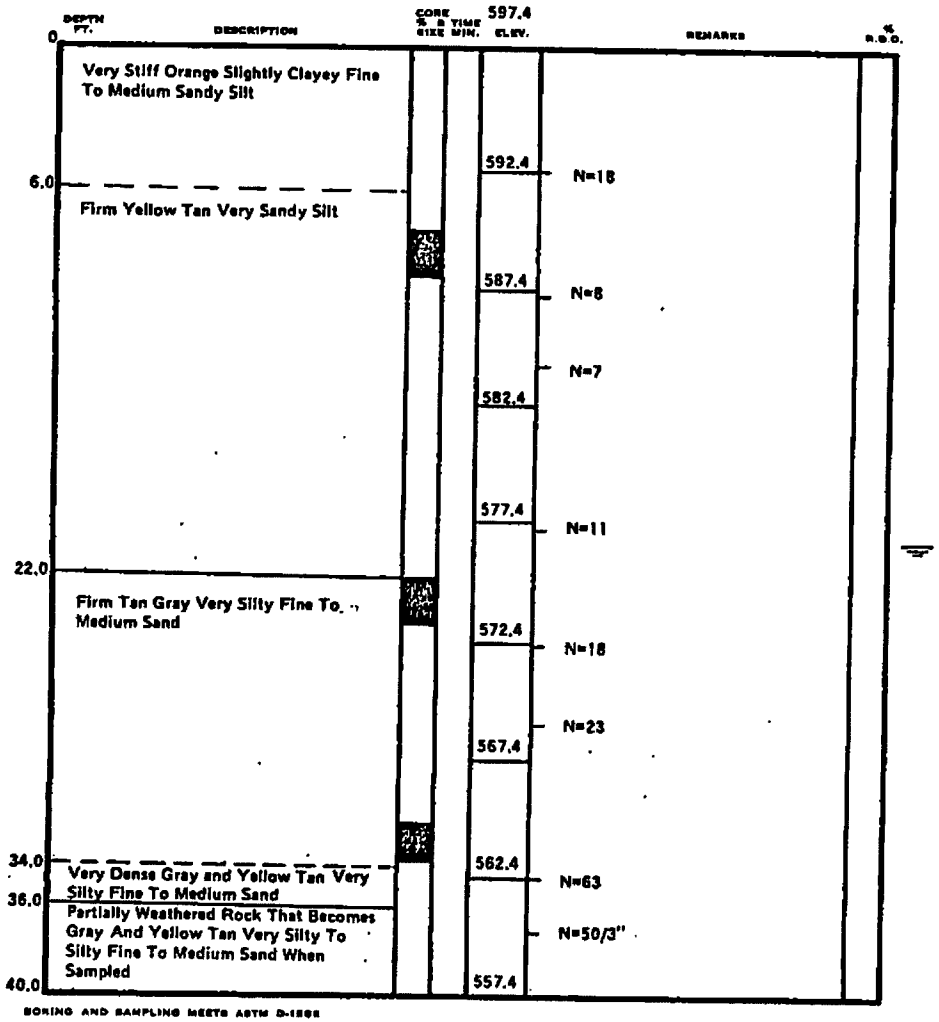
APPENDIX 2BB
Cherokee Nuclear Station Geotechnical Boring Logs

WLS COL 2.5-1 This Appendix contains historic geotechnical boring logs developed as part of the Cherokee Nuclear Station Project investigation, and a list of the included borings (189 in total).

CNS Geotechnical Boring Logs Included in Appendix 2BB

	B38	B70	B140P	B220	B287
	B39P	B71	B141P	B221	B289
	B40	B72	B142P	B222	B290
	B41	B74	B143P	B223	B291
	B42	B75	B144AP	B224	B292
	B44	B77	B144P	B225	B293
	B45	B77AP	B145P	B226	B294
	B45AP	B77BP	B146P	B227	B295
	B45BP	B77CP	B147P	B229	B296
	B45CP	B78	B148P	B230	B297
	B45D	B79	B149P	B231	B343
	B45E	B80	B150P	B232	B344
	B45F	B82	B151P	B233	B495
	B45G	B83AP	B152P	B234	B496
	B46	B83P	B153P	B235	B498
	B47	B84P	B154P	B236	B505
	B48	B86	B155P	B237	B506
	B49	B89P	B156P	B238	B507
WLS COL 2.5-1	B50	B90P	B157P	B239	B508
	B51	B91P	B158P	B240	B526
	B52	B92P	B159P	B241	B527
	B53	B93P	B160P	B242	B528
	B54	B94P	B161P	B243	B529
	B55P	B95P	B162P	B244	B530
	B56	B96P	B163P	B245	B558
	B57	B97P	B164P	B246	B682
	B58	B98P	B165P	B247	B683
	B59	B99	B166P	B248	B684
	B61	B100	B167P	B249	B685
	B62AP	B128P	B168P	B251	B686
	B62BP	B129P	B186P	B252	B687
	B62P	B130P	B187P	B253	BW44
	B63P	B131P	B213	B254	BW45
	B64	B132P	B214	B262	
	B65P	B136AP	B215	B263	
	B66	B136P	B216	B280	
	B67	B137P	B217	B281	
	B68	B138P	B218	B285	
	B69P	B139P	B219	B286	



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

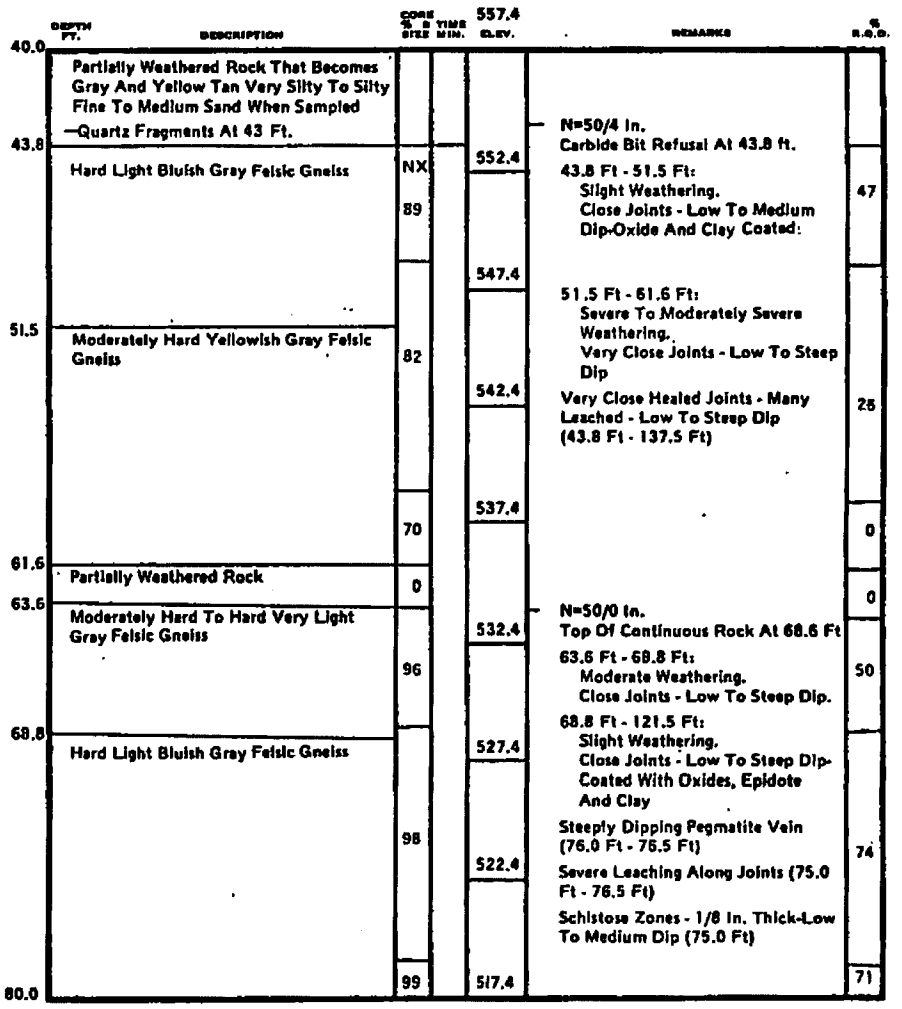
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-38
DATE DRILLED 7-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

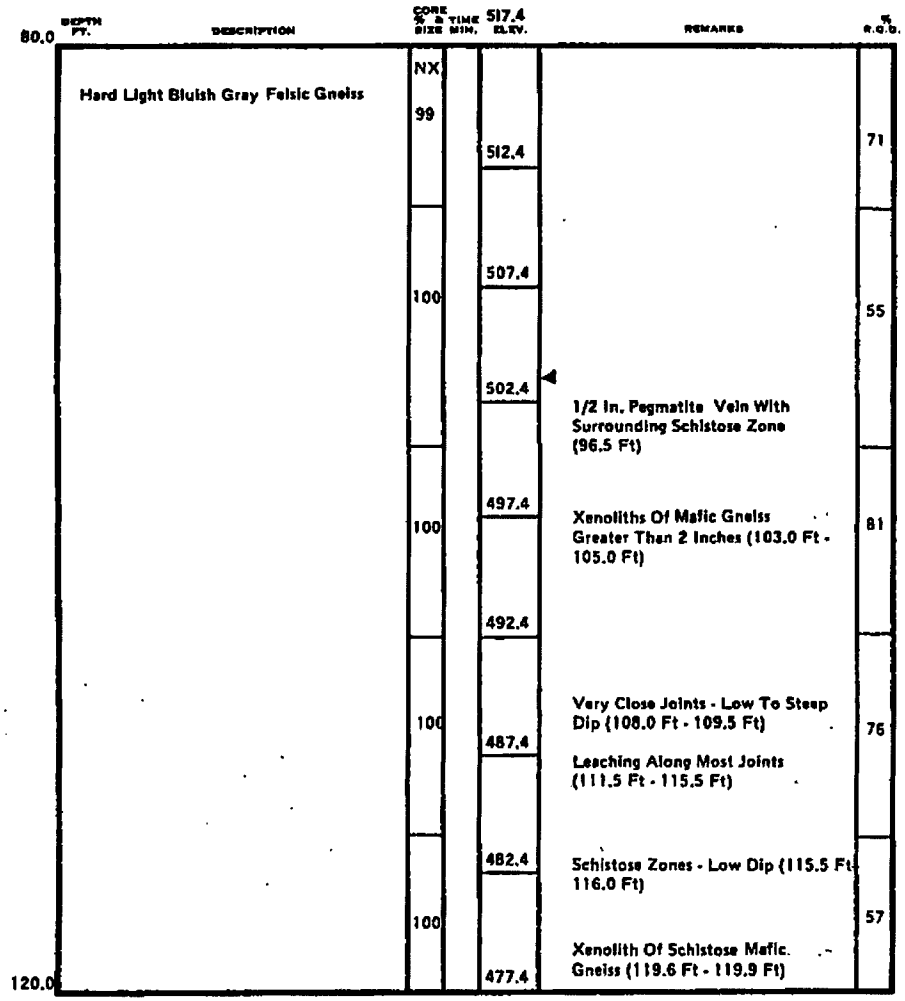
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-38
DATE DRILLED 7-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

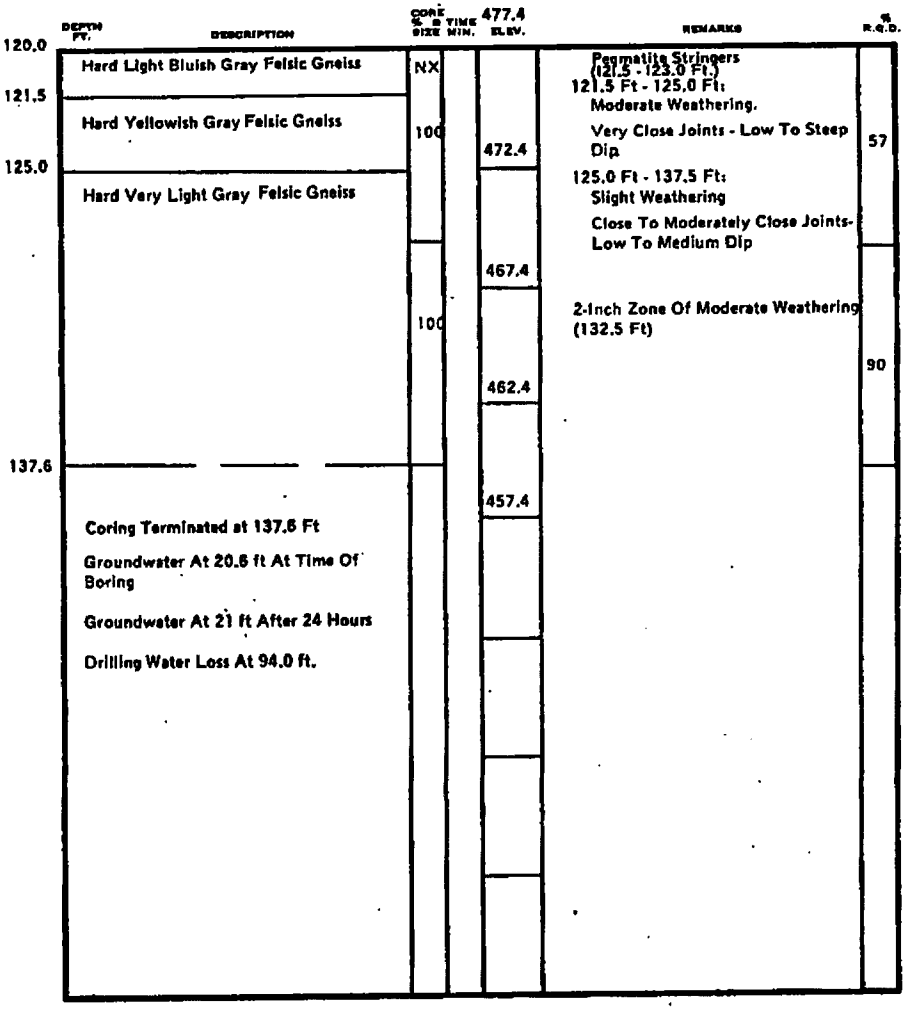
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-38
DATE DRILLED 7-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-38
DATE DRILLED 7-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

575.4

DEPTH FT.	DESCRIPTION	CORE % & TIME SIZE MIN.	ELEV.	REMARKS	% R.Q.D.
0			570.4	N=17 Firm Red-Brown Silty Very Slightly Clayey Fine Sand	
			565.4		
			560.4	N=16 Very Stiff Dark Brown Very Micaceous Silt	
			555.4		
			550.4	N=17 Very Stiff Light Brown-Gray Micaceous Sandy Silt	
			545.4		
			540.4	N=42 Dense Tan Moderately Micaceous Silty Fine To Medium Sand	
40.0			535.4		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-39P
DATE DRILLED 10-25-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

535.4

DEPTH FT.	DESCRIPTION	CORE % & TIME SIZE MIN.	ELEV.	REMARKS	% R.Q.D.
40.0			530.4	N=59 Very Dense Tan Moderately Micaceous Silty Fine To Medium Sand	
				N=42 Dense Tan Moderately Micaceous Silty Fine To Medium Sand	
			525.4	N=45 Hard Tan-Light Brown Slightly Micaceous Silty Fine To Coarse Sand	
54.3	Partially Weathered Rock That Becomes Tan-Brown Fine To Medium Sandy Silt When Sampled		520.4	N=50/2"	
			515.4	N=50/2" No Recovery	
			510.4	N=50/0" NW Casing To 64.0 ft.	
	Silty Fine To Medium Sand Layer At 71 ft.		505.4	N=50/1" No Recovery	
			500.4	N=50/0"	
80.0			495.4	N=50/0"	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

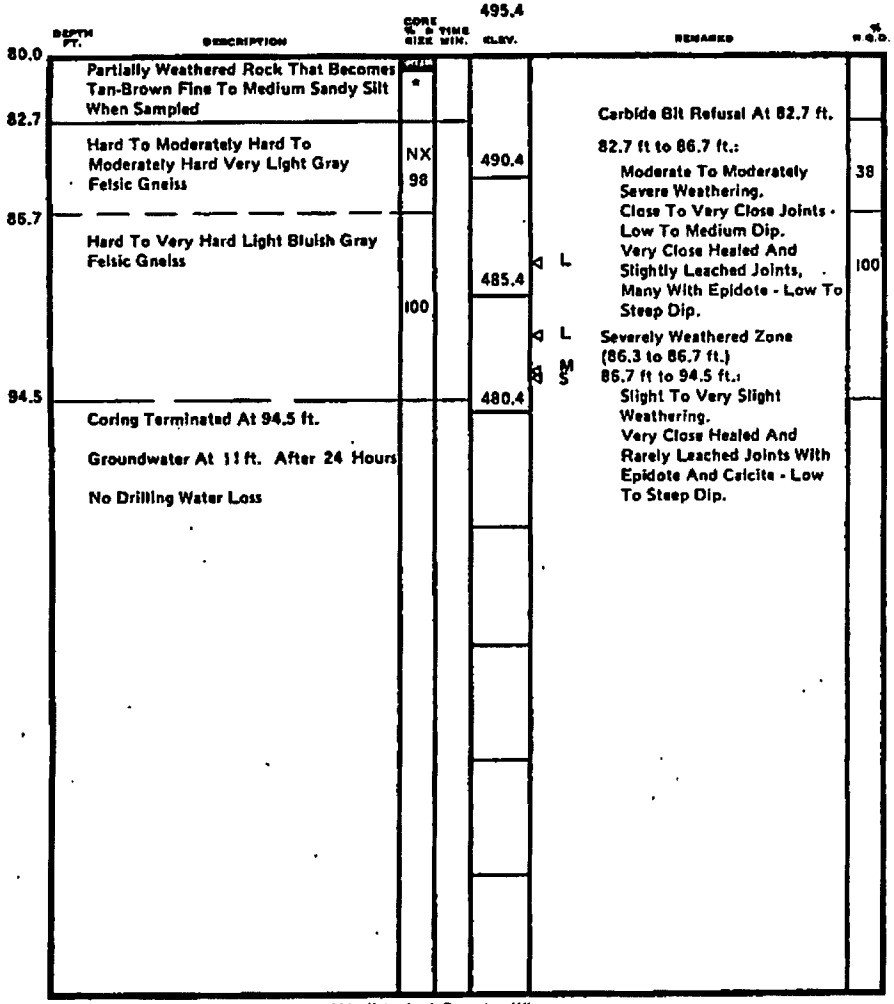
ROCK JOINT:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

*Undisturbed Samples Were Obtained From An Adjacent Boring.

TEST BORING RECORD

BORING NO. B-39P
DATE DRILLED 10-25-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



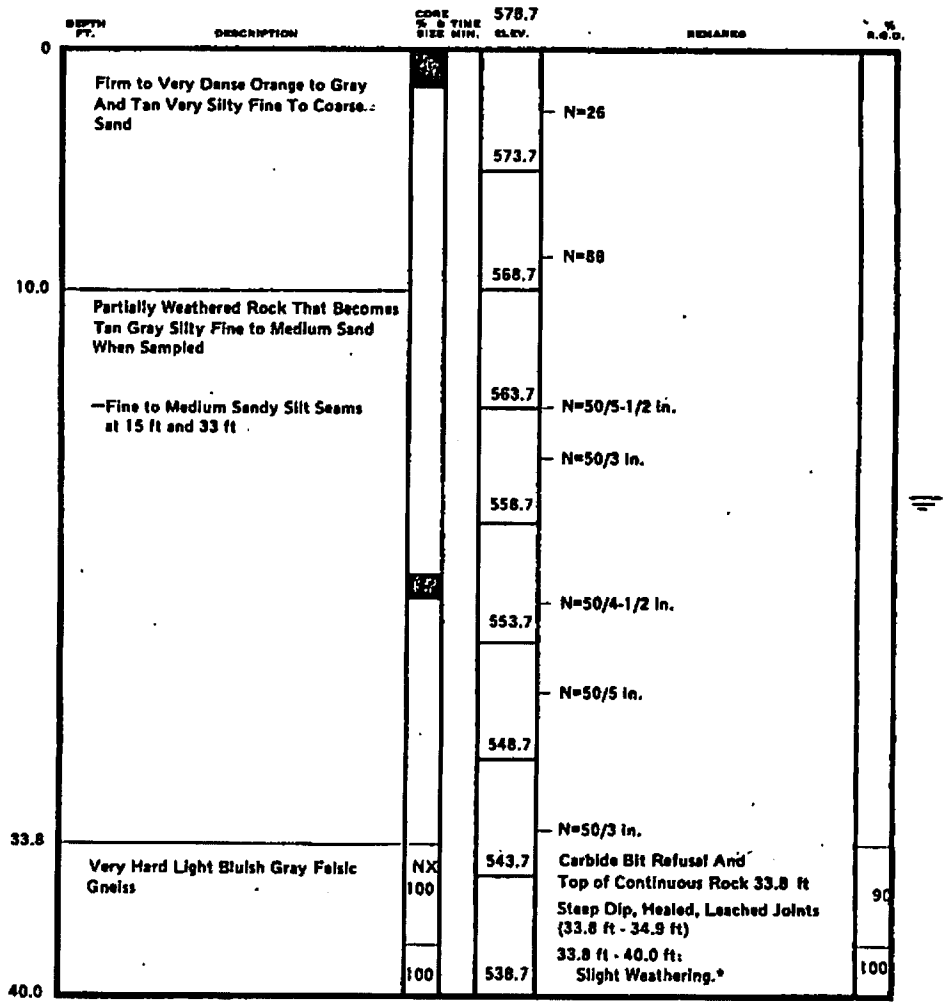
*Undisturbed Samples Where Obtained From An Adjacent Boring.

Page 3 of 3

TEST BORING RECORD

BORING NO. B-39P
DATE DRILLED 10-25-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



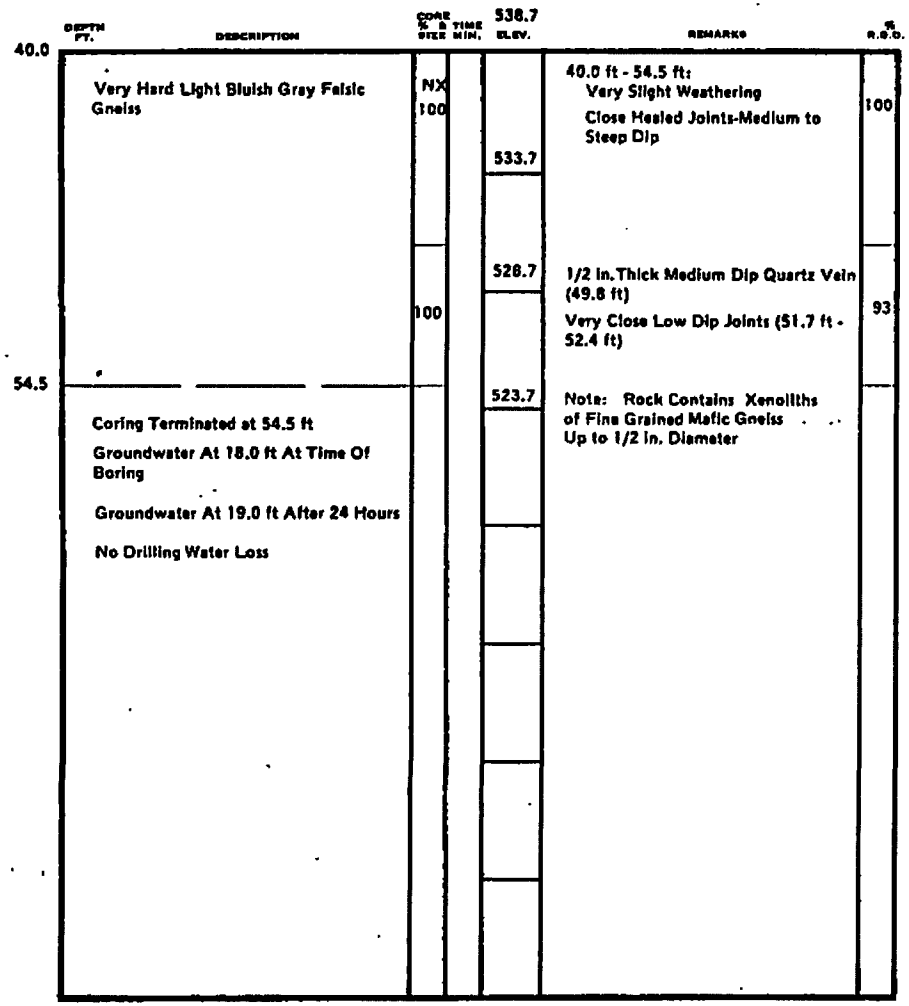
* Close Healed Joints-Low to Steep Dip. Close Joints-Medium Dip.

TEST BORING RECORD

Page 1 of 2

BORING NO. B-40
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

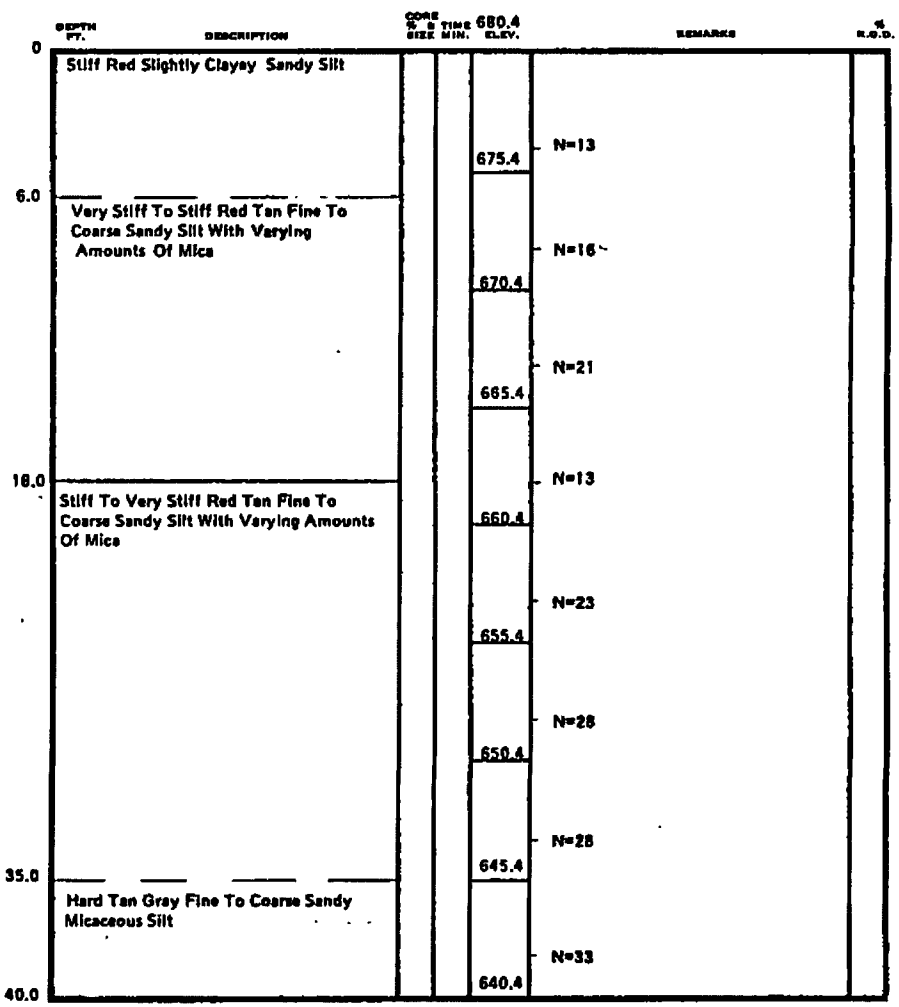
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-40
DATE DRILLED 7-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

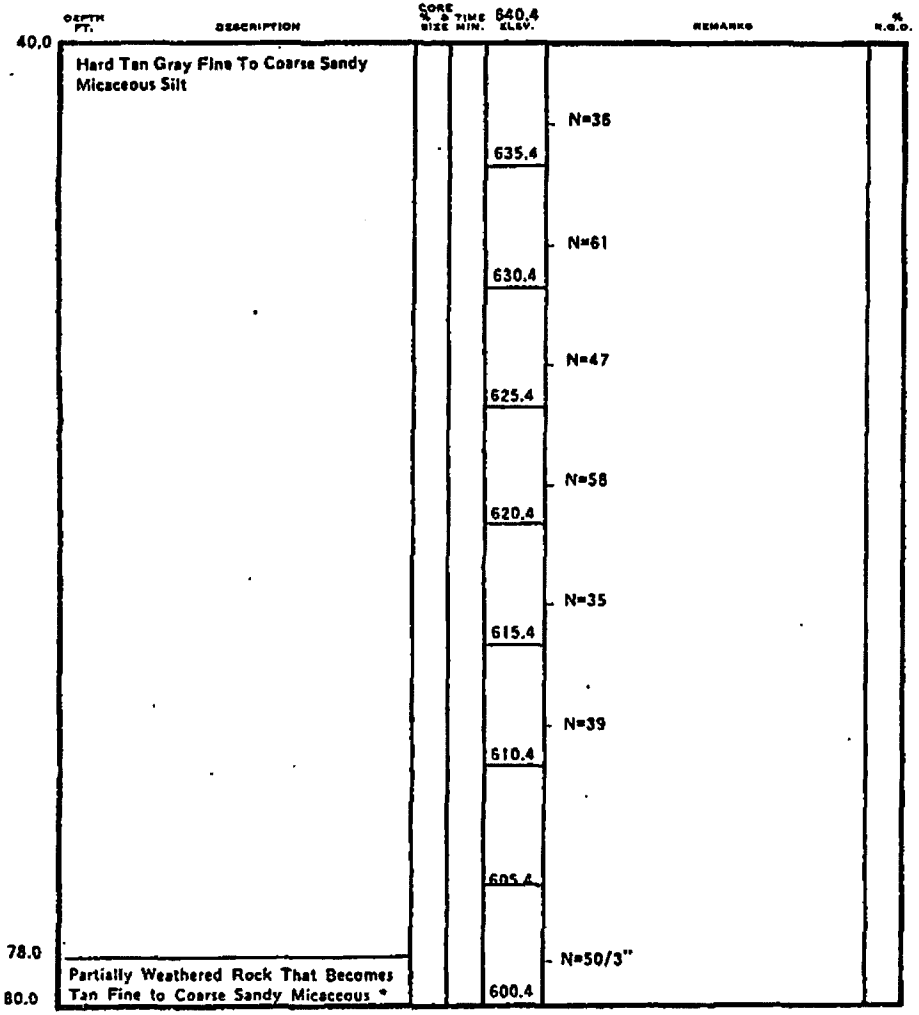
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-41
DATE DRILLED 7-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



