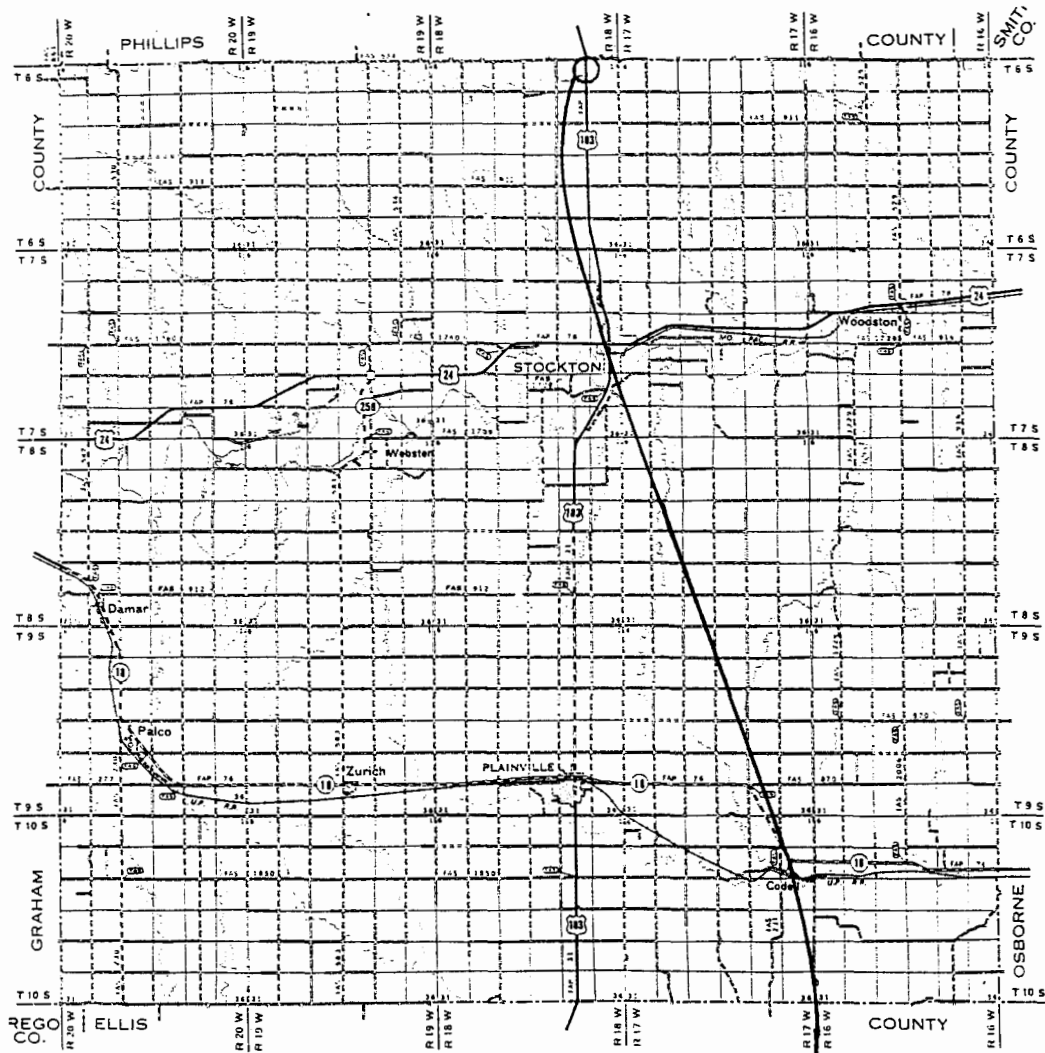


# Kansas Department of Transportation

## BRIDGE FOUNDATION GEOLOGY REPORT

2ACØ



NW NW 1-6-18w



183-82 K-3835-01  
Br. No. 29.92  
Rooks County

# KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Phillips* PROJECT NO. *183-82-K-3835-01* BRIDGE NO. *29.92*

DESCRIPTION *Pier No. 1, 30' Lt. &* STA. *441+21.50*

GEOLOGIST *John Chitwood* VERTICAL SCALE *1" = 10'* DATE *Aug. 14, 1990*

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE		
								BLOWS	ELEV.	
						T.H.EI. 1809.80				
	<i>Alluvium</i>			<i>5<sup>z</sup></i>	<i>1804.1</i>	<i>Silty clay, brown, slightly damp</i>				
				<i>16<sup>b</sup></i>	<i>1793.2</i>					<i>1795.6</i>
	<i>Blue Hill Shale</i>			<i>18<sup>z</sup></i>	<i>1791.1</i>	<i>Sand, coarse, scattered gravel</i>				
				<i>20<sup>e</sup></i>	<i>1789.8</i>	<i>Shale, wtd, gray</i>	<i>Qu = 4.99 TSF</i>	<i>Sa#1</i>	<i>STOPPED DRIVING PRIOR TO REFUSAL</i>	<i>1790.4</i>
				<i>23<sup>z</sup></i>		<i>Shale, clayey, dark gray</i>	<i>Qu = 7.77 TSF</i>	<i>Sa#2</i>		<i>1789.1</i>
				<i>28<sup>z</sup></i>			<i>Qu = 7.89 TSF</i>	<i>Sa#3</i>		<i>1784.2</i>
				<i>32<sup>s</sup></i>			<i>Qu = 9.18 TSF</i>	<i>Sa#4</i>		<i>1779.5</i>
				<i>35<sup>e</sup></i>			<i>Qu = 8.16 TSF</i>	<i>Sa#5</i>		<i>1776.0</i>
				<i>40<sup>e</sup></i>		<i>Qu = 10.15 TSF</i>	<i>Sa#6</i>		<i>1773.6</i>	
						<i>Core No. 1 20<sup>e</sup>-23<sup>z</sup> (1789.8-1786.6)</i>				
						<i>Cut 3<sup>z</sup> - Rec. 3<sup>z</sup></i>				
						<i>R.Q.D. 34% Core Rec. 100%</i>				
						<i>Core No. 2 23<sup>z</sup>-28<sup>z</sup> (1786.1-1781.1)</i>				
						<i>Cut 5<sup>e</sup> - Rec. 4<sup>9s</sup></i>				
						<i>R.Q.D. 74% Core Rec. 99%</i>				
						<i>Core No. 3 28<sup>z</sup>-32<sup>s</sup> (1781.1-1777.3)</i>				
						<i>Cut 3<sup>e</sup> - Rec 3<sup>e</sup></i>				
						<i>RQD 92% CORE REC. 100%</i>				

CARBIDE INSERT  
Bottom Discharge Offset

Core #1  
Core #2  
Core #3  
Core #4  
Core #5  
Core #6

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						<p><u>Core No. 4</u> 32<sup>5</sup> - 35<sup>0</sup> (1777.3 - 1774.8)</p> <p>Cut 2<sup>5</sup> - Rec 2<sup>5</sup></p> <p>RQD 100% Core Rec 100%</p> <p><u>Core No. 5</u>, 35<sup>0</sup> - 40<sup>0</sup> (1774.8 - 1769.8)</p> <p>Cut 5<sup>0</sup> - Rec 5<sup>0</sup></p> <p>RQD 100% Core Rec 100%</p>			