

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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NOV 30 2018
DEPARTMENT OF
WATER RESOURCES

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-336391. Owner Snake River Dairies LLCPhone No. 208-495-2034Current address 15188 S Can-Ada Rd, Melba, ID 836412. Examiner's name Scott N. King, P.E. (Examiner No. 133)EXAM DATE July 6, 20173. Accompanied by Jerry Tlucek

Email _____

Address _____

Relationship to permit holder Owner

Phone No. _____

4. Source Ground Water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-7270A & 63-7270B2. Other water rights with the same source and point of diversion 63-7270A, 63-7270B, 63-8604, 63-11777**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

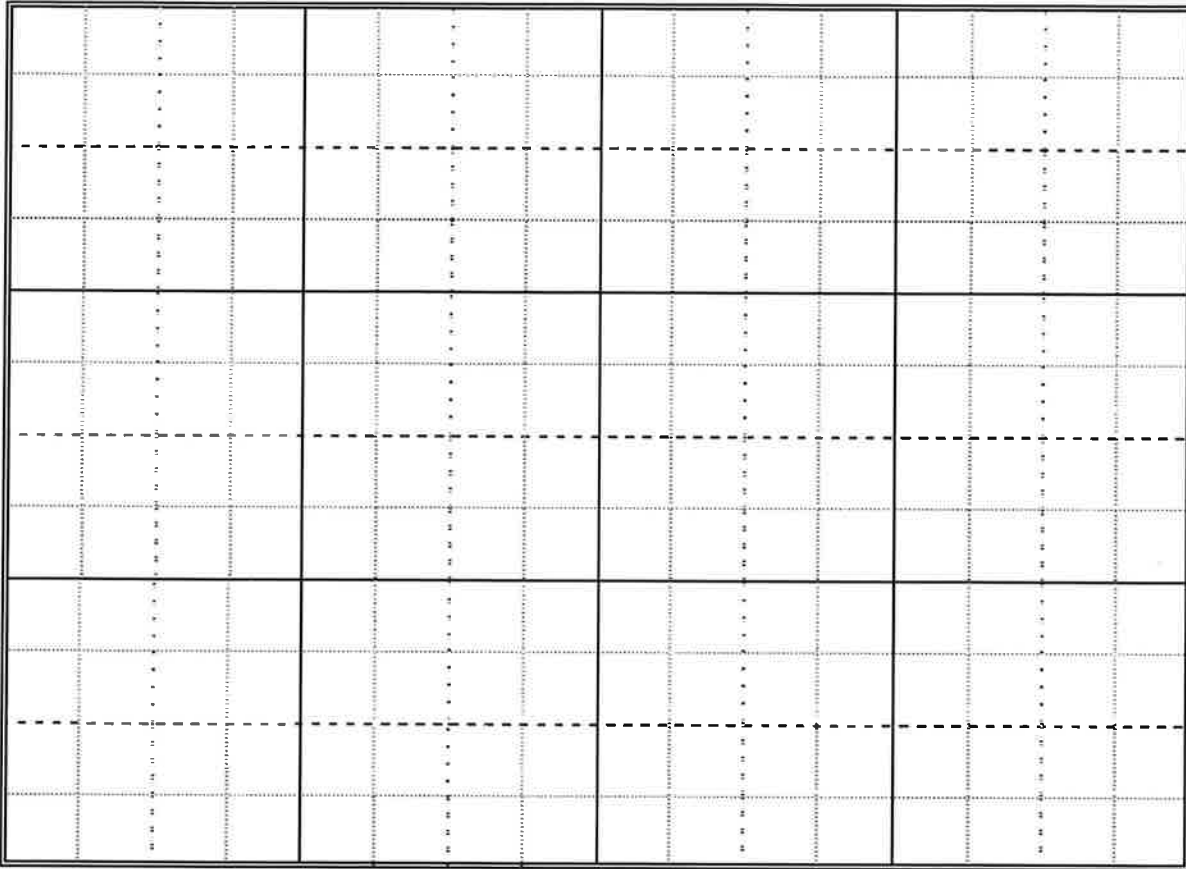
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
S20			SE	SE	20	1S	1W	Ada	Field Exam, 2015 Aerial Photo, GPS
S29			NW	NW	29	1S	1W	Ada	