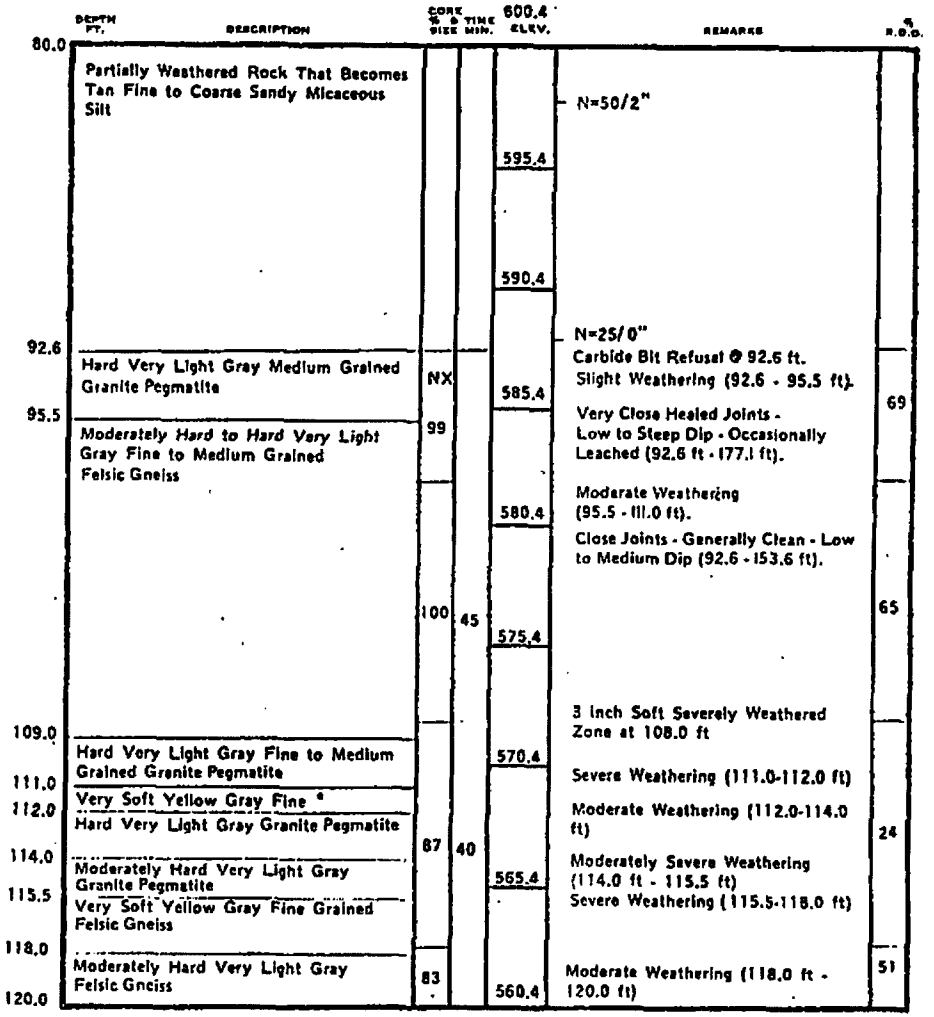
BORING AND SAMPLING MEETS ASTM D-1586 * Silt
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0-30° M = MED. DIP 30°-60° S = STEEP DIP 60°-90°

Page 2 of 5

TEST BORING RECORD

BORING NO. B-41
DATE DRILLED 7-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



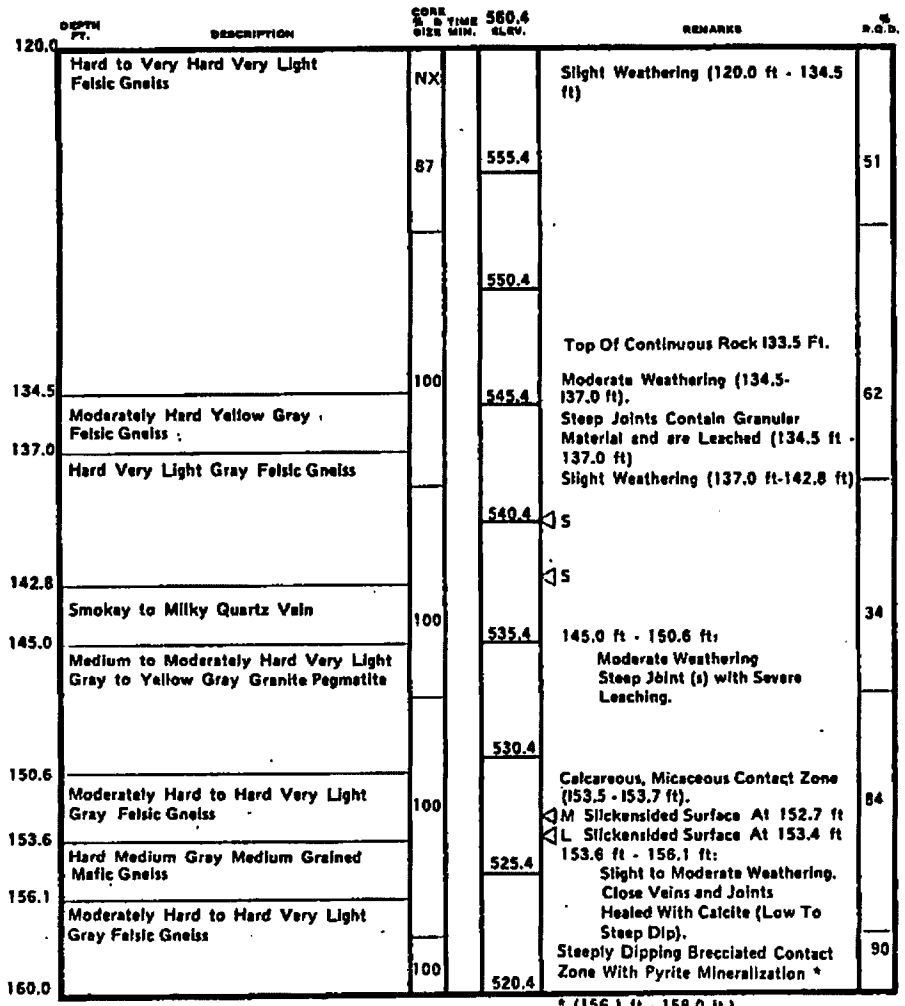
BORING AND SAMPLING MEETS ASTM D-1586 * Grained Felsic Gneiss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0-30° M = MED. DIP 30°-60° S = STEEP DIP 60°-90°

