

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

SEP 21 1994

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 37-08720

1. Owner: Faulkner Land & Livestock Co. Phone No. 934-4956

Current Address: 1989 S. 1875 E., Gooding, ID 83330

2. Accompanied by: John Faulkner EXAM. DATE: 7-12-93

Address: _____ Phone No. _____

Relationship to Permit Holder: Owner

3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-8005A, 8812, Northside Canal Co. shares

2. Other water rights with the same point of diversion: 37-8005B, 8812

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SE	SE	SW	31	6S	15E	Gooding	Aerial photo

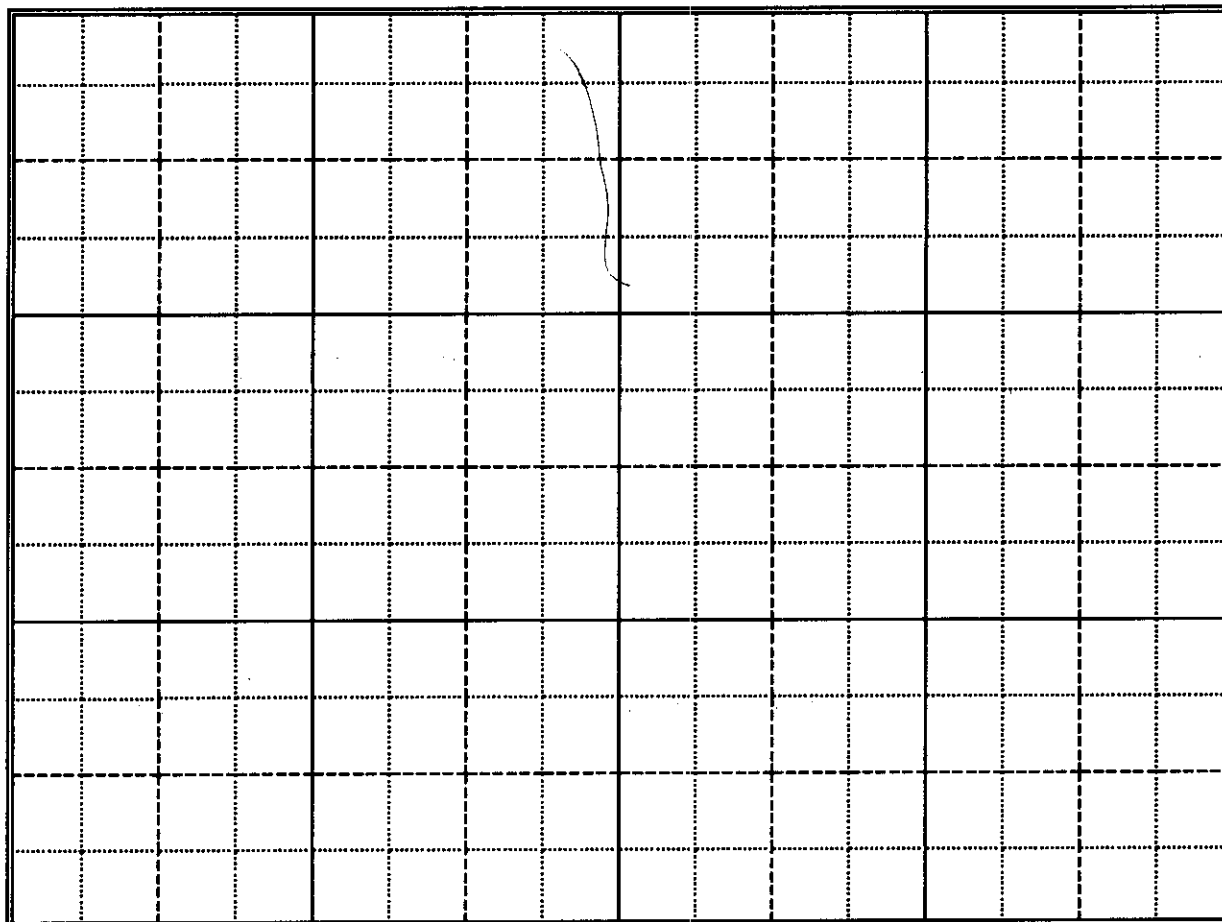
2. Place(s) of Use:

Indicate Method of Determination Aerial photo, dot grid

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
6S	15E	31		19.1	27.0		23.3			31.3	14.8		28.1	37.7	3.6	20.5	40	34.5	281.9
		~~31~~											~~28.1~~						~~281.9~~
7S	15E	5	Lt 1	Lt 2			Lt 3	Lt 4											50.9
			19.7	22.8			5.4	3.0											~~324~~
																			332.8

Not to exceed 160 acres per annum within above permissible place of use.

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable. *See attached system diagram)*



Scale: 1" = _____

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☒ Aerial Photo Attached (required for irrigation of 10+ acres)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Main Pump	US Motors	250	V01U302R090R-1	Layne & Bowler	LP 92193
Booster	"	60	V08V174R027R-4	"	LP 92632
"	"	60	V11V265R027M	"	LP 93033

*Code to correspond with No. on map and aerial photo

"

"

75 V11V265R028M

"

LP 93034

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Not measured - see below.

E. NARRATIVE/REMARKS/COMMENTS

Tried to measure system with 12" gannubor & manometer without success due to insufficient pressure in discharge pipe. Owner provided access port as required by permit.

System was using canal water during exam, but will probably move this to other lands now that well is available.

Owner stated that the well was designed to provide the same amount of water as needed by the re-lift pumps. Theoretical capacity of re-lift pumps (195 hp, 75 psi, 5' lift) is 6.74 cfs (3024 gpm). Owner claimed a capacity of 2700 gpm. This permit & the 2 licenses allow 6.04 cfs to be diverted onto 324 acres.

