



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH SECTION  
SUBSURFACE INFORMATION

BORING LOG  
MILTON  
IM 089-3(68)  
I-89 SB MM 101.8 & MM102.3

Boring No.: B-101  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/09/11 Date Finished: 5/10/11  
VTSPG NAD83: N 783246.76 ft E 1473751.48 ft  
Station: 639+65 Offset: -13.00  
Ground Elevation: 278.5 ft

Casing Type: WB I.D.: 3 in Hammer Wt: N.A. Hammer Fall: N.A. Hammer/Rod Type: Auto/AWJ Rig: CME 55 TRACK  
Sampler Type: SS I.D.: 1.5 in Hammer Wt: 140 lb. Hammer Fall: 30 in. Auto/AWJ CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
05/10/11	10.4	AM
05/11/11	14.1	From Well.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (minutes/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 0.8		Asphalt Pavement, 0.0 ft - 0.8 ft											
0.8 - 1.0		A-1-a, SaGr (possible crushed sub-base material), brn, Moist, Rec. = 1.0 ft, Lost water at 3.0 feet. BXDC from 2.2 to 3.0 feet (gravel)					25-22-13-11 (35)	5.4	67.6	24.9	7.5		
1.0 - 1.5		A-1-b, SaSiGr, gry, Moist, Rec. = 0.5 ft, Lots of Broken Rock was within sample.					8-8-12-17 (20)	6.4	53.2	23.2	23.6		
1.5 - 2.7		A-4, Si, brn, Moist, Rec. = 1.2 ft					2-3-3-2 (6)	23.9	0.5	3.1	96.4		
2.7 - 4.2		A-4, Si, brn, MTW, Rec. = 1.5 ft					WH-WH-1-2 (1)	30.8		0.7	99.3	29	3
4.2 - 5.9		A-4, Si, brn, MTW, Rec. = 1.7 ft					WH-WH-1-2 (1)	30.8		0.8	99.2	29	3
5.9 - 7.9		A-4, Si, gry, MTW, Rec. = 2.0 ft					WH-WH-WH (WH)	28.4	1.0	1.0	98.0	26	3
7.9 - 9.9		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft					WH-4-3-2 (7)	50.3	0.1	1.1	98.8	74	46
9.9 - 10.2		Visual Classification, Silty Clay with Gravel, gry, MTW, Rec. = 0.3 ft, Insufficient sample for any testing. This material continued to 38.0 feet.					WH-2-2-3 (4)						
10.2 - 11.7		A-4, GrSaSi (HP), gry, Moist, Rec. = 1.5 ft					10-40-45-43 (85)	8.3	23.1	35.0	41.9		
11.7 - 51.4		46.4 ft - 51.4 ft, Gray, Carbonaceous Meta-Shale, Soft, Unweathered, Good rock, BXMDC, RMR=61		1 (70)	100 (100)	6 (8) (9) (8) (15)							
51.4		Hole stopped @ 51.4 ft											
51.4 - 60		Remarks: 1. Installed Monitoring Well to 36.1 ft. 2. 30.0 feet of screen pipe. 3. 5.9 feet of solid pipe. 4. Top of well is 0.2 feet below ground level.											

BORING LOG 2 MILTON IM 089-3(68).GPJ VERMONT AOT.GDT 7/20/11

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



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MILTON  
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I-89 SB MM 101.8 & MM102.3

Boring No.: B-102  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/11/11 Date Finished: 5/13/11  
VTSPG NAD83: N 783225.97 ft E 1473745.71 ft  
Station: 639+45 Offset: -21.00  
Ground Elevation: 278.15 ft

Casing Type: WB  
I.D.: 4 in  
Sampler Type: SS  
I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
		No accurate data.
		Casing in clay.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
	x x x	Field Note:, Fill Material (Gr), NXDC								
		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft		2-4-4-4 (8)	14.6	20.0	63.4	16.6		
		Field Note:, NXDC, Gravel								
		Mostly Broken Rock, gry, Moist, Rec. = 0.6 ft, 7.0 ft - 9.0 ft		5-6-5-7 (11)	8.9	72.2	16.5	11.3		
10		Field Note:, NXDC, Gravel								
		A-4, Si, brn-gry, MTW, Rec. = 1.0 ft		5-3-3-4 (6)	22.5	8.0	13.4	78.6		
		A-2-4, Sa, brn, MTW, Rec. = 1.0 ft		1-2-2-2 (4)	20.5	0.6	87.0	12.4		
20		A-4, Si, gry, MTW, Rec. = 1.6 ft		2-3-3-3 (6)	27.1		1.2	98.8	29	4
		No Recovery in Shelby Tube, 24.0 ft - 26.0 ft								
		A-4, Si, gry, MTW, Rec. = 1.4 ft		WH-WH-WH-WH (WH)	32.3		0.6	99.4	27	4
30		Shelby Tube, gry, MTW, Rec. = 2.0 ft, 29.0 ft - 31.0 ft								
		A-7-6, Cl, gry, MTW, Rec. = 1.99 ft			53.4		0.3	99.7	72	43
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft		WH-WH-2-5 (2)	46.3	0.5	1.2	98.3	61	37
		A-4, CISi with Gravely Sand, gry, MTW, Rec. = 1.0 ft		1-4-3-2 (7)	24.9	22.3	29.1	48.6	23	9
40		Field Note:, NXDC, Gravel								
		A-4, GrSiSa, gry, MTW, Rec. = 1.0 ft		4-4-5-46 (9)	12.9	20.7	39.8	39.5		
		Field Note:, Probable Bedrock at 45.5 feet, Cored 2 feet of rock to seat inclinometer.								
50		Hole stopped @ 47.5 ft Probable Bedrock								
		Remarks: 1. Installed Inclinometer Well to 46.4 ft. 2. Top of well is 2.5 feet above ground level.								

BORING LOG 2 MILTON IM 089-3(68).GPJ VERMONT AOT.GDT 7/20/11

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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MILTON  
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I-89 SB MM 101.8 & MM102.3

Boring No.: B-103  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW, STAAB  
Date Started: 5/16/11 Date Finished: 5/19/11  
VTSPG NAD83: N 783230.08 ft E 1473707.03 ft  
Station: 639+54 Offset: -59.00  
Ground Elevation: 263.19 ft

Casing Type: WB  
I.D.: 4 in  
Hammer Wt: N.A.  
Hammer Fall: N.A.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK  
Sampler Type: SS  
I.D.: 1.5 in  
140 lb.  
30 in.  
Auto/AWJ  
CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
05/16/11	1.4	
05/19/11	1.0	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-4, Si, gry, Moist, Rec. = 1.2 ft		WH-2-2 (2)	29.9	0.1	18.2	81.7		
		A-4, Si, gry, Wet, Rec. = 1.4 ft		2-3-3-3 (6)	28.1		10.8	89.2		
		A-4, Si, gry, Wet, Rec. = 1.2 ft		1-3-2-3 (5)	25.6		2.0	98.0	28	2
		A-4, Si, gry, Wet, Rec. = 1.5 ft		2-2-2-2 (4)	27.0		1.7	98.3	28	2
10		Tube sample, gry, Wet, Rec. = 1.8 ft, 8.0 ft - 10.0 ft								
		A-4, Si, gry, MTW, Rec. = 1.5 ft		2-2-3-2 (5)	28.3		0.8	99.2		
		Tube sample, gry, MTW, Rec. = 1.5 ft, 13.0 ft - 15.0 ft								
		A-4, Si, gry, MTW, Rec. = 1.4 ft		2-3-2-3 (5)	26.3		0.7	99.3	25	2
		Tube sample, gry, MTW, Rec. = 1.9 ft, 18.0 ft - 20.0 ft								
20		A-4, Si, gry, MTW, Rec. = 2.0 ft		1-2-3-4 (5)	26.0		0.6	99.4	24	2
		A-4, Si, gry, MTW, Rec. = 1.8 ft, Material from Triaxial sample "A"			25.0		0.6	99.4	25	2
		A-4, Si, gry, MTW, Material from Triaxial sample "C"			39.1		0.4	99.6	26	2
		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft		WH-2-2 (2)	40.3	0.3	4.2	95.5	51	28
		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft		WH-1-1 (1)	48.8	1.8	2.5	95.7	57	32
30		A-4, ClSi, gry, MTW, Rec. = 1.5 ft, Small artesian at 33.0 ft.		2-2-2-2 (4)	27.4	18.4	26.5	55.1	23	10
		A-2-4, SiSa, gry, MTW, Rec. = 1.3 ft		5-11-10-13 (21)	12.4	18.8	46.1	35.1		
		Field Note: When the casing was at 38.0', flowing water was recorded up to 13.5' above the ground surface.								
40		A-1-b, SaGr, gry, MTW, Rec. = 1.0 ft		11-19-22-28 (41)	7.5	49.0	33.0	18.0		
		Field Note: NXDC, Probable Bedrock at 42.0 ft.								
		Hole stopped @ 45.5 ft								
50		Remarks: 1. Installed Inclinometer Well to 44.2 ft. 2. Top of well is 2.5 feet above ground level.								

BORING LOG 2 MILTON IM 089-3(68).GPJ VERMONT AOT.GDT 7/29/11

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



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BORING LOG  
MILTON  
IM 089-3(68)  
I-89 SB MM 101.8 & MM102.3

Boring No.: B-104  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/23/11 Date Finished: 5/23/11  
VTSPG NAD83: N 783238.66 ft E 1473803.54 ft  
Station: 639+51 Offset: 38.00  
Ground Elevation: 275.3 ft

Casing Type: WB  
I.D.: 4 in  
Sampler Type: SS  
I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
		None taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-a, SaGr, gry, Moist, Rec. = 1.4 ft, Possible ledge fill material.	4-6-9-12 (15)	5.7	62.6	24.3	13.1		
2.5		A-4, Si, gry, Moist, Rec. = 1.0 ft	5-7-7-8 (14)	19.8	4.1	6.0	89.9	28	4
5.0		A-7-6, Cl, brn, MTW, Rec. = 1.7 ft	2-2-8-R@1.0" (10)	46.9	8.7	17.2	74.1	64	35
7.5		Field Note:, NXDC, Probable Bedrock							
		Hole stopped @ 7.7 ft							
10.0									
12.5									
15.0									
17.5									

BORING LOG 2 MILTON IM 089-3(68).GPJ VERMONT AOT.GDT 7/29/11

Notes:  
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MILTON  
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I-89 SB MM 101.8 & MM102.3

Boring No.: B-105  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 6/02/11 Date Finished: 6/03/11  
VTSPG NAD83: N 780640.35 ft E 1473787.35 ft  
Station: 613+32 Offset: -25.00  
Ground Elevation: 209.6 ft

Casing Type: WB I.D.: 4 in  
Sampler Type: SS I.D.: 1.5 in  
Hammer Wt: N.A. Hammer Fall: N.A.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.46

Groundwater Observations  
Date Depth (ft) Notes  
None Taken  
Casing full of water.  
Clay held water.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
0.0 - 2.5		A-1-a, SaGr, white-gray, Moist, Rec. = 0.7 ft, Sample was mostly Crushed Limestone.		2-2-2-2 (4)	2.3	65.4	28.1	6.5			
2.5 - 3.0		Field Note:, No Recovery		WH-WH-1 (WH)							
3.0 - 5.0		A-1-a, Gr, white, Moist, Rec. = 0.3 ft, Sample was Crushed Limestone.		3-2-2-2 (4)	5.3	83.0	14.7	2.3			
5.0 - 7.5		A-1-a, SaGr, white-brn, Moist, Rec. = 0.4 ft, Crushed Limestone was within sample.		1-2-1-1 (3)	9.3	57.3	32.6	10.1			
7.5 - 10.0		A-4, SiSa, brn, MTW, Rec. = 0.9 ft		3-2-2-2 (4)	20.1	4.9	48.8	46.3			
10.0 - 12.5		A-7-6, Cl, gry-brn, MTW, Rec. = 0.8 ft		3-2-2-2 (4)	46.5	0.3	2.3	97.4	61	32	
12.5 - 15.0		Shelby Tube, gry-brn, MTW, Rec. = 2.0 ft, 12.0 ft - 14.0 ft									
15.0 - 17.5		A-7-6, Cl, brn, Wet, Rec. = 1.0 ft	2-R@6.0"	34.1	3.1	8.3	88.6	43	21		
17.5 - 18.0		Field Note:, NXDC, Probable Bedrock at 15.0 ft.									
17.5 - 18.0		Hole stopped @ 17.0 ft Probable Bedrock									
		Remarks: 1. Installed Inclinometer Well to 16.8 ft. 2. Top of well is 2.5 feet above ground level.									

BORING LOG 2 MILTON IM 089-3(68).GPJ VERMONT AOT.GDT 7/20/11

Notes:  
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2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.





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BORING LOG  
MILTON  
IM 089-3(68)  
I-89 SB MM 101.8 & MM102.3

Boring No.: B-107  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/26/11 Date Finished: 5/26/11  
VTSPG NAD83: N 780702.95 ft E 1473777.07 ft  
Station: 613+93 Offset: -46.00  
Ground Elevation: 199.6 ft

Casing Type: WB  
I.D.: 4 in  
Sampler Type: SS  
I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
0.0 - 0.8		A-4, SiSa, brn, Moist, Rec. = 0.8 ft		WH-1-1-2 (2)	22.9	9.6	51.4	39.0			
0.8 - 2.5		Field Note: No Recovery, Appears to be silt.		WH-WH-WH (WH)							
2.5 - 4.0		A-4, Si, brn, Moist, Rec. = 1.0 ft		WH-3-4-5 (7)	19.0	12.4	14.4	73.2	23	5	
4.0 - 5.7		A-4, Si, gry-brn, Moist, Rec. = 1.7 ft		7-9-9-8 (18)	17.4	0.2	18.8	81.0	25	4	
5.7 - 6.7		A-4, SaGrSi, gry, MTW, Rec. = 1.0 ft		2-2-R@6.0" (R)	18.2	28.9	26.4	44.7	25	6	
6.7 - 9.5		Hole stopped @ 9.5 ft Probable Bedrock									
9.5 - 12.5		Remarks: 1. Installed Monitoring Well to 9.0 ft. 2. 5.0 feet of screen pipe. 3. 6.5 feet of solid pipe. 4. Top of well is 2.5 feet above ground level.									
12.5 - 15.0											
15.0 - 17.5											

