



GEOTECHNICAL BORING LOG

Prepared By PTM Date 5-30-08

Checked By PTM Date 5-30-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Woodham								
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: P. Pitts/ R. Landeros		GROUND WATER (ft)								
BORING NO.: B-705		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA							
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 396,919 US ft (NAD83/90)		EASTING: 875,846 US ft (NAD83/90)		24 HR.	NA							
TOTAL DEPTH: 200.0 ft		BORING DIAMETER: 4" to 35.0", 3" to 200.0"		CASING DEPTH: 4" to 35.0', 3" to 135.0'		HAMMER (ID): 140 lb. Auto (MEC-05)								
DATE STARTED: 2/22/08		COMPLETED: 2/24/08		CORE SIZE: HQ3		BITS USED: 2 15/16" 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	
-1.3					Ground Surface							-1.3	0.0	
-1.3	0.0	WOH	WOH	WOH	0						705-1			MUCK, very dark brown (10YR2/2), very soft, wet
-3.8	2.5	3	11	11							705-2			
-6.6	5.3	7	9	7							705-3			LIMESTONE, boundstone, white (5Y8/1), soft, moderately indurated, wet, strong HCl reaction (Miami Formation)
-8.8	7.5	6	4	8							705-4			5.3ft: very soft
-11.3	10.0	5	7	12							705-5			7.5ft: fossiliferous, oolitic
-13.8	12.5	7	8	25							705-6			12.5ft: medium hard
-16.3	15.0	14	14	22							705-7			
-19.8	18.5	4	4	8							705-8			18.5ft: very soft
-24.8	23.5	6	10	5							705-9			
-29.8	28.5	15	22	17							705-10			LIMESTONE, boundstone, white (5Y8/1), medium hard, moderately indurated, wet, strong HCl reaction, fossiliferous (Upper Fort Thompson Formation)
-34.8	33.5	9	8	12							705-11			28.0ft: loss of circulation
-36.3	35.0										RUN-1			33.5ft: very soft
-39.8	38.5										RUN-2			35.0ft: Switch sampling method to coring
-44.8	43.5										RUN-3			35.0ft: white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, coralline
-49.8	48.5										RUN-4			38.5ft: recrystallized calcite
-54.8	53.5										RUN-5			43.5ft: white (10YR8/1) to 45.8ft then gray (2.5Y6/1) to 47.3ft. little vugs
-59.8	58.5										RUN-6			
-64.8	63.5										RUN-7			LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little vugs, few recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation)
-69.8	68.5										RUN-8			48.5ft: few vugs
-74.8	73.5										RUN-9			58.5ft: extremely indurated
														63.5ft: indurated
														68.5ft: some vugs
														73.5ft: little vugs

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: S. Woodham	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: P. Pitts/ R. Landeros		GROUND WATER (ft)	
BORING NO.: B-705		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 396,919 US ft (NAD83/90)		EASTING: 875,846 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 200.0 ft		BORING DIAMETER: 4" to 35.0', 3" to 200.0'		CASING DEPTH: 4" to 35.0', 3" to 135.0'		HAMMER (ID): 140 lb. Auto (MEC-05)	

DATE STARTED: 2/22/08	COMPLETED: 2/24/08	CORE SIZE: HQ3	BITS USED: 2 15/16" Roller Cone
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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
-76.1		Continued from previous page											
-79.8	78.5											RUN-10	Limestone, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little vugs, few recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) <i>(continued)</i> 78.5ft: moderately hard to hard, moderately indurated to indurated, few vugs 83.5ft: hard, indurated 88.5ft: mostly shell molds and casts 103.5ft: extremely indurated 108.5ft: indurated 113.5ft: very soft, friable Silty SAND (SM), greenish gray (10YR6/1), medium dense, wet, fine to coarse grained sand, weak HCl reaction, little fines, trace shell fragments, fine gravel (Tamiami Formation) 118.5ft: Switch sampling method to SPT 118.5ft: no recovery 123.5ft: Limestone, boundstone, pale yellow (2.5Y7/3), very soft, friable, wet, strong HCl reaction, fragmented, sandy 133.5ft: few cemented sand pockets 138.5ft: greenish gray (5GY6/1), strong HCl reaction, fine to medium grained sand 143.5ft: trace shell fragments
-84.8	83.5											RUN-11	
-89.8	88.5											RUN-12	
-94.8	93.5											RUN-13	
-99.8	98.5											RUN-14	
-104.8	103.5											RUN-15	
-109.8	108.5											RUN-16	
-114.8	113.5											RUN-17	
-119.8	118.5	4	6	8								705-12	
-124.8	123.5	5	12	8								705-13	
-129.8	128.5	4	4	7								705-14	
-134.8	133.5	5	8	11								705-15	
-139.8	138.5	4	5	6								705-16	
-144.8	143.5	7	11	11								705-17	
-149.8	148.5	5	8	14								705-18	

