

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8580

Exam Date: 7/10/12

1. Current Owner: JANICE LLOYD
2798 NORTH WENDELL RD
WENDELL ID 83355
(208)536-2345
2. Accompanied by: See narrative
Phone No:
Address:
Relationship to Permit Holder:

3. **SOURCE** **TRIBUTARY**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NSCC 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 NE1/4NE1/4 Sec. 35, Twp 07S, Rge 14E, B.M.
GOODING County

Method of Determination: GPS, Tag A0005535, WMIS 100114

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
07S	14E	35	35.0																35.0

Total Acres: 35

Method of Determination: Bing Maps Aerial Photography (2010)

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 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 Size</u>
A0005535	?	25	?	?	?

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: **Not running, well is supplemental, usually use canal water...****E. FLOW CALCULATIONS**

____ Additional Computation Sheets Attached

Measured Method: Theoretical

$$Q = \frac{(8.8) \times (H.P.) \times (Eff.)}{TDH \text{ or } (Lift) + (PSI \times 2.31)} = \frac{(8.8) \times (25 \text{ hp}) \times (70\%)}{(115') + (45 \text{ psi} \times 2.31)} = \frac{154}{218.95} = \underline{0.70 \text{ cfs}}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 35 \text{ ac} \times 4 \text{ AF/ac} = 140 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.7 \text{ cfs} \times 246 \times 1.9835 = 341.5 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{140 \text{ AFA}}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

I reached Janice Lloyd by phone on June 13, 2012. She said her husband Carl had passed away in 1995 and that her son currently lives at this address and operates the farm, while she has moved to 2798 N Wendell Rd in Wendell. I confirmed this listing in the phone book. She indicated that she didn't think the well had been used in awhile and that they mostly irrigate with their canal shares. I called her son, Martin Lloyd, who confirmed he hadn't used the well this year and that it is mainly used for back-up on dry years. He said the meter for the pump is located on the west side of the pole and the meter for the canal shares is located on the east side of the pole. He did say he could turn it on if we had to have a measurement and to let him know in advance if he needed to do so. I visited the site on July 10, 2012 and confirmed the well's location, tag A0005535 on the pole, and that irrigation was taking place. The canal water was off at the time as he had his hay down. There was no demand on either meter. I obtained some information from the well driller, Eaton Drilling, and they said they installed a 25 hp submersible pump set at 115 feet. The well was 172 feet deep, cased to 59 feet, with 4 inch pipe and 8/4 wire. A theoretical equation based on this information showed the well was capable of producing the permitted amount of 0.70 cfs for the 35 acres of irrigation found. The well is capable of producing the 4 AF/ac standard volume for the area. The License should be issued to Janice Lloyd only and have supplemental conditions.

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	03/15 to 11/15	0.700 CFS	140.00 AF
	<u>Totals:</u>	0.700 CFS	140.00 AF

