

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33575
Exam Date: 05/24/2022

1. Current Owner:
DUAYNE DIDERICKSEN 5453 WILLEAN LN EAGLE ID 83616 AND
LEE DIDERICKSEN 5453 WILLEAN LN EAGLE ID 83616
2. Accompanied by: DUAYNE DIDERICKSEN
Phone No: 208-866-5678
Address: 5453 WILLEAN LN EAGLE ID 83616
Relationship to permit holder: Permit holder

3. **SOURCE:**
GROUND WATER

Method of Determination: Aerial photography and site visit

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 SE¼ NW¼, Sec. 29, Twp 05N, Rge 01E, B.M. ADA County

Method of Determination: Aerial photography, well log, and site visit

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	29								3.6									3.6

Total Acres: 3.6

Method of Determination: Aerial photography and site visit

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.
- N/A 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
434488	Franklin Electric	15	236 6038 120	Franklin Electric	5 inches

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: None taken**E. FLOW CALCULATIONS**N/A Additional Computation Sheets AttachedMeasured Method: Following IDAPA Beneficial Use Exam Rules 35.01.(r) no measurement was taken.

Irrigation	0.11 cfs
Permitted Total Rate	0.20 cfs
<u>License Recommendation</u>	<u>0.11 cfs</u>

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.6 \text{ acres} \times 4.5 \text{ AFA} = 16.2 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \text{ cfs} \times 259 \text{ days} \times 1.9835 = 56.50$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 16.2 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted on May 24, 2022, by Water Right Agent, Marcelina Williams and was accompanied by Mr. Didericksen during the field exam. Mr. Didericksen is the property owner and permit holder. The permit was issued on March 01, 2012, and proof of beneficial use was submitted on January 20, 2022.

Two points of diversion (POD) location were confirmed. One for the irrigation portion of the right in the SENW QQ of Sec 29, T05N, R01E and the other for domestic use in the NENW QQ of Sec 29, T05N, R01E. The irrigation POD has 15 HP Franklin Electric pump and motor and is attached to a 3 inch mainline those transitions into a 2-inch main line halfway through the irrigated area. The pump and motor information for the domestic well is unknown by the current homeowner due to the well being drilled for the pervious landowner. Due to both PODs having separate systems a water right split was performed resulting in 63-35508. This right will hold the domestic use and a portion of irrigation. Water right overlap review indicates no other water uses for the PODs of these rights. No amendment required to correct the legal description of the PODs.

The permit authorizes a total of 0.20 cfs for irrigation and domestic use. Within SENW and NENW QQ of Sec 29, T05N, R01E 10 acres of irrigation is permitted. Within the permitted POU domestic use and a total of 4.4 acres for irrigation was developed. Development of 3.6 acres within the SENW QQ of Sec 29, T05N, R01E POU area associated with the POD in that legal description. The irrigated acres have 3 rows of 7 impact 40 sprinklers and are attached to a Rainbird control system in the well house. The 0.8 irrigated acres around the home is controlled via a Hunter irrigation control box in the garage of the home. ArcMap tools and aerial imagery, supported by photos taken during the field exam, were used to verify the POU area. No amendment required to correct the legal description of the POU.

For water right 63-33575 condition 103 replaced condition 121, and R69 replaced R65 per department standards. Conditions X01, 26A,046, and 01M were removed at licensing. Conditions X60,004,165, and two written in conditions were carried over at licensing per department standards.

For water right 63-35508 condition 103 replaced condition 121, and R69 replaced R65 per department standards. Conditions 165, 26A, 046, and 01M were removed at licensing. Conditions X60, 004, 046, X01, 930, and a written condition were carried over at licensing per department standards.

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	0.11 CFS	16.2 AF
<u>Totals:</u>		0.11 CFS	16.2 AF

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

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

Marcelina Williams -

Field Examiner's Name Marcelina Williams Date 12/18/23

Reviewer [Signature] Date 12/19/2023

DELIVERY SYSTEM DIAGRAM

Water Right No. 63-33575



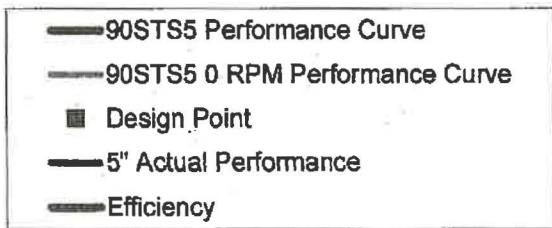
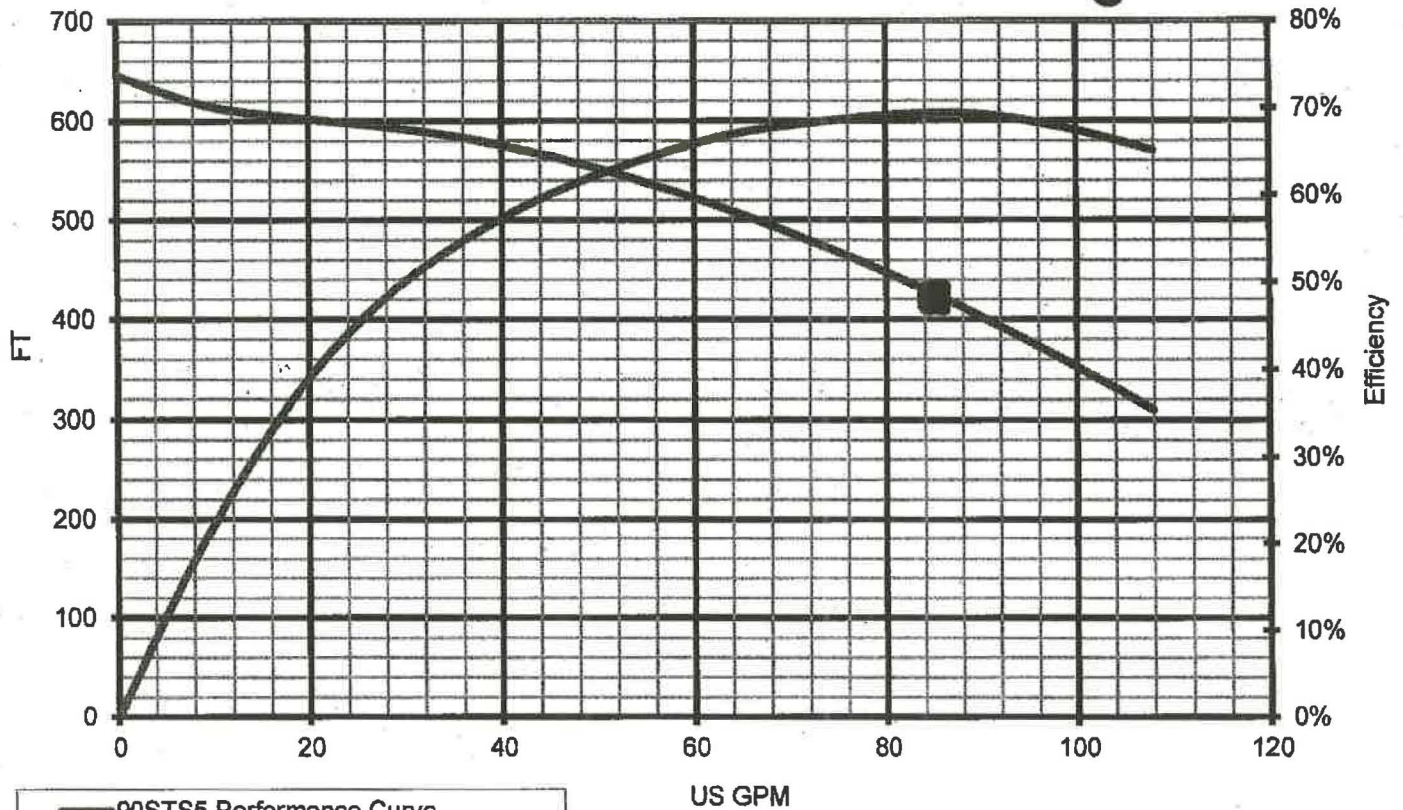


