



SHEET 1 OF 2

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-706	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.2 ft (NAVD88)	NORTHING: 396,963 US ft (NAD83/90)	EASTING: 875,885 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 151.9 ft	CASING DEPTH: 3" to 117.3'	HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 2/9/08	COMPLETED: 2/13/08	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 @ 16.0 ft
-17.2	16.0	5.0	2.20 3.18 0.58 0.53 0.52	(2.8) 56%	(0.9) 18%	RUN-1	(3.7) 44%	(0.9) 11%		LIMESTONE, boundstone, pale yellow (5Y8/2), very soft, moist to wet, strong HCl reaction (Miami Formation) <i>(continued)</i> 16.0ft: pale yellow (5Y8/2), hard, indurated, fossiliferous, little vugs, and white (N8/) cemented sands, blocky, strong HCl reaction
-22.2	21.0									
		5.0	1.01 1.42 1.23 1.01 0.23	(0.9) 18%	(0.0) 0%	RUN-2				24.5 to 25.0ft: soft zone
-27.2	26.0						(0.4) 21%	(NA)		-25.7 24.5ft: Switch sampling method to SPT Silty SAND (SP-SM), pale yellow (5Y8/2), loose, wet, trace shell fragments, angular, gravel-size limestone fragments
			N=7			706-8				24.5ft: total loss of circulation 30.8ft: Switch sampling method to coring
-32.0	30.8	5.0	0.56 0.56 1.24 2.12 1.12	(2.5) 50%	(0.9) 18%	RUN-3	(13.9) 86%	(10.4) 65%		-32.4 LIMESTONE, boundstone, pale yellow (5Y8/2), moderately hard, indurated, fossiliferous, little vugs, trace sand in vugs, strong HCl reaction, coralline (Upper Fort Thompson Formation)
-37.0	35.8									
		5.0	2.06 1.45 1.00 3.25 4.23	(4.6) 92%	(3.9) 78%	RUN-4				
-42.0	40.8									
		5.0	2.44 2.37 1.09 2.19 4.30	(5.0) 100%	(4.1) 82%	RUN-5				
-47.0	45.8									
		5.0	2.49 1.41 2.45 6.16 6.22	(4.3) 86%	(3.5) 70%	RUN-6				45.8 white (5Y8/1) to 48.0ft, few vugs
-52.0	50.8						(51.1) 77%	(43.3) 66%		-49.2 LIMESTONE, boundstone, pale yellow (5Y8/2), moderately hard, indurated, little vugs, porous, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
		5.0	3.18 2.22 3.45 0.50 0.45	(3.6) 72%	(3.3) 66%	RUN-7				50.8ft: white (5Y8/1), few vugs
-57.0	55.8									
		5.0	1.05 5.40 1.32 1.30 1.20	(4.8) 96%	(4.1) 82%	RUN-8				
-62.0	60.8									
		5.0	1.11 1.12 0.38 1.09 1.47	(4.6) 92%	(4.6) 92%	RUN-9				
-67.0	65.8									
		5.0	1.20 0.54 1.09 0.53 1.16	(4.1) 82%	(3.5) 70%	RUN-10				69.7ft: 0.5ft-thick layer of sand
-72.0	70.8									
		5.0	2.10 2.00 2.04 2.00 2.24	(5.0) 100%	(4.8) 96%	RUN-11				70.8ft: 0.2ft-thick layer of sand
-77.0	75.8									
		5.0	1.44 2.13 1.25 1.47 2.17	(5.0) 100%	(5.0) 100%	RUN-12				
-82.0	80.8									
		5.0	0.45 0.57 0.58 1.02 0.28	(3.7) 74%	(3.0) 60%	RUN-13				80.8ft: little vugs 83.0ft to 84.0ft: soft zone
-87.0	85.8									
		5.0	1.51 0.45 1.00 1.04 0.50	(2.8) 56%	(1.8) 36%	RUN-14				85.8ft: few vugs 87.0ft to 90.0ft: soft zone
-92.0	90.8									

