



APPLICATION FOR PERMIT TO CONSTRUCT OR MODIFY A LOW-FLOW (<50 GPM) HEAT PUMP INJECTION WELL (5A7 ONLY)

IDAHO DEPARTMENT OF WATER RESOURCES

322 East Front St., PO Box 83720, Boise, ID 83720-0098 Under the Provisions of Title 42, Chapter 39 of the Idaho Code

I.	GEN	EKAL	.INF(JKMA	I ION

	Application Type:					
	☐ New Injection☐ Permit to Mo			t (A Drilling Permit is on Well	also required pric	or to construc
-	Legal Owner:					
	Name					
	Organization Na	me				
	Mailing Address					
	City			State Phone No. 2	Zip Code _	
	Phone No. 1			Phone No. 2		
	**If the property	will change	ownership	soon, provide conta	ct information for f	uture owner:
).	Well Location:					
	Facility Name _					
	Address					
	City			State	_ Zip Code _	
	County	·····		Facility Phone No.		
	Provide one of t	he following	two option	ns:		
	1) 000 ! ::	(D)	\\(\(\)\(\)			
	1) GPS Locatio			1 20 1		
	Latitude			Longitude		
	(You can ch	eck the acci	uracy of yo	ur GPS data with the	"Well Diller's Loca	ator Tool" her
	•			default.aspx)		
	o) A 11000 T			1 4 51 41 111		
		• .	•	photo with the well l	ocation marked ar	nd lownship,
	Range, Sect	ion informat	ion.			
	Township	Range	Section	1/4, 1/4, 1/4 Section	½, ¼ Section	½ Section
	(Get free ma	ps using thi	s tool: http	o://maps.idwr.idaho.g	ov/IrrigationRights	sFinder)
	W II 6 d					
).	Well Operation:					
	Frequency of Ini	ection:	Continuou	s (24 hr/day, 7 day/w	yk) □ Int	termittent
	- 1			, , ,	,	
	Maximum Avera	an Maakky	Doto		☐ cfs	□ gpm

E. We	ell Construction Infor	mation: (Attach well log, if available)		
	☐ As Built	☐ Expected Construction ☐ Well Modification		
	Total Well Depth:	(ft)		
	Well Casing:	Diameter (in) Depth (ft)		
		Ht. above Ground Surface (ft) Casing Type		
	Perforation:	From (ft) To (ft)		
	Surface Seal:	Depth (ft) Seal Type		
		dicate Actual, Approximate or Anticipated):		
		s describe purpose and intended changes:		
F. A	djacent Features:			
F. A	ljacent Features:			
	Depth to Groundwater (ft) Estimate Measured Date Measured			
	Distance to Nearest I	Domestic Well (ft) Direction		
\ <i>\\</i>	USAGE INFORM	ATION		
A.		n from your heat pump contractor that indicates how many gallons pe will use during peak heating and cooling days.		
B.	What is the approxim	ate square footage of the structure served by the heat pump?		
C.	Please check all of y	our domestic uses served by your groundwater well:		
□н	ousehold \Box	Irrigation (≤ ½ acre) ☐ Livestock		
□н	eat Pump	Other		
	s your total domestic g nce on page 5)	roundwater usage? Gallons Per Da		
	u connected to a city ounity drinking water sy			
Do you heat p	u have a water right fo ump?	the		
	ou applied for a water heat pump?	right ☐ Yes ☐ No Water Right Application#		

