

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	160-Montgomery	SOUNDING NO.	CD-1	SHEET 1 of 3
BRIDGE STA.	433+54.08: 7.0' Lt	PROJ. NO.	KA-2073-01	BRIDGE NO. 160-63-7.09(102)
SITE NAME			US-160 over Elk River	HOLE STA. 431+92.8, 18.5' Rt of CL
GEOLOGIST	D. Martin, P.G.	SCALE	1 inch = 5.0 feet	DATE July 6, 2011
DRILLER	J. Burns	RIG TYPE	CME-55	TOP HOLE ELEV. 813.56
GW ELEV.	805.3	TOTAL DEPTH	58.6	M/B ELEV. 790.06

N = 37.264081

E = -95.901470

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Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION	
8" Hollowstem Augers	Mantle			813.6	RUBBLE, dry, loose, Rip rap					
			3.0	810	810.6	SILTY CLAY, dark grayish brown, soft				
			5.0	808.6	808.6	SILTY CLAY, dark olive gray, very soft	0.108	5010		806.56
				805	803.6	SILTY CLAY, dark brownish gray, damp, very soft, sandy	0.473	29900		801.56
			10.0	800	796.8	SILTY CLAY, medium brownish gray, damp, firm, sandy	1.095	48900		796.76
			16.8	795	790.8	GRAVEL, loose, limestone gravel				
				790	790.1	LIMESTONE, highly weathered, strong blocky				
				790	789.7	BROKEN LIMESTONE, highly weathered, brownish gray, moderately strong				
				785	786.6	SILTY SHALE, medium gray to dark gray, firm	13.9	27800		785.76
				785	784.5	OOLITIC LIMESTONE, light gray, strong oolitic	198	397000		783.96

NQ2 Diamond  
Stoner LS Member  
Evgsgr SH Mbr.

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BRIDGE STA.	433+54.08: 7.0' Lt	PROJ. NO.	KA-2073-01	BRIDGE NO. 160-63-7.09(102)
SITE NAME	US-160 over Elk River			HOLE STA. 431+92.8, 18.5' Rt of CL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION	
	Captain Creek Limestone Member		30.2	783.4	CHERTY LIMESTONE, fossiliferous, gray with dark blueish gray mottles, strong to very strong, coralline stylitic structures, calcite filled vugs (1 cm diameter)					
			3	780		237	474000		780.26	
			4							
			5	775		460	921000		775.86	
			6	770		252	503000		772.06	
			7	765		284	568000		764.96	
		8	760	186	373000		760.96			
		9		186	372000		757.46			
			58.6	754.96	T.D. = 58.6					

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RTE./CO.	160-Montgomery	SOUNDING NO.	CD-1	SHEET 3 of 3	
BRIDGE STA.	433+54.08: 7.0' Lt	PROJ. NO.	KA-2073-01	BRIDGE NO.	160-63-7.09(102)
SITE NAME	US-160 over Elk River			HOLE STA.	431+92.8, 18.5' Rt of CL

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