

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

A. GENERAL INFORMATIONExam Date: 1/26/2024

1. 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: William and Shyanne Guth

Owner of Record Correct? N

Address of Record Correct? N

If No Explain:

3. Beneficial Use Fees have been paid: X Y N Receipt No: C117143

4. Source: Tributary:

Groundwater N/A

Method of Determination: Department Well Records 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: No Overlap

Water Right No.	Source	Purpose of Use	Basis
63-8748	Groundwater	Domestic	License
63-18640	Groundwater	Domestic, Stockwater	Decreed
63-12448 & 63-11413	Groundwater	Municipal	Decreed

Comments: Water rights 63-8748, 63-18640, 63-12448, and 63-11413 overlap the proposed place of use. However, after reviewing the backfile for rights it was confirmed they do not overlap. Since water rights 63-12448 and 63-11413 authorize municipal use a combined limit condition with this permit would not be appropriate.

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			NE	NE	32	05N	01E	B.M.	Ada
								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, 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	
05N	01E	32	4.4, D, S																4.4
		Lot #																	
Total Acres =																			4.4

Method of Determination: GIS, Tax Parcel Data, 2023 Google Earth Imagery, and a phone conversation with the permit holder on January 25th, 2024.

Change in POU? Y X N Amendment Required? Y X N

 Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

 X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

 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
D0082718					

*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						

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 per acre for the irrigation of 5 acres or less is 0.03 cfs per acre, 4.4 acres * 0.03 cfs/acre = 0.132 cfs or 0.13 cfs rounded. According to Administrative Processing Memo #22 the standard diversion rate for a single-family home is 0.04 cfs.

The permit holder confirmed on their Statement of Completion for Proof of Beneficial Use during the phone conversation they have 8 chickens. According to Table 1, Recommended Diversion Rates for Stockwater the standard diversion rate for 8 chickens is 0.01 cfs. The permit authorized 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 0.13 cfs for irrigation, 0.01 cfs for stockwater, and 0.04 cfs for domestic use or 0.18 cfs total.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (4.4 \text{ acres}) \times (4.5 \text{ af/acre}) = 19.8 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.13 \text{ cfs}) \times (260 \text{ days}) \times (1.9835 \text{ af/day}) = 67 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 19.8 \text{ af}$$

2. Volume Calculations for Other Uses: This permit only authorizes in-house domestic use. Yard irrigation was more than ½ an acre and is separated into standard irrigation. According to Administrative Processing Memo #22 the standard diversion volume for a single in-house domestic use is 0.6 af. According to Table 1, Recommended Diversion Rates for

Stockwater the standard diversion volume for 8 chickens is 0.1 af. I am recommended a diversion volume of 19.8 for irrigation, 0.1 for stockwater, and 0.6 af for domestic use or 20.5 af total.

G. PURPOSE OF USE

Irrigation X Y N # Stock 8 chickens Domestic # of Homes 1

Change in Purpose of Use? Y X N

Method of Determination: GIS, Tax Parcel Data, 2023 Google Earth Imagery the permit holders Statement of Completion for Proof of Beneficial Use, and a phone conversation on January 25th, 2023.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 2021. The permit authorized in-house domestic use, stockwater and the irrigation of 4.5 acres. 2023 Google Earth Imagery indicated 4.4 acres of irrigation occurred. 2023 Google Street View Imagery indicated where the well and irrigation system was present within the place of use. The permit holder was contacted on January 25th, 2024. They confirmed where buildings, roads and irrigation occurred on the property. Paring 2023 Google Earth Imagery, the permit holders Statement of Completion for Proof of Beneficial Use, and phone conversion, the development of 4.4 acres of irrigation was confirmed. Three conditions on the permit require the new well be sealed from the surface to at least 200 ft, shall be installed without perforated casing, and the water temperature must be less than 85°. The Well Log, provided through Department records, determined the water temperature was 56°, no perforated casing was installed, and the well was sealed from 4ft-244 ft. 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 #22, #17 and Table 1 Recommended Diversion Rates for Stockwater were used to make diversion rate and volume 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 0.18 cfs diversion rate and 20.5 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 the standard with licensing. Condition X01 should be changed to 132 because irrigation under domestic use is already accounted for in the irrigation portion of this right. 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 X02 and 26A should be removed as standard with licensing. 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? 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	0.13 CFS	19.8 AF
Stockwater	01/01-12/31	0.01 CFS	0.1 AF
Domestic	01/01-12/31	0.04 CFS	0.6 AF
	<u>Totals:</u>	0.18 CFS	

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 1/26/2024

Reviewer  Date 3/26/24

Field Exam Map

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



2023 Google Earth Imagery

Imagery and a phone conversation on January 25th, 2024 confirmed 4.4 acres of irrigation occurred.



August 2023 Google Street View Imagery

Imagery indicated where the well is on the property and the layout of the irrigation system.





IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

RECEIVED

JUL 15 2019

WATER RESOURCES
WESTERN REGION

1. WELL TAG NO. D 0082718

Drilling Permit No. 889751Water right or injection well # 63-33808

2. OWNER:

Name William GuthAddress 2422 Harriman Ln.City Redondo Beach State CA Zip 90278

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 1 East ☒ or West ☐
Sec. 32 1/4 NE 1/4 NE 1/4Gov't Lot _____ County AdaLat. 43 44.075 (Deg. and Decimal minutes)Long. 116 21.515 (Deg. and Decimal minutes)Address of Well Site 294 HeikesCity Eagle

(Leave at least name of road & distance to road or landmark)

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
ben/cem	2	244	72cu/ft	tremie
3/4bentonite	0	2	50lbs	dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
6"	+2	265	.250	steel	☒	☐	☒
6	275	277	.250	steel	☒	☐	☒
					☐	☐	☐
					☐	☐	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type johnsonMethod of installation placed

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
265	275	.025	---	6"	stainless	

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8-12silica	244	288	2650lbs	tremie

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) 168 Static water level (ft) 168Water temp. (°F) 56degF

Bottom hole temp. (°F) _____

Describe access port well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
---	90+	180

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐
☐	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
10"	0	2	top soil		X
"	2	6	brown clay		X
"	6	12	coarse tan sand		X
"	12	14	tan clay		X
"	14	20	coarse tan sand		X
"	20	25	tan clay		X
"	25	31	coarse tan sand		X
"	31	34	tan clay		X
"	34	39	coarse tan sand		X
"	39	51	tan clay		X
"	51	73	coarse tan sand		X
"	73	77	tan clay		X
"	77	81	coarse tan sand		X
"	81	90	tan clay		X
"	90	95	coarse tan sand		X
"	95	108	tan clay		X
"	108	110	tan sand		X
"	110	117	tan clay with sand strips		X
"	117	124	tan clay		X
"	124	126	coarse tan sand		X
"	126	142	tan clay		X
"	142	189	coarse tan sand	X	
"	189	205	tan clay		X
"	205	229	coarse tan sand	X	
"	229	234	tan clay		X
"	234	241	coarse tan sand	X	
"	241	243	tan clay		X
"	243	258	coarse tan sand	X	
"	258	263	tan clay		X
"	263	276	coarse tan sand	X	
"	278	285	tan clay		X
"	285	288	blue clay		X

Completer WNE Depth (Measurable) 277Date Started: Jul 18, 2019Date Completed: Jul 2, 2019

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 Coorse Well DrillingCo. No. 409*Principal Driller [Signature]Date Jul 2, 2019*Driller [Signature]Date Jul 2, 2019*Operator II [Signature]

Date _____

Operator I [Signature]Date Jul 2, 2019

* Signature of Principal Driller and rig operator are required