

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 71-10901
Exam Date: 6/16/2016

1. Current Owner:
JACK E WALTON And LILLIE WALTON
PO BOX 368 STANLEY ID 83278 (208)774-2060

2. Accompanied by: Jack Walton permit holder

:

3. **SOURCE:**
SALMON RIVER

TRIBUTARY:
SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Permit 71-10902
2. Other water rights with the same point-of-diversion: None

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

SALMON RIVER L10 (SW¼SE¼SW¼) Sec. 3, Twp 10N, Rge 13E, B.M. CUSTER County

Method of Determination: Field observation and GPS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
10N	13E	3												X L 10					

Method of Determination: Field observation and Aerial Photo

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A		1	C48K2EC15	Flotec	1"

D. FLOW MEASUREMENTS

A measurement is not required for domestic use if diversion rate does not exceed 0.24 cfs according to new Beneficial Use Examination Rules dated 3/29/2012

Not required for permits with irrigation less than five (5) acres per new Beneficial Use Examination Rules implemented 3/29/2012

Theoretical yield: $Q = \frac{8.8 \times (HP) \times (EFF)}{H}$

Where: HP = 1.0 HP (acquired from plate on pump)

EFF = Pump Efficiency = 70% (assumed)

H = Total Dynamic Head = (total lift) + (2.31 x operating pressure). Total lift was estimated at 5 ft based on field observations. Operating pressure estimated at 40 psi based on typical lawn sprinkler.

$$H = 8 \text{ ft} + (2.31 \times 40.0 \text{ psi}) = 100.4 \text{ feet}$$

$$Q = \frac{8.8 \times (1.0) \times (0.70)}{100.4} = 0.06$$

$$Q = 0.06 \text{ CFS}$$

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: None

F. VOLUME CALCULATIONS

Not required for permits with irrigation using natural stream flow from a stream or spring per new Beneficial Use Examination Rules implemented 3/29/2012.

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit 71-10901 was filed on June 05, 2006 by Jack E. and Lillie E. Walton for domestic use for 0.04 cfs from the Salmon River. The permit was approved on July 24, 2006 and proof of beneficial use was due on or before July 1, 2007. Proof of Beneficial use was submitted on November 3, 2006. On June 16, 2016 I met with Jack Walton to conduct the licensing exam. During my visit Mr. Walton verified the point of diversion and place of use as well as demonstrated the capability of the irrigation system. The system developed under permit 71-10901 consists of a 1.0 HP Flotec pump that diverts water from the Salmon River by the use of a fish screen to the 1.25" intake at the pump and a 1.0" discharge line to 0.75" hose for the irrigation system. The IDF&G provided the fish screen for the applicant's use. Because of the type of fish screen provided by IDF&G for the applicant this satisfies the screening and approach velocity condition requirement at the point of diversion. A theoretical estimate of the system indicates that a 1.0 HP pump can produce up to 0.06 cfs, which exceeds the permitted rate of 0.04 cfs. Beneficial Use Examination Rules states, for irrigated acreage of five (5) acres or less, a diversion rate up to three one-hundredths (0.03) cfs per acre may be allowed on the license to be issued by the Director. It is recommended that license 71-10901 be issued for domestic purposes with a rate of 0.02 cfs. It is also recommended that this right, 71-10901, along with any additional domestic rights, is limited to 13,000 gpd and no more than 0.5 acres of irrigation. The permit was issued with Water District 170 standard conditions for watermaster requirements. At licensing these conditions should be removed as a result of the preliminary order for Water District 170, dated December 10th, 2012, exempting domestic water rights as defined by Idaho Code §§ 42-111 and 42-1401A(11) from watermaster regulation.

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>
DOMESTIC	05/01 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

