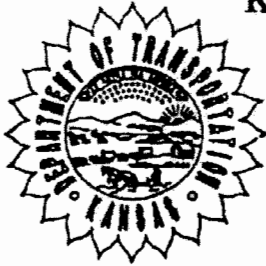


NW 1/4, SE 1/4, Sec. 6, T34S, R17E  
 N = 37.114498  
 E = -95.584292

Montgomery County

KANSAS DEPARTMENT OF TRANSPORTATION



ROUTE-COUNTY NO. 169-63	SOUNDING NO. CD# 1	SHEET 1 OF 1
BRIDGE STA. 499+30.13	PROJECT NO. K-8241-01	BRIDGE NO. 169-63-9.26/098
DESCRIPTION US-169 over Potato Creek		HOLE STA. 2L Sta. 498+27.40' LT.
GEOLOGIST R. Brown	VERTICLE SCALE	DATE 7-17-06
DRILLER J Burns	RIG CME-55	ELEVATION TOP OF HOLE 728.7
GROUND WATER ELEV.	TOTAL DEPTH OF HOLE 63.4'	ELEVATION TOP OF ROCK 705.2

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
			0.0		Top Hole Elev = 728.7			
HOLLOW STEM AUGERS	MANTLE			725	Mantle - Clay, brown, silty, minor gravel @ 710.2, stiff	0.8		721.9
				715		1.0		716.9
1 1/2" DIAMOND BIT	LOST BRANCH (HOLDENHILL) SHALE FM.		2	73.5	705.2	Shale - brown, soft & weathered in top foot. Gray to blue-gray and firm 703.8 to 701.0	14.9	701.9
			3	27.7	700.3	Coal - black, brittle		
	4							
	5							
	6	35.9	695	692.8	Shale - light gray, clayey & soft (underclay) to 698.8. Color changes to gray, less clayey & firmer with depth.	2.4	696.3	
	7							
	8	45.2	675	673.5	Limestone - tan, vuggy, few fossils, hard in top 1.5 feet, then tan & gray, vuggy, secondary calcite, crystalline, hard	401.5	691.5	
	9	45.4		672.8	Shale - gray, limey, firm	323.5	686.6	
	10	55.4	675	673.3	Limestone - gray, dense, slightly chalky pseudo-brachiopods, hard.	125.5	680.3	
	11	58.6		670.1	Shale - dark gray w/ fragments of limestone very limey, hard	500.0	675.5	
				63.4	665	Siltstone - gray, sandy, shaley at base, hard. TD @ 665.3	102.5	672.4
						463.5	666.9	

✓ JB