

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10026

Exam Date: 10/4/2013

1. Current Owner: LAURA PAUL
12200 E HUMMINGBIRD LN
ATHOL ID 83801
2. Accompanied by: OWNER
Phone No:
Address:
Relationship to Permit Holder:

3. **SOURCE**

UNNAMED STREAM

TRIBUTARY

SAGE CREEK

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:**

UNNAMED STREAM NW1/4SE1/4 Sec. 31, Twp 53N, Rge 02W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: STOCKWATER

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 31	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
														X			

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 31	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
														1.5			1.5

Total Acres: 1.5

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.

Well or Diversion
ID No.*

Motor MakeHpMotor Serial No.Pump Make

Pump Serial No. or Discharge
Size

A0003222

D. FLOW MEASUREMENTS

PUMP EQUATIONS WATER RIGHT No. 95-10026						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1.5	107.5170068	0.8	15	40
Q =	0.098 cfs 44.2 gpm					

Diversion per acre is 0.03 cfs X 1.5 acres of irrigation = 0.05 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 3\text{AF} = 4.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ 214 DAYS} \times 1.9835 = 12.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.5 \text{ AF}$$

2. Volume Calculations for Other Uses: 4 STOCK X 0.0134 = 0.0536 AF

G. NARRATIVE/REMARKS/COMMENTS: THE SPING SOURCE WAS NO USED.

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>
STOCKWATER	01/01 to 12/31	0.020 CFS	0.10 AF
IRRIGATION	04/01 to 10/31	0.050 CFS	4.50 AF
<u>Totals:</u>		0.07 CFS	4.60 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 *[Signature]* Date 12-06-2013

Reviewer *Keith E. Franklin* Date 12/23/2013



LAWN.JPG



POD.JPG



POWER.JPG



INTAKE LINE.JPG



STOCK.JPG

95-10026



1.5 HP PUMP.JPG





