

DRILLING LOG

HOLE NO. W0900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,099.96 mE +/- 0.02 m 4,950,899.94 mN +/- 0.02 m

Elevation (ft.): 941.2 +/- 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: 10/26/07 7:35 AM

Drilling Contractor: Braun Intertec

Completed: 10/26/07 8:35 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

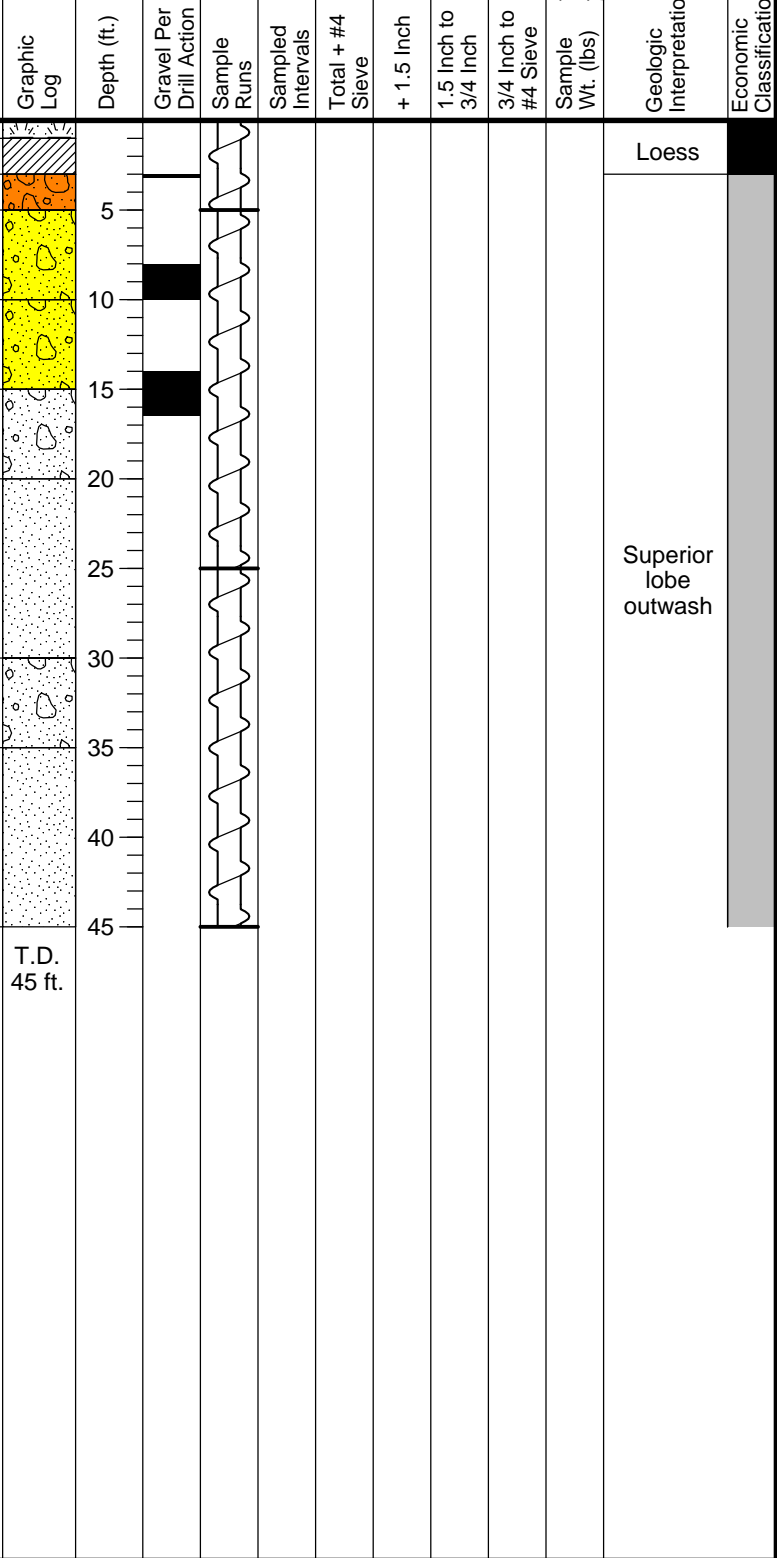
DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation

Economic Classification

1.0	TOPSOIL. Silty, black.	940.2
3.0	SILT. Brown.	938.2
5.0	SAND. Fine to medium sand, slightly dirty. Minor gravel to 1 inch.	936.2
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	931.2
15.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	926.2
20.0	SAND. Fine to medium sand. Very minor trace gravel to 1-1/4 inches.	921.2
30.0	SAND. Fine to medium sand. No gravel.	911.2
35.0	SAND. Fine to coarse sand. Very minor trace gravel to 1 inch.	906.2
45.0	SAND. Fine to medium sand. No gravel.	896.2



No samples taken. Estimated less than 5 percent gravel.

T.D.
45 ft.

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

DRILLING LOG

HOLE NO. W1100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,100.85 mE +/- 0.02 m 4,951,099.73 mN +/- 0.02 m
 Elevation (ft.): 942.4 +/- 0.1 ft.
 Ground Water Depth (ft.): 53.0
 Ground Water Elevation (ft.): 889.4
 Site: Soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/25/07 3:20 PM
 Drilling Contractor: Braun Intertec Completed: 10/25/07 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.	941.4										Loess		
2.0 SILT. Brown.	940.4												
4.0 SAND. Very fine sand, dirty. No gravel.	938.4										Superior lobe outwash	28.0 % + #4	
5.0 SAND. Fine to medium sand, slightly dirty. Very minor trace gravel to 1-1/2 inches.	937.4				21.1	5.0	7.2	8.9	33.6				
10.0 SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.	932.4				25.2	3.3	7.5	14.4	23.1				
15.0 SAND & GRAVEL. Fine to medium sand. Gravel to 1-3/4 inches.	927.4				27.8	7.1	5.7	14.9	24.5				
20.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.	922.4				26.8	2.2	7.4	17.2	25.5				
25.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	917.4				27.3	2.9	9.9	14.5	28.1				
SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.					28.0	7.4	8.5	12.1	22.8				
30.0					31.2	9.7	4.2	17.3	19.2				
35.0					38.3	11.9	5.8	20.6	28.9				
40.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.	902.4												
45.0 SAND. Fine to coarse sand, dirty & iron stained. Minor gravel to 3/4 inch.	897.4									Lacustrine sediment			
50.0 SAND & GRAVEL. Fine to coarse sand, very dirty & very iron stained. Gravel to 1-1/2 inches.	892.4												
55.0 CLAY. Red, hard. Refusal in tight clay at 56 feet.	887.4												
56.0 CLAY. Red, hard. Refusal in tight clay at 56 feet.	886.4												
Interval 45 to 55 too dirty and iron-stained to sample.													
	T.D. 56 ft.												

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

DRILLING LOG

HOLE NO. W1300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,100.05 mE +/- 0.02 m 4,951,298.55 mN +/- 0.02 m
 Elevation (ft.): 941.1 +/- 0.1 ft.
 Ground Water Depth (ft.): 63.0
 Ground Water Elevation (ft.): 878.1
 Site: Soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 10/25/07 1:20 PM
 Drilling Contractor: Braun Intertec Completed: 10/25/07 3:15 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0	TOPSOIL. Silty, black.										Loess	
5.0	SAND. Fine to medium sand. Very minor trace gravel to 2 inches.				4.2	0.0	0.9	3.3	24.7		Superior lobe outwash	19.5 % + #4
10.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch. High percentage pea gravel.				32.6	0.0	3.3	29.2	26.7			
15.0	SAND. Fine to medium sand. Minor gravel to 1 inch.				18.3	1.4	3.4	13.5	24.7			
20.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				15.4	1.1	3.1	11.2	20.0			
25.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.				20.1	2.4	7.2	10.5	29.9			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				25.0	1.8	6.9	16.3	19.1			
35.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.				21.0	1.4	7.3	12.2	18.9			
40.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				24.7	6.0	4.7	14.0	22.5			
45.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				23.9	2.9	5.2	15.7	28.4			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				20.7	1.8	4.4	14.5	19.2			
55.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				16.6	0.0	3.9	12.7	18.0			
60.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				13.9	0.0	2.2	11.7	17.9			
65.0	▼ 876.1				14.0	0.0	1.4	12.7	16.7			
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. W1500

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,067.33 mE +/- 0.02 m 4,951,500.40 mN +/- 0.02 m

Elevation (ft.): 942.1 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of Akron Avenue at approximately natural grade.

Drilling Method: 9-inch flight auger

Started: 10/25/07 11:20 AM

Drilling Contractor: Braun Intertec

Completed: 10/25/07 1:15 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)			
0.5	TOPSOIL. Silty, black.										Loess	
6.0	SILT. Sandy in places, brown. Lower contact based on drill action.											
10.0	SAND. Fine to medium sand. Minor gravel to 1-1/4 inches.				15.3	0.0	3.6	11.7	28.3	Superior lobe outwash	18.3 % + #4	
15.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				16.0	0.9	5.9	9.1	22.3			
20.0	SAND. Fine to medium sand. Minor gravel to 2 inches.				15.1	3.0	5.1	7.0	27.3			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				31.4	8.2	9.8	13.4	40.1			
30.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				15.7	1.0	4.6	10.1	22.1			
35.0	SAND. Fine to coarse sand, slightly dirty. Minor gravel to 2-1/2 inches.				15.8	2.3	3.3	10.2	18.3			
45.0	TILL. Sandy, silty, reddish brown.									Till		
	T.D. 45 ft.											

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

DRILLING LOG

HOLE NO. W1700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,061.45 mE +/- 0.02 m 4,951,704.74 mN +/- 0.02 m

Elevation (ft.): 938.1 +/- 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: 1/10/08 8:15 AM

Drilling Contractor: Braun Intertec

Completed: 1/10/08 8:50 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
FILL. Silty, sandy. Very minor gravel to 2 inches, dark brown. Lower contact based on drill action.	6.0 932.1									Fill	
SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	10.0 928.1									Superior lobe outwash	
SAND. Fine to coarse sand. Very minor gravel to 1 inch.	17.0 921.1										
SAND. Very fine to fine sand, very dirty. Very minor gravel to 1-1/2 inches.	23.0 915.1									Till	
TILL. Sandy, clayey, brown.	25.0 913.1										

T.D. 25 ft.
No samples taken. Estimated 10 percent gravel from 6 to 17 feet.

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

DRILLING LOG

HOLE NO. W1900

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,100.73 mE +/- 0.02 m 4,951,900.49 mN +/- 0.02 m
 Elevation (ft.): 935.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 24.0
 Ground Water Elevation (ft.): 911.2
 Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 1/10/08 8:55 AM
 Drilling Contractor: Braun Intertec Completed: 1/10/08 9:45 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)		

4.5	930.7										Loess	
6.5	928.7											
10.0	925.2										Superior lobe outwash	
20.0	915.2											
27.0	908.2											
30.0	905.2										Till	

T.D. 30 ft.

No samples taken. Estimated less than 5 percent gravel from 6.5 to 27 feet. Field sample photographs incorrectly labeled W1700.

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

DRILLING LOG

HOLE NO. W2100

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,099.29 mE +/- 0.02 m 4,952,098.85 mN +/- 0.02 m

Elevation (ft.): 943.3 +/- 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: 1/10/08 9:50 AM

Drilling Contractor: Braun Intertec

Completed: 1/10/08 10:25 AM

Drill Rig: CME-750

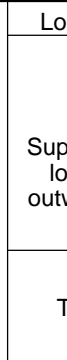
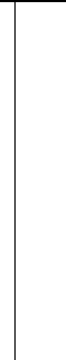
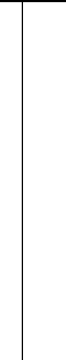
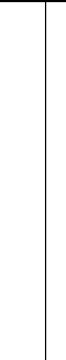
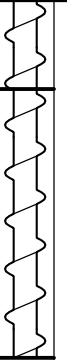
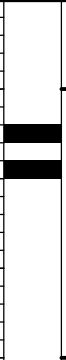
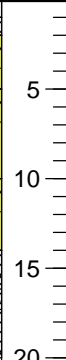
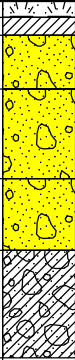
Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

1.0	TOPSOIL. Silty, black.	942.3
2.0	SILT. Brown.	941.3
5.0	SAND. Fine to medium sand. Very minor gravel to 1/2 inch.	938.3
10.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	933.3
14.0	SAND. Fine to medium sand. Very minor gravel to 1/2 inch. Lower contact based on drill action.	929.3
20.0	TILL. Clayey, yellowish brown.	923.3



Loess
Superior lobe outwash
Till

No samples taken. Estimated 5 percent gravel from 2 to 14 feet.

T.D.
20 ft.

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

DRILLING LOG

HOLE NO. W2300

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,099.94 mE +/- 0.02 m 4,952,299.52 mN +/- 0.02 m

Elevation (ft.): 943.2 +/- 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: 1/11/08 10:25 AM

Drilling Contractor: Braun Intertec

Completed: 1/11/08 11:15 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)			
1.5 TOPSOIL. Silty, black.	941.7										Loess	
3.0 SILT. Brown.	940.2											
5.0 SAND. Fine to coarse sand. Minor gravel to 1 inch, mostly pea gravel.	938.2										Superior lobe outwash	13.4 % + #4
SAND. Fine to medium sand. Very minor trace gravel to 1 inch.					5.2	0.0	1.1	4.0	30.4			
15.0	928.2											
SAND. Fine to medium sand. Very minor trace gravel to 1-1/2 inches.	20.0				14.5	4.1	3.8	6.7	28.7			
SAND. Fine to coarse sand. Minor gravel to 2 inches.	25.0				21.9	1.1	3.3	17.5	42.5			
SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches. Very rocky (drill action) from 35 to 37 feet. Refusal in coarse gravel at 37 feet.	37.0				19.9	1.5	3.6	14.8	27.2			
	906.2											
	T.D. 37 ft.											

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

DRILLING LOG

HOLE NO. W2400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,100.26 mE +/- 0.02 m 4,952,398.70 mN +/- 0.02 m

Elevation (ft.): 941.1 +/- 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: 3/3/08 12:30 PM

Drilling Contractor: Braun Intertec

Completed: 3/3/08 1:40 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)			
1.0	TOPSOIL. Silty, dark brown.	940.1									Loess	
2.0	SILT. Brown.	939.1										
5.0	SAND. Very fine sand, dirty. Very minor gravel to 1-1/2 inches.	936.1									Superior lobe outwash	22.2 % + #4
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	931.1										
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	926.1			8.9	0.0	3.2	5.7	33.4			
20.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	921.1										
25.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.	916.1										
30.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 1-1/2 inches. High percentage pea gravel.	911.1			32.3	0.0	6.2	26.0	34.2			
35.0	GRAVEL & SAND. Fine to very coarse sand, slightly dirty. Gravel to 4 inches.	906.1			44.1	9.7	6.9	27.6	39.0			
41.0	GRAVEL & SAND. Fine to very coarse sand, slightly dirty. Gravel to 3-1/2 inches.	900.1			40.1	5.3	7.6	27.2	43.5			
45.0	TILL. Clayey, gray, hard.	896.1									Till	
	T.D. 45 ft.											

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

DRILLING LOG

HOLE NO. W2500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,098.68 mE +/- 0.02 m 4,952,499.33 mN +/- 0.02 m

Elevation (ft.): 940.1 +/- 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: 1/11/08 9:30 AM

Drilling Contractor: Braun Intertec

Completed: 1/11/08 10:20 AM

Drill Rig: CME-750

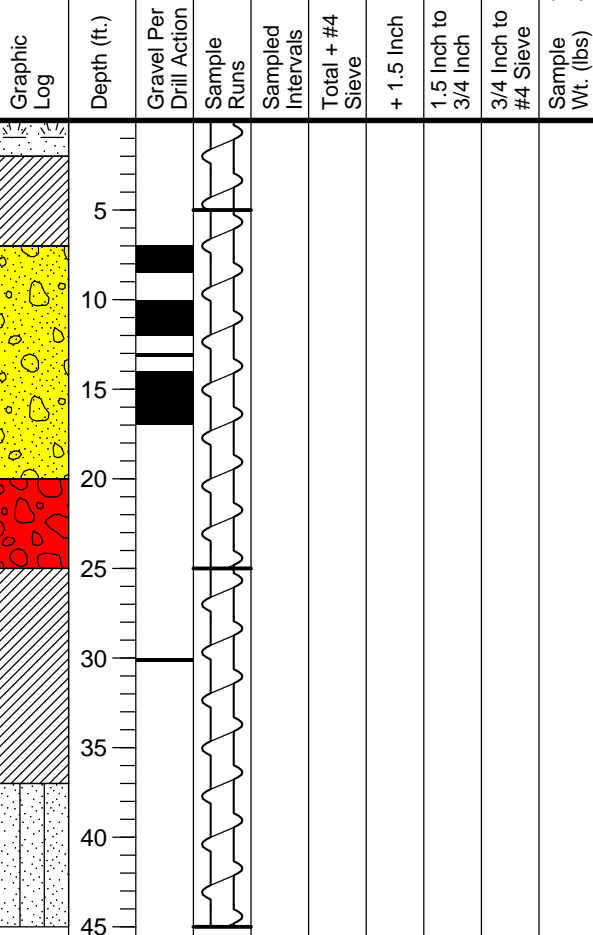
Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

2.0	TOPSOIL. Silty, black.	938.1
7.0	SILT. Brown. Lower contact based on drill action.	933.1
20.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	920.1
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	915.1
37.0	SILT. Brown.	903.1
45.0	SAND. Very fine sand. No gravel.	895.1



Loess
Superior lobe outwash
Lacustrine sediment

T.D.
45 ft.

No samples taken. Estimated less than 10 percent gravel from 7 to 20 feet, estimated 25 percent gravel from 20 to 25 feet and nothing below 25 feet.

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

DRILLING LOG

HOLE NO. W2700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,099.35 mE +/- 0.02 m 4,952,699.49 mN +/- 0.02 m

Elevation (ft.): 943.1 +/- 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: 1/10/08 12:10 PM

Drilling Contractor: Braun Intertec

Completed: 1/10/08 1:05 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)		
1.0	TOPSOIL. Silty, dark brown.									Loess	
3.0	SILT. Brown.										
5.0	SAND. Fine to very coarse sand. Minor gravel to 3/4 inch.					7.3	0.6	1.2	5.6	Superior lobe outwash	9.2 % + #4
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.					5.3	0.0	1.6	3.6		
20.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.					19.7	4.6	3.9	11.2		
25.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.									Lacustrine sediment	
30.0	SAND. Very fine to fine sand. No gravel.										
35.0	SAND. Very fine sand, dirty. No gravel.										
40.0	SILT. Sandy (very fine), brown.										
	T.D. 40 ft.										

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

DRILLING LOG

HOLE NO. W2900

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,098.95 mE +/- 0.02 m 4,952,899.86 mN +/- 0.02 m

Elevation (ft.): 940.2 +/- 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: 1/10/08 1:15 PM

Drilling Contractor: Braun Intertec

Completed: 1/10/08 2:45 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
4.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.				10.4	1.0	3.4	5.9	39.1	Superior lobe outwash	12.8 % + #4	
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				9.4	1.9	1.7	5.9	27.6			
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				13.2	0.0	5.1	8.1	28.4			
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				18.6	3.6	5.8	9.1	28.1			
25.0	SAND. Very fine sand, dirty. No gravel.									Lacustrine sediment		
35.0	SAND. Very fine to fine sand. No gravel.											
40.0	SAND. Fine sand. No gravel.											
45.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.									Superior lobe outwash		
55.0	SAND. Fine to medium sand. Very minor gravel to 3 inches.											
60.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
65.0												
	T.D. 65 ft.											

No samples taken below 25 feet. No gravel from 25 to 45 feet and estimated 10 percent gravel from 45 to 65 feet.

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

DRILLING LOG

HOLE NO. W3100

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,065.39 mE +/- 0.02 m 4,953,108.66 mN +/- 0.02 m

Elevation (ft.): 933.1 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered open area in Beef Research complex.

Drilling Method: 9-inch flight auger

Started: 1/25/08 1:00 PM

Drilling Contractor: Braun Intertec

Completed: 1/25/08 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)		
1.0	TOPSOIL. Silty, black.									Loess	
2.0	SILT. Brown.									Superior lobe outwash	16.8% + #4
5.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.										
10.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				15.8	1.4	5.5	8.8	40.4		
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.										
20.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				18.2	2.1	6.7	9.4	33.7		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.										
45.0	SAND. Very fine sand, slightly dirty in places. No gravel. Silt lenses present in 30 to 35 foot interval.									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. W3300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,101.26 mE +/- 0.02 m 4,953,299.78 mN +/- 0.02 m

Elevation (ft.): 940.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered grassy area between buildings in Beef Research complex.

Drilling Method: 9-inch flight auger

Started: 1/17/08 3:20 PM

Drilling Contractor: Braun Intertec

Completed: 1/17/08 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)	Geologic Interpretation	Economic Classification
TOPSOIL. Silty, black.	4.0									Loess	
936.3											
SAND. Fine sand. No gravel.	5.0									Superior lobe outwash	
935.3											
SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	10.0										
930.3											
SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	15.0										
925.3											
SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	20.0										
920.3											
SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	25.0										
915.3											
SAND. Very fine sand. No gravel.	30.0									Lacustrine sediment	
36.0											
904.3											
SILT. Brown.	40.0										
900.3											
T.D. 40 ft.											
No samples taken. Estimated less than 10 percent gravel from 4 to 25 feet.											

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

DRILLING LOG

HOLE NO. W3500

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,100.62 mE +/- 0.02 m 4,953,499.33 mN +/- 0.02 m

Elevation (ft.): 941.5 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered pasture at natural grade.

Drilling Method: 9-inch flight auger

Started: 1/17/08 10:50 AM

Drilling Contractor: Braun Intertec

Completed: 1/17/08 12:55 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.												
6.0	SILT. Brown. Lower contact based on drill action.									Loess			
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				15.5	2.0	6.1	7.5	30.0	Superior lobe outwash	12.4% + #4		
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				10.9	0.9	2.4	7.6	21.8				
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.				11.4	0.0	3.3	8.2	27.4				
25.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.									Lacustrine sediment			
32.0	SILT. Brown.												
40.0	SAND. Very fine sand, dirty. No gravel.												
45.0	SAND. Very fine to fine sand. No gravel.												
	T.D. 45 ft.												

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

DRILLING LOG

HOLE NO. W3700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,101.29 mE +/- 0.02 m 4,953,700.95 mN +/- 0.02 m

Elevation (ft.): 942.7 +/- 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: 1/17/08 1:10 PM

Drilling Contractor: Braun Intertec

Completed: 1/17/08 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)			
1.5	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.				13.2	1.1	3.8	8.3	34.6	Superior lobe outwash	18.0% + #4	
10.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				19.7	3.0	6.8	9.9	28.9			
15.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				18.3	0.0	7.8	10.5	30.5			
20.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				22.7	4.9	6.8	10.9	25.5			
25.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.									Lacustrine sediment		
30.0	SILT. Sandy (very fine) in upper part of interval, clayey & hard towards bottom of interval.											
42.0												
45.0	SAND. Very fine sand. No gravel.											
	T.D. 45 ft.											

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

DRILLING LOG

HOLE NO. WW1200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,706.84 mE +/- 0.02 m 4,951,225.17 mN +/- 0.02 m

Elevation (ft.): 927.1 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of old field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/27/07 10:40 AM

Drilling Contractor: Braun Intertec

Completed: 11/27/07 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)			
1.5	TOPSOIL. Silty, black.	925.6									Loess	
3.0	SILT. Brown.	924.1										
5.0	SAND. Fine sand. Very minor gravel to 1 inch.	922.1				9.3	1.6	1.8	5.9	38.4	Superior lobe outwash	21.0 % + #4
10.0	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.	917.1				3.6	0.7	0.3	2.6	31.6		
15.0	SAND. Fine to medium sand. Very minor trace gravel to 1-1/2 inches.	912.1				19.9	4.1	5.0	10.8	34.2		
20.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	907.1				31.1	6.2	5.1	19.7	43.3		
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	902.1				22.8	5.6	5.2	12.1	31.6		
30.0	SAND. Fine to medium sand, slightly dirty. Minor gravel to 2 inches.	897.1				27.1	0.0	7.8	19.4	30.5		
35.0	SAND & GRAVEL. Fine to medium sand, slightly dirty. Gravel to 1-1/4 inches.	892.1				31.4	13.4	3.0	14.9	34.6		
40.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 3-1/2 inches.	887.1				30.3	0.0	5.7	24.5	34.6		
45.0	SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1-1/4 inches.	882.1				18.5	1.1	4.9	12.5	19.4		
50.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	877.1				14.7	0.0	1.9	12.8	22.8		
55.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches.	872.1				26.7	0.9	6.8	19.0	28.2		
60.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches.	867.1										
	Interval 47 to 60 feet did not drill like sand and gravel - seemed to drill like sandstone.											
	T.D. 60 ft.											

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

DRILLING LOG

HOLE NO. WW1400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,700.12 mE +/- 0.02 m 4,951,400.38 mN +/- 0.02 m

Elevation (ft.): 926.1 +/- 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: 11/27/07 3:00 PM

Drilling Contractor: Braun Intertec

Completed: 11/27/07 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)	Geologic Interpretation	Economic Classification
1.5	924.6									Loess	
TOPSOIL. Silty, black.											
SILT. Brown. Some gravel to 2 inches present. Lower contact based on drill action.	5									Superior lobe outwash	
12.0	914.1										
SAND. Fine to medium sand. Very minor gravel to 1 inch.	15.0										
SAND. Fine sand. No gravel.	20.0										
SAND. Fine sand. Very minor gravel to 1-1/4 inches.	25.0										
SAND. Very fine to fine sand, dirty. Very minor gravel to 1-3/4 inches.	30.0										
SAND. Very fine sand. Very minor trace gravel to 1-1/4 inches.	35.0										
SAND. Very fine sand. No gravel.	45.0										
T.D. 45 ft.	45										
No samples taken. Estimated less than 5 percent gravel from 12 to 30 feet.											

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

DRILLING LOG

HOLE NO. WW1600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,700.71 mE +/- 0.02 m 4,951,598.55 mN +/- 0.02 m

Elevation (ft.): 925.6 +/- 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: 3/18/08 11:00 AM

Drilling Contractor: Braun Intertec

Completed: 3/18/08 12:20 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)			
5.0	FILL. Silty, sandy, gravelly.										Fill	
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.										Superior lobe outwash	16.5 % + #4
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				8.4	1.7	2.7	4.0	34.4			
20.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				28.5	6.4	6.8	15.3	31.2			
30.0	SAND. Fine to medium sand. Minor gravel to 2 inches.				22.3	11.8	3.1	7.4	24.9			
35.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				25.4	9.5	7.7	8.3	25.7			
40.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.				17.5	2.0	4.5	11.0	24.8			
45.0	SAND. Very fine sand. No gravel.				13.2	1.8	4.5	6.9	24.0			
55.0	SAND. Very fine sand, dirty. No gravel. Silt lenses present.									Lacustrine sediment		
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. WW1800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,699.78 mE +/- 0.02 m 4,951,799.49 mN +/- 0.02 m

Elevation (ft.): 928.9 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 3/18/08 1:00 PM

Drilling Contractor: Braun Intertec

Completed: 3/18/08 2:30 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)			
4.0	FILL. Silty, sandy, gravelly.											
5.0	TOPSOIL. Silty, black.										Loess	
7.0	SILT. Brown. Lower contact based on drill action.											
10.0	SAND. Fine sand. Very minor trace gravel to 1-1/2 inches.											
15.0	SAND. Fine sand. No gravel.											
20.0	SAND. Fine to medium sand. No gravel.					6.1	1.1	2.0	3.0	28.9		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
30.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 8 inches, mostly less than 2-1/2 inches. Large (8") rock not included in sample.					29.1	7.2	4.1	17.7	32.7		
35.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 3 inches.					34.1	5.8	4.4	23.9	28.9		
40.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.										Superior lobe outwash	
45.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.					7.1	0.0	1.2	5.9	22.1		
50.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.					16.5	1.2	3.6	11.6	19.8		
55.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.					20.9	6.3	3.4	11.2	24.0		
60.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.											
65.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
	T.D. 65 ft.											

14.2% + #4

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

DRILLING LOG

HOLE NO. WW2000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,700.04 mE +/- 0.02 m 4,952,000.69 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Edge of snow covered field at natural grade.

Drilling Method: 9-inch flight auger

Started: 3/18/08 2:35 PM

Drilling Contractor: Braun Intertec

Completed: 3/18/08 5:20 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	
3.0	SILT. Brown.											
5.0	SAND. Fine sand. Very minor trace pea gravel.										Superior lobe outwash	21.7% + #4
10.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				12.1	0.5	3.5	8.1	33.1			
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				25.1	2.6	7.0	15.5	27.6			
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				35.0	5.0	9.6	20.4	30.6			
25.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				24.3	2.8	4.0	17.6	27.3			
30.0					20.1	2.8	2.5	14.9	20.0			
35.0					23.6	7.5	4.0	12.1	24.4			
40.0					21.2	2.2	5.5	13.5	30.2			
43.0					24.4	1.8	7.6	15.0	23.6			
45.0	SAND. Fine to medium sand. Minor gravel to 4-1/2 inches.				21.1	14.0	1.5	5.6	17.6			
50.0	SAND. Fine to medium sand. Minor gravel to 2 inches.				18.0	5.1	5.7	7.1	16.6			
55.0	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.				20.6	6.4	6.9	7.4	22.2			
65.0					18.6	3.9	5.3	9.4	21.2			
T.D. 65 ft.												

Broke augers 8' underground at 43 feet. Successfully retrieved all augers. Field photographs incorrectly labeled WW1800.

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

DRILLING LOG

HOLE NO. WW2200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,701.22 mE +/- 0.02 m 4,952,201.20 mN +/- 0.02 m

Elevation (ft.): 929.7 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of field at natural grade.

Drilling Method: 9-inch flight auger

Started: 3/19/08 7:25 AM

Drilling Contractor: Braun Intertec

Completed: 3/19/08 8:45 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0	TOPSOIL. Silty, black.	928.7									Loess	
2.0	SILT. Brown.	927.7									Superior lobe outwash	18.0 % + #4
5.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	924.7										
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	919.7			9.3	0.7	4.1	4.5	32.5			
15.0	SAND. Fine to medium sand. Very minor gravel to 1/2 inch.	914.7										
20.0	SAND. Fine to medium sand. Minor gravel to 1-1/4 inches.	909.7			16.3	9.2	3.2	3.9	35.0			
25.0	SAND. Fine to medium sand. Minor gravel to 4 inches.	904.7										
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				35.9	0.8	7.1	28.0	31.6			
35.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3-1/2 inches.	894.7			33.4	1.4	5.9	26.1	42.9			
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3-1/2 inches.	889.7			35.3	7.3	7.6	20.4	34.1			
45.0	SAND. Fine sand. Very minor gravel to 1-3/4 inches.	884.7			12.7	3.6	2.2	6.9	21.0			
50.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
55.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	874.7			9.9	0.0	2.5	7.4	21.0			
60.0	SAND. Fine to coarse sand. Minor gravel to 1 inch. Very rocky (drill action) from 60 to 61 feet. Refusal in coarse gravel at 61 feet.	868.7			15.7	0.0	3.5	12.2	24.8			
	T.D. 61 ft.											

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

DRILLING LOG

HOLE NO. WW2600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,699.15 mE +/- 0.02 m 4,952,599.08 mN +/- 0.02 m

Elevation (ft.): 929.6 +/- 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: 3/19/08 2:30 PM

Drilling Contractor: Braun Intertec

Completed: 3/19/08 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
	5									Fill	
	10.0										
	15.0										
	20.0				10.3	1.8	3.3	5.2	26.0		
	25.0										
	30.0				19.1	3.4	5.2	10.5	31.0		
	35.0				17.0	5.3	2.4	9.4	25.0		
	40.0				17.5	5.8	2.2	9.4	31.7	Superior lobe outwash	17.1 % + #4
	45.0				18.0	2.7	5.3	10.1	26.4		
	50.0				28.6	0.0	4.2	24.4	26.5		
	55.0				21.1	0.0	3.2	17.9	21.9		
	60.0				17.0	0.8	2.3	13.9	21.8		
	65.0				18.5	0.0	4.2	14.3	21.3		
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. WW3000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 495,700.40 mE +/- 0.02 m 4,953,000.49 mN +/- 0.02 m
 Elevation (ft.): 918.3 +/- 0.1 ft.
 Ground Water Depth (ft.): 62.0
 Ground Water Elevation (ft.): 856.3
 Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 2/11/08 2:30 PM
 Drilling Contractor: Braun Intertec Completed: 2/11/08 3:55 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)				
3.0	TOPSOIL. Silty, black.												
8.0	SILT. Sandy towards bottom of interval, brown. Lower contact based on drill action.											Loess	
10.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.					17.3	0.0	7.6	9.7	14.4		Superior lobe outwash	29.4 % + #4
15.0	GRAVEL & SAND. Fine to coarse sand. Gravel to 3 inches.					41.5	11.6	8.9	20.9	38.0			
20.0	GRAVEL & SAND. Fine to coarse sand, slightly dirty. Gravel to 3 inches.					47.1	10.4	11.8	24.8	38.8			
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.					30.6	0.0	6.0	24.5	22.9			
30.0	SAND. Fine to very coarse sand. Minor gravel to 1-3/4 inches.					19.5	3.8	5.2	10.5	28.8			
35.0	SAND. Fine to very coarse sand. Minor gravel to 2 inches.					16.3	1.3	3.7	11.3	33.7			
40.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.					26.3	9.0	6.3	11.1	33.6			
45.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.												
65.0	SAND. Fine sand. No gravel.												
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. WW3100

Page 1 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,691.42 mE +/- 0.02 m 4,953,082.27 mN +/- 0.02 m

Elevation (ft.): 915.6 +/- 0.1 ft.

Ground Water Depth (ft.): 57.0

Ground Water Elevation (ft.): 858.6

Site: Snow covered corn stubble field adjacent to old field road at natural grade.

Drilling Method: 4x6 Rotasonic

Started: 3/5/08 11:15 AM

Drilling Contractor: Traut Wells

Completed: 3/5/08 2:10 PM

Drill Rig: Versasonic

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation

Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.5 TOPSOIL. Silty, black.	913.1									Loess	
4.0 SILT. Brown.	911.6										
6.0 SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2-1/2 inches.	909.6				19.1	3.8	3.8	11.5	48.8	Superior lobe outwash	22.8 % + #4
SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
17.0	898.6				21.0	8.0	2.5	10.5	42.6		
20.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.	895.6										
SAND. Fine to coarse sand. Minor gravel to 2 inches.					19.4	0.7	5.8	12.9	34.0		
30.0	885.6										
38.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.	877.6				32.1	10.4	5.2	16.5	32.6		
SAND. Fine to medium sand. Very minor gravel to 1 inch.											
57.0	858.6									Lacustrine sediment	
SAND. Very fine sand, dirty, reddish brown. Silt & clay lenses approximately 1 foot thick present.											

Continued Next Page

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

DRILLING LOG

HOLE NO. WW3100

Page 2 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 495,691.42 mE +/- 0.02 m 4,953,082.27 mN +/- 0.02 m
 Elevation (ft.): 915.6 +/- 0.1 ft.
 Ground Water Depth (ft.): 57.0
 Ground Water Elevation (ft.): 858.6
 Site: Snow covered corn stubble field adjacent to old field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/5/08 11:15 AM
 Drilling Contractor: Traut Wells Completed: 3/5/08 2:10 PM
 Drill Rig: Versasonic Logged By: J.D. Lehr

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

80.0

835.6

80.0 - 835.6	80										
T.D. 80 ft.											

DRILLING LOG

HOLE NO. WW3200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

495,700.63 mE +/- 0.02 m 4,953,199.33 mN +/- 0.02 m

Elevation (ft.): 918.2 +/- 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: 2/12/08 11:10 AM

Drilling Contractor: Braun Intertec

Completed: 2/12/08 12:00 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
FILL. Sandy, silty, gravelly.	915.2									Fill	
SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	913.2									Superior lobe outwash	20.1 % + #4
SAND. Fine to very coarse sand. Minor gravel to 1 inch.	908.2				16.7	0.6	2.1	14.0	42.5		
SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.					17.1	0.7	1.2	15.2	24.5		
					22.6	2.0	2.2	18.5	19.0		
					26.0	4.3	4.8	16.9	28.6		
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	893.2										
SAND. Fine to medium sand, slightly dirty. Minor gravel to 1-1/2 inches.	888.2				19.3	0.0	6.4	12.9	26.8		
SAND. Very fine sand. No gravel.	883.2										
SAND. Very fine to fine sand, slightly dirty. Very minor gravel to 2-1/2 inches.	878.2										
SAND. Fine sand. Minor gravel to 3 inches.	873.2										
	T.D. 45 ft.										

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

DRILLING LOG

HOLE NO. WW3400

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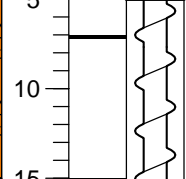

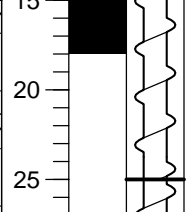

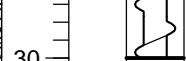
Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 495,691.74 mE +/- 0.02 m 4,953,381.14 mN +/- 0.02 m
 Elevation (ft.): 917.4 +/- 0.1 ft.
 Ground Water Depth (ft.): Ground water not encountered
 Ground Water Elevation (ft.):
 Site: Snow covered field immediately south of old Patrol Road, surface likely disturbed..

Drilling Method: 9-inch flight auger Started: 2/12/08 1:00 PM
 Drilling Contractor: Braun Intertec Completed: 2/12/08 1:30 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

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

5.0	912.4	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.									
15.0	902.4	SAND. Fine to coarse sand, slightly iron stained from 10 to 15 feet. Minor gravel to 2-1/2 inches.									Superior lobe outwash
27.0	890.4	SAND. Fine to medium sand, slightly iron stained. Very minor trace gravel to 1-1/2 inches. Lower contact based on drill action.									Older outwash
30.0	887.4	TILL. Clayey, yellowish brown.									Till

T.D.
30 ft.

Surface must be disturbed - no overburden. No samples taken. Estimated 20 percent gravel from 5 to 15 feet - too thin.

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