

NE 1/4, NE 1/4, Sec. 1, T35S, R21E

Cherokee Co., KS

1053442230



KANSAS DEPARTMENT OF TRANSPORTATION



35S 21E 1

RTE./CO.	US-166 / Cherokee	SOUNDING NO.	CH-02 (027)	SHEET	1 of 3
		PROJ. NO.	166-11 KA-3905-01	BRIDGE NO.	
SITE NAME	US-166 E. of Labette Co. Line (6 bridges)			HOLE STA.	171+52, 101.0' Rt
GEOLOGIST	T. LeSage, G.T.	SCALE	1 inch = 5.0 feet	DATE	August 30, 2016
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	787.49
GW ELEV.	777.0	TOTAL DEPTH	57.9	M/B ELEV.	761.9
GPS COORDINATES 37.032156, -95.051357					

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
NQ2 Diamond	MANTLE			787.5	Silty clay, dark brown, slightly moist, topsoil				
			1.8	785	785.7 Silty clay, brown, stiffer, slightly moist				
				780					
			10.0	777.5	777.5 Silty clay, dark brown, drills softer, moist				
				775					
				770					
NQ2 Diamond			22.0	765	765.5 Gravel, minor, heavier at 23.4', with light brown silty clay, wet				
			25.6	761.9	761.9 Shale, dark gray, very broken up, individual pieces are medium hard				
			1	760					
			2						
			29.4	758.1	758.1 Siltstone, dark brown, hard				

BOREHOLE REPORT - KANSAS DOT GDT - 9/2/16 13:39 - C:\TYSO\BIDGES\CHEROKEE COUNTY\KA-3905-01 (US-166 X 6 BRIDGES)\GINTVKA-3905-01.GPJ

8" Hollow Augers



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-166 / Cherokee	SOUNDING NO.	CH-02 (027)	SHEET 2 of 3
		PROJ. NO.	166-11 KA-3905-01	BRIDGE NO.
SITE NAME	US-166 E. of Labette Co. Line (6 bridges)			HOLE STA. 171+52, 101.0' Rt

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Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
NQ2 Diamond	CHEROKEE GROUP		29.5	758.0	Shale, dark gray, moderately broken up, medium soft				
			31.8	755.7	Siltstone, dark brown, hard				
			32.0	755.5	Shale, dark gray, medium hard, moderately broken up				754.99
			33.7	753.8	Shale, clayey, light gray, very soft to soft				
			35.6	751.9	Shale, clayey, gray, soft, few nodules				751.99
			36.8	750.7	Shale, sandy, black, medium hard				
			37.3	750.2	Shale, clayey, dark gray, soft				
			37.5	750.0	Shale, black, medium hard, very broken up				
			38.5	749.0	Siltstone, hard, dark gray				
			38.6	748.9	Shale, black, medium hard, moderately broken up				
			39.2	748.3	Siltstone, hard, dark brown				
			39.5	748.0	Shale, black, medium soft to medium hard, moderately broken up between 39.5' to 41.5', becomes more intact with depth				746.49
				745					
			44.7	742.8	Shale, clayey, light gray, soft				743.29
			46.5	741.0	Shale, slightly sandy, light gray to olive green, medium hard				741.59
			48.5	739.0	Shale, dark gray with light gray Ss laminations, medium hard, moderately broken up between 49.9 to 50.9				739.99
				735					
									737.69
									734.59
									732.69
			57.3	730.2	Sandstone, light gray, minor Sh partings, hard				730.39
			57.9	729.59	I.D. = 57.9				
					Box 1: 26.5-40.4				
					Box 2: 40.4-52.5				
					Box 3: 52.5-57.9				