

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11128

Exam Date: 9/18/2015

1. Current Owner: RICHARD L UHLMANN
16499 N MOUNTAIN VIEW RD
RATHDRUM ID 83858
(208)687-9441

2. Accompanied by: Richard Uhlmann

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: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE1/4SW1/4 Sec. 28, Twp 52N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 49.299, 116° 50.630 (A0015460)

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N 04W 28									1.4								1.4

Total Acres: 1.4

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>
95-95-N-173-000	FRANKLIN	3			

*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>
--	-------------	-------------	------------------	-------------------	-------------	--------------------

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

$(3 \text{ HP})(8.8)(0.8) / 270 + (40 \times 2.3087) = 0.06 \text{ CFS}$. ASSUMED PUMP AT 270 FEET AND PSI AT 40.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ AC} \times 3 \text{ AF} = 4.2 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 246 \times 1.9835 = 19.5 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.2 \text{ AF}$$

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

FIELD EXAM SHOWED WELL WITH 3 HP PUMP. APPLICANT HAD APPLIED FOR IRRIGATION OF 10 ACRES BUT WAS ONLY IRRIGATING 1.4 ACRES. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 0.06 CFS OR 26.2 GPM. LICENSE WILL BE ISSUED FOR 0.04 CFS FOR THE IRRIGATION OF 1.4 ACRES WITH AN ANNUAL VOLUME OF 4.2 ACRE FEET.

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	0.040 CFS	4.20 AF
<u>Totals:</u>		0.040 CFS	4.20 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

Rich Fendert

Date

1-21-2016

Reviewer

Emily [Signature]

Date

1-21-2016

State of Idaho
Department of Water Resources
Water Right License
95-11128



0 0.035 0.07 0.14 Miles

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



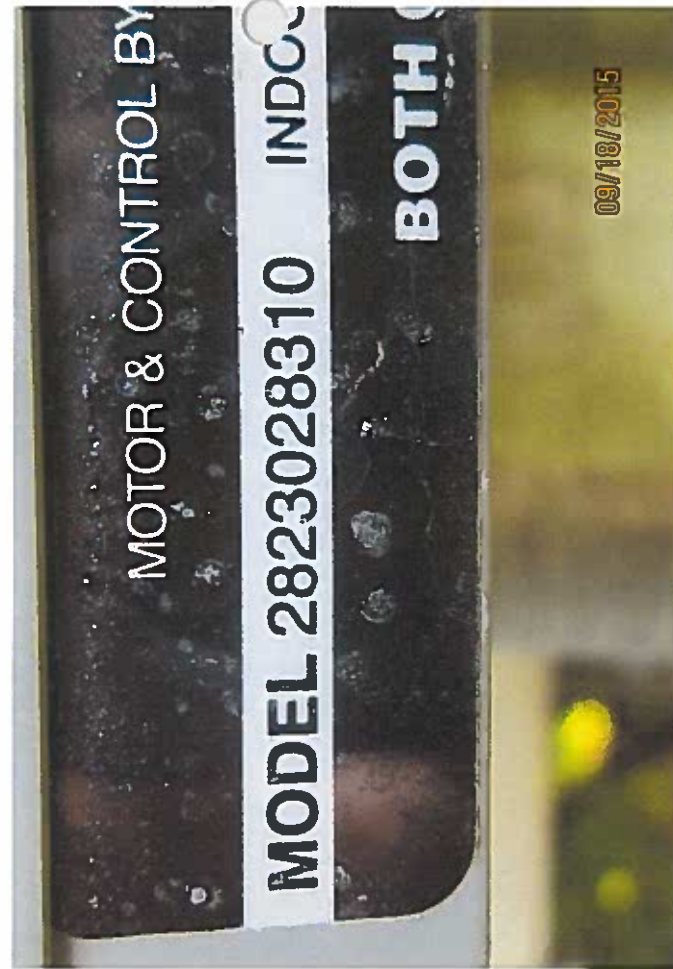
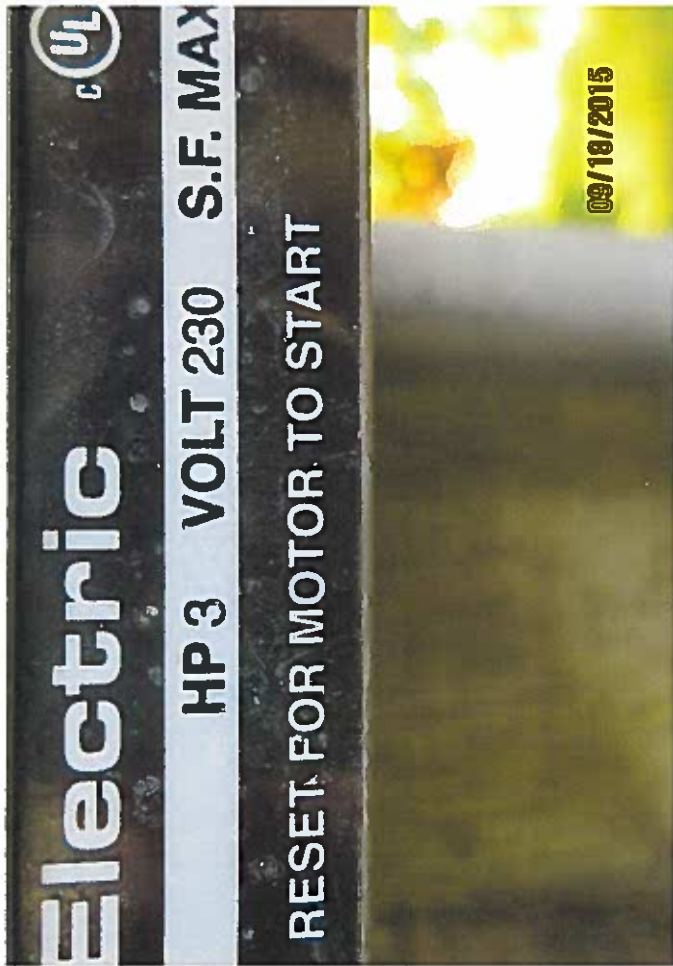
THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-11128

