

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 63-34847  
Exam Date: 08/14/2020

1. Current Owner:  
MICHAEL R GOODELL 14899 SAND HOLLOW RD CALDWELL ID 83607-7537
2. Accompanied by: Michael Goodell  
Phone No: 208-899-1417  
Address: 14899 Sand Hollow Rd. Caldwell, ID 83607  
Relationship to permit Holder: Permit Owner

**3. SOURCE:**  
GROUND WATER

Method of Determination: Site visit & Well log

**B. OVERLAP REVIEW**

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

| Water Right No. | Source             | Purpose of Use | Basis   |
|-----------------|--------------------|----------------|---------|
| 63-2878         | Elijah Drain       | Irrigation     | Decreed |
| 65-2433         | Payette River      | Irrigation     | Decreed |
| 65-2900         | Tunnel No. 2 Drain | Irrigation     | Decreed |
| 63-2322         | Wilson Slough      | Irrigation     | Decreed |

Comments: Irrigation rights owned by the Black Canyon Irrigation District (BCID) and Bureau of Reclamation (BOR) overlap the place of use (POU). Rights 63-2322 and 65-2433 are owned by the BOR and have large POU's that indirectly overlap with this permit. Rights 63-2878 and 65-2900 also have large POU's and are owned by the BCID. Right 65-2900 is sourced from the Tunnel No. 2 Drain which runs near the top of the POU for this permit. Water from this drain feeds into a small 0.5 acre pond in the NWNWSW QQQ of Sec. 10, Twp. 05N, Rge. 03W. Water under this permit is supplemental to surface water used from the BCID under 65-2900 and 63-2878.

2. Other water rights with the same point-of-diversion: YES Overlap

| Water Right No. | Source      | Purpose of Use | Basis   |
|-----------------|-------------|----------------|---------|
| 63-31145        | Groundwater | Irrigation     | License |
|                 |             |                |         |

Comments: Only water right 63-31145 shares the point of diversion (POD) with this permit. An additional 130 acres of irrigation was occurring under right 63-31145 without a water right. This permit was issued to account for those 130 acres. This permit and 63-31145 have a combined limit on the diversion rate of 1.0 cfs and the combined volume and acreages under the rights are additive to 1485 af and 330 acres. Additionally, the rights are conditioned with language to limit the rate to 0.02 cfs per acre and volume to 4.5 afa per acre.

**C. DIVERSION AND DELIVERY SYSTEM**

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

GROUND WATER NW¼ SW¼, Sec. 10, Twp 05N, Rge 03W, B.M. CANYON County

Method of Determination: Site visit, GPS point, ArcMap records.

PLACE OF USE: IRRIGATION

| Twp | Rng | Sec | NE |      |      |    | NW   |      |    |      | SW   |      |      |      | SE |    |    |    | Totals |
|-----|-----|-----|----|------|------|----|------|------|----|------|------|------|------|------|----|----|----|----|--------|
|     |     |     | NE | NW   | SW   | SE | NE   | NW   | SW | SE   | NE   | NW   | SW   | SE   | NE | NW | SW | SE |        |
| 05N | 03W | 10  |    |      |      |    |      |      |    |      | 13.0 | 12.0 | 12.0 | 13.0 |    |    |    |    | 50.0   |
| 05N | 03W | 15  |    | 17.0 | 17.0 |    | 18.0 | 14.0 |    | 14.0 |      |      |      |      |    |    |    |    | 80.0   |

Total Acres: 130.0

Method of Determination:

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.  
Y 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  
Y 1:24,000 or greater.

Y Aerial Photo Attached (required for irrigation of 10+ acres).

Y 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 |
|---------------------------|------------|----|------------------|----------------------|-----------------------------------|
| D0066199                  | Franklin   | 60 | 14F19-04-080528  | Franklin STS Turbine |                                   |

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type       | Make         | Model No. | Serial No. | Size       | Calib. Date |
|-----------------------|------------|--------------|-----------|------------|------------|-------------|
| Inline Flowmeter      | Ultrasonic | Master Meter | Octave    | 44503573   | 4" 175 PSI | N/A         |

2. Measurements:

Measurement Method: Inline Flowmeter

Meter Type: Master Meter Octave

Meter Reading: Range of 393 - 405 GPM. With average of 400 GPM, this converts to approximately 0.90 cfs. I will recommend the permitted diversion rate of 1.0 cfs since it is evident that the system is capable of diverting at this rate and the system did no undergo changes.

Permit allows 1.0 CFS

Observed rate: 0.9 CFS

Recommended for license: 1.0 CFS

#### E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

**Theoretical Calculation:**

Using a 60 Hp pump, water is pumped from the well into a pipe and then to a small pond. The estimated lift is 357 feet based on the well invoice showing the amount of drop pipe installed.

$$(8.8) \times (60 \text{ Hp}) \times 0.70 / 359.31 = 1.02$$

The theoretical calculation shows that a diversion rate of 1.0 cfs is possible. This is also supported by the observed flow rate of 1.0 cfs during the field exam for related right 63-31145.

**F. VOLUME CALCULATIONS****1. Volume Calculations for irrigation: N/A**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \underline{\hspace{2cm}}$$

Due to the nature of water use under this right, groundwater is supplemental to surface water shares from the Black Canyon Irrigation District. For supplemental groundwater rights, no volume is determined for the water right license.

**2. Volume Calculations for Other Uses: Pond**

From the attached pond analysis spreadsheet and ArcMap data for the pond, the following theoretical calculation was performed:

Surface area from GIS: 0.5 acres

Maximum pond depth estimated from permit holder: 10 feet

Average pond depth estimated: 4 feet (10 feet X 0.4)

Pond Capacity from spreadsheet: 2 AF

Evaporation losses from spreadsheet: 1.3 AF

Seepage losses from spreadsheet: 36.5 AF

Time required to fill the pond from spreadsheet: 1 day

Total AF to maintain pond from spreadsheet: 39.8 AF

**G. NARRATIVE/REMARKS/COMMENTS**

This permit was filed to cover irrigated acres not covered by existing senior right 63-31145. An exam for right 63-31145 was conducted by Western Region WRA Allen Bradbury on August 28, 2019. This right authorizes the irrigation of 200 acres, and at the time of the exam, it was discovered that a total of 330 acres were being irrigated. In order to bring the permit holder into compliance with his irrigation practices, this permit was filed to cover the additional 130 acres of irrigation not authorized under 63-31145. Currently, both this permit and right 63-31145 are owned by Michael R. Goodell. According to Department records, Mr. Goodell also owns the land at the place of use (POU) and point of diversion (POD).

Shortly after the August 2019 field exam for 63-31145, Mr. Goodell filed a new application for permit on January 2, 2020 and the permit was approved on February 28, 2020. Since the diversion system was already in place and the acres had previously been irrigated, proof was promptly received by the Department on March 6, 2020.

The beneficial use exam for this permit was conducted on August 14, 2020 and Mr. Goodell accompanied me when viewing

the diversion system.

Both this permit and right 63-31145 source water from a single well located in the NWSW quarter-quarter Sec. 10, Township 05N, Range 03 West. This well was completed in June 2014 by Coonse Well Drilling and is associated with drilling permit number 965456-871515 and metal tag number D0066199. According to the drillers report, the well was completed to a depth of 410 feet with water first encountered at 138 feet. Using an invoice sheet from Coonse Well Drilling provided in the report for right 63-31145, the pump was submersed to 357 feet based on the amount of drop pipe installed.

The diversion system consists of a single 60 Hp 8-inch 3 phase Franklin motor and a 60 Hp Franklin 550 GPM turbine pump. This submersible pump diverts groundwater to a small pond just north of the well. From the pond, water is diverted through two 12 inch underground pipes by three pumps. A 15 Hp, 30 Hp, and 40 Hp pump water from the pond to the fields. In addition to water from the well, this pond is supplied with surface irrigation water from the Black Canyon Irrigation District (BCID). Water from BCID's No. 2 drain dumps into the pond through two separate culvert pipes. One BCID culvert pipe is located on the west side of the pond while the other is on the north side.

According to ArcMap, the pond has a surface area of approximately 0.5 acres. Referencing the field exam report for right 63-31145, the estimated maximum depth of the pond is 10 feet with an average depth of 4 feet ( $10 \times 0.4 = 4$  feet). Using the Department's pond analysis spreadsheet, the pond capacity was calculated at approximately 2 AF. Similarly, the capacity was estimated at 1.96 AF for right 63-31145 in 2019. With the observed average diversion of 1.0 cfs, the refill rate is within 24 hours. In the pond analysis spreadsheet, this is designated as "1" day that is required to fill the pond. The pond is not part of this permit or right 63-31145 since it meets the Department's 24 hour fill rule for refill described in Application processing Memo # 73.

Existing water right 63-31145 was licensed for 1.0 cfs and this permit was approved with the same rate. Mr. Goodell stated that nothing about the system has changed since the 2019 field exam for right 63-31145. The well is equipped with 4-inch Mater Meter Octave ultrasonic water meter. At the time of the exam, the flow fluctuated between 393 and 405 GPM with an average is 400 GPM or approximately 0.9 cfs. The flow meter located on the well is included on a list of closed conduit flow meters accepted by the Department (<https://idwr.idaho.gov/files/water-measurement/approved-flow-meter-list.pdf>). In order to make the list, the meters must have have an accuracy of +/- 2% of the flow rate over the entire range of tested flows, among other factors. Using the observed average rate of 400 GPM, +/- 2% would be 8 GPM. A flow rate of 408 GPM is approximately 0.91 cfs. Although the flow was observed was slightly less than the permitted rate, 1.0 cfs cfs will be recommended since the diversion system used by this permit and right 63-31145 did not undergo any additional development or changes.

Based on aerial imagery, the POU for this permit has clearly been irrigated for a number of years. The permit holder is just now catching up with the water rights to match his irrigation practices. This permit covers the outer edges of a circular pivot in the SW quarter of Section 10, the outer edges of a  $\frac{3}{4}$  pivot in the NWNW, NENW and SENW QQ's in Section 15 and the outer edges of a  $\frac{1}{2}$  pivot in the NWNE and SWNE QQ's in Section 15, all in Township 5 North, Range 3 West. These areas represent the outer edges of the fields that are adjacent to the POU for right 63-31145. In the SW quarter, the POU is irrigated by a 10- tower circular pivot. The  $\frac{3}{4}$  and  $\frac{1}{2}$  pivots are each irrigated with separate 7-tower pivots. Additionally, two 3-tower corner pivots cover the NE corners of the fields in the NENW and NWNE QQ's of section 15. These corners of the field border the South side of Sand Hollow Rd. A few smaller corners are irrigated by handlines.

Aside from overlapping BCID rights and Mr. Goodell's adjacent right 63-31145, there are no other applications, permits or rights that directly overlap or are used at the POU. Irrigation rights 63-2322 and 65-2433 are owned by the Bureau of Reclamation and have large places of use that indirectly overlap with this permit.

Conditions 1 and 2 were removed from the permit. Conditions 3 (x35) was carried to the license. The x35 condition did not

list limits for the volume or acres since they are additive. Conditions 4 (R61), 5 (WB7), 6 (943) and 7 (01M) were carried over to the license. Conditions 8 (26A) and 9 (046) were removed since they were no longer relevant. Condition 10 (121) was changed to condition 103 as is standard at licensing.

Have conditions of permit approval been met? ☒ Yes ☐ No

#### H. RECOMMENDATIONS

##### 1. Recommended Amounts

| <u>Beneficial Use</u> | <u>Period of Use</u> | <u>Rate of Diversion</u> |
|-----------------------|----------------------|--------------------------|
| IRRIGATION            | 03/01 to 11/15       | 1.00 CFS                 |

Totals: 1.00 CFS

##### 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

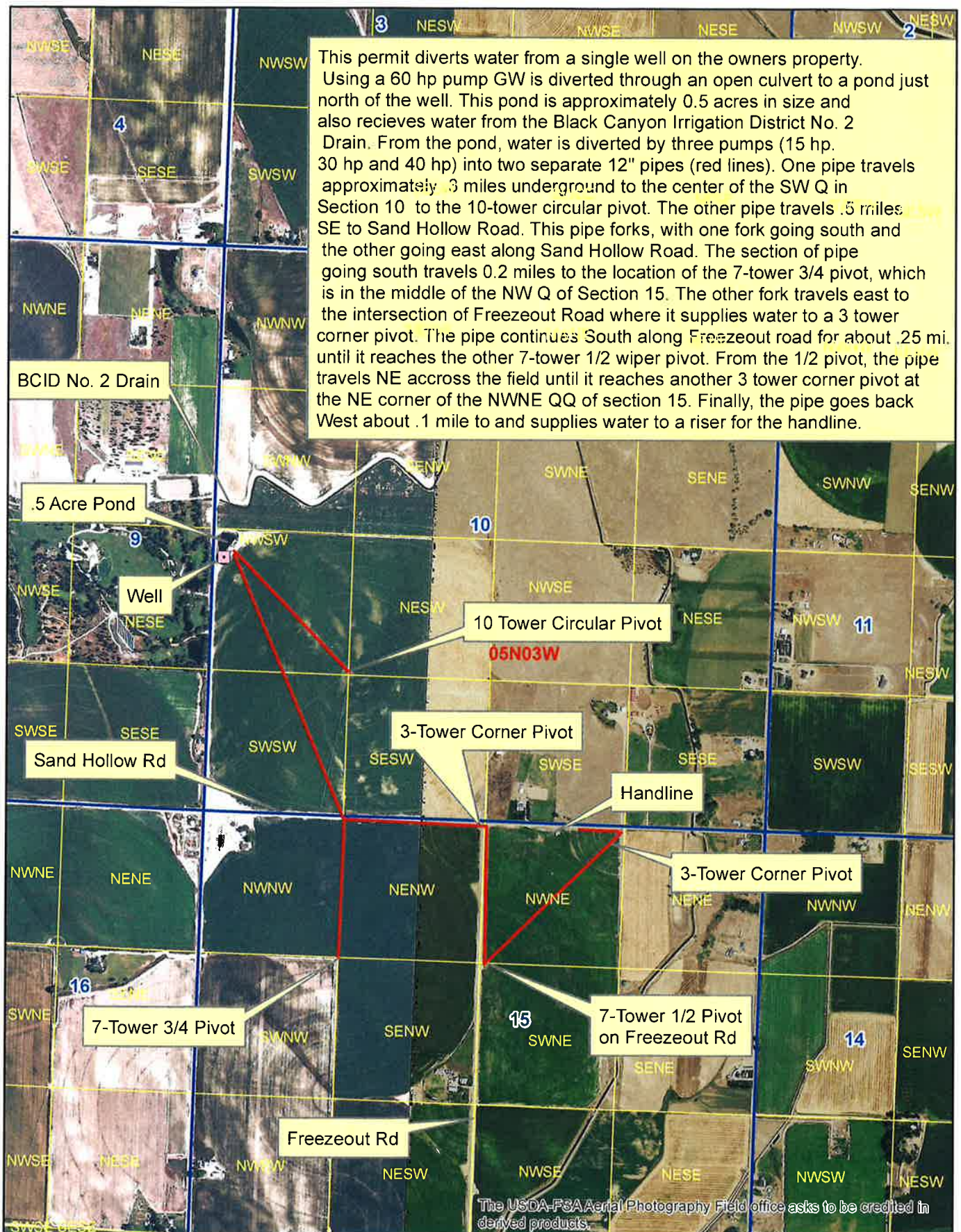
#### I. AUTHENTICATION

Alex Dalglish - Water Resource Agent

Field Examiner's Name Alex Dalglish Date 11/20/2020

Reviewer [Signature] Date 11/20/20

# 63-34847 Beneficial Field Exam System Diagram



# THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-34847  
 Reviewer: Alex Dalglish  
 Date of Review: 8/19/2020

P/D No.:

PUMP HORSEPOWER  
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

|         |
|---------|
| Well #1 |
|         |
| 60      |
|         |
|         |
| 357     |
|         |
| 0       |
|         |
| 1.04    |
| 465     |

|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

|        |
|--------|
|        |
|        |
|        |
|        |
|        |
|        |
|        |
|        |
|        |
| 1.04   |
| 464.64 |

The above calculates the formula =

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

Assumptions: %70 efficiency,  
 No Friction

Examiners Notes:

This system currently uses a single well with a 60 Hp pump. The system was pumping an average of about 400 GPM from the pump. The 357 feet of lift was determined from the amount of drop pipe installed on the well invoice. The calculation above show that a lift of 357 feet is capable of providing 465 GPM from the well. The flow rate observed in the field of 400 GPM is roughly 0.9 cfs but the system is capable of pumping at the higher permitted rate of 1.0 cfs.

# COONSE WELL DRILLING & PUMP CO., INC.

P O BOX 366  
Middleton, ID 83644

Phone # 208-454-0190  
Fax # 208-454-2743

## INVOICE

**BILL TO:**

**DATE**

**INVOICE #**

8/5/2014

204383

MIKE GOODELL  
14899 SAND HOLLOW RD.  
CALDWELL, IDAHO 83607

| PROJECT    |                                                                 | TERMS          | DUE DATE |
|------------|-----------------------------------------------------------------|----------------|----------|
| EL PASO RD |                                                                 | Due on receipt | 8/5/2014 |
| QTY        | DESCRIPTION                                                     | UNIT PRICE     | AMOUNT   |
| 1          | 60 HP 8-IN 6 STG F8STS0605508606, CODE # 2M4-0757, FRANKLIN STS | 2,988.50       | 2,988.50 |
|            | TURBINE 550 GPM                                                 |                |          |
| 1          | 60 HP 8-IN 3PH 460V 60HZ FRANKLIN MOTOR, MODEL 2396028521, S/N  | 4,870.00       | 4,870.00 |
|            | 14F19-04-080528                                                 |                |          |
| 1          | CERUS 60 HP PUMP PANEL                                          | 1,800.00       | 1,800.00 |
| 1          | 4-IN OCTAVE ULTRASONIC WATER METER                              | 0.00           | 0.00     |
| 1          | PUMP PANEL FRAME TO MOUNT PANEL                                 | 0.00           | 0.00     |
| 357        | 6-IN GALV DROP PIPE                                             | 14.95          | 5,337.15 |
| 365        | 2-3 W/ GROUND SUBMERSIBLE CABLE FLAT JACKETED H/D               | 5.20           | 1,898.00 |
| 12         | #6 THHN WIRE                                                    | 0.99           | 11.88    |
| 36         | #4 THHN WIRE                                                    | 1.45           | 52.20    |
| 1          | 14 X 6 WELL CAP FABRICATE                                       | 125.00         | 125.00   |
| 1          | FABRICATE PUMP PANEL SUPPORT AND INSTALL                        |                |          |
| 70         | 6-IN PVC PIPE (SDR 17)                                          |                |          |
| 1          | MISC PLUMBING & ELECTRICAL                                      |                |          |
| 70         | 6" SCH SDR 17 PVC PIPE                                          |                |          |
| 1          | OCTAVE ULTRASONIC FLOW METER                                    |                |          |
| 1          | THINNING AGENT                                                  |                |          |
| 1          | BACKHOE (MINIMUM CHARGE)                                        |                |          |
| 10         | LABOR- INSTALL                                                  |                |          |

9508

DATE 8/11/2014

PAY TO Coonse Well Drilling

AMOUNT \$ 22,771.65

MEMO Invoice #204383

CATEG. Equipment:Purchase

ACCT. Business Checking

5

**Payments Applied**

\$0.00

**Balance Due**

**\$22,771.65**

**THANK YOU FOR YOUR BUSINESS! PLEASE PAY BY THIS INVOICE.**

TERMS - All accounts are due and payable upon receipt of invoice. Accounts 30 days past due are subject to a finance charge of 1 1/2% per month (18% annual rate). In the event that this invoice has not been paid within 60 days, a property lien will be filed and legal fees for collection will be added to total amount due.

NOTE: THERE IS A 3% PROCESSING FEE ON CREDIT CARD PAYMENTS.

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0066199  
Drilling Permit No. 965456-871515  
Water right or injection well # \_\_\_\_\_

2. OWNER:  
Name Michael R. Goodell  
Address 14899 Sand Hollow Rd.  
City Caldwell State ID Zip 83607

3. WELL LOCATION:  
Twp 5 North ☒ or South ☐ Rge 3 East ☐ or West ☒  
Sec 10 1/4 NW 1/4 SW 1/4

Gov't Lot \_\_\_\_\_ County Canyon  
Lat. 43 47.126 (Deg. and Decimal minutes)  
Long 116 41.530 (Deg. and Decimal minutes)  
Address of Well Site East across rd from 28371 El Paso Rd.

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 \_\_\_\_\_

| Seal material    | From (ft) | To (ft)    | Quantity (lbs or ft <sup>3</sup> ) | Placement method/procedure |
|------------------|-----------|------------|------------------------------------|----------------------------|
| <u>bentonite</u> | <u>0</u>  | <u>360</u> |                                    |                            |

| Diameter (nominal) | From (ft) | To (ft)    | Gauge/Schedule | Material     | Casing                              | Liner                    | Threaded                 | Welded                              |
|--------------------|-----------|------------|----------------|--------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| <u>14"</u>         | <u>+2</u> | <u>320</u> | <u>.250</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 alloy machine

Method of installation \_\_\_\_\_

| From (ft)  | To (ft)    | Slot size   | Number/ft  | Diameter (nominal) | Material         | Gauge or Schedule |
|------------|------------|-------------|------------|--------------------|------------------|-------------------|
| <u>320</u> | <u>420</u> | <u>.025</u> | <u>---</u> | <u>14"</u>         | <u>stainless</u> |                   |

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

Packer ☐ Y ☐ N Type \_\_\_\_\_

| Filter Material    | From (ft)  | To (ft)    | Quantity (lbs or ft <sup>3</sup> ) | Placement method |
|--------------------|------------|------------|------------------------------------|------------------|
| <u>8-12 silica</u> | <u>300</u> | <u>420</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) 138 Static water level (ft) 138  
Water temp. (°F) 58degF Bottom hole temp. (°F) \_\_\_\_\_  
Describe access port metal cap

| Well test:                          | Test method:             |
|-------------------------------------|--------------------------|
| Drawdown (feet)                     | Discharge or yield (gpm) |
| <u>212</u>                          | <u>450gpm</u>            |
|                                     | Test duration (minutes)  |
|                                     | <u>360minutes</u>        |
| Pump                                | Bailer                   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Air                                 | Flowing artesian         |
| <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 |
| 18"            | 0         | 6       | sand                                                                     |       | X |
| "              | 6         | 26      | sandy clay                                                               |       | X |
| "              | 26        | 38      | sand                                                                     |       | X |
| "              | 38        | 48      | tan clay                                                                 |       | X |
| "              | 48        | 55      | tan clay                                                                 |       | X |
| "              | 55        | 67      | sand                                                                     |       | X |
| "              | 67        | 75      | tan clay                                                                 |       | X |
| "              | 75        | 80      | sand                                                                     |       | X |
| "              | 80        | 86      | tan clay                                                                 |       | X |
| "              | 86        | 95      | sand                                                                     |       | X |
| "              | 95        | 112     | tan clay                                                                 |       | X |
| "              | 112       | 115     | sand                                                                     |       | X |
| "              | 115       | 128     | sandy clay                                                               |       | X |
| "              | 128       | 140     | sand                                                                     | X     |   |
| "              | 140       | 143     | tan clay                                                                 |       | X |
| "              | 143       | 148     | coarse sand                                                              | X     |   |
| "              | 148       | 162     | tan clay                                                                 |       | X |
| "              | 162       | 168     | sand                                                                     | X     |   |
| "              | 168       | 171     | tan clay                                                                 |       | X |
| "              | 171       | 183     | coarse sand                                                              | X     |   |
| "              | 183       | 195     | sandy clay                                                               |       | X |
| "              | 195       | 210     | fine sand                                                                | X     |   |
| "              | 210       | 235     | sandy clay                                                               |       | X |
| "              | 235       | 241     | sand                                                                     | X     |   |
| "              | 241       | 252     | tan clay                                                                 |       | X |
| "              | 252       | 281     | sand                                                                     | X     |   |
| "              | 281       | 305     | tan clay                                                                 |       | X |
| "              | 305       | 310     | blue clay                                                                |       | X |
| "              | 310       | 450     | coarse sand with blue clay strips                                        | X     |   |
| "              |           |         | lost 35 foot of hole                                                     |       |   |

Completed Depth (Measurable) 410ft

Date Started: Apr 10, 2014 Date Completed: Jun 6, 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 Coonse Well Drilling Co. No 409

\*Principal Driller [Signature] Date Jun 20, 2014

\*Driller [Signature] Date Jun 20, 2014

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

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

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

JUN 26 2014

WATER RESOURCES  
WESTERN REGION

PHOTOGRAPHER AND DATE OF PHOTOS ALEX DALGLEISH 8/14/2020

FILE NUMBER 63-34847



A 14 inch well casing connects to a 4.5 inch galvanized pipe. This pipe connects to the Octave flow meter and valve to an 8 inch outlet pipe to the pond.



Inline Octave flow meter installed at the well.



Outlet pipe from the well discharging groundwater into the pond. This pipe is buried in an embankment between the well and the pond.



Looking West at the pond. Well discharge pipe (designated with blue arrow) and Black Canyon Irrigation District inflow pipes shown with red arrows.



Water is pumped from the pond by 3 pumps. From left to right, 30 hp, 40 hp and 15 hp pumps divert water into two 12" blue pipes.



PHOTOGRAPHER AND DATE OF PHOTOS ALEX DALGLEISH 8/14/2020

FILE NUMBER 63-34847



Both photos above are of the two 3 tower corner pivots. The photo on the right is at the intersection of Sand Hollow Rd and Freezeout Rd.

Both photos taken standing on the South side of Sand Hollow Road looking SW.



The photos above show both sides of the 1/2 pivot in the sugar beets field. The left photo is looking W/SW and the right photo is along Freezeout Road looking East.