

RECEIVED

UMAT 53635

2N/32-10F(1)

NOV 25 1953

STATE ENGINEER SALEM, OREGON

City of Padonia

Application No. U-629
Permit No. U-579
Well No. #2

UMATILLA C.

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 Nov. 23, 1953

1. Location of well: SE 1/4 of NW 1/4 of Section 11 Twp. 21N Rge. 32E W. M.
2. Name of nearest natural surface stream Umatilla River
3. Distance from well to that stream: 200 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: 15 feet.
5. Date of beginning drilling or digging: July 1948
6. Date well was completed Nov. 1948

LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
<u>gravel & rock</u>	<u>At surface</u>	<u>17</u> ft.
<u>black basalt</u>	<u>17</u> ft.	<u>363</u> ft.
<u>Broken basalt</u>	<u>363</u> ft.	<u>370</u> ft.
<u>Basalt</u>	<u>370</u> ft.	<u>570</u> ft.
<u>Loose basalt & sand</u>	<u>570</u> ft.	<u>575</u> ft.
<u>Hard basalt</u>	<u>575</u> ft.	<u>670</u> ft.
<u>Red basalt</u>	<u>670</u> ft.	<u>728</u> ft.
<u>Black basalt</u>	<u>728</u> ft.	<u>760</u> ft.

Remarks:

WELL INFORMATION

8. Diameter of well 16 inches. Depth of well 761 feet.
9. Depth at which water was first encountered unknown feet.
10. Water level when completed: 140 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: Well caved at 570 feet. Water stood in hole from depth of 15 feet, on down. However at 430 ft. depth - water level rose from ~~120 to 140~~ 140 to 130 ft.

430

~~Water temp 49°F~~

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STATE ENGINEER
SALEM, OREGON

2N/32-10FV

PUMP INFORMATION

- 12. Manufacturer of pump: Fearless
- 13. Address: Agent - R.M. Wade, Portland Oregon
- 14. Data on name or base plate: Fearless # 83999 - 16" type G.A.
- 15. Data on pump bowl assembly: 169' 10 3/4" column + 8' - 7 3/4" of bowls + 19' - 9 3/4" = 10" suction + 2' - 4 3/4" screen = 200' - 8 1/4" total
- 16. Size of pump: 12" bowls
- 17. Rated capacity: 1000 gallons per minute.
- 18. Rated speed: 1750 revolutions per minute.
- 19. Number of stages: 9
- 20. Size of intake pipe: 12"
- 21. Size of discharge pipe: 12"
- 22. Length of intake pipe: 10 ft.
- 23. Length of discharge pipe: 30 ft.
- 24. Suction lift: (difference in elevation between water surface in well and pump) ~~440 ft.~~ none
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) 450 ft. TDH.
- 26. Depth of pump intake below ground surface: 200 feet.
- 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: Westinghouse
- 29. Address: Portland, Oregon
- 30. Type of motor or engine: Electric motor
- 31. Data on name or base plate: 440 V, 150 HP, 3ph, 60 ~ 1760 r.p.m.
- 32. Rated horsepower: 150
- 33. Rated speed of motor or engine: 1760 revolutions per minute.
- 34. Rated Capacity of Pump (with described motor)

<u>1000</u> g.p.m. at <u>450</u> ft. head
_____ g.p.m. at _____ ft. head
_____ g.p.m. at _____ ft. head
_____ g.p.m. at _____ ft. head
_____ g.p.m. at _____ ft. head

35. Remarks: Pump is operated at a relatively constant head.

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21/32 70 FT)
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SALEM, OREGON

CAPACITY TEST

36. Date of test: 9/30/53 37. Temperature of water 50 °F. or ___ °C.
 38. Motor speed during test: 1700 to 2000 rpm
 39. Test made by (weir, tank or other means): water office

Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	Draw-down	+Time
<u>24" lbs.</u>	Gauge at pump	Total <u>170</u> ft. <u>-</u> in.	<u>1540</u>	<u>168</u> ft.	<u>28</u> ft.	<u>8 A.M.</u>
24" lbs.	Gauge at pump	Total 170 ft. <u>-</u> in.				<u>M.</u>
<u>30 lbs.</u>	Gauge at pump	Total <u>176</u> ft. <u>+</u> in.	<u>1711</u>	<u>174</u> ft.	<u>34</u> ft.	<u>3:45 P.M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>34" lbs.</u>	Gauge at pump	Total 182 ft. <u>-</u> in.	<u>1820</u>	<u>180</u> ft.	<u>40</u> ft.	<u>10 P.M.</u>
<u>lbs.</u>	Gauge at pump	Total <u>182</u> ft. <u>10</u> in.				<u>M.</u>
24" lbs.	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>
<u>lbs.</u>	Gauge at pump	Total ___ ft. ___ in.				<u>M.</u>

- * 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 280 ft.
 42. Water is discharged into: Distribution System
 43. Was water lowered to pump intake by test? No.
 44. Remarks: Power not available to lower water to pump intake.

GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: A.A. Durrand & Son. Address: Walla Walla, Wn.
 46. Pump and motor were installed by: R.M. Wade & Co. Address: Portland, Ore.
 47. Capacity test was made by: Paul Durrand. Address: Walla Walla Wn.
 48. General remarks: _____

STATE ENGINEER
Salem, Oregon

UMAT 53635

State Well No. 2N/32-10E(1)
County UMATILLA
Application No. U-029

Chemical Analysis

OWNER City of Pendleton OWNER'S NO. _____

ANALYST _____ Address _____

Date of Collection 6-13-52

Point of Collection _____

	P.P.M.	E.P.M.
Silica (SiO ₂)	49	
Iron (Fe) Total	.03	
Manganese (Mn)	0.03	
Calcium (Ca)	32.	
Magnesium (Mg)	0.12 12.	
Sodium (Na)	30	
Potassium (K)	5.2	
Bicarbonate (HCO ₃)	220	
Carbonate (CO ₃)		
Sulfate (SO ₄)	11	
Chloride (Cl)	7.9	
Fluoride (F)	.2	
Nitrate (NO ₃)	2.9	
Boron (B)	.08	
Dissolved Solids	259	
Hardness as CaCO ₃	129	
Specific Conductance (Micromhos at 25°C)	385	
pH	7.8	
Percent Sodium		
Sodium Absorption Ratio (S.A.R.)	1.2	
CLASS		

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Pendleton Description of source Well #2 (roundup grounds)

