

DRILLING LOG		Hole No. SM-9	
1. PROJECT Cumberland Shoals Project		2. LOCATION (if on chart or station) X=512131.400 Y=2319795.600	
3. DRILLING AGENCY AOSS/Olsen & Associates, Inc.		4. HOLE NO. (as shown on drawing title and file number) SM-9	
5. NAME OF DRILLER L. Olsen		6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	
7. THICKNESS OF BURDEN (ft.)		8. TOTAL DEPTH OF HOLE (ft.)	
9. DEPTH DRILLED INTO ROCK (ft.)		10. SIZE AND TYPE OF BIT: 4" VIBROCORE	
11. DATE FOR ELEVATION SHOWN (DD-M-YY) MILW		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBROCORE	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0		14. TOTAL NUMBER OF CORE BOXES: 2	
15. ELEVATION OF GROUND WATER		16. DATE HOLE STARTED: 4-4-02	
17. DATE HOLE COMPLETED: 4-4-02		18. ELEVATION TOP OF HOLE: -18.0 ft.	
19. TOTAL CORE RECOVERY FOR BORING: 100%		20. ESTIMATE OF G. Zentz, SEA, Inc.	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
0.0	0					
1.8	.9		Gray to light gray medium to fine quartz sand, gray to light gray whole shells and shell fragments. 10 YR 7/0.5-7/1 (SP)	100	0.5	-18.8
12.0	1.9		Gray to light gray fine quartz sand, abundant whole shells and shell fragments in fine to medium gravel range. 10 YR 7/1 (SP)	100	1.5	
20.9	4.0		Gray fine quartz sand, interbedded with dark gray plastic clay. 10 YR 7/1 (SW)	100	3.0	
21.7	4.4		Light gray to gray medium to fine quartz sand, trace of dark minerals and plastic clay. 10 YR 7/1 (SP)	100	5.0	-21.8
22.1	5.2		Dark gray plastic clay, thin layers of fine gray quartz sand. 10 YR 2/1 (CL)	100	6.0	
22.6	5.7		Light gray to gray fine quartz sand, mixed with gray shell fragments and whole shells in fine to medium gravel range. 10 YR 7/1-8/1 (SP)	100	8.0	
23.7	6.0		Gray fine quartz sand mixed with thin layers of dark plastic clay, gray to brown whole shells and shell fragments in medium to fine gravel range. 10 YR 6/1 (SW)	100	10.0	-23.8
24.1	7.2		Gray to light gray medium to fine quartz sand, very abundant light brown to gray whole shells and shell fragments in fine to coarse gravel range. 10 YR 6.5/1 (SW)	100	12.0	
30.4	13.5		Gray to light brownish gray fine quartz sand, interbedded with thin layers of gray plastic clay. 10 YR 7/1-7/0.5 (SP)	100	13.5	-30.4
			Gray to light gray fine quartz sand, very abundant layers of gray to light gray shell fragments in fine to coarse gravel range, scattered thin layers of gray plastic clay. 10 YR 7/0.5-7/1 (SW)			

Composite-1 0-5.0 ft.

Composite-2 0-12.0 ft.

Revised 7/29/02