



GEOTECHNICAL BORING LOG

Prepared By *[Signature]* Date 5-30-08

Checked By *[Signature]* Date 6-2-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: J. Liles							
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger		GROUND WATER (ft)					
BORING NO.: B-714				DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA				
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 876,021 US ft (NAD83/90)		24 HR.		NA					
TOTAL DEPTH: 125.6 ft		BORING DIAMETER: 4" to 27.7", 3" to 125.6'		CASING DEPTH: 4" to 27.7", 3" to 115.0'		HAMMER (ID): 140 lb. Auto (M06)							
DATE STARTED: 4/16/08		COMPLETED: 4/17/08		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
-1.0					Ground Surface							-1.0	0.0
-1.0	0.0	WOH	WOH	WOH							714-1		MUCK, olive brown (2.5Y4/3), very soft, wet, strong HCl reaction, mostly organic
-3.7	2.7										714-2A&B		
-6.2	5.2	WOH	5	5	10								LIMESTONE boundstone, light gray (2.5Y7/2), very soft, wet, some fine grained sand, strong HCl reaction, oolitic (Miami Formation)
-8.7	7.7	20	16	11	27						714-3		5.2ft: white (2.5Y8/1), soft
-10.9	9.9	11	21	3	24						714-4		7.7ft: trace sand
-13.4	12.4	4	8	7	15						714-5		9.9ft: very soft
-16.1	15.1	14	20	14	34						714-6		12.4ft: medium hard
-22.8	21.8	9	18	31	49						714-7		15.1ft: moderately hard
-27.9	26.9	8	6	6	12						714-8		21.8ft: very soft
-28.7	27.7	44	50/0.3							94/0.8	714-9		LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-32.0	31.0										RUN-1		27.7ft: Switch sampling method to coring
-37.0	36.0										RUN-2		27.7ft: moderately hard, moderately indurated
-42.0	41.0										RUN-3		31.0ft: moderately hard to hard, moderately indurated, trace vugs, coralline, recrystallized calcite
-47.0	46.0										RUN-4		36.0ft: little vugs
-52.0	51.0										RUN-5		41.0ft: medium hard to moderately hard, friable to moderately indurated, few vugs
-57.0	56.0										RUN-6		46.0ft: white (2.5Y8/1) to 46.5ft then light gray (10YR7/1) to 47.7ft
-62.0	61.0										RUN-7		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation)
-67.0	66.0										RUN-8		51.0ft: moderately hard to hard
-72.0	71.0										RUN-9		56.0ft: medium hard to moderately hard, friable to moderately indurated
-73.5	72.5	6	5	7	12						714-10		61.0ft: medium hard to hard, friable to indurated, trace sand
											RUN-10		66.0ft: soft to medium hard, friable to moderately indurated, little fine grained sand
													71.0ft: Switch sampling method to SPT
													71.0 to 71.5ft: POORLY GRADED SAND (SP), white (2.5Y8/1), medium dense, fine grained,

TURKEY POINT COL BORE TURKEY POINT COL GDI: 5/30/08





BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: J. Liles	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger		GROUND WATER (ft)	
BORING NO.: B-714		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 876,021 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 125.6 ft		CASING DEPTH: 4" to 27.7', 3" to 115.0'				HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 4/16/08		COMPLETED: 4/17/08		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 @ 27.7 ft
-28.7	27.7	3.3	1:40 1:31 1:39	(3.3) 100%	(2.7) 82%	RUN-1	(19.5) 98%	(11.2) 56%		LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation) (continued) 27.7ft: moderately hard, moderately indurated
-32.0	31.0	5.0	1:23 1:03 1:22 1:32 1:10	(4.9) 98%	(3.6) 72%	RUN-2				31.0ft: moderately hard to hard, moderately indurated to indurated, trace vugs, coralline, recrystallized calcite
-37.0	36.0	5.0	1:15 1:12 0:57 1:01 1:12	(5.0) 100%	(0.9) 18%	RUN-3				36.0ft: little vugs
-42.0	41.0	5.0	1:20 1:12 1:31 1:00 0:40	(4.6) 92%	(2.6) 52%	RUN-4				41.0ft: medium hard to moderately hard, friable to moderately indurated, few vugs
-47.0	46.0	5.0	1:10 1:44 1:49 2:16 2:13	(4.4) 88%	(3.7) 74%	RUN-5				46.0ft: white (2.5Y8/1) to 46.5ft then light gray (10YR7/1) to 47.7ft
-52.0	51.0	5.0	1:10 1:44 1:49 2:16 2:13	(4.4) 88%	(3.7) 74%	RUN-5	(43.6) 67%	(17.9) 28%		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) 51.0ft: moderately hard to hard
-57.0	56.0	5.0	2:04 1:47 1:52 1:28 0:59	(4.9) 98%	(4.0) 80%	RUN-6				56.0ft: medium hard to moderately hard, friable to moderately indurated
-62.0	61.0	5.0	0:58 0:49 1:05 0:52 1:15	(4.2) 84%	(1.7) 34%	RUN-7				61.0ft: medium hard to hard, friable to indurated, trace sand
-67.0	66.0	5.0	1:41 1:27 1:41 0:45 0:31	(3.8) 76%	(2.9) 58%	RUN-8				66.0ft: soft to medium hard, friable to moderately indurated, little fine grained sand
-72.0	71.0	5.0	0:28 0:11 0:30 0:38 0:28 N=12	(1.2) 24%	(0.0) 0%	RUN-9				71.0ft: Switch sampling method to SPT 71.0 to 71.5ft: POORLY GRADED SAND (SP), white (2.5Y8/1), medium dense, fine grained, strong HCl reaction 71.5ft: transition to limestone 72.5ft: Switch sampling method to coring 72.5ft: moderately hard, moderately indurated, trace fine sand 76.0ft: few sand
-73.5	72.5	3.5	0:14/0.5 0:14 0:23 0:25	(1.3) 37%	(0.0) 0%	RUN-10				81.0ft: medium hard to moderately hard, friable to moderately indurated
-77.0	76.0	5.0	0:22 0:35 3:29 2:09 0:42	(2.4) 48%	(0.5) 10%	RUN-11				86.0ft: moderately hard to hard, moderately indurated to indurated, little vugs, few shell molds
-82.0	81.0	5.0	0:19 0:36 8:25 1:33 1:02	(2.7) 54%	(0.3) 6%	RUN-12				91.0ft: medium hard to moderately hard, friable to moderately indurated, sandy
-87.0	86.0	5.0	2:11 2:05 1:52 2:19 1:06	(4.6) 92%	(2.1) 42%	RUN-13				96.0ft: moderately hard, moderately indurated, little vugs
-92.0	91.0	5.0	1:01 1:11 0:55 0:58 1:26	(2.8) 56%	(0.0) 0%	RUN-14				101.0ft: mostly vugs, little to some shell molds and casts
-97.0	96.0	5.0	0:43 0:55 0:44 0:48 0:55	(3.1) 62%	(1.0) 20%	RUN-15				
-102.0	101.0	5.0	0:28	(4.0)	(0.4)	RUN-16				