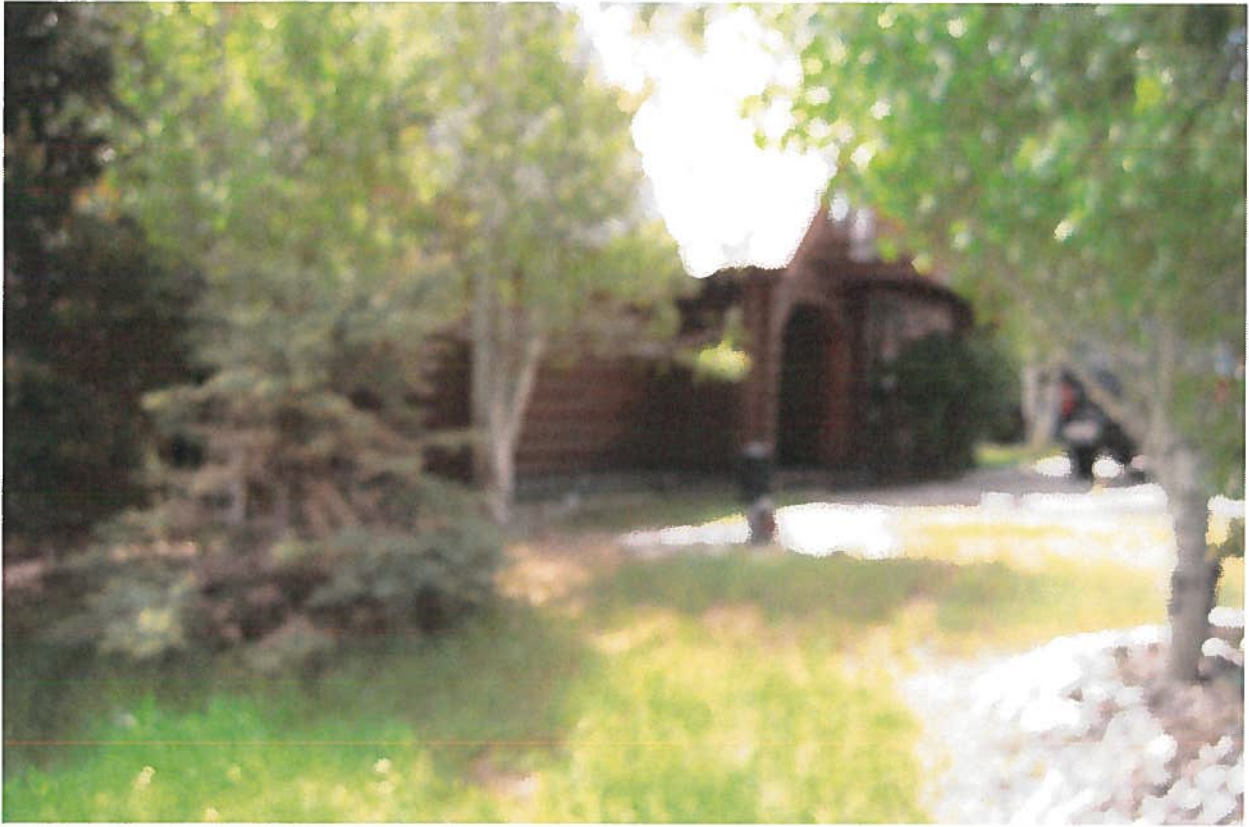
____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ None

I. AUTHENTICATION

Field Examiner's Name Benny Walker Date 2/28/17

Reviewer _____ Date _____

Permit 71-10901



Home and Landscaping



Field Exam: 71-10901

Permit 71-10901

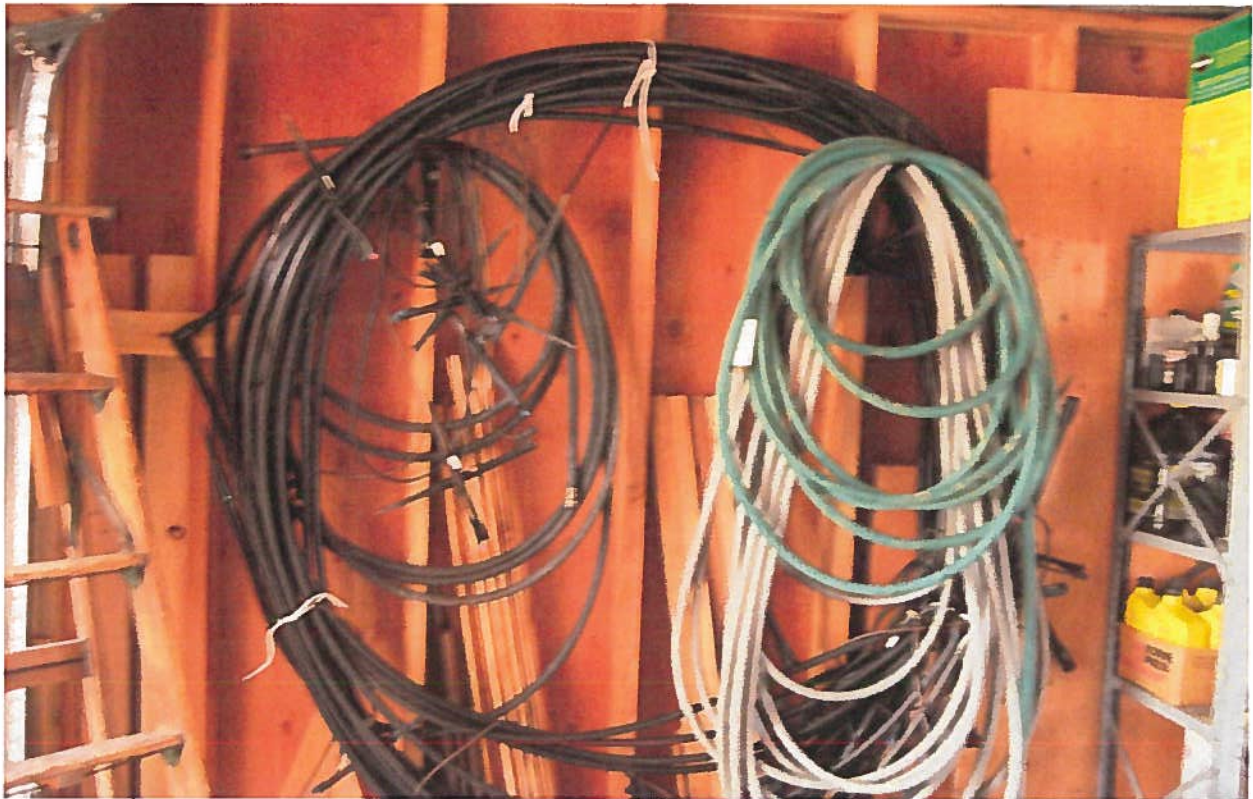


Landscaping



Field Exam: 71-10901

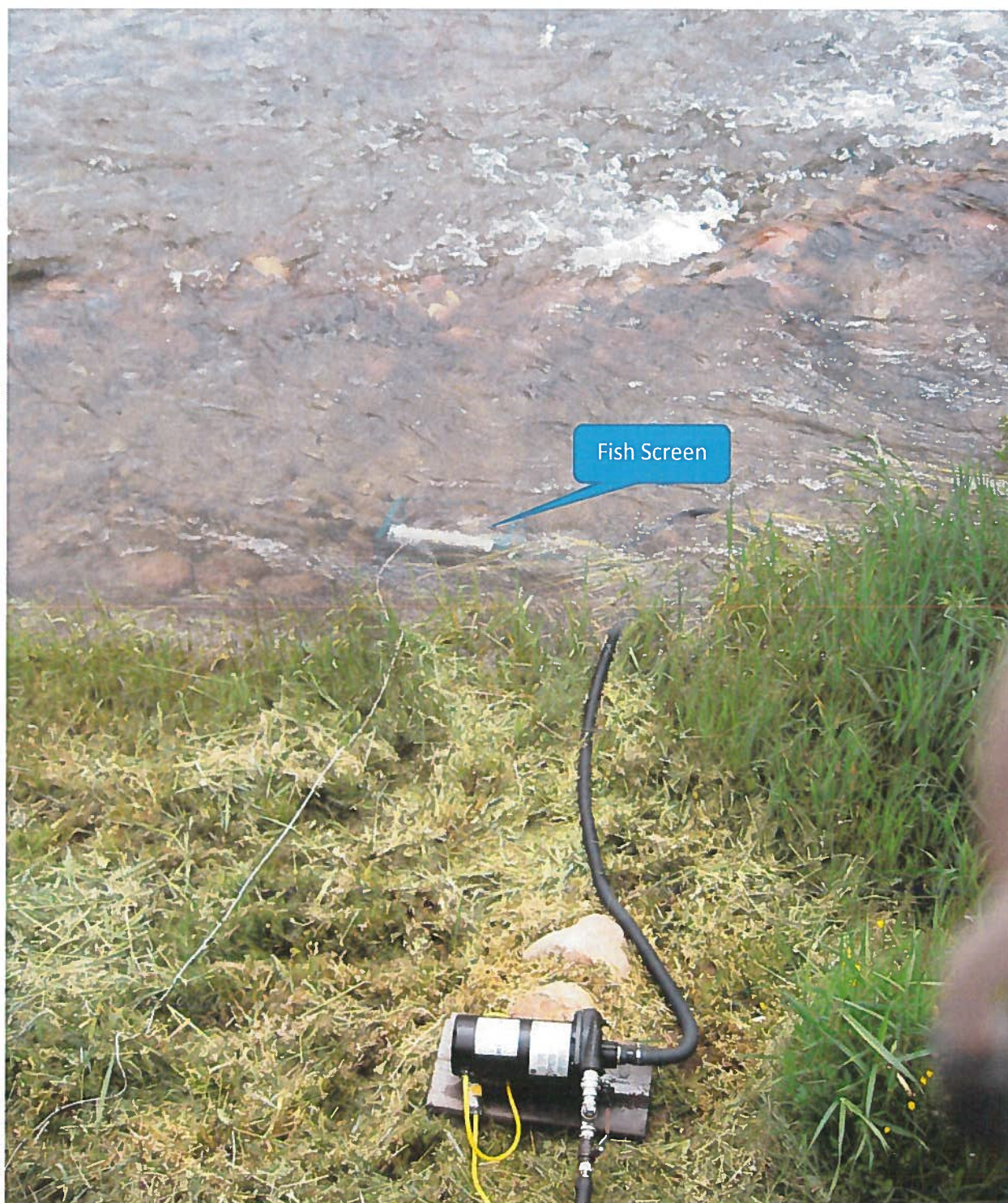
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Irrigation System



Field Exam: 71-10901



Fish Screen and Pump from Salmon River



SESW 1/4

3

10N13E

Place of Use

SESW

Point of Diversion

Field Exam:
71-10901

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community


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FP5532 | 1 HP CAST IRON CENTRIFUGAL PUMP

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Model FP5532

Cast Iron Centrifugal Pump 1 HP

Economical, general purpose centrifugal pumps can be used for water transfer, circulation, fountains, waterfalls, pressure boosting and sprinkling

KEY FEATURES

- Superior performance at depths to water of 25' or less
- Rugged, heavy-duty cast iron pump housing
- Maximum pumping capacities to 68 GPM
- Ready-to-install 230 volt motor (dual voltage)

WARRANTY

1 year limited warranty

**SPECIFICATIONS****RESOURCES**

BODY CONSTRUCTION: Cast Iron
HORSEPOWER: 1
MAXIMUM CAPACITY: 47 GPM
MAXIMUM LIFT: 25'
MAXIMUM DISCHARGE PRESSURE: 49 psi
MAXIMUM INLET PRESSURE:
MAXIMUM TOTAL PRESSURE:
SUCTION PIPE SIZE: 1-1/4" NPT
DISCHARGE PIPE SIZE: 1" NPT
AMP DRAW (full load): 7.4 amps on 230v / 14.8 amps on 115v
VOLTAGE: 230v / 115v, 60 Hz
RECOMMENDED BREAKER: 15 amp for 230v / 20 amp for 115v
LIQUID TEMP RANGE: 140 °F (60 °C)

Performance

Performance	
Flow (GPM)	Head (ft)
0	25
10	24
20	22
30	18
40	12
47	0

Accessories

BRASS CHECK VALVES
 1-1/4" BRASS FOOT VALVE
 1-1/4" PLASTIC FOOT VALVE
 WELL DRIVE POINT - 1-1/4" X 48"
 WELL DRIVE POINT - 1-1/4" X 36"
 1-1/4" DRIVE COUPLING
 WELL SEAL 2" X 1-1/4"
 WELL SEAL 4" X 1-1/4"
 WELL SEAL 6" X 1-1/4"

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PERFORMANCE									
MODEL/UPC	HP	MAX. PRESS.	DISCHARGE PRESSURE (PSI)						
			25	30	35	40	45	50	55
FP5552 022315135963	2	57	68	62	54	48	38	29	7
FP5542 022315135956	1-1/2	51	59	52	47	40	30	15	-
FP5532 022315135949	1	49	47	40	35	29	17	-	-
FP5522 022315135932	3/4	43	31	25	21	13	-	-	-
FP5512 022315135925	1/2	36	22	13	2	-	-	-	-