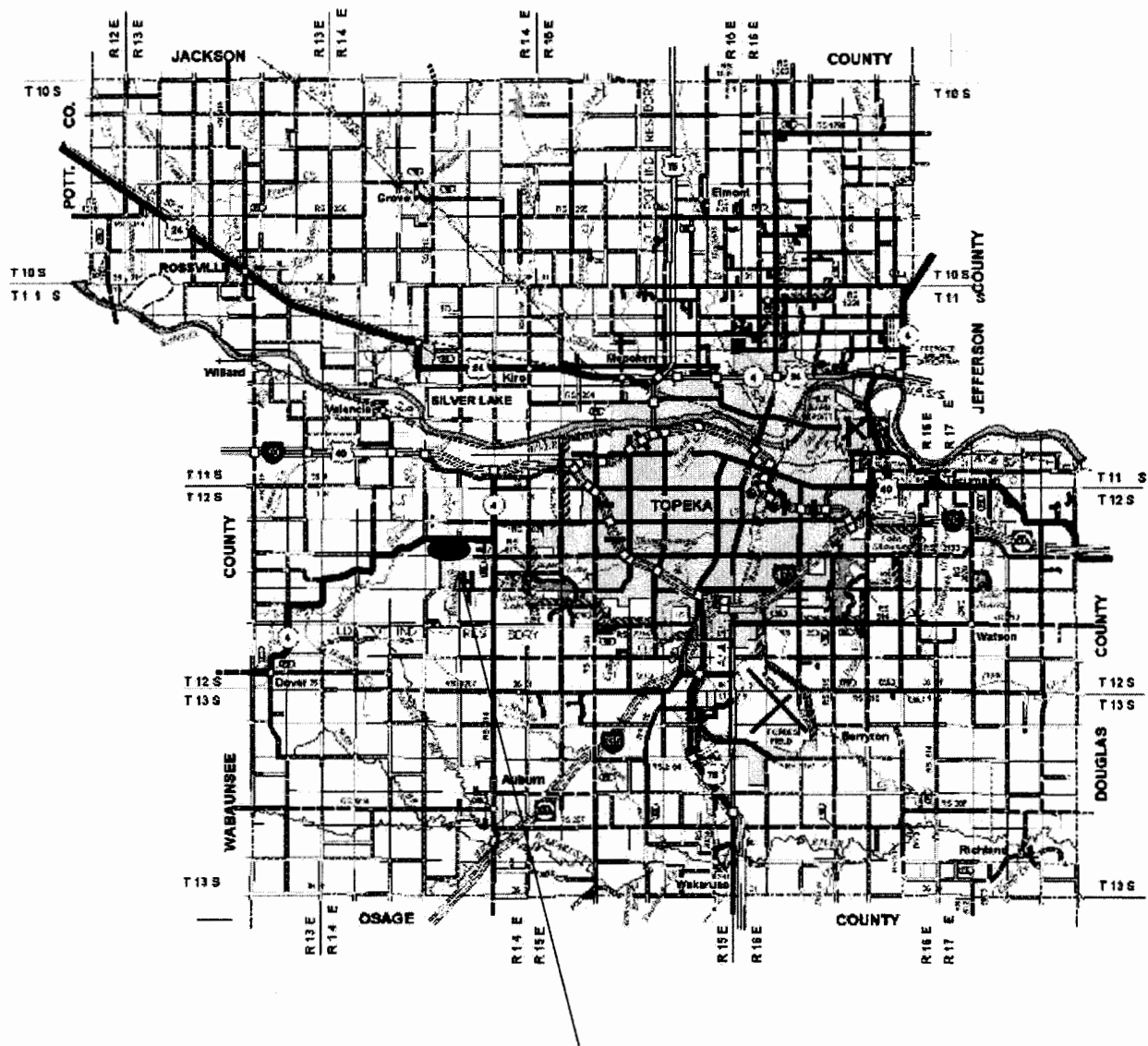




4-89 KA-89-01

Br No. 4-89 -8.90 (300)

K-4 over Blacksmith Creek

Shawnee County

CD1

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 1	SHEET 1 of 2
		PROJ. NO.	4-89 KA2089-01	BRIDGE NO.
SITE NAME	K-4 over Blacksmith Creek			HOLE STA. 215+71, 21.0' Rt CL
GEOLOGIST	G. Worthington	SCALE	1 inch = 8.3 feet	DATE December 12, 2011
DRILLER	R. Vervynck	RIG TYPE	CME 75	TOP HOLE ELEV. 993.2
GW ELEV.	969.4	TOTAL DEPTH	47.9	WB ELEV. 992.7

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
	Burlington Ls Member	1	0.5	993.2	topsoil/small gravel, brown				
				992.7	Limestone, gray-brown, hard to very hard, thickly bedded	296.5	1.62E+08		989.9
		2	5.8	990		466	2.19E+08		988.1
				987.4	Shale, dark-gray, soft to firm, moist, thickly-bedded	7.15	595000		985.5
			7.7	985	Shale, pale-olive to grayish-green to dark-gray, slightly limy, soft to medium hard, laminated to very thin-bedded				
		3		980					
		4		975		5.85	399000		976.9
				974.2	Sandstone, dark yellowish-orange to light olive-gray, micaceous, soft to medium hard, thin to medium thin bedded	8.25	691000		974.5
		5	19.0	970		81	3.26E+07		973.1
				970.2	Shale, medium-bluish gray, to dark gray, very micaceous in spots, laminated to very thin bedded				
		6	23.0	965					
				967.6	Shale, dark-gray, soft, medium-thin to thickly bedded,	9.5	850000		965.9
		7		960		5.55	6750000		962.4
				959.1	Shale, limy, medium dark-gray, fossiliferous (crinoid frags), medium hard	224.5	5.7E+07		957.1
			37.7	955	Organic shale to coal, black, medium hard				
		9	38.7	954.5	Shale, dark greenish-gray, w/ organic material, soft, laminated to very thin bedded, micaceous	296	9.9E+07		951.2
		10		950		66	1.25E+07		946.4
			47.9	945.3	T.D. = 47.9				

BOREHOLE REPORT - KANSAS DOT.GDT - 1/3/12 16:22 - C:\USERS\GALEN\DESKTOP\PROJECTS\4-89 KA-2089-01\4-89 KA-2089-01 PA-CD.GPJ