

June 21, 1994

WATER
RESOURCES
DEPARTMENT

CV

Byron Stadel
STACO Well Services, Inc.
220 Academy Street
Mt. Angel, OR 97362

Dear Byron:

The Water Resource Department has received your request for special standards on the Pat Manning well located in Township 7S, Range 2W, Section 15 of Marion County.

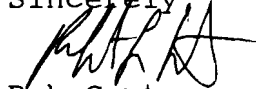
The well in question is intended to be used for irrigation. As such, the well cannot be in significant connection with surface water. You are proposing to seal the well 85 feet into a clay formation with bentonite so that the casing will be moveable if the need arises to seal off the upper gravel water and appropriate water out of the lower basalt formation.

Your request is approved with the following conditions:

1. Only bentonite chips shall be used in the sealing interval
2. A weighted line or tamping bar shall be placed in the annular space to inhibit bentonite bridging.
3. The bentonite shall be poured at a rate not to exceed 3 minutes per 50 pound sack.
4. Care will be taken not to allow dust from the bentonite to enter the annular space.

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

Sincerely,



Rob Carter
Well Construction Specialist

cc: Dave Jarrett, Watermaster
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

STATE OF OREGON
WATER RESOURCES DEPARTMENTREQUEST FOR VARIANCE OR EXCEPTION TO THE RULES AND REGULATIONS
FOR CONSTRUCTION OF A WATER WELL*.

Before approval can be considered, all of the following questions must be answered.

Questions shall be submitted to the Watermaster in the county in which the well to be constructed.

THE ORIGINAL OF THIS FORM MUST BE SIGNED BY THE WATERMASTER AND
FORWARDED TO THE SALEM OFFICE.

Date: June - 20 - 1994

Water Well Constructor: STACO WELL SERVICES

1) Purpose of Well Construction: IRRIGATION WELL

2) Location of Well: NE 1/4 NW 1/4 of Section 15, Township 7S,
Range 2W, Marion County.

Address at well site or nearest known address: LARDON RD.

(3) Name and address of Landowner: Pat Manning
6840 LARDON RD.
SALEM OR 97305

(4) The distance to the nearest well and septic drainfield: 100 ft

(5) The unusual conditions existing at the well site: N/A

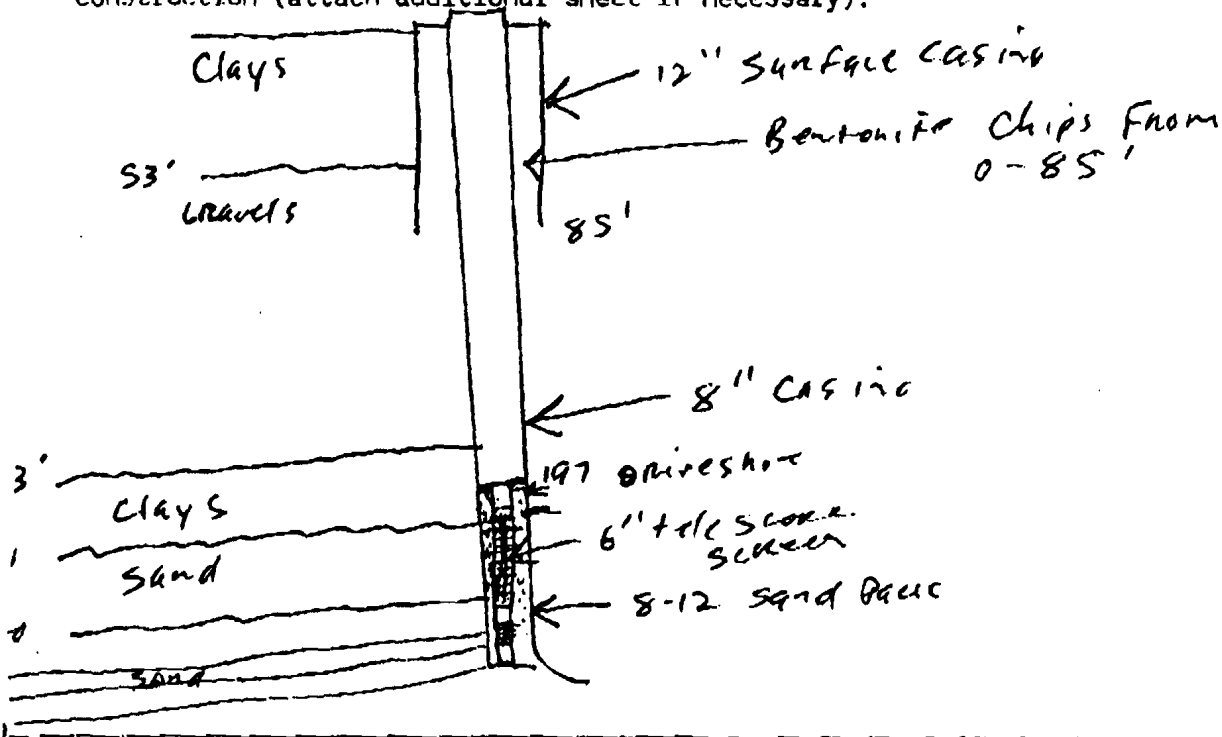
(6) The reasons that compliance to the rules and regulations for minimum standards will not result in a satisfactory well: WOULD LIKE
PERMISSION TO USE ^{BENTONITE} CHIPS FROM 85' TO
GROUND SURFACE, INSTEAD OF CEMENT FOR
IF CASING MIGHT BE ADVANCED TO BASALT IN
THE FUTURE

(* In accordance with Oregon Administrative Rules Chapter 690, Division 60,
Article 60-040)

The proposed standards that the water well constructor or landowner constructing the well believes will be adequate for his particular well:

Bentonite Chip Seal From 0-85' instead of
the Normal 20' Seal to assure surface
water does not commingle with lower waters

- 1) A diagram showing the pertinent features of the proposed well design and construction (attach additional sheet if necessary):



For Water Resources Department Use Only

Date: 6-21-94

Approved by: [Signature]

Denied by: _____

Remarks: see attached letter

NOTE:

- (1) If approved, all other phases of construction must be in compliance with State Well Construction Standards.
- (2) If it should be determined at some future date that the well, due to its construction, is offering an avenue for pollution of the ground water body, it will be necessary for you to return to the site to correct any