

SE 1/4, NW 1/4, Sec. 21, T27S, R18E

Neosho County

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	39-Neosho	SOUNDING NO.	cd-1	SHEET	1 of 3
BRIDGE STA.	133+98: 6	PROJ. NO.	KA-2075-01	BRIDGE NO.	39-67-5.00(099)
SITE NAME	K-39 over Neosho River Drainage			HOLE STA.	133+62.44, 23.5' Rt of CL
GEOLOGIST	D. Martin, P.G.	SCALE	1 inch = 5.8 feet	DATE	December 15, 2011
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	910.49
GW ELEV.	899.5	TOTAL DEPTH	48.3	M/B ELEV.	887.09

N = 37.68256

E = -95.44366

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	Mantle		910	910.5	SILTY CLAY, dark brown, soft				
			905			0.66	67500		903.79
			900						
8" Hollow Augers	Mantle		12.0	898.5	SILTY CLAY, brown, wet, very soft				
			895			0.54	21300		893.89
			890						
8" Hollow Augers	Mantle		19.8	890.7	GRAVEL, saturated, very loose				
			23.4	887.1	SHALE, weathered, brownish gray				
			24.0	886.5	SHALE, gray	5.8	269000		884.79
8" Hollow Augers	Mantle		28.2	882.3	LIMESTONE				
			29.4	881.1	SHALE, black				
			29.9	880.6	LIMESTONE	408	2.23E+08		879.79
8" Hollow Augers	Mantle		33.2	877.3	CLAYEY SHALE, gray				
			33.3	877.2	LIMESTONE, light gray to blueish gray	468	2.78E+08		876.69

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RTE./CO.	39-Neosho	SOUNDING NO.	cd-1	SHEET 2 of 3
BRIDGE STA.	133+98: 6	PROJ. NO.	KA-2075-01	BRIDGE NO. 39-67-5.00(099)
SITE NAME	K-39 over Neosho River Drainage			HOLE STA. 133+62.44, 23.5' Rt of 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
NQ2 Diamond	Dennis Limestone		3	875	LIMESTONE, light gray to blueish gray				
			4	870		116	2.76E+08	869.49	
			5	865		116	1.16E+08	862.89	
			48.3	862.19	T.D. = 48.3				

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RTE./CO.	39-Neosho	SOUNDING NO.	cd-1	SHEET 3 of 3
BRIDGE STA.	133+98: 6	PROJ. NO.	KA-2075-01	BRIDGE NO. 39-67-5.00(099)
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					<table border="1" style="width: 100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th>Core</th> <th>Depth</th> <th>Elev.</th> <th>Cut</th> <th>Rec</th> <th>Rec %</th> <th>RQD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>24.0</td> <td>886.49</td> <td>4.3</td> <td>4.7</td> <td>109</td> <td>26%</td> </tr> <tr> <td>2</td> <td>28.3</td> <td>882.19</td> <td>5.0</td> <td>5.1</td> <td>102</td> <td>96%</td> </tr> <tr> <td>3</td> <td>33.3</td> <td>877.19</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>66%</td> </tr> <tr> <td>4</td> <td>38.3</td> <td>872.19</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>92%</td> </tr> <tr> <td>5</td> <td>43.3</td> <td>867.19</td> <td>5.0</td> <td>5.1</td> <td>102</td> <td>92%</td> </tr> <tr> <td>Total</td> <td>48.3</td> <td>862.19</td> <td>24.3</td> <td>24.9</td> <td>102</td> <td>76%</td> </tr> </tbody> </table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	24.0	886.49	4.3	4.7	109	26%	2	28.3	882.19	5.0	5.1	102	96%	3	33.3	877.19	5.0	5.0	100	66%	4	38.3	872.19	5.0	5.0	100	92%	5	43.3	867.19	5.0	5.1	102	92%	Total	48.3	862.19	24.3	24.9	102	76%				
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