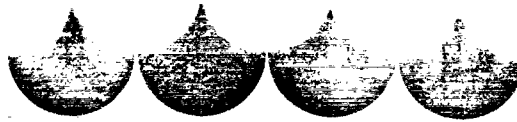


WELL DRILLING
IRRIGATION
CONTROL SYSTEMS



SCHNEIDER EQUIPMENT, INC.

PUMPS
ENGINEERED WATER SYSTEMS
SALES AND SERVICE

21881 River Road N.E. St. Paul, Oregon 97137 (503) 633-2666

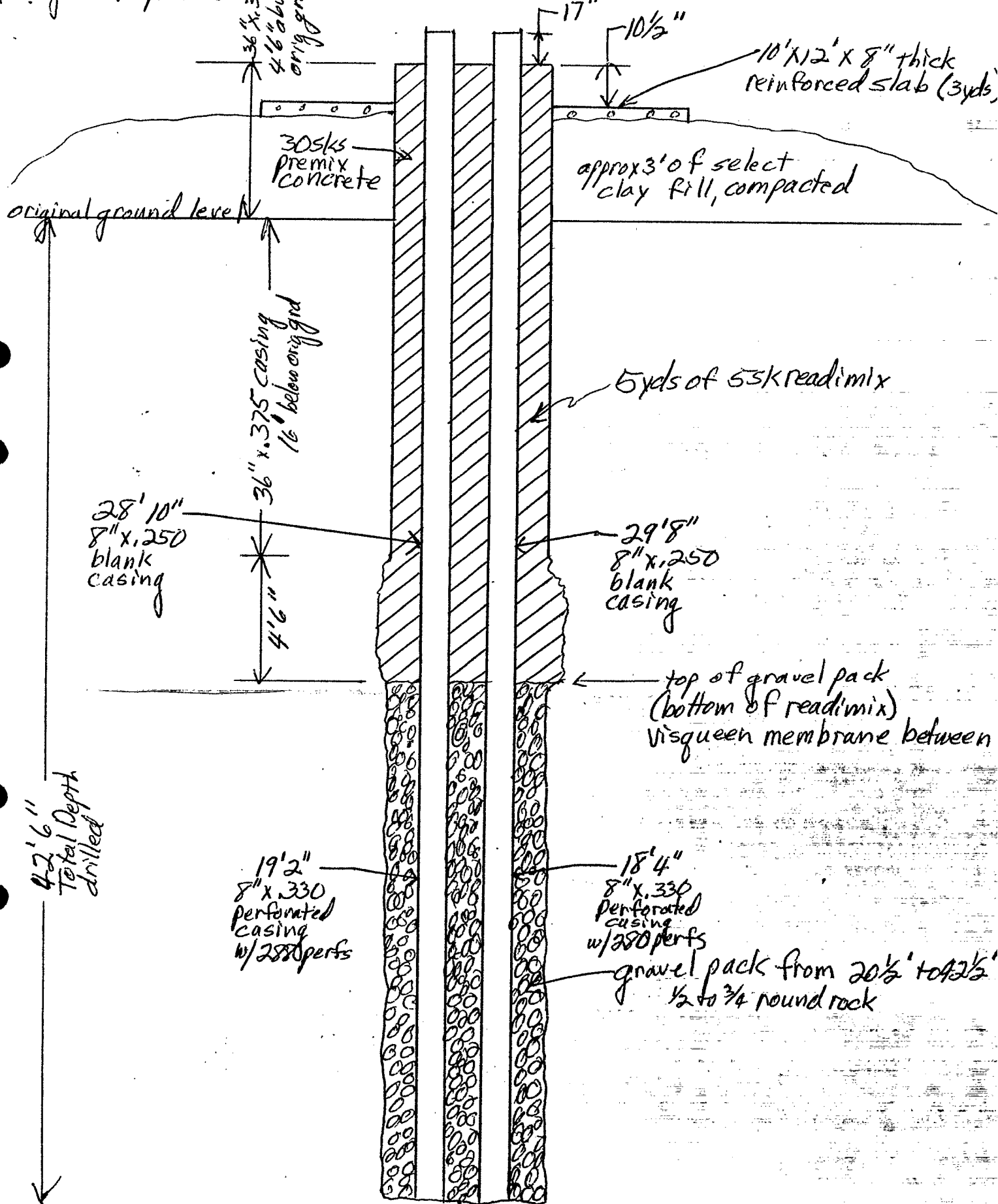
RIVERGREEN PROPERTIES

NESTUCCA BEND WELL NO. 3A WELL TEST

Static 21'0"

Date of test 10-31-78

Time of Day	GPM	Pumping level	Remarks
11:10	60	21'0"	Started pump
11:15	60	23'6"	
11:25	60	26'3"	
12:00	60	29'10"	
12:20	60	34'9"	Restricted pump
12:32	52	39'4"	
12:40	52	39'3"	Restricted pump
12:50	49	39'3"	Restricted pump
1:00	47	39'3"	
1:10	47	39'3"	
1:35	47	39'3"	Restricted pump
1:45	46	39'3"	Restricted pump
2:30	44	39'3"	Restricted pump
3:00	43	39'3"	Restricted pump
3:30	41	39'3"	
4:00	41	39'3"	
4:10	41	39'3"	Shut off pump
4:11	-	36'7"	
4:12	-	34'7"	
4:17	-	29'0"	
4:22	-	24'1"	
4:27	-	23'9"	
4:32	-	23'6"	
4:40	-	23'3"	End of recovery



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SCHNEIDER EQUIPMENT, INC.

