

STATE ENGINEER
Salem, Oregon

UMAT
2049

Well Record

STATE WELL NO. 4N/28-10P(1)
COUNTY Umatilla
APPLICATION NO. U-179

OWNER: City of Hermiston

MAILING
ADDRESS:

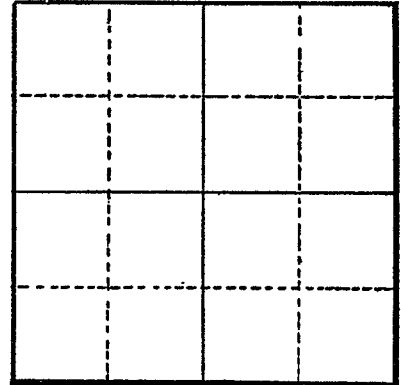
LOCATION OF WELL: Owner's No. 1

CITY AND
STATE:

Hermiston, Oregon

SE 1/4 SW 1/4 Sec. 10 T. 4 N.
S., R. 28 W., W.M.

Bearing and distance from section or subdivision
corner



Section

Altitude at well

TYPE OF WELL: Drilled Date Constructed 1922-24

Depth drilled 450 Depth cased

CASING RECORD:

8-inch well

FINISH:

AQUIFERS:

Basalt

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 Municipal Temp. °F., 19.....

SOURCE OF INFORMATION U-179, U.S.G.S. report

DRILLER or DIGGER

ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

Well flowed when drilled

SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Ermaiston Description of source #1 well offAnalysis by MHP Date 3/8/55 Collected by _____ Date 1/13/55
well not in operation

RESULTS

	<u>Parts per million</u>
Turbidity _____	2
Color: Apparent _____ True _____	5
Odor: Hot _____ Cold _____	
Total Solids _____	275
Loss on Ignition _____	60
Silicon (SiO ₂) _____	72
Chloride (Cl) _____	21
Sulfate (SO ₄) _____	9.5
Calcium (Ca) _____	4.0
Magnesium (Mg) _____	1.6
Aluminum (Al) _____	0
Orthophosphates (PO ₄) _____	0
Metaphosphates (PO ₃) ₆ _____	
Alkalinity (as CaCO ₃): Carbonate _____	12
Bicarbonate _____	115
Hardness (as CaCO ₃) _____	127
Sodium and potassium (as Na) _____	90
Iron (Fe) <u>Trace (less than .05 ppm)</u>	
Manganese (Mn) _____	0
Fluoride (F) _____	1.6
Carbon Dioxide (CO ₂) _____	1.0
pH <u>8.4</u>	
Remarks <u>Potassium (K)</u>	10

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Chemical Analysis

OWNER City of Hermiston OWNER'S NO. 1 (McMug)
ANALYST Char. Hen. Laboratories Inc Address Portland
Date of Collection 9-13-62
Point of Collection _____

	P.P.M.	E.P.M.
Silica (SiO ₂)	61.5	
Iron (Fe) Total	0.04	
Manganese (Mn)	3.30	
Calcium (Ca)	22.6	
Magnesium (Mg)	8.5	
Sodium (Na)	67.0	
Potassium (K)	10.0	
Bicarbonate (HCO ₃)	145	
Carbonate (CO ₃)		
Sulfate (SO ₄)	59.7	
Chloride (Cl)	12.0	
Fluoride (F)	0.9	
Nitrate (NO ₃)	0.00	
Boron (B)		
<u>Aluminum</u>	1.0	
Dissolved Solids	260	
Hardness as CaCO ₃	92	
Specific Conductance (Micromhos at 25°C)		
pH		8.20
Percent Sodium		
Sodium Absorption Ratio (S.A.R.)		
CLASS		

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State Well No. 41/28-10P1
County UMATILLA
Application No. U179

Chemical Analysis

OWNER City of Hermiston OWNER'S NO. 1 (McMoy)
ANALYST Charlton Laboratories Inc. Address Portland
Date of Collection 7-21-61
Point of Collection _____

	P.P.M.	E.P.M.
Silica (SiO ₂)	58.5	
Iron (Fe) Total	0.03	
Manganese (Mn)	0.00	
Calcium (Ca)	23.3	
Magnesium (Mg)	8.9	
Sodium (Na)	50.5	
Potassium (K)	15.5	
Bicarbonate (HCO ₃)	145	
Carbonate (CO ₃)	X	
Sulfate (SO ₄)	61.7	
Chloride (Cl)	11.0	
Fluoride (F)	0.62	
Nitrate (NO ₃)	0.00	
Boron (B)		
<u>Aluminum</u>	0.8	
Dissolved Solids	354	
Hardness as CaCO ₃	95	
Specific Conductance (Micromhos at 25°C)		
pH		8.15
Percent Sodium		
Sodium Absorption Ratio (S.A.R.)		
CLASS		

STATE ENGINEER
Salem, Oregon

State Well No. 4N/28-10P(1)
County UMATILLA
Application No. 0179

Chemical Analysis

OWNER City of Hermiston OWNER'S NO. _____
ANALYST Oregon State Board of Health Address Portland
Date of Collection Aug. 3 1950
Point of Collection _____

	P.P.M.	E.P.M.
Silica (SiO ₂)		
Iron (Fe) Total		
Manganese (Mn)		
Calcium (Ca)		
Magnesium (Mg)		
Sodium (Na)		
Potassium (K)		
Bicarbonate (HCO ₃)		
Carbonate (CO ₃)		
Sulfate (SO ₄)		
Chloride (Cl)	14	
Fluoride (F)	.87	
Nitrate (NO ₃)		
Boron (B)		
Dissolved Solids	329	
Hardness as CaCO ₃	66	
Specific Conductance (Micromhos at 25°C)		
pH		8.4
Percent Sodium		
Sodium Absorption Ratio (S.A.R.)		
CLASS		