

# DRILLING LOG

## HOLE NO. E0000

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.77 mE +/- 0.02 m 4,949,973.79 mN +/- 0.02 m

Elevation (ft.): 947.0 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Between edge of field road and north edge of 170th Street ditch, probably at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/24/07 2:05 PM

Drilling Contractor: WDC

Completed: 9/24/07 3:00 PM

Drill Rig: CME-85

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation  
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
1.0 <b>TOPSOIL.</b> Sandy, silty, black.	946.0									Loess	
2.0 <b>SAND.</b> Fine to medium sand, very dirty. No gravel.	945.0									Superior lobe outwash	
5.0	942.0										
10.0 <b>SAND.</b> Fine to medium sand, very dirty. Minor gravel to 1-1/2 inches.	937.0				26.9	1.3	5.5	20.1	35.9		
<b>SAND &amp; GRAVEL.</b> Fine to very coarse sand. Gravel to 1-1/2 inches.											
<b>SAND.</b> Fine to medium sand. Very minor trace gravel to 1-1/2 inches.											
20.0	927.0										
<b>SAND.</b> Very fine to fine sand. No gravel.											
25.0	922.0										
<b>SAND.</b> Fine sand. No gravel.											
30.0	917.0										
<b>SAND.</b> Fine sand, dirty. Very minor gravel to 3-1/2 inches.											
35.0	912.0										
<b>TILL.</b> Clayey, gray.										Till	
48.0	899.0										
T.D. 48 ft.											
Interval 2 to 5 feet too dirty to wash, could be used for base or bituminous products.											

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E0200

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,298.37 mE +/- 0.02 m 4,950,259.16 mN +/- 0.02 m

Elevation (ft.): 949.5 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/24/07 12:50 PM

Drilling Contractor: WDC

Completed: 9/24/07 1:55 PM

Drill Rig: CME-85

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	<b>TOPSOIL.</b> Silty, black.	948.0									Loess	
3.5	<b>SILT.</b> Brown.	946.0										
5.0	<b>SAND.</b> Fine to medium sand, slightly dirty. Minor gravel to 1-1/2 inches.	944.5									Superior lobe outwash	16.9 % + #4
10.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 1-1/2 inches.	939.5				20.1	0.7	5.7	13.8	38.8		
15.0	<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1 inch.	934.5				12.6	0.0	1.5	11.1	21.7		
	<b>SAND.</b> Fine sand. No gravel.										Superior lobe outwash	
25.0	<b>SAND.</b> Fine to medium sand. No gravel.	924.5										
30.0	<b>SAND.</b> Very fine to fine sand, dirty. No gravel. Silt lens(es) present.	919.5									Lacustrine sediment	
35.0	<b>SAND.</b> Very fine to fine sand, dirty. Very minor gravel to 1-1/2 inches.	914.5										
40.0	<b>SAND.</b> Very fine to medium sand, dirty. No gravel.	909.5										
45.0	<b>SAND.</b> Very fine sand, very dirty. No gravel. Reddish brown.	904.5										
50.0	<b>SAND.</b> Very fine sand, very dirty. No gravel. Reddish brown.	899.5										
	T.D. 50 ft.											

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# DRILLING LOG

## HOLE NO. E0400

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,300.80 mE +/- 0.02 m 4,950,405.89 mN +/- 0.02 m

Elevation (ft.): 951.2 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/24/07 10:35 AM

Drilling Contractor: WDC

Completed: 9/24/07 11:50 AM

Drill Rig: CME-85

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)					
1.5	TOPSOIL. Silty, black.	949.7										Loess		
3.5	SILT. Brown.	947.7												
5.0	SAND & GRAVEL. Fine to medium sand, dirty. Gravel to 2 inches.	946.2				35.9	12.2	10.7	13.0	41.5	Superior lobe outwash	15.5 % + #4		
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4-1/2 inches.	941.2				12.7	0.0	1.0	11.7	21.4				
15.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	936.2				2.9	0.0	0.2	2.7	20.6				
20.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.	931.2				6.1	0.0	0.8	5.3	21.2				
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	926.2				12.4	0.0	2.5	9.9	28.4				
30.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.	921.2				4.0	0.0	0.7	3.3	25.9				
40.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.	911.2				3.1	0.0	0.4	2.7	25.5				
45.0	GRAVEL & SAND. Fine to coarse sand. Gravel to 2-1/2 inches.	906.2				40.9	6.9	10.9	23.1	35.2				
55.0	TILL. Sandy, silty, reddish brown, soft.	896.2											Till	
	T.D. 55 ft.													

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E0600

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,300.14 mE +/- 0.02 m 4,950,550.94 mN +/- 0.02 m

Elevation (ft.): 948.0 +/- 0.1 ft.

Ground Water Depth (ft.): 56.5

Ground Water Elevation (ft.): 891.5

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/24/07 8:55 AM

Drilling Contractor: WDC

Completed: 9/24/07 10:20 AM

Drill Rig: CME-85

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation  
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.0 <b>TOPSOIL.</b> Silty, black.	946.0									Loess	
3.0 <b>SILT.</b> Brown.	945.0										
5.0 <b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch.	943.0				15.7	0.0	2.8	12.9	30.4		
10.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 1 inch, mostly pea gravel.	938.0				10.3	3.7	1.7	4.9	25.0		
15.0 <b>SAND.</b> Fine sand. Very minor gravel to 3-1/2 inches, mostly less than 1 inch.	933.0				28.2	7.2	9.2	11.8	34.4		
20.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 1-3/4 inches.	928.0				20.1	3.9	6.6	9.5	29.9		
25.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 2 inches.	923.0				5.0	0.0	1.3	3.7	26.2		
30.0 <b>SAND.</b> Fine sand. Very minor trace gravel to 1 inch.	918.0				29.0	0.6	6.2	22.2	34.8	Superior lobe outwash	
35.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 1-1/2 inches.	913.0				31.7	6.4	7.6	17.6	30.6		
40.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 2-1/2 inches.	908.0										
45.0 <b>SAND.</b> Fine to medium sand, slightly dirty. Very minor gravel to 1 inch. Thin silt lens present in this interval.	903.0										
50.0 <b>SAND.</b> Fine to coarse sand, slightly dirty. Very minor gravel to 1-1/2 inches.	898.0										
55.0 <b>SAND.</b> Fine to coarse sand, slightly dirty. Very minor gravel to 1 inch.	893.0										
57.0 <b>SAND &amp; GRAVEL.</b> Fine to very coarse sand. Gravel to 1 inch.	891.0										
59.0 <b>TILL.</b> Clayey, brown. Refusal in tight material at 59 feet.	889.0									Till	
	T.D. 59 ft.										

19.8 % + #4

LOG-A-GNINN08-UMORE PARK DRILLING LOGS.GPJ LOG-A-GNINN08.GDT Printed 5/30/08



# DRILLING LOG

## HOLE NO. E1000

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.30 mE +/- 0.02 m 4,950,977.93 mN +/- 0.02 m

Elevation (ft.): 944.4 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Edge of corn field at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/27/07 7:00 AM

Drilling Contractor: WDC

Completed: 9/27/07 7:55 AM

Drill Rig: CME-85

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation  
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification		
2.0 <b>TOPSOIL.</b> Silty, clayey, black.	942.4									Loess			
4.0 <b>SILT.</b> Clayey, brown.	940.4												
5.0 <b>SAND.</b> Fine to coarse sand, slightly dirty. Minor gravel to 2 inches.	939.4				26.3	1.2	8.4	16.6	39.6	Superior lobe outwash	25.9% + #4		
10.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 2 inches.	934.4												
15.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 4-1/2 inches.	929.4				25.4	10.5	3.9	11.0	28.9				
20.0 <b>SAND.</b> Fine to medium sand. No gravel.	924.4												
25.0 <b>SAND.</b> Fine sand. No gravel.	919.4												
30.0 <b>SAND.</b> Fine to coarse sand. Very minor gravel to 3-1/2 inches.	914.4												
45.0 <b>SAND.</b> Fine sand. No gravel.	899.4												
T.D. 45 ft.													