III. CONDITIONS OF APPROVAL

- This injection well is administered under IDAPA 37.03.03, Rules and Regulations for the Construction and Use of Injection Wells, and IDAPA 37.03.09, Well Construction Standards & Rules.
- 2. The facility owner and operator bear sole responsibility to mitigate for harm or degradation resulting from the injection activities authorized in this permit.
- 3. Violating the water quality standards stated in IDAPA 37.03.03.040, degrading the quality of the groundwater, or impacting a beneficial use of groundwater resources through the use of this injection well is prohibited and is cause for cancellation of this permit.
- 4. In the event that existing or future points of diversion for beneficial use are suspected by IDWR of being contaminated by injection activities at this well, IDWR will require that injection activities at this well cease immediately. Burden of proof that injection activities at this well are not contaminating existing or future points of diversion is the responsibility of the injection well owner.
- 5. Approval of this permit does not authorize diversion or beneficial use of water. This permit is not a Water Right nor does approval of this permit guarantee the approval of any Water Right being sought for this well.
- 6. The system must be closed to the surface to prevent contamination of the injectate. A protected air vent may be installed if needed, and a sampling port is required.
- 7. The injectate entering this well must be restricted to heat exchange unit return water. Prior approval from the IDWR UIC Program is required for the use of additives.
- 8. Discharge water from the heat exchange unit into the well is recommended to be delivered via a drop pipe that terminates below the static water level in the well. Seasonal fluctuations in groundwater levels should be considered when determining the depth of the drop pipe to insure that the outflow end is submerged at all times. A pitless adaptor should be used to create a watertight seal between the drop pipe and conductance pipe delivering water to the well to prevent contamination of the discharge water.
- 9. The temperature of injected water must be maintained below 85° F. If the injectate temperature exceeds 85° F, the Department of Water Resources must be notified within 48 hours of the increased injectate temperature.
- If at any time use of this injection well is not desired, the owner/operator must contact the IDWR UIC Program to obtain approval prior to decommissioning activities commence.
- 11. A well log must be submitted to IDWR within thirty (30) days of the construction of new injection wells.

IV. SIGNATURE OF LEGAL OWNER

I certify under penalty of law that there are no discharges of hazardous substances or other fluids in amounts that may endanger an underground source of drinking water from the injection well(s) identified on this application form.

I have read and understand the Conditions of Approval for the operation of this injection well. Additionally, I certify under penalty of law that this document and all attachments were prepared under my direction or

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supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

	be complete and accurate. Incomplet bmitted is subject to verification by ID	
Date Si	gnature	Title
Print Name		
V. PROCESSING FEE		
	pe submitted for each permit application for each injection well. Make check	on. A separate permit application and ks payable to: Idaho Department of
		orms will be returned to applicant. The Applications and fees can be submitted
IDWR Northern Region 7600 N Mineral Dr., Suite 100 Coeur d'Alene, ID 83815 Ph: (208) 762-2800	IDWR Southern Region 650 Addison Ave., Suite 500 Twin Falls, ID 83301 Ph: (208) 736-3033	IDWR Eastern Region 900 North Skyline Idaho Falls, ID 83402 Ph: (208) 525-7161
IDWR Western Region 2735 Airport Way Boise, ID 83705 Ph: (208) 334-2190	IDWR State Office 322 East Front St., PO Box 8372 Boise, ID 83720-0098 Ph: (208) 287-4800.	0
VI. IDWR APPROVAL (to b	e completed by IDWR personnel)	
This permit will be administered Water Resources.	n accordance with Idaho law and app	licable rules of the Idaho Department of
Date thisday of		_



UIC Program Guidance For Calculating Total Domestic Water Use For Permitting a Ground-Source Heat Pump

Idaho Code (42-111 & 42-227) defines domestic water use and states that a water right is not required for domestic use, provided that the volume of water does not exceed 13,000 gallons per day. When permitting an injection well for a ground-source heat pump, the UIC Program must determine if the use of a heat pump will cause a homeowner to exceed the 13,000 gallon per day limit for a domestic water right exemption. If domestic water use is anticipated to exceed 13,000 gallons per day, the applicant must obtain a water right before the injection well permit can be issued by IDWR.

The following table should be completed to document your calculation of total domestic water use for Section II of your injection well application.

Use	Gallons Per Day Per Person		Number of People		Total Gallons Used Per Day
Single Family Residence	75	Х		=	
Luxury Residence	150	Х		=	
Use	Gallons Per Day Per Animal		Number of Animals		
Cattle	12	X		=	
Dairy Cattle	35	Х		=	
Horses	12	Х		=	
Mules	12	Х		=	
Hogs	4	Х		=	
Goats	2	Х		=	
Sheep	2	Х		=	
Other Livestock	_	Х		=	
Use	Gallons Per Day Per 100 Animals		Number of Animals		
Chickens	10	Х		=	
Turkeys	18	Х		=	
Other Poultry		Х		=	
Use	Gallons Per Day Per 1 Acre at 9 gpm		Number of Acres		
Irrigation	12,960	Х		=	
Use	Average Weekly Injection Rate (gpm)		Minutes Per Day		
Heat Pump		Х	1440	=	
Other Uses	Gallons Per Day				
	То	tal Ga	allons Per Day U	Jsed	