TURKEY POINT COL BORE TURKEY POINT G.P.I. TURKEY POINT COL G.D.T. 5:30/08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Woodham	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: P. Pitts/ R. Landeros		GROUND WATER (ft)	
BORING NO.: B-705		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 396,919 US ft (NAD83/90)		EASTING: 875,846 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 200.0 ft		BORING DIAMETER: 4" to 35.0', 3" to 200.0'		CASING DEPTH: 4" to 35.0', 3" to 135.0'		HAMMER (ID): 140 lb. Auto (MEC-05)	

DATE STARTED: 2/22/08	COMPLETED: 2/24/08	CORE SIZE: HQ3	BITS USED: 2 15/16" Roller Cone
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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	
-150.9					Continued from previous page									
-154.8	153.5	3	6	9						705-19		148.5ft: weak HCl reaction Silty SAND (SM), greenish gray (10YR6/1), medium dense, wet, fine to coarse grained sand, weak HCl reaction, little fines, trace shell fragments, fine gravel (Tamiami Formation) <i>(continued)</i>		
-159.8	158.5	3	5	7						705-20				
-164.8	163.5	5	6	14						705-21				
-169.8	168.5	3	5	10						705-22				
-174.8	173.5	2	3	4						705-23			-174.8	
-179.8	178.5	2	3	4						705-24				
-184.8	183.5	2	5	15						705-25			183.5ft: very stiff	
-189.8	188.5	2	3	6						705-26			188.5ft: stiff, strong HCl reaction	
-194.8	193.5	2	3	10						705-27				
-199.8	198.5	3	5	15						705-28			198.5ft: very stiff	
												-201.3	200.0	Boring Terminated at Elevation -201.3 ft

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: S. Woodham	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: P. Pitts/ R. Landeros		GROUND WATER (ft)	
BORING NO.: B-705		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 396,919 US ft (NAD83/90)		EASTING: 875,846 US ft (NAD83/90)		24 HR.	NA
TOTAL DEPTH: 200.0 ft		CASING DEPTH: 4" to 35.0', 3" to 135.0'				HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 2/22/08		COMPLETED: 2/24/08		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 @ 35.0 ft
-36.3	35.0	3.5	1:50 1:27 1:28	(1.6) 46%	(0.4) 11%	RUN-1	(10.2) 83%	(7.2) 59%		LIMESTONE, boundstone, white (5Y8/1), medium hard, moderately indurated, wet, strong HCl reaction, fossiliferous (Upper Fort Thompson Formation)
-39.8	38.5	5.0	0:53/0.5 0:50 0:59 0:45 0:52 0:59	(4.8) 96%	(4.0) 80%	RUN-2				28.0ft: loss of circulation (continued) 35.0ft: white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, coralline 38.5ft: recrystallized calcite
-44.8	43.5	5.0	1:00 2:05 1:06 0:49 1:02	(5.0) 100%	(2.8) 56%	RUN-3				43.5ft: white (10YR8/1) to 45.8ft then gray (2.5Y6/1) to 47.3ft, little vugs
-49.8	48.5	5.0	1:12 1:04 1:17 1:14 0:49	(5.0) 100%	(4.4) 88%	RUN-4	(50.6) 75%	(32.6) 48%	-48.6	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little vugs, few recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) 48.5ft: few vugs
-54.8	53.5	5.0	0:57 0:48 0:58 0:45 0:58	(4.9) 98%	(2.1) 42%	RUN-5				58.5ft: extremely indurated
-59.8	58.5	5.0	0:38 0:44 1:20 1:15 1:06	(5.0) 100%	(5.0) 100%	RUN-6				63.5ft: indurated
-64.8	63.5	5.0	0:44 0:51 0:35 0:47 0:35	(3.1) 62%	(2.0) 40%	RUN-7				68.5ft: some vugs
-69.8	68.5	5.0	0:48 0:47 0:32 0:28 0:23	(2.0) 40%	(0.4) 8%	RUN-8				73.5ft: little vugs
-74.8	73.5	5.0	0:48 0:47 0:40 0:58 1:07	(4.2) 84%	(1.8) 36%	RUN-9				78.5ft: moderately hard to hard, moderately indurated to indurated, few vugs
-79.8	78.5	5.0	0:42 0:32 0:40 0:45 0:48	(4.2) 84%	(2.2) 44%	RUN-10				83.5ft: hard, indurated
-84.8	83.5	5.0	0:25 0:31 0:45 1:21 1:58	(3.8) 76%	(2.4) 48%	RUN-11				88.5ft: mostly shell molds and casts
-89.8	88.5	5.0	0:38 0:33 0:40 0:36 0:37	(4.0) 80%	(2.3) 46%	RUN-12				103.5ft: extremely indurated
-94.8	93.5	5.0	0:25 0:33 1:29 0:27 0:25	(0.8) 16%	(0.0) 0%	RUN-13				108.5ft: indurated
-99.8	98.5	5.0	0:23 0:32 0:31 0:39 0:39	(3.7) 74%	(2.3) 46%	RUN-14				
-104.8	103.5	5.0	0:48 0:41 0:32 0:34 0:30	(5.0) 100%	(5.0) 100%	RUN-15				
-109.8	108.5	5.0	0:31	(3.4) (2.7)		RUN-16				

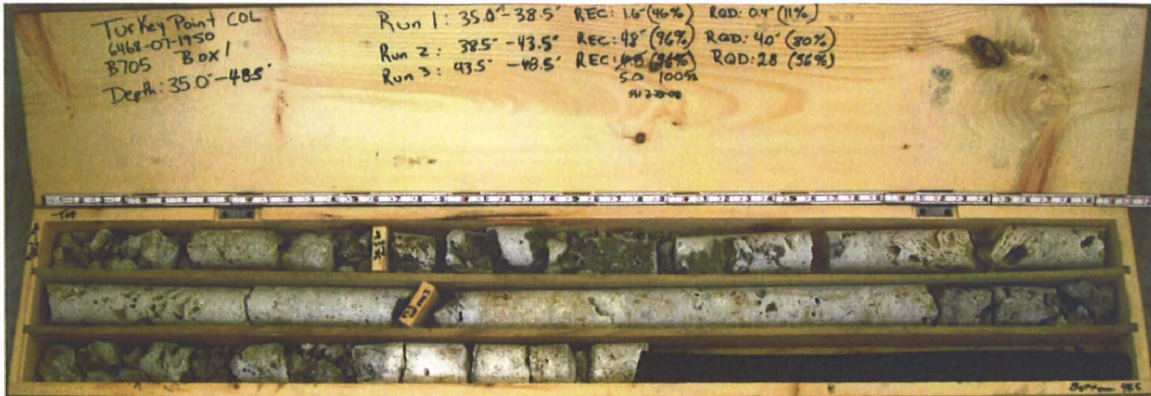
TURKEY POINT COL CORE TURKEY POINT G.P.I. TURKEY POINT COL G.D.F. 5/30/08



