



Westerberg Drilling, Inc.
36728 S. Kropf Rd.
Molalla, OR 97038

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

WELL I.D. # L 101904

START CARD # 201581

Instructions for completing this report are on the last page of this form.

(1) LAND OWNER **Carlhaven East #6**
 Name **City of Keizer**

Address **930 Chemawa Rd NE**
 City **Keizer** State **OR** Zip **97307**

(2) TYPE OF WORK New Well
 Deepening Alteration (repair/recondition) Abandonment Conversion

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

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

(5) BORE HOLE CONSTRUCTION Special Construction: Yes No
 Depth of Completed Well **280** ft.
 Explosives used: Yes No Type _____ Amount _____

BORE HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or Pounds
20"	0	20	Bentonite	0	6	22 sacks
16"	20	96	Cement	6	96	151 sacks
12"	96	300				

How was seal placed: Method A B C D E
 Other **Bentonite Placed Dry**

Backfill placed from **280** ft. to **300** ft. Material **Cement Grout**
 Gravel placed from **163** ft. to **280** ft. Size of gravel **8/12 & 6/9 css**

(6) CASING/LINER

Casing:	Diameter	From	To	Gauge	Seal			
					Steel	Plastic	Welded	Threaded
	12"	+2	173	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:	None				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None

Final location of shoe(s) **283' Cut Off**

(7) PERFORATIONS/SCREENS
 Perforations Method **V-Wire**
 Screens Type _____ Material **SS**

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
160'	252'	.060				<input type="checkbox"/>	<input type="checkbox"/>
252'	280'	.040				<input type="checkbox"/>	<input type="checkbox"/>
Bottom of plate w/ bail hook welded on a 280' stainless steel.						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
300	111		24 hr

Temperature of water **56** Depth Artesian Flow Found _____

Was a water analysis done? Yes By whom **4-B Engineering**

Did any strata contain water not suitable for intended use? Too little

Salty Muddy Odor Colored Other _____

Depth of strata: _____

(9) LOCATION OF WELL (legal description)
 County **Marion**

Tax Lot **4500** Lot _____
 Township **7** S Range **3** W WM
 Section **2** SW 1/4 NE 1/4

Lat _____ ° _____ ' _____ " or _____ (degrees or decimal)
 Long _____ ° _____ ' _____ " or _____ (degrees or decimal)

Street Address of Well (or nearest address) **1150 Brandon St.**
Keizer, OR

(10) STATIC WATER LEVEL
38' 11" ft. below land surface. Date **08/02/10**

_____ ft. below land surface. Date _____

Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES
 Depth at which water was first found **13'**

From	To	Estimated Flow Rate	SWL
All sand & gravel layers below static water level.			Varies

(12) WELL LOG Ground Elevation _____

Material	From	To	SWL
Gravel Roadbed	0	2	
Soil Brown	2	3	
Silt Brown Tan	3	5	
Silt Sandy	5	8	
Clay Brown & Grey Marbled	8	12	
Clay with Gravel Brown	12	13	
Gravel with Sand Med Coarse	13	56	
Clay with Gravel Brown	56	60	
Gravel & Sand Med Coarse Brown & Grey	60	71	
Clay Grey	71	80	
Sand Grey & Black Medium Fine w/layers of Grey Clay	80	89	
Sand Grey Medium some Gravel & Clay	89	91	
Gravel & Sand Medium Coarse	91	131	

Date Started **05/20/10** Completed **08/09/10**

(unbonded) Water Well Constructor Certification
 I certify that the work I performed on the construction, deepening, 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.

WWC Number _____ Date **AUG 25 2010**

Signed _____

(bonded) Water Well Constructor Certification
 I accept responsibility for the construction, deepening, 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.

WWC Number **688** Date **08/24/10**

Signed **Steven N. Stahl**

MARI 63186



36728 S. Kropf Rd., Molalla, OR 97038 • Phone: (503) 829-2526 FAX (503) 829-7514

WELL ID#	OWNER/BUSINESS NAME	MAILING ADDRESS	CITY/STATE/ZIP
L101904	City of Keizer	930 Chemawa Rd NE	Keizer, OR 97307

WELL ADDRESS	COUNTY	TOWNSHIP	RANGE	SECTION	1/4	1/4	TAX LOT
1150 Brandon St, Keizer, OR	MARION	7S	3W	2	SW	NE	4500

(12) WELL LOG INFO. CONTINUED FROM PREVIOUS PAGE:

MATERIAL	FROM	TO	SWL
Clay Brown	131'	132'	
Cemented Sand & Gravel Dirty	132'	139'	
Cemented Sand & Gravel Grey Brown	139'	163'	
Sand & Gravel Grey Brown Cemented	163'	182'	
Silt & Gravel Brown	182'	183'	
Sand & Gravel Grey Brown Cemented	183'	189'	
Silt Brown	189'	192'	
Sand & Gravel Brown Cemented	192'	196'	
Sand & Gravel Cemented	196'	211'	
Silt Brown Sandy & Small Gravel	211'	213'	
Gravel Brown Cemented	213'	218'	
Silt Brown Sandy & Gravel	218'	219'	
Gravel Brown Cemented	219'	223'	
Sand & Gravel Brown Cemented	223'	228'	
Silt Gray Green	228'	234'	
Gravel Grey & Silt	234'	237'	
Sand & Gravel Grey Cemented	237'	245'	
Silt Grey	245'	247'	
Sand & Gravel Grey Semi Loose	247'	252'	
Clay Grey	252'	259'	
Sand Grey Black w/Gravel & Clay	259'	264'	
Sand Grey Black Med/Fine Packed & Loosely Cemented	264'	275'	
Clay Brown Stiff	275'	291'	
Clay Brown/Red	291'	297'	
Clay Tan Grey Sticky	297'	300'	

AUG 25 2010



Oregon

Theodore R. Kulongoski, Governor

MARI 63186

Water Resources Department

North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

May 20, 2010

STEVEN N STADELI #688
WESTERBERG DRILLING
36728 S KROPF RD
MOLALLA OR 97038

FINAL ORDER

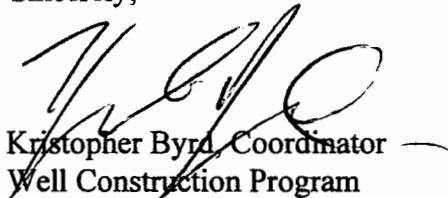
Dear Steve:

The Special Standard request you submitted for owner: City of Keizer, Start Card number 201581, is hereby approved for the following: You may construct this well within 20 feet from the dedicated underground drain line leaving the building holding the associated well equipment. This approval is based on my discussion with Mr. Butts, the consultant for the project. Per our discussion, the only connection to this drain line is the drain from the well equipment building. If more connections are added to this line within the setbacks then the well shall be permanently abandoned. ***A stipulation of the special standard is that the well must be continuously cased and continuously sealed into the clay layer at approximately 90 feet bgs.*** A deeper seal shall be placed if required by rule. Your Special Standard request form is enclosed. All other standards must be adhered to.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, I may be contacted at (503) 986-0851, or by e-mail at Kristopher.R.BYRD@wrdd.state.or.us.

Sincerely,



Kristopher Byrd, Coordinator
Well Construction Program
Well Construction and Compliance Section

enclosure

AUG 20 2010

cc: NW Region Well Inspector
File

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