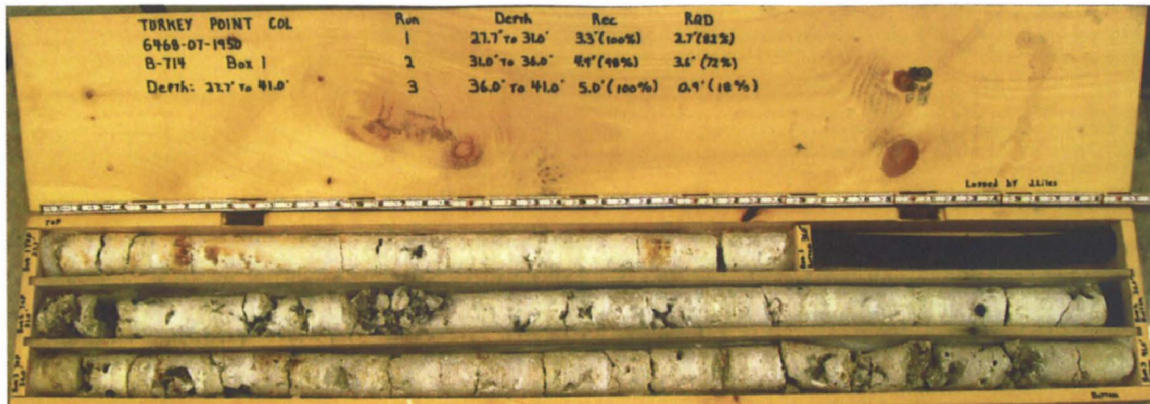
TURKEY POINT COL CORE: TURKEY POINT.GPJ TURKEY POINT COL.GDT: 5/30/08



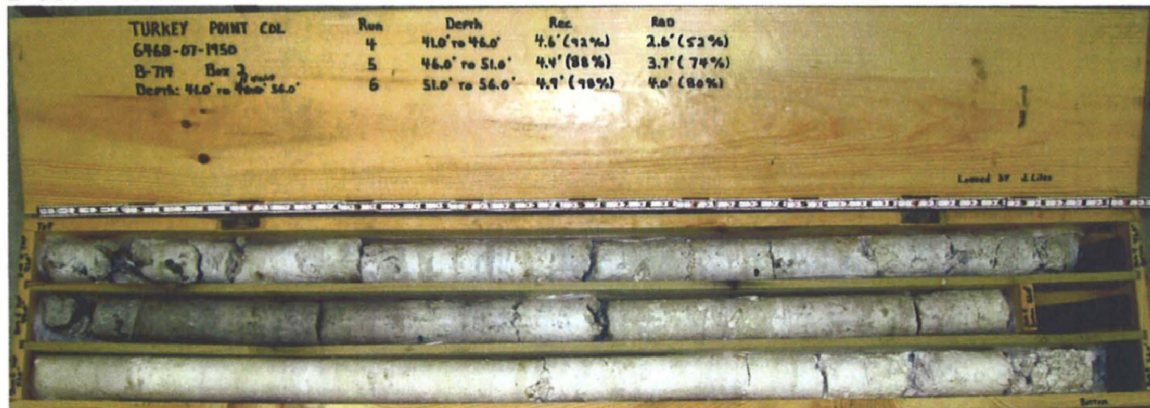
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: J. Liles
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger	
BORING NO.: B-714		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 876,021 US ft (NAD83/90)	
TOTAL DEPTH: 125.6 ft		CASING DEPTH: 4" to 27.7', 3" to 115.0'			HAMMER (ID): 140 lb. Auto (M06)
DATE STARTED: 4/16/08		COMPLETED: 4/17/08	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 (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
			0.31 0.35 0.46 0.59	80%	8%					Continued from previous page
-107.0	106.0	5.0	1.41 1.09 0.43 0.55 0.56	(4.3) 86%	(2.2) 44%	RUN-17				LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) (continued) 106.0ft: medium hard to moderately hard, friable to moderately indurated, mostly vugs, little shell molds and casts
-112.0	111.0	5.0	1.45 0.01 0.58 0.37 0.38	(1.6) 32%	(0.5) 10%	RUN-18				111.0ft: moderately hard, moderately indurated, trace vugs 112.0 to 113.0ft: rod drop
-117.0	116.0						(0.0) 0%	(NA)		-115.0 -117.0 POORLY GRADED SAND (SP), light gray (2.5Y7/2), very loose, wet, fine grained sand, strong HCl reaction, trace limestone fragments (Tamiami Formation) Coring Terminated at Elevation -117.0

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



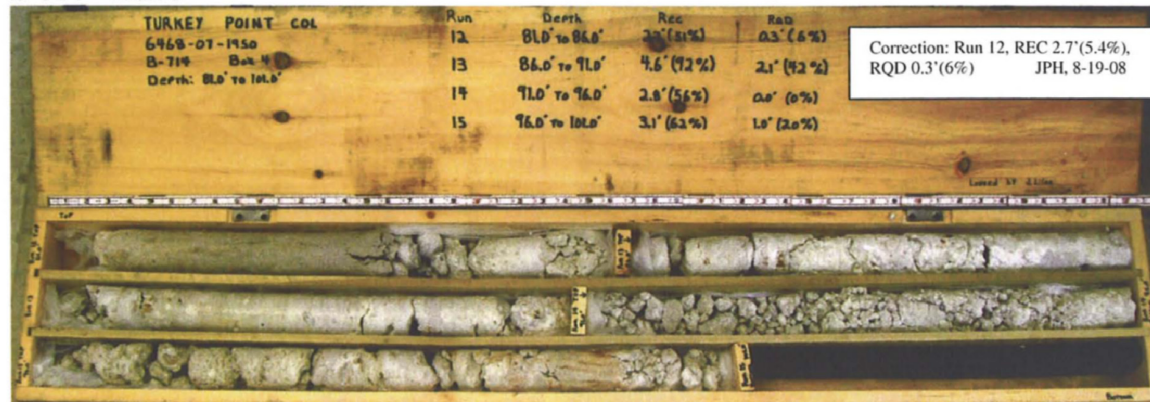
B-714 - Box 1



B-714 - Box 2



B-714 - Box 3



B-714 - Box 4



B-714 - Box 5



GEOTECHNICAL BORING LOG

Prepared By JJH Date 5-30-08

Checked By HJM Date 5-30-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: J. Liles								
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger		GROUND WATER (ft)								
BORING NO.: B-715		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA								
GROUND ELEV.: -0.9 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 875,909 US ft (NAD83/90)		24 HR. NA								
TOTAL DEPTH: 150.1 ft		BORING DIAMETER: 4" to 28.3', 3" to 150.1'		CASING DEPTH: 4" to 28.3', 3" to 120.0'		HAMMER (ID): 140 lb. Auto (M06)								
DATE STARTED: 4/8/08		COMPLETED: 4/10/08		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	
-0.9					Ground Surface								-0.9	0.0
-0.9	0.0	WOH	WOH	WOH							715-1			
-3.5	2.6										715-2A&B			
-5.9	5.0	WOH	2	5							715-3			
-8.4	7.5	10	7	7							715-4			
-10.9	10.0	18	27	11							715-5			
-13.3	12.4	4	4	4							715-6			
-15.8	14.9	6	6	10							715-7			
		4	6	18										
-22.6	21.7										715-8			
		8	12	14										
-27.7	26.8										715-9			
-29.2	28.3	13	40	50							RUN-1			
-31.2	30.3										RUN-2			
											715-CS-01			
-36.2	35.3										RUN-3			
-41.2	40.3										RUN-4			
											715-CS-03			
-46.2	45.3										RUN-5			
-51.2	50.3										RUN-6			
-56.2	55.3										RUN-7			
											715-CS-05			
-61.2	60.3										RUN-8			
-66.2	65.3										RUN-9			
-71.2	70.3										RUN-10			

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: J. Liles												
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger			GROUND WATER (ft)											
BORING NO.: B-715			DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core			0 HR. NA											
GROUND ELEV.: -0.9 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 875,909 US ft (NAD83/90)		24 HR. NA													
TOTAL DEPTH: 150.1 ft		BORING DIAMETER: 4" to 28.3', 3" to 150.1'		CASING DEPTH: 4" to 28.3', 3" to 120.0'		HAMMER (ID): 140 lb. Auto (M06)													
DATE STARTED: 4/8/08		COMPLETED: 4/10/08		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						
-75.7		Continued from previous page																	
-76.2	75.3																		
-81.2	80.3										RUN-11								LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-86.2	85.3										RUN-12								75.3ft: hard, indurated 80.3ft: moderately hard, moderately indurated
-91.2	90.3										RUN-13								85.3ft: hard, indurated
-96.2	95.3										715-CS-07								90.3ft: medium hard to hard, friable to indurated, trace vugs, few to little sand
-101.2	100.3										RUN-14								95.3ft: friable to moderately indurated
-106.2	105.3										RUN-15								100.3ft: moderately hard, moderately indurated, little shell molds and casts
-111.2	110.3										RUN-16								105.3ft: moderately hard to hard, moderately indurated to indurated, some vugs
-113.9	113.0										RUN-17								110.3ft: moderately hard, moderately indurated, little to some fine grained sand
-119.3	118.4	8	4	3							RUN-18								POORLY GRADED SAND with silt (SP-SM), light gray (5Y7/2), loose, wet, fine grained sand, strong HCl reaction, trace limestone fragments (Tamiami formation)
-129.0	128.1	3	4	8							715-10								118.4ft: Switch sampling method to SPT
-139.3	138.4	7	9	12							715-11								Silty SAND (SM), greenish gray (10Y6/1), medium dense, wet, fine to coarse grained sand, fine to coarse gravel
-149.5	148.6	5	8	10							715-12								
											715-13								

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: J. Liles					
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-715		DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core							
GROUND ELEV.: -0.9 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 875,909 US ft (NAD83/90)								
TOTAL DEPTH: 150.1 ft		BORING DIAMETER: 4" to 28.3', 3" to 150.1'		CASING DEPTH: 4" to 28.3', 3" to 120.0'		HAMMER (ID):140 lb. Auto (M06)						
DATE STARTED: 4/8/08		COMPLETED: 4/10/08		CORE SIZE: HQ3		BITS USED: 2 7/8" 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			
-150.5					Continued from previous page							
												148.6ft: fine grained sand Boring Terminated at Elevation -151.0 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: J. Liles	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger		GROUND WATER (ft)	
BORING NO.: B-715		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -0.9 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 875,909 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 150.1 ft		CASING DEPTH: 4" to 28.3', 3" to 120.0'				HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 4/8/08		COMPLETED: 4/10/08		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 @ 28.3 ft
-29.2	28.3	2.0	1:13 1:11	(2.0) 100%	(1.9) 95%	RUN-1	(19.0) 96%	(17.7) 90%		LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation) (continued)
-31.2	30.3	5.0	1:01 0:34 0:36 0:30 0:32	(4.9) 98%	(4.3) 86%	RUN-2  715-CS-01				28.3ft: moderately hard, moderately indurated, trace vugs, coralline 30.3ft: moderately hard to hard, moderately indurated to indurated, trace recrystallized calcite
-36.2	35.3	5.0	1:04 0:38 0:59 0:44 0:32	(4.6) 92%	(4.3) 86%	RUN-3				35.3ft: hard, indurated, little vugs
-41.2	40.3	5.0	0:41 1:26 1:15 1:13 1:13	(5.0) 100%	(4.7) 94%	RUN-4  715-CS-03				40.3ft: trace vugs
-46.2	45.3	5.0	1:23 1:27 1:32 1:27 1:11	(4.8) 96%	(4.8) 96%	RUN-5				45.3ft: white (2.5Y8/1) to 46.0ft then light gray (10YR7/1) to 48.0ft
-51.2	50.3	5.0	1:15 1:16 1:47 1:48 2:15	(4.9) 98%	(3.5) 70%	RUN-6	(49.8) 77%	(24.1) 37%		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)
-56.2	55.3	5.0	1:28 0:39 1:07 0:59 1:02	(4.9) 98%	(4.0) 80%	RUN-7  715-CS-05				50.3ft: moderately hard to hard, moderately indurated to indurated
-61.2	60.3	5.0	1:15 0:59 0:53 0:26 1:10	(4.5) 90%	(2.6) 52%	RUN-8				55.3ft: moderately hard, moderately indurated
-66.2	65.3	5.0	0:25 0:26 0:22 0:14 0:49	(2.6) 52%	(0.4) 8%	RUN-9				60.3ft: medium hard to hard, friable to indurated, trace sand, trace shell molds and casts
-71.2	70.3	5.0	0:44 1:14 1:58 1:58 0:25	(4.5) 90%	(1.9) 38%	RUN-10				65.3ft: interbedded sand, little vugs
-76.2	75.3	5.0	1:18 1:50 2:13 0:50 1:50	(3.0) 60%	(1.3) 26%	RUN-11				70.3ft: few vugs
-81.2	80.3	5.0	0:35 0:19 0:54 0:46 0:15	(1.8) 36%	(0.0) 0%	RUN-12				75.3ft: hard, indurated
-86.2	85.3	5.0	0:55 1:24 2:58 1:44 0:55	(4.7) 94%	(2.4) 48%	RUN-13  715-CS-07				80.3ft: moderately hard, moderately indurated
-91.2	90.3	5.0	0:40 0:58 0:44 0:43 1:37	(2.6) 52%	(1.2) 24%	RUN-14				85.3ft: hard, indurated
-96.2	95.3	5.0	1:12 0:50 0:36 0:53 1:07	(2.9) 58%	(1.2) 24%	RUN-15				90.3ft: medium hard to hard, friable to indurated, trace vugs, few to little sand
-101.2	100.3	5.0	1:18 0:46 0:55	(5.0) 100%	(2.3) 46%	RUN-16				95.3ft: friable to moderately indurated
										100.3ft: moderately hard, moderately indurated, little shell molds and casts

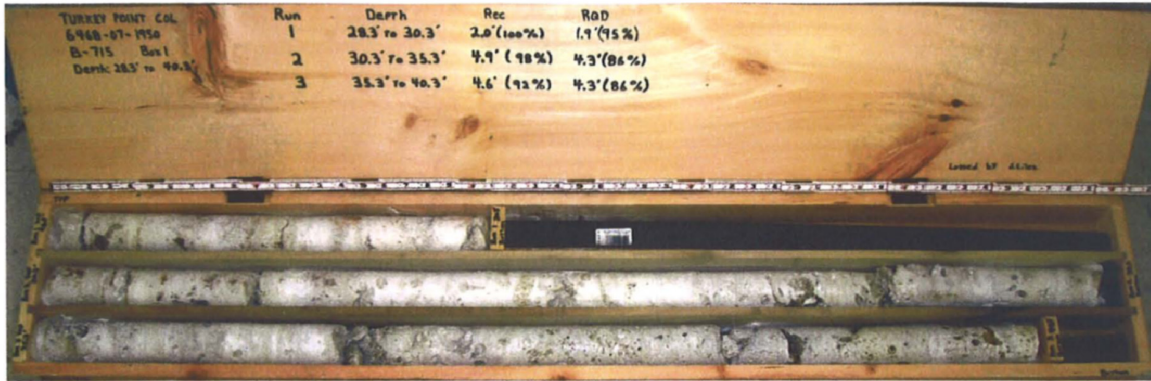
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



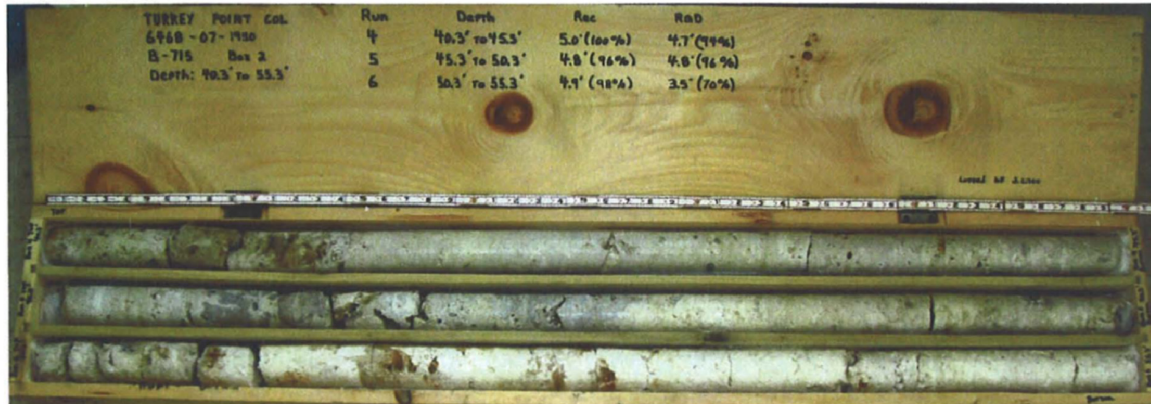
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: J. Liles
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger	
BORING NO.: B-715		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -0.9 ft (NAVD88)		NORTHING: 397,259 US ft (NAD83/90)		EASTING: 875,909 US ft (NAD83/90)	
TOTAL DEPTH: 150.1 ft		CASING DEPTH: 4" to 28.3', 3" to 120.0'			HAMMER (ID): 140 lb. Auto (M06)
DATE STARTED: 4/8/08		COMPLETED: 4/10/08		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) %		
			0.30 0.34							Continued from previous page
-106.2	105.3	5.0	0.42 0.34 0.43 0.56 0.40	(3.9) 78%	(0.4) 8%	RUN-17				LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs. strong HCl reaction (Lower Fort Thompson Formation) (continued) 105.3ft: moderately hard to hard, moderately indurated to indurated. some vugs
-111.2	110.3	5.0	0.41 1.23 0.50 0.34 0.23	(2.2) 44%	(0.6) 12%	RUN-18				110.3ft: moderately hard, moderately indurated, little to some fine grained sand
-116.2	115.3						(0.0) 0%	(NA)		-113.9 -116.2 POORLY GRADED SAND with silt (SP-SM), light gray (5Y7/2), loose, wet, fine grained sand, strong HCl reaction, trace limestone fragments (Tamiami formation) Coring Terminated at Elevation -116.2

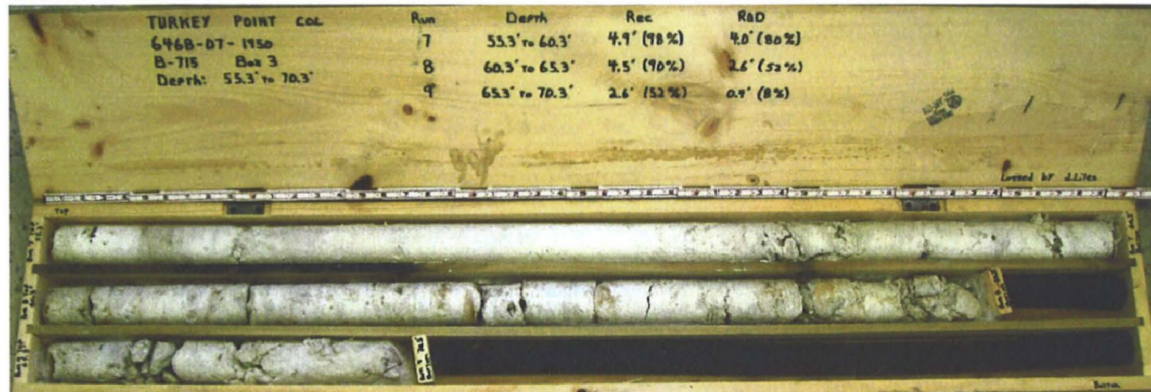
TURKEY POINT COL. CORE. TURKEY POINT GPI. TURKEY POINT COL. GDT. 5.30/08



