

Datum: WGS 84 Lat: 38.9422523
Long: -94.7909487

6-135-24E SE SW SE SW

HNTB		LOG OF BORING		BORING NO. B-5	
				PAGE 1	OF 2
PROJECT <u>Gateway</u>		STATION / NORTHING <u>/ 237943.791</u>			
LOCATION <u>Johnson County, Kansas</u>		OFFSET / EASTING <u>/ 2224891.134</u>			
DATE STARTED <u>03/28/2012</u> DATE COMPLETED <u>03/28/2012</u>		SURFACE ELEVATION <u>907.9 ft</u>			
EXPLORATION CONTRACTOR <u>Terracon</u>		DATUM <u>NAVD 88</u>			
DRILLER <u>K. Kempton</u> DRILL RIG <u>CME-55 ATV</u>		GROUND WATER LEVELS:			
HAMMER TYPE <u>Auto</u> HAMMER EFFICIENCY <u>79%</u>		☒ AT TIME OF DRILLING <u>NATD</u>			
LOGGED BY <u>L. Wagner</u> REVIEWED BY <u>J. Martens</u>		☒ AFTER <u>N/A</u>			

DRILLING METHOD	DEPTH (ft)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY (in)	CORE REC % (RQD %)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	GRAPHIC LOG	MATERIAL DESCRIPTION Unified (Visual) Classification System	GEOLOGIC NAME	ELEVATION (ft)
	0							Topsoil		907.9
	5	ST U1	14			4.0		Brown, Stiff to Very Stiff, FAT CLAY, Moist (CH)		905
								With Limestone Seams at 6.5'		
	9.2	SPT S2	2	100% (100%)	50/2"					
	10	NQ C1						LIMESTONE, Gray to Brown, Medium Bedded, Weathered, Moderately Hard, Fossiliferous		900
	10.1									
		NQ C2		100% (57%)						
	15									
	15.1	NQ C3		100% (88%)				Gray, Slightly Weathered, Quartz-Filled Vugs at 13.5'		895
	20									
	20.1	NQ C4		100% (80%)				3" SHALE Seam at 21.1' Shaley LIMESTONE, Thick Bedded at 21.6'		
								LIMESTONE, Medium Bedded at 23.5'		885
	25									

(Continued Next Page)

BORING LOG 2 W/O LAB DATA - GATEWAY TEMPLATE.GDT - 4/6/12 10:44 - O:\556921\GEO\TECH\GINT\GEOLOGY BORINGS.GPJ



LOG OF BORING

BORING NO.

B-5

PAGE

OF

2

2

PROJECT Gateway

STATION / NORTHING / 237943.791

LOCATION Johnson County, Kansas

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DRILLING METHOD	DEPTH (ft)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY (in)	CORE REC % (RQD %)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	GRAPHIC LOG	MATERIAL DESCRIPTION Unified (Visual) Classification System	GEOLOGIC NAME	ELEVATION (ft)
	25									
	25.1								25.8	882.1
		NQ						SHALE, Gray, Laminated, Slightly Weathered, Moderately Hard	Lane SH	
		NQ C5		100% (100%)						880
	30								30.1	

Boring backfilled with Holeplug upon completion.
Auger Refusal at 9.2 feet.
Bottom of borehole at 30.1 feet.