NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

CLAC 5444

WATER WELL REPORT

STATE OF OREGON

RECEIVED
MAR 30 1979
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 2S/4E-4

(Please type or print)

(Do not write above this line)

State Permit No.

(1) OWNER: (J. Frank Schmidt Nursery)

Name Homebuilders Investment & Supply, Inc.

Address 855 E. Burnside
Portland, Oregon 97030

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

12 " Diam. from +4 ft. to 281½ ft. Gage .330

12 " Diam. from driveshoe 281½ ft. to 282 ft. Gage

" Diam. from ft. to ft. Gage

(6) 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.

(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 attached sheet " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used neat cement grout w/ 2% bentonite & 5 gal H_2O per sack

Well sealed from land surface to 38'8" ft.

Diameter of well bore to bottom of seal 16 in.

Diameter of well bore below seal 12 in.

Number of sacks of cement used in well seal 95 sacks

How was cement grout placed? pumped from bottom of annular space upward as 16" surface casing was pulled.

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:

Gravel placed from - ft. to - ft.

(10) LOCATION OF WELL:

County Clackamas Driller's well number 7901

¼ ¼ Section 4 T. 2S R. 4E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 0 ft.

Static level 161½ ft. below land surface. Date 3-19-79

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 405 ft. Depth of completed well 405 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			
*See attached letter to and from Water Resources Dept. Note: Although it is extremely doubtful that any additional future work would be required on the well, considering the contract for constructing the well was on a time and material basis, Schneider Equipment, Inc. cannot be held liable for any future work on the well without just and reasonable compensation for the performance of any such work.			

Work started 11-16 19 78 Completed 3-22 19 79

Date well drilling machine moved off of well 3-20 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 E. Davis (Drilling Machine Operator) Date 3-27, 19 79

Drilling Machine Operator's License No. 1085

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 21881 River Rd NE, St. Paul, Ore. 97137

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

Contractor's License No. 649 Date 3-27, 19 79

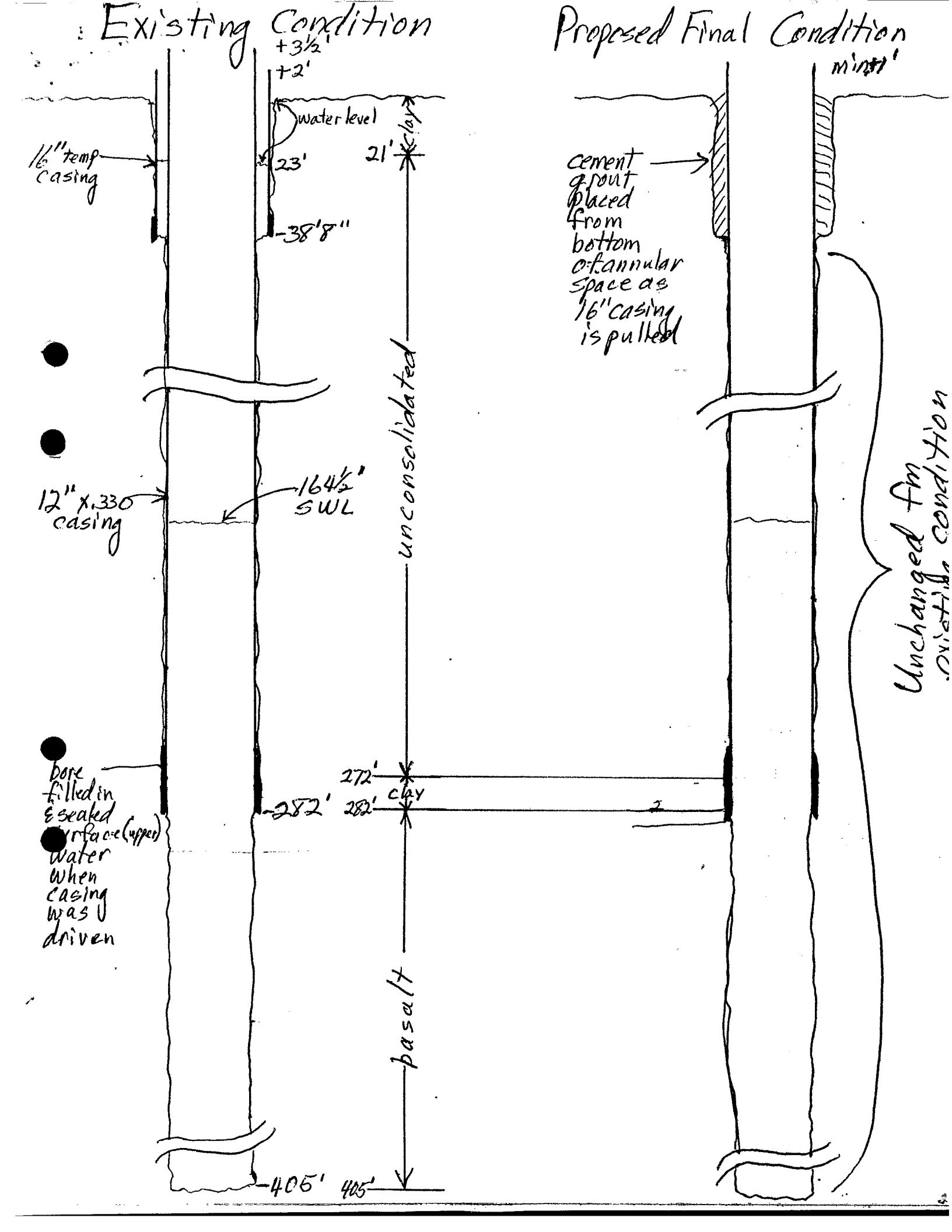
(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

Homebuilders Investment & Supply, Inc.

