

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

A. GENERAL INFORMATIONPermit No: 63-32419

Exam Date: 11/16/2017

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

A change of ownership form was received on February 22, 2011. This change of ownership form could not be processed, since the water right was a permit, and Mr. Smedick could not be reached. The change of ownership will be processed at the time the license is issued. The current owners of the property are Steve and Laurie Coburn.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C0

4. **SOURCE** TRIBUTARY

Wastewater

Sand Hollow Creek

Method of Determination: GIS and Tax Parcel DataChange 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

Comments: This property is within the borders of the Black Canyon Irrigation District. However, the file states that the canal shares were sold off on the property before the permit holder and the new property owners acquired the property.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no water rights will a point of diversion in this 40 acre tract.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Waste Ditch Diversion			SW	NW	34	6N	3W	B.M.	GEM
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Parcel data.Change in POD? X N Amendment Required? 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	
6N	3W	34							4.2										4.2
		Lot #																	
Total Acres =																			4.2

Method of Determination: GIS and Tax Parcel DataChange 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.

 X 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
Waster Ditch Pump	Unknown				

*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
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONSYES Additional Computation Sheets

Attached

Measured Method:

There was very little information in the file describing the pumping system for this permit. I used the standard irrigation requirements allowed for the irrigation of property less than 5 acres of 0.03 cfs per acre allowed in Processing Administrative Memorandum #17.

Acre Limits = 4.2 acres X 0.03 cfs per acre = 0.13 cfs

Permit allowed = 0.15 cfs

I am recommending a diversion rate of 0.13 cfs, since maximum rate per acre doesn't exceed the permitted amounts.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.2 \text{ acres} \times 4.5 = 18.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \text{ cfs} \times 260 \times 1.9835 = 67.0 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 18.9 \text{ af}$$

Please Note: This is a surface water right that feeds a natural stream and not associated with a pond or lake, so no volume will be included on the water right license.

2. Volume Calculations for Other Uses:

N/A

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes

Other: < >

Change in Purpose of Use? Y N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies as an in-house exam. The only issues requiring clarification with this permit is the ownership, the source of water, and the place of use.

The permit was originally filed by Brendan M. Smedick. The property was then taken over by a bank and sold to Laurie and Steve Coburn. Mr. and Ms. Coburn filed a change of ownership that couldn't be processed until the permit was licensed. The license will be issued in the Coburns names.

The water source for this project is described as wastewater. It appears that the wastewater associated with this permit is no longer in the control of the Black Canyon Irrigation District by the time it reaches the permit's point of diversion. From aerial photography, it looks like this is a ditch used by Black Canyon to regulate its canal system to avoid overtopping of the canal, and not used as a delivery ditch. The original permit holder contacted Black Canyon and received permission to use this water during the permitting process, so I feel the source description is accurate.

There appears to be 2 pastures associated with this permit. The pasture north of the ditch and the pasture south of the ditch. It appears as though they only have enough water to irrigate one pasture at a time, and during the summer months it appears as they only get enough wastewater to irrigate the south pasture. This would make sense with this type of wastewater right, since the water in the waste ditch would be dependent on when there was too much water in the canal. Generally, the canals only have excess water in the spring and fall, so it would make sense that during the summer months, only the south pasture is getting irrigated.

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	03/01 to 11/15	0.15 CFS	
<u>Totals:</u>		0.15 CFS	

Please Note: This is a surface water right, so no volume will be included on the water right license.

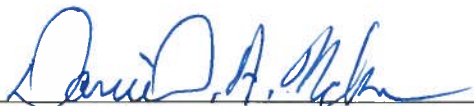
2. Recommended Amendments

☐ 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 – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name  Date 11-17-17

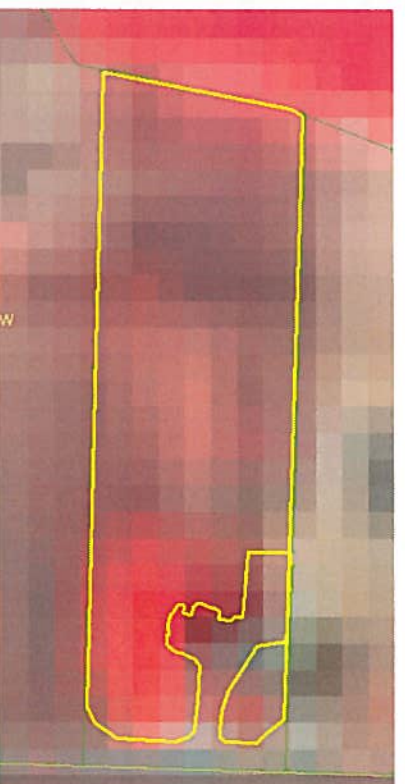
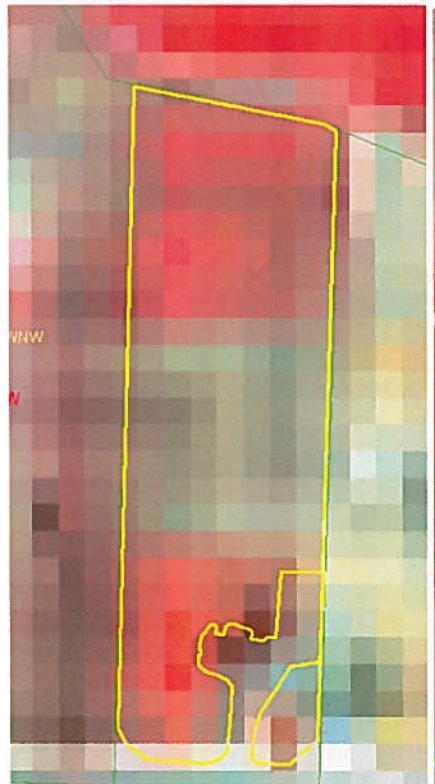
Reviewer _____ Date _____

Permit 63-32419 Field Exam Map



The aerial image on the right is a 2017 Google Earth image of the property. The Google Earth image suggests that the field north of the ditch was harrowed or worked, but it doesn't suggest irrigation.

The image to the right is the Department's 2013 imagery, which is very similar to the 2015 imagery. The field south of the ditch was irrigated, but the field north of the ditch doesn't appear to be irrigated.



These two images are sentinel imagery. The 5/27/2017 imagery is shown on the left. It appears from this image that irrigation did occur. The sentinel imagery shown on the right is the sentinel imagery from 10/14/2017. The sentinel imagery between these two dates show very little if any irrigation. However, these two images suggest that the pasture below the ditch was not irrigated and the pasture north of the ditch was irrigated. Therefore, it appears as though 4.2 acres were irrigated within this tax parcel.