



Industrial Forestry Association

Material	From	To
Top soil, brown sandy	0	9
Sand, brown coarse w/ some gravel	9	12
Sand, brown coarse w/ gravel	12	16
Sand, brown coarse w/ gravel up to 3"	16	17
Gravel & sand up to 3"	17	21
Gravel & sand up to 4"	21	25
Gravel & sand up to 6"	25	28
Boulders up to 2'6"	28	31
Boulders up to 1'6"	31	34
Boulders w/ coarse sand & gravel	34	36
Sand & gravel w/ some boulders	36	50
Gravel & boulders	50	62
Gravel w/ some brown clay	62	63
Clay, brown & gray mixed w/ some gravel	63	65
Clay, gray	65	72
Clay, gray w/ coarse sand & pea gravel imbedded	72	82
Gravel, sand & clay conglomerate	82	85
Gravel & sand up to 6" w/ dry sandy clay	85	86
Gravel & sand, coarse	86	93'6"
Clay, gray fine sandy	93'6"	98
Gravel up to 4" w/ some clay, gray	98	100
Sand, coarse black & pea gravel	100	103
Sand, coarse w/ clay, green	103	104
Sand, black coarse w/ pea gravel	104	108
Clay, green	108	109
Sand, black coarse	109	110
Clay, gray	110	111
Sand, gray fine w/ wood compacted	111	112'6"
Sand, gray med fine w/ wood soft	112'6"	113
Clay, gray	113	117
Clay, blue gray fine sandy	117	118
Clay, gray fine sandy w/ wood & pea gravel	118	122
Sandstone, black	122	122'6"
Clay, gray hard	122'6"	128
Clay, green hard	128	136
Clay, gray hard dry	136	140
Clay, blue hard dry	140	149
Clay, green hard dry	149	151
Clay, green fine sandy moist	151	154
Clay, gray fine sandy	154	157
Clay, gray fine sandy w/ wood	157	158
Clay, gray med sand w/ small pea gravel	158	159
Sand, medium coarse w/ some clay, gray	159	160
Clay, gray soft medium sandy dry	160	165
Clay, medium sandy gray w/ wood & some pea gravel	165	171
Clay, green soft medium sand w/ pea gravel	171	172
Sand, black medium-coarse	172	174
Clay, green hard	174	184
Clay, gray hard	184	188
Clay, green fine sandy	188	192
Clay, blue green hard	192	194
Clay, green medium coarse sandy	194	198
Sand, medium coarse w/ small pea gravel & clay	198	204
Clay, gray fine sandy	204	208

Industrial Forestry Association

Material	From	To
Clay, greenish gray	208	214
Sand, black fine	214	219
Clay, green hard flakey	219	222
Clay, green hard & sandstone, fine	222	223
Clay, green hard flakey	223	227
Clay, gray fine sandy	227	233
Clay, gray hard flakey	233	234
Sandstone, black fine	234	235
Sand, black medium	235	239'6"
Clay, gray hard	239'6"	240
Clay, grayish brown hard	240	242
Clay, grayish brown softer	242	243
Clay, green silty	243	245
Sand, black cemented	245	247
Sand, black medium, fine loose	247	249
Clay, brown	249	250'6"
Clay, gray silty fine sandy	250'6"	257
Clay, gray silty soft	257	265
Clay, gray fine sandy dry	265	280
Clay, brown soft	280	281
Sand, black medium w/ wood	281	287
Clay, green hard	287	288
Sand, medium coarse	288	290
Clay, brown soft dry	290	297
Sand, black fine	297	303
Sand, black medium w/ wood & pea gravel	303	304
Sand, coarse & small pea gravel	304	304'6"
Pea gravel & sand, coarse	304'6"	308
Clay, gray	308	325

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

September 21, 1978

Industrial Forestry Association  
1887 North Holly  
Canby, Oregon 97013

Re: Test of New Water Well

Dear Sirs,

On August 30, 1978 we performed a pumping test on the new water well being constructed for your company in Section 28, Township 3 South, Range 1 East, Clackamas County Oregon. This is a report of the results found. A well log will be forwarded as soon as final sealing is completed.