Material	From	To	SWL
Top soil, brown	0	2	
Clay, red	2	11	
Clay, red & gray w/ rocks conglomerate	11	21	
Gravel up to 6"	21	28	
Gravel w/ some clay, light brown	28	30	
Sand, coarse and gravel	30	35	
Sand & gravel w/ signs of clay	35	40	
Sand & some gravel w/ clay	40	48	
Sand, clay & gravel conglomerate	48	58	
Sand, clay & pea gravel conglomerate	58	62	
Clay, green w/ some sand & pea rock	62	77	
Clay, green and gray w/ some sand & gravel	77	79	
Sand & gravel w/ some clay	79	84	
Sand & gravel up to 1"	84	88	
Gravel, cemented w/ clay	88	109	
Clay, light brown, silty	109	112	
Clay, light brown, fine sandy	112	124	
Clay, light brown, with some gravel	124	132	
Clay, light brown, fine- medium sandy	132	145	
Clay, light brown, fine- medium sandy w/ some gravel	145	182	
Clay, brown w/ some coarse sand cemented	182	190	
Clay, brown	190	207	
Sand & gravel cemented, w/ some clay	207	216	
Sand & gravel loosely cemented	216	224	142
Gravel & sand	224	231	
Clay, gravel & sand, brown, conglomerate	231	234	
Clay, brown, hard	234	238	
Clay, brown	238	240	
Sand, brown w/ clay & pea gravel	240	244	
Clay, light brown w/ gravel, cemented	244	247	
Sand, brown, medium coarse w/ some clay brown	247	250	
Sand, brown med. coarse w/ clay, brown	250	254	
Sand, brown medium	254	258	
Sand, black coarse	258	267	
Sand, black, med. coarse w/ some clay, gray	267	270	
Sand, black, med. coarse	270	272	
Clay, dark gray & dark green streaked gritty	272	282	
Basalt, black hard	282	289	164½
Basalt, fractured w/ clay	289	314	164½
Basalt, fractured medium hard w/ occasional gravel layers	314	405	164½

SWL
2 unknown
unknown
unknown


Existing Condition
+3½'
+2'
water level
16" temp casing
23'
21'
clay
-38'8"
unconsolidated
12" x.330 casing
164½' SWL
bore filled in & soaked
surface (upper) water when casing was driven
272'
clay
-282'
282'
basalt
-405'
405'
Proposed Final Condition
min +1'
cement grout placed from bottom of annular space as 16" casing is pulled
Unchanged from existing condition

Well Construction Summary

0 - 238 Static approximately 0 because of surface water

Drove casing to 225'6" - bailed hole - bail bucket stuck set for 4 days - static 142' - blew bail bucket loose - static came back to surface

Drilled to 282' - cased to 275' - Static 15' but over weekend filled back to surface

Drilled to 304' - drove casing to 282' - casing stopped - Static stayed at surface

Drilled to 405' - Static at 0

Had 354' of hole on Monday A.M. - tried to drive casing 3/4 hour - did not move casing

Set air lift (6" & 2") at 303' - Static 0 - Started air -
Static went 0 to 164'6" - 500+ gpm - 176'6" PL
Next day Static went to 164'6" 179' PL
2-22-79 Static 164'6"
Between casing 23'
Outside 16" 0

Has 40'8" of 16" casing - 38'8" below ground
285'6" of 12" +3'6" to 282' - no drilling since

ROBERT W STRAUB
GOVERNOR

Water Resources Department

MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-8455

March 9, 1979

Milo Schneider
Schneider Equipment, Inc.
21881 River Rd. NE
St. Paul, Oregon 97137

Dear Mr. Schneider:

This is to acknowledge receipt of your request for special standards for the Homebuilder's Investment and Supply, Inc. well located in Section 4, Township 2 South, Range 4 East. The well log describing the construction of the well reports that 282 feet of 12-inch diameter casing was placed in the well to a depth of 282 feet. Basalt rock was reportedly encountered at this depth, overlain by 10 feet of clay. Your observation of air tests within the well reportedly confirmed to you that the casing provided a "shoe cut-off" between the upper sedimentary rocks and the basaltic aquifer system.

You are hereby granted special standards to construct the aforesaid well in accordance with your written report. The 12-inch casing is to be sealed to a depth of 38 feet 8-inches as the 16-inch temporary casing is removed.

Should it become evident at some future date that the well, by the nature of its construction is a source of contamination or waste of the ground water, it will become necessary for you to return to the well site to correct all well deficiencies.

Sincerely,

William B. McCall

WILLIAM B. MCCALL
Hydrogeologist

WBM:clh
cc: Cliff King, Watermaster, District #16