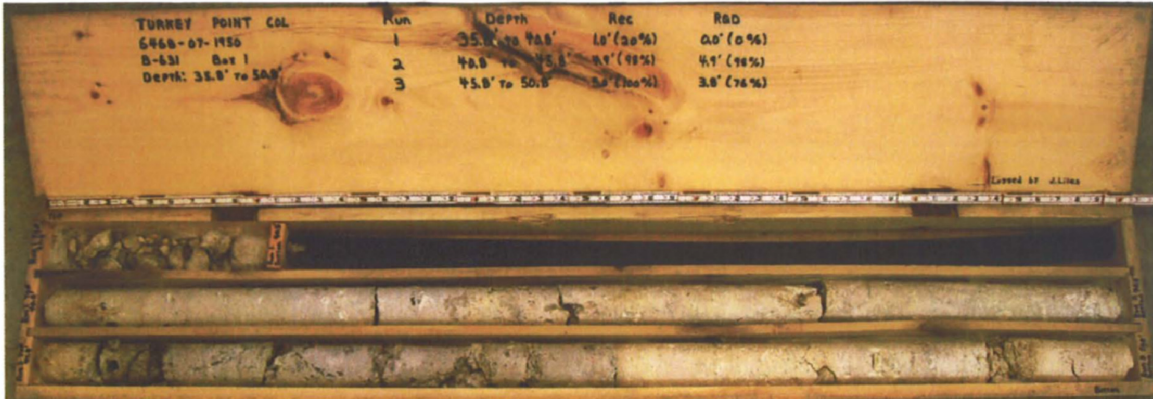




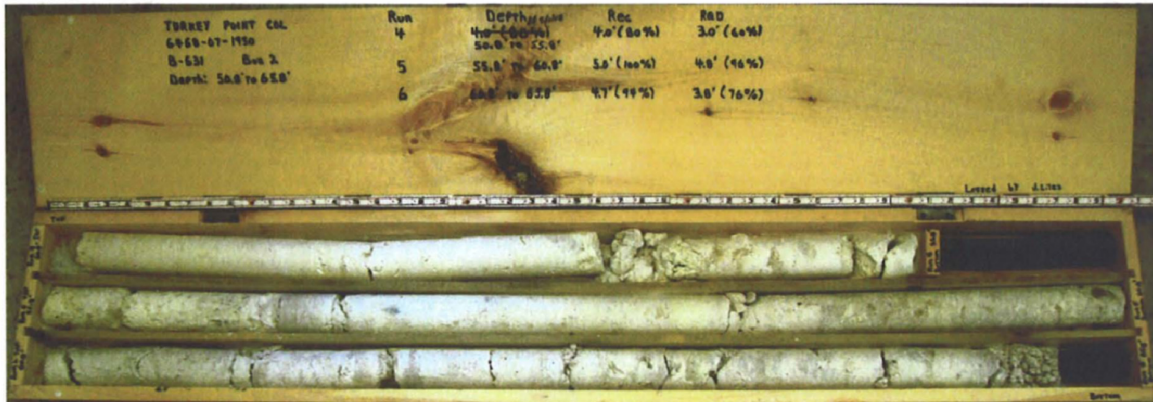
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: J. Liles	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger/ C. White		GROUND WATER (ft)	
BORING NO.: B-631		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.2 ft (NAVD88)		NORTHING: 396,655 US ft (NAD83/90)		EASTING: 876,514 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 100.8 ft		CASING DEPTH: 4" to 33.5'				HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 4/30/08		COMPLETED: 5/2/08		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 @ 35.8 ft
-37.0	35.8	5.0	1:39 1:35 2:37 2:58 2:46	(1.0) 20%	(0.0) 0%	RUN-1	(8.5) 67%	(6.3) 50%		LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, trace fine grained sand, strong HCl reaction (Upper Fort Thompson Formation) (continued) 35.8ft: (2.5Y8/1), hard, indurated, strong HCl reaction, fossiliferous
-42.0	40.8	5.0	2:09 1:36 1:33 1:49 2:01	(4.9) 98%	(4.9) 98%	RUN-2				40.8ft: recrystallized calcite, coralline
-47.0	45.8	5.0	1:36 2:28 1:54 2:06 1:27	(5.0) 100%	(3.8) 76%	RUN-3				45.8ft: light gray (10YR7/1) to 48.4ft. moderately hard to hard, moderately indurated to indurated
-52.0	50.8	5.0	2:11 1:39 0:31 0:47 1:14	(4.0) 80%	(3.0) 60%	RUN-4	(28.3) 80%	(17.6) 50%		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, little vugs, fossiliferous, trace shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) 50.8ft: medium hard to moderately hard, friable to moderately indurated, few vugs
-57.0	55.8	5.0	1:32 2:03 1:49 2:01 1:45	(5.0) 100%	(4.8) 96%	RUN-5				55.8ft: moderately hard to hard, moderately indurated to indurated
-62.0	60.8	5.0	1:50 1:18 1:23 1:06 0:27	(4.7) 94%	(3.8) 76%	RUN-6				60.8ft: medium hard to hard, friable to moderately indurated 65.3ft: 0.3ft-thick sand lense
-67.0	65.8	5.0	1:50 1:09 0:32 0:31 1:07	(4.6) 92%	(1.6) 32%	RUN-7				65.8ft: medium hard to moderately hard, little to some fine grained sand
-72.0	70.8	5.0	4:23 1:37 1:52 1:17 1:45	(3.8) 76%	(2.0) 40%	RUN-8				
-77.0	75.8	5.0	0:35 0:50 1:13 0:13 0:09	(1.7) 34%	(0.0) 0%	RUN-9				
-82.0	80.8	5.0	0:40 1:22 0:59 0:08 0:08	(2.1) 42%	(0.0) 0%	RUN-10				
-87.0	85.8						(0.0) 0%	(NA)		POORLY GRADED SAND (SP), white (2.5Y8/1), wet, fine grained sand, strong HCl reaction
-88.3	87.1	3.7	1:57 1:23 1:16 1:00	(2.8) 76%	(0.4) 11%	RUN-11	(9.7) 67%	(3.0) 21%		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, strong HCl reaction, trace fine sand, few vugs
-92.0	90.8	5.0	1:33 1:29 1:01 1:11 1:31	(2.0) 40%	(0.4) 8%	RUN-12				90.8ft: hard, indurated
-97.0	95.8	5.0	0:39 1:25 1:37 1:36 1:05	(4.9) 98%	(2.2) 44%	RUN-13				95.8ft: moderately hard to hard, friable to indurated, trace shell molds and casts
-102.0	100.8									Coring Terminated at Elevation -102.0

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GBT 5:30/08



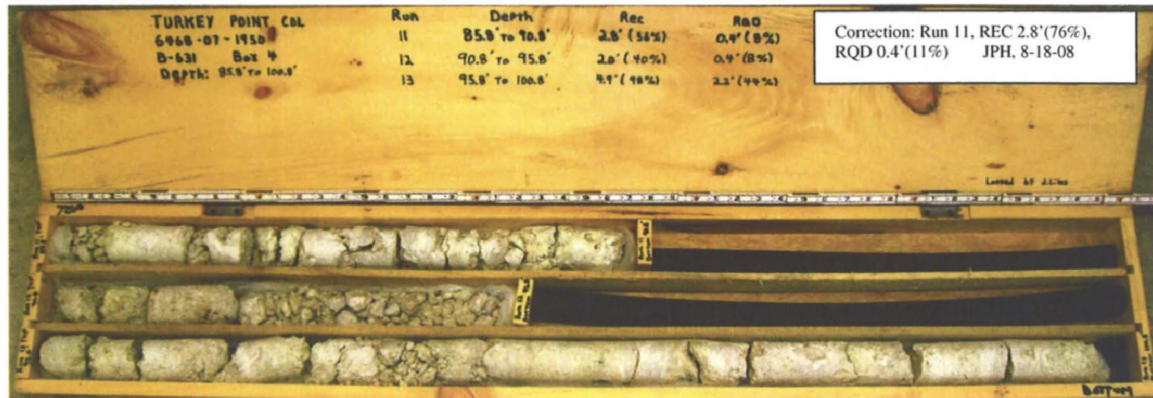
B-631 - Box 1



B-631 - Box 2



B-631 - Box 3



B-631 - Box 4



GEOTECHNICAL BORING LOG

Prepared By J.P.J. Date 5-20-08

Checked By J.M. Date 5-26-08

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/ B. Green		GROUND WATER (ft)							
BORING NO.: B-632		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.6 ft (NAVD88)		NORTHING: 396,432 US ft (NAD83/90)		EASTING: 876,737 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 100.3 ft		BORING DIAMETER: 4" to 33.6', 3" to 100.3'		CASING DEPTH: 4" to 33.6'		HAMMER (ID): 140 lb. Auto (M06)							
DATE STARTED: 5/4/08		COMPLETED: 5/5/08		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
-1.6					Ground Surface								
-1.6	0.0	WOH	WOH	WOH									
-4.1	2.5									632-1		MUCK, very dark grayish brown (2.5Y3/2), very soft, wet, strong HCl reaction	
-6.7	5.1	WOH	1	6						632-2A&B			
-9.0	7.4	6	7	5						632-3		LIMESTONE, boundstone, pale yellow (2.5Y8/2), very soft, wet, strong HCl reaction, trace fine grained sand, oolitic (Miami Formation)	
-11.6	10.0	20	50/0.1							632-4		5.1ft: little sand 7.4ft: hard	
-14.0	12.4	6	5	6						632-5			
-16.6	15.0	5	13	12						632-6		12.1ft: soft, trace sand	
		17	19	16						632-7		15.0ft: medium hard	
-23.7	22.1	3	3	1						632-8		22.1ft: very soft	
-28.5	26.9	7	25	48						632-9		LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation)	
-33.7	32.1	3	22	5						632-10		32.1ft: soft	
-36.9	35.3									632-11		35.3ft: moderately hard, little fine to medium grained sand	
-38.4	36.8	9	21	30						RUN-1		36.8ft: Switch sampling method to coring	
-42.9	41.3									RUN-2		36.8ft: hard, indurated, some vugs, recrystallized calcite, coralline	
-47.9	46.3									RUN-3		41.3ft: trace vugs	
-52.9	51.3									RUN-4		46.3 to 48.1ft: gray (2.5Y6/1)	
-57.9	56.3									RUN-5		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation)	
-62.9	61.3									RUN-6		51.3ft: medium hard to moderately hard, friable to moderately indurated, trace vugs, fossiliferous	
-67.9	66.3									RUN-7		56.3ft: trace to few fine grained sand	
-72.9	71.3									RUN-8		61.3ft: medium hard to hard, friable to indurated	
												66.3ft: trace shell molds	
												71.3ft: moderately hard to hard, moderately indurated to indurated	
												73.0 to 76.0ft: soft zone, possible sand interbed	

TURKEY POINT COL BORE TURKEY POINT G.P.J. 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/ B. Green		GROUND WATER (ft)							
BORING NO.: B-632		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.6 ft (NAVD88)		NORTHING: 396,432 US ft (NAD83/90)		EASTING: 876,737 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 100.3 ft		BORING DIAMETER: 4" to 33.6', 3" to 100.3'		CASING DEPTH: 4" to 33.6'		HAMMER (ID):140 lb. Auto (M06)							
DATE STARTED: 5/4/08		COMPLETED: 5/5/08		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				100
-76.4					Continued from previous page								
-77.9	76.3												LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation) (continued)
-82.9	81.3												76.3ft: some vugs, trace shell molds and casts
-87.9	86.3												81.3ft: few vugs 83.0 to 84.0ft: soft zone, possible sand interbed
-92.9	91.3												86.3ft: medium hard to hard, friable to indurated, few shell molds and casts
-97.9	96.3												91.3ft: some vugs, few to little shell molds and casts
													96.3ft: moderately hard to hard, moderately indurated to indurated, little vugs
													-101.9 Boring Terminated at Elevation -101.9 ft 100.3

TURKEY POINT COL BORE TURKEY POINT COL GDT 5:30 08



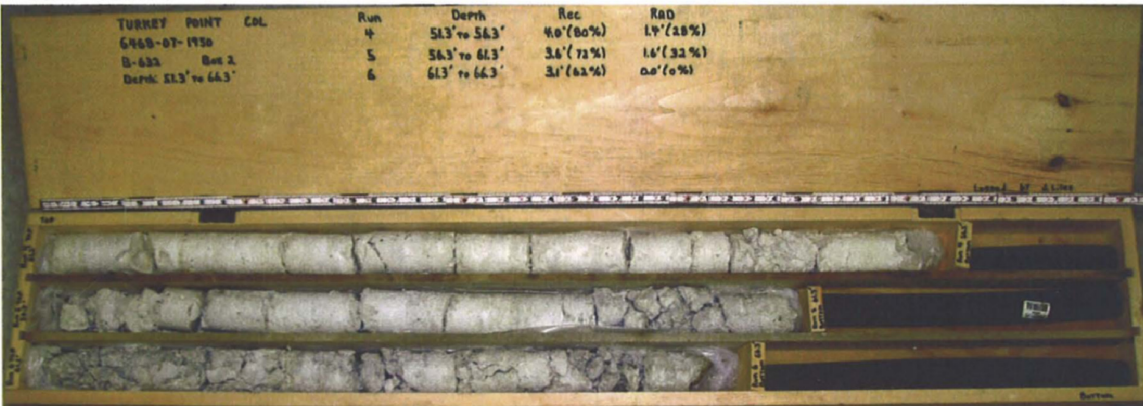
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: J. Liles	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger/ B. Green		GROUND WATER (ft)	
BORING NO.: B-632		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.6 ft (NAVD88)		NORTHING: 396,432 US ft (NAD83/90)		EASTING: 876,737 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 100.3 ft		CASING DEPTH: 4" to 33.6'				HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 5/4/08		COMPLETED: 5/5/08		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 @ 36.8 ft
-38.4	36.8	4.5	1:39 0:30 3:28 3:13	(3.5) 78%	(1.7) 38%	RUN-1	(10.3) 91%	(6.9) 61%		LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation) (continued) 36.8ft: hard, indurated, some vugs, recrystallized calcite, coralline
-42.9	41.3	5.0	0:49/0.5 2:18 1:30 1:59 2:01 2:19	(5.0) 100%	(4.0) 80%	RUN-2				41.3ft: trace vugs
-47.9	46.3	5.0	2:04 3:03 1:55 1:54 1:35	(4.9) 98%	(3.9) 78%	RUN-3			-49.7	46.3 to 48.1ft: gray (2.5Y6/1) 48.1
-52.9	51.3	5.0	1:55 1:20 0:55 0:23 0:29	(4.0) 80%	(1.4) 28%	RUN-4	(39.9) 76%	(15.3) 29%		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation)
-57.9	56.3	5.0	0:51 1:00 0:40 0:30 0:31	(3.6) 72%	(1.6) 32%	RUN-5				51.3ft: medium hard to moderately hard, friable to moderately indurated, trace vugs, fossiliferous
-62.9	61.3	5.0	0:44 0:55 0:24 0:09 0:37	(3.1) 62%	(0.0) 0%	RUN-6				56.3ft: trace to few fine grained sand
-67.9	66.3	5.0	0:57 1:38 0:32 1:01 1:00	(3.7) 74%	(1.7) 34%	RUN-7				61.3ft: medium hard to hard, friable to indurated
-72.9	71.3	5.0	0:42 0:05 0:03 0:22	(1.7) 34%	(0.4) 8%	RUN-8				66.3ft: trace shell molds
-77.9	76.3	5.0	1:52 0:42 0:05 0:03 0:22	(1.7) 34%	(0.4) 8%	RUN-8				71.3ft: moderately hard to hard, moderately indurated to indurated 73.0 to 76.0ft: soft zone, possible sand interbed
-82.9	81.3	5.0	1:53 1:37 1:23 1:30 0:37	(4.8) 96%	(3.5) 70%	RUN-9				76.3ft: some vugs, trace shell molds and casts
-87.9	86.3	5.0	0:29 0:44 0:15 0:41 1:06	(3.8) 76%	(0.4) 8%	RUN-10				81.3ft: few vugs 83.0 to 84.0ft: soft zone, possible sand interbed
-92.9	91.3	5.0	1:27 1:44 0:38 0:52 1:04	(3.5) 70%	(0.8) 16%	RUN-11				86.3ft: medium hard to hard, friable to indurated, few shell molds and casts
-97.9	96.3	5.0	1:05 0:40 0:49 0:47 0:42	(4.7) 94%	(1.7) 34%	RUN-12				91.3ft: some vugs, few to little shell molds and casts
-101.9	100.3	4.0	0:44 0:43 1:05 0:53	(3.9) 98%	(1.1) 28%	RUN-13				96.3ft: moderately hard to hard, moderately indurated to indurated, little vugs
									-101.9	100.3 Coring Terminated at Elevation -101.9

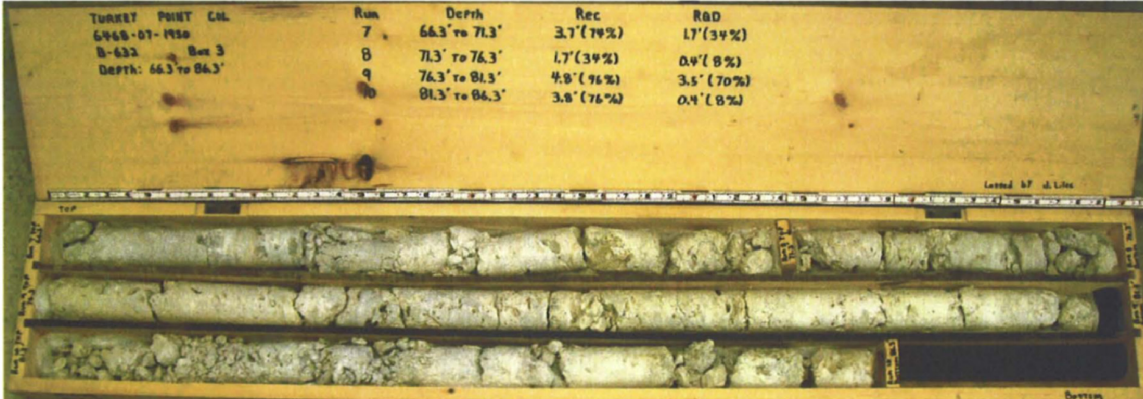
TURKEY POINT CORE TURKEY POINT COL GDI 5/30/08



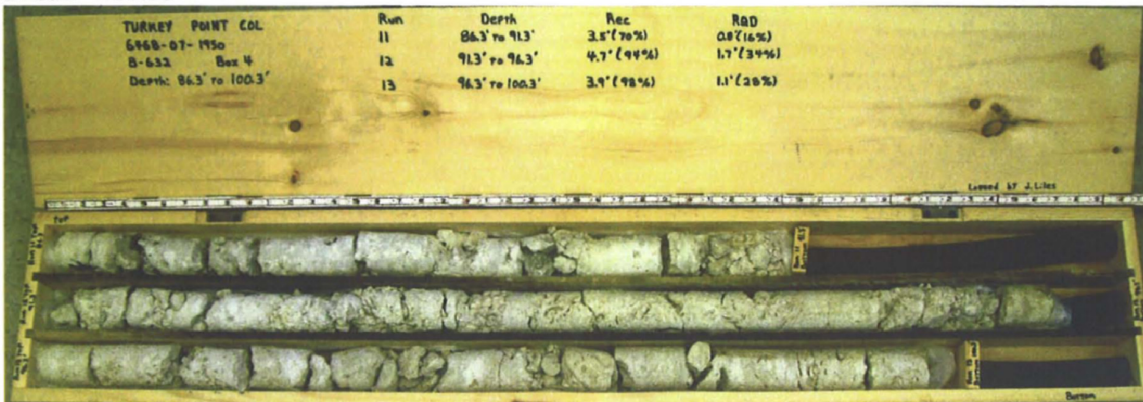
B-632 - Box 1



B-632 - Box 2



B-632 - Box 3



B-632 - Box 4



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Lehman								
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 Marsh Buggy		DRILLER: P. Pitts/ B. Carrasco		GROUND WATER (ft)								
BORING NO.: B-633		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA								
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,113 US ft (NAD83/90)		EASTING: 876,994 US ft (NAD83/90)		24 HR. NA								
TOTAL DEPTH: 100.4 ft		BORING DIAMETER: 4" to 100.4"		CASING DEPTH: 4" to 28.4'		HAMMER (ID):140 lb. Auto (MEC-425)								
DATE STARTED: 5/13/08		COMPLETED: 5/15/08		CORE SIZE: HQ3		BITS USED: 3 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				100	
-1.5	0.0	WOR	WOR	WOR	Ground Surface							-1.5	0.0	
-5.0	3.5	9	5	7	SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA					633-1		MUCK, very dark grayish brown (2.5Y3/2), very soft, wet, strong HCl reaction, organics, trace shell fragments	-4.5	3.0
-7.5	6.0	4	15	50/0.4						633-2		LIMESTONE, boundstone, white (2.5Y8/1), very soft, friable, wet, strong HCl reaction, oolitic (Miami Formation)		
-10.0	8.5	3	5	3						633-3		6.0ft: hard, friable to indurated		
-12.5	11.0	6	50/0.3						633-4		8.5ft: very soft, friable			
-15.0	13.5	9	9	17						633-5		11.0ft: hard		
-20.0	18.5	17	8	8						633-6		13.5ft: soft, moderately indurated		
-25.0	23.5	11	9	9						633-7		18.5ft: very soft		
-30.0	28.5	7	6	19						633-8		23.5ft: friable to moderately indurated	-27.5	26.0
-35.0	33.5	36	23	50/0.3						633-9		LIMESTONE, boundstone, white (2.5Y8/1), soft, wet, moderately indurated, strong HCl reaction, fossiliferous, coralline (Upper Fort Thompson Formation)		
-36.3	34.8									633-10		33.5ft: hard, indurated		
-37.3	35.8									RUN-1		34.8ft: Switch sampling method to SPT		
										RUN-2		34.8ft: few vugs		
										RUN-3		35.8ft: little vugs, recrystallized calcite		
-42.3	40.8									RUN-4		45.8ft: light gray (10Y7/1), few vugs, to 47.8ft	-49.3	47.8
-47.3	45.8									RUN-5		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation)		
-52.3	50.8									RUN-6		50.8ft: white (2.5Y8/1), to light gray (2.5Y7/1)		
-57.3	55.8									RUN-7		55.8ft: white (2.5Y8/1), shell molds		
-62.3	60.8									RUN-8		65.8ft: moderately indurated to indurated, little vugs		
-67.3	65.8									RUN-8				
-72.3	70.8									RUN-8		70.8ft: indurated, trace vugs		

TURKEY POINT COL BORE TURKEY POINT COL GDI 8/18/08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Lehman								
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 Marsh Buggy		DRILLER: P. Pitts/ B. Carrasco		GROUND WATER (ft)								
BORING NO.: B-633		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA							
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,113 US ft (NAD83/90)		EASTING: 876,994 US ft (NAD83/90)		24 HR.	NA							
TOTAL DEPTH: 100.4 ft		BORING DIAMETER: 4" to 100.4"		CASING DEPTH: 4" to 28.4'		HAMMER (ID): 140 lb. Auto (MEC-425)								
DATE STARTED: 5/13/08		COMPLETED: 5/15/08		CORE SIZE: HQ3		BITS USED: 3 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
-76.3					Continued from previous page									
-77.3	75.8													LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-82.3	80.8													75.8ft: few vugs
-87.3	85.8													80.8ft: trace vugs
-92.3	90.8													85.8ft: moderately hard to hard, moderately indurated to indurated, few to little vugs
-97.3	95.8													90.5ft: hard, indurated, trace vugs
														95.8ft: moderately hard, moderately indurated
														Boring Terminated at Elevation -101.9 ft

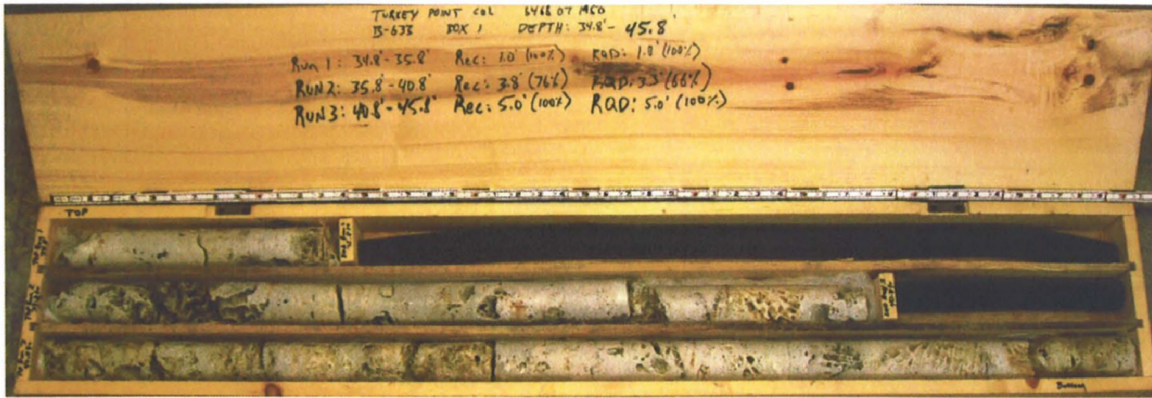
TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL.GPJ 8/18/08



