

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7539

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) 894-2291Address: 58 Twin Peaks Ranch RoadRelationship to Permit Holder: Ranch Forman3. SOURCETRIBUTARY

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

A review found that two water rights overlapped the place of use. 75-94 was disallowed in the SRBA. 75-2100 was superseded by decree and the child rights do not overlap this place of use.

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER L5 NW1/4SE1/4 Sec. 10, Twp 18N, Rge 21E, B.M. LEMHI County

Method of Determination: GPS and Visual Inspection.

2.

IRRIGATION within LEMHI County

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N	21E	10			14.5					2.1							14.2		30.8
Total Acres: 30.8																			

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Thyme Flyte	Polysonic					3/28/2012

2. Measurements:

Polysonic flow meter used to measure the well. A 12 minute average yielded 291.92 gallons per minute.

Average 291.92 gallons per minutes X 0.00223 = 0.65 cfs

The tape from the Thyme Flyte is attached

Permit allows 0.61 cfs

Recommended diversion rate for Irrigation: 0.61 cfs

E. FLOW CALCULATIONS

$$30.8 \text{ acres} \times 0.02 = 0.62 \text{ cfs}$$

 X Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 30.8 \times 3.5 = 107.8 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.61 \times 214 \times 1.9835 = 258.93 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 107.8 \text{ AF}$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

A well in T18N, R21E Section 10 NWSE (lot 5) provides irrigation water for 30.5 acres on the west side of the Salmon River. The well pumps water to a solid set pipe that runs southwest to northeast. Two wheel lines connect to this pipe. These 4-5 inch pipes run approximately 1,200 feet from the main pipe to the northwest. A three-inch handline connects to the mainline near the southwest and parallels the two wheel lines. Two handlines connect to the mainline to the southeast.

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>
IRRIGATION	4/01 to 10/31	0.61 CFS
	Totals:	0.61 CFS

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

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

I. AUTHENTICATION

Field Examiner's Name Sami Hilal Date 3/4/2013

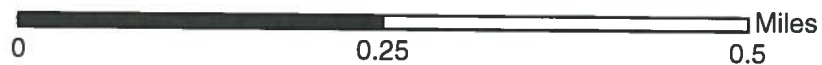
Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7539

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.

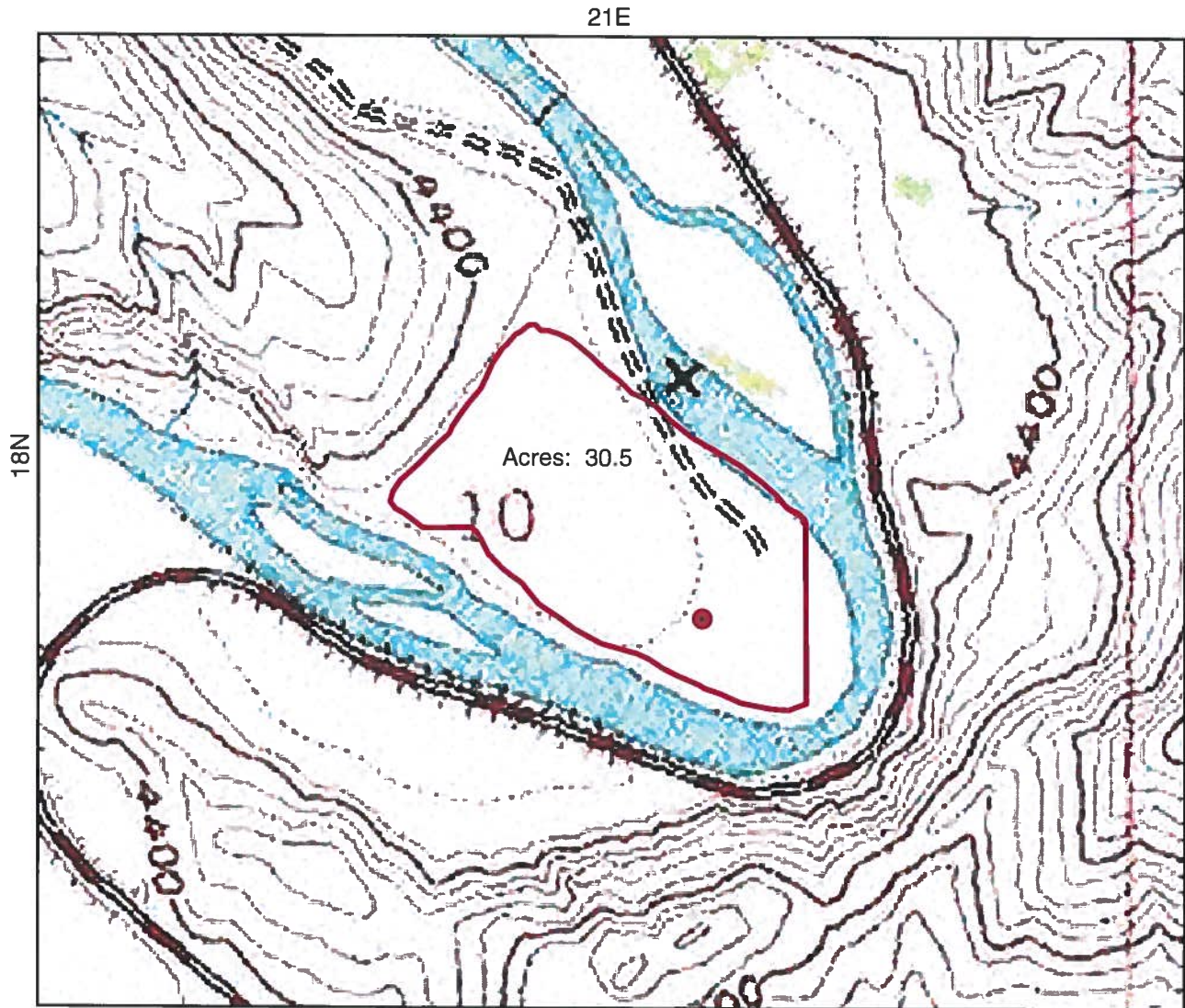


- Point of Diversion
- Place Of Use Boundary



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- Point of Diversion
- Place Of Use Boundary



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 75-7539
 Examiner: Sandy Thiel
 Date of Field Exam: 9/12/2012

P/D No.:	Option 1	OPTION 2	OPTION 3	
PUMP HORSEPOWER	20	20	20	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	46	46	46	
DISCHARGE PRESSURE	51	60	40	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.75	0.67	0.89	AVE
(gpm)	337.6	299.5	399.5	0.77

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Lift was taken from well log. The ranch foreman provided the horsepower

System Diagram for Water Right 75-7539



A well in T18N, R21E Section 10 NWSE (lot 5) provides irrigation water for 33.4 acres on the west side of the Salmon River. The well pumps water to a solid set pipe that runs southwest to northeast. Two wheel lines connect to this pipe. These 4-5 inch pipes run approximately 1,200 feet from the main pipe to the northwest. A three-inch handline connects to the mainline near the southwest and parallels the two wheel lines. Two handlines connect to the mainline to the southeast.

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

[illegible]

OUTER DIAMETER
3.0000 IN

PIPE MATERIAL
? CI, CU

WALL THICKNESS
0.0421 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
3.905 IN U

0224.3 MMSEC
101.47 % T0

09-12 10:5500 *R
+003.00 % AI2

0224.3 MMSEC
101.47 % T0

11:02+300.363E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:03+289.796E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:04+298.250E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:05+292.966E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:06+298.778E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:07+291.117E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:08+289.796E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:09+279.758E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:10+287.683E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:11+283.456E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:12+295.344E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

11:13+295.872E 0GPM 00R
+00000 *10 KG 00R
-00000 *10 KG 00R

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75-7531

75-7531

12 Minute average

271.92

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, September 12, 2012
FILE NUMBER 75-7539



Thyme Flyte measuring flow

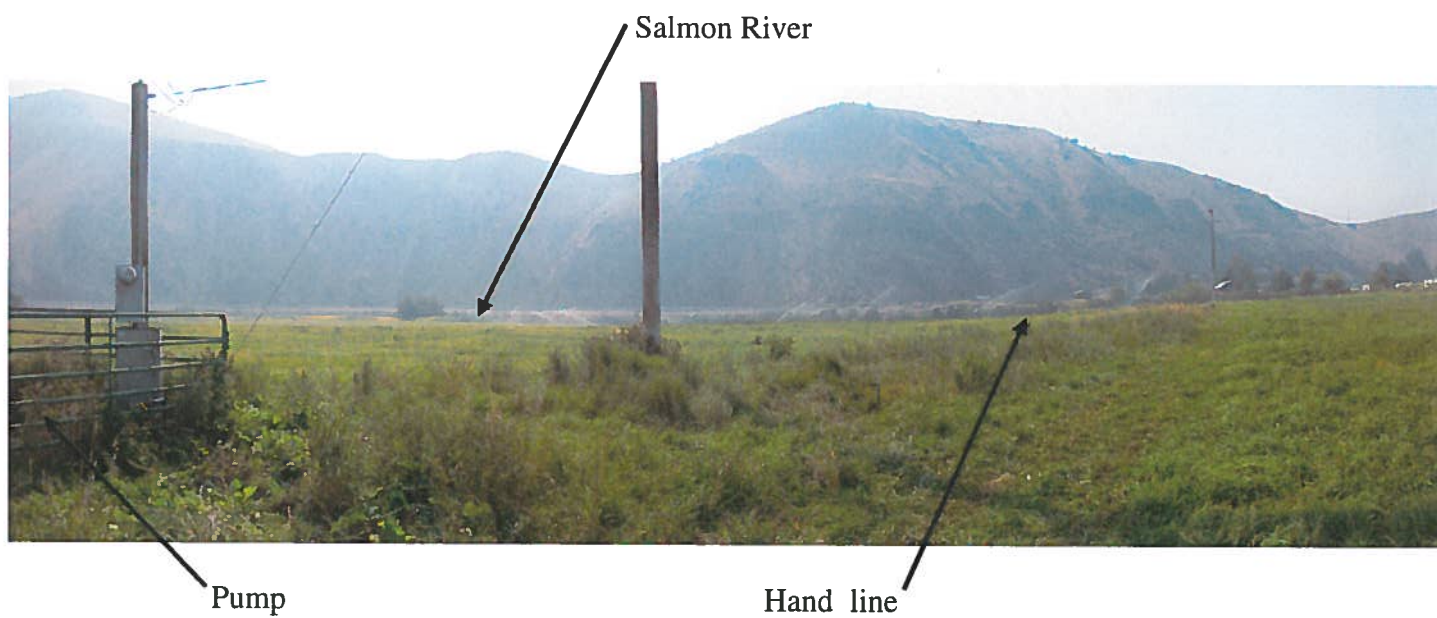
Tag A0017570



Pump enclosure



Irrigated field looking north, northwest from the pump



Irrigated field looking south, southwest