

NW¼, SW¼, Sec. 17, T27S, R25E

Bourbon County

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-69 / Bourbon	SOUNDING NO.	CH-1	SHEET	1 of 3
		PROJ. NO.	KA-1553-02	BRIDGE NO.	69-6-1.29 (095)
SITE NAME	US-69 HWY Over Walnut Creek			HOLE STA.	543+15, 7.0' Lt CL
GEOLOGIST	T. LeSage, G.T.	SCALE	1 inch = 5.0 feet	DATE	January 22, 2015
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	826.09
GW ELEV.	817.7	TOTAL DEPTH	62.6	M/B ELEV.	806.5
GPS COORDINATES 37.692121, -94.704002					

BOREHOLE REPORT - KANSAS DOT. GDT - 4/15/16 14:02 - C:\ITYSON\BRIDGES\BOURBON COUNTY\KA-1553-02 (BOURBON COUNTY)\KA-1553-02 (OVER WALNUT CREEK).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
8" Hollow Augers	Cabaniss Fm.		825	826.1	Silty clay, reddish brown, moist, grades to grayish brown				
			815						
			810	809.6	Silty clay with minor gravel				
			19.6	806.5	Shale, weathered, yellowish brown to gray				
			22.0	804.1	Shale, dark gray, clayey, soft	11.8	1240000		803.59
			24.7	801.4	Limestone, hard, light to dark gray, slightly fossiliferous, mud matrix	8.1	1460000		801.69
			26.9	799.2	Shale, laminated, medium hard, black, slightly fossiliferous, limey	930.0	2.49E+08		800.09
			47.0	1.03E+07		797.79			

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	Cabaniss Fm.	Cabaniss Fm.	3	795	Shale, laminated, medium hard, black, slightly fossiliferous, limey	76.0	1.37E+07		793.89
			32.9	793.2	Limestone, shaley, dark gray, hard	122.0	6.91E+07		791.79
			34.3	791.8	Shale, black, limey, carbonaceous				
			35.8	790	Shale, clayey, soft, medium gray				
			41.8	785	Shale, laminated dark and light gray shales				
			43.5	782.6	Coal, with pyrite	17.5	2760000		782.59
			44.4	781.7	Underclay, light gray, soft				
			46.0	780	Shale, olive-gray, soft, clayey	3.0	161000		779.39
			46.7	779.4	Limestone, dirty, sandy, medium hard				
			47.0	779.1	Shale, clayey, gray, soft				
			49.0	777.1	Shale, gray, with sand seams	48.0	7790000		776.09
	50.4	775	Sandstone, shaley, with cross-laminations, light to dark gray	161.0	8.73E+07		773.49		
							773.09		
	54.3	771.8	Shale, clayey, gray, soft						
	55.9	770	Shale, black, carbonaceous, medium hard	45.0	7770000		768.99		
	58.3	767.8	Coal						
	59.7	766.4	Underclay, gray, no structure	5.0	579000		765.79		
	61.1	765	Shale, clayey, gray, little structure	53.0	1.28E+07		763.69		
			62.6	763.49	T.D. = 62.6				

NQ2 Diamond

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