

2N/33E/11ad

(1) OWNER: CTUIR Well Number 3
 Name _____
 Address P.O. Box 638
 City Pendleton State OR Zip 97801

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable
 Other Reverse Circulation Rotary

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 1100 ft.
 Explosives used Yes No Type _____ Amount _____

| Diameter | HOLE | | Material | SEAL | | Amount sacks or pounds |
|----------|------|------|--|------|-----|---------------------------|
| | From | To | | From | To | |
| 20 | 0 | 251 | cement | 8 | 424 | 475 sks |
| 15 | 251 | 425 | Pitless extension installed with | | | |
| 12 | 425 | 1100 | 10" side outlet valve below grd & 12" in line valve below side | | | |

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

| Diameter | From | To | Gauge | Material | | | |
|------------|-----------------------------|------|-------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| | | | | Steel | Plastic | Welded | Threaded |
| Casing: 12 | +6 | 424 | .375 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | including pitless extension | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Liner: 10 | 409 | 1100 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | except at screens. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Final location of shoe(s) 424

(7) PERFORATIONS/SCREENS:
 Perforations Method see attached
 Screens Type V shape Material 304SS
 wire wrap

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing | Liner | |
|--|----|-----------|--------|----------|----------------|--------------------------|--------------------------|-------------------------------------|
| see attached liner/screen assembly list. | | | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

| Yield gal/min | Drawdown | Drill stem at | Time |
|---------------|---------------------|---------------|---------|
| 500 | 38 psi backpressure | | 3 hr. |
| 840 | 30 psi backpressure | | 2.5 hr. |
| 1300 | 12 psi backpressure | | 72 hr. |

Temperature of Water ~73°F Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____ 8E1 9323

(9) LOCATION OF WELL by legal description:
 County Umatilla Latitude _____ Longitude _____
 Township 2N N or S. Range 33E E or W. WM. _____
 Section 11 SE 1/4 of NE 1/4 _____
 Tax Lot 1200 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) _____

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 Artesian pressure 46 lb. per square inch. Date 10/6/93

(11) WATER BEARING ZONES:
 Depth at which water was first found in basalt: 27'

| From | To | Estimated Flow Rate | SWL |
|------|------|---------------------|-----|
| 27 | 46 | < 100 | 11 |
| 65 | 75 | < 100 | 9 |
| 811 | 830 | 225* | * |
| 892 | 1085 | 1000* | * |

(12) WELL LOG: Ground elevation ~ 1277

| Material | From | To | SWL |
|---|-------|-----------|-----|
| see attached log | | | |
| *Well was flowing artesian below 811'. Shut in pressures were ~44psi (5/93). Intermediate flow rates were increasing with depth as follows: | | | |
| | 830' | > 225 gpm | |
| | 915' | > 275 gpm | |
| | 989' | > 285 gpm | |
| | 1042' | > 365 gpm | |
| | 1077' | > 900 gpm | |
| | 1100' | see (8) | |

Date started 12/2/92 Completed 10/26/93

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
 Signed _____ WWC Number 1367
 Date 10/29/93

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed _____ WWC Number 649
 Date 10/29/93

CTUIR
Well No. 3
Start Card No. 46226
10" Liner/Screen Assembly

| <u>FROM</u> | <u>TO</u> | <u>LENGTH</u> | <u>DESCRIPTIONS</u> |
|-------------|-----------|---------------|--|
| 409 | 413 | 4.0 | Blank w/J Slots (reinforced & covered) |
| 413 | 422.5 | 9.5 | * |
| 422.5 | 804.4 | 20.1x19 Pcs | * |
| 804.4 | 814.4 | 10.0 | Factory Perforations (3/16x3 perf., 40/ft, Typ.) |
| 814.4 | 834.65 | 20.25 | Screen (.150 Slot, Typ.) |
| 834.65 | 844.65 | 10.0 | Fact. Perf. |
| 844.65 | 864.75 | 20.1 | * |
| 864.75 | 884.85 | 20.1 | * |
| 884.85 | 904.95 | 20.1 | * |
| 904.95 | 924.95 | 20.1 | * |
| 924.95 | 940.05 | 15.1 | * |
| 940.05 | 945.05 | 5.0 | Fact. Perf. |
| 945.05 | 965.15 | 20.1 | Blank |
| 965.15 | 985.25 | 20.1 | Blank |
| 985.25 | 1019.5 | 34.25 | Blank |
| 1019.5 | 1029.5 | 10.0 | Fact. Perf. |
| 1029.5 | 1049.75 | 20.25 | Screen |
| 1049.75 | 1064.75 | 15.0 | Fact. Perf. |
| 1064.75 | 1085 | 20.25 | Screen |
| 1085 | 1100 | 15.0 | Fact. Perf. |

*Each of these pieces have 18-1/2x6 torch perforations located 3' to 6' from top end.