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# DRILLING LOG

## HOLE NO. E1200

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,301.27 mE +/- 0.02 m 4,951,199.58 mN +/- 0.02 m  
 Elevation (ft.): 947.5 +/- 0.1 ft.  
 Ground Water Depth (ft.): 60.0  
 Ground Water Elevation (ft.): 887.5  
 Site: Corn stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/24/07 2:00 PM  
 Drilling Contractor: Braun Intertec Completed: 10/24/07 3:35 PM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5 <b>TOPSOIL.</b> Silty, black.	946.0										Loess	
3.0 <b>SILT.</b> Brown.	944.5											
5.0 <b>SAND.</b> Fine to medium sand, slightly dirty. Very minor gravel to 2 inches.	942.5				10.8	0.9	2.1	7.8	34.2	Superior lobe outwash	18.0% + #4	
10.0 <b>SAND.</b> Fine to coarse sand. Very minor gravel to 1 inch.	937.5				3.0	0.0	0.2	2.8	17.9			
15.0 <b>SAND.</b> Fine sand. Very minor trace gravel to 3/4 inch.	932.5				27.0	4.4	10.2	12.4	22.4			
<b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 2-1/2 inches.					29.3	7.7	6.4	15.2	32.0			
25.0 <b>SAND.</b> Fine to very coarse sand. Minor gravel to 1 inch, mostly pea gravel.	922.5				18.2	0.0	3.4	14.8	26.3			
35.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 1-1/4 inches.	912.5				21.2	0.0	2.2	19.0	28.2			
40.0 <b>SAND.</b> Fine to medium sand. Very minor trace gravel to 1/2 inch.	907.5				19.5	0.0	4.8	14.6	21.3			
45.0 <b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch.	902.5											
50.0 <b>SAND.</b> Fine to medium sand. Very minor gravel to 3-1/2 inches.	897.5											
55.0 <b>SAND.</b> Fine sand. No gravel.	892.5											
65.0	882.5											
	T.D. 65 ft.											

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1400

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,301.64 mE +/- 0.02 m 4,951,415.06 mN +/- 0.02 m

Elevation (ft.): 953.1 +/- 0.1 ft.

Ground Water Depth (ft.): 62.0

Ground Water Elevation (ft.): 891.1

Site: Edge of corn field at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/21/07 12:55 PM

Drilling Contractor: WDC

Completed: 9/21/07 2:25 PM

Drill Rig: CME-85

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.0 <b>TOPSOIL.</b> Silty, black.	951.1										Loess	
3.0 <b>SILT.</b> Brown.	950.1											
5.0 <b>SAND.</b> Very fine to fine sand. Very minor gravel to 3 inches.	948.1					29.9	10.2	6.1	13.7	39.8	Superior lobe outwash	14.2% + #4
10.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 4-1/2 inches.	943.1					23.8	1.1	5.2	17.5	24.2		
15.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 1-1/2 inches.	938.1					7.0	0.0	1.5	5.5	28.0		
20.0 <b>SAND.</b> Fine to coarse sand. Very minor pea gravel.	933.1					17.3	2.1	4.0	11.2	29.2		
25.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 2 inches.	928.1					3.9	0.0	1.2	2.8	27.3		
30.0 <b>SAND.</b> Fine sand. Very minor trace gravel to 1 inch.	923.1					7.3	0.0	2.1	5.3	27.1		
						5.7	1.8	0.1	3.8	27.2		
						5.4	0.0	1.3	4.0	27.9		
50.0 <b>SAND.</b> Fine sand. Very minor gravel to 1 inch.	903.1					12.7	0.0	4.6	8.1	25.4		
55.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 2 inches.	898.1					7.0	0.0	1.0	6.0	22.9		
						21.9	2.2	8.3	11.5	24.0		
65.0 <b>T.D.</b> 65 ft.	888.1					21.9	0.8	4.9	16.1	25.2		

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1500

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,304.70 mE +/- 0.02 m 4,951,497.95 mN +/- 0.02 m  
 Elevation (ft.): 936.3 +/- 0.1 ft.  
 Ground Water Depth (ft.): 60.0  
 Ground Water Elevation (ft.): 876.3  
 Site: Old field at natural grade.

Drilling Method: 9-inch flight auger Started: 4/16/08 7:15 AM  
 Drilling Contractor: Braun Intertec Completed: 4/16/08 8:45 AM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
3.0	933.3										Loess	
6.0	930.3											
10.0	926.3										Superior lobe outwash <b>19.7 % + #4</b>	
15.0	921.3				14.2	2.5	4.8	6.9	32.9			
20.0	916.3											
25.0	911.3				24.6	9.6	6.8	8.2	27.1			
30.0	906.3				19.3	5.2	2.5	11.6	36.8			
35.0	901.3				12.9	0.0	1.9	11.0	35.9			
40.0	896.3				15.1	3.7	3.7	11.5	34.1			
45.0	891.3				20.5	2.6	4.7	13.1	28.8			
50.0					25.8	0.0	4.8	21.0	29.9			
55.0	881.3				28.0	0.0	3.8	24.2	36.3			
60.0					23.7	0.0	3.7	20.0	34.1			
65.0	871.3				23.0	1.5	6.0	15.6	31.2			
	T.D. 65 ft.											

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1600

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,342.00 mE +/- 0.02 m 4,951,601.35 mN +/- 0.02 m

Elevation (ft.): 951.2 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Edge of snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/5/07 12:35 PM

Drilling Contractor: Braun Intertec

Completed: 12/5/07 1:45 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation  
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
1.5 <b>TOPSOIL.</b> Silty, black.	949.7									Loess	
3.0 <b>SILT.</b> Brown.	948.2										
5.0 <b>SAND.</b> Fine to medium sand, slightly dirty. Minor gravel to 1-1/2 inches.	946.2									Superior lobe outwash	
10.0 <b>SAND.</b> Fine sand: Very minor gravel to 1-1/2 inches.	941.2										
<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/2 inches.											
20.0	931.2										
<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1 inch.											
25.0	926.2									Superior lobe outwash	
<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1-1/2 inches.											
35.0	916.2										
<b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch.										Superior lobe outwash	
45.0	906.2										
T.D. 45 ft.											
No samples taken. Estimated less than 10 percent gravel from 5 to 45 feet.											

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1700

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,325.75 mE +/- 0.02 m 4,951,698.53 mN +/- 0.02 m  
 Elevation (ft.): 950.7 +/- 0.1 ft.  
 Ground Water Depth (ft.): 65.0  
 Ground Water Elevation (ft.): 885.7  
 Site: Muddy gravel road approximately one foot above natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/19/08 4:25 PM  
 Drilling Contractor: Traut Wells Completed: 3/20/08 5:50 PM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve		

1.0	<b>FILL.</b> Silty, sandy, gravelly.	949.7								Fill	
4.0	<b>TOPSOIL.</b> Silty, black.	946.7								Loess	
6.0	<b>SILT.</b> Sandy towards bottom of interval, brown.	944.7									
10.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/4 inches.	940.7				7.3	0.3	2.2	4.8	30.7	
	<b>SAND.</b> Fine to coarse sand. Minor gravel to 2-1/2 inches.										
20.0		930.7				15.2	2.2	2.7	10.4	54.1	
	<b>SAND.</b> Fine to medium sand, slightly dirty. Minor gravel to 1-1/2 inches.										
29.0		921.7				17.9	0.5	3.4	13.9	37.4	
	<b>SAND.</b> Fine sand. Very minor gravel to 1-1/4 inches.										
40.0		910.7				6.4	0.0	1.6	4.8	31.5	
	<b>SAND.</b> Fine sand. No gravel.										
45.0		905.7				3.2	0.0	1.2	1.9	24.2	
	<b>SAND.</b> Fine sand. Very minor trace gravel to 1 inch.										
50.0		900.7				3.0	0.0	0.0	3.0	22.1	
	<b>SAND.</b> Fine to coarse sand. Very minor trace pea gravel.										
55.0		895.7				15.0	0.0	4.7	10.3	35.5	
	<b>SAND.</b> Fine to very coarse sand. Minor gravel to 1-1/4 inches.										
60.0		890.7									
	<b>SAND.</b> Fine to coarse sand. Minor gravel to 2-1/2 inches.										
65.0		885.7				19.4	7.1	4.7	7.5	39.2	
	<b>SAND.</b> Fine to coarse sand. Very minor gravel to 3-1/2 inches.										
70.0		880.7									
	<b>SAND.</b> Fine sand. Very minor gravel to 1 inch.										
75.0		875.7									Superior

20.3% + #4

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LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1700

