

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-14250

Exam Date: 9/23/2014

1. Current Owner:

A CHRISTOPHER TRUE 1265 SOUTH CRANE RD MIDVALE ID 83645 (208) 355-2614 And/Or

VERONICA TRUE 1265 SOUTH CRANE RD MIDVALE ID 83645 (208) 355-2614

2. Accompanied by: Chris True and Zeke HaubrichPhone No: 208-355-3610Address: 1265 S Crane Rd, Midvale, ID 83645Relationship to Permit Holder: Permit holder & ranch operator/son**3. SOURCE: GROUND WATER****B. OVERLAP REVIEW**1. Other water rights with the same place of use: 67-2291, 67-7191, Crane Creek Reservoir Board rights.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 NW¼NW¼ Sec. 26, Twp 12N, Rge 02W, B.M. WASHINGTON County

GROUND WATER NE¼SW¼ Sec. 35, Twp 12N, Rge 02W, B.M. WASHINGTON County

GROUND WATER NW¼SE¼ Sec. 27, Twp 12N, Rge 02W, B.M. WASHINGTON County

GROUND WATER SW¼SW¼ Sec. 26, Twp 12N, Rge 02W, B.M. WASHINGTON County

Method of Determination: Garmin GPS data points collected during exam, PLSS maps and ArcMap

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	02W	26											X						
12N	02W	35									X								

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	02W	22												2.0			1.0		3.0
12N	02W	26						11.0	37.0			32.0	30.0						110.0
12N	02W	27	9.0	29.0	23.0	29.0	37.0	5.0	2.0	34.0	33.0				32.0	25.0		29.0	287.0
12N	02W	34	26.0			3.0													29.0
12N	02W	35						24.0	1.0										25.0

Total Acres: 454

Method of Determination: Areas calculated using ArcMap tools, PLSS mapping and aerial photography.

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
D0015099	US Electric	100	Model # AA76 Catalog # H0100525LG	NA	10" Discharge
D0029055	Dodge Cummings Diesel	125	Johnson Gear Drive Serial # 166180	Goulds	Model # 12DHHHC-4STG 12" Discharge
D0030795	Submersible Franklin Electric	1.5	Unknown	Unknown	1.25" Discharge
D0025990	Submersible Franklin Electric	1.5	Unknown	Unknown	1.25" Discharge

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
GE Panametrics	Ultrasonic Flow Meter	Panametrics	PT878	08447	403 Hz	3/20/2014

2. Measurements: Measurement collected for D0015099 ("Big Pump" well)

E. FLOW CALCULATIONSMeasured Method: Ultrasonic Flow MeterAdditional Computation Sheets AttachedBig Well (D0015099):

Sprinklers on @ exam = 13 guns + 3 wheel lines (21 heads/line)

@ 40 psi => 4.61 gpm/sparkler * 63 sprinklers = 290.4 gpm = 0.65 cfs

34 gpm/gun * 13 guns = 442 gpm = 0.98 cfs

0.65 cfs + 0.98 cfs = **1.63 cfs**Panametrics measured Q = **2.05 cfs**

hp equation =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 151.5 ft.

psi = 65

hp = 100

Q = **2.04 cfs**

Diesel Pump (D0029055):

hp equation =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 384 ft. (well depth) - 100 ft. (static) = 284 ft. => /2 = 142 ft

psi = 65

hp = 125

Q = **2.64 cfs**Total Irrigation diversion: **4.69 cfs.**Stockwater wells:

D0030795:

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 229 ft (static) + 10 ft = 239 ft

psi = 40

hp = 1.5

Q = **0.03 cfs**

D0025990:

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 113 ft. (static) + 10 ft = 123 ft

psi = 40

hp = 1.5

Q = **0.04 cfs**Total Stockwater diversion: **0.07 cfs****F. VOLUME CALCULATIONS****1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 454.0 \text{ acres} * 4.0 \text{ af/acre} = 1,816.0 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 4.69 \text{ cfs} * 231 \text{ days} * 1.9835 = 2,148.9 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \underline{1,816.0 \text{ af}}$$

2. Volume Calculations for Other Uses:

$$800 \text{ range cattle} * 0.0134 = 10.7 \text{ af (per admin processing memo \#3)}$$

G. NARRATIVE/REMARKS/COMMENTS

Information for this exam was gathered from the current owner(s) and Garrett Post, who is the son of the original owner/land owner during the development period.

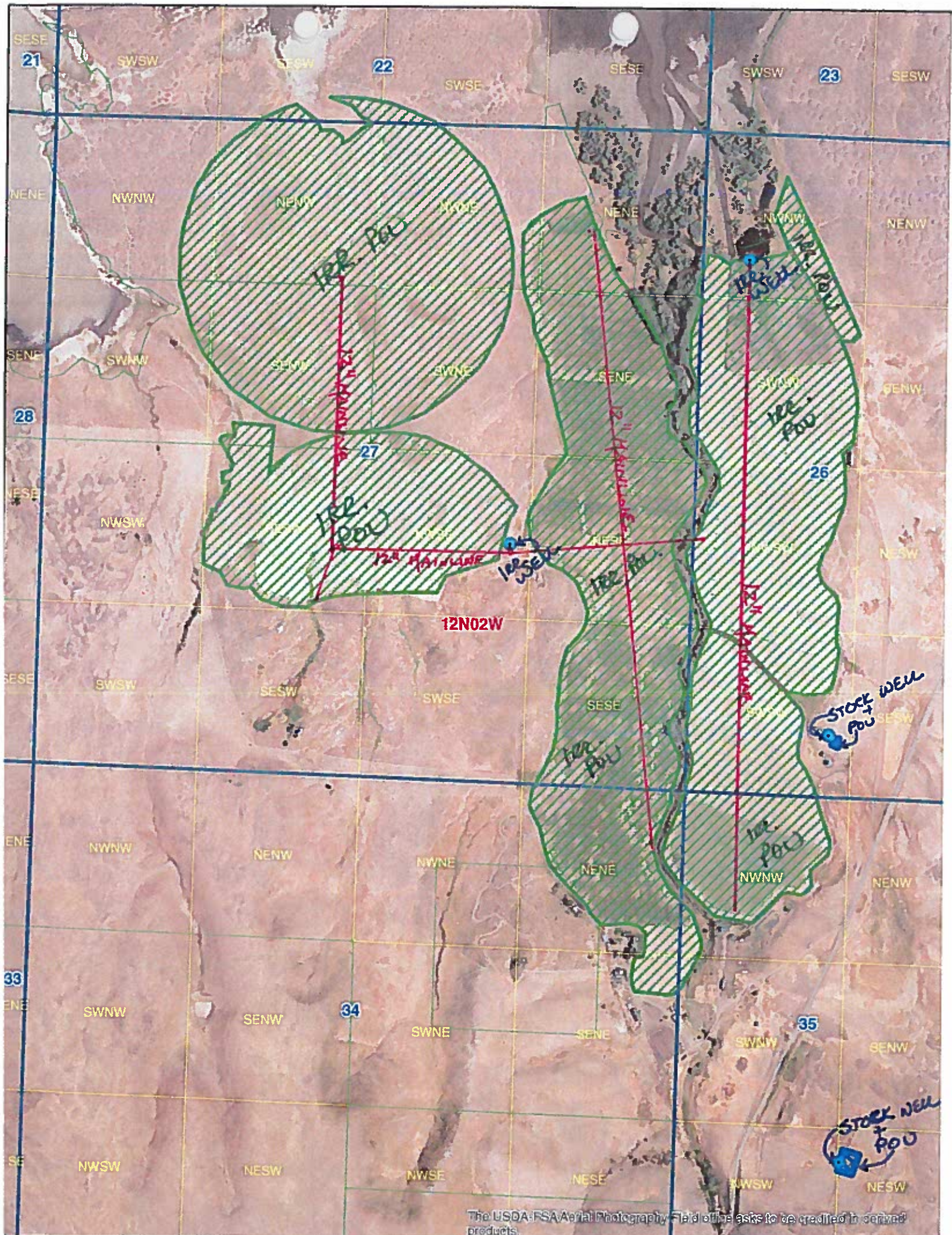
The irrigation system consists of two wells, a 12" mainline with two pivots providing primary irrigation and with wheel lines and end guns providing supplemental irrigation. The irrigation system primarily uses the "Big Pump" (D0015099), but have used both irrigation wells (D0015099 and D0029055) at the same time for irrigation of the property.