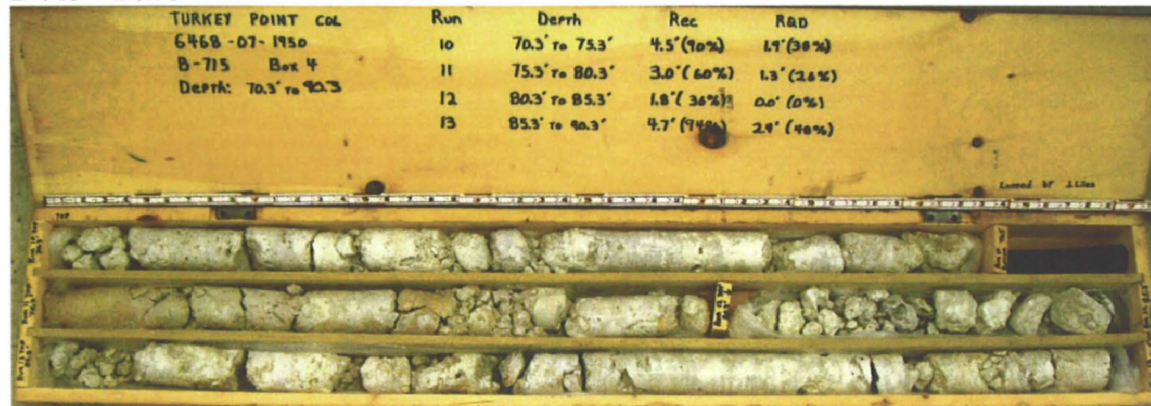
B-715 - Box 1



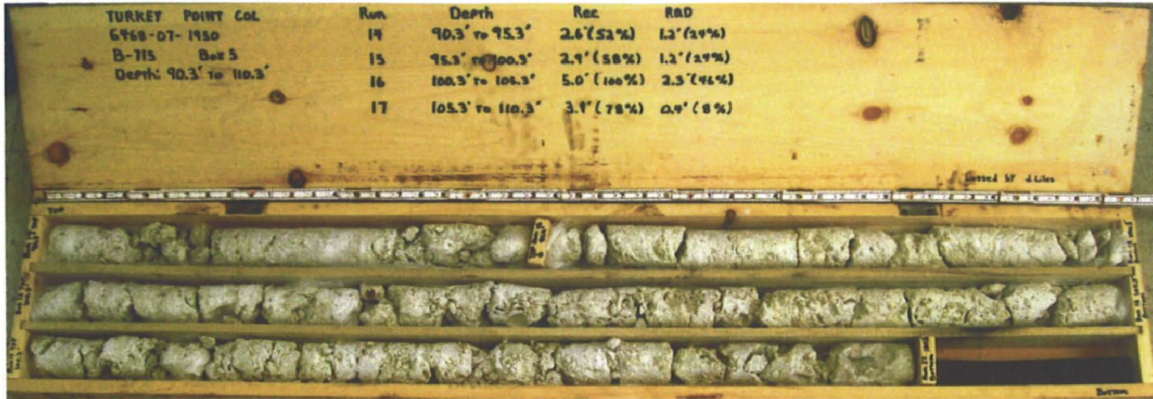
B-715 - Box 2



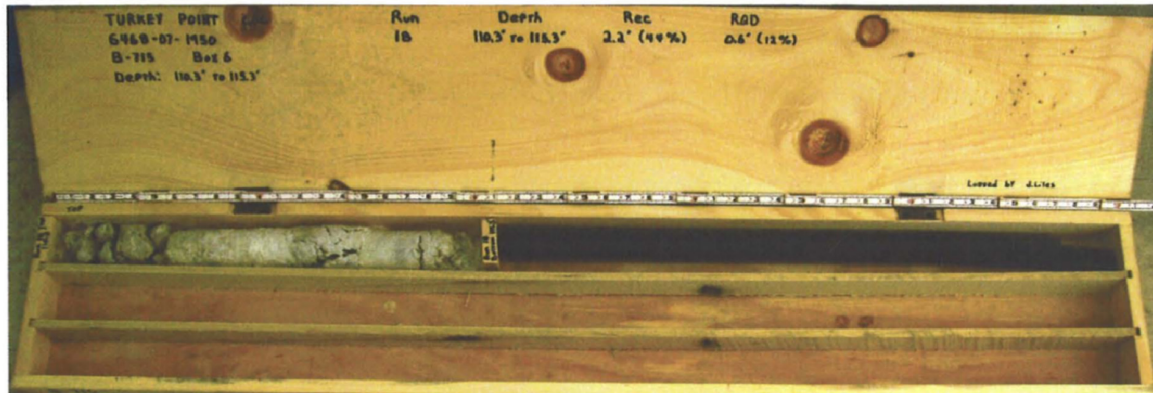
B-715 - Box 3



B-715 - Box 4



B-715 - Box 5



B-715 - Box 6



GEOTECHNICAL BORING LOG

Prepared By [Signature] Date 7-10-08

Checked By [Signature] Date 7-10-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa							
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-55 LC (RAL)			DRILLER: R. Banks/ J. Rosser			GROUND WATER (ft)						
BORING NO.: B-716			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR.	NA					
GROUND ELEV.: -1.1 ft (NAVD88)			NORTHING: 397,214 US ft (NAD83/90)			EASTING: 875,873 US ft (NAD83/90)			24 HR.	NA					
TOTAL DEPTH: 126.6 ft		BORING DIAMETER: 4" to 23.6', 3" to 126.6'			CASING DEPTH: 4" to 23.6', 3" to 115.2'			HAMMER (ID): 140 lb. Auto (MEC-02)							
DATE STARTED: 4/8/08		COMPLETED: 4/16/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Tricone							
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		
-1.1					Ground Surface										
-1.1	0.0	WOH	WOH	WOH							716-1		-1.1	0.0	MUCK, light brownish gray (10YR6/3), very soft, wet, mostly organic, trace shell fragments, strong HCl reaction
-3.7	2.6	3	7	9							716-2		-4.1	3.0	Field notes do not indicate that sample 716-2 was split into separate jars
-6.1	5.0	2	4	4							716-3				LIMESTONE, boundstone, white (10YR8/1), very soft, wet, strong HCl reaction, oolitic (Miami Formation)
-8.6	7.5	28	3	8							716-4				5.0ft: trace shell fragments
-11.1	10.0	3	5	6							716-5				
-13.6	12.5	50/0.3									716-6				12.5ft: hard
-16.1	15.0	7	15	32							716-7				15.0ft: moderately hard
-19.6	18.5	14	5	5							716-8				18.5ft: very soft
-24.6	23.5										716-9				23.5ft: hard
-26.3	25.2	10	50/0.4								RUN-1		-26.1	25.0	25.2ft: Switch sampling method to coring
-31.3	30.2										RUN-2				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, coralline, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation)
-36.3	35.2										RUN-3				30.2ft: white (10YR8/1), to light gray (10YR7/1), poor recovery may be due to open spaces and/or interconnected vugs
-41.3	40.2										RUN-4				35.2ft: trace vugs, recrystallized calcite
-46.3	45.2										RUN-5				40.2ft: white (10YR8/1)
-51.3	50.2										RUN-6		-48.4	47.3	45.2ft: few vugs, horizontal bedding plane at 47.3ft
-56.3	55.2										RUN-7				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)
-61.3	60.2										RUN-8				55.2ft: few vugs
-66.3	65.2										RUN-9				60.2ft: trace vugs, few to some shell molds and casts
-71.3	70.2										RUN-10				65.2ft: few shell molds

