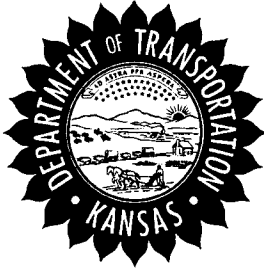


24-89 K-7431-01
 EB & WB US-24 over Menoken Road
 Bridge Nos. 24-89-17.67(296)WB
 Shawnee County
 CD 03
 N:39.091597 E-95.748754 (Approx.)
 SE ¼, NW ¼, SE ¼, Section 16, T11S, R15E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 1 of 4	
BRIDGE STA.	144+18.5	PROJ. NO.	24-89 K-7431-01	BRIDGE NO.	17.67(296)
SITE NAME	WB US-24 over Menoken Road			HOLE STA.	145+43.5, 64.0' Lt CL
GEOLOGIST	R. Crow	SCALE	1 inch = 5.0 feet	DATE	October 20, 2010
DRILLER	R. Hinderliter	RIG TYPE	CME 75	TOP HOLE ELEV.	901.43
GW ELEV.	884.4	TOTAL DEPTH	98.7	MB ELEV.	832.63

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Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
				901.4	Tan/brown silt and fine sand				
				900					
				895	Silty clay, tan, moist	0.496	91700		894.73
				890	Silt, tan, moist	0.1975	29900		889.73
				885		0.925	93100		884.73
				880		1.55	152000		879.73
			24.7	876.7					
				875		0.383	24400		874.73

Flush Joint Casing

Alluvium



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 3 of 4
BRIDGE STA.	144+18.5	PROJ. NO.	24-89 K-7431-01	BRIDGE NO. 17.67(296)
SITE NAME	WB US-24 over Menoken Road			HOLE STA. 145+43.5, 64.0' Lt CL

BOREHOLE REPORT - KANSAS DOT.GDT - 11/24/10 13:24 - G:\GEOLOGY\BRIDGE\24-89 K-7431-01\MENOKEN ROAD\MENOKEN CORE 3.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
	Alluvium			835					
	Coal Creek LS		68.8	832.6	Limestone, shaly, fossiliferous, gray				
	Holt Shale		71.8 72.2	829.6 829.2	Shale, greenish gray Shale, black	90.5	2.99E+07		830.03
	Du Bois Limestone		74.4	827.0	Limestone and shale, interbedded	78.5	3.88E+08		825.53
	TC		76.4	825.0	Shale, gray, sandy				
	Sheldon LS		77.5 78.1 78.7 79.0 79.3 79.5 80.9 81.3 82.1	823.9 823.3 822.7 822.4 822.2 822.0 820.6 820.1 819.3	Limestone, shaly Shale, greenish gray Turner Creek Shale Member Shale, gray, sandy Limestone, hard, gray Shale, very limy with limestone nodule Limestone, vertical fracture Shale, gray, limy Jones Point Shale Member Limestone, shaly, fossil shells, gray 82.1 to 83.7 No recovery Shale, very limy, fossil shells, gray Limestone, hard, fossil shells, occasionally slightly shaly				
	Curzon Limestone		83.7 84.7	817.7 816.7	Shale, very limy, fossil shells, gray Limestone, hard, fossil shells, occasionally slightly shaly				
	Iowa Point		86.8	814.6	Limestone, very hard, siliceous, occasional chert bands, dense, fossiliferous	286.5	1.61E+08		814.43
	Hartford Limestone		91.4 91.6 92.1	810.0 809.8 809.3	Limestone, shaly Limestone, hard, gray Shale, dark gray to gray, clayey				
			93.7 94.2	807.7 807.2	Limestone, shaly, fossiliferous, fusulinids Limestone, very hard, fossiliferous, gray	258.5	1.58E+08		805.83
			98.7	802.73	T.D. = 98.7				



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 4 of 4	
BRIDGE STA.	144+18.5	PROJ. NO.	24-89 K-7431-01	BRIDGE NO.	17.67(296)
SITE NAME	WB US-24 over Menoken Road			HOLE STA.	145+43.5, 64.0' Lt CL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION																																																															
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