



4-99 KA-0695-01 K-4 over South Branch Mission Creek

4 miles North of Eskridge

Wabauwsee County

CD 01

N: 38.901217 E: -96.085800 (Approximate)

Center South 1/2, Sect 21, T13S, R12E

2/24/2009

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-4-99	SOUNDING NO.	CD #1	SHEET 1 of 2
BRIDGE STA.	237+00	PROJ. NO.	KA-0695-01	BRIDGE NO. 4-99-28.99(105)
SITE NAME	K-4 over South Branch Mission Creek			HOLE STA. 237+45, 56.0' Rt CL
GEOLOGIST	Rocky Crow	SCALE	1 inch = 5.0 feet	DATE February 24, 2009
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV. 1254.17
GW ELEV.	1251.77	TOTAL DEPTH	27.3	M/B ELEV. 1249.97

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" Augers	Mantle			1254.2	Silt, black, moist	1.135	78700		1252.17		
Diamond	Bvt. Ls Mbr		4.2	1250.0	Limestone, weathered						
			4.5	1249.7	Limestone, dark gray, shaly						
	Legion Shale Member		5.3	1248.9	Limestone, hard, gray, fossil debris						
			6.5	1247.7	Shale, very limy, fossiliferous	8.4	1030000		1246.67		
			7.5	1246.7	Shale, very limy to limestone, very shaly, fossiliferous, brachiopods	266	1.05E+08		1242.47		
			12.3	1241.9	Shale, gray						
			13.1	1241.1	Limestone, dark gray, shaly						
			13.5	1240.7	Limestone, shaly, fossiliferous	7.55	445000		1238.87		
			14.2	1240.0	Shale, dark gray, firm						
			17.3	1236.9	Shale, gray, firm, somewhat limy	26.2	2010000		1233.37		
			Roca Shale Fm		22.3	1231.9	Limestone, dark gray, fossiliferous (shells, crinoids), shaly, impure				
					23.2	1231.0	Sallyards Limestone Member				
	26.7	1227.5			Shale, very limy, fossiliferous, phosphatic nodules, brachiopodal	65	9880000		1229.77		
				27.3	1226.9	Limestone, hard, gray, fossiliferous					
					1226.87	SIS T.D. = 27.3					

BOREHOLE REPORT - KANSAS DOT.GDT - 3/11/09 16:19 - Q:\GEOLOGY\BRIDGE\4-99 KA-0695-01\4-99-2899(105).GPJ

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-4-99	SOUNDING NO.	CD #1	SHEET 2 of 2	
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