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Notes:  
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Boring No.: B-108  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/23/11 Date Finished: 5/23/11  
VTSPG NAD83: N 780631.06 ft E 1473841.45 ft  
Station: 613+32 Offset: 31.00  
Ground Elevation: 208.6 ft

Casing Type: WB  
I.D.: 4 in  
Sampler Type: SS  
I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
		None taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-3, Sa, brn, Moist, Rec. = 1.5 ft	1-1-2-2 (3)	9.1	7.6	81.9	10.5
2.5		A-3, Sa, brn, Moist, Rec. = 1.8 ft	1-2-1-2 (3)	8.8	4.1	88.8	7.1
		A-3, Sa, brn, Moist, Rec. = 1.5 ft	1-1-1-1 (2)	11.5	0.7	90.1	9.2
5.0		A-3, Sa, brn, MTW, Rec. = 1.2 ft	WH-WH-WH-2 (WH)	12.2	0.6	90.1	9.3
7.5		A-1-b, GrSa, brn, MTW, Rec. = 1.2 ft, Sample was mostly Broken Rock.	4-3-R@2.5" (R)	14.3	40.2	51.2	8.6
10.0		Hole stopped @ 9.2 ft Probable Bedrock					
12.5							
15.0							
17.5							

BORING LOG 2 MILTON IM 089-3(68).GPJ VERMONT AOT.GDT 7/29/11

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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Boring No.: B-109  
Page No.: 1 of 1  
Pin No.: 11A046  
Checked By: CEE

Boring Crew: PORTER, GARROW, WELLS  
Date Started: 6/15/11 Date Finished: 6/16/11  
VTSPG NAD83: N 783226.46 ft E 1473646.05 ft  
Station: 639+58 Offset: -120.00  
Ground Elevation: 252.0 ft

Casing Type: WB  
I.D.: 4 in  
Sampler Type: SS  
I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
		See Remarks.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5	[Diagonal Hatching]	A-4, Si, brn, Moist, Rec. = 1.7 ft	[Well Diagram]	WH-1-3-6 (4)	22.9		12.7	87.3		
		A-4, Si, brn, Moist, Rec. = 1.7 ft		8-8-8-8 (16)	16.2		18.9	81.1		
		A-4, Si, brn-gry, MTW, Rec. = 2.0 ft		6-5-5-5 (10)	22.6		11.1	88.9	25	2
		A-4, Si, brn, MTW, Rec. = 2.0 ft		3-3-3-3 (6)	28.2		1.3	98.7	29	3
		A-4, ClSi, brn, MTW, Rec. = 2.0 ft		3-2-2-3 (4)	28.6		3.0	97.0	32	8
10	[Diagonal Hatching]	A-6, SiCl, brn, MTW, Rec. = 2.0 ft	[Well Diagram]	WH-2-2-2 (4)	32.2		2.6	97.4	34	11
		A-7-6, Cl, brn, MTW, Rec. = 2.0 ft		WH-1-2-1 (3)	42.3	0.8	2.6	96.6	54	30
15	[Diagonal Hatching]	A-7-6, Cl, gry, MTW, Rec. = 2.0 ft	[Well Diagram]	WH-1-1 (1)	41.4	0.3	3.3	96.4	50	27
		Shelby Tube (Clay), gry, MTW, Rec. = 1.8 ft, 16.0 ft - 18.0 ft								
20	[Diagonal Hatching]	A-7-6, Cl, gry, MTW, Rec. = 2.0 ft, Material from Triaxial "B" sample.	[Well Diagram]		50.0		0.8	99.2	67	41
		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft		WH-WH-WH (WH)	58.2		0.8	99.2	69	42
25	[Diagonal Hatching]		[Well Diagram]							
30	[Diagonal Hatching]	Field Note: NXDC, Probable Bedrock at 27.0 ft.	[Well Diagram]							
		Hole stopped @ 29.0 ft Probable Bedrock								
35	[Diagonal Hatching]	Remarks: 1. Installed Inclinerometer Well to 29.0 ft. 2. Top of well is 2.5 feet above ground level.	[Well Diagram]							
		Ground water table: a. Artesian Condition: Overflow on 06/16/11 (drilled to 29.0', water stabilized at 3.5' above ground)								

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Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.