

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Howards Mill, N. C.	SHEET 1 OF 4 SHEETS
1. PROJECT Howards Mill Lake		10. SIZE AND TYPE OF BIT 1 3/8" ID S.S., 4"x5 1/2" Dia Bit		
2. LOCATION (Coordinates or Station) Site 2 Sta 3+06.5' LT Baseline		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL		
3. DRILLING AGENCY Mobile District		12. MANUFACTURER'S DESIGNATION OF DRILL Falling 314		
4. HOLE NO. (As shown on drawing title and file number) 2-3		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		
5. NAME OF DRILLER Parker		14. TOTAL NUMBER CORE BOXES 7		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER 379.3 22 April 73		
7. THICKNESS OF OVERBURDEN 28.0'		16. DATE HOLE STARTED 19 March 73 COMPLETED 23 March 73		
8. DEPTH DRILLED INTO ROCK 45.0'		17. ELEVATION TOP OF HOLE 395.3		
9. TOTAL DEPTH OF HOLE 73.0'		18. TOTAL CORE RECOVERY FOR BORING 91		
		19. SIGNATURE OF INSPECTOR : Merritt Geologist : Siesen		

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			CL - Red & tan silty clay (SAD Lab. Class. Samp. 1, CH)	24.1%	1	
	5'		Undisturbed sample 2.0'-4.0'			
	10'		ML - Tan & gray silt w/decomposed rock (SAD Lab. Class. Samp. 2, ML)	22.2%	2	
	15'		Undisturbed sample 10.0'-11.5'			
W.T. 16.0'				19.6%	3	
4/22/73			(SAD Lab. Class. Samp. 3, ML)			
	20'			18.5%	4	
			(SAD Lab. Class. Samp. 4, MH)			
	25'		TOP OF ROCK 28.0'			
367.3			Sericite schist, light gray, fine grained	36	Box 1	Pull 1 28.0'-32.2' Run 4.2' Rec 1.5'
	30'		Continued on sheet 2			
NOTE: Soils field in accordance with Soil Classification System.		classified the Unified Soil Classification System.		66	BLOWS PER FOOT: Number required to drive 1 3/8" ID spitspoon w/140 lbs. hammer falling 30".	

Change to 4"x5 1/2" core barrel @ 28.0'

50/0.5'
88/0.5'

1 SHEETS
 5 1/2"
 t
 URRED
 1 73
 h 73
 %
 100
 3
 6
 13
 16
 53
 70
 97
 46
 81
 63
 70
 65
 71
 68
 73
 76
 78
 0.5'
 0.5'

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE 395.3		Hole No. 2-3				
PROJECT Howards Mill Lake			INSTALLATION Howards Mill, N. C.		SHEET 2 OF 4 SHEETS			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) R		
	30'		Sericite schist, tan to gray, fine grained, near horizontal bedding, highly weathered, soft, badly broken on bedding planes	36		Pull 1 Continued CL 2.7' Core washed away Note: Scale change @ 30.0'		
	32'					Pull 2 32.2'-35.4' Run 3.2' Rec 2.9' CL 0.3'		
	34'			Light gray, slightly weathered below 32.2'		91	1	Core washed away 33.5'-33.9' to SAD Lab
	36'			Very soft, badly shattered from 32.2' to 43.7'		100		Pull 3 35.4'-38.3' Run 2.9' Rec 2.9' CL 0.0'
	38'							Pull 4 38.3'-41.8' Run 3.5' Rec 3.5' CL 0.0'
	40'		Soft to moderately hard, slightly to moderately weathered	100	Box 2	Pull 5 41.8'-43.7' Run 1.9' Rec 1.9' CL 0.0'		
	42'					Pull 6 43.7'-46.5' Run 2.8' Rec 2.8' CL 0.0'		
351.6	44'			TOP OF FIRM ROCK 43.7'		100	3	
	46'					Continued on sheet 3		

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE 395.3		Hole No. 2-3			
PROJECT Howards Mill Lake			INSTALLATION Howards Mill, N. C.		SHEET 3 OF 4 SHEETS		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	46'		Sericite schist, light gray, fine grained, 30° bedding, slightly weathered, moderately hard across bedding, soft on bedding planes, broken on bedding (machine breaks), 0.2'-0.5' pieces of core	100		Pull 6 Continued	
	48'			Net	Box	Pull 7 46.5'-51.0' Run 4.5' Rec 3.7' CL 0.8'	
	50'			87	3	0.6' Ground & wasted 0.2' Carry over to next pull	
	52'					100	Pull 8 51.0'-54.2' Run 3.2' Rec 3.2' CL 0.0'
	54'						Pick up 0.2' from previous pull Carry over 0.2' to next pull
	56'						Pull 9 54.2'-58.8' Run 4.6' Rec 4.4' CL 0.2'
	58'					96	Pick up 0.2' from previous pull 0.2' Ground & washed Carry over 0.2' to next pull
	60'						Pull 10 58.8'-63.3' Run 4.5' Rec 4.3' CL 0.2'
	62'					96	Pick up 0.2' from previous pull 0.2' ground up
				Continued on sheet 4			

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE 395.3		Hole No. 2-3.	
PROJECT Howards Mill Lake			INSTALLATION Howards Mill, N. C.			SHEET 4 OF 4 SHEETS
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	62'		Sericite schist, gray, fine grained, 30° bedding, siliceous layers on bedding planes, slightly weathered to fresh, soft to very hard, broken on bedding planes (0.1'-0.5' pieces)	96	Box	Pull 10 Continued Carry over 0.2' to next pull
	64'			5	Net	Pull 11 63.3'-68.0' Run 4.7' Rec 4.7' CL 0.0'
	66'			100	Net	Pick up 0.2' from previous pull
	68'			Box	6	Carry over 0.2' to next pull 67.5'-68.0' to SAD Lab
	70'			Net	6	Pull 12 68.0'-73.0' Run 5.0' Rec 5.0' CL 0.0'
	72'			Box	7	Left 0.2' in hole
322.3						96
			Bottom of drilled hole 73.0' Bottom of logged hole 72.8'			

SAD FORM 1417-B
7 MAY 73

TABLE 1 Classification of material, mineral composition, and texture description and remarks regarding petrographic testing.

Lab and/or Field No.	Classification of Material	Percent Mineral Composition	Description and Remarks
246/1 Hole 1-3 35.3-35.6 ft. depth	Phyllite	30 Sericite 30 Quartz 20 Chlorite 10 Kaolinite 5 Feldspar 3 Pyrite 2 Other	Silvery grey, satin lustered, foliated, fine grained, fresh, phyllite. Chlorite, sericite, and cryptocrystalline quartz bands occur parallel to shearing. Pyrite disseminations and local lensoid units, parallel to schistosity range up to 3mm size and constitute the largest grain size.
246/2 Hole 1-6 42.2-42.7 ft. depth	Meta-Felsite Tuff (Cataclasite)	25 Quartz 25 Epidote 20 Sericite 20 Chlorite 5 Feldspar 3 Calcite 2 Other	Yellowish-greenish grey, cataclastic textured, altered fesite tuff. Epidote is a widespread alteration product of feldspar phenocrysts and imparts the yellowish color to the rock. Granulated epidote and relic feldspar particles are rotated with "augen" structure. Local lensoid units of quartz are highly granulated with crush trails. Chlorite and sericite are highly sheared and foliated in the groundmass.
246/3 Hole 2-3 33.5-33.9 ft. depth	Sericite Schist	40 Sericite 20 Chlorite 10 Kaolinite 18 Quartz 7 Feldspar 2 Pyrite 3 Other	Silvery grey, very fine grained, foliated, soft, schistose sericite schist. The rock is highly sheared parallel to schistosity. Trace amounts of pyrophyllite occurs locally along slickenside surfaces. Pyrite occurs as disseminations and in local discontinuous stringers parallel to schistosity.

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MO-C-1-73

Project Howards Mill Lake, N. C. Req'n No. SAWEO-75-189 W.O. NO. 8097

Sheet 1 of 4

ROBBINS, NC (7.5' QUAD)
N352944, W793443

MD-C-1-73

MD-C-2-73

