



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-219

TOTAL DEPTH: 126 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: 4/21/2007 12:25

BOREHOLE FINISHED: 4/21/2007 17:05

## DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: J. Asua

DRILLING METHOD/RIG: Sonic


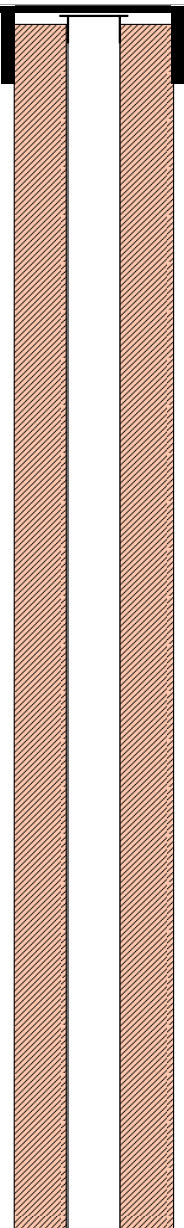





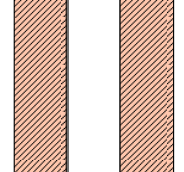

BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 295.07 (ft, msl)

WATER DEPTH/ DATE: 92.19-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 - dark yellowish brown 10YR (4/4), low plasticity, moist.		
10		CH Silty clay - dark yellowish brown 10YR (4/4), medium plasticity, moist.		
		CL Sandy clay - yellowish brown 10YR (5/6), medium plasticity, fine grained sand, trace medium grained sand, moist.		
20		CL Sandy clay - dark red 10R (3/6), with gray mottling, fine grained sand, low plasticity, moist.		
		CL Sandy clay - dark red 10R (3/6), with gray mottling, fine grained sand, low plasticity, moist.		Grouted Annulus
30		CL Sandy clay - dark red 10R (3/6), with gray mottling, fine grained sand, low plasticity, moist.		

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<b>SP</b> Clayey sand - red 2.5YR (5/8), fine grained sand, poorly graded, moist.		
40		<b>SP</b> Silty sand - brownish yellow 10YR (6/6), fine grained sand, poorly graded, dry.		
50		<b>SP</b> Silty sand - yellow 10YR (7/6), fine grained sand trace medium grained sand, poorly graded, dry.		
60		<b>MH</b> Sandy Silt - pale yellow 2.5Y (8/2), fine grained sand, possible silt stone, dry.		

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
70		<b>SW</b> Gravely sand - reddish yellow 7.5YR (6/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.		
		<b>MH</b> Sandy silt - gray 7.5YR (5/1), fine to medium grained sand, possible silt stone, dry.		
80		<b>SW</b> Sand - reddish yellow 7.5YR (7/8), with some gravel, fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.		
90		<b>SW</b> Sand - yellow 10YR (7/8), with some gravel, fine to medium grained sand, some coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist.		Bentonite Plug

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
			<p>92.19- ft.</p>	Sand Pack
100		<b>SW</b> Gravely sand - yellowish brown 10YR (6/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.		Screened Interval
		<b>SP</b> Silty sand - very pale brown 10YR (8/3), fine grained sand, poorly graded, wet.		
		<b>SP</b> Silty sand - yellow 10YR (8/6), fine grained sand, poorly graded, wet.		
110		<b>CL</b> Silty clay - light gray 2.5Y (7/1), with brown mottling, low plasticity, moist.		
		<b>CL</b> Silty clay - light gray 2.5Y (7/1), with brown mottling, low plasticity, moist.		
120		<b>CL</b> Silty clay - dark gray 2.5Y (4/1), medium plasticity, hard, moist.		

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