WATER WELL REPORT RECEIVED	pg.l of 4	\	01	
	LOCATION & HOE State Well No.	45	4ē-	- J7 b
STATE OF OREGON JANS 1 1983 10-	a ould per WWC			·
WATER RESOURCES DEPT	tocal file 40E State Well No. + not 4E - 2/8/83 State Permit No. JB		•••••	
(1) OWNER:				
Name City of Union	(10) LOCATION OF WELL:			
Address City Hall	County Union Driller's we			
City Union Stat Oreg. 97883	<u>4 NW ¼ Section -19 T. 4S</u>	<u>R.</u> 4	E	W.M.
	= <u>Tax Lot # Lot Bik</u>		Subdivisi	on
(2) TYPE OF WORK (check):	Address at well location: unknown			
New Well 🙀 Deepening 🗆 Reconditioning 🗆 Abandon 🗆 If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed v	vell.	····	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	225		ft.
	Static level ft. below	land surf	ace. Date	
Rotary Mud 🕱 Dug 🗌 Irrigation 🗆 Test Well 🗌 Other	Artesian pressure 43 lbs.	er square	e inch. Da	te 1-10-83
C ^{**} 'e 🗆 Bored 🗆 Thermal: Withdrawal 🗆 Reinjection 🗆	(12) WELL LOG: Diameter of well below	v casing	-0-	
) CASING INSTALLED: Steel 🕱 Plastic 🗆	Depth drilled 1200 ft. Depth or	f complete	ed well 1	200 ft.
	Formation: Describe color, texture grain size and sta	nature of		1
18 "Diam. from +1 ¹ / ₂ ft. to -160 ft. Gauge .375 14 "Diam. from +2.3 ft. to -555 ft. Gauge .375	thickness and nature of each stratum and aquifer pen for each change of formation. Report each change in and indicate minimum and indicate and indic	etrated, v position	vith at lea of Static	ast one entry Water Level
14 "Diam. from +2.3 ft. to -555	and indicate principal water-bearing strata.		or ordere	Water Dever
	MATERIAL	From	To	SWL
⁵	Clay-bonded-cobbles, gravel,			1
(6) PERFORATIONS: Perforated? X Yes I No	Sand (Brown)	0	62	
Type of perforator used Factory	Claystone	62	75	
Size of perforations 3/16 in. by 3 in.	<u>Clay-bonded-cobbles,gravel</u> ,			
937.13 sq. in. of perforations from -495.5 ft. to -555 ft.	sand (brewn)	75	111	
463.05 sq. in of perforations from -543.5ft. to-584.66ft.	Cobbles & Gravel(slight bondg			
11,538 sq. in. of perforations from -559 ft. tl. 200. ft.	brown	111	116	
(7) SCREENS: Well screen installed? Ves X No	<u>Clay-bonded cobbles & gravels</u>			<u> </u>
Manufacturer's Name	<u>w/clay strips(browns-dkg.</u> <u>Med-hard basalt,dk grey.blk</u>		145	· · · · · · · · · · · · · · · · · · ·
Type	Med-hard rock, multi-colored	145	185	
Diam	Med. basalt (dk. grey) fract-	1.02	192	
Diam Slot Size	ures w/some red partcl	192	225	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Cinders, red clay strips	225	-	W/b to235
	Hard sandstone & (or) meta-			<u>10 L02</u> 55
yes a pump test made? X Yes □ No If yes, by whom?A&H Pump Serv. 1: 1500 gal/min with 160 ft drawdown after 24 hrs	morphic rock (brown)	265	270	
<u>d: 1500 gal./min. with 160 ft. drawdown after 24 hrs.</u>	Soft rock, browns & dk. grey	270	290	
Air test gal./min. with drill stem at ft. hrs.	Rock & sandstone conglomerate	290	295	
Air test gal./min. with drill stem at ft. hrs. Bailer test gal./min. with ft. drawdown after hrs.	Basalt w/lt brn clay seams &			
Artesian flow 250 g.p.m. W/ 42 PSI	sandstone seams	295	315	<u>v/b to</u> 318
perature of water 72* Depth artesian flow encountere 250	Brown sandstone	315		z/b
(9) CONSTRUCTION: Special standards: Yes D Nor	Work started 7-7 19 82 Complete		7	19 83
Well seal—Material used Cement	Date well drilling machine moved off of well 1-	[4		19 83
Well sealed from land surface to	Drilling Machine Operator's Certification:			
Diameter of well bore to bottom of seal	This well was constructed under my direct so and information reported above are true to my b	upervisio	on. Mate	rials used
Diameter of well bore below seal	[Signed]	Dete	1eoge al 1 7 7	, 19 83 .
Number of sacks of cement used in well seal 9. yds. sacks				
How was cement grout placed? Pumped	Drilling Machine Operator's License No96		····.	
	Water Well Contractor's Certification:		1	
	This well was drilled under my jurisdiction	and thi	s report	is true to
Was pump installed?	the best of my knowledge and belief. NameOrvail Buckner Well Drill'			
Was a drive shoe used? X Yes □ No Plugs	(Person, firm or corporation)		(Three on	print)
Type of Water? Surface depth of strata 9 ft	Address 1686 N.E. Negus Way Red	ond,	Oreg	97756
Method of sealing strata off Casing & grout	[Signed] Queil Cur	K	/	
Was well gravel packed? Vas P No Size of gravel:	(Water Well Contracto		•••••	
Gravel placed from	Contractor's License No. 698 Date 1-	27	•••••	, 19. 83
NOTICE TO WATER WELL CONTRACTOR	WATER RESOURCES DEPARTMENT			*19659.600

