

Datum: WGS84 Lat: 38.9434945
Long: -94.7624688

NWSESESE 5-13-24E

HNTB		LOG OF BORING		BORING NO. B-19	
				PAGE 1	OF 2
PROJECT <u>Gateway</u>		STATION / NORTHING <u>/ 238684.208</u>			
LOCATION <u>Johnson County, Kansas</u>		OFFSET / EASTING <u>/ 2232970.369</u>			
DATE STARTED <u>04/02/2012</u> DATE COMPLETED <u>04/02/2012</u>		SURFACE ELEVATION <u>1016.5 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		1016.5
								Black, Firm to Stiff, FAT CLAY, Slightly Moist (CH) (Residual Shale)		
	5	SPT S1	3		2-2-2 (4)	2.0				1015
	6.0							LIMESTONE, Gray, Medium Bedded, Highly Weathered, Moderately Hard		1010.5
								Auger refusal at 7'. Ground down to 8.5' to begin coring.		
	10.0	NQ C1		100% (0%)				Becoming Weathered at 10'	Captain Creek LS	1010
	10.5									
	11.6	NQ C2		100% (40%)				SHALE, Gray, Laminated, Weathered, Soft		1004.9
								Calcareous SANDSTONE, Very Thinly Bedded, Weathered, Moderately Hard	Vilas SH	1005
	15.0							SANDSTONE with Interbedded Shale, Gray, Very Thinly Bedded to Laminated, Slightly Weathered, Moderately Hard at 14'		
	15.5									
	18.3	NQ C3		100% (38%)				SHALE, Gray, Laminated, Weathered, Soft		1000
	20.0									
	20.5									
	24.4	NQ C4		100% (77%)						995
	25.0								Plattsburg LS	992.1

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BORING LOG 2 W/O LAB DATA - GATEWAY_TEMPLATE.GDT - 4/18/12 11:51 - 0:556921GEOLOGYTECHNITGEOLOGY BORINGS.GPJ



LOG OF BORING

BORING NO.

B-19

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OF

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PROJECT Gateway

STATION / NORTHING / 238684.208

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									
		NO						LIMESTONE, Gray, Medium Bedded, Slightly Weathered, Moderately Hard (continued)		

Boring backfilled with Holeplug upon completion.
Auger Refusal at 7.0 feet.
Bottom of borehole at 25.5 feet.