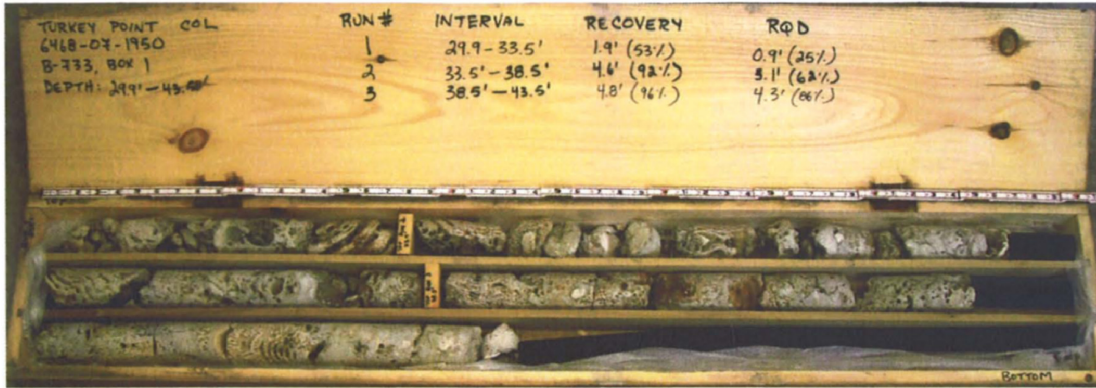




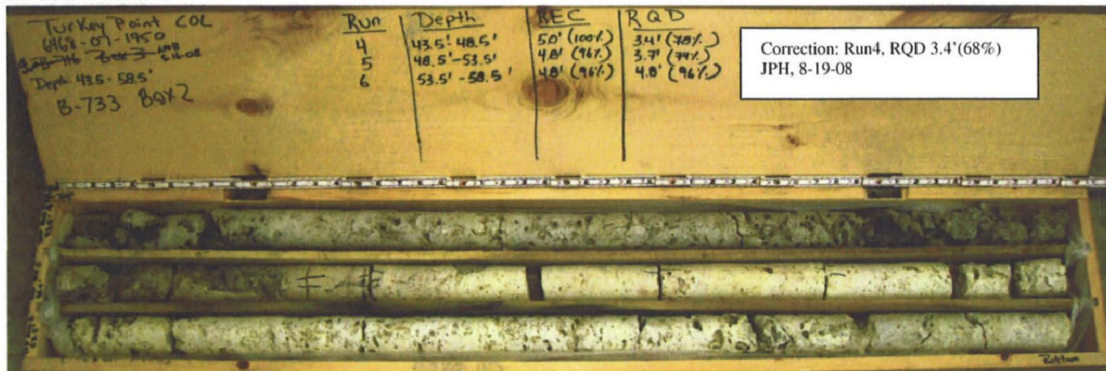
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: L. Bisson	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros		GROUND WATER (ft)	
BORING NO.: B-733		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,118 US ft (NAD83/90)		EASTING: 875,898 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 103.5 ft		CASING DEPTH: 4" to 28.0'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 5/15/08		COMPLETED: 5/17/08		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		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 29.9 ft
-30.9	29.9	3.6	0.08/0.6 0.43 0.38 0.47	(1.9) 53%	(0.9) 25%	RUN-1	(16.3) 88%	(11.7) 63%		LIMESTONE, boundstone, pale yellow (2.5Y8/2), hard, wet, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation) (continued) 29.9ft: white (10YR8/1), indurated, some vugs, recrystallized calcite
-34.5	33.5	5.0	0.39 0.39 1.27 1.09 1.24	(4.6) 92%	(3.1) 62%	RUN-2				32.0ft: loss of circulation 33.5ft: little vugs
-39.5	38.5	5.0	0.56 0.38 0.39 0.51 1.16	(4.8) 96%	(4.3) 86%	RUN-3				38.5ft: white (10YR8/1), to light gray (10YR7/1), few vugs
-44.5	43.5	5.0	1.17 0.47 0.32 0.30 0.19	(5.0) 100%	(3.4) 68%	RUN-4				43.5ft: white (10YR8/1), to light gray (10YR7/2), moderately hard, moderately indurated, trace sand
-49.5	48.5	5.0	0.48 1.03 0.40 0.32 0.27	(4.8) 96%	(3.7) 74%	RUN-5	(34.6) 63%	(18.2) 33%		LIMESTONE, boundstone, light gray (10YR7/2), to white (10YR8/1), hard, indurated, fossiliferous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)
-54.5	53.5	5.0	0.50 0.50 0.51 0.33 0.26	(4.8) 96%	(4.8) 96%	RUN-6				53.5ft: white (10YR8/1)
-59.5	58.5	5.0	0.31 0.20 0.49 0.42 0.41	(4.1) 82%	(2.2) 44%	RUN-7				58.5ft: mottled light greenish gray (10Y7/1), moderately hard, moderately indurated
-64.5	63.5	5.0	0.36 0.50 0.24 0.12 0.14	(2.4) 48%	(0.0) 0%	RUN-8				63.5ft: light gray (10YR7/1) 66.0 to 93.5ft: possible interbedded sand; based on drilling rates and recovery
-69.5	68.5	5.0	0.10 0.38 0.33 0.42 0.39	(4.0) 80%	(1.6) 32%	RUN-9				68.5ft: white (10YR8/1)
-74.5	73.5	5.0	0.22 0.08 0.08 0.16 0.25	(1.5) 30%	(0.0) 0%	RUN-10				
-79.5	78.5	5.0	0.39 0.25 0.12 0.34 0.20	(3.3) 66%	(0.8) 16%	RUN-11				78.5ft: hard
-84.5	83.5	5.0	0.11 0.31 0.25 0.44 0.55	(0.7) 14%	(0.0) 0%	RUN-12				83.5ft: moderately hard
-89.5	88.5	5.0	0.38 0.29 0.16 0.15 0.12	(1.5) 30%	(0.4) 8%	RUN-13				88.5ft: hard, indurated
-94.5	93.5	5.0	0.30 0.26 0.24 0.30 0.28	(2.9) 58%	(0.9) 18%	RUN-14				93.5ft: moderately hard, moderately indurated
-99.5	98.5	5.0	0.24 0.22 0.22 0.25 0.21	(4.6) 92%	(3.8) 76%	RUN-15				
-104.5	103.5								-104.5	103.5 Coring Terminated at Elevation -104.5

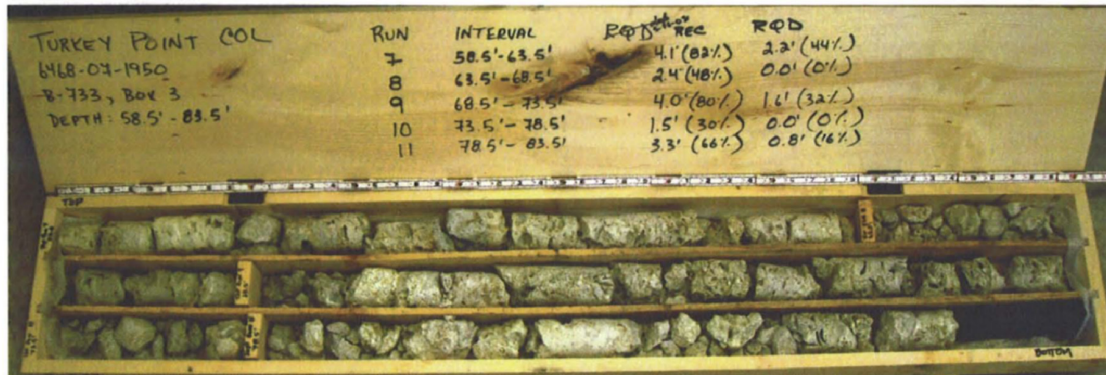
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



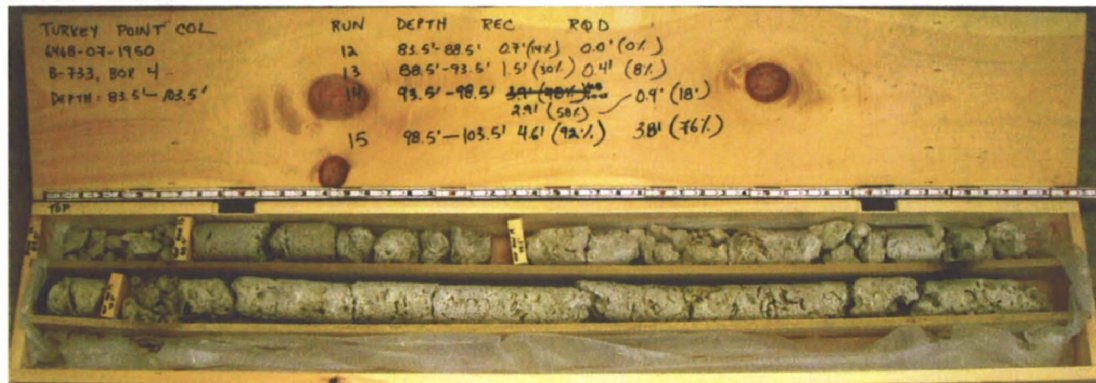
B-733-Box 1



B-733 - Box 2



B-733 - Box 3



B-733 - Box 4



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		BORING DIAMETER: 4" to 39.6', 3" to 130.0'		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		BITS USED: 2 7/8" Roller Cone	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-75.4													Continued from previous page
-77.2	76.6										RUN-11		LIMESTONE, boundstone, white (2.5YR8/1). hard, indurated, trace recrystallized calcite (Lower Fort Thompson Formation) (continued)
-82.2	81.6										RUN-12		81.6ft: moderately hard, moderately indurated, trace shell molds and casts
-87.2	86.6										RUN-13		86.6ft: few vugs, trace sand
-92.2	91.6										RUN-14		
-97.2	96.6										RUN-15		
-102.2	101.6										RUN-16		101.6ft: no recovery, possible soft, friable limestone with interbedded sand layers
-107.2	106.6										734-12		106.6ft: Switch sampling method to SPT
-108.7	108.1	5	14	16							RUN-17		106.6ft: soft, friable to moderately indurated
-112.2	111.6										RUN-18		108.1ft: Switch sampling method to coring
-117.2	116.6										734-13A&B		108.1ft: moderately hard, moderately indurated to indurated, little sand
-124.1	123.5	9	9	8									111.6ft: hard, indurated, few shell molds
-129.1	128.5	11	5	5							734-14		Silty SAND (SM), light gray (2.5Y7/2), medium dense, wet, fine grained sand with lenses of very soft, moderately indurated limestone (Tamiami Formation)
		7	8	11							734-15		123.5ft: greenish gray (10Y6/1), loose
													128.5ft: light greenish gray (10Y7/1), medium dense, cemented sand and shell fragments
													Boring Terminated at Elevation -130.6 ft

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/20/08



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		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC (%)	RQD (%)		REC (%)	RQD (%)		
										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)	29.5ft: few vugs, coralline
-32.2	31.6	5.0	0.48	90%	57%		75%	64%		
			0.18/0.1	(4.8)	(4.2)	RUN-2				
			1.14	96%	84%					
			0.49							
			1.23							
			0.44							
			1.10							
-37.2	36.6	5.0	0.32	(1.7)	(1.2)	RUN-3				36.6ft: trace recrystallized calcite
			0.08	34%	24%					37.5 to 39.5ft: possible interbedded sand layers; based on recovery and drilling rates
			0.46							
			2.40							
			4.46							
-42.2	41.6	5.0	1.42	(4.9)	(4.9)	RUN-4				
			1.33	98%	98%					
			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							
			3.10							
-52.2	51.6	5.0	1.42	(4.7)	(3.9)	RUN-6	(24.6)	(15.7)		LIMESTONE, boundstone, white (2.5YR8/1), hard, indurated, trace recrystallized calcite (Lower Fort Thompson Formation)
			0.59	94%	78%		40%	26%		51.6ft: moderately hard to hard, moderately indurated to indurated, trace vugs
			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%					

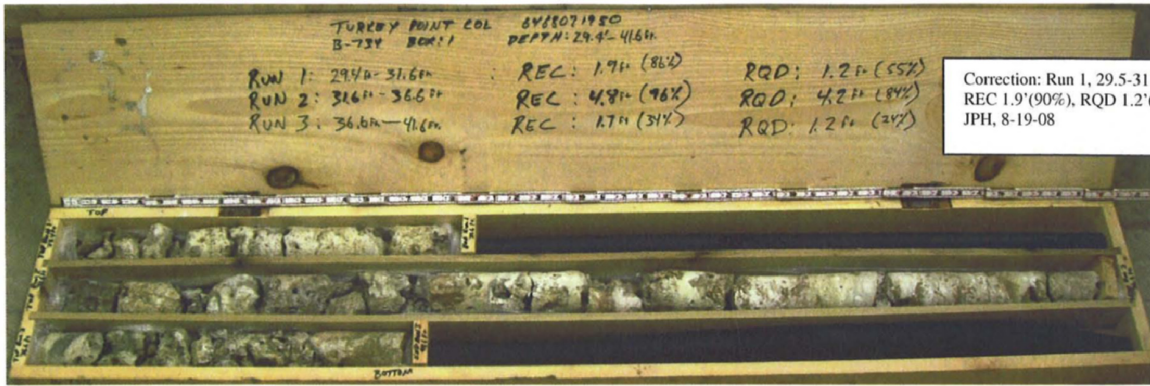
TURKEY POINT COL CORE TURKEY POINT GP TURKEY POINT COL GDT 5:30:08



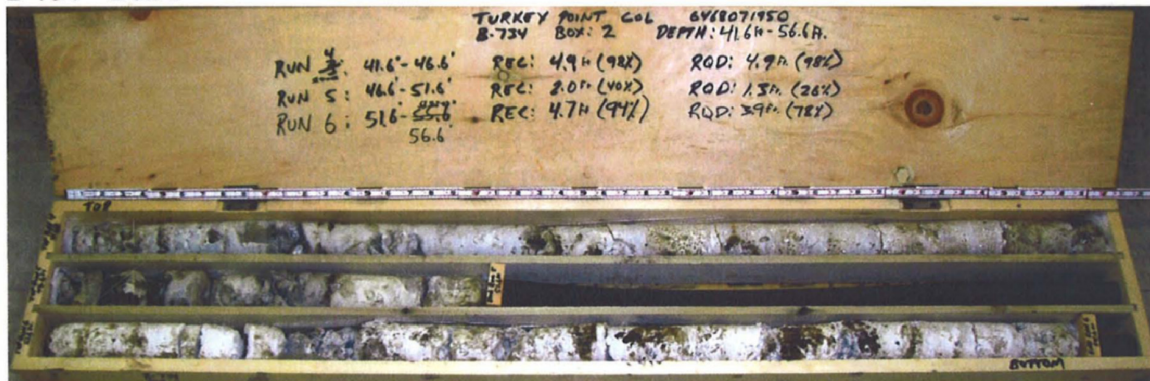
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Lehman	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-45C (RAL)		DRILLER: D. Rhodes/ K. Guy			GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-734		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core			
GROUND ELEV.: -0.6 ft (NAVD88)		NORTHING: 395,833 US ft (NAD83/90)		EASTING: 875,546 US ft (NAD83/90)			
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		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
			0:24 0:39 0:38							Continued from previous page
-107.2	106.6		N=30			734-12				LIMESTONE, boundstone, white (2.5YR8/1), hard, indurated, trace recrystallized calcite (Lower Fort Thompson Formation) (continued) 106.6ft: Switch sampling method to SPT 106.6ft: soft, friable to moderately indurated
-108.7	108.1	3.5	0:58 0:33	(2.4) 69%	(2.0) 57%	RUN-17				108.1ft: Switch sampling method to coring 108.1ft: moderately hard, moderately indurated to indurated, little sand
-112.2	111.6		0:47							
		5.0	0:09/0.5 0:39	(0.6) 12%	(0.0) 0%	RUN18	(0.0) 0%	(NA)		-113.6 111.6ft: hard, indurated, few shell molds 113.0 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		0:17 0:18 0:29 0:19							-117.2 Coring Terminated at Elevation -117.2

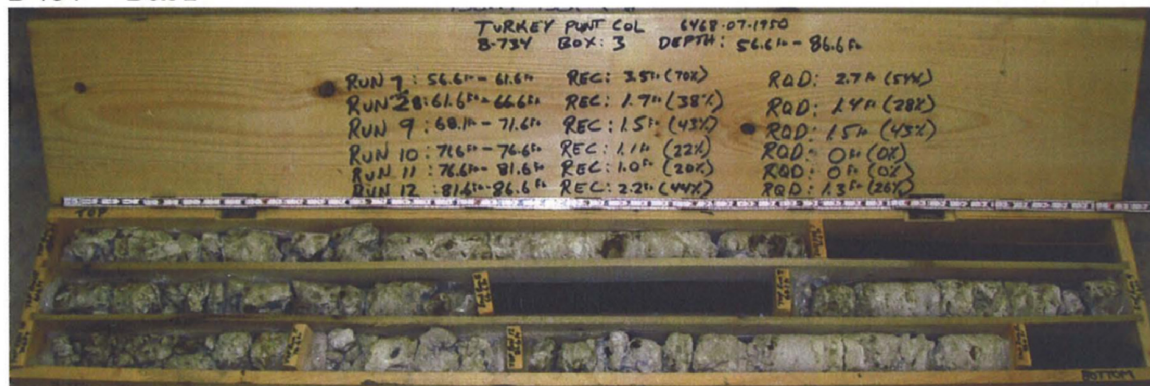
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5:30'08



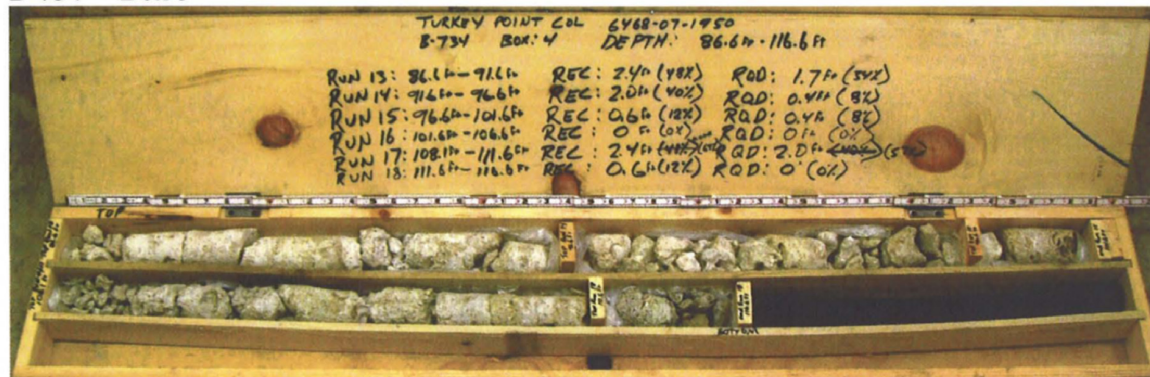
B-734 - Box 1



B-734 - Box 2



B-734 - Box 3



B-734 - Box 4



GEOTECHNICAL BORING LOG

Prepared By DPW Date 5-30-08

Checked By JMM Date 5-30-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: O. Rodriguez									
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-45C (RAL)		DRILLER: D. Rhodes/ K. Guy		GROUND WATER (ft)									
BORING NO.: B-735		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA									
GROUND ELEV.: -0.8 ft (NAVD88)		NORTHING: 395,825 US ft (NAD83/90)		EASTING: 875,689 US ft (NAD83/90)		24 HR. NA									
TOTAL DEPTH: 128.0 ft		BORING DIAMETER: 4" to 29.1', 3" to 128.0'		CASING DEPTH: 4" to 29.1', 3" to 118.6'		HAMMER (ID): 140 lb. Auto (MEC-12)									
DATE STARTED: 3/20/08		COMPLETED: 3/25/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Roller Cone									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100	
-0.8					Ground Surface								-0.8	0.0	
-0.8	0.0	WOH	WOH	WOH							735-1			0.0ft: MUCK - no recovery	
-3.2	2.4	WOH	WOH	2							735-2			Field notes do not indicate that sample 735-2 was split into separate jars	3.7
-5.7	4.9	24	37	25							735-3			2.4ft: MUCK, black (7.5YR2.5/1), very soft, wet, organics	
-8.3	7.5	4	5	5							735-4			LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet (Miami Formation)	
-10.8	10.0	3	6	8							735-5			4.9ft: hard, strong HCl reaction, trace fine grained sand, oolitic	
-13.1	12.3	18	11	11							735-6			7.5ft: very soft, friable	
-15.6	14.8	18	12	11							735-7			12.3ft: soft, moderately indurated	
-18.7	17.9	5	2	1							735-8			17.9ft: very soft	
-23.3	22.5	4	8	3							735-9				
-28.1	27.3	7	35	25							735-10			LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, wet, strong HCl reaction, trace to few fine grained sand (Upper Fort Thompson Formation)	26.0
-29.8	29.0										735-11			29.0ft: hard	
-31.0	30.2	3	3	50/0.2							RUN-1			30.2ft: Switch sampling method to coring	
-32.5	31.7										RUN-2			30.2ft: moderately hard, moderately indurated, few to little vugs, fossiliferous	
											RUN-3			31.7ft: hard, indurated, coralline, recrystallized calcite	
-37.5	36.7										RUN-4			36.7ft: white (2.5Y8/1), to pale yellow (2.5Y8/4), hard to moderately hard, indurated, few vugs	
-42.5	41.7										RUN-5			41.7ft: hard	
-47.5	46.7										RUN-6			46.7ft: gray (10YR6/1)	48.5
-52.5	51.7										RUN-7			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, fossiliferous (Lower Fort Thompson Formation)	
-57.5	56.7										RUN-8			51.7ft: little vugs, trace to few shell molds and casts, trace sand	
-62.5	61.7										RUN-9				
-67.5	66.7										RUN-10			66.7 to 71.7ft: indurated to moderately indurated, few vugs, possible interbedded sand layers; based on recovery and drilling rates	
-72.5	71.7										RUN-11				
-74.5	73.7														

