

OCT 30 1985

PLEASE TYPE OR PRINT IN INK

WR APP G 13572
(for official use only)

WATER RESOURCES DEPT

(1) OWNER: SALEM, OREGON
Name J. Frank Schmidt & Son Co.
Address 9500 SE 327th
City Boring State Oregon

(2) TYPE OF WORK (check): 90009
Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):
Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Thermal: Withdrawal ReInjection
Cable Bored Other: Piezometric Grounding Test

(5) CASING INSTALLED: Steel Plastic
Threaded Welded
16 " Diam. from 1.5 ft. to 709 ft. Gauge .375
12 " Diam. from 695 ft. to 1116 ft. Gauge .330

LINER INSTALLED: Steel Plastic
Threaded Welded
" Diam. from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? Yes No
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? Layne
d: 1180 gal./min. with 158 ft. drawdown after 2 1/2 hrs.
1062 " " 127 " " 3 "
~~At test~~ 885 gal./min. with drawdown at 89' ft. 3 1/2 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
perature of water 74°F Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes No
Well seal—Material used
Well sealed from land surface to } See attached sketch.
Diameter of well bore to bottom of seal in.
Diameter of well bore below seal in.
Amount of sealing material Cement 254 sacks pounds
How was cement grout placed? Pumped - Methods A & C

Was pump installed? no Type HP Depth ft.
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 by legal description:
County Clackamas NW 1/4 SW 1/4 of Section 27 of
Township 1S Range 4E WM.
(Township is North or South) (Range is East or West)
Tax Lot Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address) See OWNER
Designated Hood Acres Well No. 5

(11) WATER LEVEL of COMPLETED WELL:
Depth at which water was first found approximately 180 ft.
Static level 528 ft. below land surface. Date 8/7/85
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 12
Depth drilled 1783 ft. Depth of completed well 1783 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
<u>See Attached</u>			

Date work started 11/16/84 /completed 10/1/85
Date well drilling machine moved off of well 10/1 1985

(unbonded) Water Well Constructor Certification (if applicable):
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Date, 19

(bonded) Water Well Constructor Certification:
Bond EX490-652 Issued by: American States Ins.
(number) (Surety Company Name)
On behalf of Schneider Equipment, Inc.
(type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief:
(Signed) Stephen Schneider
(Water Well Constructor)
(Dated) 10/25/85

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WELL LOG

WATER RESOURCES DEPT
SALEM, OREGON

FRANK SCHMIDT & SON CO.

HOOD ACRES WELL NO. 5

Depth in Feet

0	-	2	Top soil, brown
2	-	31	Clay, red
31	-	48	Clay, multi-colored tan-yellow, gritty
48	-	52	Boulders & gravel, some clay
52	-	68	Gravel & cobbles
68	-	69	Gravel & cobbles with clay, brown
69	-	71	Sandstone, yellow
71	-	72	Clay, silty, grey
72	-	74	Gravel & cobbles
74	-	75	Sandstone (yellow brown)
75	-	84	Gravel & cobbles (boulders)
84	-	100	Gravel & boulders
100	-	121	Gravel & clay
121	-	124	Gravel & clay & boulders
124	-	136	Gravel & boulders with clay
136	-	148	Gravel, boulders & clay
148	-	152	Gravel & cobbles (loose)
152	-	155	Gravel & cobbles - 6"-8"
155	-	168	Gravel & cobbles cemented with clay
168	-	169	Boulder
169	-	176	Gravel & cobbles (cemented)
176	-	184	Gravel & cobbles cemented w/some clay
184	-	186	Gravel, 3" minus & sand coarse loose
186	-	197	Gravel & cobbles w/occas. boulder
197	-	210	Gravel & cobbles, some cemented
210	-	220	Gravel 6" minus w/some clay binder, yellow
220	-	224	Gravel w/some cobbles w/clay binder
224	-	228	Gravel & cobbles w/clay (some)
228	-	236	Gravel w/clay, tan
236	-	237	Clay tan w/gravel
237	-	251	Clay, tan & brown w/some gravel
251	-	255	Clay, light gray w/some gravel
255	-	263	Clay, tan & brown w/some gravel
263	-	267	Gravel & clay, brown
267	-	282	Clay, tan, gray & brown gritty & gravel
282	-	286	Clay, tan, gray & brown & gravel
286	-	299	Clay, tan w/occasional gravel layer
299	-	311	Clay, tan gritty
311	-	313	Clay, tan w/some gravel
313	-	316	Gravel w/clay layers
316	-	323	Gravel & clay, brown fine sandy, dry
323	-	332	Clay, brown
332	-	336	Clay, white & tan soft
336	-	344	Clay & broken gravel
344	-	346	Gravel w/some clay
346	-	348	Gravel w/trace of clay
348	-	365	Gravel & clay, brown silty
365	-	372	Clay, reddish brown w/broken gravel imbedded
372	-	375	Gravel & clay reddish brown
375	-	381	Clay & gravel brown

