

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15336
Exam Date: 05/19/2025

1. Current Owner:
INDIAN VALLEY RANCH LLC C/O TIM BORDGES
1040 W INDIAN VALLEY RD INDIAN VALLEY ID 83632-5016
2. Accompanied by: Jack Holmes
Phone No: 208-741-3275 (Jack's Cell)
Address: MEETING AT 1091 US-95 Indian Valley, ID 83632 (on site)
Relationship to permit Holder: Renter- operating facilities

3. SOURCE:

GROUND WATER

Method of Determination: GARMIN GPS and GIS imagery.**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: No irrigation rights overlap the permitted place of use (POU).

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

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: No rights share the permitted point of diversion (POD).**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION (POD):**GROUND WATER NE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄, Sec. 33, Twp 15N, Rge 01W, B.M. ADAMS CountyGPS COORDS: N44.59883° , W116.46358°Method of Determination: Garmin GPS Coordinates. Note: the red area is the recorded location for the POD, which was not included in the permit or indicated in the application for permit.**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	
15N	01W	33		24	0.8		0.5												25.3

Total Acres: 25.3

Comments: The red areas indicated are in areas not permitted or requested in the application for permit place of use (POU).

Method of Determination:

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

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

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	Pump Model No.	Pump Make	Pump Serial No. or Discharge Size
D0085305	Franklin Electric	15	P6T15-155	Berkley	155 GPM

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	State ID No.	Size	Calib. Date
Panametric	Acoustic Flowmeter	GE	PT878	305120		04/03/2025

2. Measurements: Clamp on measurement using 402 transducer on 6.65 in OD steel line.**E. FLOW CALCULATIONS**

Measured Method: 10 x 1-min measurements logged with Panametric. The first 5 mins the large wheel line (27hds) was running. The last 5 ran the large wheel line (27hds) and handlines (10 hds) were running.

Table 1. Measurement Log

Time 25/05/19	Velocity ft / sec	Vol ft^3 / Sec	FWD Totalizer (GAL)
12:04	2.17	0.448	524,188.04
12:05	2.12	0.438	524,387.03
12:06	2.22	0.459	524,590.45
12:07	2.38	0.493	524,802.19
12:08	2.4	0.496	525,026.11
12:09	2.47	0.51	525,255.36
12:10	2.4	0.496	525,490.88
12:11	2.38	0.493	525,702.98
12:12	2.38	0.492	525,920.14
12:13	2.36	0.487	526,149.73
12:14	2.27	0.47	526,367.46

Comments/Recommendation: The measurement log reached a maximum average rate of 0.51cfs, which exceeds the irrigation standard of 1.0cfs/50 acres (0.02cfs/acre). The peak observed and photographed live reading was 0.517cfs (0.52cfs). I recommend that the license is issued with a maximum rate of 0.51cfs for the irrigation of a GIS measured 25.3 acres.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 25.3 \text{ acres} \times 4.0 \text{ AF/acre} = 101.2 \text{ AF annually}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.51 \text{ cfs} \times 231 \text{ days} \times 1.9835 = 233.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{101.2 \text{ AF annually}}$$

2. Volume Calculations for Other Uses: NA

Comments/Recommendation: Although the permit was issued for 33 acres of irrigation the actual place of use (POU) area permitted and developed is the permit holder's parcel south of Highway 95 and 1.3 acres in the adjacent qtr/qtrs, which has a total area of approximately 25.3 acres. Thorn Creek and a small drainage pass through the irrigation POU, so a minimal area for the creek was subtracted from the POU since it is riparian and/or waterway. I recommend that the license is issued for an annual volume of 101.2 AF for the irrigation of 25.3 acres, per the field headgate standard calculation above.

G. NARRATIVE/REMARKS/COMMENTS

The Department received the Proof of Beneficial Use for permit 67-15336 on January 8, 2025, submitted and signed by the permit holder Tim Bordges, Indian Valley Ranch. In section 3 of the proof the permit holder stated that beneficial use was developed for the irrigation of 33 acres. On May 19, 2025, a field examination was conducted with John ("Jack") Holmes, Jr. (renter) as escort. Permit 67-15336 is for irrigation from groundwater with no overlapping irrigation rights.

The wellhead POD is in the northeast corner of the NENW of section 33, the adjacent qtr/qtr to the permitted POU on the south side of Highway 95. The renter stated that water is diverted using a 15 Hp submersible pump set at a depth

of approximately 126 ft. The system delivers water via a 6" steel main to a row of risers running along the western extent of the property. A large wheel line in the south half of the permitted POU with an estimated 27 sprinkler heads, a shorter wheel line in the north half of the POU, and multiple sections of handline with 10 heads are attached to the risers using flex line. The large wheel line and handlines were running during the field examination. The renter stated that the pump would not provide sufficient pressure to run both wheel lines simultaneously. The combined peak rate observed during the field examination was 0.52cfs (0.517cfs in photo 5).

The imagery shows small areas in the NENW and SWNE of section 33 developed, however, the parcel fence lines appear to be offset to the southwest, which is the same in surrounding parcels, on the DRG map (on the final page of this report), and the warranty deed submitted with the ownership change for the permit which describes the areas south of Highway 95 to all be located within the NWNE of section 33. Approximately 24.8 acres of the 33-acre place of use (POU) are within the parcel shape located entirely within the NWNE of section 33, south of Highway 95. The portion of the POU and the POD both in the NENW of section 33 are within a parcel listed by Adams County tax parcel records as currently owned by Toni Lynn Morgensen. However, since the beneficial use was developed within the fence lines used by the permit holder and the Morgensen and no comment or protest were received during the advertising period the license should be amended and issued to represent the use developed, including the areas in the adjacent qtr/qtrs. Thorn Creek crosses the permitted POU from east to west. A GIS measurement removing Thorn Creek from the permitted POU found beneficial use has been developed for approximately 24 acres with an additional 1.3 acres developed in the adjacent qtr/qtrs. Although the system can divert a rate of 0.0206cfs/acre the licensed rate should be limited by the beneficial use developed and the standard rate established by IC 42-202.3 (0.02cfs/acre). I recommend the license is issued with a maximum rate of 0.51cfs for the irrigation of 25.3 acres, and an annual volume of 101.2 AF per the headgate calculation in section F of this report.

I recommend the license is issued with conditions R64, 01M, and 103. Permit condition 121 should be replaced with license condition 103 at licensing. Permit condition R65 should be replaced with condition R64 at licensing to describe the correct field headgate standard for the place of use. Conditions 046 and 26A should be removed at licensing, according to current guidance.

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>
IRRIGATION	03/15 to 10/31	0.51 CFS permitted	101.2 AF

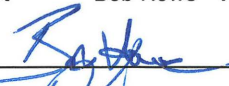
Totals: **0.51 CFS** **101.2 AF**

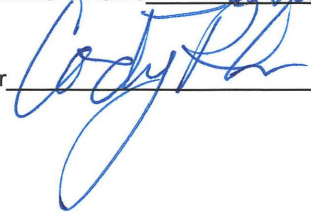
2. Recommended Amendments

☒ 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

Bob Howe - Water Resource Agent, Sr.