TURKEY POINT COL BORE, TURKEY POINT COL GDI 7/10/08



BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa						
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-55 LC (RAL)			DRILLER: R. Banks/ J. Rosser			GROUND WATER (ft)					
BORING NO.: B-716			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR.	NA				
GROUND ELEV.: -1.1 ft (NAVD88)			NORTHING: 397,214 US ft (NAD83/90)			EASTING: 875,873 US ft (NAD83/90)			24 HR.	NA				
TOTAL DEPTH: 126.6 ft		BORING DIAMETER: 4" to 23.6', 3" to 126.6'			CASING DEPTH: 4" to 23.6', 3" to 115.2'			HAMMER (ID):140 lb. Auto (MEC-02)						
DATE STARTED: 4/8/08		COMPLETED: 4/16/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Tricone						
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	
-75.9					Continued from previous page									
-76.3	75.2													
-80.4	79.3									RUN-11	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) (continued)			
-81.3	80.2									RUN-12				
										RUN-13		75.2ft: no vugs 80.2ft: trace to few shell molds and casts		
-86.3	85.2									RUN-14	85.2ft: little vugs			
-91.3	90.2									RUN-15				
-96.3	95.2									RUN-16	95.2ft: medium hard to moderately hard, moderately indurated, no vugs, some shell molds and casts			
-101.3	100.2									RUN-17				
-106.3	105.2									RUN-18	105.2ft: medium hard, moderately indurated, little vugs, mostly shell molds and casts			
-111.3	110.2									RUN-19	110.2ft: soft to medium hard, friable to moderately indurated			
-116.3	115.2	11	16	25						716-10	-114.1 Silty SAND (SM), white (10YR8/1), dense, moist, weak HCl reaction, fine grained sand, little fines (Tamiami Formation) 115.2ft: Switch sampling method to SPT	113.0		
-126.2	125.1									716-11	125.1ft: olive gray (5Y5/2), medium dense, trace shell fragments			
		22	14	8							-127.7 Boring Terminated at Elevation -127.7 ft		126.6	

TURKEY POINT COL BORE, TURKEY POINT.GPJ, TURKEY POINT COL.GDT 7/10/08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-716		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.1 ft (NAVD88)		NORTHING: 397,214 US ft (NAD83/90)		EASTING: 875,873 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 126.6 ft		CASING DEPTH: 4" to 23.6', 3" to 115.2'				HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/8/08		COMPLETED: 4/16/08		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. (%)	ROD (%)		REC. (%)	ROD (%)		
										Begin Coring @ 25.2 ft
-26.3	25.2	5.0	1:15 0:51 1:03 2:23 1:13	(3.1) 62%	(1.7) 34%	RUN-1	(16.5) 75%	(11.7) 53%		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, coralline, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation) (continued)
-31.3	30.2	5.0	0:26 0:21 0:18 0:12 0:21	(1.6) 32%	(0.0) 0%	RUN-2				30.2ft: white (10YR8/1), to light gray (10YR7/1), poor recovery may be due to open spaces and/or interconnected vugs
-36.3	35.2	5.0	0:29 0:27 0:26 0:32 0:51	(4.7) 94%	(3.3) 66%	RUN-3				35.2ft: trace vugs, recrystallized calcite
-41.3	40.2	5.0	0:40 0:33 0:32 0:37 0:46	(5.0) 100%	(5.0) 100%	RUN-4				40.2ft: white (10YR8/1)
-46.3	45.2	5.0	0:42 0:52 0:42 0:39 0:34	(5.0) 100%	(4.4) 88%	RUN-5				45.2ft: few vugs, horizontal bedding plane at 47.3ft
-51.3	50.2	5.0	0:47 0:40 0:38 0:39 0:40	(5.0) 100%	(4.0) 80%	RUN-6	(39.3) 60%	(20.6) 31%		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)
-56.3	55.2	5.0	0:49 0:26 0:36 0:35 0:38	(4.6) 92%	(3.0) 60%	RUN-7				55.2ft: few vugs
-61.3	60.2	5.0	0:31 0:30 0:28 0:28 0:38	(4.9) 98%	(4.8) 96%	RUN-8				60.2ft: trace vugs, few to some shell molds and casts
-66.3	65.2	5.0	0:31 0:34 0:32 0:25 0:16	(2.5) 50%	(2.2) 44%	RUN-9				65.2ft: few shell molds
-71.3	70.2	5.0	0:26 0:29 0:28 0:16 0:19	(1.6) 32%	(0.4) 8%	RUN-10				
-76.3	75.2	4.1	0:33 0:37 0:28 0:54	(2.0) 49%	(0.7) 17%	RUN-11				75.2ft: no vugs
-80.4	79.3	0.9	1:38/0.1	(0.8)	(0.8)	RUN-12				
-81.3	80.2	5.0	0:55/0.9	(0.8) 89%	(0.8) 89%	RUN-13				80.2ft: trace to few shell molds and casts
-86.3	85.2	5.0	0:35 0:32 0:22 0:18 0:21	(2.7) 54%	(0.4) 8%					
-91.3	90.2	5.0	0:24 0:36 0:38 0:26 0:23	(3.2) 64%	(0.5) 10%	RUN-14				85.2ft: little vugs
-96.3	95.2	5.0	0:30 0:21 0:18 0:16 0:21	(2.6) 52%	(1.1) 22%	RUN-15				
-101.3	100.2	5.0	0:28 0:31 0:25 0:16 0:20	(2.1) 42%	(0.0) 0%	RUN-16				95.2ft: medium hard to moderately hard, moderately indurated, no vugs, some shell molds and casts

