



# Oregon

Theodore R. Kulongoski, Governor

## Water Resources Department

North Mall Office Building  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266  
503-986-0900  
FAX 503-986-0904

March 10, 2010

VANCE WAGNER #1738  
TED PULLIAM WELL DRILLING  
PO BOX 505  
GRESHAM OR 97030

### FINAL ORDER

Dear Mr. Wagner:

The Special Standard request you submitted for owner: Sunrise Water Authority, Start Card number 1009456, is hereby approved for the following: You may abandon this water supply well (Clac 4582) as described on your Special Standards Request Form. All other standards must be adhered to. A copy of your Special Standards Request Form is enclosed.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions regarding this letter, I may be contacted at (503) 986-0851, or by e-mail at [Kristopher.R.Byrd@wrд.state.or.us](mailto:Kristopher.R.Byrd@wrд.state.or.us).

Sincerely,

Kristopher Byrd, Coordinator  
Well Construction Program  
Well Construction and Compliance Section

enclosure

cc: Jon Unger, NW Region Well Inspector  
File

**This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.**





Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1266
(503) 986-0900
www.vrd.state.or.us

Special Standards
Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 3/3/10 Oral approval date (if applicable): 3/3/10

Bonded Well Constructor (name, license #, and mailing address): Vance Wagner
Lic # 1738 PO Box 505 Gresham OR 97030

(1) Location of Well: S6 1/4 SE 1/4 Tax lot 2100 Section 5

Township 28 Range 3E Clackamas County

Address at well site: 19750 SE Damascus Lane
Damascus OR 97089

(2) Start Card Number(s)(for work to be done): 1009456

(3) Name and Address of Land Owner: Sunrise Water Authority

10602 SE 129th Ave Happy Valley OR 97086

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)

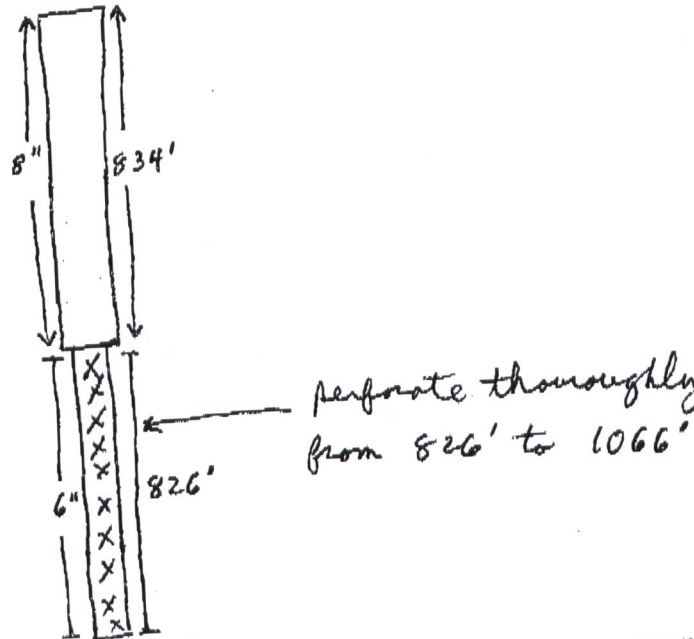
Abandonment of existing well in city. Undetermined where sewage lines are located

(5) The unusual site conditions which necessitate this request: None

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)

To perforate 6" steel liner from 826 feet to 1066 feet prior to pumping full of cement, liner could not be extracted.

- (7) Diagram showing the pertinent features of the proposed well design and construction:  
(attach additional pages if needed)



PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/owner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: \_\_\_\_\_

*Vance Wagner*

**OLSEN - PULLIAM**  
**WELL DRILLING & PUMPS**  
9480 S.E. 172ND • BORING, OR 97009 • (503) 665-3353

**FAX COVER LETTER**

To: Chris Berg

From: Vance Wagner

Fax Number: 1-503-986-0903

Fax Number: (503) 665-5285

Company: W.R.D.

Date: 3/6/10

# of Pages (including cover) 3

Message: Re: Special Standards Damascus Abandonment

Multiple horizontal lines for additional message content, currently blank.

RECEIVED  
AUG 26 1963  
STATE ENGINEER  
SALEM, OREGON

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.

WATER WELL REPORT  
STATE OF OREGON  
(Please type or print)

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. 2 1/4 S. 2 1/4 Section 5 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  Jettied   
Dug  Bored

(6) CASING INSTALLED: Threaded  Welded   
10" Diam. from 0 ft. to 40 ft. Gage #250  
16" Diam. on bell hole on bottom  
8" Diam. from 0 ft. to 834 ft. Gage #277

