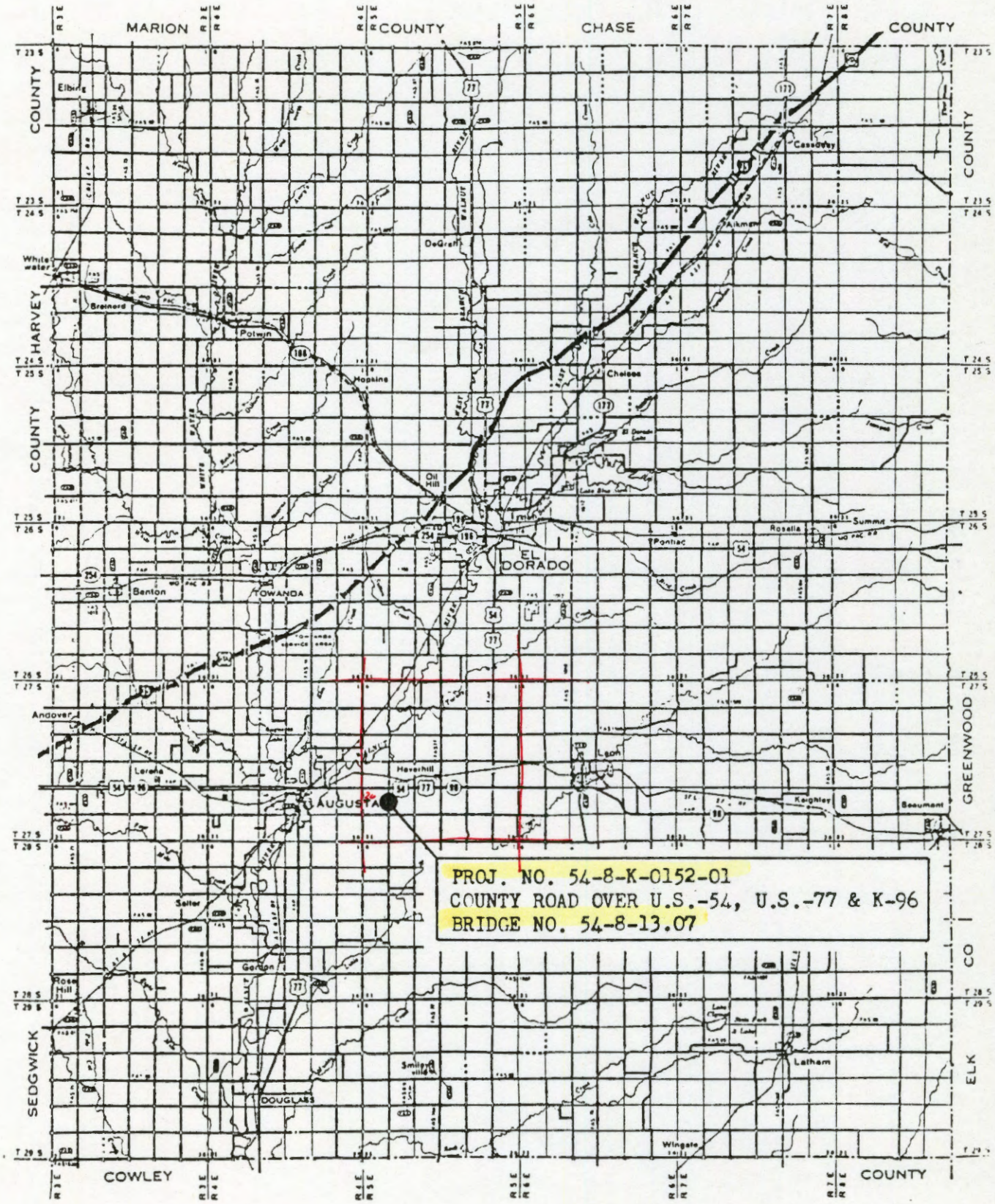

SE-NE-30-27S-5E
0-55'
Chase
Gage shale to Fort Riley Ls

GENERAL HIGHWAY MAP
BUTLER COUNTY
KANSAS

STATE HIGHWAY COMMISSION OF KANSAS
DEPARTMENT OF PLANNING AND DEVELOPMENT

8

SOUNDING DATA

KANSAS DEPARTMENT OF TRANSPORTATION — Sheet 1 of

COUNTY Butler	PROJECT NO. 54-8-K 0152-01		BRIDGE NO. 13.07
℄ STA. 192+77.78	NAME Co. Rd over US 54	STA. 50+85.5	RT/LT 12 SOUND. NO. 2
GROUNDWATER EL. 1280.6	VERTICAL SCALE 1 inch = 10 feet		DATE July, 1980
B.M. NO. 22	B.M. EL. 1333.205	SUBMITTED BY Koontz	

POINT	B.S.	H.I.	F.S.	ELEV.	POINT	B.S.	H.I.	F.S.	ELEV.
See attached sheet.									

FORM	BIT	EL.	LOG	ACC. DEP.	GEOLOGIC DESCRIPTION AND REMARKS	CASING DRIVE REC. DEPTH	BL/10
					T.H.E. 1313.1		
Soil Mantle	5½ inch Hawthorne	1310		1.5	Topsoil, brown, tight 1311.6		
				8.7	Clay, silty, orange-brown to red-orange, slightly sandy 1304.4		
Gage Shale Member	NXM Core Barrel	1300		13.0	Shale, maroon, silty and clayey fairly firm. 1300.1	12.4	
				16.8	Core 1 Cut 3.8 Rec. 1.8 (description on attached sheet) 1296.3	1300.7	
				21.8	Core 2 Cut 5° Rec. 3.9 1291.3		
		1290		26.8	Core 3 Cut 5.0 Rec. 1.2 1286.3		
	Hawthorne "N"			30.5	Shale, gray-green, clayey with some thin impure limestone zones 1282.6		
Towanda Limestone Member		1280		31.3	Limestone, yellow-tan, meaty texture chatter 1281.8		
				32.3	Shale, gray-green, limy and clayey 1280.8		
				38.5	Limestone, lt. gray, some very hard chatter zones, some limy shale breaks. 1274.6		
				40.0	Shale, yellow-tan, v. limy. 1273.1		
Holmesville Shale Mb.		1270		42.7	Limestone, gray to gray-brown, hard, much chatter 1270.4		
				48.6	Shale, gray-green to blue-gray, silty & clayey, fairly firm shale with calcite and limy stringers in lower part. 1264.5		
Fort Riley Ls. Mb.		1260		55.0	Limestone, gray, firm to fairly hard chatter, some shaly zones, contains numerous fossil frags. 1258.1		

Proj. 54-8-K 0152-01

Br. No. 13.07 - Butler Co.

CO #2, Sta. 50+85.5, 12Lt.

Core Description

Core 1		Cut 3.8 Rec. 1.8
	1.0	Shale, maroon, silty with thin siltstone stringers
	0.8	Shale, maroon with some green-gray, clayey
	1.8	Total Recovery
Core 2		Cut 5.0 Rec. 3.9
	3.9	Shale, maroon and green, silty and clayey with some gray-green siltstone zones and stringers.
	3.9	Total Recovery
Core 3		Cut 5.0 Rec. 1.2 (poor recovery: lost much of the softer clayey portion and retained the firmer silty shale)
	1.2	Shale, mostly maroon w/ minor amount of green and gray-green, silty and clayey (in zones) mostly maroon recovered.
	1.2	Total Recovery

Continued drilling with "N" Hawthorne.