

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

A. GENERAL INFORMATION

Permit No: 13-7883

Exam Date: 2/4/2014

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- 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: Eric & Rexanne Neilsen
- Owner of Record Correct? ☒ Yes ☐ No
- Address of Record Correct? ☒ Yes ☐ No
- If No: Address

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: CO97543

4. **SOURCE** TRIBUTARY

Spring Bear River

Method of Determination: DRG / topographic map.

Change in Source: ☐ Yes ☒ No

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: 13-7892 is a statutory claim for Stockwater, Irrigation and Domestic uses on the property. Water is pumped out of a stream and into storage tanks. Right 13-7892 is for the old farmstead which is 3 homes and 3 acres of irrigation. This right 13-7883 is for a new home that was built on the property.

2. Other water rights with the same point of diversion: Overlap? ☒ Yes ☐ No

Water Right No.	Source	Purpose of Use	Basis
13-7892	Spring	Stockwater, Irrigation & Domestic	Statutory Claim

Comments: 13-7892 is a statutory claim for Stockwater, Irrigation and Domestic uses on the property. Water is pumped out of a stream and into storage tanks. Right 13-7892 is for the old farmstead which is 3 homes and 3 acres of irrigation. This right 13-7883 is for a new home that was built on the property.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring		SW	SE	NW	36	15S	38E	B.M.	Franklin
Spring		SW	NE	SW	36	15S	38E	B.M.	Franklin
								B.M.	

Method of Determination: DRG map of diversions are outlined by applicant. PLS data confirmed the legal descriptions are accurate.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No2. **PLACE OF USE:** 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	
15S	38E	36												X					

Method of Determination: DRG map of use is outlined by applicant. PLS data confirmed the legal descriptions are accurate.

Change in POU? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No☐ 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
Unk	Unk	0.5	Unk	Unk	Unk

*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: Not applicable in an in-office field exam.**E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method:

See theoretical calculation sheet.

Measurement = 0.04 cfs**Permit allowed = 0.04 cfs****License recommend for 0.04 cfs.**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Conditions state a limit of 13,000 gallons of water per day so the annual volume of 0.6 af for in-house use only is not issued in this case.

G. PURPOSE OF USE

Irrigation ☐ Yes ☒ No # Stock Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination:

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

Permit 13-7883 authorized the use of 0.04 cfs from springs for domestic use. The proof of beneficial use was submitted to supply water to a new home on the property. For the in-office field exam, property ownership and location were verified with ArcMap data. With all of the information provided in the application and what was found through aerial photography, an in-office field exam is acceptable.

13-7892 is an existing water right for stockwater, irrigation, and domestic use on the property. Water for this right and 13-7883 share the same POD. Water right 13-2113 is a licensed right for domestic & irrigation us from Weston Slough, which appears to be an unnamed stream. The field report for 13-2113 doesn't mention domestic use. The permit depositions do state there is irrigation and stockwater. Therefore, it is assumed the domestic use for 13-2113 should actually be stockwater.

Water rights 13-946B are irrigation rights that would not affect this in-house use only domestic right. Water right 13-7883 is statutory domestic right for the old farmhouse. This permit is for the new home. So there is not any direct overlap.

A letter was sent to Eric Nielsen via email requesting details to the water diversion system in place. Mr. Nielsen replied with a map identifying water tanks and lines. Flow rates were calculated from this information and information in the beneficial use report. Given what was submitted, the water system may supply 0.04 cfs to be diverted.

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>
Domestic	01/01-12/31	0.04	
	<u>Totals</u>	0.04 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

Other: < >

J. AUTHENTICATION

Field Examiner's Name Paul H. Wiley Date 03/13/14

Reviewer Daniel H. M. M. Date 3-17-14

State of Idaho
Department of Water Resources
Field Exam Map
13-7883

This map depicts the DOMESTIC 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 0.05 0.1 0.2 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 13-7833
 Reviewer: Patrick Kelly
 Date of Review: 3/10/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	0.5	0.5	0.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	60	60	60
DISCHARGE PRESSURE	8	10	12
RATE OF FLOW (cfs)	0.04	0.04	0.04 0.04

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:

Used 8-12 pressure using standard open discharge. Average flow rate is 0.04 and will be recommended for license. This is what was applied for and common rate for domestic use.

Process	Basin Sequence	Draft	Owner	Source	POD/POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	13-2113	N	NASH, DAVID; NASH, ISAACH	WESTON SLOUGH	POU									11.0	10.0		30.0					51
Water Right	13-2154A	N	BODILY, TROY	UNNAMED STREAM	POD								X									0
Water Right	13-2154A	N	BODILY, TROY	UNNAMED STREAM	POU					11.0	6.5											17.5
Water Right	13-2289	N	TWIN LAKES CANAL CO	MINK CREEK	POU	40.0	40.0	40.0	38.0	36.0			40.0	40.0	40.0	32.0	39.0	40.0	40.0	40.0	40.0	505
Water Right	13-2292A	N	BODILY, TROY	UNNAMED STREAM	POD								X									0
Water Right	13-2292A	N	BODILY, TROY	UNNAMED STREAM	POU						11.0	6.5										17.5
Water Right	13-2292A	N	BODILY, TROY	UNNAMED STREAM	POU						X	X										0
Water Right	13-7481	N	TWIN LAKES CANAL CO	DEEP CREEK	POU	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	640
Water Permit	13-7883	N	NIELSEN, ERIC W. NIELSEN, REXANNE	SPRING	POD								X	X								0
Water Permit	13-7883	N	W. NIELSEN, REXANNE	SPRING	POU												X					0
Water Right	13-7892	N	WB NIELSEN LLC	SPRINGS	POD								X	X								0
Water Right	13-7892	N	WB NIELSEN LLC	SPRINGS	POU									1.5			1.5					3
Water Right	13-7892	N	WB NIELSEN LLC	SPRINGS	POU									X	X		X					0
Water Right	13-896B	N	TWIN LAKES CANAL CO	MINK CREEK	POU																	0
Water Right	13-901	N	TWIN LAKES CANAL CO	MINK CREEK	POU																	0
Water Right	13-946B	N	TWIN LAKES CANAL CO	DEEP CREEK	POU	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	640

OLD NR ?
overlap.

2024 NR ?
overlap.