

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15727

Exam Date: 5/9/2012

1. Current Owner: HEATHER M RIDGWAY
PO BOX 1953
LEWISTON ID 83501
(208)743-4357
- Or
- DALE E RIDGWAY
PO BOX 1953
LEWISTON ID 83501
(208)743-4357 Cell: (208)791-5973
Email: dh-ridgway@gmail.com

2. Accompanied by: In-Office Field Exam (utilizing 1990 field exam 85-7317, since it is the same well, and no upgrades have been made)

3. SOURCE

GROUNDWATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: 37-7317A, 37-7317B, 85-15740

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

GROUNDWATER SE1/4SE1/4 Sec. 4, Twp 33N, Rge 04W, B.M. NEZ PERCE County

Method of Determination: Arc Map 2009

2.

PLACE OF USE: DOMESTIC

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>	
33N	04W	9	X			X													
			L 6			L 7													
33N	04W	10					X	X											

Method of Determination: Arc Map 2009

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.

Well or Diversion

ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
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Notes taken from 9/30/1990 field exam for 85-7317 (same well):

Submersible	Franklin	3Hp	2823028103	Gould	unknown
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*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

- Notes taken from 9/30/1990 field exam for 85-7317 (same system):

No physical measurement was taken, but a comment from Mr. Slette during the field exam, indicated that the water supply was less than ideal.

Theoretical (information from 9/30/1990 field exam):

$(8.8 \times 3 \text{ Hp} \times 0.7 \text{ eff}) / [635 \text{ ft lift} + (20 \text{ psi} \times 2.31)] = \mathbf{0.03 \text{ cfs maximum capacity of the system}}$

**With the original field exam, there were 3 houses on the system, and the field exam 85-7317 recommended 0.03 cfs. Permits for 85-15727 (one home 0.03 cfs) and 85-15740 (one home 0.02 cfs) were both approved.

RECOMMEND: 0.03 cfs, with combined limit to the capacity of the well of 0.03 cfs (the logic behind this was due to each of the houses having a 1,000 gallon storage tank, and proof of beneficial use already having been submitted i.e. houses built).

Basin	Sequence	Suffix	Version Number	Process	Basis	Status	Draft	RightID	Priority Date	Diversion Rate	Source List
85	7317	A		Water Right	Decreed	Active	N	137580	1/30/1983	0.01	GROUND WATER
85	7317	B		Water Right	Decreed	Active	N	139026	1/30/1983	0.01	GROUND WATER
85	15413			Water Right	Decreed	Active	N	575330	1/30/1983	0.01	GROUND WATER
85	15727			Water Right	License	Active	Y	654965	4/29/2010	0.03	GROUNDWATER
85	15740			Water Right	License	Active	Y	654812	11/1/2011	0.02	GROUNDWATER
85	15729			Water Permit		Active	N	634979	6/1/2010	0.06	GROUND WATER
85-	15725			Water Right Rec.	Decreed	closed	N	632201	7/31/1990	0.03	Ground water

E. VOLUME CALCULATIONS

- Volume Calculations for Domestic:

RECOMMEND: IDWR Standard for Domestic 1 home, internal/external use = 1.2 AF

F. NARRATIVE/REMARKS/COMMENTS:

The original field exam for this POD was conducted on 4/16/1990 (85-7317). The well was drilled 12/27/1984, 8 inch casing, 860 ft deep, 635 ft static, with a 6 hr pump test of 35 gpm (0.08 cfs). The field examiner found a 3Hp submersible Franklin 2823128103 Gould pump (unknown size discharge), being used for only 3 homes on 9 lots. No physical measurement was conducted, but Mr. Slette stated in the field exam for 85-7317 that the water supply was less than ideal. A theoretical $(8.8 \times 3 \text{ Hp} \times 0.7 \text{ eff}) / [635 \text{ ft} + (20 \text{ psi} \times 2.31)] = 0.027 = 0.3 \text{ cfs}$ maximum capacity for the system. Craig Saxton/IDWR was aware of this system, and indicated that each home had a 1,000 gallon storage tank on their individual system. Reviewing the notes for permit 85-15740 (which is also on this system), indicated that the well was still a 3 Hp submersible, therefore the system had not been upgraded. Domestic for this water right (85-15727) is for 1 home internal/external use (garden/lawn, 1 horse, and 2 calves).

Have conditions of permit approval been met? ☒ Yes ☐ No

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.030 CFS	1.2 AF
	<u>Totals:</u>	0.030 CFS	1.2 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

Sandy Hemmaway Date 5/9/2012

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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Department of Water Resources

A. GENERAL INFORMATION

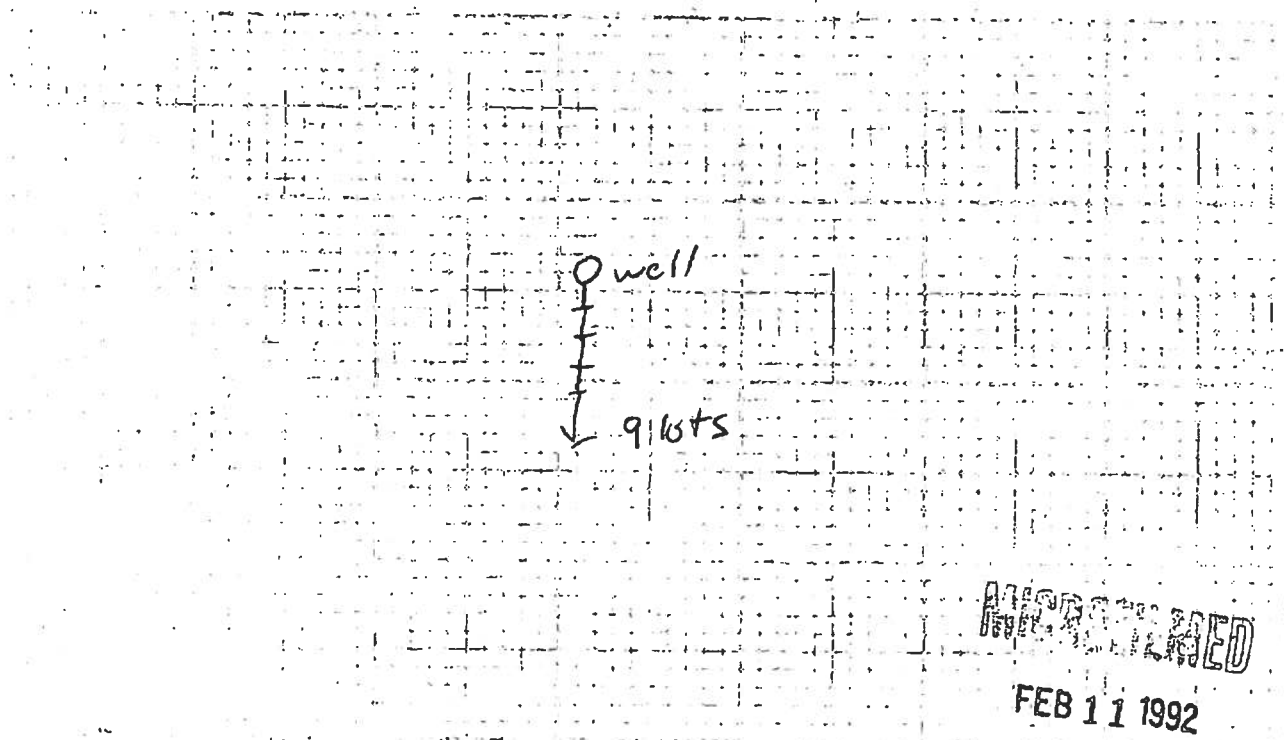
Permit No. 85-07317
1. Owner: Perry Ross Heinecke + Pt. Clark Phone No. 743-0998
Current Address: 1706-13th St Lewiston Idaho 83507
2. Accompanied by: Frank Slette EXAM. DATE: _____
Address: 7980 Canal St. Anchorage Phone No. _____
Relationship to Permit Holder: 99507 owns land on Mr. Heinecke's property.
3. Source: Groundwater tributary to —

B. OVERLAP REVIEW

1. Other water rights with same place of use: None ☐ Copies Attached
2. Other water rights with same point of diversion: None ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



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Scale: 1" = NTS

2. ☒ Copy of U.S.G.S. 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 or more).
☒ Photo of Diversion and System Attached (required for all but single household domestic groundwater, and stockwater).

Do not use this space

D. FLOW MEASUREMENTS *None* ☐ Additional Data Sheets Attached

1.

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

2. Measurements:



E. FLOW CALCULATIONS ☐ Additional Computation Sheets Attached

1. Measured Method:

$$30 \text{ HP} = \frac{Q \times H}{(8.8)E} \Rightarrow 3 = \frac{Q \times (63.5)(2.3)(10)}{(8.8)(.7)} =$$

2. Alternate Method for Checking Purposes:

9 lots $\Rightarrow 7.14$

stock (10) $\Rightarrow 7.02$

$Q = 2.03 \text{ max}$

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3)

; Flow rate: _____ cfs (4)

Water HP: (3) x (4) $\div$ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{(1/2)(3.0)}{1} = 3/2 = 1.5 \text{ } \left. \begin{array}{l} \text{currently} \\ \text{stock} \end{array} \right\}$

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

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.5$

2. Volume Calculations for Other Uses:

Domestic (9) $\Rightarrow 2.4$
in domestic definition stock (10) $\Rightarrow 2$

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System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

The water from the 8" x 860' well, static water level 635 feet, is pumped to 9 lots by a 3 hp pump.

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Submersible	Franklin	3	2823028103	Gould	unknown

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

5. 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	4	33N	4W	NezPerce	Map

6. Place(s) of Use:

Indicate Method of Determination

Map

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
33N	4W	4																0	
8																		1/2	
~~33N 4W 2024~~																		5	

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H. REMARKS AND OVERLAP REVIEW ANALYSIS

- only 3 homes in use, but there are 9 lots
- Irrigation falls under the domestic definition
- Cannot give .08 cfs as they could not achieve that with a 3 hp pump. Mr. Slette said his water supply was less than ideal.
- The residence on lot 4 was close to the section line and was difficult to determine the exact location.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic (3)	1/1	12/31	.03	1.8
Irrigation	3/1	12/1	.03	1.5
Totals:			.03	3.3

2. Recommended Amendments

☐ Change P.D. as reflected above

☐ Add P.D. as reflected above

☒ None

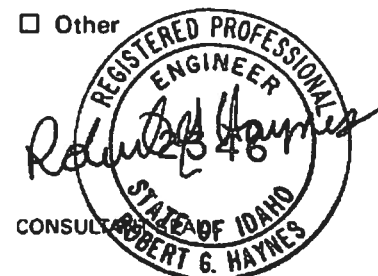
☐ Change P.U. as reflected above

☐ Add P.U. as reflected above

☐ Other

J. AUTHENTICATION

Field Examiner's Name Robert Knoblock
 Signature Robert Knoblock
 Certification Date 4/16/90
 Field Report Preparation Date 7/30/90



