

RECEIVED

NOV 26 2013

Department of Water Resources
Eastern RegionSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of IdahoIdent. No. 15- 73731. Name of applicant(s) Thomas or Marcene Williams Phone 208-766-2682
Name connector (check one): ☐ and ☒ or ☐ and/orMailing address: 2643 West Samaria Road City MaladState ID Zip 83252 Email: _____2. Source of water supply Ground Water which is a tributary of _____

3. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
15S	35E	25			SW	NE	Oneida	Ground Water	

4. Water will be used for the following purposes:

Amount 2.51 cfs for Irrigation purposes from 4/1 to 10/31 (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)5. Total quantity to be appropriated is (a) 2.51 cfs cubic feet per second (cfs) and/or (b) _____ acre-feet per year (af).

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. Ground water well & pump will be used to deliver water to a center pivot and wheel lines.

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11.

For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ Noc. Proposed well diameter is 16 inches inches; proposed depth of well is 300-400 feet.d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☐ Noe. If well is already drilled, when? _____; drilling firm _____;
Well was drilled for (well owner) _____; Drilling Permit No. _____

7. Description of proposed uses (if irrigation only, go to item 8):

a. Hydropower; show total feet of head and proposed capacity in kW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; show name of municipality or the applicant's qualifications as a municipal provider. _____

d. Domestic; show number of households _____

e. Other; describe fully. _____

15- 7373

8. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S	35E	25	31	36	29	14	3			26	26					16			181
15S	36E	30						4											4

Total number of acres to be irrigated: 185

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? The fields north of the road are covered by shares in Samaria Irrigation Co. The center pivot (south of the road) is not currently covered by any water rights.

10. a. Who owns the property at the point of diversion? Applicants
b. Who owns the land to be irrigated or place of use? Applicants
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____
11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. We would like to install a center pivot and wheel lines to better irrigate our property.

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).
13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Thomas C Williams
Signature of Applicant

Thomas Williams
Print Name (and title, if applicable)

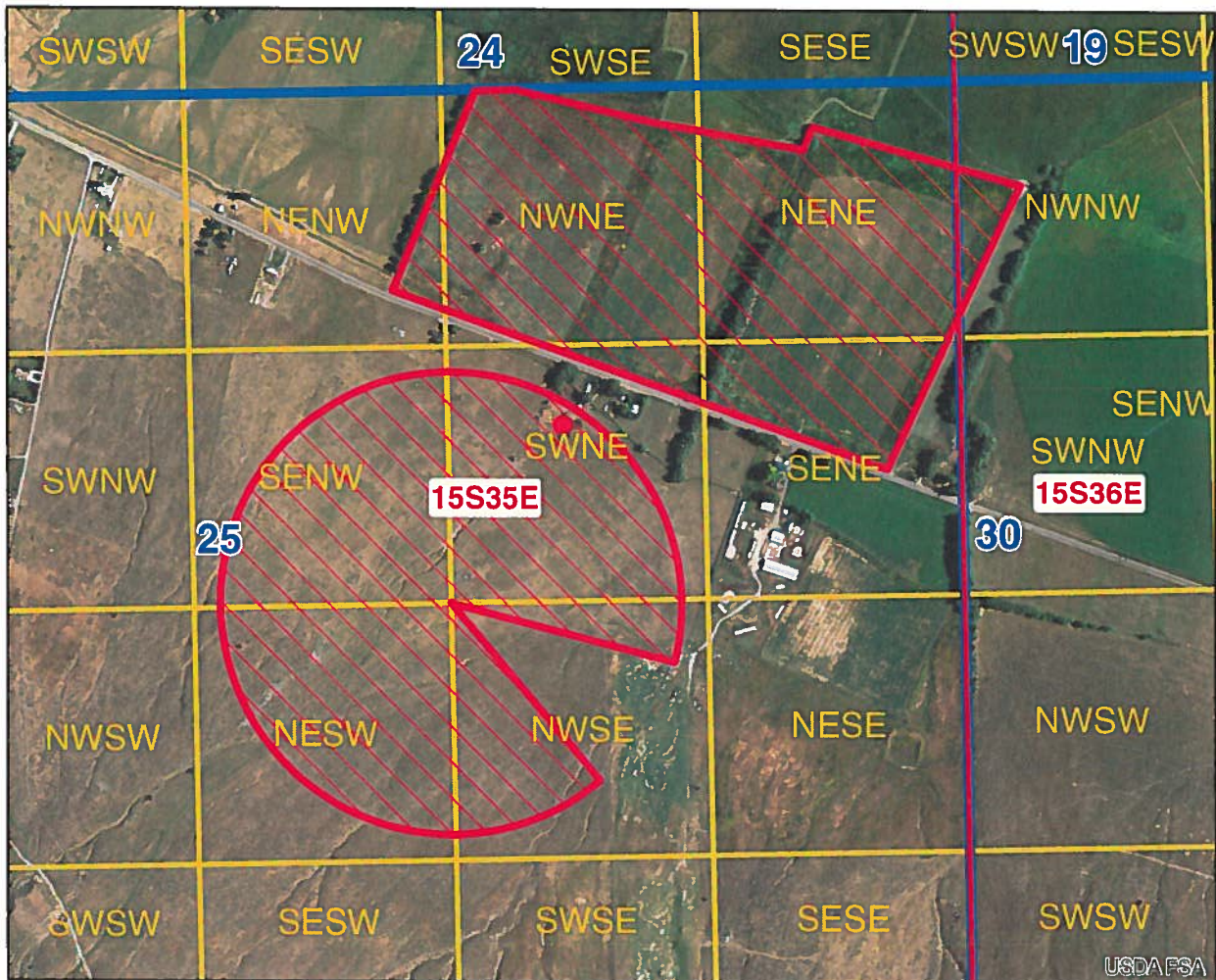
Marcene Williams
Signature of Applicant

MARCENE Williams
Print Name (and title, if applicable)

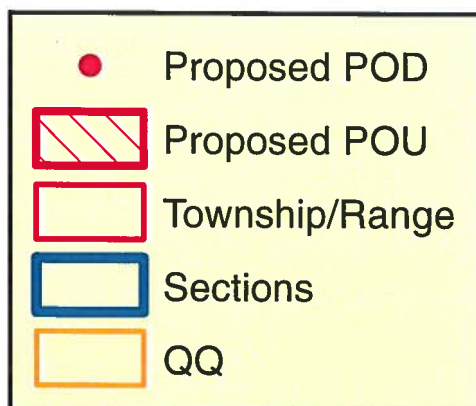
For Department Use:

Received by JRC Date 11/26/13 Time 2pm Preliminary check by _____
Fee \$ 330.00 Receipted by SB Receipt No. 6039349 Date 12/4/13

Application for Permit (Williams)



2011 Aerial Photography





November 19, 2013

Mr. James Cefalo
Idaho Department of Water Resources
900 North Skyline Drive, Suite A
Idaho Falls, ID 83402-1718

RE: AQUIFER TEST FOR WILLIAMS WATER RIGHTS APPLICATION

Dear Mr. Cefalo:

A groundwater impact assessment is provided in this letter report for the Thomas and Marcene Williams Water Right Application. They have a farm south of Samaria, Idaho (Figure 1), which requires a new well to obtain an additional 1122 gpm or 100 inches of water. For this impact analysis I used pumping test and specific capacity data for estimating aquifer parameters. A computer simulation was used to predict the potential impacts to neighboring wells within $\frac{1}{2}$ mile of the proposed point of diversion (POD). The results of the computer analysis show that the proposed diversion rate will have a minimal on neighboring wells.

Nearby Water Rights

An evaluation was made for water rights within $\frac{1}{2}$ mile radius of the proposed well location. Figure 2 shows a circle of $\frac{1}{2}$ mile radius centered on the proposed Williams well location. The circle encompasses portions of sections 24 and 25, T15S, R35E. A search of the IDWR on-line data base for nearby Points of Diversion (POD) indicates that there are three surface water diversions in Section 24 and four surface water and one ground water rights in Section 25. The results of the water right POD search are provided in Table 1.

A search was performed of the IDWR drillers' log database for wells within $\frac{1}{2}$ mile of the proposed well location. Ten wells were found as listed in Table 2 and plotted in Figure 2 (most locations are based on quarter-quarter sections therefore the locations are approximate). Copies of the well logs are provided in Attachment 1. The average depth of the wells is 220.7 ft and the average depth to water is 121 ft. However, the location of one of the wells is suspect (No. 10, Mark Peterson). This well, because of its great depth and depth to static, may be driving the average well depth and depth to water higher than actual, but there is not an easy way to resolve the location listed on the log and in the data base. The average flow rate for the wells is relatively low at 19.2 gpm probably because most of the wells are domestic wells.

Geology

The lithology in this area is a series of unconsolidated clays, gravels and sands. Near land surface, most wells penetrate layers of clay from 20 to 60 ft thick. Below this most wells report a none water bearing gravel with clay. At depths of about 100 ft the gravel becomes cleaner and water bearing. For wells that are drilled deeper, often limestone is reported, that can be fractured and water bearing. Because of the clay layer above the water bearing gravels, it appears that the aquifer is confined locally. None of the well logs indicate a shallow unconfined aquifer, although nearby springs suggest that water may be flowing near land surface laterally in sand



and gravel stringers and then discharging where the sand and gravel layers intersect land surface. The data are insufficient to resolve the supply pathways for individual springs and streams. However, the average depth to static water of greater than 100 feet suggests isolation between the aquifer tapped by the ten wells in the area and the shallow run off systems supplying water to springs and streams.

