

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-7521

Exam Date: 7/9/2013

1. Current Owner: CITY OF KELLOGG
1007 MC KINLEY AVE
KELLOGG ID 83837
(208) 786-9131
2. Accompanied by: Mark Hendzel

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

GROUND WATER NW1/4SW1/4 Sec. 5, Twp 48N, Rge 03E, B.M. SHOSHONE County

Method of Determination: GPS and Maps. POD location at 47° 32.111, 116° 06.866 (A0003217)

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	
48N	03E	5											5.0						5.0
48N	03E	6															5.0		5.0

Total Acres: 10

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. 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.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
		5 HP			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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N/A

2. Measurements:

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO ATTACH FLOW METER TO SYSTEM. HOSES USED FOR IRRIGATION.
THEORETICAL PUMPING EQUATION USED AND ESTIMATED FLOW AT 98 GPM OR 0.21 CFS, SEE ATTACHED.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 10 \text{ AC} \times 3 \text{ AF} = 30 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.20 \times 214 \times 1.9835 = 84.9 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 30 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

IRRIGATION OF 10 ACRES AT KELLOGG CEMETARY. UNABLE TO GET FLOW MEASUREMENT BECAUSE SYSTEM USED GARDEN HOSES WITH BURIED PIPE TO SPICKETS. THEORETICAL PUMPING EQUATION USED TO ESTIMATE FLOW AT 98 GPM OR 0.21 CFS. LICENSE WILL BE ISSUED FOR 0.20 CFS WHICH IS WHAT WAS PERMITTED.

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	0.200 CFS	30.00 AF
<u>Totals:</u>		0.200 CFS	30.00 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



Date

5-6-2015

Reviewer



Date

5-6-2015

State of Idaho
Department of Water Resources
Water Right License
94-7521



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

0 0.05 0.1 0.2 Miles



PUMP EQUATIONS**WATER RIGHT No. 94-7521**

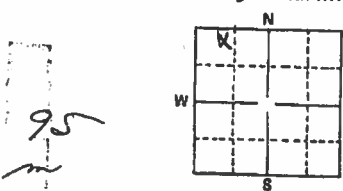
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \times 8.8 \times \text{Eff}}{H}$	5	160.9524	0.8	80	35
Q = 0.219 cfs 98.3 gpm					