(7) PERFORATIONS: Perforated?  Yes  No  
Type of perforator used 1 way star Drive down  
Size of perforations 3/8 in. by 14 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? Boffinger Co  
Yield: 170 gal./min. with 61 ft. drawdown after 1 hrs.  
" 200 " 74 " " 2 "  
" 225 " 84 " " 4 "  
Static level 250 gal./min. with 91 ft. drawdown after 1 hrs.  
Static level 275 " " " 14 "  
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
Block red, grayish	38	157
Block gray, hard (some water)	157	303
Gravel, cemented approx 20-25%	303	352
Clay, blue	352	387
Block, gray, lava	387	399
Clay, blue	399	427
Block, gray, lava	427	434
Clay, gray	434	465
Shale, gray, sandy	465	565
Clay, blue, streaked w/red cl	565	833
Basalt, gray, soft, & traces of clay, some water	833	860
Block, basalt, dark gray	860	975
Block, basalt, black, traces of brown & red particles	975	1012
Basalt, w/ledge of gray shale	1012	1014
Basalt, black, very hard	1014	1023
Block (sand rock)	1023	1036
Basalt, black, hard (some greenish)	1036	1060
Basalt, black, w/salt strata (water bearing)	1060	1066

Work started Jan 28 1962 Completed Jan 16 1963  
Date well drilling machine moved off of well \_\_\_\_\_

16" Rotary-Exploratory hole  
started Jan. 21-63 -- moved 3/18/63  
16" w/ cable to run pipe & develop  
3/27/63  
July 31 63 pulled T. Pump moved machine  
Water Well Contractor's Certificate \_\_\_\_\_

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief:  
Haakon Bottner Drilling Company  
NAME \_\_\_\_\_ (Person, firm or corporation) (Type or print)  
Address 3424 S.E. 17th, 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. Katzel 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 <sub>3</sub>	<u>95</u>	Sulfates	<u>1.5</u>
Hardness as CaCO <sub>3</sub>	<u>88.9</u>	Silicon	<u>51</u>
Calcium	<u>13.4</u>	Aluminum	<u>&lt; 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>&lt; 0.05</u>	Nitrogen, Nitrate	<u>0.40</u>
Arsenic	<u>&lt; 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

**RECEIVED**  
 AUG 17 1967

STATE ENGINEER

SALEM, OREGON

LABORATORY NO. 82758

DATE: July 26, 1967

DATE RECEIVED: 7/18/67

TO: Damascus 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 <sub>3</sub> )	
Carbonate	0
Bicarbonate	94
Hardness (as CaCO <sub>3</sub> )	64
Iron (Fe)	0.08
Chloride (Cl)	6.2
Sulfate (SO <sub>4</sub> )	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

#16

CLAC  
2944

25/3E/5dd

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

(START CARD) #W-20338

(1) OWNER: Well Number: 3-91  
Name Damascus Water Dist.  
Address 19750 SE Damascus Lane  
City Boring State Ore Zip 97009

(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 1006 ft.  
Explosives used Yes  No  Type Amount

Table with columns: HOLE Diameter, SEAL Material, Amount sacks or pounds. Includes sub-columns for From, To.

How was seal placed: Method  A  B  C  D  E  
 Other

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. Includes entries for Casing and Liner.

Final location of shoets)

(7) PERFORATIONS/SCREENS:  
 Perforations Method  
 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  
 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  No 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 Clack Latitude Longitude  
Township 29 N or S. Range 9E E or W, WM.  
Section 6 SE 1/4 9E 1/4  
Tax Lot Lot Block Subdivision  
Street Address of Well (or nearest address) 19750 SE Damascus Lane, Boring, Or. 97009

(10) STATIC WATER LEVEL:  
191 ft. below land surface. Date 3-8-91  
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  
Material From To SWL  
See Attached logs for original construction  
MAR 27 1991  
WATER RESOURCES DEPARTMENT

Date started 3-1-91 Completed 3-11-91

(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 Steinmaier Bros. Dr. Co. 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 Randal L. McBrall WWC Number  
Date 3-25-91

OREGON STATE BOARD OF HEALTH

Mineral Content of Water

RECEIVED  
JAN 15 1965  
STATE ENGINEER  
TALEM, OREGON

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

	<u>Mg/L</u>		<u>Mg/L</u>
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Magnesium	<u>13.4</u>	Nitrogen, Ammonia	<u>0.25</u>
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Manganese	<u>&lt; 0.05</u>	Nitrogen, Nitrate	<u>0.40</u>
Arsenic	<u>&lt; 0.005</u>		

REMARKS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LABORATORY CERTIFICATE

*Charlton Laboratories*

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Physical Testing . . . Sanitary Bacteriology

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 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

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

NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the  
STATE ENGINEER, SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

CLAC

WATER WELL REPORT

04582

STATE OF OREGON

(Please type or print)

(Do not write above this line)

RECEIVED

APR 9 1974

State Well No. 25/3E-5

STATE ENGINEER  
SALEM, OREGON

State Permit No.

(1) OWNER:

Name DAMASCUS WATER DISTRICT  
Address 19781 Highway 212  
Boring Oregon

(2) TYPE OF WORK (check): (WELL NO. L)

New Well  Deepening  Reconditioning  Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary  Driven   
Cable  Jetted   
Dug  Bored

(4) PROPOSED USE (check):

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(10) LOCATION OF WELL:

County Clackamas Driller's well number  
S.E. 1/4 S.E. 1/4 Section 5 T. 2S. R. 3E W.M.  
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found \_\_\_\_\_ ft.  
Static level 190 ft. below land surface. Date 1/31/74  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date

(12) WELL LOG:

Cased to  
cleaned Diameter of well below casing bottom  
Depth drilled to 1066 ft. Depth of completed well 1066 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.

MATERIAL	From	To	SWL
Bailed, drilled and cleaned out from 960 ft. to bottom			
Shale, gray and broken rock cavings	960	1066	
In 1963 the 8 inch casing installed to 834 ft. Feb. 11th 1974 installed the 240 ft. of perforated liner from 826 to bottom, overlapped 8 ft. Welded Drive Shoe on bottom and one on top of liner, for safety in case of hard driving.			

Work started Jan. 31 19 74 Completed Feb. 12 19 74  
Date well drilling machine moved off of well Feb. 13 19 74

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] Earl V. Baker Date March 4, 1974  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 190

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 HAAKON BOTTNER DRILLING CO.  
(Person, firm or corporation) (Type or print)

Address 3424 S.E. 17th., PORTLAND, OR. 97236

[Signed] Haakon Bottner  
(Water Well Contractor)

Contractor's License No. 109 Date MARCH 4th., 1974

CASING INSTALLED:

Liner 6" Diam. from 826 ft. to 1066 ft. Gage 250  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

(6) PERFORATIONS:

Perforated?  Yes  No.

Type of perforator used TORCH  
Size of perforations 3/16 in. by 6 in.  
280 perforations from 834 ft. to 974 ft.  
170 perforations from 980 ft. to 1063 ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

(7) SCREENS:

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
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  No If yes, by whom?  
Field: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
SEE 1963 Original well report "  
" " " " "  
Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m.  
Temperature of water \_\_\_\_\_ Depth artesian flow encountered \_\_\_\_\_ ft.

(9) CONSTRUCTION:

Well seal—Material used \_\_\_\_\_  
Well sealed from land surface to \_\_\_\_\_ ft.  
Diameter of well bore to bottom of seal \_\_\_\_\_ in.  
Diameter of well bore below seal \_\_\_\_\_ in.  
Number of sacks of cement used in well seal \_\_\_\_\_ sacks  
Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons  
of water \_\_\_\_\_ lbs./100 gals.  
Was a drive shoe used?  Yes  No Plug \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

WATER WELL CONTRACTOR

The original and first copy

of this report are to be

filed with the

ENGINEER, SALEM, OREGON 97310

within 30 days from the date of well completion.

Clack 20631

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. \_\_\_\_\_

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

(1) OWNER:

DAMASCUS WATER DISTRICT  
19781 Highway 212  
Horing Oregon

(2) TYPE OF WORK (check): (WELL NO. 1)

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

(3) TYPE OF WELL:

(4) PROPOSED USE (check):

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

(5) CASING INSTALLED:

Threaded  Welded   
" Diam. from 826 ft. to 1066 ft. Gage .250  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

(6) PERFORATIONS:

Perforated?  Yes  No.

of perforator used TORCH

Size of perforations 3/16 in. by 6 in.  
280 perforations from 834 ft. to 974 ft.  
170 perforations from 980 ft. to 1063 ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

(7) SCREENS:

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
Type \_\_\_\_\_  
Diam. Slot size Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
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  No If yes, by whom?  
Yield: gal./min. with ft. drawdown after hrs.  
SEE 1963 Original well report  
Bauer test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water Depth artesian flow encountered ft.

(9) INSTRUCTION:

Well seal—Material used \_\_\_\_\_  
Well sealed from land surface to \_\_\_\_\_ ft.  
Diameter of well bore to bottom of seal \_\_\_\_\_ in.  
Diameter of well bore below seal \_\_\_\_\_ in.  
Number of sacks of cement used in well seal \_\_\_\_\_ sacks  
Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons \_\_\_\_\_  
Water \_\_\_\_\_ lbs./100 gals.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Do any strata contain unusable water?  Yes  No  
If water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number  
S.E. 1/4 S.E. 1/4 Section 5 T. 28. R. 3E W.  
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found  
Static level 190 ft. below land surface. Date 1/31/74  
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing Cased to bottom  
Depth drilled to 1066 ft. Depth of completed well 1066

Formation: Describe color, texture, grain size and structure of material 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.

MATERIAL	From	To	SWL
Bailed, drilled and cleaned out from 960 ft. to bottom			
Shale, gray and broken rock savings	960	1066	
In 1963 the 8 inch casing installed to 834 ft. Feb. 11th 1974 installed the 240 ft. of perforated liner from 826 to bottom, overlapped 8 ft. Welded drive shoe on bottom and one on top of liner, for safety in case of hard driving.			

Work started Jan. 31 1974 Completed Feb. 12 1974  
Date well drilling machine moved off of well Feb. 13 1974

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] Erik V. Baker Date March 4 1974  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 190

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 HAakon BOTtner DRILLING CO.  
(Person, firm or corporation) (Type or print)  
Address 3424 S.E. 174th., PORTLAND, OR. 97234

[Signed] Haakon Bottner  
(Water Well Contractor)

Contractor's License No. 109 Date MARCH 4th, 1974