

B-730 - Box 5



GEOTECHNICAL BORING LOG

Prepared By MM Date 7-10-08

Checked By MM 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-550 (ATL)		DRILLER: L. Carter/ J. Rosser		GROUND WATER (ft)									
BORING NO.: B-731		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA								
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,646 US ft (NAD83/90)		EASTING: 875,423 US ft (NAD83/90)		24 HR.	NA								
TOTAL DEPTH: 103.2 ft		BORING DIAMETER: 4" to 16.0', 3" to 103.2'		CASING DEPTH: 4" to 16.0'		HAMMER (ID): 140 lb. Auto (MEC-03)									
DATE STARTED: 5/1/08		COMPLETED: 5/3/08		CORE SIZE: HQ3		BITS USED: 2 15/16" 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		
-1.5					Ground Surface								0.0		
-1.5	0.0	WOH	WOH	WOH	●0						731-1		MUCK, light gray (10YR7/2), to very dark gray (10YR3/1), very soft, wet, mostly organic, strong HCl reaction	-1.5	0.0
-4.0	2.5	3	7	12							731-2		LIMESTONE, boundstone, white (2.5YR8/1), very soft, wet, trace fine grained sand, strong HCl reaction, oolitic (Miami Formation)	-4.0	2.5
-6.5	5.0	7	5	7	●12						731-3		7.5ft: white (10YR8/1)		
-9.0	7.5	10	7	5	●12						731-4		12.5ft: white (2.5YR8/1)		
-11.5	10.0	13	11	6	●17						731-5				
-14.0	12.5	11	11	7	●18						731-6				
-16.5	15.0										731-7		15.0ft: hard		
-17.5	16.0	14	50/0.3						64/0.8		RUN-1		16.0ft: Switch sampling method to coring		
-19.7	18.2										RUN-2		16.0ft: white (10YR8/1), to light gray (10YR7/1), to gray (10YR6/1), hard, indurated, trace fine grained sand, fossiliferous, locally interconnected vugs partially filled with cemented sand		
-24.7	23.2										RUN-3		18.2ft: soft to hard, friable to indurated		
-26.5											RUN-4		LIMESTONE, boundstone, white (10YR8/1), to gray (10YR6/1), to very pale brown (10YR7/3), soft to hard, moderately indurated to indurated, coralline, fossiliferous, few vugs, strong HCl reaction, recrystallized calcite (Upper Fort Thompson Formation)	-26.5	25.0
-29.7	28.2										RUN-5		28.2ft: hard, indurated		
-34.7	33.2										RUN-6				
-39.7	38.2										RUN-7		43.2ft: white (10YR8/1) to 46.2ft, then gray (10YR6/1) to 48.2ft, trace vugs		
-44.7	43.2										RUN-8				
-49.7	48.2										RUN-9		LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/2), hard, indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)	-49.7	48.2
-54.7	53.2										RUN-10		53.2ft: white (10YR8/1), moderately indurated to indurated, trace fine grained sand		
-59.7	58.2										RUN-11		58.2ft: moderately hard to hard		
-64.7	63.2										RUN-12		58.2 to 68.2ft: possible interbedded sand layers: based on recoveries and drilling rates		
-69.7	68.2										RUN-13		63.2ft: hard, indurated, no vugs		
-74.7	73.2										RUN-14		68.2ft: white (10YR8/1), to light gray (10YR7/2), few vugs		
													73.2ft: white (10YR8/1), trace vugs, trace fine grained sand		

TURKEY POINT COL BORE TURKEY POINT G.P.I. 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-550 (ATL)		DRILLER: L. Carter/ J. Rosser		GROUND WATER (ft)								
BORING NO.: B-731		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA								
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,646 US ft (NAD83/90)		EASTING: 875,423 US ft (NAD83/90)		24 HR. NA								
TOTAL DEPTH: 103.2 ft		BORING DIAMETER: 4" to 16.0', 3" to 103.2'		CASING DEPTH: 4" to 16.0'		HAMMER (ID): 140 lb. Auto (MEC-03)								
DATE STARTED: 5/1/08		COMPLETED: 5/3/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Tricone								
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	
-76.3					Continued from previous page									
-79.7	78.2										RUN-14	LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/2), hard, indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued) 78.2ft: shell molds and casts		
-84.7	83.2										RUN-15			
-89.7	88.2										RUN-16	88.2ft: moderately hard, moderately indurated		
-94.7	93.2										RUN-17	93.2ft: hard, indurated, possible interbedded sand layers; based on recovery and drilling rates		
-99.7	98.2										RUN-18	98.2ft: moderately hard to hard, moderately indurated to indurated, little shell molds and casts		
												-104.7	Boring Terminated at Elevation -104.7 ft	103.2

