

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-39 / Bourbon	SOUNDING NO.	CH 1	SHEET 1 of 2
		PROJ. NO.	39-6 KA-2053-01	BRIDGE NO. 39-6-6.91(091)
SITE NAME	K-39 over Paint Creek			HOLE STA. 51+55, 20.0' Rt CL
GEOLOGIST	D. Ryan, P.G.	SCALE	1 inch = 5.8 feet	DATE October 19, 2011
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV. 904.4
GW ELEV.	N/A	TOTAL DEPTH	32.9	M/B ELEV. 904.4

N = 37.718135

E = -94.961780

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	Lenapah Limestone Fm		1	904.4	Limestone, gray, hard, slabby				
			2.3	902.1	Shale, clayey, gray	3.3	182000		901.5
			3.0	901.4	Shale, dark-gray				
			4.6	899.8	Limestone, gray	193	5.22E+07		899.3
			5.5	898.9	Shale w/ limestone nodules				
			6.6	897.8	Limestone, shaley, gray				
			7.5	896.9	Shale, gray	6.1	510000		895.9
			8.5	895.9	Shale, blue-green or green-gray				
						76	7.14E+07		893.6
			13.0	891.4	Limestone, gray, pseudo-breccia				
	Nowata Shale Fm		4	889.6	Shale, gray, platy	12.6	1960000		888.5
			18.6	885.8	Shale, clayey				
			20.0	884.4	Shale, dark-gray, firm	84	1.28E+07		883.9
						199	4.62E+07		880.5
			27.4	877.0	Shale, sandy				
			28.1	876.3	Sandstone, shaley, gray, firm				
						324	1.12E+08		873.5
			32.0	872.4	Shale, gray, trace of pyrite				
			32.9	871.5	T.D. = 32.9				



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					<table><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>0.0</td><td>904.4</td><td>3.0</td><td>3.0</td><td>100</td><td>17%</td></tr><tr><td>2</td><td>3.0</td><td>901.4</td><td>5.0</td><td>5.0</td><td>100</td><td>58%</td></tr><tr><td>3</td><td>8.0</td><td>896.4</td><td>5.0</td><td>5.0</td><td>100</td><td>100%</td></tr><tr><td>4</td><td>13.0</td><td>891.4</td><td>5.0</td><td>5.0</td><td>100</td><td>80%</td></tr><tr><td>5</td><td>18.0</td><td>886.4</td><td>4.9</td><td>5.1</td><td>104</td><td>78%</td></tr><tr><td>6</td><td>22.9</td><td>881.5</td><td>5.0</td><td>4.9</td><td>98</td><td>100%</td></tr><tr><td>7</td><td>27.9</td><td>876.5</td><td>5.0</td><td>4.7</td><td>94</td><td>86%</td></tr><tr><td>Total</td><td>32.9</td><td>871.5</td><td>32.9</td><td>32.7</td><td>99</td><td>78%</td></tr></tbody></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	0.0	904.4	3.0	3.0	100	17%	2	3.0	901.4	5.0	5.0	100	58%	3	8.0	896.4	5.0	5.0	100	100%	4	13.0	891.4	5.0	5.0	100	80%	5	18.0	886.4	4.9	5.1	104	78%	6	22.9	881.5	5.0	4.9	98	100%	7	27.9	876.5	5.0	4.7	94	86%	Total	32.9	871.5	32.9	32.7	99	78%			
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