

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 27/15-24N(1)
COUNTY Lake
APPLICATION NO. U-439

OWNER: Darrel G. Bowen Arrow Cap Ranch

MAILING

ADDRESS: P.O. Box 7752

LOCATION OF WELL: Owner's No. 1

CITY AND

STATE: Portland, Oregon

SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 24 T. 27 N. S. R. 15 E. W., W.M.

Bearing and distance from section or subdivision

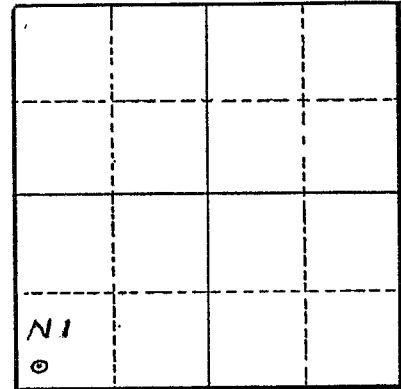
corner N. 40° 08' E., 404 ft. from SW cor. Sec. 24

Altitude at well 4,315 Barometric Traverse USGS

TYPE OF WELL: drilled Date Constructed 1947

Depth drilled 351 Depth cased

CASING RECORD: 12 inch



Section 24

FINISH:

AQUIFERS: sand

WATER LEVEL: 32.91 ft. below land surface, Oct. 21, 1948

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

WELL TESTS:
Drawdown 15.23 ft. after 15 min. hours pumping 250 G.P.M.
Drawdown 95 ft. after hours pumping 800 G.P.M.

USE OF WATER Irrigation 43 $\frac{1}{2}$ acres Temp. 50 °F. December 3, 1948
SOURCE OF INFORMATION USGS U-439

DRILLER or DIGGER

ADDITIONAL DATA:

Log ☒ Water Level Measurements ☒ Chemical Analysis ☒ Aquifer Test

REMARKS:

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Well Log

Owner: Arrow Gap Ranch Owner's No. 1

Driller: J. T. Miller Date Drilled 1947

CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
Soil sandy	0	6	6
Older Valley fill:			
Clay	6	34	28
Sandstone	34	54	20
Clay, yellow	54	74	20
Clay, green	74	98	24
Sand and clay, gray, some water	98	110	12
Clay, gray	110	124	14
Clay, brown	124	150	26
Sand, white, water bearing	150	160	10
Clay, blue	160	190	30
Pleistocene volcanic rocks and interbedded older valley fill:			
Rock, soft, black, streaks of black sand	190	202	12
Clay, gray	202	220	18
Clay, brown, and white rock	220	228	8
Clay, blue	228	243	15
Clay, gray	243	265	22
Clay, brown, and some sand	265	285	20
Rock, soft, black	285	293	8
Clay, sandy, gray	293	330	37
Clay, broken, and gravel	330	341	11
"Lime", soft, brown	341	342	1
Rock, soft, black, and white sand	342	346	4
Rock, lava, hard	346	351	5

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State Well No. 29/5-24N(1)
County LAKE
Application No. 0439

Chemical Analysis

OWNER Arrow Gap Ranch OWNER'S NO. #1
ANALYST U.S. Geological Survey Address _____
Date of Collection December 3, 1948
Point of Collection _____

	P.P.M.	E.P.M.
Silica (SiO ₂)	45	
Iron (Fe) Total	.52	
Manganese (Mn)	.4	
Calcium (Ca)	8.4	.42
Magnesium (Mg)	5.7	.47
Sodium (Na)	16	.70
Potassium (K)	1.9	.05
Bicarbonate (HCO ₃)	92	1.51
Carbonate (CO ₃)		
Sulfate (SO ₄)	2.9	.06
Chloride (Cl)	2.2	.06
Fluoride (F)	.2	.01
Nitrate (NO ₃)	.2	.00
Boron (B)	.02	.01
Dissolved Solids	128	
Hardness as CaCO ₃	44	
Specific Conductance (Micromhos at 25°C)	145	
pH	8.1	
Percent Sodium	43	
Sodium Absorption Ratio (S.A.R.)		
CLASS		

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County Lake

Application No. U-439

Water Level Record

OWNER: Paul W. Lo Made ^{Arrow} (Gap Ranch) OWNER'S NO. #1

Description of measuring point: Top of measuring port at base of pump
on east side. (CHANGED (10-19-61) TO POINT ON TIMBERS 0.5' ABOVE LSD

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
10/21/48	32.91	WSGS.			
5/24/56	29.10	WSB.			
8-29-56	59.60	Pump operating			
10-16-56	28.62	WSB.			
5-2-57	28.33	WSB			
8-20-57	-	WSB wet tape			
10-23-57	28.18	WSB			
4-22-58	27.93	WSB.			
10-14-58	27.22	WSB			
5-12-59	37.16	JES-WSB			
10-14-59	27.74	WSB			
4-26-60	27.61	JES-WSB			
10-26-60	Pumping	WSB			
5-3-61	28.09	WSB			
10-19-61	28.08	WSB & RD			

REMARKS: See hydrograph