

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34505
Exam Date: 10/17/2023

1. Current Owner:
GARY ALTENBURG 4940 N SOARING LN EAGLE ID 83616-1937 AND/OR
DEBORAH ALTENBURG 4940 N SOARING LN EAGLE ID 83616-1937
2. Accompanied by: Gary Altenburg
Phone No: (760) 975-1657
Address: 4940 N Soaring Lane Eagle, Idaho 83616
Relationship to permit Holder: Owner

3. SOURCE:
GROUND WATER

Method of Determination: Site Visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: No Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

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

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE¼ SE¼, Sec. 30, Twp 05N, Rge 01E, B.M. ADA County

Method of Determination: Site Visit and GPS

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01E	30													9.6				9.6

Total Acres: 9.6

Method of Determination: Site Visit and GPS

3.

X Delivery System Diagram Attached (required). Indicate all major components and distances between components.
X 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
X 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0100230					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow Meter	Ultrasonic	GE Panametrics	Transport PT878	10087		

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Flow Meter, Instantaneous reading

0.99 GPM

Standard rate = $0.02 \text{ CFS per Acre} \times 9.6 \text{ acres} = 0.19 \text{ CFS}$

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 10 \text{ acres} \times 4.5 \text{ AF/acre} = 43.2 \text{ AFA}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.22 \text{ CFS} \times 246 \text{ days}) \times 1.9835 = 107.35 \text{ AFA}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 43.2 \text{ AFA}$

2. Volume Calculations for Other Uses: **N/A**

G. NARRATIVE/REMARKS/COMMENTS

A beneficial use field exam was performed by Jared Adamson on October 17, 2023. A second visit was made on October 27, 2023, to record an accurate flow measurement. Gary Altenburg was present during both site visits. A flow measurement was attempted on October 17, 2023, but an error in site setup or a malfunctioning flow meter made measurement unattainable. The flow rate of 99 GPM and 0.22 CFS was recorded on October 27, 2023. The flow meter used was a Transport PT878 ultrasonic flow meter. The diversion consists of a well with submersible pump. A two-inch pipe rises about 2 feet and then bends 90 degrees to a pressure relief valve and coupler for a 2-inch irrigation hose.

The irrigation system currently consists of one large sled style sprinkler that is capable of being towed by a utility vehicle or four-wheeler. The sprinkler is connected to a 2-inch irrigation hose. The sprinkler is capable of 60 to 80 GPM. The irrigation system allows for irrigation of every section of the place of use. The place of use is currently being irrigated to fill the soil profile and irrigate the natural grasses in preparation for propagating pasture seed in the spring.

The point of diversion for the irrigation use is a new well constructed on 5/24/2023. The existing well was drilled in 2003. This is the well used for the house and irrigation of landscape immediately surrounding the house and driveway. The domestic well is not connected to the new well or the irrigation infrastructure attached to the new well. The water right should be licensed with only one point of diversion, listing the well that was constructed on 5/24/2023 as the point of diversion.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
IRRIGATION	03/01 to 11/15	0.19 CFS	43.2 AF
Totals:		0.19 CFS	43.2 AF

