

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-39 / Bourbon	SOUNDING NO.	CH 2	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. 52+29, 53.0' Rt CL
GEOLOGIST	K. Halverson, G.A.	SCALE	1 inch = 6.7 feet	DATE May 30, 2012
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV. 910.35
GW ELEV.	N/A	TOTAL DEPTH	37.7	M/B ELEV. 905.65

N = 37.18342

E = -94.961499

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 NQ2 Diamond		Alluvium			910	910.4	silty sandy clay, brown moist, soft					
		Lenapah Limestone Fm		1	4.7	905	905.7	white, slabby and broken with wavy bedded shaley stringers and FeO staining, finely crystalline, gradational contact to shale below				
				2	10.7	900	899.7	gray to very dark gray, no reaction to HCL, finely bedded	327	1.11E+08		899.85
				3	12.7	897.7	gray to dark gray limey shale, with nodular limestones, clayey in portions, blocky structure, non-uniform bedding planes	1	60600		896.75	
						895		1.9	87700		894.55	
					17.2	893.2	green to gra, finely bedded limey stringers, gradual transition to psuedo breccia					
				4	18.8	891.6	psudo breccia, large irreguarly sub rounded limy globuals, abundant fossils, finely crystalline calcite viens, gradual transition to shale	414	1.74E+08		890.55	
					23.0	887.4	gray, finely bedded with a very clayey lone at 23.1					
					25.3	885	885.1	dark gray finely bedded sandstone and limestone strigners, breaks easily along bedding planes	76	1.3E+07		882.15
				6		880						
					33.1/33.3	877.3/877.1	black coal	70	7870000		876.85	
					light gray clayey shale							
		7	34.9	875	875.5	sharp contact with clayey shale above, very sandy gray shale, transitions to sandstone in lower 1.0 ft.	139	3.7E+08		873.45		
				37.7		872.65	T.D. = 37.7					



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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>4.9</td><td>905.45</td><td>3.0</td><td>3.0</td><td>100</td><td>0%</td></tr><tr><td>2</td><td>7.9</td><td>902.45</td><td>4.9</td><td>4.9</td><td>100</td><td>20%</td></tr><tr><td>3</td><td>12.8</td><td>897.55</td><td>4.9</td><td>4.9</td><td>100</td><td>88%</td></tr><tr><td>4</td><td>17.7</td><td>892.65</td><td>5.0</td><td>5.0</td><td>100</td><td>100%</td></tr><tr><td>5</td><td>22.7</td><td>887.65</td><td>5.0</td><td>4.9</td><td>98</td><td>82%</td></tr><tr><td>6</td><td>27.7</td><td>882.65</td><td>5.0</td><td>5.0</td><td>100</td><td>88%</td></tr><tr><td>7</td><td>32.7</td><td>877.65</td><td>5.0</td><td>8.0</td><td>160</td><td>60%</td></tr><tr><td>Total</td><td>37.7</td><td>872.15</td><td>32.8</td><td>35.7</td><td>109</td><td>100%</td></tr></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	4.9	905.45	3.0	3.0	100	0%	2	7.9	902.45	4.9	4.9	100	20%	3	12.8	897.55	4.9	4.9	100	88%	4	17.7	892.65	5.0	5.0	100	100%	5	22.7	887.65	5.0	4.9	98	82%	6	27.7	882.65	5.0	5.0	100	88%	7	32.7	877.65	5.0	8.0	160	60%	Total	37.7	872.15	32.8	35.7	109	100%			
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