There is not a marker layer or geologic unit that can be correlated between wells based on descriptions on the well logs. The inability to correlate geologic layers is consistent with the area being situated in a cut and fill sequence of the Malad River. It is further complicated by waxing and waning cycles of Lake Bonneville. Lake Bonneville was an ancient inland lake having water levels that rose and fell in response to climate changes, thus the beach of the lake migrated back and forth across this location in the geologic past. During high stands of lake levels, fine clay layers were deposited. During times of low lake levels the ancestral Malad River deposited coarse grained gravels, which were eroded from the surrounding mountains. For the purposes of this investigation it is assumed that the aquifer thickness is 200 ft. This is based on driller logs for nearby deep irrigations wells, including the (Figure 2-1 and Figure 2-2). These wells are 323 and 400 ft deep, respectively.

Pumping Test

A pumping test was conducted in an irrigation well owned by Mr. Jeff Davis and located about 1.65 mile northwest of the location where Williams proposes to drill an irrigation well (see Figure 3). The Davis irrigation well is 140 ft deep, having an open bottom completion in gravel at 140 ft. The well log for the Davis Irrigation well is provided in Attachment 1, Figure 2-3. The well was equipped with an INSITU brand downhole pressure transducer to collect automated water levels during the pumping test. The well was pumped at a steady rate of 140 gpm for 24 hours. A plot of the data can be found in Attachment 2.

Curve matching methods were conducted using the AQTESOLV aquifer test software. Output plots from the AQTESOLV analyses are presented in Attachment 3. Figure 3-1 shows the match of the early time data to the Theis unconfined solution. The calculated transmissivity is $9.473 \times 10^4 \text{ ft}^2/\text{day}$ and the storativity is unreliable because there is no observation well. The match of the late time data is presented in Figure 3-2 and the calculated transmissivity is $7.686 \times 10^4 \text{ ft}^2/\text{day}$. Based on the good match to the Theis unconfined solution the aquifer is confined in this area. For long term pumping calculations it is appropriate to use the late time value of $7.686 \times 10^4 \text{ ft}^2/\text{day}$ for the transmissivity because long term pumping conditions are of interest.

As a check on extrapolating the Davis Well data to the POD location, transmissivity was calculated using well specific capacity data from two irrigation wells near the proposed well location and the Davis Test Well. Empirical equations based upon many well tests have been developed to estimate aquifer transmissivity from the specific capacity of a well (Driscoll, 1986). A description of the method is given in the inset box below (<http://www.aqtesolv.com/forum/transcap.asp>). Typically, transmissivities calculated from specific capacities are lower than actual values due to a variety of including factors such as well inefficiencies, well bore storage and partial penetration. Nevertheless, the method is often used when no other data are available.



Using the method described below the transmissivity values for the irrigation wells near the POD and the Davis Test Well are listed in Table 3. As expected, the values for transmissivity using specific conductivity are less than the pumping test. The average value is more than one order of magnitude less than the pumping test value. However, the calculation using the specific capacity data from the Davis Test is also more than an order of magnitude less than the test values, so the results agree with the theory, in general, the Driscoll (1986) method results in lower, but comparable transmissivity values. Another possible explanation for the Dave Mills Well value being lower is that it is situated off the basin floor and drilled into a thick sequence of limestone (from 275 to 400 ft). The limestone is part of the basement sequence and is not anticipated to

Table 3 Calculated transmissivity using specific capacities from irrigation wells.

	Flow Rate (gpm)	Drawdown (ft)	Specific Capacity (gpm/ft)	Trans- missivity (ft ² /day)
Dave Mills	550	50	11.0	2941
Peoa Ranch	1925	65	29.6	7919
Davis Test	140	18.4	7.6	2034
			Average	4298

Transmissivity from Specific Capacity

by Glenn M. Duffield, President, HydroSOLVE, Inc.

The following equation, based on the [Cooper and Jacob \(1946\) solution](#) for flow to a well in a confined aquifer, computes the specific capacity, Q/s_w , of a well:

$$\frac{Q}{s_w} = \frac{T}{0.183 \log \left(\frac{2.25Tt}{r_w^2 S} \right)} \dots (1)$$

where Q is constant discharge rate [L^3/T], r_w is pumped well radius [L], S is [storativity](#) [dimensionless], s_w is [drawdown](#) in the well [L], T is [transmissivity](#) [L^2/T] and t is time [T].

Approximate Formulas for Estimating Transmissivity from Specific Capacity

Using equation (1), [Driscoll \(1986\)](#) assumed the following values to develop approximate formulas for estimating transmissivity from specific capacity in [confined](#) and [unconfined](#) aquifers:

$$\begin{aligned} T &= 30,000 \text{ US gal/day/ft} \\ S &= 0.001 \text{ (confined) or } 0.075 \text{ (unconfined)} \\ r_w &= 0.5 \text{ ft} \\ t &= 1 \text{ day} \end{aligned}$$

Given these assumed values, Driscoll (1986) estimates transmissivity given the specific capacity of a well as follows:

$$\begin{aligned} T &= 2000(Q/s_w) \quad \text{confined aquifer} \\ T &= 1500(Q/s_w) \quad \text{unconfined aquifer} \end{aligned}$$

where T is transmissivity [US gal/day/ft], Q is constant discharge rate [US gal/min] and s_w is drawdown in the pumped well after 1 day [ft].



produce much water. As a matter of fact, in the computer analysis presented in the next section it is assumed that the basement rocks do not produce any water and the Dave Mills location is on the edge of the model boundary (thus the model takes no credit recharging the aquifer from this location). The Dave Mills Well probably introduces a downward bias in the average calculated transmissivity. It is anticipated that the POD Well will encounter a geologic sequence similar to the Peoa Valley Ranch Well because of its corresponding location to the valley floor. The Peoa Valley Ranch transmissivity calculated from specific capacity is one order of magnitude less than the transmissivity from the Davis Test suggesting that the transmissivity value from the Davis Test is a reasonable approximation for the aquifer near the Williams POD.

Impact Assessment

The Williams wish to irrigate using a combination of center pivots and wheel lines that will require a total of 1122 gpm or 2.51 cfs. To estimate the long-term drawdown and impact to neighboring wells from pumping of the proposed Williams Well, the forward solution capabilities of the AQTESOLV program were employed. The input parameters to the model are listed in Table 4-1 (see Attachment 4). Boundaries in AQTESOLV were enabled as shown in Figure 4-1 to represent Malad Valley. As depicted in Figure 4-1 and listed in Table 4-2 the model is 32,000 ft wide and 50,000 ft long. Because the Malad Valley is bounded by mountains consisting of Paleozoic and Mesozoic sedimentary rock that do not provide much water compared to the unconsolidated valley fill, the east and west boundaries were set as impermeable or “no flow” boundaries. Because of flow out of the basin to the south the southern boundary was also set as a no flow boundary. Water is allowed to enter the model domain only through the north boundary. In the model domain the proposed POD well is located 6500 ft east of the west boundary and 4225 ft north of the south boundary. This represents the proximity of the proposed POD to the nearby mountains, which will have the effect of increasing drawdown.

Figure 4-2 shows the AQTESOLV[®] output plot of the forward calculation for the proposed well pumping at 2.51 cfs (1122 gpm) constantly for 6 months (April 15 to Oct 15). At the end of the time period the predicted drawdown is estimated to be about 8.3 feet in the proposed Williams Well. The calculated drawdown for a well 1/2 mile northwest of the proposed well is 4.3 ft. This calculation is a worse case analysis as it is likely that the POD well will only pump about half the permitted time.

It is my professional opinion that the Williams water right application will not excessively impact his neighbors' right to divert water. For several reasons I believe that the calculated drawdown over estimates the actual drawdown to be expected: 1) The Williams will probably never pump continuously at the maximum rate for 180 days nor consume 893 acre – ft in a single year; 2) the Paleozoic/Mesozoic rocks of the mountains are not completely impermeable and will provide some water to the system, thus reducing drawdown, and 3) many canals and the Malad River are within the domain of the model and no credit for recharge or leakage is taken in the model. All of these factors will reduce the predicted drawdown presented here.



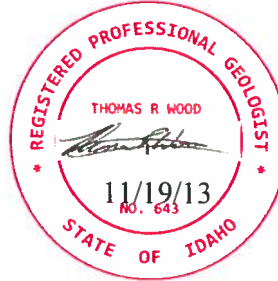
Clearwater Geosciences, LLP
Ground Water Development and Exploration

Please do not hesitate to call me if you have any questions about this letter or the calculations presented.

Respectfully,

A handwritten signature in black ink, appearing to read "Thomas R. Wood".

Thomas R. Wood, PhD, PG



cc

Mr. and Mrs. Williams, 2643 South Samaria Rd., Malad, ID 83252

References

- Driscoll, F.G., 1986, Groundwater and Wells, Second Edition, Published by Johnson Filtration Systems Inc.
- Freeze, R.A. and J.A. Cherry, 1979, Groundwater, ISBN 0-13-365312-9, Prentice-Hall, Inc., Englewood Cliffs, New Jersey 07632.

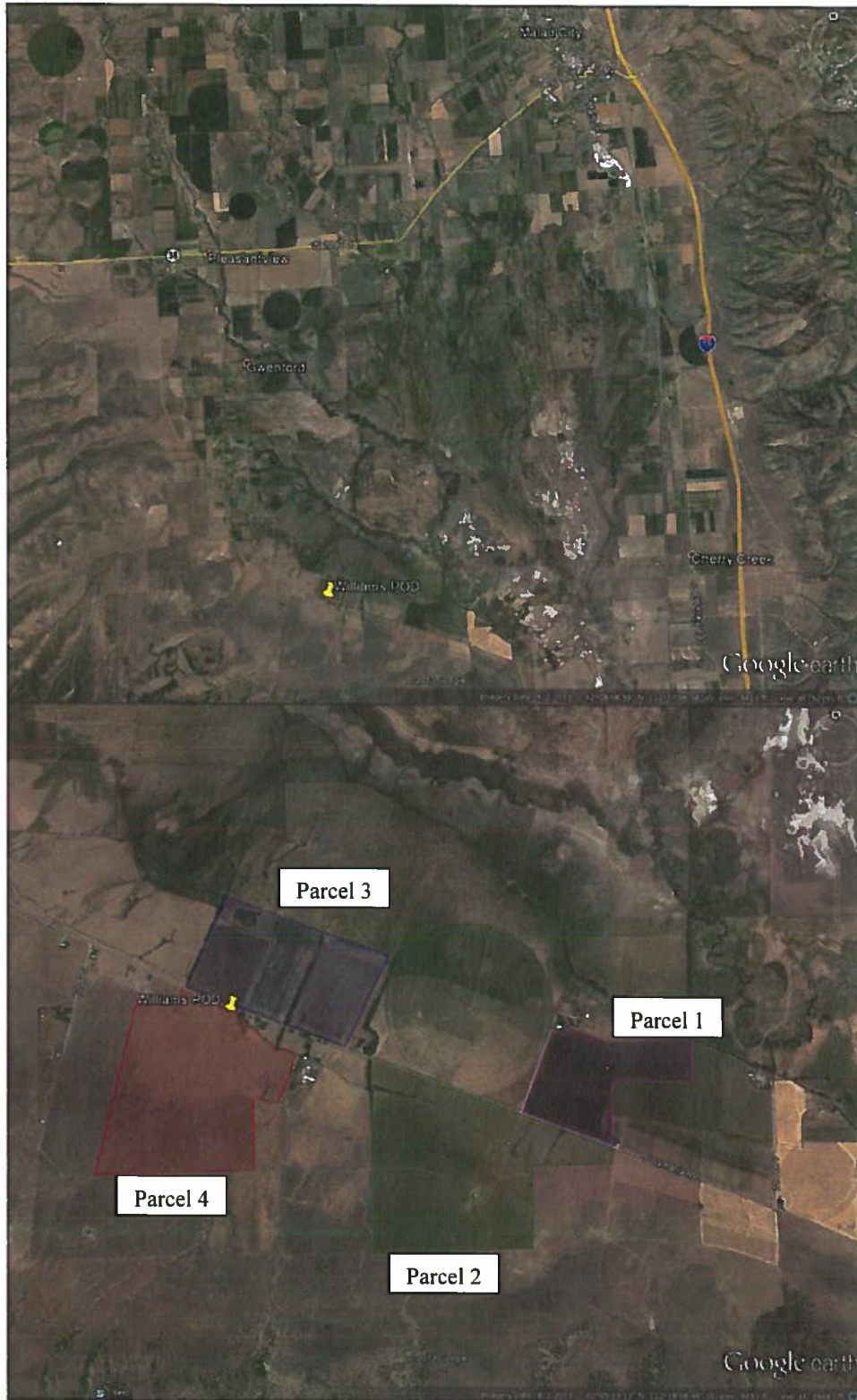


Figure 1. Maps showing locations of the proposed point of diversion and various parcels of the Williams farm.

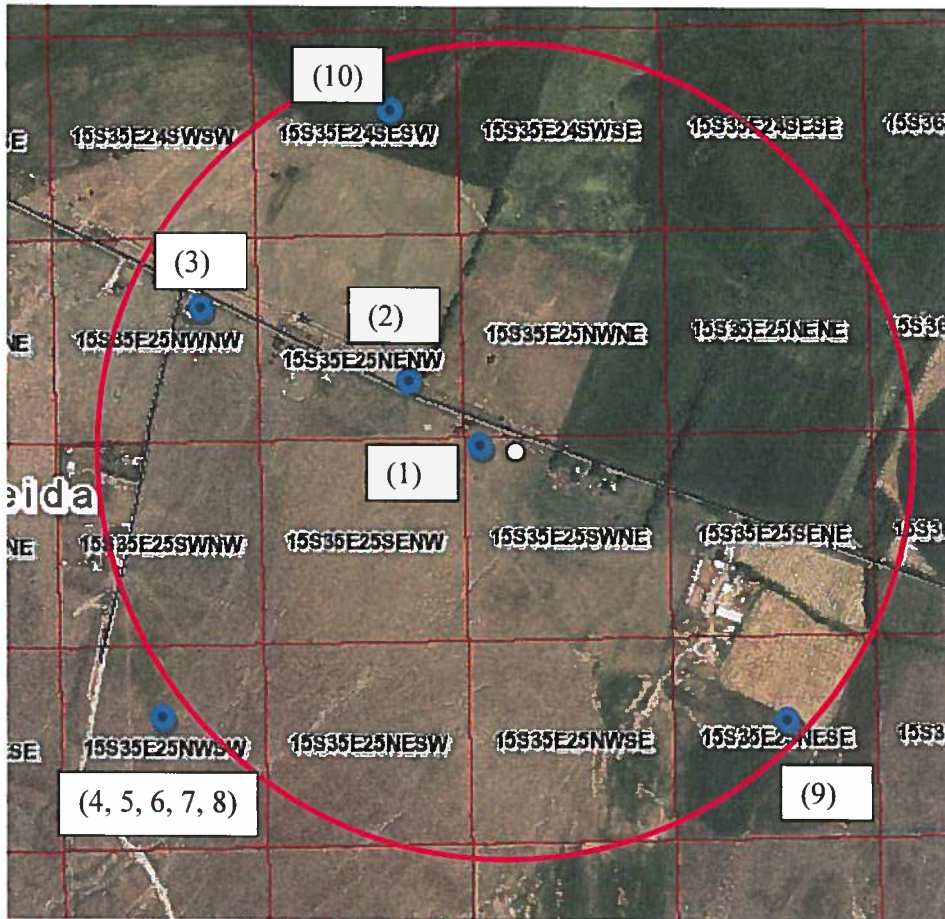


Figure 2 Google Earth image of area with a red circle of ½ mile diameter.



Figure 3. Well locations for wells used in aquifer analysis and the POD.



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Ground Water Development and Exploration

Table 1 IDWR Search results for point of diversions in T15S, R35E, Sections 24 and 25

<u>Type</u>	<u>Basin</u>	<u>Sequence</u>	<u>Basis</u>	<u>Status</u>	<u>Priority Date</u>	<u>Div. Rate (cfs)</u>	<u>Source</u>	<u>Water Use</u>	<u>Owner</u>
<u>Water Right</u>	15	2105	License	Active	2/16/1949	0.01	SPRING	STOCKWATER	UNITED STATES OF AMERICA ACTING THROUGH
<u>Water Right</u>	15	4034	Statutory Claim	Active	07/30/1880	0.5	SPRING	IRRIGATION	DURBIN, ILENE J; HUGHES, LEVI
<u>Water Right</u>	15	7277	Statutory Claim	Active	02/15/1875	111.8	SAMARIA CREEK, SPRING	IRRIGATION, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	SAMARIA LAKE IRRIGATING CO
<u>Water Right</u>	15	4041	Statutory Claim	Active	11/1/1925	4	UNNAMED DITCH	IRRIGATION, STOCKWATER	DURBIN, ILENE J
<u>Water Right</u>	15	4051	Statutory Claim	Active	04/18/1888	0.62	ALDRIDGE CANYON SPRING, BIG CANYON SPRING	IRRIGATION	WILLIAMS, MARCENE L; WILLIAMS, THOMAS C
<u>Water Right</u>	15	4087	Statutory Claim	Active	04/18/1888	0.03	ALDRIDGE CANYON SPRING, BIG CANYON SPRING	IRRIGATION, STOCKWATER	PEOA RIVER VALLEY RANCH LAND LLC; THE CREATIVE CENTER OF
<u>Water Right</u>	15	7223	License	Active	2/26/2002	2.7	GROUND WATER	IRRIGATION	PEOA RIVER VALLEY RANCH LAND LLC; TRIPLE R
<u>Water Right</u>	15	7341	Statutory Claim	Active	04/18/1888	0.59	ALDRIDGE CANYON SPRING, BIG CANYON SPRING	IRRIGATION, STOCKWATER	PEOA RIVER VALLEY RANCH



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Table 2 IDWR Search results for point of diversions in T15S, R35E, Section 24

NO.	Contact	Use	TWP	RNG	SEC	Tract	WellAddress	Gallons Per Minute	Static Water Level	Total Depth	Casing Depth	CSG. DIA.	Construction Date	Permit Number	Tag Number
1	HUGHES, ORILLA	Domestic-Livestock	15S	35E	25	SWNE	433 SO SAMARIA RD	30	45	126	126	6	6/18/1992	700244	
2	DIVES, EDWIN C	Domestic-Single Residence	15S	35E	25	NENW	425 S SAMARIA RD		52	100	89	6	9/1/1995	700342	
3	HOLGATE, MARLYNN	Domestic-Single Residence	15S	35E	25	NWNW	142 SOUTH SAMARIA ROAD	20	45	123	121	6	6/2/1998	700451	D0004716
4	HIGLEY, WILLARD J	Domestic-Single Residence	15S	35E	25	NWSW	4010 S SAMARIA	5	143	200	100	6	4/25/1998	700446	D0004117
5	HUGHES, CLARENCE R	Domestic-Single Residence	15S	35E	25	NWSW		30	163	220	199	6	10/30/1996	700385	
6	CLOSE, TOM	Domestic-Single Residence	15S	35E	25	NWSW	4025 WEST SAMERIA ROAD	10	102	240	220	6	8/27/1998	700472	D0002685
7	DURBEN, ROBERT & ILENE	Domestic-Single Residence	15S	35E	25	NWSW	SAMARIA ROAD	20	200	360		6	12/20/2005	837759	D0037810
8	HIGLEY, WILLARD J	Domestic-Single Residence	15S	35E	25	NWSW	411 S SAMQUIRIA RD		0	135	135	6		700301	
9	HUGHES, RALPH	Irrigation	15S	35E	25	NESE	OFF WEST SAMARIA/COU NTY LINE ROAD		76	200	200	12	1/10/2002	771550	D0021773
10	PETERSON, MARK	Domestic-Single Residence	15S	35E	24	SESW	50 S 3100 W		384	503	503	6	12/24/2002	789700	D0026362



Attachment 1

WELL LOGS



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Table 1-1 Summary of Wells within 1/2 mile of POD.

