

NE 1/4, NE 1/4, Sec. 25, T26S, R20E Allen County

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	59-Allen	SOUNDING NO.	CD-1	SHEET 1 of 3
BRIDGE STA.	575+00: 6	PROJ. NO.	59-01 KA-1772-01	BRIDGE NO. 59-01-01.72(065)
SITE NAME	US-59 over Canville Creek			HOLE STA 674+60, 68.5' Lt Of CL US-59
GEOLOGIST	R. Ryan, P.G.	SCALE 1 inch = 5.0 feet	DATE April 5, 2012	
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV. 999.3
GW ELEV.	N/A	TOTAL DEPTH	37.9	M/B ELEV. 993.9

N = 37.75908

E = -95.16084

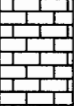
Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
8" Hollow Augers	Mantle			999.3	GRAVELLY CLAY, dark brown				
				995					
NQ2 Diamond	Winterset LS Mbr.		5.4	993.9	SHALEY LIMESTONE, dark gray, hard	171	8.48E+07		993.3
			7.5	991.8	SHALE, dark gray, hard	40.2	6450000		990.6
			8.8	990.5	LIMESTONE, very dark gray, hard				
			10.4	988.9	SHALE, dark gray	570	1.9E+08		987.7
			10.6	988.7	LIMESTONE, gray				
			11.6	987.7	SHALE, dark gray				
			11.8	987.5	LIMESTONE, gray				
			12.1	987.2	SHALE, dark gray, firm	108	6.52E+07		983.1
			12.5	986.8	SHALEY LIMESTONE, fossiliferous, dark gray				
			13.1	986.2	LIMESTONE, bedded, wavy, brownish gray to pinkish gray, hard to dense, w/ few shale stringers, darker at 27.6'				
				980		85.5	7.69E+07		979.1
				975		530	2.86E+08		975.0
			27.9	971.4	LIMY SHALE, black, hard, vertical fracture	209	6.58E+07		970.6
			29.2	970.1	LIMESTONE, brownish gray, dense to hard				

BOREHOLE REPORT - KANSAS DOT.GDT - 5/24/12 14:47 - C:\DENNY\BRIDGES\59-1 KA-1772-01\5901KA177201.GPJ



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	59-Allen	SOUNDING NO.	CD-1	SHEET 2 of 3
BRIDGE STA.	575+00: 4	PROJ. NO.	59-01 KA-1772-01	BRIDGE NO. 59-01-01.72(065)
SITE NAME	US-59 over Canville Creek			HOLE STA. 574+60, 68.5' Lt Of CL US-59

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	Canville Ls		6		LIMESTONE, brownish gray, dense to hard	600	2.01E+08		967.8
	Galesburg SH		34.2 7	965 965.1	CLAYEY SHALE, dark gray to gray	60.5	6640000		964.0
			37.9	961.4	T.D. = 37.9				



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	59-Allen	SOUNDING NO.	CD-1	SHEET 3 of 3
BRIDGE STA.	575+00: 6	PROJ. NO.	59-01 KA-1772-01	BRIDGE NO. 59-01-01.72(065)
SITE NAME	US-59 over Canville Creek			HOLE STA. 574+60, 68.5' Lt Of CL US-59

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><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>5.4</td><td>993.9</td><td>2.5</td><td>2.4</td><td>96</td><td>80</td></tr><tr><td>2</td><td>7.9</td><td>991.4</td><td>5.0</td><td>5.0</td><td>100</td><td>94</td></tr><tr><td>3</td><td>12.9</td><td>986.4</td><td>5.0</td><td>5.0</td><td>100</td><td>96</td></tr><tr><td>4</td><td>17.9</td><td>981.4</td><td>5.0</td><td>5.0</td><td>100</td><td>100</td></tr><tr><td>5</td><td>22.9</td><td>976.4</td><td>5.0</td><td>5.0</td><td>100</td><td>96</td></tr><tr><td>6</td><td>27.9</td><td>971.4</td><td>5.0</td><td>5.0</td><td>100</td><td>96</td></tr><tr><td>7</td><td>32.9</td><td>966.4</td><td>5.0</td><td>5.0</td><td>100</td><td>88</td></tr><tr><td>Total</td><td>37.9</td><td>961.4</td><td>32.5</td><td>32.4</td><td>100</td><td>94%</td></tr></tbody></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	5.4	993.9	2.5	2.4	96	80	2	7.9	991.4	5.0	5.0	100	94	3	12.9	986.4	5.0	5.0	100	96	4	17.9	981.4	5.0	5.0	100	100	5	22.9	976.4	5.0	5.0	100	96	6	27.9	971.4	5.0	5.0	100	96	7	32.9	966.4	5.0	5.0	100	88	Total	37.9	961.4	32.5	32.4	100	94%			
Core	Depth	Elev.	Cut	Rec	Rec %	RQD																																																																	
1	5.4	993.9	2.5	2.4	96	80																																																																	
2	7.9	991.4	5.0	5.0	100	94																																																																	
3	12.9	986.4	5.0	5.0	100	96																																																																	
4	17.9	981.4	5.0	5.0	100	100																																																																	
5	22.9	976.4	5.0	5.0	100	96																																																																	
6	27.9	971.4	5.0	5.0	100	96																																																																	
7	32.9	966.4	5.0	5.0	100	88																																																																	
Total	37.9	961.4	32.5	32.4	100	94%																																																																	