

STATE ENGINEER
Salem, Oregon

Harney
302

Well Record

STATE WELL NO. 23/30-23L(1)
COUNTY Harney
APPLICATION NO. _____

OWNER: City of Hines MAILING ADDRESS: _____

LOCATION OF WELL: Owner's No. _____ CITY AND STATE: _____

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 23 T. 23 S., R. 30 $\frac{E}{W}$, W.M.

Bearing and distance from section or subdivision corner _____

Altitude at well 4314.9'

TYPE OF WELL: _____ Date Constructed _____

Depth drilled 340' Depth cased _____

Section _____

CASING RECORD:

12-inch diameter

FINISH:

AQUIFERS:

WATER LEVEL:

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

WELL TESTS:

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

USE OF WATER public service Temp. 62 °F., 19 _____

SOURCE OF INFORMATION #22 WSP 841

DRILLER or DIGGER _____

ADDITIONAL DATA:

Log _____ Water Level Measurements _____ Chemical Analysis _____ Aquifer Test _____

REMARKS:

Harney

Oregon State Board of Health 256

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Hines Description of source Well #1

Analysis by MHP Date 12/17/54 Collected by _____ Date 7/22/54

RESULTS

	Parts per million
Turbidity	7
Color: Apparent	3
Odor: Hot	Cold
Total Solids	196
Loss on Ignition	14
Silicon (SiO ₂)	62
Chloride (Cl)	7.5
Sulfate (SO ₄)	31
Calcium (Ca)	16.8
Magnesium (Mg)	3.2
Aluminum (Al)	Trace (less than .05 ppm)
Orthophosphates (PO ₄)	.05
Metaphosphates (PO ₃) ₆	
Alkalinity (as CaCO ₃): Carbonate	0
Bicarbonate	62
Hardness (as CaCO ₃)	70
Sodium as Na (as Na)	39
Iron (Fe)	0
Manganese (Mn)	0
Fluoride (F)	.1
Carbon Dioxide (CO ₂)	2
pH	7.9
Remarks	

Harney

23/30-23L(1)

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Wells Description of source Wells

Analysis by J.P. Date 3/17/54 Collected by Date 2/19/54

RESULTS

	Parts per million
Turbidity	
Color: Apparent	True <u>1</u>
Odor: Hot	Cold <u></u>
Total Solids	<u>212</u>
Loss on Ignition	<u>63</u>
Silicon (SiO ₂)	<u>35</u>
Chloride (Cl)	<u>3.5</u>
Sulfate (SO ₄)	<u>11.9</u>
Calcium (Ca)	<u>11.0</u>
Magnesium (Mg)	<u>7.3</u>
Aluminum (Al)	<u>0</u>
Orthophosphates (PO ₄)	<u>.07</u>
Metaphosphates (PO ₃) ₆	<u></u>
Alkalinity (as CaCO ₃): Carbonate	<u>0</u>
Bicarbonate	<u>81</u>
Hardness (as CaCO ₃)	<u>76</u>
Sodium and Potassium (as Na)	<u>20</u>
Iron (Fe)	<u>Trace (less than .05 ppm)</u>
Manganese (Mn)	<u>0</u>
Fluoride (F)	<u></u>
Carbon Dioxide (CO ₂)	<u></u>
pH <u>7.3</u>	
Remarks <u></u>	

STATE ENGINEER
Salem, Oregon

State Well No. 23/30-23L1

County Harney

Application No.

Chemical Analysis

OWNER City of Hines OWNER'S NO.

ANALYST U.S. Geological Survey Address

Date of Collection Aug. 16, 1931

Point of Collection

	P.P.M.	E.P.M.
Silica (SiO ₂)		
Iron (Fe) Total		
Manganese (Mn)		
Calcium (Ca)	14.	
Magnesium (Mg)	16	
Sodium (Na)	} 16.	
Potassium (K)		
Bicarbonate (HCO ₃)	102.	
Carbonate (CO ₃)	0.	
Sulfate (SO ₄)	4.	
Chloride (Cl)	2.5	
Fluoride (F)		
Nitrate (NO ₃)	2.0	
Boron (B)		
Dissolved Solids	112.	
Hardness as CaCO ₃	57.	
Specific Conductance (Micromhos at 25°C)		
pH		
Percent Sodium		
Sodium Absorption Ratio (S.A.R.)		
CLASS		