

NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the  
STATE ENGINEER, SALEM 10, OREGON  
within 30 days from the date  
of well completion.

**RECEIVED**

MAR 1964

**WATER WELL REPORT**

MAR 31 1964 STATE OF OREGON

(Please type or print)

16362

State Well No. 7/24-31

**STATE ENGINEER**

State Permit No. \_\_\_\_\_

**(1) OWNER:**

Name CITY OF SALEM  
Address CASCADE GATEWAY PARK

**(2) LOCATION OF WELL:**

County MARION Driller's well number \_\_\_\_\_  
SW 1/4 SW 1/4 Section 31 T. 7S R. 2W W.M.  
Bearing and distance from section or subdivision corner  
700' N and 500' E of SW Cor Sec 31

**(3) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon   
Abandonment, describe material and procedure in Item 12.

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal  Rotary  Driven   
Irrigation  Test Well  Other  Cable  Jetted   
Dug  Bored

**(5) TYPE OF WELL:**

**(6) CASING INSTALLED:** Threaded  Welded   
12" Diam. from 0 ft. to 30 ft. Gage .250  
8" Diam. from 1 ft. to 156.3" ft. Gage .322  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**(7) PERFORATIONS:**

Perforated?  Yes  No  
Type of perforator used Mills knife  
Size of perforations 3/8 in. by 2 in.  
600 perforations from 58 ft. to 108 ft.  
120 perforations from 113 ft. to 123 ft.  
40 perforations from 146 ft. to 152 ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) SCREENS:**

Well screen installed  Yes  No  
Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(9) CONSTRUCTION:** 12" drilled bentonite

Well seal—Material used in seal Con. grout 8" to 12"  
Depth of seal 30 ft. Was a packer used? no  
Diameter of well bore to bottom of seal 12 in.  
Were any loose strata cemented off?  Yes  No Depth \_\_\_\_\_  
Was a drive shoe used?  Yes  No  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

**(10) WATER LEVELS:**

Static level 12 ft. below land surface Date 3/27/64  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

**(11) WELL TESTS:**

Drawdown is amount water level is lowered below static level  
Was a pump test made?  Yes  No If yes, by whom? Duffields  
Yield: 215 gal./min. with 35.7 ft. drawdown after 14 hrs.  
" 260 " " 39.6 " " 4 1/2 "  
" 300 " " 49.4 " " 5 "  
Bailer 350 gal./min. with 67.4 ft. drawdown after 1/2 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water 51 Was a chemical analysis made?  Yes  No

**(12) WELL LOG:**

Diameter of well below casing 8"  
Depth drilled 159 ft. Depth of completed well 159 ft.  
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Soil-surface clay	0	3
Sand and gravel-clay, brown boulders to 2 1/2'	3	30.5
Sand and gravel, brown clay	30.5	53
Sand, coarse to fine, brown	53	56
Sand and gravel, brown, with clay, water bearing	56	83
Sand and gravel, buff clay water bearing	83	109
Sand, coarse and fine, with dark brown clay	109	111
Sand and gravel, buff clay water bearing	111	123
Clay, dark brown (decomposed lava)	123	142
Lava, partially decomposed dark brown, vesicular	142	155
Lava (Basalt, black)	155	159

Work started 2/28/64 19 Completed 3/27/64 19  
Date well drilling machine moved off of well 3/30/64 19

**(13) PUMP:**

Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ H.P. \_\_\_\_\_

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME DUFFIELD BROS  
(Person, firm or corporation) (Type or print)

Address 4123 BLUFF AVE SE SALEM, OREGON

Drilling Machine Operator's License No. 46 and 47

[Signed] Edward Duffield  
(Water Well Contractor)

Contractor's License No. 15 Date 3/30/64, 19\_\_\_\_

M 371... [scribbles]

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WATER WELL REPORT

STATE OF OREGON (Please type or print)

State Well No. ....

State Permit No. ....

(1) OWNER:

Name CITY OF SALEM Address CASCADE GATEWAY PARK

(2) LOCATION OF WELL:

County Driller's well number Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

Well Deepening Reconditioning Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic Industrial Municipal Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Cable Dug Driven Jetted Bored

(6) CASING INSTALLED:

Threaded Welded Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? Yes No Type of perforator used Size of perforations in. by in. perforations from ft. to ft.

(8) SCREENS:

Well screen installed Yes No Manufacturer's Name Model No. Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Well seal—Material used in seal Depth of seal Was a packer used? Diameter of well bore to bottom of seal Were any loose strata cemented off? Yes No Depth Was a drive shoe used? Yes No Was well gravel packed? Yes No Size of gravel: Gravel placed from ft. to ft. Did any strata contain unusable water? Yes No Type of water? Depth of strata Method of sealing strata off

(10) WATER LEVELS:

Static level ft. below land surface Date Artesian pressure lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level Was a pump test made? Yes No If yes, by whom? Yield: gal./min. with ft. drawdown after hrs. Bailer test gal./min. with ft. drawdown after hrs. Artesian flow g.p.m. Date Temperature of water Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well below casing ft. Depth drilled ft. Depth of completed well ft. Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

Table with columns MATERIAL, FROM, TO. Text: Formation quite compact, with clay throughout sand and gravel formations. After perforating well was surged to remove all loose sand and clay. 200 pounds of polyphosphates in solution were added to the water in the well and surged back into the clay formations. This was allowed to set for a period of 18 hours. Well was then surged to remove all the sand and clay loosened by the polyphosphates. Pump was then installed and pumped to clear for four hours. Test was then started and well was pumped for a period of 24 hours. Pump was then removed and well cleaned to the 159' depth. Work started 19 Completed 19 Date well drilling machine moved off of well 19

(13) PUMP:

Manufacturer's Name Type: H.P.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME DUFFIELD BROS (Person, firm or corporation) (Type or print)

Address 4123 Bluff Ave SE, Salem, Ore.

Drilling Machine Operator's License No.

[Signed] Edward Duffield (Water Well Contractor)

Contractor's License No. Date 19...