NO.	Contact	Use	TWP	RNG	SEC	Tract	WellAddress	Gallons Per Minute	Static Water Level	Total Depth	Casing Depth	CSG. DIA.	Construction Date	Permit Number	Tag Number
1	HUGHES, ORILLA	Domestic-Livestock	15S	35E	25	SWNE	433 SO SAMARIA RD	30	45	126	126	6	6/18/1992	700244	
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3	HOLGATE, MARLYNN	Domestic-Single Residence	15S	35E	25	NWNW	142 SOUTH SAMARIA ROAD	20	45	123	121	6	6/2/1998	700451	D0004716
4	HIGLEY, WILLARD J	Domestic-Single Residence	15S	35E	25	NWSW	4010 S SAMARIA	5	143	200	100	6	4/25/1998	700446	D0004117
5	HUGHES, CLARENCE R	Domestic-Single Residence	15S	35E	25	NWSW		30	163	220	199	6	10/30/1996	700385	
6	CLOSE, TOM	Domestic-Single Residence	15S	35E	25	NWSW	4025 WEST SAMERIA ROAD	10	102	240	220	6	8/27/1998	700472	D0002685
7	DURBEN, ROBERT & ILENE	Domestic-Single Residence	15S	35E	25	NWSW	SAMARIA ROAD	20	200	360		6	12/20/2005	837759	D0037810
8	HIGLEY, WILLARD J	Domestic-Single Residence	15S	35E	25	NWSW	411 S SAMQUIRIA RD	0	Above Ground Level	135	135	6		700301	
9	HUGHES, RALPH	Irrigation	15S	35E	25	NESE	OFF WEST SAMARIA/COU NTY LINE ROAD		76	200	200	12	1/10/2002	771550	D0021773
10	PETERSON, MARK	Domestic-Single Residence	15S	35E	24	SESW	50 S 3100 W		384	503	503	6	12/24/2002	789700	D0026362



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 238-7
9/90

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>TAM ORILLA HUGHES</u> Address <u>457 SOUTH SAMARITA RD. BOISE</u> Drilling Permit No. <u>15-92E-008</u> Water Right Permit No. _____		7. WATER LEVEL Static water level <u>45</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____ Describe artesian or temperature zones below.																																													
2. NATURE OF WORK ☐ New well ☐ Deepened ☒ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>30</u></td><td></td><td><u>15</u></td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	<u>30</u>		<u>15</u>																																						
Discharge G.P.M.	Pumping Level	Hours Pumped																																													
<u>30</u>		<u>15</u>																																													
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☒ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"><thead><tr><th>Bore Diam.</th><th>Depth</th><th>Material</th><th>Water</th></tr><tr><th></th><th>From To</th><th></th><th>Yes No</th></tr></thead><tbody><tr><td>9</td><td>0 25</td><td>BROWN CLAY</td><td></td></tr><tr><td>16</td><td>25 40</td><td>BROWN CLAY & COARSE</td><td></td></tr><tr><td></td><td></td><td>ROCK AT ROCK</td><td></td></tr><tr><td>40</td><td>45</td><td>CLAY CLAY</td><td></td></tr><tr><td>65</td><td>72</td><td>CRAVEL TAILITE</td><td></td></tr><tr><td></td><td></td><td>WATER</td><td></td></tr><tr><td>72</td><td>85</td><td>BROWN CLAY & ROCK</td><td></td></tr><tr><td>95</td><td>107</td><td>SAND</td><td></td></tr><tr><td>107</td><td>164</td><td>CRAVEL GREY ROCK</td><td></td></tr></tbody></table>		Bore Diam.	Depth	Material	Water		From To		Yes No	9	0 25	BROWN CLAY		16	25 40	BROWN CLAY & COARSE				ROCK AT ROCK		40	45	CLAY CLAY		65	72	CRAVEL TAILITE				WATER		72	85	BROWN CLAY & ROCK		95	107	SAND		107	164	CRAVEL GREY ROCK	
Bore Diam.	Depth	Material	Water																																												
	From To		Yes No																																												
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40	45	CLAY CLAY																																													
65	72	CRAVEL TAILITE																																													
		WATER																																													
72	85	BROWN CLAY & ROCK																																													
95	107	SAND																																													
107	164	CRAVEL GREY ROCK																																													
4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		RECEIVED AUG 10 1992 Department of Water Resources Eastern District Office RECEIVED AUG 21 1992 Department of Water Resources																																													
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>2.50</u> inches</td><td><u>6</u> inches</td><td><u>18</u> feet</td><td><u>126</u> feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☒ Torch ☐ Gun Size of perforation <u>1/4</u> inches by <u>2</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>45</u> perforations</td><td><u>90</u> feet</td><td><u>113</u> feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Model No. _____ Type _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>10</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Pudding clay ☒ Sealant Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____				Thickness	Diameter	From	To	<u>2.50</u> inches	<u>6</u> inches	<u>18</u> feet	<u>126</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	<u>45</u> perforations	<u>90</u> feet	<u>113</u> feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet												
Thickness	Diameter	From	To																																												
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_____ perforations	_____ feet	_____ feet																																													
6. LOCATION OF WELL Sketch map location must agree with written location. <table border="1"><tr><td>N</td><td></td><td></td><td></td><td></td></tr><tr><td>W</td><td></td><td>X</td><td></td><td>E</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ONEIDA</u> <u>SE</u> 1/4 <u>NE</u> 1/4 Sec. <u>25</u> , T. <u>15</u> N. R. <u>35</u> E. S. <u>15</u> W.		N					W		X		E						11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>ORBE DRILLING & PUMP</u> Firm No. <u>148</u> Address <u>PO BOX 4465 BOCA TON</u> Date <u>6/14/92</u> Signed by (Firm Official) <u>M. H. Dabbe</u> and (Operator) <u>Bert Ruediger</u>																														
N																																															
W		X		E																																											

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

Well 1



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 838-7
3/95

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

63230

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____
☐ Pump ☐ Bailer
☐ Air ☐ Flowing Artesian

1. DRILLING PERMIT NO. 15-95-E-0016-000

Other IDWR No. _____

2. OWNER:

Name KEVIN DUES

Address 54 W. SAMARIA LANE

City MARLBOROUGH State VT Zip 05252

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North ☐ or South ☒
Twp. 15 North ☐ or South ☒
Rge. 35 East ☒ or West ☐
Sec. 25 NE 1/4 NW 1/4
Gov't Lot _____ County ADAMS 100 acres
Lat: _____ Long: _____

Address of Well Site 425 W. Spruick Rd City MARLBOROUGH

Li _____ Blk _____ Sub Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE	120	0	450		OVER BURE

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 90'
Was drive shoe seal tested? ☒ Y ☐ N How? N/A

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10" + 2	87	250	51.66	STEEL	☒	☐	☒	☐

Length of Headpipe N/A Length of Tailpipe N/A

9. PERFORATIONS/SCREENS

☒ Perforations Method TOUCH
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
68	85	12"	4	1/4		☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

52 ft. below ground Artesian pressure 10 lb.
Depth flow encountered 85 ft. Describe access port or control devices: TOP

11. WELL TESTS:

Yield gal. min.	Drawdown	Pumping Level	Time
	<u>NONE</u>		

Water Temp. 62.0 Bottom hole temp. 62.0

Water Quality test or comments: NONE

Depth first Water Encountered 70'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8 1/4"	0	10	CLAY, SOME COBBLE ROCK		
	10	19	CLAY		
	19	22	COBBLE ROCK		
	22	25	CLAY, GRAVEL		
	25	35	CLAY		
	35	40	GRAVEL, COBBLE ROCK		
	40	45	CLAY		
	45	48	GRAVEL, COBBLE ROCK		
	48	50	CLAY		
	50	52	COBBLE ROCK, GRAVEL		
	52	54	CLAY		
	54	57	COBBLE ROCK, GRAVEL		
	57	61	CLAY, GRAVEL, COBBLE ROCK		
	61	66	HARD LIMESTONE		
	66	72	BROWN LIME, CLAY		
	72	85	CLAY, BRICK, SAND		
	85	86	LIMESTONE		
	86	90	GRAVEL LIM, LIME SAND		
	90	100	GRAVEL, IRONSTONE LIME		

RECEIVED

OCT 06 1995

RECEIVED

NOV 24 1995

Department of Water Resources

Eastern District Office

Department of Water Resources

MAR 07 1996

Completed Depth 8 100' (Measurable)
Date: Started 8-29-95 Completed 8-1-95

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Clearwater Geosciences, LLP Firm No. 104