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



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: O. Rodriguez	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-45C (RAL)		DRILLER: D. Rhodes/ K. Guy		GROUND WATER (ft)	
BORING NO.: B-735		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -0.8 ft (NAVD88)		NORTHING: 395,825 US ft (NAD83/90)		EASTING: 875,689 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 128.0 ft		CASING DEPTH: 4" to 29.1', 3" to 118.6'				HAMMER (ID): 140 lb. Auto (MEC-12)	
DATE STARTED: 3/20/08		COMPLETED: 3/25/08		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		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Begin Coring @ 30.2 ft
-31.0	30.2	1.5	2:12	(1.5)	(1.1)	RUN-1	(18.3)	(15.0)		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, wet, strong HCl reaction, trace to few fine grained sand (Upper Fort Thompson Formation)
-32.5	31.7	5.0	0:33/0.5	100%	73%	RUN-2	100%	82%		(continued) 30.2ft: moderately hard, moderately indurated, few to little vugs, fossiliferous 31.7ft: hard, indurated, coralline, recrystallized calcite
-37.5	36.7	5.0	2:19 2:16 2:22 2:06 1:46	(5.0) 100%	(4.7) 94%	RUN-3				36.7ft: white (2.5Y8/1), to pale yellow (2.5Y8/4), hard to moderately hard, indurated, few vugs
-42.5	41.7	5.0	1:04 1:10 2:11 2:13 1:54	(5.0) 100%	(4.6) 92%	RUN-4				41.7ft: hard
-47.5	46.7	5.0	2:04 1:58 1:54 1:41 1:34	(5.0) 100%	(3.3) 66%	RUN-5				46.7ft: gray (10YR6/1)
-52.5	51.7	5.0	2:08 1:58 1:55 2:06 1:58	(5.0) 100%	(4.3) 86%	RUN-6	(23.7) 37%	(10.9) 17%		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, fossiliferous (Lower Fort Thompson Formation)
-57.5	56.7	5.0	1:10 1:22 1:13 1:44 0:58	(3.7) 74%	(2.6) 52%	RUN-7				51.7ft: little vugs, trace to few shell molds and casts, trace sand
-62.5	61.7	5.0	1:02 0:47 0:40 0:59 0:52	(3.4) 68%	(2.0) 40%	RUN-8				
-67.5	66.7	5.0	0:54 0:48 1:16 1:33 1:42	(3.4) 68%	(1.9) 38%	RUN-9				66.7 to 71.7ft: indurated to moderately indurated, few vugs, possible interbedded sand layers; based on recovery and drilling rates
-72.5	71.7	5.0	0:14 0:31 0:38 1:05 1:36	(1.4) 28%	(0.5) 10%	RUN-10				
-74.5	73.7	2.0	1:37 4:07	(1.7) 85%	(0.9) 45%	RUN-11				73.7: little vugs, few to little sand
-76.2	75.4	1.7	1:38 5:36/0.7	(1.4) 82%	(0.0) 0%	RUN-12				75.4ft: moderately hard
-77.3	76.5	1.1	1:04 10:00/0.1	(0.2) 18%	(0.0) 0%	RUN-13				76.5 to 113.0ft: possible interbedded sand layers; based on recovery and drilling rates
-82.3	81.5	5.0	1:22 2:57 2:11 1:12 2:12	(0.6) 12%	(0.0) 0%	RUN-14				
-87.3	86.5	5.0	0:54 0:26 0:07 0:13 1:19	(0.3) 6%	(0.0) 0%	RUN-15				
-92.3	91.5	5.0	1:42 0:33 0:29 0:46 2:07	(0.2) 4%	(0.0) 0%	RUN-16				
-97.3	96.5	5.0	0:57 0:42 0:18 0:35 0:39	(0.0) 0%	(0.0) 0%	RUN-17				
-102.3	101.5	5.0	0:20 0:51 0:43 0:52 0:50	(0.6) 12%	(0.0) 0%	RUN-18				101.5ft: few shell molds and casts
		5.0	0:49 0:53 1:04	(1.4) 28%	(0.0) 0%	RUN-18				

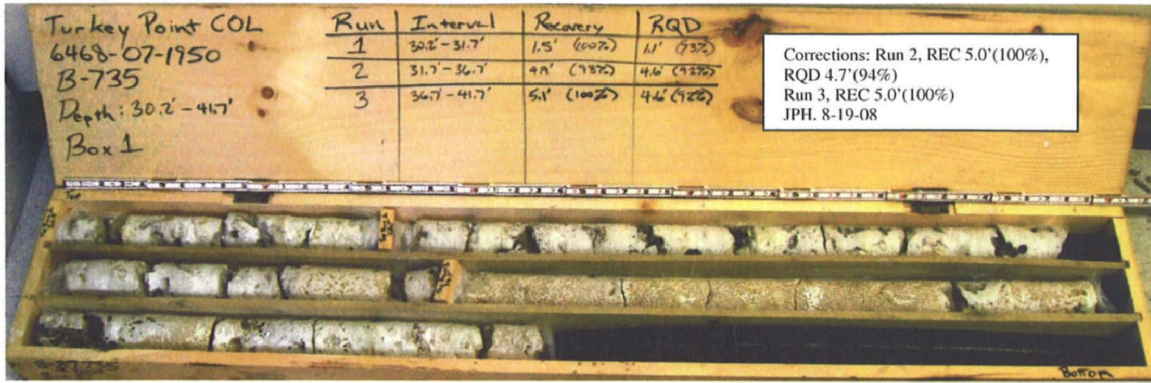
TURKEY POINT COL CORE, TURKEY POINT.GPJ, TURKEY POINT COL.GDT, 5/30/08



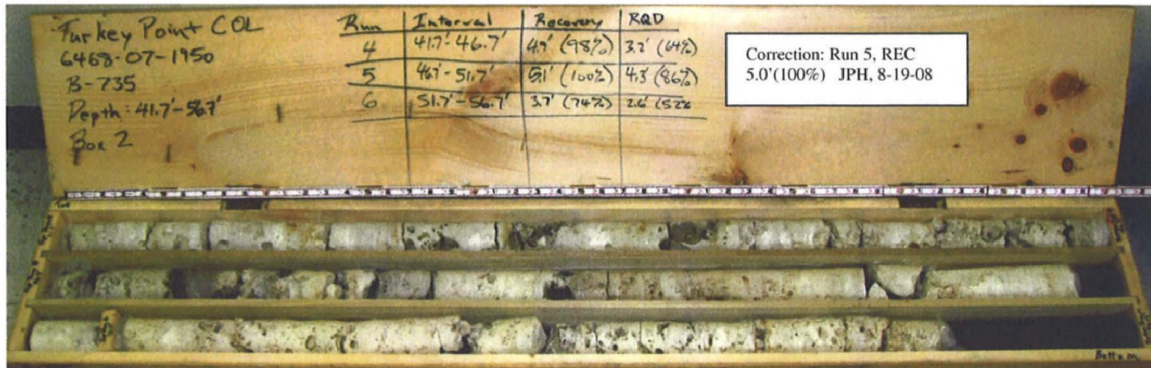
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: O. Rodriguez
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-45C (RAL)	DRILLER: D. Rhodes/ K. Guy	GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-735	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -0.8 ft (NAVD88)	NORTHING: 395,825 US ft (NAD83/90)	EASTING: 875,689 US ft (NAD83/90)	
TOTAL DEPTH: 128.0 ft	CASING DEPTH: 4" to 29.1', 3" to 118.6'		HAMMER (ID): 140 lb. Auto (MEC-12)
DATE STARTED: 3/20/08	COMPLETED: 3/25/08	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		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Continued from previous page
-107.3	106.5	5.0	1:15 0:40	(1.3)	(0.0)	RUN-19				LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, fossiliferous (Lower Fort Thompson Formation) (continued) 106.5ft: trace shell molds and casts
-112.3	111.5	5.0	0:11 0:57 0:36 1:09 1:05	(2.1)	(0.0)	RUN-20				111.5ft: little vugs
-117.3	116.5		0:30 0:34 0:33 0:34 0:35	(1.2)	(NA)		34%			POORLY GRADED SAND with silt (SP-SM), white (2.5Y8/1), medium dense, wet, strong HCl reaction, fine to coarse grained sand, cemented sand fragments, trace shell fragments (Tamiami Formation) Coring Terminated at Elevation -117.3

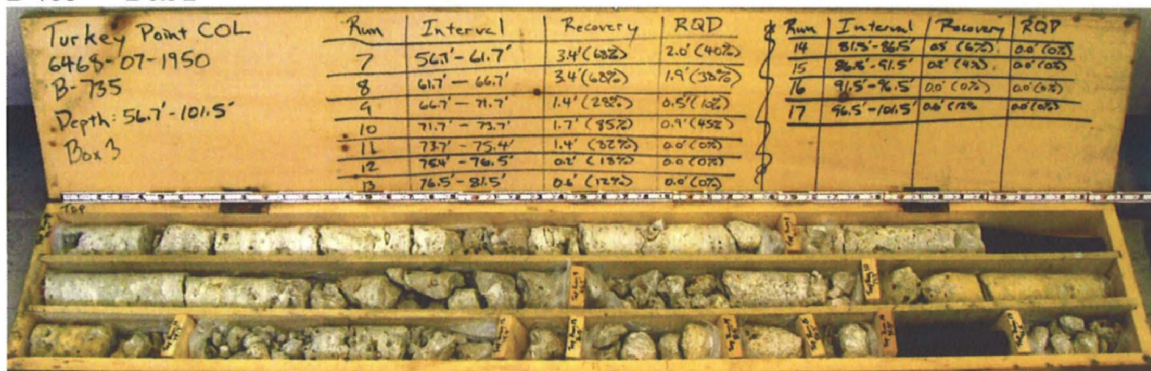
TURKEY POINT COL CORE: TURKEY POINT.GPJ TURKEY POINT COL.GDT 5.30/08



