



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-205A

TOTAL DEPTH: 166.5 ft.

PROJECT INFORMATION

PROJECT: Phase 2 Wells and April LTM Report

PROJECT NO.: 3202-019

SITE LOCATION: MI

PROJECT MANAGER: T. Holmes

FIELD STAFF: J. Anstaett

BOREHOLE STARTED: 4/9/2007 13:00

BOREHOLE FINISHED: 4/10/2007 09:40

DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: J. Asua

DRILLING METHOD/RIG: Sonic

BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 292.32 (ft, msl)

WATER DEPTH/ DATE: 94.64-ft. toc -5/4/07

BOREHOLE USE: Monitoring Well

NOTES:

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		Gravel and crushed stone		Grouted Annulus
		CL Silty clay - dark yellowish brown 10YR (4/4), low plasticity, moist.		
10		CH Silty clay - dark yellowish brown 10YR (4/4), medium plasticity, moist.		
20		CL Silty clay - brownish yellow 10YR (6/6), with gray mottling, medium plasticity, moist.		
30		CL Sandy clay - red 2.5YR (4/6), with some gravel medium plasticity, fine grained sand, sub-rounded gravel, moist.		

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Depth	Soil Symbol	Soil Description	Well Completion		Well Description
		SP Clayey sand - reddish yellow 5YR (6/8), with some gravel, fine grained sand, sub-rounded gravel, poorly graded, moist.			
		SP Sand - yellowish red 5YR (5/8), fine to coarse grained sand, poorly graded, moist.			
40		SW Silty sand - reddish yellow 7.5YR (8/6), with few gravel, fine to coarse grained sand, sub-rounded gravel, well graded, dry.			
		SP Sand - yellowish red 5YR (5/8), fine to coarse grained sand, poorly graded, moist.			
50		SW Gravely sand - reddish yellow 5YR (6/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.			
		SW Gravely sand - yellow 10YR (7/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.			
60					

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
70		SW Gravely sand - yellowish red 5YR (5/8), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
		SP Silty sand - very pale brown 10YR (8/2), fine grained sand, poorly graded, moist.		
80		SW Gravely sand - brownish yellow 10YR (6/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.		
		SP Silty sand - very pale brown 10YR (8/3), fine grained sand, poorly graded, dry.		
		SM Sandy Silt - light gray 5YR (7/1), fine to medium grained sand, possible siltstone, poorly graded, dry.		
90				

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		SW Gravely sand - yellow 10YR (7/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.	94.64- ft.	
		SW Gravely sand - yellowish brown 10YR (5/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.		
100		SW Gravely sand - dark grayish brown 10YR (4/2), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
110		SW Gravely sand - red 2.5YR (5/8), trace cobbles, fine to coarse grained sand, sub-rounded gravel, sub-rounded cobbles, well graded, wet.		
		SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
120				

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
130		SW Silty sand - reddish yellow 7.5YR (7/8), few gravel, fine to medium grained sand, sub-rounded gravel, well graded, wet.		Bentonite Plug
		SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
		SW Silty sand - reddish yellow 7.5YR (6/8), with few gravel, fine to medium grained sand, sub-rounded gravel, well graded, wet.		
		GW Sandy gravel - pale yellow 2.5YR (8/2), trace clay, coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.		
140		SW Gravely sand - olive yellow 2.5Y (6/8), medium to coarse grained sand, sub-rounded gravel, well graded, moist.		Sand Pack
		SP Silty sand - pinkish gray 7.5YR (7/2), fine grained sand, poorly graded, wet.		
		SP Silty sand - pinkish gray 7.5YR (7/2), fine grained sand, poorly graded, wet.		
150				Screened Interval

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