

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

A. GENERAL INFORMATIONExam Date: 1/31/20241. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N

- a. X 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: Stephen and/or Heather Reed

Owner of Record Correct? NAddress of Record Correct? N

If No Explain: N/A

3. Beneficial Use Fees have been paid: X Y N Receipt No: C117670

4. Source: Tributary:

Groundwater N/A

Method of Determination: GIS and the permit holders Statement of Completion for Proof of Beneficial Use.Change in Source: Y X N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: X No Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: There are no water rights directly overlapping the place of use. There is a stockwater right, 96-4439, adjacent east of the place of use.

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

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: N/A

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			SE	SE	13	56N	02W	B.M.	Bonner
								B.M.	
								B.M.	

Method of Determination: GIS, Tax Parcel Data and Well Log.Change in POD? Y X N Amendment Required? Y X N

2. Place of 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	
56N	02W	13																0.5	0.5
		Lot #																	
Total Acres =																		0.5	

Method of Determination: GIS, Tax Parcel Data, and 2023 Bonner County Aerial Imagery.Change in POU? Y X N Amendment Required? Y X NDelivery 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

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0039639					

*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. Measurement Comments: The permit holder did not provide pump horsepower. Therefore, a diversion rate calculation is not possible.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. According to Administrative Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre, 0.5 acres * 0.03 cfs/acre = 0.015 or 0.02 cfs rounded. The permit authorized a diversion rate of 0.1 cfs. I am recommending a 0.02 cfs diversion rate.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.5 \text{ acres}) \times (3.0 \text{ af/acre}) = 1.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.02 \text{ cfs}) \times (214 \text{ days}) \times (1.9835 \text{ af/day}) = 8.5 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.5 \text{ af}$$

G. PURPOSE OF USE

Irrigation X Y N # Stock N/A Domestic # of Homes N/AChange in Purpose of Use? Y X NMethod of Determination: GIS, Tax Parcel Data, and 2023 Bonner County Aerial Imagery.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 2005. The permit authorized the irrigation of 5 acres. 2023 Bonner County Aerial Imagery indicated and confirmed 0.5 acres of irrigation occurred within the place of use. The Well Log, provided through Department records, indicated the well was sealed from 0-30 ft. Currently the standard set in the IDAPA Well Construction Standards is 38 ft from surface level. However, the required sealing depth prior to 2009 was 18 ft from surface level. According to the Well Log the well associated with this permit was drilled in 2004 and would be in compliance with the IDAPA Well Construction Standards.

Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. The standards set in Administrative Processing Memo #17 were used to determine a diversion rate recommendation. All of the conditions have been met and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.02 cfs diversion rate and 1.5 af diversion volume.

Conditions X59 and X60 should remain on the license. Condition R66 should be changed to X31 because irrigation was confirmed to be less than 1 acre. Condition 046 should be removed because the permit holder complied with the drilling permit requirements of Idaho Code §42-235 and applicable Well Construction Rules of the Department. Condition 004 should be removed because there are no legal access concerns to the point of diversion or place of use. All other conditions should be removed as standard with 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	04/01-10/31	0.02 CFS	1.5 AF
	<u>Totals:</u>	0.02 CFS	1.5 AF

2. Recommended Amendments:

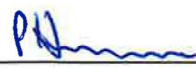
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

