

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-11985

Exam Date: 04/03/2025

1. Current Owner:
HOMEDALE JOINT SCHOOL DISTRICT #370 116 E OWYHEE AVE HOMEDALE ID 83628
2. Accompanied by: Dan Aberasturi
Phone No: (208) 869-6282
Address: Homedale MS- 3437 Johnstone Rd Homedale, ID 83628
Relationship to permit Holder: Representative

3. SOURCE:

GROUND WATER

Method of Determination: Garmin GPS**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
2-2276, 2-64, 2-65, & 2-10416	SNAKE RIVER	IRRIGATION	Decreed 2009, Licensed

Comments: The only irrigation rights overlapping the permitted place of use (POU) are the service area for Gem Irrigation District. Correspondence with Gem clarified that HJSD #370 has 110.5 acres of irrigation delivered. However, the appurtenant parcel is 127 acres, and Gem stated that the school did not have adequate shares to irrigate the baseball fields.

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:**GROUND WATER SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 8, Twp 03N, Rge 05W, B.M. OWYHEE CountyGPS COORDS: N43.61313° W116.95323° (Tag D0080308)Method of Determination: Garmin GPS, GIS imagery.**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	
03N	05W	8				2.1													2.1

Total Acres: 2.1

Method of Determination: GIS Imagery, Owyhee County tax parcel data, and Google Earth Pro.**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

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Tag D0080308	Pentair	5	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS**1.**

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE	NA	NA	NA	NA	NA	NA

2. Measurements: The main line and system are buried, so a flowmeter measurement was not possible. However, no measurement is required for up to 5 acres of irrigation per IDAPA 37.03.02.035.01.r.

E. FLOW CALCULATIONS

Measured Method: As the system is buried it was not possible to take measurements during the field examination. However, the representative was able to provide system specifications including the submersible pump horsepower, set depth, and the VFD pressure setpoint enabling a theoretical measurement to determine a reasonable rate for the system.

Theoretical Calculation:

Pressure setpoint: 58psi

Set Depth: 100 ft

Pump Hp: 5 Hp

$$Q = (5.0 \text{ Hp})(8.8)(0.80 \text{ efficiency}) / ((100 \text{ ft lift}) + (2.31) * (58 \text{ psi})) = \mathbf{0.15 \text{ cfs}}$$

Theoretical Rate= 0.15cfs

Permitted Rate= 0.20cfs

BU Limited Rate= 0.04cfs

Recommendation= 0.04cfs

Comments/Recommendation: Although the theoretical calculation indicates the system is capable of 0.07cfs/acre the licensed rate should be limited to the standard rate established by IC 42-202.3 (1.0cfs/50 acres). I recommend that the license is issued with a maximum instantaneous rate of 0.04cfs for the irrigation of 2.1 acres.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.1 \text{ acres} \times 4.5 \text{ AF/acre} = 9.5 \text{ AF annually}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} \times 260 \text{ Days} \times 1.9835 = 20.6 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{9.5 \text{ AF annually}}$$

2. Volume Calculations for Other Uses: NA

Comments/Recommendation: The two baseball fields are a combined GIS measured 2.1 acres of irrigation. I recommend that the license is issued with an annual volume of 9.5 AF for the irrigation of 2.1 acres per the field headgate standard calculation above.

G. NARRATIVE/REMARKS/COMMENTS

The Department received the Proof of Beneficial Use for permit 57-11985 on October 27, 2023, submitted and signed by Rob Sauer, Superintendent. In section 3 of the proof the permit holder stated that beneficial use was developed for the irrigation of 10 acres. On April 3, 2025, a field examination was conducted with Dan Aberasturi (named contact) as an escort. Permit 57-11985 is for supplemental irrigation from groundwater within the place of use (POU) overlapped by rights held by Gem Irrigation District.

The wellhead POD is on the west side of the baseball fields. Surface water is delivered to the permitted POU using a separate system using a pumping station in the NE corner of the permitted POU. The baseball fields north of the school are irrigated using groundwater delivered via a 2" PVC main line and distributed through the 4 control valve boxes south of field #1 and in the warmup area between fields #1 & #2. The escort stated that water is diverted using a 5 Hp submersible pump set at a depth of approximately 100 ft. A GIS measurement found approximately 2.1 acres of the 10-acre permitted place of use (POU) lies within the fence line surrounding the two baseball fields, which are the only areas irrigated by groundwater. The permit holder stated that the Gem Irrigation District shares held by the School District are not adequate to cover the irrigated areas, leading to the school seeking this permit. Correspondence with Carl Seider at Gem Irrigation District confirmed that they have no concerns with the school irrigating the baseball fields using only the groundwater source.

Although the system can in theory divert a rate of 0.15cfs (0.07cfs/acre) the licensed rate should be limited by the beneficial use developed and the standard rate established by IC 42-202.3. I recommend the license is issued with a maximum rate of 0.04cfs for the irrigation of 2.1 acres (0.02cfs/acre), and an annual volume of 9.5 AF per the headgate calculation in section F of this report.

I recommend the license is issued with conditions 943, WB7, R61, 01M, and 103. Permit condition 121 should be replaced with license condition 103 at licensing. 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	03/01 to 11/15	0.04 CFS	9.5 AF

Totals: 0.04 CFS 9.5 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 Bob Howe Date _____

Reviewer [Signature] Date 10/02/2025

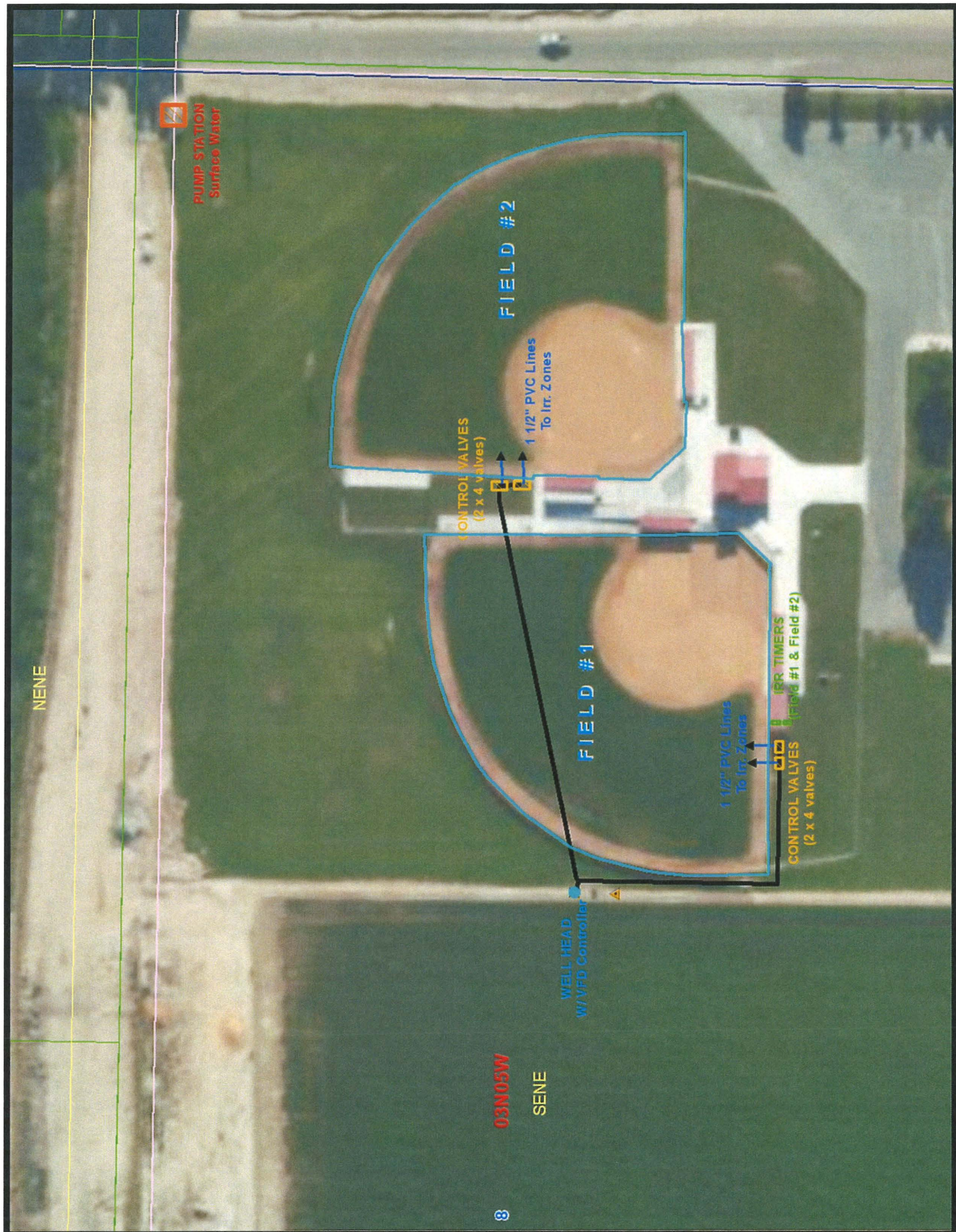


Figure 1- SYSTEM DIAGRAM- Further details for irrigation zones are in photos of the layout on the wall at the controllers.



