

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. 169-63-9.26/198
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
				705.2				
6" DIAMOND BIT	LOST BRANCH (HOLDENWILL) SHALE FM.		27.7	701.0	Shale - brown, soft & weathered in top foot. Gray to blue-gray and firm 703.8 to 701.0	14.9		701.9
				700.3	Coal - black, brittle			
				695	Shale - light gray, clayey & soft (underclay) to 698.8. Color changes to gray, less clayey & firmer with depth.	2.4		696.3
				692.8				
				683.5	Limestone - tan, vuggy, few fossils, hard in top 1.5 feet, then tan & gray, vuggy, secondary calcite, crystalline, hard	401.5		691.5
	LENAPAH LIMESTONE FM.		45.2	675		323.5		686.6
				673.3				
				672.8	Shale - gray, limey, firm	125.5		680.3
	NOWATA SHALE FM.		55.4	675	Limestone - gray, dense, slightly chalky, pseudo-brachiopod, hard.	500.0		675.5
				673.3				
				670.1	Shale - dark gray w/ fragments of limestone, very limey, hard	102.5		672.4
			63.4	665	Siltstone - gray, sandy, shaley at base, hard. TD @ 665.3	463.5		665.9

✓ JTB