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STATE OF OREGON WATER WELL REPORT FEB 2 1988 (as required by ORS 537.765)

(1) OWNER: WATER RESOURCES DEPT. SALEM, OREGON PW-1 Name City of St. Helens Address P. O. Box 278 City St. Helens, Oregon State Zip 97051

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

(3) DRILL METHOD [X] Rotary Air [X] Rotary Mud [] Cable [] Other

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

BORE HOLE CONSTRUCTION: Special Construction approval Yes No Depth of Completed Well 327 ft. Explosives used [] [X] Type Amount

Table with columns: HOLE Diameter, SEAL Material, Amount sacks or pounds. Row 1: 12, 90, 327, Cement, 0, 90, 72 sacks

How was seal placed: Method [] A [] B [X] C [] D [] E Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 12", +18", 90, .250, [X], [], [X], []

(7) PERFORATIONS/SCREENS: [] Perforations Method [] Screens Type Material

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner

(8) WELL TESTS: Minimum testing time is 1 hour. [X] Pump [] Bailer [] Air [] Flowing Artesian. Yield gal/min, Drawdown, Drill stem at, Time

Temperature of water 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:

(9) LOCATION OF WELL by legal description: County Columbia Latitude Longitude Township 4 N Nor S, Range 1 W E or W, WM. Section 17 SW 1/4 NE 1/4 Tax Lot Lot Block Subdivision Street Address of Well (or nearest address)

(10) STATIC WATER LEVEL: 26 ft. below land surface. Date 1/19/88 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 110-112

Table with columns: From, To, Estimated Flow Rate, SWL. Rows: 110-112 (35 gpm, 26), 196-198 (350 gpm, 26), 211-214 (275 gpm, 26), 240-250 (50 gpm, 26)

(12) WELL LOG: Ground elevation. Table with columns: Material, From, To, SWL. Rows: Topsoil (0-1), Soft brown silty clay (1-7), Fine brown silty sand (7-28), Med. to coarse gravel w/brown and black sand (28-41), Med. to coarse gravel w/blue-gray clay (41-47), Sticky red-brown clay (47-54), Soft decomposed brown basalt (54-61), Firm decomposed brown basalt (61-69), Broken gray basalt w/black claystone streaks (69-75), Soft gray basalt (75-78), Decomposed brown basalt (78-81), Firm gray claystone (81-84), Hard gray basalt- occ. black fractured streak (84-142, 26'), Soft gray basalt (visic) w/gray & brown claystone (142-164), Firm gray-black basalt (164-179), Hard gray-black basalt w/broken interbeds (179-233), Soft greenish-black basalt (233-238)

Date started 11/5/87 Completed 1/22/88 (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 Date

(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 1266 Date 1/30/88

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STATE OF OREGON
WATER WELL REPORT
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FEB 2 1988 Page 2

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(1) OWNER: Well Number: PW-1
Name: WATER RESOURCES DEPT.
Address: SALEM, OREGON
City: State: Zip:

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

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable
 Other

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

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

HOLE SEAL Amount
Diameter From To Material From To sacks or pounds

How was seal placed: Method A B C D E
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing:
Liner:

Location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method _____
 Screens Type _____ Material _____
From To Slot size Number Diameter Tele/pipe size Casing Liner

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem at Time

Temperature of water _____ 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: _____

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

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

(11) WATER BEARING ZONES:
Depth at which water was first found _____
Table with columns: From, To, Estimated Flow Rate, SWL

(12) WELL LOG: Ground elevation _____
Table with columns: Material, From, To, SWL

Date started _____ Completed _____

(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.
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