Mr. Post indicated Crane Creek Reservoir water was diverted to the acres when available. Mr. True indicated water rarely backs up into the slough for diversion from the reservoir, but is used when available. Mr. True indicated the wells are used more than the surface water (surface water not used on the pivot irrigated acres) due to availability.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 10/31	4.69 CFS	1,816.0 AF
STOCKWATER	01/01 to 12/31	0.07 CFS	10.7 AF
	<u>Totals:</u>	4.760 CFS	1,826.70 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 ☒ Other: Split right based on separate systems.**I. AUTHENTICATION**Field Examiner's Name ANGIE GRIMM Date _____Reviewer PATRICK KELLY Date 11-16-2016



File Title: C:\Users\agrimm\Desktop\LOG03.LOG
 File Name: C:\Users\agrimm\Desktop\LOG03.LOG
 Start Time: 9/23/2014 12:50
 End Time: 9/23/2014 13:01
 Interval: 60
 Records: 11
 Cyclic Flags: 2
 Error Flags: 8208

Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
9/23/2014 12:50	3.996377381	924.2924554	91330.32229	0
9/23/2014 12:51	4.005204821	926.3340884	92227.29488	0
9/23/2014 12:52	3.995953686	924.1944621	93167.53585	0
9/23/2014 12:53	3.983971648	921.4232255	94120.73519	0
9/23/2014 12:54	3.985638171	921.8086631	94986.53804	0
9/23/2014 12:55	3.979203811	920.3205079	95957.68304	0
9/23/2014 12:56	3.992373007	923.3663134	96870.1097	0
9/23/2014 12:57	3.985591029	921.7977601	97795.42198	0
9/23/2014 12:58	3.992673886	923.4359014	98710.32864	0
9/23/2014 12:59	3.97865407	920.1933622	99621.44714	0
9/23/2014 13:00	3.976638471	919.7271893	100547.1246	0

$100547.12 \text{ gal} - 91330.32 \text{ gal} = 9216.8 \text{ gal}/10 \text{ min} = 921.7 \text{ gpm} / 448.83 \text{ gpm/cfs} = 2.05 \text{ cfs}$

Parameters: pipe diameter 10", thickness 0.14", no lining, cast iron pipe, 403 mhz transducers used, water temp entered 80°F, spacing 9.09".

Diagnostics: P Values 468 (up) & 464 (down). Singal strength 64.8 (up) & 64.8 (down). Amplitude 27.7 (up) & 28.0 (down). Sound speed 4936.4 = 82.4°F per user manual.

4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # D0015999 (Tag #, etc.)

OTHER APPLICABLE # WR # 67-14250 (Water right #, etc.)

2. OWNER A. CHRISTOPHER TRUE Phone (208) 355-2614

Address 1265 S. CRANE RD City MIDVALE

State ID Zip 83645 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. N 44° 21.071' Long. W 116° 33.120'

Twp 12 N Rge 02 W Sec 26 ¼ NW ¼ NW

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured 82 °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES DISCHARGE RATE MEASURED WITH GE PANAMATERICS ULTRASONIC
FLOW METER. TEMPERATURE (BASED ON SOUND SPEED) ~ 82°F.
WELL TAG NOT VISIBLE @ EXAM. CONFIRMED LOG CORRECT WITH WELL OWNER.

