



20-7 KA-2054-01 K-20 over South of Fork Wolf Creek

Bridge No. 20-7-20.28(063)

Brown County

CD 02

N: 39.681951 E: -95.368969(Approx.)

SW ¼, SW ¼, SE ¼, Section 23, T04S, R18E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-20 / Brown	SOUNDING NO.	CD 02	SHEET 1 of 3	
BRIDGE STA.	182+28.75	PROJ. NO.	20-7 KA-2054-01	BRIDGE NO.	20-7-20.28(063)
SITE NAME	K-20 over South Fork Wolf River			HOLE STA.	181+80, 50.0' Rt CL
GEOLOGIST	R. Crow, P.G.	SCALE	1 inch = 5.0 feet	DATE	January 5, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	1054.18
GW ELEV.	N/A	TOTAL DEPTH	57.7	M/B ELEV.	1030.38

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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
8" Hollow Augers	Alluvium		1050	1054.2	Silty clay, dark brown, moist				
			1045	1040	1035	22.0	1032.2	Silty clay and gravel, wet	
NQ2 Diamond	Auburn Formation		23.8	1030	1030.4	Sandstone, gray, micaceous, broken			
			1	1025					



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-20 / Brown	SOUNDING NO.	CD 02	SHEET 2 of 3
BRIDGE STA.	182+28.75	PROJ. NO.	20-7 KA-2054-01	BRIDGE NO. 20-7-20.28(063)
SITE NAME	K-20 over South Fork Wolf River			HOLE STA. 181+80, 50.0' Rt CL

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N02 Diamond

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
	Auburn Formation		2	30.7	1023.5	Sandstone, gray, micaceous, slightly shaly	96	2.92E+07	1023.58
			3	32.7	1021.5	Sandstone, gray, micaceous, lime cement	208	8.56E+07	1020.18
			4	36.7 37.2 37.7	1017.5 1017.0 1016.5	Sandstone, gray, shaly Sandstone, gray, micaceous, lime cement Sandstone, shaly, gray, micaceous, cross-bedded	72	2.61E+07	1013.08
			5	45.4	1008.8	Shale, sandy, gray	112	4.22E+07	1006.78
			6	47.7	1006.5	Shale, gray, very limy (nearly a shaly limestone)	50	1.88E+07	1001.88
			7	51.2	1003.0	Shale, gray, limy, sandy	8.8	1300000	996.88
					57.7	996.48	T.D. = 57.7		



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-20 / Brown	SOUNDING NO.	CD 02	SHEET 3 of 3	
BRIDGE STA.	182+28.75	PROJ. NO.	20-7 KA-2054-01	BRIDGE NO.	20-7-20.28(063)
SITE NAME	K-20 over South Fork Wolf River			HOLE STA.	181+80, 50.0' Rt CL

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					<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th>Core</th> <th>Depth</th> <th>Elev.</th> <th>Cut</th> <th>Rec</th> <th>Rec %</th> <th>RQD</th> </tr> </thead> <tbody> <tr><td>1</td><td>24.0</td><td>1030.18</td><td>4.0</td><td>3.5</td><td>88</td><td>0%</td></tr> <tr><td>2</td><td>28.0</td><td>1026.18</td><td>4.7</td><td>4.7</td><td>100</td><td>34%</td></tr> <tr><td>3</td><td>32.7</td><td>1021.48</td><td>5.0</td><td>5.0</td><td>100</td><td>58%</td></tr> <tr><td>4</td><td>37.7</td><td>1016.48</td><td>5.0</td><td>5.0</td><td>100</td><td>28%</td></tr> <tr><td>5</td><td>42.7</td><td>1011.48</td><td>5.0</td><td>5.0</td><td>100</td><td>36%</td></tr> <tr><td>6</td><td>47.7</td><td>1006.48</td><td>5.0</td><td>5.0</td><td>100</td><td>84%</td></tr> <tr><td>7</td><td>52.7</td><td>1001.48</td><td>5.0</td><td>5.0</td><td>100</td><td>82%</td></tr> <tr><td>Total</td><td>57.7</td><td>996.48</td><td>33.7</td><td>33.2</td><td>99</td><td>47%</td></tr> </tbody> </table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	24.0	1030.18	4.0	3.5	88	0%	2	28.0	1026.18	4.7	4.7	100	34%	3	32.7	1021.48	5.0	5.0	100	58%	4	37.7	1016.48	5.0	5.0	100	28%	5	42.7	1011.48	5.0	5.0	100	36%	6	47.7	1006.48	5.0	5.0	100	84%	7	52.7	1001.48	5.0	5.0	100	82%	Total	57.7	996.48	33.7	33.2	99	47%				
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