

Comment Report

37-8596

*in lieu of
Beneficial Use Field
Report.*

1. csaxton 8/28/2012 7:50:03 AM POU
Comment: Updated Shape

2. csaxton 8/28/2012 7:50:20 AM POU
Comment: Updated SeasonOfUse

3. csaxton 8/28/2012 7:50:33 AM POU
Comment: Updated PLS

4. csaxton 8/28/2012 7:59:08 AM POD
Comment: Updated Shape

5. csaxton 8/28/2012 POD & Well Log
Comment: POD location digitized based on permit map and well log. Verified that that well was drilled with well log.

6. csaxton 8/28/2012 POU
Comment: End of development period is 1991. 1992 aerial photography supports irrigation as well as you can see that the home was built at that time. Later aerial photos indicate continuous irrigation use.

POU location verified with taxlot data. Taxlot data matches the permit holder of record.

7. csaxton 8/28/2012 Overlap
Comment: No overlapping rights for POD or POU.

8. csaxton 8/28/2012 Diversion Rate
Comment: Theoretical diversion rate calculation shows that the system can easily produce the permitted diversion rate. In addition the application for permit indicates that the system diverts 70 GPM or 0.16 cfs which is within the permitted diversion rate. The well log shows that the well was drilled before the application of permit was filed so it would make sense that the owner would already know the capacity of the system at the time the application was filed.

Theoretical calculation attached.

9. csaxton 8/28/2012 Diversion Volume
Comment: Diversion Vol:
Irrigation: 3 acres at 3.5 AF per acre = 10.5 AF
Domestic: Internal use standard of 0.6 AF

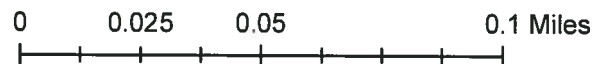
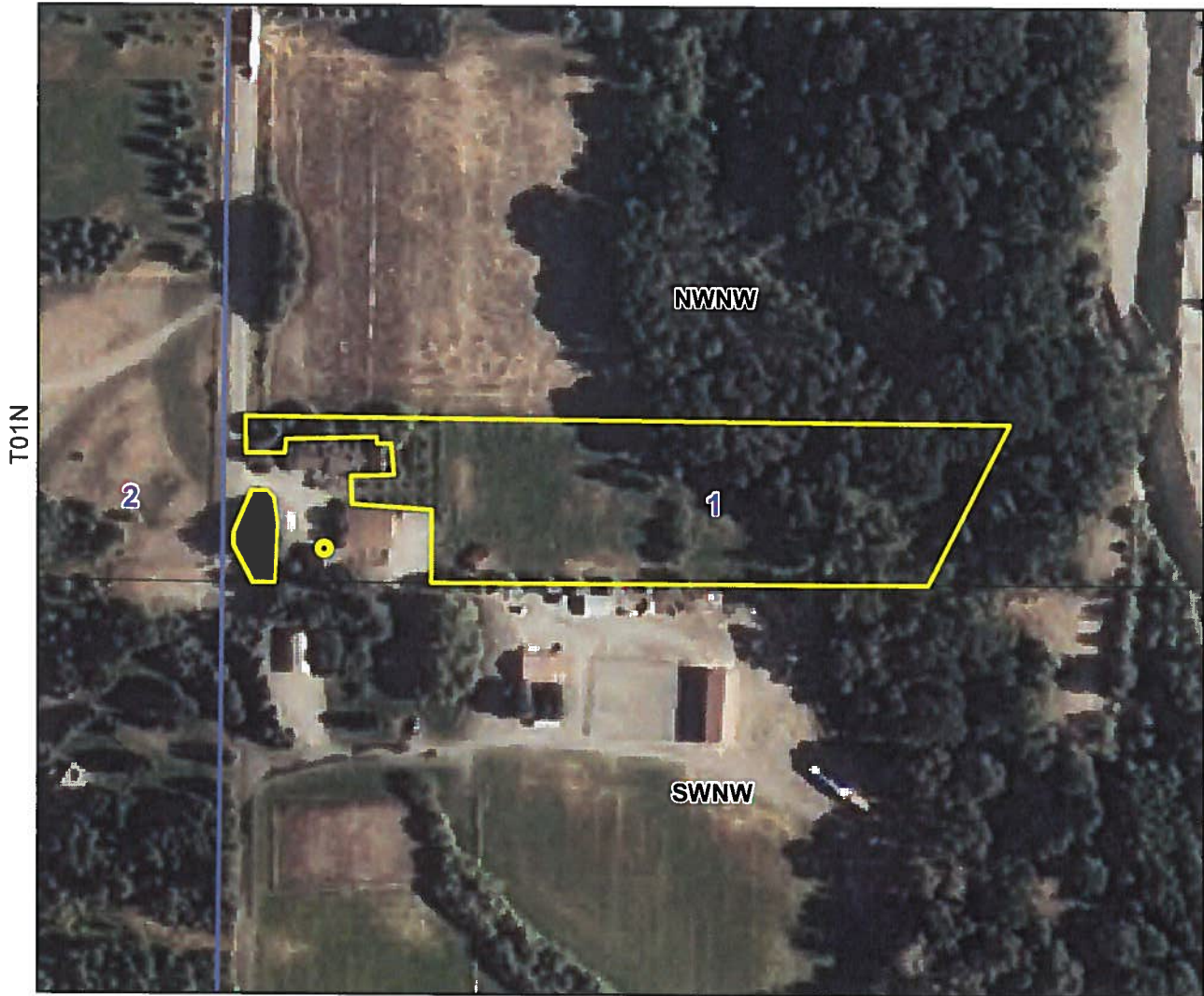
State of Idaho
Department of Water Resources

