

24-89 K-7431-01

US-24 over UP Railroad

Bridge No. 24-89-17.23(283)EB

Shawnee County

CD 03

N:39.091597 E:-95.748754(Approx.)

SE ¼, NW ¼, SE ¼, Section 16, T11S, R15E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-24-Shawnee	SOUNDING NO.	CD3	SHEET 1 of 4
BRIDGE STA.	120+70	PROJ. NO.	K-7431-01	BRIDGE NO. 24-89-17.22(282)WB
SITE NAME	US-24 over UP Railroad			HOLE STA. 117+50, 64.0' Lt CL
GEOLOGIST	R. Crow	SCALE 1 inch = 5.0 feet	DATE October 13, 2010	
DRILLER	R. Hinderliter	RIG TYPE	CME 75	TOP HOLE ELEV. 896.18
GW ELEV.	874.2	TOTAL DEPTH	88.1	M/B ELEV. 834.48

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
		Alluvium	10.0	886.2	Sand, fine-coarse, tan, wet				
		Alluvium		896.2	Silt with fine sand and some clay binder				

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Flush Joint Casing



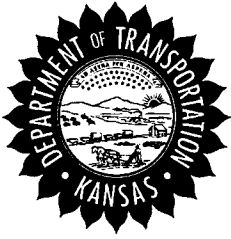
KANSAS DEPARTMENT OF TRANSPORTATION

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		Alluvium		865 860 855 850 845 840 835	Sand, fine-coarse, tan, wet				
Diamond		1	61.7	834.5	Shale, gray, fossiliferous Severy Shale Formation	3.895	196000		833.68
	Coal Ck Limestone	2	63.1	833.1	Limestone, fossiliferous, shaly	282	564000		830.68

Flush Joint Casing

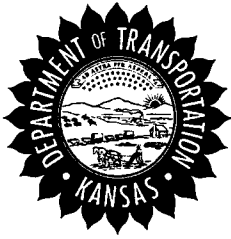


KANSAS DEPARTMENT OF TRANSPORTATION

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Diamond	Hot Shale		66.1	830	830.1	Shale, gray				
			66.5		829.7	Shale, black				
	Du Bois Limestone		68.3		827.9	Limestone, fossiliferous, gray				
			68.9		827.3	Thin limestones and shales, interbedded	52.5	1.12E+07		825.68
	Jones Point Shale		71.3	825	824.9	Limestone, hard, fine				
			71.8		824.4	Shale, greenish gray Turner Creek Shale Member				
	Jones Point Shale		73.1		823.1	Limestone, nearly white, hard, fine				
			74.9		821.3	Shale, gray, clayey				
	Curzon Limestone Member		76.9	820	819.3	Limestone, very hard, gray, fine	191.5	1.47E+08		818.28
			78.1		818.1	Shale, very limy, fossiliferous	140.5	1.01E+08		817.58
	Curzon Limestone Member		80.8	815	815.4	Limestone, gray, very hard, siliceous	510	2.19E+08		814.28
Iowa Pt Sh		86.5	810	809.7	Shale, gray, sandy	488	1.9E+08		810.83	
			88.1	808.08	T.D. = 88.1					

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