## Mike Aardema

**400"**

| Target Well | Year | KWHr | AF |
|---|---|---|---|
| 11S 21E 14 SENENE | 2008 | 1,091,520 | 845 |
| A0005219 | 2007 | 1,107,600 | 858 |
| | 2006 | 928,560 | 719 |
| | 2005 | 1,059,840 | 864 |
| | 2004 | 589,200 | 481 |
| | 2003 | 513,000 | 418 |
| | 2002 | 673,080 | 549 |
| | avg. | 1,046,880 | 822 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1557 | 173 |

| Target Well | Year | KWHr | AF |
|---|---|---|---|
| 11S 21E 23 NENESW | 2008 | 405,160 | 300 |
| A0005263 | 2007 | 167,600 | 124 |
| | 2006 | 393,120 | 291 |
| | 2005 | 152,760 | 119 |
| | 2004 | 235,680 | 184 |
| | 2003 | 197,160 | 154 |
| | 2002 | 163,520 | 127 |
| | avg. | 279,660 | 209 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1355 | 151 |

Comment: Averaged from 2005-2008 when Mike bought the farm.
Past practice is to supplement this well with water from other wells to keep the pivot operating.
No increase of KWHr on other wells on the farm is allowable.
May change from A0005219 to A000517 a difference of 25 hp more. Check in spring.

Plan: Remove the above wells from production. Each well waters 2-130 acre pivots; 400" total.

Recharge: Well located at N 2502366, E 1251929, is great for recharge. Mainline is within 50 feet.

| | hp |
|---|---|
| A0005263 | 400 |
| A0005219 | 400 |
| A0005217 | 425 |

## Alliance Land & Livestock

100"

| 1st Target Well | Year | KWHr | AF |
|---|---|---|---|
| 11S 22E 36 NENWSE | 2008 | 37,000 | 38 |
| A0005277 | 2007 | 95,600 | 97 |
| | 2006 | 39,520 | 40 |
| | 2005 | 53,720 | 55 |
| | 2004 | 241,560 | 210 |
| | 2003 | 254,040 | 221 |
| | 2002 | 83,040 | 60 |
| | avg. | 114,926 | 103 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1188 | 132 |

Comment: No increase of KWHr on other wells on the farm is allowable.

Plan: Remove the 1st well from production.

Recharge:

260 hp (from 2008 IPCO records)

## Wayne Anderson

**200"**

| Target Well | Year | KWHr | AF |
|---|---|---|---|
| 11S 21E 26 NWSESE | 2008 | 468,960 | 310 |
| A0005265 | 2007 | 4,240 | 0 |
| | 2006 | 105,360 | 54 |
| | 2005 | 139,160 | 71 |
| | 2004 | 1,520 | 0 |
| | 2003 | 105,240 | 53 |
| | 2002 | 223,120 | 113 |
| | 2001 | 253,600 | 129 |
| | avg. | 162,650 | 91 |

| Target Well | Year | KWHr | AF |
|---|---|---|---|
| 11S 21E 25 NWNESE | 2008 | 714,720 | 506 |
| A0005260 | 2007 | 690,080 | 462 |
| | 2006 | 441,200 | 315 |
| | 2005 | 7,360 | 5 |
| | 2004 | 692,880 | 480 |
| | 2003 | 753,600 | 535 |
| | 2002 | 759,840 | 464 |
| | 2001 | 552,080 | 337 |
| | avg. | 576,470 | 388 |

11S 21E 26 SESE

| | GPM | Inches | KW |
|---|---|---|---|
| Highest GPM with booster | 1,165 | 129 | 240 |
| Highest GPM without booster | 915 | 102 | 187 |

11S 21E 25 NWNESE

| GPM | Inches | KW |
|---|---|---|
| 1,775 | 197 | 309 |
| 1,217 | 135 | 243 |

| Target Well | Year | KWHr | AF |
|---|---|---|---|
| 11S 21E 25 NENENE | 2008 | 137,320 | 124 |
| | 2007 | 133,640 | 132 |
| | 2006 | 75,640 | 75 |
| | 2005 | 116,520 | 115 |
| | 2004 | 42,240 | 40 |
| | 2003 | 83,440 | 78 |
| | 2002 | 85,120 | 80 |
| | 2001 | 85,640 | 74 |
| | avg. | 94,945 | 90 |

11S 21E 25 NENENE

| GPM | Inches |
|---|---|
| 301 | 33 |

Comment: Total reduction is approximately 152" averaging 569 AF.
Any months with the higher KW on the wells will not be given credit.
No increase of KWHr on other wells on the farm is allowable.

Plan: Take boosters from 11S 21E 26 SESE and 11S 21E 25 SENE out of service.
Take well 11S 21E 25 NENENE out of service.

