

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**Permit No: 95-17169

Exam Date: 10/20/2016

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y \_\_\_ N
- Irrigation of 5 acres or less
  - Storage of up to 14.6 AF for stockwater purposes only
  - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
  - Other < >

2. Current Owner: Name: Raymond and Sherry Hughes
- Owner of Record Correct? X Y \_\_\_ N
- Address of Record Correct? Y \_\_\_ N
- If No: Address

Tax lot data shows Raymond Hughes as the owner of the property.

3. Beneficial Use Fees have been paid: X Y \_\_\_ N Receipt No: C0

4. **SOURCE** TRIBUTARY

Ground water

Method of Determination: Well Driller's Report, GIS, and Taxlot Data

Change in Source: \_\_\_ Y X \_\_\_ N

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| NONE            |        |                |       |
|                 |        |                |       |

Comments: Water right 95-17170 uses the same well, but the place of use is for the tax parcel to the south this property. Hughes split his tax parcel and sold the southern half to a Mr. Lauer who owns permit 95-17170. Water rights 95-10318 and 95-10334 are located in the same 40 acre tract, but they belong to the neighbors to the west of this permit. Adjudication claim 95-11662 was originally filed in this tract, but the property is actually south in a different 40 acre tract.

2. Other water rights with the same point of diversion: NO Overlap

| Water Right No. | Source       | Purpose of Use | Basis  |
|-----------------|--------------|----------------|--------|
| 95-17170        | Ground water | Domestic       | Permit |
|                 |              |                |        |

Comments: Water right 95-17170 uses the same well, but the place of use is for the tax parcel to the south this property. Hughes split his tax parcel and sold the southern half to a Mr. Lauer who owns permit 95-17170. Water rights 95-10318 and 95-10334 are located in the same 40 acre tract, but they belong to the neighbors to the west of this permit. Adjudication claim 95-11662 was originally filed in this tract, but the property is actually south in a different 40 acre tract.

**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

| Source | Govt. Lot | 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. |      | County   |
|--------|-----------|-----|-----|-----|------|------|------|------|----------|
| Well   |           |     | NE  | NE  | 11   | 53N  | 3W   | B.M. | KOOTENAI |
|        |           |     |     |     |      |      |      | B.M. |          |
|        |           |     |     |     |      |      |      | B.M. |          |

Method of Determination: GIS and Tax Lot data.Change in POD?   X   N Amendment Required?   X   N**2. PLACE OF USE:** 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 |        |
| 53N           | 3W  | 11    | D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|               |     | Lot # |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
| Total Acres = |     |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

Method of Determination: GIS and Tax Lot Data The tax parcel straddles the 40 acre tract line, but the land in the NWNE is a road easement, so there is no water use in the NWNE. The NWNE was not included in the permit, and was not carried over to the license recommendation. The lot was split changing the lot from Lot 4, Crest Wood Subdivision to Lot 1, Block 1, Hughes Acres Subdivision.

Change in POU?   X   N Amendment Required?   X   N   Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

  X   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 |
|------------------------------------------|------------|----|------------------|-----------|-----------------------------------|
| Well                                     | Unknown    |    |                  |           |                                   |
|                                          |            |    |                  |           |                                   |

\*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 |
|-------------------------|------|------|-----------|------------|------|-------------|
| NONE                    |      |      |           |            |      |             |
|                         |      |      |           |            |      |             |

2. Measurements: No measurement is required for an in-house exam.

**E. FLOW CALCULATIONS**

\_\_\_\_\_Additional Computation Sheets Attached

Measured Method:

There is no information to show what size of well pump is being used. Therefore, I am following the standards set forth in Processing Administrative Memorandum #22, which states that the permit should be limited to 0.04 cfs.

Administrative Memo #22 = 0.04

Permit allowed = 0.04 cfs

I am recommending a diversion rate of 0.04 cfs as recommended in Administrative Memo #22.

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

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

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

## 2. Volume Calculations for Other Uses:

There is no information to show what the actual water volume being used. Therefore, I am following the standards set forth in Processing Administrative Memorandum #22, which states that the permit should be limited to 1.2 af for in-house use and up to ½ acre of yard irrigation.

**G. PURPOSE OF USE**Irrigation \_\_\_\_Y\_\_\_\_N # Stock \_\_\_\_\_ Domestic # of Homes 1

Other: &lt; &gt;

Change in Purpose of Use? \_\_\_\_Y\_\_\_\_N

Method of Determination: Tax data, GIS, and Well Driller's Report.

If Yes: From Use \_\_\_\_\_ To Use \_\_\_\_\_ Amount \_\_\_\_\_ CFS \_\_\_\_\_ AFA \_\_\_\_\_

**H. NARRATIVE/REMARKS/COMMENTS**

This permit is qualified for an in-house exam. Permits 95-17169 and 95-17170 are diverted from a single well. Permit 95-17169 is for the northern parcel associated with the well. The property for both permits were originally owned by Mr. Hughes, but Mr. Hughes subdivided the property and sold the southern portion to Robert Lauer the owner of permit 95-17170. This changed the subdivision lot description that was on the permit for the place of use to Lot 1, Block 1, of Hughes Acres Subdivision, and the point of diversion description was changed to Lot 2, Block 1, Hughes Acres Subdivision.

This permit is a standard domestic permit that is limited to diversion rate and volume described in Administrative Processing Memorandum #22. With the two domestic uses from the separate water rights being diverted from the same well, we cannot call this use a domestic use as described in 42-111 unless both permits were limited to 13,000 gallons per day. Therefore, they are entitled to the full volume described in Administrative Memorandum #22 of 1.2 af for each water right.

Conditions 2 (174), 3 (01R) and 4 (175) need to be carried over to licensing, since when this permit and permit 95-17170 are combined, they are not limited to 13,000 gpd and don't qualify as a 42-111 domestic use. Therefore, these conditions are needed to inform the permit holders of these two water rights that they may need to measure in the future dependent upon how the future water district will be established. Condition 1 (046) will be removed at licensing. Condition 7 (X59) will be changed to describe the new tax parcel description of Lot 2, Block 1, of Hughes Acres Subdivision. Condition X60 will also need to be added to show that the place of use is in Lot 1, Block 1, of Hughes Acres Subdivision. Condition F06 should also be added to show that water right 95-169 and 95-17170 are diverted from the same point of diversion. The remainder of the conditions will be carried forward to licensing as is standard.

Have conditions of permit approval been met? X Yes \_\_\_\_\_ No

**I. RECOMMENDATIONS****1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| Domestic              | 01/01 to 12/31       | 0.04 CFS              | 1.2 AF               |
| <u>Totals:</u>        |                      | 0.04 CFS              | 1.2 AF               |

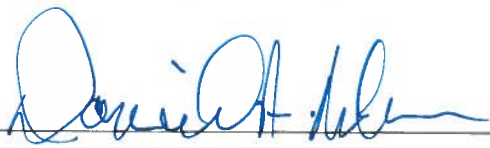
**2. Recommended Amendments**

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

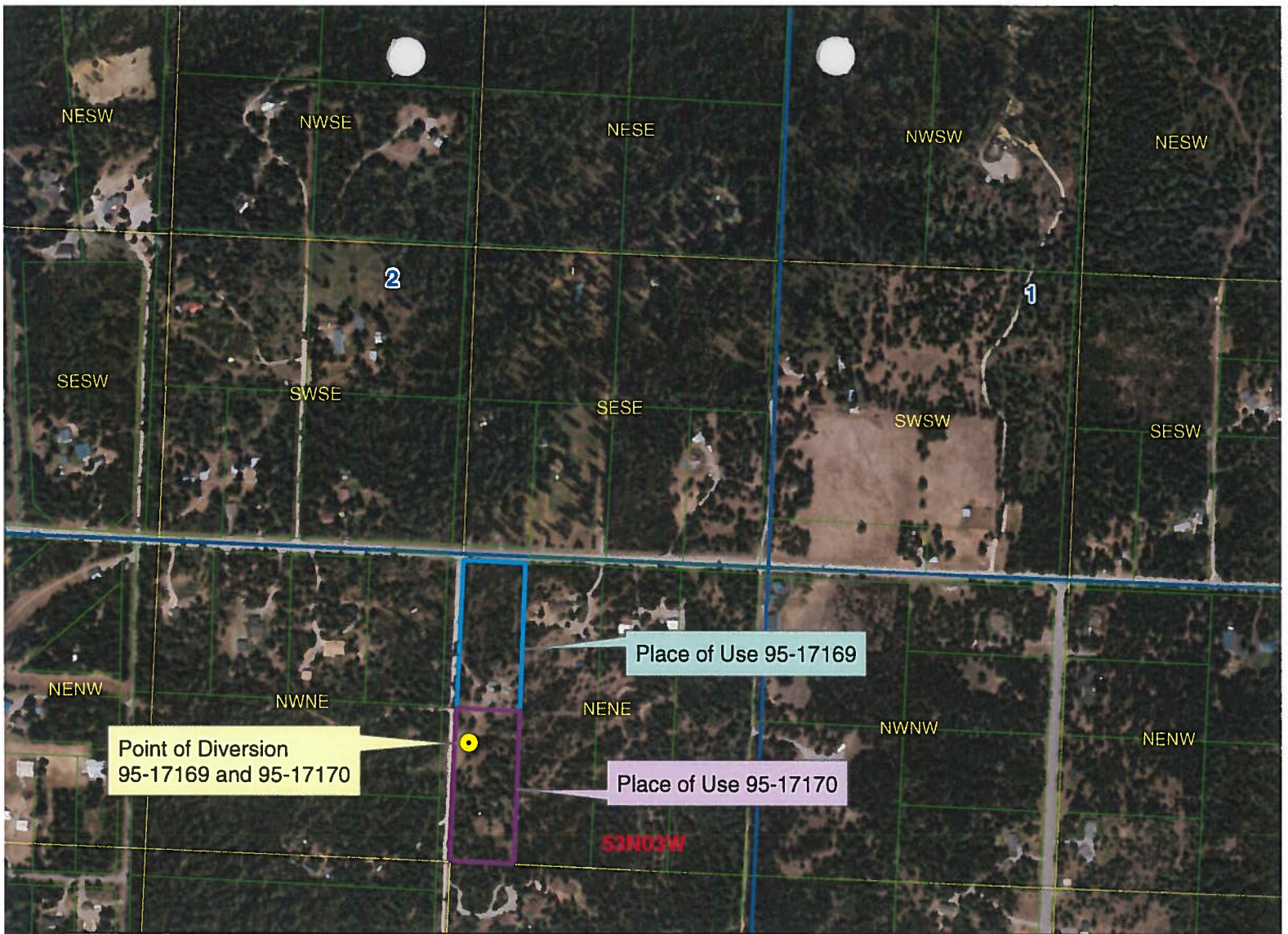
☐ Change P.U. as reflected above    ☐ Add P.U. as reflected above    ☐ None

Other: <   >

**J. AUTHENTICATION – DANIEL A. NELSON – STAFF HYDROLOGIST**

Field Examiner's Name  Date 10-20-16

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



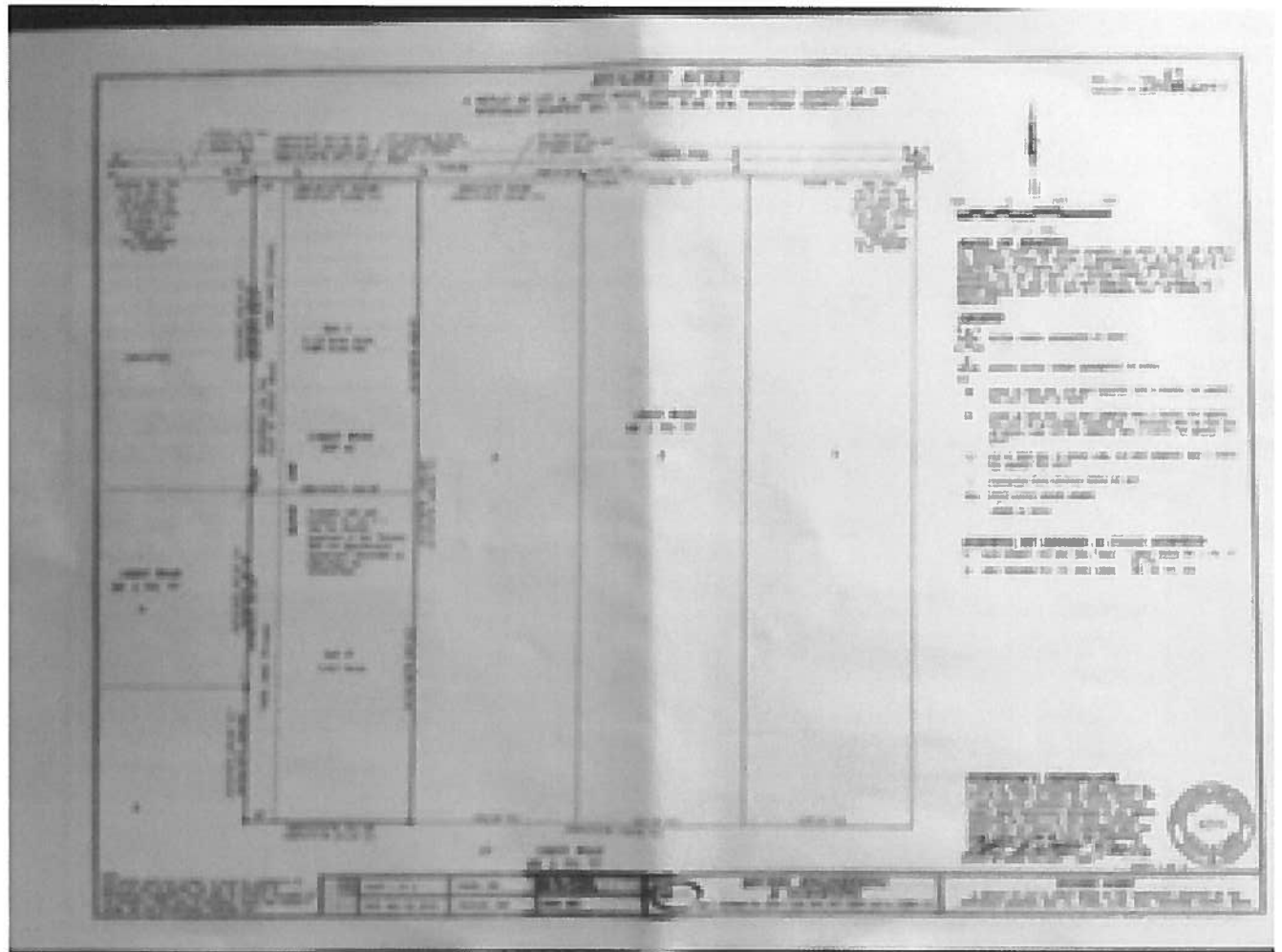
### Field Exam Map for 95-17169 and 95-17170 -- by Dan Nelson

Two tax parcels share a common well for domestic and yard irrigation for each home. Each homeowner filed there own permit.

Please Note: The tax lots bleed into the NWNE, but this portion of the tax parcel is marked as a road easement, so it wouldn't be serviced by the well. I did not include the portion of the parcel in the NWNE in the Place of Use.

# Kootenai County Parcel Maps for permits 95-17169 and 95-17170





Plat Map Permit 95-17169 and 95-17170

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

## 1. WELL TAG NO. D D0069930

Drilling Permit No 880073  
Water right or injection well # \_\_\_\_\_

## 2. OWNER:

Name Bob Lauer  
Address 10300 Howard Road  
City Athol State ID Zip 83801

## 3. WELL LOCATION

Twp. 53 North ☒ or South ☐ Rge. 03 East ☐ or West ☒  
Sec 11 1/4 NE 1/4 NE 1/4  
10 acres 40 acres 160 acresGovt Lot \_\_\_\_\_ County KootenaiLat 47 ° 57.8065 (Deg and Decimal Minutes)Long 116 ° 39.8079 (Deg and Decimal Minutes)Address of Well Site 10300 Howard RoadTiara Lane second lot on left City Athol

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 ft3) | Placement Procedure |
|---------------|-----------|---------|-----------------------|---------------------|
| Dry bentonite | 0         | 20      | 650                   | Poured              |

## 8. CASING/LINER:

| Diameter (Nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing Liner                        | Threaded                 | Welds                               |
|--------------------|-----------|---------|----------------|----------|-------------------------------------|--------------------------|-------------------------------------|
| 6                  | 2         | 420     | 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"/>            |

Was drive shoe used? ☒ Y ☐ N Shoe Depths Ring 420

## 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 |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
| 400       | 420     | 0.25      | 120       | 6                  | Steel    | 250               |

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

Packer ☐ Y ☒ N Type \_\_\_\_\_

## 10. FILTER PACK

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft3) | Placement Method |
|-----------------|-----------|---------|-----------------------|------------------|
|                 |           |         |                       |                  |

## 11. FLOWING ARTESIAN:

Flowing Artesian ☐ Y ☒ N Artesian Pressure (PSIG) \_\_\_\_\_Describe control device welded cap

## 12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 365 Static water level (ft) 365  
Water Temp (°F) \_\_\_\_\_ Bottom hole temp (°F) \_\_\_\_\_

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

Well test:

Test method:

| Drawdown (feet) | Discharge or yield (gpm) | Test Duration (minutes) | Pump                     | Bailer                   | Air                                 | Flowing Artesian         |
|-----------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| 20              | 60                       |                         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                 |                          |                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Water quality test or comments: Clear cold no smell

## 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 |
| 10            | 0         | 2       | Soft Topsoil Black                                                      |       | X |
| 10            | 2         | 20      | Medium Sand & Gravel                                                    |       | X |
| 8             | 20        | 187     | Medium Sand & Gravel                                                    |       | X |
| 8             | 187       | 300     | Dense Sand Gravel Clay Light Brown                                      |       | X |
| 8             | 300       | 420     | Loose Sand & Gravel Light Brown                                         | X     |   |

RECEIVED

MAY 25 2016

DWR/NORTH

UNITED CROWN

PUMP &amp; DRILLING

3125 W Hayden Ave. Hayden ID 83835  
Office (800) 682-1641 (208) 772-7867Completed Depth (Measurable): 420Date Started: 5/20/2016 Date Completed: 5/24/2016

## 14. DRILLER'S CERTIFICATION:

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

Company Name United Crown Pump & Drilling Co No 836\*Principal Driller Jason Beckham Date 5/25/2016\*Driller [Signature] Date 5-25-2016

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

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

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

53N 03W 11