2. Place(s) of Use:

Method of determination Field Exam, 2015 Aerial Photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
1S	1W	20				1									38	20	25	39	123
						L4													
		29	31	4		1													36
						L2													
																		Total	159

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



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
S20	US Motors	200	9601324-656	Layne & Bowler	SN# 44693
S29	US Motors	150	U047558690-0006	Vertiline	V74-00190

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
S20 Permanent Flowmeter	Magnetic	McCromet	MX08-W	MX13-0227	8-in	n/a
S29 Permanent Flowmeter	Magnetic	McCromet	MX08-W	MX13-0228	8-in	n/a

2. **Measurements:** _____

S20 Well: 1.41 cfs (1977 licensing exam for 63-7270); 1.63 cfs (2013 licensing exam for 63-11777)

S29 Well: 2.72 cfs (1984 licensing exam for 63-8604); 2.17 cfs (2013 licensing exam for 63-11777)

E. NARRATIVE/REMARKS/COMMENTS

Two wells provide irrigation water to the 159-acre place of use. The "S29" well in the NWNW Section 29 is equipped with a 150 hp motor and recently installed McCrometer 8-inch mag meter. A 50-hp booster located in the SWSE Section 20 pressurizes water from the lower farm served by S29 up to the higher elevation land irrigated under this permit. The "S20" well located in the SESE Section 20 is equipped with a 200-hp motor and recently installed McCrometer 8-inch mag meter. The booster pump shown on the photographs for the Section 20 pumping station was designed to boost pressure from water held in the pond located south of the well pumping station, however use of this pond and booster have been discontinued for several years.

The irrigation system consists of a large and a small full-circle pivot, one partial-circle pivot, and handlines for irrigating areas outside of the pivot coverages.

Overlap Review: The place of use for this permit (63-33639) overlaps 63-7270A and 63-7270B. 63-7270A and 63-7270B together authorize irrigation of 142.1 acres. This permit (63-33639), 63-7270A, and 63-7270B when combined should be limited to 159 acres.

The points of diversion for this permit (63-33639) are also authorized points of diversion for 63-7270A, 63-7270B, 63-8604 and 63-11777. When combined, these right should be limited to a diversion rate of 4.35 cfs and an annual diversion volume of 4.5 afa for all authorized acres.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

See measurements from prior examinations.

S20 Well = 1.63 cfs

S29 Well = 2.72 cfs

Total = 4.35 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 159 \text{ acres} \times 4.5 \text{ afa/acre} = 715.5 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 4.35 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 2,243 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 715.5 \text{ afa}$$

2. Volume Calculations for Other Uses:

none

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	3/1	11/15	3.18 cfs	716 afa
Totals:			3.18 cfs	716 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☒ Change P.U. as reflected on page 1☒ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Scott N. King

