

UMAT
4180

UMAT 4180
RECEIVED
JUN 14 1955
STATE ENGINEER
SALEM, OREGON

6N/34-35K(1)
Umatilla

Application No. U 793
Permit No. U _____
Well No. 1

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)

E. F. Arnold.

Date of Report 13 June, 1955

1. Location of well: NW 1/4 SE 1/4 of Section 35 Twp. 6N Rge. 34 E, W. M.
2. Name of nearest natural surface stream Pine Creek
3. Distance from well to that stream: 1980 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: 9 February 1955
6. Date well was completed 10 May 1955

LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Yellow Clay Some Water Gravel	At surface	72 ft.
Gravel - Broken Basalt	72 ft.	44 ft.
Black Basalt Rock	116 ft.	234 ft.
Black Basalt Rock Containing--	ft.	ft.
Water Crystals	350 ft.	102 ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.

Remarks: _____

WELL INFORMATION

8. Diameter of well 16 inches. Depth of well 452 feet.
9. Depth at which water was first encountered 42 feet.
10. Water level when completed: 31' - 4'' feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: No Quick Sand Hard Basalt Rock From Bed Rock To Completion Except Encountered Crevices Between 137' And 147' Again Between 243' And 260'

WATER LEVEL - 47' (8-7-57)

PUMP INFORMATION

STATE ENGINEER,
SALEM, OREGON

- 12. Manufacturer of pump: Worthington
- 13. Address: Denver, Colorado
- 14. Data on name or base plate: 12QFO-6 stage. 1050GPM at 380' head at 1760RPM
- 15. Data on pump bowl assembly: 12QFO-6
- 16. Size of pump: 12"
- 17. Rated capacity: 1050 GrM at 380' gallons per minute.
- 18. Rated speed: 1760 revolutions per minute.
- 19. Number of stages: six
- 20. Size of intake pipe: 8"
- 21. Size of discharge pipe: 8"
- 22. Length of intake pipe: 10"
- 23. Length of discharge pipe: see 42
- 24. Suction lift: (difference in elevation between water surface in well and pump) See test data
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) Approx. 110'
- 26. Depth of pump intake below ground surface: 139' 2" feet.
- 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: U S Electric Motors Inc
- 29. Address: Los Angeles Calif.
- 30. Type of motor or engine: Electric
- 31. Data on name or base plate: Volts 220-440; Type CFU; Frame 505-P Serial 1025686; 60 Cycles; 151-302 Amp.; 40 Deg. C Rating Code F; Design-B.
- 32. Rated horsepower: 125
- 33. Rated speed of motor or engine: 1800 revolutions per minute.

34. Rated Capacity of Pump (with described motor)	800	g.p.m. at	412	ft. head
	900	g.p.m. at	400	ft. head
	1000	g.p.m. at	380	ft. head
	1100	g.p.m. at	365	ft. head
	1200	g.p.m. at	342	ft. head

- 35. Remarks: _____

CAPACITY TEST
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UMATILLA

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36. Date of test: 10 May 1955 37. Temperature of water 71° F. or °C.
 38. Motor speed during test: 1800
 39. Test made by (weir, tank or other means): 6 inch Orifice in 8 inch Dis-charge Pipe

40. pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	*Feet to water level	Draw-down	*Time
6 in. Orifice Read	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u>31'4"</u> ft.	<u> </u> ft.	<u>0945</u> M.
26 Inches	lbs. Gauge at pump	Total <u>91</u> ft. <u> </u> in.	<u>805</u>	<u>89</u> ft.	<u>58</u> ft.	<u>1030</u> M.
42 "	lbs. Gauge at pump	Total <u>112</u> ft. <u> </u> in.	<u>1001</u>	<u>110</u> ft.	<u>79</u> ft.	<u>1115</u> M.
61 "	lbs. Gauge at pump	Total <u>133</u> ft. <u> </u> in.	<u>1200</u>	<u>131</u> ft.	<u>100</u> ft.	<u>1200</u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </u> M.
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	lbs. Gauge at pump	Total <u> </u> ft. <u> </u> in.		<u> </u> ft.	<u> </u> ft.	<u> </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.
- Δ 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 380 ft.
 42. Water is discharged into: Buried steel main 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: Geo. E. Scott
141 So. Elizabeth Address: Milton Freewater Oregon
 46. Pump and motor were installed by: Lott Supply Co.
 Address: Walla Walla Wash
 47. Capacity test was made by: Geo. E. Scott
 Address: See Above
 48. General Remarks: _____