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WATER RESOURCES DEPT.
SALEM, OREGON

CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION

Start Card No. 46226

by Schneider Drilling Co.

June 2, 1993

| <u>Depth</u> | | <u>Description</u> |
|--------------|-----------|---|
| <u>From</u> | <u>To</u> | |
| 0 | 2 | Top soil, brown |
| 2 | 5 | Peat & sand |
| 5 | 16 | Gravel, 6"- & sand, brown |
| 16 | 19 | Gravel, 4"- & clay, brown |
| 19 | 22 | Gravel, 2"- & clay, brown, conglomerate |
| 22 | 27 | Basalt, blk, broken, & clay, blk |
| 27 | 46 | Basalt, blk, fractured, med-hard |
| 46 | 58 | Basalt, gray, hard |
| 58 | 60 | Basalt, dark gray, med-hard |
| 60 | 62 | Basalt, blk, brkn, ves, some cly, gry & blue |
| 62 | 65 | Basalt, blk, well frac, & claystone, blue |
| 65 | 67 | Basalt, blk, vesicular |
| 67 | 75 | Basalt, blk, frac, some vesicular, med |
| 75 | 78 | Basalt, blk, vesicular, soft, & some clay, blue |
| 78 | 81 | Basalt, blk, frac, ves, med-sft, & some cly, blue |
| 81 | 83 | Basalt, blk, some frac, med-hard |
| 83 | 89 | Basalt, blk, frac, med, & some clay, gray |
| 89 | 92 | Basalt, blk & gray, frac, med |
| 92 | 95 | Basalt, gray, hard |
| 95 | 105 | Basalt, gray, hard, some frac |
| 105 | 108 | Basalt, gray, hard |
| 108 | 109 | Basalt, gray, well frac |
| 109 | 128 | Basalt, gray, hard |
| 128 | 133 | Basalt, blk, brkn, ves, some cs, blue |
| 133 | 136 | Basalt, blk, frac, some ves |
| 136 | 140 | Basalt, blk, frac, some ves, med-soft |
| 140 | 143 | Basalt, blk, ves, very soft, & some clay & cs, blue |
| 143 | 146 | Basalt, blk, ves & frac, med-soft |
| 146 | 149 | Basalt, blk, some frac & some ves, med |
| 149 | 152 | Basalt, blk, some frac, med-hard |
| 152 | 161 | Basalt, blk, frac, med |
| 161 | 165 | Basalt, drk gray, frac, med-hard |
| 165 | 171 | Basalt, blk-red & brn, ves, med-sft, some cs, blue |
| 171 | 174 | Basalt, blk, frac, some ves, & clay, gray |
| 174 | 184 | Basalt, blk, frac, med |
| 184 | 188 | Basalt, dark gray, some frac, med-hard |
| 188 | 200 | Basalt, gray, hard |
| 200 | 201 | Basalt, gray, well frac, med |
| 201 | 205 | Basalt, gray, hard |
| 205 | 230 | Basalt, gray, some frac, brown, hard |
| 230 | 265 | Basalt, gray & brown, some frac, hard |
| 265 | 275 | Basalt, gray, hard |
| 275 | 280 | Basalt, gray & brown, frac, med-hard |
| 280 | 295 | Basalt, dk gray & brown, ves, frac, med, cs, blue |

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CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION

Start Card No. 46226, cont.