J. AUTHENTICATION

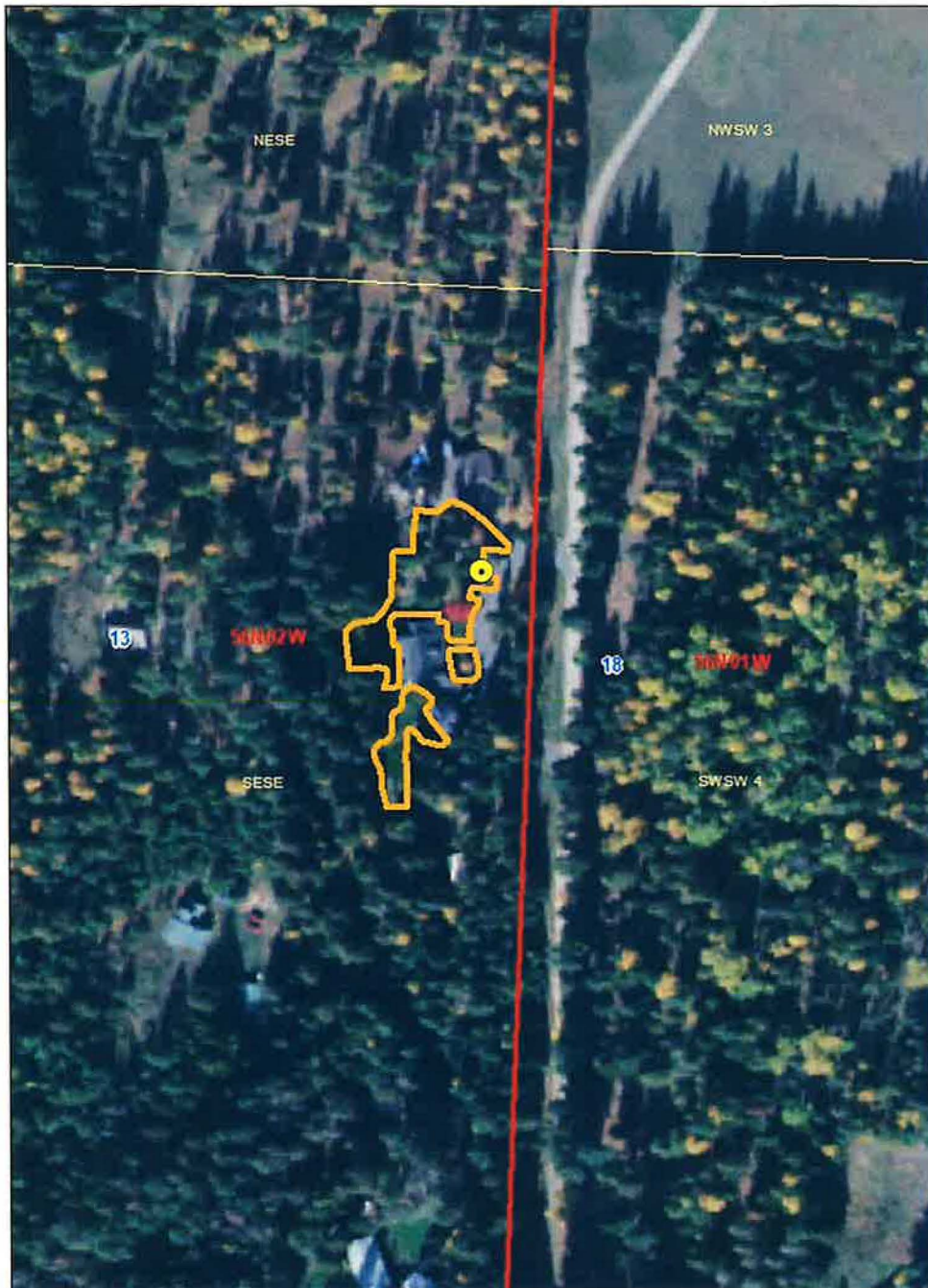
Field Examiner: **Skyler Cheever – Water Resource Agent**

Field Examiner's  Date 1/31/2024

Reviewer  Date 4/19/24

Field Exam Map

Map showing the authorized point of diversion (yellow point) and irrigated place of use (orange outline).



2023 Bonner County Aerial Imagery

Imagery indicated and confirmed 0.5 acres of irrigation occurred within the development period.

96-13184 Irrigation Map



1/30/2024

Road Centerlines

- Primary
- Secondary
- Local; Ramp

Parcels

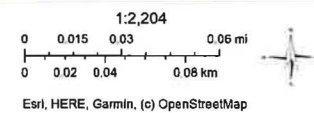
- World Boundaries and Places
- World Imagery
- Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

60cm Resolution Metadata



WELL DRILLER'S REPORT

1. WELL TAG NO. D 0039639
 DRILLING PERMIT NO. 826197
 Water Right or Injection Well No. _____

2. OWNER:
 Name Bert & Karen Wallis
 Address 1651 Sagie Rd
 City Sagle State Id. Zip 83860

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 56 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 13 1/4 SE 1/4 SE 1/4
 Gov't Lot _____ County Bonner
 Lat: _____ Long: _____
 Address of Well Site Callen Crabb Rd
 City Sagle
 (Give at least name of road + Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>30</u>	<u>250</u>	<u>Overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 205

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6</u>	<u>4</u>	<u>205</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

180 ft. below ground Artesian pressure _____ lb.

Depth flow encountered 195 ft. Describe access port or control devices: _____

Well Seal

56 N 2W 13

Office Use Only			
Well ID No.	_____		
Inspected by	_____		
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat: _____	Long: _____	_____	

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>12</u>	<u>20</u>	<u>205</u>	<u>5hr</u>

Water Temp. 42 Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 195

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
	0	1	Top Soil		X
	1	6	clay		Y
	6	20	clay Gravel		Y
	20	30	Blue clay Gravel		X
	30	170	Blue clay Gravel		X
	170	195	Brown clay Gravel		Y
	195	205	Gravel	X	

RECEIVED

DEC 08 2004

IDWR/North

Completed Depth 205 (Measurable)

Date: Started 11-17-04 Completed 11-22-04

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Bob Pitts & Sons Firm No. 235

Principal Driller Dale Pitts Date 11-23-04

Driller or Operator II _____ Date _____

Operator I Troy Coey Date 11-23-04

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.