Electronically Filed 2/17/2022 5:34 PM Seventh Judicial District, Lemhi County Brenda Armstrong, Clerk of the Court By: Jana Eagle, Deputy Clerk

IN THE DISTRICT COURT OF THE SEVENTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF LEMHI

JAMES WHITTAKER, an individual, and WHITTAKER TWO DOT RANCH LLC, an Idaho limited liability company,

Case No. CV30-21-0304

Petitioners,

VS.

THE IDAHO DEPARTMENT OF WATER RESOURCES, an administrative agency of the State of Idaho,

Respondent.

IN THE MATTER OF APPLICATION FOR TRANSFER NO. 84441 IN THE NAME OF BRUCE AND GLENDA MCCONNELL

SETTLED AGENCY HEARING TRANSCRIPT ON APPEAL

Judicial Review from the Idaho Department of Water Resources Honorable Eric J. Wildman, District Judge, Presiding

GARRICK BAXTER, ISB No. 6301 MARK CECCHINI-BEAVER, ISB No. 9297

Deputy Attorneys General P.O. Box 83720 Boise, Idaho 83720-0098 garrick.baxter@idwr.idaho.gov mark.cecchini-beaver@idwr.idaho.gov

Attorneys for Respondent

Robert L. Harris, ISB No. 7018 Luke H. Marchant, ISB No. 7944 HOLDEN, KIDWELL, HAHN &CRAPO, P.L.L.C. P.O. Box 50130 Idaho Falls, ID 83405 rharris@holdenlegal.com efiling@holdenlegal.com

Attorneys for Petitioners James Whittaker and Whittaker Two Dot Ranch LLC Chris M Bromley, ISB No. 6530 Candice McHugh, ISB No. 5908 McHUGH BROMLEY, PLLC 380 S. 4th St., Ste. 103 Boise, ID 83702 cbromley@mchughbromley.com cmchugh@mchughbromley.com

Attorneys for Bruce and Glenda McConnell

DEFORE THE DEPARTMENT OF WATER RESOURCES OF THE STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR)	Docket No
TRANSFER NO. 84441 IN THE NAME OF)	
BRUCE AND GLENDA MCCONNELL)	
	_)	

TRANSCRIPT OF RECORDED HEARING VOLUME I (Pages 1-409)

BEFORE

HEARING OFFICER: JAMES CEFALO

Date: April 21, 2021; 10:20 a.m.

Location: BLM/U.S. Forest Service Office

Salmon, Idaho

TRANSCRIBED BY:

JEFF LaMAR, C.S.R. No. 640

Notary Public

1	APPEARANCES:
2	
3	
4	
5	For Applicants Bruce and Glenda McConnell:
6	McHUGH BROMLEY, PLLC
7	BY MR. CHRIS M. BROMLEY
8	MS. CANDICE M. McHUGH (Telephonically)
9	380 South Fourth Street, Suite 103
10	Boise, Idaho 83702
11	cbromley@mchughbromley.com
12	cmchugh@mchughbromley.com
13	For Protestants James Whittaker and Whittaker Two Dot
14	Ranch:
15	HOLDEN KIDWELL HAHN & CRAPO, PLLC
16	BY MR. ROBERT L. HARRIS
17	1000 Riverwalk Drive, Suite 200
18	Idaho Falls, Idaho 83402
19	rharris@holdenlegal.com
20	For Protestant David R. Tomchak:
21	MANWARING LAW OFFICE, PA
22	BY MR. KIPP L. MANWARING
23	2677 East 17th Street, Suite 600
24	Idaho Falls, Idaho 83406
25	kipp@manwaringlaw.com

1	APPEARANCES (Continued):
2	
3	For Protestant Smith 2P Ranch
4	MS. SHANNA FOSTER, PRO SE
5	213 Grady Road
6	Leadore, Idaho 83464
7	shanudy@yahoo.com
8	For Protestant Steven L. Johnson:
9	MR. STEVEN L. JOHNSON, PRO SE
LO	1019 Lee Creek Road
L1	Leadore, Idaho 83464-5011
L2	stevenjohnson01056@gmail.com
L3	Also Present:
L4	Cindy Yenter, IDWR
L5	
L6	
L7	
L8	
L9	
20	
21	
22	
23	
24	
25	

1	INDEX	
2		
3	WITNESSES	
4	TESTIMONY OF BRUCE McCONNELL	PAGE
5	Direct Examination by Mr. Bromley	26
6	Cross-Examination by Mr. Manwaring	39
7	Cross-Examination by Mr. Harris	57
8	Examination by The Hearing Officer	75
9	Redirect Examination by Mr. Bromley	82
10	Recross-Examination by Mr. Harris	90
11		
12	TESTIMONY OF SCOTT KING	
13	Direct Examination by Mr. Bromley	97
14	Cross-Examination by Mr. Manwaring	130
15	Examination by The Hearing Officer	153
16	Cross-Examination by Mr. Harris	156
17	Redirect Examination by Mr. Bromley	177
18	Recross-Examination by Mr. Manwaring	184
19	Recross-Examination by Mr. Harris	189
20		
21	TESTIMONY OF CINDY YENTER	
22	Direct Examination by Mr. Bromley	191
23	Cross-Examination by Mr. Manwaring	219
24	Cross-Examination by Mr. Harris	240
25	Redirect Examination by Mr. Bromley	262

ſ	-	1
1	I N D E X (Continued)	
2		
3	WITNESSES	
4		
5	TESTIMONY OF MERRITT UDY	PAGE
6	Direct Examination by Mr. Harris	266
7	Cross-Examination by Mr. Bromley	274
8	Cross-Examination by Mr. Manwaring	278
9	Examination by The Hearing Officer	282
10	Redirect Examination by Mr. Harris	285
11	Recross-Examination by Mr. Bromley	287
12		
13	TESTIMONY OF JORDAN WHITTAKER	
14	Direct Examination by Mr. Harris	291
15	Cross-Examination by Mr. Bromley	319
16	Cross-Examination by Mr. Manwaring	340
17	Examination by The Hearing Officer	347
18		
19	TESTIMONY OF LARRY BORSTELMAN	
20	Direct Examination by Mr. Harris	352
21	Cross-Examination by Mr. Bromley	355
22	Cross-Examination by Mr. Manwaring	361
23	Examination by The Hearing Officer	367
24	///	
25	///	
i.		

		1
1	I N D E X (Continued)	
2		
3	WITNESSES	
4		
5	TESTIMONY OF JAMES WHITTAKER	PAGE
6	Direct Examination by Mr. Harris	369
7	Cross-Examination by Mr. Bromley	381
8	Cross-Examination by Mr. Manwaring	398
9	Examination by The Hearing Officer	400
10	Further Cross-Examination by Mr. Bromley	405
11	Cross-Examination by Ms. Foster	407
12		
13	EXHIBITS	
14	NO.	ADMITTED
15	1-20	10
16	22-24	10
17	154-161	10
18	301-312	10
19		
20		
21		
22		
23		
24		
25		

1 (Begin transcription at 0:20 of audio 2 file.)

THE HEARING OFFICER: Good morning. My name is

James Cefalo from the Eastern Regional Office of the

Idaho Department of Water Resources. I will serve as

the Hearing Officer today on behalf of the Department.

Cindy Yenter, who is an Analyst 4 with the Department and works in the field office here in Salmon is assisting me with the hearing. I wanted to make it clear on the record that Ms. Yenter is assisting me with the recording equipment and the logistics of the hearing. She will not be involved in the decision-making for the case. She has been identified as a potential witness in this case and may be called to testify during the hearing. Because she's a potential witness, as I just -- I thought that it was important on the record to confirm that her assistance with me up here is really just to manage the recording equipment.

So the purpose of this hearing is to receive evidence and testimony in connection with application for transfer 84441 filed in the name of Bruce and Glenda McConnell, which has been protested. The hearing will be conducted in compliance with the application provisions of Chapter 2, Title 42, and

1	Chapter 52, Title 67 of the Idaho Code, and the
2	Department's Rules of Procedure.
3	The hearing is beginning on Wednesday,
4	April 21st, 2021, at 10:20 a.m. at the BLM/U.S. Forest
5	Service combined office in Salmon, Idaho.
6	Present at the hearing today we have the
7	applicants, Bruce and Glenda McConnell, and their
8	attorney, Chris Bromley, and Candice McHugh is on the
9	phone, and a consultant, Scott King.
10	We also have Protestants James Whittaker
11	and Whittaker Two Dot Ranch, who is also Jordan
12	Whittaker, James' son. And they're represented by
13	Attorney Rob Harris, and have a consultant, Bryce
14	Contor.
15	We also have protestant Dave Tomchak and
16	his wife, Laura, and their attorney, Kipp Manwaring, is
17	here also.
18	And we also have protestant Shanna Foster,
19	who is here on behalf of Smith
20	MS. FOSTER: 2P Ranch.
21	THE HEARING OFFICER: 2P Ranch. Right?
22	Okay.
23	And we are missing currently one two of
24	our protestants. We are missing Protestant Rosalie
25	Ericsson and Steven Johnson. And by not being here at

1 the start of the hearing, and in fact 20 minutes after the start of the hearing, they -- you know, what 2 they're doing is waiving their ability to cross-examine 3 4 witnesses and really participate in this hearing. As Hearing Officer, I will take official notice of the Department's file for Application for 6 7 Transfer 84441, any past decisions or orders of the 8 Department that may be relevant to this contested case, 9 the Department's water right records, and any reports, 10 measurements, or stream-flow records in the 11 Department's files that may be relevant. We haven't 12 identified any specific documents that way, though. 13 And the -- our rules of procedure require those to be 14 identified by the hearing. 15 And so prior to the hearing the parties 16 reviewed and proposed -- I'm sorry, reviewed the 17 proposed exhibits and stipulated that the following exhibits should be admitted into the administrative 18 19 record for this case. And that would be Exhibits 1 through 20, 22, 23, and 24, and Exhibits 154 through 20 161, and Exhibits 301 through 312. 21 I'll open it up. Do any of the parties 22 have any concerns or did I misstate any of those 23 24 numbers?

Hearing none, then those -- those exhibits

25

1 are admitted into the administrative record at this 2 time. (Exhibits 1-20, 22-24, 154-161, and 301-312) 3 admitted.) 4 5 THE HEARING OFFICER: Prior to the hearing McConnell filed a motion in limine requesting that the 6 Hearing Officer exclude a portion of Exhibit 151 and 7 all of Exhibits 152 and 153, and to prevent witnesses 8 9 from testifying about the substance of the portions 10 proposed to be excluded. The motion contained McConnell's arguments 11 12 in support of the exclusion. The motion was joined in 13 part by protestant David Tomchak. Whittaker and Whittaker Two Dot Ranch, who 14 15 identified those Exhibits 151, 152, and 153, prepared a written response to the motion in limine. 16 17 provide the parties -- I have reviewed those motions and the responses, and I will provide the parties an 18 19 opportunity, though, to provide any additional 20 arguments at this time related to those motions. with a caveat that you don't need to restate what's in 21 the motion. I -- you know, that's already on the 22 record through the motion. 23 24 So, Mr. Bromley, anything more to add? Well, in looking at Rob's 25 MR. BROMLEY:

response, the motions were properly filed, were filed based on IDAPA.

THE HEARING OFFICER: Uh-huh.

MR. BROMLEY: Specifically cited Rule 600.

Mr. Harris in his response takes issue with citation to

Idaho Rules of Evidence.

But I will note that while not completely routine the Department in nearly every of the major delivery calls -- so Rangen, Surface Water Coalition, Clear Springs, Blue Lakes, as well as more recently in the Water District 63 administrative cases having to do with fill and refill of the Boise reservoirs -- took in motions in limine, and at times granted some and at times denied some.

THE HEARING OFFICER: Uh-huh.

MR. BROMLEY: So the -- you know, the notion in Mr. Harris' response at the beginning that they were somehow not properly filed, I absolutely disagree with. They certainly were properly filed. It is the type of motion that the Department does take in cases, and particularly with the delivery calls in the Water District 63 matters when you have experts providing expert testimony and expert reports.

And that was the concern with Exhibits 151, 152, 153 is that these are expert reports by an expert

witness who has been retained and paid to testify in
this matter. So those were the concerns. I find that
the -- you know, the reports were properly filed.

Mr. Harris also provided citation to some other types of reports that the Department has taken in, specifically --

THE HEARING OFFICER: Uh-huh.

MR. BROMLEY: -- some of the Basin 74 contested matters. There was a -- I think a reference to a Bureau report, and then a Cheryl Chapman report that had to do with high flow.

Those are nice documents. You know, they're documents that are in the public sphere that were available for parties to go find, bring in. The Exhibits 152, 153 are very different that way. These are, again, reports that were authored by an expert who's being paid to testify in this contested case. They're not reports in the sense that you find them in the public sphere.

You know, lastly, Exhibit 151, as we stated in the memo, the transfer was not filed to correct a clerical error. So pages 1 through 8 are -- are -- you know, just completely irrelevant to the way the transfer was filed. And I'll get into that, then, I guess with Mr. Contor when he takes the stand to

explain what he was -- what he was thinking.

Two last points.

THE HEARING OFFICER: Uh-huh.

MR. BROMLEY: The Kauer Ditch is not part of this transfer. It may be an interesting sidenote, but I -- it's not how the transfer was filed.

And then the last point is this Whittaker versus Kauer 1956 Idaho Supreme Court case that was a decision involving the Whittakers and the Kauers, it sure looks like a water rights decision to me, and was not carried forward into the SRBA. I don't see reference to it anywhere.

Mr. Harris gave a citation to the City of Blackfoot case for the proposition that the Department does not enforce private agreements. I agree with him.

But the difference that we have here is on the City of Blackfoot right, which I believe it was -- was it 1-181C? There's specific language and other conditions necessary for administration of a water right to a -- you know, an agreement, a settlement agreement, a private agreement, an agreement of some sort, to which the Department was not party, which is the reason, then, for, you know, both the Department and then the courts on up on appeal to say that it's -- it's not something that the Department enforces.

1	And that's because there's language on the
2	face of that right directing parties to an agreement.
3	Very different than the water rights that we have here
4	in this case that have an absence of language directing
5	somebody to an agreement, you know, whether it's
6	binding on anyone, whether it's private, whether it's
7	public. We just simply don't have that on on any of
8	these water rights directing anyone to understand
9	anything about an agreement between private parties and
10	I think [unintelligible].
11	So that's you know, hopefully that's
12	responsive or my reply to Mr. Harris' response. I
13	understand your ruling. And again, didn't want to just
14	completely reiterate what was in the original motion.
15	THE HEARING OFFICER: Okay.
16	MR. BROMLEY: So thank you.
17	THE HEARING OFFICER: I appreciate that.
18	Mr. Manwaring, did you have anything more
19	to add?
20	MR. MANWARING: Just to make clarification on
21	the basis of our joinder in part.
22	THE HEARING OFFICER: Uh-huh.
23	MR. MANWARING: If you'd look at Whittakers'
24	Exhibit 151, which is an injury analysis document
25	provided by their expert witness, it, in our

estimation, unnecessarily focuses upon the Whittaker versus Kauer decision that's on page 4 of that report, and makes some express statements about some clear direction regarding water rights in that decision, and then also refers to the Kauer Ditch at -- and either is an express statement or at least an inference from the report that somehow the Kauer Ditch and the Whittaker versus Kauer decision have some bearing upon the hearing today.

We see that they don't have any bearing upon this hearing. I can't understand how that can be relevant in any aspect of what you are making a determination on as relating to a change in diversion.

In addition, the Exhibit 153, which is the Whittaker exhibit, also spends a good deal of time making a hydrologist opinion determination as to the location, construction, and flow of the Kauer Ditch, which, again, isn't even at issue here.

THE HEARING OFFICER: Uh-huh.

MR. MANWARING: So I'm not sure why that's even part of the discussion.

I know that in private conversations with Mr. Harris before, it was explained that the Whittakers were just hoping to show some historic nature of water use here.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Well, this goes beyond just an historic reference to what may have happened. This goes on to an explanation of water flows, topography, and even the analysis and flow measurements that would be suggested by a kind of potentials with the Kauer Ditch. I don't see that that's relevant in any As you look in pages 4 through 8 of that exhibit, it's again, Exhibit -- let me make sure we got the right one -- Exhibit 153. And then it also makes some conclusions on page 10 of that exhibit. And again, the conclusion that's found on page 10 under Kauer Ditch, it simply is a conclusion that isn't pertinent to the facts before this Hearing Officer today as it relates to this change in a point of diversion, particularly where there's some question about observations on the use and current conditions, cross-sections, and the location and size of the weir. All of those have -- in my estimation, are immaterial to what we're doing. And I think focusing upon them is a red herring in this hearing and shouldn't be. THE HEARING OFFICER: Okay. Thank you, Mr. Manwaring. Mr. Harris?

MR. HARRIS: Yeah, briefly.

Mr. Bromley indicated that the motion -the motion in limine was brought under Rule 600. And
while his motion cited, the memorandum didn't argue
from the standard.

So my point in my brief was that -- that the evidence that we've -- that we are presenting in those reports meet the standard under Rule 600. I was not aware of the Rangen decision, District 63 decisions that Mr. Bromley referenced. Had they been in his memorandum, I could have responded. But I'm not familiar with those.

In terms of just the Kauer Ditch in general, we think that historic administration is relevant. It provides a baseline so that the Hearing Officer understands at least what was done on the ground historically.

We do make it clear, however, that we're not asking the Hearing Officer to enforce the agreement, rule on it, declare easement rights, anything of that nature.

Mr. Contor's report on page 4 states, "The Whittaker versus Kauer decision issued in 1956 provides a clear description of the operation of the Kauer Ditch and its relationship to the Whittakers' water rights

1 and the rights conveyed through the Kauer Ditch." So we're giving the Hearing Officer some 2 historic will context, which, again, we're at the 3 admissibility stage of evidence. It doesn't mean it's 4 going to go to your weight, to the weight of the 5 evidence, or be determinative. But certainly it meets, 6 I think, the initial standard of relevance. 7 We don't intend to spend a bunch of time on 8 But what Mr. Contor found is that -- that it at 9 it. 10 least appeared that in the sometime recent past that that ditch has been used, which will bolster the 11 testimony that my clients will provide for it. 12 13 But as we say in our brief, we think this 14 matter can be determined under the injury and local 15 public interest criteria in the -- outlined in the 16 code. 17 IDWR does not enforce private agreements. I could get into the detail of the Blackfoot case, but 18 19 I also think in terms of the just relevance, one of the e-mails that is included as an exhibit from McConnell 20 is an e-mail from Garrick Baxter citing that long case, 21 saying "We don't enforce private agreements," 22 specifically referring to this Kauer decision. 23 24 again, that -- it's relevant because it's in the 25 documentation.

1 And then the last thing I would say is that -- that as far as the first eight pages of 2 Mr. Contor's report, just kind of getting some 3 background on whether this was a clerical correction or 4 an oversight, in Mr. King's report he offers -- in a 5 couple different locations he says, for example, on 6 page 1, "The point of diversion was inadvertently 7 8 omitted from the water right claims filed in the SRBA." 9 And so what Bryce was asked to do was 10 simply to verify whether it was inadvertent or not. We 11 have discovery responses indicating something 12 different. Whether or not that bears on your decision 13 is up to you. But we are just trying to be responsive 14 to what's contained in the expert reports. 15 So on that basis we think they all should be admitted. 16 17 THE HEARING OFFICER: Okay. Thank you. So I've reviewed the arguments raised in 18 19 the motion and the motion joining the motion in limine, 20 and also the response filed by Whittakers. I've also reviewed Exhibits 151, 152, and 153, and find that they 21 do contain relevant information about the diversion 22 structures and the hydrology of the Stroud Creek 23 24 This information is relevant to the issues drainage. 25 presented in this contested case.

1 Therefore, I deny the motion in limine. 2 The documents in question were prepared by the consultant, Bryce Contor. And so these exhibits will 3 need some foundation laid by Mr. Contor before they'll 4 5 be admitted, and there may be some -- some other objections not related to relevance that could be 6 7 raised at that time. So we'll save that for the time when 8 9 Protestants Whittakers present their evidence. 10 And I do want to note, though, for those 11 people that may not be familiar with the Department's 12 Rules of Procedure, that even if exhibits are admitted into the record, it does not mean that I as the Hearing 13 Officer will find them persuasive in deciding the case. 14 15 And in fact, Rule 600 of the Department's 16 Rules of Procedure makes it clear that I can employ my 17 experience, technical competence, and specialized knowledge in evaluating evidence -- in evaluating the 18 19 evidence admitted into the administrative record. So with that, we will move on. 20 Prior to the hearing -- did we already talk about admitting all 21 22 the other? I think I did. 23 UNIDENTIFIED SPEAKER: The exhibits, we did, 24 yes. THE HEARING OFFICER: On the record I think I 25

1	did talk about admitting all the other exhibits.
2	UNIDENTIFIED SPEAKER: Yeah.
3	THE HEARING OFFICER: Okay. So then we could
4	turn now to the presentation of evidence by the
5	applicant.
6	MR. HARRIS: I have
7	THE HEARING OFFICER: That's fine, Mr. Harris.
8	What do you have?
9	MR. HARRIS: I just want to make sure the record
10	is clear. I think what I heard you say is because
11	Mr. Johnson wasn't here at the start of the meeting he
12	can't participate.
13	THE HEARING OFFICER: No.
14	MR. HARRIS: He's now here.
15	THE HEARING OFFICER: He's now here. That I
16	should note that on the record.
17	Thank you, Mr. Johnson. I apologize if
18	there was some miscommunication, the change in venue.
19	We'd sent an e-mail, but you may not be somebody who
20	checks an e-mail every five minutes like some other
21	people in this room. So I appreciate you being here.
22	We're also still missing, though,
23	Protestant Rosalie Ericsson.
24	MR. HARRIS: Right.
25	THE HEARING OFFICER: I had just noted that by

```
1
    not being here in person, you waive that ability to
 2
    participate in the hearing. But now that you're here,
 3
    we'll let you cross-examine witnesses, as any of the
    other parties may. And when we get to that part of the
 4
 5
    hearing, you can make a statement on your own behalf,
    too, Mr. Johnson.
                       Thanks.
 6
 7
           MR. BROMLEY:
                          Just to make the record clear,
    then, Mr. Cefalo, so at 10:20 you stated that both
8
    Steven Johnson and Rosalie Ericsson, because they were
9
    not present, had waived their ability to participate.
10
11
           THE HEARING OFFICER:
                                  I apologize if I misstated
12
           I just meant by not being here they effectively
13
    are waiving their ability to participate in the
14
    hearing. But now that Mr. Johnson is here, he can
15
    participate in the hearing.
16
           MR. BROMLEY: Okay. And I'm just making the
17
    record clear, then --
18
           THE HEARING OFFICER:
                                  I apologize, yeah.
19
           MR. BROMLEY: -- that at 10:40, 20 minutes after
20
    that the statement had been made, Mr. Johnson is now
21
    present, and you're saying he is now allowed to
22
    participate.
23
           THE HEARING OFFICER:
                                  He can.
24
           MR. BROMLEY:
                          Okay.
25
           THE HEARING OFFICER:
                                  Yes.
```

MR. BROMLEY: So then if Ms. Ericsson were to come in at any point during today or potentially tomorrow, if we're still here, would she then be able to participate?

THE HEARING OFFICER: She would, yes.

MR. BROMLEY: Okay.

THE HEARING OFFICER: I'll let her come late. I mean I don't know what her circumstances are. But of course, during the time that she's not in this hearing, there's testimony being given that is being given without -- you know, without her participation in the hearing.

MR. BROMLEY: Okay. I just want the record to be clear.

THE HEARING OFFICER: And there is an opportunity, too, I guess, for parties who do not show up at the hearing, you know, the Department's Rules of Procedure have a mechanism where those non-appearing parties can be defaulted from a hearing. And if she doesn't appear, I guess, from now until the end we can discuss that at the end, if that's something that you feel like is important that the Department take that official step to default Ms. Ericsson from this case, then, you know, I'm not opposed to that. So we can discuss that, maybe at the end, see if she shows up.

1 MR. BROMLEY: Sure. 2 THE HEARING OFFICER: Thank you, Mr. Bromley. I apologize for any misstatements. 3 So as you -- you're free, Mr. Bromley, to 4 5 provide an opening statement if you want to, to provide a roadmap for kind of how you're going to present 6 7 evidence and what your witnesses may speak to, but you don't have to. 8 9 You know, Mr. Cefalo, you are MR. BROMLEY: certainly one of the better hearing officers that the 10 11 Department has. Of course, Ms. Yenter, you are, too, when 12 13 you're serving in that capacity. 14 MS. YENTER: It's okay. 15 MR. BROMLEY: You know, I've found that the Department, you know, really is -- you all are up to 16 17 speed on these things. You've looked at the exhibits before. You understand what the issues are. 18 I -- you 19 know, I think we'd all like to get out of here --20 THE HEARING OFFICER: Great. MR. BROMLEY: -- hopefully today. And, you 21 know, I just don't see a great need to do that. 22 23 THE HEARING OFFICER: Okay. 24 MR. BROMLEY: So I appreciate the opportunity, but I -- I will waive that. 25

1	THE HEARING OFFICER: Okay.
2	MR. BROMLEY: We will be calling Bruce McConnell
3	first.
4	THE HEARING OFFICER: Great.
5	MR. BROMLEY: Scott King, who's our expert
6	second, and then Cindy Yenter in her capacity as
7	watermaster would be our third and final witness.
8	Of course, you know, reserve the right to
9	recall them if we decide we need to. But those are the
10	witnesses that we're intending to call, just to, you
11	know, Bruce will hopefully be able to lay some
12	foundation as to, you know, why we're here today, Scott
13	will provide some expert testimony, and then Cindy, her
14	observations as watermaster.
15	THE HEARING OFFICER: Excellent.
16	MR. BROMLEY: Great.
17	THE HEARING OFFICER: Okay.
18	MR. BROMLEY: So do you want to start, Bruce.
19	MR. McCONNELL: Yes.
20	MR. BROMLEY: Do you want to step up to the
21	witness stand.
22	MR. McCONNELL: Okay.
23	MR. BROMLEY: And then we've got this is our
24	book.
25	MR. McCONNELL: Okay.

1	BRUCE McCONNELL,
2	having been called as a witness by the Applicants, was
3	duly sworn and testified as follows:
4	
5	THE HEARING OFFICER: Mr. McConnell, do you
6	solemnly affirm that the testimony you're about to give
7	is the truth, the whole truth, and nothing but the
8	truth.
9	THE WITNESS: I do.
10	THE HEARING OFFICER: Okay. Have a seat.
11	And, Mr. Bromley, you can proceed with
12	examination.
13	MR. BROMLEY: Great. Thank you.
14	
15	DIRECT EXAMINATION
16	BY MR. BROMLEY:
17	Q. Hi, Bruce.
18	A. Hi, Chris.
19	Q. Bruce, would you please state and spell
20	your name for the record.
21	A. Bruce McConnell, B-r-u-c-e,
22	M-c-C-o-n-n-e-l-1.
23	Q. And, Bruce, when did you move to the
24	property on Lee Creek?
25	A. April 1993.

1	Q.	Where did you move from?
2	A.	Lincoln County, Montana.
3	Q.	And how long have you been irrigating and
4	ranching?	
5	A.	I've been irrigating for 28 years. I've
6	been ranchi	ng for 40.
7	Q.	Have you been on the Water District 74Z
8	board?	
9	А.	Yes.
LO	Q.	And what is Water District 74Z?
L1	А.	That is the Water District that administers
L2	the Lee Cre	ek, Big Eight Mile Creek water.
L3	Q.	Okay. So is that is that the drainage
L 4	you're in?	
L5	А.	Yes.
L6	Q.	All right. And how long have you been on
L7	that board	for and what positions have you held?
L8	А.	I think from '94 to 2020 I believe I served
L9	as the chai	rman.
20	Q.	And are you currently on the board?
21	А.	I don't know. I did not make the 2021
22	meeting.	
23	Q.	Is there a reason for that?
24	A.	First Monday in March I didn't get back in
25	until three	o'clock. So I was taking care of cows.

```
1
                        Okay, Bruce, you understand that
            0.
                 Okay.
    we're here in a protested application for transfer.
 2
                 Do you know the folks who have protested
 3
 4
    your transfer?
 5
            Α.
                 Yes, I do.
                 Okay. Looking at your property, Bruce, I'd
            Q.
 6
7
    just like to talk about how you used water a little
8
    bit.
9
                 So what do you use water for at your
10
    property?
11
            Α.
                 Irrigation for grazing and hay and
    livestock water.
12
13
            Q.
                 Okay. And do you flood or sprinkler
14
    irrigate?
15
            Α.
                 I flood.
16
            Q.
                 100 percent?
17
            Α.
                 Yes.
18
            Q.
                 Okay. And what do you raise on the
19
    property?
20
                 We're a cow-calf operation, beef cattle.
            Α.
21
            Q.
                 Then you irrigate pasture?
                 Pasture and hay.
22
            Α.
23
                 Okay. And how many head of cattle?
            Q.
24
                 We average about 200. Approximately we're
            Α.
    like 185 today.
25
```

1 0. And, Bruce, based on your years of 2 experience, do you consider yourself an efficient irrigator? 3 Yes, I do. 4 Α. 5 Okay. When you bought the property, Bruce, in 1993, did anyone explain to you where water was 6 diverted from? 7 Darrell Nef, who owned the property where 8 Α. the lower diversion is located, took me for a pickup 9 truck ride, showed me the lower diversion, took me to 10 11 the upper diversion. 12 And, Bruce, so the lower diversion, is that 0. 13 the diversion that we're talking about the transfer --14 Α. Yes, it is. 15 -- the section 20 diversion? Q. 16 Yes. Α. 17 Q. And then the upper diversion, that's the section 30 diversion? 18 19 A. Yes. 20 0. Okay. I just wanted to make that clear. 21 MR. HARRIS: Chris, could you just restate that and make sure [unintelligible]. 22 23 MR. BROMLEY: Sure thing, Rob. Yeah, I was just asking just to make sure that the -- when Bruce is 24 talking about the lower diversion, that's the diversion 25

1 we're talking about in this transfer proceeding. 2 MR. HARRIS: When you say "lower," lower downstream? 3 MR. BROMLEY: Correct. Yeah. 4 Yeah. Thank you. 5 MR. HARRIS: MR. BROMLEY: Further downgradient on Lee Creek, 6 7 yep. Okay. So Mr. Nef, then, was explaining 8 Q. where water was diverted from. 9 And he was the -- you said he was the prior 10 11 property owner? 12 Α. No. He owned the -- he owned the property 13 where the one diversion was at. And he had been there 14 since like 1949. He had irrigated it the previous 15 year, ran some cattle there, so... 16 0. Okay. So Mr. Nef's knowledge, then, went 17 back to approximately 1949? 18 Yes, to my understanding. Α. 19 Okay. And based on what was explained to Q. 20 you by Mr. Nef, how do you divert water from Lee Creek today? And is it any different than what was explained 21 to you by Mr. Nef? 22 23 It's -- we're -- we're not Α. Today, no. 24 using the lower diversion today. But no, we -- we had used the water, diverted the water since 1993 through 25

1	August 2020 using both diversions.
2	Q. Okay. Thank you.
3	So do you need both ditches to irrigate
4	your property with?
5	A. Yes, I do.
6	Q. And so by not being able to use the lower
7	diversion acre, you would have or have you taken
8	acres out of production?
9	A. Yes.
10	Q. Okay. So, Bruce, let's talk a little bit
11	about this transfer. And if you wouldn't mind, you've
12	got that exhibit book in front of you, if you could
13	turn to Exhibit 4. Just look quickly at that, and then
14	also just have a quick look at Exhibit 5.
15	Do you recognize those letters, Bruce?
16	A. I do the first one. I don't recall the
17	second one.
18	Q. Okay. Well, let's talk about a little
19	bit about Exhibit 4. So you had mentioned you had
20	stopped using the lower diversion in August of 2020.
21	Why was that?
22	A. Letter I received an e-mail from Cindy
23	Yenter, and a letter following up days later.
24	Q. And Exhibit 4, is this letter
25	A. Yes.

1	Q that you were talking about?
2	Okay. And what does the letter explain in
3	Exhibit 4?
4	A. It came you know, that it's it was an
5	illegal diversion and we need to cease using it.
6	Q. Okay. Exhibit 5, do you see whose name is
7	at the top there on Exhibit 5?
8	A. Yes.
9	Q. And who is Merritt Udy?
10	A. He is the watermaster on 70 he was the
11	watermaster in 2020 on 74Z.
12	Q. Okay. And the date of that letter is what
13	up there at the very top?
14	A. August 6th, 2020.
15	Q. Okay. And if we look at Exhibit 4, what
16	was the date of that letter?
17	A. August 6th.
18	Q. Okay. And I see Merritt Udy was copied on
19	this Exhibit 4 letter.
20	Do you see that at the bottom?
21	A. Yes.
22	Q. Okay. So then Exhibit 5, this is a
23	letter I see Cindy's signature on the second page,
24	and I see it's addressed to Merritt.
25	Do you see that second paragraph on the

1 first page starting with "Mr. McConnell"? 2 Α. Yes. It says, "Mr. McConnell has agreed 3 0. Okay. 4 verbally to close the diversion and has been instructed in writing to complete the closure no later than 5 Friday, August 7, 2020." 6 7 Do you see that? Α. 8 Yes. 9 Did you follow those instructions? 0. 10 Α. Yes. Okay. All right. So you then had 11 Q. 12 instructions from Cindy with letters, and then it sounded like verbal instructions, to close the lower 13 diversion. 14 15 And you -- and you did that? 16 Α. Yes. 17 Q. Okay. So then Exhibit 8, if you could turn This is the -- the exhibit of the transfer, 18 19 which, of course, is part of the Department's files. 20 But it just seemed helpful to have the document as a specific document as an exhibit. 21 22 Do you -- do you recognize this application 23 for transfer, Bruce? 24 Α. Yes. And it -- was this filed -- I mean, you 25 Q.

1	know, we can go to the second page.
2	Do you see your signature there?
3	A. Yes.
4	Q. As your understanding, was this filed to
5	help address the concerns that were raised by Cindy?
6	A. Yes.
7	Q. Okay. Okay. Bruce, we had some
8	pre-hearing rulings from the Hearing Officer that I
9	know you heard speaking to some of the contents of the
10	expert reports from the Whittakers' side. So I'm going
11	to ask you some questions, then, that have to do with a
12	little bit of the topics in those reports, if that's
13	okay.
14	All right. So you understand that the
15	there were protests filed against you by the
16	Whittakers; correct?
17	A. Yes.
18	Q. And what did those protests explain, if you
19	remember?
20	A. You know, I really don't recall. You know,
21	I get you know, I'm not I'm not sure.
22	Q. Okay. And, you know, we could look at
23	them, but do you recall they wanted you to withdraw the
24	application and there were references to Kauer Ditch?
25	A. Yeah.

1	Q. Sound about right?
2	A. Yeah.
3	Q. Okay. Have you ever heard the Whittakers
4	discuss this 1956 Idaho Supreme Court case called
5	Whittaker versus Kauer?
6	A. Not that I can recall.
7	Q. Okay. Exhibit 22, if you could turn to
8	that.
9	What's Exhibit 22?
10	A. A warranty deed to the property we own on
11	Lee Creek.
12	Q. Okay. And do you see anything in
13	Exhibit 22 that references any sort of agreement or
14	encumbrance on the part of of anybody dealing with
15	an Idaho Supreme Court case or any kind of agreement?
16	A. No.
17	Q. Okay. Let's look at Exhibit 23, then.
18	What's Exhibit 23?
19	A. It's a copy of the title insurance received
20	when we purchased the property.
21	Q. Okay. And I now, turn, then, to the
22	second page, which is Schedule A.
23	It looks like you bought the property in
24	fee simple on line 2?
25	A. Yes.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Anything on Schedule A that you see 0. Okay. that references an agreement with the Whittakers or a reference to an Idaho Supreme Court case? Α. No. Schedule B, which would then be 0. All right. the third and fourth pages of that exhibit. These are the exceptions to the title policy, the land that you bought in fee simple absolute. And we have enumerated exceptions 1 through 16. In any of those exceptions, do you see anything that would alert you to any prior agreements or reference to an Idaho Supreme Court case dealing with Whittakers or this Whittaker versus Kauer case? Α. No. Are you familiar with your water rights, 0. Bruce? Α. Yes. Are you familiar with anything on 0. the face of your water rights that would explain an agreement with the Whittakers with reference to an agreement or this Idaho Supreme Court case? Α. No. The transfer that you filed, Bruce, is to Q. add an Exhibit A, it shows it was to add this lower

diversion; is that correct?

1	A. Yes.
2	Q. Does it have anything to do with the Kauer
3	Ditch?
4	A. No.
5	Q. Let's look back at Exhibit 5.
6	And in the one, two, three the fourth
7	paragraph below the two bullets, starting "Based on the
8	investigation," do you see that paragraph?
9	A. Yes.
10	Q. Do you see a reference to a Water Right
11	74-157?
12	A. Yes.
13	Q. Okay. And there are a few other.
14	Do you see another reference to it in the
15	third bullet below that? Do you know anything about
16	this Water Right 74-157?
17	A. I was not aware of it until July of 2020
18	that it even existed.
19	Q. Okay.
20	A. All the records I have showed no 74-157.
21	Q. And so when you say "all the records," what
22	records are you talking about?
23	A. I was received from Cal Whittaker a copy
24	of all the water rights on Lee Creek and, you know, a
25	list of handwritten mostly of who they where they

1 were and who they were at the time. So it was, you know, probably 1994, and this was -- you know, the 2 handwritten with priority dates and diversion points 3 and, you know, place of use. 4 5 And was that in your capacity as chair of Water District 74Z? 6 7 Α. It was -- you know, I don't remember how long I'd been in possession. You know, like I said, it 8 goes back to probably '93/'94. 9 Okay. So those records, then, from '93/'94 10 Q. until this August 6th of 2020, you're -- what you're 11 12 testifying to is that you hadn't seen a reference to 13 the --Never knew it existed. 14 Α. 15 MR. BROMLEY: Okay. That is all I have. 16 THE HEARING OFFICER: Okay. So we can work our 17 way around the room. 18 Mr. Johnson, did you have any questions for 19 Mr. McConnell? 20 MR. JOHNSON: Not at this time, I don't. 21 THE HEARING OFFICER: Okay. Mr. Manwaring? 22 23 MR. MANWARING: Yes. 24 THE HEARING OFFICER: Go ahead. 25 MR. MANWARING: Thank you.

1	CROSS-EXAMINATION
2	BY MR. MANWARING:
3	Q. Is it okay if I call you "Bruce"?
4	A. Yes.
5	Q. It's better than what your mom calls when
6	you're in trouble; right?
7	A. Right. Right.
8	Q. Bruce, did you ever have a water right on
9	Stroud Creek?
10	A. I had a water right on Lee Creek.
11	Q. So not on Stroud Creek?
12	A. Well, Stroud Creek is a tributary to Lee
13	Creek. The old water rights refer to Left Fork Lee
14	Creek, Right Fork Lee Creek.
15	Q. What may help us, Rob, if you have your
16	Google Earth that you can illustrate, so we can kind of
17	get a better sense where we're at.
18	MS. YENTER: I think you just turned the you
19	may have shut the slider on the light too.
20	THE HEARING OFFICER: I pulled the slider too.
21	MS. YENTER: Yeah.
22	MR. MANWARING: Looks like the snow start so
23	far.
24	MR. HARRIS: It's got to warm up. Sorry about
25	that.

```
1
           UNIDENTIFIED SPEAKER: May I turn off these
 2
    front lights?
           THE HEARING OFFICER:
 3
                                  Yeah.
                                          Sure.
           MS. YENTER: Yeah, if you can figure them out.
 4
 5
    Sure.
 6
           MR. HARRIS: So two programs. This is RGIS that
7
    has some water right --
           MR. MANWARING: I'm looking for the -- like a
8
9
    Google Earth [unintelligible].
10
           UNIDENTIFIED SPEAKER:
                                   [Unintelligible.]
11
           UNIDENTIFIED SPEAKER:
                                   [Unintelligible.]
12
           MR. HARRIS: And then here is -- here is Google.
13
           THE HEARING OFFICER:
                                  There we go.
14
           MS. YENTER:
                         There we go.
15
           MR. MANWARING:
                            There we go.
16
           THE HEARING OFFICER:
                                  That's good.
17
           MS. YENTER:
                        Yeah.
18
           MR. HARRIS:
                         Okay. So this is the -- I'm going
19
    to forget her name.
                          Cal Whittaker, Rosalie Ericsson's.
20
           THE WITNESS:
21
           MR. HARRIS: Ericssons.
                            If you go out a little bit more.
22
           MR. MANWARING:
23
    Right. Yeah, right there is good.
24
           MR. HARRIS:
                         Okay.
                            Now, Mr. Hearing Officer, I
25
           MR. MANWARING:
```

```
1
    don't know -- it may be more helpful for me to walk up
 2
    and point out places --
           MS. YENTER: Do you have a pointer?
 3
           MR. MANWARING: -- just so we can orient
 4
 5
    everybody to where we're at.
           THE HEARING OFFICER: Feel free to come on up.
 6
7
    That's fine.
8
           MR. MANWARING:
                            Okay.
           THE HEARING OFFICER: At one point we had a
9
    laser pointer in here. I don't know if we still do.
10
    We don't.
11
                That's okay. Come on up if you'd like.
12
           MR. MANWARING:
                            I have a finger pointer.
13
           THE HEARING OFFICER:
                                  That's good.
14
           UNIDENTIFIED SPEAKER: I might have a laser.
15
           MS. YENTER:
                         There you go.
16
                 (BY MR. MANWARING): My intention, just to
           0.
17
    make sure we're all oriented as what we're talking
    about in this drainage up there with the different
18
19
    creeks.
20
                 Okay?
21
           A.
                 Okay.
                 The one creek over on this side, is that
22
           0.
    Lee Creek? Would you agree with that?
23
                       That would be, I believe, what they
24
           Α.
                 Yes.
    call the Right Fork of Lee Creek.
25
```

1 0. And there's also a drainage here that's 2 Porcupine Creek? Α. 3 Yes. And does that flow into Lee Creek? 4 Q. 5 Α. It flows into the Right Fork of Lee Creek, I believe they call it, yes. 6 7 Okay. And it's roughly down through this 0. 8 section? 9 Α. Yeah. 10 And then you have over on the -- this Q. 11 illustration we're looking at the far right bottom 12 area, you have another creek that comes in that's known 13 as Everson Creek? Yeah, I -- it's -- it's also referred to as 14 Α. 15 Lee Creek, because Everson and Stroud come together, and I'm not sure what -- you know, whether they call it 16 17 Stroud Creek or whether they call it the Left Fork of 18 Lee Creek. 19 Q. Okay. 20 Α. I'm not sure. 21 Q. You're not sure. But there is an Everson Creek out here that comes --22 23 No, I think it's farther up, but --Α. 24 Q. Okay. -- I was going to say, I'm not -- you know, 25 Α.

1	it's yeah.
2	Q. And it joins into Stroud Creek?
3	A. Yes, I believe so.
4	Q. And then Stroud Creek is the one that
5	continues on down and has a confluence with Lee Creek?
6	A. Yes.
7	Q. Okay. So those are the four main
8	tributaries that we're talking about?
9	A. Yes.
10	Q. And my earlier question to you was if
11	you've ever had a water right that said it was on
12	Stroud Creek.
13	I think your testimony was it was Lee Creek
14	or Right Fork Lee Creek?
15	A. I I believe that
16	MR. BROMLEY: Objection. The water rights speak
17	for themselves.
18	THE HEARING OFFICER: Noted on the record.
19	You can answer that, Mr. McConnell.
20	THE WITNESS: I I believe they refer to
21	Everson, Stroud, mostly the Left Fork of Lee Creek.
22	Q. (BY MR. MANWARING): Okay.
23	A. Yeah.
24	Q. So while you're sitting here, do you know
25	your water rights that you're talking about that you

1	want to change the diversion on, does that say Right
2	Fork Lee Creek or just say Lee Creek?
3	A. Lee Creek.
4	Q. Lee Creek. Okay. And is it in your mind
5	that that Lee Creek constitutes all of this drainage?
6	A. Yes.
7	Q. Okay. That's what you're saying?
8	A. That's my understanding.
9	Q. That's your understanding. Okay. And your
10	diversion, what you talked about the upper diversion
11	and the lower diversion
12	A. Yes.
13	Q was that lower diversion upstream from
14	the confluence of Stroud Creek?
15	A. No.
16	Q. It was below Stroud Creek?
17	A. It would be downstream, yes. You know,
18	because those two converge somewhere, you know,
19	upstream from the lower diversion.
20	Q. Okay. And your current request, your
21	current application is to request a diversion further
22	below that lower diversion?
23	A. No, no, no, no. It's just the lower
24	diversion was not a legal diversion; it was not carried
25	through the SRBA. So we're trying to reinstate it.

1 So you're trying to establish what you had Q. thought was a lower diversion that you had? 2 Right, right. 3 Α. Okay. And you're saying that is below the 4 Q. confluence of Stroud Creek? 5 6 Α. Yes. 7 Q. Okay. At this time. 8 Α. 9 Q. Okay. 10 I don't know what's happened over the last Α. century, but... 11 12 MR. MANWARING: Can we enlarge it a little bit 13 up in this section up here, Rob? 14 MR. HARRIS: Are you wanting to see where the 15 diversion points are at? 16 MR. MANWARING: No. 17 MR. HARRIS: Okay. MR. MANWARING: Just the general lay of --18 19 Can you identify, Bruce, looking at this Q. 20 illustration, as to where your -- say let's say where you're flood irrigating your pasture at, where would 21 22 that be? 23 It would be --Α. Okay. 24 MR. HARRIS: We got to zoom out. THE HEARING OFFICER: 25 Way out.

```
1
            THE WITNESS:
                          We got to go out.
                                              Yeah, we're
    probably -- okay. I would say we're right in there is
 2
    going to be where we start the pasture, I would say,
 3
 4
          That's -- yes.
                           So yeah, this -- if you move the
    yes.
    pointer up to the left a little bit, right -- kind of
 5
    right in there, that's -- that's the -- you know, where
6
7
    we start it, that's pasture we irrigate.
            Q.
                 (BY MR. MANWARING): Okay. And your
8
    diversion comes down here and takes the water out of
9
    Lee Creek, from our discussion today, what you're
10
    saying is Lee Creek; right?
11
12
           Α.
                 Right.
13
            Q.
                 And it runs that direction?
14
           Α.
                 Yes.
15
                 That's mostly like an east, northeast
            0.
    direction?
16
17
           Α.
                 Yeah.
                        I'm not sure.
18
            0.
                 Sufficiently it's not running west anyway,
19
    we know that much?
20
            Α.
                 No, no, no.
21
            Q.
                 Okay.
                 But it's just...
22
            Α.
23
            Q.
                 Okay. And is this where your -- like your
    hay would be?
24
25
           Α.
                 Farther -- they need to go up.
```

1 Q. Further up? 2 Α. Yes, yes. 3 0. Okay. You know, kind of up and over to the right, 4 Α. I believe. 5 6 UNIDENTIFIED SPEAKER: Yes. 7 (BY MR. MANWARING): Okay. Now, this --0. 8 this --Zoom back in? 9 MR. HARRIS: 10 (BY MR. MANWARING): -- area right here, Q. right there, what -- is this part of your -- is that a 11 12 stream channel, or is that a ditch you -- that's on 13 your land? Do you know? I believe that is a ditch. 14 15 UNIDENTIFIED SPEAKER: [Unintelligible.] 16 0. (BY MR. MANWARING): And is this part of 17 the stream channel, this other looked like a channel through there? 18 19 Α. Can we zoom down a little bit? 20 Okay. I -- I -- I was -- okay. I believe this is the lower ditch. I believe this is the stream. 21 I'm not sure. It's not -- it's not real clear. 22 23 No, I agree with you on that. Q. We're just trying to get a fair idea where we're at. And I'm just 24 trying to help myself understand what you have in mind 25

```
1
    when you're talking about where your property is and
 2
    where your water diversions are.
                 Is this -- is this land yours, too, this?
 3
                 No.
                      I believe that is -- I believe that is
 4
           Α.
    the -- to the left there, I believe, is BLM, and then
 5
    to the right would be Darrell Nef's property, Steven
 6
7
    Johnson property.
                         So just for the record, if this
8
           MR. HARRIS:
    helps: The red area, I believe, is your property;
9
10
    right, Mr. McConnell? Does that look about right?
11
           THE WITNESS:
                          Yeah.
12
           MR. HARRIS: I zoomed in way too far.
                                                    There we
13
    go.
                 So the red dot is the lower point of
14
15
    diversion, the one you're trying to add.
16
                 The black line is the BLM property.
17
                 Mr. Johnson's property is outlined in
    this -- this kind of light blue color.
18
19
                 Does that seem about right?
20
           THE WITNESS:
                          Yeah, yeah.
21
           MR. HARRIS:
                         Okay.
                          That's much clearer.
22
           THE WITNESS:
23
           Q.
                 (BY MR. MANWARING): Roughly where
    everybody's at?
24
25
                 Yeah, yeah.
           Α.
```

1 Mr. Hearing Officer, just to make MR. BROMLEY: the record clear -- and I'm not wanting to cut anybody 2 I just want the record to be clear that -- I'm 3 all for efficiency, and so I don't have a problem with 4 5 Rob Harris, who was just making the verbal comments on the screen trying to show property boundaries during 6 Mr. Manwaring's cross-examination of Bruce. 7 I don't 8 have a problem with that. 9 I just -- since we have a recording going and we've got a new voice that's come in, I just want 10 the recording to be clear that Rob Harris was asking 11 12 questions during Kipp Manwaring's cross of Bruce. 13 THE HEARING OFFICER: I appreciate that. Thanks. 14 15 MR. BROMLEY: Thank you. 16 MR. MANWARING: We can go back to Google. 17 MR. HARRIS: Okay. 18 0. (BY MR. MANWARING): And you came onto the 19 property in the 1990s I think you mentioned? 20 Α. Yes, 1993. 21 Q. Is that when you were first familiar with this whole area? 22 23 Α. Yes. 24 And did you have any prior 0. understanding of the historical water flow that would 25

1 have been experienced in the Lee Creek area? 2 Α. Not really. Now, let's see. I'm going to show 3 0. Okay. 4 you what's an exhibit that we have. Make sure we have 5 that [unintelligible]. 307 and 309. MS. YENTER: 307 and 309. Okay. 6 7 MR. MANWARING: Now I'm distracted by a fish. Where did that fish go? 8 9 MR. HARRIS: Sorry. It happens when I do something new. We can close that up. 10 11 MS. YENTER: The humming's not bothering me too 12 It's all right. bad. (BY MR. MANWARING): Bruce, you've been 13 Q. handed an exhibit that's Exhibit 307. 14 15 Do you recognize what that's showing? 16 Yes. Α. 17 Q. What is -- what's being shown in Exhibit 307? 18 19 Okay. It was November 9th water being Α. diverted through the lower diversion, which is not --20 was not a legal diversion. 21 But it -- but this is what you're 22 0. describing at the lower diversion, that's what I'm 23 24 trying to establish. Right, right. 25 Α.

1 I'm not really trying to establish that Q. 2 you're diverting water. I'm just trying to establish where that is. 3 Α. Yes. That was -- yes, that was the lower 4 5 diversion. It was after the watermaster went off, and 6 so... 7 Okay. And is that a weir that's being Q. 8 depicted in there? 9 Α. Yes. 10 And that's on Lee Creek? Q. Well, no, it's not on -- it's -- it's 11 Α. Yes. 12 a weir on -- for Lee Creek water, yes. Oh, okay. 13 Q. THE HEARING OFFICER: But, Mr. McConnell, it's a 14 15 weir on the lower ditch? 16 THE WITNESS: Right. 17 THE HEARING OFFICER: This -- this shows water flowing in the lower ditch headed to the north? 18 19 THE WITNESS: Right. 20 THE HEARING OFFICER: Okay. 21 MR. MANWARING: Okay. THE HEARING OFFICER: Go ahead. 22 23 (BY MR. MANWARING): And Exhibit 309, do Q. you recognize what that's showing? 24 That's the diversion on the lower ditch. 25 Α.

1 Q. That's the headgate? A. 2 Yes. And is this the same point roughly we're 3 Q. 4 talking about, one's a weir, one's the headgate on that 5 lower area? Can you repeat, please? Speak a little Α. 6 clearer, louder. 7 Q. 8 Be happy to. Thank you. Exhibit 307 and 309, how close in proximity 9 are they to each other? 10 Oh, maybe 500 yards, something like that. 11 Α. 12 I'm quessing. 13 Q. Okay. And 309 being the headgate, what does that headgate control? 14 15 Α. That's the diversion on Lee Creek. So to 16 the right would be Lee Creek, to the left would be 17 ditch. Your ditch. Is this the ditch we were 18 0. 19 looking at on the illustration that flows up through 20 your fields? 21 Α. Now, run that by me again, please. Is this -- when you say "the ditch," is 22 0. that the ditch you were referring to that runs towards 23 24 your fields that we were looking at on the illustrations? 25

1 Α. It's one of the two, yes --2 Q. One of the two? -- that supply water to the -- supply 3 Α. 4 irrigation water to the property. 5 Okay. Okay. The upper diversion you were talking about earlier in your testimony, where is that 6 in relation to this lower diversion, this weir that's 7 8 in 307? 9 Oh, I'm guessing maybe a quarter of a mile Α. 10 to the south and west. Guessing. Okay. And is it the upper diversion that 11 0. 12 you've been mainly using to get water down your ditch to your pasture, to your hayfields? 13 It -- prior to August of 2020, the 14 Α. No. 15 lower diversion carried the lion's share of the water. 16 0. Okay. Did you use the upper diversion to 17 divert anything down that ditch? We used -- we've -- yes, we've -- you know, 18 Α. 19 the upper ditch doesn't carry the water. Use it every 20 year, except in a couple of really super short water years, we have shut that top diversion off to put 21 together enough water to try to have something to do 22 there. So we have used -- you know, historically 23 24 95 percent of the year we use both diversions, you

know, season long.

25

1 When you say you shut the upper 0. Okay. 2 diversion off, can you help me understand what you're meaning by that? 3 We put the water back in the creek to catch 4 Α. it at the lower diversion. So then some real short 5 water years, you split the water, you don't have enough 6 7 to do anything with. Q. Okay. Now I understand what you're telling 8 9 us. 10 Have you tried using just the upper 11 diversion to get water down to your fields? 12 Α. Well, we have since August of 2020, yes, that's what we're using. But no, it doesn't -- you 13 14 know, it's through the last -- through the -- I think 15 we're maybe one-and-a-half cfs is about the most water 16 that was recorded through that upper diversion. 17 Is there any way you can run a little ditch Q. from the upper diversion that goes into your -- the 18 19 lower one that's been used from the south diversion 20 point? 21 Well, the upper diversion won't carry the Α. It's just -- it's not -- there's something 22 water, no. happens with the -- no, there's just not -- a person 23 24 could -- yeah, you could catch -- you could catch -- we

can dump water from the top ditch down into the lower

25

1 ditch, yes. You could. Okay. What you're saying is 2 Q. you haven't been experiencing enough head flow of water 3 4 from the upper diversion? No, there's not the water there. 5 I'm going to hand you Exhibit 306. Q. 6 7 UNIDENTIFIED SPEAKER: [Unintelligible.] MR. MANWARING: [Unintelligible] young 8 9 [unintelligible]. 10 So you've been handed Exhibit 306, Bruce. Q. 11 Do you recognize what that's showing? 12 Yes. That's the measurement device on the Α. 13 upper ditch. 14 0. So this would be the weir on the upper 15 ditch? 16 Α. Right. 17 Q. And this is what you've referred to as the upper diversion? 18 19 Α. Yes. And from your looking at Exhibit 306, what 20 0. you're saying is from that weir that you can't get 21 enough water flow through that upper diversion to get 22 down to your field; is that what you're saying? 23 24 Well, it's what -- it has historically not Α. carried enough water to -- no. Yeah, it's -- it's --25

1 that was -- that upper diversion irrigates one part, 2 and then it goes over across the road. And, you know -- you know, crosses the road into another piece 3 4 of property. But no, there's not enough -- in my experience, you know, from basically I'm speaking from 5 August of 2020, you know, so it's a rather short period 6 7 of time. Okay. So you've got a limited experience 8 Q. 9 in seeing what you can transfer through that upper 10 diversion? 11 Α. Right. 12 And I think your testimony was before 0. August 2020 you were primarily, if not exclusively, 13 using the lower diversion? 14 15 Α. Yes. In a -- in a couple different years we used the lower diversion exclusively. 16 17 Q. Okay. 18 You know, later season. Α. 19 Okay. I don't have any other MR. MANWARING: 20 questions of Bruce. 21 Thank you. THE HEARING OFFICER: Okay. Mr. Harris. 22 23 Let me -- we're working around. 24 Ms. Foster, anything. I don't have anything. 25 MS. FOSTER:

1	THE HEARING OFFICER: Okay. Mr. Harris?
2	MR. HARRIS: Let me turn this back on.
3	
4	CROSS-EXAMINATION
5	BY MR. HARRIS:
6	Q. Mr. McConnell, I've I've taken notes of
7	your testimony, so I apologize if I jump around a
8	little bit, but I just want to clarify some of your
9	testimony today.
10	A. Can you speak up a little bit, please?
11	Q. Yeah. Do you need me to get a little
12	closer?
13	A. No, no, just
14	Q. Okay. I just want to clarify a little bit
15	of your or some of your testimony. And the first
16	thing I think we'll do is just kind of orient us around
17	your diversions.
18	Maybe we can how much water are you
19	entitled to divert to your property? Do you know?
20	A. 15.2 cfs, I believe.
21	Q. Okay. Does the lower ditch have the
22	capacity to carry all 15.2 cfs?
23	A. No. It will probably carry maybe 12, 13.
24	You know, this is this is a guesstimate. Yeah.
25	Q. And the upper ditch, any estimate on what

1 it could carry? 2 Α. 4, 5, 6, maybe. You mentioned a Mr. Nef. 3 0. Is that spelled N-e-f? 4 I believe it was two -- I'm not sure if 5 Α. there was two "f's" or one "f." 6 7 Do you know when he owned what is now your 0. property? 8 9 Α. He never owned our property. 10 What -- how was he familiar with Q. Okay. water distribution in this location? 11 12 Α. The lower diversion was on his place approximately 3, 400 yards from his residence. And he 13 had -- when we looked at the place to purchase in 1992, 14 15 he was irrigating the place and running live -- his livestock there. 16 17 Q. So did he own or operate what's now the Steven Johnson property? 18 19 Α. Yes. 20 0. Okay. Could you just give me some more detail on the conversations you had with him. 21 Just took a ride in his pickup truck, Α. 22 showed me, "Okay, this is where the top diversion's at. 23 This is where the bottom diversion's at." 24 So when you say "the top diversion," you're 25 Q.

1 talking with the upper -- your upper and lower 2 diversion; is that right? 3 Α. Right. Right. Did he take you on a drive further up the 4 Q. 5 Stroud Creek drainage or anywhere else? Α. No. 6 7 So it was pretty limited to just --0. Took -- yeah, took it to this -- this 8 Α. 9 diversion right -- that's as far as we went was -would have been this one right here, our well, yeah. 10 11 Yeah, that was... 12 THE HEARING OFFICER: The upper ditch? 13 THE WITNESS: Right. 14 0. (BY MR. HARRIS): Okay. And when you 15 purchased the property, how did you find out about Water District 74Z? 16 17 Α. I was just handed -- the realtor give me a copy of water rights, you know, showing what water was 18 19 deeded or came with the place. 20 0. But you eventually became aware there was 21 an organized water district that elects a watermaster; is that right? 22 23 Yes, sometime probably -- would have been Α. sometime in '94, probably. 24 25 Q. And you say you served on that advisory

1	committee or on the board of that water district?
2	A. Yes.
3	Q. Did you at that time did you meet
4	Mr. James Whittaker or anyone from his family?
5	A. I'm he attends every water meeting,
6	every yeah, he attended every 74Z water meeting, so
7	yes.
8	Q. Did you, as part of that role, did you try
9	to familiarize yourself with the water rights that were
10	delivered to that water district and how and how
11	historically they were administered?
12	A. No.
13	Q. What did you do, then, as in your role
14	on the board?
15	A. Basically, just ran the meeting as a
16	chairman, so
17	Q. And so was it your understanding that on
18	this lower diversion, and the upper, that whatever
19	water was available at Lee Creek you would just divert?
20	Or were you aware there were potentially other sources
21	injecting water into Lee Creek?
22	A. Would you rephrase the question, please?
23	You're not
24	Q. It wasn't very well worded, so I can do
25	that.

1 Was it your understanding of your water 2 rights that if there was water physically available at your lower or upper diversions you would just divert 3 it, whatever was physically there? 4 Because it's -- it was 5 Α. No. No. So no, I -- no, that was supposed to be 6 quantified. 7 the watermaster's job. So no, no. I was aware that 8 no, that I was -- should be limited to the water right. You're correct. But with that limitation 9 Q. 10 were you -- if water was physically available and your 11 water rights were in priority, then the watermaster 12 would say you could take water through those diversions; correct? 13 14 Α. Yeah, but the watermaster was pretty iffy. 15 So he would basically control -- because all the junior 16 rights are upstream, so... 17 Q. Was it your understanding that you could file a delivery call against those junior users to 18 19 divert from your diversion points? You know, I really wasn't aware of it, no, 20 Α. because I thought -- I thought that was the 21 22 watermaster's job. 23 Okay. Mr. Bromley asked you several Q. questions about Exhibits 4 and 5. And I want to ask 24

you a little bit about that.

25

1 What -- did you file a delivery call for Water Right 74-157, which is Whittakers' rights in 2 2020? 3 No. 4 Α. Why then was there an administration 5 0. dispute in 2020? 6 7 Α. That was between IDWR and them. No. I did 8 not file a call on that, no. I became aware of it when 9 about a third of my water wasn't there anymore. So I 10 made a contact to the watermaster. And no. No, I did not make a call on that water. 11 12 Well, and maybe we just have to define some 0. 13 terms. But I think when you say you called the watermaster, I would call that a deliver call. You --14 15 you were trying to call out a junior to provide water 16 to your rights. 17 Is that what you did? I called him and asked him, "Where did 18 Α. 19 my water go?" 20 0. And when you say "Where did my water go?" 21 was that at both diversion points or just the upper or 22 the lower? 23 Yeah, a combination. Α. 24 0. Okay. And then do you know what that watermaster did? And I'm sorry. Let me strike that. 25

1	Was that Merritt Udy that you called?
2	A. Yes.
3	Q. Okay. What happened after that?
4	A. I really don't know. He said there was
5	something going on between IDWR. And it took, oh,
6	two-and-a-half, three weeks to get reconciled.
7	Q. Since you've owned the property, do you
8	interact on a well, I'll ask it this way.
9	How often do you see or visit with either
LO	James Whittaker or Jordan Whittaker?
L1	A. Maybe once a year, twice a year.
L2	Q. So not very frequently?
L3	A. No.
L4	Q. Okay. Have you ever had a discussion with
L5	them about the water rights on the Stroud Creek
L6	drainage?
L7	A. Not really.
L8	Q. Okay.
L9	A. Not that I can recall.
20	Q. And in your discovery responses you
21	indicated that the first time you became aware of the
22	Kauer Ditch was in 2015; is that right?
23	A. I was aware of the Kauer Ditch. You know,
24	there was there was it was kind of one of those I
25	was never to the Kauer Ditch diversion until early July

1 of 2014. That was -- that was how they told me that's 2 how it worked. Okay. And who took you up there? Was it 3 0. 4 the watermaster? I believe I went up there with Tom Udy, the 5 watermaster, in 2014. Yes, in early July of 2014. 6 And what did he tell you about that ditch? 7 0. That -- just that's where they had --8 Α. 9 that -- that's where they were diverting some water. 10 You know, that's where they were turning the Everson and Stroud water. And up to and including 2014, the 11 12 Everson Stroud water was sent across through that Kauer Ditch --13 14 0. To then --15 Α. -- to intercept someplace down Porcupine, 16 Lee Creek. 17 Q. And then that water would go into Lee Creek, which would make its way down to your 18 19 diversions; is that right? 20 Α. Yes. 21 Q. In -- well, let me ask it this way. Okay. 22 You know who Scott King is; correct? 23 Α. Yes. 24 0. And he has prepared an expert report

25

in this matter.

1 Have you familiarized yourself with that 2 report? I've looked through it. 3 Okay. I'll have you turn to -- it's 4 Q. Exhibit 1 in the binder. 5 This one? Okay. Here it is. I got it. 6 Α. 7 I'll have you turn to page 13. Q. Turn on the lights. 8 Page 13 in Exhibit 1? 9 Α. 10 Correct. Q. 11 Α. It is -- there's no --12 THE HEARING OFFICER: Oh. 13 MR. BROMLEY: Oh, yeah, you have a spare copy. 14 THE WITNESS: Okay. Page 13? 15 (BY MR. HARRIS): Correct. There's a map 0. 16 represented on there from the 1970 Lemhi adjudication. 17 And the report, which has been admitted into evidence, seems to indicate that originally there was just a 18 19 single point of diversion, which would have been your upper diversion, and then the ditch bifurcated as it --20 shortly after it was diverted from the lower diversion. 21 22 Do you see that? 23 Yeah, I -- I -- yeah, I see. Α. Yeah. 24 In -- in your conversations with Mr. Nef, 0. did he ever describe this situation, that -- that the 25

1 ditch actually started from one point of diversion and split into two? 2 Α. 3 No. So evidently at some point the decision was 4 Q. made by a prior owner to then just add the lower 5 diversion point and hook into one of those branches; is 6 7 that --I don't know. 8 Α. 9 Okay. You don't have any knowledge of --0. 10 Α. No. -- of that? 11 Q. 12 In your testimony you said you Okay. received documents from Cal Whittaker on Lee Creek and 13 14 who they were. 15 Who is Cal Whittaker? 16 Cal Whittaker was the secretary of the 74Z 17 District from '94 through -- I don't know, maybe 2010. I'm not sure. You know, he got old and wasn't able to, 18 19 so... 20 Ο. And was it just water right records that he 21 gave you, or was there --Α. 22 No. 23 -- explanations of how they were Q. administered or anything like that? 24 It was just a list of water rights, owners, 25 Α.

1 place of use, quantity, point of diversion. Okay. Did he discuss with you at all any 2 Q. of the Stroud Creek water rights, or did it include the 3 Stroud Creek water rights, to the best of your 4 recollection? 5 It -- it included Lee Creek water rights, Α. 6 7 so yes. Stroud Creek, I think technically, is part of 8 Lee Creek. 9 Part of the -- part of the drainage? 0. Okay. 10 Right. Α. Right. 11 Q. Yeah. In this expert report from Mr. King, 12 he indicates that the lower point of diversion was inadvertently omitted from claims filed in the SRBA. 13 Is that -- did you tell him that? 14 Do you 15 agree with that statement, that it was an omission? 16 Α. Yes. 17 Q. In what way? Okay. I just always assumed they were in the same 18 Α. 19 40. Been receiving water from five different 20 watermasters for 27 years, so... And you actually filed late claims in the 21 Q. Snake River Basin Adjudication; correct? 22 23 Α. Yes. And that was in 2014 --24 Q. Okay. 25 Α. Yes.

1	Q shortly after they stopped taking
2	claims?
3	A. Yes.
4	Q. What how did you know that you needed to
5	now file claims in the SRBA water case?
6	A. Oh, I was contacted by IDWR Boise.
7	Q. And told that your rights were on record,
8	but no claims had been filed; is that right?
9	A. They well, they they, yeah, we had
10	to we had to file because we were never given second
11	notice from IDWR.
12	Q. And if I understand your testimony, you
13	just took the same descriptions from the Lemhi
14	adjudication and put them in the Snake River Basin
15	Adjudication claims; correct?
16	A. I think so, yeah. I'm not going to say
17	absolutely.
18	Q. Okay. So you didn't have direct
19	involvement.
20	Did you let your attorney, Mr. Bromley
21	A. Yes.
22	Q handle all that?
23	A. Yes.
24	Q. Okay. But at that point you acknowledge
25	you didn't include in your claims the lower diversion

1 point? 2 Α. Right. Even though it has been in existence for --3 0. 4 do you have any idea how long it's been in existence? I would -- probably goes back to 1880s, I'm 5 guessing. You know, it's been the primary source of 6 7 water coming to the place -- you know, and all I can 8 say, what I know is from 1993 on. You know, that's what -- what I've talked to one of -- Steve -- one of 9 10 the previous people that lived there, you know, that 11 they were there from like through the '50s and early 12 '60s. And yes, that was -- that was the water --13 that's what they had did prior to... 14 0. I probably didn't ask my question very 15 well, so I apologize. 16 Do you -- there's a map from 1970 that 17 shows there was only one diversion point. At some point there were two. 18 19 Do you have any idea when the second one 20 would have been added? I would bet that it was added way on before 21 Α. 22 1970. 23 So you think that map was inaccurate? Q. 24 I don't know. Α. In your -- the questioning from 25 Q. Okay.

1 Mr. Bromley, I believe I heard you say that Stroud Creek comes into Lee Creek above both of your diversion 2 points. 3 Did I understand your testimony correctly? I don't think -- Stroud Creek comes in kind 5 Α. of in between them, you know, and -- at present day. 6 You know, what -- what -- I have never -- I had never 7 spent that much time in that creek until last summer. 8 So yeah, at the present time Stroud Creek comes in real 9 10 close, comes in below my upper diversion. 11 0. And is that based upon your own observation? 12 13 Α. Yes, that's what -- yeah. 14 0. So you would agree that right now it comes 15 in below your upper diversion point? 16 Α. Yes. 17 Q. What is your understanding of the concerns of the protestant with this transfer? 18 19 Α. I don't know. 20 Q. But you've reviewed their protests? 21 Α. Looked it over, yeah. If the transfer was granted and the 22 0. Okay. lower diversion point was an authorized point of 23 24 diversion, you would have a senior right to call out juniors on Stroud Creek. 25

1	Do you understand that?
2	A. Well, you know, yeah, I no, you're
3	you're you know, I'm going to you're
4	separating you're calling Stroud Creek a separate
5	drainage.
6	Q. No. It's a tributary. But physically if
7	it comes in below your upper diversion point, if you
8	move below that confluence, you improve your access to
9	water supply, and you're now in a position to call out
10	junior water rights up Stroud Creek and demand that
11	water come down to your lower diversion point.
12	Do you understand that?
13	A. Yeah.
14	Q. Is that your intent with this transfer, is
15	to do that?
16	A. My intent is to be able to capture my
17	senior water rights.
18	Q. But you would you would agree with me
19	you would improve your position by adding the lower
20	diversion point, because then you would now be below
21	the confluence of Stroud Creek and Lee Creek?
22	MR. BROMLEY: Objection. It's the ultimate
23	decision of the Hearing Officer to make that decision.
24	THE HEARING OFFICER: Sustained. Move on.
25	MR. HARRIS: Well, I'm asking if that's his

1 intent, to call for that water at the lower diversion 2 point. So I think it's a different question. THE HEARING OFFICER: Do you intend to make a 3 4 call against upstream juniors on Stroud Creek moving forward? 5 THE WITNESS: I want -- I'd like to have my 6 7 senior water rights filled. So if a call is what I would need to do, yes. 8 9 THE HEARING OFFICER: Okay. (BY MR. HARRIS): In your testimony with 10 Q. 11 Mr. -- or your questions with Mr. Bromley, he referred 12 you to Exhibits 4 and 5. 13 And, Scott, do we need to give you back 14 your expert report? 15 MR. BROMLEY: Are you done with it? 16 MR. HARRIS: I am done with it for right now, 17 I just don't want to get it mixed up in all the yeah. exhibits. 18 19 On Exhibit 5 there was some instructions Q. 20 that the watermaster received from Cindy Yenter. 21 Do you see those instructions at the bottom of the first page of the letter? 22 23 Α. Yes. 24 Did you participate or receive a report of Q. any of those measurements that were called out in the 25

1 [unintelligible]? No, not -- not that I recall, no. 2 Α. Okay. What -- what communication did you 3 0. 4 have with Ms. Yenter during the course of this 2020 administration dispute? 5 I had a telephone conversation after I Α. 6 7 spoke with Merritt Udy in June of what was going on and --8 9 What did she tell you was going on? 0. They were checking into, you know, that 10 11 74-157 or that right. There was a spring right that 12 was in -- you know, they had concerns with or 13 something, so... 14 0. Okay. And anything else in that phone 15 call? 16 Not that I recall, no. Α. 17 Q. So that was one call. Was there subsequent phone calls or 18 19 communications? 20 Α. Possibly. I'm not sure. You're not sure or you don't recall? 21 Q. I -- I don't recall. 22 Α. 23 Okay. Well, I think that's all in there. Q. 24 Do you have the ability to clean your upper ditch? Have you gone in and cleaned it out? 25

- 1 We're in the process -- we were going Α. No. to do it last fall. But it's on BLM, and it took them 2 like 60 days to come take a look at it before the --3 we -- they made the -- it was a [unintelligible] ditch 4 and that we could clean it. But no, it took us 60 days 5 or longer to get them to come visit the ditch. And so 6 7 we were going to do it last fall, but the weather got issues with it. 8 And sometimes different words mean 9 0. 10 different things to different people. But when I use the word "cleaning," that's just -- just restoring it 11 12 to what was there before. 13 Were you proposing to BLM to actually 14 enlarge the ditch and make it bigger than what was originally there? 15 You know, I don't recall the conversation. 16 17 You know, it was out with Linda Price and Chad Zen [phonetic] and -- on an afternoon. And so, you know, 18 19 there was just conversation back and forth, but...
 - Q. Okay. And -- but your intent was just to go clean it out to approximately the same dimensions of the ditch that's there now?
 - A. It's -- yeah, we've got to stay in the footprint, so...
- 25 MR. HARRIS: Okay. I have no further

20

21

22

23

1	questions.
2	THE HEARING OFFICER: Okay.
3	
4	EXAMINATION
5	BY THE HEARING OFFICER:
6	Q. Mr. McConnell, are there times during the
7	irrigation season at the upper ditch when you divert
8	all of the water in the creek?
9	A. All the water that's present, yes.
10	Q. There are times when you entirely divert
11	the creek at that upper diversion?
12	A. Yes. We did that basically after
13	August 6th, yes.
14	Q. What what does your diversion dam at the
15	upper ditch look like? Is it a tarp dam?
16	A. Yeah, it's was pretty much just rocks
17	and yeah, and and yeah. It's just yeah. It's
18	not it's not a, quote/unquote, "probably proper
19	diversion."
20	Q. Well, no, it's not a concrete structure?
21	A. No, no.
22	Q. It's rocks in the creek, and you put a
23	canvas or a tarp in front of that?
24	A. Right.
25	Q. Okay. You testified that there are times,

though, that you intentionally bypass that upper ditch
to allow water to flow in the creek down to the lower
ditch?

- A. I think probably in the instances of -- in, you know, like 2001 or '2 or '3, we had really, really super short water years. And so you split nothing. So yeah, there was -- there was -- as I recall, probably two different years we shut the top diversion off to -- so we could have a semblance of water.
- Q. So outside of those drought situations, in an average water year you take all the water available at that upper ditch?
- A. You know, there's -- it's kind of one of those things, as situations arise, as we get rain events or there's -- those things can fluctuate. So yeah, though -- if we get a three-quarter of an inch thunderstorm in an hour and a half, there's probably water goes over the top and down.
- Q. Does the creek channel flow continuously below that upper diversion dam? Is there always water in Lee Creek immediately below the upper diversion dam, or is the channel dry when you're diverting water?
- A. No, no. There's always -- always some water.
 - Q. Always some leakage water?

- A. Yes. Well, yeah, yeah. Because the confluence -- the confluence is not very far. I mean they're not -- they're like maybe 50, 60 feet.
- Q. So the creek remains active, Lee Creek remains active between the upper ditch and the lower ditch?
 - A. Yes.

- Q. Okay. During the irrigation season -- and I'm talking now prior to August 2020. During the irrigation season do you divert all of the water available at the lower ditch?
- A. Not -- not per se. Not -- we have to allow some stock water to go by. There's a 1918 stock water right. So -- so there -- we need to pass some water almost -- you know, so yeah. So no, not -- not all of it is -- sometimes it dries up. But, you know, but for the most part there is some water passing down Lee Creek by the lower diversion.
- Q. Are there times of the year during the snowmelt runoff where there's so much water coming down Lee Creek, whether it be the Right Fork or the Left Fork or both, that the flow in the creek exceeds your water rights, the 15.2 cfs of your water rights?
- A. I think probably go back to 2009, we had got 2 inches of rain in one weekend. And yeah, there

1 was -- there was all kinds of, you know, there was one 2 of those -- yeah, there was more water than -- yeah. More water than you can divert? 3 0. Α. More water than I would even want to try to 4 divert. 5 What happens to the water that bypasses --6 7 you talk about a small amount of stock water. there's a significant flow of water, what happens to 8 the water that bypasses or flows past your lower ditch? 9 10 It continues to run through Lee Α. Okay. And then Lee Creek kind of combines with some 11 Creek. 12 springs that head out on the property. And there is 13 a -- a water right, beneficial use of springs, on --14 for the ranch below us.

Q. Are you familiar with other ditches or diversions downstream of your lower ditch?

15

16

17

18

19

20

21

22

23

24

- A. Yeah. I -- there's -- there's no diversions, no. Not that I -- no. I mean there's sometimes when you get -- when you get a -- when you get a lot of water, yeah, there's water that goes places that's probably maybe not supposed to. But no, there's -- the creek -- and the creek channel dries up, you know, through -- through the summer, through June, July, August, September, so...
 - Q. Are you personally familiar with the Lee

1 Creek channel between your lower diversion and the river, the Lemhi River? 2 Α. Most of it, yes. 3 Q. Does -- does the river -- does Lee Creek 4 5 flow through all the way to the Lemhi River at times? Oh, yes. Α. Yes. Yes. 6 7 Describe the -- I notice one of the 0. Okay. issues of protest where it was location of your 8 9 measuring devices on your upper and lower ditch. Let's 10 see if there's a map that would be helpful. Possibly 11 in Exhibit 1. Maybe I -- you can just use this. 12 think there's -- there's a map that gets kind of zoomed 13 in on those points of diversion. This page 8 might be 14 the best. Maybe page 11. 15 Can you identify -- I'll just hand you this 16 Can you identify -- so I'm looking at page 11 on 17 Exhibit 1. It kind of shows the two upper and lower points of diversion with green dots. 18 19 Α. Right. 20 0. Can you show me where approximately that upper measuring device is? How far down the ditch? 21 Oh, it's probably -- I would guess it's in 22 It's, you know, with -- there was -- we 23 24 installed those in 2000. There was measuring devices

that the watermaster back when we came in '93/'94 said

1	they weren't acceptable. And so they I think at
2	that time they measured water up at the Kauer Ditch.
3	But so we put them there just for kind
4	of convenience of the watermaster. You know, they
5	they're probably out of the distance of what they
6	should be.
7	MR. MANWARING: Mr. Hearing Officer, just to
8	make sure we're clear on the record, we couldn't tell
9	what he was pointing to.
LO	THE HEARING OFFICER: No. I was going to
L1	that was once he was done speaking, I was going to
L2	talk about where that is.
L3	So Mr. McConnell had indicated a point on
L 4	the upper ditch that is farther north farther north
L5	than the lower ditch.
L6	Q. And would you say approximately by that
L7	second black arrow down?
L8	A. I would say between the two, I believe.
L9	Q. Between the two black arrows
20	A. Yeah.
21	Q coming from the north down
22	A. Yeah.
23	Q on the upper ditch.
24	Can you tell me on the lower ditch where
25	the measuring device is located?

1	A. Oh, they're almost parallel. I would
2	you know, they're probably between those two arrows
3	here.
4	Q. Between the top two black arrows on that
5	same
6	A. Yeah.
7	Q on that same map? Okay.
8	MR. BROMLEY: Just so everybody knows, you know,
9	those points were GPS'd by Scott King. And when Scott
10	testifies to his report
11	THE HEARING OFFICER: He can speak a little bit
12	more to that.
13	MR. BROMLEY: Yeah.
14	THE HEARING OFFICER: Okay.
15	MR. BROMLEY: He can be a lot more precise.
16	THE HEARING OFFICER: That's great. I
17	appreciate that, Mr. Bromley. I that's just
18	something that I think is important to have in the
19	record. And if Mr. King can testify to that, that's
20	great.
21	Those are the questions that I had. I'll
22	turn it back to you, Mr. Bromley. If you have any
23	follow-up questions, go ahead.
24	MR. BROMLEY: Great. Thank you.
25	Rob, would you mind putting that Google

```
1
    Earth image that you had up --
 2
           MR. HARRIS:
                         Yeah.
            MR. BROMLEY: -- when Kipp was asking questions.
 3
                 That's great.
 4
 5
            MR. HARRIS: So I always use this as a bit of a
    landmark.
 6
 7
           MR. BROMLEY:
                          Okay.
           MR. HARRIS:
                         Here is -- so is that good?
8
           MR. BROMLEY: Yeah, that's just fine.
9
10
           MR. HARRIS:
                         Okay.
11
12
                      REDIRECT EXAMINATION
    BY MR. BROMLEY:
13
                 So, Bruce, this Google Earth image, does
14
            0.
15
    this look similar to what you were discussing with
16
    Mr. Manwaring?
17
            Α.
                 Yeah.
                        Yeah.
                                Yeah.
                                       The stuff -- you know,
    the kind of the center part of it, you know. So yeah,
18
19
    that -- that -- yeah.
20
            Q.
                 It's an image?
            Α.
21
                 Right.
                        It's an aerial, maybe it's from a
22
            0.
                 Okay.
    satellite, it's something.
23
24
                 Is Lee Creek at all written down on that,
    like a map that you would see?
25
```

1 I -- you go back some of the maps, yeah, I Α. think they called it Lee Creek at all -- yeah, you 2 know. 3 But I -- on this image I don't see 4 Q. 5 anything --I don't see anything there, no. 6 Α. -- that's written down that shows --7 0. I assume -- I'm just assuming -- I'm 8 Α. 9 assuming that's, you know... 10 So would you agree there's some Q. 11 interpretation going on when we're looking at this? 12 Α. Yeah. Okay. I mean when I look at it, I see a 13 Q. 14 lot of trees, and even in the photos that Mr. Manwaring was showing -- let's see. Which one was it? Oh, like 15 Exhibit 30 -- 309. 16 17 Do you have Exhibit 309 up there? 18 Α. Yes, I do right here. 19 THE HEARING OFFICER: Yep, the loose papers. 20 Yep. (BY MR. BROMLEY): 21 Mr. Manwaring told you Q. that this was the headgate for your lower point of 22 diversion that you're seeking to add through this 23 24 transfer? 25 Α. Yes.

Q.	Do you recall that?
A.	Correct.
Q.	Okay. And do you see a bunch of trees?
A.	There's a lot of brush.
Q.	Okay.
A.	There's a lot of willows. Not so much
not so much	trees as willows.
Q.	Vegetation?
A.	Right.
Q.	Stuff you'd normally see in the bottom of
a	
A.	Right.
Q.	of a channel?
	Is that what then we see on this Google
Earth image	is a whole bunch of vegetation?
A.	Pretty yeah, there it's it's
pretty dens	ely vegetated.
Q.	Okay. So it's kind of less than clear,
then?	
A.	Yeah.
Q.	Let's see. Bruce, if you wanted to, could
you go in a	nd muck around and move the Lee Creek
channel arc	ound to benefit you?
Α.	Probably not legally.
Q.	Okay. Might run into problems with with
	Q. A. Q. A. not so much Q. A. Q. A. Q. A. Q. then? A. Q. then? A. Q. you go in a channel arc A.

1 who? I'm not sure. 2 Α. I -- the DEQ. I've never 3 done it, but it's kind of accepted as not the right 4 thing to do. Okay. And you explained, Bruce, when you 5 were answering some questions from Mr. Harris about the 6 conversations that you had with Darrell Nef. 7 And do you recall that? 8 9 Α. Yes. Who was the owner of the property at that 10 Q. time? 11 12 The what property? Α. 13 Q. Of your property. Glenda and I, my wife. 14 Α. 15 Okay. But prior to you buying it, who was Q. 16 the owner of the property? 17 Α. It was the estate of Parlee Arvee [phonetic]. 18 19 Q. Okay. And Parlee Arvee, if I'm recalling 20 correctly -- and maybe you recall, but do you recall whether he was the one who was in the Lemhi 21 adjudication or should have been filing in the SRBA? 22 23 Yes, he would have been. Α. Yes. Yes. I think he owned the property from '68 to '93. 24 25 Q. Okay. And so Mr. Arvee, was he an active

owner of the water?

A. Parlee A

- A. Parlee Arvee was deceased when we bought the property. So from what I gather, he was an absentee landowner, some -- I guess I was told, sometimes he stayed there, leased it out. On occasion in '92 I think he hired a guy to change water.
- Q. And so at that point, then, Darrell Nef was -- he was diverting water and using the place?
- A. Yes, yes. He was -- I think -- I think they'd worked out an agreement for him to graze some cattle on the upper piece to irrigate the lower piece.

 Or irrigate -- to irrigate the place. I'm not sure. I wasn't really privy, but that was what -- that was what my understanding was.
- Q. Okay. And so Darrell Nef, I think you said, had knowledge going back into the late 1940s?
- A. I believe he told me that he bought that place in 1949.
- Q. And then your recollection was that that -that lower diversion had been in place at least since
 then, according to Mr. Nef?
 - A. Yes.
- Q. And then you had mentioned Steven Kauer during your back-and-forth with Mr. Harris.
- Who was Steven Kauer?

1 Steven Kauer's parents owned the place, I Α. think, from early '50s through about '68. I'm not --2 you know, that -- just -- just -- yeah, that's -- I 3 think '68 was when Parlee Arvee bought the property. 4 And I assume through the '50s and early '60s they owned 5 And I think when -- when Steven was there, I -- he 6 had an active role in irrigating it. 7 What was your understanding from Steven 8 Q. Kauer as to the diversion points? 9 They -- he told me they used -- always used 10 Α. both of them. 11 12 You were asked some questions by 0. Okay. 13 Mr. Cefalo about downstream water users. 14 Have you ever had any complaints from water 15 users downstream about not receiving water? In fact, I had one of the first owners 16 Α. No. 17 was there said that since we -- he had never had that 18 much water. 19 Q. Okay. So we -- you know, when we -- if we take 20 21 care of the water right, we send a lot of water. We put a lot of water back into the ground, in the 22 23 springs. 24 The -- as currently configured and existing Q. on the ground, can you divert the entire 15.2 into 25

1 either the upper ditch or the lower ditch? 2 Α. Probably not. Come closer with a lower ditch, but probably not. 3 Okay. And is there -- is there land that 4 Q. 5 can only be irrigated by the lower ditch? Α. Yes. 6 7 Last question I have here, Bruce, is 0. you had a number of questions that were asked of you by 8 Mr. Harris about a filing a delivery call. 9 Do you recall those questions? 10 11 Α. Yes. 12 Do you know what a delivery call means? 0. 13 Α. I guess the first time I really became aware of it was I was having some issues with my 14 15 water -- getting my water back in '14, '15, and I had a conversation with Mr. Cefalo. And he said, "You need 16 17 to make -- you need to call for your water." 18 Q. And do you understand what that means, to 19 call for your water? 20 Yeah. It -- and I think it was in 2015, 21 Tom Udy was the watermaster. We -- I stopped him and said, "I am calling for my water." You know, we had --22 I don't remember the time. But we were way short of 23 24 water.

25

Because he said -- previously he said he

1 really didn't understand how the water rights on Lee Creek worked. And then I brought him the copies, and 2 he said, "Well, I looked into it, and you're right." 3 4 So -- and so I -- in 20, I believe it was 2015 I That was the call I made for the water. 5 called. Do you know why you were short in 2015? Q. 6 7 Something upstream. Α. It wasn't ever explained to you what that 8 Q. 9 something was? Yeah. We had water -- we had it -- within 10 Α. 11 a couple days we had -- we had the water. 12 Do you know what happened to bring the 0. 13 water down to you? 14 Α. Don't know what went on. 15 Okay. So watermaster went upstream, is 0. 16 what you're saying, and --17 Α. Yes. -- did something and --18 0. 19 We had water. Α. 20 Q. -- you had water? 21 And I was happy. Α. Okay. That's all I have. 22 MR. BROMLEY: Thank 23 you. 24 THE HEARING OFFICER: Okay. From the group of protestants, any other follow-up questions? 25

1	Mr. Harris?
2	MR. HARRIS: Yeah, I do.
3	THE HEARING OFFICER: Mr. Manwaring, did you
4	have anything else?
5	MR. MANWARING: I think I'm going to cover mine
6	with some other witnesses.
7	THE HEARING OFFICER: That's fine.
8	Okay. Go ahead, Mr. Harris.
9	
10	RECROSS-EXAMINATION
11	BY MR. HARRIS:
12	Q. Just a couple clarifications. And I'll
13	just pick up right where Mr. Bromley ended up.
14	You were short in 2015, there was something
15	upstream.
16	What stream was there something going on?
17	A. Lee Creek. You know, that was what you
18	know, water rights Lee Creek, you know, total water
19	yeah, watermaster. So yeah, I'm not sure it was
20	probably would have been the Left Fork of Lee Creek
21	that
22	Q. Okay. But as far as you know, did he make
23	any changes in Stroud Creek?
24	A. Well, Stroud Creek kind of is Lee Creek,
25	you know.

1	Q. They're in the same drainage, but there's
2	different channels.
3	So do you know what channel? Were they up
4	the Left Fork or Stroud Creek or
5	A. They would have been up probably the Left
6	Fork I don't know. I didn't go up there.
7	Q. And if you don't know, that's okay. That
8	can be an answer.
9	A. Yeah.
10	Q. Is that what you're saying, you don't know?
11	A. That well, like I say, there was
12	water the water the water got there.
13	Q. Got it. You testified before you're not
14	aware of any diversions that are downstream of your
15	diversions.
16	Did I understand that testimony correctly?
17	A. Well, there is there is a there is a
18	diversion that on the lower end of the property that
19	catches the water and takes it to the property below
20	me. So, you know, we've had various different owners.
21	Kelly Thomas, Rand Robinson [phonetic], Nature's
22	Conservancy, and now it's Beeler [phonetic], so
23	Q. Okay. On this map up here, these are dots
24	that we obtained from the Department of Water
25	Resources. Here is your upper diversion. Here is your

1 But there is a diversion in between lower diversion. 2 that's owned by, I believe, Mr. Johnson. Are you familiar with that ditch heading at 3 4 all? Yeah, it's -- yeah, it's right below the 5 Α. hiwary [phonetic]. You know, it's likes a 1957 right, 6 7 something like that. So when there's lots of water, when there's water passing by, it gets caught, yeah. 8 So... 9 I'm not asking about the water 10 Q. Yeah. 11 right. 12 I'm just saying you're familiar, there is a 13 ditch heading at that location, you've seen that; is 14 that right? 15 Yeah, there's -- there -- yeah, it's --Α. 16 there's ditches that -- that intercept the creek. 17 Q. Okay. 18 THE HEARING OFFICER: Between your upper ditch 19 and lower ditch, there's a ditch there? 20 THE WITNESS: No, no, no, no. No. It's below the lower diversion, and I think --21 THE HEARING OFFICER: Yeah, he's not 22 23 understanding what you're asking. 24 THE WITNESS: -- the place you're talking to is like that 1831. 25

1	Q. (BY MR. HARRIS): So
2	A. Is that is that the one you're referring
3	to?
4	Q. No. So see this dot right here? These are
5	your water rights.
6	MR. BROMLEY: Mr. Cefalo, I'm going to object.
7	I mean this is the Department's water right records,
8	which you've said you will take notice of, speak for
9	themselves. Mr. McConnell said he's aware of the
10	Johnson diversion. Mr. Johnson's here.
11	THE HEARING OFFICER: Uh-huh.
12	MR. BROMLEY: I think that's frankly the better
13	place to do it. He's a protestant. He can speak to
14	his own issues.
15	THE HEARING OFFICER: Mr. McConnell, have you
16	seen a ditch on the creek between your upper and lower
17	diversion? Are you familiar with a ditch there?
18	THE WITNESS: There's supposed to be one there
19	but I'm not familiar with one.
20	THE HEARING OFFICER: You haven't seen one
21	yourself?
22	THE WITNESS: Not no, I've never. No.
23	THE HEARING OFFICER: That's good enough.
24	Move on
25	MR. HARRIS: I think that was my question.

1 THE HEARING OFFICER: -- Mr. Harris. Yeah. 2 Q. (BY MR. HARRIS): So now below the red dot, there are other diversions. 3 Have you seen these diversions? That's all 4 I'm asking, is if you're aware that they're there or 5 have seen them. 6 7 That would be 15-200 and 15-201. Α. Yes, yes. 8 Yes. Yes. 9 I believe your testimony before was 0. Okay. you weren't familiar with diversions below your lower 10 diversion, but I think you're saying you actually are 11 familiar with some further down Lee Creek? 12 13 Α. Yeah. There -- they're kind of -- yeah, 14 there so remotely, they're so late. You know, so yeah. 15 Q. Okay. 16 Α. It's kind of one of these I don't go there. 17 But yeah, they -- that was -- I just re- -misremembered, yeah. They're -- they're there. 18 So 19 yeah, I mean [unintelligible]. 20 THE HEARING OFFICER: And we can ask Mr. Johnson 21 about those too --22 MR. HARRIS: Correct. I just --23 THE HEARING OFFICER: -- as he takes the stand. 24 MR. HARRIS: -- wanted to make sure I understood 25 your testimony.

1	THE HEARING OFFICER: Okay.
2	MR. HARRIS: So I don't have any further
3	questions.
4	THE HEARING OFFICER: Okay. Thank you,
5	Mr. McConnell.
6	THE WITNESS: Okay. Leave this sitting right
7	here?
8	THE HEARING OFFICER: Leave all that right
9	there.
10	MR. BROMLEY: Yeah, leave everything there,
11	Bruce. Thank you.
12	MS. YENTER: Do you want to pause?
13	THE HEARING OFFICER: Okay.
14	(Lunch recess.)
15	THE HEARING OFFICER: We are back on the record,
16	returned from a lunch break.
17	While we were off the record here just a
18	moment ago, we had a discussion.
19	Protestant Jordan Whittaker had been
20	running a video camera during the first part of the
21	hearing. After we had a discussion it was decided that
22	we would stop that video recording. It had not been
23	consented to by the applicant, Bruce and Glenda
24	McConnell. And so and it wouldn't have been the
25	official recording anyway. This audio recording that

1	we're making up here at my table is going to be the
2	official recording of the hearing.
3	So with that, we will move forward with
4	your witnesses, Mr. Bromley.
5	MR. BROMLEY: Okay. And just to be clear, then,
6	we didn't understand that this video recording was not
7	the Department's and, as you said, did not consent.
8	And to the extent that it's ever used in the future,
9	McConnells did not consent to this being turned on.
10	THE HEARING OFFICER: That's fine. Thank you.
11	MR. BROMLEY: Thank you.
12	THE HEARING OFFICER: Mr. Bromley, go ahead.
13	MR. BROMLEY: Okay. We call Scott King.
14	THE HEARING OFFICER: Okay.
15	MR. KING: Can I take it? I need to take this
16	up there [unintelligible].
17	MR. BROMLEY: Yeah.
18	
19	SCOTT KING,
20	having been called as a witness by the Applicants, was
21	duly sworn and testified as follows:
22	
23	THE HEARING OFFICER: Mr. King, do you solemnly
24	affirm that the testimony you're about to give will be
25	the truth, the whole truth, and nothing but the truth?

1	THE WITNESS: I do affirm.
2	THE HEARING OFFICER: Okay. Have a seat.
3	
4	DIRECT EXAMINATION
5	BY MR. BROMLEY:
6	Q. Okay, Scott. Please state and spell your
7	name.
8	A. Scott King, S-c-o-t-t, K-i-n-g.
9	Q. And who are you employed by?
10	A. SPF Water Engineering.
11	Q. And what is your position with SPF?
12	A. I'm a project manager with SPF Water
13	Engineering.
14	Q. And
15	A. This has to be my water also. I forgot to
16	take that with me.
17	Q. Scott, if you can turn to Exhibit 2 there.
18	A. Okay.
19	Q. Is that an accurate summary of your
20	professional experience?
21	A. Yes, it is.
22	Q. And have you previously been qualified as
23	an expert witness in water right matters in Idaho by
24	IDWR?
25	A. Yes, I have.

1 And so, Mr. Hearing Officer, prior MR. BROMLEY: to hearing we both -- Mr. Harris and Mr. Manwaring and 2 myself had agreed that we would stipulate to both Scott 3 4 King and Bryce Contor being expert witnesses. I hope that's still the case. 5 THE HEARING OFFICER: Mr. Harris? 6 7 MR. HARRIS: I want him to go through every line 8 of his CV. No. 9 And we can do that, Mr. Harris. MR. BROMLEY: 10 That's a bad joke. No objection. MR. HARRIS: THE HEARING OFFICER: 11 Okay. Great. Okay. 12 MR. BROMLEY: Yeah. Thanks. 13 THE HEARING OFFICER: You can proceed. 14 MR. MANWARING: I want it on the record, I don't 15 want to do every line [unintelligible]. 16 MR. BROMLEY: Okay. So we then have a 17 stipulation as to Scott King being an expert? THE HEARING OFFICER: 18 He can testify as an 19 expert witness. You bet. 20 MR. BROMLEY: Great. Thank you. 21 So, Scott, are you familiar with the Lemhi Q. 22 Basin? 23 Α. Yes, I am. 24 0. And if you could please explain your 25 familiarity.

A. Well, I was working on my master's degree going back to the early -- let's see, late 1990s. I was working in the Upper Salmon River Basin, and working on kind of fisheries and restoration-type issues and water supply. And so first of all, I became familiar with the Lemhi during my work in the Upper Salmon area.

Later on while employed with the Danish

Hydraulic Institute, the DHI group, I worked on a basin

model, which is a water distribution model of the

Pahsimoroi Basin, and was using the Lemhi River Basin's

model as a template for that. So I became familiar

with some of the diversions and the operations up

there.

Other water distribution things while working at Water Resources, but more recently at SPF Water Engineering, we are doing a number of gauging station operations. Have a contract from the Department of Water Resources. And I think we have about a dozen different gauges in the Lemhi River Basin, so I'm kind of familiar with the name of the tributaries and the mainstem.

- Q. Okay. And you've been retained by Bruce and Glenda McConnell in this matter; correct?
 - A. Yes, I have.

1	Q. And have you visited the property?
2	A. Yes. In March
3	Q. Okay.
4	A this year.
5	Q. So Exhibit 1, you've got that in front of;
6	you; right?
7	A. That's my report; is that correct?
8	Q. Yep.
9	A. Yeah. Okay.
10	Q. So what were you asked to do?
11	A. I was asked to review the transfer
12	application that was submitted by McConnells and the
13	other water rights on the Lee Creek watershed system,
14	and to provide an opinion about whether that transfer
15	application meets the standards of IDWR, whether it's
16	an approvable transfer.
17	Q. Okay. And so then in your report as
18	Attachment A, and then we've also got them in there as
19	Exhibit 9, those are the McConnell water rights.
20	If you could just please briefly explain
21	what the water rights are that are owned by the
22	McConnells?
23	A. McConnell has a series of water rights from
24	Lee Creek and one from spring. But the Lee Creek water
25	rights have a variety of priority dates, different

1 places of use within their area that they generally use the water. And they list one point of diversion, which 2 we've talked about earlier being the upper point of 3 4 diversion. 5 0. Great. And then there's a spring right here. Α. 6 7 that, I understand, serves domestic and stock water 8 It's not part of this transfer application. use. Okay. And the priority dates range from 9 0. sort of what to what? 10 11 Α. I see priority dates ranging as old as 12 May 12th, 1883, to as junior as November 5th, 1909. 13 Q. And which part of that report are you 14 looking at? 15 This part of my report is Appendix A. Α. It's 16 a Summary of Water Rights Owned by Applicants and 17 Protestants. It's the very first page. There's a summary page of McConnells' water rights, and there's 18 19 also summaries of the other protestants' water rights. 20 Q. Great. Thanks, Scott. 21 So Exhibit 24, which is in the binder, but then we've also got a blown-up version of it behind you 22 on the easel there. 23 24 Yeah, I'm... Α.

25

Q.

Using that map, you know, whether you want

1 to use the big, blown-up one or the one in your 2 report --I'll use both, to make it simple for 3 Α. 4 everybody. Okay. Even better. Could you just please 5 0. briefly explain where the McConnells divert water from 6 Lee Creek and how they irrigate. 7 Α. On this map, about centered vertically in 8 section 20, there's a little red circle that I've 9 placed on this map. And this map is the USGS 10 quadrangle, dated 18 -- or 1989. 11 12 So that red dot represents the lower point 13 of diversion. And you can see that on this Exhibit 24 14 also. 15 You can also see from there the ditches 16 depicted as a blue line from that lower point of 17 diversion. Upstream of that, in the far northeast corner of section 30, is the upper point of -- well, 18 19 No. I think I'll take that back. Is it 29? I'm no. I'd have to go 20 trying to remember which one it is. look and see. 21 But there's a little spring depiction 22 there, a little circle with a little squiggly blue 23 24 And their upper point of diversion is fairly line.

close to that, but otherwise it wouldn't be shown on

1 the USGS quad, but that lower diversion is shown on 2 that quad. So in terms of the upper diversion, 3 0. 4 is that the diversion that appears on the SRBA water rights that we were just talking about? 5 Α. Yes. 6 7 0. So if we turn, then, to Exhibit 6. Okay. Can you please explain what actions were 8 9 taken by the McConnells and the Department to correct 10 the legal description for the upper point of diversion. 11 Α. Yes. There was a water right transfer 12 No. 84367 that was filed previously to correct the 13 Department's record regarding the location of the upper 14 point of diversion. And so the Department's record showed it in one location further upstream through the 15 16 decreed rights. 17 McConnells were able to show no, it's actually in a different quarter-quarter. 18 It's in a 19 another location further downstream. And we have not 20 changed it. It was just decreed incorrectly. 21 we are correcting the record. And then if you'd turn to Exhibit 7. 22 0. Okay. This is a document dated October 5, 2020. 23 24 And is that transfer number, is that the 25 same transfer number that appears on the transfer you

1 were looking at, Exhibit 6? No. 84367 is the same transfer number, yes. 2 Α. Okay. And so what is this memorandum 3 0. 4 explaining? This memorandum is a review of the 5 Α. application for transfer and determining if -- and 6 providing a review of -- if the information that was 7 8 provided was sufficient to make that transfer 9 approvable. 10 The third paragraph, what does that Q. Okay. 11 say? 12 The third paragraph, "Water right validity: Α. Water rights were decreed in 2014. Aerial photos show 13 14 consistent irrigation of the respective places of use 15 since 2014." So that's saying it looks like these water 16 17 rights are valid. The water rights have been used. The place of use has been irrigated. 18 19 And then the paragraph right below Q. Okay. 20 that, what does that say? "Injury to other water rights: 21 Α. No issues identified. Applicant provided persuasive evidence 22 that the SRBA points of diversion were in error. 23 24 will be no physical change in the point of diversion.

Water has been diverted from the ditch headgate in the

1 northeast northeast of section 30 since at least 2014." 2 Q. Great. So then, you know, is it your opinion, then, that this transfer 84367 resulted in 3 correctly identifying the legal description of the 4 upper point of diversion? 5 Α. Correct. 6 7 0. Okay. Let's look at Exhibit 4, Scott. we talked about this exhibit with Bruce. 8 9 But what does this document explain to you? 10 This was a letter dated August 6th, 2020, Α. 11 to Bruce and Glenda McConnell from Cindy Yenter 12 explaining that the lower diversion is not listed and 13 that water rights, that it must be closed, and that 14 lower diversion must let the water pass. And then it 15 also talks that the upper diversion needs to have a controllable, lockable headgate in compliance with 16 17 regulations. And then Exhibit 5, also a letter 18 0. Okay. 19 dated the same date from Cindy to Merritt Udy. 20 And are those -- I mean what do you Directions to the watermaster? 21 interpret those as? Yeah, consistent with the prior letter, 22 Α. that the watermaster is to stop the McConnells from 23 taking water from the lower diversion. 24

25

Q.

Okay.

So now we kind of understand what

1 was happening in August of 2020. 2 So does -- if you can turn to Exhibit 8. What is -- what's Exhibit 8? 3 Exhibit 8 is the application for transfer 4 Α. 5 that's in front of us today. Transfer No. 84441. Looks like it was received by the Department on 6 October 5th of 2020. 7 Okay. And so then, Scott, from what you 8 Q. understand from Exhibits 4 and 5, was this transfer 9 that we're looking at in Exhibit 8, was it filed to 10 11 address the concerns? 12 Α. Specifically to address those concerns, to 13 include the lower diversion as a point of diversion on 14 these water rights. 15 Okay. All right. Let's go -- before we go 0. 16 back to your report, Scott, if you look on page 2 of 17 the transfer. 18 All the way there at the bottom, what was 19 the fee paid? 20 Α. The fee paid was \$1,700. 21 Q. Okay. And do you know what the basis of that fee was? 22 23 The basis of that fee is based on the cfs, Α. cubic feet per second, of the water rights that were 24 There's a fee schedule that the 25 being transferred.

1 Department has for transfers based on flow rate or 2 volume. And how many water rights were the subject 3 0. 4 of this transfer? 5 Α. Seven. In the fee box, page 2, line No. 9, 6 Q. Okay. 7 do you see there a discussion of a \$50 per water right 8 fee if it's filed pursuant to 42-221.0.8? 9 Correct. Α. 10 And that -- that fee, if it was \$50 per Q. 11 water right with seven water rights would be something less than \$1,700? 12 That would be \$350, if my math is correct. 13 Α. 14 0. Okay. Thanks. 15 So let's turn to Exhibit 1. Back to your 16 report, Scott. 17 So section 1, who protested the transfer? Protests were filed by Ericsson, Johnson, 18 Α. 19 Smith 2P Ranch, Tomchak, Whittaker Two Dot Ranch, and Whittaker. 20 21 Q. Okay. And as to Ericsson, is your understanding that she's not present in the room today? 22 23 Correct. Α. All right. As to Johnson, I believe he's 24 0. still present in the room today? Yeah, he is. 25

1	What was the basis of Mr. Johnson's
2	protest?
3	A. Quotes in there, "Bruce filing for a new
4	point of diversion, so my water should come before the
5	water that goes into that new point of diversion."
6	Q. Okay. And then it was protested by Smith
7	2P Ranch?
8	A. Yes.
9	Q. And what was the basis of that protest?
10	A. "By changing the point of diversion on
11	these water rights, it will alter the way the water has
12	been historically administered based on priority dates.
13	THE HEARING OFFICER: Mr. Bromley, you can jump
14	forward. I I can go back and read the protests to
15	refresh.
16	MR. BROMLEY: Okay. Fair enough.
17	Q. As to Smith 2P Ranch, do you know if a
18	Power of Attorney was included with the protest?
19	A. I do not know. I have not seen one.
20	Q. Okay. Okay. As to Whittaker Two Dot
21	Ranch, do you know if a Power of Attorney was included
22	with that protest?
23	A. No, I don't. I have not seen one.
24	Q. Okay. So let's jump forward, then, to
25	section 2.

1 So would you please explain your findings and opinions in section 2. 2 So first of all, I talk about McConnells' Α. 3 4 water rights here. They have these seven water rights diverted from Lee Creek for irrigating 547.4 acres. 5 And then I list them and I describe a 6 number of these are combined between a senior water 7 8 right and a junior right providing water for so many acres there. There's these different sets with them, 9 that the -- were recently subject to this correction 10 11 transfer that we talked about earlier on the upper 12 point of diversion. 13 And I also discuss the spring right that's 14 not part of this transfer. 15 Then there's the Ericsson water rights. 16 Ericsson has a number of water rights there from Left 17 Fork of Lee Creek and from Stroud Creek. There's two Those ones have 1883 and 1912 priority dates. 18 of them. 19 It's interesting that Water Right No. 74-370, the first one I list of Ericsson, has a 20 condition on the water rights describing a prorating 21 between other -- another 1883 water right. 22 Ericsson also has three other water rights from 23 Those ones look like they don't have anything 24 springs. 25 to do with this transfer application.

1 It says, "Ericsson's point of diversion from the Left Fork Lee Creek, also known as Stroud 2 Creek, and sometimes maybe also known as Everson 3 Creek," although those might be separate. 4 It's downstream from the Tomchak and Foster diversions. 5 So Ericsson's somewhere in between. 6 Then I talk about the Johnson water rights. 7 8 Johnson owns a number of water rights in the Lemhi 9 River drainage, listing sources of Big Eight Mile 10 Creek, Lee Creek, Mill Creek, and springs. The ones I list here are the ones from Lee Creek and those ones 11 12 from Big Eight Mile Creek that might have something to 13 do with the Lee Creek water rights, meaning that they 14 might overlap on some of them. 15 There's this first one here, 74-949. It's 16 a 1918 -- 1918 priority water right for 1 acre. 17 74-1831 is .24 cfs for irrigation of 12 acres. those two places of use don't appear to be overlapped. 18 19 And it looks like they have individual points of diversion. 20 And then there's a 74-15201, 0.34 cfs of 21 1990 priority water right from Lee Creek for irrigation 22 of 17 acres. And the place of use there is overlapped 23 with water rights diverted from Big Eight Mile Creek. 24 25 And then I discuss those two water rights

1	from Big Eight Mile Creek, 74-15720 and 75 74-15721.
2	And I list some other water rights from Big
3	Eight Mile Creek and conclude that they don't look like
4	they have a direct connection with Lee Creek or this
5	application.
6	Smith 2P Ranch water rights, there's one
7	for a spring for domestic use, 74-1616.
8	74-1615 provides 2.43 cfs of 1919 priority
9	water from Everson Creek for irrigation of 121 acres.
10	THE HEARING OFFICER: Mr. King, I'm going to
11	stop you. I can read through this too.
12	THE WITNESS: Okay.
13	THE HEARING OFFICER: Maybe in the interest of
14	time, so
15	THE WITNESS: So in the interest of time
16	THE HEARING OFFICER: If there's something
17	you something important that you're wanting to draw
18	out of these kind of summaries of water rights, then we
19	can do that. But otherwise, I can I can read
20	through the specifics.
21	MR. BROMLEY: Okay. Yeah.
22	THE WITNESS: One thing I want to there's 2P
23	Ranch, that's Foster or Tomchak, look like they share a
24	point of diversion for some water rights there.
25	And there's one of these, this 74-2351,

```
1
    that doesn't look like it's been used.
                                              There's no
 2
    indication on the aerial imagery.
                 (BY MR. BROMLEY): On the Smith 2P Ranch
 3
            0.
 4
    water rights --
 5
            Α.
                 Yes.
                 -- who's -- who's the owner of the rights?
            Q.
 6
 7
                 Foster, from what I recall in pulling up
            Α.
8
    what I could find for those water rights.
9
                 Yet the protest was filed by whom?
            0.
10
                 Smith 2P Ranch.
            Α.
11
            Q.
                 You didn't see a Power of Attorney?
12
            Α.
                 No.
13
            Q.
                 Or any explanation?
                 I'm not sure who Smith 2P Ranch was.
14
            Α.
15
    looked on the Secretary of State's site, and I couldn't
16
    find anything for that.
17
            Q.
                 Okay. On the Whittaker water rights, 2.6,
    and you had mentioned it in relation to the Rosalie
18
19
    Ericsson, I see on the second bullet of page 7
    reference to 74-369.
20
21
            Α.
                 Yes.
22
            0.
                 And --
23
                 That is a water right with this May 12th,
            Α.
24
    1883 priority, a senior water right on Lee Creek
             And that -- I believe if that's right, that
25
    system.
```

1 one shares that same pro rata condition that the other one that we discussed earlier does. 2 And how do you know about this prorated 3 0. 4 condition? It's on both of those two water rights. 5 Α. Ιt spells out right in the water right that these water 6 7 rights essentially shouldn't be cut off to divert any other 1883 water rights, those with the same priority. 8 9 These two water rights get to be used first. And if 10 there's not enough between the two, then they get to 11 get their share of water pro rata. 12 0. And is that pro rata language on the face of the McConnell rights? 13 14 Α. No. 15 Okay. But it's -- it is documented, then, 0. 16 you were able to see it on the face of this 74-369 and 17 74-370? 18 Α. Yes. 19 So that's how you know about it, Q. Okay. because it's written down? 20 21 Yes. Α. MR. BROMLEY: Okay. And, Mr. Cefalo, I 22 23 appreciate you asking me to speed up. You know, we 24 never know how fast or slow we need to move, and I

25

never know --

1 THE HEARING OFFICER: That's okay. 2 MR. BROMLEY: -- what counsel's going to say and lay foundation for something. So I'm happy to go a 3 4 little bit faster also. 5 THE HEARING OFFICER: I think we're good to jump over the summary of the water rights. Thanks. 6 7 MR. BROMLEY: That's great. Thank you, then. So, Scott, if you can look at section 3 of 8 Q. 9 your report. Could you just please explain your findings 10 11 and opinions. 12 Α. McConnell diverts water from two points of 13 diversion. There's an upper one and a lower one. visited both of those, and I provided an estimate as to 14 how much water those might divert. And this was just 15 16 kind of a rough estimate from looking at the size of 17 the ditch, that the upper one may take two-and-a-half to 4 cfs, and the lower one maybe around 12 cfs. 18 19 the lower one is clearly larger, visually, looking at 20 it. 21 At the upper diversion there was a channel that was feeding the lower diversion. And that other 22 channel was about 50 feet away from the headgate at 23 24 that upper diversion. So there were two channels there and about 50 feet distant at that location. 25

1 Figure 1 provides a description of the place of use and the points of diversion. And then 2 there's some following figures that show photos of the 3 4 ditch and the diversion works. You were in the room, Scott, when the 5 Hearing Officer asked about location of measuring 6 devices. 7 Do you recall that? 8 9 Yes, I do. Α. And we had stated, you know, once we get to 10 Q. 11 Scott King's report, there's some information on that 12 subject. 13 If you could just show the Hearing Officer where that is located. 14 15 On all of these figures --Α. 16 THE HEARING OFFICER: Oh, yeah. 17 THE WITNESS: -- Figure 2 through 5, this was using an app on the phone. It a provides a location. 18 19 And then the app I also took a screenshot of, if we 20 needed to show that earlier to show that, what it looks 21 like on the map and what those distances are, we can 22 see that. 23 MR. BROMLEY: Mr. Cefalo, does that help answer 24 that question you had? 25 THE HEARING OFFICER: It does. I appreciate you 1 pointing that out.

- Q. (BY MR. BROMLEY): Proceed.
- A. Continuing on, so I GPS'd those points of diversion. And on Figure 6 I present those. And so it shows the little green dots of the locations where I GPS'd the points of diversion.

And then we can also see on the aerial imagery the ditch supplying the irrigated place of use, the ditches from the upper and lower points of diversion. And I put some arrows along those ditches, because what I wanted to do is compare this imagery, this current imagery -- I think this was 2019, and to other imagery.

So then on Figure 7 -- and Figure 7 is the 1986 imagery that was used in the SRBA adjudication for preparing recommendations and doing analysis on those. And that shows the same points that I GPS'd and the same arrows.

So on my GIS using the RGS, like Rob was showing earlier, those arrows are in the same exact location. We can see, looks from here to me, that those diversions are in the same location and the ditches are in the same location.

Figure 8 is a little different. This is maps that were drawn by Department of Water Resources

```
1
    staff, I believe using aerial imagery, but they were
    hand drawn and have been scanned and made available.
 2
    Now, you'll see a difference here between the north
 3
 4
    half of Figure 8 and the south half of Figure 8.
 5
                 They're different colors because if you
    pull up the Department's part of this, the south half
6
 7
    of Figure 8 is completely incorrect. It's some
8
    different section or township. And they made a mistake
9
    when they were putting these together. So I had asked
10
    Craig Saxon with Water Resources "Can you send me the
11
    image of the south half?" And so I geo-referenced that
12
         Still it's showing the same points of diversion
    in.
13
    and the arrows marking that.
                And what we can see here is the 1970 point
14
15
    of diversion looks like it's a ways upstream of that
    southern green dot.
16
                          It looks like it's in another
17
    quarter-quarter. Which makes sense, because it was
    decreed in that quarter-quarter in the earlier
18
19
    adjudication, and then comes along the SRBA
    adjudication, and it's in a different quarter-quarter.
20
    So it had moved in the meantime.
21
           MR. HARRIS:
                         I'm sorry. Did you say "had" or
22
23
    "hadn't"?
24
           THE WITNESS:
                          It had.
25
           MR. HARRIS:
                         "Had."
```

THE WITNESS: Based on these maps. And I wasn't there in the field, but based on review of the maps, it looks like it's moved.

MR. HARRIS: Thank you.

THE WITNESS: We can also see from this, it appears to me, the way they've mapped this, is the upper diversion was diverted into one ditch, and then -- what? -- 500 feet downstream about that ditch bifurcated, and it served an upper ditch and a lower ditch.

If we go further on the north half of the map where we see "8" circled, we can see that the location of that lower ditch is kind of close to where some of the arrows are pointing to. So to me it looks like sometime between 1970 and 1986 things had changed on the ground.

It also looks to me that this -- this Lemhi mapping should be shifted just a little bit to the east, based on arrows and the location of the upper ditch and the location of the field. But you can kind of see that in the map if it makes any -- if it's important.

Q. (BY MR. BROMLEY): All right. So section 4.1 of your report, Scott, if you could please explain your findings and opinions.

1	A. So in section 4.1 I'm describing
2	Figure 9 is showing the different systems, the
3	different reaches that are in here. And this
4	Mr. Manwaring was asking earlier, he was talking about
5	things such as Everson Creek, Stroud Creek, Porcupine
6	Creek, and Lee Creek, also known locally as Right Fork
7	of Lee Creek. And so I kind of name some of these and
8	put nice, dark blue lines on here so we have a
9	reference as to what these look like here.
10	And see on this, Stroud Creek, locally
11	known as the Left Fork of Lee Creek, joins the Right
12	Fork of Lee Creek or Lee Creek well upstream of both
13	the upper and lower points of diversion.
14	Q. And this underlying base map, is that USGS?
15	A. That's the USGS quad map.
16	And the blue lines on here are IDWR's
17	hydrography layer that I I believe that I pulled off
18	of their website and checked against the blue lines on
19	the map, and it matched fairly closely.
20	Q. Okay. So your overlay with blue lines,
21	you're just making it more visible?
22	A. Yes. Those were not blue lines that I drew
23	myself. They were something I pulled from another
24	layer that I'm pretty sure came from Idaho Department
25	of Water Resources' website.

1 0. Thanks. On the next figure, Figure 10, just kind of 2 Α. lay out the locations of the different points of 3 diversion. And so the very south of the map, we have 4 Tomchak and Foster's points of diversion. 5 water right of Tomchak and an Ericssons. 6 Downstream we have Whittakers' rights. 7 8 There's three of them there from that Left Fork of Lee Creek or Stroud Creek or whatever it's called. 9 And 10 then there's the Whittaker Springs, 74-157. Then further downstream we can see 11 12 McConnells' two green dots, two points of diversion. In between those is the Johnson point of diversion for 13 14 74-1831, and then further downstream two more water 15 right -- or points of diversion from Johnson's. All of those locations are based on IDWR 16 17 .shp file for the location of the point of diversion, not my interpretation. 18 19 Next is what's called the 1954 engineer's 20 map, which was something that I believe that maybe Bryce found. It came to me from other information. 21 And I used the version of that, and it shows different 22

And in here you'll see on the northwest part, there's a circle "30," and to the east of that we

23

24

25

water systems.

can see where the east Left and Right Forks join on that engineer's map. And again, we can see that McConnells' points of diversion, as I GPS'd them and played them -- and overlaid them on this map, are well downstream of the confluence of those two forks.

- Q. Scott, can you please explain the paragraph that is immediately above Figure 11 and what you wrote there.
- A. Okay. So the protestants allege that the lower point of diversion is taking water from a fork of Lee Creek, and not Lee Creek, that this Left Fork of Lee Creek continues downstream past McConnells' upper point of diversion between it joins Lee Creek, so to say that these reaches are separate until between those two points of diversion.

And everything that I've looked at from this 1954 engineer's map to the USGS quadrangle map and -- I'm not sure that I showed it -- the Lemhi adjudication map, but all of those were consistent.

They show those forks joining well above McConnells' upper point of diversion and not continuing downstream.

And I think that's important, because it's clear that Lee Creek is formed as -- where McConnell can take and it's not separate forks, well above his upper point of diversion.

1 Okay. There you go. Figure 12. the Lemhi adjudication map, and it also shows -- this 2 is on page 17. It also shows the confluence of the Lee 3 Creek Right and Left Forks. 4 So all the mapping that was available to 5 you is consistently showing where this confluence was 6 7 located above --Some of them moving up or 8 Α. Above. 9 downstream a little bit. The engineer's map is a 10 little different based on their drawing. They probably didn't have as good of imagery what they were using. 11 12 But yes, all clearly above. 13 Q. And "above" meaning above --14 Α. Above McConnells' upper point of diversion. 15 Thank you. Q. Okay. 4.2, let's look at that. 16 17 And please briefly explain your findings and opinions. 18 19 Yeah, so there's some springs listed in the Α. various water rights. There's some of these owned by 20 21 some parties that don't appear to have anything to do with the Lee Creek system; Ericsson and Foster, for 22 example. 23 And also, those springs list a tributary of 24 sinks or don't list a tributary at all, whereas 25

1 Whittakers' Water Right 74-157 authorizes diversion 2 from two springs, and it clearly lists a tributary of Lee Creek. 3 And so then the significance of --4 Q. Okay. of that is what? 5 That those springs are tributary to the Lee 6 Α. 7 Creek system, as opposed to the other springs that 8 don't list a tributary. If it lists a tributary -- if one lists a tributary of sinks or no tributary at all, 9 10 it would be hard to call on that spring. We would not 11 expect it to flow downstream into a named system, 12 whereas the Whittakers' spring right clearly does list 13 a named tributary. 14 0. So that's why you differentiated the two is 15 because of the tributary? 16 Α. Correct. 17 Q. Okay. If you recall, Scott -- and, you know, you've got 74-157 in your report; is that right? 18 19 Α. Yes. 20 0. Are there any administrative conditions on the face of 74-157 that explain it's to be administered 21 differently than its decreed source tributary and 22 priority date? 23 24 Α. No. 25 Q. And that -- you can contrast that,

Okay.

1	then, with the spring rights that you were just
2	describing for Ericsson and Foster?
3	A. Correct.
4	Q. And then
5	A. [Unintelligible] that tributary that's not
6	a named source.
7	Q. And then you'd also mentioned that 74-369
8	and 74-370 with the pro rata
9	A. Yes.
10	Q language
11	A. It's very clear to instruct the Department
12	or a watermaster how those should be administered.
13	Q. Okay. So section 4.3, then, Scott, if you
14	could please explain your findings and condition and
15	opinions.
16	A. Some of the water rights upstream of
17	McConnells are senior and some are junior. And we talk
18	about those two with the 1883 priority date that are
19	with the pro rata language that could be called on by
20	McConnell.
21	We have a place of use for Whittakers'
22	right that's also covered by some Big Eight Mile water.
23	November of 2020, Whittaker had filed an
24	application for transfer No. 84508 proposing to list
25	the tributary listed under Water Right 74-157. So we

wanted to -- the applicant, Whittaker, wanted to remove

Lee Creek as a tributary -- named tributary.

There was recommendations from watermaster Cindy Yenter on that. And Yenter described an east spring and a west spring, and one seems to be more tributary to the Big Eight Mile system and the other to the Lee Creek system. And she provided some additional details to those spring diversions and the use and recommendations for conditional approval of that transfer.

Subsequently, that transfer was withdrawn by Whittaker. So as a result we have 74-157 unchanged, still listing a source of springs tributary to Lee Creek.

We have three water rights by Johnson, two of them are downstream of the lower McConnell point of diversion. One of them was -- 74-1831 was transferred to its current place of use by one of Johnson's predecessors. And it lists that point of diversion between the upper and lower McConnell point of diversion, and a place of use that's kind of between the two ditches.

I don't see any evidence that that ditch is in place, the diversion's in place, that there's been any irrigation on that field through the review of any

of my -- any of the imagery or anything else that's in place. So to me, it looks like the water right was transferred there, and then that transfer was never accomplished by putting in a point of diversion and irrigating.

And as I mentioned, one of these goes to a 1-acre place of use. Doesn't really look like that one's being used either, that 74-949.

And then 74-15201 has a 17-acre place of use in amongst water and place of use from Big Eight Mile Creek, and I can't tell whether or not that water right's diverted or it isn't diverted. It's fairly junior. And the water right -- or the place of use is clearly irrigated, mostly from what I would expect to be the Big Eight Mile Creek water.

- Q. All right. Scott, then looking at section 5 of your report, if you'd please explain your findings and opinions.
- A. I looked through the Water District 74Z watermaster reports. Some of these were fairly clear, and it looks like the watermaster is reporting delivering McConnells' water, and it might it be clear to the full 15 cfs, or close to it. Maybe that most junior water right wasn't completely delivered. But there's records of that water right being delivered and

1 recorded in the watermaster records. 2 Most of these were fairly detailed on the watermaster reports in providing diversions for all of 3 the different water rights there. 4 1919 -- or the 2019 watermaster report 5 doesn't include those details. So I think there was a 6 7 different watermaster that year, and the deliveries aren't quite as clear. 8 9 Whittakers' right 74-157 was not included in any of the watermaster records that I reviewed on 10 11 their watermaster reports. 12 And so it shows to me that the McConnells have exercised the full beneficial use of their suite 13 14 of Lee Creek water rights. The records establish use. 15 It's recorded there. Okay. And that's then consistent with that 16 0. 17 Exhibit 7 that we looked at previously. If you look at Exhibit 7 just quickly, 18 19 Scott, is that -- are your opinions, then, consistent with Exhibit 7? 20 21 Yes, they are. Α. Okay. All right. Section 6, if you can 22 0. 23 please explain what you see there. 24 And let me know, does that section, then, 25 apply the standards that are located in Idaho Code

1 42-222?

A. Yes, they are. This is an analysis of the different elements that the Department is expected to use in analyzing a transfer and making a determination if this is an acceptable transfer that can be approved. And in my analysis, under all of these items, it can be approved.

MR. BROMLEY: Okay. And, Mr. Hearing Officer, would you like me to go through each of the paragraphs, or not?

THE HEARING OFFICER: No.

MR. BROMLEY: Okay.

Q. Okay. So, Scott, then let's jump to section 7, which is your conclusions and recommendations.

And would you please summarize those.

A. The transfer is structured to prevent enlargement and injury, and it should be approved. The point of diversion, the lower point of diversion, the one being added by this transfer, is one that has been there for decades. It's clearly being used.

That the -- we discussed earlier that Lemhi adjudication map shows something a little different, and it looks like something has happened between 1970 and 1986. So there was a difference in the location of

the ditch.

And I talk here that the Lee Creek channel and its point of diversions has a bed that consists of sandy and gravelly sediments. And it's heavily vegetated. As Bruce was talking, there's lots of willows there. There's lots of downfall. I remember walking around there, it was really thick.

We expect channels like that to move around, that they wouldn't necessarily stay in a consistent location. There's some width to it. So if there's grading or bifurcation and that the channel kind of diverges at places, that's not unexpected.

And then the last point here, No. 4, there's been talk of this Whittaker versus Kauer in 1956 Supreme Court decision. And as I say here, I'm not an attorney; I can't make a legal conclusion. But in my experience, if the -- if that prior decision was not carried forward on future decrees, both the 1970 Lemhi and the SRBA, then that's not to be administered that way. I don't see how the Department would know or a watermaster would know how to administer that, because it wasn't included in the future decrees.

- Q. Okay. So in summary, Scott, is it your opinion that this is an approvable transfer?
- A. Yes.

1	Q. And it's your opinion that there will be no
2	injury if the transfer is approved?
3	A. Correct.
4	MR. BROMLEY: Okay. That's all I have on
5	direct.
6	THE HEARING OFFICER: Okay. Great.
7	Moving this way again, we'll start with
8	you, Mr. Manwaring, if you're prepared.
9	Do you want to break, or are you good to go
10	with cross?
11	MR. MANWARING: No, we can go.
12	THE HEARING OFFICER: Okay. Go ahead.
13	MR. MANWARING: I had lunch. I'm ready.
14	
15	CROSS-EXAMINATION
16	BY MR. MANWARING:
17	Q. Scott, first question is, have you been out
18	in the field to examine actual points of diversion
19	where they're located on these streams?
20	A. Yes. In my report on Figures and I'll
21	just go back so that we can on Figures 2 through 5,
22	I visited the McConnell points of diversion and their
23	[unintelligible].
24	But besides being on McConnells' report and
25	around their location of the points of diversion, I

1	haven't been to any others. So just the McConnell
2	ones.
3	Q. Just the McConnells?
4	A. Yes.
5	Q. And is it your testimony here today that
6	the McConnells' upper point of diversion is downstream
7	of the confluence of Stroud Creek into Lee Creek?
8	A. Yes.
9	Q. You saw that when you went out in the
10	field?
11	A. What I saw were two different channels at
12	that upper point of diversion. But my opinion is that
13	the confluence of that is further upstream. It's where
14	it's been mapped before. And because of whatever
15	changes have happened in the meantime, that those might
16	not be in the same channel on the day that I was there,
17	my opinion is means that that confluence is not
18	necessarily moved downstream to where it can't be
19	called on anymore for delivery.
20	Q. Did you walk upstream from that upper
21	diversion point to see the confluence of Stroud Creek?
22	A. No, I did not.
23	Q. Did you walk downstream to see the
24	confluence of Stroud Creek?
25	A. I did not walk downstream to the

1 confluence. I walked downstream to -- or went to the 2 other lower point of diversion. And did you come across Stroud Creek 3 0. 4 confluence in that walk? I don't know which one is Stroud Creek 5 I know that there were different channels. 6 And 7 so my opinion is that's Lee Creek there. 8 Q. Okay. 9 THE HEARING OFFICER: "There" meaning the 10 lower --11 THE WITNESS: There at the upper point of 12 diversion and the lower point of diversion. 13 THE HEARING OFFICER: Okay. 14 MR. MANWARING: Rob, can we play with Google 15 Is that doable? I can ask him some questions Map? 16 while we're going through that. 17 Just going back to your Exhibit 1, which is Q. your opinion on section 6, your transfer analysis, 6.1 18 19 in particular. 20 It is true that your premise that there's 21 no reduction in quantity to existing water rights is based on the determination that the upper diversion is 22 downstream from the confluence of Stroud Creek? 23 24 Say that again, please. Α. 25 Maybe. Q.

1	THE HEARING OFFICER: That's a good question.
2	Q. (BY MR. MANWARING): It's true that your
3	premise that there's no reduction in quantity to
4	existing water rights is based upon your belief that
5	the upper diversion the McConnells have is downstream
6	from the confluence of Stroud Creek into Lee Creek?
7	A. Correct.
8	Q. Okay. Just wanted to make sure I'm clear
9	on that.
10	A. No, you're correct. I wanted to make sure
11	you asked that correct, so we're both clear.
12	Q. You're just making sure I could ask it
13	twice.
14	Now, we have displayed up here a Google
15	image. And that Google image shows Lee Creek and
16	Stroud Creek.
17	You'd agree those are two different streams
18	until they merge; right?
19	A. Yes.
20	Q. And you're familiar also with upper area is
21	Porcupine Creek and Everson Creek?
22	A. Yes.
23	Q. Now, the Department of Water Resources in
24	making a grant of a water right, a decree through the
25	SRBA, they have to identify the tributary or the stream

1	that you're actually using the water right from?
2	A. Correct.
3	Q. Okay. So in your report, Exhibit 1, you've
4	gone through all of these water rights that apply to
5	McConnells as well as all the protesters?
6	A. Correct.
7	Q. And you have, in fact, a list a copy of
8	all those water rights that you provided as part of
9	your report?
10	A. Yes.
11	Q. Okay. And in McConnells' water rights that
12	you have listed here, the source is always listed as
13	Lee Creek; is that correct?
14	A. Except for the water rights that were
15	springs that weren't part of this transfer, yes, all of
16	the water rights, seven of them, listed as having a
17	source of Lee Creek.
18	Q. And you would agree that's their source,
19	Lee Creek?
20	A. Yes.
21	Q. And I think the last one you did show is
22	that source is a springs?
23	A. Correct.
24	Q. Whatever that is?
25	A. Yeah.

1	Q. Okay.
2	A. I believe that spring is down below these
3	points of diversion by their ranch. Like I said, it's
4	used for stock and domestic. It's not associated with
5	these transfers.
6	Q. It's not associated with Lee Creek, except
7	for further down, downstream?
8	A. It's downstream of their points of
9	diversion from Lee Creek.
10	Q. I think the tributaries of the springs is
11	listed as Lee Creek.
12	A. Yes, you're correct. It says springs
13	that's tributary to Lee Creek.
14	Q. Okay. And this is further downstream than
15	their lower diversion has been?
16	A. Correct.
17	Q. Okay. All right. Then the next sets of
18	water rights, you looked at Ericsson's.
19	Those water rights talk about one of
20	them talks about the Left Fork of Lee Creek as the
21	source?
22	A. Yes.
23	Q. And the tributary is Lee Creek?
24	A. Correct.
25	Q. And then the rest of them are groundwater

1 springs combined together, except for one for Ericsson that's a -- the source is Stroud Creek. 2 That's Water Right 74-1855. 3 Yes, I see that. 4 Α. 5 0. And so the source of that one is actually 6 Stroud Creek; correct? 7 Α. Correct. All right. Now, it would be so much fun to 8 Q. 9 go through every one of these. But in the interest of 10 time, we're going to jump back to Appendix F, which is 11 Tomchak's water right. 12 And their Water Right 74-1057 is -- the source is Stroud Creek; correct? 13 14 Α. Correct. 15 And Water Right 74-2195A is Everson Creek? Q. 16 Α. That's correct. 17 Q. And Water Right 74-2261A is Everson Creek? 18 Α. Yes. 19 And 74-2339A is Everson Creek? Q. 20 Α. Yes. 21 Q. So would you agree with me that the Department of Water Resources recognizes those water 22 rights as being actual streams different than what 23 you've been talking about as Lee Creek? 24 A. 25 Yes.

1 MR. MANWARING: Okay. All right. Now, Rob, you 2 got rid of Stroud Creek. What happened to my map? 3 MR. HARRIS: Oh, no, this is --4 5 MR. MANWARING: Oh, there it is. Okay. 6 you'll go -- keep going down. There -- now we can see 7 Stroud. MS. YENTER: There's Everson. 8 9 MR. MANWARING: Why don't you go back. UNIDENTIFIED SPEAKER: 10 Everson. 11 MR. MANWARING: Everson, yeah. 12 Everson, Stroud. Those are two streams; 0. 13 correct? 14 A. Correct. 15 And so Tomchaks have water rights on both? Q. 16 Yes. Α. 17 MR. MANWARING: Okay. Go further downstream 18 now. 19 MR. HARRIS: Downstream? 20 MR. MANWARING: Downstream. That might be the 21 best way to do this, downstream, upstream. Downstream, right there. 22 23 Q. Okay. We notice that Stroud Creek keeps moving in its course. 24 It's been joined now by Everson; is that 25

1	correct?
2	A. Correct.
3	Q. And then you see Porcupine Creek off to the
4	left there?
5	A. Yes.
6	Q. Right. Keep going downstream. Right
7	there.
8	Porcupine Creek, would you agree has a
9	confluence with Lee Creek?
10	A. Correct.
11	Q. Is that confluence above or below the upper
12	point of diversion?
13	A. Upstream. Above.
14	Q. Upstream?
15	A. Yes.
16	Q. Okay. Now go downstream. Right there.
17	Now, can you tell from that map or do you
18	know where Stroud Creek actually has a confluence with
19	Lee Creek? Can you see from that map at all? Can you
20	tell?
21	A. I can see from that map what would appear
22	to me, what this would likely be the Stroud Creek
23	system, although there is something else that's flowing
24	along on this side.
25	And so what I can see from this map, the

1 imagery, is it's not exactly clear what's happening with Stroud Creek as it's flowing down towards the 2 confluence with the Right Fork or Lee Creek. 3 Is there a big springs, swampy kind of area 4 Q. 5 down in that confluence area? It's been described to me as possibly so, 6 7 but I've not been there myself, so I can't speak to it 8 personally. 9 So based on that map that you see up Q. Okay. 10 there, where do you believe the actual point of diversion is, the upper point of diversion for 11 McConnells? Can you tell from that location? 12 I think 13 Α. I don't believe it's on this map. we need to go further north. 14 15 Downstream? Q. 16 Α. Yes. 17 Q. Okay. Now, it's in the trees. What I can 18 Α. 19 certainly see here is there's a ditch. And I believe I know I GPS'd it. We 20 it's approximately right there. could put it right on the map if we pulled in that 21 point. 22 23 Q. Okay. And that, you believe, was the upper diversion point? 24

25

Α.

