

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-12006
Exam Date: 12/27/2024

1. Current Owner:
DESERT FARMS REAL ESTATE LLC 8222 DESERT DR MARSING ID 83639-8264
2. Accompanied by: Dale Van Es
Phone No: 208-250-0478
Address: 8222 Desert Dr. Marsing, ID 83639
Relationship to permit Holder: Owner of permit 57-12006

3. **SOURCE:**
GROUND WATER

Method of Determination: Drillers Reports, ArcMap

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
57-11673	Groundwater	Stockwater/Commercial	Permit
2-10465	Snake River	Stockwater	Permit
2-10243	Snake River	Irrigation	License
2-10242	Snake River	Irrigation	License
2-10241	Snake River	Irrigation	License
2-10240	Snake River	Irrigation	License
2-10239	Snake River	Irrigation	License
2-10238	Snake River	Irrigation	License
57-2254	Groundwater	Irrigation	Decreed

Comments: Above listed water rights or permits are partial or full overlaps in place of use to this water right and are currently owned by Desert Farms Real Estate LLC. Gem Irrigation District also has some permits and rights that partially overlap the place of use. These do not interfere with this water right since the nature of use differs.

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

Water Right No.	Source	Purpose of Use	Basis
57-11673 (SESE and SENW Wells)	Groundwater	Stockwater / Commercial	License
57-2254 (SESE Well)	Groundwater	Irrigation	Decreed

Comments: The above-listed water rights or permits share a point of diversion with this water right and are also owned by Desert Farms Real Estate LLC. Right 57-2254 allows a diversion rate of 1.09cfs from Well 1 while right 57-11673 allows a diversion rate of 2.1 cfs from all three wells.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

Well 1: GROUND WATER SE¼ SE¼, Sec. 17, Twp 02N, Rge 04W, B.M. OWYHEE County **43 30'09"N 116 49'56"W**
 Well 2: GROUND WATER SE¼ NW¼, Sec. 28, Twp 02N, Rge 04W, B.M. OWYHEE County **43 28'49"N 116 49'22"W**
 Well 3: GROUND WATER SE¼ NW¼, Sec. 28, Twp 02N, Rge 04W, B.M. OWYHEE County **43 28'51"N 116 049'26"W**

Method of Determination: Field examination, OnX GPS

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	
02N	04W	29													X				X
02N	04W	28										X	X						

PLACE OF USE: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	04W	20	X			X												X	
02N	04W	29	X	X	X	X									X	X		X	
02N	04W	21		X	X		X	X	X	X	X	X	X	X		X	X		
02N	04W	28		X			X	X	X	X	X	X	X						
02N	04W	16										X	X						
02N	04W	17													X	X	X	X	

Method of Determination: Field examination, ArcMap satellite 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

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0039444	Franklin Electric	60	Unknown	Yaskawa P1000	IWI953090130002
D0038653	Franklin Electric	60	18L19-29-000238	Danfoss VLT 8000 Aqua	Unknown
D0057983 (Well 1)	Unknown	75	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NA	NA	NA	NA	NA	NA	NA

2. Measurements: No flow measurements taken during the field examination. The distribution system includes a buried mainline.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Theoretical well pump calculations:

$$D0039444: (8.8 * 60 \text{ hp} * 0.70) / [251 \text{ ft} + (60 \text{ psi} * 2.31)] = 369.6 / 389.6 = 0.95 \text{ CFS}$$

$$D0057983: (8.8 * 60 \text{ hp} * 0.70) / [549 \text{ ft} + (60 \text{ psi} * 2.31)] = 369.6 / 687.6 = 0.54 \text{ CFS}$$

$$D0038653: (8.8 * 60 \text{ hp} * 0.70) / [381 \text{ ft} + (60 \text{ psi} * 2.31)] = 369.6 / 519.6 = 0.71 \text{ CFS}$$

Total wells capacity: 2.20 cfs

Theoretical storage pond pump output:

$$(8.8 * 25 \text{ hp} * 0.60) / [10 \text{ ft} + (80 \text{ psi} * 2.31)] = 132 / 194.8 = 0.67 \text{ cfs}$$

WR 57-11673 licensed a rate of 2.10 cfs. Volume calculations use 0.10 cfs difference in well capacity developed for WR 57-12006 to deliver additional volume.

F. VOLUME CALCULATIONS

Volume Calculations for Stockwater and Commercial uses:

Stockwater:

$$5400 \text{ milkers} * 0.0391 = 211.1 \text{ AFA}$$

$$800 \text{ dry} * 0.0134 = 10.7 \text{ AFA}$$

$$211 \text{ AFA} + 11 \text{ AFA} = 222 \text{ AFA}$$

Stockwater calculation is derived from standardized volumes, measured in gallons per day, for both dairy and dry cattle from table 6 of the Field Examiners Handbook. This information is shown in figure 25.

$$0.10 \text{ cfs} * 1.9835 * 365 = \mathbf{72.4 \text{ AFA}}$$

The calculated diversion rate of 0.10 cfs, applied throughout the year, totals 72.4 AFA

Commercial:

$$\frac{44.8 \text{ gpm} * 144 \frac{\text{min}}{\text{day}} * 365 \text{ days}}{325,850} = 7.2 \text{ AFA}$$

Commercial volume is calculated with the understanding that 0.10cfs is utilized in the milking bay for 144 minutes per day, equating to 10% of the time that the milking bay is in use.

24-hour fill allowance:

Pond capacity, including surface and ground water from all three wells.

$$0.62\text{-acre surface area} * 0.4 * 15 \text{ ft max depth} = 3.72 \text{ AF}$$

$$\text{Ground water 24-hour diversion: } 2.2 \text{ cfs} * 1.9835 = 4.36 \text{ AF/day}$$

$$\text{Surface water 24-hour diversion under WR 2-10576: } 2.48 \text{ cfs} * 1.9835 = 4.92 \text{ AF/day}$$

G. NARRATIVE/REMARKS/COMMENTS

A field examination was conducted on December 27, 2024, for permit number 57-12006 for commercial and stockwater. This appointment was accompanied by Dale Van Es, the owner of the permit and Desert Farms LLC. Permit 57-12006 was issued on August 7, 2019, and allows for a total of 2.1 cfs for both commercial and stockwater. This permit is used in conjunction with permit 2-10576 which utilizes 2.48 cfs for stockwater. The application for permit proposed no additional rate but rather increased volume to supplement WR 57-11673, which licensed 2.1 cfs and 327 AFA.

The system includes a storage pond (figure 6) which is authorized for storage of both surface and groundwater under the 24-hour rule. Groundwater from the three wells and surface water are stored in this pond, which supplies water to the 42 watering troughs for stockwater. The wells associated with this permit also supply water directly to the milk barn. Located on the west end of the pond, a 25hp pump directs stored water to the 42 watering troughs that are dispersed throughout 14 corrals. The application for permit states that they are seeking supplemental volume for an expansion to the existing dairy.

Item E demonstrates the total capacity of the three points of diversion to be calculated at 2.20cfs. This permit was supplemental to WR 57-11673 with a licensed volume of 327 annual acre-feet. During the development period, the maximum number of livestock included 5400 dairy cattle and 800 replacements, leaving the maximum annual volume for stockwater at a total of 222 acre-feet. This volume is previously covered in full by WR 57-11673 and 2-10465.

An annual volume for commercial use was included in WR 57-11673, though it excludes the nine fire hoses used in the milking bay, which is covered by right 57-12006. During the field examination, it was determined that the intermittent use of the hoses during milking hours would equate to the volume of one hose running continuously for 10% of the milking shift. An annual commercial volume was calculated in Item F based off this information. All other fixtures, such as Clean-in-Place unit and hand washing sinks, are accounted for by WR 57-11673.

Condition 121 will be replaced with 103 per department standards. Conditions 26A, 046, 082, and 106 were removed as they were only necessary during the construction and development periods. Right numbers 2-10465, 57-12006, and 57-11673 are limited to a combined diversion rate of 3.85 cfs and an annual diversion volume of 334 AF, under condition X35.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
STOCKWATER	01/01 to 12/31	0.10 CFS	72.4 AFA
COMMERCIAL	01/01 to 12/31	0.10 CFS	7.2 AFA

Totals:

0.10 CFS

79.6 AFA

2. Recommended Amendments

_____ Change P.D. as reflected above _____ Add P.D. as reflected above X None

_____ Change P.U. as reflected above _____ Add P.U. as reflected above X None

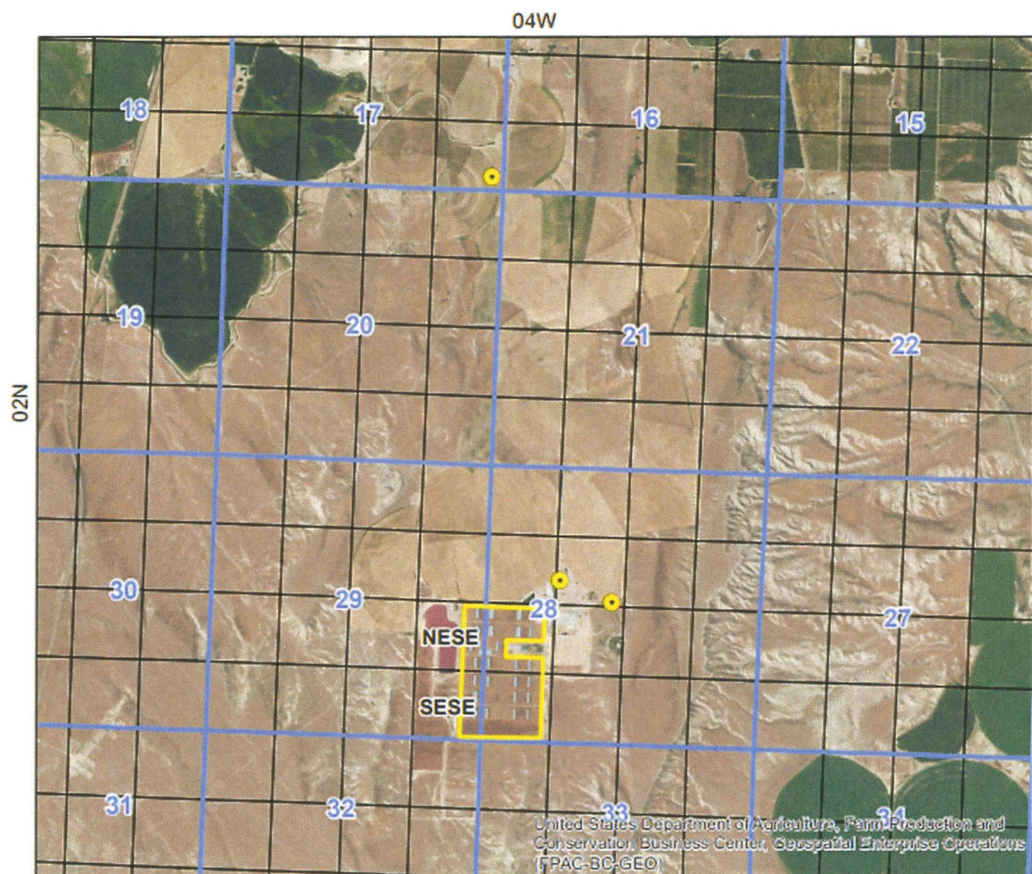
I. AUTHENTICATION

Kate Englund - Water Resource Agent

Field Examiner's Name Kate Englund Date 12/30/2024Reviewer  Date 08-11-2025

State of Idaho
Department of Water Resources
Attachment to Water Right
57-12006

This map depicts the STOCKWATER place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Place Of Use Boundary
- Point of Diversion
- State Outline
- Townships
- PLS Sections
- Quarter Quarters

Figure 1 Map showing the stockwater place of use and points of diversion.

State of Idaho
Department of Water Resources
Attachment to Water Right
57-12006

This map depicts the COMMERCIAL place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

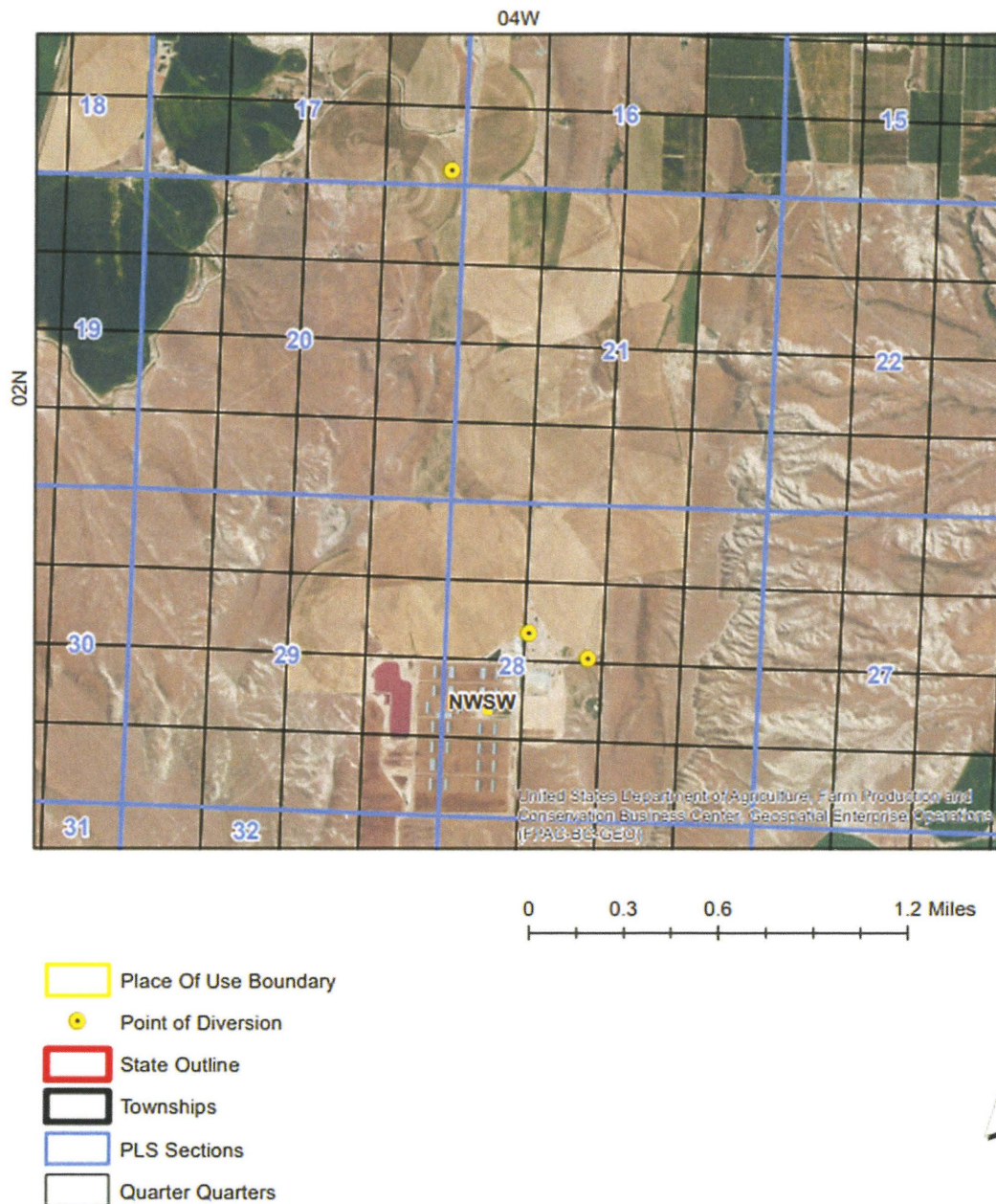


Figure 2 Map showing commercial place of use and points of diversion.

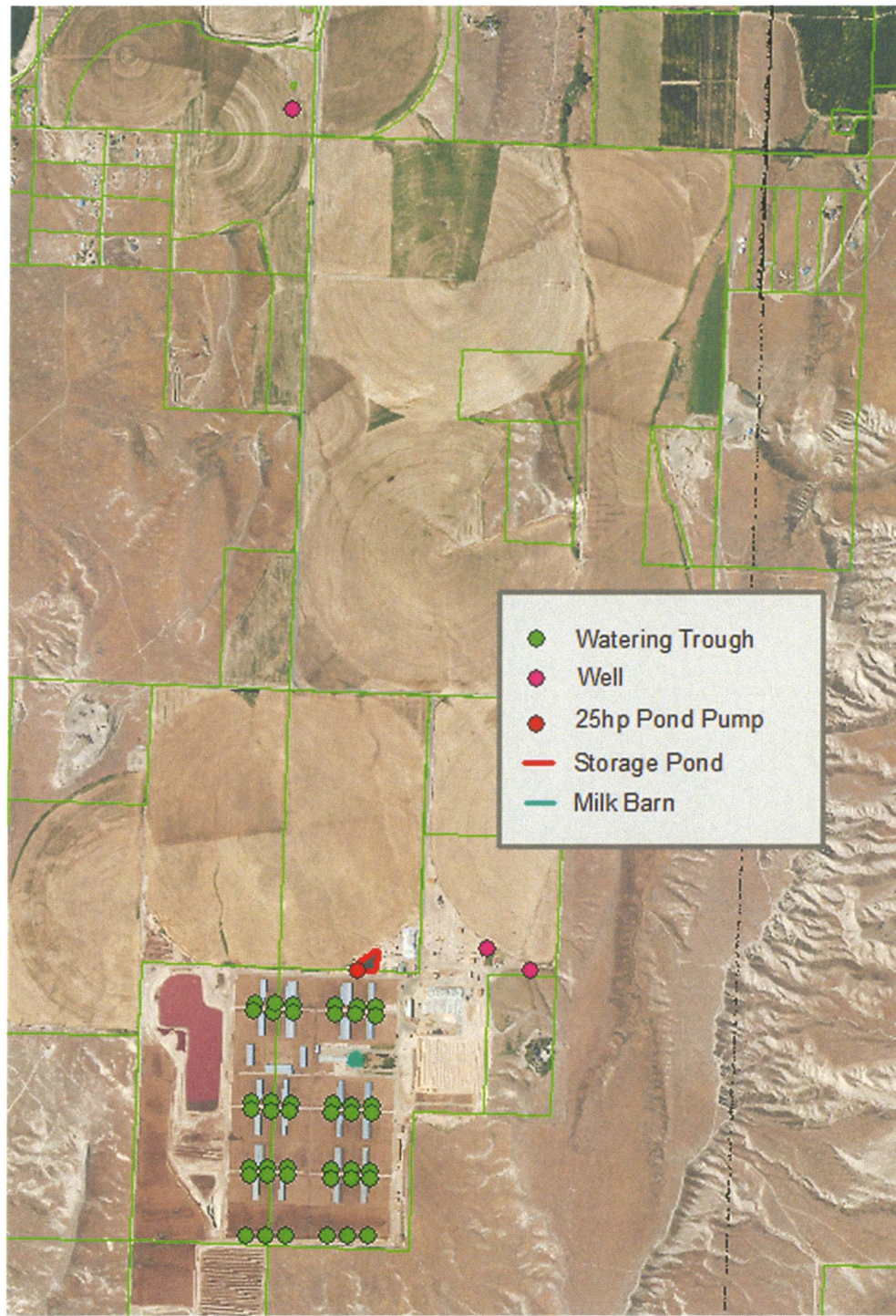


Figure 3 System diagram showing POD locations, water trough locations, storage pond, and milk barn.

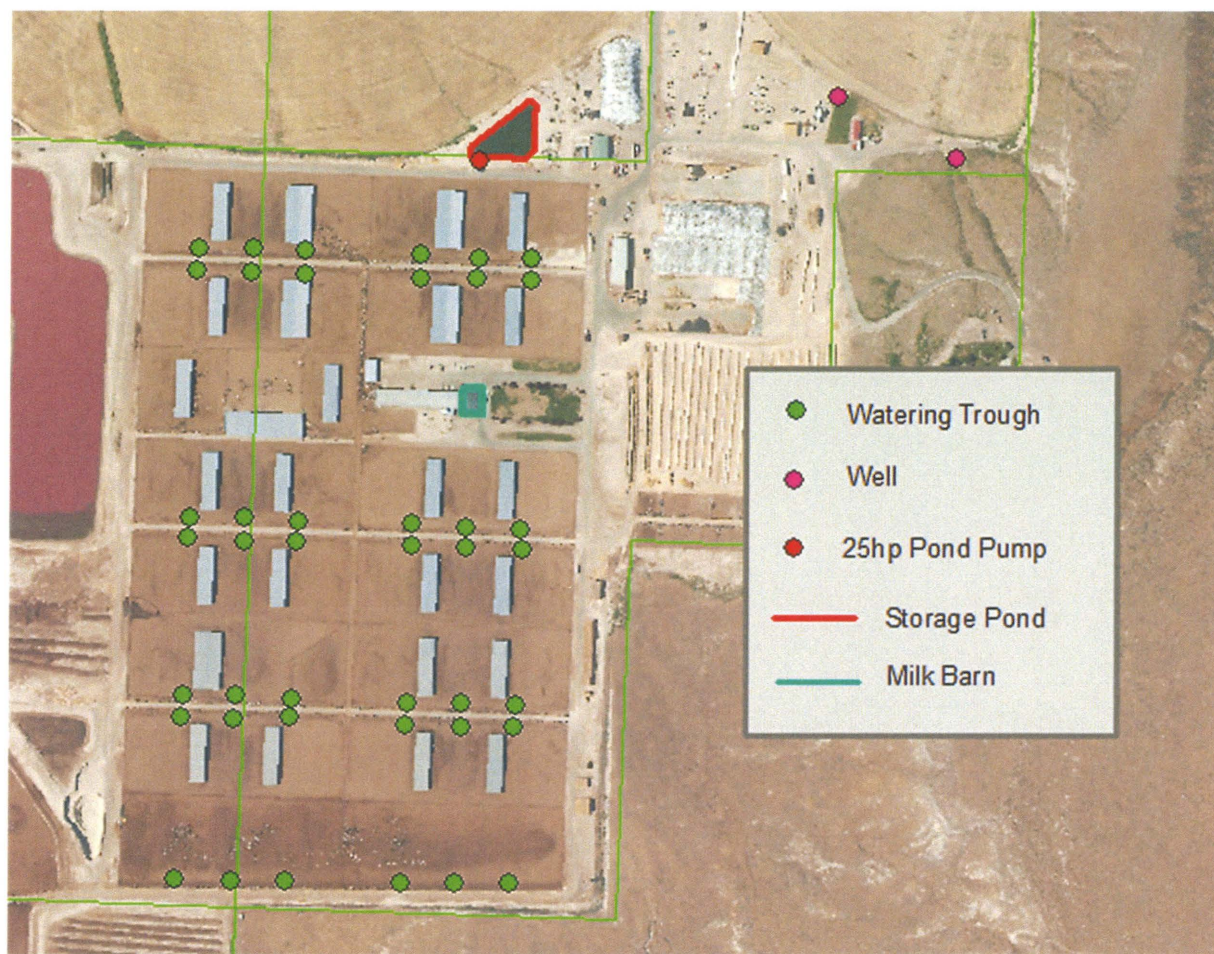


Figure 4 System diagram showing POD locations, water trough locations, storage pond, and milk barn. Photo excludes the Northern well to show a closer view of the place of use.



Figure 5 Storage pond located in 02N 04W SWNW $\frac{1}{4}$ of Section 28. Pond stores both ground and surface water.

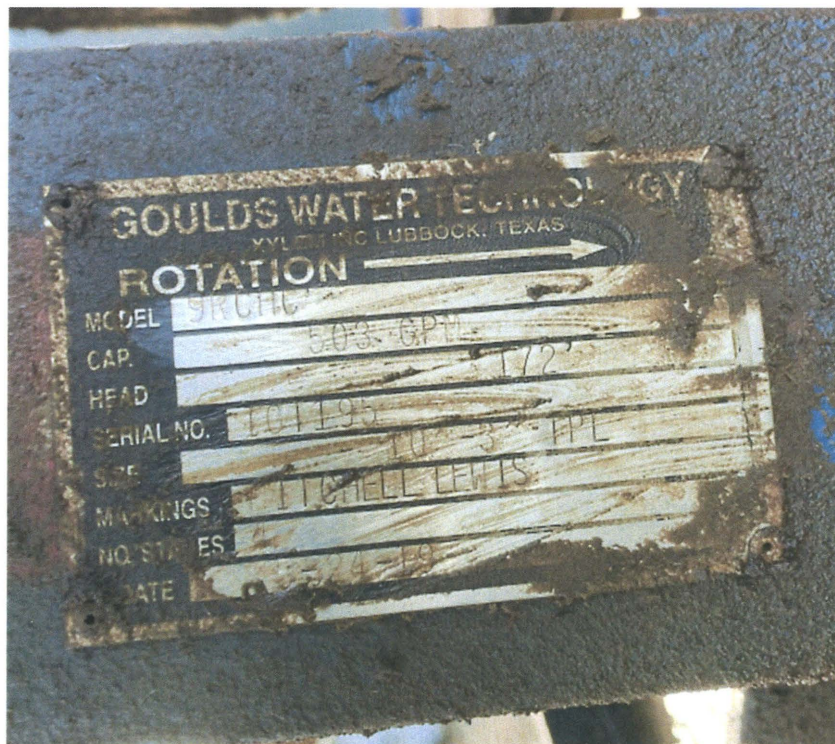


Figure 6 Pump motor tag for pump located at outlet of storage pond.



