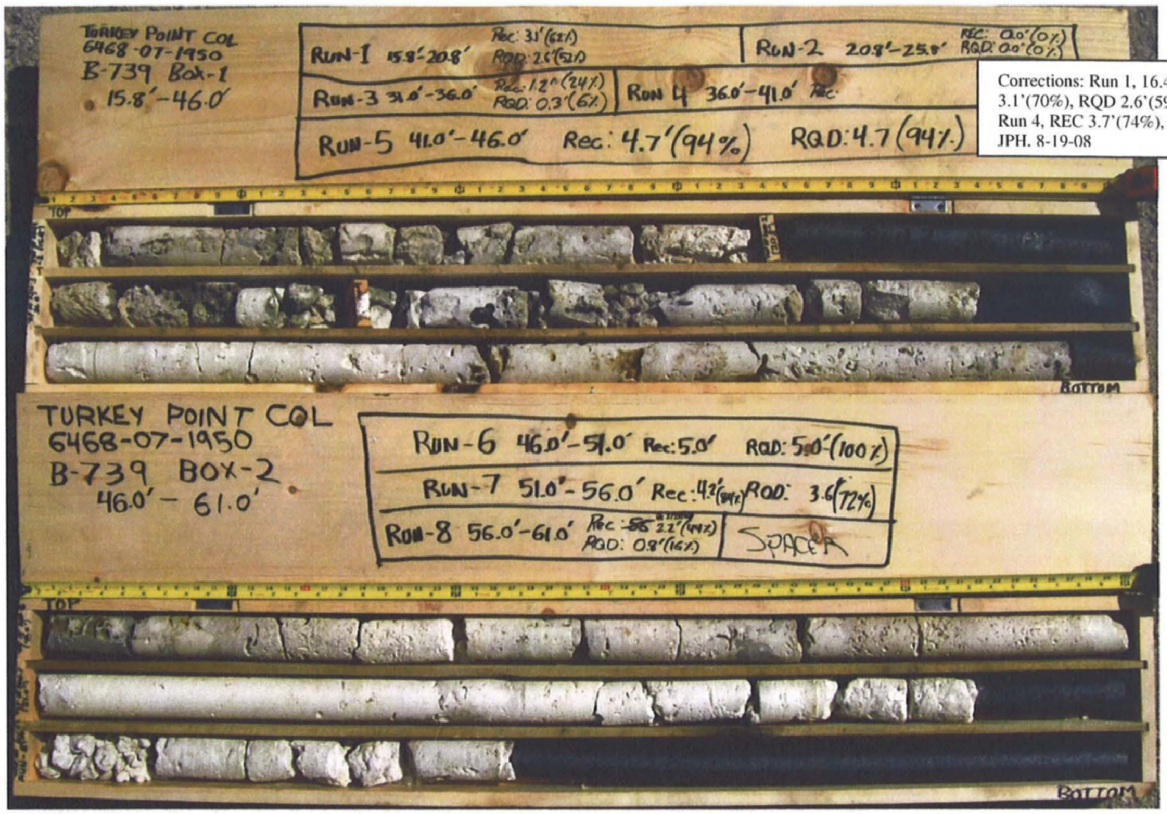
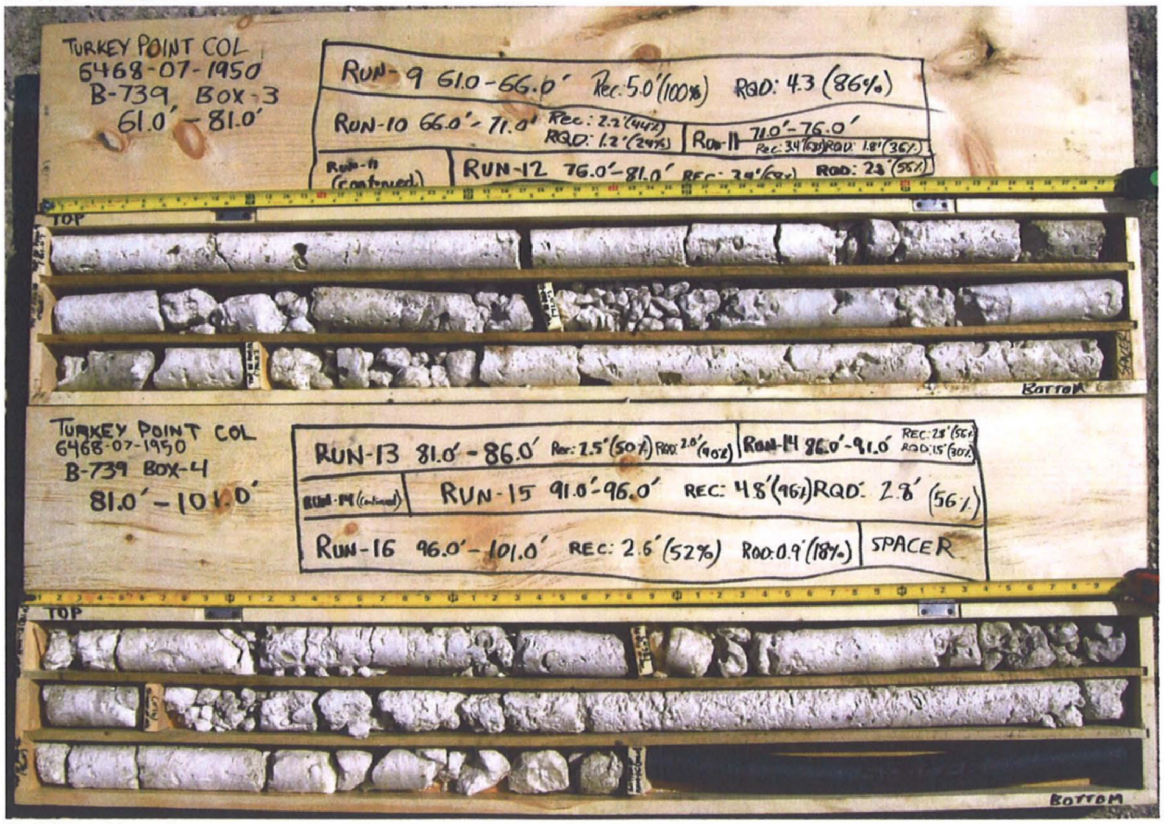


Corrections: Run 1, 16.4-20.8', REC 3.1'(70%), RQD 2.6'(59%)
Run 4, REC 3.7'(74%), RQD 1.4'(28%)
JPH, 8-19-08

B-739 – Box 1

B-739 – Box 2



B-739 – Box 3

B-739 – Box 4

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPH Date 8-14-08
Checked By SJL Date 8/19/08

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 Marsh Buggy	DRILLER: D. White/ R. Hall	GROUND WATER (ft)
BORING NO.: B-802	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 398,817 US ft (NAD83/90)	EASTING: 876,266 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 128.5 ft	BORING DIAMETER: 6" to 35.0', 4" to 128.5'	CASING DEPTH: 6" to 35.0'	HAMMER (ID):140 lb. Auto (893)
DATE STARTED: 4/23/08	COMPLETED: 5/2/08	CORE SIZE: PQ3	BITS USED: 3 15/16" Tricone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-1.5					Ground Surface				-1.5 / 0.0
-1.5 / -4.0	0.0 / 2.5	WOH	WOH	WOH	WOH 0	802-1			Sandy FAT CLAY (CH), light gray (10YR7/2), very soft, wet, some fine grained sand, trace organics, strong HCl reaction (-3.5 / 2.0; -4.8 / 3.3)
-6.5	5.0	WOH	5	16	21	802-A&B			MUCK, dark gray (10YR4/1), to light gray (10YR7/2), very soft, moist, fine grained sand, trace shell fragments, strong HCl reaction
-9.0	7.5	9	9	7	16	802-3			SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA
-11.5	10.0	5	19	12	31	802-4			LIMESTONE, boundstone, white (10YR8/1), soft, wet, fossiliferous, strong HCl reaction, oolitic (Miami Formation)
-14.0	12.5	5	10	11	21	802-5			5.0ft: white (7/5YR8/1), very soft; 7.5ft: white (10YR8/1), medium hard
-16.5	15.0	8	10	22	32	802-6			10.0ft: soft; 12.5ft: medium hard
-21.5	20.0	6	10	14	24	802-7			15.0ft: soft
-26.0	24.5	18	28	50/0.4	78/0.9	802-8			20.0ft: hard
-30.7	29.2	6	6	10	16	802-9			24.5ft: very soft; -28.5 / 27.0
-35.7	34.2	5	6	14	20	802-10			LIMESTONE, boundstone, white (10YR8/1), soft, wet, fossiliferous, strong HCl reaction (Fort Thompson Formation)
-38.5	37.0	33	38	50/0.3	88/0.8	802-11			34.2ft: hard
-43.5	42.0					RUN-1			37.0ft: Alternate sampling method between coring and SPT
-45.0	43.5	4	11	38	49	802-12			42.0ft: moderately hard
-48.5	47.0					RUN-2			43.5ft: medium hard, moderately indurated, few vugs, fossiliferous, recrystallized calcite, little sand
-50.0	48.5	7	9	23	32	802-13			47.0ft: friable
-53.5	52.0					RUN-3			
-55.0	53.5	7	17	47	64	802-14			52.0ft: hard
-58.5	57.0					RUN-4			
-60.0	58.5	5	11	7	18	802-15			57.0ft: very soft
-63.5	62.0					RUN-5			58.5ft: moderately hard to medium hard, moderately indurated, little vugs, trace fine grained sand
-68.5	67.0					RUN-6			62.0ft: medium hard, few vugs
-73.5	72.0					RUN-7			67.0ft: little vugs, coralline
						RUN-8			72.0ft: trace vugs

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/14/08

MACTEC

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 Marsh Buggy	DRILLER: D. White/ R. Hall	GROUND WATER (ft)
BORING NO.: B-802	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 398,817 US ft (NAD83/90)	EASTING: 876,266 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 128.5 ft	BORING DIAMETER: 6" to 35.0', 4" to 128.5'	CASING DEPTH: 6" to 35.0'	HAMMER (ID):140 lb. Auto (893)
DATE STARTED: 4/23/08	COMPLETED: 5/2/08	CORE SIZE: PQ3	BITS USED: 3 15/16" Tricone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-76.3					Continued from previous page				
-78.5	77.0								LIMESTONE, boundstone, white (10YR8/1), soft, wet, fossiliferous, strong HCl reaction (Fort Thompson Formation) *(continued)*
-80.0	78.5	9	42	49	91	802-16 RUN-9			77.0ft: hard 78.5ft: medium hard
-83.5	82.0								
-84.0	82.5	50/0.5			50/0.5	802-17 RUN-10			82.0ft: hard 82.5 to 83.0ft: silty sand, then LIMESTONE, medium hard, few vugs
-88.5	87.0					RUN-11			87.0 to 89.0ft: silty sand, greenish gray (5BG6/1), dense wet calcareous, trace shell fragments, strong HCl reaction
-93.5	92.0					RUN-12			89.0ft: LIMESTONE, boundstone, white (10YR8/1), medium hard, interbedded soft friable limestone, moderately indurated, trace vugs, fossiliferous, strong HCl reaction
-98.5	97.0								
-100.0	98.5	16	28	42	70	802-18A&B RUN-13			97.0ft: hard, little fine grained sand 98.5ft: soft to moderately hard, friable to moderately indurated, trace vugs, little shell casts, trace fine grained sand
-103.5	102.0					RUN-14			102.0ft: soft to medium hard, few vugs, most shell casts
-108.5	107.0					RUN-15			107.0ft: little vugs
-113.5	112.0					RUN-16			112.0ft: gray (10YR7/2), medium hard to soft, moderately indurated to friable, trace vugs, little fine grained sand
-116.5									115.0
-118.5	117.0	5	10	14	24	802-19			Silty SAND (SM), light gray (5Y7/2), medium dense, wet, fine grained sand, trace cemented sand, weak HCl reaction (Tamiami Formation)
-128.5	127.0	6	8	7	15	802-20			
-130.0									127.0ft: light greenish gray (10Y7/1) 128.5 Boring Terminated at Elevation -130.0 ft

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/14/08