

Boring Designation VB-MCSP07-1

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-MCSP07-1			LOCATION COORDINATES X = 947,939 Y = 1,070,851		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 Alpine Vibracore Unit		<input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
4. NAME OF DRILLER Alpine Ocean Seismic, Inc.					12. TOTAL SAMPLES 4		DISTURBED 0	UNDISTURBED (UD)	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL		BEARING				
6. THICKNESS OF OVERBURDEN N/A					13. TOTAL NUMBER CORE BOXES 1				
7. DEPTH DRILLED INTO ROCK N/A					14. ELEVATION GROUND WATER Tidal				
8. TOTAL DEPTH OF BORING 20.0 Ft.					15. DATE BORING 08-09-07		STARTED 08-09-07	COMPLETED 08-09-07	
					16. ELEVATION TOP OF BORING -47.0 Ft.				
					17. TOTAL RECOVERY FOR BORING 96 %				
					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
-47.0	0.0						-47.0		
			SHELL, mostly angular shell up to 1/4", little subangular fine to medium-grained sand-sized carbonate, trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 7/2 light gray	640			Vibracore		
				NR	1		-50.0		
							-50.5		
				NR					
-53.1	6.1						-53.0		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular coarse-grained sand-sized shell up to 1/4", weak reaction with HCl, moist, 10YR 5/1 gray (SP)	NR	2		-53.5		
				NR					
				NR	3		-56.0		
							-56.5		
-58.0	11.0								
			SAND, silty, mostly subangular fine to medium-grained sand-sized carbonate, some angular coarse-grained sand-sized shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR	4		-59.0		
							-59.5		
				NR					
-62.0	15.0								

DRILLING LOG (Cont. Sheet)				INSTALLATION		SHEET 2 OF 2 SHEETS																		
PROJECT				COORDINATE SYSTEM/DATUM		HORIZONTAL	VERTICAL																	
MARTIN COUNTY OFFSHORE INVESTIGATIONS				State Plane, FLE (U.S. Ft.)		NAD83	MLLW																	
LOCATION COORDINATES				ELEVATION TOP OF BORING																				
X = 947,939 Y = 1,070,851				-47.0 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-66.2	19.2		SHELL, mostly angular fine gravel-sized shell up to 1-1/2", some subrounded fine-grained sand-sized silt, weak reaction with HCl, moist, 10YR 6/1 gray																					
-67.0	20.0	NR	At El. -64.1 Ft., some subangular fine to medium-grained sand-sized carbonate, trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 4/1 dark gray	NR																				
			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>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	6.0/6.5	SP*	3	9.0/9.5	SP*	4	12.0/12.5	SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
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3	9.0/9.5	SP*																						
4	12.0/12.5	SM*																						

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

Date: 8/9/2007
Start Time: 10:38:44 AM
End Time: 10:41:46 AM

Penetration: 19.83 ft
Recovery: 19.2
W. D. Corrected: 47
W. D. Raw: 48.2

Easting: 947939
Northing: 1070851
Coord. System: FL East

Lat: 27d 16.6119' N
Long: 80d 6.1009' W
Datum: NAD-83

Comment:

