

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

A. GENERAL INFORMATIONPermit No: 95-13148

Exam Date: 10/22/15

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- X 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: Charles S Husband
Owner of Record Correct? X Y N
Address of Record Correct? X Y N
If No: Address

According to Bonner County, the owner of the taxlot associated with this permit is Husband Trust; Husband, S Trustee.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C100954

4. **SOURCE** **TRIBUTARY**

Unnamed Stream

Kelso Lake

Method of Determination: GIS, phone conversation with Mr. Charles Husband, and information submitted in a letter dated 10/26/2015 from Mr. Husband

Change in Source: Y X N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Yes - Overlap

Water Right No.	Source	Purpose of Use	Basis
95-9879	Unnamed stream	Domestic	License

Comments: Water right 95-9879 is a domestic right that was licensed in 1983 for 0.04 with 0.6 AF at the same Place of Use (POU). The original field exam for 95-9879 stated that no irrigation was found so volume was limited to 0.6 AF. There are no conditions on the license of 95-9879 limiting use to indoor use only however because of the lower volume limit along with the field exam notes, it can be assumed use is for internal use only. The source of 95-9879 is an unnamed stream tributary to Hoodoo Creek. I was unable to locate Hoodoo Creek. A phone conversation along with a letter from Mr. Husband, confirms that the source of water right 95-9879 should be an unnamed stream tributary to Kelso Lake, not Hoodoo Creek. Water right 95-9879 was claimed in 2010 by Charles Steven Husband and the domestic right should be limited to indoor domestic use as this permit covers all outdoor irrigation.

Water right 95-9858 is another water right in the same QQ that lists Unnamed Stream as the source but that property is to the south of this permit and does not overlap the POU. There are six other water rights in the QQ with a source from groundwater, two water rights that list Kelso Lake as a source, and two adjudication recommendations in the same QQ, but none of these are overlaps with the Place of Use.

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

Water Right No.	Source	Purpose of Use	Basis
95-9879	Unnamed Stream	Domestic	License

Comments: On 10-22-2015, I called Mr. Charles Husband to clarify the exact location of the Point of Diversion (POD) for this permit and its relationship to the POD of water right 95-9879. Mr. Husband stated that the domestic water associated with water right 95-9879 and the water used under permit 95-13148 are two separate systems coming from two different PODs on the same unnamed stream on his property. He said the two PODs are separated by approximately 15'. A map was sent to Mr. Husband to mark the location of the POD associated with this permit as it appears it was originally placed in the wrong location and QQ. Both POD locations are on Mr. Husband's property.

No other water rights directly overlap the POD associated with this permit.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Unnamed stream	2		NW	SE	21	54N	3W	B.M.	Bonner
								B.M.	
								B.M.	

Method of Determination: GIS and map from permit holder

Change in POD? ☐ YES ☐ Amendment Required? ☐ YES ☐**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	
54N	3W	21														3.6			3.6
		Lot #														L2			
Total Acres =																			3.6

PLACE OF USE: Use: Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
54N	3W	21														x			
		Lot #														L2			
Total Acres =																			

Method of Determination: GIS and aerial photography

Change in POU? ☒ X ☐ N Amendment Required? ☒ 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
		1.5 HP pump per permit holder			

*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
N/A						

2. Measurements: In house field exam, no measurement taken, see theoretical sheet

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Theoretical Calculation = 0.13 cfs

Permit allowed = 0.12 cfs

$$5 \text{ acres (irrigation)} \times 0.02 \text{ cfs} = 0.10 \text{ cfs} + 0.02 \text{ cfs (stockwater)} = 0.12 \text{ cfs}$$

License recommend for 0.12 cfs

$$3.6 \text{ acres (irrigation)} \times 0.03 \text{ cfs} = 0.10 \text{ cfs} + 0.02 \text{ cfs (stockwater)} = 0.12 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{3.6 \text{ acres}} \times \underline{3.0} = \underline{10.8 \text{ AF}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{0.03 \text{ cfs}} \times \underline{214} \times \underline{1.9835} = \underline{12.7 \text{ AF}}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \underline{10.8 \text{ AF}}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation X Y N # Stock 5 Domestic # of Homes

Other: < >

Change in Purpose of Use? Y X N

Method of Determination: Aerial photo shows irrigation and permit holder stated 5 head of stock on Proof of Beneficial Use.

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

Water right 95-13148 qualifies for an in-office exam as the amount of irrigation is less than 5 acres. There is an overlap with water right 95-9879 and a phone conversation with Mr. Husband on 10/22/2015 clarified some of the details of the two overlapping rights and systems. The phone call also clarified the exact location of the two water right PODs which in return is the reason for the amendment requiring a change in QQ for the POD for this license. The two PODs for both water rights are on Mr. Husband's property separated by approximately 15' apart.

