

KANSAS DEPARTMENT OF TRANSPORTATION



ROUTE-COUNTY NO. 77-58	SOUNDING NO. CD# 1-5	SHEET OF
BRIDGE STA.	PROJECT NO. K-6064-05	BRIDGE NO. 77-58-25.07
DESCRIPTION US-77 Over Spring Creek & 4th RR		HOLE STA. 566+43.24
GEOLOGIST R. Henthorne	VERTICLE SCALE 1" = 10'	DATE 2-17-01
DRILLER J. Burns	RIG CME 55	ELEVATION TOP OF HOLE 1158.34
GROUND WATER ELEV. 1133	TOTAL DEPTH OF HOLE 62.1	ELEVATION TOP OF ROCK 1125.54

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
					Top of hole 1158.24	TSF		
	Hollowstem Auger	Soil Mantle		1150		1.42		
		Schroyer Limestone Member		1140		1.23		
				1130		1.99		
				1125.54		NA		
			32 ft	1124.24	Limestone, Tan Buff			
				1120	Limestone, very shaley, Vuggy Light gray to medium gray	375.9		
						88.6		
				1116.24		31.9		
				1110	Shaly limestone, Gray thin limestone layers	382.6		
						386.5		
				1107.44		62.6		
				1104.04	Shale, Clayey, Med. Gray	11.5		
				1100	Limestone, Light Gray. Dark Gray shale Varves,	330.5		
						77.6		
			62 ft	1096.24				
				1090				

Core	Hole	Soundings	Log	Project 77-58 K-6064-05
				Bridge No. 25.07 (060)
				Bridge Station
				US-77 Over Spring Creek and UP Railroad
				Marshall County
Core Hole #1, Station 566+43, 24 ft. Rt. Centerline, Top Hole Elevation = 1158.34				
6 inch Hollowstem Augers				
		1158.34	0.0-31.8	Fill Material and Soil Mantle
		1126.54	31.8-32.8	Gravel and Sand, Large Limestone Cobbles
		1125.54	32.8-TD	Begin Core
Core # 1		1125.54	0.00-0.2	Chert, Dark Gray
32.8-37.6		1125.34	0.2-1.2	Limestone, Tan-Gray, Fine Grained, Verticle Fractures
Cut 4.8		1124.34	1.2-1.8	Limestone, Dark Gray, Shaley
Rec. 4.8		1123.74	1.8-2.1	Limestone, Light Gray, Vuggy
		1123.44	2.1-4.8	Limestone, Gray, Vuggy, Brachiopods, Shaley near Base
		1120.74	4.8-TD	RQD 72%
Core #2		1120.74	0.0-0.5	Limestone, As before
37.6-42.6		1120.24	0.5-1.0	Limey Shale, Soft. Dark Gray
Cut 5.0		1119.74	1.0-4.5	Limestone, Blue-Gray, Varved with thin shale seams
Rec. 4.8		1116.24	4.5-5.0	Limestone, Shaley, Dark Gray
		1115.74	5.0-TD	RQD = 79%
Core #3		1115.74	0.0-2.1	Limestone, As Above
42.6-47.2		1113.64	2.1-4.6	Shale, Limey, Dark Gray with Verticle Fractures
Cut 4.6		1111.14	4.6-TD	RQD = 95%
Rec. 4.6				
Core #4		1111.14	0.0-3.1	Limestone, Very Shaley, Isolated Chert Nodules
47.2-52.1		1108.04	3.1-3.7	Limestone, Shaley, Mottled Zones of Clay Shale
Cut 4.9		1107.44	3.7-4.9	Shale, Very Clayey, Gypsum Bands-Pink and White
Rec. 4.8		1106.24	4.9-TD	

