

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-7494

Exam Date: 7/15/2015

1. Current Owner: PAUL LARSEN
PO BOX 712
PENDLETON OR 97801
(541) 429-0354

2. Accompanied by: Paul Larsen

3. SOURCE

SOLDIER CREEK

TRIBUTARY

PRIEST LAKE

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

SOLDIER CREEK L4 NW1/4NW1/4 Sec. 2, Twp 59N, Rge 04W, B.M. BONNER County

Method of Determination: GPS and maps. POD location at 48° 29.978, 116° 49.526

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				
	<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>	<u>Totals</u>
59N 04W 2						X											
						L 4											

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				
	<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>	<u>Totals</u>
59N 04W 2						4.0											4.0
						L 4											

Total Acres: 4

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[illegible]

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 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 Size</u>
	HONDA	3.5			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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: APPLICANT WAS WAITING TO GET NEW CARBURETOR FOR PUMP SO WAS UNABLE TO TURN PUMP ON. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r.

THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE $(3.5 \text{ HP})(8.8)(0.8) / 40 + (40 \times 2.3087) = 0.19 \text{ CFS}$

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

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4 \text{ AC} \times 3 \text{ AF} = 12.0 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.12 \times 214 \times 1.9835 = 50.9 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 12.0 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC USE FOR 1 HOME / RV SITE = 0.6 AF**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED 3.5 HP PUMP THAT WAS USED TO IRRIGATE 4 ACRES OF LAND, SUPPLY 1 RV AND FUTURE HOME SITE, AND COULD BE USED FOR FIRE PROTECTION PURPOSES. THEORETICAL PUMPING EQUATION ESTIMATES MAX FLOW OF 0.19 CFS. 12.6 AF WILL BE GIVEN ANNUAL VOLUME FOR IRRIGATION OF 4 ACRES AND DOMESTIC FOR 1 RV/ FUTURE HOME.

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>
DOMESTIC	01/01 to 12/31	0.040 CFS	0.60 AF
IRRIGATION	04/01 to 10/31	0.120 CFS	12.00 AF
FIRE PROTECTION	01/01 to 12/31	0.190 CFS	
<u>Totals:</u>		0.190 CFS	12.60 AF

