

YAMH 639

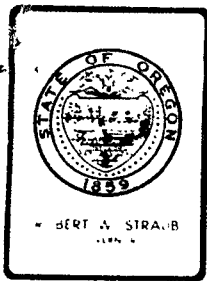
Schneider Equipment, Inc.
 (12) Well Log
 City of Amity

RECEIVED

AUG 02 1984

**WATER RESOURCES DEPT
 SALEM, OREGON**

0	2	Top Soil
2	10	Clay, Brown
10	14	Clay, Brown, Silty
14	18	Clay, Brown, Sticky
18	24	Clay, Brown, Silty
24	41	Clay, Brown, Sticky, Soft
41	44	Clay, Grey, Soft
44	45	Clay, Grey, Gritty, Med-hard, Some pea gravel
45	47	Clay, Grey-green, gritty, some pea gravel
47	49	Clay, green and sand, coarse and pea gravel
49	57	Gravel, 1½ minus and sand, coarse
57	63	Gravel, ¾ minus, rusty and sand, coarse w/clay brown
63	65	Gravel, ¾ minus and sand, coarse w/some clay, brown
65	70	Gravel, 3" minus and sand, coarse, brown
70	74	Gravel, 1" minus and sand, coarse, greenish black w/ some clay, green
74	78	Gravel, 3" minus and sand, coarse, greenish black w/clay, green cementation
78	81	Gravel, 1" minus and sand, coarse, some wood
81	85	Clay, grey, med.
85	93	Shale, blue w/thin clay layers
93	94	Shale, blue-black w/some clay, med-hard
94	163	Siltstone, black, med-hard w/occasional clay



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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

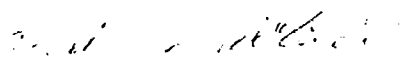
Dear Mr. Schneider:

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 a 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 neat cement with the following provisions and conditions:

- 1) Concrete shall consist of clean, hard, endurable 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 an inch in diameter.
- 2) If the well bore hole to be sealed is not dry, concrete shall be pumped from the bottom of the seal zone upward in one continuous operation to land surface.
- 3) In the event that the well bore annular 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 bridging.
- 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 be considered to apply to all wells constructed in such a manner. Please refer to these special standards on the well reports of all well constructed in this manner.

Sincerely,


WILLIAM B. MCCALL
Hydrogeologist

WBM:clh

cc: Clifton R. King, Watermaster, District #16