



MACTEC Engineering and Consulting
3200 Town Point Dr, Suite 100
Kennesaw, GA 30144

FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-150**

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:	Kevin Arnold	TOP OF CASING ELEVATION:	296.81'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	297.15'
DATE DRILLED:	6/8/04		

NOTES:

- 1) Drilling technique: 0 to 106.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 91.0 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4) ▼ Stabilized water level measured on 6/24/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
0		CL	silty CLAY, slight organics, slightly plastic, moist	0.0			Grouted Annulus
-5		CL	brown silty CLAY, non-plastic, dry, soft	0.0			
-10		CL	brown silty CLAY, slightly plastic, soft	0.0			
-15		CL	brown slightly silty (<5%) CLAY, medium to highly plastic, soft	0.0			
-20		CL	brown silty CLAY, very stiff, slightly plastic, dry	0.0			
-25		SM-ML	reddish brown silty fine grain SAND/fine sandy SILT, medium stiff to stiff, slightly plastic	0.0			
-30		SP-SC	reddish brown clayey, fine grain SAND, with rounded coarse size chert nodules (25%), non plastic	0.0			
-35		GP	rounded coarse to cobble size chert nodules with reddish brown slightly clayey fine grain SAND, loose	0.0			
-40			reddish brown fine to medium grain SAND with 50 %	0.0			

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SW SP	very rounded coarse to cobble size chert nodules				
		SP	light gray and yellow fine grain SAND with trace <5% coarse size chert, loose	0.0			
		GC	reddish orange, fine grain SAND				
		SP	brown sandy, clayey GRAVEL				
		SP	brown fine grain SAND, moist				
-50		SP	reddish orange fine grain SAND	0.0			
		SP	light brown and yellow, fine grain SAND with gravel to rounded cobble size chert nodules				
-55		SP	light brown and yellow medium grain SAND	4.8			
		NR	no recovery				
-60		SP	brown medium grain SAND with gravel to rounded cobble size chert	149.2/31.3			
		SP	brown fine to medium grain SAND with gravel/pebbles				
-65		SM-ML	light gray very fine grain SAND and SILT	94.7/4.1			Bentonite Seal
		SM-ML	brownish orange fine grain SAND and SILT with some clay and a few pebbles				
-70		SP-SC	brown yellowish fine grain SAND with some clay	0.0			Sand Pack / Screened Interval
		SP-SC	yellowish brown clayey fine grain SAND				
-75		SP	gray, yellowish brown fine to medium grain SAND	0.0			
		SP	gray, brown very fine SAND				
		SP	yellow, brown fine grain SAND with pebbles				
-80		SP	light brown very fine grain SAND	NA			
		SP	light brown, orange fine grain SAND, moist				
-85		SP	yellowish brown fine to medium grain SAND, wet	NA			
		SP	yellowish brown coarse grain SAND with few rounded pebbles, wet				
-90		CH	light gray and orange yellowish fat CLAY	NA			
-95		CH	gray fat CLAY	NA			Bentonite Plug
-100		CH	gray fat CLAY	NA			
-105		CH	gray fat CLAY	NA			
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				
		CH	gray fat CLAY				