

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

A. GENERAL INFORMATION

Permit No: 95-16945

Exam Date: 11/23/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- a. ☒ **Irrigation of 5 acres or less**
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. ☒ **Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less**
- d. Other < >
2. Current Owner: Name: John T Yocum, Cheryl Yocum, Dale Stollar, Chris Fieguth
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: NO31610

4. SOURCE**TRIBUTARY**

Ground water

Method of Determination: Applicant information / well log / aerial photography

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: There are no other water rights that overlap the Place of Use of this permit. Water right 95-11552 owned by Jerome Balavage is a beneficial domestic use claim that has been recommendation and is located to the north of this permit in the same QQ.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights that overlap the Point of Diversion associated with this permit. Water right 95-11552 owned by Jerome Balavage is a beneficial domestic use claim that has been recommendation and the point of diversion for 95-11552 is located to the north of this permit in the same QQ.

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

Source	Govt. Lot	¼	¼	¼	Sec.	TWP	RGE		County
Ground water			SE	NE	6	53N	03W	B.M	Kootenai

Method of Determination: Information on the application, well drillers report, aerial photography, and GIS. The legal description in the permit is validated by PLS.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) 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	
53N	03W	6			0.7	0.8													1.5

Method of Determination: Application information, aerial photography, and GIS

Change in POU? ☒ Yes ☐ NoAmendment Required? ☒ Yes ☐ No**LOCATION OF PLACE(S) 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	
53 N	03W	6			X	X													

Method of Determination: Application information, aerial photography, and GIS.

Change in POU? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No**LOCATION OF PLACE(S) 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	
53N	03W	6			X	X													

Method of Determination: Application information, aerial photography, and GIS.

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

- 3 ☐ 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
Well Tag D0045188					

D. FLOW MEASUREMENTS

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

2. Measurements: In-office field exam. No measurements taken

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached**Irrigation Flow**

Calculated standard = 0.05 cfs

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation of up to 5 acres is acceptable. 1.5 acres x (0.03 cfs) = 0.05 cfs

Theoretical pump flow = 0.05 cfs

Permit allowed = 0.05 cfs

License recommended for irrigation = 0.05 cfs.

Domestic Flow

Standard = 0.08 cfs (According to processing memo #22, the maximum instantaneous water requirements for domestic use for 3 homes is 0.08)

Theoretical pump flow = 0.05 cfs

Permit allowed = 0.05 cfs

License recommendation for domestic = 0.05 cfs

Stockwater Flow

Standard = 0.02 cfs (According to processing memo #3, the rate associated with 35 head of stock is 0.02 cfs)

Permit = 0.03 cfs

License recommendation for stockwater = 0.03 cfs

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 3.0 = 4.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 214 \times 1.9835 = 21.2 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.5 \text{ af}$$

Volume Calculations for Other Uses: Domestic

This is a domestic use. According to processing memo #22, domestic use for in-house only can have up to 0.6 acre feet per home. 0.6 acre feet x 3 homes = 1.8 AF. I am recommending 1.8 AF per year for domestic

Volume Calculations for Other Uses: Stockwater

According to application processing memo #3, 12 gallons per day should be allocated per head of livestock. The permit holder stated there were 35 head of stock associated with this permit. 35 head x 12 GPD x 365 days = 153,300 gallons per year = .47 AF. I am recommending 0.5 AF per year for stockwater.

G. PURPOSE OF USE

Irrigation ☒ Yes ☐ No # Stock 35 head Domestic # of Homes 3 homes

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

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

H. NARRATIVE/REMARKS/COMMENTS

Permit 95-16945 qualifies for an in-office review as the diversion rate is below 0.24 cfs and the irrigation is under 5 acres. The three taxlots the permit overlays is owned by three of the permit holders (each lot is owned by a separate owner) with the exception of Cheryl R Yocum (John Yocum is the owner of one of the lots). The name separator for the four permit holders is 'or'.

