



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-204A

TOTAL DEPTH: 157 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: 4/6/2007 08:30

BOREHOLE FINISHED: 4/6/2007 15:30

DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: J. Asua

DRILLING METHOD/RIG: Sonic

BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 292.49 (ft, msl)

WATER DEPTH/ DATE: 94.32-ft. toc -5/4/07

BOREHOLE USE: Monitoring Well

NOTES:

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		Gravel		Grouted Annulus
	CL	Clay - dark yellowish brown 10YR (4/4), medium plasticity, moist.		
	CL	Silty clay - dark gray 10YR (4/1), low plasticity, moist.		
10	CL	Silty clay - dark yellowish brown 10YR (4/6), low plasticity, moist.		
20	CL	Silty clay - 10YR (5/8), medium plasticity, moist.		
30	CL	Sandy Clay - yellowish red 5YR (5/6), with gray mottling, fine grained sand, low plasticity, moist.		

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Depth	Soil Symbol	Soil Description	Well Completion		Well Description
	CL	Clayey sand - yellowish red 5YR (5/8), fine grained sand, poorly graded, moist.			
40		SP Silty sand - reddish yellow 7.5YR (6/8), with some gravel, fine to coarse grained sand, sub-rounded gravel, poorly graded, moist.			
50		MH Silty sand - pink 7.5YR (7/3), few gravel, fine grained sand, sub-rounded gravel, dry.			
60		SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse 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, moist.		
		SP Silty sand - reddish yellow 5YR (6/8), fine grained sand, poorly graded, moist.		
		CH Clay - pale red 10R (6/4), high plasticity, moist.		
80		SP Silty sand - pink 10R (8/4), fine grained sand, poorly graded, dry.		
		SP Silty sand - pinkish white 7.5YR (8/2), with some gravel, fine to coarse grained sand, sub-rounded gravel, poorly graded, moist.		
90				

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
			<p>94.32- ft.</p>	
100		<p>SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.</p>		
		<p>SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.</p>		
110		<p>SW Silty sand with gravel - very pale brown 10YR (7/3), fine to coarse grained sand, sub-rounded gravel, well graded, wet.</p>		
		<p>SW Gravely sand - strong brown 7.5YR (5/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet.</p>		
120				

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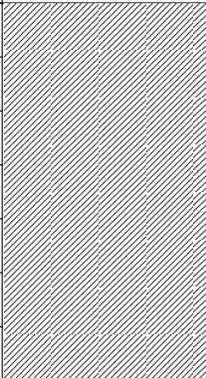
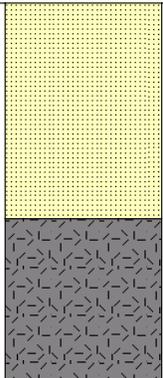
Depth	Soil Symbol	Soil Description	Well Completion	Well Description
				Bentonite Plug
130		SW Gravely sand - reddish brown 5YR (5/4), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
		SP Silty sand - pinkish gray 5YR (7/2), fine grained sand, poorly graded, wet.		Screened Interval
		SP Silty sand - light gray 10YR (7/1), fine grained sand, poorly graded, trace of clay, wet.		Sand Pack
140		SW Gravely sand - very pale brown 10YR (7/4), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
		SP Silty sand - light gray 10YR (7/1), fine grained sand, poorly graded, wet.		
		SW Gravely sand - reddish brown 5YR (5/4), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
150				



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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<p>CL Clay - dark gray 10YR (4/1), medium plasticity, hard, moist.</p>		
<p>160</p> <p>170</p> <p>180</p>		<p>End of Log</p>		