TURKEY POINT COL CORE TURKEY POINT GP TURKEY POINT COL GDT 8/18/08



SHEET 2 OF 2

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-706	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.2 ft (NAVD88)	NORTHING: 396,963 US ft (NAD83/90)	EASTING: 875,885 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 151.9 ft	CASING DEPTH: 3" to 117.3'	HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 2/9/08	COMPLETED: 2/13/08	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) %		
										Continued from previous page
-97.0	95.8	5.0	0:25 0:15 0:58 0:59 0:41	(3.5) 70%	(2.2) 44%	RUN-15				91.0ft to 94.0ft: soft zone LIMESTONE, boundstone, pale yellow (5Y8/2), moderately hard, indurated, little vugs, porous, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-102.0	100.8	5.0	1:20 0:45 0:39 0:45 0:51	(1.9) 38%	(0.7) 14%	RUN-16				
-107.0	105.8	5.0	0:45 0:48 0:38 0:46 0:45	(5.0) 100%	(4.8) 96%	RUN-17				100.8ft: some vugs 104.0ft to 105.8ft: soft zone
-112.0	110.8	5.0	0:46 0:52 0:38 0:42 0:41	(4.1) 82%	(3.3) 66%	RUN-18				105.8ft: few vugs
-117.0	115.8	5.0	1:43 0:37 0:35 0:29 0:19	(0.7) 14%	(0.0) 0%	RUN-19				
				(0.0) 0%	(NA)					115.8ft: Switch sampling method to SPT POORLY GRADED SAND with silt (SP-SM), white (5Y8/1), dense, wet, fine to coarse grained sand, fine angular sandstone and limestone gravel fragments/lenses, weak HCl reaction (Tamiami Formation) Coring Terminated at Elevation -117.0

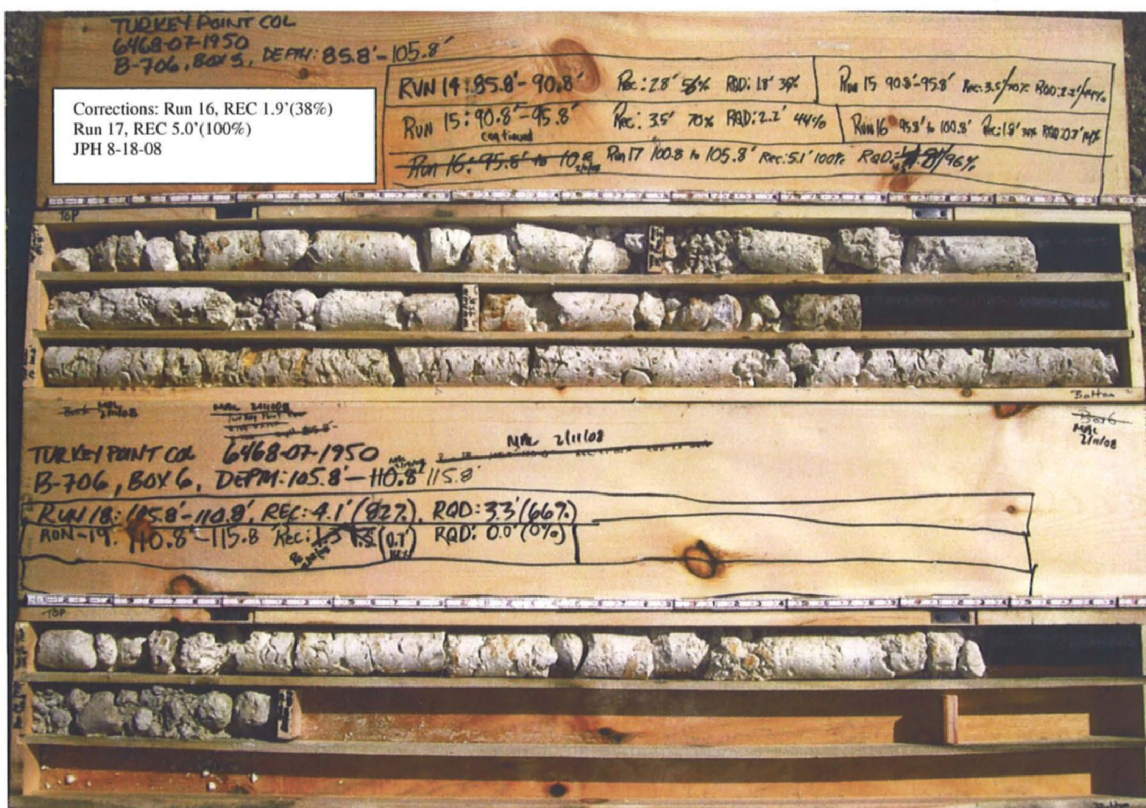
TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/18/08