Field Examiner's Name  Date 5/27/2025

Reviewer  Date 12-17-25

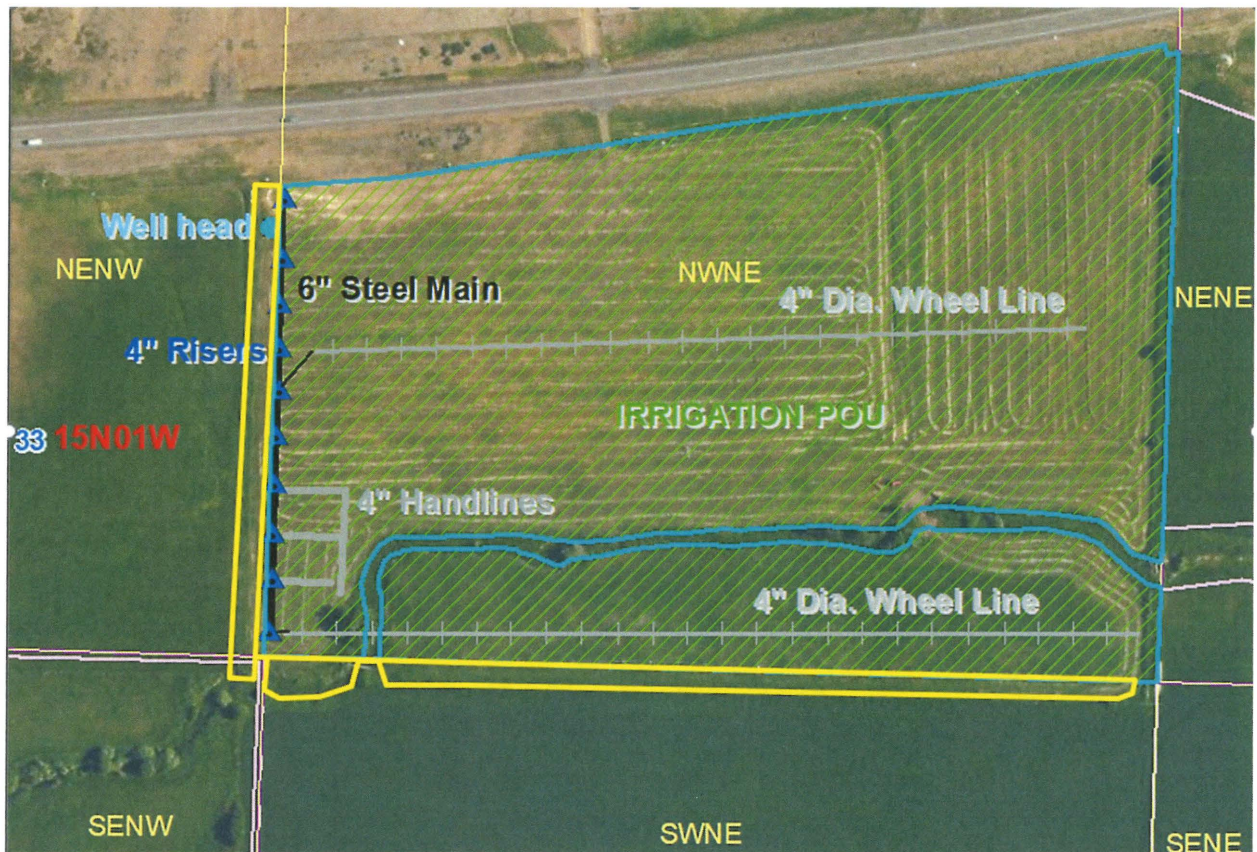


Figure 1 (2023 NAIP Imagery)- SYSTEM DIAGRAM (actual hand line dia. is 3"). Permitted POU area (outlined in blue). Areas added through amendment.



Figure 2-(2023 NAIP Imagery)-Permit 67-15336 place of use. Includes the entire parcel south of the highway but does not exclude the creek. The parcel layer projection is slightly offset to the north and east.

