

STATE OF 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
158 12th Street NE, Salem, OR 97310. Requests may also be considered by the appropriate
Regional Manager.

Date of Request: January 23, 1996

Bonded Well Constructor (or permitted land owner): Chuck Stadel (10097)

1. Location of Well: NW 1/4 SE 1/4 of Section 10
Township 8S Range 3W MARION County
Address at well site: _____

2. Name and Address of Land Owner: SALEM HEIGHTS WATER DISTRICT
4516 SUNNYSIDE ROAD, SALEM, OREGON

3. The distance to the nearest well, septic tank or drainfield: SEE MAP OF SITE

4. The unusual conditions existing at the site: _____
MONITORING WELL FOR ASR WELL

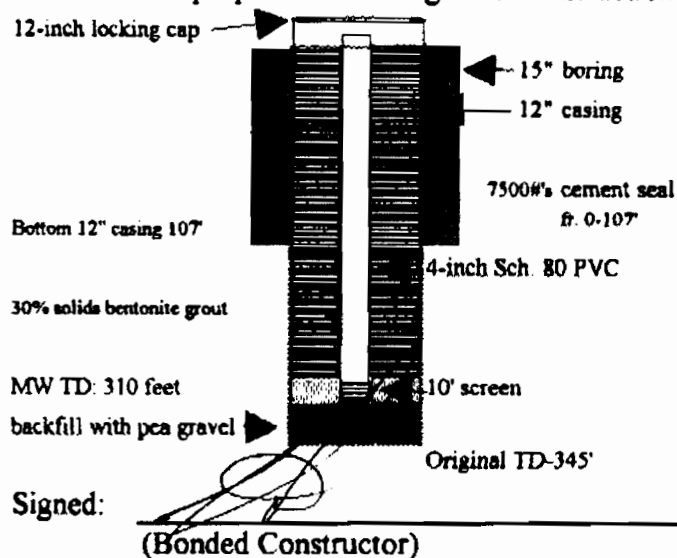
5. The proposed construction methods that the well constructor believes will be adequate
for this well (attach additional pages if needed).

Convert water well to monitoring well. See attached well log. Golder Assoc. and City
want to build MW in this well. Original log shows 12-inch casing to 107 feet. 12" casi
cemented in 15" hole with 7500 pounds of cement grout under pressure. Log indicate
that good surface seal exists from ground surface to 107 feet.

6. Start Card #:

82065

7. Diagram showing the pertinent features of the proposed well design and construction:



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 above signed shall return to the site and rectify the problem.

FOR WATER RESOURCES DEPARTMENT USE ONLY

Date: _____

Approved by: _____

Denied by: _____

Remarks: _____

revised 9/1/93

h:\projenv\96006\variance.xls

File Original and
Firm Copy with the
STATE ENGINEER,
SALEM, OREGON

OBSERVATION WELL

WATER WELL REPORT

State Well No. G - 1006

STATE OF OREGON

State Permit No. G - 898

(1) OWNER:

Name SALEM HEIGHTS WATER DISTRICT
Address 4516 SUNNYSIDE ROAD
SALEM, OREGON

(2) LOCATION OF WELL:

County MARION Danner's number, if any 10
NW 4 SE 14 Section 10 T. 8S R. 3W W.M.

Bearing and distance from section or subdivision corner
100 ft. East from the

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
abandonment, describe material and procedure in Item 13.

(4) PROPOSED USE (check):

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

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Aug ☐ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒
12" Diam. from 0 ft. to 107 ft. Gage .280
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

SIZE of perforations	In. by	In.
perforations from <u> </u> ft. to <u> </u> ft.		
perforations from <u> </u> ft. to <u> </u> ft.		
perforations from <u> </u> ft. to <u> </u> ft.		
perforations from <u> </u> ft. to <u> </u> ft.		
perforations from <u> </u> ft. to <u> </u> ft.		

(8) SCREENS:

Well screen installed ☐ Yes ☒ No

Manufacturer's Name

Model No.
Slot size Set from ft. to ft.
Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? ☒ Yes ☐ No To what depth? 108 ft.
Material used in seal—Cement grout under pressure
Did any strata contain unusable water? ☐ Yes ☒ No 7500 lbs
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:

Static level 212 ft. below land surface Date 4-9-59
Artesian pressure lbs. per square inch Date

Log Accepted by:

(Signed) T. A. Wilson Date 4-9-59 10
(Owner)

(11) WELL TESTS:

Drawdown is amount water level
lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield 920 gal./min. with 78 ft. drawdown after

950 " 90 "

Immediate Recovery to Static

Well test: gal./min. with ft. drawdown after

Artesian flow g.p.m. Date

Temperature of water: Was a chemical analysis made? ☐ Yes

(12) WELL LOG:

Depth drilled 345 ft. Log

Formation: Describe by color, character
show thickness of aquifers and the
stratum penetrated, with at least one

MATERIAL	FROM
Surface clay	0
Clay-red and yellow	3
Basalt-black-hard	50
12" casing cemented in 15" hole with 7500 lbs cement grout under pressure.	
Basalt-black-hard	107
Basalt-gray, very hard	161
Basalt-vesicular	217
Static at 123	
Basalt-black	222
Basalt-gray hard	256
Basaltic cinders, pieces of calicized basalt rock, smooth rounded basaltic rocks from 1/4" to 1 1/2" dia.	283
Basalt-black	295
Basalt-black-like soft coal	328
Clay-yellow	331
Shale-gray-soft	340

Work started Dec 8 1959 Completed Feb 1960

(13) PUMP:

Borkely

Manufacturer's Name HP 180
Type: Turbine

Well Driller's Statement:

This well was drilled under my jurisdiction and this is
true to the best of my knowledge and belief.

NAME DUFFIELD BROS (Type or print)

Address 4045 BLUFF ST. SALEM, OREGON

Driller's well number 1259

(Signed) A. H. Duffield (Well Driller)

License No. 15 Date February 5

STACO WELL SERVICES, INC.**FAX COVER LETTER**

PLEASE DELIVER THE FOLLOWING PAGES TO:

TO: Rob Carter **DATE:** January 23, 1996

FIRM: OWRD

PHONE: (503) 396-3121 x254 **FROM:** Nancy Speaker Nething

FAX: (503) 396-6233 **TITLE:** Environmental Mngr.

Number of pages including cover sheet: 4

Original being sent by mail: **Yes:** x **No:**

COMMENTS:

Request for variance

If you have any questions or comments please call me at 1-800-457-8226

IF YOU DO NOT RECEIVE ALL PAGES: PLEASE CALL

220 Academy Street Mt Angel, OR 97362 PH(503) 845-6824 FAX(503) 845-9274