B-706 - Box 1
B-706 - Box 2



B-706 - Box 3
B-706 - Box 4



B-706 - Box 5

B-706 - Box 6



GEOTECHNICAL BORING LOG

Prepared By DPH Date 5-30-08

Checked By [Signature] Date 5-30-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade			GEOLOGIST: H. Lyatuu				
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-550 (Miller)					DRILLER: R. White/ J. Dugger					GROUND WATER (ft)		
BORING NO.: B-707					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.8 ft (NAVD88)					NORTHING: 396,829 US ft (NAD83/90)					EASTING: 875,791 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 152.0 ft			BORING DIAMETER: 4" to 24.9', 3" to 152.0'					CASING DEPTH: 4" to 24.9', 3" to 110.0'					HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 2/13/08			COMPLETED: 2/21/08			CORE SIZE: HQ3			BITS USED: 2 15/16" & 3 7/8 Roller Cones								
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							
-1.8					Ground Surface												
-1.8	0.0	WOH	WOH	WOH	0						707-1		-1.8	0.0	MUCK, light brownish gray (10YR6/3), to very dark gray (10YR3/1), very soft, wet, mostly organic, strong HCl reaction		
-4.3	2.5	WOH	2	2	4						707-2		-3.8	2.0	LIMESTONE, boundstone, white (10YR8/1), very soft, wet, trace organics at top of formation, strong HCl reaction (Miami Formation)		
-6.8	5.0	2	7	8	15						707-3				5.0ft: fossiliferous, oolitic		
-9.3	7.5	5	22	7	29						707-4				7.5ft: white, (5Y8/1), soft		
-11.8	10.0	2	5	10	15						707-5				10.0ft: white (7.5YR8/1), very soft		
-14.3	12.5	1	3	7	10						707-6				12.5ft: white (10YR8/1)		
-16.8	15.0	2	5	13	18						707-7						
-21.8	20.0	3	19	33	52						707-8				20.0ft: white (2.5Y8/1), moderately hard		
-26.8	25.0	50/0.3											-25.8	24.0	23.5ft: Switch sampling method to coring		
-27.1	25.3												707-9		25.0ft: hard		
-30.6	28.8	50/0.3									RUN-1				LIMESTONE, boundstone, white (5Y8/1), moderately hard, indurated, fossiliferous, little vugs (Upper Fort Thompson Formation)		
-35.6	33.8												RUN-2		28.8ft: white (10YR8/1), hard		
-40.6	38.8	50/0.3									RUN-3				28.8ft: loss of circulation		
-45.6	43.8												RUN-4		33.8ft: pale yellow (5Y8/2), few vugs, coralline		
-50.6	48.8	50/0.3									RUN-5				38.8ft: white (10YR8/1)		
-55.6	53.8												RUN-6		43.8ft: white (10YR8/1), to light gray (10YR7/1)		
-60.6	58.8	50/0.3									RUN-7						
-65.6	63.8												RUN-8				
-70.6	68.8	50/0.3									RUN-9						
-75.6	73.8												RUN-10				
		50/0.3									RUN-11						

