

Datum: WGS 84 Lat: 38.942071 Long: -94.7551101 4-13-24E SW SWSE SW

HNTB

LOG OF BORING

BORING NO.

B-22

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PROJECT Gateway

STATION / NORTHING / 238243.147

LOCATION Johnson County, Kansas

OFFSET / EASTING / 2235080.526

DATE STARTED 03/29/2012 DATE COMPLETED 03/29/2012

SURFACE ELEVATION 1027.3 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

BORING LOG 2 W/0 LAB DATA - GATEWAY TEMPLATE.GDT - 4/8/12 12:05 - O:\55921\GEO\TECH\GINT\GEOLOGY BORINGS.GPJ

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									1027.3
								Topsoil		0.3
								Brown, Stiff, FAT CLAY, Moist (CH)		1025
	5	ST U1	3							1020
	10	ST U2	18					Tube crushed at end.		1015
	15.8	SPT S3	10		35-50/4"	4.0		SHALE, Black, Fissile, Weathered, Moderately Hard	Eudora SH	1013.8
								Becoming Gray at 16'		16.6
		NQ C1		95% (81%)				LIMESTONE, Gray, Medium Bedded, Slightly Weathered, Moderately Hard, Fossiliferous	Captain Creek LS	1010.7
	20									
		NQ C2		97% (40%)				SANDSTONE with Shale Lenses, Gray, Very Thin Bedded, Weathered, Moderately Hard	Vilas SH	1005.6
	25									1005

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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									
	25.9									
		NQ C3		88% (0%)				LIMESTONE with Interbedded Shale Seams, Gray, Very Thin to Thin Bedded, Weathered, Moderately Hard		
								SANDSTONE with Shale Lenses, Gray, Very Thin Bedded, Weathered, Moderately Hard		1000
	29									
	29.5									
	30							SHALE, Gray, Laminated, Weathered, Soft to Moderately Hard		
		NQ C4		75% (43%)				Note: 2' of C4 stuck in the barrel. Recovered core damaged during extraction. Measured RQD likely lower than in-place material.		995
	35									
	35.0									

Boring backfilled with Holeplug upon completion.
Auger Refusal at 14.8 feet.
Bottom of borehole at 35.0 feet.