

STATE ENGINEER  
Salem, Oregon

Lake  
179

OBSERVATION WELL  
Well Record

STATE WELL NO. 27/15-4G(1)  
COUNTY Lake  
APPLICATION NO. GR-347  
6-10917

OWNER: M. Y. Parks

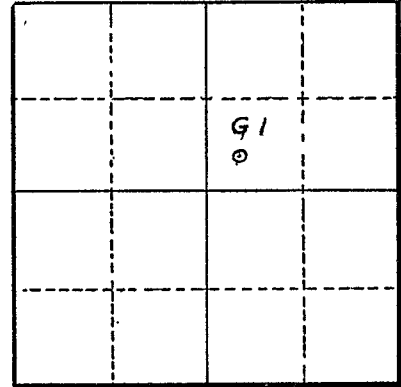
MAILING ADDRESS:

LOCATION OF WELL: Owner's No.

CITY AND STATE: Fort Rock, Oregon

SW 1/4 NE 1/4 Sec. 4 T. 27 N. S, R. 15 E. W., W.M.

Bearing and distance from section or subdivision corner



Section 4

Altitude at well 4,335

TYPE OF WELL: drilled Date Constructed 1922

Depth drilled 257 Depth cased 14

CASING RECORD:

FINISH: Open hole below casing

AQUIFERS: coarse agglomerate

WATER LEVEL: 38.70 ft. below land surface, Sept. 4, 1932

PUMPING EQUIPMENT: Type turbine H.P.  
Capacity 1500 G.P.M.

WELL TESTS:  
Drawdown 3.45 ft. after 50 min. hours pumping 1100 G.P.M.  
Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation Temp. 62 °F. October 24, 19 48

SOURCE OF INFORMATION USGS Report

DRILLER or DIGGER

ADDITIONAL DATA:  
Log Water Level Measurements X Chemical Analysis X Aquifer Test

REMARKS: Test well constructed by State in 1922.

### Water Level Record

OWNER: M.Y. Parks OWNER'S NO. \_\_\_\_\_

Description of measuring point: (1932) TOP OF PUMP BASE FLANGE AT DRILLED HOLE 0.5' BELOW L.S.D.

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
9-4-32	38.71	W.S.P. 777	9-25-41	41.40	W.S.P. 940
11-27-35	40.08		1-9-42	41.60	W.S.P. 948
6-20-36	40.38	W.S.P. 817	10-24-42	41.65	
9-2-36	40.23		5-23-43	41.75	W.S.P. 990
			9-15-43	44.34	Pumping
			6-12-45	44.52	W.S.P. 1027
8-28-38	40.61	W.S.P. 845	10-12-45	41.72	✓
12-14-38	40.71	✓	7-12-46	41.64	W.S.P. 1075
3-22-39	40.86	W.S.P. 886	5-11-47	42.13	W.S.P. 1100
6-21-39	41.07		10-9-47	42.25	
9-6-39	40.91		3-18-48	41.59	W.S.P. 1130
12-7-39	41.04		8-5-48	43.36	✓ Pumping
5-18-40	43.59	W.S.P. 910	10-24-48	41.54	✓
10-6-40	43.12	✓	3-12-49	41.60	W.S.P. 1160
11-18-40	41.22	✓	7-4-49	44.45	✓
12-21-40	41.75	W.S.P. 940	11-14-49	41.47	✓
3-29-41	41.42	W.S.P. 940	2-18-50	41.52	W.S.P. 1169
6-9-41	41.48	✓	11-4-50	41.27	

REMARKS: Water level measurements published for period 1935-41 are in feet above datum plane which is 48.71 feet below land surface.

See Hydrograph

### Water Level Record

OWNER: M Y Parks OWNER'S NO. \_\_\_\_\_

Description of measuring point: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
3-23-51	41.10	WSP 1195	1-27-55	38.32	WSP-1408
9-5-51	40.54	✓	2-19-55	38.53	✓
12-18-51	40.40	✓	2-23-55	38.28	✓
			3-28-55	38.21	✓
			4-24-55	38.21	✓
			5-2-55	38.21	✓
			5-29-55	38.25	✓
4-15-52	40.26	WSP 1225	6-26-55	38.61	✓
6-18-52	44.15 P	" "	7-29-55	39.39	✓
9-6-52	39.89	" "	8-28-55	38.37	✓
12-27-52	39.77	" "	9-15-55	38.12	✓
4-1-53	39.64	WSP 1269	9-23-55	38.11	✓
10-16-53	39.16	" "	9-29-55	38.12	✓
1-20-54	38.67	WSP-1325	10-27-55	38.13	✓
4-14-54	38.82	✓	11-24-55	38.14	✓
10-15-54	38.63	✓	12-28-55	38.16	✓
12-23-54	38.30	✓	1-25-56	38.04	
<del>1-27-55</del>	<del>38.32</del>		2-25-56	37.87	

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Water Level Record

OWNER: M. Y. Parks OWNER'S NO. \_\_\_\_\_

Description of measuring point: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date	Water Level Feet (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
3-30-56	37.76		5-24-57	39.20	
4-16-56	37.80		5-28-57	36.96	
4-27-56	38.69	??	7-25-57	36.79	
5-24-56	37.56		8-10-57	39.11	
5-27-56	37.58		8-29-57	36.92	
6-27-56	38.03	Pumped recently	9-27-57	36.65	
7-20-56	37.41		10-2-57	36.49	
8-26-56	37.60	Pumped recently	12-2-57	36.54	
9-27-56	37.07		12-26-57	36.47	
10-27-56	37.01				
11-26-56	37.07				
12-3-56	37.95				
1-2-57	37.00				
1-27-57	36.98				
2-27-57	36.94				
3-26-57	36.89				
4-16-57	36.87				
5-1-57	39.23				

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STATE ENGINEER  
Salem, Oregon

State Well No. 27/15-46(1)  
County LAKE  
Application No. \_\_\_\_\_

### Chemical Analysis

OWNER M.Y. Parks OWNER'S NO. \_\_\_\_\_  
ANALYST U.S. Geological Survey Address \_\_\_\_\_  
Date of Collection Oct 24 1948  
Point of Collection \_\_\_\_\_

	P.P.M.	E.P.M.
Silica (SiO <sub>2</sub> )	54	
Iron (Fe) Total	.04	
Manganese (Mn)		
Calcium (Ca)	31	1.55
Magnesium (Mg)	21	1.72
Sodium (Na)	176	7.65
Potassium (K)	15	.38
Bicarbonate (HCO <sub>3</sub> )	330	5.41
Carbonate (CO <sub>3</sub> )		
Sulfate (SO <sub>4</sub> )	115	2.39
Chloride (Cl)	<del>1.0</del> 121	<del>.03</del> 3.41
Fluoride (F)	.6	.03
Nitrate (NO <sub>3</sub> )	4.3	.07
Boron (B)	.02	.01
Dissolved Solids	128	
Hardness as CaCO <sub>3</sub>	44	
Specific Conductance (Micromhos at 25°C)		1,100
pH		8.1
Percent Sodium		43
Sodium Absorption Ratio (S.A.R.)		
CLASS		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Report Page No. 35

WATER RESOURCES DIVISION

GROUND WATER BRANCH

COUNTY Lake

STATE Oregon

WATER LEVELS AND ARTESIAN PRESSURES IN OBSERVATION WELLS

27/15-4G1. M. Y. Parks. Drilled irrigation artesian well in basaltic agglomerate, diameter 16 inches, depth 257 feet. Land-surface datum is about 4,335 feet above msl. NP is top of pump base flange at 15d.

35.92 Mar. 26 59  
35.98 Dec 9 58

highest water level 38.30 below lsd, ~~Dec 17~~ 19 ~~54~~; lowest 43.12 below lsd, Oct. 6, 19 40  
Records available 1932, 1935-36, 1938-55 Water level below lsd

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1955		1956		1957		Feb 25	36.40
Jan. 27	38.32	Jan 29	38.04	Jan 2	37.00	Mar 27	36.32
Feb. 19	38.53	Feb 25	37.87	27	36.98	Apr 25	36.35
23	38.28	Mar 30	37.76	Feb 27	36.94	29	36.33
Mar. 28	38.21	Apr 16	37.80	Mar 26	36.89	May 29	36.95
Apr. 24	38.21	Apr 27	38.69	Apr 16	36.87	June 27	36.60
May 2	36.21	May 24	37.56	May 1	39.23	July 27	36.27
29	38.25	May 27	37.58	May 2	37.06	Aug 8	38.80
June 26	38.61	June 27	38.03	May 24	39.30	Sept 4	39.65
July 29	39.39 <sup>b</sup>	July 20	37.41	May 28	36.96	Sept 27	36.05
Aug. 28	38.33	Aug 26	37.60	July 25	36.79	Oct 29	36.05
Sept. 15	38.12	Sept 27	37.07	Aug 10	39.11	Nov 25	36.02
23	38.11	Oct 27	37.01	29	36.92	Dec 9	35.98
29	38.12	Nov 26	37.07	Sept 27	36.65	1959	
Oct. 27	38.13	Dec 3	37.95	Oct 2	36.49	Jan 2	35.94
Nov. 29	38.14	Jan 2	37.00	Dec 2	36.54	27	35.95
Dec. 28	38.16	Jan 27	36.98	Dec 26	36.47	Feb 26	35.98
				1958		Mar. 25	35.92
				Jan 14	36.50	Apr 23	36.23
				Jan 27	36.46	Apr 27	36.20



### Water Level Record

OWNER: M Y Parks OWNER'S NO. \_\_\_\_\_

Description of measuring point: (1932) TOP OF 8 IN. CASING 0.7' ABOVE L.S.D.

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
9-4-32	39.62	W.S.P. 777	1-9-42	42.49	W.S.P. 948
11-18-35	41.05	do.	10-24-42	42.55	do.
9-2-36	41.14	W.S.P. 817	5-23-43	42.73	W.S.P. 990
			9-15-43	42.27	do.
			6-12-45	43.26	W.S.P. 1027
8-28-38	41.54	W.S.P. 845	10-12-45	43.07	do.
12-14-38	41.63	do.	<del>No MEASUREMENTS IN 1946</del>		
3-22-39	41.29	W.S.P. 886	<del>7-12-46</del>	<del>41.64</del>	<del>W.S.P. 1095</del>
6-21-39	41.94	do.	5-11-47	43.09	W.S.P. 1100
9-27-39	41.89	do.	10-9-47	43.62	do.
12-7-39	41.95	do.	3-18-48	43.00	W.S.P. 1120
5-18-40	42.52	W.S.P. 910	8-5-48	43.44	do.
10-6-40	42.00	do.	10-25-48	43.02	do.
11-18-40	42.10	do.	3-12-49	43.03	W.S.P. 1160
12-21-40	42.13	do.	7-4-49	43.27	✓
			8-26-49	43.13	
			11-14-49	42.89	✓
3-29-41	42.27	W.S.P. 940	2-18-50	42.92	W.S.P. 1169
6-9-41	42.97	do.	7-12-50	43.23	do.
9-25-41	42.29	do.	11-4-50	42.69	do.

REMARKS: water level measurements published for period 1935-41  
are in feet above arbitrary datum which is 49.62 feet  
below land surface.



### Water Level Record

OWNER: M.Y. Parks OWNER'S NO. \_\_\_\_\_

Description of measuring point: \_\_\_\_\_

USGS

Date	Water Level Feet (below) Land Surface	Remarks	Date	Water Level Feet (below) Land Surface	Remarks
3-23-51	42.49	WSP-1195	1-20-54	40.28	WSP-1325
9-5-51	41.94	✓	4-14-54	<del>44.00</del> 40.60	✓
12-18-51	41.85	✓	7-13-54	40.40	✓
			9-3-54	42.25	✓
			12-23-54	39.60	✓
			5-2-55	39.63	WSP-1408
			7-19-55	38.90	✓
			9-15-55	41.27	✓
			9-23-55	39.52	✓
			10-27-55	39.53	✓
			4-6-56	39.40	
			5-24-56	<del>39.20</del> 38.50	
4-15-52	41.75	WSP 1225	8-22-56	40.28	
6-18-52	42.16	" "	8-28-56	38.85	
9-6-52	41.59	" "	12-3-56	38.59	
12-27-52	41.16	" "	4-16-57	38.53	USGS
4-1-53	41.04	WSP-1269	5-24-57	39.06	"
7-8-53	41.24	✓	8-10-57	38.93	"

REMARKS: \_\_\_\_\_

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