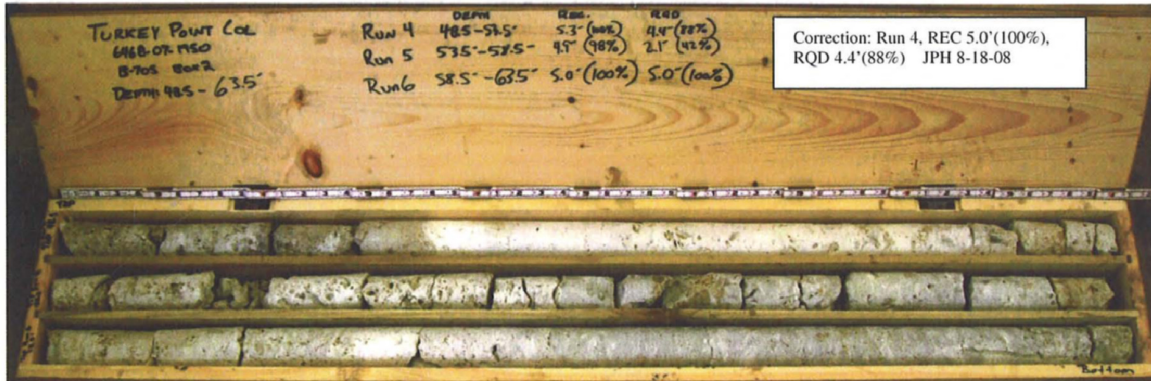
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: P. Pitts/ R. Landeros	GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-705	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.3 ft (NAVD88)	NORTHING: 396,919 US ft (NAD83/90)	EASTING: 875,846 US ft (NAD83/90)	
TOTAL DEPTH: 200.0 ft	CASING DEPTH: 4" to 35.0', 3" to 135.0'		HAMMER (ID): 140 lb. Auto (MEC-05)
DATE STARTED: 2/22/08	COMPLETED: 2/24/08	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
-114.8	113.5		0:26 0:27 0:31 0:25	68%	54%					LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little vugs, few recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) (continued)
		5.0	1:18 0:29 0:30 0:35 0:31	(0.3) 6%	(0.0) 0%	RUN-17	(0.0) 0%	(NA)		113.5ft: very soft, friable Silty SAND (SM), greenish gray (10YR6/1), medium dense, wet, fine to coarse grained sand, weak HCl reaction, little fines, trace shell fragments, fine gravel (Tamiami Formation)
-119.8	118.5									Coring Terminated at Elevation -119.8

