

BORING LOG		BORING NO. B-04		PAGE 1 OF 2						
CLIENT: CIRCUIT ENGINEERING DISTRICT 8		ENGINEER: TYLER SCHRODER, PE								
LOCATION: INT OF NS255 & EW 52 CO. RDS., MAJOR COUNTY, OK		PROJECT: NEW BRIDGE OVER SAND CREEK-- J/P NO. 28348(04)								
GRAPHICS LOG	LAYER / MATERIAL DESCRIPTION Station= 103+34.81, 11.5 FT LT CL Surface Elev. = 1272.4 feet Veg. Thick.: 18" GR. CVR	DEPTH, FT.	SAMPLES			TESTS				
			USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N BLOWS / FT.	MOISTURE, %	DRY DENSITY, PCF	UNCONFINED STRENGTH, PSF
	MEDIUM STIFF, RED BROWN, LEAN CLAY WITH SAND ELEV. = 1264.9	5	CL	1	SS	18	10	17.0		LL = 37 PI = 18 PI = 19 #200 = 85.0%
	VERY HARD, RED BROWN, LEAN CLAY WITH TRACES OF SAND (SHALEY) ELEV. = 1244.9	10	CL	2	SS	18	42	18.7		LL = 38 PI = 22 PI = 16 #200 = 83.0%
		15	CL	3	SS	18	23	19.8		LL = 36 PI = 24 PI = 12 #200 = 83.0%
		20	CL	4	SS	18	62	17.3		LL = 39 PI = 24 PI = 15 #200 = 88.0%
	25	CL	5	SS	16	24/6" 46/6" 50/5"	15.6		LL = 32 PI = 22 PI = 10 #200 = 88.0%	
30	SOFT, RED BROWN, LEAN CLAY									
REMARKS: SOIL AND ROCK CLASSIFICATIONS ARE FROM DISTURBED SAMPLES. CORE SAMPLES AND FURTHER LABORATORY TESTING MAY REVEAL OTHER ROCK AND/OR SOIL TYPES. THE STRATIFICATION SHOWN IN THE SOIL AND ROCK ABOVE IS AN ESTIMATION OF IN-SITU CONDITIONS. THEREFORE, THE NATURAL TRANSITION BETWEEN SOIL AND ROCK TYPES MAY BE GRADUAL. * ESTIMATED FROM POCKET PENETROMETER						WATER LEVEL OBSERVATIONS WL NONE--WD N/A-AB DATE STARTED 6/10/15				
						WATER LEVEL OBSERVATIONS WL NONE--WD N/A-AB DATE COMPLETED 6/10/15				
ARROWHEAD ENGINEERING COMPANY 3300 108TH AVE SE NORMAN, OK 73026 PHONE (405) 596-2642						RIG CME-75 FOREMAN C.K. REVIEWED C.K. JOB NO. 1441				

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GRAPHICS LOG	LAYER / MATERIAL DESCRIPTION Station= 103+34.81, 11.5 FT LT CL (Continued) ELEV. = 1241.9	DEPTH, FT.	SAMPLES			TESTS					
			USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N BLOWS / FT.	MOISTURE, %	DRY DENSITY, PCF	UNCONFINED STRENGTH, PSF	LIMITS (LL) (PL) INDEXES (PI) #200 SIEVE
	MODERATELY HARD TO HARD, RED BROWN, WEATHERED SHALE (SILTY, SANDY) ELEV. = 1221.38	35	CL	6	SS	9	24/6"	14.5		LL = 30 PI = 18 PI = 12 #200 = 88.0%	
		35		7	TCP	0	50/0.25" 50/0.75"				
		35			RB						
		40		8	TCP	0	50/0.88" 50/0.38"				
		40			RB						
		45		9	TCP	0	50/1.38" 50/0.75"				
45			RB								
50		10	TCP	0	50/0.63" 50/0.25"						
50			RB								
55	Bottom of Boring at 51.02 feet	55		11	TCP	0	50/0.88" 50/0.63"				
60		60									
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