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JAN 1 2 2012

WATER RESOURCES DEPT SALEM, OREGON

Well Logs

or tire report are tell	LL REPORT State Well No.	15	H 112-0	Tah
	ne or print) / m			-
(1) OWNER:	(11) LOCATION OF WELL:			
Name CITY OF REDMOND ORG.	County De Driller's well n	umber	- 27	1
Address CITY HALL REDMOND DRE	NE 14 NW 1/4 Section 9 T.	<b>∫ ≺</b> R.	136	W.M.
	Bearing and distance from section or subdivision	n corner		
(2) TYPE OF WORK (check):		7		रेक्ट इंग्लिस
New Well Deepening Beconditioning Abandon				, <del>, ,</del> , , ,
If abandonment, describe material and procedure in Item 12.				
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(12) WELL LOG: Diameter of well	helow car	in 7	からな
Rotary Driven Domestic Industrial Municipal	Depth drilled 330 ft. Depth of comp		-, <u>-</u>	00 tt.
Dug				
CASING INSTALLED: Threaded   Welded   Welded   CASING INSTALLED: Threaded   Welded   CASING INSTALLED: Threaded   Welded   CASING INSTALLED: Threaded   Welded   CASING INSTALLED: Threaded   Welded   Welded   CASING INSTALLED: Threaded   Welded   Welded   Welded   Welded   Welded   CASING INSTALLED: Threaded   Welded	Formation: Describe color, texture, grain size and show thickness and nature of each stratu with at least one entry for each change of forn in position of Static Water Level as drilling pr	ım and a nation. R	quifer pe eport eac	netrated, h change
2 1 Diam. from	MATERIAL	From	To	SWL
". Diam. fromft. toft. Gage	OVER BUNGEN	0	5	
PERFORATIONS: Perforated? Yes 🗆 No.	HARD LAVA	उ	12	
Type of perforator used FACTOON	BOULDER CONE-	12	20	
Size of perforations in. by 2 in.	SOFT LAVA	20	38	
3200 perforations from 200 ft to 300 ft	HAND RED LAVA	-	60	
perforations from tt. to tt.	BROKEN MED LAVA	80		<del></del>
perforations fromft. toft.	HATTO BACK LAVA	2.6	26	
perforations fromft. toft.	GED CONB	78	8.5	
tt. tot	MED HARD RED LAVA	85	96	<del></del>
TEOLIVE W	HADD DOUG LAVA	100	108	
(7) SCREENS: Well screen installed?   Yes No	SOCT BROWN LAVA	100		
Manufacturer's Manue 201/	SOFT GREE LAWS	120	133	1, 1,
Type Model No.	Chevis	133	140	
WATER RESULTIONS DEP Set from tt. to t	CANTING MOYLDER CONG.	140		
Diam. Slot Sec Irom tt. to tt.	SAND STONE	150	120	
(8) WATER LEVEL: Completed well.	SOFT LAND	130	185	
Static level 168 ft. below land surface Date 7. 15-69	WATER BEARING SAND	185	199	もつい
sian pressure lbs. per square inch Date	HAND DLUE DWALT	199	210	
A THE RESERVE OF THE PARTY OF T	RED CINDERS	220	235	,
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	WATER BEADING PUNITU	235	160	_
Was a pump test made? Yes   No If yes, by whom? (co-Bakel)	STORE CHACEL	350	720	165
ad: 500 gal./min. with 10 ft. drawdown after 5 hrs.	Work started 4 - 11 1969 Complet	ed 2-/	<u> ५</u>	19 6 9
1300 " 20 40 " 72 "	Date well drilling machine moved off of well	2-1	<u>(5</u>	1965
. 1400 . 73 2 .	Drilling Machine Operator's Certification:			·
Bailer test gal./min. with ft. drawdown after hrs.	This well was constructed under my d			
	rials used and information reported aborehowledge and belief.	ve are t	rue to 1	ny best
Artesian flow g.p.m. Date			92 s	10
Temperature of water 5 1/2 Was a chemical analysis made? 1/2 Yes 🗆 No	[Signed] (Drilling Machine Operator)	Date		. 19.6 <i>5</i>
(10) CONSTRUCTION:	Drilling Machine Operator's License No.	32	0	
Well seal-Material used CEMENT - Chout				
Depth of seal ft,	Water Well Contractor's Certification:			
Diameter of well bore to bottom of seal	This well was drilled under my jurisd true to the best of my knowledge and beli		nd this r	eport is
Were any loose strata cemented off? Yes No Depth	NAME JACKTON ONLLL	مير سد		
Was a drive shoe used? Yes No	(Person, firm or corporation)	(Тур	e or print)	~~~~
Did any strata contain unusable water?   Yes No	Address REMOND OR	re.		
Type of water? depth of strata	A	<del>T</del> T		
Method of sealing strata off	[Signed] Thomas I com		<del>-</del>	
Was well gravel packed? Yes   No Size of gravel:	Water Well Contra	etor)		
Gravel placed from 300 ft. to 159 ft.	Contractor's License No. 44 Date	8-1	<i>,</i>	19.6.9
	EETS IF NECESSARY)			

WC//#/

NOTICE TO WATER WELL CONTRACTOR	L RECEIVED	<b>70</b> -	V1/ <del>-P</del> Z-
The original and first copy of this report are to be WATER WEL	L REPERT LIVE		
filed with the	OREGONF B 1 8 1975 State Well No.	155/13E	-16 6
CONTAINS DISTORTED CLASSIFIC ADDITIONS 0791			-
within 30 days from the dat	STATE ENGINEER State Permit N	0	
of well completion. (Do not write ab	SALEM. OREGON		
(1) OWNER:	(10) LOCATION OF WELL:		
Name City of Redmond IAN \$ 9.2002	County Deschutes Driller's well nu	ımber	
Address Redmond, Oregon	NW % SW % Section 16 T.15 S		t w.м.
WATER DESCRIPTES DEDI	Bearing and distance from section or subdivisi		***
(2) TYPE OF WORK (check): CALEM OREGON	Bearing and distance from section or subdivision	on corner	STATE STATE
New Well Deepening Reconditioning Abandon	Company of the compan		
If abandonment, describe material and procedure in Item 12.			<del></del> .
	(11) WATER LEVEL: Completed w		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 278		ft.
Rotary Driven Domestic Industrial Municipal	Static level 265 ft. below land s	urface. Date	2-11-75
Dug   Bored   Irrigation   Test Well   Other	Artesian pressure Ds. per squar		
CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Diameter of well h	alam andra d	to to
16" Diam. from \$ 2	Depth drilled 1,50 ft. Depth of comple	_	<del></del> .
14. " Diam. from 255 ft. to 43.3 ft. Gage250			
" Diam. fromft. toft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each stratur		
	with at least one entry for each change of format	ion. Report eac	h change in
PERFORATIONS: Perforated? Yes   No.	position of Static Water Level and indicate prin	cipal water-bed	ring strata.
Type of perforator used Factory slot	MATERIAL	From To	SWL
Size of perforations 6 in. by 7/8 in.	Top Soil	0 4	
2,000 perforations from 255 ft. to 1,23 ft.	Mild Brown Lava	4 15	
perforations fromft. toft.	Brown Conglomorate	15 85	
perforations fromft.	Pumice	85 95	
(7) SCREENS.	Tan Conglom.	95 157	,
(7) SCREENS: Well screen installed?   Yes No	Loose Black Cinders	157 16	
Manufacturer's Name	Hard Black Lava	164 205	
TypeModel No.	Red Cinders	205 225	
Diam. Slot size Set from ft. to ft.	Black Sand	225 236	
Diam. Slot size Set from ft. to ft.	Brown Sandstone	236 278	
(8) WELL TESTS: Drawdown is amount water level is	Water bearing Brown Sandstone	278 ha	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level H.&.	Hard Clay stone small	400 427	
Was a pump test made? A Yes No If yes, by whom? Drilling,	Tan " with some sand gravel	427 433	<del></del>
d: 117) gal./min. with 35 ft. drawdown after 29 hrs.	Hard Clay stone	433 449	I .
" " " " " " " " " " " " " " " " " " " "	Black Baselt	149 452	<u></u>
И И И			<del>-                                    </del>
Bailer test gal./min. with ft. drawdown after hrs.			
tesian flow g.p.m.			
perature of water 52 Depth artesian flow encounteredft.	World standard O 2 mg	40.71	10.00
Specialized of water 1/2 Depart areside now electricited minimalized	Work started 2-15 19 71 Complete	,	19_75
(9) CONSTRUCTION:	Date well drilling machine moved off of well	<u>-14 — — — — — — — — — — — — — — — — — — —</u>	1975
Well seal—Material used Portland Coment	Drilling Machine Operator's Certification:		
	This well was constructed under my Materials used and information reported	direct sup	ervision.
Well sealed from land surface to 280 20 to 20 20 ft.  Diameter of well bore to bottom of seal 18 to 280 n. 18	best knowledge and belief.	above are u	ue to my
Diameter of well bore below seal	The state of the s	Date 2-14	19. 75
Number of sacks of cement used in well seal311Yards sacks	(Drilling Machine Operator)		
Number of sacks of bentonite used in well seal sacks	Drilling Machine Operator's License No	<u>558</u>	
Brand name of bentonite	Water Well Contractor's Continue		·
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification:	-H 1 11 1	
of waterlbs./100 gals.	This well was drilled under my jurisdi true to the best of my knowledge and bell	ie <b>f</b> .	-
Was a drive shoe used? ☐ Yes ☑ No Plugs Size: location	Name H. & H. DRILLING INC. (Person, firm or corporation)	(Type or )	orint)
Type of water? potable depth of strata	Address P.O. Box 51 Redmond		
Method of sealing strata off	[Signed] Tomestille		
Was well gravel packed? ☐ Yes ☐ No Size of gravel:	(Water Well Contr		
Gravel placed from ft. to ft.	Contractor's License No Date Date	-14	, 1975

(USE ADDITIONAL SHEETS IF NECESSARY)

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STATE OF OREGON

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Pg. 1 of 3

WATER WELL REPORT (as required by ORS 537.765) WATER RESOURCES DEPT

(for official use only)

(1) OWNER:	(10) LOCATION OF WELL by legs	l docor	intion	
City of Dodmand	County Deschutes SE 4 NW 14			م 0
Older Wall	150	of Section _	13E	01
2	Township, Range	(Range is Eas		, WM.
City Redmond State Oreg. 97756	Tax Lot Lot Block Subdivision			
(2) TYPE OF WORK (check):	MAILING ADDRESS OF WELL (or nearest address)UT	iknown		
New Well Deepening  Reconditioning  Abandon				
If abandonment, describe material and procedure in Item 12.				
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL of COMPLET	CED W	ELL:	
Rotary Air Driven Domestic Industrial Municipal	Depth at which water was first found 362			ft.
Thermal:	Static level 362 ft. below	land surfac	e. Date5-	24-85
Other:		r square inc		-
Cable Bored Description Plesometric Grounding Test	(12) WELLIOC.			
(5) CASING INSTALLED: Steel Plastic	(12) WELL LOG: Diameter of well below ft. Depth drilled			5 ft.
18 +3718 3	Formation: Describe color, texture, grain size and structure			
18. Diam. from +3 ft. to -7182 ft. Gauge .375	and nature of each stratum and aquifer penetrated, with at	least one en	try for each	change of
ft. toft. Gauge	formation. Report each change in position of Static Wa water-bearing strata.	ter Pevel at	nd indicate	principal
LINER INSTALLED: Steel 💆 Plastic 🖵		Τ		
Threaded D Welded C	MATERIAL	From	Тъ	8WL
12 Diam from 7073 ft to 765 ft Gauge .250	Top Soil, Sandy	6	2	
(6) PERFORATIONS: Perforated?   Yes  No	Broken Lava Conglomerate	2	8	
Size of perforations in. by in.	Lava Conglomerate	8	27	
At to ft.	Broken Lava, Cindery	27	30	
perforations from ft. to ft.	Red-Black Lava, Soild	30	55	
perforations from	Pumice Conglomerate	55	60	
	White Pumice	60	92	
(7) SCREENS: Well screen installed?   Yes □ No	Cindery Black Rock	92	97	
Manufacturer's Name Johnson	Red-Black Cindery Rock	97	105	
Type P.S. (see pg. 3 for full screen info)	Cinders & Clinkers	105	113	
18 Slot Size • 050 Set from 533 • 5 π. το 553 • 5π.  Diam. 12 Slot Size • 050 Set from 735 ft. το 755 ft.	Red Cinders	113	122	
	Cinders& Lava Rock	122	126	
(8) WELL TESTS:  Drawdown is amount water level is lowered below static level.	Black Basalt	126 137	137 143	
The state of the s	Red-Black Basalt, Broken Hard, Black Basalt	143	247	
Was a pump test made? Yes No If yes, by whom? Buckner Pump	Red Cinders, Soft	247	251	
d: 1300 gal./min. with 40 ft. drawdown after 72 hrs.	Black Basalt	251	254	
Air test gal./min. with drill stem at ft. hrs.	Red Cinders	254	345	
A Total Action of the Control of the	Brown Sandstone, Mild	345	365	
Make a series of the series of	Brown Sandstone, Coarser	365	374	
Artesian flow g.p.m.  Depth artesian flow encountered	Brown Sandstone W/Pea Gravel	374	385	
poraculte of water Deposit alreadant flow effective our annual and a	Date work started 11-27-84 /complet	ed 5-2	5-85	
(9) CONSTRUCTION: Special standards: Yes \( \subseteq \text{No.X} \)		<del>-</del> 25		19 85
Well seal—Material used Portland Cement	(unbonded) Water Well Constructor Certific	ation (if	applicah	le):
Well sealed from land surface to	This well was constructed under my direct sug			
Diameter of well bore to bottom of sealin.	information reported above are true to my best kn			
Professional Control of the Control		Date 6		19 85
dount of sealing material	[Signed]	Date	······································	10
How was gerned frout placed? Pumped	(bonded) Water Well Constructor Certificati			
AN 1 2 2 DEOL		WEST rety Company	Naa\	
TESOURCES DEFY	On behalf of Buckner Pump Service	ety Company	y Mame)	
PARTITION TO Type HP Depth 1. Wardhild the used? Type & No. Phys. Size location ft.	(type or print name of W	ater Well Cor	nstructor)	
We caltrive slice used?    Yes  No Plugs Size: location ft.	This well was drilled under my jurisdiction a	nd this re	port is tr	ie to the
Type of Water? depth of strata	best of my knowledge and helief:			
	Cobout White	21		
Method of sealing strata off  Was well gravel packed?	(Signed) (Water Well Construc	tor)		
	(Dated)June 6, 1985	***************************************		
41				
"gravel from NOTICE TO WATER WELL CONSTRUCTOR The original and first copy of this report	WATER RESOURCES DEPARTMENT, SALEM, OREGON 97810		8P	46866-690
The original and first copy of this report are to be filed with the	within 30 days from the date of well completion.			

### STATE OF OREGON

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WATER WELL REPORT (as required by ORS 537.765) JUL 12 1985 PLEASE TYPE of PRINT IN INK

Pg.	2	of 3/55/13E-22/	(
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	WATER RESOURCES DEPT		(for official use only)
(1) OWNER:	SALEM, OREGON	(10) LOCATION OF WELL by legal	<del>-</del> .
Name City of Redmo	ond	150	120
Address City Hall City Redmond		Township, range	Range is East or West) WM.
TI TIME	StateOreg, 9775		
(2) TYPE OF WORK	(check):	MAILING ADDRESS OF WELL (or nearest address) UNK	nown
New Well <b>K</b> Deepening $\square$	Reconditioning  Abandon		
If abandonment, describe material	and procedure in Item 12.		
(3) TYPE OF WELL:	(4) PROPOSED USE (check):	(11) WATER LEVEL of COMPLET	ED WELL:
Rotary Air Driven D	Domestic Tridustrial Municipal	Depth at which water was first found 362	ft.
Rotary Mud Dug D	Thermal:  Irrigation	Static level 362 ft. below	and surface. Date 5-24-85
12.	Other:	Artesian pressure lbs. per	square inch. Date
Cable 4 Bared .	Piezometric Grounding Test	(12) WELL LOG: Diameter of well below	
(5) CASING INSTAL	LED: Steel 🖔 Plastic 🗆	Depth drilled 765 ft. Depth of	casing 765 ft.
	Threaded 🗆 Welded 🔀	Formation: Describe color, texture, grain size and structure	
18.* Diam. from+3 Diam. from	<del>-</del>	and nature of each atratum and aquifer penetrated, with at la formation. Report each change in position of Static Wat water-bearing strata.	
LINER INSTALL		- VARIOUS I	
		Dk. Brwn. Sandstone & Blk. San	d 385 396
1.2." Diam. from7.0.7.15	ft. to7.6.5 ft. Gauge2.50	Dk. Brwn. Sandstone & Blk. Sand	u 363 390
(6) PERFORATIONS	Perforated? Yes TNo	more firm	396 450
Size of perforations	in. by in.	Brwn. Sandstone-finer Sand	450 455
M al alconomic and a series and	perforations from ft_ to ft_	some clay bonding	430 433
<b></b>	perforations from ft. to ft.	Dk. Brown Sandstone, some mult	- 455 528
	perforations from ft. to ft.	colored pea gravels, possible	
(7) SCREENS: Wat	l server installed? My Ves  No	water-465-485'	
Manufacturer's Name Johns	l screen installed? . 🛎 Yes 🔲 No .	Grey-Brwn. Tufted Ash Layer	528 540
Type P.S. (see pg. 3	for full screen info)	Firm	
	ize	Sandstone Conglomerate, Slow	
Diam 12 Slot S	ize 5. Set from 735 n. to 755 n.	Drilling Gravels-Dk. Brwn	540 565
	Drawdown is amount water level is lowered	Med. Brwn. Sandstone	565 590
(8) WELL TESTS:	below static level	Fine graned w/some clay bondg	
Was a pump test made? 🛛 Yes	□ No If yes, by whom? Buckner Pump	Dk. Brwn. Sandstone, Coarser	
	gal./min. with 40 ft. drawdown after 72 hrs.	Sands	590 620
		Coarse, DK. Brwn. Sandstone	620 645
Air test	gal./min. with drill stem at ft. hrs.	w/찮" minus pea gravels	
Bailer test	gal./min. with ft. drawdown after hrs.	Coarse DK. Brwn. Sandstone W/	
Artesian flow	g.p.m.	more gravel-harder	645 650
perature of water 54*	Depth artesian flow encountered ft.	Finer Grained Sandstone	650 697
(9) CONSTRUCTION	Special standards: Yes No X	Date work started 11-27-84 /complete	
	Portland Cement	Date well drilling machine moved off of well 5-25	5 19 <u>85</u>
Well sealed from land surface to	50 4	(unbonded) Water Well Constructor Certifics	tion (if applicable):
Diameter of well bore to bottom of	seal24 in.	This well was constructed under my direct supe	
Diameter of well bore below seal		information reported above are true to my best known	
Amount of sealing material	85 sacks 🛭 pounds 🗆	[Signed]	Date
How was cement grout placed?	Pumped	(handed) Water Well Constructor Contistentia	
		(bonded) Water Well Constructor Certification Bond 10596951 Issued by: AMWES	
	-	(number) Sent Convert co	aty Company Name)
Was pump installed?	Type HP Depth ft.	On behalf of Buckner Pump Service (type or print name of Wa	ter Well Constructor)
Was a drive shoe used?			
Did any strata contain unusable wa	·	This well was drilled under my jurisdiction as	nd this report is true to the
Type of Water?	depth of strata	best of my knowledge and belief:	
Method of sealing strata off	<u> </u>	(Signed)(Water Well Construct	
Was well gravel packed? Yes		#8 (Water Well Construct	x)
Gravel placed from520	ft. to7.6.5 ft.	(Lavel)	
A STATE OF MARKET	OTICE TO WATER WELL CONSTRUCTOR	WATED DESCRIPCES DEDARMANT	CD1 14004 PD

\$ gravel from
50' to \$20'

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

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion. SP\*46866-690

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STATE OF OREGON

JUL 1 2 1985

WATER WELL REPORT JULIZ 1985

(as required by ORS 537.785) WATER RESOURCES DEPT

Pg. 3 of 3

(for official use only)

	(1) OWN	ER.			MLEM,	DREGON		(10)	I OCAT	TON O	e wee	L by legs	l dogo		
								(10)	Desch	iites	. WELL			- 20	•
	Name	City o			-				7 50	4000		¼¼	of Section		of
-	Address City	City H				State 0	0775	Townsh	110	p is North or	South)	, Ranga		ast or West)	, WM.
		Redmon	-			State Oreg	9115	Tax Lot.	Lot_	Blo	ck	_ Subdivision			
	(2) TYPI	E OF WO	RK	(check):				MAILIN	G ADDRESS C	OF WELL (or	nearest ad	dress)	inknov	m.	
	New Weli	Deepen	ing 🗌	Reconditio	ning 🗆	Abandon 🗆									
	If abandonmen	t, describe m	aterial	and procedure in	Item 12.			.			_				
	(3) <b>TYPE</b>	OF WE	LL:	(4) PRO	POSED	USE (che	eck):	(11)	WATER	R LEVE	L of C	COMPLE	red w	<b>ELL</b> :	
-	Rotary Air 🔲	Driven			Industrial	☐ Municipa	<b>V</b> .	Depth a	at which water	r was first f	ound	362			ñ.
-	Rotary Mud	Dug		Irrigation [	Thermal: Withdrawal	Reinjection	on 🗆 .	Static le	evel 36	2		ft. below	land surfa	ice, Date 5	-24-85
	X	Bored		Other: Piezometric L		☐ Test		Artesia	n pressure			lbs. per	square in	ch. Date	
	<b>─</b>							(12)	WELL I	L <b>QG</b> :	Diame	ter of well below	w casing		
	(5) CASI	NG INS	TAL	LED: Steel		Plastic	<b>X</b>	Depth d	drilled	765	-	ft. Depth o	f complete	ed well	765 A
	18 / Dies		3	Three 71.83		Welded .375	_	Format	ion: Describe o	color, textur	e, grain si	ze and structure etrated, with at	of materia	ile; and show	v thickness
				ft. to		9. M k		formati	on. Report ea	ch change	in positio	n of Static Wa	ter Level	and indicat	e principal
٠,	_	R INST				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		water-b	earing strata.						
1	LINE	R INSI.	ALL	ED: Steel		Plastic Welded	뒫	<u> </u>		MATERIA			From	То	SWL
	1.2* Diar	m. from7.0	7.3	ft. to7.65	ft. Gauge	250			& Some				697	710	362
	(6) PERF	OP ATT	ONG	le Wine:	ated?  \[ Y \]	- FL V			ter bet						778
	Size of perforat		OIVS	in. by	ated: L I	es <u>T</u> rNo in.		Sand	stone-B			tuff asl	710	728	362
-				perforations	Inom	# to		7			d whi		710	75/	262
				perforations					n Sands				728	754	362
_	***************************************			perforations					Grey Ba		and G	Lavers	754	765	362
	/#\ CODE	TONG.						DK.	drey pa	Durc .			7,54	103	
	(7) SCRE			l screen installed										-	
	Manulacturers	Name	onns	ton		.d.1 37.		·	<del>- :</del>	- 1 · · ·					
	Diam 18		Slot S	ize. 050 Set	from 533	5 a + 553	5	and	503 51	+0 63	3 51	and 600	E	709 5	
				ize0.50. Set								<del>4114 000</del> 4	J 10	1.00.3	
						ter level is lov		<u> </u>		_					
	(8) WELI	LIESIS	5;	below static l	evel				<u>2</u> E(	FIVE					
	Was a pump tes	st made? 😾	Yes	☐ No If yes, b	y whom?					as vope it it is	234 442			-	
-	d: 130	00		gal./min. with	40 ft. drav	vdown after 7		·		1 2 2	912				
_	<del>-</del>				1.	<u> </u>		<del></del>			7				
-	Air test			gal./min, with			hrs.	. — - W	VATER RES	SOURCE	SDEP	T			
-	Bailer test		1	gal./min. with	ft. drav	vdown after	hrs.	<u> </u>	SALEN	и. OREG	ON		-		
	Artesian flow		4*	g.p.m.	esten flam av		· ·			<u> </u>	<u> </u>				
	perature of		<u> </u>		esian now en	countered		Date wo	ork started _1	1-27-8	34	/complet	ed 5-2	5-85	
	(9) CONS	STRUCT	ION	Specia	ıl standards:	Yes 🗆 No	Æ		ell drilling mad				25-85		19
	Well seal-Mat	erial used	Por	tland ce	nent	50	, a	(unbo	nded) Wate	er Well C	onstruc	tor Certific	ation (if	applicat	ole):
	Well sealed from	n land surfac	e to	24			ft.	.   ` _	- ·			my direct sup	•		· · · · ·
	Diameter of we	II DOLE IO DOL	JIII OI	<b>3</b> /				inform	ation report	ed abpve a	TIS ETTE	g my best kn	owledge i	and belief.	
	Amount of seali	ing metarial		_ 85	ın.	виска 🏝 р	ounda 🗆	[Signed	d1 /	JU			Date6.	-6	1985
	How was comer			Pumped		васка ст р	ounus 🗀	1			7				
		To Broat piece						1 '				Certificati	on:		
								Lonal	0596951 (number		ssuea by:	AMWEST (Su	rety Compa	ny Name)	
				Туре				On beh	alf of Buc	kner l	Pump S	Print name of W	ater Wall Co	natructor)	
	Was a drive sho	e used?	Yes	No Plug	B Si										
_	Did any strata		able wa						his well was my knowled			jurisdiction s	ınd this r	eport is tr	ue to the
<b></b> .	Type of Water?			depth of a	ırata										
	Method of seali		<b>r</b> i			Mont	Orest 1	(Signed	d)	***************************************	(Wat	er Well Construc	tor)	······································	***************************************
	Was well gravel		Yes 20	□ No	Size of	gravel: Mont		(Dated		June	6, 19	985	*************		
1	Gravel placed fi			OUTLOS TO YEAR			OD		IV AMOD	PECOLING	en pen	DTMVNT			

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765) Instructions for completing this report are on the last page of this form  (1) OWNER:  Well Number:  Well Number:  Well Number:  Well Number:  Well Number:  Township 15S  Nor S. Range 13E	10198	9
City of Dodmand County Descriptes Latitude		
State OR Zip 97756  Section 2UAA NE % NE Tax Lot 2900 Lot Block Su  Street Address of Well (or nearest address) 19th & Quartz Ave	E or W. o	f WM.
New Well   Deepening   Alteration (repair/recondition)   Abandonment     Abandonment   Comparity   C	Date 3/	
4) PROPOSED USE:  Comparison of the comparison o		
Domestic   X   Community   Industrial   Irrigation	Flow Rate	SWL
208 209 30+		208
pecial Construction approval Yes X No Depth of Completed Well 802 ft. 538 802 9000		208 259
Yes   X   No   Type		
Material Fro		SWL
Gray Basalt 0 Red & Black Cinders 39	39 40	
Brown Ash & Cinders 40	45	
wwas seal placed: Method A B X C D E Brown Basalt 45 Gray Basalt 48	48 54	
Other Brown Ash 54	55	
imilipaced from 100 m. to 373 m. Marshall Berliton 198 Silica Pes	81.5	
Gray Turr 81.	86 101.5	-
Gray Volcanic Conglomerate 101	5 124	
sing: 16"   +2   507   375     X		
16" 547 567 375		
138 I Brown & Gray Lava with Ash	157	1
or:	159 161	
Brown & Gray Basalt & Ash	167	1
al location of shoe(s) Hard Gray & Brown Basalt 167	172	
PERFORATIONS/SCREENS: Soft Brown Ash Gray Basalt Medium Hard 174	174 177	
Perforations Method	184	
X  Screens Type Stainless Material 316L Brown & Gray Basalt with Gray Ash 184	190	
om To size Number Diameter size Casing Liner   Brown Lava with Ash   204	204 208	
67 797 .080 16" Pipe Continued on next page  Date started 8/29/97 Completed 3/23/9	5	
(unbonded) Water Well Constructor Certification:		
! certify that the wind a conformation of this well is in compliance with Gregor water supply well const	i, or <b>accan</b> d ruction sta	onment ndards.
) WELL TESTS: Minimum testing time is 1 nour  Pump ☐ Bailer ☐ Air ☐ Flowing  Artesian  Materials used and information reported above are true to my be belief. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	st knowled	
old gal/min Drawdown Drill stem at Time Signed WAFER RESOURCES DEPT. Date	mber .	
300 2.5' 360 24 hr. GAH CALCON (bonded) Water Well Constructor Certification:	lonme-t	net .
I accept responsibility for the construction, alteration, or aban performed on this well during the construction dates reported ab		
emperature of Water 57 Depth Artesian Flow found performed during this time is in compliance with Oregon water s as a water analysis done?  X  Yes By whom Coffee Labs construction standards. This report is true to the best of my known day strata contain water not suitable for intended use?  X  Too little		
Salty   Muddy   Odor   Colored   Other   Signed   Signed   Signed   Owestern Water Development Corporate   Owestern Water Development	-27-	98

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

拉拉 5 1003 desc 51047

WELL ID#

(STA

ART CARD)#	101989	
<b>,</b>	Page 2 c€	

(1) OWNER:		Well Number:		(9) LOCATION OF V	VELL by legal descri	ption:		
	f Redmond			Township 15S	Nor S. Range 13E		or W. of	
Address City		State	 Zip	Section 20AA	%		%	
			- P	Tax Lot Lo	t Block	Subd	ivision	
(2) TYPE OF	WORK:		_	Street Address of Well	(or nearest address)			
New Well	Deepening Alt	teration (repair/recondition	n) Abandonment					
(3) DRILL ME		1'71	r=1 -		ow land surface.			···
∏ Rotary Air	Rotary Mud	Cable	Auger	Artesian pressure	lb. per squar	e inch. [	Date	
	Dues.		distribution and the second	(11) WATER BEARI	NG ZONES:			
(4) PROPOSE		r~1	('')	Depth at which water w	es first found			
Dornestic   Thermal	Community   Injection	Industrial	│ │ Irrigation │ │ Other	From	To E	stimated FI	nu Bata	CVA/I
		1		Tion	1	sumated Li	OW PCANE	SWL
(5) BORE HO	LE CONSTRUCT	ion:						
•		No Depth of Comp						
•	[]]Yes [] No Typ		nount					
HOLE Diameter From	To Materia	SEAL n From To	Amount sacks or pounds	(12) WELL LOG:				
	Materia		Suchs of poulids	1	Ground elevatio	n		
					fatarial		T	
				Red Cinders WB (s	Material ealed off )	208	7o 209	208
	<del></del>			Brown Lava with A	sh	209	226	208
				Hard Gray Lava wit		226	235	208
How was seal pla	ced Method A	B C D	[] E	Brown Conglomera		235	245	208
Other	out. Incured			Gray Conglomerate		245	275	208
Backfill placed fro	m ft. to	ft. Material		Brown Conglomera Brown Lava with G		275 305	305 325	208 208
Gravel placed fro	mft. to	ft. Size of gravel		Brown & Gray Cong		325	342	208
(6) CASING/L	INER:			Brown Lava & Ash		342	366	208
• •		Course Charles Plantin	Walded Threeded	<b>Brown Conglomera</b>	te with Ash Wb	366	389	208
	er From To G	Gauge Steel Plastic	Welded Threaded	Brown & Gray Cong		389	405	208
Casing:				Brown Lava with A		405	425	208
,	· [ ] [			Gray Conglomerate Hard Gray Lava wit		425 439	439	208
				Medium Hard Gray	l ava some Ash	459	459 480	208 208
Liner:				Hard Gray Lava wit		480	508	208
		.   .		Hard Gray Basalt	7.41	508	536	208
Final location of s	noe(s)			Broken Lava, Sand		536	565	259
(7) PERFORA	ATIONS/SCREEN	S:		Silty Sand & Lava C		565	608	259
Perforation	ons Method			Brown, Gray Broker Brown Sand & Gray		608	681 691	259 259
Screens	Туре	Material		Brown Vesicular La		691	706	259
	Slot	Tele/pipe		Medium Gray Basa		706	710	259
From To	size Number	Diameter size	Casing Liner	Brown Vesicular Ba		710	714	259
	- · · · - <del>  -</del> · · · · · · · · · · · · · · · · · ·			Continued on next	page			
	T			Date started	1 7 Completed	<u>_</u>	23	-108
			i i i	(unbonded) Water Wei	I Constructor Certificat	lon:		
					rformed on the construction,			
(8) WELL TES	STS: Minimum te	esting time is 1 ho	ur		The Diogram water supply			
Pump	Bailer	[] Air	Flowing	belief.	and the state of t	to my best	Knowled	ge and
Pump	[] Daliei	[ ] 📶	Artesian		1000	WWC Nun	ber	
Yield gal/min	Drawdown	Drill stem at	Time	Signed	1998	Date		
					Calabana Cal			
					OURCES DEPT.	1:		
				I accept responsibility for	onstructor Gertification the construction, alteration	or abando	nm <b>ent</b> w	ork
				performed on this well duri	ng the construction dates re	ported abov	e. All v	
Temperature of W	/ · · · · · · · · · · · · · · · · · · ·	Depth Artesian Flow found	1		is in compliance with Orego			
	ysis done? Yes		Too time	construction standards. Ti	nis report is true to the best of	•		
•		o for intended use?	_ Too little	Signed		WWC Num Date	per 13	, O
Depth of strata:					n Water Developmen		ation	
	DST CODY - \MATE	ED DESCUIDCES DE	PARTMENT SEC	OND COPY - CONSTRU				

STATE OF OREGON MAY s 100**3** WELL ID# WATER SUPPLY WELL REPORT 101989 (as required by ORS 537.765) (START CARD) # instructions for completing this report are on the last page of this form Page 3 (1) OWNER: (9) LOCATION OF WELL by legal description: Well Number: County Longitude City of Redmond Name Township 15S Nor S. Range 13E E or W. of WM Address Section 20AA **Y**4 City Zip Tax Lot Block Subdivision (2) TYPE OF WORK: Street Address of Well (or nearest address) New Well Deepening Alteration (repair/recondition) Abandonment (10) STATIC WATER LEVEL: (3) DRILL METHOD: ft, below land surface Date Rotary Air Rotary Mud Cable Auger lb. per square inch. Date Other (11) WATER BEARING ZONES: (4) PROPOSED USE: Depth at which water was first found Domestic Community Industrial Irrigation Thermal Injection Livestock Other Estimated Flow Rate SWI (5) BORE HOLE CONSTRUCTION: Special Construction approval [ ] Yes | No Depth of Completed Well Explosives used [ ] Yes [ ] No Type HOLE SEAL **Amount** (12) WELL LOG: Diameter From From To sacks or pounds Ground elevation Material From SWL Gray Broken Lava Hard WB 738 714 259 Brown Vesicular Lava Pinholes WB 738 765 259 Brown & Gray Lava WB 765 783 259 Soft Brown Conglomerate WB 783 802 259 С D How was seal placed: Method | A Other RECEIVED Backfill placed from Material ft. to ft. Gravel placed from ft. Size of gravel (6) CASING/LINER: TAN 1-2 2012 Gauge Diameter To **Plastic** Welded Threaded EH RESOURCES DER SALEM OREGON JUL - 1 1998 WATER RESOURCES DEPT. Final location of shoe(s) SALEM OREGON (7) PERFORATIONS/SCREENS: Perforations Method Screens Type Slot Tele/pipe Casina From Tο size Number Line  $\Gamma$  $\Box$ 

(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 water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed WWC Number \_\_\_\_\_\_

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed Date
Western Water Development Corporation

Pump	Bailer	[ ] Air	Flowing Artesian
ield gal/min	Drawdown	Drill stem at	Time
		L	
		Depth Artesian Flow fou By whom	
id any strata con ] Salty 🏻 [] Mud	itain water not suitabl	le for intended use? Colored Other	Too little
oid any strata con	tain water not suitabl	le for intended use? Colored Other	Too little

SECOND COPY - CONSTRUCTOR

THIRD COPY - CUSTOMER

WZ11 +6

STATE OF OREGON

WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form

SS853

WELL ID # 64895

(START CARD) # 150744

(1) OWNER: Well Number: #6 Name City of Redmond	(9) LOCATION OF WELL by legal description:  County Deschutes Latitude Longitude  Township 15S N or S. Range 13E E or W. of WM.
Address 875 S.E. Sisters, Ave.  City Redmond State OR Zip 97756	Section 21(D) NW 1/4 SE 1/4
	Tax lot 400 Lot Block Subdivision
(2) TYPE OF WORK:	Street Address of Well (or nearest address) 2551 S.W. 6th St.,  Redmond, OR
New Well Deepening Alteration (repair/recondition) Abandor	(10) STATIC WATER LEVEL:
(3) DRILL METHOD:  Rotary Air Rotary Mud X Cable Auger	336 ft. below land surface. Date 12/22/03  Artesian pressure lb. per square inch. Date
Other	(11) WATER BEARING ZONES:
(4) PROPOSED USE:	Depth at which water was first found
Domestic X Community Industrial Irrigation	
Thermal Injection Livestock Other	From To Estimated Flow Rate SWL 342 697 1500 336
(5) BORE HOLE CONSTRUCTION:	697 811 1000 336
Special Construction approval Yes X No Depth of Completed Well 85	5 n. 811 867 4000+ 336
Explosives used Yes X No Type Amount HOLE SEAL Amount	1
Diameter From To Material From To sacks or pour 26in 0 867 Cement Grout 374 399 88 sacks	Ground elevation
	Websites
	See attached lithology prepared by Mr. Dale  Bugenig. Hole sloughed back prior to casing
	installation in bottom. 857-867.
How was seal placed: Method A B XC D E	installation in bottom. 857-867. RECEIVED
Other  Backfill placed from 99 ft. to 399 ft. Material Bentonite 31cyc	
Gravel placed from 399 ft. to 855 ft. Size of gravel 6x12 RMC	MATON
(6) CASING/LINER:	RECEIVED "MIEH HESOURCES DED.
Casing: 16in +2 550 .375 X	RECEIVED WATER RESOURCES DEPT SALEM, OPEGON  JAN 28 2004  Western Water Development
Final location of shoe(s)	·
(7) PERFORATIONS/SCREENS:	P.O. Box 1670
Perforations Method Factory	Redmond, OR 97756
X Screens Type Slotted Material SS316L	
Slot Tele/pipe From To size Number Diameter size Casing Lin 550 850 .070 16in pipe [X]	iner
Tan bike	Date started 4/2/03
(8) WELL TESTS: Minimum testing time is 1 hour  X Pump Bailer Air Flowing Arter	(unbonded) Water Well Constructor Certification:  I certify that the work I performed on the construction, alteration, or abandonment of this well is in corruptiance with Oregon water supply well construction standards.  Materials used and information reported above are true to my best knowledge and belief.
X   Pump	Signed Date
2700 6 400 24 hr.	
	(bonded) Water Well Constructor Certification: Laccept responsibility for the construction, alteration, or abandonment work
Temperature of Water 54 Depth Artesian Flow found	performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well
Was a water analysis done?	construction standards. This report is true to the best of my knowledge and belief.  WWC Number 1385  Signed Date 1/27/04  Robert Buckner
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT	SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

Desc

FROM-ECO:LOGIC ENGR RENO

# LOG OF BOREHOLE

BOREHOLE REDMOND WELL #6 PAGE \_\_!\_ OF \_\_6\_ LOC. OR COORDS.\_ DRILLER WESTBEN WATER SEX SEL. START FINISH 21. T. 158. R. 13 E. ( Willamotte Mar) DEVELOPMENT DATE 4/02/03 10/31/03 GROUND ELEV .\_ TIME 08:30 RIG BAGYRMS-BRIE 36L TOTAL DEPTH. GEOPHYS. LOG LYES \_N GALE ABBRATHY & BYE BACKNES BOREHOLE DIAM. 26" BIT(S) 21" 54~ HOW LEFT See Compt /cm 44015.175H FLUID NOT Applicable CIRC. AIR LIFT SYM-BOL MATERIAL DEPTH DESCRIPTION AND COMMENTS RATE CI/347 7/2 I-14' Grey vesicular lava 10,425' 10 4/3 <u>ۍ</u> د 4/4 14-241' Hard gray larg 20 ٧A 24-285. Brown lara u/red conders 114=51C 4/1 gi-32 Hard gray lave 33-55 Darle berown farry lave, Hard. 35-33 Dark Brown darry lave rook, broken or easing 30-32 Brown tarry lave, broken, caving 120-32 Brown tarry lave, broken, caving 120-30 Hard gray lave 43-43 Hard gray rock 43-43 Hard gray rock 43-43 Hard gray rock 43-43 Hard gray rock 置 30 4/a 1 OCATION 3 √i† COGGED 41= 40 3 1/13 47-50 Grey lava rock *50* -Hard gran lava 3 ·//U 55-59 Hard gray lava 4/14 Med gray lava Larg ;=10w 60 1/10 siet mediam gres lara 4/18 ŝ 66-71 Medium grey lara 1/24 70 7-77 Milium gray lava 1/30 Medi grey lava 80 Med. hard grey lava 90 Harder grey & brown larg 12-95 7 Hard dark gray lara 3 95-101 Black, grey 4 brans lans 5/7 100 5/8 REDMOND 141-14. 4 1074-1064 Red Cinder conglismont 4 110 110-115 3 113-115 Brown + Grey Lana 2 5/11 1/2 Ÿ 115-119 Brown 4 Gray ben 110 719-122 Hand gray have 73 -/13 PROJECT CITY 5)14 Law flow 130 111-134 Hard SMy lare 5/4 5/17 3 154- 134 Herd Gray Lard RECEIVED 1 136-176 Med grey berg 140 Med gray lava 142-146 Slo JAN 28 2004 Squa Stone

DEC-29-03 09:37

**DESC** 55853 DRILLERS'

LOG OF BOREHOLE

## BOREHOLE LEDMOND WELL

PAGE 2 OF 6 LOC. OR COORDS. SE'4 SEC. 21 DRILLER WESTERN WATER START FINISH T. 155. R 138. (Willem & He Marchen) DEVELOPMENT DATE 4/02/03 12/30/03 GROUND ELEV.\_\_ TIME 08:30 TOTAL DEPTH 872 FT Buckhen RIG BUCYZUS-ERIE 364 GEOPHYS. LOG & YES \_\_NC BOREHOLE DIAM .\_ 2 + " BIT(S) 26" STAR HOW LEFT See Construction FLUID Not Assire 4 4 かんきょうしゅうか Boa CIRC AIR LIFT SYM-BOL PEN. DEPTH MATERIAL DESCRIPTION AND COMMENTS RATE Q(GPM) 921. LOSS GALE ABERNATHY + 42) RECEIVED 1/22 153-162 Hediam Grown sandstone W121 + 10.428' W 160 JAN 28 2004 MISSIMO reports 170 170-194 Brunk force sandstone
170-194 Brunk force - Broken 6 5/27 Water loss 121's 1/18 1700194 Brown & which squadefore 180 面 OCATION 187-197 Brown& blook szadstane 5 5/29 OCCED 190 189-192 Gray & black sandstone 192-196 Gray & brown lava 192-1985 Broken brown & gray 1 6/ L 194-1985 Broken brown + grey Inte RECEIVED 6/<u>Z</u> <del>200</del> 198.1=203 Hard grey basalt, broken 203-206 Hard grey basalt, broken Basalt 3 JAN 1 2 2012 LRIA FION 206-Lil Hard gray basalt, broken 46 خ 210 WATER RESOURCES DEP 111-218 Gray busalt 2 6/7 3 -19 SALEM, OREGON 210-220 Hard grey basalt ۲ 6/10 220 220-22+ Hand gray tasel? 4 w/11 Hand gray baselt. Loss Dac @ 224.5" Broken 224+=220. Hander 226-2221 MAPPIC. ZZO 413 ے ہج Run 2nd Planback Test 5 6/15 120-215 Broken black & brown leva 23.-238 Hard dark grey-black lara - Caring ? a -228-242 Black & Brown laws - Slonghing + = 226" 240 Basalt 0 Black parameters, softer p broken 5 6/19 لسعيد سرامي 817-253 Black & brown 14.4 出刊 263-257 Hard gres beealt

263-257 Hard gres beealt

267-260 Hard gres beealt

200-262 Broken grey have

202-264 Broken grey

204-270 Brown volcanic congluments

240-270 Brown volcanic congluments 6/13 260 8 10/24 CITY OF Volcanic Conglem evalu 270 6/24 ATTE 275-292 Brown unleaned conglowersto 280 STATE 291-295 Brown volcen-c conglumeret Kigdown forregails thru PROJECT. 270 3 273-300 Dark grey volcare conglamerate 7

### Driffers,

## LOG OF BOREHOLE

	BORE	HOLE	<u> </u>	GUNDUD	WELL 6		PAGE 3 OF 6
	-T./5N		36,		Sec21 re Manda	• • • • • • • • • • • • • • • • • • • •	LER WESTERN WATER START FINISH EVERDOMENT DATE 4/02/03 10/30/03
	GROUN				<del></del>		TIME /6:00
<b>\</b>				872.5			BUCYRUS EDE 361 GEOPHYS. LOG TYES NO
. 7	BOREH	IOLE	DIAM	2."			(S) 24' STER HOW LEFT See Comety Lag
Buck H 23	<del></del>			<del></del>		FLU	ID_AJA
BPR Buck	DEPTH	PEN. RATE	CIRC RET. LC	AIR LIFT	MATERIAL	SYM-	DESCRIPTION AND COMMENTS
1			7 7		Volcaria Lorgism - Grage	盟	307-307 307-512 Dark grey release conglowersts
<b>E E</b>	- 30 -	-	3- 3	<b>/</b> + -	-	1778	<del>^</del>
10,43.9' W	720		6 3	<i>†</i> 10	Seadstan		312-318- parkgrey vokanic conglowerate \$16-318 Brown hard sandstons.
	- 320 -		Ĩ₹Ţ,	<i>y</i> . T			718-215 Brown sanditha
7 ]	l .		1 1	114			SETIEF Brown sandstone
_   ₹	- 330 -	<b>3</b> -	<b>†</b> ' † '	· <del>†</del>	<b>†</b>	†	312-584 Back grown sandston a
Ž o			6   7	100 E TAN			316-358 Brown sampitum +
LOCATION.	- 340 -		, ,	114	sandstarc -7 gravel	9.0	288-347 Brown And stone of Gravel
22	-3:0-		<del> </del>		∤ <del>`</del>	-	24 2-2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
			"  '	///>			4 2114 287=340,
	360	4	12 3	4, 5	<b>"</b>	9 9	SER-370 Boom Sindstone of gradel
1 1	- 370		+ +	+	squad stone	12.00	<del>,</del>
	1		ا م، ا	*/z/	7,42,64,6		270-380 Grey early Home
	- 380	<u>.</u>	╂, ╂	145	- -	***	Note: problems with casins, 1000 9. 4/26, Cilled 380 to 371.
			1 1	F/2+			現して引 とりなり grey Sandstone
8	390	I	-	7/2=	Ţ		5/1- 597 grey 5140/5700 t
OF REDMOND	-400-		8			- 44	33 t-hos Brown faces service
RED	- 410		$\mu$	129	_		HENT-4118 Brown sand storma
N G							Rough France Service State State State State
7,17,	420		1,0	7/30	+		THE-428 B+ 3-4 studiton. RECEIVED
4 3	- 430	<u> </u>	$\perp \perp$		1	3.73.	JAN 28 2004
1 1	150		Ţ,» ]	7/31			M28-438 Brown + Jry sandstone of the bound of the same
37	440		+ +	2/1 2/1	+	-	13418-442 Evenut grey sandstone
PROJECT.			1 1	914			446-451 Red. brown Sand stone - Plantness 4419+ment
							test per troman 2

PRILERS'