INSPECTED BY Angel M. Gimm DATE 9/23/14

4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # D0029055 (Tag #, etc.)

OTHER APPLICABLE # WR# 107-14250 (Water right #, etc.)

2. OWNER A. CHRISTOPHER TRUE Phone (208)355-2614

Address 1265 S. CRANE RD. City MIDVALE

State ID Zip 83645 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. N 44° 20.6868' Long. W 116° 33.5400'

Twp 12 N Rge 02 W Sec 27 ¼ NW ¼ SE

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES NO MEASUREMENTS OF WELL @ EXAM. WELL TAG NOT VISIBLE ON CASING.
CONFIRMED LOG CORRECT WITH CURRENT WELL OWNER.

INSPECTED BY Angeli M. Quinn DATE 9/23/14

4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # D0025990 (Tag #, etc.)

OTHER APPLICABLE # WR # 67-14250 (Water right #, etc.)

2. OWNER A. CHRISTOPHER TRJE Phone (208) 355-2614

Address 12605 S. CRANE RD. City MIDVALE

State ID Zip 83645 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes -- use PLS if GPS not available)

Lat. N 44° 20.4534' Long. W 116° 32.9400'

Twp 12 N Rge 02 W Sec 26 ¼ SW ¼ SW

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES NO MEASUREMENTS OF WELL TAKEN @ EXAM. WELL TAG WELDED TO
SIDE OF CASING.

INSPECTED BY

Angela M. Quinn

DATE

9/23/14

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Name Carl Post
Address 1267 S. Crane
City Midvale State ID Zip 83845

Sketch map location must agree with written location.

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

Lt.	Blk.	Sub. Name
-----	------	-----------

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other **stock water**

5. TYPE OF WORK: check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

Seal/Filter Pack			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	110	1000 lbs	overbore

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
Was drive shoe seal tested? ☒ Y ☐ N How? air

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	110	.250	steel	☒	☐	☒	☐
4 1/2	88	168	.188	P.V.C.	☐	☒	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

☐ Perforations Method _____

☒ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
188	208	6x1/4	20	4 1/2	P.V.C.	☐	☒
						☐	☐
						☐	☐

113 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 170-208 ft. Describe access port or control
devices: cap

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 208 (Measurable)
Date: Started 11/15/2002 Completed 11/27/2002

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 12/3/2002

and North Pole

Driller or Operator _____ Date 12/3/2002
(Sign once if Firm Official & Operator)

STOCKWATER WELL IN FRONT OF RENTAL HOUSE (well #3)

4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # D0030795 (Tag #, etc.)

OTHER APPLICABLE # WR # 67-14250 (Water right #, etc.)

2. OWNER A. CHRISTOPHER TRUE Phone (208) 355-2614

Address 1265 S. CRANE RD City MIDVALE

State ID Zip 83645 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. N 44° 19.8942' Long. W 116° 32.8920'

Twp 12 N Rge 02 W Sec 35 ¼ NE ¼ SW

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES NO MEASUREMENTS OF WELL TAKEN @ EXAM. WELL TAG WELDED TO
SIDE OF CASING.

INSPECTED BY Angela M. Quinn DATE 9/23/14

810823

Form 238-7
3/95-C96IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. D00130795

Other IDWR No. _____

2. OWNER:

Name Carl Post

Address 1267 S. Crane Cr.

City Midvale State ID Zip 83645

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W	E	Twp 12	North ☒	or South ☐
		Rge 2	East ☐	or West ☒
		Sec 23	1/4 SW	1/4 SW
		Gov't lot	County	WASHINGTON

Lat: _____

Long: _____

Address of Well Site 1267 S. Crane Cr.

