



10-23 KA-1826-01  
 Br. No. 10-23-2.63(191)  
 Bob Billings Parkway over K-10  
 K-10 (South Lawrence Trafficway)/Bob Billings Parkway  
 Douglas Co  
 CD3  
 N:38.959741 E:-95.334869 (Approx.)  
 NW ¼, SW ¼, SW ¼, S32, T12S, R19E

# KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-10 / Douglas	SOUNDING NO.	CD 03	SHEET 1 of 3
		PROJ. NO.	10-23 KA-1826-01	BRIDGE NO.
SITE NAME	K-10 Bob Billings Parkway Interchange			HOLE STA. 51+79, 53.0' Lt Bob Billings
GEOLOGIST	J. Barker G.I.T.	SCALE	1 inch = 5.0 feet	DATE
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.
GW ELEV.	934.7	TOTAL DEPTH	43.8	M/B ELEV.
				939.69
				933.69

BOREHOLE REPORT - KANSAS DOT\_GDT - 3/13/13 13:42 - Q:\GEOLOGY\BRIDGE\10-23 KA-1826-01\BOB BILLINGS INTERCHANGE\2.GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
				939.7	Silty clay, brown, LS gravel, slightly moist.				
			6.0	933.7	Shale, highly weathered				
			11.1	928.6	Limestone, gray to light, very hard, non weathered, closely to very closely fractured, fossiliferous, well cemented.				
			14.2	925.5	Limestone	192	1.48E+08		925.89
			19.8	919.9	Limestone, light gray, with occasional thin 1" thick shale seams, very hard, non-weathered, closely fractured well cemented fossiliferous at 23.4'.	328	1.28E+08		921.84
			23.6	916.1	Shale, dark gray to greenish gray, sandy, hard, well compacted, non-weathered, widely fractured. At 26.1' occasional thin, less than 1" thick sandstone stringers.	505	1.68E+08		917.09
						26	2020000		913.74



# KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-10 / Douglas	SOUNDING NO.	CD 03
		PROJ. NO.	10-23 KA-1826-01
SHEET 2 of 3		BRIDGE NO.	
SITE NAME			K-10 Bob Billings Parkway Interchange
			HOLE STA.51+79, 53.0' Lt Bob Billings

Bit Type	GEOLOGIC NAME	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
	Lawrence Formation	30.6	909.1	Shale, dark gray to gray, clayey, non weathered closely fractured, well compacted, high swell potential.				
		6	907.2 907.1	Coal seam	7.6	1730000		907.19
		32.5 32.6	905	Shale, maroon to greenish brown, hard, non weathered, closely fratured, well compacted.				
		7	903.19		22	4660000		
		38.8	900.9	Shale, gray, clay, high swell potential, closley fractured well compacted.				
		8	898.24		11.2	1540000		
		43.8	895.89	T.D. = 43.8				

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		PROJ. NO.	10-23 KA-1826-01
SITE NAME			K-10 Bob Billings Parkway Interchange
			HOLE STA.51+79, 53.0' Lt Bob Billings

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