

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

*WWT*  
*3539*

**RECEIVED**

**JUL - 6 1993**

*1N/3E/36*

(START CARD) # 52435

WATER RESOURCES DEPT.

**(1) OWNER:**

Name City of Troutdale  
 Address 104 SE Kibling  
 City Troutdale State OR Zip 97060

Well Number Drinker SALEM LOCATION OF WELL by legal description:

County Multnomah Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 1N N or S. Range 3E E or W. WM. \_\_\_\_\_  
 Section 36 SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  \_\_\_\_\_  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) \_\_\_\_\_

**(2) TYPE OF WORK: conversion to "other hole"**

New Well  Deepen  Recondition  Abandon

**(3) DRILL METHOD:**

Rotary Air  Rotary Mud  Cable

Other pump rig

**(4) PROPOSED USE:**

Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Other piezometer

**(5) BORE HOLE CONSTRUCTION:**

Special Construction approval  Yes  No Depth of Completed Well \* ft. \_\_\_\_\_  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE*		SEAL*		Amount sacks or pounds
Diameter	From To	Material	From To	
<i>*see attached drawing</i>				

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	Material			
					Steel	Plastic	Welded	Threaded
Casing:					<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"/>

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"/>
						<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"/>

**(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: \_\_\_\_\_

**(10) STATIC WATER LEVEL: see attached sketch**

\_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

**(11) WATER BEARING ZONES:**

see original log attached  
 Depth at which water was first found \_\_\_\_\_

From	To	Estimated Flow Rate	SWL

**(12) WELL LOG:**

Ground elevation approx. 250

Material	From	To	SWL
This is not a water supply or monitoring well. This well has been converted to a multi-completion piezometer well (i.e. an "other hole").			
Work done consisted of:			
1. Removing debris and sand from 335' to 591'.			
2. Adding 6 inches of 12"x.375 wall casing to extend it above concrete pedestal there-by enabling installation of drip proof cover.			
3. Installing 2" PVC pipes and placing sand, pea gravel and bentonite.			
This report is not required but utilized to document the as-built to facilitate future use or abandonment.			

Date started 6/9/93 Completed 6/21/93

**(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.

WWC Number \_\_\_\_\_  
 Signed N.A. Date \_\_\_\_\_

**(bonded) Water Well Constructor Certification:**

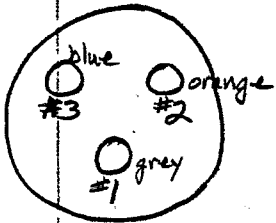
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 649  
 Signed Stephen Schneider Date 6/24/93

