

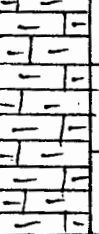
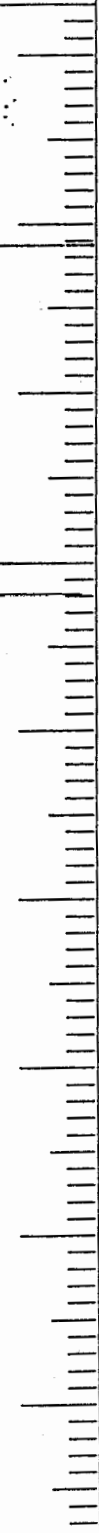
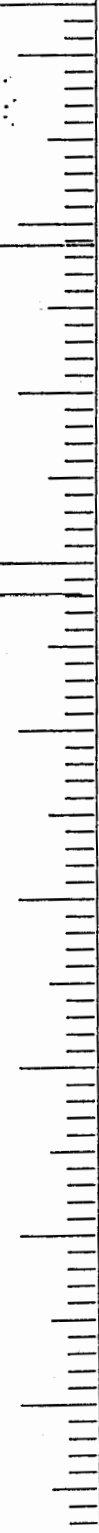
N2 NE 32-2-7E

KANSAS DEPARTMENT OF TRANSPORTATION



1. ROUTE-COUNTY NO. <u>36-58</u>	7. SOUNDING NO. <u>CD #2</u>	2. SHEET <u>1</u> OF <u>2</u>
2. BRIDGE STA.	8. PROJECT NO. <u>K-6064-04</u>	3. BRIDGE NO. <u>7.81 (054)</u>
3. DESCRIPTION <u>US-36 over Big Blue River & UPR RR</u>		4. HOLE STA. <u>401+90</u>
4. GEOLOGIST <u>B. Henthorne</u>	5. VERTICLE SCALE <u>1" = 10'</u>	5. DATE <u>3-8-01</u>
6. DRILLER <u>J. Burns</u>	6. RIG <u>CME 55</u>	6. ELEVATION TOP OF HOLE <u>1160.91</u>
6. GROUND WATER ELEV. <u>Dry</u>	7. TOTAL DEPTH OF HOLE <u>72.0</u>	7. ELEVATION TOP OF ROCK <u>1121.41</u>

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 1160.91	KPD		
	Hollowstem Auger							
	Soil Mantle				Fill material to 1145.0 Fill: Silty Clay, Cobbles of Limestone, Tan-Brown Alluvial mantle material Silty Clay minor amount of sand Brown. Btm casing 1117.0 to 1113.0			
			39.5		1121.41			
			40.0					
	Wymore Shale Member		3		1120	911.4		
			4			11.1		
			5		1110	773.7		
						353.4		
						3213.4		
					1103.46	1869.8		
	Schroyer Limestone Member		6		1100	8686.4		
			7			17762.6		
					Limestone, Shaly, Gray to Dark Gray Isolated Fossiliferous Zones. Cherty Zones			

DRILLING LOG (con't sheet)			SOUNDING NO. <i>CD#2</i>		PROJECT NO. <i>K-6064-04</i>		SHEET <i>2 OF 2</i>	
ELEVATION TOP OF HOLE <i>1060.91</i>			GROUND WATER ELEV. <i>Dry</i>		TOTAL DEPTH OF HOLE <i>1088.91</i>		ELEVATION TOP OF ROCK <i>1121.41</i>	
BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
<i>NX Diamond</i>	<i>Schroyer Limestone Member</i>		<i>6</i>	<i>1100</i>	<i>As before</i>	<i>1869.8</i>		
						<i>8686.4</i>		
						<i>17769.6</i>		
						<i>1347.3</i>		
			<i>72.0</i>	<i>1090</i>	<i>TD: 1088.91</i>	<i>19734.5</i>		
				<i>1080</i>				
<i>Core #</i>	<i>Depth</i>	<i>Elev.</i>	<i>Cut</i>	<i>Revol</i>	<i>%</i>	<i>RQD</i>		
<i>#1</i>	<i>40.0-41.2</i>	<i>1120.91</i>	<i>1.2</i>	<i>1.0</i>	<i>83</i>	<i>70</i>		
<i>#2</i>	<i>41.2-42.3</i>	<i>1119.71</i>	<i>1.1</i>	<i>1.1</i>	<i>100</i>	<i>40</i>		
<i>#3</i>	<i>42.3-47.3</i>	<i>1118.61</i>	<i>5.0</i>	<i>4.3</i>	<i>86</i>	<i>78</i>		
<i>#4</i>	<i>47.3-52.3</i>	<i>1113.61</i>	<i>5.0</i>	<i>5.0</i>	<i>100</i>	<i>84</i>		
<i>#5</i>	<i>52.3-57.0</i>	<i>1108.61</i>	<i>4.7</i>	<i>4.8</i>	<i>102</i>	<i>84</i>		
<i>#6</i>	<i>57.0-62.0</i>	<i>1103.91</i>	<i>5.0</i>	<i>4.8</i>	<i>96</i>	<i>89</i>		
<i>#7</i>	<i>62.0-67.0</i>	<i>1098.91</i>	<i>5.0</i>	<i>5.2</i>	<i>104</i>	<i>86</i>		
<i>#8</i>	<i>67.0-72.0</i>	<i>1093.91</i>	<i>5.0</i>	<i>5.0</i>	<i>100</i>	<i>100</i>		
<i>Total</i>	<i>72.0 TD</i>	<i>1088.91</i>	<i>32.0</i>	<i>21.2</i>	<i>98</i>	<i>90</i>		

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 UP Railroad
				Marshall County
Core Hole #2, Station 401+90, 8 ft. Lt. Centerline, Top Hole Elevation = 1160.91				
	6 inch Hollow Stem Augers			
		1160.91	0.0-10.5	Fill Material, Shale-Clay, Tan Brown
		1150.41	10.5-25.0	Silty Clay, Dry
		1135.91	25.0-39.5	Clay, Stiff
		1121.41	39.5-40.0	Shale
		1120.91	40.0-TD	Begin Core
Core #1		1120.91	0.0-1.2	Shale, Blue-Gray
40.0-41.2		1119.71	1.2-TD	RQD = 70%
Cut 1.2				
Rec. 1.0				
Core #2		1119.71	0.0-1.1	Shale, Blue-Gray
41.2-42.3		1118.61	1.1-TD	RQD = 40%
Cut 1.1				
Rec. 1.1				
Core #3		1118.61	0.0-2.7	Shale, Clayey, Blue-Gray
42.3-47.3		1115.91	2.7-5.0	Shale, Clayey, Red-Umber
Cut 5.0		1113.61	5.0-TD	RQD = 78%
Rec. 4.3				
Core #4		1113.61	0.0-4.4	Shale, Clayey, Red Umber
47.3-52.3		1109.21	4.4-5.0	Shale, Clayey, Gray-Green
Cut 5.0		1108.61	5.0-TD	RQD = 84%
Rec. 5.0				

[illegible]