

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

A. GENERAL INFORMATIONPermit No: 63-33604

Exam Date: 5/4/2017

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: Shawn and/or Nancy Rayne
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

Tax lot data shows Nancy A. and Donald S. Rayne as the owners of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C103278

4. SOURCE TRIBUTARY

Ground Water

Method of Determination: Well Driller's Report, 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: Water right 63-33835 is in the same 40 acre tract, but it is for the neighbor's property to the west of this parcel.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: Water right 63-33835 is in the same 40 acre tract, but it is for the neighbor's property to the west of this parcel.**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well			SE	SE	36	6N	3W	B.M.	GEM
								B.M.	
								B.M.	

Method of Determination: Well Driller's Report, GIS and Tax Lot data.Change in POD? X N Amendment Required? X N

2. **PLACE OF USE:** Use: Irrigation (AC) and Domestic (D)

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	36																3.3	3.3
																		D	
Total Acres =																			3.3

Method of Determination: GIS, Tax Lot Data and Google EarthChange 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
Well 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 CALCULATIONS** YES Additional Computation Sheets

Attached

Measured Method:

There was no information in the file describing the pumping system for this permit. Therefore, 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. I used the standard domestic use found in Processing Administrative Memorandum #22.

Acre Limits = 3.3 acres X 0.03 cfs per acre = 0.10 cfs**Domestic Use = 0.04 cfs****Permit allowed = 0.14 cfs for Irrigation****0.02 cfs for Domestic****0.16 cfs total**

I am recommending a diversion rate of 0.10 cfs for the irrigation use, since the irrigation developed was less than what was permitted. I am recommending a diversion rate of 0.02 cfs for domestic use as approved by the permit. The total diversion rate for this permit will be limited to 0.12 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.3 \text{ acres} \times 4.5 = 14.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \text{ cfs} \times 260 \times 1.9835 = 51.6 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 14.8 \text{ af}$$

2. Volume Calculations for Other Uses:

Per Processing Administrative Memorandum #22, domestic use for in-house use only should be limited to 0.6 af.

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes 1

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 is a domestic and irrigation right. The irrigation use was confirmed using the Sentinel Satellite Imagery and Google Earth imagery. The 2015 imagery available to the Department doesn't show all of the irrigation found in the later satellite and Google Earth imagery.

The well driller's report shows that they have complied with the water bearing zone requirements in the conditions of the permit. This property is not within the borders of the basin 63 restricted area, so the water bearing condition can be removed at licensing.

Conditions 1 (R69), 4 (132) 7 (X59) and 8 (X60) will be carried forward to licensing. Conditions 2 (26A), 5 (004) and 6 will not be carried forward to licensing as is standard. Condition 3 (121) will be changed to condition 103 as is standard. Condition 5 (004) is not needed, since the well, place of use, and distribution system are on a single tax parcel owned by the permit holder.

Have conditions of permit approval been met? X 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	0.10 CFS	14.9 AF
Domestic	01/01 to 12/31	0.02 CFS	0.6 AF
<u>Totals:</u>		0.12 CFS	15.5 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 – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name



Date

5-4-17

Reviewer

Date

NWSE

NESE

NWSW 3

36

06N03W

Yellow Dot --
Point of Diversion

Red Border -- Domestic
Place of Use

31

06N02W

SWSE

SESE

Yellow Border -- Irrigation
Place of Use -- 3.3 acres

SWSW 4

Permit 63-33604

Field exam map.
2015 Aerial Imagery.

NWNE 2

1

NENE 1

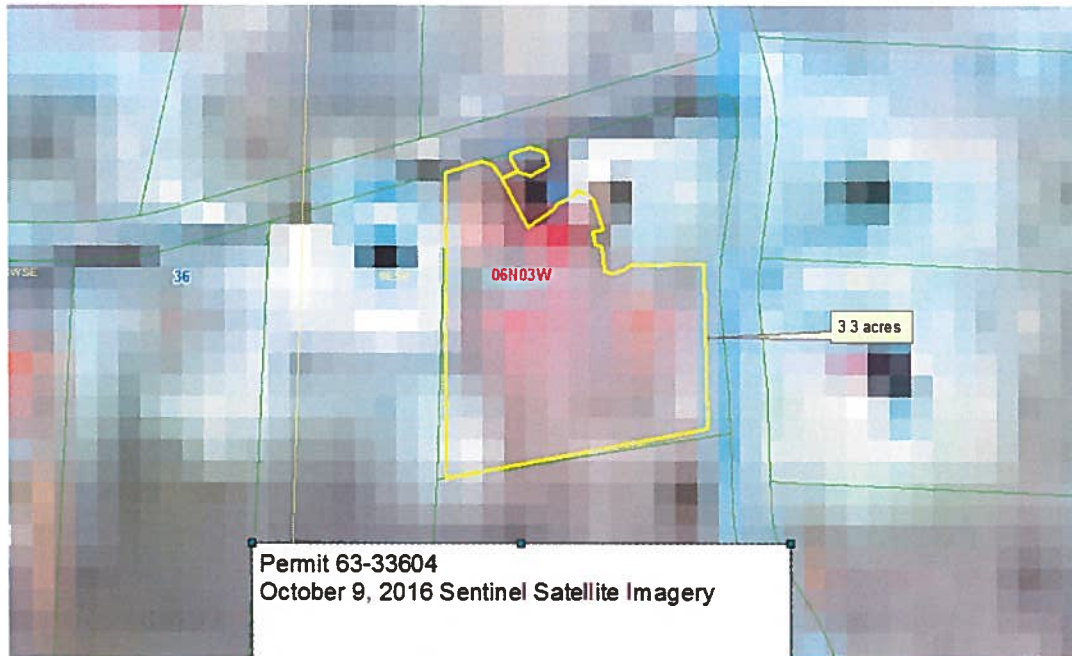
05N03W

6

05N02W

NWNW 4

Permit 63-33604 Field Exam Attachment



The above 10/9/2016 satellite image shows approximately 3.3 acre being irrigated. The bottom Google Earth 4/1/2016 aerial photo shows very similar irrigation uses. Basically the only irrigated areas are the field south of the home and the yard around the home.