WELL DRILLER'S REPORT

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

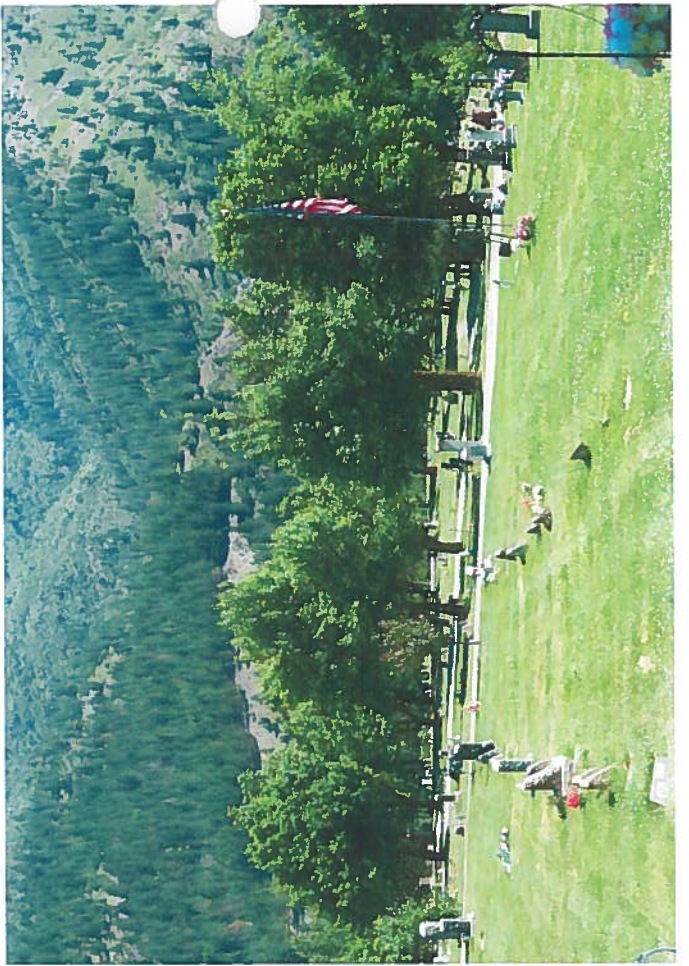
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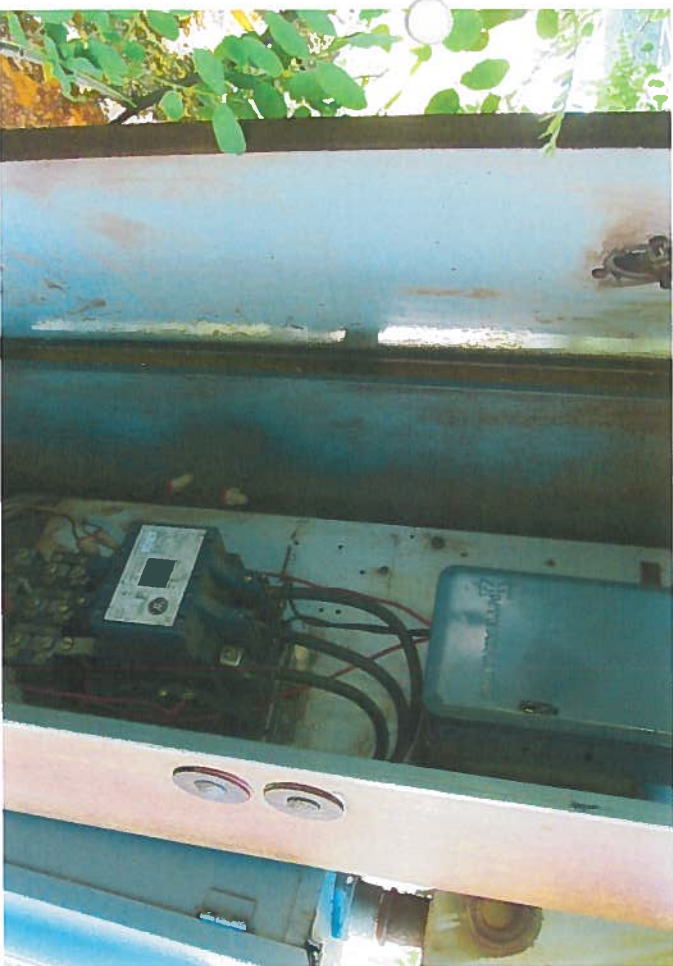
1. WELL OWNER Name <u>Kellogg Community Dist.</u> Address <u>Kellogg IDAHO</u> Owner's Permit No. <u>95-73-N-77</u>		7. WATER LEVEL Department of Water Resources Northern District Office Static water level <u>30</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature <u>Cold</u> ° F. Quality <u>Good Taste</u> Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																									
2. NATURE OF WORK <u>94-73-N-26</u> ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Other <u>AIR</u> Discharge G.P.M. <u>70</u> Draw Down <u>72'</u> Hours Pumped <u>2</u>																																									
3. PROPOSED USE ☒ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole 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>19</td><td>SAND + GRAVEL SOME CLAY CONTINUT</td><td></td><td>X</td></tr><tr><td></td><td>19</td><td>33</td><td>SAND + GRAVEL - VERY SILTY</td><td></td><td>X</td></tr><tr><td></td><td>33</td><td>53</td><td>SAND + GRAVEL WITH CLAY CONTINUT</td><td></td><td>X</td></tr><tr><td></td><td>53</td><td>72</td><td>GRAVEL WITH SOME SAND</td><td></td><td>X</td></tr><tr><td></td><td>72</td><td>82</td><td>Rock HARD PAN</td><td></td><td>X</td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8	0	19	SAND + GRAVEL SOME CLAY CONTINUT		X		19	33	SAND + GRAVEL - VERY SILTY		X		33	53	SAND + GRAVEL WITH CLAY CONTINUT		X		53	72	GRAVEL WITH SOME SAND		X		72	82	Rock HARD PAN		X
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4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other		OFFICE USE ONLY Inspected by <u>TDK</u> Twp <u>48N</u> Rge <u>3E</u> Sec <u>5</u> <u>SW 1/4 NW 1/4 SW 1/4</u>																																									
5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>82</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>.025</u> inches Diameter <u>8</u> inches From <u>1</u> feet To <u>72</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☒ Torch Size of perforation <u>.025</u> inches by <u>12</u> inches Number _____ From _____ To _____ <u>40</u> perforations <u>52</u> feet <u>72</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? ☒ Yes ☐ No To what depth <u>20</u> feet Material used in seal ☐ Cement grout ☒ Puddling clay																																											
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Shoshone</u> Twp <u>48N</u> Rge <u>3E</u> Sec <u>5</u> <u>SW NW SW</u> <u>5</u> <u>48N</u> <u>3E</u>				10. Work started <u>24 AUG 73</u> finished <u>26 AUG 73</u>																																							
11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>ADNA DRILLING + DEVELOPMENT INC</u> Driller's or Firm's Name _____ Number <u>163</u> <u>P.O. Box 1002 CDA, IDAHO</u> Address _____ <u>Richard Brown</u> Signed By _____ Date <u>9-10-73</u>				RECEIVED APR 14 1998 Department of Water Resources MICROFILMED JUN 24 1998																																							

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT



94-7511



94-752.1





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SYSTEM.JPG



USE 1.JPG



USE 3.JPG



POWER.JPG



POWER 1.JPG



POWER 2.JPG



TAG.JPG



WELL.JPG



USE.JPG