

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark				
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker				GROUND WATER (ft)		
BORING NO.: B-711				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA		
GROUND ELEV.: -1.1 ft (NAVD88)				NORTHING: 397,086 US ft (NAD83/90)				EASTING: 875,885 US ft (NAD83/90)				24 HR. NA		
TOTAL DEPTH: 151.7 ft				BORING DIAMETER: 4" to 30.5', 3" to 151.7'				CASING DEPTH: 4" to 30.5', 3" to 123.0'				HAMMER (ID):140 lb. Auto (07)		
DATE STARTED: 3/4/08				COMPLETED: 3/6/08				CORE SIZE: HQ3				BITS USED: 3 7/8" Tricone		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	▼ MOI	L O G	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100				
-150.7					Continued from previous page									
-151.3	150.2	3	6	10	16					711-14			-152.8 150.2ft: fine to coarse grained sand, fine to coarse gravel Boring Terminated at Elevation -152.8 ft	151.7



SHEET 1 OF 2

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DATE STARTED: 3/4/08		COMPLETED: 3/6/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS			
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %					
										Begin Coring @ 30.5 ft			
-31.6	30.5	5.0	0:43 1:03 2:31	(5.0) 100%	(3.5) 70%	RUN-1	(16.6) 93%	(13.5) 75%		LIMESTONE, boundstone, white (5Y8/1), hard, wet, strong HCl reaction, indurated, highly fragmented (Upper Fort Thompson Formation) (continued) 30.5ft: hard, indurated, few to little vugs, fossiliferous, recrystallized calcite, coralline 30.5ft: loss of circulation			
-36.6	35.5		2:15 2:08			711-CS-01							
		5.0	1:16 2:31 3:00	(4.1) 82%	(3.8) 76%	RUN-2							
			1:32 1:38			711-CS-02							
-41.6	40.5												
		5.0	1:19 1:57 2:45	(4.6) 92%	(4.0) 80%	RUN-3							
			2:47 2:43										
-46.6	45.5												
		5.0	2:34 1:41 1:01	(4.4) 88%	(3.3) 66%	RUN-4				45.5ft: white (5Y8/1), to 46.7ft then gray (5Y6/1), to 48.4ft, trace vugs			
			1:45 3:58				(52.3) 81%	(37.1) 57%	-49.5	48.4			
-51.6	50.5									LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, few vugs, few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)			
		5.0	2:41 2:02 1:47	(5.0) 100%	(4.1) 82%	RUN-5							
			1:18 2:02			711-CS-03							
-56.6	55.5												
		5.0	2:35 2:38 2:12	(5.0) 100%	(5.0) 100%	RUN-6							
			0:59 1:33			711-CS-04							
-61.6	60.5												
		5.0	2:51 2:12 2:17	(4.9) 98%	(4.2) 84%	RUN-7							
			2:02 1:00			711-CS-05 711-CS-06							
-66.6	65.5												
		5.0	0:56 0:49 0:43	(3.0) 60%	(1.4) 28%	RUN-8							
			0:52 4:15										
-71.6	70.5												
		5.0	3:29 4:55 4:43	(4.8) 96%	(4.1) 82%	RUN-9							
			2:20 4:25										
-76.6	75.5												
		5.0	1:21 1:33 1:42	(3.0) 60%	(0.9) 18%	RUN-10				75.5ft: hard to moderately hard, indurated to moderately indurated			
			1:28 1:49										
-81.6	80.5												
		5.0	1:06 0:56 1:42	(3.6) 72%	(1.0) 20%	RUN-11				80.5ft: white (5Y8/1), to light gray (10YR7/2), hard, indurated, trace shell molds and casts			
			2:35 1:42										
-86.6	85.5												
		5.0	2:13 3:21 4:00	(4.6) 92%	(3.9) 78%	RUN-12				85.5ft: white (5YR8/1), moderately hard, moderately indurated, trace vugs			
			3:36 1:28			711-CS-07							
-91.6	90.5												
		5.0	0:13 0:51 0:28	(3.5) 70%	(2.6) 52%	RUN-13				90.5ft: white (10YR8/1), medium hard to hard, moderately indurated, no vugs			
			0:28 1:08										
-96.6	95.5												
		5.0	0:33 0:36 0:40	(3.2) 64%	(0.8) 16%	RUN-14							
			0:43 1:03										
-101.6	100.5												
		5.0	0:54 0:44 1:20	(4.9) 98%	(4.4) 88%	RUN-15				100.5ft: hard, indurated, little shell molds and casts			
			1:03 1:46			711-CS-08 711-CS-09							
-106.6	105.5												

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 5:30:08

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DATE STARTED: 3/4/08	COMPLETED: 3/6/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)		

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				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Continued from previous page
-111.6	110.5	5.0	0:42 0:54 0:54 0:48 0:45	(4.4) 88%	(3.6) 72%	RUN-16				LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, few vugs, few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) <i>(continued)</i> 105.5ft: medium hard to hard
-116.6	115.5	5.0	0:38 0:47 0:55 0:59 0:23	(2.1) 42%	(0.0) 0%	RUN-17	(1.2) 16%	(NA)		110.5ft: soft to hard, indurated 113.0 Silty SAND (SM), white (10YR8/1), wet, indurated to friable, fine grained sand, little fines (Tamiami Formation)
-121.6	120.5	5.0	0:39 0:33 0:46 1:11 0:47	(0.0) 0%	(0.0) 0%	RUN-18				120.5

Coring Terminated at Elevation -121.6