

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

**A. GENERAL INFORMATION**Permit No. 63-332631. Owner Dale and Stacy GustPhone No. 208-376-0141Current address 5373 Emerald St, Boise, ID 837062. Examiner's name Cody ParkerEXAM DATE July 26, 20183. Accompanied by Dale Gust

Email \_\_\_\_\_

Address sameRelationship to permit holder same

Phone No. \_\_\_\_\_

4. Source Groundwater

tributary to \_\_\_\_\_

**B. OVERLAP REVIEW**1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion None**C. DIVERSION AND DELIVERY SYSTEM**

## 1. Point(s) of Diversion:

| Ident. No. | Gov't Lot | 1/4 | 1/4 | 1/4 | Sec | Twp | Rge | County | Method of Determination/Remarks |
|------------|-----------|-----|-----|-----|-----|-----|-----|--------|---------------------------------|
|            |           |     | NW  | NW  | 32  | 01N | 02E | Ada    | GPS                             |
|            |           |     |     |     |     |     |     |        |                                 |
|            |           |     |     |     |     |     |     |        |                                 |
|            |           |     |     |     |     |     |     |        |                                 |

2. Place(s) of Use: Method of determination Aerial imagery, digital PLS

| Twp | Rge | Sec | NE |    |    |    | NW |     |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW  | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 01N | 02E | 32  |    |    |    |    | 32 | 7.5 |    |    |    |    |    |    |    |    |    |    | 39.5   |
|     |     |     |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |        |

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = \_\_\_\_\_

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)  
☒ Aerial photo attached (required for irrigation of 10+ acres)  
☒ Photo of diversion and system attached

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make   | Pump Serial No. or Discharge Size |
|---------------------------------------|------------|----|------------------|-------------|-----------------------------------|
| D0063644                              | VFD        | 50 |                  | submersible | 4"                                |
|                                       |            |    |                  |             |                                   |
|                                       |            |    |                  |             |                                   |

\*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 |
|-----------------------|------|------|-----------|------------|------|-------------|
| In-line flow meter    |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. **Measurements:** \_\_\_\_\_

325 gpm diversion

**E. NARRATIVE/REMARKS/COMMENTS**

This permit authorized the diversion of 0.84 cfs from groundwater for irrigation and domestic uses. Proof was submitted on June 1, 2018. I completed the field exam on July 26, 2018.

The irrigation and domestic uses were developed from separate wells on completely separate systems. The domestic use was split from this right and is being licensed as 63-34576.

The point of diversion for the irrigation is an 8-inch well with metal tag no. D0063644. The well is located at N43 23'05.8" by W116 15'11.1". A 50-hp pump with VFD diverts water to a 4" discharge pipe which increases in size to a 6" mainline. The 6" line runs east to a pivot center and west to several risers to irrigate a small field directly west of the well. A separate 4" lateral line runs north to provide water to a wheel line and a separate handline. The sprinklers on the wheel line and all hand lines have 9/64" nozzles. Operating pressure at the well head is 30 psi.

The total area irrigated was around 47 acres. The permit only authorized 40 acres. I have written a letter to the permit holder telling him to apply for the additional irrigation. The permit stated that no irrigation was included under the domestic component of the right. However the lawn surrounding the house is irrigated from the domestic well. The domestic component is being licensed separately and should include up to 1/2 acre irrigation. Therefore, the irrigated acres licensed under this right are being reduced to 39.5

The 6" mainline has an in-line flow meter installed. At the time of the exam, the pivot was running and the small field to the west of the well was being irrigated. The diversion rate was shown at around 325 gpm (0.72 cfs). The measured rate was within 10% of the BU Standard, so the 0.79 cfs is recommended.

Conditions requiring a method to measure static water level were maintained at licensing. The device has been installed. There is a sufficient straight length of conduit installed for measuring the flow of water, so I removed that associated condition at licensing.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

**F. FLOW CALCULATIONS**☐ Additional computation sheets attached

Measured Method:

Permit Rate: 0.80 cfs

BU Standard: 0.02 cfs/acre \* 39.5 acres = 0.79 cfs

Measured: 325 gpm measured on flowmeter = 0.72 cfs (w/in 10% of permit rate)

License exam fee rate: 1.00 cfs

RECOMMEND: 0.79 cfs

**G. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 39.5 \text{ acres} \times 4.5 \text{ afa/acre} = 177.8 \text{ afa}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.79 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 407.4 \text{ afa}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 177.8 \text{ afa}$$