2. Recommended Amendments

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

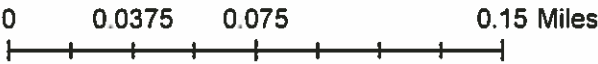
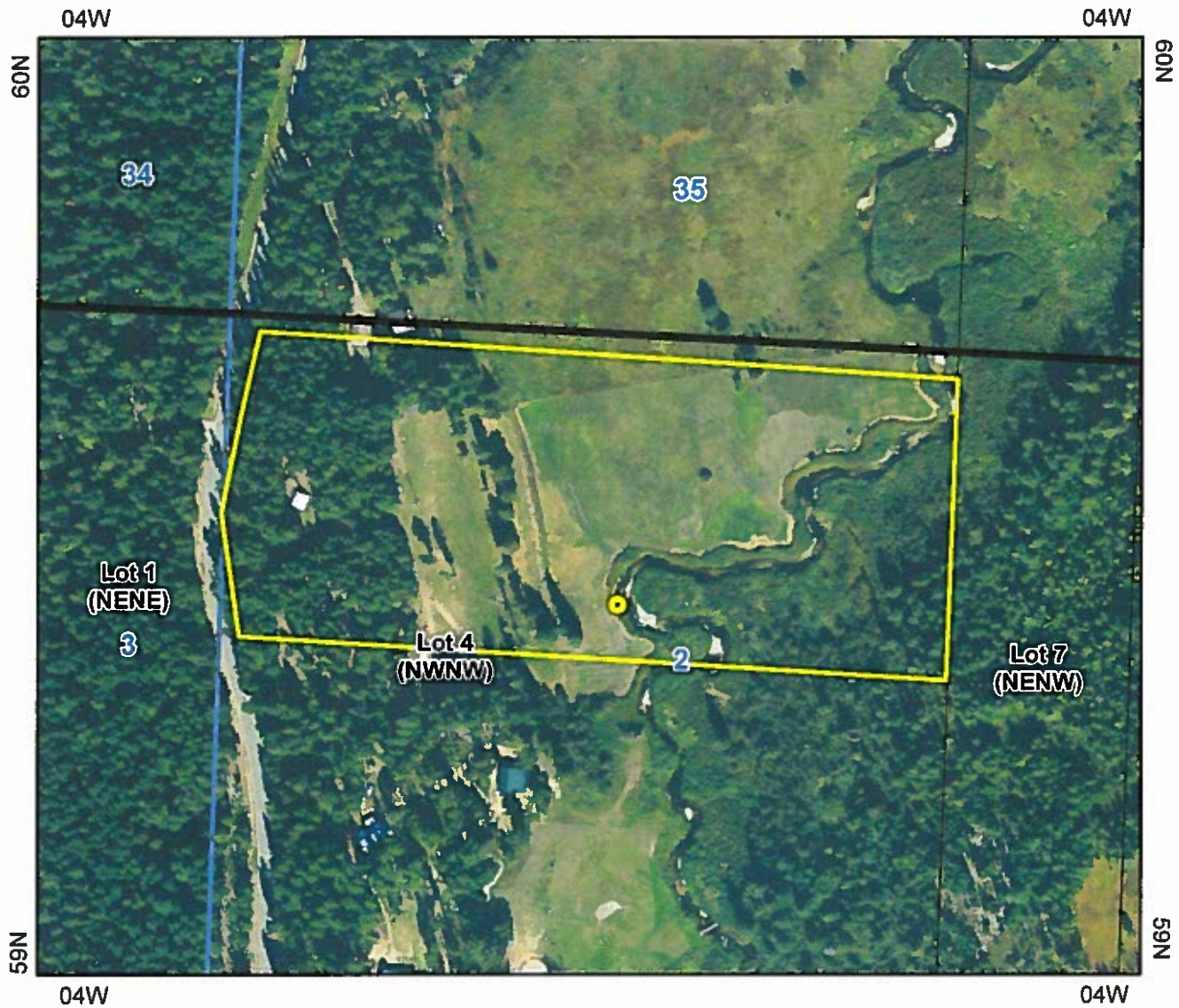
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Gordon Finkbeiner Date 12-17-2015

Reviewer [Signature] Date 12-17-2015

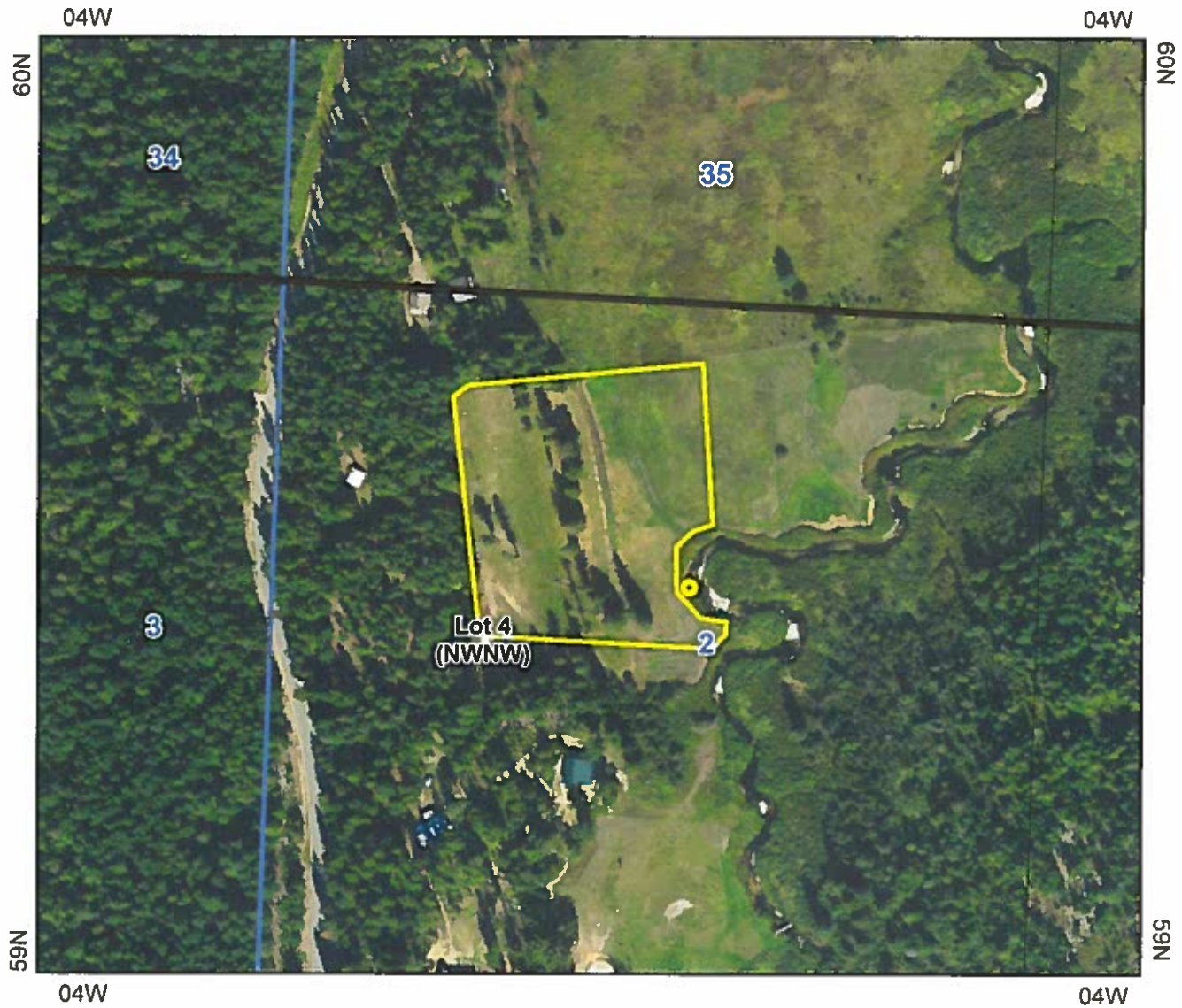
State of Idaho
Department of Water Resources
Water Right License
97-7494



