

# UMAT 1543 COPY OBSERVATION WELL

NOTICE TO WATER WELL CONTRACTOR  
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

UMAT  
1543

## WATER WELL REPORT STATE OF OREGON (Please type or print)

dbc  
State Well No. 4N/27-22K(1)  
State Permit No. \_\_\_\_\_

**(1) OWNER:**

Name U.S. ARMY INSTALLATION  
Address ORDNANCE DEPOT

**(2) LOCATION OF WELL:**

County UMATILLA Driller's well number # 2  
NW 1/4 SE 1/4 Section 22 T. 4N R. 27E W.M.  
Bearing and distance from section or subdivision corner

**(3) TYPE OF WORK (check):**

Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 12.

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**(5) TYPE OF WELL:**

Rotary  Driven   
Cable  Jetted   
Dug  Bored

**(6) CASING INSTALLED:**

Threaded  Welded   
1.5 " Diam. from 0 ft. to 218 ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**(7) PERFORATIONS:**

Perforated?  Yes  No  
Type of perforator used \_\_\_\_\_  
Size of perforations in. by in.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) SCREENS:**

Well screen installed  Yes  No  
Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(9) CONSTRUCTION:**

Well seal—Material used in seal \_\_\_\_\_  
Depth of seal \_\_\_\_\_ ft. Was a packer used? \_\_\_\_\_  
Diameter of well bore to bottom of seal \_\_\_\_\_ in.  
Were any loose strata cemented off?  Yes  No Depth \_\_\_\_\_  
Was a drive shoe used?  Yes  No  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

**(10) WATER LEVELS:**

Static level 95 ft. below land surface Date 3/1/53  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

**(11) WELL TESTS:**

Drawdown is amount water level is lowered below static level  
Was a pump test made?  Yes  No If yes, by whom? \_\_\_\_\_  
Yield: 1000 gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
" " " " " "  
" " " " " "  
" " " " " "  
Bailer test gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made?  Yes  No

**(12) WELL LOG:**

Diameter of well below casing 1.5  
Depth drilled 360 ft. Depth of completed well 325 ft.  
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
DUG PIT (NO RECORD)	0	12
GRAVEL, COARSE, SOME BOULDERS	12	43
SAND & COARSE GRAVEL	43	66
SAND	66	69
SAND & COARSE GRAVEL	69	80
SAND & SMALL GRAVEL	80	95
GRAVEL	95	149
GRAVEL, CEMENTED	149	155
ROCK, HARD, WITH CLAY SEAMS	155	197
CLAY & SHALE	197	204
BASALT, GRAY, HARD	204	207
BASALT, & BLUE CLAY	207	213
BASALT, BLACK	213	215
CLAY, BLUE	215	216
BASALT, BLACK, HARD	216	223
BASALT, BLACK, VERY HARD	223	264
BASALT, GRAY	264	277
BASALT, BLACK, CREVICED	277	282
BASALT, GRAY, HARD	282	288
BASALT, BLACK, HARD	288	296
BASALT, BLACK, HONEYCOMB	296	316
BASALT, BLACK	316	320
BASALT, BLACK, HONEYCOMB	320	330
BASALT, BLACK	330	335

Work started \_\_\_\_\_ 19 \_\_\_\_\_ Completed OVER 19 41  
Date well drilling machine moved off of well \_\_\_\_\_ 19 \_\_\_\_\_

**(13) PUMP:**

Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ H.P. \_\_\_\_\_

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME A. A. DURAND & SON  
(Person, firm or corporation) (Type or print)

Address \_\_\_\_\_

Drilling Machine Operator's License No. \_\_\_\_\_

[Signed] \_\_\_\_\_  
(Water Well Contractor)

Contractor's License No. \_\_\_\_\_ Date \_\_\_\_\_, 19 \_\_\_\_\_

**UMAT 1543**

BASALT, BLACK, HONEYCOMB	335	TO	353
BASALT, GRAY, HARD	353	TO	356
BASALT, BLACK	356	TO	360

U. S. GEOLOGICAL SURVEY

STATE ENGINEER  
Salem, Oregon

State Well No. <sup>dbc</sup> 4N/27-22K(U)

County .....

Application No. .....