K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

NOT FILMED

FEB 11 1992

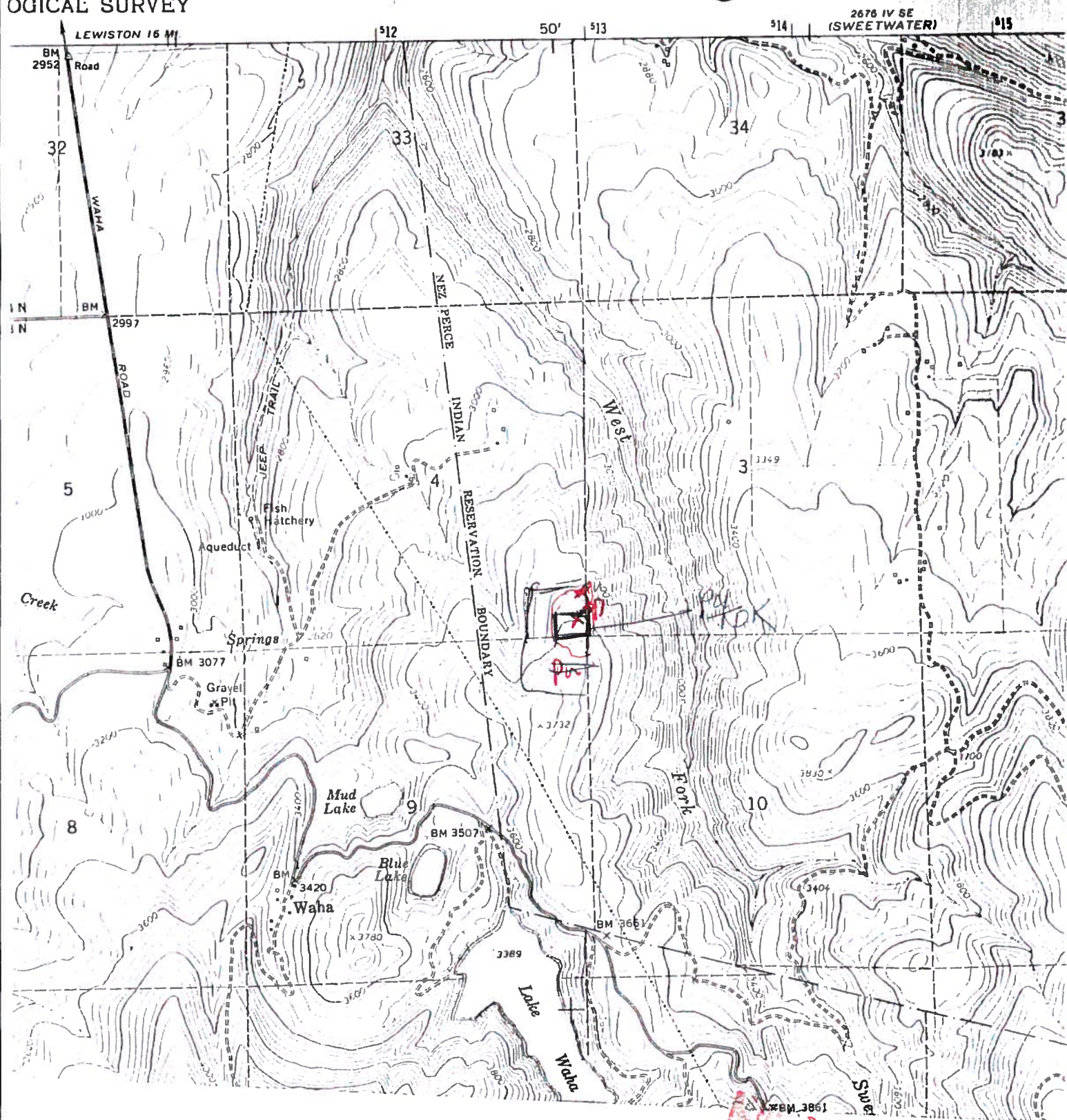


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85-7317/85-15727