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-550 (ATL)		DRILLER: L. Carter/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-731		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,646 US ft (NAD83/90)		EASTING: 875,423 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 103.2 ft		CASING DEPTH: 4" to 16.0'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 5/1/08		COMPLETED: 5/3/08		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) %	ROD (ft) %		REC (ft) %	ROD (ft) %		
										Begin Coring @ 16.0 ft
-17.5	16.0	2.2	2:08	(2.2)	(1.6)	RUN-1	(3.7)	(1.6)		LIMESTONE, boundstone, white (2.5YR8/1), very soft, wet, trace fine grained sand, strong HCl reaction, oolitic (Miami Formation) (continued)
-19.7	18.2	5.0	0:12/0.2	100%	73%		41%	18%		
		5.0	1:14	(1.0)	(0.0)	RUN-2				16.0ft: white (10YR8/1), to light gray (10YR7/1), to gray (10YR6/1), hard, indurated, trace fine grained sand, fossiliferous, locally interconnected vugs partially filled with cemented sand
		5.0	0:38	20%	0%					
-24.7	23.2	5.0	0:31							18.2ft: soft to hard, friable to indurated
		5.0	0:29							
		5.0	0:29	(3.7)	(1.3)	RUN-3				LIMESTONE, boundstone, white (10YR8/1), to gray (10YR6/1), to very pale brown (10YR7/3), soft to hard, moderately indurated to indurated, coralline, fossiliferous, few vugs, strong HCl reaction, recrystallized calcite (Upper Fort Thompson Formation)
		5.0	1:17	74%	26%		(21.1)	(14.2)		
-29.7	28.2	5.0	1:47							
		5.0	2:14	(4.8)	(4.1)	RUN-4				28.2ft: hard, indurated
		5.0	2:16	96%	82%					
-34.7	33.2	5.0	1:04							
		5.0	1:01	(3.8)	(2.4)	RUN-5				43.2ft: white (10YR8/1) to 46.2ft, then gray (10YR6/1) to 48.2ft, trace vugs
		5.0	0:58	76%	48%					
-39.7	38.2	5.0	1:25							
		5.0	1:51	(4.3)	(1.8)	RUN-6				48.2ft: white (10YR8/1), moderately indurated to indurated, trace fine grained sand
		5.0	2:07	86%	36%					
-44.7	43.2	5.0	2:07							
		5.0	2:31	(5.0)	(4.6)	RUN-7				58.2ft: moderately hard to hard
		5.0	1:42	100%	92%					
-49.7	48.2	5.0	1:00							58.2 to 68.2ft: possible interbedded sand layers; based on recoveries and drilling rates
		5.0	1:14	(4.9)	(4.9)	RUN-8	(40.3)	(24.2)		
		5.0	1:42	98%	98%		73%	44%		
-54.7	53.2	5.0	1:54							63.2ft: hard, indurated, no vugs
		5.0	1:27	(4.6)	(3.5)	RUN-9				
		5.0	1:18	92%	70%					
-59.7	58.2	5.0	2:26							68.2ft: white (10YR8/1), to light gray (10YR7/2), few vugs
		5.0	2:39	(2.7)	(1.3)	RUN-10				
		5.0	2:18	54%	26%					
-64.7	63.2	5.0	2:06							73.2ft: white (10YR8/1), trace vugs, trace fine grained sand
		5.0	1:54	(1.3)	(0.0)	RUN-11				
		5.0	1:11	26%	0%					
-69.7	68.2	5.0	1:35							78.2ft: shell molds and casts
		5.0	1:47	(5.0)	(4.6)	RUN-12				
		5.0	0:41	100%	92%					
-74.7	73.2	5.0	4:15							88.2ft: moderately hard, moderately indurated
		5.0	3:05	(4.8)	(3.4)	RUN-13				
		5.0	3:28	96%	68%					
-79.7	78.2	5.0	2:11							
		5.0	2:14	(3.7)	(1.0)	RUN-14				
		5.0	1:32	74%	20%					
-84.7	83.2	5.0	0:46							
		5.0	1:27	(4.3)	(1.7)	RUN-15				
		5.0	0:52	86%	34%					
-89.7	88.2	5.0	2:20							
		5.0	0:32	(4.0)	(2.1)	RUN-16				
		5.0	2:05	80%	42%					
		5.0	1:23							

