

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

**A. GENERAL INFORMATION**

Permit No: 15-7191

Exam Date: 6/18/2014

1. Current Owner: BRETT CORDINGLY  
5365 W 2000 N  
MALAD CITY ID 83252  
(208)766-0974

AND/OR

CARALEA STACK  
290 40<sup>th</sup> ST  
OGDEN , UT 84405  
(801)814-2019

2. Accompanied by: None

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE**

**TRIBUTARY**

GROUND WATER

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 15-2056, 15-2003 (see narrative)
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

NE1/4NE1/4

Sec. 15, Twp 14S, Rge 35E, B.M.

ONEIDA County

Method of Determination: GPS and aerial photography

2.

**PLACE OF USE:** IRRIGATION

| Twp | Rge | Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|     |     |     | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> |        |
| 14S | 35E | 15  | 39.0      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | 39.0   |

Total Acres: 39

Method of Determination:

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.

| <u>Well or Diversion ID No.*</u> | <u>Motor Make</u> | <u>Hp</u> | <u>Motor Serial No.</u> | <u>Pump Make</u> | <u>Pump Serial No. or Discharge Size</u> |
|----------------------------------|-------------------|-----------|-------------------------|------------------|------------------------------------------|
| D0014794                         | submersible.      | 40        |                         |                  |                                          |

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

**D. FLOW MEASUREMENTS**

1.

| <u>Measurement Equipment</u> | <u>Type</u> | <u>Make</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Size</u> | <u>Calib. Date</u> |
|------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
| None                         |             |             |                  |                   |             |                    |
|                              |             |             |                  |                   |             |                    |
|                              |             |             |                  |                   |             |                    |

2. Measurements: No measurement taken. System consisted of one well with wheelines during the development period. However, the wheelines have been removed and the infrastructure is no longer in place to take a measurement.

**E. FLOW CALCULATIONS**☐ Additional Computation Sheets Attached

Measured Method: Theoretical Measurement

$$Q = \frac{8.8 \times (HP) \times (.70)}{H^*}$$

\*Drawdown was calculated using the Specific Capacity method with driller pump tests from well logs in the area. Local drawdown was calculated to be 8.3 gpm/foot. Drawdown for this system is 350 gpm/8.3 = 42 feet of drawdown.

$$\frac{8.8 \times 40 \times .70}{(202 + ((2.31) \times (40)))} = .84 \text{ cfs or } 376 \text{ gpm}$$

Maximum permitted flow rate = (.02cfs) \* (39ac) = 0.78 cfs

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = 39 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 136.5$$

$$V_{D.R.} = 0.78 \text{ [Diversion Rate (cfs)]} \times 214 \text{ (Days in Irrigation season)} \times 1.9835 = 331.0$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 136.5$$

## 2. Volume Calculations for Other Uses:

**G. NARRATIVE/REMARKS/COMMENTS**

At the time of the field exam no contact was able to be made with the current owner. Neighbors claimed that the owner had moved to another state and that the place of use had been developed with wheelines at one time but it had been unused for 5 or 6 years. Aerial photography seems to indicate the same conclusion that the land was at one time irrigated but has been fallow for several years.

Place of use overlaps with water rights 15-2003, and 15-2056. However, when the applicant applied for a new permit, he indicated that the existing water rights had not been used to irrigate the POU for several years.

The well was found and a theoretical measurement determined using well logs and power records (to identify HP).

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            | 4/01 to 10/31        | 0.780 CFS             | 136.5 AF             |
| <u>Totals:</u>        |                      | 0.780 CFS             | 136.5 AF             |

