

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-69 / Bourbon	SOUNDING NO.	CH-2	SHEET	1 of 3
		PROJ. NO.	KA-1553-02	BRIDGE NO.	69-6-1.29 (095)
SITE NAME	US-69 HWY Over Walnut Creek			HOLE STA.	541+62, 28.0' Lt CL
GEOLOGIST	D. Martin, P.G.	SCALE	1 inch = 5.0 feet	DATE	January 28, 2015
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	827.21
GW ELEV.	814.8	TOTAL DEPTH	63.3	M/B ELEV.	801.1
GPS COORDINATES 37.691705, -94.704084					

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	Mantle			827.2	Silty clay, dark brown to black						
				825							
				820				1.1	51200		820.21
				815				0.9	34000		815.21
				13.5	813.7	Gravel, with silty clay					
				14.2	813.0	Silty clay					
				810				0.6	22100		810.21
				20.0	807.2	Gravel, with black clay, grades to light brown clay					
				805							
				26.1	801.1	Limestone, light to dark gray, fossiliferous, very hard, shale stringers □ depths 27.0 to 27.8		735.0	2.19E+08		800.61
	28.3	798.9	Shale, black, carbonaceous, medium hard		35.0	7410000		797.41			

BOREHOLE REPORT - KANSAS DOT.GDT - 4/15/16 14:02 - C:\ITYSON\BRIDGES\BOURBON COUNTY\KA-1553-02 (BOURBON COUNTY)\KA-1553-02 (OVER WALNUT CREEK).GPJ

# KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-69 / Bourbon	SOUNDING NO.	CH-2
		PROJ. NO.	KA-1553-02
		BRIDGE NO.	69-6-1.29 (095)
SITE NAME		US-69 HWY Over Walnut Creek	HOLE STA.
			541+62, 28.0' Lt CL

BOREHOLE REPORT - KANSAS DOT.GDT - 4/15/16 14.02 - C:\T\SONBRIDGES\BOURBON COUNTY\KA-1553-02 (BOURBON COUNTY)\KA-1553-02 (OVER WALNUT CREEK).GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
	Cabaniss Fm		30.0	797.2	Shale, black, carbonaceous, limy, fossiliferous				
			34.3	792.9	Limestone, shaley, dark gray, hard	73.0	1.23E+07		794.41
			35.3	791.9	Shale, black, carbonaceous, limy □ depths 35.3 to 36.8	128.0	4.34E+07		792.41
			37.8	789.4	Limestone, gray, shaley, firm	92.0	1.99E+07		790.81
			38.1	789.1	Shale, gray, becomes clayey with depth, soft				
			46.7	780.5	Coal, black	6.0	365000		785.71
			47.9	779.3	Underclay, gray to light gray				
			48.4	778.8	Shale, clayey, gray, high swell potential, limy stringer □ depths 49.4 to 49.7	9.1	355000		781.81
			51.3	775.9	Shale, sandy, gray, firm				
			53.1	774.1	Sandstone, shaley, hard, gray	78.0	1.74E+07		774.61
	Cabaniss Fm		56.1	771.1	Sandstone, hard, gray	46.0	8000000		772.81
			58.6	768.6	Shale, platy, black, poor stuff				
			60.8	766.4	Coal, black, brittle	280.0	1.09E+08		769.71
			62.3	764.9	Underclay, dark gray				
	62.5	764.7	Shale, gray, firm	7.1	860000		764.31		
	63.3	763.91	T.D. = 63.3						

# KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-69 / Bourbon	SOUNDING NO.	CH-2	SHEET 3 of 3	
		PROJ. NO.	KA-1553-02	BRIDGE NO.	69-6-1.29 (095)
SITE NAME	US-69 HWY Over Walnut Creek			HOLE STA.	541+62, 28.0' Lt CL

BOREHOLE REPORT - KANSAS DOT.GDT - 4/15/16 14:02 - C:\CITYSON\BRIDGES\BOURBON COUNTY\KA-1553-02 (OVER WALNUT CREEK).GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION																																																																																			
					<table border="1" style="width: 100%; border-collapse: collapse; margin: 0 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>26.2</td><td>801.01</td><td>1.6</td><td>1.6</td><td>100</td><td>94%</td></tr> <tr><td>2</td><td>27.8</td><td>799.41</td><td>2.2</td><td>2.1</td><td>95</td><td>41%</td></tr> <tr><td>3</td><td>30.0</td><td>797.21</td><td>2.8</td><td>2.9</td><td>104</td><td>89%</td></tr> <tr><td>4</td><td>32.8</td><td>794.41</td><td>5.0</td><td>4.9</td><td>98</td><td>66%</td></tr> <tr><td>5</td><td>37.8</td><td>789.41</td><td>5.0</td><td>5.2</td><td>104</td><td>64%</td></tr> <tr><td>6</td><td>42.8</td><td>784.41</td><td>0.6</td><td>0.6</td><td>100</td><td>0%</td></tr> <tr><td>7</td><td>43.4</td><td>783.81</td><td>5.0</td><td>5.1</td><td>102</td><td>88%</td></tr> <tr><td>8</td><td>48.4</td><td>778.81</td><td>4.9</td><td>5.2</td><td>106</td><td>59%</td></tr> <tr><td>9</td><td>53.3</td><td>773.91</td><td>5.0</td><td>5.0</td><td>100</td><td>100%</td></tr> <tr><td>10</td><td>58.3</td><td>768.91</td><td>5.0</td><td>4.6</td><td>92</td><td>8%</td></tr> <tr> <td><b>Total</b></td> <td><b>63.3</b></td> <td><b>763.91</b></td> <td><b>37.1</b></td> <td><b>37.2</b></td> <td><b>100</b></td> <td>□□□</td> </tr> </tbody> </table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	26.2	801.01	1.6	1.6	100	94%	2	27.8	799.41	2.2	2.1	95	41%	3	30.0	797.21	2.8	2.9	104	89%	4	32.8	794.41	5.0	4.9	98	66%	5	37.8	789.41	5.0	5.2	104	64%	6	42.8	784.41	0.6	0.6	100	0%	7	43.4	783.81	5.0	5.1	102	88%	8	48.4	778.81	4.9	5.2	106	59%	9	53.3	773.91	5.0	5.0	100	100%	10	58.3	768.91	5.0	4.6	92	8%	<b>Total</b>	<b>63.3</b>	<b>763.91</b>	<b>37.1</b>	<b>37.2</b>	<b>100</b>	□□□			
Core	Depth	Elev.	Cut	Rec	Rec %	RQD																																																																																						
1	26.2	801.01	1.6	1.6	100	94%																																																																																						
2	27.8	799.41	2.2	2.1	95	41%																																																																																						
3	30.0	797.21	2.8	2.9	104	89%																																																																																						
4	32.8	794.41	5.0	4.9	98	66%																																																																																						
5	37.8	789.41	5.0	5.2	104	64%																																																																																						
6	42.8	784.41	0.6	0.6	100	0%																																																																																						
7	43.4	783.81	5.0	5.1	102	88%																																																																																						
8	48.4	778.81	4.9	5.2	106	59%																																																																																						
9	53.3	773.91	5.0	5.0	100	100%																																																																																						
10	58.3	768.91	5.0	4.6	92	8%																																																																																						
<b>Total</b>	<b>63.3</b>	<b>763.91</b>	<b>37.1</b>	<b>37.2</b>	<b>100</b>	□□□																																																																																						