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HOOD ACRES WELL NO. 5

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Depth in Feet

381	-	386	Gravel w/clay & coarse sand imbedded brown
386	-	396	Gravel cemented, w/clay, brown
396	-	402	Gravel cemented w/coarse sandy clay brown
402	-	409	Gravel 8" minus w/some clay (looser)
409	-	424	Basalt, blk, fractured w/some yellow clay
424	-	433	Basalt, blk, med fractured w/some clay, yellow
433	-	440	Basalt, blk, fractured w/some clay, yellow
440	-	444	Gravel & clay tan
444	-	446	Clay tan firm sticky
446	-	451	Clay tan, sticky
451	-	457	Clay, med blue-gray
457	-	466	Clay, blue-gray soft
466	-	470	Clay, tan & brown firm sticky
470	-	473	Gravel & clay tan fine sandy
473	-	477	Clay, tan & brown w/broken rock imbedded
477	-	485	Clay, blue-gray, med
485	-	488	Sandstone blk w/some clay
488	-	491	Clay, drk blue-gray
491	-	493	Clay, gray
493	-	495	Sandstone, or cemented sand blk w/brown sandy clay
495	-	502	Clay, brown sandy, dry
502	-	503	Clay, reddish brown sticky
503	-	508	Clay, blue-gray sticky
508	-	517	Clay, blue w/sand blk imbedded, soft
517	-	524	Clay, blue-green, flakey med
524	-	526	Clay, blue-green drk w/sand imbedded, soft
526	-	527	Clay, blue-green & gray w/sand imbedded, med
527	-	529	Clay, gray firm
529	-	531	Clay, gray w/sand imbedded, med
531	-	533	Clay, blue & brown streaked fine sandy
533	-	541	Clay, brown fine sandy
541	-	546	Clay, tan brown, fine sandy w/firm streaks
546	-	550	Clay, gray, fine sandy
550	-	554	Clay, blue-green sticky, flakey
554	-	556	Clay, blue-green, med
556	-	560	Clay, gray, soft
560	-	564	Clay, blue & gray streaked, firm, sticky, flakey
564	-	570	Clay, blue-green, drk, fine sandy, med
570	-	576	Clay, gray silty, soft
576	-	592	Clay, blue, sticky
592	-	596	Clay, blue-gray, med sticky
596	-	599	Clay, blue & gray sandy, dry
599	-	601	Clay, gray, fine sandy, dry
601	-	603	Clay, gray, sticky
603	-	609	Clay, blue & gray, med soft
609	-	610	Clay, gray, fine, sandy
610	-	616	Clay, blue-gray, sticky
616	-	622	Clay, gray, fine sandy, dry
622	-	628	Clay, gray, fine sandy
628	-	632	Clay, gray, sticky
632	-	638	Clay, blue-green firm sticky
638	-	642	Claystone, gray, hard
642	-	656	Clay, gray & blue sticky w/hard streaks