## 2. Volume Calculations for Other Uses:

No other uses

**H. RECOMMENDATIONS**

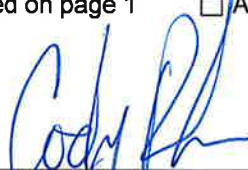
## 1. Recommended Amounts

| Beneficial Use | Period of Use |       | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|----------------|---------------|-------|------------------------------|--------------------------|
|                | From          | To    |                              |                          |
| Irrigation     | 03/01         | 11/15 | 0.79 cfs                     | 178 afa                  |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
| <b>Totals:</b> |               |       | 0.79 cfs                     | 178 afa                  |

## 2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature



Date

12-17-18

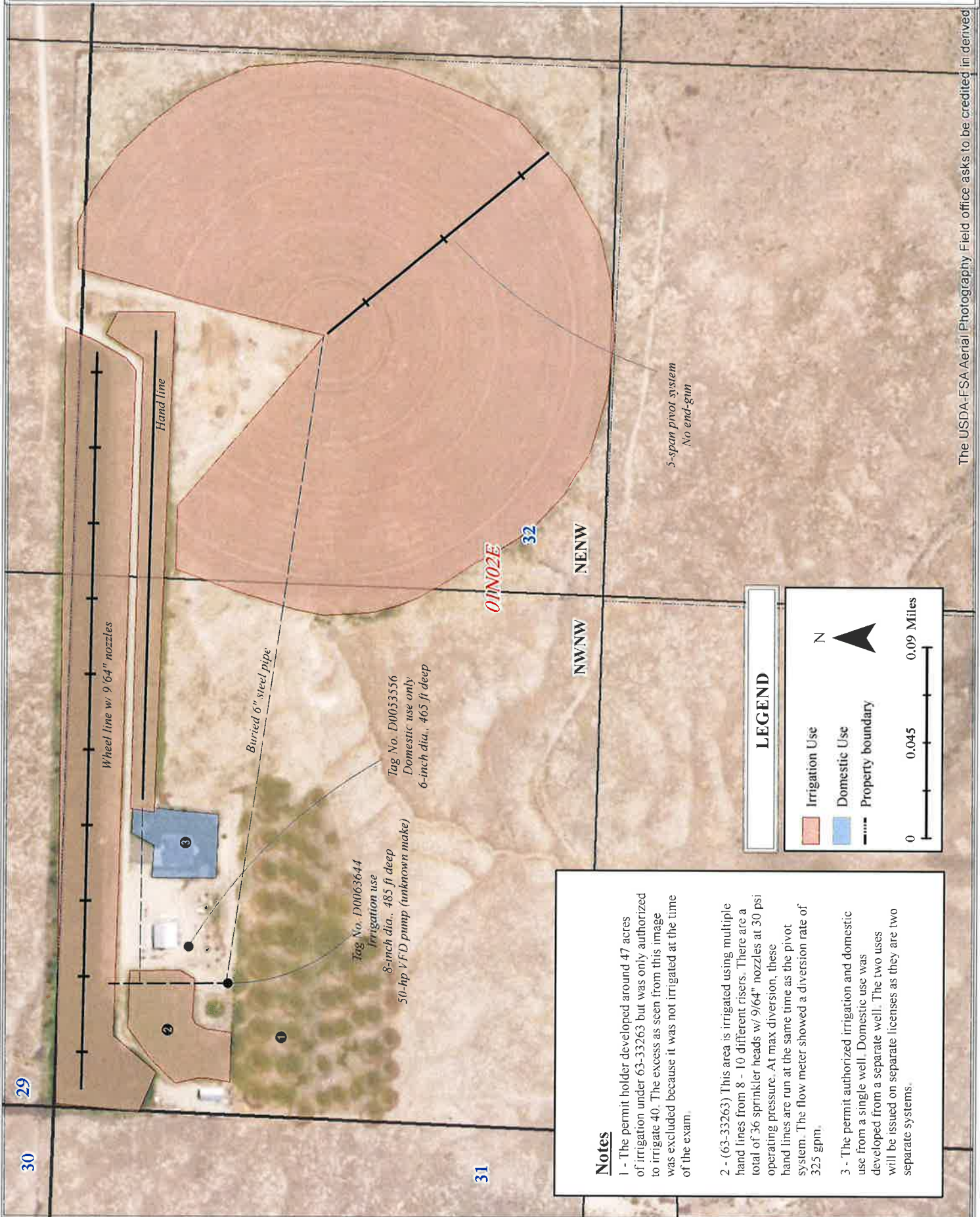
Reviewer



