


Boring Designation VB-MCSP07-33

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS				
1. PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS Offshore Borrow Area			9. SIZE AND TYPE OF BIT See Remarks						
2. BORING DESIGNATION VB-MCSP07-33		LOCATION COORDINATES X = 950,547 Y = 1,080,231	10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83	VERTICAL MLLW				
3. DRILLING AGENCY Challenge Engineering & Testing, Inc.		CONTRACTOR FILE NO. 2007D32	11. MANUFACTURER'S DESIGNATION OF DRILL <input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER Alpine Vibracore Unit						
4. NAME OF DRILLER Alpine Ocean Seismic, Inc.			12. TOTAL SAMPLES	DISTURBED 4	UNDISTURBED (UD) 0				
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES	1					
6. THICKNESS OF OVERBURDEN N/A			14. ELEVATION GROUND WATER Tidal						
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING	STARTED 08-11-07	COMPLETED 08-11-07				
8. TOTAL DEPTH OF BORING 20.0 Ft.			16. ELEVATION TOP OF BORING -52.9 Ft.						
			17. TOTAL RECOVERY FOR BORING 97 %						
			18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-52.9	0.0						-52.9		
			SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 7/2 light gray	965			Vibracore		
				NR	1		-54.9		
-55.5	2.6						-55.4		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 3/8", weak reaction with HCl, moist, 10YR 7/2 light gray (SP)	NR					
				NR	2		-56.9		
				NR			-57.4		
				NR	3		-57.9		
				NR			-58.4		
				NR					
				NR	4		-59.9		
							-60.4		
				NR					
			At El. -66.1 Ft., mostly rounded fine-grained sand-sized quartz, some angular shell up to 1-1/2", weak reaction with HCl, moist, 10YR 5/1 gray						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																	
PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLLW																	
LOCATION COORDINATES X = 950,547 Y = 1,080,231			ELEVATION TOP OF BORING -52.9 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-69.5	16.6		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular fine to medium-grained sand-sized shell, strong reaction with HCl, moist, 10YR 5/1 gray (SP)	NR																			
-72.2	19.3																						
-72.9	20.0																						
		NR					-72.9																
NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>7.0/7.5</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	4.0/4.5	SP*	3	5.0/5.5	SP*	4	7.0/7.5	SP-SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	2.0/2.5	SP*																					
2	4.0/4.5	SP*																					
3	5.0/5.5	SP*																					
4	7.0/7.5	SP-SM*																					

Penetration Graph for Core No. VB-MCSP07-33, Run 1

Date: 8/11/2007
Start Time: 10:26:15 AM
End Time: 10:30:56 AM

Penetration: 19.56 ft
Recovery: 19.3
W. D. Corrected: 52.9
W. D. Raw: 54.6

Easting: 950547
Northing: 1080231
Coord. System: FL East

Lat: 27d 17.1521' N
Long: 80d 5.6068' W
Datum: NAD-83

Comment:

