

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-7564

Exam Date: 7/8/2013

1. Current Owner: STAN SCHWENDIMAN
12241 E 3749 N
NEWDALE ID 83436

And

JODY SCHWENDIMAN
12241 E 3749 N
NEWDALE ID 83436
(208)458-9807

2. Accompanied by: Spoke with Stan Schwendiman by phone after the field exam. (208) 313-7140

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Canyon Creek Lateral Ditch Association shares
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4NW1/4

Sec. 5, Twp 06N, Rge 42E, B.M.

MADISON County

Method of Determination: GPS during field exam

2. PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	42E	4											40.0	34.0					74.0
06N	42E	5						38.0	36.0			40.0	40.0						154.0
								L 4											
06N	42E	6									40.0			40.0	40.0	40.0	40.0	40.0	240.0
06N	42E	9					40.0	40.0											80.0

Total Acres: 548

Method of Determination: Aerial photography

D. FLOW MEASUREMENTS

Could not obtain a reliable measurement during field exam.

E. FLOW CALCULATIONS

Theoretical flow calculation = 7.0 cfs (see attached sheet)

Permit diversion rate = 3.33 cfs

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 548 \text{ acres} \times 3.5 \text{ af/acre} = 1,918 \text{ acre-feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 3.33 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 1,413.5 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1,413.5 \text{ acre-feet}$$

G. NARRATIVE/REMARKS/COMMENTS

Well/pump to sprinklers and pivots. 600 hp AC Squirrel Cage Machine motor with a 100 hp US Electrical booster. 50 psi observed at the well. Configuration of pumps and pipes makes it difficult to obtain a reliable measurement. Theoretical diversion rate is more than 7.0 cfs. Diversion rate listed on permit is only 3.33 cfs. Will issue license for permitted flow rate.

Canyon Creek Lateral Ditch Assn water rights are also used on the property. CCLDA rights are very junior in priority and do not really serve as primary water rights. Will issue license noting the overlap with CCLDA shares, but not making the ground water right supplemental.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	3.330 CFS	1,413.50 AF
<u>Totals:</u>		3.330 CFS	1,413.50 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Dave Carlson Date 7/8/2013

Reviewer _____ Date _____

well 22-7564
sec 5 SWNW



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

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.RECEIVED
USE TYPEWRITER OR
BALLPOINT PEN