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Depth in Feet		
656	- 657	Clay, blue & gray sticky
657	- 662	Clay, blue-green sticky
662	- 673	Clay, gray, med sandy, firm, dry
673	- 675	Clay, blue-green & gray, med sandy, firm, dry
675	- 676	Clay, blue-gray sticky
676	- 677	Clay, blue-gray, fine sandy
677	- 697	Clay, gray, fine sandy
697	- 702	Clay, blue-green, flakey, firm
702	- 712	Clay, gray, fine sandy, firm
712	- 717	Clay, gray, fine sandy, soft
717	- 726	Clay, blue-gray, fine sandy, med
726	- 729	Clay, gray, fine sandy, firm
729	- 730	Clay, gray, sticky
730	- 732	Clay, gray, firm
732	- 735	Clay, blue, med
735	- 736	Clay, gray, fine sandy, firm
736	- 740	Clay, gray & blue, fine sandy, med
740	- 743	Clay, blue, sticky, med
743	- 745	Clay, blue w/firm streaks, sticky
745	- 749	Clay, blue, fine sandy, med
749	- 753	Clay, blue & gray, fine sandy, med
753	- 757	Clay, gray, med sandy, hard
767	- 770	Clay, gray, med, hard
770	- 777	Clay, gray, med sandy, firm
777	- 780	Clay, gray, med sandy, firm
780	- 786	Clay, gray, fine sandy, med
786	- 789	Clay, gray, fine sandy, med, w/wood
789	- 794	Clay, blue, sticky
794	- 798	Clay, gray, fine sandy w/hard layers
798	- 804	Clay, drk brown & gray streaked
804	- 805	Clay, drk brown, firm
805	- 830	Clay, blue & gray, little sandy med
830	- 860	Clay, gray, soft silty
860	- 872	Clay, gray, soft gritty
872	- 880	Clay, dark brown, fine sandy
880	- 890	Clay, blue green, soft
890	- 955	Clay layers of gray & blue green, soft
955	- 985	Clay, gray, med
985	- 1010	Clay, gray & blue green layers, med soft
1010	- 1035	Clay, dark gray, soft
1035	- 1042	Sandstone, gray, med
1042	- 1073	Clay, gray, soft
1073	- 1085	Clay, blue-green, soft
1085	- 1094	Clay, gray, soft
1094	- 1105	Siltstone & basalt, multi-color, soft
1105	- 1112	Siltstone & basalt, multi-color, med
1112	- 1147	Siltstone & basalt layers, multi-color, med
1147	- 1176	Basalt, black, med hard
1176	- 1202	Sandstone, multi-color, med with occasional clay layers
1202	- 1226	Basalt, black med w/sandstone & clay layers
1226	- 1307	Basalt, black, hard

