STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

CROO 52423 AMMENDED - 1/11/05 Instructions for completing this report are on the last page of this form

C X 59) WELL ID # 75454 (START CARD) # 162939	_
57'r	(START CARD) # 162939	

(1) OWNER: Well Number: Inj#1	(9) LOCATION OF WELL by legal description: County Creat AK Latitude Longitude
Name Town of Lakeview	Township 39S N or S. Range 20E E or W. of WM.
Address <u>525 North 1st Street</u> City <u>Lakeview</u> State <u>OR</u> Zip <u>97630</u>	Section 4(B) SE 1/4 NW 1/4
(2) TYPE OF WORK:	Tax lot 900 Lot Block Subdivision Street Address of Well (or nearest address) Old Mill Rd.,
(2) TTPE OF WORK. ▼ New Well □ Deepening □ Alteration (repair/recondition) □ Abandonmen	Lakeview OP
	(10) STATIC WATER LEVEL:
(3) DRILL METHOD:	0 ft. below land surface. Date 12/2/ 04
X Rotary Air X Rotary Mud Cable Auger ○Other ○	
(4) PROPOSED USE:	= (11) WATER BEARING ZONES:
(4) PROFOSED USE. Domestic Community Industrial Irrigation	Depth at which water was first found 6
Thermal Xinjection Livestock Other	From To Estimated Flow Rate SWL
(5) BORE HOLE CONSTRUCTION:	6 117 200 3 188 203 800+ 3
Special Construction approval Yes XNo Depth of Completed Well 204	100
Explosives used Yes XNo Type Amount	
HOLE SEAL Amount	(12) WELL LOG:
Diameter From To Material From To sacks or pounds 16in 0 180 Cement 0 180 132 sacks	Ground elevation 5180
11in 180 194 Cement 0 150 66 sacks	Material From To SWL
8.75 194 204	This well is for injection from production well approximately 3/4 mile away. Lost circulation
	occured in the bottom from 193' to 204'. Drilled
	that portion with odex system and 8" casing. Set
How was seal placed: Method A B XC D E	6" screen and pulled back 8" to expose 6"
Other Backfill placed from ft. to ft. Material	screen. Injected well with water from Production well at a
Gravel placed from 150 ft. to 204 ft. Size of gravel Pea	rate of 175 gpm with .5' rise in water level of
(6) CASING/LINER:	injection well.
Diameter From To Gauge Steel Plastic Welded Thread	
Casing: 12in +2 180 .250 X	16N 1 4 2005
8in +2 181 .250 X	
	WATER RESCURCES DEPT
Liner: 6in 172 182 .250 X	SALEM, OREGON
Final location of shoe(s)	
(7) PERFORATIONS/SCREENS:	WESTERN WATER DEVELOPMENT
· · _	P.O. Box 1670
Perforations Method Pullback X Screens Type slotted Material Stainless	Redmond, OR 97756
Slot Tele/pipe	
From To size Number Diameter size Casing Liner 182 204 .040 6in pipe X	
	Date started 9/20/ 2004 Completed 12/ 10/2004
	(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.
(8) WELL TESTS: Minimum testing time is 1 hour	Materials used and information reported above are true to my best knowledge and belief.
Pump Bailer []Air LFlowing Artesia	WWC Number
Yield gal/min Drawdown Drill stem at Time	Signed Date
225 6 105 24 hr.	
	(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
Temperature of Water 194 Depth Artesian Flow found	performed during this time is in compliance with Oregon water supply well
Was a water analysis done? Yes By whom	construction standards. This report is true to the best of my knowledge and belief. WWC Number 1385
Did any strata contain water not suitable for intended use? ☐ Too little ☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other	Signed Dec 12/31/2004
Depth of strata:	Robert Buckner