Photo 1- The VFD and power supply on the left of the well head. The drain valve is in the white pipe closest to the casing and the main shutoff valve is in the white pipe on the left of the drain in the image.

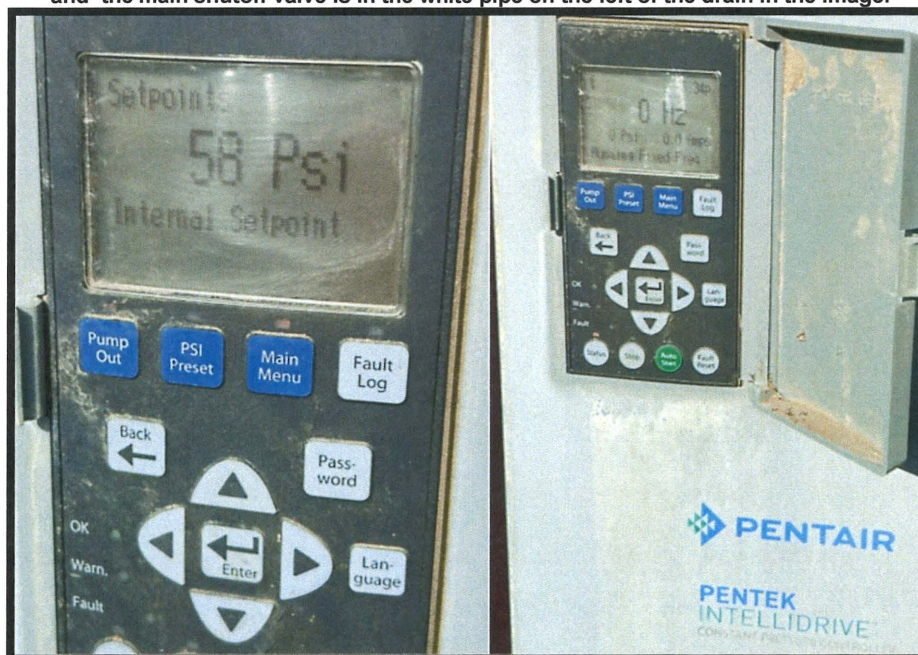
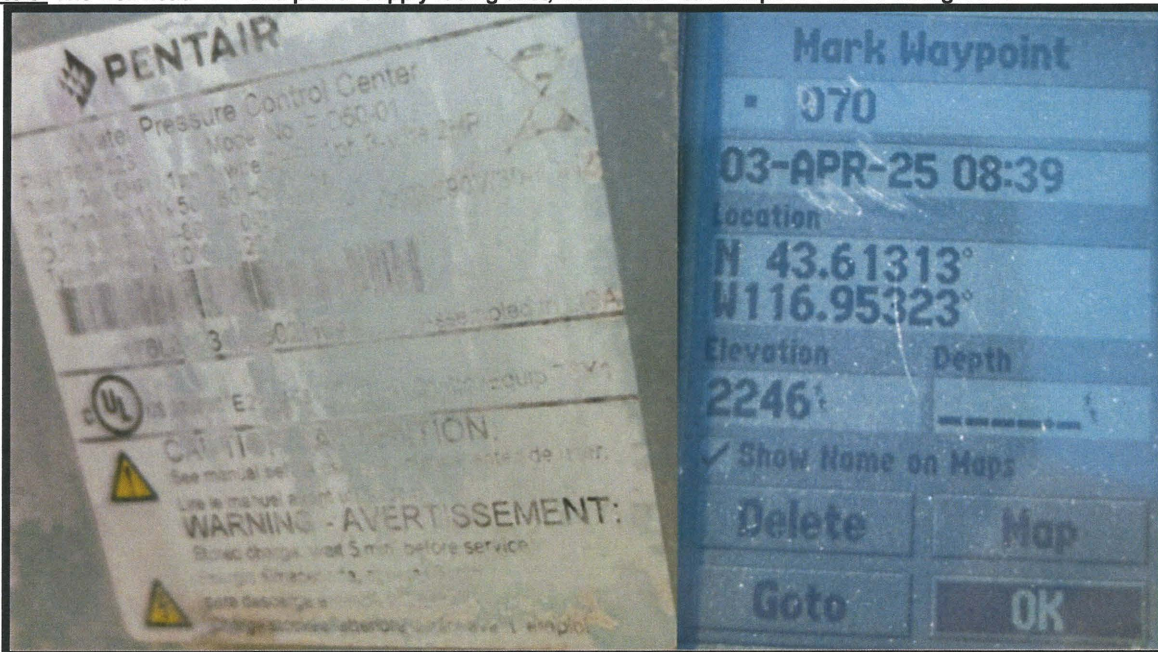


