

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

A. GENERAL INFORMATION

Exam Date: 5/6/2024

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: The Evelyn Howard Revocable Family Living Trust
 Owner of Record Correct? X Y ____ N
 Address of Record Correct? X Y ____ N
 If No Explain: N/A
 3. Beneficial Use Fees have been paid: X Y ____ N Receipt No: N044578
 4. Source: _____ Tributary:
 Groundwater N/A

Method of Determination: GIS, Tax Parcel Data, 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
96-7501	Hoodoo Creek	Irrigation	License
96-7022	Hoodoo Creek	Irrigation	License, Claim
96-13063	Groundwater	Domestic	Claim

Comments: Water rights 96-7501 and 96-7022's place of use GIS shape slightly overlap the permitted place of use. However, the water right backfile for 96-7501 and an adjudication claim for 96-7022 indicated there isn't any overlap. Claim 96-13063 does overlap the permitted place of use and was filed by the permit holder. The claim would authorize ½ an acre of yard irrigation, but there is no reason to limit this permit and 96-13063 when combined.

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

Water Right No.	Source	Purpose of Use	Basis
96-13063	Groundwater	Domestic	Claim

Comments: Claim 96-13063 authorizes diversion from the same well as this permit. However, since the claim authorizes domestic use there is no reason to limit 96-13063 and this permit when combined.

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

[illegible]

Method of Determination: GIS and Tax Parcel Data and Well Log.

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

2. Place of Use: Irrigation, 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	
55N	04W	27											1.0, S						1.0
		Lot #																	
Total Acres =																			1.0

Method of Determination: GIS and Tax Parcel Data, 2023 Bonner County Aerial Imagery, and a phone conversation with the applicant on May 3rd, 2024.Change in POU? Y X N Amendment Required? Y X N

3. Diversion System Information:

Description: Well with Pump to pressure tank and irrigation system.

 Delivery System Diagram Attached. (mark all major components and distances between components) X Aerial Photo indicating the location of the recommended POD and POU. X Aerial Photo Attached (required) Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*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 Application Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre. The permit holder indicated on their Statement of Completion for Proof of Beneficial Use they provide water for 50 mixed livestock. Currently there isn't a standard diversion rate for mixed livestock. I recommend the standard diversion rate for range cattle be used as an alternative. According to Administrative Application Processing Memo #3 the standard diversion rate for 50 range cattle or mixed livestock is 0.02 cfs. I am recommending a diversion rate of 0.02 cfs for stockwater and 0.03 cfs for the irrigation of 1 acre or 0.05 cfs total.

$$(1 \text{ acre}) * (0.03 \text{ cfs}) = 0.03 \text{ cfs}$$

Administrative Application Processing Memo #17 Calculation = 0.03 cfs

Administrative Application Processing Memo #3 Recommendation = 0.02 cfs

Total Recommended = 0.05 cfs

Permit allowed = 0.08 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (1.0 \text{ acre}) \times (3.0 \text{ af/acre}) = 3.0 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.03 \text{ cfs}) \times (214 \text{ days}) \times (1.9835 \text{ af/day}) = 12.7 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.0 \text{ af}$$

2. Volume Calculations for Other Uses: The permit holder indicated on their Statement of Completion for Proof of Beneficial Use they provide water for 50 Mixed Stock. Currently there isn't a standard volume for mixed livestock. I recommend the standard volume for range cattle be used as an alternative. According to Administrative Application Processing Memo #17 the standard volume for range cattle and mixed livestock is 0.7 af. I am recommending a volume of 0.7 af for stockwater and 3.0 af for the irrigation of 1 acre or 3.7 af total.

