

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7492

Exam Date: August 8, 2012

1. Current Owner: GENE RAY GATTUNG
18273 W QUAIL LN
IDAHO FALLS ID 83854
(208)818-5573
2. Accompanied by: Jana Gattung
Phone No: 208.756.3704
Address: 88 Lois Lane
Relationship to Permit Holder: Sister of current land owner
3. SOURCE TRIBUTARY
GATTUNG SLOUGH SALMON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 75-4062 and 75-14737
2. Other water rights with the same point of diversion: none

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GATTUNG SLOUGH SW1/4SE1/4 Sec. 12, Twp 20N, 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>
20N	21E	12												.4		1.1	25.0	.3	26.8
Total Acres:		26.8													L 1				

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.
4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Site Tag # A0017588	Well Guard	10	Class 8940	Type NPF 2012 Series B	

D. FLOW MEASUREMENTS

1. Measurement Equipment
2. Measurements: none

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: Not able to take measurement because the pump was not running

Theoretical amount = 0.54 cfs (see attachment)
 The permit allows 0.8 cfs for 40 acres
 26.1 acres X 0.02 = 0.52 cfs

Recommended diversion amount for irrigation of 26.1 acres: 0.52 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 26.1 \times 3.5 = 91.35$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.52 \times 214 \times 1.9835 = 220.72$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{91.4}$$

2. Volume Calculations for Other Uses: n/a

G. NARRATIVE/REMARKS/COMMENTS

A pump located in Township 20 N, Range 21 E, Section 12, SESW in Lemhi County supplies water from Gattung Slough for 26.8 acres. The pump provides water through a 6 inch solid set line, and the movable pipe along the main pipe. A second diversion in the same QQ allows for flood irrigation from a side channel of the slough. Water runs north from the side slough through several small channels to irrigate the rest of the field.

Water is available in the Gattung Slough through mid to late summer. As the level of the Salmon River drops so does the level of the Slough. In late summer and early fall, water from Rainbow Ditch can be diverted into Gattung Slough to provide enough water to irrigate.

An overlap review showed that water right 75-14737 from Williams Creek contributes water to at least some of the acres covered under this permit. When this water right and 75-14737 are combined they are limited to 51.4 acres, 1.03 cfs and 180 af.

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	04/15 to 10/15	0.520 CFS	
	<u>Totals:</u>	0.520 CFS	91.4 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 Sandra Benoit Date May 1, 2013

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7492

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.