Water Right 95-9879 has been claimed by Mr. Husband in the Northern Idaho Adjudication for the domestic use at the same place of use as this permit. See comments under Overlap review. Adjudication staff has been notified regarding the overlap with this claim and will reference this report during the recommendation process. Mr. Husband stated in a letter that the unnamed stream that is the source for water right 95-9879 should be a tributary to Kelso Lake, not Hoodoo Creek. Water right 95-9879 should also be limited to indoor use only as all the irrigation uses at this property will be included in the license of 95-13148.

NARRATIVE/REMARKS/COMMENTS (cont.)

The standard season of use for irrigation at this property should be 4/1 to 10/31. The permit was issued a longer season of use from 03/15 to 11/15 and these permit dates should be carried over to licensing.

Conditions- Condition X02 should be removed at license per condition instructions. Condition 004 was on the permit and the application for amendment however it should be removed as Mr. Husband submitted a letter and a map stating the location of the Point of Diversion is contained within his property boundaries. Conditions R66 and X15 should be carried over to licensing.

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	0.10 CFS	
Stockwater	01/01 to 12/31	0.02 CFS	
	<u>Totals:</u>	0.12 CFS	

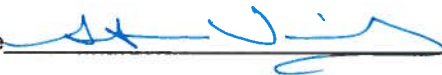
2. Recommended Amendments

☒ 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 Steven Visosky, Water Resource Agent

Field Examiner's Name  Date 11/03/2015

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-13148
 Reviewer: Steven Visosky
 Date of Review: 10/26/2015

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
1.5
0
5
20
0.18
81

Well #2
1.5
0
5
30
0.12
56

Well #3
1.5
0
5
40
0.09
43

0.13
59.79

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:

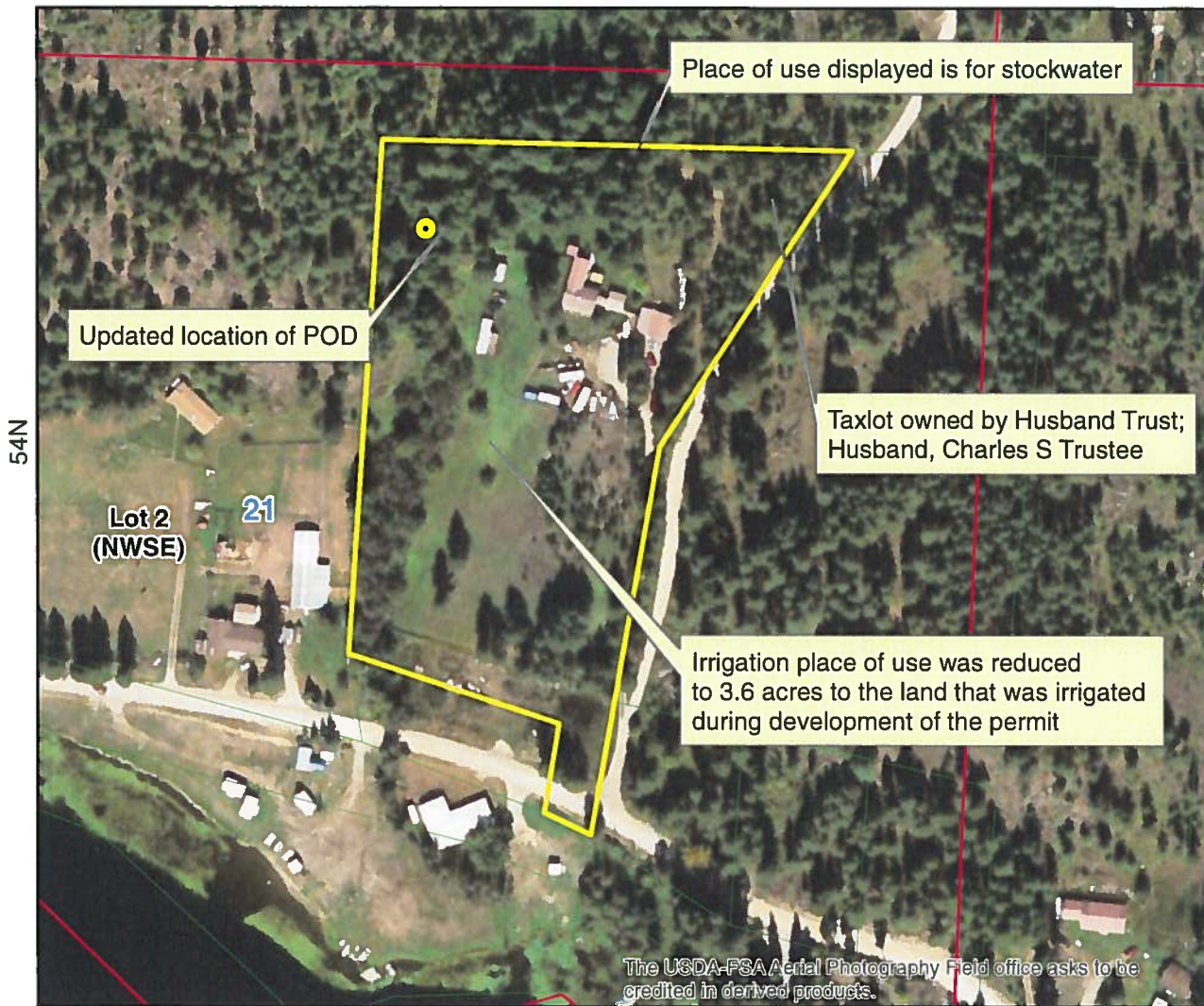
The permit holder stated in a phone conversation on 10-26-15 he was using a 1.5 HP pump for the irrigation and stockwater system for 95-13148. The POD for this system is located uphill of the property and it can be assumed that an increase in head would be experienced as the water flows downhill into the irrigation system. The permit holder states that currently the stockwater is being supplied from a faucet off of the irrigation system. Using the discharge pressures above along with the assumption that there may be some increase in pressure while pumping downhill, the applicant's 1.5 HP could pump the combined rate of 0.12 listed on the permit.

