



10-23 K-8392-04

K-10 Over Naismith Creek

Br. 10-23-9.56 (164) (C)

Douglas County

CD 01

N:38.926600 -95.241368 (Approx.)

NW ¼, NW ¼, NW ¼, S18, T13S, R20E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	10-Douglas	SOUNDING NO.	CH-1	SHEET 1 of 2
BRIDGE STA.	701+75	PROJ. NO.	K-8392-04	BRIDGE NO. 10-23-9.56 (164)
SITE NAME	South Lawrence Trafficway, Bridge C			HOLE STA. 701+60.82, 60.8' Lt CL
GEOLOGIST	K. Halverson	SCALE	1 inch = 10.0 feet	DATE December 28, 2010
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV. 818.4
GW ELEV.	N/A	TOTAL DEPTH	87.9	M/B ELEV. 762.9

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
		Alluvium		818.4	Silty Clay, dark brown to black, slightly moist, medium stiff				
			8.0	810.4	Clay, black to dark gray, moist, medium stiff to stiff				
			17.0	801.4	Clay, blue gray, moist, stiff to very stiff, sandy	1.48	95200		797.7
			26.0	792.4	Clay, yellow to blue green, moist to wet, very stiff	1.163	689000		787.7
			35.0	783.4	Clay with fine sand, blue green, moist to wet, very stiff	0.4205	19400		777.7
			51.5	766.9	Sand with gravel and clay, brown, wet, dnese				
			55.5	762.9	Sandstone, weathered, hard, gray, fine grained				
			56.5	761.9	Shale, weathered, olive green, hard sandy				
			56.7	761.7		161.5	6.52E+07		759.3

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8" Hollow Augers



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	10-Douglas	SOUNDING NO.	CH-1	SHEET 2 of 2
BRIDGE STA.	701+75	PROJ. NO.	K-8392-04	BRIDGE NO. 10-23-9.56 (164)
SITE NAME	South Lawrence Trafficway, Bridge C			HOLE STA. 701+60.82, 60.8' Lt CL

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Diamond Stranger Formation	Stranger Formation		2	61.6	756.8	Sandstone, gray, very closely fractured, very hard, frequent Shale seams (less than .02') non-weathered, fine grained, well cemented	12.45	771000	756.3																																																															
			3	63.0	755.4	Shale, gray, sandy, closely fractured, non-weathered, hard, to very hard, well laminated	163	5.91E+07	753.3																																																															
			4	67.9	750.5	Sandstone, gray, very closely fractured, non-weathered, very hard, fine grained, well cemented	228	1.23E+08	748.8																																																															
			5	72.9	745.5	Sandstone, gray, fine grained, non-weathered, closely fractured, very hard, well cemented, occasional maroon Shale seams (less than .02' thick), occasional caol	148.5	7.29E+07	746.7																																																															
			6	77.9	740.5	Sandstone, gray, closely to very closely fractured, non-weathered, very hard, fine grained, well cemented, occasional coal seam, less than 1" thick, trace fossils	167.5	5.56E+07	738.1																																																															
			7	82.9	735.5	Sandstone, gray, closely to very closely fractured, non-weathered, very hard, fine grained, well cemented, occasional coal seam less than 1" thick.	170	5.83E+07	731.9																																																															
			7	87.9	730.5	T.D. = 87.9																																																																		
<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>56.5</td> <td>761.9</td> <td>1.4</td> <td>1.3</td> <td>93</td> <td>0%</td> </tr> <tr> <td>2</td> <td>57.9</td> <td>760.5</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>36%</td> </tr> <tr> <td>3</td> <td>62.9</td> <td>755.5</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>28%</td> </tr> <tr> <td>4</td> <td>67.9</td> <td>750.5</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>94%</td> </tr> <tr> <td>5</td> <td>72.9</td> <td>745.5</td> <td>5.0</td> <td>4.5</td> <td>90</td> <td>64%</td> </tr> <tr> <td>6</td> <td>77.9</td> <td>740.5</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>86%</td> </tr> <tr> <td>7</td> <td>82.9</td> <td>735.5</td> <td>5.0</td> <td>5.0</td> <td>100</td> <td>64%</td> </tr> <tr> <td>Total</td> <td>87.9</td> <td>730.5</td> <td>31.4</td> <td>30.8</td> <td>98</td> <td>59%</td> </tr> </tbody> </table>										Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	56.5	761.9	1.4	1.3	93	0%	2	57.9	760.5	5.0	5.0	100	36%	3	62.9	755.5	5.0	5.0	100	28%	4	67.9	750.5	5.0	5.0	100	94%	5	72.9	745.5	5.0	4.5	90	64%	6	77.9	740.5	5.0	5.0	100	86%	7	82.9	735.5	5.0	5.0	100	64%	Total	87.9	730.5	31.4	30.8	98	59%
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