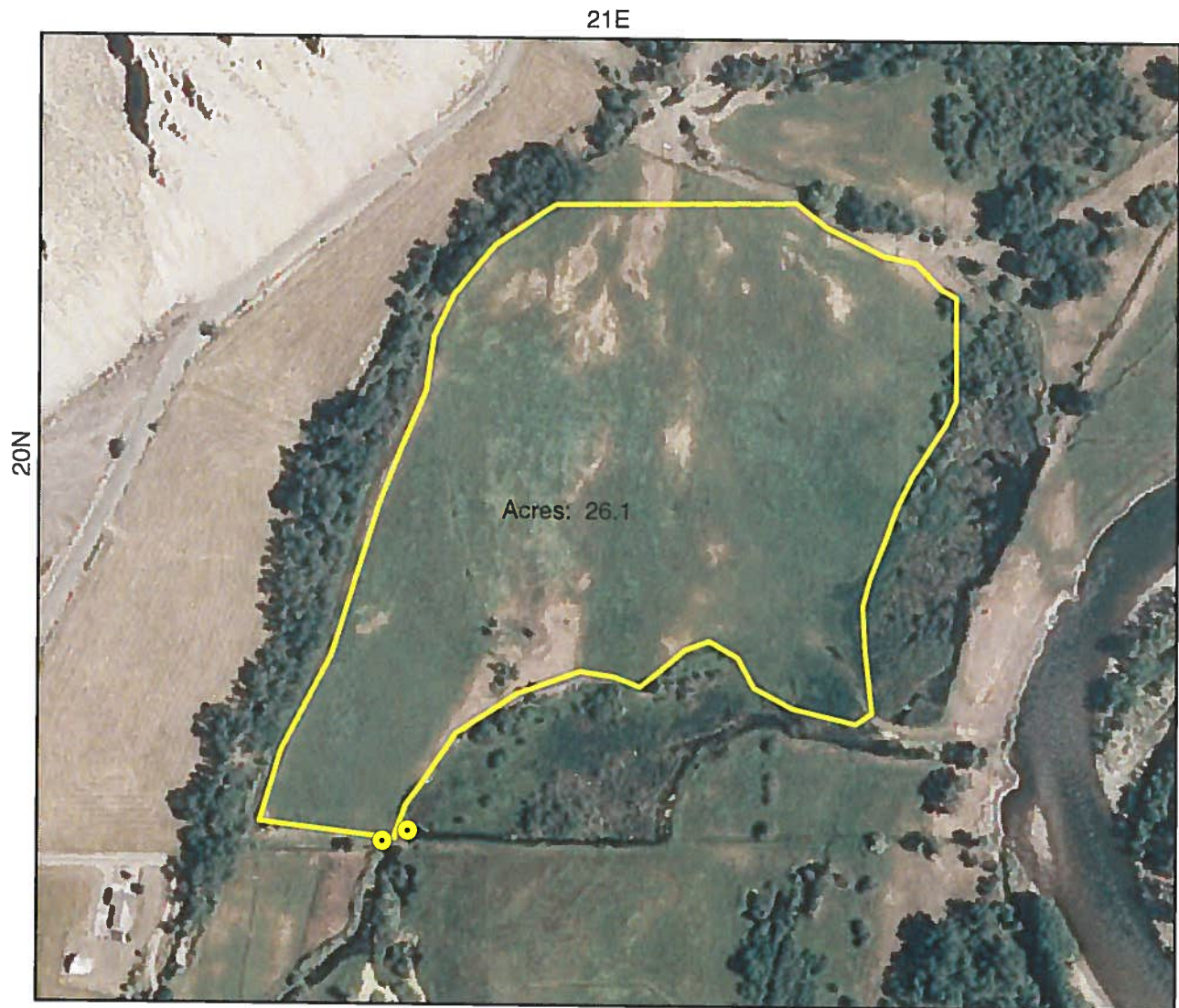
- Point of Diversion
- ▭ Place Of Use Boundary
- ▭ Townships
- ▭ PLS Sections
- ▭ Quarter Quarters