Yes.

1 And if in fact it's different than 0. Okay. 2 that, would you have a reason to contest somebody that would say it's different than that location? 3 4 Α. Well, what I would not contest is what I GPS'd. 5 6 Q. Okay. 7 And the place that I visited. Α. 8 Q. Okay. 9 So if I pinpointed it correctly on the map Α. 10 or not, I don't know. But I think I got close. 11 0. Okay. That takes us back to your Exhibit 2 12 again. 13 MR. BROMLEY: Exhibit 1? 14 MR. MANWARING: Or 1, yeah. Sorry. Exhibit 2 15 was fascinating, by the way. MR. BROMLEY: You can read all of it. 16 It has a 17 nice headshot. 18 0. (BY MR. MANWARING): We want to go to 19 page 14, Figure No. 9. 20 Α. Okay. 21 Now, page 14, that's your -- your Q. quadrangle map; right? 22 23 Α. Correct. 24 0. And this is the highlighted streams that we just actually looked at here. 25

And again, on that one you are indicating that the McConnells' upper diversion is below the confluence of Stroud Creek into Lee Creek; correct?

It's downstream from there?

A. Correct.

- Q. Okay. And if in fact it's not, if in fact it's upstream from the confluence of Stroud Creek, would you be able to contest that while you're here today or...
- A. What I can say is this is what this map shows. So I can testify to what I see on this map.
- Q. Right. That's why we're asking you these questions.
- A. If Stroud Creek actually joins Lee Creek downstream? Again, I will go back to what I've said earlier. There were two channels at this upper point of diversion. Streams do meander. And if the water that's coming in from the east side now joins the main channel at the flows that I observed when I was there, that wouldn't necessarily surprise me.
 - Q. Okay.
- A. But I still would say that that is the confluence. All the maps said that, at least at the time that they were done. If that confluence moved downstream in the meantime during certain flow regimes,

1 it's still -- in my opinion, that's what was described 2 and anticipated by the water rights as being the confluence. 3 Q. I understand the map look at it. 4 5 But you were here for Bruce McConnell's testimony; correct? 6 7 Α. Yes. And his testimony, if I recall correctly, 8 Q. was that that upper diversion has never been changed, 9 10 the location of it? 11 Α. And -- yes. And I agree that he said that. 12 I disagree that that's true. 13 Q. You think the upper diversion location has 14 actually changed? 15 A. Yes. 16 0. Is that based upon your determination that 17 there was some change from 1970 to 1980-something? Yes, if -- providing that that mapping was 18 Α. 19 correct in the 1970 Lemhi adjudication map, maybe 20 earlier adjudication we don't have any depiction of The '54 engineer's map doesn't show anything 21 either. We don't have those diversions there. 22 23 So going from the 1970 to the 1986, looking at the maps and the ditches, I would say, yeah, if 24 those are right, it has changed locations, the upper 25

diversion.

- Q. So according to Bruce's testimony, since he's taken possession of the property in 1993, that point of diversion has not changed, physical location has not changed?
- A. I don't see any evidence to suggest that the upper diversion has changed locations since '93.
- Q. Okay. So wherever that physically is, that hasn't changed since 1993?
 - A. Not that I can tell.
- Q. Okay. And if that actual physical location is shown to be different, like upstream from the actual confluence of Stroud Creek into Lee Creek, would you be able to challenge that based on your testimony today?

 Do you have reason to contest that?
 - A. Ask your question again, please.
- Q. Well, maybe. If in fact the evidence that's presented shows that the actual confluence of Stroud Creek into Lee Creek is downstream from the physical location of the McConnells' upper diversion, would you be able to challenge that from what you've testified or have [unintelligible]?
- A. No, I think I have agreed that those channels might be separate now, but at one time they were together.

1	Q. Okay.
2	A. And so perhaps under the flow regimes and
3	what we saw that there might be a difference in the
4	location where those channels are joining today.
5	Q. Okay. So if in fact the confluence of
6	Stroud Creek is downstream from McConnells' upper
7	diversion, then having that diversion change to the
8	lower diversion would affect people that like
9	Tomchaks that have a right on Everson and Stroud Creek?
10	A. I don't see that that change in the channel
11	how it moves downstream should change water rights'
12	administration.
13	Q. I would grant you that.
14	But if the water rights' administration has
15	always been based upon what flows into Lee Creek from
16	known diversion points and what flows from Stroud Creek
17	or Everson Creek down to Lee Creek, if the actual
18	upper diversion is the water right for McConnells;
19	correct? That's their water right?
20	A. It's one of them.
21	Q. That's their diversion point for that
22	water; right?
23	A. The upper diversion is their point of
24	diversion for
25	Q. Their water rights, except for this spring

1	that you had?
2	A. Yes.
3	Q. Because they don't have the lower one yet?
4	A. No, not listed on the water rights.
5	Q. Yeah.
6	A. Yes.
7	Q. There hasn't ever been decreed a lower
8	diversion right?
9	A. Correct.
10	Q. That's the one that the Department of Water
11	Resources went out and told the watermaster, "Solve
12	that problem"?
13	A. To shut that diversion off until it's
14	included as on a water right, yeah.
15	Q. All right. Okay. So if if the
16	McConnells' upper diversion is basis for their
17	diversion of their water rights on Lee Creek and that
18	diversion has been upstream from where Stroud Creek has
19	a confluence with Lee Creek, then changing that
20	diversion to be below the confluence would now impact
21	the Tomchaks, whose water right comes from Stroud Creek
22	and Everson Creek; wouldn't you agree?
23	A. Partially. I don't believe that that upper
24	diversion has always been below the confluence of
25	Stroud Creek and Lee Creek. I think that the earlier

1 maps show that those streams came together before 2 there. And then there was an upper point of diversion. And then the upper diversion got moved downstream for 3 4 some reason. And maybe under the current flow regime 5 there's a separate stream right there. But I don't 6 agree that that upper diversion didn't take water from 7 Stroud Creek. I believe that it certainly did. 8 9 You're basing that on maps that you've 0. 10 reviewed? 11 Α. Yes. And the water right decrees 12 themselves. But not -- and then you don't have 13 Q. Right. in-field knowledge of what was going on in 1970, for 14 15 example? I rely on other folks that were in 16 17 stream and field and made the maps. You don't know what was happening 18 0. Right. 19 from the SRBA adjudication in 1980s to 1993, for 20 example? 21 I -- I see what I see on the imagery and 22 the maps, correct. 23 Q. Okay. My first time there on site was in March. 24 Α. 25 Q. All right. And would you agree that

imagery on maps is at best an estimation?

A. No.

O. On a 1970 map?

- A. I would not say "at best an estimation." I would say that in my experience imagery that has been used for mapping can often be very, very accurate. Yes, there can be sometimes adjustments in the imagery, misinterpretations. But I wouldn't agree at all it's at best an estimate.
- Q. If we're talking about the location of a point of diversion and we didn't -- this is pre GPS days, how would you know that that was accurate?
- A. I would expect that there were people in the field that potentially reviewed the points of diversion and mapped them. But there was some kind of basis for location -- locating a point of diversion on a stream at some place, whether that be aerial imagery or whether that be in-field surveys.

I can tell you in my experience working for the Department of Water Resources, I very frequently relied on interpreting aerial imagery to accurately place a point of diversion, for example.

Q. I'm sure you do. But can you tell from aerial imagery, can you see the actual point of diversion without going on the field and determining

1	that?
2	A. In the case in this situation, you can get
3	close. But because of the thick, dense willow cover,
4	there might be a little bit of confusion as to the
5	exact location, yes.
6	Q. Yeah. We could probably take this
7	satellite image all the way to the ground.
8	And would that help us know where it's at?
9	A. If it was if the imagery was of
10	sufficient detail, yes, it would.
11	Q. Yeah. Do you have imagery that's of that
12	sufficient detail that you've seen?
13	A. No.
14	Q. Okay.
15	A. We would get the NSA or somebody for that.
16	One of those federal agencies; right?
17	Q. That would be fun.
18	And there hasn't been such detailed imagery
19	for the basis of Figure 8 in your report?
20	A. I assume that Figure 8 was using aerial
21	imagery for that work, but I'm not sure about this
22	particular area, because I wasn't there and didn't
23	review their work.
24	Q. And it's hard to tell how detailed the
25	imagery was from that figure; correct?

- A. You're -- you're giving a scale that it's hard for me to comment on.

 Q. That imagery isn't detailed enough to tell
 - A. It -- Figure 8 is not imagery.
 - Q. Right.

you the exact point of diversion?

- A. It's -- it's a drawing that was based on either in-field work, supplemented with imagery, maybe with the USGS quad. Can we tell exactly where that point of diversion was? Well, we can say that they drew it in a certain location.
 - Q. And that's what we can say?
- A. Yes.

- Q. Okay. Same for Figure 9?
- A. Well, what I can say on Figure 9 is the two green dots where my GPS acquired location for those points of diversion, which should be accurate to within 20 or 30 feet.
- Q. Okay. And if in fact the upper diversion is actually upstream from the confluence of Stroud Creek, despite your mapping here, from what you're telling me you weren't out in the field to be able to verify one way or the other the location in respect to those confluences?
 - A. I was there and looked at the points of

- diversion and looked at the other channel that was approximately 50 feet to the east of the upper point of diversion. I was not there specifically to try to make a determination to where these two channels joined. As I've said before, I think that that might change depending on flow regimes and channel movement and erosion and deposition.
 - Q. Okay. I think that's sufficient for what I need to have you tell me.
 - A. Okay.

- Q. Go to the section 3 of your report, that fourth paragraph on page 7 of Exhibit 1.
 - A. Yes.
- Q. Can you explain to me what you're talking about when you're mentioning "channels feeding the two diversions appear to be separated"?
- A. That's consistent with what I was just talking about, that at that upper point of diversion there was a channel that was supplying water to that upper point of diversion. And then I walked through the willows and stepped over a bunch of stuff. And there was another channel that had some water in it that was about 50 feet east of that.
- Now, there might have even been another channel that was beyond that. I don't know. What I

1 saw were those two channels right there. 2 So at that location of the upper point of diversion, the location of that other channel was not 3 flowing to that upper point of diversion. 4 They were 5 separate. Okay. I just want to make sure I 0. 6 understood what you were talking about when you 7 8 referenced those two channels. You also mentioned in respect to section 3 9 10 some historic flows that you were -- had been 11 examining. 12 Could you tell me about -- what you meant by "historic flows" through that area. 13 Could you point to me where I said that. 14 Α. 15 0. I don't think you wrote it here. You were 16 testifying that you examined -- or that you'd looked at 17 some historic flows and you mentioned that. Well, although it's not in my report right 18 Α. 19 here, I have looked at a USGS system called 20 StreamStats, which is a program that's commonly used in 21 the Northwest, and maybe elsewhere, to provide estimates of annual flows, the 20-year flood, the 22 50-year flood, the 100-year flood, those types of 23 things that you might have heard commonly used before. 24

25

Q.

So that's what you're referring to is just

The

1 some tabulations of information about what the historic 2 flows may have been? Well, okay, that's -- that's one example. 3 Okay. 4 Q. But being an engineer working in the water 5 Α. field for a long time and this being part of my career, 6 I know that flows historically have been -- we've had 7 8 very big flows before, and so things move around in --9 in those flows. We have meandering and, like I said, 10 erosion and deposition and channel bifurcation, things 11 happen under these different flow regimes. 12 0. And does the information you're familiar with with those historic flows also give some 13 14 description about, for example, historic flows in the 15 1880s when some of these decrees were initially begun, as opposed to flows since even the '90s or 2000s, if 16 17 there's been a shift in the measurable flow of a 18 stream? 19 Α. I think there's various evidence out there 20 to support that maybe flows might be different than they are historically, but I have not looked at that. 21 22 Different in what way? 0. Okay. 23 That there are areas where -- and times. Α. We -- we go through seasons, we go through periods 24

where we have low flows and we have higher flows.

1 '80s, for example, were a period, 1980s, where we had higher flows than we had in the 1930s where we had some 2 pretty serious droughts. 3 So if -- I can't speak to a long-term 4 5 change in the flow regime here, but I can certainly speak that -- that other scientists that study this 6 7 tell us that flows change over time based on our 8 hydrologic cycles and atmospheric conditions. 9 MR. MANWARING: Okay. I don't have any other 10 questions. Thank you. 11 THE HEARING OFFICER: Okay. 12 13 **EXAMINATION** BY THE HEARING OFFICER: 14 15 I'm going to jump in and ask kind of a 0. 16 question along the lines of what Mr. Manwaring was 17 asking. And I want you to set aside junior water 18 19 I want you to set aside the issues of this rights. case. We do have a number of streams within the state 20 that you -- like you mentioned, that move, that move 21 over time, change. 22 23 If you were dealing with a client -- and I'm sure you have -- who has a point of diversion that 24 is downstream of a confluence of two creeks and 25

there's, you know, a thunderstorm event, a high-flow event and all of a sudden the tributary stream gets bumped out and comes in downstream of their ditch heading --

A. Yes.

- Q. -- what options does that client have to remedy the situation?
- A. The client might have two options. One might be to alter the stream upstream of their point of diversion to try to get water back to their point of diversion.

The other option could be to go to a lower point of -- a lower point below that confluence and change their point of diversion. They might have to do another change to try to get water from that other channel over to their point of diversion. So I could see perhaps three different remedies. But it's -- it's their responsibility to do that.

And I think that's what's happened here in this case, and that's why we have the change from just one upper point of diversion to a system where there's two points of diversion, is because there was a need with streams that have changed for them to go put in that lower point of diversion to access their water.

Q. To -- if the first option were used and you

- 1 were -- and the client was to try to reconnect at the 2 old point of confluence, at the old confluence location, that would require, I quess, a stream channel 3 4 alteration permit possibly? 5 Α. Possibly could, yes. Okay. Okay. You don't -- you haven't Q. 6 7 investigated the stream channels, it sounds like, 8 enough to know whether that would even be a possibility 9 to reconnect the streams at some location upstream on 10 Lee Creek? 11 Α. No, I haven't. But we also have the issue 12 that that upper point of diversion in that upper ditch 13 cannot convey the 15 cfs water rights that they have. 14 So even if all the water was available at that upper 15 one, because those ditch systems have changed somewhere between 1970 and '86, I don't think if the water was 16 17 available at the upper one under the current ditch systems that he has, that he could make use of it. 18 19 Q. Uh-huh. 20 It would require a bit of ditch work to
- THE HEARING OFFICER: Okay. Thank you.

to that lower ditch.

21

22

We'll continue on -- oh, did you have

anything more? I kind of jumped in and piggybacked on

take all the water at one point and then take it down

1	some of your questions, Mr. Manwaring.
2	MR. MANWARING: I quit.
3	THE HEARING OFFICER: Okay. Moving along,
4	Ms. Foster, do you have any?
5	MS. FOSTER: I don't have anything. Thank you.
6	THE HEARING OFFICER: Mr. Johnson, any
7	questions?
8	Okay. We'll come, then, to you,
9	Mr. Harris, if you've got cross-examination questions.
LO	MR. HARRIS: I do.
L1	
L2	CROSS-EXAMINATION
L3	BY MR. HARRIS:
L 4	Q. Scott, you had testified before that you
L5	have testified as an expert witness in other water
L6	right matters?
L7	A. Yes, I have.
L8	Q. Have you represented both applicants and
L9	protestants?
20	A. Yes, I have.
21	Q. And you testified that you are familiar
22	with the standards under Idaho Code 42-222; correct?
23	A. Yes.
24	Q. And that would include injury to other
25	water rights?

Τ	A. Correct.
2	Q. What issues do you review for in your
3	injury analyses? What do you look for to determine if
4	there's injury to other water rights?
5	A. I look to see that could be broad. That
6	explanation could go on for a while. But simply it
7	could be put I look to see if the change proposed by
8	the transfer will cause an impact to other water rights
9	that could injure them.
10	Q. Right. So there's kind of a base
11	expectation, and then you evaluate how the change would
12	change those expectations; is that fair?
13	A. Yes.
14	Q. Okay. And would administrative access to a
15	watershed or a source of water that wasn't there
16	previous, could that be a form of injury.
17	A. Yes.
18	Q. Okay. I want to just kind of walk through
19	your report. I in order, just because I have I
20	just have several questions. So we'll start on page 1.
21	There's a statement under section 1.2 that
22	says, "The point of diversion was inadvertently
23	admitted from water right claims."
24	Do you see that statement?
25	A. Yes, I do.

1 Was that what the McConnells told you, or 0. 2 was that your own independent conclusion? Α. I think that it goes to both. I think I 3 4 first heard that from McConnells, and I think I would agree with the same thing, because it certainly appears 5 to me that that lower ditch and the lower point of 6 7 diversion was apparent on the imagery used for the 8 Snake River Basin Adjudication, and it should have been claimed. 9 10 But you agree that that lower point Q. Okay. 11 of diversion was not on any of the prior decrees, the 12 Lemhi decrees or even the original decree back in 1911; 13 correct? And the Snake River Basin Adjudication. 14 15 Right. Q. 16 Α. The lower diversion was never decreed, that 17 I can tell. Okay. Let's go to section 3 of your 18 0. 19 It's on page 7. Well, I'll actually start report. 20 with this question. 21 Do you know how USGS maps are created? My understanding is that USGS maps are 22 Α. created using aerial imagery with on the ground 23 24 investigation. There might be other information that 25 goes into it too. But it does often say on a USGS map

1 that it's based on aerial photography from a certain 2 date. Now, how that was done historically back in 3 4 the 1880s, I doubt that they were using aerial imagery 5 at that time. I'm really not sure. So a lot of it was probably done from hand-drawn survey. So I believe 6 7 that the USGS uses a variety of methods to prepare 8 their maps, but aerial imagery being one. 9 And I think right on your map 0. Correct. right there it says that it was initially developed 10 from an aerial image; right? 11 12 Α. Correct. 13 Q. You did say there's some ground-truthing. 14 I don't see any indication on there that there is 15 ground-truthing. But where does your understanding come from 16 17 that there is some ground-truthing on what's depicted on the USGS map? 18 19 I think this goes back to my history with Α. 20 the earliest mapping that surveyors were doing before, 21 that there are locations on the maps where survey marks are placed where they're actually locating pins --22 23 Uh-huh. Q. 24 Α. -- or monuments. And so there is 25 ground-truthing going on to locate certain monuments.

And those get placed in the map also.

Q. And I agree with you, there are some images or there's things you can see in an aerial image that are pretty clear.

Are stream channels covered by dense vegetation easy to see from an aerial photo?

- A. Depends on the aerial photo. Sometimes it can be taken during a time of year where it's fairly easy to see because the leaves are gone and there's not as much vegetative cover. So that's an "it depends" answer.
- Q. So I'm going to have -- even though James just moved it over, I'm going to have it moved back.

THE HEARING OFFICER: That's fine. I thought we were going to look at the notes on the bottom of this map.

MR. HARRIS: No, you're fine.

THE HEARING OFFICER: That's all right.

- Q. (BY MR. HARRIS): In this photo, though, during the summertime, is it easy to depict the precise location of the channels that goes through those trees?
- A. There are places that there are and places that there aren't. So when I've looked at the Google imagery and I've zoomed in on locations, there are places in there where you can clearly see a channel.

1 Uh-huh. 0. And it's been pointed out there's these 2 Α. places where it crosses through culverts under this 3 area that looks like a little road there, and there's 4 5 other places up and down where you can zoom in and you can actually see what appears to be a stream channel. 6 7 Right. Q. But maybe it's where you're getting. 8 Α. 9 Can I exactly pinpoint where a stream 10 channel is going through all of that? It might be difficult. It looks like there's one that's coming 11 12 through here, and it looks like there's another one coming through here, and it looks like there's another 13 14 one that's coming through here. 15 In your experience with some of the 0. Yeah. 16 USGS maps, have you ever come across an error in the 17 USGS maps? I can't think of one specifically. 18 Α. But I 19 won't argue that they are never in error. 20 MR. BROMLEY: That's a nice fish, Rob. 21 MR. HARRIS: Sorry. I always do that. Every time I see it. 22 MR. BROMLEY: 23 MR. HARRIS: I know. I really need to change 24 that. 25 MS. YENTER: You're just boasting.

1 MR. BROMLEY: He's showing off. 2 MS. YENTER: Yeah. (BY MR. HARRIS): Are you aware of --3 0. 4 there's actually a couple websites where individuals 5 are able to report changes or discrepancies on USGS maps to the U.S. Geological Survey? 6 7 No, I wasn't. That's good to know. Thank Α. 8 you. 9 And this -- the Department of Water 0. Okay. Resources even talks about this dataset where they --10 they're actively updating [unintelligible] --11 12 This, I have seen, yes. Α. 13 Q. Okay. So you are aware of this? 14 Α. Yeah. 15 So you would agree maps aren't always Q. 16 perfect? 17 Correct. Α. Okay. And even though the USGS map showed 18 0. 19 the confluence of Stroud Creek coming in above both diversion points, you don't have any aerial photos or 20 21 other independent verification of that, other than the USGS maps, the Lemhi adjudication maps we've talked 22 23 about; correct? 24 Α. And that 1954 engineer's map. 25 Q. And the '54. And did you happen to see the

1 legend, on the legend, that that map was prepared from an aerial photo as well? 2 I believe so, yes. 3 Α. So most of them are taken from 4 Q. Okay. 5 aerial photos. I'm going to -- and just to confirm --Well, let me -- sorry, James, I'm going to 6 7 have you move the USGS map. THE HEARING OFFICER: That's good. 8 No. (BY MR. HARRIS): Can you give me the 9 0. approximate quarter-quarter location for where that map 10 shows the confluence of Stroud Creek and Lee Creek? 11 That would be in section 30. It would be 12 Α. 13 in the southeast of the northeast. 14 0. Okay. I'm not going to have James move --15 I keep having him move, but -- so --16 MR. BROMLEY: Rob, would it help if he just puts 17 a mark on that map? It doesn't bother me at all. 18 MR. HARRIS: It's totally up to you, if you 19 want. 20 MR. BROMLEY: Yeah. Scott, why don't you put a 21 mark. I --Sorry, Rob, to jump in. 22 23 THE WITNESS: Yeah. Sure. 24 MR. BROMLEY: Why don't you throw a mark in. 25 THE WITNESS: Make sure my old eyes are put

1 together right. So I am going to circle that right 2 there. So there's a big mark. (BY MR. HARRIS): Okay. So southeast of 3 0. 4 the northeast. Now, up on my GIS map I've got the 5 southeast of the northeast up on there. And looking at that -- and I can zoom in -- it appears that we've got 6 7 a channel here. Did you go visit this quarter-quarter in 8 9 any of your field visits? 10 No, I don't believe so, because I -- I 11 think that the -- the furthest up that I went on the 12 system was at McConnells' upper point of diversion, 13 maybe slightly above there, but not much. 14 0. And this is where I maybe misunderstood 15 your testimony, so I apologize if I'm rehashing old 16 ground. You said you saw two channels at the upper 17 diversion point. Were those -- was one of those channels Lee 18 19 Creek and the other Stroud Creek, or are you saying 20 there were two channels of Stroud Creek? 21 Α. I'm saying there are two channels of Lee Creek. 22 23 Q. That are split? 24 Α. Yes.

25

Q.

So you're saying that the channel that was

1 50-foot distant is another Lee Creek channel? 2 Α. Correct. Based on what? 3 0. Based on this mapping and all the rest of 4 Α. it that shows that that confluence is in this area. 5 And yes, there is another system that's coming in here. 6 7 But I'd maintain if you went back historically, that Stroud Creek is tributary in this area, that this flow 8 here has artificially been constructed by manipulating 9 10 this stream over to the east. 11 0. Okay. But that's -- that's based on what 12 evidence? Just your looking through the maps? 13 Α. Looking through the -- looking through the 14 engineer's map and looking through series of aerial 15 imagery. 16 Okay. Are you saying today, then, that --0. 17 because I think -- I think what we're all dancing around is this is where the Stroud Creek water is 18 19 coming from. 20 Are you saying that's not the Stroud Creek channel or that's a Lee Creek channel? 21 What I'm saying is that's where some of the 22 water comes down through now. We do know that there's 23 24 been -- from what I understand, through listening to what watermaster said and otherwise, a lot of 25

1 manipulation with the Stroud Creek channel through the Whittaker place of use. It's not clearly defined as it 2 used to be. There was at one point where there clearly 3 was probably a channel going through there. But it's 4 5 not clearly defined now. And so my contention is that if we looked 6 7 historically before the channel was manipulated through 8 the property that it would come in in this location, 9 but that the water has been pushed off to the east, and 10 now that water tends to flow down much more in this channel. And that can come, I think, because Bryce 11 said he saw water at this location but not this 12 location and in this location. 13 14 0. Yeah, that's not what he said, but we'll have him clarify that. 15 16 Α. Okay. Thank you. 17 Q. But that channel, that southeast northeast, 18 that's BLM property. 19 So are you saying that there has been 20 manipulation of the channel on that property? 21 Α. No. Then I misunderstood you. 22 Q. 23 Not that I know of. Α. 24 Q. Not that you know of? 25 Α. Yes.

1	Q. So if a stream channel just naturally
2	move and you agree that they do that?
3	A. I think naturally and unnaturally move.
4	Q. Yep. Where would you say the natural
5	channel of Stroud Creek is today?
6	A. I would say that it's nearly impossible, if
7	not impossible, to tell because of the manipulations
8	that have happened with the natural channel through the
9	Whittaker property. I can't tell you where it is.
10	Q. You were not asked to do that in your
11	evaluation?
12	A. No.
13	Q. Okay. So you're not testifying today about
14	where you think the confluence is? Mr. McConnell
15	testified it came in below his upper diversion point,
16	and you're not here disputing that?
17	A. I won't dispute that there was another
18	channel that was west of the upper point of diversion
19	that joined another one downstream. No disagreement
20	there at all.
21	Q. Yeah. When you say "channel," channel of
22	Lee Creek or Stroud Creek? Don't know?
23	A. I'm saying that the confluence before
24	manipulations would have been upstream. So I would
25	still call that Lee Creek. Because it had been pushed

1 off to the side doesn't mean that it's Stroud Creek 2 pushed off down there. When you say it's still Lee Creek, you 3 0. 4 would agree with me, the USGS map calls it Lee Creek 5 all the way up? It doesn't call it Right or Left Fork? That's correct. Α. 6 7 Okay. So there's just one Lee Creek, based 0. on that map? 8 9 Α. Yes. Setting aside this issue, because I 10 Q. Okay. 11 think I understand your legal position, but assuming 12 there was no dispute over where either the historic confluence of a creek came in or the current one is, is 13 moving a diversion below that confluence to gain 14 15 administrative access, in your opinion, would that 16 cause injury to other water rights? 17 Potentially so, yes. A. 18 0. Okay. How so? 19 If you're gaining a new stream that you did Α. not have access to previously. But I believe that 20 these water rights had access to that stream 21 historically when they were developed. 22 23 [Unintelligible.] Q. 24 Α. And whether naturally or unnaturally, that

moved downstream that confluence, they have moved their

T	point of diversion to capture it.
2	Q. Right. And I'm saying assuming there's no
3	dispute. I understand your position in this matter.
4	But again, no dispute over the confluence,
5	you would say that would be grounds for an injury
6	determination?
7	A. If it was water that was not available to
8	the water rights before, potentially so, because they
9	would be able to call on water rights that they had not
10	historically been able to call.
11	Q. Thank you.
12	On page 13 of your report actually, let
13	me ask you this question.
14	In all of your experience with the
15	Department, have you ever been a watermaster?
16	A. No.
17	Q. Okay. But you would say you're an expert
18	on water right interpretation and
19	A. Yes. And part of my job while at Water
20	Resources was advising watermasters on water
21	distribution
22	Q. Okay.
23	A and working with them in the field,
24	providing instructions to them.
25	Q. So if this transfer was approved without

1 any subordination condition and Mr. McConnell called for water out of Stroud Creek, do you believe he would 2 have the ability to do that? 3 Α. I think Mr. -- do what? Well, right now if this transfer were 5 0. approved and his senior right is now downstream of the 6 confluence of Stroud Creek, do you think 7 administratively he would be entitled to call for water 8 out of Stroud Creek? 9 10 I think Mr. McConnell's points of diversion, as historically developed, were always 11 downstream of Stroud Creek. And then the lower one was 12 13 put in, because the streams had moved around. So I think he's always been able to call on Stroud Creek. 14 15 don't see that there's a difference in the sources of water that's available. 16 17 Q. So --And I think that's also -- go ahead. 18 Α. 19 I interrupted you. Go ahead. Q. No, no. 20 Α. I think that the -- the water rights that are 1883 --21 22 Uh-huh. 0. 23 -- that are downstream, very -- they very Α. much imply that, because we have -- McConnell having 24 25 three water rights that are 1883 downstream, and we

1	have the other ones upstream that are 1883. And these
2	upstream ones say we're special. You don't have to
3	send us downstream to deliver water.
4	And I think that's implicit, because
5	there's no other reason that language would have been
6	put on those rights if it wasn't for 1883 water rights
7	that were developed downstream that could have called
8	on that or been shared equally amongst them.
9	Q. Well, when you I'm not sure I track what
10	you're saying.
11	When you say something "implicit," what do
12	you mean?
13	A. We have the two water rights upstream
14	369 and 370. I forget get their numbers.
15	Q. Uh-huh.
16	A. But they have the pro rata language in the
17	conditions that say between the other 1883 water rights
18	you can't call on us.
19	Q. Uh-huh.
20	A. We're uncuttable. But between ourselves,
21	we got to be prorated.
22	Now, why would that language be applied to
23	those water rights if there weren't but for other 1883
24	water rights somewhere else in the system downstream.
25	Q. Wasn't that wasn't that in the original

1 1911 decree, that language? 2 Α. It probably was. 3 0. Right. And that's why I say that's very clear 4 Α. 5 going back historically. That language wouldn't have been placed on those water rights if it wasn't for 6 downstream 1883 that could call on them. 7 Q. Referring to page 13, you say at the 8 Okay. 9 bottom there under 4.1, "The lower portion of Stroud 10 Creek may locally be referred to as the Left Fork of Lee Creek." 11 12 When you say "the lower portion," I'm not 13 sure I understand what you're saying there. 14 Α. Yeah. Maybe I should just say Stroud Creek 15 altogether. 16 Q. Okay. 17 Α. I think there's been a local call of Stroud Creek, perhaps to the Left Fork. I'm not sure if that 18 19 goes to Everson Creek also. 20 0. In -- on page 15 -- well, actually, I'll 21 hold that. Let's go to page 18, the very, very top 22 23 sentence. 24 Rob, did you say "18"? MR. BROMLEY: 25 MR. HARRIS: Correct. Yeah.

1 MR. BROMLEY: Thanks. 2 Q. (BY MR. HARRIS): You say, "Because the McConnell points of diversion are downstream." 3 Are you saying downstream of the confluence 4 5 as shown on the maps or on the [unintelligible] --Let me read the paragraph before that, so I Α. 6 7 can put it into context, please. It's just that first sentence. 8 Q. Except for perhaps the 9 Α. Yeah. Correct. 10 Johnson water right, there's no what we call leapfrogging of points of diversion. McConnell points 11 12 of diversion historically have been, and in the future will be, downstream of all of the protestants, except 13 14 for potentially that one Johnson point of diversion. 15 But if McConnell were to call for water out 0. 16 of Stroud Creek right now, could he physically get it 17 to his upper diversion point? Under the flow regime --18 Α. 19 Q. Okay. -- and conditions that I saw when I was 20 Α. there, I don't think so, but I'm not positive, because 21 I don't know that those are separate channels all the 22 way up to there. We can make an assumption they are, 23 24 but I don't know of anybody that's walked those

channels down.

1 I'm going to have you look at your Q. Sorry, not your Exhibit 4, but Exhibit 4 in 2 Exhibit 4. the binder. These are the letters, 4 and 5, the 3 4 letters between the watermaster --5 Α. Okay. -- and Mr. McConnell -- Mr. and Q. 6 7 Ms. McConnell and Mr. Udy. Are you familiar with those letters? 8 I am. 9 Α. Have -- how many conversations have you had 10 Q. 11 with Ms. Yenter prior to this hearing? 12 Α. Two. 13 Q. Okay. When were those? I don't recall the exact dates. 14 Α. 15 was, I think, a couple of weeks ago within the last 16 couple of weeks. And the other one was maybe two 17 months ago. 18 Q. Okay. 19 Α. Month and a half. On Exhibit 6 -- I'm sorry, Exhibit 5, at 20 0. the bottom of that page there were instructions given 21 to the watermaster to take certain measurements. 22 23 Are you familiar with that -- that part of 24 the letter? 25 Yes, I am. Α.

1 Did -- did you discuss any of those 0. 2 measurements with Ms. Yenter? I remember them being briefly discussed. 3 Α. I 4 don't remember a conclusion, whether --5 0. Okay. Α. -- whether there was -- what the results of 6 7 the measurements were. Okay. And that's really what I was going 8 Q. to ask, is did you discuss any conclusion reached on 9 10 I think your testimony is no? 11 Α. I'm going to say no. And if we did, I 12 don't recall it. 13 Q. Do you understand why she would have asked the watermaster to do this? 14 15 Α. Yes. Why do you think? 16 0. 17 Α. That if the diversions in Stroud Creek, ones in particular -- no, excuse me, that spring 18 19 diversion 74-157, whether that water would flow downstream and become available to McConnells' points 20 of diversion. And I'd have to look at this again to 21 see if it was just one of them or both of them. 22 23 And if those measurements were that Q. Okay. it didn't show any water yielding to the upper 24 diversion point, that would indicate that Stroud Creek 25

1 is joining below the upper diversion? Or that that water wasn't making it down 2 Α. there in the first place. So it could be that that 3 4 diversion was curtailed at that location. 5 0. Uh-huh. But it still might not have flown 6 Α. 7 downstream to that point at all. Q. Right. 8 9 So I can't necessarily say to the upper Α. 10 one, to the lower one, or to anywhere down there. But at least curtailing 74-157 out of west 11 0. 12 springs didn't yield any water to the upper diversion 13 point? I don't know that, because I'm not sure I 14 Α. 15 see the conclusions. 16 0. You're right. I didn't ask that very well. 17 That's okay. You're right. That's all the questions I have. 18 19 THE HEARING OFFICER: Okay. Mr. Bromley, do you want to take a break and then come back with any -- any 20 21 redirect, or are you --22 MR. BROMLEY: Yeah. Let's do that. Sure. 23 Yeah. Let's take a five-minute 24 THE HEARING OFFICER:

break. We've been at it for a while.

1 I could use the bathroom. MR. BROMLEY: 2 MS. YENTER: Do you want me to stop it? THE HEARING OFFICER: That's all right. 3 Go 4 ahead. 5 (Recess.) THE HEARING OFFICER: Okay. We're back on the 6 7 record. Mr. Bromley, did you have any follow-up 8 9 questions for Mr. King? 10 I do. Not -- not very many. MR. BROMLEY: Just 11 a couple. 12 REDIRECT EXAMINATION 13 BY MR. BROMLEY: 14 15 Okay. Scott, what pieces of evidence did 0. 16 you look at to form your knowledge of where the 17 confluence is located? We've discussed these -- the most recent, 18 Α. 19 being this USGS quadrangle, there was the 1986 imagery 20 used for the Lemhi adjudication. There was the 1970 21 map that was drawn -- excuse me, '86 map used for the SRBA adjudication. The 1970 map used for the Lemhi 22 adjudication. And then there's the 1954 map that 23 24 was -- we call the engineer's map from '54. 25 Q. Okay. And that -- that '54 map, I think

1 coincidentally, might actually be Exhibit 154, if you look in the Whittaker book. 2 Is that right? 3 THE HEARING OFFICER: It is. 4 MR. BROMLEY: Yeah. Rob. 5 I don't know if you coincidentally did that or not, but your 1954 6 engineer's map is Exhibit 154. 7 UNIDENTIFIED SPEAKER: Well done. 8 9 MR. BROMLEY: It's kind of fun. MR. HARRIS: I'm going to say I did that on 10 11 purpose, but --12 It doesn't surprise me in the MR. BROMLEY: 13 least. THE HEARING OFFICER: 14 It is. 15 (BY MR. BROMLEY): Okay. So with the 0. 16 documented evidence that you've just summarized again 17 in those three maps, and then I think, Scott, you -you drew on the big Exhibit 24 where you -- where the 18 19 confluence, as you understand it to be, is located. I'm far back here 20 Is that what you drew? 21 and I can't --22 Yeah, that's a long ways away, isn't it? Α. 23 Yeah. Q. 24 Α. And kind of pointing with big sweeps. have -- we have Porcupine Creek coming here. 25 We

have -- I'll get in front of the Hearing Officer, too,
to make this fair.

I was talking about the systems over here.

We have Porcupine Creek coming in. We have Lee Creek,

sometimes called the Right Fork, somewhere up there

coming together. We have Stroud Creek and Everson

Creek coming together.

And between this Stroud Creek and the Lee Creek, they come together and join where I've made a circle. It's about, oh, three-eighths of an inch in diameter. And this is in the southwest corner of the south southwest corner -- quarter of the southeast quarter of the northeast quarter of section 30.

Q. Could you just put your initials on that circle, Scott, so we know that that's what you drew.

Is there anything -- so you've -- you've been out there. Is there anything physical on the ground in that location that helps you understand where this is on planet earth?

A. Well, I have not been to that location.

I've been downstream at the McConnells' points. But in looking at the imagery and things there, there's these -- this road, which I've not been on, but I understand that there's some culverts, this road right here, trail, and some culvert pipes that are close to

1	that location.
2	Q. And that's upstream, is that correct,
3	[unintelligible]?
4	A. Yes. In looking at this and looking at the
5	rest of it, I would call the location of the confluence
6	of those systems right here.
7	Q. Okay. And that's upstream of the points of
8	diversion?
9	A. Yes.
10	Q. The point of diversion that's on the
11	McConnell right and the point of diversion that we are
12	talking about in the transfer at the [unintelligible]?
13	A. Well up well upstream of those.
14	Q. Okay. By "well upstream," meaning by how
15	far?
16	A. What's our scale here? That's almost
17	500 feet or about 500 feet. So there's 500 feet, a
18	thousand feet, 1,500 feet. Somewhere between
19	1,500 feet and 2,000 feet.
20	Q. Okay. So quarter to quarter to half a
21	mile, somewhere less than half a mile?
22	A. Yeah.
23	Q. I grew up in Colorado, so 5,280 feet is a
24	very near and dear number to my heart. Mile High City.
25	Love of Denver Broncos.

1	Okay. The other question that I want to
2	ask, Scott, is just to follow up again on we had talked
3	about the presence of this pro rata language on 74-369
4	and 74-370.
5	A. Correct.
6	Q. And you had been asked some questions by
7	Mr. Harris about your prior testimony, and then you had
8	mentioned again the pro rata language.
9	Why again is that significant to you that
10	the upstream Left Fork of Lee Creek rights are
11	administered together with the downstream Lee Creek
12	proper McConnell rights?
13	A. So the McConnell has three 1883 water
14	rights. They're very far downstream four?
15	UNIDENTIFIED SPEAKER: I think
16	THE WITNESS: Three or four.
17	UNIDENTIFIED SPEAKER: Yeah.
18	THE WITNESS: Sorry. You shouldn't have done
19	that, and I shouldn't be watching.
20	Needless to say, there are several 1883
21	water rights that McConnell owns that are downstream
22	that do not include any language about the pro rata
23	distribution of those water rights. Same exact
24	priority date.
25	And then we have these two water rights far

upstream that are a bit smaller, and they include this pro rata language. So I look at this and say the decree at that time and the judge that's putting that decree together says we have several 1883 water rights on this system. We have a couple of smaller ones upstream and some bigger ones downstream.

And what makes the most sense, for some reason or the other, is these 1883 water rights get administered amongst themselves and can't be called downstream to distribute to deliver water to the other 1883 water rights.

Is it because there would have been a futile call? Too much losses? Were there some other reasons that that decision-maker decided that those ones were special? I don't know. But the language is there. It was there certainly from the earlier decree and got carried forward.

So it clearly says between these there's no other 1883 water rights along there. There's a bunch of junior priority ones, but nothing else until you get to McConnells' place.

So to me that's obvious that there was a realization that those water rights could have been called on by the other 1883 water rights if it wasn't for that language.

1 (BY MR. BROMLEY): And so if the -- because 0. 2 we -- presently there's a point of diversion on the McConnell rights. 3 If the confluence truly were coming in down 4 below that point of diversion that is on the water 5 rights, what would the purpose of the language be? 6 7 Α. I don't see any purpose for that language. Because if that diversion point were upstream of that 8 confluence, those other water rights could never call 9 10 on the upstream ones to be delivered. And as far as I can tell, between 1970 and 11 12 '86, in '70 the water -- the point of diversion was 13 even further upstream. So if that confluence goes 14 downstream, it was even a further upstream point of 15 diversion, which is contrary to that language there in 16 a combined administration of those water rights, and 17 the importance of these ones not being delivered to the 18 downstream ones. 19 So in your experience, Scott, the Q. 20 conditions that are put on the water rights are

A. Yes.

21

22

23

24

25

intended to be administered?

Q. And if the confluence was somewhere else, if the confluence was coming in below that upper point of diversion that is on the face of the rights, it

```
1
    would be meaningless language?
 2
           Α.
                 Those water rights would have been
    administered pro rata anyway. Yes, it would be a
 3
 4
    meaningless condition.
 5
           MR. BROMLEY: Okay.
                                I have nothing further.
           THE HEARING OFFICER: Okay. Coming around.
 6
7
    Mr. Manwaring, anything more?
           MR. MANWARING:
8
                            Yes.
9
           THE HEARING OFFICER: Go ahead.
10
11
                       RECROSS-EXAMINATION
12
    BY MR. MANWARING:
                 If you'll -- on that point, if you'll look
13
           Q.
    at your Exhibit 1. We're in Rosalie Ericsson's water
14
15
    right.
16
                 Which page, please?
           Α.
17
           Q.
                 Well, it doesn't have a page number.
                                                        But
    it's in the actual water right section.
18
                                               There's an
19
    Appendix --
20
                 Oh, one of the appendices.
                                              Okay.
                 -- C. I'm looking at Water Right
21
           Q.
    No. 74-370.
22
23
           Α.
                 Yeah, just a second. I got to get to
    Appendix C. Oh, there's 74-370.
24
           THE HEARING OFFICER:
25
                                  Uh-huh.
```

1 Rosalie Ericsson, yes. THE WITNESS: 2 Q. (BY MR. MANWARING): And the language you're talking about is on that next page, page 2 of 3. 3 4 Under paragraph 1 it says -- I'm going to read this. I want to make sure I read it correctly, if you'll follow 5 along. 6 7 Α. Yes. "When the flow of water in Lee Creek is 8 Q. 9 insufficient to supply all water rights under the 10 5/12/1883 date of priority, Right 74-369 and Right 11 74-370 shall not be prorated with any rights on Lee 12 Creek with that priority date." 13 Did I read that correctly so far? 14 Α. Yes. 15 And what are we talking about with Water 0. 16 Rights 369 and 370? Whose are those? Rosalie Ericsson, and I believe Whittaker 17 Α. owns the other one. 18 19 Okay. So we're talking about the same Q. 20 people? We're talking about those two people, that's all we're talking about? 21 22 Α. Correct. 23 Okay. Then it goes on to say, "When the Q. flow in the Left Fork of Lee Creek falls below amounts 24 decreed in Rights 369 and 370, the two rights shall be 25

1 prorated, according to the respective amounts of water decreed." 2 Did I read that correctly? 3 Α. Yes. 4 And so that language isn't talking about 5 0. McConnells' water right, is it? 6 7 Which language? Α. It's not referring to that? What I 8 Q. No. 1. 9 just read to you isn't referring to McConnells' water 10 right? 11 Α. Yeah, I believe it is. 12 You're basing that on why else would they 0. 13 put it in there? Let me just ask you. 14 Does that water right show up on there? 15 No. But --Α. 16 Okay. Q. 17 Α. -- the source is Left Fork Lee Creek, tributary to Lee Creek. And so that condition is 18 19 specifically saying the water in Lee Creek is 20 insufficient to satisfy the McConnell water rights, the other 1883 water rights under the 5 dash 12 dash 1883 21 water rights, then these should not be prorated with 22 the rights on Lee Creek. 23 24 Q. Whose water right is 74-369? Α. That's Whittaker. 25

1 And whose water right is 74-370? Q. Rosalie Ericsson. 2 Α. Okay. It says there when it's 3 0. 4 insufficient -- when the water flow is insufficient on 5 Lee Creek to supply all water rights under the 1883 date of priority, those two water rights, Ericsson and 6 7 Whittakers' will not be prorated with any rights on Lee Creek with that priority date; right? 8 9 Α. Correct. Okay. But there isn't an actual reference 10 Q. 11 to the water right number of McConnells' on there, it's 12 just talking about Lee Creek with a priority date? 13 Α. Correct. 14 0. Okay. And then in the second part of that, 15 it's just talking about water flows in the Left Fork of 16 Lee Creek; correct? 17 Α. Yes. And from what we can gather, Left Fork may 18 0. 19 have been Stroud, may have been Everson, may have been both? 20 21 I'm not sure, yes. Maybe Everson, but Α. certainly there's a common local name of Left Fork and 22 Stroud Creek on the same system. 23 24 0. Okay. At least -- at least Stroud Creek? Not necessarily Everson, but at least Stroud? 25

1	A. Yes.
2	Q. And again, it's talking about the Ericsson
3	and the Whittaker right having this prorating going
4	on
5	A. Uh-huh.
6	Q is that correct?
7	A. Yes.
8	Q. But again, there's no reference to a
9	specific water right?
10	A. And that doesn't that does not surprise
11	me.
12	Q. Okay. I understand it may not surprise
13	you.
14	But there's no reference to one?
15	A. Not not a reference to it. But it
16	certainly is acknowledging that there are other water
17	rights with an 1883 priority date.
18	Q. On
19	A. The only others are this 369 and 370. So
20	clearly in this decree there was an acknowledgment that
21	there were other 1883 water rights.
22	Q. On Lee Creek?
23	A. Yes.
24	Q. But not Left Fork?
25	A. Correct.

	_
1	MR. MANWARING: Okay. I don't have anything
2	further.
3	THE HEARING OFFICER: Okay. Mr. Johnson, I
4	jumped over you.
5	Any?
6	MR. JOHNSON: I'm good.
7	THE HEARING OFFICER: Ms. Foster?
8	MS. FOSTER: I'm good.
9	THE HEARING OFFICER: Okay. Mr. Harris,
10	anything more?
11	MR. HARRIS: Just one clarification.
12	
13	RECROSS-EXAMINATION
14	BY MR. HARRIS:
15	Q. I believe Mr. Bromley said what evidence
16	did you look for look at for where the confluence is
17	located.
18	And you said the 1986 imagery for the Lemhi
19	adjudication?
20	A. Yes. And I meant 1986 for the SRBA
21	adjudication. I did say Lemhi at first and then
22	corrected myself.
23	Q. But I don't see that image of the BLM
24	property in this report.
25	Are you saying you looked at the image to

1	determine where the confluence was, or were you doing
2	that to look at the points of diversion, McConnells'
3	points of diversion?
4	A. Yeah, you're correct that Figure 7 shows
5	the 1986, does not show the location of that
6	confluence. But that was one that I was also looking
7	at to see if it appeared consistent with the others.
8	But I don't have that in a figure here.
9	MR. HARRIS: Okay. No further questions.
10	THE HEARING OFFICER: Okay. Thank you,
11	Mr. King.
12	Mr. Bromley, you had mentioned that you
13	wanted to call one more witness. You can go ahead.
14	MR. BROMLEY: Yes. We'd call Cindy Yenter.
15	THE HEARING OFFICER: I think this can all just
16	run.
17	MS. YENTER: Let me just get my get us logged
18	in.
19	THE HEARING OFFICER: Okay.
20	
21	CINDY YENTER,
22	having been called as a witness by the Applicants, was
23	duly sworn and testified as follows:
24	
25	THE HEARING OFFICER: Ms. Yenter, will you

1	affirm that the testimony you're about to give is the
2	truth, the whole truth, and nothing but the truth?
3	THE WITNESS: I do.
4	THE HEARING OFFICER: Okay. Go ahead.
5	MR. BROMLEY: Thank you.
6	
7	DIRECT EXAMINATION
8	BY MR. BROMLEY:
9	Q. Cindy, would you please state and spell
10	your name for the record.
11	A. Cindy Yenter, C-i-n-d-y, Y-e-n-t-e-r.
12	Q. And, Cindy, since I've known you for kind
13	of a long time, I'm just going to continue to call you
14	"Cindy," if that's okay.
15	A. That would be dandy.
16	Q. Thanks.
17	Who are you employed by?
18	A. I'm employed by the Idaho Department of
19	Water Resources.
20	Q. And what is your current position?
21	A. Classified as an Analyst 4. I staff and
22	manage the Salmon field office, and I'm also
23	watermaster for Water District 170.
24	Q. Have you been a watermaster before prior to
25	being watermaster for 170?

- A. I have. Off and on since the start of my career, but pretty much full time since 2003 when I was appointed watermaster of Water District 130 in the Eastern Snake Plain.
- Q. Okay. How long have you been the watermaster for 170?
 - A. I was appointed in 2015.
- Q. And being the watermaster for 170, do
 you -- do you have super- -- would it be right to say
 you have supervisory -- you have a supervisory role
 over some of the other districts? Or quite how does
 that work? Because we've talked about Water District
 74Z, and then you've discussed being watermaster for
 170. And --
 - A. Right.

- Q. -- I'm just kind of curious how that works.
- A. Water District 170 was established as an oversight district. And within the oversight -- and the oversight district is meant -- is intended to eventually encompass all of the Upper Salmon basins, from Galena Summit all the way down to the Middle Fork. We, as you know, are not quite finished with that expansion, but we have included the Lemhi Basin in Water District 170.
- And so all of the existing water districts

1 in the Lemhi Basin, including Water District 74D, were put into Water District 170 as subdistricts. And so 2 each subdistrict continues to operate autonomously. 3 They elect their own watermasters. They adopt their 4 5 own budgets. But then yeah, I kind of take on a 6 7 supervisory role for those subdistrict watermasters, 8 and I provide technical support, compliance support, 9 general guidance, and handholding, and -- and anything 10 really that they need to -- to make their job easier 11 and to allow them to just basically go about their 12 daily duties and deliver the water. 13 Q. And --So it is supervisor of sorts. 14 Α. 15 Okay. And I think you said 74D. Q. Or I meant "Z," if I said "D." 16 Α. 17 Q. That's what I think you meant. I meant Z. 18 Α. 19 Yeah, that's what I thought. Q. There's like 12 of them. 20 Α. How long have you been the 21 Q. I know. watermaster of Water District 170? 22 23 As I said just a minute ago, I got -- I was Α. appointed in 2015. 24 Okay. And so then you're familiar

25

Q.

2015.

Yes.

1 with Lee Creek drainage? 2 Α. I am. Great. And are you familiar with the water 3 0. 4 rights, then, that defer from -- I should say within the Lee Creek drainage, which would be Lee Creek 5 proper, Right Fork Lee Creek, Porcupine Creek, Stroud 6 Creek, Everson Creek? 7 Α. I am. 8 9 Q. So if you could turn to Exhibit 4, Okay. Cindy. I'm assuming you're familiar with this letter. 10 11 You signed it. 12 Α. I am. Could you just please describe it. 13 Q. This is a letter that I sent to Bruce and 14 Α. 15 Glenda McConnell on August 6th, 2020, after it had come to my attention that they had been using an 16 17 unauthorized diversion on Lee Creek. And I had asked them to please make arrangements to close that 18 19 diversion and cease using it. Then Exhibit 8, which is this 20 0. Okay. transfer that we've been talking about, are you 21 familiar with this document? 22 23 I'm -- yeah, I'm familiar with it. Α. 24 Q. Okay.

25

Α.

I have not -- yeah, I've reviewed it.

1	Q. And so as to the McConnell diversion, is
2	this transfer addressing the concern that you raised in
3	Exhibit 4?
4	A. Yes. The intent of this transfer appears
5	to me to be to add that lower diversion as an
6	authorized point of diversion on the McConnell water
7	rights.
8	Q. Separate question as to whether it's
9	approved or not
10	A. Exactly.
11	Q but it's at least a paper attempt to
12	correct
13	A. It's the yeah, that's what the intent of
14	the transfer appears to me.
15	Q. Right. Could you turn to Exhibit 10.
16	And what is this document?
17	A. These are my watermaster comments that I
18	made and sent back to the region after as when
19	this transfer it was during the period this transfer
20	was in advertising. And like all watermasters, I got
21	the opportunity to make comments on this proposal.
22	Q. Okay. So let's let's talk a little bit
23	about what you wrote, then.
24	What did you write in this first paragraph?
25	A. That was just to say that I that I was

aware that the second diversion had been in use for some time, and then that that alone did not justify the approval of the transfer, of course, but that everyone in the general area seemed to be aware that that diversion was there, including the watermaster and many of the adjacent water users, although I didn't ask all of them.

Q. Okay. And then in this -- this second paragraph, Cindy, I see some reference again to these Water Rights 74-369 and 74-370.

How do you understand that those are administered with the McConnell downstream 1883 rights?

A. Well, effectively the conditions on 369 and 370 causes subordination of McConnells' rights at the time that there's no longer water in the system. And of course, everybody's talking individual drainages. I don't necessarily look at it that way. It's a system. It's the Lee Creek system. I don't care what you call the creeks.

When there's no longer water in the system to fill all the 1883 rights, then I think the net effect of those two -- of that -- of those conditions on 369 and 370 is that the McConnell rights are subordinated, and they no longer get water sent down to them. And the upper -- the upper two 1883 water rights

```
1
    can use that water, and then they will continue to
    proportionately reduce their use until there is no more
 2
 3
    water.
                 Do you know where the pro rata language
 4
            Q.
    came from?
 5
                 No clue.
 6
            Α.
 7
                 Let me ask you to turn to Exhibit 151.
            Q.
                 151.
 8
            Α.
                 That's in the Whittaker --
 9
            0.
10
                 This one.
            Α.
11
            Q.
                 -- book.
12
            Α.
                 Okay.
13
            MR. HARRIS: Are you now stipulating to its
    admission?
14
15
            MR. BROMLEY:
                           I was looking at one of the
16
    attachments, Rob.
17
            MR. HARRIS: Yeah.
                                 I know.
            MR. BROMLEY: He's already said that it's coming
18
19
    in.
20
                 I'd like you to look at Exhibit A.
            Q.
                 You may have to help me find it here.
21
            Α.
22
                 You're almost there.
            0.
23
                 Is this it?
            Α.
24
                        What's that document?
            Q.
                 Yeah.
                 It appears to be a water decree of some
25
            Α.
```

1	sort.
2	Q. Okay. And who are the parties?
3	A. Looks like Reddington [phonetic] are the
4	plaintiffs. And Bohannan [phonetic], Mulky [phonetic],
5	and Schoonover [phonetic] are the defendants.
6	Q. Okay. And it says "Decreed"?
7	A. It does it is it does say "Decreed,"
8	uh-huh.
9	Q. Does this look familiar to you? Just I
10	mean not this particular decree, but I see water right
11	numbers stamped on the decree.
12	A. Yeah, this is a general it's a pretty
13	general format for for a court a court-decreed
14	water case.
15	Q. Okay. And do you know so the McConnells
16	have water with 1883, they've got let me look at
17	Scott King's table here.
18	A. Yeah.
19	Q. They have 1883 water rights that are
20	74-361.
21	So do you see that in the decree here?
22	A. Yes.
23	Q. Do you see 74-363 in this decree?
24	A. Yes.
25	Q. 365?

1	A. Yes.
2	Q. 367?
3	A. Yes.
4	Q. Okay. And then if you flip to the next
5	page, do you see stamps for 74-369 and 370?
6	A. Right.
7	Q. Okay. And then in paragraph 7, what's
8	written there about prorating?
9	A. Well, part of it is language that's
10	directly reflected in that condition. The rest of it I
11	get a little off in the weeds, because I lose track of
12	who you know, who now owns those lands.
13	Q. Sure.
14	A. The Bohannan and Mulky, but yeah.
15	The part at least part of that is what is currently
16	reflected in the SRBA partial decrees for 369 and 70.
17	Q. So that prorating concept, then, goes
18	back
19	A. It goes clear back to this.
20	Q. Yeah. And what was the date of this?
21	A. 1911. I can look. No. '12, July 1912.
22	Q. Yeah. So over a century.
23	Okay. Okay. And because, then, that that
24	condition appears on the SRBA rights, are you then able
25	to administer them as the watermaster?

1 And to the best of my knowledge, Α. Yes. that -- bear in mind that I don't do day-to-day 2 administration on Lee Creek. There is a local 3 watermaster there. But, you know, I had discussions 4 5 with that watermaster. And to the best of my knowledge, that condition is administered. 6 7 Okay. And you can administer conditions 0. 8 that you're aware of that are on the face of the right? 9 That are on the face of the right, yes. Α. And if you don't have something that's on a 10 Q. 11 water right, how do you administer it? 12 Α. Many times we are -- don't have any 13 authority to administer anything that is not appearing 14 on the right. 15 Yeah. Okay. Cindy, looking back again at 0. Exhibit 10, what did you write in the third paragraph? 16 17 Α. I was writing there about the historic confluence of Stroud Creek and Lee Creek. And this 18 19 kind of goes back to Mr. King's testimony where all --20 every map in existence that any -- you know, anybody's ever looked at shows that historic or the drawn -- you 21 know, the drawn point of confluence in a place that 22 might not be accurate in the present day. 23 24 But I refer to that as the historic And I believe that that was -- or the 25 diversion.

historic confluence, I'm sorry. And I believe that it
was -- well, I don't even -- I don't even -- I can't
even say that. But I -- I refer to that as the
historic confluence.

And -- and in that paragraph I also acknowledge that there is a channel coming in to Lee Creek further down. I'm not prepared to say I know where that channel is coming from, because I don't. It is just a channel, and it seemed to be carrying most of the water on the day I was out there looking at it.

And it was coming in below McConnells' upper diversion.

- Q. Okay. Then in the final paragraph, Cindy, what do you -- what do you say there?
- A. Well, ultimately, I mean my recommendation is that I felt that the transfer could be approvable and be administered without injury. Now, I did not suggest conditions. But that was kind of my implication, is that there would probably be some conditions involved in order for the administration to occur without injuries.

And I didn't speculate as to what those conditions might be. I left -- I'm leaving that up to the Department. But that with proper conditions and proper controlling works on all the diversions, both McConnell and the upstream diversions, that I felt it

would be proper to administer -- I mean I felt it would be possible to administer all the rights in that drainage in that system with that second point of diversion place.

- Q. Okay. And previously you described this as a system --
 - A. Uh-huh.

Q. -- the Lee Creek system. And various people are calling different pieces of it different things.

But you see it as a system is what you said?

A. It is truly a system. It is -- it is administered together. Under Idaho water law systems are administered together. And even in the Lemhi, Lee Creek and tributaries are in one of these separate -- you know, is one of the streams listed in the separately administered list of streams in the Lemhi general provisions.

And that doesn't mean that each tributary gets to be administered as a stand-alone tributary. It means that Lee Creek and all of its tributaries are administered as one. So if -- you know, and so barring any special conditions like the ones that appear on 369 and 370, every water right in that drainage -- or

1 unless there's some extenuating circumstance like a futile -- a futile delivery call, every single right in 2 that drainage is -- is administered at the same 3 priority at any given time, depending on how much water 4 5 is there. So the separateness, then, you mentioned Q. 6 7 the general provision, is to the mainstem of the --Α. Is at the mainstem of the Lemhi only. 8 9 Not -- not to the -- yeah. 10 Okay. Let's look at Exhibit 5. Q. 11 Do you recognize this letter? 12 Yes. Α. 13 Q. Okay. And what are you describing in here? There's a piece about the McConnells, and then there's 14 15 a piece about the 74-157 right. 16 Α. Yeah. I'm going to have to remind myself 17 what --Absolutely. 18 Q. 19 -- what this says. Α. 20 I was trying to determine futile call. mean I -- you know, futile call, even though you didn't 21 ask, I'm going to give you the definition. A futile 22 call is when an upstream junior water right is 23 24 curtailed and there is no resulting increase in beneficial use to the downstream senior. 25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

And this can happen because of channel losses and the water just doesn't get there. Or I mean it can happen for a variety of reasons. But usually it's one of those things that happens, or maybe there's been some kind of weird disconnect in the channel. like I said, I -- I -- we don't know what's happening with that channel right now. We're still doing an investigation, as a matter of fact. But in this case, you know, I wanted to see if -- I wanted to see if -- if resumption of delivery under that spring right, which we currently had curtailed, really gave any usable water back to McConnells. And so I had sent this set of instructions to the watermaster so he could, you know, run through a series of tests, as it were. A futile call is something that -- that unless it's defined -- I mean, you know, unless it's defined specifically in some document, futile call is

something that has to be determined every single year, every single place.

And so the conditions that are in 74-369 and 74-370 Scott King said, you know, could -- may have been akin to a legal determination of futile call written down in this old Reddington decree that we looked at.

I'd agree with that. 1 Α. Uh-huh. 2 Q. Okay. And though -- I mean, you know, and if --3 Α. 4 those would make water -- you know, those would make our life a lot easier if we had those marching orders. 5 In a lot of cases we do not. And so we have to make 6 these determinations -- we basically have to deal with 7 these things as they come up. 8 9 And every year is different, because the 10 flow every year is different. The channel may have 11 Different people may be calling for water. 12 the futile call determination is rarely set in stone. 13 It has to be made every year. But last year we were 14 looking at one. 15 Case-by-case, unless it's --0. 16 Α. Case-by-case, year-by-year --17 Q. Yeah. -- day-by-day. 18 Α. 19 So let's look at Exhibit 14. Q. 20 And that letter that we were just looking at was referencing Water Right 74-157? 21 22 Α. Correct. 23 So what is Exhibit 14? Q. 24 It is a proof reports of -- it's a partial Α. It's a proof report of the partial decree 25 decree.

1 issued in 2012 in the Snake River adjudication for 2 Water Right No. 74-157. It's not actually a proof report. 3 0. It's 4 actually the partial decree itself. It's the partial decree. 5 Α. Q. Yeah. 6 7 It's a copy of the partial decree. Α. Yeah. Okay. And the source tributary and 8 Q. 9 priority date for 74-157? 10 Source is springs tributary to Lee Creek. 11 Priority date is 4/1/1916. 12 0. Okay. Nothing on the face of this right 13 that would cause you to administer it any differently 14 than any other water right within the Lee Creek system 15 based on priority, based on source, based on tributary? 16 Α. No. 17 Q. Okay. No special conditions? 18 Α. No. Let's look at Exhibit 11. 19 Q. 20 Do you recognize what Exhibit 11 is? 21 This appears to be a water right proof Α. report or an abstract of -- there it is. Actually, it 22 looks like a page out of either a recommendation book 23 24 or a -- or a decree book. I don't know, because it's 25 out of context. But it does include a summary report

```
1
    of 74-157.
                 Yeah. And I would just represent to you,
 2
           Q.
    Cindy, this -- it comes out of what's called the Green
 3
 4
    Book.
 5
                 Do you know what the Green Book is?
           Α.
                 I do.
 6
 7
                        What's the Green Book?
           0.
                 Okay.
                 The Green Book is the printed report of
8
           Α.
    final decrees in the Lemhi Basin adjudication.
9
10
    forget the year, but I think it was in the '80s.
11
           0.
                 Okay. And the source and tributary for
12
    this right is what?
13
           Α.
                 Springs tributary to Lee Creek.
14
           0.
                 And I see there's some other springs
    tributary to Lee Creek on there as well.
15
16
           MR. HARRIS: Could I -- could I get a
17
    clarification really quick?
18
           MR. BROMLEY:
                          Sure.
19
                         I've actually seen a Blue Book --
           MR. HARRIS:
20
           THE HEARING OFFICER:
                                  Go ahead.
           MR. HARRIS:
21
                        -- and a Green Book.
           MR. BROMLEY:
22
                          Sure.
23
           MR. HARRIS:
                         Do you know which one --
24
           MR. BROMLEY: My understanding --
                         And they're a little different.
25
           MR. HARRIS:
```

```
1
           MR. BROMLEY:
                          Sure.
 2
           MR. HARRIS:
                         So --
                          My understanding, Rob, is this
 3
           MR. BROMLEY:
 4
    came out of the Green Book. And if you want me to,
 5
    Rob, I can just withdraw the whole line of questioning
    on this particular exhibit. I completely agree with
 6
 7
    you the cover page of this is not included.
                                                   I'm iust
8
    making a representation to Cindy it came from the Green
9
           I'm happy to withdraw the questions.
    Book.
           MR. HARRIS: No, I'm just -- I'm just wanting to
10
11
    make sure, because there is another Lemhi document
12
    where it's the source of springs, but not tributary to
13
    Lee Creek.
14
           UNIDENTIFIED SPEAKER: Yeah, [unintelligible]
15
    e-mail --
16
           MR. HARRIS:
                         Yeah.
17
           UNIDENTIFIED SPEAKER: -- showing that it's
18
    listed as springs.
19
           MR. HARRIS: So I don't know which one this one
20
    is.
21
           MR. BROMLEY:
                          Yeah.
                                So, Rob, let me just --
    I'll withdraw the questions, then, on Exhibit 11.
22
23
           MR. HARRIS:
                         Okay.
24
           THE HEARING OFFICER:
25
           MR. BROMLEY:
                          I don't want to make this
```

1	confusing.
2	Q. So, Cindy, I'm just going to withdraw the
3	questions about Exhibit 11.
4	So let's just look at Exhibit 12.
5	A. Okay.
6	Q. What's this?
7	A. Some kind of an abstract report showing
8	three different water rights that appear
9	THE HEARING OFFICER: No.
10	Q. (BY MR. BROMLEY): Let's go on
11	THE HEARING OFFICER: Exhibit 12.
12	Q. (BY MR. BROMLEY): Exhibit 12.
13	A. Oh, Exhibit 12. I'm sorry.
14	Q. Yeah. Let's go to Exhibit 12.
15	A. Need to have my good listening ears on.
16	Q. No problem.
17	A. All right.
18	Q. What's Exhibit 12?
19	A. Exhibit 12 appears to be a notice of claim
20	to a water right which was filed in the Snake River
21	Basin Adjudication in 1990 by Floyd J. Whittaker
22	representing a claim to Water Right No. 74-157.
23	Q. Okay. And the source tributary and
24	priority are?
25	A. Springs tributary to Lee Creek, priority

April 1, 1916.

- Q. Okay. Turn to page 3. It looks like it was signed -- I don't know whether you recognize the signature or not. I'm not sure that I do either, but...
 - A. It looks like F. James Whittaker.
 - Q. Okay. So then let's look at Exhibit 13.
 What's this?
- A. This is a notice of error. Notices of error were sent out -- well, if this is -- based on the date, I would -- of 2004, I would say this is a notice of error. These were sent out after recommendations had been made in the Snake River Basin Adjudication to individual water right owners so that they could review the recommendations that were going to be made by the Department and the Court.
- Q. And in your experience, you know, what would -- what was the purpose of this notice of error document?
- A. I didn't work directly in the adjudication.

 But my understanding was that the notice of error was
 to give each water right holder the chance to dispute
 the recommendation that was being made to the Court.
- Q. Okay. And so then on this form, what are you seeing that was accomplished on the form?

1	A. Mr. Whittaker checked the line that says "I
2	agree with this proposed recommendation and no changes
3	need to be made."
4	Q. Okay. And "Mr. Whittaker" being?
5	A. James Whittaker signed it.
6	Q. Okay. And that then references back to
7	Exhibit 12, which was the I'm sorry. That's the
8	that's the claim.
9	A. Yeah.
10	Q. So then we look at Exhibit 14.
11	And that ultimately is the SRBA decree;
12	correct?
13	A. Yes, that is the partial decree.
14	Q. Okay. So all of this informs you, looking
15	at Exhibit 14, that this 74-157 is a spring right
16	that's tributary to Lee Creek?
17	A. Correct.
18	Q. With a priority date
19	A. Of 4/1/1916.
20	Q. And no special other provisions necessary
21	or administrative [unintelligible]?
22	A. No. None appearing on the face of the
23	right, no.
24	Q. Okay. Thank you.
25	Let's look at Exhibit 3.

1 Are you familiar with this e-mail? It may 2 take you a second to --It's really tiny. But yes, I am familiar 3 Α. 4 with -- I am familiar with this e-mail. It came out real small. 5 0. Well, wait a minute. Α. 6 7 0. I've got a much bigger version of it if you 8 want to look at mine. 9 Okay. It is what I thought it is. Α. Yes, I am familiar with this. 10 11 0. Okay. So what do you -- what does 12 Exhibit 3 say? 13 Α. Would you turn on the other light? 14 0. Yeah. 15 That helps. Α. Well, I had forwarded this to the 16 17 McConnells, but it is a copy of an e-mail string between Rob Harris and IDWR's deputy attorney general 18 19 Garrick Baxter discussing a Supreme Court decision from back in the 1950s. 20 Okay. And if you recall, Cindy, do you 21 agree or disagree with this -- this e-mail, or have no 22 23 opinion? Well, I -- in this Mr. Baxter states that 24 Α. 25 the Department has reviewed the case, the Whittaker

1 versus Kauer, and disagrees with Whittakers' 2 interpretation of the case. And I would have to say that I agree with 3 4 that, because I was the one that brought it to Mr. Baxter's attention, because I disagreed with 5 Mr. Whittaker's interpretation of the case. 6 And what was Mr. Whittaker's 7 0. 8 interpretation? 9 As -- as told to me by Jordan and James Α. 10 Whittaker simultaneously, that they believed that this court action, which was a Supreme Court -- actually a 11 12 Supreme Court decision, had given them -- had given the 13 Whittakers exclusive right and title to a pair of 14 springs that are located on their land adjacent to what 15 is marked on the maps as Stroud Creek, and that 16 therefore that right was not administrable within Water 17 District 74Z. 18 0. Okay. So then as -- as a watermaster, 19 would you have expected -- I mean had -- had there been 20 anything in your mind to this Whittaker versus Kauer 21 case, would you have expected to see something 22 documented somewhere in the SRBA? 23 Most certainly. In fact, that's one of the Α. first things I did was to go out and look for just that 24 sort of thing. But it didn't take long to determine 25

1 that there was nothing on the face of the right. Lemhi general provisions didn't mention it. 2 The claims didn't mention it. 3 So for some reason -- and I'm not saying it 4 5 was right or wrong, but the way it was claimed, it came forward through apparently both the Lemhi and the Snake 6 River Basin decrees without any reference at all to 7 this 1956 court case. And so consequently my job was 8 to administer the right [unintelligible]. 9 10 So you're watermaster of 170. Q. Okay. Water District 74Z is a -- it's a water 11 12 district; correct? 13 Α. It is. 14 0. And does it have a measurement requirement, 15 a, you know, lockable, controllable --16 Α. Uh-huh. 17 Q. -- requirement? In 2018, shortly after the 18 Α. It does. 19 entirety of Basin 74 was added to Water District 170, 20 the Department issued a general measurement order, which applied to all of Basin 74, including Water 21 22 District 74Z. 23 That did require lockable, controllable headgates and measuring devices on all administered 24 diversions. 25

1 And it also -- the order -- taking a step The order that actually modified Water 2 back. District 170 to include Basin 74 had further identified 3 4 the rights that were to be administered by Water District 170 and its subdistricts. And that spring is 5 squarely among them. 6 And so then within the Lee Creek 7 0. Okay. system, how are -- how are water users doing with their 8 installation of measurement devices? 9 10 From what I could see, most of them were 11 already in place, you know, even at the time of the 12 There's a few discrepancies that we continue to order. 13 work on. But notably these springs, because they had been largely -- they had been unadministered by the 14 15 District forever. You know, I don't think they've ever 16 been actively administered by the District. 17 And I don't know why, but this happens from time to time, that districts just decide or, you know, 18 19 they're not going to administer something. And the 20 Department sometimes has to come back in and say, you 21 know, "We're sorry. This is in your district. need to start administering it." 22 23 So that spring was both -- there's two 24 springs. I say that spring. There's two springs. In

my mind the east spring needs a whole lot more

25

investigation and may not in fact be tributary to

Stroud Creek. And so I don't consider that really that

important to this conversation. But the west spring is

clearly tributary to Stroud Creek.

And so when I first went up to investigate that, there was no controls. There was a sort of a measuring device that was not working real well, but there had been an attempt to put some measuring device on it, but there was no controls. And so there was really no way that the watermaster would have had control over the flow of that spring.

Q. Okay. Do you know, then, Cindy -- let me ask it this way.

Have you been up to these springs?

A. I've been very, very near them. I mean they -- it does get very boggy in there. But I -- yes, I have been up there. I've looked at -- I've seen the -- at least the tail end of the collection ditches that have -- that was -- that was constructed to collect the springs.

The west spring is a complex. It's not a spring. It appears to be a complex of springs. And this, again, is very common. And so a ditch was -- was dug, was constructed to collect that spring flow and bring it out to where it could be put in one of the

Whittakers' ditches. And so I was kind of there at that junction.

But, you know, and we went back into the -into that area a little bit. But it is very boggy, so
yeah, we didn't go very far. But yeah, I've been up
there.

- Q. From what you saw, are these springs able to flow into Left Fork of Lee Creek, which has also been called Stroud Creek?
- A. They can get there. But again, I mean I have to reiterate what Mr. King said. That channel has obviously been manipulated. And I -- I don't know when, because remember, I've only been around since -- you know, I was appointed in 2015. I moved up to the area in 2016. I first visited this location last year, because I'm in charge of a really big area.

And so I don't know when this channel was manipulated, but it's clearly been manipulated to where the springs are being kept from flowing into Stroud Creek. Now, they can be turned into the creek because there's been some bypass channels built to where they can be turned into the creek. But again, there's no controls on them.

So, you know, they could be adjusted and everybody could walk away and they could be put right

back in the ditch because there's no -- there's no controls. There's no -- there's no security for the watermaster to be in charge of that water and send it where they want it, send it where it needs to go.

- Q. And the way these rights are -- this right, 74-157, was decreed, it's tributary to Lee Creek?
- A. Lee Creek, which I -- you know, okay. You have to interpret that as the Lee Creek system, you know.
 - Q. Right.

A. It's -- it's -- these names on these creeks are just labels. The Department tries to get the correct label on the source. Sometimes we miss.

So at the end of the day, rights are administered based on where they're at and how much water is flowing there. So when it says "springs tributary to Lee Creek," and I say, well, that spring really is the first named tributary to Stroud Creek, but Stroud Creek goes into Lee Creek, so at some point so -- I -- I just interpret that as that spring is tributary to the Lee Creek system.

My observation was that clearly there is enough flow that -- that if the spring was not developed it would naturally go into that system. So yeah, my call was that should be administered as part

1	of Lee Creek, Lee Creek water rights.
2	Q. Do you know if Left Fork Lee Creek or
3	Stroud Creek is still channelized in those upper
4	reaches through the Whittaker property, or is it not?
5	A. Well, the last time I was up there was
6	August 3rd, I believe, 2020. And at that time there
7	was still what appeared to be some constructed channels
8	kind of feeding this water pretty much into the
9	Whittaker system, except for, you know, what was being
LO	bypassed and and so, you know, yeah, it could
L1	conceivably be controlled and administered properly and
L2	sent downstream. There would just have to be some
L3	more some additional controls installed.
L 4	MR. BROMLEY: Okay. Thank you, Cindy. I have
L5	nothing further.
L6	THE HEARING OFFICER: Okay. Mr. Johnson, any
L7	questions?
L8	Okay. Mr. Manwaring?
L9	MR. MANWARING: Yes. Thank you.
20	THE HEARING OFFICER: Yep.
21	
22	CROSS-EXAMINATION
23	BY MR. MANWARING:
24	Q. Cindy, if I understand your familiarity
25	with the area that we're talking about is from 2016 to

1	the present?
2	A. Yes.
3	Q. And more specifically, maybe just within
4	the last year?
5	A. Well, my site visits didn't occur until
6	2020.
7	Q. Okay.
8	A. I do a lot of map reconnaissance in the
9	course of my daily work and had gone through the water
10	rights previously, but hadn't been to the area until
11	2020.
12	Q. Your first visit was last year?
13	A. Yes.
14	Q. What we call a field visit?
15	A. Site site visit, yeah.
16	Q. Site visit. Thank you.
17	Okay. And any knowledge you have about
18	historic flows or stream channels would be based upon
19	using maps or information from someone else?
20	A. Yeah, that's a fair statement.
21	Q. Okay. If you'd look at Exhibit 10, which
22	you were asked to examine.
23	Your first sentence on Exhibit 10 is "The
24	second diversion proposed by the applicant has been in
25	use for at least several decades, as evidenced by

1	aerial images and even the USGS topo map."
2	Did I read that correctly?
3	A. Yep, that's what it says.
4	Q. Okay. Is this based upon your review of
5	just maps in general, mapping that the Department has
6	or and USGS maps?
7	A. The Department has a series of aerial
8	imaging that we use with our ArcMap licensing. And
9	and some people also use Google Earth. I don't so
10	much. I but but with ArcMap we have a series of
11	aerial images from early 2000s up to 2019, and then we
12	also have access to the USGS topo maps.
13	And yeah, so in my review of just various
14	years of images, I can see that ditch in images going
15	back for, you know, at least 20 years.
16	Q. Okay. And what you're looking at then is
17	generally, if I understand, is the ditch that comes
18	from that diversion point?
19	A. The
20	Q. You're looking at the evidence of the
21	ditch?
22	A. Yeah, the evidence of the ditch coming from
23	really both diversion points, both the upper and the
24	lower.
25	Q. Right. And I was going to ask you about

1 that. 2 The upper division point has a ditch that runs from it as well; correct? 3 Α. Yes. 4 5 0. And that's pretty visible? Α. That's also visible on the images, yes. 6 7 Q. Okay. And as Mr. King testified, some images more 8 Α. so than others. You know, some images it depends on 9 the cloud cover and the vegetation cover and what time 10 11 of year the photo was taken. But yes, it appeared in 12 multiple images. The presence of a diversion doesn't 13 Q. Okay. 14 actually mean that there's a right to divert; is that 15 correct? 16 Absolutely. Α. 17 Q. As in this case? 18 Α. As in this case. 19 You mentioned in the last sentence Okay. Q. 20 of the first paragraph, "The protestants upstream on 21 Stroud Creek seem to be well aware of the ongoing use of the unauthorized diversion but were not concerned 22 about it until McConnell made call for water during 23 24 2020." 25 Did I read that correctly?

1	A. Correct.
2	Q. Do you have knowledge as to whether or not
3	the upstream protestants were aware that that diversion
4	was an unauthorized use?
5	A. I don't have any firsthand knowledge about
6	the upstream protestants.
7	Q. Okay.
8	A. Specifically it was it was the
9	Whittakers who seemed to be aware that that had always
10	been there and and the watermaster was aware you
11	know, was aware of the existence of that diversion.
12	Q. Okay. So it wasn't Tomchaks that was aware
13	of it and said it was okay with them or something?
14	A. No. Maybe perhaps that sentence was made a
15	little too generally. You know, in specific it was the
16	Whittakers that appeared to be aware that that
17	diversion had been there.
18	Q. Okay. And were they aware that it was
19	unauthorized?
20	A. I don't know if they were or not until
21	August when it they alleged to me that it was
22	unauthorized.
23	Q. Okay. All right. Now, you talk about how
24	you view a system, I think you used the word that this
25	would be the entire Lee Creek system; right?

A. Right.

- Q. And in your approach to using that system, that would include all of the tributaries that would drain into Lee Creek that would then drain into Lemhi River?
 - A. Correct.
- Q. Okay. The Department of Water Resources gets more specific when it comes to the source of someone's water right it applied to; is that correct? The Department doesn't say the Tomchaks have a water right on the source of Lee Creek, they talk about Everson Creek or Stroud Creek; correct?
- A. The Department is required by our rules to assign a source name to every water right. Again, we try to get it right. We use as our guide the USGS -- the names on the USGS map. That's usually what we defer to in source names. But sometimes people will read those wrong.

I mean Whittakers themselves have two rights that divert at that diversion there by Rosalie Ericsson's house, and one of them reads -- one of them says "Stroud Creek" and one of them says "Left Fork Lee Creek." As far as I'm concerned, it's the same water source with two different names diverted at the very same point of diversion.

So -- and this happens all the time. 1 2 not really that uncommon that the incorrect -- that an incorrect source name gets applied to a right. 3 Q. Okay. What I'm referring to, though, is 4 5 more specifically with the Tomchaks. They have water rights that the source are 6 7 Everson Creek and Stroud Creek; correct? Well, I know that they have rights. 8 Α. I -- I think -- I'm not sure which -- which source is named on 9 10 their rights. 11 Q. Okay. 12 I thought they were both Everson, but I Α. 13 could be wrong. 14 0. Yeah. But so whatever the water right says 15 the source is, that's the source the Department focuses 16 on? 17 Where the point of diversion is is Α. No. where that water right's administered. 18 19 And so if that's Everson Creek, Q. Right. 20 that's not Lee Creek, is it? 21 Α. But it's in the Lee Creek system. 22 Q. I get that. 23 Yeah. Α. But it's not Lee Creek; it's Everson Creek? 24 Q. 25 No -- well, technically, no. Α.

Q. Okay.

- A. But it is tributary to Lee Creek, and therefore it could be subject to calls from senior rights further downstream.
- Q. Depending on where that senior right source of diversion was decreed?
- A. Depending on -- well, yeah, if it's in the system. So anything in the system is subject to a call, anybody at any point in this system is subject to a call from a senior right holder who is positioned really either downstream or upstream in the system.

But since he's at the very top, mostly, you know, his calls are going to be coming from -- from down below. But a call can actually even be made from -- from upstream, because if a watermaster is in control and they've got too much delivered to a junior downstream user, the upper senior can still say, you know, "There's water flowing past that diversion, and I'm entitled to it," and the watermaster would need to go up and -- to the extent the water is available at that upper diversion would -- would deliver the water to that senior.

And so there's -- you know, there's place and there's flow. And so there's all these judgments that have to be made, because not only does the water

1 have to be in priority, it also has to be available. 2 Q. Sure. And if you -- you may have an early senior 3 4 right at the top of the drainage, and if there's no 5 water up there to deliver to you, you still don't get it. And that's another form of futile call, where you 6 7 can't call on water that's below you if there's no way to get it up to you. 8 9 So if you have a water right on Lee Creek that is upstream from Stroud Creek, for example, can 10 11 you actually call for water from Stroud Creek? 12 Well, you know, that really isn't how calls Α. 13 is made. Maybe we better -- maybe we should clarify 14 that. 15 When a water user calls for water, they 16 don't say "I want that guy's water." They say, 17 "Watermaster, I don't have my water. Please deliver it to the extent it's available." 18 19 And that's the watermaster's job to figure 20 out who, if anybody, is diverting out of priority, where the water is available, and can they get water to 21 the calling diversion. 22 23 So water --24 Q. Yeah. 25 -- calls are -- are not specific as to Α.

It's --

1 They -- they are just -- "I am source or water user. 2 calling for my water. Please, to the extent you can get it to me, please deliver it." 3 I can understand that. 4 Q. 5 Α. Yeah. And I don't have any dispute with that. Q. 6 7 What I'm saying, Cindy, is, if your water 8 right is on Lee Creek and your point of diversion that's decreed is on Lee Creek and downstream from Lee 9 10 Creek is the actual confluence of Stroud Creek and you 11 make a call and say "I want my priority water right," 12 but you can't get water from the downstream up, how are 13 you going to get it out of Stroud Creek? 14 Α. Well, in some cases you cannot. And that 15 is the watermaster's unique and sometimes burdensome 16 job is to evaluate all those factors and can that water 17 be delivered, you know, in priority or without waste. And that's part of the exercise we were going through 18 19 last year when we realized that was -- that may be --20 that may have been occurring. 21 Okay. All right. So if the water can't be Q. brought upstream, you can't call on that water? 22 23 You can't. Well, you can make a call, but Α.

it's futile. And so then sometimes you have options to

the watermaster just simply can't deliver it.

24

25

turn those juniors back on if you cannot get the water
delivered to the senior.

- Q. Sure. Okay. Great. You talk about what you've seen as the historic channel of Stroud Creek. I think you mentioned several times that it looked like there has been a diversion in the channel or some changes in the channel of Stroud Creek?
 - A. Well, I --

- Q. I shouldn't say diversion.
- A. Right. Yeah.
 - Q. I should say there's been --
- 12 A. Yeah, that did throw me off.
 - Q. Yeah, that will throw you off. That's a bad term.
 - Is -- did you notice that there was a shift perhaps in the channel of Stroud Creek?
 - A. Well, where I don't have a -- I don't have a lot of history, but -- but I think I observed the same thing Mr. King did when he was up there, is that this is a channel that is moving. You know, this is a channel that has moved. It has -- it has -- it has made side channels. It has bifurcated. It has maybe gone back and forth from channel to channel. We don't know. We honestly have not investigated it enough to know where it's happened or when.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q.

Yeah.

And yeah, I observed, very similar to what Mr. King observed, is that this is a -- this is an area of this particular system where the channel is braided. And you haven't had yourself an opportunity Q. to walk Stroud Creek from Everson Creek down to its confluence? I probably wouldn't do it. I don't know --Α. I mean it's -- I don't know that it's -- it would be a very difficult hike. I know that some people have walked a lot of it, and you'll probably hear from them later. And I have walked -- I -- I am -- the underbrush is so dense that I was having trouble getting through it. So I -- I admit that I only went into the creek where it was easy to get there. But, you know, I did go in at several different vantage points where I could to see what I could see. But no, I never walked the channel, because the underbrush was just so dense that walking was almost impossible. 0. Okay. And the topography in that area, do you agree that Stroud Creek kind of curves along on that ridge and comes down through that channel before it gets to Lee Creek? There are a couple of ridges up in there. Α.

1	A. Yeah, there's a couple ridges. And it is
2	definitely steeper up in the Stroud Creek part of the
3	drainage than it is once you get below whatever
4	confluence you're talking about.
5	Q. Okay. You mentioned in that third
6	paragraph of Exhibit 10 that the you said "Viewed as
7	a natural hydrologic change, the altered flow path of
8	Stroud Creek does have the potential to affect
9	administration of Lee Creek and Stroud Creek water
10	rights under the principle of futile call."
11	Do you see that sentence?
12	A. Yeah, uh-huh. I'm tracking.
13	Q. All right. Now, explain to me what that
14	means.
15	A. Well, it was discussed before. Mr. King
16	kind of started down that road.
17	Natural changes happen in channels. It's
18	just like kids grow up. You know, it's a statement of
19	fact. Some channels are much more prone to it than
20	others. You know, some some some streams flow
21	through less moveable strata, and so they they don't
22	move much. But this one obviously is in some alluvium
23	and it's jumped around a bit.
24	And sometimes that does change
25	administration. I mean it creates a very dynamic

situation where, you know, the rights might have been decreed when the flow regime, as Scott calls it, or -- or where the flow was in one channel and the rights were decreed, and then the flow changes, and the water user may or may not have the legal right to get to the water where it now is. And, you know -- and that was -- that was an act of nature that put that water over there.

And so, yeah, I was just simply trying to acknowledge that -- that we don't know how this has moved. And it could affect administration. But I don't know how it will until we get out there and start to administer it.

Q. Okay. The next sentence in that same paragraph, that conclusion sentence says, in part, "Certain upstream diversions remain out of compliance with control and measurement requirements."

Can you tell me what you mean by that.

- A. Yeah, I was referring to the Whittaker diversions that we had ordered to put measuring and control devices on. And as of the date that I made these comments, to the best of my knowledge, that hadn't yet occurred, so...
 - Q. Right.

A. And so what I was trying to get at there is

- that until all the diversions are met -- you know, are in compliance, it's really going to be hard to administer that area the way it's supposed to be.
 - Q. But the Tomchaks aren't somebody who's out of compliance with control measurement requirements.
 - A. Not to my knowledge. I have not been to their diversion or to Foster diversion, but the watermaster has indicated that they are in compliance with the headgate measuring device requirement.
 - Q. Okay.

- A. He was satisfied with the structures there, so I didn't go visit.
- Q. Now, as it relates to this Stroud Creek channel, from what you're describing in your testimony, Cindy, you really can't tell us whether or not the channel has jumped around upstream from the Whittakers' place or downstream, it's just in that area where you were at it looked like there were some changes in the channel?
- A. Yeah, there was -- I mean I -- I did actually walk over to where that side channel was coming in, and I did confirm with my own eyes that that side channel was in fact coming in below the McConnell diversion, and on that day appeared to be carrying the majority of the water. But I never did really figure

1 out why or how or where it was coming from. 2 Q. Okay. I just knew that it wasn't available to 3 Α. 4 McConnell, unfortunately, so, you know... Because it was below their diversion point? 5 0. Because it was below their diversion. Α. So I 6 did confirm that. 7 Okay. And that channel that you looked at 8 Q. that had the heavy flow, apparently, was that Stroud 9 10 Creek, as far as you could tell? Or do you know? 11 Α. Don't know. It was a channel. 12 0. It was a channel? 13 Α. It was a channel. It was a side channel. I really didn't -- didn't -- I don't think we know. 14 15 fact, I know we don't know. And I don't know that it 16 matters, honestly, because I think that it just kind of 17 all goes to location and availability and -- and timing. 18 19 It was coming -- it was coming out of the upper reaches, and I don't know that it's important to 20 say where it's coming from, although I'm sure we'll 21 continue to investigate it. 22 23 In that last paragraph of Exhibit 10, you Q. 24 talk about "adequate watermaster's control, that the diversions will be appropriately administered to 25

satisfy any transfer conditions and approval, and to protect existing diversions on Stroud and Lee Creeks"; correct?

A. Correct.

- Q. And tell me what you mean by that.
- A. I anticipated that -- that if the transfer -- if the Department did elect to approve the transfer, particularly with the protests, that I'd already seen -- and it could be that there was only one protestant at the time I wrote this, because I might have been writing it before all the protests came in. So maybe that's why I only referenced one protestant there at the beginning.

But given the circumstances, I figured there would be a hearing. And the Department, of course, is at its discretion, can add conditions of use or conditions of approval to transfers. And one of the primary reasons for that is to protect existing rights and existing diversions.

And so without going through the process, I couldn't predict what those conditions might have been. But knowing the types of -- of conditions that are typically applied, I feel that with adequate control and measurement on all points of diversions, no matter what conditions were put on the transfer -- unless they

1 were like crazy unreasonable, but I don't expect that, 2 but I would expect that somebody would object to them if they were crazy and unreasonable. But yeah, most 3 4 conditions could be -- could be adequately administered 5 with enough control and measuring devices. Just give me a sample of what you would 6 Q. 7 perceive as conditions applicable to this transfer. I don't really feel comfortable doing that. 8 Α. 9 0. Okay. Because I don't want to put thoughts in 10 Α. 11 anybody's head. 12 0. Like James? Mostly him, yeah. 13 Α. 14 MR. MANWARING: Do you have any thoughts in your 15 head? No, I don't. 16 THE HEARING OFFICER: Usually not. 17 He's an empty vessel. THE WITNESS: (BY MR. MANWARING): You mentioned that 18 0. 19 there were some investigations that were being made on 20 the channels up there. 21 Can you tell me what those investigations 22 are. 23 Α. The watermaster -- and again, are you 24 referring -- let me ask you before I answer. Are you referring to the -- maybe the Upper Stroud Creek 25

1 channel? 2 Q. You just mentioned in your testimony that there was some investigations that were going on up 3 I assume on everything, Lee Creek, Stroud 4 there. 5 Creek. Well, to be quite honest, I'm not really 6 7 sure, in retrospect, what I was referring to. We are 8 doing some investigations on -- with respect to this west spring. 9 10 Q. So --11 Α. The Whittakers' west spring. 12 -- the investigation relating to a spring 0. 13 that's on the Whittakers' property or --14 Α. Yes, it's the spring that's -- that's 15 represented by Water Right 74-157 and the administerability of that water with respect to the 16 17 rest of the Lee Creek water. Is there any investigation that's 18 0. Okay. 19 going on to try to determine what the channel is for Stroud Creek? 20 21 Α. Well, not at the moment. We -- not at the I had did a little bit last summer. 22 look at all the channel, as I said. Different people 23 24 have looked at different parts of the channel.

25

So I anticipate additional investigation in

the future as we try to sort this out. But I think we at one point decided that we would just wait until after this hearing --

Q. Okay.

- A. -- to see what -- to see where the Department landed.
- Q. And you mentioned also in your testimony about the springs -- I think you mentioned one of them was a tributary of Lee Creek, but you couldn't see how that could be.

Could you explain what that was.

A. Well, I think my reference was to the fact that 74-157 has -- lists two points of diversions representing two different springs or, in my mind, spring complexes, because I actually have seen them both.

And I'm a little bit puzzled as to how that right -- how they both ended up on the same right, because while one spring was clearly -- clearly appeared tributary to the Lee Creek system, the other spring appears to, you know -- and it's hard to tell because there's been development. You know, there's been a collection ditch.

But it appears that if -- absent, you know, any manmade diversions, that spring could very well

1 flow the other direction. And I'm not the only one that's made that observation. And there's other --2 there's other evidence by Mr. Contor that that spring 3 4 might in fact flow the other direction. So I kind of just removed that from my 5 immediate concern and just said, you know, let's deal 6 7 with the west spring right now, and we're going to have to look at the east spring to see if or if it does not 8 even conform to the -- to the decree, and then what we 9 will do about it. Again, it's that -- I administer 10 11 them like a see them, you know, attitude. But for the time being, I just -- you know, 12 we did order there to be a control structure and a 13 14 measuring device on the east spring. But, you know, 15 for the time being I am not attempting to administer 16 the east spring as part of the Lee Creek system. 17 could change. We reserve the right to change our mind about that. 18 19 I don't have any other questions MR. MANWARING: 20 for Cindy. Thanks. 21 THE HEARING OFFICER: Okay. Thank you. 22 Ms. Foster? 23 MS. FOSTER: I'm good. 24 Mr. Harris? THE HEARING OFFICER: Okay. 25 MR. HARRIS: Yeah.

1	CROSS-EXAMINATION
2	BY MR. HARRIS:
3	Q. Cindy, I've got several questions.
4	A. I'm so surprised.
5	Q. I know. I'm sure you are.
6	A. Sorry, I didn't mean to be trite.
7	Q. You were appointed the watermaster for
8	Water District 170 in 2015; correct?
9	A. Correct.
10	Q. And I believe you testified that the way
11	this would work with these subdistricts is you would
12	hold hands or provide guidance and support; is that
13	did I summarize your testimony accurately?
14	A. Yeah, that's that's exactly what I said.
15	And that is really my role is to I try to leave the
16	districts alone to the extent they don't need me.
17	Q. That
18	A. But
19	Q. That's
20	A if they need guidance, then I I step
21	in, and I give them whatever guidance they need.
22	Q. Well, that that's really what I want to
23	get at, because I want to understand kind of your
24	relationship with Mr. Udy.
25	Are you his boss?

- 1 I don't think that's a correct term. Α. 2 Department appoints watermasters. 3 0. Right. And as duly-appointed watermasters, they 4 Α. 5 are considered similar to as an employee of the State. Uh-huh. Q. 6 7 Watermasters -- water districts are Α. considered instrumentalities of the State. 8 Watermasters are elected by the water users in the 9 10 water district and paid by the water users in the water districts, so it's kind of -- I've always related my 11 12 job as similar to a stepparent, where I have all the 13 responsibility but none of the authority. You know, I've got -- it is certainly my 14 15 job to guide them and to tell them if I think the water 16 is not quite being administered properly and to give 17 them whatever resources I can to help them do their job 18 the best they can. 19 But they answer both to me, representing 20 the Director of the Department, and then they can also -- and they also answer to their chairman or their 21 advisory committee, who also can come in and help 22 resolve things, you know, help resolve conflict within 23

Is it --

Q.

24

25

those little -- within those subdistricts.

1 Α. So to say I'm their boss isn't really 2 accurate. Well, and I'm -- I'm asking, do you 3 0. 4 consider yourself as boss? No, I don't consider him -- I don't 5 consider myself his boss. I consider myself more --6 more his mentor. 7 Let me ask it this way. Let me ask it this 8 Q. 9 way. 10 If there's a disagreement between you and 11 him on water distribution, who's -- does your authority 12 trump his? 13 Α. Yes. And is that why you were involved with this 14 0. 15 delivery call within 74Z's Water District, is you had 16 a -- both had a disagreement on how this delivery call 17 was supposed to be administered? Objection to the phrase "delivery 18 MR. BROMLEY: 19 call." It does have legal connotations. What I understand is Ms. Yenter's been involved. 20 21 But, Mr. Harris, when you say "delivery call," I think of other things, like Conjunctive 22 Management Rules and things like that. 23 24 So my objection is to the phrasing. To the extent you're not implying a legal conclusion as to, 25

1 quote/unquote, "a delivery call," that's just simply the basis of my objection. 2 MR. HARRIS: And if I could respond. 3 In your 4 e-mail you said, "But we're not concerned about it until McConnell made calls for water during 2020." 5 So you could rule on the objection, but 6 that's the phraseology I'm using. You could call it 7 8 just a call or a delivery call, but I think they're the 9 same thing. 10 MR. BROMLEY: And, Mr. Harris, with that 11 understanding, I'm fine with that. It was just the 12 bringing it out of the chute as a, quote/unquote, 13 "delivery call." So thank you. 14 0. (BY MR. HARRIS): Okay. 15 A. So run it past me real quick so I make sure 16 I answer the right question. Or ask me again, please. 17 Q. We need the recorder to play back the 18 question. 19 A. Okay. 20 Q. No, I'm just kidding. 21 How then -- is that why you became involve 22 in this? 23 Why did I become involved? Α. 24 Why did you become involved? Q. Yeah. 25 Yeah. Α.

1 0. Was there a disagreement between you and 2 Mr. Udy on the administration? No, not between me and Mr. Udy. 3 Α. more that Mr. Udy needed my support. He had received a 4 5 call from Mr. McConnell that he wasn't getting his water. And so he went out, and he tried to deliver 6 7 the -- deliver the water. And McConnell still wasn't getting his water. 8 9 And so he called me -- well, he -- he may have even done some looking around on his own. 10 11 the point that he called me, he said -- you know, it 12 was basically "I need some help." 13 Q. Okay. "I got a situation up here and I -- you 14 15 know, I got a situation, and I'm not really sure how to 16 handle it." That's -- those are the big -- those are 17 the big things that I step into. Well, and I believe Mr. McConnell testified 18 0. 19 that he didn't start this, that he heard from you. 20 Is that -- did you hear that testimony this 21 morning? I did hear that. And I -- I did remember 22 I mean I think I had made the same -- I think I 23 that. have made the same suggestion to Mr. McConnell that 24 Mr. Cefalo may have made back in 2014, is "You need to 25

1 call for your water. You're entitled for it -- you're entitled to it." 2 And -- but then -- and so I'm not sure 3 4 exactly the series of events. I can't recall them. 5 But at some point right around the same time that all this happened and we knew that -- you know, Merritt 6 called me and said "I got this situation." 7 8 Q. Okay. 9 "I'm trying to get McConnell's water down Α. to him. I can't get it down to him. And I think I 10 11 found something. Can you come look at it?" 12 0. Mr. Bromley asked you some questions about 13 language on decrees and language needed to be there for 14 you to administer the water rights. 15 Do you recall that testimony? 16 Α. Yes. 17 Q. If two water users come to an agreement on 18 how they want to rotate water, even though they have 19 different priorities, and they tell the watermaster of 20 their agreement, would the watermaster consent to that, 21 or does it have -- does every agreement have to be on 22 the decree? 23 Well, the agreement's got to be legal, Α. 24 first off. And an agreement like that probably isn't legal, under Idaho water law. 25

But no, watermasters are not obligated and, in fact, are asked not to administer private agreements. There are certain private agreements pertaining to use of diversions and use of water that are kept off water rights on purpose because the Department does not want to be a party to those. And we don't want our watermasters delivering those kind of [unintelligible].

- Q. And I'm not suggesting the Department's a party. But if they come to an agreement to say there's only so much supply and -- but we're okay rotating back and forth, even though one would have a senior right over the other, you're saying as a watermaster you wouldn't recognize their wishes; is that --
- A. Well, I'm saying first and foremost, that's not legal under Idaho law. So they can't do it, even if the watermaster did agree to it.
 - Q. Well, if it doesn't affect --
 - A. Yes, it does, because it -- one --
 - Q. Hold on. Let me ask the question.

If you have two senior users on a creek and there's not enough water to supply water to any juniors but they decide we will -- we want to -- "I'm not going to call for my water one day. He's not going to call for it."

1	A. Okay.
2	Q. So then he gets all of it, the other
3	A. Okay. Yeah, framed that way framed that
4	way, then basically those requests framed that way
5	with no other junior users calling for water, and let's
6	say that we're down to the last two water
7	Q. Right.
8	A framed that way, the watermaster doesn't
9	enforce it. The watermaster simply responds to calls.
10	But it's up to the water users to say "I'm calling
11	today," and the other one calls tomorrow.
12	Q. I agree with you.
13	There's obviously an issue in this case
14	over where these channels come together. And I'm going
15	to be really particular about parsing language, because
16	I think what I heard you testify to, some was based on
17	evidence, some was based on just what you assume or
18	think happened. So I want to walk through that.
19	Okay?
20	A. Okay.
21	Q. Have you have you actually walked the
22	stretch no, I'm not asking that very well.
23	You did observe that there was a side
24	channel of water coming down that bypassed the upper
25	diversion point

1 I did. Α. 2 Q. -- correct? I did. 3 Α. But you're not -- but you're saying you 4 Q. don't know if that was Stroud Creek or not? 5 I don't, really. 6 Α. 7 Okay. What -- so tell me exactly what 0. 8 you've done to collect evidence on that issue. I -- I have been to both McConnell 9 Α. 10 diversions. And we walked -- and then I walked with Mr. Udy over to see where the side channel came in. 11 12 But it became real clear to me that this old body was 13 not going to crash through the underbrush to walk up So I said, "No, I can't do that." 14 the stream. 15 And so we went back out. I went -- we went 16 in where the culverts are. Everybody's talked about the culverts and where there's --17 18 Q. Here we go right here. 19 Α. Yeah. 20 Q. So --21 Α. I went to that -- I'll get the lights. I'm 22 up. 23 Let me get myself oriented here. 24 MR. BROMLEY: That was a good job of multitasking being a witness and getting lights. 25

1 I have on three hats now. THE WITNESS: 2 MR. BROMLEY: Well done. Okay. Oh, gosh, I got to get 3 THE WITNESS: 4 myself oriented. Can you back out, zoom out just a bit. 5 (BY MR. HARRIS): Q. 6 Okay. 7 Α. Thank you. That's where I thought it was, yeah. 8 Okay. Because here's the road. There are three culverts 9 10 here. And I observed -- and I mean I think this was 11 stated by Mr. King and then refuted by somebody else, 12 but I'm going to state it again, I saw water in this culvert and in that culvert. And I didn't see any 13 water in the middle culvert. 14 15 Just based on the map and standing out 16 there, I assume that this was the Right Fork of Lee 17 Creek coming down, and I expected to see Stroud Creek coming in just -- just above this road. 18 And I saw no 19 So, you know, that's -- that's what I was -water. that's -- I have looked in here. 20 21 I took GPS points here, here, and here so that I was positive I knew where I was. And I took GPS 22 points at each one of McConnells' diversions so that I 23 knew where I was. And so that's -- that's basically --24 25 I tried to take a GPS point back there in the

1 underbrush when I -- when we -- when I was looking at the side channel. And it didn't come out very 2 accurate, but I -- you know. 3 Are you referring to this as "the side 4 Q. channel"? 5 I don't know. That may be the side 6 Α. 7 channel. It might not be. Again, it's so unclear --8 Q. Okay. 9 -- that I'm not willing to call any --Α. 10 anything. 11 Q. But you in August of 2020, you asked 12 Mr. Udy to take some measurements. 13 Α. Yeah. Let's turn to Exhibit 5. 14 0. 15 Α. Thanks. Yeah. I was going to ask you what exhibit that was. 16 17 Q. Did he -- so at the bottom of that page, he said, "Obtain a measurement of total flows available to 18 19 McConnell at his authorized point of diversion." 20 Did Mr. Udy do that? You know, it seems to me that he did. 21 Α. was after we'd been up there the second time and we 22 23 had --24 Uh-huh. Q. -- been talking about, well, is this 25 Α.

1 really -- is this futile at this point, you know, to keep the spring curtailed, is this water really getting 2 down to McConnells. 3 And -- but, you know, those -- I don't have 4 5 those notes with me, Mr. Harris. But -- but evidently he obtained enough information and sent it to me to 6 7 satisfy me that -- that there really wasn't water coming down there, because I allowed the springs to 8 stay on. 9 So in the remeasurement 12 to 24 hours 10 Q. 11 later, it looked like there was -- there was no change 12 to the flows that were available at the upper point of diversion? 13 That's my general recollection without 14 Α. 15 having my notes in front of me. 16 0. Because I think the letter says forward 17 that --He did. 18 Α. 19 -- provide that information to you. Q. 20 Α. He was --21 Q. Okay. He was sending me information. We text a 22 23 That's just an easy way for us to communicate. 24 And I'd have to go back through the text messages, 25 but...

1	Q. Wouldn't that be evidence that the water
2	coming out of the Stroud Creek drainage is not going in
3	above the upper diversion?
4	A. It was evidence on that day.
5	Q. Which would be part of the evidence you
6	would collect if you had to come to a conclusion
7	A. Exactly.
8	Q on where Stroud Creek
9	A. Yeah.
LO	Q enters?
L1	A. On that day only.
L2	Q. Okay. And you mentioned that there's
L3	probably been some braiding of channels down in here?
L 4	A. Uh-huh.
L5	Q. Have you actually been on the on the BLM
L6	property where the USGS map showed the confluence of
L7	Stroud Creek with Lee Creek?
L8	A. Well, the the historic or the USGS
L9	Q. Correct.
20	A both.
21	Q. So yep, it would be right that's the
22	southeast northeast?
23	A. Yes. Zoom back out. There.
24	Well, where it shows it is right there kind
25	of where this road comes across. It shows it well,

1 I think Scott drew it right up here. I -- it's right 2 in here someplace. Here's the southeast northeast. 3 0. Α. Right. In my mind it's drawn right in --4 5 it's drawn right in here somewhere. Q. Okay. 6 7 That's where those culverts come across. Α. MR. BROMLEY: Cindy, could you just explain the 8 9 legal descriptions where you were circling with your 10 finger and gesturing "it's right in here." Where I was circling was kind of 11 THE WITNESS: 12 in between the southeast northeast and the northeast southeast of section 30. 13 14 MR. BROMLEY: Thank you. 15 Sorry, Rob. And that is where the -- all the 16 THE WITNESS: 17 And if I go over here and look at the quad map where Scott drew his circle, that's -- that's pretty 18 19 much -- the quad map actually has it coming in a little 20 north of this quarter-quarter line. I was standing here on this culvert right here where Lee Creek crosses 21 and looking for some other channel to come in. 22 just wasn't seeing anything. 23 24 Q. (BY MR. HARRIS): Okay.

So I'm not really sure where it was

A.

1	supposed to be, but
2	Q. You were asked several questions about
3	what's on the face of the decree for 74-157.
4	Mr. Bromley asked you some questions on that. And I
5	think there's two issues here. One is an
6	administration question, but one's an interpretation.
7	You would agree that Stroud Creek is
8	tributary to Lee Creek?
9	A. Yes.
10	Q. Okay. Whittakers' water right says it's
11	tributary to Lee Creek?
12	A. That's correct.
13	157 you're speaking of?
14	Q. Correct.
15	A. Yes.
16	Q. It doesn't say "Lee Creek system"?
17	A. No.
18	Q. It just says "Lee Creek"?
19	A. It does.
20	Q. Does the west and east springs flow into
21	Lee Creek proper, or do they flow into Stroud Creek or
22	neither?
23	A. The east spring I have not made a final
24	determination about. The west spring appeared
25	again and again, there had been a lot of manmade

1 construction, but it appeared to me, just from the lay of the land and some other factors, that naturally the 2 flows out of those springs would enter Stroud Creek and 3 4 then Lee Creek. So there's some issues with how that water 5 right's described. I would agree with that. And I 6 7 think you summarized it in one of your watermaster comments as well. 8 9 Uh-huh. Α. So some things could be clarified there. 10 Q. I want -- let's now turn to Exhibit 10. 11 12 This is your -- your comments on this transfer. 13 Α. Okay. I just don't see in the dark. There. That's better. 14 15 The first paragraph you say, "But they were 0. 16 not concerned about it until McConnell made calls for 17 water during 2020." 18 What -- what was that based upon, that 19 conclusion? 20 Α. Well, again, as I clarified with 21 Mr. Manwaring, I think when I wrote this maybe only the first protest had come in. And so -- but I can tell 22 you that I was referring to the Whittakers, simply 23 24 because Jordan Whittaker and I had had some brief

discussion out in the field. And it's in my notes, not

1 documented, but I remember it. 2 Q. Yeah. And it seemed like he acknowledged that 3 Α. 4 that diversion had been there and he knew about it, but -- and so I guess I just felt it just a little 5 bit -- oh, I don't know what I felt. I just thought it 6 was strange that they -- they knew it was there all 7 8 along but never said anything about it until -- until the distribution got -- you know, got ramped up and 9 10 their water was threatened to be taken away from them. And then they decided to come forward and say something 11 about that diversion. 12 13 Q. Couldn't that be because of the arrangement or agreement that they thought was still enforceable 14 15 with regard to the Kauer Ditch? 16 Α. Oh, I'm sure. Sure, it could be. 17 Q. Okay. 18 Α. But you know. 19 And correct me if I'm wrong, but you -- you Q. 20 made the decision to close the Kauer Ditch; is that 21 right? You determined it was not an authorized point 22 of diversion? 23 Α. No, that's not correct. 24 Q. Okay. I think that was done in 2014 before I was 25 Α.

```
1
    ever involved.
 2
            Q.
                 Okay. So that was done before you became
 3
    watermaster?
           Α.
                 Yeah, I've never -- I've never been to that
 4
    diversion.
 5
 6
           Q.
                 You've never been to the Kauer Ditch.
7
    Okay.
                 In the third paragraph of your e-mail you
8
9
    say, "I'm not convinced that the lower McConnell
10
    diversion is below the historic confluence of Stroud
    Creek and Lee Creek."
11
12
                 And my question is just simply, based on
13
    what?
            Is it based solely on the maps, or is there
14
    other information that you've based your conclusion on?
15
                 You know, I'm not even sure what I mean
           Α.
16
    there, Mr. Harris.
17
           Q.
                 Okay.
18
            Α.
                 Hang on here a minute.
19
                 I'm not sure what I mean there, quite
                I mean I -- I -- it might have been a
20
    honestly.
    reference to --
21
                 That's okay.
22
            Q.
23
                 Yeah.
           Α.
                 If you don't, that's okay. That's fine.
24
            Q.
                 Yeah, I'm not -- I'm not even really sure
25
           Α.
```

what I meant.

- Q. And Mr. Manwaring asked this question. It said, "Viewed as a natural hydrologic change, the altered flow path of Stroud Creek does have the potential to affect administration of Lee Creek and Stroud Creek water rights under the principle of futile call."
 - A. Uh-huh.
- Q. And is that statement based upon what you ultimately discovered in 2020, that the water was -- most of the water was coming in below the diversion, the upper diversion?
- A. Yeah. And that was just a reflection that -- that, you know, sometimes these changes happen and no one's responsible for them. They're just natural and -- but they do affect the dynamics on the stream and...
- Q. But if a water user like McConnells haven't done anything to try to put the channel back over many years but they still call for their water, and they came to you as the watermaster, what would you tell them?
- A. Well, probably what I told them last year.

 I mean we [unintelligible] --
 - Q. Which is you're -- you're stuck with the

natural channel that's there?

- A. Well, no, I -- you know, I would probably tell them the same thing Mr. King said earlier, is, you know, if they want to pursue options to alter a channel, they're going to have to get a stream channel alteration permit. They just can't go out and do that. That's against State -- State law.
- But, you know, they may have some options to either pursue a legal alteration of the channel to get the water back where they felt that it belonged or file a water right transfer to put in another point of diversion to recoup the lost water. You know, they're pursuing one of their legal options, I believe.
- Q. Yeah. I want to ask you just quick questions about stream morphology. And if you don't think you're qualified to say much on it --
 - A. I'll let you know.
 - Q. -- you'll let me know. Okay.
- High-flow events have a tendency to change stream channels; would you agree with that?
 - A. I agree with that.
- Q. So in this particular case, if the Kauer
 Ditch had been used historically to take some of those
 floodwaters, it would keep those flooding events from
 really altering those lower channels; would you agree

1 with that? Yeah, I think that's a fair statement. 2 Α. Let's have you look at your second 3 0. Okav. 4 e-mail, which is Exhibit 17. And I think in the first 5 paragraph you've identified some -- some potential legal issues with how 74-157 was decreed; correct? 6 7 Correct. Α. But it does say, you're inclined to agree, 8 Q. that in the absence of development, flows from the east 9 spring would probably not go into Stroud Creek? 10 11 Α. Yeah, that was my determination at the time 12 and --13 Q. Okay. -- I'd still stand by that. 14 Α. 15 But the west springs you would say is 0. 16 tributary to Stroud Creek, which then goes into Lee 17 Creek? That's what I observed on the ground. 18 Α. 19 I think I'm just about done. Q. I just have 20 to -- well, I'll ask this question. In a minute Mr. Whittaker, Jordan 21 Whittaker, is going to go over the diversion structures 22 that are up there. And perhaps I was mistaken, but my 23 24 understanding is that there are measuring devices in

place, and that you've actually participated in taking

1 measurements up on some of those -- some of those 2 weirs. Α. Well --3 Is that correct? 4 Q. 5 Α. By the second time I went up there, Jordan had installed a weir on the east spring. 6 don't know if that weir is still there. 7 But, you know, by the time I went up there the second time, he had --8 9 0. Yeah. -- he had installed a weir on the east 10 11 spring, and we were able to get a measurement of that. 12 Was that .8 cfs? Do you recall? 0. 13 Α. That seems correct. It was -- it was right 14 around 1 cfs. .8 might be correct. 15 Q. Okay. I don't remember. As I said, I don't have 16 Α. 17 my notes. On the west spring Jordan had installed 18 19 something akin to a submerged orifice, although only it wasn't submerged on both sides, and so it didn't really 20 fit the formula, but I went home and I played with some 21 different discharge formulas based on a submerged 22 orifice that was free flowing on one side. 23 24 And I'm not real comfortable with those 25 formulas, but I came up with something that was, if I

1 recall, somewhere just a little over 1 cfs measured through that. But I wasn't real wild about that 2 measuring device, just because it really wasn't 3 standard. And I think I had suggested that maybe he 4 5 try something different there. MR. HARRIS: Okay. I don't have any further 6 7 questions. THE HEARING OFFICER: 8 Okay. 9 Mr. Bromley, it's your witness. Did you 10 have anything more? MR. BROMLEY: 11 Yeah, just -- just one or -- one 12 or would, Cindy. 13 14 REDIRECT EXAMINATION 15 BY MR. BROMLEY: I think I heard you say that you would 16 0. 17 use -- use the USGS as a guide. 18 Α. For? 19 Location. Q. 20 Oh, well, the Department uses USGS stream names as -- as a guide for identifying water sources, 21 and particularly named tributaries, because our rules 22 say a spring or any other source that, you know, flows 23 24 into some other source you're to name the first named 25 stream as the tributary. And we use the USGS stream

names as a guide for that.

- Q. I think one of the potential consequences of this case is if you're not using something that's objective like a map, or various maps in the case of Scott King's testimony, he looked at three maps -- the USGS quad, the Lemhi map, and this 1954 engineer's map -- I think one of the consequences potentially is that if you don't use maps as a guide -- and I'm just curious whether you agree with this or not, but does that lead others within the basin to attempt to manipulate streamflow for their own benefit to the detriment of others?
- MR. MANWARING: I would object to that form of question. But I'll let you decide what you're going to do.
 - THE HEARING OFFICER: Yeah, I'm going to sustain that. That's a strange question.
 - MR. BROMLEY: That's fine. Withdraw -- I withdraw the question.

THE HEARING OFFICER: Okay.

- Q. (BY MR. BROMLEY): So, Cindy, on these east and west springs that you were discussing, the water right again is tributary to Lee Creek; correct?
- A. The face of the water right says "tributary to Lee Creek", correct.

Q. 1 So in order to alter that, a transfer would 2 be needed? That -- yes, that -- at this point, since 3 Α. 4 the Court has spoken and we have the final unified 5 decree, that would be the only way to alter. Q. Okay. 6 7 Alter the tributary, yeah. Α. And there was a transfer that was -- was 8 Q. filed? 9 10 There was. Α. 11 0. And it was -- do you recall, was it 12 withdrawn? 13 Α. Yeah, it was abruptly withdrawn. I never 14 really understood why. 15 MR. BROMLEY: Okay. I don't have anything further. 16 17 THE HEARING OFFICER: Okay. Coming around. I like nodding -- noes all the way around. 18 19 Anything more, Mr. Harris? 20 Okay. Thank you, Ms. Yenter. Back to your 21 regular duties. THE WITNESS: Back to my regular job, my day 22 job. 23 24 Mr. Bromley, you had THE HEARING OFFICER: 25 identified a couple other names, I think, on your

```
1
    potential witness list.
                Do you intend to call any -- anybody else?
 2
           MR. BROMLEY:
                         No. As I said at the beginning,
 3
 4
    Mr. Cefalo, we have three witnesses that we're going to
 5
    call.
           THE HEARING OFFICER:
 6
                                  Okay.
 7
           MR. BROMLEY:
                         You know, reserve the right at
    least to recall them if we need to. But no, no
8
9
    intention of calling anybody else. So with that,
10
    nothing further.
11
           THE HEARING OFFICER:
                                  Okay.
                                         Thank you,
12
    Mr. Bromley.
13
                 (Recess.)
14
           MS. YENTER: All right. There's that one going.
15
           THE HEARING OFFICER:
                                  Okay. Welcome back.
    We're back on the record.
16
17
                Mr. Harris, it is your turn. We've decided
18
    that you can go first among the protestants,
19
    representing -- now you represent both James Whittaker
20
    and Whittaker Two Dot Ranch. And -- and so your
    witnesses are kind of joint witnesses between those
21
    two -- those two protestants; right?
22
23
           MR. HARRIS:
                         That's correct, yep.
24
                                         So if -- go ahead.
           THE HEARING OFFICER:
                                  Okay.
           MR. HARRIS: Just because we'll take one kind of
25
```

1	out of order, just because of cattle needs.
2	So we'll have Merritt Udy come up.
3	THE HEARING OFFICER: Okay, Mr. Udy. Come on
4	up.
5	
6	MERRITT UDY,
7	having been called as a witness by Protestants James
8	Whittaker and Whittaker Two Dot Ranch, was duly sworn
9	and testified as follows:
10	
11	THE HEARING OFFICER: Mr. Udy, do you solemnly
12	affirm that the testimony you're about to give is the
13	truth, the whole truth, and nothing but the truth?
14	THE WITNESS: I do.
15	THE HEARING OFFICER: Okay. Have a seat.
16	
17	DIRECT EXAMINATION
18	BY MR. HARRIS:
19	Q. Could you please state your name and
20	address for the record.
21	A. My name is Merritt Udy. I'm at 238 Big
22	Eight Mile Road, Leadore.
23	Q. What's your current occupation?
24	A. I'm a rancher and the watermaster.
25	Q. Okay. For which water district?

1	A. 74Z.
2	Q. And how long have you held that position?
3	A. I I took over for Paul Maughan late
4	June 2019.
5	Q. And what creeks or watersheds do you
6	administer?
7	A. Big Eight Mile and Lee Creek.
8	Q. And did you say Paul Maughan was the
9	watermaster before you?
10	A. Yes.
11	Q. Did he resign?
12	A. No, I I guess he got fired.
13	Q. Okay. And did you want to become a
14	watermaster for the all the glory or the high pay?
15	A. No, I that year I had trouble getting my
16	water, so I thought it was a good idea so I could get
17	my own water, and then the pay, I guess, the small pay.
18	Q. When you first became watermaster, what
19	training did you receive?
20	A. Oh, very little. But I'm familiar with all
21	the points of diversion. I just got the book of how
22	much water to each water user, priority dates, yeah.
23	Q. And so what have you done to familiarize
24	yourself with the water rights and the diversions in
25	the Lee Creek drainage?

1 Just -- just done the job, learn as I go. Α. So you -- you visited the -- you visit the 2 Q. diversions, adjust, then measure? 3 4 Α. Yeah. 5 0. Okay. And does your water district include Stroud Creek? 6 7 Α. Yes. Okay. And you actually live kind of close 8 Q. 9 to all this; right? 10 Yeah, I do. Α. 11 Q. Okay. I've been -- I've lived there since 2012. 12 Α. 13 Q. Okay. Were you involved with the Water District prior to 2012? Did you serve on the board? 14 15 No. I've just been a water user for both Α. 16 Eight Mile and Stroud Creek. 17 Q. Okay. Are you familiar with Bruce McConnell's water rights? 18 19 Α. Yes. 20 Q. How are you familiar with them? Just what I've got in writing, that his 21 Α. 1883s, the amounts. 22 23 Q. Okay. 24 I was -- well, the -- my first day on the Α. job Bruce took me to both diversions. I didn't know 25

1	that one was not legal, but
2	Q. So
3	A. I don't even know if Bruce knew if it
4	wasn't legal. They were just his two diversions.
5	Q. But you've been to both of them?
6	A. Yeah.
7	Q. Okay. And you understand it's the lower
8	one that he's trying to add to his water rights in this
9	proceeding?
10	A. Yeah, it's the lower one that got shut off
11	last fall.
12	Q. Were you involved in a water administration
13	dispute in 2020 that involved McConnell, Cindy Yenter,
14	and the Whittakers?
15	A. Just I don't know what you mean by
16	"dispute," but
17	Q. Did Mr. McConnell call you and make a call
18	for his water?
19	A. Right. Yeah.
20	Q. Can you tell me what the what that
21	conversation was.
22	A. Basically he wasn't getting what he thought
23	he should, so
24	Q. At the upper or the lower point, or both?
25	A. I think maybe maybe just the total

1 Q. Okay. -- of the two. 2 Α. 3 0. Okay. So up in the Ericsson property, where I was 4 Α. making the adjustments, I kept -- kept adjusting, but 5 nothing would show up down below. And Whittaker had 6 7 explained to me what I was supposed to be doing, but I 8 misunderstood, so all the water was not going to Bruce 9 that I thought was going. 10 When you say up on the -- the Ericsson Q. 11 property, I'm going to have you look up here on the 12 And I know an aerial photo is sometimes a little map. 13 hard to see, but I'll represent to you what's outlined in blue is the Tomchak property, and then the Ericsson 14 15 property is there in white, kind of in this area. 16 Where were you adjusting? And I can zoom 17 in a little further. Do you recall? Right there at 74-369, yeah. 18 Α. 19 Right here? Q. 20 Α. Right there. 21 Is that the headgate that's in the yard Q. right there --22 23 Α. Yeah. -- from Stroud Creek? 24 0. 25 Yeah, it's -- it's Stroud Creek. Α.

1 Q. Okay. And --So when I would make my adjustment and it 2 Α. wouldn't show up as Bruce's, I finally walked it and 3 4 figured out... 5 When you say you walked it, you walked 6 downstream? I walked down from there. 7 Α. Yeah. And it -it all makes a turn toward 74-157. And then from 8 9 74-157 you can turn it down to Bruce. 10 Okay. And in a letter -- well, I'll have Q. you turn -- there's some binders in front of you. 11 There was a little letter that was 12 Exhibit 5. 13 addressed to you? Where would it be at? 14 Α. 15 It's -- there's a tab. It should be 5. Q. 16 Α. 5? 17 Q. Be right after that tab. Yeah. 18 Α. Okay. I got it. 19 Do you recognize that letter? Q. Yeah, I received this. 20 Α. 21 Okay. Q. As an e-mail, I believe. 22 Α. 23 So as a result of this -- was it as a Q. 24 result of this letter that you walked down through the Whittaker property? 25

1	A. Yes.
2	Q. Okay. And what what did you when we
3	get down to Mr. McConnell's upper diversion point,
4	what what did you observe down there?
5	A. So
6	Q. If I can zoom in. The red dot is his lower
7	diversion point. This dot right here is his upper.
8	A. So at the the upper, what we observed if
9	you walk into the jungle, that the Stroud Stroud
10	channel goes hits hits Lee Creek below his
11	diversion.
12	Q. Okay. And in your view, the water that was
13	coming down that side channel is Stroud Creek?
14	A. In my opinion, it's Stroud Creek. I don't
15	know what else it could be.
16	Q. Okay.
17	A. Because when you walk from the 74-157 down
18	it it stays in stays in that channel.
19	Q. Great. Thank you.
20	On this letter there's some instructions
21	there at the bottom for you to obtain some some
22	measurements.
23	Do you recall making those measurements?
24	A. Yes.
25	Q. Can you remember today what those were?

1 And if you can't, that's okay. But the first one was 2 to obtain a measurement at McConnells' authorized point of diversion? 3 Yeah, I made both -- I made measurements at 4 Α. McConnells' upper and lower, and then we sent the 5 74-157 west spring to McConnell. And I believe it was 6 about 1.2 cfs. And then 24 hours later it showed up in 7 8 McConnells' lower diversion. The upper diversion didn't seem to be affected. 9 10 Okay. In -- there's an expert report Q. 11 that's been submitted in this matter. And I don't need 12 you to refer to it, but I think it accurately states 13 that in your 2019 watermaster report, there's no record of delivery under Water Right 74-157, which are the 14 15 spring -- that's the spring right that Whittaker owns. 16 Α. Right. 17 Q. Do you know -- can you explain why that 18 wasn't in the report? 19 Basically, I didn't know what I was doing Α. 20 Took on late June, and I didn't even know that 21 spring existed. 22 Okay. I have no further questions. MR. HARRIS: 23 THE HEARING OFFICER: Okay. Mr. Bromley? 24 MR. BROMLEY: Sure. 111 25

1	CROSS-EXAMINATION
2	BY MR. BROMLEY:
3	Q. So, hey, Mr. Udy. My name's Chris Bromley,
4	attorney for Bruce and Glenda McConnell. Rob was
5	calling you "Merritt."
6	Okay if I do the same?
7	A. Sure.
8	Q. Great. So you said that that Bruce
9	called for his water.
10	Did he was it a phone call? Was it in
11	writing? Did
12	A. Just a phone call that he was low, yeah.
13	So I would go to the that 369 point and make an
14	adjustment, and it still wouldn't show up. So then I
15	walked the creek to see why.
16	Q. Okay. And so then when you walked the
17	creek down, you went down to the Whittaker place?
18	A. Yeah. I from that point of 369, I just
19	assumed it was going to Bruce and to Jordan. But when
20	you walk it, it makes a sharp turn where they've made a
21	ditch to collect the spring. And so there at that
22	spring you can make an adjustment to send it to Bruce.
23	Q. I see. So you you walked what you
24	thought was the channel, I guess, of Left Fork Lee
25	Creek or Stroud Creek?

1 Α. Yeah. 2 Q. And then you ended up on the Whittaker place? 3 Yeah. 4 Α. 5 0. And then you hit a sharp turn, is what you were saying. 6 7 And is that -- that's a collection ditch, in your mind or --8 9 It looks like they dug a ditch to collect Α. 10 the west spring. 11 0. Okay. So then did you see a channel of --12 of Left Fork Lee Creek or Stroud Creek, whatever we want to call it, then continuing on through the 13 14 Whittaker place? Or how did water then get down to 15 McConnells? 16 Yeah, there's -- there's a spot there at 17 the 74-157 west spring where you can distribute the Stroud channel and the spring or you could take the 18 19 spring to Whittaker, yeah. It was back and forth all 20 summer long on the spring that -- after -- after walking it, I figured out that the Stroud -- how to get 21 the Stroud channel to Bruce. 22 23 Okay. And how did -- why -- why, in your Q. 24 opinion, is it the Stroud channel and not something else that's at the Whittaker place? 25

1 THE HEARING OFFICER: Can you rephrase that 2 question? MR. BROMLEY: 3 Sure. THE HEARING OFFICER: Yeah. 4 5 0. (BY MR. BROMLEY): So you said you -- you put water into something to -- originally you made some 6 adjustments in water to get it down do Bruce; right? 7 Α. 8 Right. 9 And so then you walked further down and you 0. ended up at the Whittaker place, and there's this ditch 10 that's intercepting flow; is that right? 11 12 Α. Right. 13 Q. Okay. And then you did something to get water, I guess, out of the ditch and put it on 14 15 downgradient? 16 Α. Yeah, there's -- there's board -- a board 17 headgate. And then it goes -- the water then that you 18 0. 19 took out from that board headgate goes into what? It's the Stroud channel. But it's -- it 20 Α. 21 can have the spring water with it or not, whichever way you want it. 22 23 And then you think that's --Q. Uh-huh. that's the Stroud -- you think that's the Stroud 24 channel? 25

A. I I think in my opinion, it's the
Stroud channel, because you can follow it clear from
Everson.
Q. Okay.
A. Yeah.
Q. Did you walk that channel all the way down
to Bruce's place?
A. Yes.
Q. Yeah.
A. I walked it from the spring down to Bruce's
upper diversion.
Q. And then into the jungle?
A. Yeah, through the jungle, over the river,
through the woods.
MR. BROMLEY: Right. Okay. Nothing further.
THE HEARING OFFICER: Okay.
Oh, you're still back there, Steve.
MR. JOHNSON: I'm good.
THE HEARING OFFICER: Okay. Mr. Johnson, any
questions?
Okay. Mr. Manwaring?
MR. MANWARING: Yes.
THE HEARING OFFICER: Go ahead, if you've got
any
MR. MANWARING: Thank you.

1	THE HEARING OFFICER: questions for this
2	witness.
3	
4	CROSS-EXAMINATION
5	BY MR. MANWARING:
6	Q. (BY MR. MANWARING): McConnells' upper
7	diversion, is there a headgate there?
8	A. No. I don't no, I don't think there is.
9	There's just a dam.
LO	Q. Just a bank?
L1	A. Yeah.
L2	Q. So how can you measure flow of water at
L3	that bank?
L 4	A. You don't measure there. The measuring
L5	device is down the ditch quite a ways.
L6	Q. So in order to measure what's going
L7	through
L8	A. Yeah, there's no adjustable headgate.
L9	Q. Okay. There's no lockable, adjustable
20	headgate at that upper diversion?
21	A. No, not at this time.
22	Q. And the only way to measure what's coming
23	through that diversion is to go even further downstream
24	to where there's a measuring device?
25	A. Yeah.

1	Q. About how far away is that?
2	A. Oh, I'd say between a quarter mile and a
3	half a mile.
4	Q. So you really don't get a very good
5	measurement as to what's at the dam?
6	A. Not so much. His lower diversion, the
7	measuring device is a lot closer to the diversion.
8	Q. So when you were talking about making some
9	manipulations upstream on Stroud to try to get some
10	more water down, you weren't seeing anything change at
11	the upper diversion?
12	A. No.
13	Q. Were you seeing any change clear down at
14	the measuring device?
15	A. No.
16	Q. Did you check both places?
17	A. Well, I at the diversion you there's
18	nothing. You can just eyeball it, yeah.
19	Q. So there's not much to check?
20	A. No.
21	Q. So you have to go clear down to the
22	measuring
23	A. No, I pretty much I just go to the
24	measuring devices on both of the diversions. I didn't
25	spend any time at the diversions, because there's

1 nothing to adjust. 2 Q. Yeah. But the way that that Lee Creek is set up, 3 Α. 4 Whittaker and Ericsson get their water rights, and then Bruce basically gets what's left until -- if Bruce gets 5 his decree, then Tomchak and Mrs. Smith get theirs. 6 7 They get the crumbs? 0. Yeah. 8 Α. 9 Okay. You mentioned that you've 0. Yeah. 10 walked Stroud Creek and that's defined as a channel 11 from Everson? 12 Α. Well, I know where -- I know where Everson hits Stroud, so I know that that's Stroud on down. 13 And 14 I've walked it, yes. 15 Have you walked it from where Everson hits 0. 16 Stroud? 17 No, not from there. Α. 18 Q. Okay. 19 But I used to have that ranch leased, and I Α. 20 know -- I know that's pretty clear. And how do you know it's pretty clear? 21 Q. Just from driving my four-wheeler up and 22 Α. 23 down it. 24 Q. Hasn't changed over the years? I -- not with -- I wouldn't say 25 Α.

1 drastically, no. 2 Q. And from the point that -- I think you said 157 on down to the --3 To his upper diversion I have walked. 4 Α. 5 0. His upper diversion. And then you've walked Stroud Creek even a 6 7 little further to see it go below that diversion? Yeah, it -- it -- Stroud -- that Stroud 8 Α. 9 channel comes in below Bruce's upper diversion. 10 And how confident are you that's the same 0. 11 channel, that's the Stroud Creek that we're talking 12 about that flows all the way out? 13 Α. I'm confident, because I walked it from the 14 157 spring. 15 And is -- are there --0. 16 Α. And nothing --17 Q. -- other channels that confuse you when 18 you're down there, or is it a pretty straight channel? 19 It's pretty -- there's no -- like I know Α. where Porcupine hits Lee Creek, and I know where Lee 20 21 Creek is. And Lee Creek never came close to this other channel. 22 23 So back to the question I had, when Q. Okay. you're down close to where Stroud is coming into Lee 24 Creek, are there different channels in there, or is it 25

1	still one, clear channel that you walk?
2	A. Yeah, there's two channels. There's what I
3	call the Stroud channel and the Lee Creek channel.
4	Q. And
5	A. They don't they don't go back and forth.
6	Q. They don't go back and forth?
7	A. No.
8	Q. Okay. That's what I'm painfully trying to
9	get at but couldn't.
10	A. Okay.
11	Q. So thank you for that.
12	I don't think I have any other questions.
13	Thank you.
14	A. Okay.
15	MS. FOSTER: I'm good.
16	
17	EXAMINATION
18	BY THE HEARING OFFICER:
19	Q. Mr. Udy, you may have said this, and I'm
20	jotting down thoughts and notes quickly, so I apologize
21	if you've already answered it.
22	As the Stroud Creek channel comes down from
23	the Whittaker Ditch, that 369 ditch I think is what you
24	call it, and, you know, it stays in the Stroud Creek
25	channel until you until it hits this spring ditch,

maybe a ditch coming from the west springs, then that Stroud Creek water is taken out of the Stroud Creek channel at that location, at the spring -- spring area, right, or at this Whittaker spring ditch; is that right?