Page 3 of 5

TEST BORING RECORD

BORING NO. B-41
DATE DRILLED 7-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

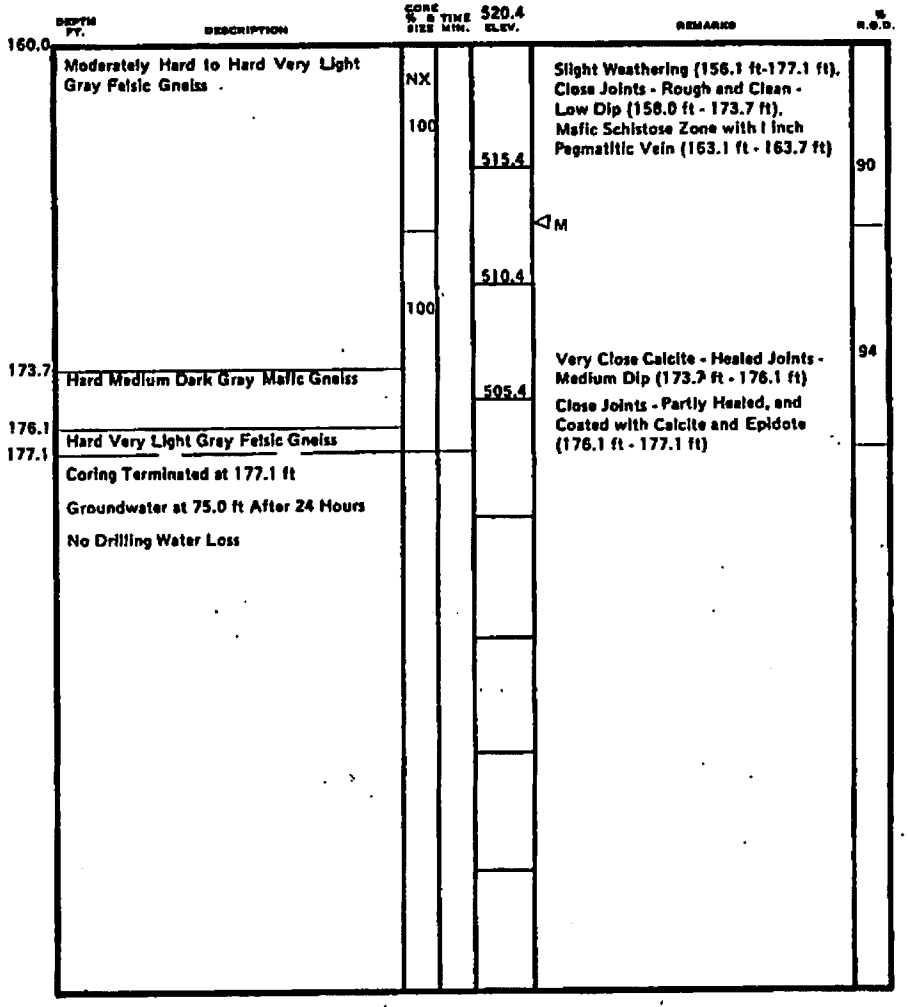
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 4 of 5

TEST BORING RECORD

BORING NO. B-41
DATE DRILLED 7-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

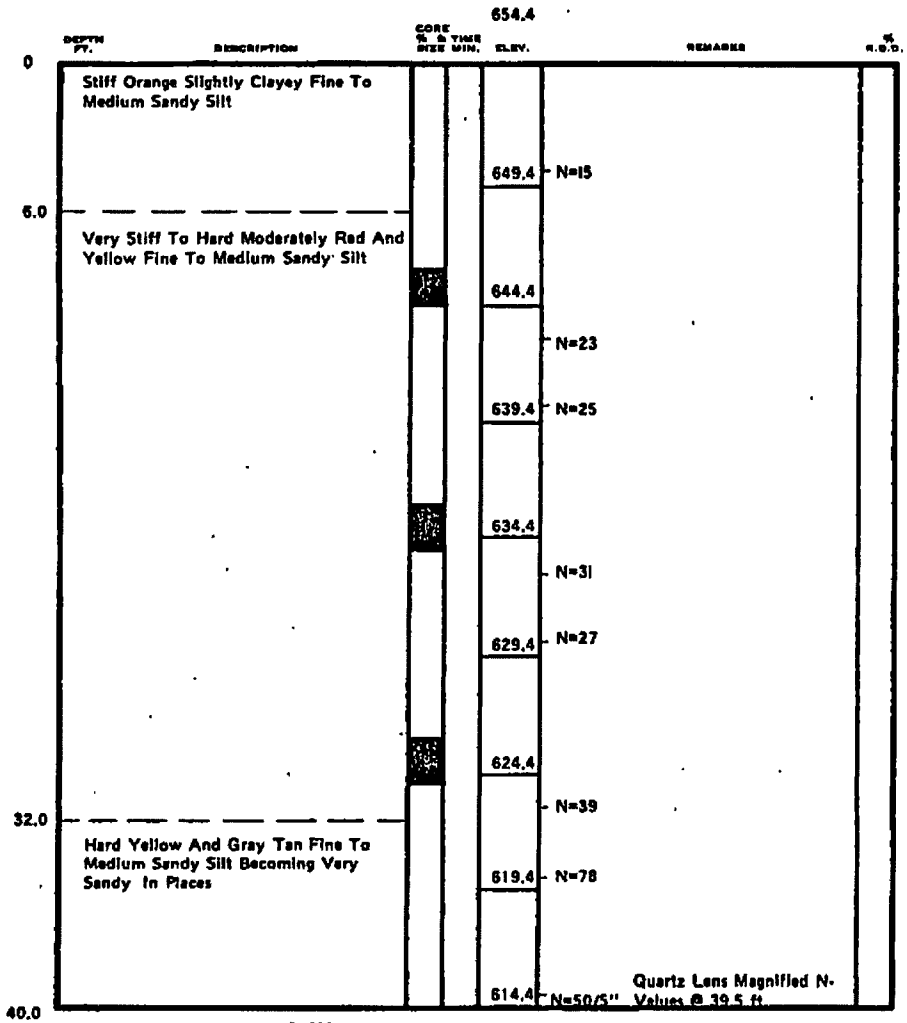
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-41
DATE DRILLED 7-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