Analysis by MHP Date 11/22/54 Collected by _____ Date 6/24/54

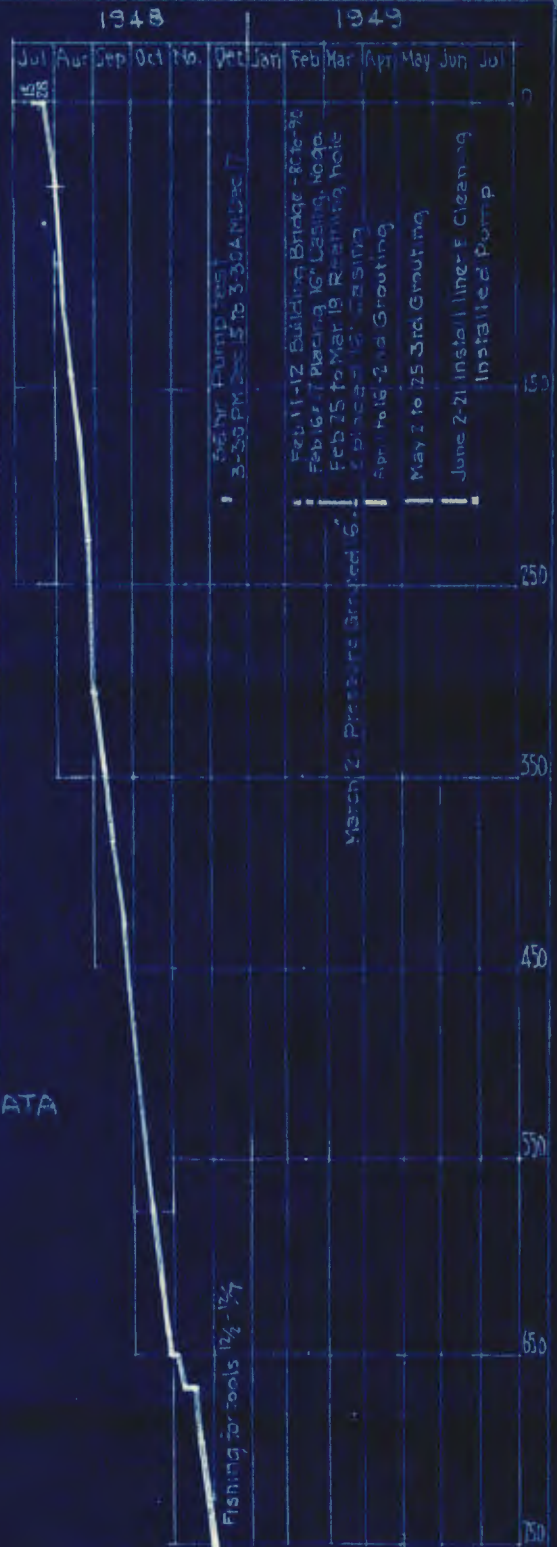
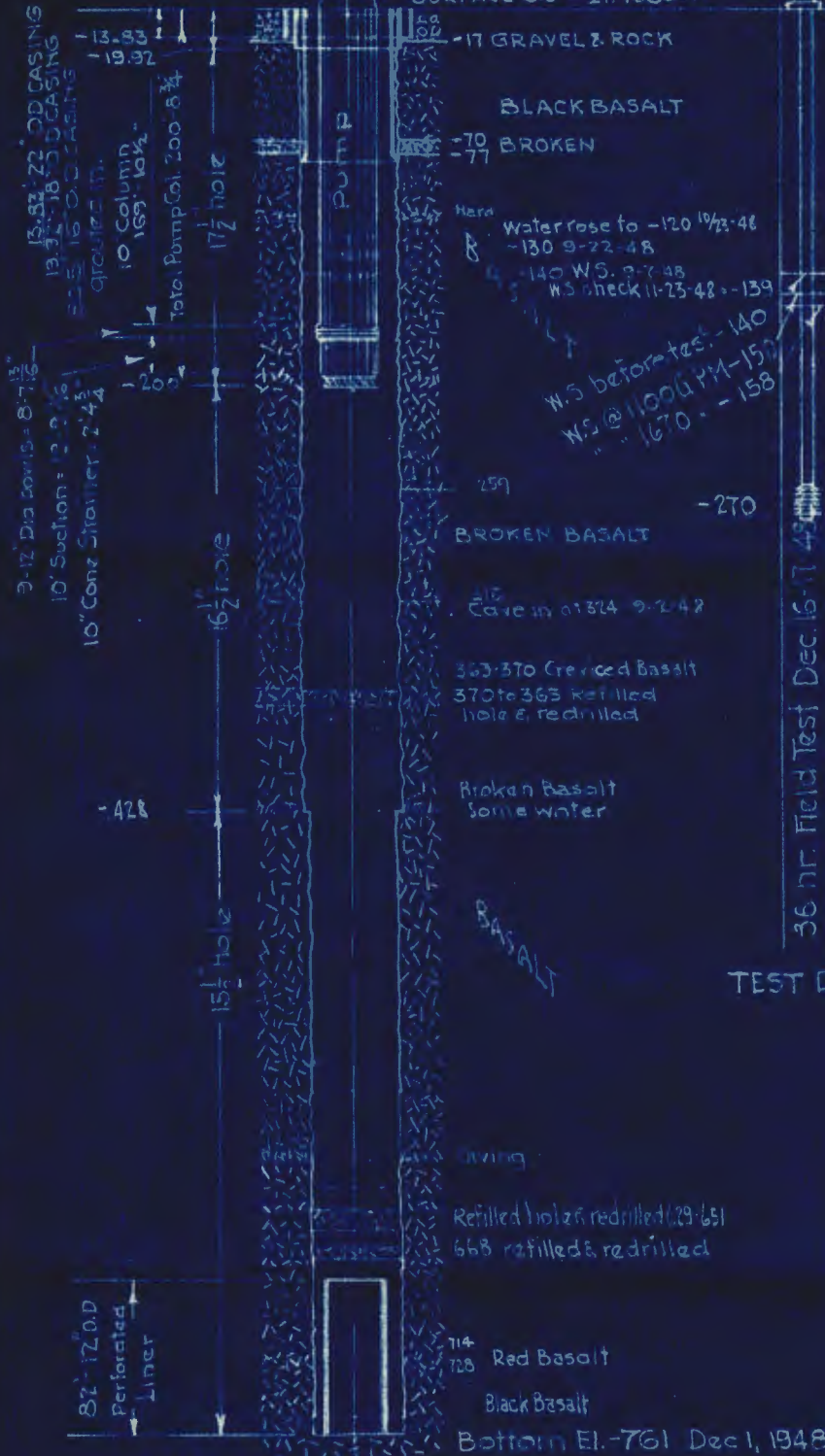
RESULTS

