

Boring Designation VB-MCSP07-29

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-MCSP07-29		LOCATION COORDINATES X = 948,559 Y = 1,079,484		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83			
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			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-12-07		STARTED 08-12-07			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -55.5 Ft.		COMPLETED 08-12-07			
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 100 %					
				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
-55.5	0.0		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	667			-55.5		
-59.0	3.5		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular fine to medium-grained sand-sized shell up to 1/4", weak reaction with HCl, moist, 10YR 4/1 dark gray (SP)	NR	1		-58.5 -59.0		
-61.6	6.1		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, trace angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	2		-61.5 -62.0		
-63.5	8.0		SAND, silty, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 2", weak reaction with HCl, moist, 10YR 4/1 dark gray (SM)	NR	3		-63.5 -64.0		
-67.5	12.0		SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 2", weak reaction with HCl, moist, 10YR 4/1 dark gray (SP-SM)	NR	4		-67.5 -68.0		

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 = 948,559 Y = 1,079,484			ELEVATION TOP OF BORING -55.5 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-71.5	16.0																							
			CLAY, organic-L, mostly rounded silt, trace angular shell up to 1/4", trace quartz, weak reaction with HCl, moist, 10YR 6/1 gray (OL)																					
-73.3	17.8			NR																				
			SILT, inorganic-L, mostly rounded silt, trace clay, trace carbonate, strong reaction with HCl, moist, 10YR 8/1 white (ML)																					
-75.5	20.0						-75.5																	
			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-SM*</td> </tr> <tr> <td>3</td> <td>8.0/8.5</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</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	3.0/3.5	SP*	2	6.0/6.5	SP-SM*	3	8.0/8.5	SM*	4	12.0/12.5	SP-SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	6.0/6.5	SP-SM*																						
3	8.0/8.5	SM*																						
4	12.0/12.5	SP-SM*																						

Penetration Graph for Core No. VB-MCSP07-29, Run 1

Date: 8/12/2007
Start Time: 3:25:53 PM
End Time: 3:34:52 PM

Penetration: 19.74
Recovery: 20
W. D. Corrected: 55.5
W. D. Raw: 55.8

Easting: 948559
Northing: 1079484
Coord. System: FL East

Lat: 27d 18.0337' N
Long: 80d 5.9764' W
Datum: NAD-83

Comment:

