

81539

Ident. No. 95-17292

FORM 022 REV. 10-16

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STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**APPLICATION FOR PERMIT**  
To appropriate the public waters of the State of Idaho

**IDWR / NORTH**

1. Name of applicant(s) RON PRATTE Phone 702-378-5500  
Name connector (check one): ☐ and ☐ or ☐ and/or  
Mailing address 4400 W EARHART WAY City CHANDLER  
State AZ ZIP 85226 Email PRATTEPX1@GMAIL.COM
2. Name of representative, if any STEPHANIE BLALACK Phone 208-667-1214  
Mailing address PO BOX 580 City COEUR D ALENE  
State ID ZIP 83816 Email SBLALACK@VERDISNW.COM
- a. ☒ Send all correspondence for this application to the representative and not to the applicant OR  
☐ Send original correspondence to the applicant and copies to the representative.
- b. ☐ The representative may submit information for the applicant but is not authorized to sign for the applicant OR  
☒ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation.
3. Source of water supply GROUNDWATER which is a tributary of \_\_\_\_\_
4. Location of point(s) of diversion:

| Twp | Rge | Sec | Govt Lot | 1/4 | 1/4 | 1/4 | County   | Source      | Local name or tag # |
|-----|-----|-----|----------|-----|-----|-----|----------|-------------|---------------------|
| 48N | 04W | 20  | 2        |     | NW  | SW  | KOOTENAI | GROUNDWATER |                     |
|     |     |     |          |     |     |     |          |             |                     |
|     |     |     |          |     |     |     |          |             |                     |
|     |     |     |          |     |     |     |          |             |                     |

5. Water will be used for the following purposes:
- Amount 0.10 CFS for DOMESTIC purposes from 1/1 to 12/31 (both dates inclusive)  
(cfs or acre-feet per year)
- Amount 0.10 CFS for DIVERSION TO STORAGE purposes from 4/1 to 10/31 (both dates inclusive)  
(cfs or acre-feet per year)
- Amount 0.4 AF for AESTHETIC STORAGE purposes from 4/1 to 10/31 (both dates inclusive)  
(cfs or acre-feet per year)
- Amount 0.10 CFS for AESTHETIC purposes from 4/1 to 10/31 (both dates inclusive)  
(cfs or acre-feet per year)
6. Total quantity to be appropriated is (a) 0.10 cubic feet per second (cfs) and/or (b) \_\_\_\_\_ acre-feet per year (af).
7. Proposed diverting works:
- a. Describe type and size of devices used to divert water from the source. APPLICANT HAS WELL TO PROVIDE WATER FOR DOMESTIC AND AESTHETIC PURPOSES
- b. Height of storage dam \_\_\_\_\_ feet; active reservoir capacity \_\_\_\_\_ acre-feet; total reservoir capacity \_\_\_\_\_ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 12. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate [Application for Construction or Enlargement of a New or Existing Dam](#). Application required? ☐ Yes ☐ No
- c. Proposed well diameter is \_\_\_\_\_ inches; proposed depth of well is \_\_\_\_\_ feet.
- d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☐ No
- e. If well is already drilled, when? 11/17/03; drilling firm UNITED;  
well was drilled for (well owner) ROCKFORD BAY INVESTMENTS; Drilling Permit No. 809019

**For Department Use**

Received by \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Preliminary check by \_\_\_\_\_  
Fee \$ 100.00 Received by LIS Receipt No. N108324106 Date 3-27-17

125.00 for well upgrade

8. Description of proposed uses (if irrigation only, go to item 9):
- Hydropower; show total feet of head and proposed capacity in kW. \_\_\_\_\_
  - Stockwatering; list number and kind of livestock. \_\_\_\_\_
  - Municipal; must complete and attach the [Municipal Water Right Application Checklist](#).
  - Domestic; show number of households DOMESTIC IS FOR HOUSEHOLD AND BOAT HOUSE
  - Other; describe fully. AESTHETIC IS FOR WATER FEATURE ON PROPERTY
9. Description of place of use:
- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
  - If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

| 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 | 04W | 20  |    |    |    |    |    |    |    |    |    | D/J |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    | GL2 |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |        |
| 48N | 04W | 20  |    |    |    |    |    |    |    |    |    | D   |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |        |

Total number of acres to be irrigated: \_\_\_\_\_

10. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? \_\_\_\_\_
11. a. Who owns the property at the point of diversion? APPLICANT
- b. Who owns the land to be irrigated or place of use? APPLICANT
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: \_\_\_\_\_
12. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. APPLICANT IS APPLYING FOR DOMESTIC USE FOR HOME AND HOUSEBOAT.  
APPLICANT IS APPLYING FOR A GREATER DIVERSION RATE BECUASE OF SIZE OF HOME AND LARGE  
NUMBER OF BATHROOMS IN HOUSES. APPLICATION IS ALSO FOR FILLING AN MAINTAINING AESTHETIC  
WATER FEATURE.
13. Time required for completion of works and application of water to proposed beneficial use is 1 years (minimum 1 year).
14. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map or maps clearly identifying the proposed point of diversion, place of use, section #, township & range. The map scale shall not be less than two (2) inches equal to one (1) mile.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Stephanie Blalack  
 Signature of Applicant

Stephanie Blalack, Representative  
 Print Name (and title, if applicable)

\_\_\_\_\_  
 Signature of Applicant

\_\_\_\_\_  
 Print Name (and title, if applicable)

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# APPLICATION MAP

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## Legend

- Taxlots
- Township/Range
- Sections
- QQ

0 0.015 0.03 0.06 Miles



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## Total Storage Calculations

|             |                |
|-------------|----------------|
| FILE NUMBER | PRATTE APP     |
| REVIEWER    | Adam Frederick |
| DATE        | 3/27/2017      |

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

|                      |
|----------------------|
| User Input           |
| Calculated value     |
| Formula Explanations |

|                                                                                              |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface Area (AC.)                                                                           | 0.07 | "Surface Area" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Average Pond Depth (FT.)                                                                     | 4    | "Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Pond Capacity (AF)                                                                           | 0.3  | Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above.<br><b>Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.</b>                                                                                                                                                                                                                                                                                                                                                                                         |
| Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF) | 0    | The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed).<br><b>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</b> |
| Estimated Seepage Loss (AF)                                                                  | 0.0  | The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Estimated Evaporation Loss (AF)                                                              | 0.1  | The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Total Volume Required (AF)                                                                   | 0.4  | The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                                                               |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow Rate into Pond (CFS)                                     | 0.10 | The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day) | 3.84 | This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Required Daily Maintenance Volume (AF/Day)                    | 0.00 | "Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.                                                                                            |
| Minimum Maintenance Flow (CFS)                                | 0.00 | The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Days Required to Fill the Pond                                | 1    | The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. <i>If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.</i>                                                                                                                                                             |
| Days Required to Fill the Pond at 13,000 Gallons per Day      | 7    | Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. <i>If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.</i><br>Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill. |

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## Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

|             |                |
|-------------|----------------|
| FILE NUMBER | PRATTE APP     |
| REVIEWER    | Adam Frederick |
| DATE        | 3/27/2017      |

|                      |
|----------------------|
| User Input           |
| Calculated value     |
| Formula Explanations |

|                                                                              |
|------------------------------------------------------------------------------|
| The acronyms used on the Kimberly Research Center website are defined below: |
| P = Precipitation                                                            |
| ET = Evapotranspiration                                                      |
| P <sub>d</sub> = Precipitation deficit                                       |
| P <sub>d</sub> = ET - P                                                      |

## USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at X:/Spatial/Climate/ETIdahostations.shp.

## Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

## Precipitation Deficit

Station: Coeur d'Alene 1 E (NWS -- 101956)

| Month     | mm/day <sup>1</sup> | Days per month | mm/Month |
|-----------|---------------------|----------------|----------|
| Jan       |                     | 31             | 0.00     |
| Feb       |                     | 28             | 0.00     |
| March     |                     | 31             | 0.00     |
| April     | 0.93                | 30             | 27.90    |
| May       | 1.66                | 31             | 51.46    |
| June      | 2.22                | 30             | 66.60    |
| July      | 3.84                | 31             | 119.04   |
| August    | 3.21                | 31             | 99.51    |
| September | 1.95                | 30             | 58.50    |
| October   | 0.30                | 31             | 9.30     |
| November  |                     | 30             | 0.00     |
| December  |                     | 31             | 0.00     |

**PLEASE NOTE:** The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

Total mm/year = 432.31

$$[(432.31 \text{ mm/yr}) \div (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$$

$$(432.31 \div 304.8) \times 0.07 = 0.1 \text{ AFA}$$

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Stephanie Blalack

**From:** Wendy Ayala <wendy@unitedcrown.com>  
**Sent:** Wednesday, March 22, 2017 11:35 AM  
**To:** Stephanie Blalack  
**Cc:** Richard Agueros  
**Subject:** Ron Pratte Well System  
**Attachments:** Well Drillers Report.pdf; Pump Curve.pdf; Pressure System.pdf

Stephanie,

Good Morning. It is my understanding you are taking over the Water Right issue for Ron Pratte. I am sending along this email to provide you with some information to help with the process. I have attached a copy of the Well Drillers report, pump curve and pressure system. Our records show the pump was installed on November 18, 2003. The pump model is a Jacuzzi 5HP 45 GPM however, due to the well treatment we installed in Ron's home, the flow is restricted to approximately 36GPM (see note on pump curve).

With that said...we are recommending you submit for a GPM in the 36 – 45 GPM range. As we all know, the more GPM you ask for the more the neighbors may object. The good news is that Ron does not use anywhere close to the 13,000 gallons per day he would be allowed. Because the home is so large Ron needs a higher flow for instantaneous demand but not long enough to go over the 13k daily total. If you note this fact on the application and that all of the Irrigation is provided by the Lake Pump Irrigation System, you may be better able to defend any protests to this Water Right.

Please let us know if we can be of any further assistance.

Have a great day,  
Wendy



Wendy Ayala

3125 W. Hayden Ave.

Hayden, Id. 83835

Phone: 772-7867 Fax: 772-7229

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Form 238-7  
11/97 MAR 27 2017

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

IDWR/NORTHERN

ATTACHMENT

1. WELL TAG NO. D0033350

DRILLING PERMIT NO 809019

Other IDWR No.

2. OWNER:

Name Rockford Bay Investments

Address PO Box 3070

City Coeur d'Alene State ID Zip 83816

3. LOCATION OF WELL by legal description:

N Twp 48N North ☒ or South ☐  
Rge 04W East ☐ or West ☒  
Sec 18 1/4 NE 1/4 SW 1/4  
Gov't Lot 10 Ac 40 Ac 160 Ac  
Lat \_\_\_\_\_ Long \_\_\_\_\_  
Address of Well Site: (see next line)

West Bennion Road to West Alexander to the end City

Lot \_\_\_\_\_ Blk \_\_\_\_\_ Sub. Name (see next line)

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/Lbs |         |
| Bentonite Grans  | 0    | 45 | 8 sacks   | Pour in |
|                  |      |    |           |         |
|                  |      |    |           |         |

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) 134

Drive Shoe Seal Tested? ☐ Y ☒ N How?

8. CASING/LINER

| Diam | From | To  | Gauge | Material | Casng                               | Liner                               | Weld                                | Thrded                   |
|------|------|-----|-------|----------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 6    | 1    | 135 | 0.025 | Steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4    | 112  | 212 | 0.025 | PVC      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|      |      |     |       |          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |

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

9. PERFORATIONS/SCREENS

- ☐ Perforations? Method \_\_\_\_\_  
☒ Screens? Screen Type PVC

| From | To  | Slot | Nmbr | Diam | Material | Casng                    | Liner                               |
|------|-----|------|------|------|----------|--------------------------|-------------------------------------|
| 182  | 212 | .20  | 2    | 4    | PVC      | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|      |     |      |      |      |          | <input type="checkbox"/> | <input type="checkbox"/>            |
|      |     |      |      |      |          | <input type="checkbox"/> | <input type="checkbox"/>            |

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

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

Depth flow encountered 205 ft. Describe access port or

control devices: Steel Cap Welded

11. WELL TESTS:

- ☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

| Yield gal./min. | Drawdown | Pump Level | Time   |
|-----------------|----------|------------|--------|
| 50+             | 100%     | 200        | 2 hrs. |
|                 |          |            |        |
|                 |          |            |        |

Water Temp. \_\_\_\_\_ Cold Bottom hole temp. \_\_\_\_\_ Cold

Water Quality test or comments: (below) Depth first Water Encountered 90

Slight color and no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

| Bore Diam | From | To  | Remarks: Lithology, Water Quality and Temperature | Water                               |                                     |
|-----------|------|-----|---------------------------------------------------|-------------------------------------|-------------------------------------|
|           |      |     |                                                   | Y                                   | N                                   |
| 8         | 0    | 14  | Basalt: Cobbles Broken                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8         | 14   | 25  | Clay: Basalt Mix                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8         | 25   | 60  | Clay: Brown                                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8         | 60   | 85  | Clay and Sand Brown                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8         | 85   | 90  | Clay: Brown                                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8         | 90   | 122 | Sand: Heaving and some clay                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8         | 122  | 134 | Clay: Tan and Orange                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6         | 134  | 165 | Basalt with Clay Mix                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 6         | 165  | 205 | Basalt: Black and Hard                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6         | 205  | 210 | Basalt: Broken Brown and Black                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 6         | 210  | 212 | Clay: Brown                                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

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NOV 21 2013

IDWR North

Completed Depth 212 (Measurable)

Date: Started 11/13/03 Completed 11/17/03

13. DRILLERS CERTIFICATION

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

Firm Name United Drilling Inc. Firm No 414

Firm Official \_\_\_\_\_ Date 11/17/03

Supervisor or Operator Jason C. Beckham Date 11/17/03

48N 4W 18

Ron Pratte Domestic Well

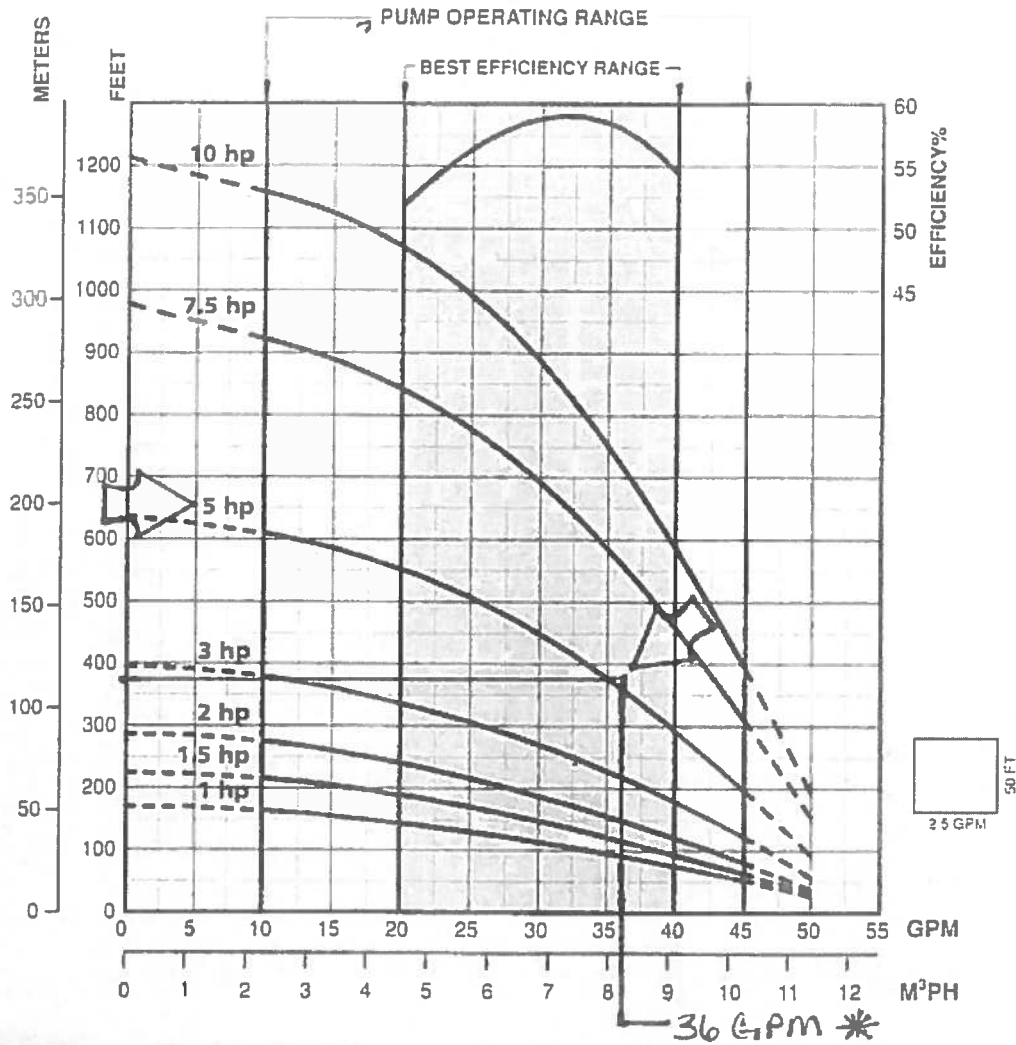
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Submersible Pumps

DWV/NORTHERN

## 4" High Capacity Pumps - 45 GPM



### Capacities in U.S. Gallons per Minute

| HP  | PSI | Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|--------------------------------------------------------------------------------------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     | 20                                                                                               | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 |
| 10  | 5   |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 55  | 53  | 50  | 48  | 45  | 42  | 39  | 35  | 31  | 27  | 22  | 16  |
|     | 10  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 54  | 52  | 49  | 47  | 44  | 41  | 37  | 33  | 29  | 24  | 19  |     |
|     | 15  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 53  | 51  | 48  | 45  | 42  | 39  | 36  | 32  | 27  | 22  | 16  |     |
|     | 20  |                                                                                                  |    |    |    |     |     |     |     |     |     | 54  | 52  | 49  | 47  | 44  | 41  | 37  | 34  | 30  | 25  | 19  |     |     |
|     | 25  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 53  | 51  | 48  | 45  | 43  | 39  | 36  | 32  | 27  | 22  | 17  |     |
|     | 30  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 52  | 50  | 47  | 44  | 41  | 38  | 34  | 30  | 25  | 20  |     |     |
|     | 35  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 51  | 48  | 46  | 43  | 40  | 36  | 32  | 28  | 23  | 17  |     |     |
|     | 40  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 50  | 47  | 44  | 41  | 38  | 34  | 30  | 28  | 20  | 14  |     |     |
|     | 45  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 49  | 46  | 43  | 40  | 38  | 32  | 28  | 23  | 18  |     |     |     |
|     | 50  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 48  | 45  | 42  | 39  | 35  | 31  | 26  | 21  | 15  |     |     |     |
|     | 55  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 47  | 44  | 40  | 37  | 33  | 28  | 24  | 18  |     |     |     |     |
|     | 60  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 46  | 43  | 40  | 37  | 33  | 28  | 24  | 18  |     |     |     |     |
|     | 65  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 45  | 42  | 39  | 35  | 31  | 26  | 21  | 15  |     |     |     |     |
|     | 70  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 44  | 40  | 37  | 33  | 29  | 24  | 19  |     |     |     |     |     |
|     | 75  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 43  | 40  | 37  | 33  | 29  | 24  | 19  |     |     |     |     |     |
|     | 80  |                                                                                                  |    |    |    |     |     |     |     |     |     |     | 42  | 39  | 36  | 32  | 27  | 22  | 16  |     |     |     |     |     |
| 85  |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 41  | 38  | 34  | 30  | 25  | 20  | 15  |     |     |     |     |     |     |
| 90  |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 40  | 37  | 33  | 29  | 24  | 19  |     |     |     |     |     |     |     |
| 95  |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 39  | 36  | 32  | 27  | 22  | 16  |     |     |     |     |     |     |     |
| 100 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 38  | 34  | 30  | 25  | 20  | 15  |     |     |     |     |     |     |     |
| 105 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 37  | 33  | 29  | 24  | 19  |     |     |     |     |     |     |     |     |
| 110 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 36  | 32  | 27  | 22  | 16  |     |     |     |     |     |     |     |     |
| 115 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 35  | 31  | 26  | 21  | 15  |     |     |     |     |     |     |     |     |
| 120 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 34  | 30  | 25  | 20  | 15  |     |     |     |     |     |     |     |     |
| 125 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 33  | 29  | 24  | 19  |     |     |     |     |     |     |     |     |     |
| 130 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 32  | 27  | 22  | 16  |     |     |     |     |     |     |     |     |     |
| 135 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 31  | 26  | 21  | 15  |     |     |     |     |     |     |     |     |     |
| 140 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 30  | 25  | 20  | 15  |     |     |     |     |     |     |     |     |     |
| 145 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 29  | 24  | 19  |     |     |     |     |     |     |     |     |     |     |
| 150 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 28  | 23  | 18  |     |     |     |     |     |     |     |     |     |     |
| 155 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 27  | 22  | 16  |     |     |     |     |     |     |     |     |     |     |
| 160 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 26  | 21  | 15  |     |     |     |     |     |     |     |     |     |     |
| 165 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 25  | 20  | 15  |     |     |     |     |     |     |     |     |     |     |
| 170 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 24  | 19  |     |     |     |     |     |     |     |     |     |     |     |
| 175 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 23  | 18  |     |     |     |     |     |     |     |     |     |     |     |
| 180 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 22  | 16  |     |     |     |     |     |     |     |     |     |     |     |
| 185 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 21  | 15  |     |     |     |     |     |     |     |     |     |     |     |
| 190 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 20  | 15  |     |     |     |     |     |     |     |     |     |     |     |
| 195 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 19  |     |     |     |     |     |     |     |     |     |     |     |     |
| 200 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 18  |     |     |     |     |     |     |     |     |     |     |     |     |
| 205 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 17  |     |     |     |     |     |     |     |     |     |     |     |     |
| 210 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 16  |     |     |     |     |     |     |     |     |     |     |     |     |
| 215 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| 220 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 14  |     |     |     |     |     |     |     |     |     |     |     |     |
| 225 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 13  |     |     |     |     |     |     |     |     |     |     |     |     |
| 230 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 12  |     |     |     |     |     |     |     |     |     |     |     |     |
| 235 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 11  |     |     |     |     |     |     |     |     |     |     |     |     |
| 240 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 10  |     |     |     |     |     |     |     |     |     |     |     |     |
| 245 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 9   |     |     |     |     |     |     |     |     |     |     |     |     |
| 250 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 8   |     |     |     |     |     |     |     |     |     |     |     |     |
| 255 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 7   |     |     |     |     |     |     |     |     |     |     |     |     |
| 260 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 6   |     |     |     |     |     |     |     |     |     |     |     |     |
| 265 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 5   |     |     |     |     |     |     |     |     |     |     |     |     |
| 270 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 4   |     |     |     |     |     |     |     |     |     |     |     |     |
| 275 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 3   |     |     |     |     |     |     |     |     |     |     |     |     |
| 280 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |     |     |     |     |
| 285 |     |                                                                                                  |    |    |    |     |     |     |     |     |     | 1   |     |     |     |     |     |     |     |     |     |     |     |     |
| 290 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 295 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 305 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 310 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 315 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 320 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 325 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 330 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 335 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 340 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 345 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 350 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 355 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 360 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 365 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 370 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 375 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 380 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 385 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 390 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 395 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 405 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 410 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 415 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 420 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 425 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 430 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 435 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 440 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 445 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 450 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 455 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 460 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 465 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 470 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 475 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 480 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 485 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 490 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 495 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 505 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 510 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 515 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 520 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 525 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 530 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 535 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 540 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 545 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 550 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 555 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 560 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 565 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 570 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 575 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 580 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 585 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 590 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 595 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 605 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 610 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 615 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 620 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 625 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 630 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 635 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 640 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 645 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 650 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 655 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 660 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 665 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 670 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 675 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 680 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 685 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 690 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 695 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 705 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 710 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 715 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 720 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 725 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 730 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 735 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 740 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 745 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 750 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 755 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 760 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 765 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 770 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 775 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 780 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 785 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 790 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 795 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 805 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 810 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 815 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 820 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 825 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 830 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 835 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 840 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 845 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 850 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 855 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 860 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 865 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 870 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 875 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 880 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 885 |     |                                                                                                  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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MAR 27 2017

IDWR/NORTHERN

2 week lead time - 2071165  
 Frt. PP + Add to you direct.

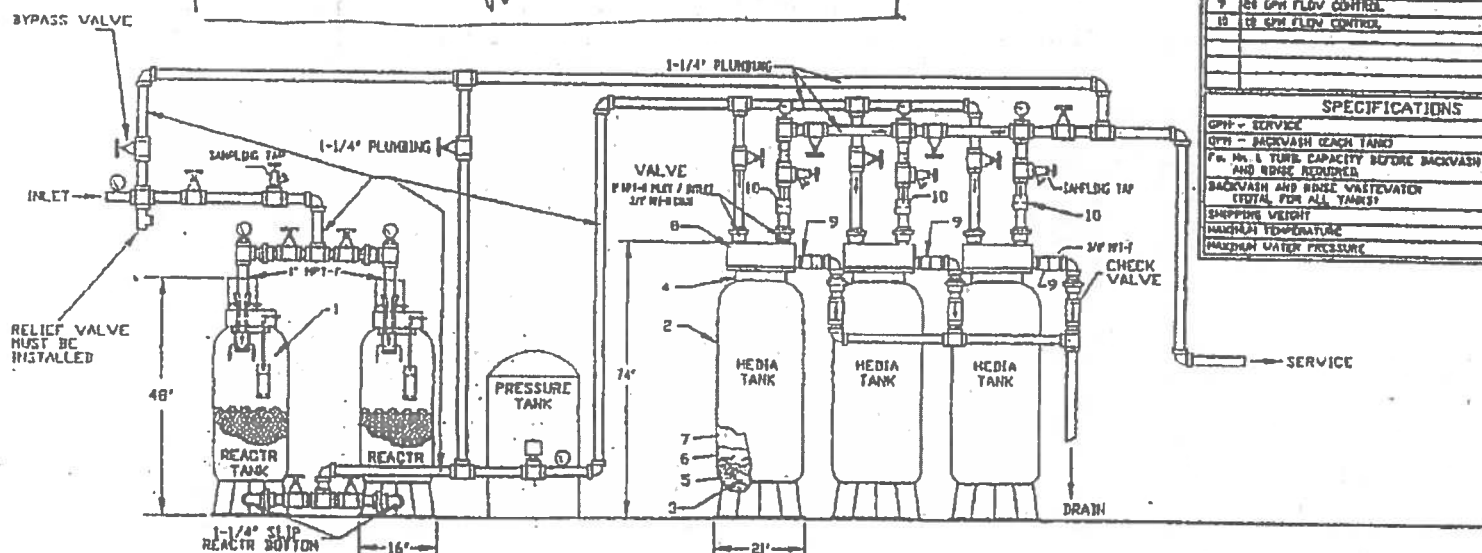
- NOTE:
- 1) PIPING AND STANDARD PLUMBING ITEMS ARE NOT INCLUDED.
  - 2) PIPE UNIONS ARE RECOMMENDED AT ALL CONNECTIONS TO THIS EQUIPMENT.
  - 3) THE CONTROL VALVE CLOCKS MUST BE SET AT LEAST ONE HOUR APART.
  - 4) WATER PRESSURE AT FILTERS MUST BE AT LEAST 20 PSI DURING BACKWASH.
  - 5) THIS SYSTEM BACKWASHES WITH RAW WATER.
  - 6) EACH TANK BACKWASHES INDIVIDUALLY, WHILE ONE TANK IS BACKWASHING THE OTHER TANKS CONTINUE TO SUPPLY TREATED WATER TO SERVICE. RAW WATER IS NOT BYPASSED TO SERVICE.

| IF THE<br>MAX. SERVICE<br>PRESSURE IS | THEN AT 36 GPM<br>THE INLET PSI AT<br>THE REACTR MUST BE |
|---------------------------------------|----------------------------------------------------------|
| 20 PSI                                | 45 PSI MIN.                                              |
| 30 PSI                                | 55 PSI MIN.                                              |
| 40 PSI                                | 65 PSI MIN.                                              |
| 50 PSI                                | 75 PSI MIN.                                              |
| 60 PSI                                | 90 PSI MIN.                                              |
| 70 PSI                                | 105 PSI MIN.                                             |

| ITEMS INCLUDED |                                                                                                      |           |
|----------------|------------------------------------------------------------------------------------------------------|-----------|
| ITEM NO.       | DESCRIPTION                                                                                          | QUANTITY  |
| 1              | REACTR TANK                                                                                          | 2         |
| 2              | 24" X 60" FILTER TANK<br>- RATED AT 150 PSI<br>- POLYGLASS CONSTRUCTION<br>- INCLUDES CIRCULAR BASE  | 3         |
| 3              | DISTRIBUTOR & TUBE ASSEMBLY<br>- ABS AND PVC CONSTRUCTION                                            | 3         |
| 4              | TANK TOP ADAPTER                                                                                     | 3         |
| 5              | 3" GRAVEL                                                                                            | 210 LBS.  |
| 6              | 1/2" GRAVEL                                                                                          | 150 LBS.  |
| 7              | STEEL BLOOD MEDIA                                                                                    | 2100 LBS. |
| 8              | 2100 CONTROL VALVE<br>- MOTORIZED NON-BYPASS PISTON BRASS BODY<br>- 1/2" INCH 1/2" DAY CLOCK CONTROL | 3         |
| 9              | 21 GPM FLOW CONTROL                                                                                  | 3         |
| 10             | 15 GPM FLOW CONTROL                                                                                  | 3         |

| SPECIFICATIONS                                              |           |
|-------------------------------------------------------------|-----------|
| GPM - SERVICE                                               | 36 GPM    |
| GPM - BACKWASH EACH TANK                                    | 80 GPM    |
| PER MIN. & TUBE CAPACITY BEFORE BACKWASH AND BRINE REQUIRED | 30000 GPM |
| BACKWASH AND BRINE WASTEWATER (TOTAL FOR ALL TANKS)         | 1600 GAL. |
| SHIPPING WEIGHT                                             | 2071 LBS. |
| MAXIMUM TEMPERATURE                                         | 110°F     |
| MAXIMUM WATER PRESSURE                                      | 125 PSI   |

Reactr. - 36 gpm, Pressure System



THIS DRAWING IS THE PROPERTY OF CHAMBERLAIN SYSTEMS, INC. AND IT OR THE TECHNOLOGY CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF CHAMBERLAIN SYSTEMS, INC.

36 GPM  
 REACTR SYSTEM

CSI water treatment

COMMERCIAL "REACTR" SYSTEM

REV. 3/10/98 REACTR TANK TO 48" HIGH

| DRWN | DATE    | DRVD. NO. |
|------|---------|-----------|
| EDK  | 8/28/97 | CRF70103  |
|      |         | MODEL NO. |
|      |         | CRF70-103 |

CSI

**Ball, Dianne**

---

**From:** Ball, Dianne  
**Sent:** Wednesday, April 12, 2017 11:03 AM  
**To:** Legal Notices-CdA Press; Legal Notices-CdA Press -Holly Fredericks (hfredericks@cdapress.com)  
**Cc:** Frederick, Adam; Case, Morgan  
**Subject:** Application for Permit No. 95-17292, 95-17293, 95-17294  
**Attachments:** LegalNotice 04-12-17 CDA e-mail 95-17292, 05-17293, 95-17294.doc

Good morning, Holly,

Please publish the enclosed legal notice in the Coeur d'Alene Press, on the dates indicated, April 20 and 27, 2017, (once a week for two consecutive weekly issues). If you can't publish the notice on the proposed dates, please contact us immediately.

This should be very close to press ready – for 2-column, 8pt, Arial font, maybe even close enough for copy and paste, with only minor adjustment.

Please note the area(s) under **USE** containing dates and water amounts that are offset and lined up. Our legal should appear in this layout.

Please also send a proof/preview copy for my review before this actually goes to press.

If you have any questions, please contact me as early as possible.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 5/8/2017. Your cooperation is appreciated.

Thanks for all your help, Holly. It's truly a pleasure to work with you. ☺

*Dianne Ball*

Administrative Assistant  
Idaho Department of Water Resources  
7600 N Mineral Dr., Ste. 100  
Coeur d'Alene, ID 83815  
208-762-2800 Fax 208-762-2819

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

**95-17292**

RON PRATTE  
4400 W EARHART WAY  
CHANDLER, AZ 85226  
Point of Diversion L2(NWSW) S20 T48N R04W KOOTENAI CO  
Source GROUND WATER  
Use: AESTHETIC 04/01 to 10/31 0.1 CFS  
Use: AESTHETIC Storage 04/01 to 10/31 0.4 AF  
Use: DIVERSION to Storage 04/01 to 10/31 0.1 CFS  
Use: DOMESTIC 01/01 to 12/31 0.1 CFS  
Total Diversion: 0.1 CFS

Date Filed: 3/27/2017  
Place of Use: DOMESTIC T48N R04W S20 L2(NWSW)  
Place of Use: AESTHETIC and AESTHETIC STORAGE same as DOMESTIC  
Domestic use is for household and boat house.  
Aesthetic is for water feature on property.

**95-17293**

PER LARSEN  
ELLEN LARSEN  
6734 W STURGEON RD  
RATHDRUM, ID 83858  
Point of Diversion NWNWNE S19 T52N R04W KOOTENAI CO  
Source SPRING tributary SINKS  
Use: IRRIGATION 03/15 to 11/15 0.04 CFS  
Total Diversion: 0.04 CFS

Date Filed: 3/30/2017  
Place of Use: IRRIGATION T52N R04W S19 NWNE  
Total Acres: 1.2

**95-17294**

R & B PREMIER ENTERPRISE LLC  
1869 E SELTICE WAY #376  
POST FALLS, ID 83854  
Point of Diversion L4(NWNW) S6 T50N R05W KOOTENAI CO  
Source GROUND WATER  
Use: FIRE PROTECTION 01/01 to 12/31 4 CFS  
Total Diversion: 4 CFS

Date Filed: 3/9/2017  
Place of Use: FIRE PROTECTION T50N R05W S6 L4(NWNW) L5(SWNW)  
Permits will be subject to all prior water rights. For additional information concerning the property location, contact Northern Region office at (208) 762-2800; or for a full description of the right(s), please see:

<http://www.idwr.idaho.gov/apps/ExtSearch/WRApplicationResults/>.

Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Northern Region, 7600 Mineral Drive, Suite 100, Coeur D' Alene ID 83815 together with a protest fee of \$25.00 for each application on or before 5/8/2017. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 4/20/2017 and 4/27/2017



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 Mineral Drive, Suite 100, Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 FAX: (208) 762-2819 www.idwr.idaho.gov

C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

April 12, 2017

RON PRATTE  
4400 W EARHART WAY  
CHANDLER, AZ 85226

-  
Application for Permit No. 95-17292

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the COEUR D ALENE PRESS on 4/20/2017 and 4/27/2017. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

A handwritten signature in black ink that reads "Adam Frederick".

Adam Frederick  
Senior Water Resource Agent

CC: VERDIS C/O STEPHANIE BLALACK  
PO BOX 580  
COEUR D ALENE, ID 83816

## Frederick, Adam

---

**From:** Stephanie Blalack <sblalack@verdisnw.com>  
**Sent:** Thursday, March 30, 2017 10:43 AM  
**To:** Frederick, Adam  
**Subject:** RE: Change in Address

Hi Adam,  
I would like to change it to Verdis, c/o Stephanie Blalack

Let me know if you have questions.  
Thanks,

**Stephanie Blalack**  
Senior Planner



☎ (208) 667-1214 x102  
☐ (208) 659-6559

---

**From:** Frederick, Adam [mailto:Adam.Frederick@idwr.idaho.gov]  
**Sent:** Thursday, March 30, 2017 8:13 AM  
**To:** Stephanie Blalack <sblalack@verdisnw.com>  
**Subject:** Change in Address

Stephanie,  
Could you just email me the change you would like for mailing purposes for Ron Pratte's application for permit.

Adam Frederick  
Senior Water Resource Agent  
Idaho Department of Water Resources  
Northern Regional Office  
Phone 208-762-2800

## Frederick, Adam

---

**From:** Stephanie Blalack <sblalack@verdisnw.com>  
**Sent:** Monday, March 27, 2017 12:46 PM  
**To:** Frederick, Adam  
**Subject:** Ron Pratte  
**Attachments:** Untitled\_03272017\_123106.pdf

Hi Adam,  
Attached is the authorization you requested!  
Thanks again for your help today,

**Stephanie Blalack**  
Senior Planner

  
**verdis**  
planning | design | engineering | construction

☎ (208) 667-1214 x102

📠 (208) 659-6559

**verdis**

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MAR 27 2017

IDWR/NORTHERN

602 east garden avenue  
p. o. box 580  
coeur d' alene, idaho 83816  
tel. 208.667.1214  
fax. 208.765.2516

[www.verdisnw.com](http://www.verdisnw.com)

To: To Whom It May Concern

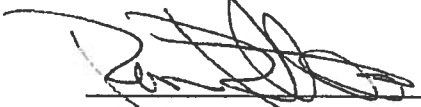
From: Ron Pratte

Date: October 30, 2014

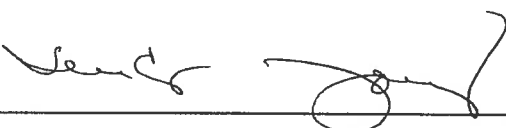
Re: Authorization

I hereby authorize Verdis to act on my behalf as my representative to local, state and federal agencies and when applying for or researching my permits.

If you have questions regarding this matter you may contact me at 702 378-5500

  
\_\_\_\_\_  
Ron Pratte

On this 30th day of October 2014, before me, Sandra M. Young personally appeared Ron Pratte, known or identified to me to be the person who executed this instrument and acknowledged to me the same.

  
\_\_\_\_\_  
Notary Public in and for the State of Idaho  
Residing in Coeur d'Alene, ID  
My Commission Expires:

8/2/16