Franklin Electric

Bluffton, Indiana 46714 • www.franklin-electric.com

90 STS 5" Pump Performance

85gpm @ 420TDH



Max Power on Curve: **13.2 HP**

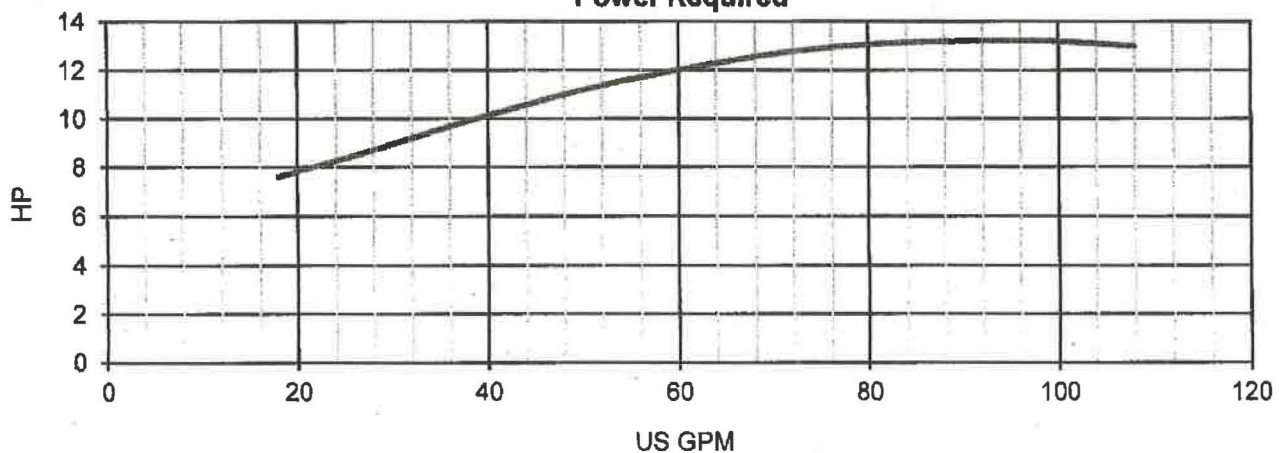
Motor Selection: **6in 5-40HP**

11 A trim impellers

0 B trim impellers

0 C trim impellers

Power Required





91



Flow (gpm)	8.66	9.69	10.6	11.5
Diameter at 1.5 ft ht (ft)	111	115	119	123
Diameter at 6.0 ft ht (ft)	118	124	128	130
#16 Nozzle (1/4")				
Flow (gpm)	11.4	12.8	14.0	15.1
Diameter at 1.5 ft ht (ft)	117	123	129	133
Diameter at 6.0 ft ht (ft)	126	131	136	138
#18 Nozzle (9/32")				
Flow (gpm)	14.2	15.9	17.4	18.8
Diameter at 1.5 ft ht (ft)	124	129	139	144
Diameter at 6.0 ft ht (ft)	132	137	144	147
#20 Nozzle (5/16")				
Flow (gpm)	17.1	19.2	21.0	22.7
Diameter at 1.5 ft ht (ft)	130	137	146	153
Diameter at 6.0 ft ht (ft)	137	143	151	155
#22 Nozzle (11/32")				
Flow (gpm)	20.5	22.9	25.1	27.1
Diameter at 1.5 ft ht (ft)	133	148	157	162
Diameter at 6.0 ft ht (ft)	141	150	159	164
#24 Nozzle (3/8")				
Flow (gpm)	23.9	26.7	29.3	31.6
Diameter at 1.5 ft ht (ft)	138	151	160	169
Diameter at 6.0 ft ht (ft)	145	155	164	170

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Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available. Consult factory for specific performance data. Stream heights range from 8.5 to 15.5 ft above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft.

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IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D D0064329

Drilling Permit No. 90270-808229
Water right or injection well # 63-33575

2. OWNER:

Name Duayne Didericksen
Address 5453 Willeen Ln.
City Eagle State Idaho Zip 83616

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 1 East ☒ or West ☐
Sec. 29 1/4 SE 1/4 NW 1/4

Gov't Lot _____ County Ada
Lat. 43 44.686°N (Deg. and Decimal minutes)
Long. 116 22.022°W (Deg. and Decimal minutes)
Address of Well Site Same

(Give at least name of road or distance to road or landmark) City Eagle
Lot. _____ Blk. _____ Sub. Name Highlander Est.

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
3/8" Bentonite	0	113	2850 lbs.	10" Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	1.5	335	.250	Steel	☒	☐	☐	☒
5"	331	336	.258	Steel	☐	☒	☐	☒
5"	356	359	.258	Steel	☐	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 335'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type Johnson
Method of installation Pullback

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
336	346	.015	10'	5"	Stainless	304
346	356	.015	10'	5"	Stainless	304

Length of Headpipe 5.0 Length of Tailpipe 2.6

Packer ☒ Y ☐ N Type Rubber K-Packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
N/A				

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) _____ Static water level (ft) 210'

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

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
287'	60 GPM	2 HRS.
320'	100 GPM	2 HRS.

