

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 (OS4)
DESCRIPTION 115-36 Over Big Blue River & MRR	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			Silly Clay - brown to dark Brown overlying sand and gravel with occasional "Souix" Quartzite Boulder.			
					BH in Casing From 1110 to 1107			
			40'		1115.04			
	Wymore Shale mbr.	1			Shale, Clayey, Vari-colored Red-Green to Green	2380.4		
		2	46'	1110	1109.14			
	Lm Sh	3			Limestone, shaley, gray to very dark gray Chert Nodules, "Blue Valley Agates"	6240.1		
		4		1100		NA		
		5				11330.6		
		6				33834.9		
						18226.7		
						9803.5		
	Schroyer Limestone Member		67'	1090	1087.84 TD	17757.7		

DRILLING LOG (con't sheet)		SOUNDING NO. CD#1		PROJECT NO. A-6064-07		SHEET 2 OF 2							
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.					
					Core #	Depth	Elev	Cut	Rc	qc	RQD		
					#1	40.1	1115.04	2.4	21	88	.0		
					#2	42.5	1112.64	5.0	5.0	100	100		
					#3	47.5	1107.64	5.0	5.0	100	100		
					#4	52.5	1102.64	5.0	5.0	100	100		
					#5	57.5	1097.64	4.8	4.6	96	96		
					#6	62.3	1092.84	5.0	5.0	100	98		
					Total	67.3 TD	1087.84	27.2	26.7	97	82		

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				

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