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



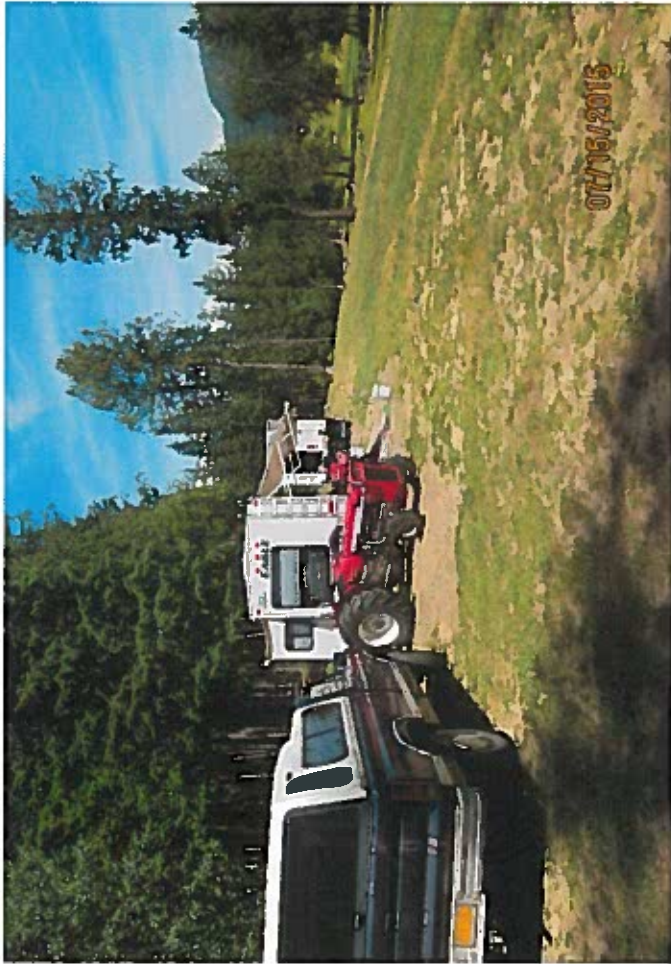
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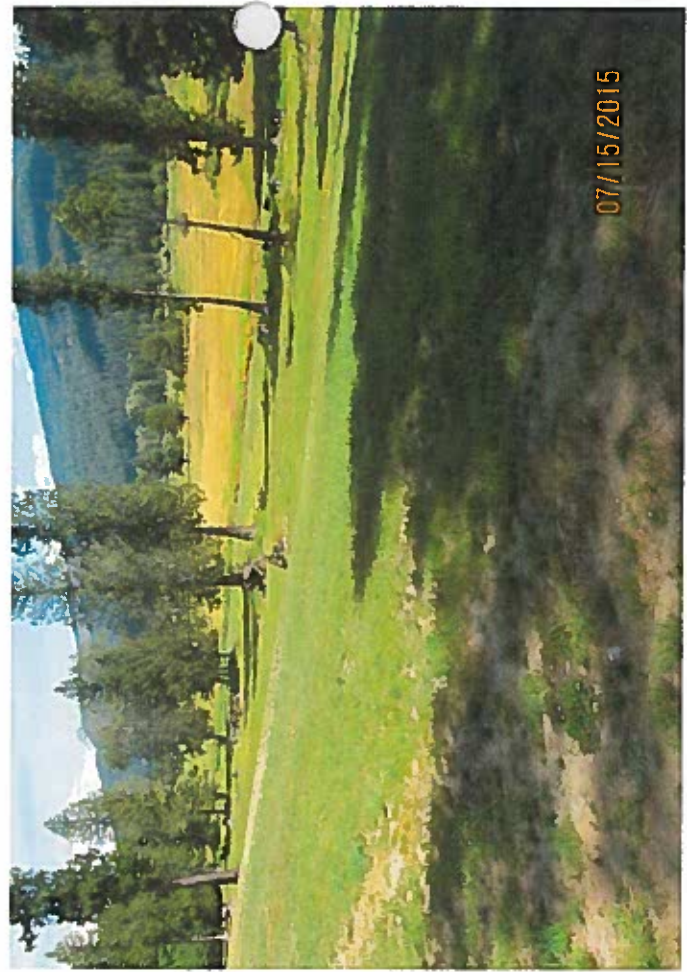
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