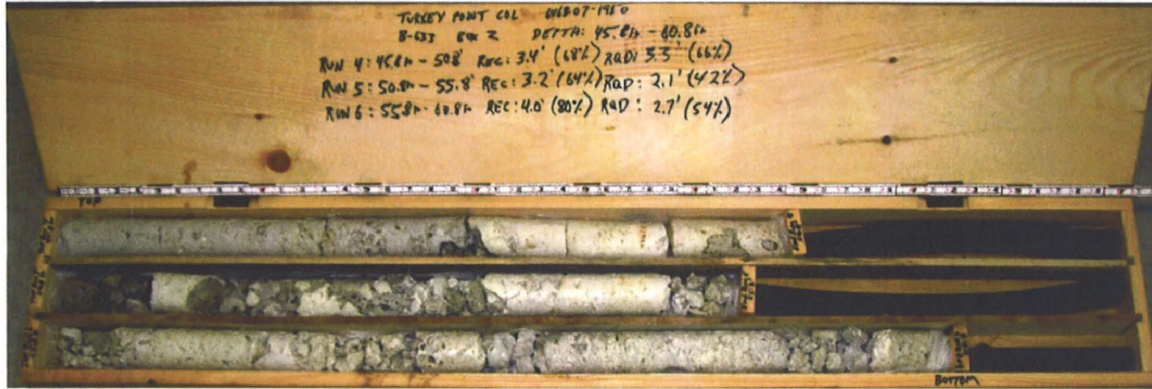
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: S. Lehman
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 Marsh Buggy		DRILLER: P. Pitts/ B. Carrasco	
BORING NO.: B-633		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,113 US ft (NAD83/90)		EASTING: 876,994 US ft (NAD83/90)	
TOTAL DEPTH: 100.4 ft		CASING DEPTH: 4" to 28.4'			HAMMER (ID): 140 lb. Auto (MEC-425)
DATE STARTED: 5/13/08		COMPLETED: 5/15/08		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 @ 34.8 ft
-36.3	34.8	1.0	8:11	(1.0)	(1.0)	RUN-1	(11.8)	(11.2)		LIMESTONE, boundstone, white (2.5Y8/1), soft, wet, moderately indurated, strong HCl reaction, fossiliferous, coralline (Upper Fort Thompson Formation) <i>(continued)</i> 34.8ft: few vugs 35.8ft: little vugs, recrystallized calcite
-37.3	35.8	5.0	8:00 8:20 11:51 10:02 5:33	100% (3.8)	100% (3.3)	RUN-2	91%	86%		
-42.3	40.8	5.0	24:59 17:44 9:25 6:54 5:58	(5.0)	(5.0)	RUN-3				
-47.3	45.8	5.0	8:16 5:04 3:43 4:03 3:09	(3.4)	(3.3)	RUN-4				45.8ft: light gray (10Y7/1), few vugs, to 47.8ft
-52.3	50.8	5.0	4:27 1:11 3:30 1:17 1:10	(3.2)	(2.1)	RUN-5	(32.8)	(17.6)		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation) 50.8ft: white (2.5Y8/1), to light gray (2.5Y7/1)
-57.3	55.8	5.0	4:22 2:27 2:46 1:10 3:09	(4.0)	(2.7)	RUN-6				55.8ft: white (2.5Y8/1), shell molds
-62.3	60.8	5.0	3:28 8:10 4:10 0:58 1:04	(2.7)	(2.2)	RUN-7				
-67.3	65.8	5.0	3:44 5:37 3:56 2:12 3:55	(1.9)	(0.0)	RUN-8				65.8ft: moderately indurated to indurated, little vugs
-72.3	70.8	5.0	3:23 3:21 3:04 3:25 3:58	(1.7)	(0.6)	RUN-9				70.8ft: indurated, trace vugs
-77.3	75.8	5.0	7:01 9:45 5:59 8:15 3:18	(3.9)	(1.6)	RUN-10				75.8ft: few vugs
-82.3	80.8	5.0	6:19 6:50 3:10 5:30 1:47	(2.8)	(1.0)	RUN-11				80.8ft: trace vugs
-87.3	85.8	5.0	3:11 6:20 4:14 3:45 3:00	(4.3)	(2.8)	RUN-12				85.8ft: moderately hard to hard, moderately indurated to indurated, few to little vugs
-92.3	90.8	5.0	3:10 1:50 0:55 2:05 1:41	(3.7)	(1.7)	RUN-13				90.5ft: hard, indurated, trace vugs
-97.3	95.8	4.6	1:08 0:28 3:31 3:33 3:40/0.6	(3.2)	(1.5)	RUN-14				95.8ft: moderately hard, moderately indurated
-101.9	100.4									Coring Terminated at Elevation -101.9

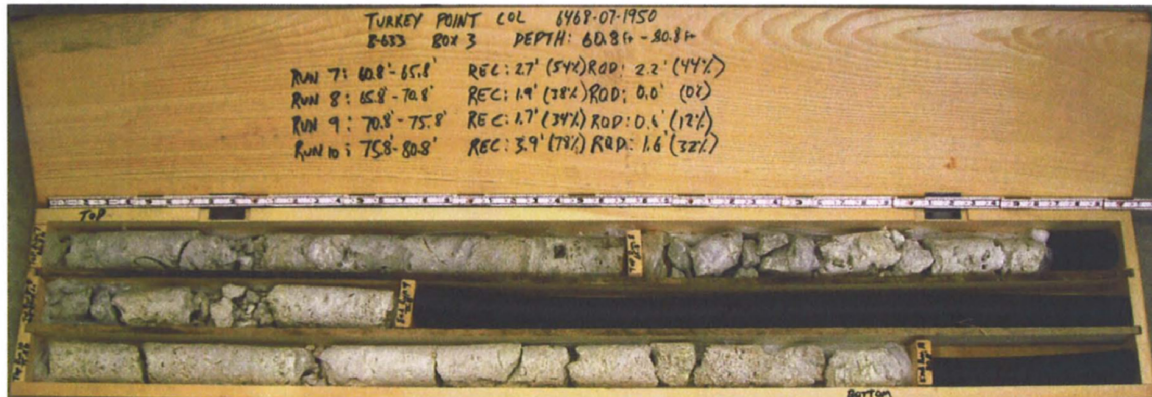
TURKEY POINT CORE TURKEY POINT GPJ TURKEY POINT COL GDI 5/18/08



