

STATE ENGINEER
Salem, Oregon

UMAT
3929

OBSERVATION WELL
UMAT Well Record

STATE WELL NO. 5N/35-2L(1)
COUNTY UMATILLA
APPLICATION NO. U-511

OWNER: CITY OF MILTON FREEWATER

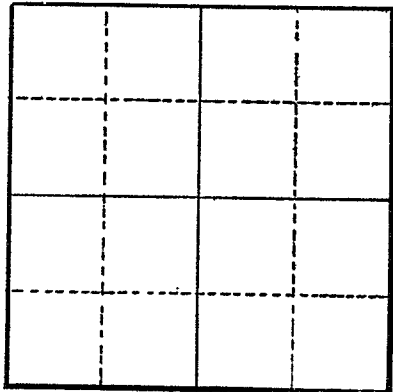
MAILING ADDRESS: MILTON FREEWATER

LOCATION OF WELL: Owner's No. #6

CITY AND STATE: _____

NE 1/4 SW 1/4 Sec. 2 T. 5 N. S, R. 35 W., W.M.

Bearing and distance from section or subdivision corner _____



Section 2

Altitude at well _____

TYPE OF WELL: DRILLED Date Constructed 12-22-50

Depth drilled 952' Depth cased 61'

CASING RECORD:

16 INCH
12 INCH

FINISH:

AQUIFERS:

BASALT

WATER LEVEL:

71' (12-22-50)

PUMPING EQUIPMENT: Type COOK
Capacity 1500 G.P.M.

H.P. 125

WELL TESTS:

Drawdown _____ ft. after _____ hours _____ G.P.M.
Drawdown _____ ft. after _____ hours _____ G.P.M.

USE OF WATER MUNICIPAL Temp. _____ °F. _____, 19

SOURCE OF INFORMATION D-511

DRILLER or DIGGER GER. SCOTT

ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test _____

REMARKS:

Water Level Record

OWNER: MILTON FREEWATER OWNER'S NO. *6

Description of measuring point: _____

Date	Water Level Feet (below) Land Surface	DATE	WATER LEVEL	Date	Water Level Feet (below) Land Surface	Remarks
4-54	78	5-57	76	6-60	95	
10	95	9	82	8	85	
11	88	10	80	10	82	
12	85	11	72	3-61	97	
1-55	85	12	78	4	95	
2	82	1-58	80	11	100	
3	82	4	74	12	95	
4	78	9	85	1-62	100	
5	74	4-59	97	2-	98	
7	82	8	88	9	110	
12	86	9	85	11	105	
1-56	80	10	85	12	105	
2	76	11	84	1-63	100	
3	76	12	85	2	98	
4	73	1-60	87	5	110	
5	70	2	80	6	113	
8	80	3	100	8	119	
9	74	4	92			

REMARKS: _____

RECEIVED
NOV 6 1952

Application No. U 511
Permit No. U _____
Well No. 6

STATE ENGINEER
SALEM, 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 Oct 7, 1952

1. Location of well: NE 1/4 - SW 1/4 of Section 2 Twp. 5N Rge. 35 E.W. M.
2. Name of nearest natural surface stream Little Walla Walla River
3. Distance from well to that stream: 3200 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. Aug. 11 1950
6. Date well was completed Dec. 22 1950

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
<u>Soil & Dirty Gravel</u>	<u>At surface</u>	<u>6</u> ft.
<u>Soil & Dirty Gravel</u>	<u>55</u> ft.	<u>55</u> ft.
<u>Basalt (Broken)</u>	<u>55</u> ft.	<u>20</u> ft.
<u>" Black (Water Bl)</u>	<u>81</u> ft.	<u>120</u> ft.
<u>" " Creviced</u>	<u>201</u> ft.	<u>13</u> ft.
<u>" Broken</u>	<u>214</u> ft.	<u>63</u> ft.
<u>" Broken - Yellow Clay</u>	<u>277</u> ft.	<u>19</u> ft.
<u>" Clean - Hard</u>	<u>296</u> ft.	<u>55</u> ft.
<u>" Broken Fault Zone Matl.</u>	<u>351</u> ft.	<u>601</u> ft.

Remarks: Depth 952

WELL INFORMATION

8. Diameter of well _____ inches. Depth of well 952 feet.
9. Depth at which water was first encountered _____ feet.
10. Water level when completed: 31 71 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: _____

CAPACITY TEST

36. Date of test: May 14 1952 37. Temperature of water 59 °F. or ___ °C.
 38. Motor speed during test: 850 R.P.M to 1550 R.P.M.
 39. Test made by (weir, tank or other means): Open Pipe.

Pounds pressure	TOTAL HEAD	*Total lift in feet	Gallons per min.	°Feet to water level	□Draw-down	+Time
0 lbs.;	Gauge at pump	Total 0 ft. in.	0	71 ft.	0 ft.	0 M.
33 lbs.,	Gauge at pump	Total 79.5 ft. in.	515	77.5 ft.	6.5 ft.	45 M.
36 lbs.,	Gauge at pump	Total 85.3 ft. in.	840	83.3 ft.	12.3 ft.	30 M.
44 lbs.,	Gauge at pump	Total 102.6 ft. in.	1410	100.6 ft.	29.6 ft.	240 M.
43 lbs.,	Gauge at pump	Total 101.5 ft. in.	1400	99.5 ft.	28.5 ft.	15 M.
42 lbs.,	Gauge at pump	Total 101.0 ft. in.	985	99.0 ft.	28.0 ft.	15 M.
37 lbs.,	Gauge at pump	Total 88.75 ft. in.	565	87.0 ft.	16 ft.	15 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.

- * 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 56 ft.
 42. Water is discharged into: Reservoir via 8" discharge main
 43. Was water lowered to pump intake by test? (?)
 44. Remarks: In the installation we have head was 56 ft. for 24 hrs.

GENERAL INFORMATION

45. Name of contractor or other party who drilled or dug well: George Scott
 Address: Milton-Freewater
 46. Pump and motor were installed by: Pump, Pipe & Power Co
 Address: Box 7762 Portland Oregon
 47. Capacity test was made by: Pump, Pipe & Power Co. (G. Garbe)
 Address: Box 7762 Portland Oregon
 48. General remarks: _____

PUMP INFORMATION

Cook Rotation Pump

- 12. Manufacturer of pump: Reciprocating Pump Div. of Food Mach'y + Chem. Co
- 13. Address: 301 W. Avenue 26 Los Angeles (31) Calif.
- 14. Data on name or base plate: _____
- 15. Data on pump bowl assembly: _____
- 16. Size of pump: 12"
- 17. Rated capacity: 1500 gallons per minute.
- 18. Rated speed: 1750 revolutions per minute.
- 19. Number of stages: 7
- 20. Size of intake pipe: 8
- 21. Size of discharge pipe: 10
- 22. Length of intake pipe: 20
- 23. Length of discharge pipe: 150
- 24. Suction lift: (difference in elevation between water surface in well and pump) 29
- 25. Discharge lift: (difference in elevation between pump and end of discharge line) 150
- 26. Depth of pump intake below ground surface: 177 feet.
- 27. Remarks: _____

MOTOR OR ENGINE INFORMATION

- 28. Name of manufacturer: General Electric Co
- 29. Address: Schenectady N.Y.
- 30. Type of motor or engine: K Code F.
- 31. Data on name or base plate: _____
Frame 505 P 3 Phase 440 Volt.
60 C.Y. Fl. Amp. 150
50 C.Y. Fl. Amp 162
- 32. Rated horsepower: 125
- 33. Rated speed of motor or engine: 1760 revolutions per minute.

34. Rated Capacity of Pump (with described motor)	_____ g.p.m. at _____ 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: _____