### Background:

Prior to the continuous run test, the well was pumped on a sporadic basis (i.e. surged and rawhided to develop) for five days as follows:

August 24 - 8 hrs. of sporadic running  
August 25 - 9 hrs. of sporadic running  
August 26 - 8½ hrs. of sporadic running  
August 28 - 9½ hrs. of sporadic running  
August 29 - 9½ hrs. of sporadic running

The static level prior to August 24 was 69'. The static level at 6:45 a.m. on August 30 was 90'.

### Test Data:

<u>Time of Day</u>	<u>Pumping Level</u>	<u>GPM</u>	<u>Total Gals. Pumped to Day</u>	<u>Avg. GPM</u>	<u>Remarks</u>
6:45 a.m.	90'	---	---	---	measured static
6:53 a.m.	---	---	---	---	started pump
7:05 a.m.	112'	3100	37,200	3100	cloudy w/some sand
7:18 a.m.	170'	2900	74,900	2996	cloudy w/some sand
7:45 a.m.	*	2700	147,800	2842	red. spd cloudy w/some sand

Industrial Forestry Association  
 Test Data continued

September 21, 1978

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Time of Day	Pumping Level	GPM	Total Gals. Pumped to Day	Avg. GPM	Remarks
8:15 a.m.	*	2600	225,800	2753	cloudy w/little sand
8:45 a.m.	*	2500	300,800	2685	clear
9:15 a.m.	*	2500	375,800	2646	clear
9:45 a.m.	*	2500	450,800	2620	clear
10:15 a.m.	*	2400	522,800	2588	clear
10:45 a.m.	*	2400	594,800	2563	clear
10:48 a.m.	*	2400	602,000	2561	clear, Eng spd up
11:15 a.m.	*	2350	665,450	2539	clear
11:45 a.m.	*	2300	734,450	2515	clear
12:15 p.m.	*	2300	803,450	2495	clear w/little sand
12:45 p.m.	*	2250	870,950	2474	clear w/little sand
1:00 p.m.	*	2250	904,700	2465	clear w/little sand & ai
1:45 p.m.	*	2250	1,005,950	2441	clear w/little sand & ai
2:00 p.m.	*	2200	1,038,950	2433	clear w/little sand & ai
2:20 p.m.	*	2100	1,080,950	2418	red. spd clear w/little sand & ai
2:50 p.m.	*	2100	1,143,950	2398	red. spd clear w/little sand & ai
3:15 p.m.	*	2050	1,195,200	2380	clear w/little sand & ai
3:40 p.m.	*	2050	1,246,450	2365	red. spd clear w/little sand & ai
4:10 p.m.	*	2050	1,307,950	2348	clear w/little sand & ai
4:35 p.m.	*	2050	1,359,200	2335	clear w/little sand & ai
5:00 p.m.	*	2000	1,409,200	2321	clear w/little sand & ai
5:30 p.m.	*	1950	1,467,700	2304	red spd clear w/little sand & ai
6:00 p.m.	*	1950	1,526,200	2288	clear w/little sand & ai
6:30 p.m.	*	1900	1,583,200	2271	clear w/little sand & ai
7:00 p.m.	*	1900	1,640,200	2256	clear w/little sand & ai
7:15 p.m.	*	1875	1,668,325	2248	red spd clear w/little sand & ai
7:20 p.m.	*	1875	1,677,700	2245	clear w/little sand & ai
7:35 p.m.	*	1750	1,703,950	2236	red spd clear w/trace sand
7:45 p.m.	*	1800	1,721,950	2230	clear w/trace sand
7:50 p.m.	*	1800	1,730,950	2227	clear w/trace sand
7:55 p.m.	181"	1600	1,738,950	2223	clear w/trace sand, red sp
8:00 p.m.	181"	1600	1,746,950	2219	clear w/trace sand
8:05 p.m.	179" 7"	1600	1,754,950	2215	clear
8:10 p.m.	179" 3"	1600	1,762,950	2211	clear
8:15 p.m.	179" 1"	1625	1,771,075	2208	crystal clear
8:20 p.m.	179"	1625	1,779,200	2204	crystal clear
8:25 p.m.	179"	1625	1,787,325	2201	crystal clear
8:30 p.m.	172"	1375	1,794,200	2196	crystal clear, red spd
8:35 p.m.	171" 5"	1375	1,801,075	2191	crystal clear
8:40 p.m.	170" 9"	1375	1,807,950	2186	crystal clear
8:45 p.m.	170" 4"	1375	1,814,825	2181	crystal clear
8:50 p.m.	170"	1375	1,821,700	2176	crystal clear
8:55 p.m.	169" 9"	1400	1,828,700	2171	crystal clear
9:00 p.m.	169" 7"	1400	1,835,700	2167	crystal clear



