



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **DR1-5**

TOTAL DEPTH: **156**


PROJECT INFORMATION

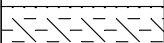
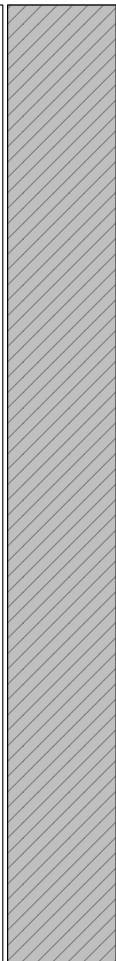





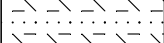

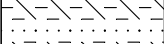
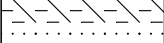
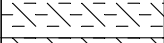

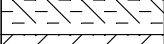
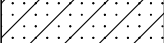
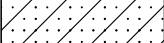
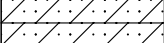
PROJECT: **Boring Log**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Bill Payne**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **5/8/04**

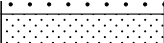
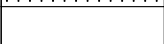
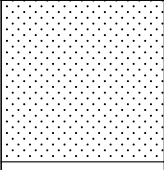

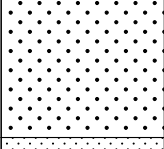
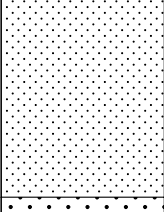
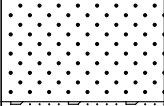
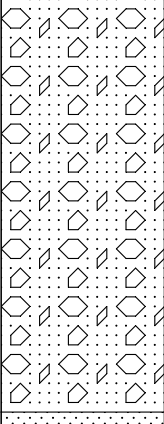
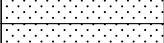
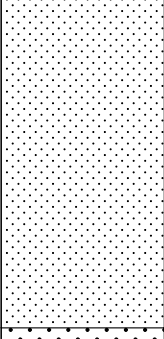
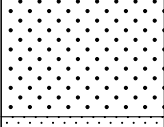

DRILLING INFORMATION

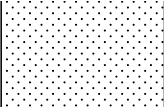
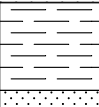
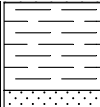
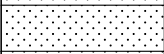

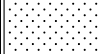
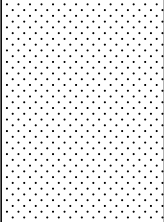
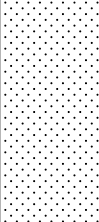
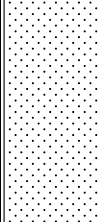
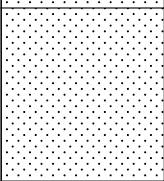
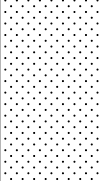




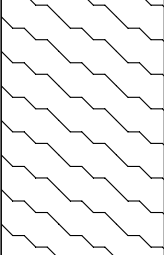


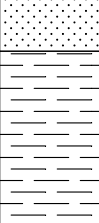

DRILLING CO.: **ProSonic**
DRILLER: **Adam Marshall**
RIG TYPE: **RotoSonic**
TOP OF CASING ELEVATION: **294.50'**
GROUND SURFACE ELEVATION: **294.88'**

NOTES:

- 1) Drilling technique: 0 to 156 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 145.5 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	Asphalt and crushed stone, fill	0.0				Grouted Annulus
		CL	brown silty CLAY					
-5				0.0				
-10				0.0				
-15				0.0				
		CL	brown very fine grain sandy, silty, CLAY					
-20		SC	reddish brown to brown clayey, very fine grain SAND	0.0				
-25		SC	mottled and bedded reddish brown, brown and light gray fine grain SAND with trace clay	0.0				
		SW-GW	reddish brown fine to coarse grain SAND with fine to coarse gravel (<10%)					
-30		SP-SC	reddish brown clayey, fine grain SAND with <10% fine gravel	0.0/46.5				
		SW	reddish brown fine to coarse grain SAND					
-35		SP	reddish brown fine grain SAND	0.0				
		SW	brown fine grain SAND to coarse GRAVEL					
-40		CH	grayish reddish brown CLAY	0.0				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	brown fine grain SAND to fine GRAVEL	NA			
		NR	light brown fine grain SAND				
-50		SP	no recovery	0.0			
-55		NR	light brown fine grain SAND	NA			
-60		SW	no recovery	0.0			
-65		SP	brown fine to coarse grain SAND with some fine gravel	0.0			
-70		SW	yellowish brown medium grain SAND, moist	0.0			
-75		SW-GW	brown medium grain SAND to fine GRAVEL	0.0			
-80			brown to light brown and dark gray medium to coarse grain SAND and fine to coarse GRAVEL	0.0			
-85				0.0			
-90				0.0			
-95		SP		0.0			
-100		SP	light brown fine grain SAND	NA			
-105			light brown fine grain SAND	NA			
-110		SW		NA			
-115		SP	yellowish brown medium grain SAND to fine GRAVEL	NA			
			light brown fine grain SAND				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION			WELL DESCRIPTION
-120		SP		NA				Bentonite Seal
-125			light brown fine grain SAND with <10% coarse sand and fine gravel	NA				Sand Pack / Screened Interval
			brown medium to coarse grain SAND with <10% fine gravel					
-130				NA				
-135				NA				
		SP	grayish brown fine grain SAND					Bentonite Plug
-140				NA				
		SP-GW CH	yellowish brown medium grain SAND and fine to coarse GRAVEL					
-145			gray CLAY	NA				
-150				NA				
-155			Boring Terminated at 156 ft, bgs	NA	