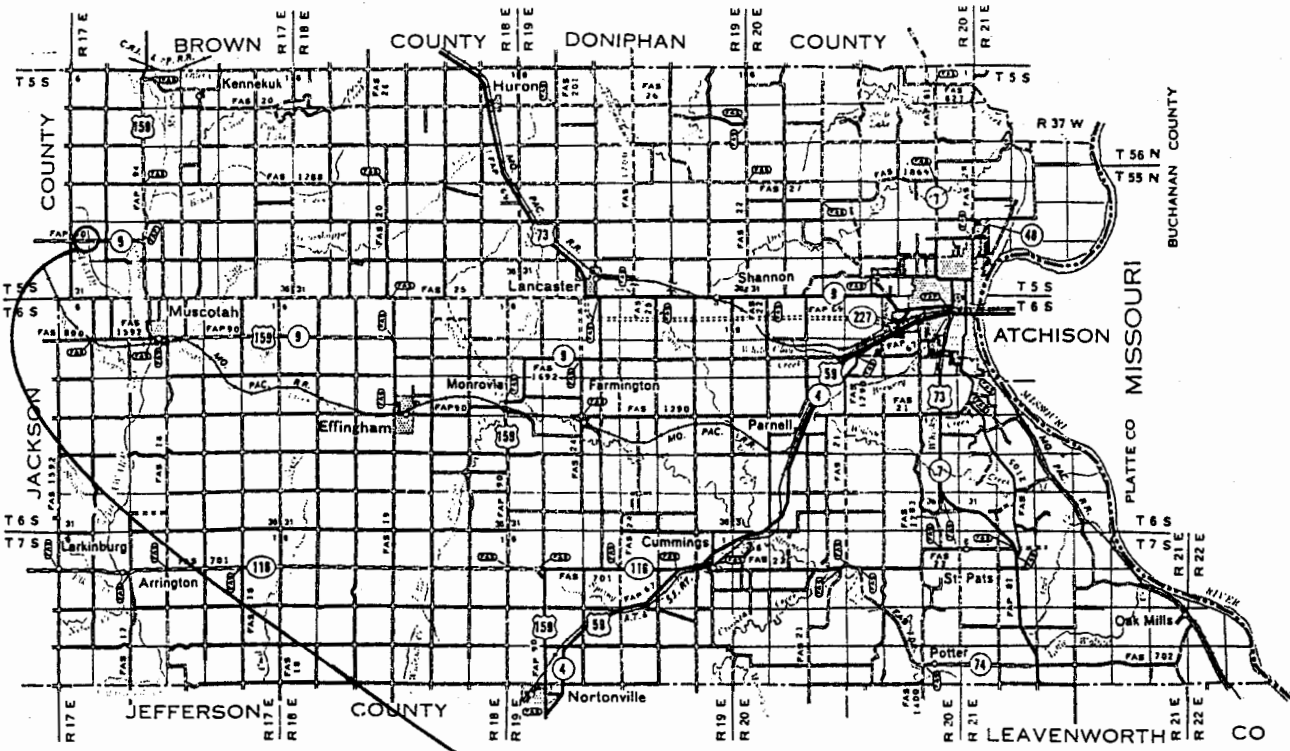


Kansas Department of Transportation

BRIDGE FOUNDATION GEOLOGY REPORT

✓ 2000



30-5-17E

9-3 K-4004-01
Br. No. 00.48
Atchison County

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Atchison* PROJECT NO. *1-3-K-4004-01* BRIDGE NO. *00.48*

DESCRIPTION *K-9 over the Delaware River* STA. *24+57, 21 Rt*

GEOLOGIST *D.L. Thompson* VERTICAL SCALE DATE

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
How. Sill Mantle	Rulo Mbr.	1		34 ⁶	926.7				
				35 ⁸	925	Shale, olive, limy, weathered			
Dica.	Cedar Vale Mbr.	2		36 ⁷	924.6	Limestone, light gray, badly broken, weathered, Shaly			
						Shale, light gray to olive Upper 2.0' slightly weathered.			
				54 ³	907.0	Coal			
				55 ⁸	905.5	Shale, gray to dark gray			
				58 ⁷	902.6	Limestone, shaly, light gray			
	Happy Hollow Mbr.			61 ⁸	899.5				
	White Cloud Mbr.				895	Shale, gray, Firm, occasional limy zone			
				67 ⁹	893.4	TD			

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Atchison* PROJECT NO. *9-3-K-4004-01* BRIDGE NO. *00.48*

DESCRIPTION *K-9 over the Delaware River* STA. *24+57, 21 R-*

GEOLOGIST *D. L. Thompson* VERTICAL SCALE *NA* DATE *11/13/90*

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
						<p>Core #1 35⁵-40⁴ Corer 4⁹ Recov. 3⁸</p> <p>925.8 35⁵ RQD = 49%</p> <p> ----- 0.2 Limestone, shaly, weathered</p> <p> ----- 0.2 badly broken</p> <p> ----- 0.1</p> <p> ----- 0.2</p> <p>924.6 0.2 36⁷</p> <p> ----- 0.4 shale, olive,</p> <p> ----- 0.4 slightly weathered</p> <p> ----- 1.2</p> <p> ----- 0.2 shale, gray, Firm</p> <p> ----- 0.4</p> <p>920.9 1.1 - lost 40⁴</p>			
						<p>Core #2 40⁴-45⁰ Corer 4⁶ Recov. 4⁶</p> <p>920.9 40⁴ RQD = 97.8%</p> <p> ----- 0.5 shale, dark gray</p> <p> ----- 0.1 very Firm</p> <p> ----- 0.5</p> <p> ----- 1.0</p> <p>916.3 2.5 45⁰</p>			