# LOG OF BOREHOLE

						_	Well b		PAGE 4 OF 6
							Sec.		HER WESTERN START FINISH HER DEVELOPMENT DATE 4/01/03 10/30/03
ı	4	GROUN						<u>سم</u> ر	TIME _08:30
	BHCKNER	TOTAL DEPTH 871 FT BOREHOLE DIAM. 2.6"							Busynes Erus SEL GEOPHYS. LOG & YES _NO
	Buc								(S) 26 STAL HOW LEFT S42 Constal
133,				_				ru	IID_A/A
¥ 15.	ARERNATUR & BELL	DEPTH	PEN. RATE	列凝	<b>Y</b> X	A CO	MATERIAL	SYM- BOL	DESCRIPTION AND COMMENTS
3	ÅT.			u	8/5		eand store		TIP-TIS Ked brown wandstone
83	RA	460-		ļ. <b>"</b> -					RECEIVED .
121° 10,428° 4,5 44° 15,193'A	- 1	-		14	2/6				JAN 1 9 2017
2	BY GALS	- 470 - -			Ī -		~		WATER RESOURCES DEPT SALEM. OREGON
OCATION		- 490 -		"	3/7	-	-		TALEM ONEGON
	OCCED	- 490 -	F.	  -  e -	₹/₹ -		-		189-195 Groy sandstruck - 7-sailing brazion, Abbah 1 m napph
9	907	- 530		L.	<u> </u>				495-500 Brom + gray sandston a
				13	8/11				300-108 Grey sandstone, soften
		- 510 -		18	8/12	-	-		RECEIVED
		- 520 -	₽.	╁.	ļ.	-	_	1	1
				10	8/3				520-530 Broomf gray sandatona JAN 28 2004
		- 530 -		12	8/4		sandstone w) graval		530-542 Brown standstone w) pen gravel
4		- 540-		+ .		-			192-154 Dook gren itsed throw of 3 parts
REDMOND				ļ. <u>-</u>	2/15		<b></b>	2	
	1	- 530 -		<b>.</b>	<u>ا</u>	↓ .		2	
30	1		* 5 .	,,,	6718				sondstone of greeks
۲ آ	7#	- 570		<b>†</b> "	8/19	•			paribly sloughing
	1	580	-	13	5/20	+ -	†	2.0	1-27-590 Dark gray sandstone of grarel
PROJECT	3	570			+ .		+	19.00	e-ho-2-63 Dank died zauge m) dieses =
DR(		600	i Lin	15	4/20				1570-177 Tan-brown sunditions by gravels

PRILLET25' LOG OF BOREHOLE

	BORE	HOLE	R	edmea	ع العصال		P	AGE OF 6		
با 1					50c		TER WESTERN TER PEVEL-MENT	START FINISH		
بَدُ .	_	ND ELEV		<u> </u>		<u> 17 A</u>		DATE 4/02/03 10/20/03 TIME 08:30 16:00		
\ \frac{1}{20}		DEPTH.		172 FI		RIG	Bucy Rus-62, 2 966	GEOPHYS. LOG YES NO		
M		OLE DI					S) 26" STAR	HOW LEFT Sea Constr. Long		
25./A	BOIL		- 1 TO			•	ID N/A	HOW LET 1		
4 13 e		F7 / D4	1 pot	e						
	DEPTH	PEN. E	irei, Llas	AIR LIFT Q(GPM)	MATERIAL	SYM- BOL		N AND COMMENTS		
ABERNATHE		15	. Sln		sandstone w/grave		378-645 Ten-bream sandit	enc of gravels		
21" 10.448" LE ABEN	- 610 -	[2]	8/21		-		bos-big Brown sandstone w/ gravel			
3746	- 620 -	ייו	וע ש או				bi8-632 Brown squistone w/ grand			
<u>}</u>	- 630 -			ļ. ļ		-				
OCATION OGGED 1	- 640 .		144		-		622-650 Dapp brown a	and stone of conders &		
1007	-650-			<b>-</b>						
	- 660		\$ 8/27			650-670 Dank brown sandstone wol grave 15				
;	670		† -	-	<del> -</del>	0.0	670-684 Dark brown	zand store as gravely		
	680		. <u> </u> 9/19	-		ē				
a	670	-	% 8) 19	-	<u> </u>		-686-697 Dank brown Condors	sank source -/ graves k		
REDMOND	700	- 5	Ţ <u></u>			-	A 9 4 723 Mad gray haca.			
RED	710	31	913				304.3085 HAVE 3143 40/9 15	RECEIVED .		
4	- 720	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/10		\$ = 5=1+ Lava  =100		708-7125 712-715 Hand grey baselt 715-71615 Hand grey baselt	JAN 28 2006		
6 6			5 P/11			H17 5776-F	1745-724 Hora ara baselt			
	73	<b>L</b> †,	+	1 -	†		727-787 Horages 6+1+11			
<b>당</b> 3		1	9/16		Same stone		735-7455 Hand gray basa 7355-741 Brown sawsome	nd   =on gravel		
PROJECT.	740		1 1/1		w/g +4/41		711-746 Brown sawitan	•		
₾.	1 757		1 7/			: 87.4	746-703 gray 504-447	-1 91		

DRILLERS'

# LOG OF BOREHOLE

ال ا	GROUN	S, Z.	.28/x EV	n ilana je i		<u>_</u>	LER WESTER	START FINISH  DATE 4/02/03 10/30/03  TIME 08:30 Alpo		
F BACKNE	BOREH			872 ! 26"	<u>/+</u>	BIT(	BMCYRUS-BOS 36L S) 26" 57AL ID Non 5	GEOPHYS. LOG XYES _NO HOW LEFT See Constr.		
4.80.R	DEPTH	PEN. RATE		AIR LIFT Q(GPM)	MATERIAL.	SYM- BOL	DESCRIPTIO	N AND COMMENTS		
NATES Y	- 740 -		12 9/2 13 9/1 3 9/1 3 9/1		Sand ston a Busalt	2.0 R	717-757 Hard gray residuality 217-757 Hard gray residit 277-760 Hard gray basilt 700-768 Hard gray basalt	rlava		
	- <del>77</del> 0 -	•	4 1/2 7 7/2	<u>-</u>	thou mountary ()		THE THE PARK GROUND LAND TO DARK GROUND LAND COMMENTS DARK GROWN LAND COMMENTS THE	RECEIVED  JAN 28 2004		
าั่	- 240 -		4 9/2 4 9/2	† •	-		780-180 Gray Vesicular Basal  284.308			
LOGGED	- 790 -		7 9/31 2 10/4 3 10/4		Postery to		-788-792 thank gray buselt 792-799 thank gray beselt 794-797 thank gray beselt 794-797 thank gray beselt			
	_ 81D _	5	2 5 19/1 5 10/1				803-894 then gray becalt 806-807 than gray becalt 207-811 Perh gray residular 811-814. Perh gray Vesicala	•		
	- 820 -		3 (p/s		W. Links		82-810 Francish Land	i NO SAMPLE		
	- 840 -		5 10/2 7 10/2 3 10/2	_	-	1	830-835 Fracture Lara ? 835-842 Fracture Love ? 942 Sur Fracture Love ? Sulfings octured	NO SAMPLE HOLD dared 341 NO SAMPLE NO SAMPLE		
A CARACT	8.3		8 10/2 2 10/2 4 10/2	2	NO TIPLE	ng things	Systy large person and control of the control of th	1 84 195		
9	- 840 - - 870 -		5 (0)		GIASENS, Sand & gravel	-011	ale STI Brown & are vesical	t grands, Note: 4" of fine at late.		
WECI CLTY	- 880 -			-	-	-	24379-1.43. Beiltu	ns on 10/28 where the formation of hole on 10/80.		
PROJECT Mary			+ +	+ -	_	+ -	- RECEIVED			

7111

			WE11 #7
STATE OF OREGON ATER SUPPLY WELL REPORT a required by ORS 537.765) structions for completing this report are on the last page of	DESC 57788	De50 51188	WELLID # L 84243 (START CARD) # 1871

