

Amendment

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

WELL I.D. # 40426
START CARD # 132966

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

(1) OWNER: Well Number 37
Name City of Portland, Water Bureau
Address 1120 SW 5th Ave, Rm 825
City Portland State OR Zip 97204

(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 623 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
36"	0	18	Cement	5	18	30 Sacks
30"	18	237	Cement	5	237	264 Sacks
24"	237	493	Cement	10	480	607 Sacks
20"	493	623				

How was seal placed: Method A B C D E

Other Barren head on 30" steel

Backfill placed from 480 ft. to 482 ft. Material 20-40 Sand

Gravel placed from 482 ft. to 624 ft. Size of gravel 10-20 Sand

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 30"	0	18	375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26"	+4	237	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:

Perforations Method See Attached Sheet
 Screens Type V-Wire Material Stainless

From	To	Slot size	Number	Diameter	Temp. @ slot	Casing	Liner
				12"		<input type="checkbox"/>	<input type="checkbox"/>

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

<input checked="" type="checkbox"/> Pump	<input type="checkbox"/> Bailer	<input type="checkbox"/> Air	<input type="checkbox"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem at	Time
3,520	132		48hr

Temperature of water 56° 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 Malden Latitude _____ Longitude _____
Township 1 or S Range 3 or W. WM. E
Section 15 1/4 SW 1/4
Tax Lot 1400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 109.35 NE Holman Rd

(10) STATIC WATER LEVEL:
19 ft. below land surface. Date 11-20-00
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 8'

From	To	Estimated Flow Rate	SWL
69	227	N/A	
306	420	N/A	
480	609.5	N/A	19'

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
See Attached Sheet			
RECEIVED			
DEC 21 2000			
RECEIVED			
AUG 08 2001			
WATER RESOURCES DEPT. SALEM, OREGON		WATER RESOURCES DEPT. SALEM, OREGON	

Date started 10-30-00 Completed 12-13-00
(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 1672 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 [Signature] WWC Number 1464 Date 12/19/00

MULT 62835

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

WELL I.D. # L 40426 START CARD # 132966

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

(1) OWNER: Well Number 87 Name City of Portland Address 1120 SW 5th Ave, Rm 825 City Portland State OR Zip 97204

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

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

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

(5) BORE HOLE CONSTRUCTION: Special Construction approval [X] Yes [] No Depth of Completed Well 623 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Rows include Cement and Sand entries.

How was seal placed: Method [] A [] B [X] C [] D [] E [X] Other Borden heave on 30" seal Backfill placed from 480 ft. to 482 ft. Material 20-40 Sand Gravel placed from 482 ft. to 624 ft. Size of gravel 10-20 Sand

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for Casing and Liner.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Material, Casing, Liner. Includes handwritten notes 'See Attached Sheet' and 'V-Groove'.

(8) WELL TESTS: Minimum testing time is 1 hour. Table with columns: Yield gal/min, Drawdown, Drill stem at, Flowing Artesian Time. Values: 3,520, 132, 48hr.

Temperature of water 56° Depth Artesian Flow Found Was a water analysis done? [X] 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 Multnomah Latitude Longitude Township 1 N or S Range 2 E or W. WM. Section 15 NE 1/4 SW 1/4 Tax Lot 1400 Lot Block Subdivision Street Address of Well (or nearest address) 10935 NE Holman Rd

(10) STATIC WATER LEVEL: 19 ft. below land surface. Date 11-20-00 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 8'

Table with columns: From, To, Estimated Flow Rate, SWL. Rows showing flow data for different depths.

(12) WELL LOG: Ground Elevation

Table with columns: Material, From, To, SWL. Includes 'RECEIVED' stamps and 'See Attached Sheet'.

Date started 6-30-00 Completed 12-13-00 (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 1672 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 [Signature] WWC Number 1464 Date 12/19/00

Summary Log of well #37

Silt and clay, brown	0-20 -----OVERBANK DEPOSITS
Medium blue-gray clay and clayey silt	20-55
Blue-green clay and brown silt, wood frags.	55-69
Cemented gravel	69-74-----TGA
Cemented gravel to boulder and cobble size	74-79
Moderately cemented gravel and sandstone	79-104
Lightly cemented gravel	104-144
Medium grained cemented sand	144-145
Cemented and uncemented gravel and interbedded sandstone	145-227
Silty gravel	227-229-----CU1
Brown sticky clay	229-240
Dark brown silt	240-280
Light gray and dark brown silt	280-290
Light gray silt	290-300
Light gray silty clay	300-326
Dark gray to black partially cemented medium sand	326-345-----TSA, upper
Medium sand with fine gravel	345-354
Green-gray clayey silt and brown silt	354-367
Medium grained black sandstone	367-380-----TSA, lower
Black, gravelly fine to medium sand	380-390
Black coarse sand and fine gravel	390-420
Light gray soft siltstone	420-430-----CU2
Gray sandy silt and siltstone	430-445
Light gray silty clay and clay	445-455
Gray silty fine sand	455-460
Gray clay and clayey silt	460-473
Sandy clay	473-480
Dark gray fine grained sand	480-497-----SGA
Gray fine to medium grained sand	497-504
Gray medium sand, some gravel	504-510
Gravel and medium to coarse sand	510-550
Fine sand and fine to medium sand	550-572
Fine to medium sand and fine gravel	572-582
Medium to coarse sand	582-588
Gravel, medium with sand	588-590
Gray fine to medium sand	590-596
Light gray fine to medium gravel	596-600
Light gray fine to medium quartz-rich sand	600-608
Fine to medium sand with coarse sand and gravel	608-609.5
Light gray, stiff clay	609.5-623.5-----SGAf

RECEIVED

DEC 21 2000

WATER RESOURCES DEPT.
SALEM, OREGON

Production Well 37 Summary

1

Portland Water Bureau

RECEIVED

SEP 24 2001

WATER RESOURCES DEPT.
SALEM, OREGON

Portland Cement

20-40 Silica Sand

10-20 Silica Sand

MULT 62835

473'

480'

482'

40 slot screen

Bottom of 20" 493'

10-20 Silica Sand

40 slot screen

RECEIVED

SEP 24 2001

WATER RESOURCES DEPT.
SALEM, OREGON

RECEIVED

DEC 21 2000

WATER RESOURCES DEPT.
SALEM, OREGON

609'

Blank

Bail bottom for cable
tool installation

623'