

BORING LOG		BORING NO. B-04		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= 108+25.4, 14.0' RT CL SURV. Surface Elev. = 3415.1 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																		
	MEDIUM DENSE, LIGHT BROWN, SILTY CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3408.1	5	SC-SM 1	SS	18	11	7.5		LL = 17 PL = 13 PI = 4 #200 = 39.2%																			
	MEDIUM DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3398.1	10	SM 2	SS	18	10	8.3		LL = NP PL = NP PI = NP #200 = 34.7%																			
	MEDIUM DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3392.1	15	SM 3	SS	18	19	9.6		LL = NP PL = NP PI = NP #200 = 37.1%																			
	MEDIUM DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3392.1	20	SC 4	SS	18	21	11.3		LL = 25 PL = 15 PI = 10 #200 = 36.2%																			
	VERY STIFF, LIGHT BROWN, SANDY SILT WITH CALICHE & CALCITE SEAMS ELEV. = 3387.1	25	ML 5	SS	18	25	30.5		LL = NP PL = NP PI = NP #200 = 62.0%																			
	DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS	30	SC 6	SS	18	27	10.5		LL = 22 PL = 14 PI = 8 #200 = 35.2%																			
	DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS	35	SC 7	SS	18	25	25.2		LL = 34 PL = 18 PI = 16 #200 = 49.3%																			
	DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS	40	SC 8	SS	18	25	13.7		LL = 30 PL = 15 PI = 15																			
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						<table border="1"> <tr> <th colspan="2">WATER LEVEL OBSERVATIONS</th> <th colspan="2">DATE STARTED</th> </tr> <tr> <td>WL</td> <td>NONE--WD NONE-AB</td> <td colspan="2">9/11/15</td> </tr> <tr> <th colspan="2">DATE COMPLETED</th> <td colspan="2">9/12/15</td> </tr> <tr> <td>RIG</td> <td>CME-550X FOREMAN C.K.</td> <td colspan="2"></td> </tr> <tr> <td>WL</td> <td></td> <td>REVIEWED</td> <td>C.K. JOB NO. 1448</td> </tr> </table>			WATER LEVEL OBSERVATIONS		DATE STARTED		WL	NONE--WD NONE-AB	9/11/15		DATE COMPLETED		9/12/15		RIG	CME-550X FOREMAN C.K.			WL		REVIEWED	C.K. JOB NO. 1448
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	DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS (Continued) ELEV. = 3367.1	45	SC 9	SS	18	33	10.4		LL = 30 PL = 17 PI = 13 #200 = 39.7%																			
	VERY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3362.1	50	SM 10	SS	18	68	12.6		LL = NP PL = NP PI = NP #200 = 40.1%																			
	DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3357.1	55	SM 11	SS	18	28	6.9		LL = NP PL = NP PI = NP #200 = 19.9%																			
	VERY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3342.1	60	SM 12	SS	18	50	6.1		LL = NP PL = NP PI = NP #200 = 22.6%																			
	VERY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3342.1	65	SM 13	SS	18	59	6.5		LL = NP PL = NP PI = NP #200 = 33.7%																			
	DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS	70	SM 14	SS	18	73	9.3		LL = NP PL = NP PI = NP #200 = 33.0%																			
	DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS	75	SM 15	SS	18	40	4.9		LL = NP PL = NP PI = NP #200 = 21.2%																			
	DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS	80	SM 16	SS	18	50	5.3		LL = NP PL = NP PI = NP #200 = 20.6%																			
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	DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS (Continued) ELEV. = 3327.1	85	SM 17	SS	18	41	4.0		LL = NP PL = NP PI = NP #200 = 20.4%																			
	VERY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3322.1	90	SP-SM 18	SS	18	67	3.4		LL = NP PL = NP PI = NP #200 = 12.5%																			
	EXTREMELY DENSE, LIGHT BROWN, CLAYEY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3317.1	95	SC 19	SS	18	24/6" 50/2.5"	4.8		LL = 23 PL = 14 PI = 9 #200 = 40.7%																			
	VERY DENSE, LIGHT BROWN, POORLY GRADE SAND WITH SILT WITH CALICHE & CALCITE SEAMS ELEV. = 3307.1	100	SP-SM 20	SS	18	72	12.1		LL = NP PL = NP PI = NP #200 = 12.0%																			
	VERY DENSE, LIGHT BROWN, POORLY GRADE SAND WITH SILT WITH CALICHE & CALCITE SEAMS ELEV. = 3307.1	105	SP-SM 21	SS	18	63	3.6		LL = NP PL = NP PI = NP #200 = 9.0%																			
	EXTREMELY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3294.68	110	SM 22	SS	10	47/6" 50/4.5"	3.6		LL = NP PL = NP PI = NP #200 = 14.7%																			
	EXTREMELY DENSE, LIGHT BROWN, SILTY SAND WITH CALICHE & CALCITE SEAMS ELEV. = 3294.68	115	SM 23	SS	6	50/5"	8.6		LL = NP PL = NP PI = NP #200 = 17.8%																			
	Bottom of Boring at 120.42 feet	120	SM 24	SS	6	50/5"	8.7		LL = NP PL = NP PI = NP #200 = 17.7%																			
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