Reference Map

37-8596

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

R18E



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 37-8596
 Examiner: Craig L. Saxton
 Date of Field Exam: 8/28/2012

	Option 1	OPTION 2	OPTION 3	
P/D No.:				
PUMP HORSEPOWER	0.75	6	0	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	55	55	0	
DISCHARGE PRESSURE	50	50	0	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.03	0.22	0.00	Total
(gpm)	12.2	97.3	0.0	0.24 CFS 109.5 GPM

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Notes:

Well depth is 62 feet. Assumed pumping level at 55 feet based on well drillers pump test. However, since static water level is 4 feet, the pumping level of 55 feet is probably excessive.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>Joanne Lauder</u> Address <u>P.O. Box 103</u> <u>Sun Valley, Idaho 83353</u> Owner's Permit No. <u>37-90-S-0350*</u>		7. WATER LEVEL Static water level <u>4'</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow <u> </u> Artesian closed-in pressure <u> </u> p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u> </u> °F. Quality <u>Good</u> 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 ☐ Bailer ☒ Air ☐ Other <u> </u>																																																											
3. PROPOSED USE ☒ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other <u> </u> (specify type)		<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>75-107</u></td><td><u>55</u></td><td><u>1</u></td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	<u>75-107</u>	<u>55</u>	<u>1</u>																																																				
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other <u> </u>		9. LITHOLOGIC LOG <u>78305</u> <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td><u>8</u></td><td><u>0</u></td><td><u>4</u></td><td><u>gravel - Sand - Dirt</u></td><td></td><td></td></tr><tr><td></td><td><u>4</u></td><td><u>15</u></td><td><u>SAND - gravel</u></td><td></td><td></td></tr><tr><td></td><td><u>15</u></td><td><u>25</u></td><td><u>SAND - Boulder gravel</u></td><td></td><td></td></tr><tr><td></td><td><u>25</u></td><td><u>35</u></td><td><u>gravel - SAND</u></td><td></td><td></td></tr><tr><td></td><td><u>35</u></td><td><u>45</u></td><td><u>gravel - SAND</u></td><td></td><td></td></tr><tr><td></td><td><u>45</u></td><td><u>55</u></td><td><u>gray sand & gravel</u></td><td></td><td></td></tr><tr><td></td><td><u>55</u></td><td><u>58</u></td><td><u>clay - Brown - yellow</u></td><td></td><td></td></tr><tr><td></td><td><u>58</u></td><td><u>62</u></td><td><u>gray Broken Rock</u></td><td></td><td></td></tr></tbody></table>		Bore Diam.	Depth		Material	Water		From	To	Yes	No	<u>8</u>	<u>0</u>	<u>4</u>	<u>gravel - Sand - Dirt</u>				<u>4</u>	<u>15</u>	<u>SAND - gravel</u>				<u>15</u>	<u>25</u>	<u>SAND - Boulder gravel</u>				<u>25</u>	<u>35</u>	<u>gravel - SAND</u>				<u>35</u>	<u>45</u>	<u>gravel - SAND</u>				<u>45</u>	<u>55</u>	<u>gray sand & gravel</u>				<u>55</u>	<u>58</u>	<u>clay - Brown - yellow</u>				<u>58</u>	<u>62</u>	<u>gray Broken Rock</u>		
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other <u> </u> Thickness <u>250</u> inches Diameter <u>8</u> inches + <u>1</u> feet <u>60</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet 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>4</u> inches by <u>4</u> inches Number <u>45</u> From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ 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>20</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ 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 <u>SAN FAN, well cap</u>		RECEIVED MAY 22 1990 Department of Water Resources Southern Region Office RECEIVED MAY 25 1990 Department of Water Resources																																																											
6. LOCATION OF WELL Sketch map location must agree with written location. <table border="1"><tr><td colspan="2">N</td></tr><tr><td>1</td><td>2</td></tr><tr><td>3</td><td>4</td></tr><tr><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td></tr><tr><td>9</td><td>10</td></tr><tr><td colspan="2">S</td></tr></table> Subdivision Name <u>Scott's</u> Lot No. <u>6</u> Block No. <u>1</u> County <u>Blaine</u> NW 1/4 NW 1/4 Sec. <u>1</u> T. <u>1</u> S. <u>18</u> R. <u>18</u> W. <u>18</u>		N		1	2	3	4	5	6	7	8	9	10	S		10. Work started <u>5-11-90</u> finished <u>5-12-90</u>																																													
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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>Scott's Drilling</u> Firm No. <u>327</u> Address <u>P.O. Box 577</u> Date <u>5-15-90</u> <u>Walla Walla, Idaho 83383</u> <u>(808) 788-5019</u> Signed by (Firm Official) <u>John Alamo</u> and (Operator) <u>John Alamo</u>																																																													