Figure 7 Pump tag for 25hp pump associated with storage pond.

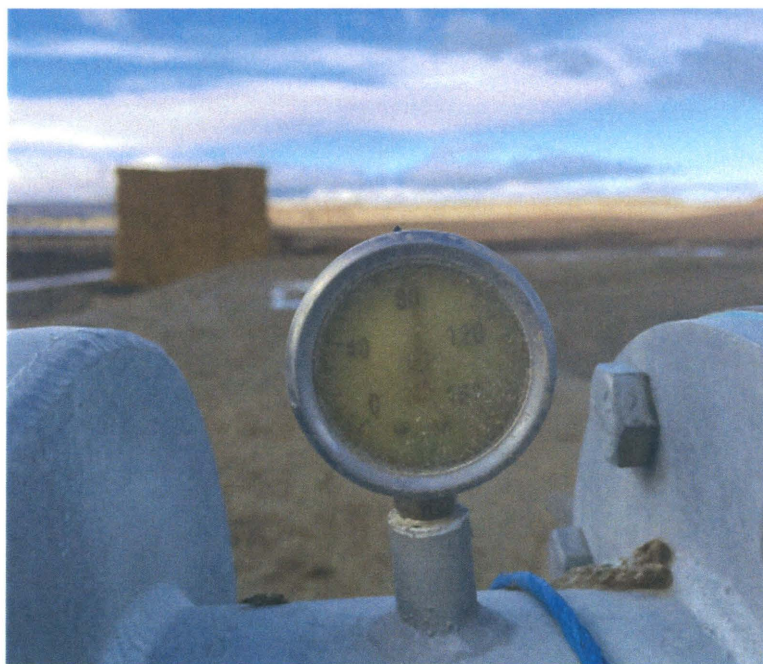


Figure 8 Pressure gage showing a current pressure of 80 psi on storage pond pump.

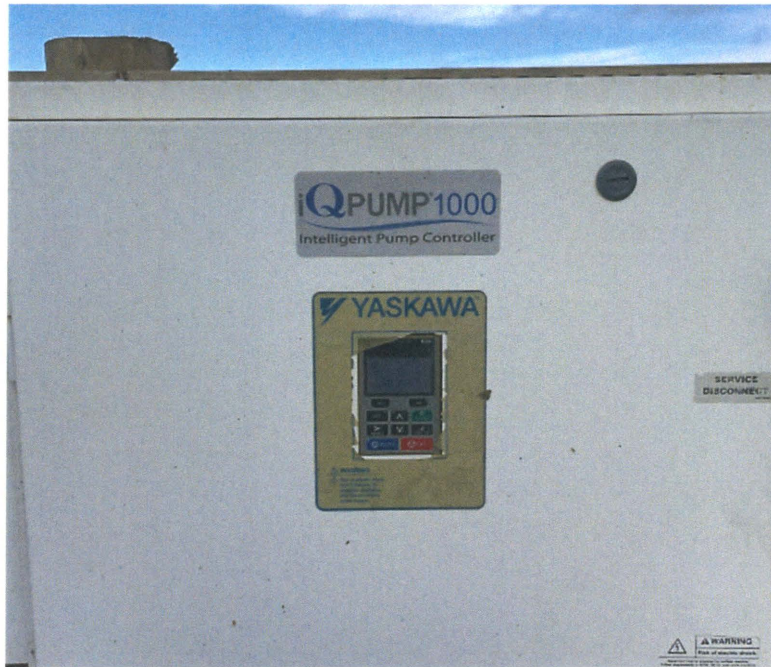


Figure 9 Yaskawa iQump 1000 pressure controller for storage pond pump.

Model 9RCHC 1000 GPM

GOULDS PUMPS

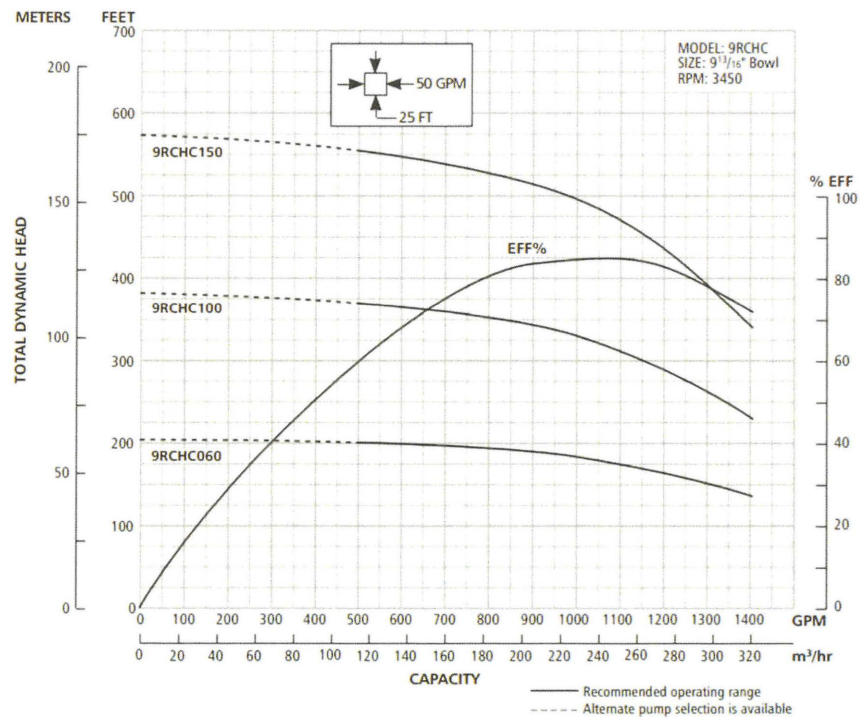


Figure 10 Pump curve for Goulds 9RCHC showing 60% efficiency for 500 gpm capacity, used for theoretical calculation in item E.



Figure 11 Well tag for D0038653 for stockwater and commercial use.

