

Datum: WGS 84 Lat: 38.9420459 Long: -94.8021622 1-135-23E SWSWSESE

HNTB		LOG OF BORING		BORING NO. B-3	
				PAGE 1	OF 1

PROJECT <u>Gateway</u>	STATION / NORTHING <u>/ 237755.682</u>
LOCATION <u>Johnson County, Kansas</u>	OFFSET / EASTING <u>/ 2221706.358</u>
DATE STARTED <u>03/15/2012</u> DATE COMPLETED <u>03/16/2012</u>	SURFACE ELEVATION <u>973.6 ft</u>
EXPLORATION CONTRACTOR <u>Terracon</u>	DATUM <u>NAVD 88</u>
DRILLER <u>Z. Dizmang</u> DRILL RIG <u>Mobile B-53</u>	GROUND WATER LEVELS:
HAMMER TYPE <u>Safety</u> HAMMER EFFICIENCY <u>N/A</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									973.6
SSA 6" OD								Topsoil		0.5
								Red to Brown, Stiff, FAT CLAY, Moist (CH)		
	5	SPT S1	15		6-9-50/3"	2		Limestone Floaters (trace gravel) at 3.2'		970
CORE BARREL NQ2	5									4.9
	8.5	NQ C1		79% (40%)				LIMESTONE, Gray and Brown, Moderately Weathered, Moderately Hard, Fossiliferous	Plattsburg LS	968.7
	10	NQ C2		57% (39%)				Becoming Highly Weathered at 10.5'		965
	12.3	NQ C3		100% (95%)				Gray to Maroon, Slightly Weathered at 13' Note: ~20% Water Loss		960
	15									15.8
		NQ C4		97% (83%)				SHALE, Gray, Laminated, Slightly Weathered, Moderately Hard	Bonner Springs SH	957.8
										19.0
Auger Refusal at 5.0 feet. Bottom of borehole at 19.0 feet.										955