



4-89 KA-89-01

Br No. 4-89 -8.90 (300)

K-4 over Blacksmith Creek

Shawnee County

CD2

N:39.021633 E-95.839170 (Approx)

NW ¼, NE ¼, SE ¼, S10, T12S, R14E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-4-Shawnee	SOUNDING NO.	CD 2	SHEET 1 of 2
		PROJ. NO.	4-89 KA2089-01	BRIDGE NO.
SITE NAME	K-4 over Blacksmith Creek			HOLE STA. 214+13, 27.0' Rt CL
GEOLOGIST	G. Worthington, G.A.	SCALE	1 inch = 9.2 feet	DATE
DRILLER	R. Vervynck	RIG TYPE	CME 75	TOP HOLE ELEV.
GW ELEV.	968.8	TOTAL DEPTH	53.2	MB ELEV.
				984.45
				961.95

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" Hollow Augers	Fill		6.0	984.5	Fill, brown to dark brown, w small gravel, dry				
				978.5	Fill, light-brown, moderately-graded gravel, moist	0.85	65600		973.25
NQ2 Diamond	Silver Lake Sh Member		13.0	971.5	Clay, silty, w/ limestone gravel to cobble-sized, blue-gray to orange-brown, moist/wet	0.635	61800		968.25
			22.5	962.0	Shale, very weathered, blue-gray, soft to firm, wet				963.25
			24.4	960.1	Shale, blue-gray to dark-gray, soft to medium hard	3.75	190000		956.65
			28.4	956.1	Shale, limy, with crinoids, shelly fauna, dark-gray, hard				
			29.2	955.3	Shale, slightly limy, gray to dark-gray, soft				
			30.2	954.3	Coal, black, hard to very hard	1.59	83500		951.65
			31.0	953.5	Shale, light gray to olive-green, soft				
			33.2	951.3	Shale, dark-gray to green, laminated, medium-hard	9.9	698000		947.55
			42.2	942.3	Shale, dark-gray, hard	99.5	2.44E+07		941.25
			47.6	936.9	Shale, pale-green, very hard, w/ shelly fauna (brachiopods)	126.5	4.01E+07		937.25
48.2	936.3	Shale, pale-green, extremely soft (crumbles) to soft							
49.8	935.3	Shale, very limy, or shaley limestone, green-gray, soft to hard	138.5	1.33E+08		933.55			
			53.2	931.25	T.D. = 53.2				

BOREHOLE REPORT - KANSAS DOT.GDT - 1/3/12 16:10 - C:\USERS\GALEN\DESKTOP\PROJECTS\14-89 KA-2089-01\4-89 KA-2089-01 PA-CD.GPJ