

UMAT 53636

UMAT  
53636

2N/32-10N/11 cca

Application No. U 455

Permit No. U 418

Well No. 3

21st well -

REPORT ON COMPLETION OF WELL

UMATLLA Co.

(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)

City of Pendleton

Date of Report October 19, 1953

1. Location of well: SW 1/4 SW 1/4 of Section 10 Twp. 2N Rge. 32E, W. M.
2. Name of nearest natural surface stream Umatilla River
3. Distance from well to that stream: 3,700 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: \_\_\_\_\_ feet.
5. Date of beginning drilling or digging: December 23, 1951
6. Date well was completed Oct 1, 52

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
<u>Clay &amp; Rock</u>	<u>At surface</u>	<u>6</u> ft.
<u>Broken Basalt</u>	<u>6'</u> ft.	<u>26</u> ft.
<u>Broken Rock</u>	<u>32'</u> ft.	<u>24</u> ft.
<u>Basalt Rock, some mud</u>	<u>56</u> ft.	<u>198</u> ft.
<u>Basalt</u>	<u>254</u> ft.	<u>409</u> ft.
<u>Broken Rock &amp; Clay</u>	<u>663</u> ft.	<u>8</u> ft.
<u>Basalt</u>	<u>671</u> ft.	<u>338</u> ft.
	ft.	ft.
	ft.	ft.

Remarks: Final depth 1009

WELL INFORMATION

8. Diameter of well 16" inches. Depth of well 1009 feet.
9. Depth at which water was first encountered 56 feet.
10. Water level when completed: 153 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: \_\_\_\_\_

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PUMP INFORMATION

- 12. Manufacturer of pump: Peerless Pump Division
- 13. Address: R.M. Wade & Co; 106 SE Hawthorne; Portland 12, Ore.
- 14. Data on name or base plate: \_\_\_\_\_
- 15. Data on pump bowl assembly: 15 bowls, 9 1/2 inches Diameter;  
7" O.D. Strainer, 15" long;
- 16. Size of pump: 500 gpm
- 17. Rated capacity: 500 gpm gallons per minute.
- 18. Rated speed: 1750 revolutions per minute.
- 19. Number of stages: 15
- 20. Size of intake pipe: 6" Suction - 8" Column
- 21. Size of discharge pipe: \_\_\_\_\_
- 22. Length of intake pipe: 290' (Column only)
- 23. Length of discharge pipe: \_\_\_\_\_
- 24. Suction lift: (difference in elevation between water surface in well and pump) 153'
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) 260'
- 26. Depth of pump intake below ground surface: 322 3/4 feet.
- 27. Remarks: \_\_\_\_\_

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: Westing House
- 29. Address: \_\_\_\_\_
- 30. Type of motor or engine: Vertical hollow shaft, Squirrel  
Cage induction type, Weather proof covers, electric motor
- 31. Data on name or base plate: 3 phase; 480 Volt

- 32. Rated horsepower: 100
- 33. Rated speed of motor or engine: 1750 revolutions per minute.

34. Rated Capacity of Pump (with described motor)	<u>500</u> g.p.m. at <u>536</u> ft. head <i>Total dynam.</i>
	_____ 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: \_\_\_\_\_

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CAPACITY TEST

36. Date of test: Sept 8, 1952 37. Temperature of water 64 °F. or \_\_\_ °C.  
 38. Motor speed during test: 1450 to 1550 RPM  
 39. Test made by (weir, tank or other means): 6" orifice 10" std Pipe  
1550 RPM

40. Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	Draw-down	+Time
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>490</u>	<u>260</u> ft.	<u>107</u> ft.	<u>12:15</u> M. PM
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>490</u>	<u>260</u> ft.	<u>107</u> ft.	<u>12:30</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>500</u>	<u>260</u> ft.	<u>107</u> ft.	<u>1:00</u> M.
___ lbs., Gauge at pump	Total	<u>275</u> ft. in.	<u>510</u>	<u>265</u> ft.	<u>112</u> ft.	<u>1:30</u> M.
___ lbs., Gauge at pump	Total	<u>275</u> ft. in.	<u>510</u>	<u>265</u> ft.	<u>112</u> ft.	<u>2:00</u> M.
___ lbs., Gauge at pump	Total	<u>275</u> ft. in.	<u>510</u>	<u>265</u> ft.	<u>112</u> ft.	<u>2:30</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>2:45</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>3:00</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>3:30</u> M.
___ lbs., Gauge at pump	Total	<u>275</u> ft. in.	<u>559</u>	<u>265</u> ft.	<u>112</u> ft.	<u>4:00</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>4:15</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>4:45</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>5:15</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>6:00</u> M.
___ lbs., Gauge at pump	Total	<u>270</u> ft. in.	<u>540</u>	<u>260</u> ft.	<u>107</u> ft.	<u>6:45</u> M.
___ lbs., Gauge at pump	Total	<u>277</u> ft. in.	<u>586</u>	<u>267</u> ft.	<u>114</u> ft.	<u>7:00</u> M.
___ lbs., Gauge at pump	Total	<u>277</u> ft. in.	<u>586</u>	<u>267</u> ft.	<u>114</u> ft.	<u>7:30</u> 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 536 ft.  
 42. Water is discharged into: Distribution System  
 43. Was water lowered to pump intake by test? Yes  
 44. Remarks: Surface Water flows into well at 38' depth

GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: A.A. Durand  
 Address: 115 Reese Ave., Walla Walla, Wash.  
 46. Pump and motor were installed by: R.M. Wade & Company  
 Address: Same as above  
 47. Capacity test was made by: A.A. Durand  
 Address: Same as above  
 48. General remarks: \_\_\_\_\_

UMAT 53636

Oregon State Board of Health

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Pendleton Description of source Well #3 SW 2 & Bailey <sup>Stillman Well</sup>

Analysis by MHP Date 11/22/54 Collected by \_\_\_\_\_ Date 6/24/54

RESULTS

	<u>Parts per million</u>
Turbidity _____	<u>5</u>
Color: Apparent _____ True _____	<u>1</u>
Odor: Hot _____ Cold _____	
Total Solids _____	<u>311</u>
Loss on Ignition _____	<u>112</u>
Silicon (SiO <sub>2</sub> ) _____	<u>50</u>
Chloride (Cl) _____	<u>16.5</u>
Sulfate (SO <sub>4</sub> ) _____	<u>21</u>
Calcium (Ca) _____	<u>29</u>
Magnesium (Mg) _____	<u>22</u>
Aluminum (Al) _____	<u>0</u>
Orthophosphates (PO <sub>4</sub> ) _____	<u>Trace (less than .05 ppm)</u>
Metaphosphates (PO <sub>3</sub> ) <sub>6</sub> _____	
Alkalinity (as CaCO <sub>3</sub> ): Carbonate _____	<u>8</u>
Bicarbonate _____	<u>144</u>
Hardness (as CaCO <sub>3</sub> ) _____	<u>128</u>
Sodium and Potassium (as Na) _____	<u>48</u>
Iron (Fe) _____	<u>.12</u>
Manganese (Mn) _____	<u>Trace (less than .05 ppm)</u>
Fluoride (F) _____	<u>.4</u>
Carbon Dioxide (CO <sub>2</sub> ) _____	<u>1.8</u>
pH <u>8.2</u>	
Remarks _____	



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 Dorian Ave.
City: Pendleton State: OR Zip: 97801

II. WELL INFORMATION (Do not complete this section if the well report is attached.) SW 21st St. Well #3

Township: 2N (North/South) Range: 32 E (East/West) Section: 10
Tax Lot: 4100 County: Umatilla SW 1/4 SW 1/4
Street Address of Well: 708 SW 21st St. City: Pendleton
Owner at time the well was constructed, (if known): City of Pendleton

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: 1952 Total Well Depth: 1009 ft Casing Diameter: see below
Other Information: 20"-20"; 16"-83.7"

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

Well ID # L 94957 RECEIVED BY OWRD

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.

MAY 06 2013

SALEM, OR

For Official Use Only by the Oregon Water Resources Department:
Received Date: 5-6-13
Well Log Number: UMAT 53636
Well Identification #: L-94957