Date

12/17/18

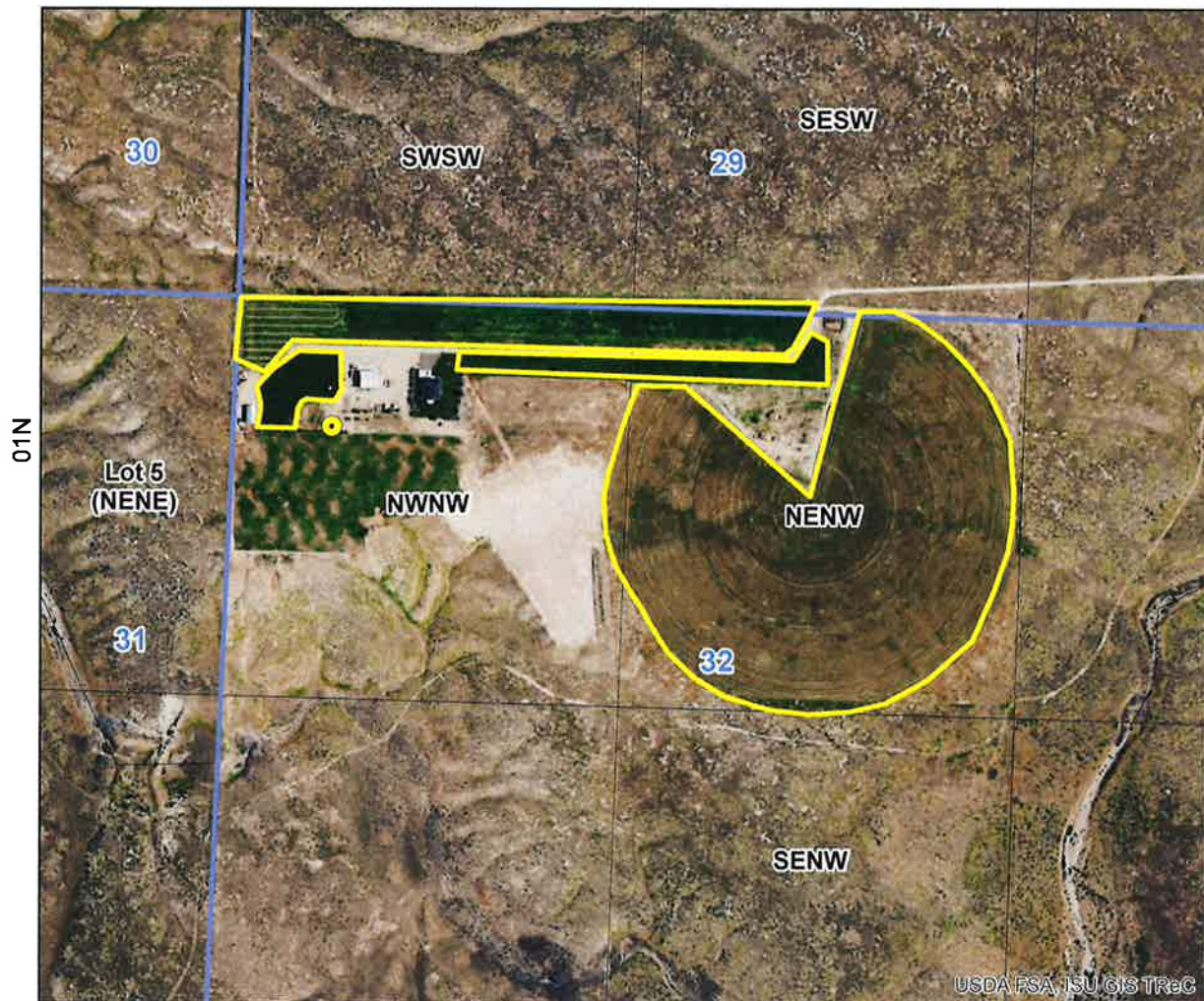
SEAL



State of Idaho  
Department of Water Resources  
**Beneficial Use Field Report**  
63-33263

IRRIGATION

02E



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.075 0.15 0.3 Miles



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*63-33263: The irrigation well located southwest of the house. The water level measuring device comes from the top of the well. Data was provided to the Department with the Proof.*



*63-33263: The measuring device which records both instantaneous and totalizing flow measurements from the irrigation well.*

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*63-33263: Operating pressure for the irrigation system is around 30 psi.*



*63-33263: Wheel line irrigation located at the northern boundary of the property.*