Photo 2- The VFD is a Pentek Intellidrive P-1050-01. The operational pressure set point is 58psi. Although the escort stated that the well has artesian flow, that was not indicated in the well drillers report and the static pressure was displayed before running the system.



Photo 3- The well head VFD and power supply facing east, both fields' backstops are in the background.



Photos 4 & 5- The specifications label on the VFD (left) and the GPS coordinates taken at the well head (right).



Photo 6- Field #1- the control valve boxes for the field are on the other side of the fence line (circled blue). The irrigation timers for both fields are in the “clubhouse” adjacent to the valve boxes.



Photos 7 & 8- The control valve boxes for field #1, with 4 valves in each.

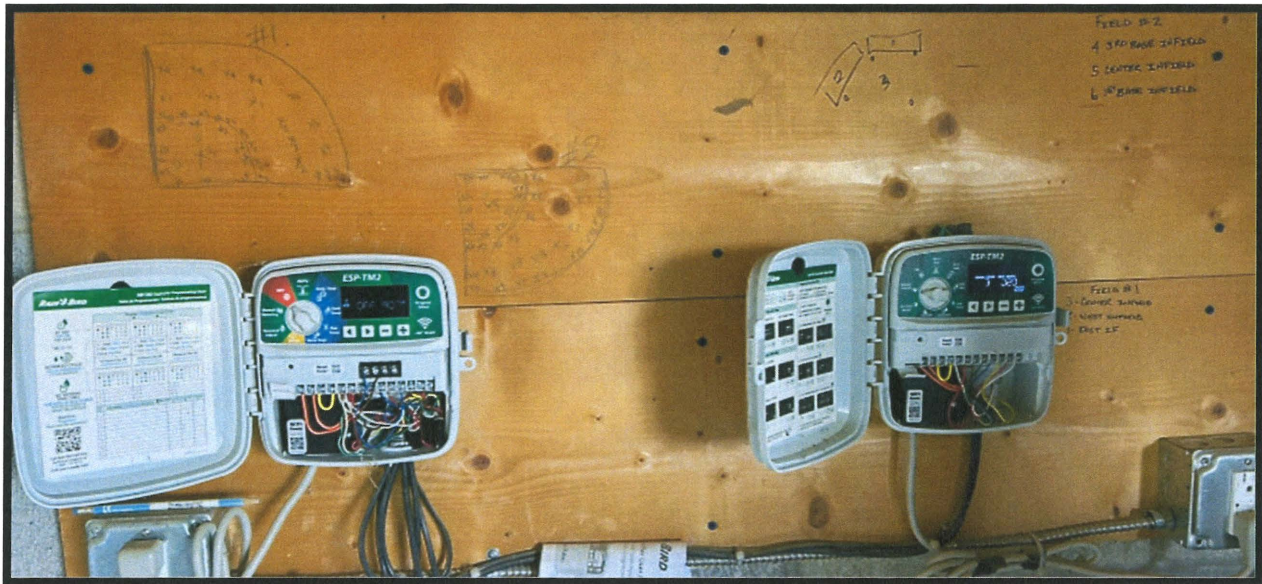
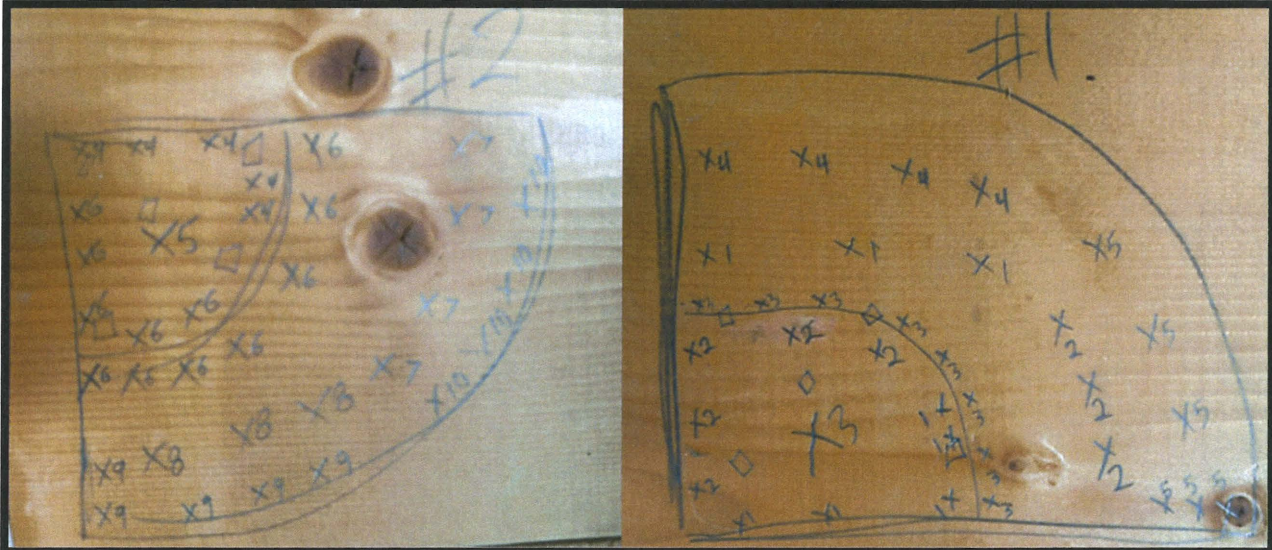


