

October 26, 1993

WATER
RESOURCES
DEPARTMENT

en

Steve Schneider
Schneider Drilling Co.
21881 River Road NE
St. Paul, OR 97137

Dear Steve:

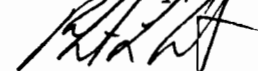
The Water Resources Department has received your special standard request on the Skylands Water Co. well located in Township 2S, Range 1E, Section 15 of Clackamas County.

Current well construction is allowing water to cascade down the bore. In addition, the well is experiencing problems with contamination, possibly associated with the cascading water. You are proposing to reconstruct the well using 8 inch inner casing. According to the attached diagram, you intend to place an upper grout seal to approximately 80 feet, a middle grout seal from approximately 180 to 200 feet and a lower grout seal from approximately 380 to 400 feet. The remainder of the annular space will be filled with a bentonite/rock slurry. The well will be completed with a screen and filter pack in the water bearing zone.

Your request is approved as submitted with the following condition: The bentonite used in the well shall be in chip form (3/8" to 3/4"). The bentonite/rock slurry shall be no more than 25% rock. During placement of the slurry, a tamping bar shall be used to prevent bridging.

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: Jerry Rodgers, Watermaster
Richard Edwards, Well Inspector



3850 Portland Rd NE
Salem, OR 97310
(503) 378-3739
FAX (503) 378-8130

*W-sm,OT
remark-repair*

sc 52449

Skylands Water Co.

9/21/93

Recommended Approach to Well Repair:

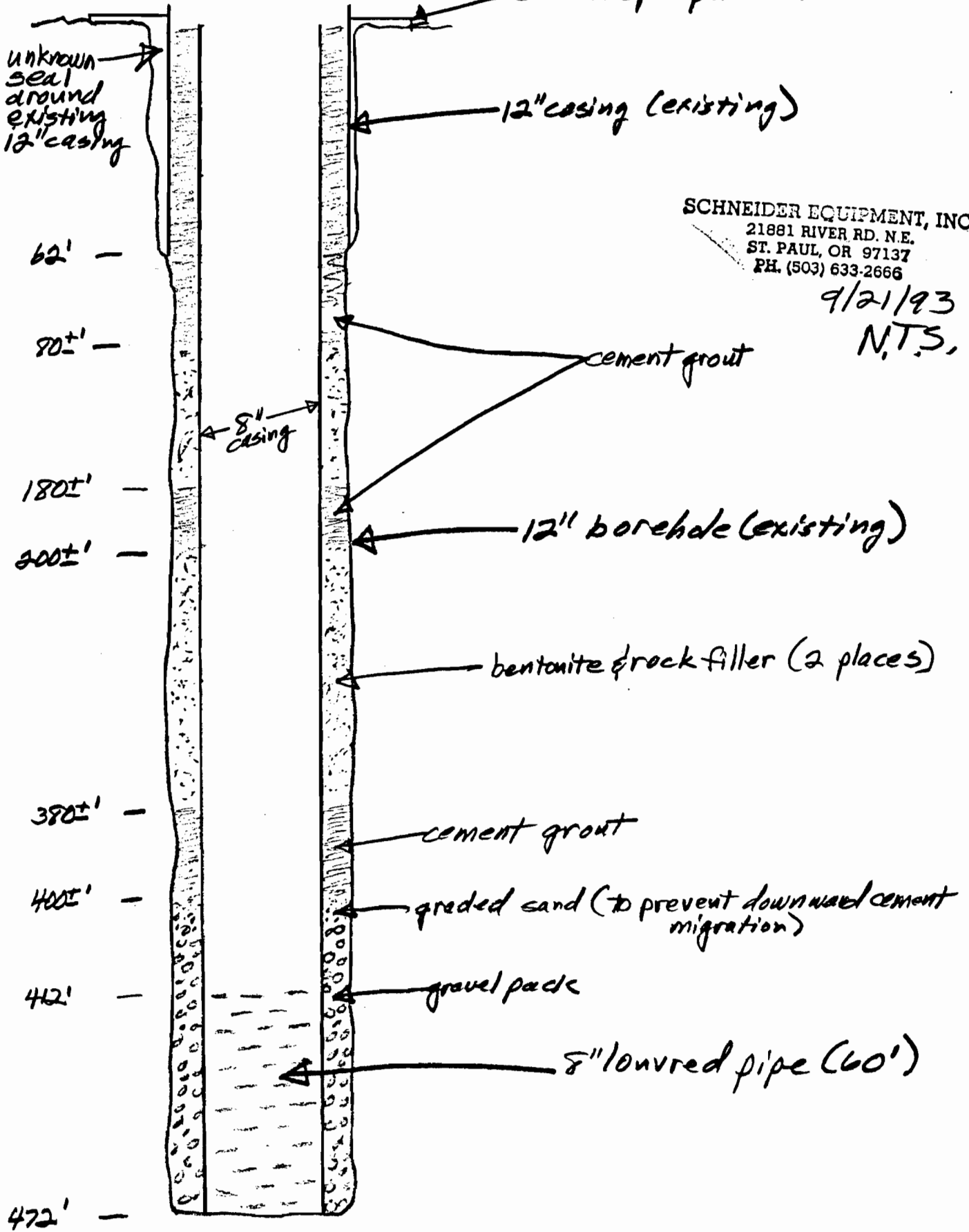
Obtain Water Resources Dept. Written Approval, then