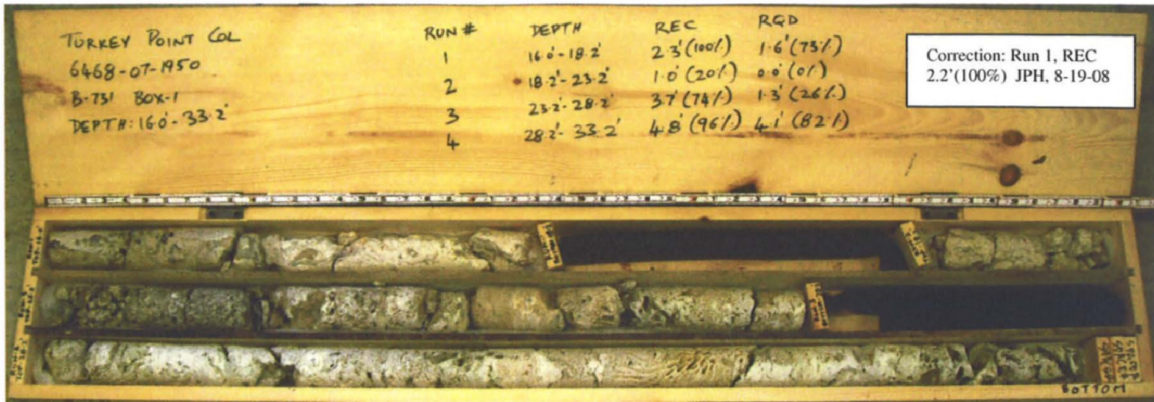
TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 7/10/08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-731		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,646 US ft (NAD83/90)		EASTING: 875,423 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 103.2 ft		CASING DEPTH: 4" to 16.0'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 5/1/08		COMPLETED: 5/3/08		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) %		
			0:47 0:51 0:54							Continued from previous page
-94.7	93.2	5.0	0:26 0:25 0:12 0:40 0:39	(1.4) 28%	(0.0) 0%	RUN-17				LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/2), hard, indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued) 93.2ft: hard, indurated, possible interbedded sand layers; based on recovery and drilling rates
-99.7	98.2	5.0	3:22 1:04 2:00 1:21 0:53	(3.6) 72%	(1.7) 34%	RUN-18				98.2ft: moderately hard to hard, moderately indurated to indurated, little shell molds and casts
-104.7	103.2									Coring Terminated at Elevation -104.7

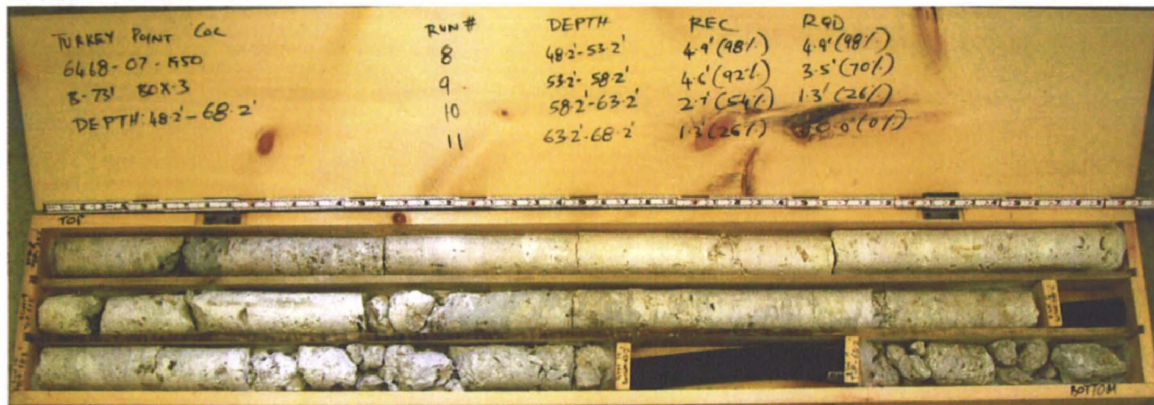
TURKEY POINT COL CORE TURKEY POINT COL GPI TURKEY POINT COL GDT 7/10/08



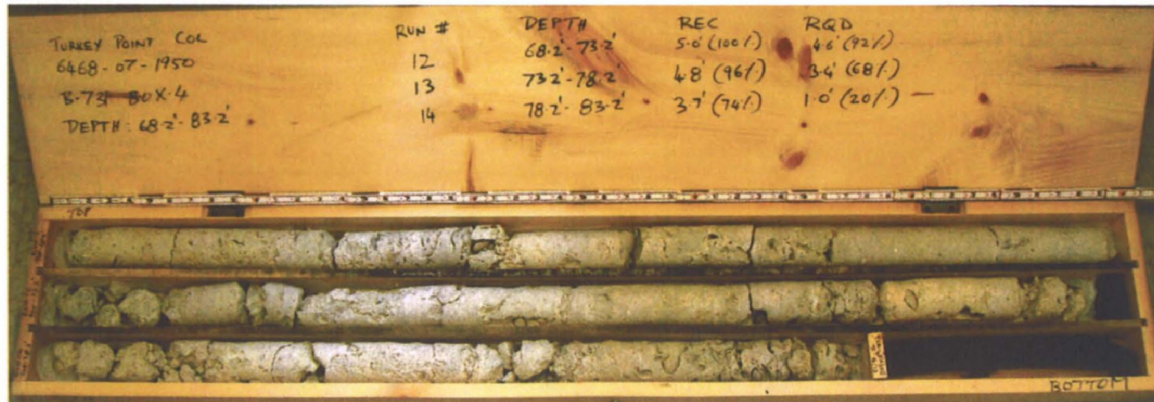
B-731 - Box 1



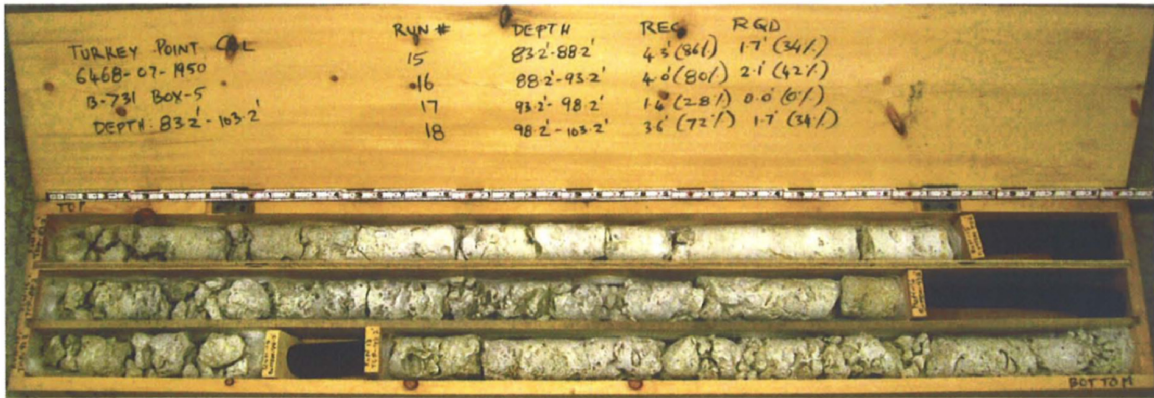
B-731 - Box 2



B-731 - Box 3



B-731 - Box 4



B-731 - Box 5



GEOTECHNICAL BORING LOG

Prepared By JPH Date 5-30-08

Checked By JPH Date 5-30-08

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-732		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,412 US ft (NAD83/90)		EASTING: 875,682 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 104.5 ft		BORING DIAMETER: 4" to 104.5'		CASING DEPTH: 4" to 24.5'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 5/14/08		COMPLETED: 5/18/08		CORE SIZE: HQ3		BITS USED: 3 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
-1.0					Ground Surface							0.0	
-1.0	0.0	WOH	WOH	WOH									
-3.5	2.5	WOH	WOH	2						732-1			MUCK, light gray (5Y7/2), to light brownish gray (10YR6/2), very soft, moist to wet, strong HCl reaction, some organics
-6.0	5.0	WOH	WOH							732-2A&B			2.5ft: very dark grayish brown (10YR3/2)
-8.5	7.5	7	9	6						732-3			LIMESTONE, boundstone, pale yellow (5Y8/2), very soft, friable, wet, strong HCl reaction, fragmented, oolitic (Miami Formation)
-11.0	10.0	40	14	5						732-4			
-13.5	12.5	3	5	6						732-5			10.0ft: white (5Y8/1)
-16.0	15.0	9	13	16						732-6			12.5ft: soft
-19.0	18.0	7	10	17						732-7			
-19.0	18.0	7	18	15						732-8			18.0ft: medium hard
-24.0	23.0												
-25.5	24.5	4	9	50/0.5						732-9			23.0ft: moderately hard
-30.5	29.5									RUN-1			24.5ft: Switch sampling method to coring
-35.5	34.5									RUN-2			LIMESTONE, boundstone, white (5Y8/1), hard, indurated, wet, strong HCl reaction, fossiliferous, coralline, some shell molds and casts, little vugs, recrystallized calcite (Upper Fort Thompson Formation)
-40.5	39.5									RUN-3			29.5ft: few vugs, loss of circulation
-45.5	44.5									RUN-4			35.0ft: return of circulation
-50.5	49.5									RUN-5			37.5ft: loss of circulation
-55.5	54.5									RUN-6			44.5ft: white (5Y8/1) to 46.5ft, then gray (5Y6/1) to 48.0ft
-60.5	59.5									RUN-7			48.0
-65.5	64.5									RUN-8			LIMESTONE, boundstone, very pale brown (10YR8/2), to white (5Y8/1), hard, indurated, few vugs, fossiliferous, few to little gastropod shell molds and casts (Lower Fort Thompson Formation)
-70.5	69.5									RUN-9			49.5ft: very pale brown (10YR8/2) to white (5Y8/2)
-75.5	74.5									RUN-10			54.5ft: white (5Y8/1)
													64.5 to 70.5ft: moderately hard, with possible interbedded sand layers