Industrial Forestry Association  
 Test Data continued

September 21, 1978  
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Time of Day	Pumping Level	GPM	Total Gals. Pumped to Day	Avg. GPM	Remarks
9:05 p.m.	169' 5"	1400	1,842,700	2162	crystal clear
9:10 p.m.	169' 5"	1400	1,849,700	2158	crystal clear
9:15 p.m.	169' 5"	1400	1,856,700	2153	crystal clear
9:40 p.m.	157' 9"	1025	1,882,325	2122	crystal clear, red, spd
10:00 p.m.	155' 2"	1025	1,902,825	2097	crystal clear
10:05 p.m.	154' 10"	1075	1,908,200	2092	crystal clear
10:15 p.m.	154' 7"	1075	1,918,950	2081	crystal clear
10:20 p.m.	154' 3"	1075	1,924,325	2075	crystal clear
10:25 p.m.	154' 2"	1075	1,929,700	2070	crystal clear
10:30 p.m.	153' 10"	1075	1,935,075	2065	crystal clear
10:35 p.m.	153' 8"	1075	1,940,450	2059	crystal clear
10:40 p.m.	153' 8"	1075	1,945,825	2054	crystal clear
10:45 p.m.	153' 8"	1075	1,951,200	2049	crystal clear
10:50 p.m.	153' 8"	1075	1,956,575	2044	crystal clear, stopped pump
10:51 p.m.	135' 3"	0	-----	-----	-----
10:52 p.m.	133' 7"	-----	-----	-----	-----
10:53 p.m.	132' 3"	-----	-----	-----	-----
10:54 p.m.	131' 2"	-----	-----	-----	-----
10:55 p.m.	130' 3"	-----	-----	-----	-----
11:00 p.m.	126' 1"	-----	-----	-----	-----
11:05 p.m.	123' 9"	-----	-----	-----	-----
11:10 p.m.	122' 0"	-----	-----	-----	-----
11:15 p.m.	120' 6"	-----	-----	-----	-----

Note: Static level 72 hrs. later was 71'.

\* Pumping level was below bowl assembly which was at 190'.

Discussion

The above data indicates that a semi-perched water zone exists. This is evidenced by the slow recovery rate and the steadily decreasing pumping rates over 1600 gpm. Attached is a curve showing the three final "stabilized" data points obtained. It appears that a constant long term pumping rate of approximately 1500 gpm may be possible.

If there are any questions, please do not hesitate to contact us.