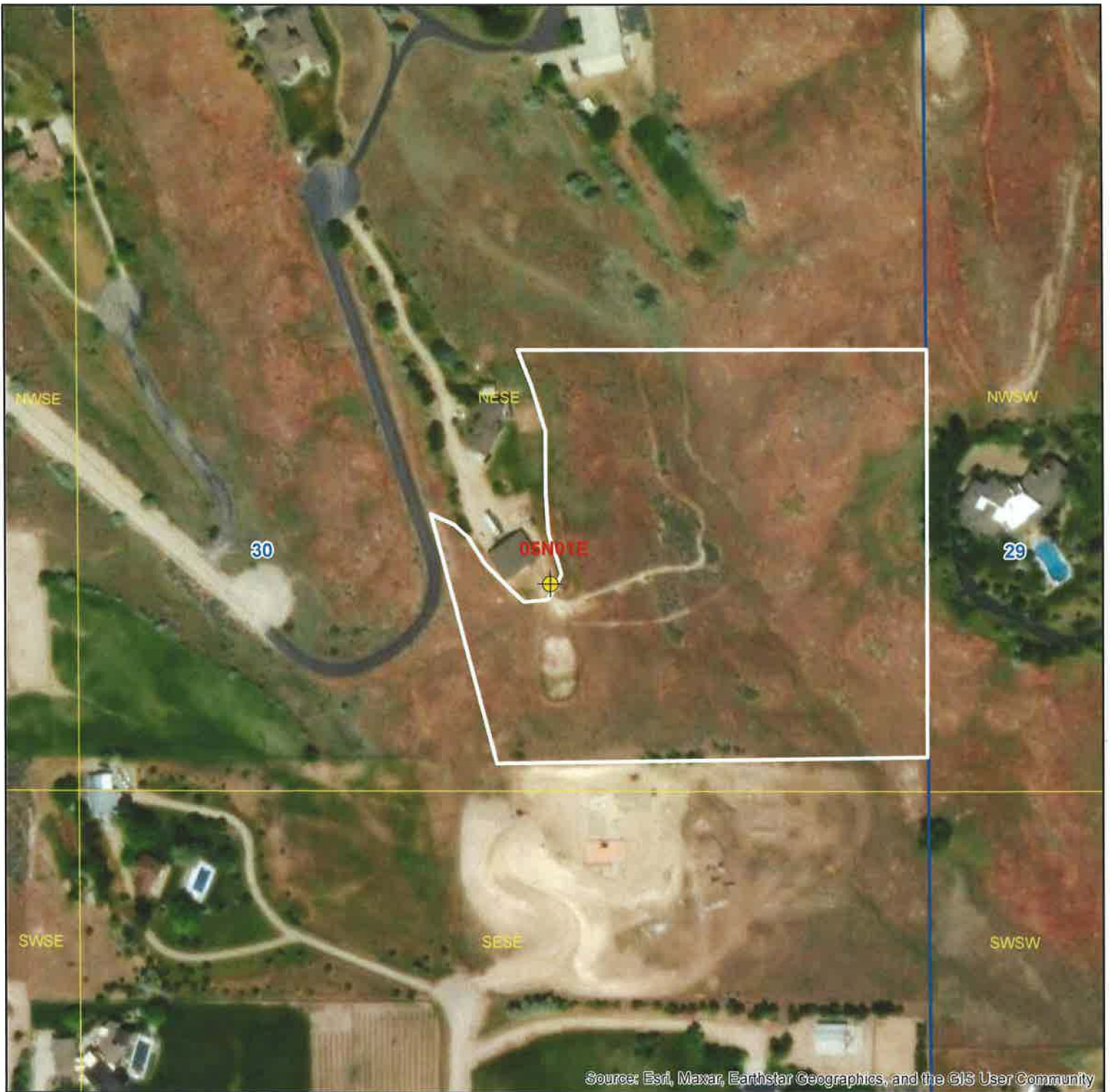
2. Recommended Amendments

☐ 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

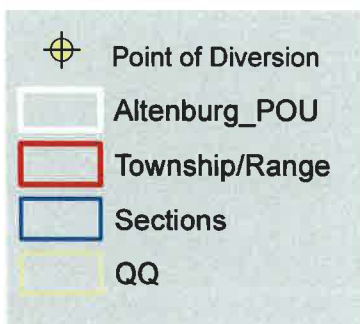
I. AUTHENTICATION Jared Adamson – Water Resource Agent, Sr.

Field Examiner's Name  Date 10/31/2023

Reviewer  Date 10/31/2023



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Comment: Licensing exam for Water Permit No. 63-34505.





Point of Diversion:

The point of diversion is a well with a submersible pump. The irrigation line is 2-inch pipe to 2-inch water hose.



Place of Use:

The place of use begins at the home in the center background to the foreground of the photo. The owner is currently irrigating to increase the establishment of native grasses and to fill the soil profile for planting pasture grass in the spring.





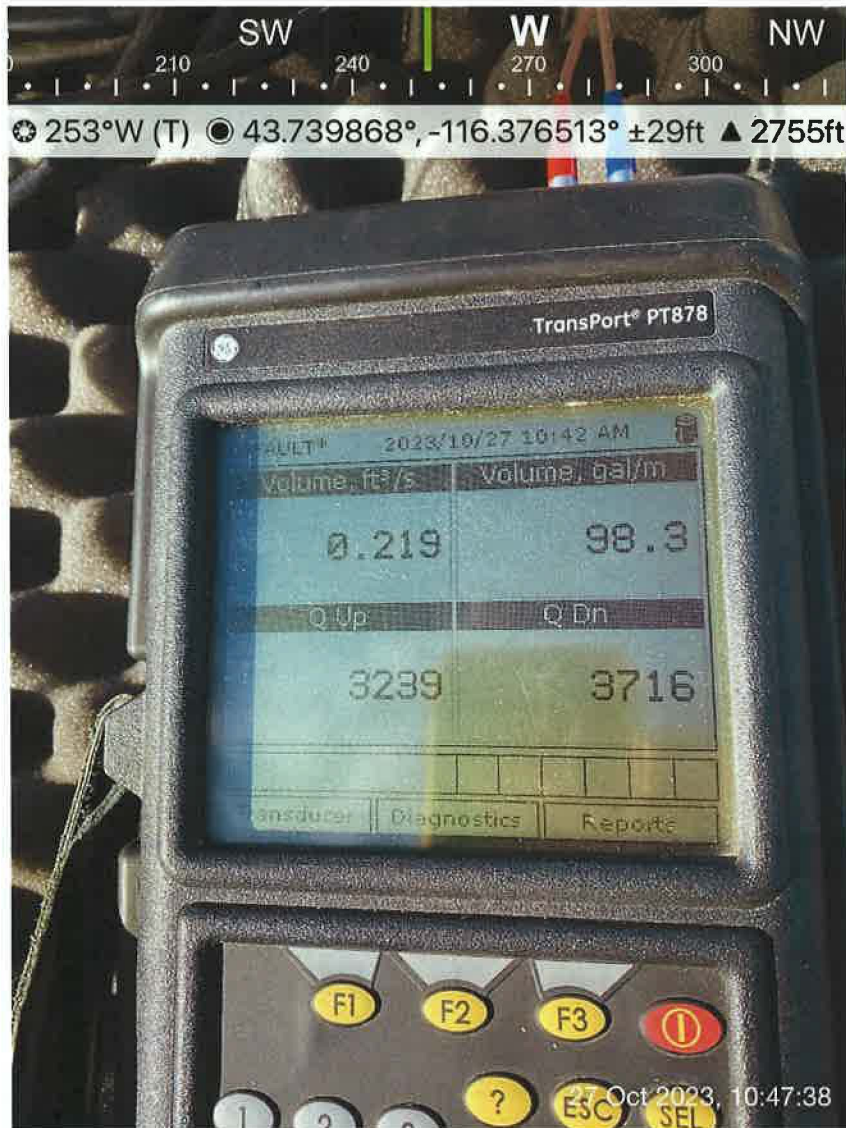
Place of Use:

The place of use extends to the south of the house and wraps around to the south west side of the property.



Sprinkler:

The sprinkler used sits on a 6-foot-tall pipe attached to a sled that can be pulled by a UTV or 4-wheeler. The sprinkler can handle 60 to 80 GPM.



Measurement:

The flow rate captured was 0.22 CFS.