



LEGEND

- ROAD SYSTEM DESIGNATION**
- FEDERAL-AID INTERSTATE HIGHWAY SYSTEM
 - FEDERAL-AID PRIMARY HIGHWAY SYSTEM
 - FEDERAL-AID SECONDARY HIGHWAY SYSTEM
 - INTERSTATE NUMBERED HIGHWAY
 - U.S. NUMBERED HIGHWAY
 - STATE HIGHWAY SYSTEM OR STATE NUMBERED HIGHWAY
 - END OF DESIGNATED SYSTEM OR MARKED ROUTE



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FA SYSTEM REVISED TO OCT. 1, 1981

C-E2-8-95-21E

BRIDGE FOUNDATION GEOLOGY REPORT
 92-52 K 2657-01
 K-92 OVER STRANGER CREEK
 BR. NO. 04.99
 LEAVENWORTH COUNTY

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Leavenworth* PROJECT NO. *92-52-k-2657-01* BRIDGE NO. *04.99*

DESCRIPTION *K-72 over Stranger Crk.* STA. *100+09*

GEOLOGIST *D. L. Thompson* VERTICAL SCALE *1" = 10'* DATE *3-14-88*

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS <i>CU # 1</i> <i>Sta. 98+85, 20 R+</i>	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
	<i>Stranger Fms</i>	<i>3</i>				<i>Shale, gray, Firm</i>	<i>31.8</i>	<i>805.1</i>	
		<i>4</i>			<i>900</i>		<i>34.1</i>	<i>799.9</i>	
		<i>5</i>					<i>32.8</i>	<i>797.3</i>	
		<i>6</i>			<i>83.8</i>	<i>795.2 TD</i>			
					<i>1</i>		<i>Core Descriptions</i>		
					<i>790</i>		<p><i>Core # 1 57^f-62^f Core d 5° Recov. 5°</i> <i>Shale, gray, Firm - upper 0.5 slightly weathered</i> <i>Sample # 1 59°-60°</i> <i>Sample # 2 61°-62°</i> <i>RQD = 58%</i></p> <hr/> <p><i>Core # 2 62^f-67^f Core d 4^f Recov. 4^f</i> <i>Shale, gray, very Firm</i> <i>Sample # 3 63'-63^f</i> <i>Sample # 4 66°-67^f</i> <i>RQD = 95%</i></p> <hr/> <p><i>Core # 3 67^f-72^f Core d 5° Recov. 4^f</i> <i>Shale, dark gray, slightly Fissile</i> <i>Sample # 5 69^f-69^f</i> <i>RQD = 50%</i></p> <hr/> <p><i>Core # 4 72^f-76^f Core d 4^f Recov. 4^f</i> <i>Shale, gray, Firm</i> <i>RQD = 85%</i> <i>Sample # 6 73^f-73^f</i></p> <hr/> <p><i>Core # 5 76^f-79^f Core d 2^f Recov. 2^f</i> <i>Shale gray, Firm</i> <i>Sample # 7 78^f-79^f</i> <i>RQD = 80%</i></p> <hr/> <p><i>Core # 6 79^f-83^f Core d 4^f Recov. 4^f</i> <i>Shale, gray, Firm</i> <i>Sample # 8 80^f-81^f</i> <i>RQD = 75%</i></p>		

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Leavenworth* PROJECT NO. *12-52-K-2657-01* BRIDGE NO. *04.99*

DESCRIPTION *K-12 over Stranger Crk.* STA. *100+09*

GEOLOGIST *D. A. Thompson* VERTICAL SCALE *1' = 10'* DATE *3-17-96*

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS <i>Std. Pen. # 1 Sta. 101+93, 49 hr</i>	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
				0°	876.2				
						<i>Clay, silty, brown</i>			
				10°	866.2	<i>Start Testing</i>			
				11°		<i>#1 10°-10° 1 blow 10°-11° 1 blow 11°-11° 1 blow</i>		<i>#1</i>	864.7
				20°	856.2	<i>Clay, silty, gray-brown</i>			
				21°		<i>#2 20°-20° 1 blow 20°-21° 1 blow 21°-21° 2 blows</i>		<i>#2</i>	854.7
				30°	846.2	<i>Clay, silty to sandy, dark brown</i>			
				31°		<i>#3 30°-30° 1 blow 30°-31° 3 blows 31°-31° 4 blows</i>		<i>#3</i>	844.7
				40°	836.2	<i>Clay, gray, tight</i>			
				41°		<i>#4 40°-40° 2 blows 40°-41° 2 blows 41°-41° 3 blows</i>		<i>#4</i>	834.7
				47°	828.2	<i>Clay, silty, gray-brown</i>			
				48°		<i>#5 47°-47° 1 blow 47°-48° 3 blows 48°-48° 8 blows</i>		<i>#5</i>	827.3
				53°	822.5	<i>Sand, Fine to Med.</i>			
				56°	820	<i>Shale, gray, very firm</i>			

Soil Mantle

Stranger Crk.

Push Casing

TD