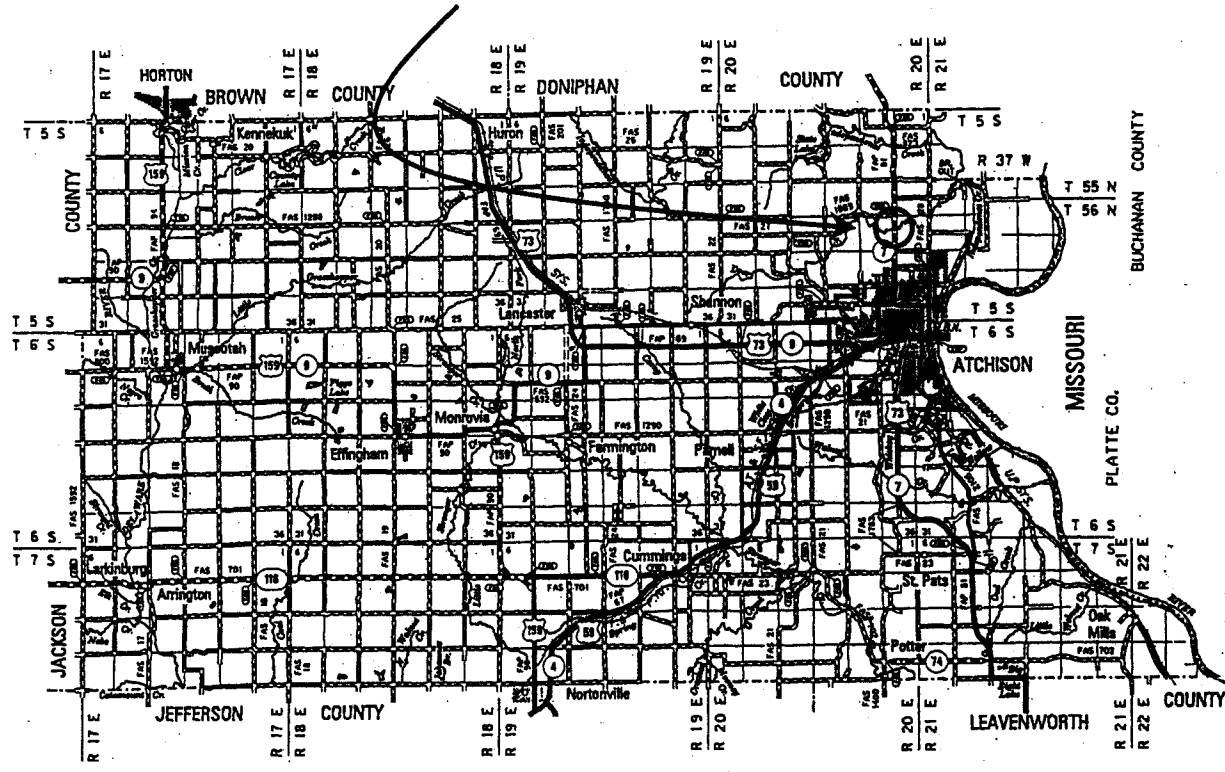


SE NE 23-5-20E

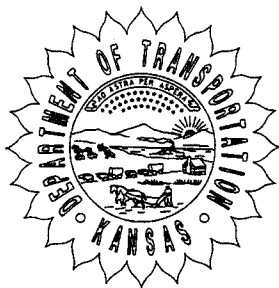
27-1-6

Project 7-3 K-7373-01  
K-7 over Deer Creek



Atchison County

# KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO. 7-3	SOUNDING NO. 1	SHEET 1 OF 1
BRIDGE STA. 2+188.426	PROJ. NO. K-7373-01	BRIDGE NO. 15.14 (056)
SITE NAME K-7 over Deer Creek		HOLE STA. 2+174.426 11m It
GEOLOGIST Denesha	SCALE 1:100 (10mm=1m)	DATE 1/21/03
DRILLER Vervynick	RIG TYPE B-61	TOP HOLE ELEV. 253.64
GW ELEV. <del>+</del> 250.90	TOTAL DEPTH 12.77	M/B ELEV. 250.41