- A. It's hard to say what -- what was the original channel or not, because it -- this ditch that collects the spring, it looks like it's been there forever.
 - Q. It collects Stroud Creek too?
- A. Yeah, the Stroud -- Stroud Creek and the spring are in this same -- it's running -- the ditch runs opposite of the channel to try to collect the spring.
- Q. After it makes that 90-degree turn, what is the distance between that -- that intersection point between Stroud Creek and that ditch and where water then gets turned back out of the ditch into Stroud Creek? Do you have any estimate for what that distance is where you can then turn water back to the Stroud Creek channel?
- A. From the -- from like where they collect -- where they collect the spring back to the original channel? It's pretty short distance.
 - Q. Are we talking hundreds of feet? 50 feet?

```
1
    12 feet?
 2
            Α.
                 Oh, probably a hundred yards.
                 A hundred yards?
 3
            0.
                 At the most.
 4
            Α.
                 Okay. Where water then would be taken out
 5
            0.
    of the Stroud Creek channel into that west ditch or
6
    that ditch coming from the springs, then you turn it
 7
8
    back toward the Stroud Creek channel at that -- you
9
    said there was some boards that you can manipulate --
10
                 Yeah.
            Α.
                 -- turn back water back down?
11
            0.
12
           Α.
                 Yeah.
13
            Q.
                 Is that correct?
                         But this -- this has been there so
14
           Α.
                 Right.
15
    long that I can't tell where the original channel was
16
    or if this might be the original channel.
                                                 I -- but it
17
    appears that it's been dug to collect the spring,
    because the springs are sporadic through there.
18
19
            THE HEARING OFFICER:
                                          So hundred --
                                   Okay.
20
    hundred yards between those two points.
21
                 Okay.
                        Thank you.
22
                 Mr. Harris, this is your witness.
                                                      Did you
23
    have any other questions for Mr. Udy.
    111
24
25
    111
```

1	REDIRECT EXAMINATION
2	BY MR. HARRIS:
3	Q. Just to piggyback off of Mr. Cefalo's
4	testimony and I don't know if an aerial photo helps
5	or not, but there's if we zoom in, there's a circle
6	right there that's a pipeline intake.
7	Are you familiar with that?
8	A. Let's see.
9	Q. I believe the channel that you were talking
10	about collecting west springs comes in this way.
11	A. Oh, yeah.
12	Q. But I and then this is where it can be
13	turned back.
14	Is that if I zoom in, does that help you
15	out?
16	UNIDENTIFIED SPEAKER: And that's an older photo
17	that you see.
18	THE WITNESS: Yeah, I don't recognize the sheds.
19	The sheds aren't there anymore, are they?
20	UNIDENTIFIED SPEAKER: No. That was
21	THE WITNESS: Okay.
22	UNIDENTIFIED SPEAKER: a milking barn.
23	THE WITNESS: Okay. Yeah, I I recognize
24	this
25	Q. (BY MR. HARRIS): Okay. So

```
1
            Α.
                 -- spot.
                 -- Mr. Cefalo -- this is where water from
 2
            Q.
    west springs comes in, and then it goes down
 3
 4
    approximately a hundred yards, and there's a structure
    there that would turn what's left back down this way.
 5
                 Is that -- do I understand your testimony
 6
7
    correctly?
            Α.
                 Yeah.
                        Zoom out a little bit.
8
9
                 I think that ditch is right through here --
10
            Q.
                 Yep.
11
            Α.
                 -- going opposite direction.
12
            Q.
                 Yep.
13
            Α.
                 All these springs are right in here.
14
            0.
                 And then it takes the 90-degree turn --
15
                 And then it takes --
            Α.
16
                 -- and it appears --
            Q.
17
                 Yeah, and then it -- and then it -- so this
            Α.
    is your Stroud channel and it's collecting these
18
19
    springs, then --
            THE HEARING OFFICER: A ditch channel -- or the
20
    ditch, you mean?
21
                          A ditch, yeah.
22
            THE WITNESS:
23
            THE HEARING OFFICER:
                                   Yeah.
24
            Q.
                 (BY MR. HARRIS):
                                    Okay.
            Α.
25
                 So I don't know. The original channel
```

1	might have went that way. I don't know.
2	Q. But then you say after as I zoom in, it
3	looks like there's kind of an overflow. You walked
4	basically this
5	A. Yeah. I walked from right there down to
6	Bruce's upper diversion.
7	Q. And there's a road right here.
8	Are you
9	A. Yeah.
LO	Q familiar with this road?
L1	Okay. So is this the approximate location
L2	of the channel that's collecting?
L3	A. Yeah. It looks so small right now. But
L 4	there's there's quite a bit of water there.
L5	MR. HARRIS: Okay. I was just trying to help
L6	pave what you were talking about, James. That's all
L7	the questions I have.
L8	THE HEARING OFFICER: Okay.
L9	Mr. Bromley?
20	Any other parties have questions?
21	MR. BROMLEY: Sure.
22	
23	RECROSS-EXAMINATION
24	BY MR. BROMLEY:
25	Q. So, Merritt, you said that the original

```
1
    channel might have gone that-a-way, like back over to
    the left --
 2
                Is that to the west?
 3
           MR. HARRIS:
                       Yeah, this would be west, this way.
 4
 5
           MR. BROMLEY:
                         Yeah.
                Is that what you meant? It might have gone
 6
           Q.
7
    to the west, but you don't know?
                Yeah, I don't. I don't know if this is
8
           Α.
    original or if this has been dug. But this is the way
9
    the water goes. But up here where you're thinking
10
11
    you're --
12
           MR. HARRIS: Oops, sorry. I pushed the wrong
13
    button.
14
           THE WITNESS:
                         Yeah.
15
           THE HEARING OFFICER: Can you actually pull that
    back out --
16
17
           THE WITNESS: Can you go this way?
18
           THE HEARING OFFICER: -- Mr. Harris --
19
           MR. BROMLEY:
                         Yeah.
20
           THE HEARING OFFICER:
                                  -- so we can see the
21
    channel coming from --
           THE WITNESS: Up here is where you make your --
22
23
           MR. HARRIS:
                        There is it is, yep.
24
           THE WITNESS: -- your adjustments.
    assume this is Bruce's water and this is Whittakers'
25
```

1 water, so you assume it's headed to Bruce. And then 2 when you walk it, it comes down and goes -- and goes this direction. 3 (BY MR. BROMLEY): And the -- so the water 4 Q. 5 going through there has been turned into ditches, it's been channelized. 6 7 And what you're saying is you're not really sure where Stroud Creek channel was up there 8 9 originally? 10 Yeah, I don't know for originally. Α. 11 0. Uh-huh. 12 Α. But I know from -- from that point down 13 it's all in one original-looking channel. But you also said that the ditch looked 14 0. 15 like it had been there forever too? Yeah, it's -- the ditch is probably older 16 Α. 17 than me. So it's -- it's difficult to say, then, 18 0. 19 what -- what's natural, what's been human caused; is that true? 20 21 Yeah, I wouldn't know. Α. MR. BROMLEY: Nothing else. 22 23 THE HEARING OFFICER: Okay. Any other 24 questions, Mr. Manwaring? 25 MR. MANWARING: No.

1	THE HEARING OFFICER: Mr. Harris?
2	MR. HARRIS: No.
3	Thank you. Good luck with your cows.
4	THE HEARING OFFICER: Okay.
5	THE WITNESS: Thank you.
6	MR. BROMLEY: Thanks.
7	MR. HARRIS: Okay. We'll call Jordan Whittaker.
8	THE HEARING OFFICER: Okay. Come on up, Jordan.
9	
10	JORDAN WHITTAKER,
11	having been called as a witness by Protestants James
12	Whittaker and Whittaker Two Dot Ranch, was duly sworn
13	and testified as follows:
14	
15	THE HEARING OFFICER: Mr. Whittaker, do you
16	solemnly affirm that the testimony you're about to give
17	is the truth, the whole truth, and nothing but the
18	truth?
19	THE WITNESS: I do.
20	THE HEARING OFFICER: Thanks.
21	I don't think I've had you under oath in
22	any water matter before. Okay.
23	THE WITNESS: This is my first time ever
24	testifying in a water hearing.
25	THE HEARING OFFICER: All right. Good. Let's

1	make it your last.
2	THE WITNESS: Good? It's not good.
3	THE HEARING OFFICER: Make it your last. That's
4	okay.
5	THE WITNESS: It's not good at all.
6	
7	DIRECT EXAMINATION
8	BY MR. HARRIS:
9	Q. Jordan, could you please state your name
LO	and address for the record.
L1	A. Jordan Whittaker. 201 Gilmore Avenue,
L2	Leadore, Idaho 83464.
L3	Q. And are you a member of an entity known as
L 4	Whittaker Two Dot Ranch, LLC?
L5	A. I am.
L6	Q. Okay. And in your capacity as a member or
L7	manager of the LLC, you filed a protest in this matter;
L8	is that correct?
L9	A. Yes.
20	Q. Okay. And what is your current occupation?
21	A. I'm a farmer slash rancher slash irrigation
22	contractor in irrigation design.
23	THE HEARING OFFICER: Okay.
24	Q. (BY MR. HARRIS): Okay. You install center
25	pivots?

1	A. Yes.
2	Q. Okay. And Whittaker Two Dot Ranch, LLC,
3	owns farm and ranch ground in Lemhi County; correct?
4	A. Yes.
5	Q. Okay. And have you because of that,
6	have you become familiar with water rights and water
7	distribution?
8	A. Yes. Now, I've been involved in water
9	right administration my entire life.
10	Q. Are you generally familiar with McConnells'
11	transfer that's the subject of today's hearing?
12	A. Yes.
13	Q. Okay. How did you become familiar with
14	that?
15	A. I had to become familiar with it because I
16	feel I feel threatened by it.
17	Q. Okay. And I'm going to pull up I might
18	be going back and forth a little bit, but this is a GIS
19	map. And this doesn't capture all of your property.
20	But does the this green line generally
21	depict the property that Whittaker Two Dot Ranch owns
22	in this Lee Creek, Big Eight Mile drainage?
23	A. Yes.
24	Q. And the irrigation place of use for your
25	Water Pight 74-157 is depigted in that wellow single

1	hatch; is that right?
2	A. Yes, that's correct.
3	Q. Okay. And so how long has the Whittaker
4	family owned that property?
5	A. There's two different ranches there. But
6	the one to the west we've owned since the 1920s.
7	Q. Okay. And you're generally familiar with
8	where McConnells' property is located
9	A. Yes.
10	Q right?
11	And are you familiar with his points of
12	diversion on Lee Creek?
13	A. I am now.
14	Q. Okay. Have you ever have you been
15	there?
16	A. Yes.
17	Q. Okay. Do you know who the watermasters for
18	74Z were before Mr. Udy?
19	A. Yeah. We had Paul Maughan who was for
20	about half a year. I think he was 2018 and half a year
21	in 2019. Gerald Peterson did it for, I believe, a year
22	before that. And then we had Tom Udy. And then prior
23	to that it was Calvin Udy on Lee Creek.
24	Q. And was Calvin
25	A. Or Calvin Whittaker, excuse me, on Lee

1	Creek.	
2	Q	. And was Calvin the watermaster for a long
3	time?	
4	A	. Forever.
5	Q	. Okay. Is he still alive?
6	A	. No. He's passed away.
7	Q	. Okay. And this is always a loaded
8	question	, but how old are you?
9	A	. I'm 42.
LO	Q	. 42. Okay. How how how long would
L1	you say,	then, have you been familiar with this
L2	property'	?
L3	A	. You know, I was moving cows and running
L4	haying e	quipment from the time I was 5, and changing
L5	dams witl	n my dad. I've been there.
L6	Q	. Okay.
L7	A	. 37 years I would say I've been very well
L8	acquainte	ed with that property.
L9	Q	. So you you've become familiar with this
20	property	and this watershed; is it fair to say?
21	A	. Extremely.
22	Q	. Okay. And did the prior watermasters
23	adjust he	eadgates and deliver water?
24	A	. Yes.
25	Q	. Okay. What I want to do now is we'll kind

1 of go to Google Earth. And I think it would be helpful for you to just walk through your -- the distribution 2 system and point out certain features on the property. 3 So we'll start here. And just generally, I 4 believe this is --5 Α. Can I --6 7 Yeah, go ahead and stand up. 0. -- go up to the board? 8 Α. Okay. So this would be our Stroud Creek 9 10 diversion, the senior water rights for 2.4 cfs. And it 11 turns --12 So right as you stand up, I'm going to have 0. 13 you grab a book. Sorry. 14 If you could turn to our exhibit book at 15 Exhibit 159. 16 MS. YENTER: Maybe the other book. 17 THE HEARING OFFICER: I think that's that one. 18 MS. YENTER: Yeah. 19 THE HEARING OFFICER: The photos all the way at the back. 20 21 MR. HARRIS: Yeah. THE HEARING OFFICER: 22 23 Q. (BY MR. HARRIS): That picture. 24 Α. Okay. Is -- is where you're pointing there -- I 25 Q.

1	call it in the yard. And I should clarify this.
2	Whose property is this?
3	A. It's Rosalie Ericsson's now. It was my
4	Uncle Cal's.
5	Q. Okay. And so is the location you've
6	identified, is that what is depicted on that picture?
7	A. Yeah, that's the headgate that sits right
8	there.
9	Q. Okay. And so then go ahead and continue
LO	down the system.
L1	A. Okay. It yeah, it crosses the weir
L2	that's Exhibit 161 right there. There's a brand-new
L3	weir from what was there that was an old wood one, and
L4	it was starting to fail. I replaced that one prior to
L5	the irrigation season starting.
L6	Water crosses there.
L7	Q. Real quick, if you turn the page or 160,
L8	is that is that that measuring device?
L9	A. Yes. That's the one that's currently
20	there.
21	Q. Okay.
22	A. Okay. So the water goes over the weir,
23	goes into an intake for a bubbler, hits the pipeline,
24	and goes kind of north, maybe northeast just a slight
25	bit to a pivot point that's, oh it's probably

It's

1 probably a mile to the pivot point from this point 2 right here. 3 0. Okay. Α. The excess water that the -- if there's 4 5 excess water that the pivot doesn't take, it goes down this ditch, which unites with -- with bypass flow for 6 the bubbler and heads that direction. 7 Q. So this is -- right here, this is an 8 overflow ditch here to the right? 9 10 Yeah. Α. And then over here to the left is -- is 11 0. what is not diverted from Stroud Creek? 12 13 Α. That's correct. 14 0. Okay. And then at some point it crosses 15 the fence and goes into some brushy area. 16 Α. Yeah. 17 Q. Could you just describe --So this -- this was a ditch that was dug 18 Α. 19 right here to kind of keep my Uncle Cal's place from --20 or his pasture from where it just built up the ice. And so they dug this ditch to the willows. 21 And then in 22 the wintertime the ice builds up in here. 23 But what's happening now is Stroud Creek goes in here and it fans -- fans out through these 24

willows and gets -- gets to be a general mess.

1 knocked the fence down between Grady Ericsson and I.

And then it goes up to our west spring ditch and gets gathered up for multiple -- multiple locations, and then comes back into our ditch.

- Q. So let's -- let's talk about the west spring. So I'm pulling this up right here. It appears that there's a channel starting about right here that --
- A. Yeah, it starts at the fence line between us and -- and Johnson, Steven Johnson. And it just -- it just peters through here, and I don't know. We could measure it if we wanted to, but it's like a quarter of a mile long, and it picks up 5 inches here, 5 inches there, all -- all the way along. And by the time it gets over here, there's typically 80 -- 80 to 90 inches, depending on the time of year, that gets gathered up by it.
- Q. Okay. So the west springs comes in this location. And I want to back up just a little bit, because it now appears that there's a channel coming in from the east.
- A. So if you -- if you zoom out just a little bit, you can see -- see the east ditch, east springs ditch, starts almost clear back over at the road to Shanna Foster's house. But it -- it winds along and it

1 picks up little, bitty springs. It used to be a lot more effective when 2 this place was being flood-irrigated, but it's being 3 4 sprinkled now. But it used to pick up Uncle Cal's wastewater and some springs, but now it just -- it just 5 has some springs that it's picking up. 6 7 And comes -- comes back in here and about 8 the fence line --9 0. Do you want me to zoom in? 10 Yeah. Α. So at Cindy's request, I put a weir in 11 12 right here at the fence line last year. And we measured that. Her, Merritt, and I measured about 13 14 40 inches of water right there. 15 And I'm going to have you look at 0. 16 Exhibit 161. It's the last picture. 17 Α. Okay. At 161 is -- is the weir. So I don't know where the picture went to that actually has 18 19 the -- has that weir on it, but it's missing. 20 Q. Okay. So 161 is -- is not the east springs weir? 21 22 Α. No. 23 Q. Okay. 24 Α. That's the west spring weir that's there 25 currently.

- Q. Okay. I apologize. I don't know if I have any springs one.

 A. So --
 - Q. But there is --
 - A. There's a weir that sits at this location that both -- that Merritt measured and Cindy -- Cindy and I were there when Merritt measured. There was about 40 inches.
 - O. Okay.

- A. And it's a brand-new Cippoletti.
- Q. So then the -- this ditch -- well, go ahead and keep describing there.
 - A. Okay. So the -- so the -- all of this was built initially to flood-irrigate before the pivot got put in in 1996.
 - So in order to flood-irrigate this hill, the water from Stroud Creek, the water from the east springs, and the water from the west springs all got channeled to -- this is a -- this is a ridge, basically it's like a Continental Divide between -- between Lee Creek and -- and Big Eight Mile.
 - And -- anyway, this -- the Stroud Creek water, the West Fork water, and the East Fork water all came together and followed the very tippy top of this ridge and went -- went out to flood-irrigate where this

1 pivot is now. So if I zoom out --2 Q. Α. 3 Yeah. Yeah. -- just a bit. 4 Q. There was a mess of ditches out there when 5 Α. I was a kid. 6 7 Q. Okay. But now most of the time Stroud water, 8 Α. 9 there's not enough Stroud water to fill the pivot. 10 It -- it takes 3 cfs to fill the pivot, and Stroud -the Stroud water rights were 2.4. And so since 19- --11 12 well, we used to have a diesel motor that pumped it. I 13 can't remember what year we put in the gravity line. But all this water used to flow out the 14 15 ditch. And then we had a diesel pump out there that 16 pressurized the pivot. We put in a gravity line I'm 17 guessing sometime around 2000. And then we picked up the west spring water. And there's a little electric 18 19 pump that boosts it to give us enough water to run --20 to run that Harry's pivot. And there's -- there's typically some water 21 If we shut off the pivot or anything like that, 22 all the water come -- all of our water is supposed to 23 24 come down this ditch and go to areas that we flood-irrigate, which would be this -- what we call 25

1 Harry's Swamp. And then there's one more bubbler on down 2 this ditch just at that location on the edge of the 3 4 pivot that drops -- drops a mainline off the edge of 5 the hill where there's some hand lines that pick up the corners. 6 7 So ditch comes down, and then at this 0. 8 location there's --9 Yeah, there's one more bubbler right there Α. 10 that drops the mainline off the hill into -- to the --11 to the corners. You notice that the -- when you pulled 12 up the -- like -- like this area here and then this 13 area right in here. 14 0. Okay. 15 Α. And then the flood irrigation occurs --16 occurs down through there. 17 Just as a point of reference, is there Q. something constructed here now where this is disturbed 18 19 or --20 Α. That's just a big clay pit. 21 Q. Okay. The main point of reference is this tree 22 Α. has got to be -- that tree is as old as -- as there's 23 24 been people in the valley. It's amazing. So let's come back now to where all

25

Q.

Okay.

1 of these come together.

Is there a control structure there by your bubbler intake?

- A. There's a control structure right here.

 And when Gerald was administering the water, he just -he just put a little spike in the board and -- where he
 thought 50 to 80 inches was going by. And -- and then
 the -- the water was spilling -- Tom Udy -- when Tom
 Udy was administering water, the water went out up in
 the Kauer Ditch, so he didn't -- he -- I mean it was
 just an earthen dam, and the whole spring went to us.
- Q. Okay. Currently, though, this -- if there's excess water, it looks like there's a channel that comes down.
 - A. It --
 - O. Is that --
- A. It can be turned out. So prior to the 2020 irrigation season, it was -- everything with Paul was a lot of work. And so I -- I -- I had been raised knowing and understanding that the spring was ours and that McConnells received Stroud water.

And when they were no longer taking it down the Kauer Ditch, it got a lot more complicated to administer, so I put in -- I put in two weirs so that we could measure their water in and measure it back

1 out, which in effect, with a little simple algebra, you end up with how much water is left in our ditch. 2 So the water that comes down from here --3 0. 4 this is on your property? 5 Α. Correct. Have you walked from this point? Q. 6 I've walked the entire length. 7 Α. And you were here during the testimony of 8 Q. Merritt Udy just a minute ago; correct? 9 10 Yeah. Α. 11 0. Is there anything you want to add to his 12 testimony about where some of the features are with 13 this water? You know, this is -- this area here, 14 Α. 15 what -- what they're calling the channel, is -- is a ditch. And there's a ditch here. 16 17 Q. Is that the old Bohannan Ditch? That's the old Bohannan Ditch. And it --18 Α. 19 it kicked water out onto the bar on the opposite side of this knoll. 20 21 Q. Okay. I walked this section by myself. 22 I've walked it multiple times. I've walked it -- I 23 24 walked a fair amount of it with Bryce. I walked it by

I didn't walk this with Merritt.

25

myself.

1 The section -- none of you guys are -- so 2 far, with the exception of Merritt, nobody's really been right. 3 If you scroll down to where the culverts 4 5 are. 6 Q. Okay. So this deal here is not the channel. 7 Α. That's just a little -- that's just a little, piddly 8 9 spring that comes out. This is Lee Creek, and this is 10 Stroud Creek. From this area down there's -- there's a 11 12 natural ridge that -- from someone who can run grade at 13 a half an inch in a trackhoe over a quarter mile, 14 there's a substantial ridge that runs down through 15 here. I -- I, for the life of me, can appreciate why 16 me, Merritt, the sheriff, the deputy, Dave Tomchak, I 17 mean you dump some Kool-Aid in right here, you can do whatever you want, the water is not deliverable to --18 19 to this upper point of diversion. 20 Q. So you're -- you've walked it, and 21 you're --I've -- I've -- I've crawled through the 22 Α. 23 brush, number one, because I had very strong incentive 24 to walk through the brush last year, as I was watching an awful lot of my livelihood disappear. 25

1 Any other details on the irrigation 0. Okay. 2 system, your current irrigation system, that you want to point out? 3 You know, it's a pain in the ass. And it's 4 Α. 5 not my fault, I guess, would be part of it. All right. I want to talk now about the 6 Q. 7 2020 administration matter. Well, actually, let me 8 back up. There's a couple things I do want to ask you. 9 So if you want to go ahead and have a seat. 10 I'll have you switch binders. Well, we 11 won't do it that way. 12 You've been here during Cindy's testimony where she said at least preliminarily the east springs 13 14 appeared to not be tributary to Stroud Creek. 15 Did you hear that testimony? Yeah, I did. 16 Α. 17 Okay. Do you agree with that? Q. I -- I -- I agree that preliminarily -- but 18 Α. 19 I mean in my mind if you've been working around water your whole life, you should -- it's not even a 20 21 question. It's an absolute certainty that they're not tributary. I mean water doesn't run uphill. 22 ditch is cut on grade, a very -- a very flat grade. 23 Ιt 24 doesn't run very fast. It's cut there to bring that water to that ridge. It's not -- it's not a -- it's 25

1 It just not a matter that needs more investigation. 2 needs smarter people. But you -- you did have Bryce Contor go up 3 0. 4 and do a technical evaluation? No, I had Bryce come and do a 5 Yeah. hydrological analysis of it. 6 7 Okay. I want to talk to you now 0. Okay. 8 about the 2020 administration matter. When did you first in 2020 become aware 9 10 that there was potentially an issue with water distribution in this drainage? 11 12 Α. So the end of May -- I -- I had taken Merritt and I'd shown him the new weirs that I put in, 13 14 and I thought I explained how to get Bruce's water by 15 my deal. I -- and I -- I wear a million different hats 16 and go a million different places, but the last week in 17 May we didn't have our 2.4 cfs, so there wasn't any Stroud water coming down into the west spring. So the 18 19 headgate was completely shutting off any flow to go on 20 down to Bruce. And the lady that I have that was 21 changing -- changing the floodwater and kind of 22 watching over the -- I've got a slew of kids that 23 24 change pipe for me.

25

And Morena [phonetic] -- I don't speak good

1 enough Spanish, and she doesn't speak good enough English, but anyway, she kept saying that they weren't 2 hardly getting any water down to the lower bubbler, 3 4 which catches water for the -- for the pipeline. And I wasn't going there myself. I just -- I just figured 5 that the creek hadn't come up yet. 6 And then shortly after the 1st of June, 7 I -- I drove up there in person. 8 9 And if we could scroll back up, I could 10 show you where it all happened. Go back up to where that old house is on this map. 11 12 Well, I'm just -- what communication did 0. 13 you receive that there was an issue? Did that come 14 from the watermaster or directly from Mr. McConnell or 15 from another --In my recollection, it was Dave who had the 16 Α. 17 issue, because he wasn't -- they weren't getting any water. And I -- in my mind, I was like, Well, hell, 18 19 I'm not getting any water either. 20 And so anyway, I rode up here on my motorbike. And about right here on this hillside my 21 ditch is blown out and there's a slew of water just 22 pouring down into the swamp. And I knew we had some 23 24 problems, so I went up here to this headgate, switched

it to turn all the water to Bruce until I could get my

1 ditch fixed. 2 Q. Okay. And at that point in time, I believe it 3 Α. 4 would be somewhere around the 5th to the 10th of June is when Cindy became involved. And I -- I felt like 5 we'd resolved the issue because I -- after I fixed the 6 7 ditch, I went back to taking between 50 and 80 inches, enough just to get my pivot filled and run a few hand 8 9 lines, and turned the water -- the rest of the water 10 loose to Bruce. But --11 0. Let me ask you, are you familiar with the Kauer Ditch? 12 13 Α. Yeah, I'm familiar with it. 14 0. Okay. How are you familiar with that? 15 So we have a State section. Α. 16 Q. Here's 36. 17 Anyway, so if you park the horse trailer at A. Uncle Cal's place, because this road back through here 18 19 going towards Porcupine is miserable. 20 Q. Sorry. Α. 21 But anyways, you park the horse trailer to Uncle Cal's place, and then you ride your horse back on 22 this road, you cross the Kauer Ditch. Every year when 23

we're taking care of cattle up here on the school

section, we ride across the Kauer Ditch.

24

1 0. Okay. And do you know what year the Kauer Ditch was -- was officially closed? 2 I know it had water in it in 2015. Α. 3 I 4 don't -- I don't -- I don't believe it ever had any in 2016. 5 6 So just as a general matter, can you 7 describe, as you were growing up, how water was -- how 8 the Kauer Ditch was involved with water distribution in 9 this drainage. 10 So any -- any water above -- there's 4 cfs 11 goes down to Uncle Cal, 2.4 cfs goes to us. And then 12 Cal, I think, had an arbitrary number in his head. 13 Maybe it wasn't arbitrary. I see in some of the -some of the stuff you guys submitted there was a 4 cfs 14 15 quantity at one time coming from the -- coming from 16 this side. 17 But at any rate, Cal had a number. turned a number in this ditch, and then he sent 2 more 18 19 He probably didn't send the 2 that goes to him, to us. and then he filled them, filled -- filled Tomchak 20 21 and -- and Shanna up. And things got a lot more complicated when 22 Cal retired. And then after Tom Udy died, then -- then 23 24 everything got screwed up.

So since 2015 -- or you haven't seen water

25

Q.

1	in the Kauer Ditch after that year?
2	A. No.
3	Q. Okay. And now the way that water well,
4	let me let me withdraw the question.
5	A. The nice the nice thing about the
6	nice thing about that was is everything that just came
7	down here I mean Cal Cal turned us down our 2.4.
8	Everything that came in the west and the east springs
9	just we just got.
10	So there I mean there's there's a
11	giant not a giant, but there's a big this west
12	springs ditch is an earthen dam that's been there
13	been there for longer than anybody in this room's
14	probably been here.
15	Q. And and I'm just talking about what was
16	historically done.
17	But now the way water gets down to Lee
18	Creek is through your property, whereas before it was
19	turned down the Kauer Ditch, it would inject into the
20	Right Fork?
21	A. It would inject into Porcupine and then go
22	on down.
23	Q. Okay. Okay. And that arrangement, in your
24	view, was explained in the Idaho Supreme Court opinion
25	from 1954; correct?

1	A. Yeah.
2	Q. And but you would agree that that is not
3	on the face of the spring water right at this point?
4	A. No.
5	Q. Were the water rights affected by that
6	decree, were they ever amended, even in the Lemhi
7	adjudication, to describe this arrangement?
8	A. No.
9	Q. And the Supreme Court didn't say you had to
10	go file a transfer in the opinion, they just said
11	here's an agreement?
12	A. Yeah.
13	Q. Okay.
14	A. And it worked for a hundred years.
15	Q. Okay. There's been a lot of discussion
16	about so I'm going to take you back to Stroud Creek
17	and label the features. But you say you've walked
18	Stroud Creek as it during on the lower parts of
19	your property. And there's at least on the USGS
20	map, there's an indication that the Stroud Creek
21	channel came in in the southeast to the northeast.
22	Are you familiar with that property?
23	A. I am now.
24	Q. Okay. Have you located anything any
25	sort of a remnant channel on that property?

1	A. No.
2	Q. Okay. What describe for me what you
3	found there?
4	A. So water crosses out of our property, and
5	it's it's a very well-defined channel all the way
6	all the way down. And there's a pretty good pretty
7	good ridge in the middle of it.
8	Q. So there's there's an elevation change
9	right there that would direct water
LO	A. Yeah.
L1	Q further down?
L2	A. I mean it it wouldn't it's not like
L3	you could put a canvas dam at any point in that channel
L 4	and divert it over.
L5	Q. Okay. Now, in 2020 there was a letter that
L6	was sent by Cindy to Merritt Udy to do some
L7	measurements.
L8	Did you accompany him
L9	A. Yes.
20	Q with those measurements?
21	A. Yes.
22	Q. And you were here during his testimony
23	earlier?
24	A. Yeah.
25	Q. Do you agree with how he described the

measurements that were taken and the results?

A. Yeah. Yeah. No, we -- I -- that's -- you know, there were -- there were a couple things that occurred. I believe it was on the 31st of July we'd gotten the sheriff to turn our water back on, the spring water back on. And that was a Friday. And so our water ran through the weekend.

And then on Monday Cindy came back up and she said, "Well, this will be an interesting test to see whether it's a futile call." And so we -- we turned the water all back down. I wasn't -- it's not like I was excited for a test, but anyway, Cindy turned the water back down.

And when we went down to that lower point of diversion, Cindy had said, just kind of halfway in passing, and I just only halfway heard it, that McConnells only had one point of diversion. And then it took about 48 hours for the water to actually show up at the lower point of diversion.

But I was mainly intrigued, possibly -- I mean partially because I had that prick in my ear from Cindy saying there was only one point of diversion held by McConnells. And then the other interesting thing was is we observed absolutely no change in the upper point of diversion. And so all our water went down to

1 that lower one. And so I thought about that for a while. 2 And then I dug out the Green Book and looked up 3 McConnells' water rights, and then I got that map 4 essentially right there and I located the -- located 5 the point of diversion and determined that their upper 6 7 point of diversion had to be it. And at that point in time it was -- it was 8 getting late into the evening. But I walked the 9 10 channel the rest of the way down from -- through the And I found that that was Stroud channel that 11 BLM. came out below theirs and that it was a futile call. 12 And so I -- I had the sheriff and his 13 14 deputy come up, as well as Merritt. I can't remember 15 whether it was Steve or Chip. I think it was Chip. 16 UNIDENTIFIED SPEAKER: It wasn't me. 17 THE WITNESS: Yeah. I think -- and Chip came up 18

there. And so there was quite a flock of us walked it.

And, you know, you can -- you can listen to -- you can
listen to your GPS director in the car, but if it tells
you to hang a left into a lake, just because it's the
damn map doesn't mean it's right.

19

20

21

22

23

24

25

And I mean you talk about -- you talk
about -- I've heard thing things about meandering and
braided channels. And it's not a meandering or braided

1 channel. And -- and it has the soil structure that 2 it's highly erodable. Well, it's not. It's full of willows. 3 4 It -- the other thing is is that until 2000 -- 2016 there hasn't been any kind of -- any kind of flow 5 bypass -- bypass that west springs ditch. 6 that -- if -- if the Kauer Ditch has been used since 7 the '30s, it's been 90 years since there's been any 8 9 kind of -- any kind of flow go down -- go down that 10 channel. 11 In 2020 you were ultimately able to use 12 Water Right 74-157 again; correct? 13 Α. Yes. If this transfer is approved, it 14 0. Okay. 15 would add a point of diversion below the current confluence of Stroud Creek and Lee Creek; correct? 16 17 Α. Yes. Why is that a concern to you? 18 0. 19 Well, because the way the water rights are Α. structured right now, the historical administration 20 They can't call for 74-157. 21 remains the same. If you move that point of diversion down in the absence of any 22 kind of agreement, they're calling for -- for water 23 24 that they've never had. And you believe that would be an injury to 25 Q.

1 you? 2 Α. I have no doubt it would be an injury. had to -- had to cut --3 What about -- what about others on Stroud 4 Q. Creek? 5 You know, there's -- there's a 6 7 lot more injury to it than just me. There's an awful 8 lot of injury to Steve. Not just in his water 9 administration. When you -- when you take that water 10 essentially from one side of that Continental Divide to 11 the other, you make -- you make Harry's Swamp, which it 12 turned out to be last year infinitely drier. 13 And so all his water coming from Eight 14 Mile, his -- his ditch didn't work, you know. 15 0. If --Then the other thing is there's -- there's 16 Α. 17 no good channel. There's no efficient way for that water to get through there. There's places where the 18 19 creek is 100 feet wide. And so when you -- when you 20 look at Tomchak and when you look at Shan, if it's 21 taking 8 cfs going past my place, there was at least 12 cfs available up there where the Kauer Ditch is, and 22 there's only maybe 6 cfs getting down to them, you 23 24 have -- you have an awful lot of loss that's being

stood by junior water right holders that don't have

1 much to go on anyways. If the Hearing Officer were to approve this 2 Q. transfer but subordinate McConnells' water rights to 3 4 your rights and the others on Stroud Creek, would that 5 resolve your protest? No, that would -- that would resolve 6 Α. Yeah. 7 my protest. 8 Q. Okay. That's --9 Α. 10 So you don't have a problem with him using Q. 11 the lower point of diversion to irrigate his ranch, do 12 you? 13 Α. No. No. It's the administration effect potentially 14 0. 15 on you that you're concerned about? It's the administration effect on me. 16 Α. 17 Q. Okay. And if for some reason this proceeding doesn't turn out like you had hoped, is one 18 19 of your options to pursue a District Court action over 20 the agreement? It's -- it's absolutely what we have to do. 21 Α. It's too expensive. It's too big of a loss not to 22 23 pursue. 24 Q. Is that something you hope to avoid?

Oh, absolutely.

25

Α.

```
I don't know about you, Bruce, but this is
1
2
    making me old.
           MR. HARRIS: No further questions.
 3
                                                 Thank you.
           THE HEARING OFFICER:
 4
                                  Okay.
 5
                 Mr. Bromley?
           MR. BROMLEY:
                          Sure.
 6
7
                        CROSS-EXAMINATION
8
9
    BY MR. BROMLEY:
                 So hi, Jordan. Chris Bromley, Bruce and
10
           Q.
11
    Glenda McConnell.
12
           Α.
                 Yeah.
           MR. BROMLEY: Rob, could you --
13
           MR. HARRIS: Which map would you like?
14
                                                     I can
15
    pull up --
                          I think if you could just back
16
           MR. BROMLEY:
17
    out.
                         On the GIS map?
18
           MR. HARRIS:
19
           MR. BROMLEY: Yeah, I think that was -- yeah.
20
    Try to go back to, you know, where Stroud Creek comes
    into maybe that -- is it 369?
21
           MR. HARRIS: The -- this Google Earth image
22
23
    might be the best, so...
24
           MR. BROMLEY: Yeah. If you can just back out
25
    more.
```

```
1
            MR. HARRIS:
                          Oh, sorry.
 2
            MR. BROMLEY:
                           Yeah.
                                  Maybe even more.
                                                     Maybe a
    little bit more.
                        Sure. Let's give it a shot there.
 3
 4
                 So, Jordan, where is -- where is Stroud
            Q.
    Creek in -- in this look at Google Earth?
 5
                                                  Is it in the
    bottom left-hand corner, maybe?
 6
 7
                 So it's coming right along here.
            Α.
                 Yeah.
                        Kind of in at a 45 going to -- I'm
 8
            Q.
 9
    not sure -- at the top of the [unintelligible]?
10
                 Where are we -- we going to?
            Α.
                         It's --
11
            Q.
                 Yeah.
12
            Α.
                 Here?
13
            Q.
                 Yeah, I'm just taking it from the bottom
    left-hand corner.
14
15
            Α.
                 Okay.
                 Okay.
16
            Q.
                        And so that's -- that's Stroud
17
    Creek?
18
            Α.
                 Yes.
19
                 Where is -- so where's the diversion from
            Q.
    Stroud Creek?
20
21
            Α.
                 Which one?
                 Your 369.
22
            0.
23
                 369 is.
            A.
24
            MR. HARRIS:
                          Is that --
25
            Q.
                 (BY MR. BROMLEY):
                                      Sorry.
```

```
1
                 -- down in Uncle Cal's yard.
            Α.
 2
           MR. HARRIS:
                         Yeah. Did you want to see it on a
    GIS map?
 3
 4
           MR. BROMLEY:
                          Yeah, I was just trying to trace
    things, and it was a little hard for me to follow
 5
    the -- the drilled in --
6
                          360 --
 7
            THE WITNESS:
           MR. HARRIS:
8
                         Sorry.
9
            THE WITNESS:
                          That was uncalled for, Chris.
10
    [Unintelligible.]
                 (BY MR. BROMLEY): What did I say?
11
            Q.
12
            Α.
                 You said the drilled in, you started on
13
    something.
14
            0.
                 No, I was --
15
            Α.
                 Anyway.
                 Yeah. I wasn't going anywhere with it.
16
            Q.
17
    promise you.
                 Okay. All right. Fine. That's good.
18
            Α.
                                                           Mу
19
    mistake.
20
                 Right there is 369.
21
            Q.
                 Okay. So that's -- is that Stroud Creek,
22
    then?
23
                 This is Stroud Creek right here.
            Α.
24
                 Okay. So that's -- that's then the
            Q.
25
    headgate --
```

1	A. Yeah.
2	Q where you would divert water into your
3	diversion for 369?
4	A. Yes.
5	Q. Okay. So then where is where is water
6	then then measured?
7	A. Right there.
8	Q. Okay.
9	A. You could see the tail, tail coming out of
LO	the Cippoletti.
L1	UNIDENTIFIED SPEAKER: The weir.
L2	Q. (BY MR. BROMLEY): Okay. And is that still
L3	Stroud Creek?
L 4	A. No. That's our ditch.
L5	Q. Okay. So then where does Stroud Creek
L6	Rob, if you could back out. I won't use
L7	the
L8	UNIDENTIFIED SPEAKER: Right there.
L9	Q. (BY MR. BROMLEY): Where does Stroud Creek
20	go?
21	A. So since 2016 it they regulate 2.4 to
22	us, and then it comes down this ditch here.
23	THE HEARING OFFICER: Down the channel?
24	THE WITNESS: Yeah. Well, it's a ditch.
25	But anyway, it goes down the ditch, and

1 then it spreads out in the willows here. That's where 2 it goes. (BY MR. BROMLEY): Okay. 3 0. So Stroud 4 Creek -- you're in your Uncle Cal's yard there? 5 Α. Yeah. That's where the diversion -- the headgate 6 Q. 7 is --8 Α. Yes. -- the diversion? 9 0. 10 Α. Yes. Where does Stroud Creek go from there? 11 0. or12 does it not go? Does it just go into the ditches? 13 Α. Yeah. 14 0. Okay. So Stroud Creek, at your Uncle Cal's 15 place, goes into ditches? I mean so this -- this deal here is 16 Α. Yeah. 17 a ditch that takes the water out of this little pasture. And then after this ditch it just fans out in 18 19 the willows, and then it gets collected back up at 20 various points all along this. Okay. So then there are -- there are 21 Q. ditches that are taking the water -- getting back into 22 the system that you're using to irrigate? 23 24 Α. Yes. And then -- so then it continues to 25 Q. Okay.

```
1
    go through this system of ditches.
 2
                 And then you were talking about a center
    pivot that I think was designed for what was it, 3.2
 3
 4
    or --
 5
            Α.
                 3 cfs.
            Q.
                 3, yeah.
 6
 7
                 Where is at that center pivot again?
                 It would be out right here.
8
            A.
                 Okay. Is -- is that a bluff? I -- since I
9
            0.
10
    don't know the topography.
11
            Α.
                 This is a big sagebrush ridge.
12
            Q.
                 Yeah.
13
            Α.
                 Glaciers died right here and pushed that
14
    mound up.
15
                        So that -- that center pivot is up
            Q.
                 Okay.
16
    above?
17
                 Well, it's -- it's -- I mean so this ditch
            Α.
18
    here is grade.
19
            Q.
                 Okay.
20
                 The water doesn't flow uphill. So it's
    downhill from all of this.
21
            MR. HARRIS: So maybe if I can interject.
22
23
                 Google Earth does have an approximate
24
    footage.
                                   No, I don't want it.
25
            THE HEARING OFFICER:
```

1 MR. HARRIS: Okay. 2 THE HEARING OFFICER: I don't need it. Go ahead. 3 Q. (BY MR. BROMLEY): I'm just trying to 4 5 understand where that center pivot is. It's above the channel of Lee Creek down 6 7 there; is that right? Well, so there's a ridge. 8 Α. There's this 9 ridge in between us. 10 Uh-huh. Q. And Stroud would be over here. 11 Α. 12 So then backing out again, you go 0. Okay. 13 into Uncle Cal's yard where the headgate is. That's where Stroud Creek, it sounds like, 14 15 ends at his place, because you're not saying it's 16 channelized? It's going into the ditch system? 17 Α. Yeah. And then some of it's then going into the 18 0. 19 willows and then it's getting recaptured, and it's then 20 being brought down to the center pivot on the right there, and there's a divide between the center pivot, 21 which is on the east side, and the -- the Lee 22 23 Creek/Stroud Creek/Left Fork Lee Creek drainage on the 24 west side? Α. 25 Yes.

1 Q. Okay. A. 2 Yeah. So then water that's going into this ditch 3 Q. 4 system, it otherwise should have gone into Stroud 5 Creek, but there isn't a Stroud Creek to put it in to? Α. That's pretty accurate. 6 7 Q. Okay. We've been -- we've been turning loose 8 Α. 9 the -- I take between 50 and 80 inches out of the west 10 springs. 11 Q. Okay. 12 Α. That's what I was told was mine. 13 Q. Okay. And I'm -- you know, I'm just trying to understand kind of the lay of the land. And it was 14 15 really helpful to understand where all of the ditches 16 are located. 17 So then where do you think Stroud Creek -so it -- we know that it's not -- it stops, it seems 18 19 like, at Uncle Cal's place. 20 And then where do you think Stroud Creek 21 picks back up again? 22 Α. So if you want to -- if you want to zoom in right here, I think -- I think Stroud Creek went a 23 24 million different directions. I think that at some point in time there's a -- there's a ridge right here 25

```
1
    that was dug through by hand and the dirt's piled up.
 2
    You can find -- the only place that you can find open,
    exposed gravels, like a -- like a historical stream
 3
 4
    channel, is here.
 5
                 And then could you scroll that way.
                 Right here.
 6
           THE HEARING OFFICER:
 7
                                  I --
           THE WITNESS: And right through there. And then
8
9
    you can find an irrigation ditch.
           THE HEARING OFFICER:
10
                                  I'm struggling because --
11
    because this -- you know --
12
           THE WITNESS:
                          It's hypothetical.
13
           MR. HARRIS:
                         Okay.
           THE HEARING OFFICER: Well, just the map is --
14
15
    is going to be very difficult to track through all of
16
    your questions, Mr. Harris, and through these
17
    cross-examination questions. There's a lot of "here's"
    and "there's." I'm not so interested in -- in pointing
18
19
    at the map. I just want to hear how things exist on
20
    the ground.
21
           MR. HARRIS:
                         Okay.
           THE HEARING OFFICER:
22
                                  And so --
23
           MR. BROMLEY: And so that --
                                  Yeah.
24
           THE HEARING OFFICER:
           MR. BROMLEY:
                          Mr. Hearing Officer, that's what I
25
```

```
1
    was trying --
 2
           THE HEARING OFFICER:
                                  Great.
           MR. BROMLEY: -- to do, then, with Jordan, is to
 3
 4
    get the explanation, that Stroud Creek shows up at
 5
    74-369 at the diversion at Uncle Cal's place. And then
    the channel of it --
 6
                          The historical channel --
 7
           THE WITNESS:
           MR. BROMLEY: We don't -- he doesn't -- it then
8
    ends up in ditches, and we don't know where the
9
10
    historical channel was.
11
                And then my question to Jordan was, where
12
    do you think the historical -- where do you think the
13
    channel picks back up? Because we went through a
14
    series of questions from Mr. Harris about --
15
           THE HEARING OFFICER:
                                  And rather than showing me
16
    on the map, have a seat.
17
           MR. BROMLEY:
                          Yeah.
18
           THE HEARING OFFICER: And just answer the
19
    question.
               Yeah.
20
           MR. BROMLEY:
                          And -- so the map, I was trying to
21
    get my own brain oriented --
           THE HEARING OFFICER:
                                  Uh-huh.
22
23
           MR. BROMLEY: -- because we've been moving
24
    around so much to help me --
25
           THE HEARING OFFICER:
                                  Right.
```

```
-- with my question.
1
           MR. BROMLEY:
 2
            Q.
                 So, Jordan, at Uncle Cal's place, Stroud
    Creek is there, and then it goes into your headgate.
 3
                 Stroud Creek, then, isn't on your place for
 4
    some length, because it's getting --
 5
                 Yeah.
            Α.
 6
 7
                 -- channelized into ditches, it goes into
            0.
    the willows with more ditches picking it back up,
8
9
    putting it back into your -- the main ditches --
10
                 Uh-huh.
           Α.
11
            Q.
                 -- is that right?
12
           Α.
                 Yes.
13
            Q.
                 Okay. And then -- and then eventually it
    makes its way to your center pivot, which is --
14
15
            Α.
                 That's our -- that's our water rights that
16
    go there.
17
                        And again, I'm just trying to
            Q.
                 Yeah.
18
    understand the system.
19
                 So then it ends up in the center pivot,
20
    which is down there where the -- let's just loosely
21
    call it the confluence area, where the culverts are?
    It's over there to the east?
22
23
                 To the west.
           Α.
24
            THE HEARING OFFICER:
                                   To the west.
25
           MR. BROMLEY:
                          I'm sorry.
```

1 Uh-huh. THE HEARING OFFICER: 2 Q. (BY MR. BROMLEY): Okay. So that helps. The Stroud Creek channel, then, is where? 3 The Stroud Creek channel picks --4 Α. 5 there's -- there's a valley -- I mean the -- the grade, water seeks the lowest place. That's where it's going 6 7 to go. And so below the Bohannan Ditch. Hello, there doesn't appear to be any 8 OPERATOR: activity in this meeting. If you would like to stay on 9 the line until others join, please press 1. 10 11 THE HEARING OFFICER: Candice must have signed off. 12 13 We're good. Go ahead. Anyway, below the Bohannan Ditch, 14 THE WITNESS: 15 there's -- the ridges kind of become more apparent and 16 the water is in the lowest place there. 17 (BY MR. BROMLEY): Okay. So you've walked Q. downstream into the -- into the Lee Creek drainage, and 18 19 you've followed something that you think is Stroud 20 Creek or Left Fork of Lee Creek; right? 21 Α. Yes. And that's your opinion? 22 0. 23 It's what it is. I mean it's -- it's where Α. 24 the water goes. It's what -- I mean I -- I had to say 25 I agree with Bruce. I agree with Cindy. I agree with

1 I agree with everybody who -- who has seen Merritt. it, it comes out below their point of diversion. 2 And you remember the maps we've looked at? 3 0. Α. Oh, yeah. 4 Okay. And so again, it's -- your opinion 5 0. is that this channel of Stroud Creek/Left Fork Lee 6 7 Creek --You walk with your walk -- I mean if you 8 Α. 9 want to -- if you want to take your boots off, you'll 10 stay in water the whole way down. If you climb out and go to the west, you walk across dirt the whole way 11 So it's -- it's Stroud water. 12 down. 13 Q. Okay. And again, that's -- this is your opinion, because we've looked at maps. Maps have their 14 15 own opinions. Mr. King's given his opinion. 16 This is your opinion; right? 17 Α. It's -- it's the way it is. 18 Q. Okay. 19 It's not my opinion. It's the way it is. Α. 20 Q. Okay. Well, it's your observation? Α. 21 Sure. You weren't alive when this 22 Q. Okay. litigation between the Kauers and the Whittakers 23 24 happened; right? 25 No. Α.

1	Q. Okay. So again, your your statements
2	about this 1956 Idaho Supreme Court case, those are
3	also just your opinion?
4	A. They're my opinion based off of the
5	administration that I saw my entire life.
6	Q. But again, you're 42, so you were born
7	A. Yeah.
8	Q what, in the late '70s?
9	A. 1978, yep. Yeah.
LO	Q. And water is really important in this
L1	state; right?
L2	A. It's extremely important.
L3	Q. Yeah. In the Western United States it's
L4	lifeblood?
L5	A. Uh-huh.
L6	Q. It's hard to do much without water.
L7	Water rights are really important, too;
L8	right?
L9	A. Yep.
20	Q. And so the McConnells, you know, as you
21	pointed out, you went back to the Green Book, there was
22	one point of diversion.
23	McConnells are in a transfer proceeding;
24	you understand that?
25	A. Yes.

1	Q. And they're pursuing their legal remedy to
2	add a point of diversion?
3	A. Yes.
4	Q. Okay. And for something that and again,
5	it's the testimony was, and the opinion is that
6	something got missed, and they're pursuing their legal
7	options today to make a change.
8	You understand that?
9	A. Yes.
10	Q. Okay. So this 74-157 right, since water is
11	important I don't know if you recall the testimony,
12	but the documents have consistently shown throughout
13	history into the SRBA that these were springs tributary
14	to Lee Creek.
15	MR. HARRIS: I'm going to object. That
16	misstates what is in the Lemhi adjudication documents.
17	MR. BROMLEY: Okay. So I'll I'll rephrase
18	that, Rob. That's fair.
19	Q. In the Snake River Basin Adjudication, this
20	74-157 was claimed as Lee Creek I'm sorry, springs
21	tributary to Lee Creek; correct?
22	A. That's the way it appears on the paper.
23	Q. Yeah. And we looked at a notice of error
24	form that was signed by James Whittaker agreeing with
25	that.

1	Do you remember that?
2	A. Yes.
3	Q. Okay. And then the SRBA decree comes out,
4	and it explains springs tributary to to Lee Creek?
5	A. Yes.
6	Q. Okay. So then I mean I fully appreciate
7	that you understood that something was something was
8	wrong with 74-157, because if you turn to Exhibit 15 in
9	the white book that you've got there.
10	A. Well, appreciating that something was wrong
11	with it, I I don't know that I agree with that
12	statement.
13	Q. Okay. So let's let's look at
14	Exhibit 15.
15	A. I gotcha.
16	Q. Yeah. Can you turn to Exhibit 15, because
17	I'm not sure that you're
18	A. I've got it right here.
19	Q. Yeah. That's not 15.
20	A. 1-5. [Unintelligible.]
21	Q. Yeah, there you go. Exhibit 15 at the
22	bottom right.
23	A. Yeah. Sorry.
24	Q. Okay. So do you know what this document
25	is?

1	A. No.
2	Q. Okay. I'll represent to you it's a water
3	right transfer receipt at the top corner.
4	Transfer No. 84508?
5	A. Yes.
6	Q. Okay. And it was filed by James Whittaker
7	and Paula Whittaker?
8	A. She's deceased.
9	Q. Okay. Who's James Whittaker?
10	A. That's him right there.
11	Q. Okay. Your father?
12	A. Yes.
13	Q. So let's turn to the second page, then, of
14	this application for transfer.
15	And do you see a line A at the bottom,
16	"Purpose of Transfer"?
17	A. Yes.
18	Q. And line 1, and then there's a box that's
19	checked "Other," correct, "Tributary"? Do you see
20	that?
21	A. Yes.
22	Q. Okay. And this this then has to do
23	with if you flip to the page 3, Water Right 74-157,
24	do you see that up there at the top?
25	A. Yes.

1	Q. Okay. And so then back on page 2, if you
2	flip back one page to "Purpose of Transfer," see the
3	line 3, "Describe your proposal in narrative form"?
4	A. Yes.
5	Q. And what is it what's written in the
6	underline part of that?
7	A. "The transfer proposes to update the
8	identified tributary. This water right utilizes water
9	from the identified source of springs to extinction.
10	The source springs does not actually flow into a
11	tributary water stream. No change to the point of
12	diversion rate, diversion rate, stock water amount, or
13	irrigation acres will be changing with this transfer."
14	Q. Okay. So what that you know, what do
15	you think that's saying in in plain English?
16	A. Well, what it's saying is that we didn't
17	feel like the tributary belonged on there. But what
18	the conclusion that we reached is, like Cindy said,
19	where your water right is or your point of diversion is
20	is where you're where you're allowed to divert.
21	And so we felt like with there was
22	with Bruce McConnell's single point of diversion, he
23	didn't have the ability to call for this water right.
24	So in effect, it was correct.
25	Q. Okay. So McConnell has senior priority

1 dates, 1883? 2 A. No. Some of his water rights; correct? 3 0. Well, he can. But it's a futile call to 4 Α. call for this water, because he can't get it, so the 5 water right was protected. 6 7 And I recall Ms. Yenter saying that 0. Okay. a futile call then is -- you know, you mentioned futile 8 9 call is a case-by-case determination? 10 Α. Yes. So then this transfer, if you'd turn 11 0. Okay. 12 to Exhibit 18, was then withdrawn? 13 Α. Yes. 14 0. Is that what that says, "Withdrawal of a 15 transfer"? 16 Α. Yes. 17 Q. Okay. And do you know why it was withdrawn? 18 19 Α. Because -- because it was a futile call, and we felt like -- felt like the water right worked 20 21 the way it was, the way it was intended to work. the historical administration stand. 22 23 Okay. But for some reason you thought you Q. needed to file a transfer, and then you changed your 24 mind; is that -- is that accurate? 25

1	A. Yeah.
2	Q. Okay. And you understand that the
3	McConnells are here trying to pursue the legally
4	correct thing?
5	MR. HARRIS: I'm going to I'm going to
6	object. I think we've gone through this. It's been
7	asked and answered before, this question about
8	McConnells going through the transfer process. I think
9	he's answered why he withdrew it. So I think we've
10	gone through this before. That's my objection.
11	THE HEARING OFFICER: Okay. Your question was
12	the McConnells are seeking to add a second point of
13	diversion?
14	Q. (BY MR. BROMLEY): So your understanding is
15	there's a legal way to pursue corrections to water
16	rights, and a transfer is one of those ways; correct?
17	A. Yes.
18	Q. Okay.
19	A. But for a transfer to proceed, there can't
20	be injury to water rights.
21	Q. And
22	A. And you guys injure my water right with
23	this transfer. So you put some conditions in there, we
24	all move forward, and we go on with life.
25	Q. Okay. And that Jordan, I completely

1 And that's why we're in a contested understand that. 2 case proceeding, and we have a Hearing Officer who's going to make that determination, because everybody in 3 4 here has their own opinion, otherwise we wouldn't be in 5 here. That Kauer Ditch point of diversion, that 6 7 was -- it's further up -- up drainage --Yeah. 8 Α. 9 0. -- right? Yeah, it's up -- it actually is on 10 11 Tomchak's ground. 12 But I don't believe we've seen that point 0. 13 of diversion described on any of the water rights; is 14 that true? 15 Α. That's true. It was theirs. As far as --16 as far as we were concerned, we -- we -- we moved 17 through the SRBA process as best as we could. We have an awful lot of water rights to wade through. 18 And so 19 long as things like -- like they were represented to us 20 with the SRBA, so long as the administration stayed the 21 same as they were. We weren't going to mess with McConnell because we didn't want McConnells' water. 22 We wanted him to have his. 23 24 MR. BROMLEY: Okay. Okay. Nothing further. 25 THE HEARING OFFICER: Okay.

1	Any questions for this witness,
2	Mr. Manwaring?
3	MR. MANWARING: Yes.
4	THE HEARING OFFICER: Go ahead.
5	MR. MANWARING: Thank you.
6	
7	CROSS-EXAMINATION
8	BY MR. MANWARING:
9	Q. Back on Exhibits 159, 160, and 161.
LO	A. Okay.
L1	Q. I just want to make sure we're clear,
L2	because I'm still somewhat fuzzy here. Not personally,
L3	but I could be.
L 4	Exhibit 159 is a headgate?
L5	A. Correct.
L6	Q. Is that headgate in Stroud Stream or is
L7	that in your ditch?
L8	A. It's in the Stroud Stream.
L9	Prior to the irrigation system, though, we
20	had lockable headgates, as Cindy asked for. So we'll
21	be putting one in here in the next week or so.
22	Q. So 159 is a headgate but that's in the
23	stream channel?
24	A. Yeah. Prior to 2015 all the water that
25	came down there just went to us, because the Kauer

1 Ditch was in existence. So the water that didn't go to us either went to Cal or it went to McConnell or it 2 went to Shanna, Tomchak. 3 Okay. I just want to make sure where that 4 Q. 5 headgate [unintelligible]. Α. Yes. 6 7 Exhibit 160, I think you said, is the weir? Q. 8 Α. Yes. And is that the same as 161? 9 0. This weir -- this weir's on Stroud 10 Α. No. 11 Ditch. 12 When you say "this" one, which one do you Q. 13 mean? The 160. 14 Α. 15 160 is on the Stroud Ditch? Q. 16 Α. Yes, it's our upper -- upper point of 17 diversion. And when you say "Stroud Ditch," is that 18 0. 19 the ditch you made, or is that the Stroud Stream 20 channel? This is a ditch we made, a ditch somebody 21 Α. made a long time ago. 22 23 Okay. And that's the measuring device for Q. 24 that ditch? 25 Α. Yeah.

1 161 is what? 0. Okay. 2 Α. 161 is an open 2-foot Cippoletti right now. And it -- it measures accurately as an open Cippoletti. 3 But what I've done to try and alleviate the situation 4 earlier was I -- there's bolt holes in it where you 5 could put a plate down to where it essentially will 6 only allow close to 80 inches through it, and then it 7 8 forced the rest of the water out of our ditch down towards McConnell. 9 10 So where is 161 located? Q. 11 Α. 161 is located -- you know that little 12 round -- funny, little, round thing that they pointed out up there? It's just upstream from that. 13 14 0. Oh, okay. Your funny, little, round thing 15 was a [unintelligible] --It's an intake screen for -- for the 16 17 pipeline that -- there's a little pump there that pressurizes the spring water into the pivot system. 18 19 Q. And I think you said that was a pump right 20 there? 21 Yeah. The round thing's a screen, and then Α. there's a pump just beside it. 22 23 Okay. All right. Now, you've been talking Q. about walking that Stroud channel, particularly from at 24 least where the culverts are? 25

1 Α. Yes. That's where the most people have 2 walked it. And it's your testimony that you can stay 3 0. 4 within a clear channel when you're walking the Stroud 5 Stream? Yes. Yes. Sorry. 6 And that -- that Stroud channel is 7 0. unable -- is separated from the Lee Creek channel by a 8 rise in elevation of some kind? 9 10 Yeah, there's -- there's a pretty 11 substantial ridge between the two of them most of the 12 way down. 13 Q. What about upstream from the culverts, is there still an elevation between them? 14 15 Α. Yeah. The elevation actually gets greater 16 when you go upstream from the culverts. You can see on 17 the map, if you want to look. But it doesn't really matter to me, that there's a -- there's an actual 18 19 ridge --20 0. You can just tell me. -- there that comes kind of down Johnson's 21 Α. fence line and ours that separates it, separates it. 22 And there's -- hasn't been -- hasn't been any 23 24 modification in any time. And would that same ridge elevation exist 25 Q.

- 1 on past where you've been talking about, the east 2 springs and the west springs? 3 Α. Yes. Yeah, it's what separates Stroud 4 Creek from Porcupine. Okay. So even if you have ditches around 5 your springs area, you still have an elevation between 6 that Stroud tributary channel and what would be over on 7 Lee Creek? 8 Yeah, it didn't -- it didn't -- it didn't 9 Α. flow to Lee Creek up -- upstream. It's -- it's too big 10 11 of a ridge. You're... 12 You were being asked about where the Stroud 0. 13 channel was on Cal's place. I just want you to -- can you explain, if 14 15 you know, whether that historic stream channel is still 16 visible somewhere on that area, or it's if it's just in the ditch? 17 There's -- there's an historic -- there's 18 Α. 19 gravel that looks like a hundred-year-old stream channel kind of towards the far right. And it -- it --20 to me it actually looks like at one time -- at some 21 point in history Stroud's been tributary to Big Eight 22 Mile, instead of Lee Creek. But it hasn't been -- I 23

Is there a channel along that right-hand

24

25

don't know.

Q.

1 side of those trees you can see depicted on this map? No, there's not. 2 Α. That's a fence line that you see right there, and that's uphill in elevation. 3 [Unintelligible.] 4 Q. So this -- this is a -- this is a jack 5 Α. fence right here, and this is an old wire fence that 6 the trees have all grown into right here. And this is 7 where the water goes right now. 8 And part of the Stroud Creek channel 9 0. Okay. 10 as it goes through I think it's Rosalie's place --11 Α. Yes. 12 0. -- is there an old overgrown weir dam or 13 something in there that causes an obstruction of flow? There's lots of stuff in there that pushes 14 Α. 15 it out of the -- pushes it all over. 16 0. Is that part of the problem that you're 17 facing when you're trying to re-collect the flow from Stroud Creek? 18 19 That's -- that's -- that's one of the main Α. 20 issues. If there's a heavy runoff year or a heavy 21 Q. downpour, let's say, how does the water flow all the 22 way down through Stroud? Does it have to go through 23 24 headgates or --Yeah, if there's -- so prior to -- prior to 25 Α.

1 '16 if there was any kind of heavy flow, it would go on around into our place and probably blow out the ditch 2 like it did again this year. But there -- there's not 3 4 anything that would make it over the dam without --5 without opening that -- without -- without having the 6 headgate open. 7 And from what you were able to determine, I 0. think you said even this last year, you can't like 8 9 put -- I think you said drop some Kool-Aid in the 10 [unintelligible] --11 Α. Yeah, you -- you --12 0. -- Stroud and put it in Lee Creek? 13 Α. -- could put a bunch of dye in. You could put whatever you want in it. It's not going to -- it's 14 15 not going to go over above their point of diversion. That's the simplest way, if you want to see it. 16 17 Q. You were asked by Mr. Bromley whether it was your opinion that the Stroud Creek channel goes 18 19 downstream from the upper diversion point at 20 McConnells. 21 Do you remember those questions? Yeah. 22 Α. Yeah. 23 Were you just rendering an opinion, or were Q. you stating your observation? 24

25

Α.

I was stating -- stating an observation,

1 stating -- stating the way it is. I'm not an attorney. It's black or it's white. The water -- that's where 2 3 the water goes. MR. MANWARING: I don't think I have any other 4 questions, Jordan. 5 THE HEARING OFFICER: 6 Okay. 7 **EXAMINATION** 8 9 BY THE HEARING OFFICER: 10 Mr. Whittaker, would you turn to 154. Q. This 11 is that engineer's map. 12 So, you know, we're -- at this main 13 diversion dam that you have on Stroud Creek, you say 14 that that -- that the water passing the dam, that you 15 aren't diverting, that the water passing the dam is a ditch. 16 17 What makes you say that that's a ditch? Because below it, it's the Bohannan Ditch. 18 Α. 19 And so they -- they cut what seeped out of the dam into 20 a ditch. And then there was another ditch that came 21 over, and it forced it all out the Charlie Bohannan 22 Ditch. 23 In this -- and you almost have to have Q. maybe a little bit of a magnifying glass --24 In the Bohannan Ditch. 25 Α.

1 -- can you identify, then, that location of Q. 2 your Stroud Creek diversion on this map? Give me just a second. The actual thing is 3 Α. 4 a lot bigger to look at. Yeah, I'm sure that the original is a lot 5 bigger. 6 7 So what was the question? MR. HARRIS: Here's --8 9 0. (BY THE HEARING OFFICER): Can you 10 identify --11 MR. HARRIS: Do you want me to --12 THE HEARING OFFICER: Yeah, that's fine, if you 13 want to zoom in. 14 0. Can you identify on this map your point of 15 diversion on Stroud Creek --16 Α. Okay. 17 Q. -- that main ditch that takes off. Do you see it says "John Whittaker house"? 18 Α. 19 Yep. Q. I believe that little letter "e" 20 Α. Okay. 21 there. So at least on this map, Mr. Whittaker, 22 0. that -- that channel headed off or that continues on to 23 24 the west on that -- sorry, on the west side, is identified as Lee Creek? 25

So this was taken from a -- it wasn't just 1 Α. It was -- it was taken from an aerial. 2 hand drawn. And so I think if you'd lay that on the USGS line, it 3 would probably -- probably line up with what that map 4 5 said and doesn't reflect what was actually there. But at least on this map, the -- the Left 6 7 Fork of Lee Creek channel continued on past the -- the 8 Floyd J. Whittaker Ditch? 9 Α. Yeah, according to the map. There was some natural channel that 10 Q. Okay. 11 continued? 12 Α. Yeah. 13 Q. And it follows roughly that same direction 14 of the channel that's there; is that true? 15 Α. I -- yeah. 16 0. Okay. Okay. And at least on this 1954 17 map, it then winds to the north until there's some intersection here with the -- the Floyd J. Whittaker 18 19 Ditch, west springs ditch, I guess what we've been 20 calling west springs ditch --21 Α. Uh-huh. -- and that there's some intersection 22 0. 23 there. 24 You say recently that as it crosses --25 before it hits that west spring ditch that the water

1 fans out, and it's not in a single channel, I guess --2 Α. No, it's not. -- headed to the north, it fans out? 3 0. But it's still then captured by this --4 5 Α. West springs. -- west springs ditch and pulled over into 6 Q. 7 the common ditch system, as you described, connects with the water coming from the south, which is called 8 east springs ditch, and all that flows together again 9 10 at this downstream location? 11 Α. Uh-huh. 12 Are you -- does -- we've looked at water 0. 13 rights earlier, much earlier today for Rosalie 14 Ericsson. 15 Uh-huh. Α. 16 0. Is that -- those water rights are taken out 17 upstream, though? 18 Α. Yeah. 19 They don't share a point of diversion --Q. 20 Α. No. 21 Q. -- down here with you? No, they're [unintelligible]. 22 Α. 23 Is there a water right -- are you familiar Q. with a water right that would allow diversion opposite 24 25 you into that --

```
1
           A.
                 No.
                 -- other side?
 2
           Q.
 3
           Α.
                 No.
           THE HEARING OFFICER: There's not a water right
 4
 5
    there.
                 Okay. Okay. Mr. Harris, that's the
6
7
    question I had.
8
                 But anything else?
9
           MR. HARRIS: I don't have any follow-up.
10
           THE HEARING OFFICER: Anything else?
11
           MR. BROMLEY:
                          Nothing.
12
           THE HEARING OFFICER: Okay. Thank you,
    Mr. Whittaker.
13
           MR. HARRIS: Hold on. I'm zooming in and out.
14
15
    That's to try to hypnotize you.
16
           THE HEARING OFFICER: Making us dizzy.
17
           MR. BROMLEY: You're doing a good job.
18
                 (Recess.)
19
           THE HEARING OFFICER: Okay. We're back on the
20
    record.
21
                 Mr. Harris, you can call your next witness.
           MR. HARRIS: We'll call Larry Borstelman.
22
23
    111
24
    111
25
    111
```

1	LARRY BORSTELMAN,
2	having been called as a witness by Protestants James
3	Whittaker and Whittaker Two Dot Ranch, was duly sworn
4	and testified as follows:
5	
6	THE HEARING OFFICER: Mr. Borstelman, do you
7	solemnly affirm that the testimony you're about to give
8	is the truth, the whole truth, and nothing but the
9	truth?
LO	THE WITNESS: Yes.
L1	THE HEARING OFFICER: Okay. Have a seat.
L2	
L3	DIRECT EXAMINATION
L4	BY MR. HARRIS:
L5	Q. Larry, could you please state your full
L6	name and address for the record.
L7	A. It's Larry Borstelman. Box 70 or
L8	376 Morgan Lane, Pocatello, Idaho.
L9	Q. And I'm going to start off by asking you,
20	how old are you?
21	A. I will be 77 May 2nd.
22	Q. And you've been here part of the day at
23	this hearing discussing areas around Stroud Creek.
24	Are you familiar with the Stroud Creek
25	area?

1	A. Yes, I am. I was raised in that area ever
2	since I was born. And I left there shortly after I
3	graduated from high school.
4	Q. And what year did you graduate from high
5	school?
6	A. In 1962.
7	Q. Okay. And who was your father?
8	A. Harry Borstelman.
9	Q. Okay. And are you related to the Whittaker
10	family?
11	A. My mother was a Whittaker.
12	Q. Okay. And so did you irrigate the Stroud
13	Creek in the Stroud Creek area that we've talked
14	about?
15	A. Yes. I worked I worked in that area,
16	and from time to time growing up, I did irrigate, yes.
17	Q. Okay. Have you been on the Whittaker
18	property that we've talked about today where these
19	springs are located and further down where Stroud
20	A. Yes.
21	Q and Lee Creeks are?
22	A. Yes.
23	Q. For what reasons were you on the property?
24	A. Well, as a kid you like to go and do things
25	and you roam around. And being raised out in the

1 country like we was, why I roamed around through 2 those -- through that area pretty much all my life growing up. 3 So we've a couple times talked about 4 Q. Okay. 5 a place where there's some -- some culverts down close to the Lee Creek channel and the Stroud Creek channel. 6 Are -- do you know the area that I'm 7 referring to? 8 9 Not -- that's one area that I couldn't Α. 10 recollect. But as far as down in that lower 11 0. Okay. 12 area of Lee Creek and Stroud Creek, there's been 13 testimony from Jordan Whittaker about what is down 14 there. 15 Did you hear that testimony here today? 16 Α. Yeah. 17 Q. Are you familiar with that area? Yes. And I'm sure I'm familiar with it. 18 Α. 19 Is there anything in his testimony Q. Okay. 20 that you would disagree with with how he described those channels and the -- the elevation change in 21 between those two? 22 23 The way that Jordan described the Α. 24 elevations down through there I pretty much agreed with 25 his testimony.

1	Q. Okay. And that's because you've you've
2	been on that property?
3	A. Yeah, because I I was raised there, and
4	I spent a lot of time there and listened to my father
5	because he irrigated the place for years and years and
6	years.
7	Q. When you say your father irrigated the
8	place, he irrigated the Whittaker property?
9	A. Yes.
LO	Q. Okay. And you helped him with that work?
L1	A. From time to time.
L2	MR. HARRIS: Okay. I have no further questions.
L3	THE HEARING OFFICER: Okay. Mr. Bromley?
L 4	
L5	CROSS-EXAMINATION
L6	BY MR. BROMLEY:
L7	Q. Hi, Mr. Borstelman.
L8	A. Hi.
L9	Q. Chris Bromley, representing the McConnells.
20	So Mr. Harris just asked you if you had heard Jordan's
21	testimony.
22	And you said you had?
23	A. Yeah.
24	Q. What was what was Jordan explaining in
25	that area down there below the culverts?

1 Well, he -- he was pretty much -- in the Α. way I recollect it and the way I comprehend it, is that 2 he was explaining how the lay of the land goes through 3 that area. 4 5 0. Okay. And I recall Jordan talking about 6 some elevation changes. 7 Do you remember that? Α. The -- the only thing that I can 8 Yes. maybe say about that that I'm -- I'm sure of is that I 9 10 know how Stroud Creek ran down through there for all the time that I was -- lived there and I was being 11 12 raised there. And it's pretty much the same as what 13 they described it to be. 14 0. Okay. So you were saying you agree with --15 with Jordan. 16 Α. Yeah. 17 Q. And what I'm wondering is, so he was talking about some elevation differences that was down 18 19 in that -- I think Merritt Udy called it the jungle mess down in there. 20 What kind of elevation changes do you 21 You know, was it like 10 feet in elevation 22 difference? a foot? Do you -- do you know? 23 24 Well, there's -- I'm -- I work in Α.

excavation so I dig a lot of basements, so I shoot

25

	grade a lot. So I understand what grade is. And I
2	understand you can't make water run uphill and it don't
3	make much it doesn't take much of a hill to prevent
4	water from running that direction. And if you could
5	make water run uphill, you'd be you'd have a
6	lucrative business.
7	Q. You could turn water into gold; right?
8	A. That's right.
9	Q. Yeah. So yeah, it doesn't take much grade,
10	then, for water to move one way or the other?
11	A. Yeah.
12	Q. You've do you recall being down in that
13	area?
14	A. Yeah. I mean I've been in that whole area.
15	Q. So when you've been down in that area, you
16	know, do you have to look up at some sort of elevation,
17	or is it all pretty much kind of in front of you?
18	A. Well, it's in some places the elevation
19	would you'd probably have to get an instrument out
20	to shoot the elevation to see what the difference is.
21	And I work with that all the time. And
22	sometimes you don't know. And unless you get the
23	instruments out and you shoot the elevation, oh, that's
24	2 feet higher than where we're at right now, you know.
25	Q. Right. So yeah, maybe in the neigh so

1	we're not talking about tens of
2	A. Yeah, we're not talking about gigantic
3	fields. In some of the places we are, but maybe some
4	places. But the way the way the channel come
5	through there when I was a kid, it's always been that
6	way as long as I can remember.
7	Q. Okay. And since you're talking about, you
8	know, water is finding the path of least resistance.
9	And then in high-flow events, in your
10	experience, have you seen water move rock around,
11	sediment around?
12	A. It's possible that it could, but it takes
13	a it usually takes more than the usual amount of
14	water to do that.
15	Q. And that area down there it's there's
16	looking at the photos, it seems like there's a lot of
17	vegetation.
18	Is that what you remember?
19	A. Yes.
20	Q. Okay.
21	A. Yeah.
22	Q. Have did you ever walk the the Stroud
23	Creek channel from the Whittaker place from where Cal's
24	diversion was for the 369 right all the way down?
25	A. Down toward the to the north, you mean?

1 Downstream into Lee Creek walking 0. Yeah. 2 the channel. I -- I've been through that whole area, 3 Α. 4 yeah. 5 0. Okay. So that was some -- was that sometime in the 19 -- you said you graduated from high 6 school in 1962? 7 Α. Yeah. 8 So that would have been sometime in the 9 0. 10 1950s? 11 Α. Yes, it would -- it would have been 12 probably from around 1950 to '62. 13 Q. Okay. So --We moved there in 1948. And I think I was 14 15 4 years old when we moved there. This -- this is Exhibit 154. 16 Okay. Q. 17 THE HEARING OFFICER: It's open right in front 18 of you. 19 (BY MR. BROMLEY): Yeah, there you go. Q. 20 It's a colorful map. 21 THE HEARING OFFICER: That map. (BY MR. BROMLEY): Yeah. 22 0. 23 THE HEARING OFFICER: Yep. 24 Q. (BY MR. BROMLEY): So you were then -- you 25 know, you graduated high school in 1962. So then you

1 were alive with good recollection when this map was made in 1954, is my understanding. 2 So 1954, how old were you? 3 Α. In '54 I would have been 10. 4 5 0. Okay. And so you had good recollections from the time you were 10, would be my guess? 6 7 Α. Yeah, I can remember a lot of things. there's some things, you know, that I'm sure we all 8 9 can't remember. So this map shows this Left Fork of 10 Q. Yeah. 11 Lee Creek that sort of goes through section 31 on 12 almost a 45-degree angle. 13 Do you see that in the bottom left-hand And then it makes a bit of a jog in that upper 14 15 corner of section 31, and then it follows its way down into section 30. And that's all listed as Left Fork of 16 17 Lee Creek. Do you see that on the map? 18 Α. Yes. 19 Do you -- is that your recollection, that Q. 20 the Lee Creek went -- and it's also called Stroud 21 Creek --Well --22 Α. 23 -- that it went through the Whittaker place Q. and then on down? 24 Yes, I -- that's one thing I've been a 25 Α.

1	little confused about all day is I knew that as Stroud
2	Creek. I never knew it as Lee Creek.
3	Q. All right. And so on the map it's Left
4	Fork of Lee Creek.
5	A. Yeah.
6	Q. But you knew it as Stroud Creek?
7	A. I knew it as Stroud Creek.
8	Q. Okay. And so you would have followed,
9	then, that on down?
10	A. Yeah.
11	MR. BROMLEY: Okay. I don't have anything
12	further. Thank you.
13	THE HEARING OFFICER: Okay.
14	Mr. Manwaring, go ahead.
15	MR. MANWARING: Thank you.
16	
17	CROSS-EXAMINATION
18	BY MR. MANWARING:
19	Q. Larry, back in the day were there any
20	headgates on Lee Creek or Stroud Creek that you
21	remember seeing?
22	A. I'm trying to remember. There was there
23	was probably a couple where water water would be
24	diverted different directions for irrigation purposes.
25	Q. And do you recall today if those were on

1 Lee Creek or Stroud Creek? 2 Α. Well, I knew it as Stroud Creek. 3 0. And there were some headgates on Stroud 4 Creek? 5 Α. Yeah. Q. Do you recall any on Lee Creek? 6 Α. 7 I was not -- I -- like I mentioned earlier, I was not familiar with that as being Lee Creek when I 8 grew up, because it was always called Stroud Creek. 9 10 And so I only knew it as Stroud Creek. 11 0. Oh, okay. So when you're looking at 12 Exhibit 154 that you have in front of you, where --13 that portion that is in the square marked "30" in a 14 circle, do you see that "30" that's been circled in the 15 upper left-hand area? 16 Α. Okay. 17 Q. Right below that "30" is some little 18 streams that have been designated. And one says "Right 19 Fork of Lee Creek" -- they both say "Right Fork of Lee 20 Creek, " then it goes down to "Right Fork of Lee Creek." 21 So we got two Right Forks of Lee Creek, or three. 22 Α. Okay. 23 Q. Is that Stroud Creek to you, or is that Lee 24 Creek?

That's Lee Creek.

A.

25

1	Q. That's Lee Creek?
2	A. Yeah.
3	Q. And did you see any headgates on Lee Creek,
4	on that part of Lee Creek?
5	A. On that part of Lee Creek?
6	THE HEARING OFFICER: Uh-huh.
7	THE WITNESS: No.
8	Q. (BY MR. MANWARING): Okay. And the part
9	that's the Left Fork of Lee Creek that's shown on that
LO	same Exhibit 154, do you see that coming up there? Is
L1	that Left Fork, is that what you knew as Stroud Creek?
L2	A. Yes.
L3	Q. Okay. And is it on Stroud Creek that you
L 4	saw some headgates?
L5	A. Well, there there was I know there
L6	was a headgate where my dad could divert irrigation
L7	water, but I'm not sure just where it went
L8	Q. Okay.
L9	A at the time.
20	Q. Was that on what Whittakers' property?
21	A. Yeah.
22	Q. Okay. And were there some collection
23	ditches that you see showing on this Exhibit 154, if
24	you look? I'd have to point it out probably.
25	Could I go and point that out?

1 THE HEARING OFFICER: Oh, yeah. Uh-huh. Yeah, 2 that's fine. MR. MANWARING: Feels good to stand and walk. 3 Larry, what I'm looking at is on 4 Q. Exhibit 154, right below this section line between 5 section 30 and section 31, there's a red section line 6 7 there. Okay? 8 9 Α. Okay. And to the -- in the upper right-hand 10 Q. 11 corner, you see a little ditch right there --12 Α. Uh-huh. 13 Q. -- with some springs. 14 Do you see that? 15 Yeah. Α. And do you recall seeing that ditch when 16 Q. 17 you were a youngster? Yes, I do. 18 Α. 19 So that's been there awhile? Q. 20 Α. Yes, it has. And where was your dad's headgate on this 21 Q. Stroud Creek? Do you remember, roughly? 22 23 From this illustration, it's pretty hard Α. for me to say where that would have been. 24 25 Q. Okay.

1 It would have to be more -- more detail. Α. 2 Q. There would have to be more detail than what you can see? 3 Α. Yeah. 4 So this Left Fork of Lee Creek that I'm 5 0. pointing to that courses from section 30 upstream down 6 7 through 31, kind of runs at a 45 through 31, is that 8 what you knew as Stroud Creek? Well, what I knew as Stroud Creek is it 9 Α. 10 didn't go here. It went here in this --11 THE HEARING OFFICER: That's going to be pretty 12 important, Mr. Borstelman. When you're saying "from 13 here to here," what do you -- what do you mean? Give 14 us some references on the map. 15 THE WITNESS: Well, let me see if I can find one that I'm familiar with. 16 17 Yeah. Is -- is this an irrigation ditch 18 here? 19 (BY MR. MANWARING): You know, I have no Q. 20 clue. What he's pointing at is a little channel, 21 it looks like, that's right there with the No. 11 and 22 south by No. 28. It does say "ditch" on it. 23 24 Is this Floyd Whittaker --Α. Floyd Whittaker Ditch? 25 Q.

1 Yeah, Floyd Whittaker Ditch. Α. 2 MR. MANWARING: So he's pointing to this portion right here. 3 THE HEARING OFFICER: Okay. All right. 4 That's that common ditch after all of this -- the west and the 5 east springs ditch come together, there's a common 6 ditch that winds out through section 29. 7 Q. (BY MR. MANWARING): That's what you recall 8 9 as the Stroud Creek? Yeah, uh-huh. Well, yeah, that's where --10 11 that's where the water that came out of Stroud ran. 12 Okay. Okay. 0. 13 Α. From my recollection. 14 0. Do you remember having any high water years 15 when you were young, watching the runoff come heavily down through those two creeks, Stroud Creek and Lee 16 17 Creek? Do you remember seeing any heavy water running through there? 18 19 Well, as a kid you don't pay a lot of Α. attention to some of -- some of that sort of thing. 20 And I'll admit that I didn't pay attention to a lot of 21 the details about that, because as a kid it doesn't 22 affect you personally, so you just don't pay a lot of 23 24 attention to it. 25 Q. You're just having fun. I can appreciate

1	that. My wife thinks I still am.
2	THE HEARING OFFICER: Sometimes.
3	MR. MANWARING: I don't think I have any further
4	questions.
5	THE HEARING OFFICER: Okay.
6	
7	EXAMINATION
8	BY THE HEARING OFFICER:
9	Q. Mr. Borstelman, as you look at this map, is
10	there anything that jumps out to you about this map
11	that is inconsistent with your recollections?
12	A. The one the one part that's that is
13	inconsistent with my recollection is is the fact that
14	the Left Fork of Lee Creek I knew it as Stroud Creek.
15	Q. So a naming issue
16	A. Yeah.
17	Q that you would call it Stroud Creek?
18	A. The main issue is is that I wasn't familiar
19	with that.
20	Q. Okay. Anything else?
21	A. And then then where it shows that Lee
22	Creek runs up in section 30, see, I was not familiar
23	with with it ever running in that there.
24	Q. Can you can you direct me to where you
25	think there's an issue in that section 30?

Well, it's -- it's probably -- the way I 1 Α. recollect it is that it's come down through there, and 2 it always went -- this is a hill; right? I'm kind of 3 4 confused about -- but as far as I recollect, it always went this other direction. 5 So let the record reflect that 0. 6 7 Mr. Borstelman is saying that his recollection is that Stroud Creek continued down what is highlighted kind of 8 in brown and identified as the Floyd J. Whittaker Ditch 9 10 that terminates in section 29 just below the words "divide ridge." So that's -- that is what he says is 11 12 his recollection, that's where Stroud Creek went. 13 Okay. Anything else that you see that -besides -- besides those two things that are 14 inconsistent with your memories? 15 16 Well, the one thing that I -- stands out 17 with me is that that water was always used for irrigation purposes, because my dad irrigated. 18 19 THE HEARING OFFICER: Okay. Okay. Very good. 20 Mr. Harris, anything more? MR. HARRIS: 21 No. THE HEARING OFFICER: Thank you for your time. 22 23 THE WITNESS: Yeah. 24 THE HEARING OFFICER: Okay. Okay. Call James Whittaker. 25 MR. HARRIS:

1	THE HEARING OFFICER: Great. The faster you
2	talk, the sooner we get to eat dinner.
3	
4	JAMES WHITTAKER,
5	having been called as a witness by Protestants James
6	Whittaker and Whittaker Two Dot Ranch, was duly sworn
7	and testified as follows:
8	
9	THE HEARING OFFICER: So, Mr. Whittaker, do you
LO	solemnly affirm that the testimony you're about to give
L1	is the truth, the whole truth, and nothing but the
L2	truth?
L3	THE WITNESS: I do.
L 4	THE HEARING OFFICER: Okay. Have a seat.
L5	
L6	DIRECT EXAMINATION
L7	BY MR. HARRIS:
L8	Q. James, could you please state your name and
L9	address for the record.
20	A. James Whittaker, P.O. Box 240, Leadore,
21	83464.
22	Q. And I ask everybody this, so I'm going to
23	ask you: How old are you?
24	A. 75, almost 76.
25	Q. Okay. So what year were you born?

1 **'45.** Α. And was your father Floyd Whittaker 2 Q. Okay. that was involved in the --3 Α. Yes. 4 5 0. Well, let me -- sorry ---- in the Whittaker versus Kauer 6 7 litigation? 8 Α. Yes. 9 And are you generally familiar with 0. 10 the Stroud Creek property that we've been talking about all day today? 11 12 Α. Yes. Explain to us how you're familiar with it. 13 Q. I've spent my lifetime there. And for the 14 Α. 15 last 45 years, why I've ran the place and the ranch and everything until 2019 when I'm in the process of 16 17 turning the ranch over to my two boys. So I moved the cattle, of course all the 18 19 Why you got to be on top and know and show water. different ones how to irrigate and where to irrigate 20 and how much water they got coming and... 21 How many acres of land do you own in Lemhi 22 0. County? Do you have an estimate? 23 24 Well, 18,000-plus. Α. So you have a lot of water rights? 25 Q. Okay.

1 Α. A lot of water rights. In a lot of different drainages? 2 Q. A lot of different drainages. 3 Α. Okay. And with this property in 4 Q. 5 particular -- and I recognize I'm taking some liberties here, so if there's any concerns with going too fast, 6 7 please let me know. But you heard Jordan's testimony earlier 8 9 today describing the irrigation system on the property; 10 correct? 11 Α. Correct. 12 Is there anything that you want to correct 0. about what he described as far as the current system 13 14 that's on the property today? 15 Probably not. I don't know that -- it's Α. 16 close enough. Close enough. 17 Q. There's a map in front of you. And you -- you actually have the original 18 19 of that map, correct, the engineer's map? 20 Α. That's correct. 21 Q. Okay. MR. MANWARING: Which one are we talking with? 22 23 I'm sorry. 24 MR. HARRIS: 154. 25 MR. MANWARING: 154. Okay.

1 (BY MR. HARRIS): And do you know why that 0. 2 map was created? Α. My father had made one. He had a lawsuit 3 4 with the Kauers, who at that time owned the McConnell 5 property. And they were -- had had the watermaster break the dam that was -- earthen dam that was there 6 and turn that water down the creek to them. 7 And of course, my father had to challenge 8 And they had that lawsuit. And in that lawsuit my 9 it. 10 father prevailed and -- and just like the record shows in there, why back in 1932 they had an oral agreement 11 12 and worked on that. And that was pre-Kauer days. 13 it worked. And there was either an earthen dam or a 14 15 flume underneath clear from -- clear back to prior to 16 1912, that that water has gone to the Whittaker 17 property. And the Whittakers have now owned that. This will be the 96th year that the Whittakers have 18 19 owned that property. And that -- during my lifetime all that 20 water has been diverted out of that east and west 21 spring both to the Whittaker property. And it was 22 beyond my wildest dream that anybody could ever make an 23 24 attack on that.

25

And if that spring is taken from us, that

1 is a definite injury, and it's -- it's an injury of the magnitude that basically it just makes that property 2 nonprofitable. We've put new pivots on it. We farmed 3 My father broke a lot of that out of the sagebrush 4 5 and things. Uh-huh. Q. 6 Α. 7 And he dug the east spring back in the late -- late '20s. 8 9 Let -- let me interrupt you. And let's Q. 10 talk about that. 11 Α. Okay. 12 0. This map depicts -- generally it depicts some ditches and other features on the property. 13 14 Do you think it does a fairly accurate job, 15 generally speaking, of depicting where those features 16 are? Or is there anything in this map that you would 17 say is not quite accurate? Well, I'd just reiterate what Larry said 18 Α. 19 there, is that we never knew that as Lee Creek going 20 through there. 21 Q. It was Stroud Creek to you? Okay. 22 Yeah, it was Stroud Creek. Α. 23 Okay. And did -- as far as the west Q. 24 springs, the ditch that collects it, my understanding

is there's a -- there's a berm that goes across there

25

1 to then run that into the ditch. 2 Was that there when you were a kid on the 3 property? It's -- it's been there my whole lifetime. 4 Α. 5 And I remember specifically that after I got out of high school and I made a little money and I bought a 6 backhoe, and that's when backhoes weren't real popular. 7 That spring was just plumb full of softest 8 9 silt and everything. And Larry's dad -- I said, "Well, 10 I'll clean it." 11 "Oh, you can't do that." 12 But I took that backhoe up there, and I 13 remember when I got in there, why I just had to jump it 14 through there. And every time I'd let it down, it 15 would throw water out the sides there. Clean that out, 16 and that's why it's got that huge bank off to the lower 17 side there is because I put all that out and grew grass and stuff now, it's been out there. But I've done that 18 19 at least twice in my lifetime. 20 0. Okay. And you're familiar with -eventually that water collects, and I just refer to it 21 as kind of a hilltop split where you can send water 22 down to the pivot. 23 24 Are you familiar with that? A. 25 Yes.

1 And historically did water just --0. Okay. 2 did that ditch carry water out for flood irrigation where the pivot now is? 3 Α. It did. It's a -- all the time that 4 5 Larry's dad was on there, we went out there for flood irrigation. And he -- Larry's dad was a man that 6 tended water when it needed tended. And it's hard to 7 8 believe, but he irrigated almost as much as --9 flood-irrigating as we're doing now with a pivot. 10 There's been a lot of discussion Q. Okay. 11 today about down where Lee Creek and Stroud Creek are 12 pretty close together. And we've referred to a couple culverts down a little bit further down. 13 14 Do you recall the area that I'm talking 15 about? 16 Yeah. Α. 17 Q. Okay. So I'm going to ask you a question, how are you familiar with that area? 18 19 Well, I'll tell you how I'm familiar with Α. 20 And that's why Larry -- right after -- it wasn't long after I got out of high school that my dad bought 21 another grazing permit to the west of us there that --22 and we call it the dry farm area. And we'd been -- we 23 24 had a band of sheep, but now we had cattle too.

25

But historically they had to move those

1 sheep clear around through my Uncle Cal's property and But there was -- at that time at the bottom of 2 down. that property there, that was just like the rest of it 3 going down the creek, all that brush and everything, 4 5 you couldn't get through there. And I -- I went and I talked to my father 6 7 about that. And I says, "You know, Dad, if we could -if I could get a Cat and clean that out of there and 8 put a couple bridges in, why we could have those sheep 9 10 home in a couple hours instead of a day going clear around that deal." 11 12 And so initially he -- typical dad, he 13 said, "No, you -- that's not a good idea." fortunately next spring he said, "When are you getting 14 15 that Cat to push that out?" 16 So I got the Cat and pushed it out. 17 the bridge in there, what was the bridge, it's a culvert now because the bridge rotted out, and this had 18 19 to be in late '60s, just not long after Larry moved out 20 of there, basically. 21 And we put them in. And we could bring cattle clear from our Barrow's [phonetic] ranch and put 22 them on the dry farm in one day instead of two days. 23 24 Good story. UNIDENTIFIED SPEAKER: 25 THE WITNESS: I reckon there are -- there's just

1 And Stroud Creek stream, on both two streams there. sides of it a little, it was kind of springs and seeps. 2 And so I dug back a little bit with the backhoe each 3 way to kind of collect that so we could dry that up, 4 so -- especially the sheep don't like to walk in water 5 across there. And so --6 7 (BY MR. HARRIS): So before I get lost real 0. quick, so where there's two culverts on that property, 8 9 there used to be bridges? Two -- they're culverts now. One is in Lee 10 Α. 11 Creek and one's in Stroud Creek. 12 Okay. Did you install those culverts? 0. 13 Α. I did. 14 0. Do you know what year you installed those 15 culverts? It would have -- I can't tell you the exact 16 Α. 17 year, but it would have been somewhere between '65 and 18 **'70.** 19 Okay. And prior to that they were bridges? Q. Well --20 Α. Or there was [unintelligible] --21 Q. -- prior to that there wasn't anything 22 until I had the brush pushed out of there and put them 23 24 in. I did that. Bridges -- bridges first. 25 THE HEARING OFFICER:

```
1
    When did -- you replaced the bridges with culverts.
 2
                When did that happen?
           THE WITNESS: Well, the one culvert's been in
 3
 4
    their all the time, Lee Creek.
 5
           THE HEARING OFFICER:
                                  I see.
           THE WITNESS:
                          It's never changed.
 6
 7
           THE HEARING OFFICER:
                          But I put a bridge in the other
 8
           THE WITNESS:
    because at that time it was soft and it just seemed to
9
    fit better. Well -- and I couldn't get equipment there
10
11
    that we had in those days to put enough gravel in
12
    there, because that's why I had that little backhoe and
13
    I dug those deals. And it did kind of dry up.
14
    initially I put a bridge in there.
15
                But I can't tell you, but it's probably
16
    been at least 15 years ago when I --
17
           UNIDENTIFIED SPEAKER: It's been a lot longer
    than that.
18
19
           THE WITNESS:
                          Yeah.
20
           UNIDENTIFIED SPEAKER:
                                   [Unintelligible.]
21
           THE WITNESS:
                          Yeah.
           UNIDENTIFIED SPEAKER: You're probably talking
22
23
    more --
24
                          Yeah, in fact, it's probably 30
           THE WITNESS:
    years ago, because I just looked at it the other day
25
```

1 and it's -- it's all rusted out and needs replaced and 2 worked on again going through there. THE HEARING OFFICER: And there are -- there are 3 4 three culverts there now? No, there aren't. 5 THE WITNESS: There's only There's always been just two. There aren't 6 7 There's just two culverts. One's in Stroud and one's in Lee Creek. 8 9 THE HEARING OFFICER: Okay. (BY MR. HARRIS): Okay. And so Jordan's 10 Q. testimony was that -- that -- well, that area's been 11 12 referred to a little bit like a jungle. 13 And you would agree with that? 14 Α. Oh, no doubt. 15 Okay. But to the best of your Q. 16 recollection, have there been two channels paralleling 17 each other? And does Stroud Creek come in below McConnells' diversion? 18 19 Undoubtedly. And the reason I'm sure of Α. that is because, like I said, we have that range right 20 21 on the hill right next to that. And every year, why we put our bulls out, and invariably they get into what's 22 23 now Johnson's property, one or two of them. And as 24 they've said, that is full of brush in there.

a bear to get out of there.

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

And so they're every year, and it's not really something I can send most men to do and get accomplished. I had to go do it myself with my dogs and crawl through there and get them out of there. So if this transfer's approved, are you concerned that administratively McConnell would be able to call for water out of Stroud Creek when he hasn't been able to up to this point? Α. As far as we're concerned, that's Yeah. devastation, because we've depended on that for, like I say, 95, 96 years. 0. Now, I'm -- I'm sure Mr. Bromley will ask you some questions about your Water Right 74-157 and why this agreement wasn't claimed in the adjudication, so I'll just ask you that question. Do you -- can you tell us why it wasn't included? Did you think it didn't have to be? What was the reasoning? Well, I don't know. In my mind I guess Α. it -- it's been kind of -- and I think Chris alluded to that before is that -- well, in the 1982 adjudication it was in there the way it was supposed to be. listed as separate. And according to what Bryce has said there,

when they went in to research those out, they were

1 supposed to reflect the way they were -- it -- in the '90 -- 1987 report. And if that would have been done, 2 we wouldn't be in here today. 3 Q. Okay. You don't think that reflected at 4 least the historic administration at the time? 5 It didn't reflect what was in the 1982 6 7 adjudication. Okay. And didn't reflect what the 8 Q. 9 agreement was that the Supreme Court --10 It didn't reflect the agreement either. Α. 11 MR. HARRIS: Okay. I have no further questions. 12 THE HEARING OFFICER: Okay. 13 MR. HARRIS: Thank you. THE HEARING OFFICER: Go ahead, Mr. Bromley. 14 15 MR. BROMLEY: Sure. 16 17 CROSS-EXAMINATION 18 BY MR. BROMLEY: 19 So hi, James. Chris Bromley on behalf of Q. the McConnells. 20 This -- the 1982 or ish, like that time 21 frame adjudication that you're talking about, was that 22 23 the Lemhi adjudication? 24 Α. It was. 25 Q. Just trying to make sure.

1 And I'm referencing the Green Book. Α. 2 you'll look in the Green Book, it's not listed as It's listed in springs separate. 3 tributary. Okay. So do you have a copy of that Green 4 Q. 5 Book that we can --UNIDENTIFIED SPEAKER: I have a copy -- I have a 6 7 copy on my phone. MR. HARRIS: Well, you can't testify right now. 8 9 Sorry. (BY MR. BROMLEY): And we have a witness 10 Q. 11 and exhibit list. And I'm just wondering where in the 12 exhibits that you said you would use at hearing, which exhibit -- you know, where does it say that? 13 MR. HARRIS: Well, hold on. 14 I'm going to 15 object. Yeah, we didn't include it as an exhibit because we didn't think it was an issue. 16 But he's 17 testifying from his memory, which I think he can do. 18 MR. BROMLEY: Okay. So --19 He's saying his recollection of MR. HARRIS: 20 what's in the Green Book is it was in a separate 21 section. (BY MR. BROMLEY): Mr. Cefalo, so all I'm 22 trying to find out is, do you have a document in front 23 24 of you that says that or are you testifying from your recollection? 25

```
1
                 Right now I'm testifying from my
           Α.
    recollection. But I have that Green -- well, just a
 2
             I -- I think I do have it. I do have it.
 3
                 Bring that up, Jordan.
 4
 5
           MR. BROMLEY: Mr. Hearing Officer, my question
    was simply, I'm trying to understand what he was
 6
 7
    testifying from.
                 But please, Jordan, don't come up directed
8
               Let's wait to try and figure this out.
9
    by James.
10
                 In my opinion, it's a side issue.
                                                     I was
11
    just trying to find out, did he have a document in
12
    front of him, or is he testifying based on
13
    recollection?
           THE HEARING OFFICER:
14
                                  That's fine.
                                                 And you --
15
    and you answered that question.
           MR. BROMLEY:
16
                          Yeah.
17
           THE HEARING OFFICER: It's based on
    recollection.
18
19
           MR. HARRIS:
                         Correct.
20
           THE HEARING OFFICER:
                                  There isn't an exhibit, I
21
    don't think, that is that.
                          I do have it right there.
22
           THE WITNESS:
23
           THE HEARING OFFICER:
                                  Great.
24
           Q.
                 (BY MR. BROMLEY):
                                    So --
           THE HEARING OFFICER: You can continue.
25
```

1 And I brought it. THE WITNESS: 2 MR. BROMLEY: That's all I'm trying to find 3 out --THE HEARING OFFICER: You can continue. 4 5 MR. BROMLEY: -- is what was going on. Again, I --6 7 James, you understand, though, that the 0. 74-157 as it was decreed in the SRBA says "springs 8 9 tributary to Lee Creek"? 10 I understand that. Α. 11 Q. Yeah. 12 Α. But --13 Q. Go ahead. On that same token, I see we're even 14 Α. 15 claiming wells as tributaries, something now published in the paper. And it seems to me like ever since this 16 17 last adjudication everything has to have a tributary on it. And my son-in-law just filed a -- for a well the 18 19 other day, and in my mind I'm sure that I was asked by 20 the Department to put tributary on there, you know, because I knew it was different. But they said it's 21 got to be tributary to something. 22 23 And I'm sure that whoever I met with said, "Hey, you need to put 'tributary' on there." And 24 that's been one of the biggest mistakes of my life. 25

1 So thank you for that. Q. Okay. This Exhibit 154, the colorful map, you 2 said that this was made during the Kauer dispute by --3 4 was it by your father who had the map commissioned? 5 It was. He had an engineer do it. Okay. And -- and other than the -- just Q. 6 7 like Mr. Borstelman saying, other than this Left Fork 8 of Lee Creek, it really should be Stroud Creek. 9 Again, what else is incorrect about this 10 map? I don't know. But I'd like to point out 11 Α. 12 that both of those springs are called the Floyd J. Whittaker Ditch. And ever since that 1916 -- or 2016 13 14 when Cindy had us turn that water down, why when you 15 have all that water come down and -- that hasn't been 16 through there for 95 years or during my life, why you 17 can imagine what a problem that causes. And at that time I was still running the 18 19 ranch and was trying to get up there and try and keep 20 it rational so we was sending Bruce's down but yet was protecting my spring. We didn't have weirs in. 21 didn't have anything to measure with. And we knew what 22 we was entitled to, but it was virtually guesswork. 23 24 And so... And on this map, James, that I see running 25 Q.

1 basically from the bottom left-hand corner through section 31 and then it jogs into section 29 is this 2 "divide ridge" and it's in red. 3 Do you see that? 4 5 Α. Let's see. I'm sorry, Chris. again. 6 7 In the bottom left-hand corner do 0. Sure. you see "divide ridge" written in in red? 8 Bottom 9 left-hand corner. 10 Α. Oh, yeah. Okay. Okay. 11 0. And it -- and it then sort of runs a path, 12 and it ends up in section 29, says "divide ridge" in "section 29." 13 So that -- what I understood from listening 14 15 to Jordan was -- I mean he was talking about it almost as a Continental Divide, that it was a divide with --16 17 if water stays on the right-hand side of the divide, it flows off to the right; if water is on the left-hand 18 19 side of the divide, it would flow into the Lee Creek 20 drainage. Is that your understanding of what this 21 divide ridge is about? 22 23 Α. Yes. 24 0. So then water that ends up in the Floyd J. Whittaker Ditch, if we could trace that down, 25

And this

1 it ends up on the right-hand side of the "divide ridge"; is that correct? 2 Let's see. What ends up on the right-hand 3 Α. 4 side? This -- the Floyd J. Whittaker Ditch. 5 0. Ιf you follow the Floyd J. Whittaker Ditch, it originally 6 starts on the left-hand side of the divide and then 7 it -- according to the map --8 9 Yeah, it crosses it. Α. Yeah. 10 Uh-huh. Q. Okay. 11 Α. Yeah, sure. 12 And then it ends up on the right-hand side 0. of the divide. 13 So water that's diverted on the Lee Creek 14 15 side of the divide can then make its way to the opposite side of the divide? 16 17 Α. No, that --18 0. Yeah. 19 Just like Larry pointed out there -- and A. it's amazing, Larry's dad used the old-time level and a 20 stick 16 feet long, and he surveyed a lot of those 21 22 ditches and stuff. And it was unbelievable the job he 23 did. 24 Well, yeah, it is. And if we look at Q.

Exhibit 155, which is the next page, James.

25

```
1
    is small, but --
 2
           Α.
                 Did you say 1- --
            THE HEARING OFFICER: Uh-huh.
                                            155.
 3
                 (BY MR. BROMLEY): Yeah, 155.
                                                 Just the
 4
            Q.
 5
    next -- the next page.
 6
           Α.
                 Oh, okay.
 7
                 There's a lot of detail that went into, it
            0.
8
    looks like, and it's hard to read it. But legal
9
    descriptions and description of the -- in that second
10
    box, Floyd J. Whittaker, John Whittaker ranches,
    detailing the acreage. I mean there's a lot of detail
11
12
    that went into this map.
13
                 Do you agree with that?
14
           Α.
                 Yeah.
15
                 Yeah.
            Q.
16
            Α.
                 No.
                      I've looked that over pretty
17
    thoroughly, and it's accurate today.
18
            Q.
                 It's accurate today?
19
           Α.
                 It is.
20
            0.
                 And then I see there are profiles that are
    listed.
21
22
                 Do you see -- so there's a box that says
23
    "details." There's a box that says "Floyd J.
    Whittaker." There's a list of --
24
                 I see "profile."
25
           Α.
```

1 Yeah, "profile." Q. 2 Are those -- are those elevations? Again, it's difficult to see. 3 Well, it apparently is. It says, "Fall of 4 Α. 7.1 to" I think "800 feet" there. Something like that. 5 Yeah. And then do you see an engineer's 6 7 certificate in the bottom right-hand corner? This gets real small. 8 9 Yeah, I see it. Α. Yeah. Okay. And we can read that. And it says, 10 Q. 11 "The above plat was made by me from a survey -- made by me on October 1 and 2, 1954, and from a tracing I made 12 13 of the aerial photograph in the county assessor's office at Salmon, Idaho. The aerial photograph was 14 15 dated August 1946. The acreages of 28 tracts were" --16 what is that? Platted? No. Something "from a base 17 map from which this tracing was made. The above plat" -- that word I can't --18 19 "Tabulations." Α. 20 0. -- "tabulations" -- thank you -- "and 21 profiles are true and correct to the best of my knowledge and belief." 22 23 And then it's signed by a registered engineer; is that right? 24 25 Α. That's right.

1	Q. Thanks, James.
2	A. Emelda Christensen [phonetic].
3	Q. Yeah. Thank you.
4	So then looking back at Exhibit 154, which
5	was was truth and verified by a professional or
6	I'm sorry, a registered engineer, it in 1954
7	Mr. Christensen, the registered engineer, is putting
8	the confluence of Left Fork Lee Creek, which you call
9	Stroud Creek, which and Right Fork Lee Creek almost
LO	in the middle of section 30; is that right? On the
L1	east side, but the, you know
L2	A. Where are we looking?
L3	Q. That's the confluence of the Stroud and
L 4	Right Fork Lee Creek?
L5	A. Yeah, I see it.
L6	Q. Yeah, okay. The you were talking about
L7	the culverts.
L8	Do you remember that?
L9	A. I do.
20	Q. And so before the do you remember what
21	was there before the culverts?
22	A. Well, is all it was was brush, and it was
23	in two separate channels. Just I didn't move the
24	channels or anything when I did that through there, but
25	you you couldn't walk through there before we got

1 the Cat and cleaned that all out. 2 Q. Okay. So when did you drive in there with the Cat to clean it out? 3 Α. Some -- between '65 and '70. 4 5 0. Okay. So that would have been after this 6 map was -- was created? 7 Right. Α. All right. So before the map was -- you 8 Q. don't have any -- and, you know, your testimony, as I 9 10 understood -- please correct me if I'm wrong -- is that, you know, other than the Stroud Creek -- what 11 should be named Stroud Creek --12 13 Α. Right. 14 0. -- the map looks accurate? 15 Yeah. Α. And it was -- and it was certified. 16 Q. Yeah. 17 So then in the late '60s/early '70s, that -- is that when you put the -- I think you might 18 19 have said, was it one culvert originally? 20 Α. No. Two. 21 Q. Okay. Two. Well, one was a culvert and one was a 22 Α. 23 bridge. 24 Okay. One was a -- okay. One was a Q. culvert? 25

1	A. But there was two channels	
2	Q. Okay.	
3	A is the main thing.	
4	Q. Okay. Great. Okay. Two channels.	
5	The culvert went in which source?	
6	A. In Lee Creek source.	
7	Q. Okay.	
8	A. And the bridge was over the Stroud.	
9	Q. Okay. So the culvert went into Right Fork	
10	of Lee Creek and the bridge went over Left Fork of	
11	I'm just using the words on the map, the bridge went	
12	over Left Fork of Lee Creek, which you call Stroud	
13	Creek?	
14	A. Right.	
15	Q. And I don't think there's nobody in here	:
16	who's disputing that it's not Stroud Creek. So I'm	
17	just trying to understand what happened.	
18	At some point, then, you took the bridge	
19	out?	
20	A. And put a culvert in.	
21	Q. Okay. And put another culvert in.	
22	So now there are two culverts?	
23	A. Now there are two culverts.	
24	Q. Do you recall how you sized the culverts?	
25	Did you just	

1	A. No, I think the one in the one in Lee
2	Creek is a little bigger. If I remember right, it's,
3	I'm going to say, a 3-foot arch. And the one in Stroud
4	Creek is smaller. It's probably an 18 or something
5	like that, because basically all of Stroud was headed
6	off before coming down there, [unintelligible]
7	Q. Are they half circles or are they full
8	circles?
9	A. The the I said the one was an arch in
10	Lee Creek. And it it's an oval shape one. And the
11	other one's a round one.
12	Q. Okay. I'm just trying to understand.
13	So when you when you put the culverts
14	in, then, the confluence of Stroud Creek and the Right
15	Fork of Lee Creek was where it's mapped in Exhibit 154?
16	A. Well, as near as I can tell, it probably
17	was, but
18	MR. HARRIS: I'm going to object.
19	Hold on.
20	I'm going to object. I I'm not sure he
21	understands the question.
22	Are you talking in relation to the
23	McConnell points of diversion?
24	MR. BROMLEY: I'm talking on just on the map,
25	Rob.

1 Well, just a minute here. THE WITNESS: I think that's what's confusing. 2 MR. HARRIS: THE WITNESS: I've got to give this a little 3 4 more -- I got to -- I'm not quite sure where I'm 5 located here. Well, it's the bottom of our property. Well, it's got them -- the confluence there, and that's 6 7 not right. This map's not right there. (BY MR. BROMLEY): Okay. So, James, your 8 Q. 9 prior testimony was that the map was right --10 Yeah, but --Α. 11 0. -- other than the -- other than the 12 statement of --13 Α. Well, I was thinking initially we was below 14 our property. But that's -- that's above our property, 15 and that's not right. 16 0. Okay. And this --17 Α. The confluence is down on either the BLM or 18 Johnson's property. I'm not sure whose it is. 19 Okay. But you also testified, James, that Q. 20 this map was commissioned by your dad during the --It was made by -- by Dad. 21 Α. It was. -- during the lawsuit of Whittaker versus 22 0. 23 Kauer? 24 Α. Right. And then we've looked at -- we've talked 25 Q.

1 about all of the detail that went into this map. we've looked at Exhibit 155 that explained a lot of the 2 detail, including profiles and acreage. And then we 3 read the engineer's certificate signed by 4 5 Mr. Christensen saying that that was true and correct to the best of his knowledge. 6 And then was this map used in the 7 8 litigation of Whittaker versus Kauer? 9 Α. You're right. But we've been talking 10 basically about maps all day. And what's on the map and what's physically on the ground in a lot of cases 11 12 have been two enormously different things, especially -- well, that's that line. So anyway, but 13 14 that's not correct. That part of this map's not 15 correct. 16 And that -- for the importance of why this 17 map was made, it covered this section of the springs. That's why it was made. And I -- they probably weren't 18 19 too careful about what happened at that point in time. But I can tell you that that -- I -- I don't think that 20 21 ever was accurate, that they had confluence clear up 22 there. 23 But there was an engineer certificate on it Q. explaining that it was true and correct. You'd agreed 24 with me when we read through the certificate about the 25

1 detail that went into this map. It was a tracing of 2 what the engineer saw. It was commissioned by your family for litigation against the Kauers. 3 And now you've -- you're changing what you 4 5 said, and saying that the map is now not accurate? Well, I guess that I was looking more at 6 Α. 7 the rest of the map as in regard to Whittaker. since you pointed that out, that -- that's not 8 It -- it wasn't in the 1960s, it's not now, 9 accurate. 10 and to my knowledge, it never was. 11 0. Okay. It's still your testimony that you 12 put a culvert and a bridge into the Right Fork of Lee Creek and Stroud Creek; correct? 13 14 Α. That's correct. 15 And then you removed the bridge, which was 0. 16 in Stroud Creek, and replaced that with a culvert; is 17 that correct? That's correct. It's -- I think is where I 18 Α. 19 got mixed up, I was looking at the wrong corner of the property here in the -- down there I think that I'm --20 21 let's see. We've got a map somewhere. It --THE HEARING OFFICER: Why don't you ask your 22 23 next question. 24 That was my question. MR. BROMLEY: He was 25 providing more -- more answer. I just asked the

1	question, Mr. Hearing Officer.
2	THE HEARING OFFICER: He's answered that one
3	MR. BROMLEY: Yeah.
4	THE HEARING OFFICER: about culverts and
5	bridges. Move jump to your next one.
6	MR. BROMLEY: Okay. I
7	THE HEARING OFFICER: Okay.
8	MR. BROMLEY: He was speaking, so if you're
9	cutting the witness off, that's [unintelligible].
10	THE HEARING OFFICER: Well, he answered your
11	question.
12	MR. BROMLEY: Of course he had.
13	THE HEARING OFFICER: And then we were kind of
14	heading down some other path.
15	MR. BROMLEY: Yeah.
16	THE HEARING OFFICER: So I just we'll take
17	if you want to have him dig into it, you can ask that
18	question.
19	MR. BROMLEY: No, I wasn't the one who asked him
20	to stop speaking, so
21	THE HEARING OFFICER: Yeah.
22	Q. (BY MR. BROMLEY): The sizing of the
23	culverts, was that a guess on your part, or did you
24	have any engineering that went into it?
25	A. I've been an engineer on that ranch for

years. And I can tell you awful close to what 1 2 something is. MR. BROMLEY: Okay. I don't have anything 3 4 further. 5 THE HEARING OFFICER: Okay. Ms. Foster, anything from you? 6 7 MS. FOSTER: I'm good. THE HEARING OFFICER: Anything, Mr. Manwaring? 8 I have a couple questions. 9 MR. MANWARING: THE HEARING OFFICER: 10 Okay. 11 12 CROSS-EXAMINATION BY MR. MANWARING: 13 James, you mentioned in your testimony that 14 0. 15 you dug something or cleaned something out twice. 16 I was just a little vague on what you were talking 17 about. Can you explain what you were doing? 18 19 Α. Is what I was doing is I was cleaning that west springs. 20 It fills up with fine silt. It's all those little springs coming in all along there. 21 course, they keep washing. It's like any swamp where 22 it's been cut. It's got pretty steep banks there now. 23 24 And that just keeps flowing in there and filling up. 25 And every so many years you have to clean it out.

1 On Exhibit 154 when you say that you were 0. cleaning up in the west springs, is that the ones that 2 are in section 32? 3 Let's see. Just a minute here. I don't 4 Α. see section 32. 5 That's 31. THE HEARING OFFICER: 6 No, it --7 THE WITNESS: No, it's in 31. (BY MR. MANWARING): That's the east 8 Q. 9 springs that are in 32? 10 Yeah. Α. 11 0. Okay. So in section 31 is the west springs 12 that you were cleaning out? And I have cleaned some on the east 13 Α. Yeah. 14 springs, but it's -- it's nothing like the west 15 springs. The west springs is tough. And how -- when's the first time you did 16 0. 17 What year probably? that? Oh, I was trying to think when I got at 18 Α. 19 that first -- it would have been probably back in the '60s too. 20 And the second time? 21 Q. And the second time probably -- I'm going 22 Α. to say probably in -- I'm going to say probably early 23 24 '90s. And just describe what you mean by 25 Q. Okay.

1	cleaning them up. Would you just shovel things out?
2	digging things out? scooping things out?
3	A. Well, just assume there's just a great, big
4	ditch there now. And these springs keep washing in
5	from the sides. And they just got a little dirt, they
6	just keep bringing just a little, little, little until
7	after somewhere, 20 to 30 years, why that thing's about
8	full of silt again. And you have to go through it and
9	clean it all back out.
10	Q. Okay. So you weren't digging in the
11	channel of Stroud Creek, you were digging in where the
12	springs are?
13	A. I was digging in the west springs.
14	MR. MANWARING: Okay. Nothing further.
15	
16	EXAMINATION
17	BY THE HEARING OFFICER:
18	Q. Mr. Whittaker, I had intended to ask Jordan
19	these questions, but you might actually be the better
20	person to ask.
21	In your time, then, running irrigation
22	water on that property, you've been involved in
23	water in the Water District, Water District 74Z; is
24	that correct?
25	A. That's correct.

1	Q. Okay. So you've worked with watermasters
2	over the years or have
3	A. I have.
4	Q had interaction with watermasters over
5	the years?
6	Are you familiar with how the water rights
7	are administered in that Stroud Creek drainage?
8	A. I'm I think I'm more knowledgeable on
9	more drainages up there on the distribution of water
10	rights probably than anybody up there, because we have
11	more tributaries that we're involved in. But yes, I
12	am. And
13	Q. Stroud Creek would be one of those?
14	A. And Stroud Creek is one of those.
15	Q. Does if we went back prior to 2015 when
16	the Kauer Ditch was still in use, did the watermaster
17	ever regulate your Stroud Creek diversion based on
18	diversion rate?
19	A. Yes. Right there at the Cal Whittaker
20	house.
21	Q. At the Cal Whittaker house?
22	A. And I'm glad you asked that question,
23	because what made this thing work is easy. In below
24	that point all the water was ours. And from there up
25	to the well, we had they measured our water

- right. We've always had a weir right there at the Cal Whittaker property there in that ditch. And it's always been measured there as long as I can remember.
 - Q. Uh-huh.

- A. And when that water was in the Kauer Ditch, basically is all they had to do, with the exception of real high water, was go to that upper diversion there where they check ours and then go up and get Cal's, because they've got those sideboards on that we talked about, making them senior water rights.
 - Q. Uh-huh.
- A. And then basically they're -- most of the season there, if Bruce called on it, all the rest was his. And it went into the Kauer Ditch. It went around there, and that's all there was to it.
- Q. So -- so when you say you'd been be -- if you had more than the 4.4 cfs -- and if we're talking just the senior rights, it's something less than that, but if there was more water at the -- at your -- at the Whittaker diversion down -- down in the yard, then there would be adjustment made upstream to send more water through the Kauer Ditch? That's how you described regulation?
- A. Yeah, it's all -- all just prorated according to --

1	Q. Okay.
2	A when the water rights were. Just our
3	two early water rights is the only one that had the
4	sideboards on. The others didn't.
5	Q. Yeah.
6	A. They was
7	Q. Since the Kauer Ditch had since the time
8	that the Kauer Ditch was closed and hasn't been used,
9	has the watermaster limited you to your water rights at
10	that Whittaker Ditch?
11	A. Yes.
12	Q. And then the rest of the water goes into
13	that other channel headed to the north?
14	A. Yes.
15	Q. Okay. Have here's a question for you:
16	So you're familiar, then, with the water rights held by
17	Foster and Tomchak, and that they're junior rights
18	compared to the 1883 rights?
19	A. Right.
20	Q. Have they been shut off in the past to
21	provide water to McConnell? Have they have the
22	Foster let me ask it this way.
23	Have the Foster and Tomchak rights been
24	curtailed in order to provide water to McConnells'
25	senior rights?

1	A. Oh, sure.
2	Q. Okay.
3	A. Sure.
4	Q. And that and that existed prior to 2015?
5	That was the case prior to 2015?
6	A. No, that's well, that's happened since.
7	Q. And that's happened since 2015?
8	A. McConnells got the senior water right. So
9	it's got to be filled or I don't know.
10	Q. So my question is, those rights, those
11	junior rights, have been regulated against McConnells'
12	senior rights in the past?
13	A. They have, yeah.
14	Q. Okay. And that's as long as you've been
15	familiar with the Water District?
16	A. Yeah.
17	THE HEARING OFFICER: Okay. Mr. Harris,
18	anything else?
19	MR. HARRIS: No. No follow-up.
20	THE HEARING OFFICER: From any of the other
21	parties? Okay.
22	MR. BROMLEY: I have just a follow-up question,
23	so
24	THE HEARING OFFICER: That's okay.
25	MR. BROMLEY: Is that all right?

1	THE HEARING OFFICER: Yeah, that's okay. Yeah.
2	MR. BROMLEY: Thank you.
3	
4	FURTHER CROSS-EXAMINATION
5	BY MR. BROMLEY:
6	Q. So the McConnell points of diversion are
7	down down below you, down below Tomchak and Foster;
8	right?
9	A. Right.
10	Q. So if that spring water always got to them,
11	it seems like the litigation of Whittaker versus Kauer
12	was accomplished to keep that spring water from going
13	to them?
14	A. I'm sorry. I don't know if I understand.
15	Q. That's okay. It was it was poorly
16	stated.
17	The Whittaker versus Kauer case was what
18	was the what was the reason for that case?
19	A. Well, it was to protect the spring. Kauers
20	wanted our spring. And so they went to bat. And it's
21	just exactly why we're in this room today trying to
22	settle the same same deal. It's res judicata or
23	however you say it.
24	Q. Res judicata.
25	A. Yeah, okay.

Q. That's silly Latin words that we learned in law school.

But if they couldn't have received the spring water, there's no reason to have had the case; is that true?

A. I'm sorry?

- Q. That's okay. So if they couldn't have received the spring water -- you know, if the spring water wasn't going to get to them anyway because of where the -- you know, how the hydrology of the system worked, you wouldn't have needed to file a case? The case made your spring rights senior to them, effectively; is that true?
- A. I don't know. It is -- it's -- it's basically just the same. They -- they were making a call on what was -- rightfully had been used for at that time they said 40-plus years. And if you'll go to -- they have quiet title in Idaho Code. And it's Whittaker versus Kauer. And it says that irregardless of whether the spring was private or public, you can quiet title to it.

And so -- and that's the other reason, I had no idea that a call could ever be made on this water, because quiet title, in my mind, we had a case.