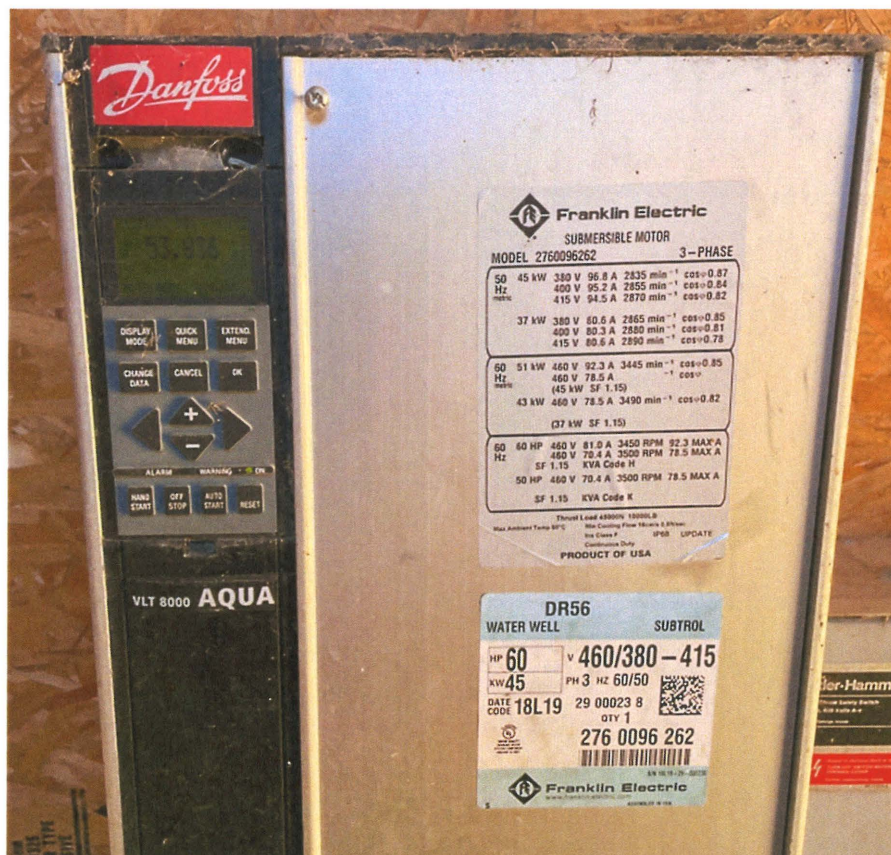


Figure 12 Well D0038653 pump control panel and specification tag for 60hp Franklin Electric submersible motor.

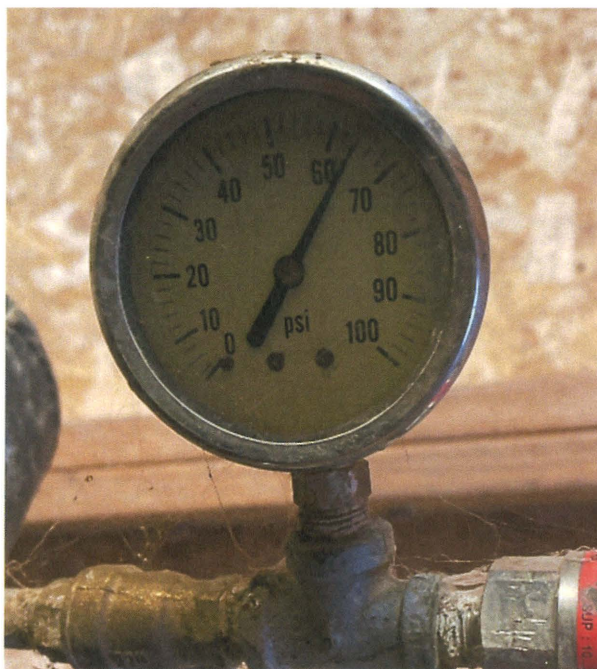


Figure 13 Pressure gage for well D0038653 reading 60 psi at time of field examination.



Figure 14 Tag to well D0039444 for stockwater and commercial use.

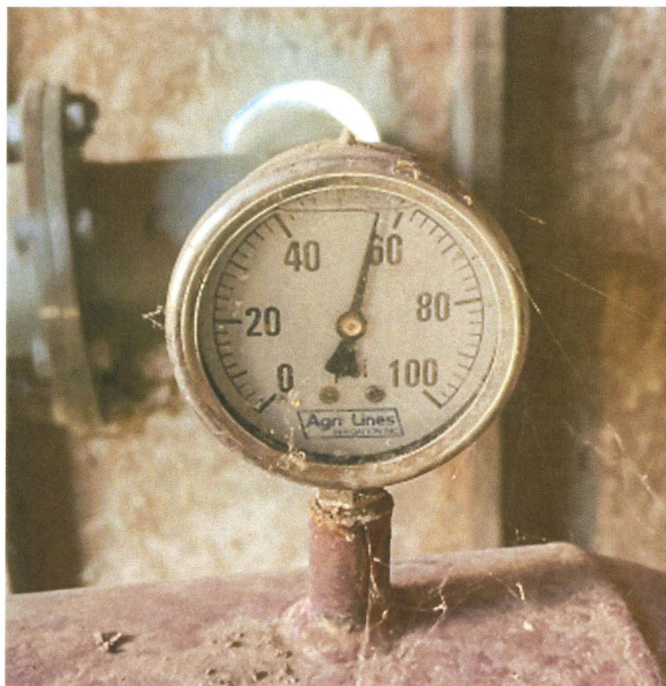


Figure 15 Pressure gage to well D0039444 reading 58 psi at the time of the field examination.

		Franklin Electric			
		SUBMERSIBLE MOTOR			
		MODEL 2760096262		3-PHASE	
50 Hz metric	45 kW	380 V	96.8 A	2835 min ⁻¹	cosφ 0.87
		400 V	95.2 A	2855 min ⁻¹	cosφ 0.84
		415 V	94.5 A	2870 min ⁻¹	cosφ 0.82
37 kW		380 V	80.6 A	2865 min ⁻¹	cosφ 0.85
		400 V	80.3 A	2880 min ⁻¹	cosφ 0.81
		415 V	80.6 A	2890 min ⁻¹	cosφ 0.78
60 Hz metric	51 kW	460 V	92.3 A	3445 min ⁻¹	cosφ 0.85
		460 V	78.5 A		cosφ
	(45 kW SF 1.15)				
43 kW		460 V	78.5 A	3490 min ⁻¹	cosφ 0.82
	(37 kW SF 1.15)				
60 Hz	60 HP	460 V	81.0 A	3450 RPM	92.3 MAX A
		460 V	70.4 A	3500 RPM	78.5 MAX A
	SF 1.15	KVA Code H			
50 HP		460 V	70.4 A	3500 RPM	78.5 MAX A
	SF 1.15	KVA Code K			
		Thrust Load 45000N 10000LB			
		Max Ambient Temp 50°C			
		Min Cooling Flow 16cm ³ /s 0.5ft ³ /sec			
		Ins Class F		IP68	
		Continuous Duty		UPDATE	
		PRODUCT OF USA			

Figure 16 Franklin Electric Submersible Motor specification tag associated with well D0039444.

