



WELL DRILLER'S REPORT
NORTH DAKOTA BOARD OF WATER WELL CONTRACTORS
STATE OF NORTH DAKOTA
SFN 60273 (11/2013)

ND Board of Water Well Contractors • 900 E. Boulevard Ave. - Dept. 770 • Bismarck, ND, 58505-0850
State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

WELL OWNER				Was pump installed? ☒ Yes ☐ No			
Name Earthwater Bakken LLC				Was well disinfected upon completion? ☒ Yes ☐ No			
Address 1720 Burnt Boat Dr. Bismarck, ND 58503				WATER LEVEL			
WELL LOCATION Sketch map location must agree with written location.				Static water level (in feet) below surface 72			
		County McKenzie		GPS		If flowing, closed-in pressure in psi	
		1/4 SE		1/4 SW		1/4 NW	
		Township 152		Range 99		Section 18	
PROPOSED USE				WELL TEST DATA			
☐ Domestic ☐ Geothermal ☐ Municipal ☒ Industrial ☐ Stock ☐ Irrigation ☐ Monitoring ☐ Test Hole				☒ Pump ☐ Bailer ☐ Other			
METHOD DRILLED				Pumping level below land surface			
☐ Cable ☐ Jetted ☒ Forward Rotary ☐ Reverse Rotary ☐ Bored ☐ Auger ☐ If other, specify _____				700 Feet after 140 Hrs. pumping 140 gpm			
WATER QUALITY Was a water sample collected for				Feet after Hrs. pumping gpm			
Chemical Analysis? ☐ Yes ☒ No							
Bacteriological Analysis? ☐ Yes ☒ No							
If so, to what laboratory was it sent?							
WELL CONSTRUCTION				WELL LOG			
Diameter of hole in inches 18" - 14.75" - 9.875"		Depth in feet 855		Formation		Depth (ft.)	
Casing:						From To	
☒ Steel ☐ Plastic ☐ Concrete ☐ Other				Topsoil		0 2	
☒ Threaded ☐ Welded ☐ If other, specify _____				Clayey Silt Br		2 22	
Pipe Weight	Diameter	From	To	Gravelly Sand Br		22 28	
65 lb/ft	16 inches	0 feet	40 feet	Clay with occ. coal lenses Gr		28 206	
40 lb/ft	10.75 inches	+2 feet	748 feet	Sand medium clean Gr		206 226	
17 lb/ft	6 inches	718-739 feet	769-790 feet	Silty Clay with coal layers Gr		226 477	
Was perforated pipe used? ☐ Yes ☒ No				Sand fine Gr		477 484	
Perforated pipe set from in feet		To in feet		Silty Clay Gr		484 576	
Was casing left open end? ☒ Yes ☐ No				Sand medium Gr		576 585	
Was a well screen installed? ☒ Yes ☐ No				Sandy Clay Gr		585 587	
Material Stainless Steel		Diameter in inches 6		Sand medium Gr		587 591	
Slot Size		Set from in feet		Silty Clay Gr		591 599	
.030		739		Soft sandstone with fractured layers Gr		599 608	
Slot Size		Set from in feet		Clay Gr		608 612	
.030		790		Sand dirty with coal lenses Gr		612 616	
Was packer or seal used? ☐ Yes ☒ No				Sandstone soft large cuttings Gr Very sandy water		616 630	
If so, what material		Depth in feet		Siltstone with coal stringers Gr		630 722	
Type of well ☐ Straight screen ☒ Gravel packed				Sand Gr Water bearing 25 gpm		722 726	
Depth grouted		From To		Siltstone Gr		726 758	
0				Sand medium Gr		758 764	
Grouting Material		Cement Other		(Use separate sheet if necessary)			
Cement				DATE COMPLETED 4/17/14			
If other, explain:				WAS WELL PLUGGED OR ABANDONED?			
Well head completion: Pitless unit N/A				☐ Yes ☒ No			
12" above grade Yes				If so, how			
If other, specify				REMARKS			
				DRILLER'S CERTIFICATION			
				This well was drilled under my jurisdiction and this report is true to the best of my knowledge.			
				Driller's or Firm's Name Gregory Drilling Inc		Certificate Number 57	
				Address 17609 NE 70th St Redmond, WA 98052			
				Signed by Chad N. Gregory		Date 7/15/14	



Earthwater Bakken LLC

Z-4 Deep Well

Formation Description	From	To
Silty Claystone Gr	764	793
Soft Sandstone/sand Gr	793	798
Clay/Silt Gr	798	807
Siltstone/Claystone very hard slow ROP Gr	807	815
Sand dirty Water	815	854
Siltstone/Claystone very hard	854	855