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SALES AND SERVICE

21881 River Road N.E. St. Paul, Oregon 97137 (503) 633-2666

October 12, 1978

Department of Protective Health Services
P. O. Box 231
Portland, Oregon 97207

Attention: Al Smythe

Dear Sirs:

Re: Rivergreen Properties Well at Nestucca Bend

We now have a well 36 $\frac{1}{2}$ feet deep about 40 feet east of #1 well which was completed with 8" casing 55 feet deep and was dry after sealing. The new well has 34 ft. 8 in. of 36 inch casing (6 ft. 6 in. above ground and 27 ft. 6 in. below ground level) and was test pumped at 55 gpm with a pumping level of 30 ft. 1 in. on October 2, 1978.

We would like approval to possibly drill deeper and to set casing or casings and to fill with gravel to 20 ft. Water would be pumped below 20 ft. if it is above such depth, the well would be sealed with ready mix and the 36 in. casing would be pulled out.

We would leave the casing approximately 25 ft. above the bottom of the seal and after moving the rig out of the way we or the customer would fill around the casing to 22 or 23 ft. above the bottom of the seal with a slope approximately 5 to 1 to help drain the water away from the well area.

This would conform with our telephone conversation of October 11, 1978, and we ask for your approval to complete the well in this manner.

After completion we understand Jack Madison will send the final paper work.

Sincerely yours,

Milo O. Schneider

MOS/rs



Department of Human Resources

HEALTH DIVISION

1400 S.W. 5th AVENUE, PORTLAND, OREGON 97201 PHONE
(EMERGENCY PHONE (503) 229-5599

229-5554

October 12, 1978

Mr. Milo O. Schneider
21881 River Road N. E.
St. Paul, OR 97137

Re: W - Nestucca Bend

Dear Mr. Schneider:

This will confirm that your proposal for completing the well (#3-a) presently under construction at the Nestucca Bend subdivision in accordance with the procedures set forth in your letter of October 12, 1978, are hereby approved.

When the construction is completed, please provide us with copies of the well driller's log, the as-built drawing of the completed well, the pumping test report, particulars on the well pump, details of the well house, and the results of the chemical and bacteriological analysis.

Very truly yours,

A. D. Smythe, P.E.
Manager, Plan Review Section

ADS:hh

cc: Tillamook County Health Department
Jack H. Madison, 6530 Long Prairie Rd, Tillamook
River Green Properties, 264 Lancaster Drive, S.E., Salem

AN EQUAL OPPORTUNITY EMPLOYER

WELL DRILLING
IRRIGATION
CONTROL SYSTEMS

SCHNEIDER EQUIPMENT, INC.

PUMPS
ENGINEERED WATER SYSTEMS
SALES AND SERVICE

21881 River Road N.E. St. Paul, Oregon 97137 (503) 633-2666

October 25, 1978

Water Resources Department
555 13th Street NE
Salem, Oregon 97310

Attention: Bill Mc Call

Dear Bill,

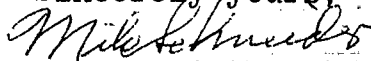
Re: Rivergreen Properties Well at Nestucca Bend
Well #3A and our letter of 10-12-78 and
Al Smythe letter of 10-12-78

At present the well was drilled to 42' with 36" hole after which we set 2 - 8" casings from a +6' to 42' spaced 9" apart and filled with $\frac{1}{2}$ to $\frac{3}{4}$ " gravel. Ready mix was then poured around the 8" casings and inside the 36" casing.

We then proceeded to pull the 36" casing out, and it came out to 16' (bottom of casing below ground) and stopped. We could not get it to move again, and the cement is set.

We would like to have approval for use to cut the 36" casing off at ground level and bulldoze the dirt up around the casing to 22 or 23' above the bottom of seal as per our letters of October 12, 1978.

Sincerely yours,



Milo O. Schneider

MOS/rs
Enc.



STATE OF OREGON

INTEROFFICE MEMO

Plan Review

229-5554

DEPT.

TELEPHONE

TO: File

DATE: October 26, 1978

FROM: A. D. Smythe

A. D. Smythe

SUBJECT: W - Nestucca Bend

Milo Schnieder, well driller, came in to discuss the status of the gravel-pack well he is putting in at Nestucca Bend. He said that they were not able to completely extract the 36" casing after they installed the redimix seal. He said that after the gravel-pack was placed around the permanent casings (two 8" pipes), the redimix was introduced on top of the gravel-pack (20'-6" depth).

