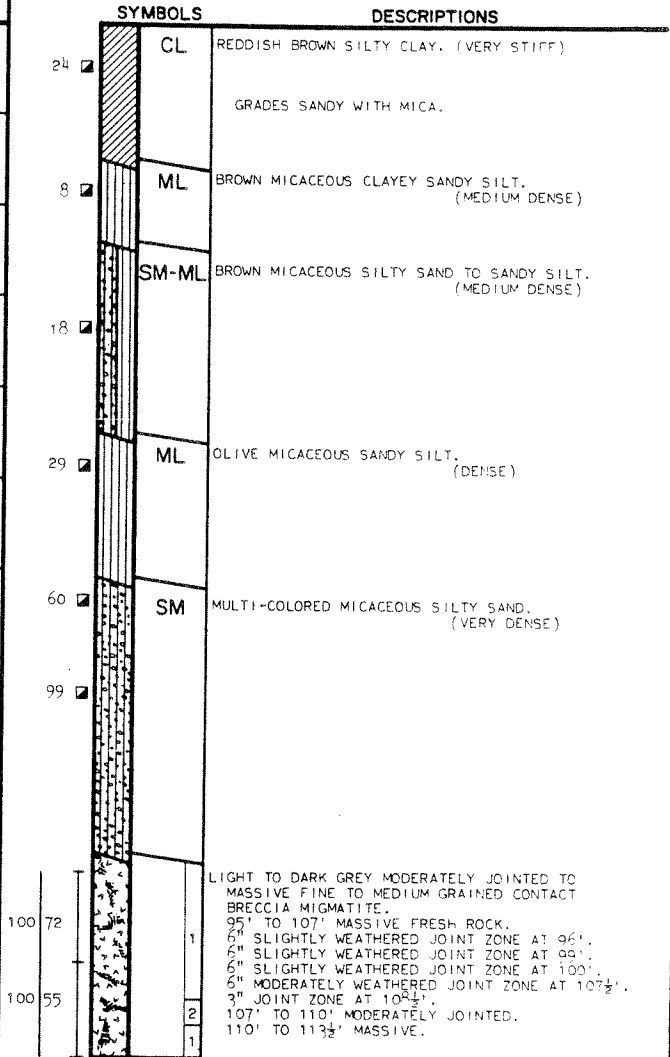


BORING C-21

SURFACE ELEVATION 432.9
 CO-ORDINATES N 472,726.77
 E 1,904,793.5

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							



BORING TERMINATED 5--72.

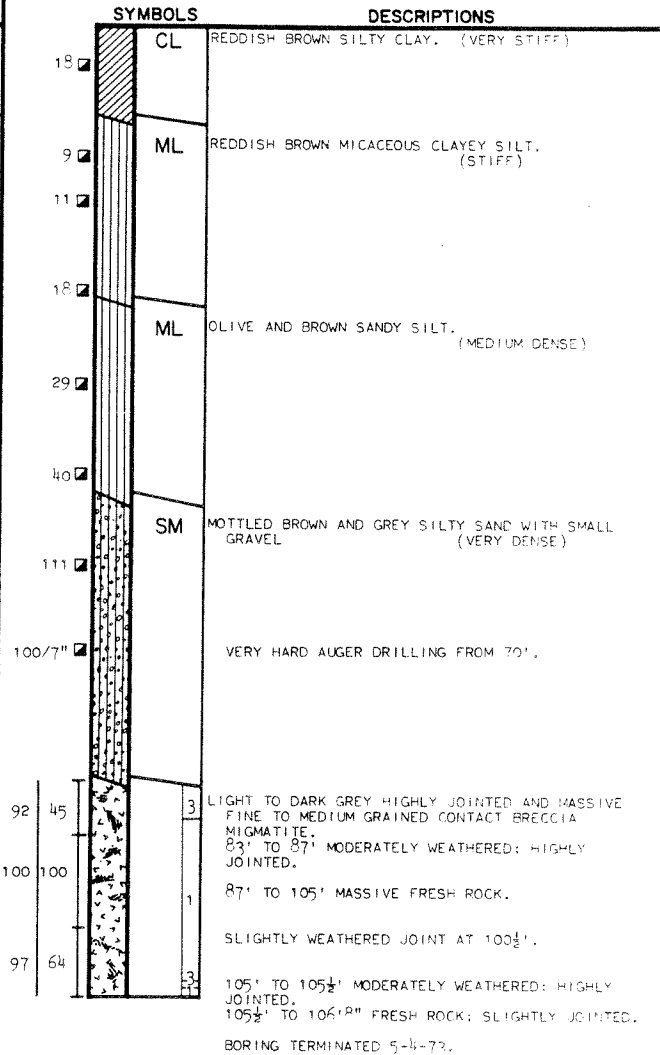
NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.
 ■ INDICATES STANDARD PENETRATION TEST.

LOG OF BORING C-21

BORING C-22

SURFACE ELEVATION 426.3
 CO-ORDINATES N 4,727.77
 E 1,904,855.5

OTHER TESTS	DIRECT SHEAR DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						



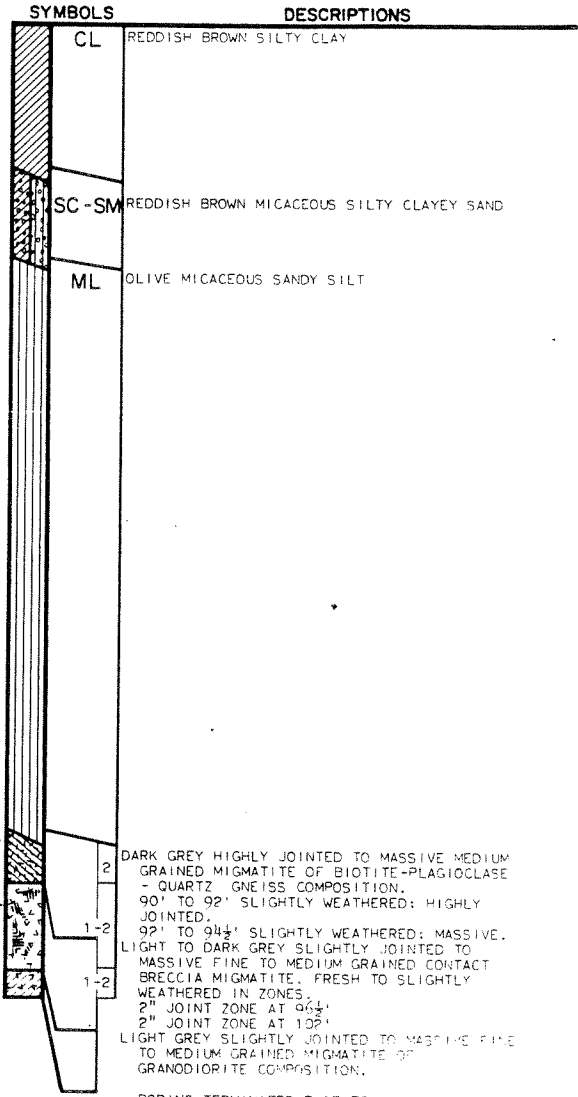
NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.
 ■ INDICATES STANDARD PENETRATION TEST.

LOG OF BORING C-22

BORING C-23

SURFACE ELEVATION 478.8
 CO-ORDINATES N 472,521.50
 E 1,904,565.00

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									



BORING TERMINATED 5-15-73.

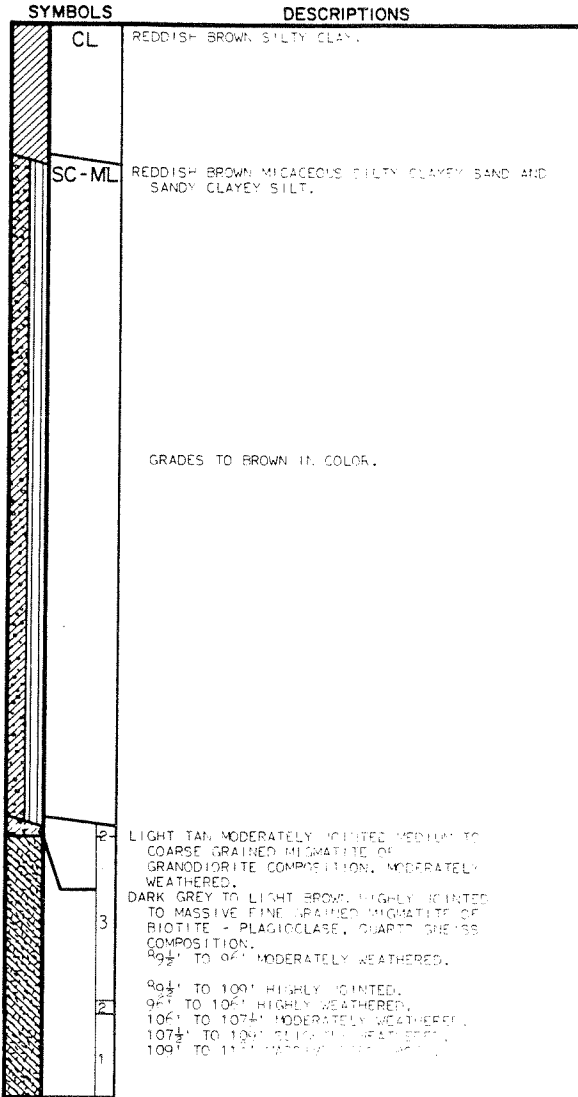
NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.

LOG OF BORING C-23

BORING C-24

SURFACE ELEVATION 488.5
 CO-ORDINATES N 472,854.25
 E 1,004,565.00

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							



BORING TERMINATED 8-1-80.

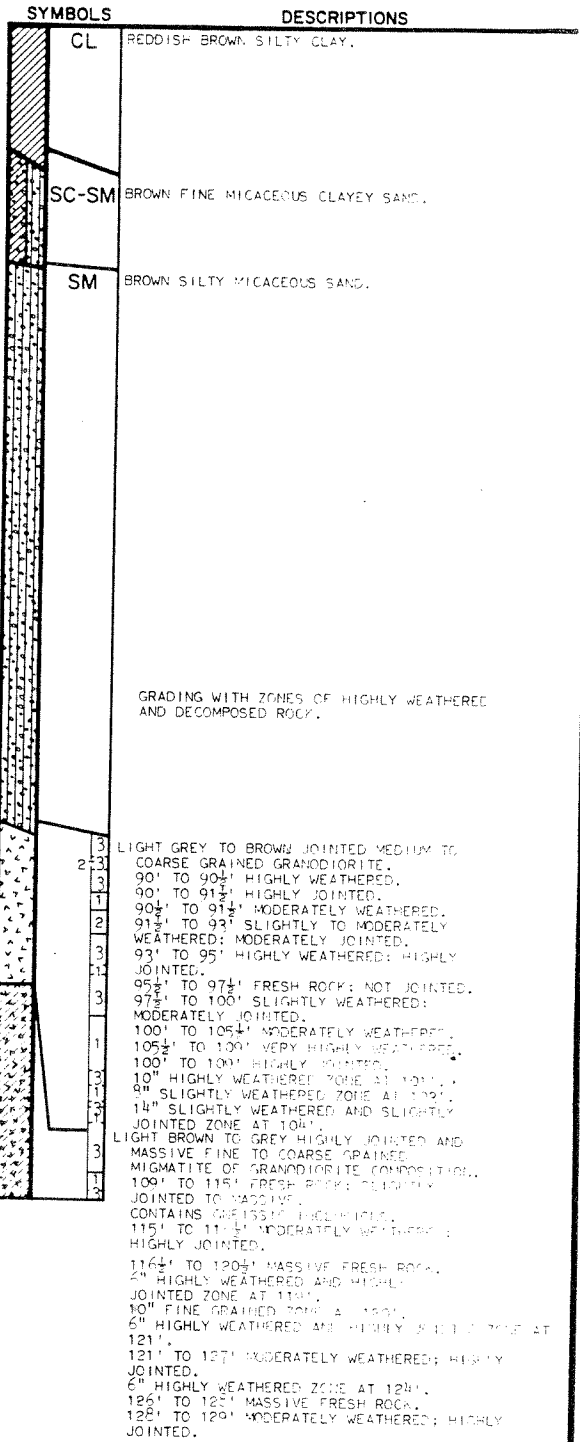
NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.
 ■ INDICATES STANDARD PENETRATION TEST.

LOG OF BORING C-24

BORING C-25

SURFACE ELEVATION 471.1
 CO-ORDINATES N 472,509.50
 E 1,904,691.63

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							



BORING TERMINATED 5-27-85.

NOTE:
 BORING DRILLED WITH ROTARY WASH RIG.
 WATER LEVEL NOT MEASURED.

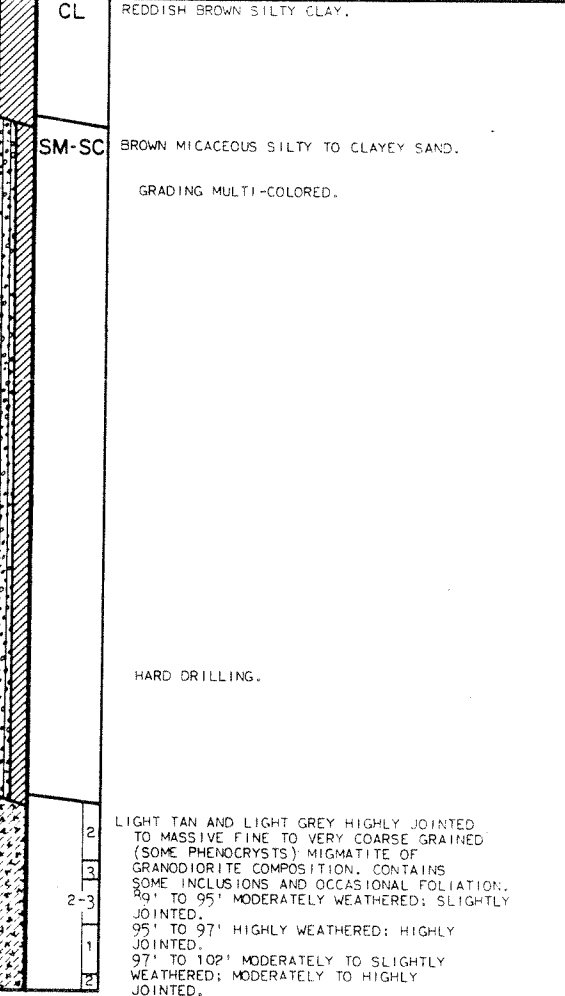
LOG OF BORING C-25

BORING C-26

SURFACE ELEVATION 461.9
 CO-ORDINATES N 472,509.25
 E 1,904,799.25

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAIXAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									

SYMBOLS DESCRIPTIONS



LIGHT TAN AND LIGHT GREY HIGHLY JOINTED TO MASSIVE FINE TO VERY COARSE GRAINED (SOME PHENOCRYSTS) MIGMATITE OF GRANODIORITE COMPOSITION. CONTAINS SOME INCLUSIONS AND OCCASIONAL FOLIATION. 99' TO 95' MODERATELY WEATHERED; SLIGHTLY JOINTED. 95' TO 97' HIGHLY WEATHERED; HIGHLY JOINTED. 97' TO 102' MODERATELY TO SLIGHTLY WEATHERED; MODERATELY TO HIGHLY JOINTED. 102' TO 104' MASSIVE FRESH ROCK. 104' TO 107½' SLIGHTLY WEATHERED; MASSIVE. 2" MODERATELY WEATHERED JOINTED ZONE AT 104½'. 107½' TO 109' 3" SLIGHTLY WEATHERED; HIGHLY JOINTED.

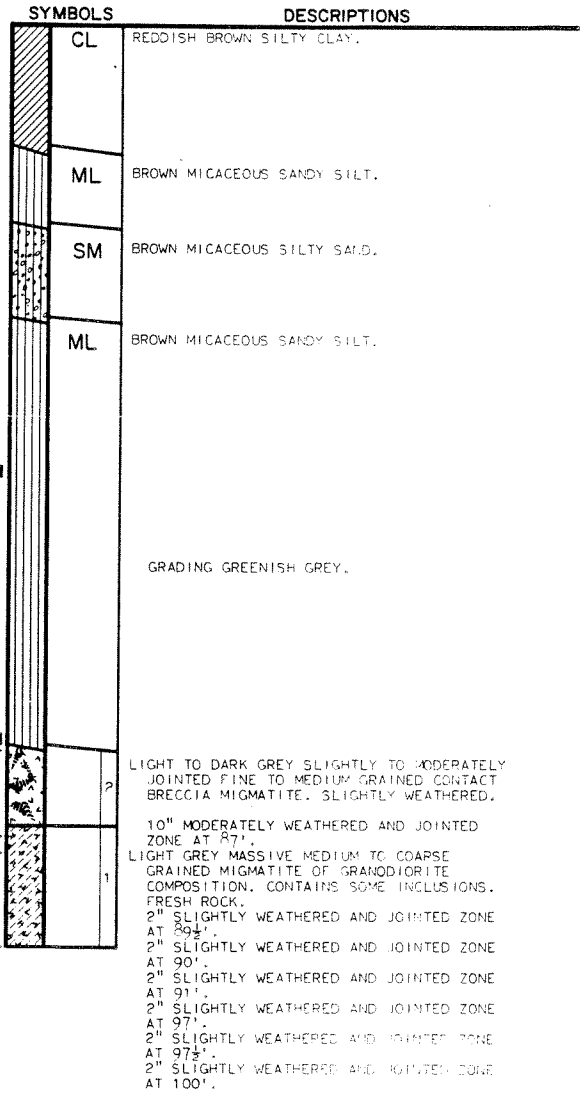
BORING TERMINATED 5-10-73.
 NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.
 ■ INDICATES STANDARD PENETRATION TEST.

LOG OF BORING C-26

BORING C-27

SURFACE ELEVATION 461.3
 CO-ORDINATES N 472.422, 50
 E 1.904, 873.75

OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						



BORING TERMINATED 5-9-79.

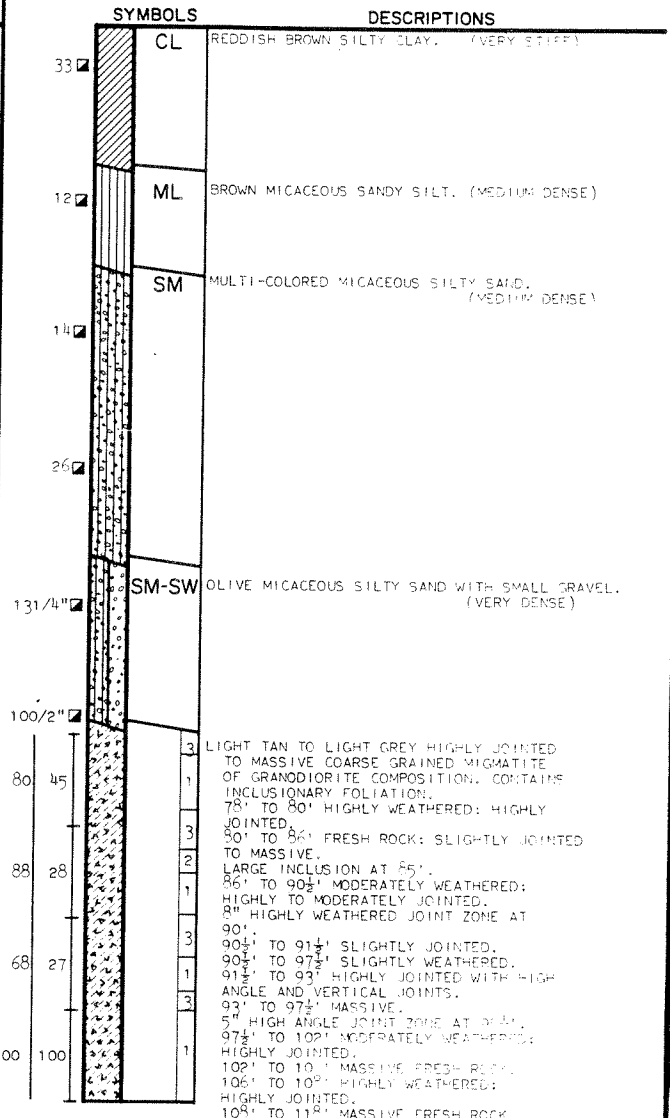
NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.
 ■ INDICATES STANDARD PENETRATION TEST.

LOG OF BORING C-27

BORING C-28

SURFACE ELEVATION 447.2
 CO-ORDINATES N 472,579.0
 E 1,904,026.75

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS./CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							



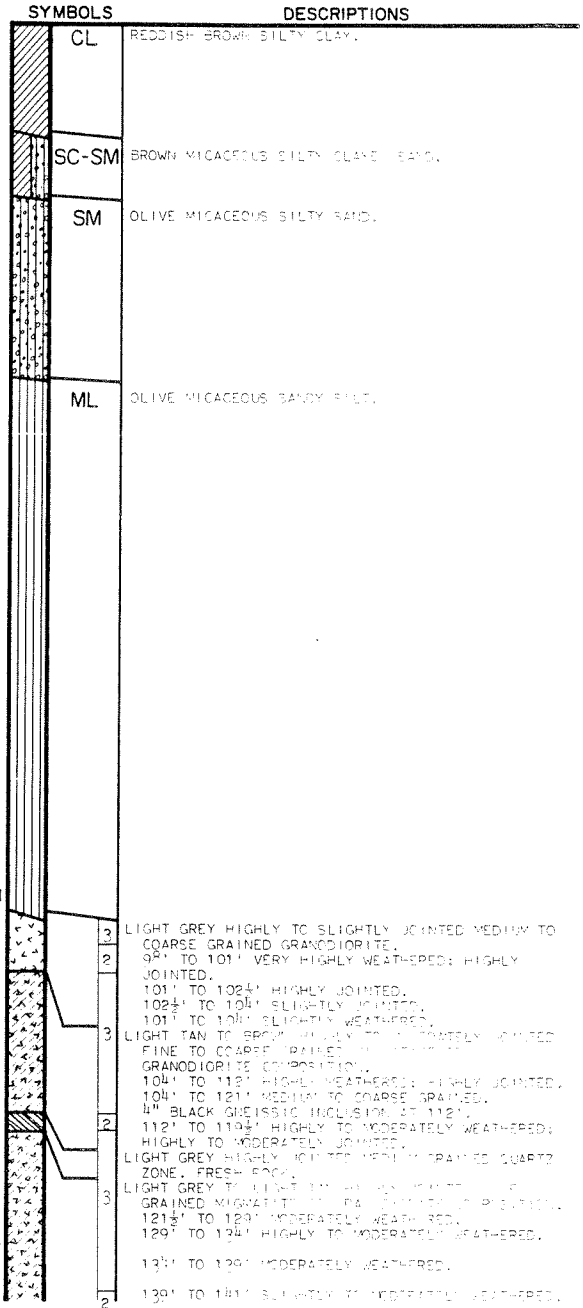
BORING TERMINATED F-1-79.
 NOTE:
 BORING DRILLED WITH HOLLOW-STEM AUGER RIG.
 WATER LEVEL NOT MEASURED.
 ■ INDICATES STANDARD PENETRATION TEST.

LOG OF BORING C-28

BORING C-29

SURFACE ELEVATION 477.0
 CO-ORDINATES N 472,454.25
 E 1,904,491.43

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									

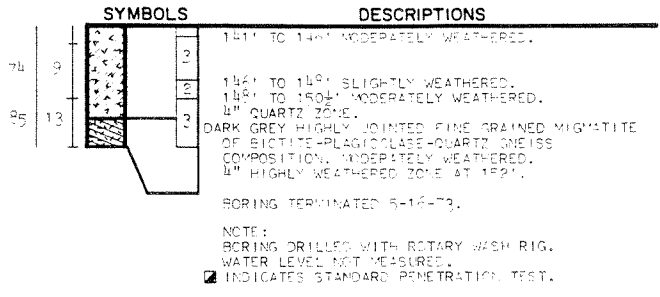


BORING CONTINUED

LOG OF BORING C-29

BORING C-29 CONT'D

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							

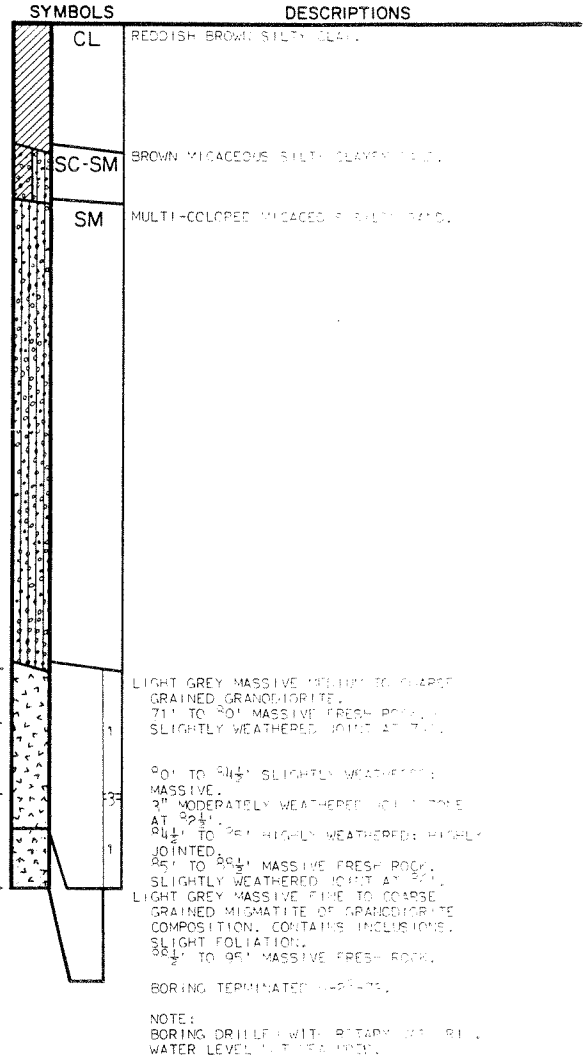


LOG OF BORING C-29

BORING C-30

SURFACE ELEVATION 544.0
 CO-ORDINATES N 472,444.25 E 1,904,791.00

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		TRIAxIAL COMPRESSION TEST		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							



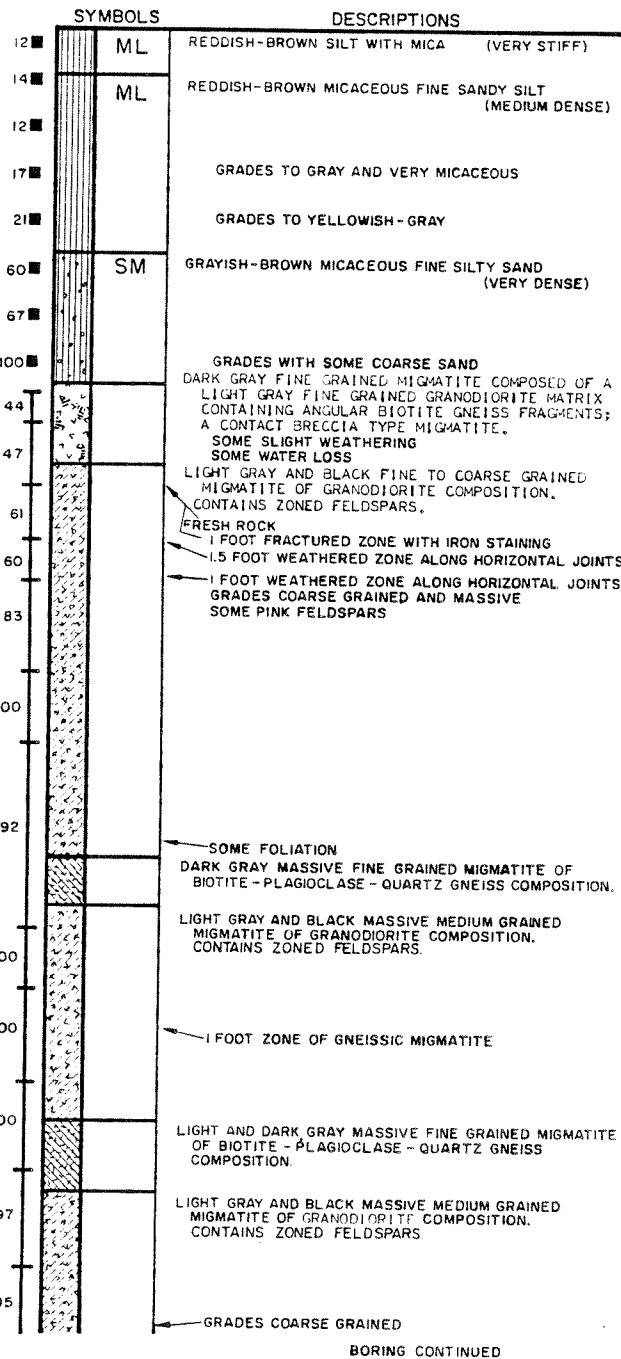
LOG OF BORING C-30

BORING N-14

SURFACE ELEVATION 462.9
 COORDINATES N 471,336.9
 E 1,904,102.5

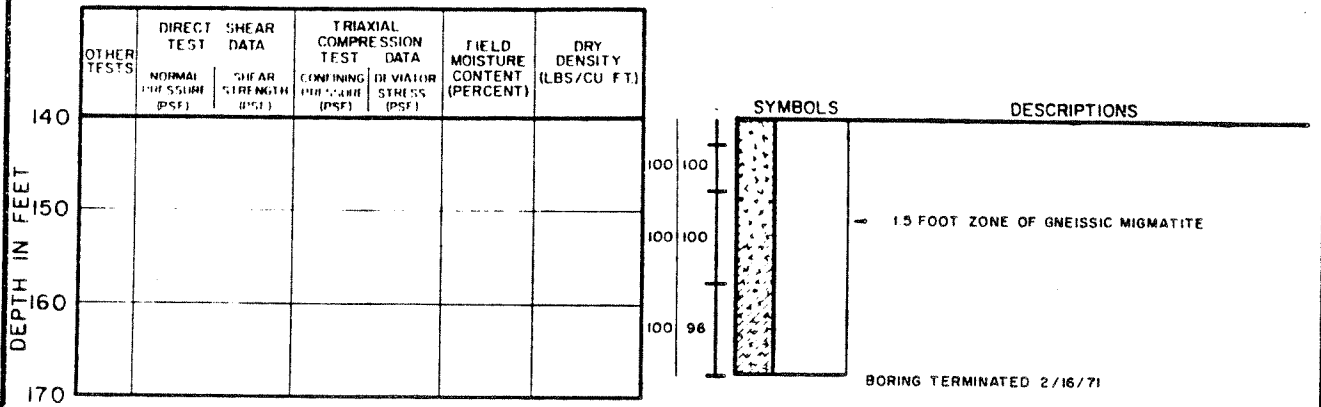
DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10	B			1500*	4630*	29	85
				3000*	7220*	22	88
				6000*	8300*		
20		1500*	1240*			21	92
		3000*	2160*				
30		500*	1580*			22	86
		5000*	3320*				
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							

*EFFECTIVE STRESS PARAMETER



LOG OF BORING N-14

BORING N-14 (CONTD.)



NOTES:

1. ELEVATIONS REFER TO MEAN SEA LEVEL DATUM.
 2. CO-ORDINATES REFER TO SOUTH CAROLINA CO-ORDINATE SYSTEM.
 3. LABORATORY TESTS ARE DISCUSSED IN THE TEXT.
 4. FOR THE KEY OF SYMBOLS REFER TO FIGURE 2.5.1-89.
 5. "A" INDICATES GRAIN SIZE TEST RESULTS PRESENTED ON FIGURES 2.5.1-104 THROUGH 2.5.1-107.
 6. "B" INDICATES CONSOLIDATION TEST RESULTS PRESENTED IN FIGURES 2.5.1-95 THROUGH 2.5.1-103.
 7. "L" INDICATES ATTERBERG LIMIT EVALUATION RESULTS PRESENTED ON TABLE 2.5.1-5.
 8. "p" INDICATES PERMEABILITY EVALUATION RESULTS PRESENTED ON TABLE 2.5.1-4.
 9. STRENGTH PARAMETERS IDENTIFIED WITH *STARS, ARE EFFECTIVE STRESS; OTHERS REFLECT TOTAL STRESS.
- ** NOT USED TO IDENTIFY TESTS ON "N"-SERIES BORINGS.

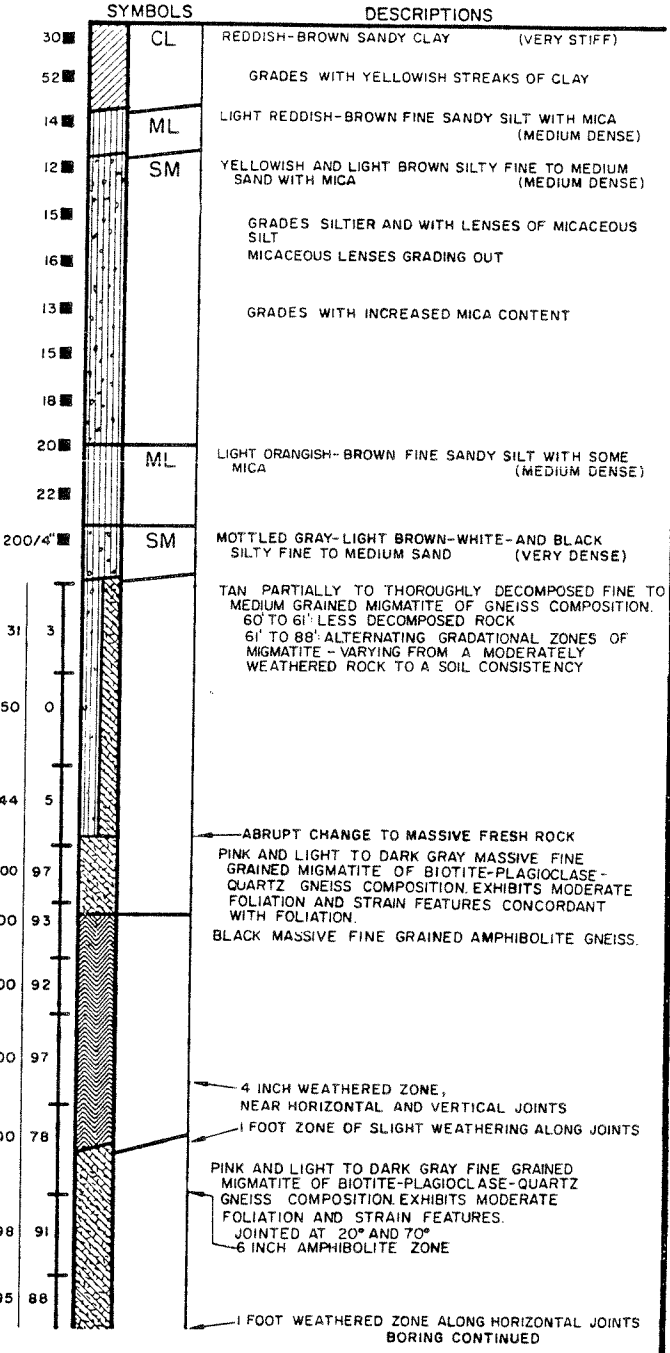
LOG OF BORING N-14

BORING N-15

SURFACE ELEVATION 493.9
 COORDINATES N 472,012.2
 E 1,904,156.9

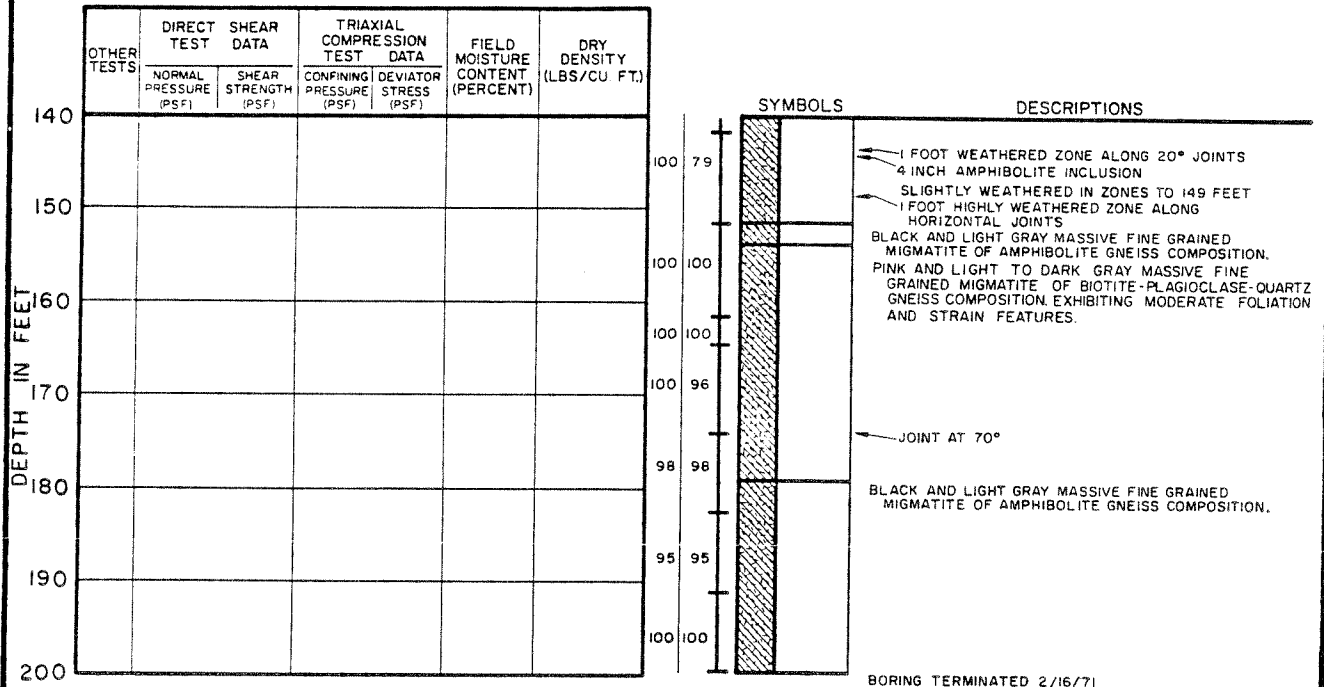
DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30		500*	600*			15	95
		3000*	2320*			15	96
40		1000	1420			15	98
		5000	4550				
50	B					23	91
60							
70							
80							
90							
100							
110							
120							
130							
140							

*EFFECTIVE STRESS PARAMETER



LOG OF BORING N-15

BORING N-15 (CONTD)



BORING TERMINATED 2/16/71
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

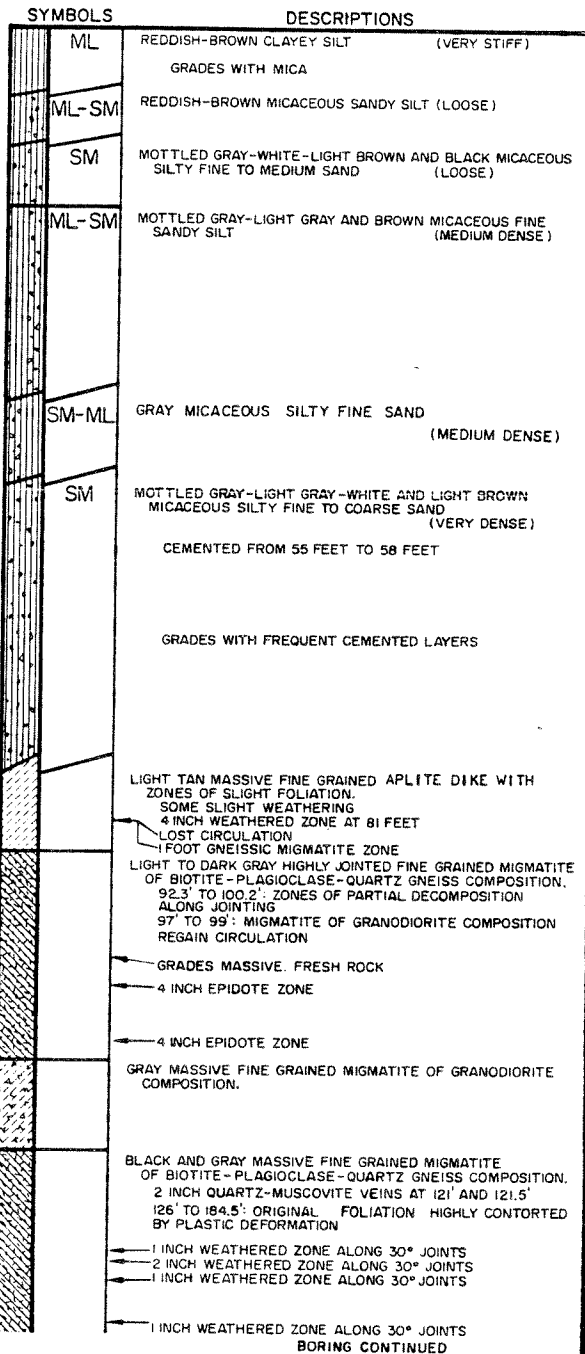
GROUND WATER LEVEL AT DEPTH 85.4 FEET, ON 3-29-71.

LOG OF BORING N-15

BORING N-16

SURFACE ELEVATION 439.4
 COORDINATES N 471,438.8
 E 1,905,353.3

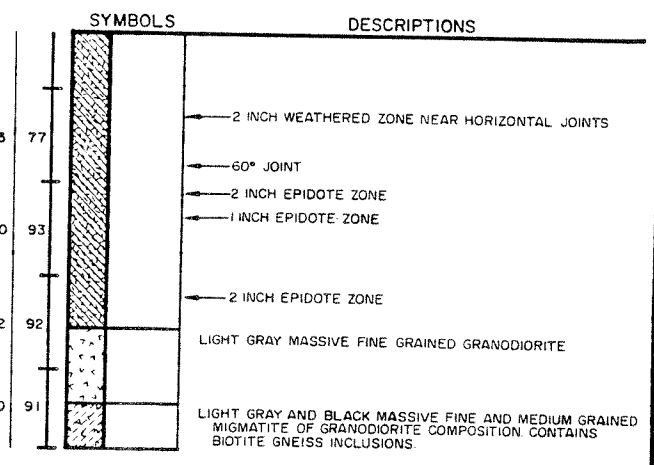
DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0	B					23	94
10							
20							
30		2000 5000	1950 3670			22 21	88 94
40		2000 5000	2000 3700			25 23	89 94
50						11	106
60							
70							
80							
90							
100							
110							
120							
130							
140							



LOG OF BORING N-16

BORING N-16 (CONTD)

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							
180							
190							



BORING TERMINATED 2/23/71
 SAMPLER DRIVEN WITH A 300LB WEIGHT FALLING 30 INCHES.

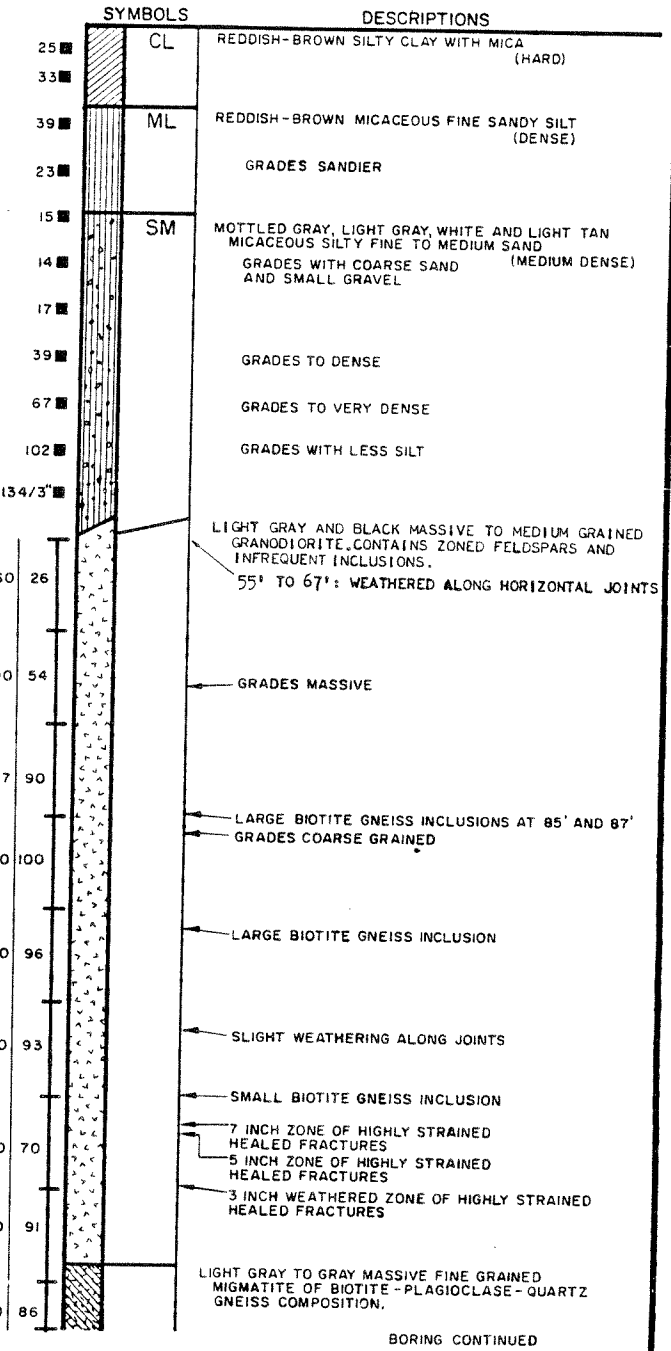
GROUND WATER LEVEL AT DEPTH 58.3 FEET, ON 3-29-71.

LOG OF BORING N-16

BORING N-17

SURFACE ELEVATION 440.6
 COORDINATES N 472,981.8
 E 1,903,775.1

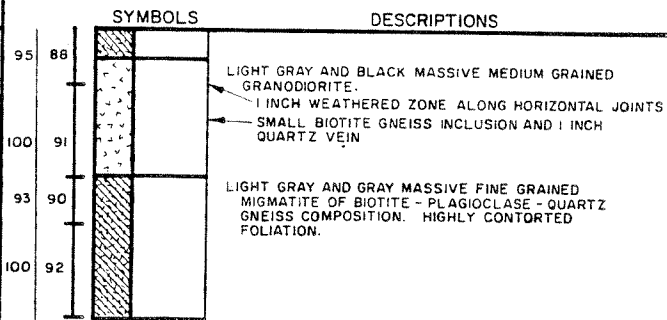
DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0				0	4260	32	90
				0	4960	25	94
10							
20	B					20	88
30						13	101
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



LOG OF BORING N-17

BORING N-17 (CONTD)

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							
180							



BORING TERMINATED 2/23/71
 SAMPLER DRIVEN WITH A 300LB. WEIGHT FALLING 26 INCHES.

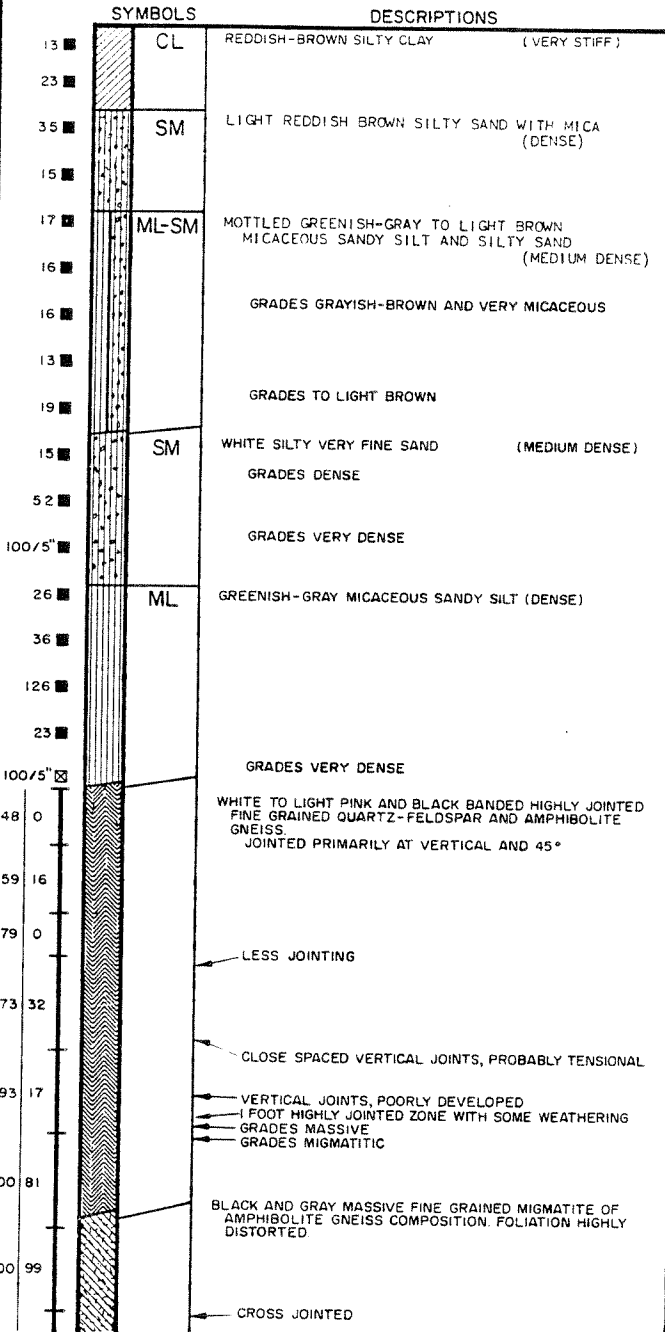
GROUND WATER LEVEL AT DEPTH 61.8 FEET, ON 3-29-71.

LOG OF BORING N-17

BORING N-18

SURFACE ELEVATION 456.5 FEET
 COORDINATES N 470,667.4
 E 1,903,596.4

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						25	95
				0	6230	25	100
10	A	1000 6000	2.30 5830			24 24	96 94
20	B					20	89
30	A						
40							
50	A						
60	B					27 28	91 95
70							
80	A					29	96
90							
100							
110							
120							
130							
140							

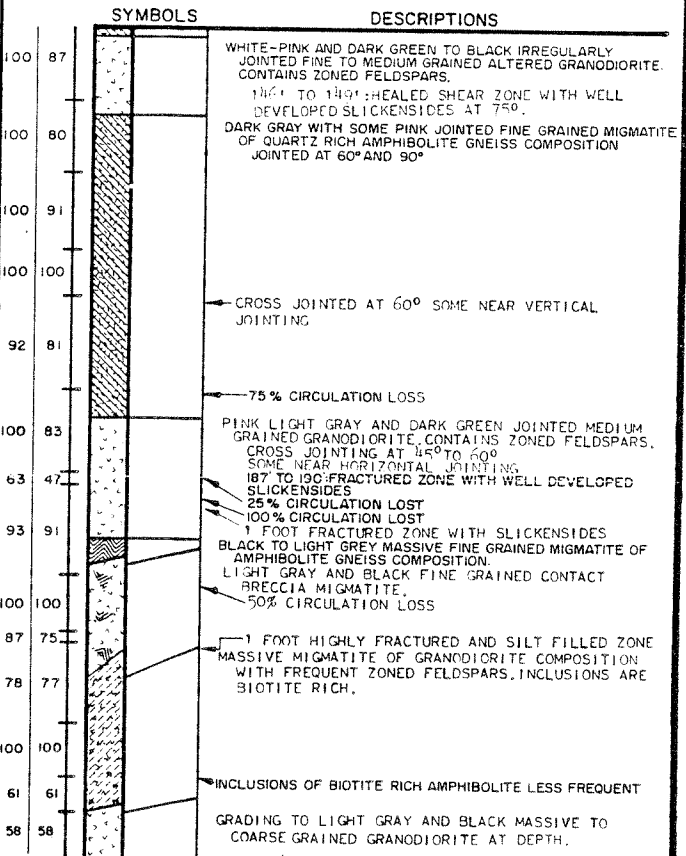


BORING CONTINUED

LOG OF BORING N-18

BORING N-18 (CONTD.)

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
140									
150									
160									
170									
180									
190									
200									
210									
220									
230									
240									



BORING TERMINATED 3/4/77

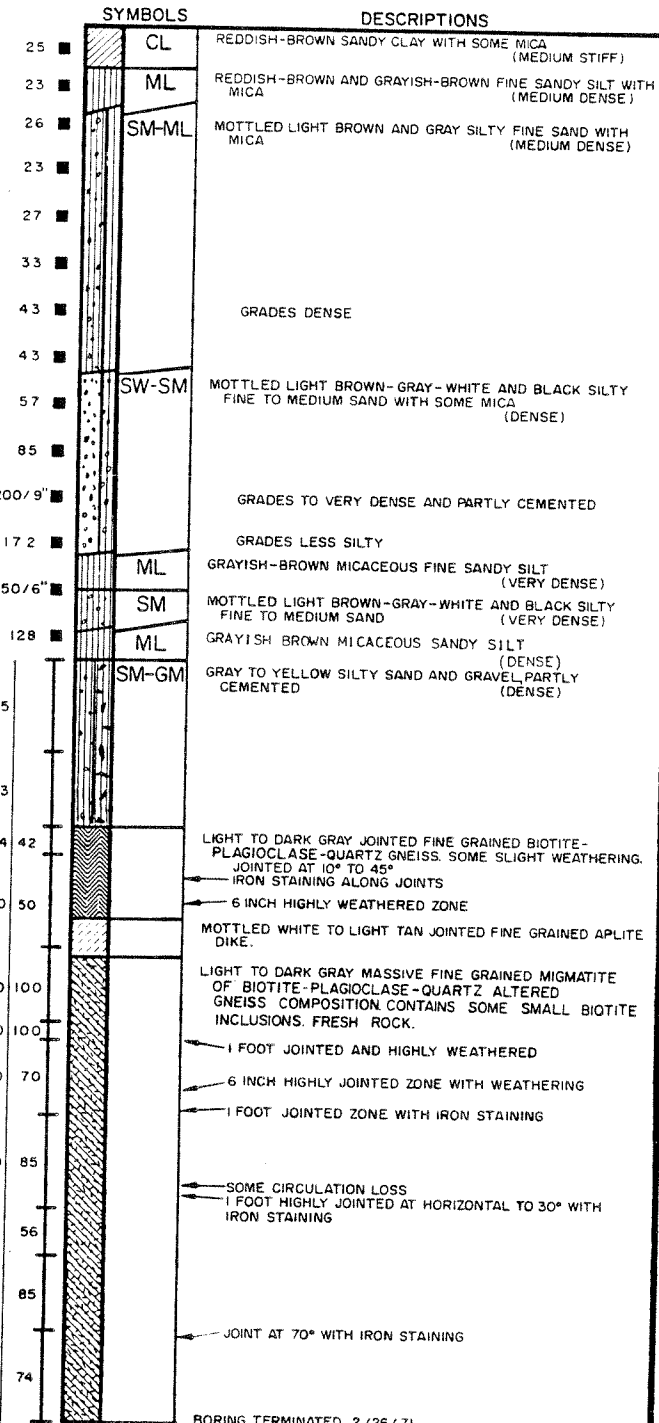
NO GROUND WATER LEVEL AVAILABLE

LOG OF BORING N-18

BORING N-19

SURFACE ELEVATION 4864
 COORDINATES N 472,378.8
 E 1,904,260.3

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						28	93
10						20	93
20							
30		2000	2300			15	93
40	A					13	99
50		5000	4500			12	108
60							
70	A B	4000	3400			31	93
80							
90							
100							
110							
120							
130							
140							
150							



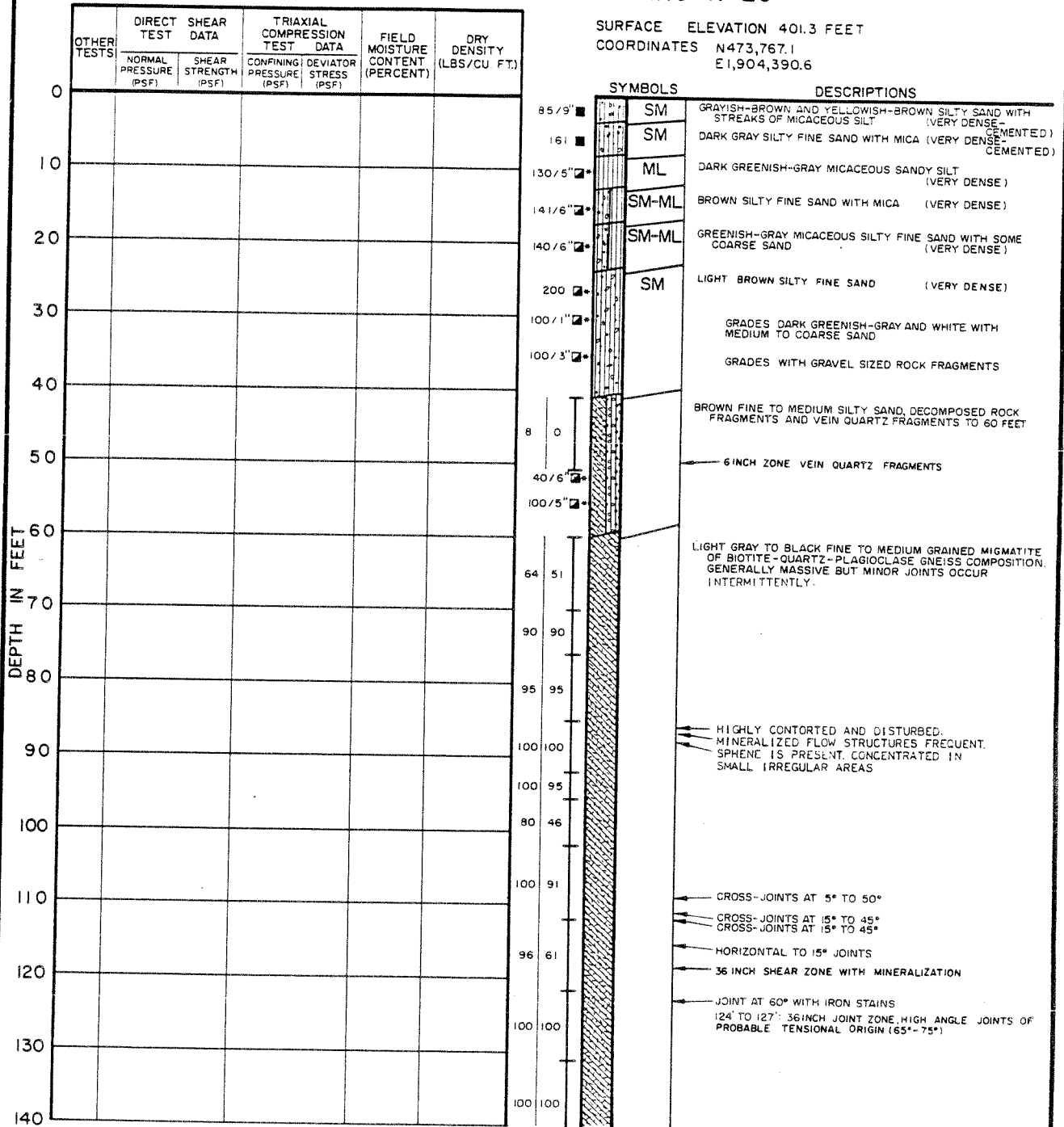
BORING TERMINATED 2/26/71
 SAMPLER DRIVEN BY A 140 LB WEIGHT FALLING 30 INCHES.

GROUND WATER LEVEL AT DEPTH 86.3 FEET, ON 3-29-71.

LOG OF BORING N-19

BORING N-20

SURFACE ELEVATION 401.3 FEET
 COORDINATES N473,767.1
 E1,904,390.6



BORING CONTINUED

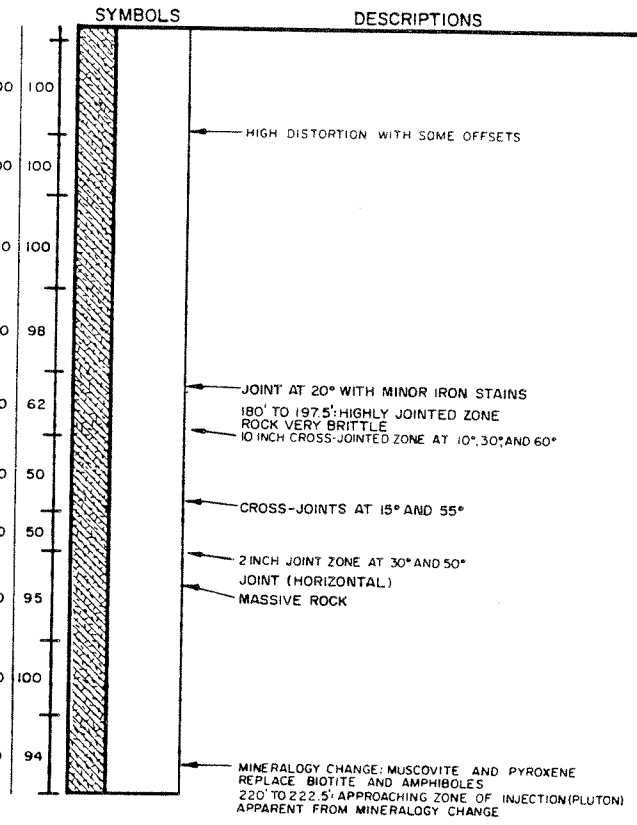
LOG OF BORING N-20

Amendment 0
 August 1984

Figure 2E-17

BORING N-20 (CONTD.)

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							
180							
190							
200							
210							
220							
230							



BORING TERMINATED 3/4/71
 SAMPLER DRIVEN WITH A 300LB WEIGHT FALLING 28 INCHES, EXCEPT, * REFERS TO SAMPLER DRIVEN WITH A 140LB WEIGHT FALLING 30 INCHES.

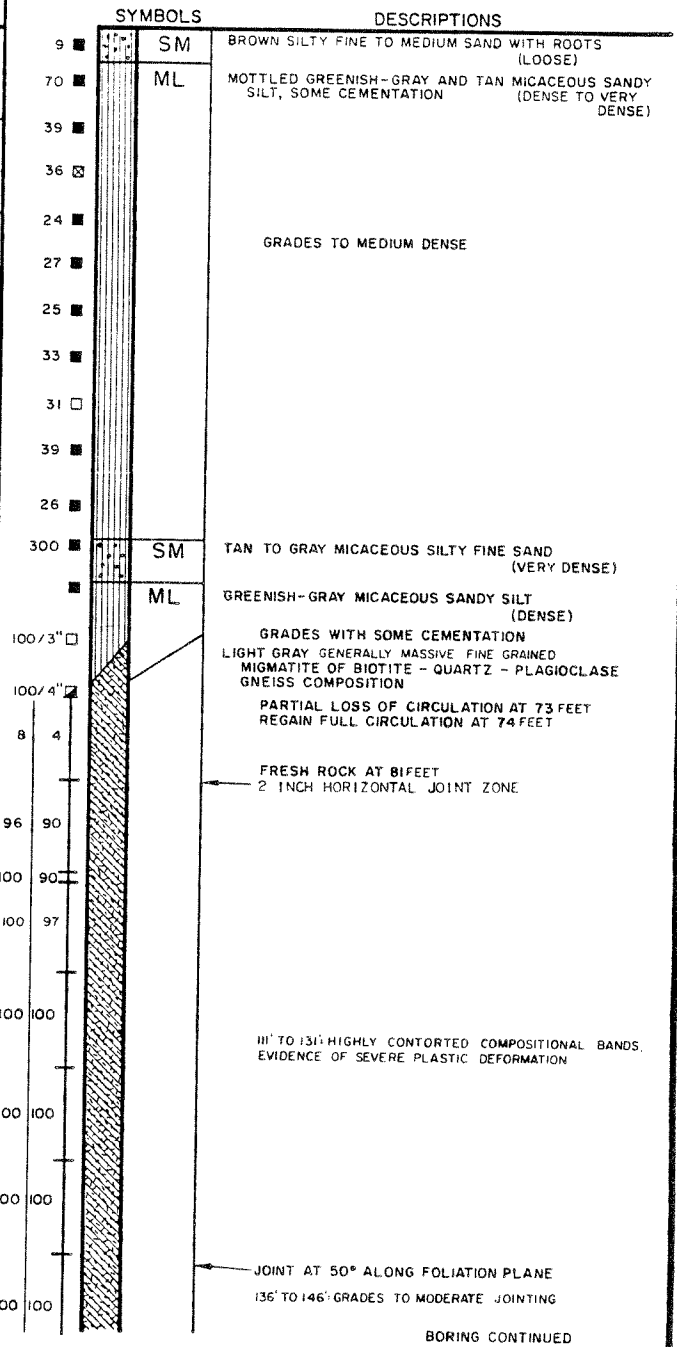
GROUND WATER LEVEL AT DEPTH 46.6 FEET, ON 3-29-71.

LOG OF BORING N-20

BORING N-21

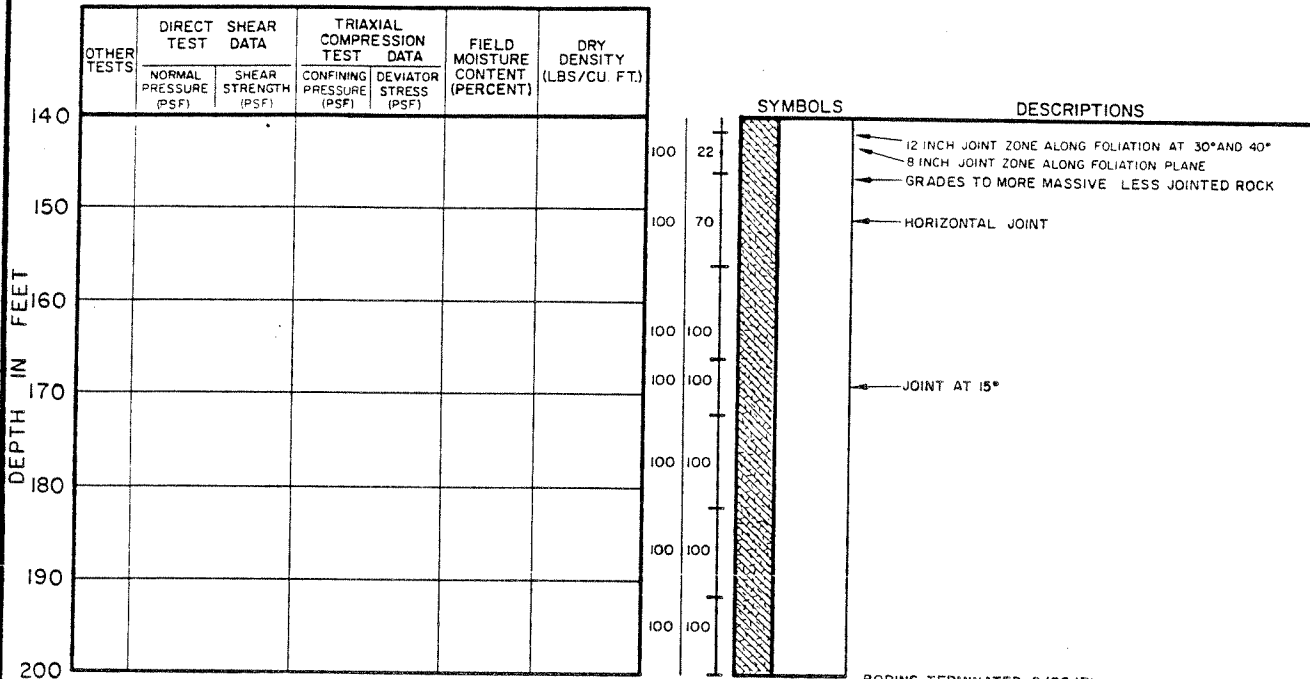
SURFACE ELEVATION 411.6 FEET
 COORDINATES N472,408.0
 E1,905,937.1

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



LOG OF BORING N-21

BORING N-21 (CONTD)



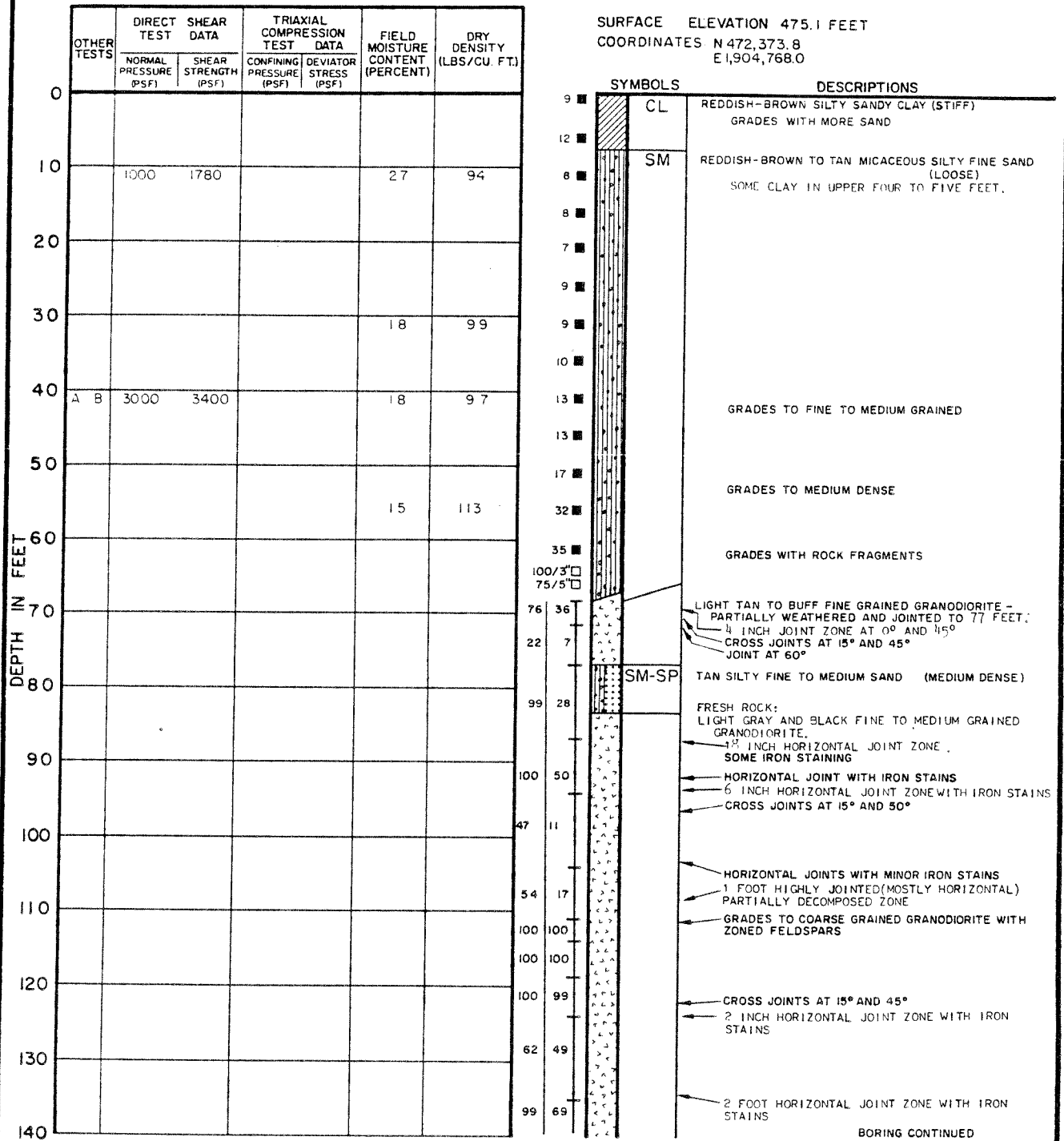
BORING TERMINATED 2/26/71
 SAMPLER DRIVEN WITH A 300LB WEIGHT FALLING
 24 INCHES

GROUND WATER LEVEL AT DEPTH 57.8 FEET, ON 3-29-71.

LOG OF BORING N-21

BORING N-22

SURFACE ELEVATION 475.1 FEET
 COORDINATES N 472,373.8
 E 1,904,768.0

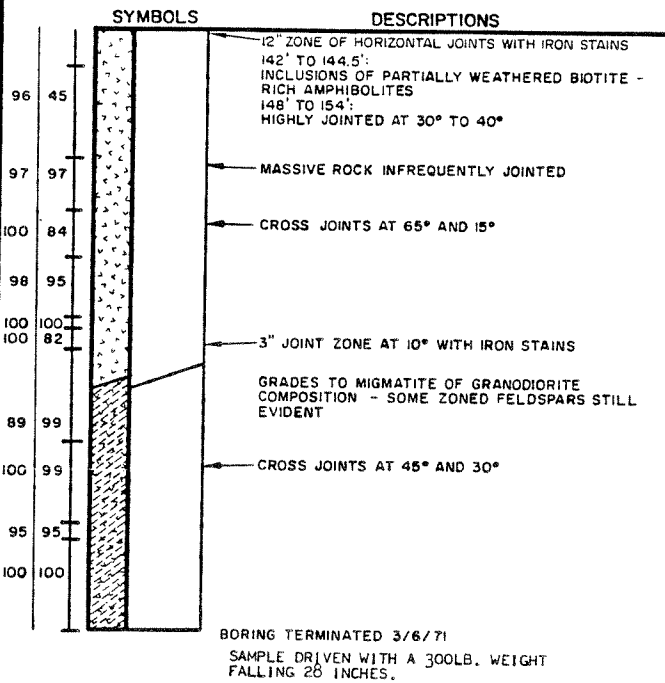


BORING CONTINUED

LOG OF BORING N-22

BORING N-22 (CONTD.)

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							
180							
190							
200							
210							



GROUND WATER LEVEL AT DEPTH 81.0 FEET, ON 3-29-71.

LOG OF BORING N-22

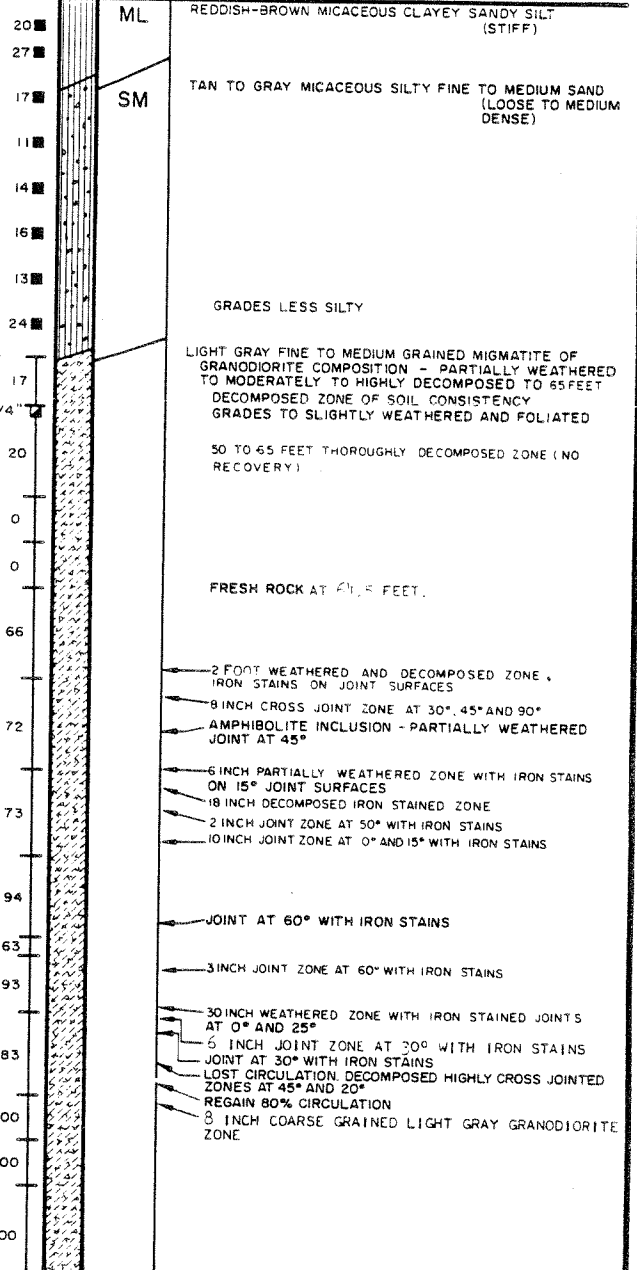
BORING N-23

SURFACE ELEVATION 464.0
 COORDINATES N 472,766.2
 E 1,904,433.6

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							

SYMBOLS

DESCRIPTIONS



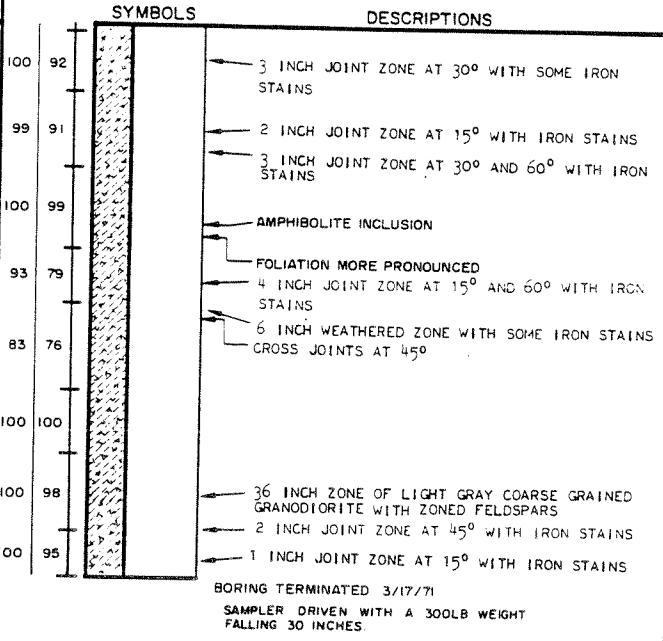
BORING CONTINUED

LOG OF BORING N-23

BORING N-23 (CONTD)

SURFACE ELEVATION
COORDINATES

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							
180							
190							
200							
210							

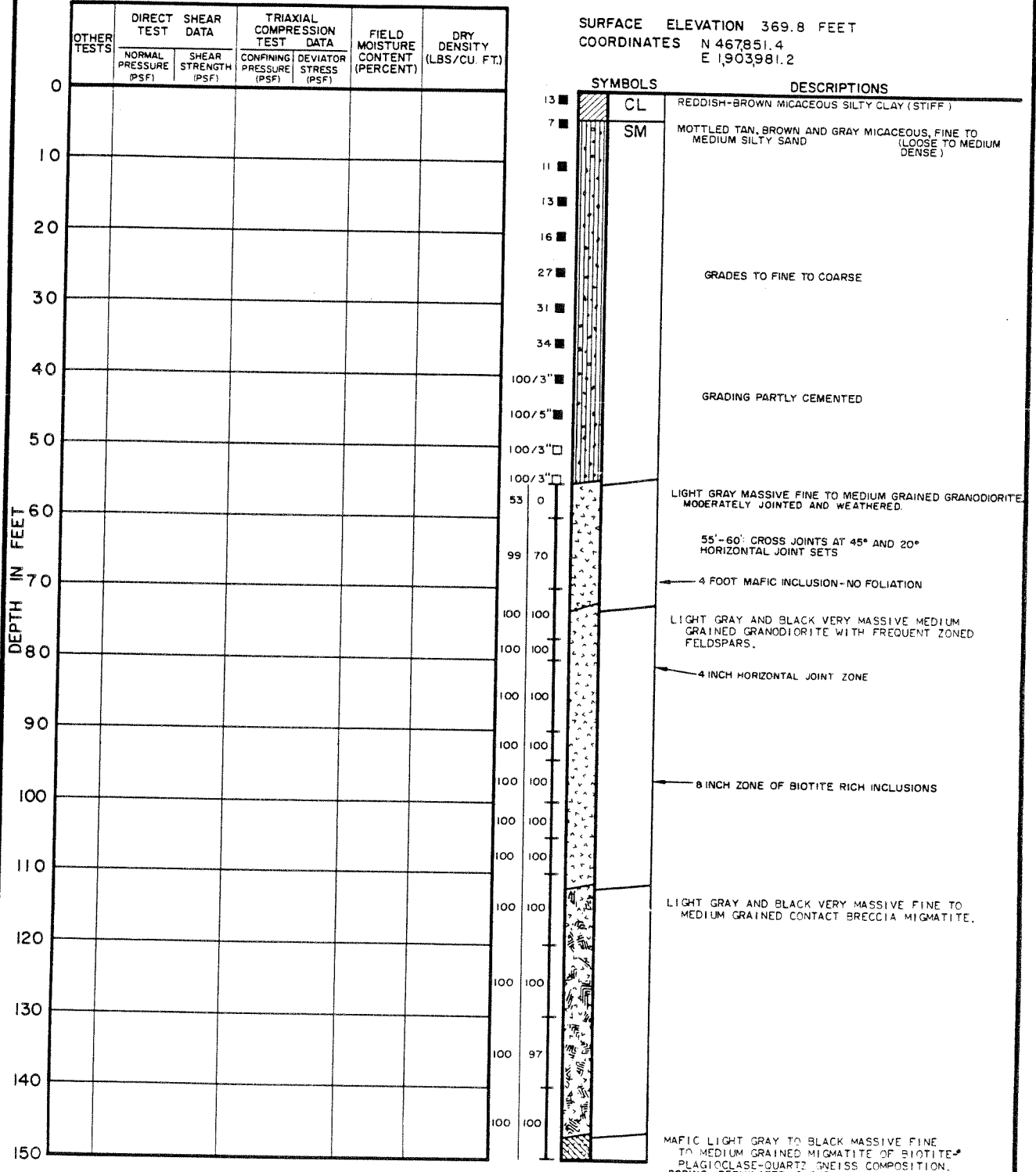


GROUND WATER LEVEL AT DEPTH 67.0 FEET, ON 3-29-71.

LOG OF BORING N-23

BORING N-24

SURFACE ELEVATION 369.8 FEET
 COORDINATES N 467851.4
 E 1903981.2



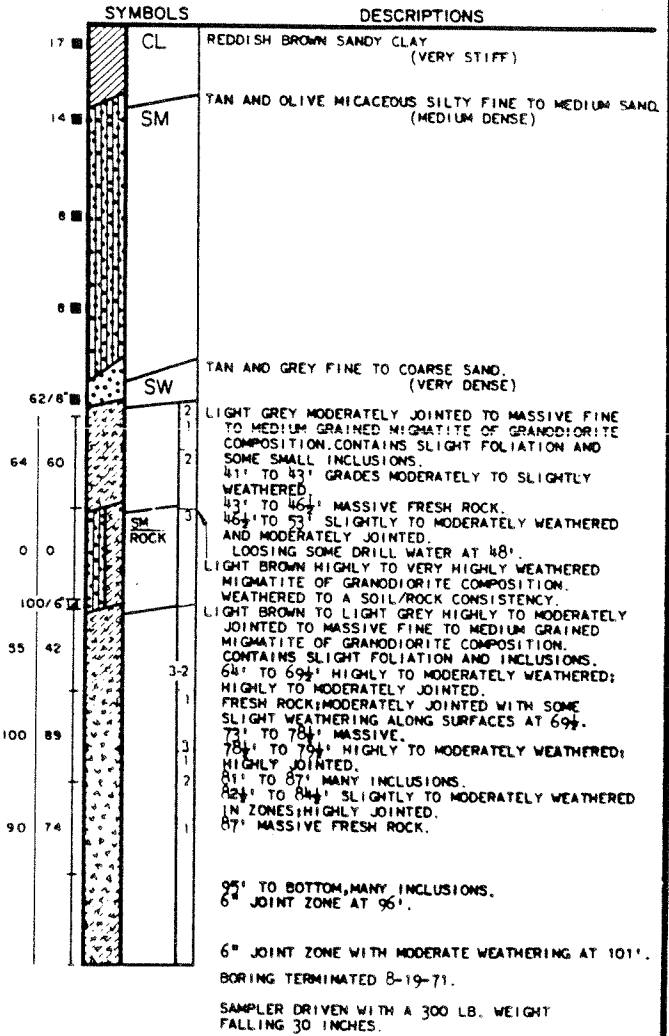
GROUND WATER LEVEL AT DEPTH 36.3 FEET, ON 3-29-71.

LOG OF BORING N-24

BORING I-1

SURFACE ELEVATION 461.0
 CO-ORDINATES N 472,766
 E 1,904,204

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST		COMPRESSION DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											

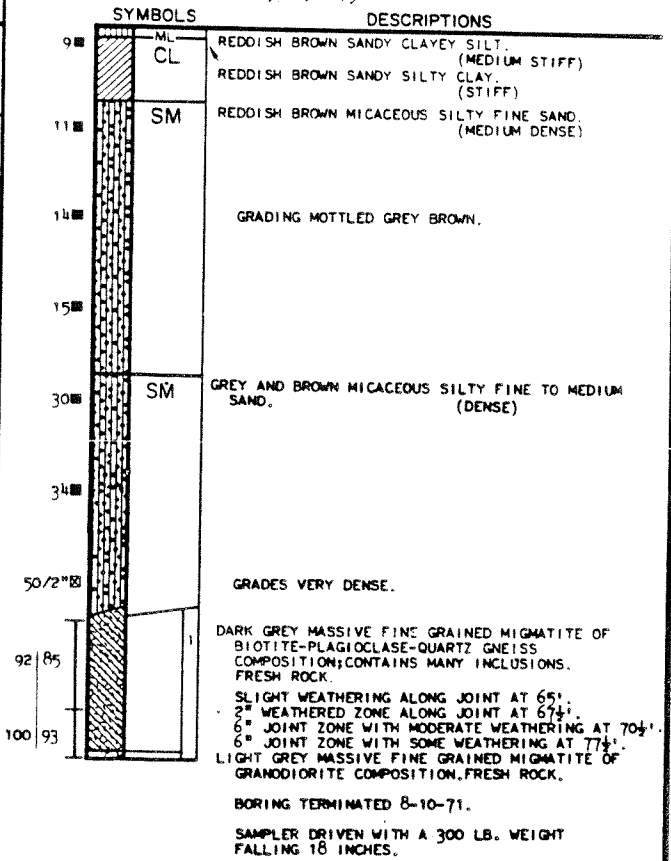


LOG OF BORING I-1

BORING I-2

SURFACE ELEVATION 463.9
 CO-ORDINATES N 472,660.5
 E 1,904,081.5

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							

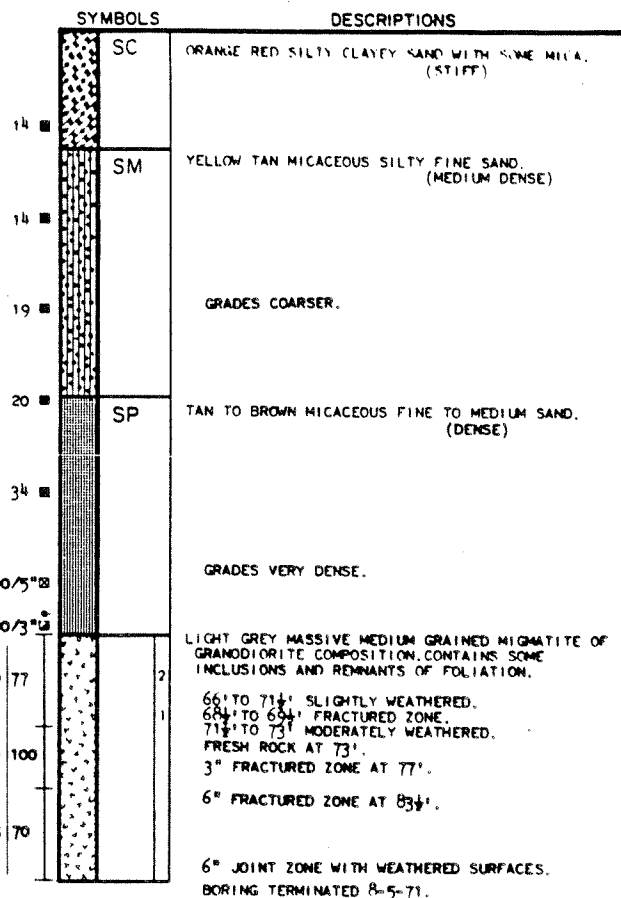


LOG OF BORING I-2

BORING I-3

SURFACE ELEVATION 467.4
 CO-ORDINATES N 472,741.5
 E 1,904,322

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							

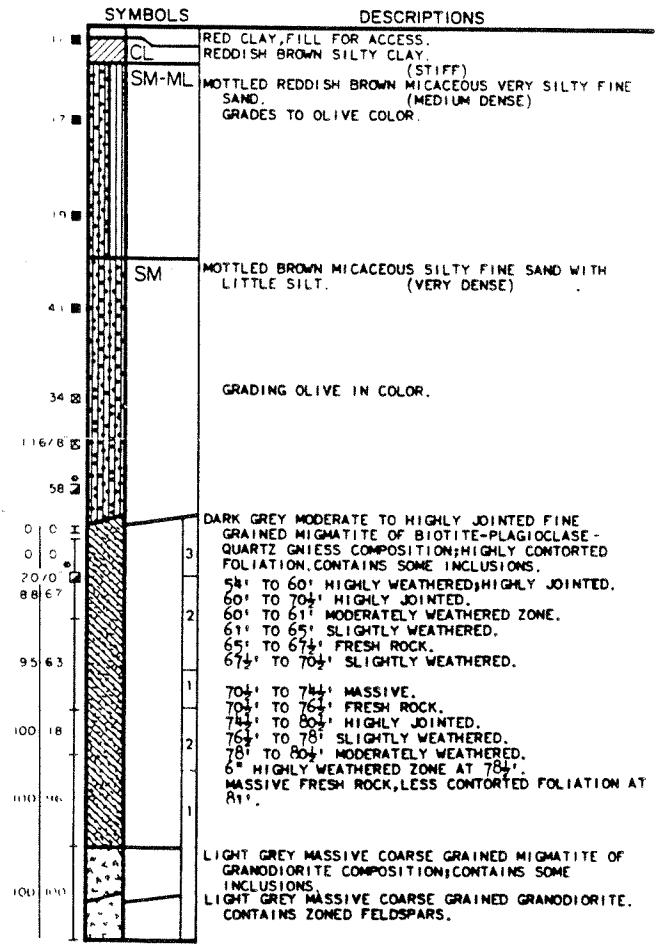


LOG OF BORING I-3

BORING I-4

SURFACE ELEVATION 453.9
 CO-ORDINATES N 472,600
 E 1,904,000

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							



BORING TERMINATED 8-9-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES. *INDICATES STANDARD PENETRATION TESTS.

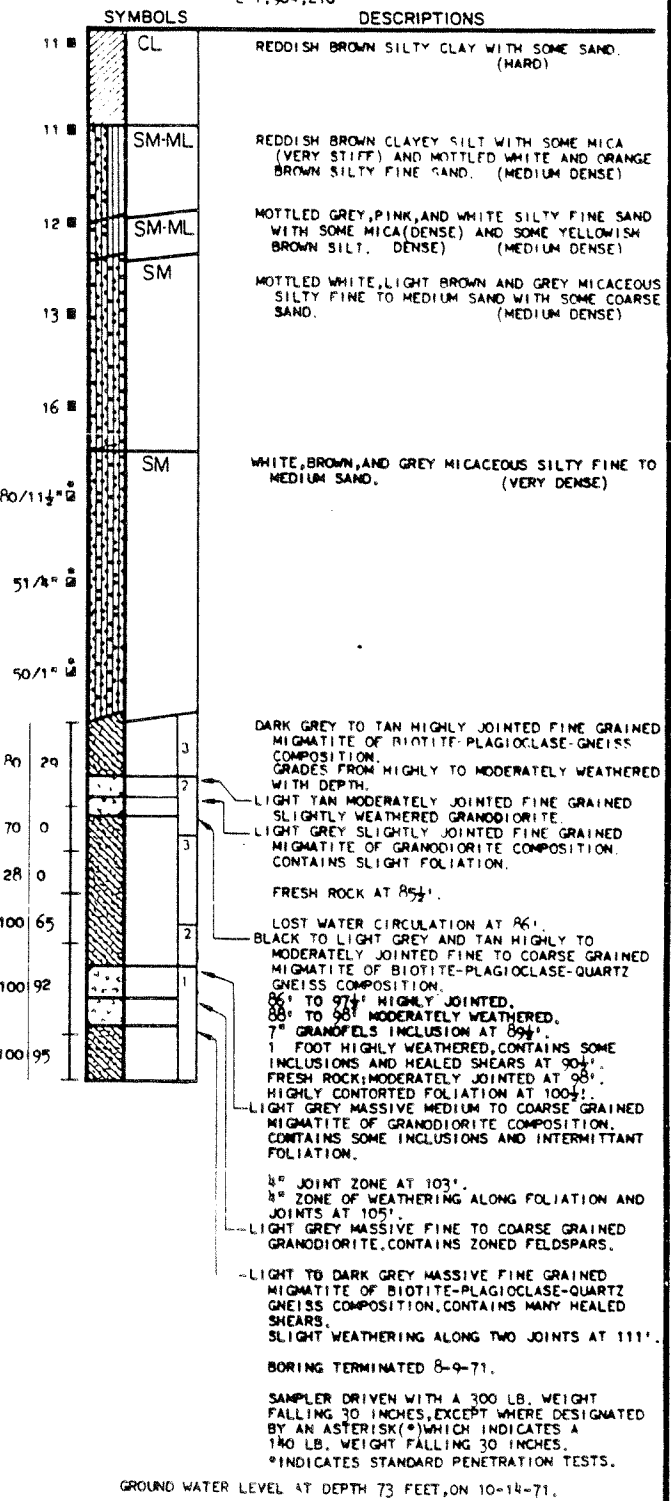
GROUND WATER LEVEL AT DEPTH 55 FEET, ON 10-14-71.

LOG OF BORING I-4

BORING I-5

SURFACE ELEVATION 474.2
 CO-ORDINATES N 472,603
 E 1,904,210

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							

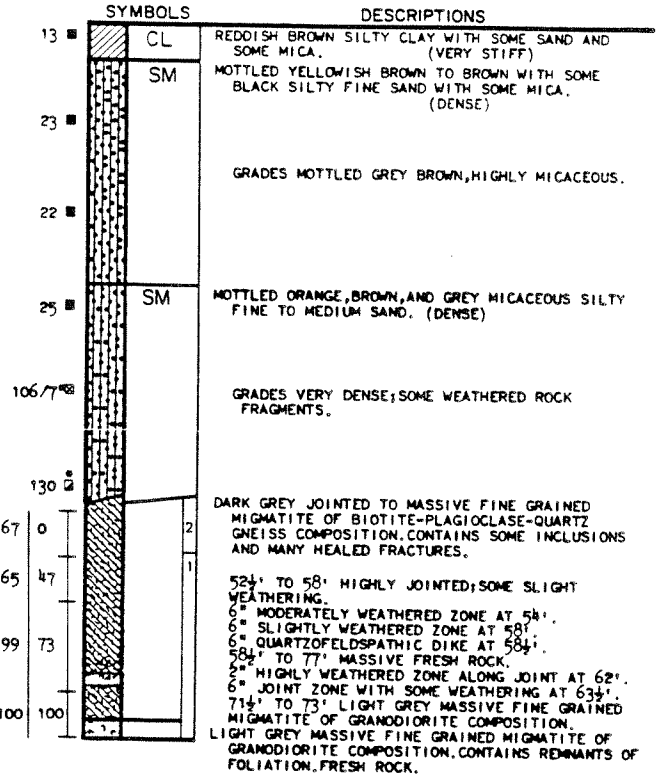


LOG OF BORING I-5

BORING I-6

SURFACE ELEVATION 459.4
 CO-ORDINATES N 472,500
 E 1,904,105

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							



BORING TERMINATED 8-10-71.

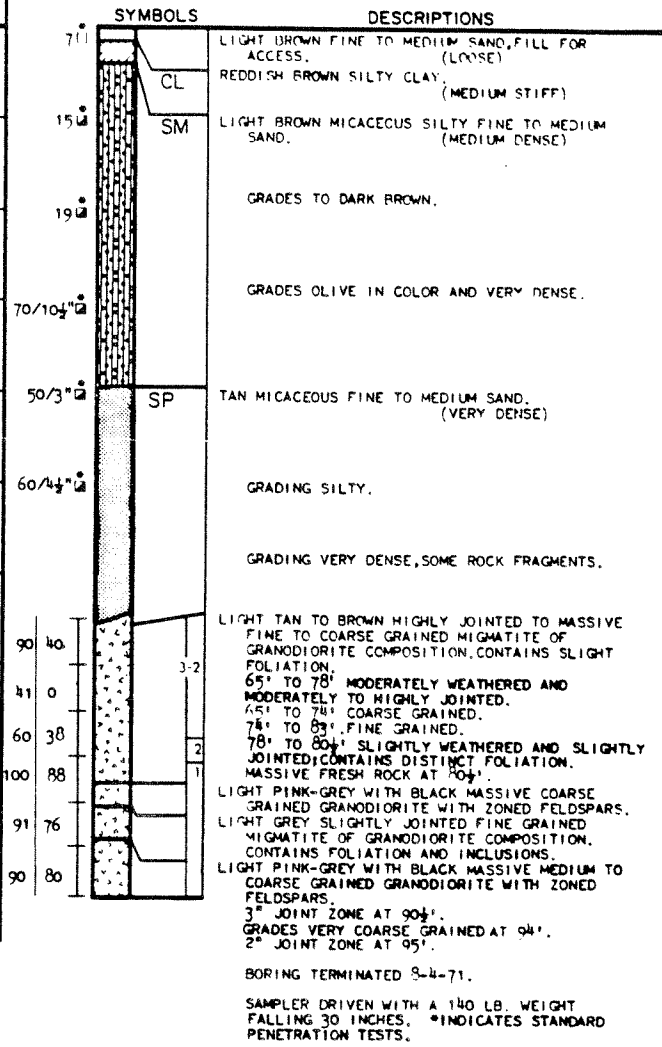
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES. *INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING I-6

BORING I-7

SURFACE ELEVATION 456.0
 CO-ORDINATES N 472,561
 E 1,904,277

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL STRESS (PSF)	SHEAR STRENGTH (PSF)	CONFINING STRESS (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							



GROUND WATER LEVEL AT DEPTH 55 FEET, ON 10-14-71.

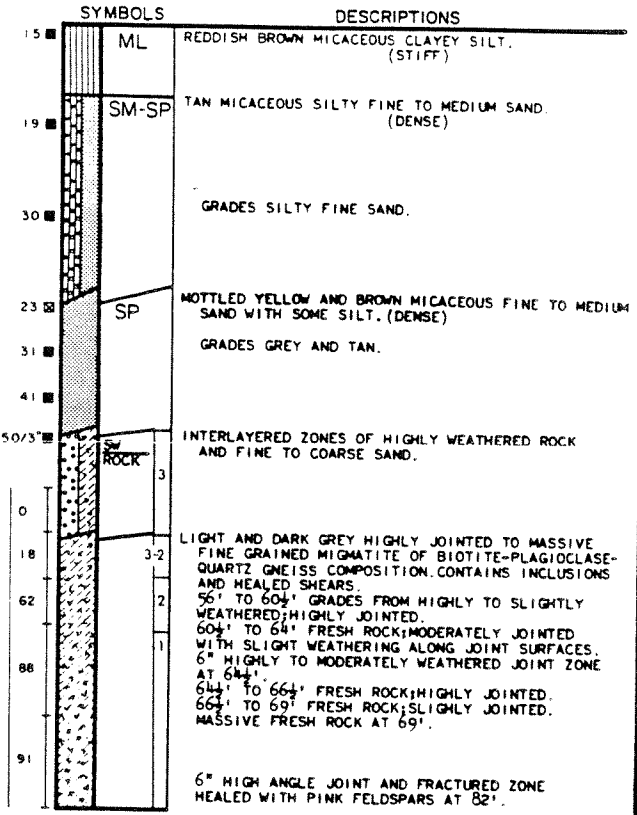
LOG OF BORING I-7

BORING I-8

SURFACE ELEVATION 466.3

CO-ORDINATES N 472,384
E 1,904,000

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							



BORING TERMINATED 8-19-71.

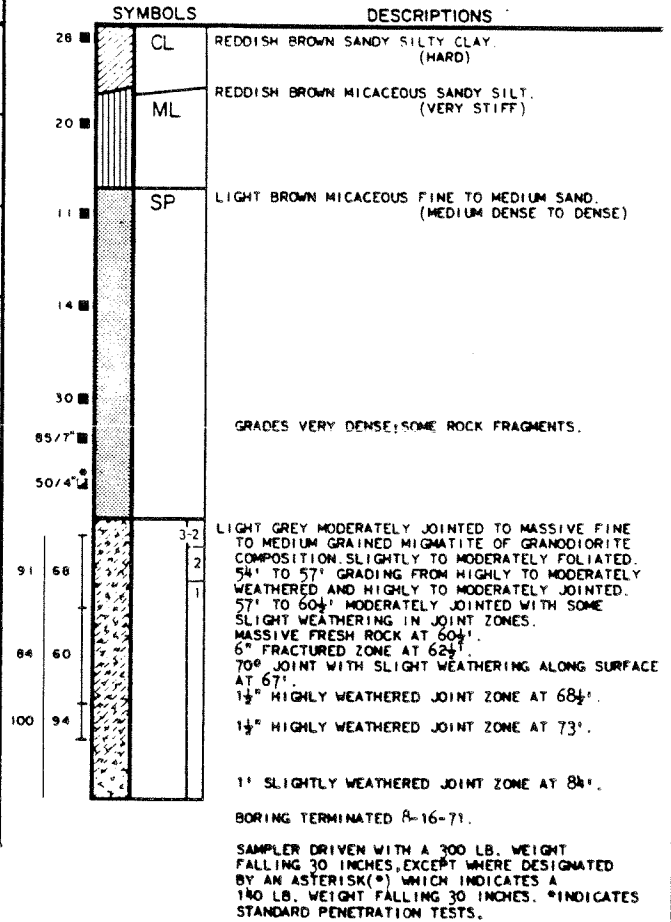
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING I-8

BORING 1-9

SURFACE ELEVATION 481.3
 CO-ORDINATES N 472,318
 E 1,904,100

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							

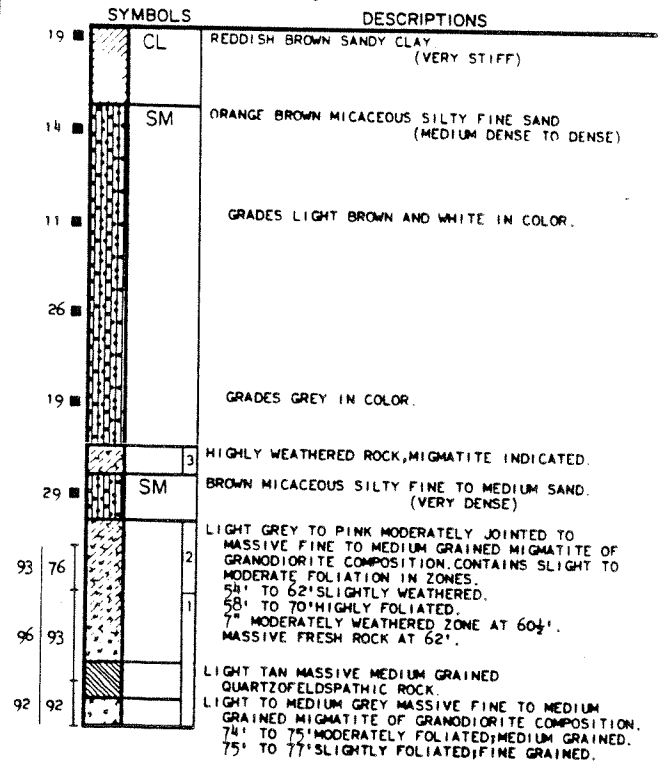


LOG OF BORING 1-9

BORING I-10

SURFACE ELEVATION 496.7
 CO-ORDINATES N 472,320
 E 1,904,300

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							



BORING TERMINATED 8-13-71.

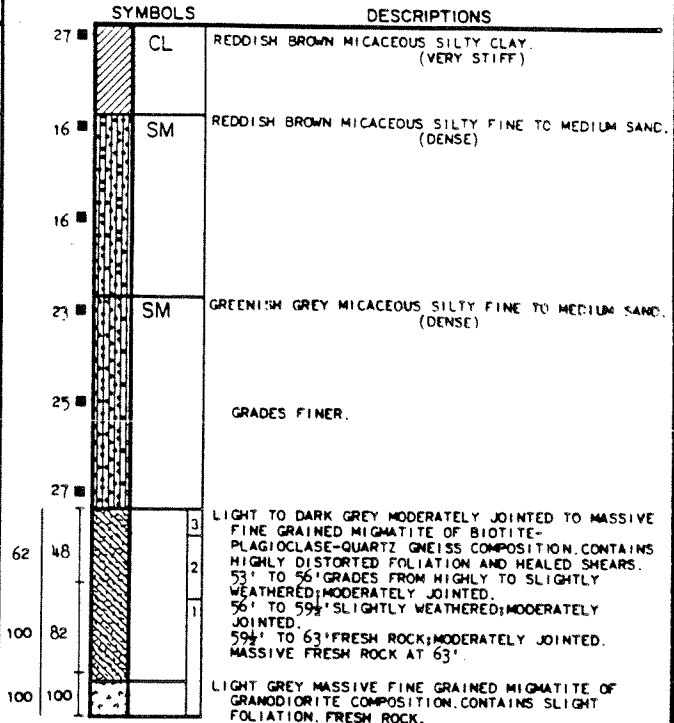
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING I-10

BORING I-II

SURFACE ELEVATION 455.7
 CO-ORDINATES N 472,766
 E 1,904,095

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							



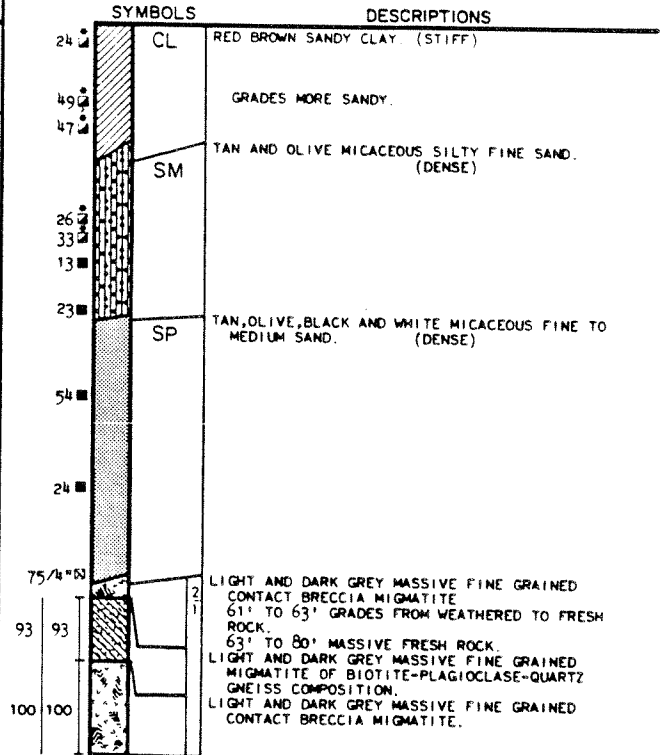
BORING TERMINATED 8-18-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING I-II

BORING 1-12

SURFACE ELEVATION 400.6
 CO-ORDINATES N 473,150
 E 1,904,000

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							



BORING TERMINATED 8-20-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES. * INDICATES STANDARD PENETRATION TESTS.

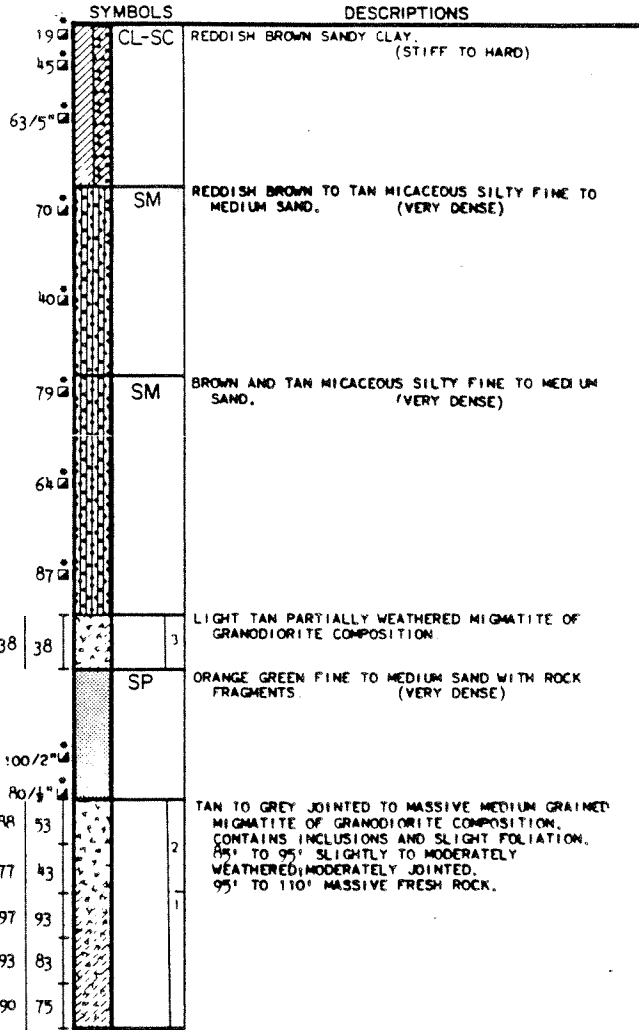
GROUND WATER LEVEL AT DEPTH 31 FEET, ON 10-14-71.

LOG OF BORING 1-12

BORING 2-1

SURFACE ELEVATION 479.8
 CO-ORDINATES N 472,610
 E 1,904,400

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							



BORING TERMINATED 7-30-71.

SAMPLER DRIVEN WITH A 140 LB. WEIGHT FALLING 30 INCHES. *INDICATES STANDARD PENETRATION TESTS.

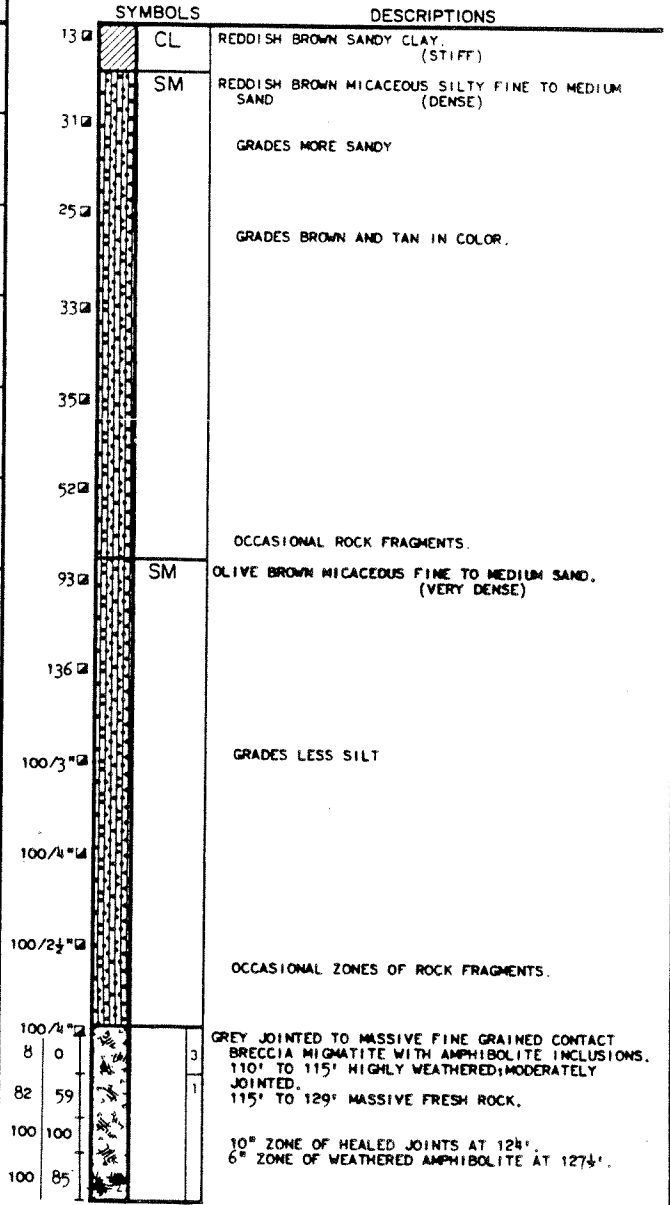
NOTE:
 BORING LOG IS A COMPOSITE OF TWO ADJACENT BORINGS, ONE OF WHICH WAS TERMINATED AT A SHALLOW DEPTH DUE TO EQUIPMENT PROBLEMS.

LOG OF BORING 2-1

BORING 2-2

SURFACE ELEVATION 471.7
 CO-ORDINATES N 472,600
 E 1,904,590

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



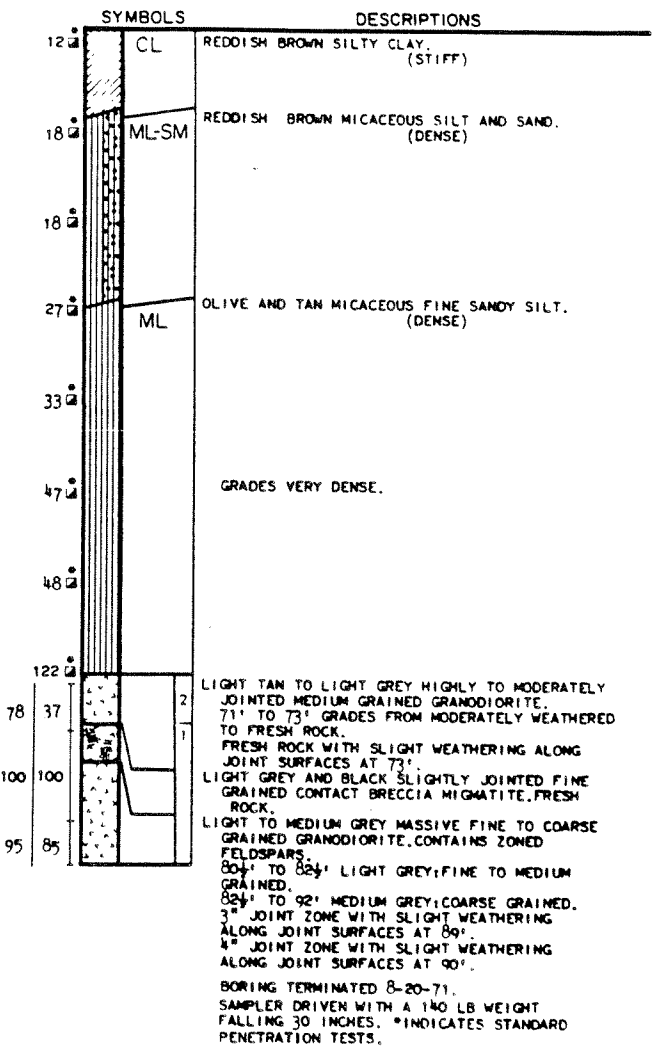
BORING TERMINATED 7-30-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING 2-2

BORING 2-3

SURFACE ELEVATION 454.1
 CO-ORDINATES N 472,766
 E 1,904,580

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							

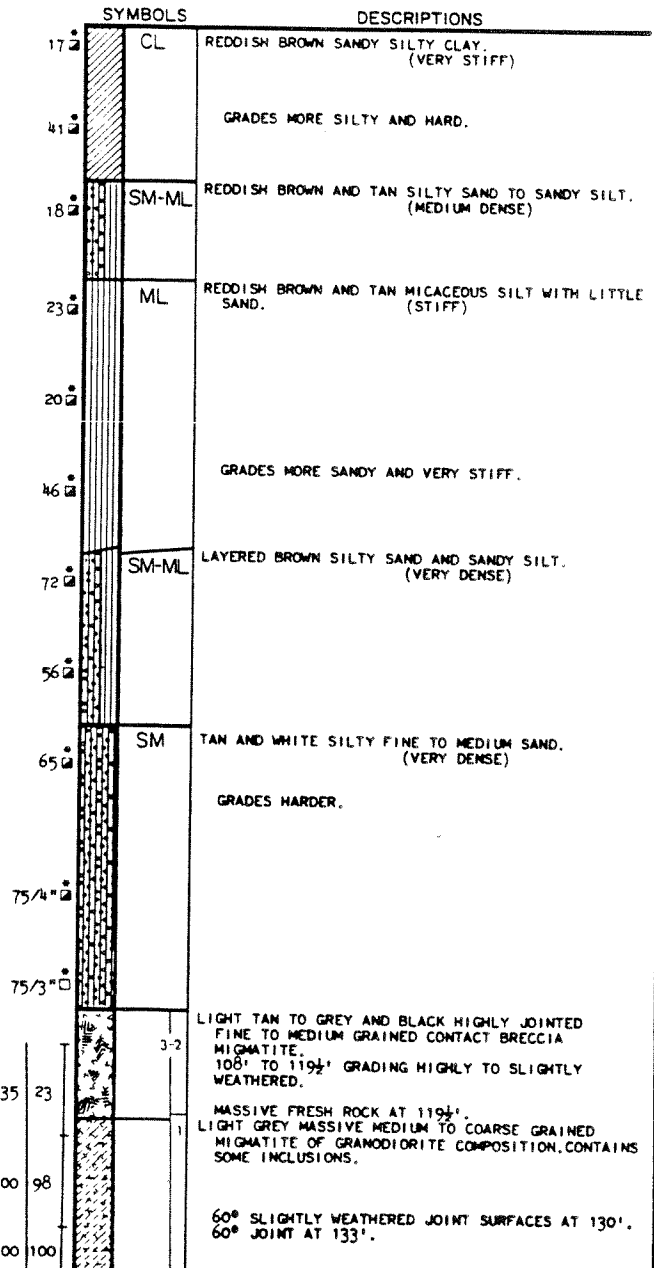


LOG OF BORING 2-3

BORING 2-4

SURFACE ELEVATION 494.1
 CO-ORDINATES N 472,318
 E 1,904,580

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



BORING TERMINATED 8-16-71.

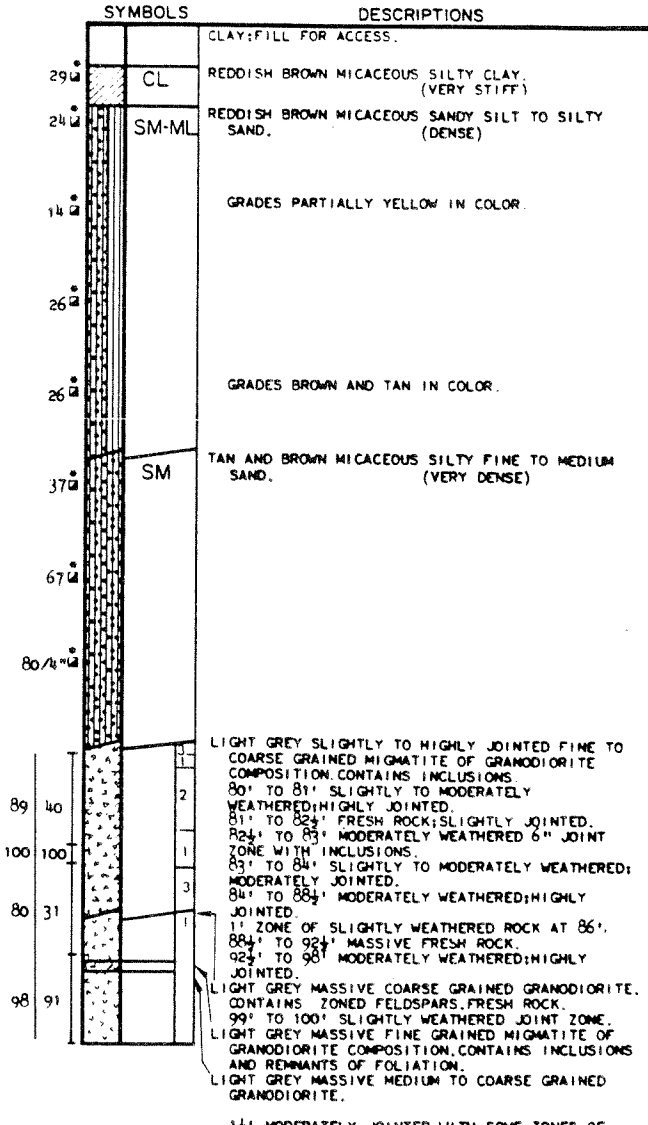
SAMPLER DRIVEN WITH A 140 LB. WEIGHT FALLING 30 INCHES. *INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING 2-4

BORING 3-1

SURFACE ELEVATION 457.6
 CO-ORDINATES N 472,600
 E 1,904,740

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									



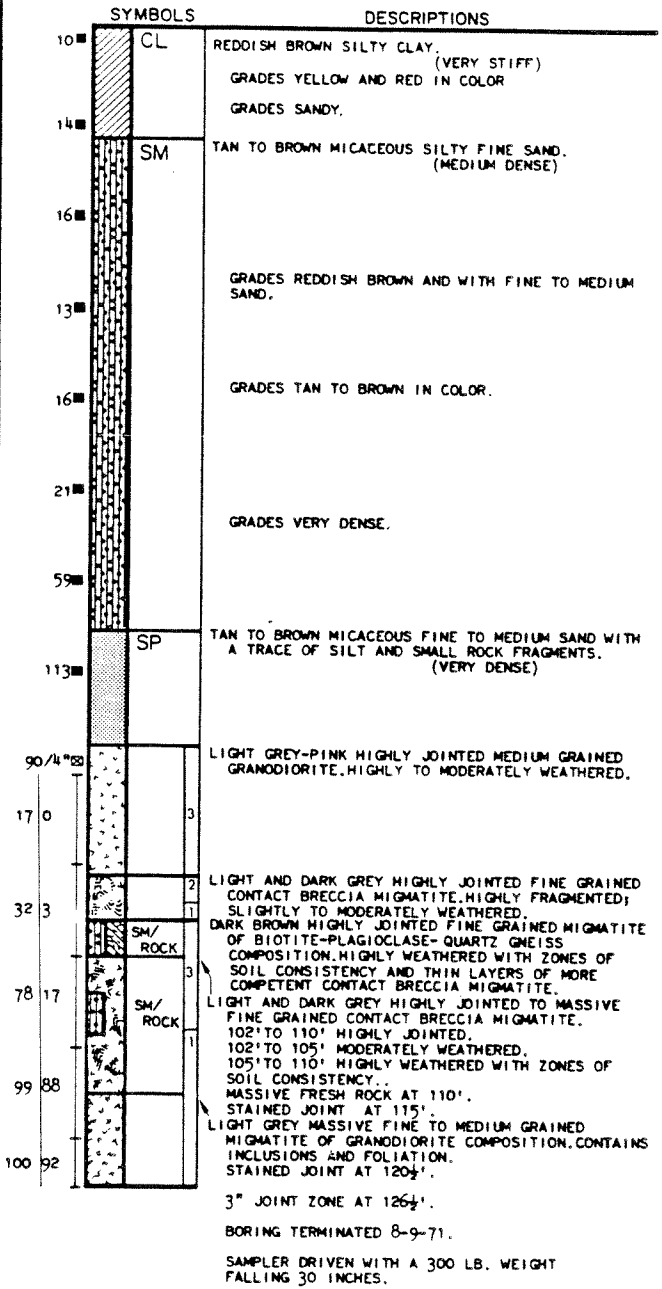
BORING TERMINATED 8-11-71.
 SAMPLER DRIVEN WITH A 140 LB. WEIGHT FALLING 30 INCHES. *DENOTES STANDARD PENETRATION TEST.

