

Appendix D
Well Inventory Results



Internal Memorandum

To: File
From: Kristen Betz and Ellen Considine
Subject: Well Inventory Results at UMore Mining Area
Date: July 1, 2009
Project: 23/19-0B05.07 SOC 300
c: Jim Eidem

A well survey was conducted on July 1, 2009 at the University of Minnesota Outreach, Research, and Experimentation (UMore) Mining Area (UMA). Information collected during the survey included the well diameter, location (e.g., inside pump house), and Unique ID number. The results of the well inventory are provided in Table 1 and shown on Figure 1. The photos taken during the survey are attached.

All known wells at the UMA were found with the exception of the following (identified with the Unique Well ID number):

- Well 207606. Public supply well was reportedly sealed. The reported location is being used for agricultural purposes (corn field).
- Well 208400. Well type was unknown, but appears to be domestic and reportedly still active. The well is located at a residential property and could not be found. The resident was not at home during the time of the inspection.
- Well 208405. Domestic well reportedly still active. The well is located at a residential property and could not be found during inspection. The resident was not at home during the time of the inspection.
- Well 543864. Monitoring well reportedly sealed. A local farmer was not aware of a well in the reported location.
- Well H48777. Well reportedly still active and likely a public supply well. The reported location is being used for agricultural purposes (corn field).

Attachments

Table 1	Well Inventory Summary
Figure 1	Existing, Sealed and Unknown Wells
Appendix	Photologs, Well Records

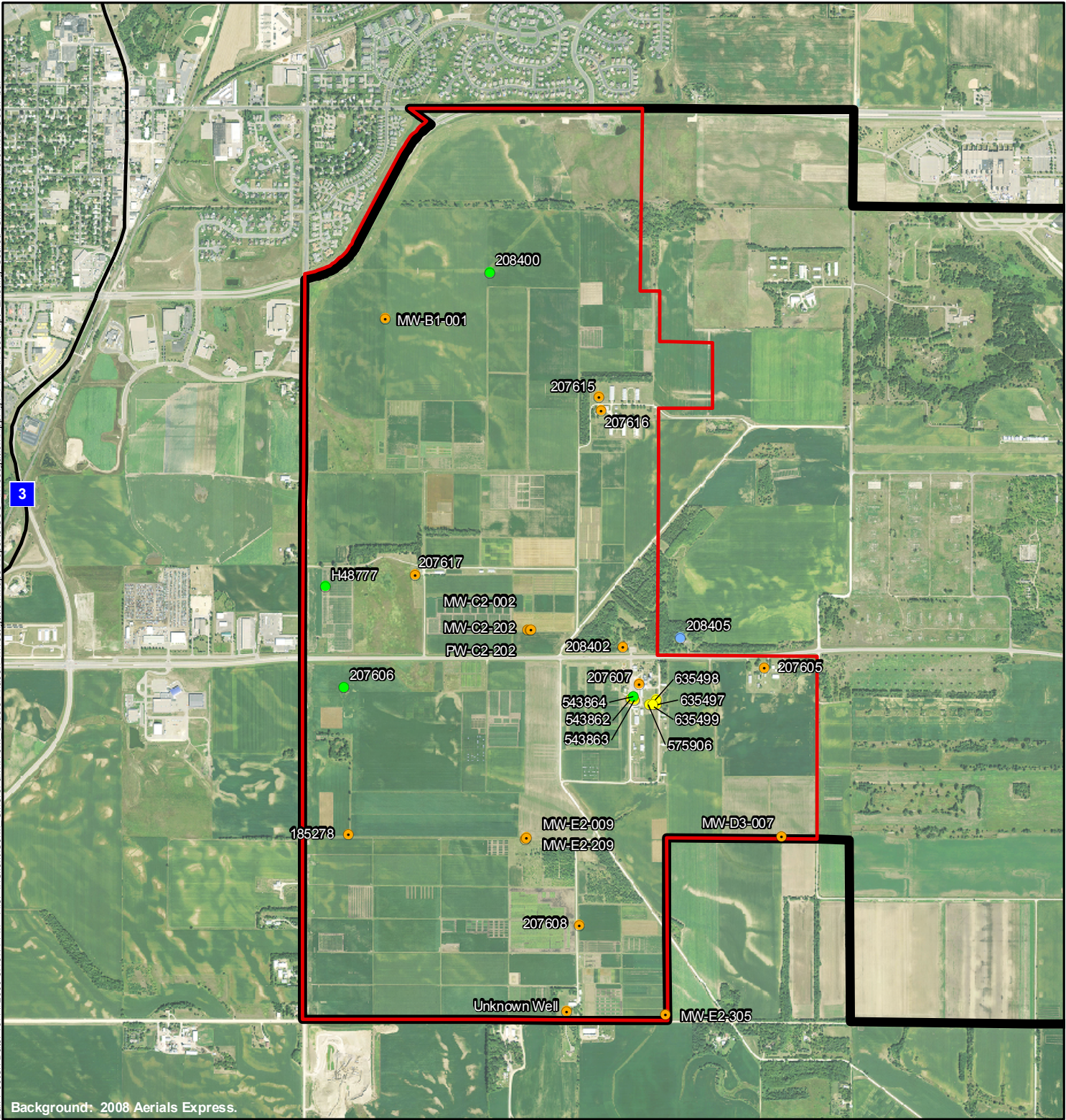
Table 1
Well Inventory Summary
Phase II Investigation SOCs 1-3 and 6-8
UMore Mining Area
Dakota County, Minnesota

Well ID	Reported Well Type	Reported Status	Current Status	Location ¹		Field Inspection		Comments
				Northing	Easting	Unique Well ID Tag	Diameter (inches)	
185278	Existing Well	Active	Active	4950778.9	490996.6	No	12	Irrigation well
207605	Existing Well	Active	Active	4951516.7	492837.4	No	--	Located inside pump house
207606	Public Supply/Non-Community	Sealed	Sealed	4951431.3	490976.1	--	--	Not present; site now a farm field
207607	Public Supply/Non-Community	Active	Active	4951442.7	492285.3	No	4	Located inside pump house
207608	Existing Well	Active	Active	4950378.9	492021.9	No	12	Located inside pump house
207615	Irrigation	Active	Active	4952652.0	492115.4	No	6	Located at the turkey farm, inside pump house
207616	Irrigation	Active	Active	4952715.7	492106.6	No	4	Located in well house at turkey farm
207617	Irrigation	Active	Active	4951925.8	491292.1	No	12	Located in shed
208400	Not reported	Active	--	4953262.3	491622.1	--	--	Not present; possible mislocate in database
208402	Existing Well	Active	Active	4951608.1	492212.6	No	6	Administration building well, well diameter not measured
543862	Monitor well	Sealed	Sealed	4951376.7	492247.3	No	4 (?)	Flush with ground surface, filled
543863	Monitor well	Sealed	Sealed	4951375.1	492264.3	No	6 (?)	Flush with ground surface, filled
543864	Monitor well	Sealed	Sealed	4951389.8	492256.2	--	--	GPS location places well on north side Building 610; local farmer not aware of well in reported location; presumed sealed like 543862/63
575906	Monitor well	Sealed	Sealed	4951353.8	492331.3	No	2	2" well with 6" casing
635497	Monitor well	Sealed	Sealed	4951353.7	492357.5	No	2	2" well with 6" casing
635498	Monitor well	Sealed	Sealed	4951371.4	492358.2	No	2	2" well with 6" casing
635499	Monitor well	Sealed	Sealed	4951354.4	492344.1	No	2	2" well with 6" casing
H48777	Other	Active	--	4951878.3	490898.3	--	--	Not present; possible mislocate in database
769796	Monitor well (MW-B1-001)	Active	Active	4953061.6	491162.4	Yes	2	Active monitoring well
769493	Monitor well (MW-C2-002)	Active	Active	4951681.5	491799.5	Yes	2	Active monitoring well
769489	Monitor well (MW-C2-202)	Active	Active	4951682.1	491791.0	Yes	2	Active monitoring well
769490	Monitor well (MW-D3-007)	Active	Active	4950768.6	492911.4	Yes	2	Active monitoring well
769488	Monitor well (MW-E2-009)	Active	Active	4950761.8	491786.0	Yes	2	Active monitoring well
770718	Monitor well (MW-E2-012)	Active	Active	4950337.9	492396.1	Yes	2	Active monitoring well
769483	Monitor well (MW-E2-209)	Active	Active	4950761.5	491780.5	Yes	2	Active monitoring well
769429	Monitor well (MW-E2-305)	Active	Active	4949983.8	492402.3	Yes	2	Active monitoring well
769482	Monitor well (PW-C2-202)	Active	Active	4951681.4	491808.0	Yes	6	Active monitoring well
Unknown well at SOC 6	Not reported	NA	Active	4949997.8	491965.9	No	4	Located in well house; Well used to supplied water for past ag research







Notes:

¹ For wells located: northing and easting measured relative to Universal Transverse Mercator (UTM) Coordinates in meters (horizontal datum NAD 83(1996)). For wells not located, coordinates from database

"--" Does not apply or information not available



Background: 2008 Aerials Express.

-  Umore Mining Area (UMA)
-  Umore Park Boundary
-  Existing well (active)
-  Sealed well
-  Not found, presumed active
-  Not found, presumed sealed

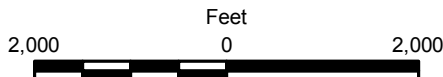


Figure 1

EXISTING, SEALED AND UNKNOWN WELLS

Phase II Investigation Report
Sites of Concern 1-3 and 6-8
Umore Mining Area
Dakota County, MN

Source: Dakota County, James R. Hill, Barr, HKGi.
Well data is from the Dakota County Well and Water Management System (WELLMAN) and from Barr.



