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WATER RESOURCES DEPT
SALEM, OREGON

Attachment 4
Well Logs and New Well Construction Design
Application for Permit Amendment - Permit G-11831

T 11112

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MULT 2740

Well 1 (Cramer Hall) []
Permit G-11831

NOTICE TO WATER WELL CONTRACTOR
The original and first copy
of this report are to be
filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

DEC 22 1965
WATER WELL REPORT
STATE ENGINEER
STATE OF OREGON
(Please type or print)

State Well No. 1/1-3 E(6)
State Permit No.

(1) OWNER:

Name PORTLAND STATE COLLEGE
Address 724 S.W. HARRISON
PORTLAND, ORE.

(2) LOCATION OF WELL:

County MULT. Driller's well number 4215
SW 1/4 NW 1/4 Section 3 T. 15 R. 1E W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New Well [x] Deepening [] Reconditioning [] Abandon []
Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal []
Irrigation [] Test Well [x] Other []
Rotary [] Driven []
Cable [x] Jetted []
Dug [] Bored []

(5) TYPE OF WELL:

(6) CASING INSTALLED:

12" Diam. from 0 ft. to 100 ft. Gage 330
12" Diam. from 172 ft. to 188 ft. Gage 330
12" Diam. from 196 ft. to 210 ft. Gage 330

(7) PERFORATIONS:

Perforated? [] Yes [x] No

Type of perforator used

Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:

Well screen installed? [x] Yes [] No

Manufacturer's Name EDWARD E. JOHNSON
STAINLESS STEEL Model No.
12" Slot size 60 Set from 160 ft. to 172 ft.
Diam. 12" Slot size 60 Set from 188 ft. to 196 ft.

(9) CONSTRUCTION:

Well seal—Material used in seal CEMENT
Depth of seal 20 ft. Was a packer used? YES
Diameter of well bore to bottom of seal 20 in.
Were any loose strata cemented off? [] Yes [x] No Depth
Was a drive shoe used? [] Yes [x] No
Was well gravel packed? [x] Yes [] No Size of gravel: 3/8-1/8
Gravel placed from 125 ft. to 210 ft.
Did any strata contain unusable water? [] Yes [x] No
Type of water? depth of strata
Method of sealing strata off

(10) WATER LEVELS:

Static level 144 ft. below land surface Date 11/18/65
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? [x] Yes [] No If yes, by whom? STRASSER
Yield: 510 gal./min. with 24 ft. drawdown after 8 hrs.
" 365 " " 16 " " 2 "
" 218 " " 10 " " 2 "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 54° Was a chemical analysis made? [x] Yes [] No

(12) WELL LOG:

Diameter of well below casing

Depth drilled 230 ft. Depth of completed well 210 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
BASEMENT	0	19
HARD PACKED SAND AND SILT	19	73
SANDY SILT	73	104
CEMENTED GRAVEL	104	145
SAND AND GRAVEL (TIGHT)	145	159
SAND AND GRAVEL (LOOSE)	159	177
CEMENTED GRAVEL	177	181
SAND AND GRAVEL	181	197
SAND, GRAVEL, AND CLAY	197	212
SHALE AND BOULDERS	212	221
BROWN ROCK	221	230

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SALEM, OREGON

Work started MAY 11, 1964 Completed NOV 24 1965
Date well drilling machine moved off of well NOV 24 1965

(13) PUMP:

Manufacturer's Name
Type: H.P.