LOG OF BORING 3-1

BORING 3-2

SURFACE ELEVATION 443.7
 CO-ORDINATES N 472,600
 E 1,904,900

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40	A D					18	104
50							
60	B					12	115
70		3000	4380			14	116
80							
90							
100							
110							
120							
130							
140							



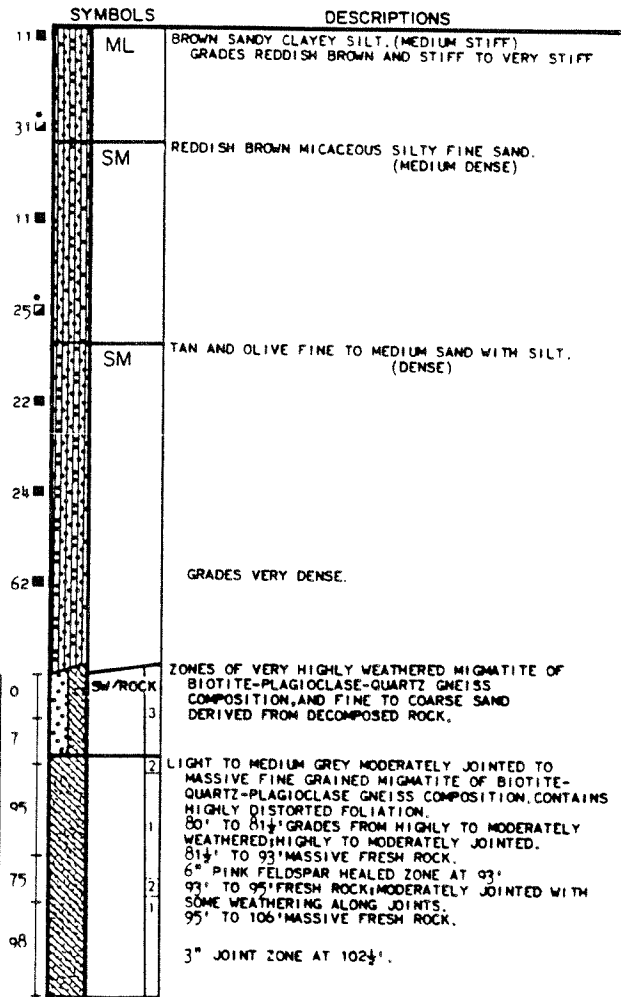
GROUND WATER LEVEL AT A DEPTH OF 65 FEET ON 10-14-71.

LOG OF BORING 3-2

BORING 3-3

SURFACE ELEVATION 425.4
 CO-ORDINATES N 472,742
 E 1,904,900

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0	C							23	
10									
20		2500	2050					19	86
30									
40	B	1500	1560					20	94
50	B							20	102
60	A, D							19	112
70									
80									
90									
100									
110									



BORING TERMINATED 8-23-71.

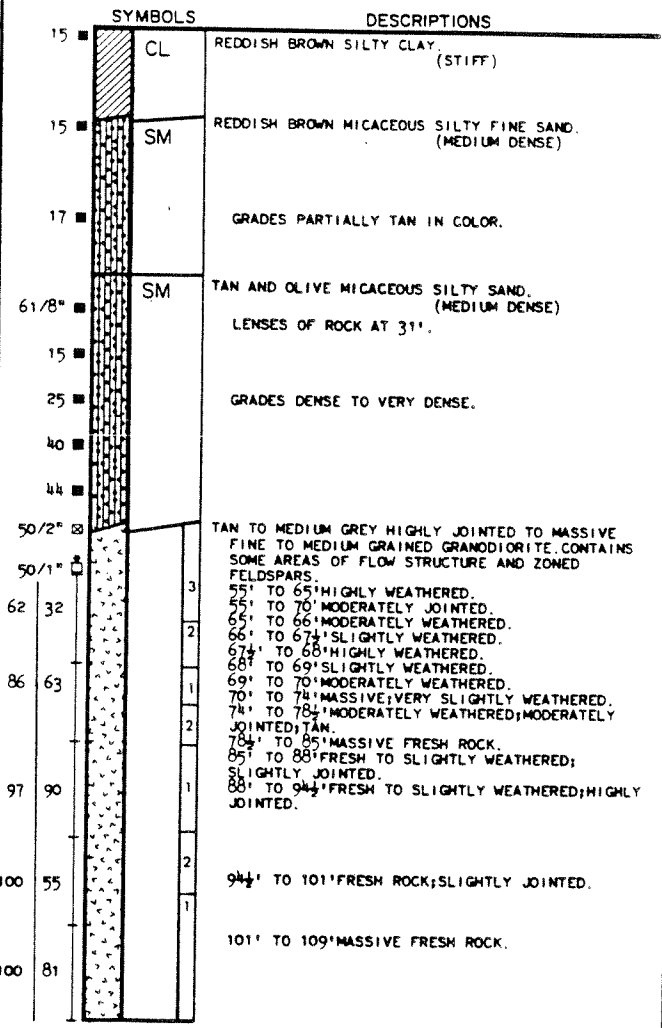
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES. * DENOTES STANDARD PENETRATION TEST.

LOG OF BORING 3-3

BORING 3-4

SURFACE ELEVATION 472.1
 CO-ORDINATES N 472,318
 E 1,904,900

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50		500	1050			21	97
60							
70							
80							
90							
100							
110							



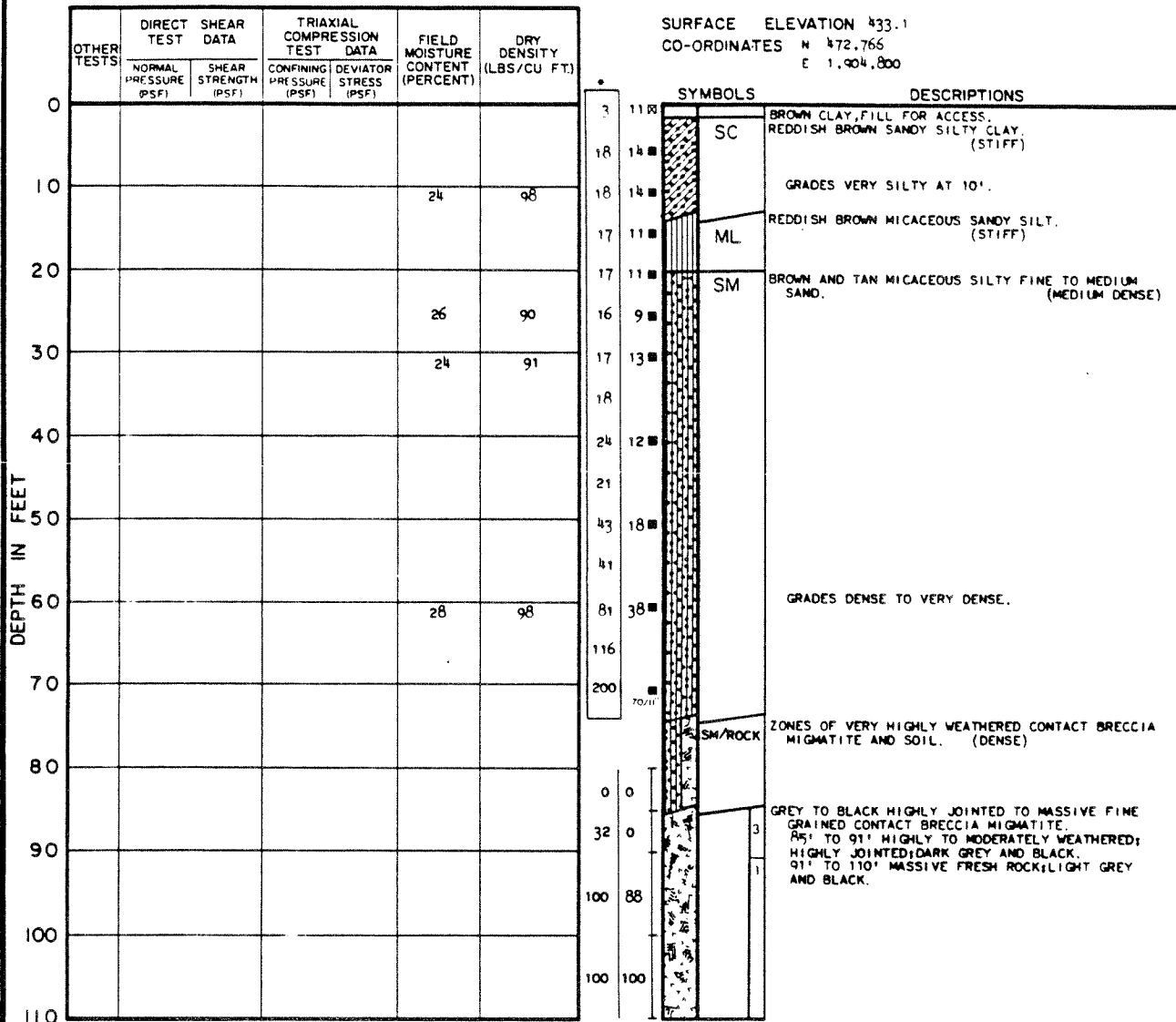
BORING TERMINATED 8-23-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 120 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING 3-4

BORING 3-5

SURFACE ELEVATION 833.1
 CO-ORDINATES N 472,766
 E 1,904,800



BORING TERMINATED 9-2-71.

NUMBERS ENCLOSED WITHIN THE COLUMN DESIGNATED BY ASTERISK (*) INDICATE BLOWCOUNTS OBTAINED FROM AN ADJACENT BORING UTILIZING STANDARD PENETRATION EQUIPMENT.

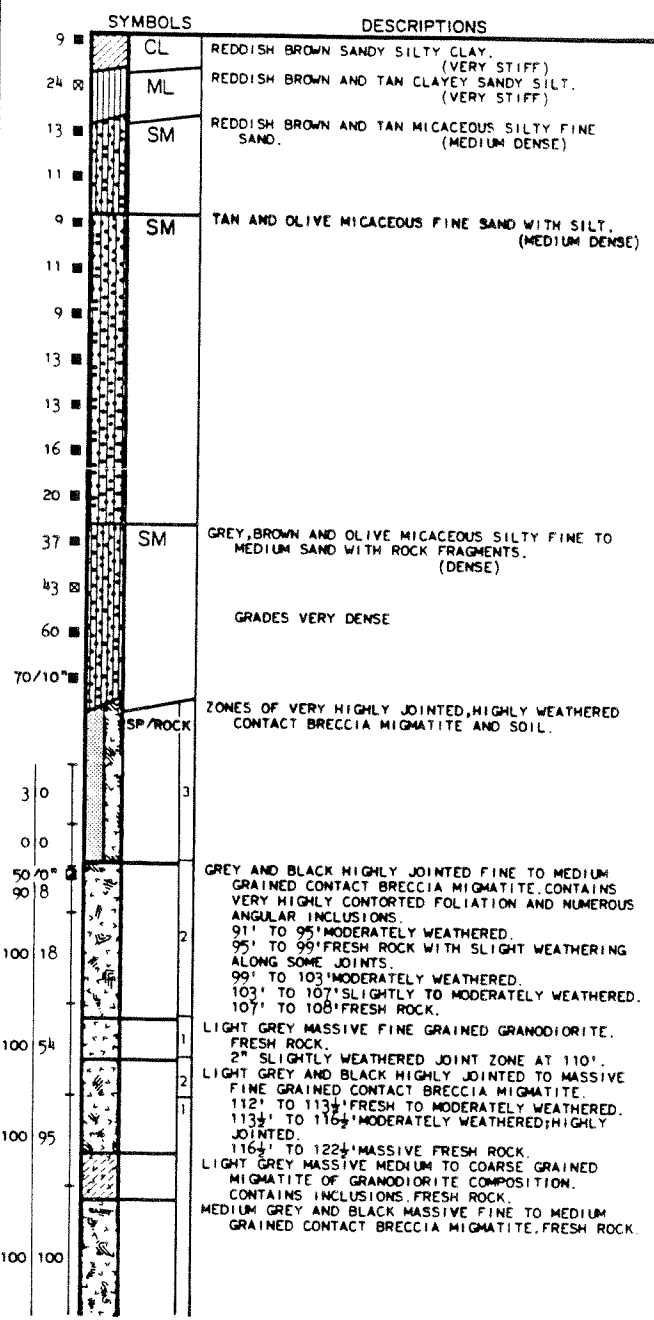
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE ENCLOSED WITHIN THE COLUMN DESIGNATED BY ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES. *INDICATES STANDARD PENETRATION TEST.

LOG OF BORING 3-5

BORING 3-6

SURFACE ELEVATION 442.6
 CO-ORDINATES N 472,640
 E 1,904,875

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20		1500	1300			20	89
30							
40							
50		2500	2070			13	103
60							
70							
80							
90							
100							
110							
120							
130							
140							



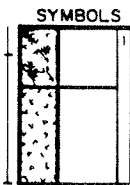
BORING CONTINUED

LOG OF BORING 3-6

BORING 3-6 CONT'D.

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							

100
100



SYMBOLS DESCRIPTIONS

MEDIUM GREY MASSIVE FINE TO COARSE GRAINED MIGMATITE OF GRANODIORITE COMPOSITION CONTAINS SOME INCLUSIONS GRADING TO GRANODIORITE AT 155'

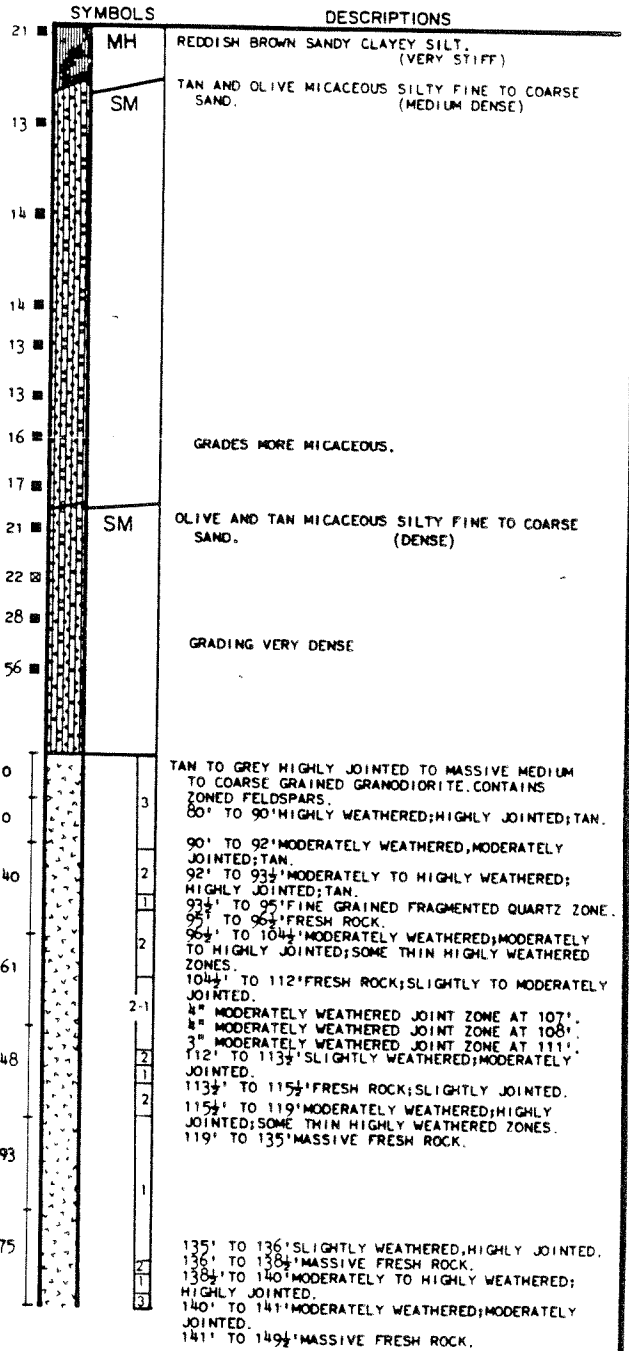
BORING TERMINATED R-31-71.
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING 3-6

BORING 3-7

SURFACE ELEVATION 466.9
 CO-ORDINATES N 472,500
 E 1,904,740

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
56		3500	3230			20	98
60							
70		4000	3690			18	102
80							
90							
100							
110							
120							
130							
140							

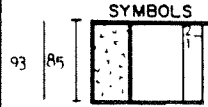


BORING CONTINUED

LOG OF BORING 3-7

BORING 3-7 CONT'D

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							
170							



SYMBOLS **DESCRIPTIONS**

93 85

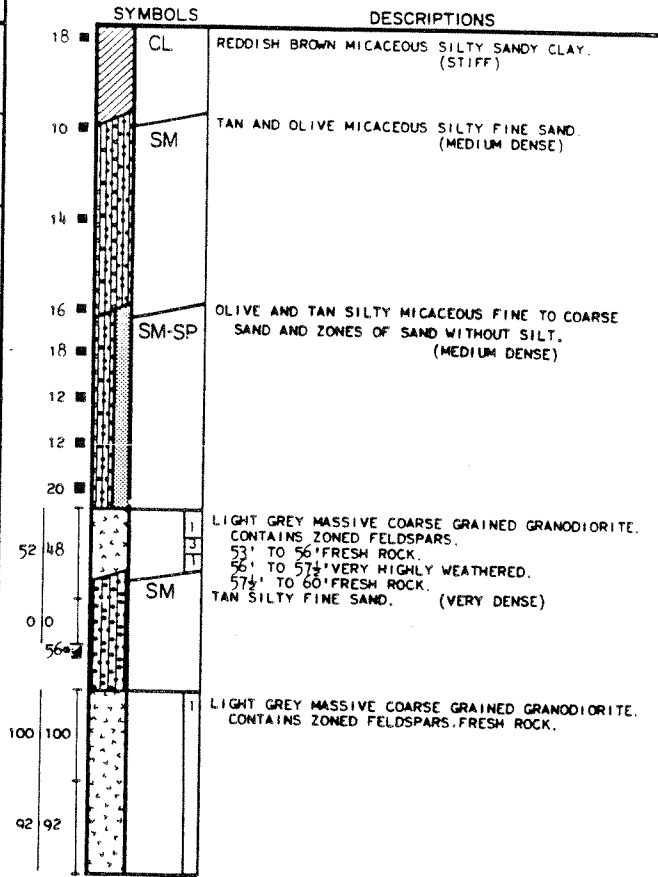
BORING TERMINATED AT 27 FT.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT
 FALLING 30 INCHES.

LOG OF BORING 3-7

BORING 3-8

SURFACE ELEVATION 453.0
 CO-ORDINATES N 472,500
 E 1,904,900

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30		2000	1800			15	98
40	B					15	95
50		3000	2420			21	96
60							
70							
80							
90							
100							



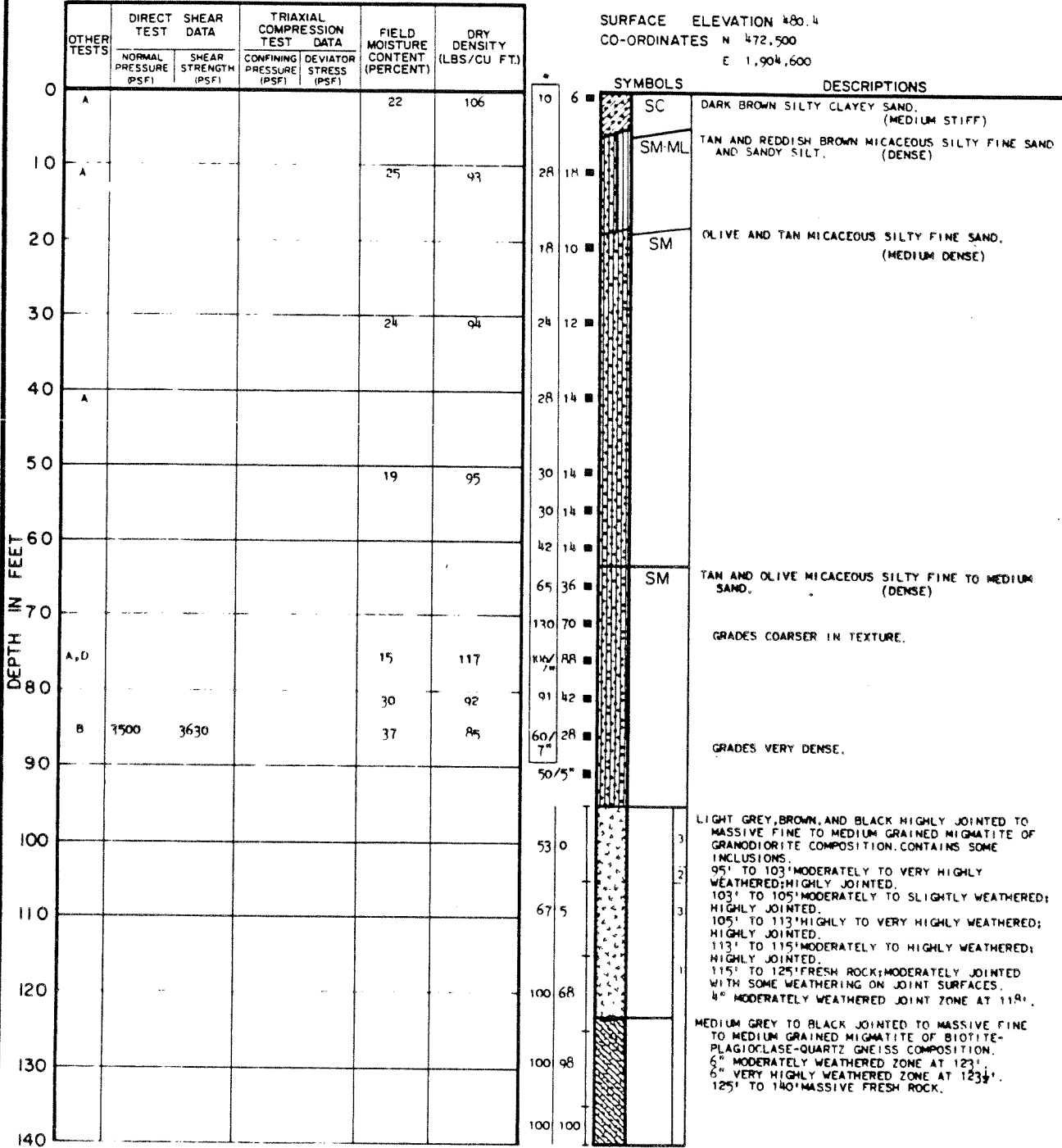
BORING TERMINATED 8-25-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES
 *INDICATES STANDARD PENETRATION TEST.

LOG OF BORING 3-8

BORING 3-9

SURFACE ELEVATION 480.4
 CO-ORDINATES N 472,500
 E 1,904,600



BORING TERMINATED 8-26-71.

NUMBERS ENCLOSED WITHIN THE COLUMN DESIGNATED BY ASTERISK (*) INDICATE BLOWCOUNTS OBTAINED FROM AN ADJACENT BORING UTILIZING STANDARD PENETRATION EQUIPMENT.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE ENCLOSED WITHIN THE COLUMN DESIGNATED BY ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES.

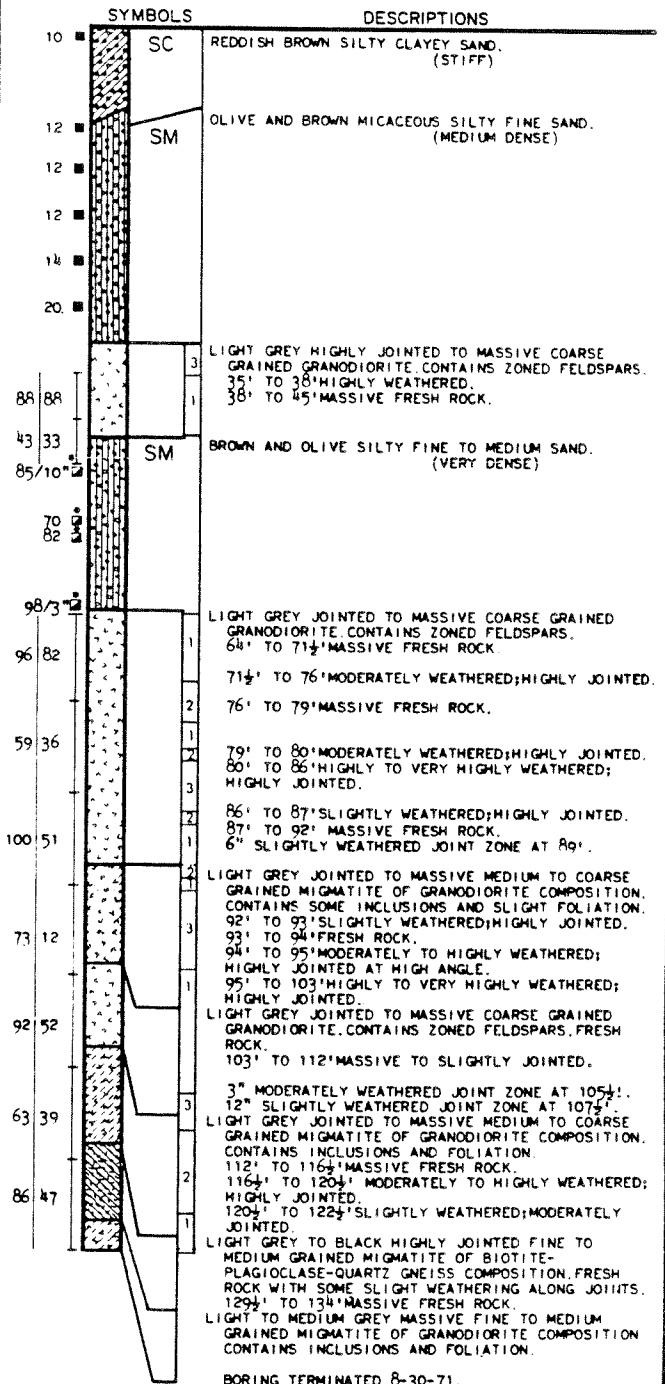
*INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING 3-9

BORING 3-10

SURFACE ELEVATION 445.9
 CO-ORDINATES N 472,400
 E 1,905,000

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0	A					32	
10		1500	1830			18	94
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



BORING TERMINATED 8-30-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES.

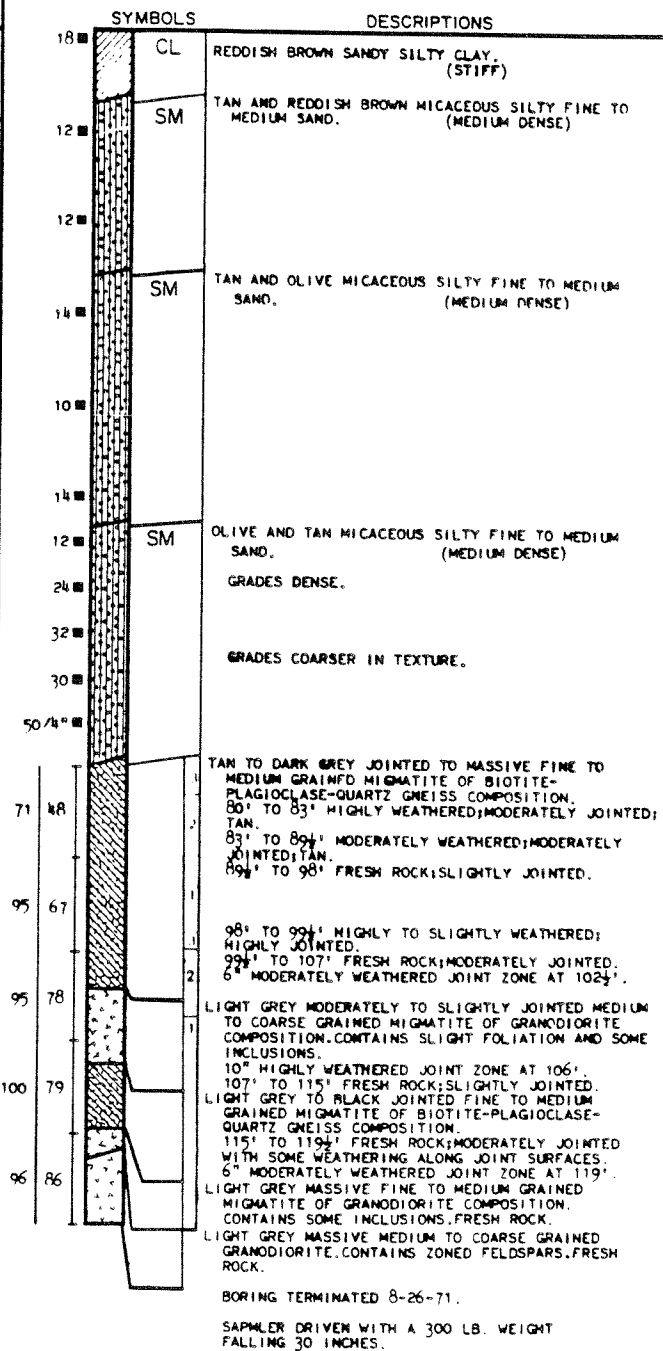
*INDICATES STANDARD PENETRATIC. TEST.