Recharge: Abandoned well near white house north of shop.
Abandoned well near pumping well 11S 21E 26 SESE.

| | hp | | |
|---|---|---|---|
| A0005259 | 75 | | |
| A0005260 | 100 | booster | 300 main |
| A0005265 | 60 | booster | 250 main |

## Beck Farms 250"

| 1st Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 10 SENW | 2008 | 647,640 | 569 |
| A0005114 | 2007 | 681,360 | 599 |
| | 2006 | 617,640 | 608 |
| | 2005 | 539,040 | 531 |
| | 2004 | 494,040 | 487 |
| | 2003 | 652,920 | 534 |
| | 2002 | 545,760 | 548 |
| | avg. | 596,914 | 554 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1140 | 127 |

| 2nd Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 09 SWSWNW | 2008 | 378,480 | 224 |
| A0006944 | 2007 | 220,560 | 119 |
| | 2006 | 191,440 | 126 |
| | 2005 | 286,080 | 188 |
| | 2004 | 229,690 | 150 |
| | 2003 | 364,640 | 242 |
| | 2002 | 474,240 | 314 |
| | avg. | 306,447 | 195 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 796 | 88 |

| 3rd Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 8 SWSWSW | 2008 | 647,640 | 569 |
| A0006941 | 2007 | 681,360 | 599 |
| | 2006 | 617,640 | 608 |
| | 2005 | 539,040 | 531 |
| | 2004 | 494,040 | 487 |
| | 2003 | 652,920 | 534 |
| | 2002 | 545,760 | 548 |
| | avg. | 596,914 | 554 |

| | Highest GPM | Inches |
|---|---|---|
| Booster on | 2175 | 242 |
| Booster off | 1451 | 161 |
| Difference | 724 | 80 |

Comment: 1st and 2nd well off equals 215". Both wells plus the booster off on 3rd well equals 295".
No increase of KWHr on other wells on the farm is allowable.

Plan: Remove the 1st and 2nd wells from production and remove the booster from the 3rd well if necessary.

Recharge: Well located at 12S 21E 0920, is great for recharge.

| | hp | | |
|---|---|---|---|
| A0005114 | 300 | | |
| A0006944 | 350 | | |
| A0006941 | 125 | 500 main | (subtracted main hp from that listed on IPCO records 2008) |

## Cranney Farms/Cranney Ranch/Baker

**500"**

| 1st Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 15 NWNE | 2008 | 140,160 | 139 |
| A0005112 | 2007 | 104,480 | 104 |
| | 2006 | 0 | 0 |
| | 2005 | 62,720 | 49 |
| | 2004 | 127,920 | 127 |
| | 2003 | 612,000 | 442 |
| | 2002 | 643,040 | 464 |
| | avg. | 241,474 | 189 |

| | GPM | Inches | |
|---|---|---|---|
| Highest GPM | 1282 | 142 | 7/11/2001 |
| Since 2004 | 1161 | 129 | 5/18/2004 |

| 2nd Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 14 NWSWSW | 2008 | 324,240 | 305 |
| A0005115 | 2007 | 380,520 | 358 |
| | 2006 | 438,480 | 358 |
| | 2005 | 464,280 | 368 |
| | 2004 | 338,640 | 262 |
| | 2003 | 594,960 | 293 |
| | 2002 | 627,000 | 348 |
| | avg. | 452,589 | 327 |

| | GPM | Inches | |
|---|---|---|---|
| Highest GPM | 1225 | 136 | 8/8/2007 |

| 3rd Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 24 SWSWSW | 2008 | 754,080 | 853 |
| A0006859 | 2007 | 1,045,440 | 1,182 |
| | 2006 | 658,080 | 744 |
| | 2005 | 912,120 | 778 |
| | 2004 | 1,143,840 | 975 |
| | 2003 | 1,376,400 | 1,204 |
| | 2002 | 1,587,000 | 1,452 |
| | avg. | 1,068,137 | 1,027 |

| | GPM | Inches | |
|---|---|---|---|
| Highest GPM | 1982 | 220 | 8/3/2006 |

| 4th Target Well | Year | KWHr | AF |
|---|---|---|---|
| | 2008 | BOOSTER ONLY | |
| | 2007 | 850 S 1235 W | |
| | 2006 | No Meas. on Boostser only. | |
| | 2005 | | |
| | 2004 | | |
| | 2003 | | |
| | 2002 | | |
| | avg. | | |

Comment: No increase of KWHr on other wells on the farm is allowable.
Re-measure target wells in 2010 to ensure pump discharge and alter plan accordingly.

