

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

WATER WELL REPORT

RECEIVED

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

WASC 003444

STATE OF OREGON (Please type or print)

State Well No. JUL 21 1976

Water Resources Dept. SALEM, OREGON

18/13E-26 de

(1) OWNER:

Name CITY OF DUFUR Address CITY HALL, DUFUR, ORE.

(2) TYPE OF WORK (check):

New Well [X] Deepening [] Reconditioning [] Abandon []

(3) TYPE OF WELL:

Rotary [X] Cable [X] Dug [] Driven [] Jetted [] Bored []

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal [X] Irrigation [] Test Well [] Other []

(5) CASING INSTALLED:

12" Diam. from 0 ft. to 35 ft. Gage 375 10" Diam. from +2 ft. to 385 ft. Gage 365

(6) PERFORATIONS:

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

(7) SCREENS:

Well screen installed? [] Yes [X] No Manufacturer's Name Type Model No. Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level Was a pump test made? [] Yes [X] No If yes, by whom? Yield: gal./min. with ft. drawdown after hrs. Bailer test gal./min. with ft. drawdown after hrs. Artesian flow 1000 g.p.m. Temperature of water 63 Depth artesian flow encountered 621 ft.

(9) CONSTRUCTION:

Well seal—Material used CEMENT GROUT Well sealed from land surface to 35 ft. Diameter of well bore to bottom of seal 16 in. Diameter of well bore below seal 12 in. To 400 FT. Number of sacks of cement used in well seal 26 OUTSIDE OF 12" PIPE 4 SACKS CEMENT OUTSIDE OF 10" PIPE Brand name of bentonite Number of pounds of bentonite per 100 gallons of water Was a drive shoe used? [] Yes [X] No Plugs Size: location ft. Did any strata contain unusable water? [X] Yes [] No Type of water? ARTESIAN depth of strata 385 FT Method of sealing strata off CASING AND GROUT Was well gravel packed? [] Yes [X] No Size of gravel: Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County WASC Driller's well number 5518 NE 1/4 SE 1/4 Section 26 T. 15 R. 13E W.M. Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 147 ft. Static level ft. below land surface. Date Artesian pressure 58 lbs. per square inch. Date 7/2/76

(12) WELL LOG:

Diameter of well below casing 10 Depth drilled 624 ft. Depth of completed well 624 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Table with columns: MATERIAL, From, To, SWL. Content: SEE ATTACHED SHEET

Work started APRIL 5 1976 Completed JULY 2 1976 Date well drilling machine moved off of well JULY 7 1976

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Floyd J. Sped Date JULY 19, 1976 (Drilling Machine Operator)

Drilling Machine Operator's License No. 941

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 RJ STRASSER DRILLING CO (Person, firm or corporation) (Type or print)

Address 8110 SE SUNSET LANE PORTLAND, ORE.

[Signed] Robert L. Strasser (Water Well Contractor)

Contractor's License No. 10 Date JULY 19, 1976

R. J. Strasser Drilling Co.

8110 S. E. Sunset Lane
Portland, Oregon 97206

top soil	0 - 3
clay and gravel	3 - 9
brown broken basalt	9 - 17
grey basalt	17 - 44
dark grey basalt	44 - 65
brown and grey basalt	65 - 72
dark grey basalt	72 - 91
grey basalt	91 - 147
brown and grey basalt	147 - 183
black basalt	183 - 190
grey basalt	190 - 197
broken brown and black basalt	197 - 211
red and black basalt	211 - 225
dark grey basalt	225 - 266
broken grey basalt	266 - 296
grey basalt	296 - 354
broken grey basalt	354 - 385
black basalt	385 - 400
grey basalt with mud seams	400 - 405
medium hard grey basalt	405 - 420
grey basalt with mud seams	420 - 453
hard grey basalt	453 - 457
grey basalt with mud seams	457 - 483
hard grey basalt	483 - 490
green shale	490 - 492
porous grey basalt with sediments	492 - 506
soft grey basalt	506 - 508
medium hard grey basalt	508 - 602
grey basalt with clay seams	602 - 619
broken grey basalt	619 - 621
porous black basalt	621 - 624



UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Water Resources Division
Post Office Box 3202
Portland, Oregon 97208

April 15, 1968

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Wasco
RECEIVED
APR 16 1968
STATE ENGINEER
SALE OREGON

1/13-29
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Wasco Co.

Mr. William E. Miller
The Miller Ranch Company
5 Greenwood Avenue
Bend, Oregon 97701

Dear Mr. Miller:

In response to your April 9 inquiry about information on ground-water conditions at your property in sections 29 and 30, T. 1 S., R. 13 E., 3 miles west of Dufur.

If your land is in the northern part of these sections, at 1,200 to 1,500-foot altitude along Eightmile Creek, a different situation exists than if it is up on the upland plateau at 2,000-foot altitude in the southern part of these sections.

The whole area is underlain by the Dalles Formation, a rudely stratified series of tuff, sandstone, and conglomerate locally called the "Chalkrock" or the "sandstone." It is largely nonpermeable and nonwater-bearing for wells of irrigation capacity. Underlying the Dalles Formation is basalt of the Columbia River Group, a stratified succession of black lava flows. It is the main rock of the region to the north and east where it is exposed extensively in the creek canyons and in the Columbia River Gorge. The basalt contains some permeable zones in the top of some of the lava flows. These permeable zones supply the ground water withdrawn by the irrigation and public-supply wells of the region.

The top of the basalt lies at about 1,000-foot altitude, 100 or 200 feet below the surface of Eightmile Creek Valley in the northern part of section 30. In most places it is necessary to drill several hundred feet into the basalt to open enough permeable zones to obtain ground water in irrigation quantities. The penetration necessary varies considerably from place to place in the region.

The level at which the water will stand in the well (and hence the pump lift) differs from place to place. Generally, in the valleys near your area, the static-water level in wells stands within 100 feet of the surface; thus, you may be able to obtain water in irrigation quantities with a 400 or 500-foot well at the northern edge of section 30 or 29. An additional depth corresponding to the altitude rise would be necessary farther south.

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Wasco

Wells drawing water from the basalt can be visited at the Oades Ranch on Fivemile Creek, the Dick Bros.' Ranch in Jap Hollow, and the McAllister place on Fifteenmile Creek, 2 miles south of your place.

A small brochure on the occurrence of ground water in the basalt is enclosed.

Sincerely yours,

R. C. Newcomb
Research Geologist

Enclosure

cc:
State Engineer Salem, Oregon
Wasco County Watermaster, The Dalles, Oregon
District Chief, WRD, Portland, Oregon