													70.5ft: hard, some sand

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: 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-732		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,412 US ft (NAD83/90)		EASTING: 875,682 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 104.5 ft		CASING DEPTH: 4" to 24.5'				HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 5/14/08		COMPLETED: 5/18/08		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 @ 24.5 ft
-25.5	24.5	5.0	2:54 2:50 5:13 6:38 10:21	(4.9) 98%	(1.8) 36%	RUN-1	(22.9) 97%	(16.7) 71%		-25.5 LIMESTONE, boundstone, white (5Y8/1), hard, indurated, wet, strong HCl reaction, fossiliferous, coralline, some shell molds and casts, little vugs, recrystallized calcite (Upper Fort Thompson Formation) 24.5
-30.5	29.5	5.0	3:21 3:43 3:19 2:55 3:15	(5.0) 100%	(4.6) 92%	RUN-2				29.5ft: few vugs, loss of circulation
-35.5	34.5	5.0	2:19 2:31 2:15 1:43 3:22	(5.0) 100%	(3.2) 64%	RUN-3				35.0ft: return of circulation 37.5ft: loss of circulation
-40.5	39.5	5.0	3:10 2:57 2:25 2:37 2:55	(4.5) 90%	(4.5) 90%	RUN-4				
-45.5	44.5	5.0	1:53 1:01 1:37 2:25 2:25	(5.0) 100%	(3.8) 76%	RUN-5				44.5ft: white (5Y8/1) to 46.5ft, then gray (5Y6/1) to 48.0ft
-50.5	49.5	5.0	2:21 1:50 1:59 1:45 2:27	(5.0) 100%	(3.5) 70%	RUN-6	(30.5) 69%	(9.0) 20%		-49.0 LIMESTONE, boundstone, very pale brown (10YR8/2), to white (5Y8/1), hard, indurated, few vugs, fossiliferous, few to little gastropod shell molds and casts (Lower Fort Thompson Formation) 48.0 49.5ft: very pale brown (10YR8/2) to white (5Y8/2)
-55.5	54.5	5.0	1:45 1:48 1:44 3:41 3:49	(3.0) 60%	(0.0) 0%	RUN-7				54.5ft: white (5Y8/1)
-60.5	59.5	5.0	1:27 1:05 1:11 1:14 1:51	(4.0) 80%	(2.5) 50%	RUN-8				
-65.5	64.5	5.0	0:23 0:23 1:45 0:55 0:11	(1.4) 28%	(0.0) 0%	RUN-9				64.5 to 70.5ft: moderately hard, with possible interbedded sand layers
-70.5	69.5	5.0	1:35 1:33 1:01 1:56 1:58	(2.8) 56%	(0.6) 12%	RUN-10				70.5ft: hard, some sand
-75.5	74.5	5.0	0:40 0:49 1:21 1:45 1:28	(3.9) 78%	(0.9) 18%	RUN-11				74.5ft: moderately hard
-80.5	79.5	5.0	1:05 1:04 0:58 0:28 0:12	(2.3) 46%	(0.0) 0%	RUN-12				
-85.5	84.5	5.0	1:21 1:35 1:33 2:25 2:59	(4.1) 82%	(0.3) 6%	RUN-13				84.5ft: hard
-90.5	89.5	5.0	1:12 0:54 0:49 0:28 0:13	(3.1) 62%	(0.0) 0%	RUN-14				
-95.5	94.5	5.0	0:15 0:12 0:17 1:18 1:11	(2.8) 56%	(0.0) 0%	RUN-15	(1.4) 25%	(0.0) 0%		-93.0 92.0ft: no recovery, possible sand (SM) based on recovery and drilling rates 92.0 -98.5 97.5
-100.5	99.5	5.0					(5.5) (0.0)			