And that's why you have a case is to settle title to

1 it. And that's what --2 THE HEARING OFFICER: This was a similar question that you asked of a previous witness, and I 3 4 understand the purpose of the question. So I think 5 we're all right. That's fine. MR. BROMLEY: Yeah. Thank you. 6 7 THE HEARING OFFICER: Okay. MR. BROMLEY: Thanks, James. 8 9 THE HEARING OFFICER: Thank you, Mr. Whittaker. 10 THE WITNESS: Okay. 11 MS. FOSTER: Hey, I got one question for James. 12 THE HEARING OFFICER: Oh, if you do, yeah, that's fine. 13 14 15 CROSS-EXAMINATION BY MS. FOSTER: 16 17 So, James, did you know that Bruce's lower Q. diversion was illegal? I mean had you known that for 18 19 all the years or --20 I'm sorry. I'm having a hard time hearing. That's fine. Did you know that Bruce's 21 Q. lower diversion was illegal? I mean has that always 22 been the case? Did you know that was illegal, that --23 or have you just always known him to use the upper one? 24 25 Α. No, I didn't know it was illegal. And

1	I'm I'm glad you asked that question. I want to
2	address that just a little more.
3	When the Kauer Ditch was in use, of course,
4	all that water went from the Left Fork to the Right
5	Fork in the Kauer Ditch and came down, and just as
6	Bruce has indicated, his upper diversion, they can't
7	divert that much water in it.
8	So it's how it's been used historically is
9	a re-diversion. They'd cut that ditch low and let that
10	water flow down, and it's come out that ditch.
11	And as far as I'm concerned, I don't have a
12	problem with that. But I have a problem with making
13	taking it down through our channel there and being able
14	to call on it with a seniority over our water that
15	we've used 90-plus years in the family.
16	THE HEARING OFFICER: Thank you.
17	Thank you, Mr. Whittaker.
18	MS. YENTER: We done?
19	(End of audio file.)
20	-000-
21	
22	
23	
24	
25	

Audio Transcription

1	REPORTER'S CERTIFICATE
2	
3	I, JEFF LaMAR, CSR No. 640, Certified Shorthand
4	Reporter, certify:
5	That the audio recording of the proceedings were
6	transcribed by me or under my direction.
7	That the foregoing is a true and correct
8	transcription of all testimony given, to the best of my
9	ability.
10	I further certify that I am not a relative or
11	employee of any attorney or party, nor am I financially
12	interested in the action.
13	IN WITNESS WHEREOF, I set my hand and seal this
14	6th day of January, 2022.
15	
16	
17	
18	
19	
20	
21	JEFF LaMAR, CSR NO. 640
22	Notary Public
23	Post Office Box 2636
24	Boise, Idaho 83701-2636
25	My commission expires December 30, 2023

-	11:18;68:17;203:18;	330:9	217:24
\$	222:16;314:24;318:21,25	actual (13)	adjusting (2)
Ψ	abstract (2)	130:18;136:23;139:10;	270:5,16
¢1 700 (2)	206:22;209:7	143:11,12,18;144:17;	adjustment (4)
\$1,700 (2)	acceptable (2)	147:24;184:18;187:10;	271:2;274:14,22;402:21
106:20;107:12	80:1;128:5	228:10;343:18;348:3	adjustments (4)
\$350 (1)	accepted (1)	actually (46)	147:7;270:5;276:7;288:24
107:13	85:3	66:1;67:21;74:13;94:11;	administer (18)
\$50 (2)	access (7)	103:18:134:1;136:5;138:18;	129:21;199:25;200:7,11,
107:7,10	71:8;154:24;157:14;	140:25;141:14;142:14;	13;202:1,2;206:13;214:9;
	168:15,20,21;221:12	149:20;158:19;159:22;	215:19;232:13;233:3;
/	accompany (1)	161:6;162:4;169:12;172:20;	239:10,15;245:14;246:2;
	313:18	178:1;206:3,4,22;207:19;	267:6;303:24
/// (8)	accomplished (4)	213:11;215:2;222:14;	administerability (1)
5:24,25;273:25;284:24,25;	126:4;210:25;380:3;	226:14;227:11;233:21;	237:16
351:23,24,25	405:12	238:15;247:21;252:15;	administered (31)
	according (7)	253:19;260:25;268:8;	60:11;66:24;108:12;
l	86:21;143:2;186:1;349:9;	288:15;299:18;306:7;	123:21;124:12;129:19;
	380:24;387:8;402:25	314:18;336:10;339:10;	181:11;182:9;183:21;184:3;
[phonetic] (12)	accurate (17)	343:15;344:21;349:5;	196:12;200:6;201:16;
74:18;85:18;91:21,22;	97:19;147:6,12;149:17;	343:15;344:21;349:5; 371:18;400:19	
92:6;198:3,4,4,5;307:25;	200:23;242:2;250:3;326:6;	3/1:18;400:19 add (14)	202:14,15,18,21,23;203:3; 214:24;215:4,16;218:15,25;
376:22;390:2	337:25;373:14,17;388:17,	10:24;14:19;36:24,24;	219:11;225:18;234:25;
[unintelligible] (40)		48:15;66:5;83:23;195:5;	
14:10;29:22;40:9,10,11;	18;391:14;395:21;396:5,9 accurately (4)		236:4;241:16;242:17;401:7 administering (3)
47:15;50:5;55:7,8,9;73:1;	147:21;240:13;273:12;	235:16;269:8;304:11; 316:15;333:2;338:12	215:22;303:5,9
74:4;94:19;96:16;98:15;	342:3	· · ·	administers (1)
124:5;130:23;143:22;	acknowledge (3)	added (4) 69:20,21;128:20;214:19	27:11
162:11;168:23;173:5;180:3,	68:24;201:6;232:10		administrable (1)
12;208:14;211:21;214:9;		adding (1) 71:19	213:16
246:8;258:24;320:9;321:10;	acknowledged (1)		
334:20;341:5;342:15;345:4;	256:3	addition (1) 15:14	administration (27)
346:10;350:22;377:21;	acknowledging (1)		13:19;17:14;62:5;73:5;
378:20;393:6;397:9	188:16	additional (4)	144:12,14;183:16;200:3;
· · · · · · · · · · · · · · · · · · ·	acknowledgment (1)	10:19;125:7;219:13;	201:19;231:9,25;232:11;
378:20;393:6;397:9 A	acknowledgment (1) 188:20	10:19;125:7;219:13; 237:25	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12;
A	acknowledgment (1) 188:20 acquainted (1)	10:19;125:7;219:13; 237:25 address (8)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20;
A ability (7)	acknowledgment (1) 188:20 acquainted (1) 294:18	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5;
A ability (7) 9:3;22:1,10,13;73:24;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19;
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15;
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23;	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8,	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16;	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6;	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25;	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admit (2) 230:14;366:21 admitted (9)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12,
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19,	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1
Ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1)
Ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22 absent (1)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19 actions (1)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19; 380:14,21;381:7,22,23;	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1) 193:4
Ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22 absent (1) 238:24	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19 actions (1) 103:8	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19; 380:14,21;381:7,22,23; 384:17	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1) 193:4 advertising (1)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22 absent (1) 238:24 absentee (1)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19 actions (1) 103:8 active (4)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19; 380:14,21;381:7,22,23; 384:17 adjust (3)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1) 193:4 advertising (1) 195:20
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22 absent (1) 238:24 absentee (1) 86:4	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19 actions (1) 103:8 active (4) 77:4,5;85:25;87:7	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19; 380:14,21;381:7,22,23; 384:17 adjust (3) 268:3;280:1;294:23	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1) 193:4 advertising (1) 195:20 advising (1)
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22 absent (1) 238:24 absentee (1) 86:4 absolute (2)	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19 actions (1) 103:8 active (4) 77:4,5;85:25;87:7 actively (2)	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19; 380:14,21;381:7,22,23; 384:17 adjust (3) 268:3;280:1;294:23 adjustable (2)	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1) 193:4 advertising (1) 195:20 advising (1) 169:20
A ability (7) 9:3;22:1,10,13;73:24; 170:3;336:23 able (23) 23:3;25:11;31:6;66:18; 71:16;103:17;113:16;141:8; 143:14,21;149:22;162:5; 169:9,10;170:14;199:24; 217:7;261:11;316:11;346:7; 380:6,8;408:13 above (23) 70:2;121:7,20,24;122:7,8, 12,13,13,14;138:11,13; 162:19;164:13;249:18; 252:3;310:10;324:16;325:6; 346:15;389:11,17;394:14 abruptly (1) 264:13 absence (3) 14:4;260:9;316:22 absent (1) 238:24 absentee (1) 86:4	acknowledgment (1) 188:20 acquainted (1) 294:18 acquired (1) 149:16 acre (2) 31:7;110:16 acreage (2) 388:11;395:3 acreages (1) 389:15 acres (8) 31:8;109:5,9;110:17,23; 111:9;336:13;370:22 across (10) 56:2;64:12;132:3;161:16; 252:25;253:7;309:25; 331:11;373:25;377:6 act (1) 232:7 action (2) 213:11;318:19 actions (1) 103:8 active (4) 77:4,5;85:25;87:7	10:19;125:7;219:13; 237:25 address (8) 34:5;106:11,12;266:20; 291:10;352:16;369:19;408:2 addressed (2) 32:24;271:13 addressing (1) 195:2 adequate (2) 234:24;235:23 adequately (1) 236:4 adjacent (2) 196:6;213:14 adjudication (36) 65:16;67:22;68:14,15; 85:22;116:15;117:19,20; 121:19;122:2;128:23; 142:19,20;146:19;158:8,14; 162:22;177:20,22,23;189:19, 21;206:1;207:9;209:21; 210:13,20;312:7;333:16,19; 380:14,21;381:7,22,23; 384:17 adjust (3) 268:3;280:1;294:23	201:19;231:9,25;232:11; 244:2;254:6;258:5;269:12; 292:9;306:7;307:8;316:20; 317:9;318:14,16;332:5; 337:22;339:20;381:5 administrative (8) 9:18;10:1;11:11;20:19; 123:20;157:14;168:15; 211:21 administratively (2) 170:8;380:6 admissibility (1) 18:4 admission (1) 197:14 admit (2) 230:14;366:21 admitted (9) 9:18;10:1,4;19:16;20:5,12, 19;65:17;157:23 admitting (2) 20:21;21:1 adopt (1) 193:4 advertising (1) 195:20 advising (1)

aerial (29)	246:10;256:14;312:11;	altogether (1)	18:10;190:7;219:7;
82:22;104:13;112:2;	316:23;318:20;372:11;	172:15	222:11;223:16;233:24;
116:7;117:1;147:17,21,24;	380:14;381:9,10	always (28)	238:20;254:24;255:1;306:14
148:20;158:23;159:1,4,8,11;	agreements (6)	67:18;76:20,23,23,25;	appearing (2)
160:3,6,7;162:20;163:2,5;	13:15;18:17,22;36:11;	82:5;87:10;134:12;144:15;	200:13;211:22
165:14;221:1,7,11;270:12;	246:3,3	145:24;161:21;162:15;	appears (20)
285:4;349:2;389:13,14	agreement's (1)	170:11,14;223:9;241:11;	103:4,25;118:6;158:5;
affect (7)	245:23	294:7;358:5;362:9;368:3,4,	161:6;164:6;195:4,14;
144:8;231:8;232:11;	ahead (25)	17;379:6;402:1,3;405:10;	197:25;199:24;206:21;
246:18;258:5,16;366:23	38:24;51:22;81:23;90:8;	407:22,24	209:19;216:22;238:21,24;
affected (2)	96:12;130:12;170:18,19;	amazing (2)	284:17;286:16;298:6,20;
273:9;312:5	177:4;184:9;190:13;191:4;	302:24;387:20	333:22
affirm (8)	207:20;265:24;277:23;	amended (1)	appendices (1)
26:6;96:24;97:1;191:1;	295:7;296:9;300:11;306:9;	312:6	184:20
266:12;290:16;352:7;369:10	325:3;330:13;340:4;361:14;	among (2)	Appendix (4)
afternoon (1)	381:14;384:13	215:6;265:18	101:15;136:10;184:19,24
74:18	akin (2)	amongst (3)	applicable (1)
again (56)	204:23;261:19	126:10;171:8;182:9	236:7
12:16;14:13;15:18;16:8,	alert (1)	amount (4)	applicant (5)
11;18:3,24;52:21;121:2;	36:11	78:7;304:24;336:12;	21:5;95:23;104:22;125:1;
130:7;132:24;140:12;141:1,	algebra (1)	358:13	220:24
15;143:16;169:4;175:21;	304:1	amounts (3)	applicants (6)
178:16;181:2,8,9;188:2,8;	alive (3)	185:24;186:1;268:22	8:7;26:2;96:20;101:16;
196:9;200:15;216:23;	294:5;331:22;360:1	analyses (1)	156:18;190:22
217:10,22;224:14;236:23;	allege (1)	157:3	application (16)
239:10;243:16;249:12;	121:9	analysis (7)	7:22,25;9:6;28:2;33:22;
250:7;254:25,25;255:20;	alleged (1)	14:24;16:4;116:16;128:2,	34:24;44:21;100:12,15;
263:23;316:12;324:7;	223:21	6;132:18;307:6	101:8;104:6;106:4;109:25;
325:12;326:21;329:17;	alleviate (1)	Analyst (2)	111:5;124:24;335:14
331:5,13;332:1,6;333:4;	342:4	7:7;191:21	applied (5)
346:3;350:9;379:2;384:6;	allow (5) 76:2;77:12;193:11;342:7;	analyzing (1) 128:4	171:22;214:21;224:9; 225:3;235:23
385:9;386:6;389:2;400:8 against (7)	350:24	angle (1)	
34:15;61:18;72:4;119:18;	allowed (3)	360:12	apply (2) 127:25;134:4
259:7;396:3;404:11	22:21;251:8;336:20	annual (1)	appointed (5)
agencies (1)	alluded (1)	151:22	192:3,7;193:24;217:14;
148:16	380:20	answered (6)	240:7
ago (8)	alluvium (1)	282:21;338:7,9;383:15;	appoints (1)
95:18;174:15,17;193:23;	231:22	397:2,10	241:2
304:9;341:22;378:16,25	almost (12)	anticipate (1)	appreciate (10)
agree (49)	77:15;81:1;180:16;	237:25	14:17;21:21;24:24;49:13;
13:15;41:23;47:23;67:15;	197:22;230:19;298:24;	anticipated (2)	81:17;113:23;115:25;
70:14;71:18;83:10;133:17;	347:23;360:12;369:24;	142:2;235:6	305:15;334:6;366:25
134:18;136:21;138:8;	375:8;386:15;390:9	anymore (3)	appreciating (1)
142:11;145:22;146:7,25;	alone (2)	62:9;131:19;285:19	334:10
147:8;158:5,10;160:2;	196:2;240:16	anyways (2)	approach (1)
162:15;167:2;168:4;205:1;	along (15)	309:21;318:1	224:2
208:6;211:2;212:22;213:3;	116:10;117:19;138:24;	apologize (9)	appropriately (1)
230:21;246:17;247:12;	153:16;156:3;182:19;185:6;	21:17;22:11,18;24:3;57:7;	234:25
254:7;255:6;259:20,21,25;	230:21;256:8;298:14,25;	69:15;164:15;282:20;300:1	approvable (4)
260:8;263:9;306:17,18;	320:7;323:20;344:25;398:21	app (2)	100:16;104:9;129:24;
312:2;313:25;330:25,25,25;	alter (6)	115:18,19	201:15
331:1;334:11;356:14;	108:11;154:9;259:4;264:1,	apparent (2)	approval (4)
379:13;388:13	5,7	158:7;330:15	125:9;196:3;235:1,17
agreed (5)	alteration (3)	apparently (3)	approve (2)
33:3;98:3;143:23;354:24;	155:4;259:6,9	214:6;234:9;389:4	235:7;318:2
395:24	altered (2)	appeal (1)	approved (9)
agreeing (1)	231:7;258:4	13:24	128:5,7,18;130:2;169:25;
333:24	altering (1)	appear (8)	170:6;195:9;316:14;380:5
agreement (27)	259:25	23:20;110:18;122:21;	approximate (3)
13:20,21,21,21;14:2,5,9;	although (6)	138:21;150:16;202:24;	163:10;287:11;324:23
17:20;35:13,15;36:2,20,21;	110:4;138:23;151:18;	209:8;330:8	Approximately (9)
86:10;245:17,20,21,24;	196:6;234:21;261:19	appeared (10)	28:24;30:17;58:13;74:21;

79:20;80:16;139:20;150:2; 286:4 April (3) 8:4;26:25;210:1 arbitrary (2) 310:12.13 arch (2) 393:3.9 ArcMap (2) 221:8,10 area (56) 42:12;47:10;48:9;49:22; 50:1;52:5;99:7;101:1; 133:20;139:4,5;148:22; 151:13;161:4;165:5,8;196:4; 217:4,15,16;219:25;220:10; 230:2,20;233:3,17;270:15; 283:3;297:15;302:12,13; 304:14;305:11;329:21; 344:6,16;352:25;353:1,13, 15;354:2,7,9,12,17;355:25; 356:4;357:13,14,15;358:15; 359:3;362:15;375:14,18,23 areas (3) 152:23;301:24;352:23 area's (1) 379:11 argue (2) 17:4;161:19 arguments (3) 10:11,20;19:18 arise (1) 76:14 around (37) 38:17;56:23;57:7,16; 84:22,23;114:18;129:7,9; 130:25;152:8;165:18; 170:13;184:6;217:13; 231:23;233:16;244:10; 245:5;261:14;264:17,18; 301:17;306:19;309:4; 328:24;344:5;346:2;352:23; 353:25;354:1;358:10,11; 359:12;376:1,11;402:14 arrangement (3) 256:13;311:23;312:7 arrangements (1) 194:18 arrow (1) 80:17 arrows (9) 80:19;81:2,4;116:10,18, 20;117:13;118:14,19 artificially (1) 165:9 Arvee (5) 85:17,19,25;86:2;87:4 aside (3) 153:18,19;168:10 aspect (2) 15:12;16:7 ass (1) 306:4

assessor's (1) 389:13 assign (1) 224:14 assistance (1) 7:17 assisting (2) 7:9.10 associated (2) 135:4,6 assume (9) 83:8;87:5;148:20;237:4; 247:17;249:16;288:25; 289:1;400:3 assumed (2) 67:18;274:19 assuming (5) 83:8,9;168:11;169:2; 194:10 assumption (1) 173:23 atmospheric (1) 153:8 Attachment (1) 100:18 attachments (1) 197:16 attack (1) 372:24 attempt (3) 195:11;216:8;263:10 attempting (1) 239:15 attended (1) 60:6 attends (1) 60:5 attention (5) 194:16;213:5;366:20,21, 24 attitude (1) 239:11 attorney (11) 8:8,13,16;68:20;108:18, 21;112:11;129:16;212:18; 274:4;347:1 audio (3) 7:1;95:25;408:19 August (20) 31:1,20;32:14,17;33:6; 38:11;53:14;54:12;56:6,13; 75:13;77:9;78:24;105:10; 106:1;194:15;219:6;223:21; 250:11:389:15 authored (1) 12:16 authority (3) 200:13;241:13;242:11 authorized (5) 70:23;195:6;250:19;

256:21;273:2

authorizes (1)

123:1

autonomously (1) 193:3 availability (1) 234:17 available (21) 12:14;60:19;61:2,10; 76:11;77:11;117:2;122:5; 155:14,17;169:7;170:16; 175:20;226:20;227:1,18,21; 234:3;250:18;251:12;317:22 Avenue (1) 291:11 average (2) 28:24;76:11 avoid (1) 318:24 aware (27) 17:9;37:17;59:20;60:20; 61:7,20;62:8;63:21,23; 88:14;91:14;93:9;94:5; 162:3,13;196:1,4;200:8; 222:21;223:3,9,10,11,12,16, 18:307:9 away (6) 114:23;178:22;217:25; 256:10;279:1;294:6 awful (5) 305:25;317:7,24;339:18; 398:1 awhile (1) 364:19 B

back (128) 27:24;30:17;37:5;38:9; 47:9;49:16;54:4;57:2;69:5; 72:13;74:19;77:24;79:25; 81:22;83:1;86:16;87:22; 88:15;95:15;99:2;102:19; 106:16:107:15:108:14: 130:21;132:17;136:10; 137:9;140:11;141:15; 154:10;158:12;159:3,19; 160:13;165:7;172:5;176:20; 177:6;178:20;195:18; 199:18,19;200:15,19; 204:12;211:6;212:20;215:2, 20;217:3;218:1;221:15; 229:1,23;243:17;244:25; 246:11;248:15;249:4,25; 251:24;252:23;258:19; 259:10;264:20,22;265:15, 16;275:19;277:17;281:23; 282:5,6;283:18,20,23;284:8, 11,11;285:13;286:5;288:1, 16;292:18;295:20;298:4,19, 24;299:7;302:25;303:25; 306:8;308:9,10;309:7,18,22; 312:16;314:5,6,8,11,13; 319:16,20,24;322:16;323:19, 22;326:21;328:13;329:8,9; 332:21;336:1,2;340:9;

April 21, 2021 351:19;361:19;372:11,15; 373:7:377:3;390:4;399:19; 400:9:401:15 back-and-forth (1) 86:24 background (1) 19:4 backhoe (4) 374:7,12;377:3;378:12 backhoes (1) 374:7 backing (1) 325:12 bad (3) 50:12;98:10;229:14 **band** (1) 375:24 bank (3) 278:10,13;374:16 banks (1) 398:23 bar (1) 304:19 barn (1) 285:22 barring (1) 202:23 Barrow's (1) 376:22 base (3) 119:14;157:10;389:16 **based (46)** 11:2;29:1;30:19;37:7; 70:11:106:23:107:1:108:12; 118:1,2,19;120:16;122:10; 132:22;133:4;139:9;142:16; 143:14;144:15;149:7;153:7; 159:1;165:3,4,11;168:7;

218:15;220:18;221:4; 247:16,17;249:15;255:18; 257:12,13,14;258:9;261:22; 332:4;383:12,17;401:17 baseline (1) 17:15 basements (1) 356:25 basically (22) 56:5;60:15;61:15;75:12; 193:11;205:7;244:12;247:4; 249:24;269:22;273:19; 280:5;287:4;300:19;373:2; 376:20;386:1;393:5;395:10; 402:6,12;406:15 Basin (21) 12:8;67:22;68:14;98:22; 99:3,9,11,21;158:8,14; 192:23;193:1;207:9;209:21; 210:13;214:7,19,21;215:3; 263:10;333:19 basing (2) 146:9:186:12

basins (1)

206:15,15,15;210:10;

	I .		
192:20	394:13;401:23;405:7,7	48:16;80:17,19;81:4;347:2	98:2,3;102:3;
Basin's (1)	beneficial (3)	Blackfoot (3)	119:12;129:13
99:11	78:13;127:13;203:25	13:14,17;18:18	137:15;156:13
basis (10)	benefit (2)	BLM (9)	162:19;175:22
14:21;19:15;106:21,23;	84:23;263:11	48:5,16;74:2,13;166:18;	201:24;214:6
108:1,9;145:16;147:16;	berm (1)	189:23;252:15;315:11;	221:23,23;22:
148:19;243:2	373:25	394:17	18;241:19;24
bat (1)	beside (1)	BLM/US (1)	252:20;261:20
405:20	342:22	8:4	268:15,25;269
bathroom (1)	besides (3)	blow (1)	279:16,24;30
177:1	130:24;368:14,14	346:2	372:22;377:1:
Baxter (3)	best (15)	blown (1)	bother (1)
18:21;212:19,24	67:4;79:14;137:21;147:1,	308:22	163:17
Baxter's (1)	4,9;200:1,5;232:22;241:18;	blown-up (2)	bothering (1)
213:5	319:23;339:17;379:15;	101:22;102:1	50:11
bear (2)	389:21;395:6	Blue (11)	bottom (22)
200:2;379:25	bet (2)	11:10;48:18;102:16,23;	32:20;42:11;5
bearing (2)	69:21;98:19	119:8,16,18,20,22;207:19;	84:10;106:18
15:8,10	better (9)	270:14	174:21;250:1
bears (1)	24:10;39:5,17;93:12;	bluff (1)	320:6,13;334:
19:12	102:5;227:13;255:14;	324:9	360:13;376:2
became (11)	378:10;400:19	board (11)	389:7;394:5
59:20;62:8;63:21;88:13;	beyond (3)	27:8,17,20;60:1,14;	bought (8)
99:5,12;243:21;248:12;	16:1;150:25;372:23	268:14;276:16,16,19;295:8;	29:5;35:23;36
257:2;267:18;309:5	bifurcated (3)	303:6	87:4;374:6;37
become (10)	65:20;118:9;229:22	boards (1)	boundaries (1)
175:20;243:23,24;267:13;	bifurcation (2)	284:9	49:6
292:6,13,15;294:19;307:9;	129:11;152:10	boasting (1)	box (7)
330:15	Big (30)	161:25	107:6;335:18
bed (1)	27:12;102:1;110:9,12,24;	body (1)	369:20;388:10
129:3	111:1,2;124:22;125:6;	248:12	boys (1)
beef (1)	126:10,15;139:4;152:8;	boggy (2)	370:17
28:20	164:2;178:18,24;217:16;	216:16;217:4	braided (3)
Beeler (1)	244:16,17;266:21;267:7;	Bohannan (9)	230:3;315:25
91:22	292:22;300:21;302:20;	198:4;199:14;304:17,18;	braiding (1)
Begin (1)	311:11;318:22;324:11;	330:7,14;347:18,21,25	252:13
7:1	344:10,22;400:3	Boise (2)	brain (1)
beginning (4)	bigger (6)	11:12;68:6	328:21
8:3;11:17;235:13;265:3	74:14;182:6;212:7;348:4,	bolster (1)	branches (1)
begun (1)	6;393:2	18:11	66:6
152:15	biggest (1)	bolt (1)	brand-new (2)
behalf (4)	384:25	342:5	296:12;300:10
7:6;8:19;22:5;381:19	binder (3)	book (25)	break (5)
behind (1)	65:5;101:21;174:3	25:24;31:12;178:2;	95:16;130:9;1
101:22	binders (2)	197:11;206:23,24;207:4,5,7,	372:6
belief (2)	271:11;306:10	8,19,21;208:4,9;267:21;	bridge (12)
133:4;389:22	binding (1)	295:13,14,16;315:3;332:21;	376:17,17,18;
belonged (2)	14:6	334:9;382:1,2,5,20	391:23;392:8,
259:10;336:17	bit (40)	boosts (1)	396:12,15
below (59)	28:8;31:10,19;34:12;	301:19	bridges (7)
37:7,15;44:16,22;45:4;	40:22;45:12;46:5;47:19;	boots (1)	376:9;377:9,1
70:10,15;71:7,8,20;76:20,21;	57:8,10,14;61:25;81:11;	331:9	378:1;397:5
78:14;91:19;92:5,20;94:2,	82:5;114:4;118:18;122:9;	born (3)	brief (3)
10;104:19;135:2;138:11;	148:4;155:20;182:1;195:22;	332:6;353:2;369:25	17:6;18:13;25
141:2;145:20,24;154:13;	217:4;231:23;237:22;	BORSTELMAN (11)	briefly (5)
167:15;168:14;176:1;183:5,	238:17;249:5;256:6;286:8;	5:19;351:22;352:1,6,17;	17:1;100:20;1
24;185:24;201:11;226:14;	287:14;292:18;296:25;	353:8;355:17;365:12;367:9;	122:17;175:3
227:7;231:3;233:23;234:5,6;	298:19,23;301:4;320:3;	368:7;385:7	bring (6)
257:10;258:11;270:6;	347:24;360:14;375:13;	boss (4)	12:14;89:12;2
272:10;281:7,9;315:12;	377:3;379:12	240:25;242:1,4,6	306:24;376:2
316:15;330:7,14;331:2;	bitty (1)	both (49)	bringing (2)
347:18;355:25;362:17;	299:1	13:23;22:8;31:1,3;53:24;	243:12;400:6
364:5;368:10;379:17;	black (5)	62:21;70:2;77:22;87:11;	broad (1)

157:5 19,22;275:22;276:7;280:5,5; broke (1) 289:1;307:20;308:25; 373:4 309:10;319:1,10;330:25; Bromley (235) 336:22;402:13;408:6 5:7.11.15.21:8:8:10:24.25: B-r-u-c-e (1) 11:4,16;12:8;13:4;14:16; 26:21 17:2,10;22:7,16,19,24;23:1, Bruce's (11) 6,13;24:1,2,4,9,15,21,24; 143:2;271:3;277:7,10; 25:2,5,16,18,20,23;26:11,13, 281:9;287:6;288:25;307:14; 16;29:23;30:4,6;38:15; 385:20;407:17,21 43:16;49:1,15;61:23;65:13; brush (7) 68:20;70:1;71:22;72:11,15; 84:4;305:23,24;376:4; 377:23;379:24;390:22 81:8,13,15,17,22,24;82:3,7,9, 13;83:21;89:22;90:13;93:6, brushy (1) 12;95:10;96:4,5,11,12,13,17; 297:15 97:5;98:1,9,12,16,20;108:13, **Bryce** (10) 16;111:21;112:3;113:22; 8:13;19:9;20:3;98:4; 114:2,7;115:23;116:2; 120:21;166:11;304:24; 118:23;128:8,12;130:4; 307:3,5;380:24 140:13,16;161:20,22;162:1; bubbler (6) 163:16,20,24;172:24;173:1; 296:23;297:7;302:2,9; 176:19,22;177:1,8,10,14; 303:3;308:3 178:5,9,12,15;183:1;184:5; budgets (1) 189:15;190:12,14;191:5,8; 193:5 197:15,18;207:18,22,24; builds (1) 208:1,3,21,25;209:10,12; 297:22 built (3) 219:14;242:18;243:10; 245:12;248:24;249:2;253:8, 217:21;297:20;300:14 14;254:4;262:9,11,15; bullet (2) 263:18,21;264:15,24;265:3, 37:15;112:19 7,12;273:23,24;274:2,3; bullets (1) 276:3,5;277:15;287:19,21, 37:7 bulls (1) 24;288:5,19;289:4,22;290:6; 319:5,6,9,10,13,16,19,24; 379:22 320:2,25;321:4,11;322:12, bumped (1) 154:3 19;323:3;325:4;327:23,25; 328:3,8,17,20,23;329:1,25; bunch (6) 330:2,17;333:17;338:14; 18:8;84:3,15;150:21; 339:24;346:17;351:11,17; 182:19;346:13 burdensome (1) 355:13,16,19;359:19,22,24; 361:11;380:12;381:14,15,18, 228:15 19:382:10,18,22;383:5,16, Bureau (1) 24;384:2,5;388:4;393:24; 12:10 394:8;396:24;397:3,6,8,12, business (1) 15,19,22;398:3;404:22,25; 357:6 405:2,5;407:6,8 button (1) Broncos (1) 288:13 180:25 buying (1) brought (6) 85:15 17:3;89:2;213:4;228:22; bypass (5) 325:20;384:1 76:1;217:21;297:6;316:6,6 brown (1) bypassed (2) 368:9 219:10;247:24 **Bruce (66)** bypasses (2) 7:23;8:7;25:2,11,18;26:1, 78:6,9 17,19,21,23;28:1,6;29:1,5, 12,24;31:10,15;33:23;34:7; 36:16,23;39:3,8;45:19;49:7, 12;50:13;55:10;56:20;82:14;

\mathbf{C}

Cal (16) 37:23;40:20;66:13,15,16; 310:11,12,17,17,23;311:7,7; 341:2;401:19,21;402:1 call (116)

25:10;39:3;41:25;42:6,16, 17;61:18;62:1,8,11,14,14,15; 70:24:71:9:72:1.4.7:73:15. 17;88:9,12,17,19;89:5; 96:13:123:10:167:25:168:5: 169:9,10;170:8,14;171:18; 172:7,17;173:10,15;177:24; 180:5;182:13;183:9;190:13, 14:191:13:196:18:203:2,20, 21,23;204:16,18,23;205:12; 218:25;220:14;222:23; 226:9,10,14;227:6,7,11; 228:11,22,23;231:10;242:15, 16,19,22;243:1,7,8,8,13; 244:5;245:1;246:24,24; 250:9;258:7,20;265:2,5; 269:17,17;274:10,12; 275:13;282:3,24;290:7; 296:1;301:25;314:10; 315:12;316:21;329:21; 336:23;337:4,5,8,9,19; 351:21,22;367:17;368:25; 375:23;380:7;390:8;392:12; 406:16,23;408:14 called (37) 7:14;26:2;35:4;62:13,18; 63:1;72:25;83:2;89:5;96:20; 120:9,19;124:19;131:19; 151:19;170:1;171:7;179:5; 182:9,24;190:22;207:3; 217:9;244:9,11;245:7;266:7; 274:9;290:11;350:8;352:2; 356:19;360:20;362:9;369:5;

385:12;402:13 calling (14)

25:2;71:4;88:22;202:9; 205:11;227:22;228:2;247:5, 10;265:9;274:5;304:15; 316:23;349:20 calls (15)

11:9,21:39:5;73:18:168:4; 226:3,13;227:12,15,25; 232:2;243:5;247:9,11; 255:16

Cal's (16) 296:4;297:19;299:4; 309:18,22;321:1;323:4,14; 325:13;326:19;328:5;329:2; 344:13;358:23;376:1;402:8

Calvin (4) 293:23,24,25;294:2

came (30) 32:4;49:18;59:19;79:25; 119:24;120:21;146:1; 167:15;168:13;197:5;208:4, 8;212:5;214:5;235:11; 248:11;258:21;261:25; 281:21;300:24;311:6,8; 312:21;314:8;315:12,17;

340:25;347:20;366:11;408:5 camera (1) 95:20

15:11;18:14;20:16;22:5, 14,23;23:19,20,24;26:11; 34:1:35:6:38:16:39:16.16: 40:4;41:4;43:19;45:12,19; 47:19;49:16;50:10;52:6; 54:2,17,25;56:9;57:10,18; 60:24;63:19;69:7;76:15; 78:3;79:11,15,16,20;80:24; 81:11,15,19;87:25;88:5; 91:8;93:13;94:20;96:15; 97:17:98:9,13,18:102:13,15: 103:8;106:2;108:13,14; 111:11,19,19,19;114:8; 115:21;116:7,21;117:10,14; 118:5,12,20;120:11;121:1,2, 6,24;123:25;127:22;128:5,6; 130:11,21;132:14,15;137:6; 138:17,19,19,21,25;139:12, 18;140:16;141:10,11; 143:10;147:6,7,19,23,24; 148:2;149:9,10,12,15; 150:14;153:5;158:17;160:3, 8,25;161:5,6,9;163:9;164:6; 166:11;173:7,23;183:11; 187:18;190:13,15;197:1; 199:21;200:7;204:1,3;208:5; 217:10,20,22;221:14;226:14, 17;227:10,21;228:2,4,16,23; 232:18;235:16;236:21; 241:17,18,20,22;245:11; 249:4;255:22;265:18; 269:20;270:16;271:9;272:6, 25;273:17;274:22;275:17; 276:1,21;277:2;278:12; 279:18;283:20;284:9; 285:12;288:15,17,20;295:6; 298:23;303:17;305:12,15, 17;310:6;315:19,19,19; 319:14,24;324:22;327:2,2,9; 334:16;337:4;343:3,16,20; 344:14;345:1;348:1,9,14; 351:21;356:8;358:6;360:7; 365:3,15:366:25:367:24,24; 374:22;380:2,16;382:5,17; 383:25;384:4;385:17; 387:15;389:10;393:16; 395:20;397:17;398:1,18; 402:3;406:20

Candice (2) 8:8;330:11

canvas (2) 75:23;313:13

capacity (5) 24:13;25:6;38:5;57:22;

291:16

capture (3) 71:16;169:1;292:19

captured (1) 350:4 car (1)

315:20 care (4)

27:25;87:21;196:18;

84:21;85:5;88:7;95:11,23;

142:5;194:14;268:17,25;

99:23;105:8,11;108:3;129:5;

269:3;270:8;271:9;274:4,8,

can (225)

200.24			
309:24	45:11;199:22	205:10;217:11,17;229:4,6,7,	380:20;3
career (2)	certain (8)	16,20,21,23,23;230:3,18,22;	Christense
152:6;192:2	141:25;149:11;159:1,25;	232:3;233:14,16,19,21,23;	390:2,7;
careful (1)	174:22;232:16;246:3;295:3	234:8,11,12,13,13;237:1,19,	chute (1)
395:19	certainly (12)	23,24;247:24;248:11;250:2,	243:12
carried (6)	11:19;18:6;24:10;139:19;	5,7;253:22;258:19;259:1,5,5,	Cindy (47
13:11;44:24;53:15;55:25;	146:8;153:5;158:5;182:16;	9;272:10,13,18;274:24;	7:7;25:6
129:18;182:17	187:22;188:16;213:23;	275:11,18,22,24;276:20,25;	34:5;72:
	241:14	277:2,6;280:10;281:9,11,18,	190:14,2
carry (6)			
53:19;54:21;57:22,23;	certainty (1)	22;282:1,3,3,22,25;283:3,7,	194:10;
58:1;375:2	306:21	13,21,24;284:6,8,15,16;	201:12;2
carrying (2)	certificate (4)	285:9;286:18,20,25;287:12;	212:21;2
201:9;233:24	389:7;395:4,23,25	288:1,21;289:8,13;298:7,20;	228:7;23
case (48)	certified (1)	303:13;304:15;305:7;	253:8;26
7:13,14;9:8,19;12:17;13:8,	391:16	312:21,25;313:5,13;315:10,	269:13;3
14;14:4;18:18,21;19:25;	cfs (27)	11;316:1,10;317:17;322:23;	313:16;3
20:14;23:23;35:4,15;36:3,	54:15;57:20,22;77:23;	325:6;327:4;328:6,7,10,13;	330:25;3
12,13,21;68:5;98:5;148:2;	106:23;110:17,21;111:8;	330:3,4;331:6;340:23;	385:14
153:20;154:20;198:14;	114:18,18;126:23;155:13;	341:20;342:24;343:4,7,8;	C-i-n-d-y
204:9;212:25;213:2,6,21;	261:12,14;262:1;273:7;	344:7,13,15,20,25;345:9;	191:11
214:8;222:17,18;247:13;	295:10;301:10;307:17;	346:18;348:23;349:7,10,14;	Cindy's (3
259:22;263:3,4;332:2;339:2;	310:10,11,14;317:21,22,23;	350:1;354:6,6;358:4,23;	32:23;29
404:5;405:17,18;406:4,11,	324:5;402:17	359:2;365:21;400:11;	Cippoletti
12,24,25;407:23	Chad (1)	403:13;408:13	300:10;3
Case-by-case (3)	74:17	channeled (1)	circle (9)
205:15,16;337:9	chair (1)	300:19	102:9,23
cases (5)	38:5	channelized (4)	179:10,1
11:11,20;205:6;228:14;	chairman (3)	219:3;289:6;325:16;329:7	362:14
395:11	27:19;60:16;241:21	channels (42)	circled (2)
Cat (5)	challenge (3)	91:2;114:24;129:8;	118:12;3
376:8,15,16;391:1,3	143:14,21;372:8	131:11;132:6;141:16;	circles (2)
catch (3)	chance (1) 210:22	143:24;144:4;150:4,15;	393:7,8
54:4,24,24		151:1,8;155:7;160:5,21;	circling (2
catches (2)	change (36)	164:16,18,20,21;173:22,25;	253:9,1
catches (2) 91:19;308:4	change (36) 15:13;16:14;21:18;44:1;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18;	253:9,11 circumsta
catches (2) 91:19;308:4 cattle (9)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7,	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20;	253:9,11 circumsta 203:1
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11;	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25;	253:9,11 circumsta 203:1 circumsta
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18;	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25;	253:9,12 circumsta 203:1 circumsta 23:8;235
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24;	253:9,11 circumsta 203:1 circumsta 23:8;235 citation (3
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4	253:9,12 circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12:
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1)	253:9,11 circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2)
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10	253:9,11 circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2) 11:4;17:
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14)	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2)	253:9,11 circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2) 11:4;17: citing (1)
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14,	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1	253:9,11 circumsta 203:1 circumsta 23:8;235 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2)	253:9,11 circumsta 203:1 circumsta 23:8;235 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3)
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3	253:9,11 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11)	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1)	253:9,11 circumsta 203:1 circumsta 23:8;235 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17 claim (3)
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,13 claim (3) 209:19,2
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3)	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17 claim (3) 209:19,2 claimed (4
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,13 claim (3) 209:19,2 claimed (4 158:9;2
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7)	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3)	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3) 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17 claim (3) 209:19,2 claimed (4 158:9;2 380:14
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3) 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,12 claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13;	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1)	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3) 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,12 claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23;	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183)	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,12 claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1)	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,12 claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67:
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20	253:9,12 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17 claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1) 285:3	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3; 114:21,23;129:2,11;131:16;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20 Cheryl (1)	253:9,1: circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17: claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2 clarification
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1) 285:3 center (10)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3; 114:21,23;129:2,11;131:16; 141:19;144:10;150:1,6,19,	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20 Cheryl (1) 12:10	253:9,1: circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17: claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2 clarification 14:20;18
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1) 285:3 center (10) 82:18;291:24;324:2,7,15;	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3; 114:21,23;129:2,11;131:16; 141:19;144:10;150:1,6,19, 22,25;151:3;152:10;154:16;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20 Cheryl (1) 12:10 Chip (3)	253:9,1: circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17: claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2 clarification
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1) 285:3 center (10) 82:18;291:24;324:2,7,15; 325:5,20,21;329:14,19	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3; 114:21,23;129:2,11;131:16; 141:19;144:10;150:1,6,19, 22,25;151:3;152:10;154:16; 155:3;160:25;161:6,10;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20 Cheryl (1) 12:10 Chip (3) 315:15,15,17	253:9,11 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17: claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2 clarification 14:20;18 clarification 90:12
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1) 285:3 center (10) 82:18;291:24;324:2,7,15; 325:5,20,21;329:14,19 centered (1)	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3; 114:21,23;129:2,11;131:16; 141:19;144:10;150:1,6,19, 22,25;151:3;152:10;154:16; 155:3;160:25;161:6,10; 164:7,25;165:1,21,21;166:1,	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20 Cheryl (1) 12:10 Chip (3) 315:15,15,17 Chris (10)	253:9,1: circumsta 203:1 circumsta 23:8;23: citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17: claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2 clarification 90:12 clarified (2
catches (2) 91:19;308:4 cattle (9) 28:20,23;30:15;86:11; 266:1;309:24;370:18; 375:24;376:22 caught (1) 92:8 cause (3) 157:8;168:16;206:13 caused (1) 289:19 causes (3) 196:14;345:13;385:17 caveat (1) 10:21 cease (2) 32:5;194:19 Cefalo (12) 7:4;22:8;24:9;87:13; 88:16;93:6;113:22;115:23; 244:25;265:4;286:2;382:22 Cefalo's (1) 285:3 center (10) 82:18;291:24;324:2,7,15; 325:5,20,21;329:14,19	change (36) 15:13;16:14;21:18;44:1; 86:6;104:24;142:17;144:7, 10,11;150:5;153:5,7,22; 154:14,15,20;157:7,11,12; 161:23;231:7,24;239:17,17; 251:11;258:3;259:19; 279:10,13;307:24;313:8; 314:24;333:7;336:11;354:21 changed (14) 103:20;118:15;142:9,14, 25;143:4,5,7,9;154:23; 155:15;280:24;337:24;378:6 changes (11) 90:23;131:15;162:5; 211:2;229:7;231:17;232:4; 233:18;258:14;356:6,21 changing (7) 108:10;145:19;294:14; 307:22,22;336:13;396:4 channel (183) 47:12,17,17;76:19,22; 78:22;79:1;84:13,23;91:3; 114:21,23;129:2,11;131:16; 141:19;144:10;150:1,6,19, 22,25;151:3;152:10;154:16; 155:3;160:25;161:6,10;	164:16,18,20,21;173:22,25; 217:21;219:7;220:18; 229:22;231:17,19;236:20; 247:14;252:13;259:20,25; 281:17,25;282:2;315:25; 354:21;379:16;390:23,24; 392:1,4 Chapman (1) 12:10 Chapter (2) 7:25;8:1 charge (2) 217:16;218:3 Charlie (1) 347:21 check (3) 279:16,19;402:8 checked (3) 119:18;211:1;335:19 checking (1) 73:10 checks (1) 21:20 Cheryl (1) 12:10 Chip (3) 315:15,15,17	253:9,11 circumsta 203:1 circumsta 23:8;233 citation (3 11:5;12: cited (2) 11:4;17: citing (1) 18:21 City (3) 13:13,17: claim (3) 209:19,2 claimed (4 158:9;2 380:14 claiming (384:15 claims (10 19:8;67: 25;157:2 clarification 14:20;18 clarification 90:12

381:19;386:5 en (3) ;395:5 5,13;31:22;33:12; :20;105:11,19;125:4; 21;191:9,11,12,14; 196:9;200:15; 207:3;208:8;209:2; 216:12;219:14,24; 33:15;239:20;240:3; 62:12;263:21; 300:6,6;309:5; 314:8,12,15,22; 336:18;340:20; **(1)** 99:11;306:12 **(4)** 322:10;342:2,3 3;120:25;164:1; 15;253:18;285:5; 362:14 nce (1) nces (2) 5:14 :4;13:13 :4 7;180:24 22;211:8 14:5;333:20; **(1)** :13,21;68:2,5,8,15, 23;214:2 on (3) 89:11;207:17 ons (1) 2) 20

204:21;206:17;235:1,16,17, 57:8,14;166:15;227:13; Code (5) 251:23 8:1;18:16;127:25;156:22; 21,22,25;236:4,7;338:23 296:1 communication (2) Classified (1) 406:18 73:3:308:12 conducted (1) coincidentally (2) communications (1) 191:21 7:24 confident (2) clay (1) 178:1.6 73:19 302:20 collect (11) compare (1) 281:10.13 clean (9) 216:20,24;248:8;252:6; 116:11 configured (1) 274:21;275:9;283:13,22,23; compared (1) 87:24 73:24;74:5,21;374:10,15; 376:8;391:3;398:25;400:9 confirm (4) 284:17;377:4 403:18 7:17;163:5;233:22;234:7 collected (1) competence (1) cleaned (4) 73:25;391:1;398:15; 323:19 20:17 conflict (1) 399:13 collecting (3) complaints (1) 241:23 285:10;286:18;287:12 87:14 confluence (79) cleaning (5) 74:11;398:19;399:2,12; collection (4) complete (1) 43:5;44:14;45:5;71:8,21; 400:1 216:18;238:23;275:7; 33:5 77:2,2;121:5;122:3,6;131:7, clear (45) 363:22 completely (8) 13,17,21,24;132:1,4,23; 7:10;11:10;15:3;17:18,24; collects (4) 11:7;12:23;14:14;117:7; 133:6;138:9,11,18;139:3,5; 20:16;21:10;22:7,17;23:14; 283:8,10;373:24;374:21 126:24;208:6;307:19;338:25 141:3,7,23,24;142:3;143:13, 29:20;47:22;49:2,3,11;80:8; color (1) complex (2) 18;144:5;145:19,20,24; 216:21,22 84:18;96:5;121:23;124:11; 48:18 149:20;153:25;154:13; 126:20,22;127:8;133:8,11; Colorado (1) complexes (1) 155:2,2;162:19;163:11; 238:15 139:1;160:4;172:4;199:19; 180:23 165:5;167:14,23;168:13,14, 248:12;277:2;279:13,21; colorful (2) compliance (7) 25;169:4;170:7;173:4; 280:20,21;282:1;298:24; 359:20;385:2 7:24;105:16;193:8; 177:17;178:19;180:5;183:4, 340:11;343:4;372:15,15; colors (1) 232:16;233:2,5,8 9,13,23,24;189:16;190:1,6; 376:1,10,22;395:21 117:5 complicated (2) 200:18,22;201:1,4;228:10; clearer (2) combination (1) 303:23;310:22 230:6;231:4;252:16;257:10; 48:22;52:7 62:23 comprehend (1) 316:16;329:21;390:8,13; 393:14;394:6,17;395:21 combined (4) clearly (17) 356:2 confluences (1) conceivably (1) 114:19;122:12;123:2,12; 8:5;109:7;136:1;183:16 149:24 126:14;128:21;160:25; combines (1) 219:11 conform (1) 166:2,3,5;182:18;188:20; 78:11 concept (1) 216:4;217:18;218:22; comfortable (2) 199:17 239:9 confuse (1) 238:19,19 236:8:261:24 concern (4) 11:24;195:2;239:6;316:18 clerical (2) coming (55) 281:17 12:22;19:4 69:7;77:20;80:21;141:18; concerned (9) confused (2) 222:22;224:23;243:4; client (4) 161:11,13,14;162:19;165:6, 361:1;368:4 255:16;318:15;339:16; 153:23;154:6,8;155:1 19;178:25;179:4,6,7;183:4, confusing (2) clients (1) 380:6,9;408:11 209:1;394:2 24;184:6;197:18;201:6,8,11; 18:12 221:22;226:13;233:22,23; concerns (8) confusion (1) climb (1) 234:1,19,19,21;247:24; 9:23;12:2;34:5;70:17; 148:4 331:10 249:17,18;251:8;252:2; 73:12;106:11,12;371:6 **Conjunctive (1) close (22)** 253:19;258:11;264:17; conclude (1) 242:22 33:4,13;50:10;52:9;70:10; 111:3 272:13;278:22;281:24; connection (2) conclusion (12) 102:25;118:13;126:23; 283:1;284:7;288:21;298:20; 7:21;111:4 140:10;148:3;179:25; 307:18;310:15,15;317:13; 16:11,13;129:16;158:2; connects (1) 320:7;322:9;350:8;363:10; 175:4,9;232:15;242:25; 194:18;256:20;268:8; 350:7 370:21;393:6;398:21 252:6;255:19;257:14;336:18 connotations (1) 281:21,24;342:7;354:5; 371:16,16;375:12;398:1 comment (1) conclusions (3) 242:19 149:2 16:10;128:14;176:15 closed (3) consent (3) 105:13;310:2;403:8 comments (6) concrete (1) 96:7,9;245:20 closely (1) 49:5;195:17,21;232:22; 75:20 consented (1) 119:19 255:8,12 condition (10) 95:23 closer (3) commissioned (3) 109:21;113:1,4;124:14; consequences (2) 57:12;88:2;279:7 385:4;394:20;396:2 170:1;184:4;186:18;199:10, 263:2,7 closure (1) 24:200:6 consequently (1) committee (2) 60:1;241:22 conditional (1) 214:8 33:5 cloud (1) common (5) 125:9 Conservancy (1) 187:22;216:23;350:7; conditions (26) 222:10 91:22 clue (2) 366:5,6 13:19;16:17;123:20; consider (6) 197:6;365:20 commonly (2) 153:8;171:17;173:20; 29:2;216:2;242:4,5,6,6 Coalition (1) 151:20.24 183:20:196:13.22:200:7: considered (2) communicate (1) 201:17,19,22,23;202:24; 11:9 241:5.8

consistent (8) 104:14;105:22;121:19; 127:16.19:129:10:150:17: 190:7 consistently (2) 122:6:333:12 consists (1) 129:3 constitutes (1) 44:5 constructed (5) 165:9;216:20,24;219:7; 302:18 construction (2) 15:17;255:1 consultant (3) 8:9,13;20:3 contact (1) 62:10 contacted (1) 68:6 contain (1) 19:22 contained (2) 10:11:19:14 contention (1) 166:6 contents (1) 34:9 contest (4) 140:2,4;141:8;143:15 contested (5) 9:8;12:8,17;19:25;339:1 context (3) 18:3;173:7;206:25 Continental (3) 300:20;317:10;386:16 continue (8) 155:24;191:13;197:1; 215:12;234:22;296:9; 383:25;384:4 Continued (4) 5:1;349:7,11;368:8 continues (6) 43:5;78:10;121:12;193:3; 323:25;348:23 Continuing (3) 116:3;121:21;275:13 continuously (1) 76:19 Contor (8) 8:14;12:25;18:9;20:3,4; 98:4;239:3;307:3 Contor's (2) 17:22;19:3 contract (1) 99:18 contractor (1) 291:22 contrary (1) 183:15

```
control (13)
  52:14;61:15;216:11;
  226:16;232:17,21;233:5;
  234:24;235:23;236:5;
  239:13:303:2.4
controllable (3)
  105:16;214:15,23
controlled (1)
  219:11
controlling (1)
  201:24
controls (5)
  216:6,9;217:23;218:2;
  219:13
convenience (1)
  80:4
converge (1)
  44:18
conversation (6)
  73:6;74:16,19;88:16;
  216:3;269:21
conversations (5)
  15:22;58:21;65:24;85:7;
  174:10
convey (1)
  155:13
conveyed (1)
  18:1
convinced (1)
  257:9
copied (1)
  32:18
copies (1)
  89:2
copy (11)
  35:19;37:23;59:18;65:13;
  79:16;134:7;206:7;212:17;
  382:4,6,7
corner (14)
  102:18;179:11,12;320:6,
  14;335:3;360:14,15;364:11;
  386:1,7,9;389:7;396:19
corners (2)
  302:6,11
corrected (1)
  189:22
correcting (1)
  103:21
correction (2)
  19:4;109:10
corrections (1)
  338:15
correctly (12)
  70:4;85:20;91:16;105:4;
  140:9;142:8;185:5,13;186:3;
  221:2;222:25;286:7
counsel's (1)
  114:2
country (1)
  354:1
County (4)
  27:2;292:3;370:23;389:13
couple (21)
```

19:6;53:20;56:15;89:11; 90:12;162:4;174:15,16; 177:11;182:5;230:24;231:1; 264:25;306:8;314:3;354:4; 361:23;375:12;376:9,10; 398:9 course (15) 23:9;24:12;25:8;33:19; 73:4;137:24;196:3,16;220:9; 235:16;370:18;372:8; 397:12;398:22;408:3 courses (1) 365:6 **Court (21)** 13:8;35:4,15;36:3,12,21; 129:15;198:13;210:16,23; 212:19;213:11,11,12;214:8; 264:4;311:24;312:9;318:19; 332:2;381:9 court-decreed (1) 198:13 courts (1) 13:24 cover (6) 90:5;148:3;160:10;208:7; 222:10.10 covered (3) 124:22;160:5;395:17 cow-calf (1) 28:20 cows (3) 27:25;290:3;294:13 Craig (1) 117:10 crash (1) 248:13 crawl (1) 380:4 crawled (1) 305:22 crazy (2) 236:1.3 created (4) 158:21,23;372:2;391:6 creates (1) 231:25 Creek (602) 19:23;26:24;27:12,12; 30:6,20;35:11;37:24;39:9, 10,11,12,13,14,14;41:22,23, 25;42:2,4,5,12,13,15,17,18, 22;43:2,4,5,12,13,14,21; 44:2,2,3,4,5,14,16;45:5; 46:10,11;50:1;51:10,12; 52:15,16;54:4;59:5;60:19, 21;63:15;64:16,18;66:13; 67:3,4,6,7,8;70:2,2,5,8,9,25; 71:4,10,21,21;72:4;75:8,11, 22;76:2,19,21;77:4,4,18,21, 22;78:11,11,22,22;79:1,4; 82:24;83:2;84:22;89:2; 90:17.18.20.23.24.24:91:4: 92:16;93:16;94:12;100:13,

24,24;102:7;109:5,17,17; 110:2,3,4,10,10,10,11,12,13, 22,24;111:1,3,4,9;112:24; 119:5,5,6,6,7,10,11,12,12; 120:9.9:121:11.11.12.13.23: 122:4,22;123:3,7;125:2,7,14; 126:11,15;127:14;129:2; 131:7,7,21,24;132:3,5,7,23; 133:6,6,15,16,21,21;134:13, 17,19;135:6,9,11,13,20,23; 136:2,6,13,15,17,19,24; 137:2,23;138:3,8,9,18,19,22; 139:2,3;141:3,3,7,14,14; 143:13,13,19,19:144:6,9,15, 16,17,17;145:17,18,19,21,22, 25,25;146:8;149:21;155:10; 162:19;163:11,11;164:19,19, 20,22;165:1,8,18,20,21; 166:1;167:5,22,22,25;168:1, 3,4,7,13;170:2,7,9,12,14; 172:10,11,14,18,19;173:16; 175:17,25;178:25;179:4,4,6, 7,8,9;181:10,11;185:8,12,24; 186:17,18,19,23;187:5,8,12, 16,23,24;188:22;194:1,5,5,6, 6,7,7,17;196:18;200:3,18,18; 201:7;202:8,16,22;206:10, 14;207:13,15;208:13; 209:25;211:16;213:15; 215:7;216:2,4;217:8,9,20,20, 22;218:6,7,8,17,18,19,19,21; 219:1,1,2,3;222:21;223:25; 224:4.11.12.12.22.23:225:7. 7,19,20,21,24,24;226:2; 227:9,10,11;228:8,9,10,10, 13;229:4,7,16;230:5,5,15,21, 23;231:2,8,9,9;233:13; 234:10;236:25;237:4,5,17, 20;238:9,20;239:16;246:21; 248:5;249:17,17;252:2,8,17, 17;253:21;254:7,8,11,16,18, 21,21;255:3,4;257:11,11; 258:4,5,6;260:10,16,17; 263:23,25;267:7,25;268:6, 16;270:24,25;272:10,13,14; 274:15,17,25,25;275:12,12; 280:3,10;281:6,11,20,21,21, 25;282:3,22,24;283:2,2,10, 11,17,19,21;284:6,8;289:8; 292:22;293:12,23;294:1; 295:9;297:12,23;300:17,21, 22;305:9,10;306:14;308:6; 311:18;312:16,18,20;316:16, 16;317:5,19;318:4;319:20; 320:5,17,20;321:21,23; 322:13,15,19;323:4,11,14; 325:6,14,23;326:5,5,17,20, 23;328:4;329:3,4;330:3,4,18, 20,20;331:7;333:14,20,21; 334:4;343:8;344:4,8,10,23; 345:9,18;346:12,18;347:13; 348:2.15.25:349:7:352:23. 24;353:13,13;354:6,6,12,12;

contrast (1)

123:25

356:10;358:23;359:1;	16:16;44:20,21;116:12;	210:11;211:18;232:21	133:24;158:12;172:1;
360:11,17,20,21;361:2,2,4,6,	125:18;146:5;155:17;	dated (5)	182:3,4,16;188:20;197:25;
7,20,20;362:1,1,2,4,6,8,9,10,	168:13;191:20;266:23;	102:11;103:23;105:10,19;	198:10,11,21,23;204:24;
19,20,20,21,23,24,25;363:1,	291:20;306:2;316:15;371:13	389:15	205:25,25;206:4,5,7,24;
3,4,5,9,11,13;364:22;365:5,	currently (8)	dates (9)	211:11,13;239:9;245:22;
8,9;366:9,16,17;367:14,14,	8:23;27:20;87:24;199:15;	38:3;100:25;101:9,11;	254:3;264:5;280:6;312:6;
17,22;368:8,12;370:10;	204:11;296:19;299:25;	108:12;109:18;174:14;	334:3
372:7;373:19,21,22;375:11,	303:12	267:22;337:1	decreed (18)
11;376:4;377:1,11,11;378:4;	curtailed (5)	Dave (3)	103:16,20;104:13;117:18;
379:8,17;380:7;384:9;385:8,	176:4;203:24;204:12;	8:15;305:16;308:16	123:22;145:7;158:16;
8;386:19;387:14;390:8,9,9,	251:2;403:24	David (1)	185:25;186:2;198:6,7;218:6
14;391:11,12;392:6,10,12,	curtailing (1)	10:13	226:6;228:9;232:2,4;260:6;
13,16;393:2,4,10,14,15;	176:11	day (20)	384:8
396:13,13,16;400:11;401:7,	curves (1)	70:6;131:16;200:23;	decrees (10)
13,14,17	230:21	201:10;218:14;233:24;	129:18,22;146:11;152:15;
Creek/Left (2)	cut (8)	246:24;252:4,11;264:22;	158:11,12;199:16;207:9;
325:23;331:6	49:2;113:7;306:23,24;	268:24;352:22;361:1,19;	214:7;245:13
Creek/Stroud (1)	317:3;347:19;398:23;408:9	370:11;376:10,23;378:25;	deed (1)
325:23	cutting (1)	384:19;395:10	35:10
creeks (8)	397:9	day-by-day (1)	deeded (1)
41:19;153:25;196:19;	CV (1)	205:18	59:19
218:11;235:2;267:5;353:21;	98:8	days (8)	default (1)
366:16	cycles (1)	31:23;74:3,5;89:11;	23:23
criteria (1)	153:8	147:12;372:12;376:23;	defaulted (1)
18:15	100.0	378:11	23:19
cross (3)	D	day-to-day (1)	defendants (1)
49:12;130:10;309:23	_	200:2	198:5
crosses (9)	dad (12)	deal (8)	defer (2)
56:3;161:3;253:21;296:11,	294:15;363:16;368:18;	15:15;205:7;239:6;305:7;	194:4;224:17
16;297:14;313:4;349:24;	374:9;375:5,6,21;376:7,12;	307:15;323:16;376:11;	define (1)
387:9	387:20;394:20,21	405:22	62:12
Cross-Examination (25)	dad's (1)	dealing (3)	defined (5)
5:7,8,15,16,21,22;39:1;	364:21	35:14;36:12;153:23	166:2,5;204:17,18;280:10
49:7;57:4;130:15;156:9,12;	daily (2)	deals (1)	definite (1)
219:22;240:1;274:1;278:4;	193:12;220:9	378:13	373:1
319:8;327:17;340:7;355:15;	dam (18)	dear (1)	definitely (1)
361:17;381:17;398:12;	75:14,15;76:20,21;278:9;	180:24	231:2
405:4;407:15	279:5;303:11;311:12;	decades (2)	definition (1)
cross-examine (2)	313:13;345:12;346:4;	128:21;220:25	203:22
9:3;22:3	347:13,14,15,19;372:6,6,14	deceased (2)	degree (1)
cross-sections (1)	damn (1)	86:2;335:8	99:1
16:17	315:22	decide (4)	deliver (12)
crumbs (1)	dams (1)	25:9;215:18;246:23;	62:14;171:3;182:10;
280:7	294:15	263:14	193:12;226:21;227:5,17;
cubic (1)	dancing (1)	decided (5)	228:3,24;244:6,7;294:23
106:24	165:17	95:21;182:14;238:2;	deliverable (1)
culvert (15)	dandy (1)	256:11;265:17	305:18
179:25;249:13,13,14;	191:15	deciding (1)	delivered (8)
253:21;376:18;391:19,22,	Danish (1)	20:14	60:10;126:24,25;183:10,
25;392:5,9,20,21;396:12,16			
		decision (17)	17;226:16;228:17;229:2
culverts (29)	99:8	decision (17) 13:9,10;15:2,4,8;17:9,23;	
	99:8 dark (2)	13:9,10;15:2,4,8;17:9,23;	deliveries (1)
161:3;179:24;248:16,17;	99:8 dark (2) 119:8;255:13	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23;	deliveries (1) 127:7
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21;	99:8 dark (2) 119:8;255:13 Darrell (5)	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12;	deliveries (1) 127:7 delivering (2)
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5;	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20	deliveries (1) 127:7 delivering (2) 126:22;246:7
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21;	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2)	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12;	deliveries (1) 127:7 delivering (2)
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12,	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2) 186:21,21	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1) 182:14	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17)
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12, 15;378:1;379:4,7;390:17,21;	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2)	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1)	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17) 11:9,21;61:18;62:1;88:9,
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12, 15;378:1;379:4,7;390:17,21; 392:22,23,24;393:13;397:4, 23	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2) 186:21,21 dataset (1) 162:10	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1) 182:14 decision-making (1)	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17) 11:9,21;61:18;62:1;88:9, 12;131:19;203:2;204:10;
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12, 15;378:1;379:4,7;390:17,21; 392:22,23,24;393:13;397:4,	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2) 186:21,21 dataset (1)	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1) 182:14 decision-making (1) 7:13	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17) 11:9,21;61:18;62:1;88:9, 12;131:19;203:2;204:10; 242:15,16,18,21;243:1,8,13;
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12, 15;378:1;379:4,7;390:17,21; 392:22,23,24;393:13;397:4, 23 culvert's (1)	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2) 186:21,21 dataset (1) 162:10 date (19)	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1) 182:14 decision-making (1) 7:13 decisions (2)	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17) 11:9,21;61:18;62:1;88:9, 12;131:19;203:2;204:10; 242:15,16,18,21;243:1,8,13; 273:14
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12, 15;378:1;379:4,7;390:17,21; 392:22,23,24;393:13;397:4, 23 culvert's (1) 378:3	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2) 186:21,21 dataset (1) 162:10 date (19) 32:12,16;105:19;123:23;	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1) 182:14 decision-making (1) 7:13 decisions (2) 9:7;17:9	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17) 11:9,21;61:18;62:1;88:9, 12;131:19;203:2;204:10; 242:15,16,18,21;243:1,8,13; 273:14 demand (1)
161:3;179:24;248:16,17; 249:9;253:7;305:4;329:21; 342:25;343:13,16;354:5; 355:25;375:13;377:8,10,12, 15;378:1;379:4,7;390:17,21; 392:22,23,24;393:13;397:4, 23 culvert's (1) 378:3 curious (2)	99:8 dark (2) 119:8;255:13 Darrell (5) 29:8;48:6;85:7;86:7,15 dash (2) 186:21,21 dataset (1) 162:10 date (19) 32:12,16;105:19;123:23; 124:18;159:2;181:24;	13:9,10;15:2,4,8;17:9,23; 18:23;19:12;66:4;71:23,23; 129:15,17;212:19;213:12; 256:20 decision-maker (1) 182:14 decision-making (1) 7:13 decisions (2) 9:7;17:9 declare (1)	deliveries (1) 127:7 delivering (2) 126:22;246:7 delivery (17) 11:9,21;61:18;62:1;88:9, 12;131:19;203:2;204:10; 242:15,16,18,21;243:1,8,13; 273:14 demand (1) 71:10

dense (4)	description (6)	died (2)	327:1
148:3;160:5;230:12,18	17:24;103:10;105:4;	310:23;324:13	disagree (4)
densely (1)	115:1;152:14;388:9	diesel (2)	11:18;142:12;212:22;
84:17	descriptions (3)	301:12,15	354:20
Denver (1)	68:13;253:9;388:9	difference (7)	disagreed (1)
180:25	design (1)	13:16;117:3;128:25;	213:5
deny (1)	291:22	144:3;170:15;356:23;357:20	disagreement (4)
20:1	designated (1)	differences (1)	167:19;242:10,16;244:1
Department (51)	362:18	356:18	disagrees (1)
7:5,6,8;9:8;11:8,20;12:5;	designed (1)	different (69)	213:1
13:14,22,23,25;23:22;24:11,	324:3	12:15;14:3;19:6,12;30:21;	disappear (1)
16;91:24;99:19;103:9;106:6;	despite (1)	41:18;56:15;67:19;72:2;	305:25
107:1;116:25;119:24;	149:21	74:9,10,10;76:8;91:2,20;	discharge (1)
124:11;128:3;129:20;	detail (11)	99:20;100:25;103:18;109:9;	261:22
133:23;136:22;145:10;	18:18;58:21;148:10,12;	116:24;117:5,8,20;119:2,3;	disconnect (1) 204:5
147:20;162:9;169:15; 191:18;201:23;210:16;	365:1,2;388:7,11;395:1,3; 396:1	120:3,22;122:10;127:4,7; 128:3,23;131:11;132:6;	discovered (1)
212:25;214:20;215:20;	detailed (4)	133:17;136:23;140:1,3;	258:10
218:12;221:5,7;224:7,10,13;	127:2;148:18,24;149:3	143:12;152:11,20,22;	discovery (2)
225:15;235:7,15;238:6;	detailing (1)	154:17;202:9,9;205:9,10,11;	19:11;63:20
241:2,20;246:6;262:20;	388:11	207:25;209:8;224:24;	discrepancies (2)
384:20	details (5)	230:16;237:23,24;238:14;	162:5;215:12
Department's (14)	125:8;127:6;306:1;	245:19;261:22;262:5;	discretion (1)
8:2;9:6,9,11;20:11,15;	366:22;388:23	281:25;293:5;307:15,16;	235:16
23:17;33:19;93:7;96:7;	determination (13)	326:24;361:24;370:20;	discuss (8)
103:13,14;117:6;246:9	15:13,16;128:4;132:22;	371:2,3;384:21;395:12	23:21,25;35:4;67:2;
depended (1)	142:16;150:4;169:6;204:23;	differentiated (1)	109:13;110:25;175:1,9
380:10	205:12;254:24;260:11;	123:14	discussed (6)
depending (5)	337:9;339:3	differently (2)	113:2;128:22;175:3;
150:6;203:4;226:5,7;	determinations (1)	123:22;206:13	177:18;192:13;231:15
298:16	205:7	difficult (5)	discussing (4)
Depends (3)	determinative (1)	161:11;230:9;289:18;	82:15;212:19;263:22;
160:7,10;222:9	18:6	327:15;389:3	352:23
depict (2)	determine (6)	dig (2)	discussion (9)
160:20;292:21	157:3;190:1;203:20;	356:25;397:17	15:21;46:10;63:14;95:18,
depicted (6)	213:25;237:19;346:7	digging (4)	21;107:7;255:25;312:15;
51:8;102:16;159:17;	determined (4)	400:2,10,11,13	375:10
292:25;296:6;345:1	18:14;204:19;256:21;	dimensions (1)	discussions (1)
depicting (1)	315:6	74:21	200:4
373:15	determining (2)	dinner (1)	displayed (1)
depiction (2)	104:6;147:25	369:2	133:14
102:22;142:20	detriment (1)	Direct (15)	dispute (11)
depicts (2)	263:12	5:6,14,20;26:15;68:18;	62:6;73:5;167:17;168:12;
373:12,12 deposition (2)	devastation (1) 380:10	97:4;111:4;130:5;191:7;	169:3,4;210:22;228:6;
150:7;152:10	developed (5)	266:17;291:7;313:9;352:13; 367:24;369:16	269:13,16;385:3 disputing (2)
deputy (3)	159:10;168:22;170:11;	directed (1)	167:16;392:16
212:18;305:16;315:14	171:7;218:24	383:8	distance (4)
DEQ (1)	development (2)	directing (3)	80:5;283:16,19,24
85:2	238:22:260:9	14:2,4,8	distances (1)
describe (10)	device (14)	direction (11)	115:21
65:25;79:7;109:6;194:13;	55:12;79:21;80:25;216:7,	15:4;46:13,16;239:1,4;	distant (2)
297:17;310:7;312:7;313:2;	8;233:9;239:14;262:3;	286:11;289:3;297:7;349:13;	114:25;165:1
336:3;399:25	278:15,24;279:7,14;296:18;	357:4;368:5	distracted (1)
described (13)	341:23	Directions (3)	50:7
125:4;139:6;142:1;202:5;	devices (9)	105:21;326:24;361:24	distribute (2)
255:6;313:25;339:13;350:7;	79:9,24;115:7;214:24;	directly (3)	182:10;275:17
354:20,23;356:13;371:13;	215:9;232:21;236:5;260:24;	199:10;210:20;308:14	distribution (12)
402:23	279:24	Director (2)	58:11;99:10,15;169:21;
describing (8)	DHI (1)	241:20;315:20	181:23;242:11;256:9;292:7
50:23;109:21;119:1;	99:9	dirt (2)	295:2;307:11;310:8;401:9
124:2;203:13;233:14;	diameter (1)	331:11;400:5	District (43)
300:12;371:9	179:11	dirt's (1)	11:11,22;17:9;27:7,10,11;

38:6;59:16,21;60:1,10; 66:17:126:19:191:23:192:3, 12,17,18,19,24;193:1,2,22; 213:17;214:11,12,19,22; 215:3,5,15,16,21;240:8; 241:10;242:15;266:25; 268:5,14;318:19;400:23,23; 404:15

districts (6)

192:11,25;215:18;240:16; 241:7,11

disturbed (1)

302:18

Ditch (237) 13:4;15:5,7,17;16:5,12; 17:13,24;18:1,11;34:24; 37:3;47:12,14,21;51:15,18, 25;52:17,18,18,22,23;53:12, 17,19;54:17,25;55:1,13,15; 57:21,25;59:12;63:22,23,25; 64:7,13;65:20;66:1;73:25; 74:4,6,14,22;75:7,15;76:1,3, 12;77:5,6,11;78:9,16;79:9, 21;80:2,14,15,23,24;88:1,1, 3,5;92:3,13,18,19,19;93:16, 17;104:25;114:17;115:4; 116:8;118:7,8,9,10,13,20; 125:23;129:1;139:19;154:3; 155:12,15,17,20,22;158:6; 216:23;218:1;221:14,17,21, 22;222:2;238:23;256:15,20; 257:6:259:23:274:21:275:7, 9;276:10,14;278:15;282:23, 23,25;283:1,4,7,12,17,18; 284:6,7;286:9,20,21,22; 289:14,16;297:6,9,18,21; 298:3,4,23,24;300:11; 301:15,24;302:3,7;303:10, 23;304:2,16,16,17,18; 306:23;308:22;309:1,7,12, 23,25;310:2,8,18;311:1,12, 19;316:6,7;317:14,22; 322:14,22,24,25;323:17,18; 324:17;325:16;326:3;327:9; 330:7,14;339:6;340:17; 341:1,11,15,18,19,21,21,24; 342:8;344:17;346:2;347:16, 17,18,20,20,22,25;348:17; 349:8,19,19,20,25;350:6,7,9; 364:11,16;365:17,23,25; 366:1,5,6,7;368:9;373:24; 374:1;375:2;385:13;386:25; 387:5,6;400:4;401:16;402:2, 5,14,22;403:7,8,10;408:3,5, 9,10

ditches (26)

31:3;78:15;92:16;102:15; 116:9,10,23;125:22;142:24; 216:18;217:1;289:5;301:5; 323:12,15,22;324:1;326:15; 328:9;329:7,8,9;344:5; 363:23;373:13;387:22

diverges (1)

Min-U-Script®

129:12 diversion (384) 15:13;16:15;19:7,22;29:9, 10,11,12,13,15,17,18,25,25; 30:13,24;31:7,20;32:5;33:4, 14;36:25;38:3;44:1,10,10,11, 13,19,21,22,24,24;45:2,15; 46:9;48:15;50:20,21,23; 51:5,25;52:15;53:5,7,11,15, 16,21;54:2,5,11,16,18,19,21; 55:4,18,22;56:1,10,14,16; 58:12,25;59:2,9;60:18; 61:19;62:21;63:25;65:19,20, 21;66:1,6;67:1,12;68:25; 69:17;70:2,10,15,23,24;71:7, 11,20;72:1;75:11,14,19;76:8, 20,21;77:18;79:1,13,18; 83:23;86:20;87:9;91:18,25; 92:1,1,21;93:10,17;94:11; 101:2,4;102:13,17,24;103:1, 3,4,10,14;104:23,24;105:5, 12,14,15,24;106:13,13; 108:4,5,10;109:12;110:1,20; 111:24;114:13,21,22,24; 115:2,4;116:4,6,10;117:12, 15;118:7;119:13;120:4,5,12, 13,15,17;121:3,10,13,15,21, 25;122:14;123:1;125:17,19, 21;126:4;128:19,19;130:18, 22,25;131:6,12,21;132:2,12, 12,22;133:5;135:3,9,15; 138:12;139:11,11,24;141:2, 17;142:9,13;143:1,4,7,20; 144:7,7,8,16,18,21,23,24; 145:8,13,16,17,18,20,24; 146:2,3,7;147:11,15,16,22, 25;149:4,10,17,19;150:1,3, 18,20;151:3,4;153:24; 154:10,11,14,16,21,22,24; 155:12;157:22;158:7,11,16; 162:20:164:12,17:167:15, 18;168:14;169:1;170:11; 173:3,11,12,14,17;175:19, 21,25;176:1,4,12;180:8,10, 11;183:2,5,8,12,15,25;190:2, 3;194:17,19;195:1,5,6;196:1, 5;200:25;201:11;202:4; 220:24;221:18,23;222:13, 22;223:3,11,17;224:20,25; 225:17;226:6,18,21;227:22; 228:8;229:6,9;233:7,7,24; 234:5,6;247:25;250:19; 251:13;252:3;256:4,12,22; 257:5,10;258:11,12;259:12; 260:22;267:21;272:3,7,11; 273:3,8,8;277:11;278:7,20, 23;279:6,7,11,17;281:4,5,7, 9;287:6;293:12;295:10; 305:19;314:15,17,19,22,25; 315:6,7;316:15,22;318:11; 320:19;322:3;323:6,9;328:5; 341:17;346:15,19;347:13; 348:2,15;350:19,24;358:24; 379:18:393:23:401:17.18: 402:7,20;405:6;407:18,22; 408:6

diversions (44)

31:1;48:2;53:24;57:17; 61:3,13;64:19;78:16,18; 91:14,15;94:3,4,10;99:13; 110:5;116:22;125:8;127:3; 129:3;142:22;150:16; 175:17;201:24,25;214:25; 232:16,20;233:1;234:25; 235:2,19,24;238:13,25; 246:4;248:10;249:23; 267:24;268:3,25;269:4; 279:24,25

diversion's (3)

58:23,24;125:24

divert (22)

30:20;53:17;57:19;60:19; 61:3,19;75:7,10;77:10;78:3, 5;87:25;102:6;113:7;114:15; 222:14;224:20;313:14; 322:2;336:20;363:16;408:7

diverted (16)

29:7;30:9,25;50:20;65:21; 104:25;109:5;110:24;118:7; 126:12,12;224:24;297:12; 361:24;372:21;387:14

diverting (6)

51:2;64:9;76:22;86:8; 227:20:347:15

diverts (1)

114:12

Divide (17)

300:20;317:10;325:21; 368:11;386:3,8,12,16,16,17, 19,22;387:1,7,13,15,16

division (1)

222:2

dizzv (1)

351:16

doable (1)

132:15

document (14)

14:24;33:20,21;103:23; 105:9;194:22;195:16; 197:24;204:18;208:11; 210:19;334:24;382:23; 383:11

documentation (1)

18:25

documented (4)

113:15;178:16;213:22; 256:1

documents (7)

9:12;12:12,13;20:2;66:13; 333:12,16

dogs (1)

380:3

domestic (3)

101:7;111:7;135:4

done (24)

17:16;72:15,16;80:11; 85:3;141:24;159:3,6;178:8; 181:18;244:10;248:8;249:2; 256:25;257:2;258:19; 260:19;267:23;268:1; 311:16;342:4;374:18;381:2; 408:18

Dot (19)

8:11;10:14;48:14;93:4; 94:2;102:12;107:19;108:20; 117:16;265:20;266:8;272:6, 7;290:12;291:14;292:2,21; 352:3;369:6

dots (5)

79:18;91:23;116:5; 120:12;149:16

doubt (3)

159:4;317:2;379:14

down (183)

42:7;43:5;46:9;47:19; 53:12,17;54:11,25;55:23; 64:15,18;71:11;76:2,18; 77:17,20;79:21;80:17,21; 82:24;83:7;89:13;94:12; 113:20;135:2,7;137:6;139:2, 5;144:17;155:21;161:5; 165:23;166:10;168:2; 173:25;176:2,10;183:4; 192:21;196:24;201:7; 204:24;226:14;230:5,22; 231:16;245:9,10;247:6,24; 249:17;251:3,8;252:13; 270:6;271:7,9,24;272:3,4,13, 17;274:17,17;275:14;276:7, 9;277:6,10;278:15;279:10, 13,21;280:13,23;281:3,18, 24;282:20,22;284:11;286:3, 5;287:5;289:2,12;296:10; 297:5;298:1;301:24;302:2,7, 16;303:14,22;304:3;305:4, 11,14;307:18,20;308:3,23; 310:11;311:7,7,17,19,22; 313:6,11;314:11,13,14,25; 315:10;316:9,9,22;317:23; 321:1;322:22,23,25;325:6, 20;329:20;331:10,12; 340:25;342:6,8;343:12,21; 345:23;350:21;353:19; 354:5,11,13,24;355:25; 356:10,18,20;357:12,15; 358:15,24,25;360:15,24; 361:9;362:20;365:6;366:16; 368:2,8;372:7;374:14,23; 375:11,13,13;376:2,4; 385:14,15,20;386:25;393:6;

10,13 downfall (1) 129:6

downgradient (2) 30:6;276:15

394:17;396:20;397:14;

402:20,20;405:7,7,7;408:5,

331:2;332:22;333:2;336:12,

12,19,22;338:13;339:6,13;

downhill (1)	302:4,4,10	303:11;311:12;372:6,14	18,21,22;357:16,18,20,23
324:21	drought (1)	easel (1)	elevations (2)
downpour (1)	76:10	101:23	354:24;389:2
345:22	droughts (1)	easement (1)	else (22)
downstream (83)	153:3	17:20	59:5;73:14;90:4;126:1;
30:3;44:17;78:16;87:13,	drove (1)	easier (2)	138:23;171:24;182:20;
15;91:14;103:19;110:5;	308:8	193:10;205:5	183:23;186:12;220:19;
118:8;120:7,11,14;121:5,12,	dry (5)	east (38)	249:11;265:2,9;272:15;
21;122:9;123:11;125:16;	76:22;375:23;376:23;	46:15;118:19;120:25;	275:25;289:22;351:8,10;
131:6,18,23,25;132:1,23;	377:4;378:13	121:1;125:4;141:18;150:2,	367:20;368:13;385:9;404:18
133:5;135:7,8,14;137:17,19,	dug (12)	23;165:10;166:9;215:25;	elsewhere (1)
20,21,21;138:6,16;139:15;	216:24;275:9;284:17;	239:8,14,16;254:20,23;	151:21
141:4,15,25;143:19;144:6, 11;146:3;153:25;154:3;	288:9;297:18,21;315:3;	260:9;261:6,10;263:21; 298:21,23,23;299:20;300:17,	e-mail (13) 18:21;21:19,20;31:22;
167:19;168:25;170:6,12,23,	327:1;373:7;377:3;378:13; 398:15	23;306:13;311:8;325:22;	208:15;212:1,4,17,22;243:4;
25;171:3,7,24;172:7;173:3,4,	duly (7)	329:22;344:1;350:9;366:6;	257:8;260:4;271:22
13;175:20;176:7;179:21;	26:3;96:21;190:23;266:8;	372:21;373:7;390:11;399:8,	e-mails (1)
181:11,14,21;182:6,10;	290:12;352:3;369:6	13	18:20
183:14,18;196:12;203:25;	duly-appointed (1)	Eastern (2)	Emelda (1)
219:12;226:4,11,17;228:9,	241:4	7:4;192:4	390:2
12;233:17;271:6;278:23;	dump (2)	easy (6)	employ (1)
330:18;346:19;350:10;359:1	54:25;305:17	160:6,9,20;230:15;251:23;	20:16
dozen (1)	during (29)	401:23	employed (4)
99:20	7:15;23:2,9;49:6,12;73:4;	eat (1)	97:9;99:8;191:17,18
drain (2)	75:6;77:8,9,19;86:24;95:20;	369:2	employee (1)
224:4,4	99:6;141:25;160:8,20;	edge (2)	241:5
drainage (28)	195:19;222:23;243:5;	302:3,4	empty (1)
19:24;27:13;41:18;42:1;	255:17;304:8;306:12;	effect (5)	236:17
44:5;59:5;63:16;67:9;71:5;	312:18;313:22;372:20;	196:22;304:1;318:14,16;	encompass (1)
91:1;110:9;194:1,5;202:3,	385:3,16;394:20,22	336:24	192:20
25;203:3;227:4;231:3;252:2;	duties (2)	effective (1)	encumbrance (1)
267:25;292:22;307:11;	193:12;264:21	299:2	35:14
310:9;325:23;330:18;339:7;	dye (1)	effectively (3)	end (9)
386:20;401:7	346:13	22:12;196:13;406:13	23:20,21,25;91:18;216:18;
drainages (4)	dynamic (1)	efficiency (1)	218:14;304:2;307:12;408:19
drainages (4) 196:16;371:2,3;401:9	dynamic (1) 231:25	efficiency (1) 49:4	218:14;304:2;307:12;408:19 ended (4)
drainages (4) 196:16;371:2,3;401:9 drastically (1)	dynamic (1) 231:25 dynamics (1)	efficiency (1) 49:4 efficient (2)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2;
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1	dynamic (1) 231:25	efficiency (1) 49:4 efficient (2) 29:2;317:17	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1)	dynamic (1) 231:25 dynamics (1) 258:16	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17	dynamic (1) 231:25 dynamics (1)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19;
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2)	dynamic (1) 231:25 dynamics (1) 258:16	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22;
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21;	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20;	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14;	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9;
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2) 321:6,12	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14;
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2) 321:6,12 drive (2)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3 ears (1)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18 elects (1)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14; 177:24;178:7;263:6;347:11;
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2) 321:6,12 drive (2) 59:4;391:2	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3 ears (1) 209:15	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18 elects (1) 59:21	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14; 177:24;178:7;263:6;347:11; 371:19;389:6;395:4
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2) 321:6,12 drive (2) 59:4;391:2 driving (1)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3 ears (1) 209:15 Earth (11)	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18 elects (1) 59:21 elements (1)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14; 177:24;178:7;263:6;347:11; 371:19;389:6;395:4 English (2)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2) 321:6,12 drive (2) 59:4;391:2 driving (1) 280:22	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3 ears (1) 209:15 Earth (11) 39:16;40:9;82:1,14;84:15;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18 elects (1) 59:21 elements (1) 128:3	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14; 177:24;178:7;263:6;347:11; 371:19;389:6;395:4 English (2) 308:2;336:15
drainages (4)	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3 ears (1) 209:15 Earth (11) 39:16;40:9;82:1,14;84:15; 179:19;221:9;295:1;319:22;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18 elects (1) 59:21 elements (1) 128:3 elevation (16)	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14; 177:24;178:7;263:6;347:11; 371:19;389:6;395:4 English (2) 308:2;336:15 enlarge (2)
drainages (4) 196:16;371:2,3;401:9 drastically (1) 281:1 draw (1) 111:17 drawing (2) 122:10;149:7 drawn (8) 116:25;117:2;177:21; 200:21,22;253:4,5;349:2 dream (1) 372:23 drew (7) 119:22;149:11;178:18,20; 179:15;253:1,18 drier (1) 317:12 dries (2) 77:16;78:22 drilled (2) 321:6,12 drive (2) 59:4;391:2 driving (1) 280:22	dynamic (1) 231:25 dynamics (1) 258:16 E ear (1) 314:21 earlier (21) 43:10;53:6;101:3;109:11; 113:2;115:20;116:20; 117:18;119:4;128:22; 141:16;142:20;145:25; 182:16;259:3;313:23;342:5; 350:13,13;362:7;371:8 earliest (1) 159:20 early (10) 63:25;64:6;69:11;87:2,5; 99:2;221:11;227:3;399:23; 403:3 ears (1) 209:15 Earth (11) 39:16;40:9;82:1,14;84:15;	efficiency (1) 49:4 efficient (2) 29:2;317:17 eight (18) 19:2;27:12;110:9,12,24; 111:1,3;124:22;125:6; 126:10,15;266:22;267:7; 268:16;292:22;300:21; 317:13;344:22 either (16) 15:5;63:9;88:1;126:8; 142:22;149:8;168:12; 206:23;210:4;226:11;259:9; 308:19;341:2;372:14; 381:10;394:17 elect (2) 193:4;235:7 elected (1) 241:9 electric (1) 301:18 elects (1) 59:21 elements (1) 128:3	218:14;304:2;307:12;408:19 ended (4) 90:13;238:18;275:2; 276:10 ends (8) 325:15;328:9;329:19; 386:12,24;387:1,3,12 enforce (5) 13:15;17:19;18:17,22; 247:9 enforceable (1) 256:14 enforces (1) 13:25 engineer (8) 152:5;385:5;389:24;390:6, 7;395:23;396:2;397:25 Engineering (4) 97:10,13;99:17;397:24 engineer's (14) 120:19;121:2,17;122:9; 142:21;162:24;165:14; 177:24;178:7;263:6;347:11; 371:19;389:6;395:4 English (2) 308:2;336:15

128:18	283:19;370:23	174:14;181:23;377:16	65:5,9;72:19;79:11,17;
enormously (1)	estimates (1)	exactly (9)	83:16,17;97:17;100:5,19;
395:12	151:22	139:1;149:9;161:9;	101:21;102:13;103:7,22;
enough (24)	estimation (4)	195:10;240:14;245:4;248:7;	104:1;105:7,8,18;106:2,3,4,
53:22;54:6;55:3,22,25;	15:1;16:19;147:1,4	252:7;405:21	10;107:15;127:17,18,20;
56:4;93:23;108:16;113:10;	evaluate (2)	Examination (25)	132:17;134:3;140:11,13,14;
149:3;155:8;218:23;229:24; 236:5;246:22;251:6;301:9,	157:11;228:16 evaluating (2)	5:6,9,10,14,17,20,23;	150:12;174:2,2,2,20,20;
19;308:1,1;309:8;371:16,16;	20:18,18	26:12,15;75:4;82:12;97:4; 153:13;177:13;191:7;	178:1,7,18;184:14;194:9,20; 195:3,15;197:7,20;200:16;
378:11	evaluation (2)	262:14;266:17;282:17;	203:10;205:19,23;206:19,
enter (1)	167:11;307:4	285:1;291:7;347:8;352:13;	20;208:6,22;209:3,4,11,12,
255:3	even (44)	367:7;369:16;400:16	13,14,18,19;210:7;211:7,10,
enters (1)	15:18,20;16:3;20:12;	examine (2)	15,25;212:12;220:21,23;
252:10	37:18;69:3;78:4;83:14;	130:18;220:22	231:6;234:23;250:14,16;
entire (5)	102:5;150:24;152:16;155:8,	examined (1)	255:11;260:4;271:12;
87:25;223:25;292:9;	14;158:12;160:12;162:10,	151:16	295:14,15;296:12;299:16;
304:7;332:5	18;183:13,14;201:2,2,3;	examining (1)	334:8,14,16,21;337:12;
entirely (1)	202:15;203:21;215:11;	151:11	340:14;341:7;359:16;
75:10	221:1;226:14;239:9;244:10;	example (9)	362:12;363:10,23;364:5;
entirety (1)	245:18;246:12,16;257:15,	19:6;122:23;146:15,20;	382:11,13,15;383:20;385:2;
214:19	25;269:3;273:20;278:23;	147:22;152:3,14;153:1;	387:25;390:4;393:15;395:2;
entitled (6)	281:6;306:20;312:6;320:2;	227:10	399:1
57:19;170:8;226:19;245:1,	344:5;346:8;384:14	excavation (1)	exhibits (23)
2;385:23	evening (1)	356:25	9:17,18,19,20,21,25;10:3,
entity (1)	315:9	exceeds (1)	8,15;11:24;12:15;19:21;
291:13	event (2) 154:1,2	77:22	20:3,12,23;21:1;24:17; 61:24;72:12,18;106:9;340:9;
enumerated (1) 36:8	events (5)	Excellent (1) 25:15	382:12
equally (1)	76:15;245:4;259:19,24;	except (8)	exist (2)
171:8	358:9	53:20;134:14;135:6;	327:19;343:25
equipment (4)	eventually (4)	136:1;144:25;173:9,13;	existed (4)
7:11,19;294:14;378:10	59:20;192:20;329:13;	219:9	37:18;38:14;273:21;404:4
Ericsson (26)	374:21	exception (2)	existence (5)
8:25;21:23;22:9;23:1,23;	Everson (37)	305:2;402:6	69:3,4;200:20;223:11;
107:18,21;109:15,16,20,23;	42:13,15,21;43:21;64:10,	exceptions (3)	341:1
112:19;122:22;124:2;136:1;	12;110:3;111:9;119:5;	36:7,9,10	existing (7)
185:1,17;187:2,6;188:2;	133:21;136:15,17,19;137:8,	excess (3)	87:24;132:21;133:4;
270:4,10,14;280:4;298:1;	10,11,12,25;144:9,17;	297:4,5;303:13	192:25;235:2,18,19
350:14	145:22;172:19;179:6;	excited (1)	expansion (1)
Ericssons (2)	187:19,21,25;194:7;224:12;	314:12	192:23
40:21;120:6	225:7,12,19,24;230:5;277:3;	exclude (1)	expect (6)
Ericsson's (7)	280:11,12,15	10:7	123:11;126:14;129:8;
40:20;110:1,6;135:18;	everybody (7)	excluded (1)	147:13;236:1,2
184:14;224:21;296:3	41:5;81:8;102:4;217:25;	10:10	expectation (1)
erodable (1) 316:2	331:1;339:3;369:22 everybody's (3)	exclusion (1) 10:12	157:11 expectations (1)
erosion (2)	48:24;196:16;248:16	exclusive (1)	157:12
150:7;152:10	everyone (1)	213:13	expected (4)
error (10)	196:3	exclusively (2)	128:3;213:19,21;249:17
12:22;104:23;161:16,19;	evidence (28)	56:13,16	expensive (1)
210:9,10,12,18,21;333:23	7:21;11:6;17:7;18:4,6;	excuse (3)	318:22
especially (2)	20:9,18,19;21:4;24:7;65:17;	175:18;177:21;293:25	experience (13)
377:5;395:13	104:22;125:23;143:6,17;	exercise (1)	20:17;29:2;56:5,8;97:20;
essentially (4)	152:19;165:12;177:15;	228:18	129:17;147:5,19;161:15;
113:7;315:5;317:10;342:6	178:16;189:15;221:20,22;	exercised (1)	169:14;183:19;210:17;
establish (5)	239:3;247:17;248:8;252:1,4,	127:13	358:10
45:1;50:24;51:1,2;127:14	5	Exhibit (145)	experienced (1)
established (1)	evidenced (1)	10:7;12:20;14:24;15:14,	50:1
192:17	220:25	15;16:8,8,9,11;18:20;31:12,	experiencing (1)
estate (1)	evidently (2)	13,14,19,24;32:3,6,7,15,19,	55:3
85:17	66:4;251:5	22;33:17,18,21;35:7,9,13,17,	expert (20)
estimate (6) 57:25;114:14,16;147:9;	exact (6) 116:20;148:5;149:4;	18;36:6,24;37:5;50:4,14,14, 18;51:23;52:9;55:6,10,20;	11:23,23,25,25;12:16; 14:25;19:14;25:5,13;34:10;
		1 X 3 1 1 / 3 3 / W 3 3 16 111 ///	1/1:/5:19:1/1:/5:5 13:3/1:1():

64:24;67:11;72:14;97:23; 98:4,17,19;156:15;169:17; 273:10 experts (1) 11:22 explain (27) 13:1;29:6;32:2;34:18; 36:19;98:24;100:20;102:6; 103:8;105:9;109:1;114:10; 118:25;121:6;122:17; 123:21;124:14;126:17; 127:23;150:14;231:13; 238:11;253:8;273:17; 344:14;370:13;398:18 explained (9) 15:23;30:19,21;85:5;89:8; 270:7;307:14;311:24;395:2 explaining (6) 30:8;104:4;105:12; 355:24;356:3;395:24 explains (1) 334:4 explanation (4) 16:3;112:13;157:6;328:4 explanations (1) 66:23 exposed (1) 327:3 express (2) 15:3,6 extent (6) 96:8;226:20;227:18; 228:2:240:16:242:25 extenuating (1) 203:1 extinction (1) 336:9 Extremely (2) 294:21;332:12 eveball (1) 279:18 eyes (2)

163:25;233:22 F face (14) 14:2;36:19;113:12,16; 123:21;183:25;200:8,9; 206:12;211:22;214:1;254:3; 263:24;312:3 facing (1) 345:17 fact (21) 9:1;20:15;87:16;134:7; 140:1;141:6,6;143:17;144:5; 149:19;204:8;213:23;216:1; 231:19;233:23;234:15; 238:12;239:4;246:2;367:13; 378:24 factors (2) 228:16;255:2 facts (1)

16:13
fail (1)
296:14
fair (9)
47:24;108:16;157:12;
179:2;220:20;260:2;294:20;
304:24;333:18
*
fairly (7)
102:24;119:19;126:12,20;
127:2;160:8;373:14
fall (4)
74:2,7;269:11;389:4
falls (1)
185:24
familiar (67)
17:12;20:11;36:15,18;
49:21;58:10;78:15,25;92:3,
12;93:17,19;94:10,12;98:21;
99:6,12,21;133:20;152:12;
156:21;174:8,23;193:25;
194:3,10,22,23;198:9;212:1,
3,4,10;267:20;268:17,20;
285:7;287:10;292:6,10,13,
15;293:7,11;294:11,19;
309:11,13,14;312:22;
350:23;352:24;354:17,18;
362:8;365:16;367:18,22;
370:9,13;374:20,24;375:18,
19;401:6;403:16;404:15
familiarity (2)
98:25;219:24
familiarize (2)
60:9;267:23
familiarized (1)
65:1
family (5)
60:4;293:4;353:10;396:3;
408:15
fans (5)
fans (5) 297:24,24;323:18;350:1,3
fans (5) 297:24,24;323:18;350:1,3
fans (5) 297:24,24;323:18;350:1,3 far (29)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20;
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1) 140:15
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1) 140:15 fast (3)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1) 140:15
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1) 140:15 fast (3) 113:24;306:24;371:6
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1) 140:15 fast (3) 113:24;306:24;371:6 faster (2)
fans (5) 297:24,24;323:18;350:1,3 far (29) 19:2;39:23;42:11;48:12; 59:9;77:2;79:21;90:22; 102:17;178:20;180:15; 181:14,25;183:11;185:13; 217:5;224:23;234:10;279:1; 305:2;339:15,16;344:20; 354:11;368:4;371:13; 373:23;380:9;408:11 farm (3) 292:3;375:23;376:23 farmed (1) 373:3 farmer (1) 291:21 farther (4) 42:23;46:25;80:14,14 fascinating (1) 140:15 fast (3) 113:24;306:24;371:6

```
father (11)
  335:11:353:7:355:4,7;
  370:2;372:3,8,10;373:4;
  376:6:385:4
fault (1)
  306:5
features (5)
  295:3;304:12;312:17;
  373:13,15
federal (1)
  148:16
fee (10)
  35:24;36:8;106:19,20,22,
  23,25;107:6,8,10
feeding (3)
  114:22;150:15;219:8
feel (7)
  23:22;41:6;235:23;236:8;
  292:16,16;336:17
Feels (1)
  364:3
feet (24)
  77:3;106:24;114:23,25;
  118:8;149:18;150:2,23;
  180:17,17,17,18,18,19,19,23;
  283:25,25;284:1;317:19;
  356:22;357:24;387:21;389:5
felt (10)
  201:15,25;202:1;256:5,6;
  259:10;309:5;336:21;
  337:20,20
fence (9)
  297:15:298:1.9:299:8.12:
  343:22:345:2,6,6
few (3)
  37:13;215:12;309:8
field (17)
  7:8;55:23;118:2,20;
  125:25;130:18;131:10;
  146:17;147:14,25;149:22;
  152:6;164:9;169:23;191:22;
  220:14:255:25
fields (4)
  52:20,24;54:11;358:3
figure (27)
  40:4;115:1,17;116:4,14,
  14,24;117:4,4,7;119:2;120:2,
  2;121:7;122:1;140:19;
  148:19,20,25;149:5,14,15;
  190:4,8;227:19;233:25;
  383:9
figured (4)
  235:14;271:4;275:21;
  308:5
figures (4)
  115:3,15;130:20,21
file (13)
  7:2;9:6;61:18;62:1,8;68:5,
  10;120:17;259:11;312:10;
  337:24;406:11;408:19
filed (30)
  7:22;10:6;11:1,1,18,19;
  12:3,21,24;13:6;19:8,20;
```

```
33:25;34:4,15;36:23;67:13,
  21;68:8;103:12;106:10;
  107:8,18;112:9;124:23;
  209:20;264:9;291:17;335:6;
  384:18
files (2)
  9:11:33:19
filing (3)
  85:22;88:9;108:3
fill (4)
  11:12:196:21:301:9,10
filled (6)
  72:7;309:8;310:20,20,20;
  404:9
filling (1)
  398:24
fills (1)
  398:20
final (5)
  25:7;201:12;207:9;
  254:23;264:4
finally (1)
  271:3
find (16)
  12:2,14,18;19:21;20:14;
  59:15;112:8,16;197:21;
  327:2,2,9;365:15;382:23;
  383:11;384:2
finding (1)
  358:8
findings (6)
  109:1;114:10;118:25;
  122:17;124:14;126:18
fine (18)
  21:7;41:7;82:9;90:7;
  96:10:160:14,17;243:11;
  257:24;263:18;321:18;
  348:12;364:2;383:14;
  398:20;407:6,13,21
finger (2)
  41:12;253:10
finished (1)
  192:22
fired (1)
  267:12
first (48)
  19:2;25:3;27:24;31:16;
  33:1;49:21;57:15;63:21;
  72:22;87:16;88:13;95:20;
  99:5;101:17;109:3,20;
  110:15;113:9;130:17;
  146:24;154:25;158:4;173:8;
  176:3;189:21;195:24;
  213:24;216:5;217:15;
  218:18;220:12,23;222:20;
  245:24;246:15;255:15,22;
  260:4;262:24;265:18;
  267:18;268:24;273:1;
  290:23;307:9;377:25;
  399:16,19
firsthand (1)
  223:5
fish (3)
```

50:7,8;161:20	209:21;349:8,18;365:24,	393:15;396:12;408:4,5	f's (1)
fisheries (1)	25;366:1;368:9;370:2;	Forks (6)	58:6
99:4	385:12;386:25;387:5,6;	121:1,5,20,24;122:4;	full (9)
fit (2)	388:10,23	362:21	126:23;127:13;192:2;
261:21;378:10	fluctuate (1)	form (8)	316:3;352:15;374:8;379:24;
five (2)	76:15	157:16;177:16;210:24,25;	393:7;400:8
21:20;67:19	flume (1)	227:6;263:13;333:24;336:3	fully (1)
five-minute (1)	372:15	format (1)	334:6
176:24	focuses (2)	198:13	fun (4)
fixed (2)	15:1;225:15	formed (1)	136:8;148:17;178:9;
309:1,6	focusing (1) 16:20	121:23	366:25
flat (1) 306:23	folks (2)	formula (1) 261:21	funny (2) 342:12,14
flip (3)	28:3;146:16	formulas (2)	Further (48)
199:4;335:23;336:2	follow (6)	261:22,25	30:6;44:21;47:1;59:4;
flock (1)	33:9;181:2;185:5;277:2;	forth (7)	74:25;94:12;95:2;103:15,19;
315:18	321:5;387:6	74:19;229:23;246:12;	118:11;120:11,14;131:13;
flood (9)	followed (3)	275:19;282:5,6;292:18	135:7,14;137:17;139:14;
28:13,15;45:21;151:22,23,	300:24;330:19;361:8	fortunately (1)	183:13,14;184:5;189:2;
23;302:15;375:2,5	following (3)	376:14	190:9;201:7;215:3;219:15;
flooding (1)	9:17;31:23;115:3	forward (11)	226:4;262:6;264:16;265:10;
259:24	follows (9)	13:11;72:5;96:3;108:14,	270:17;273:22;276:9;
flood-irrigate (4)	26:3;96:21;190:23;266:9;	24;129:18;182:17;214:6;	277:15;278:23;281:7;
300:14,16,25;301:25	290:13;349:13;352:4;	251:16;256:11;338:24	313:11;319:3;339:7,24;
flood-irrigated (1)	360:15;369:7	forwarded (1)	353:19;355:12;361:12;
299:3	follow-up (6)	212:16	367:3;375:13;381:11;398:4;
flood-irrigating (1)	81:23;89:25;177:8;351:9;	Foster (25)	400:14;405:4
375:9	404:19,22	8:18,20;56:24,25;110:5;	furthest (1)
floodwater (1)	foot (1)	111:23;112:7;122:22;124:2;	164:11
307:22	356:23	156:4,5;189:7,8;233:7;	futile (21)
floodwaters (1)	footage (1)	239:22,23;282:15;398:5,7;	182:13;203:2,2,20,21,22;
259:24	324:24	403:17,22,23;405:7;407:11,	204:16,18,23;205:12;227:6;
	0 4 4 (4)	1.0	
flow (61)	footprint (1)	16	228:25;231:10;251:1;258:6;
12:11;15:17;16:4;42:4;	74:24	Foster's (2)	314:10;315:12;337:4,8,8,19
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19;	74:24 forced (2)	Foster's (2) 120:5;298:25	314:10;315:12;337:4,8,8,19 future (5)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1;	74:24 forced (2) 342:8;347:21	Foster's (2) 120:5;298:25 found (7)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12;
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5;	74:24 forced (2) 342:8;347:21 foremost (1)	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21;	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1)	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4)	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3)	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1)	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17,	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70)	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9)	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33)	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18,	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9; 141:19;144:15,16;151:10,13,	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6; 217:8;219:2;224:22;249:16;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20 Friday (2)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20 gauging (1)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9; 141:19;144:15,16;151:10,13, 17,22;152:2,7,8,9,13,14,16,	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6; 217:8;219:2;224:22;249:16; 274:24;275:12;300:23,23;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20 Friday (2) 33:6;314:6	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20 gauging (1) 99:17
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9; 141:19;144:15,16;151:10,13, 17,22;152:2,7,8,9,13,14,16, 20,25,25;153:2,7;187:15;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6; 217:8;219:2;224:22;249:16; 274:24;275:12;300:23,23; 311:20;325:23;330:20;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20 Friday (2) 33:6;314:6 front (14)	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20 gauging (1) 99:17 gave (3)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9; 141:19;144:15,16;151:10,13, 17,22;152:2,7,8,9,13,14,16, 20,25,25;153:2,7;187:15; 220:18;250:18;251:12;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6; 217:8;219:2;224:22;249:16; 274:24;275:12;300:23,23; 311:20;325:23;330:20; 331:6;349:7;360:10,16;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20 Friday (2) 33:6;314:6 front (14) 31:12;40:2;75:23;100:5;	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20 gauging (1) 99:17 gave (3) 13:13;66:21;204:12
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9; 141:19;144:15,16;151:10,13, 17,22;152:2,7,8,9,13,14,16, 20,25,25;153:2,7;187:15; 220:18;250:18;251:12; 255:3;260:9;262:23;281:12;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6; 217:8;219:2;224:22;249:16; 274:24;275:12;300:23,23; 311:20;325:23;330:20; 331:6;349:7;360:10,16; 361:4;362:19,19,20;363:9,	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20 Friday (2) 33:6;314:6 front (14) 31:12;40:2;75:23;100:5; 106:5;179:1;251:15;271:11;	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20 gauging (1) 99:17 gave (3) 13:13;66:21;204:12 general (15)
12:11;15:17;16:4;42:4; 49:25;55:3,22;76:2,19; 77:22;78:8;79:5;107:1; 123:11;141:25;144:2;146:5; 150:6;152:11,17;153:5; 165:8;166:10;173:18; 175:19;185:8,24;187:4; 205:10;216:11,24;217:8; 218:23;226:24;231:7,20; 232:2,3,4;234:9;239:1,4; 254:20,21;258:4;276:11; 278:12;297:6;301:14; 307:19;316:5,9;324:20; 336:10;344:10;345:13,17, 22;346:1;386:19;408:10 flowing (9) 51:18;138:23;139:2; 151:4;217:19;218:16; 226:18;261:23;398:24 flown (1) 176:6 flows (33) 16:3;42:5;52:19;78:9; 141:19;144:15,16;151:10,13, 17,22;152:2,7,8,9,13,14,16, 20,25,25;153:2,7;187:15; 220:18;250:18;251:12;	74:24 forced (2) 342:8;347:21 foremost (1) 246:15 Forest (1) 8:4 forever (4) 215:15;283:9;289:15; 294:4 forget (3) 40:19;171:14;207:10 forgot (1) 97:15 Fork (70) 39:13,14;41:25;42:5,17; 43:14,21;44:2;77:21,22; 90:20;91:4,6;109:17;110:2; 119:6,11,12;120:8;121:10, 11;135:20;139:3;168:5; 172:10,18;179:5;181:10; 185:24;186:17;187:15,18, 22;188:24;192:21;194:6; 217:8;219:2;224:22;249:16; 274:24;275:12;300:23,23; 311:20;325:23;330:20; 331:6;349:7;360:10,16;	Foster's (2) 120:5;298:25 found (7) 16:12;18:9;24:15;120:21; 245:11;313:3;315:11 foundation (3) 20:4;25:12;114:3 four (3) 43:7;181:14,16 fourth (3) 36:6;37:6;150:12 four-wheeler (1) 280:22 frame (1) 381:22 framed (4) 247:3,3,4,8 frankly (1) 93:12 free (3) 24:4;41:6;261:23 frequently (2) 63:12;147:20 Friday (2) 33:6;314:6 front (14) 31:12;40:2;75:23;100:5;	314:10;315:12;337:4,8,8,19 future (5) 96:8;129:18,22;173:12; 238:1 fuzzy (1) 340:12 G gain (1) 168:14 gaining (1) 168:19 Galena (1) 192:21 Garrick (2) 18:21;212:19 gather (2) 86:3;187:18 gathered (2) 298:3,17 gauges (1) 99:20 gauging (1) 99:17 gave (3) 13:13;66:21;204:12

212:18;214:2,20;221:5;	Good (42)	328:2;369:1;383:23;392:4;	hand (7)
251:14;297:25;310:6	7:3;15:15;40:16,23;41:13;	400:3	55:6;79:15;117:2;302:5;
generally (10)	82:8;93:23;114:5;122:11;	greater (1)	309:8;327:1;349:2
101:1;221:17;223:15;	130:9;133:1;162:7;163:8;	343:15	hand-drawn (1)
292:10,20;293:7;295:4;	189:6,8;209:15;239:23;	green (20)	159:6
370:9;373:12,15	248:24;267:16;277:18;	79:18;116:5;117:16;	handed (3)
Geological (1)	279:4;282:15;290:3,25;	120:12;149:16;207:3,5,7,8,	50:14;55:10;59:17
162:6	291:2,2,5;307:25;308:1;	21;208:4,8;292:20;315:3;	handholding (1)
geo-referenced (1)	313:6,7;317:17;321:18;	332:21;382:1,2,4,20;383:2	193:9
117:11	330:13;351:17;360:1,5;	grew (3)	handle (2)
Gerald (2)	364:3;368:19;376:13,24;	180:23;362:9;374:17	68:22;244:16
293:21;303:5	398:7	ground (13)	hands (1)
gesturing (1)	Google (16)	17:17;87:22,25;118:16;	240:12
253:10	39:16;40:9,12;49:16;	148:7;158:23;164:16;	handwritten (2)
gets (20)	81:25;82:14;84:14;132:14;	179:18;260:18;292:3;	37:25;38:3
79:12;92:8;154:2;202:21;	133:14,15;160:23;221:9;	327:20;339:11;395:11	Hang (2)
224:8;225:3;230:23;247:2;	295:1;319:22;320:5;324:23	grounds (1)	257:18;315:21
280:5,5;283:18;297:25,25;	gosh (1)	169:5	happen (7)
298:3,15,16;311:17;323:19;	249:3	ground-truthing (4)	152:11;162:25;204:1,3;
343:15;389:7	gotcha (1)	159:13,15,17,25	231:17;258:14;378:2
giant (2)	334:15	groundwater (1)	happened (18)
311:11,11	GPS (6)	135:25	16:2;45:10;63:3;89:12;
gigantic (1)	147:11;149:16;249:21,22,	group (2)	128:24;131:15;137:3;
358:2	25;315:20	89:24;99:9	154:19;167:8;229:25;245:6;
Gilmore (1)	GPS'd (7)	grow (1)	247:18;308:10;331:24;
291:11	81:9;116:3,6,17;121:3;	231:18	392:17;395:19;404:6,7
GIS (5)	139:20;140:5	growing (3)	happening (5)
116:19;164:4;292:18;	grab (1)	310:7;353:16;354:3	106:1;139:1;146:18;
319:18;321:3	295:13	grown (1)	204:6;297:23
given (9)	grade (8)	345:7	happens (7)
23:10,10;68:10;174:21;	305:12;306:23,23;324:18;	guess (19)	50:9;54:23;78:6,8;204:4;
203:4;213:12,12;235:14;	330:5;357:1,1,9	12:25;23:16,20;79:22;	215:17;225:1
331:15	grading (1)	86:4;88:13;155:3;256:5;	happy (4)
giving (2)	129:11	267:12,17;274:24;276:14;	52:8;89:21;114:3;208:9
18:2;149:1	graduate (1)	306:5;349:19;350:1;360:6;	hard (13)
Glaciers (1)	353:4	380:19;396:6;397:23	123:10;148:24;149:2;
324:13	graduated (3)	guessing (5)	233:2;238:21;270:13;283:6;
glad (2)	353:3;359:6,25	52:12;53:9,10;69:6;301:17	321:5;332:16;364:23;375:7;
401:22;408:1	Grady (1)	guesstimate (1)	388:8;407:20
glass (1)	298:1	57:24	hardly (1)
347:24	grant (2)	guesswork (1)	308:3
Glenda (9)	133:24;144:13	385:23	TT 1 (40.4)
7.22.0.7.05.14.05.22.		363.23	Harris (184)
7:23;8:7;85:14;95:23;	granted (2)	guidance (4)	Harris (184) 5:6,10,14,20;8:13;11:5;
99:24;105:11;194:15;274:4;	granted (2) 11:13;70:22		
		guidance (4)	5:6,10,14,20;8:13;11:5;
99:24;105:11;194:15;274:4;	11:13;70:22	guidance (4) 193:9;240:12,20,21	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14	11:13;70:22 grass (1) 374:17 gravel (2)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12,
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55)	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21;	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3)	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1)	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1)	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23,	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14)	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9,
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2; 310:11,11,19;322:25;323:2,	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2) 28:11;375:22	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14) 76:17;117:4,4,6,11;	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9, 11,14;190:9;197:13,17;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2; 310:11,11,19;322:25;323:2, 15;329:3,7;330:24;345:8,10;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2) 28:11;375:22 Great (25)	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14) 76:17;117:4,4,6,11; 118:11;174:19;180:20,21;	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9, 11,14;190:9;197:13,17; 207:16,19,21,23,25;208:2,
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2; 310:11,11,19;322:25;323:2, 15;329:3,7;330:24;345:8,10; 346:18;347:3;356:3;360:11;	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2) 28:11;375:22 Great (25) 24:20,22;25:4,16;26:13;	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14) 76:17;117:4,4,6,11; 118:11;174:19;180:20,21; 279:3;293:20,20;305:13;	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9, 11,14;190:9;197:13,17; 207:16,19,21;23,25;208:2, 10,16,19,23;212:18;239:24,
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2; 310:11,11,19;322:25;323:2, 15;329:3,7;330:24;345:8,10; 346:18;347:3;356:3;360:11; 362:20;373:25;403:12	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2) 28:11;375:22 Great (25) 24:20,22;25:4,16;26:13; 81:16,20,24;82:4;98:11,20;	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14) 76:17;117:4,4,6,11; 118:11;174:19;180:20,21; 279:3;293:20,20;305:13; 393:7	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9, 11,14;190:9;197:13,17; 207:16,19,21;23,25;208:2, 10,16,19,23;212:18;239:24, 25;240:2;242:21;243:3,10,
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2; 310:11,11,19;322:25;323:2, 15;329:3,7;330:24;345:8,10; 346:18;347:3;356:3;360:11; 362:20;373:25;403:12 gold (1)	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2) 28:11;375:22 Great (25) 24:20,22;25:4,16;26:13; 81:16,20,24;82:4;98:11,20; 101:5,20;105:2;114:7;130:6;	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14) 76:17;117:4,4,6,11; 118:11;174:19;180:20,21; 279:3;293:20,20;305:13; 393:7 halfway (2)	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9, 11,14;190:9;197:13,17; 207:16,19,21;23,25;208:2, 10,16,19,23;212:18;239:24, 25;240:2;242:21;243:3,10, 14;249:6;251:5;253:24;
99:24;105:11;194:15;274:4; 319:11 glory (1) 267:14 goes (55) 16:1,2;38:9;54:18;56:2; 69:5;76:18;78:20;108:5; 126:6;158:3,25;159:19; 160:21;172:19;183:13; 185:23;199:17,19;200:19; 218:19;234:17;260:16; 272:10;276:18,19;286:3; 288:10;289:2,2;296:22,23, 24;297:5,15,24;298:2; 310:11,11,19;322:25;323:2, 15;329:3,7;330:24;345:8,10; 346:18;347:3;356:3;360:11; 362:20;373:25;403:12	11:13;70:22 grass (1) 374:17 gravel (2) 344:19;378:11 gravelly (1) 129:4 gravels (1) 327:3 gravity (2) 301:13,16 graze (1) 86:10 grazing (2) 28:11;375:22 Great (25) 24:20,22;25:4,16;26:13; 81:16,20,24;82:4;98:11,20;	guidance (4) 193:9;240:12,20,21 guide (6) 224:15;241:15;262:17,21; 263:1,8 guy (1) 86:6 guys (3) 305:1;310:14;338:22 guy's (1) 227:16 H half (14) 76:17;117:4,4,6,11; 118:11;174:19;180:20,21; 279:3;293:20,20;305:13; 393:7	5:6,10,14,20;8:13;11:5; 12:4;13:13;15:23;16:25; 17:1;21:6,7,9,14,24;29:21; 30:2,5;39:24;40:6,12,18,21, 24;45:14,17,24;47:9;48:8,12, 21;49:5,11,17;50:9;56:22; 57:1,2,5;59:14;65:15;71:25; 72:10,16;74:25;82:2,5,8,10; 85:6;86:24;88:9;90:1,2,8,11; 93:1,25;94:1,2,22,24;95:2; 98:2,6,7,9,10;117:22,25; 118:4;137:4,19;156:9,10,13; 160:17,19;161:21,23;162:3; 163:9,18;164:3;172:25; 173:2;178:10;181:7;189:9, 11,14;190:9;197:13,17; 207:16,19,21;23,25;208:2, 10,16,19,23;212:18;239:24, 25;240:2;242:21;243:3,10,

Min-U-Script®

265:17,23,25;266:18;
273:22;284:22;285:2,25;
286:24;287:15;288:4,12,18,
23;290:1,2,7;291:8,24;
295:21,23;319:3,14,18,22;
320:1,24;321:2,8;324:22;
325:1;327:13,16,21;328:14;
333:15;338:5;348:8,11;
351:6,9,14,21,22;352:14;
355:12,20;368:20,21,25;
369:17;371:24;372:1;377:7;
379:10;381:11,13;382:8,14,
19;383:19;393:18;394:2;
404:17,19
II
Harris' (2)
11:17;14:12
Harry (1)
353:8
Harry's (3)
301:20;302:1;317:11
hatch (1)
293:1
hats (2)
249:1;307:15
hay (3)
28:11,22;46:24
hayfields (1)
53:13
haying (1)
294:14
head (6)
28:23;55:3;78:12;236:11,
15;310:12
headed (6)
51:18;289:1;348:23;
350:3;393:5;403:13
headgate (29)
52:1,4,13,14;83:22;
104:25;105:16;114:23;
233:9;270:21;276:17,19;
279.7.19.20.206.7.207.10.
278:7,18,20;296:7;307:19;
308:24;321:25;323:6;
325:13;329:3;340:14,16,22;
341:5;346:6;363:16;364:21
headgates (8)
214:24;294:23;340:20;
345:24;361:20;362:3;363:3,
14
= :
heading (4)
92:3.13:154:4:397:14
92:3,13;154:4;397:14
heads (1)
heads (1) 297:7
heads (1) 297:7 headshot (1)
heads (1) 297:7 headshot (1) 140:17
heads (1) 297:7 headshot (1) 140:17
heads (1) 297:7 headshot (1) 140:17 hear (6)
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15;
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13)
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13) 21:10;34:9;35:3;70:1;
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13) 21:10;34:9;35:3;70:1;
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13) 21:10;34:9;35:3;70:1; 151:24;158:4;244:19;
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13) 21:10;34:9;35:3;70:1; 151:24;158:4;244:19; 247:16;262:16;314:16;
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13) 21:10;34:9;35:3;70:1; 151:24;158:4;244:19; 247:16;262:16;314:16; 315:24;355:20;371:8
heads (1) 297:7 headshot (1) 140:17 hear (6) 230:10;244:20,22;306:15; 327:19;354:15 heard (13) 21:10;34:9;35:3;70:1; 151:24;158:4;244:19; 247:16;262:16;314:16;

```
5:9,17,23;7:3,6,9,12,15,20,
  24;8:3,6,21;9:1,2,4,5,14,15,
  25;10:5,5,7;11:3,15;12:7;
  13:3;14:15,17,22;15:9,11,19;
  16:14.21.23:17:15.19:18:2:
  19:17;20:13,21,25;21:3,7,13,
  15,25;22:2,5,11,14,15,18,23,
  25;23:5,7,9,12,15,17,19;
  24:2,10,20,23;25:1,4,15,17;
  26:5,10;34:8;38:16,21,24;
  39:20;40:3,13,16,25;41:6,9,
  13;43:18;45:25;49:1,13;
  51:14,17,20,22;56:22;57:1;
  59:12;65:12;71:23,24;72:3,
  9;75:2,5;80:7,10;81:11,14,
  16;83:19;89:24;90:3,7;
  92:18,22;93:11,15,20,23;
  94:1,20,23;95:1,4,8,13,15,
  21;96:2,10,12,14,23;97:2;
  98:1,2,6,11,13,18;108:13;
  111:10,13,16;114:1,5;115:6,
  13,16,25;128:8,11;130:6,12;
  132:9,13;133:1;153:11,14;
  155:23;156:3,6;160:14,18;
  163:8;174:11;176:19,24;
  177:3,6;178:4,14;179:1;
  184:6,9,25;189:3,7,9;190:10,
  15,19,25;191:4;207:20;
  208:24;209:9,11;219:16,20;
  235:15;236:16;238:3;
  239:21,24;262:8;263:16,20;
  264:17,24;265:6,11,15,24;
  266:3,11,15;273:23;276:1,4;
  277:16,19,23;278:1;282:18;
  284:19;286:20,23;287:18;
  288:15,18,20;289:23;290:1,
  4,8,15,20,24,25;291:3,23;
  292:11;295:17,19,22;318:2;
  319:4;322:23;324:25;325:2;
  327:7,10,14,22,24,25;328:2,
  15,18,22,25;329:24;330:1,
  11;338:11;339:2,25;340:4;
  347:6,9;348:9,12;351:4,10,
  12,16,19;352:6,11,23;
  355:13;359:17,21,23;
  361:13;363:6;364:1;365:11;
  366:4;367:2,5,8;368:19,22,
  24;369:1,9,14;377:25;378:5,
  7;379:3,9;381:12,14;382:12;
  383:5,14,17,20,23,25;384:4;
  388:3;396:22;397:1,2,4,7,10,
  13,16,21;398:5,8,10;399:6;
  400:17;404:17,20,24;405:1;
  407:2,7,9,12,20;408:16
heart (1)
  180:24
heavily (2)
  129:4;366:15
heavy (5)
  234:9;345:21,21;346:1;
  366:17
held (4)
```

27:17;267:2;314:22;

```
403:16
hell (1)
  308:18
Hello (1)
  330:8
help (15)
  34:5;39:15;47:25;54:2;
  115:23;148:8;163:16;
  197:21;241:17,22,23;
  244:12;285:14;287:15;
  328:24
helped (1)
  355:10
helpful (5)
  33:20;41:1;79:10;295:1;
  326:15
helps (5)
  48:9;179:18;212:15;
  285:4;330:2
here's (7)
  249:9;253:3;309:16;
  312:11;327:17;348:8;403:15
herring (1)
  16:21
hey (3)
  274:3;384:24;407:11
Hi (6)
  26:17,18;319:10;355:17,
  18;381:19
high (11)
  12:11;180:24;267:14;
  353:3,4;359:6,25;366:14;
  374:6;375:21;402:7
higher (3)
  152:25;153:2;357:24
high-flow (3)
  154:1;259:19;358:9
highlighted (2)
  140:24;368:8
highly (1)
  316:2
hike (1)
  230:9
hill (6)
  300:16;302:5,10;357:3;
  368:3;379:21
hillside (1)
  308:21
hilltop (1)
  374:22
hired (1)
  86:6
historic (23)
  15:24;16:1;17:14;18:3;
  151:10,13,17;152:1,13,14;
  168:12;200:17,21,24;201:1,
  4;220:18;229:4;252:18;
  257:10;344:15,18;381:5
historical (7)
  49:25;316:20;327:3;328:7,
  10,12;337:22
historically (20)
```

```
108:12;152:7,21;159:3;
  165:7;166:7;168:22;169:10;
  170:11;172:5;173:12;
  259:23;311:16;375:1,25;
  408:8
history (4)
  159:19;229:18;333:13;
  344:22
hit (1)
  275:5
hits (8)
  272:10,10;280:13,15;
  281:20;282:25;296:23;
  349:25
hiwary (1)
  92:6
hold (6)
  172:21;240:12;246:20;
  351:14;382:14;393:19
holder (2)
  210:22;226:10
holders (1)
  317:25
holes (1)
  342:5
home (2)
  261:21;376:10
honest (1)
  237:6
honestly (3)
  229:24;234:16;257:20
hook (1)
  66:6
hope (2)
  98:4:318:24
hoped (1)
  318:18
hopefully (3)
  14:11;24:21;25:11
hoping (1)
  15:24
horse (3)
  309:17,21,22
hour (1)
  76:17
hours (4)
  251:10;273:7;314:18;
  376:10
house (6)
  224:21;298:25;308:11;
  348:18;401:20,21
huge (1)
  374:16
human (1)
  289:19
humming's (1)
  50:11
hundred (6)
  284:2,3,19,20;286:4;
  312:14
hundreds (1)
  283:25
hundred-year-old (1)
```

17:17;53:23;55:24;60:11;

344:19 Hydraulic (1) 99:9 hydrography (1) 119:17 hydrologic (3) 153:8;231:7;258:3 hydrological (1) 307:6 hydrologist (1) 15:16 hydrology (2) 19:23;406:10 hypnotize (1) 351:15 hypothetical (1) 327:12

Ι ice (2) 297:20,22 **Idaho** (24) 7:5;8:1,5;11:6;13:8;35:4, 15;36:3,12,21;97:23;119:24; 127:25;156:22;191:18; 202:14;245:25;246:16; 291:12;311:24;332:2; 352:18;389:14;406:18 IDAPA (1) 11:2 idea (6) 47:24:69:4.19:267:16: 376:13:406:23 identified (13) 7:13;9:12,14;10:15; 104:22;215:3;260:5;264:25; 296:6;336:8,9;348:25;368:9 identify (7) 45:19;79:15,16;133:25; 348:1.10.14 identifying (2) 105:4;262:21 **IDWR** (8) 18:17;62:7;63:5;68:6,11; 97:24;100:15;120:16 **IDWR's (2)** 119:16;212:18 **iffy** (1) 61:14 illegal (5) 32:5;407:18,22,23,25 illustrate (1) 39:16 illustration (4) 42:11;45:20;52:19;364:23 illustrations (1)

imagery (34) 112:2;116:8,11,12,13,15; 117:1:122:11:126:1:139:1: 146:21;147:1,5,7,17,21,24; 148:9,11,18,21,25;149:3,5,8; 158:7,23;159:4,8;160:24; 165:15;177:19;179:22; 189:18 images (9) 160:2;221:1,11,14,14; 222:6,8,9,12 imagine (1) 385:17 imaging (1) 221:8 immaterial (1) 16:20 immediate (1) 239:6 immediately (2) 76:21;121:7 impact (2) 145:20:157:8 implication (1) 201:18 implicit (2) 171:4,11 imply (1) 170:24 implying (1) 242:25 importance (2) 183:17:395:16 important (13) 7:17:23:22:81:18:111:17: 118:22;121:22;216:3; 234:20;332:10,12,17; 333:11;365:12 impossible (3) 167:6,7;230:19 improve (2) 71:8,19 inaccurate (1) 69:23 inadvertent (1) 19:10 inadvertently (3) 19:7;67:13;157:22 incentive (1) 305:23 inch (3) 76:16;179:10;305:13 inches (10) 77:25;298:13,14,16; 299:14;300:8;303:7;309:7;

326:9;342:7

156:24;181:22;182:1;

inclined (1)

include (12)

382:15

260:8

included (10) 18:20;67:6;108:18,21; 127:9;129:22;145:14; 192:23;208:7;380:17 including (5) 64:11;193:1;196:5; 214:21;395:3 inconsistent (3) 367:11,13:368:15 incorrect (4) 117:7;225:2,3;385:9 incorrectly (1) 103:20 increase (1) 203:24 independent (2) 158:2;162:21 indicate (2) 65:18;175:25 indicated (5) 17:2;63:21;80:13;233:8; 408:6 indicates (1) 67:12 indicating (2) 19:11;141:1 indication (3) 112:2;159:14;312:20 individual (3) 110:19;196:16;210:14 individuals (1) 162:4 inference (1) 15:6 in-field (3) 146:14;147:18;149:8 infinitely (1) 317:12 information (13) 19:22,24;104:7;115:11; 120:21;152:1,12;158:24; 220:19:251:6.19.22:257:14 informs (1) 211:14 initial (1) 18:7 initially (6) 152:15;159:10;300:14; 376:12;378:14;394:13 initials (1) 179:14 inject (2) 311:19,21 injecting (1) 60:21 injure (2) 157:9;338:22 injuries (1) 201:20 67:3;68:25;106:13;127:6; **injury (19)** 14:24;18:14;104:21; 206:25;215:3;224:3;268:5; 128:18:130:2:156:24:157:3.

316:25;317:2,7,8;338:20; 373:1,1 install (2) 291:24;377:12 installation (1) 215:9 installed (6) 79:24;219:13;261:6,10,18; 377:14 instances (1) 76:4 instead (3) 344:23;376:10,23 Institute (1) 99:9 instruct (1) 124:11 instructed (1) 33:4 instructions (9) 33:9,12,13;72:19,21; 169:24;174:21;204:13; 272:20 instrument (1) 357:19 instrumentalities (1) 241:8 instruments (1) 357:23 insufficient (4) 185:9;186:20;187:4,4 insurance (1) 35:19 intake (4) 285:6;296:23;303:3; 342:16 intend (3) 18:8;72:3;265:2 intended (4) 183:21;192:19;337:21; 400:18 intending (1) 25:10 intent (6) 71:14,16;72:1;74:20; 195:4,13 intention (2) 41:16;265:9 intentionally (1) 76:1 interact (1) 63:8 interaction (1) 401:4 intercept (2) 64:15;92:16 intercepting (1) 276:11 interest (4) 18:15;111:13,15;136:9 interested (1) 327:18 interesting (4)

82:1,14,20;83:4;84:15;

117:11;133:15,15;148:7;

159:11;160:3;189:23,25;

52:25

image (14)

319:22

4,16;168:16;169:5;201:16;

13:5;109:19;314:9,23 68:19 8:12 128:13;136:10;153:15; interject (1) involving (1) job (18) 163:22;374:13;397:5 324:22 13:9 61:7,22;169:19;193:10; iumped (4) interpret (3) irregardless (1) 155:25;189:4;231:23; 214:8;227:19;228:16; 105:21:218:8.20 406:19 241:12,15,17;248:24;264:22, 233:16 interpretation (7) irrelevant (1) 23;268:1,25;351:17;373:14; iumps (1) 83:11;120:18;169:18; 12:23 387:22 367:10 junction (1) 213:2,6,8;254:6 irrigate (14) jog (1) 360:14 217:2 interpreting (1) 28:14,21;31:3;46:7;86:11, 147:21 **June (6)** 12,12;102:7;318:11;323:23; jogs(1)386:2 interrupt (1) 353:12,16;370:20,20 73:7;78:23;267:4;273:20; 373:9 irrigated (10) John (2) 308:7;309:4 interrupted (1) 30:14;88:5;104:18;116:8; 348:18;388:10 jungle (5) 170:19 126:14;355:5,7,8;368:18; Johnson (30) 272:9;277:12,13;356:19; intersection (3) 375:8 8:25;21:11,17;22:6,9,14, 379:12 283:16;349:18,22 irrigates (1) 20;38:18,20;48:7;58:18; junior (17) 92:2;93:10;94:20;107:18,24; 61:15,18;62:15;71:10; into (114) 56:1 9:18;10:1;12:24;13:11; irrigating (7) 110:7,8;120:13;125:15; 101:12;109:8;124:17; 18:18;20:13,19;42:4,5;43:2; 27:3,5;45:21;58:15;87:7; 156:6;173:10,14;189:3,6; 126:13,24;153:18;182:20; 109:5;126:5 203:23;226:16;247:5; 54:18,25;56:3;60:21;64:17; 219:16;277:18,19;298:10,10 65:17;66:2,6;70:2;73:10; Irrigation (29) Johnson's (8) 317:25;403:17;404:11 84:25;86:16;87:22,25;89:3; 28:11;53:4;75:7;77:8,10; 48:17;93:10;108:1; juniors (4) 108:5;118:7;123:11;131:7; 104:14;110:17,22;111:9; 120:15;125:18;343:21; 70:25;72:4;229:1;246:22 133:6;141:3;143:13,19; 125:25;291:21,22;292:24; 379:23;394:18 justify (1) 144:15;158:25;173:7;193:2; 296:15;302:15;303:18; **join** (3) 196:2 217:3,4,8,19,20,22;218:19, 306:1,2;327:9;336:13; 121:1;179:9;330:10 K 24;219:8;224:4,4;230:14; 340:19;361:24;363:16; joinder (1) 244:17;254:20,21;260:10, 365:17;368:18;371:9;375:2, 14:21 16;262:24;272:9;276:6,19; 6;400:21 joined (4) **Kauer** (61) 277:12;281:24;283:18; irrigator (1) 10:12;137:25;150:4; 13:4,8;15:2,5,7,8,17;16:5, 29:3 284:6;289:5;296:23;297:15; 167:19 12;17:13,23,24;18:1,23; 298:4;302:10;307:18; ish (1) joining (4) 34:24;35:5;36:13;37:2; 308:23:311:19.21:315:9.21: 381:21 19:19;121:20;144:4;176:1 63:22,23,25;64:12;80:2; 319:21;322:2;323:12,15,22; **issue** (15) ioins (5) 86:23,25;87:9;129:14;213:1, 325:13,16,18;326:3,4;329:3, 11:5;15:18;155:11; 43:2;119:11;121:13; 20;256:15,20;257:6;259:22; 168:10;247:13;248:8; 141:14,18 303:10,23;309:12,23,25; 7,7,9;330:18,18;333:13; 307:10;308:13,17;309:6; 336:10;342:18;345:7;346:2; joint (1) 310:1,8;311:1,19;316:7; 367:15,18,25;382:16;383:10 347:19;350:6,25;357:7; 265:21 317:22;339:6;340:25;370:6; issued (3) 359:1;360:16;374:1;379:22; joke (1) 385:3;394:23;395:8;401:16; 17:23;206:1;214:20 98:10 386:2,19;388:7,12;392:9; 402:5,14,22;403:7,8;405:11, issues (14) JORDAN (31) 395:1;396:1,12;397:17,24; 17:406:19:408:3.5 402:14;403:12 19:24:24:18:74:8:79:8: 5:13:8:11:63:10:95:19: Kauers (5) intrigued (1) 88:14;93:14;99:5;104:21; 213:9;255:24;260:21;261:6, 13:9;331:23;372:4;396:3; 314:20 153:19;157:2;254:5;255:5; 18;274:19;290:7,8,10;291:9, 405:19 invariably (1) 260:6;345:20 11;319:10;320:4;328:3,11; Kauer's (1) items (1) 379:22 329:2;338:25;347:5;354:13, 87:1 investigate (2) 128:6 23;355:24;356:5,15;383:4,8; keep (12) 216:5;234:22 386:15;400:18 137:6;138:6;163:15; investigated (2) J Jordan's (3) 251:2;259:24;297:19; 155:7;229:24 355:20;371:8;379:10 300:12;385:19;398:22; investigation (8) jack (1) jotting (1) 400:4,6;405:12 37:8;158:24;204:8;216:1; 345:5 282:20 keeps (2) 237:12,18,25;307:1 judge (1) 137:23;398:24 **James (36)** investigations (4) 7:4;8:10;60:4;63:10; 182:3 Kelly (1) 236:19,21;237:3,8 160:12;163:6,14;210:6; judgments (1) 91:21 involve (1) 226:24 211:5;213:9;236:12;265:19; kept (5) judicata (2) 243:21 266:7;287:16;290:11; 217:19;246:5;270:5,5; involved (16) 333:24;335:6,9;352:2; 405:22,24 308:2 7:12;201:19;242:14,20; **July (6)** kicked (1) 368:25;369:4,5,18,20; 243:23,24;257:1;268:13; 381:19;383:9;384:7;385:25; 37:17;63:25;64:6;78:24; 304:19 269:12,13;292:8;309:5; 387:25;390:1;394:8,19; 199:21;314:4 kid (6) 310:8:370:3:400:22:401:11 398:14;407:8,11,17 iump (10) 301:6;353:24;358:5; involvement (1) James' (1) 57:7;108:13,24;114:5; 366:19,22;374:2

kidding (1)	401:8	237:22;247:6;258:23;	60:19,21;64:16,17;66:13;
243:20	known (10)	269:11;291:1,3;299:12,16;	67:6,8;70:2;71:21;76:21;
kids (2)	42:12;110:2,3;119:6,11;	305:24;307:16;317:12;	77:4,17,21;78:10,11,25;79:4;
231:18;307:23	144:16;191:12;291:13;	346:8;370:15;384:17	82:24;83:2;84:22;89:1;
kind (92)	407:18,24	lastly (1)	90:17,18,20,24;94:12;
16:5;19:3;24:6;35:15;	knows (1)	12:20	100:13,24,24;102:7;109:5,
39:16;46:5;47:4;48:18;	81:8	late (13)	17;110:2,10,11,13,22;111:4;
57:16;63:24;70:5;76:13;	Kool-Aid (2)	23:7;67:21;86:16;94:14;	112:24;119:6,7,11,12,12;
78:11;79:12,17;80:3;82:18;	305:17;346:9	99:2;267:3;273:20;315:9;	120:8;121:11,11,12,13,23;
84:18;85:3;90:24;94:13,16;	T	332:8;373:8,8;376:19;	122:3,22;123:3,6;125:2,7,13;
99:4,21;105:25;111:18;	L	391:17	127:14;129:2;131:7;132:7;
114:16;118:13,20;119:7;		later (7)	133:6,15;134:13,17,19;
120:2;125:21;129:12;139:4;	label (2)	31:23;33:5;56:18;99:8;	135:6,9,11,13,20,23;136:24;
147:15;153:15;155:25;	218:13;312:17	230:11;251:11;273:7	138:9,19;139:3;141:3,14;
157:10,18;178:9,24;191:12;	labels (1)	Latin (1)	143:13,19;144:15,17;145:17,
192:16;193:6;200:19;	218:12	406:1	19,25;155:10;163:11;
201:17;204:5;209:7;217:1;	lady (1)	Laura (1)	164:18,21;165:1,21;167:22,
219:8;230:21;231:16;	307:21	8:16	25;168:3,4,7;172:11;179:4,
234:16;239:5;240:23;	laid (1)	law (5)	8;181:10,11;185:8,11,24;
241:11;246:7;252:24;	20:4	202:14;245:25;246:16;	186:17,18,19,23;187:5,7,12,
253:11;265:21,25;268:8;	lake (1)	259:7;406:2	16;188:22;194:1,5,5,6,17;
270:15;287:3;294:25;	315:21	lawsuit (4)	196:18;200:3,18;201:6;
296:24;297:19;307:22;	Lakes (1)	372:3,9,9;394:22	202:8,15,22;206:10,14;
314:15;316:5,5,9,9,23;320:8;	11:10	lay (8)	207:13,15;208:13;209:25;
326:14;330:15;343:9,21;	land (9)	25:11;45:18;114:3;120:3;	211:16;215:7;217:8;218:6,7,
344:20;346:1;356:21;	36:7;47:13;48:3;88:4;	255:1;326:14;349:3;356:3	8,17,19,21;219:1,1,2;223:25;
357:17;365:7;368:3,8;	213:14;255:2;326:14;356:3;	layer (2)	224:4,11,22;225:20,21,24;
374:22;377:2,4;378:13;	370:22	119:17,24	226:2;227:9;228:8,9,9;
380:20;397:13	landed (1)	lead (1)	230:23;231:9;235:2;237:4,
kinds (1)	238:6	263:10	17;238:9,20;239:16;249:16;
78:1	landmark (1)	Leadore (3)	252:17;253:21;254:8,11,16,
King (24)	82:6	266:22;291:12;369:20	18,21;255:4;257:11;258:5;
8:9;25:5;64:22;67:11;	landowner (1)	leakage (1)	260:16;263:23,25;267:7,25;
81:9,19;96:13,15,19,23;97:8;	86:4	76:25	272:10;274:24;275:12;
98:4,17;111:10;177:9;	lands (1)	leapfrogging (1)	280:3;281:20,20,21,24;
190:11;204:22;217:11;	199:12	173:11	282:3;292:22;293:12,23,25;
222:8;229:19;230:2;231:15;	Lane (1)	learn (1)	300:20;305:9;311:17;
249:11;259:3	352:18	268:1	316:16;325:6,22,23;330:18,
K-i-n-g (1)	language (29)	learned (1)	20;331:6;333:14,20,21;
97:8	13:18;14:1,4;113:12;	406:1	334:4;343:8;344:8,10,23;
King's (6)	124:10,19;171:5,16,22;	leased (2)	346:12;348:25;349:7;
19:5;115:11;198:17;	172:1,5;181:3,8,22;182:2,15,	86:5;280:19	353:21;354:6,12;359:1;
		least (28)	360:11,17,20;361:2,4,20;
200:19;263:5;331:15	25;183:6,7,15;184:1;185:2;	` ,	
Kipp (3)	186:5,7;197:4;199:9;245:13,	15:6;17:16;18:10;86:20;	362:1,6,8,19,19,20,21,23,25;
		105 1 141 00 176 11	262 1 2 4 5 0 265 5 266 16
8:16;49:12;82:3	13;247:15	105:1;141:23;176:11;	363:1,3,4,5,9;365:5;366:16;
knew (22)	largely (1)	178:13;187:24,24,25;	367:14,21;373:19;375:11;
knew (22) 38:14;234:3;245:6;249:22,	largely (1) 215:14	178:13;187:24,24,25; 195:11;199:15;216:18;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23;	largely (1) 215:14 larger (1)	178:13;187:24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8,
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11;	largely (1) 215:14 larger (1) 114:19	178:13;187:24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10,
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19;	largely (1) 215:14 larger (1) 114:19 LARRY (11)	178:13;187:24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11;	largely (1) 215:14 larger (1) 114:19 LARRY (11)	178:13;187:24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10,
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19;	largely (1) 215:14 larger (1) 114:19	178:13;187:24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17;	178:13;187:24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57)
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19	178:13;187:24,24,24; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4)	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1)	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4)	178:13;187:24,24,24; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1)	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2)	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2)	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1)	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10,
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2) 235:22;303:20	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2) 41:10,14	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1) 201:22	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10, 18;181:10;185:24;186:17;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2) 235:22;303:20 knowledge (16)	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2) 41:10,14 last (34)	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1) 201:22 Lee (292)	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10, 18;181:10;185:24;186:17; 187:15,18,22;188:24;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2) 235:22;303:20 knowledge (16) 20:18;30:16;66:9;86:16;	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2) 41:10,14 last (34) 13:2,7;19:1;45:10;54:14;	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1) 201:22 Lee (292) 26:24;27:12;30:6,20;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10, 18;181:10;185:24;186:17; 187:15,18,22;188:24; 201:22;217:8;219:2;224:22;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2) 235:22;303:20 knowledge (16) 20:18;30:16;66:9;86:16; 146:14;177:16;200:1,6;	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2) 41:10,14 last (34) 13:2,7;19:1;45:10;54:14; 70:8;74:2,7;88:7;129:13;	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1) 201:22 Lee (292) 26:24;27:12;30:6,20; 35:11;37:24;39:10,12,13,14;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10, 18;181:10;185:24;186:17; 187:15,18,22;188:24; 201:22;217:8;219:2;224:22; 274:24;275:12;280:5;286:5;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2) 235:22;303:20 knowledge (16) 20:18;30:16;66:9;86:16; 146:14;177:16;200:1,6; 220:17;223:2,5;232:22;	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2) 41:10,14 last (34) 13:2,7;19:1;45:10;54:14; 70:8;74:2,7;88:7;129:13; 134:21;174:15;205:13;	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1) 201:22 Lee (292) 26:24;27:12;30:6,20; 35:11;37:24;39:10,12,13,14; 41:23,25;42:4,5,15,18;43:5,	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10, 18;181:10;185:24;186:17; 187:15,18,22;188:24; 201:22;217:8;219:2;224:22; 274:24;275:12;280:5;286:5; 288:2;297:11;301:22;304:2;
knew (22) 38:14;234:3;245:6;249:22, 24;256:4,7;269:3;308:23; 361:1,2,6,7;362:2,10;363:11; 365:8,9;367:14;373:19; 384:21;385:22 knocked (1) 298:1 knoll (1) 304:20 knowing (2) 235:22;303:20 knowledge (16) 20:18;30:16;66:9;86:16; 146:14;177:16;200:1,6;	largely (1) 215:14 larger (1) 114:19 LARRY (11) 5:19;351:22;352:1,15,17; 361:19;364:4;373:18; 375:20;376:19;387:19 Larry's (4) 374:9;375:5,6;387:20 laser (2) 41:10,14 last (34) 13:2,7;19:1;45:10;54:14; 70:8;74:2,7;88:7;129:13;	178:13;187:24,24,24,25; 195:11;199:15;216:18; 220:25;221:15;265:8; 306:13;312:19;317:21; 342:25;348:22;349:6,16; 358:8;374:19;378:16;381:5 Leave (4) 95:6,8,10;240:15 leaves (1) 160:9 leaving (1) 201:22 Lee (292) 26:24;27:12;30:6,20; 35:11;37:24;39:10,12,13,14;	367:14,21;373:19;375:11; 377:10;378:4;379:8;384:9; 385:8;386:19;387:14;390:8, 9,14;392:6,10,12;393:1,10, 15;396:12 Left (57) 39:13;42:17;43:21;46:5; 48:5;52:16;77:21;90:20; 91:4,5;109:16;110:2;119:11; 120:8;121:1,11;122:4; 135:20;138:4;168:5;172:10, 18;181:10;185:24;186:17; 187:15,18,22;188:24; 201:22;217:8;219:2;224:22; 274:24;275:12;280:5;286:5;

365:5;367:14;385:7;390:8;	10:6,16;11:13;17:3;19:19;	364:11;365:21;374:6;	275:20;284:15;293:3;294:2,
392:10,12;408:4 left-hand (9)	20:1 limitation (1)	375:13;377:2,3;378:12; 379:12;393:2;394:3;398:16,	10;298:13;339:19,20; 341:22;358:6;375:21;
320:6,14;360:13;362:15;	61:9	21;400:5,6,6,6;408:2	376:19;387:21;402:3;404:14
386:1,7,9,18;387:7	limited (4)	live (2)	longer (7)
legal (23)	56:8;59:7;61:8;403:9	58:15;268:8	74:6;196:15,20,24;303:22;
44:24;50:21;103:10;	Lincoln (1)	lived (3)	311:13;378:17
105:4;129:16;168:11;	27:2	69:10;268:12;356:11	long-term (1)
204:23;232:5;242:19,25;	Linda (1)	livelihood (1)	153:4
245:23,25;246:16;253:9;	74:17	305:25	look (72)
259:9,13;260:6;269:1,4;	line (27)	livestock (2)	14:23;16:7;31:13,14;
333:1,6;338:15;388:8	35:24;48:16;98:7,15;	28:12;58:16	32:15;34:22;35:17;37:5;
legally (2)	102:16,24;107:6;208:5;	LLC (3)	48:10;74:3;75:15;82:15;
84:24;338:3 legend (2)	211:1;253:20;292:20;298:9; 299:8,12;301:13,16;330:10;	291:14,17;292:2 loaded (1)	83:13;102:21;105:7;106:16; 109:24;111:3,23;112:1;
163:1,1	335:15,18;336:3;343:22;	294:7	114:8;119:9;122:16;126:7;
Lemhi (38)	345:2;349:3,4;364:5,6;	local (4)	127:18;142:4;157:3,5,7;
65:16;68:13;79:2,5;85:21;	395:13	18:14;172:17;187:22;	160:15;174:1;175:21;
98:21;99:6,11,20;110:8;	lines (8)	200:3	177:16;178:2;182:2;184:13;
118:17;121:18;122:2;	119:8,16,18,20,22;153:16;	locally (3)	189:16,16;190:2;196:17;
128:22;129:19;142:19;	302:5;309:9	119:6,10;172:10	197:20;198:9,16;199:21;
158:12;162:22;177:20,22;	lion's (1)	locate (1)	203:10;205:19;206:19;
189:18,21;192:23;193:1;	53:15	159:25	209:4;210:7;211:10,25;
202:15,18;203:8;207:9;	list (17)	located (19)	212:8;213:24;220:21;
208:11;214:2,6;224:4;263:6;	37:25;66:25;101:2;109:6,	29:9;80:25;115:14;122:7;	237:23;239:8;245:11;
292:3;312:6;333:16;370:22;	20;110:11;111:2;122:24,25;	127:25;130:19;177:17;	253:17;260:3;270:11;
381:23	123:8,12;124:24;134:7;	178:19;189:17;213:14;	299:15;317:20,20;320:5;
length (2) 304:7;329:5	202:18;265:1;382:11;388:24 listed (15)	293:8;312:24;315:5,5; 326:16;342:10,11;353:19;	334:13;343:17;348:4; 357:16;363:24;367:9;382:2;
less (5)	105:12;122:19;124:25;	394:5	387:24
84:18;107:12;180:21;	134:12,12,16;135:11;145:4;	locating (2)	looked (40)
231:21;402:18	202:17;208:18;360:16;	147:16;159:22	24:17;47:17;58:14;65:3;
Letter (25)	380:23;382:2,3;388:21	location (63)	70:21;89:3;112:15;121:16;
31:22,23,24;32:2,12,16,19,	listen (2)	15:17;16:17;58:11;79:8;	126:19;127:17;135:18;
23;72:22;105:10,18,22;	315:19,20	92:13;103:13,15,19;114:25;	140:25;149:25;150:1;
174:24;194:10,14;203:11;	listened (1)	115:6,18;116:21,22,23;	151:16,19;152:21;160:23;
205:20;251:16;271:10,12,19,	355:4	118:13,19,20;120:17;	166:6;189:25;200:21;
24;272:20;313:15;348:20	listening (3)	128:25;129:10;130:25;	204:25;216:17;229:5;
letters (5)	165:24;209:15;386:14	139:12;140:3;142:10,13;	233:18;234:8;237:24;
31:15;33:12;174:3,4,8 level (1)	listing (2) 110:9;125:13	143:4,11,20;144:4;147:10, 16;148:5;149:11,16,23;	249:20;251:11;263:5; 289:14;315:3;331:3,14;
387:20	lists (5)	151:2,3;155:3,9;160:21;	333:23;350:12;378:25;
liberties (1)	123:2,8,9;125:19;238:13	163:10;166:8,12,13,13;	388:16;394:25;395:2
371:5	litigation (5)	176:4;179:18,20;180:1,5;	looking (45)
licensing (1)	331:23;370:7;395:8;	190:5;217:15;234:17;	10:25;28:6;40:8;42:11;
221:8	396:3;405:11	262:19;283:3;287:11;296:5;	45:19;52:19,24;55:20;79:16;
life (9)	little (83)	298:19;300:5;302:3,8;348:1;	83:11;101:14;104:1;106:10;
205:5;292:9;305:15;	28:7;31:10,18;34:12;	350:10	114:16,19;126:16;142:23;
306:20;332:5;338:24;354:2;	40:22;45:12;46:5;47:19;	locations (9)	164:5;165:12,13,13,14;
384:25;385:16	52:6;54:17;57:8,10,11,14;	19:6;116:5;120:3,16;	179:22;180:4,4;184:21;
lifeblood (1)	61:25;81:11;102:9,22,23,23; 114:4;116:5,24;118:18;	142:25;143:7;159:21;	190:6;197:15;200:15; 201:10;205:14,20;211:14;
332:14 lifetime (4)	122:9,10;128:23;148:4;	160:24;298:4 lockable (5)	221:16,20;244:10;250:1;
370:14;372:20;374:4,19	161:4;195:22;199:11;	105:16;214:15,23;278:19;	253:22;358:16;362:11;
light (3)	207:25;217:4;223:15;	340:20	364:4;390:4,12;396:6,19
39:19;48:18;212:13	237:22;238:17;241:24;	logged (1)	looks (34)
lights (4)	253:19;256:5;262:1;267:20;	190:17	13:10;35:23;39:22;
40:2;65:8;248:21,25	270:12,17;271:12;281:7;	logistics (1)	104:16;106:6;110:19;
likely (1)	286:8;292:18;298:19,22;	7:11	115:20;116:21;117:15,16;
138:22	299:1;301:18;303:6;304:1;	long (28)	118:3,14,17;126:2,21;
likes (1)	305:8,8;320:3;321:5;323:17;	18:21;27:3,16;38:8;53:25;	128:24;161:4,11,12,13;
92:6	342:11,12,14,17;347:24;	69:4;152:6;178:22;191:13;	198:3;206:23;210:2,6;275:9;
limine (6)	348:20;361:1;362:17;	192:5;193:21;213:25;267:2;	283:8;287:3,13;303:13;

