

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11037

Exam Date: 9/18/2015

1. Current Owner: W JEANIE PEERY
17332 N WILKINSON RD
RATHDRUM ID 83858
(208)659-6590
2. Accompanied by: New Owner

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: 95-11136

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

GROUND WATER NW1/4NE1/4 Sec. 27, Twp 52N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 49.793, 116° 49.079 (A0015462)

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
52N 04W 27	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	.9

Total Acres: 0.9

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>
95-96-N-018-000	FRANKLIN	5			

*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 PERFORM FLOW MEASUREMENT. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT $(5 \text{ HP})(8.8)(0.8) / 285 + (40 \times 2.3087) = 0.09 \text{ CFS}$. ASSUMED PUMP SET AT 285 FEET, SYSTEM WAS RUNNING ON 40 PSI.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.9 \text{ AC} \times 3 \text{ AF} = 2.7 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 246 \times 1.9835 = 14.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.7 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED SHARED WELL WITH 5 HP PUMP AT 40 PSI. APPLICANT HAD JUST SOLD HOME BEFORE EXAM AND WAS TOLD TO ASSIGN PERMIT. ASSIGNMENT HAS NOT TAKEN PLACE, SO IDWR WILL PROCEED IN THE LICENSING OF PERMIT. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 41.9 GPM OR 0.09 CFS. CURRENT RESIDENT SAID NO STOCK WERE PRESENT AND STOCK WERE EVER PRESENT TO HER KNOWLEDGE. ACTUAL IRRIGATION WAS ONLY 0.9 ACRES.

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	0.030 CFS	2.70 AF
<u>Totals:</u>		0.030 CFS	2.70 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

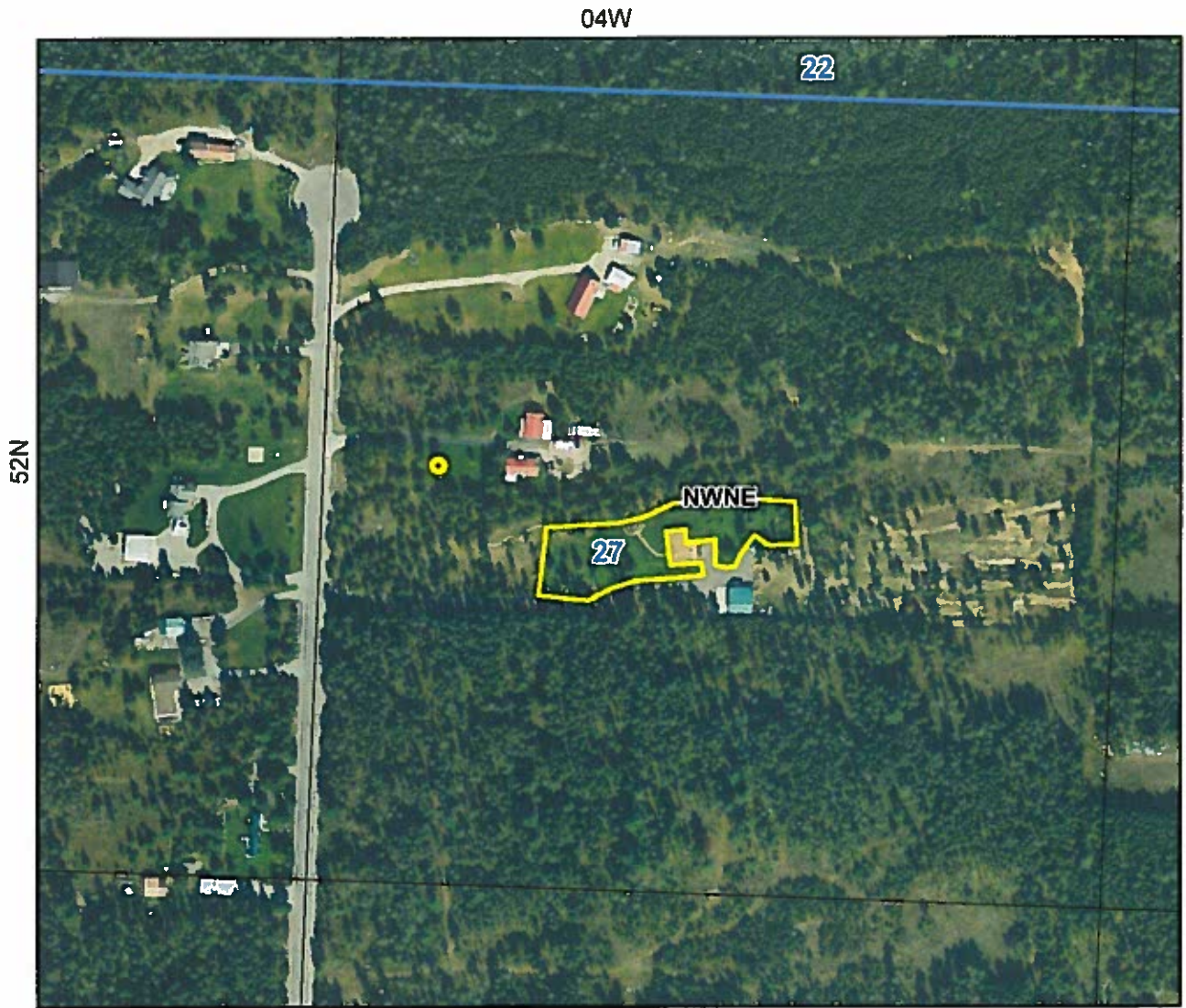
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Engelhardt Date 1-21-2016

