

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11136

Exam Date: 9/18/2015

1. Current Owner: DEANNA L HUGHES
17420 N WILKINSON RD
RATHDRUM ID 83858
(208)819-2962

And/Or

STEPHEN A HUGHES
17420 N WILKINSON RD
RATHDRUM ID 83858
(208)819-2962

2. Accompanied by: Deanna Hughes

3. SOURCE**TRIBUTARY**

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: 95-11037

C. DIVERSION AND DELIVERY SYSTEM**1. 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	<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>	.5

Total Acres: 0.5

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:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \text{ AC} \times 3 \text{ AF} = 1.5 \text{ AF}$$

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

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

2. Volume Calculations for Other Uses:**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED SHARED WELL WITH 5 HP PUMP AT 40 PSI. APPLICANT SAID THERE HAD NEVER BEEN ANY STOCK ON PROPERTY AND ONLY THING OCCURRING WAS IRRIGATION. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 41.9 GPM OR 0.09 CFS. FIELD EXAM SHOWED THAT ONLY 0.5 ACRES OF IRRIGATION WERE ACTUALLY OCCURRING.

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	1.50 AF
<u>Totals:</u>		0.030 CFS	1.50 AF

2. Recommended Amendments

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

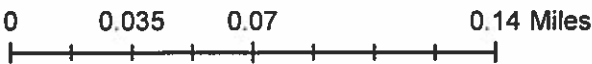
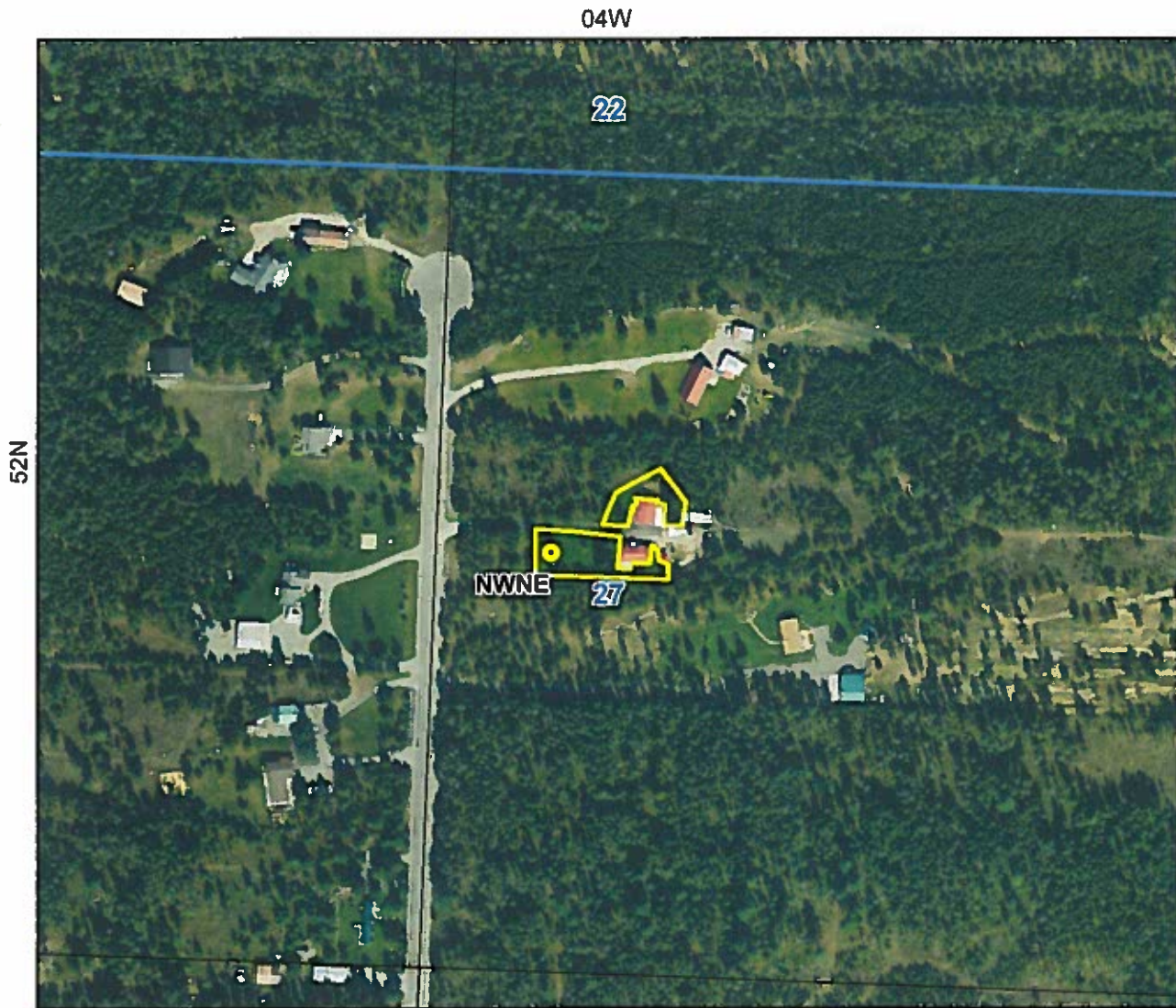
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Aden Fendrick Date 1-21-2016

Reviewer [Signature] Date 1-21-2016

State of Idaho
Department of Water Resources
Water Right License
95-11136



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



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

(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. SYTEM PRESSURE WAS 40 PSI (EXAM PHOTOS WERE BLURRY)



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