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
12"	0	2	Top Soil		X
	2	6	Brown Sand		X
	6	40	Brown Sandy Clay		X
	40	113	Brown Sand w/ Clay Streaks		X
8"	113	180	Brown Sand w/ Clay Streaks		X
	180	240	Brown Sandy Clay		X
	240	250	Sandy Brown Clay		X
	250	255	Sand	X	
	255	270	Brown Clay		X
	270	282	Sand	X	
	282	298	Sandstone	X	
	298	328	Coarse Sand	X	
	328	339	Sandstone	X	
	339	358	Coarse Sand	X	
	358	359	Brown Clay		X

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JUN 04 2013

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 359'

Date Started: Apr 11, 2013 Date Completed: May 6, 2013

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 Dennis Phipps Well Drilling Inc Co. No. 332

*Principal Driller Mark Phipps Date May 7, 2013

*Driller _____ Date _____

*Operator II Bonnie Date May 7, 2013

Operator I D.B.R. Date May 7, 2013

* Signature of Principal Driller and rig operator are required.

63
Form 235-1
09/2010

✓
Drilling Permit No. 06270-868229
Drilling Permit I.D. Tag No. D0064329
Water Right Permit No. 63-33575
Injection Permit No. _____

State of Idaho
Department of Water Resources
APPLICATION FOR DRILLING PERMIT
(FOR THE CONSTRUCTION OF A WELL)

1. Property Owner (please print): Duayne Didericksen

2. Current Mailing Address: 5453 Willelan Lane

City: Eagle State: Id. Zip Code: 83616 Telephone: (208) 866-5678

3. Proposed Well Location: Twp. 5N, Rge. 1E, Sec. 29, 1/4 SE 1/4 NW 1/4

Gov't Lot No. _____ County Ada Lat. 43° 44.686' N Long. 116° 22.022' W

Street Address of Well Location Same City Eagle

Lot, block and subdivision Lt. _____; Blk. Highlander Estates
Give at least name of road + Distance to Nearest Road or Landmark

4. Proposed Use of Well: (Note: Any well drilled for a Public Water Supply requires prior DEQ approval.)

☒ DOMESTIC (42-111a): The use of water for homes, organization camps, public campgrounds, livestock and for any other purpose in connection therewith, including irrigation of up to 1/2 acre of land, if the total use is not in excess of 13,000 gpd.

☐ DOMESTIC (42-111b): Any other use if the diversion rate does not exceed 0.04 cfs (18 gpm) and a diversion volume of 2500 gpd.

NON-DOMESTIC: ☒ Irrigation ☐ Municipal ☐ Industrial ☐ Public Water Supply
☐ Commercial ☐ Other _____
(Describe)

☐ INJECTION

☐ MONITORING: A well bore schematic and map is required. No. of proposed wells: _____

5. Well Construction Information:

A. ☒ New well ☐ Modify ☐ Deepening ☐ Replace Previous Well # _____

B. Proposed Casing Diameter 8" Proposed Maximum Depth 500'

C. Anticipated bottom hole temperature:

☒ 85°F or less ☐ 85°F to 212°F ☐ 212°F or more
(Cold Water Well) (Low Temp. Geo. Well) (Geothermal Well)

6. Construction Start Date: April 10, 2013

7. Drilling Company Name: Dennis Phipps Well Drilling Inc. Driller's Lic. No. 332

NOTE: The actual well driller must be identified prior to drilling.

8. Applicant's Signature: Duayne Didericksen Date: April 10, 2013

Title: Owner

Address (if different than owner): _____

City: _____ State: _____ Zip Code: _____ Telephone: _____

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APR 10 2013
WATER RESOURCES
WESTERN REGION

ACTION OF THE DEPARTMENT OF WATER RESOURCES

This Permit is APPROVED Date 4-10-13

If approved, this permit authorizes the construction or modification of a well subject to the following conditions. **READ CAREFULLY!**

GENERAL CONDITIONS:

1. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one(1) year from the approval date for completion of the well unless an extension has been granted.
2. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare, which may be required before construction of the well. All wells must be drilled a minimum distance of 100 feet from a drain field. Domestic and Public Water Supply wells must be drilled a minimum of 50 feet and 100 feet respectively from a septic tank.
3. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit and the well ID tag at the drilling site.
4. Approval of this drilling permit does not authorize trespass on the land of another party.
5. This permit does not constitute other local, county, state, or federal approvals which may be required for construction of a well.
6. This drilling permit does not represent a right to divert and use the water of the State of Idaho. If the well being drilled is associated with approved water right(s) use of the well must comply with conditions of said water right(s).
7. If the depth of this well exceeds 500 feet or the well is in an area known to have LTG water, bottom hole temperature must be measured and recorded on the Driller's Log, and reported on the Well Driller's Report.
8. If a bottom hole temperature of 85°F or greater is encountered, well construction shall cease and the well driller shall contact the Department immediately.
9. Idaho Code, S 55-2201 - 55-2210 requires the applicant and/or his contractors to contact "Digline" (DigLine is a one-call center for utility notification) not less than 2 working days prior to the start of any excavation for this project. The "DigLine" Number for your area is 1-800-342-1585.
10. The stainless steel I. D. tag must be securely and permanently attached to the well casing by the Driller upon completion of the well, and prior to removing the drill rig from the drill site and must remain permanently attached above ground level for the life of the well. The well tag shall be attached by welding at least 3 sides or using four (4) stainless steel, closed-end pop rivets.
11. Any well being replaced by a new well shall be properly abandoned by the well driller prior to removing the drilling equipment, unless otherwise authorized by the department.

SPECIFIC CONDITIONS:


Signature of Authorized Department Representative


Title

Receipt No. W041019 Received by RS Fee 125- Date 4-10-13

EXTENSION OF DRILLING PERMIT

Extension approved by _____ Approval Date _____

This extension expires: _____

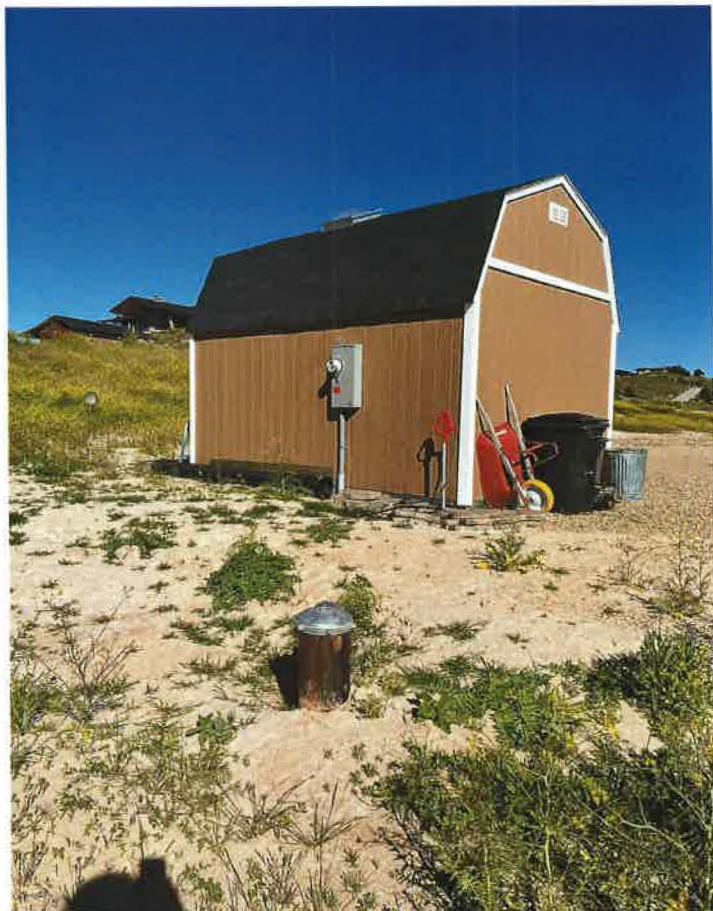


Fig. 1 – Location of POD and well control house .View looking west.

GPS'd at:

43° 44' 41" N

116° 22' 1" W



Fig. 2 – Well tag of POD reading D0064329



Fig. 3 – Electric control for the pump and motor in well house.



Fig. 4 – Close up of the pump and motor information.



Fig. 5 – Part of the well disruption pipes in the well house .



Fig. 6 – Rain Bird irrigation control box in the well house.



Fig. 7 & 8 - Irrigated acres in the POU. View looking NW.





Fig. 9 – Irrigation sprinkler for irrigated acres.



Fig. 10 – Close up of irrigation system component.