Firm Official [Signature] Date 9-1-95

and [Signature]

Supervisor or Operator [Signature] Date 9-1-95

FORWARD WHITE COPY TO WATER RESOURCES

Well 2



'60231

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: _____ Long: _____

11. WELL TESTS:

Other IDWR No 0000 4716

☐ Pump ☒ Bailer☐ Air ☐ Flowing Artesian

2. OWNER:

Name Marilyn Holgate
Address 142 Samaria Rd
City Milled City State SD Zip 57252

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 15 S North ☐ or South ☒
 Rge. 35 East ☒ or West ☐
 Sec. 25 N61 1/4 NW 1/4 1/4
10 acres 40 acres 160 acres
 Gov't Lot _____ County ONEIDA
 Lat. : : Long. : :
 Address of Well Site 142 S SAMARIA
 City _____

Lt. _____ Bk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	6	Forced

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 123'

Was drive shoe seal tested? ☒ Y ☐ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	x 1	121.3	250	steel	☒	☐	☒	☐
					☐	☐	☐	☐
						☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method _____

Screens	Screen Type
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

45 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

Yield gal/m.n.	Drawdown	Pumping Level	Time
20	None		

Water Temp. 68° Bottom hole temp. 68°

Water Quality test or comments: _____

Depth first Water Encountered

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name A & I Well Drilling Firm No. 585

Firm Official William T Adams Date 6-6-98

and
Supervisor or Operator William T Adams Date 6-6-98

(Sign once if Firm Official & Operator)

Well 3



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 236-7
3/95

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

057768

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____	1/4 _____	1/4 _____	
Lat: _____		Long: _____	

1. DRILLING PERMIT NO. 15-96-E-0028-000
Other IDWR No. _____

2. OWNER:

Name CLARENCE R. HUGHES
Address 4030 W. SAMARTIA RD.
City MALAD State ID Zip 83252

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>15</u>		North ☐ or South ☒	
E		Rge. <u>35</u>		East ☒ or West ☐	
S		Sec. <u>25</u>		1/4 <u>NW</u> 1/4 <u>SW</u> 1/4	
W		Gov't Lot _____		County <u>ONEIDA</u>	
		Lat: _____		Long: _____	

Address of Well Site _____

(Give at least name of road - Distance to Road or Landmark)

Li. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>BENTONITE</u>	<u>0</u>	<u>20</u>	<u>11 BAG</u>	<u>PAUL-ED IN ANNUAL</u>	<u>HOLE</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 199
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>1</u>	<u>199</u>	<u>240</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method TORCH
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>200</u>	<u>180</u>	<u>12"</u>	<u>7</u>	<u>8"</u>	<u>SLICK</u>	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

163 ft below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>30</u>	<u>-</u>	<u>-</u>	<u>2 hrs</u>

Water Temp. COLD Bottom hole temp COLD

Water Quality test or comments: Good

Depth first Water Encountered 190

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>19</u>	<u>COBBLE ROCK BROWN CLAY</u>	☒	☐
<u>24"</u>	<u>19</u>	<u>118</u>	<u>COBBLE ROCK BROWN CLAY</u>	☒	☐
<u>118"</u>	<u>121</u>	<u>138</u>	<u>QUARTZ ROULDER</u>	☒	☐
<u>121"</u>	<u>138</u>	<u>156</u>	<u>BROWN CLAY</u>	☒	☐
<u>156"</u>	<u>156</u>	<u>308</u>	<u>COBBLE ROCK BROWN CLAY</u>	☒	☐
<u>308"</u>	<u>308</u>	<u>320</u>	<u>BROWN LIMESTONE</u>	☒	☐
<u>320"</u>	<u>320</u>	<u>320</u>	<u>BROWN CLAY SAND</u>	☒	☐
<u>320"</u>	<u>320</u>	<u>320</u>	<u>BROWN LIMESTONE</u>	☒	☐

RECEIVED

NOV 12 1996

Department of Water Resources

RECEIVED

NOV 06 1996

Department of Water Resources
Eastern Region

MICROFILMED

Completed Depth 219 (Measurable)
Date: Started 10-23-96 Completed 10-30-96

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name INTEL-MT DRILLING Firm No 106

Without Prejudice UCC 1-207

Firm Official [Signature] Date 10-31-96

and [Signature] Without Prejudice UCC 1-207

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Well 5



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 238-7
(85)

DMD

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint Pen

94897

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____	1/4 _____	1/4 _____	
Lat: _____	Long: _____	_____	

1. DRILLING PERMIT NO. D-000-2685
Other IDWR No. 15-98-E-0036

2. OWNER: TOM GLOSE
Name _____
Address 4025 WEST SAMARIA RD
City MILAD State ILL Zip _____

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>15</u>		North ☐ or South ☒
E		Rge. <u>35</u>		East ☒ or West ☐
S		Sec. <u>25</u>		1/4 <u>NW</u> 1/4 <u>SW</u> 1/4
W		Gov't Lot _____		County <u>ONEIDA</u>
		Lat: _____		Long: _____
		Address of Well Site <u>SAME</u>		City _____

(Give at least name of road - Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT Sacks or Pounds	METHOD
Material	From	To		
<u>BENTONITE</u>	<u>0</u>	<u>20</u>		<u>OVERBORE</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 220

Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>16</u>	<u>0</u>	<u>220</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

102 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
<u>5-10</u>		<u>220</u>	<u>1hr</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>Y</u>	<u>0</u>	<u>3</u>	<u>BROWN CLAY & ROCK</u>		
	<u>3</u>	<u>20</u>	<u>" " " "</u>		
	<u>20</u>	<u>50</u>	<u>" " " "</u>		
	<u>50</u>	<u>160</u>	<u>" " " "</u>		
	<u>160</u>	<u>180</u>	<u>VERY LARGE ROCK</u>		
	<u>180</u>	<u>220</u>	<u>" " " "</u>		
	<u>220</u>	<u>240</u>	<u>SAND GRAVEL LENSES</u>		
	<u>240</u>	<u>240</u>	<u>" " " "</u>		

RECEIVED RECEIVED

MAR 22 1999 MAR 18 1999

Department of Water Resources
Department of Water Resources
Eastern Region
MICROFILMED
JUN 08 1999

Completed Depth 240 (Measurable)

Date: Started 8-20-98 Completed 8-27-98

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Just Water Well Drilling Firm No 115

Firm Official Arnold Hankstean Date 8-27-98

and _____

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Well 6



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

15

Office Use Only
Well ID No _____
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0037810
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Robert & Elaine Durbauer
Address P.O. Box 680
City Endicott State CA Zip 92033

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp 15 North ☐ or South ☒
Rge. 25 East ☒ or West ☐
Sec 25 1/4 NW 1/4 SW 1/4
Gov't Lot _____
County San Diego
Lat: _____ Long: _____
Address of Well Site San Marcos
City Malibu
(Circle lot, name of road, or direction to road or landmark)
Lt. _____ Blk. _____ Sub Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES
Seal Material Bentonite From 0 To 10 Weight / Volume _____ Seal Placement Method _____
Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:
Diameter From To Gauge Material Casing Liner Welded Threaded
6" 0 360" 150 Steel ☒ ☐ ☒ ☐
Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE
Perforation Method Touch
Screen Type & Method of Installation
From To Slot Size Number Diameter Material Casing Liner
340 360 1/4" 25 6" Steel ☒ ☐
25 ☐ ☐

10. FILTER PACK
Filter Material From To Weight / Volume Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
100' ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

12. WELL TESTS:
☐ Pump ☐ Bailor ☒ AC ☐ Flowing Artesian
Yield gal/min _____ Drawdown _____ Pumping eval _____ Time _____
Water Temp. cold Bottom hole temp cold
Water Quality test or comments _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Dore	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	193	Cobbles & Bentonite Gravel		X
10	193	260	Brown clay & gravel	255	X
10	260	272	Red clay		X
8	272	360	Line & Broken phonon		X

Completed Depth: 360" (Measurable)
Date: Started 12-5-05 Completed 12-20-05

14. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
Company Name Mountain Well Drilling Firm No. 5413
Principal Driller Michael Zandbergen Date 12-23-05
and
Driller or Operator II Mike Zandbergen Date 12-23-05
Operator I _____ Date _____
Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

Well 7

FORWARD WHITE COPY TO WATER RESOURCES



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT 061655
Use Typewriter or Ballpoint Pen

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat. : : Long. : :

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
None			

Water Temp. _____ Bottom hole temp _____
Water Quality test or comments: _____

Sketch map location must agree with written location.

Depth first Water Encountered

12. LITHOLOGIC LOG: (Describe repairs or abandonment) _____

(Give at least name of Ined + Distance in Road or Locality)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD
☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material:	From	To	Sacks or Pounds	
Bentley	0	?		dry pow.

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 135'

Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	1/4"	1/3"	.25	St-1	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method Pre-cut

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

Depth flow encountered _____ ft. Describe access port or control devices: _____

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name D.B. Priller Firm No. 542

Firm Official _____ Date 11.2.87

and

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Well 8



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint Pen

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

Other DWR No. 00021773

Name Ralph Hughes
Address 3141 West Samaria Road
City Malden State ED Zip 03252

Sketch map location must agree with written location.