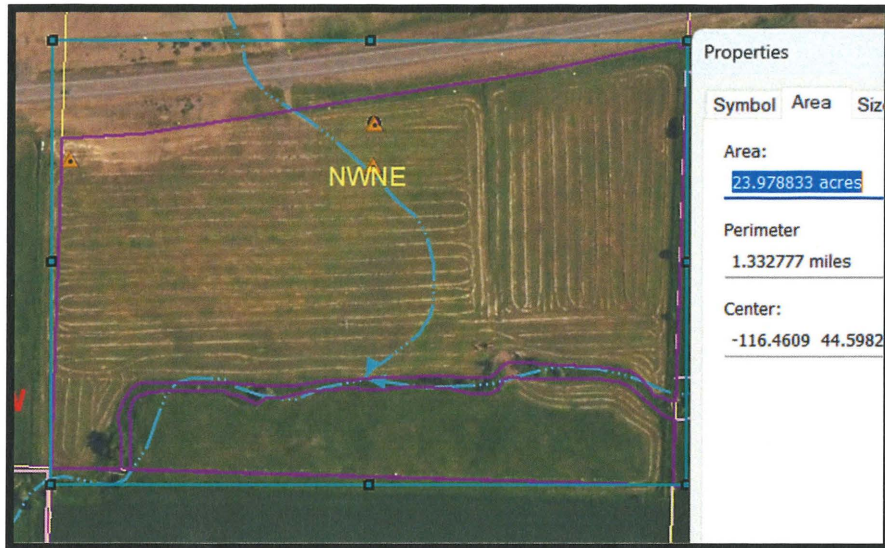


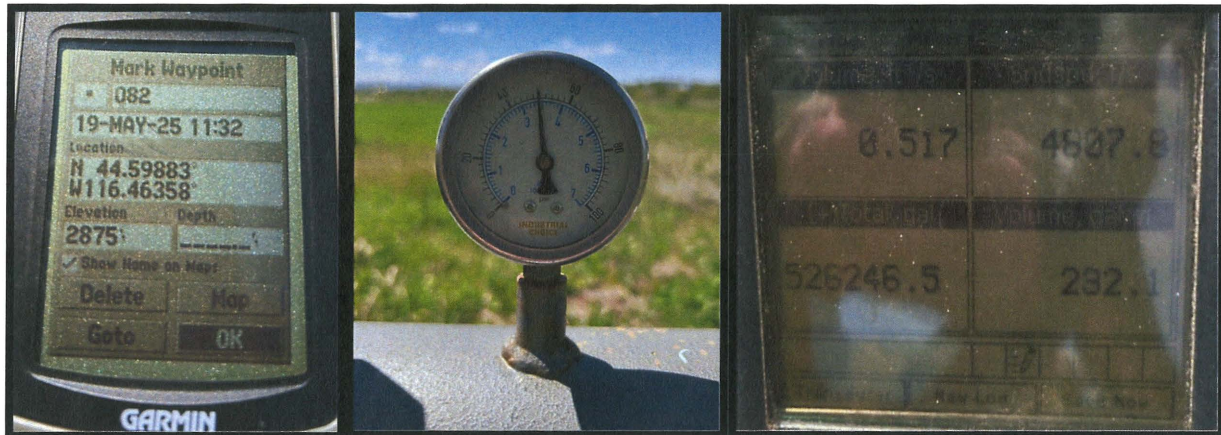
Figure 3 (2023 NAIP Imagery)-License 67-15336 POU (outlined in purple) excluding Thorn Creek from the POU.



Photo 1– Standing in the northwest corner facing south. The row of risers run on the near side of the fence line.



Photos 2 & 3 – Diameter measurement of the steel main (left), Well head tag (right).



Photos 3 to 5— GPS Coordinates for well head (left). Pressure gauge on main (center). Peak observed live rate on Panametric(right).



Photos 6a & 6b— Standing in the northwest corner facing south. Both wheel lines are in the background the southern of the two and the hand lines can be seen running during the field examination. The row of risers inside the western fence line (below).





Photo 7– Standing in the southwest corner facing northeast. The southern wheel line is connected to the end of the steel mainline in the foreground and the handlines are running at the center of the image with the idle northern wheel line in the background.



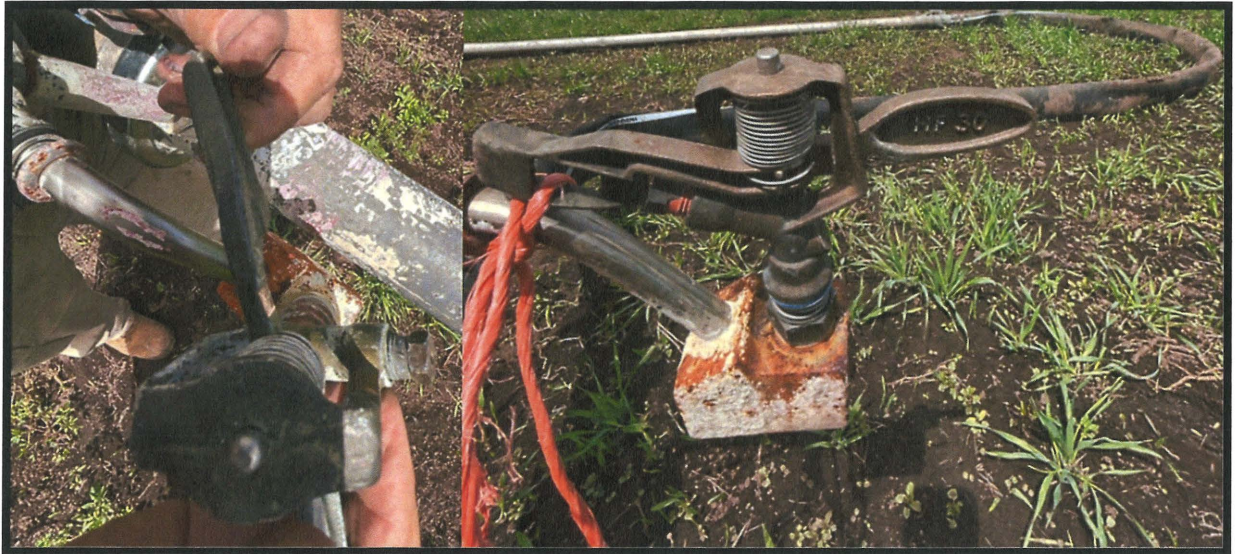
Photo 8– Standing in the southwest corner of the POU facing east. The southern wheel line is crossing the creek obscured by the riparian growth around the creek to the east. The southernmost handlines can be seen running in the left of frame.



Photos 9 &10 – Standing along the west extent of the POU facing east. The handline and norther wheel line are connected to the row of risers.



Photo 11 – Standing along the west extent of the POU facing southeast. The hand lines in the foreground and the southern wheel line running in the background.



Photos 12 & 13 – Wheel line sprinkler heads (HF-30) with 9/64 tips.



Photo 14– Hand line sprinkler head (Buckner 860).



Photo 15– Standing in the northeast corner of the POU facing south. Both wheel lines can be seen in frame.



Photo 16– Standing in the northeast corner of the POU facing west.



Photo 17– Standing in the northwest corner of the POU facing south. Recording the measurement log with the panametric.