(START CARD) # 162939

(1) OWNER:			W	ell Num	ber: In	j#1		(9) LOCATION OF W		escription: Latitude		ongitude	e
Name Town								Township 39S N		20E		W. of V	
Address 525 No City Lakevi		t Street		State C	NP Zir	97630			SE	1/4NV		1	/4
					/1	07000		Tax lot 900 Lot Street Address of Well (o	Block		iubdivis a	sion	
(2) TYPE OF \								Lakeview, OR	or moderous dedicoso)	Old Will K	u.,		
X New Well	Deepen	ing LAI	teration (rep	air/reco	ndition)	Abar	ndonment	(10) STATIC WATER	I EVEL:				
(3) DRILL ME	THOD:	:							land surface.		Dat	e 12/2	2/ 04
X Rotary Air	XRo	tary Mud	Cable			Auger		Artesian pressure	lb. per s	square inch.	Dat	te	
Other								(11) WATER BEARIN	IG ZONES:				
(4) PROPOSE	D USE	:						Depth at which water wa	s first found 6				
Domestic	=	mmunity	Indust			Irrigatio	n	<u> </u>		Estimate	ط 5امین	Doto	C/A/I
Thermal	X Inje	ection	Livesto	ock		Other _		From 6	To 117	Estimate	200	Kale	SWL 3
(5) BORE HO	LE CO	NSTRUC	TION:					188	203		00+		3
Special Construct			X No	Depth o			204 ft.						-
Explosives used HOLE	Yes	X No Typ	SEAL		_ Amou		ount						
Diameter From	To	Ma		From	To	sacks or		(12) WELL LOG:	Ground a	elevation 518			
16in 0		Cement		0		132 sac			Ordana e	310)U		
11in 180 8.75 194	+	Cement		0	150	66 sack	KS	This well is for inject	aterial		rom	То	SWL
8.75 194	204							approximately 3/4 m					
								occured in the botto					
		L			1	 		that portion with od			. Set		1
How was seal place	ced: Me	thod LA	В Х	C]D [_ E		6" screen and pulle screen.	d back 8" to ex	pose 6		 	+
Backfill placed fro	m	ft. to	ft. N	A aterial				Injected well with w	ater from Produ	uction well	l at a		
Gravel placed fro	m <u>150</u>	ft. to 20	4 ft. S	Size of g	ravel E	ea '		rate of 175 gpm with	.5' rise in wate	er level of			
(6) CASING/L	INER:							injection well.					
Diamete		m To	Gauge St	eel P	lastic	Welded	Threaded	SEE ATTACHED LI	HOLOGY				+
Casing: 12ir		2 180	.250	X		X							
8in	1 +	2 181	.250	X		X		HECE	1000				
				_				1000	1. 000%				+
Liner: 6ir	1 17	2 182		X		X		JAN i	0 2005				
								MATEG DECI	UNCES DEPT				ļ
Final location of s	hoe(s)	****						WESTERLENW	MESODIEVE OI	DMENT			-
(7) PERFORA	ATIONS	S/SCREE	NS:						Box 1670				
Perforation			ullback				,		d, OR 9775	56			
X Screens		Type sic	tted			Stainles:	<u>s</u>	KEGMON	u, OK 7777	,,,			
From To	Slot size	Number	Diameter	Tele/ siz		Casing	Liner						+
182 204	1	1	6in	1	ipe	X							
	<u> </u>			-				Date started <u>9/20/</u> 2004	Cor	mpleted 12/	10/2	2004	
								(unbonded) Water Well					
								I certify that the work I per					
(8) WELL TE	STS: N		testing ti	ne is	1 hou	r		of this well is in compliance Materials used and informa	_				
X Pump		Bailer	. Air			Flowing	Artesian	belief.	ilon reported above o	are inde to my	DC3t Ki	nomea	jo ana
<u> </u>			G-10							wwc	Numb	er	
Yield gal/min	Dra	awdown	Drill st	em at		Time	9	Signed		Date			
225		6	1	05		24 hr.							
	ļ				_			(bonded) Water Well C				mant	ork
					-			I accept responsibility for performed on this well during					
Temperature of V	Vater 10	94	Depth Artesi	an Flow	v found			performed during this time					
Was a water anal	lysis don	e? Yes	By whom					construction standards. Th		e best of my l	mowled	dge and	
Did any strata cor						Too little		Signed Tobes	七代。 b	WWC Date	Numb	per <u>138</u>	35
Salty Muc				Other				Signed / Sobert Buckn		Date	<u>121</u> 3	r / ZUļ	<i>J</i> 4
Depth of strata:								Nobelt Buckli	<u> </u>				

	Lakeview Geothermal Injection Well Geologic Log						
Depth Interval (feet bls)		Description of Geology					
From	То						
0	20	No sample					
20	48	Medium to coarse sand with some fine sand. Subangular, greenish-grey color.					
48	52	Clayey, sandy gravel.					
52	55	Gravel zone with 2 degree temperature increase.					
55	70	Very coarse sand with fine sand and clay. Some gravel at bottom of interval.					
70	90	Clayey sand with some gravel.					
90	95	Gravel with fine to coarse sand and clay.					
95	98	Gravel bed.					
98	108	Gravel with sand and clay.					
108	112	Gravel bed.					
112	117	Clayey gravel with sand.					
117	140	Clayey gravel and gravelly clay. Decreasing gravel size and increasing clay content towards bottom of interval.					
140	164	Gravelly clay with some sand. Greenish color. Angular to subangular gravel.					
164	166	Gravel zone.					
166	188	Gravelly clay with sand as above					
188	192	Total loss of circulation. Either cobbles or fractured bedrock.					
192	203	Volcanic bedrock. Interbedded, consolidated ash tuff and clay-altered ash tuff. Bluish grey color. Limited return of cuttings to 198, with increasing return to 203.					
203		End of hole.					

Western Water Development P.O. Box 1670 Redmond, OR 97756



JAN 1 0 2005

WATER RESOURCES DEPT SALEM, OREGON