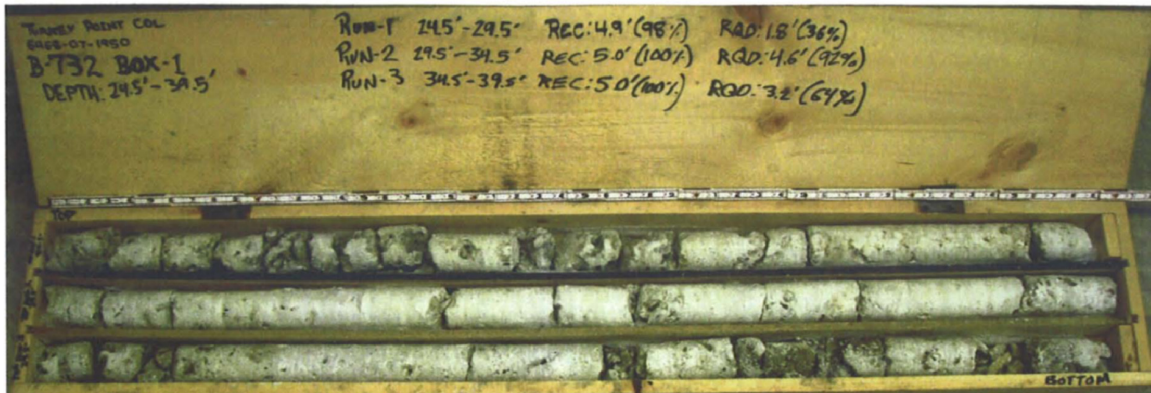
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5:30'08