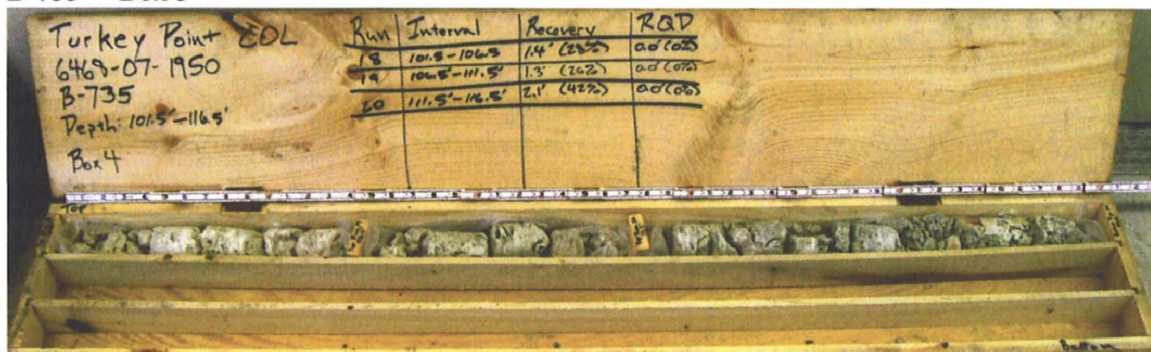
B-735 - Box 1



B-735 - Box 2



B-735 - Box 3



B-735 - Box 4



GEOTECHNICAL BORING LOG

Prepared By *JPT* Date *6-18-08*

Checked By *SR* Date *8/19/08*

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/ N. Vasquez			GROUND WATER (ft)									
BORING NO.: B-736			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA									
GROUND ELEV.: -0.5 ft (NAVD88)			NORTHING: 395,809 US ft (NAD83/90)			EASTING: 876,107 US ft (NAD83/90)			24 HR. NA									
TOTAL DEPTH: 125.0 ft			BORING DIAMETER: 4" to 24.8', 3" to 125.0'			CASING DEPTH: 4" to 24.8', 3" to 113.3'			HAMMER (ID):140 lb. Auto (MEC-12)									
DATE STARTED: 4/5/08			COMPLETED: 4/8/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Roller Cone									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION					
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100				
-0.5					Ground Surface													
-0.5	0.0	WOH	WOH	WOH									-0.5	0.0				
-4.0	3.5												-2.5	2.0	FAT CLAY with sand (CH), dark grayish brown (10YR4/2), very soft, moist, fine grained sand, strong HCl reaction			
-7.0	6.5	WOH	4	5									-4.5	4.0	MUCK, black (10YR2/1), very soft, wet, few sand, organics, weak HCl reaction			
-9.0	8.5		3	24											LIMESTONE, boundstone, white (2.5Y8/1), very soft, moderately indurated, oolitic (Miami Formation)			
-11.6	11.1		3	5											6.5ft: light gray (10YR7/1), medium hard, moderately indurated			
-14.0	13.5		2	6											8.5ft: white (2.5Y8/1), very soft			
-18.9	18.4		8	11											11.1ft: trace shell fragments			
-23.9	23.4		4	3											13.5ft: soft			
-28.9	28.4		6	9											18.4ft: very soft			
-33.9	33.4		16	19											19.4 to 21.6ft: poorly graded sand, white (2.5Y8/1), loose, wet			
-34.1	33.6		50/0.2												23.4ft: indurated			
-37.6	37.1														27.5	27.0	LIMESTONE, boundstone, white (2.5Y8/1), medium hard, indurated (Upper Fort Thompson Formation)	
-42.6	42.1															33.6ft: Switch sampling method to coring		
-47.6	47.1															33.4ft: hard		
-52.6	52.1															33.6ft: little vugs		
-57.6	57.1															42.1ft: few vugs, recrystallized calcite		
-62.6	62.1															47.6	47.1	LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, few vugs, recrystallized calcite, trace to few shell molds and casts (Lower Fort Thompson Formation)
-67.6	67.1															52.1ft: medium hard to hard		
-72.6	72.1															57.1ft: moderately hard, trace vugs		
																62.1ft: few to little shell molds and casts		
																67.1ft: moderately hard to hard, moderately indurated to indurated, trace shell molds and casts		
																72.1ft: moderately hard, moderately indurated, trace vugs, fossiliferous		