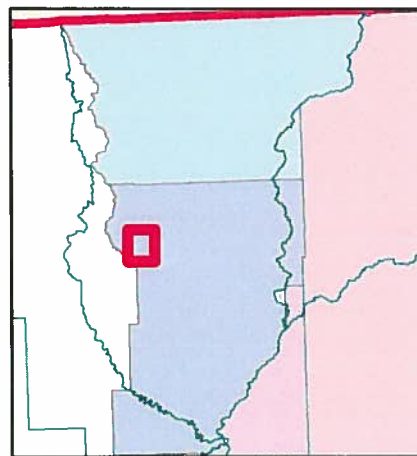
JUL 06 1992

1. WELL OWNER Name <u>Chantrell, Inc</u> Address <u>12241 E. 3749 N, Newdale</u> Drilling Permit No. <u>22-91-E-016</u> Water Right Permit No. <u>22-07564</u>		7. WATER LEVEL Static water level <u>490</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 <u>82</u> °F. Quality <u>good</u> Describe artesian or temperature zones below.																																																																																																																																																																																																																							
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)		8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ 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>1200</td><td>720</td><td>2</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	1200	720	2																																																																																																																																																																																																																
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <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>24</td><td>0</td><td>5</td><td>Top Soil Brown</td><td></td><td>X</td></tr><tr><td></td><td>5</td><td>10</td><td>Clay</td><td></td><td>X</td></tr><tr><td></td><td>10</td><td>13</td><td>Basalt firm gray</td><td></td><td>X</td></tr><tr><td></td><td>13</td><td>23</td><td>Basalt hard gray</td><td></td><td>X</td></tr><tr><td></td><td>23</td><td>25</td><td>Basalt fractured gray</td><td></td><td>X</td></tr><tr><td></td><td>25</td><td>28</td><td>Basalt hard gray</td><td></td><td>X</td></tr><tr><td></td><td>28</td><td>34</td><td>Basalt fractured gray</td><td></td><td>X</td></tr><tr><td></td><td>34</td><td>37</td><td>Basalt firm & brown clay</td><td></td><td>X</td></tr><tr><td></td><td>37</td><td>41</td><td>Cinders and clay</td><td></td><td>X</td></tr><tr><td></td><td>41</td><td>44</td><td>Basalt and clay brown</td><td></td><td>X</td></tr><tr><td></td><td>44</td><td>45</td><td>Basalt hard brown</td><td></td><td>X</td></tr><tr><td></td><td>45</td><td>50</td><td>Basalt Firm Brown</td><td></td><td>X</td></tr><tr><td></td><td>50</td><td>55</td><td>Gummy clay brown</td><td></td><td>X</td></tr><tr><td></td><td>55</td><td>61</td><td>Clay loose basalt brown</td><td></td><td>X</td></tr><tr><td></td><td>61</td><td>64</td><td>Basalt and clay loose br</td><td></td><td>X</td></tr><tr><td></td><td>64</td><td>70</td><td>Basalt loose clay gray</td><td></td><td>X</td></tr><tr><td></td><td>70</td><td>82</td><td>Basalt firm gray</td><td></td><td>X</td></tr><tr><td></td><td>82</td><td>86</td><td>Basalt loose gray</td><td></td><td>X</td></tr><tr><td></td><td>86</td><td>94</td><td>Basalt firm gray</td><td></td><td>X</td></tr><tr><td></td><td>94</td><td>120</td><td>Basalt Fractured Gray</td><td></td><td>X</td></tr><tr><td></td><td>120</td><td>124</td><td>Riolite firm fractured gray</td><td></td><td>X</td></tr><tr><td></td><td>124</td><td>128</td><td>Riolite and clay brown</td><td></td><td>X</td></tr><tr><td></td><td>128</td><td>143</td><td>Riolite and clay fract Br</td><td></td><td>X</td></tr><tr><td></td><td>143</td><td>157</td><td>Riolite & Clay frac. gr</td><td></td><td>X</td></tr><tr><td></td><td>157</td><td>170</td><td>Riolite & Clay Frac. br</td><td></td><td>X</td></tr><tr><td></td><td>170</td><td>192</td><td>Riolite broken brown</td><td></td><td>X</td></tr><tr><td></td><td>192</td><td>201</td><td>Riolite firm brown</td><td></td><td>X</td></tr><tr><td></td><td>210</td><td>211</td><td>Riolite & clay brown</td><td></td><td>X</td></tr><tr><td></td><td>211</td><td>262</td><td>Riolite & sand brown</td><td></td><td>X</td></tr><tr><td></td><td>262</td><td>286</td><td>Riolite firm brown</td><td></td><td>X</td></tr><tr><td></td><td>286</td><td>307</td><td>Riolite fractured brown</td><td></td><td>X</td></tr><tr><td></td><td>307</td><td>320</td><td>Riolite hard fractured gr</td><td></td><td>X</td></tr><tr><td></td><td>320</td><td>322</td><td>Riolite and sand hard gr</td><td></td><td>X</td></tr><tr><td colspan="6">**** See Attached Sheet for Cont. Lithologic Log footages</td></tr></tbody></table>		Bore Diam.	Depth		Material	Water		From	To	Yes	No	24	0	5	Top Soil Brown		X		5	10	Clay		X		10	13	Basalt firm gray		X		13	23	Basalt hard gray		X		23	25	Basalt fractured gray		X		25	28	Basalt hard gray		X		28	34	Basalt fractured gray		X		34	37	Basalt firm & brown clay		X		37	41	Cinders and clay		X		41	44	Basalt and clay brown		X		44	45	Basalt hard brown		X		45	50	Basalt Firm Brown		X		50	55	Gummy clay brown		X		55	61	Clay loose basalt brown		X		61	64	Basalt and clay loose br		X		64	70	Basalt loose clay gray		X		70	82	Basalt firm gray		X		82	86	Basalt loose gray		X		86	94	Basalt firm gray		X		94	120	Basalt Fractured Gray		X		120	124	Riolite firm fractured gray		X		124	128	Riolite and clay brown		X		128	143	Riolite and clay fract Br		X		143	157	Riolite & Clay frac. gr		X		157	170	Riolite & Clay Frac. br		X		170	192	Riolite broken brown		X		192	201	Riolite firm brown		X		210	211	Riolite & clay brown		X		211	262	Riolite & sand brown		X		262	286	Riolite firm brown		X		286	307	Riolite fractured brown		X		307	320	Riolite hard fractured gr		X		320	322	Riolite and sand hard gr		X	**** See Attached Sheet for Cont. Lithologic Log footages					
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☒ Cable ☐ Mud ☐ Other <u>20"</u> (backhoe, hydraulic, etc.)		10. Work started <u>4/23/91</u> finished <u>6/3/92</u>																																																																																																																																																																																																																							
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>.250 inches</td><td>20 inches</td><td>1 feet</td><td>19 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? _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ 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 _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ 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>19'</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 point <u>pipe</u>		Thickness	Diameter	From	To	.250 inches	20 inches	1 feet	19 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Andrew Well Drilling Services</u> Firm No. <u>5</u> Address <u>1268 E 17th St., Idaho Falls</u> Date <u>7/1/92</u> Signed by Drilling Supervisor _____ and _____ (Operator) <u>Garrel Onbolder</u> (If different than the Drilling Supervisor)																																																																																																																																																																																											
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6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Madison</u> SW ☐ NW ☐ SE ☐ S ☐ E ☐ T. <u>6N</u> S ☐ R. <u>42E</u> W ☐																																																																																																																																																																																																																									



