

DRILLING LOG

HOLE NO. A0000

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,849.11 mE +/- 0.02 m 4,950,000.44 mN +/- 0.02 m
 Elevation (ft.): 947.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 54.5
 Ground Water Elevation (ft.): 892.7
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/6/07 12:15 PM
 Drilling Contractor: Braun Intertec Completed: 11/6/07 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)		
2.0	TOPSOIL. Silty, black.	945.2								Loess	
5.0	SILT. Brown.	942.2									
15.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.	932.2			2.8	0.0	0.1	2.7	15.9	Superior lobe outwash	10.2% + #4
20.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	927.2			2.7	0.0	0.2	2.5	20.1		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	922.2			5.8	0.0	1.1	4.8	20.8		
30.0	SAND. Fine to medium sand. Very minor trace gravel to 1-3/4 inches.	917.2			13.8	0.8	1.6	11.4	25.7		
35.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	912.2			3.2	1.3	0.0	1.8	21.1		
40.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	907.2			6.2	3.5	0.0	2.7	20.8		
45.0	SAND. Fine to coarse sand. Very minor gravel to 4 inches, mostly less than 1-1/4 inches.	902.2			6.7	0.0	2.0	4.7	22.5		
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	897.2			14.7	7.0	2.0	5.6	26.4		
55.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 5 inches.	892.2			17.9	0.0	3.8	14.0	16.0		
60.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.	887.2			27.8	14.4	3.5	9.9	23.0		
65.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	882.2									
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. A0200

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,849.40 mE +/- 0.02 m 4,950,199.41 mN +/- 0.02 m
 Elevation (ft.): 948.4 +/- 0.1 ft.
 Ground Water Depth (ft.): 57.0
 Ground Water Elevation (ft.): 891.4
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/6/07 10:10 AM
 Drilling Contractor: Braun Intertec Completed: 11/6/07 11:35 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.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine sand, slightly dirty. Very minor gravel to 1 inch.					12.6	0.0	1.3	11.3	39.1	Superior lobe outwash	16.3 % + #4
10.0	SAND. Fine to coarse sand. Very minor gravel to 1/2 inch.					15.5	2.6	1.8	11.1	29.1		
15.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					12.8	1.0	3.8	8.0	25.0		
20.0	SAND. Fine sand. Very minor trace gravel to 1 inch.					3.9	0.0	0.5	3.4	26.8		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.					14.5	2.2	4.4	8.0	22.5		
30.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					23.6	5.5	6.7	11.4	22.7		
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3-1/2 inches.					28.0	4.5	4.2	19.2	26.1		
40.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.					10.6	0.0	3.4	7.1	29.3		
45.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					18.4	2.9	2.7	12.8	21.9		
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches, mostly pea gravel.					20.4	1.1	2.4	16.9	19.9		
60.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 1 inch, mostly pea gravel. Small sample volume due to displacement by clay below.					19.2	0.0	1.2	18.0	21.0	Lacustrine sediment	
63.0	CLAY. Brown & reddish brown.											
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. A0400

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,850.01 mE +/- 0.02 m 4,950,400.03 mN +/- 0.02 m
 Elevation (ft.): 949.1 +/- 0.1 ft.
 Ground Water Depth (ft.): 56.0
 Ground Water Elevation (ft.): 893.1
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/6/07 8:50 AM
 Drilling Contractor: Braun Intertec Completed: 11/6/07 10:05 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)		
1.0	TOPSOIL. Silty, black.									Loess	
5.0	SILT. Brown. Some gravel present.										
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				18.2	0.0	4.7	13.5	25.5	Superior lobe outwash	16.5 % + #4
15.0	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.				20.7	7.6	4.8	8.3	24.8		
20.0	SAND. Fine sand. Very minor gravel to 1 inch.				6.5	0.0	1.7	4.9	20.6		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				11.7	1.2	3.5	7.0	25.4		
30.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.				8.1	0.0	1.8	6.3	24.0		
35.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.				13.6	2.3	4.9	6.4	25.6		
40.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				17.1	0.0	4.8	12.2	23.9		
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.				26.2	2.5	9.8	13.9	30.1		
50.0	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.				16.3	7.2	3.5	5.7	21.6		
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				9.3	0.0	2.8	6.5	22.1		
60.0	SAND. Fine to coarse sand. Minor gravel to 5 inches, mostly less than 1 inch.				21.8	12.4	0.5	8.9	25.1		
65.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 1-1/2 inches.				27.7	0.0	5.1	22.6	31.8		
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. A0700

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,903.70 mE +/- 0.02 m 4,950,692.82 mN +/- 0.02 m

Elevation (ft.): 949.9 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 4/17/08 3:10 PM

Drilling Contractor: Braun Intertec

Completed: 4/17/08 4:40 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	
4.5	SILT. Brown.											
5.0	SAND. Fine to very coarse sand. Very minor gravel to 1/2 inch.				18.8	2.8	6.3	9.8	31.1	Superior lobe outwash	24.5% + #4	
10.0	SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.				26.8	18.4	2.8	5.6	30.4			
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4-1/2 inches.				12.4	5.6	2.6	4.1	29.3			
20.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.				33.7	3.9	8.5	21.3	35.4			
25.0	SAND. Fine to coarse sand. Very minor gravel to 2-1/4 inches.				32.6	7.9	5.0	19.7	39.8			
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.				30.2	4.6	5.7	19.8	36.3			
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.				33.0	7.0	7.4	18.6	38.8			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				21.6	1.1	5.0	15.6	22.1			
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.											
51.5	SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.											
52.0	TILL. Silty, red.									Till		
	T.D. 52 ft.											

LOG A GNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. A0800

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,851.27 mE +/- 0.02 m 4,950,800.31 mN +/- 0.02 m
 Elevation (ft.): 950.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 59.0
 Ground Water Elevation (ft.): 891.2
 Site: Soybean field at natural grade.

Drilling Method: 9-inch flight auger Started: 9/19/07 12:40 PM
 Drilling Contractor: WDC Completed: 9/19/07 3:10 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	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. No gravel.					17.3	1.5	7.4	8.4	24.0	Superior lobe outwash	23.4% + #4
10.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					30.3	9.1	6.3	14.9	28.6		
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 6 inches, mostly less than 1 inch.					18.1	3.0	5.3	9.8	25.9		
20.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					17.5	2.0	5.1	10.5	31.8		
25.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.					9.6	0.7	1.8	7.1	27.4		
30.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.					34.2	0.0	4.8	29.4	30.7		
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch.					39.1	15.0	7.9	16.1	36.1		
40.0	SAND. Fine sand, clean. No gravel.											
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. A1000

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,851.29 mE +/- 0.02 m 4,950,998.91 mN +/- 0.02 m
 Elevation (ft.): 946.8 +/- 0.1 ft.
 Ground Water Depth (ft.): 57.0
 Ground Water Elevation (ft.): 889.8
 Site: Soybean field at natural grade.

Drilling Method: 9-inch flight auger Started: 9/19/07 10:05 AM
 Drilling Contractor: WDC Completed: 9/19/07 12:25 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)				
1.0	TOPSOIL. Silty, black.										Loess		
5.0	SILT. Brown.												
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				15.7	0.6	3.3	11.8	30.3	Superior lobe outwash	20.9 % + #4		
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				10.6	0.0	2.6	8.0	23.2				
20.0	SAND. Fine to medium sand. Minor gravel to 2 inches.				19.4	3.3	4.9	11.2	30.3				
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				13.3	0.0	3.2	10.1	20.7				
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				21.9	1.4	4.8	15.8	24.8				
35.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				21.7	4.2	3.8	13.7	25.9				
40.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				18.2	1.3	2.9	14.0	24.5				
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.				25.4	1.6	4.2	19.6	27.5				
50.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				24.9	4.4	3.0	17.5	14.4				
55.0	SAND & GRAVEL. Medium to coarse sand. Gravel to 1 inch.				27.8	0.0	6.1	21.7	25.3				
60.0	SAND & GRAVEL. Medium to coarse sand. Gravel to 1-1/2 inches.				28.9	1.5	6.4	21.0	25.7				
65.0	SAND. Medium to coarse sand. Minor gravel to 1-1/2 inches.				22.5	0.0	5.5	17.0	27.6				
	T.D. 65 ft.												

Sample from 45 to 50 foot interval partially discarded (see field photos), small sample taken from this interval.

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

DRILLING LOG

HOLE NO. A1200

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,848.21 mE +/- 0.02 m 4,951,200.08 mN +/- 0.02 m

Elevation (ft.): 945.0 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Soybean field at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/18/07 9:55 AM

Drilling Contractor: WDC

Completed: 9/18/07 11:55 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)				
2.0	943.0										Loess		
4.5	940.5												
10.0	935.0				14.2	0.0	3.5	10.7	26.8	Superior lobe outwash	21.9 % + #4		
15.0	930.0				15.6	1.0	1.4	13.2	28.6				
25.0	920.0				25.4	0.7	4.6	20.1	27.2				
30.0	915.0				24.7	1.0	2.9	20.8	25.2				
42.0	903.0				35.0	7.9	1.7	25.4	13.5				
T.D. 42 ft.													
Broke off top auger at 42 feet. Attempted to continue deeper, but not successful.													

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

DRILLING LOG

HOLE NO. A1400

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,850.18 mE +/- 0.02 m 4,951,399.42 mN +/- 0.02 m

Elevation (ft.): 947.8 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/17/07 11:05 AM

Drilling Contractor: WDC

Completed: 9/18/07 9:30 AM

Drill Rig: CME-85

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.											
6.0	SAND. Fine to coarse sand, slightly dirty. Very minor gravel to 1 inch.				3.9	0.0	0.5	3.4	18.6	Superior lobe outwash	21.8% + #4	
10.0	SAND. Fine sand: Very minor trace gravel to 3/4 inch.				8.0	0.0	2.3	5.7	19.4			
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.				26.7	2.1	7.2	17.4	25.5			
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				24.0	2.8	2.7	18.6	25.8			
25.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				25.3	5.7	4.9	14.8	24.3			
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				27.1	2.2	6.5	18.4	26.7			
35.0	SAND & GRAVEL. Fine to medium sand. Gravel to 2-1/2 inches.				28.8	1.0	4.7	23.1	23.0			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				36.9	18.1	3.6	15.2	27.2			
44.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.									Till		
45.0	TILL. Clayey, gray.											
T.D. 45 ft.												

No photographs of field samples 10 to 45 feet.

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

DRILLING LOG

HOLE NO. A1600

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,899.94 mE +/- 0.02 m 4,951,599.51 mN +/- 0.02 m

Elevation (ft.): 953.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/29/07 9:50 AM

Drilling Contractor: Braun Intertec

Completed: 11/29/07 11:40 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	
4.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				22.7	6.9	4.9	10.9	31.4	Superior lobe outwash	18.7% + #4	
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.				18.4	5.9	5.3	7.2	28.5			
15.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				9.0	4.0	1.0	4.0	26.3			
20.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.				24.0	9.5	5.7	8.8	25.3			
25.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.				22.6	4.9	4.4	13.4	30.4			
30.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				17.8	1.1	7.8	8.8	25.3			
35.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				14.4	0.8	4.9	8.8	22.3			
40.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				19.9	7.9	3.8	8.2	27.1			
45.0	SAND. Very fine to fine sand, dirty to very dirty. Very minor gravel to 1 inch.									Lacustrine sediment		
55.0	TILL. Silty, yellowish brown.											
65.0	T.D. 65 ft.									Till		

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

DRILLING LOG

HOLE NO. A1800

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,899.59 mE +/- 0.02 m 4,951,799.79 mN +/- 0.02 m

Elevation (ft.): 953.7 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/29/07 12:20 PM

Drilling Contractor: Braun Intertec

Completed: 11/29/07 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)				
1.5	TOPSOIL. Silty, black.	952.2										Loess	
3.0	SILT. Brown.	950.7											
5.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.	948.7											
10.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.	943.7				15.5	0.0	2.7	12.8	34.4			
15.0	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.	938.7				14.1	3.4	3.5	7.2	20.1			
20.0	SAND. Fine to medium sand. Minor gravel to 2 inches.	933.7				15.4	4.5	6.4	4.5	24.1			
25.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	928.7				14.0	1.4	4.2	8.4	27.7			
30.0	SAND. Fine to coarse sand. Minor gravel to 1 inch. Small sample volume.	923.7				11.6	0.0	2.4	9.2	27.0			
35.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.	918.7										Superior lobe outwash	
55.0	SAND. Fine to medium sand. Very minor gravel to 3/4 inch.	898.7											
60.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.	893.7											
65.0		888.7											
	T.D. 65 ft.												

13.8 % + #4

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

DRILLING LOG

HOLE NO. A2000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,898.22 mE +/- 0.02 m 4,951,999.94 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/29/07 2:20 PM

Drilling Contractor: Braun Intertec

Completed: 11/29/07 3:55 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
1.5	TOPSOIL. Silty, black.										
8.0	SILT. Brown. Lower contact based on drill action.									Loess	
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				14.0	0.8	3.3	9.9	42.8	Superior lobe outwash	22.4 % + #4
15.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.				19.6	4.4	6.0	9.3	28.3		
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				17.0	2.5	3.0	11.6	28.2		
25.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				24.5	4.1	5.0	15.5	32.5		
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3 inches.				31.0	12.0	1.6	17.5	31.8		
35.0	SAND & GRAVEL. Fine to medium sand. Gravel to 3 inches.				28.0	9.6	4.2	14.2	30.1		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				28.7	1.1	5.3	22.3	26.0		
45.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				24.1	2.3	4.9	17.0	23.5		
50.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				24.1	0.0	3.1	21.0	21.9		
55.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				19.8	0.0	4.6	15.1	24.3		
60.0	SAND. Fine to very coarse sand. Minor gravel to 2-1/2 inches, mostly less than 1 inch.				18.8	3.3	2.2	13.2	25.1		
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. A2200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,901.04 mE +/- 0.02 m 4,952,198.71 mN +/- 0.02 m

Elevation (ft.): 953.8 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/30/07 7:30 AM

Drilling Contractor: Braun Intertec

Completed: 11/30/07 9:35 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	
3.5	SILT. Brown.											
5.0	SAND. Fine sand. Minor gravel to 1-3/4 inches.					18.2	4.5	5.5	8.1	35.0	Superior lobe outwash	16.2 % + #4
10.0	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.					17.0	3.5	7.3	6.3	27.7		
15.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.					10.3	1.1	4.0	5.2	25.0		
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.					14.0	2.3	4.0	7.7	31.6		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.					5.9	0.0	1.5	4.4	21.8		
30.0						7.2	0.0	2.7	4.5	24.3		
35.0						11.8	0.0	4.0	7.7	24.3		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					31.7	3.0	5.6	23.1	29.9		
45.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.					17.8	0.0	4.6	13.2	26.4		
50.0						18.4	0.0	3.9	14.4	23.3		
55.0						23.0	0.0	3.5	19.5	23.1		
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					18.8	1.5	3.0	14.3	21.6		
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. A2300

Page 1 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,931.93 mE +/- 0.02 m 4,952,302.65 mN +/- 0.02 m
 Elevation (ft.): 954.0 +/- 0.1 ft.
 Ground Water Depth (ft.): 65.0
 Ground Water Elevation (ft.): 889.0
 Site: Snow covered field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/11/08 11:10 AM
 Drilling Contractor: Traut Wells Completed: 2/11/08 12:20 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. Silty, black.											
8.0	SILT. Brown.									Loess		
10.0	SAND. Fine to medium sand. Minor gravel to 2 inches.				17.2	10.1	1.8	5.3	35.6	Superior lobe outwash	19.4 % + #4	
15.0	SAND. Fine to medium sand. Minor gravel to 4 inches.				22.3	2.9	7.4	12.0	37.3			
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				15.9	0.0	2.2	13.7	42.1			
30.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				18.9	2.4	5.3	11.1	41.2			
40.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				3.0	0.0	0.7	2.3	33.0			
45.0	SAND. Fine to coarse sand. Very minor trace gravel to 1-1/2 inches.				24.1	2.1	5.9	16.2	34.1			
50.0	SAND. Fine to very coarse sand. Minor gravel to 2 inches.				8.7	0.5	2.1	6.1	26.2			
57.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				22.7	8.1	4.3	10.3	33.7			
60.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.				46.5	2.9	9.3	34.3	45.2			
65.0	GRAVEL & SAND. Fine to very coarse sand. Gravel to 2 inches.											
67.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.											
	SILT. Brown to gray.									Lacustrine		

Continued Next Page

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

DRILLING LOG

HOLE NO. A2300

Page 2 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,931.93 mE +/- 0.02 m 4,952,302.65 mN +/- 0.02 m
 Elevation (ft.): 954.0 +/- 0.1 ft.
 Ground Water Depth (ft.): 65.0
 Ground Water Elevation (ft.): 889.0
 Site: Snow covered field at natural grade.

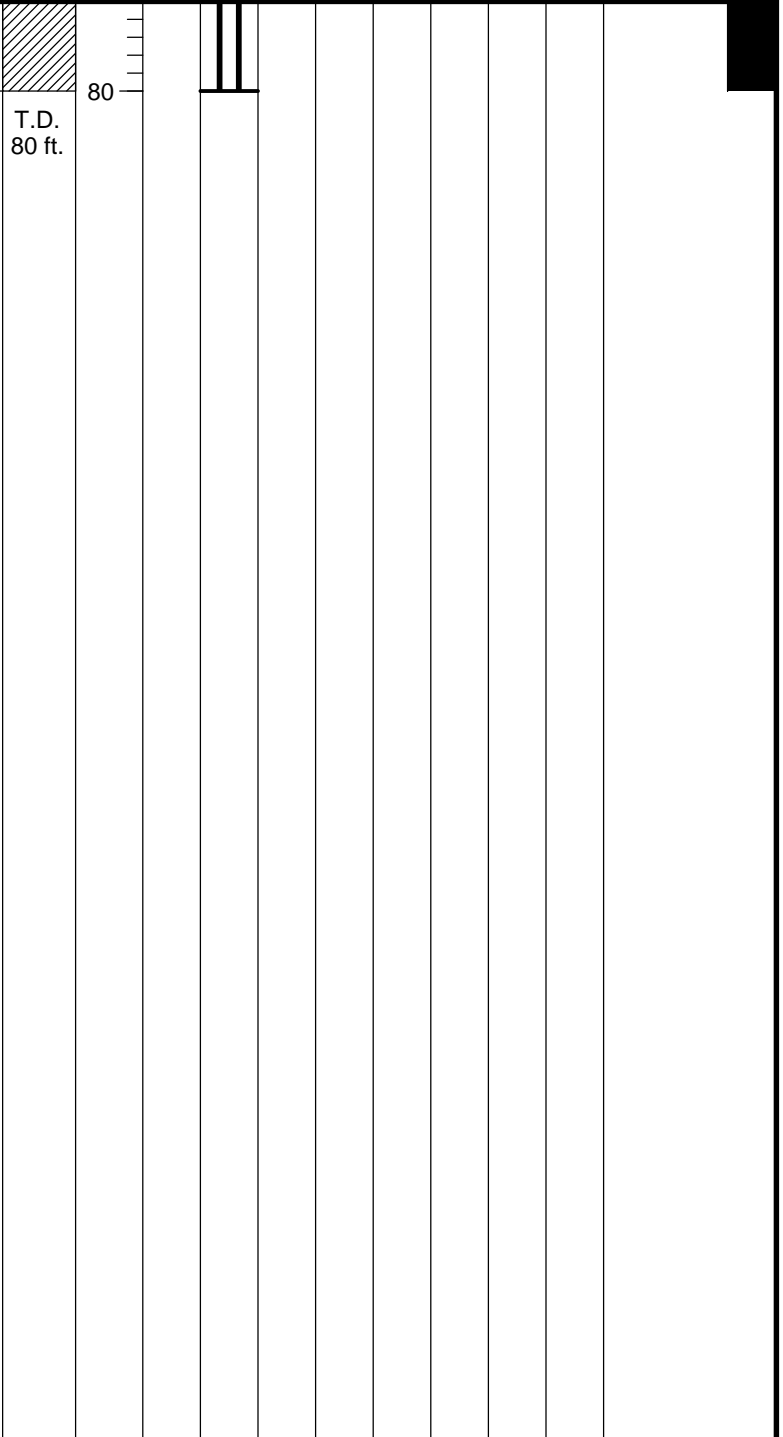
Drilling Method: 4x6 Rotasonic Started: 2/11/08 11:10 AM
 Drilling Contractor: Traut Wells Completed: 2/11/08 12:20 PM
 Drill Rig: Versasonic Logged By: J.D. Lehr

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)		

SILT. Brown to gray. (continued)

80.0

874.0



Ground water level approximate.

DRILLING LOG

HOLE NO. A2400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,899.83 mE +/- 0.02 m 4,952,400.62 mN +/- 0.02 m

Elevation (ft.): 954.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/30/07 9:50 AM

Drilling Contractor: Braun Intertec

Completed: 11/30/07 11:35 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.													
6.0	SILT. Sandy towards bottom of interval, brown. Lower contact based on drill action.												Loess	
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.					33.1	1.4	6.1	25.6	33.8			Superior lobe outwash	21.2% + #4
15.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				15.2	0.0	3.2	12.0	28.1					
20.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.				8.7	3.0	0.5	5.2	24.6					
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				7.2	0.0	1.0	6.2	21.9					
30.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				19.9	5.1	5.6	9.2	33.6					
35.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.				11.5	0.0	3.5	8.0	29.2					
40.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.				12.0	1.4	3.4	7.2	30.3					
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				13.3	3.9	3.3	6.1	26.5					
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				30.3	2.7	10.8	16.9	24.0					
55.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				34.4	6.2	8.5	19.7	25.1					
60.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.				33.2	15.1	5.8	12.4	26.3					
65.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.				37.6	12.0	8.6	17.0	30.3					
	T.D. 65 ft.													

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

DRILLING LOG

HOLE NO. A2600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,895.26 mE +/- 0.02 m 4,952,585.20 mN +/- 0.02 m

Elevation (ft.): 955.1 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Grassy area at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/30/07 1:00 PM

Drilling Contractor: Braun Intertec

Completed: 11/30/07 2:45 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)			
1.0	TOPSOIL. Silty, black.	954.1									Loess	
3.0	SILT. Brown.	952.1										
6.5	SAND. Very fine sand, very dirty. Very minor gravel to 1 inch. Lower contact based on drill action.	948.6									Superior lobe outwash	20.0 % + #4
10.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 1-1/4 inches. High percentage pea gravel.	945.1			31.5	0.0	4.4	27.1	38.4			
15.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	940.1			21.4	1.0	3.5	17.0	26.8			
20.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/4 inches. High percentage pea gravel.	935.1			30.9	2.4	6.6	21.8	26.8			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches.	930.1			25.2	0.0	5.9	19.4	25.5			
30.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.	925.1			9.4	1.8	2.6	5.0	24.1			
35.0	SAND. Fine sand. Very minor gravel to 2-1/2 inches.	920.1			10.3	6.5	1.3	2.5	20.5			
40.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				7.5	0.0	1.9	5.6	18.5			
45.0		910.1			7.6	0.0	2.6	5.0	15.7			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	905.1			24.7	0.0	3.4	21.3	22.5			
55.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.	900.1			23.3	0.0	2.3	21.0	21.9			
61.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches. Very rocky (drill action) from 59 to 61 feet. Refusal on large rock at 61 feet.	894.1			30.1	1.6	8.2	20.3	34.5			
	T.D. 61 ft.											

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

DRILLING LOG

HOLE NO. A2700

Page 1 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,898.21 mE +/- 0.02 m 4,952,701.10 mN +/- 0.02 m
 Elevation (ft.): 955.7 +/- 0.1 ft.
 Ground Water Depth (ft.): 73.0
 Ground Water Elevation (ft.): 882.7
 Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/15/08 10:30 AM
 Drilling Contractor: Traut Wells Completed: 2/15/08 12:00 PM
 Drill Rig: Versasonic Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
		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	
4.5	SILT. Sandy towards bottom of interval, brown.												
	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				10.3	0.0	4.0	6.2	34.6			Superior lobe outwash	28.7% + #4
14.0					10.3	0.0	2.6	7.7	33.5				
17.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				19.8	0.0	5.3	14.5	27.4				
20.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.												
25.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				16.3	1.1	4.3	10.9	31.7				
30.0	SAND. Fine sand. No gravel.												
36.0					16.4	2.8	4.3	9.2	34.9				
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.												
45.0	SAND. Fine to coarse sand. Very minor gravel to 1/2 inch.				17.5	3.0	2.1	12.4	40.4				
52.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/4 inches.												
55.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				10.3	0.0	2.2	8.1	34.9				
60.0	SAND. Fine to coarse sand, slightly dirty. Minor gravel to 2 inches.												
65.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				18.2	1.8	4.3	12.1	43.0				
70.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.												
74.0													

Continued Next Page

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

DRILLING LOG

HOLE NO. A2700

Page 2 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 490,898.21 mE +/- 0.02 m 4,952,701.10 mN +/- 0.02 m
 Elevation (ft.): 955.7 +/- 0.1 ft.
 Ground Water Depth (ft.): 73.0
 Ground Water Elevation (ft.): 882.7
 Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/15/08 10:30 AM
 Drilling Contractor: Traut Wells Completed: 2/15/08 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>GRAVEL & SAND. Fine to very coarse sand, dirty. Gravel to 4 inches. Till balls present from 98 to 100 feet. <i>(continued)</i></p>	80			▲	43.0	12.0	11.3	19.7	45.1		
	85			▲	63.7	22.1	16.9	24.6	55.4		
	90			▲	78.0	35.2	17.8	25.0	48.7		
	95			▲	64.7	27.8	16.4	20.4	45.0		
	100			▲	58.0	16.0	18.3	23.6	43.0		
<p>NO RECOVERY. "Large boulders" according to driller. Bit was ruined on 100 to 120 foot sampling run.</p>	100										
	105										
	110										
	115										
	120										
	T.D.										
	120 ft.										

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

DRILLING LOG

HOLE NO. A2800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,900.62 mE +/- 0.02 m 4,952,799.65 mN +/- 0.02 m

Elevation (ft.): 957.1 +/- 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: 11/30/07 2:50 PM

Drilling Contractor: Braun Intertec

Completed: 11/30/07 4:25 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)				
1.0	TOPSOIL. Silty, black.											Loess	
1.5	SILT. Brown.												
5.0	GRAVEL & SAND. Fine to coarse sand, slightly dirty to dirty. Gravel to 3-1/2 inches.					46.2	9.6	23.9	12.7	17.7			
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					15.3	0.0	2.1	13.2	32.6			
15.0	SAND. Fine to coarse sand. Minor gravel to 5 inches, mostly less than 1 inch.					23.5	9.4	3.6	10.5	33.8			
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					24.6	9.0	4.9	10.7	32.0			
25.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					23.7	2.7	9.7	11.3	33.7			
30.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.					10.2	0.0	1.8	8.4	23.5			
35.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.					19.4	0.8	6.3	12.3	23.1		Superior lobe outwash	
40.0	SAND. Fine sand. Very minor gravel to 1-3/4 inches.					13.6	4.1	2.8	6.7	20.2			
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					37.9	7.2	9.9	20.8	34.3			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					18.0	1.1	4.8	12.1	20.2			
55.0						17.7	1.1	2.5	14.1	22.5			
60.0						23.6	3.3	5.4	14.9	22.0			
65.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.					18.9	3.1	2.8	12.9	28.5			
	T.D. 65 ft.												

21.9 % + #4

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

DRILLING LOG

HOLE NO. A3000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

490,900.72 mE +/- 0.02 m 4,952,999.97 mN +/- 0.02 m

Elevation (ft.): 954.2 +/- 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: 12/3/07 7:45 AM

Drilling Contractor: Braun Intertec

Completed: 12/3/07 9:30 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.	953.2										Loess	
2.0	SILT. Brown.	952.2										Superior lobe outwash	18.6% + #4
5.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.	949.2				18.9	0.8	5.4	12.7	45.5			
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	944.2				16.8	5.0	4.1	7.7	27.7			
15.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.	939.2				16.2	5.3	2.7	8.3	29.1			
20.0	SAND. Fine to medium sand. Minor gravel to 2 inches.	934.2				8.8	1.6	1.8	5.5	28.2			
25.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.	929.2				19.1	0.0	5.0	14.2	31.3			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	924.2				26.0	4.3	7.9	13.8	29.2			
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	919.2				15.6	0.0	4.5	11.1	25.7			
	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					15.3	0.0	4.1	11.2	26.8			
						19.4	2.2	5.3	11.9	28.4			
55.0		899.2				22.6	3.2	6.5	12.9	31.9			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches, mostly less than 1 inch.					25.1	5.5	5.4	14.3	31.0			
60.0		894.2											
	SAND. Fine sand. Very minor trace gravel to 3/4 inch.												
65.0		889.2											
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. AA0100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,500.80 mE +/- 0.02 m 4,950,099.71 mN +/- 0.02 m
 Elevation (ft.): 938.7 +/- 0.1 ft.
 Ground Water Depth (ft.): 58.0
 Ground Water Elevation (ft.): 880.7
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/26/07 2:30 PM
 Drilling Contractor: Braun Intertec Completed: 10/26/07 4:00 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	TOPSOIL. Silty, black.										Loess
3.0	SILT. Brown.										
5.0	SAND. Fine to medium sand, slightly dirty. No gravel.										Superior lobe outwash 21.8 % + #4
10.0	SAND. Fine sand: Very minor gravel to 1-1/2 inches.				8.0	1.1	2.2	4.8	27.9		
15.0	SAND. Fine to coarse sand. Very minor gravel to 2 inches.				9.3	2.0	2.1	5.2	26.1		
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.				31.7	4.6	9.8	17.3	30.4		
25.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.				23.2	3.0	6.3	13.9	37.1		
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				29.4	15.7	6.6	7.2	27.5		
35.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.				19.5	3.7	3.0	12.8	23.1		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				30.4	14.4	3.6	12.5	26.2		
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				26.6	1.8	4.4	20.5	27.9		
50.0	SAND. Fine to coarse sand. Minor gravel to 5 inches.				24.8	12.5	3.9	8.4	24.6		
55.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 5 inches, mostly less than 1-1/4 inches.				25.1	15.3	2.5	7.3	20.6		
60.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				6.9	0.0	0.8	6.2	15.1		
65.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				31.8	4.8	9.2	17.7	25.1		
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. AA0300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,503.06 mE +/- 0.02 m 4,950,298.40 mN +/- 0.02 m
 Elevation (ft.): 940.3 +/- 0.1 ft.
 Ground Water Depth (ft.): 59.0
 Ground Water Elevation (ft.): 881.3
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/29/07 3:30 PM
 Drilling Contractor: Braun Intertec Completed: 10/29/07 4:50 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.	939.3										Loess		
3.0 SILT. Brown.	937.3												
5.0 SAND. Fine to coarse sand, slightly dirty. Minor gravel to 2 inches.	935.3												
10.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	930.3												
15.0 SAND. Fine sand. Very minor trace gravel to 3/4 inch.	925.3												
20.0 SAND. Fine sand. Very minor gravel to 1 inch.	920.3												
25.0 SAND. Fine sand. Very minor trace gravel to 1/2 inch.	915.3												
30.0 SAND. Fine to coarse sand. Minor gravel to 4 inches.	910.3												
35.0 SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	905.3												
SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.											Superior lobe outwash		
45.0	895.3												
SAND. Fine to medium sand. Very minor gravel to 3 inches.	890.3												
SAND. Fine to medium sand. Very minor gravel to 2 inches.	885.3												
SAND. Fine sand. No gravel.	880.3												
SAND. Medium to coarse sand. Very minor gravel to 1 inch.	875.3												
	T.D. 65 ft.												

16.5 % + #4

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

DRILLING LOG

HOLE NO. AA0500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,500.19 mE +/- 0.02 m 4,950,505.10 mN +/- 0.02 m
 Elevation (ft.): 939.6 +/- 0.1 ft.
 Ground Water Depth (ft.): 58.0
 Ground Water Elevation (ft.): 881.6
 Site: Alfalfa field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/30/07 3:15 PM
 Drilling Contractor: Braun Intertec Completed: 10/30/07 4:35 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 TOPSOIL. Silty, black.	938.1										Loess	
3.0 SILT. Brown.	936.6											
5.0 SAND. Fine sand, slightly dirty. No gravel.	934.6										Superior lobe outwash	17.0% + #4
10.0 SAND. Fine to medium sand. Very minor gravel to 3/4 inch.	929.6				7.9	0.0	0.4	7.5	29.8			
15.0 SAND. Fine sand. Very minor gravel to 3-1/2 inches.	924.6				8.1	2.8	1.1	4.2	21.0			
SAND. Fine sand. Very minor trace gravel to 1 inch.					1.7	0.0	0.5	1.2	40.5			
25.0	914.6				30.5	8.1	6.0	16.4	23.4			
SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.					33.2	1.8	1.5	29.9	21.1			
30.0 SAND & GRAVEL. Medium to very coarse sand, slightly dirty. Gravel to 2 inches, mostly pea gravel.	909.6				28.6	4.1	6.6	17.9	19.6			
35.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.	904.6				28.4	4.8	5.5	18.2	24.6			
40.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.	899.6											
45.0 SAND. Fine sand. Very minor gravel to 1 inch.	894.6											
50.0 SAND. Fine to medium sand. Very minor trace gravel to 1 inch.	889.6											
55.0 SAND. Fine to medium sand. No gravel.	884.6											
60.0 SAND. Fine sand. No gravel.	879.6											
65.0	874.6											
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. AA0700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,499.61 mE +/- 0.02 m 4,950,700.85 mN +/- 0.02 m

Elevation (ft.): 938.9 +/- 0.1 ft.

Ground Water Depth (ft.): 57.0

Ground Water Elevation (ft.): 881.9

Site: Alfalfa field at natural grade.

Drilling Method: 9-inch flight auger

Started: 10/30/07 1:55 PM

Drilling Contractor: Braun Intertec

Completed: 10/30/07 3:00 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)	Geologic Interpretation	Economic Classification
1.0 TOPSOIL. Silty, black.	937.9									Loess	
2.0 SILT. Brown.	936.9									Superior lobe outwash	
5.0 SAND & GRAVEL. Fine to medium sand, slightly dirty. Gravel to 2-1/2 inches.	933.9										
10.0 SAND. Fine sand: Very minor trace gravel to 1-1/4 inches.	928.9										
15.0 SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.	923.9										
SAND. Fine to medium sand. No gravel.											
25.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches, mostly pea gravel.	913.9										
30.0 SAND. Fine to coarse sand. Minor gravel to 1/2 inch.	908.9										
35.0 SAND. Fine sand. Very minor trace gravel to 1-1/2 inches.	903.9										
40.0 SAND. Fine to medium sand. Very minor gravel to 2 inches.	898.9										
45.0 SAND. Fine sand. No gravel. Silt lenses present.	893.9										
55.0 SAND. Very fine to fine sand, dirty. No gravel.	883.9									Lacustrine sediment	
65.0	873.9										
No samples taken.	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. AA0900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,500.17 mE +/- 0.02 m 4,950,865.12 mN +/- 0.02 m

Elevation (ft.): 939.4 +/- 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 10:45 AM

Drilling Contractor: Braun Intertec

Completed: 10/31/07 12:15 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)	Geologic Interpretation	Economic Classification
2.0 TOPSOIL. Silty, black.	937.4									Loess	
5.0 SILT. Brown.	934.4										
10.0 SAND. Fine sand. Very minor trace gravel to 1/2 inch.	929.4									Superior lobe outwash	
15.0 SAND. Fine sand. Very minor gravel to 4-1/2 inches.	924.4										
20.0 SAND. Fine sand. Very minor gravel to 1-1/4 inches.	919.4										
25.0 SAND. Fine sand. No gravel.	914.4										
30.0 SAND. Fine to coarse sand. Very minor gravel to 1/2 inch.	909.4										
40.0 SAND. Fine sand, slightly dirty. Very minor gravel to 1 inch.	899.4										
46.0 SAND. Fine sand, slightly dirty. Minor gravel to 7 inches. Lower contact based on drill action.	893.4									St. Peter Sandstone	
60.0 SANDSTONE. Very fine sand, white.	879.4										
No samples taken. Very little gravel.	T.D. 60 ft.										

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

DRILLING LOG

HOLE NO. AA1100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,501.35 mE +/- 0.02 m 4,951,100.92 mN +/- 0.02 m

Elevation (ft.): 942.0 +/- 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 7:30 AM

Drilling Contractor: Braun Intertec

Completed: 11/1/07 9:00 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	
4.0	SILT. Brown.											
5.0	SAND. Fine to medium sand, slightly dirty. Very minor trace gravel to 3/4 inch.										Superior lobe outwash	27.4 % + #4
	SAND. Fine to medium sand. Minor gravel to 1-3/4 inches.				14.9	0.7	3.2	11.0	31.8			
15.0					20.7	1.7	3.9	15.1	24.9			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.				33.1	6.0	12.3	14.8	25.7			
20.0					43.0	11.3	13.2	18.4	33.0			
	GRAVEL & SAND. Fine to coarse sand. Gravel to 3-1/2 inches.				27.0	5.2	3.8	17.9	21.5			
30.0					32.3	10.0	6.5	15.9	25.6			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				22.2	0.0	4.2	18.0	24.8			
35.0					28.8	3.7	7.4	17.8	28.2			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.											
40.0												
	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.											
47.0												
	SANDSTONE. Very fine sand, yellowish brown.									St. Peter Sandstone		
55.0												
	T.D. 55 ft.											
No samples from interval 45 to 47 feet - displaced while drilling sandstone below.												

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

DRILLING LOG

HOLE NO. AA1300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,497.51 mE +/- 0.02 m 4,951,301.54 mN +/- 0.02 m

Elevation (ft.): 940.5 +/- 0.1 ft.

Ground Water Depth (ft.): 61.0

Ground Water Elevation (ft.): 879.5

Site: Idle field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/2/07 10:30 AM

Drilling Contractor: Braun Intertec

Completed: 11/2/07 12:10 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
0.5 TOPSOIL. Silty, black.	940.0									Loess	
2.0 SILT. Brown.	938.5										
5.0 SAND. Fine sand. Very minor gravel to 1 inch.	935.5				6.1	0.0	1.0	5.1	30.9		
10.0 SAND. Fine to coarse sand. Very minor gravel to 1 inch.	930.5				1.2	0.0	0.0	1.2	20.2		
SAND. Fine sand. Very minor trace gravel to 1 inch.					5.0	0.0	1.5	3.5	19.8		
20.0	920.5				21.5	0.0	12.2	9.3	23.6		
SAND. Fine to medium sand. Minor gravel to 1-1/2 inches. Very rocky (drill action) from 24 to 25 feet.	915.5				36.3	10.4	8.4	17.5	22.9		
SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches. Very rocky (drill action) from 25 to 27 feet.					38.1	12.3	6.7	19.1	23.4	Superior lobe outwash	20.0% + #4
40.0	900.5				30.9	9.7	7.8	13.5	18.6		
SAND. Fine to coarse sand. Minor gravel to 2 inches.					20.8	2.3	6.8	11.7	21.4		
45.0	895.5				31.1	6.9	10.2	14.0	19.7		
SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.					21.5	4.2	4.1	13.3	18.5		
50.0	890.5				16.0	0.0	4.0	12.0	14.6		
SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.											
60.0	880.5										
SAND. Very fine to fine sand, dirty. No gravel.	876.5									Lacustrine sediment	
65.0 CLAY. Red.	875.5										

T.D. 65 ft.

Second attempt at this location 10 feet west of first attempt.

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

DRILLING LOG

HOLE NO. AA1300A

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

mE +/- m mN +/- m

Elevation (ft.): +/- 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: 11/2/07 9:35 AM

Drilling Contractor: Braun Intertec

Completed: 11/2/07 10:25 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)		
0.5	TOPSOIL. Silty, black.									Loess	
1.5	SILT. Brown.									Superior lobe outwash	
2.5	SAND. Fine sand, dirty. No gravel.										
5.0	SAND. Fine sand, slightly dirty. Very minor gravel to 1-1/2 inches.										
10.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.										
15.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										
25.0	SAND. Fine sand. No gravel.										
26.0	GRAVEL & SAND. Based on drill action.										
	T.D. 26 ft.										

Refusal in coarse gravel at 26 feet. No samples taken.

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

DRILLING LOG

HOLE NO. AA2500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,499.45 mE +/- 0.02 m 4,952,505.46 mN +/- 0.02 m

Elevation (ft.): 940.9 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered grassy area next to airstrip, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 1/21/08 2:40 PM

Drilling Contractor: Braun Intertec

Completed: 1/21/08 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)	Geologic Interpretation	Economic Classification
2.0	938.9									Fill	
5.0	935.9				4.7	0.0	1.7	3.0	17.9	Superior lobe outwash	20.0 % + #4
15.0	925.9				4.0	0.0	1.0	2.9	24.0		
20.0	920.9				14.6	2.0	4.2	8.5	28.3		
25.0	915.9				37.8	2.2	7.5	28.1	36.6		
30.0	910.9				36.6	4.7	7.6	24.2	46.6		
35.0	905.9				31.2	6.9	8.8	15.5	33.8		
40.0	900.9				28.2	0.9	6.1	21.3	30.1		
50.0	890.9				27.9	0.7	6.1	21.2	40.6		
57.0	883.9										
65.0	875.9										
T.D.	65 ft.										

Small volume of sample from 45 to 65 foot interval due to large rocks knocking sample off of augers while tripping out.

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

DRILLING LOG

HOLE NO. AA2700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,501.76 mE +/- 0.02 m 4,952,700.08 mN +/- 0.02 m
 Elevation (ft.): 938.2 +/- 0.1 ft.
 Ground Water Depth (ft.): Ground water not encountered
 Ground Water Elevation (ft.):
 Site: Edge of snow covered road approximately 4 feet above natural grade.

Drilling Method: 9-inch flight auger Started: 1/18/08 1:00 PM
 Drilling Contractor: Braun Intertec Completed: 1/18/08 2:00 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)		

4.5	FILL. Silty, sandy with very minor gravel to 1 inch.	933.7									Fill	
7.0	SAND. Very fine sand, dirty. No gravel. Lower contact based on drill action.	931.2									Loess	
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	928.2									Superior lobe outwash	
	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.											
20.0		918.2										
25.0	SAND. Fine sand. No gravel.	913.2									Lacustrine sediment	
	SILT. Brown.											
40.0		898.2										

No samples taken. Estimated less than 10 percent gravel from 7 to 20 feet.

T.D. 40 ft.

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

DRILLING LOG

HOLE NO. AA2900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,496.75 mE +/- 0.02 m 4,952,976.18 mN +/- 0.02 m

Elevation (ft.): 938.9 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of snow covered road a few feet above natural grade.

Drilling Method: 9-inch flight auger

Started: 1/18/08 2:05 PM

Drilling Contractor: Braun Intertec

Completed: 1/18/08 3:00 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)	Geologic Interpretation	Economic Classification
FILL. Silty, sandy with very minor gravel to 1 inch.	4.0									Fill	
934.9											
SAND. Very fine sand, dirty. No gravel.	5.0									Loess	
933.9											
SAND. Fine to coarse sand. Very minor gravel to 1 inch.	10.0									Superior lobe outwash	
928.9											
SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.	15.0										
923.9											
SAND. Fine to medium sand. No gravel.	20.0									Superior lobe outwash	
918.9											
SAND. Fine to medium sand. Minor gravel to 2 inches.	25.0										
913.9											
SAND. Very fine sand, dirty. No gravel. Silt lenses present.	30.0									Lacustrine sediment	
908.9											
SILT. Brown to gray.	35.0										
903.9											
SAND. Very fine sand. No gravel.	40.0										
898.9											
T.D. 40 ft.											

No samples taken. Estimated less than 10 percent gravel from 4 to 25 feet.

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

DRILLING LOG

HOLE NO. AA3100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,500.01 mE +/- 0.02 m 4,953,100.68 mN +/- 0.02 m

Elevation (ft.): 936.0 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered grassy clearing between road and woods.

Drilling Method: 9-inch flight auger

Started: 1/18/08 3:10 PM

Drilling Contractor: Braun Intertec

Completed: 1/18/08 4:00 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)	Geologic Interpretation	Economic Classification
1.5 TOPSOIL. Silty, black.	934.5									Loess	
5.0 SAND. Fine to coarse sand. Minor gravel to 1 inch.	931.0									Superior lobe outwash	
10.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	926.0										
15.0 SAND. Fine to medium sand. Very minor gravel to 1 inch.	921.0										
20.0 SAND. Fine to medium sand. No gravel.	916.0										
25.0 SAND. Fine sand. No gravel.	911.0									Lacustrine sediment	
40.0 SAND. Very fine sand, slightly dirty to dirty in places. No gravel. Several silt lenses present from 25 to 30 feet.	896.0										
T.D. 40 ft.											

No samples taken. Estimated less than 10 percent gravel from 1.5 to 15 feet.

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

DRILLING LOG

HOLE NO. AA3300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,493.21 mE +/- 0.02 m 4,953,299.69 mN +/- 0.02 m
 Elevation (ft.): 910.6 +/- 0.1 ft.
 Ground Water Depth (ft.): 22.0
 Ground Water Elevation (ft.): 888.6
 Site: Snow covered grassy area at natural grade.

Drilling Method: 9-inch flight auger Started: 1/18/08 4:10 PM
 Drilling Contractor: Braun Intertec Completed: 1/18/08 5:00 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)		

2.5	TOPSOIL. Silty, black.	908.1									Loess	
	SILT. Brown. Lower contact based on drill action.											
10.0		900.6									Superior lobe outwash	
	SAND. Fine sand. No gravel.											
15.0		895.6										
	SAND. Fine to medium sand. No gravel.											
20.0		890.6									Superior lobe outwash	
	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.											
25.0		885.6									Lacustrine sediment	
	SAND. Very fine to medium sand, slightly dirty. No gravel.											
32.0		878.6									Lacustrine sediment	
	SILT. Clayey & hard towards bottom of interval, brown.											
35.0		875.6										

T.D. 35 ft.

No samples taken. Estimated less than 5 percent gravel from 10 to 32 feet.

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

DRILLING LOG

HOLE NO. AAA1200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,114.51 mE +/- 0.02 m 4,951,191.26 mN +/- 0.02 m

Elevation (ft.): 904.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of inactive gravel pit approximately 25 feet below natural grade.

Drilling Method: 9-inch flight auger

Started: 11/28/07 3:55 PM

Drilling Contractor: Braun Intertec

Completed: 11/28/07 4:55 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
SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.	5.0				19.5	1.8	5.0	12.7	30.8	Superior lobe outwash	21.0 % + #4
SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	10.0				27.6	13.6	4.8	9.2	34.8		
SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	15.0				23.0	5.6	7.6	9.8	26.5		
SAND. Fine to coarse sand. Minor gravel to 2 inches.	20.0				17.9	5.7	4.2	8.0	20.7		
SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	25.0				17.1	3.6	4.0	9.5	37.9		
SAND. Very fine sand, dirty, iron stained from 25 to 35 feet. No gravel.	45.0									Lacustrine sediment	

T.D.
45 ft.

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

DRILLING LOG

HOLE NO. AAA1400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,101.71 mE +/- 0.02 m 4,951,429.43 mN +/- 0.02 m

Elevation (ft.): 922.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/28/07 8:35 AM

Drilling Contractor: Braun Intertec

Completed: 11/28/07 11:30 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.	921.1									Loess		
3.0	SILT. Brown.	919.6											
5.0	SAND. Fine sand. Very minor trace gravel to 1-1/4 inches.	917.6				16.6	0.8	1.8	14.0	27.7			
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	912.6				26.3	0.0	3.5	22.8	30.1			
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches. High percentage pea gravel.	907.6				38.6	2.2	3.8	32.6	31.7			
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches. High percentage pea gravel.	902.6				35.7	0.0	4.0	31.7	35.0			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch. High percentage pea gravel.	897.6				19.2	2.5	6.2	10.4	29.1			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	892.6				12.1	0.0	1.7	10.4	17.5			
35.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	887.6									Superior lobe outwash		
40.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	882.6											
55.0	SAND. Fine sand. No gravel.	867.6											
60.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.	862.6											
65.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.	857.6											
	T.D. 65 ft.												

24.2% + #4

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

DRILLING LOG

HOLE NO. AAA1600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,098.97 mE +/- 0.02 m 4,951,599.26 mN +/- 0.02 m

Elevation (ft.): 919.3 +/- 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: 3/17/08 7:40 AM

Drilling Contractor: Braun Intertec

Completed: 3/17/08 10:00 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)				
1.0	TOPSOIL. Silty, dark brown.	918.3									Loess		
2.0	SILT. Brown.	917.3											
5.0	SAND. Very fine to fine sand, dirty. No gravel.	914.3									Superior lobe outwash	29.1 % + #4	
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	909.3			10.6	0.0	3.0	7.7	34.9				
	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				30.8	6.1	9.1	15.5	35.7				
20.0		899.3			34.0	5.3	7.7	21.1	40.7				
	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				26.6	8.8	5.1	12.7	26.0				
25.0		894.3			36.8	16.9	7.8	12.1	38.2				
	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 6 inches.				34.4	7.1	10.8	16.4	36.0				
30.0		889.3			40.5	6.1	10.1	24.3	33.4				
	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2-1/2 inches.				27.9	6.8	5.8	15.4	31.2				
35.0		884.3			20.1	12.1	2.6	5.4	31.9				
	GRAVEL & SAND. Fine to coarse sand, slightly dirty. Gravel to 2-1/2 inches.												
40.0		879.3											
	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 3 inches.												
45.0		874.3											
	SAND. Fine sand. Minor gravel to 4 inches.												
50.0		869.3											
	SAND. Fine sand. Very minor gravel to 1-1/2 inches.												
55.0		864.3											
	SAND. Fine sand. No gravel.												
60.0		859.3											
	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.												
65.0		854.3											
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. AAA1800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,100.52 mE +/- 0.02 m 4,951,800.84 mN +/- 0.02 m

Elevation (ft.): 922.0 +/- 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: 3/17/08 10:05 AM

Drilling Contractor: Braun Intertec

Completed: 3/17/08 11:45 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)			
1.5	TOPSOIL. Silty, black.										Loess	
2.5	SILT. Brown.											
5.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.					16.0	2.5	3.8	9.7	39.9		
10.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					32.0	1.1	7.0	23.9	46.6		
15.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.					22.7	2.6	7.2	12.9	31.7		
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					26.4	4.4	8.4	13.6	31.0		
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/4 inches.					29.7	15.3	6.3	8.1	38.7		
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					37.3	3.0	16.8	17.5	35.8		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.					26.7	2.5	6.8	17.4	29.0	Superior lobe outwash	
45.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.					14.3	0.0	3.8	10.4	29.1		
50.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.					23.5	0.0	5.2	18.2	24.5		
55.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					15.6	1.2	2.7	11.7	26.5		
65.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					17.4	8.0	2.2	7.1	23.9		
						21.8	2.4	4.5	14.9	29.0		
	T.D. 65 ft.											

23.3% + #4

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

DRILLING LOG

HOLE NO. AAA2000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,101.22 mE +/- 0.02 m 4,952,022.86 mN +/- 0.02 m

Elevation (ft.): 922.5 +/- 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: 3/17/08 12:30 PM

Drilling Contractor: Braun Intertec

Completed: 3/17/08 2:15 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	
2.5	SILT. Brown.											
5.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				21.8	3.2	5.5	13.1	37.8			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.											
15.0					37.5	9.1	8.4	20.0	41.8			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.											
20.0					32.2	3.9	9.8	18.5	34.5			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.											
25.0					25.1	3.5	6.4	15.3	22.8			
	SAND & GRAVEL. Fine to medium sand. Gravel to 4 inches.											
30.0					26.5	14.0	4.9	7.6	29.1			
	SAND. Fine to medium sand. Very minor gravel to 1 inch.										Superior lobe outwash	
35.0					8.5	0.0	2.1	6.3	19.9			
	SAND. Very fine to fine sand, dirty. Minor gravel to 1-1/2 inches.											
42.0					25.7	5.1	3.6	16.9	26.0			
	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.											
45.0												
	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches. Small sample volume. Sandstone from below displaced samples.											
55.0					31.5	2.3	7.0	22.2	24.6			
	SANDSTONE. Very fine sand, yellowish brown to white.											
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. AAA2200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,100.14 mE +/- 0.02 m 4,952,199.34 mN +/- 0.02 m

Elevation (ft.): 922.1 +/- 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: 3/17/08 2:20 PM

Drilling Contractor: Braun Intertec

Completed: 3/17/08 4:40 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

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)		
2.0 TOPSOIL. Silty, black.	920.1									Loess	
4.0 SILT. Sandy towards bottom of interval, brown.	918.1										
5.0 SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.	917.1				26.4	3.2	8.4	14.7	34.1	Superior lobe outwash	25.4% + #4
10.0 SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2 inches.	912.1				15.4	0.0	5.3	10.1	29.1		
SAND. Fine to coarse sand. Minor gravel to 1 inch.					15.1	0.0	4.8	10.3	32.1		
20.0	902.1				24.0	1.9	4.0	18.0	36.7		
SAND. Fine to very coarse sand, slightly dirty. Minor gravel to 3 inches, mostly less than 1 inch.	897.1				17.0	1.2	5.3	10.6	23.4		
SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					19.4	0.8	7.0	11.7	29.6		
35.0	887.1				29.1	2.0	5.2	21.9	37.6		
SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	882.1				32.5	3.6	8.6	20.3	32.6		
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	877.1				41.9	4.6	9.2	28.1	51.5		
GRAVEL & SAND. Fine to very coarse sand, slightly dirty. Gravel to 1-3/4 inches.	872.1				38.3	4.2	12.4	21.7	26.4		
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	869.1									St. Peter Sandstone	
55.0 SANDSTONE. Very fine sand, yellowish brown.	867.1										
T.D. 55 ft.											

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

DRILLING LOG

HOLE NO. AAA2600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,101.70 mE +/- 0.02 m 4,952,605.22 mN +/- 0.02 m

Elevation (ft.): 927.8 +/- 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: 3/19/08 10:30 AM

Drilling Contractor: Braun Intertec

Completed: 3/19/08 12:05 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.	926.3										Loess	
3.0	SILT. Brown.	924.8											
5.0	SAND. Fine sand. Very minor trace pea gravel.	922.8											
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.	917.8				5.8	0.6	0.8	4.4	33.4			
15.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	912.8											
20.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.	907.8				2.0	0.0	0.2	1.8	20.0			
25.0	SAND. Fine sand. No gravel.	902.8											
30.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 2 inches.					38.6	4.1	10.2	24.3	42.1			
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	892.8				31.6	4.5	6.5	20.5	28.3		Superior lobe outwash	19.4 % + #4
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	887.8				29.7	1.6	6.3	21.8	24.3			
45.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.	882.8				28.8	0.9	6.8	21.0	20.9			
50.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	877.8				31.6	1.9	10.1	19.6	32.6			
55.0	SAND. Fine to very coarse sand. Minor gravel to 1-1/4 inches.	872.8				21.6	1.5	3.8	16.3	17.7			
60.0	SAND. Fine to coarse sand. Minor gravel to 1 inch. Small sample volume.												
65.0		862.8				20.2	0.8	3.1	16.3	26.8			
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. AAA2800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,109.75 mE +/- 0.02 m 4,952,801.23 mN +/- 0.02 m

Elevation (ft.): 929.0 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of old Gopher Ordnance Works road slightly above natural grade.

Drilling Method: 9-inch flight auger

Started: 3/19/08 1:00 PM

Drilling Contractor: Braun Intertec

Completed: 3/19/08 2:20 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	FILL. Silty, sandy, gravelly.									Fill	
3.0	TOPSOIL. Silty, black.									Loess	
6.0	SILT. Brown. Lower contact based on drill action.										
	SAND. Fine sand: No gravel.										
15.0											
	SAND. Fine sand. Very minor trace gravel to 1 inch.					3.1	0.0	1.9	1.2	19.5	
25.0											
	SAND & GRAVEL. Medium to very coarse sand. Gravel to 3-1/2 inches.					32.3	4.9	4.5	22.8	38.3	
30.0											
	SAND. Medium to very coarse sand. Minor gravel to 1 inch.					23.2	2.1	6.3	14.8	29.6	
35.0											
	SAND. Fine to coarse sand. Minor gravel to 1 inch.					15.6	0.0	4.9	10.7	25.1	Superior lobe outwash
45.0											
	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches.					22.0	0.0	5.7	16.3	25.8	
50.0											
	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.					31.8	0.0	8.1	23.7	23.5	
55.0											
	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.					21.2	1.2	4.2	15.8	21.0	
60.0											
	SAND. Very fine to fine sand. No gravel.					23.7	0.0	3.8	19.8	26.5	
63.0											
65.0											
	T.D. 65 ft.										

17.4 % + #4

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

DRILLING LOG

HOLE NO. AAA3000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,100.49 mE +/- 0.02 m 4,952,999.56 mN +/- 0.02 m

Elevation (ft.): 927.0 +/- 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: 2/12/08 9:50 AM

Drilling Contractor: Braun Intertec

Completed: 2/12/08 11:05 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.											
7.0	SILT. Brown. Lower contact based on drill action.										Loess	
15.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.				4.3	0.0	1.3	3.0	32.2		Superior lobe outwash	17.1% + #4
20.0	SAND. Fine sand. Very minor trace gravel to 1/2 inch.											
25.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches, mostly pea gravel.				11.3	0.0	1.2	10.1	28.4			
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				31.1	0.9	10.3	19.8	37.1			
35.0	SAND. Fine to very coarse sand. Minor gravel to 1-1/4 inches.				19.8	0.0	3.3	16.5	27.4			
40.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/4 inches.				14.7	0.0	1.5	13.2	25.5			
45.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.				32.0	9.0	2.7	20.3	30.5			
50.0	SAND. Fine to very coarse sand. Minor gravel to 2-1/2 inches.				22.3	2.0	5.6	14.8	49.4			
55.0	SAND. Fine to very coarse sand. Minor gravel to 3/4 inch, mostly pea gravel. Small sample volume.											
65.0	SAND. Very fine to fine sand. No gravel.										Lacustrine sediment	
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. AAA3200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

496,100.19 mE +/- 0.02 m 4,953,201.61 mN +/- 0.02 m

Elevation (ft.): 926.7 +/- 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: 2/12/08 2:45 PM

Drilling Contractor: Braun Intertec

Completed: 2/12/08 4:10 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)			
2.0	SILT. Brown.										Loess	
5.0	SAND. Fine to coarse sand. Minor gravel to 1/2 inch.										Superior lobe outwash	26.8 % + #4
10.0	SAND. Fine sand. Very minor gravel to 1 inch.				19.4	5.2	7.1	7.0	33.3			
15.0	SAND. Fine sand. Minor gravel to 1-3/4 inches.											
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				35.0	10.0	9.2	15.8	39.4			
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				32.8	5.9	6.3	20.6	29.3			
30.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				24.6	5.5	8.7	10.5	32.9			
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				30.8	5.8	10.0	14.9	32.1			
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1 inch.				26.3	0.0	5.4	20.9	29.0			
45.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				30.9	0.8	4.0	26.1	21.3			
45.0	SAND. Very fine to fine sand. No gravel. High percentage gravel indicated by drill action from 45 to 53 feet. Deposit sampled above likely extends to 53 feet.									Lacustrine sediment		
65.0	T.D. 65 ft.											
Topsoil is missing - surface must be disturbed.												

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