Date

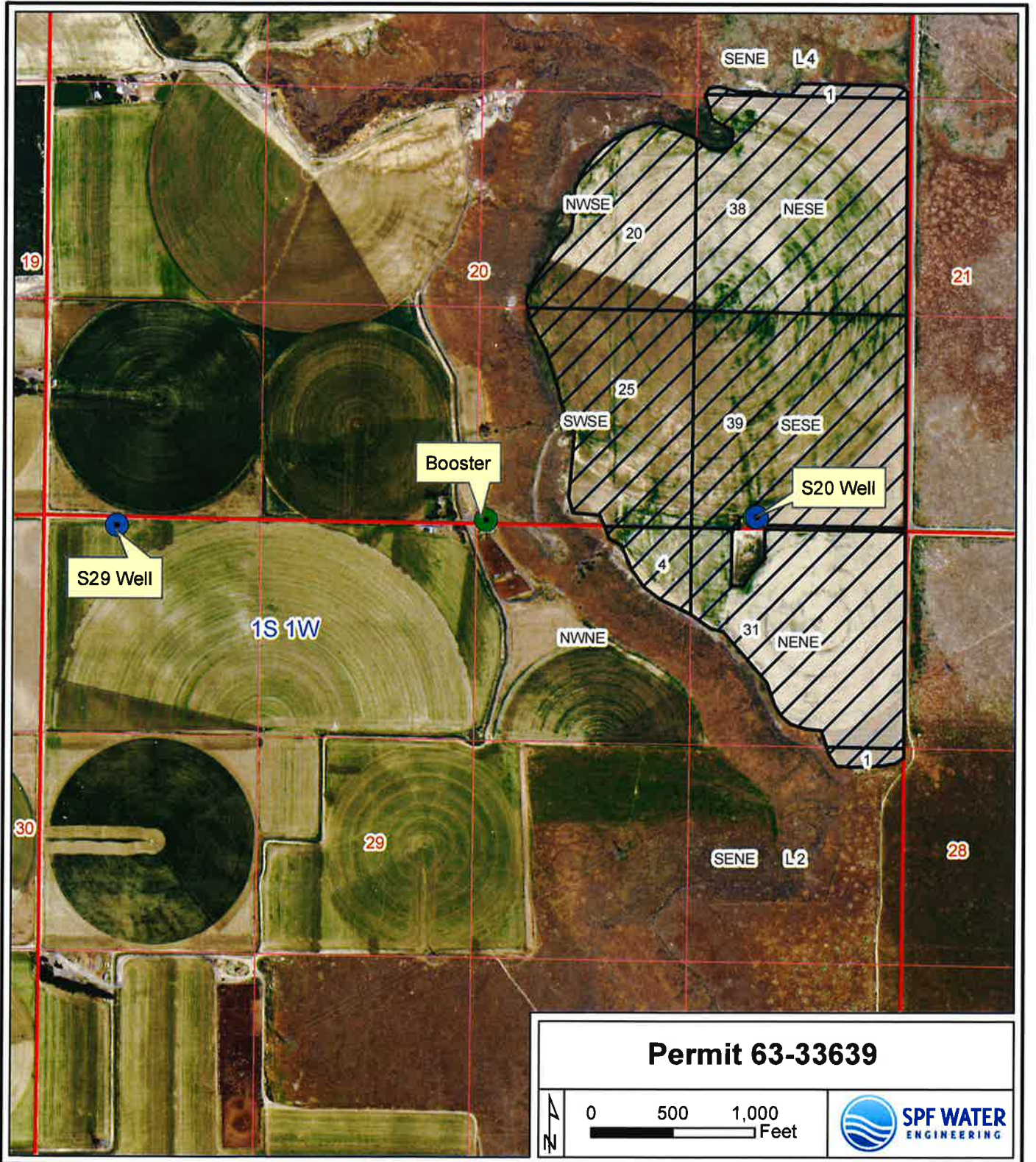
11/27/2018

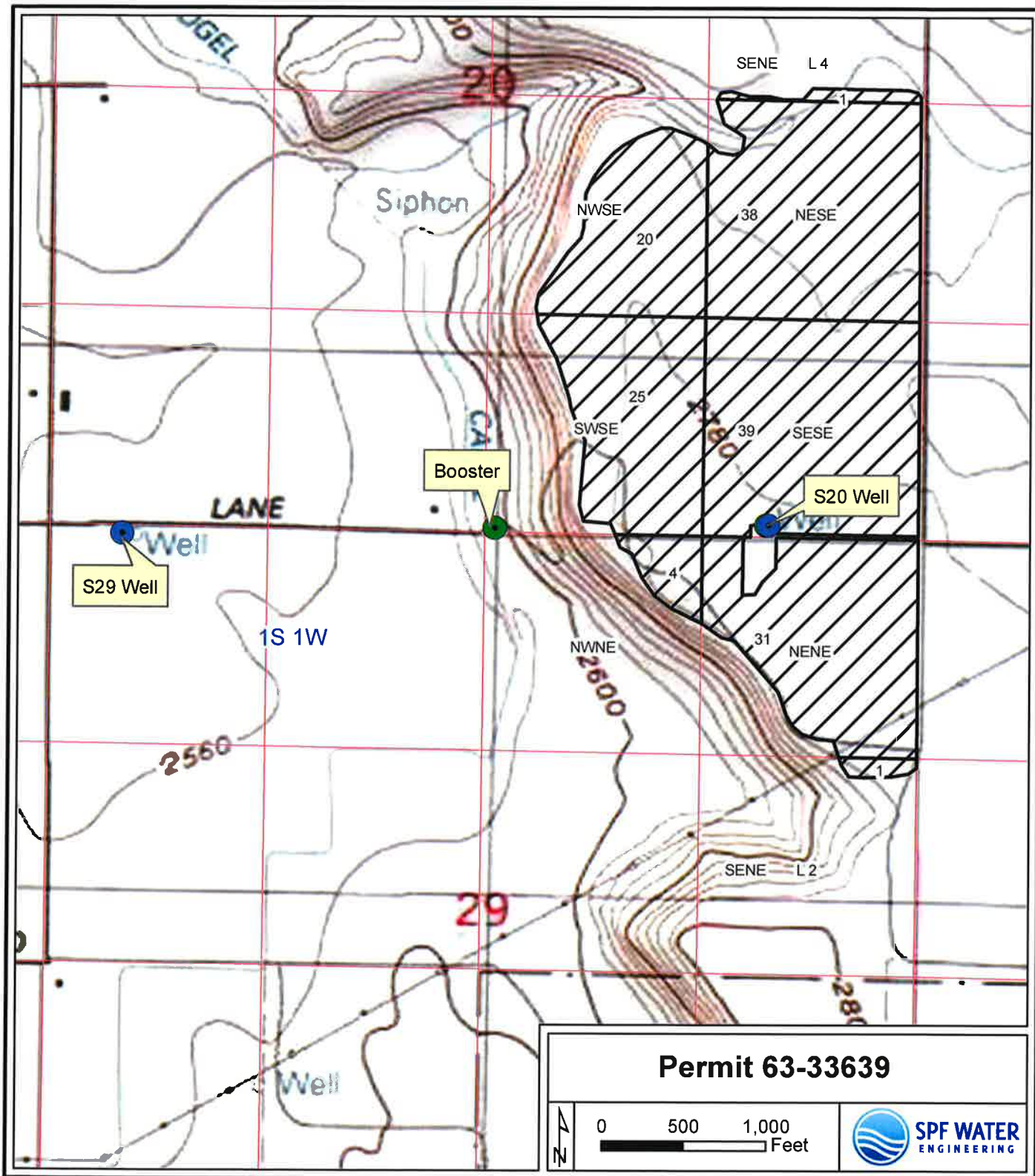
Reviewer

Date



Attachment A
Field Exam Map





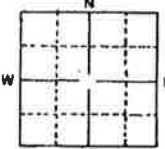
Attachment B
System Components and Diagrams