LOG OF BORING 3-10

BORING 3-II

SURFACE ELEVATION 482.1
 CO-ORDINATES N 472,318
 E 1,904,740

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						20	90
20							
30						18	100
40							
50							
60							
70						16	111
80							
90							
100							
110							
120							
130							
140							

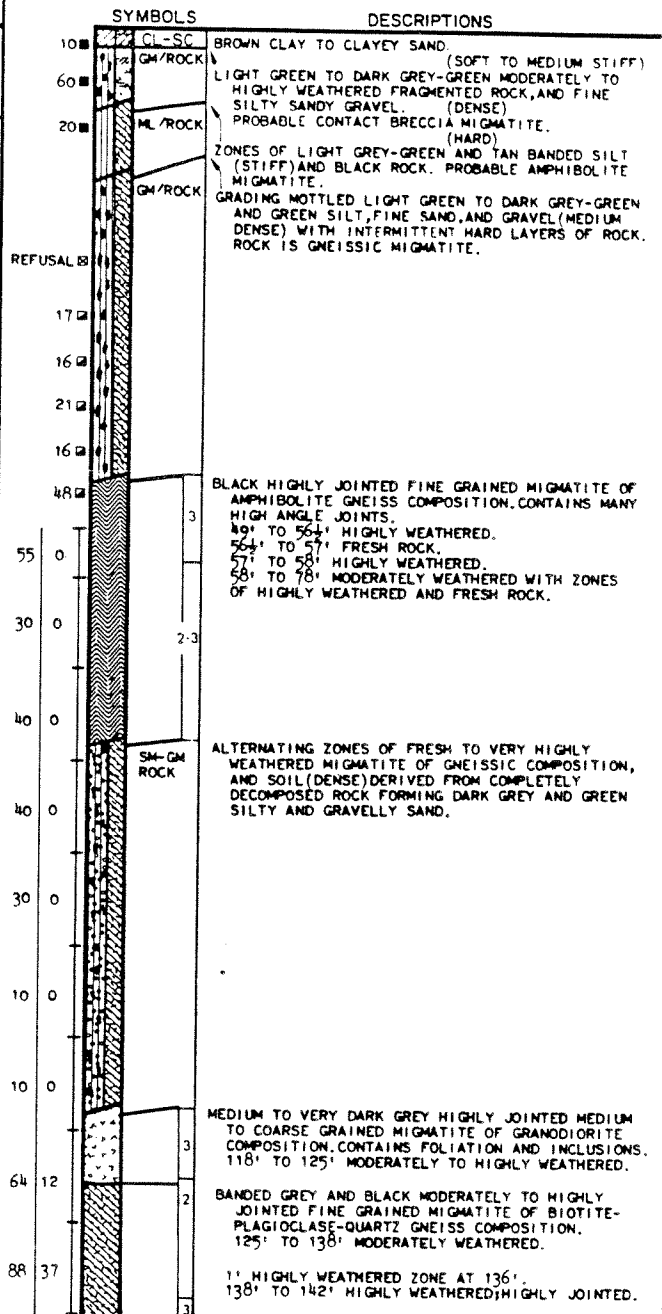


LOG OF BORING 3-II

BORING 3-12

SURFACE ELEVATION 417.7
 CO-ORDINATES N 473,075
 E 1,905,000

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



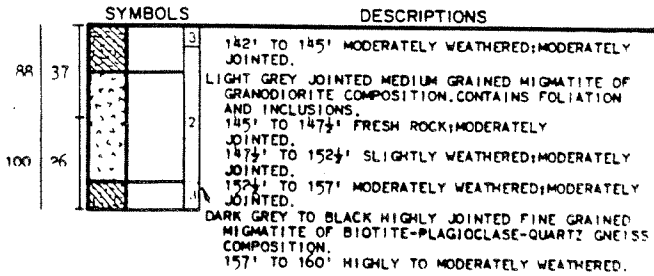
BORING CONTINUED

LOG OF BORING 3-12

90

BORING 3-12 CONT'D

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
140							
150							
160							



BORING TERMINATED 9-7-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

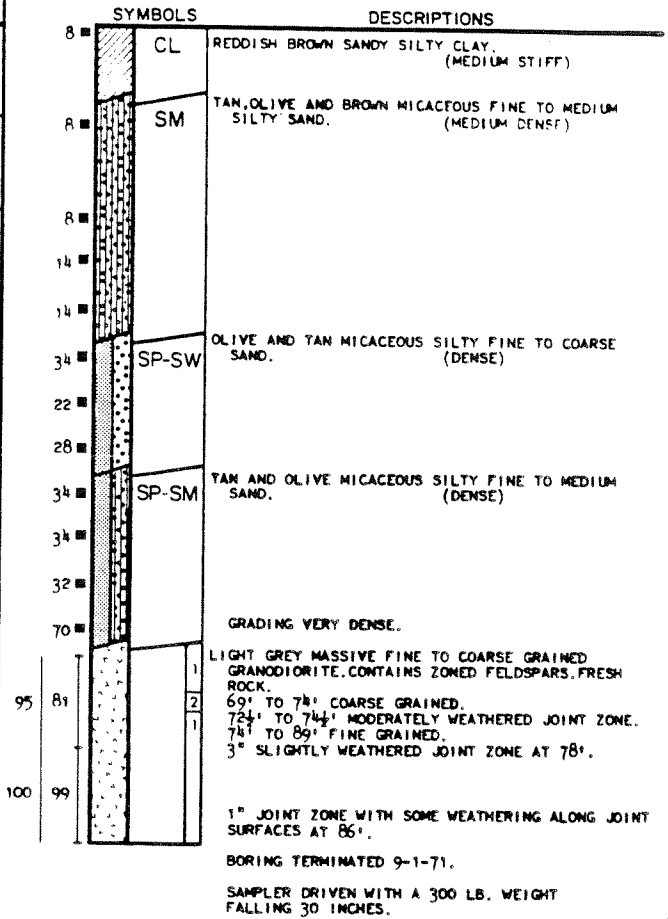
GROUND WATER LEVEL AT DEPTH 62 FEET, ON 10-14-71.

LOG OF BORING 3-12

BORING 3-13

SURFACE ELEVATION 457.0
 CO-ORDINATES N 472,275
 E 1,905,000

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						20	92
20							
30							
40	A					15	109
50	A						
60							
70							
80							
90							

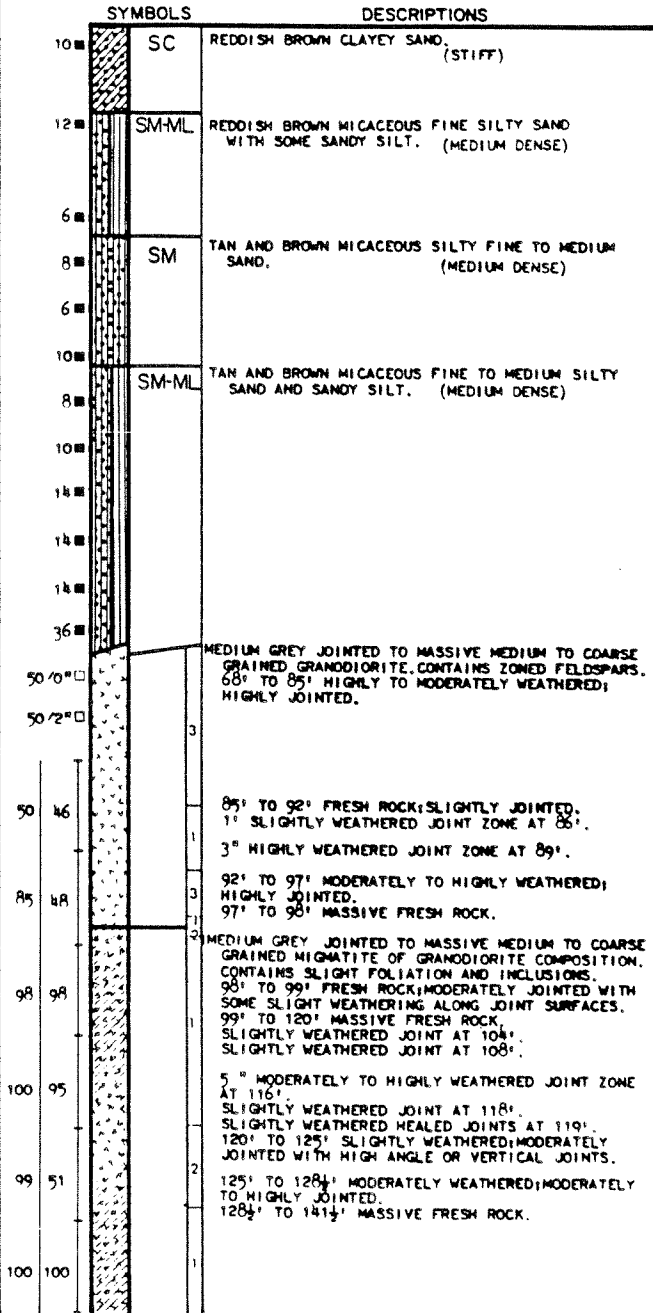


LOG OF BORING 3-13

BORING 3-14

SURFACE ELEVATION 447.9
 CO-ORDINATES N 472,670
 E 1,904,770

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0	c					24	
10						30	94
20							
30						28	90
40							
50							
60						27	86
70						27	96
80							
90							
100							
110							
120							
130							
140							



BORING CONTINUED

LOG OF BORING 3-14

BORING 3-14 CONT'D

OTHER TESTS	DIRECT TEST	SHEAR DATA	TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		

SYMBOLS	DESCRIPTIONS
74	141' TO 144' MODERATELY TO SLIGHTLY WEATHERED; MODERATELY JOINTED WITH SOME HIGH ANGLE JOINTS.
82	1' HIGHLY JOINTED ZONE AT 144'.
100	144' TO 146' SLIGHTLY WEATHERED TO FRESH ROCK; MODERATELY JOINTED.
100	146' TO 175' MASSIVE FRESH ROCK.
99	1' SLIGHTLY WEATHERED HIGH ANGLE JOINT ZONE AT 153'.
	5" MODERATELY WEATHERED JOINT ZONE AT 160'.
	3" MODERATELY WEATHERED JOINT ZONE AT 166'.

BORING TERMINATED 9-10-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

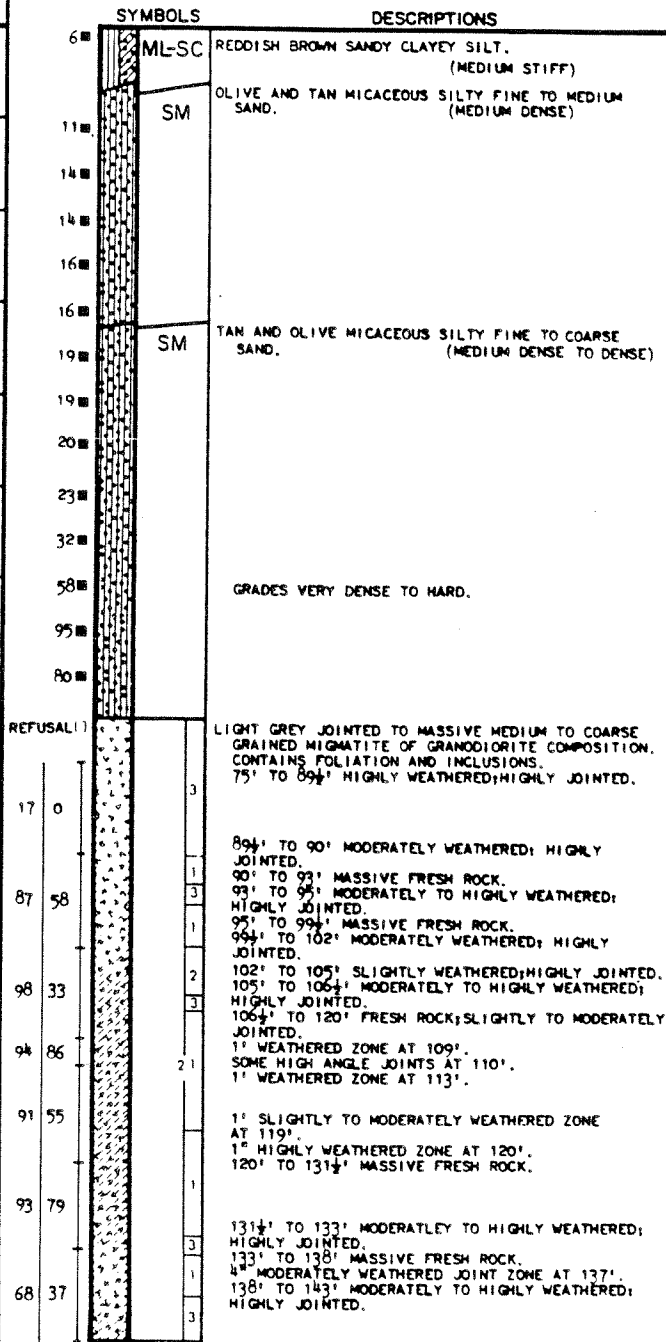
GROUND WATER LEVEL AT A DEPTH OF 62 FEET ON 10-14-71.

LOG OF BORING 3-14

BORING 3-15

SURFACE ELEVATION 451.9
 CO-ORDINATES N 472,570
 E 1,904,840

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0	C					22	
10						22	89
20							
30							
40						21	85
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							
150							



BORING TERMINATED 9-8-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

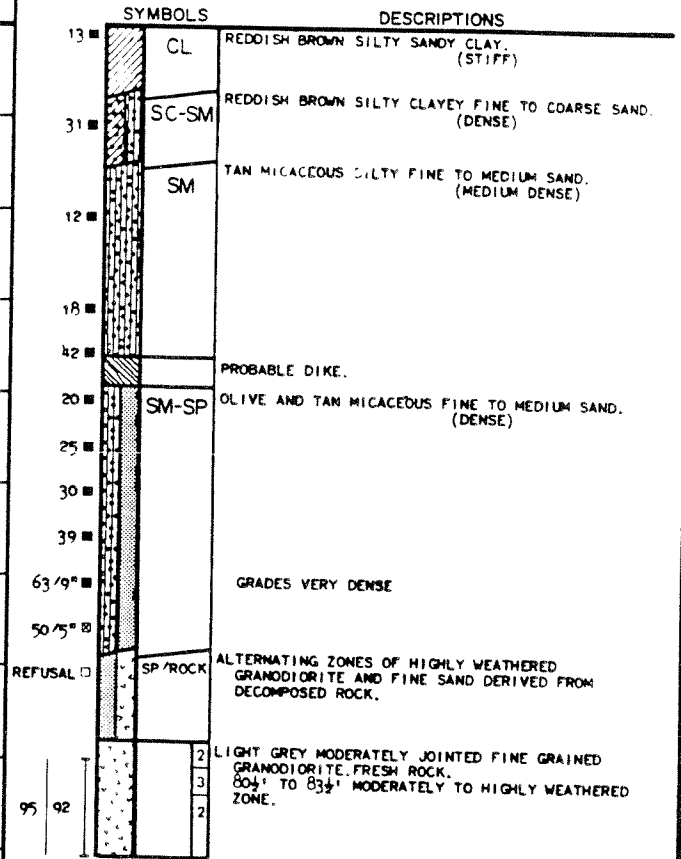
GROUND WATER LEVEL AT DEPTH 66 FEET ON 10-14-71.

LOG OF BORING 3-15

BORING 3-16

SURFACE ELEVATION 468.1
 CO-ORDINATES N 472,390
 E 1,904,840

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						20	105
20							
30						16	99
40							
50							
60	B	3500	3700			11	117
70							
80							
90							
100							



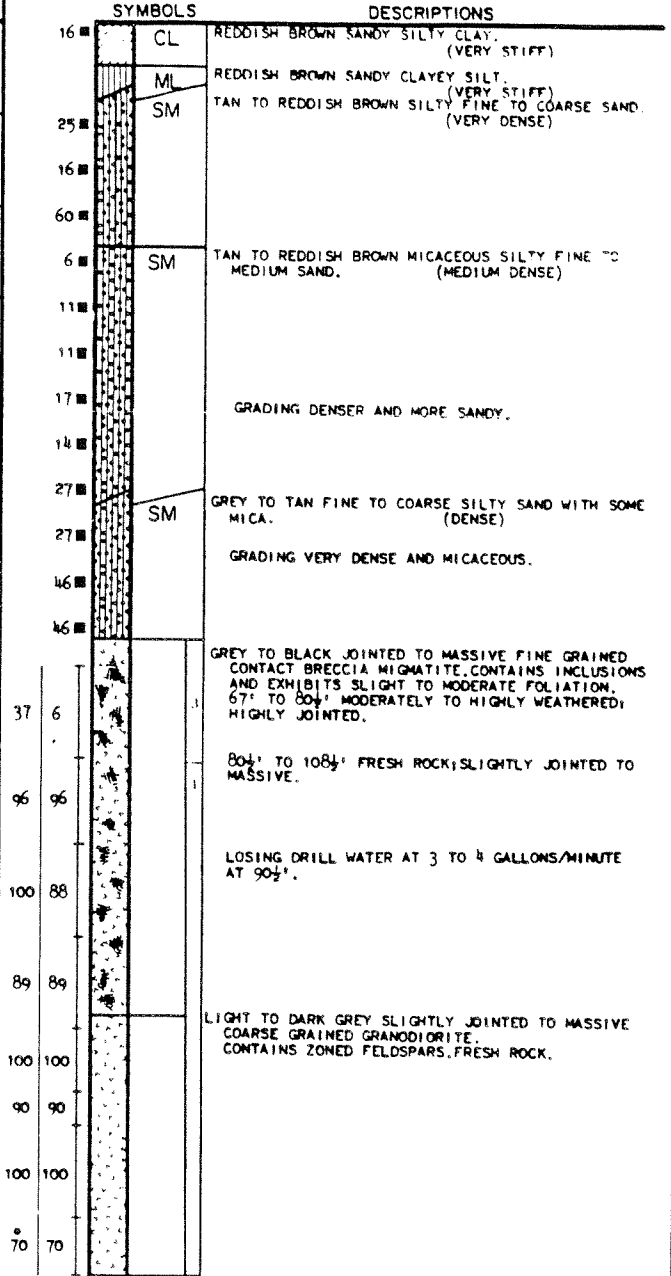
BORING TERMINATED 9-10-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING 3-16

BORING 3-17

SURFACE ELEVATION 449.8
 CO-ORDINATES N 472,725
 E 1,004,665

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10	A	1500	2420			28	94
20							
30	A	3000	2200			28	71
30	D,A					23	94
40							
50							
60						23	107
70							
80							
90							
100							
110							
120							
130							
140							



BORING TERMINATED 9-16-71

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

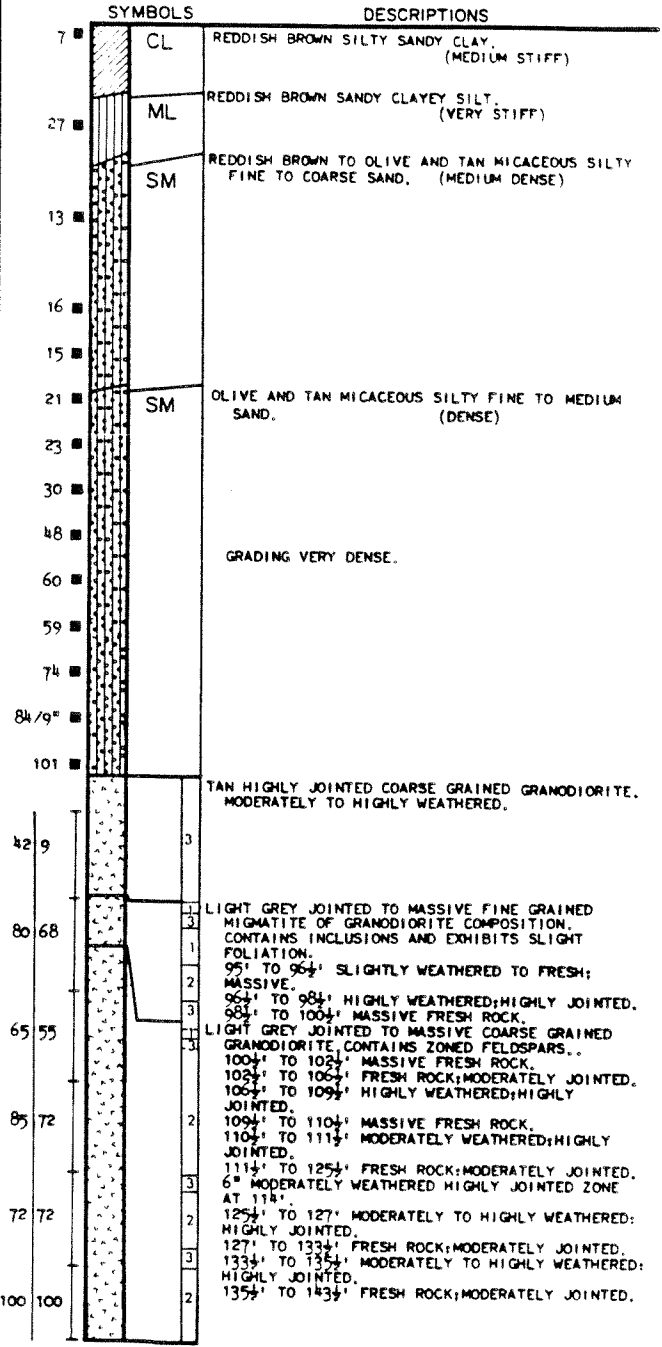
*PORTION OF ROCK CORE LEFT IN BORING, THEREFORE ACTUAL RECOVERY AND R.Q.D. ARE GREATER THAN INDICATED.

LOG OF BORING 3-17

BORING 3-18

SURFACE ELEVATION 467.1
 CO-ORDINATES N 472,600
 E 1,904,665

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						25	99
20	B	2000	2050			20	95
30							
40						20	97
50							
60							
70	C					14	
80						15	116
90							
100							
110							
120							
130							
140							
150							



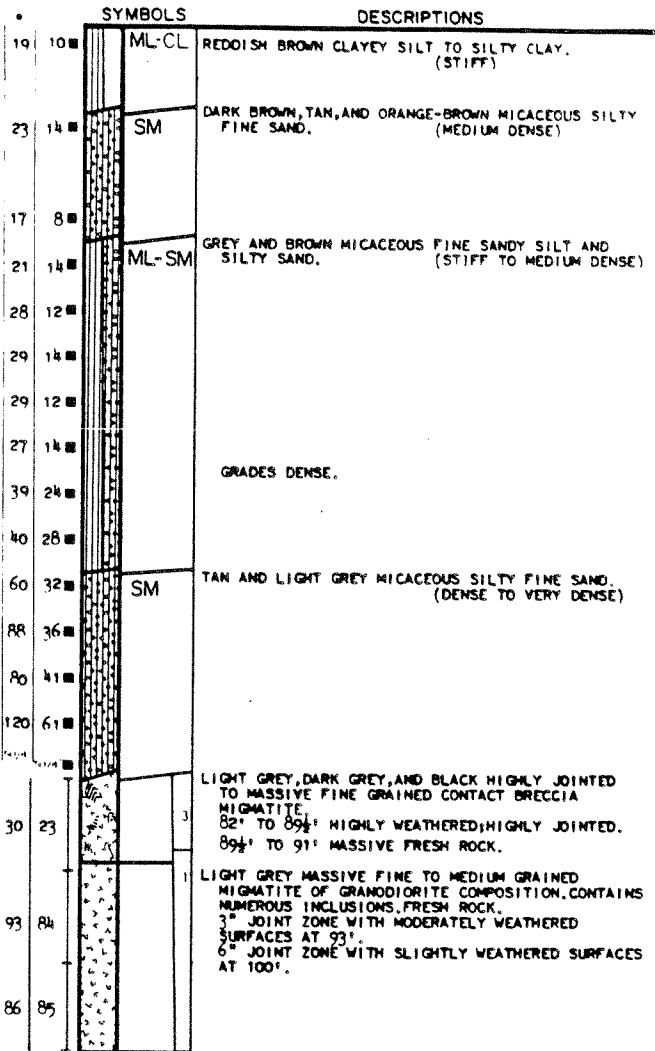
BORING TERMINATED 9-17-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING 3-18

BORING 3-19

SURFACE ELEVATION 442.6
 CO-ORDINATES N 472,545
 E 1,904,960

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20		2000	1200			31	76
30							
40						22	84
50							
60						27	78
70							
80							
90							
100							
110							
120							



BORING TERMINATED 9-13-71.

NUMBERS ENCLOSED WITHIN THE COLUMN DESIGNATED BY ASTERISK (*) INDICATE BLOWCOUNTS FROM AN ADJACENT BORING UTILIZING STANDARD PENETRATION EQUIPMENT.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE ENCLOSED WITHIN THE COLUMN DESIGNATED BY ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES.

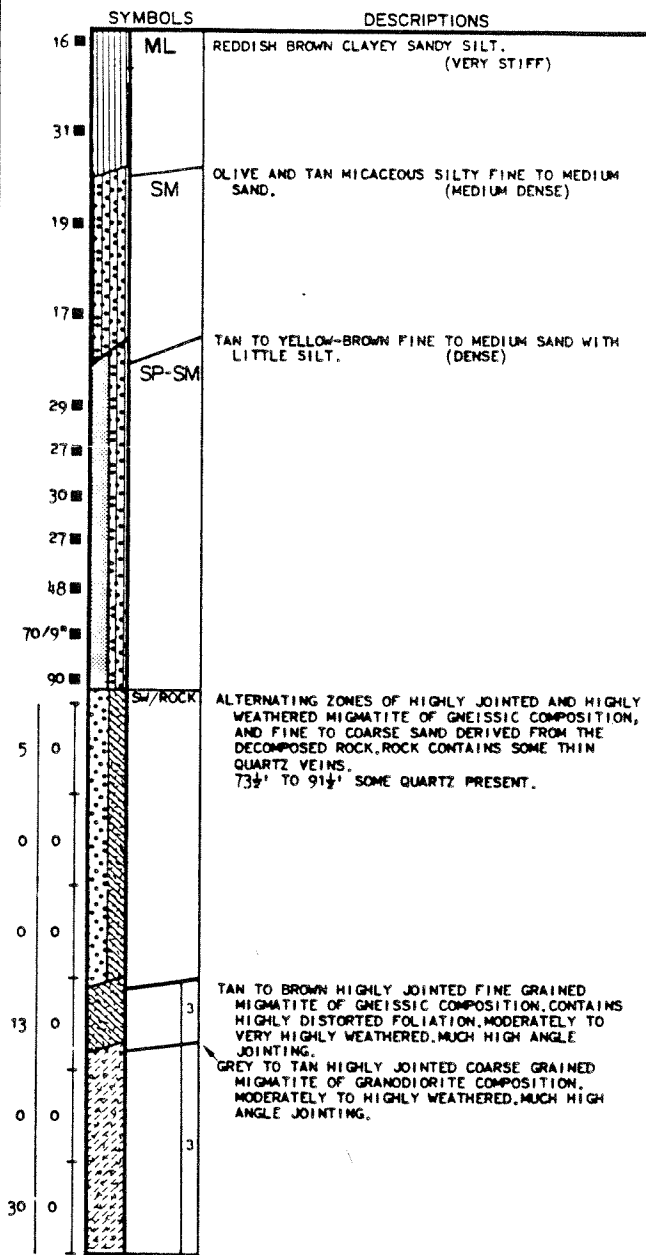
*INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING 3-19

BORING 3-20

SURFACE ELEVATION 483.4
 CO-ORDINATES N 472,390
 E 1,904,680

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0	C					26	
10	A	3000 1500	3700 2305			23 23	93 93
20						7	116
30	A					24	88
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							



BORING TERMINATED 9-13-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING 3-20

BORING AR-1

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 471,824
 E 1,904,576

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAIXIAL COMPRESSION DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						17	109
10						21	102
20							

SYMBOLS		DESCRIPTIONS
25	CL-SC	REDDISH BROWN SILTY SANDY CLAY. (HARD)
16	ML-MH	REDDISH BROWN SANDY CLAYEY SILT. (HARD)
20		
35		
21	SM	REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (DENSE)

BORING TERMINATED 10-16-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING AR-2

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 471,480
 E 1,905,428

DEPTH IN FEET	OTHER TESTS	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
0	A,C	0	8700	20	107
10	A,C			22	106
20					

SYMBOLS		DESCRIPTIONS
24	CL-ML	RED-BROWN SANDY SILTY CLAY. (HARD)
62	SC-MH	RED-BROWN CLAYEY SILT AND CLAYEY SAND. (HARD)
21	SM	REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (DENSE)
20		

BORING TERMINATED 10-16-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING AR-3

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 471,547
 E 1,906,425

DEPTH IN FEET	OTHER TESTS	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
0				21	101
10	A,C			21	95
20					

SYMBOLS		DESCRIPTIONS
26		RED-BROWN CLAYEY SILT. (FILL)
16	ML-MH	RED-BROWN SANDY CLAYEY SILT. (HARD)
18	SM	REDDISH BROWN AND BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (MEDIUM DENSE)
14		

BORING TERMINATED 10-16-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS AR-1 AR-2 & AR-3

BORING AR-4

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 471,526
 E 1,907,306

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						4	120
10							
20							

SYMBOLS		DESCRIPTIONS
25	ML	REDDISH BROWN CLAYEY SILT TO BROWN (FILL) SAND. (DENSE)
49		REDDISH BROWN SANDY CLAYEY SILT TO SANDY CLAY. (HARD)
15	SM	RED-BROWN AND BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (MEDIUM DENSE)
15		

BORING TERMINATED 10-16-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING AR-5

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 471,699
 E 1,908,130

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA	TRIAxIAL COMPRESSION TEST DATA	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
10				22	105
20					

SYMBOLS		DESCRIPTIONS
39	CL-ML	REDDISH BROWN SANDY SILTY CLAY TO CLAYEY SILT. (HARD)
50		
21	SM	REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (MEDIUM DENSE TO DENSE)
19		GRADES COARSER AND PARTIALLY GREY AND WHITE IN COLOR.

BORING TERMINATED 10-16-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING AR-6

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 471,534
 E 1,909,101

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA	TRIAxIAL COMPRESSION TEST DATA	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)	
						0
10			0	4600*	20	99
20						

*FAILED ALONG DESICCATION CRACKS

SYMBOLS		DESCRIPTIONS
28	SM-CH	REDDISH BROWN CLAYEY SILTY SAND. (FILL) (DENSE)
32		REDDISH BROWN SANDY CLAYEY SILT. (HARD)
34	SM	REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (DENSE)
20		GRADES TAN AND BROWN.

BORING TERMINATED 10-15-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS AR-4 AR-5 & AR-6

DEPTH IN FEET

OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
A					16	109

DEPTH IN FEET

					22	102

DEPTH IN FEET

A, C		0	1100*		17	109
					14	107

*SAMPLE FAILED ALONG VERTICAL SAND LENSES

BORING AR-7

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 470,950
 E 1,909,772

SYMBOLS		DESCRIPTIONS
37		REDDISH BROWN CLAYEY SAND AND SAND. (FILL) (STIFF TO DENSE)
38		REDDISH BROWN CLAYEY SAND. (DENSE)
		REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (DENSE)
		ROCK (WEATHERED)

BORING TERMINATED 10-15-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING AR-8

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 470,309
 E 1,910,450

19		REDDISH BROWN AND WHITE SILTY CLAYEY SAND. (DENSE TO VERY DENSE)
20		REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND. (DENSE)
23		ROCK (WEATHERED)

BORING TERMINATED 10-15-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING AR-9

SURFACE ELEVATION TO BE SURVEYED
 CO-ORDINATES N 470,565
 E 1,911,051

21		REDDISH BROWN CLAYEY SILTY SAND. (DENSE)
24		GRADING LESS CLAYEY AND VERY MICACEOUS.
24		TAN AND BROWN FINE TO MEDIUM SAND WITH LITTLE SILT. (DENSE)
29		GRADES WHITE IN COLOR.

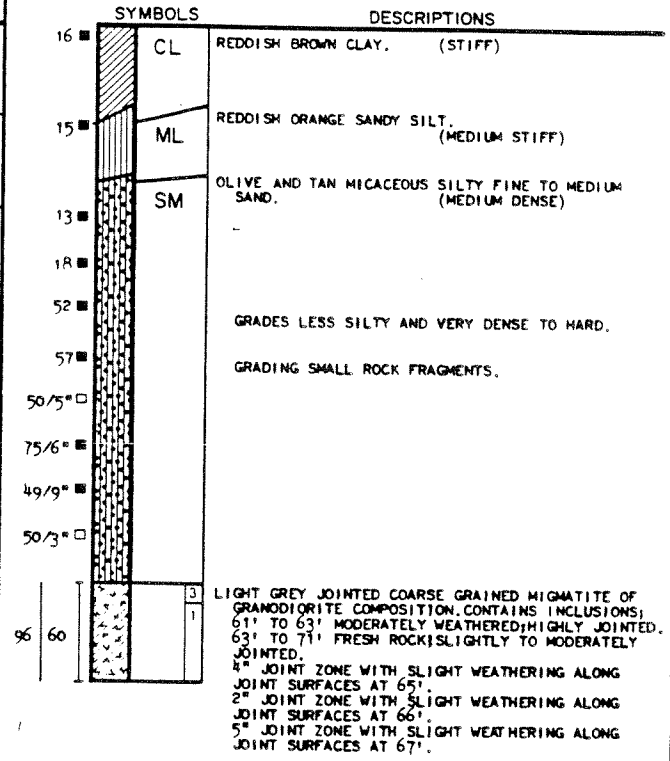
BORING TERMINATED 10-15-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS AR-7 AR-8 & AR-9

BORING CT-4

SURFACE ELEVATION 456.0
 CO-ORDINATES N 472,318
 E 1,903,700

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50		4000	5260			6	133
60							
70							
80							



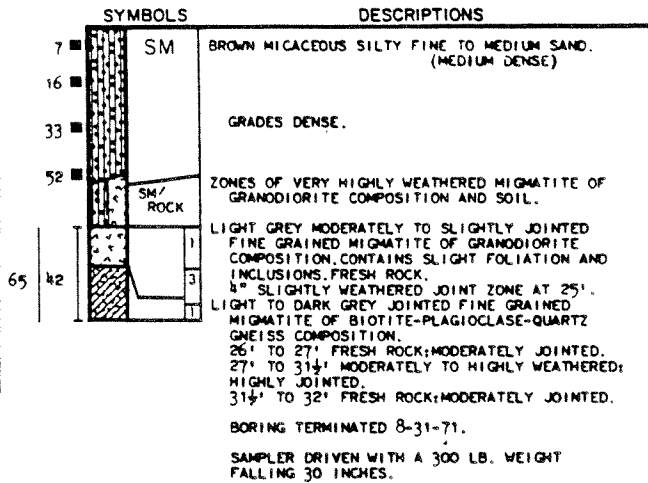
BORING TERMINATED 8-31-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING CT-4

BORING CT-5

SURFACE ELEVATION 416.1
 CO-ORDINATES N 472,318
 E 1,903,200

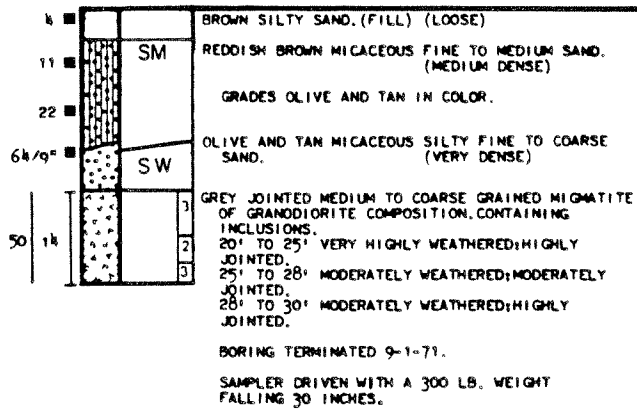
DEPTH IN FEET	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0	2000	2200					10	122
	2000	2680					15	114
10	4000	5060					10	124
20								
30								
40								



BORING CT-6

SURFACE ELEVATION 422.5
 CO-ORDINATES N 472,000
 E 1,903,500

DEPTH IN FEET	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0								
10	2000	2090					10	115
20								
30								
40								

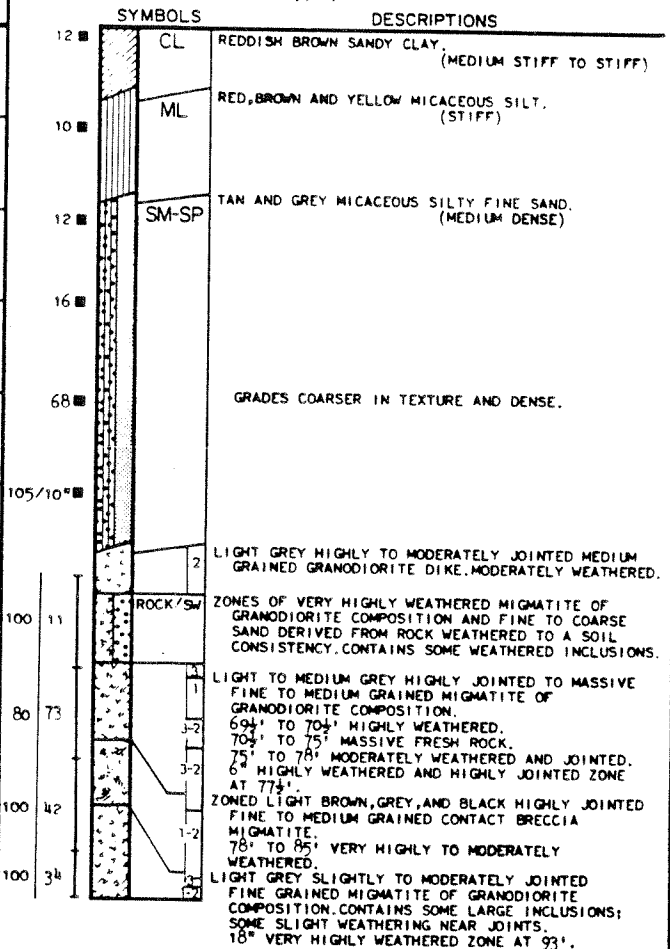


LOG OF BORINGS CT-5 & CT-6

BORING DP-1

SURFACE ELEVATION 495.0
 CO-ORDINATES N 472,130
 E 1,904,200

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAXIAL COMPRESSION TEST		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									



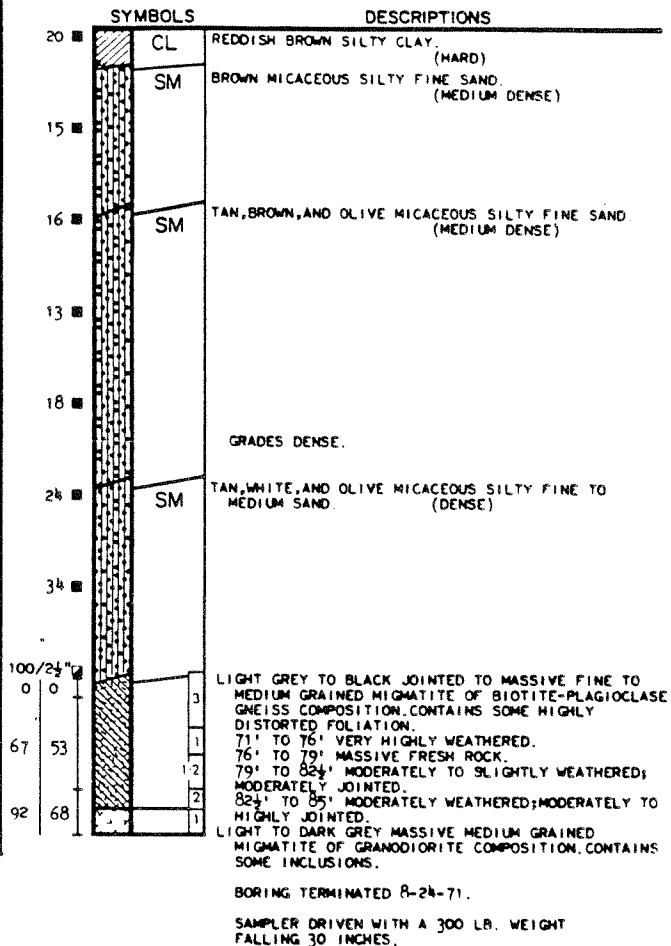
BORING TERMINATED 8-23-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING DP-1

BORING DP-2

SURFACE ELEVATION 488.2
 CO-ORDINATES N 472,150
 E 1,904,700

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						20	87
20							
30						17	94
40							
50						12	108
60		3500	3860			12	113
70							
80							
90							



LOG OF BORING DP-2

BORING DP-3

SURFACE ELEVATION 425.5
 CO-ORDINATES N 472,130
 E 1,905,200

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10		1500	1520			24	93
20							
30							

SYMBOLS		DESCRIPTIONS
4	CL	REDDISH BROWN MICACEOUS SILTY CLAY (SOFT TO MEDIUM STIFF)
	SM	TAN AND OLIVE MICACEOUS SILTY FINE TO COARSE SAND.
9		GRADES PARTIALLY BLACK IN COLOR.
7K		
25		VERY LIGHT GREY TO LIGHT TAN AND BLACK HIGHLY TO MODERATELY JOINTED COARSE GRAINED GRANODIORITE.
	3	21' TO 24' HIGHLY WEATHERED.
	2	24' TO 26' SLIGHTLY WEATHERED WITH MODERATE WEATHERING ALONG JOINTS. MODERATELY JOINTED.
	SP	TAN MICACEOUS FINE TO MEDIUM SAND.

BORING TERMINATED 8-23-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING DP-4

SURFACE ELEVATION 443.7
 CO-ORDINATES N 471,980
 E 1,905,700

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA	TRIAxIAL COMPRESSION TEST DATA	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
0					
10		1500	1550	21	96
20					
30		3000	2690	17	91
40					
50					
60					

SYMBOLS		DESCRIPTIONS
9	SC	REDDISH BROWN SANDY CLAY (SOFT TO MEDIUM STIFF)
	SM	TAN AND GREY MICACEOUS FINE TO MEDIUM SILTY SAND.
10		
8		
12		
6		
8		GRADES VERY DENSE.

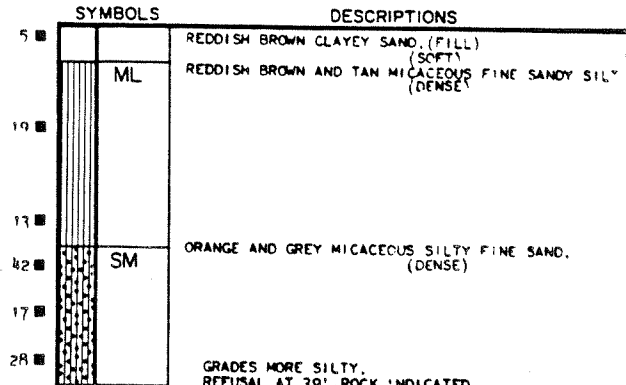
BORING TERMINATED 8-24-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS DP-3 & DP-4

BORING DP-5

SURFACE ELEVATION 426.9
 CO-ORDINATES N 471,750
 E 1,906,300

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10		2000	2740			20	76
20						20	88
30							
40							



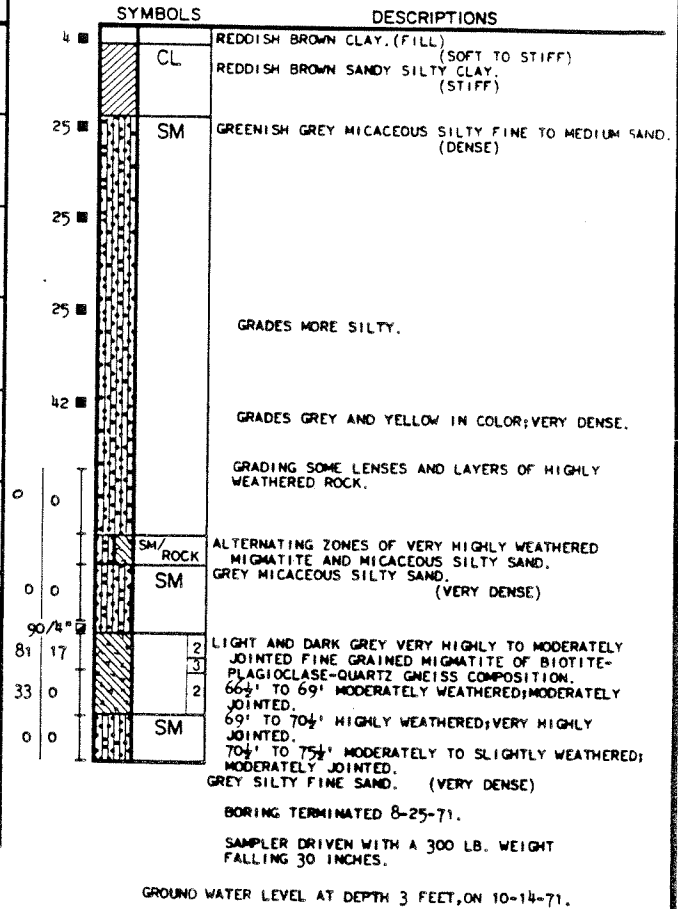
GRADES MORE SILTY.
 REFUSAL AT 30', ROCK INDICATED.
 BORING TERMINATED 8-24-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT
 FALLING 30 INCHES.

LOG OF BORING DP-5

BORING ECP-1

SURFACE ELEVATION 367.1
 CO-ORDINATES N 472,600
 E 1,905,350

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10		2000	2540			16	114
20							
30		4000	3730			30	95
40							
50							
60							
70							
80							
90							

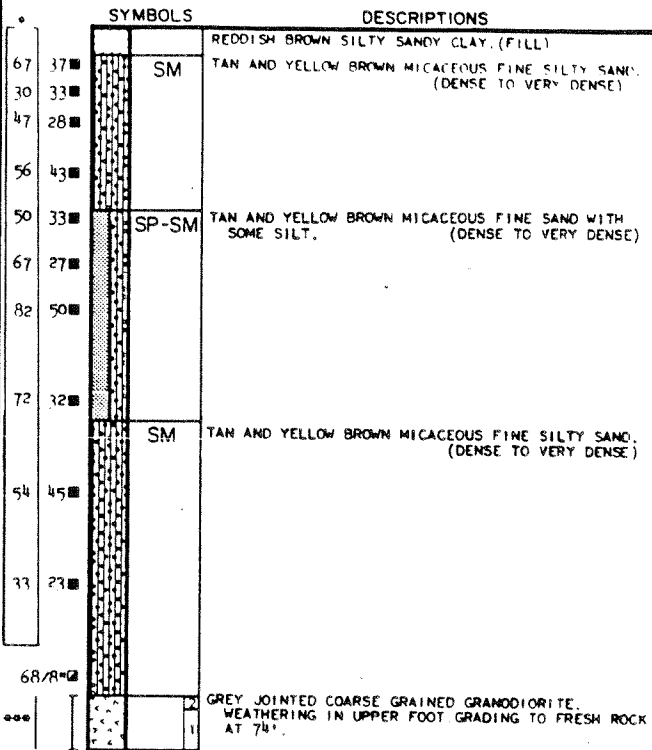


LOG OF BORING ECP-1

BORING ECP-2

SURFACE ELEVATION 364.0
 CO-ORDINATES N 472,700
 E 1,305,370

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL STRESS (PSF)	SHEAR STRENGTH (PSF)	CONFINING STRESS (PSF)	DEVIATION STRESS (PSF)		
0							
10		3000	2910			23	101
20							
30						22	102
40							
50						25	96
60							
70						32	92
80							



BORING TERMINATED 9-20-71.

NUMBERS ENCLOSED WITHIN THE COLUMN DESIGNATED BY ONE ASTERISK(*) INDICATE BLOWCOUNTS OBTAINED FROM AN ADJACENT BORING UTILIZING STANDARD PENETRATION EQUIPMENT.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE ENCLOSED WITH THE COLUMN DESIGNATED BY ONE ASTERISK(*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES.

*INDICATES STANDARD PENETRATION TESTS.

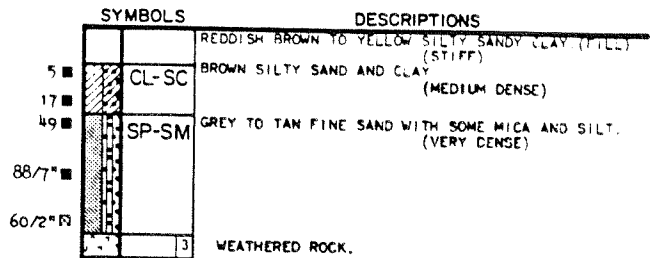
*** CORE BARREL NOT RECOVERED.

LOG OF BORING ECP-2

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10		2000	2340			16	108
20		3000	4290			15	116
30							

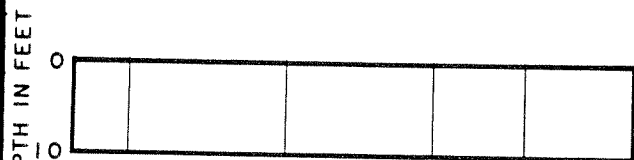
BORING ECP-3

SURFACE ELEVATION 354.8
 CO-ORDINATES N 472,800
 E 1,905,500



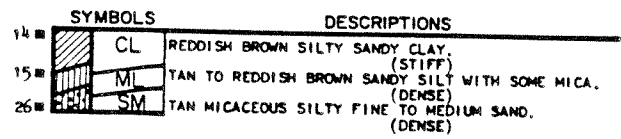
BORING TERMINATED 9-21-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.



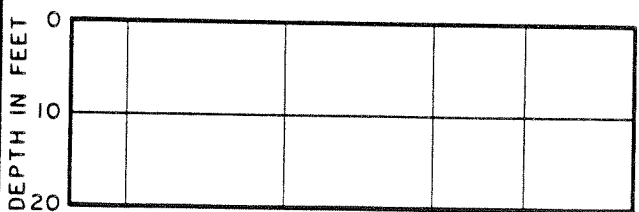
BORING ECP-4

SURFACE ELEVATION 434.0
 CO-ORDINATES N 472,502
 E 1,905,035



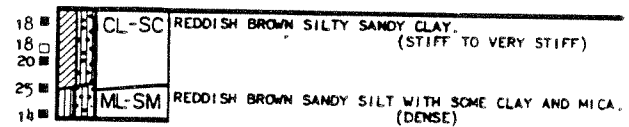
BORING TERMINATED 10-5-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.



BORING ECP-5

SURFACE ELEVATION 427.6
 CO-ORDINATES N 472,360
 E 1,905,062



BORING TERMINATED 10-5-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.




LOG OF BORINGS ECP-3 ECP-4 & ECP-5

BORING ECP-6

SURFACE ELEVATION 438.1
 CO-ORDINATES N 472,219
 E 1,905,090

DEPTH IN FEET

OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						
10						

7		SM	REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND.
12			
11			




BORING TERMINATED 10-5-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT
 FALLING 30 INCHES.

BORING ECP-7

SURFACE ELEVATION 427.3
 CO-ORDINATES N 472,089
 E 1,905,143

DEPTH IN FEET

0						
10						

16		CL-SC	REDDISH BROWN MICACEOUS SILTY SANDY CLAY. (VERY STIFF)
24		SM	REDDISH BROWN MICACEOUS SILTY FINE TO MEDIUM SAND.
10			




BORING TERMINATED 10-5-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT
 FALLING 30 INCHES.

BORING ECP-8

SURFACE ELEVATION 428.2
 CO-ORDINATES N 471,972
 E 1,905,194

DEPTH IN FEET

0						
10						

11		MI	REDDISH BROWN MICACEOUS SANDY CLAYEY SILT. (STIFF)
12		ML-SM	REDDISH BROWN MICACEOUS CLAYEY SILT AND SAND. (MEDIUM DENSE)
15		SM	REDDISH BROWN MICACEOUS SILTY FINE TO COARSE SAND. (MEDIUM DENSE)

BORING TERMINATED 10-6-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT
 FALLING 30 INCHES.

LOG OF BORINGS ECP-6 ECP-7 & ECP-8

BORING IP-3

SURFACE ELEVATION 420.7
 CO-ORDINATES N 473,000
 E 1,905,000

OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		

SYMBOLS		DESCRIPTIONS
16	CL-ML	BROWN AND OLIVE SILTY CLAY TO SILTY SAND (DENSE)
18/6		BLACK JOINTED FINE GRAINED ULTRA MAFIC INTRUSIVE ROCK.
	SM	BROWN AND OLIVE SILTY SAND. (DENSE)
		BLACK JOINTED FINE GRAINED ULTRA MAFIC INTRUSIVE ROCK.
		HARD FRESH HIGHLY FRAGMENTED ROCK WITH WEATHERED ZONES.
		12' TO 13' VERY HIGHLY WEATHERED.
		16' TO 18' VERY HIGHLY WEATHERED.

BORING TERMINATED 8-30-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING IP-4

SURFACE ELEVATION 424.0
 CO-ORDINATES N 472,800
 E 1,905,000

OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
	2500	1930			9	89

SYMBOLS		DESCRIPTIONS
17	CL	REDDISH BROWN SILTY CLAY. (STIFF)
15	SM	REDDISH BROWN MICACEOUS SILTY FINE SAND. (MEDIUM DENSE)
16		GRADES TAN AND OLIVE IN COLOR.
16		
16		
12		
14		

BORING TERMINATED 8-30-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS IP-3 & IP-4

OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0								
10								
20								
30								
40								

BORING J-1

SURFACE ELEVATION 417.2
 CO-ORDINATES N 476,970
 E 1,905,800

SYMBOLS		DESCRIPTIONS
16	SM	REDDISH BROWN SILTY FINE TO COARSE SAND WITH SOME CLAY IN UPPER 3'. (MEDIUM DENSE) GRADING SOME OLIVE COLOR, SOME MICA AND OCCASIONAL CEMENTED ZONES.
20	ML	TAN TO BROWN MICACEOUS FINE SANDY SILT. (MEDIUM DENSE)
20	SM	TAN AND BROWN FINE TO COARSE SAND WITH SOME MICA. (MEDIUM DENSE TO DENSE)
31		
28		

BORING TERMINATED 10-1-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

OTHER TESTS	DIRECT TEST	SHEAR DATA	TRIAxIAL COMPRESSION TEST DATA	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
0					
10					
20					
30					

BORING J-2

SURFACE ELEVATION 430.2
 CO-ORDINATES N 474,306
 E 1,906,831

SYMBOLS		DESCRIPTIONS
22	SM	REDDISH BROWN TO TAN SILTY FINE TO MEDIUM SAND WITH SOME MICA. (DENSE) GRADING PARTLY CEMENTED.
47/6	ROCK/SM	ALTERNATING ZONES OF HIGHLY WEATHERED AND JOINTED GREY TO BLACK FINE GRAINED MICHATITE AND GREY TO BLACK SILTY FINE TO COARSE SAND.
51/3		
50/3		
26		
1		
8		

BORING TERMINATED 9-30-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

OTHER TESTS	DIRECT TEST	SHEAR DATA	TRIAxIAL COMPRESSION TEST DATA	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
0					
10					
20					
30					

BORING J-3

SURFACE ELEVATION 408.9
 CO-ORDINATES N 475,498
 E 1,906,773

SYMBOLS		DESCRIPTIONS
25	CL	REDDISH BROWN, SILTY SANDY CLAY. (VERY STIFF)
35	ML	REDDISH BROWN SANDY CLAYEY SILT. (DENSE)
15	SM	REDDISH BROWN TO TAN MICACEOUS SILTY FINE TO MEDIUM SAND. (MEDIUM DENSE TO DENSE)
13		
26		
57	SM-SP	TAN AND GREY MICACEOUS SILTY FINE TO MEDIUM SAND. (VERY DENSE)
57/6		

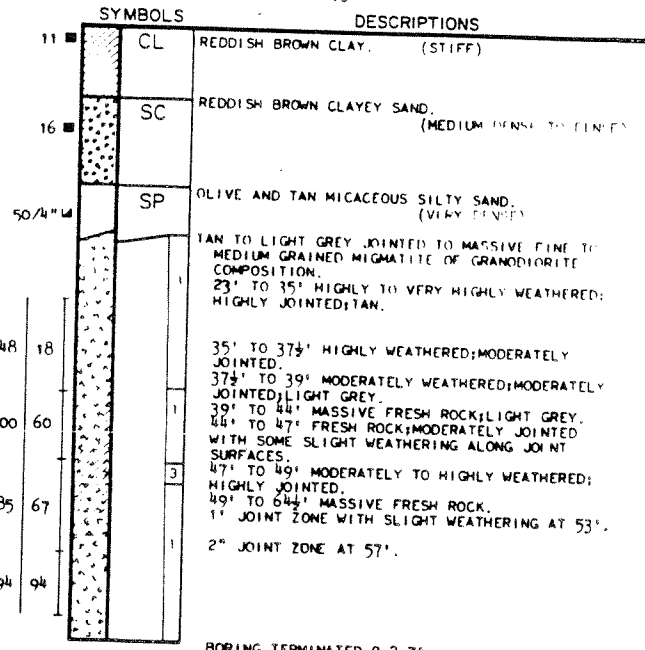
BORING TERMINATED 9-30-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS J-1 J-2 & J-3

BORING SSA-6

SURFACE ELEVATION 482.7
 CO-ORDINATES N 471,830
 E 1,904,293

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0		2000	3020			22	92
10	A					24	105
20							
30							
40							
50							
60							
70							

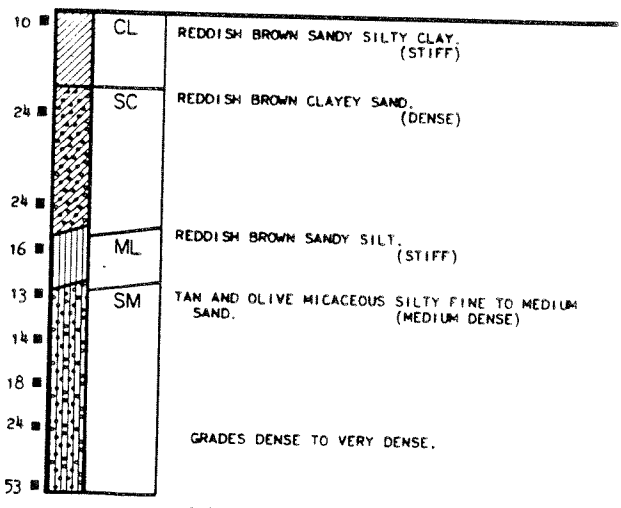


BORING TERMINATED 9-2-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING SSA-7

SURFACE ELEVATION 460.5
 CO-ORDINATES N 471,635
 E 1,904,508

DEPTH IN FEET	OTHER TESTS	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
0							
10							
20							
30							
40						20	101
50							
60							



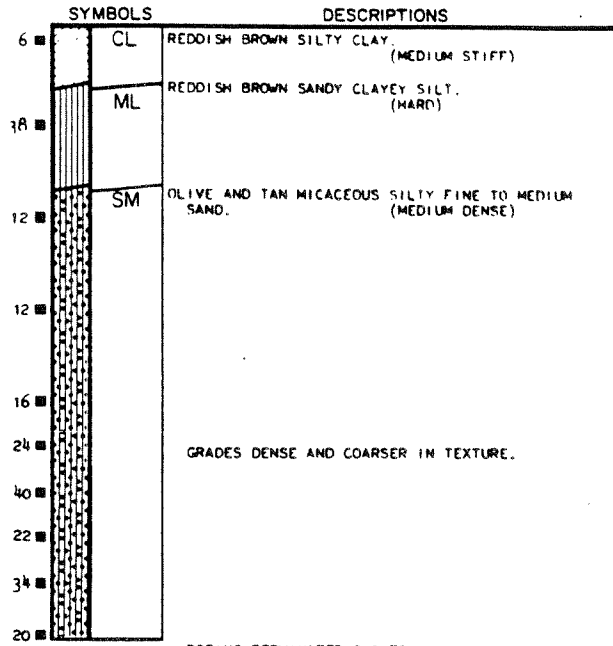
BORING TERMINATED 9-1-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS SSA-6 & SSA-7

BORING SSA-8

SURFACE ELEVATION 478.6
 CO-ORDINATES N 471,895
 E 1,904,550

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0								22	97
10									
20									
30									
40									
50		3000	2830					14	109
60								19	103
70									

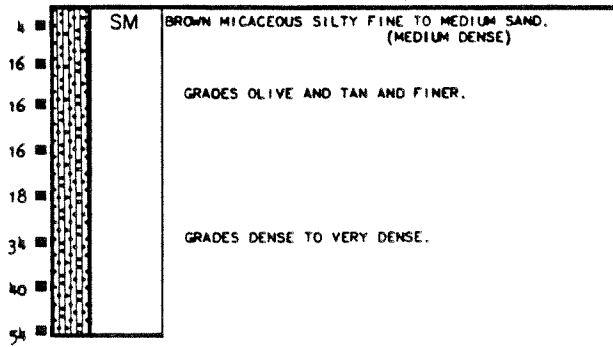


BORING TERMINATED 9-1-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING SSA-9

SURFACE ELEVATION 443.9
 CO-ORDINATES N 471,545
 E 1,904,703

DEPTH IN FEET	OTHER TESTS	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
0							
10						15	101
20							
30							
40							



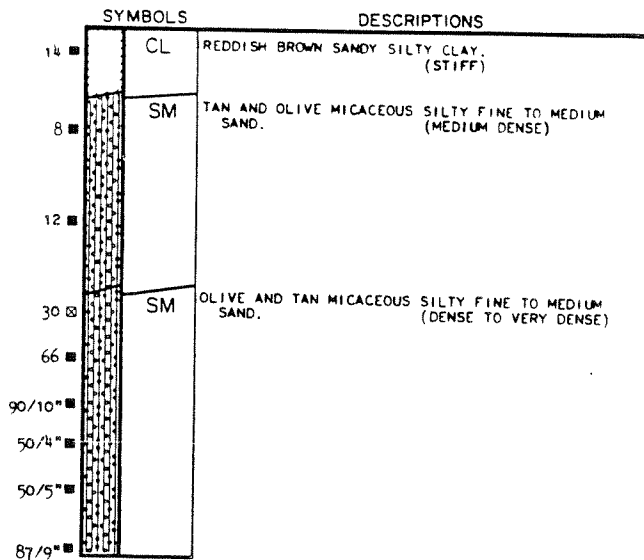
BORING TERMINATED 9-1-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS SSA-8 & SSA-9

BORING SSA-10

SURFACE ELEVATION 467.0
 CO-ORDINATES N 471,795
 E 1,904,850

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10	A					18	94
20							
30	A	4000	5480			10	113
40							
50						13	116
60							



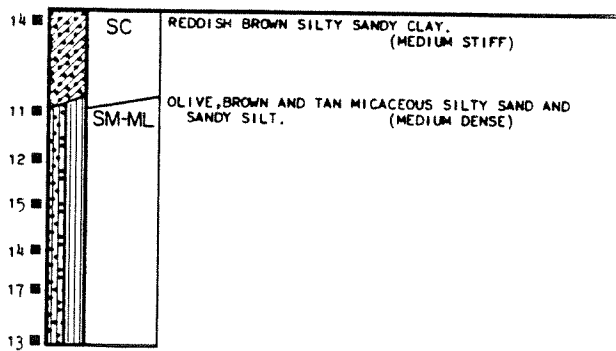
BORING TERMINATED 9-1-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING SSA-II

SURFACE ELEVATION 444.0
 CO-ORDINATES N 471,635
 E 1,905,090

DEPTH IN FEET	OTHER TESTS	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
0							
10							
20						23	87
30							
40							



BORING TERMINATED 9-2-71.

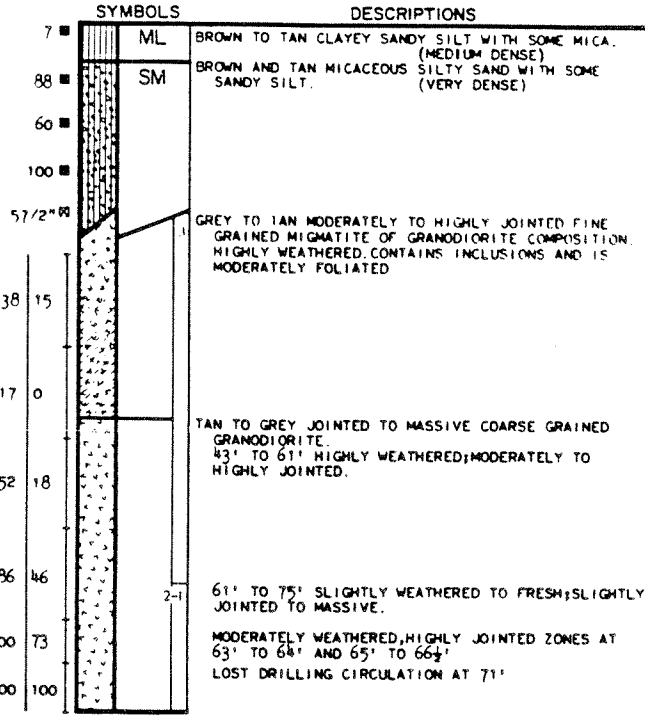
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORINGS SSA-10 & SSA-II

BORING SWP-1

SURFACE ELEVATION 382.8
 CO-ORDINATES N 473,100
 E 1,905,480

OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0						
10						
20						
30						
40						
50						
60						
70						
80						



BORING TERMINATED 9-24-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING SWP-1

BORING SWP-2

SURFACE ELEVATION 340.3
 CO-ORDINATES N 473,170
 E 1,905,750

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									
70									
80									

SYMBOLS		DESCRIPTIONS
		CLAY (FILL FOR ACCESS)
2 30	SP	BROWN FINE TO MEDIUM SAND WITH SOME MICA AND SILT. (SOFT TO LOOSE)
2 31		GRADING WITH LESS SILT.
2 32		GRADING SOME GRAVEL AND COBBLES.
17 33		
31 34	SM	GREY TO BROWN MICACEOUS SILTY FINE TO COARSE SAND (DENSE)
50 35		23' TO 52' OCCASIONAL HIGHLY WEATHERED ROCK ZONES.
57/9" 36		
67/9" 37		
85/8" 38		
63/11" 39		
94 76		LIGHT TO DARK GREY SLIGHTLY JOINTED TO MASSIVE, COARSE GRAINED MIGMATITE OF GRANODIORITE COMPOSITION. CONTAINS INCLUSIONS AND EXHIBITS SLIGHT FOLIATION. SLIGHTLY WEATHERED TO FRESH.
100 95		HIGHLY WEATHERED JOINT ZONE AT 58' AND 70' TO 72'.
95 66		4" HIGHLY WEATHERED JOINT ZONE AT 64'.
		6" HIGHLY WEATHERED JOINT ZONE AT 67'.
		2" HIGHLY WEATHERED JOINT ZONE AT 71'.

BORING TERMINATED 9-22-71.

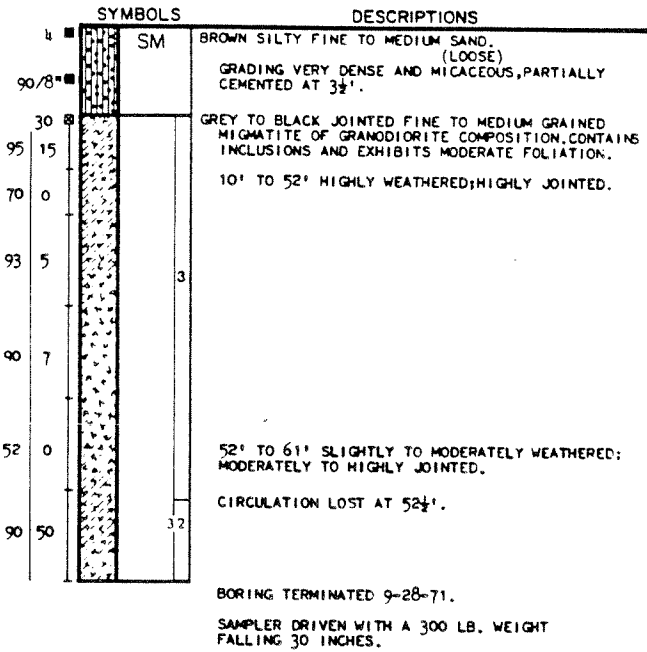
SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

LOG OF BORING SWP-2

BORING SWP-3

SURFACE ELEVATION 393.2
 CO-ORDINATES N 473,250
 E 1,906,050

DEPTH IN FEET	OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							

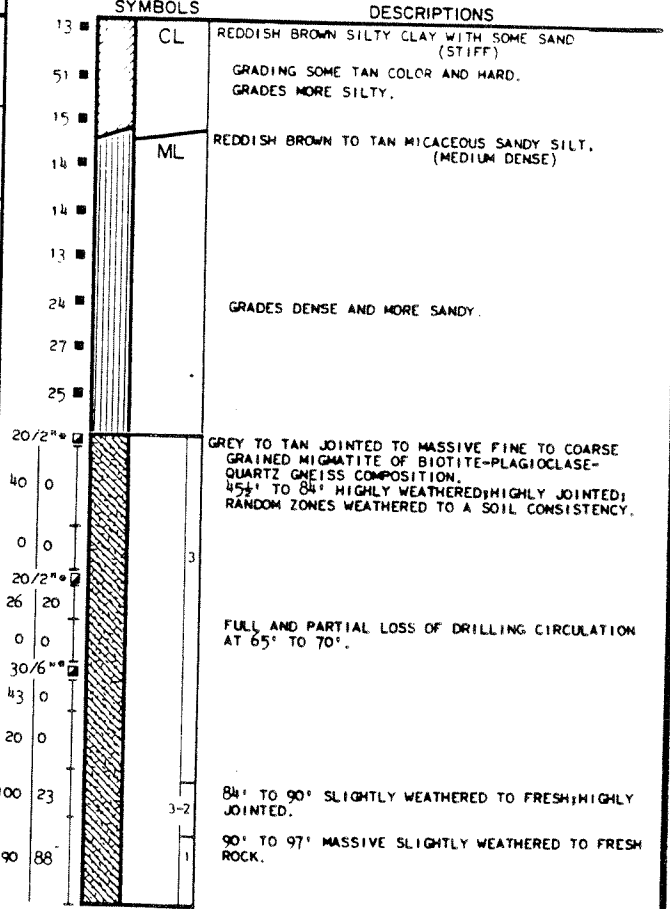


LOG OF BORING SWP-3

BORING SWP-4

SURFACE ELEVATION 418.0
 CO-ORDINATES N 473,430
 E 1,907,110

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							



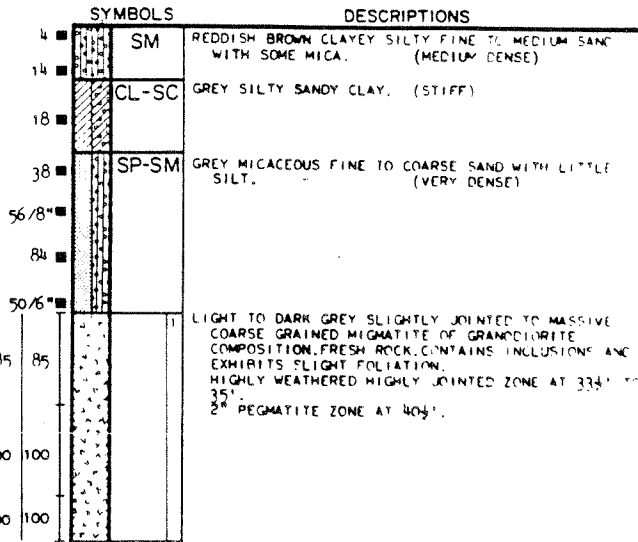
BORING TERMINATED 9-30-71.
 SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES, EXCEPT WHERE DESIGNATED BY AN ASTERISK (*) WHICH INDICATES A 140 LB. WEIGHT FALLING 30 INCHES.
 *INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING SWP-4

BORING SWP-5

SURFACE ELEVATION 370.9
 CO-ORDINATES N 472,140
 E 1,906,670

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							



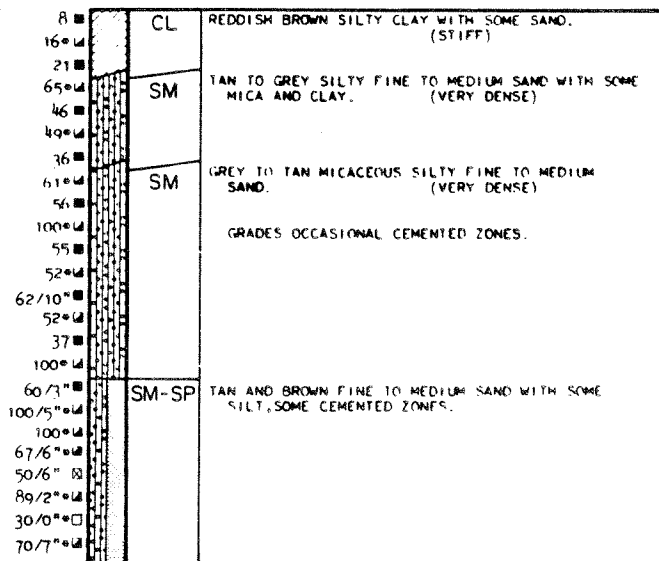
BORING TERMINATED 9-29-71.

SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

BORING SWP-6

SURFACE ELEVATION 410.9
 CO-ORDINATES N 471,964
 E 1,906,511

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							

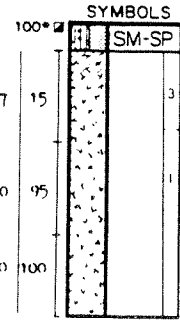


BORING CONTINUED

LOG OF BORINGS SWP-5 & SWP-6

BORING SWP-6 CONT'D

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAIXIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
60							
70							
80							
90							
100							



DESCRIPTIONS

LIGHT TO DARK GREY JOINTED TO MASSIVE, COARSE GRAINED MIGMATITE OF GRANODIORITE COMPOSITION CONTAINS INCLUSIONS AND EXHIBITS SLIGHT FOLIATION.
 63 1/2' TO 71 1/2' HIGHLY WEATHERED; HIGHLY JOINTED.
 71 1/2' TO 42' MASSIVE FRESH ROCK.

6" HIGHLY JOINTED ZONE AT 81 1/2'.

BORING TERMINATED 10-7-71.

DAMES AND MOORE SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.

* STANDARD SPLIT SPOON SAMPLER DRIVEN WITH A 180 LB. WEIGHT FALLING 30 INCHES.

* INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING SWP-6

BORING SWP-7

SURFACE ELEVATION 410.4
 CO-ORDINATES N 472,206
 E 1,906,810

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							

DEPTH (FEET)	SYMBOLS	DESCRIPTIONS
40	SM	YELLOW TAN MICACEOUS SILTY FINE TO MEDIUM SAND (DENSE)
81	SP-SM	GREY TO TAN MICACEOUS FINE TO MEDIUM SAND WITH LITTLE SILT. (VERY DENSE)
50		GRADING SOME CEMENTATION AT 75'.
102		
83/9		
105		
112		
101/6		
120		
105/7		
70/6		
164/10		
174/7		
100/6		
120/4		
100/2		
50	J	GREY TO TAN JOINTED TO MASSIVE COARSE GRAINED MIGMATITE OF GRANODIORITE COMPOSITION. CONTAINS INCLUSIONS AND EXHIBITS SLIGHT FOLIATION.
100		40' TO 52' HIGHLY WEATHERED; HIGHLY JOINTED.
95	67	52' TO 70': SLIGHTLY WEATHERED TO FRESH; SLIGHTLY JOINTED TO MASSIVE.
		HIGHLY WEATHERED JOINTS AT 56 1/2' TO 59'.
79	68	HIGHLY WEATHERED, HIGHLY JOINTED ZONE AT 64' TO 66'.

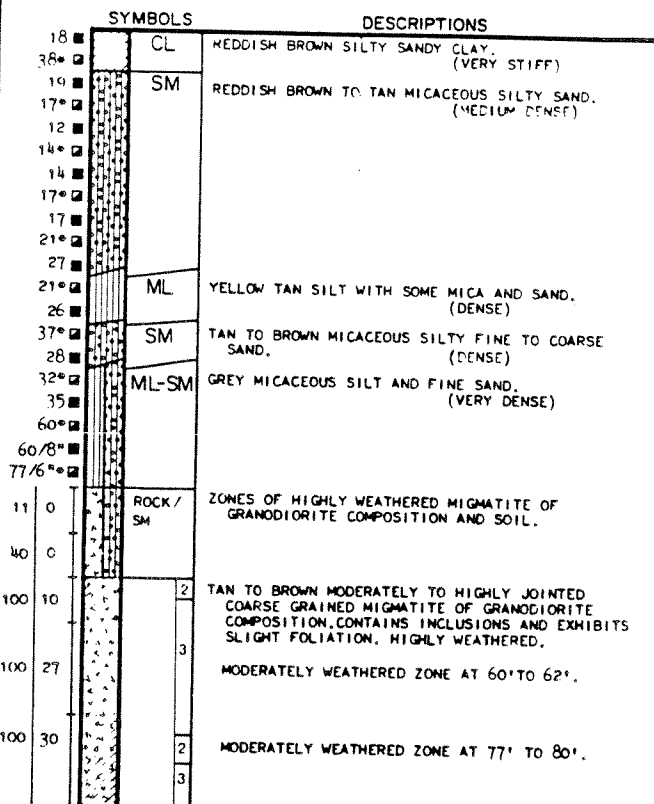
BORING TERMINATED 10-13-71
 DAMES AND MOORE SAMPLER DRIVEN WITH A 300 LB. WEIGHT FALLING 30 INCHES.
 *SPLIT SPOON DRIVEN WITH A 140 LB. WEIGHT FALLING 30 INCHES.
 *INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING SWP-7

BORING SWP-8

SURFACE ELEVATION 420.5
 CO-ORDINATES N 471,450
 E 1,906,960

DEPTH IN FEET	OTHER TESTS	DIRECT TEST SHEAR DATA		TRIAIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							



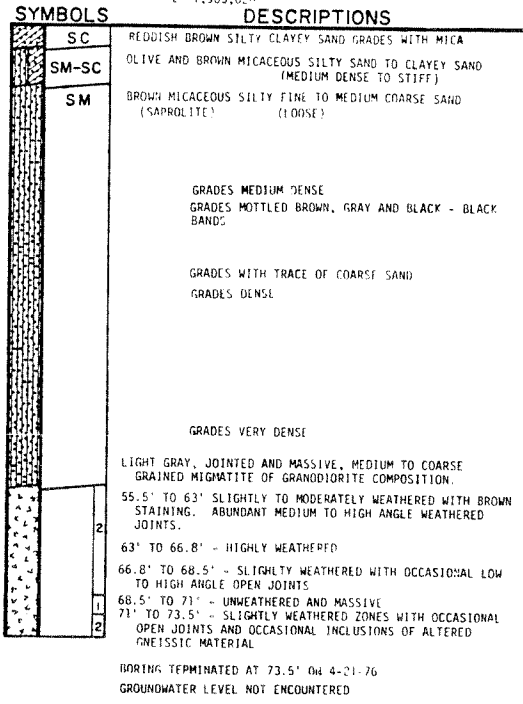
BORING TERMINATED 10-11-71
 SAMPLER DRIVEN WITH 300 LB. WEIGHT
 FALLING 30 INCHES.
 *SPLIT SPOON DRIVEN WITH A 140 LB. WEIGHT
 FALLING 30 INCHES.
 *INDICATES STANDARD PENETRATION TESTS.

LOG OF BORING SWP-8

BORING 4-1

SURFACE ELEVATION 436
 CO-ORDINATES N 472.420
 E 1,905.020

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0								15	
10								15	
20				1500	2015	}		14	86
				3000	4601			12	
				6000	7051			9	
30								9	
40								12	87
50								11	101
								10	
								7	
60									
70									
80									



NOTES:

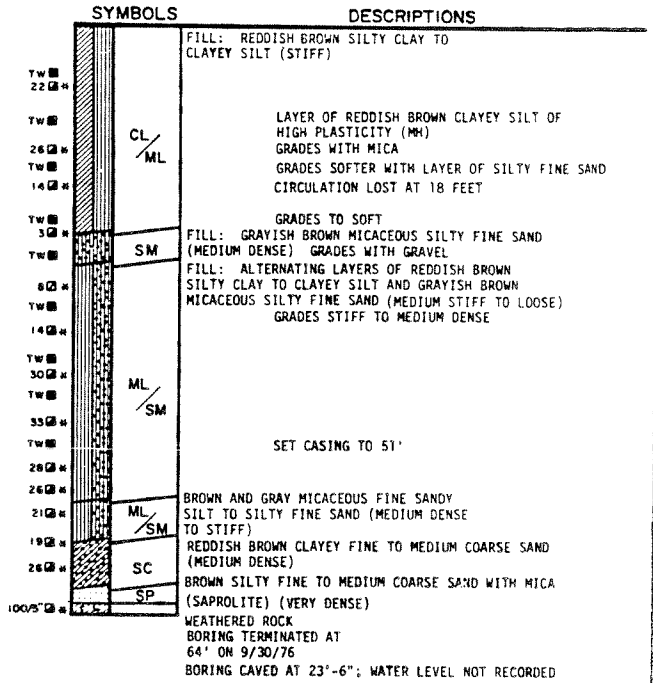
- ☐ indicates DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- ☐ indicates NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- ☐ indicates UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- ☐ indicates DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- ☐ indicates NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- ☐ indicates UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-1

BORING 4-2

SURFACE ELEVATION 433.05
 COORDINATES N 472,474.22
 E 1,905,182.55

OTHER TESTS	DIRECT TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
	NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
					27.0	98.4
					22.9	99.7
					24.4	96.6
					24.3	95.9
					28.5	84.0
					23.2	104.6
					23.9	99.8
					22.7	104.0
					24.2	100.8



NOTES:

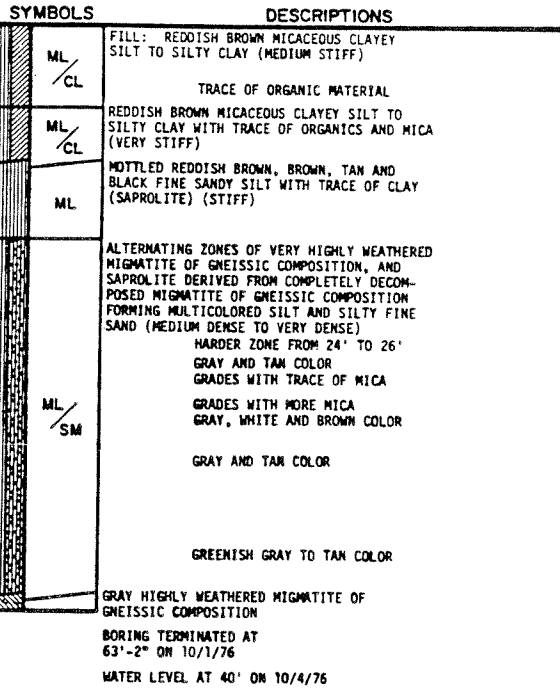
- INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- TW ■ INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW □ INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW □ INDICATES NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TYBE HYDRAULICALLY PUSHED

LOG OF BORING 4-2

BORING 4-3

SURFACE ELEVATION 414.28
 COORDINATES N 472, 561.62
 E 1,905,088.60

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							



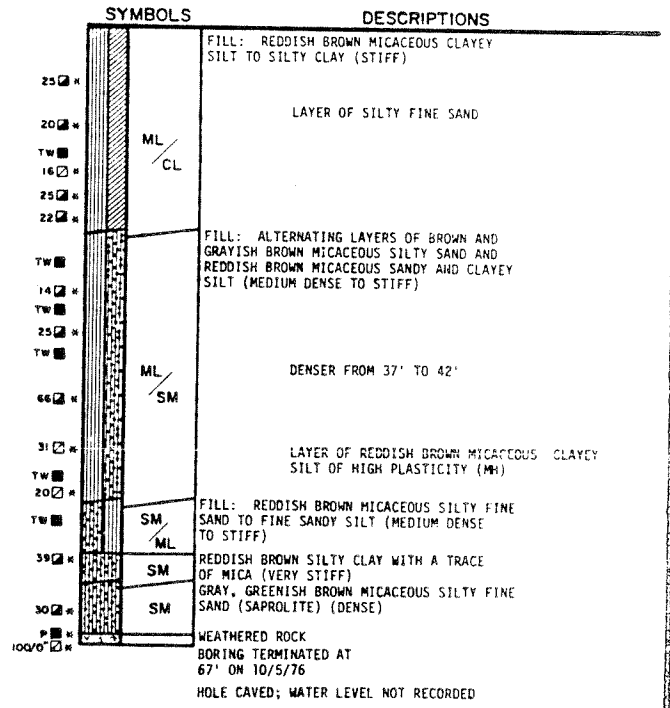
- NOTES:
- ⊠ INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
 - ⊡ INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
 - ⊢ INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
 - ⊣ INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
 - ⊤ INDICATES NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
 - ⊥ INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-3

BORING 4-4

SURFACE ELEVATION 434.24
 COORDINATES N 472,476.12
 E 1,905,203.30

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10	B					27.7	94.2
20						18.9	108.3
30						22.0	103.5
40						20.8	106.3
50						22.6	103.5
60						21.5	104.0
70							



NOTES:

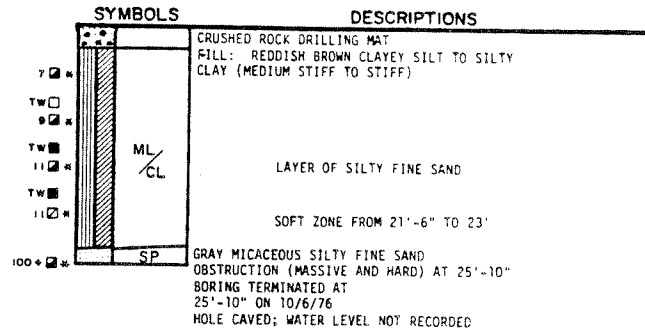
- INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- TW ■ INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW □ INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW □ INDICATES NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- P ■ INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-4

BORING 4-5

SURFACE ELEVATION 432.83
 COORDINATES N 472,463.70
 E 1,905,156.30

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						26.3	88.5
20						27.6	98.6
30							



NOTES:

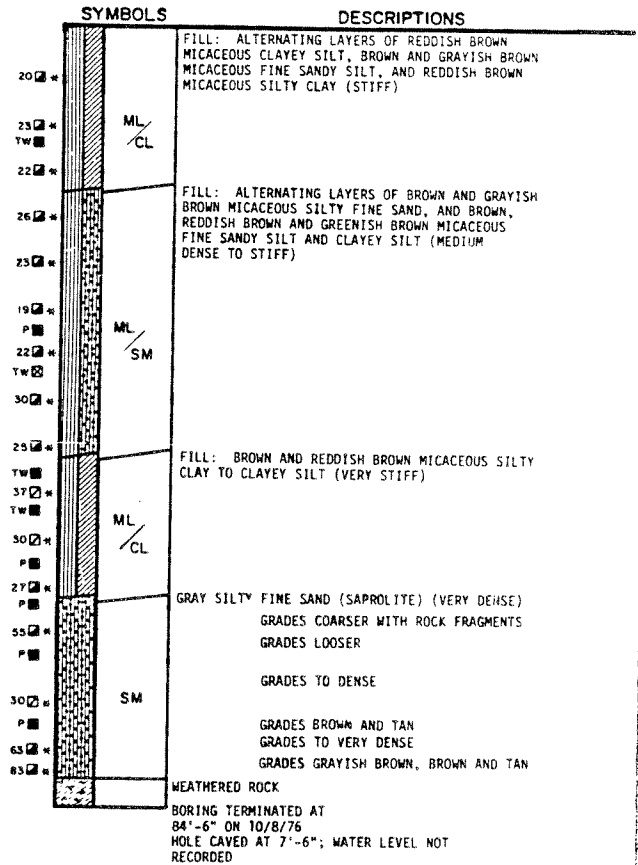
- 9 ■ INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- 9 □ INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- TW ■ INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW □ INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW □ INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- P ■ INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-5

BORING 4-6

SURFACE ELEVATION 435.68
 COORDINATES N 472,392.82
 E 1,905,270.70

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							



NOTES:

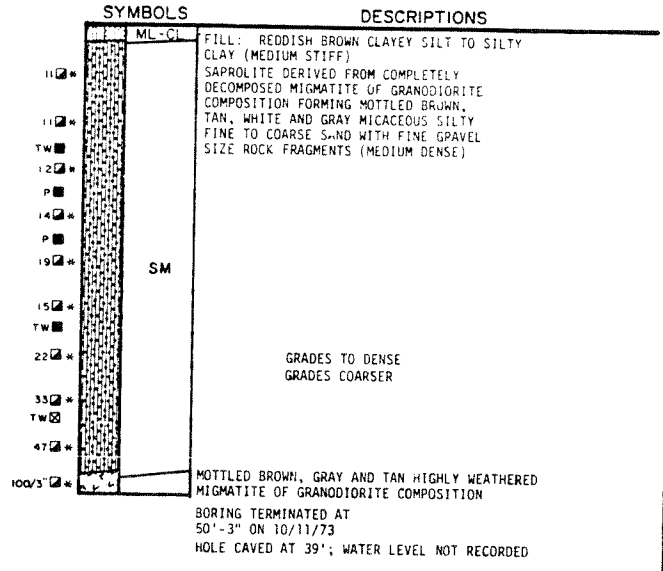
- ☐ INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- ☐ INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- ☐ INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- ☐ INDICATES NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-6

BORING 4-7

SURFACE ELEVATION 435.67
 COORDINATES N 471,843.48
 E 1,905,726.82

DEPTH IN FEET	OTHER TESTS	DIRECT TEST		SHEAR DATA		TRIAxIAL COMPRESSION TEST		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)				
0									
10									
20									
30									
40									
50									
60									



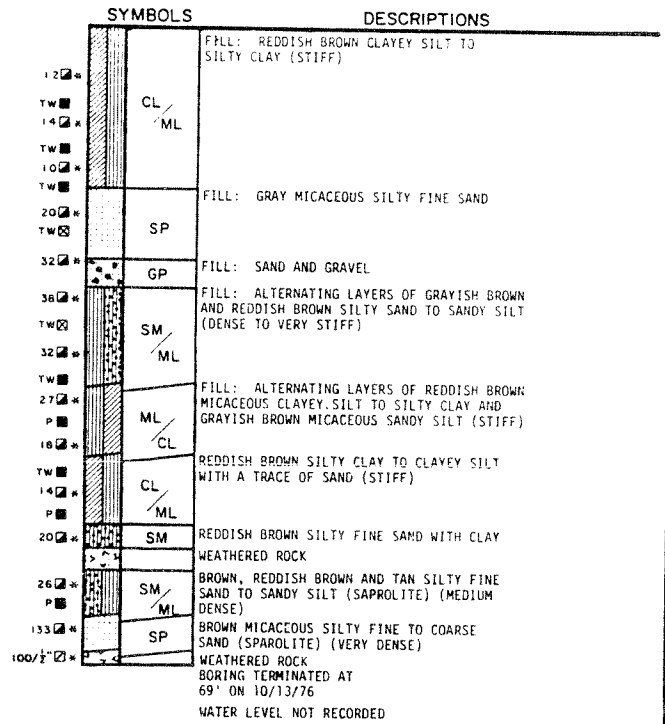
- NOTES:
- 9 INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
 - 9 INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
 - TW INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
 - TW INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
 - TW INDICATES NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
 - P INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-7

BORING 4-8

SURFACE ELEVATION 432.9
 COORDINATES N 472,519.12
 E 1,905,162.43

DEPTH IN FEET	OTHER TESTS	DIRECT SHEAR TEST DATA		TRIAxIAL COMPRESSION TEST DATA		FIELD MOISTURE CONTENT (PERCENT)	DRY DENSITY (LBS/CU. FT.)
		NORMAL PRESSURE (PSF)	SHEAR STRENGTH (PSF)	CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)		
0							
10						25.7	99.1
20						27.3	91.8
30							
40						21.4	105.1
50						18.8	106.2
60							
70							



NOTES:

- 9' TW INDICATES DISTURBED SAMPLE WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- 9' TW INDICATES NO RECOVERY WITH 2 INCH O.D. SAMPLER (STANDARD PENETRATION TEST)
- YW TW INDICATES UNDISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW TW INDICATES DISTURBED SAMPLE WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- TW TW INDICATES NO RECOVERY WITH DAMES & MOORE TYPE U SAMPLER AND THIN-WALLED SAMPLING TUBE ATTACHMENT HYDRAULICALLY PUSHED
- P TW INDICATES UNDISTURBED SAMPLE WITH 3 INCH O.D. SHELBY TUBE HYDRAULICALLY PUSHED

LOG OF BORING 4-8