2/1

	<u>Parts per million</u>
Turbidity _____	<u>5</u>
Color: Apparent _____ True _____	<u>2</u>
Odor: Hot _____ Cold _____	
Total Solids _____	<u>273</u>
Loss on Ignition _____	<u>330</u>
Silicon (SiO ₂) _____	<u>50</u>
Chloride (Cl) _____	<u>8.0</u>
Sulfate (SO ₄) _____	<u>9.0</u>
Calcium (Ca) _____	<u>31</u>
Magnesium (Mg) _____	<u>23</u>
Aluminum (Al) _____	<u>0</u>
Orthophosphates (PO ₄) _____	<u>.15</u>
Metaphosphates (PO ₃) ₆ _____	
Alkalinity (as CaCO ₃): Carbonate _____	<u>12</u>
Bicarbonate _____	<u>160</u>
Hardness (as CaCO ₃) _____	<u>131</u>
Sodium and Potassium (as Na) _____	<u>40</u>
Iron (Fe) _____	<u>.14</u>
Manganese (Mn) <u>Trace (less than .05 ppm)</u>	
Fluoride (F) _____	<u>.4</u>
Carbon Dioxide (CO ₂) _____	<u>2.1</u>
pH <u>8.2</u>	
Remarks _____	

UMAT 53635

Top of 16" casing
SURFACE O.D. = El. 1053.71



DRILLING & INSTALLATION DATA

Pump Installed: - Peerless # 83999 - 10" - 9 1/2 stage, 169' 10 1/2" Column - 8' 7 3/4" of bowls + 19' 9 3/4" - 10" Suction + 2' 4 3/4" Screen - 200' - 8 3/4" Total.
1000 G.P.M. - 450' T.D.H. - 81% Eff
Motor - 150 HP - 440V - 3 Ph - 60 Cy - 1760 R.P.M.
Peerless type G.A. (1300/1760) 4:3 ratio Rt.
Angle Gear Drive provided

CITY OF PENDLETON, OREGON

LOG OF DEEP WATER WELL

ROUND-UP PARK
MARCH, 1949

JOHN W. CUNNINGHAM & ASSOCIATES
CONSULTING ENGINEERS
PORTLAND, OREGON

573-L-2
2575



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 Darion 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.) Roundup Well #2

Township: 2N (North/South) Range: 32E (East/West) Section: 10
Tax Lot: 400 County: Umatilla SE 1/4 NW 1/4
Street Address of Well: 1105 SW Court Ave. City: Pendleton
Owner at time the well was constructed, (if known): City of Pendleton
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: 1948 Total Well Depth: 761 ft. Casing Diameter: 16" - unknown depth
Other Information:

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

Well ID # L 94956 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 53635 Well Identification #: L-94956