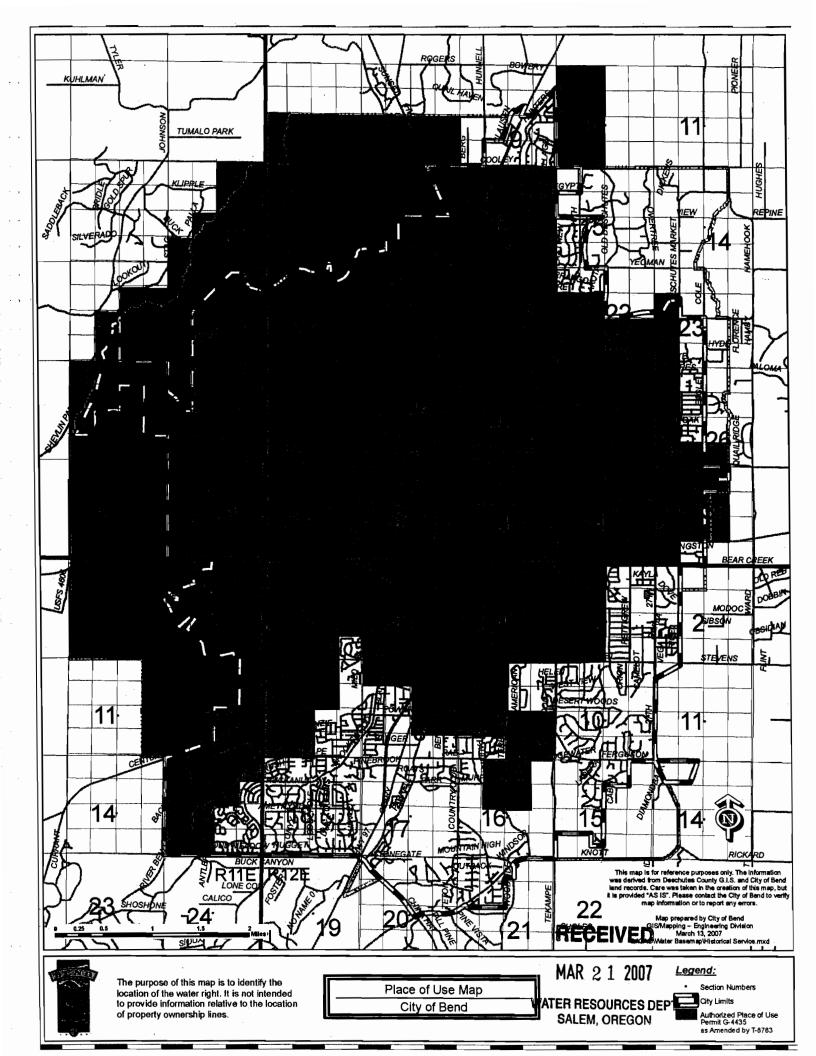
City Well#1 Lava Island #1 NOTICE TO WATER WELL CONTRACTOR DESC The original and first copy of this report are to be filed with the ATE OF OREGON STATE ENGINEER, SALEM, ORBIGN SAUG 28 1968 (Please type or print) of well completion STATE ENGINEER within 30 days from the date State Permit No. ..... G-4677 (11) LOCATION OF WELL: (1) OWNER ESCHUTES Driller's well number Name 7 T. 185 R. 11 E W & Section 3 Address Bearing and distance from section or subdivision corner (2) TYPE OF WORK (check): New Well Deepening [] Reconditioning Abandon 🔲 If abandonment, describe material and procedure in Item 12. TYPE OF WELL: (4) PROPOSED USE (check): (12) WELL LOG: Diameter of well below casing Driven 🗆 Domestic | Industrial | Municipal 40.5 ft. Depth of completed well Jetted 🔲 Depth drilled Irrigation | Test Well | Other Bored | Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, CASING INSTALLED: Threaded | Welded with at least one entry for each change of formation. Report each change 1 to 196 11 Gago 572 Diam. from .... in position of Static Water Level as drilling proceeds. Note drilling rates. 3/0 n. Gage .330 " Diam. from ... swi. MATERIAL ." Diam. from . .... ft. Gage TOP SOIL BOFF LAUA ASH **PERFORATIONS:** Perforated? Yes 🗆 No. <u>34</u> SOFT LAUR Type of perforator used 45 GREY LAUA Size of perforations in. by 64 BROKEN BROWN LAVA 1208 perforations from ... iol RED AND BROWN LAVA 64 perforations from ... 130 KO LAVA 06 perforations from .... 130 CIREY LAVA perforations from ... LAVA RED perforations from ..... BROWN LAVA MED HARD GREY BASK (7) SCREENS: Well screen installed? 

Yes No PROJEEN RED LAIS Manufacturer's Name . 228 BROWNAND RED LAVA Model No. 235 218 RED CINDERS ... Set from ... J-35 LAVA Diam. Slot size ..... Set from .... SCET BROWN LAUA (8) WATER LEVEL: Completed well. tatic level 168 ft. below land surface Date 7/24 an pressure lbs. per square inch Date (9) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? M Yes D No If yes, by whom? 57KASSER. 196 7 Completed ACG 3-Work started DEC gal./min. with 10 4st. drawdown after 30 hrs. Date well drilling machine moved off of well 430 75 400 12 Drilling Machine Operator's Certification: 70 This well was constructed under my direct supervision. Mate-Bailer test gal./min. with ft. drawdown after rials used and information reported above are true to my best knowledge and belief. knowledge and belief. Artesian flow g.p.m. Date Date Date Temperature of water 57 Was a chemical analysis made! □ Yes 🗡 No [Signed] L (10) CONSTRUCTION: Drilling Machine Operator's License No. .. Well seal—Material used Water Well Contractor's Certification: Depth of seal .... This well was drilled under my jurisdiction and this report is Diameter of well bore to bottom of seal ... true to the best of my knowledge and belief. Were any loose strata cemented off? 

Yes X No Depth STRASSER Was a drive shoe used? 😿 Yes 🗆 No Did any strata contain unusable water? 

Yes No Type of water? depth of strata Method of sealing strata off Was well gravel packed? Tes No Size of gravel: WATER RESOURCES DEPT'S License No. \_\_\_\_\_\_\_\_D Date ... Gravel placed from .... (USE ADSALGIA OREGONIF NECESSARY)



well#2 Lava I share #2 The original and first cope E C E I WATER WELL REPORT AUG 28 1968 STATE OF OREGON filed with the STATE ENGINEER, SALEM, OREGON STRICE (Please type or print) within 30 days from the bard of E. C. IN DELIM write above this line) State Permit No. ..... of well completion. SALLM ORLUON G-4677 (11) LOCATION OF WELL: (1) OWNER: County DESCHUTESDriller's well number Name SW 14 NIV 14 Section 27 T. 185 R. 110 Address Bearing and distance from section or subdivision corner (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): (12) WELL LOG: . Diameter of well below casing Rotary Domestic | Industrial | Municipal | Cable Depth drilled 300 ft. Depth of completed well Irrigation 🗆 Test Well 🔀 Other Bored [ Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, CASING INSTALLED: LLED: Threaded | Welded | 2 with at least one entry for each change of formation. Report each change ....." Diam. from ...... in position of Static Water Level as drilling proceeds. Note drilling rates. MATERIAL. 0 SANDY SAND AND BOULDERS PERFORATIONS: Perforated? | Yes Yo. SOFT SANDSTONE 32 Type of perforator used SOFT BLACK ROCK 40 Size of perforations in. by BLACK AND RED CINDERS 40 70 perforations from . BEACK BASALT KED AND BLACK ROCK 70 76 perforations from .... perforations from .... 84 BLACK BASALT ノクマ perforations from \_ RED AND BLACK ROCK 103 122 perforations from . 122 ED CINDERS KED AND BLACK ONDER 13.2 148 (7) SCREENS: Well screen installed? | Yes | No CINDERS AND BOULDER Manufacturer's Name \_ Model No. YELLOW THMICE Set from ... ..... Slot size ... REO AMO BLACK CINDER 177 203 .. Slot size ..... Bet from .... 228 GREY BASALT WITH SEAM! 203 GREY BASAUT 22.5 239 (8) WATER LEVEL: Completed well. 239 Static level RED CINDERS ft. below land surface Date 7/5 6 ROCK ian pressure lbs. per square inch Date Drawdown is amount water level is lowered below static level (9) WELL TESTS: Was a pump test made? 🗌 Yes 📈 No If yes, by whom? 1968 196 S Completed 76 gal./min. with ft. drawdown after hrs. 10 6 S Date well drilling machine moved off of well Drilling Machine Operator's Certification: This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. gal./min. with Bailer test ft. drawdown after hrs. g.p.m. Date ... Artesian flow [Signed] ... Temperature of water Was a chemical analysis made? 

Yes XNo (10) CONSTRUCTION: Drilling Machine Operator's License No. .. Well seal-Material used . Water Well Contractor's Certification: Depth of seal ..... Diameter of well bore to bottom of seal 12-20-This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Were any loose strata cemented off? | Yes | No Depth NAME ZUSTERSER

(USE ADDITIONAL SHEETS IT NECESSARY)

Address VED

[Signed]

Contractor's License No. \_\_\_\_O\_\_\_ Date

Was a drive shoe used? X Yes 🗆 No

Was well gravel packed? | Yes | No

Type of water?

Method of sealing strata off

Gravel placed from ...

Did any strata contain unusable water? To Yes No

depth of strata

Size of gravel:

## 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 ficition

## NOV 1 5 2001

54251

WELL ID # L52414 (START CARD) # 136883

(1) OWNER: Well Number: Bear Crk#2	(9) LOCATIO	N OF WELL by legal	description:	مادر طاع م
Name City of Bend	County	Deschutes 7S N or S. Range	_Lemmos to	W. of WM.
Address P.O. Box 431	Section 3	3 SE	1/4 SE	1/4
City Bend State OR Zip 97701	Tax lot 10	3 SE ) Lot Block	Subdivis	ion
(2) TYPE OF WORK:	OD 0770	s of Well (or nearest address		•
New Well Deepening Atteration (repair/recondition) Abandonmer				
(3) DRILL METHOD:	(10) STATIC	WATER LEVEL: ft. below land surface.	Dat	n 40/30/04
	Artesian pres	sure b. pe	or square inch. Dat	9
Other	(11) WATER	BEARING ZONES:		
(4) PROPOSED USE:	1 ' '	th water was first found 650	•	
Domestic X Community Industrial Imagetion	Doput at William			
[ ]Thermal		То	Estimated Flow	
(5) BORE HOLE CONSTRUCTION:	795		800-900 1000	621
Special Construction approval Yes XNo Depth of Completed Well 1100		977	1000	652 652
Explosives used Yes X No TypeAmount	1055	1100	5000	652
HOLE SEAL Amount	(12) WELL I	.OG:		
Diameter From To Material From To sacks or pounds 20in 0 780 Cement 745 780 66 sacks			d elevation	
15in 780 975 Cement 0 195 220 sacks		Material	From	To SWL
12in 975 1100	Brown Top	Soil & Broken Rock	0	7
		ray Basalt tone		110 112
	Broken Lav	3	112	140
How was seal placed: Method   A   B   X C   D   E	Tan Sandsi	one	1 140	162
Other Beckfill placed from 195 ft. to 745 ft. Material Bentonite	Hard Gray	Besalt lice	162 175	175 200
Gravel placed from ft. to ft. Size of gravel	Hard Gray	Basalt		
(6) CASING/LINER:	Red Cinder	<u> </u>	227	233
Diameter From To Gauge   Steel Plastic Welded Thread		ice & Sandstone		247
Casing: 16in +1.5 780 .375 X	TIGI V. CILLY	ray Broken Basalt	247	287 291
	Hard Gray	Basalt & Brown		
	Sandstone			360
Liner: 10in 765 1100 .250 🖺	Hard Gray	dstone Conglomerate Basalt	360 393	475
	Red Cinder	<b>3</b>	475	499
Final location of shoe(s)	Brown & G	ray Basalt some brok	<u>(en 499</u>	
(7) PERFORATIONS/SCREENS:	Conglomer	vn Sandstone	563	594
X Perforations Method Factory Saw	Hard Gray	& Brown Basait	594	650
Screens Type Material Stot Tele/pipe		dstone WB		
From To size Number Diameter size Casing Liner	Hard Gray Red Cinder		771 795	795 621 818 652
768 1100 3/16 13280 X		on next page		
	Date started 2	6/01	Completed 10/30/01	
	(unbonded) \	Water Well Constructor	Certification:	
		ne work I performed on the co		
(8) WELL TESTS: Minimum testing time is 1 hour		compliance with Oregon wate and Information reported above		
X Pump Bailer Air Flowing Artesia			200 200 10 11,7 2001 12	
Viold galfrida Demudana Dall stans at . The	Signed		WWC Numi	ber
Yield gal/min Drawdown Drill stem at Time	Signed		Date	
1400 9.5 720 24 hr.	(borded) We	ter Well Constructor Ce	etification:	
		nsibility for the construction,		ment work
	performed on the	is well during the construction	n dates reported above.	All work
Temperature of Water 50 Depth Artesian Flow found Wes a water analysis done?   X Yes    By whom City of Bend		ig this time is in compliance with the true to the true to the total to the true true true true true true true tru		
Did any strata contain water not suitable for intended use? Too little.			WWC Num	
Salty Muddy Odor Colored Other	Signed 1	Bet-Buck	200 11/7	(01
Depth of strate: RECEIV	Robe	rt Buckner		
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT		CONSTRUCTOR THE	RD COPY - CUSTO	MER

## STATE OF OREGON FER SUPPLY WELL REPORT as required by ORS 537.765) Instructions for completing this report are on the last page of this form

DESC 54251

WELL ID # 1.52414

(START CARD) # 136883 Page 2

(1) OWNER:			Bear Crk#2	(9) LOCATION OF W	ELL by legal des	cription:		
NameCity_of	Bend			Township 17S	utes Lat Vor S. Range 12	E E or	W. of W	/M.
Address P.O. Bo	X 431	State OR	7in 07704	Section 33 Tax lot 100 Lot	SE	1/4 SF	1.	14
		OLD OR		Tax lot 100 Lot	Block	Subdivi	ion	
(2) TYPE OF W	VORK:			Street Address of Well (			d., Be	nd
New Well	Deepening []]Al	teration (repair/recondition	n) []Abandonment	OR 97701				
(3) DRILL MET	HOD:			(10) STATIC WATER	R LEVEL; wiend surface.	Der	-	
Rotery Air	Rotary Mud	Cable	[]]Auger	Artesian pressure				
Other		d	-	(11) WATER BEARI				
(4) PROPOSE	D USE:		_	Depth at which water wa				
Domestic	Community	[_] industrial	irrigation	Dopor at winds water wa	THE TOTAL			
Thermal	Injection	Livestock	Other	From	То	Estimated Flow	Rate	SWL
(5) BORE HOL	E CONSTRUC	TION:	•		<del> </del>	<del> </del>		
Special Construction	n approval Yes	No Depth of Cor	npleted Wellft.					
Explosives used	Yes No Typ	•An	nount				_	
HOLE Diameter From	To Ma	SEAL terial From To	Amount sacks or pounds	(12) WELL LOG:				
					Ground elev	ation		**** *** *****
		·			/laterial	From	То	SWL
				Hard Gray & Brown		818	830	
				Sand & Gravel & Ci Brown Broken Base		830 845	845 950	
<b>.</b> [				Brown & Gray Base	it with Red			
How was seal place	d: Method LA	B C D	[,  <b>E</b>	Cinders WB			977	
Backfill placed from	ft. to	ft. Material		Hard Gray Basalt B Red Cinders & Blad	roken WH	977 1055	1055	652
Gravel placed from	ft. to	ft. Size of grave		Sandstone WB		1000	1072	652
(6) CASING/LI				Broken Gray Basal	WB.	1072	1089	652
. • •	From To	Gauge   Steel Plasti	c Welded Threaded	Basalt, Sant & Gra	vel Cinders WB	1089	1100	652
Casing:	1				***			ļ
				NOV 1	5 2001			
	<del></del>							.j
Liner:				WATEL	SEGON			<u> </u>
							^EI	VER
Final location of sho	He(6)			WESTERN V	VATER DEVELOP	MENT	CEI	VED
(7) PERFORAT	TIONS/SCREE	NS:	•		). Box 1670			
Perforations		Materia		REDMO		- MAF	$\frac{2}{1}$	2007
Screens	Туре		ł	- INCOMO				
From To	Slot size Number	Tele/pipe Diameter size	Casing Liner			WATER A	E800	HCES D
			<u> </u>				FIVI, UE	TEGON
1 1				Date started 2/6/01		Heted 10/30/01		
				(unbonded) Water We				
			L	I certify that the work I pe			abando	nment
(8) WELL TES	TS: Minimum	testing time is 1 h	our	of this well is in compliance				
Pump	Bailer	∏Air	[]]Flowing Artesian	Materials used and informa belief.	mon reported 800V6 8/6	n ne zo my pest ki	rownedge	end
1. 4 <b>IF</b>	,	1				WWC Num	oer	
Yleid gal/min	Drawdown	Drill stem at	Time	Signed				
				(bonded) Water Well (				
			The second of th	I accept responsibility for performed on this well during				
Temperature of Wa	iter	Depth Artesian Flow four	d	performed during this time	•	· · · · · ·		
Was a water analys	ais done? []]Yes	By whom		construction standards. Ti	his report is true to the b			
		le for intended use? Colored []Other	Too little	Signed		WWC Num		
Depth of strata:	ay (,,( <del>OUU</del> F [,,])			Robert Buckr	1er	Jam 11//	N.L	<b></b>
	.,							

## Pump Test Information Bear Creek #2

Date: 10/29/01

TIME	DEPTH (FT)	FLOW (GPM)	COMMENTS
9:30 AM	652	0	Bear Creek Well #1, has been running for the past
10:00 AM	652	0	3 days.
10:30 AM	652	0	

10:30 AM 10:30:30 10:31:00 10:31:30 10:32:00 10:32:30 10:33:30 10:33:30 10:34:00 10:34:30 10:35:00 10:35:30 10:36:00 10:36:30 10:37:00 10:37:30 10:38:00	652 660 660 660.5 660.5 660.5 660.5 661 661 661 661 661 661	1400 i	Lineshaft turbine test pump set @720ft, water leve indicator is electric line inside of 1" pvc. Flow is registered through a 6" McCrometer registering in gallons per minute and totalizing in cubic feet.
10:31:00 10:31:30 10:32:00 10:32:30 10:33:00 10:33:30 10:34:00 10:34:30 10:35:00 10:35:30 10:36:30 10:37:00 10:37:30	660 660.5 660.5 660.5 661 661 661 661 661 661	1450 1425 1400+ 1400+ 1400+ 1400+ 1400+ 1400+ 1400+	
10:31:30 10:32:00 10:32:30 10:33:00 10:33:30 10:34:00 10:34:30 10:35:00 10:35:30 10:36:30 10:37:00 10:37:30	660.5 660.5 660.5 660.5 661 661 661 661 661 661	1450 1425 1400+ 1400+ 1400+ 1400+ 1400+ 1400+ 1400+	
10:32:00 10:32:30 10:33:00 10:33:30 10:34:00 10:34:30 10:35:00 10:35:30 10:36:30 10:37:00 10:37:30	660.5 660.5 660.5 661 661 661 661 661 661	1400+ 1400+ 1400+ 1400+ 1400+ 1400+ 1400+	
10:32:30 10:33:00 10:33:30 10:34:00 10:34:30 10:35:00 10:35:30 10:36:30 10:37:00 10:37:30	660.5 660.5 661 661 661 661 661 661	1400+ 1400+ 1400+ 1400+ 1400+ 1400+	
10:33:30 10:34:00 10:34:30 10:35:00 10:35:30 10:36:00 10:36:30 10:37:00 10:37:30	660.5 661 661 661 661 661 661	1400+ 1400+ 1400+ 1400+ 1400+	
10:34:00 10:34:30 10:35:00 10:35:30 10:36:00 10:36:30 10:37:00 10:37:30	661 661 661 661 661 661 661	1400+ 1400+ 1400+ 1400+ 1400+	
10:34:30 10:35:00 10:35:30 10:36:00 10:36:30 10:37:00 10:37:30	661 661 661 661 661 661	1400+ 1400+ 1400+ 1400+	
10:35:00 10:35:30 10:36:00 10:36:30 10:37:00 10:37:30	661 661 661 661 661	1400+ 1400+ 1400+	
10:35:30 10:36:00 10:36:30 10:37:00 10:37:30	661 661 661	1400+ 1400+	
10:36:00 10:36:30 10:37:00 10:37:30	661 661 661	1400+	
10:36:30 10:37:00 10:37:30	661 661		
10:37:00 10:37:30	661	1400+	<u> </u>
10:37:30		14001	The section of the section of
		1400+	A PACINED
10.39.00	661	1400+	
10.30.00	661	1400+	NOV 1 5 2001
10:38:30	661	1400+	Ran.
10:39:00	661	1400+	SALEM OBSCO
10:39:30	661	1400+	100
10:40:00	661	1400+	
10:40:30	661	1400+	
10:41:00	661	1400+	
10:41:30	661	1400+	
10:42:00	661	1400+	·
10:42:30	661	1400+	
10:43:00	661	1400+	
10:43:30	661	1400+	
10:44:00	661	1400+	
10:44:30	661	1400+	
10:45:00	661	1400+	
11:00:00	661.5	1400+	
11:15:00	661.5	1400+	
11:30:00	661.5	1400+	RECEIVE
11:45:00	661.5	1400+	NECEIVE
12:00:00	661.5	1400+	
12:15:00	661.5	1400+	MAR 2 1 20
12:30:00 12:45:00	661.5 661.5	1400+ 1400+	WATER RESOURCE:

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

DESC 53735

# L43058

(START CARD) # 136871

County   Descritutes   Latitude   Longitude   Longit								<del></del>
Note   Company   Approximate   Company   Approximate	(1) OWNER:		Well Number	Outback #3	(9) LOCATION OF W	ELL by legal dea		<b>La</b>
Source   Property   Community   Inclusion   Community   Community   Inclusion   Community   Communit			ery engage of grant page and community of the stagether. The page of the control		Township 178 N	or S. Range 11		
Track 202822 LO Block Subdiston  Vin.   WITH   Deposing Charaction (repair/moordston)   Debot Completed Verification   Debot Styliner Rd.    Brown   Postery Mar   Robery Mar		ox 432	Ship OD	7in 07704	Section 34	SW	1/4 SE	1/4
Remark   Despecting   Alteration (repair/incondition)   Abandomment   Alternative			San DK	ZIP <u>9//U1</u>	Tex lot 8202R2 Lot	Block	Subdivision	
STATE WATER LEVEL:   Approach   Property Max   Receive   Receive			heretion (reneistrennaditi	on) ["]&bendooment		or nearest address) 1	5900 Skyliner Rd.,	
Martin   Protect   Martin   Detail   Martin   Detail			eration (repair/reconoiu	ON (_ADEROOFFICER	(10) STATIC WATER	LEVEL:		
	X Rotary Air	_	X Cable	☐ Auger	477 ft. belov Artesian pressure	v land surface. lb. per sq	Date 3/1 uare inch. Date	5/01
Dementic     Community     Industrial     Deptitor   Other   Other	Other					- A		
Special Construction approved   Ves   Rivo   Depth of Completed West 850   1.	(4) PROPOSE	D USE:			Depth at which water we	s first found 488		
488	Domestic							
S BORE HOLE CONSTRUCTION:   Special Constructor approved   Versit   No.   No	Thermal	Injection	Livestock	Other				
Booksia Construction sporous    Yes    Kill No    Type    Amount    Amount	(5) BORE HO	LE CONSTRUC	TION:					
Material   From   To   Material   From   To   Sake or pounds   Sake   Safe   At   Sacks   Safe	Special Construct	ion approval Yes	X No Depth of Co	mpleted Well 850 ft.				
Comparison   Com		Yes X No Typ	e Ar	mount				
11.5.   795   850	Diameter From 20in 0	667 Cement	terial From To grout 532 5	sacks or pounds 57 44 sacks	(12) WELL LOG:	RECE	IVED	
Broken Brown Rubble   1   7   7   7   7   7   7   7   7   7			Grout 0 1	58   176 sacks	M	aterial	From To	SWL
Red Cinder Consistency   19	11.6 1.85	890			Brown Powder Top	Soil MAR 2	8 2001 9	
Content   Cont					Red Cinder Conglet	DIG DECO	110000 7 4	
Content   Cont					Broken Grav Basalt	& Large ALEM	OREGONI EP	7
Beodel from   532   ft   to   168   ft   Material Bentonite   Graver placed from   ft   to   ft   ft   ft   ft   ft   ft		ced: Method []A	□B XIC □D	E	Cinders		2	2
Circulation   R. to   R. Size of gravel		- TOO	o 6 Motorial D.		Smooth Hard Gray	3eselt		5
Casing/Liner:   Discription   From   To   Gauge   Steel   Plaetic   Weided   Threeded   Casing:   16   17   2   667   375   X   X   X   X   X   X   X   X   X						Drilling) Lost		
Diameter   From   To   Gauge   Steel   Plastic   Welded   Threeded   Casing   16in   +2   667   375   X				· · · · · · · · · · · · · · · · · · ·				
Casing: 16in +2 657 .375	(6) CASING/L					g)		
Cinders & Brown Ash Caving 170 202   Cinders & Brown Ash Caving 170 202   Cinders & Brown Ash Caving 170 202   Cinders & Brown Ash Caving 202 237   Cinders & Bray Bealt 202 22 237   Cinders & Bray Bealt 202 22 237   Cinders Ash Caving 202 237   Cinders Ash Caving 202 232 24   Cinders Ash With Black & Gray 392 24   Broken Basalt 2020 2405 2405 2405 2405 2405 2405 2405		, ,			<b>Brown Conformerate</b>	& Boulders	113	
Liner: 12 in 652 795 .376	Casing:	1 72 00/	-3/3 P					
Uner: 12in 652 795 375 X X X X X X X X X X X X X X X X X X X								
Continued on next page   Continued on next p								
Final location of shoe(e)					Gray Sandstone			
Continued on next page   Completed 3/15/01   Completed Size   Continued on next page   Continu			365 L			tone of tufted		
X  Perforations		• • • • • • • • • • • • • • • • • • • •				d denvole		
Soreens   Method Factory Saw   Type   Methods   Type   Methods   Type   Methods   Type   Methods   Type	(7) PERFORA							
Broken Basalt   Gray & Brown Lava   A05		ne Method E	actory Saw		Red Cinder ash witt	Black & Gray		
From To size Number Dismeter size Casing Uner 587 687 3/16 4800 15in pipe X Continued on next page Continued on next page Date started 10/3/00 Completed 3/15/D1  785 850 3/16 6720 12in pipe X Completed 3/15/D1  (B) WELL TESTS: Minimum testing time is 1 hour X Pump Bailer Air Flowing Artesian Yield gal/min Drawdown Drill stem at Time Signed Date WWC Number Date  1400 4.25 558 24 hr  Signed Water Well Constructor Certification: I accept responsibility for the construction, siteration, or abandonment work performed on this well during the construction dates reported above. All work performed on this well during the construction dates reported above. All work performed on this well during the construction dates reported above. All work performed on this well during the construction dates reported above. All work performed during that time is in compliance with Oregon water supply well construction dates reported above. All work performed on this well during the construction dates reported above. All work performed during that time is in compliance with Oregon water supply well construction dates reported above. All work performed during that time is in compliance with Oregon water supply well construction dates reported above. All work performed during that time is in compliance with Oregon water supply well construction dates reported above. All work performed during that time is in compliance with Oregon water supply well construction elegated. This report is true to the best of my knowledge and belief.  Signed WWC Number 1385  Signed WWC Number 1385  Date 3/20/01	Screens	Туре		<u> </u>	Broken Basait		40	
Dete started 10/3/00   Completed 3/15/01		size Number	Dismeter size		Gray & Brown Lava		405   42	8.
Temperature of Water 52   Depth Artesian Flow found Water well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work 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.    WWC Number   Date				· · · · · · · · · · · · · · · · · · ·	Continued on next p	age		
(8) WELL TESTS: Minimum testing time is 1 hour					Date started 10/3/00	Com	pleted 3/15/01	
(8) WELL TESTS: Minimum teating time is 1 hour    Pump					(unbonded) Water Well	Constructor Cert	ification:	
Materials used and Information reported above are true to my best knowledge and belief.   Materials used and Information reported above are true to my best knowledge and belief.   Materials used and Information reported above are true to my best knowledge and belief.   Materials used and Information reported above are true to my best knowledge and belief.   Signed				. 🗆 🗆				
Yeld gal/min   Drawdown   Drill stem at   Time   Signed   Date	(8) WELL TE	STS: Minimum 1	esting time is 1 h	our				
Yield gal/min Drawdown Drill stem at Time  1400 4.25 558 24 hr  (bonded) Water Well Constructor Certification: I accept responsibility for the construction, siteration, or shandonment 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 etaphards. This report is true to the best of my knowledge and belief.    Signed     WWC Number   Date   Date						non reported above at	re true to my best knowle	ige and
1400   4.25   558   24 hr	(EX) a minb		C3/4:				WWC Number	
(bonded) Water Well Constructor Certification:  I accept responsibility for the construction, siteration, or sbandonment 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 etaphands. This report is true to the best of my knowledge and belief.    Selity   Muddy   Odor   Colored   Other     Depth of strata:   Robert Buckner	Yield gal/min	·			Signed		Date	
I accept responsibility for the construction, siteration, or abandonment work performed on this well during the construction dates reported above. All 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.    Beity   Muddy   Odor   Colored   Other	1400	4.25	558	24 br	(handad) 144-4114-4-4		· · · · · · · · · · · · · · · · · · ·	
performed on this well during the construction dates reported above. All work  Temperature of Water 52								work
Temperature of Water 52 Depth Artesian Flow found performed during this time is in compliance with Oregon water supply well construction etaphdards. This report is true to the best of my knowledge and belief.  Did any strata contain water not suitable for intended use? Too little  Signed Signed Signed Date 3/20/01  Robert Buckner								
Did any strata contain water not suitable for intended use?				nd				
Salty Muddy Odor Colored Other Signed / Signed Date 3/20/01  Depth of strata: Robert Buckner	Was a water anal	yels done? XYes	By whom Coffey		construction etandards. Th	is report is true to the		
Depth of strata: Robert Buckner		ntain water not sultab	e for intended use?	[] Too little	Signed Tracks. I	- Sur k.		85
		[] Cuoi [] (		Proposition and the state of th		er -	- Jan 3/20/01	
		DOT COPY 14/47	ED DEDOLIDOES S	EDADTAEAT OF			OOW CHOTOLES	

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11:30:00	661.5	1400+	
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1:30:00	661.5	1400+	
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### **RECOVERY DATA**

			INCOVERY DATA
RECEIVED	0	653	10:30:00
	0	653	10:31:00
MAD 0.1 2007	0	652	10:32:00
MAR 2 1 2001	0	652	10:33:00
WATER RECOURCES DEDT	ol	652	10:34:00
SALEM OREGON	0	652	10:35:00

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ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT

53735 DESC

75LL 1D#1	<b>.43058</b>
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ROUPE	PLY WELL REP	ORT	•			T CARD) # 136	274	
metructions for c		ort are on the last pag	e of this form		<del> </del>	Pa	ge 2	
(1) OWNER: Name City of Address P.O. B City Bend	Bend ox 432		7: Outback #3	Township 17S Section 34 Tex lot 6202R2 L	Nors. Range 11 SW ot Block	E E or	ongitude W. of W 1/ slon	M. /4
(2) TYPE OF V	WORK:			Street Address of We	il (or nearest address) 1	5900 Skyliner	Rd.,	
New Weli	Deepening []A	teration (repair/recond	tion) []Abandonment	Bend, OR	T. P.P.			
(3) DRILL MET  Rotary Air Other	THOD: Rotary Mud	Cable		(10) STATIC WATE ft. be Artesian pressure	low land surface.  [b. per squ	Da uare inch. Da		
(4) PROPOSE	D USE:		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(11) WATER BEAR Depth at which water				
Domestic Thermal	Community Injection	Industrial Livestock	☐ Irrigation	From	То	Estimated Flow	Rate	SWL
	LE CONSTRUC		L101101			ESWITTEN TOT		OVYL
• •	ion approval Yes		Completed Well 1t.					
	∐Yes □No Typ	8EAL	Amount  Amount  Fo sacks or pounds	(12) WELL LOG:	Ground ele	vation		
					Material	From	То	SWL
				Red & Black Cind Circulation	ers Lost	428	445	
				Dark Gray Basalt		445	450	
How was seal place	ed: Method []A	□B □C □D	LIE	Dark Gray Basalt Red & Black Cind		450 469	469	
Other		ft. Material		Circulation	W. V.		471	
Backfill placed from Gravel placed from		ft. Meterial ft. Size of gra	vel	Tan Pumice Broken Gray Bass	it Water Bearing	471 488	488 502	477
(6) CASING/L	INER:			Red & Black Cind	ers WB and caving			74.
• •		Gauge   Steel Play	tic Welded Threaded	poured 18 yards of in this zone.	f cement grout		524	477
Casing:				Tan Sandstone		524	530	477
				Red & Black Cong Brown & Gray Co	nglomerate	530 550	550 570	
Liner:				Tan Sandstone so		570		
				cinders WB Brown & Red Con	glomerate WB	600	600 620	477
Final location of st				Red & Brown Cine	ders WB	620	636	477
• •	TIONS/SCREE!	NS:		Hard Gray Basalt Red & Black Cind	ers some gray	636 651	651	477
Perforation Screens	ns Method Type	Mate	rial	basalt WB Hard Fractured G		660	660 671	
Canan Ta	Slot	Tele/pip	Casina Alian	Red & Gray Basal		671	689	477
From To	size Number	Diameter size	Casing Liner	Hard Gray Basalt Continued on nex	t pace	689	709	477
			_	Date started 10/3/00		pleted 3/15/01		±
				(unbonded) Water W	ell Constructor Certi	fication:		
				I certify that the week in of this well is in deligible.	constru	ction, alteration, o	r abando tion sten	onment Idards
• •		esting time is 1 i		Materials used and infor	nation reported above an			
Yleki gal/min	☐ Baller  Drawdown	∏Air Drill stem at	[]]Flowing Artesian	Signed	2 8 2001	WWC Numi	er	
				WATER	SOURCES DEPT			
				I accept responsibility (	Constructor Certific for the construction, elter uring the construction date	ration, or abandor		
	/ster yais done? Yes	Depth Ariesian Flow to By whom a for intended use?	Too little	performed during this tin	he is in compliance with (	Dregon water supp	oly well dge and	belief.
Salty Mud	dy []Odor []C			Signed	v	Date 3/20/	01	
Depth of strata:	,			Robert Buck	rner	,		

SECOND COPY - CONSTRUCTOR

THIRD COPY - CUSTOMER RECEIVED

MAR 21 2007

.1E OF OREGON

\_≺ SUPPLY WELL REPORT
... required by ORS 537.785)
structions for completing this report are on the last page of this form

	ÆLL.	ID	#	L43058
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(START CARD) # 136871

(1) OWNER: Well Number: Outback #3 Name City of Bend	(9) LOCATION OF WELL by legal description:  County Deschutes Latitude Longitude  Township 178 Nor S. Range 11E For W. of WM.
Address P.O. Box 432.  City Bend State OR Zip 97701	Section 34 SW 1/4 SE 1/4
	Tax lot <u>6202R2</u> Lot <u>Block</u> Subdivision Street Address of Well (or nearest address) <u>15900 Skyliner Rd.</u>
(2) TYPE OF WORK:  New Well Deepening Alteration (repair/recondition) Abendonn	Rend OP
(3) DRILL METHOD:	(10) STATIC WATER LEVEL:
(3) DRILL METHOD.  □ Rotary Air □ Rotary Mud □ Cable □ Auger	ft. below land surface. Date  Artesian pressure lb. per square inch. Date
Other	(11) WATER BEARING ZONES:
(4) PROPOSED USE:	Depth at which water was first found
Domestic Community Industrial Irrigation	From To Estimated Flow Rate SWL
Thermal Injection Livestock Other	From To Estimated Flow Rate SWL
(5) BORE HOLE CONSTRUCTION: Special Construction approvel Type Tho Depth of Completed Well	n
Special Construction approvalNoDepth of Completed Well Explosives usedYesNoAmount	
HOLE SEAL Amount Diameter From To Material From To eacks or pour	1/42\WELLIOG:
Diameter From 10 material 110m 10 access of poor	Ground elevation
	Material From To SWL
**************************************	Red Cinder & Gray Basalt WB 709 714 477 Hard Gray Fractured Basalt WB 714 731 477
	Red Cinders & Gray Baselt WB 731 748 477
How was seal placed: Method	Hard Gray Fractured Basalt 748 774 477
	Red Basalt & Gray Hard WB 774 797 477 Fractured Hard Gray Basalt WB 797 836 477
Backfill placed from ft. to ft. Meterial	Red Cinders & Brown Ash WB 836 850 477
Gravel placed fromft. toft. Size of gravel	
(6) CASING/LINER:	The second secon
	neded
Final location of shoe(s)	
	Western Water Development
(7) PERFORATIONS/SCREENS:	P.O. Box 1670
Perforations Method Screens Type Material	Redmond, OR 97756
Slot Tele/pipe	NEGMONG, ON 7770
	ner
	Polo stories 4.6.000
	Dete started 10/3/00 Completed 3/15/01
	(unbonded) Water Well Constructor Certification:    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.
(8) WELL TESTS: Minimum testing time is 1 hour  []Pump	Materials used and information reported above are true to my best knowledge and sian belief.
Pump Baller Air Flowing Artes	Stan Delier. WWC Number
Yield gal/min Drawdown Drill stem at Time	Signed Date
	REALITY
	(bonded) War Gold by Dir Certification:
	i accept responsibility for the construction, alteration, or abandonment work
Temperature of Water Depth Artesian Flow found	performed on this yeal during the construction dates reported above. All work performed during the strictle performance during the strictle performed during the strictle performance during the strictle performed during the strictle performance during the strictle performanc
Was a water analysis done? []] Yes By whom	construction standards. This report is true to the best of my knowledge and belief.  WALER RESOURCES DEPT. WWC Number 1385
Did any strata contain water not suitable for intended use?Too littleToo littleToo littleToo littleToo little	Signed SALEM, OREGON Date 3/20/01
Depth of strata:	Robert Buckner
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT	
Control of the second of the s	SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER RECEIVED

MAR 2 1 2007

## STATE OF OREGON WATER SUPPLY WELL REPORT

Name City of Bend Address P.O. Box 431

(1) OWNER:

Bend

Same and the same of DESC 54252 NOV 1

Well Number: Outback#4

State OR Zip 97701

WELL ID # L52412
(OTABT GARD) # 4000mm

(as required by ORS 537.765) instructions for completing this report are on the last page of this form

County Deschute Township 17S Nor Section 34 Tax lot 6202R2 Lot Street Address of Well (or n	LL by legal does less. Range 1 S. Range 1 SW Block rearest address)	escription: atitude 1E E 1/4 SE Subo	or ivis	ongitude W. of W! 1/4 sion	<b>И</b> . <b>I</b>
Bend, OR 97701  10) STATIC WATER L  478 ft. below is Artesian pressure	EVEL; and surface.		_	6 5/2/0	1
11) WATER BEARING		7 - 7 - 7 - 7			
Depth at which water was fi	ret found 519				
From		Estimated F	ow	Rate	SWL
519	612	800-900	<u> </u>		478
612	768	2000-			478
774	ogų	5000	٠.		478
12) WELL LOG:					
	Ground e				
Mate				To	SWL
Brown Powder Soil Broken Brown Rubbie			9	3	
Red Cinders & Broker	s n Reself		3 7	17 19	
Smooth Hard Gray Ba	asalt	1 1	9	125	
Brown Tufted Ash		12	5	172	
Pumice & Tan Sandst	one	17	2	285	
Gray Sandstone Brown Sandstone or	Teffod Ach	30		306 358	
Cemented Gravels	I Ulter Mail	35		431	
Red Cinders & Broke	n Basan	43	1	438	
Hard Gray Basalt son	ne broken	43	8	449	
Hard Gray Basalt Tan Pumice		1.44	8	468	
lan Pumice Hard Grav Resalt		40	Ö.	510	
Hard Gray Basalt Red Cinders & Broke	n Basalt WB	51	9	538	478
Brown Conglomerate	WB	53	8	581	
Tan & Gray Sandston	re WB	58			471
Loose Cinders WB Hard Gray Basalt		61			
Red & Black Cinders	& Slab Lava	63 64	_	646	47
WB				659	478
Hard Gray Basalt		65		735	47
Red Cinders WB	^^		5	768	47
Continued on next pa  Date started 12/5/01	•			·	1
		mpleted <u>5/2/01</u>			
(unbonded) Water Well ( I certify that the work I perfor of this well is in compliance with Materials used and information	rmed on the cons th Oregon water s	ruction, alteration upply well constru	ıcti	on standa	ırds.
belief.					
DONOI.		WWC N			

(2) TYPE OF WORK: X New Well Deepening Alteration (repair/recondition) Abandonment (3) DRILL METHOD: X Cable Rotery Mud Auger X Rotary Air [] Other (4) PROPOSED USE: Domestic X Community Industrial []] Irrigation [] Injection Livestock Other \_\_ Thermal (5) BORE HOLE CONSTRUCTION: Depth of Completed Well 850 Special Construction approval TYes XNo Explosives used Type X No Type Amount HOLE Material Diameter From From To sacks or pounds 20in 570 66 sacks 0 672 Cement 534 15in 672 790 Cement 0 | 205 | 220 sacks 790 850 **12in** \_\_\_ How was seel placed: Method: [ A ] B XC Material Bentonite Backfill placed from 205 ft. to 534 ft. Gravel placed from (6) CASING/LINER: To Gauge Steel Plastic Welded Threaded 672 16In .375  $\bar{\Box}$ [...] X X 12in 658 798 10in 788 848 Final location of shoe(s) (7) PERFORATIONS/SCREENS: Method Factory Saw X Perforations Material Screens Diameter Number Line 3/16 4800 **16in** 672 pipe 798 3/16 6720 <u> 12in</u> pipe 10in X 2600 848 3/16 pipe 788 (8) WELL TESTS: Minimum testing time is 1 hour Air Flowing Artesian Bailer X Pump Drill stem at Yield gal/min Drawdown Time performed on this well during the construction dates reported above. All work Depth Artesian Flow found performed during this time is in compliance with Oregon water supply well Temperature of Water 51 Was a water analysis done? X Yes By whom City of Bend construction spandards. This report is true to the best of my knowledge and belief. Did any strata contain water not suitable for intended use? Too little WWC Number 1385 Safty Muddy Odor Colored Other Robert Buckner ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

MAR 21 2007

DESC 54252

## STATE OF OREGON (ER SUPPLY WELL REPORT required by ORS 537.765)

structions for compl	eting this report are on the last page of	this form
(1) OWNER:	Well Number:	Outback#4

WELL ID #	L52412
-----------	--------

(START CARD) # 136877 Page 2

) OWNER: ame <u>City of Bend</u> dress P.O. Box 431	inger en sammen en s	Outback#4	(9) LOCATION OF WELL by legal description County Deschutes Lattude Township 17S Nor S. Range 11E	Longitude E or W. of WM.
Bend	State QR	Zip 97701	Section 34 SW 1/4 ST Tax lot 6202R2 Lot Block	Subdivision
TYPE OF WORK:			Street Address of Well (or nearest address) 15900 S	kyliner Rd.
ew Well Deepening	Alteration (repair/recondition	n) []Abandonment	Bend, OR 97701	Appendid to a secundar construction of the second section of the second section of the section o
DRILL METHOD:			(10) STATIC WATER LEVEL: ft. below land surface.	Date
Rotary Air []Rotary Muc	t []]Cable	[]Auger	Artesian pressure tb. per square inch	. Date
Other			(11) WATER BEARING ZONES:	
PROPOSED USE:			Depth at which water was first found	and the second section of the second section is
Domestic Community		Irrigation	From To Estin	nated Flow Rate   SWL
Thermal Injection	Livestock	Other	rom	MAN TOWN
) BORE HOLE CONSTR				
plosives used [[Yes []]No	-	mpleted Well ft. nount		
HOLE	SEAL	Amount	(12) WELL LOG:	
ameter From To	Material From To	sacks or pounds	Ground elevation	
			Material	From To SWL
	•		Hard Gray Basalt	768 774 478
			Red Broken Basalt WB Hard Gray Basalt	774 781 478 781 836 478
			Red & Black Cinders & Broken	836
ow was seel placed: Method	A B C D	<u> </u>	Basalt WB	850 478
Other	ft. Material			
ravel placed from ft. to	ft. Size of grave			
6) CASING/LINER:			II HEGENTAL	
Diameter From To		ic Welded Threaded		
esing:			NOV -> 2001	
		d d	T. 10.	
iner:			The state of the s	RECEIVED
inel location of shoe(s)				
7) PERFORATIONS/SCF	REENS:		WESTERN WATER DEVELOPMENT	MAR 2 1 200
Perforations Meth	od		P.O. Box 1670	
	Materi	el	Redmond, OR 97756	VATER RESOURCES SALEM, OREGO
From To size Num	Tele/pipe ber Diameter size	Casing Liner		SALEM, VICEGO
			Date started 12/5/01 Completed	5/2/01
			(unbonded) Water Well Constructor Certification	
		<u>. LJ (J</u>	I certify that the work I performed on the construction, a of this well is in compliance with Oregon water supply well	•
8) WELL TESTS: Minim			Materials used and information reported above are true to	
Pump [ Bailer	[]Air	Flowing Artesian	belief.	VVVC Number
Yield gal/min Drawdown	Drill stem at	. Time		ate
			(bonded) Water Well Constructor Certification	
			I accept responsibility for the construction, alteration, of performed on this well during the construction dates report	
emperature of Water	Depth Artesian Flow for	nd	performed during this time is in compliance with Oregon v	vater supply well
Vas a water analysis done? []] Did any strata contain water not e		Too little	construction standards. This report is true to the best of	my knowledge and belief. WWC Number 1385
Did any strata contain water not s 	Colored Other	F") i ee idae		Date 11/7/01
Depth of strata:			Robert Buckner	

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by OR\$ 537.765)
Instructions for completing this report are of

WELL ID # 152412

(START CARD) # 150755

(1) OWNER:	F BEND	. Well Number	Outback#4	4	(9) LOCATION OF V	nutes	Latitude L	ongitude	
Address P.O. Bo			T		Township 17S . Section 34	NOTS. KANGS	11E E or	W. of W	
City Bend	·	State OR	_ <sup>Zip</sup>		Tax lot 6202R2 Lo	t Block	Subdivis	sion	
(2) TYPE OF W	_				Street Address of Well Bend, OR 9770		15900 Skyliner	· Ave	
New Well		eration (repair/reconditi	on) Abend	donment	(10) STATIC WATE				
(3) DRILL MET	HOD:					rk LEVEL; w land surface.	De	te <u>5/31</u>	/03
X Rotary Air Other	Rotary Mud	Cable	Auger		Artesian pressure	lb. per	square Inch. Da	te	
					(11) WATER BEAR	NG ZONES:			
(4) PROPOSE!	X Community	☐ Industrial	☐ Irrigation		Depth at which water w	as first found			
Thermal		Livestock	Other		From	То	Estimated Flow	Rate	SWL
(5) BORE HOL	E CONSTRUC	TION:		. `	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				L
• •	n approval []Yes		ompleted Well (	845 ft.					
•	Yes X No Type	,A	mount						
HOLE Nameter From	To Mat Not Dist	1	Amor o sacks or p		(12) WELL LOG:	Ground	elevation		
<u> </u>						Material	From	То	SWL
					Well Video prior to approx. 1/3 of perfe				
					Bacteria was grow	ing. We used a	wire brush and	di	
tow was seal place	nd: Method LA		 □E	•	injected approx. 25 Chlorine was mixe				
Cother Not Dis	sturbed				water injection pur	np along with 9	00 cfm of air to		-
lacidiii placed from Gravel placed from		ft. Material ft. Size of grav	<b>a</b> l		achieve thorough	dispersion in th	e perforated		ļ
B) CASING/LI		ic State of grav			zone. Simultaneou scale and assist in	s prusning was unplugging of	perforations.	•	<u> </u>
Diameter Diameter Diameter Diameter Diameter		Gauge Steel Plas	tic Welded 1	Threaded			REC	EIV	ED
7) PERFORA	TIONS/SCREE	VS-	\		Western V	VATER DEVELO	DENT JUN	-4	2003
Perforations		10.							
Screens	Туре	Mater	ial		REDMO	nd, OR 977	56 WATER RE	SOUH 4. ORE	CON C
From To	Sict size Number	Tele/pipe Diameter size	Casing	Liner					
			_ 🗒					<del></del>	<del></del>
			_ 片		Date started 5/31/03	c	ompleted <u>5/31/03</u>		
					(unbonded) Water We				
			_ ⊔		I certify that the work I p of this well is in compliance				
• •		testing time is 1			Materials used and inform	-			
Pump	Bailer	. ☐ Air	Flowing A	Artesian	belief.		WWC Num	har	
Yield gal/min	Drawdown	Drill stem at	Time		Signed		Date		
Temperature of We	ater	Depth Artesian Flow for	und		(bonded) Water Well I accept responsibility for performed on this well dur performed during this time	or the construction, a ring the construction of the in compliance with	Iteration, or abandon dates reported above. n Oregon water suppl	. All wo	rk
Did any strata cont		By whome for intended use? Colored	Too little		Signed Robert Buck	1 Buc	www. Date 6/2/	ber <u>138</u>	
	RST COPY - WAT	ER RESOURCES	DEPARTMEN	T SE	COND COPY - CONSTR		D COPY - CUSTO	MER	

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#### STATE OF OREGON (WELL I.D.)# L\_72463 WATER SUPPLY WELL REPORT (as required by ORS 537.765) (START CARD) # 147290 Instructions for completing this report are on the last page of this form. Well Number Outback #5 (9) LOCATION OF WELL by legal description: (1) OWNER: Name City of Bend County Deschutes Latitude Longitude s Address PO Box 431 Township 17 Range 11 Ε WM. Zip 97709 City Bend Section 34 State OR SW 1/4 SE 1/4 Tax Lot 6202 (2) TYPE OF WORK Lot Block Subdivision New Well Deepening Alteration (repair/recondition) Abandonment Street Address of Well (or nearest address) 18900 Skyliners Rd (3) DRILL METHOD: Bend, OR 97701 (10) STATIC WATER LEVEL: Rotary Air Rotary Mud Cable Other Reverse Circulation Rotary Date 10/7/04 486 ft. below land surface. (4) PROPOSED USE: Artesian pressure lb. per square inch, Date (11) WATER BEARING ZONES: Community Industrial Domestic Irrigation Livestock Thermal Injection Other (5) BORE HOLE CONSTRUCTION: Depth at which water was first found 624 Special Construction approval Yes No. Depth of Completed Well 861 ft. Amount Explosives used Yes No Type From **Estimated Flow Rate** SWL 861 624 HOLE SEAL **500 #**8 500 #10 Sacks or pounds Material 8 Cement & Bent 0 160 334 sks 10 26 20 635 Intermediate Seal Ing Material: 8 160 Bentonite 635 861 615 40,200 pounds 15 615 625 175 sks Cement (12) WELL LOG: How was seal placed: $\square$ B $\mathbf{Z}_{\mathsf{C}}$ Ground Elevation Other Bentonite was poured & probed SWL Backfill placed from ft. to Material Material From To ft. see attached formation log Gravel placed from ft. to Size of gravel (6) CASING/LINER: Weided T∙ Gauge Steel Plastic Threaded .375 Casing: 16 +3 625 Z RECEIVED NOV 1 0 2004 Liner. 12 615 861 .375 Z WATER RESOURCES DEPT Final location of shoc(s) SALEM, OREGON (7) PERFORATIONS/SCREENS: RECEIVED Method Factory mill cut Perforations Material Screens Diameter 861 Z 3/16x3 11520 WATER RESOURCES DEPT SALEM, OFFEGON Date started 3/19/04 Completed 10/12/04 (8) WELL TESTS: Minimum testing time is 1 hour (unbonded) Water Well Constructor Certification: Flowing Bailer Pump ☐ Air Artesian 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 the best of my knowledge and belief. Drill stem at Time Yield gal/min Drawdowi 1500 0.3 feet l hr. 1500 24 hours 0.75 feet WWC Number 1695 Date 11/9/04 Temperature of water ~52F Depth Artesian Flow Found (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. Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use? Salty Muddy Odor Octored Other WWC Number 649 Depth of strata: Date 11/9/04

THIRD COPY-CUSTOMER

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

STATE OF OREGON

#### (WELL I.D.)# L.67857 WATER SUPPLY WELL REPORT (as required by ORS 537 765) (START CARD) # 164709 instructions for completing this report are on the last page of this form Well Number Outback #6 (9) LOCATION OF WELL by legal description: Name City of Bend County Deschutes 1.atitude i.ongitude Address P.O. Box 431 S Township 17 Range 11 E SW Zip 97701 City Bend 1/4 SE State Or Section 34 1/4 (2) TYPE OF WORK Tax Lut 6202R2 Lot Subdivision Block ☑ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment Street Address of Well (or nearest address) 15900 Skyllner Rd., Bend, OR (3) DRILL METHOD: Rotary Air Rotary Mud Cable (10) STATIC WATER LEVEL: Auger Other Reverse Circulation, Dual Rotary 480 Date 11/02/04 it. below land surface. (4) PROPOSED USE: Artesian pressure \* Its, per square inch (II) WATER BEARING ZONES: Domestic Community 1 Industrial []] Irrigation Thermul Injection [ ] Livestock Other (5) HORE HOLE CONSTRUCTION: Depth at which water was first found 115 Special Construction approval Tyes No. Depth of Completed Well 864 R Explosives used Tyes No Type \_ SWI. From Estimated Flow Rate HOLE 115 126 115 SEAL. 516 582 200 gpm 460 Frum From Te Material Sacks or nounds 502" Cement 20-460' 480° | 5 yards 838 264 480 0 Rev.Circ- unmeasuable 160" | 11 yards 0 16" 502' 864' (12) WELL LOG: How was seal placed: $\mathbb{G}_{\mathbb{B}}$ []]D $\square$ E Method **⊘**[∪ **Ground Elevation** Uther ... Backfull placed from 160 ft. to 460 ft SWI. Material sand grout Material From \*\*\* SEE ATTACHED LOG" Gravel placed from 480 f. to 602 Ñ. Size of gravel 1/4 (6) CASING/LINER: Gauge Welded 875' .375 Casing 16" Z C Liner 12" DFC 15 2004 662.1 864 WATER RESOURCES DEPT SALEM, OREGON Final location of shocts) (7) PERFORATIONS/SCREENS: Perforations Method Factory RECEIVED Screens. Material 864° 3/16x3 9,120 12" **200**7 ű ō Li **Mater resources de**pt SALEM, OREGON Completed 11/24/04 (8) WELL TESTS: Minimum testing time is I haur Date started 08/14/04 (unbonded) Water Well Constructor Certification: Flowing [\_] Artesius 2 Pump \_\_'Air I certify that the work I performed on the construction, alteration, or abandonment 🔲 Dailer of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge. Time Yield gaVenia l hr. and belief. 1,450 24 hr WWC Number 2/1/202 Date 1. / 7/04/ (bunded) Water Well Constructor Certification: Temperature of water 53 F Depth Artesian Flow Found 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 a use to the best of my knowledge and belief. Was a water analysis done" Yes By whom City of Bend Did any strata contain water not suitable for intended use? [ ] Too little Salty Muddy JOdor Colored Cother WWC Number 1623 Depth of sirala: Date 12-02-04 Signed ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT. SECOND COPY-CONSTRUCTOR

THIRD COPY-CUSTOMER

# City of Bend Outback Well #5 by Schneider Drilling Co.

## Start Card #W147290 Label #L72463

852 861 Basalt, brown, fractured

		Start Carum W14/230 Dabe	I #L/2403
<u>FM</u>	<u>TO</u>	DESCRIPTION	
0	2	Top soil & cobbles	
2	8.5	Basalt, soil, boulders, cobbles	•
8.5	21	Conglomerate, red, cindery	
21	27	Basalt, grey, hard	
27	68	Basalt, grey & some red, vesicular	
68	<b>70</b> .	Pumice, tan & basalt, grey	
70	210	Pumice, tan, cinders, vesicular, grey	N. Carlotte and Ca
210	230	Pumice, white & cinders, red & grey	
230	255	Pumice, tan & cinders, brown & red & basa	lt, grey
255	342	Basalt, grey & red & pumice, tan	
342	355	Basalt, vesicular, grey & red, pumice, tan	
355	365	Basalt, grey & red & pumice, tan	
365	370	Basalt, grey & cinders, red w/ some Pumice	, tan
370	388	Cinders, red & basalt, grey w/some pumice	tan
388	397	Cobbles & Gravel, cemented	
	417	Cinders, red & basalt, grey, vesicular	
	430	Basalt, grey, hard w/some cinders, red	
		Cinders, red, soft	RECEIVED
	468	Basalt, grey, medium-hard	KECEIVED
	550	Cinders, red & black	NOV 1 0 2004
	620	Pumice, tan & cinders red & black	NOV 1 0 2007
	624	Basalt, grey, hard	WATER RESOURCES DEPT
	642	Cinders, soft	SALEM, OREGON
	649	Basalt, black	
	666	Cinders, red & black	
	669	Cinders, red	
	696	Cinders, red & black	
	714	Basalt, grey	•
	723	Basalt, red	
	742	Cinders, red	
	753	Basalt, grey, hard	
	757	Basalt, brown, vesicular	RECEIVED
	763	Basalt, black, broken	***************************************
		Cinders, black & red	MAR 2 1 2007
		Cinders, red	MAN 2 1 ZUU!
	787 833	Basalt, grey, hard Basalt, grey, hard, some fractures	WATER RESOURCES DEPT
	8 837		SALEM, OREGON
		Basalt, tan & black	
03/	032	Dasail, tall & Diack	

Amendment

# STATE OF OREGON WATER SUPPLY WELL REPORT (sa required by ORS 537.765)

	**
(WELL I.D.)# L_67857	(amended DESC 56449)
(START CARD) # 16470	_

Instructions for completing this report are	e on the las	t page of this form.	T	(0312111 012143)			
(1) OWNER:	Well Nu	mber Outback #6	(9) LOCATION OF	WELL by legal de	scription:		
Name City of Bend			County Deschute		•	gitudo	
Address P.O. Box 431			Township 17	S Rang	c_11	E	WM.
City Bend State	Or	Zip 97701	Section 34	<b>SW</b> 1/	4 8E	1/4	
(2) TYPE OF WORK			Tax Lot 6202R2	ot Block	\$	bdivision	
☑ New Well ☐ Deepening ☐ Alteration (rep	pair/recondi	tion) 🔲 Abandonment	Street Address of Wel	(or nearest address)	15900 Skylin	er Rd., Bend	d, OR
(3) DRILL METHOD:			97701				
Rotary Air Rotary Mud Cable	∏ Auş	ger	(10) STATIC WATE	R LEVEL:			
Other Reverse Circulation, Dual Rota	ry		480 ft. bele	ow land surface.		Date 11/02/04	4
(4) PROPOSED USE:			Artesian pressure		uare inch. I	)ate	
Domestic Community Industr		Irrigation	(11) WATER BEARI	NG ZONES:			
Thermal Injection Livesto	ock	Other					
(5) BORE HOLE CONSTRUCTION:	D 4 . CO	14.132.0.00	Depth at which water was	first found 110	<del></del>		
Special Construction approval Yes No I					T-11	The Date	1000
Explosives used Yes No Type		LINOUNT	From	125	30	Flow Rate	115
	rouse To	Sacks or pounds	516	582	200 gpm		480
		5 yards	638	664	Rev.Circ- un	nmessuzble	_
0	160'	11 yards					
16" 502' 864'							
			(12) WELLLOG:				
How was seel placed: Method	□B [	ZC D E		Elevation			
Other		_					
Backfill placed from 160 ft. to 460 ft		rial sand grout	Materis		From	_To	SWL
Gravel placed from 480 ft. to 502 ft	. Size o	of gravel 1/4	*** SEE ATTACHED I	.00"		ļ	
(6) CASING/LINER:							
Diameter From To Gauge St							
	<b>Z</b>			· _		<del>                                     </del>	
	] [		-			<del></del>	
	] [		RECE	V <del>FD</del> –		ļ	
Liner: 12" 662.1' 864'						-	
Liner: 12" 662.1' 864'			FEB 24	2005			
Final location of shoe(s)			TED A.S.				
(7) PERFORATIONS/SCREENS:			WATER RESOU	RCES DEPT			
Perforations Method Factory			SALEM, OF				
Screens Type		aterial			DEC	EIVE	3
Slet From To size Number, Dinnet	Tele/p				8 8 1		
664' 864' 3/16x3 9,120 12"							A 10
					MAR	2 1 <b>2</b> 0	V/
						<b>-</b>	
		_ 🖳 🗀		***************************************	WATER RE	Sounce	S DEP
			]		SALE	H, OREGO	)N
AND THEFT Y PRESCRIPTION DATE AND ADDRESS OF THE PERSON OF			D-1-1-1-1-06/4484			<u>                                      </u>	
(8) WELLTESTS: Minimum testing ti	mic is 1 ho	ur	Date started 06/14/04		mpleted 11/24/	-	
Of Domes O Dailes O A	ir	Flowing Artesian	(unbouded) Water Well ( I certify that the work)			ation or shane	donment
☑Pump ☐Bailer ☐A	NT Il stem at	Time	of this well is in complian	ce with Oregon wate	r supply well cor	astruction star	idards.
Yield gaVmin Drawdown Drill	e stem at	1 hr.	Materials used and inform	ation reported above	are true to the b	est of my kno	wiedge
1,450 1'		24 hr		Dall	WWC Nun	nber 1702	
			Signed MASS	( CHA)		Date 02-21-	05
Temperature of water 53 F Depth Ar	rtesian Flow	Found	(bonded) Water Well Co	nstructor Certificat			
Was a water analysis done? Yes By w			I accept responsibility	for the construction,	alteration, or aba	indonment wo	urk
Did any strata contain water not suitable for int		Too little	I performed on this well du	ring the construction	dates reported a	bove. Ali wor	rk
Salty Muddy Odor Colored			performed during this time construction at indards. T	his report is true to the	ie best of my kno	owledge and b	elief.
Depth of strata:			/////	<b>II</b>		nber <u>1523</u>	
			Signed Www	N/		Date 02-21-	-05

### DESC 56449



Geo-Tech Explorations
A Division of Isoan Lenguear
19700 SW Teton Ave
Tualatin, OR 97062
503-692-6400
503-692-4759 (fax)

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DEC 15 2004

WATER RESOURCES DEPT SALEM, OREGON

Start Card: <u>164709</u> Well Label: <u>L67857</u>

Boring #: Outback #6

### Soil Profile Continued from Log:

Material -	From	To	SWL
Soil	0	4	
Broken Brown Rubble	4	12	
Broken Pumice	12	46	
Basalt - black & red	46	51	
Basalt – gray	51	115	
Basalt (soft) - red	115	260	115
Basalt black	260	380	
Lava Pumice – brown & red	380	435	
Basalt - brown & red	435	446	
Red lava rock	446	472	
Basalt - black w/ brown	472	516	_
Lava - brown & red	516	582	480
Cinders – brown & red	582	620	Ţ
Basalt - brown	620	638	1
Lava – black & brown (caving)	638	658	Ì
Red cinders (caving)	658	689	i
Basalt - black w/ red	689	691	i
Basalt - gray	691	700	Ì
Lava – gray w/ red	700	705	Ĭ
Basalt - brown w/ red lava	705	710	i
Red Cinders	710	744	Ĭ
Basalt - gray	744	751	i
Red Cinders	751	780	i
Basalt - gray	780	801	L
Basalt - gray & red	801	831	i
Basalt - red	831	836	i
Red Cinders	836	864	480
	·		
	B	CEI	VED
	MA	R 21	2007
	•		RCES DEP