

N2 NE 32-2-7E

KANSAS DEPARTMENT OF TRANSPORTATION



ROUTE-COUNTY NO. 36-58	SOUNDING NO. CD#1	SHEET 1 OF 2
BRIDGE STA.	PROJECT NO. K-6064-04	BRIDGE NO. 7.81 (054)
DESCRIPTION 115-36 Over Big Blue River & RR		HOLE STA. 412+56
GEOLOGIST B. Hawthorne	VERTICLE SCALE 1" = 10'	DATE 2-2-01
DRILLER J. Burns	RIG CME 55	ELEVATION TOP OF HOLE 1155.14
GROUND WATER ELEV. 1133.0	TOTAL DEPTH OF HOLE 1087.84	ELEVATION TOP OF ROCK 1115.04

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
					Top Hole Elev. 1155.14	KPa		
	Hollowstem Augers Soil Mantle			1150 1140 1130 1120	Silty Clay - brown to dark brown overlying sand and gravel with occasional "Souix" Quartzite Boulder.  Bottom Casing From 1110 to 1107			
	Wymore shale Mbr.	1	40'	1115.04	Shale, clayey, vari-colored Red-Green to green	2380.4		
	Ls Sh	2		1110	1109.14	6240.1		
	"NX" Diamond Schroyer Limestone Member	3			Limestone, shaly, gray to very dark gray Chert nodules, "Blue Valley Agates"	NA		
		4		1100		11330.6		
		5				33834.9		
		6		1090		18226.7		
			673		1087.84 TD	9803.5		
						17757.7		

DRILLING LOG (con't sheet)		1. SOUNDING NO. <i>CD#1</i>		2. PROJECT NO. <i>A-6064-04</i>		3. SHEET 2 OF 2																																																									
4. ELEVATION TOP OF HOLE <i>1155.14</i>		5. GROUND WATER ELEV. <i>1133.0</i>		6. TOTAL DEPTH OF HOLE <i>1087.84</i>		7. ELEVATION TOP OF ROCK <i>1115.04</i>																																																									
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Core	Hole	Soundings	Log	Project 36- 58 K-6064-04
				Bridge No. 36-58-7.81 (054)
				Bridge Station 411+85
				US-36 Over Big Blue River and U.P. Railroad
				Marshall County
Core Hole #1, Station 412+56, 88 ft. Rt. Centerline, Top Hole Elevation = 1155.14				
		6 inch Hollowstem Augers		
		1155.14	0.0-21.8	Silty Clay, Alluvial, Brown to Black, Very Organic Rich
		1133.34	21.8-39.9	Clay and Gravel, Pebble to Cobble Sand
		1115.24	39.9-40.1	Chert and Weathered Shale
		1115.04	40.1-TD	Shale, Begin Core
Core #1		1115.04	0.0-0.5	Shale, Clayey, Red
40.1-42.5		1114.54	0.5-2.4	Shale, Clayey, Green-Gray
Cut 2.4		1112.64	2.4-TD	RQD = 0%
Rec.2.1				
Core #2		1112.64	0.0-3.3	Shale, Green-Gray
42.5-47.5		1109.34	3.3-3.5	Chert Nodule, Blue-Pink
Cut 5.0		1109.14	3.5-5.0	Shale, Gray-Green, Limey, "Blue Valley Agate"
Rec. 5.0		1107.64	5.0-TD	RQD = 100%
Core #3		1107.64	0.0-0.5	Limey-Shale, Gray, "Blue Valley Agate"
47.5-52.5		1107.14	0.5-3.9	Shale, Limey, Dark Gray-Black <i>Btm Casing</i>
Cut 5.0		1103.74	3.9-5.0	Limestone, Fossiliferous, Dark Gray-Black, Coquina
Rec. 5.0		1102.64	5.0-TD	Chert Nodule RQD = 100%
Core #4		1102.64	0.0-5.0	Limestone, Dark Gray, Beds of Black Chert, Vugs-Small
52.5-57.5		1097.64	5.0-TD	RQD = 100%
Cut 5.0				
Rec. 5.0				