**Appendix D
Well Survey Photolog**

***Umore Park Property
Dakota County, MN
July 1, 2009***



Well 185278



Well 207605



Mapped Location of Well 207606



Well 207607



Pump House for Well 207608



Well 207615



Well 207615



Pump House for Well 207616



Well 207616



Pump House for Well 207617



Well 207617



Well 207617



Mapped Location of Well 208400



Well 208402



Well 543862



Well 543863



Well 575906



Well 635497



Well 635498



Well 635499



Mapped Location of Well H48777



Unknown well at SOC 6

Minnesota Unique Well No.

185278

County Dakota
 Quad Coales
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 04/27/2006
 Update Date 04/27/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name U OF M ROSEMOUNT #2		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		310 ft.	310 ft.	10/29/1982
114	19 W 4 BCDCBC	Elevation Method topographic map (+/- 5 feet)		
Elevation Method		Drilling Method Non-specified Rotary		
Geological Material		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
SAND & GRAVEL	COLOR BROWN	--	From Ft. to Ft.	
LIMEROCK	COLOR YELLOW	Use Irrigation		
	HARDNESS MEDIUM	Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	HARDNESS HARD	No Above/Below 1 ft.		
	FROM 0 TO 142	Casing Diameter	Weight	Hole Diameter
		10 in. to 145 ft.	40.48 lbs./ft.	10 in. to 145 ft.
Open Hole from 145 ft. to 310 ft.				
Screen NO Make Type				
Diameter Slot/Gauze Length Set Between				
Static Water Level				
67 ft. from Land surface Date Measured 10/29/1982				
PUMPING LEVEL (below land surface)				
80 ft. after 24 hrs. pumping 300 g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS				
WELL USE=DOMESTIC & IRRIGATION				
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Grout Material: Bentonite from to 145 ft.				
Located by: Minnesota Geological Survey Method: Digitization (Screen) - Map (1:24,000)				
Unique Number Verification: Information from owner Input Date: 04/27/2006				
System: UTM - Nad83, Zone15, Meters X: 491000 Y: 4950815				
Nearest Known Source of Contamination				
2000 feet N direction Barnyard type				
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed 10/29/1982				
Manufacturer's name GRUNDFOS Model number C8244J HP 30 Volts 230				
Length of drop Pipe 105 ft. Capacity 300 g.p.m				
Type Submersible Material Galvanized				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification				
Maher Well Co. 19301 MANN, G.				
License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock Prairie Du Chien Group		Aquifer Prairie Du Chien Group		
Last Strat Prairie Du Chien Group		Depth to Bedrock 142 ft.		
County Well Index Online Report		185278		Printed 10/26/2009
				HE-01205-07

Minnesota Unique Well No.

207606

County Dakota
 Quad Coales
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/19/1990
 Update Date 02/23/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name DAIRY FARM		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		429 ft.	429 ft.	
114	19 W 4 BBACBB	Elevation Method topographic map (+/- 5 feet)		
Geological Material TOPSOIL SANDY CLAY HARDPAN SANDY CLAY SANDY CLAY FINE ROTTEN SANDROCK FINE DIRTY SAND AND GRAVEL DOLOMITE DOLOMITE STREAKS OF SAND DOLOMITE DOLOMITE (TRACES OF SAND) JORDAN SANDROCK		Color BLACK BLUE BROWN BROWN	Hardness 0 2 5 102 125 135 153 162 263 325 355 366	From To 2 2 5 5 102 102 125 125 135 153 153 162 162 263 263 325 325 355 355 366 366 429
Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Abandoned <input type="checkbox"/> Status Sealed <input type="checkbox"/>				
Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter Weight Hole Diameter		
Open Hole from ft. to ft.				
Screen Make Type				
Diameter		Slot/Gauze	Length	Set Between
Static Water Level ft. from Date Measured				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS WELL SEALED 10-09-1996 BY 19521. ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY. Located by: Minnesota Geological Survey Method: Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification: N/A Input Date: 01/01/1990 System: UTM - Nad83, Zone15, Meters X: 490976 Y: 4951431		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination __feet __direction __type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material				
First Bedrock Prairie Du Chien Group Aquifer Last Strat Jordan Depth to Bedrock 162 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller				
County Well Index Online Report		207606		Printed 10/26/2009 HE-01205-07

Minnesota Unique Well No.

207607

County Dakota
 Quad Coales
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/19/1990
 Update Date 07/30/2009
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name WORKMAN'S CHANGE HOUSE</p> <p>Township Range Dir Section Subsections Elevation 945 ft.</p> <p>114 19 W 4 AAACBC Elevation Method topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>170 ft.</td> <td>170 ft.</td> <td></td> </tr> <tr> <td colspan="3">Drilling Method --</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	170 ft.	170 ft.		Drilling Method --																																																							
Well Depth	Depth Completed	Date Well Completed																																																													
170 ft.	170 ft.																																																														
Drilling Method --																																																															
<p>Well Address</p> <p>ROSEMOUNT MN 55068</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:10%;">Color</td> <td style="width:10%;">Hardness</td> <td style="width:10%;">From</td> <td style="width:10%;">To</td> </tr> <tr> <td>CLAY</td> <td></td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>GRAVEL</td> <td></td> <td></td> <td>5</td> <td>35</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>35</td> <td>130</td> </tr> <tr> <td>CLAY, SAND, HARDPAN AND GRAVEL</td> <td>RED</td> <td></td> <td>130</td> <td>150</td> </tr> <tr> <td>PRAIRIE DU CHIEN LIMESTONE</td> <td></td> <td></td> <td>150</td> <td>170</td> </tr> </table>		Color	Hardness	From	To	CLAY			0	5	GRAVEL			5	35	CLAY	BLUE		35	130	CLAY, SAND, HARDPAN AND GRAVEL	RED		130	150	PRAIRIE DU CHIEN LIMESTONE			150	170	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>--</td> <td>From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Public Supply/non-community PWS ID Source</td> </tr> <tr> <td>Casing Type</td> <td>Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter</td> <td>Weight Hole Diameter</td> </tr> <tr> <td colspan="2">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen</td> <td>Make Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze Length Set Between</td> </tr> <tr> <td colspan="2">Static Water Level</td> </tr> <tr> <td colspan="2">ft. from Date Measured</td> </tr> <tr> <td colspan="2">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="2">ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="2">Well Head Completion</td> </tr> <tr> <td colspan="2">Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	--	From Ft. to Ft.	Use Public Supply/non-community PWS ID Source		Casing Type	Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.	Casing Diameter	Weight Hole Diameter	Open Hole from ft. to ft.		Screen	Make Type	Diameter	Slot/Gauze Length Set Between	Static Water Level		ft. from Date Measured		PUMPING LEVEL (below land surface)		ft. after hrs. pumping g.p.m.		Well Head Completion		Pitless adapter manufacturer Model		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)	
	Color	Hardness	From	To																																																											
CLAY			0	5																																																											
GRAVEL			5	35																																																											
CLAY	BLUE		35	130																																																											
CLAY, SAND, HARDPAN AND GRAVEL	RED		130	150																																																											
PRAIRIE DU CHIEN LIMESTONE			150	170																																																											
Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																														
--	From Ft. to Ft.																																																														
Use Public Supply/non-community PWS ID Source																																																															
Casing Type	Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																																														
Casing Diameter	Weight Hole Diameter																																																														
Open Hole from ft. to ft.																																																															
Screen	Make Type																																																														
Diameter	Slot/Gauze Length Set Between																																																														
Static Water Level																																																															
ft. from Date Measured																																																															
PUMPING LEVEL (below land surface)																																																															
ft. after hrs. pumping g.p.m.																																																															
Well Head Completion																																																															
Pitless adapter manufacturer Model																																																															
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																																															
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																															
<p>REMARKS</p> <p>AT STATION SERVICE CENTER.</p> <p>Located by: Minnesota Geological Survey Method: Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification: N/A Input Date: 01/01/1990</p> <p>System: UTM - Nad83, Zone15, Meters X: 492208 Y: 4951411</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information</td> <td style="width:50%;">Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="2">_feet _direction _type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="2">Manufacturer's name Model number HP Volts</td> </tr> <tr> <td colspan="2">Length of drop Pipe ft. Capacity g.p.m Type Material</td> </tr> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification</td> </tr> <tr> <td colspan="2">License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Grouting Information	Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Nearest Known Source of Contamination		_feet _direction _type		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number HP Volts		Length of drop Pipe ft. Capacity g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		<input type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification		License Business Name Lic. Or Reg. No. Name of Driller																																							
Grouting Information	Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																														
Nearest Known Source of Contamination																																																															
_feet _direction _type																																																															
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																															
Pump <input type="checkbox"/> Not Installed Date Installed																																																															
Manufacturer's name Model number HP Volts																																																															
Length of drop Pipe ft. Capacity g.p.m Type Material																																																															
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes																																																															
<input type="checkbox"/> No																																																															
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																															
Well Contractor Certification																																																															
License Business Name Lic. Or Reg. No. Name of Driller																																																															
<p>First Bedrock Prairie Du Chien Group Aquifer</p> <p>Last Strat Prairie Du Chien Group Depth to Bedrock 150 ft.</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">County Well Index Online Report</td> <td style="width:25%;">207607</td> <td style="width:25%;">Printed 10/26/2009</td> </tr> <tr> <td></td> <td></td> <td>HE-01205-07</td> </tr> </table>	County Well Index Online Report	207607	Printed 10/26/2009			HE-01205-07																																																								
County Well Index Online Report	207607	Printed 10/26/2009																																																													
		HE-01205-07																																																													

Minnesota Unique Well No.