344:19,21;365:22;388:8; 391:14 loose (3) 83:19;309:10;326:8 loosely (1) 329:20 **lose** (1) 199:11 loss (2) 317:24;318:22 losses (2) 182:13;204:2 **lost (2)** 259:12;377:7 lot (51) 78:20;81:15;83:14;84:4,6; 87:21,22;159:5;165:25; 205:5,6;215:25;220:8; 229:18;230:10;251:23; 254:25;279:7;299:2;303:19, 23;305:25;310:22;312:15; 317:7,8,24;327:17;339:18; 348:4,5;355:4;356:25;357:1; 358:16;360:7;366:19,21,23; 370:25;371:1,2,3;373:4; 375:10;378:17;387:21; 388:7,11;395:2,11 lots (4) 92:7;129:5,6;345:14 louder (1) 52:7 Love (1) 180:25 low (3) 152:25;274:12;408:9 lower (129) 29:9,10,12,25;30:2,2,24; 31:6,20;33:13;36:24;44:11, 13,19,22,23;45:2;47:21; 48:14;50:20,23;51:4,15,18, 25;52:5;53:7,15;54:5,19,25; 56:14,16;57:21;58:12;59:1; 60:18;61:3;62:22;65:21; 66:5;67:12;68:25;70:23; 71:11,19;72:1;76:2;77:5,11, 18;78:9,16;79:1,9,17;80:15, 24;83:22;86:11,20;88:1,2,5; 91:18;92:1,19,21;93:16; 94:10;102:12,16;103:1; 105:12,14,24;106:13;114:13, 18,19,22;116:9;118:9,13; 119:13;121:10;125:16,20; 128:19;132:2,10,12;135:15; 144:8;145:3,7;154:12,13,24; 155:22;158:6,6,10,16; manipulation (2) 170:12;172:9,12;176:10; 166:1,20 195:5;221:24;257:9;259:25; manipulations (3) 269:7,10,24;272:6;273:5,8; 167:7,24;279:9 279:6;308:3;312:18;314:14, manmade (2) 19;315:1;318:11;354:11; 238:25;254:25 374:16;407:17,22 Manwaring (108) lowest (2) 5:8,16,22;8:16;14:18,20, 330:6.16 23;15:20;16:24;38:22,23,25;

luck (1) 290:3 lucrative (1) 357:6 Lunch (3) 95:14.16:130:13

 \mathbf{M} magnifying (1) 347:24 magnitude (1) 373:2 **main (9)** 43:7;141:18;302:22; 329:9;345:19;347:12; 348:17;367:18;392:3 mainline (2) 302:4,10 mainly (2) 53:12;314:20 mainstem (3) 99:22;203:7,8 maintain (1) 165:7 major (1) 11:8 majority (1) 233:25 makes (13) 15:3:16:10:20:16:117:17: 118:21:182:7:271:8:274:20: 283:15;329:14;347:17; 360:14;373:2 making (19) 15:12,16;22:16;49:5;96:1; 119:21;128:4;133:12,24; 176:2;208:8;270:5;272:23; 279:8;319:2;351:16;402:10; 406:15;408:12 man (1) 375:6 manage (2) 7:18;191:22 Management (1) 242:23 manager (2) 97:12;291:17 manipulate (2) 263:11;284:9 manipulated (4) 166:7;217:12,18,18 manipulating (1) 165:9

400:14 Manwaring's (2) 49:7,12 many (10) 28:23;107:3;109:8; 174:10;177:10;196:5; 200:12;258:19;370:22; 398:25 map (138) 128:23;132:15;137:3; 21:140:9,22:141:10,11; 270:12;292:19;308:11; 21;360:1,10,17;361:3; 396:1,5,7,21 mapped (4) 118:6;131:14;147:15; 393:15 mapping (8) 118:18;122:5;142:18; 147:6;149:21;159:20;165:4; 221:5 maps (38) 83:1;116:25;118:1,2;

39:2,22;40:8,15,22,25;41:4, 22;147:1;158:21,22;159:8, 8,12,16;43:22;45:12,16,18; 21;161:16,17;162:6,15,22, 46:8;47:7,10,16;48:23; 22;165:12;173:5;178:17; 49:16,18;50:7,13;51:21,23; 213:15;220:19;221:5,6,12; 55:8;56:19;80:7;82:16; 253:17;257:13;263:4,5,8; 83:14,21;90:3,5;98:2,14; 331:3,14,14;395:10 map's (2) 119:4;130:8,11,13,16; 394:7;395:14 132:14;133:2;137:1,5,9,11, 17,20;140:14,18;153:9,16; March (3) 27:24;100:2;146:24 156:1,2;184:7,8,12;185:2; 189:1;219:18,19,23;236:14, marching (1) 18;239:19;255:21;258:2; 205:5 mark (4) 263:13;277:21,22,25;278:5, 163:17,21,24;164:2 6;289:24,25;340:2,3,5,8; 347:4;361:14,15,18;363:8; marked (2) 364:3;365:19;366:2,8;367:3; 213:15;362:13 371:22,25;398:8,9,13;399:8; marking (1) 117:13 marks (1) 159:21 master's (1) 99:1 matched (1) 119:19 math (1) 107:13 65:15;69:16,23;79:10,12; matter (15) 81:7;82:25;91:23;101:25; 12:2;18:14;64:25;99:24; 102:8,10,10;115:21;118:12, 169:3;204:8;235:24;273:11; 21;119:14,15,19;120:4,20; 290:22;291:17;306:7;307:1, 121:2,4,17,17,19;122:2,9; 8;310:6;343:18 matters (5) 11:22;12:9;97:23;156:16; 138:17,19,21,25;139:9,13, 234:16 142:4,19,21;147:3;158:25; Maughan (3) 267:3,8;293:19 159:9,18;160:1,16;162:18, 24;163:1,7,10,17;164:4; may (42) 7:14;9:8,11;13:5;16:2; 165:14;168:4,8;177:21,21, 20:5,11;21:19;22:4;24:7; 22,23,24,25;178:7;200:20; 220:8;221:1;224:16;249:15; 39:15,19;40:1;41:1;101:12; 252:16;253:17,19;263:4,6,7; 112:23;114:17;152:2; 172:10;187:18,19,19; 312:20;315:4,22;319:14,18; 188:12;197:21;204:22; 321:3;327:14,19;328:16,20; 205:10,11;212:1;216:1; 343:17;345:1;347:11;348:2, 227:3;228:19,20;232:5,5; 14,22;349:4,6,9,17;359:20, 244:9,25;250:6;259:8; 282:19;307:12,17;352:21 365:14;367:9,10;371:17,19, **maybe** (60) 19;372:2;373:12,16;385:2,4, 23:25;52:11;53:9;54:15; 10,25;387:8;388:12;389:17; 57:18,23;58:2;62:12;63:11; 391:6,8,14;392:11;393:24; 66:17;77:3;78:21;79:11,14; 394:9,20;395:1,7,10,17; 82:22;85:20;110:3;111:13; 114:18;120:20;126:23; 132:25;142:19;143:17; 146:5;149:8;151:21;152:20; 161:8;164:13,14;172:14; 174:16;187:21;204:4;220:3; 223:14;227:13,13;229:22;

141:23;142:24;146:1,9,17,

235:12;236:25;255:21;

262:4;269:25,25;283:1;

295:16;296:24;310:13;

317:23;319:21;320:2,2,6; 324:22;347:24;356:9;

357:25;358:3	313:12;314:21;315:22,23;	memories (1)	110:10
McConnell (83)	323:16;324:17;330:5,23,24;	368:15	million (3)
7:23;8:7;10:6;18:20;25:2,	331:8;334:6;341:13;357:14;	memory (1)	307:15,16;326:24
19,22,25;26:1,5,21;33:1,3;	358:25;365:13;386:15;	382:17	mind (17)
38:19;43:19;48:10;51:14;	388:11;399:25;407:18,22	men (1)	31:11;44:4;47:25;81:25;
57:6;75:6;80:13;93:9,15;	meander (1)	380:2	200:2;213:20;215:25;
95:5,24;99:24;100:19,23;	141:17	mention (2)	238:14;239:17;253:4;275:8;
105:11;113:13;114:12;	meandering (3)	214:2,3	306:19;308:18;337:25;
121:23;124:20;125:16,20;	152:9;315:24,25	mentioned (25)	380:19;384:19;406:24
130:22;131:1;167:14;170:1,	meaning (5)	31:19;49:19;58:3;86:23;	mine (3)
24;173:3,11,15;174:6,7;	54:3;110:13;122:13;	112:18;124:7;126:6;151:9,	90:5;212:8;326:12
180:11;181:12,13,21;183:3;	132:9;180:14	17;153:21;181:8;190:12;	minute (8)
186:20;194:15;195:1,6;	meaningless (2)	203:6;222:19;229:5;231:5;	193:23;212:6;257:18;
196:12,23;201:25;222:23;	184:1,4	236:18;237:2;238:7,8;	260:21;304:9;383:3;394:1;
233:23;234:4;243:5;244:5,7,	means (5)	252:12;280:9;337:8;362:7;	399:4
18,24;248:9;250:19;255:16;	88:12,18;131:17;202:22;	398:14	minutes (3)
257:9;269:13,17;273:6;	231:14	mentioning (1)	9:1;21:20;22:19
274:4;308:14;319:11;	meant (9)	150:15	miscommunication (1)
336:25;339:22;341:2;342:9;	22:12;151:12;189:20;	mentor (1)	21:18
372:4;380:6;393:23;403:21;	192:19;193:16,17,18;258:1;	242:7	miserable (1)
405:6	288:6	merge (1)	309:19
M-c-C-o-n-n-e-l-l (1)	meantime (3)	133:18	misinterpretations (1)
26:22	117:21;131:15;141:25	MERRITT (25)	147:8
McConnells (35)	measurable (1)	5:5;32:9,18,24;63:1;73:7;	misremembered (1)
96:9;100:12,22;102:6;	152:17	105:19;245:6;266:2,6,21;	94:18
103:9,17;105:23;124:17;	measure (9)	274:5;287:25;299:13;300:6,	miss (1)
127:12;131:3;133:5;134:5;	268:3;278:12,14,16,22;	7;304:9,25;305:2,16;307:13;	218:13
139:12;144:18;158:1,4;	298:12;303:25,25;385:22	313:16;315:14;331:1;356:19	missed (1)
198:15;203:14;204:13;	measured (9)	mess (4)	333:6
212:17;251:3;258:18;	80:2;262:1;299:13,13;	297:25;301:5;339:21;	missing (4)
275:15;303:21;314:17,23;	300:6,7;322:6;401:25;402:3	356:20	8:23,24;21:22;299:19
332:20,23;338:3,8,12;	measurement (11)	messages (1)	misstate (1)
346:20;355:19;381:20;404:8	55:12;214:14,20;215:9;	251:24	9:23
McConnells' (38)	232:17;233:5;235:24;	met (2)	misstated (1)
101:18;109:3;120:12;	250:18;261:11;273:2;279:5	233:1;384:23	22:11
121:3,12,20;122:14;126:22;	measurements (15)	methods (1)	misstatements (1)
130:24;131:6;134:11;141:2;	9:10;16:4;72:25;174:22;	159:7	24:3
143:20;144:6;145:16;	175:2,7,23;250:12;261:1;	Middle (4)	misstates (1)
164:12;175:20;179:21;	272:22,23;273:4;313:17,20;	192:21;249:14;313:7;	333:16
182:21;186:6,9;187:11;	314:1	390:10	mistake (2)
190:2;196:14;201:11;	measures (1)	might (41)	117:8;321:19
249:23;273:2,5,8;278:6;	342:3	41:14;79:13;84:25;110:4,	mistaken (1)
292:10;293:8;315:4;318:3;	measuring (22)	12,14;114:15;126:22;	260:23
339:22;379:18;403:24;	79:9,21,24;80:25;115:6;	131:15;137:20;143:24;	mistakes (1)
404:11	214:24;216:7,8;232:20;	144:3;148:4;150:5,24;	384:25
McConnell's (7)	233:9;236:5;239:14;260:24;	151:24;152:20;154:8,9,14;	misunderstood (3)
10:11;142:5;170:10;	262:3;278:14,24;279:7,14,	158:24;161:10;176:6;178:1;	164:14;166:22;270:8
245:9;268:18;272:3;336:22	22,24;296:18;341:23	200:23;201:22;232:1;	mixed (2)
McHugh (1)	mechanism (1)	235:10,21;239:4;250:7;	72:17;396:19
8:8	23:18	257:20;261:14;284:16;	model (3)
mean (66)	meet (2)	287:1;288:1,6;292:17;	99:10,10,12
18:4;20:13;23:8;33:25;	17:8;60:3	319:23;391:18;400:19	modification (1)
74:9;77:2;78:18;83:13;93:7;	meeting (6)	Mile (26)	343:24
94:19;105:20;168:1;171:12;	21:11;27:22;60:5,6,15;	27:12;53:9;110:9,12,24;	modified (1)
198:10;201:14;202:1,20;	330:9	111:1,3;124:22;125:6;	215:2
203:21;204:2,17;205:3;	meets (2)	126:11,15;180:21,21,24;	mom (1)
213:19;216:15;217:10;	18:6;100:15	266:22;267:7;268:16;279:2,	39:5
222:14;224:19;230:8;	member (2)	3;292:22;297:1;298:13;	moment (3)
231:25;232:18;233:20;	291:13,16	300:21;305:13;317:14;	95:18;237:21,22
235:5;240:6;244:23;249:10;	memo (1)	344:23	Monday (2)
257:15,19,20;258:24;	12:21	milking (1)	27:24;314:8
269:15;286:21;303:10;	memorandum (4)	285:22	money (1)
305:17;306:19,22;311:7,10;		Mill (1)	374:6
	1 / · · · · · · · · · · · · · · · · · ·	\ - /	271.0

Montana (1)	moveable (1)	name's (1)	199:4;232:14;340:21;
27:2	231:21	274:3	351:21;376:14;379:21;
Month (1)	moved (19)	naming (1)	387:25;388:5,5;396:23;
174:19	117:21;118:3;131:18;	367:15	397:5
months (1)	141:24;146:3;160:13,13;	narrative (1)	nice (7)
174:17	168:25,25;170:13;205:11;	336:3	12:12;119:8;140:17;
monuments (2)	217:14;229:21;232:11;	natural (10)	161:20;311:5,5,6
159:24,25	339:16;359:14,15;370:18;	167:4,8;231:7,17;258:3,	nobody (1)
more (64)	376:19	16;259:1;289:19;305:12;	392:15
10:24;11:10;14:18;40:22;	movement (1)	349:10	nobody's (1)
41:1;58:20;78:2,3,4;81:12,	150:6	naturally (5)	305:2
15;99:16;119:21;120:14;	moves (1)	167:1,3;168:24;218:24;	nodding (1)
125:5;155:25;166:10;184:7;	144:11	255:2	264:18
189:10;190:13;197:2;	moving (9)	nature (3)	noes (1)
215:25;219:13;220:3;222:8;	72:4;122:8;130:7;137:24;	15:24;17:21;232:7	264:18
224:8;225:5;231:19;242:6,7;	156:3;168:14;229:20;	Nature's (1)	non-appearing (1)
244:4;262:10;264:19;	294:13;328:23	91:21	23:18
279:10;299:2;302:2,9;	Mrs (1)	near (3)	none (4)
303:23;307:1;310:18,22;	280:6	180:24;216:15;393:16	9:25;211:22;241:13;305:1
317:7;319:25;320:2,3;329:8;	much (48)	nearly (2)	nonprofitable (1)
330:15;358:13;365:1,1,2;	46:19;48:22;57:18;70:8;	11:8;167:6	373:3
368:20;378:23;394:4;396:6,	75:16;77:20;84:6,7;87:18;	necessarily (6)	normally (1)
25,25;401:8,9,11;402:17,19,	114:15;136:8;160:10;	129:9;131:18;141:20;	84:10
21;408:2	164:13;166:10;170:24;	176:9;187:25;196:17	north (13)
Morena (1)	182:13;192:2;203:4;212:7;	necessary (2)	51:18;80:14,14,21;117:3;
307:25	218:15;219:8;221:10;	13:19;211:20	118:11;139:14;253:20;
Morgan (1)	226:16;231:19,22;246:11;	need (34)	296:24;349:17;350:3;
352:18	253:19;259:16;267:22;	10:21;20:4;24:22;25:9;	358:25;403:13
morning (2)	279:6,19,23;304:2;318:1;	31:3;32:5;46:25;57:11;72:8,	northeast (15)
7:3;244:21	328:24;332:16;350:13;	13;77:14;88:16,17;96:15;	46:15;102:17;105:1,1;
morphology (1)	354:2,24;356:1,12;357:3,3,9,	113:24;139:14;150:9;	163:13;164:4,5;166:17;
259:15	17;370:21;375:8;408:7	154:22;161:23;193:10;	179:13;252:22;253:3,12,12;
most (19)	muck (1)	209:15;211:3;215:22;	296:24;312:21
54:15;77:17;79:3;126:23;	84:22	226:19;240:16,20,21;	northwest (2)
127:2;163:4;177:18;182:7;	Mulky (2)	243:17;244:12,25;265:8;	120:24;151:21
201:9;213:23;215:10;236:3;	198:4;199:14	273:11;325:2;384:24	notably (1)
		needed (8)	215:13
258:11;284:4;301:8;343:1,	multiple (4)		
11;380:2;402:12	222:12;298:3,3;304:23	68:4;115:20;244:4;	note (3)
mostly (6)	multitasking (1)	245:13;264:2;337:24;375:7;	11:7;20:10;21:16
37:25;43:21;46:15;	248:25	406:11	noted (2)
126:14;226:12;236:13	must (3)	Needless (1)	21:25;43:18
mother (1)	105:13,14;330:11	181:20	notes (7)
353:11	myself (14)	needs (7)	57:6;160:15;251:5,15;
motion (15)	47:25;98:3;119:23;139:7;	105:15;215:25;218:4;	255:25;261:17;282:20
10:6,11,12,16,22,23;11:20;	189:22;203:16;242:6,6;	266:1;307:1,2;379:1	notice (13)
14:14;17:2,3,4;19:19,19,19;	248:23;249:4;304:22,25;	Nef (10)	9:6;68:11;79:7;93:8;
20:1	308:5;380:3	29:8;30:8,20,22;58:3;	137:23;209:19;210:9,11,18,
	300.3,300.3		21;229:15;302:11;333:23
motions (4)	NT	65:24;85:7;86:7,15,21	
10:17,20;11:1,13	N	N-e-f (1)	Notices (1)
motor (1)		58:4	210:9
301:12	name (18)	Nef's (2)	notion (1)
motorbike (1)	7:3,22;26:20;32:6;40:19;	30:16;48:6	11:16
308:21	97:7;99:21;119:7;187:22;	neigh- (1)	November (3)
mound (1)	191:10;224:14;225:3;	357:25	50:19;101:12;124:23
324:14	262:24;266:19,21;291:9;	neither (1)	NSA (1)
move (27)	352:16;369:18	254:22	148:15
20:20;26:23;27:1;46:4;	named (9)	net (1)	number (16)
71:8,24;84:22;93:24;96:3;	123:11,13;124:6;125:2;	196:21	88:8;99:17;103:24,25;
113:24;129:8;152:8;153:21,	218:18;225:9;262:22,24;	new (7)	104:2;109:7,16;110:8;
21;163:7,14,15;167:2,3;	391:12	49:10;50:10;108:3,5;	153:20;180:24;184:17;
231:22;316:22;338:24;		1 60 10 207 12 272 2	107 11 207 22 210 12 17 10
	names (7)	168:19;307:13;373:3	187:11;305:23;310:12,17,18
357:10;358:10;375:25:			
357:10;358:10;375:25; 390:23;397:5	names (7) 218:11;224:16,17,24; 262:21;263:1;264:25	next (15) 120:2,19;135:17;185:3;	numbers (3) 9:24;171:14;198:11

0 oath (1) 290:21 object (8) 93:6;236:2;263:13; 333:15;338:6;382:15; 393:18,20 Objection (8) 43:16;71:22;98:10;242:18, 24;243:2,6;338:10 objections (1) 20:6 objective (1) 263:4 obligated (1) 246:1 observation (6) 70:12;218:22;239:2; 331:20:346:24.25 observations (2) 16:16;25:14 observe (2) 247:23;272:4 observed (8) 141:19;229:18;230:1,2; 249:10;260:18;272:8;314:24 obstruction (1) 345:13 Obtain (3) 250:18;272:21;273:2 obtained (2) 91:24;251:6 obvious (1) 182:22 obviously (3) 217:12;231:22;247:13 occasion (1) 86:5 occupation (2) 266:23;291:20 occur (2) 201:20;220:5 occurred (2) 232:23;314:4 occurring (1) 228:20 occurs (2) 302:15,16 o'clock (1) 27:25 October (3) 103:23;106:7;389:12 off (38) 40:1;49:3;51:5;53:21; 54:2;76:8;95:17;113:7; 119:17;138:3;145:13;162:1; 166:9;168:1,2;192:1;199:11; 229:12,13;245:24;246:5; 269:10;285:3;301:22;302:4, 10;307:19;330:12;331:9; 332:4;348:17,23;352:19;

```
374:16;386:18;393:6;397:9;
  403:20
offers (1)
  19:5
Office (5)
  7:4,8;8:5;191:22;389:14
Officer (290)
  5:9,17,23;7:3,6;8:21;9:5;
  10:5,7;11:3,15;12:7;13:3;
  14:15,17,22;15:19;16:14,23;
  17:16,19;18:2;19:17;20:14,
  25;21:3,7,13,15,25;22:11,18,
  23,25;23:5,7,15;24:2,20,23;
  25:1,4,15,17;26:5,10;34:8;
  38:16,21,24;39:20;40:3,13,
  16,25;41:6,9,13;43:18;
  45:25;49:1,13;51:14,17,20,
  22;56:22;57:1;59:12;65:12;
  71:23,24;72:3,9;75:2,5;80:7,
  10;81:11,14,16;83:19;89:24;
  90:3,7;92:18,22;93:11,15,20,
  23;94:1,20,23;95:1,4,8,13,
  15;96:10,12,14,23;97:2;98:1,
  6,11,13,18;108:13;111:10,
  13,16;114:1,5;115:6,13,16,
  25;128:8,11;130:6,12;132:9,
  13;133:1;153:11,14;155:23;
  156:3,6;160:14,18;163:8;
  176:19,24;177:3,6;178:4,14;
  179:1;184:6,9,25;189:3,7,9;
  190:10,15,19,25;191:4;
  207:20;208:24;209:9,11;
  219:16,20;236:16;239:21,
  24;262:8;263:16,20;264:17,
  24;265:6,11,15,24;266:3,11,
  15;273:23;276:1,4;277:16,
  19,23;278:1;282:18;284:19;
  286:20,23;287:18;288:15,18,
  20;289:23;290:1,4,8,15,20,
  25;291:3,23;295:17,19,22;
  318:2;319:4;322:23;324:25;
  325:2;327:7,10,14,22,24,25;
  328:2,15,18,22,25;329:24;
  330:1,11;338:11;339:2,25;
  340:4;347:6,9;348:9,12;
  351:4,10,12,16,19;352:6,11;
  355:13;359:17,21,23;
  361:13;363:6;364:1;365:11;
  366:4;367:2,5,8;368:19,22,
  24;369:1,9,14;377:25;378:5,
  7;379:3,9;381:12,14;383:5,
  14,17,20,23,25;384:4;388:3;
  396:22;397:1,2,4,7,10,13,16,
  21;398:5,8,10;399:6;400:17;
  404:17,20,24;405:1;407:2,7,
  9,12;408:16
officers (1)
  24:10
official (4)
  9:5;23:23;95:25;96:2
officially (1)
  310:2
often (3)
```

```
63:9;147:6;158:25
old (22)
  39:13:66:18:101:11:155:2.
  2;163:25;164:15;204:24;
  248:12;294:8;296:13;
  302:23;304:17,18;308:11;
  319:2;345:6,12;352:20;
  359:15;360:3;369:23
older (2)
  285:16;289:16
old-time (1)
  387:20
omission (1)
  67:15
omitted (2)
  19:8;67:13
once (4)
  63:11;80:11;115:10;231:3
one (213)
  8:23;16:9;18:19;24:10;
  30:13;31:16,17;37:6;41:9,
  22;43:4;48:15;53:1,2;54:19;
  56:1;58:6;59:10;63:24;65:6;
  66:1,6;69:9,9,17,19;73:17;
  76:13;77:25;78:1;79:7;
  83:15;85:21;87:16;93:2,18,
  19,20;94:16;100:24;101:2;
  102:1,1,20;103:15;108:19,
  23;109:20;110:15;111:6,22,
  25;113:1,2;114:13,13,17,18,
  19;118:7;123:9;125:5,17,18;
  126:6;128:20,20;132:5;
  134:21;135:19;136:1,5,9;
  141:1;143:24;144:20;145:3,
  10;148:16;149:23;152:3;
  154:8,21;155:15,17,21;
  159:8;161:11,12,14,18;
  164:18;166:3;167:19;168:7,
  13;170:12;173:14;174:14,
  16;175:22;176:10,10;
  184:20;185:18;188:14;
  189:11;190:6,13;197:10,15;
  202:16,17,23;204:4;205:14;
  207:23;208:19,19;213:4,23;
  216:25;224:21,21,22;
  231:22;232:3;235:9,12,17;
  238:2,8,19;239:1;246:12,19,
  24;247:11;249:23;254:5;
  255:7;259:13;261:23;
  262:11,11;263:2,7;265:14,
  25;269:1,8,10;273:1;282:1;
  289:13;293:6;295:17;
  296:13,14,19;300:2;302:2,9;
  305:23;310:15;314:17,22;
  315:1;317:10;318:18;
  320:21;332:22;336:2;
  338:16;340:21;341:12,12;
  344:21;345:19;354:9;
  357:10;360:25;362:18;
  365:15;367:12,12;368:16;
  371:22;372:3;376:23;
  377:10;378:3;379:23;
  384:25;391:19,22,22,24,24;
```

```
Recorded Hearing - Vol. I
                April 21, 2021
  393:1,1,3,9,10,11;397:2,5,
  19;401:13,14;403:3;407:11,
  24
one-and-a-half (1)
  54:15
ones (19)
  109:18,24;110:10,11,11;
  131:2;171:1,2;175:18;182:5,
  6,15,20;183:10,17,18;
  202:24;370:20;399:2
one's (9)
  52:4,4;126:8;254:6;
  258:15;377:11;379:7,8;
  393:11
ongoing (1)
  222:21
only (26)
  69:17;88:5;188:19;203:8;
  217:13;226:25;230:14;
  235:9,12;239:1;246:11;
  252:11;255:21;261:19;
  264:5;278:22;314:16,17,22;
  317:23;327:2;342:7;356:8;
  362:10;379:5;403:3
onto (2)
  49:18;304:19
oOo- (1)
  408:20
Oops (1)
  288:12
open (6)
  9:22;327:2;342:2,3;346:6;
  359:17
opening (2)
  24:5;346:5
operate (2)
  58:17;193:3
operation (2)
  17:24;28:20
operations (2)
  99:13,18
OPERATOR (1)
  330:8
opinion (30)
  15:16;100:14;105:3;
  129:24;130:1;131:12,17;
  132:7,18;142:1;168:15;
  212:23;272:14;275:24;
  277:1;311:24;312:10;
  330:22;331:5,14,15,16,19;
  332:3,4;333:5;339:4;346:18,
  23;383:10
opinions (8)
  109:2;114:11;118:25;
  122:18;124:15;126:18;
  127:19;331:15
opportunity (5)
  10:19;23:16;24:24;
  195:21;230:4
```

opposed (3)

opposite (5)

23:24;123:7;152:16

283:13;286:11;304:19;

350:24;387:16	275:21;276:14,19;281:12;	owned (18)	parsing (1)
option (2)	283:2,18;284:5;285:15;	29:8;30:12,12;58:7,9;63:7;	247:15
154:12,25	286:8;288:16;295:3;297:24;	85:24;87:1,5;92:2;100:21;	part (49)
options (8)	298:22;300:25;301:2,5,14,	101:16;122:20;293:4,6;	10:13;13:4;14:21;15:21;
154:6,8;228:25;259:4,8,	15;303:9,17;304:1,19;305:9;	372:4,17,19	22:4;33:19;35:14;47:11,16;
13;318:19;333:7	306:3;308:22;313:4;315:3,	owner (6)	56:1;60:8;67:7,9,9;77:17;
oral (1)	12;317:12;318:18;319:17,	30:11;66:5;85:10,16;86:1;	82:18;95:20;101:8,13,15;
372:11	24;322:9,16;323:1,17,18;	112:6	109:14;117:6;120:25;134:8
order (12)	324:8;325:12;326:9;331:2,	owners (4)	15;152:6;169:19;174:23;
157:19;201:19;214:20;	10;332:21;334:3;342:8,13;	66:25;87:16;91:20;210:14	187:14;199:9,15,15;218:25
215:1,2,12;239:13;264:1;	345:15;346:2;347:19,21;	owns (7)	228:18;231:2;232:15;
266:1;278:16;300:16;403:24	350:1,3,16;351:14;353:25;	110:8;181:21;185:18;	239:16;252:5;306:5;336:6;
ordered (1)	357:19,23;363:24,25;366:7,	199:12;273:15;292:3,21	345:9,16;352:22;363:4,5,8;
232:20	11;367:10;368:16;372:21;	D	367:12;395:14;397:23
orders (2)	373:4;374:5,15,15,17,18;	P	partial (7)
9:7;205:5	375:2,5,21;376:8,15,16,18,	7.67 (10)	199:16;205:24,25;206:4,5,
organized (1)	19;377:23;379:1,22,25;	PAGE (49)	7;211:13
59:21	380:4,7,25;382:23;383:9,11;	5:5;15:2;16:11,12;17:22;	Partially (2)
orient (2)	384:3;385:11;387:19;391:1,	19:7;32:23;33:1;34:1;35:22;	145:23;314:21
41:4;57:16	3;392:19;396:8;398:15,25;	65:7,9,14;72:22;79:13,14,16;	participate (9)
oriented (4)	399:12;400:1,2,2,9;408:10	101:17,18;106:16;107:6;	9:4;21:12;22:2,10,13,15,
41:17;248:23;249:4;	outlined (3)	112:19;122:3;140:19,21;	22;23:4;72:24
328:21	18:15;48:17;270:13	150:12;157:20;158:19;	participated (1)
orifice (2)	outside (1)	169:12;172:8,20,22;174:21;	260:25
261:19,23	76:10	184:16,17;185:3,3;199:5;	participation (1)
original (12)	oval (1)	206:23;208:7;210:2;250:17;	23:11
14:14;158:12;171:25;	393:10	296:17;335:13,23;336:1,2;	particular (9)
283:7,23;284:15,16;286:25;	over (58)	387:25;388:5	132:19;148:22;175:18;
287:25;288:9;348:5;371:18 original-looking (1)	41:22;42:10;45:10;47:4; 56:2;70:21;76:18;114:6;	pages (4)	198:10;208:6;230:3;247:15 259:22;371:5
289:13	150:21;153:7,22;154:16;	12:22;16:7;19:2;36:6 Pahsimoroi (1)	particularly (5)
originally (7)	160:13;165:10;168:12;	99:11	11:21;16:15;235:8;
65:18;74:15;276:6;289:9,	169:4;179:3;189:4;192:11;	paid (5)	262:22;342:24
10;387:6;391:19	199:22;216:11;232:8;	12:1,17;106:19,20;241:10	parties (14)
others (11)	233:21;246:13;247:14;	pain (1)	9:15,22;10:17,18;12:14;
131:1;188:19;190:7;	248:11;253:17;258:19;	306:4	14:2,9;22:4;23:16,19;
222:9;231:20;263:10,12;	260:22;262:1;267:3;277:13;	painfully (1)	122:21;198:2;287:20;404:21
317:4;318:4;330:10;403:4	280:24;288:1;296:22;	282:8	parts (2)
otherwise (5)	297:11;298:15,24;305:13;	pair (1)	237:24;312:18
102:25;111:19;165:25;	307:23;313:14;318:19;	213:13	party (3)
326:4;339:4	325:11;329:22;344:7;	paper (3)	13:22;246:6,10
ours (4)	345:15;346:4,15;347:21;	195:11;333:22;384:16	pass (2)
303:20;343:22;401:24;	350:6;370:17;388:16;392:8,	papers (1)	77:14;105:14
402:8	10,12;401:2,4;408:14	83:19	passed (1)
ourselves (1)	overflow (2)	paragraph (23)	294:6
171:20	287:3;297:9	32:25;37:7,8;104:10,12,	passing (5)
out (174)	overgrown (1)	19;121:6;150:12;173:6;	77:17;92:8;314:16;347:14,
24:19;31:8;40:4,22;41:2;	345:12	185:4;195:24;196:9;199:7;	15
42:22;45:24,25;46:1,9;	overlaid (1)	200:16;201:5,12;222:20;	past (11)
59:15;62:15;70:24;71:9;	121:4	231:6;232:15;234:23;	9:7;18:10;78:9;121:12;
72:25;73:25;74:17,21;78:12;	overlap (1)	255:15;257:8;260:5	226:18;243:15;317:21;
80:5;86:5,10;111:18;113:6;	110:14	paragraphs (1)	344:1;349:7;403:20;404:12
116:1;120:3;130:17;131:9;	overlapped (2)	128:9	pasture (8)
145:11;149:22;152:19;	110:18,23	parallel (1)	28:21,22;45:21;46:3,7;
154:3;161:2;170:2,9;173:15;	overlay (1)	81:1	53:13;297:20;323:18
176:11;179:17;201:10;	119:20	paralleling (1)	path (5)
206:23,25;207:3;208:4;	oversight (4)	379:16	231:7;258:4;358:8;
210:10,12;212:5;213:24;	19:5;192:18,18,19	parents (1)	386:11;397:14
216:25;227:20,20;228:13;	own (16)	87:1	Paul (4)
232:12,16;233:4;234:1,19;	22:5;35:10;58:17;70:11;	park (2)	267:3,8;293:19;303:18
238:1;243:12;244:6;248:15;	93:14;158:2;193:4,5;233:22;	309:17,21	Paula (1)
249:4,4,15;250:2;252:2,23;	244:10;263:11;267:17;	Parlee (4)	335:7
255:3,25;259:6;266:1;271:4;	328:21;331:15;339:4;370:22	85:17,19;86:2;87:4	pause (1)

95:12
pave (1)
287:16
pay (6) 267:14,17,17;366:19,21,23
people (17)
20:11;21:21;69:10;74:10;
144:8;147:13;185:20,20;
202:9;205:11;221:9;224:17; 230:9;237:23;302:24;307:2;
343:1
per (4)
77:12;106:24;107:7,10 perceive (1)
236:7
percent (2)
28:16;53:24
perfect (1) 162:16
perhaps (7)
144:2;154:17;172:18;
173:9;223:14;229:16;260:23 period (3)
56:6;153:1;195:19
periods (1)
152:24
permit (3) 155:4;259:6;375:22
person (4)
22:1;54:23;308:8;400:20
personally (4) 78:25;139:8;340:12;
76:23;139:8;340:12; 366:23
persuasive (2)
20:14;104:22
pertaining (1) 246:4
pertinent (1)
16:13
peters (1) 298:11
Peterson (1)
293:21
phone (7)
8:9;73:14,18;115:18; 274:10,12;382:7
photo (8)
160:6,7,19;163:2;222:11;
270:12;285:4,16
photograph (2) 389:13,14
photography (1)
159:1
photos (7) 83:14;104:13;115:3;
162:20;163:5;295:19;358:16
phrase (1)
242:18
phraseology (1) 243:7
phrasing (1)
242:24
physical (5)

```
104:24;143:4,11,20;
  179:17
physically (7)
  61:2,4,10;71:6;143:8;
  173:16;395:11
pick (3)
  90:13;299:4;302:5
picked (1)
  301:17
picking (2)
  299:6;329:8
picks (5)
  298:13;299:1;326:21;
  328:13;330:4
pickup (2)
  29:9;58:22
picture (4)
  295:23;296:6;299:16,18
piddly (1)
  305:8
piece (5)
  56:3;86:11,11;203:14,15
pieces (2)
  177:15;202:9
piggyback (1)
  285:3
piggybacked (1)
  155:25
piled (1)
  327:1
pinpoint (1)
  161:9
pinpointed (1)
  140:9
pins (1)
  159:22
pipe (1)
  307:24
pipeline (4)
  285:6;296:23;308:4;
  342:17
pipes (1)
  179:25
pit (1)
  302:20
pivot (24)
  296:25;297:1,5;300:14;
  301:1,9,10,16,20,22;302:4;
  309:8;324:3,7,15;325:5,20,
  21;329:14,19;342:18;
  374:23;375:3,9
pivots (2)
  291:25;373:3
place (71)
  38:4;58:12,14,15;59:19;
  67:1;69:7;86:8,12,18,20;
  87:1;92:24;93:13;104:18;
  110:23;115:2;116:8;124:21;
  125:18,21,24,24;126:2,7,9,
  10,13;140:7;147:17,22:
  166:2;176:3;182:21;200:22;
  202:4:204:20:215:11:
  226:23;233:17;260:25;
```

```
274:17;275:3,14,25;276:10;
  277:7;292:24;297:19;299:3;
  309:18,22;317:21;323:15;
  325:15;326:19;327:2;328:5;
  329:2,4;330:6,16;344:13;
  345:10;346:2;354:5;355:5,8;
  358:23;360:23;370:15
placed (4)
  102:10;159:22;160:1;
  172:6
places (17)
  41:2;78:21;101:1;104:14;
  110:18;129:12;160:22,22,
  25;161:3,5;279:16;307:16;
  317:18;357:18;358:3,4
Plain (2)
  192:4;336:15
plaintiffs (1)
  198:4
planet (1)
  179:19
plat (2)
  389:11,18
plate (1)
  342:6
Platted (1)
  389:16
play (2)
  132:14;243:17
played (2)
  121:4;261:21
please (38)
  26:19;52:6,21;57:10;
  60:22;97:6;98:24;100:20;
  102:5;103:8;109:1;114:10;
  118:24;121:6;122:17;
  124:14;126:17;127:23;
  128:16;132:24;143:16;
  173:7;184:16;191:9;194:13,
  18;227:17;228:2,3;243:16;
  266:19;291:9;330:10;
  352:15;369:18;371:7;383:8;
  391:10
plumb (1)
  374:8
PO (1)
  369:20
Pocatello (1)
  352:18
point (204)
  13:7;16:15;17:6;19:7;
  23:2;41:2,9;48:14;52:3;
  54:20;65:19;66:1,4,6;67:1,
  12;68:24;69:1,17,18;70:15,
  23,23;71:7,11,20;72:2;
  80:13;83:22;86:7;101:2,3;
  102:12,16,18,24;103:10,14;
  104:24;105:5;106:13;108:4,
  5,10;109:12;110:1;111:24;
  117:14;120:13,17;121:10,13,
  21,25;122:14;125:16,19,20;
  126:4:128:19.19:129:3.13:
  131:6,12,21;132:2,11,12;
```

```
138:12;139:10,11,22,24;
  141:16:143:4:144:21,23;
  146:2;147:11,16,22,24;
  149:4,10:150:2,18,20:151:2,
  4,14;153:24;154:9,10,13,13,
  14,16,21,24;155:2,12,21;
  157:22;158:6,10;164:12,17;
  166:3;167:15,18;169:1;
  173:14,17;175:25;176:7,13;
  180:10,11;183:2,5,8,12,14,
  24;184:13;195:6;200:22;
  202:3;218:19;221:18;222:2;
  224:25;225:17;226:9;228:8;
  234:5;238:2;244:11;245:5;
  247:25;249:25;250:19;
  251:1,12;256:21;259:11;
  264:3;269:24;272:3,7;273:2;
  274:13,18;281:2;283:16;
  289:12;295:3;296:25;297:1,
  1,14;302:17,22;304:6;
  305:19;306:3;309:3;312:3;
  313:13;314:14,17,19,22,25;
  315:6,7,8;316:15,22;318:11;
  326:25;331:2;332:22;333:2;
  336:11,19,22;338:12;339:6,
  12;341:16;344:22;346:15,
  19;348:14;350:19;363:24,
  25;380:8;385:11;392:18;
  395:19;401:24
pointed (5)
  161:2;332:21;342:12;
  387:19:396:8
pointer (4)
  41:3,10,12;46:5
pointing (9)
  80:9;116:1;118:14;
  178:24;295:25;327:18;
  365:6,21;366:2
points (58)
  13:2;38:3;45:15;61:19;
  62:21;70:3;79:13,18;81:9;
  87:9;104:23;110:19;114:12;
  115:2;116:3,6,9,17;117:12;
  119:13;120:3,5,12,15;121:3,
  15;130:18,22,25;135:3,8;
  144:16;147:14;149:17,25;
  154:22;162:20;170:10;
  173:3,11,11;175:20;179:21;
  180:7;190:2,3;221:23;
  230:16;235:24;238:13;
  249:21,23;267:21;284:20;
  293:11;323:20;393:23;405:6
policy (1)
  36:7
poorly (1)
  405:15
popular (1)
  374:7
Porcupine (13)
  42:2;64:15;119:5;133:21;
  138:3,8;178:25;179:4;194:6;
  281:20;309:19;311:21;344:4
```

portion (5)

10:7;172:9,12;362:13; 366:2 portions (1) 10:9 position (7) 71:9,19;97:11;168:11; 169:3;191:20;267:2 positioned (1) 226:10 positions (1) 27:17 positive (2) 173:21;249:22 possession (2) 38:8;143:3 possibility (1) 155:8 possible (2) 202:2;358:12 Possibly (6) 73:20;79:10;139:6;155:4, 5;314:20 potential (7) 7:14,16;231:8;258:5; 260:5;263:2;265:1 potentially (9) 23:2;60:20;147:14; 168:17;169:8;173:14;263:7; 307:10;318:14 potentials (1) 16:5 pouring (1) 308:23 Power (3) 108:18,21;112:11 pre (1) 147:11 precise (2) 81:15;160:20 predecessors (1) 125:19 predict (1) 235:21 pre-hearing (1) 34:8 pre-Kauer (1) 372:12 preliminarily (2) 306:13,18 premise (2) 132:20;133:3 prepare (1) 159:7 prepared (6) 10:15;20:2;64:24;130:8; 163:1;201:7 preparing (1) 116:16 presence (2) 181:3;222:13 Present (13) 8:6:20:9:22:10.21:24:6: 70:6,9;75:9;107:22,25;

116:4:200:23:220:1 presentation (1) 21:4 presented (2) 19:25:143:18 presenting (1) 17:7 presently (1) 183:2 press (1) 330:10 pressurized (1) 301:16 pressurizes (1) 342:18 pretty (33) 59:7;61:14;75:16;84:16, 17;119:24;153:3;160:4; 192:2;198:12;219:8;222:5; 253:18;279:23;280:20,21; 281:18,19;283:24;313:6,6; 326:6;343:10;354:2,24; 356:1,12;357:17;364:23; 365:11;375:12;388:16; 398:23 prevailed (1) 372:10 prevent (3) 10:8;128:17;357:3 previous (4) 30:14;69:10;157:16;407:3 previously (7) 88:25:97:22:103:12: 127:17;168:20;202:5;220:10 Price (1) 74:17 prick (1) 314:21 primarily (1) 56:13 primary (2) 69:6;235:18 principle (2) 231:10;258:6 printed (1) 207:8 prior (34) 9:15;10:5;20:20;30:10; 36:11;49:24;53:14;66:5; 69:13;77:9;85:15;98:1; 105:22;129:17;158:11; 174:11;181:7;191:24; 268:14;293:22;294:22; 296:14;303:17;340:19,24; 345:25,25;372:15;377:19, 22;394:9;401:15;404:4,5 priorities (1)

245:19

priority (35)

38:3;61:11;100:25;101:9,

11;108:12;109:18;110:16,

22:111:8:112:24:113:8:

123:23;124:18;181:24;

182:20;185:10,12;187:6,8, 12;188:17;203:4;206:9,11, 15:209:24.25:211:18:227:1. 20;228:11,17;267:22;336:25 private (10) 13:15,21;14:6,9;15:22; 18:17,22;246:2,3;406:20 privy (1) 86:13 pro (12) 113:1,11,12;124:8,19; 171:16;181:3,8,22;182:2; 184:3;197:4 probably (62) 38:2,9;46:2;57:23;59:23, 24;69:5,14;75:18;76:4,7,17; 77:24;78:21;79:22;80:5; 81:2;84:24;88:2,3;90:20; 91:5;122:10;148:6;159:6; 166:4;172:2;201:18;230:7, 10;245:24;252:13;258:23; 259:2;260:10;284:2;289:16; 296:25;297:1;310:19; 311:14;346:2;349:4,4; 357:19;359:12;361:23; 363:24;368:1;371:15; 378:15,22,24;393:4,16; 395:18;399:17,19,22,23,23; 401:10 problem (9) 49:4,8;145:12;209:16; 318:10;345:16;385:17; 408:12.12 problems (2) 84:25;308:24 Procedure (5) 8:2;9:13;20:12,16;23:18 proceed (4) 26:11;98:13;116:2;338:19 proceeding (5) 30:1;269:9;318:18; 332:23;339:2 process (5) 74:1;235:20;338:8; 339:17;370:16 production (1) 31:8 professional (2) 97:20;390:5 profile (2) 388:25;389:1 profiles (3) 388:20;389:21;395:3 program (1) 151:20 programs (1) 40:6 project (1) 97:12 promise (1) 321:17 prone (1) 231:19

proof (4) 205:24,25;206:3,21 proper (7) 75:18:181:12:194:6; 201:23,24;202:1;254:21 properly (6) 11:1,18,19;12:3;219:11; 241:16 property (95) 26:24;28:6,10,19;29:5,8; 30:11,12;31:4;35:10,20,23; 48:1,6,7,9,16,17;49:6,19; 53:4:56:4:57:19:58:8,9,18; 59:15;63:7;78:12;85:10,12, 13,16,24;86:3;87:4;91:18, 19;100:1;143:3;166:8,18,20; 167:9;189:24;219:4;237:13; 252:16;270:4,11,14,15; 271:25;292:19,21;293:4,8; 294:12,18,20;295:3;296:2; 304:4;311:18;312:19,22,25; 313:4;353:18,23;355:2,8; 363:20;370:10;371:4,9,14; 372:5,17,19,22;373:2,13; 374:3;376:1,3;377:8;379:23; 394:5,14,14,18;396:20; 400:22;402:2 proportionately (1) 197:2 proposal (2) 195:21;336:3 proposed (6) 9:16.17:10:10:157:7: 211:2;220:24 proposes (1) 336:7 proposing (2) 74:13:124:24 proposition (1) 13:14 prorated (7) 113:3;171:21;185:11; 186:1,22;187:7;402:24 prorating (4) 109:21;188:3;199:8,17 protect (3) 235:2,18;405:19 protected (1) 337:6 protecting (1) 385:21 protest (10) 79:8;108:2,9,18,22;112:9; 255:22;291:17;318:5,7 protestant (10) 8:15,18,24;10:13;21:23; 70:18;93:13;95:19;235:10, 12 Protestants (17) 8:10,24;20:9;89:25; 101:17;121:9;156:19;

173:13:222:20:223:3.6:

265:18,22;266:7;290:11;

352:2;369:5 protestants' (1) 101:19 protested (5) 7:23;28:2,3;107:17;108:6 protesters (1) 134:5 protests (7) 34:15,18;70:20;107:18; 108:14;235:8,11 provide (15) 10:17,18,19;18:12;24:5,5; 25:13;62:15;100:14;151:21; 193:8;240:12;251:19; 403:21.24 provided (7) 12:4;14:25;104:8,22; 114:14;125:7;134:8 provides (5) 17:15,23;111:8;115:1,18 providing (7) 11:22;104:7;109:8;127:3; 142:18;169:24;396:25 provision (1) 203:7 provisions (4) 7:25;202:19;211:20;214:2 proximity (1) 52:9 public (5) 12:13,19;14:7;18:15; 406:20 published (1) 384:15 **pull** (4) 117:6;288:15;292:17; 319:15 pulled (6) 39:20;119:17,23;139:21; 302:11:350:6 pulling (2) 112:7;298:6 **pump** (5) 301:15,19;342:17,19,22 pumped (1) 301:12 purchase (1) 58:14 purchased (2) 35:20;59:15 purpose (9) 7:20;178:11;183:6,7; 210:18;246:5;335:16;336:2; 407:4 purposes (2) 361:24;368:18 pursuant (1) 107:8 pursue (6) 259:4,9;318:19,23;338:3, 15 pursuing (3) 259:13;333:1,6

push (1) 376:15 pushed (7) 166:9;167:25;168:2; 288:12;324:13;376:16; 377:23 pushes (2) 345:14,15 put (65) 53:21;54:4;68:14;75:22; 80:3;87:22;116:10;119:8; 139:21;154:23;157:7; 163:20,25;170:13;171:6; 173:7;179:14;183:20; 186:13;193:2;216:8,25; 217:25;232:7,20;235:25; 236:10;258:19;259:11; 276:6,14;299:11;300:15; 301:13,16;303:6,24,24; 307:13;313:13;326:5; 338:23;342:6;346:9,12,13, 14;373:3;374:17;376:9,16, 21,22;377:23;378:8,11,14; 379:22;384:20,24;391:18; 392:20,21;393:13;396:12 **puts** (1) 163:16 putting (7) 81:25;117:9;126:4;182:3; 329:9;340:21;390:7 puzzled (1) 238:17 Q

quad (7) 103:1,2;119:15;149:9; 253:17,19;263:6 quadrangle (4) 102:11:121:17:140:22; 177:19 qualified (2) 97:22;259:16 quantified (1) 61:6 quantity (4) 67:1;132:21;133:3;310:15 quarter (9) 53:9;179:12,13,13;180:20, 20;279:2;298:13;305:13 quarter-quarter (7) 103:18;117:17,18,20; 163:10;164:8;253:20 quick (6) 31:14;207:17;243:15; 259:14;296:17;377:8 quickly (3) 31:13;127:18;282:20 quiet (3) 406:18,21,24 quit (1) 156:2 **quite** (11)

287:14;315:18;373:17;394:4 quote/unquote (3) 75:18;243:1,12 Ouotes (1) 108:3 R rain (2) 76:14;77:25 raise (1) 28:18 raised (9) 19:18;20:7;34:5;195:2; 303:19;353:1,25;355:3; 356:12 ramped (1) 256:9 ran (6) 30:15:60:15:314:7; 356:10;366:11;370:15 **Ranch (32)** 8:11,20,21;10:14;78:14; 107:19,19;108:7,17,21; 111:6,23;112:3,10,14;135:3; 265:20;266:8;280:19; 290:12;291:14;292:2,3,21; 318:11;352:3;369:6;370:15, 17;376:22;385:19;397:25 rancher (2) 266:24;291:21 ranches (2) 293:5;388:10 ranching (2) 27:4,6 Rand (1) 91:21 range (2) 101:9:379:20 Rangen (2) 11:9;17:9 ranging (1) 101:11 rarely (1) 205:12 rata (12) 113:1,11,12;124:8,19; 171:16;181:3,8,22;182:2; 184:3;197:4 rate (5) 107:1;310:17;336:12,12; 401:18 rather (2) 56:6;328:15 rational (1) 385:20 re- (1) 94:17 reached (2) 175:9;336:18 reaches (4)

127:8;192:11,22;237:6;

241:16;257:19;278:15;

119:3;121:14;219:4; 234:20 read (17) 108:14;111:11,19;140:16; 173:6;185:4,5,13;186:3,9; 221:2;222:25;224:18;388:8; 389:10;395:4,25 reads (1) 224:21 ready (1) 130:13 real (14) 47:22;54:5;70:9;212:5; 216:7;243:15;248:12; 261:24;262:2;296:17;374:7; 377:7:389:8:402:7 realization (1) 182:23 realized (1) 228:19 really (62) 7:18;9:4;24:16;34:20; 50:2;51:1;53:20;61:20;63:4, 17;76:5,5;86:13;88:13;89:1; 126:7;129:7;159:5;161:23; 175:8;193:10;204:12; 207:17;212:3;216:2,10; 217:16;218:18;221:23; 225:2;226:11;227:12;233:2, 15,25;234:14;236:8;237:6; 240:15,22;242:1;244:15; 247:15;248:6;251:1,2,7; 253:25:257:25:259:25: 261:20;262:3;264:14;279:4; 289:7;305:2;326:15;332:10, 17;343:17;380:2;385:8 realtor (1) 59:17 reason (14) 13:23;27:23;140:2; 143:15;146:4;171:5;182:8; 214:4;318:17;337:23; 379:19;405:18;406:4,22 reasoning (1) 380:18 reasons (4) 182:14;204:3;235:18; 353:23 recall (43) 25:9;31:16;34:20,23;35:6; 63:19;73:2,16,21,22;74:16; 76:7;84:1;85:8,20,20;88:10; 112:7;115:8;123:17;142:8; 174:14;175:12;212:21; 245:4,15;261:12;262:1; 264:11;265:8;270:17; 272:23;333:11;337:7;356:5, 22;357:12;361:25;362:6; 364:16;366:8;375:14;392:24 recalling (1) 85:19 recaptured (1)

325:19

receipt (1)	243:17	refuted (1)	34:19;38:7;88:23;102:20;
335:3	recording (9)	249:11	129:6;175:3,4;217:13;
receive (4)	7:11,18;49:9,11;95:22,25,	regard (2)	244:22;256:1;261:16;
7:21;72:24;267:19;308:13	25;96:2,6	256:15;396:7	272:25;301:13;315:14;
received (11)	records (12)	regarding (2)	331:3;334:1;346:21;356:7;
31:22;35:19;37:23;66:13;	9:9,10;37:20,21,22;38:10;	15:4;103:13	
			358:6,18;360:7,9;361:21,22;
72:20;106:6;244:4;271:20;	66:20;93:7;126:25;127:1,10,	regime (4)	364:22;366:14,17;374:5,13;
303:21;406:3,8	14	146:5;153:5;173:18;232:2	390:18,20;393:2;402:3
receiving (2)	recoup (1)	regimes (4)	remind (1)
67:19;87:15	259:12	141:25;144:2;150:6;	203:16
recent (2)	Recross-Examination (5)	152:11	remnant (1)
18:10;177:18	5:11;90:10;184:11;	region (1)	312:25
recently (4)	189:13;287:23	195:18	remotely (1)
11:10;99:16;109:10;	red (10)	Regional (1)	94:14
349:24	16:21;48:9,14;94:2;102:9,	7:4	remove (1)
recess (4)	12;272:6;364:6;386:3,8	registered (3)	125:1
95:14;177:5;265:13;	Reddington (2)	389:23;390:6,7	removed (2)
351:18	198:3;204:24	regular (2)	239:5;396:15
reckon (1)	Redirect (6)	264:21,22	rendering (1)
376:25	5:10;82:12;176:21;	regulate (2)	346:23
recognize (13)	177:13;262:14;285:1	322:21;401:17	repeat (1)
31:15;33:22;50:15;51:24;	re-diversion (1)	regulated (1)	52:6
55:11;203:11;206:20;210:3;	408:9	404:11	rephrase (3)
246:14;271:19;285:18,23;	reduce (1)	regulation (1)	60:22;276:1;333:17
371:5	197:2	402:23	replaced (4)
			296:14;378:1;379:1;
recognizes (1)	reduction (2)	regulations (1)	
136:22	132:21;133:3	105:17	396:16
recollect (4)	refer (6)	rehashing (1)	reply (1)
354:10;356:2;368:2,4	39:13;43:20;200:24;	164:15	14:12
re-collect (1)	201:3;273:12;374:21	reinstate (1)	report (49)
345:17	reference (21)	44:25	12:10,10;15:2,7;17:22;
recollection (16)	12:9;13:12;16:2;36:3,12,	reiterate (3)	19:3,5;64:24;65:2,17;67:11;
67:5;86:19;251:14;	20;37:10,14;38:12;112:20;	14:14;217:11;373:18	72:14,24;81:10;100:7,17;
308:16;360:1,19;366:13;	119:9;187:10;188:8,14,15;	related (4)	101:13,15;102:2;106:16;
367:13;368:7,12;379:16;	196:9;214:7;238:12;257:21;	10:20;20:6;241:11;353:9	107:16;114:9;115:11;
382:19,25;383:2,13,18	302:17,22		
		relates (2)	118:24;123:18;126:17;
recollections (2)	referenced (3)	16:14;233:13	127:5;130:20,24;134:3,9;
360:5;367:11	17:10;151:8;235:12	relating (2)	148:19;150:11;151:18;
recommendation (4)	references (5)	15:13;237:12	157:19;158:19;162:5;
201:14;206:23;210:23;	34:24;35:13;36:2;211:6;	relation (3)	169:12;189:24;205:25;
211:2	365:14	53:7;112:18;393:22	206:3,22,25;207:8;209:7;
recommendations (6)	referencing (2)	relationship (2)	273:10,13,18;381:2
116:16;125:3,9;128:15;	205:21;382:1	17:25;240:24	reporting (1)
210:12,15	referred (6)	relevance (3)	126:21
reconciled (1)	42:14;55:17;72:11;	18:7,19;20:6	reports (15)
63:6	172:10;375:12;379:12	relevant (8)	9:9;11:23,25;12:3,5,16,18;
reconnaissance (1)	referring (15)	9:8,11;15:12;16:6;17:15;	17:8;19:14;34:10,12;126:20;
220:8	18:23;52:23;93:2;151:25;	18:24;19:22,24	127:3,11;205:24
reconnect (2)	172:8;186:8,9;225:4;232:19;	relied (1)	represent (4)
155:1,9	236:24,25;237:7;250:4;	147:21	207:2;265:19;270:13;
record (38)	255:23;354:8	rely (1)	335:2
7:10,17;9:19;10:1,23;	refers (1)	146:16	representation (1)
20:13,19,25;21:9,16;22:7,17;	15:5	remain (1)	208:8
23:13;26:20;43:18;48:8;	refill (1)	232:16	represented (5)
49:2,3;68:7;80:8;81:19;	11:12	remains (3)	8:12;65:16;156:18;
95:15,17;98:14;103:13,14,	reflect (6)	77:4,5;316:21	237:15;339:19
21;177:7;191:10;265:16;	349:5;368:6;381:1,6,8,10	remeasurement (1)	representing (5)
266:20;273:13;291:10;	reflected (3)	251:10	209:22;238:14;241:19;
351:20;352:16;368:6;	199:10,16;381:4	remedies (1)	265:19;355:19
369:19;372:10	reflection (1)	154:17	represents (1)
recorded (3)	258:13	remedy (2)	102:12
54:16;127:1,15	refresh (1)	154:7;333:1	request (3)
recorder (1)	108:15	remember (33)	44:20,21;299:11

requesting (1) 10:6 requests (1) 247:4 require (4) 9:13;155:3,20;214:23 required (1) 224:13 requirement (3) 214:14,17;233:9 requirements (2) 232:17;233:5 res (2) 405:22,24 research (1) 380:25 reserve (3) 25:8;239:17;265:7 reservoirs (1) 11:12 residence (1) 58:13 resign (1) 267:11 resistance (1) 358:8 resolve (4) 241:23,23;318:5,6 resolved (1) 309:6 Resources (15) 7:5;91:25;99:16,19; 116:25;117:10;133:23; 136:22;145:11;147:20; 162:10;169:20;191:19; 224:7;241:17 Resources' (1) 119:25 respect (4) 149:23;151:9;237:8,16 respective (2) 104:14;186:1 respond (1) 243:3 responded (1) 17:11 responds (1) 247:9 response (6) 10:16;11:1,5,17;14:12; 19:20 responses (3) 10:18;19:11;63:20 responsibility (2) 154:18;241:13 responsible (1) 258:15 responsive (2) 14:12;19:13 rest (12) 135:25;165:4;180:5; 199:10:237:17:309:9: 315:10;342:8;376:3;396:7;

402:13:403:12 restate (2) 10:21:29:21 restoration-type (1) 99:4 restoring (1) 74:11 result (3) 125:12;271:23,24 resulted (1) 105:3 resulting (1) 203:24 results (2) 175:6;314:1 resumption (1) 204:10 retained (2) 12:1;99:23 retired (1) 310:23 retrospect (1) 237:7 returned (1) 95:16 review (10) 100:11;104:5,7;118:2; 125:25;148:23;157:2; 210:14;221:4,13 reviewed (11) 9:16,16;10:17;19:18,21; 70:20;127:10;146:10; 147:14;194:25;212:25 **RGIS** (1) 40:6 **RGS** (1) 116:19 rid (1) 137:2 ride (4) 29:10;58:22;309:22,25 **ridge (21)** 230:22;300:19,25;305:12, 14;306:25;313:7;324:11; 325:8,9;326:25;343:11,19, 25;344:11;368:11;386:3,8, 12,22;387:2 ridges (3) 230:24;231:1;330:15 **Right (462)** 8:21;9:9;13:17,20;14:2; 16:9;19:8;21:24;25:8;27:16; 33:11;34:14;35:1;36:5; 37:10,16;39:6,7,7,8,10,14; 40:7,23,23;41:25;42:5,11; 43:11,14;44:1;45:3,3;46:2,5, 6,11,12;47:4,10,11;48:6,10, 10,19;50:12,25,25;51:16,19; 52:16;55:16;56:11;59:2,3,3, 9,10,13,22;61:8;62:2;63:22; 64:19;66:20;67:10,10;68:8;

79:19;82:21;83:18;84:9,12; 85:3;87:21;89:3;90:13;92:5, 6,11,14;93:4,7;95:6,8;97:23; 100:6;101:6;103:11;104:12, 19;106:15;107:7,11,24; 109:8,8,13,19,22;110:16,22; 112:23,24,25;113:6,6; 118:23;119:6,11;120:6,15; 121:1;122:4;123:1,12,18; 124:22,25;126:2,13,16,24, 25;127:9,22;133:18,24; 134:1;135:17;136:3,8,11,12, 15,17;137:1,22;138:6,6,16; 139:3,20,21;140:22;141:12; 142:25;144:9,18,19,22; 145:8,14,15,21;146:6,11,13, 18,25;148:16;149:6;151:1, 18;156:16;157:10,23; 158:15;159:9,10,11;160:18; 161:7;164:1,1;168:5;169:2, 18;170:5,6;172:3;173:10,16; 176:8,16,17;177:3;178:3; 179:5,24;180:6,11;184:15, 18,21;185:10,10;186:6,10, 14,24;187:1,8,11;188:3,9; 192:9,15;194:6;195:15; 198:10;199:6;200:8,9,11,14; 202:25;203:2,15,23;204:7, 11;205:21;206:2,12,14,21; 207:12;209:17,20,22;210:14, 22;211:15,23;213:13,16; 214:1,5,9;217:25;218:5,10; 221:25:222:14:223:23.25: 224:1,9,11,14,15;225:3,14, 19;226:5,10;227:4,9;228:8, 11,21;229:10;231:13;232:5, 24;237:15;238:18,18;239:7, 17;241:3;243:16;245:5; 246:12;247:7;248:18; 249:16;252:21,24;253:1,1,4, 4,5,10,21;254:10;256:21; 259:11;261:13;263:23,24; 265:7,14,22;268:9;269:19; 270:18,19,20,22;271:17; 272:7;273:14,15,16;276:7,8, 11,12;277:15;283:4,5; 284:14;285:6;286:9,13; 287:5,7,13;290:25;292:9,25; 293:1,10;295:12;296:7,12; 297:2,8,9,19;298:6,7;299:12, 14;302:9,13;303:4;305:3,17; 306:6;308:21;311:20;312:3; 313:9;315:5,22;316:12,20; 317:25;320:7;321:18,20,23; 322:7,18;324:8,13;325:7,20; 326:23,25;327:6,8;328:25; 329:11;330:20;331:16,24; 332:11,18;333:10;334:18, 22;335:3,10,23;336:8,19,23; 337:6,20;338:22;339:9; 342:2,19,23;344:20;345:3,6, 7.8:350:23.24:351:4:357:7.8. 24,25;358:24;359:17;361:3;

362:17,18,19,20,21;364:5, 11;365:22;366:3,4;368:3; 375:20:379:20.21:380:13: 382:8;383:1,22;386:18; 389:24,25;390:9,10,14; 391:7,8,13;392:9,14;393:2, 14;394:7,7,9,15,24;395:9; 396:12;401:19;402:1,1; 403:19;404:8,25;405:8,9; 407:5;408:4 rightfully (1) 406:16 right-hand (7) 344:25;364:10;386:17; 387:1,3,12;389:7 **rights (220)** 13:10;14:3,8;15:4;17:20, 25;18:1;36:15,19;37:24; 39:13;43:16,25;59:18;60:9; 61:2,11,16;62:2,16;63:15; 66:25;67:3,4,6;68:7;71:10, 17;72:7;77:23,23;89:1; 90:18;93:5;100:13,19,21,23, 25;101:16,18,19;103:5,16; 104:13,17,17,21;105:13; 106:14,24;107:3,11;108:11; 109:4,4,15,16,21,23;110:7,8, 13,24,25;111:2,6,18,24; 112:4,6,8,17;113:5,7,8,9,13; 114:6;120:7;122:20;124:1, 16;125:15;127:4,14;132:21; 133:4:134:4,8,11,14,16; 135:18,19;136:23;137:15; 142:2;144:25;145:4,17; 153:19;155:13;156:25; 157:4,8;168:16,21;169:8,9; 170:20,25;171:6,6,13,17,23, 24;172:6;181:10,12,14,21, 23,25;182:4,8,11,19,23,24; 183:3,6,9,16,20,25;184:2; 185:9,11,16,25,25;186:20, 21,22,23;187:5,6,7;188:17, 21;194:4;195:7;196:10,12, 14,21,23,25;198:19;199:24; 202:2;209:8;215:4;218:5,14; 219:1;220:10;224:20;225:6, 8,10;226:4;231:10;232:1,3; 235:18;245:14;246:5;258:6; 267:24;268:18;269:8;280:4; 292:6;295:10;301:11;312:5; 315:4;316:19;318:3,4; 329:15:332:17:337:3; 338:16,20;339:13,18;350:13, 16;370:25;371:1;401:6,10; 402:10,18;403:2,3,9,16,17, 18,23,25;404:10,11,12; 406:12 rights' (2) 144:11,14 right's (3) 126:12;225:18;255:6 rise (1)

69:2:70:14.24:72:16:73:11.

11;75:24;77:14,21;78:13;

343:9

River (19)	Rule (6)	131:9,11;144:3;151:1;	152:24
67:22;68:14;79:2,2,4,5;	11:4;17:3,8,20;20:15;	164:16;166:12;173:20;	seat (7)
99:3,11,20;110:9;158:8,14;	243:6	217:7;249:12,18;332:5;	26:10;97:2;266:15;306:9;
206:1;209:20;210:13;214:7;	Rules (9)	363:14;396:2	328:16;352:11;369:14
224:5;277:13;333:19 road (15)	8:2;9:13;11:6;20:12,16; 23:17;224:13;242:23;262:22	Saxon (1) 117:10	second (28) 25:6;31:17;32:23,25;34:1;
56:2,3;161:4;179:23,24;	ruling (1)	saying (47)	35:22;68:10;69:19;80:17;
231:16;249:9,18;252:25;	14:13	18:22;22:21;44:7;45:4;	106:24;112:19;184:23;
266:22;287:7,10;298:24;	rulings (1)	46:11;55:2,21,23;89:16;	187:14;196:1,8;202:3;212:2
309:18,23	34:8	91:10;92:12;94:11;104:16;	220:24;250:22;260:3;261:5
roadmap (1)	run (16)	164:19,21,25;165:16,20,22;	8;335:13;338:12;348:3;
24:6	52:21;54:17;78:10;84:25;	166:19;167:23;169:2;	388:9;399:21,22
roam (1)	190:16;204:14;243:15;	171:10;172:13;173:4;	secretary (2)
353:25	301:19,20;305:12;306:22,	186:19;189:25;214:4;228:7;	66:16;112:15
roamed (1)	24;309:8;357:2,5;374:1	246:13,15;248:4;275:6;	section (54)
354:1	running (11)	289:7;308:2;314:22;325:15;	29:15,18;42:8;45:13;
Rob (26)	46:18;58:15;95:20;	336:15,16;337:7;356:14;	102:9,18;105:1;107:17;
8:13;29:23;39:15;45:13;	283:12;294:13;357:4;	365:12;368:7;382:19;385:7;	108:25;109:2;114:8;117:8;
49:5,11;81:25;116:19;	366:17;367:23;385:18,25;	395:5;396:5	118:24;119:1;124:13;
132:14;137:1;161:20;	400:21	scale (2)	126:17;127:22,24;128:14;
163:16,22;172:24;178:5;	runoff (3)	149:1;180:16	132:18;150:11;151:9;
197:16;208:3,5,21;212:18;	77:20;345:21;366:15	scanned (1)	157:21;158:18;163:12;
253:15;274:4;319:13;	runs (8)	117:2	179:13;184:18;253:13;
322:16;333:18;393:25	46:13;52:23;222:3;	Schedule (4)	304:22;305:1;309:15,25;
Robinson (1)	283:13;305:14;365:7;	35:22;36:1,5;106:25	360:11,15,16;364:5,6,6,6;
91:21	367:22;386:11	school (8)	365:6;366:7;367:22,25;
Rob's (1)	rusted (1)	309:24;353:3,5;359:7,25;	368:10;382:21;386:2,2,12,
10:25	379:1	374:6;375:21;406:2	13;390:10;395:17;399:3,5, 11
rock (1) 358:10	S	Schoonover (1) 198:5	security (1)
rocks (2)	В	scientists (1)	218:2
75:16,22	sagebrush (2)	153:6	sediment (1)
rode (1)	324:11;373:4	scooping (1)	358:11
Toue (I)	.)24.11)/.).4		
	*		
308:20	Salmon (7)	400:2 Scott (45)	sediments (1) 129:4
	*	400:2	sediments (1)
308:20 role (6)	Salmon (7) 7:8;8:5;99:3,7;191:22;	400:2 Scott (45)	sediments (1) 129:4
308:20 role (6) 60:8,13;87:7;192:10;	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14	400:2 Scott (45) 8:9;25:5,12;64:22;72:13;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16;
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25;	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49)	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18,	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20;	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17;	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9;
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14;	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21;
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1)	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16;
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21;
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2)	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screwed (1) 310:24	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screwed (1) 310:24 scroll (3)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16 roughly (5)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7 satisfied (1)	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1) 115:19 screwed (1) 310:24 scroll (3) 305:4;308:9;327:5	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2 semblance (1)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16 roughly (5) 42:7;48:23;52:3;349:13;	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7 satisfied (1) 233:11	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1) 115:19 screwed (1) 310:24 scroll (3) 305:4;308:9;327:5 se (1)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2 semblance (1) 76:9
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16 roughly (5) 42:7;48:23;52:3;349:13; 364:22	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7 satisfied (1) 233:11 satisfy (3)	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1) 115:19 screwed (1) 310:24 scroll (3) 305:4;308:9;327:5 se (1) 77:12	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2 semblance (1) 76:9 send (10)
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16 roughly (5) 42:7;48:23;52:3;349:13; 364:22 round (5)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7 satisfied (1) 233:11 satisfy (3) 186:20;235:1;251:7	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1) 115:19 screwed (1) 310:24 scroll (3) 305:4;308:9;327:5 se (1) 77:12 season (8)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2 semblance (1) 76:9 send (10) 87:21;117:10;171:3;218:3,
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16 roughly (5) 42:7;48:23;52:3;349:13; 364:22 round (5) 342:12,12,14,21;393:11	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7 satisfied (1) 233:11 satisfy (3) 186:20;235:1;251:7 save (1)	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1) 115:19 screwed (1) 310:24 scroll (3) 305:4;308:9;327:5 se (1) 77:12 season (8) 53:25;56:18;75:7;77:8,10;	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2 semblance (1) 76:9 send (10) 87:21;117:10;171:3;218:3, 4;274:22;310:19;374:22;
308:20 role (6) 60:8,13;87:7;192:10; 193:7;240:15 room (6) 21:21;38:17;107:22,25; 115:5;405:21 room's (1) 311:13 Rosalie (12) 8:24;21:23;22:9;40:20; 112:18;184:14;185:1,17; 187:2;224:20;296:3;350:13 Rosalie's (1) 345:10 rotate (1) 245:18 rotating (1) 246:11 rotted (1) 376:18 rough (1) 114:16 roughly (5) 42:7;48:23;52:3;349:13; 364:22 round (5)	Salmon (7) 7:8;8:5;99:3,7;191:22; 192:20;389:14 same (49) 52:3;67:18;68:13;74:21; 81:5,7;91:1;103:25;104:2; 105:19;113:1,8;116:17,18, 20,22,23;117:12;131:16; 149:14;158:5;181:23; 185:19;187:23;203:3; 224:23,25;229:19;232:14; 238:18;243:9;244:23,24; 245:5;259:3;274:6;281:10; 283:12;316:21;339:21; 341:9;343:25;349:13; 356:12;363:10;384:14; 405:22,22;406:15 sample (1) 236:6 sandy (1) 129:4 satellite (2) 82:23;148:7 satisfied (1) 233:11 satisfy (3) 186:20;235:1;251:7	400:2 Scott (45) 8:9;25:5,12;64:22;72:13; 81:9,9;96:13,19;97:6,8,17; 98:3,17,21;101:20;105:7; 106:8,16;107:16;114:8; 115:5,11;118:24;121:6; 123:17;124:13;126:16; 127:19;128:13;129:23; 130:17;156:14;163:20; 177:15;178:17;179:15; 181:2;183:19;198:17; 204:22;232:2;253:1,18; 263:5 S-c-o-t-t (1) 97:8 screen (3) 49:6;342:16,21 screenshot (1) 115:19 screwed (1) 310:24 scroll (3) 305:4;308:9;327:5 se (1) 77:12 season (8)	sediments (1) 129:4 seeing (8) 56:9;210:25;253:23; 279:10,13;361:21;364:16; 366:17 seeking (2) 83:23;338:12 seeks (1) 330:6 seem (3) 48:19;222:21;273:9 seemed (6) 33:20;196:4;201:9;223:9; 256:3;378:9 seems (8) 65:18;125:5;250:21; 261:13;326:18;358:16; 384:16;405:11 seeped (1) 347:19 seeps (1) 377:2 semblance (1) 76:9 send (10) 87:21;117:10;171:3;218:3,

051.00.205.00	12.20	ah a (9)	simple (7)
251:22;385:20	13:20	shown (8)	single (7)
senior (25)	Seven (4)	50:17;102:25;103:1;	65:19;203:2;204:19,20;
70:24;71:17;72:7;109:7;	107:5,11;109:4;134:16	143:12;173:5;307:13;	292:25;336:22;350:1
112:24;124:17;170:6;	several (9)	333:12;363:9	sinks (2)
203:25;226:3,5,10,17,22;	61:23;157:20;181:20;	shows (26)	122:25;123:9
227:3;229:2;246:12,21;	182:4;220:25;229:5;230:16;	23:25;36:24;51:17;69:17;	site (6)
295:10;336:25;402:10,18;	240:3;254:2	79:17;83:7;116:5,17;120:22;	112:15;146:24;220:5,15,
	*		
403:25;404:8,12;406:12	shall (2)	122:2,3;127:12;128:23;	15,16
seniority (1)	185:11,25	133:15;141:11;143:18;	sits (2)
408:14	Shan (1)	163:11;165:5;190:4;200:21;	296:7;300:5
sense (4)	317:20	252:24,25;328:4;360:10;	sitting (2)
12:18;39:17;117:17;182:7	Shanna (4)	367:21;372:10	43:24;95:6
sent (13)	8:18;298:25;310:21;341:3	shp (1)	situation (8)
		120:17	65:25;148:2;154:7;232:1;
21:19;64:12;194:14;	shape (1)		
195:18;196:24;204:13;	393:10	shut (8)	244:14,15;245:7;342:4
210:10,12;219:12;251:6;	share (4)	39:19;53:21;54:1;76:8;	situations (2)
273:5;310:18;313:16	53:15;111:23;113:11;	145:13;269:10;301:22;	76:10,14
sentence (8)	350:19	403:20	size (2)
172:23;173:8;220:23;	shared (1)	shutting (1)	16:17;114:16
222:19;223:14;231:11;	171:8	307:19	sized (1)
232:14,15	shares (1)	side (35)	392:24
separate (14)	113:1	34:10;41:22;138:24;	sizing (1)
71:4;110:4;121:14,24;	sharp (2)	141:18;168:1;229:22;	397:22
143:24;146:6;151:5;173:22;	274:20:275:5	233:21,23;234:13;247:23;	slash (2)
	· · · · · · · · · · · · · · · · · · ·		
195:8;202:16;380:23;382:3,	sheds (2)	248:11;250:2,4,6;261:23;	291:21,21
20;390:23	285:18,19	272:13;304:19;310:16;	slew (2)
separated (2)	sheep (4)	317:10;325:22,24;345:1;	307:23;308:22
150:16;343:8	375:24;376:1,9;377:5	348:24;351:2;374:17;	slider (2)
separately (1)	sheriff (3)	383:10;386:17,19;387:1,4,7,	39:19,20
202:18	305:16;314:5;315:13	12,15,16;390:11	slight (1)
separateness (1)	shift (2)	sideboards (2)	296:24
203:6	152:17;229:15	402:9;403:4	slightly (1)
separates (3)	shifted (1)	sidenote (1)	164:13
343:22,22;344:3	118:18	13:5	slow (1)
separating (1)	shoot (3)	sides (4)	113:24
71:4	356:25;357:20,23	261:20;374:15;377:2;	
			small (6)
September (1)	short (8)	400:5	78:7;212:5;267:17;
78:24	53:20;54:5;56:6;76:6;	signature (3)	287:13;388:1;389:8
series (7)	88:23;89:6;90:14;283:24	32:23;34:2;210:4	smaller (3)
100:23;165:14;204:15;	shortly (5)	signed (7)	182:1,5;393:4
221:7,10;245:4;328:14	65:21;68:1;214:18;308:7;	194:11;210:3;211:5;	smarter (1)
			, ,
serious (1)	353:2	330:11;333:24;389:23;395:4	307:2
153:3	shot (1)	significance (1)	Smith (9)
serve (2)	320:3	123:4	8:19;107:19;108:6,17;
7:5;268:14	shovel (1)	significant (2)	111:6;112:3,10,14;280:6
served (3)	400:1	78:8;181:9	Snake (10)
27:18;59:25;118:9	show (24)	silly (1)	67:22;68:14;158:8,14;
	15:24;23:16;49:6;50:3;	406:1	192:4;206:1;209:20;210:13;
serves (1)			
101:7	79:20;103:17;104:13;115:3,	silt (3)	214:6;333:19
Service (1)	13,20,20;121:20;134:21;	374:9;398:20;400:8	snow (1)
8:5	142:21;146:1;175:24;	similar (5)	39:22
serving (1)	186:14;190:5;270:6;271:3;	82:15;230:1;241:5,12;	snowmelt (1)
24:13	274:14;308:10;314:18;	407:2	77:20
	370:19		
set (5)		simple (4)	soft (1)
153:18,19;204:13;205:12;	showed (8)	35:24;36:8;102:3;304:1	378:9
280:3	29:10;37:20;58:23;	simplest (1)	softest (1)
sets (2)	103:15;121:18;162:18;	346:16	374:8
109:9;135:17	252:16;273:7	simply (11)	soil (1)
Setting (1)	showing (14)	14:7;16:12;19:10;157:6;	316:1
168:10	50:15;51:24;55:11;59:18;	228:24;232:9;243:1;247:9;	solely (1)
settle (2)	83:15;116:20;117:12;119:2;	255:23;257:12;383:6	257:13
405:22;406:25	122:6;162:1;208:17;209:7;	simultaneously (1)	solemnly (6)
settlement (1)	328:15;363:23	213:10	26:6;96:23;266:11;
			·

290:16;352:7;369:10	125:13;134:12,17,18,22;	113:6	306:13;311:8,12;316:6;
Solve (1)	135:21;136:2,5,13;157:15;	spend (2)	326:10;333:13,20;334:4;
145:11	186:17;206:8,10,15;207:11;	18:8;279:25	336:9,10;344:2,2,6;349:19,
		· · · · · · · · · · · · · · · · · · ·	
somebody (8)	208:12;209:23;218:13;	spends (1)	20;350:5,6,9;353:19;364:13
14:5;21:19;140:2;148:15;	224:8,11,14,17,24;225:3,6,9,	15:15	366:6;373:24;377:2;382:3;
233:4;236:2;249:11;341:21	15,15;226:5;228:1;262:23,	spent (3)	384:8;385:12;395:17;
somehow (2)	24;336:9,10;392:5,6	70:8;355:4;370:14	398:20,21;399:2,9,11,14,15
11:18;15:7	sources (4)	SPF (4)	15;400:4,12,13
someone (2)	60:20;110:9;170:15;	97:10,11,12;99:16	sprinkled (1)
220:19;305:12	262:21	sphere (2)	299:4
someone's (1)	south (9)	12:13,19	sprinkler (1)
224:9	53:10;54:19;117:4,6,11;	spike (1)	28:13
someplace (2)	120:4;179:12;350:8;365:23	303:6	square (1)
64:15;253:2	southeast (10)	spilling (1)	362:13
sometime (7)	163:13;164:3,5;166:17;	303:8	
			squarely (1)
18:10;59:23,24;118:15;	179:12;252:22;253:3,12,13;	split (5)	215:6
301:17;359:6,9	312:21	54:6;66:2;76:6;164:23;	squiggly (1)
sometimes (18)	southern (1)	374:22	102:23
74:9;77:16;78:19;86:5;	117:16	spoke (1)	SRBA (24)
110:3;147:7;160:7;179:5;	southwest (2)	73:7	13:11;19:8;44:25;67:13;
215:20;218:13;224:17;	179:11,12	spoken (1)	68:5;85:22;103:4;104:23;
228:15,25;231:24;258:14;	Spanish (1)	264:4	116:15;117:19;129:19;
270:12;357:22;367:2	308:1	sporadic (1)	133:25;146:19;177:22;
somewhat (1)	spare (1)	284:18	189:20;199:16,24;211:11;
340:12	65:13	spot (2)	213:22;333:13;334:3;
somewhere (16)	speak (12)	275:16;286:1	339:17,20;384:8
44:18;110:6;155:15;	24:7;43:16;52:6;57:10;	spreads (1)	staff (2)
171:24;179:5;180:18,21;	81:11;93:8,13;139:7;153:4,	323:1	117:1;191:21
183:23;213:22;253:5;262:1;	6;307:25;308:1	spring (100)	stage (1)
309:4;344:16;377:17;	SPEAKER (26)	73:11;100:24;101:6;	18:4
396:21;400:7	20:23;21:2;40:1,10,11;	102:22;109:13;111:7;	stamped (1)
son (1)	41:14;47:6,15;55:7;137:10;	123:10,12;124:1;125:5,5,8;	198:11
8:12	178:8;181:15,17;208:14,17;	135:2;144:25;175:18;	stamps (1)
son-in-law (1)	285:16,20,22;315:16;322:11,	204:11;211:15;215:5,23,24,	199:5
384:18	18;376:24;378:17,20,22;	25;216:3,11,21,22,24;	stand (8)
sooner (1)	382:6	218:17,20,23;237:9,11,12,	12:25;25:21;94:23;
369:2	speaking (7)	14;238:15,19,21,25;239:3,7,	260:14;295:7,12;337:22;
sorry (37)	34:9;56:5;80:11;254:13;	8,14,16;251:2;254:23,24;	364:3
9:16;39:24;50:9;62:25;	373:15;397:8,20	260:10;261:6,11,18;262:23;	stand-alone (1)
117:22;140:14;161:21;	special (5)	273:6,15,15,21;274:21,22;	202:21
163:6,22;174:2,20;181:18;	171:2;182:15;202:24;	275:10,17,18,19,20;276:21;	standard (4)
201:1;209:13;211:7;215:21;	206:17;211:20	277:10;281:14;282:25;	17:5,8;18:7;262:4
240:6;253:15;288:12;	specialized (1)	283:3,3,4,8,12,14,23;284:17;	standards (3)
295:13;309:20;320:1,25;	20:17	298:2,6;299:24;301:18;	100:15;127:25;156:22
321:8;329:25;333:20;	specific (7)	303:11,20;305:9;307:18;	standing (2)
334:23;343:6;348:24;370:5;	9:12;13:18;33:21;188:9;	312:3;314:6;342:18;349:25;	249:15;253:20
371:23;382:9;386:5;390:6;	223:15;224:8;227:25	372:22,25;373:7;374:8;	stands (1)
405:14;406:6;407:20	Specifically (12)	376:14;385:21;405:10,12,19,	368:16
sort (12)	11:4;12:6;18:23;106:12;	20;406:4,8,8,12,20	start (16)
13:22;35:13;101:10;	150:3;161:18;186:19;	Springs (97)	9:1,2;21:11;25:18;39:22;
198:1;213:25;216:6;238:1;	204:18;220:3;223:8;225:5;	11:10;78:12,13;87:23;	46:3,7;130:7;157:20;158:19
312:25;357:16;360:11;	374:5		192:1;215:22;232:12;
		109:24;110:10;120:10;	
366:20;386:11	specifics (1)	122:19,24;123:2,6,7;125:13;	244:19;295:4;352:19
sorts (1)	111:20	134:15,22;135:10,12;136:1;	started (3)
193:14	speculate (1)	139:4;176:12;206:10;	66:1;231:16;321:12
Sound (1)	201:21	207:13,14;208:12,18;	starting (5)
35:1	speed (2)	209:25;213:14;215:13,24,	33:1;37:7;296:14,15;298:7
sounded (1)	24:17;113:23	24;216:14,20,22;217:7,19;	starts (3)
33:13	spell (3)	218:16;238:8,14;251:8;	298:9,24;387:7
sounds (2)	26:19;97:6;191:9	254:20;255:3;260:15;	state (15)
155:7;325:14	spelled (1)	263:22;283:1;284:7,18;	26:19;97:6;153:20;191:9;
source (39)	58:4	285:10;286:3,13,19;298:18,	241:5,8;249:12;259:7,7;
69:6;123:22;124:6;	spells (1)	23;299:1,5,6,20;300:2,18,18;	266:19;291:9;309:15;
	1	1	0

Min-U-Script®

332:11;352:15;369:18 stock (6) 144:6,9,16;145:18,21,25; 77:13,13;78:7;101:7; stated (5) 146:8;149:20;162:19; 12:20;22:8;115:10; 135:4:336:12 163:11:164:19.20:165:8.18. 249:11:405:16 stone (1) 20;166:1;167:5,22;168:1; statement (13) 205:12 170:2,7,9,12,14;172:9,14,17; 15:6;22:5,20;24:5;67:15; stood (1) 173:16;175:17,25;179:6,8; 157:21,24;220:20;231:18; 317:25 187:19,23,24,25;194:6; 258:9;260:2;334:12;394:12 **stop (5)** 200:18;213:15;216:2,4; 217:9,19;218:18,19;219:3; statements (2) 95:22;105:23;111:11; 177:2;397:20 222:21;224:12,22;225:7; 15:3;332:1 states (4) stopped (3) 227:10,11;228:10,13;229:4, 17:22;212:24;273:12; 31:20;68:1;88:21 7,16;230:5,21;231:2,8,9; 233:13;234:9;235:2;236:25; 332:13 stops (1) State's (1) 326:18 237:4,20;248:5;249:17; 112:15 story (1) 252:2,8,17;254:7,21;255:3; stating (5) 376:24 257:10;258:4,6;260:10,16; 346:24,25,25;347:1,1 straight (1) 268:6,16;270:24,25;272:9,9, 13,14;274:25;275:12,18,21, station (1) 281:18 99:18 strange (2) 22,24;276:20,24,24;277:2; 279:9;280:10,13,13,16; 256:7;263:17 **stay (6)** 74:23;129:9;251:9;330:9; strata (1) 281:6,8,8,11,24;282:3,22,24; 331:10;343:3 231:21 283:2,2,10,11,11,17,18,20; staved (2) stream (39) 284:6,8;286:18;289:8;295:9; 86:5;339:20 47:12,17,21;90:16;133:25; 297:12,23;300:17,22;301:8, stays (4) 146:6,17;147:17;152:18; 9,10,11;303:21;305:10; 154:2,9;155:3,7;160:5; 272:18,18;282:24;386:17 306:14;307:18;312:16,18, 161:6,9;165:10;167:1; 20;315:11;316:16;317:4; steep (1) 398:23 168:19,21;220:18;248:14; 318:4;319:20;320:4,16,20; 258:17;259:5,15,20;262:20, steeper (1) 321:21,23;322:13,15,19; 25,25;327:3;336:11;340:16, 231:2 323:3,11,14;325:11,14; **step (5)** 18,23;341:19;343:5;344:15, 326:4,5,17,20,23;328:4; 23:23;25:20;215:1; 19;377:1 329:2,4;330:3,4,19;331:6,12; 240:20:244:17 streamflow (1) 340:16,18;341:10,15,18,19; stepparent (1) 263:11 342:24;343:4,7;344:3,7,12; 241:12 stream-flow (1) 345:9,18,23;346:12,18; stepped (1) 9:10 347:13;348:2,15;352:23,24; streams (16) 150:21 353:12,13,19;354:6,12; 130:19;133:17;136:23; 356:10;358:22;360:20; Steve (4) 137:12;140:24;141:17; 69:9;277:17;315:15;317:8 361:1,6,7,20;362:1,2,3,9,10, 146:1;153:20;154:23;155:9; 23;363:11,13;364:22;365:8, Steven (10) 9;366:9,11,16;367:14,17; 8:25;22:9;48:6;58:18; 170:13;202:17,18;231:20; 86:23,25;87:1,6,8;298:10 362:18;377:1 368:8,12;370:10;373:21,22; stick (1) StreamStats (1) 375:11;377:1,11;379:7,17; 387:21 151:20 380:7;385:8;390:9,13; still (36) stretch (1) 391:11,12;392:8,12,16; 21:22;23:3;41:10;98:5; 247:22 393:3,5,14;396:13,16; 400:11;401:7,13,14,17 107:25;117:12;125:13; strike (1) 62:25 Stroud's (1) 141:22;142:1;167:25;168:3; string (1) 344:22 176:6;204:7;219:3,7;226:17; 227:5;244:7;256:14;258:20; 212:17 structure (6) 260:14;261:7;274:14; strong (1) 75:20;239:13;286:4;303:2, 277:17;282:1;294:5;322:12; 305:23 4:316:1 340:12;343:14;344:6,15; **Stroud (309)** structured (2) 350:4;367:1;385:18;396:11; 19:23;39:9,11,12;42:15, 128:17;316:20 401:16 17;43:2,4,12,21;44:14,16; structures (3) stipulate (1) 19:23;233:11;260:22 45:5;59:5;63:15;64:11,12; 98:3 67:3,4,7;70:1,5,9,25;71:4,10, struggling (1) stipulated (1) 21;72:4;90:23,24;91:4; 327:10 9:17 109:17;110:2;119:5,10; stuck (1) stipulating (1) 120:9;131:7,21,24;132:3,5, 258:25 197:13 23;133:6,16;136:2,6,13; study (1) stipulation (1) 137:2,7,12,23;138:18,22; 153:6 stuff (7) 98:17 139:2;141:3,7,14;143:13,19;

82:17;84:10;150:21; 310:14;345:14;374:18; 387:22 subdistrict (2) 193:3.7 subdistricts (4) 193:2;215:5;240:11; 241:24 subject (7) 107:3;109:10;115:12; 226:3,8,9;292:11 submerged (3) 261:19,20,22 submitted (3) 100:12;273:11;310:14 subordinate (1) 318:3 subordinated (1) 196:24 subordination (2) 170:1;196:14 subsequent (1) 73:18 Subsequently (1) 125:11 substance (1) 10:9 substantial (2) 305:14;343:11 sudden (1) 154:2 sufficient (4) 104:8:148:10.12:150:8 Sufficiently (1) 46:18 suggest (2) 143:6;201:17 suggested (2) 16:4;262:4 suggesting (1) 246:9 suggestion (1) 244:24 suite (1) 127:13 summaries (2) 101:19;111:18 summarize (2) 128:16;240:13 summarized (2) 178:16;255:7 summary (6) 97:19;101:16,18;114:6; 129:23;206:25 summer (4) 70:8;78:23;237:22;275:20 summertime (1) 160:20 Summit (1) 192:21 super (2) 53:20;76:6 super- (1)

000446

192:9 Sustained (1) 150:14,18;151:7;179:3; 66:12;68:12;70:4;72:10; supervisor (1) 71:24 180:12;185:3,15,19,20,21; 91:16;94:9,25;96:24;131:5; 193:14 Swamp (4) 186:5:187:12.15:188:2: 142:6.8:143:2.14:164:15: 175:10;181:7;191:1;200:19; supervisory (3) 302:1;308:23;317:11; 194:21;196:16;219:25; 192:10.10:193:7 398:22 231:4;250:25;279:8;281:11; 233:14;237:2;238:7;240:13; supplemented (1) swampy (1) 283:25;285:9;287:16; 244:20;245:15;263:5; 149:8 139:4 311:15;324:2;342:23;344:1; 266:12;285:4;286:6;290:16; 356:5,18;358:1,2,7;370:10; supply (8) sweeps (1) 304:8,12;306:12,15;313:22; 53:3,3;71:9;99:5;185:9; 178:24 371:22;375:14;378:22; 333:5,11;343:3;352:7; switch (1) 354:13,15,19,25;355:21; 187:5;246:11,22 381:22;386:15;390:16; supplying (2) 306:10 393:22,24;395:9;398:16; 369:10;371:8;379:11;391:9; 116:8;150:19 switched (1) 402:17 394:9;396:11;398:14 308:24 talks (3) tests (1) support (6) 10:12;152:20;193:8,8; 105:15;135:20;162:10 204:15 sworn (7) 240:12;244:4 26:3;96:21;190:23;266:8; tarp (2) Thanks (15) supposed (10) 290:12;352:3;369:6 75:15,23 22:6;49:14;98:12;101:20; technical (3) 61:6;78:21;93:18;233:3; system (57) 107:14;114:6;120:1;173:1; 242:17;254:1;270:7;301:23; 100:13;112:25;122:22; 20:17;193:8;307:4 191:16;239:20;250:15; 380:22;381:1 123:7,11;125:6,7;138:23; technically (2) 290:6,20;390:1;407:8 67:7;225:25 Supreme (14) 151:19;154:21;164:12; that-a-way (1) 13:8;35:4,15;36:3,12,21; 165:6;171:24;182:5;187:23; telephone (1) 288:1 129:15;212:19;213:11,12; 196:15,17,18,20;202:3,6,8, 73:6 theirs (3) 311:24;312:9;332:2;381:9 11,13;206:14;215:8;218:8, telling (2) 280:6;315:12;339:15 21,24;219:9;223:24,25; sure (98) 54:8:149:22 Therefore (3) 13:10;15:20;16:8;21:9; 224:2;225:21;226:8,8,9,11; tells (1) 20:1;213:16;226:3 thick (2) 24:1;29:22,23,24;34:21; 230:3;238:20;239:16; 315:20 40:3,5;41:17;42:16,20,21; 254:16;295:3;296:10;306:2, template (1) 129:7;148:3 46:17;47:22;50:4;58:5; 2;323:23;324:1;325:16; 99:12 thing's (2) 66:18;73:20,21;80:8;85:2; 326:4;329:18;340:19; tended (2) 342:21;400:7 342:18;350:7;371:9,13; 86:12;90:19;94:24;112:14; 375:7,7 thinking (3) 13:1;288:10;394:13 119:24;121:18;133:8,10,12; 406:10 tendency (1) 147:23;148:21;151:6; systems (7) 259:19 third (9) 119:2:120:23:155:15.18: tends (1) 25:7:36:6:37:15:62:9: 153:24;159:5;163:23,25; 171:9;172:13,18;176:14,22; 179:3;180:6;202:14 166:10 104:10,12;200:16;231:5; 185:5;187:21;199:13; tens (1) 257:8 T 207:18,22;208:1,11;210:4; 358:1 Thomas (1) 225:9;227:2;229:3;234:21; term (2) 91:21 229:14;241:1 237:7;240:5;243:15;244:15; thoroughly (1) tab (2) terminates (1) 388:17 245:3;253:25;256:16,16; 271:15,17 257:15,19,25;273:24;274:7; though (19) table (2) 368:10 276:3;287:21;289:8;319:6; terms (4) 9:12;10:19;20:10;21:22; 96:1:198:17 320:3,9;331:21;334:17; 17:13;18:19;62:13;103:3 69:3;76:1,16;160:12,19; tabulations (3) 340:11;341:4;348:5;354:18; 152:1;389:19,20 test (2) 162:18;203:21;205:3;225:4; 314:9.12 356:9;360:8;363:17;379:19; tail (3) 245:18;246:12;303:12; 380:12;381:15,25;384:19, 216:18;322:9,9 testified (18) 340:19;350:17;384:7 23;386:7;387:11;393:20; thought (19) 26:3;75:25;91:13;96:21; talk (25) 7:16;45:2;61:21,21; 394:4,18;404:1,3 143:22;156:14,15,21; 20:21;21:1;28:7;31:10,18; Surface (1) 78:7;80:12;109:3;110:7; 167:15;190:23;222:8; 160:14;193:19;212:9; 11:9 240:10;244:18;266:9; 225:12;249:8;256:6,14; 124:17;129:2,14;135:19; 290:13;352:4;369:7;394:19 surprise (4) 195:22;223:23;224:11; 267:16;269:22;270:9; 141:20;178:12;188:10,12 229:3;234:24;298:5;306:6; testifies (1) 274:24;303:7;307:14;315:2; surprised (1) 307:7;315:23,23;369:2; 81:10 337:23 240:4 373:10 testify (8) thoughts (3) survey (4) talked (15) 7:15;12:1,17;81:19;98:18; 236:10,14;282:20 159:6,21;162:6;389:11 44:10;69:9;101:3;105:8; 141:11;247:16;382:8 thousand (1) testifying (10) 180:18 surveyed (1) 109:11;162:22;181:2; 387:21 192:12;248:16;353:13,18; 10:9;38:12;151:16; threatened (2) surveyors (1) 354:4;376:6;394:25;402:9 167:13;290:24;382:17,24; 256:10;292:16 159:20 talking (64) 383:1,7,12 three (19) surveys (1) 29:13,25;30:1;32:1;37:22; TESTIMONY (65) 27:25;37:6;63:6;109:23; 147:18 41:17;43:8,25;48:1;52:4; 5:5,13,19;7:21;11:23; 120:8;125:15;154:17; 18:12;23:10;25:13;26:6; sustain (1) 53:6;59:1;77:9;92:24;103:5; 170:25:178:17:181:13.16: 119:4;129:5;136:24;147:10; 43:13;53:6;56:12;57:7,9,15; 209:8;249:1,9;263:5;265:4; 263:16

362:21;379:4,7	tomorrow (2)	132:18;134:15;157:8;	369:11,11,12;390:5
three-eighths (1)	23:3;247:11	169:25;170:5;180:12;	try (20)
179:10	took (21)	194:21;195:2,4,14,19,19;	53:22;60:8;78:4;150:3;
three-quarter (1)	11:12;29:9,10;58:22;59:8,	196:3;201:15;235:1,7,8,25;	154:10,15;155:1;224:15;
76:16	8;63:5;64:3;68:13;74:2,5;	236:7;255:12;259:11;264:1,	237:19;238:1;240:15;
throughout (1)	115:19;249:21,22;267:3;	8;292:11;312:10;316:14;	258:19;262:5;279:9;283:13
333:12	268:25;273:20;276:19;	318:3;332:23;335:3,4,14,16;	319:20;342:4;351:15;383:9
throw (4)	314:18;374:12;392:18	336:2,7,13;337:11,15,24;	385:19
163:24;229:12,13;374:15	top (17)	338:8,16,19,23	trying (38)
thunderstorm (2)	32:7,13;53:21;54:25;	transferred (3)	19:13;44:25;45:1;47:24,
76:17;154:1	58:23,25;76:8,18;81:4;	106:25;125:17;126:3	25;48:15;49:6;50:24;51:1,2
times (12)	172:22;226:12;227:4;	transfers (3)	62:15;102:20;203:20;232:9
11:13,14;75:6,10,25;	300:24;320:9;335:3,24;	107:1;135:5;235:17	25;245:9;269:8;282:8;
77:19;79:5;152:23;200:12;	370:19	transfer's (1)	287:15;321:4;325:4;326:13
229:5;304:23;354:4	topics (1)	380:5	328:1,20;329:17;338:3;
timing (1)	34:12	tree (2)	345:17;361:22;381:25;
234:18	topo (2)	302:22,23	382:23;383:6,11;384:2;
tiny (1)	221:1,12	trees (7)	385:19;392:17;393:12;
212:3	topography (3)	83:14;84:3,7;139:18;	399:18;405:21
tippy (1)	16:3;230:20;324:10	160:21;345:1,7	turn (49)
300:24	total (3)	tributaries (9)	21:4;31:13;33:17;35:7,21;
Title (9)	90:18;250:18;269:25	43:8;99:22;135:10;202:16,	40:1;57:2;65:4,7,8;81:22;
7:25;8:1;35:19;36:7;	totally (1)	22;224:3;262:22;384:15;	97:17;103:7,22;106:2;
213:13;406:18,21,24,25	163:18	401:11	107:15;194:9;195:15;197:7
today (38)	tough (1)	tributary (69)	210:2;212:13;229:1;250:14
7:6;8:6;15:9;16:14;23:2;	399:15	39:12;71:6;122:24,25;	255:11;265:17;271:8,9,11;
24:21;25:12;28:25;30:21,23,	toward (3)	123:2,6,8,8,9,9,13,15,22;	274:20;275:5;283:15,20;
24;46:10;57:9;106:5;107:22,	271:8;284:8;358:25	124:5,25;125:2,2,6,13;	284:7,11;286:5,14;295:14;
25;131:5;141:9;143:14;	towards (5)	133:25;135:13,23;154:2;	296:17;308:25;314:5;
144:4;165:16;167:5,13;	52:23;139:2;309:19;	165:8;186:18;202:20,21;	318:18;334:8,16;335:13;
247:11;272:25;333:7;	342:9;344:20	206:8,10,15;207:11,13,15;	337:11;347:10;357:7;372:7
350:13;353:18;354:15;	township (1)	208:12;209:23,25;211:16;	385:14
361:25;370:11;371:9,14;	117:8	216:1,4;218:6,17,18,21;	turned (15)
375:11;381:3;388:17,18;	trace (2)	226:2;238:9,20;254:8,11;	39:18;96:9;217:20,22;
405:21	321:4;386:25	260:16;262:25;263:23,24;	283:18;285:13;289:5;
		264:7;306:14,22;333:13,21;	
today's (1)	tracing (3)		303:17;309:9;310:18;311:7
292:11	389:12,17;396:1	334:4;335:19;336:8,11,17;	19;314:11,12;317:12
together (20)	track (3)	344:7,22;382:3;384:9,17,20,	turning (3)
42:15;53:22;117:9;136:1;	171:9;199:11;327:15	22	64:10;326:8;370:17
143:25;146:1;164:1;179:6,7,	trackhoe (1)	tributary' (1)	turns (1)
9;181:11;182:4;202:14,15;	305:13	384:24	295:11
247:14;300:24;303:1;350:9;	tracking (1)	tried (3)	twice (4)
366:6;375:12	231:12	54:10;244:6;249:25	63:11;133:13;374:19;
token (1)	tracts (1)	tries (1)	398:15
384:14	389:15	218:12	Two (114)
told (11)	trail (1)	trite (1)	8:11,23;10:14;13:2;37:6,7;
64:1;68:7;83:21;86:4,17;	179:25	240:6	40:6;44:18;53:1,2;58:5,6;
87:10;145:11;158:1;213:9;	trailer (2)	trouble (3)	66:2;69:18;76:8;79:17;
258:23;326:12	309:17,21	39:6;230:12;267:15	80:18,19;81:2,4;107:19;
Tom (6)	training (1)	truck (2)	108:20;109:17;110:18,25;
64:5;88:21;293:22;303:8,	267:19	29:10;58:22	113:5,9,10;114:12,24;
8;310:23	transcription (1)	true (12)	120:12,12,14;121:5,15;
Tomchak (16)	7:1	132:20;133:2;142:12;	123:2,14;124:18;125:15,22
8:15;10:13;107:19;110:5;	transfer (92)	289:20;339:14,15;349:14;	131:11;133:17;137:12;
111:23;120:5,6;270:14;	7:22;9:7;12:21,24;13:5,6;	389:21;395:5,24;406:5,13	141:16;149:15;150:4,15;
280:6;305:16;310:20;	28:2,4;29:13;30:1;31:11;	truly (2)	151:1,8;153:25;154:8,22;
317:20;341:3;403:17,23;	33:18,23;36:23;56:9;70:18,	183:4;202:13	164:16,20,21;171:13;174:12
405:7	22;71:14;83:24;100:11,14,	trump (1)	16;181:25;185:20,25;187:6
Tomchaks (7)	16;101:8;103:11,24,25,25;	242:12	196:22,25;215:23,24;224:19
137:15;144:9;145:21;	104:2,6,8;105:3;106:4,5,9,	truth (22)	24;238:13,14;245:17;
223:12;224:10;225:5;233:4	17;107:4,17;109:11,14,25;	26:7,7,8;96:25,25,25;	246:21;247:6;254:5;265:20
Tomchak's (2)	104.04.105.10.11.106.0	101.0 0 0.066.10 10 10	00.00.000.000.000.000.000.000.000.000.000.0000
136:11;339:11	124:24;125:10,11;126:3; 128:4,5,17,20;129:24;130:2;	191:2,2,2;266:13,13,13; 290:17,17,18;352:8,8,9;	22,22;266:8;269:4;270:2; 282:2;284:20;290:12;

202:14;204:11;231:10;

245:25;246:16;258:6;

291:14;292:2,21;293:5; 303:24;343:11;352:3; 354:22;362:21;366:16; 368:14;369:6;370:17; 376:23;377:1,8,10;379:6,6,7, 16,23;390:23;391:20,21; 392:1,4,22,23;395:12;403:3 two-and-a-half (2) 63:6;114:17 **type** (1) 11:19 types (3) 12:5;151:23;235:22 typical (1) 376:12 typically (3) 235:23;298:15;301:21

U **UDY (33)** 5:5;32:9,18;63:1;64:5; 73:7;88:21;105:19;174:7; 240:24;244:2,3,4;248:11; 250:12,20;266:2,3,6,11,21; 274:3;282:19;284:23; 293:18,22,23;303:8,9;304:9; 310:23;313:16;356:19 ultimate (1) 71:22 ultimately (4) 201:14;211:11;258:10; 316:11 unable (1) 343:8 unadministered (1) 215:14 unauthorized (5) 194:17;222:22;223:4,19, 22 unbelievable (1) 387:22 uncalled (1) 321:9 unchanged (1) 125:12 **Uncle (14)** 296:4;297:19;299:4; 309:18,22;310:11;321:1; 323:4,14;325:13;326:19; 328:5;329:2;376:1 unclear (1) 250:7

273:14;290:21 underbrush (4) 230:12,18;248:13;250:1 underline (1) 336:6 underlying (1) 119:14 underneath (1) 372:15 understands (2) 17:16;393:21 understood (6) 94:24;151:7;264:14; 334:7;386:14;391:10 Undoubtedly (1) 379:19 unexpected (1) 129:12 unfortunately (1) 234:4 **UNIDENTIFIED (26)** 20:23;21:2;40:1,10,11; 41:14;47:6,15;55:7;137:10; 178:8;181:15,17;208:14,17; 285:16,20,22;315:16;322:11, 18;376:24;378:17,20,22; 382:6 unified (1) 264:4 unique (1) 228:15 United (1) 332:13 unites (1) 297:6 unless (6) 203:1;204:17,17;205:15; 235:25;357:22 unnaturally (2) 167:3;168:24 unnecessarily (1) 15:1 unreasonable (2) 236:1,3 up (196) 7:18;9:22;13:24;19:13; 23:17,25;24:16;25:20;31:23; 32:13;39:24;41:1,6,11,18; 42:23;45:13,13;46:5,25; 47:1,4;50:10;52:19;57:10; 59:4;64:3,5,11;71:10;72:17; 77:16;78:22;80:2;82:1; 83:17;90:13,13;91:3,5,6,23; 96:1,16;99:13;112:7;113:23; 117:6;122:8;133:14;139:9; 161:5;163:18;164:4,5,11; 168:5;173:23;179:5;180:13, 23;181:2;186:14;201:22; 205:8;216:5,14,17;217:5,14; 157:21;161:3;172:9;173:18; 219:5;221:11;226:20;227:5, 8;228:12;229:19;230:24;

238:18;244:14;247:10; 248:13,22;250:22;253:1; 256:9;260:23;261:1,5,8,25; 266:2,4;270:4,6,10,11;271:3; 273:7;274:14;275:2;276:10; 280:3,22;288:10,22;289:8; 290:8;292:17;295:7,8,12; 297:20,22;298:2,3,6,13,17, 19;299:1,4,6;301:17;302:5, 12;303:9;304:2;306:8;307:3; 308:6,8,9,10,20,24;309:24; 310:7,21,24;314:8,19;315:3, 14,17;317:22;319:15; 323:19;324:14,15;326:21; 327:1;328:4,9,13;329:8,19; 335:24;339:7,7,10;342:13; 344:10;349:4;353:16;354:3; 357:16;362:9;363:10; 367:22;374:12;377:4; 378:13;380:8;383:4,8; 385:19;386:12,24;387:1,3, 12;395:21;396:19;398:20, 24;399:2;400:1;401:9,10,24; 402:8 update (1) 336:7 updating (1) 162:11 uphill (5) 306:22;324:20;345:3; 357:2,5 **upon** (12) 15:1,8,11;16:21;70:11; 133:4;142:16;144:15; 220:18;221:4;255:18;258:9 **upper** (161) 29:11,17;44:10;53:5,11, 16,19;54:1,10,16,18,21;55:4, 13,14,18,22;56:1,9;57:25; 59:1,1,12;60:18;61:3;62:21; 65:20:70:10.15:71:7:73:24: 75:7,11,15;76:1,12,20,21; 77:5;79:9,17,21;80:14,23; 86:11;88:1;91:25;92:18; 93:16;99:3,6;101:3;102:18, 24;103:3,10,13;105:5,15; 109:11;114:13,17,21,24; 116:9;118:7,9,19;119:13; 121:12,21,25;122:14; 125:20;131:6,12,20;132:11, 22;133:5,20;138:11;139:11, 23;141:2,16;142:9,13,25; 143:7,20;144:6,18,23; 145:16,23;146:2,3,7;149:19; 150:2,18,20;151:2,4;154:21; 155:12,12,14,17;164:12,16; 167:15,18;173:17;175:24; 176:1,9,12;183:24;192:20; 196:25,25;201:11;219:3; 221:23;222:2;226:17,21; 234:20;236:25;247:24; 251:12;252:3;258:12;

231:2,18;236:20;237:3; 269:24;272:3,7,8;273:5,8; 277:11:278:6,20:279:11; 281:4,5,9;287:6;305:19; 314:24;315:6;341:16,16; 346:19:360:14:362:15: 364:10;402:7;407:24;408:6 upstream (57) 44:13,19;61:16;72:4;89:7, 15;90:15;102:17;103:15; 117:15;119:12;124:16; 131:13,20;137:21;138:13, 14;141:7;143:12;145:18; 149:20;154:9;155:9;167:24; 171:1,2,13;180:2,7,13,14; 181:10;182:1,6;183:8,10,13, 14;201:25;203:23;222:20; 223:3,6;226:11,15;227:10; 228:22;232:16;233:16; 279:9;342:13;343:13,16; 344:10;350:17;365:6;402:21 usable (1) 204:12 use (63) 15:25;16:16;28:9;31:6; 38:4;53:16,19,24;67:1; 74:10;78:13;79:11;82:5; 101:1,1,8;102:1,3;104:14,18; 110:18,23;111:7;115:2; 116:8;124:21;125:8,18,21; 126:7,10,10,13;127:13,14; 128:4;155:18;166:2;177:1; 196:1:197:1,2;203:25; 220:25;221:8,9;222:21; 223:4;224:15;235:16;246:4, 4;262:17,17,25;263:8; 292:24;316:11;322:16; 382:12;401:16;407:24;408:3 used (43) 18:11;28:7;30:25;53:18, 23;54:19;56:16;87:10,10; 96:8;104:17;112:1;113:9; 116:15;120:22;126:8; 128:21:135:4;147:6;151:20, 24;154:25;158:7;166:3; 177:20,21,22;223:24; 259:23;280:19;299:2,4; 301:12,14;316:7;368:17; 377:9;387:20;395:7;403:8; 406:16;408:8,15 user (7) 226:17;227:15;228:1; 232:5;258:18;267:22;268:15 **users** (11) 61:18;87:13,15;196:6; 215:8;241:9,10;245:17; 246:21;247:5,10 uses (2) 159:7;262:20 **USGS (33)** 102:10;103:1;119:14,15; 121:17;149:9;151:19; 158:21.22.25:159:7.18: 161:16,17;162:5,18,22;

uncommon (1)

uncuttable (1)

16:12;17:3,8;18:14;

152:11;155:17;156:22;

185:4,9;186:21;187:5;

124:25;128:6;144:2;146:5;

225:2

171:20

under (27)

163:7;168:4;177:19;221:1,6, 12;224:15,16;252:16,18; 262:17,20,25;263:6;312:19; 349:3 using (28) 30:24;31:1,20;32:5;53:12; 54:10,13;56:14;86:8;99:11; 101:25;115:18;116:19; 117:1;122:11;134:1;148:20; 158:23;159:4;194:16,19; 220:19;224:2;243:7;263:3; 318:10;323:23;392:11 usual (1) 358:13 usually (4) 204:3;224:16;236:16; 358:13 utilizes (1) 336:8

 \mathbf{V} vague (1) 398:16 valid (1) 104:17 validity (1) 104:12 valley (2) 302:24;330:5 vantage (1) 230:16 variety (3) 100:25:159:7;204:3 various (7) 91:20;122:20;152:19; 202:8;221:13;263:4;323:20 vegetated (2) 84:17;129:5 Vegetation (5) 84:8.15:160:6:222:10: 358:17 vegetative (1) 160:10 venue (1) 21:18 verbal (2) 33:13;49:5 verbally (1) 33:4 verification (1) 162:21 verified (1) 390:5 verify (2) 19:10;149:23 version (3) 101:22;120:22;212:7 versus (15)

vertically (1) 102:8 vessel (1) 236:17 video (3) 95:20,22;96:6 view (3) 223:24;272:12;311:24 Viewed (2) 231:6;258:3 virtually (1) 385:23 visible (4) 119:21;222:5,6;344:16 visit (9) 63:9;74:6;164:8;220:12, 14,15,16;233:12;268:2 visited (6) 100:1;114:14;130:22; 140:7;217:15;268:2 visits (2) 164:9;220:5 visually (1) 114:19 voice (1) 49:10 volume (1)

W

107:2

warm (1)

39:24

wade (1) 339:18 **Wait (4)** 56:22;212:6;238:2;383:9 waive (2) 22:1;24:25 waived (1) 22:10 waiving (2) 9:3;22:13 walk (27) 41:1;131:20,23,25;132:4; 157:18;217:25;230:5; 233:21;247:18;248:13; 272:9,17;274:20;277:6; 282:1;289:2;295:2;304:25; 305:24;331:8,8,11;358:22; 364:3;377:5;390:25 walked (40) 132:1;150:20;173:24; 230:10,11,17;247:21;248:10, 10;271:3,5,5,7,24;274:15,16, 23;276:9;277:10;280:10,14, 15;281:4,6,13;287:3,5;304:6, 7,22,23,23,24,24;305:20; 312:17;315:9,18;330:17; 343:2 walking (6) 129:7;230:19;275:21; 342:24;343:4;359:1

35:10 washing (2) 398:22;400:4 waste (1) 228:17 wastewater (1) 299:5 watching (4) 181:19;305:24;307:23; 366:15 Water (790) 7:5;9:9;11:9,11,21;13:10, 19;14:3,8;15:4,24;16:3; 17:25;19:8;27:7,10,11,12; 28:7,9,12;29:6;30:9,20,25, 25;36:15,19;37:10,16,24; 38:6;39:8,10,13;40:7;43:11, 16,25;46:9;48:2;49:25; 50:19;51:2,12,17;53:3,4,12, 15,19,20,22;54:4,6,6,11,15, 22,25;55:3,5,22,25;57:18; 58:11;59:16,18,18,21;60:1,5, 6,9,10,19,21;61:1,2,8,10,11, 12;62:2,9,11,15,19,20;63:15; 64:9,11,12,17;66:20,25;67:3, 4,6,19;68:5;69:7,12;71:9,10, 11,17;72:1,7;75:8,9;76:2,6,9, 11,11,18,20,22,24,25;77:10, 13,13,14,17,20,23,23;78:2,3, 4,6,7,8,9,13,20,20;80:2;86:1, 6,8;87:13,14,15,18,21,21,22; 88:15.15.17.19.22.24:89:1.5. 10,11,13,19,20;90:18,18; 91:12,12,12,19,24;92:7,8,10; 93:5,7;97:10,12,15,23;99:5, 10,15,16,17,19;100:13,19,21, 23,24;101:2,7,16,18,19; 102:6;103:4,11;104:12,13, 16,17,21,25;105:13,14,24; 106:14,24;107:3,7,11,11; 108:4,5,11,11;109:4,4,7,8,15, 16,19,21,22,23;110:7,8,13, 16,22,24,25;111:2,6,9,18,24; 112:4,8,17,23,24;113:5,6,6,8, 9,11;114:6,12,15;116:25; 117:10;119:25;120:6,14,23; 121:10;122:20;123:1; 124:16,22,25;125:15;126:2, 10,11,13,15,19,22,24,25; 127:4,14;132:21;133:4,23, 24:134:1,4,8,11,14,16; 135:18,19;136:2,11,12,15, 17,22,22;137:15;141:17; 142:2;144:11,14,18,19,22, 25;145:4,10,14,17,21;146:7, 11;147:20;150:19,22;152:5; 153:18;154:10,15,24;155:13, 14,16,21;156:15,25;157:4,8, 15,23;162:9;165:18,23; 166:9,10,12;168:16,21; 169:7,8,9,18,19,20;170:2,8, 16,20,25;171:3,6,13,17,23,

warranty (1)

24;172:6;173:10,15;175:19, 24;176:2,12;181:13,21,23, 25;182:4,8,10,11,19,23,24; 183:5,9,12,16,20;184:2,14, 18,21;185:8,9,15;186:1,6,9, 14,19,20,21,22,24;187:1,4,5, 6,11,15;188:9,16,21;191:19, 23;192:3,12,17,24,25;193:1, 2,12,22;194:3;195:6;196:6, 10,15,20,24,25;197:1,3,25; 198:10,14,16,19;200:11; 201:10;202:14,25;203:4,23; 204:2,12;205:4,11,21;206:2, 14,21;209:8,20,22;210:14, 22;213:16;214:11,11,19,21; 215:2,4,8;218:3,16;219:1,8; 220:9;222:23;224:7,9,10,14, 23;225:6,14,18;226:18,20, 21,25;227:5,7,9,11,15,15,16, 17,21,21,23;228:1,2,7,11,12, 16,21,22;229:1;231:9;232:4, 6,7;233:25;237:15,16,17; 240:8;241:7,9,10,10,10,15; 242:11,15;243:5;244:6,7,8; 245:1,9,14,17,18,25;246:4,5, 22,22,24;247:5,6,10,24; 249:12,14,19;251:2,7;252:1; 254:10;255:5,17;256:10; 258:6,10,11,18,20;259:10, 11,12;262:21;263:22,24; 266:25;267:16,17,22,22,24; 268:5,13,15,18;269:8,12,18; 270:8;272:12;273:14;274:9; 275:14;276:6,7,14,18,21; 278:12;279:10;280:4;283:2, 17,20;284:5,11;286:2; 287:14;288:10,25;289:1,4; 290:22,24;292:6,6,8,25; 294:23;295:10;296:16,22; 297:4,5;299:14;300:17,17, 18,23,23,23;301:8,9,11,14, 18,19,21,23,23;303:5,8,9,9, 13,21,25;304:2,3,13,19; 305:18;306:19,22,25;307:10, 14,18;308:3,4,18,19,22,25; 309:9,9;310:3,7,8,10,25; 311:3,17;312:3,5;313:4,9; 314:5,6,7,11,13,18,25;315:4; 316:12,19,23;317:8,9,13,18, 25;318:3;322:2,5;323:17,22; 324:20;326:3;329:15;330:6, 16,24;331:10,12;332:10,16, 17;333:10;335:2,23;336:8,8, 11,12,19,23;337:3,5,6,20; 338:15,20,22;339:13,18,22; 340:24;341:1;342:8,18; 345:8,22;347:2,3,14,15; 349:25;350:8,12,16,23,24; 351:4;357:2,4,5,7,10;358:8, 10,14;361:23,23;363:17; 366:11,14,17;368:17;370:19, 21.25:371:1:372:7.16.21: 374:15,21,22;375:1,2,7;

17;406:19

13:8;15:2,8;17:23;35:5;

36:13:129:14;213:1,20;

370:6;394:22;395:8;405:11,

377:5;380:7,13;385:14,15;	338:16	10:21;19:14;35:9,18;	Whittaker's (2)
386:17,18,24;387:14;400:22,	wear (1)	45:10;50:4,17;58:17;106:3;	213:6,7
23,23,23;401:6,9,24,25;	307:15	120:19;139:1;154:19;	whole (18)
402:5,7,10,19,22;403:2,3,9,	weather (1)	159:17;180:16;197:24;	26:7;49:22;84:15;96:25;
12,16,21,24;404:8,15;	74:7	199:7;204:6;207:3,7;209:6,	191:2;208:5;215:25;266:13;
405:10,12;406:4,8,9,24;	website (2)	18;210:8;254:3;266:23;	290:17;303:11;306:20;
408:4,7,10,14	119:18,25	270:13;278:16,22;279:5;	331:10,11;352:8;357:14;
watermaster (83)	websites (1)	280:5;286:5;289:19,19;	359:3;369:11;374:4
25:7,14;32:10,11;51:5;	162:4	297:23;336:5;379:22;	who's (9)
59:21;61:11,14;62:10,14,25;	Wednesday (1)	382:20;394:2;395:10,11	12:17;25:5;112:6,6;233:4;
	8:3		242:11;335:9;339:2;392:16
64:4,6;72:20;79:25;80:4;		when's (1)	
88:21;89:15;90:19;105:21,	weeds (1)	399:16	whose (7)
23;124:12;125:3;126:20,21;	199:11	whereas (3)	32:6;145:21;185:16;
127:1,3,5,7,10,11;129:21;	week (2)	122:25;123:12;311:18	186:24;187:1;296:2;394:18
145:11;165:25;169:15;	307:16;340:21	where's (1)	wide (1)
174:4,22;175:14;191:23,24,	weekend (2)	320:19	317:19
25;192:3,6,8,13;193:22;	77:25;314:7	wherever (1)	width (1)
195:17;196:5;199:25;200:4,	weeks (3)	143:8	129:10
5;204:14;213:18;214:10;	63:6;174:15,16	whichever (1)	wife (3)
216:10;218:3;223:10;	weight (2)	276:21	8:16;85:14;367:1
226:15,19;227:17;228:24;	18:5,5	white (3)	wild (1)
233:8;236:23;240:7;245:19,	weir (25)	270:15;334:9;347:2	262:2
20;246:13,17;247:8,9;255:7;	16:18;51:7,12,15;52:4;	WHITTAKER (133)	wildest (1)
257:3;258:21;266:24;267:9,	53:7;55:14,21;261:6,7,10;	5:13;8:10,11,12;10:14,14;	372:23
14,18;273:13;294:2;308:14;	296:11,13,22;299:11,17,19,	13:7;15:1,7,15;17:23;35:5;	willing (1)
372:5;401:16;403:9	21,24;300:5;322:11;341:7,	36:13;37:23;40:20;60:4;	250:9
watermasters (15)	10;345:12;402:1	63:10,10;66:13,15,16;95:19;	willow (1)
67:20;169:20;193:4,7;	weird (1)	107:19,20;108:20;112:17;	148:3
195:20;241:2,4,7,9;246:1,7;	204:5	120:10;124:23;125:1,12;	willows (11)
293:17;294:22;401:1,4	weirs (4)	129:14;166:2;167:9;178:2;	84:6,7;129:6;150:21;
watermaster's (5)	261:2;303:24;307:13;	185:17;186:25;188:3;197:9;	297:21,25;316:3;323:1,19;
	385:21		325:19;329:8
61:7,22;227:19;228:15;		209:21;210:6;211:1,4,5;	
234:24	weir's (1)	212:25;213:10,20;219:4,9;	winds (3)
watershed (3)	341:10	232:19;255:24;260:21,22;	298:25;349:17;366:7
100:13;157:15;294:20	Welcome (1)	265:19,20;266:8,8;270:6;	wintertime (1)
watersheds (1)	265:15	271:25;273:15;274:17;	297:22
267:5	well-defined (1)	275:2,14,19,25;276:10;	wire (1)
way (94)	313:5	280:4;282:23;283:4;290:7,	345:6
9:12;12:15,23;38:17;	wells (1)	10,12,12,15;291:11,14;	wishes (1)
45:25;48:12;54:17;63:8;	384:15	292:2,21;293:3,25;333:24;	246:14
64:18,21;67:17;69:21;79:5;	weren't (13)	335:6,7,9;347:10;348:18,22;	withdraw (8)
88:23;106:18;108:11;118:6;	80:1;94:10;134:15;	349:8,18;351:13;352:3,3;	34:23;208:5,9,22;209:2;
129:20;130:7;137:21;	149:22;171:23;279:10;	353:9,11,17;354:13;355:8;	263:18,19;311:4
140:15;148:7;149:23;	308:2,17;331:22;339:21;	358:23;360:23;365:24,25;	Withdrawal (1)
152:22;168:5;173:23;	374:7;395:18;400:10	366:1;368:9,25;369:4,6,6,9,	337:14
192:21;196:17;214:5;	west (60)	20;370:2,6;372:16,22;	withdrawn (5)
216:10,13;218:5;227:7;	46:18;53:10;125:5;	385:13;386:25;387:5,6;	125:11;264:12,13;337:12,
233:3;240:10;242:8,9;247:3,	167:18;176:11;216:3,21;	388:10,10,24;394:22;395:8;	18
4,4,8;251:23;264:5,18;	237:9,11;239:7;254:20,24;	396:7;400:18;401:19,21;	withdrew (1)
276:21;277:6;278:22;280:3;	260:15;261:18;263:22;	402:2,20;403:10;405:11,17;	338:9
281:12;285:10;286:5;287:1;	273:6;275:10,17;283:1;	406:19;407:9;408:17	within (16)
288:4,9,17;295:19;298:14;	284:6;285:10;286:3;288:3,4,	Whittakers (18)	89:10;101:1;149:17;
306:11;311:3,17;313:5,6;	7;293:6;298:2,5,18;299:24;	13:9;15:23;19:20;20:9;	153:20;174:15;192:18;
315:10;316:19;317:17;	300:18,23;301:18;307:18;	34:16;35:3;36:2,13,20;	194:4;206:14;213:16;215:7;
327:5;329:14;331:10,11,17,	311:8,11;316:6;325:24;	213:13;223:9,16;224:19;	220:3;241:23,24;242:15;
19;333:22;337:21,21;	326:9;329:23,24;331:11;	255:23;269:14;331:23;	263:10;343:4
338:15;343:12;345:23;	344:2;348:24,24;349:19,20,		without (15)
		372:17,18 Whittelears' (18)	
346:16;347:1;354:23;356:2,	25;350:5,6;366:5;372:21;	Whittakers' (18)	23:11,11;147:25;169:25;
2;357:10;358:4,4,6,24;	373:23;375:22;398:20;	14:23;17:25;34:10;62:2;	201:16,20;214:7;228:17;
360:15;368:1;377:4;380:22;	399:2,11,14,15;400:13	120:7;123:1,12;124:21;	235:20;251:14;332:16;
381:1;387:15;403:22	Western (1)	127:9;187:7;213:1;217:1;	346:4,5,5,5
ways (4)	332:13	233:16;237:11,13;254:10;	witness (106)
117:15;178:22;278:15;	what's (39)	288:25;363:20	7:14,16;12:1;14:25;25:7,

-			
21.26.2 0.40.20.42.20.46.1.	214:5;224:18;225:13;	riolding (1)	1 101() (1)
21;26:2,9;40:20;43:20;46:1;		yielding (1)	1-181C (1)
48:11,20,22;51:16,19;59:13;	256:19;288:12;334:8,10;	175:24	13:18
65:14;72:6;92:20,24;93:18,	391:10;396:19	young (2)	12 (18)
22;95:6;96:20;97:1,23;	wrote (5)	55:8;366:15	57:23;110:17;114:18;
98:19;111:12,15,22;115:17;	121:7;151:15;195:23;	youngster (1)	122:1;186:21;193:20;
117:24;118:1,5;132:11;	235:10;255:21	364:17	199:21;209:4,11,12,13,14,
156:15;163:23,25;181:16,			18,19;211:7;251:10;284:1;
	Y	\mathbf{Z}	317:22
18;185:1;190:13,22;191:3;	1	L	
236:17;248:25;249:1,3;			1-20 (1)
253:11,16;262:9;264:22;	yard (6)	Zen (1)	10:3
265:1;266:7,14;278:2;	270:21;296:1;321:1;	74:17	121 (1)
			` '
284:22;285:18,21,23;	323:4;325:13;402:20	zoom (18)	111:9
286:22;288:14,17,22,24;	yards (6)	45:24;47:9,19;161:5;	12th (2)
290:5,11,19,23;291:2,5;	52:11;58:13;284:2,3,20;	164:6;249:4;252:23;270:16;	101:12;112:23
315:17;321:7,9;322:24;	286:4	272:6;285:5,14;286:8;287:2;	13 (7)
327:8,12;328:7;330:14;	year (45)	298:22;299:9;301:2;326:22;	57:23;65:7,9,14;169:12;
340:1;351:21;352:2,10;	30:15;53:20,24;63:11,11;	348:13	172:8;210:7
363:7;365:15;368:23;369:5,	76:11;77:19;100:4;127:7;	zoomed (3)	130 (1)
13;376:25;378:3,6,8,19,21,	160:8;204:19;205:9,10,13,	48:12;79:12;160:24	192:3
24;379:5;382:10;383:22;	13;207:10;217:15;220:4,12;	zooming (1)	14 (7)
384:1;394:1,3;397:9;399:7;	222:11;228:19;258:23;	351:14	88:15;140:19,21;205:19,
	267:15;293:20,20,21;	331.11	
407:3,10			23;211:10,15
witnesses (11)	298:16;299:12;301:13;	0	15 (10)
9:4;10:8;22:3;24:7;25:10;	305:24;309:23;310:1;311:1;		88:15;126:23;155:13;
90:6;96:4;98:4;265:4,21,21	317:12;345:21;346:3,8;	0.34 (1)	172:20;334:8,14,16,19,21;
		` '	
wondering (2)	353:4;369:25;372:18;	110:21	378:16
356:17;382:11	377:14,17;379:21;380:1;	0:20 (1)	1-5 (1)
wood (1)	399:17	7:1	334:20
		7.1	
296:13	year-by-year (1)	4	15.2 (4)
woods (1)	205:16	1	57:20,22;77:23;87:25
277:14	years (33)		151 (8)
word (3)	27:5;29:1;53:21;54:6;	1 (28)	10:7,15;11:24;12:20;
74:11;223:24;389:18	56:15;67:20;76:6,8;221:14,	9:19;12:22;19:7;36:9;	14:24;19:21;197:7,8
worded (1)	15;258:20;280:24;294:17;	65:5,9;79:11,17;100:5;	152 (5)
60:24	312:14;316:8;355:5,5,6;	107:15,17;110:16;115:1;	10:8,15;11:25;12:15;19:21
words (4)			
	359:15;366:14;370:15;	132:17;134:3;140:13,14;	15-200 (1)
74:9;368:10;392:11;406:1	378:16,25;380:11;385:16;	150:12;157:20;184:14;	94:7
work (18)	398:1,25;400:7;401:2,5;	185:4;186:8;210:1;261:14;	15-201 (1)
38:16;99:6;148:21,23;	406:17;407:19;408:15	262:1;330:10;335:18;389:12	94:7
149:8;155:20;192:12;	yellow (1)	1- (1)	153 (7)
210:20;215:13;220:9;	292:25	388:2	10:8,15;11:25;12:15;
240:11;303:19;317:14;	Yenter (39)	1,500 (2)	15:14;16:9;19:21
337:21;355:10;356:24;	7:7,10;24:12,14;25:6;	180:18,19	154 (15)
357:21;401:23	31:23;39:18,21;40:4,14,17;	1.2 (2)	9:20;178:1,7;347:10;
worked (13)	41:3,15;50:6,11;72:20;73:4;	157:21;273:7	359:16;362:12;363:10,23;
64:2;86:10;89:2;99:9;	95:12;105:11;125:4,4;137:8;	10 (13)	364:5;371:24,25;385:2;
312:14;337:20;353:15,15;	161:25;162:2;174:11;175:2;	16:11,12;120:2;195:15;	390:4;393:15;399:1
372:12,13;379:2;401:1;	177:2;190:14,17,21,25;	200:16;220:21,23;231:6;	154-161 (1)
406:11	191:11;264:20;265:14;	234:23;255:11;356:22;	10:3
working (10)	269:13;295:16,18;337:7;	360:4,6	155 (4)
56:23;99:1,3,4,16;147:19;	408:18	10:20 (2)	387:25;388:3,4;395:2
152:5;169:23;216:7;306:19	Y-e-n-t-e-r (1)	8:4;22:8	157 (3)
works (4)	191:11	10:40 (1)	254:13;281:3,14
		, ,	
7:8;115:4;192:16;201:24	Yenter's (1)	22:19	159 (4)
write (2)	242:20	100 (2)	295:15;340:9,14,22
195:24;200:16	yep (17)	28:16;317:19	16 (3)
writing (5)	30:7;83:19,20;100:8;	100-year (1)	36:9;346:1;387:21
33:5;200:17;235:11;	167:4;219:20;221:3;252:21;	151:23	160 (5)
268:21;274:11	265:23;286:10,12;288:23;	10th (1)	296:17;340:9;341:7,14,15
written (8)		309:4	161 (11)
	295:22:332:9.19:348:19:		
10.16.82.24.82.7.112.20.	295:22;332:9,19;348:19;		
10:16;82:24;83:7;113:20;	359:23	11 (8)	9:21;296:12;299:16,17,20;
199:8;204:24;336:5;386:8	359:23 yield (1)	11 (8) 79:14,16;121:7;206:19,20;	9:21;296:12;299:16,17,20; 340:9;341:9;342:1,2,10,11
	359:23	11 (8)	9:21;296:12;299:16,17,20;

in the Name of Bruce and Gler	ida McConneii		April 21, 2021
110.22.122.2.260.4	120.10.121.17.162.24.	205.10.201.11.207.17.	22 (4)
110:23;122:3;260:4 170 (14)	120:19;121:17;162:24; 177:23;178:6;263:6;311:25;	295:10;301:11;307:17;	22 (4)
191:23,25;192:6,8,14,17,		310:11;311:7;322:21	9:20;35:7,9,13
	349:16;360:2,3;389:12; 390:6	2.43 (1)	22-24 (1) 10:3
24;193:2,22;214:10,19;	1956 (6)	111:8 2.6 (1)	23 (3)
215:3,5;240:8		112:17	9:20;35:17,18
17-acre (1)	13:8;17:23;35:4;129:15;		
126:9	214:8;332:2	20 (9)	238 (1)
18 (5)	1957 (1)	9:1,20;22:19;29:15;89:4;	266:21
102:11;172:22,24;337:12;	92:6	102:9;149:18;221:15;400:7	24 (7)
393:4	1960s (1)	200 (1)	9:20;101:21;102:13;
18,000-plus (1)	396:9	28:24	110:17;178:18;251:10;273:7
370:24	1962 (3)	2000 (3)	240 (1)
1831 (1)	353:6;359:7,25	79:24;301:17;316:4	369:20
92:25	1970 (16)	2000s (2)	266 (1)
185 (1)	65:16;69:16,22;117:14;	152:16;221:11	5:6
28:25	118:15;128:24;129:18;	2001 (1)	27 (1)
1880s (3)	142:17,19,23;146:14;147:3;	76:5	67:20
69:5;152:15;159:4	155:16;177:20,22;183:11	2003 (1)	274 (1)
1883 (32)	1978 (1)	192:2	5:7
101:12;109:18,22;112:24;	332:9	2004 (1)	278 (1)
113:8;124:18;170:21,25;	1980s (2)	210:11	5:8
171:1,6,17,23;172:7;181:13,	146:19;153:1	2009 (1)	28 (3)
20;182:4,8,11,19,24;186:21,	1980-something (1)	77:24	27:5;365:23;389:15
21;187:5;188:17,21;196:12,	142:17	201 (1)	282 (1)
21,25;198:16,19;337:1;	1982 (3)	291:11	5:9
403:18	380:21;381:6,21	2010 (1)	285 (1)
1883s (1)	1986 (8)	66:17	5:10
268:22	116:15;118:15;128:25;	2012 (3)	287 (1)
19 (1)	142:23;177:19;189:18,20;	206:1;268:12,14	5:11
359:6	190:5	2014 (10)	29 (6)
19- (1)	1987 (1)	64:1,6,6,11;67:24;104:13,	102:19;366:7;368:10;
301:11	381:2	15;105:1;244:25;256:25	386:2,12,13
1909 (1)	1989 (1)	2015 (17)	291 (1)
101:12	102:11	63:22;88:20;89:4,6;90:14;	5:14
1911 (3)	1990 (2)	192:7;193:24,25;217:14;	2-foot (1)
158:12;172:1;199:21	110:22;209:21	240:8;310:3,25;340:24;	342:2
1912 (3)	1990s (2)	401:15;404:4,5,7	2nd (1)
109:18;199:21;372:16	49:19;99:2	2016 (6)	352:21
1916 (2)	1992 (1)	217:15;219:25;310:5;	2P (10)
210:1;385:13	58:14	316:4;322:21;385:13	8:20,21;107:19;108:7,17;
1918 (3)	1993 (8)	2018 (2)	111:6,22;112:3,10,14
77:13;110:16,16	26:25;29:6;30:25;49:20;	214:18;293:20	
1919 (2)	69:8;143:3,9;146:19	2019 (7)	3
111:8;127:5	1994 (1)	116:12;127:5;221:11;	
1920s (1)	38:2	267:4;273:13;293:21;370:16	3 (15)
293:6	1996 (1)	2020 (37)	58:13;76:5;114:8;150:11;
1930s (1)	300:15	27:18;31:1,20;32:11,14;	151:9;158:18;185:3;210:2;
153:2	1-acre (1)	33:6;37:17;38:11;53:14;	211:25;212:12;301:10;
1932 (1)	126:7	54:12;56:6,13;62:3,6;73:4;	324:5,6;335:23;336:3
372:11	1st (1)	77:9;103:23;105:10;106:1,7;	3.2 (1)
1940s (1)	308:7	124:23;194:15;219:6;220:6,	324:3
86:16		11;222:24;243:5;250:11;	30 (20)
1946 (1)	2	255:17;258:10;269:13;	29:18;83:16;102:18;
389:15		303:17;306:7;307:8,9;	105:1;120:25;149:18;
1948 (1)	2 (19)	313:15;316:11	163:12;179:13;253:13;
359:14	7:25;35:24;76:5;77:25;	2021 (2)	360:16;362:13,14,17;364:6;
1949 (3)	97:17;106:16;107:6;108:25;	8:4;27:21	365:6;367:22,25;378:24;
30:14,17;86:18	109:2;115:17;130:21;	20s (1)	390:10;400:7
1950 (1)	140:11,14;185:3;310:18,19;	373:8	301 (1)
359:12	336:1;357:24;389:12	20-year (1)	9:21
1950s (2)	2,000 (1)	151:22	301-312 (1)
	2,000 (1)		(-)
212:20;359:10	180:19	21st (1)	10:3
212:20;359:10 1954 (12)			

55:6,10,20			
	14;359:15	101:12;106:7;309:4	384:8
307 (6)	4.1 (3)		74-15720 (1)
50:5,6,14,18;52:9;53:8	118:24;119:1;172:9	6	111:1
309 (7)	4.2 (1)	5 (0)	74-15721 (1)
50:5,6;51:23;52:9,13;	122:16	6 (8)	111:1
83:16,17	4.3 (1)	58:2;103:7;104:1;116:4;	74-1615 (1)
30s (1)	124:13	127:22;132:18;174:20;	111:8
316:8	4.4 (1)	317:23	74-1616 (1)
31 (9)	402:17	6.1 (1)	111:7
360:11,15;364:6;365:7,7;	4/1/1916 (2)	132:18	74-1831 (3)
386:2;399:5,7,11	206:11;211:19	60 (3)	110:17;120:14;125:17
312 (1)	40 (4)	74:3,5;77:3	74-1855 (1)
9:21	27:6;67:19;299:14;300:8	600 (4)	136:3
319 (1)	400 (1)	11:4;17:3,8;20:15	74-2195A (1)
5:15	58:13	60s (4)	136:15
31st (1)	40-plus (1)	69:12;87:5;376:19;399:20	74-2261A (1)
314:4	406:17	60s/early (1)	136:17
32 (3)	42 (4)	391:17	74-2339A (1)
399:3,5,9	7:25;294:9,10;332:6	62 (1)	136:19
340 (1)	42-221.0.8 (1)	359:12	74-2351 (1)
5:16	107:8	63 (3)	111:25
347 (1)	42-222 (2)	11:11,22;17:9	74-361 (1)
5:17	128:1;156:22	65 (2)	198:20
352 (1)	45 (4)	377:17;391:4	74-363 (1)
5:20	320:8;365:7;370:1,15	67 (1)	198:23
355 (1)	45-degree (1)	8:1	74-369 (11)
5:21	360:12	68 (3)	112:20;113:16;124:7;
36 (1)	48 (1)	85:24;87:2,4	181:3;185:10;186:24;
309:16	314:18	6th (6)	196:10;199:5;204:21;
360 (1)	_	32:14,17;38:11;75:13;	270:18;328:5
321:7	5	105:10;194:15	74-370 (10)
361 (1)			109:20;113:17;124:8;
5:22	5 (26)	7	181:4;184:22,24;185:11;
365 (1)	31:14;32:6,7,22;37:5;58:2;		187:1;196:10;204:22
198:25	61:24;72:12,19;103:23;	7 (13)	74-949 (2)
367 (2)	105:18;106:9;115:17;	33:6;103:22;112:19;	110:15;126:8
5:23;199:2	126:17;130:21;174:3,20;	116:14,14;127:17,18,20;	74D (2)
369 (17)	186:21;203:10;250:14;	116:14,14;127:17,18,20; 128:14;150:12;158:19;	193:1,15
369 (17)	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14	128:14;150:12;158:19;	193:1,15
369 (17) 171:14;185:16,25;188:19;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13,	128:14;150:12;158:19; 190:4;199:7	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13;
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16;
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13;
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1;
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8)	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23;	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1)	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1)	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1)	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41)	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1)	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1) 8:1	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20) 12:22;16:7;33:17;79:13;
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1) 8:1	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19; 176:11;203:15;205:21;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20) 12:22;16:7;33:17;79:13; 106:2,3,4,10;116:24;117:4,4,
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1) 8:1 54 (5)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19; 176:11;203:15;205:21; 206:2,9;207:1;209:22;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20) 12:22;16:7;33:17;79:13; 106:2,3,4,10;116:24;117:4,4, 7;118:12;148:19,20;149:5;
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6 4 4 (27) 7:7;15:2;16:7;17:22;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1) 8:1 54 (5) 142:21;162:25;177:24,25; 360:4 547.4 (1)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19; 176:11;203:15;205:21; 206:2,9;207:1;209:22; 211:15;218:6;237:15; 238:13;254:3;260:6;271:8,9; 272:17;273:6,14;275:17;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20) 12:22;16:7;33:17;79:13; 106:2,3,4,10;116:24;117:4,4, 7;118:12;148:19,20;149:5; 194:20;261:12,14;317:21
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6 4 4 (27) 7:7;15:2;16:7;17:22; 31:13,19,24;32:3,15,19;58:2;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1) 8:1 54 (5) 142:21;162:25;177:24,25; 360:4 547.4 (1) 109:5	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19; 176:11;203:15;205:21; 206:2,9;207:1;209:22; 211:15;218:6;237:15; 238:13;254:3;260:6;271:8,9;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20) 12:22;16:7;33:17;79:13; 106:2,3,4,10;116:24;117:4,4, 7;118:12;148:19,20;149:5; 194:20;261:12,14;317:21 80 (6)
369 (17) 171:14;185:16,25;188:19; 196:13,23;199:16;202:24; 274:13,18;282:23;319:21; 320:22,23;321:20;322:3; 358:24 37 (1) 294:17 370 (8) 171:14;185:16,25;188:19; 196:14,23;199:5;202:25 376 (1) 352:18 3-foot (1) 393:3 3rd (1) 219:6 4 4 (27) 7:7;15:2;16:7;17:22; 31:13,19,24;32:3,15,19;58:2; 61:24;72:12;105:7;106:9;	186:21;203:10;250:14; 271:12,15,16;294:14;298:13, 14 5,280 (1) 180:23 5/12/1883 (1) 185:10 50 (9) 77:3;114:23,25;150:2,23; 283:25;303:7;309:7;326:9 500 (5) 52:11;118:8;180:17,17,17 50-foot (1) 165:1 50s (3) 69:11;87:2,5 50-year (1) 151:23 52 (1) 8:1 54 (5) 142:21;162:25;177:24,25; 360:4 547.4 (1)	128:14;150:12;158:19; 190:4;199:7 7.1 (1) 389:5 70 (6) 32:10;183:12;199:16; 352:17;377:18;391:4 70s (2) 332:8;391:17 74 (4) 12:8;214:19,21;215:3 74-1057 (1) 136:12 74-15201 (2) 110:21;126:9 74-157 (41) 37:11,16,20;62:2;73:11; 120:10;123:1,18,21;124:25; 125:12;127:9;175:19; 176:11;203:15;205:21; 206:2,9;207:1;209:22; 211:15;218:6;237:15; 238:13;254:3;260:6;271:8,9; 272:17;273:6,14;275:17;	193:1,15 74Z (15) 27:7,10;32:11;38:6;59:16; 60:6;66:16;126:19;192:13; 213:17;214:11,22;267:1; 293:18;400:23 74Z's (1) 242:15 75 (2) 111:1;369:24 76 (1) 369:24 77 (1) 352:21 8 8 (20) 12:22;16:7;33:17;79:13; 106:2,3,4,10;116:24;117:4,4, 7;118:12;148:19,20;149:5; 194:20;261:12,14;317:21 80 (6) 298:15,15;303:7;309:7;

```
389:5
80s (2)
  153:1;207:10
83464 (2)
  291:12;369:21
84367 (3)
  103:12;104:2;105:3
84441 (3)
  7:22;9:7;106:5
84508 (2)
  124:24;335:4
86 (3)
  155:16;177:21;183:12
             9
9 (6)
  100:19;107:6;119:2;
  140:19;149:14,15
90(3)
  298:16;316:8;381:2
90-degree (2)
  283:15;286:14
90-plus (1)
  408:15
90s (2)
  152:16;399:24
92 (1)
  86:6
93 (2)
  85:24;143:7
93/'94(3)
  38:9,10;79:25
94 (3)
  27:18;59:24;66:17
95 (3)
  53:24;380:11;385:16
96 (1)
  380:11
96th (1)
  372:18
9th (1)
  50:19
```

BEFORE THE DEPARTMENT OF WATER RESOURCES OF THE STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR) Docket No.