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION kPa	STANDARD PENETRATION TEST (SPT)	
							N COUNT	ELEVATION
					TH Elev. 253.64			
8" Augers	Mantle		3.23	253	Silty, sandy-clay, light to dark brown some limestone gravel near the base			
				252				
				251		*		251
			4.12	250.41				251.37
	Ker-ford		1	250	Limestone-lt. gray, impure, brachiopods common, thin shale break, minor vertical joints	*		249.69 250
	Heumader		2	249	Shale-firm dark gray, finely laminated, limy near top, becomes slightly clayey near base			249
			6.07	248		579		248.47
				248				248
"NX" Diamond	Plattsmouth Limestone Member		3	247	Limestone - light to dark gray, impure with a few thin shale breaks, concentrated beds of fossils throughout, wavy bedded and vertical jointing was noted	21996		247.01 247
				246		26913		246.63
				246		53926		246.02 246
				245	247.57-245.0 d = 0.03 s = 0.18	39842		245.18 245
				244	245.0-241.87 d = 0.06 s = 0.24	28495		244.64
				243		<del>46</del> 45700		243.89 244
			11.77	242	241.87			243.09 243
				242				242
	Heeb-ner		7	241	Shale-firm, dark gray to black	8217		241.32
			12.77	240.87 =TD		13219		240.87 241
				240	* Denotes Broken Sample			

Logs	Elevation (m)	Depth (m)	Description
CD-1 2+174.462	253.64	0.0	Soil Mantle, light brown, sandy, silty-clay
11 m Lt THE = 253.64	250.47	3.17	Limestone gravel
	250.41	3.28	Limestone, Kerford Limestone Member
	250.13	3.51	Began coring
Core #1	250.13	3.51	Limestone, lt gray, impure, fossiliferous, thin bedding,
3.51-4.12			minor vertical jointing
Cut = 0.61	249.64	4.00	Shale, break
Rec = 0.55	249.59	4.05	Limestone, dk. gray, shaley very impure
	249.52	4.12	RQD = 30%
Core #2	249.52	4.12	Shale, dk. gray, limy
4.12-5.64	249.22	4.42	Shale, dk. gray, very firm
Cut = 1.52	248.30	5.34	Shale, dk. gray, firm, slightly laminated
Rec = 1.52	248.00	5.64	RQD = 60%
Core #3	248.00	5.64	Shale, dk. gray, firm, slightly clayey
5.64-7.16	247.57	6.07	Limestone, gray, shaly firm, wavy bedded, abundant
Cut = 1.52			fossils, minor vertical jointing
Rec = 1.52	246.99	6.65	Limestone, lt. gray fossiliferous, minor shale
	246.48	7.16	RQD = 82%
Core #4	246.48	7.16	Limestone, lt gray, fossiliferous, oolitic, minor pink
7.16-8.69			calcite vugs, very shaley, dark gray at bottom tenth
Cut = 1.52	246.02	7.62	Limestone, lt. gray, lacks bedding, angular shale bed
Rec = 1.52	245.74	7.90	Limestone, lt to dk gray, abundant fossils, gradational
			shale-limestone contacts
	245.44	8.20	Limestone, lt to dk gray, wavy beds of fossils
	244.95	8.69	RQD = 96%
Core #5	244.95	8.69	Limestone, dk. to lt gray beds, dk gray fossiliferous
8.69-10.21			lt. gray minor fossils, few styolites
Cut = 1.52	244.25	9.39	Shale, dk. gray, fine bedded
Rec = 1.52	244.16	9.48	Limestone, slightly impure
	243.91	9.73	Limestone, vertical jointing, minor fossils
	243.43	10.21	RQD = 78%
Core #6*	243.43	10.21	Limestone, lt. gray to dk. gray to black, vertical joints,
10.21-11.73			abundant thin fossil beds, fussionids, brachiopods
Cut = 1.52	243.03	10.61	Limestone, lt. gray w/shaly dk. gray, fossils present
Rec = 1.52			wavy bedded
	242.18	11.46	Limestone, dk. gray, shaly
	242.12	11.52	Limestone, lt gray, fossils sparse, but present
	241.91	11.73	RQD = 40%
* this core was extracted			
During the truck sinking	causing	the	problem with the elevations

Core #7	242.39	11.25	Limestone, lt. to dk. gray, dk. gray beds contain fossils
11.25-12.77	241.87	11.77	Shale, med. Gray firm
Cut = 1.52	241.17	12.47	Shale, dark gray to black, fine laminations
Rec = 1.52	240.87	12.77	RQD = 100%