

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33474
Exam Date: 6/30/2022

1. Current Owner:
ROGER K JORGENSEN 10124 W COLTON LN EAGLE ID 83616
2. Accompanied by: Roger K Jorgensen
Phone No: 208-761-5716
Address: 10124 W Colton Lane Eagle ID 83616
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit, aerial imagery

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER NE¼ SE¼, Sec. 8, Twp 05N, Rge 01W, B.M. ADA County

Method of Determination: Site visit, aerial imagery, well log, GPS Point

PLACE OF USE: STOCKWATER

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	01W	8													X	X			

PLACE OF USE: HEATING

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	01W	8													X	X			

Method of Determination: Site visit, aerial imagery

3.
 - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 - ☒ Indicate weir size/pipe as applicable.
 - ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 - ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
 - ☒ Photo of Diversion and System Attached

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OCT 05 2023

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Grundfos	5		Grundfos 230	

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: Submersed pump and conveyance system did not provide suitable circumstances to directly measure the diversion rate.

E. FLOW CALCULATIONS

N/A Additional Computation Sheets Attached

Measured Method: Per IDAPA Beneficial Use Exam Rule 35.01.r no direct measurement was required.

Stockwater use: Annual Use of Water for Stockwater Purposes using Processing Memo #3

Standard Diversion Rate for 30 head mixed livestock = 0.02 cfs

Heating use: Same as Stockwater = 0.02 cfs

Permitted Total Rate = 0.20 cfs

License Recommendation = 0.02 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: Annual Use of Water for Stockwater Purposes using Processing Memo #3

30 Head mixed livestock = 0.7 AF

G. NARRATIVE/REMARKS/COMMENTS

A field exam was conducted on 06/30/2022 by Senior Water Resource Agent Aaron Olson and was accompanied by the applicant, Roger K Jorgensen. The permit was approved on July 20th, 2011, with a proof due date of August 1, 2016. A request for extension of time was approved on June 30, 2016, extending the proof due date to August 1, 2021. Proof of beneficial use was submitted on July 16, 2021, with an examination fee of \$100.

The source of water for the permit is ground water from a 6 inch well tagged number D0029034 located in NESE Section 8, T05N, R01W, with a submersed 5 HP Grundfos 230 pump. The conveyance system was buried under the soil and connected to a small series of irrigation sprinklers and frost-free hydrants used to fill Stockwater troughs.

The permit authorizes 0.12 cfs for irrigation, 0.08 cfs for Stockwater, 0.02 for domestic use, and 0.20 cfs for

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OCT 05 2023

heating use for a total diversion of 0.20 cfs. When the well used for this right was drilled a water temperature of 90 degrees Fahrenheit was encountered and the permit was conditioned to require the low temperature geothermal (LTG) water be used for the heating value/purpose before the other uses. The application originally proposed a homestead and livestock operation that would use LTG water for heating purposes and then apply the used water to irrigation, but the homestead was never developed. Approximately 2 acres of irrigation were developed and observed during the exam, but the irrigation use was not consistent with the LTG conditions of the permit since the irrigation water was not being used for heat value first, therefore irrigation use is not recommended for this license. The stockwater use developed for 30 head of mixed livestock consisted of several frost-free hydrants used to fill stock troughs. The conveyance system consists of a 1.25" PVC mainline that connects the well to the 5 frost-free hydrants. Livestock are kept at the site year-round and the LTG water is utilized to prevent the troughs from freezing, therefore a stockwater use of 0.02 cfs/0.7 AF is recommended on this license with an equivalent heating use.

Originally the permitted place of use for stockwater and heating use were solely within NESE Section 8, T05N, R01W, but at the time of the exam a majority of the troughs were located within NWSE Section 8, T05N, R01W. An Application for Amendment For Licensing Purposes was sent to the applicant on September 12, 2023, to include the NWSE QQ in the place of use. The applicant signed and returned the form on September 13, 2023.

Condition 26A was removed as per department licensing standards. Condition X60 was updated to include both parcels the right was developed on. Condition X02 was updated to 30 mixed livestock. Condition X01 was removed due to no home being developed. Condition R65 was removed due to irrigation being removed. Condition 121 was updated to 103 as per department licensing standards.

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>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.02 CFS	0.7 AF
HEATING	01/01 to 12/31	0.02 CFS	0.7 AF

Totals: 0.02 CFS 0.7 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 Aaron Olson – Water Resource Agent, Sr.

