

STATE ENGINEER
Salem, Oregon

UMAT 1314
Well Record

STATE WELL NO. 3N/29-16A(1)
COUNTY Umatilla Co.
APPLICATION NO. U-175

OWNER: City of Echo

MAILING
ADDRESS: _____

LOCATION OF WELL: Owner's No. 2

CITY AND
STATE: _____

NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 16 T. 3 N. S., R. 29 E. W., W.M.

Bearing and distance from section or subdivision

corner _____

Altitude at well _____

TYPE OF WELL: drilled Date Constructed 1945-47

Depth drilled 520 Depth cased _____

Section 16

CASING RECORD:

12"

10"

8"

FINISH: _____

AQUIFERS: _____

WATER LEVEL:

300' below land surface

PUMPING EQUIPMENT: Type _____

Capacity _____ G.P.M.

H.P. _____

WELL TESTS:

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

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

USE OF WATER None-abandoned 1951 Temp. _____ °F. _____, 19_____

SOURCE OF INFORMATION U-175

DRILLER or DIGGER _____

ADDITIONAL DATA:

Log Water Level Measurements _____ Chemical Analysis _____ Aquifer Test _____

REMARKS:

When in use, well furnished about 260 g.p.m.

UMAT 1314

Wagner, N.S., 1949, Ground-water studies in Umatilla and Morrow Counties:
Oregon Dept. of Geol. + Min. Ind. Bull. 41.

Boho City _____ Index number -- 77-U
Well name _____ File number
(Code: Tp., R., Sec., & Sec.)

LOCATION:

Umatilla County

Umatilla Quadrangle

Tp. 16 Range 27N Section 16 Fractional section SW 1/4 of NE 1/4

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

STATISTICS:

Well type-Dug _____ Elevation (land surface) _____ ft. Use status-domestic* _____ Well status-
Drilled above _____ industrial _____ abandoned
Driven _____ below _____ irrigation _____ dry hole
Final depth 520' _____ municipal producer
*includes stock wells

City of Echo _____ A. N. Edwards
Owners name _____ Original drillers name
Address _____ Lexington, Oregon
Date of drilling Oct. 1945 to Sept. 1947

This record compiled by H.B.W. from _____ Deepened _____
date secured from the following sources: re-cased _____
cleaned _____ by _____

Driller _____
Date compiled October 1947 Date _____

Material	Thickness (feet)	Depth (feet)	Remarks
Soil	4	4	Casing log and pump test
Gravel and hardpan	26	30	data entered on last log
Dirt	5	35	sheet.
Loose sand and gravel	2	37	
Red clay	7	44	
Loose gravel	2	46	
Hardpan	6	52	
Rock	4	56	
Red clay	6	62	
Soft red rock	10	72	70 - some water
Soft red rock	5	77	at 75 - lost most water
Pea gravel	1 1/2	78 1/2	
Red clay	5	83 1/2	
Yellow rock with boulders	14 1/2	98	
Blue rock, broken and mud	12	110	Some water
Blue rock	5	115	
Hard rock, mud and blue clay			
between layers of boulders	10	125	
Solid rock	8	133	
Broken "cube" basalt	9	142	Very slow drilling
Blue gray basalt	10	152	
Broken "cube" basalt* 8" followed by very hard basalt	14	166	
Blue and gray basalt, 8" seams of brown shale followed by	18	184	
Blue and gray basalt	30	214	
Shale and rock in 6" ave. layers	18	232	
Hard, solid clay	7	239	
Green shale	2	241	
Green shale, hard	16	257	Water at 257
Basalt	6	263	
Basalt - extremely hard	11	274	
Blue basalt - alternate soft and hard layers	4	278	
Brown rock	8	286	
Hard basalt	4	290	
Alternate hard rock and clay in 6" to 8" layers	6	296	
Crevices	4	300	Water dropped 28'
Blue rock and some clay layers	28	328	
Hard basalt	62	390	
Extremely hard basalt	16	406	
Seams and crevices in basalt	4	410	Water dropped 50'
Very hard basalt	1	411	
Shale	1	412	
Blue rock with crevices	8	420	
Very hard gray basalt	5	425	

(continued)

Medium soft blue rock	12	437	
Black basalt	5	442	Water at 442
Boulder and crevice	1	443	Water and some sand. Drilled 5 hours with no penetration.
Black basalt (and water course)	17	460	Water dropped to 220' level
Hard boulders and soft spots	30	490	
Green clay seams a few inches thick between basalt layers	8	498	
Hard basalt	22	520	Bottom of hole
Casing log:			
12 1/2" hole to 169'			
10 1/2" hole to 169' to 336'			
8 1/2" hole 336' to 520'.			
Cased 169' with 10" casing.			
Pump test with 6" deep well pump at capacity output gave yield of 200 g.p.m.			
Drawdown with above equipment was 60' at 100 g.p.m. - No difference noted with greater yield.			
Temp. H ₂ O is 67°F.			

Garbert Well name _____ Index number -- 119-N
2S-23E-32
File number
(Code: Tp., R., Sec., & Sec.)

LOCATION:

Morrow County

Unmapped Quadrangle

Tp. 2S Range 23E Section 32 Fractional section NE 1/4

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

STATISTICS:

Well type-Dug _____ Elevation (land surface) _____ ft. Use status-domestic* Well status-
Drilled above _____ industrial _____ abandoned
Driven _____ below _____ irrigation _____ dry hole
Final depth 278' _____ municipal _____ producer
*includes stock wells

Garbert Holmes Fred Nicholson
Owners name _____ Original drillers name
Address _____ Portland, Oregon Address _____ Ione, Oregon
Date of drilling Summer, 1947

This record compiled by W.S.W. from _____ Deepened _____
date secured from the following sources: re-cased _____
cleaned _____ by _____

Driller and Morrow County Recorder
Date compiled October 1947 Date _____

Material	Thickness (feet)	Depth (feet)	Remarks
Top soil	2 1/2	2 1/2	5 5/8" hole.
Shelly boulder formation	24 1/2	27	
Soft formation with little clay	8	35	
Blue basalt	30	69	Trace water at 50 feet.
Hard gray basalt	13	82	
Brown porous rock	7	89	
Hard blue rock	7	96	
Black to brown porous rock	14	110	
Moderately hard blue rock	26	136	
Very hard gray rock	19	155	
Hard blue porous basalt	5	160	
Hard solid blue basalt	6	166	
Brown porous rock	6	172	
Moderately hard black rock	8	180	
Gray rock	4	184	
Brown porous rock	10	194	