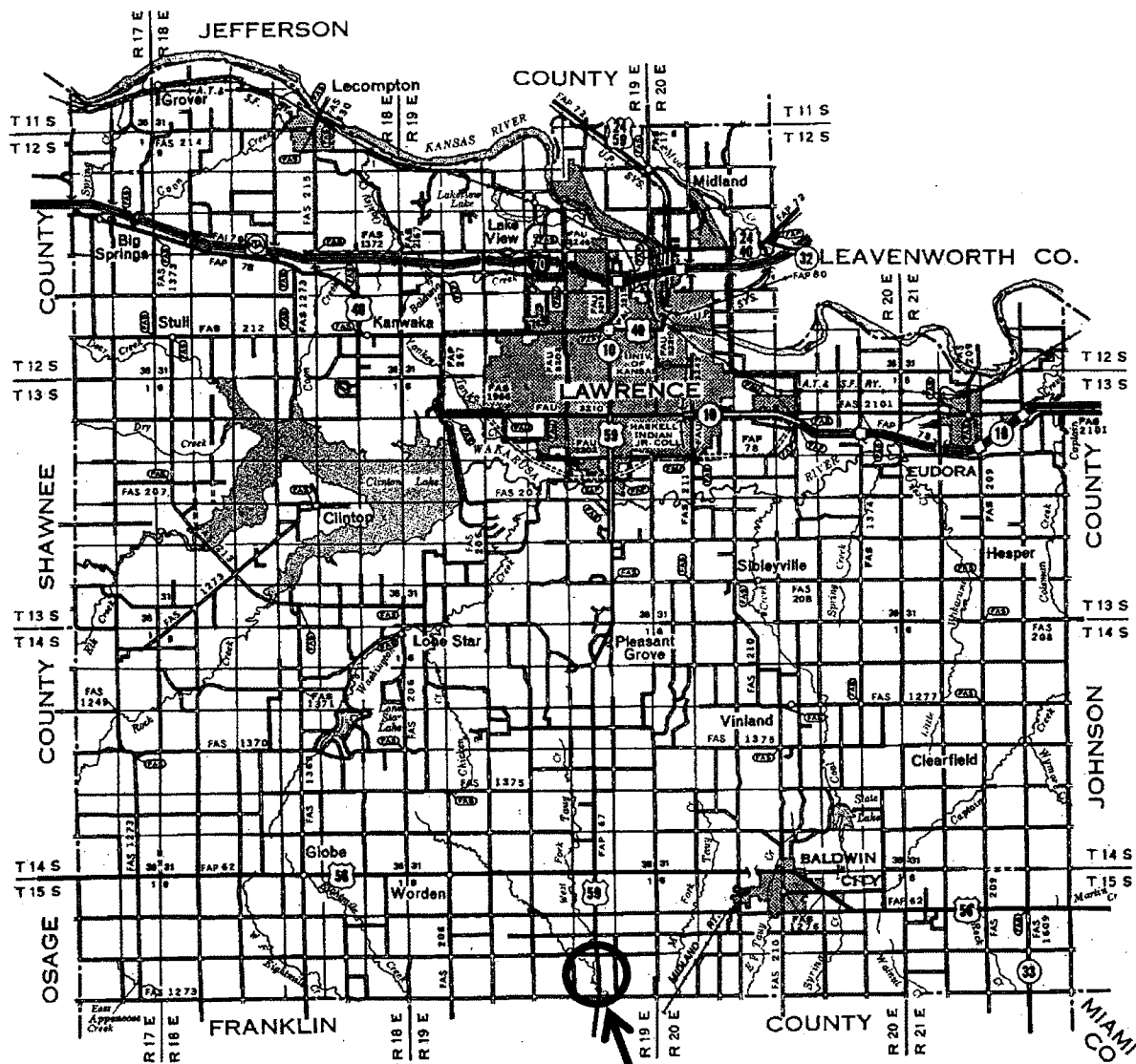




59-23 KA-2059-01 Old US-59 over West Fork Turkey Creek

0.14 miles North of Douglas/Franklin Co. Line

Douglas County

CD ~~01~~ 02

N: 38.740629 E: -95.268371 (Approximate)

NW ¼, SW ¼, SE ¼, Sect 14, T15S, R19E

4/3/2012

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-59 / Douglas	SOUNDING NO.	CD 02	SHEET 1 of 3
		PROJ. NO.	59-23 KA-2059-01	BRIDGE NO. 59-23-00.14(4000)
SITE NAME	Old US-59 over West Fork Taury Creek			HOLE STA. 619+94, 20.0' Rt CL
GEOLOGIST	R. Crow, P.G.	SCALE	1 inch = 5.0 feet	DATE April 3, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV. 954.64
GW ELEV.	N/A	TOTAL DEPTH	57.7	M/B ELEV. 936.34

