

DRILLING LOG

HOLE NO. I0000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,698.81 mE +/- 0.02 m 4,950,000.43 mN +/- 0.02 m

Elevation (ft.): 947.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/25/07 4:40 PM

Drilling Contractor: WDC

Completed: 9/25/07 5:15 PM

Drill Rig: CME-85

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.5											
7.0										Loess	
10.0										Superior lobe outwash	
15.0											
20.0										Till	

T.D. 20 ft.
No samples taken. Estimated less than 10 percent gravel from 7 to 15 feet.

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

DRILLING LOG

HOLE NO. I0200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,700.65 mE +/- 0.02 m 4,950,201.30 mN +/- 0.02 m
 Elevation (ft.): 947.4 +/- 0.1 ft.
 Ground Water Depth (ft.): 44.0
 Ground Water Elevation (ft.): 903.4
 Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger Started: 9/25/07 3:40 PM
 Drilling Contractor: WDC Completed: 9/25/07 4:30 PM
 Drill Rig: CME-85 Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.5	TOPSOIL. Silty, black.											
6.0	SILT. Brown. Lower contact based on drill action.									Loess		
10.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.				14.5	0.0	2.1	12.4	22.5	Superior lobe outwash	13.6% + #4	
15.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.				12.8	0.0	1.9	10.9	22.2			
20.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.											
25.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.											
30.0	SAND. Fine to medium sand. No gravel.											
35.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.											
40.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.											
44.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
45.0	TILL. Sandy, reddish brown.									Till		
	T.D. 45 ft.											

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

DRILLING LOG

HOLE NO. I0400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.55 mE +/- 0.02 m 4,950,400.33 mN +/- 0.02 m

Elevation (ft.): 947.2 +/- 0.1 ft.

Ground Water Depth (ft.): 63.0

Ground Water Elevation (ft.): 884.2

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/25/07 2:10 PM

Drilling Contractor: WDC

Completed: 9/25/07 3:30 PM

Drill Rig: CME-85

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation

Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
TOPSOIL. Silty, black.	3.0	944.2								Loess	
5.0 SILT. Brown.	5.0	942.2									
SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.	10.0	937.2			25.6	1.1	4.9	19.6	29.8	Superior lobe outwash	19.3 % + #4
SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches. Mostly pea gravel.	15.0	932.2			32.4	0.0	6.9	25.5	21.4		
SAND. Fine to medium sand. Very minor gravel to 1 inch.	20.0	927.2			11.3	0.0	3.3	8.0	20.0		
SAND. Fine sand. Very minor gravel to 1 inch.	25.0	922.2			7.5	0.0	2.7	4.8	21.8		
SAND. Fine sand. Very minor trace gravel to 3/4 inch.	30.0	917.2			2.4	0.0	0.3	2.1	17.9		
SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	35.0	912.2			24.2	1.6	6.0	16.5	25.7		
SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	40.0				27.3	0.5	4.6	22.1	32.7		
45.0	902.2				25.8	0.0	5.8	20.0	24.8		
SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	50.0	897.2			17.1	1.0	2.8	13.3	22.8		
SAND. Fine sand. No gravel.	55.0	892.2								Lacustrine sediment	
SAND. Fine to medium sand. No gravel.	60.0	887.2									
SAND. Very fine to fine sand. No gravel.	65.0	882.2									
T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I0600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,698.85 mE +/- 0.02 m 4,950,602.52 mN +/- 0.02 m
 Elevation (ft.): 947.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 63.0
 Ground Water Elevation (ft.): 884.2
 Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger Started: 9/25/07 12:45 PM
 Drilling Contractor: WDC Completed: 9/25/07 2:00 PM
 Drill Rig: CME-85 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.0 TOPSOIL. Silty, black.	945.2										Loess	
4.5 SILT. Brown.	942.7											
5.0 SAND. Fine to coarse sand, slightly dirty. Minor gravel to 3/4 inch, mostly pea gravel.	942.2				17.5	1.5	2.8	13.2	23.4	Superior lobe outwash	22.5% + #4	
10.0 SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches. Higher percentage gravel indicated by drill action.	937.2				12.2	4.7	1.7	5.9	22.5			
15.0 SAND. Fine sand. Very minor gravel to 2 inches.	932.2				25.5	11.4	5.4	8.7	26.1			
SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.					30.2	6.9	9.5	13.8	29.7			
					25.9	12.2	3.6	10.1	26.4			
30.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	917.2				25.4	7.6	4.7	13.2	29.6			
40.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	907.2				31.6	8.6	8.8	14.2	32.0			
45.0 SAND. Very fine to fine sand. No gravel.	902.2				12.4	0.0	3.4	9.0	18.3			
55.0 SAND. Fine sand. No gravel.	892.2											
60.0 SAND. Fine to medium sand. No gravel.	887.2											
65.0 T.D. 65 ft.	882.2											

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

DRILLING LOG

HOLE NO. I0800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,701.61 mE +/- 0.02 m 4,950,764.29 mN +/- 0.02 m

Elevation (ft.): 946.4 +/- 0.1 ft.

Ground Water Depth (ft.): 60.5

Ground Water Elevation (ft.): 885.9

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/25/07 10:20 AM

Drilling Contractor: WDC

Completed: 9/25/07 11:45 AM

Drill Rig: CME-85

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation

Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
TOPSOIL. Silty, black.	3.5	942.9								Loess	
5.0 SILT. Brown.	5.0	941.4									
SAND. Fine to coarse sand. Very minor gravel to 2-1/2 inches.	10.0	936.4			13.3	3.5	1.2	8.6	21.5	Superior lobe outwash	14.1 % + #4
SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	15.0	931.4			16.4	6.4	1.4	8.7	19.8		
SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.	20.0	926.4			10.2	0.9	3.3	6.0	26.7		
SAND. Fine sand. Very minor trace gravel to 3/4 inch.	25.0	921.4			2.1	0.0	0.2	1.9	22.6		
SAND. Fine sand. Very minor gravel to 1 inch.	30.0	916.4			7.9	0.0	0.9	7.0	20.9		
SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	35.0	911.4			22.8	8.1	5.6	9.1	27.1		
SAND. Fine to medium sand. Very minor gravel to 1 inch.	40.0	906.4			6.5	0.0	1.2	5.3	15.3		
SAND. Fine to medium sand. Minor gravel to 3-1/2 inches.	45.0	901.4			19.4	11.6	2.8	4.9	23.4		
SAND & GRAVEL. Fine to medium sand. Gravel to 4-1/2 inches.	50.0	896.4			27.9	17.6	2.4	7.9	21.0		
SAND. Fine sand. No gravel.	55.0	891.4									
SAND. Fine to medium sand. No gravel.	65.0	881.4									
T.D. 65 ft.											

Larger gravel from 40 to 50 based on drill action. Included in samples per driller.

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

DRILLING LOG

HOLE NO. I1000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,700.05 mE +/- 0.02 m 4,950,975.73 mN +/- 0.02 m

Elevation (ft.): 938.5 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/26/07 4:30 PM

Drilling Contractor: WDC

Completed: 9/26/07 5:20 PM

Drill Rig: CME-85

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
TOPSOIL. Silty, black.	3.5									Loess	
5.0 SILT. Brown.	935.0										
SAND. Fine to medium sand, slightly dirty. Very minor trace gravel to 1/2 inch.	933.5										
10.0 SAND. Fine sand. Very minor trace gravel to 1/2 inch.	928.5				4.0	0.0	0.0	4.0	19.2		
SAND. Fine sand. Very minor trace gravel to 1/2 inch.					3.9	0.0	0.4	3.6	21.4		
20.0	918.5				2.3	0.0	0.0	2.3	17.5		
SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-3/4 inches.					31.3	3.3	5.3	22.7	30.8		
30.0	908.5				29.8	4.9	6.2	18.7	27.1	Superior lobe outwash	
SAND. Fine sand. No gravel. Six-inch-thick silt lens at approximately 43 feet.											
50.0	888.5										
T.D. 50 ft.											

14.3 % + #4

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

DRILLING LOG

HOLE NO. I1200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,700.92 mE +/- 0.02 m 4,951,168.51 mN +/- 0.02 m

Elevation (ft.): 947.5 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/27/07 8:35 AM

Drilling Contractor: WDC

Completed: 9/27/07 10:00 AM

Drill Rig: CME-85

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.5	TOPSOIL. Silty, black.	945.0									Loess	
4.5	SILT. Brown.	943.0										
10.0	SAND. Fine to medium sand. Minor gravel to 1-1/4 inches.	937.5				17.2	0.0	4.2	13.1	23.1	Superior lobe outwash	18.7% + #4
15.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.	932.5				10.6	1.2	2.7	6.7	22.7		
20.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	927.5				6.7	0.0	0.8	5.9	21.4		
25.0	SAND. Fine to medium sand. Minor gravel to 3-1/2 inches.	922.5				18.3	6.6	5.0	6.7	26.2		
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	917.5				33.1	4.8	6.9	21.4	28.0		
35.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	912.5				23.0	1.1	2.1	19.8	17.3		
40.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.	907.5				20.7	0.0	3.0	17.6	18.0		
45.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	902.5				19.4	2.0	3.0	14.3	19.4		
50.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	897.5										
65.0	SAND. Fine to medium sand. Very minor trace gravel to 1-1/4 inches.	882.5										
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I1400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,775.08 mE +/- 0.02 m 4,951,401.50 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Edge of field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 9/27/07 10:30 AM

Drilling Contractor: WDC

Completed: 9/27/07 11:30 AM

Drill Rig: CME-85

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
2.0	TOPSOIL. Silty, black.	949.8									Loess		
4.5	SILT. Brown.	947.3											
5.0	SAND & GRAVEL. Fine to medium sand, slightly dirty. Gravel to 1 inch.	946.8				22.3	5.4	3.4	13.5	33.1	Superior lobe outwash	19.3 % + #4	
10.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.	941.8				11.7	1.5	2.2	8.0	27.6			
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	936.8				26.2	0.0	7.1	19.2	24.2			
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.	931.8				22.2	6.3	3.5	12.4	26.2			
30.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.	921.8				25.0	8.2	3.8	13.0	20.7			
35.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.	916.8				11.2	2.1	3.3	5.7	22.6			
40.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.	911.8				22.2	6.5	7.8	7.9	28.4			
45.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.	906.8				12.0	1.4	2.6	8.0	19.3			
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch.	901.8				26.3	5.2	4.7	16.5	27.6			
55.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.	891.8				20.8	2.7	3.7	14.4	22.3			
60.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	886.8				17.7	0.0	3.3	14.4	21.2			
65.0	T.D. 65 ft.					13.4	0.0	2.4	11.0	17.0			

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

DRILLING LOG

HOLE NO. I1600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.72 mE +/- 0.02 m 4,951,599.30 mN +/- 0.02 m

Elevation (ft.): 950.8 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/13/07 7:35 AM

Drilling Contractor: Braun Intertec

Completed: 12/13/07 9:00 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.5	TOPSOIL. Silty, black.											Loess	
4.0	SILT. Brown.												
5.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					14.4	0.8	1.8	11.8	33.0	Superior lobe outwash	18.4% + #4	
10.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.					5.8	1.1	1.0	3.8	26.8			
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.					7.0	0.0	1.6	5.4	25.6			
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.					25.7	4.3	6.9	14.6	28.3			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.					23.4	1.1	5.8	16.5	34.9			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					15.3	5.3	3.8	6.1	25.2			
35.0	SAND. Fine to medium sand. Minor gravel to 3 inches.					10.9	3.7	1.6	5.6	25.7			
40.0	SAND. Fine to medium sand. Very minor gravel to 3 inches.					20.7	4.4	6.9	9.3	27.0			
45.0	SAND. Fine to coarse sand. Minor gravel to 2-3/4 inches.					31.9	0.5	5.9	25.5	34.7			
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.					33.2	4.6	6.5	22.2	33.0			
55.0	SAND. Fine to medium sand. Very minor gravel to 3 inches.					22.1	0.8	4.5	16.8	29.0			
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.					11.1	0.0	1.4	9.8	21.7			
65.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.												
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. I1800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.76 mE +/- 0.02 m 4,951,799.14 mN +/- 0.02 m

Elevation (ft.): 949.7 +/- 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: 12/13/07 9:05 AM

Drilling Contractor: Braun Intertec

Completed: 12/13/07 10:30 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.											
4.5	SILT. Brown.									Loess		
5.0	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 1/2 inch.									Superior lobe outwash	16.0 % + #4	
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				3.6	0.0	1.3	2.4	27.6			
15.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch.											
20.0	SAND. Fine sand. No gravel.											
25.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.				4.0	0.0	0.2	3.8	27.3			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				19.6	0.9	3.6	15.1	27.5			
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches, mostly less than 1 inch.				30.5	3.2	4.8	22.5	28.0			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				30.5	0.6	4.0	25.9	39.1			
45.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				24.7	0.0	6.1	18.6	34.0			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				24.0	4.1	4.5	15.4	30.8			
55.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				15.9	0.0	2.9	13.0	23.4			
60.0	SAND. Fine sand. Very minor gravel to 1 inch.											
65.0	SAND. Fine sand. No gravel.											
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I2000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,700.80 mE +/- 0.02 m 4,951,999.88 mN +/- 0.02 m

Elevation (ft.): 951.5 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/13/07 10:40 AM

Drilling Contractor: Braun Intertec

Completed: 12/13/07 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)			
1.5	TOPSOIL. Silty, black.										Loess	
4.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.										Superior lobe outwash	13.9% + #4
	SAND. Fine sand: Very minor gravel to 1 inch.				5.3	2.2	0.6	2.5	29.4			
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.											
20.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				8.7	1.3	1.4	6.0	31.5			
30.0	SAND. Fine to medium sand. No gravel.				3.5	0.0	0.3	3.2	24.9			
35.0	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.				10.6	5.1	1.4	4.0	25.4			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				28.1	2.9	9.6	15.6	35.6			
45.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				22.3	2.5	6.9	12.9	28.4			
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-3/4 inches.				26.1	1.5	4.4	20.1	26.3			
55.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				20.9	0.0	5.6	15.3	23.5			
65.0					24.9	1.2	6.1	17.6	29.2			
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I2100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.45 mE +/- 0.02 m 4,952,098.93 mN +/- 0.02 m

Elevation (ft.): 951.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered grassy field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 2/27/08 3:50 PM

