



MACTEC Engineering and Consulting
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FIELD BOREHOLE LOG


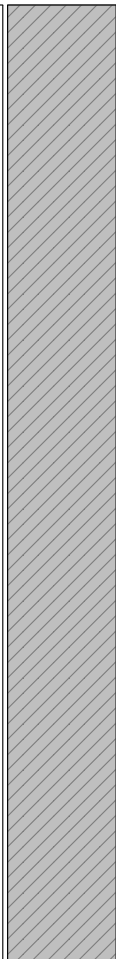
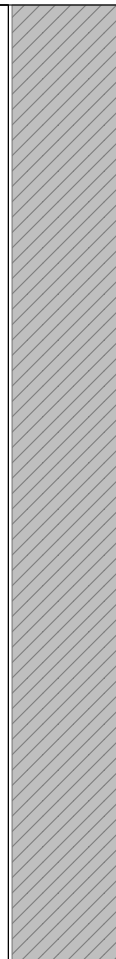

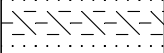
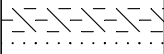
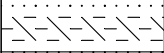
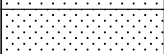

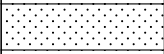
BOREHOLE NO.: MW-66A


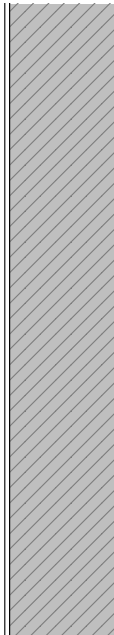

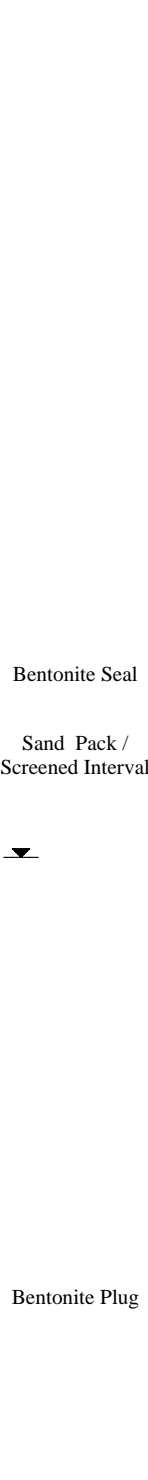
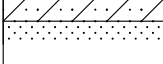
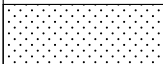
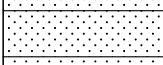
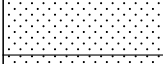




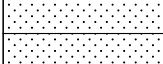
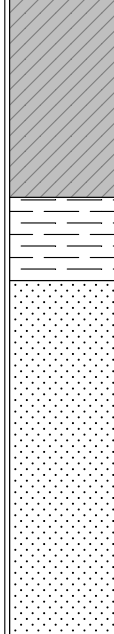
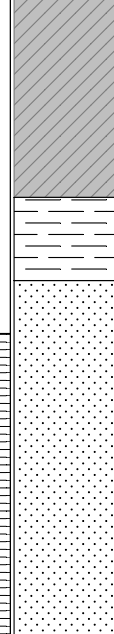

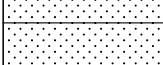
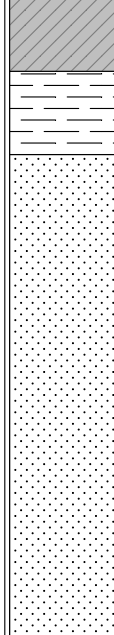
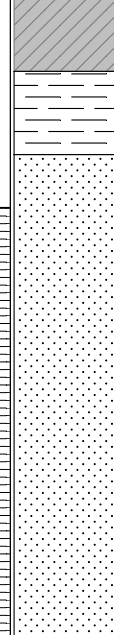
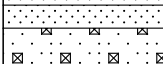

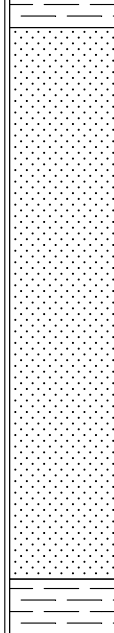
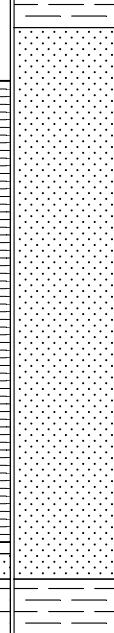


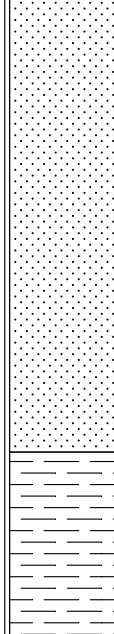
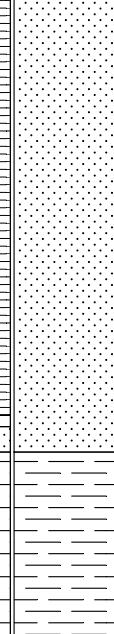


