

WATER WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT. (START CARD) # 19829

MORROW 1526

(1) OWNER: Name Port of Morrow, Address PO Box 200, City Boardman, State OR, Zip 97818

(9) LOCATION OF WELL by legal description: County Morrow, Township 4N, Range 25E, Section 10, NE 1/4

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

(3) DRILL METHOD: [] Rotary Air, [X] Rotary Mud, [X] Cable, [X] Other Reverse Circulation Air Rotary

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

(10) STATIC WATER LEVEL: ft. below land surface, Date, Artesian pressure 18 lb. per square inch, Date 2/1/91

(5) BORE HOLE CONSTRUCTION: Special Construction approval Yes No, Depth of Completed Well 900 ft., Explosives used [] [X] Type Amount

(11) WATER BEARING ZONES: Table with columns From, To, Estimated Flow Rate, SWL. Includes data for zones 677-900 and 7-33.

HOLE SEAL table with columns Diameter, From, To, Material, From, To, Amount sacks or pounds.

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

(12) WELL LOG: Table with columns Material, From, To, SWL. Includes Step Test data: 1675 gpm 60' DD after 2.3 hrs, etc.

(6) CASING/LINER: Table with columns Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded.

(7) PERFORATIONS/SCREENS: [X] Perforations Method factory mill cut, [X] Screens * Type Material

Table for Perforations/Screens 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, [X] Flowing Artesian

(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.

Yield gal/min, Drawdown, Drill stem at, Time, -step test reported in (12), -24 hour constant rate test on attached graph, -well flows 1500 gpm with approx 2 psi back pressure, Temperature of water 75°, Depth Artesian Flow Found below 650

(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.

Port of Morrow
Well #4

RECEIVED

Start Card No. 19829
by Schneider Drilling Co.

FEB - 6 1991

WATER RESOURCES DEPT.
SALEM, OREGON

<u>From</u>	<u>To</u>	<u>Description</u>
0	3	Sand, brown, med w/some gravel
3	8	Gravel 4" minus & sand, med-coarse
8	18	Gravel 10" minus & sand, coarse, some cemented
18	33	Gravel 10" minus & sand, med-coarse, tan
33	39	Gravel 8" minus w/clay, brown
39	56	Gravel 3" minus w/clay, binder, brown
56	57	Basalt, brown, fractured
57	62	Basalt, black, hard
62	80	Basalt, black & grey, hard
80	83	Basalt, black & grey, hard, some fractures
83	88	Basalt, brown, med
88	91	Basalt, brown, soft
91	101	Clay, brown, soft
101	111	Clay, grey-blue, soft
111	128	Clay, greenish blue w/brown rock & claystone
128	133	Basalt, black & grey, vesicular
133	136	Basalt, red & brown, vesicular
136	139	Basalt, grey & brown, med
139	150	Basalt, grey, hard
150	153	Basalt, multi-color: brown, black, grey, hard
153	182	Basalt, grey, hard
182	188	Basalt, mostly grey, some brown & red, hard
188	278	Basalt, grey, hard
278	283	Basalt, grey & black, med
283	290	Basalt, green & purple, soft
290	339	Clay, green w/black rock
339	345	Claystone, blueish green
345	371	Basalt, black w/blue clay & claystone
371	381	Basalt, black
381	499	Basalt, grey, hard
499	514	Clay, green w/some rock, black
514	521	Clay, greyish brown
521	552	Clay, blueish green w/claystone, blueish green
552	569	Basalt, grey, med
569	571	Basalt, grey, med to hard
571	622	Basalt, grey, hard
622	652	Basalt, grey, hard, fractured
652	677	Clay, multi-color, green, brown w/some basalt, black
677	696	Basalt, black, vesicular w/green clay
696	706	Basalt, black, vesicular w/quartz
706	712	Basalt, multi-color, broken, vesicular
712	716	Basalt, black fractures w/vesicular basalt
716	724	Basalt, grey & black, fractures
724	766	Basalt, grey, very fractured, hard
766	775	Basalt, black, med, fractured
775	782	Basalt, black & red, vesicular, soft
782	785	Basalt, black, fractured
785	807	Basalt, red, fractured, stained & black basalt
807	822	Basalt, black, fractured
822	835	Basalt, red & black vesicular, very, very soft
835	845	Basalt, black & red, much harder, fractured
845	867	Basalt, black, some fractures, med
867	885	Basalt, black, fractured
885	900	Basalt, gray, some fractures