(1) OWNER: Well Number: 7									(9) LOCATION OF WELL by legal description:  County					
Address	City of P.O. Bo	x 726			0				Township 15S N or S. Range 13E E or W. of WM. Section 10(D) NW 1/4 SE 1/4					
CHy	Redmo				State (	2R_4	97756	<u> </u>	Tex lot 1100 l	Lot Block	_	Subdiv		
	PE OF V		_	Manadian (na					Redmond, OR	ell (or nearest address) 4 97756	150 NE	11th S	<u>L.</u>	
_	Nell 🗌	•		teration (re	pair/recc	HOMBON)	ADE	indonment	(10) STATIC WATE					
Rotan	3) DRILL METHOD:  Rotary Air Rotary Mud X Cable Auger								1 1	olow land surface.   lb. per sc	quare inc		to <u>12/</u> 1	3/2006
Other									(11) WATER BEAF	RING ZONES:				
_	OPOSE								Depth at which water	was first found 335				
☐ Dome			mmunity action	Indus			☐ Irrigatio	on .	From	То	Estin	nated Flov	v Rate	SWL
(5) BO	RE HOI	E CO	NSTRUC	_	Denth o	of Como	leted Wel	860' n.	335	850		5000+		328
	es used [		_	_	Боран	_ Amou		·						
-	HOLE r From 0	To <b>862</b>	Ma Cement	SEAL terial Siurry	From	To 68	1	ount r pounds icks	(12) WELL LOG:	Ground el	evetion ;	3040'		
			Cement		282		242 sa			Material		From	То	SWL
									See Attached Bor	ehole Lithology				
How was	•	ed: Mei	thod A	□B (2	()c	]D	] <b>E</b>							
Beckfill p	placed from		ft. to 27	5 ft. 2 ft.	<b>Material</b> Size of g	Bent gravel (	onite C	hips  /4-				ECE	IVE	D
(6) CA	SING/LI	NER:							REC	EIVED		ANI	2 20	10
	Diamete					Plastic	Welded	Threaded	IAN	7 2007	•		,, .,	
Casing:_	16 16in	62			X X		X				VATER	RESO	UNCES	DEP1
-	16 n	75	0 780 0862.5		<u>A</u>		<b>X</b>		SALEM	OURCES DEPT OREGON	S,	LEM, C	REGO	N
Liner:	16in	- 00	0002.5	.375										
- Final loc	ation of sh	ne(s)												
			S/SCREE	NG.		_				WATER DEVELOP	MENI	REC	EIV	ED
	Perforation		Method E							O. Box 1670		CED	0.19	0007
=	Screens	_	Type Sk		M	aterial ;	16L		Redm	ond, OR 9775	6 -	FEB	07	2007
From	To	Slot	Number	Diameter	Tele/	pipe ze	Casina	Liner			WA	ER RE	SOUR	ES DEP
525	625			16in		pe	X					SALE	, ORE	GON
<u>700</u> 780	750 860	<u>.100</u> .060		16in 16in		ipe ipe	X		Date started 6/7/2006	Com	pleted 1	2/14/20	06	
									(unbonded) Water W	lell Constructor Certi			r abando	nment
/8\ WF	II TES	TS: M	linimum (	estina ti	ime is	1 hou	<u> </u>		of this well is in complian	-				
X Pump		_	lailer	Air			Flowing	) Artesian	Materials used and information belief.	ustiou tahoued spoke si		•		
Yield g	gel/min	Dra	wdown	Drift s	stern at		Tim		Signed					
	2700		3		370		24 hr.						_	
									(bonded) Water Well   accept responsibility (	Constructor Certification to Construction Certification Ce		r abandor	rnent w	ork
		<u> </u>					_		performed on this well de	uring the construction de	tes repor	ted above	. All w	
	ature of W	_	-58 27 X Yes	Depth Artes By whom			he		performed during this time construction standards.					belief.
Did any	strata conf	ain wut	er not sultab	le for intend	led use?	· 🗆			$\mathcal{K}$	#R. 1	w	WC Numl	ber <u>138</u>	5
Salty Depth of		ty 🗀	Odor 🗆 (	Colored	Other				Robert Buck			rte <u>12/2</u> 4	<u>1/2006</u>	

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

### **DESC 57788**

# CITY OF REDMOND WELL #7 DRILLERS FROMATION LOG

Description		From	То	
3/4" Crushed Rock		0	1	
Broken Gray Lava		1	15	
Gray Basalt		15	31	
Red Cinders		31	34	
Broken Black/Red Rock		34	53	
Brown Rock		53	61	
Black Lava		61	77	
Brown Sandstone		77	84	
Brown Conglomerate		84	88	
Black Lava		88	107	
Brown Sandstone		107	121	
Redish & Black Lava		121	130	
Brown Sandstone		130	133	
Black Lava		133	144	
Gray Lava		144	158	
Reddish Brown Rock		158	159	
Brown Rock		159	172	
Brown Sandstone		172	176	
Red and Black Lava		176	181	
Redish & Brown Sandstone		181	191	
Black Lava		191	206	
Brown Sandstone		206	209	
Coarse Black Sand		209	221	
Black Lava		221	243	
Brown Sandstone		243	249	
Black Lava & with Brown Ash		249	273	
Hard Black Basalt		273	283	
Red Sandstone		283	306	
Brown Sandstone		306	325	
Light Brown Sandstone		325	335	
Dark Brown Sandstone	WB	335	391	330
Black Sandstone	WB	391	423	328
Fine Black Sand	WB	423	458	328
Brown Sandstone	WB	458	526	328
Broken Blue & Gray Basalt	WB	526	529	328
Blue & Gray Basalt	WB	529	537	328
Gray Basalt	WB	537	553	328
No Cuttings Semi Soft	WB	553	585	328
No Cuttings Harder	WB	565	580	328
Red & Black Basalt	WB	580	600	328
No Cuttings Broken & Hard	WB	600	610	328
Black Basalt	WB	610	613	328
Black Sandstone	WB	613	625	328
Brown Sandstone	WB	625	632	328
Reddish Brown Sandstone	WB	632	<b>64</b> 1	328
Multi Colored Coarse Sand	WB	641	658	
Main Colored Costae 28Ud	AAR	041	058	328

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### **DESC 57788**

Dark Brown Sandstone	WB	658	690	328
Brown Sandstone	WB	690	706	328
Blue & Gray Basalt	WB	706	711	328
Gray Basalt	WB	711	731	328
No Cuttings Soft	WB	731	734	328
No Cuttings Harder	WB	734	741	328
No Cuttings Soft	WB	741	745	328
No Cuttings Harder	WB	745	750	328
Broken Vesicular Basalt	WB	750	754	327
Black Sandstone	WB	754	770	327
Black & Brown Sandstone	WB	770	785	327
Vesicular Black Basalt	WB	785	790	327
Vesicular Red & Black Basalt	WB	790	800	327
Hard & Broken No Cuttings	WB	800	810	327
Brown Sandstone with Multi				327
Colored Sand Lenses	WB	810	818	327
Vesicular Red & Black Basalt	WB	818	826	327
Black Sandstone	WB	826	831	327
Black & Gray Basalt	WB	831	838	327
Red & Black Basait	WB	838	843	327
Vesicular Black Basalt	WB	843	847	327
Hard Black & Gray Basalt	WB	847	850	327
Very Hard Gray Basalt		850	G60	327

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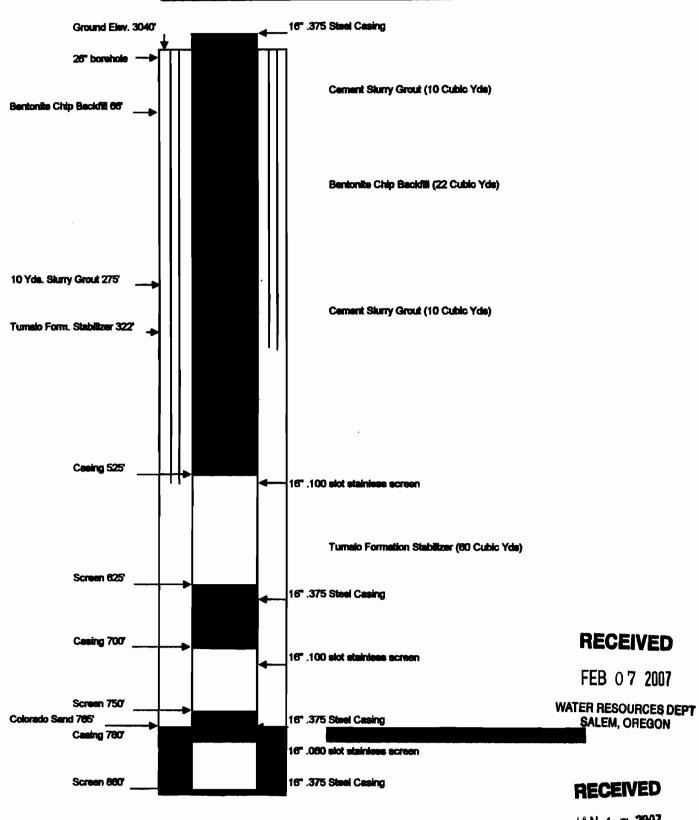
FEB 07 2007

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#### CITY OF REDMOND WELL #7 AS BUILT



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