Theoretical well capacity (250 hp, 228' lift, 0 pressure) is 6.75 cfs. It is clear that this system can produce more than the allowable flow, and can certainly produce the full annual volume.

This system is irrigating 8.8 acres without a groundwater right. Not to exceed 324 acres when combined with 37-08005B & 37-08812. Not to exceed 0.02 cfs per acre and 4.0 AFA/acre for all rights combined on this property.

No amendment needed per telecom w/ Brenda Chapman 10-7-93.

Aerial photo appears to be a little off; based on quad map, there does not appear to be any land irrigated in Sec. 32.

Owner should be required to stop irrigating the 8.8-acre field on the west side of the canal unless a groundwater right is obtained for this property. This would allow for the least interference with the general operation of this system. Or a portion of the 11.7 acres between the 2 west pivots could be dewatered.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{324 \times 4}{160 \times 4} = 640$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 640 \text{ AFA}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4-1	10-31	3.2	640
Totals:			3.2	640

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

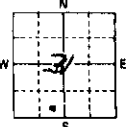
I. AUTHENTICATIONField Examiner's Name J. E. Stinton Date 10-7-93

Reviewer _____ Date _____

SEAL

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.

1. WELL OWNER Name <u>F. J. Kner Land & Livestock</u> Address <u>1989 S 1875 E Gooding</u> Drilling Permit No. <u>36-93-S-0152</u> Water Right Permit No. <u>36-2504</u>	7. WATER LEVEL Static water level <u>228</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>-25</u> °F. Quality _____ 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" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </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																																																																																																																															
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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" style="width: 100%; border-collapse: collapse;"><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>17</td><td>0</td><td>13</td><td>Top Soil</td><td></td><td></td></tr><tr><td>17</td><td>13</td><td>16</td><td>Bl Lava</td><td></td><td>X</td></tr><tr><td>15</td><td>16</td><td>19</td><td>11</td><td></td><td></td></tr><tr><td></td><td>19</td><td>28</td><td>Gray Lava</td><td></td><td></td></tr><tr><td></td><td>28</td><td>29</td><td>Gravasse</td><td></td><td></td></tr><tr><td></td><td>29</td><td>31</td><td>Br Clay</td><td></td><td></td></tr><tr><td></td><td>31</td><td>37</td><td>Gray Lava</td><td></td><td></td></tr><tr><td></td><td>37</td><td>39</td><td>Red Lava</td><td></td><td></td></tr><tr><td></td><td>39</td><td>44</td><td>Red Sandy Clay</td><td></td><td></td></tr><tr><td></td><td>44</td><td>136</td><td>Gray Lava</td><td></td><td></td></tr><tr><td></td><td>136</td><td>143</td><td>Broken Bl Lava</td><td></td><td></td></tr><tr><td></td><td>143</td><td>218</td><td>Bl Lava</td><td></td><td></td></tr><tr><td></td><td>218</td><td>224</td><td>Soft Broken Red + bl Lava</td><td></td><td></td></tr><tr><td></td><td>224</td><td>240</td><td>Gray Lava</td><td></td><td></td></tr><tr><td></td><td>240</td><td>244</td><td>Broken Red + bl Lava</td><td></td><td>X</td></tr><tr><td></td><td>244</td><td>255</td><td>Bl Lava</td><td></td><td></td></tr><tr><td></td><td>255</td><td>258</td><td>Gray Lava</td><td></td><td></td></tr><tr><td></td><td>258</td><td>263</td><td>Soft Broken Red + bl Lava</td><td></td><td>X</td></tr><tr><td></td><td>263</td><td>270</td><td>Red + bl Cinders</td><td></td><td>X</td></tr><tr><td></td><td>270</td><td>280</td><td>Gray Lava</td><td></td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	17	0	13	Top Soil			17	13	16	Bl Lava		X	15	16	19	11				19	28	Gray Lava				28	29	Gravasse				29	31	Br Clay				31	37	Gray Lava				37	39	Red Lava				39	44	Red Sandy Clay				44	136	Gray Lava				136	143	Broken Bl Lava				143	218	Bl Lava				218	224	Soft Broken Red + bl Lava				224	240	Gray Lava				240	244	Broken Red + bl Lava		X		244	255	Bl Lava				255	258	Gray Lava				258	263	Soft Broken Red + bl Lava		X		263	270	Red + bl Cinders		X		270	280	Gray Lava		
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	10. Work started <u>5-10-93</u> finished <u>5-15-93</u>																																																																																																																																		
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>25 inches</td><td>16 inches</td><td>1 feet</td><td>16 feet</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? _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </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>18</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>Welded Steel plate</u> <u>2" pipe + cap</u>	Thickness	Diameter	From	To	25 inches	16 inches	1 feet	16 feet									Number	From	To																																																																																																																
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Gooding</u> Address of Well Site <u>SE 1/4 SW 1/4 Sec. 31 T. 6 N. R. 15 E.</u> (give at least name of road) <u>SE 1/4 SW 1/4 Sec. 31 T. 6 N. R. 15 E.</u>	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>Eaton Drilling</u> Firm No. <u>26</u> Address <u>Wendell</u> Date _____ Signed by Drilling Supervisor <u>[Signature]</u> and <u>[Signature]</u> (Operator) <u>[Signature]</u> (If different than the Drilling Supervisor)																																																																																																																																		

37-8720



Re-lift Pumps & Pond



Closeup of Pumps

P/u



37-8720



Pump & Mainline



Access Port & Annubar

Well
Discharge
Into Pond