TRANSFER NO. 84441 IN THE NAME OF)

BRUCE AND GLENDA MCCONNELL)

TRANSCRIPT OF RECORDED HEARING VOLUME II (Pages 410-640)

BEFORE

HEARING OFFICER: JAMES CEFALO

Date: April 22, 2021

Location: BLM/U.S. Forest Service Office

Salmon, Idaho

TRANSCRIBED BY:

JEFF LaMAR, C.S.R. No. 640

Notary Public

1	APPEARANCES:
2	
3	
4	
5	For Applicants Bruce and Glenda McConnell:
6	McHUGH BROMLEY, PLLC
7	BY MR. CHRIS M. BROMLEY
8	MS. CANDICE M. McHUGH (Telephonically)
9	380 South Fourth Street, Suite 103
10	Boise, Idaho 83702
11	cbromley@mchughbromley.com
12	cmchugh@mchughbromley.com
13	For Protestants James Whittaker and Whittaker Two Dot
14	Ranch:
15	HOLDEN KIDWELL HAHN & CRAPO, PLLC
16	BY MR. ROBERT L. HARRIS
17	1000 Riverwalk Drive, Suite 200
18	Idaho Falls, Idaho 83402
19	rharris@holdenlegal.com
20	For Protestant David R. Tomchak:
21	MANWARING LAW OFFICE, PA
22	BY MR. KIPP L. MANWARING
23	2677 East 17th Street, Suite 600
24	Idaho Falls, Idaho 83406
25	kipp@manwaringlaw.com

1	APPEARANCES (Continued):
2	
3	For Protestant Smith 2P Ranch
4	MS. SHANNA FOSTER, PRO SE
5	213 Grady Road
6	Leadore, Idaho 83464
7	shanudy@yahoo.com
8	For Protestant Steven L. Johnson:
9	MR. STEVEN L. JOHNSON, PRO SE
10	1019 Lee Creek Road
11	Leadore, Idaho 83464-5011
12	stevenjohnson01056@gmail.com
13	Also Present:
14	Cindy Yenter, IDWR
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

1	INDEX	
2		
3	WITNESSES	
4	TESTIMONY OF BRYCE A. CONTOR	PAGE
5	Direct Examination by Mr. Harris	416
6	Voir Dire Examination by Mr. Manwaring	428
7	Further Direct Examination by Mr. Harris	430
8	Cross-Examination by Mr. Bromley	450
9	Cross-Examination by Mr. Manwaring	468
10	Examination by The Hearing Officer	490
11		
12	TESTIMONY OF SHANNA FOSTER	
13	Direct Testimony by Ms. Foster	502
14	Examination by The Hearing Officer	503
15	Cross-Examination by Mr. Bromley	505
16	Further Examination by The Hearing Officer	508
17	Cross-Examination by Mr. Manwaring	511
18	Cross-Examination by Mr. Harris	514
19		
20	TESTIMONY OF DAVID A. TOMCHAK	
21	Direct Examination by Mr. Manwaring	519
22	Cross-Examination by Mr. Bromley	524
23		
24	TESTIMONY OF DAVID R. TOMCHAK	
25	Direct Examination by Mr. Manwaring	529

1	INDEX (Continued)	
2		
3	WITNESSES	
4	TESTIMONY OF DAVID R. TOMCHAK	PAGE
5	Cross-Examination by Mr. Bromley	567
6	Cross-Examination by Mr. Harris	580
7	Cross-Examination by Mr. Johnson	585
8	Examination by The Hearing Officer	587
9	Redirect Examination by Mr. Manwaring	596
10	Recross-Examination by Mr. Johnson	598
11		
12	TESTIMONY OF STEVEN L. JOHNSON	
13	Direct Testimony by Mr. Johnson	601
14	Examination by The Hearing Officer	604
15	Cross-Examination by Mr. Bromley	623
16		
17	REBUTTAL TESTIMONY OF SCOTT KING	
18	Direct Examination by Mr. Bromley	628
19	Cross-Examination by Mr. Harris	633
20	Cross-Examination by Mr. Manwaring	639
21		
22	EXHIBITS	
23	NO.	ADMITTED
24	151-153	449
25		

1	(Beginning of audio file.)
2	MS. YENTER: If I can find my mouse. There it
3	is.
4	THE HEARING OFFICER: Okay. We are back on the
5	record for Day Two of this hearing for Application for
6	Transfer 84441 in the name of Bruce and Glenda
7	McConnell.
8	When we left off yesterday evening,
9	Mr. Harris, you were in the middle of your presentation
10	of evidence. And call your next witness.
11	MR. HARRIS: Yeah. Call Bryce Contor.
12	
13	BRYCE A. CONTOR,
14	having been called as a witness by Protestants James
15	Whittaker and Whittaker Two Dot Ranch, was duly sworn
16	and testified as follows:
17	
18	THE HEARING OFFICER: Mr. Contor, do you
19	solemnly affirm that the testimony you are about to
20	give is the truth, the whole truth, and nothing but the
21	truth?
22	THE WITNESS: I do.
23	THE HEARING OFFICER: Okay. Have a seat.
24	Go ahead, Mr. Harris.
25	///

1	DIRECT EXAMINATION
2	BY MR. HARRIS:
3	Q. Bryce, could you state your name and
4	address for the record.
5	A. Bryce A. Contor, 5223 Steel Avenue in Iona,
6	Idaho.
7	Q. Okay. What is your profession and
8	occupation?
9	A. I'm a hydrologist. And my occupation is a
10	consultant for Rocky Mountain Environmental Associates,
11	which is a private consulting firm.
12	Q. Okay. And is that in Idaho Falls?
13	A. It is.
14	Q. How long have you worked for Rocky
15	Mountain?
16	A. Since 2010.
17	Q. Prior to that time could you describe your
18	work and employment experience.
19	A. Yeah. So I farmed for about ten years.
20	During that time I was a canal company secretary. And
21	in that role I filed our companies Snake River Basin
22	Adjudication claims.
23	And then I spent a year as a seed company
24	rep. And I spent a year investigating or inspecting
25	chemigation chemigation backflow preventers for the

1	Department of Ag.
2	Since 1996 I've been in water resources,
3	first for the Department of Water Resources and then
4	the University of Idaho and then private consulting.
5	Q. Okay. You were hired by Whittaker to
6	perform consulting work both for this proceeding today
7	but then also the water administration matters in 2020;
8	correct?
9	A. Yes. And also 2006 I helped with some
10	amendments to adjudication claims.
11	MR. HARRIS: And I believe we stipulated to his
12	admission as an expert; is that right, Chris and Kipp?
13	MR. BROMLEY: Correct.
14	MR. MANWARING: Yes.
15	MR. HARRIS: Okay.
16	Q. So with that, Bryce, I'll move into this
17	transfer.
18	Are you familiar with transfer No. 84441
19	that's the subject of this hearing?
20	A. Yes.
21	Q. Okay. How are you familiar with it?
22	A. So I'm familiar with it by mistakenly
23	reading the prior transfer, because that was the one
24	that came up on the website when I queried for the
25	number. And then you provided me the correct transfer

1 application. And I've read that carefully. I -- I did my expert report based on the 2 3 understanding of that transfer and what it proposed. 4 And then I've also read Mr. King's report. 5 And did you also spend time on the property in the summer of 2020? 6 7 Α. I did. 8 Okay. What -- could you just describe what Q. 9 you generally did. 10 Yeah. So there were two tasks that I was 11 given. One task was to evaluate the east springs and 12 give an opinion as to what would happen if water -if -- if that water right were curtailed, would that 13 14 water become tributary to Lee Creek. 15 The other task was I was asked to evaluate a number of channels to describe their condition and 16 17 capacity. And for your visit in 2020, those 18 0. Okay. 19 reports are contained at Exhibit 152 and 153 in --20 there in front of you? 21 Α. That's correct. 22 Q. Those are your expert reports? 23 Α. Yes. 24 Q. Okay. 25 And these were not prepared for this Α.

1 proceeding. These were prepared at the client's 2 request. But those are my opinions. 3 And then Exhibit 151 is the injury analysis 0. 4 you performed for this transfer; correct? 5 Α. Yes. Let's start with Exhibit 153, which 6 Q. Okay. 7 is your west springs report. 8 The -- on the first page of that report, it 9 references Water Right 74-157? 10 Α. Yes. You're familiar with that water right? 11 Q. 12 Α. Yes. 13 Q. Okay. Your report begins with some background on the source of this right. 14 15 Can you describe what the source of the 16 rights are. 17 It's -- it's two spring complexes. Α. The east springs complex is -- is gathered by a mostly 18 19 straight collection ditch. And the west springs 20 complex is gathered by a -- sort of a serpentine-shaped collection ditch. 21 22 West springs collection ditch, the 23 downstream bank of it essentially forms a ditch levy 24 that completely blocks what would have been the historic channel of what's been called Stroud Creek and 25

1 the Left Fork of Lee Creek.

- Q. And did you actually examine the springs or get close to them?
- A. I did. I walked that bank. I tromped through the brush with -- with Jordan. And then I went back later on my own and did additional walking along east springs and in the drainage below the west springs.
- Q. Okay. So why were you asked to prepare this report?
 - A. I didn't get into the nitty-gritty of the dispute, but I understood that there had been a change in the way water was delivered and a change in administration that Whittakers felt was depriving them of some of their historical enjoyment.
 - Q. What information did you review to prepare this report?
 - A. So I had a large copy of the 1954
 engineer's map. I had the USGS maps. I had various
 aerial photography, topographic maps. I used an
 electronic digital elevation model. I used the IDWR
 GIS data for -- for points of diversion. And then of
 course, my own field observations.
 - Q. And you mentioned a 1954 engineer's map.

 Has the technology for preparing maps and

1 utilizing aerial photos improved over the course of 2 your career?

A. It has.

- Q. Okay. In what way?
- A. Well, so the engineer referenced that he made his -- his maps by overlaying paper and tracing an aerial photograph. And my experience is the older historical aerial photos don't have the resolution of the modern.

And then there's the fact that the earth is round and paper is flat. And -- and he had no way of geo-referencing, other than marks that would have been placed on the paper map. And we don't know how those marks were placed.

And so the relationships of features were likely correct, but the absolute location of those features relative to a survey quadrant may or may not have been accurate in those days.

- Q. And so why did you find that map useful?
- A. The reason that I looked at that map was -was primarily to ascertain what the historic -- history
 was of the features that I saw on the ground. I saw
 a -- a ditch berm or a ditch levy that blocked the
 channel of Lee Creek, had trees and vegetation on it.

And this helped me understand how long it

1 may have been there, what the history of that feature 2 may have been. 3 In your work, both with the Department and 0. 4 in your other careers, have you used USGS maps? I use them a lot. 5 Α. Like Exhibit 23 -- 24? 6 Q. Okay. 7 Α. Yes. 8 Okay. And in your experience, are maps Q. 9 always correct or perfect? 10 Α. No. Okay. And what's that based upon? 11 0. 12 Well, so I can think of a couple of Α. 13 examples from this map right here. We've -- we've got a long series of aerial photography. As far back as I 14 15 can go in the aerial photography, I can observe Mr. McConnell's upper ditch. 16 17 And this map is represented to have been produced from 1985 aerial photography, and that upper 18 19 ditch isn't on the map. You know, whether they just 20 deemed it not a significant enough feature to map or missed it, I don't know. 21 22 And I think the other example from that map 23 is the National Hydrographic Dataset is prepared 24 largely from the line work on these paper maps. And if

you pull up Stroud Creek on that dataset and overlay it

25

- on a 2019 aerial photo, it shows Stroud Creek jumping
 from one linear feature with a lot of trees across a

 bare feature with sagebrush to another linear feature
 with a lot of trees. And I don't believe that's
 actually how Stroud Creek runs.
 - Q. Okay. And so in your -- to try to ground-truth something, would you rather rely on observation and investigation, as opposed to maps?
 - A. For present condition where we can do that ground-truthing, absolutely.
 - Q. Okay. In this report you -- just kind of going through it, you do discuss the Kauer Ditch.
 - And again, what was the reason that you looked at the Kauer Ditch? Or why were you asked to look at it?
 - A. Yeah. So I was asked to describe the condition of various channels as they existed as of last summer and to give my opinion as to what their capacities were. And the Kauer Ditch was an important feature, as I've learned since, in the history of how water was used there. But physically on the ground it's an important feature.
 - Q. And did you locate the Kauer Ditch heading?
- 24 A. I did.

25 Q. Okay. Did it have an IDWR tag number?

A. It had. And I think it's in here, probably on page -- I think on page 3. Well, it's in here somewhere. But yes, I did locate the tag number, and I did include it in the report.

- Q. Okay. And what -- what is the significance of an IDWR tag diversion?
- A. So there may be other purposes. But in the hundreds of tags I nailed on power poles and banded to motor conduits, the purpose of that was to provide a unique identifier for a feature on the ground so that in the future that could be tied to any records from various programs or activities so that there wasn't ambiguity.

We got ambiguity when a single water right has multiple points of diversion. We have ambiguity when a single point of diversion contained -- conveys multiple water rights. And we have ambiguity when there are conflicting local names for features.

So the site tag is just a long number that's unique that all records can be tied to. But it means that someone from IDWR visited the location, nearly always that they took a GPS reading of the coordinates, and that they recorded that somewhere.

Q. And are those tags -- I mean how do you tell that that's a genuine IDWR tag or maybe something

1 that somebody just stuck on the diversion? So the -- when you've seen a few of them, 2 Α. 3 you begin to recognize they have a distinct size and a 4 distinct pattern, distinct font, and they say "Idaho Department of Water Resources." I don't -- I can't 5 quote the exact. But when you've seen a few of them, 6 7 you immediately identify that yeah, this is the thing. 8 And on page 3 of Exhibit 153, you reference Q. 9 the tag number --10 Oh, I do. There it is. Α. 11 Q. -- as A0011439? 12 That's correct. Α. Did it look like the other IDWR tags that 13 Q. 14 you had placed on the other diversions or that you had 15 seen in your experience? 16 It did, yes. Α. 17 Okay. Can you describe what you did in Q. your review of the Kauer Ditch. 18 19 So --Α. 20 0. This is summarized in your report. 21 Α. Yeah. -- I don't need you to read, but --22 Q. 23 Α. Yeah. -- could you just generally describe it. 24 Q. So -- so with Mr. Whittaker we drove most 25 Α.

1 of the length of it. I crossed it in two places and observed the condition of the crossing. I observed the 2 3 heading of the ditch. I observed the measurement 4 structure. I took a cross-section at one location, Jordan helped me -- you know, took a -- took a depth 5 and got the geometry of the channel. 6 And then back in the office I used the 7 8 trace of that from aerial photography and from the 9 engineer's map and the topo map to get a gradient. And 10 then I calculated a theoretical flow capacity of that 11 ditch. 12 Okay. And what -- what was the theoretical 0. 13 flow capacity? It was 15 --14 15 MR. BROMLEY: Mr. Cefalo, I'm going to object to 16 this whole line of questioning. It's in my motion in 17 limine. You've already made a decision that you'll entertain the relevance of it. The Kauer -- the 18 19 testimony has come in that the Kauer Ditch has nothing 20 to do with this proceeding. It's not on the transfer. It -- you know, it's information surely, yes, but it 21 22 has nothing to do with this transfer. 23 So my objection, again, goes to relevance. Mr. Harris is asking for information that doesn't have 24 anything to do with the transfer that's in front of 25

1 you. THE HEARING OFFICER: Mr. Harris? 2 MR. HARRIS: What it has to do with is he's 3 4 verifying just the historic delivery and administration In his report, as he said, he measured it to 5 up there. be 15 cfs. He didn't know that that is about the 6 amount of water rights that Mr. McConnell had. 7 8 at least verifies what other people have testified to 9 from a technical standpoint. 10 So I think it's relevant from that 11 standpoint. Mr. Bromley's exactly right. We're not 12 suggesting that that ditch has to be used now. 13 not suggesting you could order that it be used. But this is all information that I think is relevant to the 14 15 baseline administration that occurred up here, and that's relevant to an evaluation of injury. 16 17 MR. BROMLEY: If it doesn't have to be used and it has no bearing on this proceeding, I fail to 18 19 understand why we're talking about it. 20 THE HEARING OFFICER: Anything? Go ahead, 21 Mr. Manwaring, you can weigh in too. MR. MANWARING: Yeah. Can I ask a question in 22 23 aid of objection to the same line here? 24 THE HEARING OFFICER: You can. 25 ///

1	VOIR DIRE EXAMINATION
2	BY MR. MANWARING:
3	Q. Bryce, the IDWR water tag that you found on
4	the device there at the Kauer Ditch, that doesn't say
5	that that's a decreed point of diversion for anyone,
6	does it?
7	A. No.
8	Q. It's just an identifier of some location on
9	the ground?
10	A. That's correct.
11	Q. And you've not found anything in the Idaho
12	Department of Water Resources' records that show there
13	is a water right attached to that Kauer Ditch location?
14	A. There's a memo from Mr. Luke that was
15	included in the the adjudication claims for
16	McConnells' water rights that indicate that that was
17	the point of diversion for it said McCollum
18	[phonetic], I think, in the document. And Tim Luke
19	affirmed in his affidavit in 2014 that he believes that
20	should have been McConnell.
21	And so at that point it was the perception
22	of Idaho Department of Water Resources that that was
23	the point of diversion for those rights.
24	Q. Have you seen a record from that or the
25	Department of Resource that says that is a diversion

	Addio Transoription
1	place for any water right?
2	A. I just described the record that I have
3	seen from Idaho Department of Water Resources
4	describing it as the point pre-adjudication claim
5	record describing the point of diversion for
6	McConnells' water rights.
7	Q. I understand that's in his affidavit.
8	But anything else from the Department of
9	Water Resources that says there's a decreed right on
10	the Kauer Ditch?
11	A. That's the only documentation I have from
12	the Department of Water Resources.
13	MR. MANWARING: Okay. Then I join in the
14	objection as to relevance, because we're not talking
15	about an actual water right in Kauer Ditch. We're
16	talking about a diversion, legal or illegal, that took
17	place for years historically.
18	But that doesn't apply to what you're
19	trying to decide here today as to the transfer of a
20	diversion point that's on Lee Creek. Has nothing to do
21	with Kauer Ditch.
22	THE HEARING OFFICER: Okay. Those objections
23	are noted on the record. I find that it is relevant.
24	We've covered a lot of ground already from the

applicants' witnesses, talking about the historical

1	deliveries of water within the Lee Creek drainage. And
2	I think this goes to that understanding and that
3	question. So I'm going to allow this line of
4	questioning to continue.
5	But, Mr. Harris, I mean you've noted that
6	you don't believe that you can demand that the Kauer
7	Ditch be added as a point of diversion. And so I don't
8	know that spending two hours on on the Kauer Ditch
9	is going to be a worthwhile venture. But you can
10	continue with your line of questioning.
11	MR. HARRIS: Well, and ironically, that was the
12	last question I was going to ask him about the Kauer
13	Ditch is what was the capacity.
14	
15	FURTHER DIRECT EXAMINATION
16	BY MR. HARRIS:
17	Q. So maybe just to clear the record, what was
18	the measured capacity from your evaluation?
19	A. I calculated approximately 15 cfs.
20	Q. Okay. I do have one more question on the
21	Kauer Ditch.
22	Did you see trees or shrubs or anything
23	growing in the ditch that would indicate that it hadn't
24	been used for an extended period of time?
25	A. No indication that it had been a long

1 period of nonuse. I now want to talk about the other 2 Q. Okay. 3 part of your report, which is the current Whittaker 4 delivery system on the property. And I think you have a pretty good figure. It's Figure 11. 5 6 Α. Yes. 7 You've been here during the testimony --0. 8 well, you were here all day yesterday; correct? 9 Α. Yes. 10 And you heard the description of the Q. 11 irrigation system that Jordan provided and then also James talked about briefly? 12 13 Α. Yes. As a general matter, did they accurately 14 15 describe what you observed that's documented in this 16 report? 17 They did. I may have called some features different things than they did, but I didn't hear 18 19 anything yesterday, either from Whittakers or from 20 Watermaster Udy or from Mr. -- name starts with a "B," I don't hear anything from any of them --21 22 UNIDENTIFIED SPEAKER: Borstelman. 23 THE WITNESS: Borstelman. -- that conflicted with what I observed. 24 25 Q. (BY MR. HARRIS): Okay. So what's --

1 MR. BROMLEY: Rob, I'm sorry to interrupt. 2 Which exhibit are you on? 3 MR. HARRIS: Well, I was going to jump to 4 Figure 11. THE HEARING OFFICER: 5 Exhibit 153. MR. HARRIS: 153. 6 MR. BROMLEY: Exhibit 153. I'm sorry. 7 8 Figure 11. Thank you. (BY MR. HARRIS): When you were up there 9 0. 10 the day of your visit, did you take a GPS with you? 11 Α. I did. 12 Okay. And so there's several figures that 0. 13 have GPS-plotted points. What was the GPS device that you used? 14 15 A. It was a Garmin. I think it's called eTrex -- eTrex something. Maybe eTrex H. 16 I don't 17 remember the model number. Okay. So on Figure 11 I think what we're 18 0. 19 looking at is the -- what I've referred to as the farm 20 yard; is that correct? 21 The farm yard is in the southwest corner of Α. that figure. 22 23 Q. Okay. 24 Α. Yes. 25 And again, I just want to be brief, because Q.

1 we talked about this, but what -- there's a red dot with a smaller black dot in it. 2 3 What -- what does that depict on the -- the 4 map? So that depicts a wooden gate about this 5 Α. wide, can be lifted by a screw. When that gate is 6 lifted, then the water goes into that -- if you're 7 8 facing downstream, what would be the left channel. 9 When that gate is closed, it pushes water to the right 10 channel, which feeds the intake to a pipeline. 11 And the intake to the pipeline is depicted with a blue dot? 12 13 Α. Yes, that's correct. Now, I notice the -- there's a solid 14 0. Okay. 15 red line below the left weir that would be the channel that continues down and then eventually gets lost in 16 17 all of the willows. 18 Do you see that channel? 19 Α. Yes. 20 0. Okay. I notice there's a dashed line 21 through those willows. What does that indicate? 22 23 That indicates that in that area -- well, Α. you can see from any GPS track that I didn't walk that 24 25 entire ditch. I -- the green dots are where I walked.

- Q. The green triangles, you mean?
- A. Green triangles, yeah.

But the fact that it's broken means that I presume that's where the channel went, but I actually couldn't identify the channel there. And that's consistent with Mr. Whittaker's testimony that there the water spreads out.

- Q. You didn't want to wade into the jungle?
- A. I did wade into the jungle. And it was a slog. But I didn't -- I didn't examine every square inch of the jungle.
- Q. Okay. So I noticed from your GPS tracking, too, it looks like you walked over to the west springs channel that comes in from the west.

Could you just describe what you observed.

A. Yeah. So there's a deep ditch, you know, more than knee deep. I didn't -- I had hip boots, and I didn't dare step into it. And at the west end it's narrower, and it gets wider as it picks up more water moving towards the east.

On the downhill side of it is a substantial earthen berm. And that earthen berm constitutes a dam, if you will, or a ditch levy that blocks the -- you know, the natural topographic depression that somewhere would have contained the historic bed of Stroud Creek.

1 So you followed that channel down. Q. Okay. 2 And it looks like you then went up to I 3 believe what you've called the hilltop split? 4 Α. Yes. Could you -- could you just tell us on this 5 0. 6 map where that's located. 7 So in the -- the top part of the map, just Α. 8 a little bit east of center, there are two yellow boxes 9 was Xs in them that represent weirs that kind of 10 obscure a couple of red dots that indicate control That's -- that location is what I call the 11 devices. 12 hilltop split. 13 Q. Okay. And there's a -- there's a red channel that goes off to the west and appears to go 14 15 down the drainage. And it looks like you walked that from the 16 17 control structure on the ditch; is that right? That is right. 18 Α. 19 Okay. What -- tell us what you saw. Q. 20 Α. So what I saw is that going down the hill there's a defined channel that looked like a newer 21 construction that's been riprapped to prevent erosion. 22 23 And then at the bottom of the hill the flow is -- looks like in sort of a self-eroded channel, and it goes 24

maybe 3, 4, 500 feet, mostly north northwest, and then

1 it intersects an older historical ditch.

And that ditch for a short distance captures the entire flow. But as -- as that flow moves then towards the northwest, the ditch isn't large enough, so then the flow spills out of that ditch. And it has cut several erosional channels across a meadow, and then eventually coalesces into a location that looks like it was probably one of the historical channels or the historical channel of Stroud Creek.

- Q. Now, the ditch that you've talked about, does -- does that have a name?
- A. So the -- this northernmost ditch, the last one that I talked about that intercepts -Mr. Whittaker called it, I thought, the Bohan Ditch, but my hearing's not really good. And I think in the engineer's maps it's called the Bohannan Ditch, but it is a historical named ditch.
 - Q. Okay. And on this map it doesn't appear that you walked, at least based on the GPS tracker, any further north than that up to the place where Stroud Creek comes into Lee Creek; is that right?
 - A. I -- I walked quite a bit further north
 than this figure indicates. Even Figure 2 shows that I
 walked quite a bit further -- walked and rode in the
 side by side. But even that doesn't show the furthest

1 extent. But even so, I did not find the -- the confluence of Stroud Creek and Lee Creek. At that time 2 3 I didn't know that was an important feature, and I 4 didn't go far enough north to see it. I want you to look at Figure 10. 5 Okay. I forgot to ask this before. But there's a blue line 6 7 that's on that map. 8 And it's indicated here that's a 1954 trace of the Kauer Ditch? 9 10 Α. Yes. So is it -- is it off a little bit 11 0. Okay. 12 from what the aerial shows today? 13 Α. It is. 14 0. Okay. And so at least -- did you 15 geo-reference that map? 16 So I geo-referenced the paper map, and that 17 offset is likely an effect either of my geo-referencing 18 or the fact that the section lines drawn on the 19 engineer's map themselves had not been geo-referenced 20 properly to the aerial image that the engineer was 21 tracing. 22 So again, the '54 engineer map was helpful to give you a general idea of what's there, but you 23 would say it's not pinpoint accurate? 24

25

Α.

Yes.

Q. So just to finish up with this report, on page -- on page 5 you begin, there's a series of measurements that you took.

And so could you just briefly describe what -- what you were measuring.

A. Yeah. So I was trying to ascertain the water budget of the flow as it was occurring on the -- on the day that I visited. And so I started at the top and measured flow -- I measured just above the old heading of the Kauer Ditch. The Kauer Ditch was not taking water on that day.

I measured flow in the farm yards to the two directions that it could go. Measured flow at the hilltop split. And then I measured flow -- I went far enough down Stroud Creek, but downstream, so north, far enough that I believe that I had captured -- that the channel had captured all of the diffuse flows from this erosion process of exiting the Bohan Ditch. But I wanted to be upstream as far as possible to not capture any other tributary springs.

And so I picked a point -- in retrospect, I probably went too far downstream. But those are the locations that I measured.

Q. Okay. And so you were trying to get an idea of what the discharge was at west springs or all

of the water coming down the creek?

- A. Yeah. So what I was trying to do was to see whether the combination of conveyance in the Stroud Creek channel, which from what I could observe and what I had been told, had not -- for many years had not carried a lot of water. So any losses that might occur in that channel, combined with whatever water was being picked up from the west springs. Because as that diffuse flow north of the farm yard was then gathered up by the west springs collector ditch, it necessarily commingled with west springs water. And I was just trying to ascertain, you know, the net effect of all of that from top to bottom.
- Q. And that's what -- that's what's summarized in this report and these measurements?
- A. Yeah. There's three tables of summary, and I don't have them memorized. But they -- they document what those calculations are and the -- you know, my estimated imprecision.
- Q. Okay. And did it appear to you that west springs had been -- had some human intervention as far as a collection ditch and how it was plumbed into the ditches on the property?
- A. Very much so. And it -- you know, from the -- from the appearance of the ditch bank, the trees

1 and the vegetation growing on that, it looked like it 2 was a very old structure. 3 I now want to talk about your east 0. Okay. 4 springs report. So that is Exhibit 152. 5 Α. Okay. And you open that up, the first thing I'd 6 Q. 7 like you to do is actually open up the other exhibit 8 binder to Exhibit 17. It's an e-mail from Cindy 9 Yenter. 10 I brought these for a reason. Α. Okay. 11 The second paragraph in this e-mail says, 12 "I'm inclined to agree that in the absence of 13 development, flows from the east springs would run generally east northeast and would sink long before 14 15 reaching a named tributary." 16 As a general matter, do you agree with 17 that --18 Yes, I --Α. 19 -- that characterization? Q. 20 Α. Yes, I do. Okay. What is that based upon? 21 Q. So I don't know what Ms. Yenter based hers 22 Α. upon, but my opinion is based on walking that ditch, 23 the full length of it, and then circling back above and 24

below to see what else was going on in that general

vicinity, and then laying my GPS track over the topographic map, and then also using a digital elevation model.

And then also yesterday Mr. Bromley referred to some cross-section profiles that were on the '54 engineer's map. And all of those show that if -- if left undisturbed by human intervention or if -- if not diverted and delivered, that water naturally would proceed to the -- to the north northwest, be tributary to the Big Eight Mile system. Although I don't think that on the surface it would go that far. But that would be the direction that it would run.

- Q. And so if -- if this transfer were approved and east springs is one of the sources for the right and Mr. McConnell called for water from east springs, do you believe without the ditch that it would be tributary to the Stroud Creek drainage?
 - A. It couldn't be.
- Q. Okay. Let's now talk about your last report, which is Exhibit 151 that's specific to this transfer. And in Mr. King's report there's a statement in there that says that "The POD was inadvertently omitted from the water right claims filed in the SRBA."

And were you asked to evaluate essentially

1 that sort of a statement?

- A. I was.
- Q. Okay. Is there a technical definition for "inadvertent omission" that you're aware of?
- A. You know, there's a legal term, "clerical omission," and I'm not sure of its definition. But I know that when I worked in the Department of Water Resources doing adjudication recommendations that we talked about mistakes, we talked about errors, we talked about omissions.
- And, you know, from lay terms, in my mind, if -- if there was a known fact on the ground that didn't get included in the claim that should have, that's an omission. And that was the sort of context. I wasn't, you know, parsing exact legal meanings of words. That's not my expertise.
- Q. And you're not asserting that -- that the SRBA decree doesn't have legal significance, you're just looking at the historical development of these water rights; is that right? McConnells' water right.
- A. So the -- you know, my understanding from the discussions that you and I had was that the transfer was represented to better conform the SRBA decree to what should have been claimed, what existed historically as of 1987.

1	And so and then that was confirmed when
2	I read similar statements in Mr. King's report. So
3	my my effort was to see if that was a correct
4	representation, if the transfer did what it was
5	represented to do.
6	Q. And in terms of McConnells' water rights on
7	the SRBA, they filed late claims on the SRBA; correct?
8	A. Yes, very late claims.
9	Q. Do you know what year that was?
10	A. They filed them in 2014.
11	Q. Okay. And in your evaluation of those
12	water rights, did you find information about the
13	diversions on Stroud Creek, including the Kauer Ditch?
14	A. I did.
15	Q. And is that the Tim Luke information you've
16	referred to before?
17	A. Yes.
18	Q. Okay.
19	A. The Tim Luke information was from the
20	claims files.
21	Q. Okay. Did you review aerial images as
22	summarized in your report as well?
23	A. I did.
24	Q. Okay. And what was the purpose for that?
25	A. So the purpose for

1	MR. BROMLEY: Mr. Cefalo, I'll just continue to
2	sustain my objection from the beginning that this
3	entire line of questioning, again, is irrelevant. We
4	have testimony, again, explaining that this transfer
5	was not filed to correct a, quote/unquote, "clerical
6	error," as mentioned by Mr. Contor. The entire line of
7	questioning has, again, nothing to do with the transfer
8	that's in front of you that was filed with the \$1,700
9	filing fee, as opposed to the \$350 filing fee.
10	MR. HARRIS: Mr. Contor has not testified that
11	it was filed under 42-221.08. He's just trying to
12	verify whether the lower point of diversion did exist
13	at the time, whether it was listed in any prior water
14	rights. And that's been, I think, brought up by
15	Mr. Bromley and others. So I think it's relevant.
16	THE HEARING OFFICER: Mr. Manwaring, any other
17	parties want to weigh in on this objection?
18	Yeah, Mr. King's report included evidence
19	about the existence of the lower ditch in 1986 aerial
20	photos. And he established that it could have been
21	included in an adjudication claim in the SRBA. I find
22	that it's relevant.
23	You can continue with this line of
24	questioning.
25	MR. HARRIS: Okay.

1 Based on your review, did it look like the Q. section 20 POD or the lower POD, did you look at it to 2 see if it was existing in 1987? 3 4 Α. I did. Okay. And what did you conclude? 5 I agree with Mr. King, that that -- there 6 Α. 7 was a diversion there. 8 You also performed an injury Q. Okay. analysis with this transfer; is that right? 9 10 I did. Α. Okay. And did you conclude that approval 11 12 of this transfer without certain conditions would injure Whittaker's 74-157? 13 I did. 14 Α. 15 Okay. And why -- why is that? 0. 16 There's -- there's two lines of reasoning. Α. 17 And I think the easiest, and particularly with Mr. Bromley's discomfort with historical, is so look at 18 19 the present --20 MR. BROMLEY: Objection. Making statements about my, quote/unquote, "discomfort" has nothing to do 21 with responding to Mr. Harris' statement. 22 23 THE HEARING OFFICER: I agree. Go ahead. THE WITNESS: I apologize. 24 So if you have a condition like this where 25

- if this is a stream coming up and this is another stream, if you have a place here that is not authorized to divert water, then the water right associated with this unauthorized place has no ability to call upon -- a call made upon that point of diversion has no ability to cause curtailment up here.
 - Q. (BY MR. HARRIS): Uh-huh.
 - A. But if that were to then become authorized, then a call made to deliver that water right would have the ability to cause this water right to be curtailed. And that's the situation of the 74-157 right, that right now it's not able to be curtailed to satisfy McConnells' rights. And if the transfer approved, it would. And that would be -- that would be a detriment to the enjoyment of 74-157.
 - Q. So it would give administrative access to a stream of water that physically it doesn't currently have; is that right?
- A. That's -- that's correct.
- Q. Okay. And again, you didn't go down and visit where Stroud Creek came into Lee Creek --
- 22 A. No.

Q. -- you didn't go down to that area?

For purposes of administration today, do

you think that administration should be based upon

1	what's physically happening on the ground or what
2	historical maps may or may not have shown?
3	A. I think physically on the ground is the way
4	the watermaster would have to make his or her decision.
5	MR. HARRIS: Okay. That's all the questions I
6	have.
7	I would move to admit Exhibits 151 through
8	153 into the record.
9	THE HEARING OFFICER: Are there objections above
10	and beyond those that were raised either already
11	verbally today or within your motion in limine?
12	Mr. Bromley
13	MR. BROMLEY: So
14	THE HEARING OFFICER: any other objections
15	that you would want on the record?
16	MR. BROMLEY: Well, Hearing Officer, why don't
17	we you know, before Mr. Harris moves to offer and
18	admit, why don't we let the cross go around the table?
19	THE HEARING OFFICER: I'd I'd be okay with
20	that.
21	Do you have any problems?
22	MR. HARRIS: Yeah, that's unusual.
23	Are you objecting and asking questions in
24	aid of an objection?
25	MR. BROMLEY: No. I'm just interested to get

1 the cross in prior to you offering them and having them 2 admitted in. But you're saying you'd want to have them 3 4 offered and admitted in and then have the cross stem off of that? 5 That's just how I've usually done 6 MR. HARRIS: 7 I've laid a foundation for my expert reports. 8 move to have them admitted. 9 MR. BROMLEY: My typical experience in these 10 hearings has been that we've been taking it up at the 11 end when we have exhibits that we haven't stipulated 12 to. 13 THE HEARING OFFICER: We've done it -- I've done 14 it both ways. 15 MR. HARRIS: Okay. 16 THE HEARING OFFICER: I don't feel strongly. 17 MR. BROMLEY: Okay. 18 THE HEARING OFFICER: Mr. -- so you may have additional objections, is that what you're saying? 19 20 MR. BROMLEY: No, I was just surprised to hear 21 it being done that way. THE HEARING OFFICER: 22 Okay. So, you know, if we want to do it 23 MR. BROMLEY: 24 procedurally that way, Rob, that's fine. 25 THE HEARING OFFICER: Yeah, we can -- let's talk

1	about admission just right now.
2	Mr. Manwaring, did you have any other
3	objections that weren't already expressed in your
4	written motion to join the motion in limine?
5	MR. MANWARING: Just the ones we put on the
6	record at the beginning of day yesterday concerning
7	materiality and relevance
8	THE HEARING OFFICER: You bet.
9	MR. MANWARING: in light of the fact that
10	we're dealing with a ditch that has no decreed right or
11	point of diversion, period.
12	THE HEARING OFFICER: Okay. Those objections
13	are noted in the record.
14	I will admit Exhibits 151, 152, and 153
15	into the record at this time.
16	(Exhibits 151 through 153 admitted.)
17	THE HEARING OFFICER: And so we can proceed now
18	with cross cross-examination.
19	We'll start with you, Mr. Bromley, that
20	Protestants have an opportunity, too,
21	Ms. Foster, Mr. Johnson, to ask any questions, if you
22	have any, of Mr. Contor also.
23	Go ahead, Mr. Bromley.
24	MR. BROMLEY: Sure.
25	///

1	CROSS-EXAMINATION
2	BY MR. BROMLEY:
3	Q. So hi, Mr. Contor. How are you?
4	A. Pretty good. Thank you.
5	Q. Chris Bromley on behalf of the McConnells.
6	Okay. So you you stated previously,
7	then, that Exhibits 152 and 153 were not written in
8	response to the transfer that was filed; correct?
9	A. That is correct.
10	Q. All right. And we know that because the
11	dates of the reports. So 152 was authored by you on
12	July 17, 2020; 153 was authored on July 20th, 2020.
13	Does that sound about right?
14	A. I think so. You know, we can look at the
15	dates, but that sounds about right.
16	Q. Okay. And Exhibit 151 was written on
17	March 26th of '21, so less responsive.
18	So we know that by the dates and by your
19	testimony, then; correct?
20	A. Yes.
21	Q. Okay. So let's just go back to 151, Bryce.
22	And in your testimony you stated that this was a
23	clerical error correction.
24	So what I'm curious about is when I read
25	your attorney's response to motion in limine and/or

1	motion to strike on page 17, referencing "The first
2	third page of page 2" and I'm reading here from the
3	response, "The first third page of page 2 of Contor's
4	injury report describes that one of the stated purposes
5	of the transfer was that it was filed pursuant to Idaho
6	Code 42-221.08. The inclusion of the statement is the
7	result of poor communication from Whittakers' counsel
8	to Contor, as it was McConnells' prior transfer that
9	was submitted on that basis, not the transfer 84441."
10	Skip down to the next sentence, "We apologize for this
11	error."
12	So my question is, did you review the
13	transfer or was it communicated to you by counsel that
14	the transfer was filed as a, quote/unquote, "error
15	correction"?
16	A. So so thank you for the opportunity to
17	clarify.
18	I did not testify at this hearing today
19	that I thought that the transfer was a clerical error
20	correction. I did put that in this report. And
21	Mr. Harris has taken some blame that partly belongs to
22	me.
23	What happened was that he called me on the
24	telephone. He said that there's this transfer that's
25	represented to correct an omission in the record, the

1 transfer number is 84441.

I went to the IDWR website. I queried

Transfer No. 8441. I pulled up the only transfer

application that at that time had been scanned and been

made available to the public. And I -- that transfer

did have that box checked. And as I read through that

transfer, I thought, number one, it doesn't talk about

a section 20 POD. Number two, it looks like it's

already been approved.

And so then I called Mr. Harris and I said,
"I think I'm reading the wrong transfer."

And he said, "Well, I will send you the correct one." And then he e-mailed me a copy of application 84441. And in my mind I conflated the two, and I -- this was a mistake, this -- these first two paragraphs were a mistake.

However, the rest of the document does speak to the represented purpose of the -- of the transfer. The transfer, as represented by Mr. King and by testimony, is to restore it to the decree, a point of diversion that has never been on IDWR's records, has never been decreed, has never been described in a water right, but I think we all agree historically existed.

And so the rest of this is in the context of if that is what the transfer purports to do, does it

- do it correctly? And I approached that from the framework that I described in the document.
 - So I apologize that I erroneously said that the transfer was represented as a clerical error correction. But I believe the analysis is appropriate to what the transfer has been represented to be in this hearing, which is to add a point of diversion that was omitted for whatever reason.
 - Q. And it was also signed by Roger Warner, when I look at page 11.
- 11 A. Yes.

- Q. And so then a second set of eyes looked at this and didn't catch it.
 - So again, there isn't a clerical error correction that's occurring here?
 - A. I agree. I believe that Mr. King's representation is more accurate, that the claims that were prepared by a consultant for -- for the McConnells somehow did not include a point of diversion that they should have, and that this transfer is an effort to correct that omission.
 - Q. So a plain language review of the Reddington decree doesn't have anything to do with putting in a -- asking for a new point of diversion, not to correct the decree -- because we'd be in the

1 SRBA if we were correcting the decree; correct? So, you know, that's a legal term that I 2 Α. probably don't understand. What I know is that when I 3 4 worked for the Department of Water --So, Mr. Contor, if we were trying to 5 correct the decree, would we not be in the SRBA? 6 7 I do not know. Α. 8 That's fine. Q. Okay. 9 Yeah, I do not know. Α. 10 The map on Exhibit 24, you stated, Q. 11 Mr. Contor, that many ditches were not included on the 12 quad. 13 Α. Oh, that will be better. I think I need 14 these glasses. 15 THE HEARING OFFICER: Uh-huh. (BY MR. BROMLEY): But, you know, which 16 0. 17 ditch do you see in section 20 or section 30? 18 I believe I see the lower ditch. Α. Okay. 19 On the quad? Q. 20 Α. Yes. Okay. And it -- you know, in your 21 Q. experience, Mr. Contor, is it common to see every 22 diversion put onto a USGS quad? 23 24 Α. No. And I think we have an example here. 25 Q. Exactly. So we have an example of the

1 lower diversions appearing on the quad? 2 Α. Yes. But the upper diversion, which is on the 3 4 decree, is not on the quad? 5 Α. Yes. In your Exhibit 151, Bryce, I think 6 Q. Okay. 7 it's Figure 2. Yeah, it looks -- are we looking at the 8 same? 9 Yeah. Α. 10 Okay. What are these -- the white, Q. Okay. are they diamonds? 11 12 Α. So that's the GPS track of all the places that I walked or drove or rode in July of 2020. 13 Okay. And so then the northernmost points 14 0. 15 are on a horizontal line there in section 30. 16 Do you see those? 17 Α. Yes. 18 0. Where were you? 19 So I was on that east-west road that we Α. have talked about where Mr. Whittaker placed culverts 20 many years ago. And that's as far north as I went. 21 22 And do you recall how many culverts you 0. 23 saw? 24 Well, I thought -- my recollection was that Α. I had only seen one. But I was not looking for 25

- culverts. And I think that I would rely rather on Whittaker's testimony than my own recollection.
 - Q. So we have some conflicting testimony.

 You're saying you think you saw one. Mr. Whittaker is saying there were two. Ms. Yenter said there were three.
- 7 So I was just curious --
- 8 A. Yes, so --

- 9 Q. -- if you could resolve -- Mr. Contor, just 10 a moment.
- I was just curious if you could resolve the conflicting testimony. That was my only question.
 - A. Yeah, so -- so I'm not testifying that I saw two -- or one, rather. I'm testifying that I recall only one, but that to resolve the testimony, I -- I believe that the eastmost channel -- I think what confused me is I recall riding in the -- in the side-by-side we dipped through a channel that had no culvert. I believe that was probably the eastmost channel. And I incorrectly attributed that memory also to the center channel.
 - I think that of the three conflicting versions, Whittaker's is likely the most correct. But I don't see how it has anything to do with anything.
 - Q. And, Mr. Contor, all I was trying to find

1 out is was there a way to resolve -- you know, 2 Ms. Yenter said she saw three. Mr. Whittaker says 3 there are two. 4 MR. HARRIS: I'm going to object. (BY MR. BROMLEY): Only question. 5 It's not his job to resolve the 6 MR. HARRIS: 7 testimony. The testimony is what it is. So I don't --8 when you say "resolve," I don't know what it is you're 9 asking him. 10 THE HEARING OFFICER: Noted on the record. I 11 don't have any problem with the questions that were 12 asked. Yeah, I thought they were all right. 13 MR. BROMLEY: Okay. 14 0. So, Mr. Contor, you were then down here in 15 this middle area of section 30 on your way points, as 16 you call them. 17 Let's look at Exhibit 154, and that's the colorful map. 18 19 Α. Yes. So on Exhibit 154, to me it looks like the 20 21 map confluence is down where you were on those way points where the culverts were. 22 23 Does that look about right to you? 24 Α. It's certainly in the same vicinity, yes. 25 It's, yeah, certainly close. So the Q.

1 culverts are there. If you channelize streams, in your 2 3 experience, with a culvert going in a direction and a 4 direction, what happens below the culverts with the 5 stream? So the culvert can accelerate the velocity. 6 7 And so for some distance downstream there may be some 8 enhancement of the channel. If it's fairly flat 9 gradient and low flow, it may not make any difference 10 at all. Yeah. Did you look over the culvert into 11 0. 12 that area? 13 Α. You know, I -- I glanced around. again, the culverts had nothing to do with the purpose 14 15 that I was down there. And so I did not -- I did not 16 spend any time evaluating north of that point. 17 On the -- you're familiar with quad maps; Q. 18 correct? 19 Α. Yes. 20 0. When you look at the elevations on the quad map in that -- that area, are -- is there a lot of 21 elevation change on the quad maps down there in that 22 23 section 30, section 20? What do you see with the 24 contour lines? 25 Well, so they're 40-foot contours, so Α.

1 they're not adequate for describing any kind of subtle But they tell me that northeast is downhill 2 change. 3 and that the gradient is, you know, fairly constant 4 along that section, that as you get into the upper reaches of these creeks, the gradient is steeper than 5 it is down there. 6 7 Okay, Bryce, let's -- let's talk 0. 8 about Exhibit 153. Did you say 153 or 2? 9 MR. HARRIS: 10 I did, yeah. I'm sorry, Rob. MR. BROMLEY: 11 THE WITNESS: Okay. 12 MR. BROMLEY: 153. 13 Q. Are you -- Bryce, are you saying that the west springs ditch blocks the channel of Stroud Creek? 14 15 Α. Yes. 16 0. Okay. And were we looking at -- was it 17 Figure 11? I think that's what -- we were talking about Figure 11 and how -- is that -- is that Cal 18 19 Whittaker yard where the two yellow dots and the red 20 dot at the south end of your way points, is that where 21 the diversion, the headgate is on Stroud Creek? 22 Α. Yes. 23 And then -- and then water is then Q. Okay. 24 moving down into the jungle, and there are ditches that are bringing it back up. 25

1	Is that then is it the Floyd J.
2	Whittaker Ditch? Is that
3	A. So on the 1954 map
4	Q. Uh-huh.
5	A there are at least three ditches, and
6	perhaps more, that are labeled Floyd J. Whittaker
7	Ditch. But one of those is so if you start in the
8	northwest quadrant, there's a sort of W-shaped ditch
9	that snakes along, and it joins my my GPS trail.
10	That is one of the ditches labeled Floyd J. Whittaker
11	Ditch, which I have called the east springs collector
12	ditch.
13	Q. Okay. And is is it this
14	A. Yes.
15	Q. Okay.
16	A. Yeah, we're talking about the same thing.
17	Q. Right. So the red the red line that
18	sort of moves from west to east that's further to the
19	north on Figure 11; is that correct?
20	A. Yes.
21	THE HEARING OFFICER: And, Mr. Contor, west
22	springs collection ditch?
23	THE WITNESS: Oh, yes.
24	THE HEARING OFFICER: That's okay. I just want
25	to make it clear.

1 THE WITNESS: Yes, I apologize. 2 THE HEARING OFFICER: West springs collector 3 ditch. 4 THE WITNESS: I've been making that mistake 5 since July. 6 Q. (BY MR. BROMLEY): No, thank you. Just 7 trying to get the plumbing on the ground. Α. Yes. 9 That's all I'm trying to figure out. 0. 10 So water would be flowing to the west, and 11 it's then picked up in this west springs collector 12 ditch that brings it back to the east? 13 Α. So -- so the -- at the farm yard water that is not diverted to the point of diversion -- or to the 14 15 pipe intake marked in blue proceeds to the northwest and, as Mr. Whittaker said, fans out. But the general 16 17 direction of flow is still to the northwest. And this ditch that you had me identify, 18 19 the east-west curved ditch, that captures the water and 20 carries it east to intersect the traces of the other 21 ditches. And then from there the water continues more north, but still a little bit of eastern component, and 22 23 then turns back a little to the northwest until it 24 reaches that northern area where there are the yellow boxes and the red circles.

1 And then I think you referred to 0. Okay. 2 that as the hilltop split? 3 And that's my name. But I call that the Α. 4 hilltop split. And I heard Jordan talking about a 5 Sure. Continental Divide. 6 7 Is that -- I'm just wondering, are those 8 sort of the same things, the hilltop split, does that 9 mean water that goes to the east goes into Big Eight 10 Mile, water to the west might go back into Stroud? So the Continental Divide is a linear 11 Α. 12 feature. What I call the hilltop split is a point on 13 that linear feature that at that point, yes, water that 14 goes east is in the -- in the top of a tributary to the 15 Big Mile -- Big Eight Mile, water that goes west is in 16 a basin that would be tributary to Lee. 17 So on Exhibit 154, Bryce, which is the Q. colorful engineer's map --18 19 Α. Yes. 20 0. -- where approximately is this, is the hilltop split? And if there's a number on that map 21 that kind of corresponds with it, if you could --22 23 THE HEARING OFFICER: Or a letter. 24 0. (BY MR. BROMLEY): Yeah, or a letter. So there's a small letter -- it's 25 Yeah. Α.

1 either a "v" or a "w," that's between the circled 2 numbers "23" and "27." That's the approximate 3 location. 4 THE HEARING OFFICER: Okay. 5 (BY MR. BROMLEY): Okay. Thank you. That's what I call the west spring, 6 MS. YENTER: 7 or I mean the west -- the bypass. 8 (BY MR. BROMLEY): Can you follow the Q. 9 divide ridge, do you see the red divide ridge that 10 starts --11 Α. Yes. 12 -- southwest of section 31 and then it 0. 13 moves northward? 14 Is that hilltop split on the -- on the 15 divide ridge? 16 It is. Α. 17 Okay. So then water -- you know, as I Q. understand it from the prior testimony, and are -- do 18 19 you understand it that the channel of Stroud Creek is -- it ends at the -- at Cal Whittaker's yard and 20 21 then disappears for some time, water then, though, is going into the -- into the ditch system; is that what 22 you understand? 23 24 Α. Yes, that is. 25 Okay. So then water that ends up in the Q.

1 Floyd J. Whittaker Ditch or water that's intercepted by the west springs ditch, there's then this division 2 3 point at the hilltop split where decisions, I quess, 4 then are made with water that would otherwise appear to be Stroud Creek water could be moved over to the Big 5 Eight Mile drainage or water could be presumably kept 6 7 in the Stroud Creek drainage; is that right? 8 Yes, that is right. Α. 9 And to me on that map it looks like the 0. 10 Floyd J. Whittaker -- which side of the divide do you see the Floyd J. Whittaker Ditch after the hilltop 11 split? Which -- which side of the divide is it then 12 13 on? 14 Α. So it's on the -- on the Big Eight Mile 15 side. 16 Okay. So that's the east side of the map 0. 17 moving into the Big Eight Mile drainage? 18 Α. Yes. 19 Thank you. Q. Okay. 20 So then water that is Stroud Creek water that ends up in the Floyd J. Whittaker Ditch ends up in 21 the Big Eight Mile drainage; correct? 22 23 Α. It can, yes.

with Mr. Harris about Exhibit 153, you talk about the

24

25

0.

Okay. Bryce, in your testimony with --

1	measured capacity of the Kauer Ditch?
2	A. Yes.
3	Q. And I believe you attributed it to luck in
4	your in your report?
5	A. Yes.
6	Q. What goes into calculating a channel
7	capacity to render a number going one way or another?
8	A. So the there's three things. One could
9	be imprecision in measurement of the geometry, and
10	particularly there was no flow. And so I had to
11	ascertain what I thought was the typical water level
12	from the appearance of the banks.
13	And if I were too low, then that would
14	reduce the calculated capacity. If I were too high,
15	that would increase it.
16	Another is that I scaled the slope off of
17	the topographic map. You know, if I did that
18	incorrectly or imprecisely, that could result in
19	imprecision.
20	Probably the biggest is there's a
21	coefficient describing the roughness of the channel.
22	And if you get that wrong, then it will scale the
23	results up or down.
24	And I think in my my July 2020 report I
25	put some fairly wide brackets of uncertainty on my

1 estimate. 2 Q. Okay. Thank you. If there were areas of the ditch that had 3 4 low spots, would that also affect the outcome? Well, so if I had -- if I had measured --5 you know, if I had measured the cross-section in an 6 atypical section, so a short section that had a 7 8 different slope than I calculated for the long section 9 of the ditch, yeah, a slope -- a slow-moving spot of 10 the ditch might have a greater cross-section area and a fast-moving ditch might have a smaller cross-section 11 12 area, relative to the average. 13 Again, this was a -- you know, a quick reconnaissance level. If I had wanted to really nail 14 15 it down, I would have taken multiple cross-sections and 16 I would have been much more careful. I probably would 17 have got an instrument to determine slope rather than scale off of that. 18 19 Q. Okay. Thank you. 20 During your testimony, Mr. Contor, in relation to Exhibit 152, which is the east springs 21

A. So it's -- it would -- by -- if you mean by tributary that east springs water would reach Eight

report, you stated that east springs is tributary to

22

23

24

25

Big Eight Mile?

1 Mile Creek on the surface, I didn't really pursue that question. But if not diverted, the direction that the 2 east springs water would have moved would have been 3 4 downgradient towards Big Eight Mile. Okay. So then if diverted, where is east 5 6 springs going? So currently if diverted it can be brought 7 Α. 8 to that hilltop split, and then it can be put in any of 9 the places any other water that reaches there can go. 10 So then if undiverted it would -- in Okay. 11 your opinion, it would go into the Big Eight Mile 12 drainage? 13 Α. Yes. 14 0. But you would agree, would you not, that 15 Water Right 74-157 states that those springs are 16 tributary to Lee Creek? 17 It does say that on the face. Α. Okay. And how do you go about changing the 18 0. 19 face of the water right? A transfer proceeding if -- if there's not 20 an active adjudication that allows you to use other 21 22 mechanisms. 23 MR. BROMLEY: Okay. Thank you. 24 Nothing further. Thank you. 25 THE HEARING OFFICER: Okay. Go ahead,

1	Mr. Manwaring. Do you have questions for this witness?
2	MR. MANWARING: I do, yes.
3	THE HEARING OFFICER: Go ahead.
4	
5	CROSS-EXAMINATION
6	BY MR. MANWARING:
7	Q. Bryce, with respect to the transfer
8	application that's before the Department today, why are
9	we even discussing the Kauer Ditch?
10	A. So, you know, as I explained in my report,
11	I go back to my training making water right
12	recommendations. And that training was it was
13	drilled into us, I think Ms. McHugh and Mr. Bromley
14	were part of the team drilling that into my head, is
15	that our job was to represent in our recommendations
16	the water right as it existed as of November 1987. And
17	that includes the entire package of how the water was
18	distributed and administered.
19	And there is a condition, a physical
20	condition, at the west springs that affects whether
21	water coming down that drainage would ever reach Lee
22	Creek. And the existence of the Kauer Ditch is the
23	most likely explanation of that physical condition.
24	And so if I were tasked with making this
25	water right conform to how I would have been instructed

1	to recommend it in the adjudication, all of those
2	historical, physical parts of the distribution of that
3	water right, even the lower diversion, which was, you
4	know, never decreed or never recorded in the Department
5	of Water Resources, should have been represented.
6	And so the discussion of the Kauer Ditch
7	really is an explanation of how it is that water that
8	came down the Stroud Creek or the Left Fork Lee Creek
9	channel would not have been part of the supply for that
10	water right.
11	Q. You're not suggesting that the Kauer Ditch
12	needs to be reinstated here?
13	A. No.
14	Q. And you're not suggesting there's any water
15	right that McConnells or Whittakers have to the Kauer
16	Ditch?
17	A. So I don't know about the second question,
18	but I'm certainly not suggesting that it has to be
19	reinstated.
20	Q. Do McConnells have a right to the Kauer
21	Ditch, a water right to the Kauer Ditch?
22	A. So right now there is nothing recorded.
23	Q. Do the Whittakers have a water right to the
24	Kauer Ditch?
25	A. Not that I know of.

1 And when you looked at the Kauer Ditch, did 0. you actually see that it had been blocked off? 2 3 So I did not see that it had actually been 4 blocked off. I saw that water was bypassing it. I 5 didn't have any indication whether that had occurred by chance or purposefully. 6 7 You didn't -- you didn't see where it had 0. 8 been blocked off physically with dirt, did you? 9 Α. So it was -- water was prevented from 10 entering the Kauer Ditch by a dirt bank. I couldn't determine whether that was a result of natural 11 12 processes or human intervention. 13 Q. There wasn't a headgate there in use any 14 longer? 15 So there was a headgate there, but water Α. 16 wasn't -- didn't go far enough for that headgate to be 17 functional. Was the headgate in place or pulled out? 18 0. 19 It was in place. It was physically, you Α. 20 know, there in the -- in the channel, in the vicinity. 21 It wasn't pulled out? Q. No, it didn't look pulled out to me. 22 seen photos of other headgates that may have been, but 23 that one was not. 24

25

Q.

And in your determinations of gradient or

1 capacity, I think your testimony was you calculated a theoretical gradient? 2 3 Well, the gradient was based on the 4 The capacity was a theoretical calculation. maps. 5 Okay. So you were relying upon the USGS gradient in making your own calculations of the 6 7 capacity? 8 Yeah. Yes. The USGS -- the gradient Α. 9 derived from the USGS map was one of the parameters 10 that went into the calculation. 11 Were there any watermaster reports from 12 historical sources that talked about any water flow through the Kauer Ditch, measurable water flow? 13 I did not look for those, other than the 14 Α. 15 document from Mr. Luke that we've talked about. 16 So you don't know if there are any of those 0. 17 around or not? 18 Α. I don't know. 19 And if you will go back to Exhibit 153. Q. Why don't you look at Figure 11. And you were talking 20 about the rather serpentine shape of the collection 21 22 ditch in the west springs. 23 Α. Yes. 24 And you walked that, according to your GPS,

you're following that course?

Yeah, the western -- probably the western 1 Α. 300 feet I did not walk. There was no brush in there. 2 And I could see that direction, but I didn't walk --3 4 from that point east clear to the end of that ditch I 5 walked. Did you see any devices in there, wood 6 devices, that had trees or brush running through them? 7 8 I don't recall any wooden structures in Α. 9 that stretch, no. 10 See any dead cows in the ditch? Q. 11 Α. Not there. 12 Where did you see one? 0. I think it was further north we came across 13 Α. a -- Mr. Whittaker said, "That's where that bull went." 14 15 Further north, where would it be, then? 0. 16 So I think it was off this map. Α. 17 It's off this map? Q. 18 Α. Yeah. 19 It's not in that area where that collection Q. ditch is? 20 21 Α. No. So off this map being --22 Q. Further north. 23 Α. 24 0. How close to the diversion point of the McConnells was the dead cow, the dead bull? 25

1 So probably a mile, because I didn't get Α. that close to McConnells' diversion. And, you know, it 2 3 wasn't important to what I was doing, so I didn't 4 really make any note of where it was. And I really 5 don't recall that well now exactly where it was. How would you describe the flow of that 6 7 collection ditch through there? Is it free flowing? 8 Is it choked? 9 The collection ditch? So it's a very flat Α. 10 ditch, so the gradient is low, the flow is slow, but it was not choked when I observed it. 11 12 It was not -- I'm sorry? 0. 13 Α. Choked. 14 0. Choked. Okay. Seemed free flowing, as far as you could tell? 15 16 Α. Yes. 17 Now, there was some discussion from the Q. 1954 engineer's map that you also looked at, and there 18 19 was this red line that you've just been discussing with 20 Mr. Bromley that was a ridgeline through there. So that's the -- 154, is that the --21 Α. 22 Q. Yes. 23 Α. Okay. Okay. That's the divide ridge, that ridgeline 24 Q.

25

at --

1	A. Yes.
2	Q. Has sinuous look to it bisecting the area?
3	A. Yes.
4	Q. You mentioned in your testimony regarding
5	Exhibit 153 that you also did some topography, you did
6	some measurement.
7	Did you measure any topography relating to
8	that divide ridge?
9	A. Not relating to the divide ridge. It was
10	so pronounced that I could see it with my eyes, but I
11	didn't evaluate it.
12	Q. And the flow of Stroud Creek, the natural
13	channel coming from the canyon up there flows directly
14	towards that divide ridge and then moves more north
15	from there; correct?
16	A. Yes.
17	Q. Would that be consistent with the
18	topography, it would have to move in that direction?
19	A. No.
20	Q. Where would it have to move to be
21	consistent with the divide ridge?
22	A. So in the farm yard, that's a point where
23	the natural topography could allow Stroud Creek to go
24	either direction. And currently it is going to the
25	east. There's a natural topography that could either

If that

1 allow it to go east, but there's also natural 2 topography that could coalesce, and there's also -- it currently is going west. There's natural topography 3 4 that could allow it to go east. And I need to write a "W" on one hand and 5 an "E" on the other. But it is what it is. 6 7 I'll tell you, you know which one's the 0. 8 left foot and the right foot; right? 9 I have that problem also. Α. No. 10 So they -- the current flow, though, Q. Okay. 11 is to the west? 12 Α. The current flow is to the west. 13 Q. When you say there's some topography that would allow it, what do you mean by that, then? 14 15 Α. So -- and Mr. Whittaker talked about this 16 vesterday: In the farm vard there is the channel of 17 the -- the flow of Stroud Creek currently as it comes from the southeast goes through the farm yard, and on 18 19 its west side is a fairly high bank of earth. There's 20 a narrow gap in that bank of earth that proceeds through that, and immediately after that is that 21 22 headgate. 23 When the headgate is open, it proceeds on the westernmost of two channels; when it's closed, it 24

proceeds on the easternmost of two channels.

narrow gap had not been there, then from that point there is a topographic depression that you can see standing on the ground that trends to the northeast.

And I followed that on foot to the northeast, and that's actually the only place in the vicinity of the farm yard that I found a residual channel. And they're in a clump of willows north of the fence. Then that depression turns into a defined channel. And that -- that channel goes to the northeast towards the Big Eight Mile drainage.

- Q. And that's a channel you have an opinion on that was the Stroud Creek natural channel at one point?
- A. So my opinion is is that, you know, pre-human intervention, it's likely that at times

 Stroud Creek went to the east and at times Stroud Creek went to the west. And my opinion is that is most likely a residual of one of those times that it went to the east.
 - Q. It would depend on the flow?
- A. Well, I think what it would depend on would be what sort of natural reworking occurred during high-water events and then which path the water happened to find as the flow receded after a high event.
- Q. Now, you heard some testimony yesterday, I

1	believe Jordan talked about the fact that between the
2	actual Lee Creek channel and the Stroud Creek channel
3	there's also a topography that's an elevation between
4	those two.
5	Do you remember that?
6	A. I do.
7	Q. Did you observe any of that?
8	A. I did.
9	Q. What did you observe?
10	A. So I didn't go as far north as
11	Mr. Whittaker did, but where I went, you know, it was 2
12	or 3 feet at minimum. And there were places where you
13	were standing in in either of the creeks or on
14	either bank the rise between would be so high you
15	couldn't see to the other.
16	You know, the further south you go, the
17	further upstream you go, the more pronounced the
18	topographic divide between the two channels becomes.
19	Q. And if I understand correctly, you didn't
20	make it all the way down to see where the confluence
21	was of Stroud Creek and Lee Creek?
22	A. That's correct.
23	Q. If we can go to Exhibit 151. Page 3 of
24	that exhibit, you reference a 1911 decree.
25	A. Yes.

Q. What -- what's the significance of that determination?

- A. So the 1911 decree made a determination of the relationships of -- of the water rights on Lee Creek and at least some of the tributaries. I don't know if it was inclusive of all.
- Q. And what was the result of that decree determination?
- A. So it assigned priority dates to water rights. It specified some special relationships. One of them we heard testimony about yesterday. There's another one that makes a particular water right, and subordinate only to flows below the second ditch that -- that truncates the natural channel of Stroud Creek, the western natural channel of Stroud Creek.
- Q. Are you talking about the language in the water rights that discuss the pro rata sharing of water in the 1880s?
- A. So that's what was discussed yesterday.

 But there's an additional provision that it's Water

 Right 367 has a particular condition that subordinates

 it to water above where the Bohannan Ditch truncates

 the natural western channel of Stroud Creek.
- Q. On page 6 of Exhibit 151, you talk about the Department of Water Resources' instructions to a

1	watermaster from an August 6th, 2020 letter?
2	A. Yes.
3	Q. You'd already testified that you had no
4	reason to dispute the conclusion that Stroud Creek
5	enters Lee Creek below the McConnell diversion.
6	But you didn't explore that, from what I
7	gather?
8	A. I did not.
9	Q. Why would you have no reason to dispute
10	that, then?
11	A. I think that you know, I've known Cindy
12	since what? 1997? 1996?
13	MS. YENTER: At least.
14	THE WITNESS: Cindy works carefully, and I have
15	no reason to suspect that she would take an
16	administrative action without good reason to do so and
17	without working carefully.
18	Q. (BY MR. MANWARING): So it's based upon
19	your understanding of the person and their character?
20	A. Well, I guess you could say it's faith in
21	the process.
22	Q. Okay.
23	A. But on the and additionally, I don't see
24	any convincing physical evidence that that would
25	make that, you know, questionable or seem unreasonable.

Q. Okay. And that goes to another point of questioning I have for you.

When you were there traversing through these areas, did you see anything in the Stroud Creek channel that suggested that it had multiple channels just in the recent history? You mentioned one historical one that you mentioned.

A. Yes.

- Q. But any others?
- A. So the flow that comes from the hilltop split is intercepted by the remnant of the Bohannan Ditch. And for a short distance it's all confined in that ditch. And then it begins to break out, and overtop that ditch there's a distance of -- I don't know -- an eighth of a mile where there are multiple little rivulet channels being cut into a meadow that eventually coalesce into what appears to be a historical channel.

But other than that, no, I didn't see evidence of -- of multiple channels of Stroud Creek.

- Q. Okay. On page 8 of Exhibit 151, you start your injury analysis.
- A. Yes.
- Q. You talk about on -- and I think the carryover's now on page 9, about supplies to other

1 water users and interference with other water rights, that section? 2 3 Α. Yes. 4 The other water users you're specifically Q. talking about are the Whittakers' use on the west 5 springs apparently? 6 7 The entire 74-157 right, yes. Α. 8 Okay. Would the same problem with Q. 9 curtailment of right apply to anyone else further 10 upstream from Whittakers on Stroud Creek? 11 Α. Yes. 12 Same injury? 0. 13 Α. Yes. As long -- a junior upstream would be 14 affected, yes. 15 On page 10 of your Exhibit 151 in 0. Okay. your "Conclusions" section, that first paragraph in 16 your conclusion talks about "increasing McConnells' 17 enjoyment by giving administrative access to waters at 18 19 west springs, which historically were not delivered." 20 When you mean administrative access, what 21 are you talking about? So the ability to make a call that would 22 result in upstream juniors on Stroud Creek being 23 24 curtailed. And so if this application's approved, that 25 Q.

1	kind of result would occur?
2	A. In my opinion, it would.
3	Q. And that would give McConnells access to
4	water historically that they did not have access to
5	before?
6	A. Yes.
7	Q. Now, in that third paragraph under the
8	conclusion that begins with the words "The
9	application," you talk in there about a point of
10	injection.
11	Can you explain what you're talking about
12	there.
13	A. Yeah. So at the hilltop split the water is
14	all in ditches. It's no longer in the stream channel.
15	And from there when Whittakers turn water down to go to
16	McConnell, it again enters a stream channel, and that's
17	a point of injection. And I don't see that that's
18	authorized by any water right anywhere.
19	Q. Okay. So that's what you're discussing, is
20	the flow of the Stroud Creek waters after it comes out
21	of that manmade channel into the natural channel again?
22	A. Yeah. Out, yes.
23	Q. That's a point of injection?
24	A. Yes.
25	O. Okay. You then go on to say that

1 "Inexplicably, the application does not seek authorization for this diversion delivery and injection 2 3 necessary." 4 And tell me what you under- -- what you were trying to convey with that. 5 Yeah. 6 Α. 7 What's your problem with the application? 8 So for -- for the water to be delivered, Α. 9 you know, to increase the enjoyment that that 10 administrative access would create, water has to be carried in -- in human-made ditches beyond that 11 12 obstruction. And for some reason there was no 13 provision made in the transfer application to authorize 14 that. 15 So you see that as a deficiency Q. Okay. 16 somehow? 17 Α. Yes. Okay. Now, if we can go to Exhibit 153. 18 0. 19 If you'll look at Figure 2. 20 Α. Yes. 21 Now, this is an expanded view of your Q. roaming? 22 23 It is. Α. And it looks like down at the bottom there 24 0. there's some numbers, you've got "2" and "3," and then 25

1 up further you have sequential numbers going higher. Is there a number "1" that's not showing 2 3 here or... 4 There -- probably number 1 was a failed way Α. Sometimes on those GPS points if you push the 5 button and it hasn't quite yet acquired a satellite 6 7 fix, it will plot someplace strange. And I expect 8 that's what it is. You know, we could pour through the text. And Mr. Cefalo could do that and see if I 9 10 reference a way point 1. But I don't know that answer 11 right now. 12 Okay. Down there at the area 2 or 3, where 0. 13 are -- where are you roaming? What's -- what are you 14 looking at down there? 15 So area 2 is the -- point 2 is the heading Α. of the Kauer Ditch. Point 3 is a crossing. 16 17 probably the point where I measured the dimensions of 18 the ditch. 19 Then I see you go somewhat away from the Q. 20 Kauer Ditch and go continuing along its course north; is that correct? 21 So that is correct. 22 Α. So you didn't walk the entire Kauer Ditch 23 Q. this time? 24 No, I probably -- you know, looking at it 25 Α.

- all, probably half of it. And I -- I rode with

 Mr. Whittaker in his side-by-side. I didn't walk that

 part.
 - Q. Okay. And when you get up to the Kauer Ditch, it looks like you come to a T-intersection in your travels?
 - A. Yes.

- Q. Where were you going on that to the west?
- A. So Jordan was driving. I think he was looking for a better road to get up to the diversion.

 The road we ended up taking was a little bit of a bumpy ride. But that's -- that's my recollection.
- Q. Okay. So is it fair to say that this figure, then, is based upon your travels when you were with Jordan in the side-by-side? Is that accurate?
- A. So it's all my travels. Some of it I was driving in my own vehicle. Some of it I was with Jordan in his side-by-side. You can kind of tell how fast we were moving by how close together the dots are. You know, it records every so many seconds. It's all -- all of the above.
- Q. Okay.
- A. And after -- some people have to work for a living. And so after Jordan went back to work, I did additional exploration on my own that he wasn't with

1 And that was all on foot or in my own car. me. 2 Q. Okay. I want you to look at Figure 5 on that same exhibit. 3 4 Α. Okay. 5 This is where you're making some measurements of the Kauer Ditch; right? 6 7 Α. Yes. And I notice that the bed of that ditch is 8 Q. 9 cobbled? 10 Α. Yes. 11 How consistent is that geographic feature, 12 that cobbling, with the rest of the area up there where 13 even below the injection point from Bohannan Ditch, how [unintelligible]? 14 15 So it's more cobbly in the south, in the vicinity of the Kauer Ditch, than it is further north. 16 17 Further north where that Bohannan Ditch was, where the point of injection is, you know, none of the cobbles 18 19 were that big. It was gravelly, but it was smaller -smaller material. 20 21 These are -- would you say have some pretty good sized to them, these rocks that are in there, 22 23 these cobbles? In Figure 5? Yeah, those are -- they're 24 Α.

25

pretty good size.

1	Q. And just to make sure we're clear, on
2	Figure 7, same exhibit, you show a point of injection
3	from the Kauer Ditch into the Right Fork of Lee Creek?
4	A. Yes.
5	Q. And this is based on the 1954 engineer's
6	map; correct?
7	A. Yes.
8	Q. Is that the Right Fork or could that be
9	Porcupine Creek?
10	A. It's Porcupine. And I think I miscorrectly
11	identified it in one of the written reports as Lee.
12	But it is Porcupine it is now called Porcupine. Or
13	it's labeled it's now labeled on the maps as
14	Porcupine.
15	Q. Okay. If you'll go to Figure 12 on the
16	same exhibit.
17	And where are we at
18	A. So
19	Q on this view?
20	A we're in the farm yard. We're
21	immediately north of that diversion gate. This is the
22	channel when the gate is open, this is the channel
23	that conveys the Stroud Creek water north into that
24	area where it spreads out. So this is the water that
25	Whittakers are not diverting at the farm yard.

- Q. Is this -- to use your phraseology, is this
 the injection point or --
 - A. No. This would -- this would be a measuring point along the channel, I think would be the best water right description of it.
 - Q. Oh, okay. Is this the channel that's the natural stream channel or the ditch channel?
 - A. So, you know, legally I don't know what it is. Physically it is the channel that conveys water north if it doesn't go to -- to Whittakers' diversion in the farm yard. It's where the water goes now.
 - Q. Okay.

- A. And it looks like it was originally human made to me by a couple of criteria. But, you know, that's -- it is what it is. You can see it as well as I can see it.
 - Q. Okay. And that's Stroud Creek?
- A. That's Stroud Creek water, yes.
 - Q. Okay. Now, if you'll look at Figure 13, tell me where we're at there.
 - A. So we're in that area of diffuse flows. So the Figure 12 channel, you can see it goes north and there's a fence. Once it crosses the fence, the flow is spread out and diffused. And this is just a picture of some of that area where that diffuse flow is kind of

1 tearing up a wetland area. Is that the same with Figure 14? 2 Q. That's the same with Figure 14, yes. 3 Α. 4 And Figure 15 is what? Q. So Figure 15 is in that channel, if you --5 Α. if we went from the Figure 12 location and went north, 6 that's on that channel between Figure 12 and the area 7 8 where the flow fans out. 9 So this Figure 15 is before you get 0. Okay. 10 to the fan-out part? Yeah, upstream of the fan-out. 11 Α. Yes. 12 Okay. What's significant about a head 0. 13 cutting in a private ditch? So, you know, a private ditch may be a 14 Α. 15 misnomer. It's that channel, whatever legal status it But the significance of head cutting is head 16 17 cutting occurs when a longstanding flow regime changes and the stream is trying to re-equilibrate to a larger 18 19 flow regime. 20 And so this is -- this was an active occurring head cut, which means that it's been subject 21 to some recent change in flow regime. 22 23 Okay. And that could be attributed to any Q.

Well, so it means that water is being sent

number of factors or...

Α.

24

1 down this channel that historically was not. Okay. Okay. I think that's all 2 MR. MANWARING: the questions I have. Thank you, Bryce. 3 4 THE HEARING OFFICER: Anything? 5 MR. JOHNSON: I think I'm good. THE HEARING OFFICER: Okay. Well, I do have a 6 7 couple questions. 8 THE WITNESS: Okay. 9 10 **EXAMINATION** BY THE HEARING OFFICER: 11 12 Mr. Manwaring asked just right here at the 0. end a few that I had. 13 14 And I think it's helpful maybe to start at 15 Figure 2, because it --16 Okay. Α. 17 -- again, kind of the broad overview of --Q. of the math that you walked, especially from -- from 18 19 the Cal Whittaker yard kind of up to the north through 20 the willows. And maybe, actually, why don't we turn to It zooms in a little bit more on that --21 Figure 11. 22 Α. Yes. 23 -- spot at Cal Whittaker's place. Q. 24 So I -- your report and your testimony is the first that I've heard that there actually are two 25

1 There's a weir on down in the Cal Whittaker yard, a weir for the ditch, the Whittaker Ditch --2 3 Α. Yes. 4 -- headed off for diversion, but there's Q. also a weir on the natural channel side now too? 5 So there's -- when I was there, yes, there 6 7 were two weirs there, and then there were an additional 8 two at the hilltop. So there's -- I saw four 9 altogether. 10 Okay. You observed four. But you had just 0. 11 testified, based on Mr. Manwaring's questions, that the 12 water flowing north through that -- through that north 13 channel, the water that's not diverted by Whittaker is Stroud Creek water? 14 15 Yes, it is. Α. 16 It continues on, and that's what's measured 0. 17 across that weir just above the red dot? 18 Α. Yes. 19 So then you -- you followed up -- so I do Q. 20 want to look, then, up at the hilltop structure. You also testified, and in fact you were 21 here to hear both, I guess, Merritt Udy and Jordan 22 Whittaker talk about what's going on at that hilltop 23 divide --24 25 Α. Yes.

1	Q or that divide structure?
2	There's a control structure up there. And
3	if I recall Mr. Udy's testimony correctly, he had
4	there was a situation where Mr. McConnell had asked for
5	additional water, and Mr. Udy had come and made an
6	adjustment to this this control structure in the Cal
7	Whittaker yard and then realized that no water was
8	getting there. And Mr. Udy had testified that he then
9	was informed that he actually needed to make the
10	adjustment down at this hilltop structure.
11	A. Yes.
12	Q. You you recall that?
13	A. Yes.
14	Q. So then as water is turned out of that
15	structure, Mr. Contor, you walked that, and so you
16	you followed those drops of water, you followed that
17	return water to the north?
18	A. Yes, I did.
19	Q. And that's represented in this red solid
20	red line
21	A. Yes.
22	Q that follows there's some green
23	triangles that follow along?
24	A. Yes.
25	Q. So as you get up to kind of the very north

1 end of this map, there's some -- there's some green triangles that go crisscross --2 3 Α. Yes. 4 -- kind of back and forth? Q. 5 And if I read through your report correctly, you ran a transect there, and it was 6 identified -- I think it's shown in Figure 20? 7 8 Well, yeah, 20 is the points, and then Α. 21. 21 is the transect. 9 10 That's right. Q. 11 Α. Yeah. 12 Yeah, those two together. Figure 20 and 0. So you had said map of Bohan Ditch transect. 13 21. So in this Figure 20 you can see visibly on 14 15 here a channel with probably water in it at the time on the eastern side or the right side of this map? 16 17 Α. Yes. But you also found something on the left 18 0. 19 side of that kind of narrow -- narrow channel, I guess, 20 or that valley coming through there? 21 Α. Yes. And that's represented, then, in Figure 21, 22 that you actually would say, I guess, in that location 23 there are really two channels coming through that area? 24 That's correct. 25 Α.

1 You know, earlier in your testimony 0. Okay. 2 you had said as you had followed this Bohan Ditch up 3 you couldn't find any trace of any natural channel, but 4 at least in this transect there appeared to be kind of 5 two -- two channels running south to north --And so --6 Α. 7 -- in that area? 8 -- I may have misspoken. From the Bohan Α. 9 Ditch north, the water was not flowing any -- in any 10 defined channel. This channel, this channel here at like 115 feet horizontal distance, that's a very 11 distinct and defined channel. But there was no water 12 It looked like there had not been water for a 13 in it. long time, from the grass, you know, the sod -- robust 14 15 sod in that -- mat in all of the channel. The only water observed -- and you have a 16 ο. 17 water elevation line -- was in the easternmost channel? 18 Α. Yes. 19 And that one seems to be a pretty narrow Q. channel --20 21 Α. It is, yeah. -- compared to what --22 0. 23 Α. Yes. 24 0. -- was to the west? Did -- did you continue down the dry 25 Okay.

1 channel at all in your -- in -- I'm trying to recall. 2 Α. No, I did not. It would have been a clever idea, but I did not. 3 4 So you can't, then, testify where that dry Q. 5 channel ends up? 6 Α. No. 7 Okay. Let me -- there was one other 0. 8 question on these figures that I wanted to ask you about. 22 -- 22. Oh, where -- where on this -- so if 9 10 we go to Figure 22. Can you help me know where that -- where 11 12 that Bohan Ditch transect falls, because it doesn't 13 match any of these other transects. But where does it fall spatially on this map? 14 15 Α. So it would have been -- and I'd have to go 16 back to my GIS and plot my points on this, but you --17 there is -- sort of in the center there's a Q to R 18 transect. 19 Uh-huh. Q. 20 Α. And then north of that is an S and T. 21 Yes. Q. That hand -- so -- and these were just DEM 22 But the hand transect, or measured 23 evaluations. 24 transect, was in that vicinity. I think it was probably between those two. But, you know, I could be

- mistaken. It could have been a little north of S-T or a little south of Q-R.
 - Q. Okay. Just -- just to the -- just to the east of Q, there's kind of a narrow channel or a narrow valley that forms, at least that's showing kind of as far as a wetland area headed from south to north.

And you're saying that it's probably in that -- in that band?

- A. So just east of Q, you said?
- Q. Just east of the Q blue dot, yes.
- 11 A. Yeah. So where the -- where there's a
 12 mapped channel, it was right in that vicinity.
 - Q. Okay. Good.

- A. And I think -- I'm sure that my transect crossed that mapped channel. I don't know how far north and south it did, but I'm sure that it crossed that channel.
 - Q. Okay. Thank you.
- Mr. Contor, you've had a chance to review not only McConnells' water rights, the water rights included in the application for transfer, but you've also reviewed Whittakers' water rights. Not only Water Right 157, but also other water rights that Whittaker holds.
- A. So for this process I didn't review any of

1 Whittakers' other water rights. 2 Q. Oh. In 2006 I assisted with an amended claims 3 4 focused on places of use. So I really have not evaluated all of Whittakers' water rights. And really 5 with McConnells' rights, I gave a cursory look at 6 Mr. King's review, but I focused on the transfer 7 8 application. 9 Are you familiar enough with the Whittaker 10 water rights out of Stroud Creek or the Left Fork of 11 Lee Creek to answer questions on those? 12 Not a lot of questions. I can answer some Α. 13 perhaps. I'm trying to recall where -- I think it 14 0. 15 was in Mr. King's report. Why don't we look there, if 16 you've got that. 17 Α. That's Exhibit 1. I think he included a -- just a 18 0. Yeah. 19 quick list of the water rights held by Whittaker. 20 he may have included -- I think he included water 21 rights that may have even been for Eight -- Big Eight 22 Mile Creek. 23 Α. Mine only has the cover page, but I probably --24

Here.

UNIDENTIFIED SPEAKER:

1	THE HEARING OFFICER: Great.
2	UNIDENTIFIED SPEAKER: [Unintelligible.]
3	Q. (BY THE HEARING OFFICER): So this would be
4	the last page of Appendix A. So as you start working
5	through that report there, yeah, some blue pages
6	appendices, and Appendix A is just an overall summary
7	of the various protestants' water rights.
8	A. Okay.
9	Q. So on here he identifies, of course, at the
10	top 74-157
11	A. Yes.
12	Q which we've you've already spoken
13	quite a bit about.
14	And then there are these three water
15	rights. The source in two of them is Left Fork of Lee
16	Creek. The source on the other is Stroud Creek, as
17	we've heard.
18	A. Yes.
19	Q. That's the same same source. So
20	Whittakers have three water rights out of that Stroud
21	Creek.
22	Do you know where that authorized point of
23	diversion is located?
24	A. So it's mapped in the farm yard.
25	Q. Okay. So I guess my question for you is,

- with what you've heard as part of this hearing so far
 and your -- you know, you're familiar -- to the extent
 that you're familiar with the Stroud Creek water rights
 held by Whittaker, what -- do the Whittaker water
 rights currently reflect the irrigation practices
 taking place on the Whittaker property?
 - A. So up until the administrative actions of 2020, I think they probably do. But that's with the caveat that I have not gone back and reviewed all the place of use.

- Q. Okay. So do you -- do you see anyplace where the Whittakers' water rights should be updated or corrected in any way?
- A. I think that -- you know, I don't know the nature of the correction, but I think that the current representation of 74-157 doesn't match what all the -- all the testimony I've heard and all the physical evidence I have seen suggest has been the historical practice.
- Q. Okay. In your -- as you walked the Stroud Creek channel and observed flow in Stroud Creek, do you believe that there are times when the flow in Stroud Creek exceeds the 4.4 cfs authorized by Whittakers' rights in the Cal Whittaker farm yard?
 - A. In the Cal Whittaker farm yard?

1	Q. Do you think the flow would exceed
2	4.4 cfs
3	A. Yes.
4	Q during certain times of the year?
5	A. Yes.
6	THE HEARING OFFICER: Okay. Those are the
7	questions I had.
8	Mr. Harris did you have any follow-up
9	questions?
10	MR. HARRIS: I have no follow-up.
11	THE HEARING OFFICER: Based on my questions,
12	anything else?
13	MR. HARRIS: No.
14	THE HEARING OFFICER: Okay, Mr. Contor. Thank
15	you.
16	THE WITNESS: So do you want this back, Scott,
17	or should I leave it here for
18	UNIDENTIFIED SPEAKER: Yes, please take it.
19	MR. BROMLEY: That's the exhibit book.
20	THE WITNESS: Did I give you the wrong book?
21	MR. BROMLEY: Yeah, you gave
22	THE WITNESS: May I have a break?
23	THE HEARING OFFICER: Yes, let's do.
24	(Recess.)
25	THE HEARING OFFICER: Okay. Welcome back.

1	We're back on the record.
2	So, Mr. Harris, if I understand correctly,
3	we've reached the end of your presentation of evidence?
4	MR. HARRIS: Correct.
5	THE HEARING OFFICER: Okay.
6	So, Mr. Manwaring, on behalf of the
7	Tomchaks, if you would like to then move forward with
8	presenting your evidence.
9	MR. MANWARING: Thank you.
10	I think first we'll begin with talking with
11	one of the other protesters. Shanna Foster had I
12	talked with her, and she had some information to share
13	about a question that came up yesterday about calls for
14	water, so
15	THE HEARING OFFICER: So are you calling her as
16	a witness, or are you just saying maybe we handle her
17	presentation of evidence first?
18	MR. MANWARING: I think we just handle her
19	presentation of evidence first, and then
20	THE HEARING OFFICER: I'd be fine with that. We
21	can do that.
22	So, Ms. Foster, come on up. And as a
23	protestant, you're allowed to participate in this
24	hearing and make a statement on your own behalf, so as
25	a witness.

1	SHANNA FOSTER,
2	having been called as a witness by Protestant Smith 2P
3	Ranch, was duly sworn and testified as follows:
4	
5	THE HEARING OFFICER: Ms. Foster, do you
6	solemnly affirm that the testimony you're about to give
7	is be the truth, the whole truth, and nothing but the
8	truth?
9	THE WITNESS: Yes, I am.
10	THE HEARING OFFICER: Okay. Have a seat. And
11	you can again provide that testimony in narrative form.
12	THE WITNESS: Okay.
13	
14	DIRECT TESTIMONY
15	BY MS. FOSTER:
16	So yesterday you asked if we had ever been
17	called upon our water for McConnells. And we have
18	never been called upon. We just get a text or a call
19	thing, you're turned on, you're turned off.
20	The and go walking down through from our
21	weir down to Ericssons' weir, it's the channel's all
22	one. From Ericssons' weir down to Whittakers', going
23	down through Ericssons' place, the channel goes all
24	over. It's I'm sure we're losing a lot of water to
	Over. It's I'm sure we're losing a lot or water to

1	our end that we don't get water for.
2	And then at a meeting five, six years ago,
3	we had Mr. Tomchak brought up whether the Kauer
4	Ditch was a legal ditch or not. And at that time the
5	water person that was there said no, it wasn't, that
6	McConnell would have to abandon that ditch.
7	And at that time McConnell said that he
8	would like to have his water checked at the lower
9	diversion. And everybody kind of agreed upon that,
10	except Mr. Whittaker said that we'll probably regret
11	that.
12	So over the next five years we have noticed
13	that our water has gone substantially down to three
14	days, if we're lucky at that.
15	And Mr. King suggested that there was some
16	property that I was not irrigating. I just don't have
17	the water anymore to get to that property to irrigate
18	it.
19	And that's about all I have.
20	
21	EXAMINATION
22	BY THE HEARING OFFICER:
23	Q. The water rights I noticed for your
24	property are held in the name in your name, Shanna
25	Foster.

1 Uh-huh. Α. But the land, I guess, is held now by Smith 2 Q. 3 2P Ranch. 4 Can you talk us through the relationship between you and --5 Okay. It's me and my sister. And we're 6 Α. trying to go through to get it all like a ranch-type 7 8 thing. We don't have everything filed yet. But so 9 that both of us -- because if something happens to me, 10 she can just take over. It's with me and my sister. 11 Q. What's your sister's name? 12 Α. Jennifer Ayers. 13 Q. A-y-e-r-s? 14 Α. R-s, yes. 15 Q. A-y-e-r-s. Great. 16 And so you've -- you and Jennifer formed Smith 2P Ranch? 17 18 Yes, sir. Α. 19 Is it an LLC? Q. 20 Yeah, we're working on getting our 21 paperwork put through. 22 Okay. And registered with the State, then? 0. 23 Α. Yes. 24 Q. Okay. Α. I just don't have -- we don't have it done 25

1	yet.
2	Q. So so Smith 2P Ranch isn't really even
3	registered with the State yet?
4	Okay. And you intend to then convey, I
5	guess, or update, not convey or update
6	A. Yes.
7	Q the ownership of the water rights over
8	to Smith 2P Ranch at some point in the future?
9	A. Yes.
10	Q. Okay. How actively are you involved in the
11	day-to-day management of water on the ranch?
12	A. I live on the ranch right now.
13	Q. Okay. Does Jennifer live on the ranch?
14	A. No.
15	THE HEARING OFFICER: Okay. Great. I think
16	I've got a few other questions, but I think I'll offer
17	Mr. Bromley a chance to ask questions, and maybe circle
18	around the other parties here too.
19	Mr. Bromley?
20	MR. BROMLEY: So thank you.
21	
22	CROSS-EXAMINATION
23	BY MR. BROMLEY:
24	Q. Hi, Shanna. Yeah, Hearing Officer asked
25	basically everything that I was going to ask. I was

1 curious about the Smith 2P Ranch, what that was. One thing you said that was interesting, 2 you said at this -- I think it was at the 74Z meeting 3 4 five or six years ago, so that was in the 2014/'15 time I think we've heard about that meeting before. 5 I know I've heard about it from my client. 6 And I think what you said was that -- and 7 8 please tell me if I'm wrong, but I thought what you 9 said was that everybody agreed with Bruce that he 10 should be able to take his water down low except the 11 Whittakers? 12 Α. Yeah. 13 Q. Okay. And then your observation is -- from living up on the ranch is this -- the channels are 14 15 going everywhere? 16 Α. Uh-huh. 17 Q. Are you able to identify Stroud Creek anymore once it hits the Cal Whittaker place? 18 I mean you can't -- I mean it's hard to 19 Α. 20 tell where it's going. I mean to say okay, it's just this diversion or is it all these little 21 [unintelligible] go, you know. I mean coming down from 22 our place down to there, it is really -- I mean it's 23 24 just one channel down through there. But when it gets down below right in -- Ericssons' place is where I 25

1 mainly walk, you know, it just goes everywhere. 2 Q. Okay. 3 If we could put it all in one little thing 4 and send it down, everybody would probably get a little 5 bit more water. Okay. And -- and then the first thing that 6 0. 7 you said was that you'd never been called by -- called 8 on by McConnells. You just -- your water has just been turned on or off? 9 10 Yeah, I'm the type that figured the watermaster is the one in charge. He should take care 11 12 of it, and I try not to [unintelligible] -- do my thing 13 and go home and not bother anybody, so... 14 0. Yeah. And being in a water district, 15 that's what you'd expect? Yeah. 16 Α. So --17 Nothing further. Q. -- whether it's they're calling for it and 18 Α. 19 he just shuts me off, I don't know. I just know that we have it and we don't. 20 21 MR. BROMLEY: I have nothing further. 22 Shanna. 23 THE WITNESS: Yeah. 111 24 25 111

1	FURTHER EXAMINATION
2	BY THE HEARING OFFICER:
3	Q. How long have you how long have you been
4	there? Did you grow up on in that
5	A. Yeah.
6	Q area?
7	A. Yeah. My dad got the ranch when I was
8	about 10 years old.
9	Q. How long ago was that?
10	A. I'm 50. So that would have been about 40
11	years.
12	Q. Okay. So you've you've had, you know,
13	maybe 30 years, assuming as an adult, you've had
14	30-plus years kind of being familiar with water
15	delivery on on the ranch?
16	A. Yeah. I just took it over about ten years
17	ago. My dad passed away ten years ago.
18	Q. Okay.
19	A. And I moved up there and took over the
20	ranch
21	Q. Okay.
22	A and stuff. So I mean I've kind of been
23	around, you know, but the last ten years really that's
24	where I've lived.
25	Q. Okay. So in those ten years

1 Uh-huh. Α. 2 Q. -- what have -- maybe I should -- maybe I should start here. 3 4 Do you have multiple ditches that deliver 5 water to your property, or does it come off of one ditch? 6 One ditch. 7 Α. 8 One ditch that delivers water. Q. 9 So in those ten years, what -- just talk me 10 through, what has been your experience in getting water from Stroud Creek? 11 12 Α. I don't get it out of Stroud. 13 Q. Or Everson. 14 Α. I get it out of -- we just get it out of 15 Everson. 16 Out of Everson. Okay. 0. 17 And, you know, when I first got Α. Yeah. there, we'd have it for maybe 15, 20 days, and it's 18 19 just gone downhill more and more and more each year. 20 We did get a letter that we had to put a locking headgate and weir in. And we did that from the 21 22 water -- from the other water meeting, the board did. 23 So we did put that in. 24 0. So on a -- on a really good water year, at

the high end you'd have three, four weeks of water?

1 Α. We --2 Q. How many --I'd be dancing in the -- yeah, that would 3 Α. 4 be wonderful. So there's been some testimony about 2009 5 6 being a very good water year. 7 Yeah. Α. 8 I mean in a year like 2009, how much -- how Q. 9 long would you be able to be on in a year like that? 10 Probably about three weeks, a good three Α. 11 weeks. 12 And in a bad water year like 2012 or 0. Okay. 13 '13 that were both drought years, even up here --Yeah. 14 Α. Well --15 -- what's your experience in a drought --0. 16 drought year? 17 Well, even in a drought year, we'd at least Α. have it for ten days. You know, last year was our 18 19 worst year. We had it for three days, three to four 20 days. 21 THE HEARING OFFICER: Okay. Okay. Mr. Manwaring, do you have questions for 22 23 this witness? 24 MR. MANWARING: Yes, I do. 25 THE HEARING OFFICER: Yeah, go ahead.

1	CROSS-EXAMINATION
2	BY MR. MANWARING:
3	Q. Shanna, the meeting that was referenced
4	back in 2014 with the Water Department representative
5	being there, you were asked whether everybody agreed
6	that the McConnells could go from the lower diversion.
7	Were you aware at that time that that was
8	not a legal diversion?
9	A. No, I was not.
10	Q. Would that have made a difference to you at
11	that time?
12	A. Probably would have made a difference to a
13	lot of us. I don't think many of us knew that it was.
14	That's like when I asked Mr. Whittaker did he know that
15	it was an illegal diversion, and he wasn't aware of it.
16	So yesterday when I asked him.
17	Q. So any agreement or consent the other water
18	users had at the lower diversion is just based on an
19	incorrect understanding of the legality of that
20	diversion?
21	A. I believe so.
22	Q. You've been around this area long enough to
23	know have you been getting the snowfall that you
24	historically have received in that Everson drainage?
25	A. No. We're avid snowmobilers. And, you

- know, some years when you go up and you sink clear up to your waist or above, you know it's going to be a good year. This year we didn't -- hardly could make it off the bar plates because of the snow. It's just not there. Things are changing.
 - Q. What's that been like over the last same ten-year span that Mr. Cefalo was asking you about?
 - A. We've had some really good years, and then some really bad years. You know, it's kind of hit and miss for the most part, though years have been better.
 - O. What about since 2014?

- A. Since 2014? It's been going downhill very steadily. I mean it seems like our days are getting shorter and shorter and shorter of what we have our water, even with a good snowpack. When the water is high, we don't usually have any.
- Q. And do you know where the watermaster would measure to determine whether you actually get some water from Everson Creek?
- A. Well, I think he has to measure everybody on up to -- or out of Everson? He probably measures at Ericssons and McConnells, because it all runs into McConnells, because we're the short end of the stick. So I'm assuming it would be at McConnells and then Whittakers and then Ericssons.

1 Because of the south diversion point, the Q. 2 lower --3 Uh-huh. Α. 4 -- diversion point for McConnells; is that Q. 5 correct? 6 Α. Yeah. And since 2014 do you have a recollection 7 0. 8 of every year, what it's been like for your ability to 9 use water or access water? So like 2015, 2016, what 10 you had? Do you have good enough memory for that? 11 Well, I know what I paid on it. I paid 12 anywhere from \$100 to \$12. So -- so not really. 13 mean, yeah, I can't really explain -- I can't really 14 tell you exactly what years were good and what years 15 were bad. But you noticed last year I think you said 16 0. 17 you had two or three days? 18 Α. I think we got three days, three or 19 four days. 20 0. Okay. But you've never had anybody call 21 you, the watermaster, and say "McConnells are wanting some water, you have to shut off"? 22 23 No, sir. Α. 24 MR. MANWARING: I don't have anything else. 25 Thanks.

1	THE HEARING OFFICER: Mr. Harris, you can ask
2	this witness questions too.
3	
4	CROSS-EXAMINATION
5	BY MR. HARRIS:
6	Q. Shanna, Rob Harris, attorney for the
7	Whittakers.
8	Just I just want the record to be clear
9	just where your property is located.
10	Is your property east of Tomchaks'
11	property?
12	A. Yes.
13	Q. And you said this, but I just want to
14	confirm: Your water rights are out of Everson Creek?
15	A. Yes.
16	Q. And is that a ditch that's shared by you
17	and Tomchak?
18	A. Yes.
19	Q. Okay. And your property is south of the
20	Ericsson property?
21	A. Yes.
22	Q. And the Ericsson property has the farm yard
23	that we've been talking about; is that right?
24	A. Yes.
25	Q. Okay. The meeting that you're referring to

1	that was in 2014, was it the Water District meeting?
2	A. Uh-huh.
3	Q. And I didn't quite catch, what was the
4	agreement that was reached?
5	A. Well, just David had brought up "Is the
6	Kauer Ditch a legal ditch?"
7	And the person the water person that was
8	there representing said, "No, it's not. He'll have to
9	abandon it."
10	And McConnell says, "Well, I want my water
11	checked at the low diversion." And I guess everybody
12	kind of agreed on that. I didn't know there was two
13	diversions.
14	Q. And I think you testified that then after
15	that you've received less water?
16	A. Yes.
17	Q. So did you receive more water when the
18	Kauer Ditch was in operation
19	A. Yes.
20	Q or in use?
21	A. We didn't have seem to have a problem
22	then.
23	MR. HARRIS: Okay. No further questions.
24	THE HEARING OFFICER: Okay.
25	Mr. Johnson, you're still hiding back

1	there.
2	Did you have any questions for this
3	witness?
4	MR. JOHNSON: I do not.
5	THE HEARING OFFICER: Okay. Good. Thank you.
6	THE WITNESS: Yep.
7	THE HEARING OFFICER: And a note on the record,
8	Ms. Foster, you didn't identify any exhibits or any
9	other witnesses?
10	THE WITNESS: Huh-uh.
11	THE HEARING OFFICER: Okay. So that concludes
12	the presentation of evidence from Ms. Foster.
13	We turn now to Tomchaks.
14	MR. MANWARING: I'm seeing if we can get the
15	senior Tomchak on the phone.
16	THE HEARING OFFICER: I heard he might be on.
17	MR. BROMLEY: I think that may have been Candice
18	dropping off, but
19	THE HEARING OFFICER: Oh.
20	MR. BROMLEY: I would check.
21	THE HEARING OFFICER: Okay. Do we have anyone
22	on the line?
23	We're still connected, so
24	UNIDENTIFIED SPEAKER: They should be getting on
25	right now.

1	THE HEARING OFFICER: Turn this up. And I'd ask
2	you guys in the room, I think this is probably a pretty
3	good if Candice were still on, we'd ask her, but I
4	think it's got pretty good microphones. But if you'd
5	all speak up maybe a little louder because you've got
6	some distance here.
7	MR. BROMLEY: Yeah, she was able to hear a lot.
8	THE HEARING OFFICER: Great.
9	MS. YENTER: Good. I always worry about
10	MR. BROMLEY: Thank you for setting it up.
11	THE HEARING OFFICER: Uh-huh.
12	MS. YENTER: I always worry about that.
13	THE HEARING OFFICER: Do you want to pause?
14	(Recess.)
15	THE HEARING OFFICER: Okay. Is your dad? So we
16	are
17	MR. DAVID A. TOMCHAK: Can you speak up? It's
18	very, very
19	THE HEARING OFFICER: Go ahead.
20	MS. YENTER: I'm on.
21	MR. DAVID A. TOMCHAK: It's hard to hear you.
22	MS. YENTER: I'm on.
23	THE HEARING OFFICER: Okay. We are we are
24	back on the record.
25	And, Mr. Manwaring, you've got David A.

1	Tomchak on the phone.
2	MR. MANWARING: Thank you.
3	Can you swear him in on the phone?
4	THE HEARING OFFICER: I can.
5	Mr. Tomchak, as a witness, as
6	MR. DAVID A. TOMCHAK: Yes, I'm I'm the
7	witness.
8	THE HEARING OFFICER: What I was going to say is
9	that witnesses to these administrative hearings are
10	sworn in.
11	
12	DAVID A. TOMCHAK,
13	having been called as a witness by Protestant David R.
14	Tomchak, was duly sworn and testified as follows:
15	
16	THE HEARING OFFICER: And so will you verbally
17	affirm that the testimony you're about to give is the
18	truth, the whole truth, and nothing but the truth?
19	THE WITNESS: Yes, it is.
20	THE HEARING OFFICER: Great. Thank you.
21	So, Mr. Manwaring, you can proceed.
22	So what will happen I'm sorry,
23	Mr. Tomchak. What will happen is Mr. Manwaring will
24	ask you some questions, and then the other parties in
25	this case will have an opportunity to ask

1	cross-examination questions. And I, as the Hearing
2	Office, may ask some questions too. But we'll start
3	with Mr. Manwaring and go from there.
4	Go ahead.
5	THE WITNESS: Okay.
6	
7	DIRECT EXAMINATION
8	BY MR. MANWARING:
9	Q. David, can you hear me okay?
10	A. Well, I can hear you, but not really okay.
11	Go ahead. I have a little hearing problem.
12	MS. YENTER: Do you want to just come and sit up
13	here at the table?
14	MR. MANWARING: Yeah, we can move.
15	THE HEARING OFFICER: We can do that, too, yeah.
16	MS. YENTER: Come sit right here.
17	Mr. Tomchak, we're going to have
18	Mr. Manwaring come closer. Hang on just a minute.
19	THE HEARING OFFICER: Great.
20	THE WITNESS: Thank you.
21	Q. (BY MR. MANWARING): Is this better?
22	A. It is a little better, yes.
23	Q. Wonderful. Let's try this.
24	Now that you've been sworn in, if you'd
25	state your full name and spell your last name.

1 David A. Tomchak, T-o-m-c-h-a-k. Α. Okay. And is it okay if we call you "David"? 2 Q. 3 That's fine. Thank you. Α. 4 All right. How old are you, David? Q. 5 Α. I'm 82 years old. And how familiar are you with the property 6 Q. 7 that has water rights up on Everson Creek and Stroud 8 Creek? I'm familiar in the fact that I owned that 9 Α. 10 property for several years. 11 Did you first buy that property in January of 1977? 12 13 Α. Yes, I did. 14 0. And did you stay on the property after you 15 bought it? I lived in Leadore after I bought it. 16 Α. 17 Q. Okay. That's what I did when I bought it. 18 Α. 19 And at the time you purchased the property, Q. 20 did it have some water rights attached to it? It had high-water rights. 21 Α. And do you recall offhand just generally 22 0. what those rights were? 23 24 Not exactly, other than they were -- in the Α. earnest money agreement, it says, "Together with all 25

1 water rights, ditches, ditch rights, range rights, and everything therein therefore included." 2 3 Okay. Did you use --0. 4 Α. But it was high water. 5 Did you use water at your place out of Stroud or Everson Creek? 6 7 Α. Yes. Did you use it every year? 8 Q. 9 Α. Yes. 10 Who was the watermaster back in the 1977 Q. 11 era? Do you remember? 12 Α. Dick Foster. 13 Q. There has been some testimony, David, about a Kauer Ditch. 14 15 Are you familiar with the Kauer Ditch? 16 I'm familiar with -- with it, yes. Α. 17 When you bought your property in 1977, was Q. that ditch being used? 18 19 No. Α. 20 0. Do you have any knowledge of how long it hadn't been used? 21 It had been several years before that it 22 had been vacated, because there was sagebrush and stuff 23 growing in the channel where the ditch was. 24 there was no weirs or headgates or anything. 25 It had

- 1 been used an amount of years, but I don't know exactly. 2 I didn't own the property. 3 Was it used during the time that you owned 0. 4 the property? 5 It was opened up sometime later, probably five, eight, ten years later. The -- the people that 6 7 owned the ranch or ran the ranch or whatever, my 8 neighbors, had -- came in and opened it on the 4th of 9 July. 10 I can remember that because we were -- we 11 owned the store. We were quite busy when I went up 12 maybe Monday, Tuesday later after the 4th of July. 13 The -- they had come in with a backhoe and dug a 14 channel. 15 And is that channel from Stroud Creek or 0. 16 Everson Creek? 17 I think it was from Lee Creek. It was Α. right at the confluence of all three creeks. 18 19 And if -- if the information is that Stroud Q. 20 Creek and Everson Creek are the only two up in that
- A. No, because there was no headgates.

22

24

25

where we're at?

Q. After they dug a channel, was that channel dug along Stroud Creek or Everson Creek?

area where the headgate is, does that help you remember

1 It branched off and come to the -- all Α. No. the creeks were together at that -- in that point, and 2 then below that they -- they channeled out. 3 4 Okay. So below the confluence of Stroud Q. 5 and Everson Creek they branched off? Well, there was one that went straight down 6 Α. The other one went on the original 7 to Cal Whittaker's. 8 creek [unintelligible] bed. 9 And how long did the Kauer Ditch 0. Okay. 10 remain operational after they opened it? 11 I think it was operational -- I really 12 don't know. I think it might have been operational 13 after I even sold the property, but I'm not sure. 14 Q. When did you sell the property? 15 Α. Well, I can't tell you. That was -- I 16 can't remember. I sold it to my son. He would know. 17 All right. So it's been in the family Q. since you first bought it in 1977? 18 19 Right. Α. 20 0. Okay. Who was using the water from the Kauer Ditch during that time that it was reopened? 21 It was Treasure's [phonetic], as I 22 understood it. Melvin Treasure. 23 24 0. Treasure? 25 I'm not -- yeah, Treasure. Α.

1	Q. Okay. And did they have a water right to
2	that Kauer Ditch?
3	A. Not to my knowledge. I don't know who
4	had I think I thought they had owned the ranch
5	and that water came with that ranch. But it was done
6	over a weekend when it was reopened at that point in
7	time on the 4th of July weekend.
8	MR. MANWARING: Thank you. I don't have any
9	other questions. Somebody else might.
10	THE WITNESS: Okay.
11	THE HEARING OFFICER: Mr. Bromley, you're close
12	enough. Maybe you can just speak right there if you've
13	got any questions.
14	MR. BROMLEY: Sure.
15	
16	CROSS-EXAMINATION
17	BY MR. BROMLEY:
18	Q. Hi, Mr. Tomchak. Chris Bromley. I'm an
19	attorney for Bruce and Glenda McConnell.
20	A. Okay.
21	Q. Can you hear me okay?
22	A. Can you stay pretty close? Well, I can
23	hear you as good as I did the other younger guy. I can
24	hear you.
25	Q. So I'm going to come sit, then, where the

1 other attorney was sitting. I thought I was close 2 enough. Yeah, that's -- yeah, that's great. 3 Α. 4 Yeah, it's fun. We get to sit in the Q. 5 middle of this horseshoe and be right in front of 6 everybody. 7 So, Mr. Tomchak, I just want to make the 8 record clear. 9 Have you been at any of the hearing up 10 until the time you dialed in on the phone? 11 Α. No. 12 Okay. Thank you. 0. 13 Mr. Tomchak, you said that when you bought 14 the place it came with what you called high-water 15 rights? That's what I called them. 16 Α. 17 Yeah. What do you mean by that? Q. That's when the -- whenever there was a 18 Α. 19 certain amount of water, it was above what was already 20 decreed, we had a right to that water. Okay. So there's senior water rights, then 21 there are junior water rights. 22 23 Does that make -- am I saying something you understand? 24 Not completely, but --25 Α.

1 0. Yeah. 2 Α. -- I understand it. At my age there is [unintelligible], yes. 3 4 Okay. So your water rights -- when you're Q. talking about high-water rights, would you be saying 5 those were more junior rights? 6 Yeah, I would. 7 Α. 8 Okay. And then when the Treasures opened Q. the Kauer Ditch up, it seems like maybe that might have 9 10 been -- you said that it hadn't been used since at least 1977, and then maybe five to ten years later it 11 12 was opened up on the 4th of July. 13 Α. Right. So would that have been about maybe the 14 0. 15 mid '80s -- early to mid-'80s, I guess? 16 Α. '77. Yeah, it would be in that period of 17 time. And you mentioned --18 0. 19 A few years after '77. Α. 20 Q. Okay. Thank you. You mentioned that it was the Treasures who 21 22 did that; is that right? 23 The reason I have to think that it was the Α. Treasures -- I know it was the Treasures is that their 24 brother-in-law was -- or maybe it was a brother or 25

1 I don't know, was building a building for something. the school district in the town of Leadore. And he 2 also built the post office for us at the same time. 3 4 And he was -- he was a Treasure, Joe Treasure was his name. And he's the one that told us 5 that they -- he had went up there with the old Treasure 6 7 and he dug the -- the ditch. Actually, it wasn't a 8 full ditch. Probably 100 yards of ditch from where it 9 left the creek to our property, my property at that 10 time. 11 Do you -- Mr. Tomchak, do you know if the 12 Treasures were leasing that land down on Lee Creek, or 13 did they own it? 14 Α. I thought they owned it, but I have no 15 idea. 16 MR. BROMLEY: Okay. Thank you. 17 THE HEARING OFFICER: Okay. Any questions, 18 Ms. Foster? 19 Okay. Mr. Harris? 20 MR. HARRIS: No questions. 21 THE HEARING OFFICER: Okay, Mr. Tomchak. Do you have any follow-up questions? 22 23 MR. MANWARING: No. 24 THE HEARING OFFICER: That's all we have for 25 Thank you for testifying. you.

1	And you're free to stay on the phone,
2	because I think your son is going to take the witness
3	stand next. But the difficulty you may have
4	difficulty hearing him with the witness stand, so if
5	you want to sign off, you can sign off now.
6	THE WITNESS: Well, I'm going to listen and see
7	what he says.
8	THE HEARING OFFICER: Okay. That's fine.
9	MR. MANWARING: And if you yell out "Go to your
10	room," we know there's a problem.
11	THE HEARING OFFICER: Okay, Mr. Manwaring.
12	MR. MANWARING: We next call David A. Tomchak
13	or David R., another David.
14	
15	DAVID R. TOMCHAK,
16	having been called as a witness by Protestant David R.
17	Tomchak, was duly sworn and testified as follows:
18	
19	THE HEARING OFFICER: Okay, Mr. Tomchak. Do you
20	solemnly affirm that the testimony you're about to give
21	is the truth, the whole truth, and nothing but the
22	truth?
23	THE WITNESS: I do.
24	THE HEARING OFFICER: Great. Have a seat.
25	Mr. Manwaring, you can proceed.

1	DIRECT EXAMINATION
2	BY MR. MANWARING:
3	Q. Can you please state your full name and
4	spell your last name.
5	A. David R. Tomchak, T-o-m-c-h-a-k.
6	Q. And you just heard the testimony of your
7	father; is that correct?
8	A. That's correct.
9	Q. And he said that he first purchased this
10	property that you now own in 1977.
11	Do you remember that?
12	A. That's correct.
13	Q. So since 1977 has this same piece of
14	property been in your family?
15	A. It has.
16	Q. And you own it now?
17	A. I do.
18	Q. And you purchased it from your father
19	sometime in 1991 or around that area?
20	A. That's correct.
21	Q. And have you occupied it continuously since
22	your purchase of it?
23	A. Yeah, I've had use of the land. I haven't
24	lived on it, but I've owned the property and used it,
25	yes.

- Q. What do you use the land for? Every year what are you doing with it?

 A. I graze cattle on it or lease it out to
 - A. I graze cattle on it or lease it out to graze cattle. I have in the past. Just flood-irrigate the pastures and stuff that are on it. And I do have water.
- Q. How much pasture do you have to flood-irrigate?

5

6

14

15

16

23

24

- A. According to my water rights, I think it's
 like 65 acres. But -- but the amount of ground that I
 can get across, it will vary upon the years. So I have
 a lot more acres than that it could be watered,
 but that's what the rights are.
 - Q. Okay. And that irrigation water right, what source does that come from?
 - A. It comes from Everson Creek.
- Q. And you also have a water right on Stroud

 Creek?
- A. I do. And it's a -- basically a well-type
 right. They talked about it in the hearing before,
 anymore you have to file that on -- anybody's putting a
 house in or whatever.
 - Q. How familiar -- familiar are you with the Everson Creek drainage and the Stroud Creek drainage and the Lee Creek drainage?

1 I think at this point, just from listening Α. 2 to all the testimony, I'm probably more familiar with it than the experts. Probably anybody in this room. 3 4 Q. Okay. In my opinion, because I've walked it many 5 Α. 6 times. 7 Now, Everson Creek flows out of -- what's Q. 8 its headwaters area? Where's it come from? Everson Creek comes from Everson Lake. 9 Α. And 10 it is a natural lake that's about 4, 5 miles upstream 11 from my headgate. It's a deep lake. I'm guessing 12 about a half mile across. I don't know the exact size, 13 but it's a large tributary of water. 14 0. And what about Stroud Creek, what's its 15 headwaters area? Stroud Creek comes from what's called 16 17 Stroud Lake, which is a manmade lake. It was made probably 100-plus years ago with a team of horses. 18 And 19 there's an old cabin that's up there, and the people 20 that when they built, they used that cabin and lived in it while they built that lake. 21 There's actually two small lakes above 22 23 Stroud Lake that are more like ponds. But in size-wise, Stroud Lake is minute. It's not very deep. 24

25

And it's not a very big footprint on the ground for the

- amount of water that comes from it. So Stroud -- the amount of water is a lot less than Everson.
- Q. Are you familiar with the historic
 snowfalls at both of those areas, those headwater
 areas?
 - A. I know that -- like Shanna testified, I'm an affidavit snowmobiler. And on the years when there's a lot of snow, there's more water. And I ride in there -- even this winter I went in there, and I had to take a chainsaw with me to cut the trees, because there's not enough snow -- normally you can ride right over them on a snowmobile. I had to cut the trees to go into the lakes this year.

So I'm very familiar with the amount of snowfall amounts up in there, and normally how much water we'd get because I've ridden it. And it's like Shanna said, you get off your snow machine, you sink up to your waist or above that, you know you're going to have a good year. And vice versa, you know you're not going to have a good year if it's a lot less.

- Q. Does the snowfall differentiate in the Everson upper areas as opposed to the Stroud Creek upper areas?
- A. Definitely.

Q. What's the difference?

A. When you go into Everson on a snowmobile in the wintertime, you can ride right in, because the snow is -- once you go down the trail, it packs in.

And I have kids that have ridden snow machines since they were tiny, and they could ride the snowmobiles in and follow the trail in with us because the amount of snow covers all the rocks and trees and everything. You don't have to worry about them hitting something.

But if you run into Stroud Lake, there's boulders and rocks, and you can't get in there unless you're a really experienced rider to get in there.

It's -- it's -- and I know lots of very good riders, and they don't -- don't even want to go in there because it's so difficult because there's not as much snow in Stroud.

- Q. The flow out of Everson Creek, what would you say in comparison to that flow as to Stroud Creek's flow before they have a confluence?
- A. I would say by walking it and looking at it, the amount of snow coming is probably half the amount of snow coming out of Stroud as it does out of Everson, which is based upon the size of the creek and where they come together at that confluence.
 - Q. So you're saying there's more water flowing

1 in Everson Creek? 2 Α. By far. 3 Do you have a point of diversion on Everson 0. 4 Creek, or is it on Stroud Creek? My point of diversion is on Everson Creek, 5 upstream approximately a quarter mile or half mile from 6 7 where Stroud Creek comes in. And they form Stroud together. 8 9 Okay. And what -- describe your diversion Q. 10 What's -- like was it based on a measurable Is it a weir? 11 headgate? 12 Yeah, I've got a -- it's a regular, full Α. lockable headgate. I had the local welding shop in 13 In fact, I actually went on it when 14 Leadore build it. 15 I purchased it with Shanna when we was told we had to put one in. And it's a -- it's a big headgate. 16 17 setting on our ditch probably from me to the wall 18 downstream on our ditch. 19 And then -- so the amount of water that I 20 can control or the watermaster can control, you can see the stream. And it's easy to work with. He can ride 21 right to it with a four-wheeler. 22 23 Does it sit in the channel of Everson Creek Q. or next to it? 24 25 Next to it.

Α.

1 0. And that's the headgate? 2 Α. Correct. 3 Does that have a measuring device on it? **Q.** 4 Downstream from it, you can probably throw Α. 5 a tennis ball, and that's about the distance downstream is a -- we have a weir that we put in. And it's a 6 wooden, approximately 4 feet. And it is -- it's in the 7 8 pictures, I know, in some of the evidence. But it's 9 just a couple years old. It's -- all the watermasters 10 used it and seemed pretty happy with it, so ... 11 So you can measure flow of Everson Creek 12 below your headgate? 13 Α. Correct. The amount of water that's coming from -- if they open the -- open my headgate, I can 14 15 measure the water of how much is let through that headgate, but I can't -- I can't control how much goes 16 17 down the mainstream, because my headgate's on my ditch. Is there -- after the confluence of 18 0. Right. 19 Everson and Stroud, is there another weir in the channel of Stroud? 20 Right below -- there's an old cabin 21 Α. Yes. Right below that cabin is where 22 that's there. Rosalie's weir is -- or her -- excuse me, her headgate 23 is. 24 And that headgate was actually put in by Merritt

Udy and his dad, because they actually ran Rosalie's

1 ranch up til just a few years ago. And they put that 2 in around the time we put ours in. 3 Ours was a new one, easy to work. That was 4 like something they drug out of the field and the extra thing they just threw in there. So it's -- it does 5 have one, but there's one right there. And that's 6 7 right there above where you refer to as the Kauer 8 Ditch. 9 And is that in the channel of the Stroud 0. 10 Creek, or next to it? It's next to it. 11 Α. Stroud -- Stroud Creek 12 has easy flow right down through there. 13 Q. Okay. 14 Α. It doesn't impede it. 15 And is there a measuring device either at 0. 16 that headgate or below it? 17 Α. There is. The measuring device is downstream -- or down that ditch. I don't know the 18 19 It's just after it leaves my property, so exact. 20 probably 400 yards, approximately. But it's in the ditch? 21 Q. But it's in the ditch, yes. 22 Α. 23 Not in the stream channel? Q. 24 Α. Correct. 25 Okay. Now, there's been a lot of Q.

1 discussion about this Kauer Ditch. 2 To your knowledge, David, is there anyone with a right to use the Kauer Ditch? 3 4 It -- it was brought up at our water Α. No. 5 hearing, and like everybody said it. And I don't know if just memory's on different people, but James was the 6 hearing officer that was there that day when it was 7 8 shut off. And he was the one that said it needed to be 9 shut off, so... 10 Now, you're blaming James, being James the 11 Hearing Officer we have here? 12 Correct. Sorry. Α. 13 THE HEARING OFFICER: Likely not a hearing 14 officer. The Department sends people to water district 15 meetings, and I was likely just the IDWR 16 representative. 17 THE WITNESS: He was -- he was just overseeing excuse me. 18 19 THE HEARING OFFICER: Sorry. 20 THE WITNESS: Yeah. He was just overseeing that 21 hearing. From time to time they come up and just oversee a hearing. 22 23 THE HEARING OFFICER: Again, not a hearing. 24 THE WITNESS: Or --THE HEARING OFFICER: Annual Water District 25

1 meeting. 2 THE WITNESS: Our water meeting. Excuse me. 3 Sorry. 4 THE HEARING OFFICER: Yep, that's right. 5 (BY MR. MANWARING): I was going to ask him to make a correction. I don't think you were having a 6 7 hearing. You were having a water meeting. Water meeting, that's correct. Α. 9 All right. Was that in 2014? 0. 10 Α. Yes. 11 0. And at that water meeting you raised a 12 question as to whether that Kauer Ditch was a lawful 13 ditch? 14 Α. That's correct. 15 And Mr. Cefalo said no, it's not? 0. 16 That's correct. Α. 17 At that point in time is when the Kauer Q. Ditch was no longer used? 18 19 That's correct. And it has not been used Α. since. 20 It was leaking water last year, and the Whittakers went in with a trackhoe and basically 21 22 plugged it tight so they couldn't get any more water 23 down it, because it was trying to leak water. Because 24 when they stopped using it, all they did was just let the water go to its normal flow down through. 25

1 didn't do anything. And it was just leaking a little 2 water, so they plugged it up tight as a drum. 3 Okay. And it hasn't been used since 2014? 0. 4 Α. Correct. Now, you also heard from Shanna's testimony 5 that that 2014 water meeting, there was some discussion 6 amongst the water users as to whether the McConnells 7 8 could use a lower diversion. 9 Do you remember that discussion? 10 Yes, I do. Α. 11 At that time were you aware that the 12 McConnells had no legal right to a lower diversion? 13 Α. I was not. 14 0. Did you agree to allow them to use the 15 lower diversion at that meeting? 16 Based upon not knowing that it wasn't a 17 legal -- I thought it was their legal point of 18 diversion, so that's the only reason I allowed it. 19 So had you known it wasn't legal, you Q. wouldn't have consented? 20 21 Α. No. Now, David, have you actually physically 22 walked the channel of Stroud Creek to its confluence 23 24 with Lee Creek? I have. 25 Α.

1 0. On more than one occasion? 2 Α. Yes, I have. Have you documented that with photographs? 3 0. 4 I have. Α. And when was the most recent time that you 5 actually walked the entire course of Stroud Creek to 6 7 its confluence with Lee Creek? 8 The entire route from point A all the way Α. to the bottom? Last year. 9 10 What time of year last year? Q. It was during the time that the --11 Α. 12 basically, when the water was all shut off and we --13 like Shanna said, we got three days of water. And then 14 I seen water running through there like a lake, and I'm 15 wondering, Why is the water not -- why is our water 16 off, and there's water everywhere? So I walked down 17 through it. I did contact James and asked him, "If I 18 19 don't know where my water's -- or if I'm not sure why 20 is the water not getting to me, how can I know if somebody's getting their -- basically, how do I know if 21 they're doing it correctly?" 22 23 And he said, "Well, you can go look at those weirs, and you just see how much water is going 24 through the weir. If it's the right amount and they're 25

1 getting their water, it's all legal." 2 And so I just walked down through there to 3 point A, which is right there at the cabin, all the way 4 down to the lower -- all the way to the bottom. So --5 and I had chest waders on. So anybody that says, well, they went 6 7 through the briars. I went through the briars going 8 down through there, and I think anybody that's already 9 testified has been down there, when you -- I had chest 10 waders on, and it's a long walk. It's not just a 15 -it's a day to go. And it's only like maybe 3, 4 miles. 11 12 But it's a -- you're trudging through and pushing trees 13 out of the way to get -- staying in the streambed, of 14 course, or the apparent streambed at the time. 15 So this would be during the growing 0. Okay. 16 season last year? 17 Α. Yes. 18 MR. MANWARING: Can I approach the witness, 19 Mr. Hearing Officer? 20 THE HEARING OFFICER: Yep. That's fine. 21 (BY MR. MANWARING): David, you have exhibits, starting with Exhibit 301, and I think you 22 23 have some others at the table there that go with them. Those have been identified and already stipulated for 24 admission into evidence here. 25

1 But I want you to go through each one of those and explain exactly what we're seeing, what we're 2 3 looking at, so that everybody has a better perspective 4 of what that's portraying. So if you'll begin with 301. 5 301 is the weir right there in the farm 6 Α. 7 yard by Rosalie's area. And that is the Whittakers' 8 weir. And is that weir functional? You can 9 0. 10 measure water through that weir? 11 Α. Yes, it is. 12 Now, when you're talking about before in 0. 13 your testimony, starting at point A and going all the way down, is this point A? 14 15 Α. No. 16 Where is point A? 0. 17 Α. Point A is above, just right where Rosalie Ericsson gets her water. I've walked all the other 18 19 But when I actually walked it in one day, I areas. started right there, and walked all the way down 20 through -- I started at Rosalie's diversion and went 21 22 all the way down. 23 So --Q. And this would be downstream from where I 24 Α.

started approximately a mile.

1 0. And was this photograph taken on the day you were doing this walk? 2 3 Α. Yes. 4 And did you take the photograph? Q. Okay. 5 Α. Yes. If you'd look at Exhibit 302. 6 Q. Okay. 7 What is that? 8 That is the headgate associated to that Α. 9 first picture of the weir. This is the headgate that 10 controls the flow for that weir. And that headgate is -- it's in the main streambed. So as it lowers and 11 12 holds water back, it forces water kind of upstream and 13 into the channel that runs into the previous picture. 14 In fact, you can almost -- by the -- by 15 301, if you look in the background, you can see that that headgate is not controlling the water in the 16 It's controlling the water in the stream. 17 ditch. So the headgate you're talking about in 302 18 0. 19 is actually in the stream channel? Yes, it is. 20 Α. It's not offset from it on a ditch somehow? 21 Q. No, not at all. 22 Α. So if that headgate's fully closed, 23 Q. Okay. it is obstructing the flow of the stream itself? 24 25 Correct. Α.

- O. And that's Stroud Creek?
- A. That's correct.

- Q. Okay. Exhibit 303?
- A. Exhibit 303 is just below -- it is below -- in streambed, below where that headgate is. And it's where the water kind of recedes back into the trees, which is known as the springs. But when you walk down through there, the streambed is in some places as wide as this room and only that deep, and some places it's narrow and real deep. But it just -- that's where the start of the going down through Rosalie's.
- Q. So this is where it somewhat diffuses through those willows in that area?
- A. That's true. And I wasn't sure where all the measuring devices were. That's the reason I walked the whole thing, figuring I don't know where they're at, because I wasn't aware of all the -- basically all the -- it's pinned on maps and different things. I just figured you got to go down and find where the guy's headgate is or where his weir is and see if the water's there. And that's why I walked from point A to point B.
- Q. Do you feel you could successfully identify a channel as you walk through that area?
- A. Yeah.

