



State of Idaho

## DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

October 22, 2013

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

CORTLON DEVELOPEMENT  
1500 W BARRETT  
MERIDIAN ID 83642

RE: Water Right Permit No. 63-31987

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

☒ **Points of Diversion** - Added 2<sup>nd</sup> well to water right

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at 334-2190.

Sincerely,

KAY WALKER  
Sr. Water Resource Agent

Enclosures: Amendment Application & Layout

*11-4-13  
Mr. Walker has  
been out of country -  
will submit amendment  
and fee in next  
couple of days.  
KW*

## Music, Vicky

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**From:** cswalker@q.com  
**Sent:** Friday, September 27, 2013 10:38 AM  
**To:** Music, Vicky  
**Subject:** Petition for reconsideration of preliminary order  
**Attachments:** water resource doc #1.JPG; water doc #2.JPG; water doc #3.JPG

Vicky,

Attached are three documents that have been scanned, hopefully, with the information you are looking for to void the preliminary order on permit no. 63-31987 for Cortlon Development. Based on this new information, please call me and let me know if this is what you need to void this. If you have any questions, please call me.

Thank You,

Cortland Walker 941-2255  
Cortlon Development

**TREASURE VALLEY PUMP**  
 Jack Young, Pump Division Manager  
 Ph. 495-2151 off. 338-4923pg. 941-2134cell

**RE:** **SERVICE BILLING**  
**DATE SENT:** 3-28-06  
**Customer:** C W Const. **ATTENTION:** Courtland  
**Billing Address:**  
**Phone:** Courtland @ 888-1851 off. Fax: 888-7165

**Work site Address:** Artesian Well on McDermott Rd., At St. James Place Sub. Fire Protection Wells.

**Date started:** 6-27-05  
**Date completed:** 3-28-06

**Customer complaint:** No complaint, Just needed a fire protection system installed to appease the Nampa Fire District.

|                          |          |                      |     |
|--------------------------|----------|----------------------|-----|
| <b>Well #1 Diameter:</b> | 6"       | <b>#2 Well Dia.:</b> | 8"  |
| <b>Well depth:</b>       | 350+'    | <b>Static level:</b> | 14' |
| <b>Static level:</b>     | Artesian | <b>Draw down:</b>    |     |
| <b>Pump set:</b>         | 63'      | <b>Pump set @:</b>   | 42' |

**Work completed:** Install pumps in both wells and hook them up to a fire hydrant and to the pump house. Install the fire hydrant and pour concrete thrust blocks at strategic points. Install all plumbing fittings to support the VFD drives and install and hook up the Aqavar VFD's Program the VFD's and run flow tests to target programming. Meet with Nampa Fire Dept. and finish testing.

**Materials used to perform the job:**

- 1- New Goulds 6DHHC- 2stg. 10hp 400gpm Texas turbine w/ FE 230v motor:
- 1- Used Crown 2stg Sub Turbine pump w/ FE 10hp 24gpm and 230v motor:
- 2- Goulds Aquavar VFD control panels:
- 63' of 3" galvanized drop pipe and 42' of 4" galvanized drop pipe:
- Submersible wire:
- 1- 3" check valve / 1- 4" check valve / 1- 4" Maas 8MJ4 weld-on pit-less:
- 1- 5' Approved Yellow Fire Hydrant w/ ductile iron fittings and mega-lug anchors:
- Pressure relief valves, Ball valves, Tees and elbows for hookup:

Above Materials total as Estimated Bid:

\$22,005.85

Labor as Estimated Bid:

\$1,200.00

Total as estimated:

\$24,005.85

Additional supplies and Labor at cost plus to complete system:

23205.85

Pressure Relief valves {2} Cement for thrust blocks, Additional Fittings needed:

\$445.00

Excavation of trench for pipe lines and hydrant:

\$450.00

Extra Labor for start up and testing:

\$510.00

Total Due:

\$25,410.85

\$24,610.85

Sherry, please send this billing out.

Thanks, Jack

**TREASURE VALLEY PUMP**  
**Jack Young, Pump Division Manager**  
 Phone: 495-2151 off. 941-2134 cell 338-4923 pg. 495-2151 fax

ATTENTION: CW Const. DATE: 5-18-05

Phone: Courtland @: 888-1851 off. cell 888-7165 fax

Re: BID TO: Installation of double well fire protection pumping systems.

|                    |         |               |          |
|--------------------|---------|---------------|----------|
| Well #1 depth:     | 300+'?  | Static level: | Artesian |
| Total flow volume: | 450+gpm | Pump set:     | 42'      |
| Drawdown:          | 20' ?   | Liner:        | no       |
| Well # 2 depth:    | 60'     | Static level: | 10'      |
| Total Flow volume: | 125gpm  | Pump set:     | 42"      |

Install double pump/pressure system in wells and hook up to VFD drives and Fire Hydrant:

Materials list:

- 1- Goulds 6DHHC-2stg 10hp 400gpm pump:
- 1- used Crown 10hp 2stg 240gpm pump:
- 2- Goulds Aquavar vari-speed control panel:
- 84' x 4" Galv. Drop pipe:
- 100' x 8-3w/grd sub wire:
- 2- 4" Check valves:
- 1- 4" weld on Pitless Adaptor:
- Ductile iron fittings and pipe for hook up:
- 1- 5' approved fire hydrant:
- Misc. fittings to cap off system:
- Permits:

Total on Materials: \$22,005.85

Labor: \$1200.00

Total estimated Bid: \$24,005.85

Any other Questions, please call the above numbers and ask for Jack.

Thank you, Jack Young

Original ↑  
 Estimate w/  
 Pencil'd IN →  
 completion

ADD- 45<sup>00</sup> - Fire Hyd adaptor:  
 ADD- 150<sup>00</sup> FOR 2 PRV valves  
 ADD- 50<sup>00</sup> Cement For Thrust Blocks  
 ADD- 450<sup>00</sup> Excavation  
 ADD- 200<sup>00</sup> Additional Fittings  
 ADD- 510<sup>00</sup> Start up + Testin  
1,115.00

## City of Nampa Fire Dept Admin

## Hydrants by Location

Hydrant Number = "BB19-008P"

Hydrant No: BB19-008P

Location: 16787 N MCDERMOTT RD /NAMPA, 83687

Main ID:

Zone: BB19

District: RURAL Station: N03

Owner:

Phone:

Make: U

Model:

Year: 0

Barrel Size: 5.25

Length: 0.00

Last Flow Test:

gpm

Main Size: 0.00

Type: U

Valve Loc:

Valve Size: 6.00

Steamer: 4.50

[ ] Out of Service

Total Hydrants Listed: 1

Fax to: Cortland Walker

888-7165

To Vicki - TDK

234-2348

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

**A. GENERAL INFORMATION**

Permit No: 63-31987

Exam Date: 7/9/2013  
AND 9/20/12

1. Current Owner: CORTLON DEVELOPEMENT  
1500 W BARRETT  
MERIDIAN ID 83642  
(208)888-1851
2. Accompanied by: CORTLAND WALKER  
Phone No:  
Address:  
Relationship to Permit Holder: SAME

3. SOURCE TRIBUTARY  
GROUND WATER

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 63-32108
2. Other water rights with the same point of diversion: 63-32108

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

|               |            |         |          |               |
|---------------|------------|---------|----------|---------------|
| GROUND WATER  | NE1/4NE1/4 | Sec. 8, | Twp 03N, | Rge 01W, B.M. |
| CANYON County |            |         |          |               |
| GROUND WATER  | NE1/4NE1/4 | Sec. 8, | Twp 03N, | Rge 01W, B.M. |
| CANYON County |            |         |          |               |

Method of Determination: GARMIN GPS: WELL 1 [NO TAG] N 43.61761, W -116.4738; WELL 2 [D0039014] N 43.61761, -116.47389

2.

**PLACE OF USE:** FIRE PROTECTION

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    |        |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | Totals |
| 03N | 01W | 8   | X  |    |    | X  |    |    |    |    |    |    |    |    |    |    |    |    |        |

Method of Determination: AERIAL PHOTOGRAPHS

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<br/>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<br/>Size</u> |
|--------------------------------------|-------------------|-----------|-------------------------|------------------|----------------------------------------------|
| _WELL 1__                            | unknown           | 10_       | unknown – FE 230v       | Goulds           | model: 6DHHC – 2 stage                       |
| _WELL 2__                            | unknown           | 10        | unknown – FE 230v       | Crown            |                                              |

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

**D. FLOW MEASUREMENTS**

1.

| <u>Measurement<br/>Equipment</u> | <u>Type</u> | <u>Make</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Size</u> | <u>Calib. Date</u> |
|----------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
|----------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|

2. Measurements: NONE TAKEN

**E. FLOW CALCULATIONS** \_\_\_\_\_ Additional Computation Sheets Attached

[1] Theoretical calculation

[a] for well 1: 10 hp pump, Z = pump set at 63' – about 15' = 48 feet, 70% efficiency and 40 psi:

$$8.8 \times 0.7 \times 10 / 48 + [2.31 \times 40] = 61.6 / 140.4 = 0.438 = 0.44 \text{ cfs}$$

[b] for well 2: 10 hp pump, Z = 42' – 15 = 27', 70% efficiency, 40 psi:

$$8.8 \times 0.7 \times 10 / 27 + [40 \times 2.31] = 61.6 / 119.4 = 0.516 \text{ cfs} = 0.52 \text{ cfs}$$

0.44 + 0.52 = 0.96 cfs. This is within 75% of the permitted 1.12 so recommend 1.12 cfs

Measured Method:

[2] According to Treasure valley Pump, well 1 produces &gt; 450 gpm and well 1 produces over 125 for a total of 575 gpm.

$$575 / 448.8 \text{ gallons per minutes per cfs} = 1.28 \text{ cfs}$$

**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: NOT APPLICABLE

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

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

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

2. Volume Calculations for Other Uses: NOT APPLICABLE FOR FIRE PROTECTION

**G. NARRATIVE/REMARKS/COMMENTS**

The permit was issued for a fire protection use, for 1.12 cfs, required by the City of Nampa. The source is groundwater. The permit includes only one well, the new well. However, the old artesian well is the primary fire protection well and this second well is the back up. It kicks on when the flow and pressure of the artesian well falls. So a permit amendment is needed to add the second well to the license.

I was onsite on 9/20/12 for a field exam for the artesian well and was not aware of this permit, so I conducted a second exam on 7/9/2013. Mr. Walker accompanied me on the first exam.

The artesian well is 6" in diameter, and according to the well log, flows 300 gpm. The well is 355 feet deep. The second well is 16" in diameter and is 50 feet deep. Mr. Walker provided information about the pumps from Treasure Valley Pump. The fire protection system has not been tested or used since its installation, so this is the only information available.

According to the information provided, both wells are fitted with 10 hp Gould pumps. Steel pipe, 3" and 4' in diameter, plumbs the well together, and to the hydrant. The pump company information states that the artesian well produces in excess of 450 gpm and well 2 produces 125 gpm. The total is 575 gpm or 1.28 cfs.

Theoretical calculations resulted in a flow rate of 0.44 cfs for well 1 and 0.52 cfs for well 2, for a total system capacity of 0.96 cfs. The permitted quantity of 1.12 cfs is between the two calculations and is the quantity recommended for licensing.

There are no POU or POD overlaps for well 2, but well 1 is also used for the POD for 63-32108, irrigation within the subdivision. No combined use conditions are necessary.

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

**H. RECOMMENDATIONS**

- |                         |                 |
|-------------------------|-----------------|
| 1) Permit amount        | <u>1.12</u> cfs |
| 2) Beneficial use limit | <u>N/A</u> cfs  |
| 3) System measurement   | <u>1.28</u> cfs |
| 4) Proof fee amount     | <u>2</u> cfs    |

**H. RECOMMENDATIONS****1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| FIRE PROTECTION       | 01/01 to 12/31       | 1.120 CFS             |                      |
| <u>Totals:</u>        |                      | 1.120 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 ☐ Other

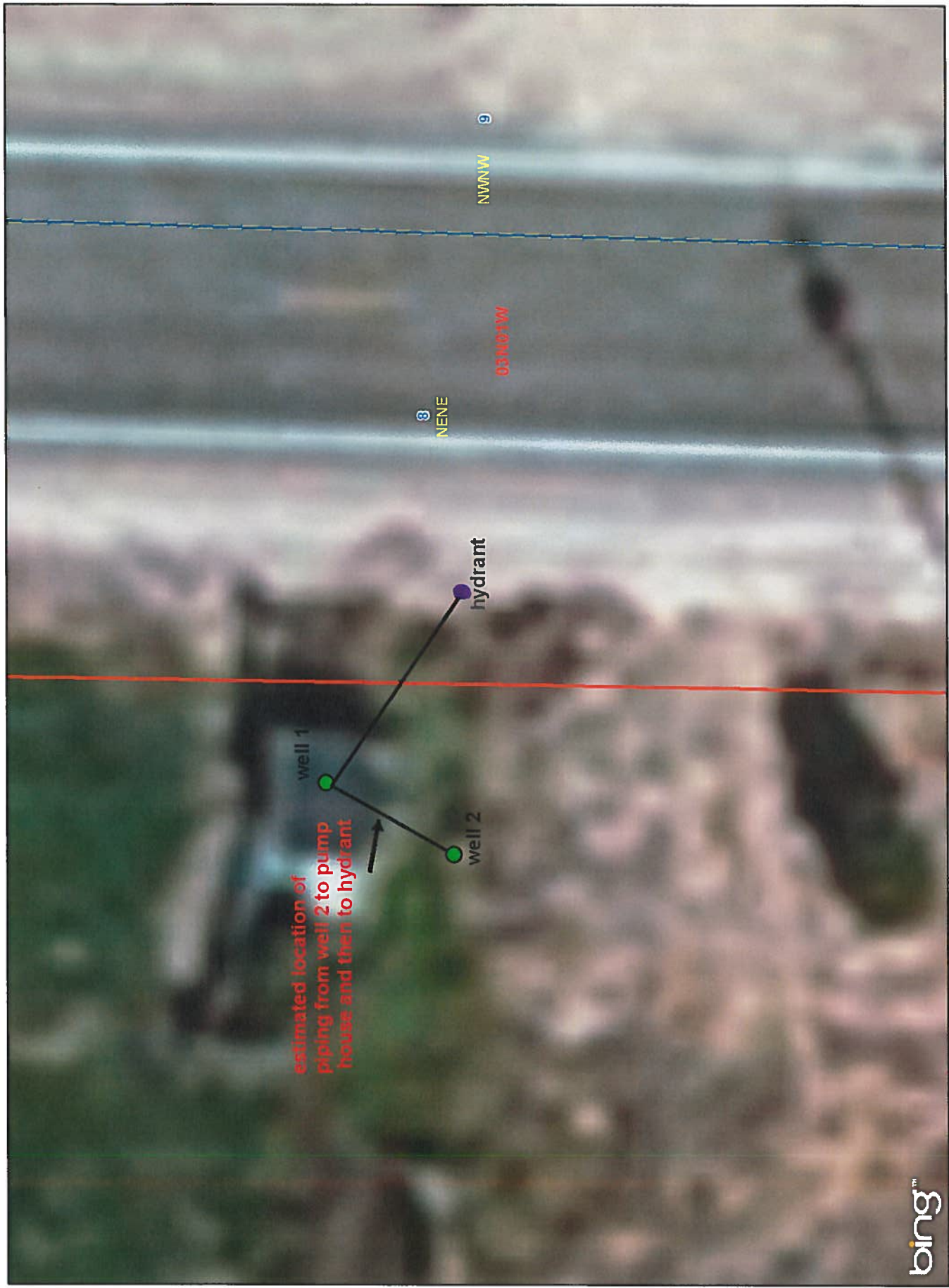
**I. AUTHENTICATION**

Field Examiner's Name W. J. Chmielewski Date 10-17-13

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



63-31987- 2011 BING PHOTOGRAPHY -- St James Estates subdivision. POU outlined in red. PODs are the green points.  
See separate enlargement of the PODs.



63-31987-- 2011 BING PHOTOGRAPHY -- expanded view of the PODs and delivery system

# WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

R. C. 11.1

## 1. WELL OWNER

Name Carlson, Loveland  
Address 77 Perditions, Idaho  
Owner's Permit No. \_\_\_\_\_

## 7. WATER LEVEL

Static water level \_\_\_\_\_ feet below land surface  
Flowing? ☒ Yes ☐ No G.P.M. flow \_\_\_\_\_  
Artesian closed-in pressure \_\_\_\_\_ p.s.i.  
Controlled by: ☐ Valve ☐ Cap ☐ Plug  
Temperature \_\_\_\_\_ of. Quality \_\_\_\_\_

## 2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement  
☐ Abandoned (describe method of abandoning) \_\_\_\_\_

## 8. WELL TEST DATA

☐ Pump ☐ Baller ☒ Air ☐ Other \_\_\_\_\_

| Discharge G.P.M. | Pumping Level | Hours Pumped |
|------------------|---------------|--------------|
| 300              | Flowing       |              |
|                  |               |              |
|                  |               |              |

## 3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal  
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection  
☐ Other \_\_\_\_\_ (specify type)

## 9. LITHOLOGIC LOG

| Hole<br>Diam. | Depth |     | Material         | Notes |
|---------------|-------|-----|------------------|-------|
|               | From  | To  |                  |       |
| 7"            | 2     | 2   | Brown topsoil    |       |
| 9"            | 2     | 10  | Brown clay       |       |
| 9"            | 10    | 20  | Brown sandy silt |       |
| 6"            | 20    | 50  | Brown sand       |       |
| 6"            | 50    | 62  | Brown sand       |       |
| 6"            | 62    | 64  | Brown sand       |       |
| 6"            | 64    | 98  | Brown sand       |       |
| 6"            | 98    | 110 | Brown sand       |       |
| 6"            | 110   | 185 | Brown sand       |       |
| 6"            | 185   | 190 | Brown sand       |       |
| 6"            | 190   | 210 | Brown sand       |       |
| 6"            | 210   | 212 | Brown sand       |       |
| 6"            | 212   | 240 | Brown sand       |       |
| 6"            | 240   | 244 | Brown sand       |       |
| 6"            | 244   | 250 | Brown sand       |       |
| 6"            | 250   | 264 | Brown sand       |       |
| 6"            | 264   | 276 | Brown sand       |       |
| 6"            | 276   | 286 | Brown sand       |       |
| 6"            | 286   | 288 | Brown sand       |       |
| 6"            | 288   | 308 | Brown sand       |       |
| 6"            | 308   | 312 | Brown sand       |       |
| 6"            | 312   | 320 | Brown sand       |       |
| 6"            | 320   | 323 | Brown sand       |       |
| 6"            | 323   | 335 | Brown sand       |       |
| 6"            | 335   | 339 | Brown sand       |       |
| 6"            | 339   | 344 | Brown sand       |       |
| 6"            | 344   | 349 | Brown sand       |       |
| 6"            | 349   | 350 | Brown sand       |       |
| 6"            | 350   | 358 | Brown sand       |       |
| 6"            | 358   | 358 | Brown sand       |       |

## 4. METHOD DRILLED

☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary  
☐ Cable ☐ Dug ☐ Other \_\_\_\_\_

## 5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other \_\_\_\_\_

Thickness \_\_\_\_\_ Diameter \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
Inches \_\_\_\_\_ Inches \_\_\_\_\_ feet \_\_\_\_\_ feet  
Inches \_\_\_\_\_ Inches \_\_\_\_\_ feet \_\_\_\_\_ feet  
Inches \_\_\_\_\_ Inches \_\_\_\_\_ feet \_\_\_\_\_ feet

Was casing drive shoe used? ☒ Yes ☐ No

Was a packer or seal used? ☐ Yes ☒ No

Perforated? ☐ Yes ☒ No

How perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation \_\_\_\_\_ Inches by \_\_\_\_\_ Inches