Sincerely,

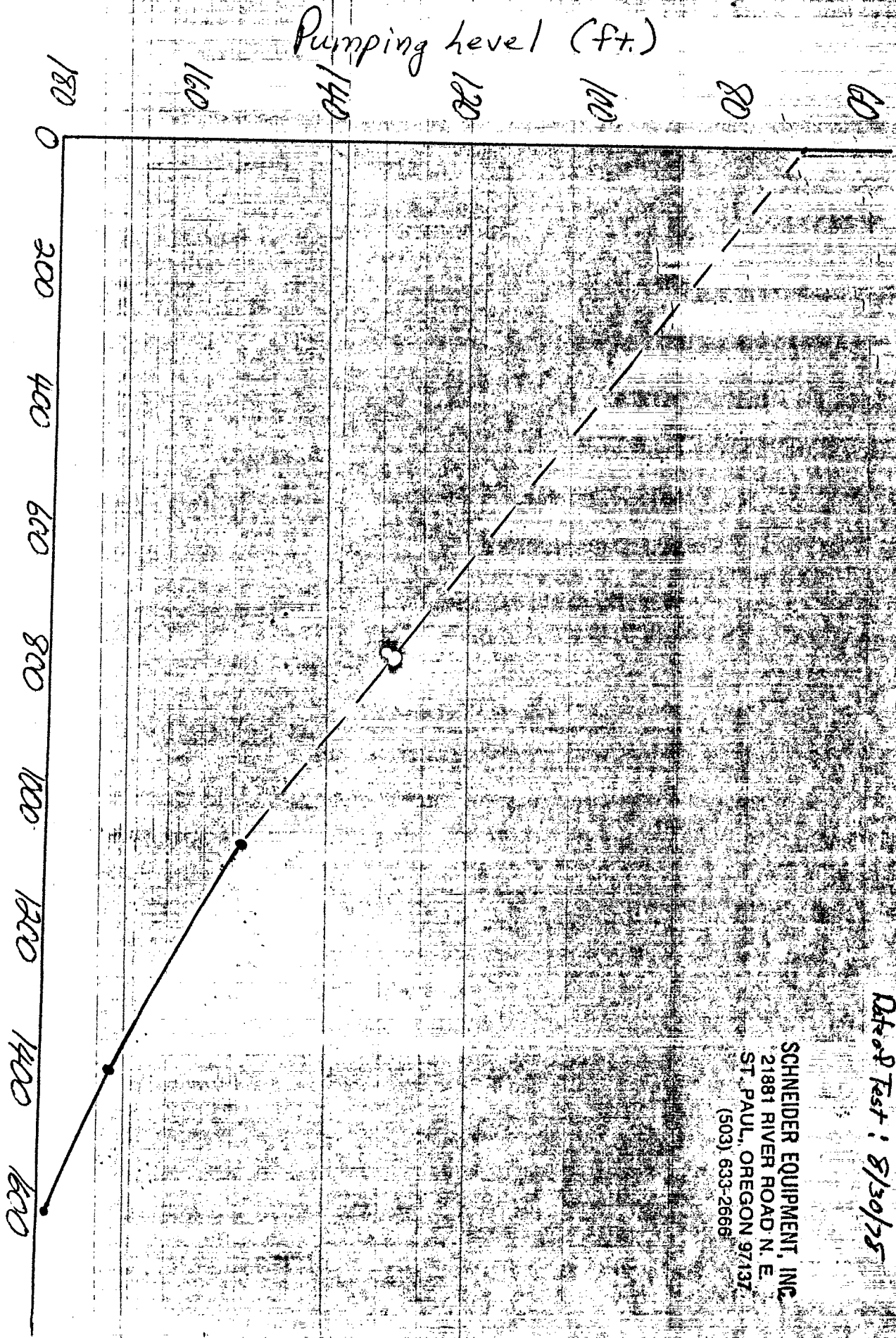
*Stephen J. Schneider*  
 Stephen J. Schneider  
 General Manager

SJS/pd

Industrial Forestry Association  
Well Test

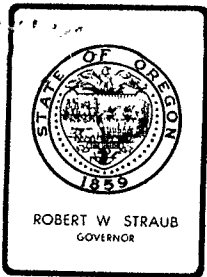
Date of Test: 8/30/75

SCHNEIDER EQUIPMENT, INC.  
21881 RIVER ROAD N. E.  
ST. PAUL, OREGON 97137  
(503) 633-2666



Gallons Per Minute (gpm)

Pumping level (ft.)



# Water Resources Department

MILL CREEK OFFICE PARK

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

PHONE 378-8455

August 30, 1978

Milo Schneider  
21891 River Rd. NE  
St. Paul, OR 97137

Dear Mr. Schneider:

This is to acknowledge receipt of your request for special standards for the construction of the Industrial Forestry Association well located in Section 28, T 3S, R 1E, WM., Clackamas County, Oregon. Your letter requests permission to construct an annular seal, with concrete, between a 36-inch oversize drillhole and the permanent well casing within the well at the following depths:

<u>Seal</u>	<u>Depth below LSD</u>
5-foot concrete seal	63 to 82 feet (clay strata)
25-foot concrete seal	25 feet (sand and gravel)

Your letter requests special permission to fill the annular space of the well between the upper and lower proposed seal areas with gravel as the 36-inch diameter casing is pulled.

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

Sincerely,

William B. McCall  
Hydrogeologist

WBM:kas