

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7180

Exam Date: 10/2/2012

1. Current Owner: RUSTY R GORE
PO BOX 806
NORTH FORK ID 83466

*See 12-12-12
memo Re: Ownership
C. S. Gordon*

2. Accompanied by: un accompanied

Phone No: n/aAddress: n/aRelationship to Permit Holder: n/a3. **SOURCE**

SALMON RIVER

TRIBUTARY

SNAKE RIVER

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:**

SALMON RIVER NE1/4SE1/4 Sec. 21, Twp 24N, Rge 21E, B.M. LEMHI County

Method of Determination: GPS and Visual Inspection

2.

PLACE OF USE:

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>
24N	21E	21													1.1				1.1

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0019125	Sears	1.5	390.262501	Sears	Pipe 1.5 inch
	Foster	1.5	FP517208	Foster	Code 1F03J

D. FLOW MEASUREMENTS

- Measurement Equipment none
- Measurements: none taken

E. FLOW CALCULATIONSMeasured Method: Not able to take measurement because the pump was not running1.1 acres X 0.02 = 0.02 cfsTheoretical Analysis: 0.09 cfs

(see attached sheet)

Permit rate: 0.10Total recommended rate of diversion: 0.02**F. VOLUME CALCULATIONS**

- Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.1 \times 3.5 = 3.85$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 215 \times 1.9835 = 8.53$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{3.85}$$

- Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

Two pumps in Township 24 north, Range 21 east, section 21, NESE provide irrigation water for 1.1 acres. A small inlet of approximately 105 feet on the Salmon River, allows water to flow to the pumps. During the spring high water, the land is inundated with river water. Two underground sprinkler pipes irrigate the lawn on either side of the pumps.

Have conditions of permit approval been met? X 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	4/01 to 11/01	0.02 CFS	
<u>Totals:</u>		0.02 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 Ernie Ben Tui Date 12/10/2012

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7180

This map depicts the RECREATION 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
-  Townships
-  PLS Sections
-  Quarter Quarters



System Diagram for Water Right 75-7180



Two pumps, shown as a red dot, in Township 24 north, Range 21 east, section 21, NESE provide irrigation water for 1.1 acres (shown in blue). A small inlet of approximately 105 feet on the Salmon River, allows water to flow to the pumps. Two underground sprinkler pipes irrigate the lawn on either side of the pumps. During the spring high water, the land is inundated with river water.

GROUNDWATER THEORETICAL ANALYSIS

FILE: 75-7180

DATE: December 10, 2012

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])

$$Q = \frac{(8.8) \times (\underline{1.5}) \times (0.70)}{[(\underline{5}) + (\underline{40} \times 2.31)]} = \underline{0.09 \text{ cfs}}$$

$$[(\underline{5}) + (\underline{40} \times 2.31)] = 97.4$$

LIFT FROM:

Measurement ()

Owner ()

Area estimate (X)

Well Logs ()

PSI FROM:

Measurement ()

Owner ()

Estimate (X)

Owner Gage ()

Booster (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Sears / Foster

Pump Make, Serial or ID, rating

390.262501 / FP517208

REMARKS: There are two pumps, side by side, with the same horse power.
Both pumps together could pump 0.36 cfs

MEMORANDUM

TO: Water Rights File 75-7180
FROM: Sandra Thiel
DATE: December 7, 2012
SUBJECT: Phone conversation with Jack Smith

October 5, 2012

I spoke with Jack Smith on October 5 two days after I stopped by his place on the Salmon River near North Fork. He said that he irrigates the land just below the buildings, on the river. During the spring high water, the river often floods this area. Mr. Smith said that he does not irrigate the land just upstream from the roughly one acre field and that it is flooded in the spring as well.

There is a domestic well on the south east corner of the main house. The tag number is D0020257. There is a second domestic well between the main house and a cabin on the property.

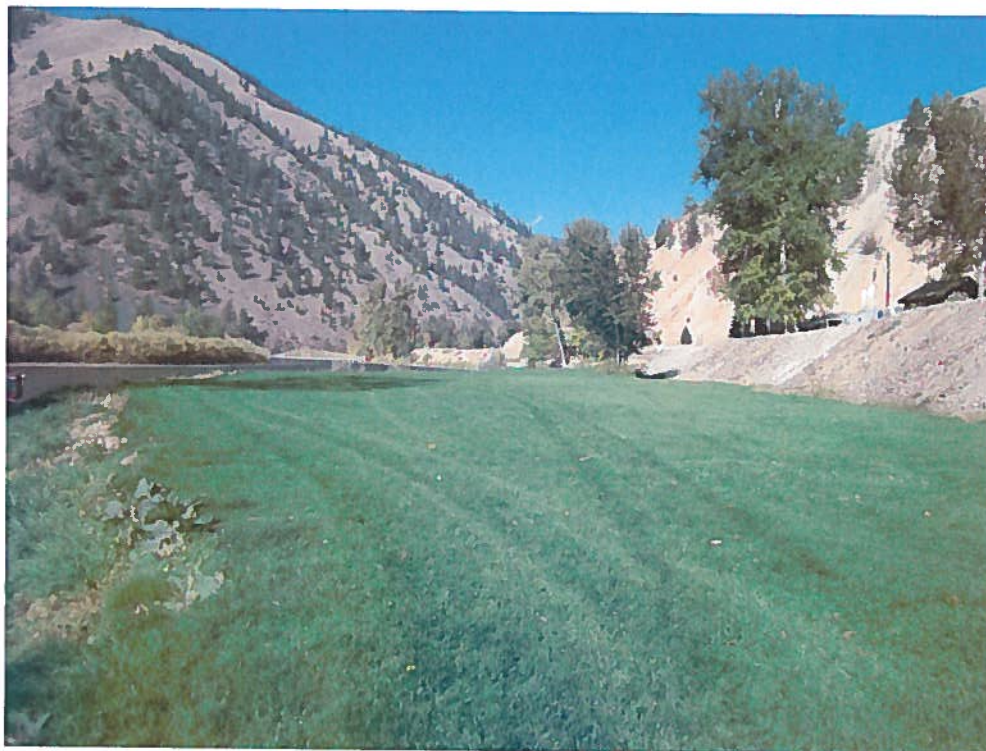
PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, October 2, 2012
FILE NUMBER 75-7180



This photo shows
the pumps in
relation to the
Salmon River,
looking southwest



Close up of the
pumps showing the
location of tag:
A0019125



Under ground sprinkler pipes provide water for the irrigated land
This photo shows the irrigated lawn looking north, northwest





Irrigated land in the foreground,
looking east