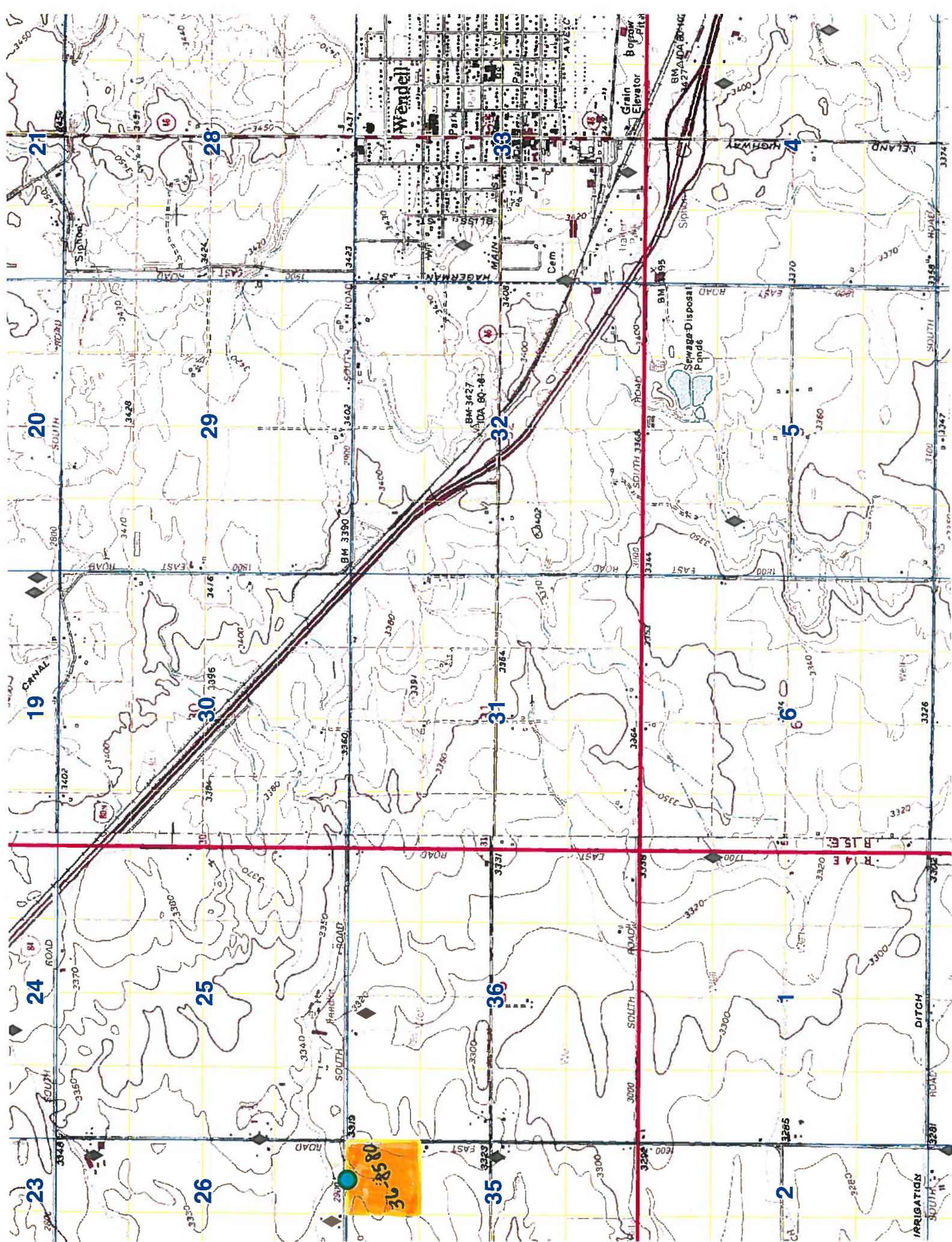
2. Recommended Amendments

☐ 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

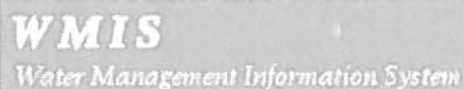
I. AUTHENTICATION

Field Examiner's Name Jamie Robertson Date 8/11/12
Reviewer [Signature] Date 8/28/12





Idaho Department of Water Resources



Quick Search:

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Search Method:

WMIS Number

WMIS Number

100114

You are logged in as cyenter

[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)

Point Of Diversion

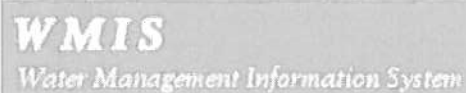
You are viewing 100114; A0005535

[Edit](#) WMIS Number 100114 Network Well No
Reporting District North Snake GWD Access Power Yes
Measurement Option Timeclock (7) Water District 130
Metal Tag Number A0005535 Tag Location
Followup Date 1/1/2011 12:00:00 AM Comments GET OUT AND CONFIRM THIS. If there is a clock, collect some data. cy. 1.11 Permit 36-8580. SUFFICIENT CANAL WATER, WILL NOT DIVERT FROM WELL (8.30.95 GARYS) NSG changed option to 7 in 2003. (cy)
Diversion Name