TURKEY POINT BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/19/08



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/ N. Vasquez		GROUND WATER (ft)							
BORING NO.: B-736		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -0.5 ft (NAVD88)		NORTHING: 395,809 US ft (NAD83/90)		EASTING: 876,107 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 125.0 ft		BORING DIAMETER: 4" to 24.8', 3" to 125.0'		CASING DEPTH: 4" to 24.8', 3" to 113.3'		HAMMER (ID): 140 lb. Auto (MEC-12)							
DATE STARTED: 4/5/08		COMPLETED: 4/8/08		CORE SIZE: HQ3		BITS USED: 2 7/8" Roller Cone							
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-75.3					Continued from previous page								
-77.6	77.1												LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, few vugs, recrystallized calcite, trace to few shell molds and casts (Lower Fort Thompson Formation) (continued)
-82.6	82.1												77.1ft: moderately hard to hard, moderately indurated to indurated, trace coarse grained sand
-87.6	87.1												87.1ft: hard, indurated
-92.6	92.1												92.1ft: moderately indurated to indurated, little medium to coarse sand, possible interbedded sand layers; based on recovery and drilling rates
-97.6	97.1												97.1ft: medium hard to hard, few shell molds and casts
-102.6	102.1												102.1ft: hard, indurated, little shell molds and casts
-107.6	107.1												107.1ft: possible interbedded sand layers; based on recovery and drilling rates
-112.6	112.1												112.1ft: soft to moderately hard, friable to moderately indurated, little sand
-117.6	117.1	14	8	5									POORLY GRADED SAND (SP-SM), light gray (5Y7/2), medium dense, wet, fine grained sand, weak HCl reaction, fragments of cemented sand (Tamiami Formation)
-124.0	123.5	5	8	7									117.1ft: Switch sampling method to SPT
													Boring Terminated at Elevation -125.5 ft.

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/19/08



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/ N. Vasquez	
BORING NO.: B-736		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -0.5 ft (NAVD88)		NORTHING: 395,809 US ft (NAD83/90)		EASTING: 876,107 US ft (NAD83/90)	
TOTAL DEPTH: 125.0 ft		CASING DEPTH: 4" to 24.8', 3" to 113.3'			HAMMER (ID): 140 lb. Auto (MEC-12)
DATE STARTED: 4/5/08		COMPLETED: 4/8/08	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		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Begin Coring @ 33.6 ft
-34.1	33.6	3.5	0:52 0:46	(0.6) 17%	(0.0) 0%	RUN-1	(6.8) 50%	(3.1) 23%		LIMESTONE, boundstone, white (2.5Y8/1), medium hard, indurated (Upper Fort Thompson Formation) <i>(continued)</i> 33.6ft: little vugs
-37.6	37.1	5.0	0:25 0:34/0.5	(2.0) 40%	(0.0) 0%	RUN-2				
-42.6	42.1	5.0	1:40 1:22 0:56 0:59 0:37	(4.2) 84%	(3.1) 62%	RUN-3				42.1ft: few vugs, recrystallized calcite
-47.6	47.1	5.0	1:20 1:41 2:01 2:06 2:32	(5.0) 100%	(4.7) 94%	RUN-4	(42.9) 64%	(34.9) 52%	-47.6	LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, few vugs, recrystallized calcite, trace to few shell molds and casts (Lower Fort Thompson Formation)
-52.6	52.1	5.0	1:20 1:32 1:12 1:02 1:09	(5.0) 100%	(5.0) 100%	RUN-5				52.1ft: medium hard to hard
-57.6	57.1	5.0	0:59 0:50 1:39 1:27 1:37	(4.4) 88%	(4.1) 82%	RUN-6				57.1ft: moderately hard, trace vugs
-62.6	62.1	5.0	0:48 0:56 0:34 1:09 1:32	(1.9) 38%	(0.9) 18%	RUN-7				62.1ft: few to little shell molds and casts
-67.6	67.1	5.0	0:58 0:49 0:50 0:51 0:23	(3.3) 66%	(3.0) 60%	RUN-8				67.1ft: moderately hard to hard, moderately indurated to indurated, trace shell molds and casts
-72.6	72.1	5.0	0:38 0:42 2:06 1:35 1:54	(4.0) 80%	(3.8) 76%	RUN-9				72.1ft: moderately hard, moderately indurated, trace vugs, fossiliferous
-77.6	77.1	5.0	1:01 0:55 0:54 1:27 0:52	(3.5) 70%	(3.5) 70%	RUN-10				77.1ft: moderately hard to hard, moderately indurated to indurated, trace coarse grained sand
-82.6	82.1	5.0	0:54 1:06 1:42 0:52 1:16	(2.9) 58%	(1.8) 36%	RUN-11				
-87.6	87.1	5.0	0:46 1:06 0:45 0:54 2:01	(1.6) 32%	(1.1) 22%	RUN-12				87.1ft: hard, indurated
-92.6	92.1	5.0	1:38 1:40 1:39 2:04 3:34	(1.8) 36%	(1.0) 20%	RUN-13				92.1ft: moderately indurated to indurated, little medium to coarse sand, possible interbedded sand layers: based on recovery and drilling rates
-97.6	97.1	5.0	0:26 0:42 0:34 0:12 0:34	(3.4) 68%	(2.1) 42%	RUN-14				97.1ft: medium hard to hard, few shell molds and casts
-102.6	102.1	5.0	0:54 1:26 1:14 1:30 1:54	(3.9) 78%	(3.9) 78%	RUN-15				102.1ft: hard, indurated, little shell molds and casts
-107.6	107.1	5.0	0:55 0:47 0:38 1:02 1:12	(1.3) (0.0)	(0.0)	RUN-16				107.1ft: possible interbedded sand layers: based on recovery and drilling rates

TURKEY POINT COL CORE TURKEY POINT GP TURKEY POINT COL GDT 8/19/08