## 2. Recommended Amendments

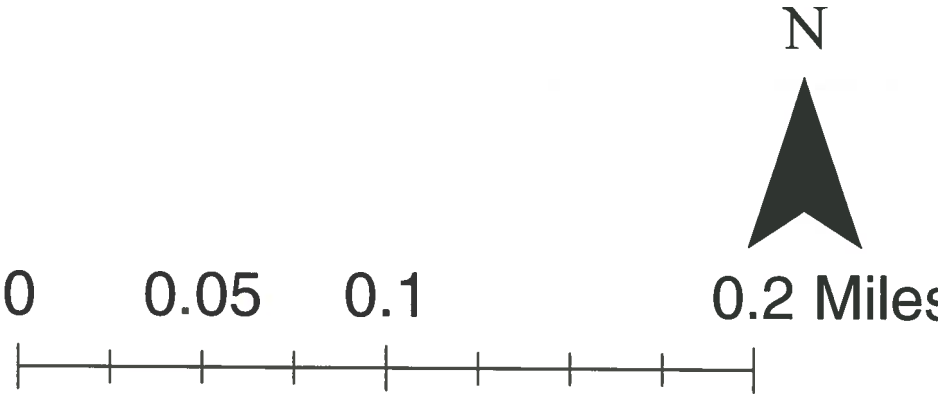
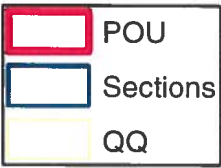
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

**I. AUTHENTICATION**

Field Examiner's Name Scott Byrd Date 2-9-15

Reviewer \_\_\_\_\_ Date \_\_\_\_\_





IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

Office Use Only

Inspected by \_\_\_\_\_

Twp \_\_\_\_\_ Rge \_\_\_\_\_ Sec \_\_\_\_\_

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

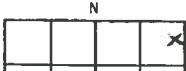
Lat:       :       :       Long:       :       :

1. WELL TAG NO. D 0014794  
 DRILLING PERMIT NO. 767874  
 Other IDWR No. 15-7191

2. OWNER:  
Name Bret Carding & Caralee Stalk  
Address 5345 N 2000 W  
City Malad State ID Zip 83453

**3. LOCATION OF WELL** by legal description:

Sketch map location must agree with written location.


 Twp. 14 North ☐ or South ☒  
 Rge. 35 East ☒ or West ☐  
 Sec. 15  $\frac{1}{4}$   $\frac{1}{4}$   $\frac{1}{4}$   $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NW  $\frac{1}{4}$   
 Gov't Lot \_\_\_\_\_ County Oreida  $\frac{10 \text{ acres}}$   $\frac{40 \text{ acres}}$   $\frac{160 \text{ acres}}$   
 Lat. : : Long. : :  
 Address of Well Site 5.365 W. 2000 W  
 City Milled  
 (Give at least name of road - Distance to Road or landmark)

Lt. \_\_\_\_\_ Bk. \_\_\_\_\_ Sub. \_\_\_\_\_ Name \_\_\_\_\_

#### 4. USE:

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

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 |           |
| Bentonite        | 0    | 20 | 15              | Over Bore |
|                  |      |    |                 |           |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 292  
Was drive shoe seal tested? ☐ Y ☐ N How?

**8. CASING/LINER:**

| Diameter | From | To  | Gauge | Material | Casing                              | Liner                    | Welded                              | Threaded                 |
|----------|------|-----|-------|----------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| 10"      | 10   | 192 | 250   | Steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|          |      |     |       |          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|          |      |     |       |          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

## 9. PERFORATIONS/SCREENS

Perforations \_\_\_\_\_ Method \_\_\_\_\_  
Screens \_\_\_\_\_ Screen Type \_\_\_\_\_

| From | To  | Slot Size | Number | Diameter | Material | Coating                             | Linear                   |
|------|-----|-----------|--------|----------|----------|-------------------------------------|--------------------------|
| 220  | 240 | 1/4X1"    | 120    | 10"      | ST-2     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260  | 265 | 1/4X1"    | 60     | 10"      | ST-2     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:**

160' ft. below ground Artesian pressure \_\_\_\_\_ lb.  
 Deep flow encountered \_\_\_\_\_ ft. Describe access port or  
 control devices:

## 11. WELL TESTS:

☐ Pump    ☐ Bailer    ☒ Air    ☐ Flowing Artesian

| Yield gal/min | Drawdown | Pumping Level | Time |
|---------------|----------|---------------|------|
|               |          |               |      |
|               |          |               |      |
|               |          |               |      |

Water Temp. Cold Bottom hole temp. Cold

Water Quality test or comments: over

Depth first Water Encounter 408

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]

### 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 Mountain West File No. 543

Firm Official Michael Fradson Date 2-27-01

Driller or Operator \_\_\_\_\_ Date \_\_\_\_\_

(Sign once if Firm Official & Operator)