
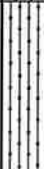


Boring Designation VB-MCSP07-35

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-MCSP07-35		LOCATION COORDINATES X = 952,653 Y = 1,080,217		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 -54.5 Ft.		17. TOTAL RECOVERY FOR BORING 95 %			
8. TOTAL DEPTH OF BORING 20.0 Ft.				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
-54.5	0.0		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", trace angular fine to medium-grained sand-sized organic matter, no reaction with HCl, moist, 10YR 7/2 light gray (SP)	633			-54.5		
				NR	1		-57.5		
							-58.0		
				NR					
			At El. -60.4 Ft., little angular shell up to 1/2", weak reaction with HCl, moist, 10YR 5/1 gray	NR	2		-60.5		
				NR			-61.0		
-62.5	8.0		SAND, poorly-graded with silt, mostly subrounded fine to medium-grained sand-sized quartz, little angular shell up to 1/2", weak reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	3		-62.5		
				NR			-63.0		
			At El. -66.1 Ft., mostly rounded fine-grained sand-sized quartz, trace angular shell up to 1/4", weak reaction with HCl, moist, 10YR 5/1 gray	NR	4		-66.5		
							-67.0		
-68.8	14.3		CLAY, lean, mostly rounded silt, some angular shell up to 2", trace carbonate,						

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 = 952,653 Y = 1,080,217				ELEVATION TOP OF BORING -54.5 Ft.																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE															
-71.1	16.6		strong reaction with HCl, moist, 10YR 5/1 gray (CL)	NR																			
-73.5	19.0		SAND, silty, mostly subangular fine to medium-grained sand-sized quartz, little angular shell up to 1/2", weak reaction with HCl, moist, 10YR 4/1 dark gray (SM)																				
-74.5	20.0	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>8.0/8.5</td> <td>SP-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*	3	8.0/8.5	SP-SM*	4	12.0/12.5	SP-SM*				-74.5	
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	3.0/3.5	SP*																					
2	6.0/6.5	SP*																					
3	8.0/8.5	SP-SM*																					
4	12.0/12.5	SP-SM*																					
			Abbreviations: NR = Not Recorded.																				

Penetration Graph for Core No. VB-MCSP07-35, Run 1

Date: 8/12/2007
Start Time: 11:53:41 AM
End Time: 11:59:51 AM

Penetration: 18.83
Recovery: 19
W. D. Corrected: 54.5
W. D. Raw: 55.7

Easting: 952653
Northing: 1080217
Coord. System: FL East

Lat: 27d 18.1489' N
Long: 80d 5.2174' W
Datum: NAD-83

Comment:

