

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12161
Exam Date: 4/7/2016

1. Current Owner:
VERNON D GREENFIELD
17585 LOWER PLEASANT RIDGE RD
CALDWELL ID
83607-9233 (208)459-7223
2. Accompanied by: Robert Greenfield
Phone No: 208-880-1399
Address: 17585 Lower Pleasant Ridge Rd Caldwell 83607
Relationship to Permit Holder: Son / Representative

3. SOURCE: GROUND WATER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Wilder Irrigation Co.
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. 12, Twp 03N, Rge 04W, B.M. CANYON County

Method of Determination:

2.

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	
03N	04W	12					38.0	37.0											75.0

Total Acres: 75

Method of Determination: ArcMap tools.

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
D0066122		15		Wolf Pump	

*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

2. Measurements: No measurement taken.

E. FLOW CALCULATIONS

Measured Method: Pump Curve.

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 75.0 \times 4.5 = 337.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.95 \times 260 \times 1.9835 = 489.9 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 337.5 \text{ af}$$

2. Volume Calculations for Other Uses: None.

G. NARRATIVE/REMARKS/COMMENTS

Field exam was accompanied by a Mr. Robert Greenfield. He is the son of permit owner Vernon Greenfield. Vernon is deceased and Robert became legal representation of Vernon's estate. These documents were submitted with an extension request in 2013 but did not complete an ownership change form. Robert at some point was added to the right as a "present owner". For licensing purposes, the right will be issued in Vernon's name and an ownership change form will be sent to Robert with the approval letter.

County taxlot information shows land ownership in the name of Foresite LLC. ID SOS records show that Robert L Greensfield is the registered agent and member for Forsite LLC.

Overlap review found several surface water irrigation rights. Mr. Greenfield indicated he owns shares from the Wilder Irrigation District. No groundwater overlap exists. No POD overlap exists.

The ground water well is supplemental to Wilder Irrigation District water.

There is a 4" carbon steel pipe that delivers water from the well to the field headgate. There is the opportunity to take a field measurement, however at the time of the exam the proper equipment was not present to complete a measurement.

To complete the theoretical flow rate, Jim Dufoe of Dufoe Well Drilling was contacted to gather pump information. Mr. Dufoe submitted a pump curve to me showing a flow of 425 gpm at a pump setting of 100'. 425 gpm = 0.95 cfs.

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	03/01 to 11/15	0.95 CFS	337.5 AF
	<u>Totals:</u>	0.950 CFS	337.50 AF

2. Recommended Amendments

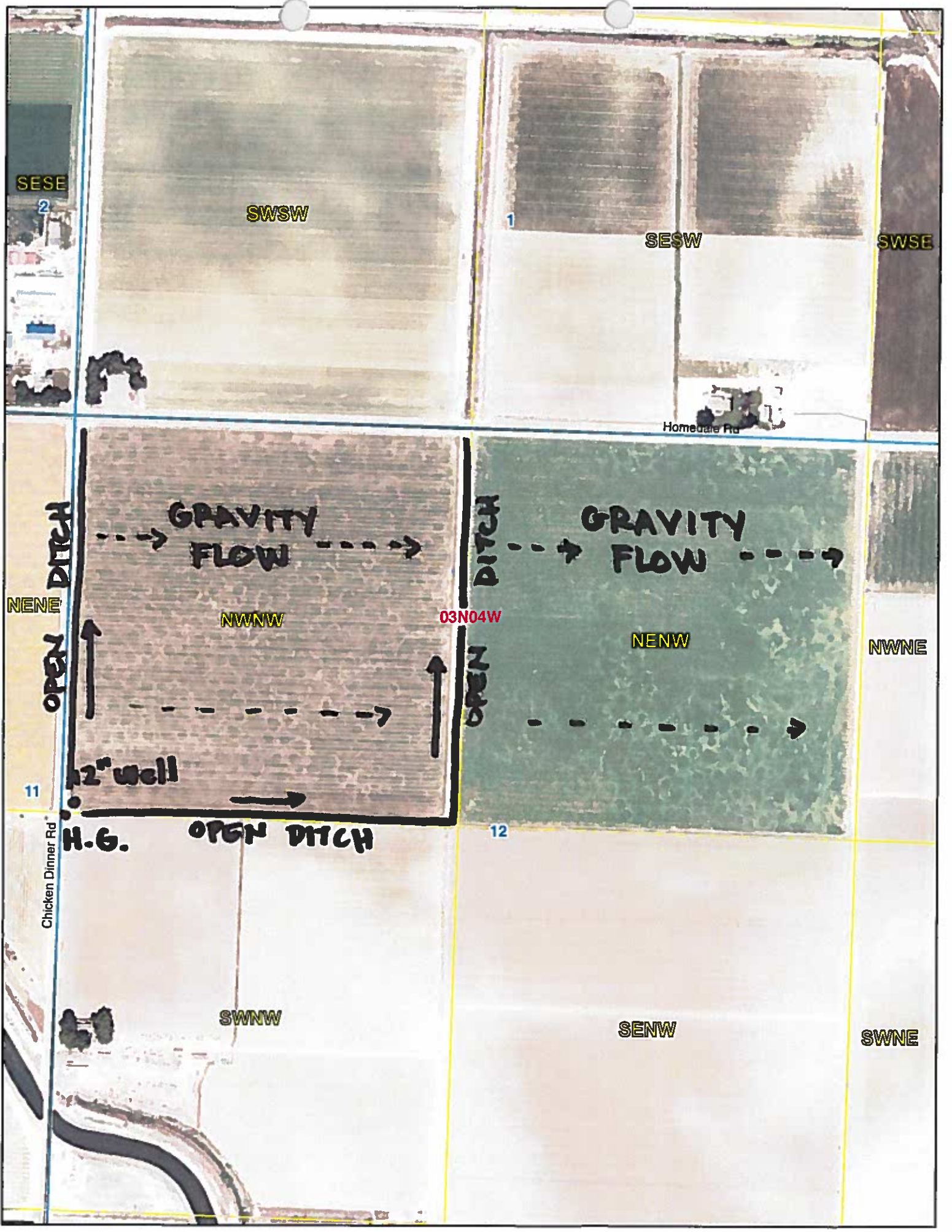
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

I. AUTHENTICATION

Field Examiner's Name Patrick Kelly Patrick Kelly Date 4-7-2016

Reviewer _____ Date _____



TIS	Basin/Sequencer/Owner	Source
03N004W12	63-11336	GROUND WATER
03N004W12	MARTELL FARMS INC; MARTELL, LETHA M	GROUND WATER
03N004W12	NORRIS, J MARTIN	GROUND WATER
03N004W12	63-11875	GROUND WATER
03N004W12	63-11875	GROUND WATER
03N004W12	63-12161	GROUND WATER
03N004W12	63-136	GROUND WATER
03N004W12	63-1378	GROUND WATER
03N004W12	63-198A	GROUND WATER
03N004W12	63-198A	GROUND WATER
03N004W12	63-1998	GROUND WATER
03N004W12	63-1998	GROUND WATER
03N004W12	63-200A	GROUND WATER
03N004W12	63-200B	GROUND WATER
03N004W12	63-200B	GROUND WATER
03N004W12	63-21015	GROUND WATER
03N004W12	63-21015	GROUND WATER
03N004W12	63-2106	GROUND WATER
03N004W12	63-233K	GROUND WATER
03N004W12	63-2388A	GROUND WATER
03N004W12	63-2392B	GROUND WATER
03N004W12	63-2392F	GROUND WATER
03N004W12	63-251A	GROUND WATER
03N004W12	63-2968	GROUND WATER
03N004W12	63-30181	GROUND WATER
03N004W12	63-30181	GROUND WATER
03N004W12	63-301A	GROUND WATER
03N004W12	63-302A	GROUND WATER
03N004W12	63-32695A	GROUND WATER
03N004W12	63-32695B	GROUND WATER
03N004W12	63-33251	GROUND WATER
03N004W12	63-33253	GROUND WATER
03N004W12	63-33739	GROUND WATER
03N004W12	63-373A	GROUND WATER
03N004W12	63-8470	GROUND WATER



12" Well located in the NWNW of Sec 12, 3N, 4W

Well delivers to headgate via 4" pipe. Wilder Irrigation District water enters at head gate also.

Chicken Dinner Rd in background.

Company:
Name:
Date: 4/8/2014



Pump:

Size: 8LM8V (1 stage)
Type: MultiStage
Synch speed: 3600 rpm
Curve: 8LM8V
Specific Speeds:
Ns: —
Nss: —
Dimensions:
Suction: —
Discharge: —
Vertical Turbine:
Bowl size: 7.88 in
Max lateral: 0.656 in
Thrust K factor: 2.6 lb/ft

Search Criteria:

Flow: 425 US gpm
Head: 100 ft
Fluid:
Water
SG: 1
Viscosity: 1.105 cP
NPSHa: —
Temperature: 60 °F
Vapor pressure: 0.2563 psi a
Atm pressure: 13.3 psi a

Motor:

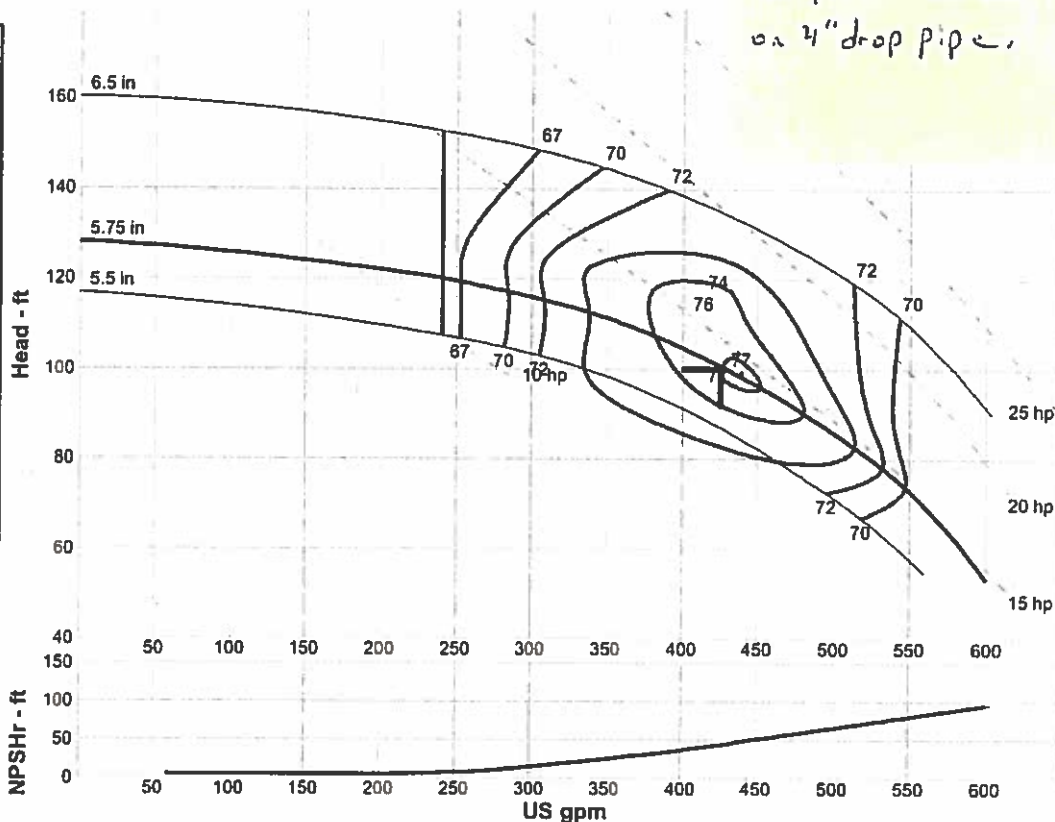
Standard: NEMA
Enclosure: TEFC
Size: 15 hp
Speed: 3600
Frame: 254T
Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: 150 °F
Pressure: 500 psi g
Sphere size: 0.57 in
Power: 200 hp
Eye area: 7.43 in²

Patrick Kelly,
Pump set at 100'
on 4" drop pipe.

Data Point	
Flow:	425 US gpm
Head:	101 ft
Eff:	77%
Power:	14 hp
NPSHr:	44.5 ft
Design Curve	
Shutoff head:	128 ft
Shutoff dP:	55.5 psi
Min flow:	240 US gpm
BEP:	77% @ 439 US gpm
NOL power:	14.6 hp @ 532 US gpm
Max Curve	
Max power:	22 hp @ 603 US gpm



Discharge Sizes 4" F(100mm) or 6" F(125mm); 1 Stage Length 26.25", Add'l Stage Length 6.625". 1 Stage Weight 100lbs, Add'l Stage Weight 34lbs. Shutoff head above 1000' requires ductile components.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
510	3450	83.4	74.2	14.5	69.5
425	3450	101	77	14	44.5
340	3450	112	74.1	13	23.9
255	3450	119	67.2	11.4	8.99
170	3450	—	—	—	—

