

August 21, 1997

WATER
RESOURCES
DEPARTMENT

ew

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

Dear Steve:

Please find attached an approved copy of the following special standard:

1. Oregon Metallurgical Corp. (start card number 95208)

If you have any questions concerning this letter, please contact me at the address or phone number listed below.

Sincerely,



Rob Carter
Well Construction Specialist

cc: Richard Edwards, Well Inspector

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Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

Oregon Water Resources Department

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before request can be considered, the following must be answered. Requests shall be submitted to the Well Construction Specialist, Water Resources Department. Requests may also be considered by the appropriate Regional Manager.

Date of request: August 20, 1997

Bonded Well Constructor (name, license and mailing address): Steve Schneider

WWC649 21881 River Rd NE, St. Paul, OR 97137

(1) Location of Well: NW 1/4 NW 1/4 of Section 19, Township 11S,
Range 3W, Linn County.

Address at well site: 530 34th Ave SW
Albany, OR

(2) Start Card Number(s): 95208

(3) Name and Address of Land Owner: Oregon Metallurgical Corporation
P.O. Box 580 Albany, OR 97321

(4) The distance to the nearest well, septic tank or drainfield (if water supply well): over
100'

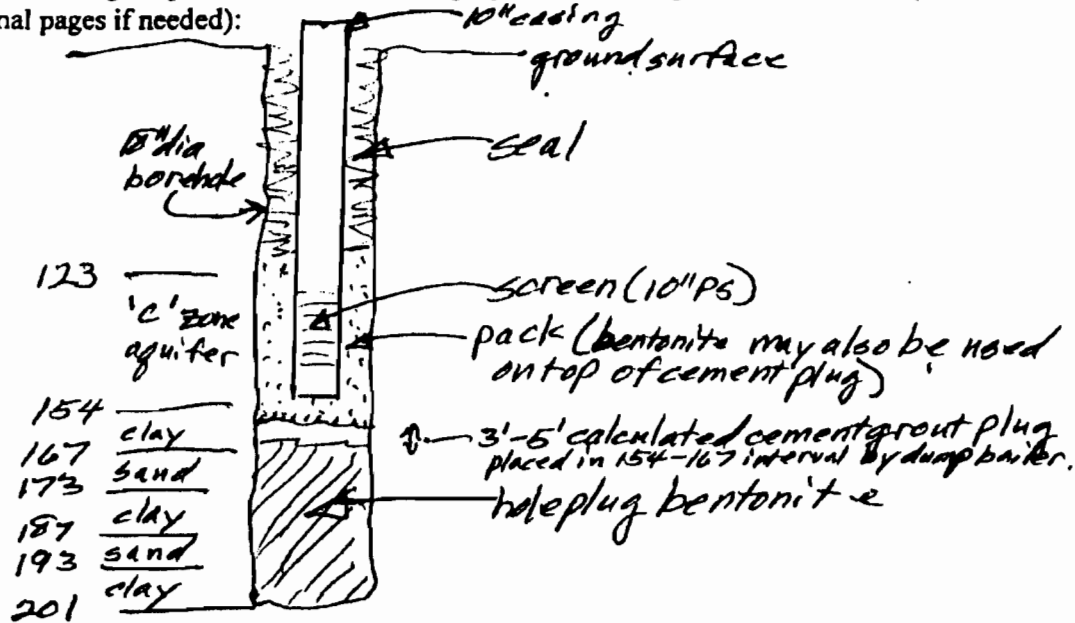
(5) The unusual conditions which necessitate this request: Want to abandon
lower part of borehole without permanently damaging
'C' zone aquifer.

(6) The proposed construction methods that the well constructor believes will be adequate for this well (attach additional pages if needed)

Use hole plug bentonite to abandon lower borehole with
a calculated amount of cement grout as a 3'-5'
cap in the 154'-167' clay interval. Rough formation log
is attached

W-a.m
remark - bottom of hole

(7) Diagram showing the pertinent features of the proposed well design and construction (attach additional pages if needed):



PLEASE NOTE:

- (1) If approved, all other phases of well construction must comply with the appropriate standards described in OAR 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing groundwater contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If verbal approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of verbal approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: Stephen J. Schneider

For Water Resources Department Use Only

Date: 8-21-97

Approved by: [Signature] Denied by: _____

Remarks: _____

OREMET - rough log

0-2	Fill
2-4	Top soil
4-6	clay Brown soft little silty
18-20	clay grey soft with some gravel ^{1 1/2} min
22-25	Gravel 1 1/2" minus Brown
25-40	Gravel 2" minus Brown
40-49	Gravel 2" minus Black with some Clay Green Blue
53-57	Clay Green sand
57-60	Clay Gray silty soft
60-61	Clay Gray silt soft with wood
61	Gravel 1" minus Black & Sand med Black
77	Some cementing
77-74	Sand 3" med
78-79	Clay Gray silty soft
79-82	Gravel 1 1/2" Black
82-84	Clay Gray with Gravel small
84-87	Clay Gray & Blue with some hard layer
87-83	Clay Brown silty
93-100	Clay stone Bluish Gray with the Gray clay
100-102	Clay Brown silty
102-106	Clay Red soft
106-110	Clay Gray soft
110-117	Clay Gray Hard silty
117-123	Clay Gray sandy & silty
123	Gravel 1 1/2" Sand Black med 15% minus
148	
148-154	Gravel 1 1/2" minus Black sand med 10% Some clay

154-167	Clay Gray some Brown Soft
167-173	Sand Black med
173-181	Clay Clay Hard Greenish Blue ^{could} be flake
181-187	Clay Greenish Blue sandy
187-190	Sand med to Fine
190-193	Sand Coarse with some Pea Gravel
193-197	Clay Gray Soft
197-201	Clay Brown Hard with Clay Gray soft