Water Level Record

OWNER: Umatilla Army Depot OWNER'S NO. 2

Description of measuring point: S. E. 1/4 Sec. 22 T4N R27E Umatilla

Date	Water Level Feet (below) Land Surface	Remarks	Date	Water Level Feet (below) Land Surface	Remarks
Mar 50	72		Jan 54	83	
Apr	72		Feb	83	
May	72		Mar	87	
Jun	72		Apr	87	
Jul	72		May	80	
Aug	72		Jun	80	
Sep	76		Jul	80	
Oct	72		Aug	79	
Nov	--		Sep	79	
Dec	--		Oct	78	
Jan 51	--		Nov	78	
Feb	--		Dec	79	
Mar	--		Jan 55	79	
Apr	--		Feb	79	
May	--		Mar	79	
June	--		Apr	79	
			May	80	
			Jun	81	

REMARKS: Records unavailable July 1951 thru December 1953  
No static levels recorded before March 1950.

STATE ENGINEER  
Salem, Oregon

State Well No. \_\_\_\_\_

County \_\_\_\_\_

Application No. \_\_\_\_\_

## Water Level Record

OWNER: Umatilla Army Depot

OWNER'S NO. 2

Description of measuring point: S. E. 1/4 Sec. 22 T4N R27E Umatilla

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
July	80		Jan 57	79	
Aug	80		Feb	77	
Sep	84		Mar		Air Line Broke
Oct	78		Apr	74	
Nov	78		May	72	
Dec	77		Jun	75	
Jan 56	78		Jul		Pump out
Feb	79		Aug		Pump Out
Mar	78		Sep	82	
Apr	78		Oct	82	
May	79		Nov	83	
Jun	79		Dec	87	
Jul	79		Jan 58	85	
Aug	79		Feb	86	
Sep	79		Mar	84.5	
Oct	77		Apr	87	
Nov	77		May	89	
Dec	79		Jun	99	

REMARKS: \_\_\_\_\_

### Water Level Record

OWNER: **Umatilla Army Depot**

OWNER'S NO. **2**

Description of measuring point: **S. E. 1/4 Sec. 22 T4N R27E Umatilla**

Date	Water Level (above) Feet (below) Land Surface	Remarks	Date	Water Level (above) Feet (below) Land Surface	Remarks
Jul 58	89		Jan 60	80	
Aug	89		Feb	79	
Sep	86-		Mar	81	
Oct	80		Apr	82	
Nov	81		May	82	
Dec	81		Jun	84	
Jan 59	81		Jul	85	
Feb		Under Repairs	Aug	83	
Mar		" "	Sep	81	
Apr		" "	Oct	80	
May	83		Nov	80	
Jun	89		Dec	80	
Jul	84		Jan 61	80	
Aug	90		Feb	80	
Sep	81		Mar	79	
Oct	80		Apr	81	
Nov	80		May	81	
Dec	80		Jun	81	

REMARKS:

STATE ENGINEER  
Salem, Oregon

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State Well No. ....

County .....

Application No. ....

# Water Level Record

OWNER: Umatilla Army Depot

OWNER'S NO. 2

Description of measuring point: S. E. 1/4 Sec. 22 T4N R27E Umatilla

Date	Water Level Feet (above) Land Surface	Remarks	Date	Water Level Feet (above) Land Surface	Remarks
Jul 61	83		Jan 63	83	
Aug	81		Feb	83	
Sep	82		Mar	83	
Oct	80		Apr	83	
Nov	81		May	83	
Dec	81		Jun	85	
Jan 62	82		Jul	88	
Feb	81		Aug	89	
Mar	--		Sep	87	
Apr	83		Oct	86	
May	83		Nov	85	
Jun	93		Dec	85	
Jul	87		Jan 64	85	
Aug	99		Feb	86	
Sep	85		Mar	88	
Oct	83		Apr	95	
Nov	83		May	98	
Dec	83		Jun	97	

REMARKS: .....

**Water Level Record**

OWNER: **Umatilla Army Depot**

OWNER'S NO. **2**

Description of measuring point: **S. E 1/4 Sec. 22 T4N R27E Umatilla**

Date	Water Level Feet (below) Land Surface	Remarks	Water Level Feet (below) Land Surface	Remarks
Jul 64	105			
Aug	104			
Sep	102			
Oct	94			
Nov	92			
Dec	92			
Jan 65	92			
Feb	92			
Mar	92			
Apr	89			
May	90			

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_