Photo 9- The irrigation timers for both fields located inside the clubhouse with diagrams of the zone layouts.



Photos 10 & 11- Diagrams of the zone layouts for each field, as drawn on the clubhouse wall.



Photos 13 & 14- The control valve boxes for field #2, with 4 valves in each.



Photo 15- The valve boxes for field #2 with 4 valves in each.



Photo 16- Field #2 taken at the northwest corner.



Photo 16- Field #2 taken at the southeast corner.



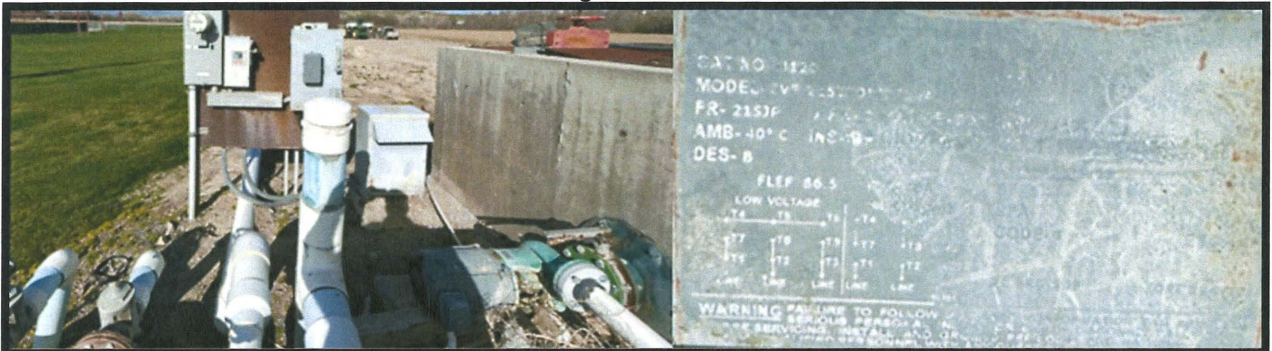
Photo 17 & 18 (above)- Running zones 6 and 3 in field #1.



Photo 19- Hunter T-25 sprinkler heads found throughout the baseball fields.



Photos 20 & 21- Surface water pumping station in the northeast corner of the parcel. Providing irrigation to all areas surrounding the baseball fields.



Photos 22 & 23- Pump station and pump spec. tag.



Photo 24- Rain Bird Model 2045A Maxi-paw sprinkler heads found in the fields surrounding the baseball fields and in the strip between the fields.

