

Datum: WGS 84 Lat: 38.9413453
 long: -94.7816394

7-13-24E NW NE NE NE

HNTB

LOG OF BORING

BORING NO.

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PROJECT Gateway

STATION / NORTHING / 237707.618

LOCATION Johnson County, Kansas

OFFSET / EASTING / 2227549.061

DATE STARTED 03/23/2012 DATE COMPLETED 03/23/2012

SURFACE ELEVATION 1014.4 ft

EXPLORATION CONTRACTOR Terracon

DATUM NAVD 88

DRILLER K. Kempton

DRILL RIG CME-55 ATV

GROUND WATER LEVELS:

HAMMER TYPE Auto

HAMMER EFFICIENCY 79%

AT TIME OF DRILLING NATD

LOGGED BY L. Wagner

REVIEWED BY J. Martens

AFTER N/A

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									1014.4
HSA 3.25" ID								Topsoil		0.3
								Red to Brown, Firm to Stiff, FAT CLAY, Moist (CH)		
	5	SPT S1	16		3-3-5 (8)	1.0				1010
								Limestone Floaters at 6'		
	7.6									1006.8
	8	NQ C1		79% (67%)				LIMESTONE, Gray, Medium Bedded, Weathered, Moderately Hard	Captain Creek LS	
	8.8							Brown, CLAY, with Limestone Fragments		
	10.0									1005
	10.7	NQ C2		100% (33%)				LIMESTONE, Gray, Thin Bedded, Weathered, Moderately Hard		
								Calcareous SANDSTONE, Gray to Brown, Thin Bedded, Moderately Hard	Vilas SH	
	14.8									1000
	15	NQ C3		100% (98%)				SHALE, Gray, Laminated, Weathered, Soft		
	20									995
	21.6	NQ C4		100% (97%)				LIMESTONE, Gray, Medium Bedded, Slightly Weathered, Moderately Hard, Fossiliferous	Plattsburg LS	
								2" SHALE Seam at 22.7'		
	25									990

(Continued Next Page)

BORING LOG 2 W/O LAB DATA - GATEWAY_TEMPLATE.GDT - 4/8/12 10:57 - O:\55921\GEO\TECH\GINT\GEOLOGY BORINGS.GPJ

LOG OF BORING

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Boring backfilled with Holeplug upon completion.
Auger Refusal at 8.0 feet.
Bottom of borehole at 40.0 feet.