

STATE OF OREGON
WATER WELL REPORT
 (as required by ORS 537.765)

LAICE
4281

36S/25E/18C

(START CARD) # 41614

(1) **OWNER:** Well Number 1
 Name Bureau of Land Management
 Address Oregon State Office P.O. Box 2965
 City Portland State OR Zip 97208

(2) **TYPE OF WORK:**
 New Well Deepen Recondition Abandon

(3) **DRILL METHOD:**
 Rotary Air Rotary Mud Cable
 Other

(4) **PROPOSED USE:**
 Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) **BORE HOLE CONSTRUCTION:**
 Special Construction approval Yes No Depth of Completed Well 640 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
20	0	305	cement	0	20	10 sacks
16	305	640	Gravel	20	640	30 cu yds

How was seal placed: Method A B C D E
 Other
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 640 ft. to 20 ft. Size of gravel 3/8"

(6) **CASING/LINER:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 16	+18"	640	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____
 (7) **PERFORATIONS/SCREENS:**
 Perforations Method Mills Knife
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
580	620	3/8"	320			<input checked="" type="checkbox"/>	<input type="checkbox"/>
520	580	3/8"	960			<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) **WELL TESTS: Minimum testing time is 1 hour**
 Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
550	186		1 hr. 9.5 hrs
900	320		17.5 hrs

Temperature of Water 56 Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom BLM
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) **LOCATION OF WELL by legal description:**
 County Lake Latitude _____ Longitude _____
 Township 36 S N or S. Range 25 E E or W. WM. _____
 Section 18 SW 1/4 SW 1/4
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Warner Wetlands, Plush Oregon

(10) **STATIC WATER LEVEL:**
14 ft. below land surface. Date 5/8/93
 Artesian pressure _____ lb. per square inch. Date _____

(11) **WATER BEARING ZONES:**
 Depth at which water was first found 60

From	To	Estimated Flow Rate	SWL
500	640	900 GPM	14

(12) **WELL LOG:**
 Ground elevation _____

Material	From	To	SWL
Fill rock	0	7	
Gray clay & conglomerate	7	20	
Gray clay	20	260	
Gray clay with black rock & red cinders	260	400	
Brown hard pan	400	418	
Sandy gray clay	418	435	
Gray hard pan sticky	435	443	
Fine sand and gravel	443	485	
Tight gray clay	485	500	
Fine sand & gravel with clay	500	535	14
Sand and coarse gray with clay	535	581	14
Coarse sand with trace gray clay	581	630	14
Gray clay and trace sand	630	640	14

RECEIVED

AUG - 6 1993

WATER RESOURCES DEPT. Pump Test Completed
SALEM, OREGON 7/8/93

Date started 1/4/93 Well Completed 5/8/93

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
 Signed [Signature] WWC Number 1605
 Date 7-25-93

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed [Signature] WWC Number 723
 Date 7-27-93

AQUIFER TEST DATA

Owner: Bureau of Land Management - Lakeview District ; Address: Warner Wetlands; County: Lake; State: Oregon

Date: July 8 through 9, 1993; Company performing test : STACO and Valley Pump; Measured by: Denzel Babcock

Well No.: 1 Distance from pumping well: N/A; Type of test: Constant Discharge; Test No. 1

RECEIVED

AUG - 6 1993

Measuring Equipment : Water Level Probe

WATER RESOURCES DEPT.

SALEM, OREGON
Comments on factors

Time Data (min)		Water Level Data		Discharge Data		Comments on factors
Clock Time	Time Since Pump Started	Water Level Measurement	Water Level Change	Discharge Measurement	Rate (gpm)	
Pump on:Date7/8/93;Time11:02AM						
Pump off:Date7/9/93Time11:30						
Duration of aquifer test: 30 hrs						
Pumping_24+_ Recovery_5 1/2						
		Static Water Level 14.5 ft.		How flow measured: flow meter		affecting test data
		Measuring point Top of casing		Depth pump: 400 feet		
		Elev. of measuring point		Previous pumping?Yes_X_No_		
				Duration End		
11:02:00 AM	0	47.00	32.50		600	
	2	61.00	46.50		600	
	4	80.00	65.50		600	
	6	89.60	75.10		600	water clear
	8	96.30	81.80		600	
	12	104.00	89.50		600	
	16	116.00	101.50		600	
	20	126.60	112.10		600	
	24	130.60	116.10		600	water clear
AM	28	131.60	117.10		600	
11:45:00 AM	43	149.80	135.30		600	
12:00:00 PM	58	156.90	142.40		600	
	73	162.90	148.40			
	88	177.60	163.10		600	water clear
	103	180.60	166.10		600	
1:00:00 PM	118	182.60	168.10		600	
	133	183.60	169.10		600	
	148	184.00	169.50		600	
	163	188.00	173.50		600	
2:00:00 PM	178	203.00	188.50		600	
	238	204.40	189.90		600	water clear
	298	207.20	192.70		600	
	358	209.90	195.40		600	
6:00:00 PM	418	211.00	196.50		600	water clear
	478	214.00	199.50		600	water clear
8:00:00 PM	538	216.85	202.35		600	Pumping level unstable, cut
8:30:00 PM	553	200.00	185.50		550	back to 550 - stabilized 200'
						Raised gpm to 900 gpm
	555	221.00	206.50		900	
	557	241.00	226.50		900	
	559	252.00	237.50		900	water clear
	561	268.80	254.30		900	
8:40:00 PM	563	269.50	255.00		900	
	567	270.00	255.50		900	
	571	281.00	266.50		900	water clear
	575	288.50	274.00		900	
	579	290.00	275.50		900	
9:00:00 PM	583	291.50	277.00		900	
9:15:00 PM	598	293.85	279.35		900	water clear