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL.GDT 5.30.08



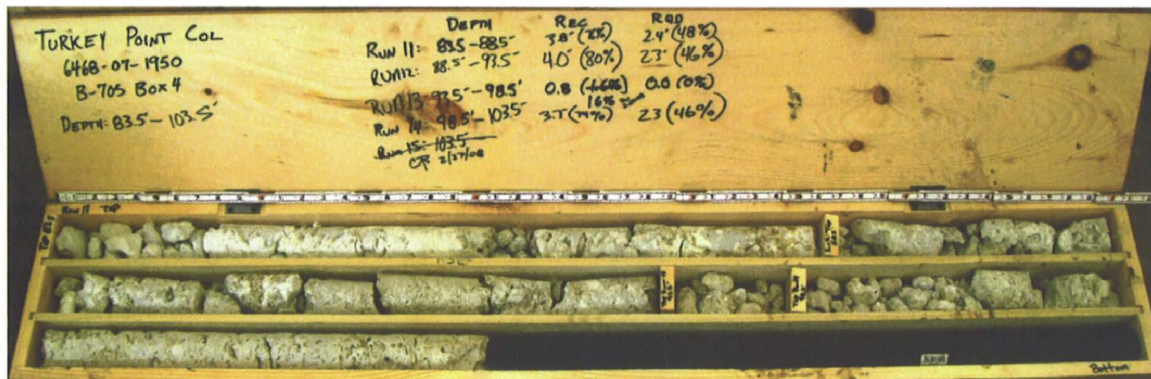
B-705 - Box 1



B-705 - Box 2



B-705 - Box 3



B-705 - Box 4



B-705 - Box 5



GEOTECHNICAL BORING LOG

Prepared By SPZ Date 8-19-08

Checked By SJC Date 9/19/08

SHEET 1 OF 3

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		BORING DIAMETER: 3" to 151.9'		CASING DEPTH: 3" to 117.3'		HAMMER (ID): 140 lb. Auto (07)									
DATE STARTED: 2/9/08		COMPLETED: 2/13/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Drag Bit & 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	
-1.2					Ground Surface									0.0	
-1.2	0.0	WOH	WOH	WOH							706-1				-1.2
-4.3	3.1	7	6	7							706-2				-4.4
-7.2	6.0	5	50	29							706-3				
-9.2	8.0	3	4	4							706-4				
-11.7	10.5	4	9	48							706-5				
-14.1	12.9	8	19	11							706-6				
-16.9	15.7	50/0.3									706-7				
-17.2	16.0	50/0.3									RUN-1				
-22.2	21.0										RUN-2				
-27.2	26.0	3	1	6							706-R				-25.7
-32.0	30.8										RUN-3				-32.4
-37.0	35.8										RUN-4				
-42.0	40.8										RUN-5				
-47.0	45.8										RUN-6				
-52.0	50.8										RUN-7				-49.2
-57.0	55.8										RUN-8				
-62.0	60.8										RUN-9				
-67.0	65.8										RUN-10				
-72.0	70.8										RUN-11				

TURKEY POINT COL BORE TURKEY POINT GP1 TURKEY POINT COL GDT S. 18 US



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		BORING DIAMETER: 3" to 151.9'		CASING DEPTH: 3" to 117.3'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 2/9/08		COMPLETED: 2/13/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Drag Bit & 2 15/16" Roller Cone							
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-76.0					Continued from previous page								
-77.0	75.8												LIMESTONE, boundstone, pale yellow (5Y8/2), moderately hard, indurated, little vugs, porous, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-82.0	80.8												80.8ft: little vugs 83.0ft to 84.0ft: soft zone
-87.0	85.8												85.8ft: few vugs 87.0ft to 90.0ft: soft zone
-92.0	90.8												91.0ft to 94.0ft: soft zone
-97.0	95.8												
-102.0	100.8												
-107.0	105.8												100.8ft: some vugs 104.0ft to 105.8ft: soft zone
-112.0	110.8												105.8ft: few vugs
-117.0	115.8												
-117.0	115.8	5	17	17									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)
-122.0	120.8	3	4	8									120.8ft: pale yellow (5Y7/3), medium dense
-127.1	125.9	3	4	8									Silty SAND (SM), pale yellow (5Y7/3), medium dense, wet, fine to medium grained sand, fine gravel, strong HCl reaction
-131.6	130.4	3	4	5									130.4ft: light gray (5Y7/2), loose, trace shell fragments
-136.6	135.4	4	3	4									135.4ft: strong to weak HCl reaction, fine to coarse grained sand
-141.6	140.4	7	8	10									140.4ft: light olive gray (5Y6/2), medium dense, strong HCl reaction
-146.6	145.4	5	8	16									Silty GRAVEL with sand (GM), light olive gray (5Y6/2), medium dense, wet, fine to coarse gravel sized cemented sand fragments, fine to coarse grained sand, strong HCl reaction

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8 18 08



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		BORING DIAMETER: 3" to 151.9'		CASING DEPTH: 3" to 117.3'		HAMMER (ID): 140 lb. Auto (07)						
DATE STARTED: 2/9/08		COMPLETED: 2/13/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Drag Bit & 2 15/16" Roller Cone						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-150.8					Continued from previous page							
-151.6	150.4	4	6	9						706-16	LOG	
												Boring Terminated at Elevation -153.1 ft

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDI 8/13/08



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	
BORING NO.: B-706		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.2 ft (NAVD88)		NORTHING: 396,963 US ft (NAD83/90)		EASTING: 875,885 US ft (NAD83/90)	
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		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										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) (continued) 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		N=7			706-8	(0.4) 21%	(NA)		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 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%		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	5.0	3:18 2:22 3:45 0:50 0:45	(3.6) 72%	(3.3) 66%	RUN-7	(51.1) 77%	(43.3) 66%		LIMESTONE, boundstone, pale yellow (5Y8/2), moderately hard, indurated, little vugs, porous, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) 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 CORE TURKEY POINT:GP TURKEY POINT COL GDT 8 18 08