Twp 15 North ☐ or South ☒
 Rge 35 East ☒ or West ☐
 Sec. 25 1/4 NE 1/4 SE 1/4
 Gov't Lot _____ County Oneida 10 acres 50 acres 160 acres
 Lat: : : Long: : :
 Address of Well Site Samarita Rd
Samarita City Mabel
 (Give all name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub Name _____

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	①	20	16	Over Bore

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☐ N How? _____

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
12"	0	200	325	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

Perforations Method machine
Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Line
80	190	1/4"	480	12"	Steel	≠	☐
							☐
							☐
							☐

76 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. Cold Bottom hole temp Cold

Water Quality test or comments. good

Depth first Water Encountered 20

Water

[illegible]

Completed Depth 200' (Measurable)

Date: Started 1-10-03 Completed 1-10-03

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Mountain West Fuel Drilling Inc. Firm No. 543

Firm Official Michael Frandsen Date 1-20-02

and
Supervisor or Operator Mike Frandus Date 1-10-03

(Sign once if Firm Official & Operator)

Well 9



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 238-
11/97

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	Long	

1. WELL TAG NO. D 00026362
DRILLING PERMIT NO. 789700
Other IDWR No. 15

2. OWNER:
Name Mark Peterson
Address 505 3100 W
City Malad State ID Zip 83252

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N		Twp. <u>13S</u>		North ☐ or South ☒	
E		Rge. <u>35E</u>		East ☒ or West ☐	
S		Sec. <u>24</u>		1/4 <u>SE</u> 1/4 <u>SW</u> 1/4	
W		Gov't Lot		County <u>Oneida</u>	
		Lat:		Long:	

Address of Well Site _____
City Malad

Li. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Bentonite	0	20	15		overbore

Was drive shoe used? ☒ N Shoe Depth(s) 503
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	0	503.250		Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method Touch
Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
173	503	1/4"-4"	40	6"	Steel	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

384 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump	☐ Bailer	☒ Air	☐ Flowing Artesian
Yield gal/min	Drawdown	Pumping Level	Time

Water Temp. Cold Bottom hole temp. Cold
Water Quality test or comments: good

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8"	0	300	Bentonite Resonance		X
8"	300	400	Bentonite		X
8"	400	440	lime		X
8"	440	503	Bentonite	X	

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JAN 14 2003

Completed Depth 503 (Measurable)
Date: Started 12-19-02 Completed 12-24-02

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Mountain West Well Drilling Firm No. 543

Firm Official Michael Frandon Date 1-6-03

and Driller or Operator Mike Frandon Date 1-6-03

(Signed as Firm Official & Operator)

Well 10



Attachment 2

DATA PLOTS



Clearwater Geosciences, LLP
Ground Water Development and Exploration

Form 238-7
6/07

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 00163026

Drilling Permit No. _____

Water right or injection well # _____

2. OWNER: Peoa River Valley Ranch

Name _____

Address 3970 E Hwy 36

City Malad State ID Zip 83262

3. WELL LOCATION:

Twp. 15 North ☐ or South ☒ Rge. 35 East ☒ or West ☐

Sec. 23 SE 1/4 SW 1/4 NE 1/4 NW 1/4

Gov't Lot _____ County Greene

Lat. 42 ° 16.089 (Deg. and Decimal minutes)

Long. 112 ° 19.816 (Deg. and Decimal minutes)

Address of Well Site 5501 S 400 W

City Malad

Lot _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection

☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite	0	38	42 bags	overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
16	0	217	38	Steel	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 217

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method machine

Manufactured screen ☐ Y ☐ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
80	87	1/2	32	16	Steel	1.375
95	105	1/2	4	16	Steel	1.375
110	182	1/2	4	320	116	Steel

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☐ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 20 Static water level (ft) 50

Water temp. (°F) 58 Bottom hole temp. (°F) _____

Describe access port photo

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Test method:	Pump	Bailer	Air	Flowing artesian
				☐	☐	☒	☐

Water quality test or comments: good

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
20	0	15	clay		X
20	15	40	gravel + clay		X
16	40	65	gravel + clay		X
16	65	85	solids and sand/gravel		X
16	85	90	gravel	X	
16	90	93	Brown Rock		X
16	93	100	Sand pea gravel		X
16	100	105	loose Rock Hard		X
16	105	110	gravel		X
16	110	180	clay + gravel		X
16	180	200	gravel	X	
16	200	220	gravel clay		X
16	220	230	soft shale + gravel		X
16	230	300	Br shale + little gravel		X
16	300	320	Br + Red clay + shale gravel		X
16	320	323	Cement/gravel/very hard		X

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MAY 15 2013

Department of Water Resources
Eastern Region

Completed Depth (Measurable): 323

Date Started: 3-27-13 Date Completed: 4-12-13

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Midwest Drilling Co. No. 543

*Principal Driller Michael Zander Date 4-13-13

*Driller _____ Date _____

*Operator II Gabe Loe Date 4-13-13

Operator _____ Date _____

* Signature of Principal Driller and rig operator are required.

Figure 2-1. Well log for Peoa River Valley Well



PEORIA RIVER VALLEY PUMP TEST

PUMP IS SET AT 200'

STATIC IS 45'

BOTTOM OF WELL IS 300'

DRAW DOWN IS 65' WHEN PUMPING

PUMP IS PRODUCING 1925GPM

PUMP TESTED FOR ONE HOUR



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

15

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 150 Static water level (ft) 138

Water temp. (°F) cold Bottom hole temp. (°F) cold

Describe access port well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)

Test method:

Pump ☐ Beiter ☐ Air ☒ Flowing artesian ☐

Water quality test or comments: good

14. DRILLER'S CERTIFICATION: Date Completed: 10-18-10
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Michael Alford Drilling Co. No. 543

*Principal Driller Michael Frazier Date 10-18-10

*Driller Mark Sanderson Date 10-18-10

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Figure 2-2. Well log for Dave Mills.



PUMP TEST FOR DAVE MILLS
WELL TAG # D057510

TOTAL WELL DEPTH IS 400'
STATIC IS AT 140'
PUMP SET AT 265'
PUMP USED IS 40HP 550GPM

TEST PUMPED FOR 2 HOURS DRAW DOWN WAS AT
190'

TEST DONE BY CORDINGLY PUMP AND IRRIGATION

**IDAHO DEPARTMENT OF WATER RESOURCES**
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

1. WELL TAG NO. D 00 14152
 DRILLING PERMIT NO. 765240.
 Other IDWR No. 15-07179

2. OWNER:
Name MJ DAVIS Medical Limit-Partners
Address 2525 HIMALAYA
City COLORADO SPRING State CO Zip 80914

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 15 North ☐ or South ☐
 Rge. 35 East ☐ or West ☐
 Sec. 23 1/4 SE 1/4 NW 1/4
 Gov't Lot _____ County CANADA 10 acres 50 acres 150 acres
 Lat. _____ Long. _____
 Address of Well Site S 054 50 4600 W
 City SHAWNEE IDA

Lt. _____ Blk. _____ Sub. _____ Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER		PACK		AMOUNT	METHOD
Material	From	To	Sacks or Counds		
Retonite	0	30	4		over box

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8	+1	121	25	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method _____

Screen Type _____

From	To	Sto Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

51 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer

Yield gal/min	Drawdown	Pumping Level	Time
30-40		140	1 hr

Water Temp. _____ Bottom hole temp _____

Water Quality test or comments:

Depth first Water Encounter

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	30	CLAY & SLIME ROCK		
8	30	60	" " ROCKS		
8	60	90	" " ROCK LARGE		
	90	100	SAND GRAVEL ROCKS		
	100	120	" " " "		
	120	140	CLAY & ROCKS GRAVEL		

RECEIVED

FEB 06 2001

Department of Water Resources
Eastern Region

RECEIVED

FEB 12 2001

Department of Water Resources
Eastern Region

RECEIVED

DEC 18 2000

Department of Water Resources
Eastern Region

Completed	Depth	140 - 120	(Measurable)
Date: Started	10-4-200	Completed	10-25-200

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Lundstrom Walker Firm No. 118

Firm Office Windsor, London Date 1025200

Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

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Figure 2-3 Well log for M.J. Davis Well.



Pumping Test of Davis Well for Vik Riches Impact Assessment
140 gpm April 23, 2011

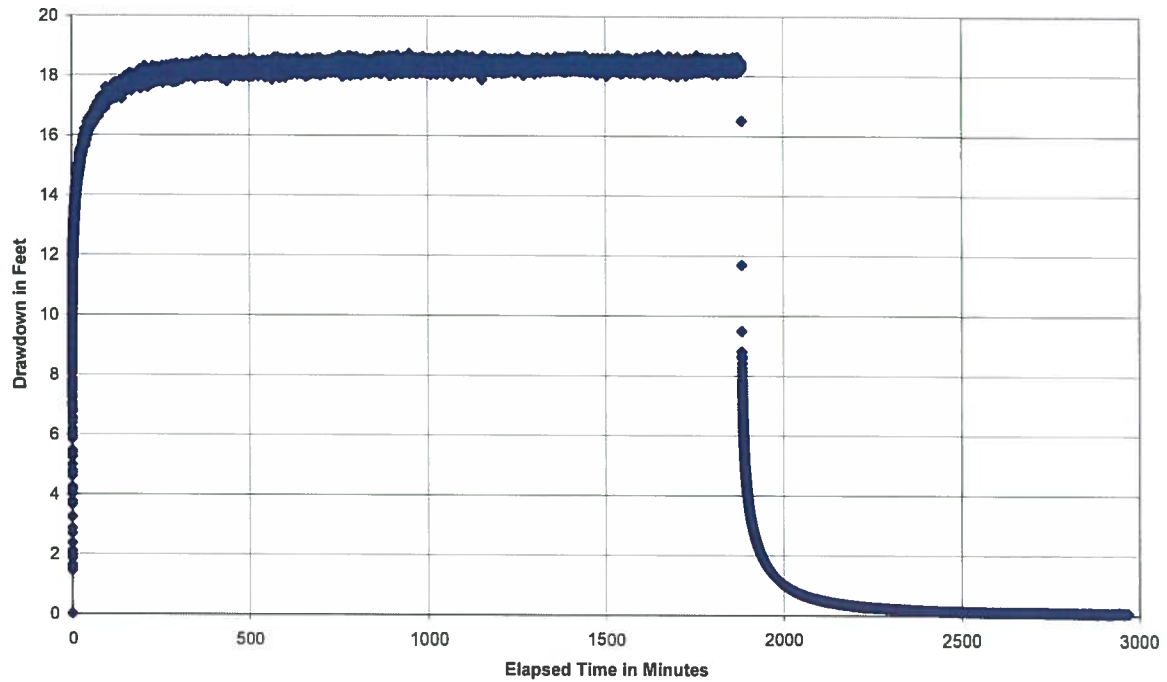


Figure 2-1. Plot of entire data set for pumping test of the Jeff Davis Irrigation well.