An amendment is required as the amount of irrigation required in the SENE has increased from 0.5 acres to 0.8 acres. The total amount of irrigation to be licensed is 1.5 acres and the original amount on the permit was 1.5 acres.

No direct overlaps with the Place of Use or Point of Diversion for this permit.

Conditions- 046 and X02 should be removed at licensing per condition suggestion. Condition 132, R66,174, 01R, and 004 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>
Domestic	01/01 to 12/31	0.05 cfs	1.8 AF
Irrigation	04/01 to 10/31	0.05 cfs	4.5 AF
Stockwater	01/01 to 12/31	<u>0.03 cfs</u>	<u>0.5 AF</u>
Total Diversion		0.05 cfs	6.8 AF

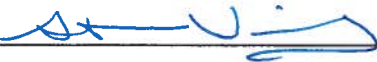
2. Recommended Amendments

☐ 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 ☐ Other

Other: < >

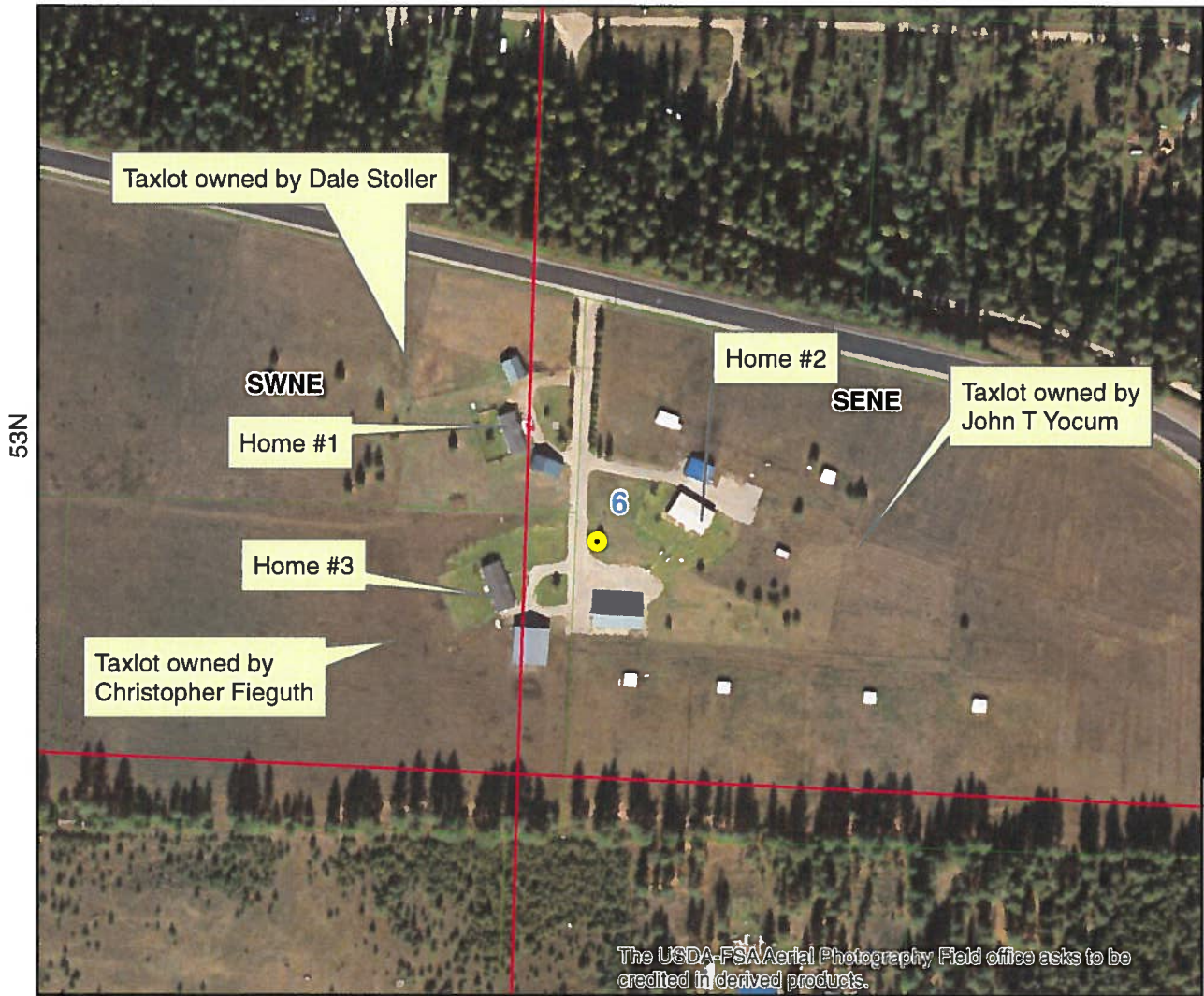
I. AUTHENTICATION – Steven Visosky, Water Resource Agent