0 Miles 0.25

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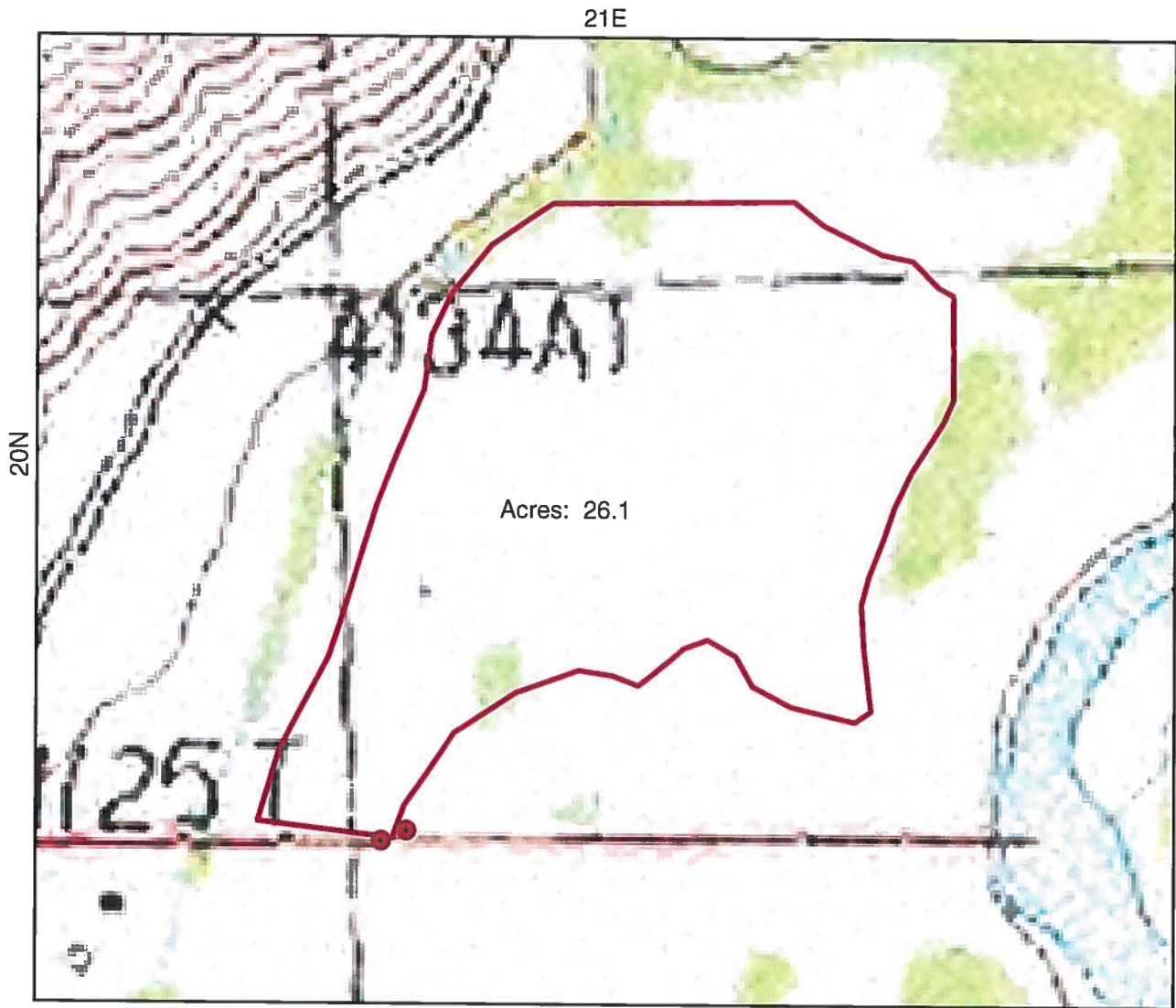


- Point of Diversion
- Place Of Use Boundary

0 0.25 Miles

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- Point of Diversion
- Place Of Use Boundary

0 Miles
0.25

Water Distribution System Water Right 75-7492



A pump, labeled above, located in Township 20 N, Range 21 E, Section 12, SESW in Lemhi County supplies water from Gattung Slough for 26.8 acres. The pump provides water through a 6 inch solid set line. Movable pipes attach to the mainline. A second diversion in the same QQ allows for flood irrigation from a side channel of the slough. Water runs north from the side slough through several small channels to irrigate the rest of the field.

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THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 75-7492
 Examiner: Sandra Thiel
 Date of Field Exam: 1/23/2013

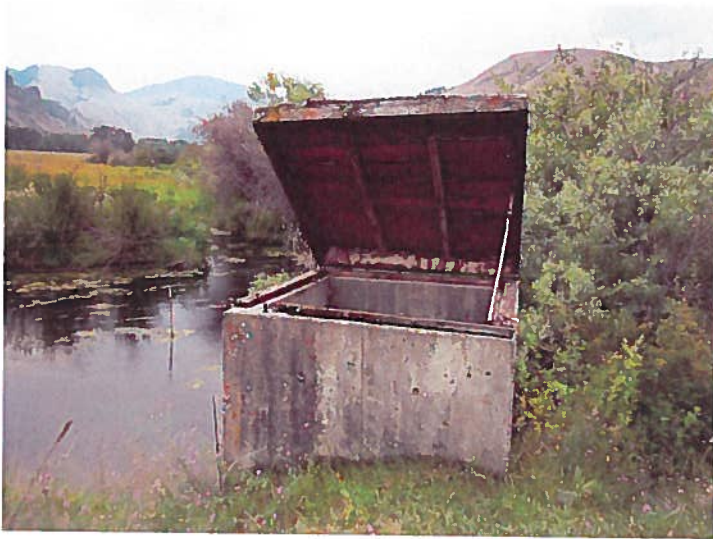
P/D No.:	Option 1	OPTION 2	OPTION 3	
PUMP HORSEPOWER	10	10	10	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	2	2	2	
DISCHARGE PRESSURE	40	50	60	
FRICTION	0			
RATE OF FLOW (cfs)	0.65	0.52	0.44	AVE
(gpm)	292.9	235.3	196.6	0.54

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.

