

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-23000
Exam Date: 07/09/2024

1. Current Owner:

CLOVERLY RANCH LLC
50 GREENHORN RD
HAILEY ID 83333

2. Accompanied by: Juan Reyes

Phone No: 208-720-9697

Address:

Relationship to permit Holder: Foreman

3. **SOURCE:**

GROUND WATER

Method of Determination: Mr. Reyes pointed out the well upon my arrival for the exam.

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

Water Right No.	Source	Purpose of Use	Basis
37-2640B, 37-2507B	Ground Water	Irrigation	Decree
37-20842, 37-21239, 37-21241, 37-22601, 37-22603, 37-22605	Big Wood River	Irrigation, mitigation	Decree
37-22934, 37-22935, 37-22936	Big Wood River	Mitigation	Decree
37-22600, 37-22602, 37-22604	Big Wood River	Irrigation	Decree
37-11999, 37-12001	Ground Water	Domestic, Stockwater	Decree
37-4106	Spring	Irrigation	Decree

Comments: Rights 37-20842, 37-21239, 37-21241, 37-22601, 37-22603, and 37-22605 have a 'Mitigation by Non-use' component to reflect the acres dried up to mitigate for this application.

2. Other water rights with the same point-of-diversion:

Water Right No.	Source	Purpose of Use	Basis
37-2640B	Ground Water	Irrigation	Decree
37-2507B	Ground Water	Irrigation	Decree

Comments: Rights 37-2640B and 37-2507B are companion ground water irrigation rights to this right. Domestic and Stockwater rights on the property are diverted from another well.

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

GROUND WATER SW¼ NE¼, Sec. 32, Twp 03N, Rge 18E, B.M. BLAINE County

Method of Determination: Beneficial Use Field Exam site visit and ArcMap Aerial Imagery

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	32			5.7						4.9					11.0			21.6

Total Acres: 21.6

Method of Determination: Beneficial Use Field Exam site visit and ArcMap Aerial Imagery

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ X Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒ X☒ X Aerial Photo Attached (required for irrigation of 10+ acres).☒ X☒ X Photo of Diversion and System Attached☒ X

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0019235		10			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Installed Meter	Ultrasonic	Master Meter	Octave	45503816	4"	

2. Measurements: Noted that the installed meter was on the IDWR approved meter list and was installed properly. Photographed a reading of 208.4 gpm on the meter screen, which represents a flow rate of 0.46 cfs, slightly above the permitted rate of 0.43 cfs, so the licensed rate will be **0.43 cfs**.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: 208.4 gpm was measured, which equates to 0.46 cfs, above the permitted rate of 0.43 cfs, so the permitted rate will be licensed. $208.4/448.83 = 0.4643$ cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 21.6 \times 3.5 = 75.6 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.43 \times 200 \times 1.9835 = 170.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{75.6 \text{ AF}}$$

2. Volume Calculations for Other Uses: NA

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 37-23000 was conducted on July 9, 2024 with Juan Reyes, Cloverly Ranch foreman, in attendance. Water for this right, and the two associated ground water rights, is diverted from a well with a 10 HP submersible pump and piped underground to different types of sprinklers situated around the property to irrigate lawns, landscaping, pastures, and natural areas.

During the field exam, there was no evidence of surface water use on the property, and this satisfies the condition of approval requiring non-use of the surface water rights to mitigate for this permit. Additionally, there was a Master Meter Octave installed flowmeter placed in the delivery pipeline approximately 20' from the well. It was in a small pit underground, but appeared to be properly installed, so this meter was used to obtain the flow rate for the permit. A flow rate of 208.4 gallons per minute (0.46 cfs) was photographed and this rate is sufficient to justify licensing the permitted rate of 0.43 cfs. The volume for the irrigation will be calculated from the field headgate requirement of 3.5 AF/acre multiplied by the irrigated acres (21.6) for an annual volume of 75.6 AF.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
IRRIGATION	04/15 to 10/31	0.43 CFS	75.6 AF

Totals: 0.43 CFS 75.6 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Jim Bitzenburg Date 7-11-2024

Jim Bitzenburg - Water Rights Supervisor

Reviewer Ay Shin Date 7/19/2024



Point of Diversion - Well

Place of Use - Pasture



Cloverly Ranch, LLC 37-23000



Installed flowmeter showing flow rate at time of exam (208.4 gpm, or 0.46 cfs)

37-23000 POD/POU Map & System Diagram

Cloverly Ranch, LLC



Legend

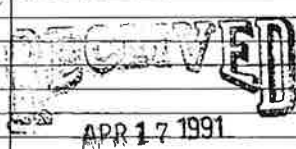
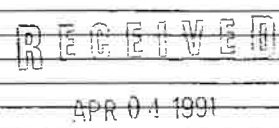
- Township/Range
- Sections
- QQ
- Parcels

Note: All water delivery lines are underground, so an accurate representation of their locations is not possible.

0 0.0325 0.065 0.13 Miles



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>Cloverly Farms John Chapman</u> Address <u>P.O. Box 2898 Boise, Id. 83701</u> Drilling Permit No. <u>37-91-S-008</u> - K Water Right Permit No. <u>37-026408 Part</u>	7. WATER LEVEL Static water level <u>12 ft.</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 _____ °F. Quality <u>good</u> <i>Describe artesian or temperature zones below.</i>																																																				
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 _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>200</td><td>60</td><td>1</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	200	60	1																																														
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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 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>8</td><td>0</td><td>5</td><td>Topsoil</td><td></td><td>X</td></tr><tr><td>8</td><td>5</td><td>17</td><td>Gravel and clay</td><td></td><td>X</td></tr><tr><td>8</td><td>17</td><td>32</td><td>Gravel and sand</td><td>X</td><td></td></tr><tr><td>6</td><td>32</td><td>36</td><td>Boulders</td><td>X</td><td></td></tr><tr><td>6</td><td>36</td><td>64</td><td>Gravel and sand</td><td>X</td><td></td></tr><tr><td>6</td><td>64</td><td>68</td><td>Gravel and clay</td><td></td><td>X</td></tr><tr><td>6</td><td>68</td><td>100</td><td>Gravel</td><td>X</td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	8	0	5	Topsoil		X	8	5	17	Gravel and clay		X	8	17	32	Gravel and sand	X		6	32	36	Boulders	X		6	36	64	Gravel and sand	X		6	64	68	Gravel and clay		X	6	68	100	Gravel	X	
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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	 APR 17 1991 Department of Water Resources  APR 04 1991 Department of Water Resources Southern Region Office																																																				
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>8 inches</td><td>1 1/2 feet</td><td>98 1/2 feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </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>1/8"</u> inches by <u>3</u> inches Number <u>400</u> perforations <u>60</u> feet <u>100</u> 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 ☐ Pudding 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 _____		Thickness	Diameter	From	To	250 inches	8 inches	1 1/2 feet	98 1/2 feet																																												
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6. LOCATION OF WELL Sketch map location <u>must</u> agree with written location. <table border="1"><tr><td>N</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>W</td><td></td><td></td><td></td><td>E</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Blaine</u> SW 1/4 NE 1/4 Sec. <u>32</u> , T. <u>3</u> N. R. <u>18</u> W. <u>4</u>	N										W				E																																						
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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. Wood River Drilling & Pump Inc. <u>2965</u> Firm Name _____ Firm No. _____ P.O. Box 420 Address <u>Bellevue, Id. 83313</u> Date <u>4/3/91</u> Signed by (Firm Official) <u>Ron Smith</u> and (Operator) <u>Boo McLaughlin</u>																																																					