# City of Troutdale - Drinker 1A Piezometer Well

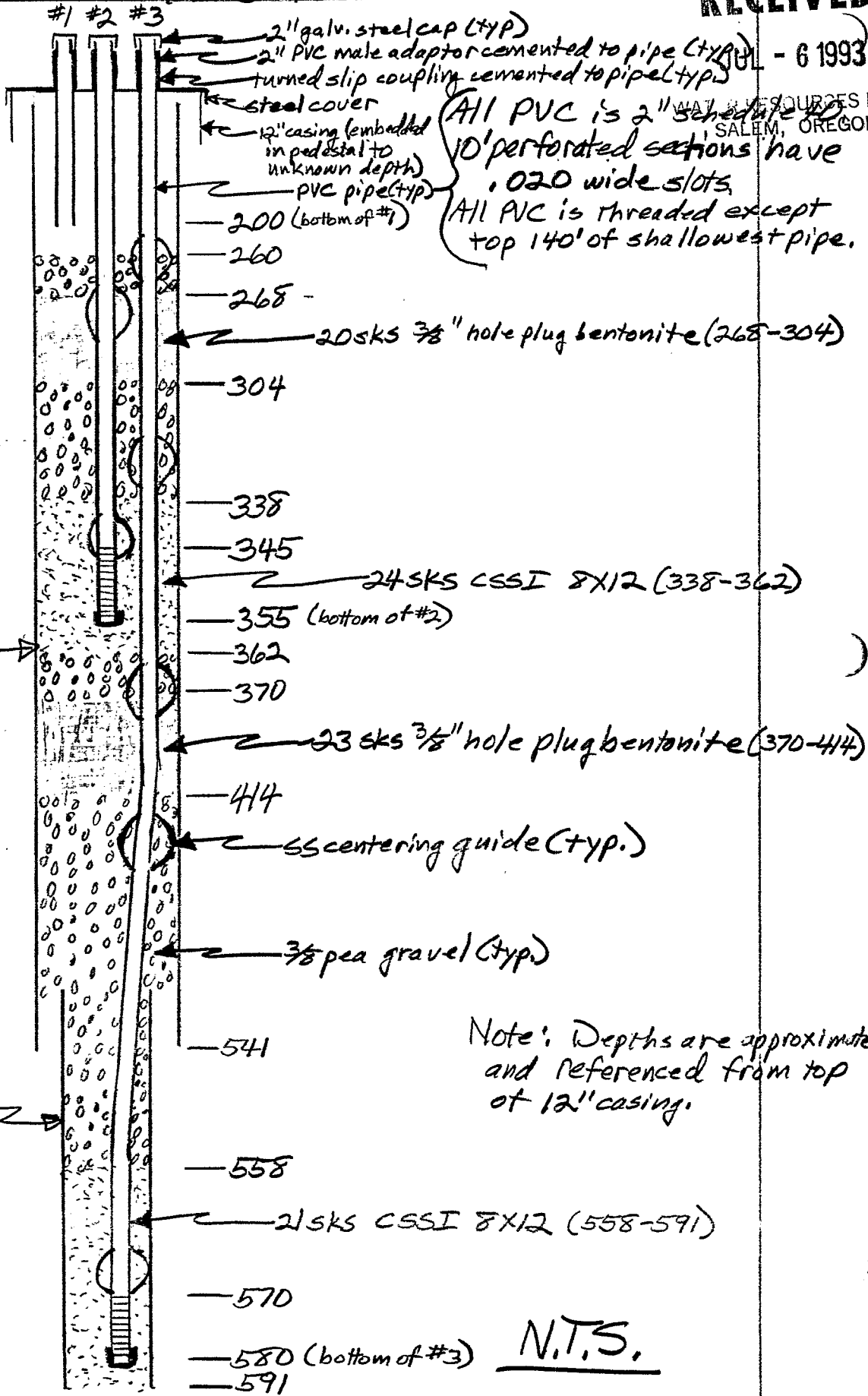
SC. #52435

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SWL 6/21/93:

- #1 - 175
- #2 - 174
- #3 - 215



All PVC is 2" Schedule 40  
 10' perforated sections have .020 wide slots  
 All PVC is threaded except top 140' of shallowest pipe.

existing 10" csg. →

existing 8" csg. →

Note: Depths are approximate and referenced from top of 12" casing.

N.T.S.

WATER RESOURCES DEPT  
 SALEM, OREGON

RECEIVED

JUL - 6 1993

Oregon

April 19, 1993

WATER RESOURCES DEPT.  
SALEM, OREGON

WATER  
RESOURCES  
DEPARTMENT

Steve Schneider  
Schneider Equipment, Inc.  
21881 River Road NE  
St. Paul, OR 97137

Dear Steve:

I have had an opportunity to review the information you forwarded to me concerning the City of Troutdale "Drinker" well. I apologize for the delay in responding. Robinson and Nobel intend to convert the well to a multi-completion piezometer. Due to the fact that there is no contamination verified in any of the target aquifers, I have no concern about the construction of a multi-completion piezometer. I would, however, like to see some modifications in Robinson and Noble's initial design.

The design changes are as follows:

1. I would recommend that prior to installation of the piezometer, that the current well be cleaned out of any sand and debris to the original depth of 591 feet. The sand in the bottom of the well has sufficient permeability to allow commingling of water from the bottom water producing zone upwards. This allows waste of the lower water zone. Once the sand is removed, the lower zone could be monitored, or the bottom could be abandoned with a impermeable material.
2. I would also recommend that the bentonite layers used to seal each interval off be extended to 20 feet. The 10 foot placement may not adequately seal off each interval. Also, due to the depth of placement, a greater amount of bentonite may allow for a more positive placement.

Our Department would be interested in any measurements taken from this well. If you have any questions concerning this letter, please give me a call.

Sincerely,



Rob Carter  
Well Construction Specialist

cc: Mark Norton, GW/Hydrology  
Ken Lite, GW/Hydrology



3850 Portland Rd NE  
Salem, OR 97310  
(503) 378-3739  
FAX (503) 378-8130