| <u>From</u> | <u>To</u> | <u>Description</u> |
|-------------|-----------|---|
| 295 | 312 | Basalt, black, ves, frac, med-soft, cs, blue |
| 312 | 366 | Basalt, blk & brn, frac, med-hard, some cs |
| 366 | 369 | Basalt, blk & brn, frac, med-hard |
| 369 | 383 | Basalt, dark gray, med-hard |
| 383 | 385 | Basalt, gray & brn, some frac, med-hard |
| 385 | 388 | Basalt, drk gray, frac, med, & cs, green-blue |
| 388 | 393 | Basalt, blk, cindery & red, ves, soft, & cs, blue |
| 393 | 403 | Basalt, blk, ves, med-soft, some clay, brn |
| 403 | 407 | Basalt, dk brn, ves, med, & cs, blue |
| 407 | 410 | Basalt, dk gry-blk, ves, med, & cs, blue |
| 410 | 416 | Basalt, blk, frac, med, & some cs, blue |
| 416 | 423 | Basalt, dk gray & brn, some frac, med-hard |
| 423 | 425 | Basalt, dk gray & brn, frac, med-hard |
| 425 | 430 | Basalt, dk gray & brn, frac, hard |
| 430 | 437 | Basalt, brn, ves, frac, med-soft, & cs, blue |
| 437 | 442 | Basalt, gray & brn, ves, frac, med, cs |
| 442 | 458 | Basalt, gray, ves, med, & some cs |
| 458 | 477 | Basalt, dk gray, frac, med-hard |
| 477 | 485 | Basalt, dk gray, ves, frac, med-hard, cs |
| 485 | 488 | Basalt, dk gray, frac, med, & clay & cs |
| 488 | 490 | Basalt, dk gray, some ves, frac, med, & cs |
| 490 | 492 | Basalt, dk gray, frac, med-hard |
| 492 | 497 | Basalt, dk gray, frac, med, & cs |
| 497 | 498 | Basalt, dk gray, med, & cs, blue-green |
| 498 | 500 | Basalt, dk gray, frac, med |
| 500 | 502 | Basalt, gray, frac, med, & some cs, blue-green |
| 502 | 504 | Basalt, gray, some frac, med |
| 504 | 507 | Basalt, gray, some frac, med, & clay, brown |
| 507 | 512 | Basalt, gry, md-sft, & cs, blue-grn, & cly, gry-brn |
| 512 | 518 | Basalt, gray, med-soft, & clay, gray-brn |
| 518 | 542 | Basalt, gray, frac, med |
| 542 | 545 | Basalt, gray, med-hard, frac, & cs, blue-grn |
| 545 | 553 | Basalt, gry-brn, frc, vs, md-sft, & some cly, brn & cs, grn |
| 553 | 557 | Basalt, gray, ves, frac, med-soft, with clay & cs |
| 557 | 570 | Basalt, gray, frac, med-hard |
| 570 | 577 | Basalt, gray, frac, med-hard, & cs, blue-grn |
| 577 | 578 | Basalt, gry, frac, med-hard, & cly, blue-grn, & some cs |
| 578 | 582 | Basalt, gray, ves, med, & cs, blue-grn |
| 582 | 596 | Basalt, gray, med-hard, some frac |
| 596 | 600 | Basalt, gry, & rock, red, brkn, med-soft, & cly, red |
| 600 | 602 | Rock, red, brkn, med-soft, & cs, grn, & cly, red |
| 602 | 604 | Basalt, gry, & some rock, red, brkn, md-sft, & cs, grn |
| 604 | 606 | Basalt, gry, brkn, md-sft, & cs, bl-grn, cly, gry-brn |
| 606 | 609 | Basalt, gray, frac, med, & cs, blue-grn |
| 609 | 616 | Basalt, gray, brkn, soft, & clay, gray |
| 616 | 617 | Basalt, gry, brkn, med-soft, & cs, blue-grn, & clay, gry |
| 617 | 620 | Basalt, gray, brkn, med, & cs, blue-grn |
| 620 | 627 | Basalt, gray, brkn, med, & some clay, brown |

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CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
Start Card No. 46226, cont.