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

1. WELL OWNER Name <u>Wanda J. Mason</u> Address <u>Fort Bliss, Idaho</u> Owner's Permit No. <u>63-7270</u>		7. WATER LEVEL Static water level <u>10.5</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																					
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Other Discharge G.P.M. <u>11.0</u> Draw Down <u>4 ft.</u> Hours Pumped <u>8</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>10</td><td>0</td><td>11</td><td>Soil.</td><td></td><td></td></tr><tr><td></td><td>11</td><td>73</td><td>Gray lava.</td><td></td><td></td></tr><tr><td></td><td>73</td><td>92</td><td>Clay and boulders.</td><td></td><td></td></tr><tr><td></td><td>92</td><td>107</td><td>Brown lava, fine.</td><td></td><td></td></tr><tr><td></td><td>107</td><td>152</td><td>Brown lava, clay seams.</td><td></td><td></td></tr><tr><td></td><td>152</td><td>182</td><td>Brown lava, fine.</td><td></td><td></td></tr><tr><td></td><td>182</td><td>275</td><td>Clay, boulders and cinders.</td><td></td><td></td></tr><tr><td></td><td>275</td><td>285</td><td>Sand and some clay.</td><td></td><td></td></tr><tr><td></td><td>285</td><td>350</td><td>Sand, fine.</td><td></td><td></td></tr><tr><td></td><td>350</td><td>372</td><td>Granulated sand.</td><td></td><td></td></tr><tr><td></td><td>372</td><td>412</td><td>Blue clay.</td><td></td><td></td></tr><tr><td></td><td>412</td><td>423</td><td>Sand and some gravel.</td><td>X</td><td></td></tr><tr><td></td><td>423</td><td>451</td><td>Sand, fine.</td><td></td><td></td></tr><tr><td></td><td>451</td><td>465</td><td>Blue clay.</td><td></td><td></td></tr><tr><td></td><td>465</td><td>481</td><td>Sandy clay.</td><td></td><td></td></tr><tr><td></td><td>481</td><td>521</td><td>Blue clay and gravel.</td><td>X</td><td></td></tr><tr><td></td><td></td><td></td><td>water seeps.</td><td></td><td></td></tr><tr><td></td><td>521</td><td>562</td><td>Blue clay and some gravel.</td><td>X</td><td></td></tr><tr><td></td><td>562</td><td>605</td><td>Blue clay and some sand.</td><td></td><td></td></tr><tr><td></td><td>605</td><td>627</td><td>Limestone, water.</td><td>X</td><td></td></tr><tr><td></td><td>627</td><td>630</td><td>Blue clay.</td><td></td><td></td></tr><tr><td></td><td>630</td><td>635</td><td>White sand.</td><td></td><td></td></tr><tr><td></td><td>635</td><td>706</td><td>Sandy clay.</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	10	0	11	Soil.				11	73	Gray lava.				73	92	Clay and boulders.				92	107	Brown lava, fine.				107	152	Brown lava, clay seams.				152	182	Brown lava, fine.				182	275	Clay, boulders and cinders.				275	285	Sand and some clay.				285	350	Sand, fine.				350	372	Granulated sand.				372	412	Blue clay.				412	423	Sand and some gravel.	X			423	451	Sand, fine.				451	465	Blue clay.				465	481	Sandy clay.				481	521	Blue clay and gravel.	X					water seeps.				521	562	Blue clay and some gravel.	X			562	605	Blue clay and some sand.				605	627	Limestone, water.	X			627	630	Blue clay.				630	635	White sand.				635	706	Sandy clay.		
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5. WELL CONSTRUCTION Diameter of hole <u>10</u> inches Total depth <u>706</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness Diameter From To <u>5</u> inches <u>10</u> inches <u>0</u> feet <u>32</u> feet <u>5</u> inches <u>10</u> inches <u>0</u> feet <u>590</u> feet <u>5</u> inches _____ inches _____ feet _____ feet <u>5</u> inches _____ inches _____ feet _____ feet <u>5</u> inches _____ inches _____ feet _____ feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☒ Factory & ☒ Knife ☐ Torch Size of perforation <u>1/8</u> inches by <u>5/16</u> inches Number From To <u>12</u> per. ft. perforations <u>600</u> feet <u>630</u> feet <u>4</u> per. ft. perforations <u>481</u> feet <u>625</u> feet <u>5</u> per. ft. perforations <u>410</u> feet <u>423</u> 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>32</u> feet Material used in seal ☐ Cement grout ☒ Puddling clay																																																																																																																																																							
6. LOCATION OF WELL Sketch map location must agree with written location.  <u>63 7270</u> County <u>Carbo</u> T. <u>1</u> S. <u>1</u> E. <u>1</u> W.		10. Work started <u>11/17/69</u> finished <u>2/12/70</u>																																																																																																																																																					
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. C. L. Middleton & Son Driller's or Firm's Name Mountain Home, Idaho Address Signed By <u>C. L. Middleton</u> Date <u>2/25/70</u>																																																																																																																																																					