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



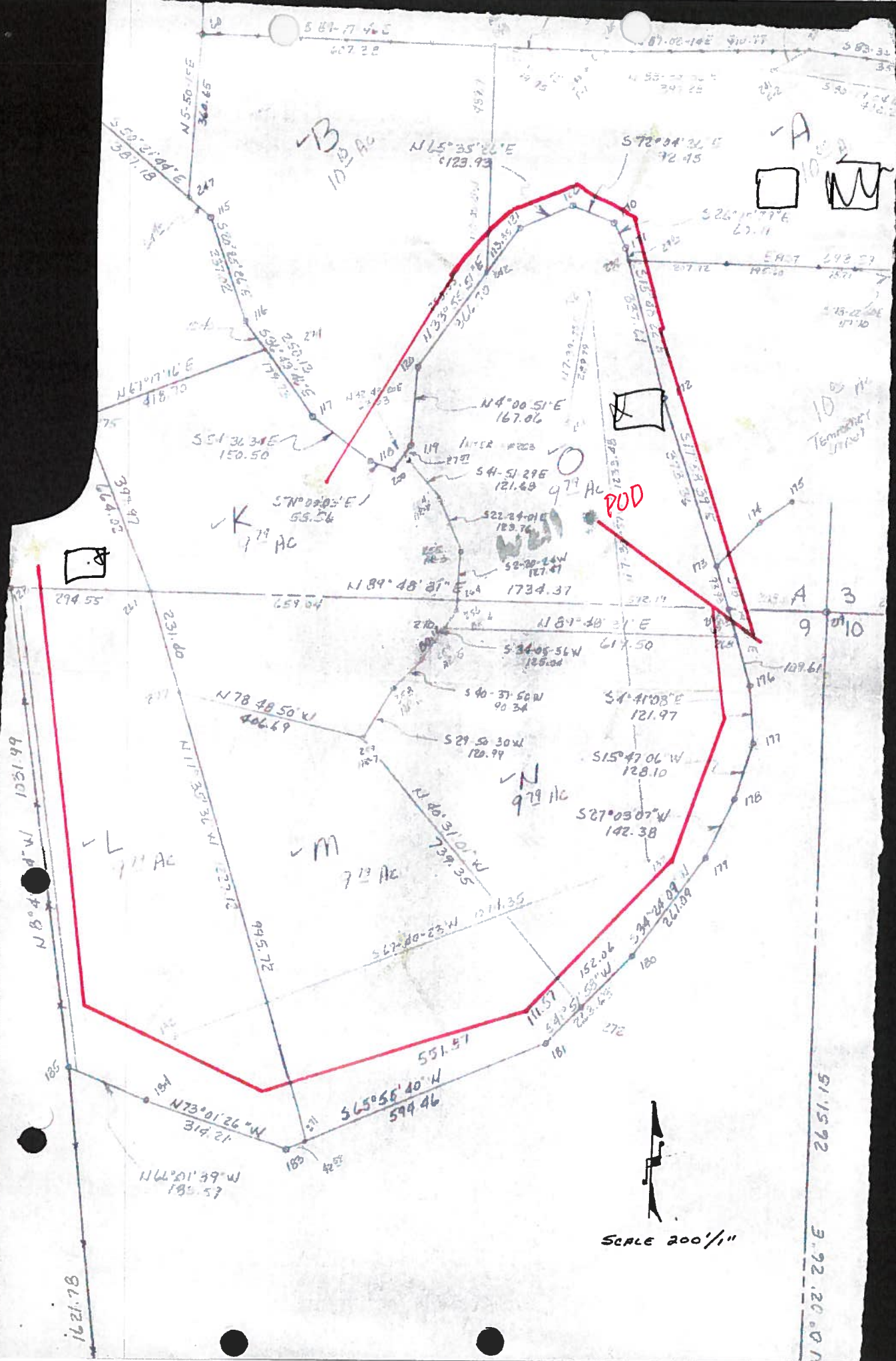
PT CLARK AND PERRY HEINECKE
P.D. T 33 N, R 4 W, SEC. 04,
P.U. T 33 N, R 4 W, SEC. 04,
P.U. T 33 N, R 4 W, SEC. 09,