Q. Why is that?

A. Well, when you're walking through it -well, at least the channel that's there now. It may
have been moved at some time. But the channel that's
there now, as it flows into the spring, it's -- it's
all overgrown in through there. It's not a cleaned-out
channel, so it's been slowed down for so many years
that it's allowed the channel to slow up.

But you can walk through there and find the deepest part and continue to walk through the thing.

It's not like it just stopped and that finger was a little -- there's a definite -- as you're walking through, there's always a deeper spot, and that's what I walked.

- Q. You could always find a sufficient deep channel to keep a course of the stream channel?
 - A. Yes, I -- yes, I could.
 - Q. All right. Exhibit 304.
- A. 304 was taken after all of the -- the -- after the McConnells applied to transfer their water downstream, I went up and basically wanted to see what the whole thing was about. So I wanted to go see where they were wanting to move it to and get the whole -- wrap my mind around it.

And Jordan Whittaker took me up prior to

this to show me where -- where this headgate that's in -- in that picture is. And picture 304, that is the McConnells' filed-upon headgate. And it's not in the ditch. It's pulled out of the ditch.

And if you look at the picture, which my wife took of me when we went up there that day, but that's where it should have been stuck in the ditch. It was pulled out. So -- and that's actually upstream of the Stroud tributary. When you walk down Stroud Creek, you're going to come in downstream of that.

- Q. Okay.
- A. And --

Q. We'll get back to that in just a second.

As you were walking through that more diffuse area in the willows but you could keep it main channel, did you come across any obstructions in the channel?

A. Yeah. I actually walked all through there, and I'd see where water would come in and meet it, like a ditch. So then I would walk up it so see, well, maybe this is coming from somewhere else. And it would come to a dead-end.

And now looking at the maps and all that, that was the big ditch that was dug below the springs to collect the water. And within that ditch there's a

1 spot, there was a bridge that was probably built a hundred years ago, that's crossing the ditch and had 2 3 trees growing up through it that were a foot -- well, 4 there were good-sized trees that were growing up 5 through it, basically making a dam out of it. Plus there's a dead cow in it. It was 6 7 blocking it. And it was just -- it wasn't a 8 free-flowing, smooth -- when I went through, it wasn't. 9 The dead cow, was that in the diffuse area 0. 10 not further upstream, as Bryce was talking about finding a dead bull earlier? 11 12 Α. No, it was in -- it was in that ditch, in 13 that catch ditch or whatever you want to call it. 14 0. That collection ditch? 15 A. Yeah. From there, that diffuse area, could you 16 0. 17 still follow a channel? But what it does -- and the maps --18 Α. Yeah. 19 because they're so small and stuff, and I noticed James 20 had a bigger map. But when you walk in the channel, because the ditch -- because they're carrying the water 21 out of that dug ditch over, and it crosses down to 22 Harry's pivot, basically, through the -- that's where 23 they're capturing it and taking it across. 24 So the channel, all that kind of connects 25

together. But still there is a channel. You can walk the main channel as those ditches form and move in and around each other, you can see if water -- this is where the water is going down through.

So it's not -- I mean it can be confusing because there's a ditch with water running here and a ditch running right here. Which one's a ditch and which one's a stream? But after seeing the photos and stuff -- or the maps and stuff, you can -- my knowledge of the whole thing is way clear now, as in one's a ditch and the other one's a stream.

Q. Okay.

- A. They kind of -- like Jordan mentioned, they flow together there for one little section. But that's the only spot that they flow together. And other than that, it's [unintelligible]. It's a streambed.
- Q. And were you able to continue on further north on that stream channel?
- 19 A. I did.
 - Q. Did you see a clearly demarked stream channel?
- A. It is. And the thing that's kind of -
 I've listened to all the different testimonies, how

 they -- even Larry the other day talked how there's a

 grade between the two. But no one's mentioned that

1	the where those culverts are down below, right
2	that's right like from me to you from leaving
3	Whittakers' property. So it's not way up.
4	Like if you look at the map that's drawn,
5	it's not way up on that map. It's on their property
6	line. It's definitely two streams leaving: One's on
7	the far right side; one's on the far left. And that's
8	where like Cindy even went through there, and I mean
9	she testified that she went through there. One's right
10	when you come to the bottom of the hill, that's Stroud.
11	And you cross through all of this basically mess, and
12	then the one on the other side is Everson or excuse
13	me, Lee Creek.
14	So they're not trying to mingle right
15	there. They're that whole distance. I mean it's not
16	just a few feet. It's it's quite a distance that
17	they're separated when it leaves Whittakers' property.
18	MR. MANWARING: Rob, is there a way we can get
19	Google Maps, Google Earth, somebody? Google
20	MR. HARRIS: Yeah, it will take a second to get
21	it fired up. I can do that. Okay.
22	THE WITNESS: If you looked at Whittakers'
23	property plot map, you can see how close those streams
24	would be apart from one another, just knowing that
25	those head those culverts are literally from here to

1 the wall from their property line. So they can't jump from the length of this 2 3 building in -- from me to you, unless somebody dug a 4 ditch there and tried forcing it across one way or the 5 other, because technically you could probably dig a ditch and transfer all the water from Lee Creek into 6 7 Stroud at that point, or vice versa. But it has never 8 been done, and you can tell. Even James testified he's the one that 9 10 cleaned all the brush out. He didn't dig a ditch 11 through there. All he done was put culverts in to let 12 the existing water go through. And one is on one side 13 and one's on the other, so... 14 MR. MANWARING: Can we get a little closer, Rob, 15 to that culvert area [unintelligible]? 16 David, you were --0. 17 Is that good? Do you want me to --MR. HARRIS: MR. MANWARING: Yeah, that will be fine. 18 19 David, this is the area you were talking Q. 20 about? 21 That's correct. Α. And again, you walked on the Stroud Creek 22 portion of that? 23 24 Α. That's correct. And can you tell from just looking at this 25 Q.

1 aerial about where you were at? 2 Α. Right through here. 3 0. And --4 And this, as far as I'm knowledgeable, Α. that's their property line, so there's Stroud here and 5 They don't convert up here. According 6 Lee Creek here. 7 to that Kauer map, it shows them coming in together here. 8 It's not that. They come together a half mile 9 or whatever, three-quarters of a mile downstream past 10 where the McConnells' point of -- their upper point of diversion, their upper ditch. 11 12 So regardless of Exhibit 154, an engineer 0. 13 map you talked about, are there any other maps? The actual physical location of the confluence of these is 14 15 north of those culverts? 16 Correct. Α. 17 And from that location going further north Q. on Stroud Creek, were you able to walk a defined 18 19 channel? 20 Α. All the way down. 21 If you'll enlarge up a little bit more, Q. Rob, that area. Go so we can see north. 22 23 Now, is there some topography there, David, that you can help us understand how Stroud Creek flows 24 along those hill lines or ridge lines? 25

1	A. Yeah. Like Larry talked yesterday, because
2	he's been down through there, I've been through there.
3	He was down through there 40 years ago. I was down
4	through there last year. Nothing's changed since he's
5	been there. And it's a definite defined Stroud on this
6	side, Lee Creek on this side all the way down through.
7	It basically works back. And then through
8	the whole center of it it's definitely a rise, so they
9	can't just jump back and forth on high-water years,
10	unless somebody put in some sort of a dam or something
11	and forced all the water across.
12	But naturally, it hasn't it hasn't
13	happened apparently in since Larry said it was that
14	way 40 years ago, and it's still that way today.
15	Q. If we can go a little further north, Rob.
16	Can you see anywhere where the upper ditch
17	is for McConnells' ditch?
18	A. Yeah. This would be their upper ditch
19	here.
20	And if you scroll down just a little bit.
21	The other way. Excuse me. Keep going. Keep going a
22	little bit more.
23	It hits their property line.
24	UNIDENTIFIED SPEAKER: Zoom it in a bit, Rob.
25	THE WITNESS: I think it's right in there.

1 Go ahead and raise it back up. The other 2 way. The other way. Excuse me. 3 This is their property line here. 4 And their weir to measure their water is right here. But their headgate and where their water is --5 filed-upon water is coming from about a half mile from 6 7 point A to point B, so... 8 (BY MR. MANWARING): Is that on the upper Q. ditch or lower ditch? 9 10 That's on the upper ditch. Where is the lower ditch? 11 0. The lower ditch is about -- I don't know --12 Α. a quarter mile down, a little less. And it's right 13 here. And it goes up through to their property right 14 15 here, but it's being measured kind of right in here is a measuring device. So it's closer to their headgate. 16 17 Where's the confluence of Lee Creek and Q. Stroud Creek in relation to those two ditches? 18 19 Right here is -- well, upstream --Α. 20 Go ahead and scroll back. If you get --21 Keep going. 22 Right -- it dumps in probably -- Lee Creek actually comes right along this edge here and goes back 23 in, and it -- it's -- when I was there last, and that's 24 in the photos, there was a dam blocking all the water, 25

besides what was leaking through the dam, but all the water for Lee Creek, except for what was leaking through the dam was going on that upper ditch. And that's -- in the pictures it shows it running.

And then once it hit through onto the property, there's a dam there, and it -- in one of the pictures it shows it was watering that whole field. It was a full spray -- or a -- basically watering that whole first field. But the -- they come together about right here, because this one continues down and meets where this one comes together.

- Q. You could actually walk to that point?
- A. Yes.

- Q. And you have walked to that point?
- A. I have.

And the -- there's witness, and in fact Cindy's even walked to that point kind of, I'm guessing just from here through the trees to get to it. But I walked down through it. And you're going to get the hide taken off from you.

But I had to do it because I felt it was in my best interest to find out where's the water going, why am I not getting my water. And it gets worse and worse. And once you get water for three days, it's like you're going to have to do something. And

1 that's -- I was just going to see where it was going. 2 Q. Did you come across any other measuring 3 devices between the culvert area and this confluence --4 No. Α. -- on Stroud Creek? 5 0. 6 Α. I did not. 7 Were there any measuring devices upstream 0. 8 from the culverts to the springs area? 9 Α. Yes, there's -- it's right -- there's Yes. 10 like a bubbler, I guess they call it or whatever. 11 There's measure -- or basically a measuring device 12 That's the only other one that I observed. there. there's a headgate and stuff there that controls the 13 14 flow of going into that bubbler. And that's at that 15 ridge point or whatever they call it where the water 16 can go over to Harry's pivot. 17 Okay. And the day that you walked that Q. last year, did you try to determine from the measuring 18 19 weir on the upstream portion of Whittakers, before it 20 goes downstream to the springs, and the measuring device on the other side of the springs, did you take 21 any time to measure and get those two? 22 23 I couldn't tell, just for the fact that --Α. well, the main thing, I didn't know the amount of 24

25

water.

I was just going to document how much water is

1 there, and then go back and call James' office and find out, "Does this sound right to you?" Or call the 2 3 watermaster. 4 But when I talked to the watermaster, it 5 was -- that's the amount of water they should be So that's all -- that was my plan was just to 6 getting. 7 see how much water was flowing through. Okay. Now, there was some testimony Q. 9 yesterday, David, about the measuring device in the 10 McConnells' upper ditch, and there was some representation that it was a little further from their 11 12 property line. 13 From what you are testifying today, that 14 measuring device is right up on their property line? 15 Their -- on their upper ditch, the Α. 16 measuring device for that water is probably from here 17 to the wall on BLM right before you get onto their 18 property. 19 Okay. Q. 20 So I didn't go onto their property, because 21 I could see the measuring device. But the proximity of that measuring device 22 0. to McConnells' property is roughly what you're 23 estimating the width of this or length of this room? 24

25

Α.

Yeah, it's almost -- it's almost on their

1 property, the line, but it's on BLM. 2 Q. Okay. And that's approximately a quarter mile from the diversion point? 3 4 Yeah, a quarter to half. Α. I don't know 5 exactly. 6 Now, you're going to have to see again. We 7 can turn the lights back on before anybody falls 8 asleep. 9 So going back to Exhibit 304, now that 10 we've gone through all of the physical channels, Stroud 11 Creek down to its confluence with Lee Creek, I want to 12 go back now to 304 and have you explain where that is 13 and what we're seeing. 304 is the upper ditch of McConnells 14 Okay. 15 where their true water right is set. And that was taken -- it's -- it was taken on the 9th of November. 16 17 Me and my wife went up, because we was trying to make sure we had something -- I know they asked us to send 18

And I was just confirming that -- pictures of the McConnells' headgates and weirs would be submitted so if it came up that, yeah, there's something that Water Resources can refer to. And so we went up. That's why the picture was taken.

pictures of our headgates and weirs and all that.

19

20

21

22

23

24

25

Q. And what can you see in Exhibit 304? What

1 is it depicting?

- A. 304 is -- it is Lee Creek. And it's where it meets their ditch. And there's a -- I'm pointing at the dam that's been put in place to block all the water to force it into their ditch. And if -- if you were -- if I walk and stand over where the dam is, which I am in another picture, but there's hardly any seepage coming out underneath the dam.
 - Q. Not an earthen dam?
- A. Yeah, it's just basically like a tarp or something sitting there, a canvas dam with dirt piled on it to make sure that -- they're trying to control all the water.
 - O. Okay. What's Exhibit 305?
- A. Exhibit 305 is -- it is -- it shows the water that's been irrigated -- or basically put out over the lands right on McConnells' property. So I'm standing at their weir, and there's a dam just across the fence there straight, it would be to the left of that photo, blocking the water. And that water was flowing out into that field.
- And if you kind of -- you kind of look down far to the right, that would be where their lower ditch comes into their property.
- Q. Okay. So this is still on the upper

1 diversion part? 2 Α. This is on their upper -- on McConnells' upper diversion. 3 4 Can you see a contrast of any kind between that upper ditch on McConnells and their lower ditch? 5 A contrast as in? 6 7 0. Like a difference in the -- how deep it is, 8 how maintained it is. It's -- basically it's downhill all the way 9 Α. 10 from that ditch to their lower ditch. So there's not like a rise or something where -- that water, you can 11 12 see it's flowing down and basically collecting in their 13 lower ditch. 14 0. Okay. 15 Α. So there's no -- nothing blocking it. 16 That upper ditch at McConnells that goes up 0. 17 across BLM land to their land, is that a well-defined 18 ditch? 19 It is. Α. Has it been maintained? 20 0. I mean it's 100-something-year-old 21 Α.

Q. Has it been maintained?

A. No. I mean it's 100-something-year-old ditch that's probably -- I don't know if it's ever been -- my ditches are 100 years old, and they're the original. And I -- they flow the water okay for the amount of water that I get. So it's not like -- but

22

23

24

- that ditch, in my opinion, hasn't really been
 maintained.
 - Q. Compare that with the lower ditch that transports water, has that been kind of a clearer channel, a deeper channel?
 - A. Oh, yeah. The lower ditch is -- it's -- it can handle more water, I think, just because it's not as old a ditch as the upper ditch. So it hasn't -- sediment and everything hasn't filled it in like the upper ditch has.
 - O. What's Exhibit 306?

- A. 306 is actually their -- their weir on their upper ditch. And you can see the fence in the background is their property line. And if you look past that, I think you can see the canvas dam and the ditch forcing the water that shows you from the other picture.
 - O. Okay. And Exhibit 307?
- A. 307 is McConnells' weir on their lower

 ditch. And like I said, you can tell that that's been

 dug and maintained a lot more recent than the upper

 ditch. That's a newer ditch.
 - Q. And Exhibit 308?
- A. 308 is -- 308's the one where I was standing right there where the -- this is at their

upper -- upper ditch. I'm standing in the streambed or
where the streambed should be, that's where the
headgate should be installed that was sitting off to
the side. And that's that dirt that's blocking it.
And you can see water weeping through underneath it.
So -- but all the water -- 95 percent of the water was

going down the upper ditch at that point.

- Q. At that point. Okay. Exhibit 309?
- A. 309 is their lower ditch headgate. There's also another headgate on the right side, which would be the Johnsons' or the streambed at that point of Lee Creek and their -- the one on the right, which would be would go to Johnsons, was closed.

So all the water at that point was basically -- this was -- would be Stroud's water. All of that water was being forced on their lower ditch at that point, besides whatever was weeping through that one as well, in the normal streambed.

- Q. Okay. And Exhibit 310?
- A. 30 -- 310 is a close-up picture of -- it would be Johnsons' or the main streambed, showing that it's blocked with tarps and stuff like that diverting the water into that lower ditch.
- And I'm guessing that's Johnsons' headgate, but that might be a way that they've been trying to

- transfer the water into their headgate and force it. But it's -- if it's their headgate to where it moves the water down the stream, and then it's -- it's in conjunction with their other headgate, but they're right next to each other. And it's shutting off the mainstream. That's what I was taking that photo to show. It's showing it's shutting off the stream.
 - Q. And Exhibit 311?

- A. 311's just the -- it's the left side -- close-up of the left side of that 309 photo, showing all the water that's not being blocked, that it's just running straight down that lower ditch.
 - Q. And finally, 312?
- A. 312 is just showing you the main water flow down their upper ditch. This is where the headgate from that other photo is sitting just off to the left side. It should be setting just down a little bit, because the streambed, where I was standing on the streambed in Exhibit 308, I was standing on the streambed right there in that same photo. So it's kind of a backing up photo of 308 showing you the flow of the water rolling down through there.
- Q. Okay. Could you provide some information on what your water use has been since the Kauer Ditch was blocked or closed in 2014?

1 Well, the -- my water use has -- because Α. I've been irrigating -- my parents had me irrigating --2 3 or my -- because it was both my parents' property when 4 I was growing up. They had me moving water up there. 5 Long enough ago, I was probably 12 years old, 13 at the latest, because I had a Hodaka 100 motorcycle, and they 6 7 don't make them anymore. And they -- and that was like 8 the thing back in the day. 9 So I've been moving water driving -- I had 10 to drive out there twice a day to move water. So I put a lot of miles on it going back and forth. 11 So I've 12 been moving the water, and I understand how long you 13 normally would get. I would have a job for about a 14 month out of the summer moving water. That was just... 15 And now, since the -- they moved the water, 16 it just varies on the amount. Like this year, anybody 17 that's going to get water up there, they're going to -there's not going to be any water even if this whole 18 19 thing happens in whatever way, there's no -- at this 20 point there's no snowpack to -- there's not going to be 21 any water this year, comparatively speaking. 22 But normally a bad year you're still going to get a couple weeks of water. Good year, you can get 23 24 a month of water.

Last year?

Q.

A. Three days. Three days of water, roughly, last year. And last year is when we took all these pictures, and there was water running everywhere down through there. That's the reason I even -- like what is going on.

And I think it was brought up that Merritt moved water, which he thought he was doing it the right way, but still that impacted our water, because if it was -- had been moved correctly down through there, then it would have gotten there earlier and we would have had water longer.

But he did it unknowingly. And he didn't intentionally do it, but -- so he knows how to move the water properly now to get it there. But that was the reason our water was shut off so early last year.

- Q. Now, have -- have you ever had a watermaster or anyone, McConnells or anyone make a demand on you for their water at the lower diversion?
- A. No, never. It -- like Shanna had testified, we just get our water shut off. And I haven't even gotten texts in the past. I -- I mean or calls or anything. Usually if Shanna would get a call, she might call me. But no notice to me.
- Q. Now, you -- you're protesting this transfer because you believe it will adversely affect your

ability to get the water through your Everson Creek diversion?

A. That's -- that's correct.

- Q. What do you think will happen if this transfer is allowed?
- A. Well, I think that the amount of water that historically -- and everybody's talked about the 20-year, 50-year, 100-year, whenever they applied for their water in 1882, that the time era might have been a really good era of water in Lee Creek. Porcupine might have supplied that water greatly for that upper ditch. And that's where it was filed and where it all happened.

And in my opinion, at a later date someone went in and put the lower ditch in. And because like they talked about the Green Book and all this, things get initialed and all that, that might not get filed through Water Resources.

But somebody over the years started getting the water down below, and they probably said, "Well, we're getting enough water on our upper ditch, we're just going to run it in the channel and pick up -- pick it up downstream."

There's not enough water in there now to supply, like they said. But historically I think that

there was enough water back in the day to give their

15.2 cfs in that upper ditch all day long. But if -if they let them pull water out of Stroud, they're
changing the -- they're pulling it out of our -- my
water and Shanna's water and Rosalie's and Whittakers'
water, because they're -- that's not the streambed.
They're not entitled to that water. It's downstream
from the confluence of where Everson and Stroud meet -or Stroud. I'll just refer to it as Stroud.

- Q. You think that would negatively affect your ability to water at all on your property?
- A. Yeah. It will drop the time, just for the fact that they might pull the whole thing dry, and to make up for the amount of Porcupine and actual Lee Creek. And if they're making up water off our water, they might take all of our water to make up for it.

Because like I said before, the amount of snow that comes in Everson versus Stroud, because I'm there -- I've been up there -- I've been riding snow machines in there for years and years, and some -- there's not as much snow in Stroud as there is in Everson.

And the same with Porcupine. And as you go over to Moon Springs and all the way across, all those areas, they get usually a consistent amount of water.

1	It doesn't change every year.
2	Well, one year they got a whole bunch of
3	snow at Stroud. The next year they got it at Everson.
4	It's always the same consistency of amounts of snow.
5	So the amount of water that they would be making up
6	from Everson Creek, which is Stroud, would be taking
7	our water, in a sense.
8	Q. And to your knowledge, nobody's ever had an
9	actual right to take that water from the point that
10	they're asking to take it now, the McConnells are
11	asking to take it now?
12	A. That's correct.
13	MR. MANWARING: I don't have any other
14	questions.
15	THE HEARING OFFICER: Okay.
16	Do you want to break, Mr. Bromley, or are
17	you ready to jump right in?
18	MR. BROMLEY: No, let's go.
19	THE HEARING OFFICER: Okay. Go ahead.
20	
21	CROSS-EXAMINATION
22	BY MR. BROMLEY:
23	Q. Hi, Mr. Tomchak. Chris Bromley, on behalf
24	of the McConnells.
25	So a number of these wintertime photos that

1 you were going through with Mr. Manwaring, what were --2 what was the day in November that they were taken? 3 It's right on the photos. 11th -- 11th Α. 4 month, 9th day. 5 0. Do you know what season of use on a water 6 right is? 7 Say it again. Α. 8 Do you know what a season of use on a water Q. 9 right is? 10 It would be your months of the year that Α. 11 you get the water. 12 Yep. Do you know when your water 0. Right. 13 rights end on the calendar? 14 Α. My individual water rights? 15 Uh-huh. 0. 16 No, I don't know. Α. 17 Okay. Do you know when the McConnells' Q. water rights end on the calendar? 18 19 No, I do not. Α. 20 0. Okay. So if I showed you Exhibit 1, which is Scott King's expert report -- I'm just going to 21 22 bring it up to you because if you don't have it in 23 front of you -- and if you just look at this table 24 And there's a season of use for McConnells. here. And 25 I'll show you yours too.

1	A. Okay.
2	Q. So on the McConnell rights the season of
3	use for their irrigation rights, it starts on which
4	month and which day?
5	A. It would be the 3rd month, 15th day.
6	Q. Okay. And it would end when?
7	A. 11th month, 16th day.
8	Q. Or 15?
9	A. Or 15th.
10	Q. Yeah.
11	A. 15th day.
12	Q. And then just look at yours real quick. I
13	just want you to be able to compare. There are yours.
14	So your irrigation rights that's your
15	domestic. So let's look at your irrigation. Yeah.
16	A. 3/15 to 11/15 also.
17	Q. Okay. So all I'm wondering is, so an
18	irrigation water right is allowed to turn off on
19	November 15th.
20	So then, you know, is it surprising to you,
21	then, that the McConnells' ditches had water in them if
22	their irrigation rights were allowed to still be on?
23	A. The reason that I even mentioned that was
24	the letter that was sent back in August from Cindy
25	shutting our water off. And then they he testified

1 that he shut his water off, as in Bruce testified that they shut it off so it was no longer there. And when I 2 3 went up there -- and it shouldn't have been turned on 4 because they -- until this whole issue was taken care 5 of, he shouldn't have had any water. So that's the reason I said I was surprised 6 7 to see water in there because they didn't have any 8 water rights right then. Does that make sense? 9 10 So -- yeah. No, it makes sense. Q. My only question, then, was so the 11 12 irrigation water rights can still be turned on, based 13 on the language in the rights that we just looked at; 14 correct? 15 A. Yeah. 16 Q. Yeah, that's all I was getting at. 17 Okay. So, Mr. Tomchak, at the very beginning, how many -- you were talking about the 18 19 65 acres that you irrigate. 20 How many acres do you own? 21 Α. 170. And do you know of those 170 how many acres 22 0. you actually irrigate in any given year? 23 24 It's hard to tell, because Shanna said the Α. exact same thing. When my water doesn't get there, 25

1 like last year, you're only going to get your three 2 days. And however much water you're going to get is 3 what you're going to get. 4 But so how many acres do you put Q. Sure. 5 water on? Of where my ditches and stuff are? 6 Α. 7 Yeah. Of all of the acres that you own, 0. 8 how many acres get watered? 9 Probably about the 60 acres, 70 acres, Α. 10 right in there where -- that can get water. Whether it 11 gets it or not, it just depends. 12 I -- last year I couldn't even get it across my lands once. I mean it was -- if I moved the 13 water twice a day, I could have gotten maybe an eighth 14 15 It wasn't even beginning -- it was hardly any away. 16 water. 17 So in a normal, kind of an average Q. Okay. year, you think you irrigate more than 65 acres or less 18 19 than 65? 20 Α. On a normal year? 21 Q. Uh-huh. 22 Probably right at covering my lands, yes. Α. 23 Okay. So more than 65 acres or fewer than Q. 65 acres? 24 25 Right at 65 acres. Α.

1 I'm just curious when you're saying Q. Okay. 2 your lands, you own more than that, but --3 Oh, right. No, I meant my lands as in my Α. 4 ditch system that's been designed and put on that 5 property for over a hundred years. 6 Q. Yeah. 7 When I send water down the ditches, that's Α. 8 what I mean. And I -- that's where the water rights 9 were for. 10 So the property was bought, Q. Okay. 11 according to your dad, in 1977. 12 And I think you said the same thing? 13 Α. That's correct. 14 0. Okay. So and then you came into ownership 15 of it in 1991? 16 Correct. Α. 17 So then your knowledge of the property is Q. from that 1977, late 1970s time frame? 18 19 Correct. Α. 20 0. Okay. You hadn't been up there before? Before the '70s? 21 Α. 22 Q. Correct. 23 Α. No. All right. Were you here yesterday for 24 0. James Whittaker's testimony when he was talking about 25

1 when he put the culverts in in the late 1960s/early '70s, culvert and a bridge? 2 3 I was here, yes. Α. Yeah. 4 And then your testimony was that Q. Yeah. those culverts or the bridge or the combination, that 5 they're down there near the end of the Whittakers' 6 7 private property; is that right? They're at the very bottom of his property. Α. 9 Yeah. 0. 10 And there is two culverts. Α. 11 Q. Uh-huh. Okay. 12 Because you brought that up. Α. No. 13 Q. Yeah. Thank you. 14 Α. Everybody's been saying it's two culverts, 15 so it's not confusing. Okay. Well, thank you for clarifying that. 16 0. 17 I appreciate that. So let's look at Exhibit 151. 18 19 turn to Figure 2. Maybe go in 20 pages or so. I think 20 that's it right there. Go back one. Figure 2. 21 Α. Yeah. Do you see the -- those would be the 22 northernmost east to west dots, the white diamonds in 23 24 section 30? 25 Yes. Α.

1	Q. Is that approximately where these two
2	culverts are located?
3	A. That's correct.
4	Q. Okay. And so that legal description is
5	section 30?
6	A. It's I don't know the exact legal on
7	reading the legal descriptions, but
8	Q. Township 16
9	A. I could tell you it's right there where
10	those little dots are.
11	Q. Okay. And on that map you see that as
12	section 30?
13	A. Yeah.
14	Q. Okay. So let's look at Exhibit 154. And
15	keep your finger on Figure 2.
16	Are you there?
17	A. Yes.
18	Q. Okay. And do you see where section 30 is
19	on that map? It's this colorful engineer's map.
20	A. Uh-huh, yes.
21	Q. And then as I understand that map, the
22	coloring is the coloring of private property lines.
23	So those culverts, then, would have been
24	put, as you said, down there toward the end of or at
25	the end of the Whittaker private property: is that

1	correct?
2	A. Further up.
3	Q. Okay. And so where where that you
4	see the color marks there in section 30 on Exhibit 154,
5	does that line up pretty well with Figure 2 that we
6	were just looking at where the white diamonds are?
7	A. So the the dots themselves?
8	Q. Uh-huh.
9	A. The dots themselves would be right there at
10	the very above where that map shows the two streams
11	come together.
12	Q. Yeah.
13	A. It's downstream of them.
14	Q. Okay. So we're looking in the same general
15	area, then. I'm not looking for pinpoint accuracy.
16	Just
17	A. No, on the boots on the ground, there's two
18	streams running out of their property.
19	Q. I understand your testimony about what
20	you've seen today.
21	A. Okay.
22	Q. I'm just looking at the maps just trying to
23	line some things up.
24	A. Okay.
25	Q. And then, yeah, your testimony is you know,

- 1 having lived there since 1977 until present, what you 2 And you've -- and you've walked down from the top to the bottom. 3 4 But you weren't there prior to 1977; 5 correct? That's correct. 6 Α. 7 And so you can't give an opinion on what 0. 8 boots on the ground would have shown prior to that time? 9 10 I didn't live there, so -- I'm just giving Α. 11 my opinion based upon if something was disturbed or 12 whatever, as in somebody had been digging something within the last few years, I mean even where James went 13 14 in and put the two culverts in years ago, I can't 15 remember the exact date that he testified he'd done 16 that, but you can tell that that's been disturbed. 17 there wasn't nothing that's been disturbed. So you could tell where James disturbed that, but you can't 18 19 tell anything else that's been disturbed. 20 So it's been a hundred years or -- a long
 - time. But I wasn't here. I wasn't alive. But that hasn't been messed with down through that channel, besides --

21

22

23

Q. Okay. Yeah. All I'm -- all I'm getting at is the -- those culverts are lining up, as you said in

your testimony, basically with the Whittakers' private property, and then looking at the Figure 2 in relation so Exhibit 154.

Is it a tangled mess once you get to the Cal Whittaker place where the water's -- that the headgate is on Stroud Creek? You were able to then follow it down?

A. Uh-huh.

- Q. Pretty tangled in there? You said you were in chest waders.
 - A. Uh-huh. And there's a lot of bending over and moving trees and breaking branches to get down through there. If somebody follows you right down through it, they're going to be breaking branches and everything else to stay in because it's -- to stay in streambed. I mean you could walk out of the streambed and bypass it and get through fairly quick. But I wanted to follow the streambed to see where the water was going.
- Q. Okay. And you were able to find a -- you could find a channel through there? I mean it took some effort, but you were able to find something?
- A. Yes.
- Q. Okay. Question about the Kauer Ditch, a couple questions about the Kauer Ditch.

1	So this Water District 74Z meeting that
2	we've talked about a little bit, did I understand you
3	to say that you brought up the Kauer Ditch was not
4	lawful?
5	A. I brought up what I brought up was, "Why
6	are they running water on that ditch?" And then it was
7	brought up in the meeting that it wasn't an original
8	ditch. Because I didn't know if it was or it wasn't
9	until it was brought up in that meeting.
10	And as soon as they it was said that it
11	wasn't a legal ditch, and then I'm like, "It needs shut
12	off, in my opinion, and also" so that's kind of what
13	I was looking for, because I didn't go out and research
14	and find out all that. It was just brought up in the
15	meeting.
16	Q. Okay. And so as far as did you know
17	that the McConnells had two diversions that were down
18	on Lee Creek prior to that?
19	A. No.
20	Well, prior to that meeting?
21	Q. Correct.
22	A. No.
23	Q. No. So by closing Kauer Ditch it's your
24	opinion that your water rights have been injured?
25	A. By closing the ditch by opening that

1 ditch and allowing water that doesn't belong to them, 2 that injures my water. 3 By "ditch," I mean Kauer Ditch, not the --0. 4 not the lower ditch. It's the same water. 5 Α. 6 Q. Okay. 7 You're -- you're trying to say they're --Α. are they measuring the water downstream and saying they 8 9 get this much water so we're going to go ahead and give 10 it upstream? That's not at all what I was asking. 11 0. 12 I was asking you if -- if by closing Kauer 13 Ditch, do you feel your water rights have been injured? 14 Α. No. I -- I think my water right for the 15 last -- since they've shut this off, the reason it's 16 been injured is the flow going through the spring isn't 17 being allowed to go through the spring and basically 18 follow the streambed, follow Stroud's streambed to the 19 lower end, which is Stroud where it comes out below 20 McConnells' upper diversion. 21 Okay. But you understand that once it gets to the Cal Whittaker place it's going into a ditch 22 system, correct, the water? 23 24 Α. It's going into what system?

Into a ditch system through the Whittaker

25

Q.

1	place.
2	A. Yeah. It's in one spot it is.
3	Q. Yeah.
4	UNIDENTIFIED SPEAKER: Could I interrupt for
5	just a second, James?
6	UNIDENTIFIED SPEAKER: No, you can't.
7	THE HEARING OFFICER: No. Sorry.
8	MR. BROMLEY: I don't have any further
9	questions.
10	THE HEARING OFFICER: Okay.
11	Mr. Harris, did you have any questions for
12	this witness?
13	MR. HARRIS: Yeah.
14	
15	CROSS-EXAMINATION
16	BY MR. HARRIS:
17	Q. Mr. Tomchak, just to follow up on that last
18	question. I got to make sure I understand.
19	If there's water flowing down in that
20	spring area, your diversion is upstream of that?
21	A. That's correct.
22	Q. So how is water flowing through there, how
23	does that injure your water right up above?
24	A. I'm not allowed to get my water, my
25	filed-upon water, until the older water rights are

they've been met, the senior water rights.

And if it's -- the stream's being blocked by a headgate that's not allowing the water to flow down the stream, then that water that's -- it rains 2 inches of rain tonight, that water doesn't go down the stream. It goes over the weir into the ditches. So I don't get any access to any of that water, so it didn't make it down to get measured so I get my high water.

So I'm missing on high water because the diversion end stream is not allowing the water to go down the stream.

- Q. So it -- if it did connect down to Lee

 Creek, you're saying, then, that would allow your water

 right to be turned back on further up on Everson Creek?
- A. If it was measured -- see, prior to this whole case of the McConnells applying for a -- to transfer their water rights downstream to their lower ditch, unknowingly to it and everybody that's testified, I've listened to, no one knew that that bottom ditch could even be used. So even including watermasters.

So they've been making up our water for years taking our water to make up the 15.2 cfs. If they didn't take our water to make up their water, we'd

1 be getting our water as soon as it's measured at Rosalie's. We would know, because it should only be 2 3 Rosalie's water, which is measured right at my 4 property, right just where the Stroud comes into 5 Everson, and it would be measured again down below where James and -- or Jordan gets his water right by 6 7 Rosalie's. You could tell me within a few hours, you 9 could just go down there and see, both of them, they 10 have their water, my water and Shanna's water should be 11 turned on. 12 So you're -- your position is that 0. I see. Stroud Creek water is Stroud Creek water and none of 13 that water should be allowed to be turned into Lee 14 15 Creek? 16 That's correct. Α. 17 The users on that channel, if the Q. Whittakers are getting their water, then -- and there's 18 19 extra, that you should be able to turn on more up 20 above? To -- up to my amount that I'm allotted. 21 Α. Up to your -- up to your water right? 22 0. 23 Correct. Α. 24 0. And so your position is that McConnell shouldn't be able to call for any water out of Stroud 25

1 Creek, even though physically it flows into Lee Creek? Below his upper diversion. 2 Α. Below his upper diversion. 3 0. 4 And is that why you protested this transfer? 5 That's true. That's correct. 6 Α. 7 Are there any conditions, in your mind, 0. 8 that could be included to protect you from injury if 9 this transfer were approved? 10 Conditions as in? Α. Well, is it just your position that the Lee 11 12 Creek users can't call for any water out of Stroud 13 Creek? Is that your position? They can down below his upper headgate if 14 Α. 15 it's -- say the Johnsons have water rights and they want to call it, then they can call the excess water 16 17 that's going down. 18 0. I see. 19 That's not my water --Α. 20 Q. Okay? 21 -- at that point. Α. I want to have you turn to your 22 0. Okay. exhibits, your pictures. It would be 308. 23 24 Α. Okay. I think I missed this. 25 Q.

1	Where are you standing in this picture?
2	A. I'm standing right where the upper this
3	is in the where their upper diversion is or their
4	upper ditch is, right where the headgate should have
5	been installed just above where the headgate should
6	have been installed. The headgate is actually in one
7	of photos sitting off with the my wife took the
8	picture. And if she would turn to the left, the
9	headgate is sitting right there in the dirt out of the
10	stream.
11	Q. So we've talked about kind of this
12	elevation change between Lee Creek and Stroud Creek.
13	Are you standing on that in between the
14	creeks?
15	A. I'm standing between, yes.
16	Q. So
17	A. Well, I'm standing right in the streambed
18	itself, or kind of on where they they piled put a
19	dam in and dirt and stuff to block all the water to go
20	from Lee Creek down their upper ditch.
21	Q. So the water that's in the bottom of that
22	photo, that's Lee Creek water, or is that in a ditch?
23	A. That's Lee Creek water.
24	Q. That's Lee Creek.
25	So Stroud Creek would be behind you in the

1	photo?
2	A. Correct.
3	Q. Okay. Lastly, just kind of an important
4	question: Is there fish in Stroud Creek in Stroud
5	Lake and or the other lakes up there?
6	A. Yes, there is.
7	Q. Okay.
8	A. And they're actually in streams too.
9	MR. HARRIS: No further questions.
10	THE HEARING OFFICER: Mr. Johnson?
11	MR. JOHNSON: Yes.
12	THE HEARING OFFICER: Any questions?
13	MR. JOHNSON: Yes.
14	THE HEARING OFFICER: Go ahead.
15	
16	CROSS-EXAMINATION
17	BY MR. JOHNSON:
18	Q. Picture 307, the weir there, can you
19	describe that where that weir's at again?
20	A. That weir is just downstream from picture
21	309, the left side headgate. There's two headgates
22	sitting there.
23	UNIDENTIFIED SPEAKER: [Unintelligible.]
24	Q. (BY MR. JOHNSON): [Unintelligible] from
25	309 headgate?

1 Well, Exhibit 309, there's two Α. Yeah. One of them on the left and one on the 2 headgates. 3 The one on the left is just upstream from this 4 weir. 5 Q. Thank you. Was I confused? 6 Α. 7 A little bit, yeah. 0. 8 Earlier --Α. 9 Yeah. 0. 10 UNIDENTIFIED SPEAKER: [Unintelligible.] You can see the land. 11 THE WITNESS: I --12 (BY MR. JOHNSON): And then you said there 0. 13 was a dam, that probably my ditch, on that picture? And that's what I was stating, that the one 14 Α. 15 on the right, the headgate on the right, that's where I don't know if that's your ditch or if 16 the dam is. 17 that's just the stream being blocked by a headgate. [Unintelligible.] 18 0. 19 On 309 because there's two headgates right Α. 20 there. [Unintelligible] that's 21 MR. JOHNSON: [unintelligible]. Okay. [Unintelligible] no more 22 23 questions. 24 THE HEARING OFFICER: Ms. Foster? 25 MS. FOSTER: I'm good.

1	THE HEARING OFFICER: Okay.
2	
3	EXAMINATION
4	BY THE HEARING OFFICER:
5	Q. Let's start let's start with
6	Exhibit 153. And it's going to be Figure 11.
7	A. Okay.
8	Q. I want to know, Mr. Tomchak, kind of as you
9	walk through that property, I want you to to talk me
10	through the path you took from the the Whittaker
11	point of diversion with the red dot
12	A. Okay.
13	Q in the in the yard up through to the
14	north part of this map. So talk me through. Where did
15	you go?
16	A. The there's like a red line there.
17	Q. Yeah. A solid red?
18	A. Solid red line
19	Q. Uh-huh.
20	A that goes over that goes over and
21	basically drops the channel into the that's
22	basically the channel that's there now.
23	Q. Okay. To the end of that first solid red
24	line you
25	A. Right.

-- reach the willows or the brush, the 1 0. 2 trees there? 3 Right. And that's where that other picture Α. 4 was --5 Q. Yep. -- showing that it's all --6 Α. 7 Uh-huh. 0. 8 -- there. So then I went down through Α. 9 that, and it basically, pretty close to where that line 10 actually is, follows straight down. That line pretty much depicts --11 12 Q. The dashed line? 13 Α. The dashed line. 14 0. That's the path you took, you continued in 15 that northeasterly direction? 16 Α. That's true. Correct. 17 Until you hit the next solid red line? Q. Well, I got to that solid red line, 18 Α. Yeah. 19 which is lower catch -- ditch. 20 0. Uh-huh. And then I walked up it, because I didn't 21 22 know what it was. Where was that water coming from? 23 So I walked up it to where it went to nothing. It was 24 just where it started from. Then I turned around and walked back and 25

1 continued down the stream, which would be to the 2 northeast. And then --3 So you followed the solid red line? 4 Α. The solid red line. That red line is 5 pretty close to depicting the channel. 6 Q. Now, you --7 Α. It's between. You're using -- I'm sorry. Get going. 8 Q. 9 It's where that lower -- that big S ditch Α. 10 or whatever is --11 0. Uh-huh. 12 -- the channel is just -- that's flowing Α. 13 right now is where that red line is. And you can see probably historically, 150 years ago it's a little bit 14 15 to the west. So, Mr. Tomchak, you followed the solid red 16 0. 17 line up to the other yellow X squares? 18 Α. Correct. 19 So in other maps that's identified as a Q. 20 ditch, but you're using terms "stream channel" and "stream" for that? 21 Because that's where all the water is 22 23 flowing. 24 So when you say you followed the stream, 0. you followed the water? 25

Followed where all the -- where all the 1 Α. 2 water is flowing. You followed the path of the water? 3 0. 4 Α. And it's -- it's like a -- excuse me. Ιt was a defined -- like trees. It's been there awhile. 5 You didn't follow out along the S 6 Uh-huh. curve, west springs ditch to see if there's some other 7 8 stream channel headed to the north that may be a dry stream channel? 9 10 On the -- on that S that's on there? Α. 11 Q. Yeah. 12 Where that red line goes? Α. 13 Q. Yep. I went to the very end of that ditch where 14 Α. 15 it starts, and then I turned around and went back. 16 But stayed in the water? 0. Well, you can't -- I had to walk next to 17 Α. the water, because it -- I had waders on --18 19 It's deep? Q. -- chest waders, and it's like probably 20 2 foot of silt in the bottom of it. And you start 21 walking even in it, I mean you can't -- it would drown 22 23 you. You'd be stuck? 24 Q. You got to walk next to it, and you're 25 Α.

1 still walking through.

2

3

4

5

6

7

8

9

14

17

18

20

21

22

23

24

25

- Q. Did you go up and over the berm and investigate any of the -- any of that dark green brush area on the north side, just --
- A. Yeah, I did. I actually walked all the way up to where the Kauer Ditch is that's not on -- that's not even on here. I walked all the way up and came back.
 - Q. You came back through here?
- 10 A. So I walked --
- Q. No. I'm asking, did you go up and over the berm and investigate this area to the north of the west springs ditch?
 - A. No. I walked all the way up here.
- Q. Okay. You stayed pretty much right on the west springs ditch.
 - So you can't say whether there's a stream channel north of the west springs ditch?
- 19 A. No, because I didn't walk that.
 - Q. You didn't walk that. You followed the water -- you followed the water up to these two Xs, the yellow Xs, and continued to follow the water up -- up to the northwest, or maybe almost directly north up that solid red line? Because we've heard testimony earlier that that's -- when water is returned toward

1 Lee Creek, that's the path that it goes. Okay. Would you turn to Exhibit 1. 2 we're going to look at these three -- three stream 3 4 crossings, two culverts, one that's not a culvert? 5 MR. HARRIS: Did you say 1 or 151? THE HEARING OFFICER: Exhibit 151, Figure 3. 6 I I'm speaking out of --7 apologize. 8 And so it's -- it's closer to the Q. 9 beginning, if you have it. In the beginning of this 10 report there's a lot of other stuff going on here. There it is. 11 12 So this is that road crossing. We've looked at it a lot with a bunch of different witnesses. 13 14 As you followed the water --15 Α. Uh-huh. And you can turn this sideways. 16 0. As you 17 followed the water to the north, you followed the water in what has been marked as the D1 channel, the farthest 18 19 channel to the east? 20 Α. That's correct. That's -- that's what -- where the Stroud 21 Q. Creek water was flowing at the time. 22 23 D3 is the Lee Creek water; is that correct? 24 Α. That's correct. Did you walk over to observe that when you 25 Q.

1	walked the water?
2	A. I did.
3	Q. Okay. Where are the where are the
4	culverts? D3 has a culvert?
5	A. And D D1 and D3.
6	Q. D1 and D3 have culverts.
7	D2 does not?
8	A. Just a gate.
9	Q. What do you mean "a gate"?
10	A. It's like a gate or something in there
11	controlling not a water gate. Like a cow gate to
12	keep cows out.
13	Q. Okay. Is there
14	A. Or fences. I guess I should say there's
15	some fences and stuff.
16	Q. Was there water in D2 when you walked
17	through the road there or through
18	A. Well, it wasn't flowing water. It was like
19	marshy.
20	Q. Okay. Marshy in that area.
21	Where is the water from that D2 crossing in
22	that? Do you know?
23	A. Where does it end up?
24	Q. Yeah. Where does it where does it
25	A. There wasn't any water that I didn't

1	follow any.
2	Q. You didn't follow the water from D2
3	north
4	A. I didn't [unintelligible]
5	Q to see if it connected to Lee Creek or
6	if it connected over to the Stroud Creek flow?
7	A. Oh, you're saying the channel that's
8	that's basically flowing through there?
9	Q. Yeah.
10	A. [Unintelligible.]
11	Q. Where does the D2 channel go?
12	A. It would flow into D1.
13	Q. It would flow over into D1, rather than
14	into D3?
15	A. Correct.
16	Q. Even though that is
17	A. [Unintelligible.]
18	Q. Is this ridge, is this bear spot of
19	sagebrush, is that a ridge?
20	A. It's sagebrush.
21	Q. Sagebrush. But it's not a high point
22	between D1 and D2?
23	A. They're they're fairly level. It's not
24	like a a canyon or something. It's fairly level
25	through there.

1 Uh-huh? 0. The higher area is between D2 and D3. 2 Α. The -- when you're looking down -- walking down through 3 4 there, you can definitely tell it's a -- natural earth is higher between those two. 5 Between D2 and D3? 6 Q. 7 Α. Correct. 8 Q. Okay. 9 So I would say if water got into D2, it's Α. 10 going to flow into D1. 11 Q. You didn't walk up that -- that channel to 12 see, though? 13 Of D3? Α. 14 Q. Up D2. 15 Not up D2. Α. 16 I don't know that we've had any of 0. 17 the witnesses that have walked up D2. Let's see. One -- I would probably say that Jordan 18 Α. 19 would be the one that would have walked that and know exactly where it goes, because it's their property. 20 But I don't know if he was asked to -- to do anything 21 22 on it. 23 THE HEARING OFFICER: Yeah. That's -- that's 24 all the questions I had. So coming back to you, Mr. Manwaring, did 25

1	you have any follow-up?
2	
3	REDIRECT EXAMINATION
4	BY MR. MANWARING:
5	Q. Just on that same exhibit that you're
6	looking at, Dave, is D3, is that Lee Creek?
7	A. That's correct.
8	Q. There's a culvert right there that the road
9	goes over?
10	A. That's correct.
11	Q. And when you say you could see evidence
12	that, as James testified, he kind of moved some of the
13	stuff around in there years ago, where do you see that?
14	A. It's just when you're when you're down
15	in there, because I walked all the way through, the
16	brush is kind of cleaned out that whole area. And
17	everywhere else it's packed in tight. You're moving
18	branches and stuff. And it just kind of come into an
19	open area as you're coming through there.
20	Q. Okay. So part of that open area that you
21	can see with the tracks between D3 and D2, is that part
22	of the area you can tell has been moved or changed?
23	A. Between D2 and D3?
24	Q. On the on what looks like road tracks
25	through there.

1 Well, that's actually the road -- and Α. 2 that's their property line. 3 0. Okay. 4 Because there's a fence that runs -- you Α. In fact, you 5 can almost see the fence on this map. The fence runs right through. So you can see 6 that culvert is right on the fence line, and so is the 7 8 other -- so it's right on their property line. 9 0. Okay. 10 So it's on their property. And I -- I guess you could probably figure with Google imagery how 11 12 far the two are apart. But they're not right next to 13 each other. You're not going to throw a tennis ball and touch either one. It's a -- it's a distance apart. 14 15 And D1 is Stroud Creek? 0. 16 Α. That's correct. 17 And there's a culvert there? Q. 18 Α. That's correct. 19 THE HEARING OFFICER: Okay. Any other 20 questions? 21 Mr. Johnson, go ahead. 22 I got one more. MR. JOHNSON: 23 111 24 111 25 111

1	RECROSS-EXAMINATION
2	BY MR. JOHNSON:
3	Q. Okay. You followed up Stroud Creek down
4	through there. I'm going to talk about where the west
5	springs are.
6	Okay?
7	A. Okay.
8	Q. When the water's coming down through the
9	willows there on the west spring, is there much water
10	coming over the top of the bank there to going down
11	to by Stroud Creek? [Unintelligible.]
12	A. The ditch that's dug below the springs?
13	Because the because it's higher on the low end.
14	Q. Okay.
15	A. So the water most of the water is
16	captured.
17	Q. To me the pictures show that the the
18	[unintelligible] the west spring ditch, trench has
19	been dug, they said that it runs back and forth, comes
20	across there, takes the water out over there; right?
21	A. Right.
22	Q. Okay. So what I'm so the Stroud water
23	is above there, the way I think, it is filtering down
24	through the willows?
25	A. Right.

1 Okay. So is this west spring Right. 0. 2 channel catching all that water that's coming down through there, or is there some coming over to go on 3 4 down? Or what's going on in there? When it comes down through, it hits -- all 5 the water that's in the spring gets captured by that 6 kind of S-shaped ditch. And it's carried over to the 7 8 east and gets -- goes into the -- basically like I said 9 before, it goes into their ditch system for a short 10 period. And that's when it's shipped back across it. 11 MR. JOHNSON: Okay. 12 THE HEARING OFFICER: Okay. Thank you, 13 Mr. Tomchak. Mr. Manwaring, any other witnesses? 14 15 MR. MANWARING: No other witnesses. 16 THE HEARING OFFICER: Okay. We turn now to 17 Protestant Steven Johnson. 18 Mr. Johnson, much like Ms. Foster, you're 19 able to come up here and make a statement on your own 20 behalf. You, of course, are subject to 21 cross-examination. 22 MR. JOHNSON: Okay. Real quick, James, did I -- is that 23 MR. HARRIS: 24 all the witnesses that Mr. Manwaring was going to call? 25 THE HEARING OFFICER: Yes.

1	MR. HARRIS: Okay.
2	THE HEARING OFFICER: Mr. Johnson.
3	MR. JOHNSON: One second. I better step out
4	here for a second.
5	UNIDENTIFIED SPEAKER: Smart man.
6	THE HEARING OFFICER: Okay. Let's take a break.
7	MS. YENTER: Pause this or stop it?
8	THE HEARING OFFICER: Just pause it. We got a
9	long ways to go.
10	MS. YENTER: Okay.
11	(Recess.)
12	MS. YENTER: Okay.
13	THE HEARING OFFICER: Okay. We are back on the
14	record.
15	And we are at the part of the hearing where
16	Mr Protestant Steven Johnson is going to present
17	his testimony in the matter.
18	
19	STEVEN L. JOHNSON,
20	having been called as a witness by Protestant Steven L.
21	Johnson, was duly sworn and testified as follows:
22	
23	THE HEARING OFFICER: So, Mr. Johnson, do you
24	solemnly affirm the testimony you're about to give is
25	the truth, the whole truth, and nothing but the truth?

1	THE WITNESS: Yes, I do.
2	THE HEARING OFFICER: Okay. You can have a
3	seat. And you can just go ahead and provide narrative
4	testimony. That would be fine.
5	
6	DIRECT TESTIMONY
7	BY MR. JOHNSON:
8	I'm going to talk here today I'll try to
9	stay in the boundaries what we talked about. These
10	things that prepared for us, I want to compliment to
11	all you guys. We appreciate it, the information you
12	brought to us and that.
13	But there's some I want to go back to
14	like some common sense, what's really happening out
15	here in our country. It's good to have these
16	guidelines for us.
17	But I sit back and I listen to everybody
18	and I watch my neighbors, what's going on through the
19	years, so I would like to and I've learned some, and
20	I'm still learning, and there's a lot of it I do not
21	know. That's when you start coming back to me on a lot
22	of this stuff, I'm not going to know nothing about it.
23	So let's see. What was I going to go to?
24	There's some things piled in this one or
25	two, I might come back into it a little bit here a

1 So what I'd like to do is let's start little later on. 2 with the picture up here on this. We talked with the flow of the water coming 3 4 from Stroud Creek and that. 5 Where is the culverts at? Oh, right here. Here it is. Right here. Okay. Let's see. 6 7 MR. HARRIS: If you need me to zoom out, just 8 let me know. 9 Yeah, zoom out just for a minute. MR. JOHNSON: 10 Right here. Can you move it up just a little Okay. 11 bit more for a minute? Let's see. No, the other way. 12 Back just a touch. Okay. Right here. Whoa. 13 All right. This is the fence line. Mу 14 property -- this is the BLM -- let's see, the culverts 15 are right there, aren't they? 16 THE HEARING OFFICER: Uh-huh, yep. 17 MR. JOHNSON: Okay. The fence line comes down 18 here, and this is my property right here and that comes 19 up to here. 20 Okay. I listened to this testimonies here 21 today, if I would have been the top of this -- my 160 comes up here, right there, down off from the top of my 22 160 up there is where the west spring channel comes out 23 of that channel -- that ditch comes across there at 24 25 there. Okay?

1 Just below there, this water in here kind of -- kind of it's really wet and that. But down along 2 3 here, all this water, this ground's a little higher 4 over here, and all this water in this country is a running this way. It don't run back this way. Okay? 5 It runs down here, and it turns and it 6 7 comes down through here like this, for everybody's 8 information. Okay? 9 Bring it down, Rob. Back down. Okay. 10 Okay. Thank you. 11 Okay. Two culverts here. They are 12 definitely apart. There's no -- supposedly this outside one -- or this one over here is Stroud Creek, 13 and this one is -- is Lee Creek. 14 15 Okay. I run cattle. This is my BLM in 16 I run cattle in here. They talked about a 17 little ridge comes down through here. There is. It's not very high, but it is there. There's quaking aspens 18 19 grows on that little ridge down through there. 20 So it shows you it's definite. And the 21 side where the creeks are at, there's water, and some 22 places down in there there's -- them quaking aspens 23 will not grow right close to the ditch, because all 24 them quaking aspens is dying. 111 25

1 **EXAMINATION** 2 BY THE HEARING OFFICER: 3 Mr. Johnson, have a seat. And I'd like you 0. 4 to actually turn to Figure 3. It's just going to make the record better. Using the map up there is not as 5 effective as being able to refer to D1, D2, and D3. 6 7 So when you talk about a ridge, where does 8 that -- where is that located? And please refer to the 9 D1, D2, or D3. 10 That -- that ridge is in between D2 Α. Okay. 11 and D3. 12 Okay. 0. 13 Α. That shows it down through there. And them quaking aspens died, and I don't know why, but they've 14 15 all been dying at the same time, and they fell over. And they're in -- in kind of almost in both end 16 17 channels. So what I'm trying to say is places it's 18 19 dammed it up, the water a little bit down through 20 But it's just washed around the trees and stayed in the channel. It has not crossed. 21 That's been one of the big concerns here. So I just wanted to 22 get that clarified here. Okay? 23 24 0. What do you mean? It has not crossed from 25 where to where?

- 1 It has not cross from -- from Stroud Α. Okay. Creek to Lee Creek or Lee Creek to Stroud Creek. 2 3 It comes down to a point and goes has not crossed. 4 clear through and comes out, like everybody's been 5 saying, down there below Bruce's upper point of diversion. 6 7 How far north of this -- this cross road, 0. 8 this east-west road, does that ridge extend? The ridge between D2 and D3, how far north does that extend? 9
 - A. That old ridge pretty well -- as it goes down, it gets a little smaller. It just -- it just kind of more or less follows just like the -- the water -- the two streambeds shows in the picture, it does that kind of like, pretty well most of that, down through there. And at the tail end there, like it becomes more of willows right down at the tail end there.
 - Q. Okay. Trees up here at the top, but willows down at the end?
 - A. The what?

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

- Q. Trees up here at the top by the road, but willows farther down; is that what you're saying?
- A. There's willows along the streambeds. But in between them there's kind of just -- it's not much in there. It just kind of comes up, and that's where

1 the quaking aspens grow. And then on the outside the streambeds, too, where it comes up off the streambed a 2 3 little bit, there will be some quaking aspens down 4 along there. In other words, what I'm trying to say is 5 the streambed down through there is almost on both 6 sides almost lower than what the little ridge is in 7 8 because for the quaking aspens, it would be too boggy 9 and the quaking aspens wouldn't grow. That's what I'm 10 trying to say. 11 Q. Okay. Go ahead. I'm sorry. It's just --12 It's okay. It's okay. Α. It's more helpful to look at a map that 13 Q. will -- that will be with me in the record --14 15 That's okay. That's fine. Α. 16 -- than this that isn't going to be with Q. 17 me. 18 That's fine. Α. 19 Go ahead. Q. 20 Α. Okay. I don't know if this is appropriate, but one of the things that come to my mind is we're 21 talking about the water from Rosalie's corrals down 22 23 through the willows there today. And I just asked this question a few minutes ago to him. 24

There's been no record, as far as I'm

25

1	concerned that I've heard the last two days, if there's
2	been a measurement, how much water is coming out of
3	Stroud Creek up there and how much is coming through to
4	whatever. In other words, is it all sinking in there?
5	I'm hearing that there's no water down here at the
6	bottom now. What's going on here?
7	I don't know where the answer is at. Maybe
8	James can find that out or whatever down the road or
9	whatever. That's something that I see there that's
10	going on in our community and what's going on up there.
11	We talked about the Kauer Ditch. They shut
12	it off because it didn't have rights through it or
13	whatever. Well, today I heard there really wasn't a
14	right going down through Whittaker property either.
15	If that's right, then so how are they
16	supposed to get their water through?
17	I'm glad I'm not James Cefalo to have to
18	come up with all these answers when he gets through
19	with this.
20	Okay. Another thing I want to talk about
21	is the spring up there. There's a question on whose it
22	is. And I suspect and I don't want to take sides
23	here. But the question is, what I look after me
24	myself, I have to ask myself this: Why whose spring
25	is it? Okay.

1 According to water lease Whittakers or whatever they filed back then, it was theirs or 2 3 whatever, and then the adjudication it got some ruling 4 I don't know if it's right or not. changed. 5 But the question I have to ask myself, so who dug the spring? So did Bruce come up dig the 6 7 spring on Whittakers' ground? Did the Whittakers let 8 him do it? No, I don't know if they would or not. 9 Did Whittakers go dig that spring for 10 I don't know. So whose spring is it? Bruce? 11 still up in the air. Whose spring is it, the way it is 12 today? That's things that common sense, I have to go out, and I look at things when I hear things, and I --13 14 it makes me -- that's why that brings it to my 15 attention. 16 Mr. Johnson, I'm -- I'm most interested, 0. 17 actually, in your water rights. And I was hoping that here, as you took the stand, that we would focus on --18 19 I was going to talk about that --Α. 20 0. Great. -- here in a few minutes. 21 Α. Well, okay. 22 Q. 23 Α. Okay. 24 0. I just want to make sure that that's part 25 of your -- your plan.

1 Α. That's my plan. 2 Q. Okay. Okay. Let's see. I want to talk about 3 Α. 4 Bruce's ditch that he's trying to make a transfer on. I've talked to my neighbors, and they -- I -- we 5 Neighbors talk and that. I talked one of my 6 talk. neighbors, and he says, "You know, that ditch has been 7 8 there forever. My dad was the watermaster, and that ditch was there at that time." 9 10 So what's happened? Why did them water 11 rights end up in the top ditch? What's going on here? 12 I feel like that ditch probably will affect 13 my water rights. Let me back that up. If I knew for 14 sure how the spring water was going to go and Stroud 15 Creek was going to go, their water rights, in other 16 words, if Bruce was going to get them or whatever, it 17 would make me decide what I'd do on my water rights. But my water rights is so small. It's just 18 I would like to have -- in other words, if they lost --19 20 if they don't get the spring and they don't -- and they don't have no water rights out of Stroud Creek, what 21 little bit of water there is there I can go back --22 I've got to rephrase, back up a little bit. 23 24 For like last summer at the end of the year when Bruce lost his water in his ditch, they shut Bruce 25

1 off in his ditch, what water was coming down there, going down the ditch, I took out and I used down there. 2 3 And I was able to have my stock water. 4 But if you put it back in Bruce's ditch, I 5 don't know if there would have been enough to go down. It would have been called back for futile call, is what 6 7 I'm trying to say. 8 And at that time Whittakers didn't have enough water to run all their circles -- their circle 9 10 It was only run half stream, so that tells up there. me that -- that what little bit was coming down through 11 12 there was a little bit of spring water coming down, 13 seeping back in down through there, below there. 14 Okay. My water rights? I have not used 15 them much, to be very honest with you. They're such 16 poor water rights and it's so little. 17 Bruce asked me a while back ago, he didn't know where that point of diversion was at between his 18 19 upper point and his lower point. I had somebody come and find -- GPS it in for me because I didn't know 20 where it was at for sure. And I -- it was right there 21 22 in front of me. 23 There was a -- when I bought the place, 24 there was people traveling through there and through

the creek down there [unintelligible], well, it was

25

1 right in the streambeds channel right there where it 2 comes out. It's right on the streambed channel where 3 it comes out at. 4 Thank you for Mr. King on his paperwork. 5 My other point of diversion down there, my one other point of diversion down there, it shows that 6 I got to go check it out. But where it's 7 it's wrong. 8 deeded out is nowhere near where it's supposed to be, 9 because that ditch goes out, goes right up to my -- up 10 the sidehill into my yard, and that's where it's supposed to be irrigated at under my stock water 11 12 rights, the same place, right there. And it shows it's clear over in another 13 14 [unintelligible], so I got to go check that out. 15 appreciate that, Mr. King, putting that 16 [unintelligible]. 17 My other water right below the road I've used -- I used it last year, and five, six years ago I 18 19 used some. I'm --20 Here, I'm going to hand you this. 21 want to make sure we're understanding what you're talking about. 22 23 Α. Okay. 24 0. So no. I'm just going to let you look at 25 this map.

1 So your -- purple triangles are your water 2 rights. 3 Right. Α. 4 And as you can see, Mr. Johnson, that upper Q. one is between McConnells' two ditches. 5 6 Α. Right. 7 And so if you want to start up there. know, a question was asked earlier --8 James, if I might just for the 9 MR. BROMLEY: 10 record, where are you looking? 11 THE HEARING OFFICER: Oh, I apologize. 12 MR. BROMLEY: [Unintelligible] which page? 13 THE HEARING OFFICER: This is in Mr. King's exhibit. 14 15 MR. BROMLEY: So Exhibit 1, page --16 THE HEARING OFFICER: It is. Page --17 UNIDENTIFIED SPEAKER: 15. THE HEARING OFFICER: -- 15. I think that it's 18 19 kind of a helpful map --20 MR. BROMLEY: Thank you. THE HEARING OFFICER: -- that Mr. King put 21 together, especially in terms of Mr. Johnson's water 22 rights and where they sit on the creek. 23 So I want to start at that 74-1831. 24 0. 25 Okay. Α.

1 Mr. Johnson, you're -- I think you were Q. touching on that. A question was raised earlier in the 2 3 hearing, is there actually a ditch at that location. 4 And you're saying there is? 5 Α. There is. Hidden down in the creek bottom --6 Q. 7 Α. Yes. 8 -- there is some way to get water out? Q. Yes, there is. And it goes through, and it 9 Α. 10 goes right around. And after I fished --[unintelligible] follow right around, it goes through, 11 12 and works up on the sagebrush -- up through some 13 sagebrush on the high point there. And I -- and I fed cows there the last 14 15 couple years over that high sagebrush point, and I was, What the heck? How come this is so darn rough in here? 16 17 But it's the ditch. It's -- you can see it. There's an old ditch there, but there's no 18 0. 19 headgate? 20 Α. No, there's --Is -- is there an active diversion dam at 21 Q. Is there -- meaning is there a -- is 22 that location? there a dam in the creek to push water? 23 24 Α. No. So not a headgate, not a diversion dam. 25 Q.

- But there is an old remnant ditch that you've found that does travel out. Okay. Great.
 - A. 74-949.

3

7

9

18

19

20

21

22

- Q. Let me ask one more question on 1831.

 You haven't diverted water in the time that
 you've owned the property through that old remnant
 - A. No, I have not --
 - Q. Okay.

ditch?

- 10 -- to be very honest with you. And one of Α. the reasons why I have, my water right's small and it's 11 12 such a junior water right to Bruce McConnell, what water gets down there, I didn't think I'd ever get it. 13 But there's only been a couple years that I probably 14 15 could have had it. But it was over here -- it was overflowing his ditch bank, so I was benefiting from 16 17 it.
 - Q. Have you ever -- yeah, I mean that property could also be irrigated out of McConnells' upper ditch; right? Because McConnells' upper ditch is the upstream -- is upstream of that -- of that field or that pasture.
- A. It could be, but it's sitting on BLM, and it's very hard for me to go and dig a ditch out to it.
- 25 Q. Okay.

1 Α. To be very honest with you. 2 Q. You bet. 3 You know, the procedure that --Α. 4 But you've benefited in some years if Q. McConnells' ditch is overflowing, that that water can 5 come down through that property. 6 7 Move on to your -- what is it? Okay. 949? 8 Is that the next one downstream? 9 That's the next one that says it's supposed Α. 10 to go up to my yard. It's yard. It comes out. About five years after I was here, I took some dirt up and 11 12 plugged it off, because in the wintertime it ice up so 13 bad and flood my corrals and that with ice and that in the wintertime. But that's where my stock water is out 14 15 at, supposed to be out that point of diversion. 16 Okay. And that's the one I'm saying that 17 description isn't right. I've got to come back to Water Resource Board and go get it right. 18 19 Point of diversion isn't in the right Q. 20 place? Point of diversion in the right place. 21 Α. Okay. So you're going to need to move 22 0. 23 that. Okay. 24 74-15201, I've used water out of that point Α. of diversion three or four times down there. 25 And it's

1 across the road. It's right there. And it goes out on that hill down there. 2 3 Does that water that you divert there 0. 4 comingle with water from another source? 5 Α. Yes, it does. What is that other source? Is it Big Eight 6 Q. Mile? 7 Big Eight Mile. Α. 9 -- that's bringing down? 0. 10 Α. Yes. So you are able to divert out of Lee 11 Q. Okay. 12 Creek over into a separate ditch before irrigation or a common ditch with your Big Eight Mile water? 13 Big Eight Mile is coming to a circle, and I 14 Α. 15 just run that up out of the ditch and it goes up on the hill, and I've got a ditch going across that runs down 16 17 through there. 18 0. Okay. Do you run -- can you run the Lee 19 Creek water through your pivot? 20 Α. No, I can't. 21 Q. So the Lee Creek water you can only No. 22 flood-irrigate? 23 Right. Α. Okay. So you -- while that ground may be 24 0. irrigated from both sources, you aren't commingling the 25

- water before irrigation, rather Lee Creek can do some
 flood irrigation, but there's a pivot that is
 pressurized from Big Eight Mile?
 - A. Yeah.

- Q. Okay. I appreciate that.
- A. Okay. And yesterday in the hearings I listened to you guys talk and that, and I heard several times call for your water. Call for your water. I think I'm going to put headgates in and I'm going to call for my water. And it's going to be, to be very honest with you, it might be more than five years, seven years before I ever get my water to be able to use it, other than my stock water. So that's how I feel about it.
- Q. I appreciate your testimony. I do have -- go ahead.
- A. And my protest, original protest on Bruce was my water right should become effective before Bruce's water rights in that ditch, because it was going to be a 1920 point of diversion, and my water right should come before them.
- 22 And -- and that's -- in some ways that's
 23 where I still stand at. I don't think the law quite
 24 reads that way, to be very honest with you. So I don't
 25 know. But I -- I feel that way still today. And my

1 spring [unintelligible] high flow. 2 Okay. Bruce, yesterday in your -- in your 3 testimony you said you was president of the system for 4 several years. For your information, they've elected 5 me president this year. Okay? 6 MS. YENTER: I feel like that's no longer a 7 mystery. 8 So I appreciate what you've done THE WITNESS: 9 in the past. And I -- I want to continue here on a 10 couple things. 11 I want to appreciate my -- Bruce and his 12 family and the Whittaker family, I sit between them. I 13 appreciate them being such good neighbors. And they 14 both got older water rights than I do, and they're 15 irritating and I'm burning up. And sometimes it's 16 pretty hard to take. But that's life, I guess. 17 I was talking about Bruce's headgate, that -- his ditch down there also. Back to that again. 18 19 I feel like my water right should come before that in a 20 way, but yet that ditch has been there for a lot of 21 years, and I don't know. Too bad we can't make it work so it don't jeopardize everybody else. 22 23 One of the main things I see is we just need -- we cannot make water. We cannot make water. 24 25 Mother Nature has to help us. And that's the -- in a

1 way, that's the bottom line. This Stroud Creek water and Everson water 2 and Lee Creek water, I have to look back at the picture 3 4 clear back when they filed for these water rights. Okay? I'd have to go back and look at these. 5 Why -- why was Tomchaks' and Fosters' water 6 right filed out of Everson or whatever -- Everson or 7 8 whatever it was? Okay. When did it become a tributary to Lee Creek, if that's what you're trying to say? 9 I 10 don't -- so that -- to me, them water rights should be 11 that Everson. 12 We got an incident going right now. 13 brought it to us here in our community in Mill Creek 14 over here, they're trying to join another system to 15 Mill Creek. And it's clear across the valley. 16 did they join Lee Creek, Stroud Creek? Lee Creek, was 17 it originally started there or when? When did they join Lee Creek and Eight Mile together as that one 18 19 water system? 20 I guess I'm glad I'm not you. There was -- Bruce's new ditch. 21 So maybe that kind of covers it. I got another thing, I'm going 22 to come back to the -- right here in 4, in this 23 pamphlet No. 4, we talked about, it was talked about 24 yesterday several times about Bruce McConnell -- it's 25

1 the letter that Bruce and Glenda McConnell last fall closer to their -- to their lower division --2 3 diversion. Okay. 4 Right in here also in this one, as president of the systems, of Eight Mile and Lee Creek 5 over there, I'm getting hit by people. But right here 6 it says, right here also in this -- let's see. 7 8 upper diversion is also required to have a controllable, lockable headgate installed. Compliance 9 10 with that requirement may be delayed until fall of this 11 year, but no later than the start of the irrigation 12 spring of next year." I got -- I'll take myself, for instance. 13 14 Down there I've got water's coming past, Bruce can't 15 take that water in that point of diversion. It's going down the ditch. And I've -- the other day I thought I 16 17 should go -- I don't know how much headgates. I been going build them there all winter along. I haven't got 18 19 them in. I should be taking it. 20 But there was a comment made to somebody else on Eight Mile that if they don't have -- put their 21 point of diversion, there's going to be a \$10,000 fine. 22 I told my boy the other day, "What should I do?" 23 He says, "Don't put it in, Dad. You don't 24 25 want to pay \$10,000."

1 Now, if it's right or not, I don't know. 2 This is hearsay, so I come to the meeting. But I got 3 people on the system, point of diversion say it's 4 legal. And so I was probably talking to you later 5 on, Mr. Cefalo, I forgot where I stand on that -- on 6 7 this deal, so -- or Cindy. Okay. That would be fine. 8 [Unintelligible.] (BY THE HEARING OFFICER): No, I just don't 9 10 want to get in the middle of headgates up here. We've 11 got -- that's why [unintelligible] in place. 12 And I have a problem with these lockable Α. 13 headgates. 14 Ο. We can -- we can take that up somewhere 15 else. 16 Okay. One --Α. 17 I have a couple more --Q. One second. I'll just finish this up right 18 Α. 19 quick like. 20 We're in a community up here, and we don't 21 have a lot of water, and we got to be all amongst our users, and we got to make things work. We have our 22 23 guidelines here and here and here to make things work. 24 But we got to use some common sense what's right, what makes it work for everybody. 25

1 You know, when you put lockable headgate, I'm sorry, but I feel like we're all the biggest crooks 2 3 out there, because they all got to have them on. 4 think we try to get along with everybody. It goes 5 pretty well. But that's [unintelligible]. In 2020, Mr. Johnson, when -- when Bruce 6 Q. was shut off in late summer --7 Α. Yes. 9 0. -- water came down to you? 10 Α. Yes. 11 Q. How did you use it? Did you irrigate with 12 it in 2020, or did you --13 Α. I did. 14 0. -- stock -- you just used it for stock 15 water? I used -- I irrigated. 16 Α. 17 You were able to irrigate. Q. And that's flood irrigation through the 18 19 15201, through that lower ditch? 20 Α. Yes. 21 Okay. Last question is, are there times 22 when Lee Creek flows down through to the Lemhi River? 23 Other people have testified Lee Creek flows through 24 your property, so you get to see it after all of the big diversions as it's on its way down. 25 Are there

```
1
     times of the year when it will flow down through to the
2
     lower --
3
                  In the wintertime --
            Α.
4
                  -- Lee Creek?
             Q.
                  In the wintertime it's short, a little --
5
            Α.
     maybe a little time in the spring is all.
6
                         Snowmelt -- high -- high-flow
7
                  Okay.
            0.
8
     snowmelt?
                 Okay. But usually --
9
                  Generally --
            Α.
10
             Q.
                  I'm sorry.
                  If we have a real good year -- no, it
11
            Α.
12
     pretty well took -- it's taking it [unintelligible]
13
     too.
           Yeah, it is. It is.
14
            Q.
                  Okay. During the summer, though, it's
15
     dried up entirely?
16
                  Yes. Yes, it is.
            Α.
17
            THE HEARING OFFICER: Thank you.
                  Mr. Bromley, do you have any questions for
18
19
     this witness?
20
            MR. BROMLEY:
                           I do, a few.
                           Okay. How do I [unintelligible].
21
             THE WITNESS:
22
23
                         CROSS-EXAMINATION
     BY MR. BROMLEY:
24
                              I'm Chris Bromley on behalf of
25
            Q.
                  Hi, Steve.
```

1	the McConnells.
2	Keeping with that Figure 10 that you've got
3	open in front of you in Exhibit 1, so the water right
4	74-15201, that's the that's the Lee Creek diversion
5	that you've used?
6	A. Uh-huh.
7	Q. And then you said you've used it three to
8	four times.
9	Do you remember when those three to four
10	times were?
11	A. I used a little bit when Tom Udy was the
12	watermaster. And he didn't record it because he
13	combines his "That little dab of water you got out,
14	I'm not doing it. I'm going to overlook it," what he
15	told me.
16	And then one other time I used it a couple
17	of days is all, but til and since then I'm four
18	years ago or something like that, just a couple days.
19	Q. Okay. So four years ago for a couple days?
20	A. Yeah.
21	Q. And when you've used it to irrigate, how
22	many acres do you think you've irrigated it?
23	A. Well, back then I don't know. Three or
24	four, five. I don't there's not much water. It
25	don't cover very much, to be very honest with you.

1 0. And yet --Last year -- last year I had some water, 2 Α. and I covered 8, 10 acres with it. 3 4 Okay. Q. To be very honest with you. 5 Α. And you also have water coming from the Big 6 Q. Eight Mile side? 7 8 Α. Yes. 9 So that's the water -- is that the water 0. 10 you rely on is the Big Eight Mile water? 11 Α. Yeah. 12 Q. Okay. That diversion 74-949, have you diverted water there? 13 No, I haven't. 14 Α. 15 Okay. And the diversion 74-1831, have you 0. diverted water there? 16 17 Α. No. Okay. And then I'm just working my way 18 0. 19 up -- up the drainage. 20 You had talked, Steven, about the quaking 21 aspen? 22 Yeah. Α. 23 And this is the area below the D1, D2, D3 Q. in that figure that Mr. Cefalo had you looking at, and 24 when I was watching you, I thought I saw you -- so you 25

- were talking about the quaking aspen, but there's a

 little bit of a ridge, and I thought I saw you with a

 hand sort of down like shin level, ankle --
 - A. It's hard -- yeah, it -- not much in there, you know. When you cross -- if you -- if it's low or the creek's all I can tell you down through there, you know. It's not a big ridge. Sometimes you guys are trying to make a great big ridge out of it. It's not that. It's -- it's low.
 - Q. Right. And I just -- I noticed you were gesturing with your hand down by your ankle, and so that's -- that's the size of the --
 - A. Yeah.
 - O. Yeah.

- 15 A. It's not very tall in there.
- Q. Right. And then last question that I have
 is, how long do you think that lower diversion has been
 there on McConnells' place? I thought I heard you say
 a long time.
 - A. Okay. I guess I moved here 120 -- 2008.

 It was there at that time. And I'm just taking word

 from my neighbors, and that's all. And they didn't say

 for sure how long. They said all I know is their dad

 was -- his dad watermaster there [unintelligible].
- 25 MR. BROMLEY: Great. Thank you.

1	I don't have any further questions.
2	THE HEARING OFFICER: Okay.
3	Mr. Manwaring, any questions for this
4	witness?
5	MR. MANWARING: I don't have any questions for
6	Steve. Thank you.
7	THE HEARING OFFICER: Okay.
8	MS. FOSTER: I'm good.
9	THE HEARING OFFICER: Mr. Harris, anything?
10	MR. HARRIS: None for me.
11	THE HEARING OFFICER: Okay. Thank you. Thanks
12	for staying with us through this hearing.
13	THE WITNESS: Yeah.
14	THE HEARING OFFICER: Okay. Mr. King, I'll
15	swear you in again, since we're on a new day.
16	
17	SCOTT KING,
18	having been called as a rebuttal witness by the
19	Applicants, was duly sworn and testified as follows:
20	
21	THE HEARING OFFICER: Do you solemnly affirm
22	that the testimony you're about to give here on the
23	second day of hearing is the truth, the whole truth,
24	and nothing but the truth?
25	THE WITNESS: I do affirm.

1	THE HEARING OFFICER: Okay. Go ahead.
2	
3	DIRECT EXAMINATION
4	BY MR. BROMLEY:
5	Q. Hey, Scott, you've been here for yesterday
6	and today. You've heard testimony from various
7	witnesses, including expert Bryce Contor.
8	Any points you'd like to address, given
9	what you've heard?
10	A. Yes, I do have a few points. First of all,
11	in Bryce's west spring report and I forget which
12	exhibit that is, but there was a Figure 12, which is a
13	photograph that I believe shows water flowing over a
14	weir that was just Stroud Creek water.
15	MR. HARRIS: Hold on. Could we
16	THE WITNESS: Yeah, we can certainly open to
17	that.
18	THE HEARING OFFICER: Uh-huh.
19	MR. HARRIS: You're going fast, and I just need
20	to [unintelligible].
21	THE HEARING OFFICER: One of these
22	[unintelligible].
23	MR. HARRIS: You said Figure 12?
24	THE WITNESS: Yes. This was in the west spring
25	report.

1 THE HEARING OFFICER: So 153. 2 THE WITNESS: 153. THE HEARING OFFICER: 3 Right. 4 THE WITNESS: Yep, that's the one. 5 MR. BROMLEY: Rob. 6 MR. HARRIS: Yeah. 7 THE WITNESS: And if I understand right, that 8 photograph was taken on the left side of that stream. 9 That was the water that's not being diverted by 10 Whittaker. Whittakers' headgate was in the stream controlling the water and pushing it over into their 11 12 diversion. So this is water that's flowing past the 13 headgate over this weir. My point with this was, that, to me, looks 14 15 like a significant amount of water. I don't have a measurement, I don't recall seeing one, but to me it 16 looks like if that water was contained in a channel and 17 flowing downstream we should see it down there. 18 19 But there's been discussion of it flowing 20 through all these diffuse different places as it's going down through. And so that's just kind of a point 21 that I'm bringing up is that looks like a bit of water 22 23 that should make it to the bottom if it was staying in a channel. 24 One of the things I looked at that I don't 25

have an exhibit of is the 1884 government land office plat maps. Reviewed those. And I was looking specifically at the confluence between Stroud Creek and Lee Creek. And that map shows that confluence at the south boundary of the southeast quarter of the northeast quarter of section 30. That's exactly consistent with what the USGS quad map here says.

And I didn't get a chance to look, but the surveyors in those government land office maps also talk about their survey and their chainage along section lines. So someone could look and see if there were multiple channels around that section 30, but none were depicted on the map. Clearly showing that those channels converged right there at that south boundary of the southeast northeast section 30.

So then that will take me to this quad map.

And if I look at this confluence -- and I got to get

really close and take my glasses off and look there,

but there's an "X" right there along the roadway, and

there's numbers that say "6531." It's a survey mark.

There were surveyors there, and they probably placed a marker. And that marker at that elevation is right next to the confluence. As I hear him talking about flowing a tennis ball, by the looks of that map they could have thrown a tennis ball at

1	that confluence.
2	So the surveyors in 1884 placed it there.
3	And that wasn't from imagery. That was from surveyors
4	out there on the ground. And that's consistent with
5	that map and some surveyor that placed a mark at that
6	spot.
7	The next maps we have are the 1954
8	engineer's map.
9	MR. HARRIS: I think I'm going to lodge an
10	objection. I don't think Mr. Contor testified about
11	this. I don't think this is rebuttal testimony. It's
12	new testimony.
13	THE HEARING OFFICER: No, I think it's rebuttal
14	testimony.
15	MR. HARRIS: Okay.
16	THE HEARING OFFICER: You can add something to
17	the record.
18	MR. BROMLEY: No, I agree with you.
19	THE HEARING OFFICER: Okay. Go ahead, Mr. King.
20	THE WITNESS: Next we have is the 1954 map, and
21	we've talked a whole lot about that. A lot of
22	reference was been given to this colorful engineer's
23	map. And it also shows that confluence, those
24	tributaries right there close to that same location.
25	And that map shows it a little bit more to

1	the south. Definitely not to the north. That's the
2	last map that we have before any discussion was placed
3	about putting culverts in in the '60s or '70s. So we
4	know something was placed in the systems after all
5	three of these maps that have been created, which are
6	consistent.
7	And it was after the culverts that were
8	placed, now we have some kind of testimony or claims
9	that and probably clearly evidence that now those
10	don't confluence right there anymore, that it happened
11	somewhere else.
12	So all the evidence that I see from '54 and
13	before was that those streams had a confluence at that
14	location in this south boundary of the southeast
15	northeast of section 30.
16	Lastly, and this is the most important
17	part. There's also been testimony that Stroud Creek
18	flows into Lee Creek below McConnells' upper diversion,
19	McConnell could never ever get access to Stroud Creek
20	below the upper diversion.
21	If that's correct, there's no reason at all
22	for the Whittaker versus McConnell case in the first
23	place. McConnell could have never had access to Stroud
24	Creek water. So why would anybody go to court for it?
25	MR. BROMLEY: Nothing further.

1	THE HEARING OFFICER: Mr. Harris?
2	
3	CROSS-EXAMINATION
4	BY MR. HARRIS:
5	Q. Scott, you testified that there's an "X"
6	mark and a "6531."
7	Did you testify that's a survey mark, like
8	a corner mark?
9	A. I expect that to be I wasn't there, but
10	based on my experience with USGS quad maps and those X
11	marks with an elevation mark, that somebody surveyed
12	that surveyed an elevation at that point. They may
13	have placed
14	Q. Hold on. Hold on.
15	Surveyed an elevation?
16	A. Yes.
17	Q. But didn't necessarily survey a
18	something of significance, like a like a corner of a
19	section?
20	A. They may or they may not have. There's
21	different marks, depending on what they're placing
22	there. Sometimes there's a mark for a benchmark.
23	Q. So you're you're saying that's an
24	elevation?
25	A. I'm saying that they marked an X and placed

1 an elevation number at that X point. 2 Q. Okay. And are you saying that's significant because you think they were marking the 3 4 confluence of stream channels? 5 No, not marking the confluence. But they were right there at the confluence. 6 They were 7 surveying an elevation that was very near the 8 That's feet away, maybe yards. I mean confluence. 9 like 10 or something. 10 Q. Would you --11 Α. I didn't zoom in it to see the distance, 12 but it's really close to that confluence. 13 Q. Would you agree with me that as far as 14 pinpoint accuracy that as we've gone over time maps 15 have gotten more accurate, an 1884 map is probably not 16 as accurate as the maps we're able to create today? 17 Generally so, yes. Α. 18 0. Okay. And then you made some comments at 19 the very end about the Kauer versus Whittaker case. 20 Did you review any of the record of that

case or the Supreme Court opinion? Were you asked to

I was not asked to. I have glanced through

And you started out by looking at

21

22

23

24

25

it.

do that for this case?

Okay.

Α.

Q.

1 And you just said this looks like a the Figure 12. significant amount of water. And I didn't catch the 2 significance of why you think that's important. 3 4 Or are you implying something that maybe is 5 going unsaid? My implication there is that looks like a 6 Α. 7 significant amount of water. It's measurable. Uh-huh. Q. There's enough water going over a weir that 9 Α. 10 it could be measured. 11 0. That's why there's a weir there? 12 Yes. Α. 13 OPERATOR: Hello. There doesn't appear to be 14 any activity in this meeting. 15 THE HEARING OFFICER: There isn't. 16 MS. YENTER: Bye. 17 THE HEARING OFFICER: There isn't any activity 18 here. 19 THE WITNESS: And then my point is, is I'm not 20 sure that anybody's testified that they saw that same amount of water downstream. There was talk from Bryce 21 and from others that there's water that now diffuses 22 23 out and flows through different places and rivulets, and David talked about following a channel down. 24 But I'm not sure that anybody has ever said 25

1	we have a bunch of water here. What actually happens
2	to it when it gets to the bottom? And that I'm
3	surmising that if it was in a channel that we could see
4	about that same amount of water at the bottom, that
5	there's these diffuse things that are going on, because
6	I don't think that old channel is there anymore. I
7	think it's been manipulated.
8	Q. And I think that's what everyone said.
9	A. Yeah.
10	Q. But I think people have also testified that
11	they did see water going down through there as
12	[unintelligible]
13	A. I'm not disagreeing with that.
14	Q. Okay.
15	A. I'm just saying I don't see it in the same
16	channel, one channel.
17	MR. HARRIS: That's all the questions I have.
18	Thank you.
19	THE HEARING OFFICER: Okay.
20	Mr. Manwaring?
21	
22	CROSS-EXAMINATION
23	BY MR. MANWARING:
24	Q. As I get your point, Scott, you're just
25	saying the maps all show confluence where the where

1 you say the culverts were placed? 2 Α. And if we were going to point to one place, and I look at the imagery and the topo map right over 3 4 it, it's where the left or westernmost culvert is 5 located, that it shows that confluence there or right upstream of that place. 6 7 And you've heard the testimony that there 0. is in fact topographical feature that separates those 8 two channels in that very area? 9 10 Yes, I have. Α. 11 Q. Still present today? 12 Α. Yes. 13 Q. That's not shown on the topographical map? What's not shown on the topographical map? 14 Α. 15 The fact that there's an elevation between 0. 16 those two creek channels even today? 17 And I think, as Bryce testified, the Α. No. lines are 40 -- 40 feet elevation difference there. 18 19 couldn't be displayed there. But we also heard talk about -- so we 20 21 heard -- we heard discussion from Mr. Whittaker, James, about sheep and not wanting to go through a wet area. 22 And I can see moving a channel and separating that 23 confluence so that there would be more dry area to 24

25

drive sheep through.

1	Q. Well, I understand your point. But what
2	I'm saying is you've all you've heard testimony from
3	various sources that that higher elevation that's
4	between those two natural channels extends down until
5	just above the confluence where it's willows?
6	A. And my disagreement with that would be I
7	don't think that the Stroud Creek is in its old natural
8	channel. I think it's in a different channel now than
9	what it used to be before.
10	Q. That's just your opinion?
11	A. Correct.
12	Q. And you haven't walked that area?
13	A. That's correct.
14	Q. You didn't do what Dave Tomchak did?
15	A. No, I did not.
16	Q. You didn't actually see the physical
17	features and know exactly where that confluence goes?
18	A. As it is today, correct. Yes.
19	MR. MANWARING: Okay. Nothing further.
20	THE HEARING OFFICER: Okay.
21	MS. FOSTER: I'm good.
22	THE HEARING OFFICER: Okay. Good. Thank you.
23	THE WITNESS: Thank you.
24	MS. YENTER: Just pause?
25	THE HEARING OFFICER: Yeah, just pause.

1	(Recess.)
2	THE HEARING OFFICER: So we have reached the end
3	of the presentation of evidence from all of the
4	parties.
5	I should note on the record that Rosalie
6	Ericsson, or her representatives, never participated,
7	never showed up in this hearing.
8	And so unless there's anything else that
9	needs to go on the record, I'll ask one more time.
10	Hearing nothing, seeing nothing, then the
11	record for this case is closed. And I will issue a
12	preliminary order in this matter within 45 days. And a
13	copy of the preliminary order will be mailed to the
14	parties and likely e-mailed to because sometimes the
15	mail takes a long time, and I think it's important for
16	you guys to have that sooner than later.
17	So this hearing is now concluded, and the
18	record is closed.
19	Thank you.
20	MR. BROMLEY: Thank you.
21	(End of audio file.)
22	-000-
23	
24	
25	

Audio Transcription

т			
1	REPORTER'S CERTIFICATE		
2			
3	I, JEFF LaMAR, CSR No. 640, Certified Shorthand		
4	Reporter, certify:		
5	That the audio recording of the proceedings were		
6	transcribed by me or under my direction.		
7	That the foregoing is a true and correct		
8	transcription of all testimony given, to the best of my		
9	ability.		
10	I further certify that I am not a relative or		
11	employee of any attorney or party, nor am I financially		
12	interested in the action.		
13	IN WITNESS WHEREOF, I set my hand and seal this		
14	10th day of January, 2022.		
15			
16			
17			
18			
19			
20			
21	JEFF LaMAR, CSR NO. 640		
22	Notary Public		
23	Post Office Box 2636		
24	Boise, Idaho 83701-2636		
25	My commission expires December 30, 2023		

	423:10	485:25;491:7;492:5	552:3,14;563:5;576:14;
\$	accelerate (1)	additionally (1)	589:14;596:13;606:24;
Ψ	458:6	479:23	610:17;611:18;624:18,19
\$1,700 (1)	access (10)	address (2)	agree (10)
444:8	446:16;481:18,20;482:3,4;	416:4;628:8	440:12,16;445:6,23;
	483:10;513:9;581:7;632:19,	adequate (1)	452:23;453:16;467:14;
\$10,000 (2)	23	459:1	539:14;631:18;634:13
620:22,25	according (5)	Adjudication (8)	agreed (4)
\$100 (1)	471:24;530:9;551:6;	416:22;417:10;428:15;	503:9;506:9;511:5;515:12
513:12	572:11;608:1	442:8;444:21;467:21;469:1;	agreement (3)
\$12 (1)	accuracy (2)	608:3	511:17;515:4;520:25
513:12	575:15;634:14	adjustment (2)	ahead (22)
\$350 (1)	*		
444:9	accurate (6)	492:6,10	415:24;427:20;445:23;
	421:18;437:24;453:17;	administered (1)	449:23;467:25;468:3;
/	485:15;634:15,16	468:18	510:25;517:19;519:4,11;
	accurately (1)	administration (6)	553:1,20;567:19;579:9;
/// (9)	431:14	417:7;420:14;427:4,15;	585:14;597:21;601:3;
415:25;427:25;449:25;	acquired (1)	446:24,25	606:11,19;617:16;628:1;
507:24,25;597:23,24,25;	484:6	administrative (7)	631:19
603:25	acres (16)	446:16;479:16;481:18,20;	aid (2)
003.23	530:10,12;570:19,20,22;	483:10;499:7;518:9	427:23;447:24
[571:4,7,8,9,9,18,23,24,25;	admission (3)	air (1)
L	624:22;625:3	417:12;449:1;541:25	608:11
	across (21)	admit (3)	alive (1)
[phonetic] (2)	423:2;436:6;472:13;	447:7,18;449:14	576:21
428:18;523:22	491:17;530:11;531:12;	ADMITTED (5)	allotted (1)
[unintelligible] (35)	546:16;547:24;550:4;	414:23;448:2,4,8;449:16	582:21
486:14;498:2;506:22;	552:11;555:2;558:18;	adult (1)	allow (7)
507:12;523:8;526:3;548:16;	559:17;566:24;571:13;	508:13	430:3;474:23;475:1,4,14;
550:15;585:23,24;586:10,18,	598:20;599:10;602:24;		539:14;581:14
21,22,22;594:4,10,17;		adversely (1)	
598:11,18;610:25;611:14,	616:1,16;619:15	564:25	allowed (9)
16;612:12;613:11;618:1;	action (1)	aerial (14)	501:23;539:18;545:8;
621:8,11;622:5;623:12,21;	479:16	420:20;421:1,7,8;422:14,	565:5;569:18,22;579:17;
626:24;628:20,22;636:12	actions (1)	15,18;423:1;426:8;437:12,	580:24;582:14
	499:7	20;443:21;444:19;551:1	allowing (3)
${f A}$	active (3)	affect (4)	579:1;581:3,11
	467:21;489:20;613:21	466:4;564:25;566:10;	allows (1)
A0011439 (1)	actively (1)	609:12	467:21
425:11	505:10	affected (1)	almost (8)
abandon (2)	activities (1)	481:14	543:14;556:25,25;591:23;
503:6;515:9	424:12	affects (1)	597:5;604:16;606:6,7
	activity (2)	468:20	along (17)
ability (7)	635:14,17	affidavit (3)	420:6;459:4;460:9;
446:4,5,10;481:22;513:8;	actual (5)	428:19;429:7;532:7	484:20;488:4;492:23;
565:1;566:11	429:15;477:2;551:14;	affirm (7)	522:25;551:25;553:23;
able (20)	566:14:567:9	415:19;502:6;518:17;	590:6;603:2;605:23;606:4;
446:12;506:10,17;510:9;	actually (37)	528:20;600:24;627:21,25	620:18;622:4;630:10,19
517:7;548:17;551:18;	420:2;423:5;434:4;440:7;		
569:13;577:6,20,22;582:19,		affirmed (1)	Although (1)
25;599:19;604:6;610:3;	470:2,3;476:5;490:20,25;	428:19	441:11
616:11;617:12;622:17;	492:9;493:23;512:18;527:7;	Ag (1)	altogether (1)
634:16	531:22;534:14;535:24,25;	417:1	491:9
above (18)	539:22;540:6;542:19;	again (23)	always (7)
438:9;440:24;447:9;	543:19;546:8,18;553:23;	423:13;426:23;432:25;	422:9;424:22;517:9,12;
478:22;485:21;491:17;	554:12;560:12;570:23;	437:22;444:3,4,7;446:20;	545:13,15;567:4
512:2;525:19;531:22;	584:6;585:8;588:10;591:5;	453:14;458:14;466:13;	ambiguity (4)
532:18;536:7;542:17;	597:1;604:4;608:17;613:3;	482:16,21;490:17;502:11;	424:13,14,15,17
575:10;580:23;582:20;	636:1;638:16	537:23;550:22;557:6;568:7;	amended (1)
584:5;598:23;638:5	add (2)	582:5;585:19;618:18;627:15	497:3
absence (1)	453:7;631:16	age (1)	amendments (1)
440:12	added (1)	526:2	417:10
	430:7	ago (20)	amongst (2)
absolute (1)	additional (6)	455:21;503:2;506:4;508:9,	539:7;621:21
421:16	420:6;448:19;478:20;	17,17;531:18;536:1;547:2;	amount (28)
absolutely (1)	120.0, 170.17, 170.20,	17,17,551.10,550.1,577.2,	

in the Name of Bruce and Glen
427:7;522:1;525:19; 530:10;532:1,2,14;533:7,21, 22;534:19;535:13;540:25; 555:24;556:5;559:25; 563:16;565:6;566:14,17,25; 567:5;582:21;629:15;635:2,
7,21;636:4 amounts (2) 532:15;567:4 analysis (4) 419:3;445:9;453:5;480:22 and/or (1)
450:25 ankle (2) 626:3,11 Annual (1) 537:25 anymore (6) 503:17;506:18;530:21;
563:7;632:10;636:6 anyplace (1) 499:11 apart (4) 549:24;597:12,14;603:12 apologize (6) 445:24;451:10;453:3;
461:1;592:7;612:11 apparent (1) 541:14 apparently (2) 481:6;552:13 appear (4) 436:18;439:20;464:4; 635:13
appearance (2) 439:25;465:12 appeared (1) 494:4 appearing (1) 455:1
appears (2) 435:14;480:17 appendices (1) 498:6 Appendix (2) 498:4,6 Applicants (1) 627:19
applicants' (1) 429:25 Application (11) 415:5;418:1;452:4,14; 468:8;482:9;483:1,7,13; 496:21;497:8
application's (1) 481:25 applied (2) 545:20;565:8 apply (2) 429:18;481:9 applying (1)
581:17 appreciate (8)

1	_
573:17;601:11;611:15;	
617:5,15;618:8,11,13	
approach (1)	
541:18	
approached (1)	
453:1	
appropriate (2)	
453:5;606:20	
approval (1)	
445:11	
approved (5)	
441:14;446:13;452:9;	
481:25;583:9	
approximate (1)	
463:2	
approximately (8)	
430:19;462:20;534:6;	
535:7;536:20;542:25;557:2	٠.
	٠,
574:1	
area (53)	
433:23;446:23;457:15;	
458:12,21;461:24;466:10,	
12;472:19;474:2;484:12,15	;
486:12;487:24;488:21,25;	
489:1,7;493:24;494:7;496:6	5 :
508:6;511:22;522:21;	,
529:19;531:8,15;542:7;	
544:13,24;546:15;547:9,16	
550:15,19;551:22;555:3,8;	,
575:15;580:20;591:4,12;	
593:20;595:2;596:16,19,20	,
22;625:23;637:9,22,24;	
638:12	
areas (8)	
466:3;480:4;532:4,5,22,	
23;542:19;566:25	
around (17)	
447:18;458:13;471:17;	
505:18;508:23;511:22;	
529:19;536:2;545:24;548:3	:
588:25;590:15;596:13;	,
604:20;613:10,11;630:12	
ascertain (4)	
421:21;438:6;439:12;	
465:11	
asleep (1)	
557:8	
aspen (2)	
625:21;626:1	
aspens (8)	
603:18,22,24;604:14;	
606:1,3,8,9	
asserting (1)	
442:17	
assigned (1)	
478:9	
assisted (1)	
497:3	
associated (2)	
446:3;543:8	
Associates (1)	
416:10	
assuming (2)	
T. Control of the Con	

508:13;512:24
attached (2)
428:13;520:20
attention (1)
608:15
attorney (3)
514:6;524:19;525:1
attorney's (1)
450:25
attributed (3)
456:20;465:3;489:23
atypical (1)
466:7
audio (2)
415:1;639:21
August (2)
479:1;569:24
authored (2)
450:11,12
authorization (1)
483:2
authorize (1)
483:13
authorized (5)
446:2,8;482:18;498:22;
499:23
available (1)
452:5
Avenue (1)
416:5
average (2)
466:12;571:17
avid (1)
511:25
aware (5)
442:4;511:7,15;539:11;
544:17
away (4)
484:19;508:17;571:15;
634:8
awhile (1)
590:5
Ayers (1) 504:12
304:12 A-y-e-r-s (2)
504:13,15
504.15,15
В
· ·

back (71)
415:4;420:6;422:14;
426:7;440:24;450:21;
459:25;461:12,23;462:10;
468:11;471:19;485:24;
493:4;495:16;499:9;500:16,
25;501:1;511:4;515:25;
517:24;521:10;543:12;
544:6;546:13;552:7,9;553:1
20,23;556:1;557:7,9,12;
563:8,11;566:1;569:24;
573:20;581:15;588:25;
590:15;591:8,9;595:25;
598:19;599:10;600:13;

```
601:13,17,21,25;602:12;
  603:5,9;608:2;609:13,22,23;
  610:4,6,13,17;615:17;
  618:18;619:3,4,5,23;624:23
backflow (1)
  416:25
background (3)
  419:14;543:15;560:14
backhoe (1)
  522:13
backing (1)
  562:21
bad (6)
  510:12;512:9;513:15;
  563:22;615:13;618:21
ball (4)
  535:5;597:13;630:24,25
band (1)
  496:8
banded (1)
  424:8
bank (9)
  419:23;420:4;439:25;
  470:10;475:19,20;477:14;
  598:10;614:16
banks (1)
  465:12
bar (1)
  512:4
bare (1)
  423:3
based (21)
  418:2;422:11;436:19;
  440:21,22,23;445:1;446:25;
  471:3;479:18;485:14;487:5;
  491:11;500:11;511:18;
  533:23;534:10;539:16;
  570:12;576:11;633:10
baseline (1)
  427:15
basically (25)
  505:25;530:19;538:21;
  540:12,21;544:17;545:21;
  547:5,23;549:11;552:7;
  554:8;555:11;558:10,16;
  559:9,12;561:15;577:1;
  579:17;587:21,22;588:9;
  594:8;599:8
Basin (2)
  416:21;462:16
basis (1)
  451:9
bear (1)
  594:18
bearing (1)
  427:18
become (4)
  418:14;446:8;617:18;
  619:8
becomes (2)
  477:18;605:16
bed (3)
```

434:25;486:8;523:8

begin (4)	440:8	bought (8)	brother (1)
425:3;438:2;501:10;542:4	bisecting (1)	520:15,16,18;521:17;	526:25
Beginning (7)	474:2	523:18;525:13;572:10;	brother-in-law (1)
415:1;444:2;449:6;	bit (29)	610:23	526:25
570:18;571:15;592:9,9	435:8;436:22,24;437:11;	boulders (1)	brought (16)
begins (3)	461:22;485:11;490:21;	533:11	440:10;444:14;467:7;
419:13;480:13;482:8	498:13;507:5;551:21;	boundaries (1)	503:3;515:5;537:4;564:6;
behalf (6)	552:20,22,24;562:17;578:2;	601:9	573:12;578:3,5,5,7,9,14;
450:5;501:6,24;567:23;	586:7;589:14;601:25;	boundary (3)	601:12;619:13
599:20;623:25	602:11;604:19;606:3;	630:5,14;632:14	Bruce (18)
behind (1)	609:22,23;610:11,12;	box (1)	415:6;506:9;524:19;
* *		452:6	
584:25	624:11;626:2;629:22;631:25		570:1;608:6,10;609:16,25,
believes (1)	black (1)	boxes (2)	25;610:17;614:12;617:17;
428:19	433:2	435:8;461:25	618:2,11;619:25;620:1,14;
belong (1)	blame (1)	boy (1)	622:6
579:1	451:21	620:23	Bruce's (6)
belongs (1)	blaming (1)	brackets (1)	605:5;609:4;610:4;
451:21	537:10	465:25	617:19;618:17;619:21
below (33)	BLM (6)	branched (2)	brush (7)
420:7;433:15;440:25;	556:17;557:1;559:17;	523:1,5	420:5;472:2,7;550:10;
458:4;478:13;479:5;486:13;	602:14;603:15;614:23	branches (3)	588:1;591:3;596:16
506:25;523:3,4;535:12,21,	block (2)	577:12,14;596:18	Bryce (18)
22;536:16;544:4,4,5;546:24;	558:4;584:19	break (4)	415:11,13;416:3,5;417:16;
549:1;565:20;579:19;582:5;	blocked (9)	480:13;500:22;567:16;	428:3;450:21;455:6;459:7,
583:2,3,14;598:12;603:1;	421:23;470:2,4,8;561:22;	600:6	13;462:17;464:24;468:7;
605:5;610:13;611:17;	562:11,25;581:2;586:17	breaking (2)	490:3;547:10;628:7;635:21
625:23;632:18,20	blocking (5)	577:12,14	637:17
benchmark (1)	547:7;553:25;558:20;	briars (2)	Bryce's (1)
633:22	559:15;561:4	541:7,7	628:11
bending (1)	blocks (3)	bridge (3)	bubbler (2)
577:11	419:24;434:23;459:14	547:1;573:2,5	555:10,14
benefited (1)	blue (5)	brief (1)	budget (1)
615:4	433:12;437:6;461:15;	432:25	438:7
benefiting (1)	496:10;498:5	briefly (2)	build (2)
614:16	board (2)	431:12;438:4	534:14;620:18
berm (5)	509:22;615:18	bring (2)	building (3)
421:23;434:22,22;591:2,	boggy (1)	568:22;603:9	<u> </u>
12	606:8	bringing (3)	527:1,1;550:3 built (4)
besides (3)	Bohan (6)	459:25;616:9;629:22	527:3;531:20,21;547:1
554:1;561:17;576:23	436:14;438:18;493:13;	brings (2)	bull (3)
best (2)	494:2,8;495:12	461:12;608:14	472:14,25;547:11
488:5;554:22	Bohannan (5)	broad (1)	bumpy (1)
bet (2)	436:16;478:22;480:11;	490:17	485:11
449:8;615:2	486:13,17	broken (1)	bunch (3)
better (9)	book (3)	434:3	567:2;592:13;636:1
442:23;454:13;485:10;	500:19,20;565:16	Bromley (72)	burning (1)
512:10;519:21,22;542:3;	boots (3)	414:5,15,18;417:13;	618:15
600:3;604:5	434:17;575:17;576:8	426:15;427:17;432:1,7;	busy (1)
beyond (2)	Borstelman (2)	441:4;444:1,15;445:20;	522:11
447:10;483:11	431:22,23	447:12,13,16,25;448:9,17,	button (1)
Big (29)	both (13)	20,23;449:19,23,24;450:2,5;	484:6
441:10;462:9,15,15;464:5,	417:6;422:3;448:14;	454:16;457:5,13;459:10,12;	buy (1)
14,17,22;466:23;467:4,11;	491:22;504:9;510:13;532:4;	461:6;462:24;463:5,8;	520:11
476:10;486:19;497:21;	563:3;582:9;604:16;606:6;	467:23;468:13;473:20;	Bye (1)
531:25;534:16;546:24;	616:25;618:14	500:19,21;505:17,19,20,23;	635:16
589:9;604:22;616:6,8,13,14;	bother (1)	507:21;516:17,20;517:7,10;	bypass (2)
617:3;622:25;625:6,10;	507:13	524:11,14,17,18;527:16;	463:7;577:17
626:7,8	bottom (17)	567:16,18,22,23;580:8;	bypassing (1)
bigger (1)	435:23;439:13;483:24;	612:9,12,15,20;623:18,20,	470:4
547:20	540:9;541:4;549:10;573:8;	24,25;626:25;628:4;629:5;	
biggest (2)	576:3;581:21;584:21;	631:18;632:25;639:20	C
465:20;622:2	590:21;607:6;613:6;619:1;	Bromley's (2)	
binder (1)	629:23;636:2,4	427:11;445:18	cabin (5)

531:19,20;535:21,22;	25;559:4,11;560:7,13,15,20;	caveat (1)	458:2
541:3	561:5;563:23;570:12;	499:9	channels (21)
Cal (12)	571:10;576:16;583:14,16;	Cefalo (8)	418:16;423:17;436:6,9;
459:18;463:20;490:19,23;	585:18;586:11;589:13;	426:15;444:1;484:9;	475:24,25;477:18;480:5,16
491:1;492:6;499:24,25;	592:16;595:4;596:21,22;	512:7;538:15;607:17;621:6;	20;493:24;494:5;506:14;
506:18;523:7;577:5;579:22	597:5,6,6;601:2,3;602:10;	625:24	557:10;604:17;630:12,14;
calculated (5)	607:8;609:22;612:4;613:17;	center (4)	634:4;637:9,16;638:4
426:10;430:19;465:14;	615:5;616:18,21;617:1;	435:8;456:21;495:17;	channel's (1)
466:8;471:1	621:14,14;626:6;628:16;	552:8	502:21
calculating (1)	631:16;637:23	certain (3)	character (1)
465:6	canal (1)	445:12;500:4;525:19	479:19
calculation (2)	416:20	certainly (4)	characterization (1)
471:4,10	Candice (2)	457:24,25;469:18;628:16	440:19
calculations (2)	516:17;517:3	cfs (6)	charge (1)
439:18;471:6	canvas (2)	427:6;430:19;499:23;	507:11
calendar (2)	558:11;560:15	500:2;566:2;581:24	check (3)
568:13,18	canyon (2)	chainage (1)	516:20;611:7,14
call (31)	474:13;594:24	630:10	checked (3)
415:10,11;435:11;446:4,5,	capacities (1)	chainsaw (1)	452:6;503:8;515:11
9;457:16;462:3,12;463:6;	423:19	532:10	chemigation (2)
481:22;502:18;513:20;	capacity (11)	chance (4)	416:25,25
520:2;528:12;547:13;	418:17;426:10,13;430:13,	470:6;496:19;505:17;	chest (4)
555:10,15;556:1,2;564:22,	18;465:1,7,14;471:1,4,7	630:8	541:5,9;577:10;590:20
23;582:25;583:12,16,16;	capture (1)	change (7)	choked (4)
599:24;610:6;617:8,8,10	438:19	420:12,13;458:22;459:2;	473:8,11,13,14
called (25)	captured (4)	489:22;567:1;584:12	Chris (5)
415:14;419:25;431:17;	438:16,17;598:16;599:6	changed (3)	417:12;450:5;524:18;
432:15;435:3;436:14,16;	captures (2)	552:4;596:22;608:4	567:23;623:25
441:16;451:23;452:10;	436:3;461:19	changes (1)	Cindy (7)
460:11;487:12;502:2,17,18;	capturing (1)	489:17	440:8;479:11,14;549:8;
507:7,7;518:13;525:14,16;	547:24	changing (3)	569:24;619:12;621:7
528:16;531:16;600:20;	car (1)	467:18;512:5;566:4	Cindy's (1)
610:6;627:18	486:1	channel (144)	554:17
calling (2)	care (2)	419:25;421:24;426:6;	circle (3)
501:15;507:18	507:11;570:4	433:8,10,15,18;434:4,5,14;	505:17;610:9;616:14
calls (2)	career (1)	435:1,14,21,24;436:9;	circled (1)
501:13;564:22	421:2	438:17;439:4,7;456:16,18,	463:1
came (13)	careers (1)	20,21;458:8;459:14;463:19;	circles (2)
417:24;446:21;469:8;	422:4	465:6,21;469:9;470:20;	461:25;610:9
472:13;501:13;522:8;524:5;	careful (1)	474:13;475:16;476:7,9,9,11,	circling (1)
525:14;557:22;572:14;	466:16	12;477:2,2;478:14,15,23;	440:24
591:7,9;622:9	carefully (3)	480:5,18;482:14,16,21,21; 487:22,22;488:4,6,7,7,9,22;	claim (3) 429:4;442:13;444:21
can (134) 415:2;419:15;422:12,15,	418:1;479:14,17	489:5,7,15;490:1;491:5,13;	
15;423:9;424:20;425:17;	carried (3) 439:6;483:11;599:7	493:15,19;494:3,10,10,10,	claimed (1) 442:24
427:21,22,24;430:6,9;433:6,	carries (1)	12,15,17,20;495:1,5;496:4,	claims (10)
24;444:23;448:25;449:17;	461:20	12,15,17,20,493.1,3,490.4,	416:22;417:10;428:15;
450:14;458:6;463:8;464:23;	carrying (1)	506:24;521:24;522:14,15,24,	441:24;443:7,8,20;453:17;
467:7,8,9;476:2;477:23;	547:21	24;534:23;535:20;536:9,23;	497:3;632:8
482:11;483:18;485:18;	carryover's (1)	539:23;543:13,19;544:24;	clarified (1)
488:15,16,22;493:14;	480:25	545:3,4,7,8,16,16;546:16,17;	604:23
495:11;497:12;501:21;	case (7)	547:17,20,25;548:1,2,18,21;	clarify (1)
502:11;504:4,10;514:1;	518:25;581:17;632:22;	551:19;560:5,5;565:22;	451:17
516:14;517:17;518:3,4,21;	634:19,21,22;639:11	576:22;577:21;582:17;	clarifying (1)
519:9,10,14,15;522:10;	catch (5)	587:21,22;589:5,12,20;	573:16
524:12,21,22,22,23;528:5,	453:13;515:3;547:13;	590:8,9;591:18;592:18,19;	cleaned (2)
25;529:3;530:11;532:11;	588:19;635:2	594:7,11;595:11;599:2;	550:10;596:16
533:2;534:20,20,20,21;	catching (1)	602:23,24;604:21;611:1,2;	cleaned-out (1)
535:4,11,14;540:20,23;	599:2	629:17,24;635:24;636:3,6,	545:6
541:18;542:9;543:14,15;	cattle (4)	16,16;637:23;638:8,8	clear (12)
545:9;548:1,3,5,9;549:18,21,	530:3,4;603:15,16	channeled (1)	430:17;460:25;472:4;
23;550:8,14,25;551:22,24;	cause (2)	523:3	487:1;512:1;514:8;525:8;
552:15,16;555:16;557:7,23,	446:6,10	channelize (1)	548:10;605:4;611:13;619:4

15	coloring (2)	449:6	consistent (8)
clearer (1)	574:22,22	concerns (1)	434:6;474:17,21;486:11;
560:4	combination (2)	604:22	566:25;630:7;631:4;632:6
clearly (3)	439:3;573:5	conclude (2)	constant (1)
548:20;630:13;632:9	combined (1)	445:5,11	459:3
clerical (6)	439:7	concluded (1)	constitutes (1)
442:5;444:5;450:23;	combines (1)	639:17	434:22
451:19;453:4,14	624:13	concludes (1)	construction (1)
clever (1)	coming (31)	516:11	435:22
495:2	439:1;446:1;468:21;	conclusion (3)	consultant (2)
client (1)	474:13;493:20,24;506:22;	479:4;481:17;482:8	416:10;453:18
506:6	533:21,22;535:13;546:21;	Conclusions (1)	consulting (3)
client's (1)	551:7;553:6;558:8;588:22;	481:16	416:11;417:4,6
419:1	595:25;596:19;598:8,10;	condition (9)	contact (1)
close (15)	599:2,3;601:21;602:3;607:2,	418:16;423:9,17;426:2;	540:18
420:3;457:25;472:24;	3;610:1,11,12;616:14;	445:25;468:19,20,23;478:21	contained (4)
473:2;485:19;524:11,22;	620:14;625:6	conditions (3)	418:19;424:16;434:25;
525:1;549:23;588:9;589:5;	comingle (1)	445:12;583:7,10	629:17
603:23;630:18;631:24;	616:4	conduits (1)	context (2)
634:12	comment (1)	424:9	442:14;452:24
closed (7)	620:20	confined (1)	Continental (2)
433:9;475:24;543:23;	comments (1)	480:12	462:6,11
561:13;562:25;639:11,18	634:18	confirm (1)	continue (8)
closer (5)	commingled (1)	514:14	430:4,10;444:1,23;494:25;
519:18;550:14;553:16;	439:11	confirmed (1)	545:10;548:17;618:9
592:8;620:2	commingling (1)	443:1	Continued (4)
close-up (2)	616:25	confirming (1)	414:1;588:14;589:1;
561:20;562:10	common (5)	557:20	591:22
closing (3)	454:22;601:14;608:12;	conflated (1)	continues (4)
578:23,25;579:12	616:13;621:24	452:14	433:16;461:21;491:16;
clump (1)	communicated (1)	conflicted (1)	554:10
476:7	451:13	431:24	continuing (1)
coalesce (2)	communication (1)	conflicting (4)	484:20
coalesce (2) 475:2;480:17	communication (1) 451:7	conflicting (4) 424:18;456:3,12,22	484:20 continuously (1)
coalesce (2) 475:2;480:17 coalesces (1)	communication (1) 451:7 community (3)	conflicting (4) 424:18;456:3,12,22 confluence (33)	484:20 continuously (1) 529:21
coalesce (2) 475:2;480:17 coalesces (1) 436:7	communication (1) 451:7 community (3) 607:10;619:13;621:20	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20;	484:20 continuously (1) 529:21 Contor (22)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24;	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6,
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7;	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8;
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3;	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25;
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23;	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20;
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5,	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14;
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24;	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15 conjunction (1)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15 conjunction (1) 562:4	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15 conjunction (1) 562:4 connect (1)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20,
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15 conjunction (1) 562:4 connect (1) 581:13	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22;	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15 conjunction (1) 562:4 connect (1) 581:13 connected (3)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19;	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1)	conflicting (4) 424:18;456:3,12,22 confluence (33) 437:2;457:21;477:20; 522:18;523:4;533:19,24; 535:18;539:23;540:7; 551:14;553:17;555:3; 557:11;566:8;630:3,4,17,23; 631:1,23;632:10,13;634:4,5, 6,8,12;636:25;637:5,24; 638:5,17 conform (2) 442:23;468:25 confused (2) 456:17;586:6 confusing (2) 548:5;573:15 conjunction (1) 562:4 connect (1) 581:13 connected (3) 516:23;594:5,6	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14 collector (4)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9 compliment (1)	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4) 543:16,17;593:11;629:11
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14 collector (4) 439:10;460:11;461:2,11	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9 compliment (1) 601:10	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4) 543:16,17;593:11;629:11 controls (2)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14 collector (4) 439:10;460:11;461:2,11 color (1)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9 component (1)	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4) 543:16,17;593:11;629:11 controls (2) 543:10;555:13
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14 collector (4) 439:10;460:11;461:2,11 color (1) 575:4	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9 component (1) 601:10 component (1) 461:22	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4) 543:16,17;593:11;629:11 controls (2) 543:10;555:13 converged (1)
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14 collector (4) 439:10;460:11;461:2,11 color (1) 575:4 colorful (4)	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9 compliment (1) 601:10 component (1) 461:22 concerned (1)	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4) 543:16,17;593:11;629:11 controls (2) 543:10;555:13 converged (1) 630:14
coalesce (2) 475:2;480:17 coalesces (1) 436:7 cobbled (1) 486:9 cobbles (2) 486:18,23 cobbling (1) 486:12 cobbly (1) 486:15 Code (1) 451:6 coefficient (1) 465:21 collect (1) 546:25 collecting (1) 559:12 collection (10) 419:19,21,22;439:22; 460:22;471:21;472:19; 473:7,9;547:14 collector (4) 439:10;460:11;461:2,11 color (1) 575:4	communication (1) 451:7 community (3) 607:10;619:13;621:20 companies (1) 416:21 company (2) 416:20,23 comparatively (1) 563:21 Compare (2) 560:3;569:13 compared (1) 494:22 comparison (1) 533:18 completely (2) 419:24;525:25 complex (2) 419:18,20 complexes (1) 419:17 Compliance (1) 620:9 component (1) 601:10 component (1) 461:22	conflicting (4)	484:20 continuously (1) 529:21 Contor (22) 415:11,13,18;416:5;444:6, 10;449:22;450:3;451:8; 454:5,11,22;456:9,25; 457:14;460:21;466:20; 492:15;496:19;500:14; 628:7;631:10 Contor's (1) 451:3 contour (1) 458:24 contours (1) 458:25 contrast (2) 559:4,6 control (8) 435:10,17;492:2,6;534:20, 20;535:16;558:12 controllable (1) 620:9 controlling (4) 543:16,17;593:11;629:11 controls (2) 543:10;555:13 converged (1)

convey (3)
483:5;505:4,5
conveyance (1)
439:3 conveys (3)
424:16;487:23;488:9
convincing (1)
479:24
coordinates (1)
424:23
copy (3)
420:18;452:13;639:13 corner (3)
432:21;633:8,18
corrals (2)
606:22;615:13
corrected (1)
499:13
correcting (1) 454:1
correction (7)
450:23;451:15,20;453:5,
15;499:15;538:6
correctly (7)
453:1;477:19;492:3;
493:6;501:2;540:22;564:9
corresponds (1)
462:22 counsel (2)
451:7,13
country (2)
601:15;603:4
couple (14)
422:12;435:10;488:14;
490:7;535:9;563:23;577:25; 613:15;614:14;618:10;
621:17;624:16,18,19
course (9)
420:23;421:1;471:25;
484:20;498:9;540:6;541:14;
545:16;599:20
court (2)
632:24;634:21
cover (2) 497:23;624:25
covered (2)
429:24;625:3
covering (1)
571:22
covers (2)
533:7;619:22
cow (4) 472:25;547:6,9;593:11
cows (3)
472:10;593:12;613:14
create (2)
483:10;634:16
created (1)
632:5 Creak (204)
Creek (204) 418:14;419:25;420:1;
421:24;422:25;423:1,5;
429:20;430:1;434:25;436:9,

da McConnell
21,21;437:2,2;438:15;439:1 4;441:18;443:13;446:21,21 459:14,21;463:19;464:5,7, 20;467:1,16;468:22;469:8,8 474:12,23;475:17;476:12,15 15;477:2,2,21,21;478:5,15, 15,23;479:4,5;480:4,20; 481:10,23;482:20;487:3,9, 23;488:17,18;491:14; 497:10,11,22;498:16,16,21; 499:3,21,21,23;506:17; 509:11;512:19;514:14; 520:7,8;521:6;522:15,16,17 20,20,25,25;523:5,8;527:9, 12;530:16,18,24,24,25; 531:7,9,14,16;532:22; 533:17,23;534:1,4,4,5,7,23; 535:11;536:10,11;539:23, 24;540:6,7;544:1;546:10; 549:13;550:6,22;551:6,18, 24;552:6;553:17,18,22; 554:2;555:5;557:11,11; 558:2;561:12;565:1,10; 566:15;567:6;577:6;578:18 581:14,15;582:13,13,15; 583:1,1,12,13;584:12,12,20 22,23,24,25;585:4;592:1,22 23;594:5,6;596:6;597:15; 598:3,11;602:4;603:13,14; 605:2,2,2,2;607:3;609:15,21 610:25;612:23;613:6,23; 616:12,19,21;617:1;619:2,3 9,13,15,16,16,16,18;620:5; 622:22,23;623:4;624:4; 628:14;630:3,4;632:17,18, 19,24;637:16;638:7 creeks (6) 459:5;477:13;522:18; 523:2;584:14;603:21
Creek's (2) 533:18;626:6
crisscross (1)
493:2
criteria (1) 488:14
crooks (1) 622:2
cross (8) 447:18;448:1,4;449:18; 549:11;605:1,7;626:5
crossed (6) 426:1;496:15,16;604:21, 24;605:3
crosses (2)
488:23;547:22 Cross-Examination (21)
414:5,6,7,15,19,20;449:18;
450:1;468:5;505:22;511:1;
514:4;519:1;524:16;567:21

580:15;585:16;599:21;

623:23;633:3;636:22

426:2;484:16;547:2;

crossing (5)

```
592:12;593:21
  crossings (1)
     592:4
  cross-section (5)
3;
     426:4:441:5:466:6.10.11
  cross-sections (1)
     466:15
  culvert (13)
     456:19;458:3,6,11;550:15;
     555:3;573:2;592:4;593:4;
     596:8;597:7,17;637:4
  culverts (29)
     455:20,22;456:1;457:22;
     458:1,4,14;549:1,25;550:11;
     551:15;555:8;573:1,5,10,14;
     574:2,23;576:14,25;592:4;
     593:4,6;602:5,14;603:11;
     632:3,7;637:1
   curious (5)
     450:24;456:7,11;506:1;
     572:1
   current (4)
     431:3;475:10,12;499:15
  currently (6)
     446:17;467:7;474:24;
     475:3,17;499:5
  cursory (1)
     497:6
   curtailed (4)
     418:13;446:10,12;481:24
   curtailment (2)
     446:6;481:9
  curve (1)
     590:7
  curved (1)
     461:19
  cut (5)
     436:6;480:16;489:21;
     532:10,12
   cutting (3)
     489:13,16,17
                D
  D1 (11)
     592:18;593:5,6;594:12,13,
     22;595:10;597:15;604:6,9;
     625:23
   D2 (19)
     593:7,16,21;594:2,11,22;
     595:2,6,9,14,15,17;596:21,
     23;604:6,9,10;605:9;625:23
  D3 (16)
     592:23;593:4,5,6;594:14;
     595:2,6,13;596:6,21,23;
     604:6,9,11;605:9;625:23
   dab (1)
```

```
434:22;547:5;552:10;
  553:25;554:1,3,6;558:4,6,8,
  9,11,18;560:15;584:19;
  586:13,16;613:21,23,25
dammed (1)
  604:19
dancing (1)
  510:3
dare (1)
  434:18
dark (1)
  591:3
darn (1)
  613:16
dashed (3)
  433:20;588:12,13
data (1)
  420:22
Dataset (2)
  422:23,25
date (2)
  565:14;576:15
dates (4)
  450:11,15,18;478:9
Dave (2)
  596:6;638:14
DAVID (27)
  414:4;515:5;517:17,21,25;
  518:6,12,13;519:9;520:1,2,4;
  521:13;528:12,13,13,15,16;
  529:5;537:2;539:22;541:21;
  550:16,19;551:23;556:9;
  635:24
Day (28)
  415:5;431:8;432:10;438:8,
  11;449:6;537:7;541:11;
  542:19;543:1;546:6;548:24;
  555:17;563:8,10;566:1,2;
  568:2,4;569:4,5,7,11;571:14;
  620:16,23;627:15,23
days (20)
  421:18:503:14:509:18:
  510:18,19,20;512:13;513:17,
  18,19;540:13;554:24;564:1,
  1;571:2;607:1;624:17,18,19;
  639:12
day-to-day (1)
  505:11
dead (6)
  472:10,25,25;547:6,9,11
dead-end (1)
  546:22
deal (1)
  621:7
dealing (1)
  449:10
decide (2)
  429:19;609:17
decision (2)
  426:17;447:4
decisions (1)
  464:3
decree (11)
```

624:13 **dad (9)**

626:23.24

dam (20)

508:7,17;517:15;535:25;

572:11;609:8;620:24;

442:18.24:452:20:453:23. 433:11:630:13 629:20;633:21;635:23;638:8 displayed (1) differentiate (1) 25;454:1,6;455:4;477:24; depicting (2) 637:19 478:3.7 558:1;589:5 532:21 difficult (1) decreed (6) depicts (2) 428:5;429:9;449:10; 433:5;588:11 533:15 452:22:469:4:525:20 depression (3) difficulty (2) deeded (1) 434:24;476:2,8 528:3,4 611:8 depriving (1) diffuse (9) deemed (1) 438:17;439:9;488:21,25; 420:14 422:20 depth (1) 546:15;547:9,16;629:20; deep (9) 426:5 636:5 434:16,17;531:11,24; derived (1) diffused (1) 544:9,10;545:15;559:7; 471:9 488:24 590:19 describe (13) diffuses (2) 469:2 deeper (2) 416:17;418:8,16;419:15; 544:12;635:22 545:13;560:5 423:16;425:17,24;431:15; dig (5) 434:15;438:4;473:6;534:9; 550:5,10;608:6,9;614:24 deepest (1) 545:10 585:19 digging (1) deficiency (1) described (3) 576:12 429:2;452:22;453:2 digital (2) 483:15 defined (7) describes (1) 420:21;441:2 435:21;476:8;494:10,12; 451:4 dimensions (1) 551:18;552:5;590:5 describing (4) 484:17 definite (3) 429:4,5;459:1;465:21 dipped (1) 545:12;552:5;603:20 description (4) 456:18 **Definitely (6)** 431:10;488:5;574:4; **DIRE** (1) 532:24;549:6;552:8; 615:17 428:1 595:4;603:12;632:1 descriptions (1) Direct (9) definition (2) 574:7 414:13,18;416:1;430:15; 442:3,6 designed (1) 502:14;519:7;529:1;601:6; delayed (1) 572:4 628:3 620:10 determination (3) direction (9) deliver (2) 478:2.3.8 441:12:458:3.4:461:17: 446:9:509:4 determinations (1) 467:2;472:3;474:18,24; delivered (4) 470:25 588:15 directions (1) 420:13;441:8;481:19; determine (4) 466:17;470:11;512:18; 483:8 438:13 deliveries (1) 555:18 directly (2) detriment (1) 474:13;591:23 430:1 delivers (1) 446:14 dirt (7) development (2) 470:8,10;558:11;561:4; 509:8 delivery (4) 440:13:442:19 584:9,19;615:11 427:4;431:4;483:2;508:15 device (13) disagreeing (1) 636:13 **DEM** (1) 428:4;432:14;535:3; 495:22 536:15,17;553:16;555:11, disagreement (1) demand (2) 21;556:9,14,16,21,22 638:6 430:6;564:18 devices (6) disappears (1) demarked (1) 435:11;472:6,7;544:15; 463:21 548:20 555:3,7 discharge (1) 438:25 Department (17) dialed (1) 417:1,3;422:3;425:5; 525:10 discomfort (2) 428:12,22,25;429:3,8,12; diamonds (3) 445:18,21 442:7;454:4;468:8;469:4; 455:11:573:23:575:6 discuss (2) 478:25;511:4;537:14 Dick (1) 423:12;478:17 depend (2) 521:12 discussed (1) 476:19,20 died (1) 478:19 depending (1) 604:14 discussing (3) 633:21 difference (6) 468:9;473:19;482:19 depends (1) 458:9;511:10,12;532:25; discussion (8) 571:11 559:7;637:18 469:6;473:17;537:1;539:6, depict (1) different (10) 9;629:19;632:2;637:21 433:3 431:18:466:8:537:6: discussions (1) depicted (2) 544:18;548:23;592:13; 442:22

	491:17;496:10;587:11	drilling (1)	475:1,4;476:15,18;496:4,9,
609:4,7,9,11,12,25;610:1,2, 4;611:9;613:3,17,18;614:1,7,	dots (8)	468:14	10;514:10;573:23;592:19;
16,19,20,24;615:5;616:12,	433:25;435:10;459:19;	drive (2)	599:8
13,15,16;617:19;618:18,20;	485:19;573:23;574:10;	563:10;637:25	eastern (2)
619:21;620:16;622:19	575:7,9	driving (3)	461:22;493:16
ditches (18)	down (175)	485:9,17;563:9	easternmost (2)
439:23;454:11;459:24;	433:16;435:1,15,20;	drop (1)	475:25;494:17
460:5,10;461:21;482:14;	438:15;439:1;446:20,23;	566:12	eastmost (2)
483:11;509:4;521:1;548:2;	451:10;457:14,21;458:15,	dropping (1)	456:16,19
553:18;559:23;569:21;	22;459:6,24;465:23;466:15;	516:18	east-west (3)
571:6;572:7;581:6;612:5	468:21;469:8;477:20;	drops (2)	455:19;461:19;605:8
diversion (89)	482:15;483:24;484:12,14;	492:16;587:21	easy (3)
420:22;424:6,15,16;425:1;	490:1;491:1;492:10;494:25;	drought (4)	534:21;536:3,12
428:5,17,23,25;429:5,16,20;	502:20,21,22,23,25;503:13;	510:13,15,16,17	edge (1)
430:7;444:12;445:7;446:5;	506:10,22,23,24,25;507:4;	drove (2)	553:23
449:11;452:21;453:7,19,24;	523:6;527:12;533:3;535:17;	425:25;455:13	effect (2)
454:23;455:3;459:21;	536:12,18;538:23,25;	drown (1)	437:17;439:12
461:14;469:3;472:24;473:2;	540:16;541:2,4,8,9;542:14,	590:22	effective (2)
479:5;483:2;485:10;487:21;	20,22;544:7,11,19;545:7;		604:6;617:18
		drug (1) 536:4	
488:10;491:4;498:23;503:9;	546:9;547:22;548:4;549:1;		effort (3)
506:21;511:6,8,15,18,20;	551:20;552:2,3,3,6,20;	drum (1)	443:3;453:20;577:22
513:1,4;515:11;534:3,5,9;	553:13;554:10,19;557:11;	539:2	Eight (25)
539:8,12,15,18;542:21;	558:22;559:12;561:7;562:3,	dry (5)	441:10;462:9,15;464:6,14,
551:11;557:3;559:1,3;	12,15,17,22;564:3,9;565:20;	494:25;495:4;566:13;	17,22;466:23,25;467:4,11;
564:18;565:2;579:20;	572:7;573:6;574:24;576:2,	590:8;637:24	476:10;497:21,21;522:6;
580:20;581:11;583:2,3;	22;577:7,12,13;578:17;	dug (11)	616:6,8,13,14;617:3;619:18
584:3;587:11;605:6;610:18;	580:19;581:4,5,8,12,13;	522:13,24,25;527:7;	620:5,21;625:7,10
611:5,6;613:21,25;615:15,	582:5,9;583:14,17;584:20;	546:24;547:22;550:3;	eighth (2)
19,21,25;617:20;620:3,8,15,	588:8,10;589:1;595:3,3;	560:21;598:12,19;608:6	480:15;571:14
22;621:3;624:4;625:12,15;	596:14;598:3,8,10,23;599:2,	duly (6)	either (11)
626:17;629:12;632:18,20	4,5;602:17,22;603:2,6,7,9,9,	415:15;502:3;518:14;	431:19;437:17;447:10;
diversions (6)	17,19,22;604:13,19;605:3,5,	528:17;600:21;627:19	463:1;474:24,25;477:13,14
425:14;443:13;455:1;	11,14,16,19,22;606:3,6,22;	dumps (1)	536:15;597:14;607:14
515:13;578:17;622:25	607:5,8,14;610:1,2,2,5,11,12,	553:22	elected (1)
divert (3)	13,25;611:5,6;613:6;614:13;	During (10)	618:4
		416:20;431:7;466:20;	electronic (1)
446:3:616:3.11	615:6.25:616:2.9.16:618:18:	410:20:451:7:400:20:	electronic (1)
446:3;616:3,11 diverted (10)	615:6,25;616:2,9,16;618:18; 620:14.16:622:9.22.25:		
diverted (10)	620:14,16;622:9,22,25;	476:21;500:4;522:3;523:21;	420:21
diverted (10) 441:8;461:14;467:2,5,7;	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14	420:21 elevation (16)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16;	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2)	420:21 elevation (16) 420:21;441:3;458:22;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15;	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9,	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10;	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17;	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19;	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10;	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31)
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15 done (10)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19 drawn (2)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17 east (35)	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31) 434:18;448:11;459:20;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15 done (10) 448:6,13,13,21;504:25;	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19 drawn (2) 437:18;549:4	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17 east (35) 418:11;419:18;420:7;	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31) 434:18;448:11;459:20; 472:4;490:13;493:1;501:3;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15 done (10) 448:6,13,13,21;504:25; 524:5;550:8,11;576:15;	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19 drawn (2) 437:18;549:4 dried (1)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17 east (35) 418:11;419:18;420:7; 434:20;435:8;440:3,13,14;	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31) 434:18;448:11;459:20; 472:4;490:13;493:1;501:3; 503:1;509:25;512:23;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15 done (10) 448:6,13,13,21;504:25; 524:5;550:8,11;576:15; 618:8	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19 drawn (2) 437:18;549:4 dried (1) 623:15	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17 east (35) 418:11;419:18;420:7; 434:20;435:8;440:3,13,14; 441:15,16;460:11,18;461:12,	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31) 434:18;448:11;459:20; 472:4;490:13;493:1;501:3; 503:1;509:25;512:23; 568:13,18;569:6;573:6;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15 done (10) 448:6,13,13,21;504:25; 524:5;550:8,11;576:15; 618:8 Dot (8)	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19 drawn (2) 437:18;549:4 dried (1) 623:15 drilled (1)	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17 east (35) 418:11;419:18;420:7; 434:20;435:8;440:3,13,14; 441:15,16;460:11,18;461:12, 20;462:9,14;464:16;466:21,	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31) 434:18;448:11;459:20; 472:4;490:13;493:1;501:3; 503:1;509:25;512:23; 568:13,18;569:6;573:6; 574:24,25;579:19;581:11;
diverted (10) 441:8;461:14;467:2,5,7; 491:13;614:5;625:13,16; 629:9 diverting (2) 487:25;561:22 Divide (15) 462:6,11;463:9,9,15; 464:10,12;473:24;474:8,9, 14,21;477:18;491:24;492:1 division (2) 464:2;620:2 document (6) 428:18;439:17;452:17; 453:2;471:15;555:25 documentation (1) 429:11 documented (2) 431:15;540:3 domestic (1) 569:15 done (10) 448:6,13,13,21;504:25; 524:5;550:8,11;576:15; 618:8	620:14,16;622:9,22,25; 623:1;626:3,6,11;629:18,21; 635:24;636:11;638:4 downgradient (1) 467:4 downhill (5) 434:21;459:2;509:19; 512:12;559:9 downstream (23) 419:23;433:8;438:15,22; 458:7;534:18;535:4,5; 536:18;542:24;545:21; 546:10;551:9;555:20; 565:23;566:7;575:13;579:8; 581:18;585:20;615:8; 629:18;635:21 drainage (16) 420:7;430:1;435:15; 441:18;464:6,7,17,22; 467:12;468:21;476:10; 511:24;530:24,24,25;625:19 drawn (2) 437:18;549:4 dried (1) 623:15	476:21;500:4;522:3;523:21; 540:11;541:15;623:14 dying (2) 603:24;604:15 E earlier (7) 494:1;547:11;564:10; 586:8;591:25;612:8;613:2 early (2) 526:15;564:15 earnest (1) 520:25 earth (5) 421:10;475:19,20;549:19; 595:4 earthen (3) 434:22,22;558:9 easiest (1) 445:17 east (35) 418:11;419:18;420:7; 434:20;435:8;440:3,13,14; 441:15,16;460:11,18;461:12,	420:21 elevation (16) 420:21;441:3;458:22; 477:3;494:17;584:12; 630:23;633:11,12,15,24; 634:1,7;637:15,18;638:3 elevations (1) 458:20 else (15) 429:8;440:25;481:9; 500:12;513:24;524:9; 546:21;576:19;577:15; 596:17;618:22;620:21; 621:15;632:11;639:8 e-mail (2) 440:8,11 e-mailed (2) 452:13;639:14 employment (1) 416:18 end (31) 434:18;448:11;459:20; 472:4;490:13;493:1;501:3; 503:1;509:25;512:23; 568:13,18;569:6;573:6;

