

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 5/30/08

DCN# TUR512



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: S. Lehman			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-45C (RAL)				DRILLER: D. Rhodes/ K. Guy				GROUND WATER (ft)	
BORING NO.: B-734				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -0.6 ft (NAVD88)				NORTHING: 395,833 US ft (NAD83/90)				EASTING: 875,546		US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 130.0 ft				CASING DEPTH: 4" to 39.6', 3" to 113.5'						HAMMER (ID): 140 lb. Auto (MEC-12)			
DATE STARTED: 3/26/08		COMPLETED: 4/4/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC (ft) %		SAMP. NO.	STRATA REC (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS		
											Begin Coring @ 29.5 ft		
-30.1	29.5	2.1	0:56	(1.9)	(1.2)	RUN-1	(14.6)	(12.4)			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated (Upper Fort Thompson Formation) (continued)		
-32.2	31.6	5.0	0:18/0.1	(4.8)	(4.2)	RUN-2	75%	64%			29.5ft: few vugs, coralline		
			1:14										
			0:49										
			1:23										
			0:44										
-37.2	36.6	5.0	1:10	(1.7)	(1.2)	RUN-3					36.6ft: trace recrystallized calcite		
			0:32	34%	24%						37.5 to 39.5ft: possible interbedded sand layers; based on recovery and drilling rates		
			0:08										
			0:46										
			2:40										
-42.2	41.6	5.0	4:46	(4.9)	(4.9)	RUN-4							
			1:42	98%	98%								
			1:33										
			1:33										
			1:37										
			1:43										
-47.2	46.6	5.0	0:47	(2.0)	(1.3)	RUN-5					46.6ft: light gray (10YR7/1)		
			1:32	40%	26%								
			2:08										
			2:48				(24.6)	(15.7)			-49.6 ----- 49.0		
			3:10				40%	26%			LIMESTONE, boundstone, white (2.5YR8/1), hard, indurated, trace recrystallized calcite (Lower Fort Thompson Formation)		
-52.2	51.6	5.0	1:42	(4.7)	(3.9)	RUN-6					51.6ft: moderately hard to hard, moderately indurated to indurated, trace vugs		
			0:59	94%	78%								
			1:09										
			0:46										
			1:03										
-57.2	56.6	5.0	0:46	(3.5)	(2.7)	RUN-7					56.6ft: hard, indurated		
			1:06	70%	54%								
			1:20										
			0:46										
			0:45										
-62.2	61.6	5.0	1:17	(1.9)	(1.4)	RUN-8					61.6ft: little sand		
			0:26	38%	28%						Below 64.0ft: possible interbedded sand layers; based on recovery and drilling rates		
			0:48										
			0:09										
			0:05										
-67.2	66.6		N=21			734-11					66.6ft: Switch sampling method to SPT		
-68.7	68.1	3.5	0:27	(1.5)	(1.5)	RUN-9					66.6ft: soft		
			1:56	43%	43%						68.1ft: Switch sampling method to coring		
			0:21								68.1ft: hard, indurated		
-72.2	71.6	5.0	0:08/0.5	(1.1)	(0.0)	RUN-10							
			1:00	22%	0%								
			1:09										
			0:58										
			0:25										
			2:20										
-77.2	76.6	5.0	1:02	(1.0)	(0.0)	RUN-11							
			0:08	20%	0%								
			0:15										
			0:12										
			2:00										
-82.2	81.6	5.0	0:42	(2.2)	(1.3)	RUN-12					81.6ft: moderately hard, moderately indurated, trace shell molds and casts		
			0:53	44%	26%								
			0:58										
			0:54										
			0:46										
-87.2	86.6	5.0	1:02	(2.4)	(1.7)	RUN-13					86.6ft: few vugs, trace sand		
			0:39	48%	34%								
			0:25										
			0:40										
			0:26										
-92.2	91.6	5.0	0:19	(2.0)	(0.4)	RUN-14							
			0:28	40%	8%								
			0:26										
			0:38										
			1:02										
-97.2	96.6	5.0	0:39	(0.6)	(0.4)	RUN-15							
			0:42	12%	8%								
			0:36										
			0:34										
			0:27										
-102.2	101.6	5.0	0:21	(0.0)	(0.0)	RUN-16					101.6ft: no recovery, possible soft, friable limestone with interbedded sand layers		
			0:43	0%	0%								

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TOTAL DEPTH: 130.0 ft	CASING DEPTH: 4" to 39.6', 3" to 113.5'	HAMMER (ID): 140 lb. Auto (MEC-12)	
DATE STARTED: 3/26/08	COMPLETED: 4/4/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC (ft) %	RQD (ft) %	SAMP. NO.	REC (ft) %	RQD (ft) %	L O G	DESCRIPTION AND REMARKS
										Continued from previous page
-107.2	106.6		0:24 0:39 0:38 N=30			734-12				LIMESTONE, boundstone, white (2.5YR8/1), hard, indurated, trace recrystallized calcite (Lower Fort Thompson Formation) (continued)
-108.7	108.1	3.5	0:58 0:33 0:47	(2.4) 69%	(2.0) 57%	RUN-17				106.6ft: Switch sampling method to SPT 106.6ft: soft, friable to moderately indurated 108.1ft: Switch sampling method to coring 108.1ft: moderately hard, moderately indurated to indurated, little sand
-112.2	111.6	5.0	0:09/0.5 0:39 0:18 0:29 0:19	(0.6) 12%	(0.0) 0%	RUN18	(0.0) 0%	(NA)		111.6ft: hard, indurated, few shell molds Silty SAND (SM), light gray (2.5Y7/2), medium dense, wet, fine grained sand with lenses of very soft, moderately indurated limestone (Tamiami Formation)
-117.2	116.6									113.0 116.6 Coring Terminated at Elevation -117.2

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