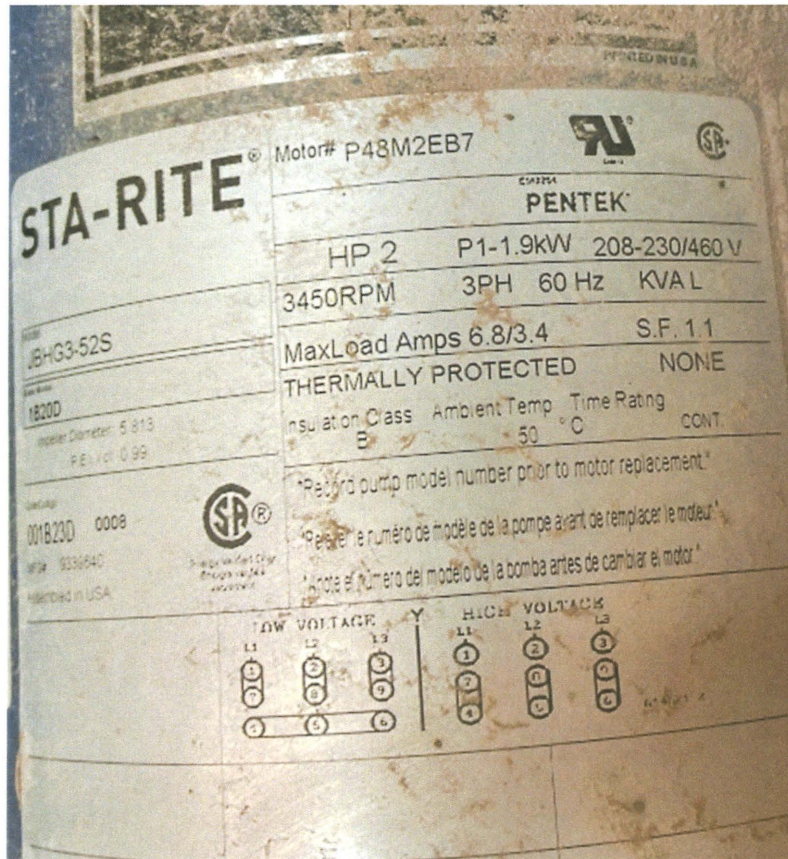


Figure 17 Specification tag for 2hp booster pump on well D0039444.

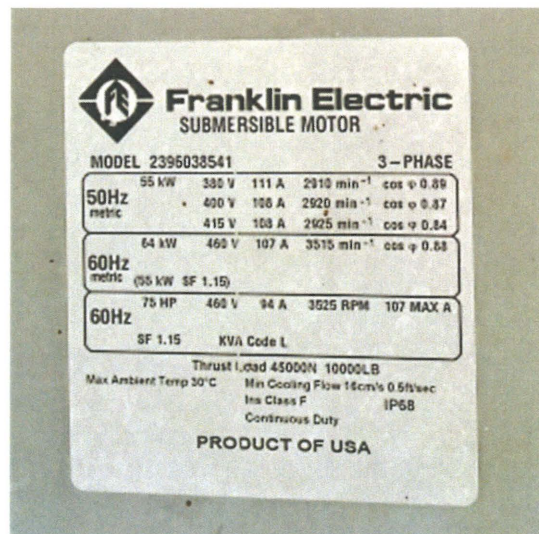


Figure 18 Franklin Electric Submersible Motor for D0039444.

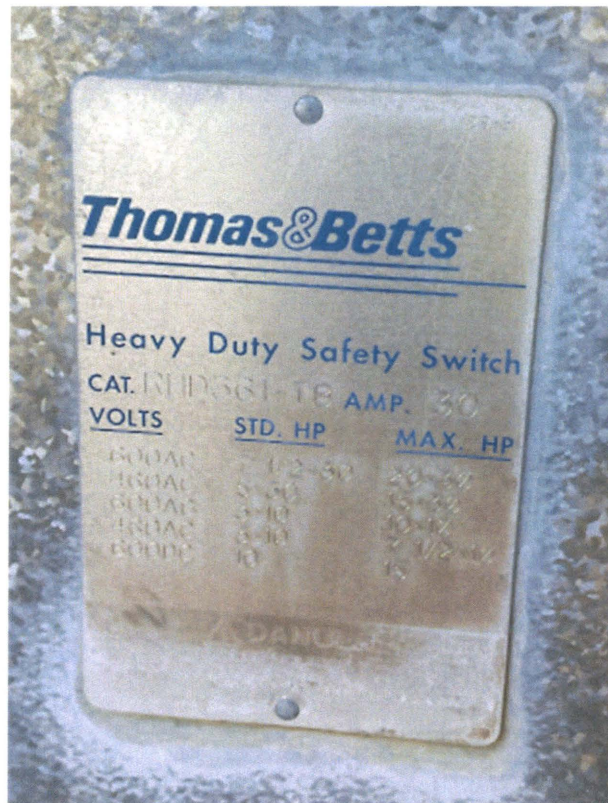


Figure 19 From D0039444.



Figure 20 Clean-in-Place system and milk transfer lines.



Figure 21 3' x 9' water trough. There are 42 identical troughs located throughout the dairy.



Figure 22 Milking bay featuring nine, 1" hoses with a Gilmour brand rear control cleaning nozzle.

Connection Style	NH
Manufacturers Part Number	517-102
Gallons per Minute	22 gal/min
Brand	Moon American

Figure 23 Specifications for a 1" fire hose fog nozzle from Moon American, similar in size and stream pattern to the Gilmour Brand nozzles used by Van Es Dairy.

Volume

- a) for livestock use @ 12 gpd/hd, N (0.0134).
- b) for dairy use @ 35 gpd/hd, N (0.0391).

