

UMAT 1806
RECEIVED
 JAN 24 1955
 STATE ENGINEER
 SALEM, OREGON

UMAT
 1806

4N/27-36E(1)
 Umatilla

Application No. U 736
 Permit No. U 649
 Well No. 1

G.W. Redwine

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. 21, 1955

1. Location of well: SW 1/4 of NW 1/4 of Section 36 Twp. 4N Rge. 27E, W. M.
2. Name of nearest natural surface stream Umatilla River
3. Distance from well to that stream: approx 3 Miles 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: Approx 3 Miles feet.
5. Date of beginning drilling or digging: August 16, 1952
6. Date well was completed September 8, 1952

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
<u>Sandy loam Topsoil</u>	At surface	<u>20</u> ft.
<u>Sand & Gravel</u>	<u>20</u> ft.	<u>30</u> ft.
<u>Gravel</u>	<u>30</u> ft.	<u>65</u> ft.
<u>Gray Clay</u>	<u>95</u> ft.	<u>10</u> ft.
<u>Gray Rock</u>	<u>105</u> ft.	<u>30</u> ft.
<u>Blue Clay & Shale</u>	<u>135</u> ft.	<u>59</u> ft.
	ft.	ft.
	ft.	ft.
	ft.	ft.

Remarks: _____

WELL INFORMATION

8. Diameter of well 12 inches. Depth of well 194 feet.
9. Depth at which water was first encountered 55 feet.
10. Water level when completed: 55 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: Gravel had tendency to cave from 60' to 95' where Gray Clay was first found.

PUMP INFORMATION

12. Manufacturer of pump: Berkeley Pump Co
 13. Address: Berkeley, California
 14. Data on name or base plate: Model 803-9 Serial # 5410118
1750 RPM - 15 H.P.
 15. Data on pump bowl assembly: 803-4 - deep Diameter 6 1/2 x 6"
9 Stages -
 16. Size of pump: 15 H.P.
 17. Rated capacity: 225 gpm gallons per minute.
 18. Rated speed: 1750 rpm revolutions per minute.
 19. Number of stages: 9
 20. Size of intake pipe: 5"
 21. Size of discharge pipe: 5"
 22. Length of intake pipe: 5'5"
 23. Length of discharge pipe: 160'
 24. Suction lift: (difference in elevation between water surface in well and pump) Deep Well turbine - P.L. 140'
 25. Discharge lift: (difference in elevation between pump and end of discharge line) 140'
 26. Depth of pump intake below ground surface: 170' feet.
 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

28. Name of manufacturer: U.S. Motors
 29. Address: Los Angeles Calif
 30. Type of motor or engine: Electrical
 31. Data on name or base plate: 15 H.P. - 3 Ph. - 220-440 volts -
Frame 326-3 - Serial # 961412 - 60 cycle
1800-RPM - 20-40 Amps. 40°C Rating
F Code B Design.
 32. Rated horsepower: 15
 33. Rated speed of motor or engine: 1800 revolutions per minute.
 34. Rated Capacity of Pump
 (with described motor)
- | |
|--|
| <u>225</u> g.p.m. at <u>320</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: _____

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SALEM, OREGON

CAPACITY TEST

36. Date of test: 12/12/53 37. Temperature of water °F. or °C.
 38. Motor speed during test: varied
 39. Test made by (weir, tank or other means): Deep well testline w/ gas motor

Used new type Direct Reading & Depth Gauge - 11 ft.

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.	187	50 ft.	125 ft.	2 P.M.
lbs.; Gauge at pump	Total	ft. in.	240	125 ft.	175 ft.	M.
lbs.; Gauge at pump	Total	ft. in.	230	170 ft.	200 ft.	M.
lbs.; Gauge at pump	Total	ft. in.	225	160 ft.	200 ft.	M.
lbs.; Gauge at pump	Total	ft. in.	225	150 ft.	200 ft.	80 M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
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lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.
lbs.; Gauge at pump	Total	ft. in.		ft.	ft.	M.

} 6 hr Part.

- * 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 320 ft.
 42. Water is discharged into: 6" steel main line pipe
 43. Was water lowered to pump intake by test? Yes - from 50 to 150'
 44. Remarks: well capacity was getting better &

GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: B+G Drilling Co. Address: Pendleton, Oregon
 46. Pump and motor were installed by: Carroll Equipment Co
 Address: Pendleton, Oregon
 47. Capacity test was made by: Carroll Equip. Co
 Address: Pendleton, Oregon
 48. General remarks: _____