Reviewer Beith T. Frankham Date 1/25/2016

State of Idaho
Department of Water Resources
Water Right License
95-11037



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

0 0.035 0.07 0.14 Miles



RECEIVED
#362

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Office Use Only			
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat: : :	Long: : :		

1. DRILLING PERMIT NO. 95-98-N-018-000

Other IDWR No

STATE Copy

2. OWNER

Name HANSEN, ARTHUR

Address RT 2 BOX 118

City HARRISON State ID Zip 83833

3. LOCATION OF WELL by legal description

sketch map location must agree with written location

N		
	X	
S		

Twp 52 North or South
Rge 04 East or West
Sec 27 1/4 NW 1/4 NE 1/4

Gov't Lot County KOOTENAI
Lat: : : Long: : :
Address of Well Site WILKINSON RD
City

(Give at least name of road + Distance to Road or Landmark)

Lt. Blk. Sub. Name

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement, etc)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	80	6 SACKS	Powder/ 3 crumbl

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 299Was drive shoe seal tested? ☐ Y ☐ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Inner Welded	Threaded
6	+2	299	250	steel	☒	☐	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

☒ Perforations Method Open Bottom

☐ Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Inner

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

265 ft below ground Artesian pressure lb

Depth flow encountered ft Describe access port or control devices:

NW NE 27 52N 4W

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30			1 HR

Water Temp Bottom Hole Temp

Water Quality test or comments:

Depth first Water encountered

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

				Water	
Core Depth	From	To	Remarks Lithology, Water Quality, Temperature	Y	N
8	0	2	Topsoil, Brown Soft	☐	☒
8	2	5	Cobbles Clays Brown	☐	☒
8	5	8	Boulder	☐	☒
8	8	15	Cobbles Clays Brown	☐	☒
8	15	36	Sands Clays Gravels	☐	☒
8	36	38	Boulder	☐	☒
8	38	60	Sands Gravels	☐	☒
8	60	63	Boulder	☐	☒
8	63	180	Gravels Fine Sands Tanish	☐	☒
8	180	240	Sands Fine Gravels	☐	☒
8	240	265	Fine Sand Brown	☐	☒
8	265	285	Fine Gravels 3/8 Minis	☐	☒
8	285	299	Coarse Gravels " to 1 1/2	☒	☐
	0	0	(208)772-4004	☐	☐
	0	0	Note: 1x6" Bolt on Cap	☐	☐
	0	0	Sand, Gravel, Boulders	☐	☐

Completed Depth 299' (Measurable)

Date: Started 03/18/96 Completed 03/19/96

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name H2O WellService, Inc. Firm No. 448

Firm Official John Wheeler Date 3-21-96

and

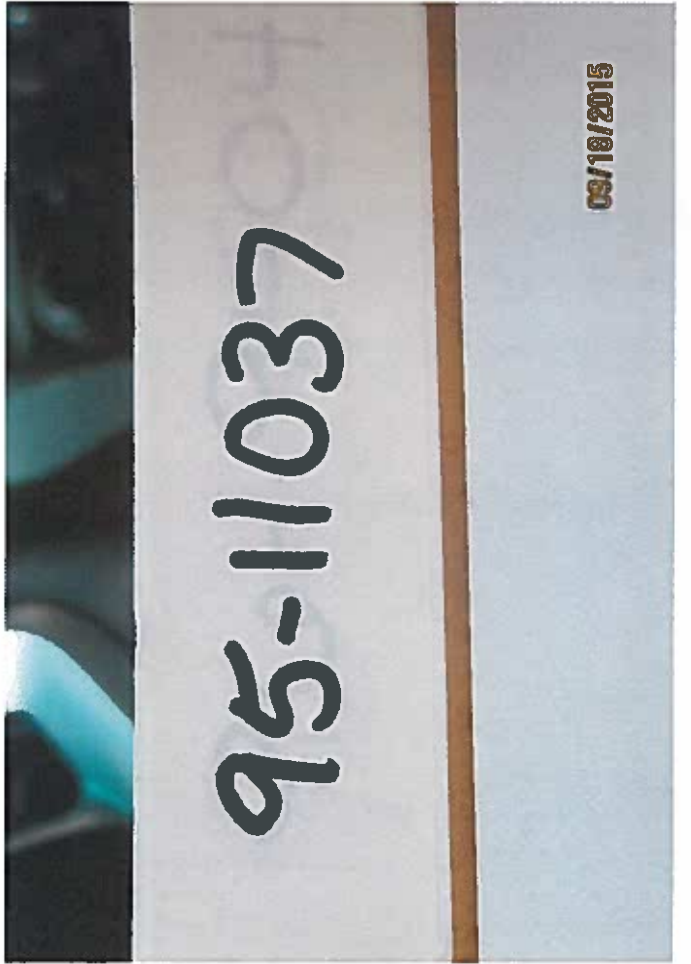
Supervisor or Operator Date

(Sign Once if Firm Official and Operator)

THEORETICAL PUMPING EQUATION FOR WATER RIGHTS 95-11136 & 95-11037
(SHARED WELL)

PUMP EQUATIONS WATER RIGHT No. 95-11136 & 95-11037						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	5	377.51 7	0.8	285	40
Q = 0.093 cfs 41.9 gpm						

ASSUMED PUMP SET AT 285 FEET. SYSTEM PRESSURE WAS 40 PSI (EXAM PHOTOS WERE BLURRY)



95-11037



95-11037



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