Drilling Contractor: Braun Intertec

Completed: 2/27/08 5:05 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.0 TOPSOIL. Silty, black.	949.3									Loess	
3.5 SILT. Brown.	947.8										
5.0 SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/2 inches.	946.3									Superior lobe outwash	15.5 % + #4
SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					21.9	5.5	6.4	10.1	38.8		
15.0 SAND. Fine to medium sand. Very minor gravel to 3 inches.	936.3										
20.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	931.3				15.3	5.5	3.0	6.9	31.6		
25.0 SAND. Fine to medium sand. Very minor gravel to 1 inch.	926.3										
30.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	921.3				8.0	0.9	0.7	6.3	30.6		
35.0 SAND. Fine to coarse sand. Very minor gravel to 2 inches.	916.3										
40.0 SAND. Fine to coarse sand. Very minor trace gravel to 1/2 inch.	911.3				8.6	2.2	1.2	5.2	31.7		
45.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	906.3										
50.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 4-1/2 inches.	901.3				14.1	0.6	3.5	10.0	35.4		
55.0 SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches. Very rocky (drill action) from 58 to 59 feet. Refusal in coarse gravel at 59 feet.	896.3				26.1	14.9	2.4	8.9	22.8		
	892.3				21.8	2.8	5.6	13.4	35.8		
T.D. 59 ft.											

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

DRILLING LOG

HOLE NO. I2200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,700.18 mE +/- 0.02 m 4,952,199.46 mN +/- 0.02 m

Elevation (ft.): 947.5 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/13/07 12:50 PM

Drilling Contractor: Braun Intertec

Completed: 12/13/07 2:15 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation

Economic Classification

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
1.5	TOPSOIL. Silty, black.									Loess	
4.5	SILT. Sandy from 4 to 4.5 feet, brown.										
5.0	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 1-1/4 inches.				12.3	1.3	3.8	7.2	29.9	Superior lobe outwash	20.4 % + #4
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				26.9	9.6	6.6	10.7	29.7		
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				23.5	3.8	8.1	11.7	31.0		
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.										
25.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.										
30.0	SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.										
35.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.										
40.0	SAND. Fine to coarse sand. Very minor gravel to 2 inches.										
45.0	SAND. Fine sand. Very minor trace gravel to 2 inches.										
50.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.										
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.										
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.										
65.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.										

No samples taken below 20 feet. Estimated less than 5 percent gravel from 20 to 45 feet. Only about 15 percent gravel from 45 to 65 feet.

T.D.
65 ft.

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

DRILLING LOG

HOLE NO. I2400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,698.61 mE +/- 0.02 m 4,952,399.81 mN +/- 0.02 m

Elevation (ft.): 948.9 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/13/07 2:25 PM

Drilling Contractor: Braun Intertec

Completed: 12/13/07 3:50 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.0	TOPSOIL. Silty, black.											
6.0	SILT. Brown. Lower contact based on drill action.									Loess		
10.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				14.3	0.0	2.4	11.9	33.9	Superior lobe outwash	19.7 % + #4	
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				27.5	5.4	5.9	16.3	36.6			
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				12.8	1.5	2.7	8.5	24.0			
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				7.6	0.0	1.6	6.0	22.6			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				17.7	2.2	2.6	12.8	28.3			
35.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.				6.1	1.2	1.3	3.6	23.4			
40.0	SAND. Fine sand. No gravel.											
45.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				14.2	4.2	2.9	7.1	25.4			
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				29.0	2.1	8.4	18.5	29.8			
55.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				36.3	1.7	7.6	26.9	24.3			
60.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				32.8	6.9	6.3	19.6	29.0			
65.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.				30.6	2.6	6.2	21.7	38.8			
T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. I2600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.91 mE +/- 0.02 m 4,952,601.16 mN +/- 0.02 m

Elevation (ft.): 950.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/14/07 7:40 AM

Drilling Contractor: Braun Intertec

Completed: 12/14/07 9:10 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.											
2.0	SILT. Brown.									Loess		
5.5	SAND. Fine sand, dirty. No gravel. Lower contact based on drill action.											
10.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.					23.1	3.7	4.2	15.2	33.6		
15.0	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.					21.0	8.7	4.2	8.1	37.8		
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.					5.8	0.0	2.3	3.5	29.6		
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.					11.6	0.0	3.2	8.4	29.0		
40.0	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.											
45.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.											
55.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.											
60.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.											
65.0	T.D. 65 ft.											
<p>Estimated less than 10 percent gravel from 25 to 65 feet.</p>												

15.1 % + #4

Superior lobe outwash

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

DRILLING LOG

HOLE NO. I2800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.41 mE +/- 0.02 m 4,952,800.52 mN +/- 0.02 m

Elevation (ft.): 949.7 +/- 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: 12/14/07 9:15 AM

Drilling Contractor: Braun Intertec

Completed: 12/14/07 10:40 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.										
6.0	SILT. Brown. Lower contact based on drill action.									Loess	
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				22.6	0.0	4.9	17.8	29.8	Superior lobe outwash	18.2% + #4
15.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				21.0	2.1	5.8	13.1	30.0		
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				12.0	1.9	3.4	6.7	25.1		
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.									Superior lobe outwash	
30.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.										
35.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										
45.0	SAND. Very fine to fine sand. No gravel.										
50.0	NO RECOVERY. Samples displaced while drilling till below. Similar to above based on drill action.									Till	
57.0	SAND. Fine to medium sand. Very minor gravel to 1 inch. Till balls present.										
65.0	TILL. Clayey, gray.										
	T.D. 65 ft.										

Estimated less than 5 percent gravel from 20 to 57 feet.

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

DRILLING LOG

HOLE NO. I3000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.12 mE +/- 0.02 m 4,953,000.50 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/14/07 10:45 AM

Drilling Contractor: Braun Intertec

Completed: 12/14/07 12:15 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.5	TOPSOIL. Silty, black.									Loess	
4.0	SILT. Brown.										
5.0	SAND. Very fine to fine sand, dirty. Very minor trace gravel to 1 inch.									Superior lobe outwash	20.6 % + #4
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				11.1	0.7	3.9	6.5	29.3		
15.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.										
20.0	SAND. Fine sand. No gravel.				2.9	0.0	0.9	2.0	30.4		
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				28.3	2.0	5.3	21.0	31.3		
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				31.7	1.1	5.9	24.7	34.3		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/4 inches.				31.5	7.2	4.5	19.8	32.1		
45.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.				24.2	0.0	4.5	19.7	25.8		
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				29.5	2.1	7.3	20.1	30.7		
55.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				24.5	1.9	7.2	15.4	32.9		
60.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				21.0	1.6	3.5	15.8	26.0		
65.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.				28.7	5.3	5.0	18.4	20.3		
T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I3200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.22 mE +/- 0.02 m 4,953,200.43 mN +/- 0.02 m

Elevation (ft.): 952.7 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/14/07 12:55 PM

Drilling Contractor: Braun Intertec

Completed: 12/14/07 2:30 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.	951.2									Loess	
3.0	SILT. Brown.	949.7										
5.0	SAND. Fine to medium sand. Minor gravel to 2 inches.	947.7										
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	942.7				12.1	1.9	4.1	6.1	39.8		
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	937.7				7.3	1.0	1.8	4.6	23.3		
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.	932.7				6.4	0.8	1.9	3.7	26.9		
25.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.	927.7				17.5	2.7	3.1	11.7	27.5		
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	922.7				29.7	7.9	4.7	17.2	35.0		
35.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	917.7				23.0	3.9	4.6	14.4	34.3		
40.0	SAND & GRAVEL. Fine to medium sand. Gravel to 4-1/2 inches.	912.7				29.7	14.5	4.3	11.0	29.1	Superior lobe outwash	18.2 % + #4
45.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	907.7				12.9	2.3	3.3	7.2	24.5		
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.	902.7				21.5	0.0	5.5	16.0	24.8		
55.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch.	897.7				19.2	0.7	4.1	14.3	22.7		
60.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch.	892.7				23.8	0.0	1.1	22.7	22.4		
65.0	SAND. Fine to coarse sand. Minor gravel to 3/4 inch.	887.7				17.2	0.0	0.8	16.4	23.4		
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I3400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.75 mE +/- 0.02 m 4,953,398.99 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/17/07 9:55 AM

Drilling Contractor: Braun Intertec

Completed: 12/17/07 11:10 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	TOPSOIL. Silty, black.	949.4									Loess	
5.0	SILT. Sandy & with very minor gravel to 1 inch towards bottom of interval, brown.	946.4										
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	941.4									Superior lobe outwash	16.9 % + #4
	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.				6.6	0.0	0.9	5.7	28.6			
20.0	SAND. Fine to medium sand. No gravel.	931.4			4.7	0.0	0.6	4.1	28.4			
25.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	926.4										
30.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	921.4			8.0	0.0	1.8	6.2	29.9			
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	916.4			26.8	7.1	6.8	12.8	29.4			
	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				24.7	3.4	5.1	16.2	29.4			
					23.6	7.2	2.5	13.9	18.5			
50.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.	901.4			23.5	8.3	6.7	8.4	30.3			
					25.8	7.6	5.0	13.2	30.2			
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	891.4			31.4	12.9	6.0	12.4	40.7			
65.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	886.4			16.8	0.6	5.0	11.2	28.3			
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I3600

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,699.60 mE +/- 0.02 m 4,953,599.00 mN +/- 0.02 m

Elevation (ft.): 955.4 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger

Started: 12/17/07 12:00 PM

Drilling Contractor: Braun Intertec

Completed: 12/17/07 1:20 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)		
1.0	TOPSOIL. Silty, black.									Loess	
3.5	SILT. Brown.										
4.0	SAND. Very fine to fine sand. No gravel.									Superior lobe outwash	16.1 % + #4
5.0	SAND. Fine sand: Very minor trace gravel to 3/4 inch.				3.8	0.0	0.4	3.4	31.5		
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										
15.0	SAND. Fine to medium sand. No gravel.										
20.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				5.9	0.0	1.5	4.4	31.3		
25.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.										
30.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				20.2	5.4	5.8	9.0	30.9		
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4-1/2 inches.				20.3	2.7	6.0	11.6	35.8		
40.0	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.				37.5	18.1	7.6	11.8	40.0		
45.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				24.4	5.4	5.0	14.0	28.3		
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				23.7	4.4	3.7	15.6	32.7		
55.0	SAND. Fine sand. No gravel.				17.7	2.2	4.6	10.9	33.8		
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. I3800

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,699.69 mE +/- 0.02 m 4,953,800.26 mN +/- 0.02 m
 Elevation (ft.): 952.2 +/- 0.1 ft.
 Ground Water Depth (ft.): Ground water not encountered
 Ground Water Elevation (ft.):
 Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger Started: 12/17/07 1:40 PM
 Drilling Contractor: Braun Intertec Completed: 12/17/07 3:05 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

DRILLING & SAMPLING				TEST RESULTS (%)					Geologic Interpretation	Economic Classification		
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve			Sample Wt. (lbs)	
0.5	951.7									Loess	19.4% + #4	
TOPSOIL. Sandy, silty, brown.												
5.0	947.2				8.2	0.9	1.7	5.6	29.7	Superior lobe outwash		
SAND. Fine sand. No gravel.												
10.0	942.2				6.9	0.0	2.2	4.7	28.7			
SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.												
15.0					5.9	0.0	1.7	4.1	26.4			
SAND. Fine to medium sand. Very minor gravel to 1 inch.												
20.0	932.2				23.7	14.0	2.9	6.9	29.6			
SAND. Fine to coarse sand. Minor gravel to 4 inches.												
25.0	927.2				38.0	9.0	6.9	22.1	42.7			
SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.												
30.0	922.2				24.6	2.2	6.1	16.3	39.1			
SAND. Fine to coarse sand. Minor gravel to 2 inches.												
35.0	917.2				28.8	6.8	7.0	15.0	34.4			
SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.												
40.0					26.7	5.1	8.0	13.6	25.2			
SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.												
45.0	907.2				18.0	3.2	3.5	11.3	19.5			
SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.												
50.0					21.0	1.4	6.3	13.4	18.7			
SAND. Fine to coarse sand. Minor gravel to 2-1/4 inches.												
55.0	897.2				19.8	6.0	2.6	11.1	27.1			
SAND. Fine to coarse sand. Minor gravel to 2-1/4 inches.												
60.0					21.4	5.4	4.2	11.8	26.0			
SAND. Fine to coarse sand. Minor gravel to 2-1/4 inches.												
65.0	887.2											
T.D. 65 ft.												
Poor quality samples from 45 to 65 feet. Large rocks from above knocked off much of the sample resulting in small sample volume.												

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

DRILLING LOG

HOLE NO. II0100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 494,283.57 mE +/- 0.02 m 4,950,099.53 mN +/- 0.02 m
 Elevation (ft.): 934.3 +/- 0.1 ft.
 Ground Water Depth (ft.): 60.0
 Ground Water Elevation (ft.): 874.3
 Site: Edge of soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/9/07 11:00 AM
 Drilling Contractor: Braun Intertec Completed: 11/9/07 12:35 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification	
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Very fine to fine sand. Very minor trace pea gravel.					12.3	3.8	1.0	7.5	30.8	Superior lobe outwash	14.1 % + #4
10.0	SAND. Fine to medium sand. Very minor gravel to 3 inches, mostly less than 1 inch.					6.6	0.0	2.2	4.3	26.3		
15.0	SAND. Fine sand. Very minor gravel to 1-1/4 inches.					4.6	0.0	2.0	2.6	21.5		
20.0	SAND. Fine sand. Very minor trace gravel to 1-1/4 inches.					8.7	0.0	2.5	6.3	21.8		
25.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.					33.5	0.0	3.1	30.5	34.9		
30.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/4 inches.					19.5	2.1	3.9	13.5	27.8		
35.0	SAND. Fine sand. Minor gravel to 2-1/2 inches.					14.1	2.9	3.3	7.8	27.2		
40.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.											
45.0	SAND. Fine sand. No gravel.											
50.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.											
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.											
60.0	SAND. Fine sand. No gravel.											
65.0	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. II0300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 494,303.24 mE +/- 0.02 m 4,950,300.30 mN +/- 0.02 m
 Elevation (ft.): 932.7 +/- 0.1 ft.
 Ground Water Depth (ft.): 56.0
 Ground Water Elevation (ft.): 876.7
 Site: Edge of grassy field road at natural grade.

Drilling Method: 9-inch flight auger Started: 11/9/07 9:25 AM
 Drilling Contractor: Braun Intertec Completed: 11/9/07 10:55 AM
 Drill Rig: CME-750 Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch.										Superior lobe outwash	16.4 % + #4
	SAND. Fine to medium sand. Very minor gravel to 2 inches.				17.7	1.4	3.4	12.9	41.1			
15.0	SAND. Fine to coarse sand. Very minor gravel to 2 inches.				13.7	3.4	4.5	5.9	23.1			
20.0	SAND. Fine to coarse sand. Minor gravel to 1 inch.				12.4	1.6	2.9	7.9	27.7			
25.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				21.2	0.0	4.9	16.3	29.3			
30.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				14.6	0.0	2.1	12.5	25.8			
35.0	SAND. Fine sand. Very minor gravel to 1-1/4 inches.				7.4	0.0	1.4	6.1	19.1			
40.0	SAND. Fine to medium sand. Minor gravel to 3 inches.				18.5	4.7	5.1	8.6	21.6			
45.0	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.				24.8	8.3	6.2	10.2	27.8			
50.0	SAND. Fine to medium sand. No gravel.											
55.0	SAND. Fine sand. No gravel.											
60.0	SAND. Very fine to fine sand. No gravel.											
65.0	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. II0400

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,302.53 mE +/- 0.02 m 4,950,399.68 mN +/- 0.02 m

Elevation (ft.): 933.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered field road at natural grade.

Drilling Method: 9-inch flight auger

Started: 3/27/08 1:55 PM

Drilling Contractor: Braun Intertec

Completed: 3/27/08 3:00 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.5	TOPSOIL. Silty, black.										Loess		
5.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.				5.6	0.0	2.0	3.6	15.4		Superior lobe outwash	32.3 % + #4	
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				24.9	5.2	7.5	12.1	31.3				
15.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/4 inches.				32.5	13.1	8.0	11.3	29.9				
25.0	GRAVEL & SAND. Fine to very coarse sand. Gravel to 4 inches.				39.9	18.1	10.3	11.5	36.5				
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/4 inches.				42.0	15.0	7.8	19.1	40.7				
35.0	GRAVEL & SAND. Fine to very coarse sand. Gravel to 4-1/2 inches.				32.7	15.4	5.2	12.1	38.9				
37.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-3/4 inches.				38.1	16.7	3.3	18.2	59.7				
40.0	SANDSTONE. Very fine sand, yellowish brown.										St. Peter Sandstone		
	T.D. 40 ft.												

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

DRILLING LOG

HOLE NO. II0500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,299.44 mE +/- 0.02 m 4,950,505.07 mN +/- 0.02 m

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

Ground Water Depth (ft.): 60.0

Ground Water Elevation (ft.): 873.1

Site: Edge of plowed field & road ditch assumed at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/9/07 7:30 AM

Drilling Contractor: Braun Intertec

Completed: 11/9/07 9:20 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.0	TOPSOIL. Silty, black.									Loess	
5.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				24.6	2.5	5.9	16.2	21.3	Superior lobe outwash	21.8% + #4
	SAND. Fine to coarse sand. Minor gravel to 2 inches.				18.6	2.5	4.6	11.6	29.5		
15.0					20.5	1.4	5.0	14.0	29.1		
	SAND. Fine to coarse sand. Minor gravel to 4 inches.				19.9	10.8	2.9	6.2	23.5		
20.0					33.6	18.9	6.3	8.4	30.3		
	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				26.7	6.9	5.4	14.3	31.1		
25.0					20.8	0.0	4.9	16.0	23.3		
	SAND. Fine sand, slightly dirty. Minor gravel to 1 inch.				19.2	5.5	4.4	9.3	22.3		
30.0					12.9	2.2	2.7	8.0	20.4		
	SAND. Fine sand, slightly dirty. Minor gravel to 2-1/2 inches.										
35.0											
	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 2 inches.										
40.0											
	SAND. Fine to medium sand, dirty. Very minor gravel to 1 inch.										
45.0											
	SANDSTONE. Very fine sand, white.										
50.0											
65.0											
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. II0700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,300.19 mE +/- 0.02 m 4,950,696.94 mN +/- 0.02 m

Elevation (ft.): 936.1 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/8/07 2:15 PM

Drilling Contractor: Braun Intertec

Completed: 11/8/07 4:25 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.	934.6									Loess	
3.5	SILT. Brown.	932.6										
5.0	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 1 inch.	931.1				5.9	0.0	1.6	4.3	22.2	Superior lobe outwash	27.8% + #4
10.0	SAND. Fine sand: Very minor trace gravel to 1 inch.	926.1				19.3	11.8	3.4	4.2	18.7		
15.0	SAND. Fine sand. Minor gravel to 2-1/2 inches.	921.1				28.2	12.1	5.9	10.1	18.2		
20.0	SAND & GRAVEL. Fine to medium sand. Gravel to 3-1/2 inches.	916.1				34.8	6.9	8.5	19.4	22.5		
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	906.1				38.9	4.1	11.4	23.3	33.4		
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	896.1				35.4	0.0	9.1	26.3	26.5		
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch. High percentage pea gravel.	891.1				30.6	0.8	3.3	26.5	28.1		
50.0	NO RECOVERY. Samples displaced while drilling sandstone below. Assumed similar to 40 to 45 feet based on drill action	886.1									St. Peter Sandstone	
56.0	SAND. Fine to medium sand, dirty & iron stained. Minor gravel to 1 inch.	880.1										
65.0	SANDSTONE. Very fine sand, white.	871.1										
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. II0900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 494,300.12 mE +/- 0.02 m 4,950,835.40 mN +/- 0.02 m
 Elevation (ft.): 935.3 +/- 0.1 ft.
 Ground Water Depth (ft.): Ground water not encountered
 Ground Water Elevation (ft.):
 Site: Plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 11/8/07 12:25 PM
 Drilling Contractor: Braun Intertec Completed: 11/8/07 2:10 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)			
1.0	934.3										Loess	
TOPSOIL. Silty, black. SAND. Very fine to fine sand, very dirty. Very minor trace gravel to 1 inch. Lower contact based on drill action. May be fill.												
7.0	928.3										Superior lobe outwash	21.0 % + #4
SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.					7.2	0.0	1.9	5.2	23.8			
15.0	920.3				5.9	1.0	1.3	3.5	21.2			
SAND. Fine to coarse sand. Very minor gravel to 2 inches.					14.3	1.0	4.8	8.5	25.2			
20.0	915.3				30.4	9.1	8.0	13.3	25.0			
SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.					28.7	1.4	6.8	20.5	27.6			
25.0	910.3				25.4	0.0	3.2	22.2	21.5			
SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.					27.4	0.0	4.9	22.5	26.3			
30.0	905.3											
SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.												
42.0	893.3											
SAND. Fine to medium sand, dirty & iron stained. Minor gravel to 1 inch.												
45.0	890.3											
Broke off augers 5 feet below ground at beginning of 45 to 65 foot run. Refusal at 45 feet in coarse 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. II1000

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,295.68 mE +/- 0.02 m 4,951,002.43 mN +/- 0.02 m

Elevation (ft.): 934.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of grassy area between buildings, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 4/22/08 11:10 AM

Drilling Contractor: Braun Intertec

Completed: 4/22/08 12:15 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.0	TOPSOIL. Silty, sandy, dark brown.										Loess	
5.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.				9.9	3.2	2.4	4.2	25.6		Superior lobe outwash	23.3% + #4
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				11.4	0.8	2.3	8.2	31.3			
20.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.				26.3	1.6	6.1	18.6	31.9			
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.				28.6	1.9	4.0	22.7	36.3			
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches. High percentage pea gravel. Very rocky (drill action) from 25 to 30 feet.				34.4	1.4	5.3	27.6	38.7			
36.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				37.1	5.4	9.8	21.9	27.7			
40.0	SILT. Brownish gray.									Lacustrine sediment		
	T.D. 40 ft.											

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

Property: UMore Park Property

UTM Zone 15/NAD83/NAVD88
 494,371.28 mE +/- 0.02 m 4,951,100.34 mN +/- 0.02 m
 Elevation (ft.): 936.3 +/- 0.1 ft.
 Ground Water Depth (ft.): Ground water not encountered
 Ground Water Elevation (ft.):
 Site: Edge of corn stubble field at natural grade.

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

Drilling Method: 9-inch flight auger Started: 11/8/07 10:25 AM
 Drilling Contractor: Braun Intertec Completed: 11/8/07 11:40 AM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.0 TOPSOIL. Silty, black.	935.3										Loess		
3.0 SILT. Brown.	933.3												
5.0 SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1-1/4 inches.	931.3				↕						Superior lobe outwash	15.5 % + #4	
SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.					↕								
15.0	921.3				↕	11.3	0.0	2.8	8.5	32.3			
SAND. Fine sand. Very minor trace gravel to 1/2 inch.					↕	4.6	0.0	0.6	4.1	22.3			
25.0	911.3				↕	1.4	0.0	0.0	1.4	21.4			
SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 1-1/4 inches. Very rocky (drill action) from 37 to 38 feet. Till balls present.					↕	1.9	0.0	0.3	1.5	18.9			
38.0	898.3				↕	31.6	0.0	5.8	25.8	30.3			
TILL. Clayey, gray & brown.					↕	33.4	0.0	7.8	25.6	15.0			
45.0	891.3				↕						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. II1200

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,290.50 mE +/- 0.02 m 4,951,199.65 mN +/- 0.02 m

Elevation (ft.): 934.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Grassy area between buildings, surface likely disturbed.

Drilling Method: 9-inch flight auger

Started: 4/22/08 10:00 AM

Drilling Contractor: Braun Intertec

Completed: 4/22/08 11:05 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.0	FILL. Silty, sandy, gravelly.									Fill	
3.0	TOPSOIL. Silty, black.									Loess	
6.0	SILT. Brown. Lower contact based on drill action.									Superior lobe outwash	22.7 % + #4
10.0	SAND. Fine to coarse sand. Very minor gravel to 2-1/4 inches.				14.9	4.1	3.2	7.6	30.0		
15.0	SAND. Fine to coarse sand. Minor gravel to 2-1/4 inches.				23.4	8.8	6.1	8.5	34.3		
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				28.3	16.4	5.1	6.8	36.1		
25.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				17.9	6.5	4.2	7.2	21.8		
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2 inches.				25.8	6.6	8.6	10.7	36.0		
33.0										Lacustrine sediment	
35.0	SAND. Very fine sand. No gravel.										
45.0	SILT. Brown.										
	T.D. 45 ft.										

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

DRILLING LOG

HOLE NO. II1300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,373.92 mE +/- 0.02 m 4,951,311.93 mN +/- 0.02 m

Elevation (ft.): 934.4 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/8/07 9:05 AM

Drilling Contractor: Braun Intertec

Completed: 11/8/07 10:15 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine sand. No gravel.											
10.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.				11.4	3.2	1.7	6.4	23.5		Superior lobe outwash	20.1 % + #4
15.0	SAND. Fine to medium sand. Minor gravel to 3 inches.				18.6	7.8	4.8	5.9	23.4			
20.0	SAND. Fine to medium sand. Minor gravel to 1-1/2 inches.				24.4	2.2	6.6	15.6	28.1			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				31.1	4.4	7.1	19.7	20.9			
30.0	SAND. Fine to medium sand, dirty. Minor gravel to 3-1/2 inches.				18.5	4.5	3.1	10.9	31.1			
45.0	SAND. Very fine sand, slightly dirty, reddish brown. No gravel. Seems to be finer & redder towards bottom of 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. II1500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,336.29 mE +/- 0.02 m 4,951,499.66 mN +/- 0.02 m

Elevation (ft.): 935.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Edge of plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 11/12/07 1:45 PM

Drilling Contractor: Braun Intertec

Completed: 11/12/07 2:45 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
0.5 TOPSOIL. Silty, black.	934.8									Loess	
3.0 SILT. Brown.	932.3										
5.0 SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.	930.3									Superior lobe outwash	
10.0 SAND. Fine to medium sand. Very minor trace gravel to 1 inch.	925.3										
SAND. Fine sand. Very minor trace gravel to 1 inch.											
20.0	915.3										
SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	910.3										
SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	905.3										
32.0 SAND. Fine to coarse sand. Minor gravel to 1 inch. Very rocky (drill action) 31 to 32 feet. Refusal in coarse gravel at 32 ft.	903.3										
	T.D. 32 ft.										

No samples taken. Not much gravel in samples. May be economic if interval beginning at 31 feet is very thick.

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

DRILLING LOG

HOLE NO. II1700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,300.15 mE +/- 0.02 m 4,951,699.38 mN +/- 0.02 m

Elevation (ft.): 935.3 +/- 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: 1/29/08 9:35 AM

Drilling Contractor: Braun Intertec

Completed: 1/29/08 10:40 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation
Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.0 TOPSOIL. Silty, black.	933.3									Loess	
4.0 SILT. Brown.	931.3										
5.0 SAND & GRAVEL. Fine to medium sand. Gravel to 1-1/2 inches.	930.3				10.7	1.8	3.3	5.6	19.6	Superior lobe outwash	23.1 % + #4
10.0 SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	925.3				10.4	0.0	1.7	8.7	33.2		
15.0 SAND. Fine to coarse sand. Very minor gravel to 1 inch.	920.3				9.8	0.8	2.6	6.4	22.1		
20.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	915.3				15.3	3.9	3.0	8.4	29.0		
25.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/4 inches.	910.3				36.4	0.0	6.6	29.8	38.1		
30.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 1 inch.	905.3				33.1	2.9	9.0	21.2	35.4		
35.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	900.3				41.1	0.0	6.5	34.7	32.2		
40.0 GRAVEL & SAND. Fine to coarse sand. Gravel to 1 inch.	895.3				35.6	3.7	3.9	28.0	28.3		
43.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches. Very rocky (drill action) from 40 to 43 feet. Refusal in coarse gravel at 43 feet.	892.3										
	T.D. 43 ft.										

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

DRILLING LOG

HOLE NO. II1900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 494,321.62 mE +/- 0.02 m 4,951,902.86 mN +/- 0.02 m
 Elevation (ft.): 932.8 +/- 0.1 ft.
 Ground Water Depth (ft.): 64.5
 Ground Water Elevation (ft.): 868.3
 Site: Snow covered pasture at natural grade.

Drilling Method: 9-inch flight auger Started: 1/29/08 10:50 AM
 Drilling Contractor: Braun Intertec Completed: 1/29/08 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.	931.3									Loess	
4.0 SILT. Brown.	928.8										
5.0 SAND. Fine sand. Very minor trace gravel to 3/4 inch.	927.8									Superior lobe outwash	14.8% + #4
10.0 SAND. Fine to medium sand. Very minor gravel to 1 inch.	922.8				10.2	0.6	2.5	7.0	33.7		
15.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	917.8										
20.0 SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	912.8				15.2	4.4	3.2	7.6	36.1		
25.0 SAND. Fine to very coarse sand. Very minor gravel to 1-1/4 inches.	907.8				14.9	0.0	2.5	12.3	25.8		
30.0 SAND. Medium to very coarse sand. Minor gravel to 1 inch, mostly pea gravel.	902.8				21.3	0.0	1.8	19.4	37.7		
35.0 SAND. Fine to coarse sand. Minor gravel to 2 inches.	897.8				17.8	2.8	3.0	11.9	36.8		
45.0 SAND. Very fine sand, slightly dirty from 35 to 40 feet. No gravel.	887.8									Lacustrine sediment	
55.0 SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches. Oxidized yellowish brown color.	877.8									Older outwash	
65.0 SAND. Fine to coarse sand. Very minor gravel to 1 inch. Yellowish brown color.	867.8										
T.D. 65 ft.											
Estimated 10 to 15 percent gravel from 45 to 65 feet, not enough to justify sampling 10 feet of very fine sand above.											

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

DRILLING LOG

HOLE NO. II2100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,299.61 mE +/- 0.02 m 4,952,099.74 mN +/- 0.02 m

Elevation (ft.): 909.7 +/- 0.1 ft.

Ground Water Depth (ft.): 44.0

Ground Water Elevation (ft.): 865.7

Site: Snow covered pasture at natural grade.

Drilling Method: 9-inch flight auger

Started: 1/29/08 1:00 PM

Drilling Contractor: Braun Intertec

Completed: 1/29/08 2:25 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)	Geologic Interpretation	Economic Classification
TOPSOIL. Silty, black.	0 - 15.0									Loess	
SILT. Brownish gray. Lower contact based on drill action.	15.0 - 20.0										
SAND. Fine to coarse sand, iron stained in upper part of interval. Minor gravel to 1-3/4 inches.	20.0 - 25.0				17.2	2.3	5.8	9.2	34.7	Superior lobe outwash	23.9% + #4
SAND. Fine to medium sand. Very minor trace gravel to 1 inch.	25.0 - 30.0				2.9	0.0	1.0	1.9	12.4		
SAND & GRAVEL. Fine to medium sand. Gravel to 4 inches.	30.0 - 35.0				33.2	24.6	3.4	5.2	29.6		
GRAVEL & SAND. Fine to very coarse sand, dirty & iron stained. Gravel to 3-1/2 inches. Small sample volume 40 to 45 feet.	35.0 - 45.0				42.3	14.0	10.9	17.3	41.3		
SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches.	45.0 - 50.0										
SAND. Fine to medium sand, slightly dirty. No gravel.	50.0 - 65.0										
T.D. 65 ft.	65.0										

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

DRILLING LOG

HOLE NO. II2300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,281.06 mE +/- 0.02 m 4,952,306.40 mN +/- 0.02 m

Elevation (ft.): 929.1 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered grassy clearing in woods at natural grade.

Drilling Method: 9-inch flight auger

Started: 1/28/08 3:15 PM

Drilling Contractor: Braun Intertec

Completed: 1/28/08 4:15 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	
6.0	SILT. Brown. Lower contact based on drill action.											
10.0	SAND. Fine sand. Very minor gravel to 1-1/4 inches.					11.0	1.0	5.0	5.0	27.4	Superior lobe outwash	21.8 % + #4
15.0	SAND. Fine to medium sand. Minor gravel to 1-3/4 inches.					15.1	3.4	5.7	6.1	31.5		
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/4 inches.					27.1	5.6	8.0	13.5	34.6		
25.0	SAND. Fine to coarse sand. Minor gravel to 2-1/4 inches.					19.0	2.7	4.4	11.9	28.1		
30.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					21.9	2.7	4.0	15.3	35.7		
40.0	SAND. Fine to very coarse sand. Minor gravel to 2-1/4 inches.					20.3	2.3	4.5	13.4	42.3		
45.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 4 inches.					23.4	1.9	7.3	14.2	32.0		
50.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.					31.6	12.4	3.1	16.2	36.9		
55.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3 inches.					20.7	0.8	5.7	14.2	32.2		
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/4 inches.					27.3	7.1	3.9	16.3	34.3		
65.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.					19.8	0.6	3.8	15.4	31.2		
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. II2400

Page 1 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,311.44 mE +/- 0.02 m 4,952,390.82 mN +/- 0.02 m

Elevation (ft.): 931.8 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water level greater than 60 feet

Ground Water Elevation (ft.):

Site: Grassy field approach at natural grade.

Drilling Method: 4x6 Rotasonic

Started: 3/26/08 11:00 AM

Drilling Contractor: Traut Wells

Completed: 3/26/08 1:40 PM

Drill Rig: Versasonic

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
		Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)					
1.0	TOPSOIL. Sandy, silty, dark brown.													
8.0	SAND. Fine sand, dirty from 1 to 3 feet. No gravel.												Loess	
10.0	SAND. Fine to medium sand. Minor gravel to 2 inches.													
15.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.					14.5	6.0	2.7	5.7	38.9				
20.0	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.													
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches. Poor recovery from 20 to 40 feet - only 7.5 feet.					27.0	5.5	7.3	14.2	36.8				
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 4 inches. Four-inch rock at bottom of interval.													
35.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 2 inches.					33.3	10.6	6.0	16.6	39.8				
40.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 3-1/2 inches					27.5	3.7	4.4	19.4	35.7				
45.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 1 inch.					26.4	3.9	5.2	17.3	34.8			Superior lobe outwash	
51.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.					10.2	6.0	1.4	2.8	35.1				
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.					14.5	1.3	2.2	11.1	31.9				
60.0	SAND. Fine to very coarse sand. Very minor gravel to 1 inch.					11.0	0.0	1.7	9.4	35.0				
70.0	GRAVEL & SAND. Medium to very coarse sand. Gravel to 2 inches.													

23.1% + #4

Continued Next Page

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

DRILLING LOG

HOLE NO. II2400

Page 2 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,311.44 mE +/- 0.02 m 4,952,390.82 mN +/- 0.02 m

Elevation (ft.): 931.8 +/- 0.1 ft.

Ground Water Depth (ft.): Ground water level greater than 60 feet

Ground Water Elevation (ft.):

Site: Grassy field approach at natural grade.

Drilling Method: 4x6 Rotasonic

Started: 3/26/08 11:00 AM

Drilling Contractor: Traut Wells

Completed: 3/26/08 1:40 PM

Drill Rig: Versasonic

Logged By: J.D. Lehr

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
<p>79.0 GRAVEL & SAND. Medium to very coarse sand. Gravel to 2 inches. (continued)</p> <p>80.0</p> <p>82.0 SAND. Very fine sand, dirty. No gravel.</p> <p>GRAVEL & SAND. Fine to very coarse sand, extremely dirty. Gravel to 4 inches.</p> <p>SILT. Gray & yellowish brown.</p> <p>93.0</p> <p>SAND. Fine to coarse sand, dirty & iron stained. Very minor gravel to 1/2 inch.</p> <p>100.0</p>	<p>852.8</p> <p>851.8</p> <p>849.8</p> <p>838.8</p> <p>831.8</p> <p>T.D. 100 ft.</p>				40.1	2.3	7.1	30.8	36.5	Older OW	
										Lacustrine sediment	
										Older outwash	

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

DRILLING LOG

HOLE NO. II2500

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,300.26 mE +/- 0.02 m 4,952,499.99 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 field at natural grade.

Drilling Method: 9-inch flight auger

Started: 1/28/08 1:45 PM

Drilling Contractor: Braun Intertec

Completed: 1/28/08 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)			
1.0	TOPSOIL. Silty, dark brown.										Loess	
2.0	SILT. Brown.										Superior lobe outwash	19.2 % + #4
5.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.											
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/4 inches.				11.6	1.6	3.6	6.4	39.7			
15.0	SAND. Fine sand. Very minor trace gravel to 1-1/4 inches.											
20.0	SAND. Fine sand. Very minor gravel to 1-3/4 inches.				12.5	4.4	4.5	3.6	31.8			
25.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.											
30.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				23.7	7.0	6.6	10.2	37.7			
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				26.7	10.1	6.0	10.6	31.0			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				26.0	6.2	6.0	13.9	40.9			
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 5 inches.				31.4	14.6	5.7	11.2	39.0			
50.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.				21.2	5.7	4.7	10.8	46.8			
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.											
	T.D. 55 ft.											
Hole terminated at 55 feet - driller thought he encountered "clay" between 50 & 55 feet, but sand is present all the way to 55 feet.												

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

DRILLING LOG

HOLE NO. II2700

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 494,299.65 mE +/- 0.02 m 4,952,700.08 mN +/- 0.02 m
 Elevation (ft.): 885.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 22.0
 Ground Water Elevation (ft.): 863.2
 Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 1/28/08 12:50 PM
 Drilling Contractor: Braun Intertec Completed: 1/28/08 1:35 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		

4.5	880.7									Loess	
TOPSOIL. Silty, black.											
10.0	875.2									Superior lobe outwash	
SILT. Grayish brown to brown. Lower contact based on drill action.											
15.0	870.2										
SAND. Fine to medium sand. Very minor trace gravel to 1 inch.											
SAND. Fine to medium sand. No gravel.											
25.0	860.2										
SAND. Fine to coarse sand. Very minor gravel to 3 inches. ▼											
35.0	850.2										
SAND. Fine to very coarse sand. Very minor gravel to 3/4 inch.											
45.0	840.2										
SAND. Fine to very coarse sand. Minor gravel to 1 inch.											

T.D. 45 ft.
 No samples taken. Estimated less than 15 percent gravel from 10 to 45 feet, also note high water table.

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

DRILLING LOG

HOLE NO. II2900

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 494,303.07 mE +/- 0.02 m 4,952,891.83 mN +/- 0.02 m
 Elevation (ft.): 895.3 +/- 0.1 ft.
 Ground Water Depth (ft.): 33.0
 Ground Water Elevation (ft.): 862.3
 Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger Started: 1/28/08 11:20 AM
 Drilling Contractor: Braun Intertec Completed: 1/28/08 12:10 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

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

2.0	TOPSOIL. Silty, black.	893.3								
3.0	SILT. Brown.	892.3								Loess
5.0	SAND. Fine to medium sand. Very minor gravel to 3/4 inch.	890.3								Superior lobe outwash
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.	885.3								
	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.									
20.0		875.3								
	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.									
25.0		870.3								
	SAND. Fine to very coarse sand. Minor gravel to 1-3/4 inches.									
30.0		865.3								
	SAND. Fine to very coarse sand. Minor gravel to 2 inches.									
35.0		860.3								
	SAND. Fine to very coarse sand. Very minor gravel to 1 inch.									
45.0		850.3								

T.D.
45 ft.

No samples taken. Estimated less than 15 percent gravel from 3 to 45 feet, also note high water table.

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

DRILLING LOG

HOLE NO. I13100

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,317.82 mE +/- 0.02 m 4,953,099.97 mN +/- 0.02 m

Elevation (ft.): 937.3 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered clearing in woods at natural grade.

Drilling Method: 9-inch flight auger

Started: 2/4/08 9:20 AM

Drilling Contractor: Braun Intertec

Completed: 2/4/08 10:35 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)	Geologic Interpretation	Economic Classification
1.0 TOPSOIL. Silty, black.	936.3									Loess	
3.0 SILT. Brown.	934.3										
5.0 SAND. Fine to medium sand. Very minor gravel to 2 inches.	932.3				6.5	1.5	1.0	4.0	36.2	Superior lobe outwash	14.1% + #4
SAND. Fine to medium sand. Very minor gravel to 1 inch.											
15.0 SAND. Fine to coarse sand. Very minor gravel to 2 inches.	922.3				9.4	2.3	3.8	3.3	35.7		
20.0 SAND. Fine to coarse sand. Minor gravel to 2 inches.	917.3										
25.0 SAND. Fine to coarse sand. Minor gravel to 2 inches.	912.3				21.2	4.7	5.8	10.8	32.0		
30.0 SAND. Fine to very coarse sand. Minor gravel to 1 inch.	907.3				15.0	0.0	5.2	9.8	30.7		
SAND. Fine to very coarse sand. Minor gravel to 1-3/4 inches.											
45.0 SAND. Fine to very coarse sand. Minor gravel to 1-3/4 inches.	892.3				16.2	2.7	4.8	8.7	30.9		
50.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches. Higher percentage gravel indicated by drill action.	887.3				18.5	0.0	6.2	12.2	27.2		
SAND. Fine sand. No gravel.											
60.0 SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.	877.3				21.1	0.0	4.5	16.6	28.0		
65.0 SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.	872.3				12.5	4.4	2.1	6.0	17.5		
T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. I13300

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

494,300.82 mE +/- 0.02 m 4,953,298.99 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Snow covered grassy area next to test driving track at approximately natural grade.

Drilling Method: 9-inch flight auger

Started: 2/4/08 2:55 PM

Drilling Contractor: Braun Intertec

Completed: 2/4/08 4:15 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
1.0 TOPSOIL. Silty, dark brown.	928.7									Loess	
4.5 SILT. Sandy towards bottom of interval, brown.	925.2										
5.0 SAND. Fine to medium sand. No gravel.	924.7									Superior lobe outwash	23.1 % + #4
10.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	919.7				12.2	0.7	4.1	7.4	28.6		
15.0 SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	914.7				16.7	1.4	5.9	9.4	32.9		
20.0 SAND. Fine to coarse sand. Minor gravel to 2-1/4 inches.	909.7				21.5	3.9	7.3	10.2	33.1		
25.0 SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches. High percentage pea gravel.	904.7				31.3	5.0	3.3	23.0	34.3		
30.0 SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches.	899.7				29.0	0.0	7.6	21.4	32.1		
35.0 SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.	894.7				27.8	1.1	3.4	23.2	27.8		
40.0 SAND. Fine to very coarse sand. Minor gravel to 1-1/4 inches.	889.7				23.4	0.0	6.6	16.7	26.4		
SAND. Fine to coarse sand. Very minor gravel to 1 inch.	864.7										
T.D. 65 ft.	65										

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