Attachment 3

AQTESOLV PLOTS

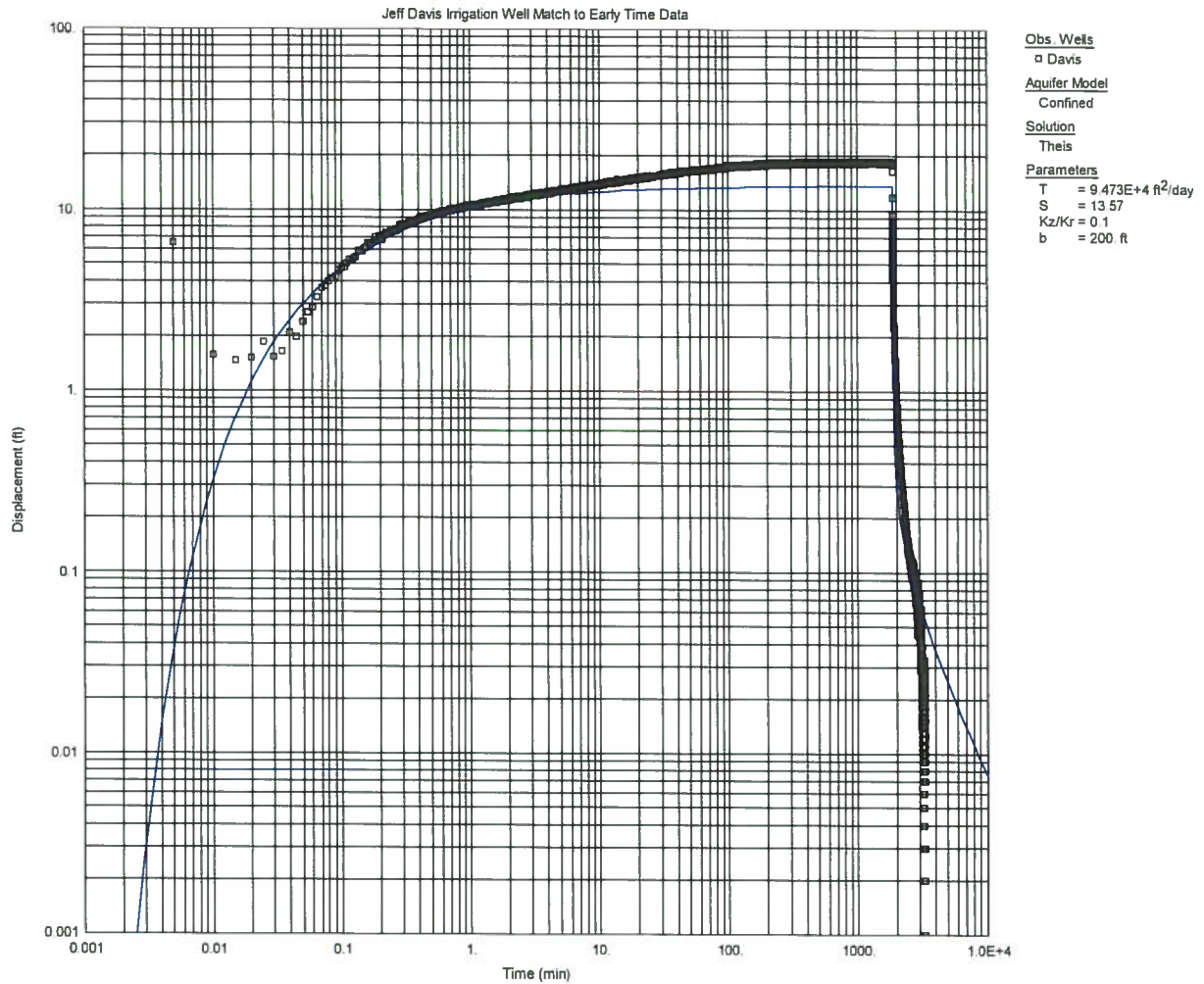


Figure 3-1 Theis unconfined solution matched to early time well data.

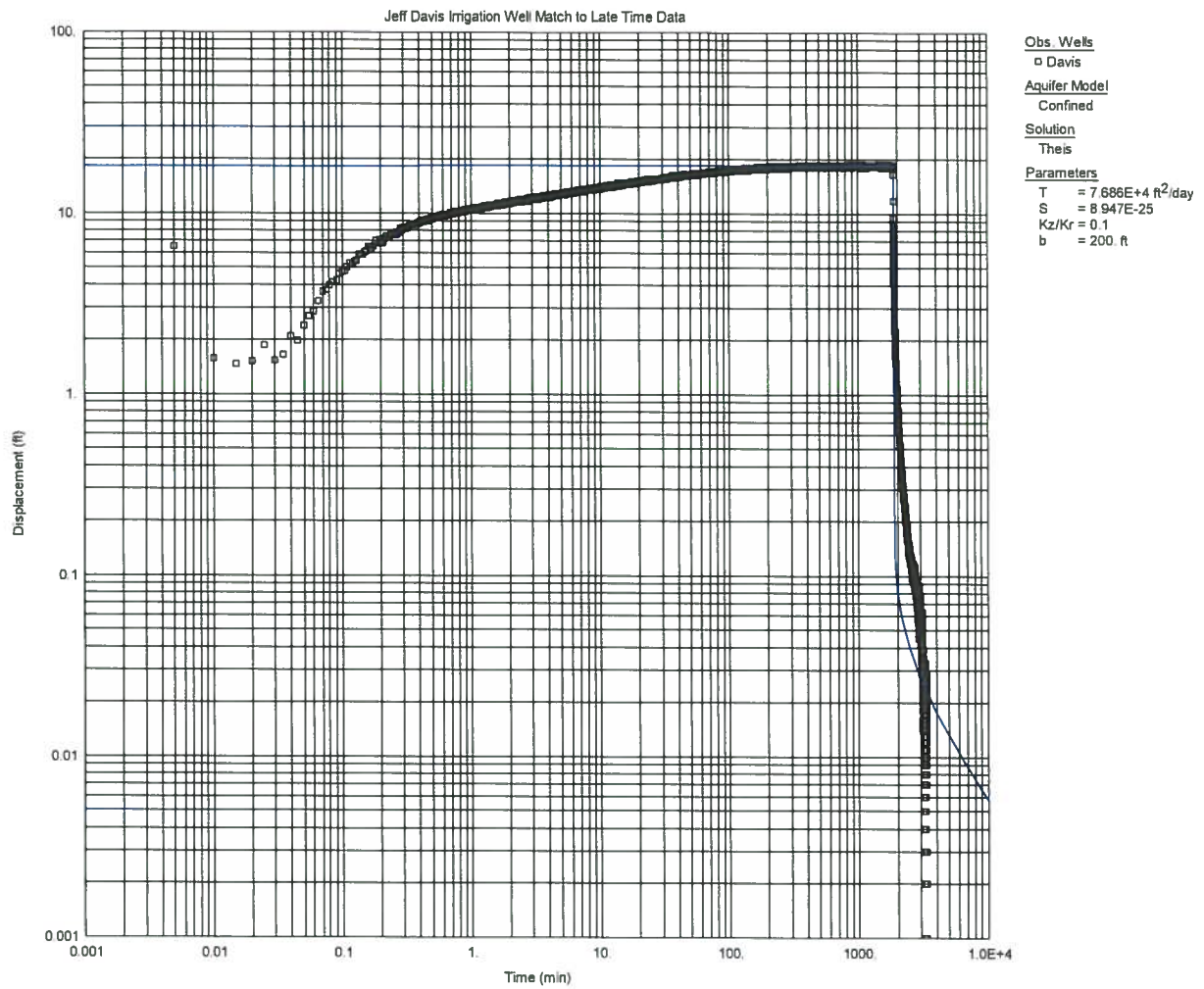


Figure 3-2 Theis unconfined solution matched to late time well data.



Attachment 4

AQUIFER IMPACT ANALYSIS



Table 4-1 Table of values used in AQTESOLV simulation.

Parameter	Value	Unit
Transmissivity	76,860	ft ² /d
Storativity	0.001	unitless
Flow Rate	1122	gpm
Duration	259,200	min
Total volume	893	ac-ft
aquifer thickness (b)	200	ft
kz/Kr	0.1	na

Table 4-2 Table of locations for various boundary corners and wells used in the AQESOLV simulation.