CORRECTED

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

WATER RESOURCES
WESTERN REGION**1. WELL TAG NO. D** 0080308Drilling Permit No. 888356 ✓Water right or injection well # 57-11985**2. OWNER:**Name Homedale School District #370Address 116 East Owyhee Ave.City Homedale State ID Zip 83628**3. WELL LOCATION:**Twp. 3 North ☒ or South ☐ Rge. 5 East ☐ or West ☒Sec. 8 1/4 SE 1/4 NE 1/4Gov't Lot _____ County OwyheeLat. N- 43 ° 36.789 (Deg. and Decimal minutes)Long. W- 116 ° 57.193 (Deg. and Decimal minutes)Address of Well Site 3437 Johnstone Rd
City Homedale, ID 83628

(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
<u>3 bentonite chip</u>	<u>0</u>	<u>38</u>	<u>2,000 #</u>	<u>dry pour</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>6</u>	<u>4</u>	<u>48</u>	<u>2.50</u>	<u>Steel</u>	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 48**9. PERFORATIONS/SCREENS:**Perforations ☐ Y ☐ N Method _____Manufactured screen ☐ Y ☐ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule

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

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) 6' Static water level (ft) 3'6"Water temp. (°F) 72 Bottom hole temp. (°F) 72Describe access port well cap - top of casing**Well test:**

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
<u>39</u>	<u>60</u>	<u>150</u>

Test method:Pump ☒ Bailor ☐ 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
<u>10</u>	<u>0</u>	<u>3</u>	<u>top soil</u>		☒
<u>10</u>	<u>3</u>	<u>14</u>	<u>gravel</u>	☒	
<u>10</u>	<u>14</u>	<u>32</u>	<u>brown clay</u>		☒
<u>10</u>	<u>32</u>	<u>48</u>	<u>blue clay</u>		☒
<u>8</u>	<u>48</u>	<u>144</u>	<u>blue clay</u>		☒
<u>8</u>	<u>144</u>	<u>145</u>	<u>hard clay stone-blue</u>		☒
<u>8</u>	<u>145</u>	<u>163</u>	<u>blue clay</u>		☒
<u>8</u>	<u>163</u>	<u>178</u>	<u>gray clay</u>	☒	
<u>8</u>	<u>178</u>	<u>245</u>	<u>blue clay</u>		☒
<u>8</u>	<u>245</u>	<u>268</u>	<u>gray clay</u>		☒
<u>8</u>	<u>268</u>	<u>305</u>	<u>gray clay-hard drilling</u>		☒
<u>8</u>	<u>305</u>	<u>348</u>	<u>gray clay</u>		☒
<u>8</u>	<u>348</u>	<u>350</u>	<u>gray shale stone</u>	☒	
<u>8</u>	<u>350</u>	<u>375</u>	<u>gray clay</u>		☒
<u>8</u>	<u>375</u>	<u>378</u>	<u>gray shale stone</u>	☒	
<u>8</u>	<u>378</u>	<u>458</u>	<u>gray clay</u>		☒
<u>8</u>	<u>458</u>	<u>510</u>	<u>blue clay-black sand layers</u>		☒

Completed Depth (Measurable): 510'Date Started: 11-15-2018 Date Completed: 12-15-2018**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 Dufree Well Drilling Co. No. 399*Principal Driller [Signature] Date 1-4-2019

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Re: Additional Information Requested

From Dan Aberasturi <daberasturi@homedaleschools.org>

Date Mon 4/7/2025 6:14 AM

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

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.

The well depth is 520 feet and the pump is set at 100 feet

On Fri, Apr 4, 2025 at 8:46 AM Howe, Bob <Bob.Howe@idwr.idaho.gov> wrote:

Hi Dan,

Thank you for meeting with me yesterday. As I mentioned yesterday, I need additional information to process the water right license for the Middle School. Please provide the pump set depth, so that I can complete the field examination review.

Feel free to reach out with any questions or concerns.

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

Scheduling Field Exam for Water Right Permit No. 57-11985

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

Date Mon 3/24/2025 2:48 PM

To daberasturi@homedaleschools.org <daberasturi@homedaleschools.org>

 3 attachments (744 KB)

Proof Report.pdf; relinquishment-of-permit-1.pdf; notice-of-change-of-water-right-ownership-1-1.pdf;

From: Howe, Bob

Sent: Monday, March 24, 2025 2:42 PM

To: ddenney@homedaleschools.org

Subject: Scheduling Field Exam for Water Right Permit No. 57-11985

Dear Permit Holder:

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

The above-referenced permit authorizes **0.20 CFS** 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.

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

Scheduling Field Exam for Water Right Permit No. 57-11985

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

Date Mon 3/24/2025 2:42 PM

To ddenney@homedaleschools.org <ddenney@homedaleschools.org>

 3 attachments (744 KB)

Proof Report.pdf; relinquishment-of-permit-1.pdf; notice-of-change-of-water-right-ownership-1-1.pdf;

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Regards,

Bob Howe



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WATER RESOURCES

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