TURKEY POINT COL CORE, TURKEY POINT COL GDT 7:10:08

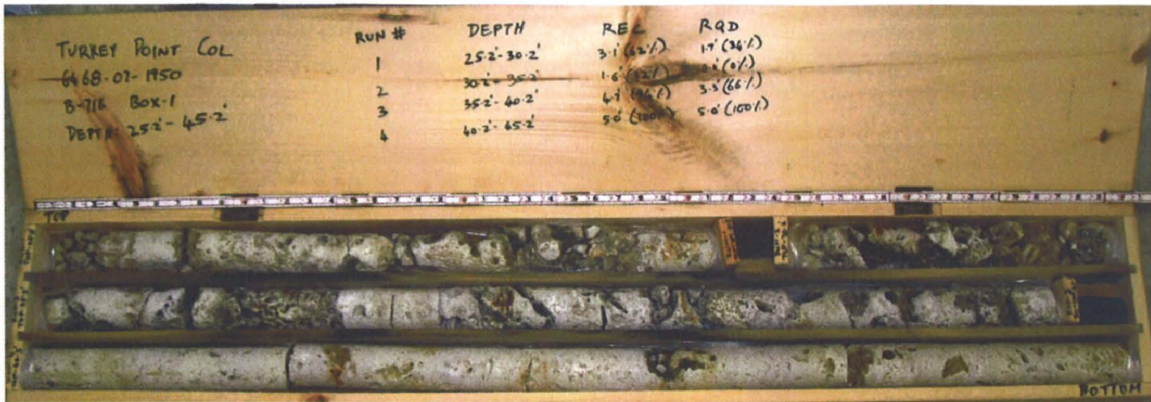




BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-716		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.1 ft (NAVD88)		NORTHING: 397,214 US ft (NAD83/90)		EASTING: 875,873 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 126.6 ft		CASING DEPTH: 4" to 23.6', 3" to 115.2'				HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/8/08		COMPLETED: 4/16/08		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
		5.0	0.23 0.24 0.21 0.20 0.21	(0.5) 10%	(0.0) 0%	RUN-17				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) (continued)
		5.0	0.28 0.27 0.13 0.18 0.16	(2.0) 40%	(0.0) 0%	RUN-18				105.2ft: medium hard, moderately indurated, little vugs, mostly shell molds and casts
		5.0	0.18 0.24 0.21 0.18	(1.9) 38%	(0.0) 0%	RUN-19				110.2ft: soft to medium hard, friable to moderately indurated
							(0.0) 0%	(NA)		-114.1 Silty SAND (SM), white (10YR8/1), dense, moist, weak HCl reaction, fine grained sand, little fines (Tamiami Formation) 113.0 -116.3 115.2
										Coring Terminated at Elevation -116.3

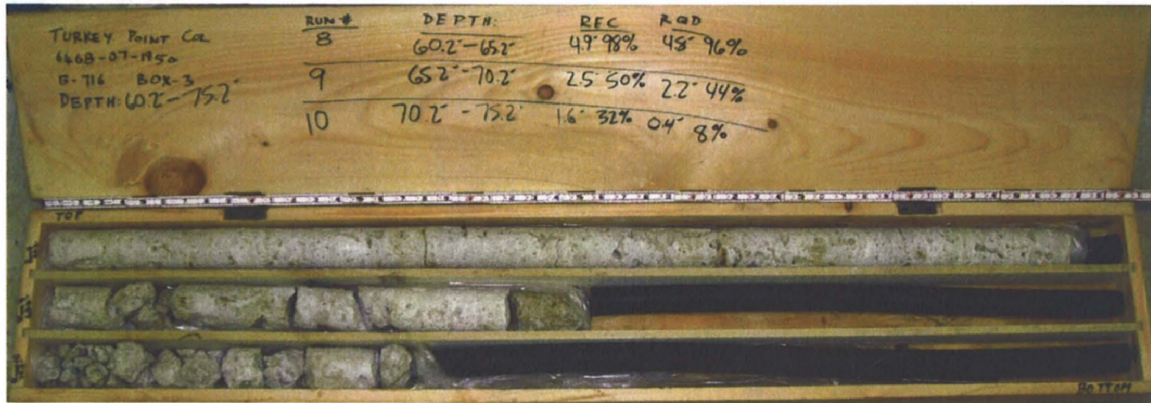
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7-10-08



B-716 - Box 1



B-716 - Box 2



B-716 - Box 3



B-716 - Box 4