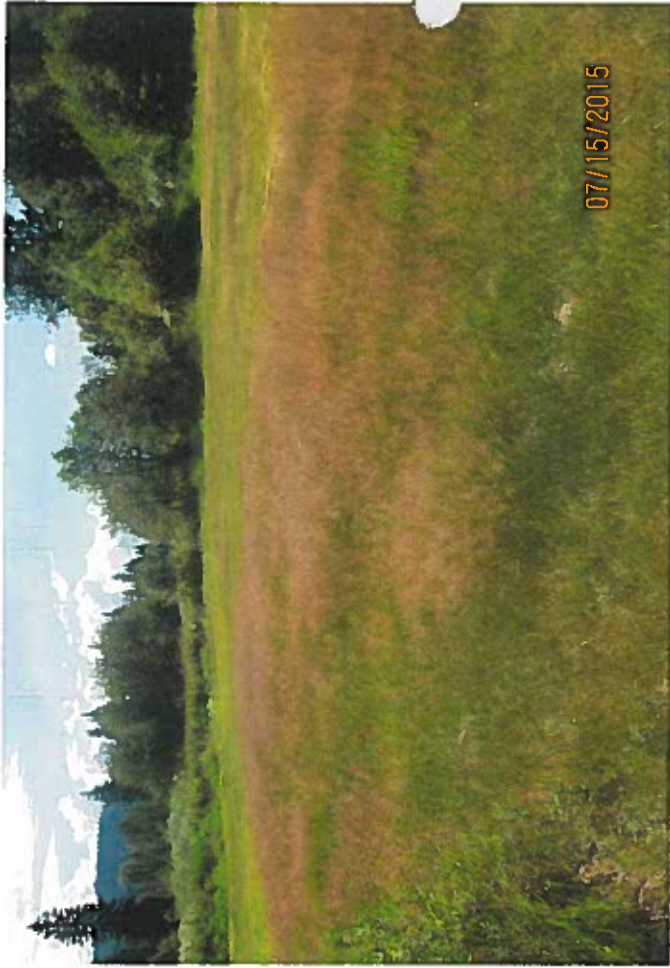
0 0.035 0.07 0.14 Miles





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