Water Well Contractor's Certification:

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

NAME R.J. STRASSER DRILLING CO
(Person, firm or corporation) (Type or print)
Address 8110 SE SUNSET LAKE PORTLAND, OR
Drilling Machine Operator's License No. 54
[Signed] Robert J. Strasser
(Water Well Contractor)
Contractor's License No. 10 Date DEC 20 1965

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 of this report are to be
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 within 30 days from the date
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WATER WELL REPORT
 STATE OF OREGON
 (Please type or print)
 (Do not write above this line)

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SEP 19 1968

STATE ENGINEER
 SALEM OREGON

Well 3 (Lincoln Hall)
 Permit G-11831

MULT
2750

Well No. 1/1-4 H
 State Permit No. _____

(1) OWNER:
 Name PORTLAND STATE COLLEGE
 Address 724 SW HARRISON ST.
PORTLAND, OREGON

(11) LOCATION OF WELL:
 County MULT. Driller's well number 4282
SE 1/4 NE 1/4 Section 4 T. 15 R. 1E W.M.
 Bearing and distance from section or subdivision corner

(2) TYPE OF WORK (check):
 New Well Deepening Reconditioning Abandon
 If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: Rotary Driven
 Cable Jetted
 Dug Bored

(4) PROPOSED USE (check): Domestic Industrial Municipal
 Irrigation Test Well Other

(5) CASING INSTALLED: Threaded Welded
16" Diam. from 0 ft. to 232 ft. Gage 315
 " Diam. from _____ ft. to _____ ft. Gage _____
 " Diam. from _____ ft. to _____ ft. Gage _____

(12) WELL LOG: Diameter of well below casing _____
 Depth drilled 232 ft. Depth of completed well 232 ft.
 Formation: Describe color, texture, grain size and structure of materials;
 and show thickness and nature of each stratum and aquifer penetrated,
 with at least one entry for each change of formation. Report each change
 in position of Static Water Level as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
BASEMENT	0	10	
BROWN SAND	10	87	
SAND, SILT AND GRAVEL	87	113	
SOFT CEMENTED GRAVEL	113	130	
LOOSE SAND AND GRAVEL	130	155	
CEMENTED SAND AND GRAVEL	155	186	
LOOSE SAND AND GRAVEL	186	216	
CEMENTED GRAVEL	216	224	
HARD CEMENTED GRAVEL	224	227	
GRAVEL AND CLAY	227	232	
BLACK DECOMPOSED ROCK	232	232+6	

PERFORATIONS: Perforated? Yes No.
 Type of perforator used STAR
 Size of perforations 3/8 in. by 1 1/4 in.
960 perforations from 188 ft. to 205 ft.
 _____ perforations from _____ ft. to _____ ft.

(7) SCREENS: Well screen installed? Yes No
 Manufacturer's Name _____
 Type _____ Model No. _____
 Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
 Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WATER LEVEL: Completed well.
 Static level 135'4" ft. below land surface Date 8/26/68
 Artesian pressure _____ lbs. per square inch Date _____

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? STRASSER
525 gal./min. with 55 ft. drawdown after 8 hrs.
390 " " 31 " " 10 "
 " 180 " " 10 " " 12 "
 Bailor test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water 55° Was a chemical analysis made? Yes No

(10) CONSTRUCTION:
 Well seal—Material used CEMENT
 Depth of seal 20 FT BELOW BASEMENT.
 Diameter of well bore to bottom of seal 20 in. FLOOR
 Were any loose strata cemented off? Yes No Depth _____
 Was a drive shoe used? Yes No
 Did any strata contain unusable water? Yes No
 Type of water? _____ depth of strata _____
 Method of sealing strata off _____
 Was well gravel packed? Yes No Size of gravel: _____
 Gravel placed from _____ ft. to _____ ft.

