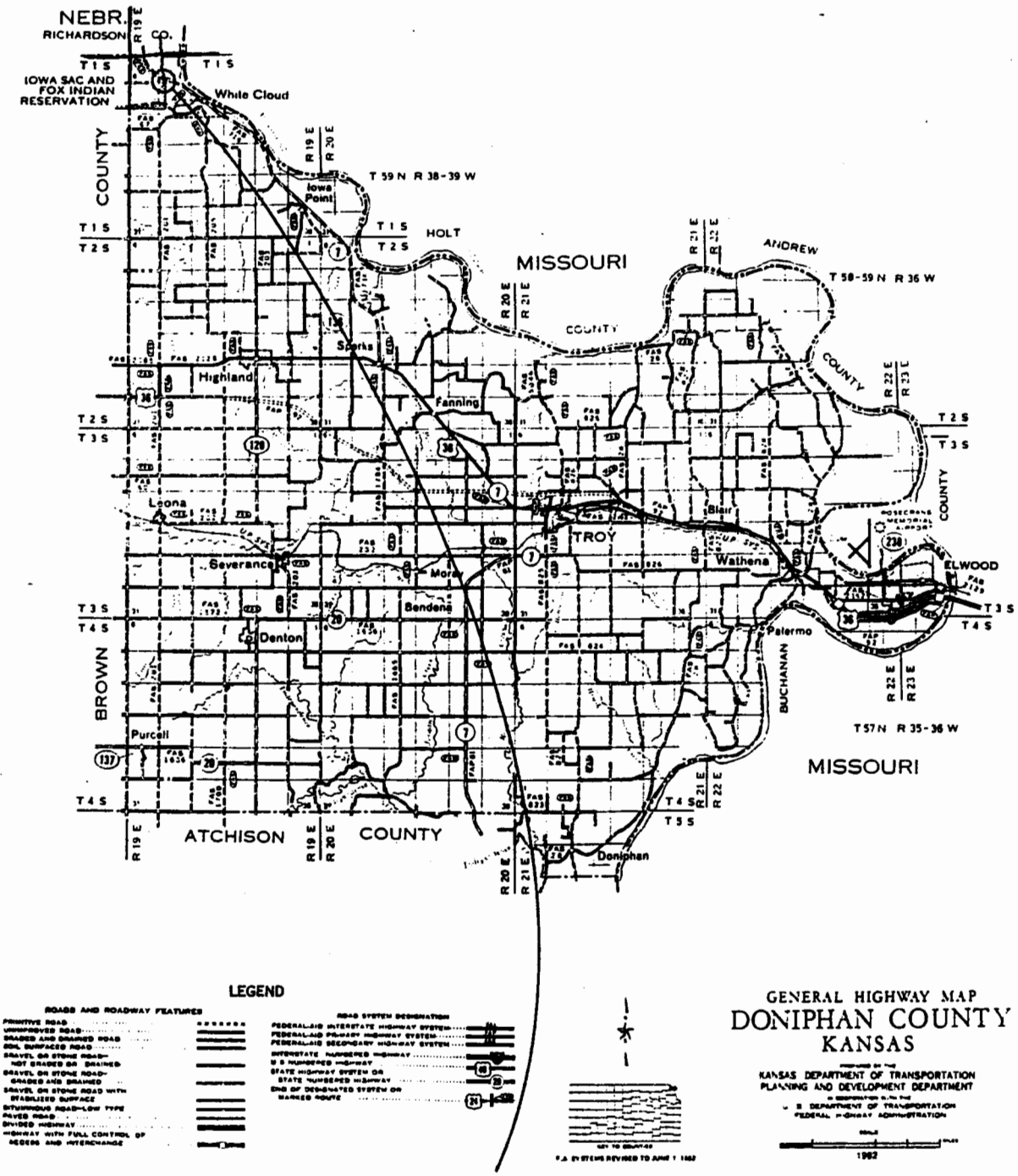
BRIDGE FOUNDATION GEOLOGY REPORT



22

SE-6-15-19E

7-22-K-0243-01
Br. No. 30.92
SQUAW CREEK

ROUTE NO. 7 SOUNDING NO. CD#9 SHEET 1 OF 4

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Doniphan PROJECT NO. 7-22-K-0243-01 BRIDGE NO. 30.92

DESCRIPTION Squaw Creek Br, 1.5mi NW White Cloud STA. 99+30, 11' Rt

GEOLOGIST Clowers VERTICAL SCALE 1" = 5' DATE

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
						THE 858.42		Pushed 4"	
					855	Silty clay, brn. to dk gray		Casing	
					850				
					845				
					840				
					835	Gravel, sand w/ silty clay.			
	Mantle			25°		833.42			
	Utopia Ls Mbr.			25.9		Ls, gray-green, fossiliferous 832.52		Bottom Casing	
		Core 1		27±		Sh, gray, limey stringers. 831.42			
	Winzler Mbr.	Core #2			830	Sh, gmy, firm.			
	Severy Formation Church Ls Mbr	Core #3		31.9		829.02 Qu 7.35	SA#1		
				32.5		826.52 825.92	SA#2 Qu 11.6		
					825		SA#3 825.02 Qu 773.0		
				35°		823.42	SA#4 822.72 Qu 48.5		
				36.9			SA#5 822.12 Qu 130.0		
						TD. 821.52			

Project No. 7-22-K-0243-01
Br. No. 30.92
CD # 9
Core # 1
Depth 25° to 27°
Elev. 833.4 to 831.42

Note: Measurments are in tenths of an inch.

Core Run	Core Sample	Core Recovery	RQD	Description
0				
		.28	—	Ls, gray-green, fossiferous.
		.15	—	
		.25	—	
		.18	—	
1.0		.23	—	
		.35	.35	Shale, gray, limey stringers.
		.08		
		.10		
		.05		
		.03		
		.15		
2.0		.05		
		.04		T.D. 1.9'
3.0				
4.0				
5.0				
	2.0	1.9	.35	Total

Core Recovery = 95%
RQD = 17.5% Very Poor

Project No. 7-22-K-0243-01
Br. No. 30.92
CD #9
Core #2
Depth 27' to 31'
Elev. 831.42 826.52

Core Run	Core Sample	Core Recovery	RQD	Description
0				
		.06	–	
		.10	–	
		.55	.55	Shale, gray, firm.
1.0		.45	.45	
		.50	.50	
		.20	–	
2.0		.45	.45	
		.45	.45	
		.20	–	
3.0		.10	–	
		.35	.35	
		.22	–	
		.18	–	
4.0		.15	–	
		.10	–	
		.24	–	
		.60	.60	
5.0				
	4.9	4.9	3.35	Total

Core Recovery = 100%
RQD = 68% Fair

Project No. 7-22-K-0243-01
Br. No. 30.92
CD # 9
Core # 3
Depth 31' to 36'
Elev. 826.52 to 821.52

Core Run	Core Sample	Core Recovery	RQD	Description
0				
		.15		Shale, gray,
		.05		
		.15		
		.25		
		.30		
1.0				Ls, lt. gray, firm
		.55		
2.0				
		1.65		
3.0				
		.10		
				Shale, blk, hard
		.90		
4.0				
		.60		
5.0		.30		
	5.0	4.9	4.0	Total

Core Recovery = 98%
RQD = 80% Good

D. O. T. Form No. 1124