1. Pull airline & superchlorinate,
2. Install 8" casing (hold 1/2' off bottom),
3. Bail well inside 8" casing,
4. Superchlorinate & lower 8" casing to bottom,
5. Place pack,
6. Place lower grout seal.
7. Place intermediate filler.
8. Place upper grout seal.
9. Superchlorinate & agitate.

Objectives:

- A. Disinfection
- B. Rehabilitate yield (bail any fill & superchlorination with agitation).
- C. Bring well up to state standards (eliminate commingling and provide a surface seal to solid rock) without jeopardizing water rights
- D. Eliminate potential for contamination and plugging from surface/commingling waters cascading into the well.

Skylands Water Co. - Proposed Well Repair



SCHNEIDER EQUIPMENT, INC.
21881 RIVER RD. N.E.
ST. PAUL, OR 97137
PH. (503) 633-2666

9/21/93
N.T.S.

SCHNEIDER EQUIPMENT, INC.

21881 River Road N.E.
ST. PAUL, OREGON 97137

LETTER OF TRANSMITTAL

(503) 633-2666

TO Water Resources Dept

DATE <u>10/12/93</u>	JOB NO.
ATTENTION <u>Rob Carter</u>	
RE: <u>Skylands Water Co. Well</u>	
RECEIVED	
OCT 14 1993	
WATER RESOURCES DEPT. SALEM, OREGON	

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
1			Well info
1	9/13/93		Water Well Dev. & Surreys video notes
1	9/21/93		Schneider recommended repair sketch

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19____ PRINTS RETURNED AFTER LOAN TO US

REMARKS Rob, Does the approach we have layed out and the sketched repaired well meet WRD approval? In addition, the owner wishes to deepen the well (8" diameter open rock hole) to further develop the aquifer. Any problems with that (including any complications with their water right) if that is done, provided the additional depth does not create a new cascading/commingling problem? I believe this is all straight forward but promised the owner we would have written approval prior to beginning. Hope to begin next week. Thanks for your review.