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Form 238-7
6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 0066122Drilling Permit No. 964747-870806Water right or injection well # 61-121612. OWNER: Face Site L.L.C.Name Rob GreenfieldAddress 19545 Lower Pleasant RidgeCity Caldwell State ID Zip 83607

3. WELL LOCATION:

Twp. 3 North ☒ or South ☐ Rge. 4 East ☐ or West ☒Sec. 12 1/4 NW 1/4 NW 1/4Gov't Lot _____ County CanyonLat. N 43° 36.845 (Deg. and Decimal minutes)Long. W 116° 46.345 (Deg. and Decimal minutes)Address of Well Site east side Chickadee Rd(Give at least name of road - distance to road or landmark) 3 mile north Hwy 55 City Caldwell

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 ft ³)	Placement method/procedure
<u>3 bentonite clay</u>	<u>0</u>	<u>40</u>	<u>2900</u>	<u>dry pour</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
<u>12"</u>	<u>2'6"</u>	<u>85'</u>	<u>.250</u>	<u>steel</u>	☒	☐	☒
<u>10"</u>	<u>95'</u>	<u>105'</u>	<u>.250</u>	<u>steel</u>	☐	☒	☒
<u>10"</u>	<u>116'</u>	<u>85'</u>	<u>.250</u>	<u>steel</u>	☐	☒	☒
<u>8"</u>	<u>116'</u>	<u>115'</u>	<u>.250</u>	<u>steel</u>	☐	☒	☒

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type 304 stainless steelMethod of installation pull back casing after install

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>85'</u>	<u>95'</u>	<u>40</u>	<u>10'</u>	<u>10"</u>	<u>stainless</u>	
<u>105'</u>	<u>110'</u>	<u>30</u>	<u>8'</u>	<u>8"</u>	<u>stainless</u>	
<u>115'</u>	<u>125'</u>	<u>20</u>	<u>10'</u>	<u>8"</u>	<u>stainless</u>	

Length of Headpipe 12' Length of Tailpipe 5'-125'-130'Packer ☒ Y ☐ N Type k-packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
<u>10-20 sand</u>		<u>130</u>	<u>2800</u>	<u>powered from top</u>

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) 85' Static water level (ft) 18'

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

Describe access port top of well casing

Well test:			Test method:			
Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Ar	Flowing artesian
54	375	300	☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Sore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
16	0	2	top soil		
16	2	3	hard pan		
16	3	32	brown clay - sandy		
16	32	40	brown clay		
12	40	80	brown clay		
12	80	85	gravel - cemented		
12	85	95	gravel		
12	95	105	yellow clay		
12	105	110	gravel		
12	110	115	yellow clay		
12	115	124	brown sand		
12	124	127	brown clay		
12	127	130	blue clay		

RECEIVED

APR 29 2014

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable):

Date Started: 1-10-2014 Date Completed: 4-11-2014

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 Duane Well Drilling Co. No. 399*Principal Driller [Signature] Date 4-14-2014

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

*Signature of Principal Driller and rig operator are required.

No. W 88734	Due no later than Dec 31, 2015 Annual Report Form		2. Registered Agent and Address (NO PO BOX)			
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE	1. Mailing Address: Correct in this box if needed. FORESITE, LLC ROBERT L GREENFIELD 17585 LOWER PLEASANT RIDGE RD CALDWELL ID 83607		ROBERT L GREENFIELD 17585 LOWER PLEASANT RIDGE RD CALDWELL ID 83607			
			3. <u>New</u> Registered Agent Signature:*			
4. Limited Liability Companies: Enter Names and Addresses of at least one Member or Manager.						
Office Held	Name	Street or PO Address	City	State	Country	Postal Code
MEMBER	ROBERT L GREENFIELD	17585 LOWER PLEASANT RIDGE RD	CALDWELL	ID	USA	83607
5. Organized Under the Laws of: ID W 88734		6. Annual Report must be signed.* Signature: Glenda Bayley Name (type or print): Glenda Bayley Date: 10/30/2015 Title: Member				
Processed 10/30/2015		* Electronically provided signatures are accepted as original signatures.				



Tag D0066122



Headgate can put water into open ditches. This ditch borders south boundary of NWNW field.

Photo pointing east.