

STATE ENGINEER
Salem, Oregon

UMAT
3930

OBSERVATION WELL
UMAT 3930
Well Record

STATE WELL NO. 5/35-2^N dad
COUNTY UMATILLA
APPLICATION NO.

OWNER: Milton-Freewater

MAILING ADDRESS:

LOCATION OF WELL: Owner's No. 3

CITY AND STATE:

1/4 1/4 Sec. T. N. E. S., R. W., W.M.

Bearing and distance from section or subdivision corner

Altitude at well 1.010⁺

Section

TYPE OF WELL: Drilled Date Constructed

Depth drilled 550 Depth cased 100

CASING RECORD:

20-16 inch

FINISH:

AQUIFERS:

Basalt

WATER LEVEL:

50 feet below land surface, June, 1946

PUMPING EQUIPMENT: Type Turbine H.P.

Capacity 1,500 G.P.M.

WELL TESTS:

Drawdown ft. after hours G.P.M.

Drawdown ft. after hours G.P.M.

USE OF WATER Public Supply Temp. °F., 19

SOURCE OF INFORMATION USGS

DRILLER or DIGGER

ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Milton-Fresator Description of source Pump 3

Analysis by MHP Date 11/12/52 Collected by _____ Date 6/25/52

RESULTS

	Parts per million
Turbidity _____	<u>4</u>
Color: Apparent _____ True _____	<u>3</u>
Odor: Hot _____ Cold _____	
Total Solids _____	<u>161</u>
Loss on Ignition _____	<u>67</u>
Silicon (SiO ₂) _____	<u>59</u>
Chloride (Cl) _____	<u>9.6</u>
Sulfate (SO ₄) _____	<u>6.2</u>
Calcium (Ca) _____	<u>18</u>
Magnesium (Mg) _____	<u>11</u>
Aluminum (Al) _____	<u>0</u>
Orthophosphates (PO ₄) _____	<u>.67</u>
Metaphosphates (PO ₃) ₆ _____	
Alkalinity (as CaCO ₃): Carbonate _____	<u>0</u>
Bicarbonate _____	<u>68</u>
Hardness (as CaCO ₃) _____	<u>68</u>
Sodium _____ (as Na) _____	<u>15</u>
Iron (Fe) _____	<u>.15</u>
Manganese (Mn) _____	<u>0</u>
Fluoride (F) _____	<u>.1</u>
Carbon Dioxide (CO ₂) _____	<u>2.9</u>
pH <u>7.9</u>	
Remarks _____	

Water Level Record

OWNER: MILTON FREEWATER OWNER'S NO. # 3

Description of measuring point: _____

Date	Water Level Feet (above) (below) Land Surface	DATE	WATER LEVEL	Date	Water Level Feet (above) (below) Land Surface	Remarks
6-46	50	10-55	80	7-61	83	
2-26-53	78	2-56	82	2-24-64	114	
2-54	98	5	78	3-17	109	
3-15	84	6	92	4-20	108	
3-30	105	7	105	5-18	106	
4	80	8	96	6-19	119	
5	78	11	85	7-6	129	
6	85	12	95	9-21	133	
8	90	1-57	88	10-26	132	
10-10	90	2	88	11-23	123	
10-30	86	3	84	12-21	116.6	
2-55	78	5-58	99			
3	78	10	98			
4	75	11	90			
5	78	12	86			
6	90	3-59	80			
8	92	5	90			
9	85	4-61	99			

REMARKS: _____

RECEIVED

5N/35-2J(1) dad
UMATILLA

DEC 30 1946

STATE ENGINEER
SALEM OREGON

Milton Fremont

Application No. U 191
Permit No. U 172
Well No. 3

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 December 28, 1946

1. Location of well: N.E. 1/4 of S.E. 1/4 of Section 2 Twp. 5 Rge. 35 E., W. M.
2. Name of nearest natural surface stream Walla Walla River
3. Distance from well to that stream: 2670 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 January 27, 1946
6. Date well was completed June 1, 1946

LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Gravel	At surface	40 ft.
Solid Rock	40 ft.	3 ft.
Black Basalt	43 ft.	13 ft.
Crevices and green shale	56 ft.	1 ft.
Black Basalt	57 ft.	9 ft.
Brown Rock	66 ft.	10 ft.
Black Basalt	76 ft.	14 ft.
Brown Rock	90 ft.	24 ft.
Black Basalt	114 ft.	20 ft.
Loose Gray Stone	134 ft.	3 ft.
Hard Black Basalt	137 ft.	4 ft.
Black Porous Rock	141 ft.	2 ft.

Remarks: Some crevices at 209-218 feet; brown rock caved at 285 feet.

WELL INFORMATION

8. Diameter of well 16" I.D. inches. Depth of well 550 feet.
9. Depth at which water was first encountered 60 feet.
10. Water level when completed: 50 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: 20" casing to depth of 43 feet. 16" casing inside of 20" and to depth of 100 feet below surface. Cement seal between 20" and 16" casing at 40-43 feet. Balance filled with cuttings.