

STATE ENGINEER
Salem, Oregon

U-174

Well Record

UMAT
90

STATE WELL NO. 132-1760
COUNTY UMATAH
APPLICATION NO. _____

well #1

OWNER: City of Pilot Rock MAILING ADDRESS: _____

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

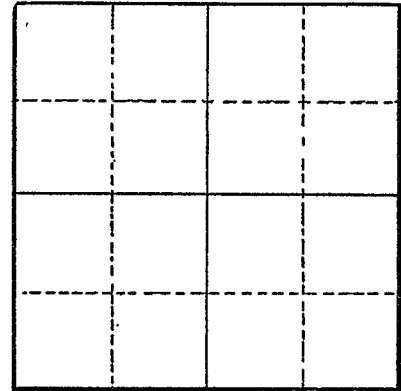
SW 1/4 NE 1/4 Sec. 17 T. 1 S., R. 32 E., W.M.

Bearing and distance from section or subdivision corner _____

Altitude at well _____

TYPE OF WELL: Drilled Date Constructed _____

Depth drilled 309' Depth cased 31'



Section _____

CASING RECORD:

10"

FINISH:

AQUIFERS:

BASALT

WATER LEVEL:

Flowing at land surface

PUMPING EQUIPMENT: Type Centrifugal 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 supply Temp. 65 °F. _____, 19 _____

SOURCE OF INFORMATION USGS report 1986

DRILLER or DIGGER _____

ADDITIONAL DATA:

Log Water Level Measurements _____ Chemical Analysis _____ Aquifer Test _____

REMARKS:

Flowed 1,420 gpm in 1946; well supplied an estimated 900 ac-ft of water during 1955; see table 2 for 1994 table 3 for partial chemical analysis of the water.

Well Log

Owner: City of Pilot Rock Owner's No.
Driller: A. M. Edwards Date Drilled 1945

CHARACTER OF MATERIAL	(Feet below land surface)		Thickness (feet)
	From	To	
soil	0	10	10
gravel	10	14	4
hardpan, very hard	14 -	19	5
hardpan	19	27	8
basalt, blue, hard	27	50	23
basalt, porous, water-bearing - <i>water level at 10'</i>	50	65	15
basalt, very hard	65	135	70
basalt, porous, water-bearing; <i>water level at 4 ft.</i>	135	158	23
basalt, hard	158	177	19
basalt, porous, water-bearing; <i>drill cuttings washed away.</i>	177	182	5
basalt, hard	182	197	15
basalt, soft & hard	197	215	18
basalt, with seams & crevices	215	217	2
basalt, moderately hard	217	232	15
basalt, with seams & crevices	232	235	3
basalt, porous, water-bearing; water <i>flows over top of casing</i>	235	250	15
basalt, moderately hard	250	288	38
basalt, crevices & broken rock	288	290	2
basalt, fairly hard	290	293	3
basalt, porous, water-bearing; <i>water overflowing casing at an estimated 700 gpm</i>	293	309	16

Water Level Record

OWNER: City of Pilot Rock OWNER'S NO. #1

Description of measuring point: owner's Pressure Gage 1.5 ft. above LSD

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
1-24-61	To install Pressure Gage	WSB			
5-26-61	+10" or +23.1	WSB			
8-24-61	9" - 20.8'	WSB			
11-8-61	8" - 18.4'	RD+WSB			

REMARKS:

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SANITARY ENGINEERING LABORATORY

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Filst Rock Description of source Artesian well
 Analysis by MEP Date 1/1/54 Collected by _____ Date 2/19/54

RESULTS

	<u>Parts per million</u>
Turbidity _____	
Color: Apparent _____ True _____	1
Odor: Hot _____ Cold _____	
Total Solids _____	225
Loss on Ignition _____	59
Silicon (SiO ₂) _____	52
Chloride (Cl) _____	8.8
Sulfate (SO ₄) _____	16
Calcium (Ca) _____	27
Magnesium (Mg) _____	7.5
Aluminum (Al) _____	0
Orthophosphates (PO ₄) _____	Trace (less than .05)
Metaphosphates (PO ₃) ₆ _____	
Alkalinity (as CaCO ₃): Carbonate _____	0
Bicarbonate _____	118
Hardness (as CaCO ₃) _____	120
Sodium _____ (as Na) _____	27
Iron (Fe) _____	.1
Manganese (Mn) _____	0
Fluoride (F) _____	.3
Carbon Dioxide (CO ₂) _____	4.5
pH _____	7.7
Remarks _____	

UMAT

1/32-17G(1)

UMATILLA

City of Pilot Rock

Well No 1 recased in 1956 by
D.K. Smith of Wolla Wolla.

120' of 12" casing - Cemented from
0 to 120 ft

12 lbs pressure. Spring 1957

Flow = 800 gpm