Field Examiner's Name  Date 11/23/2015

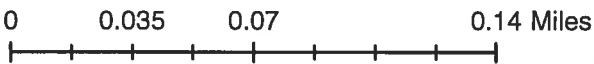
Reviewer _____ Date _____

Attachment to in-office field exam
95-16945

Map created by Steven Visosky
11/23/15
03W



- Point of Diversion
- ▭ Townships
- ▭ PLS Sections
- ▭ Taxlots
- ▭ Quarter Quarters



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-16945
 Reviewer: Steven Visosky
 Date of Review: 11/23/2015

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
3
0
320
40
0.04
20

Well #2
5
0
320
40
0.07
34

Well #3
7.5
0
320
40
0.11
50

0.08
34.64

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:

Information from the well drillers report stated the static water level was 310' below ground. Using the assumption that the pump is 10' below this level, a pumping level of 320' has been used. In order to obtain the 0.05 cfs rate associated with the permit, a 5 HP pump would be needed for the system. A 5HP pump used on a system for three domestic homes fits within an acceptable range of a standard size pump.

Process	Basin Sequence	Owner	Source	POD/POU	SW NE	SE NE	Total Acres	License review comments
Adjudication Claim	95-10406	SMITH, IRWIN C	GROUND WATER	POD	X		0	Domestic Claim from 1997 on land associated with this permit however the name on the claim does not match the taxlot associated with the Claim.
Adjudication Claim	95-10406	SMITH, IRWIN C	GROUND WATER	POU	X		0	Domestic Claim from 1997 on land associated with this permit however the name on the claim does not match the taxlot associated with the Claim.
Adjudication Claim	95-11552	BALAVAGE, JEROME	GROUND WATER	POD	X		0	Beneficial Use Claim for domestic to the north of this permit
Adjudication Claim	95-11552	BALAVAGE, JEROME	GROUND WATER	POU	X		0	Beneficial Use Claim for domestic to the north of this permit
Adjudication Recommendation	95-11552	BALAVAGE, JEROME	GROUND WATER	POD	X		0	Beneficial Use Claim for domestic to the north of this permit
Adjudication Recommendation	95-11552	BALAVAGE, JEROME	GROUND WATER	POU	X		0	Beneficial Use Claim for domestic to the north of this permit
Water Permit	95-16945	FIEGUTH, CHRIS; STOLLAR, DALE; YOCUM, CHERYL R; YOCUM, JOHN T	GROUND WATER	POD		X	0	Permit under review
Water Permit	95-16945	FIEGUTH, CHRIS; STOLLAR, DALE; YOCUM, CHERYL R; YOCUM, JOHN T	GROUND WATER	POU	1.0	0.5	1.5	Permit under review
Water Permit	95-16945	FIEGUTH, CHRIS; STOLLAR, DALE; YOCUM, CHERYL R; YOCUM, JOHN T	GROUND WATER	POU	X	X	0	Permit under review