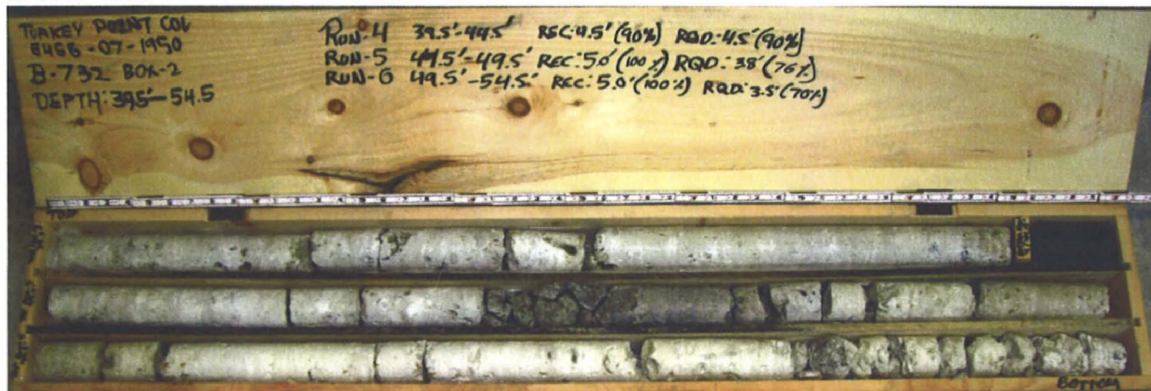
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: R. Clark
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-750 (Miller)		DRILLER: G.Bilbrey/P.McKorkle/J.Tucker	
BORING NO.: B-732		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,412 US ft (NAD83/90)		EASTING: 875,682 US ft (NAD83/90)	
TOTAL DEPTH: 104.5 ft		CASING DEPTH: 4" to 24.5'			HAMMER (ID): 140 lb. Auto (07)
DATE STARTED: 5/14/08		COMPLETED: 5/18/08	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
-105.5	104.5	5.0	0.32 0.42 0.36 0.23 0.42	(3.5) 70%	(0.0) 0%	RUN-16	79%	0%		LIMESTONE, boundstone, white (5Y8/1), hard, indurated, wet, strong HCl reaction, fossiliferous, mostly shell molds and casts (continued)
										Coring Terminated at Elevation -105.5

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B-732- Box 1



B-732 - Box 2



B-732 - Box 3



B-732 - Box 4



B-732 - Box 5



GEOTECHNICAL BORING LOG

Prepared By J.P.P. Date 5-30-08

Checked By J.P.P. Date 5-30-08

SHEET 1 OF 2

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		BORING DIAMETER: 4" to 28.0', 3" to 103.5'		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		BITS USED: 3" 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	
-1.0					Ground Surface									0.0	
-1.0	0.0	WOH	WOH	WOH	0						733-1			MUCK - no recovery	0.0
-3.5	2.5	9	9	12							733-2			LIMESTONE, boundstone, white (10YR8/1), to gray (10YR6/1), soft, wet, trace sand, oolitic, strong HCl reaction (Miami Formation)	2.5
-6.0	5.0	9	8	5							733-3			5.0ft: white (10YR8/1), very soft	
-8.5	7.5	8	4	3							733-4			7.5ft: white (10YR8/1), to light gray (10YR7/2), fossiliferous	
-11.0	10.0	3	7	3							733-5			10.0ft: white (2.5Y8/1), to light gray (2.5Y7/1), trace vugs	
-13.5	12.5	10	14	8							733-6			12.5ft: white (10YR8/1), to very pale brown (10YR8/2), soft	
-16.0	15.0	2	3	4							733-7			15.0ft: white (10YR8/10), soft	
-19.4	18.4	7	5	7							733-8				
-24.4	23.4	4	2	6							733-9				
-29.4	28.4	15	44	50/0.5							733-10			LIMESTONE, boundstone, pale yellow (2.5Y8/2), hard, wet, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation)	26.0
-30.9	29.9										RUN-1			29.9ft: Switch sampling method to coring	
-34.5	33.5										RUN-2			29.9ft: white (10YR8/1), indurated, some vugs, recrystallized calcite	
-39.5	38.5										RUN-3			32.0ft: loss of circulation	
-44.5	43.5										RUN-4			33.5ft: little vugs	
-49.5	48.5										RUN-5			38.5ft: white (10YR8/1), to light gray (10YR7/1), few vugs	
-54.5	53.5										RUN-6			43.5ft: white (10YR8/1), to light gray (10YR7/2), moderately hard, moderately indurated, trace sand	
-59.5	58.5										RUN-7			48.5ft: white (10YR8/1), to light gray (10YR7/2), to white (10YR8/1), hard, indurated, fossiliferous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)	48.5
-64.5	63.5										RUN-8			53.5ft: white (10YR8/1)	
-69.5	68.5										RUN-9			58.5ft: mottled light greenish gray (10Y7/1), moderately hard, moderately indurated	
-74.5	73.5										RUN-10			63.5ft: light gray (10YR7/1)	
														66.0 to 93.5ft: possible interbedded sand; based on drilling rates and recovery	
														68.5ft: white (10YR8/1)	

TURKEY POINT COL BORE TURKEY POINT GP1 TURKEY POINT COL GDI 5-30-08

