

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

**A. GENERAL INFORMATION**

Permit No: 94-7689

Exam Date: 11/9/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- a. Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >

2. Current Owner: Name: Charles R Carlson
- Owner-of-Record Correct? ☒ Yes ☐ No
- Address-of-Record Correct? ☒ Yes ☐ No
- If No: <Address>

3. Beneficial Use Fees have been paid: ☐ Yes ☒ No Receipt No: fee not required

**4. SOURCE**

Ground water

Method of Determination: aerial photography and drillers report.

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
|                 |        |                |       |
|                 |        |                |       |

Comments:

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
|                 |        |                |       |
|                 |        |                |       |

Comments:

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

| Source       | Govt. Lot | ¼ | ¼  | ¼  | Sec. | TWP | RGE |     | County   |
|--------------|-----------|---|----|----|------|-----|-----|-----|----------|
| Ground water | 3         |   | NW | NE | 6    | 48N | 01E | B.M | KOOTENAI |
|              |           |   |    |    |      |     |     |     |          |

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) OF USE:** Use: Domestic

| TWP | RGE | Sec | NE |     |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW  | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 48N | 01E | 6   |    | D   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    | L 3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography.

Change in POU? ☐ Yes ☒ No      Amendment Required? ☐ Yes ☒ No

3.

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. The pipe size and pump horsepower is unknown.

☒ 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 |
|------------------------------------------|------------|---------|------------------|-----------|-----------------------------------|
| Unknown.                                 |            | Unknown |                  | Unknown   | 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 |
|--------------------------|------|------|-----------|------------|------|-------------|
|                          |      |      |           |            |      |             |
|                          |      |      |           |            |      |             |

2. Measurements: In-office field exam. No measurements taken

**E. FLOW CALCULATIONS**

Permit allowed = 0.04 cfs

License recommended for 0.04cfs.

☐ Additional Computation Sheets Attached

**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

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

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

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

Volume Calculations for Other Uses: Domestic use = 1.2 af

**G. PURPOSE OF USE**

Irrigation ☐ Yes ☒ No      # Stock none

Domestic # of Homes 1 home

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

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

**H. NARRATIVE/REMARKS/COMMENTS**

Permit 94-7689 authorized a diversion from ground water of 0.04 cfs for domestic, irrigation and stockwater purposes. Based on the small permitted diversion rates, this permit qualifies for an in-office field exam.

The legal description of the POU was used to locate the property. Available taxlot information shows that Charles R Carlson is owner of the property. The physical address of the property is 31973 E Dudley Rd, Cataldo ID. A map identifying the POU was submitted with the application and the shape outlined on that map matches the taxlot boundary. The entire taxlot is approximately 1.8 acre.

The uses developed under this permit are less than the permit authorized and would fit within established standards for domestic use.

- The 'proof' statement listed ¼ acre of developed irrigation. Aerial photography confirms that less than ½ acre has been irrigated to date.
- The 'proof' statement listed no developed stockwater use.
- The well may not be capable of delivering more than the standard rate.

If Mr. Carlson had not filed for a water right, IDWR would have recognized ½ acre of irrigation and internal, domestic water uses. Therefore, I am recommending this right be licensed with standard rates and volumes for domestic use.

I created the water right POD by re-selecting the spatial data point given in permit layer. The well log was located through a query of the Well Construction database. At my request, the UIC group personnel associated the Well Drillers Report with the POD address and shape.

I created the POU shape based on a review of available aerial photography.

Overlap review yielded no other water rights sharing the POD or POU and no pending NIA claims or recommendations.

Have conditions of permit approval been met? ☒ 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              | 01/01-12/31          | 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 ☐ Other

Other: < >

**I. AUTHENTICATION**

Field Examiner's Name Michele Edl Date November 9, 2015

Reviewer *Camila Skaggs* Date 11-9-2015



RECEIVED

AUG 07 1996

IDAHO DEPARTMENT OF WATER RESOURCES

## WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

096629

| Office Use Only |     |     |      |
|-----------------|-----|-----|------|
| Inspected by    |     |     |      |
| Twp             | Rge | Sec |      |
| 1/4             | 1/4 | 1/4 |      |
| Lat             | :   | :   | Long |

## 1. DRILLING PERMIT NO. 94-96-N-016-000

Other IDWR No. \_\_\_\_\_

## 2. OWNER

Name CARLSON, CHARLES

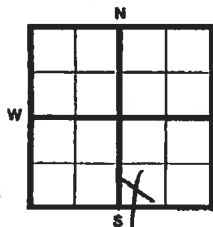
Well Number: \_\_\_\_\_

414

Address PO BOX 604City PINEHURST State ID Zip 83850

## 3. LOCATION OF WELL by legal description

sketch map location must agree with written location

Twp. 49 ☒ North or ☐ SouthRge. 01 ☒ East or ☐ WestSec. 31 1/4 SW 1/4 SE 1/4Gov't Lot \_\_\_\_\_ County SHOSHONE

Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Address of Well Site LATOUR CRK RD TO  
City CATALDO

(Give at least name of road + Distance to Road or Landmark)

Lt. \_\_\_\_\_ Blk. \_\_\_\_\_ 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    | 30 | 18 BAGS         | OVERBORE |
|                  |      |    |                 |          |
|                  |      |    |                 |          |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 195Was drive shoe seal tested? ☒ Y ☐ N How? Drove into rock

## 8. CASING/LINER:

| Diameter | From | To  | Gauge | Material | Casing                              | Liner                               | Welded                              | Threaded                 |
|----------|------|-----|-------|----------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 6        | +2   | 195 | .250  | STEEL    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4        | 184  | 264 | .200  | PVC      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|          |      |     |       |          |                                     |                                     |                                     |                          |

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

## 9. PERFORATIONS/SCREENS

☒ Perforations Method SKILLSAW☐ Screens Screen Type \_\_\_\_\_

| From | To  | Slot Size | Number | Diameter | Material | Casing                   | Liner                               |
|------|-----|-----------|--------|----------|----------|--------------------------|-------------------------------------|
| 224  | 264 | 1/8X4     | 140    | 4        | PVC      | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|      |     |           |        |          |          |                          |                                     |
|      |     |           |        |          |          |                          |                                     |

## 10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

100 ft. below ground Artesian pressure \_\_\_\_\_ lb.

Depth flow encountered \_\_\_\_\_ ft. Describe access port or control devices: \_\_\_\_\_

## 11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

| Yield gal./min. | Drawdown | Pumping Level | Time |
|-----------------|----------|---------------|------|
| 15 GPM          |          |               |      |
|                 |          |               |      |
|                 |          |               |      |

Water Temp. \_\_\_\_\_ Bottom Hole Temp \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

Depth first Water encountered \_\_\_\_\_

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

| Bore<br>Diam | From | To  | Remarks: Lithology, Water Quality, Temperature | Water                               |                                     |
|--------------|------|-----|------------------------------------------------|-------------------------------------|-------------------------------------|
|              |      |     |                                                | Y                                   | N                                   |
| 10           | 0    | 6   | Topsoil W/Cobble                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10           | 6    | 18  | Shale Gray Hard                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 18   | 32  | Shale Gray Hard                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 32   | 38  | Shale Fractured Gray & Brown                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 38   | 57  | Shale Gray & Green                             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 57   | 78  | Shale Badly Fractured broken Gray &            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 78   | 130 | Shale Gray & Green Hard                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 130  | 151 | Shale Broken W/Clay Gray & Brown 2             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8            | 151  | 163 | Shale Gray Hard                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 163  | 178 | Shale Badly Fractured                          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8            | 178  | 195 | Shale Grayish Green                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6            | 195  | 248 | Shale Grayish Green                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6            | 248  | 254 | Shale Fractured W/Water apx. 15 gpm            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 6            | 254  | 264 | Shale Gray Hard                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|              | 0    | 0   | Note: 1 Weld on Cap                            | <input type="checkbox"/>            | <input type="checkbox"/>            |
|              | 0    | 0   | Granite/Shale                                  | <input type="checkbox"/>            | <input type="checkbox"/>            |

Completed Depth 264' (Measurable)Date: Started 06/25/96 Completed 06/27/96

## 13. DRILLER'S CERTIFICATION

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

Firm Name H2O WellService Inc. Firm No. 448Firm Official [Signature] Date 7-31-96and Supervisor or Operator [Signature] Date 7-30-96

(Sign Once if Firm Official and Operator)

SWSE 31 4N 1E