

STATE ENGINEER
Salem, Oregon

MORROW
947

OBSERVATION WELL
MORROW Well Record

STATE WELL NO. 4N/27-20M(1)
COUNTY MORROW
APPLICATION NO. U-199

OWNER: UNION PACIFIC R.R. MAILING ADDRESS: ORDUANCE

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

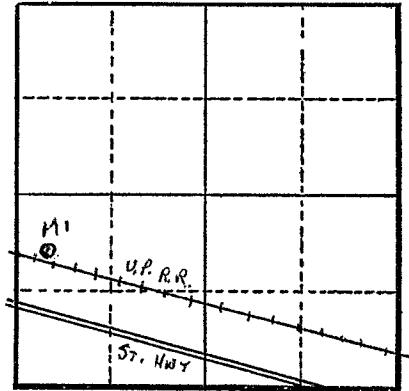
NW 1/4 SW 1/4 Sec. 20 T. 4 N. S. R. 27 E. W. W.M.

Bearing and distance from section or subdivision corner

Altitude at well 540'

TYPE OF WELL: DRILLED Date Constructed 1945-JUNE 29

Depth drilled 457' Depth cased 175'



Section 20

CASING RECORD:

12 INCH

FINISH:

AQUIFERS:

BASALT

WATER LEVEL:

59.89' (5-3-65)

PUMPING EQUIPMENT: Type H.P.
Capacity 300 G.P.M.

WELL TESTS:

Drawdown 3 ft. after hours 300 G.P.M.
Drawdown ft. after hours G.P.M.

USE OF WATER NONE Temp. °F., 19

SOURCE OF INFORMATION FERM- U-181

DRILLER or DIGGER

ADDITIONAL DATA:
Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

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4N/27-20M(1)
 Application No. U-199
 Permit No. U 181
 Well ~~No.~~ at Munley

REPORT ON COMPLETION OF WELL

(Note: This report should be submitted to the State Engineer, Salem, Oregon, as soon as possible after the well is completed. If more than one well is covered by this permit, a separate report shall be filed for each)

Date of Report January 23rd, 19 47

1. Location of well: NW¹SW¹ of Section 20 Twp. 4 N Rge. 27E, W. M.
2. Name of nearest natural surface stream Umatilla River
3. Distance from well to that stream: 29,400 feet.
4. If the well is less than 1300 feet from a natural surface stream, give the difference in elevation between the ground surface at the well and the lowest point in stream channel: _____ feet.
5. Date of beginning drilling or digging October 14, 1944
6. Date well was completed June 29, 1945

7. LOG OF MATERIALS ENCOUNTERED

Character of Material	Depth at which encountered	Thickness of stratum
Black sand	At surface	145 ft.
Coarse Sand & Gravel	145 ft.	170 ft.
Gray Basalt	170 ft.	300 ft.
Basalt and Clay	300 ft.	370 ft.
Gray Basalt	370 ft.	383 ft.
Dark Gray Rock, some shale	383 ft.	388 ft.
Gray Basalt	388 ft.	457 ft.
	ft.	ft.

Remarks _____

WELL INFORMATION

8. Diameter of well 12 inches. Depth of well 457 feet.
9. Depth at which water was first encountered 50 feet.
10. Water level when completed: 43 feet below ground surface.
11. Additional information regarding well; such as soil conditions, quick sand, caves, obstructions, rock, etc.: _____

MORR 947

From Wagner **MORR 947** 1949, Ground-Water Studies in Umatilla and Morrow Counties: Oregon Dept. of Geology and Mineral Industries.

Per -- 48-J
1S-15E-3P
R., Sec., & Sec.)

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

Union Pacific, Munley #2
Well name

Index number -- 99-M
4N-27E-20-M
File number
(Code: Tp., R., Sec., & Sec.)

LOCATION:

Morrow County
Umatilla Quadrangle
4N 27E 20 NW $\frac{1}{4}$ of SW $\frac{1}{4}$
Tp. Range Section Fractional section

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 457' _____ municipal _____ producer
*includes stock wells

Union Pacific Railroad
Owners name
Address Omaha, Nebraska

A. A. Durand & Son
Original drillers name
Address Walla Walla, Washington

Washington
er 1943/44

Date of drilling Oct. 1944 to June 1945

This record compiled by N.S.W. from _____ Deepened _____
data secured from the following sources: re-cased _____
State Engineer cleaned _____ by _____

Date compiled February 1948 Date _____

Remarks
Flow 25 g.p.m.
g.p.m.
casing at -11.5'
a H₂O at -28
ed to top of pipe - 60'
g.p.m. at -63'
p.m. at -68'
eased to 25 g.p.m.

Material	Thickness (feet)	Depth (feet)	Remarks
Black sand	145	145	Hole diameter 12"
Coarse sand and gravel	25	170	
Gray basalt	139	309	
Basalt and clay	61	370	
Gray basalt	13	383	
Dark gray rock	5	388	
Gray basalt	69	457	Bottom of hole. Water first encountered at 50'. SWL when drilling completed was 43'. Drawdown 9' at 300 g.p.m. in 3 hr. and 37 min. No seasonal variation noted.

casing at -125.1

Union Pacific, Rieth #1
Well name

Index number -- 55-U
2N-32E-7-M
File number
(Code: Tp., R., Sec., & Sec.)

LOCATION:

Umatilla County
Pendleton Quadrangle
2N 32E 7 NW $\frac{1}{4}$ of SW $\frac{1}{4}$
Tp. Range Section Fractional section

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 _____