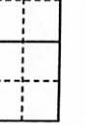


WELL DRILLER'S REPORT
NORTH DAKOTA BOARD OF WATER WELL CONTRACTORS
STATE OF NORTH DAKOTA
SFN 60273 (11/2012)

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 City of Minot				Was well disinfected upon completion? ☒ Yes ☐ No																																																																										
Address 515 2nd Ave SW, PO Box 5006, Minot ND 58702				WATER LEVEL																																																																										
WELL LOCATION Sketch map location must agree with written location.				Static water level (in feet) below surface 59' 7"																																																																										
		County Ward		If flowing, closed-in pressure in psi																																																																										
		1/4	1/4	1/4	GPM flow Through inch pipe																																																																									
		SE	NE	Controlled by ☐ Valve ☐ Reducers ☐ Other ☐ If other, specify																																																																										
Township 155N		Range 83W		Section 22		WELL TEST DATA																																																																								
PROPOSED USE				☒ Pump ☐ Bailer ☐ Other																																																																										
☐ Domestic ☐ Geothermal ☒ Municipal ☐ Industrial ☐ Stock ☐ Irrigation ☐ Monitoring ☐ Test Hole				Pumping level below land surface																																																																										
METHOD DRILLED				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Feet after</td> <td>Hrs. pumping</td> <td>gpm</td> </tr> <tr> <td>83' 6"</td> <td>2</td> <td>150</td> </tr> <tr> <td>Feet after</td> <td>Hrs. pumping</td> <td>gpm</td> </tr> <tr> <td>Feet after</td> <td>Hrs. pumping</td> <td>gpm</td> </tr> </table>				Feet after	Hrs. pumping	gpm	83' 6"	2	150	Feet after	Hrs. pumping	gpm	Feet after	Hrs. pumping	gpm																																																											
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☐ Cable ☐ Jetted ☒ Forward Rotary ☐ Reverse Rotary ☐ Bored ☐ Auger ☐ If other, specify																																																																														
WATER QUALITY Was a water sample collected for				WELL LOG																																																																										
Chemical Analysis? ☐ Yes ☒ No				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Formation</th> <th colspan="2">Depth (ft.)</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>Top soil - silty - Black</td> <td>0</td> <td>5</td> </tr> <tr> <td>Clay - silty - Tan</td> <td>5</td> <td>7</td> </tr> <tr> <td>Clay - silty - Gray</td> <td>7</td> <td>17</td> </tr> <tr> <td>Clay - Gray</td> <td>17</td> <td>24</td> </tr> <tr> <td>Sand</td> <td>24</td> <td>28</td> </tr> <tr> <td>Clay - silty - soft - Gray</td> <td>28</td> <td>37</td> </tr> <tr> <td>Clay - hard - Gray</td> <td>37</td> <td>55</td> </tr> <tr> <td>Sand & coal in gray clay</td> <td>55</td> <td>61</td> </tr> <tr> <td>Clay - Gray</td> <td>61</td> <td>75</td> </tr> <tr> <td>Sand - fine to medium</td> <td>75</td> <td>78</td> </tr> <tr> <td>Coal</td> <td>78</td> <td>79</td> </tr> <tr> <td>Sand & gravel</td> <td>79</td> <td>86</td> </tr> <tr> <td>Sand - fine to coarse</td> <td>86</td> <td>122.5</td> </tr> <tr> <td>Rock, shale - hard</td> <td>122.5</td> <td>125</td> </tr> <tr> <td>Shale</td> <td>125</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>				Formation	Depth (ft.)		From	To	Top soil - silty - Black	0	5	Clay - silty - Tan	5	7	Clay - silty - Gray	7	17	Clay - Gray	17	24	Sand	24	28	Clay - silty - soft - Gray	28	37	Clay - hard - Gray	37	55	Sand & coal in gray clay	55	61	Clay - Gray	61	75	Sand - fine to medium	75	78	Coal	78	79	Sand & gravel	79	86	Sand - fine to coarse	86	122.5	Rock, shale - hard	122.5	125	Shale	125																						
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Bacteriological Analysis? ☐ Yes ☒ No				(Use separate sheet if necessary)																																																																										
If so, to what laboratory was it sent?																																																																														
WELL CONSTRUCTION																																																																														
Diameter of hole in inches 17.5"		Depth in feet 122' 7"																																																																												
Casing: ☒ Steel ☐ Plastic ☐ Concrete ☐ Other ☐ Threaded ☐ Welded ☐ If other, specify																																																																														
Pipe Weight	Diameter	From	To																																																																											
lb/ft	inches	feet	feet																																																																											
	12	0	107' 7"																																																																											
lb/ft	inches	feet	feet																																																																											
lb/ft	inches	feet	feet																																																																											
Was perforated pipe used? ☐ Yes ☒ No																																																																														
Perforated pipe set from in feet		To in feet																																																																												
Was casing left open end? ☐ Yes ☒ No																																																																														
Was a well screen installed? ☒ Yes ☐ No																																																																														
Material Stainless steel		Diameter in inches 12"																																																																												
Slot Size	Set from in feet	To in feet																																																																												
50	107' 7"	122' 7"																																																																												
Slot Size	Set from in feet	To in feet																																																																												
Was packer or seal used? ☐ Yes ☒ No																																																																														
If so, what material		Depth in feet																																																																												
Type of well ☐ Straight screen ☒ Gravel packed																																																																														
Depth grouted	From	To																																																																												
0		97																																																																												
Grouting Material	Cement	Other Bentonite																																																																												
If other, explain:																																																																														
Well head completion: Pitless unit No				DATE COMPLETED 04/19/2017																																																																										
12" above grade Yes with locking cap				WAS WELL PLUGGED OR ABANDONED?																																																																										
If other, specify				☐ Yes ☒ No																																																																										
				If so, how																																																																										
				REMARKS																																																																										
				Well 13B																																																																										
				Well not in use																																																																										
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 Thein Well Co. Inc.		Certificate Number 72																																																																												
Address PO Box 778, Spicer MN 56288		Signed by		Date 05/06/2017																																																																										