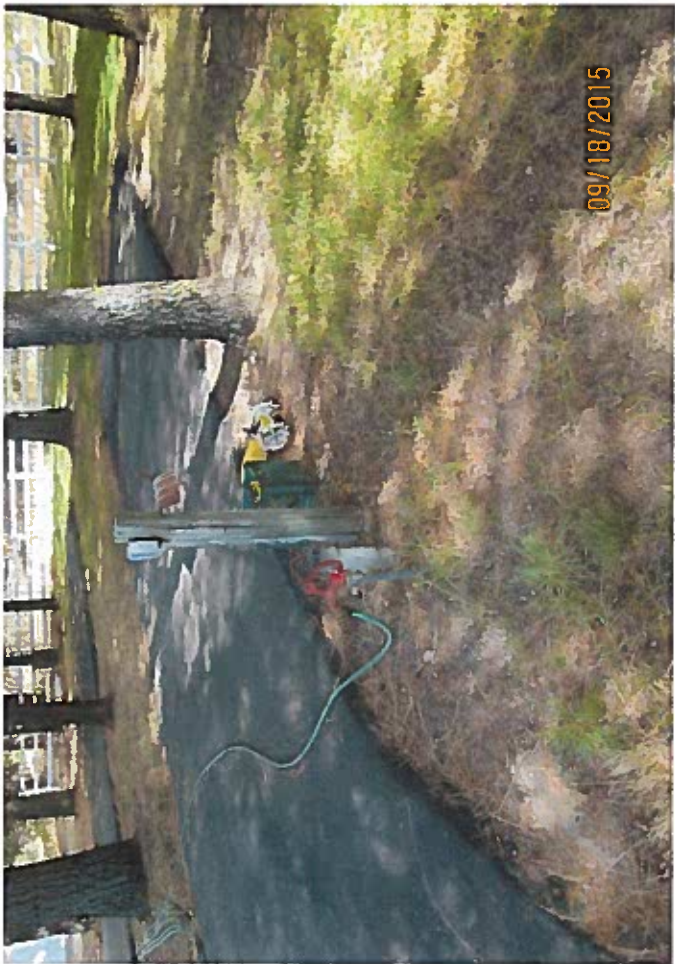
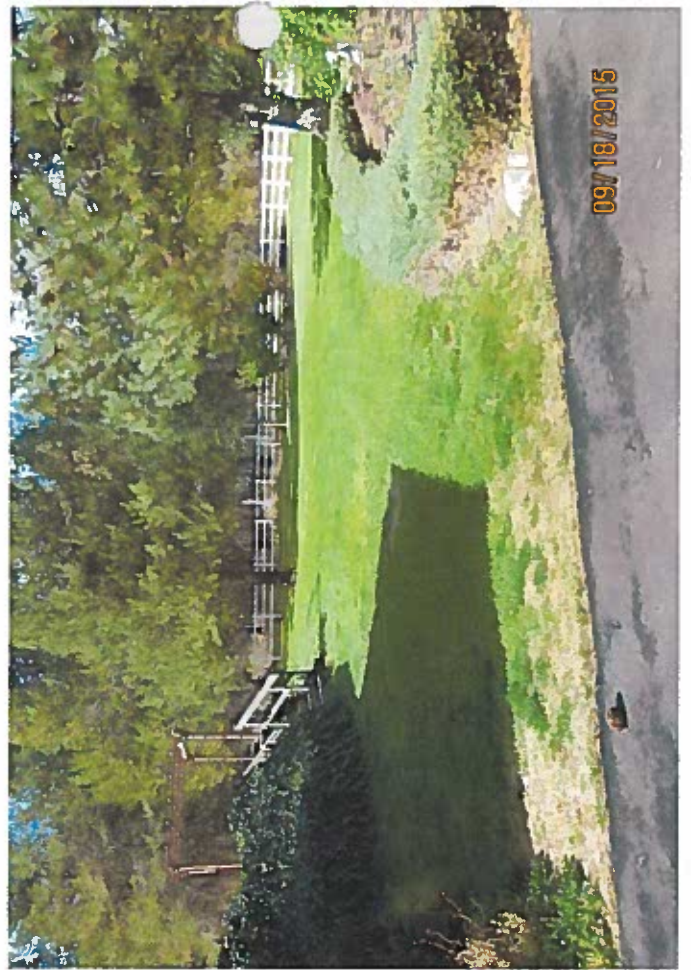
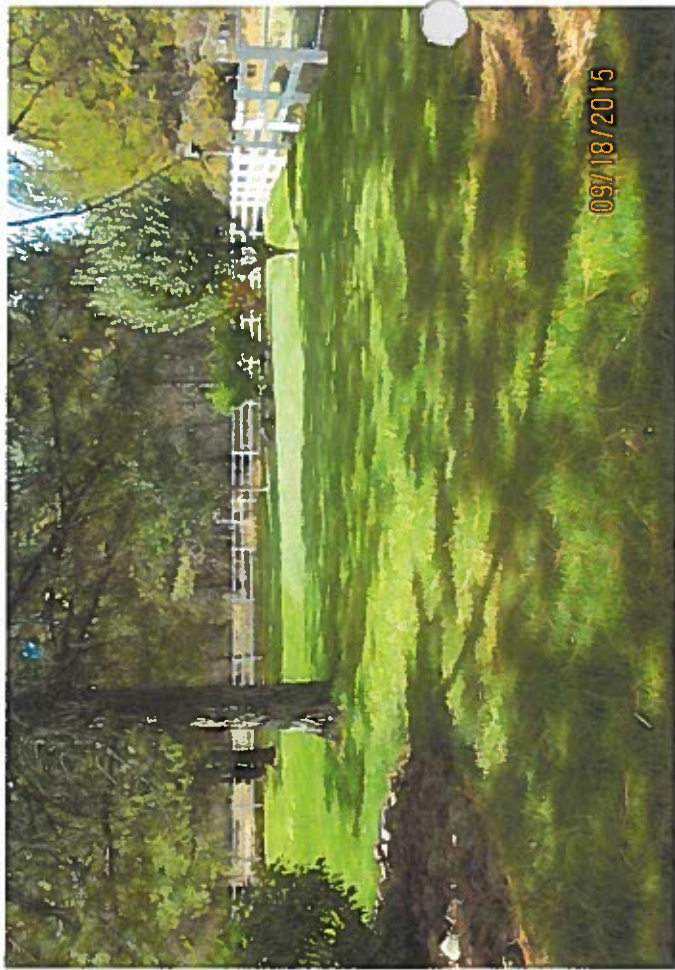
PUMP EQUATIONS WATER RIGHT No. 95-11128						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	3	362.517	0.8	270	40
Q = 0.058 cfs 26.2 gpm						

ASSUMED PUMP SET AT 270 FEET AND PSI AT 40.



95-11128





95-11128



95-11128



95-11128