

Well1	WASH 11594
Deepening	WASH 11593
Reconditioning	WASH 58004
Well 2	WASH 11592
ASR 1	WASH 58003
ASR 2	WASH 61622
ASR 3	WASH 66115

**Attachment 3  
Well Logs**

**Application for a Groundwater Registration Modification – GR 616**

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10882

STATE ENGINEER  
Salem, Oregon

WASH  
011594

OBSERVATION WELL  
Well-Record

STATE WELL NO. 7/10-4E(6)  
COUNTY Washington  
APPLICATION NO. 616-616

OWNER: Tigard Water District

MAILING G.C.E. Janoe  
ADDRESS: 8900 Burnham Ave. (S10)

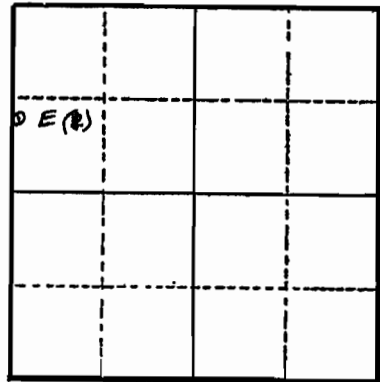
LOCATION OF WELL: Owner's No. #1

CITY AND STATE: Tigard, Oregon

SW 1/4 NW 1/4 Sec. 11 T. 2 S., R. 1 W., W.M.

Bearing and distance from section or subdivision

corner S. 1625 ft. & E. 30 ft.  
From N.W. cor. sec. 11



Altitude at well 409

TYPE OF WELL: drilled Date Constructed April 25, 27

Depth drilled 381 DEEPENED 4-2-66 Depth cased

Section 11

CASING RECORD:

12 inch

FINISH:

AQUIFERS:

WATER LEVEL:

185

PUMPING EQUIPMENT: Type Peerless Turbine H.P. 15  
Capacity 250 G.P.M.

WELL TESTS:

Drawdown 96 ft. after \_\_\_\_\_ hours 170 G.P.M.  
Drawdown 97 ft. after \_\_\_\_\_ hours 210 G.P.M.

USE OF WATER municipal Temp. \_\_\_\_\_ °F. 19  
SOURCE OF INFORMATION G.R. 616

DRILLER or DIGGER \_\_\_\_\_

ADDITIONAL DATA:

Log \_\_\_\_\_ Water Level Measurements \_\_\_\_\_ Chemical Analysis \_\_\_\_\_ Aquifer Test \_\_\_\_\_

REMARKS:

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2/IW-11E(1)

WELL #1  
November 18, 1947 Sounded

R. J. STRASSER DRILLING CO.

R 3, Box 594  
Portland 6, Oregon

Log of 12" well drilled for Tigard Water District, Completed April 25, 1947 by R. J. Strasser Drilling Company.

Surface	to	2 ft.	Top soil
2 ft.	"	11 "	Yellow clay
11 "	"	22 "	Hard pan with some sand
22 "	"	47 "	Silt and yellow clay
47 "	"	64 "	Soft lava rock
64 "	"	84 "	Gray and green lava rock
84 "	"	168 "	Black, gray, red rock medium hard
168 "	"	192 "	Black and red rock medium hard
192 "	"	202 "	Black hard rock
202 "	"	212 "	Red and black soft porous rock with some water
212 "	"	220 "	Hard black rock
220 "	"	230 "	Hard black rock
230 "	"	260 "	Gray and black medium hard rock
260 "	"	272 "	Gray porous rock with water
272 "	"	309 "	Hard black rock some crevices
309 "	"	315 "	Red rock not so hard
315 "	"	325 "	Yellow and gray soft rock showing water
325 "	"	345 "	Gray hard rock
345 "	"	370 "	Medium hard gray rock
270 "	"	381 "	Hard gray rock

Well cased with 12" pipe to a depth of 71 feet and a cement grout placed to prevent surface water from entering the well.

Static water level 168 feet from the surface.

Pump test showed	60 G.P.M.	with	20 feet	draw down.
" " "	120 "	" "	30 "	" "
" " "	170 "	" "	46 "	" "
" " "	210 "	" "	97 "	" "

Would recommend pump setting of 250 feet column, bowls and 35 feet of suction capacity 176 G.P.M. Your pumping level would be 240 feet which would be the most practicable level to pump from as the next 40 feet of draw down only adds 40 G.P.M. of water and all of your water would need to be pumped that extra depth.

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SEE DEEPENING 4-2-66

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TIGARD WATER DISTRICT

Washington County, Oregon

WELL TEST DATA

WELL NO. 2

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JAN 24 1964

STATE ENGINEER  
SALEM, OREGON

Diameter 12" Pump Pearless 50 HP  
Depth 453 ft. Bowl setting 350 ft.  
Cased 342 ft-10" dia.

Elden W. Carter  
Consulting Engineer

Test Date	Duration Min.	Rate gpm	Static Level - Ft.	Pumping Level-Ft.	Draw-down Ft.	Remarks
7/20/49	24 hr.	700	190	280	90	When drilled
10/11/58	8 min.	400	212	265	53	In service
3/8/61	30	400	260	295	35	" "
2/13/62	45	400	280	314	34	" "
7/30/62	30	400	285	285	-	" "
2/5/63	50	400	227	309	82	Out of service before test
6/29/63	45	400	229	336	107	In service
12/31/63	40	400	228	265	37	" "

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SALEM, OREGON

T 10802

ELDEN W. CARTER  
 CONSULTING CIVIL ENGINEER  
 PORTLAND TRUST BLDG.  
 818 S. W. WASHINGTON ST.  
 PORTLAND 4, OREGON

2/w-10E(1)

WASH

will #1

October 15, 1958

Board of Commissioners,  
 Tigard Water District,  
 6541 S.W. Commercial St.,  
 Tigard 23, Oregon.

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 OCT 15 1958

STATE ENGINEER  
 SALEM, OREGON

Gentlemen:

On October 11, 1958 tests were made on your three wells to determine, primarily, the present static water levels and to observe the drawdown and pumping levels if possible.

At the time of test, both Well No. 1 and No. 2 were in service and under automatic control. The pump in Well No. 1 was running just prior to the test and at No. 2 the pump had been off an undetermined length of time. Well No. 3 had not been in service for at least two weeks.

In each case the pumping level was observed after running the pump 5 to 6 minutes which, except for No. 1, probably did not give the level which might be expected after prolonged continuous operation. This is particularly true of Well No. 3.

A tabulation of the test data and comparative data from the original well tests are shown below.

	Oct. 11, 1958	When Drilled
<u>Well No. 1</u>		11-18-47
Static level (below surface)	214 ft.	188 ft.
Pumping level	266 ft.	234 ft.
Rate	( ? )	120 gpm
Drawdown	52 ft.	46 ft.
	* - Pump runs throttled - exact flow not known.	
<u>Well No. 2</u>		7-30-49
Static level	212 ft.	190 ft.
Pumping level	265 ft.	230 ft.
Rate	400 gpm	400 gpm
Drawdown	53 ft.	40 ft.
<u>Well No. 3</u>		2-11-58
Static level	210 ft.	215 ft.
Pumping level	257 ft.	243 ft.
Rate	550 gpm	550 gpm
Drawdown	47 ft.	128 ft.

-11E(1)

T. 10802

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WATER RESOURCES DEPT.  
 SALEM, OREGON

Very truly yours,  
 ELDEN W. CARTER

Elden W. Carter, Engineer  
 Tigard Water District

**ELDEN W. CARTER**  
 CONSULTING CIVIL ENGINEER  
 OREGON BANK BLDG.  
 319 S. W. WASHINGTON ST.  
 PORTLAND 4, OREGON

March 17, 1961

Board of Commissioners  
 Tigard Water District  
 8841 S.W. Commercial St.  
 Tigard 22, Oregon

Gentlemen:

Pumping tests were run on the district's three wells on March 8, 1961 to determine the present static water levels, draw down, and pumping levels.

The draw down was measured after pumping 30 minutes on each well.

A tabulation of the test data and comparative data from previous tests are shown below.

	<u>3/8/61</u>	<u>10/11/58</u>	<u>When drilled 11/18/47</u>
<u>Well No. 1</u>			
Static level	223 ft.	214 ft.	188 ft.
Pumping level	275 ft.	266 ft.	234 ft.
Rate (throttled - est.)	(160 gpm)	( ? )	170 gpm
Draw down	52 ft.	52 ft.	46 ft.
<u>Well No. 2</u>			<u>7/30/49</u>
Static level	260 ft.	212 ft.	190 ft.
Pumping level	285 ft.	265 ft.	280 ft.
Rate	400 gpm	400 gpm	400 gpm
Draw down	25 ft.	53 ft.	90 ft.
<u>Well No. 3</u>			<u>2/11/58</u>
Static level	293 ft.	210 ft.	215 ft.
Pumping level	360 ft.	257 ft.	243 ft.
Rate	350 gpm	350 gpm	350 gpm
Draw down	67 ft.	47 ft.	128 ft.

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WATER RESOURCES DEPT  
 SALEM, OREGON

T 10882

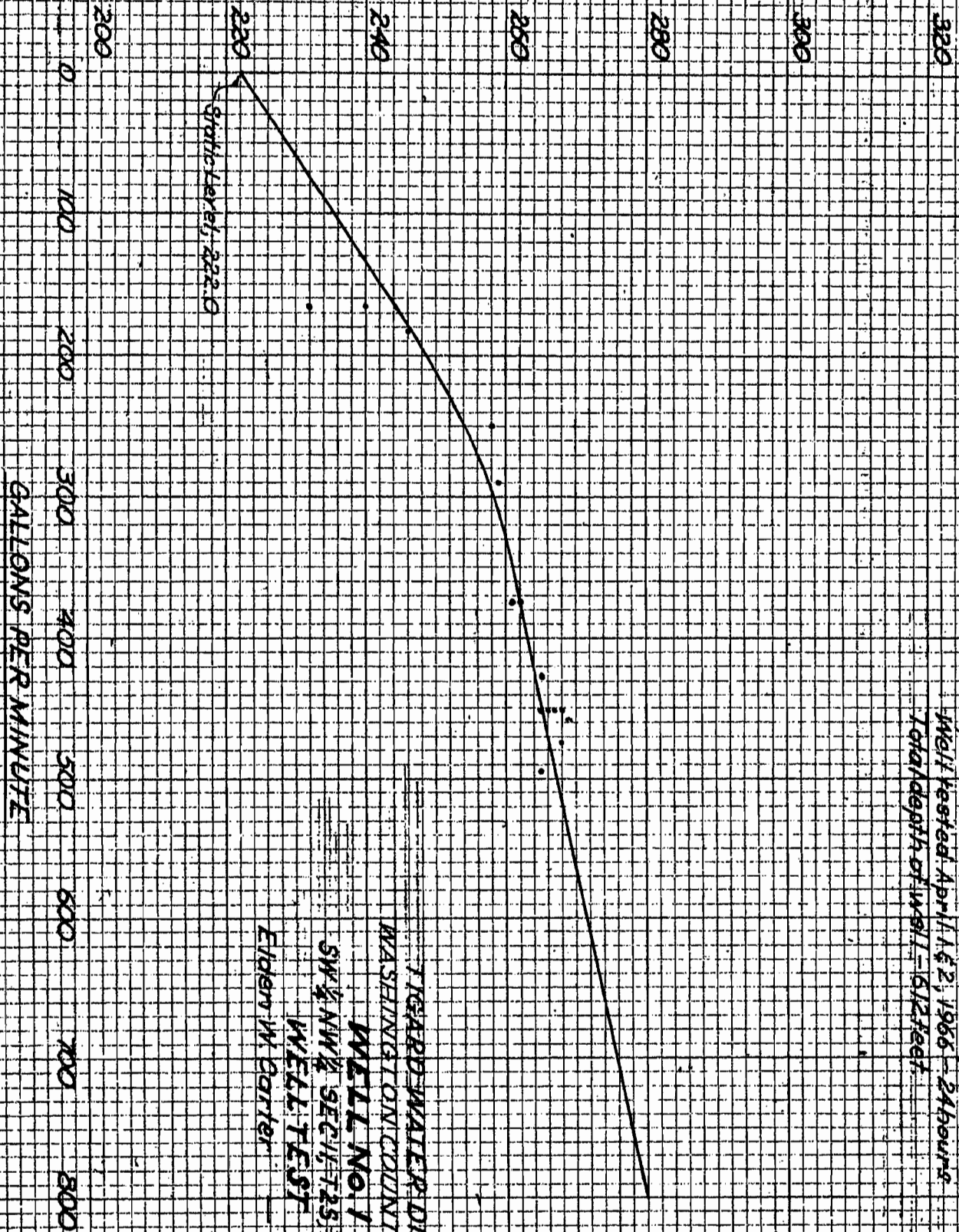
Very truly yours,

ELDEN W. CARTER

Elden W. Carter, Engineer  
 Tigard Water District

cc- State Engineer

PUMPING LEVEL - FT



NOTE:  
Existing 12" well abandoned and tested  
by Hobson Brothers Drilling Co.  
Well tested April 1 & 2, 1966 - 24 hours  
Total depth of well - 612 feet

TERRARD WATER DISTRICT  
WASHINGTON COUNTY, OREGON  
**WELL NO. 1**  
SW 1/4 NW 1/4 SEC 21, T2S, R1W, W4N.  
**WELL TEST**  
Evidem W. Carter  
Engineer

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WATER RESOURCES DEPT  
STATE OF OREGON

1 10002



NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the  
STATE ENGINEER, SALEM, OREGON #7310  
within 30 days from the date  
of well completion.

**WASH**  
**011593** WATER WELL REPORT

27, 1966

STATE OF OREGON  
(Please type or print) *Deepening*

State Well No. *2/w-11 E(1)*  
State Permit No. \_\_\_\_\_

(1) OWNER: ~~XXXXXXXXXXXX~~  
Name **Tigard Water District**  
Address **8841 S.W. COMMERCIAL St.**  
**Tigard Oregon**  
(2) LOCATION OF WELL: **Near S.W. 103rd. Ave.**  
**and Highway U.S. 99W**  
County **Washington** Driller's well number \_\_\_\_\_  
S.W.  $\frac{1}{4}$  N.W.  $\frac{1}{4}$  Section **11** T. **2S** R. **1W** W.M.  
Bearing and distance from section or subdivision corner \_\_\_\_\_

*Well #1*

(3) TYPE OF WORK (check):  
New Well  Deepening  Reconditioning  Abandon   
Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check): (5) TYPE OF WELL:  
Domestic  Industrial  Municipal  Rotary  Driven   
Irrigation  Test Well  Other  Cable  Jetted   
Dug  Bored

(6) CASING INSTALLED: Threaded  Welded   
\_\_\_\_\_ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
\_\_\_\_\_ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
\_\_\_\_\_ " 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.  
\_\_\_\_\_ 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 \_\_\_\_\_  
Depth of seal \_\_\_\_\_ ft. 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. **222** ft. below land surface Date **4/1/66**  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

(11) WELL TESTS: Drawdown is amount water level is lowered below static level **Bottner Drilling Co.**  
Was a pump test made?  Yes  No If yes, by whom? **Drilling Co.**  
Yield: **165** gal./min. with **17** ft. drawdown after \_\_\_\_\_ hrs.  
" **374** " " **40** " " "  
" **452** " " **46** " " "  
~~XXXXX~~ # **495** gal./min. with **43** ft. drawdown after **12** hrs.

Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water **53** Was a chemical analysis made?  Yes  No

(12) WELL LOG: Diameter of well below casing **12** "  
Depth drilled **229** ft. Depth of completed well **612** 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
Rock, black	381	410
Rock, red	410	426
Clay, brown	426	449
Rock, black	449	491
Clay, w/ embedded rock	491	496
Rock, red	496	500
Rock, black	500	525
Cuttings washed away,		
water bearing	525	532
Rock, black hard	532	560
Rock, black ( crevis )	560	562
Rock, brownish red, soft	562	579
Rock, red soft, coarse		
water bearing	579	597
Rock, black, mdm hard	597	612

Note :  
To Straighten well, back filled with boulders & gravel from 383 ft. to 368 ft, redrilled and back filled the 2nd. time.  
\* After pumping 12 hrs. gained 3 ft.

Work started **Jan. 27** 19 **66** Completed **April 2** 19 **66**  
Date well drilling machine moved off of well **April 6** 19 **66**

(13) PUMP: **T 10802**  
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 **HAAKON BOTTNER DRILLING COMPANY**  
(Person, firm or corporation) (Type or print)  
Address **3424 S.E. 174 Street Portland Ore.**  
Drilling Machine Operator's License No. **380 & 246**  
[Signed] *H. Bottner*  
(Water Well Contractor)  
Contractor's License No. **109** Date **April 9**, 19 **66**

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STATE OF OREGON

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DEC 13 2001

**WATER SUPPLY WELL REPORT**

(as required by ORS 537.765)

WATER RESOURCES DEPT

Instructions for completing this report are on the back page of this form.

WELL I.D. # L 48901  
START CARD # 141227

(1) LAND OWNER  
Name City of Tigard Well Number \_\_\_\_\_  
Address 13125 S.W. HALL BLVD.  
City TIGARD State ORE. Zip 97223

(2) TYPE OF WORK  
 New Well  Deepening  Alteration (repair/recondition)  Abandonment

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other \_\_\_\_\_

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other Municipal

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well 600 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
12"	0	600'	CEMENT	0'	300'	168 SACKS or 8 yards

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:

Casing/Liner	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <u>B</u>	<u>12"</u>	<u>0'</u>	<u>300'</u>	<u>322"</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used  Inside  Outside  None  
Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS: NONE

From	To	Slot size	Number	Tele/pipe diameter	Case	Liner
					<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Time
<u>1.5 gpm</u>	<u>0</u>		<u>1 hr.</u>

Temperature of water 54° Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done?  Yes 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 WASHINGTON Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 25 N or S Range 1W E or W. WM.  
Section 11 SW 1/4 NW 1/4  
Tax Lot 2600 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 10490 S.W. CANTERBURY LANE, TIGARD

(10) STATIC WATER LEVEL:  
255 ft. below land surface. Date Nov. 28, 2001  
Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found \_\_\_\_\_

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:  
Ground Elevation \_\_\_\_\_

Material	From	To	SWL
<b>REPAIR-RECONDITION PROCEDURE:</b>			
- Pour clean, washed, chlorinated 3/8 pea gravel from 600'-300'			
- Set in 300' of 8" x 322" wall casing with centering guides			
- insert 1" tremie pipe to 295', then pump in cement mixed at a ratio of 5 to 5.2 gallons of water per 94 pound sack of cement; total of 8 yards or 168 sacks used to fill annulus from 300' to surface			
- After approximately 36-40 hours, the gravel removal was started, then completely bailed out to 600'			
- 12"x70' original casing: Perf. w/ Mill's Knife - 6/18 - 2' tall			
LOG OF ORIGINAL well: WASH 011594			
LOG OF DEEPENING of original well: WASH 011593			

Date started November 8, 2001 Completed November 28, 2001

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number \_\_\_\_\_  
Signed \_\_\_\_\_ 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 water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 635  
Signed Michael Waldoop Date December 13, 2001

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

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SALEM OREGON

T 10802

WASH 58003  
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STATE OF OREGON  
WATER SUPPLY WELL REPORT  
(as required by ORS 537.765)  
WATER RESOURCES DEPT.  
Instructions for completing this report are on the back page of this form.

DEC 12 2001

Wash  
58003

WELL I.D. # L. 48800  
START CARD # 141224

(1) OWNER: Well Number \_\_\_\_\_  
Name CITY OF TIGARD  
Address 13125 S.W. HALL BLVD.  
City TIGARD State ORE. Zip 97223

(2) TYPE OF WORK  
 New Well  Deepening  Alteration (repair/recondition)  Abandonment

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other Municipal

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well 606 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds
16"	0	300'		0'	300'	189 SACKS or 9 YARDS
12"	300'	606'				

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:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 12"	0	300'	3/8"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS: NONE

From	To	Slot size	Number	Diameter	Tube/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
800 GPM	79'		26 HRS.

Temperature of water 54° Depth Artesian Flow Found \_\_\_\_\_

Was a water analysis done?  Yes 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 WASHINGTON Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 2S N or S Range 1W E or W. WM.  
Section 11 SW 1/4 NW 1/4  
Tax Lot 2600 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 10490 CANTERBURY LANE SW, TIGARD

(10) STATIC WATER LEVEL:  
246 ft. below land surface. Date NOV. 29, 2001  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
Depth at which water was first found 323'

From	To	Estimated Flow Rate	SWL
437'	463'	150 GPM	256'
323'	350'	50 GPM	266'
491-512/518-528'		100 GPM	256'
564'	582'	150 GPM	244'
594'	599'	150 GPM	256'

(12) WELL LOG:  
Ground Elevation \_\_\_\_\_

Material	From	To	SWL
Asphalt	0'	1'	
Brown, sandy clay	1'	47'	
Decomposed basalt, brown	47'	59'	
Weathered basalt, brown	59'	142'	
Black basalt, broken	142'	175'	
Black basalt	175'	190'	
Black basalt, broken	190'	205'	
Black basalt	205'	218'	
Black + brown broken basalt	218'	265'	
Gray basalt	265'	295'	
Brown, broken basalt	295'	310'	
Weathered basalt multi-colored	310'	328'	256'
Brown + black basalt	328'	349'	256'
Gray basalt	349'	405'	
Weathered basalt - brown	405'	410'	
Gray basalt - hard	410'	437'	
Weathered basalt - multi-colored	437'	463'	256'
Gray basalt, hard	463'	491'	
Weathered basalt, brown - black-iron colored	491'	512'	256'

Date started SEPT. 26, 2001 Completed November 8, 2001

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed \_\_\_\_\_ 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 water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed Michael Waldrop WWC Number 033 Date Dec. 12, 2001

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10802

WASH 58003  
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DEC 12 2001

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

WATER RESOURCES DEPT  
SALEM, OREGON

WELL I.D. # L 48800  
START CARD # 141224

Instructions for completing this report are on the reverse side of this form.

(1) **LAND OWNER**  
Name C/O TIGARD Well Number PAGE 2  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

(2) **TYPE OF WORK**  
 New Well  Deepening  Alteration (repair/recondition)  Abandonment

(3) **DRILL METHOD:**  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other \_\_\_\_\_

(4) **PROPOSED USE:**  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other \_\_\_\_\_

(5) **BORE HOLE CONSTRUCTION:**  
Special Construction approval  Yes  No Depth of Completed Well \_\_\_\_\_ ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	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:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used  Inside  Outside  None  
Final location of shoe(s) \_\_\_\_\_

(7) **PERFORATIONS/SCREENS:**

Perforations Method \_\_\_\_\_  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) **WELL TESTS: Minimum testing time is 1 hour**

Pump  Bailer  Air  Flowing  Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.

Temperature of water \_\_\_\_\_ Depth Artesian Flow Found \_\_\_\_\_  
Was a water analysis done?  Yes 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 \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township \_\_\_\_\_ N or S Range \_\_\_\_\_ E or W. WM. \_\_\_\_\_  
Section \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_  
Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) \_\_\_\_\_

(10) **STATIC WATER LEVEL:**  
\_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

(11) **WATER BEARING ZONES:**

Depth at which water was first found \_\_\_\_\_

From	To	Estimated Flow Rate	SWL
			256'
			256'
			256'

(12) **WELL LOG:**

Ground Elevation \_\_\_\_\_

Material	From	To	SWL
Gray basalt, hard	512'	518'	
Gray + brown basalt, broken	518'	528'	256'
Gray basalt, hard	528'	561'	
Gray basalt, broken	561'	564'	
Weathered basalt, multi-colored	564'	582'	256'
Gray basalt, hard	582'	594'	
Basalt, broken, multi-colored	594'	599'	256'
Gray basalt, very hard	599'	606'	256'
			256'
			256'

Date started \_\_\_\_\_ Completed \_\_\_\_\_  
**(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.  
WWC Number \_\_\_\_\_  
Signed \_\_\_\_\_ 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 water supply well construction standards. This report is true to the best of my knowledge and belief.  
WWC Number 633  
Signed Michael Waldrop Date Dec 12, 01

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10802

STATE ENGINEER  
Salem, Oregon

WASH  
011592

OBSERVATION WELL  
Well Record

STATE WELL NO. 2111-1020  
COUNTY Washington  
APPLICATION NO. 67-615

OWNER: Tigard Water District

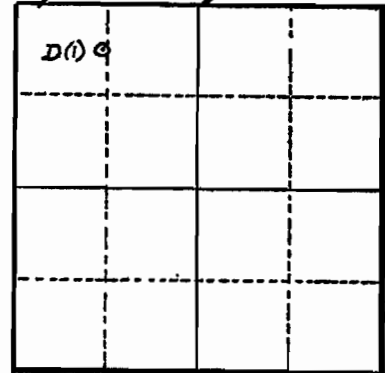
MAILING % C.E. Janoe Chairman  
ADDRESS: 8900 SW Burnham Ave.

LOCATION OF WELL: Owner's No. #2

CITY AND STATE: Tigard, Oregon

NW 1/4 NW 1/4 Sec. 10 T. 2 S., R. 1 W., W.M.

Bearing and distance from section or subdivision corner S. 610 ft. & E. 1270 ft.  
From N.W. cor. sec. 10



Section 10

Altitude at well 375 ft.

TYPE OF WELL: drilled Date Constructed July 30 '49

Depth drilled 453 Depth cased 342

CASING RECORD:  
12 inch

FINISH:

AQUIFERS:

WATER LEVEL:

190 feet

PUMPING EQUIPMENT: Type Peerless Turbine H.P. 15  
Capacity 500+ G.P.M.

WELL TESTS:

Drawdown 72 ft. after \_\_\_\_\_ hours \_\_\_\_\_ 325 G.P.M.  
Drawdown 90 ft. after \_\_\_\_\_ hours \_\_\_\_\_ 400 G.P.M.

USE OF WATER municipal Temp. \_\_\_\_\_ °F. \_\_\_\_\_, 19\_\_\_\_

SOURCE OF INFORMATION 67-615

DRILLER or DIGGER \_\_\_\_\_

ADDITIONAL DATA:  
Log \_\_\_\_\_ Water Level Measurements \_\_\_\_\_ Chemical Analysis \_\_\_\_\_ Aquifer Test \_\_\_\_\_

REMARKS:

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10802

WELL # 2

R. J. STRASSER DRILLING COMPANY  
 8110 S.E. Sunset Lane  
 Portland 6, Oregon

Log of well # 2 for the Tigard Water District 12 inch well cased with 10 inch to 342 feet deep. Completed 7/30/49.

Surface	to	Ft	Description
	2		Top soil
2 ft	"	29 "	Yellow and red clay
29 "	"	47 "	Decomposed rock
47 "	"	83 "	Hard gray rock
83 "	"	97 "	Brownish red medium rock
97 "	"	192 "	Hard gray rock
192 "	"	201 "	Soft brownish red rock with around 100 G.P.M.
209 "	"	209 "	Hard gray rock
209 "	"	224 "	Porous brown rock with a little water
224 "	"	265 "	Gray and brown rock
265 "	"	274 "	Porous brown rock a little water
274 "	"	319 "	Hard gray rock
			Well was tested at 342 feet and furnished 220 G.P.M. a draw down of 140 feet.
335 "	"	362 "	Hard gray rock
362 "	"	368 "	Brown porous rock
368 "	"	395 "	Hard clay
395 "	"	400 "	Soft red rock should have some water
400 "	"	438 "	Gray rock
438 "	"	447 "	Very soft yellow rock with water
447 "	"	453 "	Gray rock

Static water level 190 feet from the surface.

Pump test showed 325 G.P.M. with 72 feet draw down  
 400 " " 90 " " "

A cement seal was made around the casing at a depth of 60 to 70 feet to prevent any water from entering the well above the 70 ft. level.

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WATER RESOURCES DEPT  
 SALEM, OREGON

T 16802

2/1W-10 D(1)  
Wash. Co

ELDEN W. CARTER  
CONSULTING CIVIL ENGINEER  
PORTLAND TRUST BLDG.  
219 S. W. WASHINGTON ST.  
PORTLAND 4, OREGON

Well # 2

October 13, 1958

Board of Commissioners,  
Tigard Water District,  
2841 S.W. Commercial St.,  
Tigard 23, Oregon.

RECEIVED  
OCT 15 1958  
STATE ENGINEER  
SALEM, OREGON

Gentlemen:

On October 11, 1958 tests were made on your three wells to determine, primarily, the present static water levels and to observe the drawdown and pumping levels if possible.

At the time of test, both Well No. 1 and No. 2 were in service and under automatic control. The pump in Well No. 1 was running just prior to the test and at No. 2 the pump had been off an undetermined length of time. Well No. 3 had not been in service for at least two weeks.

In each case the pumping level was observed after running the pump 5 to 8 minutes which, except for No. 1, probably did not give the level which might be expected after prolonged continuous operation. This is particularly true of Well No. 3.

A tabulation of the test data and comparative data from the original well tests are shown below.

Well No. 1	Oct. 11, 1958	Then Drilled 11-18-49
Static level (below surface)	214 ft.	188 ft.
Pumping level	266 ft.	234 ft.
Rate	( ? )	170 gpm
Draw down	52 ft.	46 ft.

\* - Pump runs throttled - exact flow not known.

Well No. 2	Oct. 11, 1958	Then Drilled 7-30-49
Static level	212 ft.	190 ft.
Pumping level	265 ft.	280 ft.
Rate	400 gpm	400 gpm
Draw down	53 ft.	90 ft.

Well No. 3	Oct. 11, 1958	Then Drilled 2-11-58
Static level	210 ft.	215 ft.
Pumping level	257 ft.	243 ft.
Rate	350 gpm	350 gpm
Draw down	47 ft.	128 ft.

10 D(1)

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WATER RESOURCES DEPT.  
SALEM, OREGON

Very truly yours,  
ELDEN W. CARTER

Elden W. Carter, Engineer  
Tigard Water District

**ELDEN W. CARTER**  
CONSULTING CIVIL ENGINEER  
OREGON BANK BLDG.  
319 S W. WASHINGTON ST.  
PORTLAND 4 OREGON

March 17, 1961

Board of Commissioners  
Tigard Water District  
8841 S.W. Commercial St.  
Tigard 22, Oregon

Gentlemen:

Pumping tests were run on the district's three wells on March 8, 1961 to determine the present static water level, draw down, and pumping levels.

The draw down was measured after pumping 30 minutes on each well.

A tabulation of the test data and comparative data from previous tests are shown below.

	<u>3/8/61</u>	<u>10/11/58</u>	<u>When drilled 11/18/47</u>
<u>Well No. 1</u>			
Static level	223 ft.	214 ft.	188 ft.
Pumping level	275 ft.	266 ft.	234 ft.
Rate (throttled - est.)	(150 gpm)	( ? )	170 gpm
Draw down	52 ft.	52 ft.	46 ft.
<u>Well No. 2</u>			<u>7/30/49</u>
Static level	250 ft.	212 ft.	190 ft.
Pumping level	285 ft.	266 ft.	280 ft.
Rate	400 gpm	400 gpm	400 gpm
Draw down	35 ft.	53 ft.	90 ft.
<u>Well No. 3</u>			<u>2/11/58</u>
Static level	293 ft.	210 ft.	215 ft.
Pumping level	360 ft.	257 ft.	243 ft.
Rate	350 gpm	350 gpm	360 gpm
Draw down	67 ft.	47 ft.	128 ft.

Very truly yours,

ELDEN W. CARTER

Elden W. Carter, Engineer  
Tigard Water District

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MAR 6 4 2009

WATER RESOURCES DEPT  
SALEM, OREGON

Co- State Engineer

T 10802







Geo-Tech Explorations  
 A Division of Boart Longyear  
 19700 SW Teton Ave  
 Tualatin, OR 97062  
 503-692-6400  
 503-692-4759 (fax)

Start Card: 161746  
 Well Label: L68044  
 Boring #: ASR COT-2R

**Water Bearing Zones:**

From	To	Estimated Flow Rate	SWL
554	574	↓	307
679	699	↓	307
779	819	↓	307
854	894	↓	307
964	1004	12.2 gpm / ft	307

**Soil Profile Continued from Log:**

Material	From	To	SWL
Gravel base	0	2'	
Brown silt	2'	12'	
Brown silt w/ weathered basalt	12'	15'	
Brown silt - soft	15'	18'	
Brown silt w/ weathered basalt	18'	20'	
Weathered basalt	20'	38'	
Weathered basalt - broken	38'	65'	
Basalt (med) - gray	65'	91'	
Basalt (soft) - red	91'	103'	
Basalt (med) - weathered	103'	139'	
Basalt w/ seams of brown silt	139'	238'	
Basalt conglomerate	238'	279'	
Basalt - gray w/ seams	279'	380'	307
Weathered broken basalt	380'	420'	307
Basalt (med / hard) - gray	420'	470'	307
Basalt (soft) - gray & red	470'	481'	307
Weathered basalt (med) - fractured	481'	497'	307
Basalt - gray	497'	515'	307
Basalt (slightly vesicular) - dark gray	515'	532'	307
Basalt - weathered / broken	532'	537'	307
Basalt (hard) - gray	537'	542'	307
Basalt (med / hard) - gray	542'	549'	307

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 SALEM, OREGON

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WATER RESOURCES DEPT  
 SALEM, OREGON

T 10802

Basalt (hard) – light & dark gray	549'	631'	307
Basalt – brown, green & gray	631'	635'	307
Basalt – gray	635'	640'	307
Basalt (slightly vesicular) – brown & gray	640'	648'	307
Basalt (hard) – gray / some pinholes	648'	661'	307
Weathered basalt - brown, green & gray	661'	678'	307
Basalt (fractured) - brown, green & gray	678'	680'	307
Vesicular basalt – brown to red	680'	688'	307
Basalt – gray to brown	688'	711'	307
Basalt – gray w/ dark gray seams	711'	718'	307
Basalt – brown to gray	718'	724'	307
Basalt (fractured) – brown to gray	724'	730'	307
Basalt – gray w/ dark gray seams	730'	736'	307
Basalt (fractured) – gray to brown & green	736'	786'	307
Basalt (med) – gray to red	786'	788'	307
Basalt – gray to brown & green	788'	795'	307
Fractured basalt (hard) – gray	795'	810'	307
Basalt (very fractured) – gray w/ brown & green	810'	819'	307
Basalt (slightly fractured) – gray w/ brown	819'	838'	307
Basalt (fractured) – brown to gray	838'	843'	307
Basalt (fractured) – gray to brown	843'	852'	307
Basalt (hard) – gray	852'	859'	307
Basalt (fractured) – gray to brown	859'	870'	307
Vesicular basalt – brown to gray	870'	875'	307
Basalt (med / hard) – gray; slightly vesicular	875'	884'	307
Basalt (fractured / hard) – brown to gray; slightly vesicular	884'	890'	307
Basalt (fractured / med) – brown to gray	890'	939'	307
Basalt (med / hard) – gray	939'	943'	307
Basalt (med / hard) – gray & brown, slightly fractured	943'	1012'	307

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WATER RESOURCES DEPT  
SALEM, OREGON

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WATER RESOURCES DEPT  
SALEM, OREGON

1 61622

WASH 61622

0 feet

50 feet

100 feet

150 feet

200 feet

250 feet

300 feet

350 feet

400 feet

450 feet

500 feet  
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**As-Built for COT-2R**

Start Card: 161746

Label: L68044

24" boring from 0 - 32'

20" boring from 32-343'

16" boring from 343' - 1012'

24" Backfilled w/ Bentonite Chips

backfilled cement  
grout 0-343'

20" permanent casing set +1 to 343'

Static Water: 307'

16" Mild Steel blank (liner)  
+1.5' to 554.7'

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OCT 04 2004

WATER RESOURCES DEPT  
SALEM, OREGON

Page 1 of 2

T 10802

MAR 04 2009

WATER RESOURCES DEPT  
SALEM, OREGON

500 feet

Mild Steel Blank (liner)  
+1.5' to 554.7'

**As-Built for COT-2R**

Start Card: 161746

Label: L68044

550 feet

Stainless Steel Screen (liner)  
554.7' to 574.7'

600 feet

Mild Steel Blank (liner)  
574.7' to 679.7'

650 feet

Stainless Steel Screen (liner)  
679.7' to 699.7'

700 feet

Mild Steel Blank (liner)  
699.7' to 779.7'

750 feet

Stainless Steel Screen (liner)  
779.7' to 819.7'

800 feet

Mild Steel Blank (liner)  
819.7' - 854.7'

850 feet

Stainless Steel Screen (liner)  
854.7' to 894.7'

900 feet

Mild Steel Blank (liner)  
894.7' - 964.7'

950 feet

Stainless Steel Screen (liner)  
964.7' - 1004.68'

1000 feet

Mild Steel  
Blank & Shoe  
1004.7—1009.5'

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WATER RESOURCES DEPT  
SALEM, OREGON

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OCT 04 2004

WATER RESOU...  
SALEM, OREGON

# WASH 66115

STATE OF OREGON  
 WATER SUPPLY WELL REPORT  
 (as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 89515  
 START CARD # 177457

**(1) LAND OWNER** Owner Well I.D. L89515

First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Company City of Tigard  
 Address 13125 SW Hall Blvd  
 City Tigard State OR Zip 97223

**(2) TYPE OF WORK**  New Well  Deepening  Conversion  
 Alteration (repair/recondition)  Abandonment

**(3) DRILL METHOD**  
 Rotary Air  Rotary Mud  Cable  Auger  Cable Mud  
 Reverse Rotary  Other \_\_\_\_\_

**(4) PROPOSED USE**  Domestic  Irrigation  Community  
 Industrial/ Commercial  Livestock  Dewatering  
 Thermal  Injection  Other \_\_\_\_\_

**(5) BORE HOLE CONSTRUCTION** Special Standard  (Attach copy)  
 Depth of Completed Well 1,100 ft.

BORE HOLE			SEAL			sacks/	
Dia	From	To	Material	From	To	Amt	lbs
24	0	420	Cement	0	417	272	S
19	420	1,100					

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Filter pack from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_ Size \_\_\_\_\_  
 Explosives used:  Yes Type \_\_\_\_\_ Amount \_\_\_\_\_

**(6) CASING/LINER**

Casing	Liner	Dia	+	From	To	Gauge	Stl	Platc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/>	.5	417	.375	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16	<input checked="" type="checkbox"/>	3	575	.375	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Shoe  Inside  Outside  Other Location of shoe(s) 420  
 Temp casing  Yes Dia \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

**(7) PERFORATIONS/SCREENS**  
 Perforations Method \_\_\_\_\_  
 Screens Type V-Wrap Material Stainless Steel

Perf/S	Casing/Screen	Liner	Dia	From	To	Scr/slot width	Slot length	# of slots	Tele/pipe size
Screen	Casing	16	575	605	.05				
Screen	Liner	16	605	655	.05				
Screen	Casing	16	655	675	.05				
Screen	Liner	16	675	755	.05				
Screen	Casing	16	755	765	.05				

**(8) WELL TESTS: Minimum testing time is 1 hour**  
 Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
1,500	173.8	620	120

Temperature 53 °F Lab analysis  Yes By \_\_\_\_\_  
 Water quality concerns?  Yes (describe below)

From	To	Description	Amount	Units

**(9) LOCATION OF WELL (legal description)**

County WASHING. Twp 2 S N/S Range 1 W E/W WM  
 Sec 9 SW 1/4 of the NW 1/4 Tax Lot 2500  
 Tax Map Number \_\_\_\_\_ Lot \_\_\_\_\_  
 Lat \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
 Long \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
 Street address of well  Nearest address

13001 SW Bull Mountain Rd, Tigard, OR 97223

**(10) STATIC WATER LEVEL** Date \_\_\_\_\_ SWL(psi) + SWL(ft)

Existing Well / Prodeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	08-12-2007		348.7

Flowing Artesian?  Dry Hole?

**WATER BEARING ZONES** Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
08-12-2007	370	400			
08-12-2007	436	460			
08-12-2007	480	490			
08-12-2007	510	535			
08-12-2007	575	605			

**(11) WELL LOG** Ground Elevation \_\_\_\_\_

Material	From	To
Soil	0	1
Clay Soft Brown	1	16
Weathered Rock	16	21
Brown with Black Basalt	21	190
Brown Basalt	190	210
Brown with Black Basalt	210	305
Black Basalt - 3.5 min per ft	305	350
Black with Brown Basalt	350	440
Basalt Gray Brown Red Soft	440	455
Basalt Gray & Brown Hard	455	473
Basalt Brown & Gray Soft	473	490
Basalt Gray & Brown Med	490	515
Basalt Brown & Brown Soft	515	530
Basalt Gray & Brown Hard	530	550
Basalt Gray Hard	550	580
Basalt Gray & Brow Broken	580	635
Basalt Gray Hard	635	715
Basalt Gray & Brown Broken	715	740
Basalt Gray Broken	740	775

Date Started 04-27-2007 Completed 09-17-2007

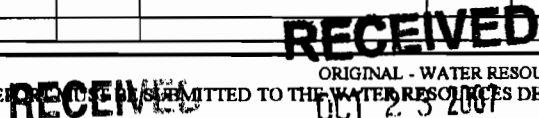
(unbonded) Water Well Constructor Certification  
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Licensc Number 1530 Date 10-08-2007  
 Password : (if filing electronically) \_\_\_\_\_  
 Signed Steve V. Hubbard

(bonded) Water Well Constructor Certification  
 I accept responsibility for the construction, deepening, 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 water supply well construction standards. This report is true to the best of my knowledge and belief.

Licensc Number 1523 Date 10-08-2007  
 Password : (if filing electronically) \_\_\_\_\_  
 Signed \_\_\_\_\_  
 Contact Info (optional) \_\_\_\_\_

ORIGINAL - WATER RESOURCES DEPARTMENT  
 THIS REPORT IS TO BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK



MAR 04 2008 WATER RESOURCES DEPT SALEM OREGON

WATER RESOURCES DEPT SALEM, OREGON