[Search Water Rights](#)[Contacts](#) [PLSS](#) [Spatial Data](#) [Water Source](#) [Water Rights](#)

Water Right Number	Owner Type	Owner Name	Address	Phone	City/State/Zip	Email
36-8580	Current Owner	LLOYD, CARL	2911 S 1600 E	(208) 536-2345	WENDELL, ID 83355	
36-8580	Current Owner	LLOYD, JANICE	2911 S 1600 E	(208) 536-2345	WENDELL, ID 83355	

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Data Summary

You are viewing 100114; A0005535

Report Year	Alternate	FM	PCC	Time Clock
2011				
2010				
2007				
2006				
2005				
2004				
2003				
1997		0.00		
1996		0.00		
1995		0.00		

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Search

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Time Clock Data

You are viewing 100114; A0005535

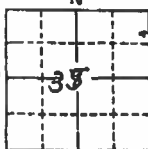
[Click here to insert a new record.](#)

Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2011				
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated
		Preferred	Comments			
			No device found.			
Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2010				
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated
		Preferred	Comments			
			No flow meter or Time Clock			
Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2007				Zero Pumpage
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated
		Preferred	Comments			
			no report - IPCO shows power use but kw data is consistent with surface booster HP only (20-30 kw). Presume no use for now but NEED DATA. cy.			
Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2006				
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated

		Preferred	Comments			
			No readings received. bdh			
Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2005				No Monthly Recordings
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated
		Preferred	Comments			
Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2004				No Monthly Recordings
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated
						Validated by IDWR
		Preferred	Comments			
			NO DATA REPORTED			
Edit	Delete	Report Year*	Average GPM	Average CFS	Acre Feet Volume	Acre Feet Qualifier
		2003				No Monthly Recordings
		Flow Verification Date	Start Time	End Time	Operating Hours	Validated
						Validated by IDWR
		Preferred	Comments			
			changed option, no op hours reported			