City Midvale

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

LL _____ Blk _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Stock water

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
benetonic	0	280	1500	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 331Was drive shoe seal tested? ☒ Y ☐ N How? air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+3	331	250	steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

229 ft. below ground

Artesian Pressure _____ lb

Depth flow encountered 285-310 ft

Describe access port or control

devices: Cap

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
60	330	330	1 hr

Water Temp. 56

Bottom hole temp. 56

Water Quality test or comments:

Depth first Water Encountered 200

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water	Y	N
10	0	2	Top soil			X
10	2	18	Broken up lava			X
8	18	70	Broken up lava			X
8	70	110	Black lava			X
8	110	130	Fractured black lava			X
8	130	150	Soft brown lava			X
8	150	160	Broken up brown lava			X
8	160	180	Black lava			X
8	180	200	Hard black lava			X
8	200	202	Crack	X		
8	202	250	Hard black lava			X
8	250	270	Soft black lava			X
8	270	280	Brown lava			X
8	289	285	Blue clay			X
8	285	310	Soft black lava	X		
8	310	331	Hard black lava			X
6	331	334	Hard black lava			X

RECEIVED

JUN 18 2004

WATER RESOURCES
WESTERN REGION

Completed Depth: 334

(Measurable)

Date: Started 12-22-03

Completed 1-05-04

13. DRILLER'S CERTIFICATION

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

Firm Name Treasure Valley Drilling

Firm No. 560

Firm Official

Date 6-11-04

Supervisor or Operator

Date 6-11-04

(Sign once if Firm Official & Operator)

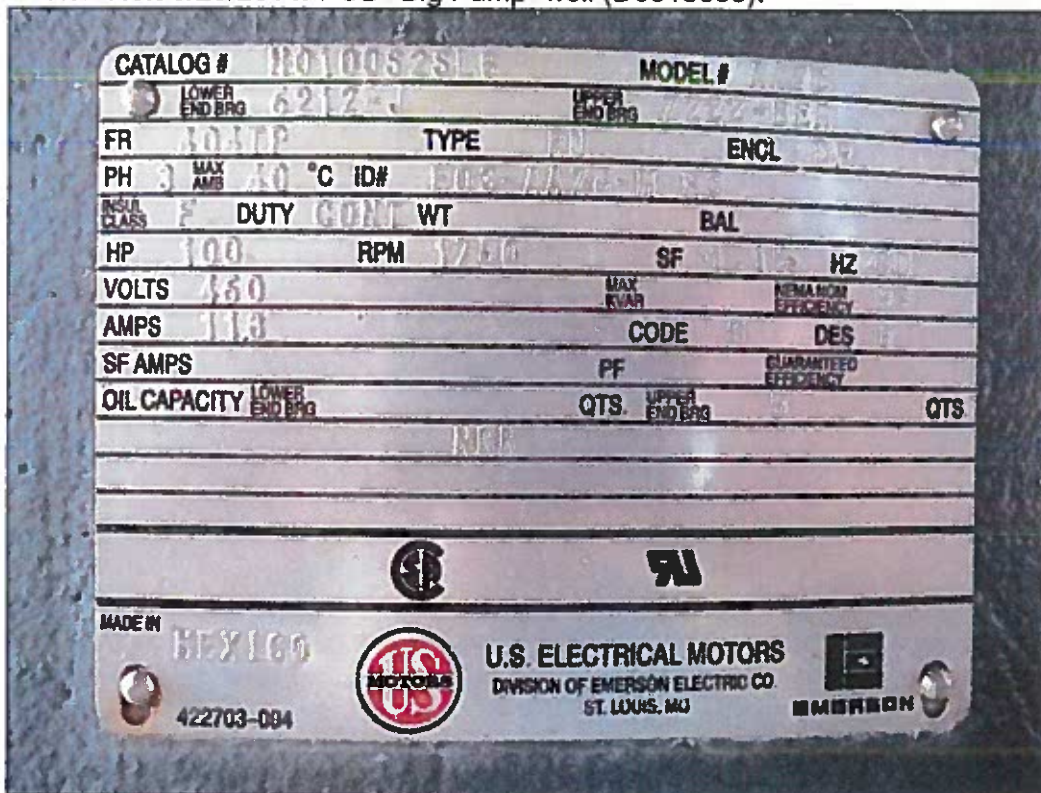
Date: 6/11/2004 Time: 10:43 AM

STOCK WATER WELL SURROUNDED BY CORALS (WELL #4)

67-14250 Beneficial Use Field Report Photos



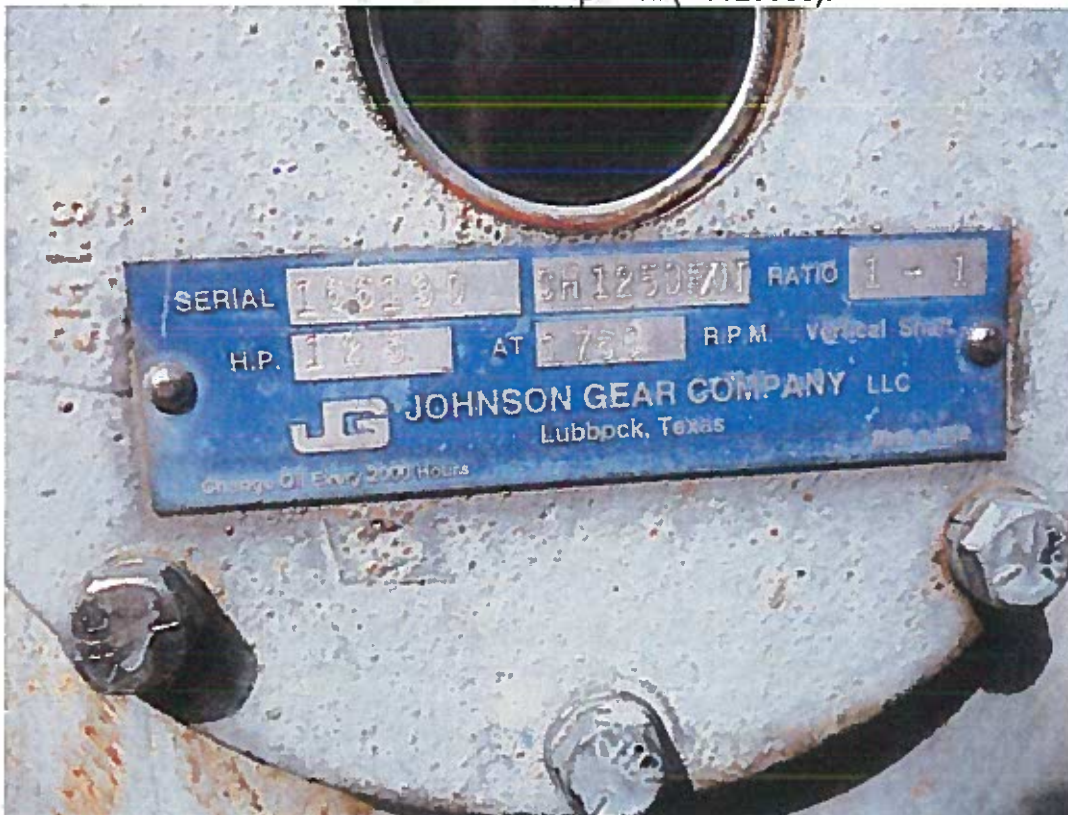
67-14250 Site Visit 9/23/2014: POD "Big Pump" well (D0015099).



67-14250 Site Visit 9/23/2014: POD "Big Pump" well (D0015099) motor plate.



67-14250 Site Visit 9/23/2014: POD "Diesel Pump" well (D0029055).