Number \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
perforations \_\_\_\_\_ feet \_\_\_\_\_ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name \_\_\_\_\_

Type \_\_\_\_\_ Model No. \_\_\_\_\_

Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel \_\_\_\_\_

Placed from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Surface seal depth \_\_\_\_\_ Material used in seal: ☐ Cement grout

☐ Puddling clay ☒ Well cuttings

Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing

Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent

☐ Cemented between strata

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

## 6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name \_\_\_\_\_

Lot No. \_\_\_\_\_ Block No. \_\_\_\_\_

## 10.

Work started 1/27/81 finished 2/10/81

## 11. DRILLER

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

Firm Name W. R. Smith Firm

Address 105 N. 1st St.

Signed by (Firm Official) \_\_\_\_\_

and \_\_\_\_\_

(Operator)

USE ADDITIONAL SHEETS IF NECESSARY. FORWARD THE WHITE COPY TO THE DEPARTMENT OF WATER RESOURCES.

JUL 16 2004

WATER RESOURCES  
WESTERN REGION

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

832469

1. WELL TAG NO. D 0039014

Drilling Permit No. 887922-832469

Water right or injection well # 63-31987

2. OWNER

Name Cortlon Development

Address 1500 W. Barrett

City Meridian State ID Zip 83642

3. WELL LOCATION:

Twp. 3 North ☒ or South ☐ Rge. 1 East ☐ or West ☒

Sec. 8 1/4 NE 1/4 NE 1/4  
10 acres 40 acres 160 acres

Gov't Lot County Canyon

Lat. (Deg. and Decimal minutes)

Long. (Deg. and Decimal minutes)

Address of Well Site St. James Loop

City Nampa

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

Lot. Blk. Sub. Name St. James Place

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well  
☐ Abandonment ☐ Other

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Auger

7. SEALING PROCEDURES

| Seal material | From (ft) | To (ft) | Quantity (lbs or ft <sup>3</sup> ) | Placement method/procedure |
|---------------|-----------|---------|------------------------------------|----------------------------|
| Bentonite     | 0         | 20'     | 4 Yds.                             | Poured                     |
| Pea Gravel    | 20'       | 50'     | 6.75 Yds                           | Poured                     |

8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing                              | Liner                    | Threaded                 | Welded                              |
|--------------------|-----------|---------|----------------|----------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| 16"                | +2        | 30      | .250           | Steel    | <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 Johnson

Method of installation

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
| 30        | 50      | .020      |           | 16                 | SS       |                   |

Length of Headpipe 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 |
|-----------------|-----------|---------|------------------------------------|------------------|
|-----------------|-----------|---------|------------------------------------|------------------|

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) 10' Static water level (ft) 12'

Water temp. (°F) Bottom hole temp. (°F)

Describe access port Cap

Well test:

Test method:

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) | Pump                     | Bailer                   | Air                      | Flowing artesian         |
|-----------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| NO              | TEST                     |                         | <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 |
|----------------|-----------|---------|--------------------------------------------------------------------------|-----------|
| 36             | 0         | 1       | Top Soil                                                                 | X         |
| 36             | 1         | 3       | Hard Pan                                                                 | X         |
| 36             | 3         | 10      | Brown Clay                                                               | X         |
| 36             | 10        | 45      | Gravel                                                                   | X         |
| 36             | 45        | 50      | Brown Clay                                                               |           |

RECEIVED

JUL 18 2008

WATER RESOURCES  
WESTERN REGION

Completed Depth (Measurable) 50'

Date: Started 4/14/2005 Completed 4/14/2005

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 Treasure Valley Drilling Co. No. 560

\*Principal Driller Date 4/21/2005

\*Driller Date

\*Operator II Date

Operator I Date

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

SCANNED

SEP 18 2013

63-31987 – Cortland Development field exam photographs



The old artesian well seen here, located in the pump house, is one of the PODs for fire protection.



The newer well and second POD is seen front center. The pump house is seen in the left. The wells are plumbed to the hydrant seen in background .



Both of these photographs are views of the POU, St. James Place Estates subdivision. It is not completely developed.