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Date: July 8 through 9, 1993; Company performing test : STACO and Valley Pump; Measured by: Denzel Babcock

Well No.: 1 Distance from pumping well: N/A; Type of test: Constant Discharge; Test No.: 1

Measuring Equipment : Water Level Probe

WATER RESOURCES DEPT.
SALEM, OREGON

Time Data (min)		Water Level Data		Discharge Data		Comments on factors affecting test data
Clock Time	Time Since Pump Started	Water Level Measurement	Water Level Change	Discharge Measurement	Rate	
Pump on:Date7/8/93;Time11:02AM		Static Water Level 14.5 ft.		How flow measured: flow meter		affecting test data
Pump off:Date7/9/93Time11:30		Measuring point Top of casing		Depth pump: 400 feet		
Duration of aquifer test: 30 hrs Pumping_24+_Recovery_5 1/2		Elev. of measuring point		Previous pumping?Yes_X_No_ Duration End		
July 8, 1993						
9:30:00 PM	613	294.00	279.50		900	
9:45:00 PM	628	296.00	281.50		900	clear
10:00:00 PM	643	297.00	282.50		900	
10:15:00 PM	658	298.50	284.00		900	trace sand
10:30:00 PM	673	300.00	285.50		900	
10:45:00 PM	688	301.50	287.00		900	trace sand
11:00:00 PM	703	303.00	288.50		900	
11:15:00 PM	718	305.00	290.50		900	
11:30:00 PM	733	313.00	298.50		900	pumping level not stabilizing
July 9, 1993						
12:00:00 AM	748	320.00	305.50		900	
1:30:00 AM	808	328.00	313.50		900	
2:30:00 AM	868	330.00	315.50		900	
3:30:00 AM	928	331.50	317.00		900	
4:30:00 AM	988	334.50	320.00		900	
5:30:00 AM	1048	334.00	319.50		900	stabilized
5:32:00 AM	1050	340.00	325.50		1125	increased RPM to 1125 gpm
5:34:00 AM	1052	385.00	370.50		1125	sandy
5:36:00 AM	1054	391.00	376.50		1125	
5:38:00 AM	1056	393.00	378.50		1100	
5:40:00 AM	1058	395.00	380.50		1100	sandy
5:44:00 AM	1062	396.00	381.50		1100	
5:48:00 AM	1066	397.50	383.00		1100	sandy
5:52:00 AM	1070	398.00	383.50		1100	
5:56:00 AM	1074	400.00	385.50		1100	top of pump at 400 feet
6:00:00 AM	1078	400.00	385.50	over 400'	1100	sandy
6:15:00 AM	1082	400.00	385.50	over 400'	1100	
6:30:00 AM	1086	400.00	385.50	over 400'	1100	pump surging, cut RPM back
6:45:00 AM	1090	400.00	385.50	over 400'	1050	
7:00:00 AM	1094	400.00	385.50	over 400'	1050	
7:15:00 AM	1098	400.00	385.50	over 400'	1050	
7:30:00 AM	1102	400.00	385.50	over 400'	1050	trace sand, clearing up
7:45:00 AM	1106	400.00	385.50	over 400'	1050	
8:00:00 AM	1110	400.00	385.50		1050	pumping level recovered
8:15:00 AM	1114	400.00	385.50		1050	
8:30:00 AM	1129	400.00	385.50		1050	trace sand, clearing up
9:30:00 AM	1189	400.00	385.50		1050	
10:30:00 AM	1249	400.00	385.50		1050	

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Pump off:Date7/9/93Time11:30		Measuring point Top of casing		Depth pump: 400 feet		
Duration of aquifer test: 30 hrs		Elev. of measuring point		Previous pumping?Yes_X_No_		
Pumping 24+ Recovery 5 1/2				Duration End		
11:30 AM	1309	400.00	385.50		1050	
Recovery Test						Turn off pump
11:32 AM	1311	278.50	264.00			
11:34 AM	1313	255.00	240.50			
11:36 AM	1315	236.00	221.50			
11:38 AM	1317	220.00	205.50			
11:40 AM	1319	206.00	191.50			
11:44 AM	1323	189.00	174.50			
11:48 AM	1327	174.00	159.50			
11:52 AM	1331	161.00	146.50			
11:56 AM	1335	151.00	136.50			
12:00 PM	1339	144.10	129.60			
12:15 PM	1337	122.00	107.50			
12:30 PM	1341	108.00	93.50			
12:45 PM	1356	99.00	84.50			
1:00 PM	1371	90.00	75.50			
1:15 PM	1386	82.00	67.50			
1:30 PM	1401	77.00	62.50			
1:45 PM	1416	72.50	58.00			
2:00 PM	1431	71.00	56.50			
3:00 PM	1491	64.00	49.50			
4:00 PM	1551	62.00	47.50			
5:00 PM	1611	60.30	45.80			