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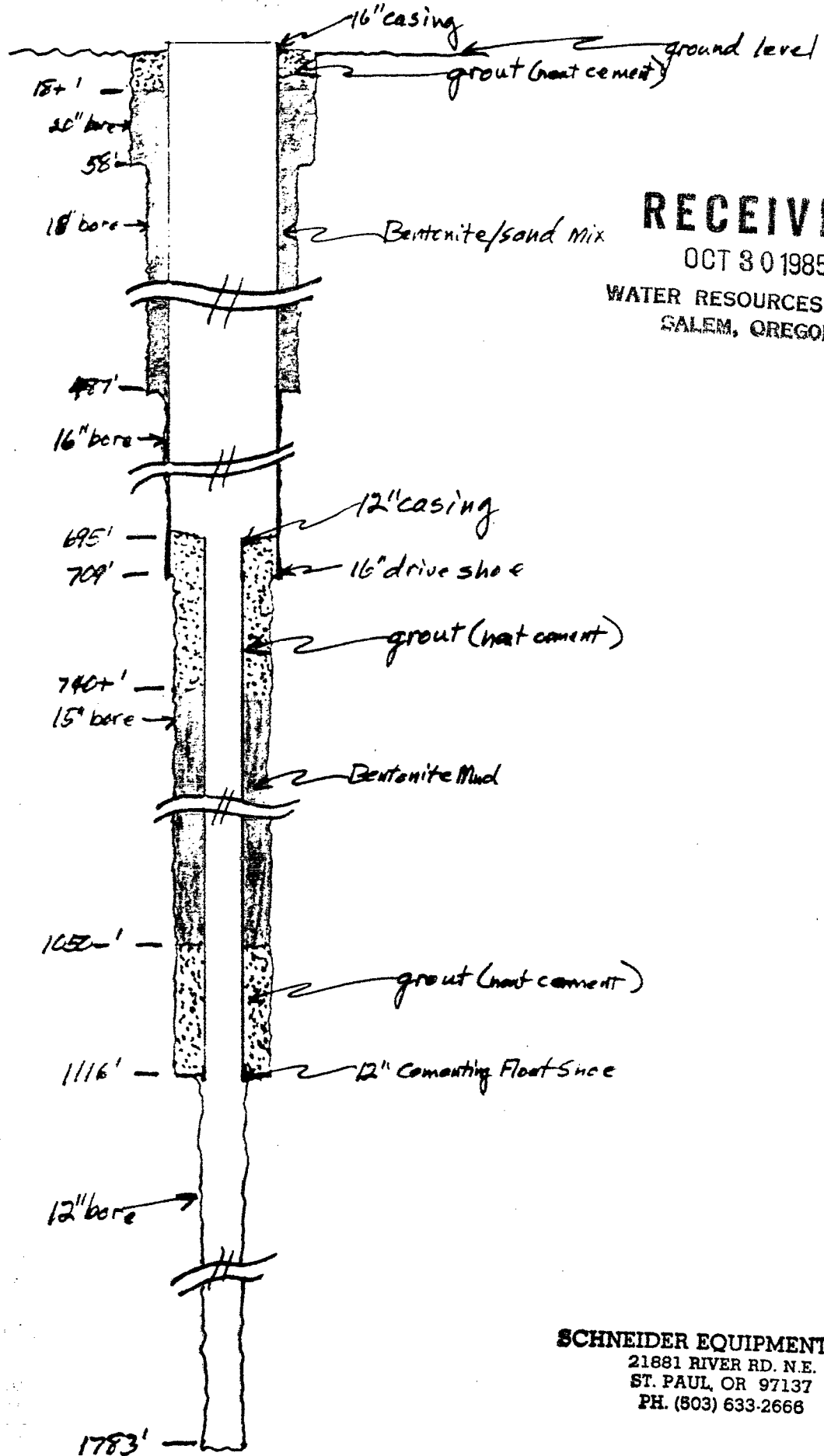
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Depth in Feet		
1307 - 1320		Basalt, black, soft, fractured, some clay, black
1320 - 1326		Basalt, black, hard
1326 - 1341		Basalt, black, med, fractured
1341 - 1369		Basalt, black, hard
1369 - 1392		Basalt, black, hard, some fractures
1392 - 1419		Basalt, black, soft-hard, fractured, some clay
1419 - 1424		Basalt, black, med, some fractures
1424 - 1435		Basalt, black, med
1435 - 1461		Basalt, black, med-hard
1461 - 1478		Basalt, black, soft, fractured
1478 - 1485		Basalt, black, med, some fractures
1485 - 1501		Basalt, black, med-hard S.W.L. 536'
1501 - 1506		Clay, dark grey, hard-crumbly, with basal & chips
1506 - 1509		Basalt, grey, hard
1509 - 1525		Basalt, black, med-hard
1525 - 1538		Basalt, black, med, vesicular & fractures
1538 - 1539		Basalt, black, soft-med, with claystone layers
1539 - 1542		Basalt & sandy clay layers, multi-colored, soft
1542 - 1550		Basalt, black, med-hard, some vesicles & fractures
1550 - 1553		Basalt, black & grey, vesicular, occ. fracture
1553 - 1557		Basalt, grey, med-hard
1557 - 1560		Shale, grey, occ. black basalt imbedded
1560 - 1569		Basalt, dark grey, soft-med, vesicular with some green shale
1569 - 1578		Basalt, black, med-hard, some vesicles & fractures
1578 - 1580		Basalt, black, hard
1580 - 1591		Basalt, black, med, some fractures
1591 - 1600		Basalt, black, hard
1600 - 1603		Basalt, black, hard with clay lenses
1603 - 1612		Basalt, black, hard
1612 - 1617		Clay, dark grey-black, gritty, med
1617 - 1627		Basalt, black, med, vesicular & fractures
1627 - 1657		Basalt, black, med-hard, some fractures/vesicles, occ. grey basalt lenses
1657 - 1669		Basalt, grey, hard, some fractures/vesicles, some black
1669 - 1691		Basalt, grey, hard, occ. green shale lenses
1691 - 1707		Basalt, grey, hard
1707 - 1741		Basalt, grey, hard, occ. green shale lenses
1741 - 1750		Basalt, grey, hard
1750 - 1759		Basalt, dark grey, soft, broken fractured/vesicular, W.B., S.W.L. 528'
1759 - 1765		Basalt, dark grey, soft-med, fractured/vesicular
1765 - 1775		Basalt, grey, med, fractures
1775 - 1783		Basalt, grey, hard

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J. Frank Schmidt & Son Co.
Hood Acres Well No. 5 - 1985



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WATER RESOURCES DEPT
SALEM, OREGON

SCHNEIDER EQUIPMENT, INC.
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