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			954.6	Silty clay, brown, moist				
				950		2.1	147000		949.94
			8.8	945	Sandy silt, wet	0.2	19800		944.24
	Lawrence Formation		13.8	940	Sand with fines, brown, wet				
			18.3	936.3	Sandstone, gray weathered				
			18.9	935	Sandstone, gray, coarse grained, carboniferous				
			1						
			21.5	933.1	Sandstone, gray, fine grained, micaceous, shaly				
			2	930					
			25.9	928.7	Shale, gray, sandy, light and dark gray thin varves				
			27.7	926.9	Shale, gray, sandy, gypsum veined	17.9	1480000		926.94
			3	925					

BOREHOLE REPORT - KANSAS DOT.GDT - 4/13/12 13:38 - Q:\GEOLOGY\BRIDGE\59-23 KA-2059-01\OLD US59 OVER W FK TAURY CK.GPJ



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-59 / Douglas	SOUNDING NO.	CD 02	SHEET 2 of 3
		PROJ. NO.	59-23 KA-2059-01	BRIDGE NO. 59-23-00.14(4000)
SITE NAME	Old US-59 over West Fork Taury Creek			HOLE STA. 619+94, 20.0' Rt CL

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	Lawrence Formation		3		Shale, gray, sandy, gypsum veined	19.2	1320000		923.44
			32.7	921.9	Shale, gray, sandy	20	1260000		918.84
			4	920					
			5	915		22	3130000		914.64
			42.3	912.3	Coal, black, low density				
			42.8	911.8	Shale, light and dark gray thin varves, sandy, limy, micaceous, carboniferous 0.05' thin coal seam @ 907.2				
			6	910		75	1.13E+07		907.54
			7	905		24	2590000		903.54
			52.7	901.9	Coal, black with tiny white flecks				
			53.1	901.5	Underclay, dark gray				
			53.5	901.1	Shale, gray, clayey with few limy nodules	13.5	1660000		898.64
			56.6	898.0	Core lost				
			57.7	896.94	T.D. = 57.7				

BOREHOLE REPORT - KANSAS DOT.GDT - 4/13/12 13:38 - Q:\GEOLOGY\BRIDGE\59-23 KA-2059-01\OLD US59 OVER W FK TAURY CK.GPJ



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-59 / Douglas	SOUNDING NO.	CD 02	SHEET 3 of 3
		PROJ. NO.	59-23 KA-2059-01	BRIDGE NO. 59-23-00.14(4000)
SITE NAME	Old US-59 over West Fork Tauy Creek			HOLE STA. 619+94, 20.0' Rt CL

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>19.0</td><td>935.64</td><td>3.7</td><td>3.7</td><td>100</td><td>0%</td></tr><tr><td>2</td><td>22.7</td><td>931.94</td><td>5.0</td><td>5.0</td><td>100</td><td>36%</td></tr><tr><td>3</td><td>27.7</td><td>926.94</td><td>5.0</td><td>5.0</td><td>100</td><td>64%</td></tr><tr><td>4</td><td>32.7</td><td>921.94</td><td>5.0</td><td>5.0</td><td>100</td><td>82%</td></tr><tr><td>5</td><td>37.7</td><td>916.94</td><td>5.0</td><td>5.0</td><td>100</td><td>100%</td></tr><tr><td>6</td><td>42.7</td><td>911.94</td><td>5.0</td><td>5.0</td><td>100</td><td>82%</td></tr><tr><td>7</td><td>47.7</td><td>906.94</td><td>5.0</td><td>5.0</td><td>100</td><td>72%</td></tr><tr><td>8</td><td>52.7</td><td>901.94</td><td>5.0</td><td>3.9</td><td>78</td><td>66%</td></tr><tr><td>Total</td><td>57.7</td><td>896.94</td><td>38.7</td><td>37.6</td><td>97</td><td>65%</td></tr></tbody></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	19.0	935.64	3.7	3.7	100	0%	2	22.7	931.94	5.0	5.0	100	36%	3	27.7	926.94	5.0	5.0	100	64%	4	32.7	921.94	5.0	5.0	100	82%	5	37.7	916.94	5.0	5.0	100	100%	6	42.7	911.94	5.0	5.0	100	82%	7	47.7	906.94	5.0	5.0	100	72%	8	52.7	901.94	5.0	3.9	78	66%	Total	57.7	896.94	38.7	37.6	97	65%			
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