

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

RECEIVED WATER WELL REPORT

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion

JUL 26 1979 STATE OF OREGON
(Please type or print)

State Well No. 4s12w-19

State Permit No.

WATER RESOURCES DEPT
SALEM OREGON (write above this line)

MAR 21 1983

(1) OWNER:

Name City of St. Paul Well #2
Address St. Paul, Oregon 97137

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rev Rotary Cable Dug Driven Jetted Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded

" Diam. See Sheet Attached ft. Gage See Sheet Attached ft.
" Diam. from _____ ft. to _____ ft. Gage _____ ft.
" Diam. from _____ ft. to _____ ft. Gage _____ ft.

(6) PERFORATIONS:

Perforated? Yes No.

Type of perforator used mill cut
Size of perforations 1/8 in. by 2 1/2 in.
480 perforations from 125' 11" ft. to 147' 8" ft.
1272 perforations from 157' 8 1/2" ft. to 216' 2" ft.
480 perforations from 233' ft. to 254' 9" 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? SEI
Yield: gal./min. with _____ ft. drawdown after _____ hrs.
" See Sheet Attached " " "
" " " " "
Bailer test gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow g.p.m. _____
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

9 yds
5 sk ready Mix concrete
Well seal—Material used _____
Well sealed from land surface to 27 ft.
Diameter of well bore to bottom of seal 32 in.
Diameter of well bore below seal 32 in.
Number of sacks of cement used in well seal 45 sacks
How was cement grout placed? poured from top down tremie chute (see attached letter)

Was a drive shoe used? Yes No Plugs _____ 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: 1/4 - 3/4
Gravel placed from 27 ft. to bottom ft.

(10) LOCATION OF WELL:

County Marion Driller's well number 7903
1/4 Section 19 T. 4S R. 2W 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 42 ft. below land surface. Date 6-18-79
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled 275 ft. Depth of completed well 258 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
See sheet attached			

Work started 5-22 19 79 Completed 6-21 19 79
Date well drilling machine moved off of well 6-21 19 79

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] Donald C. Schubert Date 7-12, 19 79
(Drilling Machine Operator)

Drilling Machine Operator's License No. 1121

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 Schneider Equipment, Inc.
(Person, firm or corporation) (Type or print)

Address 21981 River Rd NE, St. Paul, Or 9737

[Signed] Stephen J. Schneider
(Water Well Contractor)

Contractor's License No. 649 Date 7-12, 19 79

City of St. Paul Well No. 2

Test Report

Date of Test: June 16, 1979 By: Schneider Equipment, Inc.

Time of Day	Water Level (below ground)	Gallons Per Minute	Remarks
9:20 a	49½	0	Measured static
9:25 a	various	various	Started pump - rawhiding
9:40 a	91½	2150	Started steady pumping - cloudy w/ some sand
9:55 a	101	2025	cloudy w/ some sand
10:10 a	104½	1925	cloudy w/ some sand
10:25 a	107	1875	cloudy w/ some sand
10:40 a	109	1850	cloudy w/ some sand
10:55 a	110½	1800	cloudy w/ some sand
11:10 a	110½	1800	cloudy w/ some sand
11:25 a	110½	1800	cloudy w/ some sand
11:40 a	110½	1775	cloudy w/ some sand
11:55 a	110½	1775	cloudy w/ some sand
12:10 p	109½	1725	cloudy w/ some sand
12:25 p	109	1675	cloudy w/ some sand
12:40 p	109	1675	cloudy w/ some sand
12:55 p	109	1675	cloudy w/ some sand
1:10 p	109	1625	cloudy w/ some sand
1:25 p	109	1625	slightly cloudy - no sand
1:40 p	109	1625	clear
1:45 p	107½	1400	clear - slowed pump
1:50 p	105½	1400	clear
2:00 p	105½	1400	clear
2:05 p	105½	1400	clear
2:10 p	105½	1400	clear
2:20 p	99½	1025	clear
2:25 p	95½	1025	clear
2:30 p	94½	1025	clear
2:35 p	93½	1025	clear
2:40 p	93½	1025	clear
2:45 p	93½	1025	clear
2:50 p	93½	1025	clear
3:05 p	91½	420	clear

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 SALEM, OREGON

Water Report

Time of Day	Water Level (Below ground)	Velocity per minute	Direction
7:10 p	86½	420	clear
7:15 p	79½	420	clear
7:20 p	76½	420	clear
7:25 p	76½	420	clear
7:30 p	76½	420	clear
7:35 p	76½	0	stopped pump
7:40 p	72½	0	
7:45 p	70½	0	
7:50 p	69½	0	
7:55 p	69	0	
8:00 p	68	0	
8:05 p	66½	0	
8:10 p	65½	0	
8:15 p	63½	0	
8:20 p	63	0	
8:25 p	61½	0	
8:30 p	61	0	

