

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7605

Exam Date: 9/12/2012

1. Current Owner: SALMON RIVER PROPERTIES INC
BOX 4495
CHATSWORTH CA 91313

2. Accompanied by: Kori Rasmussen
Phone No: (208) 894-2291
Address: 58 Twin Peaks Ranch Road
Relationship to Permit Holder: Ranch Forman

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 SE1/4SW1/4 Lot 9, Sec. 3, Twp 18N, Rge 21E, B.M. LEMHI County

Method of Determination: GPS and Visual Inspection.

2.

<u>PLACE OF USE:</u>			IRRIGATION																
<u>Twp</u>	<u>Rge</u>	<u>Sec</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>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>
18N	21E	3												12					12
														L9					
18N	21E	10					4.2												4.2
							L 2												
Total Acres:		16.2																	

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
YES Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
YES Aerial Photo Attached
YES Photo of Diversion and System Attached

4. Unknown

Well or Diversion Pump Serial No. or Discharge

ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Size
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D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Calib. Date
Thyme Flyte	Polysonic	3/28/2012

2. Measurements:

Polysonic flow meter used to measure the well. A 10 minute average yielded 148.45 gallons per minute.

Average 148.45 gallons per minutes X 0.00223 = 0.33 cfs

The tape from the Thyme Flyte is attached

Recommended diversion rate for Irrigation: 0.33 cfs

E. FLOW CALCULATIONS

Permit allows 1.0 cfs

 X Additional Computation Sheets Attached

Theoretical calculation yielded 0.35 cfs

$$16.2 \text{ acres} \times 0.02 = 0.32 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 16.2 \times 3.5 = 56.7$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.33 \times 214 \times 1.9835 = 140.1$$

$V = \text{Smaller of } V_{I.B.} \text{ and } V_{D.B.} = 56.7$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

A well in T18N, R21E Section 10 SESW provides irrigation water for 16.2 acres on the west side of the Salmon River.

The well pumps water to a solid set pipe that runs east to west. Two wheel lines connect to this pipe, one on the south side and one on the north side.

Have conditions of permit approval been met? Y 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	4/15 to 10/15	0.33 CFS	
	Totals:	0.33 CFS	

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 James Hill Date 2/20/2013

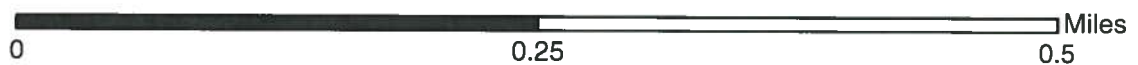
Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7605

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

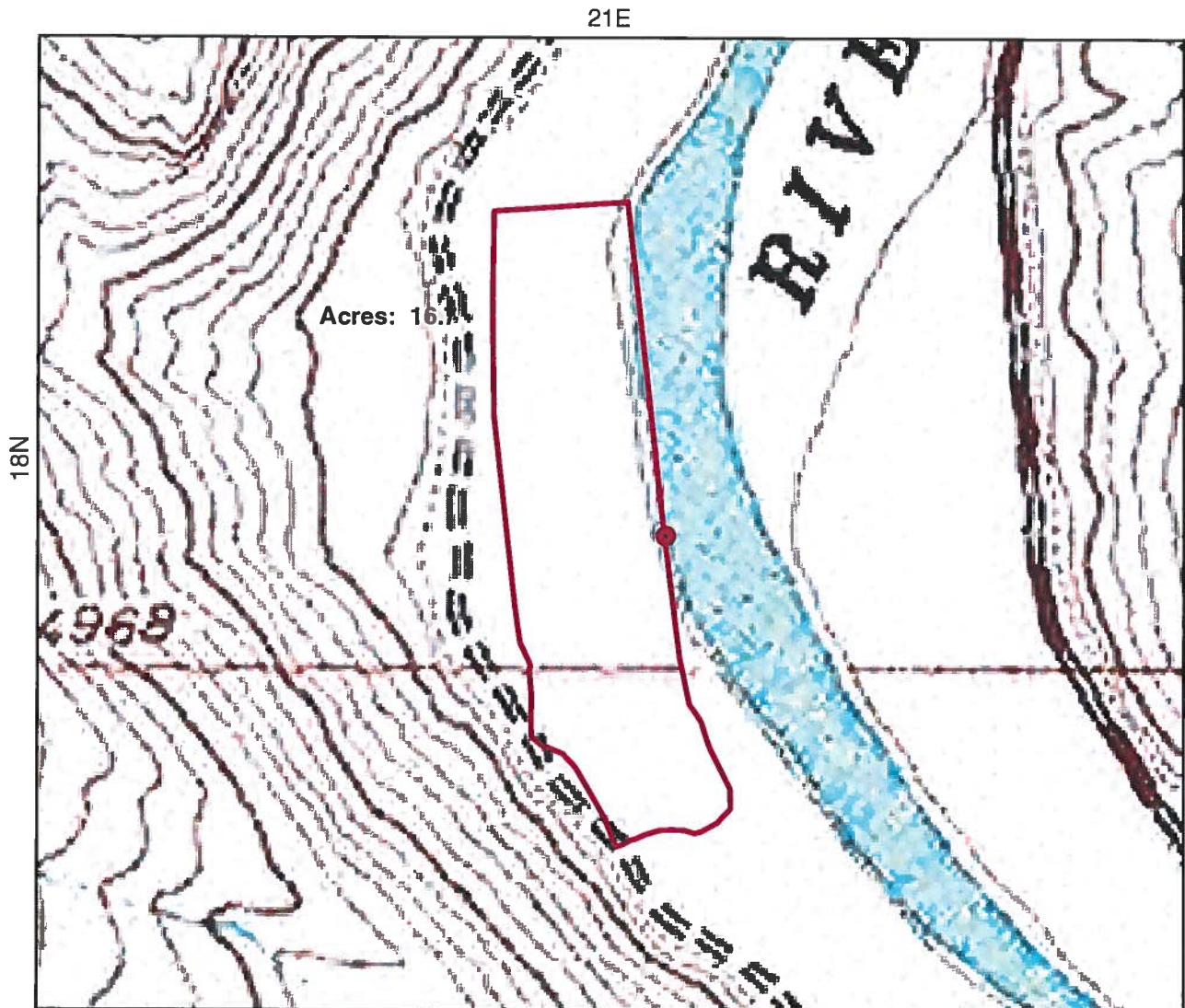


- Point of Diversion
- Place Of Use Boundary

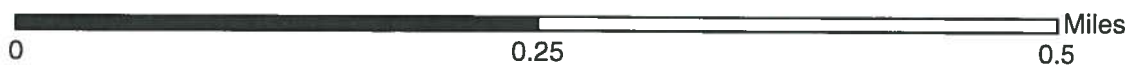


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- Point of Diversion
- Place Of Use Boundary



System Diagram for Water Right 75-7605



A well in T18N, R21E Section 10 SESW provides irrigation water for 16 acres on the west side of the Salmon River. The well, shown above as a green dot, pumps water to a solid set pipe that runs east to west. Two wheel lines connect to this pipe, one on the south side and one on the north side.

OUTER DIAMETER
6.0000 IN

PIPE MATL
? ALLOY

WALL THICKNESS
0.0420 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF PRESS
? FULL

DATE CHANGE
? NO

SPACING
3.945 IN U

09-12 09:5400
+000.00 % R12

0221.0 MMSEC
100.46 % T0

PRT UNIT GPM
NO

PRT UNIT GPM
YES

PRT UNIT MGD
NO

PRT UNIT FPS
NO

10:03+147.936E 06PM 00R
+00000 *10 KG 00H
-00000 *10 KG 00H

10:04+147.970E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:05+165.635E 06PM 00H
+00000 *10 KG 00H
-00000 *10 KG 00H

10:06+134.540E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:07+145.558E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:08+135.040E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:09+134.199E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:10+144.502E 06PM 00H
+00000 *10 KG 00H
-00000 *10 KG 00H

10:11+151.106E 06PM 00R
+00000 *10 KG 00H
-00000 *10 KG 00H

10:12+144.502E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:13+155.861E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:14+151.106E 06PM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

10:15+149.785E 06PM 00R
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75-7605

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THEORETICAL ANALYSIS

FILE: 75-7605

DATE: February 8, 2013

BY: Sandy Thiel

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$(8.8) \times (\underline{6}) \times (0.70) = 36.96$$
$$Q = \underline{\hspace{2cm}} = \underline{0.35 \text{ cfs}}$$

$$[(\underline{14}) + (\underline{40} \times 2.31)] = 106.4$$

LIFT FROM: PSI FROM: NOTES ON PUMP:

Measurement () Measurement ()

Owner (X) Owner ()

Area estimate () Estimate (X)

Well Logs () Owner Gage ()

Booster (N)

REMARKS: There was no information listed on the pump. The foreman who accompanied me during the field exam was my sole source of information

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, September 12, 2012
FILE NUMBER 75-7605



Field panorama

Well

Wheel Line



Top of the pump casing

Wheel line in the
background

