



MACTEC Engineering and Consulting
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FIELD BOREHOLE LOG



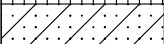
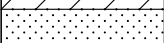

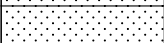
BOREHOLE NO.: **DR2-4**

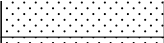




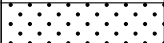



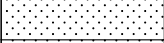
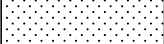
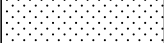


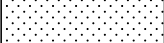


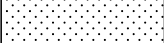


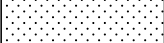


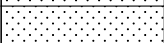
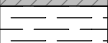
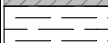
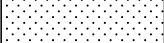
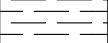
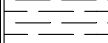
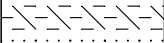
TOTAL DEPTH: **116**

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:	Amy Callaway	TOP OF CASING ELEVATION:	303.47'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	303.80'
DATE DRILLED:	5/20/04		

NOTES:

- 1) Drilling technique: 0 to 116 ft, bgs 6-inch diameter borehole with rotosonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 108.4ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/24/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
0		ML	Asphalt dark yellowish brown (10YR 4/4) SILT with trace clay	0.0			Grouted Annulus
-5				0.0			
-10				0.0			
-15				0.0			
-20		ML	dark yellowish brown (10YR 4/4) clayey SILT	0.0			
-25		ML	mottled reddish gray (2.5YR 6/1) and yellowish brown (10YR 5/8) clayey SILT	0.0			
-30		SC	brownish yellow (10YR 6/8) and red (10R 4/8) clayey very fine SAND	0.0			
-35		SP	red (10R 4/8) fine grain SAND	0.0			
-40		SP	red (10R 4/8) fine to medium grain SAND	0.0			
		SP	yellowish red (5YR 5/8) medium to coarse grain SAND	0.9			
			yellowish orange medium grain SAND with some coarse				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	grain, rounded chert nodules	0.0			
		SP	yellowish orange medium grain SAND with fine, rounded chert nodules				
-50		SP	yellowish orange, light brown fine grain SAND, small amount of fine rounded chert nodules, clay lense at 47 feet	2.8			
-55		SW	rounded, well graded, fine to coarse grain SAND, loose, some fine, rounded chert nodules, loose, clay lense at 56 feet	0.9			
-60		SP	yellowish orange fine grain SAND with rounded coarse, chert nodules	1.8			
-65				0.0			
-70		SP	yellowish orange fine grain SAND, trace clay, loose	2.1			
-75				0.0			
-80				0.0			
-85		SP	yellowish orange, light gray fine grain SAND, loose, moist to wet	0.0			Bentonite Seal
-90		CL	light gray, yellowish orange fine sandy CLAY, medium to highly plastic, moist	0.0			Sand Pack / Screened Interval
-95		SP	light gray, yellowish orange fine grain SAND, some coarse rounded chert nodules	0.0			
-100		SP	light gray, yellowish orange fine to medium grain SAND with coarse size chert nodules, few cobble chert nodules, trace clay, wet	NA			
-105				NA			
-110		CH	gray to light brown CLAY, highly plastic, very hard	NA			Bentonite Plug
-115			Boring Terminated at 116.0 feet bgs	NA	