STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

CROO 53636

10-20-2008

WELL

 WELL LABEL # L
 96138

 START CARD #
 1004534

(1) LAND OWNER Owner Well I.D.	(9) LOCATION OF WELL (legal description)
First Name PHIL Last Name HARTZEL	County Crook Twp 17.00 S N/S Range 22.00 E E/W WM
Company TWIN BUTTE RANCH	Sec 2 SW 1/4 of the SE 1/4 Tax Lot 200
Address 67400 SW PAULINA HWY	Tax Map Number Lot
City POST State OR Zip 97752	Tax Map Number Lot Lat 44 7 20.000" or 44.12222222 DMS or DD
(2) TYPE OF WORK New Well Deepening Conversion	Long <u>-120</u> <u>3</u> <u>6.000</u> or <u>-120.05166667</u> DMS or DD
Alteration (repair/recondition)	Street address of well Nearest address
(3) DRILL METHOD	67400 SW PAULINA HWY
Rotary Air Rotary Mud Cable Auger Cable Mud	
Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
	Existing Well / Predeepening
(4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Dewatering	Completed Well 10-07-2008 138
Thermal Injection Other	Flowing Artesian? Dry Hole?
	WATER BEARING ZONES Depth water was first found <u>265</u>
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy	
Depth of Completed Well 440.00 ft. BORE HOLE SEAL sacks/	10-01-2008 265 302 1,000 138 10-02-2008 418 437 500 138
BORE HOLE SEAL sacks/ Dia From To Material From To Amt lbs	
18 0 100 Bentonite Chips 0 15 20 S	
14 100 440 Cement 15 100 50 S	
	(11) WELL LOG Ground Elevation 2 052
How was seal placed: Method A B C D E	
Notwer Poured Dry	MaterialFromToClay Sand Gray010
Backfill placed from ft to ft Material	Claystone Gray 10 20
Backfill placed from ft. to ft. Material Filter pack from ft. to ft. Material Size	Claystone Brown 20 30
Explosives used: Yes Type Amount	Clay Green 30 50
	Clay Brown 50 66 Basalt Gray 66 90
(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	Basalt Gray 66 90 Basalt Fractured Layers 90 135
$\bigcirc \bigcirc \bigcirc 14 \boxtimes 1.5 \mod 250 \bigcirc \bigcirc \boxtimes \bigcirc$	Basalt Gray Hard 135 200
	Basalt Gray Fractured 200 207
	Basalt Black 207 235 Basalt Gray Hard Fractured 235 302
	Basalt Gray Hard Fractured235302Basalt Black Fractured Layers302360
	Basalt Gray 360 418
Shoe Inside Outside Other Location of shoe(s)	Basalt Brown Clay Seams 418 437
Temp casing Yes Dia From To	Basalt Black Hard 437 440
(7) PERFORATIONS/SCREENS	
Perforations Method	
Screens Type Material	
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/	Date Started <u>09-15-2008</u> Completed <u>10-07-2008</u>
creen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification
	I certify that the work I performed on the construction, deepening, alteration, o
	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.
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date Date
Pump Bailer Air Flowing Artesian	Electronically Filed
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Signed THOMAS R PECK (E-filed)
1,500 440 2	(bonded) Water Well Constructor Certification
	I accept responsibility for the construction, deepening, alteration, or abandonmer
Temperature 53 °F Lab analysis Yes By	work performed on this well during the construction dates reported above. All wor performed during this time is in compliance with Oregon water supply we
Temperature <u>53</u> °F Lab analysis Yes By Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number 1720 Date 10-20-2008
	Electronically Filed
	Signed JACK ABBAS (E-filed)
	Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

WATER SUPPLY WELL REPORT -

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10-20-2008

(5) BORE HOLE CONSTRUCTION BORE HOLE

В	ORE H	OLE				SEAL			sacks/
Dia	From	n To		Mater	ial	From	То	Amt	
L		ER PAC	v						
					<i>a</i> :				
_	From	То	Ma	aterial	Size				
-									
-									

(6) CASING/LINER

Casing Liner	Dia	+	From	То	Gauge	Stl Pl	stc Wld	Thrd
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(7) PERFORATIONS/SCREENS

	Casing/ Liner	From	То	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
<u> </u>							

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump dep	th Duration (hr)

Water Quality Concerns

From	То	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	То	Est Flow	SWL(psi)	+	SWL(ft)
					Ц	
					Ц	
					H	
					H	
					H	
					H	
					H	
			I		Ц	

(11) WELL LOG

Material	From	То
		-

Comments/Remarks

3 yards sand grout 190 feet - 220 feet