Figure 24 Standardized stockwater volume for dairy and dry livestock from Table 6 of the Field Examiners Handbook. Volumes are used in Item F to determine a stockwater volume for WR 57-12006.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

834313

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 0039444

DRILLING PERMIT NO. **889332-834313**

Other IDWR No. _____

2. OWNER:

Name **Dale Van Es**

Address **8222 Desert Dr.**

City **Marsing** State **ID** Zip **83639**

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W E S
Twp. **2** North ☒ or South ☐
Rge. **4** East ☐ or West ☒
Sec. **28** 1/4 SE 1/4 NW 1/4
Gov't Lot _____ County **Owyhee** 10 acres 40 acres 160 acres
Lat: _____ Long: _____
Address of Well Site **8222 Desert Dr.**
City **Marsing**

(Give at least name of road + distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK: check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____ (Replacement etc.)

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☒ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES:

Seal/Filter Pack			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	250	5500 lbs	Overbore

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

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Guage	Material	Casing	Liner	Welded	Threaded
8"	+3	709	.250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☐ Perforations Method _____
☒ Screens Screen Type **Johnson SS**

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
754	709	.020		8"	SS	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

252 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: **Cap**

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
200	600	600	4 Hrs.

Water Temp. **75** Bottom hole temp. **75**

Water Quality test or comments: _____

Depth first Water Encounter **442**

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	
15"	0	2	Top Soil	Y	N
15"	2	6	Brown Cliche		
15"	6	18	Tan Clay		
12"	18	173	Tan Clay		
12"	173	194	Sticky Blue Clay		
12"	194	442	Baked Blue Clay		
12"	442	459	Baked Blue Clay w/Cracks	X	
12"	459	476	Baked Blue Clay		
12"	476	485	Baked Blue Clay w/Cracks	X	
12"	485	581	Baked Blue Clay		
12"	581	584	Baked Blue Clay w/Cracks	X	
12"	584	619	Baked Blue Clay		
12"	619	622	Fractured Blue Clay	X	
12"	622	670	Baked Blue Clay		
12"	670	672	Fractured Blue Clay	X	
12"	672	748	Baked Blue Clay		
12"	748	751	Fine to Med. Blue Sand	X	
12"	751	769	Hard Baked Blue Clay		
12"	769	770	Brown Rylite		

RECEIVED

SEP 07 2005

WATER RESOURCES
WESTERN REGION

Completed Depth **754** (Measurable)

Date: Started **8/9/2005** Completed **9/1/2005**

13. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name **Treasure Valley Drilling** Firm No. **560**

Firm Official _____ Date **9/2/2005**

and _____

Driller or Operator **Dale Van Es** Date **9/2/2005**

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

SENW

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

828086

1. WELL TAG NO. D 0038653

Drilling Permit No. **886711 - 828086**

Water right or injection well # **57-11673**

2. OWNER

Name **Dale & Jackie Van Es**

Address **8222 Desert Drive**

City **Marsing** State **ID** Zip **83639**

3. WELL LOCATION:

Twp. **2** North ☒ or South ☐ Rge. **4** East ☐ or West ☒

Sec. **28** 1/4 **SE** 1/4 **NW** 1/4
10 acres 40 acres 160 acres

Gov't Lot _____ County **Owyhee**

Lat. **43** ° **28.846'** (Deg. and Decimal minutes)

Long. **116** ° **49.364'** (Deg. and Decimal minutes)

Address of Well Site **8222 Desert Drive**

City **Marsing**

(Give an exact name of road + distance to Road or Landmark)

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection

☒ Other **Commercial - Dairy Barn**

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ 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
Grout	25'	1010'	2000 gals.	Poured
Cement	0	25'	300 gals.	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	+2'	1010'	.250	Steel	☒	☐	☐	☒
6"	994'	1035'	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) **1010'**

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type **Johnson**

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
1035'	1055'	.020		6"	SS	

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) **1030 ft.** Static water level (ft) **303 ft.**

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

Describe access port **Cap**

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
NO	PUMP	TEST	☐	☐	☐	☐

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
12"	2'	10'	Brown Clay		X
12"	10'	40'	Tan Clay		X
12"	40'	120'	Tan Clay		X
12"	120'	180'	Blue Shale		X
12"	180'	210'	Gray Shale & Sticky Clay		X
12"	210'	450'	Blue Shale		X
12"	450'	745'	Gray Shale & Sticky Clay		X
12"	745'	800'	Sandy Gray Clay	X	
12"	800'	1010'	Gray Clay		X
8"	1010'	1030'	Gray Clay		X
8"	1030'	1065'	Gray Coarse Sand	X	
8"	1065'	1075'	Gray Clay		X

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MAR 02 2009

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) **1065 ft.**

Date: Started **2/12/2007** Completed **3/28/2007**

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 **Treasure Valley Drilling** Co. No. **560**

*Principal Driller  Date **4/12/2007**

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

SE NW

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) 252

Water temp. (°F) 101 Bottom hole temp. (°F) 114

Describe access port Top of casing + side port

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
380	400	4	☒	☐	☐	☐

Water quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

[illegible]

(Give at least name of road + Distance to Road or Landmark)

Lot. _____ Blk. _____ Sub. Name _____ /

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection

☒ Other Dairy - cows, stock water

☐ New well ☐ Replacement well ☒ Modify existing well
☐ Abandonment ☐ Other

☐ Air Rotary ☐ Mud Rotary ☒ Cable ☐ Other _____

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure

Diameter (nominal)	From (ft)	To (ft)	Gauge/ Schedule	Material	Casing	Liner	Threaded	Welded
12"	+1	200	.250	steel	☒	☐	☐	☒
10"	+1	880	.250	steel	☐	☒	☐	☒
10"	880	1100	.250	steel	☐	☒	☐	☒
8"	1100	1330	.250	steel	☐	☒	☐	☒

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

Perforations ☒ Y ☐ N Method factory + hand tool

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 _____

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

Flowing Artesian? ☐ Y ☐ N Artesian Pressure (PSIG)

Describe control device

Completed Depth (Measurable): 1350

Date Started: 3-14-2011 Date Completed: 6-7-2011

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 Duffee Well Drilling Co. No. 399

*Principal Driller Frank D. Dine Date 6-9-11

*Driller [Signature] Date 6-9-11

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

SESE

Dale Van Es - Darry Well

Tag # D0057983

