

Well 2	WASH 11592
ASR 1	WASH 58003
ASR 2	WASH 61622
ASR 3	WASH 66115

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10803

**Attachment 3**  
**Well Logs**

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Application for a Groundwater Registration Modification – GR 615

STATE ENGINEER  
Salem, Oregon

WASH  
011592

OBSERVATION WELL  
Well Record

STATE WELL NO. 21W-1020  
COUNTY Washington  
APPLICATION NO. 67-65

OWNER: Tigard Water District

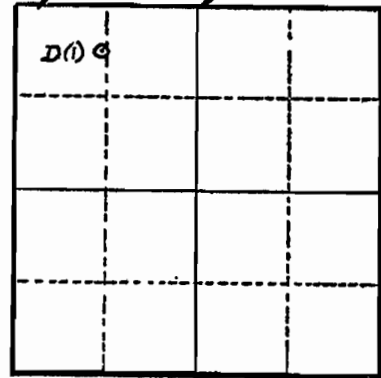
MAILING ADDRESS: C.E. Janoe Chairman - 8900 SW Burnham Ave.

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 975 ft.

TYPE OF WELL: drilled Date Constructed July 30 '49

Depth drilled 459 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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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 ft	"	29 "	Top soil
29 "	"	47 "	Yellow and red clay
47 "	"	83 "	Decomposed rock
83 "	"	97 "	Hard gray rock
97 "	"	192 "	Brownish red medium rock
192 "	"	201 "	Hard gray rock
209 "	"	209 "	Soft brownish red rock with around 100 G.P.M.
209 "	"	224 "	Hard gray rock
224 "	"	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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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 15, 1958

Board of Commissioners,  
Tigard Water District,  
2841 S.W. Commercial St.,  
Tigard 25, 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 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.

	Oct. 11, 1958	Then Drilled
Well No. 1		11-18-47
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.

10 D(1)

Well No. 2		7-30-49
Static level	212 ft.	190 ft.
Pumping level	268 ft.	280 ft.
Rate	400 gpm	400 gpm
Draw down	56 ft.	90 ft.

Well No. 3		2-11-58
Static level	210 ft.	215 ft.
Pumping level	257 ft.	343 ft.
Rate	550 gpm	550 gpm
Draw down	47 ft.	128 ft.

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Water Resources Division  
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 - cont.)	(150 gpm)	( ? )	170 gpm
Draw down	52 ft.	52 ft.	46 ft.
<u>Well No. 2</u>			
Static level	250 ft.	212 ft.	<u>7/30/49</u> 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>			
Static level	293 ft.	210 ft.	<u>2/11/58</u> 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.

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WATER RESOURCES DEPT  
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✓ co- State Engineer

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Very truly yours,

ELDEN W. CARTER

Elden W. Carter, Engineer  
Tigard Water District

WASH 58003  
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STATE OF OREGON  
WATER SUPPLY WELL REPORT  
(as required by ORS 537.765)

DEC 12 2001

WATER RESOURCES DEPT.

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

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'	.375	<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"/>

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailor  Air  Flowing  
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 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 CANTERBURY LANE SW, TIGARD

(10) STATIC WATER LEVEL:  
256 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'
504'	582'	150 GPM	256'
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-multicolored	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-multicolored	437'	463'	256'
Gray basalt, hard	463'	491'	
Weathered basalt, brown			
black-tan 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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SALEM, OREGON

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WASH 58003  
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STATE OF OREGON  
WATER SUPPLY WELL REPORT  
(as required by ORS 537.765)

DEC 12 2001

WATER RESOURCES DEPT  
SALEM OFFICE

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

Wash  
58003

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

(1) LAND OWNER  
Name E/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

Diameter	From	To	Material	From	To	Sacks or pounds

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

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'

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.  
WVC 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.  
WVC Number 633  
Signed Michael Waldrop Date Dec 12, 01

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MAR 04 2002

WATER RESOURCES DEP  
SALEM, OREGON

T 10803

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

(WELL I.D.)# L 68044

(START CARD) # 161746

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

(1) OWNER: Well Number COT-2R  
 Name City of Tigard  
 Address 13125 SW Hall Blvd.  
 City Tigard State OR Zip 97223

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

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

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

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval  Yes  No Depth of Completed Well 1012 ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
24"	0	32'	Bentonite	0	32'	18 sacks
20"	32'	343'	Cement	0	351.7	17 yards
16"	343'	1012'				

How was seal placed: Method  A  B  C  D  E  
 Other poured chips  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from 351.7 ft. to 716 ft. Size of gravel pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	<u>SEE AS BUILT</u>	<u>SEE AS BUILT</u>	<u>SEE AS BUILT</u>	<u>SEE AS BUILT</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"/>

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

(7) PERFORATIONS/SCREENS:

Perforations		Method <u>wire wrap</u>		Screens		Type <u>304</u>		Material <u>S.S.</u>	
From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner		
554.7'	574.7'	.050		16"		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
679.7'	699.7'	.050		16"		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
779.7'	819.7'	.050		16"		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
854.7'	894.7'	.050		16"		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
964.7'	1004.68'	.050		16"		<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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

Yield gal/min	Drawdown	Drill stem at	Time
428 gpm	28'	1010'	1 hr.

Pump  Bailer  Air  Flowing Artesian

Temperature of water 57 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: \_\_\_\_\_

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(9) LOCATION OF WELL by legal description:  
 County Washington Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 2 S Range 1 W WM.  
 Section 10 SW 1/4 MW 1/4  
 Tax Lot 900 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) NE corner of SW 125th & SW Bull Mountain Rd.

(10) STATIC WATER LEVEL:  
308 ft. below land surface. Date 8/02/04  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found 312'

From	To	Estimated Flow Rate	SWL
****COMPLETED ON			
ATTACHED SHEET*****			

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

Material	From	To	SWL
***COMPLETED ON ATTACHED SHEET***			

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WATER RESOURCES DEPT  
 SALEM, OREGON

Date started 3/10/04 Completed 8/25/04

(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 [Signature] WWC Number 1709  
 Date 9-22-04

(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 [Signature] WWC Number 1523  
 Date 9/30/04

MAR 04 2009

WATER RESOURCES DEPT  
 SALEM, OREGON

T 10803





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

T 10803

WASH 61622

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
Weatherered 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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WASH 61622

0 feet

50 feet

100 feet

150 feet

200 feet

250 feet

300 feet

350 feet

400 feet

450 feet

500 feet

**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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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

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Mild Steel Blank (liner)  
894.7' - 964.7'

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950 feet

Stainless Steel Screen (liner)  
964.7' - 1004.68'

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1000 feet

Mild Steel  
Blank & Shoe  
1004.7-1009.5'

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SALEM, OREGON

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

**WASH 66115**

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			Amt	sacks/ lbs
Dia	From	To	Material	From	To		
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	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/>	.5	417	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	16	<input checked="" type="checkbox"/>	3	575	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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	655	.05			
Screen	Liner	16	605	655	675	.05			
Screen	Casing	16	655	675	755	.05			
Screen	Liner	16	675	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 WASHINGTON 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**

Existing Well / Predeepening	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 & Brown 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.  
 License Number 1530 Date 10-08-2007  
 Password: (if filing electronically) \_\_\_\_\_  
 Signed *Steve Vibbard* for Steve Vibbard

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

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

MAR 04 2009

OCT 23 2007

WATER RESOURCES DEPT  
 SALEM OREGON

T 20803

