

CLAC 04579

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
AUG 26 1963
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT

State Well No. 2/3-5R(1)

State Permit No.

(1) OWNER:

Name Damascus Water District
Address Damascus, Oregon

(2) LOCATION OF WELL:

County Clatsop Driller's well number
S. 1/4 S. 1/4 Section 43 T. 2 S. R. 3 W. W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(6) CASING INSTALLED:

Threaded Welded
1st 10" Diam. from 0 ft. to 40 ft. Gage 2250
2nd 16" Diam. SEE WELL LOG on bottom
3rd 8" Diam. from 0 ft. to 83 1/2 ft. Gage 2277

(7) PERFORATIONS:

Perforated? Yes No

Type of perforator used 1 way star Drive down
Size of perforations 3/8 in. by 1 1/2 in.
30 perforations from 300 ft. to 305 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ 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:

Well seal—Material used in seal sand, gravel & cement
Depth of seal 40 ft. Was a packer used? No
Diameter of well bore to bottom of seal 16 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 190 ft. below land surface Date 7/30/63
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? Bottner Drilling Co
Yield: 170 gal./min. with 61 ft. drawdown after 1 hrs.
" 200 " " 76 1/2 " " 2 "
" 225 " " 84 " " 4 "
1/4 hr. at 250 gal./min. with 91 ft. drawdown after 1 1/2 hrs.
1/4 hr. at 275 " " 94 " " 1 1/2 "
Temperature of water 53 ° Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled 1066 ft. Depth of completed well 1066 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
Clay, red	0	38
Rock, red, grayish	38	157
Rock, gray, hard (some water)	157	303
Gravel, cemented, box 20-25g.	303	352
Clay, blue	352	387
Rock, gray, lava	387	399
Clay, blue	399	427
Rock, gray, lava	427	434
Clay, gray	434	445
Shale, gray, sandy	445	465
Clay, blue, streaked w/red cl	465	833
Basalt, gray, soft, w/traces of clay, some water	833	860
Rock, basalt, dark gray	860	975
Rock, basalt, black, traces of brown & red particles	975	1012
Basalt, w/ledge of gray shale	1012	1014
Basalt, black, very hard	1014	1023
Rock (sand rock)	1023	1036
Basalt, black, hard (some greenish)	1036	1040
Basalt, black, w/soft streaks	1040	1066
(Water Bearing)		

with casing 28 to 46 1/2 ft.
Work started Jan 28 1962 Completed Jan 16 63
Date well drilling machine moved off of well _____ 19 _____

with Rotary-Exploratory hole
(1) Pump started Jan. 21-63 -- moved 3/18/63
Manufacturer's Name _____
200 w/ cable to run pipe & develop
200 w/ cable to run pipe & develop
Jan 3 63 pulled T. Pump moved machine
Water Well Contractor's Certificate No. _____ July 31 63

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

NAME Haakon Bottner Drilling Company
(Person, firm or corporation) (Type or print)
Address 3424 S.E. 174th, Portland Oregon

Drilling Machine Operator's License No. 246

[Signed] Haakon Bottner
(Water Well Contractor)

Contractor's License No. 109 Date 8/26/63 19 _____

2/3-5 R(1)
CLACKAMAS

OREGON STATE BOARD OF HEALTH
Mineral Content of Water

JAN 18 1965
STATE

Name of Water Supply Damascus
Source Well
Sampling Point Well
Collected By F. G. Ketzal Date 1/6/65
Analysis By A. W. Hose Date 1/14/65
Laboratory Number 885

	<u>Mg/L</u>		<u>Mg/L</u>
Color	<u>2</u>	Conductance (mc mho/cm)	<u>183</u>
Turbidity	<u>32</u>	Chlorides	<u>4.2</u>
Solids, Total	<u>364</u>	Sodium	<u>11.2</u>
Solids, Volatile	<u>93</u>	Potassium	<u>2.0</u>
Carbon Dioxide	<u>6.0</u>	Fluoride	<u>0.22</u>
pH	<u>7.5</u>	Phosphates	<u>0.18</u>
Alkalinity, Total as CaCO ₃	<u>95</u>	Sulfates	<u>1.5</u>
Hardness as CaCO ₃	<u>88.9</u>	Silicon	<u>51</u>
Calcium	<u>13.4</u>	Aluminum	<u>< 0.05</u>
Magnesium	<u>13.4</u>	Nitrogen, Ammonia	<u>0.25</u>
Iron	<u>0.04</u>	Nitrogen, Nitrite	<u>0.02</u>
Manganese	<u>< 0.05</u>	Nitrogen, Nitrate	<u>0.40</u>
Arsenic	<u>< 0.005</u>		

REMARKS _____



LABORATORY CERTIFICATE
Charlton Laboratories

ANALYTICAL AND CONSULTING CHEMISTS
 Physical Testing . . . Sanitary Bacteriology

2340 S. W. JEFFERSON STREET
 P. O. BOX 1048
 PORTLAND, OREGON 97207
 PHONE 228-9663

2/3-5R
Clackamas

RECEIVED
 AUG 17 1967

STATE ENGINEER

SALEM, OREGON
 LABORATORY NO. 82758

DATE: July 26, 1967

DATE RECEIVED: 7/18/67

TO: Damacus Water District
 Rt. 2 Box 406
 Boring, Oregon
 Attention: Mr. Thomas C. Gray

SUBJECT: Well Water
 Well #2

ANALYSIS

pH Value	7.50
Total Solids (Residue on Evaporation)	<u>parts per million</u> 160
Alkalinity (as CaCO ₃)	
Carbonate	3
Bicarbonate	0
Hardness (as CaCO ₃)	94
Iron (Fe)	64
Chloride (Cl)	0.08
Sulfate (SO ₄)	6.2
	1.0

REMARKS: This is a just slightly hard bicarbonate type water (water less than 60 p.p.m. hardness is considered soft water). The total mineralization is low as is the iron content. This water should be satisfactory for general use and will require only moderate treatment for use in steam boilers.

CHARLTON LABORATORIES, INC.

J. M. Hogl
 J. M. Hogl

JMH:lr
 3c