

STATE OF OREGON
WATER WELL REPORT
 (as required by ORS 537.765)

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 8410
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 JUL 13 1993

(START CARD) # 34244

185/11E/1266

(1) OWNER:
 Name Cascade Highlands
 Address 121 SW Morrison Suite 950
 City Portland State OR Zip 97204

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 530 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
20	0	30	Cement			
17	30	530	Cement	0	350	225 sacks

How was seal placed: Method A B C D E
 Other

Backfill placed from ___ ft. to ___ ft. Material _____
 Gravel placed from ___ ft. to ___ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	12	+1	530	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method Machine Slot
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
430	530	4x1/4	6000	12		<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump N/A Bailer Air Flowing Artesian
 Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____

Temperature of Water 52 Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County Deschutes Latitude _____ Longitude _____
 Township 18 S N. or S. Range 11 E E or W. WM. _____
 Section 12 NW 1/4 NW 1/4
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 1 1/2 Miles North of Century Drive

(10) STATIC WATER LEVEL:
330 ft. below land surface. Date 6/2/92
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
 Depth at which water was first found 360

From	To	Estimated Flow Rate	SWL
360	530	1000	330

(12) WELL LOG:
 Ground elevation _____

Material	From	To	SWL
Dirt & soil	0	4	
Basalt grey fractured	4	12	
Pumice white	12	28	
Lava gray medium hard	28	85	
Lava gray pourous softer	85	126	
Lava conglomerate brown	126	148	
Lava brown with tan clay	148	202	
Lava gray brown medium	202	230	
Lava gray hard	230	243	
Lava fractured gray	243	256	
Lava with lava weathered brown	256	278	
Lava conglomerate with clay interbeds	278	338	
Lava gray hard	338	375	
Andacite gray hard	375	418	
Lava cinders red	418	436	
Lava brown pourous	436	530	

Date started 5/5/92 Completed 6/2/92

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

Signed [Signature] WWC Number 1358
 Date 6/9/92

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

Signed [Signature] WWC Number 723
 Date 6-9-92