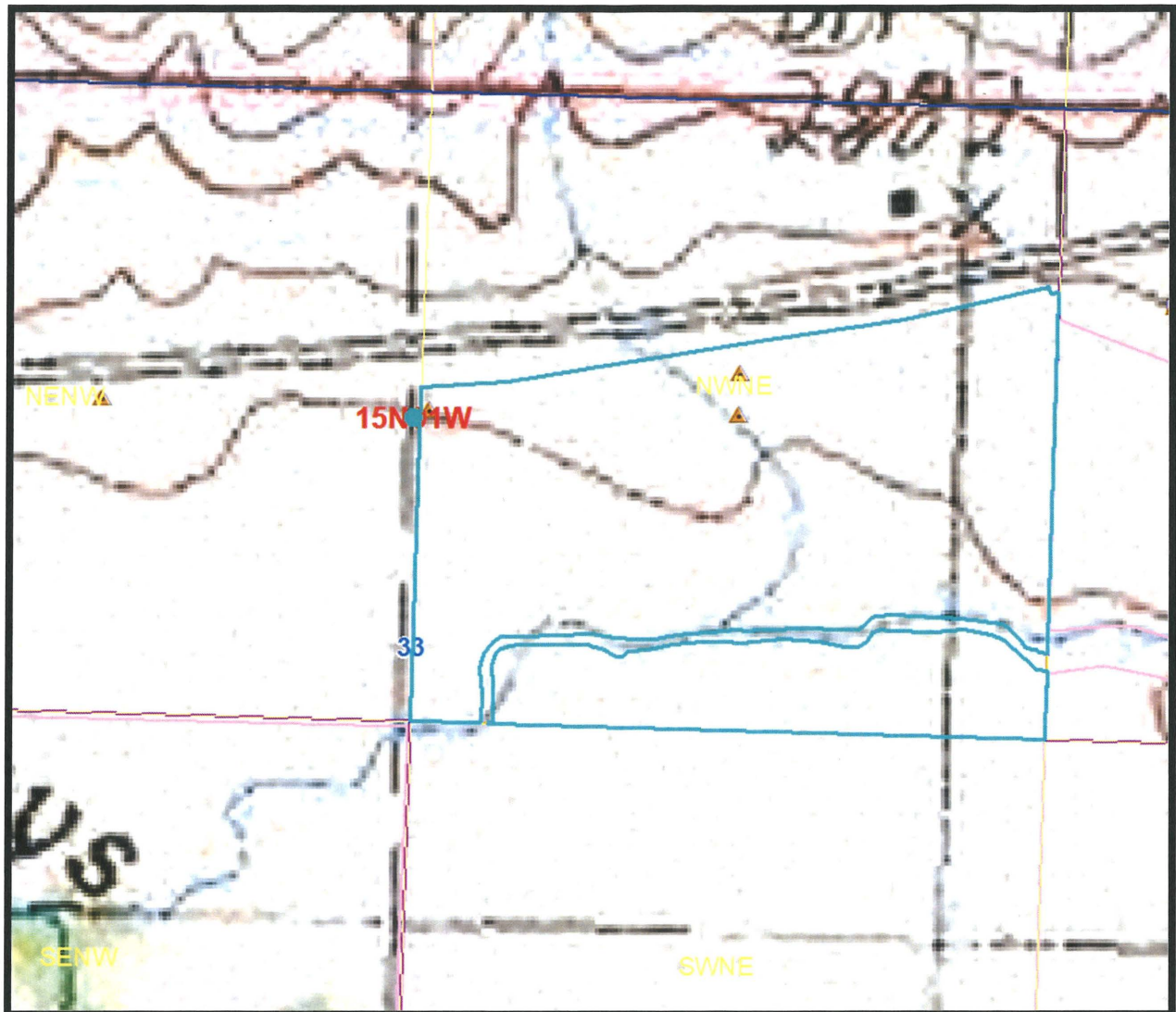


Figure 4- DRG Map indicates that the survey data layer is projected differently than it was mapped historically.

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IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0085305

Drilling Permit No. 893833
Water right or injection well # 67-15336

2. OWNER:

Name Elden Isaak
Address 2275 N Grays Creek Rd
City Indian Valley State Id Zip 83632

3. WELL LOCATION:

Twp. 15 North ☒ or South ☐ Rge. 1 East ☐ or West ☒
Sec. 33 1/4 ne 1/4 ne 1/4

Gov't Lot _____ County Adams
Lat. 44 ° 35.933 (Deg. and Decimal minutes)
Long. 116 ° 27.808 (Deg. and Decimal minutes)
Address of Well Site N of 1075 HWY 95

City Indian Valley

(Give 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 ft³)	Placement method/procedure
3/4 bentonite	0	57	1650 lbs	hand pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Linear	Threaded	Welded
10	+2	70	.250	steel	☒	☐	☐	☒
8	65	183	.250	steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 70

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method torch

Manufactured screen ☐ Y ☒ N Type _____

Method of installation set in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
143	183	6-1/8	60 ft	8	steel	.250

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
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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) 129 Static water level (ft) 11

Water temp. (°F) 51 Bottom hole temp. (°F) _____

Describe access port flat plate

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
140	500+	1 hr

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
14	0	15	brown clay		X
14	15	45	broken black lava		X
14	45	57	black lava		X
10	57	70	black lava with brown cinder		X
10	70	89	black lava		X
10	89	129	black lava with red cinder		X
10	129	165	black lava with cracks	X	
10	165	172	soft black lava and cinders	X	
10	172	175	black lava		X
10	175	195	soft lava with red cinder	X	

RECEIVED

MAY 21 2020

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 195

Date Started: 5-5-2020

Date Completed: 5-8-2020

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 Waterpro Well Drilling Co. No. 626

*Principal Driller Monte Post Date 5-13-2020

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Re: Field Examination Schedule Request-Permit 67-15336

From Howe, Bob <Bob.Howe@idwr.idaho.gov>

Date Fri 4/4/2025 9:51 AM

To Jack Holmes <jjaj67@yahoo.com>

Hi jack,

Thank you for the update. Yes, please let me know as soon as the system is up and running, so I can try to fit you into the field examination schedule for this season. Thank you again.