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>Carl Lloyd</u> Address <u>2911st 1600^e Wendell Id 83355</u> Drilling Permit No. <u>36-92-S-008-000</u> Water Right Permit No. <u>36-08580</u> <u>OL</u>	7. WATER LEVEL Static water level <u>93'</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>-85^oF.</u> Quality _____ 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 ☐ Bailor ☒ Air ☐ Other _____ <table border="1" style="width:100%"><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																						
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <u>87126</u> <table border="1" style="width:100%"><thead><tr><th>Bore Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td>10"</td><td>0</td><td>4</td><td>Top Soil</td><td>X</td></tr><tr><td>8"</td><td>4</td><td>19</td><td>gray lava</td><td> </td></tr><tr><td>8"</td><td>19</td><td>21</td><td>Red + bl. Lava</td><td> </td></tr><tr><td> </td><td>21</td><td>26</td><td>bl. Lava</td><td> </td></tr><tr><td> </td><td>26</td><td>34</td><td>Red Sand + Clay</td><td> </td></tr><tr><td> </td><td>34</td><td>46</td><td>Gray Clay</td><td> </td></tr><tr><td> </td><td>46</td><td>64</td><td>bl. Lava</td><td> </td></tr><tr><td> </td><td>64</td><td>87</td><td>Crevasse No returns</td><td> </td></tr><tr><td> </td><td>87</td><td>89</td><td>Hard</td><td> </td></tr><tr><td> </td><td>89</td><td>92</td><td>Soft</td><td> </td></tr><tr><td> </td><td>92</td><td>93</td><td>bl. Lava Returns back</td><td> </td></tr><tr><td> </td><td>93</td><td>94</td><td>Crevasse</td><td> </td></tr><tr><td> </td><td>94</td><td>96</td><td>bl. Lava</td><td> </td></tr><tr><td> </td><td>96</td><td>99</td><td>Soft bl. + Red Lava</td><td>X</td></tr><tr><td> </td><td>99</td><td>111</td><td>bl. Lava</td><td> </td></tr><tr><td> </td><td>111</td><td>113</td><td>Soft broken bl. Lava</td><td> </td></tr><tr><td> </td><td>113</td><td>116</td><td>bl. Lava + Gray Clay Tab.</td><td>X</td></tr><tr><td> </td><td>116</td><td>126</td><td>bl. Lava</td><td> </td></tr><tr><td> </td><td>126</td><td>127</td><td>Crevasse</td><td> </td></tr><tr><td> </td><td>127</td><td>130</td><td>Soft</td><td>X</td></tr></tbody></table>	Bore Diam.	Depth From	To	Material	Water Yes No	10"	0	4	Top Soil	X	8"	4	19	gray lava		8"	19	21	Red + bl. Lava			21	26	bl. Lava			26	34	Red Sand + Clay			34	46	Gray Clay			46	64	bl. Lava			64	87	Crevasse No returns			87	89	Hard			89	92	Soft			92	93	bl. Lava Returns back			93	94	Crevasse			94	96	bl. Lava			96	99	Soft bl. + Red Lava	X		99	111	bl. Lava			111	113	Soft broken bl. Lava			113	116	bl. Lava + Gray Clay Tab.	X		116	126	bl. Lava			126	127	Crevasse			127	130	Soft	X
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	RECEIVED FEB 11 1992 Department of Water Resources Southern Region Office DEC 04 1992																																																																																																									
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="0" style="width:100%"><tr><td>Thickness</td><td>Diameter</td><td>From</td><td>To</td></tr><tr><td><u>2.50</u> inches</td><td><u>8"</u> inches</td><td><u>1</u> feet</td><td><u>19</u> 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><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></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="0" style="width:100%"><tr><td>Number</td><td>From</td><td>To</td></tr><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></table> 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 _____ 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>Steel pipe</u>		Thickness	Diameter	From	To	<u>2.50</u> inches	<u>8"</u> inches	<u>1</u> feet	<u>19</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																																									
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6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Gooding</u> Subdivision Name _____ Lot No. _____ Block No. _____ N ☐ E ☐ NE ☐ SE ☐ SW ☐ NW ☐ T. <u>7</u> S. <u>14</u> W. <u>14</u>	10. Work started <u>2-4-92</u> finished <u>2-4-92</u>																																																																																																									
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>Eaton drilling</u> Firm No. <u>26</u> Address <u>Wendell</u> Date <u>2-5-92</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>Dave Crosby</u>	11. Work started _____ finished _____																																																																																																									

- submersible
pump size? 25 h.p.
pump curve?

set set @ 115' deep

total 172' deep

cased 59'

4" pipe

wire = 8,4

36-8580



pump



submersible
pump

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: _____
DATE: _____
BY: _____

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS
H.P. = Total Brake Horsepower of pumping plant (including booster)
EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)
TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]
LIFT = depth to water in FEET from land surface to pumping water level
PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (25) \times (0.70)}{[(115) + (30 \times 2.31)]} = \frac{154}{184.3} = 0.84$$

LIFT FROM:	PSI FROM:	NOTES ON PUMP:
measurement ()	measurement ()	Motor Make, Serial or ID
owner ()	owner ()	
area estimate ()	estimate (✓)	Pump Make, Serial or ID, rating
well logs (✓)	owner gage ()	
	Booster (Y) (N)	
REMARKS	✓ caton drilling said they set pump @ 115' (well is 170' deep)	

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	
3/15 - 11/15	246	
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	

POTENTIAL = $\frac{(246) \times (1.98) \times (0.7)}{(35)} = 341 \text{ AFA or } 10 \text{ AF/Ac.}$

REQUIRED Acre Feet/Acre/Annum = 140
(AF/Ann/Ac irrigation requirement from chart for area)
NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY (✓)
IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()