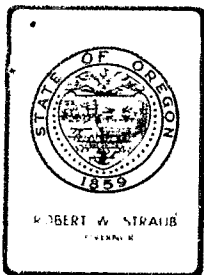
He said the 36" casing was raised 4'-6", but then it stuck. He said that by the time they got the jacks out to the site, the concrete had set up and they were not able to budge the 36" casing. He said that the two 8" permanent casings are 9" apart and are encased in concrete 36" in diameter from the surface down to a depth of 20'-6" below ground level.

I called Bil McCall at the Water Resources Department, and we both agreed that this constituted an effective annular seal.

I told Schnieder that I would send him a letter approving the construction.

I drew a sketch of the well construction which is attached.

ADS/Is



Department of Human Resources

HEALTH DIVISION

1400 S.W. 5th AVENUE, PORTLAND, OREGON 97201 PHONE 229-5554

October 26, 1978

Mr. Milo O. Schneider
21881 River Road, NE
St. Paul, OR 97137

RE: W - Nestucca Bend, Well 3-A

Dear Mr. Schneider:

Thank you for coming in to my office on 10-25-78, to explain how the annular well seal was placed around the two 8" well casings installed in well #3-A at Nestucca Bend Subdivision in Tillamook County.

I discussed this matter with Bill McCall of the Water Resources Board and we both agreed that the redimix concrete seal which completely fills the 36" casing and encases the two 8" well casings, constitutes an effective annular seal.

Accordingly, this construction is hereby approved.

I would recommend that you leave the 36" casing as it is at present (4.5' above existing ground) so that when the area around the well is filled and the well slab is poured, the top of the 36" casing will be above the slab. The two 8" well casings must be 18" above the slab.

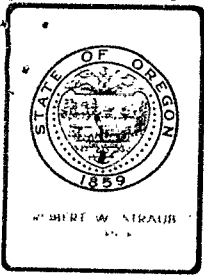
Very truly yours,

A. D. Smythe, P.E.
Manager, Plan Review

ADS/Is

cc: Bill McCall
Regional Office, Tillamook
Tillamook County Health Department

AN EQUAL OPPORTUNITY EMPLOYER



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8455

October 27, 1978


Milo Schneider
21891 River Road N.E.
St. Paul, Oregon 97137

Dear Mr. Schneider:

This is to acknowledge receipt of your request for special standards for the construction of the above referenced well reportedly located in the SW $\frac{1}{4}$ of Section 31, Township 3 South, Range 9 West, W.M., Tillamook County, Oregon. Your letter, and an attached as-built drawing of the well, report that a 36-inch diameter drillhole was constructed to a depth of 42 feet using 36-inch diameter well casing. Thereafter, two 8-inch diameter production pipes were reportedly installed in the well with gravel-pack material placed in the drillhole between the 36-inch surface casing and the two production pipes from the total depth of the well at 42 feet to 20 $\frac{1}{2}$ feet below land surface. Ready-mix concrete was then reportedly installed in the annular space of the well above the gravel-pack material between the production pipes and the 36-inch casing as it was pulled. Your letter reports, however, that you were unable to pull the oversize casing from the drillhole above a depth of 16 feet and, therefore, request permission to leave the 36-inch casing in the drillhole to a depth of 16 feet, cut it off at land surface, and place soil material surrounding the two production casings to 22 or 23 feet above the bottom of the lowermost annular concrete seal at 20 $\frac{1}{2}$ feet below present land surface.

You are hereby granted special standards to construct the subject well as described above.

Sincerely,


WILLIAM B. MCCALL
Hydrogeologist

WBM:c1h

WELL DRILLING
IRRIGATION
CONTROL SYSTEMS

SCHNEIDER EQUIPMENT, INC.

PUMPS
ENGINEERED WATER SYSTEMS
SALES AND SERVICE

21881 River Road N.E. St. Paul, Oregon 97137 (503) 633-2666

October 25, 1978

Department of Protective Health Services
P. O. Box 231
Portland, Oregon 97207

Attention: Al Smythe

Dear Sir:

Re: Rivergreen Properties Well at Nestucca Bend
Well #3A and our letter of 10-12-78 and
Al Smythe letter of 10-12-78

At present the well was drilled to 42' with 36" hole after which we set 2 - 8" casings from a +6' to 42' spaced 9" apart and filled with $\frac{1}{2}$ to $\frac{3}{4}$ gravel. Ready mix was then poured around the 8" casings and inside the 36" casing.

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We would like to have approval for use to cut the 36" casing off at ground level and bulldoze the dirt up around the casing to 22 or 23' above the bottom of seal as per our letters of October 12, 1978.

Sincerely yours,

Milo O. Schneider
Milo O. Schneider

MOS/rs

Enc.

CC - Water Resources Department
Att'n: Bill Mc Call