COPY TO _____ SIGNED: Steve Schneider

Waterwell Developing & Surveys
REDEVELOPING • COLOR VIDEOLOGGING • PHOTOLOGGING

Fed. ID #93-0883180

P.O. Box 1336 • Umatilla, OR 97882

(503) 567-3454

~~Ron Hans~~
Ed Brown

START CARD # _____ VIDEOLOG FIELD REPORT P.O. # _____
OWNER Skylands WELL LOCATION Erickson
Water Co. Wump
PO 451- Lake Oswego
1 97034
WELL NO. _____ TECHNICIAN _____ UNIT NO. _____ DATE _____

WELL HISTORY

Casing: 12 Perforations: _____

Drilled _____ By _____ Type _____ Perf. Type _____
Pump: Type _____ Column _____ Bowls _____ Depth of Intake _____
Remarks _____

VIDEOLOG INFORMATION

SWL 351 TWD _____ Water Visibility _____ Date 9-13-93
Camera _____ Tape Format _____ Speed _____ Make _____
Videolog _____ Revideo _____ Reruns _____ PC Log to _____ Tape to _____

REMARKS

Air line

62 FT Bottom of casing - has had seeps
145 seepage
351 Water - level -
442 Bottom of air line
455 - Top of Broken air line
470 - aquifer starts -
473 - Bottom cased in -

Originators of **SONAR-JET**®

"WELL CLEANING WITH SOUND"



Downhole Inspection

"TELEVISION AND STEREO"

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

Date Oct 22, 1951 Field No. 2S/1E-15B1
Record by 77 Office No. _____
Source of data owner's logs

1. Location: State _____ County Clackamas

Map _____
_____ 1/4 sec. T _____ N _____ E
S _____ R _____ W

2. Owner: Ferry Smith Address _____

Tenant: S. Kylands Address _____

Driller: Al. J. ... Address _____

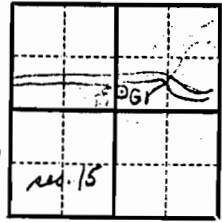
3. Topography Hill Slope

4. Elevation 685 ft. above SL (Nap)
below

5. Type: Dug, drilled driven, bored, jetted 12-19-48

6. Depth: Rept. 710' ft. Meas. _____ ft.

7. Casing: Diam. 12 in., to _____ in., Type steel
Depth 4 ft., Finish galv



8. Chief Aquifer Rock (15) From _____ ft. to _____ ft.

Others _____

9. Water level 364 ft. rept. Dec 12 1948 above TC
meas. below surface

10. Pump: Type turbine Capacity 74 G. M. 580' head

Power: Kind electric Horsepower 15

11. Yield: Flow _____ G. M., Pump 74 G. M., Meas., Rept. Est. _____

Drawdown 432 ft. after _____ hours pumping 79 G. M.

12. Use: Dom, Stock, PS., RR., Ind., Irr., Obs. _____

Adequacy, permanence not to be used for 12-15 years

13. Quality _____ Temp _____ °F.

Taste, odor, color _____ Sample YES no. 9874m
No CL 3-4

Unfit for _____

14. Remarks: (Log, Analyses, etc.) See Log file.

S Kylands Water Co.
PO Box 451
Lake Oswego, Or 97034
Dick DeChaine, Manager

Date Aug 24 1918 Subarea 110-551E

Driller Ferry Smith Location Daveys Altitude about 110 feet

Drilled by A. M. Jensen Year 12-24-18

Materials	Thickness (feet)	Depth (feet)
3/4" with Boulder gravel	36	36
Remained gravel	26	62
Broken Rock	13	75
Remained sandy Rock	30	105
Hard Rock	5	110
Broken Rock	10	120
Hard Rock	5	125
Broken Rock	10	135
Broken Rock with		
Old Bricks	4.5	140
Hard Blue Rock	10	150
Hard Blue Rock	10	200
Soft broken Rock		

12-inch, set to 63 feet, perforated to 60 feet; test pumped 60 minutes per minute for 7 hours with 75 feet of draw. Append other pertinent data. Sheet 1 of 2

