

NW 1/4, SE 1/4, Sec. 4, T35S, R25E

35S 25E 4 1053442254
KANSAS DEPARTMENT OF TRANSPORTATIONCherokee County
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Department of Transportation

RTE./CO.	US-166 / Cherokee	SOUNDING NO.	CH-1	SHEET	1 of 2
		PROJ. NO.	166-11 KA-1005-02	BRIDGE NO.	166-11-22.43 (126) & 166-11-22.42 (127) 166-11-22.42 (127)
SITE NAME	NB & SB US-166 over Spring River Drainage-West			HOLE STA.	845+89.5 CL
GEOLOGIST	T. LeSage, G.T.	SCALE	1 inch = 5.0 feet	DATE	October 7, 2015
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV.	880.08
GW ELEV.	N/A	TOTAL DEPTH	15.5	M/B ELEV.	870.6
GPS COORDINATES -37.020683, -94.67237					

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
8" Hollow Stem Augers	Mantle		880	880.1	Heavy gravel with light brown silty clay, gravel is very tight and up to cobble size, silty clay becomes reddish brown with depth				
			875						
			8.5	871.6	Reddish brown clay with coarse chert sand and gravel, easier drilling				
			9.5	870	Chert, white to blue-gray, very fractured, very hard				
			13.0	867.1	Cherty limestone, chert is milky white to blue gray, limestone is gray, very dense/hard, fractures along stylolite seams	850.0	1.95E+08		866.28
NQ2 Diamond	Warsaw-Keokuk Fm		15.5	864.58	T.D. = 15.5 Box 1/2: 9.6-15.5'				

BOREHOLE REPORT - KANSAS DOT GDT - 4/7/16 14:21 - C:\TYSO\B\BRIDGES\CHEROKEE COUNTY\KA-1005-02 (US-166 X 11 BRIDGES)\(126) & (127)\GINTY(126) & (127).GPJ



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-166 / Cherokee	SOUNDING NO.	CH-1	SHEET 2 of 2
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					<table><tr><th>Core</th><th>Depth</th><th>Elev.</th><th>Cut</th><th>Rec</th><th>Rec %</th><th>RQD</th></tr><tr><td>1</td><td>9.6</td><td>870.48</td><td>3.4</td><td>2.1</td><td>62</td><td>0</td></tr><tr><td>2</td><td>13.0</td><td>867.08</td><td>2.5</td><td>2.5</td><td>100</td><td>60</td></tr><tr><td>Total</td><td>15.5</td><td>864.58</td><td>5.9</td><td>4.6</td><td>78</td><td></td></tr></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	9.6	870.48	3.4	2.1	62	0	2	13.0	867.08	2.5	2.5	100	60	Total	15.5	864.58	5.9	4.6	78				
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