Stuebel
Milo
Town

Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8455

May 24, 1978

Milo Schneider
Schneider Equipment, Inc.
21881 River Road N.E.
St. Paul, Oregon 97137

Dear Mr. Schneider

Please accept my apologies for the delay in responding to your recent letter requesting special standards for the use of concrete instead of cement grout as sealing material in large diameter wells that provide excessive space between the drill hole wall and the outside casing of the well. You are hereby granted special permission to use concrete instead of cement with the following provisions and conditions:

- 1) Concrete shall consist of clean, hard, durable aggregate, and not less than five sacks of Portland cement per cubic yard of concrete. Maximum diameter of the aggregate shall not exceed 3/4 of a foot.
- 2) If the well to be sealed is not dry, concrete shall be placed to the bottom of the seal zone upward in one continuous pour.
- 3) In the event that the bore air space to be sealed is dry concrete shall be placed through a tremie pipe to prevent segregation of the aggregate and cement mixture and to prevent bleed.
- 4) The space between the sealing surfaces of all casings and between all casings and the bore hole shall exceed 3-inches or more.

Special standards to construct a well as described above shall not be applied to all wells constructed in such a manner. Each well shall have special standards on the well reports of all wells on file in the Department.

Sincerely,

WILLIAM B. MCGEE
Geologist

**SCHNEIDER
EQUIPMENT, INC.**

21881 River Road N.E. St. Paul, Oregon 97137 (503) 633-2666

June 18, 1979

Department of Human Resources
Health Division
1400 S. W. 5th Ave.
Portland, Ore. 97201

Attention: A. D. Smythe

Dear Sir,

Enclosed is a preliminary log and casing data for a well drilled at the city of St. Paul. This well was drilled with reverse circulation 32" diameter and 12" casing and 6" gravel feed were installed. The 6" gravel feed will be pulled to approximately 30' to 35' before the seal is placed.

We would like approval for the use of ready mix in the seal of this well for the following reasons:

- (1) better job
- (2) cheaper
- (3) faster
- (4) as ready mix falls it tends to push out tighter to the bore hole
- (5) the aggregate in ready mix is not as prone to shrinkage

Following is information on the well test:

1625 gpm after 4 hours from 109' PL from grd level
1400 gpm after 4½ hours from 105½ PL from grd level
1025 gpm after 5 hours from 93½ PL from grd level
420 gpm after 5 ¾ hours from 86½ PL from grd level

We trust this is sufficient information for you to make a decision.

Sincerely yours,

Milo O. Schneider

MOS/rs

Milo Schneider

Discussed this with Al Petska on 6-18-79. I told him that I felt redmix in the annular space between 12" casing and 32" hole would be OK. A.D. Smythe

Material	From	To
Overburden	0	3
Clay, brown, silty	3	26
Clay, brown, hard, dry	26	35
Clay, brown, silty	35	44
Clay, brown & Grey, silty	44	56
Clay, brown	56	60
Sand, blue grey, med fine, lightly cemented	60	66
Sand, brown & grey, med fine	66	75
Sand, grey, med with some fine gravel	75	82
Sand, grey, med fine	82	87
Clay, blue	87	92
Clay, grey	92	102
Clay, grey with some fine sand & wood chips	102	114
Clay, grey	114	121
Sand, fine, grey with some grey clay	121	128
Sand, med fine, grey	128	135
Sand, med, grey with some gravel & wood chips	135	138
Gravel, med to coarse	138	145
Clay, soft	145	149
Clay, blue gray, med soft	149	157
Clay, green, soft	157	165
Clay, green, very gritty - sandy	165	170
Sand, grey-green, coarse	170	173
Clay, grey, medium	173	177
Sand, coarse & occasional gravel to 1"	177	179
Clay, grey med	179	190.
Clay, grey, soft silty	190	193
Sand, fine, dark grey w/ some clayturning to 1" gravel	193	196
Clay, grey, medium	196	200
Sand, dark grey, fine	200	203
Sand & pea gravel, dark grey, coarse	203	211
Clay, grey, medium	211	215
Sand, dark grey, coarse w/ some pea gravel	215	219
Clay, grey, soft, silty	219	226
Clay, grey-green, medium gritty	226	238
Sand, dark grey, medium	238	243
Clay, grey, medium	243	247
Sand, dark grey, coarse w/ pea gravel	247	250 $\frac{1}{2}$
Clay, grey, med soft	250 $\frac{1}{2}$	252
Sand, black coarse	252	253
Clay, grey, medium w/ some gravel	253	255
Clay, grey, medium	255	271
Clay, grey, soft silty	271	275

(5)

Casing Installed

12" Diam. from	+2'6" to	45'9"	Gage	.375
12" Diam. from	45'9" to	125'11"	"	.330
12" Diam. from	125'11" to	254'9"	"	.375
12" Diam. from	254'9" to	274'9"	"	.330
6" Diam. from	+2' to	27'11"	"	.250 (Gravel Feed)