Date Aug 24 1918 Subarea 110-551E

Driller Ferry Smith Location Daveys Altitude about 110 feet

Drilled by A. M. Jensen Year 12-24-18

Materials	Thickness (feet)	Depth (feet)
Light sandy gravel	20	220
Brown sandy Rock	10	230
Blue Gravel	25	255
Hard Blue Rock		
with clay shales	25	280
Blue Gravel	30	310
Remained sandy Rock	5	315
Very hard Blue Rock	30	345
Broken Rock	30	375
Hard Blue Gravel	5	380
Very coarse Broken Rock		
Coarse gravel	20	400

12-inch, set to 63 feet, perforated to 60 feet; test pumped 60 minutes per minute for 7 hours with 75 feet of draw. Append other pertinent data. Sheet 2 of 2

Sheet 2 of 2

RECEIVED
JUL 1 1958
STATE ENGINEER
SALEM, OREGON

Registration No. GR - 2424
Certificate No. GR 3897

Registration Statement

OF CLAIMANT OF RIGHT TO APPROPRIATE GROUND WATER

TO THE STATE ENGINEER OF OREGON:

I, Ferry Smith, President of SKYLANDS WATER COMPANY
of 312 Board of Trade Building, Portland County of Multnomah
(Mailing address)

State of Oregon, do hereby make application for a certificate of registration as evidence of a right to appropriate ground water.

- 1. Source from which water is withdrawn is Pump Well
(Flowing well, pump well, infiltration trench, or tunnel)
- 2. Location is: One mile south of Oswego, Oregon
(Approximate distance and direction from nearest city or town)

and is more particularly described as follows: 2250 feet west of 300 feet North from E 1/4 Corner Section 15

(a) In the Skylands of Oswego subdivision plat of which is attached
(Give distance and bearing to corner of section or other legal subdivision)

being within NW 1/4 of SE 1/4 of Sec. 15, Twp. 25, Rge. 1 E. WFM
(Smallest legal subdivision) (N. or S.) (E. or W.)

or (b) within limits of recorded platted property, town or city:
in Tract A Block Block of The Skylands of Oswego
(Name of plat or addition)

County of Clackamas
(If within city or town, give name)

3. Construction Work was begun on October 15, 1948 and was completed on December 24, 1948
(Date) (Date)
and the ground water claimed was first used for the purposes set out below on June 1, 1951
(Date)

since which time the water has been used continuously
(Continuously or intermittently)
from June 1951 to July 1951
(Date) (Date)

4. Quantity of water claimed and used is 100 gallons per minute; 100 acre feet per year.

5. Purpose or Purposes for which water is used: Domestic use in excess of 15,000 g.p.d.
(Domestic, irrigation, municipal, manufacturing, industrial, etc.)

6. Description of Well: Depth 470 feet Type Drilled
(Dug or drilled)
diameter 12 inches Elevation of ground surface 685 feet, mean sea level.
(As near as known)
Depth to water table 364 feet

7. Capacity of Well: 100 g.p.m. with 5 feet draw-down.

Locate well and acreage of irrigated land on plat.

Scale: 2" = 1 Mile

STATE OF OREGON

County of MULTNOMAH } ss.

I, Ferry Smith, being first duly sworn, do hereby certify that I have read the foregoing Registration Statement and that all of the items therein contained are true to the best of my knowledge and belief.

Ferry Smith, President
 SKYLANDS WATER COMPANY

(Signature of Registrant)

Subscribed and sworn to before me this 10 day of July, 1958

My commission expires MY COMMISSION EXPIRES APRIL 22, 1960

[Signature]
 (Notary Public)

(SEAL)

CERTIFICATE OF REGISTRATION

STATE OF OREGON } ss.
 County of Marion

This is to certify that the foregoing Registration Statement was received in the office of the State Engineer on the 11th day of July, 1958, at 8:00 o'clock A. M. and has been duly recorded in said office in Book No. 16 of Registration Statements on page GR- 3897

Witness my hand this 15th day of February, 1960

[Signature]
 (State Engineer)

\$20.00

By _____ (Deputy)

GR. 3897