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,325.75 mE +/- 0.02 m 4,951,698.53 mN +/- 0.02 m  
 Elevation (ft.): 950.7 +/- 0.1 ft.  
 Ground Water Depth (ft.): 65.0  
 Ground Water Elevation (ft.): 885.7  
 Site: Muddy gravel road approximately one foot above natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/19/08 4:25 PM  
 Drilling Contractor: Traut Wells Completed: 3/20/08 5:50 PM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
80.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.				5.6	0.7	2.3	2.6	39.4	lobe outwash	
85.0	SAND. Fine sand. No gravel.										
90.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches.				9.2	0.0	2.9	6.3	25.0		
95.0	SAND. Fine to very coarse sand. Minor gravel to 2 inches.				20.9	5.2	3.8	12.0	21.1		
100.0	GRAVEL & SAND. Fine to very coarse sand, slightly dirty. Gravel to 4 inches.				60.3	28.3	13.3	18.7	38.3		
102.0	SAND. Fine to coarse sand. Very minor gravel to 1/2 inch.										
105.0	GRAVEL & SAND. Coarse to very coarse sand. Gravel to 2 inches.				29.7	2.5	7.7	19.4	29.3		
	GRAVEL & SAND. Medium to very coarse sand, slightly dirty. Gravel to 4+ inches.				50.9	12.1	13.1	25.7	40.2		
					52.2	11.7	16.1	24.4	36.5		
120.0	SAND. Fine to very coarse sand, slightly dirty. Very minor gravel to 1/2 inch.				70.6	16.4	17.8	36.4	50.3		
130.0	SAND. Fine to medium sand, slightly dirty. No gravel.										
135.0	SAND. Fine sand, slightly dirty. No gravel.										
140.0	T.D. 140 ft.										

Samples from 0 to 40 feet were extruded into 6 inch bags. Ground water level approximate.

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1800

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.84 mE +/- 0.02 m 4,951,800.12 mN +/- 0.02 m

Elevation (ft.): 951.8 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered idle field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/5/07 1:50 PM

Drilling Contractor: Braun Intertec

Completed: 12/5/07 3:25 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	<b>TOPSOIL.</b> Silty, black.										Loess	
3.0	<b>SILT.</b> Brown.											
5.0	<b>SAND.</b> Fine sand. Very minor gravel to 3/4 inch.										Superior lobe outwash <b>18.6 % + #4</b>	
	<b>SAND.</b> Fine sand: Very minor gravel to 1 inch.				6.5	0.0	1.3	5.2	32.3			
					5.8	0.0	1.3	4.5	28.8			
					6.4	0.0	2.6	3.8	24.3			
20.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 1-3/4 inches.				24.6	3.3	9.5	11.7	31.0			
25.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 1-1/2 inches.				15.1	3.1	5.4	6.6	27.3			
30.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/2 inches.				10.7	4.3	1.7	4.7	24.5			
35.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.				23.6	5.6	6.4	11.6	28.1			
40.0	<b>SAND &amp; GRAVEL.</b> Fine to very coarse sand. Gravel to 4 inches. High percentage gravel greater than 1-1/2 inches from 40 to 45 feet.				36.1	19.3	4.4	12.4	39.7			
50.0	<b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 1-1/4 inches.				39.8	16.7	4.9	18.3	33.6			
55.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.				30.7	1.7	6.5	22.5	29.9			
60.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.				19.0	6.0	3.6	9.3	23.6			
65.0	<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1-1/4 inches.				10.3	0.0	3.5	6.8	29.9			
	T.D. 65 ft.											

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1900

Page 1 of 3

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,300.58 mE +/- 0.02 m 4,951,898.32 mN +/- 0.02 m

Elevation (ft.): 953.0 +/- 0.1 ft.

Ground Water Depth (ft.): 65.5

Ground Water Elevation (ft.): 887.5

Site: Grassy area in West Research complex at natural grade.

Drilling Method: 4x6 Rotasonic

Started: 1/22/08 9:15 AM

Drilling Contractor: Traut Wells

Completed: 1/22/08 12:45 PM

Drill Rig: Versasonic

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation

Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.0 TOPSOIL. Silty, black.	951.0									Loess	
4.5 SILT. Brown, gravelly.	948.5										
5.0 SAND. Fine to medium sand, dirty. Very minor gravel to 1 inch.	948.0									32.0 % + #4	
8.0 SAND & GRAVEL. Very fine to fine sand, dirty. Gravel to 3-1/2 inches.	945.0				37.1	11.4	8.2	17.4	40.9		
15.0 SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	938.0				24.2	1.0	6.0	17.2	33.6		
SAND. Fine to medium sand. No gravel.	933.0				2.9	0.0	0.4	2.5	28.7		
20.0 SAND. Fine to medium sand, dirty. Very minor gravel to 1-1/4 inches.	930.0										
SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.					14.8	0.0	4.3	10.5	49.3		
					14.7	0.6	3.4	10.7	40.2		
39.0 GRAVEL & SAND. Medium to very coarse sand, slightly dirty. Gravel to 3/4 inch.	913.0				53.4	6.9	12.9	33.6	42.3		
45.0 GRAVEL & SAND. Medium to very coarse sand. Gravel to 2 inches. High percentage gravel. Manganese staining from 44 to 45 feet.	908.0				33.1	2.6	8.4	22.1	29.3		
52.0 SAND & GRAVEL. Medium to very coarse sand. Gravel to 2 inches.	901.0				29.5	2.6	6.9	20.0	44.9		
55.0 SAND. Fine to coarse sand. Minor gravel to 1 inch.	898.0				37.9	7.0	7.4	23.5	39.9		
SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2 inches.	891.0				29.0	2.9	8.6	17.5	57.2		
62.0 SAND. Medium to very coarse sand. Minor gravel to 2-1/4 inches.	886.0				6.1	0.5	1.1	4.5	42.0		
67.0 SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	880.0										
73.0	880.0										

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# DRILLING LOG

## HOLE NO. E1900

Page 2 of 3

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,300.58 mE +/- 0.02 m 4,951,898.32 mN +/- 0.02 m  
 Elevation (ft.): 953.0 +/- 0.1 ft.  
 Ground Water Depth (ft.): 65.5  
 Ground Water Elevation (ft.): 887.5  
 Site: Grassy area in West Research complex at natural grade.

Drilling Method: 4x6 Rotasonic Started: 1/22/08 9:15 AM  
 Drilling Contractor: Traut Wells Completed: 1/22/08 12:45 PM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		

80.0	873.0				4.4	1.5	1.0	2.0	38.1	Superior lobe outwash	
<p><b>SAND.</b> Very fine to fine sand. No gravel. (continued)</p>											
90.0	863.0										
<p><b>NO RECOVERY.</b> Probably similar to 73 to 80 foot interval.</p>											
93.0	860.0				26.5	8.4	7.7	10.4	32.6		
<p><b>SAND.</b> Very fine to fine sand. No gravel.</p>											
95.0					58.6	18.5	18.1	22.0	39.5		
<p><b>GRAVEL &amp; SAND.</b> Medium to very coarse sand, dirty from 93 to 100 feet. Gravel to 3 inches.</p>											
100.0					57.3	20.2	17.0	20.2	45.1		
105.0					59.5	13.7	20.0	25.8	37.1		
110.0	843.0				68.0	11.2	15.8	41.0	31.4		
<p><b>GRAVEL &amp; SAND.</b> Coarse to very coarse sand. Gravel to 4 inches.</p>											
120.0	833.0				66.5	25.9	15.8	24.8	42.0		
<p><b>SAND.</b> Coarse to very coarse sand. Minor gravel to 1-1/2 inches.</p>											
124.0	829.0				23.4	0.8	5.6	17.1	56.4		
<p><b>GRAVEL &amp; SAND.</b> Fine to coarse sand, dirty to very dirty. Gravel to 3-1/2 inches. Clay balls present from 132 to 134 feet.</p>											
134.0	819.0				48.3	9.9	11.9	26.5	81.5		
<p><b>SAND.</b> Very fine to fine sand, slightly dirty. No gravel.</p>											
138.0	815.0										
<p><b>SAND &amp; GRAVEL.</b> Fine to coarse sand, dirty. Gravel to 4 inches.</p>											
140.0	813.0										
<p><b>SAND.</b> Fine to medium sand, slightly dirty. No gravel. Clay balls present from 150 to 155 feet. Very minor gravel to 1-1/2 inches present towards bottom of interval.</p>											

Continued Next Page

LOG-A-GNINN08-UMORE PARK DRILLING LOGS.GPJ LOG-A-GNINN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E1900

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,300.58 mE +/- 0.02 m 4,951,898.32 mN +/- 0.02 m  
 Elevation (ft.): 953.0 +/- 0.1 ft.  
 Ground Water Depth (ft.): 65.5  
 Ground Water Elevation (ft.): 887.5  
 Site: Grassy area in West Research complex at natural grade.

Drilling Method: 4x6 Rotasonic Started: 1/22/08 9:15 AM  
 Drilling Contractor: Traut Wells Completed: 1/22/08 12:45 PM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		

<p><b>SAND.</b> Fine to medium sand, slightly dirty. No gravel. Clay balls present from 150 to 155 feet. Very minor gravel to 1-1/2 inches present towards bottom of interval. (continued)</p>	155									Prairie du Chein	
	160										
<p>161.0                      161.5                      162.0</p>	<p>792.0                      791.5                      791.0</p>			T.D. 162 ft.							
<p><b>WEATHERED LIMESTONE.</b> Clay, light brown.</p>											
<p><b>LIMESTONE.</b> Hard.</p>											

# DRILLING LOG

## HOLE NO. E2000

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,287.78 mE +/- 0.02 m 4,951,999.75 mN +/- 0.02 m

Elevation (ft.): 953.4 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered idle field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/5/07 3:30 PM

Drilling Contractor: Braun Intertec

Completed: 12/6/07 8:15 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0	TOPSOIL. Silty, black.	952.4									Loess	
3.0	SILT. Brown.	950.4										
5.0	SAND. Fine to medium sand. Very minor gravel to 2-1/4 inches.	948.4									Superior lobe outwash	19.8 % + #4
10.0	SAND. Fine to medium sand. Minor gravel to 2 inches.	943.4				17.8	4.2	3.5	10.1	42.8		
15.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.	938.4				17.8	3.9	6.6	7.3	31.6		
20.0	SAND. Fine to coarse sand. Minor gravel to 4 inches.	933.4				20.5	10.1	4.3	6.1	27.6		
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	928.4				25.2	5.4	8.0	11.8	32.0		
35.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	918.4				9.5	1.2	2.7	5.6	27.5		
40.0	SAND. Fine to medium sand. Minor gravel to 3 inches.	913.4										
45.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	908.4				13.4	7.9	2.6	3.0	41.9		
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches. High percentage pea gravel.	903.4				34.7	0.0	4.8	29.8	31.8		
55.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.	898.4				32.0	5.5	5.0	21.5	43.6		
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	893.4				19.2	0.0	3.2	16.0	27.7		
65.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.	888.4				25.1	6.5	6.6	11.9	35.6		
	T.D. 65 ft.											

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# DRILLING LOG

## HOLE NO. E2100

Page 1 of 2

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,326.94 mE +/- 0.02 m 4,952,095.75 mN +/- 0.02 m  
 Elevation (ft.): 953.3 +/- 0.1 ft.  
 Ground Water Depth (ft.): 57.0  
 Ground Water Elevation (ft.): 896.3  
 Site: Snow covered field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/19/08 10:05 AM  
 Drilling Contractor: Traut Wells Completed: 3/19/08 12:00 PM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0	TOPSOIL. Not recovered.											
4.0	SILT. Brown.									Loess		
5.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.				31.3	7.0	9.6	14.7	35.0	Superior lobe outwash	26.8 % + #4	
10.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				30.1	0.0	10.9	19.2	19.7			
16.0	SAND. Medium to very coarse sand. Very minor gravel to 1-1/4 inches.				21.4	1.2	5.9	14.3	29.7			
20.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 1-3/4 inches.				31.7	2.0	11.7	18.0	39.5			
33.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.				16.7	0.0	5.0	11.7	38.4			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				27.9	2.4	7.6	17.9	53.0			
50.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 2-1/2 inches.				25.1	5.3	6.0	13.8	40.0			
60.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				32.9	3.2	6.7	23.0	41.8			
67.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.											
73.0												

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# DRILLING LOG

## HOLE NO. E2100

Page 2 of 2

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,326.94 mE +/- 0.02 m 4,952,095.75 mN +/- 0.02 m  
 Elevation (ft.): 953.3 +/- 0.1 ft.  
 Ground Water Depth (ft.): 57.0  
 Ground Water Elevation (ft.): 896.3  
 Site: Snow covered field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/19/08 10:05 AM  
 Drilling Contractor: Traut Wells Completed: 3/19/08 12:00 PM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		

<p><b>SAND.</b> Fine to medium sand. No gravel. (continued)</p> <p>83.0 <span style="float: right;">870.3</span></p>	80										Lacustrine sediment	
<p><b>SAND.</b> Very fine sand, dirty in places. No gravel. Silt lenses from 92 to 96 feet &amp; from 99 to 100 feet.</p> <p>100.0 <span style="float: right;">853.3</span></p>	85											
<p>Ground water level approximate. Samples from 40 to 100 feet were extruded into 6 inch bags.</p>	90											
	95											
	100											
	T.D. 100 ft.											

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# DRILLING LOG

## HOLE NO. E2200

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.18 mE +/- 0.02 m 4,952,200.70 mN +/- 0.02 m

Elevation (ft.): 953.9 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/6/07 8:20 AM

Drilling Contractor: Braun Intertec

Completed: 12/6/07 9:50 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.											
6.0	SILT. Brown. Lower contact based on drill action.									Loess		
10.0	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 1-3/4 inches.				13.6	1.8	4.4	7.4	30.7	Superior lobe outwash	15.3 % + #4	
15.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/4 inches.				29.3	1.8	7.9	19.6	40.3			
20.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				5.7	0.0	1.0	4.7	22.3			
25.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				20.2	0.0	3.8	16.3	34.0			
30.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.				3.5	0.0	0.2	3.3	29.0			
35.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.											
40.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.				11.8	2.1	2.7	7.1	35.4			
45.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				19.2	2.4	4.6	12.1	29.1			
50.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch, mostly pea gravel.				19.8	1.6	5.9	12.4	27.6			
55.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch, mostly pea gravel.				18.9	0.0	2.3	16.7	23.9			
60.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4-1/2 inches.				26.1	9.2	5.0	12.0	31.4			
65.0	T.D. 65 ft.											

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E2300

Page 1 of 2

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,328.63 mE +/- 0.02 m 4,952,299.12 mN +/- 0.02 m  
 Elevation (ft.): 954.3 +/- 0.1 ft.  
 Ground Water Depth (ft.): 74.0  
 Ground Water Elevation (ft.): 880.3  
 Site: Snow covered field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/18/08 4:15 PM  
 Drilling Contractor: Traut Wells Completed: 3/19/08 9:45 AM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
0.5	TOPSOIL. Silty, black.											Loess	
1.0	SILT. Brown.												
3.0	SAND. Fine to medium sand. Very minor gravel to 1/2 inch.					36.2	10.1	9.5	16.6	57.2			
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.												
	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.					20.4	2.6	4.2	13.6	49.0			
20.0													
	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 3 inches.					35.6	4.9	12.7	18.0	35.8			
30.0													
	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 4 inches.					25.1	8.5	4.3	12.3	35.0		Superior lobe outwash	
40.0													
	SAND & GRAVEL. Fine to medium sand, slightly dirty. Gravel to 1-3/4 inches.					32.6	13.5	5.6	13.4	51.0			
45.0													
	GRAVEL & SAND. Fine to medium sand, slightly dirty. Gravel to 4 inches.												
53.0													
	SAND. Fine sand, slightly dirty. Very minor gravel to 1-1/4 inches.					21.3	5.7	4.6	11.0	51.2			
60.0													
	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches, mostly less than 1/2 inch.												
69.0													
	SAND. Fine sand. No gravel.												
74.0													

28.1 % + #4

Continued Next Page

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E2300

Page 2 of 2

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 491,328.63 mE +/- 0.02 m 4,952,299.12 mN +/- 0.02 m  
 Elevation (ft.): 954.3 +/- 0.1 ft.  
 Ground Water Depth (ft.): 74.0  
 Ground Water Elevation (ft.): 880.3  
 Site: Snow covered field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/18/08 4:15 PM  
 Drilling Contractor: Traut Wells Completed: 3/19/08 9:45 AM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		

<p><b>SAND.</b> Very fine sand, dirty to very dirty. No gravel. (continued)</p>	80									Lacustrine sediment	
	85										
	90										
	95										
100.0	100	854.3									
<p>Ground water level approximate.</p>	T.D. 100 ft.										

# DRILLING LOG

## HOLE NO. E2400

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.64 mE +/- 0.02 m 4,952,398.26 mN +/- 0.02 m

Elevation (ft.): 952.8 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Edge of snow covered field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/6/07 10:00 AM

Drilling Contractor: Braun Intertec

Completed: 12/6/07 11:40 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.5	TOPSOIL. Silty, black.	951.3									Loess		
2.0	SILT. Brown.	950.8									Superior lobe outwash	14.0 % + #4	
5.0	SAND. Fine to medium sand. Very minor gravel to 2-1/4 inches.	947.8				11.7	2.5	4.2	5.1	37.9			
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	942.8				14.7	5.6	3.6	5.5	24.1			
15.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.	937.8				28.3	10.2	5.4	12.7	38.9			
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.	932.8				14.0	2.5	4.6	6.9	28.3			
25.0	SAND. Fine to coarse sand. Very minor gravel to 2 inches.	927.8				6.4	0.0	1.0	5.4	29.2			
30.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	922.8											
35.0	SAND. Fine sand. No gravel.	917.8											
40.0	SAND. Fine sand. Very minor gravel to 2-1/2 inches.	912.8				9.5	4.2	1.5	3.8	25.8			
45.0	SAND. Fine sand. Very minor gravel to 1 inch.	907.8				19.2	2.0	5.0	12.1	29.2			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					18.3	2.3	3.7	12.3	33.2			
55.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	897.8				16.9	4.1	3.6	9.1	28.1			
60.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.	892.8											
65.0		887.8											
	T.D. 65 ft.												

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# DRILLING LOG

## HOLE NO. E2600

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,304.18 mE +/- 0.02 m 4,952,599.81 mN +/- 0.02 m

Elevation (ft.): 952.2 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/6/07 12:25 PM

Drilling Contractor: Braun Intertec

Completed: 12/6/07 2:00 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.0	TOPSOIL. Silty, black.									Loess	
4.5	SILT. Brown.										
5.0	SAND. Fine to medium sand, slightly dirty. Very minor trace gravel to 3/4 inch.				19.1	0.0	4.4	14.7	32.0	Superior lobe outwash	15.1 % + #4
10.0	SAND. Medium to very coarse sand. Minor gravel to 1 inch.				28.5	5.9	4.9	17.7	27.5		
15.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.				31.0	7.7	7.3	16.0	28.1		
20.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				15.6	0.0	4.4	11.2	25.8		
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				7.6	2.2	1.6	3.7	27.5		
30.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.				3.9	0.0	0.8	3.1	21.3		
35.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.				12.1	0.0	2.1	10.1	21.2		
45.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				20.2	4.3	3.7	12.3	27.9		
55.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				12.9	0.0	3.8	9.1	15.9		
60.0	SAND. Fine to coarse sand. Minor gravel to 3 inches, mostly less than 1 inch.				18.3	4.2	3.9	10.2	21.3		
65.0	T.D. 65 ft.										

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# DRILLING LOG

## HOLE NO. E2800

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.56 mE +/- 0.02 m 4,952,801.21 mN +/- 0.02 m

Elevation (ft.): 944.6 +/- 0.1 ft.

Ground Water Depth (ft.): 62.0

Ground Water Elevation (ft.): 882.6

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/6/07 2:05 PM

Drilling Contractor: Braun Intertec

Completed: 12/6/07 3:50 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.											
4.0	SILT. Brown.									Loess		
5.0	SAND. Fine sand. No gravel.									Superior lobe outwash	15.5 % + #4	
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				13.0	1.4	3.0	8.6	31.3			
15.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				19.3	8.3	3.5	7.5	26.1			
20.0	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.				13.4	4.0	2.2	7.2	20.4			
25.0	SAND. Fine to medium sand. Minor gravel to 3 inches.				19.1	8.1	4.5	6.5	30.8			
30.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				5.9	2.0	1.6	2.2	21.4			
35.0	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.				19.6	8.1	3.4	8.2	21.2			
40.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				14.3	1.6	3.7	8.9	20.9			
45.0	SAND. Fine sand. Very minor trace gravel to 1 inch.				4.5	0.0	1.4	3.1	20.3			
50.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				21.1	0.0	2.1	19.1	19.5			
55.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				23.7	0.0	5.8	17.9	26.2			
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				17.2	1.2	5.5	10.5	17.8			
65.0	SAND. Fine to medium sand. No gravel.											
	T.D. 65 ft.											

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# DRILLING LOG

## HOLE NO. E3000

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.83 mE +/- 0.02 m 4,953,000.45 mN +/- 0.02 m

Elevation (ft.): 949.0 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/6/07 4:00 PM

Drilling Contractor: Braun Intertec

Completed: 12/7/07 8:50 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.5	TOPSOIL. Silty, black.	947.5									Loess		
3.5	SILT. Brown.	945.5											
5.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1 inch.	944.0									Superior lobe outwash	26.9 % + #4	
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches.	939.0				27.5	0.5	6.5	20.5	42.6			
15.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.	934.0				21.4	6.4	6.3	8.7	28.2			
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.					27.7	5.2	6.5	16.0	32.6			
25.0		924.0				31.0	10.5	6.1	14.4	31.9			
30.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.	919.0									Superior lobe outwash		
40.0	SAND. Very fine to fine sand. No gravel. Thin silt lens in 35 to 40 foot interval.	909.0											
45.0	SAND. Fine sand. No gravel.	904.0											
55.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	894.0											
60.0	SAND. Fine sand. Very minor trace gravel to 1-1/4 inches.	889.0											
65.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	884.0											
	T.D. 65 ft.												

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# DRILLING LOG

## HOLE NO. E3200

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,300.34 mE +/- 0.02 m 4,953,201.12 mN +/- 0.02 m

Elevation (ft.): 951.4 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/7/07 9:00 AM

Drilling Contractor: Braun Intertec

Completed: 12/7/07 10:50 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
5.0	SILT. Brown.											
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.				6.0	0.0	1.1	4.9	23.0	Superior lobe outwash	16.1 % + #4	
20.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.				8.2	0.0	2.9	5.3	23.3			
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				14.2	3.6	2.9	7.6	24.7			
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				14.9	1.3	3.4	10.3	29.3			
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				25.3	8.5	5.5	11.3	27.9			
45.0	SAND. Very fine to fine sand. No gravel. Six-inch thick silt lens near 42 feet.				28.4	12.7	4.5	11.2	26.4	Lacustrine sediment		
60.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.									Superior lobe outwash		
65.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.											
	T.D. 65 ft.											

No samples taken below 35 feet - too sandy. Good material starts again at 60 feet.

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E3400

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,299.97 mE +/- 0.02 m 4,953,399.87 mN +/- 0.02 m

Elevation (ft.): 956.8 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/7/07 11:00 AM

Drilling Contractor: Braun Intertec

Completed: 12/7/07 12:35 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 3/4 inch.					11.1	0.0	0.6	10.5	32.4	Superior lobe outwash 21.7% + #4	
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.					2.6	0.0	0.7	1.9	23.7		
20.0												
	SAND. Fine to coarse sand. Minor gravel to 2 inches.					22.0	5.9	5.9	10.2	28.2		
25.0												
	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.					30.6	12.1	4.1	14.5	27.4		
30.0												
	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch.					27.8	0.0	6.5	21.3	33.4		
35.0												
	GRAVEL & SAND. Fine to coarse sand. Gravel to 2-1/2 inches.					40.5	6.0	6.5	28.0	33.7		
40.0												
	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 1-1/2 inches. Very rocky (drill action) from 40 to 44 feet.					35.8	0.0	6.5	29.3	28.3		
45.0												
	SAND. Fine to medium sand. Minor gravel to 1 inch.					16.0	0.0	3.9	12.1	17.7		
50.0												
	SAND. Fine to medium sand. Very minor gravel to 1 inch.					14.7	0.0	2.9	11.8	17.2		
55.0												
	SAND. Fine to medium sand. Minor gravel to 2 inches.					24.4	12.5	2.6	9.3	17.5		
60.0												
	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches. High percentage gravel greater than 1-1/2 inches.					36.6	16.5	5.2	14.8	26.4		
65.0												
	T.D. 65 ft.											

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. E3600

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

491,300.19 mE +/- 0.02 m 4,953,599.54 mN +/- 0.02 m

Elevation (ft.): 959.0 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/7/07 1:15 PM

Drilling Contractor: Braun Intertec

Completed: 12/7/07 2:30 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.5	<b>TOPSOIL.</b> Silty, black.										Loess
3.0	<b>SILT.</b> Brown.										
5.0	<b>SAND &amp; GRAVEL.</b> Fine to coarse sand, slightly dirty. Gravel to 2-1/2 inches.					28.1	0.0	8.0	20.1	28.3	Superior lobe outwash <b>17.8% + #4</b>
10.0	<b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 1-1/2 inches.					11.2	0.0	3.5	7.7	22.8	
15.0	<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1 inch.					23.7	5.4	6.0	12.2	32.1	
20.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.					20.2	5.2	5.8	9.1	36.0	
25.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.					12.6	5.2	2.7	4.7	30.0	
30.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 2-1/2 inches.					12.3	0.0	4.4	7.9	27.0	
35.0	<b>SAND.</b> Fine to coarse sand. Very minor gravel to 2-1/2 inches.					14.9	1.4	5.5	8.0	27.4	
40.0	<b>SAND.</b> Fine to coarse sand. Very minor gravel to 2 inches.					8.7	1.5	2.0	5.2	26.5	
45.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch. Higher percentage gravel indicated by drill action.					7.9	0.0	1.7	6.2	17.3	
50.0	<b>SAND &amp; GRAVEL.</b> Fine to medium sand. Gravel to 3-1/2 inches.					29.0	16.3	4.3	8.5	29.3	
55.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 1-3/4 inches.					22.2	8.0	4.2	10.1	30.8	
60.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 2-1/2 inches.					18.2	2.2	4.7	11.3	29.9	
65.0	T.D. 65 ft.										

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE0100

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,880.62 mE +/- 0.02 m 4,950,102.78 mN +/- 0.02 m  
 Elevation (ft.): 935.2 +/- 0.1 ft.  
 Ground Water Depth (ft.): 55.0  
 Ground Water Elevation (ft.): 880.2  
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/30/07 7:40 AM  
 Drilling Contractor: Braun Intertec Completed: 10/30/07 9:00 AM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.										Superior lobe outwash	18.5% + #4
	SAND. Fine to coarse sand. Minor gravel to 2 inches.											
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 5 inches.											
20.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.											
25.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.											
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.											
35.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
40.0	SAND. Fine sand. Very minor gravel to 3 inches.											
45.0	SAND. Fine sand. Very minor gravel to 3-1/2 inches.											
50.0	SAND. Fine to medium sand. No gravel.											
55.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches, mostly pea gravel.											
60.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches, mostly pea gravel.											
65.0	T.D. 65 ft.											

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE0300

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,881.20 mE +/- 0.02 m 4,950,299.93 mN +/- 0.02 m  
 Elevation (ft.): 936.2 +/- 0.1 ft.  
 Ground Water Depth (ft.): 56.0  
 Ground Water Elevation (ft.): 880.2  
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/30/07 9:05 AM  
 Drilling Contractor: Braun Intertec Completed: 10/30/07 10:15 AM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.0 <b>TOPSOIL.</b> Silty, black.	935.2									Loess	
3.0 <b>SILT.</b> Brown.	933.2										
5.0 <b>SAND.</b> Fine to medium sand, dirty. Very minor gravel to 1-1/4 inches.	931.2				5.7	0.0	1.4	4.3	26.5	Superior lobe outwash	13.4 % + #4
10.0 <b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch.	926.2				8.1	0.0	1.4	6.7	20.8		
15.0 <b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch.	921.2				11.3	0.0	1.8	9.5	17.5		
20.0 <b>SAND.</b> Fine sand, slightly dirty. Very minor gravel to 1 inch. Thin (1 inch) silt lenses present.	916.2				2.7	0.0	0.1	2.5	23.5		
25.0 <b>SAND.</b> Fine sand. Very minor trace gravel to 3/4 inch.	911.2				19.6	3.8	4.2	11.6	26.0		
30.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 2-1/2 inches.	906.2				19.5	0.8	2.7	16.0	25.8		
35.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 1-1/2 inches.	901.2				16.4	0.8	5.1	10.5	25.1		
40.0 <b>SAND.</b> Fine to coarse sand. Minor gravel to 2-1/2 inches.	896.2				27.2	2.9	5.3	19.0	28.7		
45.0 <b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 1-1/2 inches.	891.2										
50.0 <b>SAND.</b> Fine to medium sand. No gravel.	886.2										
55.0 <b>SAND.</b> Fine sand. No gravel.	881.2										
60.0 <b>SAND.</b> Fine to coarse sand. Very minor gravel to 1/2 inch.	876.2										
65.0 <b>SAND.</b> Fine to coarse sand. Very minor gravel to 1-1/2 inches.	871.2										
	T.D. 65 ft.										

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE0500

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,900.37 mE +/- 0.02 m 4,950,502.67 mN +/- 0.02 m  
 Elevation (ft.): 935.9 +/- 0.1 ft.  
 Ground Water Depth (ft.): Ground water not encountered  
 Ground Water Elevation (ft.):  
 Site: Alfalfa field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/30/07 10:25 AM  
 Drilling Contractor: Braun Intertec Completed: 10/30/07 11:00 AM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve		

1.0	<b>TOPSOIL.</b> Silty, black.	934.9								Loess	
2.0	<b>SILT.</b> Brown.	933.9								Superior lobe outwash	
5.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/4 inches.	930.9									
13.0	<b>NO RECOVERY.</b> Assumed similar to above. Lower contact estimated.	922.9								St. Peter Sandstone	
	<b>SANDSTONE.</b> Very fine sand, white.										
25.0		910.9									

T.D. 25 ft.  
 No samples taken. Samples from the upper part of the 5 to 25 foot run were displaced while penetrating the sandstone below.

LOG A GNINN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNINN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE0700

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

493,899.68 mE +/- 0.02 m 4,950,700.33 mN +/- 0.02 m

Elevation (ft.): 937.8 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Alfalfa field at natural grade.

Drilling Method: 9-inch flight auger

Started: 10/30/07 11:05 AM

Drilling Contractor: Braun Intertec

Completed: 10/30/07 12:00 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.5 <b>TOPSOIL.</b> Silty, black.	936.3										Loess		
3.0 <b>SILT.</b> Brown.	934.8												
5.0 <b>SAND.</b> Very fine sand, dirty. No gravel.	932.8										Superior lobe outwash	13.5 % + #4	
<b>SAND.</b> Fine sand. Very minor gravel to 1-1/2 inches.	927.8				13.8	2.9	4.7	6.2	21.0				
<b>SAND.</b> Fine sand. Very minor trace gravel to 3/4 inch.	920.0				3.2	0.0	1.3	1.9	20.5				
<b>SAND.</b> Fine to coarse sand. Minor gravel to 1 inch.	917.8				2.1	0.0	0.6	1.5	17.0				
<b>SAND.</b> Fine to coarse sand. Minor gravel to 1 inch.	910.0				14.3	0.0	2.5	11.8	29.6				
30.0 <b>SAND &amp; GRAVEL.</b> Fine to medium sand. Gravel to 3/4 inch.	907.8				22.7	0.9	1.9	19.9	25.2		St. Peter Sandstone		
35.0 <b>SAND &amp; GRAVEL.</b> Fine to medium sand. Gravel to 3/4 inch.	902.8				25.0	0.0	1.2	23.7	16.4				
39.0 <b>NO RECOVERY.</b> Due to hard drilling from 39 to 45 feet the samples were displaced. Assumed same as 30 to 35 based on drill action.	898.8												
45.0 <b>SANDSTONE.</b> Very fine sand, white, hard.	892.8												
T.D. 45 ft.													

LOG A GNINN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNINN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE0900

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

493,901.04 mE +/- 0.02 m 4,950,899.32 mN +/- 0.02 m

Elevation (ft.): 937.4 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 10/31/07 2:15 PM

Drilling Contractor: Braun Intertec

Completed: 10/31/07 3:15 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
4.0	SILT. Brown.											
5.0	SAND. Fine sand, slightly dirty. No gravel.										Superior lobe outwash	30.3 % + #4
	SAND. Fine to coarse sand. Minor gravel to 2 inches.				18.9	3.4	5.4	10.1	28.1			
15.0					19.9	3.3	4.3	12.3	23.2			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				32.8	8.1	10.6	14.1	26.6			
20.0					35.1	3.8	10.6	20.7	28.1			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches. Very rocky (drill action) from 20 to 25 feet.				31.6	0.8	10.3	20.5	24.8			
25.0					32.7	6.7	11.8	14.2	21.5			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				47.0	20.7	13.1	13.1	18.3			
30.0										St. Peter Sandstone		
	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.											
35.0												
	GRAVEL & SAND. Fine to coarse sand. Gravel to 3-1/2 inches. Lower contact based on drill action.											
39.0												
	SANDSTONE. Very fine sand, white.											
45.0												
	T.D. 45 ft.											

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE1100

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

493,899.66 mE +/- 0.02 m 4,951,102.18 mN +/- 0.02 m

Elevation (ft.): 937.0 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Idle field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/1/07 9:10 AM

Drilling Contractor: Braun Intertec

Completed: 11/1/07 10:55 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation  
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
1.0 <b>TOPSOIL.</b> Silty, black.	936.0									Loess	
5.0 <b>SILT.</b> Sandy from 4.5 to 5 feet, brown.	932.0										
<b>SAND &amp; GRAVEL.</b> Fine sand. Gravel to 3-1/2 inches.					31.4	26.5	1.0	3.8	20.3	Superior lobe outwash	34.5 % + #4
15.0	922.0				35.5	16.6	11.4	7.4	22.6		
<b>SAND &amp; GRAVEL.</b> Fine to medium sand. Gravel to 3 inches.	20.0	917.0			31.4	18.0	6.9	6.6	25.4		
<b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 2 inches.	25.0				33.2	4.3	10.4	18.5	26.4		
	30.0				34.2	1.4	8.7	24.1	25.4		
	35.0				37.5	2.4	10.1	25.1	29.5		
40.0	897.0				37.9	5.9	13.0	19.0	25.3		
<b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 3-1/2 inches. Very rocky (drill action) from 40 to 41 feet.	45.0	892.0			34.6	1.0	5.8	27.8	38.6		
47.0 <b>NO RECOVERY.</b> Similar to 40 to 45 based on drill action.	890.0									St. Peter Sandstone	
<b>SANDSTONE.</b> Very fine sand, white to yellowish brown.	55.0	882.0									
T.D. 55 ft.	55										

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE1300

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,899.72 mE +/- 0.02 m 4,951,300.25 mN +/- 0.02 m  
 Elevation (ft.): 939.8 +/- 0.1 ft.  
 Ground Water Depth (ft.): 60.0  
 Ground Water Elevation (ft.): 879.8  
 Site: Idle field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/1/07 11:05 AM  
 Drilling Contractor: Braun Intertec Completed: 11/1/07 1:30 PM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
2.0	TOPSOIL. Silty, black.										Loess		
4.5	SILT. Brown.												
5.0	SAND. Fine sand, dirty. Very minor trace gravel to 1/2 inch.				4.7	0.0	0.8	3.9	20.9	Superior lobe outwash	25.7 % + #4		
10.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.				23.1	10.9	6.3	5.9	21.5				
15.0	SAND. Fine to medium sand. Minor gravel to 3-1/2 inches.				15.0	0.0	3.4	11.6	23.6				
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				25.9	1.0	7.9	17.0	30.1				
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				33.7	6.5	11.6	15.6	22.5				
35.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches.				36.5	6.1	13.2	17.2	26.1				
40.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty, iron stained from 43 to 45 feet. Gravel to 3 inches.				35.7	3.5	12.2	19.9	21.6				
45.0	SAND. Fine to coarse sand, slightly iron stained. Very minor gravel to 1-1/4 inches.				31.0	2.4	8.6	20.0	31.7				
50.0	SAND. Fine to medium sand, slightly iron stained. Very minor trace gravel to 1-1/4 inches.												
60.0	SAND. Fine to medium sand, slightly iron stained. No gravel.												
65.0	T.D. 65 ft.												

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE1400

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,899.37 mE +/- 0.02 m 4,951,399.83 mN +/- 0.02 m  
 Elevation (ft.): 938.8 +/- 0.1 ft.  
 Ground Water Depth (ft.): 63.0  
 Ground Water Elevation (ft.): 875.8  
 Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger Started: 3/5/08 2:40 PM  
 Drilling Contractor: Braun Intertec Completed: 3/5/08 4:05 PM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.5	TOPSOIL. Silty, black.									Loess	
3.0	SILT. Brown.										
5.0	SAND. Fine to medium sand. Minor gravel to 2 inches.					13.0	3.3	3.4	6.3	30.3	Superior lobe outwash
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.										
15.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.					6.4	0.7	1.3	4.3	28.6	
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.										
25.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.					23.3	9.2	6.3	7.8	31.3	
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.					28.4	3.3	11.6	13.5	31.2	
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					28.9	5.2	7.4	16.2	27.3	16.5 % + #4
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					20.6	2.0	8.0	10.6	33.3	
45.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.					6.5	1.3	4.1	1.0	16.3	
50.0	SAND. Fine to very coarse sand, very dirty & very iron stained. Very minor gravel to 1 inch.										Older outwash
65.0											
	T.D. 65 ft.										

LOG A GNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE1500

Page 1 of 1

Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,899.82 mE +/- 0.02 m 4,951,503.57 mN +/- 0.02 m  
 Elevation (ft.): 938.2 +/- 0.1 ft.  
 Ground Water Depth (ft.): 63.0  
 Ground Water Elevation (ft.): 875.2  
 Site: Idle field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/1/07 1:40 PM  
 Drilling Contractor: Braun Intertec Completed: 11/1/07 3:05 PM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.5 <b>TOPSOIL.</b> Silty, black.	936.7									Loess	
3.5 <b>SILT.</b> Brown.	934.7										
5.0 <b>SAND.</b> Fine sand, slightly dirty. Very minor trace gravel to 1 inch.	933.2									Superior lobe outwash	16.8% + #4
<b>SAND.</b> Fine sand: Very minor trace gravel to 3/4 inch.					3.7	0.0	0.2	3.5	30.3		
15.0	923.2				3.1	0.0	0.1	3.0	19.6		
<b>SAND.</b> Fine sand. Very minor gravel to 2 inches.					7.4	5.0	0.6	1.8	18.0		
20.0	918.2				17.4	0.8	8.3	8.3	28.2		
<b>SAND.</b> Fine to medium sand. Minor gravel to 1-1/2 inches.					21.7	8.7	3.3	9.6	22.9		
25.0	913.2				12.1	0.0	1.3	10.8	21.2		
<b>SAND.</b> Fine to coarse sand. Minor gravel to 4-1/2 inches.					6.7	0.0	0.8	5.9	16.5		
30.0	908.2				7.9	0.0	1.6	6.3	23.4		
<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1 inch.					34.3	16.0	3.8	14.4	17.6		
35.0	903.2				30.7	15.6	2.0	13.2	24.6		
<b>SAND.</b> Fine sand. Very minor gravel to 3/4 inch.					40.5	29.2	2.1	9.2	27.1		
40.0	898.2				19.8	2.9	4.8	12.2	25.6		
<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/4 inches.											
45.0	893.2										
<b>SAND &amp; GRAVEL.</b> Fine to coarse sand, slightly dirty. Gravel to 5 inches.											
55.0	883.2										
<b>GRAVEL &amp; SAND.</b> Fine to coarse sand. Gravel to 5 inches.											
60.0	878.2										
<b>SAND.</b> Fine to coarse sand. Minor gravel to 2 inches.											
65.0	873.2										
	T.D. 65 ft.										

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08



# DRILLING LOG

## HOLE NO. EE2600

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,893.68 mE +/- 0.02 m 4,952,597.34 mN +/- 0.02 m  
 Elevation (ft.): 939.1 +/- 0.1 ft.  
 Ground Water Depth (ft.): 77.0  
 Ground Water Elevation (ft.): 862.1  
 Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/29/08 7:45 AM  
 Drilling Contractor: Traut Wells Completed: 2/29/08 10:15 AM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

Interval (ft.)	Description	Elevation (ft.)	Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
								Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.5	<b>TOPSOIL.</b> Silty, black.	937.6												
4.0	<b>SILT.</b> Sandy towards bottom of interval, brown.	935.1											Loess	
10.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 2 inches.	929.1		5				8.4	2.7	0.9	4.8	36.8		
15.0	<b>SAND.</b> Medium to very coarse sand. Minor gravel to 1-1/2 inches. Two-inch-thick iron-stained layer at 14 feet.	924.1		10				18.8	1.1	4.4	13.3	24.7		
20.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 3 inches.	919.1		15				10.0	3.9	1.3	4.8	29.9		
25.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 2-1/2 inches.	914.1		20				10.4	6.0	1.1	3.2	38.6		
30.0	<b>GRAVEL &amp; SAND.</b> Fine to very coarse sand. Gravel to 3 inches.	909.1		25				42.3	11.1	11.9	19.4	46.3		
35.0	<b>GRAVEL &amp; SAND.</b> Fine to very coarse sand. Gravel to 3-1/2 inches.	904.1		30				46.7	16.3	10.8	19.5	29.6		
40.0	<b>SAND &amp; GRAVEL.</b> Fine to very coarse sand. Gravel to 2 inches.	899.1		35				29.6	4.8	9.1	15.8	40.0		
45.0	<b>SAND &amp; GRAVEL.</b> Fine to very coarse sand, slightly dirty. Gravel to 2-1/2 inches.	894.1		40				37.1	3.7	9.1	24.4	34.5		
50.0	<b>SAND &amp; GRAVEL.</b> Medium to very coarse sand. Gravel to 4 inches, mostly less than 1-1/2 inches.	889.1		45				35.3	6.6	6.1	22.6	34.0		
60.0	<b>SAND.</b> Fine to coarse sand. Minor gravel to 2 inches.	879.1		50				16.7	1.5	4.0	11.2	27.9	Superior lobe outwash	
65.0	<b>SAND.</b> Fine to coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.	879.1		55				20.6	4.0	2.6	14.0	36.8		
70.0	<b>SAND.</b> Fine to very coarse sand. Very minor gravel to 1-1/2 inches.	869.1		60				16.6	0.0	4.5	12.0	37.0		
				65										
				70										
				75										

23.4% + #4

Continued Next Page

LOG A GNNIN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNIN08.GDT Printed 5/30/08

# DRILLING LOG

## HOLE NO. EE2600

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 493,893.68 mE +/- 0.02 m 4,952,597.34 mN +/- 0.02 m  
 Elevation (ft.): 939.1 +/- 0.1 ft.  
 Ground Water Depth (ft.): 77.0  
 Ground Water Elevation (ft.): 862.1  
 Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/29/08 7:45 AM  
 Drilling Contractor: Traut Wells Completed: 2/29/08 10:15 AM  
 Drill Rig: Versasonic Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
80.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches. (continued)				14.2	0.0	1.2	13.0	43.3		
85.0	SAND & GRAVEL. Fine to very coarse sand, dirty from 80 to 82 feet. Gravel to 1-3/4 inches.				26.1	1.1	8.3	16.7	54.7		
90.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.				30.4	11.5	4.5	14.4	45.0		
97.0	ROCK.									Older outwash	
97.5	SAND. Very fine sand, dirty & iron stained. No gravel except for 6 inches of minor gravel to 2 inches at 106 feet.										
109.0	TILL. Sandy, brown.										
114.0	SAND. Fine to medium sand, dirty & iron stained. No gravel.									Older outwash	
115.0	SAND. Very fine sand, iron stained. No gravel.										
120.0	T.D. 120 ft.										

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# DRILLING LOG

## HOLE NO. EE2700

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

493,899.64 mE +/- 0.02 m 4,952,698.99 mN +/- 0.02 m

Elevation (ft.): 939.4 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger

Started: 1/22/08 1:00 PM

Drilling Contractor: Braun Intertec

Completed: 1/22/08 2:15 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0 <b>TOPSOIL.</b> Silty, black	938.4										Loess	
3.0 <b>SILT.</b> Brown.	936.4											
5.0 <b>SAND.</b> Fine to medium sand. Very minor gravel to 3/4 inch.	934.4										Superior lobe outwash	15.1 % + #4
<b>SAND.</b> Fine to medium sand. No gravel.					3.9	0.0	1.3	2.7	28.7			
15.0	924.4											
<b>SAND.</b> Fine to medium sand. Very minor trace gravel to 1/2 inch.	20.0				11.0	2.5	3.7	4.8	25.7			
<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/2 inches.												
30.0	909.4				14.7	3.0	4.3	7.4	28.8			
<b>SAND.</b> Fine to coarse sand. Minor gravel to 2-1/2 inches.	35.0				21.2	8.6	5.3	7.4	31.3			
<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.	40.0				24.4	13.7	2.5	8.3	33.8			
<b>SAND &amp; GRAVEL.</b> Fine to coarse sand. Gravel to 1-3/4 inches.	45.0				28.5	5.6	9.0	14.0	33.8			
<b>SAND.</b> Fine to coarse sand. Minor gravel to 2 inches.	50.0				15.2	3.8	5.7	5.7	25.4			
<b>SAND.</b> Fine to coarse sand. Minor gravel to 3 inches.	55.0				22.0	14.2	3.5	4.2	26.4			
<b>SAND.</b> Fine to coarse sand. Very minor gravel to 2 inches.	60.0				14.1	5.3	3.3	5.5	22.6			
<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1-1/2 inches.	65.0											
	T.D. 65 ft.											

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# DRILLING LOG

## HOLE NO. EE2900

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88  
 494,002.04 mE +/- 0.02 m 4,952,875.33 mN +/- 0.02 m  
 Elevation (ft.): 913.7 +/- 0.1 ft.  
 Ground Water Depth (ft.): 29.0  
 Ground Water Elevation (ft.): 884.7  
 Site: Snow covered low area at natural grade.

Drilling Method: 9-inch flight auger Started: 1/22/08 10:30 AM  
 Drilling Contractor: Braun Intertec Completed: 1/22/08 12:00 PM  
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
<b>TOPSOIL.</b> Silty, black.	4.0										Loess	
	909.7											
<b>SILT.</b> Brownish gray. Lower contact based on drill action.	6.0										Superior lobe outwash	15.8 % + #4
	907.7											
<b>SAND.</b> Fine to medium sand. Very minor trace gravel to 3/4 inch.	10.0											
<b>SAND.</b> Fine to medium sand. No gravel.	15.0				2.4	0.0	0.1	2.3	23.0			
<b>SAND.</b> Fine to medium sand. Very minor trace gravel to 1 inch.	20.0				3.4	0.0	0.3	3.1	22.4			
<b>SAND.</b> Fine to medium sand. No gravel.	25.0											
<b>SAND.</b> Fine to very coarse sand. Minor gravel to 1-3/4 inches.	30.0				20.2	2.8	5.9	11.5	28.9			
	35.0				16.1	1.0	3.1	12.0	28.4			
<b>SAND &amp; GRAVEL.</b> Fine to very coarse sand. Gravel to 2 inches.	40.0				28.9	3.0	5.3	20.6	28.9			
<b>SAND.</b> Fine to very coarse sand. Minor gravel to 1-3/4 inches.	45.0				15.5	1.8	2.9	10.8	18.4			
<b>SAND.</b> Fine to coarse sand. Very minor gravel to 1-3/4 inches.	50.0				14.1	3.0	1.3	9.8	23.2			
<b>SAND.</b> Fine to very coarse sand. Minor gravel to 1 inch, mostly pea gravel.	55.0				21.8	0.0	1.9	19.9	35.4			
<b>SAND.</b> Fine to very coarse sand. Minor gravel to 4-1/2 inches, mostly less than 3/4 inch.	60.0				20.2	7.1	1.4	11.7	30.7			
<b>SAND.</b> Fine to coarse sand. Minor gravel to 1-1/2 inches.	65.0				15.3	1.1	3.5	10.8	32.7			
	T.D. 65 ft.											

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# DRILLING LOG

## HOLE NO. EE3100

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Property: UMore Park Property

Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88

493,839.48 mE +/- 0.02 m 4,953,076.75 mN +/- 0.02 m

Elevation (ft.): 927.3 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water not encountered

Ground Water Elevation (ft.):

Site: Snow covered grassy area inside fence at former Navy facility at natural grade.

Drilling Method: 9-inch flight auger

Started: 1/21/08 12:45 PM

Drilling Contractor: Braun Intertec

Completed: 1/21/08 1:35 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

### DRILLING & SAMPLING

### TEST RESULTS (%)

Geologic Interpretation  
Economic Classification

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.0	<b>TOPSOIL.</b> Silty, black.										
6.0	<b>SILT.</b> Brown. Lower contact based on drill action.									Loess	
10.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-3/4 inches.									Superior lobe outwash	
15.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1 inch.										
20.0	<b>SAND.</b> Fine to medium sand. Very minor trace gravel to 3/4 inch.										
25.0	<b>SAND.</b> Fine sand. Very minor gravel to 1/2 inch.										
30.0	<b>SAND.</b> Fine to medium sand. Very minor gravel to 1-1/2 inches.									Lacustrine sediment	
32.0	<b>SILT.</b> Brown.										
35.0	<b>SAND.</b> Very fine sand. No gravel.										
T.D. 35 ft.											
No samples taken. Estimated less than 10 percent gravel from 6 to 30 feet.											

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