

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

A. GENERAL INFORMATIONExam Date: 1/29/20241. 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: Keith and Alison Horn

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: C117231

4. Source: Tributary:
Groundwater N/A

Method of Determination: GIS, Tax Parcel Data, and the Well Log.Change 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
63-18700 & 63-123E	Boise River	Irrigation	Decree
63-12448 & 63-11413	Groundwater	Irrigation	Decree

Comments: Water rights 63-18700, 63-123E, 63-12448, and 63-11413 overlap the proposed place of use. However, water rights 63-18700 and 63-123E divert from a different source and would therefore not overlap. Water rights 63-12448 and 63-11413 both authorize municipal use. Therefore, a combined limit condition with this permit is not necessary.

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			NW	NE	32	05N	01E	B.M.	Ada
								B.M.	
								B.M.	

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

2. Place of Use: Irrigation, Domestic 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	
				3, D, S															3
		Lot #																	
Total Acres =																			3

Method of Determination: GIS, Tax Parcel Data, and 2023 Google Earth/Street View 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
D0087049					

*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 a 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, 3 acres * 0.03 cfs/acre = 0.09 cfs. According to Administrative Processing Memo #22 the standard diversion rate for a single-family home is 0.04 cfs. The permit authorizes stockwater for 10 mixed livestock. There is currently no standard diversion rate for mixed livestock. The standard diversion rate set in Administrative Processing Memo #3 for range cattle should be used as a substitute. Since the permit authorizes 10 mixed livestock the standard diversion rate is 0.02 cfs. The permit authorized a diversion rate of 0.14 cfs for irrigation, 0.02 cfs for stockwater, and 0.04 cfs for domestic use or 0.20 cfs total. I am recommending a diversion rate of 0.09 cfs for irrigation, 0.02 cfs for stockwater and 0.04 cfs for domestic use or 0.15 cfs total.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (3 \text{ acres}) \times (4.5 \text{ af/acre}) = 13.5 \text{ af.}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.09 \text{ cfs}) \times (260 \text{ days}) \times (1.9835 \text{ af/day}) = 46.4 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 13.5 \text{ af}$$

2. Volume Calculations for Other Uses: This permit authorizes in-house domestic use with 1/2 acre yard irrigation normally authorized under domestic use included within a separate irrigation use. According to Administrative Processing Memo #22 the standard diversion volume for in-house domestic use is 0.6 af. According to Administrative Processing Memo #3 the standard diversion volume per acre for 10 mixed stock is 0.2 af. I am recommending a diversion volume of 13.5 af for irrigation, 0.2 af for stockwater, and 0.6 af for domestic use or 14.3 af total.

G. PURPOSE OF USEIrrigation X Y N # Stock 10 Mixed Stock Domestic # of Homes 1

Other: < >

Change in Purpose of Use? Y X NMethod of Determination: GIS, Tax Parcel Data, and 2023 Google Earth/Street View Imagery.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 2017. The permit authorized stockwater, domestic use, and the irrigation of 4.5 acres. 2023 Google Earth/Street View Imagery confirmed 3 acres of irrigation, domestic and stockwater use occurred within the development period. According to the permit holders Statement of Completion for Proof of Beneficial Use a measuring and lockable device were installed at the point of diversion. Conditions on the permit required the new well to be sealed at the first confining layer below 200 ft, with unperforated casing and, have a water temperature of 85° Fahrenheit or less. According to the well log the well is sealed from 0-215 ft, has an unperforated casing, and had a measured water temperature of 56° Fahrenheit. Therefore, those conditions have been met.

Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. The standards set in Administrative Processing Memos #17, #3, and #22 were used to make a diversion rate and volume recommendation. There is not any standard rate or volume for mixed livestock. Therefore, the standards for range cattle should be used as a substitute. All of the conditions have been met and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.15 cfs diversion rate and 14.3 af diversion volume.

Conditions 01M, R69, 073, 165 and conditions 11 and 12 on the permit should remain on the license. Condition 121 should be changed to 103 as is the standard with licensing. Condition X01 should be changed to 132 because the ½ acres of yard irrigation normally authorized under domestic use is included in a separate irrigation use on the permit. Condition 046 should be removed because the permit holder complied with the well drilling permit requirements in 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 and place of use. Conditions X02 and 26A should be removed as standard with licensing. All other conditions should be removed as standard with licensing.

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	03/01-11/15	0.09 CFS	13.5 AF
Stockwater	01/01-12/31	0.02 CFS	0.2 AF
Domestic	01/01-12/31	0.04 CFS	0.6 AF
	<u>Totals:</u>	0.15 CFS	14.3 AF

2. Recommended Amendments:

 Change P.D. as reflected above Add P.D. as reflected above X None Change P.U. as reflected above Add P.U. as reflected above X None**J. AUTHENTICATION**

Field Examiner's



Date

11/28/2024

Reviewer

Date

Field Exam Map

Map showing the authorized point of diversion (yellow point), irrigated place of use (orange outline) and stockwater/domestic place of use (green outline).



2023 Google Earth Imagery

Imagery confirmed 3 acres of irrigation occurred within the place of use.



August 2023 Google Street View Imagery

Figure 1. Imagery confirming stockwater and domestic use.



Figure 2. Additional Imagery confirming stockwater use.



Figure 3. Imagery of the Well location in the small building in the right side of the image.



1. WELL TAG NO. D 0087049

2. OWNER:

3.WELL LOCATION:

4. USE:

5. TYPE OF WORK:

6. DRILL METHOD:

☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

8. CASING/LINER:

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type johnson

Method of installation placed

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG)

Describe control device

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) **145** Static water level (ft) **142**

Water temp. (°F) **56degF** Bottom hole temp. (°F) **56Degf**

Describe access port well cap

Well test:

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) 245

Date Started: Jul 13, 2020 Date Completed: Jul 17, 2020

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 Coonse Well Drilling Co. No. 409

Principal Driver David E. Cooper Date Jul 20, 2020

*Driller  Date Jul 20, 2020

*Operator II _____ Date _____

Operator: _____ Date: _____

* Signature of Principal Driller and rig operator are required.