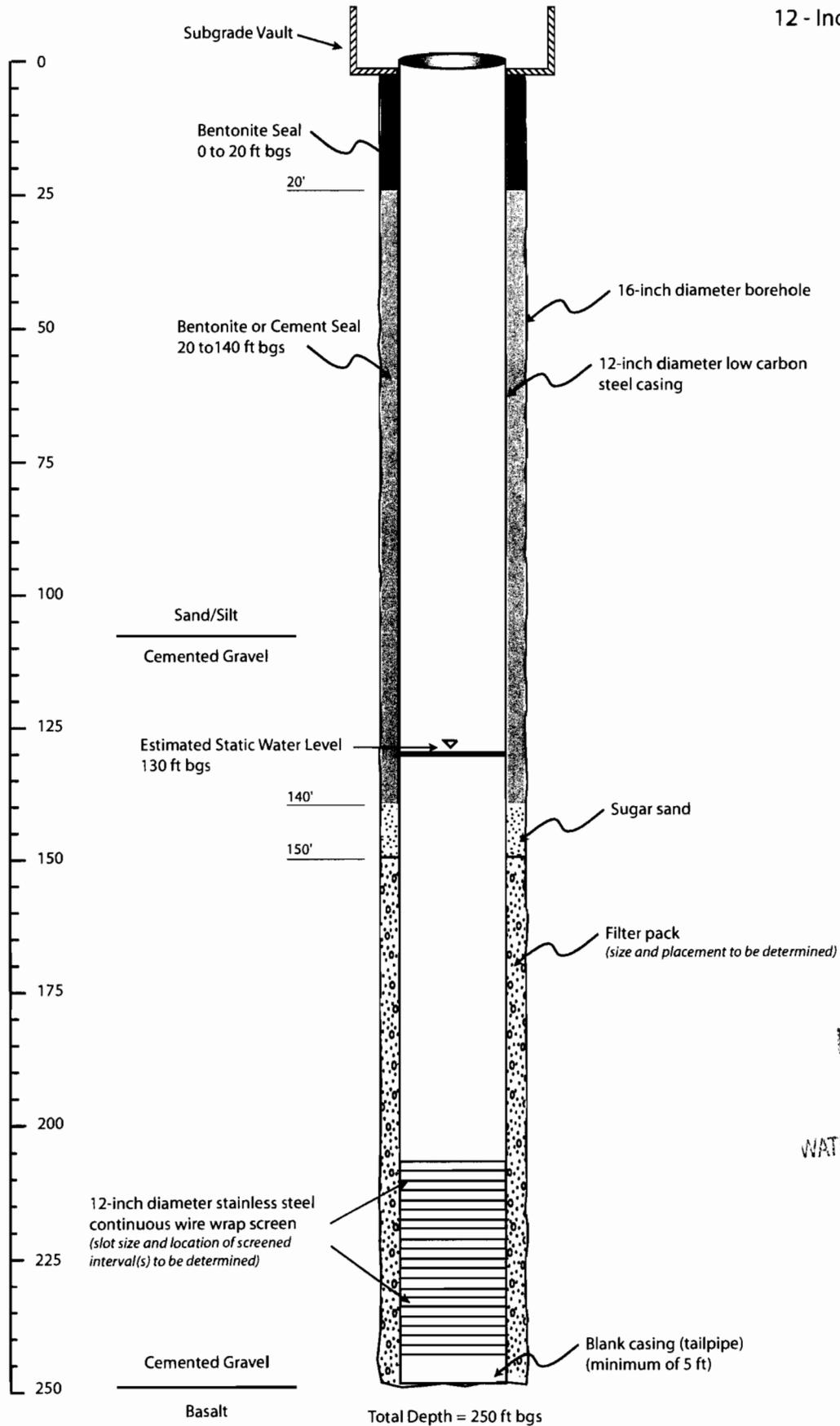
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Work started JULY 18 1968 Completed SEPT 3 1968
 Date well drilling machine moved off of well SEPT 5 1968

Drilling Machine Operator's Certification:
 This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
 [Signed] William Rudman Date SEPT 17 1968
 (Drilling Machine Operator)
 Drilling Machine Operator's License No. 54

Water Well Contractor's Certification:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
 NAME R.J. STRASSER DRILLING CO
 (Person, firm or corporation) (Type or print)
 Address 8110 SE SUNSET LAKE PORTLAND, O.
 [Signed] Robert L. Strasser
 (Water Well Contractor)
 Contractor's License No. 10 Date SEPT 17 1968



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Note:
 bgs = below ground surface
 ft = feet



DATE: October 2009
 DESIGN: EC
 PROJECT No. 292.002
 SCALE: not to scale

Figure 2
 Production Well Schematic (Schedule B)
 Science Building 2