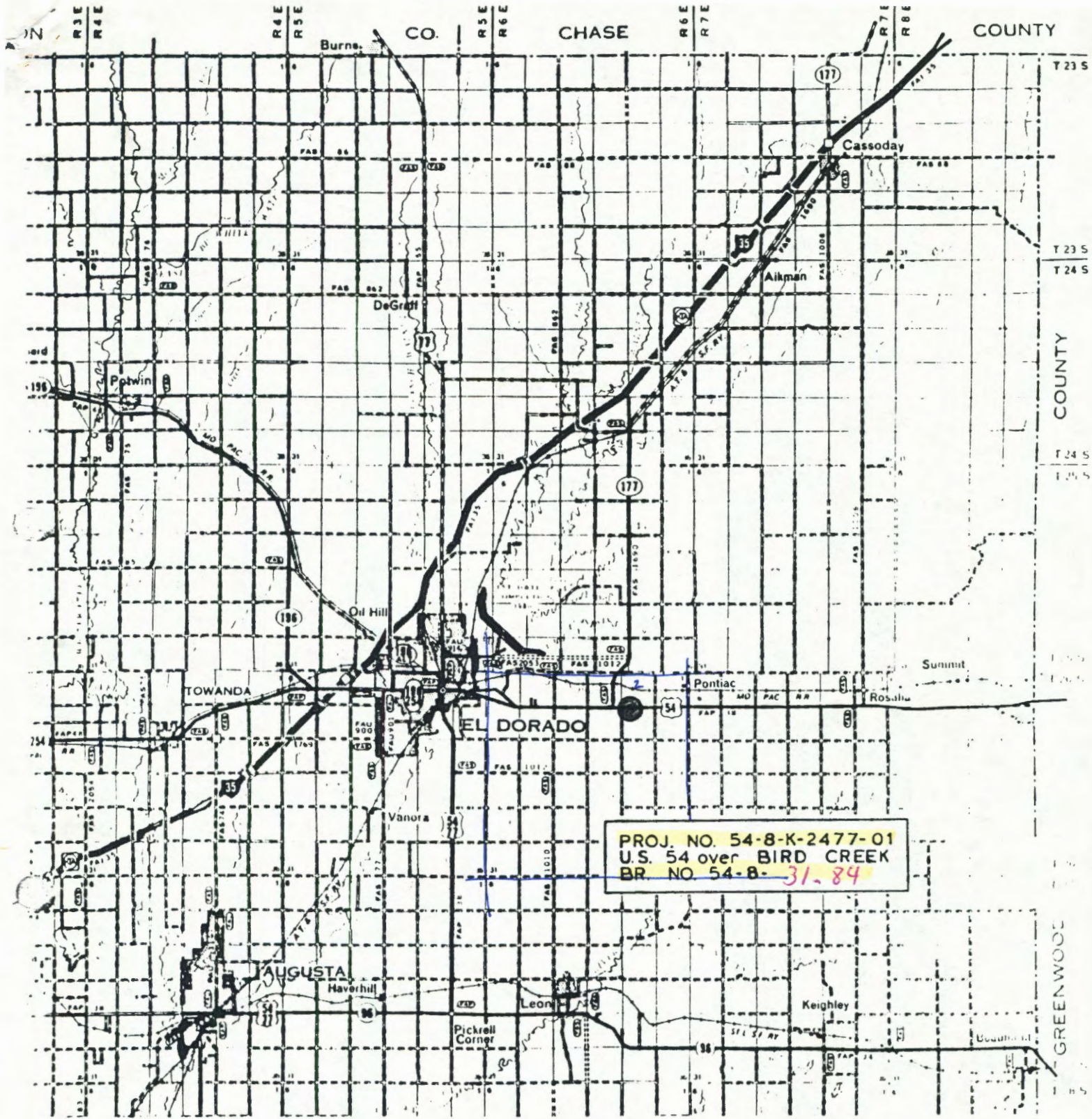




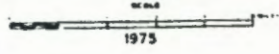
PROJ. NO. 54-8-K-2477-01
 U.S. 54 over BIRD CREEK
 BR. NO. 54-8-31.84

GENERAL HIGHWAY MAP BUTLER COUNTY KANSAS

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



STATE OF KANSAS
 JANUARY 2, 1970



SW-SW-2-26S-6E
 0-40'
 chase
 Blue spring shale
 to
 Kinner Limestone

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Butler* PROJECT NO. *54-8-K2477-01* BRIDGE NO. *31.84*DESCRIPTION *US 54 over Bird Creek* STA. *305+01, Lt. 22*GEOLOGIST *Koonitz* VERTICAL SCALE *1 inch = 10 feet* DATE *7-85*

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
						<i>THE 1348.2</i>		<i>Shallow Sample</i>	<i>1348.2</i>
				<i>3.0</i>		<i>Silty Clay, dark brown 1345.2</i>	<i>1</i>	<i>Pushed</i>	<i>1346.3</i>
				<i>7.5</i>	<i>1340.7</i>	<i>Limestone gravel with silty Clay binder, coarse 1340.7</i>		<i>Bottom</i>	<i>Casing</i>
				<i>8.0</i>	<i>1340</i>	<i>Limestone, hard, tan-gray 1340.2</i>			
				<i>13.0</i>	<i>1334.8</i>	<i>Core #1 Cut 5° Rec 4B (See Attached) 1335.2</i>		<i>CDI-1</i>	
				<i>18.0</i>	<i>1330</i>	<i>Core #2 Cut 5° Rec 4° (See attached) 1330.2</i>		<i>CDI-2</i>	
				<i>23.0</i>		<i>Core #3 Cut 5° Rec 5° (See Attached) 1325.2</i>			
				<i>28.0</i>	<i>1320</i>	<i>Core #4 Cut 5° Rec 4° (See Attached) 1320.2</i>		<i>CDI-3</i>	
				<i>33.0</i>		<i>Core #5 Cut 5° Rec 4° (See Attached) 1315.2</i>		<i>CDI-4</i>	
				<i>33.5</i>	<i>1314.2</i>	<i>Shale, maroon, fairly firm 1314.7</i>		<i>CDI-5</i>	
				<i>34.0</i>		<i>Shale, blue to blue-gray, firm 1314.2</i>			
				<i>40.4</i>		<i>Limestone, tan, hard with softer Shaly zones, dark gray 1307.8</i>			
						<i>T.D. = 40.4 Elev 1307.8</i>			
					<i>1300</i>				
					<i>1290</i>				
					<i>1280</i>				

Florence Member

3 1/2" tri-cone

NXM Core Barrel

Kinney Member

Blue Springs Shale

Soil Mantle

5 1/2" Hawthorne