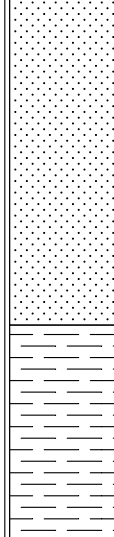
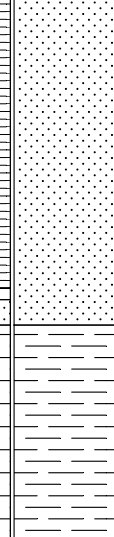


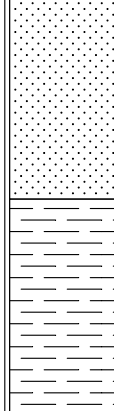
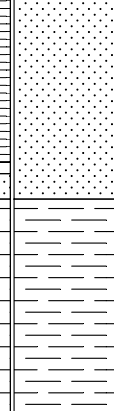


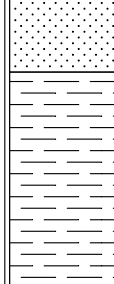
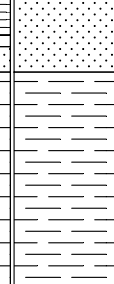


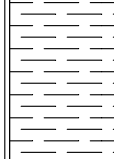
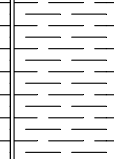

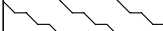
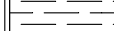
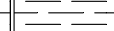
TOTAL DEPTH: 106

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:	284.22'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	284.34'
DATE DRILLED:	6/15/04		

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 95 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		CL ML	brown (7.5YR 4/2) CLAY with roots	0.0			Grouted Annulus
			brown (7.5YR 5/4) clayey SILT with some roots				
-5		CL	brown (7.5YR 5/4) CLAY	0.0			
		CL	brown (7.5 YR 5/4) CLAY with some coarse sand	0.0			
-10				0.0			
-15				0.0			
		CL	strong brown (7.5YR 5/6) sandy CLAY with trace gravel	0.0			
-20		SP	red (2.5YR 4/8) clayey coarse to very coarse SAND with pebble and gravel size chert nodules	0.0			
-25				0.0			
		SP	red (2.5YR 4/6) fine grain SAND with pebbles and gravel				
-30		SP	strong brown (7.5YR 5/8) medium grain SAND with pebbles and gravel	0.7			
		SP	yellow (10YR 7/6) fine grain SAND				
		SP	yellow (10YR 7/6) fine grain SAND with gravel				
-35		SP	yellow (10YR 7/6) medium grain SAND	5.3			
		SP	reddish yellow (7.5YR 6/8) coarse grain SAND with gravel				
-40		SP	strong brown (7.5YR 5/8) medium grain SAND	0.7			
			brownish yellow (10YR 6/8) medium grain SAND with				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION	
		SP	some clay and gravel	0.4				
-45		SC	strong brown (7.5YR 5/8) fine grain SAND					
		SP	red (10R 4/8) and pinkish gray (7.5YR 7/2) and reddish yellow (7.5YR 7/6) clayey fine grain SAND					
		NR	reddish yellow (7.5YR 6/8) and yellow (10YR 7/6) fine grain SAND					
-50		SP	no recovery	1.2				
		SP	reddish yellow (7.5YR 6/8) and yellow (10YR 7/6) fine grain SAND					
		SP	very pale brown (10YR 8/2) medium grain SAND					
-55		SP	reddish yellow (7.5YR 6/8), medium grain SAND with gravel	0.0				
		SP	reddish yellow (7.5YR 6/8), medium grain SAND with chert cobbles					
-60		SP	reddish yellow (7.5 YR 6/8) medium grain SAND with some gravel becoming more gravelly with depth	0.8				
		SP	yellow (10 YR 8/6) fine grain SAND					
-65		SP	yellow (10 YR 8/6) medium grain SAND	0.2				
		SP	reddish yellow (7.5 YR 6/8) gravelly coarse grain SAND					
-70		GP	pinkish gray (7.5YR 7/2) sandy GRAVEL with some cobbles becoming more sandy with depth	0.0				
		GP	very pale brown (10YR 7/3) gravelly fine grain SAND, sand grain size increasing with depth, becoming increasing moist with depth					
-75		SP	very pale brown (10YR 7/3) gravelly fine grain SAND, sand grain size increasing with depth, becoming increasing moist with depth	0.1				
		SP	very pale brown (10YR 7/3) gravelly medium grain SAND, wet					
-80		SP	very pale brown (10YR 7/3) gravelly medium grain SAND, wet	NA				
		SP	very pale brown (10YR 7/3) gravelly medium grain SAND, wet with some cobbles					
-85		SP	very pale brown (10YR 7/3) pebbly coarse grain SAND	NA				
		SP	very pale brown (10YR 7/3) pebbly, gravelly coarse grain SAND					
-90		CH	reddish yellow (7.5YR 6/8) fat CLAY with trace sand	NA				
		CH	dark gray (7.5YR 4/1) fat CLAY, damp					
-95		CH	dark gray (7.5YR 4/1) fat CLAY, damp	NA				
		CH	dark gray (7.5YR 4/1) fat CLAY, damp					
-100		CH	dark gray (7.5YR 4/1) fat CLAY, damp	NA				
		CH	dark gray (7.5YR 4/1) fat CLAY, damp					
-105		CH	Boring Terminated at 106 feet bgs	NA				