



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-203A

TOTAL DEPTH: 176 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: 3/26/2007 09:15

BOREHOLE FINISHED: 3/26/2007 16:30

DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: J. Asua

DRILLING METHOD/RIG: J. Asua

BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 290.78 (ft, msl)

WATER DEPTH/ DATE: 91.79-ft. toc -5/4/07

BOREHOLE USE: Monitoring Well

NOTES:

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		Grass and roots.		Grouted Annulus
		CL Silty clay - brown 7.5YR (5/4), high plasticity, moist.		
10				
		CL Sandy clay with gray modeling - dark red 10R (3/6), fine grained sand, low plasticity, moist.		
20				
		SW Clayey sand with gravel - reddish yellow 7.5YR (6/8), fine to medium grained sand, sub-rounded gravel, well graded, moist.		
		SW Clayey sand with some gravel - reddish yellow 5YR (6/8), fine to medium grained sand, sub-rounded gravel, well graded, moist.		
30				

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Depth	Soil Symbol	Soil Description	Well Completion		Well Description
40		CL Sandy clay - yellow 5YR (6/8), fine grained sand, medium plasticity, wet.			
50		SP Clayey sand - yellowish red 5YR (5/6), fine grained sand, poorly graded, moist.			
		SM Silt with trace of gravel - pink 7.5YR (8/4), possible silt stone, sub-rounded gravel, dry.			
60		SW Gravely sand - brownish yellow 10YR (6/8), fine to medium grained sand, sub-rounded to sub-angular gravel, well graded, moist.			

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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 - yellow 10YR (7/8), fine grained sand, poorly graded, moist.		
		SP Silty sand - light reddish gray 2.5YR (7/1), fine grained sand, poorly graded, moist.		
		SW Gravely sand - yellowish red 5YR (5/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.		
80				
		SP Silty sand - very pale brown 10YR (8/3), fine grained sand, poorly graded, wet.		
		SW Gravely sand - pinkish gray 5YR (7/2), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
90				

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
			91.79 ft.	
		MH Silt - light greenish gray (8/1), possible silt stone, dry.		
		SP Silty sand with some gravel - reddish yellow 7.5YR (8/6), fine grained sand, sub-rounded gravel, poorly graded, wet.		
		SP Silty sand with some gravel, reddish yellow 7.5YR (8/6), fine grained sand, sub-rounded gravel, poorly graded, wet.		
100		SW Gravely sand with trace of cobbles - dark red 2.5YR (3/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, conglomerate cobbles, well graded, wet.		
110		SW Gravely sand - strong brown 7.5YR (4/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
120		SW Gravely sand with trace of cobbles - yellowish red 5YR (5/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.		

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
130		SP Silty sand with some clay - pinkish white 10R (8/2), fine grained sand, poorly graded, wet.		
				Bentonite Plug
		SW Gravely sand - yellowish red 5YR (5/8), fine to medium grained sand, sub-rounded gravel, well graded, wet.		Sand Pack
140		SP Silty sand with some clay - yellow 2.5Y (8/6), fine grained sand, poorly graded, wet.		
		SP Silty sand - pale yellow 2.5Y (8/4), fine grained sand, poorly graded, wet.		
150				Screened Interval

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