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2 N / 32 E - 9 B

STATE ENGINEER
SALEM, OREGON

Application No. U 755
Permit No. U 670
Well No. _____

City of Pendleton
Well 4, Hospital Well
Originally drilled for
Eastern Oregon
State Hospital,
Pendleton, Oregon

REPORT ON COMPLETION OF WELL

(Note: This report should be submitted to the State Engineer, Salem, Oregon, as soon as possible after the well is completed. If more than one well is covered by this permit, a separate report shall be filed for each)

Date of Report Jan 5, 1955

1. Location of well: NW 1/4 NE 1/4 of Section 9 Twp. 2N Rge. 32E, W. M.
2. Name of nearest natural surface stream Umatilla River
3. Distance from well to that stream: 500 ~~550~~ feet.
4. If the well is less than 1300 feet from a natural surface stream, give the difference in elevation between the ground surface at the well and the lowest point in stream channel: ~~22~~ 22 feet.
5. Date of beginning drilling or digging: Oct. 7, 1953
6. Date well was completed May 1954

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Clay & Gravel	At surface	24 ft.
Brown & Grey Basalt	- 24 ft.	204 ft.
Clay	- 228 ft.	6 ft.
Broken Grey Basalt	- 234 ft.	23 ft.
Brown Honey comb rock	- 257 ft.	20 ft.
Grey Basalt	- 277 ft.	60 ft.
Brown & Grey Basalt	- 337 ft.	24 ft.
Water Bearing Basalt	- 361 ft.	18 ft.
Red & Grey Rock	- 379 ft.	28 ft.
Remarks: Grey Basalt	- 407 - 552 ft.	445 473 ft.

WELL INFORMATION

8. Diameter of well 12 inches. Depth of well 852 feet.
9. Depth at which water was first encountered 27 feet.
10. Water level when completed: 135 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.:
Some trouble with hole going crooked in 40-50 foot depth

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PUMP INFORMATION

12. Manufacturer of pump: Fairbanks Morse
 13. Address: Portland Oregon
 14. Data on name or base plate: Figure 6972
Motor Frame WP 2405 PV
 15. Data on pump bowl assembly: 11 stage Vert. pump
8" screwed column
Impeller "A"
 16. Size of pump: 820 GPM 11 stage 12"
 17. Rated capacity: 820 GPM gallons per minute.
 18. Rated speed: 1750 revolutions per minute.
 19. Number of stages: 11
 20. Size of intake pipe: 8"
 21. Size of discharge pipe: 8"
 22. Length of intake pipe: 230'
 23. Length of discharge pipe: 100'
 24. Suction lift: (difference in elevation between water surface in well and pump) 135 178
 25. Discharge lift: (difference in elevation between pump and end of discharge line) 178
 26. Depth of pump intake below ground surface: 230 feet.
 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

28. Name of manufacturer: Fairbanks Morse
 29. Address: _____
 30. Type of motor or engine: 125 HP 440 V 3 ph. 60 cy.
 31. Data on name or base plate: Same as above
with Motor Type QZKVV
 32. Rated horsepower: 125
 33. Rated speed of motor or engine: 1750 revolutions per minute.

34. Rated Capacity of Pump (with described motor)

<u>820</u> g.p.m. at	<u>488</u> ft. head	opera.
<u>500</u> g.p.m. at	<u>550</u> ft. head	
<u>1000</u> g.p.m. at	<u>330</u> ft. head	
_____ g.p.m. at	_____ ft. head	
_____ g.p.m. at	_____ ft. head	

35. Remarks: _____

CAPACITY TEST

36. Date of test: May 14 1954 37. Temperature of water ? °F. or ? °C.
 38. Motor speed during test: Elec. motor not used
 39. Test made by (weir, tank or other means): orifice

Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	Draw-down	+Time
___ lbs., Gauge at pump	Total	ft. in.	815	178 ft.	43 ft.	12 ³ / ₄ Hrs.
___ lbs., Gauge at pump	Total	ft. in.	940	193	58 ft.	2 ³ / ₄ Hrs.
___ lbs., Gauge at pump	Total	ft. in.			ft.	M.
___ lbs., Gauge at pump	Total	ft. in.			ft.	M.
___ lbs., Gauge at pump	Total	ft. in.			ft.	M.
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___ lbs., Gauge at pump	Total	ft. in.			ft.	M.
___ lbs., Gauge at pump	Total	ft. in.			ft.	M.
___ lbs., Gauge at pump	Total	ft. in.			ft.	M.

* Difference in elevation between water level in well and outlet of pump test line.
 ° Distance from ground level to water surface in well.
 □ Distance water level is lowered during time interval.
 + Hour and minute at which observation was made.

41. Installation will work efficiently under normal head of 480 ft.
 42. Water is discharged into: City water line
 43. Was water lowered to pump intake by test? No
 44. Remarks: _____

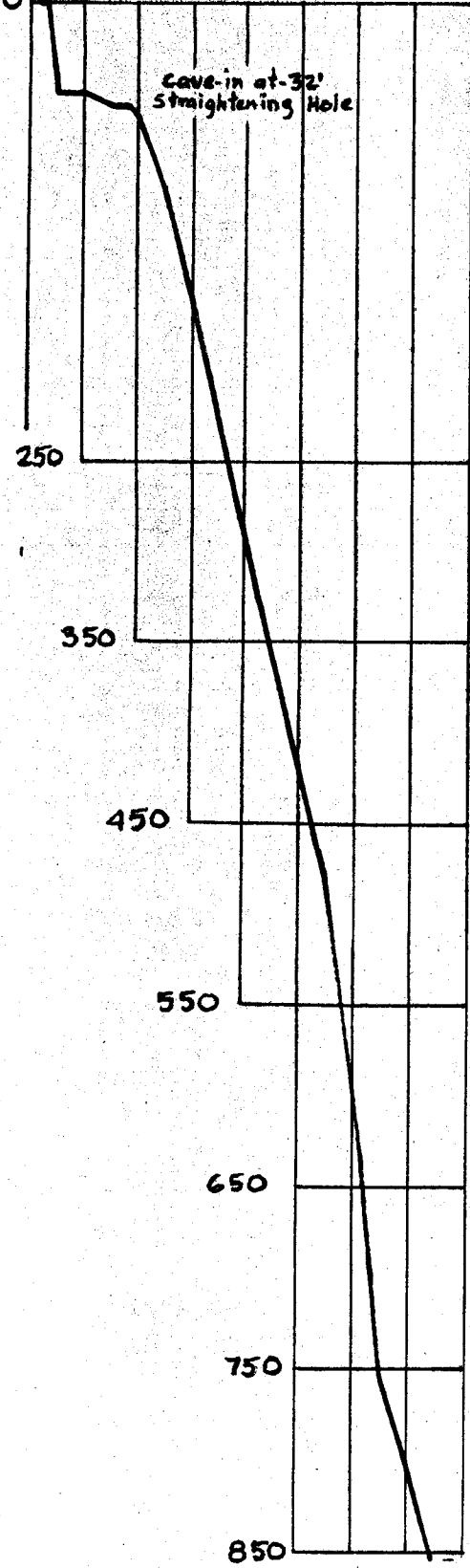
GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: R.J. Strasser
 Address: 8110 S.E. Sunset Lane Portland 6
 46. Pump and motor were installed by: Widner Elec. Co.
 Address: _____
 47. Capacity test was made by: R.J. Strasser
 Address: see above
 48. General remarks: _____

PROGRESS CHART

1953 1954

OCT. NOV. DEC. JAN FEB MAR APR. MAY

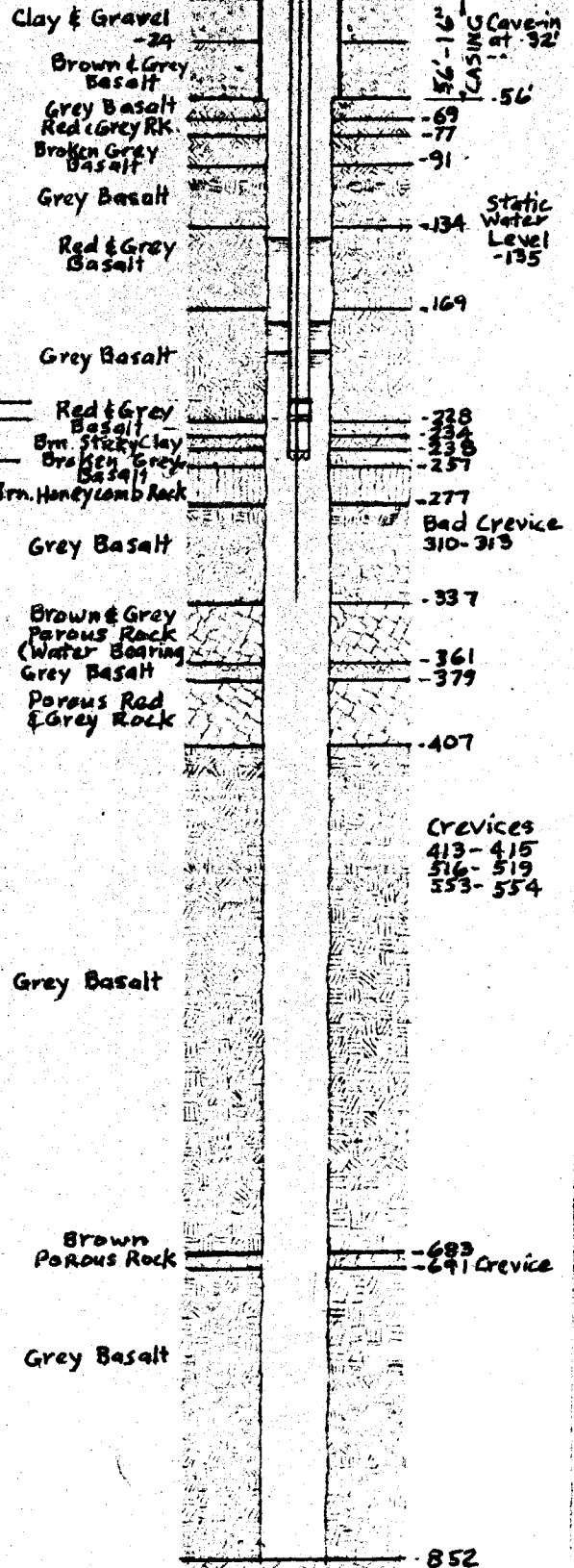


Field Test: May 14, 1954. 10:30 AM - 12:00 PM

-135 Static W.S.
-178 W.S. @ 815 G.P.M.
-193 W.S. @ 940 G.P.M.
Bot. of Strainer

WELL LOG

SURFACE EL 1047.95 = 0.0



Pump Installed: Fairbanks Morse-11 Stage
12" LC Fig. 6972-220'-8" column, plus 9'-9"
of bowls, plus 20' of suction pipe and
8" x 2'-3 3/4" of strainer. Capacity 820 G.P.M.
480 T.D.H. - 82% Eff. - Motor - 125 HP - 440V.
3 Ph. - 60 cy. - 1800 R.P.M.

EASTERN OREGON STATE HOSPITAL
PENDLETON, OREGON
LOG OF DEEP WATER WELL
AND OTHER DATA
SEPT. 1954
JOHN W. CUNNINGHAM & ASSOC.
CONSULTING ENGINEERS
PORTLAND, OREGON
G 53-L-3
3704

From Hagenson, G.M., 1964, *Geology and Ground Water of the Umatilla River Basin, Oregon*; U.S. Geological Survey Water-Supply Paper 1620.

110 GEOLOGY AND GROUND WATER, UMATILLA RIVER BASIN.

TABLE 2.—*Drillers' logs of representative wells*—Continued

Materials	Thickness (feet)	Depth (feet)
2N/32-9B1. Oregon State Hospital. Drilled by R. J. Strasser, 1953-54		
Quaternary alluvium:		
Top soil.....	4	4
Boulders and clay.....	5	9
Sand and clay.....	9	18
Gravel and clay.....	6	24
Columbia River basalt:		
Basalt, brown and gray; water standing at 32 ft.....	32	56
Basalt, gray.....	13	69
Basalt, red and gray.....	8	77
Basalt, gray.....	2	79
Basalt, gray, broken; water standing at 27 ft.....	2	81
Basalt, gray.....	7	88
Basalt, broken, with green clay.....	3	91
Basalt, gray.....	43	134
Basalt, gray and red.....	35	169
Basalt, gray.....	59	228
Basalt, gray and red.....	6	234
Clay, brown, sticky.....	4	238
Basalt, gray.....	9	247
Basalt, gray, broken.....	10	257
Basalt, brown, honeycomb.....	17	274
Basalt, gray.....	36	310
Basalt, gray, creviced.....	3	313
Basalt, gray.....	24	337
Basalt, gray and brown, porous.....	13	350
Basalt, gray and brown, porous, water-bearing, water standing at 116 ft.....	11	361
Basalt, gray.....	18	379
Basalt, gray and red, porous.....	28	407
Basalt, gray.....	6	413
Basalt, gray, creviced.....	2	415
Basalt, gray.....	14	429
Basalt, gray, water standing at 135 ft.....	5	434
Basalt, gray.....	29	463
Basalt, gray, broken.....	8	471
Basalt, gray.....	45	516
Basalt, gray, creviced.....	3	519
Basalt, gray.....	34	553
Basalt, gray, creviced.....	1	554
Basalt, gray.....	126	680
Basalt, brown, porous, water-bearing.....	11	691
Basalt, gray, water standing at 135 ft.....	160	851



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Application for
Well ID Number

Do not complete if the well already has a Well I.D Number.

I. OWNER INFORMATION

Current Owner Name (please print): City of Pendleton
Mailing Address: 500 SW Dorion Ave.
City: Pendleton State: OR Zip: 97801
Mailing Address (to send Well I.D.):
City: State: Zip:

II. WELL INFORMATION (Do not complete this section if the well report is attached.) Hospital Well #4

Township: 2 N (North/South) Range: 32 E (East/West) Section: 9
Tax Lot: 500 County: Umatilla NW 1/4 NE 1/4
Street Address of Well: 2024 Westgate Ave. City: Pendleton
Owner at time the well was constructed, (if known): State of Oregon
If the property had a different street address in the past:

III. GENERAL WELL INFORMATION (Do not complete this section if the well report is attached)

Use of Well (domestic, irrigation, commercial, industrial, monitoring): municipal
Date Well Constructed: 1953-1954 Total Well Depth: 853' Casing Diameter: 16"-56"
Other Information:

SUBMITTED BY (please print): Karen King, Regulatory Specialist, City
PHONE: 541-966-0249 FAX: 541-966-0251

Well ID # L 94958 RECEIVED BY OWRD

MAY 06 2013

Send application to Oregon Water Resources Department; 725 Summer St NE, Suite A; Salem, Oregon 97301-1266; fax (503) 986-0902. Applications are processed and Well I.D. Numbers are mailed every Wednesday. SALEM, OR

For Official Use Only by the Oregon Water Resources Department:

Received Date: 5-6-13 Well Log Number: UMAT 55619 Well Identification #: L-94958