Attachment for in-office field exam report

95-13148

Map created by Steven Visosky
November 3, 2015

03W



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

0 0.025 0.05 0.1 Miles



Process	Basin Sequen	Dra ft	Owner	Source	POD/ POU	SWN E	NWS E	Total Acres	License review comments
Adjudication Recommendation	95- 16290		ABEL, JANICE	GROUND WATER	POD		X	0	Domestic south east of permit
Adjudication Recommendation	95- 16290		ABEL, JANICE	GROUND WATER	POU		X	0	Domestic south east of permit
Adjudication Recommendation	95-9619		JOSUND, GLENN; JOSUND, SANDRA	GROUND WATER	POD			0	West of permit
Adjudication Recommendation	95-9619		JOSUND, GLENN; JOSUND, SANDRA	GROUND WATER	POU		0.5	3	West of permit
Water Permit	95- 13148	N	HUSBAND, CHARLES S	UNNAMED STREAM	POU		5.0	5	PERMIT UNDER REVIEW
Water Permit	95- 13148	N	HUSBAND, CHARLES S	UNNAMED STREAM	POU		X	0	PERMIT UNDER REVIEW
Water Right	95- 16431	N	ALEXANDER, LYNN	KELSO LAKE	POD		X	0	South east of permit
Water Right	95- 16431	N	ALEXANDER, LYNN	KELSO LAKE	POU		X	0	South east of permit
Water Right	95-9586	N	JONES, RONALD E	GROUND WATER	POD		X	0	West of permit
Water Right	95-9586	N	JONES, RONALD E	GROUND WATER	POU		X	0	West of permit
Water Right	95-9589	N	CONLEY, ROBERT E	GROUND WATER	POD		X	0	South east of permit
Water Right	95-9589	N	CONLEY, ROBERT E	GROUND WATER	POU		X	0	South east of permit
Water Right	95-9590	N	CARTWRIGHT, AUDREY T	GROUND WATER	POD		X	0	Domestic from ground water does not appear to be overlap
Water Right	95-9590	N	CARTWRIGHT, AUDREY T	GROUND WATER	POU		X	0	Domestic from ground water does not appear to be overlap
Water Right	95-9764	N	SHAW, GERALD A; SHAW, RUTH D	GROUND WATER	POD		X	0	Domestic from ground water does not appear to be overlap
Water Right	95-9764	N	SHAW, GERALD A; SHAW, RUTH D	GROUND WATER	POU		X	0	Domestic from ground water does not appear to be overlap
Water Right	95-9822	N	EAGAN, JAMES E	GROUND WATER	POD			0	West of permit
Water Right	95-9822	N	EAGAN, JAMES E	GROUND WATER	POU			0	West of permit

Water Right	95-9858	N	VICTORINO, JAMES E; VICTORINO, VIRGINIA R	UNNAMED STREAM	POD	X	0	South of permit
Water Right	95-9858	N	VICTORINO, JAMES E; VICTORINO, VIRGINIA R	UNNAMED STREAM	POU	1.0	1	South of permit
Water Right	95-9859	N	VICTORINO, JAMES E; VICTORINO, VIRGINIA R	GROUND WATER	POD	X	0	Suth of permit
Water Right	95-9859	N	VICTORINO, JAMES E; VICTORINO, VIRGINIA R	GROUND WATER	POU	X	0	South of permit
Water Right	95-9879	N	ROWDER, BRYAN	UNNAMED STREAM	POD	X	0	Overlap with property but different use
Water Right	95-9879	N	ROWDER, BRYAN	UNNAMED STREAM	POU	X	0	Overlap with property but different use
Water Right	95-9896	N	ASHBURN, DONNA; ASHBURN, ROBERT	KELSO LAKE	POD		0	West of permit
Water Right	95-9896	N	ASHBURN, DONNA; ASHBURN, ROBERT	KELSO LAKE	POU		0	West of permit