

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	39-Neosho	SOUNDING NO.	cd-2	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.	132+83, 20.0' Lt of CL
GEOLOGIST	K. Halverson, G.A.	SCALE	1 inch = 5.8 feet	DATE	January 31, 2012
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	911.67
GW ELEV.	N/A	TOTAL DEPTH	42.9	M/B ELEV.	888.37

N = 37.682697
E = -95.443928

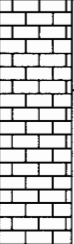
Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
8" Hollowstem Augers	Mantle			911.7	SILTY CLAY, dark brown to black, slightly moist, w/ some gravel				
			3.0	908.7	SILTY CLAY, black, moist, firm to soft				
			9.5	902.2	SANDY CLAY, dark gray, moist, firm to soft, @ 14' became wet				
			21.0	890.7	SANDY CLAY, wet, firm, w/ gravel				
			23.3	888.4	SHALE, non-weathered, gray, hard to medium hard, well compacted				
			25.0	886.7	SANDY SHALE, non-weathered, gray, well compacted				
			27.3	884.4	LIMESTONE, non-weathered, medium bedded, gray, very hard, well cemented	570	2.28E+08		883.07
			28.4	883.3	SKELETAL LIMESTONE, non-weathered, thickly bedded, dark gray, very hard, well cemented skeletal				
			30.0	881.7	SHALE, dark gray, hard				
			30.3	881.4	LIMESTONE, non-weathered, medium bedded, gray to light gray, very hard, well cemented	147	1.35E+08		879.97
NC2 Diamond	Dennis Limestone		31.8	879.9	LIMESTONE, non-weathered, medium bedded, gray to light gray, very hard, well cemented				
			32.2	879.5	SHALEY LIMESTONE, thinly bedded, medium gray, very thin seams less than an inch thick				
			33.2	878.5	LIMESTONE, thickly bedded, gray to light gray, very hard, well cemented	114	7.85E+07		876.67
			33.2	878.5					
			33.5	878.2					

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RTE./CO.	39-Neosho	SOUNDING NO.	cd-2	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. 132+83, 20.0' Lt 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	SHALE, non-weathered, dark gray, hard, well compacted CORALLINE LIMESTONE, thickly bedded, light gray, very hard, occasional thin (<1") shale breaks, fusulinids-rich zone @ 37.38' to 37.55, oil staining @ 38.5' to 39.0', calcite nodules, fossiliferous	254	1.4E+08		874.47
		4	870	190		9.71E+07		872.17	
			42.9	868.77	T.D. = 42.9				

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SITE NAME	K-39 over Neosho River Drainage			HOLE STA. 132+83, 20.0' Lt of CL

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					<table border="1" style="margin: auto; border-collapse: collapse;"> <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>25.0</td> <td>886.67</td> <td>2.9</td> <td>2.8</td> <td>97</td> <td>19%</td> </tr> <tr> <td>2</td> <td>27.9</td> <td>883.77</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>100%</td> </tr> <tr> <td>3</td> <td>32.9</td> <td>878.77</td> <td>5.0</td> <td>4.9</td> <td>98</td> <td>86%</td> </tr> <tr> <td>4</td> <td>37.9</td> <td>873.77</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>94%</td> </tr> <tr> <td>Total</td> <td>42.9</td> <td>868.77</td> <td>17.9</td> <td>17.7</td> <td>99</td> <td>81%</td> </tr> </tbody> </table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	25.0	886.67	2.9	2.8	97	19%	2	27.9	883.77	5.0	5.0	100	100%	3	32.9	878.77	5.0	4.9	98	86%	4	37.9	873.77	5.0	5.0	100	94%	Total	42.9	868.77	17.9	17.7	99	81%				
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