

COUNTY <i>Butler</i>			PROJECT NO. <i>54-8-K-0152-01</i>			BRIDGE NO. <i>14.08</i>			
<i>2 STA. 246 + 36.25</i>			<i>NAME Co. Rd. over US-54</i>			<i>STA. 48 + 61</i>			
						<i>RT/ 2 10</i>			
<i>GROUNDWATER EL.</i>			<i>VERTICAL SCALE 1 inch = 10 feet</i>			<i>DATE June 1980</i>			
<i>B.M. NO. 26</i>			<i>B.M. EL. 1363.53</i>			<i>SUBMITTED BY Kboantz</i>			
<i>POINT</i>	<i>B.S.</i>	<i>H.I.</i>	<i>F.S.</i>	<i>ELEV.</i>	<i>POINT</i>	<i>B.S.</i>	<i>H.I.</i>	<i>F.S.</i>	<i>ELEV.</i>

FORM	BIT	EL.	LOG	ACC. DER.	GEOLOGIC DESCRIPTION AND REMARKS	CASING DRIVE REC. DEPTH	FEET
		1370					
					T. H. E. 1365.7		
				1.7	Silty clay, brown	1364.0	
				7.1	Limestone, tan, fairly hard chatter softer below 3" clay in joints, 3" limestone tan drills smooth.	1358.6	
				9.6	Shale with limestone stringers limy, tan smoother below 8" tan limy shale	1356.1	9.6
				16.0	Shale, tan and light gray, limy and clayey soft with firmer limy zones, shale, tan limy, Limestone stringers at 10', shale tan-green to gray green contains thin limy zones, hard to soft shale at 12"	1349.7	1356.1
				21.0	Core 1 Cut 5" Rec 4"	1344.7	
					(See attached sheet)		
				26.2	Core 2 Cut 5" Rec 2"	1339.5	
				26.5	Cleaned with "N" Hawthorne	1339.2	
				31.5	Core 3 Cut 5" Rec 2"	1334.2	
				36.5	Core 4 Cut 5" Rec 2"	1329.2	
				41.5	Core 5 Cut 5" Rec 3"	1324.2	
		1320					

Cresswell
Soil Mantle
Limestone MemberGage
Shale Member
"N" Core Barrel5" Hawthorne
5" Hawthorne
"N" Core Barrel

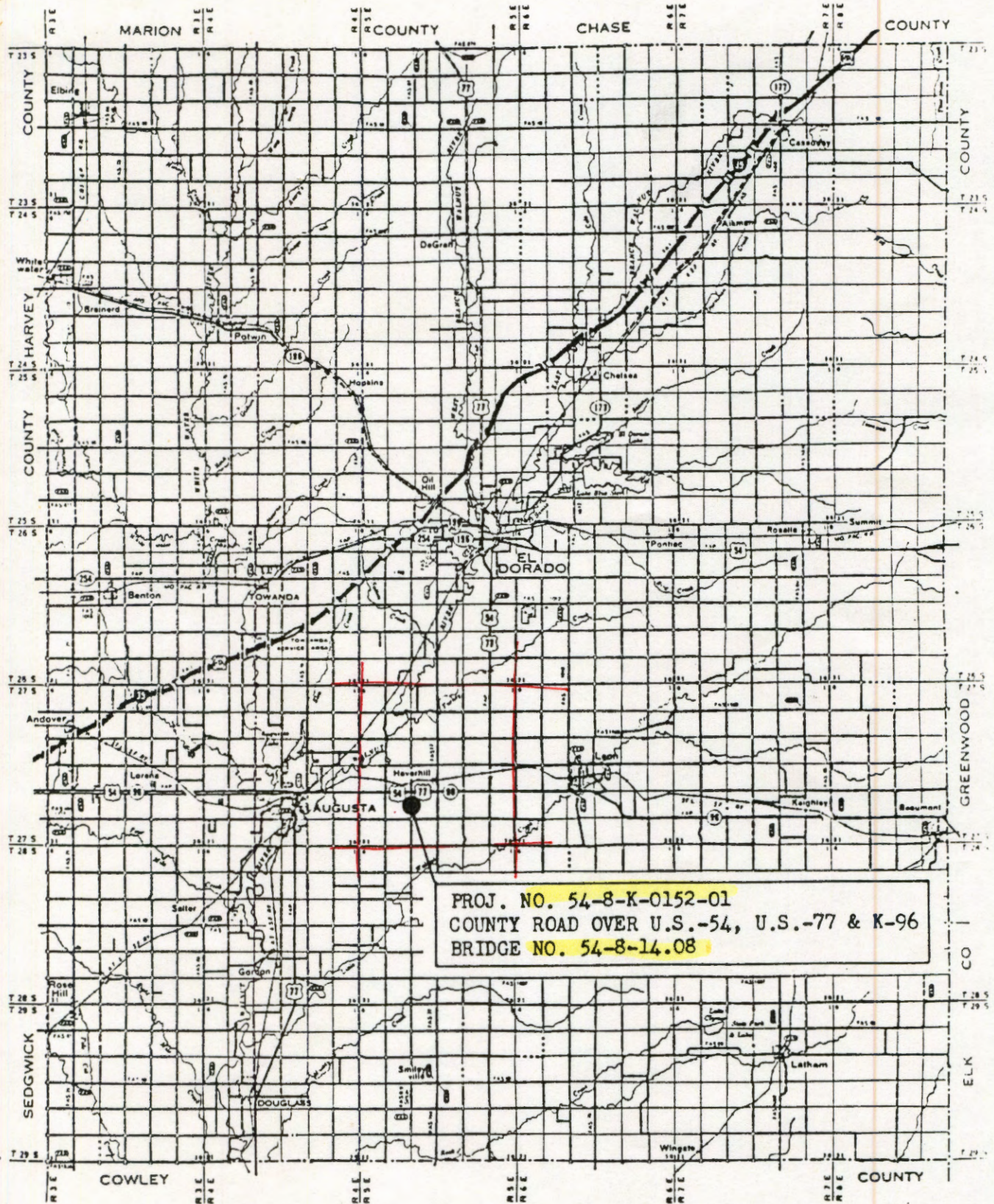
Core description

Proj. 54-8-K 0152-01

Br. No. 14.08 Butler Co.

CD #1 Sta. 48+61 R4.10

Core 1	Cut 5°	Rec 4°
1 ⁷	Shale, tan-green limy	
1 ²	Shale, gray to gray green, limy and clayey	
1 ⁹	Shale, tan-green limy	
4 ⁸	Total Recovery	
Core 2	Cut 5°	Rec 2°
1 ³	Shale, gray-green, limy with thin firmer more limy zones	
1 ³	Shale, maroon, clayey and silty	
2 ⁶	Total Recovery	
Core 3	Cut 5°	Rec 2°
1 ⁹	Shale mostly maroon with some thin gray and gray-green zones some harder zones	
0 ³	Shale, clayey and green	
0 ⁴	Shale, clayey, mostly maroon	
2 ⁶	Total Recovery	
Core 4	Cut 5°	Rec 2°
0 ²	Shale, gray-green, limy	
0 ⁶	Shale, maroon, clayey	
0 ⁵	Shale, green, clayey	
0 ⁹	Shale, maroon, clayey	
2 ²	Total Recovery	
Core 5	Cut 5°	Rec 3°
1 ⁸	Shale, maroon, silty with thin clayey seams (mostly in cuttings)	
0 ¹	Shale, green	
1 ⁵	Shale, maroon with minor green zones mostly clayey with silty zones	
3 ⁴		



NE-SE -29-27S-SE

0-60'
chase

Gage state to Towanda ls



GENERAL HIGHWAY MAP
BUTLER COUNTY
KANSAS

ISSUED BY THE
STATE HIGHWAY COMMISSION OF KANSAS
DEPARTMENT OF PLANNING AND DEVELOPMENT
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE
1" = 10 MILES
1970