

DRILLING LOG

HOLE NO. D0450

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,199.65 mE +/- 0.02 m 4,950,449.98 mN +/- 0.02 m

Elevation (ft.): 952.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 2/21/08 2:40 PM

Drilling Contractor: Braun Intertec

Completed: 2/21/08 3:45 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	GRAVEL & SAND. Fine to coarse sand. Gravel to 2 inches.										Superior lobe outwash	20.0 % + #4
10.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				22.0	5.4	7.2	9.4	33.5			
15.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.											
20.0	SAND. Fine to medium sand. Very minor gravel to 4 inches.				14.9	9.3	1.3	4.4	27.8			
25.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.											
30.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				4.8	0.0	1.0	3.8	25.5			
35.0	SAND. Fine sand. No gravel.											
40.0	SAND & GRAVEL. Fine to medium sand. Gravel to 2 inches.				37.5	9.4	14.3	13.7	31.6			
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/4 inches.				33.1	7.5	9.8	15.8	32.7			
50.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				24.2	0.0	5.9	18.4	24.6			
52.0										Till		
53.0	TILL. Sandy, reddish brown.											
	T.D. 53 ft.											

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

DRILLING LOG

HOLE NO. D0550

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,200.28 mE +/- 0.02 m 4,950,551.20 mN +/- 0.02 m
 Elevation (ft.): 950.2 +/- 0.1 ft.
 Ground Water Depth (ft.): 60.5
 Ground Water Elevation (ft.): 889.7
 Site: Grassy field road at natural grade.

Drilling Method: 9-inch flight auger Started: 4/18/08 8:45 AM
 Drilling Contractor: Braun Intertec Completed: 4/18/08 10:20 AM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
2.0	TOPSOIL. Silty, black.	948.2									Loess		
5.0	SILT. Brown.	945.2											
10.0	SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.	940.2				17.7	2.1	4.6	11.0	33.6	Superior lobe outwash	17.1 % + #4	
15.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches.	935.2				13.9	0.6	5.0	8.4	30.6			
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	930.2				10.1	1.8	1.4	6.9	30.8			
25.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	925.2				16.5	3.3	3.5	9.7	27.6			
30.0	SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.	920.2				18.5	1.5	3.5	13.5	31.4			
35.0	SAND. Fine to very coarse sand. Minor gravel to 2 inches.	915.2				23.7	6.0	3.3	14.4	34.1			
40.0	SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.	910.2				20.3	0.0	2.3	18.0	27.4			
45.0	SAND. Fine to very coarse sand. Minor gravel to 1 inch.	905.2				20.3	0.6	1.6	18.0	32.5			
50.0	SAND. Fine to medium sand. Minor gravel to 2-3/4 inches.	900.2				18.0	6.4	4.1	7.5	26.9			
55.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	895.2				11.5	1.4	2.7	7.3	20.9			
60.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	890.2				20.5	1.4	4.1	15.0	28.0			
65.0	SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches.	885.2				14.0	0.0	3.3	10.7	24.9			
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. D0750

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,198.22 mE +/- 0.02 m 4,950,764.30 mN +/- 0.02 m
 Elevation (ft.): 949.0 +/- 0.1 ft.
 Ground Water Depth (ft.): 61.0
 Ground Water Elevation (ft.): 888.0
 Site: Edge of plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 4/17/08 10:50 AM
 Drilling Contractor: Braun Intertec Completed: 4/17/08 12:25 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.5	TOPSOIL. Silty, black.									Loess	
4.0	SILT. Brown.										
5.0	SAND. Fine to coarse sand, slightly dirty. Very minor trace pea gravel.				34.1	1.9	5.7	26.5	45.7	Superior lobe outwash	23.4% + #4
10.0	GRAVEL & SAND. Fine to very coarse sand. Gravel to 1-1/2 inches.				35.6	5.5	12.1	18.1	38.4		
15.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				14.9	2.3	3.6	9.0	30.0		
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				4.0	0.0	0.4	3.6	18.4		
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-3/4 inches.				25.0	5.0	6.2	13.9	36.2		
30.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				24.7	2.1	6.1	16.5	39.3		
35.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				17.1	0.0	6.2	10.9	29.8		
45.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/4 inches.				19.5	1.2	5.6	12.7	29.6		
50.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3-1/4 inches.				29.7	5.4	7.7	16.6	40.5		
55.0	SAND. Fine to coarse sand. Minor gravel to 3-1/4 inches.				26.8	8.2	4.5	14.1	33.7		
60.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.				23.8	7.3	5.0	11.5	31.9		
65.0	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. D0950

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,200.78 mE +/- 0.02 m 4,950,975.77 mN +/- 0.02 m
 Elevation (ft.): 945.9 +/- 0.1 ft.
 Ground Water Depth (ft.): 59.0
 Ground Water Elevation (ft.): 886.9
 Site: Grassy field road at natural grade.

Drilling Method: 9-inch flight auger Started: 4/16/08 10:30 AM
 Drilling Contractor: Braun Intertec Completed: 4/16/08 12:05 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING				TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
1.0 TOPSOIL. Silty, black.	944.9									Loess	
3.0 SILT. Brown.	942.9										
5.0 SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	940.9									Superior lobe outwash	13.5 % + #4
10.0 SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches. SAND. Fine sand. No gravel.	935.9				12.1	3.4	3.0	5.7	34.1		
20.0	925.9										
SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	920.9				5.0	0.7	1.0	3.3	27.4		
SAND. Fine to very coarse sand. Minor gravel to 2 inches.					19.0	4.2	2.5	12.3	25.8		
40.0	905.9				22.1	3.3	4.1	14.7	37.4		
SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	900.9				19.3	1.7	3.7	14.0	39.0		
SAND. Fine sand. No gravel.					13.8	1.0	2.3	10.5	23.6		
50.0	895.9										
SAND. Fine to medium sand. No gravel.											
65.0	880.9										
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. D1150

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,199.62 mE +/- 0.02 m 4,951,149.76 mN +/- 0.02 m

Elevation (ft.): 943.9 +/- 0.1 ft.

Ground Water Depth (ft.): 58.0

Ground Water Elevation (ft.): 885.9

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 2/22/08 7:20 AM

Drilling Contractor: Braun Intertec

Completed: 2/22/08 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)	Geologic Interpretation	Economic Classification
3.0 TOPSOIL. Silty, black.	940.9									Loess	
5.5 SILT. Brown. Lower contact based on drill action.	938.4										
10.0 SAND & GRAVEL. Fine to medium sand. Gravel to 2-1/2 inches.	933.9				25.1	13.5	5.4	6.1	27.7	Superior lobe outwash	21.3 % + #4
15.0 SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.	928.9				23.1	10.6	6.9	5.6	30.8		
20.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.	923.9				31.0	9.8	8.5	12.6	35.1		
25.0 SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	918.9				21.6	6.9	6.7	8.0	28.0		
30.0 SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches, mostly pea gravel.	913.9				19.4	0.5	3.0	15.9	36.1		
40.0 SAND. Fine to coarse sand. Minor gravel to 2 inches.	903.9				18.7	3.4	4.8	10.5	29.4		
45.0 SAND. Fine to coarse sand. Minor gravel to 4 inches.	898.9				15.0	3.5	2.3	9.2	22.9		
65.0 SAND. Fine to medium sand. No gravel.	878.9				16.7	6.6	4.0	6.0	27.6		
T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. D1350

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,199.95 mE +/- 0.02 m 4,951,350.26 mN +/- 0.02 m

Elevation (ft.): 954.2 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered plowed field at natural grade.

Drilling Method: 9-inch flight auger Started: 2/22/08 12:30 PM

Drilling Contractor: Braun Intertec Completed: 2/22/08 2:10 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.0	TOPSOIL. Silty, black.										Loess	
4.0	SILT. Brown.											
5.0	GRAVEL & SAND. Fine to coarse sand, slightly dirty. Gravel to 8 inches. Very rocky (drill action) from 5 to 9 feet.				53.3	14.4	14.1	24.7	34.6		Superior lobe outwash	18.1% + #4
10.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.											
15.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				4.7	0.0	0.6	4.1	34.9			
20.0	SAND. Fine to medium sand. No gravel.											
25.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.											
30.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.				14.5	2.4	4.6	7.5	37.1			
35.0	SAND. Fine sand. Very minor trace gravel to 1-3/4 inches.											
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				28.3	8.8	7.0	12.5	24.8			
45.0	SAND. Fine to medium sand. Minor gravel to 3 inches.				21.3	12.0	2.8	6.5	31.2			
50.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				9.1	0.0	3.4	5.7	28.9			
60.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3-1/2 inches.				31.5	17.3	5.0	9.2	25.9			
65.0	T.D. 65 ft.											

Large rocks in photographs not included in samples.

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

DRILLING LOG

HOLE NO. D1650

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Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,201.39 mE +/- 0.02 m 4,951,647.82 mN +/- 0.02 m
 Elevation (ft.): 911.4 +/- 0.1 ft.
 Ground Water Depth (ft.): 26.0
 Ground Water Elevation (ft.): 885.4
 Site: Old pasture at natural grade.

Drilling Method: 9-inch flight auger Started: 4/15/08 1:55 PM
 Drilling Contractor: Braun Intertec Completed: 4/15/08 3:30 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
TOPSOIL. Silty, black.	4.0										Loess	
907.4												
SILT. Grayish brown. Lower contact based on drill action.	7.0										Superior lobe outwash	12.4 % + #4
904.4												
SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.	15.0				3.1	0.0	0.5	2.5	23.2			
896.4												
SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.	20.0				11.2	1.5	1.8	7.8	24.8			
891.4												
SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.	25.0				16.6	2.0	3.4	11.1	29.5			
886.4												
SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.	30.0				7.2	0.0	1.6	5.7	30.6			
881.4												
SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	35.0				11.0	0.0	2.1	8.9	36.9			
876.4												
SAND. Fine to very coarse sand. Very minor gravel to 1-1/4 inches.	40.0				7.6	0.0	2.3	5.3	25.9			
871.4												
SAND. Fine to very coarse sand. Very minor gravel to 1-1/2 inches.	45.0				3.3	0.0	1.0	2.3	22.6			
866.4												
SAND. Fine to medium sand. Very minor trace gravel to 1 inch.	50.0				16.6	0.0	2.2	14.4	38.3			
861.4												
SAND. Fine to very coarse sand. Minor gravel to 1-1/2 inches.	55.0				35.9	0.0	4.8	31.1	45.7			
856.4												
SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.	60.0				22.2	1.9	3.6	16.8	35.8			
851.4												
SAND. Fine to very coarse sand. Minor gravel to 2 inches.	65.0											
846.4												
	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. D1750

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,197.15 mE +/- 0.02 m 4,951,749.05 mN +/- 0.02 m
 Elevation (ft.): 908.8 +/- 0.1 ft.
 Ground Water Depth (ft.): 5.0
 Ground Water Elevation (ft.): 903.8
 Site: Old pasture at natural grade.

Drilling Method: 9-inch flight auger Started: 4/15/08 11:15 AM
 Drilling Contractor: Braun Intertec Completed: 4/15/08 1:45 PM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
TOPSOIL. Silty, black.	4.0										Loess		
	904.8												
SILT. Grayish brown. Lower contact based on drill action.	7.0												
	901.8												
SAND. Fine to very coarse sand, slightly dirty. Minor gravel to 1 inch.	10.0												
	898.8												
SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 1-3/4 inches.	15.0												
	893.8				23.0	3.1	6.5	13.4	41.1				
SAND. Fine to medium sand. Very minor gravel to 3/4 inch.	20.0												
	888.8												
SAND. Fine sand. Very minor gravel to 1 inch.	25.0												
	883.8				5.5	0.0	0.9	4.6	28.0				
SAND. Fine to coarse sand. Very minor gravel to 1 inch.	30.0												
	878.8				4.2	0.0	0.4	3.8	31.4				
SAND. Fine to coarse sand. Very minor trace pea gravel.	35.0												
	873.8												
SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.	40.0										Superior lobe outwash	9.1 % + #4	
	868.8				12.9	2.6	2.9	7.5	35.3				
SAND. Fine to very coarse sand. Very minor gravel to 1-3/4 inches.	45.0												
	863.8												
SAND. Fine to very coarse sand. Very minor gravel to 1/2 inch.	50.0												
	853.8				4.8	0.0	0.0	4.8	34.0				
	55.0												
	843.8				6.9	0.0	0.6	6.3	33.1				
	65.0												
	843.8												
	T.D.												
	65 ft.												
Ground water level uncertain.													

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

DRILLING LOG

HOLE NO. D1850

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,194.04 mE +/- 0.02 m 4,951,849.93 mN +/- 0.02 m
 Elevation (ft.): 917.9 +/- 0.1 ft.
 Ground Water Depth (ft.): 32.0
 Ground Water Elevation (ft.): 885.9
 Site: Old pasture at natural grade.

Drilling Method: 9-inch flight auger Started: 4/15/08 9:15 AM
 Drilling Contractor: Braun Intertec Completed: 4/15/08 11:10 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)		
4.0	TOPSOIL. Silty, black.									Loess	14.6% + #4
5.0	SILT. Grayish brown.										
10.0	SAND. Fine sand, dirty. No gravel.										
12.0	SAND. Fine to coarse sand, slightly dirty. Very minor pea gravel.										
15.0	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 2 inches.										
20.0	SAND. Fine sand. Very minor trace pea gravel.				8.2	1.8	1.5	4.9	31.6		
25.0	SAND. Fine to very coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.				19.6	0.9	7.5	11.1	30.8		
30.0	SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1 inch.				16.6	0.0	3.8	12.8	31.4		
35.0	SAND. Fine to coarse sand, slightly dirty. Very minor gravel to 1 inch.				8.4	0.0	2.0	6.4	26.1		
40.0	SAND. Fine to very coarse sand, slightly dirty. Very minor gravel to 1 inch.				7.6	0.0	0.8	6.8	28.8		
45.0					10.7	0.0	1.7	9.0	36.5		
50.0	SAND & GRAVEL. Fine to very coarse sand, slightly dirty. Gravel to 1-3/4 inches.				27.2	2.7	4.2	20.3	42.6		
55.0					27.3	1.0	4.9	21.4	43.7		
60.0	SAND. Fine to very coarse sand, slightly dirty. Minor gravel to 1-3/4 inches.				16.0	0.0	3.2	12.7	31.0		
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. D1950

Page 1 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,197.14 mE +/- 0.02 m 4,951,997.20 mN +/- 0.02 m
 Elevation (ft.): 953.1 +/- 0.1 ft.
 Ground Water Depth (ft.): 65.0
 Ground Water Elevation (ft.): 888.1
 Site: Snow covered field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/18/08 8:20 AM
 Drilling Contractor: Traut Wells Completed: 3/18/08 10:45 AM
 Drill Rig: Versasonic Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.0	TOPSOIL. Silty, black.											
3.0	SAND. Fine sand, dirty. No gravel.											Loess
10.0	SAND. Fine to medium sand, dirty from 3 to 5 feet. Very minor gravel to 1-1/2 inches.				8.6	1.0	2.3	5.3	37.1			27.8% + #4
20.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				16.0	2.0	3.4	10.6	48.9			
30.0	SAND. Fine to coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.				20.1	0.0	4.6	15.5	33.5			
40.0	SAND. Fine to very coarse sand. Very minor gravel to 2-1/4 inches.				14.0	1.7	2.5	9.8	38.8			
45.0	SAND. Fine to very coarse sand, slightly dirty. Minor gravel to 2 inches.				15.6	1.4	2.3	11.9	32.2			
52.0	GRAVEL & SAND. Fine to very coarse sand, slightly dirty to dirty. Gravel to 2-1/2 inches.				56.7	9.3	13.2	34.2	39.6			
60.0	SAND. Fine sand. Very minor trace gravel to 3/4 inch. Hard drilling 50 to 60 feet.				38.1	4.7	10.7	22.6	40.6			
65.0	SAND & GRAVEL. Medium to very coarse sand. Gravel to 2-1/2 inches.				2.0	0.0	0.2	1.8	25.4	Superior lobe outwash		
70.0	SAND & GRAVEL. Fine to very coarse sand, dirty & manganese stained from 70 to 75 feet. Gravel to 2-1/2 inches.				35.2	6.0	10.5	18.7	34.8			

Continued Next Page

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

DRILLING LOG

HOLE NO. D1950

Page 2 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,197.14 mE +/- 0.02 m 4,951,997.20 mN +/- 0.02 m
 Elevation (ft.): 953.1 +/- 0.1 ft.
 Ground Water Depth (ft.): 65.0
 Ground Water Elevation (ft.): 888.1
 Site: Snow covered field road at natural grade.

Drilling Method: 4x6 Rotasonic Started: 3/18/08 8:20 AM
 Drilling Contractor: Traut Wells Completed: 3/18/08 10:45 AM
 Drill Rig: Versasonic Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)		
80.0				80.0 - 85.0	36.5	7.5	10.5	18.6	31.8		
85.0				85.0 - 90.0	5.2	0.0	0.0	5.2	25.0		
90.0				90.0 - 95.0	63.0	23.5	17.6	21.9	36.4		
100.0				95.0 - 100.0	65.6	29.2	17.6	18.9	36.1		
110.0				100.0 - 110.0	43.9	11.0	7.2	25.7	47.5		
120.0				110.0 - 120.0						Till	
Ground water level approximate.				T.D. 120 ft.							

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

DRILLING LOG

HOLE NO. D2150

Page 1 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,201.78 mE +/- 0.02 m 4,952,146.14 mN +/- 0.02 m
 Elevation (ft.): 954.6 +/- 0.1 ft.
 Ground Water Depth (ft.): 65.0
 Ground Water Elevation (ft.): 889.6
 Site: Snow covered plowed field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/25/08 12:05 PM
 Drilling Contractor: Traut Wells Completed: 2/25/08 4:25 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)			
2.0	TOPSOIL. Silty, black.										Loess	
5.5	SILT. Sandy towards bottom of interval, brown.											
10.0	SAND. Fine to medium sand, slightly dirty. Very minor trace gravel to 1-1/2 inches.			↑	4.0	0.0	3.1	0.9	26.7	Superior lobe outwash	22.9% + #4	
15.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.			↑	20.2	3.1	5.3	11.7	28.6			
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/4 inches.			↑	13.6	0.0	4.6	9.0	35.1			
40.0	SAND. Fine to medium sand, slightly dirty. Very minor gravel to 2 inches.			↑	14.0	2.7	2.1	9.2	37.7			
50.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.			↑	9.9	0.9	2.3	6.7	28.2			
56.0	SAND. Fine sand. No gravel.			↑	13.2	1.8	2.7	8.7	28.6			
60.0	SAND & GRAVEL. Fine to coarse sand, slightly dirty. Gravel to 2-1/2 inches.			↑	24.3	0.6	3.2	20.6	37.4			
65.0	SAND. Medium to very coarse sand, slightly dirty. Minor gravel to 1-1/2 inches.			↑	24.6	0.8	5.6	18.2	41.5			
70.0	SAND. Fine to very coarse sand, slightly dirty. Minor gravel to 2 inches.			↑								
75.0	SAND. Very fine to fine sand. No gravel.			↑								

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

DRILLING LOG

HOLE NO. D2150

Page 2 of 2

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 491,201.78 mE +/- 0.02 m 4,952,146.14 mN +/- 0.02 m
 Elevation (ft.): 954.6 +/- 0.1 ft.
 Ground Water Depth (ft.): 65.0
 Ground Water Elevation (ft.): 889.6
 Site: Snow covered plowed field at natural grade.

Drilling Method: 4x6 Rotasonic Started: 2/25/08 12:05 PM
 Drilling Contractor: Traut Wells Completed: 2/25/08 4:25 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	874.6				0.6	0.0	0.2	0.3	20.1				
90.0	864.6												
95.0					53.4	25.9	11.9	15.6	31.4				
					53.7	19.1	13.3	21.2	31.7				
					58.9	21.7	15.1	22.2	34.5				
110.0	843.6				62.6	32.4	16.7	13.5	35.5				
118.0	836.6				49.5	10.2	9.4	29.9	36.5				
120.0	834.6				55.0	10.5	11.9	32.6	38.9				
123.5	831.1											Till	
132.0	822.6											Older outwash	
134.0	820.6									Till			
140.0	814.6									Lacustrine sediment			
Ground water level approximate.				T.D. 140 ft.									

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

DRILLING LOG

HOLE NO. D2350

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,200.00 mE +/- 0.02 m 4,952,397.56 mN +/- 0.02 m

Elevation (ft.): 952.6 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Grassy area at edge of plowed field at natural grade.

Drilling Method: 9-inch flight auger

Started: 4/14/08 10:05 AM

Drilling Contractor: Braun Intertec

Completed: 4/14/08 11:55 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)				Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
1.5	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.										Superior lobe outwash	18.5 % + #4
	SAND. Fine to medium sand. Very minor gravel to 1 inch.				7.0	0.0	1.6	5.4	33.3			
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				11.5	1.5	3.6	6.4	36.4			
20.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				17.9	3.0	4.6	10.3	32.0			
25.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				27.0	3.8	4.5	18.6	33.1			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				21.6	1.5	7.0	13.0	35.4			
35.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				20.5	4.1	6.7	9.7	31.5			
40.0	SAND. Fine sand. Very minor gravel to 1 inch.				8.3	0.0	2.2	6.0	20.5			
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches. Very rocky (drill action) from 46 to 50 feet.				31.3	12.1	5.7	13.5	39.0			
50.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				30.2	3.3	7.9	19.0	34.8			
55.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.				21.3	3.7	5.8	11.8	37.9			
60.0	SAND. Very fine sand. No gravel. Gradational with below.									Lacustrine sediment		
62.0	SILT. Sandy, brown.											
65.0	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. D2550

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,199.68 mE +/- 0.02 m 4,952,550.32 mN +/- 0.02 m

Elevation (ft.): 952.5 +/- 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: 2/27/08 12:20 PM

Drilling Contractor: Braun Intertec

Completed: 2/27/08 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	
3.0	SILT. Brown. Gradational with below.										
5.0	SAND. Very fine sand, very dirty. Very minor trace gravel to 1 inch.									20.4% + #4	
10.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				19.7	0.8	7.3	11.6	29.4		
15.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.				14.7	0.0	5.4	9.3	25.2		
20.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/2 inches.				25.5	12.6	4.4	8.4	32.3		
25.0	SAND. Fine to very coarse sand. Minor gravel to 2 inches.				16.8	6.1	1.3	9.4	20.1		
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				25.5	12.1	6.5	6.9	29.5		
35.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.									Superior lobe outwash	
40.0	SAND. Fine to medium sand. Very minor trace gravel to 1 inch.										
45.0	SAND. Fine to medium sand. No gravel.										
50.0	SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.										
55.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.										
60.0	SAND. Fine to medium sand. Very minor trace gravel to 1/2 inch.										
65.0	SAND. Fine to coarse sand. Minor gravel to 3 inches.										
	T.D. 65 ft.										

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

DRILLING LOG

HOLE NO. D2750

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,200.42 mE +/- 0.02 m 4,952,749.30 mN +/- 0.02 m

Elevation (ft.): 952.4 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 2/27/08 10:20 AM

Drilling Contractor: Braun Intertec

Completed: 2/27/08 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)			
2.0	TOPSOIL. Silty, black.										Loess	
3.5	SILT. Sandy towards bottom of interval, brown.											
5.0	SAND. Fine to very coarse sand. Minor gravel to 1 inch.										Superior lobe outwash	18.3 % + #4
10.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.				10.8	0.9	2.5	7.4	39.2			
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.				17.7	2.4	5.8	9.5	27.8			
20.0	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				19.1	10.2	3.3	5.7	35.9			
25.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				14.2	1.7	3.8	8.8	30.5			
30.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 4 inches.				26.2	11.2	4.6	10.4	32.3			
35.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.				23.4	6.0	4.8	12.6	31.0			
40.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				25.9	9.5	5.6	10.8	41.4			
45.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.				26.7	5.8	8.9	11.9	29.9			
50.0	SAND. Fine to medium sand. Very minor gravel to 1-3/4 inches.				14.5	3.2	3.0	8.3	27.8			
55.0	SAND. Fine to medium sand. Very minor gravel to 2 inches.				13.9	3.6	2.3	8.0	25.6			
60.0	SAND. Very fine to fine sand. No gravel.											
65.0	T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. D2950

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,199.85 mE +/- 0.02 m 4,952,949.57 mN +/- 0.02 m

Elevation (ft.): 946.1 +/- 0.1 ft.

Ground Water Depth (ft.): 62.0

Ground Water Elevation (ft.): 884.1

Site: Snow covered corn stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 2/27/08 8:45 AM

Drilling Contractor: Braun Intertec

Completed: 2/27/08 10:15 AM

Drill Rig: CME-750

Logged By: J.D. Lehr

DRILLING & SAMPLING

TEST RESULTS (%)

Geologic Interpretation

Economic Classification

Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)	Geologic Interpretation	Economic Classification
2.0 TOPSOIL. Silty, black.	944.1									Loess	
4.0 SILT. Brown.	942.1										
5.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2-1/4 inches.	941.1				33.1	1.6	5.0	26.5	39.6	Superior lobe outwash	23.6 % + #4
10.0 SAND & GRAVEL. Fine to very coarse sand. Gravel to 1 inch. High percentage pea gravel.	936.1				36.4	0.0	4.0	32.4	40.7		
15.0 SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/4 inches. High percentage pea gravel.	931.1				24.3	2.1	4.2	18.0	33.2		
20.0 SAND. Fine to very coarse sand. Minor gravel to 2 inches.	926.1				13.5	0.0	2.4	11.1	22.7		
25.0 SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	921.1				16.0	0.8	3.0	12.2	30.5		
30.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	916.1				26.5	6.3	5.7	14.4	33.6		
35.0 SAND. Fine sand. Very minor gravel to 1-1/4 inches.	911.1				5.4	0.0	2.0	3.3	23.3		
40.0 SAND. Very fine to fine sand. No gravel.	906.1										
45.0 SAND & GRAVEL. Fine to very coarse sand. Gravel to 2-1/2 inches.	901.1				33.5	5.1	6.5	21.8	35.6		
55.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.	891.1				34.9	10.3	6.3	18.2	25.6		
60.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.	886.1				28.2	10.0	3.5	14.7	33.8		
62.0 SAND. Fine to medium sand. No gravel.	884.1									Lacustrine sediment	
65.0 SAND. Very fine sand, dirty. No gravel.	881.1										
T.D. 65 ft.											

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

DRILLING LOG

HOLE NO. D3150

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

491,199.93 mE +/- 0.02 m 4,953,149.60 mN +/- 0.02 m

Elevation (ft.): 953.2 +/- 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: 2/26/08 2:10 PM

Drilling Contractor: Braun Intertec

Completed: 2/26/08 3:30 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.5	TOPSOIL. Silty, black.	951.7										Loess	
3.5	SILT. Sandy towards bottom of interval, brown.	949.7											
5.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.	948.2				35.4	14.7	10.7	9.9	35.7		Superior lobe outwash	19.9% + #4
10.0	SAND & GRAVEL. Fine to medium sand. Gravel to 1-3/4 inches.	943.2				12.4	4.4	2.8	5.3	24.5			
15.0	SAND. Fine to coarse sand. Very minor gravel to 1-1/2 inches.	938.2				13.8	3.1	3.4	7.2	30.5			
20.0	SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	933.2				22.0	7.0	4.5	10.5	33.5			
25.0	SAND. Fine to coarse sand. Minor gravel to 2-1/2 inches.	928.2				15.1	0.7	4.1	10.3	31.6			
30.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.	923.2				16.3	3.9	1.9	10.5	30.1			
35.0	SAND. Fine sand. No gravel.	918.2											
40.0	SAND. Very fine to fine sand. No gravel.	913.2											
45.0	SAND. Fine to medium sand. Very minor gravel to 3/4 inch.	908.2											
50.0	SAND. Fine to coarse sand. Very minor gravel to 3/4 inch.	903.2											
55.0	SAND. Fine to coarse sand. Very minor gravel to 1 inch.	898.2											
60.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.	893.2											
65.0	SAND. Fine to coarse sand. Minor gravel to 2 inches.	888.2											
	T.D. 65 ft.												

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

DRILLING LOG

HOLE NO. DD0850

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,799.56 mE +/- 0.02 m 4,950,850.41 mN +/- 0.02 m

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

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

Ground Water Elevation (ft.):

Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 3/4/08 1:20 PM

Drilling Contractor: Braun Intertec

Completed: 3/4/08 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)	Geologic Interpretation	Economic Classification
2.0 TOPSOIL. Silty, black.	936.5									Loess	
2.5 SILT. Brown.	936.0									Superior lobe outwash	22.9% + #4
5.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 1-1/2 inches.	933.5										
10.0 SAND. Fine to medium sand. Very minor gravel to 1-1/2 inches.	928.5				19.7	8.1	5.1	6.6	40.9		
15.0 SAND. Fine to coarse sand. Very minor gravel to 1-3/4 inches.	923.5										
20.0 SAND. Fine to medium sand. Very minor trace gravel to 3/4 inch.	918.5				0.8	0.0	0.0	0.8	25.9		
25.0 SAND. Fine sand. No gravel.	913.5										
30.0 GRAVEL & SAND. Fine to coarse sand. Gravel to 5 inches. Very rocky (drill action) from 25 to 28 feet.	908.5				43.6	6.6	8.5	28.6	39.8		
35.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 2 inches.	903.5				32.2	2.0	7.1	23.0	32.5		
40.0 SAND & GRAVEL. Fine to coarse sand. Gravel to 5 inches.	896.5				39.0	16.4	6.5	16.1	36.5		
42.0 SANDSTONE. Very fine sand, yellowish brown.	895.5									St. Peter Sandstone	

T.D. 43 ft.

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

DRILLING LOG

HOLE NO. DD1050

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88

493,799.76 mE +/- 0.02 m 4,951,049.62 mN +/- 0.02 m

Elevation (ft.): 936.8 +/- 0.1 ft.

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

Ground Water Elevation (ft.):

Site: Snow covered soybean stubble field at natural grade.

Drilling Method: 9-inch flight auger

Started: 3/4/08 3:15 PM

Drilling Contractor: Braun Intertec

Completed: 3/4/08 4:00 PM

Drill Rig: CME-750

Logged By: J.D. Lehr

Depth (ft.)	Graphic Log	Gravel Per Drill Action	Sample Runs	Sampled Intervals	TEST RESULTS (%)					Geologic Interpretation	Economic Classification	
					Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)			
2.0	TOPSOIL. Silty, black.										Loess	
3.0	SILT. Brown.											
5.0	SAND. Fine sand. Very minor gravel to 1/2 inch.											
	SAND. Fine to medium sand. Minor gravel to 2-1/2 inches.											
15.0					20.7	12.0	3.6	5.1	43.4			
	SAND. Fine to coarse sand. Minor gravel to 1-3/4 inches.				29.7	15.5	9.1	5.1	34.2			
20.0					18.7	2.9	6.3	9.5	28.9			
	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.				28.4	16.0	4.2	8.2	33.7		Superior lobe outwash	
25.0					31.0	5.9	7.7	17.5	26.2			
	SAND & GRAVEL. Fine to coarse sand. Gravel to 3 inches.				46.9	6.2	6.0	34.7	48.2			
30.0												
	GRAVEL & SAND. Fine to very coarse sand, slightly dirty. Gravel to 3 inches.											
37.0												
	GRAVEL & SAND. Fine to very coarse sand, slightly dirty. Gravel to 3 inches.											
40.0												
	SILT. Sandy (very fine), brown.										Lacustrine sediment	
	T.D. 40 ft.											

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

DRILLING LOG

HOLE NO. DD1250

Page 1 of 1

Property: UMore Park Property

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

UTM Zone 15/NAD83/NAVD88
 493,800.30 mE +/- 0.02 m 4,951,249.56 mN +/- 0.02 m
 Elevation (ft.): 939.4 +/- 0.1 ft.
 Ground Water Depth (ft.): 59.0
 Ground Water Elevation (ft.): 880.4
 Site: Snow covered field at natural grade.

Drilling Method: 9-inch flight auger Started: 3/5/08 8:55 AM
 Drilling Contractor: Braun Intertec Completed: 3/5/08 10:15 AM
 Drill Rig: CME-750 Logged By: J.D. Lehr

		DRILLING & SAMPLING					TEST RESULTS (%)					Geologic Interpretation	Economic Classification
Graphic Log	Depth (ft.)	Gravel Per Drill Action	Sample Runs	Sampled Intervals	Total + #4 Sieve	+ 1.5 Inch	1.5 Inch to 3/4 Inch	3/4 Inch to #4 Sieve	Sample Wt. (lbs)				
1.0	TOPSOIL. Silty, black.										Loess		
2.0	SILT. Brown.										Superior lobe outwash	20.2 % + #4	
5.0	SAND. Fine sand. Very minor trace gravel to 1 inch.												
10.0	SAND. Fine sand. Very minor gravel to 1-1/2 inches.				7.3	0.8	2.6	4.0	35.2				
15.0	SAND. Fine to medium sand. Very minor gravel to 1 inch.												
20.0	SAND. Fine to medium sand. Very minor gravel to 2-1/2 inches.				13.3	5.2	2.8	5.4	22.2				
25.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 3 inches. Very rocky (drill action) from 23 to 25 feet.				32.9	9.4	5.9	17.6	30.9				
30.0	SAND & GRAVEL. Fine to very coarse sand. Gravel to 1-1/2 inches.				31.7	0.0	5.7	26.1	35.3				
35.0	SAND & GRAVEL. Fine to coarse sand. Gravel to 6 inches.				38.1	10.0	4.1	23.9	34.3				
40.0	SAND. Fine to coarse sand. Minor gravel to 3-1/2 inches.				21.0	3.9	4.0	13.1	27.4				
45.0	SAND. Fine to coarse sand. Minor gravel to 1-1/2 inches.				20.4	0.0	3.7	16.7	27.1				
50.0	SAND. Fine sand, slightly dirty & slightly iron stained. Minor gravel to 2 inches.				17.1	2.5	3.3	11.3	20.8		Older outwash		
55.0	SAND. Fine sand, very dirty to extremely dirty. Minor gravel to 1-1/2 inches.												
60.0											Lacustrine sediment		
64.0	SAND & GRAVEL. Fine to very coarse sand, very dirty. Gravel to 1-1/2 inches.												
65.0	CLAY. Red, hard.												
	T.D. 65 ft.												

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