

SE 1/4, SW 1/4, SW 1/4, Sec. 1, T27S, R21E

Bourbon County

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	39-Bourbon	SOUNDING NO.	CD 1	SHEET 1 of 2		
		PROJ. NO.	39-6 KA-2053-01	BRIDGE NO.	39-6-1.20(092)	
SITE NAME	K-39 over Flat Rock Creek			HOLE STA.	20+68.3, 28.0' Lt CL	
GEOLOGIST	K. Halverson, G.A.	SCALE	1 inch = 5.0 feet		DATE	February 1, 2012
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	1001.04	
GW ELEV.	988.2	TOTAL DEPTH	28.9	M/B ELEV.	1000.24	

U = 37.718052

E = -95.068396

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	Alluvium		1	1000	1001.0 Clay, silty, gravel, asphalt cobbles, soft				
					1000.2 Limestone, upper 3.6' is slabby and jointed, tan in color, lower the limestone is gray, with wavy bedded shaley seams, very hard, well-cemented, fossils are found, as well as stylolites. Lower portion is light gray to blue gray with secondary calcite replacement	253	9.59E+07		998.64
NQ2 Diamond	Bethany Falls Ls Mbr		2	995		94.5	8.73E+07		997.84
						435	3.53E+08		994.84
			3	990		418.5	2.15E+08		989.74
						328.5	1.37E+08		984.34
			5	980		2.46	1.64E+08		980.14
						339.5	1.31E+08		976.44
			6	975		99.5	1.64E+07		974.14
	Hushpuckney Sh Mbr		7		Shale, gradual transition from limestone above to limy, gray shale with abundant fossils, widely fractured, well compacted, hard, finely laminated and black near bottom				
			28.9		972.14 T.D. = 28.9				

BOREHOLE REPORT - KANSAS DOT.GDT - 5/10/12 16:55 - C:\CARRIER\BRIDGE\FOR CHANUTE\FLAT ROCK CREEK\FLAT ROCK CREEK KA-2053-01.GPJ



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					<table><tr><th>Core</th><th>Depth</th><th>Elev.</th><th>Cut</th><th>Rec</th><th>Rec %</th><th>RQD</th></tr><tr><td>1</td><td>0.8</td><td>1000.24</td><td>1.6</td><td>1.6</td><td>100</td><td>31□</td></tr><tr><td>2</td><td>2.4</td><td>998.64</td><td>5.0</td><td>5.0</td><td>100</td><td>76□</td></tr><tr><td>3</td><td>7.4</td><td>993.64</td><td>5.0</td><td>5.0</td><td>100</td><td>88□</td></tr><tr><td>4</td><td>12.4</td><td>988.64</td><td>5.0</td><td>5.0</td><td>100</td><td>88□</td></tr><tr><td>5</td><td>17.4</td><td>983.64</td><td>5.0</td><td>5.0</td><td>100</td><td>98□</td></tr><tr><td>6</td><td>22.4</td><td>978.64</td><td>5.0</td><td>5.0</td><td>100</td><td>100□</td></tr><tr><td>7</td><td>27.4</td><td>973.64</td><td>1.5</td><td>1.5</td><td>100</td><td>100□</td></tr><tr><td>Total</td><td>28.9</td><td>972.14</td><td>28.1</td><td>28.1</td><td>1□</td><td>87%</td></tr></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	0.8	1000.24	1.6	1.6	100	31□	2	2.4	998.64	5.0	5.0	100	76□	3	7.4	993.64	5.0	5.0	100	88□	4	12.4	988.64	5.0	5.0	100	88□	5	17.4	983.64	5.0	5.0	100	98□	6	22.4	978.64	5.0	5.0	100	100□	7	27.4	973.64	1.5	1.5	100	100□	Total	28.9	972.14	28.1	28.1	1□	87%			
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