

DRILLING LOG

HOLE NO. Q0800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 492,500.42 mE +/- 0.02 m 4,950,800.72 mN +/- 0.02 m
 Elevation (ft.): 946.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 62.0
 Ground Water Elevation (ft.): 884.2
 Site: Soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/5/07 2:05 PM
 Drilling Contractor: Braun Intertec Completed: 11/5/07 3:30 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 TOPSOIL. Silty, black.	944.7									Loess	
3.0 SILT. Brown.	943.2										
5.0 SAND. Fine sand, slightly dirty. Very minor gravel to 1 inch.	941.2										
10.0 SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	936.2										
15.0 SAND. Fine sand. Minor gravel to 5 inches.	931.2										
SAND. Fine sand. Very minor trace gravel to 3/4 inch.											
25.0	921.2										
SAND. Fine sand. Very minor gravel to 1 inch.											
35.0	911.2										
SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.										Superior lobe outwash	
40.0	906.2										
SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 3 inches. High percentage pea gravel.											
45.0	901.2										
SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.											
50.0											
55.0	891.2										
SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches. High percentage pea gravel.											
60.0	886.2										
SAND. Coarse to very coarse sand. Minor gravel to 1-1/2 inches. High percentage pea gravel.											
65.0	881.2										
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. Q1000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 492,500.05 mE +/- 0.02 m 4,950,999.81 mN +/- 0.02 m
 Elevation (ft.): 941.9 +/- 0.1 ft.
 Ground Water Depth (ft.): 58.0
 Ground Water Elevation (ft.): 883.9
 Site: Old soybean field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/25/07 9:25 AM
 Drilling Contractor: Braun Intertec Completed: 10/25/07 11:05 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	TOPSOIL. Silty, black.										Loess	
6.0	SILT. Brown. Lower contact based on drill action.											
20.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.				1.1	0.0	0.0	1.1	18.8	Superior lobe outwash	19.5 % + #4	
25.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				4.2	0.0	0.7	3.5	18.8			
30.0	SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.				4.4	0.0	0.5	3.9	22.9			
35.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2 inches.				5.9	0.0	0.7	5.3	26.0			
40.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 2 inches.				16.5	0.9	4.1	11.5	25.3			
45.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 3 inches.				29.3	8.2	7.0	14.1	29.0			
50.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 3 inches.				27.9	6.7	4.9	16.3	23.2			
55.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				29.4	2.9	8.1	18.4	31.8			
60.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty from 60 to 62 feet & dirty & iron stained from 62 to 65 feet. Gravel to 2 inches.				32.7	3.9	5.9	23.0	29.7			
65.0	T.D. 65 ft.				30.4	6.3	7.0	17.1	28.4			
					20.7	0.0	4.1	16.5	19.7			
					27.9	2.6	8.3	17.0	27.3			

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DRILLING LOG

HOLE NO. Q1200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 492,500.92 mE +/- 0.02 m 4,951,200.12 mN +/- 0.02 m
 Elevation (ft.): 944.0 +/- 0.1 ft.
 Ground Water Depth (ft.): 61.0
 Ground Water Elevation (ft.): 883.0
 Site: Soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/25/07 7:35 AM
 Drilling Contractor: Braun Intertec Completed: 10/25/07 9:15 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.									Loess	
2.0	SILT. Brown.									Superior lobe outwash	20.3 % + #4
5.0	SAND. Fine to medium sand, slightly dirty. Minor gravel to 1-1/4 inches.				25.1	0.0	11.0	14.1	13.9		
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				19.6	0.6	7.9	11.1	27.9		
15.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				24.7	8.1	7.6	9.0	26.1		
20.0	SAND. Fine to medium sand. Minor gravel to 3-1/2 inches.				22.2	7.2	6.1	9.0	25.9		
25.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				18.2	1.8	4.8	11.6	27.8		
30.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				12.8	0.0	3.7	9.1	24.5		
35.0	SAND. Fine to very coarse sand. Minor gravel to 2-1/2 inches.				22.4	8.0	2.9	11.5	25.2		
40.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch.				19.5	0.0	1.0	18.6	23.1		
45.0	SAND. Fine to medium sand. No gravel.										
50.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.										
55.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.										
60.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										
65.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.										
	T.D. 65 ft.										

Too much sand between 40 and 60 feet to justify sampling below 40 feet.

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

DRILLING LOG

HOLE NO. Q1400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,500.13 mE +/- 0.02 m 4,951,400.32 mN +/- 0.02 m

Elevation (ft.): 946.1 +/- 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: 10/24/07 3:50 PM

Drilling Contractor: Braun Intertec

Completed: 10/24/07 5:00 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	
4.0	SILT. Brown.											
5.0	SAND. Fine to medium sand, slightly dirty. Very minor trace gravel to 1 inch.				31.5	0.6	5.1	25.8	39.9	Superior lobe outwash	22.7% + #4	
10.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches. High percentage pea gravel.				22.3	3.8	5.2	13.3	27.2			
15.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				15.6	1.1	4.4	10.1	22.2			
20.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				19.6	3.3	3.1	13.3	30.7			
25.0	TILL. Clayey, sandy, brown.									Till		
30.0												
35.0												
40.0												
45.0	T.D. 45 ft.											

LOG A GNNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. Q1500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 492,500.03 mE +/- 0.02 m 4,951,499.83 mN +/- 0.02 m
 Elevation (ft.): 947.2 +/- 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: 2/25/08 7:30 AM
 Drilling Contractor: Braun Intertec Completed: 2/25/08 8:00 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)			
2.0	TOPSOIL. Silty, black.											
4.0	SILT. Brown.									Loess		
5.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.									Superior lobe outwash	27.2 % + #4	
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				29.2	9.2	5.9	14.2	43.9			
15.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				24.7	0.6	7.2	16.9	31.6			
18.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.											
20.0	TILL. Clayey, gray.									Till		
	T.D. 20 ft.											

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

DRILLING LOG

HOLE NO. Q1600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 492,568.76 mE +/- 0.02 m 4,951,636.63 mN +/- 0.02 m
 Elevation (ft.): 951.3 +/- 0.1 ft.
 Ground Water Depth (ft.): Ground water not encountered
 Ground Water Elevation (ft.):
 Site: Edge of snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 1/9/08 7:35 AM
 Drilling Contractor: Braun Intertec Completed: 1/9/08 8:20 AM
 Drill Rig: CME-750 Logged By: J.D. Lehr

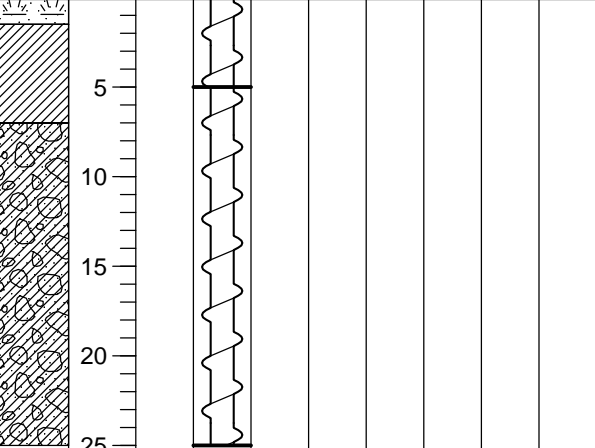
DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		

1.5 **TOPSOIL.** Silty, black. 949.8

SILT. Brown. Lower contact based on drill action. 944.3

7.0 **TILL.** Clayey, yellowish brown from 7 to 15 feet, gray from 15 to 25 feet. 926.3

25.0 T.D. 25 ft.
 No samples taken. No sand and gravel present.



Loess
 Till

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

DRILLING LOG

HOLE NO. Q1800

Page 1 of 1

Property: UMore Park Property

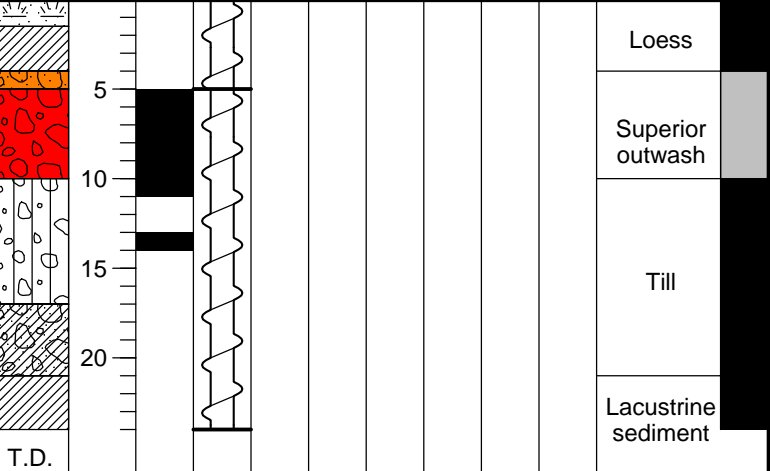
Location: City of Rosemount & Empire Township, Dakota County, Minnesota

UTM Zone 15/NAD83/NAVD88
 492,502.12 mE +/- 0.02 m 4,951,800.44 mN +/- 0.02 m
 Elevation (ft.): 945.4 +/- 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: 1/9/08 8:25 AM
 Drilling Contractor: Braun Intertec Completed: 1/9/08 9:20 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.	943.9									
4.0	SILT. Brown.	941.4									
5.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	940.4									
10.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1 inch, mostly pea gravel.	935.4									
17.0	SAND. Very fine to fine sand, very dirty. Very minor trace gravel to 1/2 inch.	928.4									
21.0	TILL. Clayey, brown.	924.4									
24.0	SILT. Clayey, gray & reddish brown mixed. Refusal at 24 feet in tight material - snapped extension bar.	921.4									



No samples taken. Only 6 feet of sand and gravel.

T.D.
24 ft.

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

DRILLING LOG

HOLE NO. Q2000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,500.56 mE +/- 0.02 m 4,951,999.69 mN +/- 0.02 m

Elevation (ft.): 946.1 +/- 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: 1/9/08 9:25 AM

Drilling Contractor: Braun Intertec

Completed: 1/9/08 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)	Geologic Interpretation	Economic Classification
1.5 TOPSOIL. Silty, dark brown.	944.6									Loess	
2.5 SILT. Brown.	943.6									Superior lobe outwash	
5.0 SAND. Very fine to fine sand, dirty. Minor gravel to 1-3/4 inches.	941.1										
10.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	936.1										
SAND. Fine to coarse sand. Very minor gravel to 2 inches.											
20.0	926.1										
SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
27.0	919.1										
30.0 TILL. Clayey, gray, hard.	916.1									Till	

T.D.
30 ft.

No samples taken. 2.5 to 5 feet is quite dirty, 5 to 10 feet has a good percentage gravel, but there is estimated less than 10 percent gravel from 10 to 27 feet.

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

DRILLING LOG

HOLE NO. Q2200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,423.14 mE +/- 0.02 m 4,952,198.93 mN +/- 0.02 m

Elevation (ft.): 943.8 +/- 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: 1/11/08 3:20 PM

Drilling Contractor: Braun Intertec

Completed: 1/11/08 4:10 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
2.0 TOPSOIL. Silty, black.	941.8									Loess	
6.0 SILT. Brown. Lower contact based on drill action.	937.8										
10.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	933.8									Superior lobe outwash	
15.0 SAND. Fine to medium sand. Very minor gravel to 1 inch.	928.8										
20.0 SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	923.8										
25.0 SAND. Fine to coarse sand. Very minor gravel to 1 inch.	918.8									Lacustrine sediment	
SAND. Very fine sand, dirty. No gravel.											
35.0	908.8										
45.0 SILT. Sandy (very fine), brown.	898.8										
T.D. 45 ft.											
No samples taken. Less than 10 percent gravel from 6 to 25 feet.											

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

DRILLING LOG

HOLE NO. Q2400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,499.49 mE +/- 0.02 m 4,952,399.72 mN +/- 0.02 m

Elevation (ft.): 942.0 +/- 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: 1/14/08 10:00 AM

Drilling Contractor: Braun Intertec

Completed: 1/14/08 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
2.0 TOPSOIL. Silty, black.	940.0									Loess	
5.0 SILT. Brown. Lower contact based on drill action.	937.0										
10.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	932.0									Superior lobe outwash	
SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
20.0 SAND. Fine to medium sand. No gravel.	922.0										
25.0 SAND. Very fine sand, dirty. Very minor trace gravel to 3/4 inch.	917.0									Lacustrine sediment	
33.0 SAND. Very fine to fine sand. No gravel.	909.0										
40.0 SAND. Fine sand. No gravel.	902.0										
45.0	897.0										
No samples taken. Estimated less than 5 percent gravel from 5 to 45 feet.		T.D. 45 ft.									

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

DRILLING LOG

HOLE NO. Q2600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,500.35 mE +/- 0.02 m 4,952,599.98 mN +/- 0.02 m

Elevation (ft.): 943.8 +/- 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: 1/15/08 7:25 AM

Drilling Contractor: Braun Intertec

Completed: 1/15/08 8:35 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)			
2.0	TOPSOIL. Silty, black.											
5.0	SILT. Brown.										Loess	
10.0	SAND. Fine to coarse sand, slightly dirty. Very minor gravel to 1-1/2 inches.										Superior lobe outwash	
25.0	SAND. Fine to medium sand. No gravel.											
30.0	SAND. Fine sand. No gravel.											
35.0	SAND. Fine to medium sand. Minor gravel to 2 inches.											
43.0	SILT. Brown.										Lacustrine sediment	
45.0	SAND. Very fine sand. No gravel.											
T.D. 45 ft.												
No samples taken. Estimated less than 5 percent gravel from 5 to 35 feet.												

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

DRILLING LOG

HOLE NO. Q2800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,500.44 mE +/- 0.02 m 4,952,798.95 mN +/- 0.02 m

Elevation (ft.): 945.1 +/- 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: 1/15/08 10:50 AM

Drilling Contractor: Braun Intertec

Completed: 1/15/08 1:25 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	944.1									Loess	
3.0	942.1										
5.0	940.1									Superior lobe outwash	23.4 % + #4
SAND. Very fine sand, dirty. No gravel.											
SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.					2.5	0.0	0.4	2.1	24.8		
15.0	930.1										
SAND. Fine to medium sand. Very minor gravel to 1 inch.					6.7	0.0	1.3	5.3	23.3		
20.0	925.1										
SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					29.6	6.2	7.0	16.3	26.5		
25.0	920.1										
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.					32.9	0.5	7.5	24.9	43.7		
30.0	915.1										
SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.					36.2	3.7	6.2	26.2	35.7		
35.0	910.1										
SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.					30.0	1.4	1.9	26.7	31.0		
40.0	905.1										
SAND. Medium to coarse sand. Minor gravel to 1 inch, mostly pea gravel.					16.1	0.0	1.6	14.6	24.2		
45.0	900.1										
SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches, mostly less than 3/4 inch.					36.1	1.2	5.8	29.1	29.6		
50.0	895.1										
SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches. Color change from dark brown to yellowish brown near middle of interval. Very rocky (drill action) 50 to 52 & 54 to 55.					30.1	0.0	8.1	22.0	31.8		
55.0	890.1										
SAND & GRAVEL. Fine to coarse sand, overall dirty & dirtier with depth. Gravel to 2-1/2 inches. Very rocky (drill action) from 60 to 61 feet. Refusal in coarse gravel at 61 feet.					32.7	5.6	6.1	20.9	39.1		
61.0	884.1										
	T.D. 61 ft.										

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

DRILLING LOG

HOLE NO. Q3000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,499.80 mE +/- 0.02 m 4,952,999.68 mN +/- 0.02 m

Elevation (ft.): 946.2 +/- 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: 1/15/08 1:30 PM

Drilling Contractor: Braun Intertec

Completed: 1/15/08 2:25 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 medium sand. Very minor trace gravel to 1/2 inch.				13.0	0.0	6.1	6.9	30.2	Superior lobe outwash	17.2 % + #4	
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				18.8	10.6	3.6	4.6	30.4			
15.0	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.				18.0	3.7	5.2	9.0	25.2			
25.0	SAND. Fine to medium sand. Minor gravel to 2 inches.				19.5	4.7	6.9	7.9	25.2			
25.0	NO RECOVERY. Samples displaced while drilling silt below. Similar to 20 to 25 feet based on drill action. Lower contact based on drill action.											
31.0	SILT. Sandy (very fine), brown.									Lacustrine sediment		
43.0												
45.0	SAND. Very fine sand. No gravel.											
	T.D. 45 ft.											

LOG A GNNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. Q3200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,500.15 mE +/- 0.02 m 4,953,199.05 mN +/- 0.02 m

Elevation (ft.): 939.3 +/- 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: 1/15/08 2:30 PM

Drilling Contractor: Braun Intertec

Completed: 1/15/08 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)				
1.0 TOPSOIL. Silty, black.	938.3										Loess		
3.0 SILT. Brown.	936.3												
5.0 SAND. Fine sand. Very minor gravel to 1-1/2 inches.	934.3												
10.0 SAND. Fine to coarse sand. Minor gravel to 2 inches.	929.3												
15.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	924.3												
20.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.	919.3												
25.0 SAND. Fine to medium sand. Very minor gravel to 1 inch.	914.3												
35.0 SILT. Sandy (very fine), brown.	904.3												
40.0 SAND. Very fine sand, slightly dirty & with thin silt lenses from 30 to 35 feet. No gravel.	899.3												
45.0 SAND. Very fine sand. No gravel.	894.3												
	T.D. 45 ft.												

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

DRILLING LOG

HOLE NO. Q3400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,500.91 mE +/- 0.02 m 4,953,399.30 mN +/- 0.02 m

Elevation (ft.): 941.2 +/- 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: 1/15/08 3:40 PM

Drilling Contractor: Braun Intertec

Completed: 1/15/08 4:30 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)	Geologic Interpretation	Economic Classification
1.0 TOPSOIL. Silty, black.	940.2									Loess	
2.0 SILT. Brown.	939.2									Superior lobe outwash	
5.0 SAND. Fine to coarse sand. Very minor gravel to 3 inches.	936.2										
10.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	931.2										
15.0 SAND. Fine to medium sand. Very minor gravel to 3-1/2 inches, mostly less than 1 inch.	926.2										
20.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	921.2										
25.0 SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	916.2									Lacustrine sediment	
30.0 SAND. Very fine sand, slightly dirty. No gravel in samples. Gravel indicated by drill action .	911.2										
35.0 SILT. Sandy (very fine), brown.	906.2										
40.0 SAND. Very fine sand. No gravel.	901.2										
T.D. 40 ft.											

No samples taken. Estimated less than 10 percent gravel from 2 to 25 feet.

LOG A GNNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. Q3600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,546.58 mE +/- 0.02 m 4,953,598.53 mN +/- 0.02 m

Elevation (ft.): 942.0 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field apparently at natural grade, but 0 to 20 feet appears disturbed..

Drilling Method: 9-inch flight auger

Started: 1/16/08 9:00 AM

Drilling Contractor: Braun Intertec

Completed: 1/16/08 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)						
2.0	FILL. Fine to coarse sand. Minor gravel to 1-1/4 inches.	940.0												Fill	
3.0		939.0												Loess	
5.0	SILT. Sandy, brown.	937.0												Superior lobe outwash	17.5% + #4
10.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.	932.0			16.6	1.4	4.1	11.0	40.1						
15.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.	927.0			13.4	2.5	5.3	5.6	26.3						
20.0	SAND. Fine to coarse sand. Very minor gravel to 2 inches.	927.0			18.9	6.9	4.3	7.7	30.7						
25.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	917.0			23.4	11.6	2.7	9.2	30.2						
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches. Lower contact based on drill action.	917.0			16.4	1.2	2.7	12.4	18.3						
33.0	SILT. Sandy (very fine), brown.	909.0												Lacustrine sediment	
38.0		904.0													
40.0	SAND. Very fine sand. No gravel.	902.0													
	T.D. 40 ft.														

LOG A GNNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. Q3800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

492,537.94 mE +/- 0.02 m 4,953,801.04 mN +/- 0.02 m

Elevation (ft.): 938.4 +/- 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: 1/16/08 10:00 AM

Drilling Contractor: Braun Intertec

Completed: 1/16/08 11:00 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)			
2.0	TOPSOIL. Silty, black.											
4.5	SILT. Brown.									Loess		
5.0	SAND. Fine to coarse sand. Very minor pea gravel.				3.6	0.0	0.5	3.0	30.5	Superior lobe outwash	10.6 % + #4	
10.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.				18.3	4.8	5.3	8.2	31.3			
15.0	SAND. Fine to coarse sand. Minor gravel to 3 inches, mostly less than 1 inch.				11.1	0.0	2.8	8.3	28.1			
20.0	SAND. Medium to very coarse sand. Very minor gravel to 1 inch.				14.0	2.9	2.5	8.6	23.2			
25.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches.									Lacustrine sediment		
30.0	SAND. Very fine to fine sand. No gravel. Silt lenses present.											
35.0	SAND. Very fine to fine sand. No gravel.									Superior lobe outwash		
40.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
45.0	SAND. Fine to medium sand. No gravel.											
	T.D. 45 ft.											

LOG A GNNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. QQ0900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,102.52 mE +/- 0.02 m 4,950,900.80 mN +/- 0.02 m

Elevation (ft.): 933.2 +/- 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: 11/15/07 7:15 AM

Drilling Contractor: Braun Intertec

Completed: 11/15/07 7:55 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 TOPSOIL. Silty, black.	932.2									Loess	
3.0 SILT. Brown.	930.2									S.L.O.	
5.0 SAND. Fine sand. No gravel.	928.2									Till	
SAND. Very fine to fine sand, reddish brown. Very minor gravel to 1 inch. Lower contact based on drill action.	921.2									Till	
12.0 SILT. Yellowish brown.	913.2									Loess	
20.0	908.2									Loess	
SAND. Very fine sand, dirty. No gravel. Faint showing of outwash at very bottom of run.	908.2									Loess	
25.0										Loess	
No samples taken - no outwash in upper 25 feet.											
T.D. 25 ft.											

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

DRILLING LOG

HOLE NO. QQ1100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 495,099.86 mE +/- 0.02 m 4,951,104.92 mN +/- 0.02 m
 Elevation (ft.): 931.3 +/- 0.1 ft.
 Ground Water Depth (ft.): 39.0
 Ground Water Elevation (ft.): 892.3
 Site: Edge of soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/14/07 3:35 PM
 Drilling Contractor: Braun Intertec Completed: 11/14/07 4:40 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. Very minor gravel to 3/4 inch.					3.4	0.0	0.4	3.0	35.5		Superior lobe outwash	16.1% + #4
10.0	SAND. Fine sand: No gravel.												
15.0	SAND. Fine sand. Very minor gravel to 2-1/2 inches.					5.5	3.1	1.4	1.0	21.9			
20.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2-1/2 inches.					38.6	6.5	10.0	22.1	33.6			
25.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					21.9	3.4	6.0	12.5	30.1			
30.0	NO RECOVERY. Samples displaced while drilling till below. Assumed sand with an unknown percentage gravel. Not much gravel indicated by drill action.											Till	
45.0	TILL. Clayey, gray.												
	T.D. 45 ft.												

LOG A GNNN08 UMORE PARK DRILLING LOGS.GPJ LOG A GNNN08.GDT Printed 5/30/08

DRILLING LOG

HOLE NO. QQ1300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,099.30 mE +/- 0.02 m 4,951,303.06 mN +/- 0.02 m

Elevation (ft.): 930.5 +/- 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: 11/14/07 1:45 PM

Drilling Contractor: Braun Intertec

Completed: 11/14/07 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)			
0.5	TOPSOIL. Silty, dark brown.										Loess	
3.0	SILT. Brown.											
5.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches.					14.8	1.4	4.5	8.9	35.4	Superior lobe outwash	29.6 % + #4
10.0	SAND. Fine sand: No gravel.											
15.0	SAND & GRAVEL. Fine to medium sand. Gravel to 2-1/2 inches.					37.8	19.1	10.7	8.1	30.2		
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					22.7	3.4	6.9	12.4	21.0		
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.					25.2	14.3	2.8	8.0	28.2		
30.0	GRAVEL & SAND. Fine to coarse sand, slightly dirty. Gravel to 3-1/2 inches.					46.2	6.6	7.6	32.0	31.0		
35.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches.					36.1	0.0	7.8	28.3	28.2		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches. Color change to yellowish brown is in this interval.					30.1	0.0	13.1	17.0	16.3		
45.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.										Older outwash	
50.0	SAND. Fine to coarse sand, dirty to very dirty. Minor gravel to 1 inch. Till balls present. Yellowish brown & limestone-rich. Gradational with below.											
	TILL. Clayey, sandy, yellowish brown.										Till	
60.0	T.D. 60 ft.											

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

DRILLING LOG

HOLE NO. QQ1500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,100.01 mE +/- 0.02 m 4,951,500.16 mN +/- 0.02 m

Elevation (ft.): 929.2 +/- 0.1 ft.

Ground Water Depth (ft.): 57.0

Ground Water Elevation (ft.): 872.2

Site: Soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/14/07 11:05 AM

Drilling Contractor: Braun Intertec

Completed: 11/14/07 12:25 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)			
0.5	TOPSOIL. Sandy, silty, dark brown.											
4.0	SAND. Very fine sand, slightly dirty. No gravel.									Loess		
5.0												
10.0	SAND. Fine sand. Very minor gravel to 1 inch.				9.1	0.0	1.6	7.5	34.0			
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				17.8	2.9	5.4	9.6	26.6			
20.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				18.2	1.7	6.4	10.2	27.9			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				28.2	5.1	7.0	16.1	32.3			
30.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				15.2	0.7	4.0	10.4	23.7	Superior lobe outwash		
35.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				7.1	0.0	1.4	5.7	19.2			
40.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				16.4	0.0	5.1	11.2	17.5			
45.0	SAND. Fine sand. No gravel.											
57.0	TILL. Clayey, sandy, yellowish brown to brown.									Till		
60.0	SAND. Fine sand, dirty. No gravel.									Older outwash		
	T.D. 60 ft.											

15.8% + #4

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

DRILLING LOG

HOLE NO. QQ1700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,167.77 mE +/- 0.02 m 4,951,681.48 mN +/- 0.02 m

Elevation (ft.): 927.9 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered clearing in woods, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 3/26/08 1:15 PM

Drilling Contractor: Braun Intertec

Completed: 3/26/08 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)	Geologic Interpretation	Economic Classification
FILL. Silty, black. Lower contact based on drill action.	7.0									Fill	
	920.9										
SAND. Fine sand. Very minor gravel to 1 inch.	15.0				5.2	0.0	2.3	2.9	22.4	Superior lobe outwash	22.9 % + #4
	912.9										
SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	20.0				11.6	0.9	3.3	7.4	29.5		
	907.9										
SAND. Fine to very coarse sand. Very minor gravel to 1 inch.	25.0				43.2	2.9	13.0	27.3	43.0		
	902.9										
GRAVEL & SAND. Fine to coarse sand. Gravel to 2 inches.	30.0				33.0	6.5	5.5	21.1	28.7		
	897.9										
SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.	40.0				36.6	1.8	6.0	28.8	39.7		
	887.9										
SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches. Small sample.	45.0				18.9	2.2	5.5	11.2	33.2		
	882.9										
SAND. Fine to medium sand. Minor gravel to 2-1/4 inches.	50.0				23.5	2.3	7.3	13.9	35.4		
	877.9										
SAND. Fine sand. No gravel.	55.0										
	872.9										
SAND. Fine to medium sand, slightly iron stained from 60 to 65 feet. Minor gravel to 1-1/2 inches.	65.0										
	862.9										
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. QQ1900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,098.65 mE +/- 0.02 m 4,951,904.06 mN +/- 0.02 m

Elevation (ft.): 927.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered open area, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 3/24/08 1:10 PM

Drilling Contractor: Braun Intertec

Completed: 3/24/08 2:35 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)			
2.0	TOPSOIL. Silty, black.										Loess	
5.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										Superior lobe outwash	26.7% + #4
10.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				15.6	1.5	7.2	6.8	39.4			
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.				26.3	2.7	10.6	12.9	31.7			
20.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				25.1	3.6	9.6	11.9	33.8			
25.0	SAND. Fine to very coarse sand. Very minor gravel to 4 inches.				13.5	4.9	1.2	7.4	21.2			
30.0	GRAVEL & SAND. Fine to coarse sand. Gravel to 3-1/2 inches. High percentage gravel greater than 1-1/2 inches.				40.6	18.9	8.0	13.7	40.9			
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3 inches.				34.8	5.3	5.4	24.1	32.6			
48.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches. Lower contact based on drill action.				35.7	7.3	5.2	23.2	29.9			
65.0	SAND. Fine sand. No gravel.				28.6	6.0	6.5	16.1	25.5			
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. QQ2100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,100.01 mE +/- 0.02 m 4,952,101.06 mN +/- 0.02 m

Elevation (ft.): 928.4 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered clearing in woods, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 3/26/08 7:30 AM

Drilling Contractor: Braun Intertec

Completed: 3/26/08 9:20 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
FILL. Silty, sandy, gravelly.	5.0									Fill	
TOPSOIL. Silty, black. Lower contact based on drill action.	8.0									Loess	
SAND. Fine to medium sand. Minor gravel to 1-3/4 inches.	15.0				21.9	2.1	5.0	14.8	46.4	Superior lobe outwash	27.9% + #4
SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	20.0				32.1	4.1	7.9	20.1	33.2		
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.	25.0				35.0	0.0	7.1	27.9	20.8		
SAND. Fine to very coarse sand. Minor gravel to 1-1/4 inches.	30.0				24.9	0.0	7.6	17.3	26.6		
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches. Small sample.	35.0				28.0	0.8	7.8	19.4	36.8		
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.	40.0										
SAND. Fine sand. No gravel.	45.0										
SAND. Fine to medium sand. No gravel.	55.0										
SAND. Fine sand. 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. QQ2300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,100.04 mE +/- 0.02 m 4,952,291.30 mN +/- 0.02 m

Elevation (ft.): 930.9 +/- 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: 3/20/08 3:20 PM

Drilling Contractor: Braun Intertec

Completed: 3/20/08 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)			
0.5	TOPSOIL. Silty, black.										Loess	
2.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.											
10.0	SAND. Fine sand: Minor gravel to 3-1/2 inches.					18.3	7.8	5.1	5.4	37.6		
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					31.6	10.4	10.9	10.3	34.0		
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.					28.4	11.7	7.7	8.9	30.3		
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.					28.8	9.4	5.8	13.6	27.4		
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3 inches.					31.3	8.3	6.6	16.4	34.8		
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.					30.2	4.6	8.0	17.7	35.8		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.					35.1	9.8	7.6	17.7	38.4	Superior lobe outwash	
45.0	SAND. Fine to coarse sand. Very minor gravel to 2 inches. Higher percentage gravel indicated by drill action.					26.0	2.6	5.2	18.2	28.3		
50.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.					11.2	4.8	1.7	4.7	28.6		
55.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.											
65.0	T.D. 65 ft.											

26.2 % + #4

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

DRILLING LOG

HOLE NO. QQ2500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,128.73 mE +/- 0.02 m 4,952,499.74 mN +/- 0.02 m

Elevation (ft.): 932.8 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of snow covered Gopher Ordnance Works road.

Drilling Method: 9-inch flight auger

Started: 3/21/08 10:50 AM

Drilling Contractor: Braun Intertec

Completed: 3/21/08 12:10 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)		
3.0	FILL. Silty, sandy, gravelly.									Fill	
4.0	SILT. Brown.									Loess	
5.0	SAND. Fine to medium sand. Very minor trace pea gravel.				12.4	0.7	2.5	9.1	35.1	Superior lobe outwash	20.7% + #4
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				15.0	0.0	3.1	11.9	26.4		
15.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				7.1	0.0	2.1	4.9	22.2		
20.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				14.9	2.9	5.3	6.8	25.1		
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/4 inches.				26.6	3.5	7.2	15.9	33.8		
30.0	SAND. Fine to very coarse sand. Minor gravel to 3 inches.				22.9	6.8	4.2	11.8	31.2		
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.				27.0	4.3	5.6	17.1	26.4		
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 4 inches.				32.3	6.3	6.7	19.4	25.8		
45.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				34.9	14.6	7.0	13.3	37.0		
50.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				25.1	0.9	7.2	17.0	26.1		
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				14.0	0.0	1.7	12.3	21.8		
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				17.9	0.0	3.8	14.2	20.4		
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. QQ2700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,132.76 mE +/- 0.02 m 4,952,697.65 mN +/- 0.02 m

Elevation (ft.): 933.8 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of snow covered Gopher Ordnance Works road, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 3/21/08 9:00 AM

Drilling Contractor: Braun Intertec

Completed: 3/21/08 10:30 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)				
2.0	FILL. Silty, sandy, gravelly.	931.8									Fill		
4.0	SILT. Brown.	929.8									Loess		
5.0	SAND. Fine to medium sand, dirty. Very minor gravel to 1 inch.	928.8									Superior lobe outwash	20.2 % + #4	
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	923.8				14.2	3.7	3.3	7.1	29.1			
15.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.	918.8											
20.0	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.	913.8				16.9	8.7	4.3	3.9	29.4			
25.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.	908.8											
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.	903.8				31.3	1.2	5.5	24.7	49.1			
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1 inch.	898.8				31.2	0.0	5.2	26.0	28.2			
40.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	893.8				19.5	1.0	3.9	14.6	31.1			
45.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch.	888.8				17.7	0.0	3.3	14.4	26.4			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	883.8				20.5	2.7	5.2	12.6	19.6			
55.0	SAND. Fine to very coarse sand. Minor gravel to 1 inch.	878.8				20.3	0.0	4.3	16.0	18.3			
65.0	SAND. Fine to very coarse sand. Minor gravel to 3/4 inch. Small sample volume.	868.8				19.8	0.0	2.0	17.8	33.3			
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. QQ2900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,097.11 mE +/- 0.02 m 4,952,910.46 mN +/- 0.02 m

Elevation (ft.): 935.5 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered field, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 2/7/08 10:00 AM

Drilling Contractor: Braun Intertec

Completed: 2/7/08 11:20 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
	5.0									Fill	
	7.0										
	10.0										
	928.5										
	925.5				3.5	0.0	1.7	1.8	22.0		
	920.5				26.8	12.3	8.0	6.5	30.2		
	915.5				36.4	15.8	10.2	10.3	34.7		
	910.5				32.4	5.4	7.6	19.3	29.6		
	905.5				38.1	18.5	5.4	14.1	29.0		
	900.5				28.4	8.0	8.0	12.4	30.3	Superior lobe outwash	25.7 % + #4
	895.5				23.6	5.9	4.0	13.7	23.6		
	890.5				28.9	5.7	6.3	16.9	27.3		
	885.5				22.7	0.9	3.2	18.6	18.1		
	880.5				26.5	3.9	3.3	19.3	18.2		
	875.5				28.3	0.0	3.7	24.6	15.1		
	870.5										
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. QQ3100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,092.64 mE +/- 0.02 m 4,953,032.99 mN +/- 0.02 m

Elevation (ft.): 930.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

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

Drilling Method: 9-inch flight auger

Started: 2/7/08 12:05 PM

Drilling Contractor: Braun Intertec

Completed: 2/7/08 1:15 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
FILL. Sandy, silty, gravelly.	5									Fill	
	16.0	914.6									
SAND. Fine to coarse sand, slightly dirty. Very minor gravel to 1 inch.	20				12.9	0.0	3.2	9.7	26.4	Superior lobe outwash	15.0 % + #4
	30.0	900.6			7.5	0.0	0.5	7.0	31.8		
SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1/2 inch.	35.0	895.6			26.8	7.3	4.4	15.1	23.1	Superior lobe outwash	15.0 % + #4
	40.0	890.6			16.2	0.0	4.3	12.0	25.8		
SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 3-1/2 inches.	45.0	885.6			20.5	0.0	6.3	14.2	17.9	Superior lobe outwash	15.0 % + #4
	50.0	880.6									
SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	54.0	876.6								Till	
	55.0	875.6									
T.D. 55 ft.	55										

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

DRILLING LOG

HOLE NO. QQ3300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,101.48 mE +/- 0.02 m 4,953,299.88 mN +/- 0.02 m

Elevation (ft.): 931.0 +/- 0.1 ft.

Ground Water Depth (ft.): 40.0

Ground Water Elevation (ft.): 891.0

Site: Snow covered field, surface disturbed.

Drilling Method: 9-inch flight auger

Started: 2/11/08 1:20 PM

Drilling Contractor: Braun Intertec

Completed: 2/11/08 2:10 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	FILL. Sandy, gravelly, silty.										Fill	
5.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1 inch.										Superior lobe outwash	21.4% + #4
10.0	SAND. Fine sand. Very minor gravel to 1 inch.				7.5	1.2	3.3	3.0	32.4			
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch.				37.9	6.5	9.1	22.3	35.9			
20.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				24.3	4.7	7.0	12.6	27.8			
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1 inch. Small sample volume - auger caught on large rock knocking off sample.										Older outwash	
30.0	SAND. Very fine to fine sand, dirty. Minor gravel to 1-1/2 inches.											
45.0	SAND. Very fine sand, slightly dirty. No gravel.										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. QQ3500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,099.41 mE +/- 0.02 m 4,953,501.02 mN +/- 0.02 m

Elevation (ft.): 933.6 +/- 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: 2/8/08 10:05 AM

Drilling Contractor: Braun Intertec

Completed: 2/8/08 11:10 AM

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.									Loess	
4.0	SILT. Brown.										
5.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.									Superior lobe outwash	
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.										
15.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.										
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.										
30.0	SAND. Medium to very coarse sand. Very minor gravel to 1/2 inch.										
35.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 1-1/2 inches.									Lacustrine sediment	
38.0	NO RECOVERY. Samples displaced while drilling clay below. Similar to 30 to 35 feet based on drill action.										
41.0	CLAY. Yellowish brown.										
	T.D. 41 ft.										

No samples taken. Estimated less than 10 percent gravel from 4 to 30 feet.

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

DRILLING LOG

HOLE NO. QQ3700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,099.82 mE +/- 0.02 m 4,953,700.31 mN +/- 0.02 m

Elevation (ft.): 935.7 +/- 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: 2/8/08 11:45 AM

Drilling Contractor: Braun Intertec

Completed: 2/8/08 12:20 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)	Geologic Interpretation	Economic Classification
1.0 TOPSOIL. Silty, black.	934.7									Loess	
3.0 SILT. Brown.	932.7										
5.0 SAND. Fine sand. Very minor trace gravel to 3/4 inch.	930.7									Superior lobe outwash	
10.0 SAND. Fine to medium sand. Very minor trace pea gravel.	925.7										
15.0 SAND. Fine to medium sand. Very minor trace gravel to 1-3/4 inches.	920.7										
SAND. Fine sand. No gravel.	915.7										
25.0 SAND. Fine to medium sand. Very minor gravel to 3/4 inch.	910.7										
30.0 NO RECOVERY. Samples displaced while drilling till below. Drilled like sand & gravel.	905.7									Till	
35.0 TILL. Clayey, gray.	900.7										
No samples taken. Estimated less than 5 percent gravel from 3 to 25 feet.											
T.D. 35 ft.											

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