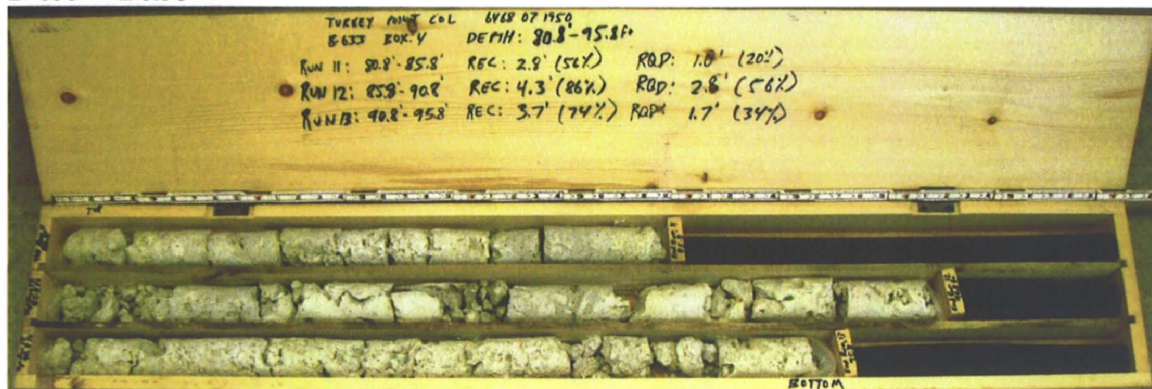
B-633 - Box 1



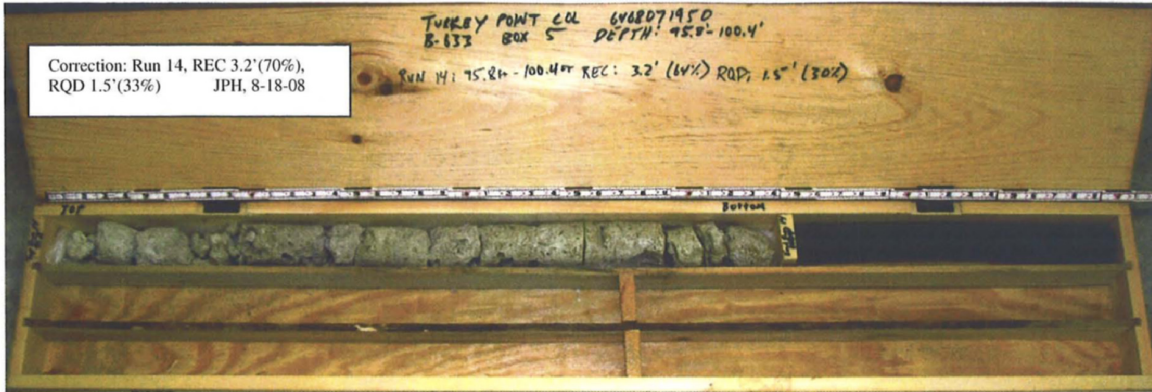
B-633 - Box 2



B-633 - Box 3



B-633 - Box 4



B-633 - Box 5



GEOTECHNICAL BORING LOG

Prepared By PPZ 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: H. Lyatuu							
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)							
BORING NO.: B-634		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -0.7 ft (NAVD88)		NORTHING: 395,758 US ft (NAD83/90)		EASTING: 876,677 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 127.5 ft		BORING DIAMETER: 4" to 30.0', 3" to 127.5'		CASING DEPTH: 4" to 30.0', 3" to 126.0'		HAMMER (ID): 140 lb. Auto (893)							
DATE STARTED: 4/7/08		COMPLETED: 4/9/08		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
-0.7					Ground Surface							-0.7	0.0
-0.7	0.0	WOH	WOH	WOH							634-1	MUCK, very dark gray (7.5YR3/1), very soft, wet, trace fine grained sand, trace shell fragments, strong HCl reaction	
-3.2	2.5	1	1	2							634-2		
-5.7	5.0	4	3	3							634-3	2.5ft: soft, weak HCl reaction	4.5
-8.2	7.5	17	25	10							634-4	LIMESTONE, boundstone, white (10YR8/1), very soft, wet, trace shell fragments, strong HCl reaction, oolitic (Miami Formation)	
-10.7	10.0	6	6	6							634-5	7.5ft: white (10YR8/10), to gray (10YR6/1), medium hard	
-13.2	12.5	12	9	7							634-6	10.0ft: white (10YR8/1), very soft	
-15.7	15.0	6	12	13							634-7	15.0ft: soft	
-19.5	18.8	44	21	10							634-8	18.8ft: white (2.5Y8/1), medium hard	
-24.5	23.8	10	3	4							634-9	23.8ft: white (10YR8/1), soft	
-29.5	28.8	14	38	50/0.4							634-10	LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, trace fine grained sand, strong HCl reaction (Upper Fort Thompson Formation)	27.0
-30.9	30.2										RUN-1	30.2ft: Switch sampling method to coring	
-32.0	31.3										RUN-2	30.2ft: white (10YR8/1), soft to hard, friable to indurated, fossiliferous, strong HCl reaction, few vugs	
-37.2	36.5										RUN-3	31.3ft: moderately hard, moderately indurated, cemented sand layers, coralline	
-42.2	41.5										RUN-4	36.5ft: hard, indurated, locally interconnected vugs	
-47.2	46.5										RUN-5	41.5ft: few vugs	
-52.2	51.5										RUN-6	LIMESTONE, boundstone, white (7.5YR8/1), moderately hard, moderately indurated, trace shell molds and casts (Lower Fort Thompson Formation)	51.5
-57.2	56.5										RUN-7	56.5ft: white (2.5Y8/1)	
-62.2	61.5										RUN-8	61.5ft: white (7.5YR8/1), hard, indurated	
-67.2	66.5										RUN-9	66.5ft: white (10YR8/1)	
-72.2	71.5										RUN-10	66.5 to 76.5ft: interbedded sand layers	
												71.5ft: moderately hard, moderately indurated	

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: H. Lyatuu												
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)												
BORING NO.: B-634		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA												
GROUND ELEV.: -0.7 ft (NAVD88)		NORTHING: 395,758 US ft (NAD83/90)		EASTING: 876,677 US ft (NAD83/90)		24 HR. NA												
TOTAL DEPTH: 127.5 ft		BORING DIAMETER: 4" to 30.0', 3" to 127.5'		CASING DEPTH: 4" to 30.0', 3" to 126.0'		HAMMER (ID): 140 lb. Auto (893)												
DATE STARTED: 4/7/08		COMPLETED: 4/9/08		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					
-75.5					Continued from previous page													
-77.2	76.5												LIMESTONE: boundstone, white (7.5YR8/1), moderately hard, moderately indurated, trace shell molds and casts (Lower Fort Thompson Formation) (continued)					
-78.7	78.0	3	9	11														
-82.2	81.5													81.5ft: medium hard				
-87.2	86.5													86.5ft: little shell molds and casts				
-92.2	91.5																	
-97.2	96.5																	
-102.2	101.5													101.5ft: mostly shell molds and casts				
-107.2	106.5																	
-112.2	111.5													111.5ft: trace shell molds and casts				
-117.2	116.5	8	9	5										-115.7	115.0	Silty SAND (SM), light gray (10YR7/2), medium dense, wet, interbedded friable sandy limestone lenses (Tamiami Formation) 116.5ft: Switch sampling method to SPT		
-126.7	126.0	4	4	5												126.0ft: loose		
																-128.2	127.5	Boring Terminated at Elevation -128.2 ft

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



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	
BORING NO.: B-634		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -0.7 ft (NAVD88)		NORTHING: 395,758 US ft (NAD83/90)		EASTING: 876,677 US ft (NAD83/90)	
TOTAL DEPTH: 127.5 ft		CASING DEPTH: 4" to 30.0', 3" to 126.0'			HAMMER (ID): 140 lb. Auto (893)
DATE STARTED: 4/7/08		COMPLETED: 4/9/08		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 @ 30.2 ft
-30.9	30.2	1.3	1.20	(0.4)	(0.0)	RUN-1	(15.2)	(5.1)		LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, trace fine grained sand, strong HCl reaction (Upper Fort Thompson Formation)
-32.2	31.5	5.0	0.20/0.3	31%	0%	RUN-2	71%	24%		(continued)
			1.02	(3.0)	(1.3)	RUN-2				30.2ft: white (10YR8/1), soft to hard, friable to indurated, fossiliferous, strong HCl reaction, few vugs
			1.00	60%	26%					31.3ft: moderately hard, moderately indurated, cemented sand layers, coralline
-37.2	36.5	5.0	2.02	(4.8)	(3.0)	RUN-3				36.5ft: hard, indurated, locally interconnected vugs
			1.52	96%	60%					
			1.52							
			1.28							
			1.12							
-42.2	41.5	5.0	1.19	(3.9)	(0.4)	RUN-4				41.5ft: few vugs
			1.00	78%	8%					
			1.30							
			0.59							
			1.12							
-47.2	46.5	5.0	1.34	(3.1)	(0.4)	RUN-5				
			1.15	62%	8%					
			1.20							
			1.35							
			0.45							
-52.2	51.5	5.0	0.55	(3.4)	(0.9)	RUN-6	(30.6)	(4.6)		LIMESTONE, boundstone, white (7.5YR8/1), moderately hard, moderately indurated, trace shell molds and casts (Lower Fort Thompson Formation)
			1.12	68%	18%		48%	7%		
			1.20							
			0.52							
			1.15							
-57.2	56.5	5.0	0.46	(2.7)	(0.8)	RUN-7				56.5ft: white (2.5Y8/1)
			0.48	54%	16%					
			0.48							
			2.00							
			2.45							
-62.2	61.5	5.0	2.21	(3.0)	(0.0)	RUN-8				61.5ft: white (7.5YR8/1), hard, indurated
			1.10	60%	0%					
			0.41							
			1.10							
			0.33							
-67.2	66.5	5.0	0.50	(1.0)	(0.0)	RUN-9				66.5ft: white (10YR8/1)
			0.45	20%	0%					66.5 to 76.5ft: interbedded sand layers
			0.10							
			0.10							
			0.06							
			0.08							
-72.2	71.5	5.0	0.08	(0.8)	(0.0)	RUN-10				71.5ft: moderately hard, moderately indurated
			0.28	16%	0%					
			0.17							
			0.40							
			0.10							
			0.10							
			N=20			634-11A&B				
-78.7	78.0	3.5	2.00	(1.8)	(0.4)	RUN-11				
			0.47	51%	11%					
			0.56							
-82.2	81.5	5.0	0.33/0.5	(2.4)	(0.4)	RUN-12				81.5ft: medium hard
			0.40	48%	8%					
			0.20							
			0.22							
			0.15							
-87.2	86.5	5.0	0.15	(1.2)	(0.0)	RUN-13				86.5ft: little shell molds and casts
			0.36	24%	0%					
			0.36							
			0.16							
			0.56							
			1.06							
-92.2	91.5	5.0	1.06	(3.2)	(1.4)	RUN-14				
			1.10	64%	28%					
			0.58							
			0.25							
			0.40							
			0.35							
-97.2	96.5	5.0	0.35	(2.0)	(0.0)	RUN-15				
			0.21	40%	0%					
			0.28							
			0.15							
			0.25							
			0.16							
-102.2	101.5	5.0	0.16	(4.2)	(0.7)	RUN-16				101.5ft: mostly shell molds and casts
			0.25	84%	14%					
			0.44							
			0.43							

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