

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	68-Franklin	SOUNDING NO.	cd-1	SHEET 1 of 3	
BRIDGE STA.	543+12.6: 48.6' Rt	PROJ. NO.	KA-2097-01	BRIDGE NO.	68-30-08.65(070)
SITE NAME	K-68 over Marais Des Cygnes River			HOLE STA.	543+23.15 Of CL
GEOLOGIST	D. Martin, P.G.	SCALE	1 inch = 7.5 feet	DATE	November 6, 2012
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	895.43
GW ELEV.	887.9	TOTAL DEPTH	68.3	M/B ELEV.	879.93

GPS : 38.60847, -95.34936

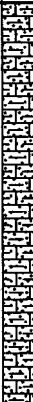

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION	
8" Hollowstem Augers	Mantle		14.0	881.4	GRAVEL, grayish brown, loose				888.43	
			15.5	879.9	CLAYEY SHALE, weathered, blueish gray, Weston Shale				883.43	
NC2 Diamond	Weston Shale Member		19.0	876.4	CLAYEY SHALE, blueish gray or gray, w/ very thin, light gray to white, very fine-grained sandstone stringers, sand content increases with depth, at 35.1' to 37.2' is a zone of convoluted bedding in gray clayey shale having multiple bedding planes orientations, the lower 5' of this shale is very clayey with sand.				874.93	
			1	875					867.53	
			2	870						863.23
			3	865						858.23
			4	860						854.03
			5	855				854.03		
			6	42.7	852.7					

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NQ2 Diamond	Weston Shale Member		6 7 8 9	850 845 840 835	SHALEY SANDSTONE, thinly laminated, interbedded, light gray to dark gray, fine, quartz, soft, wet to flowing, brittle, very saturated, with shalier zones but still very sandy, enough to classify it as a shaley sandstone, many cross-laminations with varying directions				
	South Bend LS Mbr.		10	62.0 830	833.4 SANDY LIMESTONE, fossiliferous, light gray to medium gray, very hard, possibly oolitic, algal remains in upper portion of bed, increasingly fossiliferous with depth including brachiopods and fusulinids, @ 64.5' the limestone becomes very sandy until 67.6', the bottom 0.7' of the bed becomes very dense				832.73
			67.6 67.7 68.3	827.8 827.7 827.13	SHALE, gray SANDY LIMESTONE, light gray T.D. = 68.3				

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