

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 74-15889

Exam Date: 02/24/15

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Tracy
Owner of Record Correct? X Y N
Address of Record Correct? X Y N
If No: Address

3. Beneficial Use Fees have been paid: X Y N Receipt No: E040280

4. SOURCE TRIBUTARY

Groundwater

Method of Determination: Well Log

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
74-15911	Recommendation	Irrigation	Beneficial Use

Comments: 74-15624 & 74-10169 (Simpson) – SW of POU, RP21N23E2900006; 74-15890, 74-179D & 74-4006 (Stokes) – South of POU, RP21N23E297202

2. Other water rights with the same point of diversion: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: No overlapping GW POD in QQ.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			SW	NE	29	21N	23E	B.M.	Lemhi
								B.M.	

Method of Determination: Well Log – no information provided more specific than QQ. Used permit location.

Change in POD? Y X N Amendment Required? Y X N

2. PLACE OF USE: 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	
21N	23E	29			2.5					0.3									
		Lot #																	
Total Acres =																			2.8

Method of Determination: GIS Imagery and recommendation shape of 74-15911

Change in POU? Y X N Amendment Required? Y X N

___ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

___ Aerial Photo Attached (required for irrigation of 10+ acres).

___ 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

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: < _____ >

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 2.8 acres(0.03 cfs) = 0.08 cfs

See theoretical sheet: 0.08 cfs is possible for a 5 HP pump. 5 HP is a common groundwater irrigation pump.

Per App. Processing Memo #3, 0-10 livestock, 0.02 cfs

Measurement = 0.08 cfs

Permit allowed = 0.08 cfs

License recommend for 0.08 cfs irr and 0.02 cfs stock.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.8 \times 3.5 = 9.8$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.0 \times 246 \times 1.9835 = 39.0$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 9.8$$

2. Volume Calculations for Other Uses:

Per App. Processing Memo #3, 0-10 livestock, 0.02 afa

G. PURPOSE OF USE

Irrigation ___X___Y___N # Stock___3 horses___ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ___Y___N

Method of Determination: GIS Imagery and application

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

- In Wild and Scenic Watershed: Salmon River Excluding Middle Fork
 Season of Use: 03/15-11/15 (246 days)
 Headgate: 3.5
 Cons. Use: 2.5
 Water District 74

Conditions

Prior to diversion of water under this right, the right holder shall install a lockable device, subject to the approval of the Department, in a manner that will provide suitable control of the diversion.

- In house exam – carry to licensing

The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.

- In house exam – carry to licensing

Upon specific notification by the Department, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.

When notified by the Department or by a watermaster with regulatory authority over this right, the right holder shall report the amount of water diverted in connection with this right. The report shall be submitted in the manner and frequency specified by the Department or the watermaster.

Spoke to Carter F. regarding the 74-15911 on 03/03/15. Licensing 74-15889 should not impact 74-15911. The ground irrigated by 74-15911 is the same ground irrigated by 74-15889. 74-15889 is for wastewater. No X35 condition as 74-15889 is a beneficial use right, not yet decreed at time of field exam.

Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/15 to 11/15	0.08 CFS	9.8 AF
Stockwater	01/01 to 11/31	0.02 CFS	0.02. AF
<u>Totals:</u>		0.08 CFS	9.8 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 ☒ None

Other: < >

J. AUTHENTICATION

Field Examiner's Name Danielle Lamm Date 03/03/15

Reviewer Daniel D. Nick Date 3-4-15

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 74-15889
 Reviewer: D. Favreau
 Date of Review: 3/3/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	287	287	287
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.08 36	0.08 34	0.07 32
			0.08 34.42

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:

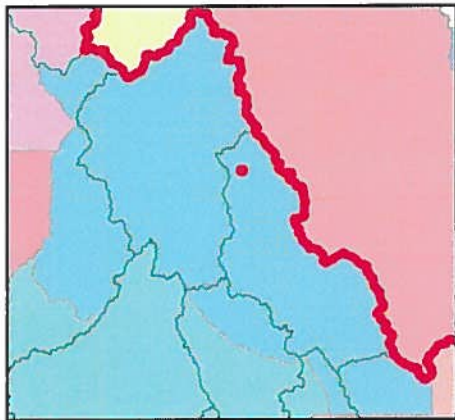
The horsepower as indicated on appliation. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated from the well log - pump likely placed between 272 and 302 ft.