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, August 8, 2012
FILE NUMBER 75-7492



This photo shows the structure that houses the pump that diverts water from Gattung Slough, seen in the background

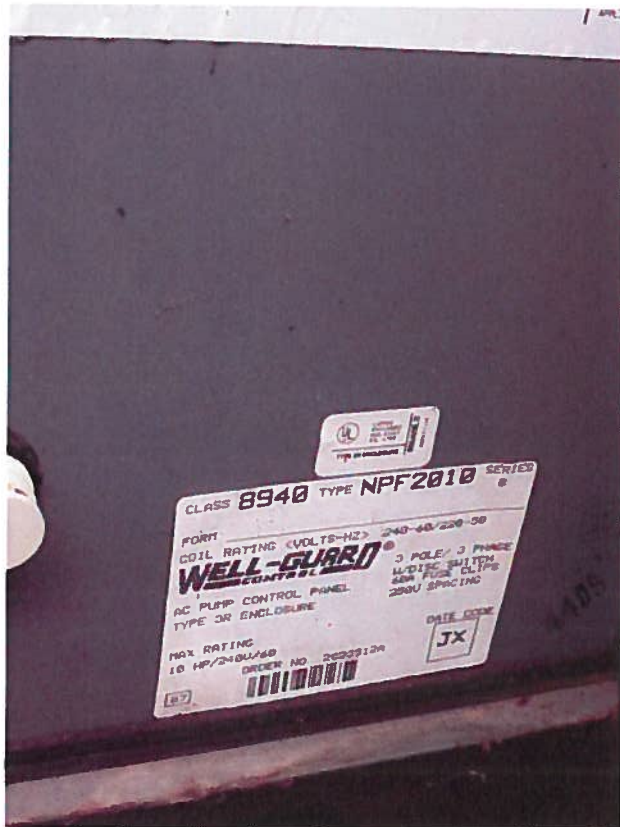
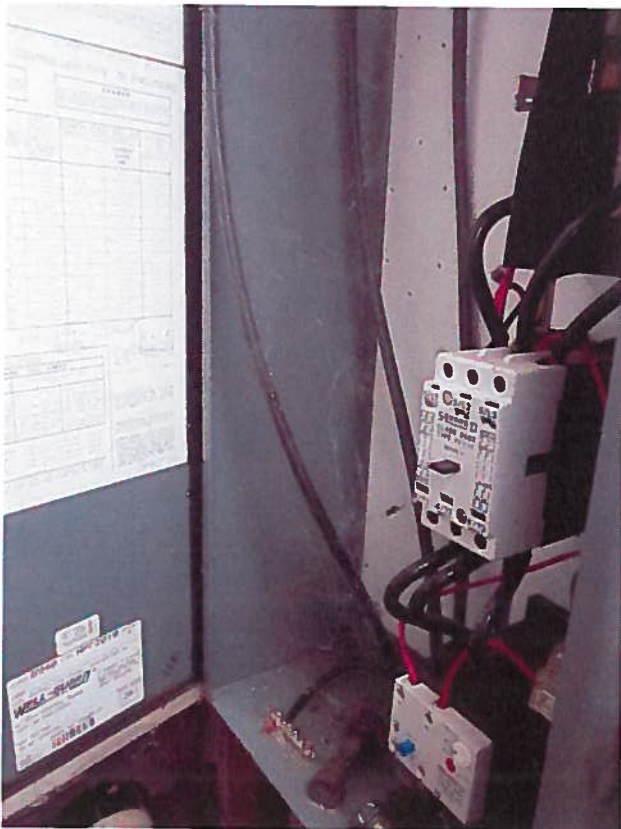


This photo shows the southern end of the land irrigated with this right, looking north. This also shows the power supply for the pump.



Land irrigated with this water right, looking north from near the pump

Tag A0017588



Inside the pump house structure