TURKEY POINT COL BORE, TURKEY POINT GP, TURKEY POINT COL GDT 5.30.08



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: H. Lyatuu				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (Miller)			DRILLER: R. White/ J. Dugger			GROUND WATER (ft)				
BORING NO.: B-707			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.8 ft (NAVD88)			NORTHING: 396,829 US ft (NAD83/90)			EASTING: 875,791 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 152.0 ft			BORING DIAMETER: 4" to 24.9', 3" to 152.0'			CASING DEPTH: 4" to 24.9', 3" to 110.0'			HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 2/13/08			COMPLETED: 2/21/08			CORE SIZE: HQ3			BITS USED: 2 15/16" & 3 7/8 Roller Cones				
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	MOI		
-76.6		Continued from previous page											
-80.6	78.8												LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, few vugs (Lower Fort Thompson Formation) (continued)
-85.6	83.8												
-90.6	88.8												
-95.6	93.8												
-100.6	98.8												
-104.6	102.8												102.8ft: No recovery-LIMESTONE and interbedded sand 103.8ft: No recovery-LIMESTONE and interbedded sand
-105.6	103.8												
-110.6	108.8												
-112.1	110.3	7	7	7									108.8ft: Switch sampling method to SPT very soft, wet 110.3ft: hard
		4	50/0.2										
-117.1	115.3	10	11	12									115.3ft: Silty SAND (SM), white (10YR8/1), medium dense, wet, fine to coarse grained sand, fine gravel, weak HCl reaction (Tamiami Formation)
-122.1	120.3	3	6	8									
-127.1	125.3	3	3	6									120.3ft: light brownish gray (10YR6/2)
-132.3	130.5	2	3	7									
-137.3	135.5	5	4	5									125.3ft: loose
-142.3	140.5	5	7	8									
-147.3	145.5	5	4	8									140.5ft: gray (2.5Y6/1 and 10YR6/1), medium dense, strong HCl reaction
													145.5ft: weak HCl reaction

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL.GDT 53008

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade		GEOLOGIST: H. Lyatuu			
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-550 (Miller)					DRILLER: R. White/ J. Dugger				GROUND WATER (ft)	
BORING NO.: B-707					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.8 ft (NAVD88)					NORTHING: 396,829 US ft (NAD83/90)					EASTING: 875,791 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 152.0 ft			BORING DIAMETER: 4" to 24.9', 3" to 152.0'					CASING DEPTH: 4" to 24.9', 3" to 110.0'				HAMMER (ID): 140 lb. Auto (M06)			
DATE STARTED: 2/13/08			COMPLETED: 2/21/08			CORE SIZE: HQ3			BITS USED: 2 15/16" & 3 7/8 Roller Cones						
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					
-151.4					Continued from previous page										
-152.3	150.5	5	7	10							707-19			-153.8 150.5ft: strong HCl reaction Boring Terminated at Elevation -153.8 ft 152.0	



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: H. Lyatuu
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (Miller)	DRILLER: R. White/ J. Dugger	GROUND WATER (ft)
BORING NO.: B-707	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.8 ft (NAVD88)	NORTHING: 396,829 US ft (NAD83/90)	EASTING: 875,791 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 152.0 ft	CASING DEPTH: 4" to 24.9', 3" to 110.0'	HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 2/13/08	COMPLETED: 2/21/08	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 @ 25.3 ft
-27.1	25.3	3.5	4:26 1:18 1:34 0.42/0.5	(3.5) 100%	(2.9) 83%	RUN-1	(22.1) 94%	(18.3) 78%		LIMESTONE, boundstone, white (5Y8/1), moderately hard, indurated, fossiliferous, little vugs (Upper Fort Thompson Formation) (continued)
-30.6	28.8	5.0	1:29 1:44 2:31 3:23 4:28	(4.6) 92%	(2.8) 56%	RUN-2				28.8ft: white (10YR8/1), hard 28.8ft: loss of circulation
-35.6	33.8	5.0	2:52 1:44 2:27 2:06 2:49	(4.6) 92%	(3.9) 78%	RUN-3				33.8ft: pale yellow (5Y8/2), few vugs, coralline
-40.6	38.8	5.0	1:59 2:02 2:00 1:49 1:37	(4.6) 92%	(4.6) 92%	RUN-4				38.8ft: white (10YR8/1)
-45.6	43.8	5.0	1:42 1:49 4:15 5:12 3:01	(4.8) 96%	(4.1) 82%	RUN-5				43.8ft: white (10YR8/1), to light gray (10YR7/1)
-50.6	48.8	5.0	2:50 3:38 3:28 3:08 2:41	(5.0) 100%	(3.7) 74%	RUN-6	(42.4) 71%	(30.3) 51%		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, few vugs (Lower Fort Thompson Formation)
-55.6	53.8	5.0	2:19 3:15 2:22 1:32 2:44	(4.9) 98%	(4.7) 94%	RUN-7				
-60.6	58.8	5.0	2:16 1:44 1:28 1:31 2:01	(5.0) 100%	(5.0) 100%	RUN-8				
-65.6	63.8	5.0	1:07 0:51 0:10 0:52 1:07	(2.4) 48%	(0.8) 16%	RUN-9				
-70.6	68.8	5.0	2:35 2:10 2:22 1:38 2:48	(4.1) 82%	(2.4) 48%	RUN-10				
-75.6	73.8	5.0	1:34 2:27 3:18 1:57 3:36	(4.6) 92%	(3.4) 68%	RUN-11				
-80.6	78.8	5.0	2:09 2:05 1:23 1:44 0:58	(4.1) 82%	(2.7) 54%	RUN-12				
-85.6	83.8	5.0	0:54 1:02 2:38 3:55 4:55	(4.3) 86%	(3.1) 62%	RUN-13				
-90.6	88.8	5.0	1:40 1:32 1:10 0:41 0:43	(3.8) 76%	(2.9) 58%	RUN-14				
-95.6	93.8	5.0	1:50 0:48 1:51 1:08 1:22	(3.5) 70%	(1.6) 32%	RUN-15				
-100.6	98.8	4.0	4:20	(0.7)	(0.0)	RUN-16				