207608

County Dakota
 Quad Coales
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/19/1990
 Update Date 02/23/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name AG. EXPERIMENT STATION Township Range Dir Section Subsections Elevation 948 ft. 114 19 W 4 DACADD Elevation Method topographic map (+/- 5 feet)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td colspan="2">Date Well Completed</td> </tr> <tr> <td>415 ft.</td> <td>415 ft.</td> <td colspan="2">11/30/1960</td> </tr> <tr> <td colspan="4">Drilling Method Cable Tool</td> </tr> </table>			Well Depth	Depth Completed	Date Well Completed		415 ft.	415 ft.	11/30/1960		Drilling Method Cable Tool																																																																											
Well Depth	Depth Completed	Date Well Completed																																																																																						
415 ft.	415 ft.	11/30/1960																																																																																						
Drilling Method Cable Tool																																																																																								
Geological Material TOPSOIL SAND SANDSTONE SAND AND GRAVEL SHALE AND GRAVEL SAND AND GRAVEL PRAIRIE DU CHIEN DOLOMITE JORDAN SANDROCK		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Drilling Fluid</td> <td colspan="3">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>--</td> <td colspan="3">From Ft. to Ft.</td> </tr> <tr> <td colspan="4">Use Public Supply/non-community PWS ID Source</td> </tr> <tr> <td>Casing Type</td> <td>Steel (black or low carbon)</td> <td>Joint No Information</td> <td>Drive Shoe? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="4"><input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td colspan="2">Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>10 in. to</td> <td>148 ft.</td> <td>lbs./ft.</td> <td>6 in. to 415 ft.</td> </tr> <tr> <td>6 in. to</td> <td>355 ft.</td> <td>lbs./ft.</td> <td></td> </tr> <tr> <td colspan="4">Open Hole from 355 ft. to 415 ft.</td> </tr> <tr> <td>Screen NO</td> <td>Make</td> <td colspan="2">Type</td> </tr> <tr> <td colspan="4"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> </td> </tr> <tr> <td colspan="4">Static Water Level</td> </tr> <tr> <td colspan="4">68 ft. from Land surface Date Measured 11/30/1960</td> </tr> <tr> <td colspan="4">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="4">77 ft. after hrs. pumping 100 g.p.m.</td> </tr> <tr> <td colspan="4">Well Head Completion</td> </tr> <tr> <td colspan="4">Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="4"><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="4"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>			Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			--	From Ft. to Ft.			Use Public Supply/non-community PWS ID Source				Casing Type	Steel (black or low carbon)	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes	<input type="checkbox"/> No Above/Below 0 ft.				Casing Diameter		Weight	Hole Diameter	10 in. to	148 ft.	lbs./ft.	6 in. to 415 ft.	6 in. to	355 ft.	lbs./ft.		Open Hole from 355 ft. to 415 ft.				Screen NO	Make	Type		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				Diameter	Slot/Gauze	Length	Set Between					Static Water Level				68 ft. from Land surface Date Measured 11/30/1960				PUMPING LEVEL (below land surface)				77 ft. after hrs. pumping 100 g.p.m.				Well Head Completion				Pitless adapter manufacturer Model				<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																					
		--	From Ft. to Ft.																																																																																					
		Use Public Supply/non-community PWS ID Source																																																																																						
		Casing Type	Steel (black or low carbon)	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes																																																																																			
		<input type="checkbox"/> No Above/Below 0 ft.																																																																																						
		Casing Diameter		Weight	Hole Diameter																																																																																			
		10 in. to	148 ft.	lbs./ft.	6 in. to 415 ft.																																																																																			
		6 in. to	355 ft.	lbs./ft.																																																																																				
		Open Hole from 355 ft. to 415 ft.																																																																																						
Screen NO	Make	Type																																																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				Diameter	Slot/Gauze	Length	Set Between																																																																																	
Diameter	Slot/Gauze	Length	Set Between																																																																																					
Static Water Level																																																																																								
68 ft. from Land surface Date Measured 11/30/1960																																																																																								
PUMPING LEVEL (below land surface)																																																																																								
77 ft. after hrs. pumping 100 g.p.m.																																																																																								
Well Head Completion																																																																																								
Pitless adapter manufacturer Model																																																																																								
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																																																																								
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																																								
REMARKS WELL DRILLED BY ANDERSON WELL CO. FROM ROCHESTER. Located by: United States Geological Survey Method: Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification: N/A Input Date: 01/01/1990 System: UTM - Nad83, Zone15, Meters X: 491962 Y: 4950085		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4">Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="4">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="4">_feet _direction _type</td> </tr> <tr> <td colspan="4">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="4">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="4">Manufacturer's name Model number __ HP 0_ Volts</td> </tr> <tr> <td colspan="4">Length of drop Pipe _ft. Capacity _g.p.m Type Material</td> </tr> <tr> <td colspan="4">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="4">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="4">Well Contractor Certification</td> </tr> <tr> <td colspan="4">License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>			Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				Nearest Known Source of Contamination				_feet _direction _type				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				Pump <input type="checkbox"/> Not Installed Date Installed				Manufacturer's name Model number __ HP 0_ Volts				Length of drop Pipe _ft. Capacity _g.p.m Type Material				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				Well Contractor Certification				License Business Name Lic. Or Reg. No. Name of Driller																																											
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																								
Nearest Known Source of Contamination																																																																																								
_feet _direction _type																																																																																								
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																								
Pump <input type="checkbox"/> Not Installed Date Installed																																																																																								
Manufacturer's name Model number __ HP 0_ Volts																																																																																								
Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																																																								
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																								
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																								
Well Contractor Certification																																																																																								
License Business Name Lic. Or Reg. No. Name of Driller																																																																																								
First Bedrock Prairie Du Chien Group Aquifer Jordan Last Strat Jordan Depth to Bedrock 148 ft.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">County Well Index Online Report</td> <td style="width:33%; text-align: center;">207608</td> <td colspan="2" style="text-align: right;">Printed 10/26/2009 HE-01205-07</td> </tr> </table>			County Well Index Online Report	207608	Printed 10/26/2009 HE-01205-07																																																																																	
County Well Index Online Report	207608	Printed 10/26/2009 HE-01205-07																																																																																						

Minnesota Unique Well No.

208400

County Dakota
Quad Coales
Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 03/30/1990
Update Date 03/24/2006
Received Date

Minnesota Statutes Chapter 103I

Well Name AG. EXP. STATION ROSEMOU		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		153 ft.	153 ft.	02/00/1959
115	19 W 28 DCCCBB	Elevation Method topographic map (+/- 5 feet)		
Drilling Method --		Drilling Fluid --		
Well Hydrofractured?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
From Ft. to Ft.		Use		
Casing Type Joint No Information Drive Shoe?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
No Above/Below 0 ft.		Casing Diameter Weight Hole Diameter		
6 in. to 107 ft.		lbs./ft.		
Open Hole from 107 ft. to 153 ft.		Screen NO Make Type		
Diameter Slot/Gauze Length Set Between				
Static Water Level		98 ft. from Land surface Date Measured 02/00/1959		
PUMPING LEVEL (below land surface)		98 ft. after 6 hrs. pumping 30 g.p.m.		
Well Head Completion		Pitless adapter manufacturer Model		
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located by: Minnesota Geological Survey		Method: Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number Verification: Information from owner		Input Date: 01/01/1990		
System: UTM - Nad83, Zone15, Meters		X: 491622 Y: 4953262		
Nearest Known Source of Contamination		_feet _direction _type		
Well disinfected upon completion?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Pump <input type="checkbox"/> Not Installed		Date Installed		
Manufacturer's name		Model number __ HP 0 Volts		
Length of drop Pipe _ft.		Capacity _g.p.m Type Material		
Abandoned Wells Does property have any not in use and not sealed well(s)?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance Was a variance granted from the MDH for this well?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well Contractor Certification		Corcoran Well Co. 19163		
First Bedrock St.Peter		Aquifer St.Peter-Prairie Du Chien		
Last Strat Prairie Du Chien Group		Depth to Bedrock 93 ft.		
License Business Name		Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		208400		Printed 10/26/2009 HE-01205-07

Minnesota Unique Well No.

543862

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/28/2008
 Update Date 10/28/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-1 Township Range Dir Section Subsections Elevation ft. 114 19 W 3 BBD Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>65 ft.</td> <td>63 ft.</td> <td>04/11/1994</td> </tr> <tr> <td colspan="3">Drilling Method Auger (non-specified)</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	65 ft.	63 ft.	04/11/1994	Drilling Method Auger (non-specified)																																																																																										
Well Depth	Depth Completed	Date Well Completed																																																																																																
65 ft.	63 ft.	04/11/1994																																																																																																
Drilling Method Auger (non-specified)																																																																																																		
Well Address 1605 160TH ST ROSEMOUNT MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>FILL DENSE</td> <td></td> <td></td> <td>0</td> <td>4</td> </tr> <tr> <td>F-C SAND MED DENSE</td> <td>BROWN</td> <td></td> <td>4</td> <td>19</td> </tr> <tr> <td>F-M SAND MED DENSE</td> <td>BROWN</td> <td></td> <td>19</td> <td>29</td> </tr> <tr> <td>F-M SAND W/ GRAVEL MED DENSE</td> <td>BROWN</td> <td></td> <td>29</td> <td>34</td> </tr> <tr> <td>M-C SAND W/ GRAVEL M DENSE</td> <td>BROWN</td> <td></td> <td>34</td> <td>39</td> </tr> <tr> <td>F-M SAND LITTLE GRAVEL M DENSE</td> <td>BROWN</td> <td></td> <td>39</td> <td>65</td> </tr> </tbody> </table>		Color	Hardness	From	To	FILL DENSE			0	4	F-C SAND MED DENSE	BROWN		4	19	F-M SAND MED DENSE	BROWN		19	29	F-M SAND W/ GRAVEL MED DENSE	BROWN		29	34	M-C SAND W/ GRAVEL M DENSE	BROWN		34	39	F-M SAND LITTLE GRAVEL M DENSE	BROWN		39	65	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>--</td> <td>From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Monitor well</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td style="width:33%;">Casing Diameter</td> <td style="width:33%;">Weight</td> <td style="width:33%;">Hole Diameter</td> </tr> <tr> <td>2 in. to 53 ft.</td> <td>lbs./ft.</td> <td>8 in. to 65 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make JOHNSON Type stainless steel</td> </tr> <tr> <td style="width:25%;">Diameter</td> <td style="width:25%;">Slot/Gauze</td> <td style="width:25%;">Length</td> <td style="width:25%;">Set Between</td> </tr> <tr> <td>2</td> <td>10</td> <td>10</td> <td>53 ft. and 63 ft.</td> </tr> <tr> <td colspan="4">Static Water Level</td> </tr> <tr> <td colspan="4">56 ft. from Land surface Date Measured 04/11/1994</td> </tr> <tr> <td colspan="4">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="4">ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="4">Well Head Completion</td> </tr> <tr> <td colspan="4">Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="4"><input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="4"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	--	From Ft. to Ft.	Use Monitor well		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes		<input type="checkbox"/> No Above/Below ft.		Casing Diameter	Weight	Hole Diameter	2 in. to 53 ft.	lbs./ft.	8 in. to 65 ft.	Open Hole from ft. to ft.			Screen YES Make JOHNSON Type stainless steel			Diameter	Slot/Gauze	Length	Set Between	2	10	10	53 ft. and 63 ft.	Static Water Level				56 ft. from Land surface Date Measured 04/11/1994				PUMPING LEVEL (below land surface)				ft. after hrs. pumping g.p.m.				Well Head Completion				Pitless adapter manufacturer Model				<input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
	Color	Hardness	From	To																																																																																														
FILL DENSE			0	4																																																																																														
F-C SAND MED DENSE	BROWN		4	19																																																																																														
F-M SAND MED DENSE	BROWN		19	29																																																																																														
F-M SAND W/ GRAVEL MED DENSE	BROWN		29	34																																																																																														
M-C SAND W/ GRAVEL M DENSE	BROWN		34	39																																																																																														
F-M SAND LITTLE GRAVEL M DENSE	BROWN		39	65																																																																																														
Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																	
--	From Ft. to Ft.																																																																																																	
Use Monitor well																																																																																																		
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes																																																																																																		
<input type="checkbox"/> No Above/Below ft.																																																																																																		
Casing Diameter	Weight	Hole Diameter																																																																																																
2 in. to 53 ft.	lbs./ft.	8 in. to 65 ft.																																																																																																
Open Hole from ft. to ft.																																																																																																		
Screen YES Make JOHNSON Type stainless steel																																																																																																		
Diameter	Slot/Gauze	Length	Set Between																																																																																															
2	10	10	53 ft. and 63 ft.																																																																																															
Static Water Level																																																																																																		
56 ft. from Land surface Date Measured 04/11/1994																																																																																																		
PUMPING LEVEL (below land surface)																																																																																																		
ft. after hrs. pumping g.p.m.																																																																																																		
Well Head Completion																																																																																																		
Pitless adapter manufacturer Model																																																																																																		
<input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade																																																																																																		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																																																		
NO REMARKS	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information</td> <td style="width:50%;">Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Grout Material: Neat Cement from to 48 ft.</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="2">__feet __direction __type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="2">Manufacturer's name Model number HP Volts</td> </tr> <tr> <td colspan="2">Length of drop Pipe ft. Capacity g.p.m Type Material</td> </tr> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification</td> </tr> <tr> <td style="width:33%;">First Bedrock</td> <td style="width:33%;">Aquifer</td> <td style="width:33%;">Dpra</td> <td style="width:33%;">M0054</td> <td style="width:33%;">BURANDT, P</td> </tr> <tr> <td>Last Strat</td> <td>Depth to Bedrock ft.</td> <td>License Business Name</td> <td>Lic. Or Reg. No.</td> <td>Name of Driller</td> </tr> </table>	Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Neat Cement from to 48 ft.		Nearest Known Source of Contamination		__feet __direction __type		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number HP Volts		Length of drop Pipe ft. Capacity g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification		First Bedrock	Aquifer	Dpra	M0054	BURANDT, P	Last Strat	Depth to Bedrock ft.	License Business Name	Lic. Or Reg. No.	Name of Driller																																																															
Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																	
Grout Material: Neat Cement from to 48 ft.																																																																																																		
Nearest Known Source of Contamination																																																																																																		
__feet __direction __type																																																																																																		
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																		
Pump <input type="checkbox"/> Not Installed Date Installed																																																																																																		
Manufacturer's name Model number HP Volts																																																																																																		
Length of drop Pipe ft. Capacity g.p.m Type Material																																																																																																		
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes																																																																																																		
<input checked="" type="checkbox"/> No																																																																																																		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																		
Well Contractor Certification																																																																																																		
First Bedrock	Aquifer	Dpra	M0054	BURANDT, P																																																																																														
Last Strat	Depth to Bedrock ft.	License Business Name	Lic. Or Reg. No.	Name of Driller																																																																																														
County Well Index Online Report	543862	Printed 10/26/2009 HE-01205-07																																																																																																

Minnesota Unique Well No.

543863

County **Dakota**
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/28/2008
 Update Date 10/28/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-2 Township Range Dir Section Subsections Elevation ft. 114 19 W 3 BBD Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>65 ft.</td> <td>63 ft.</td> <td>04/12/1994</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> <tr> <td>Drilling Fluid</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>--</td> <td colspan="2">From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Monitor well</td> </tr> <tr> <td>Casing Type Steel (black or low carbon)</td> <td>Joint No Information</td> <td>Drive Shoe? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>2 in. to 53 ft.</td> <td>lbs./ft.</td> <td>8 in. to 65 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make JOHNSON</td> <td>Type stainless steel</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> <tr> <td>2</td> <td>10</td> <td>10</td> <td>53 ft. and 63 ft.</td> </tr> <tr> <td colspan="3">Static Water Level</td> </tr> <tr> <td colspan="3">56 ft. from Land surface Date Measured 04/12/1994</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="3">ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion</td> </tr> <tr> <td colspan="3">Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="3"><input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	65 ft.	63 ft.	04/12/1994	Drilling Method Non-specified Rotary			Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		--	From Ft. to Ft.		Use Monitor well			Casing Type Steel (black or low carbon)	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes	<input type="checkbox"/> No Above/Below ft.			Casing Diameter	Weight	Hole Diameter	2 in. to 53 ft.	lbs./ft.	8 in. to 65 ft.	Open Hole from ft. to ft.			Screen YES	Make JOHNSON	Type stainless steel	Diameter	Slot/Gauze	Length	Set Between	2	10	10	53 ft. and 63 ft.	Static Water Level			56 ft. from Land surface Date Measured 04/12/1994			PUMPING LEVEL (below land surface)			ft. after hrs. pumping g.p.m.			Well Head Completion			Pitless adapter manufacturer Model			<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade			<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Well Depth	Depth Completed	Date Well Completed																																																																			
65 ft.	63 ft.	04/12/1994																																																																			
Drilling Method Non-specified Rotary																																																																					
Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
--	From Ft. to Ft.																																																																				
Use Monitor well																																																																					
Casing Type Steel (black or low carbon)	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes																																																																			
<input type="checkbox"/> No Above/Below ft.																																																																					
Casing Diameter	Weight	Hole Diameter																																																																			
2 in. to 53 ft.	lbs./ft.	8 in. to 65 ft.																																																																			
Open Hole from ft. to ft.																																																																					
Screen YES	Make JOHNSON	Type stainless steel																																																																			
Diameter	Slot/Gauze	Length	Set Between																																																																		
2	10	10	53 ft. and 63 ft.																																																																		
Static Water Level																																																																					
56 ft. from Land surface Date Measured 04/12/1994																																																																					
PUMPING LEVEL (below land surface)																																																																					
ft. after hrs. pumping g.p.m.																																																																					
Well Head Completion																																																																					
Pitless adapter manufacturer Model																																																																					
<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade																																																																					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																					
NO REMARKS	<table style="width:100%; border-collapse: collapse;"> <tr> <td>Grouting Information</td> <td>Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Grout Material: Neat Cement</td> <td>from to 48 ft.</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="2">__feet __direction __type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="2">Manufacturer's name Model number HP Volts</td> </tr> <tr> <td colspan="2">Length of drop Pipe ft. Capacity g.p.m Type Material</td> </tr> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification</td> </tr> <tr> <td>First Bedrock</td> <td>Aquifer</td> </tr> <tr> <td>Last Strat</td> <td>Depth to Bedrock ft.</td> </tr> <tr> <td colspan="2"> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"><u>Dpra</u></td> <td style="width:33%;"><u>M0054</u></td> <td style="width:33%;"><u>BURANDT , P</u></td> </tr> <tr> <td>License Business Name</td> <td>Lic. Or Reg. No.</td> <td>Name of Driller</td> </tr> </table> </td> </tr> </table>	Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Neat Cement	from to 48 ft.	Nearest Known Source of Contamination		__feet __direction __type		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number HP Volts		Length of drop Pipe ft. Capacity g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		<input type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification		First Bedrock	Aquifer	Last Strat	Depth to Bedrock ft.	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"><u>Dpra</u></td> <td style="width:33%;"><u>M0054</u></td> <td style="width:33%;"><u>BURANDT , P</u></td> </tr> <tr> <td>License Business Name</td> <td>Lic. Or Reg. No.</td> <td>Name of Driller</td> </tr> </table>		<u>Dpra</u>	<u>M0054</u>	<u>BURANDT , P</u>	License Business Name	Lic. Or Reg. No.	Name of Driller																																
Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
Grout Material: Neat Cement	from to 48 ft.																																																																				
Nearest Known Source of Contamination																																																																					
__feet __direction __type																																																																					
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																					
Pump <input type="checkbox"/> Not Installed Date Installed																																																																					
Manufacturer's name Model number HP Volts																																																																					
Length of drop Pipe ft. Capacity g.p.m Type Material																																																																					
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes																																																																					
<input type="checkbox"/> No																																																																					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																					
Well Contractor Certification																																																																					
First Bedrock	Aquifer																																																																				
Last Strat	Depth to Bedrock ft.																																																																				
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"><u>Dpra</u></td> <td style="width:33%;"><u>M0054</u></td> <td style="width:33%;"><u>BURANDT , P</u></td> </tr> <tr> <td>License Business Name</td> <td>Lic. Or Reg. No.</td> <td>Name of Driller</td> </tr> </table>		<u>Dpra</u>	<u>M0054</u>	<u>BURANDT , P</u>	License Business Name	Lic. Or Reg. No.	Name of Driller																																																														
<u>Dpra</u>	<u>M0054</u>	<u>BURANDT , P</u>																																																																			
License Business Name	Lic. Or Reg. No.	Name of Driller																																																																			
County Well Index Online Report	543863	Printed 10/26/2009 HE-01205-07																																																																			

Minnesota Unique Well No.

543864

County **Dakota**
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/28/2008
 Update Date 10/28/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-3 Township Range Dir Section Subsections Elevation ft. 114 19 W 3 BBD Elevation Method	Well Depth 65 ft. Depth Completed 63 ft. Date Well Completed 04/13/1994 Drilling Method Auger (non-specified)
Well Address 1605 160TH ST W ROSEMOUNT MN Geological Material M-C SAND M DENSE F-M SAND W/ GRAVEL M DENSE F-M SAND M DENSE M-C SAND W/ GRAEL M DENSE F-M SAND M DENSE	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. Use Monitor well Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft. Casing Diameter Weight Hole Diameter 2 in. to 53 ft. lbs./ft. 8 in. to 65 ft. Open Hole from ft. to ft. Screen YES Make JOHNSON Type stainless steel Diameter Slot/Gauze Length Set Between 0 10 10 53 ft. and 63 ft. Static Water Level 56 ft. from Land surface Date Measured 04/13/1994 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 48 ft. Nearest Known Source of Contamination __feet __direction __type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material
First Bedrock Last Strat	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Dpra M0054 BURANDT, P License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	543864
Printed 10/26/2009 HE-01205-07	

Minnesota Unique Well No.

575906

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 10/28/2008
 Update Date 10/28/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-1		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation ft.		63 ft.	63 ft.	12/02/1995
114 19 W 4 AAC Elevation Method		Drilling Method Auger (non-specified)		
Well Address 1605 160TH ST W ROSEMOUNT MN		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Geological Material		--	From Ft. to Ft.	
	Color	Use Monitor well		
	Hardness	Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes		
	From To	<input checked="" type="checkbox"/> No Above/Below ft.		
GRAVELY SAND / COBBLES COARSE	BROWN	0	4	
SAND / GRAVEL MED COARSE	LT. BRN	4	48	
SILTY SANDY CLAY	LT. BRN	48	56	
SILTY SAND SAND	LT. BRN	56	63	
		Casing Diameter	Weight	Hole Diameter
		2 in. to 53 ft.	lbs./ft.	8.25 in. to 63 ft.
		Open Hole from ft. to ft.		
		Screen YES Make TIMCO Type plastic		
		Diameter	Slot/Gauze	Length Set Between
		2	10	10 53 ft. and 63 ft.
		Static Water Level		
		55 ft. from Land surface Date Measured 12/02/1995		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Bentonite from 49 to 51 ft. 2 bags		
		Grout Material: Neat Cement from to 49 ft. 30 bags		
		Nearest Known Source of Contamination		
		__feet __direction __type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP __ Volts		
		Length of drop Pipe __ft. Capacity __g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		
		<input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock	Aquifer	Thein Well Co. 34050 THEIN, M		
Last Strat	Depth to Bedrock ft.	License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		575906		Printed 10/26/2009 HE-01205-07

Minnesota Unique Well No.

635497

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 05/29/2001
 Update Date 10/28/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-2 Township Range Dir Section Subsections Elevation ft. 114 19 W 4 AAD Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>50 ft.</td> <td>50 ft.</td> <td>11/29/1999</td> </tr> <tr> <td colspan="3">Drilling Method Auger (non-specified)</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	50 ft.	50 ft.	11/29/1999	Drilling Method Auger (non-specified)																																																																																					
Well Depth	Depth Completed	Date Well Completed																																																																																											
50 ft.	50 ft.	11/29/1999																																																																																											
Drilling Method Auger (non-specified)																																																																																													
Well Address 1605 160TH ST W ROSEMOUNT MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL, SAND & ROCKS</td> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>3</td> </tr> <tr> <td>SAND GRAVEL</td> <td>BROWN</td> <td>MEDIUM</td> <td>3</td> <td>8</td> </tr> <tr> <td>SAND GRAVEL MED COARSE</td> <td>BROWN</td> <td></td> <td>8</td> <td>35</td> </tr> <tr> <td>ROCKY SAND GRAVEL M COARSE</td> <td>BROWN</td> <td></td> <td>35</td> <td>43</td> </tr> <tr> <td>WET GRAVELY SAND M COARSE</td> <td>BROWN</td> <td></td> <td>43</td> <td>50</td> </tr> </tbody> </table>		Color	Hardness	From	To	TOP SOIL, SAND & ROCKS	BROWN	MEDIUM	0	3	SAND GRAVEL	BROWN	MEDIUM	3	8	SAND GRAVEL MED COARSE	BROWN		8	35	ROCKY SAND GRAVEL M COARSE	BROWN		35	43	WET GRAVELY SAND M COARSE	BROWN		43	50	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>--</td> <td>From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Abandoned Status Sealed</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td style="width:33%;">Casing Diameter</td> <td style="width:33%;">Weight</td> <td style="width:33%;">Hole Diameter</td> </tr> <tr> <td>2 in. to 40 ft.</td> <td>3.65 lbs./ft.</td> <td>4.25 in. to 50 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make TIMCO Type plastic</td> </tr> <tr> <td style="width:25%;">Diameter</td> <td style="width:25%;">Slot/Gauze</td> <td style="width:25%;">Length</td> <td style="width:25%;">Set Between</td> </tr> <tr> <td>2</td> <td>10</td> <td>10</td> <td>40 ft. and 50 ft.</td> </tr> <tr> <td colspan="4">Static Water Level</td> </tr> <tr> <td colspan="4">43 ft. from Land surface Date Measured 11/29/1999</td> </tr> <tr> <td colspan="4">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="4">ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="4">Well Head Completion</td> </tr> <tr> <td colspan="4">Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="4"><input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="4"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	--	From Ft. to Ft.	Use Abandoned Status Sealed		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No Above/Below ft.		Casing Diameter	Weight	Hole Diameter	2 in. to 40 ft.	3.65 lbs./ft.	4.25 in. to 50 ft.	Open Hole from ft. to ft.			Screen YES Make TIMCO Type plastic			Diameter	Slot/Gauze	Length	Set Between	2	10	10	40 ft. and 50 ft.	Static Water Level				43 ft. from Land surface Date Measured 11/29/1999				PUMPING LEVEL (below land surface)				ft. after hrs. pumping g.p.m.				Well Head Completion				Pitless adapter manufacturer Model				<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
	Color	Hardness	From	To																																																																																									
TOP SOIL, SAND & ROCKS	BROWN	MEDIUM	0	3																																																																																									
SAND GRAVEL	BROWN	MEDIUM	3	8																																																																																									
SAND GRAVEL MED COARSE	BROWN		8	35																																																																																									
ROCKY SAND GRAVEL M COARSE	BROWN		35	43																																																																																									
WET GRAVELY SAND M COARSE	BROWN		43	50																																																																																									
Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																												
--	From Ft. to Ft.																																																																																												
Use Abandoned Status Sealed																																																																																													
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes																																																																																													
<input checked="" type="checkbox"/> No Above/Below ft.																																																																																													
Casing Diameter	Weight	Hole Diameter																																																																																											
2 in. to 40 ft.	3.65 lbs./ft.	4.25 in. to 50 ft.																																																																																											
Open Hole from ft. to ft.																																																																																													
Screen YES Make TIMCO Type plastic																																																																																													
Diameter	Slot/Gauze	Length	Set Between																																																																																										
2	10	10	40 ft. and 50 ft.																																																																																										
Static Water Level																																																																																													
43 ft. from Land surface Date Measured 11/29/1999																																																																																													
PUMPING LEVEL (below land surface)																																																																																													
ft. after hrs. pumping g.p.m.																																																																																													
Well Head Completion																																																																																													
Pitless adapter manufacturer Model																																																																																													
<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade																																																																																													
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																																													
REMARKS WELL SEALED 11-01-2001 BY 71677 ORIGINAL USE MW - MONITOR WELL	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information</td> <td style="width:50%;">Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Grout Material: Neat Cement from 0 to 35 ft. 3 bags</td> </tr> <tr> <td colspan="2">Grout Material: Bentonite from 35 to 37 ft. 1 bags</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="2">__feet __direction __type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="2">Manufacturer's name Model number __ HP Volts</td> </tr> <tr> <td colspan="2">Length of drop Pipe __ft. Capacity __g.p.m Type Material</td> </tr> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification</td> </tr> <tr> <td style="width:33%;">First Bedrock</td> <td style="width:33%;">Aquifer</td> <td style="width:33%;">Thein Well Co.</td> </tr> <tr> <td>Last Strat</td> <td>Depth to Bedrock ft.</td> <td>34625</td> </tr> <tr> <td></td> <td></td> <td>HERRBOLDT, N.</td> </tr> <tr> <td></td> <td>License Business Name</td> <td>Lic. Or Reg. No.</td> </tr> <tr> <td></td> <td></td> <td>Name of Driller</td> </tr> </table>	Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Neat Cement from 0 to 35 ft. 3 bags		Grout Material: Bentonite from 35 to 37 ft. 1 bags		Nearest Known Source of Contamination		__feet __direction __type		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number __ HP Volts		Length of drop Pipe __ft. Capacity __g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Well Contractor Certification		First Bedrock	Aquifer	Thein Well Co.	Last Strat	Depth to Bedrock ft.	34625			HERRBOLDT, N.		License Business Name	Lic. Or Reg. No.			Name of Driller																																																			
Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																												
Grout Material: Neat Cement from 0 to 35 ft. 3 bags																																																																																													
Grout Material: Bentonite from 35 to 37 ft. 1 bags																																																																																													
Nearest Known Source of Contamination																																																																																													
__feet __direction __type																																																																																													
Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																													
Pump <input type="checkbox"/> Not Installed Date Installed																																																																																													
Manufacturer's name Model number __ HP Volts																																																																																													
Length of drop Pipe __ft. Capacity __g.p.m Type Material																																																																																													
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes																																																																																													
<input checked="" type="checkbox"/> No																																																																																													
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																													
Well Contractor Certification																																																																																													
First Bedrock	Aquifer	Thein Well Co.																																																																																											
Last Strat	Depth to Bedrock ft.	34625																																																																																											
		HERRBOLDT, N.																																																																																											
	License Business Name	Lic. Or Reg. No.																																																																																											
		Name of Driller																																																																																											
County Well Index Online Report	635497	Printed 10/26/2009 HE-01205-07																																																																																											

Minnesota Unique Well No.

635498

County **Dakota**
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date **05/29/2001**
 Update Date **10/28/2008**
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-3		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation ft.		50 ft.	50 ft.	11/30/1999
114 19 W 4 AAD Elevation Method		Drilling Method Auger (non-specified)		
Well Address 1605 160TH ST W ROSEMOUNT MN		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Geological Material		--	From Ft. to Ft.	
TOP SOIL, GRAVELY SAND		Use Abandoned Status Sealed		
GRAVELY SAND MED COARSE		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes		
SANDY CLAY		<input checked="" type="checkbox"/> No Above/Below ft.		
Color	Hardness	From	To	
BROWN	MEDIUM	0	3	
BROWN		3	38	
BROWN	MEDIUM	38	50	
		Casing Diameter	Weight	Hole Diameter
		2 in. to 40 ft.	3.65 lbs./ft.	4.25 in. to 50 ft.
		Open Hole from ft. to ft.		
		Screen YES Make TIMCO Type plastic		
		Diameter	Slot/Gauze	Length
		2	10	10
		Set Between 40 ft. and 50 ft.		
		Static Water Level		
		45 ft. from Land surface Date Measured 11/30/1999		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS WELL SEALED 11-01-2001 BY 71677 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Neat Cement from 0 to 35 ft. 3 bags		
		Grout Material: Bentonite from 35 to 37 ft. 1 bags		
		Nearest Known Source of Contamination		
		__feet __direction __type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP __ Volts		
		Length of drop Pipe __ft. Capacity __g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		
		<input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock	Aquifer	Thein Well Co.	34625	HERRBOLDT, N.
Last Strat	Depth to Bedrock ft.	License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		635498	Printed 10/26/2009 HE-01205-07	

Minnesota Unique Well No.

635499

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 05/29/2001
 Update Date 10/28/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-4 Township Range Dir Section Subsections Elevation ft. 114 19 W 4 AAD Elevation Method	Well Depth 59 ft. Depth Completed 59 ft. Date Well Completed 11/30/1999 Drilling Method Auger (non-specified)
Well Address 1605 160TH ST W ROSEMOUNT MN Geological Material SANDY CLAY GRAVEL GRAVELY SAND MED COARSE GRAVELY SAND SAND	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft. Use Abandoned Status Sealed Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft. Casing Diameter Weight Hole Diameter 2 in. to 49 ft. 3.65 lbs./ft. 4.25 in. to 59 ft. Open Hole from ft. to ft. Screen YES Make TIMCO Type plastic Diameter Slot/Gauze Length Set Between 2 10 10 49 ft. and 59 ft. Static Water Level 52 ft. from Land surface Date Measured 11/30/1999 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS WELL SEALED 11-01-2001 BY 71677 ORIGINAL USE MW - MONITOR WELL	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 44 ft. 3 bags Grout Material: Bentonite from 44 to 46 ft. 1 bags Nearest Known Source of Contamination __feet __direction __type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material
First Bedrock Aquifer Last Strat Depth to Bedrock ft.	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Contractor Certification Thein Well Co. 34625 HERRBOLDT, N. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	635499
Printed 10/26/2009 HE-01205-07	

Minnesota Unique Well No.

769482

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 06/23/2009
 Update Date 06/23/2009
 Received Date

Minnesota Statutes Chapter 103I

Well Name UNIVERSITY OF MN PW-C2-202 Township Range Dir Section Subsections Elevation ft. 115 19 W 33 DDD Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>147 ft.</td> <td>145 ft.</td> <td>01/27/2009</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	147 ft.	145 ft.	01/27/2009	Drilling Method Non-specified Rotary																																																																											
Well Depth	Depth Completed	Date Well Completed																																																																																	
147 ft.	145 ft.	01/27/2009																																																																																	
Drilling Method Non-specified Rotary																																																																																			
Well Address 160TH ST&STATION TRL ROSEMOUNT MN Geological Material CLAY SND GVL RCK CLAY LIMESTONE	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Color</td> <td style="width:15%;">Hardness</td> <td style="width:15%;">From</td> <td style="width:15%;">To</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>4</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>4</td> <td>145</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>145</td> <td>147</td> </tr> <tr> <td>TAN</td> <td>HARD</td> <td>147</td> <td>147</td> </tr> </table>	Color	Hardness	From	To	BROWN	MEDIUM	0	4	BROWN	SOFT	4	145	GRAY	MEDIUM	145	147	TAN	HARD	147	147																																																														
Color	Hardness	From	To																																																																																
BROWN	MEDIUM	0	4																																																																																
BROWN	SOFT	4	145																																																																																
GRAY	MEDIUM	145	147																																																																																
TAN	HARD	147	147																																																																																
REMARKS PW-C2-202 DRILLED NEAR MW-C2-202	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>Bentonite</td> <td>From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Test well</td> </tr> <tr> <td>Casing Type Steel (black or low carbon) Joint Unknown Drive Shoe? <input type="checkbox"/> Yes</td> <td></td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter</td> <td>Weight</td> </tr> <tr> <td>6 in. to 125 ft.</td> <td>18.97 lbs./ft.</td> </tr> <tr> <td>Hole Diameter</td> <td></td> </tr> <tr> <td>10 in. to 145 ft.</td> <td></td> </tr> <tr> <td colspan="2">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make JOHNSON Type stainless steel</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> </tr> <tr> <td>6</td> <td>30</td> </tr> <tr> <td>Length</td> <td>Set Between</td> </tr> <tr> <td>20</td> <td>125 ft. and 145 ft.</td> </tr> <tr> <td colspan="2">Static Water Level</td> </tr> <tr> <td colspan="2">67 ft. from Land surface Date Measured 01/27/2009</td> </tr> <tr> <td colspan="2">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="2">88.9 ft. after 9.5 hrs. pumping 250 g.p.m.</td> </tr> <tr> <td colspan="2">Well Head Completion</td> </tr> <tr> <td colspan="2">Pitless adapter manufacturer Model</td> </tr> <tr> <td><input type="checkbox"/> Casing Protection</td> <td><input checked="" type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="2">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Grout Material: Bentonite from to 115 ft. 12 bags</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="2">__feet __direction __type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="2">Manufacturer's name Model number __ HP __ Volts</td> </tr> <tr> <td colspan="2">Length of drop Pipe __ft. Capacity __g.p.m Type Material</td> </tr> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification</td> </tr> <tr> <td>First Bedrock</td> <td>Aquifer</td> </tr> <tr> <td>Last Strat</td> <td>Depth to Bedrock ft.</td> </tr> <tr> <td>Mark J Traut Wells, Inc.</td> <td>1404</td> </tr> <tr> <td>License Business Name</td> <td>Lic. Or Reg. No.</td> </tr> <tr> <td></td> <td>STORKAMP,P.</td> </tr> <tr> <td></td> <td>Name of Driller</td> </tr> </table>	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Bentonite	From Ft. to Ft.	Use Test well		Casing Type Steel (black or low carbon) Joint Unknown Drive Shoe? <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No Above/Below ft.		Casing Diameter	Weight	6 in. to 125 ft.	18.97 lbs./ft.	Hole Diameter		10 in. to 145 ft.		Open Hole from ft. to ft.		Screen YES	Make JOHNSON Type stainless steel	Diameter	Slot/Gauze	6	30	Length	Set Between	20	125 ft. and 145 ft.	Static Water Level		67 ft. from Land surface Date Measured 01/27/2009		PUMPING LEVEL (below land surface)		88.9 ft. after 9.5 hrs. pumping 250 g.p.m.		Well Head Completion		Pitless adapter manufacturer Model		<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade	<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Grout Material: Bentonite from to 115 ft. 12 bags		Nearest Known Source of Contamination		__feet __direction __type		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number __ HP __ Volts		Length of drop Pipe __ft. Capacity __g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Well Contractor Certification		First Bedrock	Aquifer	Last Strat	Depth to Bedrock ft.	Mark J Traut Wells, Inc.	1404	License Business Name	Lic. Or Reg. No.		STORKAMP,P.		Name of Driller
Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																		
Bentonite	From Ft. to Ft.																																																																																		
Use Test well																																																																																			
Casing Type Steel (black or low carbon) Joint Unknown Drive Shoe? <input type="checkbox"/> Yes																																																																																			
<input checked="" type="checkbox"/> No Above/Below ft.																																																																																			
Casing Diameter	Weight																																																																																		
6 in. to 125 ft.	18.97 lbs./ft.																																																																																		
Hole Diameter																																																																																			
10 in. to 145 ft.																																																																																			
Open Hole from ft. to ft.																																																																																			
Screen YES	Make JOHNSON Type stainless steel																																																																																		
Diameter	Slot/Gauze																																																																																		
6	30																																																																																		
Length	Set Between																																																																																		
20	125 ft. and 145 ft.																																																																																		
Static Water Level																																																																																			
67 ft. from Land surface Date Measured 01/27/2009																																																																																			
PUMPING LEVEL (below land surface)																																																																																			
88.9 ft. after 9.5 hrs. pumping 250 g.p.m.																																																																																			
Well Head Completion																																																																																			
Pitless adapter manufacturer Model																																																																																			
<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade																																																																																		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																																			
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																			
Grout Material: Bentonite from to 115 ft. 12 bags																																																																																			
Nearest Known Source of Contamination																																																																																			
__feet __direction __type																																																																																			
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																			
Pump <input type="checkbox"/> Not Installed Date Installed																																																																																			
Manufacturer's name Model number __ HP __ Volts																																																																																			
Length of drop Pipe __ft. Capacity __g.p.m Type Material																																																																																			
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes																																																																																			
<input checked="" type="checkbox"/> No																																																																																			
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																			
Well Contractor Certification																																																																																			
First Bedrock	Aquifer																																																																																		
Last Strat	Depth to Bedrock ft.																																																																																		
Mark J Traut Wells, Inc.	1404																																																																																		
License Business Name	Lic. Or Reg. No.																																																																																		
	STORKAMP,P.																																																																																		
	Name of Driller																																																																																		
County Well Index Online Report	769482	Printed 10/26/2009 HE-01205-07																																																																																	

Minnesota Unique Well No.

769483

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 06/23/2009
 Update Date 06/23/2009
 Received Date

Minnesota Statutes Chapter 103I

Well Name UNIVERSITY OF MN MW-E2-209		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation ft.		126 ft.	126 ft.	01/27/2009
114 19 W 4 DBB Elevation Method		Drilling Method Other		
Well Address STATION TRL&160TH ST W MN		Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Geological Material		Use Monitor well		
Color	Hardness	From	To	Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
TOPSOIL BLACK MEDIUM 0 1	SILTY SAND BROWN MEDIUM 1 5	SAND & GRAVEL BROWN MEDIUM 5 40	SAND BROWN MEDIUM 40 100	Casing Diameter Weight Hole Diameter
ROCK BLACK HARD 100 110	SILTY SAND & CLAY GRAY MEDIUM 110 116	GRAVEL BROWN MEDIUM 116 119	SILTY CLAY BROWN MEDIUM 119 121	2 in. to 116 ft. 3.65 lbs./ft. 7 in. to 126 ft.
GRAVEL BROWN MEDIUM 121 122	SANDSTONE GRAY MEDIUM 122 126	Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
		Diameter	Slot/Gauze	Length Set Between
		2	10	10 116 ft. and 126 ft.
		Static Water Level 60 ft. from Land surface Date Measured 01/27/2009		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Bentonite from to 113 ft. 11 bags		
		Nearest Known Source of Contamination __feet __direction __type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Aquifer		Well Contractor Certification		
Last Strat Depth to Bedrock ft.		Mark J Traut Wells, Inc.	1404	ANDERSON, M.
		License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		769483		Printed 10/26/2009 HE-01205-07

Minnesota Unique Well No.

769488

County **Dakota**
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date **06/23/2009**
 Update Date **06/23/2009**
 Received Date

Minnesota Statutes Chapter 103I

Well Name UNIVERSITY OF MN MWE2 009 Township Range Dir Section Subsections Elevation ft. 114 19 W 4 DBB Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>70 ft.</td> <td>67.7 ft.</td> <td>12/21/2008</td> </tr> <tr> <td colspan="3">Drilling Method Other</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	70 ft.	67.7 ft.	12/21/2008	Drilling Method Other																																														
Well Depth	Depth Completed	Date Well Completed																																																				
70 ft.	67.7 ft.	12/21/2008																																																				
Drilling Method Other																																																						
Well Address STATION TRAIL&160TH ROSEMOUNT MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">Geological Material</th> <th style="width:15%;">Color</th> <th style="width:15%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td>MEDIUM</td> <td>0</td> <td>1</td> </tr> <tr> <td>SILTY SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>1</td> <td>5</td> </tr> <tr> <td>SAND & GRAVEL</td> <td>BROWN</td> <td>MEDIUM</td> <td>5</td> <td>40</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>40</td> <td>70</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK	MEDIUM	0	1	SILTY SAND	BROWN	MEDIUM	1	5	SAND & GRAVEL	BROWN	MEDIUM	5	40	SAND	BROWN	MEDIUM	40	70	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid Water</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Monitor well</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter 2 in. to 57.7 ft.</td> <td>Weight 3.65 lbs./ft.</td> <td>Hole Diameter 7 in. to 70 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make JOHNSON Type stainless steel</td> </tr> <tr> <td>Diameter 2</td> <td>Slot/Gauze 10</td> <td>Length 10</td> <td>Set Between 57.7 ft. and 67.7 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 57 ft. from Land surface Date Measured 12/21/2008</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Monitor well		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter 2 in. to 57.7 ft.	Weight 3.65 lbs./ft.	Hole Diameter 7 in. to 70 ft.	Open Hole from ft. to ft.			Screen YES Make JOHNSON Type stainless steel			Diameter 2	Slot/Gauze 10	Length 10	Set Between 57.7 ft. and 67.7 ft.	Static Water Level 57 ft. from Land surface Date Measured 12/21/2008			PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Geological Material	Color	Hardness	From	To																																																		
TOP SOIL	BLACK	MEDIUM	0	1																																																		
SILTY SAND	BROWN	MEDIUM	1	5																																																		
SAND & GRAVEL	BROWN	MEDIUM	5	40																																																		
SAND	BROWN	MEDIUM	40	70																																																		
Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																																					
Use Monitor well																																																						
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																																						
Casing Diameter 2 in. to 57.7 ft.	Weight 3.65 lbs./ft.	Hole Diameter 7 in. to 70 ft.																																																				
Open Hole from ft. to ft.																																																						
Screen YES Make JOHNSON Type stainless steel																																																						
Diameter 2	Slot/Gauze 10	Length 10	Set Between 57.7 ft. and 67.7 ft.																																																			
Static Water Level 57 ft. from Land surface Date Measured 12/21/2008																																																						
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																																						
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																						
REMARKS MW-E2-009	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Grout Material: Bentonite from to 58.7 ft. 6 bags</td> </tr> <tr> <td>Nearest Known Source of Contamination _feet _direction _type</td> </tr> <tr> <td>Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</td> </tr> <tr> <td>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>Well Contractor Certification Mark J Traut Wells, Inc. 1404 ANDERSON, M. License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Bentonite from to 58.7 ft. 6 bags	Nearest Known Source of Contamination _feet _direction _type	Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Well Contractor Certification Mark J Traut Wells, Inc. 1404 ANDERSON, M. License Business Name Lic. Or Reg. No. Name of Driller																																													
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																						
Grout Material: Bentonite from to 58.7 ft. 6 bags																																																						
Nearest Known Source of Contamination _feet _direction _type																																																						
Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																						
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																						
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																						
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																						
Well Contractor Certification Mark J Traut Wells, Inc. 1404 ANDERSON, M. License Business Name Lic. Or Reg. No. Name of Driller																																																						
First Bedrock Aquifer Last Strat Depth to Bedrock ft.	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">County Well Index Online Report</td> <td style="width:25%; text-align: center;">769488</td> <td style="width:25%; text-align: right;">Printed 10/26/2009 HE-01205-07</td> </tr> </table>	County Well Index Online Report	769488	Printed 10/26/2009 HE-01205-07																																																		
County Well Index Online Report	769488	Printed 10/26/2009 HE-01205-07																																																				

Minnesota Unique Well No.

769489

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 06/23/2009
 Update Date 06/23/2009
 Received Date

Minnesota Statutes Chapter 103I

Well Name UNIVERSITY OF MN MW-C2-202		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation ft.		147 ft.	147 ft.	01/22/2009
115 19 W 33 DDD Elevation Method		Drilling Method Non-specified Rotary		
Well Address 160TH ST&STATION TRL ROSEMOUNT MN		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
Geological Material CLAY SAND GRVL ROCKS LIMESTONE		Use Monitor well		
Color BROWN BROWN TAN	Hardness MEDIUM SOFT HARD	From 0 4 147	To 4 147 147	Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.
		Casing Diameter	Weight	Hole Diameter
		2 in. to 137 ft.	3.65 lbs./ft.	6 in. to 147 ft.
Open Hole from ft. to ft.				
Screen YES Make JOHNSON Type stainless steel				
		Diameter	Slot/Gauze	Length Set Between
		2	10	10 137 ft. and 147 ft.
Static Water Level 67 ft. from Land surface Date Measured 01/22/2009				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Bentonite from to 134 ft.		
		Nearest Known Source of Contamination _feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Well Contractor Certification Mark J Traut Wells, Inc. 1404 STORKAMP,P. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock	Aquifer			
Last Strat	Depth to Bedrock ft.			
County Well Index Online Report		769489		Printed 10/26/2009 HE-01205-07

Minnesota Unique Well No.

769490

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 06/23/2009
 Update Date 06/23/2009
 Received Date

Minnesota Statutes Chapter 103I

Well Name UNIVERSITY OF MN MW D3 007 Township Range Dir Section Subsections Elevation ft. 114 19 W 3 BAB Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>70 ft.</td> <td>70 ft.</td> <td>01/07/2009</td> </tr> <tr> <td colspan="3">Drilling Method Other</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	70 ft.	70 ft.	01/07/2009	Drilling Method Other																																																																																				
Well Depth	Depth Completed	Date Well Completed																																																																																										
70 ft.	70 ft.	01/07/2009																																																																																										
Drilling Method Other																																																																																												
Well Address AKRON & 164TH ST W ROSEMOUNT MN Geological Material TOP SOIL SILTY SAND SAND & GRAVEL	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Color</td> <td style="width:15%;">Hardness</td> <td style="width:15%;">From</td> <td style="width:15%;">To</td> </tr> <tr> <td>BLACK</td> <td>MEDIUM</td> <td>0</td> <td>1</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>1</td> <td>3</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>3</td> <td>70</td> </tr> </table>	Color	Hardness	From	To	BLACK	MEDIUM	0	1	BROWN	MEDIUM	1	3	BROWN	MEDIUM	3	70																																																																											
Color	Hardness	From	To																																																																																									
BLACK	MEDIUM	0	1																																																																																									
BROWN	MEDIUM	1	3																																																																																									
BROWN	MEDIUM	3	70																																																																																									
REMARKS MW-D3-007	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Water</td> <td>From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Monitor well</td> </tr> <tr> <td>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>2 in. to 60 ft.</td> <td>3.65 lbs./ft.</td> <td>7 in. to 70 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make JOHNSON</td> <td>Type stainless steel</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> <tr> <td>2</td> <td>10</td> <td>10</td> <td>60 ft. and 70 ft.</td> </tr> <tr> <td colspan="3">Static Water Level</td> </tr> <tr> <td colspan="3">58 ft. from Land surface Date Measured 01/07/2009</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface)</td> </tr> <tr> <td colspan="3">ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion</td> </tr> <tr> <td colspan="3">Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Grout Material: Bentonite from to 54 ft. 4 bags</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination</td> </tr> <tr> <td colspan="3">__feet __direction __type</td> </tr> <tr> <td colspan="3">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="3">Manufacturer's name Model number __ HP __ Volts</td> </tr> <tr> <td colspan="3">Length of drop Pipe __ft. Capacity __g.p.m. Type Material</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification</td> </tr> <tr> <td>First Bedrock</td> <td>Aquifer</td> <td>Mark J Traut Wells, Inc. 1404 ANDERSON, M.</td> </tr> <tr> <td>Last Strat</td> <td>Depth to Bedrock ft.</td> <td>License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	Water	From Ft. to Ft.	Use Monitor well		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes	<input type="checkbox"/> No Above/Below ft.	Casing Diameter	Weight	Hole Diameter	2 in. to 60 ft.	3.65 lbs./ft.	7 in. to 70 ft.	Open Hole from ft. to ft.			Screen YES	Make JOHNSON	Type stainless steel	Diameter	Slot/Gauze	Length	Set Between	2	10	10	60 ft. and 70 ft.	Static Water Level			58 ft. from Land surface Date Measured 01/07/2009			PUMPING LEVEL (below land surface)			ft. after hrs. pumping g.p.m.			Well Head Completion			Pitless adapter manufacturer Model			<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade			<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Grout Material: Bentonite from to 54 ft. 4 bags			Nearest Known Source of Contamination			__feet __direction __type			Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			Pump <input type="checkbox"/> Not Installed Date Installed			Manufacturer's name Model number __ HP __ Volts			Length of drop Pipe __ft. Capacity __g.p.m. Type Material			Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			Well Contractor Certification			First Bedrock	Aquifer	Mark J Traut Wells, Inc. 1404 ANDERSON, M.	Last Strat	Depth to Bedrock ft.	License Business Name Lic. Or Reg. No. Name of Driller
Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																											
Water	From Ft. to Ft.																																																																																											
Use Monitor well																																																																																												
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes	<input type="checkbox"/> No Above/Below ft.																																																																																											
Casing Diameter	Weight	Hole Diameter																																																																																										
2 in. to 60 ft.	3.65 lbs./ft.	7 in. to 70 ft.																																																																																										
Open Hole from ft. to ft.																																																																																												
Screen YES	Make JOHNSON	Type stainless steel																																																																																										
Diameter	Slot/Gauze	Length	Set Between																																																																																									
2	10	10	60 ft. and 70 ft.																																																																																									
Static Water Level																																																																																												
58 ft. from Land surface Date Measured 01/07/2009																																																																																												
PUMPING LEVEL (below land surface)																																																																																												
ft. after hrs. pumping g.p.m.																																																																																												
Well Head Completion																																																																																												
Pitless adapter manufacturer Model																																																																																												
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																																																																												
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																																												
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																												
Grout Material: Bentonite from to 54 ft. 4 bags																																																																																												
Nearest Known Source of Contamination																																																																																												
__feet __direction __type																																																																																												
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																												
Pump <input type="checkbox"/> Not Installed Date Installed																																																																																												
Manufacturer's name Model number __ HP __ Volts																																																																																												
Length of drop Pipe __ft. Capacity __g.p.m. Type Material																																																																																												
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																												
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																												
Well Contractor Certification																																																																																												
First Bedrock	Aquifer	Mark J Traut Wells, Inc. 1404 ANDERSON, M.																																																																																										
Last Strat	Depth to Bedrock ft.	License Business Name Lic. Or Reg. No. Name of Driller																																																																																										
County Well Index Online Report	769490	Printed 10/26/2009 HE-01205-07																																																																																										

Minnesota Unique Well No.

769493

County Dakota
 Quad
 Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Entry Date 06/23/2009
 Update Date 06/23/2009
 Received Date

Minnesota Statutes Chapter 103I

Well Name UNIVERSITY OF MN MW-C2-002 Township Range Dir Section Subsections Elevation ft. 115 19 W 33 DDD Elevation Method	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth</td> <td style="width:33%;">Depth Completed</td> <td style="width:33%;">Date Well Completed</td> </tr> <tr> <td>75 ft.</td> <td>75 ft.</td> <td>01/28/2009</td> </tr> <tr> <td colspan="3">Drilling Method Other</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	75 ft.	75 ft.	01/28/2009	Drilling Method Other																																																															
Well Depth	Depth Completed	Date Well Completed																																																																					
75 ft.	75 ft.	01/28/2009																																																																					
Drilling Method Other																																																																							
Well Address STATION TRL&160TH W ROSEMOUNT MN Geological Material TOP SOIL SILTY SAND SAND WITH GRAVEL	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Color</td> <td style="width:15%;">Hardness</td> <td style="width:15%;">From</td> <td style="width:15%;">To</td> </tr> <tr> <td>BLACK</td> <td>MEDIUM</td> <td>0</td> <td>2</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>2</td> <td>5</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>5</td> <td>75</td> </tr> </table>	Color	Hardness	From	To	BLACK	MEDIUM	0	2	BROWN	MEDIUM	2	5	BROWN	MEDIUM	5	75																																																						
Color	Hardness	From	To																																																																				
BLACK	MEDIUM	0	2																																																																				
BROWN	MEDIUM	2	5																																																																				
BROWN	MEDIUM	5	75																																																																				
REMARKS MW-C2-002	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> Drilling Fluid Water </td> <td style="width:50%;"> Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. </td> </tr> <tr> <td colspan="2">Use Monitor well</td> </tr> <tr> <td colspan="2"> Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft. </td> </tr> <tr> <td style="width:33%;">Casing Diameter</td> <td style="width:33%;">Weight</td> <td style="width:33%;">Hole Diameter</td> </tr> <tr> <td>2 in. to 65 ft.</td> <td>3.65 lbs./ft.</td> <td>7 in. to 75 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make JOHNSON Type stainless steel</td> </tr> <tr> <td style="width:15%;">Diameter</td> <td style="width:15%;">Slot/Gauze</td> <td style="width:15%;">Length</td> <td style="width:15%;">Set Between</td> </tr> <tr> <td>2</td> <td>10</td> <td>10</td> <td>65 ft. and 75 ft.</td> </tr> <tr> <td colspan="4">Static Water Level ft. from Date Measured</td> </tr> <tr> <td colspan="4">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="4">Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) </td> </tr> <tr> <td colspan="4">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 62 ft. 5 bags </td> </tr> <tr> <td colspan="4">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td colspan="4">Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material </td> </tr> <tr> <td colspan="4">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td colspan="4">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="4">Well Contractor Certification Mark J Traut Wells, Inc. 1404 ANDERSON, M. License Business Name Lic. Or Reg. No. Name of Driller </td> </tr> <tr> <td colspan="2"> First Bedrock Aquifer Last Strat Depth to Bedrock ft. </td> <td colspan="2"> County Well Index Online Report </td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center; font-size: 24pt;">769493</td> <td style="text-align: right;"> Printed 10/26/2009 HE-01205-07 </td> </tr> </table>	Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Monitor well		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter	Weight	Hole Diameter	2 in. to 65 ft.	3.65 lbs./ft.	7 in. to 75 ft.	Open Hole from ft. to ft.			Screen YES Make JOHNSON Type stainless steel			Diameter	Slot/Gauze	Length	Set Between	2	10	10	65 ft. and 75 ft.	Static Water Level ft. from Date Measured				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 62 ft. 5 bags				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				Well Contractor Certification Mark J Traut Wells, Inc. 1404 ANDERSON, M. License Business Name Lic. Or Reg. No. Name of Driller				First Bedrock Aquifer Last Strat Depth to Bedrock ft.		County Well Index Online Report				769493	Printed 10/26/2009 HE-01205-07
Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																																																						
Use Monitor well																																																																							
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																																																							
Casing Diameter	Weight	Hole Diameter																																																																					
2 in. to 65 ft.	3.65 lbs./ft.	7 in. to 75 ft.																																																																					
Open Hole from ft. to ft.																																																																							
Screen YES Make JOHNSON Type stainless steel																																																																							
Diameter	Slot/Gauze	Length	Set Between																																																																				
2	10	10	65 ft. and 75 ft.																																																																				
Static Water Level ft. from Date Measured																																																																							
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																																																							
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																							
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 62 ft. 5 bags																																																																							
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																							
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																																							
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																							
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																							
Well Contractor Certification Mark J Traut Wells, Inc. 1404 ANDERSON, M. License Business Name Lic. Or Reg. No. Name of Driller																																																																							
First Bedrock Aquifer Last Strat Depth to Bedrock ft.		County Well Index Online Report																																																																					
		769493	Printed 10/26/2009 HE-01205-07																																																																				