Water Right
22-7564
(IRRIGATION)

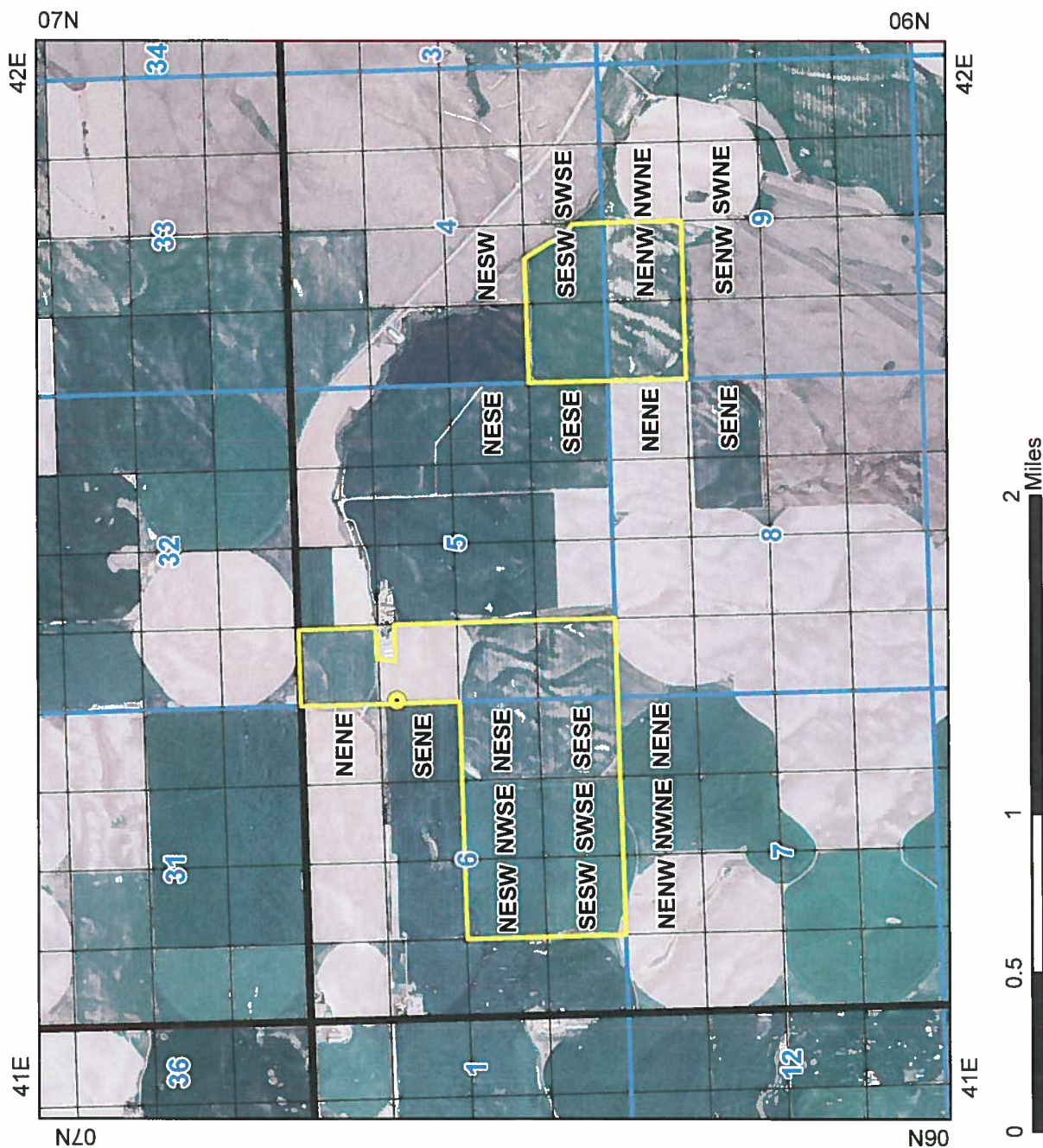
- Point of Diversion
 - Place of Use
 - State Outline
 - Townships
 - PLS Sections
 - Quarter Quarters



**Madison County
IDWR Basin 22**

Prepared by Carlson, Dave

2009 Aerial Photography



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 22-7564

Reviewer:

Date of Review:

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	600	0	0
BOOSTER HORSEPOWER	100	0	0
PUMPING LEVEL	500	0	0
DISCHARGE PRESSURE	50	0	0
RATE OF FLOW (cfs)	7.01	#DIV/0!	#DIV/0!

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.
No Friction

Examiners Notes: