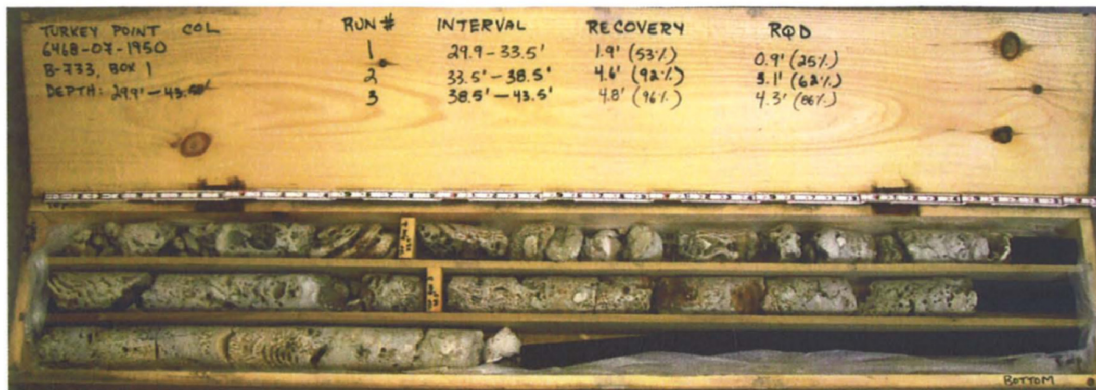




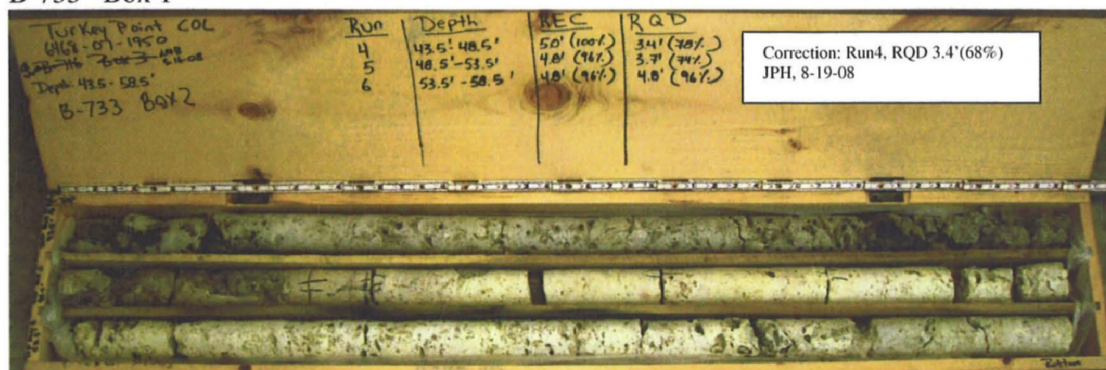
SHEET 1 OF 1

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: L. Bisson			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (ATL)				DRILLER: L. Carter/ J. Landeros				GROUND WATER (ft)	
BORING NO.: B-733				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.0 ft (NAVD88)				NORTHING: 396,118 US ft (NAD83/90)				EASTING: 875,898 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 103.5 ft				CASING DEPTH: 4" to 28.0'						HAMMER (ID): 140 lb. Auto (MEC-03)			
DATE STARTED: 5/15/08		COMPLETED: 5/17/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %		ROD (ft) %	SAMP. NO.	STRATA REC. (ft) %		ROD (ft) %	L O G	DESCRIPTION AND REMARKS	
												Begin Coring @ 29.9 ft	
-30.9	29.9	3.6	0.08/0.6 0.43 0.38 0.47	(1.9) 53%	(0.9) 25%		RUN-1	(16.3) 88%	(11.7) 63%			LIMESTONE, boundstone, pale yellow (2.5Y8/2), hard, wet, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation) (continued)	
-34.5	33.5											29.9ft: white (10YR8/1), indurated, some vugs, recrystallized calcite	
		5.0	0.39 0.39 1.27 1.09 1.24	(4.6) 92%	(3.1) 62%		RUN-2					32.0ft: loss of circulation 33.5ft: little vugs	
-39.5	38.5												
		5.0	0.56 0.38 0.39 0.51 1.16	(4.8) 96%	(4.3) 86%		RUN-3					38.5ft: white (10YR8/1), to light gray (10YR7/1), few vugs	
-44.5	43.5												
		5.0	1.17 0.47 0.32 0.30 0.19	(5.0) 100%	(3.4) 68%		RUN-4					43.5ft: white (10YR8/1), to light gray (10YR7/2), moderately hard, moderately indurated, trace sand	
-49.5	48.5												
		5.0	0.48 1.03 0.40 0.32 0.27	(4.8) 96%	(3.7) 74%		RUN-5	(34.6) 63%	(18.2) 33%			LIMESTONE, boundstone, light gray (10YR7/2), to white (10YR8/1), hard, indurated, fossiliferous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)	
-54.5	53.5												
		5.0	0.50 0.50 0.51 0.33 0.26	(4.8) 96%	(4.8) 96%		RUN-6					53.5ft: white (10YR8/1)	
-59.5	58.5												
		5.0	0.31 0.20 0.49 0.42 0.41	(4.1) 82%	(2.2) 44%		RUN-7					58.5ft: mottled light greenish gray (10Y7/1), moderately hard, moderately indurated	
-64.5	63.5												
		5.0	0.36 0.50 0.24 0.12 0.14	(2.4) 48%	(0.0) 0%		RUN-8					63.5ft: light gray (10YR7/1) 66.0 to 93.5ft: possible interbedded sand; based on drilling rates and recovery	
-69.5	68.5												
		5.0	0.10 0.38 0.33 0.42 0.39	(4.0) 80%	(1.6) 32%		RUN-9					68.5ft: white (10YR8/1)	
-74.5	73.5												
		5.0	0.22 0.08 0.08 0.16 0.25	(1.5) 30%	(0.0) 0%		RUN-10						
-79.5	78.5												
		5.0	0.39 0.25 0.12 0.34 0.20	(3.3) 66%	(0.8) 16%		RUN-11					78.5ft: hard	
-84.5	83.5												
		5.0	0.11 0.31 0.25 0.44 0.55	(0.7) 14%	(0.0) 0%		RUN-12					83.5ft: moderately hard	
-89.5	88.5												
		5.0	0.38 0.29 0.16 0.15 0.12	(1.5) 30%	(0.4) 8%		RUN-13					88.5ft: hard, indurated	
-94.5	93.5												
		5.0	0.30 0.26 0.24 0.30 0.28	(2.9) 58%	(0.9) 18%		RUN-14					93.5ft: moderately hard, moderately indurated	
-99.5	98.5												
		5.0	0.24 0.22 0.22 0.25 0.21	(4.6) 92%	(3.8) 76%		RUN-15						
-104.5	103.5											Coring Terminated at Elevation -104.5	

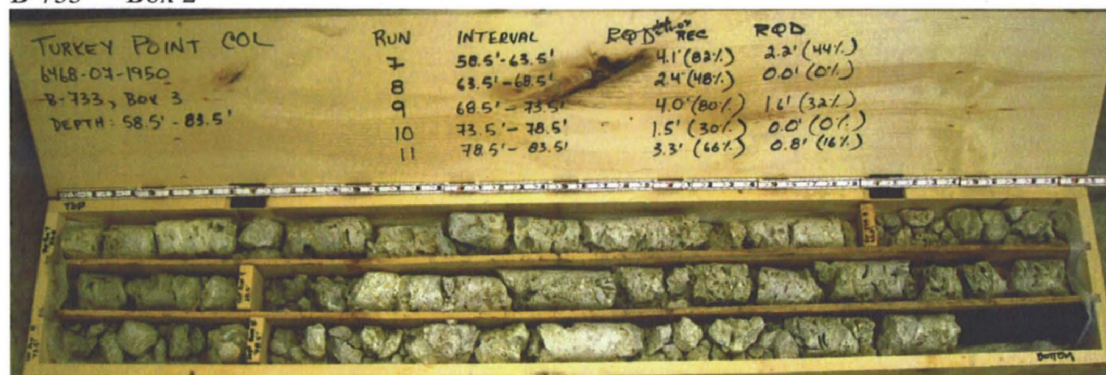
TURKEY POINT COL CORE TURKEY POINT COL GDT 5/30/08



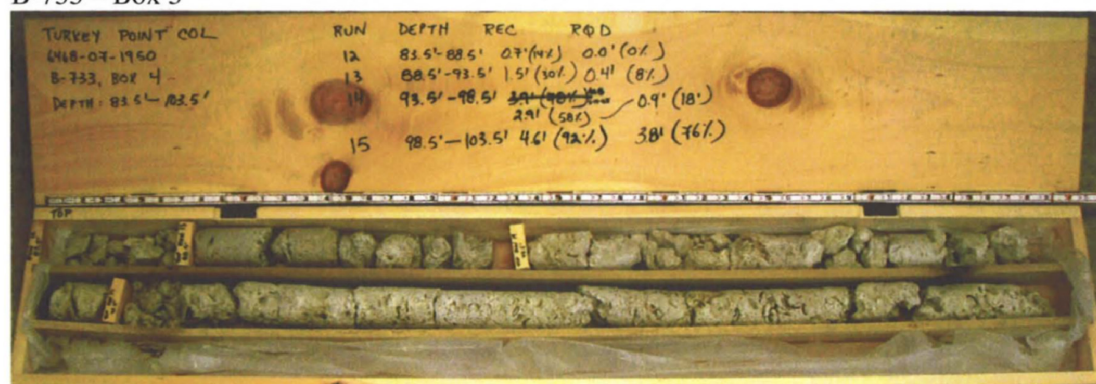
B-733- Box 1



B-733 - Box 2



B-733 - Box 3



B-733 - Box 4



GEOTECHNICAL BORING LOG

Prepared By JP Date 5-30-08

Checked By JP Date 5-20-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade			GEOLOGIST: S. Lehman				
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-45C (RAL)					DRILLER: D. Rhodes/ K. Guy					GROUND WATER (ft)		
BORING NO.: B-734					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -0.6 ft (NAVD88)					NORTHING: 395,833 US ft (NAD83/90)					EASTING: 875,546 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 130.0 ft					BORING DIAMETER: 4" to 39.6', 3" to 130.0'					CASING DEPTH: 4" to 39.6', 3" to 113.5'					HAMMER (ID): 140 lb. Auto (MEC-12)		
DATE STARTED: 3/26/08					COMPLETED: 4/4/08					CORE SIZE: HQ3					BITS USED: 2 7/8" Roller Cone		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100							
-0.6					Ground Surface												
-0.6	0.0	WOH	WOH	WOH	0						734-1					-0.6	0.0
-3.1	2.5										734-2A&B					-2.6	2.0
-5.8	5.2	12	9	7							734-3					-4.6	4.0
-8.2	7.6	3	6	6							734-4					MUCK, black, (2.5Y3/1), to grayish brown (2.5Y5/2), very soft, wet, no to strong HCl reaction	
-10.8	10.2	2	5	6							734-5					LIMESTONE, boundstone, white (2.5Y8/1), very soft, moderately indurated, mostly oolitic (Miami Formation)	
-13.3	12.7	10	17	10							734-6					12.7ft: soft, indurated	
-15.8	15.2	3	8	14							734-7						
-19.1	18.5	16	28	21							734-8					18.5ft: moderately hard	
-24.1	23.5	10	7	4							734-9					23.5ft: very soft 23.5ft: loss of circulation	
-29.1	28.5	26	50/0.5								734-10					27.0	
-30.1	29.5										RUN-1					LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated (Upper Fort Thompson Formation)	
-32.2	31.6										RUN-2					29.5ft: Switch sampling method to coring 29.5ft: few vugs, coralline	
-37.2	36.6										RUN-3					36.6ft: trace recrystallized calcite 37.5 to 39.5ft: possible interbedded sand layers; based on recovery and drilling rates	
-42.2	41.6										RUN-4						
-47.2	46.6										RUN-5					46.6ft: light gray (10YR7/1)	
-52.2	51.6										RUN-6					49.0	
-57.2	56.6										RUN-7					LIMESTONE, boundstone, white (2.5YR8/1), hard, indurated, trace recrystallized calcite (Lower Fort Thompson Formation)	
-62.2	61.6										RUN-8					51.6ft: moderately hard to hard, moderately indurated to indurated, trace vugs	
-67.2	66.6	4	10	11							RUN-9					56.6ft: hard, indurated	
-68.7	68.1										734-11					61.6ft: little sand Below 64.0ft: possible interbedded sand layers; based on recovery and drilling rates	
-72.2	71.6										RUN-10					66.6ft: Switch sampling method to SPT 66.6ft: soft 68.1ft: Switch sampling method to coring 68.1ft: hard, indurated	

TURKEY POINT COL BORE TURKEY POINT GP TURKEY POINT COL GDT 5/30/08