

Datum: WGS84 Lat: 38.9562767
 Long: -94.7320136

NWNWNW NE 3-13-24E

HNTB		LOG OF BORING		BORING NO. B-44	
				PAGE 1 OF 2	
PROJECT <u>Gateway</u>			STATION / NORTHING / 243647.636		
LOCATION <u>Johnson County, Kansas</u>			OFFSET / EASTING / 2241459.003		
DATE STARTED <u>04/04/2012</u> DATE COMPLETED <u>04/04/2012</u>			SURFACE ELEVATION <u>1025.6 ft</u>		
EXPLORATION CONTRACTOR <u>Terracon</u>			DATUM <u>NAVD 88</u>		
DRILLER <u>J. Johnson</u> DRILL RIG <u>CME-75</u>			GROUND WATER LEVELS:		
HAMMER TYPE <u>Auto</u> HAMMER EFFICIENCY _____			☒ AT TIME OF DRILLING <u>NATD</u> ☐ AFTER <u>N/A</u>		
LOGGED BY <u>J. Martens</u> REVIEWED BY <u>L. Wagner</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									1025.6
HSA 3.25" ID CORE BARREL NQ2								Topsoil, Tan, Firm, LEAN CLAY, Slightly Moist (CL) Light Brown, Stiff, LEAN to FAT CLAY, Moist (CL/CH) (Residuum)		1025
	5	ST U1	16			2.0				1020
	8							LIMESTONE, Gray, Fine Grained, Medium to Thick Bedded, Slightly Weathered to Fresh, Moderately Hard to Hard, Fossiliferous		1018.1
	10	NQ C1		100% (74%)				3" Tan, Weathered Argillaceous Seam at 9.4' Core barrel kicked off limestone in initial hole and could not insert the inner barrel at the beginning of the second run. Offset 3 ft and re-drilled to the top of rock. No change in elevation. Logged recovered core from the offset hole. 3" Dark Gray, Fossiliferous Seam at 11.3'	Captain Creek LS	1015
	10.6									
	13.3	NQ C2		97% (97%)				SHALE, Gray, Laminated, Fresh, Soft, Clayey	Vilas SH	1012.3
	15									
	15.6							Calcareous SANDSTONE with Interbedded Shale Laminae, Gray, Very Thin to Thin Bedded, Fresh, Moderately Hard		1010
	17.3	NQ C3		93% (48%)				SHALE, Gray, Laminated, Fresh, Moderately Hard to Hard, Blocky		
	20							Shale disturbed by coring process.		1005
	20.6									
	22.5	NQ C4		100% (50%)				LIMESTONE, Dark Gray to Gray, Fine to Medium Grained, Medium to Thick Bedded, Fresh, Moderately Hard, Fossiliferous, Upper 4" Fractured 1/2" SHALE Seam at 23.4'	Plattsburg LS	1003.1
	25									

(Continued Next Page)

BORING LOG 2 W/O LAB DATA - GATEWAY_TEMPLATE.GDT - 4/6/12 12:58 - O:\55921\GEO\TECH\GINT\GEOLOGY BORINGS.GPJ



LOG OF BORING

BORING NO.

B-44

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OF

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PROJECT Gateway

STATION / NORTHING / 243647.636

LOCATION Johnson County, Kansas

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	25	NO								25.6

1000

Boring backfilled with Enviroplug and cuttings upon completion.
Auger Refusal at 8.0 feet.
Bottom of borehole at 25.6 feet.