The original and first copy of this report are to be filed with the

NT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*12658-690

WATER WELL REPORT

STATE OF OREGON

RECEIV	ES DEPT. Alow 192 State Permit No. 402 JUL 2/8/83 JC B	11	Б	
WATER WELL REPORT	102 Jocalin R. State Well No.	ts \ 4	ξ-	191
STATE OF OREGON JANJ 1 19	183 THO Sould be - por			
WATER RESOURCE	ES DEPT. AND NOT State Permit No.			
SALEM, ORE(GON 40-248183 7CB			
(1) OWNER:	(10) LOCATION OF WELL:			
Al Anna C. Mark and	the form			
Name City of Union Address City Hall	County Union Driller's well <u>4</u> NW 4 Section 19 T. 4S	number R. 4E		
City Union StatDreg. 97883	Tax Lot # Lot Blk		bdivisio	<u>W.M.</u>
(2) TYPE OF WORK (check):	Address at well location:		1041 115101	
New Well \square Deepening \square Reconditioning \square Abandon \square If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.		
	Depth at which water was first found 22			ft.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Static level ft. below Is		e. Date	
Rotary Air Driven Domestic Industrial Municipal Rotary Mud X Dug Irrigation Test Well Other	Artesian pressure 43 lbs. pe	r square i	nch. Dat	• 1-10-8
C Bored D Thermal: Withdrawal Reinjection D	(12) WELL LOG: Diameter of well below	casing	-0-	
CASING INSTALLED: Steel 😰 Plastic 🗆	Depth drilled 1200 ft. Depth of c	completed	well 1	200 ft.
	Formation: Describe color, texture, grain size and stru thickness and nature of each stratum and aquifer penet	icture of n	naterials	s; and show
See pg. 1 Diam. from ft. to	for each change of formation. Report each change in p	position of	Static V	Vater Level
	and indicate principal water-bearing strata.			-
LINER INSTALLED:	MATERIAL	From	То	SWL
	Rock w/claystone seams, grey, re			
(6) PERFORATIONS: Perforated? Yes Do	green, brown	343	350	
Type of perforator used see page 1	Hard claystone, lt. tan to dk.	350	390	
Size of perforations in. by in.	Brown sandstone	390	398	
	Sandstone, claystone & basalt	~~~~	379	
perforations from	strips, multi-colored	398	430	
	Cinder sand w/clay & rock seam			
(7) SCREENS: Well screen installed? Yes No Manufacturer's Name	red-orange	430	510	
Type	Cinders- purple	510	515	
Diam	Basalt, grey to black Basalt w/green clay seams	515 560	_ 260 _ 570	w/b to
Diam	Basalt, fractured	570	630	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Cinder, sand, clay w/ fracture			
	basalts	630	635	
Was a pump test made?	Arel al armert sense cancersed			
J: 1500 gal/min. with 100 ft. drawdown after 24 hrs.	soft, caving	635	650	
Air test gal./min. with drill stem at ft. hrs.	Clay w/cinder, sand embedded			
Bailer test gal./min. with ft. drawdown after hrs.	<u>& basalt weathered?</u> Rock w/clay & cinder strips.	650	655	
Artesian flow 250 g.p.m. w/ 42 PSI	Bulti-colored	655	710	
erature of water 72* Depth artesian flow encountered ft.	Work started 7-7 19 82 Complete			1983
(9) CONSTRUCTION: Special standards: Yes 🗆 No 🕱	Date well drilling machine moved off of well 1-14			1983
Well seal-Material used . Cement	Drilling Machine Operator's Certification:			
Well sealed from land surface to	This well was constructed under my direct su	pervisio	n. Mate	rials used
Diameter of well bore to bottom of seal	and information reported above are true to my be [Signed]			nd belief. 19 83
Diameter of well bore below seal	T(Drilling Machine Operator)			, 197.7
How was cement grout placed? Pumped	Drilling Machine Operator's License No		<u> </u>	
	Water Well Contractor's Certification:		1	
	This well was drilled under my jurisdiction	and this	report	is true to
Was pump installed?	the best of my knowledge and belief.			
Was a drive shoe used?	Nam@rvail. Buckner. Well. Drill'g, Inc			
Type of Water? surface depth of strata 9 ft.	Address 1686 N.E Negus. Hay, Reda	iond.,(Oreg.	9.7.7.56
Method of sealing strata off casing & grout	[Signed] (Water Well Contracto	<u> </u>		
Was well gravel packed? 🗆 Yes 🔽 No Size of gravel:	(Water Well Contractor Contractor's License No 608 Date] #2	•		10
Gravel placed from ft. to ft.		·/····	•••••••••••••	, 13
NOTICE TO WATER WELL CONTRACTOR	WATER RESOURCES DEPARTMENT,		SI	P*12658-690