Min-U-Script®

598:13;604:16;605:15,16,	especially (2)	415:10;444:18;479:24;	438:18
19;609:11,24;634:19;639:2,	490:18;612:22	480:20;499:18;501:3,8,17,	expanded (1)
21	essentially (2)	19;516:12;535:8;541:25;	483:21
ended (1)	419:23;441:25	596:11;632:9,12;639:3	expect (3)
485:11	established (1)	exact (7)	484:7;507:15;633:9
ends (5)	444:20	425:6;442:15;531:12;	experience (10)
463:20,25;464:21,21;	estimate (1)	536:19;570:25;574:6;576:15	416:18;421:7;422:8;
495:5	466:1	exactly (11)	425:15;448:9;454:22;458:3;
engineer (4)	estimated (1)	427:11;454:25;473:5;	509:10;510:15;633:10
421:5;437:20,22;551:12	439:19	513:14;520:24;522:1;542:2;	experienced (1)
engineer's (12)	estimating (1)	557:5;595:20;630:6;638:17	533:12
420:19,24;426:9;436:16;	556:24	Examination (16)	expert (6)
437:19;441:6;462:18;	eTrex (3)	414:8,9,14,18;416:1;	417:12;418:2,22;448:7;
473:18;487:5;574:19;631:8, 22	432:16,16,16	428:1;430:15;490:10;	568:21;628:7
enhancement (1)	evaluate (4) 418:11,15;441:25;474:11	503:21;508:1;519:7;529:1; 587:3;596:3;604:1;628:3	expertise (1) 442:16
458:8	evaluated (1)	examine (2)	experts (1)
enjoyment (4)	497:5	420:2;434:10	531:3
420:15;446:15;481:18;	evaluating (1)	example (3)	explain (4)
483:9	458:16	422:22;454:24,25	482:11;513:13;542:2;
enlarge (1)	evaluation (3)	examples (1)	557:12
551:21	427:16;430:18;443:11	422:13	explained (1)
enough (19)	evaluations (1)	exceed (1)	468:10
422:20;436:5;437:4;	495:23	500:1	explaining (1)
438:15,16;470:16;497:9;	Even (32)	exceeds (1)	444:4
511:22;513:10;524:12;	436:23,25;437:1;468:9;	499:23	explanation (2)
525:2;532:11;563:5;565:21,	469:3;486:13;497:21;505:2;	except (3)	468:23;469:7
24;566:1;610:5,9;635:9	510:13,17;512:15;523:13;	503:10;506:10;554:2	exploration (1)
entering (1)	532:9;533:14;548:24;549:8;	excess (1)	485:25
470:10	550:9;554:17;563:18;564:4,	583:16	explore (1)
enters (2)	21;569:23;571:12,15;	excuse (7)	479:6
479:5;482:16	576:13;581:21,21;583:1;	535:23;537:18;538:2;	expressed (1)
entertain (1)	590:22;591:7;594:16;637:16	549:12;552:21;553:2;590:4	449:3
426:18	evening (1)	Exhibit (66)	extend (2)
entire (9)	415:8	418:19;419:3,6;422:6;	605:8,9
433:25;436:3;444:3,6;	event (1)	425:8;432:2,5,7;440:4,7,8;	extended (1)
468:17;481:7;484:23;540:6,	476:24	441:21;450:16;454:10;	430:24
8	events (1)	455:6;457:17,20;459:8;	extends (1)
entirely (1)	476:22	462:17;464:25;466:21;	638:4
623:15	eventually (3)	471:19;474:5;477:23,24;	extent (2)
entitled (1)	433:16;436:7;480:17	478:24;480:21;481:15;	437:1;499:2
566:7	Everson (42)	483:18;486:3;487:2,16;	extra (2)
Environmental (1)	509:13,15,16;511:24;	497:17;500:19;541:22;	536:4;582:19
416:10 era (3)	512:19,21;514:14;520:7; 521:6;522:16,20,25;523:5;	543:6;544:3,4;545:18; 551:12;557:9,25;558:14,15;	eyes (2) 453:12;474:10
521:11;565:9,10	530:16,24;531:7,9,9;532:2,	560:11,18,23;561:8,19;	433.12,474.10
Ericsson (4)	22;533:1,17,23;534:1,3,5,23;	562:8,19;568:20;573:18;	F
514:20,22;542:18;639:6	535:11,19;549:12;565:1;	574:14;575:4;577:3;586:1;	1
Ericssons (2)	566:8,18,22;567:3,6;581:15;	587:6;592:2,6;596:5;612:14,	face (2)
512:22,25	582:5;619:2,7,7,11	15;624:3;628:12;630:1	467:17,19
Ericssons' (4)	everybody (14)	Exhibits (8)	facing (1)
502:21,22,23;506:25	503:9;506:9;507:4;511:5;	447:7;448:11;449:14,16;	433:8
erosion (2)	512:20;515:11;525:6;537:5;	450:7;516:8;541:22;583:23	fact (16)
435:22;438:18			
	542:3;581:19;601:17;	exist (1)	421:10;434:3;437:18;
erosional (1)	542:3;581:19;601:17; 618:22;621:25;622:4		421:10;434:3;437:18; 442:12;449:9;477:1;491:21;
436:6	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4)	exist (1) 444:12 existed (4)	
436:6 erroneously (1)	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4) 565:7;573:14;603:7;605:4	exist (1) 444:12 existed (4) 423:17;442:24;452:23;	442:12;449:9;477:1;491:21; 520:9;534:14;543:14; 554:16;555:23;566:13;
436:6 erroneously (1) 453:3	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4) 565:7;573:14;603:7;605:4 everyone (1)	exist (1) 444:12 existed (4) 423:17;442:24;452:23; 468:16	442:12;449:9;477:1;491:21; 520:9;534:14;543:14; 554:16;555:23;566:13; 597:5;637:8,15
436:6 erroneously (1) 453:3 error (7)	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4) 565:7;573:14;603:7;605:4 everyone (1) 636:8	exist (1) 444:12 existed (4) 423:17;442:24;452:23; 468:16 existence (2)	442:12;449:9;477:1;491:21; 520:9;534:14;543:14; 554:16;555:23;566:13; 597:5;637:8,15 factors (1)
436:6 erroneously (1) 453:3 error (7) 444:6;450:23;451:11,14,	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4) 565:7;573:14;603:7;605:4 everyone (1) 636:8 everywhere (5)	exist (1) 444:12 existed (4) 423:17;442:24;452:23; 468:16 existence (2) 444:19;468:22	442:12;449:9;477:1;491:21; 520:9;534:14;543:14; 554:16;555:23;566:13; 597:5;637:8,15 factors (1) 489:24
436:6 erroneously (1) 453:3 error (7) 444:6;450:23;451:11,14, 19;453:4,14	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4) 565:7;573:14;603:7;605:4 everyone (1) 636:8 everywhere (5) 506:15;507:1;540:16;	exist (1) 444:12 existed (4) 423:17;442:24;452:23; 468:16 existence (2) 444:19;468:22 existing (2)	442:12;449:9;477:1;491:21; 520:9;534:14;543:14; 554:16;555:23;566:13; 597:5;637:8,15 factors (1) 489:24 fail (1)
436:6 erroneously (1) 453:3 error (7) 444:6;450:23;451:11,14,	542:3;581:19;601:17; 618:22;621:25;622:4 everybody's (4) 565:7;573:14;603:7;605:4 everyone (1) 636:8 everywhere (5)	exist (1) 444:12 existed (4) 423:17;442:24;452:23; 468:16 existence (2) 444:19;468:22	442:12;449:9;477:1;491:21; 520:9;534:14;543:14; 554:16;555:23;566:13; 597:5;637:8,15 factors (1) 489:24

484:4	448:16;544:23;579:13;	562:13	23;590:2;592:22;593:18;
fair (1)	609:12;617:14,25;618:6,19;	find (20)	594:8;628:13;629:12,18,19
485:13	622:2	415:2;421:19;429:23;	630:24
fairly (7)	feet (8)	437:1;443:12;444:21;	flows (13)
458:8;459:3;465:25;	435:25;472:2;477:12;	456:25;476:23;494:3;	438:17;440:13;474:13;
475:19;577:17;594:23,24	494:11;535:7;549:16;634:8;	544:19;545:9,15;554:22;	478:13;488:21;531:7;545:5
faith (1)	637:18	556:1;577:20,21,22;578:14;	551:24;583:1;622:22,23;
479:20	fell (1) 604:15	607:8;610:20	632:18;635:23
fall (3) 495:14;620:1,10	felt (2)	finding (1) 547:11	Floyd (7) 460:1,6,10;464:1,10,11,21
Falls (3)	420:14;554:21	fine (12)	focus (1)
416:12;495:12;557:7	fence (11)	448:24;454:8;501:20;	608:18
familiar (18)	476:8;488:23,23;558:19;	520:3;528:8;541:20;550:18;	focused (2)
417:18,21,22;419:11;	560:13;597:4,5,6,7;602:13,	601:4;606:15,18;620:22;	497:4,7
458:17;497:9;499:2,3;	17	621:7	follow (14)
508:14;520:6,9;521:15,16;	fences (2)	finger (2)	463:8;492:23;533:6;
530:23,23;531:2;532:3,14	593:14,15	545:11;574:15	547:17;577:7,18;579:18,18;
family (4)	few (13)	finish (2)	580:17;590:6;591:22;594:1
523:17;529:14;618:12,12	425:2,6;490:13;505:16;	438:1;621:18	2;613:11
fan-out (2)	526:19;536:1;549:16;	fired (1)	followed (18)
489:10,11	576:13;582:8;606:24;	549:21	435:1;476:4;491:19;
fans (2)	608:21;623:20;628:10	firm (1)	492:16,16;494:2;589:3,16,
461:16;489:8	fewer (1) 571:23	416:11	24,25;590:1,3;591:20,21;
far (26) 422:14;437:4;438:14,15,	5/1:25 field (6)	first (21) 417:3;419:8;440:6;451:1,	592:14,17,17;598:3 following (2)
19,22;439:21;441:12;	420:23;536:4;554:7,9;	3;452:15;481:16;490:25;	471:25;635:24
455:21;470:16;473:14;	558:21;614:21	501:10,17,19;507:6;509:17;	follows (10)
477:10;496:6,15;499:1;	Figure (51)	520:11;523:18;529:9;543:9;	415:16;492:22;502:3;
534:2;549:7,7;551:4;558:23;	431:5,5;432:4,8,18,22;	554:9;587:23;628:10;632:22	518:14;528:17;577:13;
578:16;597:12;605:7,9;	436:23,23;437:5;455:7;	fish (1)	588:10;600:21;605:12;
606:25;634:13	459:17,18;460:19;461:9;	585:4	627:19
farm (17)	471:20;483:19;485:14;	fished (1)	follow-up (4)
432:19,21;438:12;439:9;	486:2,24;487:2,15;488:19,	613:10	500:8,10;527:22;596:1
461:13;474:22;475:16,18;	22;489:2,3,4,5,6,7,9;490:15,	five (9)	font (1)
476:6;487:20,25;488:11;	21;493:7,12,14,22;495:10;	503:2,12;506:4;522:6;	425:4
498:24;499:24,25;514:22;	573:19,20;574:15;575:5;	526:11;611:18;615:11;	foot (6)
542:6	577:2;587:6;592:6;597:11;	617:11;624:24	475:8,8;476:4;486:1;
farmed (1)	604:4;624:2;625:24;628:12,	fix (1)	547:3;590:21
416:19	23;635:1	484:7 flat (3)	footprint (1) 531:25
farther (1) 605:22	figured (2) 507:10;544:19	421:11;458:8;473:9	force (2)
farthest (1)	figures (2)	flood (3)	558:5;562:1
592:18	432:12;495:8	615:13;617:2;622:18	forced (2)
fast (2)	figuring (1)	flood-irrigate (3)	552:11;561:16
485:19;628:19	544:16	530:4,8;616:22	forces (1)
fast-moving (1)	file (3)	flow (59)	543:12
466:11	415:1;530:21;639:21	426:10,13;435:23;436:3,3,	forcing (2)
father (2)	filed (16)	5;438:7,9,12,13,14;439:9;	550:4;560:16
529:7,18	416:21;441:24;443:7,10;	458:9;461:17;465:10;	forever (1)
feature (13)	444:5,8,11;450:8;451:5,14;	471:12,13;473:6,10;474:12;	609:8
422:1,20;423:2,3,3,20,22;	504:8;565:12,17;608:2;	475:10,12,17;476:19,23;	forget (1)
424:10;437:3;462:12,13;	619:4,7	480:10;482:20;488:23,25;	628:11
486:11;637:8	filed-upon (3)	489:8,17,19,22;499:21,22;	forgot (2)
features (6) 421:15,17,22;424:18;	546:3;553:6;580:25 files (1)	500:1;533:17,18,19;535:11; 536:12;538:25;543:10,24;	437:6;621:6 Fork (6)
431:17;638:17	443:20	548:14,15;555:14;559:24;	420:1;469:8;487:3,8;
fed (1)	filing (2)	562:14,21;579:16;581:3;	497:10;498:15
613:14	444:9,9	594:6,12,13;595:10;602:3;	form (3)
fee (2)	filled (1)	618:1;623:1	502:11;534:7;548:2
444:9,9	560:9	flowing (22)	formed (1)
feeds (1)	filtering (1)	461:10;473:7,14;491:12;	504:16
433:10	598:23	494:9;533:25;556:7;558:21;	forms (2)
feel (9)	finally (1)	559:12;580:19,22;589:12,	419:23;496:5

forth (4)	Garmin (1)	431:5;436:15;450:4;	603:19
493:4;552:9;563:11;	432:15	479:16;486:22,25;490:5;	guess (16)
598:19	gate (10)	496:13;509:24;510:6,10;	464:3;479:20;491:22;
forward (1)	433:5,6,9;487:21,22;	512:3,8,15;513:10,14;516:5;	493:19,23;498:25;504:2;
501:7			505:5;515:11;526:15;
	593:8,9,10,11,11	517:3,4,9;524:23;532:19,20;	
Foster (16)	gather (1)	533:13;550:17;563:23;	555:10;593:14;597:11;
449:21;501:11,22;502:1,5,	479:7	565:10;586:25;601:15;	618:16;619:20;626:20
15;503:25;516:8,12;521:12;	gathered (3)	618:13;623:11;627:8;	guessing (3)
527:18;586:24,25;599:18;	419:18,20;439:9	638:21,22	531:11;554:17;561:24
627:8;638:21	gave (2)	good-sized (1)	guidelines (2)
Fosters' (1)	497:6;500:21	547:4	601:16;621:23
619:6	general (6)	Google (4)	guy (1)
found (5)	431:14;437:23;440:16,25;	549:19,19,19;597:11	524:23
428:3,11;476:6;493:18;	461:16;575:14	government (2)	guys (5)
614:1	generally (6)	630:1,9	517:2;601:11;617:7;
foundation (1)	418:9;425:24;440:14;	GPS (12)	626:7;639:16
448:7	520:22;623:9;634:17	424:22;432:10,14;433:24;	guy's (1)
four (11)	genuine (1)	434:12;436:19;441:1;	544:20
491:8,10;509:25;510:19;	424:25	455:12;460:9;471:24;484:5;	
513:19;615:25;624:8,9,17,	geographic (1)	610:20	H
19,24	486:11	GPS-plotted (1)	
four-wheeler (1)	geometry (2)	432:13	half (8)
534:22	426:6;465:9	grade (1)	
		0 1	485:1;531:12;533:21;
frame (2)	geo-reference (1)	548:25	534:6;551:8;553:6;557:4;
506:5;572:18	437:15	gradient (10)	610:10
framework (1)	geo-referenced (2)	426:9;458:9;459:3,5;	hand (6)
453:2	437:16,19	470:25;471:2,3,6,8;473:10	475:5;495:22,23;611:20;
free (3)	geo-referencing (2)	grass (1)	626:3,11
473:7,14;528:1	421:12;437:17	494:14	handle (3)
free-flowing (1)	gesturing (1)	gravelly (1)	501:16,18;560:7
547:8	626:11	486:19	Hang (1)
front (7)	gets (14)	graze (2)	519:18
418:20;426:25;444:8;	433:16;434:19;506:24;	530:3,4	happen (4)
525:5;568:23;610:22;624:3	542:18;554:23;571:11;	Great (12)	418:12;518:22,23;565:4
full (6)	579:21;582:6;599:6,8;	498:1;504:15;505:15;	happened (6)
440:24;519:25;527:8;	605:11;607:18;614:13;636:2	517:8;518:20;519:19;525:3;	451:23;476:23;552:13;
529:3;534:12;554:8	GIS (2)	528:24;608:20;614:2;626:8,	565:13;609:10;632:10
fully (1)	420:22;495:16	25	happening (2)
543:23	given (4)	greater (1)	447:1;601:14
fun (1)	418:11;570:23;628:8;	466:10	happens (4)
525:4	631:22	greatly (1)	458:4;504:9;563:19;636:1
functional (2)		565:11	
	giving (2)		happy (1)
470:17;542:9	481:18;576:10	green (7)	535:10
FURTHER (31)	glad (2)	433:25;434:1,2;492:22;	hard (6)
430:15;436:20,22,24;	607:17;619:20	493:1;565:16;591:3	506:19;517:21;570:24;
460:18;467:24;472:13,15,	glanced (2)	ground (17)	614:24;618:16;626:4
23;477:16,17;481:9;484:1;	458:13;634:23	421:22;423:21;424:10;	hardly (3)
486:16,17;507:17,21;508:1;	glasses (2)	428:9;429:24;442:12;447:1,	512:3;558:7;571:15
515:23;547:10;548:17;	454:14;630:18	3;461:7;476:3;530:10;	Harris (64)
551:17;552:15;556:11;	Glenda (3)	531:25;575:17;576:8;608:7;	414:6,19;415:9,11,24;
575:2;580:8;581:15;585:9;	415:6;524:19;620:1	616:24;631:4	416:2;417:11,15;426:24;
627:1;632:25;638:19	goes (42)	ground's (1)	427:2,3;430:5,11,16;431:25;
furthest (1)	426:23;430:2;433:7;	603:3	432:3,6,9;444:10,25;446:7;
436:25	435:14,24;462:9,9,14,15;	ground-truth (1)	447:5,17,22;448:6,15;
futile (1)	465:6;475:18;476:9;480:1;	423:7	451:21;452:10;457:4,6;
610:6	488:11,22;502:23;507:1;	ground-truthing (1)	459:9;464:25;500:8,10,13;
future (2)	535:16;553:14,23;555:20;	423:10	501:2,4;514:1,5,6;515:23;
424:11;505:8	559:16;581:6;587:20,20;	grow (4)	527:19,20;549:20;550:17;
	590:12;592:1;595:20;596:9;	508:4;603:23;606:1,9	580:11,13,16;585:9;592:5;
\mathbf{G}	599:8,9;605:3,10;611:9,9;	growing (7)	599:23;600:1;602:7;627:9,
	613:9,10,11;616:1,15;622:4;	430:23;440:1;521:24;	10;628:15,19,23;629:6;
gan (2)	638:17	541:15;547:3,4;563:4	631:9,15;633:1,4;636:17
gap (2)			
475:20;476:1	good (34)	grows (1)	Harris' (1)

445:22 Harry's (2) 547:23;555:16	23,23,25;538:4,7;541:19,20; 567:15,19;580:7,10;585:10, 12,14;586:24;587:1,4;592:6;	8,12,21;463:14;464:3,11; 467:8;480:10;482:13;491:8, 20,23;492:10	422:23 hydrologist (1) 416:9
head (6) 468:14;489:12,16,16,21;	595:23;597:19;599:12,16, 25;600:2,6,8,13,15,23;601:2;	hip (1) 434:17	I
549:25 headed (3) 491:4;496:6;590:8	602:16;604:2;607:5;612:11, 13,16,18,21;613:3;621:9; 623:17;627:2,7,9,11,12,14,	hired (1) 417:5 historic (5)	ice (2) 615:12,13
headgate (58) 459:21;470:13,15,16,18;	21,23;628:1,18,21;629:1,3;	419:25;421:21;427:4;	Idaho (8)
475:22,23;509:21;522:21;	631:13,16,19;633:1;635:15, 17;636:19;638:20,22,25;	434:25;532:3 historical (15)	416:6,12;417:4;425:4; 428:11,22;429:3;451:5
531:11;534:11,13,16;535:1, 12,14,16,23,24;536:16;	639:2,7,10,17 hearings (3)	420:15;421:8;429:25; 436:1,8,9,17;442:19;445:18;	idea (4) 437:23;438:25;495:3;
543:8,9,10,16,18;544:5,20; 546:1,3;553:5,16;555:13;	448:10;518:9;617:6 hearing's (1)	447:2;469:2;471:12;480:7, 18;499:18	527:15 identified (4)
561:3,9,10,24;562:1,2,4,15; 577:6;581:3;583:14;584:4,5,	436:15 hearsay (1)	historically (10) 429:17;442:25;452:23;	487:11;493:7;541:24; 589:19
6,9;585:21,25;586:15,17; 613:19,25;618:17;620:9;	621:2 heck (1)	481:19;482:4;490:1;511:24; 565:7,25;589:14	identifier (2) 424:10;428:8
622:1;629:10,13	613:16	history (4)	identifies (1)
headgates (12) 470:23;521:25;522:23;	held (4) 497:19;499:4;503:24;	421:21;422:1;423:20; 480:6	498:9 identify (6)
557:19,21;585:21;586:2,19; 617:9;620:17;621:10,13	504:2 Hello (1)	hit (4) 512:9;554:5;588:17;620:6	425:7;434:5;461:18; 506:17;516:8;544:23
headgate's (2) 535:17;543:23	635:13 help (4)	hits (3) 506:18;552:23;599:5	IDWR (9) 420:21;423:25;424:6,21,
heading (4) 423:23;426:3;438:10;	495:11;522:21;551:24; 618:25	hitting (1) 533:8	25;425:13;428:3;452:2; 537:15
484:15 headwater (1)	helped (3) 417:9;421:25;426:5	Hodaka (1) 563:6	IDWR's (1) 452:21
532:4 headwaters (2)	helpful (4) 437:22;490:14;606:13;	Hold (3) 628:15;633:14,14	illegal (2) 429:16;511:15
531:8,15	612:19	holds (2)	image (1)
hear (13)	Hey (1)	496:24;543:12	437:20
431:18,21;448:20;491:22;	628:5	home (1)	imagery (3)
517:7,21;519:9,10;524:21,	hi (5)	507:13	597:11;631:3;637:3
23,24;608:13;630:23	450:3;505:24;524:18;	honest (7)	images (1)
heard (25)	567:23;623:25	610:15;614:10;615:1;	443:21
431:10;462:5;476:25;	Hidden (1)	617:11,24;624:25;625:5	immediately (3)
478:11;490:25;498:17;	613:6	hoping (1)	425:7;475:21;487:21
499:1,17;506:5,6;516:16;	hide (1)	608:17	impacted (1)
529:6;539:5;591:24;607:1, 13;617:7;626:18;628:6,9;	554:20 hiding (1)	horizontal (2) 455:15;494:11	564:8 impede (1)
637:7,20,21,21;638:2	515:25	horses (1)	536:14
Hearing (170)	high (15)	531:18	implication (1)
414:8,14;415:4,5,18,23;	465:14;475:19;476:23;	horseshoe (1)	635:6
417:19;427:2,20,24;429:22;	477:14;509:25;512:16;	525:5	implying (1)
432:5;444:16;445:23;447:9,	521:4;581:8,10;594:21;	hours (2)	635:4
14,16,19;448:13,16,18,22,	603:18;613:13,15;618:1;	430:8;582:8	important (8)
25;449:8,12,17;451:18;	623:7	house (1)	423:19,22;437:3;473:3;
453:7;454:15;457:10;	higher (6)	530:22	585:3;632:16;635:3;639:15
460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6,	484:1;595:2,5;598:13; 603:3;638:3	Huh-uh (1) 516:10	imprecisely (1) 465:18
11;498:1,3;499:1;500:6,11,	high-flow (1)	human (4)	imprecision (3)
14,23,25;501:5,15,20,24;	623:7	439:21;441:7;470:12;	439:19;465:9,19
502:5,10;503:22;505:15,24;	high-water (5)	488:13	improved (1)
508:2;510:21,25;514:1;	476:22;520:21;525:14;	human-made (1)	421:1
515:24;516:5,7,11,16,19,21;	526:5;552:9	483:11	inadvertent (1)
517:1,8,11,13,15,19,23;	hill (6)	hundred (3)	442:4
518:4,8,16,20;519:1,11,15,	435:20,23;549:10;551:25;	547:2;572:5;576:20	inadvertently (1)
19;524:11;525:9;527:17,21,	616:2,16	hundreds (1)	441:23
24;528:4,8,11,19,24;530:20; 537:5,7,11,13,13,19,21,22,	hilltop (18) 435:3,12;438:14;462:2,4,	424:8 Hydrographic (1)	inch (1) 434:11

inches (1)	416:24	505:10	460:9
581:5	installed (4)	Iona (1)	Jordan (14)
incident (1)	561:3;584:5,6;620:9	416:5	420:5;426:5;431:11;
619:12	instance (1)	ironically (1)	462:5;477:1;485:9,15,18,24
inclined (1)	620:13	430:11	491:22;545:25;548:13;
440:12	instructed (1)	irrelevant (1)	582:6;595:18
include (2)	468:25	444:3	July (9)
424:4;453:19	instructions (1)	irrigate (7)	450:12,12;455:13;461:5;
included (11)	478:25	503:17;570:19,23;571:18;	465:24;522:9,12;524:7;
428:15;442:13;444:18,21;	instrument (1)	622:11,17;624:21	526:12
454:11;496:21;497:18,20,	466:17	irrigated (6)	jump (4)
20;521:2;583:8	intake (3)	558:16;611:11;614:19;	432:3;550:2;552:9;567:17
includes (1)	433:10,11;461:15	616:25;622:16;624:22	jumping (1)
468:17	intend (1)	irrigating (3)	423:1
including (3)	505:4	503:16;563:2,2	jungle (4)
443:13;581:21;628:7	intentionally (1)	irrigation (14)	434:8,9,11;459:24
inclusion (1)	564:13	431:11;499:5;530:14;	junior (4)
451:6	intercepted (2)	569:3,14,15,18,22;570:12;	481:13;525:22;526:6;
inclusive (1)	464:1;480:11	616:12;617:1,2;620:11;	614:12
478:6	intercepts (1)	622:18	juniors (1)
incorrect (1)	436:13	irritating (1)	481:23
511:19	interest (1)	618:15	
incorrectly (2)	554:22	issue (2)	K
456:20;465:18	interested (2)	570:4;639:11	
increase (2)	447:25;608:16	_	Kauer (64)
465:15;483:9	interesting (1)	J	423:12,14,19,23;425:18;
increasing (1)	506:2	- (40)	426:18,19;428:4,13;429:10,
481:17	interference (1)	James (19)	15,21;430:6,8,12,21;437:9;
indicate (4)	481:1	415:14;431:12;537:6,10,	438:10,10;443:13;465:1;
428:16;430:23;433:22;	interrupt (2)	10;540:18;547:19;550:9;	468:9,22;469:6,11,15,20,21
435:10	432:1;580:4	572:25;576:13,18;580:5;	24;470:1,10;471:13;484:16,
indicated (1)	intersect (1)	582:6;596:12;599:23;607:8,	20,23;485:4;486:6,16;487:3
437:8	461:20	17;612:9;637:21	503:3;515:6,18;521:14,15;
indicates (2)	intersects (1)	James' (1)	523:9,21;524:2;526:9;536:7
433:23;436:23	436:1	556:1	537:1,3;538:12,17;551:7;
indication (2)	intervention (4)	January (1)	562:24;577:24,25;578:3,23;
430:25;470:5	439:21;441:7;470:12;	520:11	579:3,12;591:6;607:11;
individual (1)	476:14	Jennifer (3)	634:19
568:14	into (69)	504:12,16;505:13	keep (7)
Inexplicably (1)	417:16;420:11;433:7;	jeopardize (1)	545:16;546:15;552:21,21;
483:1	434:8,9,18;436:7,21;439:22;	618:22	553:21;574:15;593:12
information (13)	446:21;447:8;449:15;	job (3)	Keeping (1) 624:2
420:16;426:21,24;427:14;	458:11;459:4,24;462:9,10;	457:6;468:15;563:13	~
443:12,15,19;501:12;	463:22,22;464:17;465:6; 467:11;468:13,14;471:10;	Joe (1) 527:4	kept (1) 464:6
522:19;562:23;601:11;	476:8;480:16,17;482:21;	Johnson (36)	
603:8;618:4			kids (1)
informed (1) 492:9	487:3,23;512:22;532:13; 533:1,10;541:25;543:13,13;	414:7,10,12,13;449:21;	533:4 kind (53)
initialed (1)	535:1,10,341:23,343:13,13;	490:5;515:25;516:4;585:10, 11,13,17,24;586:12,21;	423:11;435:9;459:1;
565:17	558:5,21,24;561:23;562:1;	597:21,22;598:2;599:11,17,	462:22;482:1;485:18;
injection (8)	572:14;579:22,24,25;581:6;	18,22;600:2,3,16,19,21,23;	488:25;490:17,19;492:25;
482:10,17,23;483:2;	582:4,14;583:1;587:21;	601:7;602:9,17;604:3;	493:4,19;494:4;496:4,5;
486:13,18;487:2;488:2	594:12,13,14;595:9,10;	608:16;612:4;613:1;622:6	503:9;508:14,22;512:9;
injure (2)	596:18;599:8,9;601:25;	Johnsons (2)	515:12;543:12;544:6;
445:13;580:23	611:10;616:12;629:11;	561:13;583:15	547:25;548:13,22;553:15;
injured (3)	632:18	Johnsons' (3)	554:17;558:22,22;559:4;
578:24;579:13,16	investigate (2)	561:11,21,24	560:4;562:20;571:17;
injures (1)			J00. T ,J02.20,J/1.1/,
			578-12-584-11 18-585-3-
	591:3,12	Johnson's (1)	578:12;584:11,18;585:3; 587:8:596:12 16 18:599:7:
579:2	591:3,12 investigating (1)	Johnson's (1) 612:22	587:8;596:12,16,18;599:7;
579:2 injury (7)	591:3,12 investigating (1) 416:24	Johnson's (1) 612:22 join (5)	587:8;596:12,16,18;599:7; 603:1,2;604:16;605:12,14,
579:2 injury (7) 419:3;427:16;445:8;	591:3,12 investigating (1) 416:24 investigation (1)	Johnson's (1) 612:22 join (5) 429:13;449:4;619:14,16,	587:8;596:12,16,18;599:7; 603:1,2;604:16;605:12,14, 24,25;612:19;619:22;
579:2 injury (7)	591:3,12 investigating (1) 416:24	Johnson's (1) 612:22 join (5)	587:8;596:12,16,18;599:7; 603:1,2;604:16;605:12,14,

414:17;445:6;452:19;	622:21;625:2,2;626:16;	630:4;632:18	551:25,25;574:22;630:11;
503:15;611:4,15;612:21;	632:2	left (22)	637:18
627:14,17;631:19	Lastly (2)	415:8;420:1;433:8,15;	lining (1)
King's (9)	585:3;632:16	441:7;469:8;475:8;493:18;	576:25
418:4;441:22;443:2;	late (5)	497:10;498:15;527:9;549:7;	list (1)
444:18;453:16;497:7,15;	443:7,8;572:18;573:1;	558:19;562:9,10,16;584:8;	497:19
568:21;612:13	622:7	585:21;586:2,3;629:8;637:4	listed (1)
Kipp (1)	later (10)	legal (19)	444:13
417:12	420:6;522:5,6,12;526:11;	429:16;442:5,15,18;454:2;	listen (2)
knee (1)	565:14;602:1;620:11;621:5;	489:15;503:4;511:8;515:6;	528:6;601:17
434:17	639:16	539:12,17,17,19;541:1;	listened (4)
knew (3)	latest (1)	574:4,6,7;578:11;621:4	548:23;581:20;602:20;
511:13;581:20;609:13	563:6	legality (1)	617:7
knowing (2)	law (1)	511:19	listening (1)
539:16;549:24	617:23	legally (1)	531:1
knowledge (6)	lawful (2)	488:8	literally (1)
521:20;524:3;537:2;	538:12;578:4	Lemhi (1)	549:25
548:9;567:8;572:17	lay (1)	622:22	little (51)
knowledgeable (1)	442:11	length (4)	435:8;437:11;461:22,23;
551:4	laying (1)	426:1;440:24;550:2;	480:16;485:11;490:21;
known (4)	441:1	556:24	496:1,2;506:21;507:3,4;
442:12;479:11;539:19;	Leadore (3)	less (7)	517:5;519:11,22;539:1;
544:7	520:16;527:2;534:14	450:17;515:15;532:2,20;	545:12;548:14;550:14;
knows (1)	leak (1)	553:13;571:18;605:12	551:21;552:15,20,22;
564:13	538:23	letter (7)	553:13;556:11;562:17;
L	leaking (4)	462:23,24,25;479:1;	574:10;578:2;586:7;589:14;
L	538:20;539:1;554:1,2	509:20;569:24;620:1	601:25;602:1,10;603:3,17,
labeled (4)	learned (2) 423:20;601:19	level (5) 465:11;466:14;594:23,24;	19;604:19;605:11;606:3,7; 609:22,23;610:11,12,16;
460:6,10;487:13,13	learning (1)	626:3	623:5,6;624:11,13;626:2;
laid (1)	601:20	levy (3)	631:25
448:7	lease (2)	419:23;421:23;434:23	live (3)
Lake (11)	530:3;608:1	life (1)	505:12,13;576:10
531:9,10,11,17,17,21,23,	leasing (1)	618:16	lived (5)
24;533:10;540:14;585:5	527:12	lifted (2)	508:24;520:16;529:24;
lakes (3)	least (11)	433:6,7	531:20;576:1
531:22;532:13;585:5	427:8;436:19;437:14;	light (1)	living (2)
land (9)	460:5;478:5;479:13;494:4;	449:9	485:24;506:14
504:2;527:12;529:23;	496:5;510:17;526:11;545:3	lights (1)	LLC (1)
530:1;559:17,17;586:11;	leave (1)	557:7	504:19
630:1,9	500:17	likely (9)	local (2)
lands (5)	leaves (2)	421:16;437:17;456:23;	424:18;534:13
558:17;571:13,22;572:2,3	536:19;549:17	468:23;476:14,17;537:13,	locate (2)
language (3)	leaving (2)	15;639:14	423:23;424:3
453:22;478:16;570:13	549:2,6	limine (4)	located (6)
large (3)	Lee (70)	426:17;447:11;449:4;	435:6;498:23;514:9;
420:18;436:4;531:13	418:14;420:1;421:24;	450:25	574:2;604:8;637:5
largely (1)	429:20;430:1;436:21;437:2;	line (50)	location (16)
422:24	446:21;462:16;467:16;	422:24;426:16;427:23;	421:16;424:21;426:4;
larger (1)	468:21;469:8;477:2,21;	430:3,10;433:15,20;437:6;	428:8,13;435:11;436:7;
489:18	478:4;479:5;487:3,11;	444:3,6,23;455:15;460:17;	463:3;489:6;493:23;551:14,
Larry (3)	497:11;498:15;522:17; 527:12;530:25;539:24;	473:19;492:20;494:17; 516:22;549:6;550:1;551:5;	17;613:3,22;631:24;632:14
548:24;552:1,13 last (37)	540:7;549:13;550:6;551:6;	552:23;553:3;556:12,14;	locations (1) 438:23
	552:6;553:17,22;554:2;	557:1;560:14;575:5,23;	lockable (4)
423:18;430:12;436:12; 441:20;498:4;508:23;	557:11;558:2;561:11;	587:16,18,24;588:9,10,12,	534:13;620:9;621:12;
510:18;512:6;513:16;	565:10;566:14;578:18;	13,17,18;589:3,4,4,13,17;	622:1
519:25;529:4;538:20;540:9,	581:13;582:14;583:1,11;	590:12;591:24;597:2,7,8;	locking (1)
10;541:16;552:4;553:24;	584:12,20,22,23,24;592:1,	602:13,17;619:1	509:20
555:18;563:25;564:2,2,15;	23;594:5;596:6;603:14;	linear (4)	lodge (1)
571:1,12;576:13;579:15;	605:2,2;616:11,18,21;617:1;	423:2,3;462:11,13	631:9
580:17;607:1;609:24;	619:3,9,16,16,18;620:5;	lines (8)	long (26)
611:18;613:14;620:1;	622:22,23;623:4;624:4;	437:18;445:16;458:24;	416:14;421:25;422:14;

424:19;430:25;440:14;	598:13;626:5,9	14,18,21;524:8;527:23;	math (1)
466:8;481:13;494:14;508:3,	lower (41)	528:9,11,12,25;529:2;538:5;	490:18
3,9;510:9;511:22;521:20;	444:12,19;445:2;454:18;	541:18,21;549:18;550:14,	matter (4)
523:9;541:10;563:5,12;	455:1;469:3;503:8;511:6,18;	18;553:8;567:13;568:1;	431:14;440:16;600:17;
566:2;576:20;600:9;626:17,	513:2;539:8,12,15;541:4;	595:25;596:4;599:14,15,24;	639:12
19,23;639:15	553:9,11,12;558:23;559:5,	627:3,5;636:20,23;638:19	matters (1)
longer (6)	10,13;560:3,6,19;561:9,16,	Manwaring's (1)	417:7
470:14;482:14;538:18;	23;562:12;564:18;565:15;	491:11	may (27)
564:11;570:2;618:6	579:4,19;581:18;588:19;	many (15)	421:17,17;422:1,2;424:7;
longstanding (1)	589:9;606:7;610:19;620:2;	439:5;454:11;455:21,22;	431:17;447:2,2;448:18;
489:17	622:19;623:2;626:17	485:20;510:2;511:13;531:5;	458:7,9;470:23;489:14;
look (46)	lowers (1)	545:7;570:18,20,22;571:4,8;	494:8;497:20,21;500:22;
423:15;425:13;437:5;	543:11	624:22	516:17;519:2;528:3;545:3;
445:1,2,18;450:14;453:10;	luck (1)	map (75)	590:8;616:24;620:10;
457:17,23;458:11,20;	465:3	420:19,24;421:13,19,20;	633:12,20,20
470:22;471:14,20;474:2;	lucky (1)	422:13,17,19,20,22;426:9,9;	maybe (29)
483:19;486:2;488:19;	503:14	433:4;435:6,7;436:18;437:7,	424:25;430:17;432:16;
491:20;497:6,15;540:23;	Luke (5)	15,16,19,22;441:2,6;454:10;	435:25;490:14,20;501:16;
543:6,15;546:5;549:4;	428:14,18;443:15,19;	457:18,21;458:21;460:3;	505:17;508:13;509:2,2,18;
558:22;560:14;568:23;	471:15	462:18,21;464:9,16;465:17;	517:5;522:12;524:12;526:9,
569:12,15;573:18;574:14;	M	471:9;472:16,17,22;473:18;	11,14,25;541:11;546:21;
592:3;606:13;607:23;	M	487:6;493:1,13,16;495:14;	571:14;573:19;591:23;
608:13;611:24;619:3,5; 630:8,11,17,18;637:3		547:20;549:4,5,23;551:7,13; 574:11,19,19,21;575:10;	607:7;619:21;623:6;634:8; 635:4
looked (12)	machine (1) 532:17		055:4 McCollum (1)
421:20;423:14;435:21;		587:14;597:5;604:5;606:13; 611:25;612:19;630:4,7,13,	428:17
440:1;453:12;470:1;473:18;	machines (2) 533:5;566:20	16,25;631:5,8,20,23,25;	McConnell (19)
494:13;549:22;570:13;	mail (1)	632:2;634:15;637:3,13,14	415:7;427:7;428:20;
592:13;629:25	639:15	mapped (3)	441:16;479:5;482:16;492:4;
looking (24)	mailed (1)	496:12,15;498:24	503:6,7;515:10;524:19;
432:19;442:19;455:7,25;	639:13	maps (30)	569:2;582:24;614:12;
459:16;484:14,25;485:10;	main (7)	420:19,20,25;421:6;422:4,	619:25;620:1;632:19,22,23
533:20;542:3;546:23;	543:11;546:15;548:2;	8,24;423:8;436:16;447:2;	McConnells (27)
550:25;575:6,14,15,22;	555:24;561:21;562:14;	458:17,22;471:4;487:13;	450:5;453:18;469:15,20;
577:2;578:13;595:3;596:6;	618:23	544:18;546:23;547:18;	472:25;482:3;502:17;507:8;
612:10;625:24;630:2;634:25	mainly (1)	548:9;549:19;551:13;	511:6;512:22,23,24;513:4,
looks (19)	507:1	575:22;589:19;630:2,9;	21;539:7,12;545:20;557:14:
434:13;435:2,16,23;436:8;	mainstream (2)	631:7;632:5;633:10;634:14,	559:5,16;564:17;567:10,24;
452:8;455:7;457:20;464:9;	535:17;562:6	16;636:25	568:24;578:17;581:17;624:1
483:24;485:5;488:13;	maintained (4)	March (1)	McConnells' (28)
596:24;629:14,17,22;	559:8,20;560:2,21	450:17	428:16;429:6;442:20;
630:24;635:1,6	makes (4)	mark (7)	443:6;446:13;451:8;473:2;
losing (2)	478:12;570:10;608:14;	630:20;631:5;633:6,7,8,	481:17;496:20;497:6;546:3
502:24,25	621:25	11,22	551:10;552:17;556:10,23;
losses (1)	Making (10)	marked (3)	557:21;558:17;559:2;
439:6	445:20;461:4;468:11,24;	461:15;592:18;633:25	560:19;568:17;569:21;
lost (3)	471:6;486:5;547:5;566:15;	marker (2)	579:20;612:5;614:19,20;
433:16;609:19,25	567:5;581:23	630:22,22	615:5;626:18;632:18
lot (26)	man (1)	marking (2)	McConnell's (1)
422:5;423:2,4;429:24;	600:5	634:3,5	422:16
439:6;458:21;497:12;	management (1)	marks (5)	McHugh (1)
502:24;511:13;517:7;	505:11	421:12,14;575:4;633:11,	468:13
530:12;532:2,8,20;536:25;	manipulated (1)	21	meadow (2)
560:21;563:11;577:11;	636:7	marshy (2)	436:6;480:16
592:10,13;601:20,21;	manmade (2)	593:19,20	mean (34)
618:20;621:21;631:21,21	482:21;531:17	mat (1)	424:24;430:5;434:1;
lots (1) 533:13	Manwaring (60)	494:15	462:9;463:7;466:24;475:14;
	414:9,20;417:14;427:21,	match (2) 495:13;499:16	481:20;506:19,19,20,22,23; 508:22;510:8;512:13;
louder (1) 517:5	22;428:2;429:13;444:16; 449:2,5,9;468:1,2,6;479:18;	material (1)	513:13;525:17;548:5;549:8
low (9)	490:2,12;501:6,9,18;510:22,	486:20	15;559:21;564:21;571:13;
458:9;465:13;466:4;	24;511:2;513:24;516:14;	materiality (1)	572:8;576:13;577:16,21;
473:10;506:10;515:11;	517:25;518:2,21,23;519:3,8,	449:7	579:3;590:22;593:9;604:24;
	011.20,010.2,21,20,017.0,0,	. 1/1/	2 / 7 · 2 · 2 · 2 · 2 · 2 · 7 · 7 · 7 · 7 ·

614:18;634:8	messed (1)	mistakes (1)	463:13;474:14;562:2
meaning (1)	576:22	442:9	moving (11)
613:22	met (1)	model (3)	434:20;459:24;464:17;
meanings (1)	581:1	420:21;432:17;441:3	485:19;563:4,9,12,14;
442:15	microphones (1)	modern (1)	577:12;596:17;637:23
means (4) 424:21;434:3;489:21,25	517:4	421:9	much (26) 439:24;466:16;510:8;
meant (1)	mid (1) 526:15	moment (1) 456:10	530:7;532:15;533:15;
572:3	mid-'80s (1)	Monday (1)	535:15,16;540:24;555:25;
measurable (3)	526:15	522:12	556:7;566:21;571:2;579:9;
471:13;534:10;635:7	middle (4)	money (1)	588:11;591:15;598:9;
measure (9)	415:9;457:15;525:5;	520:25	599:18;605:24;607:2,3;
474:7;512:18,20;535:11,	621:10	month (6)	610:15;620:17;624:24,25;
15;542:10;553:4;555:11,22	might (18)	563:14,24;568:4;569:4,5,7	626:4
measured (21)	439:6;462:10;466:10,11;	months (1)	multiple (8)
427:5;430:18;438:9,9,12,	516:16;523:12;524:9;526:9;	568:10	424:15,17;466:15;480:5,
13,14,23;465:1;466:5,6;	561:25;564:23;565:9,11,17;	Moon (1)	15,20;509:4;630:12
484:17;491:16;495:23;	566:13,16;601:25;612:9;	566:24	myself (4)
553:15;581:8,16;582:1,3,5; 635:10	617:11 Mile (35)	more (46) 430:20;434:17,19;453:17;	607:24,24;608:5;620:13
measurement (5)	441:10;462:10,15,15;	460:6;461:21;466:16;	mystery (1) 618:7
426:3;465:9;474:6;607:2;	464:6,14,17,22;466:23;	474:14;477:17;486:15;	016.7
629:16	467:1,4,11;473:1;476:10;	490:21;507:5;509:19,19,19;	N
measurements (3)	480:15;497:22;531:12;	515:17;526:6;530:12;531:2,	
438:3;439:15;486:6	534:6,6;542:25;551:8,9;	23;532:8;533:25;538:22;	nail (1)
measures (1)	553:6,13;557:3;616:7,8,13,	540:1;546:14;551:21;	466:14
512:21	14;617:3;619:18;620:5,21;	552:22;560:7,21;571:18,23;	nailed (1)
measuring (18)	625:7,10	572:2;582:19;586:22;	424:8
438:5;488:4;535:3;536:15,	miles (3)	597:22;602:11;605:12,16;	name (13)
17;544:15;553:16;555:2,7,	531:10;541:11;563:11	606:13;614:4;617:11;	415:6;416:3;431:20;
11,18,20;556:9,14,16,21,22; 579:8	Mill (2) 619:13,15	621:17;631:25;634:15; 637:24;639:9	436:11;462:3;503:24,24;
mechanisms (1)	mind (5)	most (10)	504:11;519:25,25;527:5; 529:3,4
467:22	442:11;452:14;545:24;	425:25;456:23;468:23;	named (2)
meet (2)	583:7;606:21	476:16;512:10;540:5;	436:17;440:15
546:19;566:8	Mine (1)	598:15;605:14;608:16;	names (1)
meeting (21)	497:23	632:16	424:18
503:2;506:3,5;509:22;	mingle (1)	mostly (2)	narrative (2)
511:3;514:25;515:1;538:1,2,	549:14	419:18;435:25	502:11;601:3
7,8,11;539:6,15;578:1,7,9,	minimum (1)	Mother (1)	narrow (8)
15,20;621:2;635:14	477:12	618:25	475:20;476:1;493:19,19;
meetings (1)	minute (4)	motion (6)	494:19;496:4,4;544:10
537:15 meets (2)	519:18;531:24;602:9,11 minutes (2)	426:16;447:11;449:4,4; 450:25;451:1	narrower (1) 434:19
554:10;558:3	606:24;608:21	motor (1)	National (1)
Melvin (1)	miscorrectly (1)	424:9	422:23
523:23	487:10	motorcycle (1)	natural (20)
memo (1)	misnomer (1)	563:6	434:24;470:11;474:12,23,
428:14	489:15	Mountain (2)	25;475:1,3;476:12,21;
memorized (1)	miss (1)	416:10,15	478:14,15,23;482:21;488:7;
439:17	512:10	mouse (1)	491:5;494:3;531:10;595:4;
memory (2)	missed (2)	415:2	638:4,7
456:20;513:10	422:21;583:25	move (14)	naturally (2)
memory's (1) 537:6	missing (1) 581:10	417:16;447:7;448:8; 474:18,20;501:7;519:14;	441:9;552:12 nature (2)
mentioned (10)	misspoken (1)	545:23;548:2;563:10;	499:15;618:25
420:24;444:6;474:4;480:6,	494:8	564:13;602:10;615:7,22	near (3)
7;526:18,21;548:13,25;	mistake (3)	moved (11)	573:6;611:8;634:7
569:23	452:15,16;461:4	464:5;467:3;508:19;	nearly (1)
Merritt (3)	mistaken (1)	545:4;563:15;564:7,9;	424:22
491:22;535:24;564:6	496:1	571:13;596:12,22;626:20	necessarily (2)
mess (2)	mistakenly (1)	moves (6)	439:10;633:17
			I f
549:11;577:4	417:22	436:3;447:17;460:18;	necessary (1)

483:3	northwest (8)	540:1	635:15,17;636:19;638:20,22
need (7)	435:25;436:4;441:10;	occupation (2)	25;639:2
425:22;454:13;475:5;	460:8;461:15,17,23;591:23	416:8,9	offset (2)
602:7;615:22;618:24;628:19	note (3)	occupied (1)	437:17;543:21
needed (2)	473:4;516:7;639:5	529:21	old (18)
492:9;537:8	noted (4)	occur (2)	438:9;440:2;508:8;520:4,
needs (3)	429:23;430:5;449:13;	439:6;482:1	5;527:6;531:19;535:9,21;
469:12;578:11;639:9	457:10	occurred (3)	559:23;560:8;563:5;605:10
negatively (1)	Nothing's (1)	427:15;470:5;476:21	613:18;614:1,6;636:6;638:7
566:10	552:4	occurring (3)	older (4)
neighbors (7)	notice (4)	438:7;453:15;489:21	421:7;436:1;580:25;
522:8;601:18;609:5,6,7;	433:14,20;486:8;564:23	occurs (1)	618:14
618:13;626:22	noticed (6)	489:17	omission (5)
net (1)	434:12;503:12,23;513:16;	off (51)	442:4,6,14;451:25;453:21
439:12	547:19;626:10	415:8;435:14;437:11;	omissions (1)
new (5)	November (4)	448:5;465:16;466:18;470:2,	442:10
453:24;536:3;619:21;	468:16;557:16;568:2;	4,8;472:16,17,22;491:4;	omitted (2)
627:15;631:12	569:19	502:19;507:9,19;509:5;	441:24;453:8
newer (2)	nowhere (1)	512:4;513:22;516:18;523:1,	Once (8)
435:21;560:22	611:8	5;528:5,5;532:17;537:8,9;	488:23;506:18;533:3;
next (21)	number (17)	540:12,16;554:20;561:3;	554:5,24;571:13;577:4;
415:10;451:10;503:12;	417:25;418:16;423:25;	562:5,7,16;564:15,20;	579:21
528:3,12;534:24,25;536:10,	424:3,19;425:9;432:17;	566:15;569:18,25;570:1,2;	one (108)
11;562:5;567:3;588:17;	452:1,7,8;462:21;465:7;	578:12;579:15;584:7;	417:23;418:11;423:2;
590:17,25;597:12;615:8,9;	484:2,4;489:24;567:25;	602:22;606:2;607:12;610:1;	426:4;430:20;436:8,13;
620:12;630:23;631:7,20	634:1	615:12;622:7;630:18	441:15;451:4;452:7,13;
nitty-gritty (1)	numbers (4)	offer (2)	455:25;456:4,14,15;460:7,
420:11	463:2;483:25;484:1;	447:17;505:16	10;465:7,8;470:24;471:9;
nobody's (1)	630:20	offered (1)	472:12;475:5;476:12,17;
567:8		448:4	478:10,12;480:6,7;487:11;
none (4)	O	offering (1)	494:19;495:7;501:11;
486:18;582:13;627:10;		448:1	502:22;506:2,24;507:3,11;
630:12	object (2)	offhand (1)	500.5 7 8.522.6 7.527.5.
			509:5,7,8;523:6,7;527:5;
nonuse (1)	426:15;457:4	520:22	534:16;536:3,6,6;537:8;
nonuse (1) 431:1	426:15;457:4 objecting (1)	520:22 office (6)	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14;
nonuse (1) 431:1 normal (4)	426:15;457:4 objecting (1) 447:23	520:22 office (6) 426:7;519:2;527:3;556:1;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20	426:15;457:4 objecting (1) 447:23 objection (8)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14;	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146)	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24;	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19;	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17,	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6,	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1)
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4,	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10)
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9;	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24)
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10;	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24;	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10;	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northeasterly (1)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northeasterly (1) 588:15	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12 obstructing (1)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14; 586:24;587:1,4;592:6;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22; 497:23;522:20;539:18;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northeasterly (1) 588:15 northern (1)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12 obstructing (1) 543:24	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14; 586:24;587:1,4;592:6; 595:23;597:19;599:12,16,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22; 497:23;522:20;539:18; 541:11;544:9;548:15;
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northeasterly (1) 588:15 northern (1) 461:24	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12 obstructing (1) 543:24 obstruction (1)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14; 586:24;587:1,4;592:6; 595:23;597:19;599:12,16, 25;600:2,6,8,13,23;601:2;	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22; 497:23;522:20;539:18; 541:11;544:9;548:15; 555:12;570:11;571:1;582:2
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northern (1) 461:24 northernmost (3)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12 obstructing (1) 543:24 obstruction (1) 483:12	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14; 586:24;587:1,4;592:6; 595:23;597:19;599:12,16, 25;600:2,6,8,13,23;601:2; 602:16;604:2;612:11,13,16,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22; 497:23;522:20;539:18; 541:11;544:9;548:15; 555:12;570:11;571:1;582:2 610:10;614:14;616:21
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northeasterly (1) 588:15 northern (1) 461:24 northernmost (3) 436:12;455:14;573:23	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12 obstructing (1) 543:24 obstructions (1)	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14; 586:24;587:1,4;592:6; 595:23;597:19;599:12,16, 25;600:2,6,8,13,23;601:2; 602:16;604:2;612:11,13,16, 18,21;621:9;623:17;627:2,7,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22; 497:23;522:20;539:18; 541:11;544:9;548:15; 555:12;570:11;571:1;582:2 610:10;614:14;616:21 onto (4)
nonuse (1) 431:1 normal (4) 538:25;561:18;571:17,20 normally (4) 532:11,15;563:13,22 north (52) 435:25;436:20,22;437:4; 438:15;439:9;441:9;455:21; 458:16;460:19;461:22; 472:13,15,23;474:14;476:7; 477:10;484:20;486:16,17; 487:21,23;488:10,22;489:6; 490:19;491:12,12;492:17, 25;494:5,9;495:20;496:1,6, 16;548:18;551:15,17,22; 552:15;587:14;590:8;591:4, 12,18,23;592:17;594:3; 605:7,9;632:1 northeast (9) 440:14;459:2;476:3,5,10; 589:2;630:6,15;632:15 northern (1) 461:24 northernmost (3)	426:15;457:4 objecting (1) 447:23 objection (8) 426:23;427:23;429:14; 444:2,17;445:20;447:24; 631:10 objections (6) 429:22;447:9,14;448:19; 449:3,12 obscure (1) 435:10 observation (2) 423:8;506:13 observations (1) 420:23 observe (5) 422:15;439:4;477:7,9; 592:25 observed (11) 426:2,2,3;431:15,24; 434:15;473:11;491:10; 494:16;499:21;555:12 obstructing (1) 543:24 obstruction (1) 483:12	520:22 office (6) 426:7;519:2;527:3;556:1; 630:1,9 Officer (146) 414:8,14;415:4,18,23; 427:2,20,24;429:22;432:5; 444:16;445:23;447:9,14,16, 19;448:13,16,18,22,25; 449:8,12,17;454:15;457:10; 460:21,24;461:2;462:23; 463:4;467:25;468:3;490:4,6, 11;498:1,3;500:6,11,14,23, 25;501:5,15,20;502:5,10; 503:22;505:15,24;508:2; 510:21,25;514:1;515:24; 516:5,7,11,16,19,21;517:1,8, 11,13,15,19,23;518:4,8,16, 20;519:15,19;524:11; 527:17,21,24;528:8,11,19, 24;537:7,11,13,14,19,23,25; 538:4;541:19,20;567:15,19; 580:7,10;585:10,12,14; 586:24;587:1,4;592:6; 595:23;597:19;599:12,16, 25;600:2,6,8,13,23;601:2; 602:16;604:2;612:11,13,16,	534:16;536:3,6,6;537:8; 540:1;542:1,19;548:14; 549:12,24;550:4,9,12,12; 554:6,10,11;555:12;560:24 561:12,18;567:2;573:20; 580:2;581:20;584:6;586:2,2 3,14;592:4;595:18,19; 597:14,22;600:3;601:24; 603:13,13,14;604:22; 606:21;609:6;611:6;612:5; 614:4,10;615:8,9,16;618:23 619:18;620:4;621:16,18; 624:16;628:21;629:4,16,25 636:16;637:2;639:9 ones (1) 449:5 one's (10) 475:7;548:7,8,10,11,25; 549:6,7,9;550:13 only (24) 429:11;452:3;455:25; 456:12,15;457:5;476:5; 478:13;494:16;496:20,22; 497:23;522:20;539:18; 541:11;544:9;548:15; 555:12;570:11;571:1;582:2 610:10;614:14;616:21

639:22	466:4	pages (2)	427:8;485:23;522:6;
open (10)	outside (2)	498:5;573:19	531:19;537:6,14;610:24;
440:6,7;475:23;487:22;	603:13;606:1	paid (2)	620:6;621:3;622:23;636:10
535:14,14;596:19,20;624:3;	over (50)	513:11,11	percent (1)
628:16	421:1;434:13;441:1;	pamphlet (1) 619:24	561:6
opened (5) 522:5,8;523:10;526:8,12	458:11;464:5;502:24; 503:12;504:10;505:7;	paper (5)	perception (1) 428:21
opening (1)	508:16,19;512:6;524:6;	421:6,11,13;422:24;	perfect (1)
578:25	532:12;547:22;555:16;	437:16	422:9
operation (1)	558:6,17;565:19;566:24;	paperwork (2)	perform (1)
515:18	572:5;577:11;581:6;587:20,	504:21;611:4	417:6
operational (3)	20;591:2,11;592:25;594:6,	paragraph (3)	performed (2)
523:10,11,12	13;596:9;598:10,20;599:3,7;	440:11;481:16;482:7	419:4;445:8
OPERATOR (1)	603:4,13;604:15;611:13;	paragraphs (1)	perhaps (2)
635:13	613:15;614:15;616:12;	452:16	460:6;497:13
opinion (17)	619:14;620:6;628:13;	parameters (1)	period (5)
418:12;423:18;440:23;	629:11,13;634:14;635:9;	471:9	430:24;431:1;449:11;
467:11;476:11,13,16;482:2;	637:3	parents (1)	526:16;599:10
531:5;560:1;565:14;576:7, 11;578:12,24;634:21;638:10	overall (1) 498:6	563:2	person (4) 479:19;503:5;515:7,7
opinions (1)	overflowing (2)	parents' (1) 563:3	perspective (1)
419:2	614:16;615:5	parsing (1)	542:3
opportunity (3)	overgrown (1)	442:15	phone (5)
449:20;451:16;518:25	545:6	part (16)	516:15;518:1,3;525:10;
opposed (3)	overlay (1)	431:3;435:7;468:14;	528:1
423:8;444:9;532:22	422:25	469:9;485:3;489:10;499:1;	photo (9)
order (3)	overlaying (1)	512:10;545:10;559:1;	423:1;558:20;562:6,10,16,
427:13;639:12,13	421:6	587:14;596:20,21;600:15;	20,21;584:22;585:1
original (4)	overlook (1)	608:24;632:17	photograph (5)
523:7;559:24;578:7;	624:14	participate (1)	421:7;543:1,4;628:13;
617:17	oversee (1)	501:23	629:8
originally (2) 488:13;619:17	537:22	participated (1) 639:6	photographs (1) 540:3
488:13;019:17 others (4)	overseeing (2) 537:17,20	particular (2)	photography (5)
444:15;480:9;541:23;	overtop (1)	478:12,21	420:20;422:14,15,18;
635:22	480:14	particularly (2)	426:8
otherwise (1)	overview (1)	445:17;465:10	photos (9)
464:4	490:17	parties (5)	421:1,8;444:20;470:23;
ours (2)	own (16)	444:17;505:18;518:24;	548:8;553:25;567:25;568:3
536:2,3	420:6,23;456:2;471:6;	639:4,14	584:7
out (95)	485:17,25;486:1;501:24;	partly (1)	phraseology (1)
434:7;436:5;457:1;461:9,	522:2;527:13;529:10,16;	451:21	488:1
16;470:18,21,22;480:13;	570:20;571:7;572:2;599:19	parts (1)	physical (8)
482:20,22;487:24;488:24;	owned (8)	469:2	468:19,23;469:2;479:24;
489:8;492:14;497:10;	520:9;522:3,7,11;524:4;	passed (1) 508:17	499:17;551:14;557:10;
498:20;509:12,14,14,16; 512:21;514:14;521:5;523:3;	527:14;529:24;614:6 ownership (2)	past (7)	638:16 physically (9)
528:9;530:3;531:7;533:17,	505:7;572:14	530:4;551:9;560:15;	423:21;446:17;447:1,3;
22,22;536:4;541:13;546:4,8;	303.7,372.11	564:21;618:9;620:14;629:12	470:8,19;488:9;539:22;
547:5,22;550:10;554:22;	P	pasture (2)	583:1
556:2;558:8,16,21;563:10,		530:7;614:22	pick (2)
14;566:3,4;575:18;577:16;	package (1)	pastures (1)	565:22,22
578:13,14;579:19;582:25;	468:17	530:5	picked (3)
583:12;584:9;590:6;592:7;	packed (1)	path (5)	438:21;439:8;461:11
593:12;596:16;598:20;	596:17	476:22;587:10;588:14;	picks (1)
600:3;601:14;602:7,9,23;	packs (1)	590:3;592:1	434:19
605:4;607:2,8;608:13;	533:3 PACE (23)	pattern (1)	picture (19)
609:21;610:2;611:2,3,7,8,9, 14;613:8;614:2,19,24;	PAGE (23) 414:4;419:8;424:2,2;	425:4	488:24;543:9,13;546:2,2, 5;557:24;558:7;560:17;
615:10,14,15,24;616:1,11,	425:8;438:2,2;451:1,2,2,3,3;	pause (5) 517:13;600:7,8;638:24,25	5,557:24,558:7,560:17; 561:20,584:1,8,585:18,20;
15;619:7;622:3;624:13;	453:10;477:23;478:24;	pay (1)	586:13;588:3;602:2;605:13
626:8;631:4;634:25;635:23	480:21,25;481:15;497:23;	620:25	619:3
outcome (1)	498:4;612:12,15,16	people (11)	pictures (8)
` /	, , , , - , - ~	• • · · · ·	•

535:8;554:4,7;557:19,20; 564:3;583:23;598:17	461:14;462:12,13;464:3; 472:4,24;474:22;476:1,12;	preparing (1) 420:25	problem (8) 457:11;475:9;481:8;
piece (1)	480:1;482:9,17,23;484:5,10,	present (5)	483:7;515:21;519:11;
529:13	15,16,17;486:13,18;487:2;	423:9;445:19;576:1;	528:10;621:12
piled (3)	488:2,4;498:22;505:8;513:1,	600:16;637:11	problems (1)
558:11;584:18;601:24	4;523:2;524:6;531:1;534:3,	presentation (6)	447:21
pinned (1) 544:18	5,10;538:17;539:17;540:8; 541:3;542:13,14,16,17;	415:9;501:3,17,19;516:12; 639:3	procedurally (1) 448:24
pinpoint (3)	544:21,22;550:7;551:10,10;	presenting (1)	procedure (1)
437:24;575:15;634:14	553:7,7;554:12,14,17;	501:8	615:3
pipe (1)	555:15;557:3;561:7,8,11,14,	president (3)	proceed (4)
461:15	17;563:20;567:9;583:21;	618:3,5;620:5	441:9;449:17;518:21;
pipeline (2)	587:11;594:21;605:3,5;	pressurized (1)	528:25
433:10,11 pivot (4)	610:18,19,19;611:5,6; 613:13,15;615:15,19,21,24;	617:3 presumably (1)	proceeding (5) 417:6;419:1;426:20;
547:23;555:16;616:19;	617:20;620:15,22;621:3;	464:6	427:18;467:20
617:2	629:14,21;633:12;634:1;	presume (1)	proceeds (4)
place (30)	635:19;636:24;637:2;638:1	434:4	461:15;475:20,23,25
429:1,17;436:20;446:2,4;	pointing (1)	pretty (20)	process (3)
470:18,19;476:5;490:23;	558:3	431:5;450:4;486:21,25;	438:18;479:21;496:25
499:6,10;502:23;506:18,23,	points (12)	494:19;517:2,4;524:22;	processes (1)
25;521:5;525:14;558:4; 577:5;579:22;580:1;610:23;	420:22;424:15;432:13; 455:14;457:15,22;459:20;	535:10;575:5;577:9;588:9, 10;589:5;591:15;605:10,14;	470:12
611:12;615:20,21;621:11;	484:5;493:8;495:16;628:8,	618:16;622:5;623:12	produced (1) 422:18
626:18;632:23;637:2,6	10	prevent (1)	profession (1)
placed (13)	poles (1)	435:22	416:7
421:13,14;425:14;455:20;	424:8	prevented (1)	profiles (1)
630:22;631:2,5;632:2,4,8;	ponds (1)	470:9	441:5
633:13,25;637:1	531:23	preventers (1)	programs (1)
places (11)	poor (2)	416:25	424:12
426:1;455:13;467:9; 477:12;497:4;544:8,9;	451:7;610:16 Porcupine (8)	previous (1) 543:13	pronounced (2) 474:10;477:17
603:22;604:18;629:20;	487:9,10,12,12,14;565:10;	previously (1)	properly (2)
635:23	566:14,23	450:6	437:20;564:14
placing (1)	portion (2)	primarily (1)	property (73)
633:21	550:23;555:19	421:21	418:5;431:4;439:23;
plain (1) 453:22	portraying (1) 542:4	Prior (12) 416:17;417:23;444:13;	499:6;503:16,17,24;509:5;
435:22 plan (3)	position (4)	448:1;451:8;463:18;545:25;	514:9,10,11,19,20,22;520:6 10,11,14,19;521:17;522:2,4
556:6;608:25;609:1	582:12,24;583:11,13	576:4,8;578:18,20;581:16	523:13,14;527:9,9;529:10,
plat (1)	possible (1)	priority (1)	14,24;536:19;549:3,5,17,23
630:2	438:19	478:9	550:1;551:5;552:23;553:3,
plates (1)	post (1)	private (8)	14;554:6;556:12,14,18,20,
512:4	527:3	416:11;417:4;489:13,14;	23;557:1;558:17,24;560:14
please (4) 500:18;506:8;529:3;604:8	pour (1) 484:8	573:7;574:22,25;577:1	563:3;566:11;572:5,10,17; 573:7,8;574:22,25;575:18;
plot (3)	power (1)	pro (1) 478:17	577:2;582:4;587:9;595:20;
484:7;495:16;549:23	424:8	probably (53)	597:2,8,10;602:14,18;
plugged (3)	practice (1)	424:1;436:8;438:22;	607:14;614:6,18;615:6;
538:22;539:2;615:12	499:19	454:3;456:19;465:20;	622:24
plumbed (1)	practices (1)	466:16;472:1;473:1;484:4,	proposed (1)
439:22	499:5	17,25;485:1;493:15;495:25;	418:3
plumbing (1) 461:7	pre-adjudication (1) 429:4	496:7;497:24;499:8;503:10; 507:4;510:10;511:12;	protect (1) 583:8
Plus (1)	pre-human (1)	512:21;517:2;522:5;527:8;	protest (2)
547:6	476:14	531:2,3,18;533:21;534:17;	617:17,17
POD (4)	preliminary (2)	535:4;536:20;547:1;550:5;	protestant (7)
441:23;445:2,2;452:8	639:12,13	553:22;556:16;559:22;	501:23;502:2;518:13;
point (106)	prepare (2)	563:5;565:20;571:9,22;	528:16;599:17;600:16,20
424:16;428:5,17,21,23; 429:4,5,20;430:7;438:21;	420:9,16 prepared (5)	586:13;589:14;590:20; 595:18;597:11;609:12;	Protestants (2) 415:14;449:20
444:12;446:5;449:11;	418:25;419:1;422:23;	614:14;621:5;630:22;632:9;	protestants' (1)
452:20;453:7,19,24;458:16;	453:18;601:10	634:15	498:7
, , , , ,	·		

protested (1)		459:5;461:24;467:9	recommendations (3)
583:4	Q	reaching (1)	442:8;468:12,15
protesters (1)	~	440:15	reconnaissance (1)
501:11	Q-R (1)	read (7)	466:14
protesting (1)	496:2	418:1,4;425:22;443:2;	record (31)
564:24	quad (11)	450:24;452:6;493:5	415:5;416:4;428:24;429:2,
provide (4)	454:12,19,23;455:1,4;	reading (5)	5,23;430:17;447:8,15;449:6,
424:9;502:11;562:23;	458:17,20,22;630:7,16;	417:23;424:22;451:2;	13,15;451:25;457:10;501:1;
601:3	633:10	452:11;574:7	514:8;516:7;517:24;525:8;
provided (2)	quadrant (2)	reads (1)	600:14;604:5;606:14,25;
417:25;431:11	421:17;460:8	617:24	612:10;624:12;631:17;
provision (2)	quaking (10)	ready (1) 567:17	634:20;639:5,9,11,18
478:20;483:13 proximity (1)	603:18,22,24;604:14;	real (4)	recorded (3) 424:23;469:4,22
556:22	606:1,3,8,9;625:20;626:1	544:10;569:12;599:23;	records (5)
public (1)	quarter (6)	623:11	424:11,20;428:12;452:21;
452:5	534:6;553:13;557:2,4;	realized (1)	485:20
pull (3)	630:5,6	492:7	Recross-Examination (2)
422:25;566:3,13	queried (2) 417:24;452:2	really (28)	414:10;598:1
pulled (6)	questionable (1)	436:15;466:14;467:1;	red (27)
452:3;470:18,21,22;546:4,	479:25	469:7;473:4,4;493:24;497:4,	433:1,15;435:10,13;
8	quick (6)	5;505:2;506:23;508:23;	459:19;460:17,17;461:25;
pulling (1)	466:13;497:19;569:12;	509:24;512:8,9;513:12,13,	463:9;473:19;491:17;
566:4	577:17;599:23;621:19	13;519:10;523:11;533:12;	492:19,20;587:11,16,17,18,
purchase (1)	quite (8)	560:1;565:10;601:14;603:2;	23;588:17,18;589:3,4,4,13,
529:22	436:22,24;484:6;498:13;	607:13;630:18;634:12	16;590:12;591:24
purchased (4)	515:3;522:11;549:16;617:23	reason (18)	Reddington (1)
520:19;529:9,18;534:15	quote (1)	421:20;423:13;440:10;	453:23
purple (1)	425:6	453:8;479:4,9,15,16;483:12;	Redirect (2)
612:1	quote/unquote (3)	526:23;539:18;544:15;	414:9;596:3
purports (1) 452:25	444:5;445:21;451:14	564:4,15;569:23;570:6; 579:15;632:21	reduce (1) 465:14
432.23			403.14
purpose (5)	D	reasoning (1)	re-equilibrate (1)
purpose (5) 424:9;443:24,25;452:18;	R	reasoning (1) - 445:16	re-equilibrate (1) 489:18
purpose (5) 424:9;443:24,25;452:18; 458:14		445:16	489:18
424:9;443:24,25;452:18;	rain (1)		
424:9;443:24,25;452:18; 458:14	rain (1) 581:5	445:16 reasons (1)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3)	rain (1) 581:5 rains (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4	rain (1) 581:5 rains (1) 581:4	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10;
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1)	rain (1) 581:5 rains (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8;	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5	rain (1) 581:5 rains (1) 581:4 raise (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1;	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17;	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14;	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5;	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16;
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11;	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24; 576:14;584:18;610:4;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1) 478:17 rather (7) 423:7;456:1,14;466:17;	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1 recognize (1)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1) 551:12
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24; 576:14;584:18;610:4; 612:21;617:9;620:21,24;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1) 478:17 rather (7) 423:7;456:1,14;466:17; 471:21;594:13;617:1	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1 recognize (1) 425:3	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1) 551:12 regime (3)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24; 576:14;584:18;610:4; 612:21;617:9;620:21,24; 622:1	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1) 478:17 rather (7) 423:7;456:1,14;466:17; 471:21;594:13;617:1 reach (3)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1 recognize (1) 425:3 recollection (4)	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1) 551:12 regime (3) 489:17,19,22
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24; 576:14;584:18;610:4; 612:21;617:9;620:21,24; 622:1 putting (4)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1) 478:17 rather (7) 423:7;456:1,14;466:17; 471:21;594:13;617:1 reach (3) 466:25;468:21;588:1	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1 recognize (1) 425:3 recollection (4) 455:24;456:2;485:12;	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1) 551:12 regime (3) 489:17,19,22 registered (2)
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24; 576:14;584:18;610:4; 612:21;617:9;620:21,24; 622:1 putting (4) 453:24;530:21;611:15;	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1) 478:17 rather (7) 423:7;456:1,14;466:17; 471:21;594:13;617:1 reach (3) 466:25;468:21;588:1 reached (3)	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1 recognize (1) 425:3 recollection (4) 455:24;456:2;485:12; 513:7	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1) 551:12 regime (3) 489:17,19,22 registered (2) 504:22;505:3
424:9;443:24,25;452:18; 458:14 purposefully (1) 470:6 purposes (3) 424:7;446:24;451:4 pursuant (1) 451:5 pursue (1) 467:1 push (2) 484:5;613:23 pushes (1) 433:9 pushing (2) 541:12;629:11 put (32) 449:5;451:20;454:23; 465:25;467:8;504:21;507:3; 509:20,23;534:16;535:6,24; 536:1,2;550:11;552:10; 558:4,16;563:10;565:15; 571:4;572:4;573:1;574:24; 576:14;584:18;610:4; 612:21;617:9;620:21,24; 622:1 putting (4)	rain (1) 581:5 rains (1) 581:4 raise (1) 553:1 raised (3) 447:10;538:11;613:2 ran (3) 493:6;522:7;535:25 Ranch (19) 415:15;502:3;504:3,17; 505:2,8,11,12,13;506:1,14; 508:7,15,20;522:7,7;524:4,5; 536:1 ranch-type (1) 504:7 range (1) 521:1 rata (1) 478:17 rather (7) 423:7;456:1,14;466:17; 471:21;594:13;617:1 reach (3) 466:25;468:21;588:1	445:16 reasons (1) 614:11 REBUTTAL (4) 414:17;627:18;631:11,13 recall (11) 455:22;456:15,17;472:8; 473:5;492:3,12;495:1; 497:14;520:22;629:16 receded (1) 476:23 recedes (1) 544:6 receive (1) 515:17 received (2) 511:24;515:15 recent (4) 480:6;489:22;540:5; 560:21 Recess (4) 500:24;517:14;600:11; 639:1 recognize (1) 425:3 recollection (4) 455:24;456:2;485:12;	489:18 refer (5) 536:7;557:23;566:9;604:6, 8 reference (4) 425:8;477:24;484:10; 631:22 referenced (2) 421:5;511:3 references (1) 419:9 referencing (1) 451:1 referred (4) 432:19;441:5;443:16; 462:1 referring (1) 514:25 reflect (1) 499:5 regarding (1) 474:4 regardless (1) 551:12 regime (3) 489:17,19,22 registered (2)

regular (1)
534:12 reinstated (2)
469:12,19
relating (2) 474:7,9
relation (3)
466:21;553:18;577:2
relationship (1) 504:4
relationships (3)
421:15;478:4,10
relative (2) 421:17;466:12
relevance (4)
426:18,23;429:14;449:7
relevant (6) 427:10,14,16;429:23;
444:15,22
rely (3)
423:7;456:1;625:10
relying (1) 471:5
remain (1)
523:10
remember (10) 432:17;477:5;521:11;
522:10,21;523:16;529:11;
539:9;576:15;624:9
remnant (3)
480:11;614:1,6 render (1)
465:7
reopened (2)
523:21;524:6 rep (1)
416:24
rephrase (1)
609:23 report (35)
418:2,4;419:7,8,13;
420:10,17;423:11;424:4;
425:20;427:5;431:3,16;
438:1;439:15;440:4;441:21 22;443:2,22;444:18;451:4,
20;465:4,24;466:22;468:10
490:24;493:5;497:15;498:5
568:21;592:10;628:11,25 reports (6)
418:19,22;448:7;450:11;
471:11;487:11
represent (2) 435:9;468:15
representation (4)
443:4;453:17;499:16;
556:11 representative (2)
511:4;537:16
representatives (1) 639:6
represented (11)
422:17;442:23;443:5;
451:25;452:18,19;453:4,6;

len	da McConnell
	469:5;492:19;493:22
	representing (1)
	515:8
	request (1) 419:2
	required (1)
	620:8
	requirement (1) 620:10
	research (1)
	578:13
	residual (2)
	476:6,17 resolution (1)
	421:8
	resolve (6)
	456:9,11,15;457:1,6,8
	Resource (2) 428:25;615:18
	resources (11)
	417:2,3;425:5;428:22;
	429:3,9,12;442:8;469:5; 557:23;565:18
	Resources' (2)
	428:12;478:25
	respect (1)
	468:7 responding (1)
	445:22
	response (3)
	450:8,25;451:3 responsive (1)
	450:17
	rest (3)
	452:17,24;486:12 restore (1)
	452:20
	result (6)
	451:7;465:18;470:11;
	478:7;481:23;482:1 results (1)
	465:23
	retrospect (1)
1,	438:21 return (1)
, 0;	492:17
5;	returned (1)
	591:25 review (10)
	420:16;425:18;443:21;
	445:1;451:12;453:22;
	496:19,25;497:7;634:20
	reviewed (3) 496:22;499:9;630:2
	reworking (1)
	476:21
	ridden (2) 532:16;533:4
	ride (6)
	485:12;532:8,11;533:2,5
	534:21

rider (1)

533:12

533:13
ridge (23)
463:9,9,15;473:24;474:8,
9,14,21;551:25;555:15;
594:18,19;603:17,19;604:7,
10;605:8,8,10;606:7;626:2,7
8
ridgeline (2)
473:20,24
riding (2)
456:17;566:19
right (236)
417:12;418:13;419:9,11, 14;422:13;424:14;427:11;
428:13;429:1,9,15;433:9;
435:17,18;436:21;441:15,
24;442:20,20;445:9;446:3,9
10,11,12,18;449:1,10;
450:10,13,15;452:23;457:12
23;460:17;464:7,8;467:15,
19;468:11,16,25;469:3,10,
15,20,21,22,23;475:8,8;
478:12,21;481:7,9;482:18;
484:11;486:6;487:3,8;488:5
490:12;493:10,16;496:12, 23;505:12;506:25;514:23;
516:25;519:16;520:4;
522:18;523:17,19;524:1,12;
525:5,20;526:13,22;530:14,
17,20;532:11;533:2;534:22
535:18,21,22;536:6,7,12;
537:3;538:4,9;539:12;
540:25;541:3;542:6,17,20;
545:18;548:7;549:1,2,7,9,14
551:2;552:25;553:4,13,14,
15,19,22,23;554:10;555:9;
556:2,14,17;557:15;558:17, 23;560:25;561:10,12;562:5,
20;564:7;567:9,17;568:3,6,9
12;569:18;570:8;571:10,22
25;572:3,24;573:7,20;574:9
575:9;577:13;579:14;
580:23;581:15;582:3,4,6,22
584:2,4,9,17;586:3,15,15,19
587:25;588:3;589:13;
591:15;596:8;597:6,7,8,12;
598:20,21,25;599:1;602:5,6
10,12,13,15,18,22;603:23; 605:16;607:14,15;608:4;
610:21;611:1,1,2,9,12,17;
612:3,6;613:10,11;614:12,
20;615:17,18,19,21;616:1,
23;617:18,21;618:19;619:7
12,23;620:4,6,7;621:1,18,24
624:3;626:10,16;629:3,7;
630:14,19,23;631:24;
632:10;634:6;637:3,5
rights (84)
419:16;424:17;427:7;
428:16,23;429:6;442:20; 443:6,12;444:14;446:13;
478:4,10,17;481:1;496:20,
. 7 0 . 1, 1 0, 1 7, 701 . 1, 7 7 0 . 20,

```
20,22,23;497:1,5,6,10,19,21;
  498:7,15,20;499:3,5,12,24;
  503:23;505:7;514:14;520:7,
  20,21,23;521:1,1,1;525:15,
  21,22;526:4,5,6;530:9,13;
  568:13,14,18;569:2,3,14,22;
  570:8,12,13;572:8;578:24;
  579:13;580:25;581:1,18;
  583:15;607:12;608:17;
  609:11,13,15,17,18,21;
  610:14,16;611:12;612:2,23;
  617:19;618:14;619:4,10
right's (1)
  614:11
riprapped (1)
  435:22
rise (3)
  477:14;552:8;559:11
River (2)
  416:21;622:22
rivulet (1)
  480:16
rivulets (1)
  635:23
road (14)
  455:19;485:10,11;592:12;
  593:17;596:8,24;597:1;
  605:7,8,21;607:8;611:17;
  616:1
roadway (1)
  630:19
roaming (2)
  483:22;484:13
Rob (11)
  432:1;448:24;459:10;
  514:6;549:18;550:14;
  551:22;552:15,24;603:9;
  629:5
robust (1)
  494:14
rocks (3)
  486:22;533:7,11
Rocky (2)
  416:10,14
rode (3)
  436:24;455:13;485:1
Roger (1)
  453:9
role (1)
  416:21
rolling (1)
  562:22
room (5)
  517:2;528:10;531:3;
  544:9;556:24
Rosalie (2)
  542:17;639:5
Rosalie's (10)
  535:23,25;542:7,21;
  544:11;566:5;582:2,3,7;
  606:22
rough (1)
```

613:16

roughly (2)	527:2	sent (2)	showing (9)
556:23;564:1	SCOTT (7)	489:25;569:24	484:2;496:5;561:21;562:7,
roughness (1)	414:17;500:16;568:21;	sentence (1)	10,14,21;588:6;630:13
465:21	627:17;628:5;633:5;636:24	451:10	shown (5)
round (1)	screw (1)	separate (1)	447:2;493:7;576:8;637:13,
421:11	433:6	616:12	14
route (1)	scroll (2)	separated (1)	shows (19)
540:8	552:20;553:20	549:17	423:1;436:23;437:12;
R-s (1)	season (5)	separates (1)	551:7;554:4,7;558:15;
504:14	541:16;568:5,8,24;569:2	637:8	560:16;575:10;603:20;
ruling (1)	seat (5)	separating (1)	604:13;605:13;611:6,13;
608:3	415:23;502:10;528:24;	637:23	628:13;630:4;631:23,25;
run (12)	601:3;604:3	sequential (1)	637:5
440:13;441:13;533:10;	second (11)	484:1	shrubs (1)
565:22;603:5,15,16;610:9,	440:11;453:12;469:17;	series (2)	430:22
10;616:15,18,18	478:13;546:13;549:20;	422:14;438:2	shut (13)
running (11)	580:5;600:3,4;621:18;	serpentine (1)	513:22;537:8,9;540:12;
472:7;494:5;540:14;548:6,	627:23	471:21	564:15,20;570:1,2;578:11;
7;554:4;562:12;564:3;	seconds (1)	serpentine-shaped (1)	579:15;607:11;609:25;622:
575:18;578:6;603:5	485:20	419:20	shuts (1)
runs (8)	secretary (1)	set (2)	507:19
423:5;512:22;543:13;	416:20	453:12;557:15	shutting (3)
597:4,6;598:19;603:6;	section (28)	setting (3)	562:5,7;569:25
616:16	437:18;445:2;452:8;	517:10;534:17;562:17	side (28)
	454:17,17;455:15;457:15;	seven (1)	434:21;436:25,25;464:10,
\mathbf{S}	458:23,23;459:4;463:12;	617:12	12,15,16;475:19;491:5;
	466:7,7,8;481:2,16;548:14;	several (7)	493:16,16,19;549:7,12;
sagebrush (8)	573:24;574:5,12,18;575:4;	432:12;436:6;520:10;	550:12;552:6,6;555:21;
423:3;521:23;594:19,20,	630:6,11,12,15;632:15;	521:22;617:7;618:4;619:25	561:4,10;562:9,10,17;
21;613:12,13,15	633:19	Shanna (14)	585:21;591:4;603:21;625:7
same (31)	sediment (1)	501:11;502:1;503:24;	629:8
427:23;455:8;457:24;	560:9	505:24;507:22;511:3;514:6;	side-by-side (4)
460:16;462:8;481:8,12;	seed (1)	532:6,17;534:15;540:13;	456:18;485:2,15,18
486:3;487:2,16;489:2,3;	416:23	564:19,22;570:24	sidehill (1)
498:19,19;512:6;527:3;	seeing (6)	Shanna's (3)	611:10
529:13;562:20;566:23;	516:14;542:2;548:8;	539:5;566:5;582:10	sides (2)
567:4;570:25;572:12;	557:13;629:16;639:10	shape (1)	606:7;607:22
575:14;579:5;596:5;604:15;	seek (1)	471:21	sideways (1)
611:12;631:24;635:20;	483:1	share (1)	592:16
636:4,15	seem (2)	501:12	sign (2)
satellite (1)	479:25;515:21	shared (1)	528:5,5
484:6	Seemed (2)	514:16	signed (1)
satisfy (1)	473:14;535:10	sharing (1)	453:9
446:12	seems (3)	478:17	significance (6) 424:5;442:18;478:1;
saw (13)	494:19;512:13;526:9	sheep (2)	
421:22,22;435:19,20; 455:23;456:4,14;457:2;	seepage (1) 558:7	637:22,25	489:16;633:18;635:3 significant (6)
		shin (1) 626:3	422:20;489:12;629:15;
470:4;491:8;625:25;626:2; 635:20	seeping (1) 610:13	shipped (1)	634:3;635:2,7
	self-eroded (1)	599:10	silt (1)
saying (25) 448:3,19;456:4,5;459:13;	435:24		590:21
496:7;501:16;525:23;526:5;		shop (1) 534:13	similar (1)
533:25;572:1;573:14;579:8;	sell (1) 523:14	short (6)	443:2
581:14;594:7;605:5,22;	send (4)	436:2;466:7;480:12;	single (2)
	452:12;507:4;557:18;	512:23;599:9;623:5	424:14,16
613:4;615:16;633:23,25; 634:2;636:15,25;638:2	432:12;307:4;337:18; 572:7	shorter (3)	sink (3)
034:2;030:15,25;038:2 scale (2)	sends (1)	512:14,14,14	440:14;512:1;532:17
	537:14	show (9)	sinking (1)
465:22;466:18	senior (3)	428:12;436:25;441:6;	607:4
scaled (1) 465:16	516:15;525:21;581:1		sinuous (1)
	sense (6)	487:2;546:1;562:7;568:25; 598:17;636:25	474:2
scanned (1) 452:4	567:7;570:9,10;601:14;	showed (2)	sister (2)
452:4 school (1)	608:12;621:24	568:20;639:7	504:6,10
SCHOOL (1)	000.12,021.24	500.20,039.7	504.0,10

sister's (1)	532:12;533:1	419:14,15;498:15,16,19;	419:17;463:6;545:5;
504:11	snowmobiler (1)	530:15;616:4,6	579:16,17;580:20;598:9,18;
sit (8)	532:7	sources (4)	599:1,6;602:23;607:21,24;
519:12,16;524:25;525:4;	snowmobilers (1)	441:15;471:12;616:25;	608:6,7,9,10,11;609:14,20;
534:23;601:17;612:23;	511:25	638:3	610:12;618:1;620:12;623:6;
618:12	snowmobiles (1)	south (13)	628:11,24
site (1)	533:6	459:20;477:16;486:15;	springs (47)
424:19	snowpack (2)	494:5;496:2,6,16;513:1;	418:11;419:7,18,19,22;
	512:15;563:20	514:19;630:5,14;632:1,14	
sitting (8) 525:1;558:11;561:3;			420:2,7,8;434:13;438:20,25;
	sod (2)	southeast (4)	439:8,10,11,21;440:4,13;
562:16;584:7,9;585:22;	494:14,15	475:18;630:5,15;632:14	441:15,16;459:14;460:11,
614:23	sold (2)	southwest (2)	22;461:2,11;464:2;466:21,
situation (2)	523:13,16	432:21;463:12	22,25;467:3,6,15;468:20;
446:11;492:4	solemnly (5)	span (1)	471:22;481:6,19;544:7;
six (3)	415:19;502:6;528:20;	512:7	546:24;555:8,20,21;566:24;
503:2;506:4;611:18	600:24;627:21	spatially (1)	590:7;591:13,16,18;598:5,12
size (5)	solid (11)	495:14	square (1)
425:3;486:25;531:12;	433:14;492:19;587:17,18,	speak (4)	434:10
533:23;626:12	23;588:17,18;589:3,4,16;	452:18;517:5,17;524:12	squares (1)
sized (1)	591:24	SPEAKER (12)	589:17
486:22	somebody (11)	431:22;497:25;498:2;	SRBA (8)
size-wise (1)	425:1;524:9;549:19;	500:18;516:24;552:24;	441:24;442:18,23;443:7,7;
531:24	550:3;552:10;565:19;	580:4,6;585:23;586:10;	444:21;454:1,6
Skip (1)	576:12;577:13;610:19;	600:5;612:17	S-shaped (1)
451:10	620:20;633:11	speaking (2)	599:7
slog (1)	somebody's (1)	563:21;592:7	S-T (1)
434:10	540:21	special (1)	496:1
slope (4)	somehow (3)	478:10	stand (6)
465:16;466:8,9,17	453:19;483:16;543:21	specific (1)	528:3,4;558:6;608:18;
slow (2)	someone (3)	441:21	617:23;621:6
473:10;545:8	424:21;565:14;630:11	specifically (2)	standing (12)
slowed (1)	someplace (1)	481:4;630:3	476:3;477:13;558:18;
545:7	484:7	specified (1)	560:25;561:1;562:18,19;
slow-moving (1)	sometime (2)	478:10	584:1,2,13,15,17
466:9	522:5;529:19	spell (2)	standpoint (2)
small (5)	Sometimes (5)	519:25;529:4	427:9,11
462:25;531:22;547:19;	484:5;618:15;626:7;	spend (2)	start (17)
609:18;614:11	633:22;639:14	418:5;458:16	419:6;449:19;460:7;
smaller (5)	somewhat (2)	spending (1)	480:21;490:14;498:4;509:3;
433:2;466:11;486:19,20;	484:19;544:12	430:8	519:2;544:11;587:5,5;
605:11	somewhere (6)	spent (2)	590:21;601:21;602:1;612:7,
Smart (1)	424:3,23;434:24;546:21;	416:23,24	24;620:11
600:5	621:14;632:11	spills (1)	started (8)
Smith (6)	son (2)	436:5	438:8;542:20,21,25;
502:2;504:2,17;505:2,8;	523:16;528:2	split (14)	565:19;588:24;619:17;
506:1	soon (2) 578:10;582:1	435:3,12;438:14;462:2,4, 8,12,21;463:14;464:3,12;	634:25
smooth (1)	1		starting (2)
547:8	sooner (1)	467:8;480:11;482:13	541:22;542:13
Snake (1)	639:16	spoken (1)	starts (4)
416:21	sorry (13)	498:12	431:20;463:10;569:3;
snakes (1)	432:1,7;459:10;473:12;	spot (8)	590:15
460:9	518:22;537:12,19;538:3;	466:9;490:23;545:13;	state (5)
snow (15)	580:7;589:8;606:11;622:2;	547:1;548:15;580:2;594:18;	416:3;504:22;505:3;
512:4;532:8,11,17;533:2,	623:10	631:6	519:25;529:3
4,7,16,21,22;566:18,19,21;	sort (11)	spots (1)	stated (5)
567:3,4	419:20;435:24;442:1,14;	466:4	450:6,22;451:4;454:10;
snowfall (3)	460:8,18;462:8;476:21;	spray (1)	466:22
511:23;532:15,21	495:17;552:10;626:3	554:8	statement (6)
snowfalls (1)	sound (2)	spread (1)	441:22;442:1;445:22;
532:4	450:13;556:2	488:24	451:6;501:24;599:19
Snowmelt (2)	sounds (1)	spreads (2)	statements (2)
	Sourius (1)	sprcaus (2)	Statements (2)
623:7,8	450:15	434:7;487:24	443:2;445:20

467:15	548:16;561:1,2,11,18,21;	submitted (2)	633:11,12,15
stating (1)	562:18,19,20;566:6;577:16,	451:9;557:22	surveying (1)
586:14	16,18;579:18,18;584:17;	subordinate (1)	634:7
status (1)	606:2,6;611:2	478:13	surveyor (1)
489:15	streambeds (4)	subordinates (1)	631:5
stay (6)	605:13,23;606:2;611:1	478:21	surveyors (4)
520:14;524:22;528:1;	streams (7)	substantial (1)	630:9,21;631:2,3
577:15,15;601:9	458:2;549:6,23;575:10,18;	434:21	suspect (2)
stayed (3)	585:8;632:13	substantially (1)	479:15;607:22
590:16;591:15;604:21	stream's (1)	503:13	sustain (1)
staying (3)	581:2	subtle (1)	444:2
541:13;627:12;629:23	stretch (1)	459:1	swear (2)
steadily (1)	472:9	successfully (1)	518:3;627:15
512:13	strike (1)	544:23	sworn (8)
Steel (1)	451:1	sufficient (1)	415:15;502:3;518:10,14;
416:5	strongly (1)	545:15	519:24;528:17;600:21;
steeper (1)	448:16	suggest (1)	627:19
459:5	Stroud (134)	499:18	system (13)
stem (1)	419:25;422:25;423:1,5;	suggested (2)	431:4,11;441:10;463:22;
448:4	434:25;436:9,20;437:2;	480:5;503:15	572:4;579:23,24,25;599:9;
step (2)	438:15;439:3;441:18;	suggesting (5)	618:3;619:14,19;621:3
434:18;600:3	443:13;446:21;459:14,21;	427:12,13;469:11,14,18	systems (2)
Steve (2)	462:10;463:19;464:5,7,20;	summarized (3)	620:5;632:4
623:25;627:6	469:8;474:12,23;475:17;	425:20;439:14;443:22	
STEVEN (6)	476:12,15,15;477:2,21;	summary (2)	\mathbf{T}
414:12;599:17;600:16,19,	478:14,15,23;479:4;480:4,	439:16;498:6	
20;625:20	20;481:10,23;482:20;	summer (6)	table (4)
stick (1)	487:23;488:17,18;491:14;	418:6;423:18;563:14;	447:18;519:13;541:23;
512:23	497:10;498:16,20;499:3,20,	609:24;622:7;623:14	568:23
still (19)	21,22;506:17;509:11,12;	supplied (1)	tables (1)
461:17,22;515:25;516:23;	520:7;521:6;522:15,19,25;	565:11	439:16
517:3;547:17;548:1;552:14;	523:4;530:17,24;531:14,16,	supplies (1)	tag (7)
558:25;563:22;564:8;	17,23,24;532:1,22;533:10,	480:25	423:25;424:3,6,19,25;
569:22;570:12;591:1;	16,18,22;534:4,7,7;535:19,	supply (2)	425:9;428:3
307.22,370.12,371.11,	10,10,22,00,7,7,000.10,	supply (2)	723.7,720.3
601:20;608:11;617:23,25;	20;536:9,11,11;539:23;	469:9;565:25	tags (3)
601:20;608:11;617:23,25;	20;536:9,11,11;539:23;	469:9;565:25	tags (3)
601:20;608:11;617:23,25; 637:11	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10;	469:9;565:25 supposed (5)	tags (3) 424:8,24;425:13
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15	tags (3) 424:8,24;425:13 tail (2)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3,	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1)	tags (3) 424:8,24;425:13 tail (2) 605:15,16
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14;	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1)	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3,	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23)	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5;	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9,
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12;	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19;	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21;	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,99,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2)	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21;	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19;	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9)	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12,
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1)	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2)	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2; 584:11;601:9;602:3;603:16;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14,	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3)	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2)	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2; 584:11;601:9;602:3;603:16;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24;	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15)	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2)	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2; 584:11;601:9;602:3;603:16; 607:11;609:5,6;619:24,24; 625:20;631:21;635:24 talking (27)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20;	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2; 584:11;601:9;602:3;603:16; 607:11;609:5,6;619:24,24; 625:20;631:21;635:24 talking (27) 427:19;429:14,16,25;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20; 562:3,7;581:4,6,11,12;	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5; 547:19;548:9,9;555:13;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6 surprising (1)	tags (3) 424:8,24;425:13 tail (2) 605:15,16 talk (27) 431:2;440:3;441:20; 448:25;452:7;459:7;464:25; 478:24;480:24;482:9; 491:23;504:4;509:9;587:9, 14;598:4;601:8;604:7; 607:20;608:19;609:3,6,6; 617:7;630:10;635:21;637:20 talked (33) 431:12;433:1;436:10,13; 442:9,9,10;455:20;471:12, 15;475:15;477:1;501:12; 530:20;548:24;551:13; 552:1;556:4;565:7,16;578:2; 584:11;601:9;602:3;603:16; 607:11;609:5,6;619:24,24; 625:20;631:21;635:24 talking (27) 427:19;429:14,16,25; 459:17;460:16;462:5;
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20; 562:3,7;581:4,6,11,12; 584:10;586:17;589:1,20,21,	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5; 547:19;548:9,9;555:13; 561:22;571:6;584:19;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6 surprising (1) 569:20	tags (3)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 store (1) 522:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20; 562:3,7;581:4,6,11,12; 584:10;586:17;589:1,20,21, 24;590:8,9;591:17;592:3;	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5; 547:19;548:9,9;555:13; 561:22;571:6;584:19; 592:10;593:15;596:13,18;	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6 surprising (1) 569:20 survey (5)	tags (3)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20; 562:3,7;581:4,6,11,12; 584:10;586:17;589:1,20,21, 24;590:8,9;591:17;592:3; 610:10;629:8,10;634:4	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5; 547:19;548:9,9;555:13; 561:22;571:6;584:19; 592:10;593:15;596:13,18; 601:22	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6 surprising (1) 569:20	tags (3)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20; 562:3,7;581:4,6,11,12; 584:10;586:17;589:1,20,21, 24;590:8,9;591:17;592:3; 610:10;629:8,10;634:4 streambed (24)	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5; 547:19;548:9,9;555:13; 561:22;571:6;584:19; 592:10;593:15;596:13,18; 601:22 subject (3)	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6 surprising (1) 569:20 survey (5) 421:17;630:10,20;633:7, 17	tags (3)
601:20;608:11;617:23,25; 637:11 stipulated (3) 417:11;448:11;541:24 stock (6) 610:3;611:11;615:14; 617:13;622:14,14 stop (1) 600:7 stopped (2) 538:24;545:11 straight (5) 419:19;523:6;558:19; 562:12;588:10 strange (1) 484:7 stream (38) 446:1,2,17;458:5;482:14, 16;488:7;489:18;534:21; 536:23;543:17,19,24; 545:16;548:8,11,18,20; 562:3,7;581:4,6,11,12; 584:10;586:17;589:1,20,21, 24;590:8,9;591:17;592:3; 610:10;629:8,10;634:4	20;536:9,11,11;539:23; 540:6;544:1;546:9,9;549:10; 550:7,22;551:5,18,24;552:5; 553:18;555:5;557:10;566:3, 8,9,9,18,21;567:3,6;577:6; 579:19;582:4,13,13,25; 583:12;584:12,25;585:4,4; 592:21;594:6;597:15;598:3, 11,22;602:4;603:13;605:1,2; 607:3;609:14,21;619:2,16; 628:14;630:3;632:17,19,23; 638:7 Stroud's (2) 561:15;579:18 structure (9) 426:4;435:17;440:2; 491:20;492:1,2,6,10,15 structures (1) 472:8 stuck (3) 425:1;546:7;590:24 stuff (15) 508:22;521:23;530:5; 547:19;548:9,9;555:13; 561:22;571:6;584:19; 592:10;593:15;596:13,18; 601:22	469:9;565:25 supposed (5) 607:16;611:8,11;615:9,15 supposedly (1) 603:12 Supreme (1) 634:21 sure (23) 442:6;449:24;462:5; 487:1;496:14,16;502:24,25; 523:13;524:14;540:19; 544:14;557:18;558:12; 571:4;580:18;608:24; 609:14;610:21;611:21; 626:23;635:20,25 surely (1) 426:21 surface (2) 441:11;467:1 surmising (1) 636:3 surprised (2) 448:20;570:6 surprising (1) 569:20 survey (5) 421:17;630:10,20;633:7,	tags (3)

Min-U-Script®

618:17;621:5;626:1;630:24	12,15;457:7,7;463:18;	T-intersection (1)	toward (2)
talks (1)	464:24;466:20;471:1;474:4;	485:5	574:24;591:25
481:17	476:25;478:11;490:24;	tiny (1)	towards (5)
tall (1)	492:3;494:1;499:17;502:6,	533:5	434:20;436:4;467:4;
626:15	11,14;510:5;518:17;521:13;	today (21)	474:14;476:10
tangled (2)	528:20;529:6;531:2;539:5;	417:6;429:19;437:12;	town (1)
577:4,9	542:13;556:8;572:25;573:4;	446:24;447:11;451:18;	527:2
tarp (1)	575:19,25;577:1;591:24;	468:8;552:14;556:13;	Township (1)
558:10	600:17,24;601:4,6;617:15;	575:20;601:8;602:21;	574:8
tarps (1)	618:3;627:22;628:6;631:11,	606:23;607:13;608:12;	trace (3)
561:22 task (2)	12,14;632:8,17;637:7;638:2 texts (1)	617:25;628:6;634:16; 637:11,16;638:18	426:8;437:8;494:3 traces (1)
418:11,15	564:21	together (16)	461:20
tasked (1)	Thanks (3)	485:19;493:12;520:25;	tracing (2)
468:24	507:21;513:25;627:11	523:2;533:24;534:8;548:1,	421:6;437:21
tasks (1)	theirs (1)	14,15;551:7,8;554:9,11;	track (3)
418:10	608:2	575:11;612:22;619:18	433:24;441:1;455:12
team (2)	theoretical (4)	told (5)	tracker (1)
468:14;531:18	426:10,12;471:2,4	439:5;527:5;534:15;	436:19
tearing (1)	therefore (1)	620:23;624:15	trackhoe (1)
489:1	521:2	Tom (1)	538:21
technical (2)	therein (1)	624:11	tracking (1)
427:9;442:3	521:2	TOMCHAK (31)	434:12
technically (1)	third (3)	414:4;503:3;514:17;	tracks (2)
550:5	451:2,3;482:7	516:15;517:17,21;518:1,5,6,	596:21,24
technology (1)	though (7)	12,14,23;519:17;520:1;	trail (3)
420:25	463:21;475:10;512:10;	524:18;525:7,13;527:11,21;	460:9;533:3,6
telephone (1) 451:24	583:1;594:16;595:12;623:14 thought (16)	528:12,15,17,19;529:5; 567:23;570:17;580:17;	training (2) 468:11,12
tells (1)	436:14;451:19;452:7;	587:8;589:16;599:13;638:14	transect (9)
610:10	455:24;457:12;465:11;	T-o-m-c-h-a-k (2)	493:6,9,13;494:4;495:12,
ten (9)	506:8;524:4;525:1;527:14;	520:1;529:5	18,23,24;496:14
416:19;508:16,17,23,25;	539:17;564:7;620:16;	Tomchaks (2)	transects (1)
509:9;510:18;522:6;526:11	625:25;626:2,18	501:7;516:13	495:13
tennis (4)	three (30)	Tomchaks' (2)	Transfer (54)
535:5;597:13;630:24,25	439:16;456:6,22;457:2;	514:10;619:6	415:6;417:17,18,23,25;
ten-year (1)	460:5;465:8;498:14,20;	tonight (1)	418:3;419:4;426:20,22,25;
512:7	503:13;509:25;510:10,10,19,	581:5	429:19;441:14,22;442:23;
term (2)	19;513:17,18,18;522:18;	took (19)	443:4;444:4,7;445:9,12;
442:5;454:2	540:13;554:24;564:1,1;	424:22;426:4,5,5;429:16;	446:13;450:8;451:5,8,9,13,
terms (4)	571:1;592:3,3;615:25;624:7,	438:3;508:16,19;545:25;	14,19,24;452:1,3,3,5,7,11,19
442:11;443:6;589:20;	9,23;632:5	546:6;564:2;577:21;584:7;	19,25;453:4,6,20;467:20;
612:22	three-quarters (1)	587:10;588:14;608:18;	468:7;483:13;496:21;497:7
testified (29) 415:16;427:8;444:10;	551:9 threw (1)	610:2;615:11;623:12	545:20;550:6;562:1;564:24 565:5;581:18;583:5,9;609:4
479:3;491:11,21;492:8;	536:5	top (12) 435:7;438:8;439:13;	transports (1)
502:3;515:14;518:14;	throw (2)	462:14;498:10;576:2;	560:4
528:17;532:6;541:9;549:9;	535:4;597:13	598:10;602:21,22;605:18,	travel (1)
550:9;564:20;569:25;570:1;	thrown (1)	21;609:11	614:2
576:15;581:20;596:12;	630:25	topo (2)	traveling (1)
600:21;622:23;627:19;	tied (2)	426:9;637:3	610:24
631:10;633:5;635:20;	424:11,20	topographic (6)	travels (3)
636:10;637:17	tight (3)	420:20;434:24;441:2;	485:6,14,16
testify (3)	538:22;539:2;596:17	465:17;476:2;477:18	traversing (1)
451:18;495:4;633:7	til (2)	topographical (3)	480:3
testifying (4)	536:1;624:17	637:8,13,14	Treasure (6)
456:13,14;527:25;556:13	Tim (3)	topography (10)	523:23,24,25;527:4,5,6
testimonies (2)	428:18;443:15,19	474:5,7,18,23,25;475:2,3,	Treasures (5)
548:23;602:20	times (13)	13;477:3;551:23	526:8,21,24,24;527:12
TESTIMONY (62)	476:14,15,17;499:22;	touch (2)	Treasure's (1)
414:4,12,13,17;415:19; 426:19;431:7;434:6;444:4;	500:4;531:6;615:25;617:8; 619:25;622:21;623:1;624:8,	597:14;602:12 touching (1)	523:22 trees (20)
450:19,22;452:20;456:2,3,	10	613:2	421:24;423:2,4;430:22;
730.17,44,734.40,430.4,3,	10	013.2	741.47,743.4,7,430.44,

439:25;472:7;532:10,12;
533:7;541:12;544:6;547:3,4;
554:18;577:12;588:2;590:5;
604:20;605:18,21
trench (1)
598:18
trends (1)
476:3
triangles (5)
434:1,2;492:23;493:2;
612:1
tributaries (2)
478:5;631:24
470.5,051.24
tributary (13)
418:14;438:20;440:15;
441:10,18;462:14,16;466:22,
25;467:16;531:13;546:9;
619:8
tried (1)
550:4
tromped (1)
420:4
trudging (1)
541:12
true (4)
544:14;557:15;583:6;
588:16
truncates (2)
478:14,22
truth (18)
415:20,20,21;502:7,7,8;
518:18,18,18;528:21,21,22;
600:25,25,25;627:23,23,24
try (6)
423:6;507:12;519:23;
555:18;601:8;622:4
trying (30)
429:19;438:6,24;439:2,12;
444:11;454:5;456:25;461:7,
9;483:5;489:18;495:1;
497:14;504:7;538:23;
549:14;557:17;558:12;
349.14,337.17,336.12,
561:25;575:22;579:7;
604:18;606:5,10;609:4;
610:7;619:9,14;626:8
Tuesday (1)
522:12
turn (14)
482:15;490:20;516:13;
487:15:490:70:516:13:
517:1;557:7;569:18;573:19;
517:1;557:7;569:18;573:19;
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2,
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9;
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14;
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15 turns (3)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15 turns (3) 461:23;476:8;603:6
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15 turns (3) 461:23;476:8;603:6 twice (2)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15 turns (3) 461:23;476:8;603:6 twice (2)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11) 492:14;502:19,19;507:9; 570:3,12;581:15;582:11,14; 588:25;590:15 turns (3) 461:23;476:8;603:6 twice (2) 563:10;571:14
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11)
517:1;557:7;569:18;573:19; 582:19;583:22;584:8;592:2, 16;599:16;604:4 turned (11)

```
445:16;452:8,14,15;456:5,
14;457:3;459:19;475:24,25;
477:4.18:490:25:491:7.8:
493:12,24;494:5,5;495:25;
498:15;513:17;515:12;
522:20;531:22;548:25;
549:6;553:18;555:22;
573:10,14;574:1;575:10,17;
576:14:578:17:585:21;
586:1,19;591:21;592:4;
595:5;597:12;601:25;
603:11;605:13;607:1;612:5;
637:9,16:638:4
507:10
448:9;465:11
           U
431:20;491:22;492:5,8;
535:25;624:11
492:3
446:4
465:25
```

type (1) typical (2) **Udy** (6) **Udy's (1)** unauthorized (1) uncertainty (1) under (3) 444:11;482:7;611:11 under-(1) 483:4 underneath (2) 558:8:561:5 understood (2) 420:12;523:23 undisturbed (1) 7. 441:7 undiverted (1) 467:10 **UNIDENTIFIED (12)** 431:22;497:25;498:2; 500:18;516:24;552:24; 580:4,6;585:23;586:10; 600:5;612:17 unique (2) 424:10,20 University (1) 9: 417:4 unknowingly (2) 564:12;581:19 unless (4) 533:11;550:3;552:10; 4; 639:8 unreasonable (1) 479:25 unsaid (1) 635:5

unusual (1)

447:22

417:24;422:25;427:5,15;

up (187)

452:3;459:25;461:11; 463:25;464:21,21;465:23; 474:13;484:1;485:4,10,11; 486:12;489:1;490:19; 491:19,20;492:2,25;494:2; 495:5;499:7;501:13,22; 503:3;506:14;508:4,19; 510:13;512:1,1,21;515:5; 517:1,5,10,17;519:12;520:7; 522:5,11,20;525:9;526:9,12; 527:6;531:19;532:15,17; 536:1;537:4,21;539:2;545:8, 21,25;546:6,20;547:3,4; 549:3,5,21;551:6,21;553:1, 14;556:14;557:17,22,24; 559:16;562:21;563:4,4,17; 564:6;565:22,23;566:14,15, 16,19;567:5;568:22;570:3; 572:20;573:12;575:2,5,23; 576:25;578:3,5,5,7,9,14; 580:17,23;581:15,23,24,25; 582:19,21,22,22;585:5; 587:13;588:21,23;589:17; 591:2,6,7,11,14,21,22,22,23; 593:23;595:11,14,15,17; 598:3;599:19;602:2,10,19, 22,23;604:5,19;605:18,21, 25;606:2;607:3,10,18,21; 608:6,11;609:11,13,23; 610:10;611:9,9;612:7; 613:12,12;615:10,11,12; 616:15,15;618:15;621:10,14, 18,20;623:15;625:19,19; 629:22;639:7 update (2) 505:5,5 updated (1) 499:12 upon (16) 422:11;440:21,23;446:4,5, 25;471:5;479:18;485:14; 502:17,18;503:9;530:11; 533:23;539:16;576:11 **upper (48)** 422:16,18;455:3;459:4; 532:22,23;551:10,11;552:16, 18;553:8,10;554:3;556:10, 15;557:14;558:25;559:2,3,5, 16;560:8,10,13,21;561:1,1,7; 562:15;565:11,21;566:2; 579:20;583:2,3,14;584:2,3,4, 20;605:5;610:19;612:4; 614:19,20;620:8;632:18.20 upstream (20) 438:19;477:17;481:10,13, 23;489:11;531:10;534:6; 543:12;546:8;547:10; 553:19;555:7,19;579:10; 580:20;586:3;614:21,21; 637:6

432:9;434:19;435:2;436:20; use (26) 438:1;439:8,10;440:6,7; 422:5;467:21;470:13; 444:14:446:1.6:448:10: 481:5:488:1:497:4:499:10: 513:9;515:20;521:3,5,8; 529:23;530:1;537:3;539:8, 14:562:24;563:1;568:5,8,24; 569:3;617:13;621:24;622:11 used (36) 420:20,21;422:4;423:21; 426:7;427:12,13,17;430:24; 432:14;521:18,21;522:1,3; 526:10;529:24;531:20; 535:10;538:18,19;539:3; 581:21;610:2,14;611:18,18, 19;615:24;622:14,16;624:5, 7,11,16,21;638:9 useful (1) 421:19 users (7) 481:1,4;511:18;539:7; 582:17;583:12;621:22 **USGS (8)** 420:19;422:4;454:23; 471:5,8,9;630:7;633:10 using (6) 441:2;523:20;538:24; 589:8,20;604:5 usually (5) 448:6;512:16;564:22; 566:25;623:8 utilizing (1) 421:1 \mathbf{V} vacated (1)

```
521:23
valley (3)
  493:20;496:5;619:15
varies (1)
  563:16
various (6)
  420:19;423:17;424:12;
  498:7;628:6;638:3
vary (1)
  530:11
vegetation (2)
  421:24;440:1
vehicle (1)
  485:17
velocity (1)
  458:6
venture (1)
  430:9
verbally (2)
  447:11;518:16
verifies (1)
  427:8
verify (1)
  444:12
verifying (1)
  427:4
```

versa (2)

532:19:550:7 versions (1) 456:23 versus (3) 566:18;632:22;634:19 vice (2) 532:19;550:7 vicinity (7) 441:1;457:24;470:20; 476:6;486:16;495:24;496:12 view (2) 483:21;487:19 visibly (1) 493:14 visit (3) 418:18;432:10;446:21 visited (2) 424:21;438:8 VOIR (1) 428:1

```
\mathbf{W}
wade (2)
  434:8,9
waders (5)
  541:5,10;577:10;590:18,
  20
waist (2)
  512:2;532:18
walk (27)
  433:24;472:2,3;484:23;
  485:2;507:1;541:10;543:2;
  544:7,24;545:9,10;546:9,20;
  547:20;548:1;551:18;
  554:12;558:6;577:16;587:9;
  590:17,25;591:19,20;
  592:25:595:11
walked (45)
  420:4;433:25;434:13;
  435:16:436:19.22.24.24:
  455:13;471:24;472:5;
  490:18;492:15;499:20;
  531:5;539:23;540:6,16;
  541:2;542:18,19,20;544:15,
  21;545:14;546:18;550:22;
  554:14,17,19;555:17;576:2;
  588:21,23,25;591:5,7,10,14;
  593:1,16;595:17,19;596:15;
  638:12
walking (10)
  420:6;440:23;502:20;
  533:20;545:2,12;546:14;
  590:22;591:1;595:3
wall (3)
  534:17;550:1;556:17
Warner (1)
  453:9
washed (1)
  604:20
watch (1)
  601:18
```

```
625:25
water (541)
  417:2,3,7;418:12,13,14;
  419:9,11;420:13;423:21;
  424:14,17;425:5;427:7;
  428:3,12,13,16,22;429:1,3,6,
  9,12,15;430:1;433:7,9;434:7,
  19;438:7,11;439:1,6,7,11;
  441:8,16,24;442:7,20,20;
  443:6,12;444:13;446:3,3,9,
  10,17;452:22;454:4;459:23;
  461:10,13,19,21;462:9,10,
  13,15;463:17,21,25;464:1,4,
  5,6,20,20;465:11;466:25;
  467:3,9,15,19;468:11,16,17,
  21,25;469:3,5,7,10,14,21,23;
  470:4,9,15;471:12,13;
  476:22;478:4,9,12,17,17,20,
  22,25;481:1,1,4;482:4,13,15,
  18;483:8,10;487:23,24;
  488:5,9,11,18;489:25;
  491:12,13,14;492:5,7,14,16,
  17;493:15;494:9,12,13,16,
  17;496:20,20,22,22,23;
  497:1,5,10,19,20;498:7,14,
  20;499:3,4,12;501:14;
  502:17,24,25;503:1,5,8,13,
  17,23;505:7,11;506:10;
  507:5,8,14;508:14;509:5,8,
  10,22,22,24,25;510:6,12;
  511:4,17;512:15,15,19;
  513:9,9,22;514:14;515:1,7,
  10,15,17;520:7,20;521:1,4,5;
  523:20;524:1,5;525:19,20,
  21,22;526:4;530:6,9,14,17;
  531:13;532:1,2,8,16;533:25;
  534:19;535:13,15;537:4,14,
  25;538:2,7,8,11,20,22,23,25;
  539:2,6,7;540:12,13,14,15,
  15,16,20,24;541:1;542:10,
  18;543:12,12,16,17;544:6;
  545:20;546:19,25;547:21;
  548:3,4,6;550:6,12;552:11;
  553:4,5,6,25;554:2,22,23,24;
  555:15,25,25;556:5,7,16;
  557:15,23;558:4,13,16,20,
  20;559:11,24,25;560:4,7,16;
  561:5,6,6,14,15,16,23;562:1,
  3,11,14,22,24;563:1,4,9,10,
  12,14,15,17,18,21,23,24;
  564:1,3,7,8,11,14,15,18,20;
  565:1,6,9,10,11,18,20,21,24;
  566:1,3,5,5,6,7,11,15,15,16,
  25;567:5,7,9;568:5,8,11,12,
  14,18;569:18,21,25;570:1,5,
  7,8,12,25;571:2,5,10,14,16;
  572:7,8;577:18;578:1,6,24;
  579:1,2,5,8,9,13,14,23;
  580:19,22,23,24,25,25;
  581:1,3,4,5,7,9,10,11,14,18,
  23,24,25,25;582:1,3,6,10,10,
  10,13,13,14,18,22,25;583:12,
  15,16,19;584:19,21,22,23;
```

```
588:22;589:22,25;590:2,3,
  16,18;591:21,21,22,25;
  592:14,17,17,22,23;593:1,
  11,16,18,21,25;594:2;595:9;
  598:9,15,15,20,22;599:2,6;
  602:3;603:1,3,4,21;604:19;
  605:13;606:22;607:2,5,16;
  608:1,17;609:10,13,14,15,
  17,18,21,22,25;610:1,3,9,12,
  14,16;611:11,17;612:1,22;
  613:8,23;614:5,11,12,13;
  615:5,14,18,24;616:3,4,13,
  19,21;617:1,8,8,10,12,13,18,
  19,20;618:14,19,24,24;
  619:2,2,3,4,6,10,19;620:15;
  621:21;622:9,15;624:3,13,
  24;625:2,6,9,9,10,13,16;
  628:13,14;629:9,11,12,15,
  17,22;632:24;635:2,7,9,21,
  22;636:1,4,11
watered (2)
  530:12;571:8
watering (2)
  554:7,8
Watermaster (15)
  431:20;447:4;471:11;
  479:1;507:11;512:17;
  513:21;521:10;534:20;
  556:3,4;564:17;609:8;
  624:12;626:24
watermasters (2)
  535:9;581:22
waters (2)
  481:18;482:20
water's (5)
  540:19;544:21;577:5;
  598:8;620:14
way (55)
  420:13;421:4,11;447:3;
  448:21,24;457:1,15,21;
  459:20;465:7;477:20;484:4,
  10:499:13:540:8:541:3.4.13:
  542:14,20,22;548:10;549:3,
  5,18;550:4;551:20;552:6,14,
  14,21;553:2,2;559:9;561:25;
  563:19;564:8;566:24;591:5,
  7,14;596:15;598:23;602:11;
  603:5,5;608:11;613:8;
  617:24,25;618:20;619:1;
  622:25;625:18
ways (3)
  448:14;600:9;617:22
website (2)
  417:24;452:2
weekend (2)
  524:6,7
weeks (4)
  509:25;510:10,11;563:23
weeping (2)
  561:5,17
weigh (2)
  427:21;444:17
```

```
433:15;491:1,2,5,17;
  502:21,21,22;509:21;
  534:11;535:6,19,23;540:25;
  542:6,8,9,10;543:9,10;
  544:20;553:4;555:19;
  558:18;560:12,19;581:6;
  585:18,20;586:4;628:14;
  629:13;635:9,11
weirs (7)
  435:9;491:1,7;521:25;
  540:24:557:19,21
weir's (1)
  585:19
Welcome (1)
  500:25
welding (1)
  534:13
well-defined (1)
  559:17
well-type (1)
  530:19
weren't (2)
  449:3:576:4
west (48)
  419:7,19,22;420:7;434:13,
  14,18;435:14;438:25;439:8,
  10,11,20;459:14;460:18,21;
  461:2,10,11;462:10,15;
  463:6,7;464:2;468:20;
  471:22;475:3,11,12,19;
  476:16;481:5,19;485:8;
  494:24;573:23;589:15;
  590:7:591:12.16.18:598:4.9.
  18;599:1;602:23;628:11,24
western (4)
  472:1,1;478:15,23
westernmost (2)
  475:24;637:4
wet (2)
  603:2;637:22
wetland (2)
  489:1;496:6
what's (31)
  419:25;422:11;431:25;
  437:23;439:14;447:1;478:1;
  483:7;484:13;489:12;
  491:16,23;504:11;510:15;
  512:6;531:7,14,16;532:25;
  534:10;558:14;560:11;
  599:4;601:14,18;607:6,10;
  609:10,11;621:24;637:14
whenever (2)
  525:18:565:8
Where's (3)
  531:8;553:17;554:22
white (3)
  455:10;573:23;575:6
Whittaker (51)
  415:15,15;417:5;425:25;
  431:3;436:14;455:20;456:4;
  457:2;459:19;460:2,6,10;
  461:16:464:1.10.11.21:
  472:14;475:15;477:11;
```

watching (1)

weir (34)

-	1	1	<u> </u>
485:2;490:19;491:1,2,13,23;	502:2,9,12;507:23;510:23;		
492:7;496:23;497:9,19;	514:2;516:3,6,10;518:5,7,13,	Y	\mathbf{Z}
499:4,4,6,24,25;503:10;	19;519:5,20;524:10;528:2,4,	1	L
506:18;511:14;545:25;	6,16,23;537:17,20,24;538:2;	woud (25)	Zoom (4)
574:25;577:5;579:22,25;	541:18;549:22;552:25;	yard (25)	552:24;602:7,9;634:11
587:10;607:14;618:12;	554:16;580:12;586:11;	432:20,21;439:9;459:19;	
629:10;632:22;634:19;	600:20;601:1;618:8;623:19,	461:13;463:20;474:22;	zooms (1) 490:21
637:21	21;627:4,13,18,25;628:16,	475:16,18;476:6;487:20,25;	490:21
Whittakers (18)	24;629:2,4,7;631:20;635:19;	488:11;490:19;491:2;492:7;	1
420:14;431:19;469:15,23;	638:23	498:24;499:24,25;514:22;	1
481:10;482:15;487:25;	witnesses (9)	542:7;587:13;611:10;	1 (0)
498:20;506:11;512:25;	429:25;516:9;518:9;	615:10,10	1 (9)
514:7;538:21;555:19;	592:13;595:17;599:14,15,	yards (4)	484:2,4,10;497:17;568:20;
582:18;608:1,7,9;610:8	24;628:7	438:12;527:8;536:20;	592:2,5;612:15;624:3
Whittakers' (18)	wonderful (2)	634:8	10 (6)
451:7;481:5;488:10;	510:4;519:23	year (56)	437:5;481:15;508:8;
496:22;497:1,5;499:12,23;	wondering (3)	416:23,24;443:9;500:4;	624:2;625:3;634:9
502:22;542:7;549:3,17,22;	462:7;540:15;569:17	509:19,24;510:6,8,9,12,16,	100 (3)
566:5;573:6;577:1;608:7;	wood (1)	17,18,19;512:3,3;513:8,16;	527:8;559:23;563:6
629:10	472:6	521:8;530:1;532:13,19,20;	100-plus (1)
	wooden (3)	538:20;540:9,10,10;541:16;	531:18
Whittaker's (8) 434:6;445:13;456:2,23;	433:5;472:8;535:7	552:4;555:18;563:16,21,22,	100-something-year-old (1)
	433:5;4/2:8;335:7 word (1)	23,25;564:2,2,15;567:1,2,3;	559:21
463:20;490:23;523:7;572:25	626:21	568:10;570:23;571:1,12,18,	100-year (1)
Whoa (1)		20;609:24;611:18;618:5;	565:8
602:12	words (6)	620:11,12;623:1,11;625:2,2	11 (11)
whole (22)	442:16;482:8;606:5;	years (64)	431:5;432:4,8,18;453:10;
415:20;426:16;502:7;	607:4;609:16,19	416:19;429:17;439:5;	459:17,18;460:19;471:20;
518:18;528:21;544:16;	work (12)	455:21;503:2,12;506:4;	490:21;587:6
545:22,23;548:10;549:15;	416:18;417:6;422:3,24;	508:8,11,13,14,16,17,23,25;	11/15 (1)
552:8;554:7,9;563:18;	485:23,24;534:21;536:3;	509:9;510:13;512:1,8,9,10;	569:16
566:13;567:2;570:4;581:17;	618:21;621:22,23,25	513:14,14;520:5,10;521:22;	115 (1)
596:16;600:25;627:23;	worked (3)	522:1,6;526:11,19;530:11;	494:11
631:21	416:14;442:7;454:4	531:18;532:7;535:9;536:1;	11th (3)
whose (4)	working (4)	545:7;547:2;552:3,9,14;	568:3,3;569:7
607:21,24;608:10,11	479:17;498:4;504:20;	559:23;563:5;565:19;	12 (8)
wide (3)	625:18	566:20,20;572:5;576:13,14,	487:15;488:22;489:6,7;
433:6;465:25;544:8	works (3)	20;581:24;589:14;596:13;	563:5;628:12,23;635:1
wider (1)	479:14;552:7;613:12	601:19;611:18;613:15;	120 (1)
434:19	worry (3)	614:14;615:4,11;617:11,12;	626:20
width (1)	517:9,12;533:8	618:4,21;624:18,19	13 (3)
556:24	worse (2)	yell (1)	488:19;510:13;563:5
wife (3)	554:23,24	528:9	14 (2)
546:6;557:17;584:7	worst (1)	yellow (5)	489:2,3
willows (15)	510:19	435:8;459:19;461:24;	15 (11)
433:17,21;476:7;490:20;	worthwhile (1)	589:17;591:22	426:14;427:6;430:19;
544:13;546:15;588:1;598:9,	430:9	YENTER (19)	489:4,5,9;509:18;541:10;
24;605:16,19,22,23;606:23;	wrap (1)	415:2;440:9,22;456:5;	569:8;612:17,18
638:5	545:24	457:2;463:6;479:13;517:9,	15.2 (2)
winter (2)	write (1)	12,20,22;519:12,16;600:7,	566:2;581:24
532:9;620:18	475:5	10,12;618:6;635:16;638:24	150 (1)
wintertime (6)	written (4)	Yep (8)	589:14
533:2;567:25;615:12,14;	449:4;450:7,16;487:11	516:6;538:4;541:20;	151 (15)
623:3,5	wrong (5)	568:12;588:5;590:13;	419:3;441:21;447:7;
within (6)	452:11;465:22;500:20;	602:16;629:4	449:14,16;450:16,21;455:6;
430:1;447:11;546:25;	506:8;611:7	yesterday (19)	477:23;478:24;480:21;
576:13;582:8;639:12	W-shaped (1)	415:8;431:8,19;441:4;	481:15;573:18;592:5,6
without (4)	460:8	449:6;475:16;476:25;	151-153 (1)
441:17;445:12;479:16,17	*7	478:11,19;501:13;502:16;	414:24
witness (65)	X	511:16;552:1;556:9;572:24;	152 (6)
415:10,14,22;431:23;	T. (2)	617:6;618:2;619:25;628:5	418:19;440:4;449:14;
445:24;459:11;460:23;	Xs (3)	younger (1)	450:7,11;466:21
461:1,4;468:1;479:14;490:8;	435:9;591:21,22	524:23	15201 (1)
500:16,20,22;501:16,25;			622:19
	I .	I .	I .

			April 22, 2021
153 (21)	459:9;477:11;483:19,25;	454:17;455:15;457:15;	414:24
418:19;419:6;425:8;432:5,	484:12,15,15;490:15;573:19,	458:23;508:13;561:20;	45 (1)
6,7;447:8;449:14,16;450:7,	20;574:15;575:5;577:2;	573:24;574:5,12,18;575:4;	639:12
12;459:8,9,12;464:25;	581:5;590:21	630:6,12,15;632:15	4th (4)
471:19;474:5;483:18;587:6;	20 (10)	300 (1)	522:8,12;524:7;526:12
629:1,2	445:2;452:8;454:17;	472:2	
154 (8)	458:23;493:7,8,12,14;	301 (4)	5
457:17,20;462:17;473:21;	509:18;573:19	541:22;542:5,6;543:15	
551:12;574:14;575:4;577:3	2006 (2)	302 (2)	5 (4)
157 (1)	417:9;497:3	543:6,18	438:2;486:2,24;531:10
496:23	2008 (1)	303 (2)	50 (1)
15th (4)	626:20	544:3,4	508:10
569:5,9,11,19	2009 (2)	304 (8)	500 (1)
16 (1)	510:5,8	545:18,19;546:2;557:9,12,	435:25
574:8	2010 (1)	14,25;558:2	50-year (1)
160 (2)	416:16	305 (2)	565:8
602:21,23	2012 (1)	558:14,15	5223 (1)
16th (1)	510:12	306 (2)	416:5
569:7	2014 (11)	560:11,12	54 (3)
17 (3)	428:19;443:10;511:4;	307 (3)	437:22;441:6;632:12
440:8;450:12;451:1	512:11,12;513:7;515:1;	560:18,19;585:18	567 (1)
		308 (5)	2 2
170 (2)	538:9;539:3,6;562:25		414:5
570:21,22	2014/'15 (1)	560:23,24;562:19,21;	580 (1)
1831 (1)	506:4	583:23	414:6
614:4	2015 (1)	308's (1)	585 (1)
1880s (1)	513:9	560:24	414:7
478:18	2016 (1)	309 (7)	587 (1)
1882 (1)	513:9	561:8,9;562:10;585:21,25;	414:8
565:9	2019 (1)	586:1,19	596 (1)
1884 (3)	423:1	30-plus (1)	414:9
630:1;631:2;634:15	2020 (11)	508:14	598 (1)
			2 2
1911 (2)	417:7;418:6,18;450:12,12;	31 (1)	414:10
477:24;478:3	455:13;465:24;479:1;499:8;	463:12	
1920 (1)	622:6,12	310 (2)	6
617:20	20th (1)	561:19,20	
1954 (8)	450:12	311 (1)	6 (1)
420:18,24;437:8;460:3;	20-year (1)	562:8	478:24
			4/0.24
473:18;487:5;631:7,20	565:8		
473:18;487:5;631:7,20 1960s/early (1)	565:8	311's (1)	60 (1)
1960s/early (1)	565:8 21 (5)	311's (1) 562:9	60 (1) 571:9
1960s/early (1) 573:1	565:8 21 (5) 450:17;493:8,9,13,22	311's (1) 562:9 312 (2)	60 (1) 571:9 601 (1)
1960s/early (1) 573:1 1970s (1)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3)	311's (1) 562:9 312 (2) 562:13,14	60 (1) 571:9 601 (1) 414:13
1960s/early (1) 573:1 1970s (1) 572:18	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10	311's (1) 562:9 312 (2) 562:13,14 367 (1)	60 (1) 571:9 601 (1) 414:13 604 (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18;	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11,	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18;	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11,	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7;	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8;	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8;	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12 1997 (1)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11) 424:2;425:8;435:25;	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1) 536:20	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2) 630:20;633:6
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12 1997 (1) 479:12	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11) 424:2;425:8;435:25; 477:12,23;483:25;484:12,	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1) 536:20 40-foot (1)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2) 630:20;633:6 6th (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12 1997 (1)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11) 424:2;425:8;435:25; 477:12,23;483:25;484:12, 16;541:11;592:6;604:4	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1) 536:20 40-foot (1) 458:25	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2) 630:20;633:6
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12 1997 (1) 479:12	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11) 424:2;425:8;435:25; 477:12,23;483:25;484:12, 16;541:11;592:6;604:4 3/15 (1)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1) 536:20 40-foot (1) 458:25 42-221.08 (2)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2) 630:20;633:6 6th (1) 479:1
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12 1997 (1) 479:12 2 2 (19)	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11) 424:2;425:8;435:25; 477:12,23;483:25;484:12, 16;541:11;592:6;604:4 3/15 (1) 569:16	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1) 536:20 40-foot (1) 458:25 42-221.08 (2) 444:11;451:6	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2) 630:20;633:6 6th (1)
1960s/early (1) 573:1 1970s (1) 572:18 1977 (11) 520:12;521:10,17;523:18; 526:11;529:10,13;572:11, 18;576:1,4 1985 (1) 422:18 1986 (1) 444:19 1987 (3) 442:25;445:3;468:16 1991 (2) 529:19;572:15 1996 (2) 417:2;479:12 1997 (1) 479:12	565:8 21 (5) 450:17;493:8,9,13,22 22 (3) 495:9,9,10 23 (2) 422:6;463:2 24 (2) 422:6;454:10 26th (1) 450:17 27 (1) 463:2 2P (6) 502:2;504:3,17;505:2,8; 506:1 3 3 (11) 424:2;425:8;435:25; 477:12,23;483:25;484:12, 16;541:11;592:6;604:4 3/15 (1)	311's (1) 562:9 312 (2) 562:13,14 367 (1) 478:21 3rd (1) 569:5 4 4 (6) 435:25;531:10;535:7; 541:11;619:23,24 4.4 (2) 499:23;500:2 40 (5) 508:10;552:3,14;637:18, 18 400 (1) 536:20 40-foot (1) 458:25 42-221.08 (2)	60 (1) 571:9 601 (1) 414:13 604 (1) 414:14 60s (1) 632:3 623 (1) 414:15 628 (1) 414:18 633 (1) 414:19 639 (1) 414:20 65 (7) 530:10;570:19;571:18,19, 23,24,25 6531 (2) 630:20;633:6 6th (1) 479:1

```
7(1)
  487:2
70(1)
  571:9
70s (3)
  572:21;573:2;632:3
74-15201 (2)
  615:24;624:4
74-157 (8)
  419:9;445:13;446:11,15;
  467:15;481:7;498:10;499:16
74-1831 (2)
  612:24;625:15
74-949 (2)
  614:3;625:12
74Z (2)
  506:3;578:1
77 (2)
  526:16,19
              8
8 (2)
  480:21;625:3
80s (1)
  526:15
82 (1)
  520:5
8441 (1)
  452:3
84441 (5)
  415:6;417:18;451:9;452:1,
              9
9(1)
  480:25
949 (1)
  615:7
95 (1)
  561:6
9th (2)
  557:16;568:4
```

1	REPORTER'S CERTIFICATE
2	
3	I, JEFF LaMAR, CSR No. 640, Certified Shorthand
4	Reporter, certify:
5	That the audio recording of the proceedings were
6	transcribed by me or under my direction.
7	That the foregoing is a true and correct
8	transcription of all testimony given, to the best of my
9	ability.
10	I further certify that I am not a relative or
11	employee of any attorney or party, nor am I financially
12	interested in the action.
13	IN WITNESS WHEREOF, I set my hand and seal this
14	6th day of January.
15	
16	
17	
18	A A A A A A A A A A A A A A A A A A A
19	OTARL
20	Plusic
21	JEFF LaMAR, CSR NO. 640
22	Notary Public
23	Post Office Box 2636
24	Boise, Idaho 83701-2636
25	My commission expires December 30, 2023