



MACTEC Engineering and Consulting
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FIELD BOREHOLE LOG


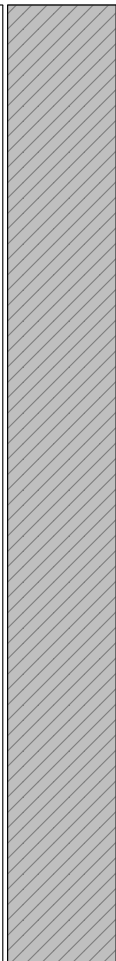

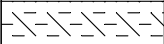
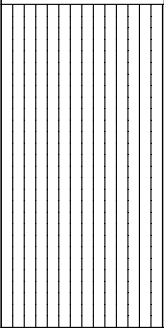
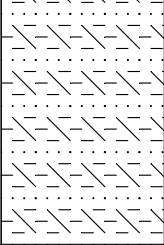

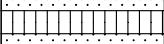
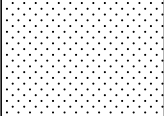
BOREHOLE NO.: **MW-143**

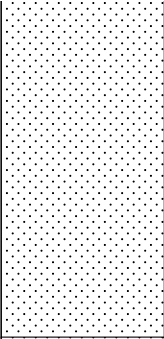
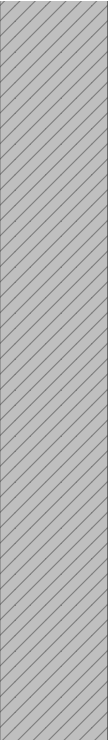

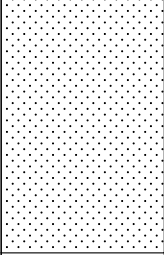

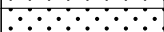
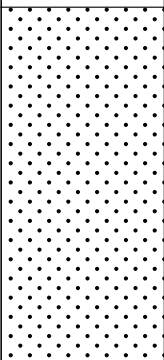
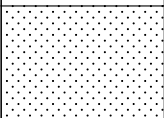
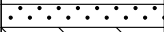
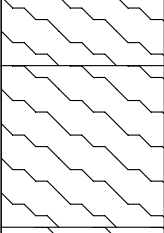

TOTAL DEPTH: **106**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	DDMT	DRILLING CO.:	ProSonic
SITE LOCATION:	Memphis, TN	DRILLER:	Adam Marshall
JOB NO.:	6301-04-0002	RIG TYPE:	RotoSonic
LOGGED BY:	Kevin Arnold/Bill Payne	TOP OF CASING ELEVATION:	290.56'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	290.74'
DATE DRILLED:	5/12/04		

NOTES:

- 1) Drilling technique: 0 to 106 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 93.8 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/25/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION			WELL DESCRIPTION
0		Fill	coarse GRAVEL and trace coarse SAND, fill	0.0				Grouted Annulus
-5	 	CL ML	brown to yellowish orange silty CLAY, medium stiff, low plasticity light brown to yellowish orange clayey SILT, medium stiff, low plasticity	0.0				
-10				0.0				
-15				0.0				
-20		CL	light brown, yellowish orange silty CLAY, low to medium plasticity, medium stiff	0.0				
-25				0.0				
-30		SP	yellowish orange, brown, fine grain SAND with coarse size chert nodules	0.0				
-35	 	ML SP	fine sandy SILT trace clay with rounded chert nodules, medium stiff yellowish orange, brown, fine grain SAND trace rounded chert nodules, loose	0.0				
-40				0.0				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP		0.0			
-50				0.0			
-55				0.0			
-60		SW	yellowish orange, brown fine grain SAND with fine to coarse gravel-sized chert nodules	0.0			
-65				0.0			
-70			brown, fine to coarse grain SAND with some chert	0.0			
-75		SW	brown, fine to coarse grain SAND with some clay	0.0			
-80		SW	yellowish-brown, fine to coarse grain SAND with fine quartz gravel; interbedded clay lenses 73.2'-73.4' and 80-80.5'	0.0			
-85				0.0			
-90		SP	brown to very light brown, fine grain SAND with some fine gravel	0.0			
-95		SW	brown, fine to coarse grain SAND and some fine to coarse gravel	NA			
-100		CH	dark gray CLAY with some reddish brown streaks from 92.5' to 95.5'	NA			
-105		CH	dark gray CLAY with some reddish brown streaks from 92.5' to 95.5'	NA			
		CH	dark gray silty CLAY	NA			
			Boring Terminated at 106 feet bgs	NA			

Bentonite Seal
Sand Pack /
Screened Interval



Bentonite Plug