TURKEY POINT COL CORE TURKEY POINT GP TURKEY POINT COL GDI 5'30'08

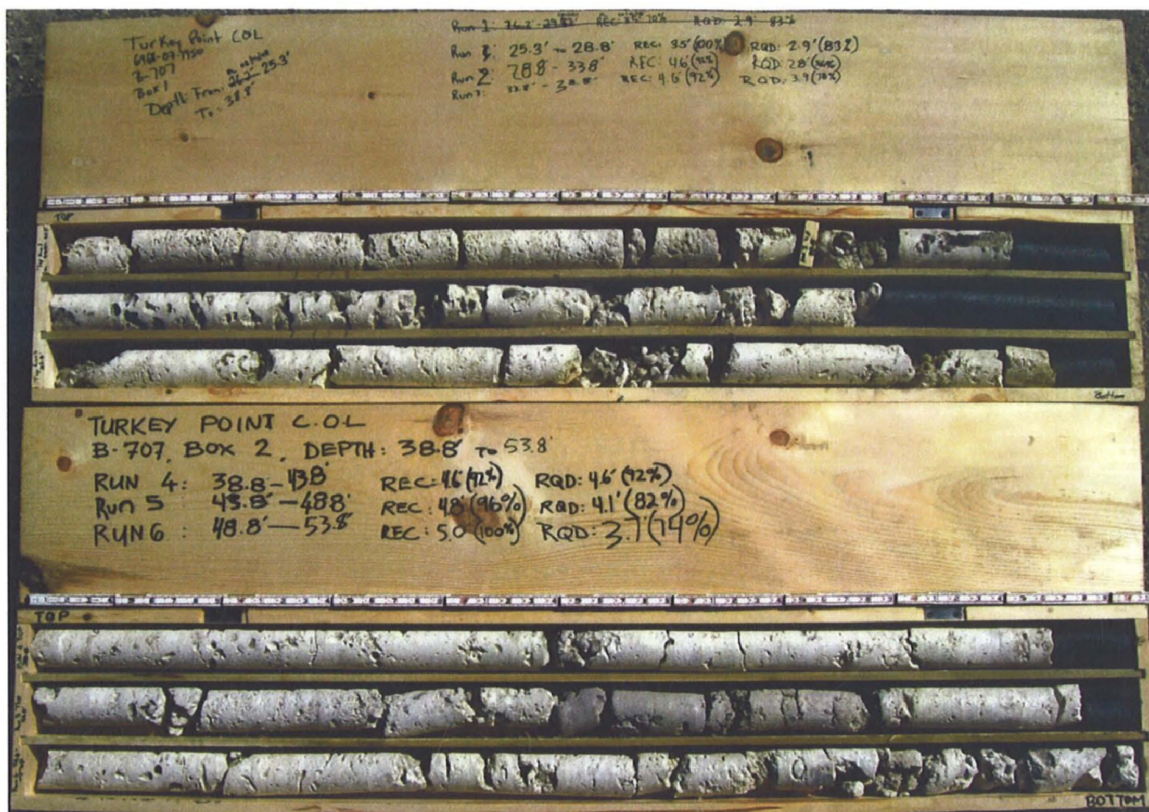


SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: H. Lyatuu
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (Miller)	DRILLER: R. White/ J. Dugger	GROUND WATER (ft)
BORING NO.: B-707	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.8 ft (NAVD88)	NORTHING: 396,829 US ft (NAD83/90)	EASTING: 875,791 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 152.0 ft	CASING DEPTH: 4" to 24.9', 3" to 110.0'	HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 2/13/08	COMPLETED: 2/21/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