SE SE
SW SE
NE

PERMIT 85 - 07317
MAP # 06
ACRES
QUAD# M-4

PL-PM18/TMO

85-7317 / 85-15727



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.

JAN 21 1985

1. WELL OWNER Name <u>PERRY HEINECKE</u> Address <u>1706-13th LEWISTON ID</u> Owner's Permit No. <u>85-82-N-9</u>		7. WATER LEVEL Static water level <u>635</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow <u>35</u> Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>60</u> °F. Quality <u>Good</u> Describe artesian or temperature zones below.																																																																																																																																																					
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____																																																																																																																																																					
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		<table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>35</u></td><td><u>860</u></td><td><u>61</u></td></tr><tr><td><u>30</u></td><td><u>835</u></td><td><u>4</u></td></tr><tr><td><u>30</u></td><td><u>810</u></td><td><u>2</u></td></tr><tr><td><u>35</u></td><td><u>785</u></td><td><u>2</u></td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	<u>35</u>	<u>860</u>	<u>61</u>	<u>30</u>	<u>835</u>	<u>4</u>	<u>30</u>	<u>810</u>	<u>2</u>	<u>35</u>	<u>785</u>	<u>2</u>																																																																																																																																					
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4. METHOD DRILLED ☐ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		9. LITHOLOGIC LOG <u>01152</u> <table border="1"><thead><tr><th>Bore Diam.</th><th>Depth</th><th>Material</th><th>Water</th></tr><tr><th></th><th>From To</th><th></th><th>Yes No</th></tr></thead><tbody><tr><td>10</td><td>0 2</td><td>TOP SOIL</td><td></td></tr><tr><td>10</td><td>2 5</td><td>FR. BLUE BASALT</td><td></td></tr><tr><td>10</td><td>5 9</td><td>FR. BROWN ROCK</td><td></td></tr><tr><td>10</td><td>9 20</td><td>FR. BRN & RED ROCK</td><td></td></tr><tr><td>8</td><td>20 30</td><td>BLUE BASALT</td><td></td></tr><tr><td>8</td><td>30 50</td><td>DIRTY BASALT</td><td></td></tr><tr><td>8</td><td>50 87</td><td>RED INTERBED ROCK</td><td></td></tr><tr><td>8</td><td>87 95</td><td>DIRTY BASALT</td><td></td></tr><tr><td>8</td><td>95 140</td><td>BLUE BASALT</td><td></td></tr><tr><td>8</td><td>140 155</td><td>RED INTERBED</td><td></td></tr><tr><td>8</td><td>155 175</td><td>BLUE BASALT w/ BROWN ROCK</td><td></td></tr><tr><td>8</td><td>175 190</td><td>BLUE BASALT</td><td></td></tr><tr><td>8</td><td>190 200</td><td>RED & BRN INTERBED</td><td></td></tr><tr><td>8</td><td>200 215</td><td>+ TAN SHELL</td><td></td></tr><tr><td>8</td><td>215 233</td><td>FR. BRN INTERBED</td><td></td></tr><tr><td>8</td><td>233 243</td><td>DIRTY BASALT - SOFT</td><td></td></tr><tr><td>8</td><td>243 263</td><td>BLUE BASALT - HARD</td><td></td></tr><tr><td>8</td><td>263 285</td><td>FR. BLUE BASALT</td><td></td></tr><tr><td>8</td><td>285 300</td><td>BRN & RED INTERBED</td><td></td></tr><tr><td>8</td><td>300 305</td><td>FR. BRN & RED ROCK</td><td></td></tr><tr><td>8</td><td>305 325</td><td>DIRTY BRN & RED ROCK</td><td></td></tr><tr><td>8</td><td>325 345</td><td>LITTLE TAN SHELL</td><td></td></tr><tr><td>8</td><td>345 365</td><td>BLUE BASALT FR. BRN</td><td></td></tr><tr><td>8</td><td>365 380</td><td>MED. HARD</td><td></td></tr><tr><td>8</td><td>380 415</td><td>HARD BLUE BASALT</td><td></td></tr><tr><td>8</td><td>415 420</td><td>RED & BRN INT. w/ TAN</td><td></td></tr><tr><td>8</td><td>420 440</td><td>SHELL</td><td></td></tr><tr><td>8</td><td>440 500</td><td>BROWN ROCK</td><td></td></tr><tr><td>8</td><td>500 515</td><td>BLUE BASALT</td><td></td></tr><tr><td>8</td><td>515 533</td><td>RED & BLUE ROCK</td><td></td></tr><tr><td>8</td><td>533 550</td><td>RED INTERBED</td><td></td></tr><tr><td>8</td><td>550 570</td><td>RED & BROWN ROCK</td><td></td></tr><tr><td>8</td><td>570 590</td><td>BLUE BASALT</td><td></td></tr><tr><td>8</td><td>590 615</td><td>DIRTY BASALT</td><td></td></tr><tr><td>8</td><td>615 640</td><td>BROWN & BRN ROCK</td><td></td></tr></tbody></table>		Bore Diam.	Depth	Material	Water		From To		Yes No	10	0 2	TOP SOIL		10	2 5	FR. BLUE BASALT		10	5 9	FR. BROWN ROCK		10	9 20	FR. BRN & RED ROCK		8	20 30	BLUE BASALT		8	30 50	DIRTY BASALT		8	50 87	RED INTERBED ROCK		8	87 95	DIRTY BASALT		8	95 140	BLUE BASALT		8	140 155	RED INTERBED		8	155 175	BLUE BASALT w/ BROWN ROCK		8	175 190	BLUE BASALT		8	190 200	RED & BRN INTERBED		8	200 215	+ TAN SHELL		8	215 233	FR. BRN INTERBED		8	233 243	DIRTY BASALT - SOFT		8	243 263	BLUE BASALT - HARD		8	263 285	FR. BLUE BASALT		8	285 300	BRN & RED INTERBED		8	300 305	FR. BRN & RED ROCK		8	305 325	DIRTY BRN & RED ROCK		8	325 345	LITTLE TAN SHELL		8	345 365	BLUE BASALT FR. BRN		8	365 380	MED. HARD		8	380 415	HARD BLUE BASALT		8	415 420	RED & BRN INT. w/ TAN		8	420 440	SHELL		8	440 500	BROWN ROCK		8	500 515	BLUE BASALT		8	515 533	RED & BLUE ROCK		8	533 550	RED INTERBED		8	550 570	RED & BROWN ROCK		8	570 590	BLUE BASALT		8	590 615	DIRTY BASALT		8	615 640	BROWN & BRN ROCK	
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35gpm X .00223 = .0843

Average of
30gpm X .00223 = .071



USE... PEWRITER OR
BALLPOINT PEN

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>PERRY HEINECKE</u> Address <u>85-82-N-9</u> Owner's Permit No. _____	7. WATER LEVEL Static water level _____ feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																									
2. NATURE OF WORK ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	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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USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT



Idaho Department of Water Resources

Application for Permit 2004 Aerial Photography

Legend

- Township/Range
- Sections
- QQ
- Point of Diversion
- Place of Use



Prepared by: Craig L. Saxton
Date Prepared: March 2010