G. PURPOSE OF USEIrrigation X Y N # Stock 50 Mixed livestock Domestic # of Homes XChange in Purpose of Use? Y X NMethod of Determination: GIS, Tax Parcel Data, 2023 Bonner County Aerial Imagery, and the permit holders Statement of Completion for Proof of Beneficial Use.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. The permit authorized stockwater for 50 mixed livestock and the irrigation of 2.0 acres. 2023 Bonner County Aerial Imagery indicated irrigation was occurring within the place of use, but some tree cover made it difficult to determine the total extent of irrigation. After a phone conversation with the permit holder on May 3rd, 2024, they provided enough descriptive information to determine the total extent of irrigation. 2023 Bonner County Aerial Imagery paired with descriptions provided by the permit holder indicated 1 acre of irrigation occurred within the development period. Since the permit holder did not provide a pump horsepower a diversion rate calculation is not possible. The standards set in Administrative Application Processing Memo #17 and #3 were used to make a diversion rate and volume recommendation. All of the conditions have been met and development of beneficial use was conformed within authorization on the permit. Therefore, I am recommending a 0.05 cfs diversion rate and 3.7 af volume.

Conditions R66 should remain on the license. Condition 046 should be removed because the permit holder had a well drilled meeting the drilling permit requirements of Idaho Code §42-235 and applicable Well Construction Rules of the Department. Condition 004 should be removed because it was confirmed there are no legal access concerns to the point of diversion or place of use. Condition X02 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	04/01-10/31	0.03 CFS	3.0 AF
Stockwater	01/01-12/31	0.02 CFS	0.7 AF
	<u>Totals:</u>	0.05 CFS	3.7 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: **Skyler Cheever – Water Resource Agent**Field Examiner's  Date 5/6/2024Reviewer  Date 7/18/24

Field Exam Map

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



2023 Bonner County Aerial Imagery

Imagery indicated 1.0 acres of irrigation occurred within the development period.

96-13074 2023 Aerial Imagery



5/6/2024

Road Centerlines

- Primary
- Secondary
- Local; Ramp

Parcels

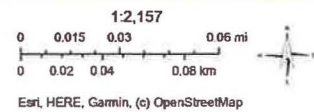
- World Boundaries and Places
- World Imagery
- Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

60cm Resolution Metadata



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D D0069826Drilling Permit No. 877601
Water right or injection well # _____

2. OWNER:

Name Evelyn Howard & Gary Gornick
Address 27057 Industrial Blvd. Ste. 201
City Hayward State CA Zip 94545

3. WELL LOCATION:

Twp. 55 North ☒ or South ☐ Rge. 4 East ☐ or West ☒
Sec. 27 1/4 SW 1/4 SW 1/4Gov't Lot _____ County Bonner
Lat. 48 04.818 (Deg. and Decimal minutes)
Long. 116 49.460 (Deg. and Decimal minutes)
Address of Well Site 7841 Spirit Lake Cut Off Rd.City Priest River
(Give full 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
Bentonite Chips	0	38	1000 lbs.	Temp. Casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	135	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) Ring @ 140

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type Stainless Steel Wire Wrapped
Method of installation Pulled Casing Back

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
135	140	.030	-	5	Steel	.250

Length of Headpipe NA Length of Tailpipe NAPacker ☒ Y ☐ N Type k-packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
NA				

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) 94 Static water level (ft) 94
Water temp. (°F) Cold Bottom hole temp. (°F) Cold
Describe access port Steel Welded Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
140	50 gpm	240

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐

Water quality test or comments: Clear, Cold and No Smell

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
12	0	38	Top Soil and Sand		X
8	38	94	Course Sand		X
8	94	128	Course Sand w/Brown Clay	X	
8	128	140	Course Sand	X	

RECEIVED

MAR 28 2016

IDWR / NORTH

Completed Depth (Measurable): 140'Date Started: Dec 21, 2015 Date Completed: Dec 22, 2015

14. DRILLER'S CERTIFICATION:

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

Company Name Horsley Drilling, Inc. Co. No. 632Principal Driller C. Mark Horsley Date Dec 23, 2015Driller Zach Horsley Date Dec 23, 2015

Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.