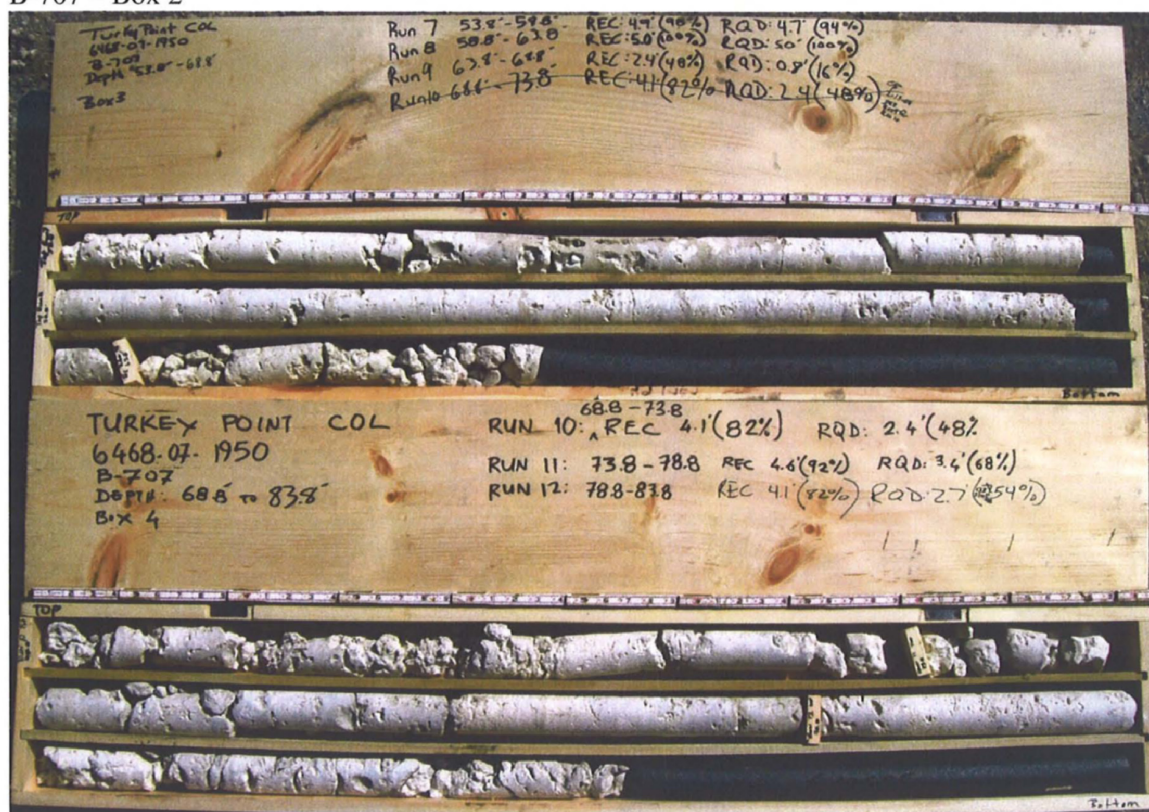
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Continued from previous page
-104.6	102.8		2:15 2:50 2:25	18%	0%					LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, few vugs (Lower Fort Thompson Formation) (continued)
-105.6	103.8	1.0	1:23	(0.0)	(0.0)	RUN-17				102.8ft: No recovery-LIMESTONE and interbedded sand
		5.0	1:06 1:11 1:20 1:29 0:57	0% (0.0) 0%	0% (0.0) 0%	RUN-18				103.8ft: No recovery-LIMESTONE and interbedded sand
-110.6	108.8									-110.6
										Coring Terminated at Elevation -110.6

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



B-707 - Box 1

B-707 - Box 2



B-707 - Box 3

B-707 - Box 4