

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit Nos: 75-7374A and B

Exam Date: 8/6/2012

1. Current Owner: First Federal Savings and Loan Association Logan Utah

2. Accompanied by: none

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE** Twelve Mile Creek**TRIBUTARY** Salmon River**B. OVERLAP REVIEW**1. Other water rights with the same place of use: *see attachment***75-7374 priority date: 6/20/1983**

75-7496 (9/18/1989) for 3 acres of irrigation from an unnamed stream Gary and Robbie Lemarr. They have a domestic well for the house on the property.

75-14598 (3/14/1889) – Hutchings for irrigation from Twelve Mile Creek – 0.05 cfs per acre. 1.3 acres owned by Hutching in the NENW is part of the POU for this water right. The second place of use is on the west side of the highway

75-10037 (7/1/1983) Hutchings for domestic and stock – this appears to be a nominal – the Hutchings own a house on the west side of the highway.

75-10037 (7/1/1983) Marv Hutchings – ground water for stockwater and domestic. The water right identifies the place of use as RP 19N21E010008A. No parcel was found with that identifier.

75-4399A (11/23/1922) and 75-14167 (5/1/11955) Tommy and Sandra Luce Twelve Mile Creek irrigation on their property for 6.7 acres at over an inch per acre

75-11622 (5/11/1971) Lee and Carolyn Roberson from spring for domestic

75-7015 (5/11/1971) Lee and Carolyn Roberson irrigation from Twelve Mile Creek on their property 5 acres at an inch per acre

75-4112 (11/23/1922) Martin Nash Twelvemile Creek irrigation 5 acres at an inch per acre and stockwater on his property

75-10242 (5/1/1969) Kathe Rhodes domestic ground water with ½ acre irrigation (property to the south of Deutchman's)

75-14428 (10/24/1918) Kathe Rhodes irrigation for 4.3 acres at an inch per acre from Twelve Mile Creek

75-7374B Kent Rhodes irrigation of 4.3 acres (GIS acres 30.3) from Twelve Mile Creek. **75-7374B** also is a draft license.

75-14148 (10/24/1918) Adam Deutchman Irrigation 7.2 acres from Twelve Mile Creek at an inch per acre. Does not overlap with license place of use.

75-4506B (11/23/1922) Richard Ellis (Ella Deutchman's father – need a change of ownership) irrigation at an inch per acre from Twelve Mile Creek

2. Other water rights with the same point of diversion:

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:** none

TWELVEMILE CREEK NE1/4NE1/4 Sec. 1, Twp 19N, Rge 21E, B.M. LEMHI County

Method of Determination: GPS

2. **PLACE OF USE:** IRRIGATION

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
19N	21E	1	0.9 L 1	0.4 L 2															1.3

Total Acres: 1.3

DOMESTIC same as IRRIGATION

Method of Determination:

2.

Method of Determination: GIS Mapping and Visual Inspection3. Y Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.Y Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.Y Aerial Photo Attached (required for irrigation of 10+ acres).Y Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0017538	Briggs & Stratton	3.5	550XR Professional	Pacer	500 2# centrifugal SEB2PLE4C

D. FLOW MEASUREMENTS

1. NA

Measurement

Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
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2. Measurements: No measurements – Small black pipe

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method: NA

1.2 acres X 0.03 = 0.036 or 0.04 cfs

Theoretical found 0.2 cfs

Recommended 0.02 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.2 \times 3.5 = 4.2 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .02 \times 214 \times 1.9835 = 8.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.2 \text{ AF}$$

*(less than 5 acres)

2. Volume Calculations for Other Uses: NA

G. NARRATIVE/REMARKS/COMMENTSHave conditions of permit approval been met? ☒ Yes ☐ No

A point of diversion in T19N R21E Section 1 NENE (Lot 1) supplies irrigation water for 1.2 acres of land. Twelvemile Creek also supplies in-house domestic use for the trailer located on the property. The parcel falls in the NWNE, Lot 2 and the NENE, Lot 1. **See attachment**

H. RECOMMENDATIONS**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	0.6 AF
IRRIGATION	04/01 to 10/31	0.02 CFS	
<u>Totals:</u>		0.020 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 Sandra Thiel Date 11/18/2016

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 75-7374
 Reviewer: Sandra Thiel
 Date of Review: 5/13/2016

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

#1
3.5
0
2
45
0.20
91

#2
3.5
0
5
45
0.20
89

#3
3.5
0
10
45
0.19
85

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.
 No Friction

Examiners Notes:

Pump: Pacer Pump Series 550 2" centrifugal 3.5 hp SEB2PL
 Motor: Briggs & Stranton 550 XR Professional Series



Click on image to zoom



Pacer Pump Series 550 2"centrifugal 3.5hp SEB2PL E4C

SKU: 40044 | **In stock.**

Ships in 1-2 business days.

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DETAILS

SPECS

WARRANTY

REVIEWS

Q & A

- Flow (GPH) - 9,000
- Max. PSI - 44
- Engine - Briggs & Stratton
- Engine Type - OHV
- Engine Displacement (cc) - 127
- Engine Speed (RPM) - 3,600
- Suction Port (in.) - 2
- Discharge Port (in.) - 2
- Max. Suction Lift (ft.) - 25
- Max. Total Head (ft.) - 100



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DETAILS | **SPECS** | **WARRANTY** | **REVIEWS** | **Q & A**

- Flow (GPH) - 9,000
- Max. PSI - 44
- Engine - Briggs & Stratton
- Engine Type - OHV
- Engine Displacement (cc) - 127
- Engine Speed (RPM) - 3,600
- Suction Port (in.) - 2
- Discharge Port (in.) - 2
- Max. Suction Lift (ft.) - 25
- Max. Total Head (ft.) - 100
- Self-Priming - Yes
- Solid Handling (in.) - 1/8
- Pump Housing - Glass-filled polyester
- Check Valve - EPDM rubber
- Seals - EPDM
- Impellers - Glass-filled polyester
- Volute - Glass-filled polyester
- Max. Fluid Temp. (deg.) - 200
- Start Type - Recoil
- Fuel Capacity (gal.) - 0.52
- Run Time - 45min. - 1hr.
- Low Oil Shutdown - No
- Dimensions L x W x H (in.) - 21 x 17 x 15
- Manufacturer Warranty - NTE 1 year RA/Exchange Policy
- Net Weight - 44.0 lbs

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or Check Order Status by Phone: 1-800-561-1752

Store Locator:

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PHOTOGRAPHER AND DATE OF PHOTOS Sandy Thiel, September 7, 2014
FILE NUMBER 75-7374A



Diversion from Twelvemile Creek
The bridge is downstream from the fence

The yellow tarp shades the pump

Pipe in stream





Pump location



Irrigated yard