67-14250 Site Visit 9/23/2014: POD "Diesel Pump" well (D0029055) gear drive plate.



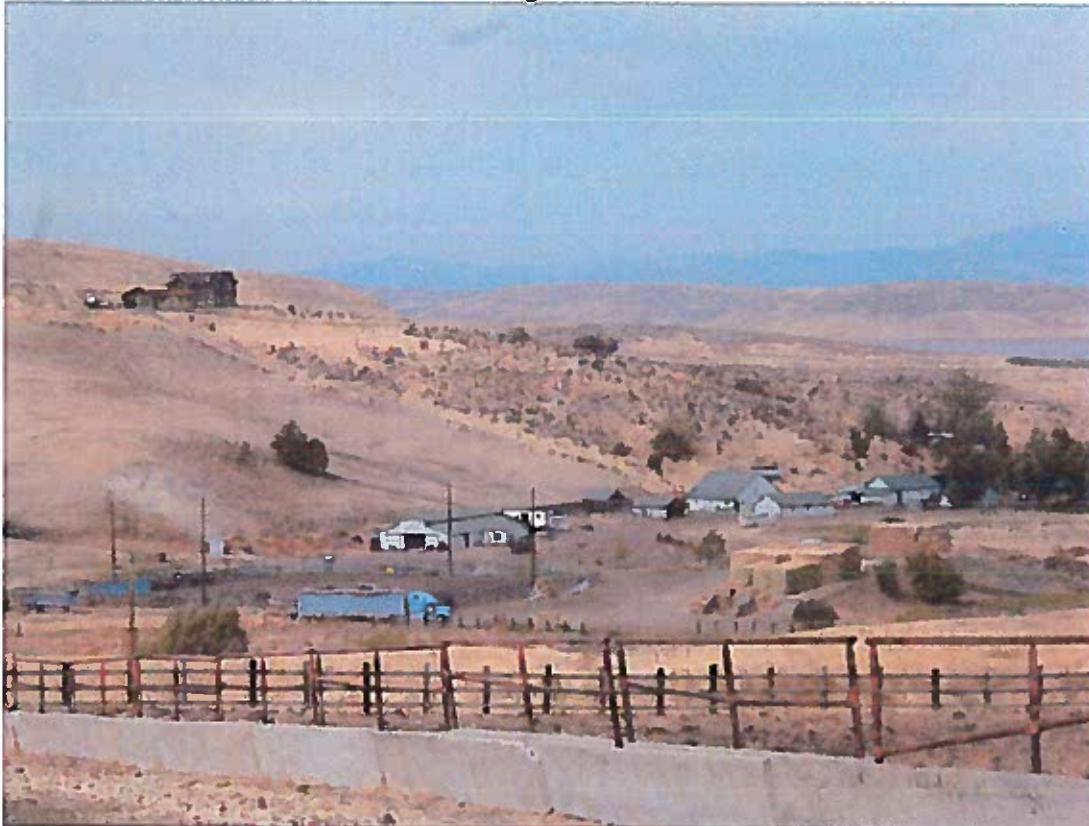
67-14250 Site Visit 9/23/2014: POD Stockwater well D0030795.



67-14250 Site Visit 9/23/2014: POD Stockwater well D0025990.



67-14250 Site Visit 9/23/2014: Portion of irrigation POU.



67-14250 Site Visit 9/23/2014: Portion of stockwater POU.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

September 15, 2014

ARNOLD CHRISTOPHER TRUE
1265 SOUTH CRANE RD
MIDVALE ID 83645

RE: Scheduling Field Exam for Water Right Permit No. 67-14250

Dear Mr. True:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of September 22 and September 29, 2014**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. The permit authorizes diversion of ground water for irrigation of up to 725 acres and stockwater for up to 1,000 range cattle. The property associated with this permit is located south of Crane Creek Reservoir.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by September 26, 2014**. If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Angela M. Grimm, P.G.
Water Resource Agent, Sr.