Location	x	y
NW Corner	0	50000
NE Corner	32000	50000
SW Corner	0	0
SE Corner	32000	0
Williams POD	6500	4,225
Well 1/2 mile Northwest	4655	8,345

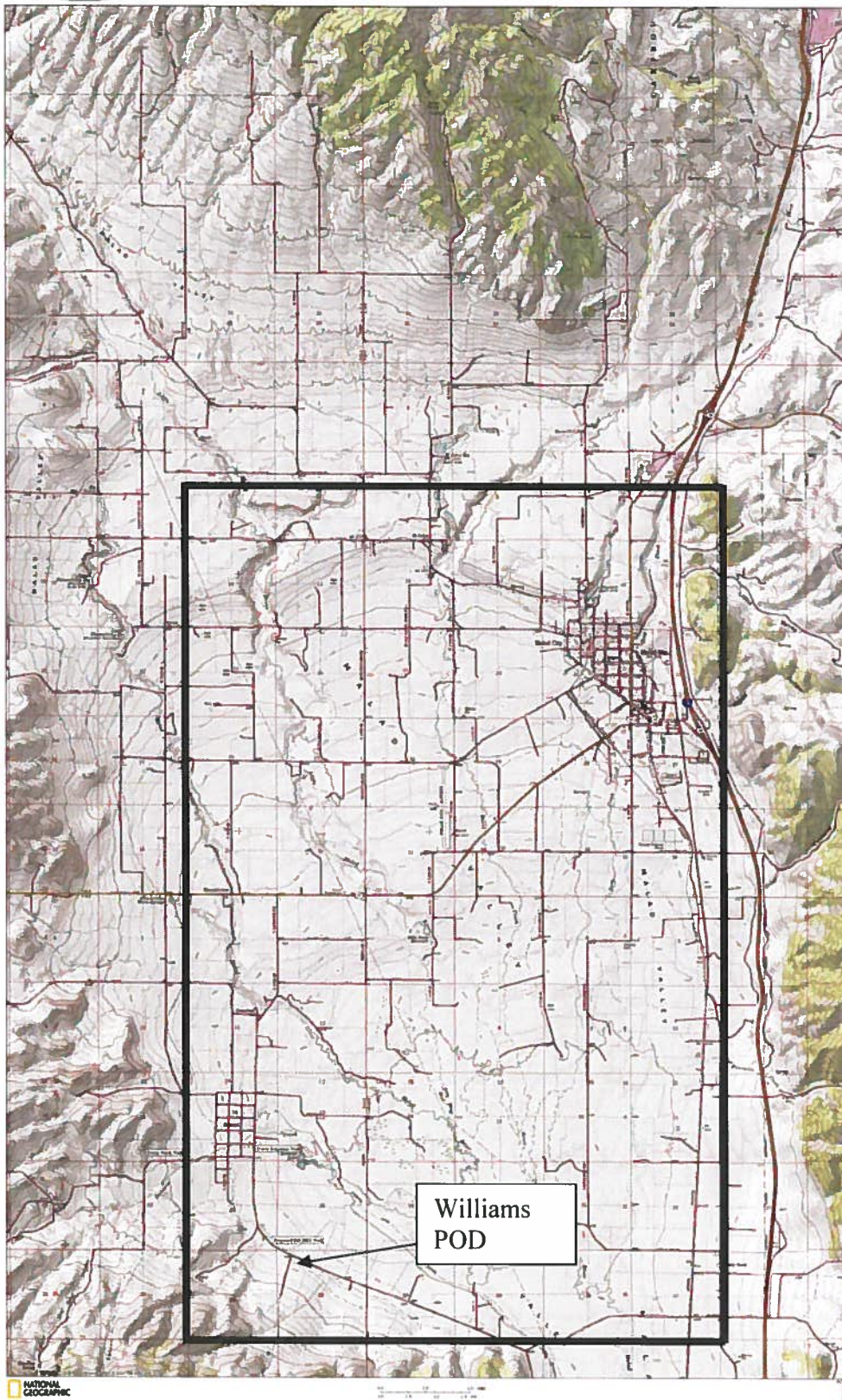


Figure 4-1 Outline of the boundaries used in the AQTESOLV forward solution calculation.

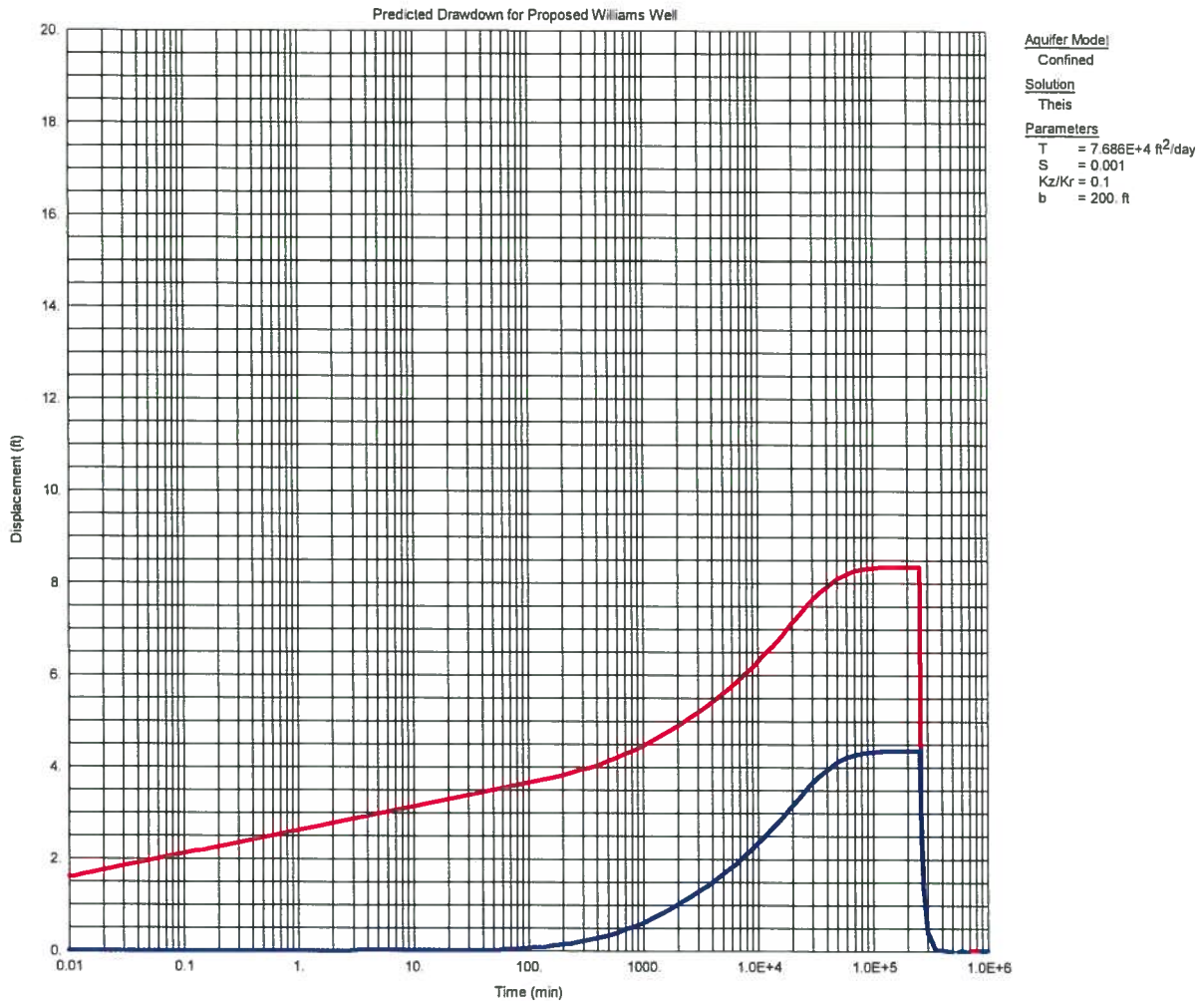


Figure 4-2 Predictive plot of drawdown at 1122 gpm or 2.51 cfs for the full period of use 180 days. The red line is for the water level in the proposed Williams Well and the blue line is the water level predicted in a well 1/2 mile northwest of the proposed Williams Well.

Key to line colors

Blue Water levels in an imaginary well 1/2 mile northwest of the proposed POD
Red Proposed POD water level during pumping



State of Idaho

DEPARTMENT OF WATER RESOURCES

900 N Skyline Dr., Ste A, Idaho Falls, Idaho 83402-1718

Phone: (208) 525-7161 FAX: (208) 525-7177 www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

January 9, 2014

MARCENE L WILLIAMS
THOMAS C WILLIAMS
2643 W SAMARIA RD
MALAD, ID 83252

Application For Permit No. 15-7373

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the IDAHO ENTERPRISE on January 16 and 23, 2014. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

A handwritten signature in blue ink that reads "Sharla Cox". The signature is written in a cursive, flowing style.

Sharla Cox
Administrative Assistant

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

15-7373

MARCENE L WILLIAMS

THOMAS C WILLIAMS

2643 W SAMARIA RD

MALAD, ID 83252

Point of Diversion

SWNE S25 T15S R35E

ONEIDA County

Source GROUND WATER Tributary

Use: IRRIGATION

04/01 to 10/31 2.51 CFS

Total Diversion: 2.51 CFS

Date Filed: 11/26/2013

Place Of Use: IRRIGATION

T15S R35E S25

NENE NWNE SWNE SENE NENW SENW NESW NWSE

T15S R36E S30

NWNW

Total Acres: 185

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Eastern Region office at (208) 525-7161. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Eastern Region, 900 N Skyline Dr Ste A, Idaho Falls ID 83402 together with a protest fee of \$25.00 for each application on or before February 3, 2014. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on January 16 and 23, 2014