Field Examiner's Name  Date 9/29/2023

Reviewer  Date 9/27/2023

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OCT 05 2023

DELIVERY SYSTEM DIAGRAM

Water Right No. 63-33474

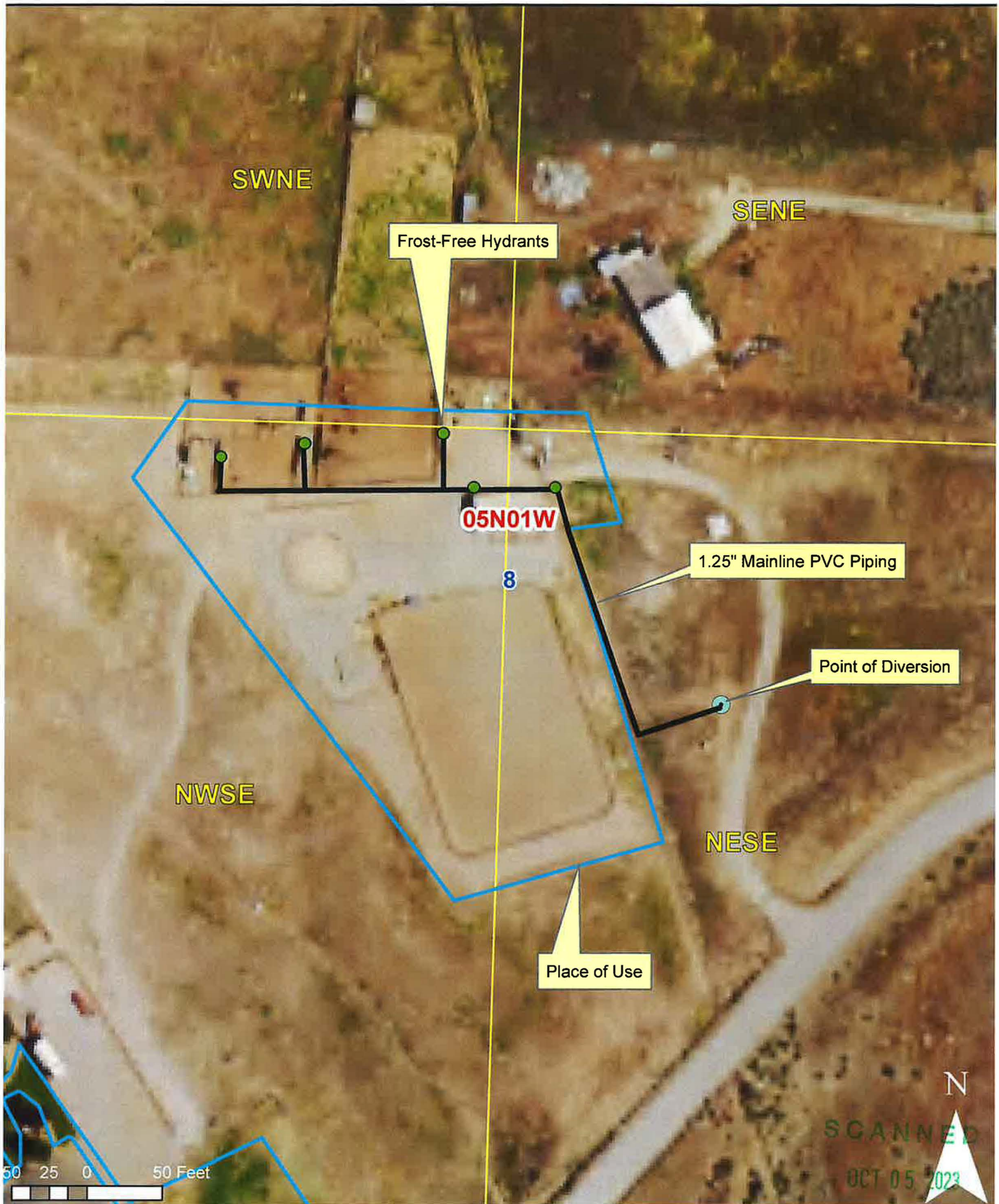




Fig. 1 – Location of well. Located in the NESE QQ.

GPS at:

43.78576

-116.47756



Fig. 2 – Well Tag D0029034



Fig. 3 & 4 – Frost-Free Hydrants
used for stock watering.



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OCT 05 2023



Fig. 5 & 6 – Frost-Free Hydrants
used for stock watering.

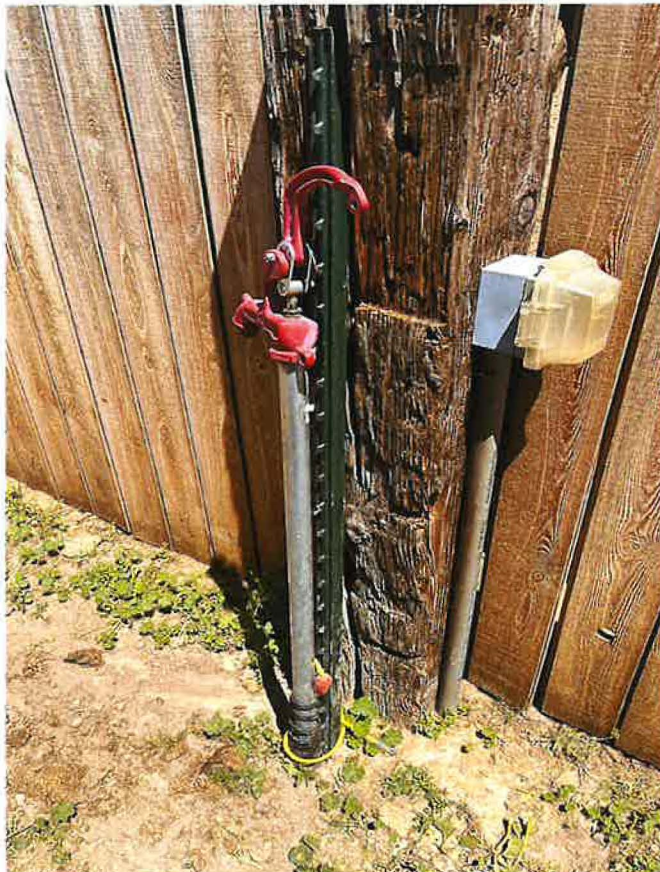




Fig. 7 – Frost-Free Hydrant used for stock watering.



Fig. 8 – Livestock pen with troughs.



Fig. 9 – Livestock pen with troughs.



Fig. 10 – Livestock area.



Fig. 11 & 12 – Livestock areas.



Fig. 13 – conveyance system with 1.25" PVC pipe connected to hydrant system and Rain Bird sprinkler used for irrigation.



Fig. 14 – Rain Bird sprinkler and small pasture (irrigation use not recommended on license).