USE ADDITIONAL SHEETS IF NECESSARY

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

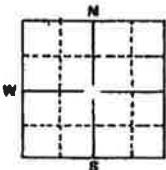
63-33639

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

1. WELL OWNER Name <u>Verda Anderson</u> Address <u>Meridian, Idaho</u> Owner's Permit No. <u>63-7270</u>		7. WATER LEVEL Static water level <u>106</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ °F Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																															
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		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. G. L. Middleton & Son <u>35</u> Driller's or Firm's Name _____ Number _____ Mountain Home, Idaho Address _____ Signed By <u>G. L. Middleton</u> Date <u>2/25/70</u>																																																																																																																																															

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE ORIGINALS, BLANK, AND FIRM COPIES TO THE SURVEYOR

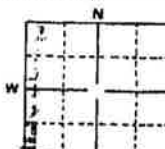
63-33439

USE TYPEWRITER OR
BALL POINT PEN

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.

1. WELL OWNER Name <u>Durme Pancheri</u> Address <u>Malba, Id.</u> Owner's Permit No. <u>63-8604</u>	7. WATER LEVEL Static water level <u>155</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																								
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USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

63-33639

Attachment C
Exam Photos



Figure 1: Section 29 well with flowmeter installed in discharge pipe.

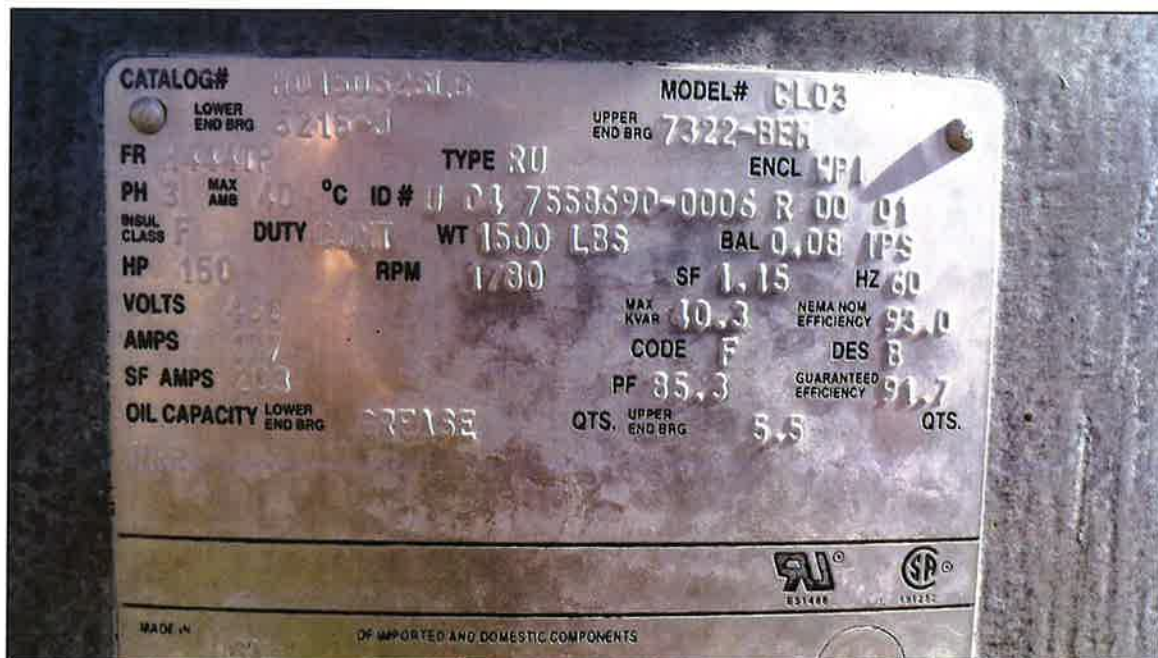


Figure 2: Section 29 motor nameplate.



Figure 3: Section 29 flowmeter nameplate.



Figure 4: Section 20 well and plumbing network.



Figure 5: Section 20 well and plumbing network. As noted in exam report, booster pump in photo lower right is no longer used. When it was used, it boosted pressure from water stored in the adjacent pond.



Figure 6: Section 20 motor nameplate.



Figure 7: Section 20 flowmeter installed in discharge pipe.



Figure 8: Section 20 flowmeter nameplate.



Figure 9: 50-hp booster pump.



Figure 10: Booster motor nameplate.