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*63-34579: The home served by the domestic well on the property.*



*63-34759: The lawn surrounding the home which is irrigated from the domestic well using pop-up sprinklers.*

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*63-33263: The pivot irrigation  
which is a component of the system  
connected to the irrigation well.*

01N02E32

**POU Comparison**

| Basin/Seq# | Owner    | Source     | Use        |
|------------|----------|------------|------------|
| 63-33263   | GUST, DA | GROUND W/A | IRRIGATION |
| 63-34579   | GUST, DA | GROUND WA  | DOMESTIC   |

| NENE | NWNE | SWNE | SENE | NENW | NWNW | SWNW | SENW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE | Total/Acres |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
|      |      |      |      | 32   | 7.5  |      |      |      |      |      |      |      |      |      |      | 39.5        |
|      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |             |

**POD Comparison**

| Basin/Seq# | Owner    | Source       |
|------------|----------|--------------|
| 63-33263   | GUST, DA | GROUND WATER |
| 63-34579   | GUST, DA | GROUND WATER |

| NENE | NWNE | SWNE | SENE | NENW | NWNW | SWNW | SENW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |

Separate well, See field report

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

803087

## 1. WELL TAG NO. D 0063644

Drilling Permit No. 914463-803087  
Water right or injection well # —

## 2. OWNER:

Name DALE GUST  
Address 9285 W STIRRUP DR  
City BOISE State ID Zip 83709

## 3. WELL LOCATION:

Twp. 1 North ☒ or South ☐ Rge. 2 East ☒ or West ☐  
Sec. 32 NW 1/4 NW 1/4 NW 1/4Gov't Lot \_\_\_\_\_ County ADA  
Lat. 43 ° 23:111 (Deg. and Decimal minutes)  
Long. 116 ° 15:167 (Deg. and Decimal minutes)  
Address of Well Site TBD PLEASANT VALLEY ROADCity BOISE  
(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 ft <sup>3</sup> ) | Placement method/procedure |
|------------------|-----------|-----------|------------------------------------|----------------------------|
| <u>Benthrife</u> | <u>0</u>  | <u>65</u> | <u>1250 lbs</u>                    | <u>Poured</u>              |

## 8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft)   | Gauge/Schedule | Material     | Casing                              | Linear                   | Threaded                 | Welded                              |
|--------------------|-----------|-----------|----------------|--------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| <u>8"</u>          | <u>13</u> | <u>65</u> | <u>288</u>     | <u>Steel</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

## 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 |
|------------|---------|-----------|-----------|--------------------|----------|-------------------|
| <u>N/A</u> |         |           |           |                    |          |                   |

Length of Headpipe N/A Length of Tailpipe \_\_\_\_\_Packer ☐ Y ☒ N Type \_\_\_\_\_

## 10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft <sup>3</sup> ) | Placement method |
|-----------------|-----------|---------|------------------------------------|------------------|
| <u>N/A</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) 340' Static water level (ft) 340'  
Water temp. (°F) N/A Bottom hole temp. (°F) N/A

Describe access port \_\_\_\_\_

## Well test:

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) |
|-----------------|--------------------------|-------------------------|
| <u>N/A</u>      | <u>N/A</u>               | <u>N/A</u>              |

## Test method:

| Pump                     | Bailer                   | Air                      | Flowing artesian         |
|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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         | 40      | Grn Sandy Clay                                                           |       | ✓ |
| 10"            | 40        | 60      | Brn Sandy Clay                                                           |       | ✓ |
| 10"            | 60        | 65      | Blk loam                                                                 |       | ✓ |
| 8"             | 65        | 182     | Blk loam                                                                 |       | ✓ |
| 8"             | 182       | 183     | Void (lost circ)                                                         |       | ✓ |
| 8"             | 183       | 340     | Blk loam                                                                 |       | ✓ |
| 8"             | 340       | 485     | Blk loam w/ fossils                                                      |       | ✓ |

RECEIVED

JUN 25 2012

WATER RESOURCES  
WESTERN REGIONCompleted Depth (Measurable): 485'  
Date Started: 3/29/12 Date Completed: 4/5/2012

## 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 S.O. Sullivan Drilling No. 212

\*Principal Driller \_\_\_\_\_ Date \_\_\_\_\_

\*Driller \_\_\_\_\_ Date \_\_\_\_\_

\*Operator II \_\_\_\_\_ Date \_\_\_\_\_

Operator I \_\_\_\_\_ Date \_\_\_\_\_

\* Signature of Principal Driller and rig operator are required.