Regards,

Bob Howe

 IDAHO DEPARTMENT OF
WATER RESOURCES
Bob Howe | Water Resource Agent, Sr.
2735 W Airport Way, Boise, ID 83705-5082
(208) 605-4628 | www.idwr.idaho.gov

From: Jack Holmes <jjaj67@yahoo.com>

Sent: Wednesday, April 2, 2025 3:34 PM

To: Howe, Bob <Bob.Howe@idwr.idaho.gov>

Subject: Re: Field Examination Schedule Request-Permit 67-15336

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

It is extremely muddy where the electrician needs to go so I don't think it's going to be operational on April 11th. I will let you know when we can show it as operational so you can do the site visit.

Jack Holmes

Sent from my iPhone

On Mar 25, 2025, at 4:57 PM, Jack Holmes <jjaj67@yahoo.com> wrote:

I will try to get it done by then. Hata Electric is the contractor doing the work and I will let them know that we need it done before that date if possible. If not I will let you know so we can schedule it for another time.

Thanks

Jack
Sent from my iPhone

On Mar 25, 2025, at 8:48 AM, Howe, Bob <Bob.Howe@idwr.idaho.gov> wrote:

Hi Jack,

I am scheduled to be in Midvale on Friday, April 11, 2025. Please let me know if you could have the system online by that time. Thank you!

<Outlook-Graphical>

From: Howe, Bob <Bob.Howe@idwr.idaho.gov>
Sent: Tuesday, March 25, 2025 8:08 AM
To: Jack Holmes <jjaj67@yahoo.com>
Subject: Re: Field Examination Schedule Request-Permit 67-15336

Hi Jack,

As I stated in my preceding email the system needs to be running for the field examination. How long will it take to get the system back online? I was hoping to schedule this early in the year, before we are busy. This is further complicated since I will need to schedule additional examinations in the area for the same time, due to the distance from our office. Thank you for making me aware of the issue, please let me know a timeline as soon as possible.

<Outlook-Graphical>

From: Jack Holmes <jjaj67@yahoo.com>
Sent: Monday, March 24, 2025 6:13 PM
To: Howe, Bob <Bob.Howe@idwr.idaho.gov>
Subject: Re: Field Examination Schedule Request-Permit 67-15336

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

We are in the process of changing the power to the pump from a generator to Idaho Power and it is not working at this time. It has been operating in the past as you can see by the picture you sent showing the crop during harvest. Let me know how we can work around this issue.

Thanks

Jack Holmes

Sent from my iPhone

On Mar 24, 2025, at 4:09 PM, Howe, Bob
<Bob.Howe@idwr.idaho.gov> wrote:

From: Howe, Bob
Sent: Monday, March 24, 2025 4:01 PM
To: tim@bordgestimber.com
Subject: Field Examination Schedule Request-Permit 67-15336

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit during the months of **April-May, 2025**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.66CFS** from **Groundwater** for **irrigation** use. Please note, the system needs to be operational at the time of the field examination. **Please contact me at your earliest convenience to schedule the examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued, and the permit should be relinquished. If that use was developed but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the attached Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Ownership Change form with the applicable \$25 processing fee.

Please contact me at (208) 605-4628 if you need to reschedule the examination or if you have any questions or concerns.

<Outlook-Graphical>

<relinquishment-of-permit-1.pdf>

<Proof Report.pdf>

<notice-of-change-of-water-right-ownership-1-1.pdf>

<2023-NAIP Imagery Permit 67-15336.PNG>