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

State Well No. 185/12E-16bc

STATE ENGINEER, SALEM, OREGON 97310 55 2 3 within 30 days from the date of well completion.

WATER SERVICES DEFT 30 1974 State Permit No. (Do not write above this line) DEFT 30 1974 State Permit No. (Do not write above this line)

LOB 86 11336

(1) OWNER:	(10) LOCATION OF WELL:			
Name J.L. Ward Construction Co.	County Deschutes Driller's well nu	mber		
Address 61045 Brosterhous Rd.	SW 1/4 NW 1/4 Section 16 T. 18S	r. 12F	3	W.M.
Bene 97702	Bearing and distance from section or subdivision	n corner		
(2) TYPE OF WORK (check):	2,000' South of NW Corner of			
New Well X Deepening □ Reconditioning □ Abandon □	- 10 mm - 10 m		-1	
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed we	ell.		•
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 335			ft.
Rotary Driven Domestic X Industrial Municipal Domestic X	Static level 335 ft. below land st	urface. I	ate	
Dug 🛘 Bored 🖟 Irrigation 💢 Test Well 🖂 Other 🖂	Artesian pressure — Ibs. per square	inch. I	Date	
CASING INSTALLED: Threaded Welded	(19) WEIL TOO.		16	11
12 " Diam. from +2 ft. to -410 ft. Gage -250	(12) WELL LOG: Diameter of well b	elow casi	ng <u>LD</u>	
" Diam. from	Depth drilled 417 ft. Depth of comple			ft.
" Diam. fromft. toft. Gage	Formation: Describe color, texture, grain size	and struc	ture of	materials;
	and show thickness and nature of each stratus with at-least one entry for each change of forma	m and ac	quiter p	enetrated,
PERFORATIONS: Perforated? 🔀 Yes 🗆 No.	position of Static Water Level and indicate prin			
Type of perforator used Torch	MATERIAL	From	То	SWL
Size of perforations 1/4 in. by 6 in.	Sandy Soil	0	4	
500 perforations from 330 ft. to 410 ft.	Gray Lave	4	28	
perforations from ft. to ft.	Lava Chunks	28	34	
perforations from ft. to ft.	Red Cinders	34	49	
	Lava Chunks	49	56	
(7) SCREENS: Well screen installed? Yes X No	Conglomerate tan	56	89	
Manufacturer's Name	Gray Pumice	89	112	
Type Model No.	Black Lava	112	137	
Diam. Slot size Set from ft. to ft.	- Lava Chunks	137	162	
Diam. Slot size Set from ft. to ft.	Red Cinders	162	166	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Black Cinders	166	172	
·	Lava Black	172	191	
Was a pump test made? ☐ Yes ☐ No If yes, by whom? Ward	Conglomerate	191	221	
Yield: 1500 gal./min. with ft. drawdown after hrs.	Lava Gray	221	253	
See Attached Letter " "	Red Cinders	253	271	
<i>n n n</i>		271	306	
Bailer test gal./min. with ft. drawdown after hrs.		306	319	
Artesian flow None g.p.m.		<u>319 </u>	336	335
erature of water 52 Depth artesian flow encountered ft.	(Continued Below) Work started 4/18 19/4 Complete	4	6126	10-7-1
4.3	Date well drilling machine moved off of well		6/26 6/28	19 74 19 74
(9) CONSTRUCTION:	Drilling Machine Operator's Certification:		· · · · · · · · · · · · · · · · · · ·	
Well seal—Material used Portland Cement Grout	This well was constructed under my	direct	super	vision.
Well sealed from land surface to	Materials used and information reported	above a	re true	to my
Diameter of well bore to bottom of seal 18 in.	best knowledge and belief.		*	*.5
Diameter of well bore below seal16-18 in.	[Signed]	Date	**********	, 19
Number of sacks of cement used in well seal	Drilling Machine Operator's License No.		*****************	
Brand name of bentoniteNA				
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification:			
of water	This well was drilled under my jurisdic	tion and	l this re	port is
Was a drive shoe used? ☐ Yes XNo Plugs Size: location ft.	true to the best of my knowledge and belief.			
Did any strata contain unusable water? Yes No	Name Jan L. Ward (Person, firm or corporation)	(Tvr	e or prin	t)
Type of water? depth of strata	Address 61045 Brosterhous Road, Bend, Oregon			
Method of sealing strata off				.
Was well gravel packed? ∑ Yes ☐ No Size of gravel: 1/4-1/2	[Signed] (Water Well Contra	ctor)		
Gravel placed from 50 ft. to 410 ft.	Contractor's License No Date			10-
Many va parvya da vada minori minori many and a ser minori minori del	Communication of International Line			., iV

ne original and that copy of this report are to be filed with the

WATER WDESC

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(Please type

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

OWNER:

(Do not write abi

Name J.L. Ward Construction Co. (Address 61045 Brosterhous Rd.				
(2) TYPE OF WORK (check):				
New Well (Deepening Reconditioning Abandon			,	
If abandonment, describe material and procedure in Item 12.				
(3) TYPE OF WELL: (4) PROPOSED USE (check):				
Rotary Driven Domestic Industrial Municipal Domestic Irrigation Test Well Other				
(5) CASING INSTALLED: Threaded Welded	Formation: Describe color, texture, grain size and show thickness and nature of each stratus with at least one entry for each change of formations of State With Land Indiana and Indiana	m and action. Rep	quifer pe ort each o	netrated, change in
(6) PERFORATIONS: Perforated? Yes No.	position of Static Water Level and indicate prin	ripat wa	ter-oearti	
Type of perforator used Torch	MATERIAL	From	То	SWL
Size of perforations 1/4 in. by 6 in.		.		
500 perforations from 330 ft. to 410 ft.	Red Cinders	336	347	
perforations from ft. to ft.	Cemented Cravel	347	352	
perforations from ft. to ft.	Red Cinders	352	357	
(7) SCREENS: Well screen installed? Yes Y No	Gray Lave	<u>-357</u>	387	
7'squifacturer's Name	Red Cinders	887	717	
e Model No.		 		
Diam Slot size Set from ft. to ft.				
Diam Slot size Set from ft. to ft.				
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	RECEIVED			
Was a pump test made? Yes No If yes, by whom? Ward	050.1			
Yield: gal./min. with ft. drawdown after hrs.	DEC 1 4 2000			
" See Attached Litter " "	WATER DESCRIPTION	ļ		
W	WATER RESOURCES DEPT. SALEM, OREGON	ļ		
Bailer test gal./min. with ft. drawdown after. hrs.	- CALLIN, OTILGON	1		
Artesian flow None g.p.m.		 		<u> </u>
Temperature of water 52 Depth artesian flow encounteredft.		·	100	
Temperature of water 31. Depth artesian now encountered	Work started 4/18 194 Complet	ea	112	19 7
(9) CONSTRUCTION: Well seal-Material used Fortund Comont Grout Well sealed from land surface to 50 ft.	Date well drilling machine moved off of well Drilling Machine Operator's Certification: This well was constructed under my Materials used and information reported best knowledge and belief.	direct		vision.
Diameter of well bore to bottom of seal 18 in. Diameter of well bore below seal $16-18$ in.	_	Doto		10
Number of sacks of cement used in well sealsacks	[Signed](Drilling Machine Operator)	Date	*********	, 48
Number of sacks of tentonite used in well seal None sacks	Drilling Machine Operator's License No.		••••••	
Brand name of bentonite NA				· · · · · · ·
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification:			
of water lbs./100 gals.	This well was drilled under my jurisd true to the best of my knowledge and be		nd this i	report is
Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.	Name Jan J. Ward (Person, firm or corporation)	•••••	ype or pri	int)
Type of water? depth of strata	Address 61045 Brosterhous Roa	d. Be	nd. Or	eaon
Method of sealing strata off	1.66/2	,		
Was well gravel packed? Yes \(\) No Size of gravel: \(\frac{1/4-1/2}{2} \)	[Signed] (Water Well Cont	ractor)	************	7
Gravel placed from 50 ft. to 410 ft.	Contractor's License No Date		# 5.1 2.3	19
	HERTS IF NECESSARY)			P+45454_110
	TANK TO THE CESSARIA	100 mg	3 6	4 46 6



"communities planned with pride"

RECEIVED

JUL 171978 WATER RESOURCES DEPT. SALEM, OREGON

July 13, 1978

Water Resources Department of Oregon State 555 13th N.E. Salem, Oregon 97310

Gentlemen:

Enclosed please find a completed well log for a well that was drilled in May and June of 1974.

The drilling was done with tools and machines belonging to Ward Construction Company and operated by Lawrence Kowaleski of Madras, Oregon .

The drilling was completed in late June 1974; the casing was installed and the seal was installed and the well completed on September 24, 1974.

An 8" Lineshaft Turbine Pump was installed in the summer of 1977 and the well as tested for a period of 30 days at a flow of 1500 Gallons Per Minute. There was no apparent draw down in the two adjacent wells before, during or after the test period.

The tardiness of this well log was due to my misunderstanding of who was to make the filing.

If there is any additional information required, please advise.

Ward Construction Company

Jan L. Ward

President

JW/mc

Enclosures

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