



73-105 KA-2092-01 Southbound US-73 over Piper Creek
 1.77 miles North of US 24
 Wyandotte County
 CD 01
 N: 39.681993 E: -96.485183 (Approximate)
 SW ¼, NW ¼, NW ¼, Sect 31, T10S, R23E
 5/27/2011

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	73 / Wyandotte	SOUNDING NO.	CD 01	SHEET 1 of 3	
BRIDGE STA.	178+04.74	PROJ. NO.	73-105 KA-2092-01	BRIDGE NO.	73-105-17.5 (68)
SITE NAME	SB US-73 over Piper Creek		HOLE STA.	178+77, 21.0' Lt CL	
GEOLOGIST	R. Crow, P.G.	SCALE	1 inch = 5.0 feet	DATE	July 27, 2011
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	881.1
GW ELEV.	865.6	TOTAL DEPTH	52.5	M/B ELEV.	875.4

BOREHOLE REPORT - KANSAS DOT.GDT - 4/20/12.15.03 - Q:\GEOLOGY\BRIDGE\73-105 KA-2092-01\US-73 OVER, PIPER CK LOGS.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
8" Hollow Augers	Mantle		880	881.1	Silty clay, brown, gravel, dry to moist fill material				
			4.7	876.4	Silty clay, limestone gravel, quartz pebbles	1	48500		875.4
NQ2 Diamond	Stone LS Member		5.7	875.4	Limestone, white/gray/rust color, broken-fractured	286	1.29E+08		874.9
			8.0	873.1	Limestone, white/gray/rust color, fossil debris	233	1.5E+08		872.4
	Eupora Shale Member		9.0	872.1	Shale, clayey, olive				
			9.5	871.6	Shale, black, broken				
	Cajon Ck LS Mbr		14.1	867.0	Shale, black/olive, clayey				
			14.6	866.5	Limestone, hard, light gray to nearly white, fine	675	1.93E+08		865.8
	Vilas Shale Formation		18.5	862.6	Shale, gray (gradual transition)	880	2.88E+08		863.0
			21.7	859.4	Shale, gray, laminar	10	950000		860.6
			24.3	856.8	Shale, gray, laminar, limy	20	1470000		856.5
			27.5	853.6	Shale, gray, laminar, limy, sandy				



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	73 / Wyandotte	SOUNDING NO.	CD 01	SHEET 2 of 3	
BRIDGE STA.	178+04.74	PROJ. NO.	73-105 KA-2092-01	BRIDGE NO.	73-105-17.5 (68)
SITE NAME	SB US-73 over Piper Creek			HOLE STA.	178+77, 21.0' Lt CL

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NQ2 Diamond

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	Vilas Shale Formation	6		850	Shale, gray, laminar, limy, sandy	68	1.63E+07		850.9
		7		845		20	1860000		845.4
	Plattsburg Limestone Formation	8	37.2	843.9	Limestone, hard, gray, crinoidal and other fossil debris	430	1.86E+08		841.1
		9		835		670	2.51E+08		835.3
		10		830		213	1.32E+08		831.4
			50.6	830.5	Shale, gray, limy				
			51.4	829.7	Limestone, fine, light gray, hard				
			52.3	828.8	Core lost				
			52.5	828.6	T.D. = 52.5				



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RTE./CO.	73 / Wyandotte	SOUNDING NO.	CD 01	SHEET 3 of 3	
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