




BORING LOG		BORING NO. B-01		PAGE 1 OF 3							
CLIENT: CIRCUIT ENGINEERING DISTRICT #8		ENGINEER: TYLER SCHRODER, PE									
LOCATION: NS063 OVER SAND CREEK--TEXAS COUNTY, OK		PROJECT: J/P 30490(04)--BRIDGE REPL OVER SAND CREEK									
GRAPHICS LOG	LAYER / MATERIAL DESCRIPTION Station= 105+68.7, 59.6' LT CL SURV. Surface Elev. = 3401.84 feet Veg. Thick.: 6" GRASS COVER	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	
	LOOSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3394.34	5	SM 1	SS	12	7	10.4		LL = NP PL = NP PI = NP #200 = 17.0%		
	MEDIUM DENSE, LIGHT BROWN, POORLY GRADED SAND WITH SILT WITH CALICHE & CALCITE SEAMS ELEV. = 3389.34	10	SP-SM 2	SS	14	19	5.1		LL = NP PL = NP PI = NP #200 = 9.0%		
	MEDIUM DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3384.34	15	SM 3	SS	16	15	4.9		LL = NP PL = NP PI = NP #200 = 24.3%		
	MEDIUM DENSE, LIGHT BROWN, SILTY CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3374.34	20	SC-SM 4	SS	18	24	3.9		LL = 23 PL = 17 PI = 6 #200 = 49.4%		
	MEDIUM DENSE, LIGHT BROWN, SILTY CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3374.34	25	SC-SM 5	SS	18	23	9.1		LL = 24 PL = 18 PI = 6 #200 = 35.0%		
	DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3359.34	35	SC 7	SS	18	32	13.2		LL = 29 PL = 15 PI = 14 #200 = 39.0%		
		40	SC 8	SS	18	28	15.2		LL = 34 PL = 20 PI = 14 #200 = 38.0%		
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						DATE STARTED 9/10/15					
 ARROWHEAD ENGINEERING COMPANY 3300 108TH AVE SE NORMAN, OK 73025 PHONE (405) 596-2642						WATER LEVEL OBSERVATIONS			DATE COMPLETED 9/11/15		
						WL NONE-WD N/A-AB			RIG CME-550X FOREMAN C.K.		
						WL 69 FT-24HR AB (W.I.)			REVIEWED C.K. JOB NO. 1448		

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			USCS SYMBOL NUMBER	TYPE	RECOVERY, IN.	SPT-N BLOWS / FT.	MOISTURE, %	DRY DENSITY, PCF	UNCONFINED STRENGTH, PSF	LIMITS (LL) (PL) INDEXES (PI) #200 SIEVE	
	DENSE, LIGHT BROWN, POORLY GRADED SAND WITH CLAY WITH CALICHE & CALCITE SEAMS ELEV. = 3354.34	45	SP-SC 9	SS	18	33	17.3		LL = 28 PL = 17 PI = 11 #200 = 6.5%		
	DENSE TO VERY DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3344.34	50	SC 10	SS	18	43	19.6		LL = 32 PL = 17 PI = 15 #200 = 37.0%		
		55	SC 11	SS	18	54	20.9		LL = 27 PL = 16 PI = 11 #200 = 43.1%		
	VERY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3333.84	60	SM 12	SS	18	62	6.4		LL = NP PL = NP PI = NP #200 = 18.0%		
		65	SM 13	SS	18	69	6.4		LL = NP PL = NP PI = NP #200 = 19.0%		
		70	SM 14	SS	14	39/6" 50/5"	6.4		LL = NP PL = NP PI = NP #200 = 26.0%		
	EXTREMELY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3281.34	75	SM 15	SS	14	22/6" 50/6"	8.8		LL = NP PL = NP PI = NP #200 = 32.5%		
		80	SM 16	SS	6	50/1"	6.4		LL = NP PL = NP PI = NP #200 = 38.0%		
	Bottom of Boring at 120.50 feet	120	SM 24	SS	6	50/6"	17.0		LL = NP PL = NP PI = NP #200 = 9.9%		
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	EXTREMELY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3304.34	90	SM 18	SS	10	27/6" 50/4.25"	7.6		LL = NP PL = NP PI = NP #200 = 13.1%		
		95	SM 19	SS	7	50/5"	9.2		LL = NP PL = NP PI = NP #200 = 18.7%		
	EXTREMELY DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3299.34	100	SC 20	SS	16	38/6" 50/3.75"	12.0		LL = 24 PL = NP PI = 10 #200 = 38.0%		
		105	SM 21	SS	16	27/6" 50/4.5"	15.6		LL = NP PL = NP PI = NP #200 = 18.7%		
	EXTREMELY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3281.34	110	SM 22	SS	16	46/6" 50/4.5"	15.1		LL = NP PL = NP PI = NP #200 = 17.4%		
		115	SM 23	SS	6	50/6"	17.1		LL = NP PL = NP PI = NP #200 = 10.0%		
		120	SM 24	SS	6	50/6"	17.0		LL = NP PL = NP PI = NP #200 = 9.9%		
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