Idaho Department of Water Resources

Water Right
74-15889
(IRRIGATION)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Lemhi County
IDWR Basin 74

Prepared by Favreau, Danielle

Background: No-Imagery-2013 N/AIP



[illegible]

Water Right	74-15740	N	EAGLE VALLEY RANCH LLC	BOHANNON CREEK, WIMPEY CREEK	POU	3.9			1.2					16.4		9.3	30.8
Water Right	74-15793	N	OLSON, KATHLEEN; OLSON, V DON	LEMHI RIVER	POD											X	0
Water Right	74-15798	N	MUDD, DANIEL J	LEMHI RIVER	POD											X	0
Water Permit	74-15889	N	TRACY, MALINDA; TRACY, VINCENT	GROUND WATER	POD		X										0
Water Permit	74-15889	N	TRACY, MALINDA; TRACY, VINCENT	GROUND WATER	POU		3.8			0.2							4
Water Permit	74-15889	N	TRACY, MALINDA; TRACY, VINCENT	GROUND WATER	POU		X			X							0
Water Right	74-15890	N	STOKES, BETTY W; STOKES, EARL DEAN	BOHANNON CREEK	POU		14.8			3.0	24.3	13.0		13.0	30.0	7.0	105.1
Water Right	74-15891	N	EAGLE VALLEY RANCH LLC	BOHANNON CREEK	POU	19.2	36.0		9.7								64.9
Adjudication Recommendation	74-15911		TRACY, MALINDA; TRACY, VINCENT	WASTE WATER	POD		X										0
Adjudication Recommendation	74-15911		TRACY, MALINDA; TRACY, VINCENT	WASTE WATER	POU		2.5				0.3						2.8
Water Permit	74-15915	N	TARKALSON, JIM; TARKALSON, REAH	SPRINGS	POU					3.0		3.0					6
Water Right	74-15956	N	SANTOS, VERNE	LEMHI RIVER	POD											X	0
Water Right	74-15956	N	SANTOS, VERNE	LEMHI RIVER	POU					2.0		1.0					3
Water Right	74-15957	N	SANTOS, RICHARD A	LEMHI RIVER	POD											X	0
Water Right	74-1682	N	STATE OF IDAHO	LEMHI RIVER	POD											X	0
Water Right	74-1682	N	STATE OF IDAHO	LEMHI RIVER	POU											X	0
Water Right	74-1683	N	STATE OF IDAHO	LEMHI RIVER	POU											X	0
Water Right	74-173	N	EAGLE VALLEY RANCH LLC	BOHANNON CREEK	POU	3.9			1.2					16.4		9.3	30.8
Water Right	74-179A	N	JOLLEY, E DALE; JOLLEY, MILDRED H	BOHANNON CREEK	POU				18.0	40.0	20.0						78
Water Right	74-179C	N	EAGLE VALLEY RANCH LLC	BOHANNON CREEK	POU	19.2	36.0		9.7								64.9
Water Right	74-179D	N	STOKES, BETTY W; STOKES, EARL DEAN	BOHANNON CREEK	POU		14.8			3.0	24.3	13.0		13.0	30.0	7.0	105.1
Water Right	74-180A	N	JOLLEY, E DALE; JOLLEY, MILDRED H	BOHANNON CREEK	POU				18.0	40.0	20.0						78
Water Right	74-1811	N	REESE, E P; REESE, ELEANOR	GROUND WATER	POD									X			0
Water Right	74-1811	N	REESE, E P; REESE, ELEANOR	GROUND WATER	POU									X			0
Water Right	74-1872	N	EAGLE VALLEY RANCH LLC	SPRINGS	POU									X			0
Water Right	74-1873	N	EAGLE VALLEY RANCH LLC	SPRINGS	POD											X	0
Water Right	74-1873	N	EAGLE VALLEY RANCH LLC	SPRINGS	POU									X		X	0

[illegible]