

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 91-7149

Exam Date: 8/1/2007

1. Current Owner: ROBERT H TOMLINSON
1400 NORTHWOOD CTR CT STE E
COEUR D ALENE ID 83814
(208)667-8677

And/Or

WILLIAM R TOMLINSON
1400 NORTHWOOD CTR CT STE E
COEUR D ALENE ID 83814
(208)667-8677

2. Accompanied by: GARY GAINES

Phone No: (208) 245-4016

Address: SAME AS ABOVE

Relationship to Permit Holder: CARETAKER

3. SOURCE

ST JOE RIVER

TRIBUTARY

COEUR D ALENE 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:

ST JOE RIVER

L7 SW1/4NW1/4

Sec. 14, Twp 45N, Rge 03E, B.M.

SHOSHONE County

Method of Determination: GPS

2.

PLACE OF USE:

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
45N	03E	14	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	5.0
									5.0										5.0
									L 7										

Total Acres: 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>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*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>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements: 5 gal bucket 4 gal in 4 sec
- 60 gpm
- 0.135 cfs

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

PUMP EQUATIONS WATER RIGHT No. 91-7149					
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = HP*8.8*Eff/H	1.5	66.2585034	0.7	20	20
Q = 0.140 cfs 62.7 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \times 5 = 15 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .14 \times 214 \times 1.9835 = 59.4 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 15 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES WATER FROM THE ST. JOE RIVER FOR IRRIGATION. A MEASUREMENT OF 4 GALLONS IN 4 SECONDS WAS TAKEN DURING THE FIELD EXAM. THE SYSTEM USES A 1.5 HP PUMP AND HAS A 20 FT RISE FROM WATER LEVEL. THE SYSTEM RUNS ABOUT 20 PSI AT THE OUT FLOW.

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	04/01 to 10/31	0.140 CFS	15.00 AF
<u>Totals:</u>		0.140 CFS	15.00 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 9-6-07

Reviewer [Signature] Date 10/3/07

91-7149



0.09 0 0.09 0.18 Miles

-  Shoshone taxlots
-  GCDB45N03E GCDB
-  Right POD
-  Pou.shp
-  Pod.shp
-  Administrative BasinsAdminbas.shp





MEASUREMENT



PLACE OF USE 1



PLACE OF USE 2



PLACE OF USE 3



PLACE OF USE 4



POINT OF DIVERSION

91-7149



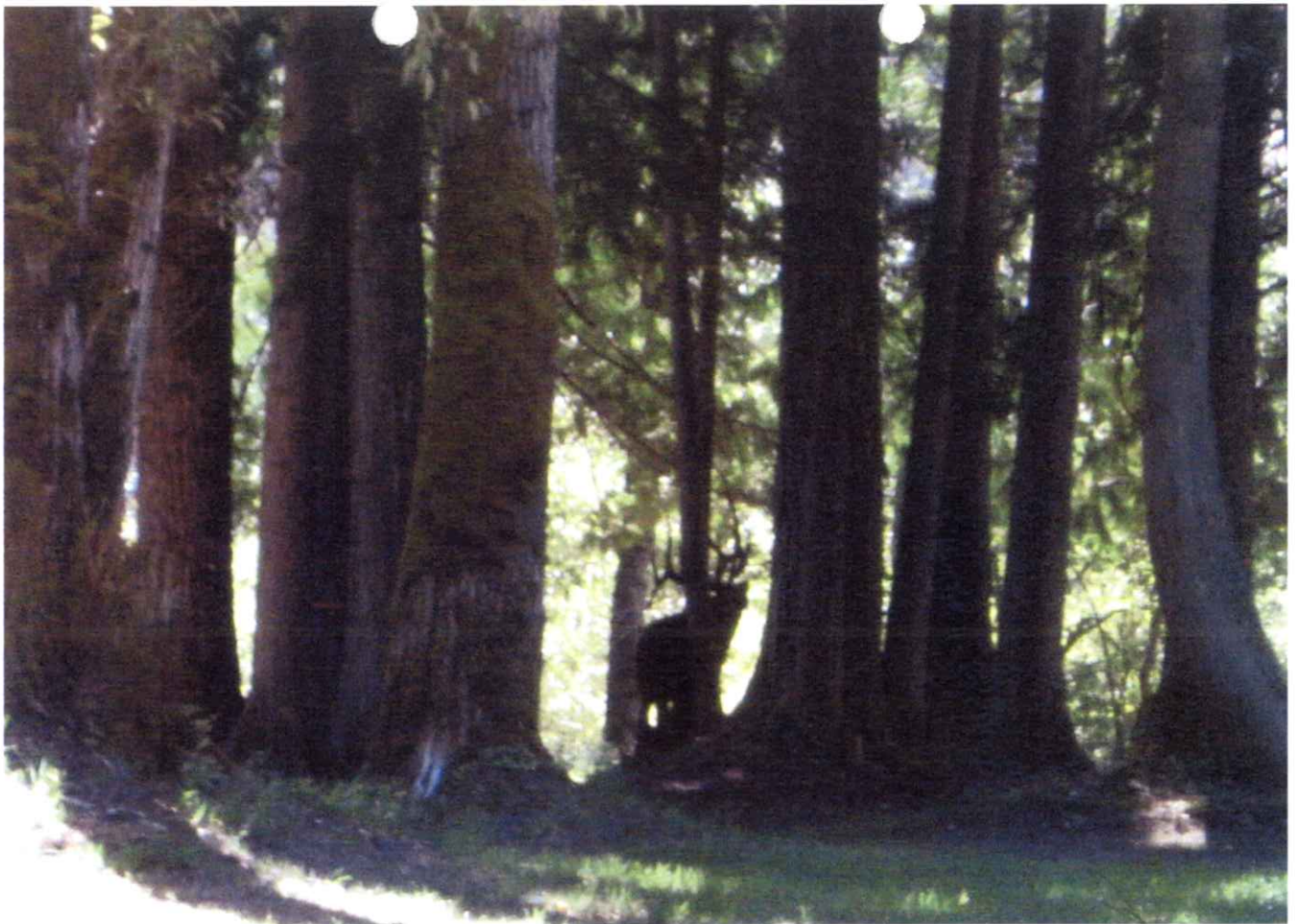
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