



MACTEC Engineering and Consulting
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FIELD BOREHOLE LOG

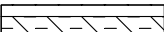
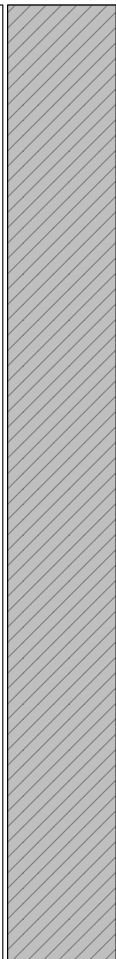

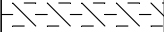
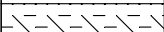
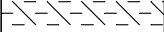



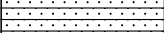
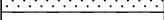
BOREHOLE NO.: **DR1-6**

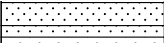


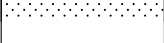

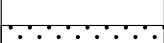


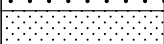
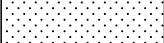

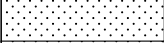



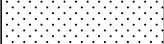

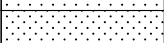


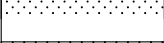



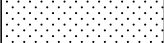

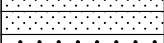


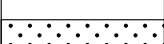






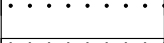





TOTAL DEPTH: **146**

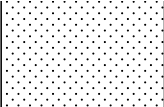
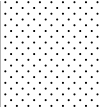
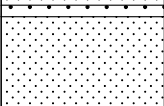
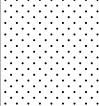
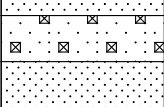
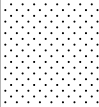
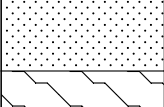
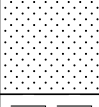
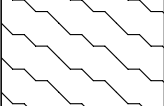
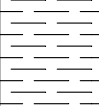


PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	DDMT	DRILLING CO.:	ProSonic
SITE LOCATION:	Memphis, TN	DRILLER:	David Wilcox
JOB NO.:	6301-04-0002	RIG TYPE:	RotoSonic
LOGGED BY:	Amy Callaway	TOP OF CASING ELEVATION:	292.98'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	293.44'
DATE DRILLED:	6/19/04		

NOTES:

- 1) Drilling technique: 0 to 146 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 135.1ft, 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 CL	Concrete	0.0			Grouted Annulus
-5			brown (7.5YR 4/4) CLAY	0.0			
-10		CL	strong brown (7.5YR 4/6) sandy CLAY	0.0			
-15		NR	no recovery	0.0			
-20				NA			
-25				NA			
-30		SP	strong brown (7.5YR 5/8) fine to medium grain SAND	0.5			
-35		SP	brownish yellow (10YR 6/6) fine grain SAND with gravel	1.4			
-40		NR	no recovery	0.0			
		SP	yellowish brown (10YR 5/8) fine grain SAND				
		SP	yellowish brown (10YR 5/8) fine grain SAND, with gravel				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		SP	yellowish brown (10YR 5/8) very gravelly, fine grain SAND	2.9		
		SW	yellow (10YR 7/6) fine grain SAND			
		SP	yellowish red (5YR 5/8) CLAY	2.9		
		NR	yellow (10YR 7/6) fine grain SAND			
-50		SW	yellow (10YR 7/6) gravelly, fine grain SAND	0.0		
		SP	very pale brown (10YR 7/4 to 7/8) fine grain SAND with scattered gravel			
-55		SP	strong brown (7.5YR 5/6) gravelly fine grain SAND	0.0		
		SP	no recovery			
-60		SP	yellowish brown (10YR 5/8) gravelly, well graded, SAND	0.0		
		SP	yellow (10YR 7/6) gravelly, fine grain SAND			
-65		SP	brownish yellow (10YR 6/8) gravelly medium to coarse grain SAND	0.0		
		SP	brownish yellow (10YR 6/6) medium grain SAND with gravel			
-70		NR	no recovery	0.0		
		SP	strong brown (7.5YR 5/8) pebbly/gravelly medium grain SAND			
-75		SW	yellow (10YR 7/6) fine grain SAND	0.0		
		NR	yellow (2.5 7/6) gravelly fine grain SAND with some cobbles			
-80		SW	no recovery	0.0		
		SW	yellow (2.5 7/6) gravelly fine grain SAND with some cobbles			
-85		NR	no recovery	0.0		
		SW	yellow (2.5 7/6) gravelly fine grain SAND with some cobbles, damp at 91 feet, wet at 94 feet			
-90		SP	pale yellow (2.5Y 8/3) very fine grain SAND with some gravel, wet	NA		
-95		SP	pale yellow (2.5Y 8/3) very fine grain SAND, wet			
-100		SP	pale yellow (2.5Y 8/3) very fine grain SAND, with well rounded pebbles and gravel size chert, wet	NA		
-105		SP	pale yellow (2.5Y 8/3) very gravelly, very fine grain SAND, wet			
-110		SW	pale yellow (2.5Y 8/3) very fine grain SAND, with well rounded pebbles and gravel size chert, wet	NA		Bentonite Seal
-115		NR	no recovery			
		SP	pale yellow (2.5Y 8/3) very fine grain SAND, with well	NA		Sand Pack / Screened Interval
		SP	pale yellow (2.5Y 8/3) very fine grain SAND, with well			

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-120		SW	rounded pebbles and gravel size chert, wet	NA		Bentonite Plug
-125			pale yellow (2.5Y 8/3) very gravelly, very fine grain SAND, wet	NA		
-130		GP	pale yellow (2.5Y 8/3) very fine grain SAND, with well rounded pebbles and gravel size chert, wet	NA		
-135		SP	yellow (10YR 7/6) sandy GRAVEL, wet	NA		
-140		CH	light reddish brown (2.5YR 6/3) very fine grain SAND, wet	NA		
-145			brownish yellow (10YR 6/6) fat CLAY	NA		
			Boring Terminated at 146 ft, bgs	NA	