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	
BORING NO.: B-706		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.2 ft (NAVD88)		NORTHING: 396,963 US ft (NAD83/90)		EASTING: 875,885 US ft (NAD83/90)	
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		LOG	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				100.8ft: some vugs 104.0ft to 105.8ft: soft zone
-107.0	105.8	5.0	0.45 0.48 0.38 0.46 0.45	(5.0) 100%	(4.8) 96%	RUN-17				105.8ft: few vugs
-112.0	110.8	5.0	0.46 0.52 0.38 0.42 0.41	(4.1) 82%	(3.3) 66%	RUN-18				
-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

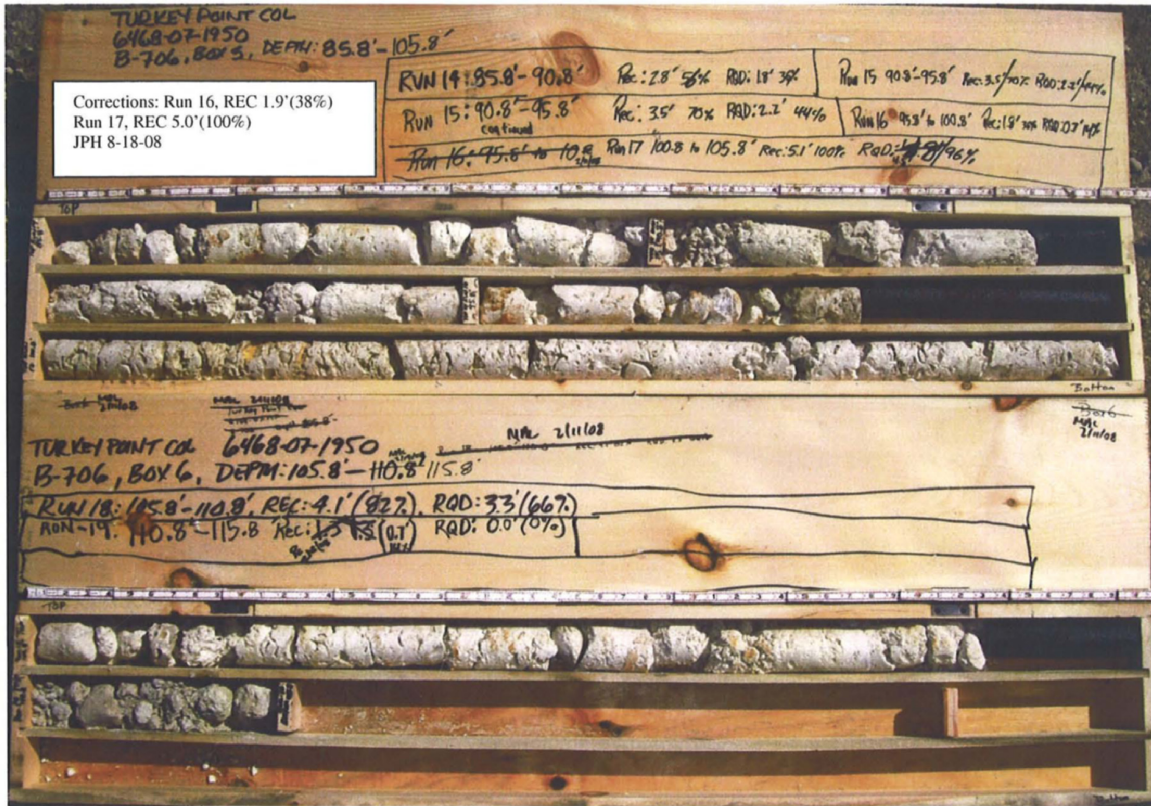
TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/18/08



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 DPK 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.	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100		
-1.8					Ground Surface								0.0		
-1.8	0.0	WOH	WOH	WOH	0						707-1			-1.8	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							707-2			-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							707-3				5.0ft: fossiliferous, oolitic
-9.3	7.5	5	22	7							707-4				7.5ft: white, (5Y8/1), soft
-11.8	10.0	2	5	10							707-5				10.0ft: white (7.5YR8/1), very soft
-14.3	12.5	1	3	7							707-6				12.5ft: white (10YR8/1)
-16.8	15.0	2	5	13							707-7				
-21.8	20.0	3	19	33							707-8				20.0ft: white (2.5Y8/1), moderately hard
-26.8	25.0													-25.8	23.5ft: Switch sampling method to coring
-27.1	25.3	50/0.3									707-9			25.0ft: hard	24.0
-30.6	28.8										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										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										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										RUN-7				
-65.6	63.8										RUN-8				
-70.6	68.8										RUN-9				
-75.6	73.8										RUN-10				
											RUN-11				

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: 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
-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												
-105.6	103.8												102.8ft: No recovery-LIMESTONE and interbedded sand 103.8ft: No recovery-LIMESTONE and interbedded sand
-110.6	108.8												
-112.1	110.3	7	7	7									
		4	50/0.2										108.8ft: Switch sampling method to SPT very soft, wet 110.3ft: hard
-117.1	115.3	10	11	12									
-122.1	120.3	3	6	8									
-127.1	125.3	3	3	6									
-132.3	130.5	2	3	7									
-137.3	135.5	5	4	5									
-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 5/30/08



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) 0 HR. NA 24 HR. NA	
BORING NO.: B-707		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core			
GROUND ELEV.: -1.8 ft (NAVD88)		NORTHING: 396,829 US ft (NAD83/90)		EASTING: 875,791 US ft (NAD83/90)			
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		LOG	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	(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) <i>(continued)</i>
-30.6	28.8	5.0	0.42/0.5 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				

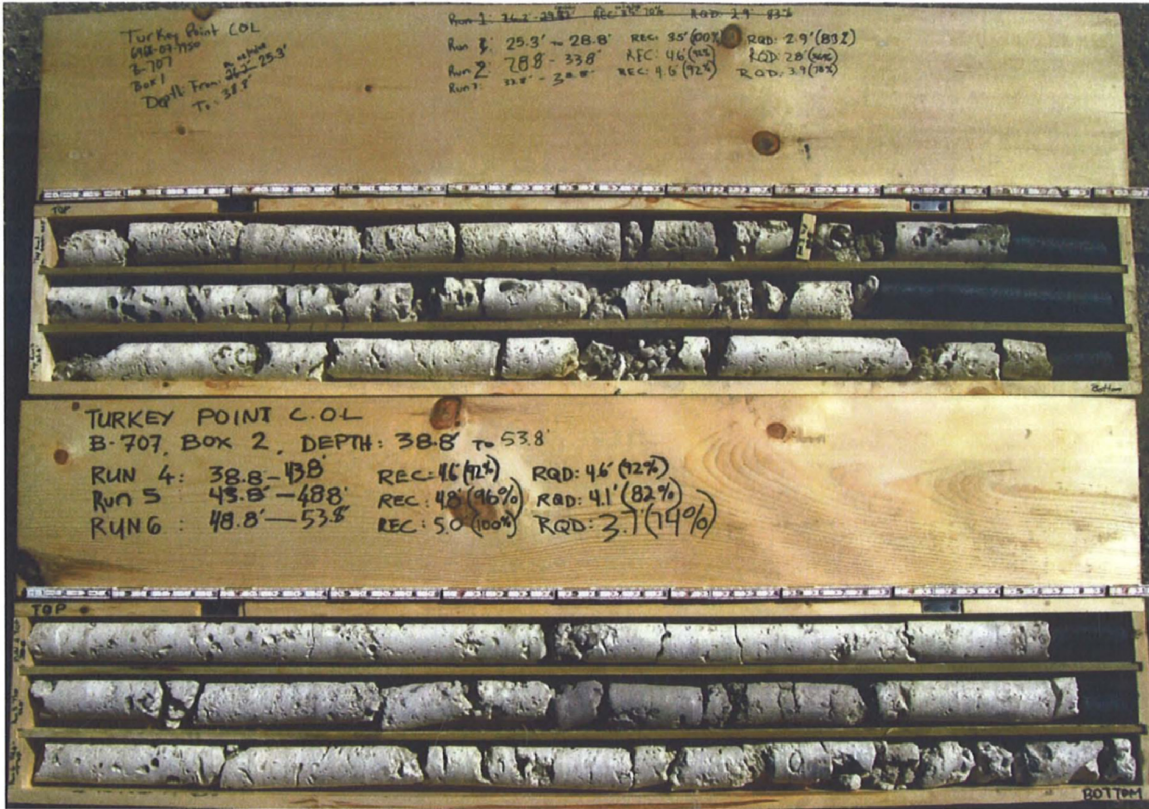
TURKEY POINT COL CORE TURKEY POINT GP TURKEY POINT COL GDI 5'30"08



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	
BORING NO.: B-707		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.8 ft (NAVD88)		NORTHING: 396,829 US ft (NAD83/90)		EASTING: 875,791 US ft (NAD83/90)	
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)	

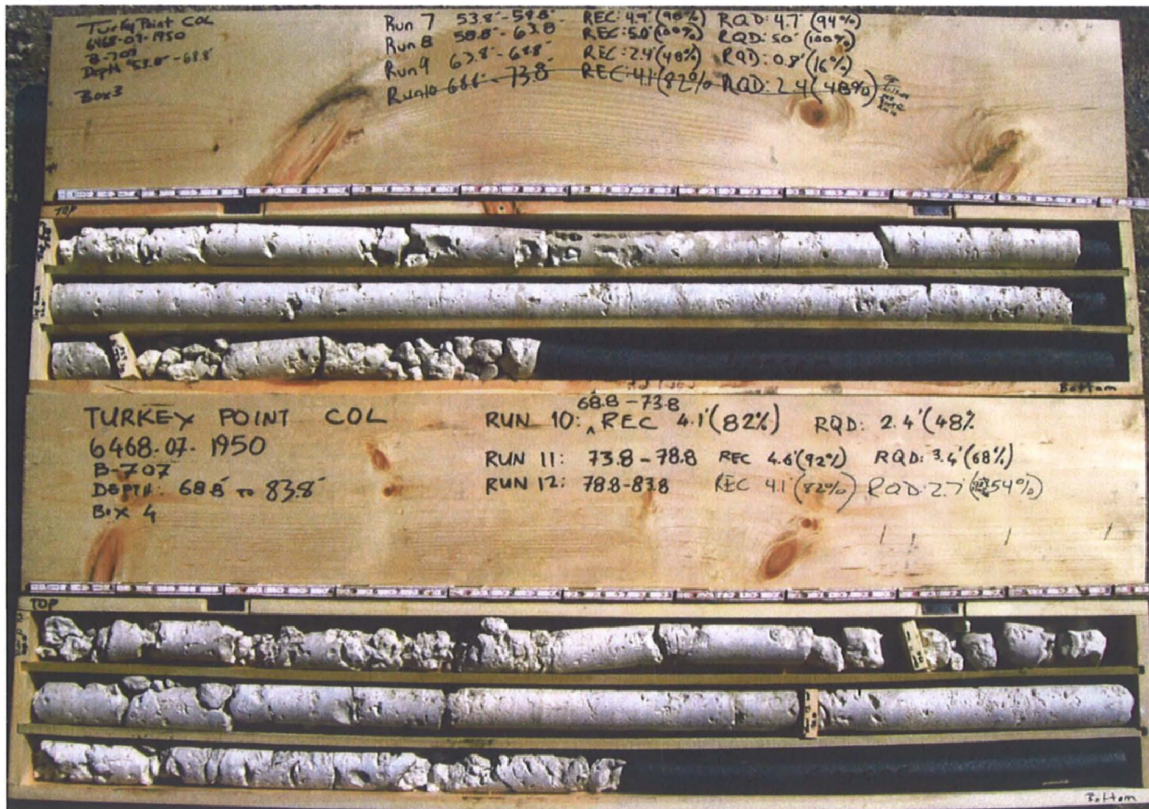
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
			2:15 2:50 2:25	18%	0%					Continued from previous page
-104.6	102.8									LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, 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	0%	0%	RUN-18				103.8ft: No recovery-LIMESTONE and interbedded sand
			1:11	(0.0)	(0.0)					
			1:20	0%	0%					
			1:29							
-110.6	108.8		0:57							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