Plan: Turn off target wells 1,2 &3 completely. Check difference on booster to reduce total inches.

| | | Latitude | Longitude |
|---|---|---|---|
| Recharge: | Wayne Anderson Well | 42.434597 | -113.956039 |
| | Beck Well | 42.389583 | -113.991347 |
| | Cranney OI-11 Well | 42.384869 | -114.000453 |
| | Cranney OI-10 Well | 42.373925 | -114.000642 |
| | Cranney OI-7 Well | 42.384622 | -113.981253 |
| | Cranney OI-5 Well | 42.381083 | -113.976117 |
| | Adams Well | 42.373919 | -113.931053 |

## Hepworth Family Landholdings, LLC **100"**

| Target Well | Year | KWHr | AF (using lowest PCC of 773) |
|---|---|---|---|
| 12S 21E 12 SWNW | 2008 | 208,000 | 269 |
| A0005135 | 2007 | 200,560 | 259 |
| | 2006 | 134,680 | 174 |
| | 2005 | 179,160 | 232 |
| | 2004 | 59,320 | 77 |
| | 2003 | 197,480 | 255 |
| | 2002 | 259,240 | 335 |
| | 2001 | 369,320 | 478 |
| | avg. | 200,970 | 260 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 545 | 61 |

Comment: Past practice is to supplement this well with water from other wells to keep the pivot operating.
No increase of KWHr on other wells on the farm is allowable.

Plan: Turn off well 12S 21E 12 SWNW. Well averages AF for 1-130 acre pivot. That is equivalent to 100"
but pumped at a lower volume for a longer time.

Recharge: Abandoned well near white house north of shop.
Abandoned well near pumping well 11S 21E 26 SESE.

200hp

## Patterson Farms/Beukers Farms 400"

| 1st Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 22 NESE | 2008 | 936,080 | 699 |
| A0006870 | 2007 | 796,640 | 595 |
| | 2006 | 771,280 | 629 |
| | 2005 | 986,640 | 805 |
| | 2004 | 1,077,440 | 879 |
| | 2003 | 850,080 | 694 |
| | 2002 | 526,720 | 347 |
| | avg. | 849,269 | 664 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1429 | 159 |

| 2nd Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 31 SE | 2008 | 286,920 | 494 |
| A0006887 | 2007 | 88,360 | 152 |
| | 2006 | 267,520 | |
| | 2005 | 290,040 | 500 |
| | 2004 | 56,320 | 97 |
| | 2003 | 610,220 | 1,052 |
| | 2002 | 0 | |
| | avg. | 228,483 | 459 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1923 | 214 |

Comment: Total off planned is 372" out of 400".
No increase of KWHr on other wells on the farm is allowable.

Plan: Remove the 1st and 2nd wells from production.

Recharge: Recharge wells A0006879 and A0006885.

## Pickett Ranch and Sheep Company **100"**

| Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 04 NWSESE | 2008 | 499,638 | 363 |
| WMIS #900123 | 2007 | 436,640 | 317 |
| | 2006 | 468,920 | 348 |
| | 2005 | 335,560 | 249 |
| | 2004 | 428,440 | 318 |
| | 2003 | 378,600 | 281 |
| | 2002 | 404,360 | 300 |
| | 2001 | 527,440 | 393 |
| | | 434,950 | 321 |

Target 217,475 KWHr

| | | GPM | Inches |
|---|---|---|---|
| Highest gpm | 2002-2008 | 610 | 68 |
| | 2001-2002 | 842 | 94 |

Comments: This well operates 2 pivots at 850 gpm each. Past practices has been to alternate crop because the well can run only 1 pivot at a time.
Plan is to place all 100" here and drop the total KWHr by the appropriate amount.

Plan: Total KWHr per year should be 1/2 of annual average use. Half average annual pumping is 217,475 KWHr.

275 hp

## Skyline Dairy

250"

| 1st Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 12 SESESW | 2008 | 708,000 | 563 |
| A0005134 | 2007 | 581,200 | 501 |
| Well #7 | 2006 | 493,280 | 425 |
| | 2005 | 264,880 | 228 |
| | 2004 | 425,520 | 367 |
| | 2003 | 625,200 | 557 |
| | 2002 | 609,440 | 543 |
| | avg. | 529,646 | 455 |

| 2nd Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 24 SWSWSW | This is a new well drilled in 2009 replacing | | |
| A0006859 | an abandoned well. | | |
| Well #11 | Well will be valved back 100 inches. | | |
| | Variable speed to make up the remaining 100 inches. | | |
| | Well will be equipped with a meter. | | |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1214 | 135 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1982 | 220 |

Comment: No increase of KWHr on other wells on the farm is allowable.
Well will be metered with total AF of entire farm equalling approximately 500 AF less than previous years.

Plan: Remove the 1st well from production.

Recharge:

200 hp 100hp relift

## Wybenga Dairy

**200"**

| 1st Target Well | Year | KWHr | AF |
|---|---|---|---|
| 12S 21E 27 NESENE | 2008 | 1,386,120 | 880 |
| A0006871 | 2007 | 919,440 | 620 |
| | 2006 | 379,800 | 256 |
| | 2005 | 644,880 | 435 |
| | 2004 | 519,120 | 355 |
| | 2003 | 688,560 | 470 |
| | 2002 | 639,000 | 436 |
| | avg. | 739,560 | 493 |

| | GPM | Inches |
|---|---|---|
| Highest GPM | 1673 | 186 |

Comment: No increase of KWHr on other wells on the farm is allowable.

Plan: Remove the above well from production.

Recharge:

400 hp