E TO WAT NTRACTOR The original and first copy of this report are to be filed with the

WATER WELL REPORT

STATE OF OREGON

Name

City

Address

New Well D

Rotary Air 🛛

Rotary Mud 🕱

Cable

Diam.

Diam.

Air test

Bailer test

Type of Water? Surface

Was well gravel packed? 🗆 Yes 🔛 No

Method of sealing strata off casing & grout

Gravel placed from ft. to

State Permit No.

4514E-19b

Subdivision

W.M.

ft.

ft.

SWL

w/b 728

w/b 825

w/b 948?

1983

1983

R. **4**E

From

710

750

760

875

1-7

.....

То

750

760

825

845

\$75

895

933

945

955

972

JAN3 1 1983 Jour July State Well No. WATER RESOURCES DEPT. Not alalos TAN State SALEM, OREGON (1) OWNER: City of Union Union County Driller's well number City Hall 14 NW ¹/₄ Section 19 т. 45 Union StateOreg. 97883 Tax Lot # Lot Bik Address at well location: (2) TYPE OF WORK (check): Deepening Reconditioning \Box Abandon 🗀 (11) WATER LEVEL: Completed well. If abandonment, describe material and procedure in Item 12. Depth at which water was first found 225 (3) TYPE OF WELL: (4) PROPOSED USE (check): Static level ft. below land surface. Date Driven Domestic Industrial Municipal Artesian pressure 43 lbs. per square inch. Date 1-10-83 Dug Irrigation Test Well Other Bored Thermal Withdrawal Reinjection (12) WELL LOG: Diameter of well below casing Depth drilled 1200 ft. Depth of completed well 1200) CASING INSTALLED: Steel Plastic Formation: Describe color, texture, grain size and structure of materials; and show Threaded Welded 12 see page 1 thickness and nature of each stratum and aquifer penetrated, with at least one entry ft. to ft. Gauge for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata. LINER INSTALLED: MATERIAL ." Diam. from ft. to ft. Gauge <u>Clavev</u> Cinders Rock w/blue-grey clay strips (6) PERFORATIONS: Perforated? 🙀 Yes 🗆 No Type of perforator used see page 1 Hard basalt, dk. grey Size of perforations 3/16 Fractured basalt(lost lots mud) 825 3 in. by in. most water at \$25"? perforations from ft. to ft Basalt, some broken or softer 845 perforations from ft. to ft. Broken basalt ft. to...... ft. to...... ft. Basalts w/lt. grey particles (7) SCREENS: Well screen installed? 🗆 Yes 😦 No or strips 895 Manufacturer's Name Claystone, dk. green, dk.grey 933 Type Model No. Broken basalt 945 Basalt, seamed w/clay seams 955 Slot Size Set from ft. to ft. Basalt, seamed w/clay seams. Drawdown is amount water level is lowered (8) WELL TESTS: some quartz particles 972 hoza w/b 977? below static level Basalt w/clay seams-sefter 1020 1043 W/b 990 Was a pump test made? 🛫 Yes 🗆 No If yes, by whom? A&H Pump Serv Clay strips(soft) w/quartz prth043 1050 w/b1025 gal./min. with 160 ft. drawdown after 24 hrs. Claystone w/basalt strips 1050 h 073 Basalts, fractured 1073 1097 gal./min. with drill stem at ft. hrs. Basalt, fairly solid 1097 h115 gal./min. with ft. drawdown after hrs. Basalt, green clay seams <u>h115 h120</u> Artesian flow 250 g.p.m. w/43 PST Basalt, dk. grey 120 1156 erature of water 72* Depth artesian flow encountered ... ft Work started 7-7 19 82 Completed (9) CONSTRUCTION: Date well drilling machine moved off of well Special standards: Yes 🗆 No 🗺 1 -1 4 Well seal-Material used ... Cement **Drilling Machine Operator's Certification:** This well was constructed under my direct supervision. Materials used Diameter of well bore to bottom of seal22...... in. Drilling Machine Operator's License No. 967 How was cement grout placed? Purped 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. NameOrvail. Buckner. Well. Drill'g, Inc. Was a drive shoe used? \Box XYes \Box No Plugs Size: location ft. Did any strata contain unusable water? 🔄 Yes 🔲 No

2 [Signed] (Water Well Contractor) Contractor's License No. 608 Date 1-27 , 19.83

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the

9 <u>ft</u>

Size of gravel:

depth of strata

WATER RESOURCES DEPARTMENT. SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*12658-690

KEUEIVED JAN3 1 1983

WATER WELL REPORT

WATER RESOURCES DEPT

R JOE WWC fe-per wwC State Well No.

-196

STATE OF OREGON

SALEM, OREGON TYPE or PRINT IN INK 218183 10 State Permit No.

	(10) LOCATION OF WELL:
(1) OWNER:	•••••
Name City of Union	County Union Driller's well number 4 NW 4 Section 19 T. 4S R. 4E W.M.
Address City Hall City Union StateOreg. 97883	Tax Lot # Lot Blk Subdivision
Dity Union State Oreg. 9/853	Address at well location:
(2) TYPE OF WORK (check):	Address at well location.
New Well 😰 Deepening 🗆 Reconditioning 🗆 Abandon 🗆	
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.
	Depth at which water was first found 225 ft.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Static level 43- ft. below land surface. Date 19-03
Rotary Air 🗌 Driven 🔲 Domestic 🗌 Industrial 🗌 Municipal 👷 🗌	Artesian pressure 43 lbs. per square inch. Date1-10-8
Retary Mud 1 Dug Irrigation Test Well Other Bored Inermal: Withdrawal Reinjection	(12) WELL LOG: Diameter of well below casing -0-
	Depth drilled 1200 ft. Depth of completed well 1200 ft.
) CASING INSTALLED: Steel Plastic Threaded Welded	Formation: Describe color, texture, grain size and structure of materials; and show
see Page 1	thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level
"Diam. from	and indicate principal water-bearing strata.
	MATERIAL From To SWL
LINER INSTALLED:	
(6) PERFORATIONS: Perforated? TYes 🗆 No	Basalt w/red cinders, broken
Type of perforator used Factory	med. 1170 1180 w/b117
Size of perforations in. by in.	Basalt, hard, dk. grey 1180 1200
see page 1 perforations from	
perforations from	Blew approx. 200GPM @ 515'-517 depth
perforations from ft. to	
(7) SCREENS: Well screen installed? Yes No	
Manufacturer's Name	
Type	
Diam. Slot Size	
Diam. Slot Size	
(8) WELL TESTS: Drawown is another water level	
a pump test made? T Yes D No If yes, by whom? A&H Pump Serv.	
<u></u>	
Air test gal./min. with drill stem at ft. hrs.	
Bailer test gal./min. with ft. drawdown after hrs.	
sian flow 250 g.p.m. w/43 PSI	
emperature of water 72* Depth artesian flow encountered	Work started 7-7 19 82 Completed 1-7 19 83
	Work started / -/ 19 02 Completed 1 -/ 19 Date well drilling machine moved off of well 1-14 19 19
(9) CONSTRUCTION: Special standards: Yes D No X	
Well seal-Material usedCement	(unbonded) Water Well Constructor Certification (if applicable):
Well sealed from land surface to	This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
Diameter of well bore to bottom of seal	[Signed]
Diameter of well bore below sealin.	
Number of sacks of cement used in well seal	Bonded Water Well Constructor Certification:
How was cement grout placed? Pumped	Bong 30130021279 Issued by: U.S. Fidelity & Guarante
	This well was drilled under my jurisdiction and this report is true to
	the best of my knowledge and belief.
Was pump installed?	Name Orvail Buckner Well Drilling, Inc. (Person, firm or corporation) (Type or print)
Was a drive shoe used? 😿 Yes 🗆 No Plugs	Address 1686 N.E. Negus Way, Redmond, Oreg. 9775
Did any strata contain unusable water? Yes No Type of Water? Surface depth of strata 9 ft.	
Type of Water. Dati and	[Signed]
Method of sealing strata off casing & grout	Date .1-27
Was well gravel packed? Yes No Size of gravel:	Dave
Gravel placed from ft. to ft.	
NOTICE TO WATER WELL CONSTRUCTOR The original and first copy of this report are to be filed with the	WATER RESOURCES DEPARTMENT, SP*45292-690 SALEM, OREGON 97310 within 30 days from the date of well completion.