| <u>From</u> | <u>To</u> | <u>Description</u> |
|-------------|-----------|--|
| 627 | 637 | Basalt, gray, frac, med-hard, & some cs, blue-grn |
| 637 | 673 | Basalt, gray, frac, hard |
| 673 | 674 | Basalt, gray, frac, med, & cly lyr, blue-grn & red |
| 674 | 677 | Basalt, gray, frac, med, & cs, blue-grn |
| 677 | 679 | Basalt, gray & brn, frac, med, & cs, blue-grn |
| 679 | 680 | Basalt, brn, frac, med-soft, & cs, blue-gry & blue-grn |
| 680 | 682 | Basalt, brown, brkn, med-soft, & cs, blue-grn |
| 682 | 684 | Basalt, gray & brown, frac, med, & cs, blue-grn |
| 684 | 692 | Basalt, gray & brown, frac, med |
| 692 | 699 | Basalt, gray, frac, med |
| 699 | 709 | Basalt, gray, brkn, med, & cs, blue-green |
| 709 | 711 | Basalt, gray, frac, hard |
| 711 | 714 | Basalt, gray, frac, med-hard, & cs, blue-grn |
| 714 | 717 | Basalt, gray, frac, med-hard, & clay, blue-grn |
| 717 | 719 | Basalt, gray, frac, med-hard, & cs, blue-grn |
| 719 | 722 | Basalt, gray, brkn, med-hard, & cs, blue-grn |
| 722 | 729 | Basalt, gray, frac, hard |
| 729 | 734 | Basalt, gray, frac, med-hard, & cs, green |
| 734 | 741 | Basalt, gray, brkn, med |
| 741 | 743 | Basalt, gray, frac, med, & cs, green |
| 743 | 747 | Basalt, gray, frac, med-hard |
| 747 | 749 | Basalt, gray, frac, hard, & some cs, green |
| 749 | 759 | Basalt, gray, frac, hard |
| 759 | 762 | Basalt, gray, frac, hard, & cs, blue-grn |
| 762 | 764 | Basalt, gry, brkn, soft, & cly, sandy, drk gry, & cs, blue-grn |
| 764 | 777 | Basalt, gray, brkn, med, & cs, blue-grn |
| 777 | 779 | Basalt, gray, frac, med-hard |
| 779 | 797 | Basalt, gray, frac, hard, & some cs, blue-grn |
| 797 | 798 | Basalt, gry, brkn, med-soft, & cly, sticky, sand, dk gry |
| 798 | 807 | Basalt, gry, brkn, med-soft, & cly, dk gry, sandy, & sandstone, blue-grn |
| 807 | 811 | Basalt, gray, brkn, med, & some cs, blue-green |
| 811 | 828 | Basalt, black, frac, med |
| 828 | 830 | Basalt, black, very frac, med |
| 830 | 840 | Basalt, dk gray, frac, med-soft, & some cs, green |
| 840 | 855 | Basalt, dk gray, some frac, ves, med-hard |
| 855 | 872 | Basalt, dk gray, some frac, hard |
| 872 | 874 | Basalt, dk gray, frac, ves, med-hard |
| 874 | 882 | Basalt, dk gray, frac, med |
| 882 | 887 | Basalt, dk gray, very frac, med |
| 887 | 892 | Basalt, dk gray & blue, very frac, med |
| 892 | 897 | Basalt, brown, frac, med |

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CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION

Start Card No. 46226, cont.

| <u>From</u> | <u>To</u> | <u>Description</u> |
|-------------|-----------|---|
| 897 | 925 | Basalt, black, frac, med |
| 925 | 927 | Basalt, black, more frac, med |
| 927 | 932 | Basalt, brown, frac, some ves, med |
| 932 | 946 | Basalt, black, frac, med |
| 946 | 949 | Basalt, dk gray, frac, med |
| 949 | 952 | Basalt, black, frac, med |
| 952 | 957 | Basalt, dk brown, frac, med |
| 957 | 960 | Basalt, brown-gray, frac, med-soft |
| 960 | 972 | Basalt, brown-black, frac, med |
| 972 | 973 | Basalt, dk gray & brown, frac, med-hard |
| 973 | 982 | Basalt, black, frac, med |
| 982 | 985 | Basalt, dk gray, frac, hard |
| 985 | 1019 | Basalt, black, frac, med |
| 1019 | 1022 | Basalt, black, more frac, med-soft |
| 1022 | 1030 | Basalt, brown-black, frac, med-soft |
| 1030 | 1032 | Basalt, black, frac, med |
| 1032 | 1037 | Basalt, brown-black, very frac/brkn, soft |
| 1037 | 1056 | Basalt, black, very frac/brkn, soft |
| 1056 | 1058 | Basalt, black, some frac, med-soft |
| 1058 | 1060 | Basalt, brown, frac, med-soft |
| 1060 | 1067 | Basalt, black, frac, med |
| 1067 | 1070 | Basalt, black, some frac, med |
| 1070 | 1071 | Basalt, black & brown, frac, med |
| 1071 | 1075 | Basalt, black, frac, med |
| 1075 | 1077 | Basalt, gray, more frac, med |
| 1077 | 1081 | Basalt, gray, very frac, some ves, med-soft |
| 1081 | 1085 | Basalt, gray, very frac, some ves, soft |
| 1085 | 1089 | Claystone, brown, soft |
| 1089 | 1100 | Basalt, gray, hard |

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