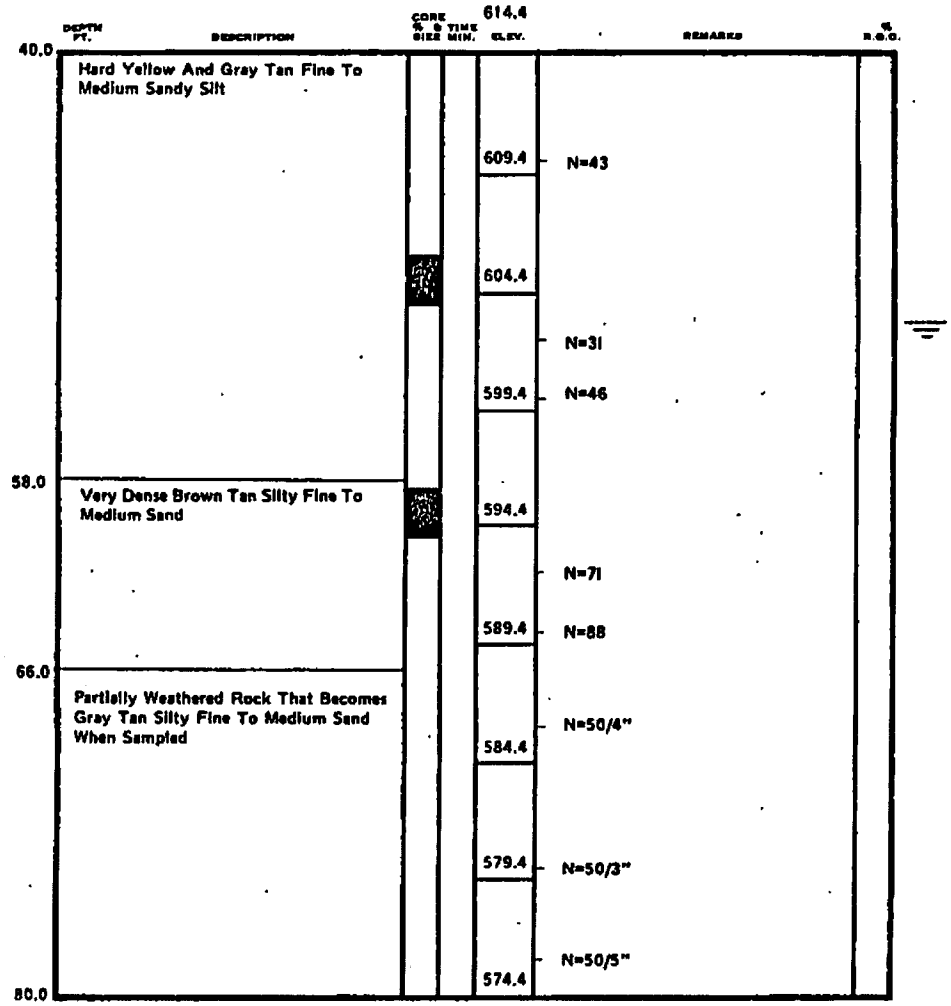
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-42
DATE DRILLED 6-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

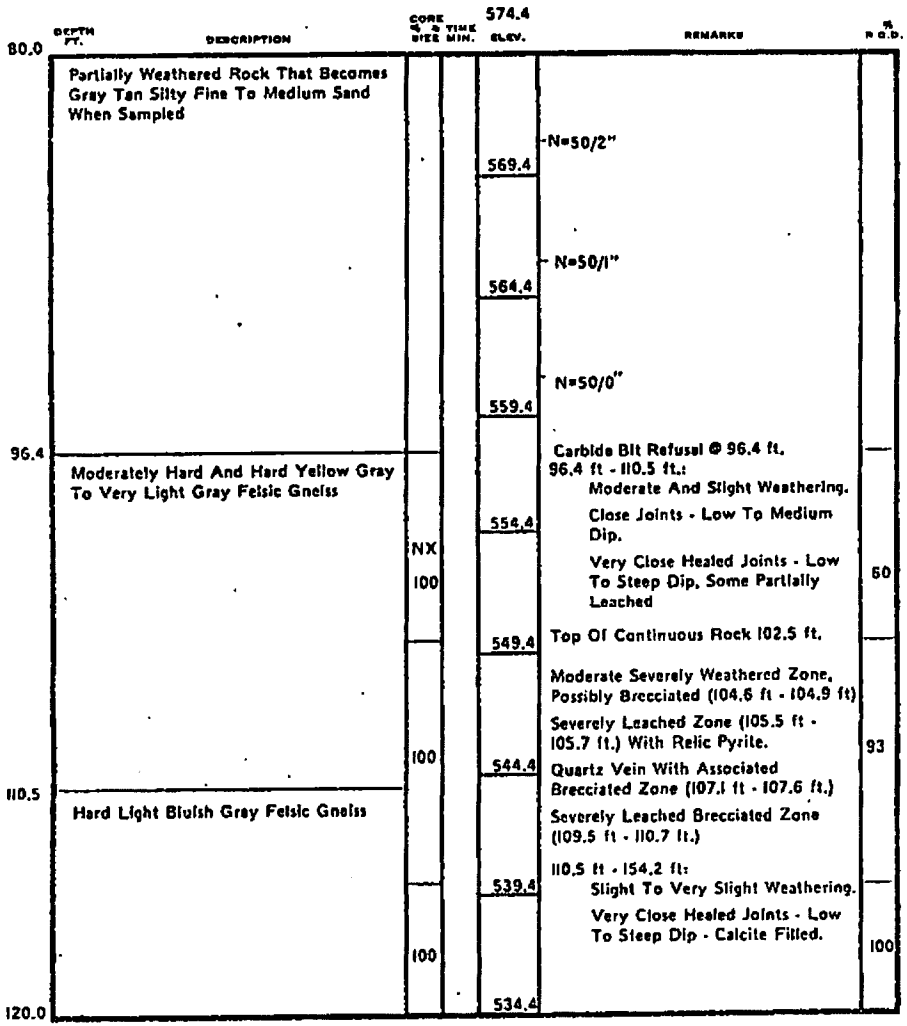
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-42
DATE DRILLED 6-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

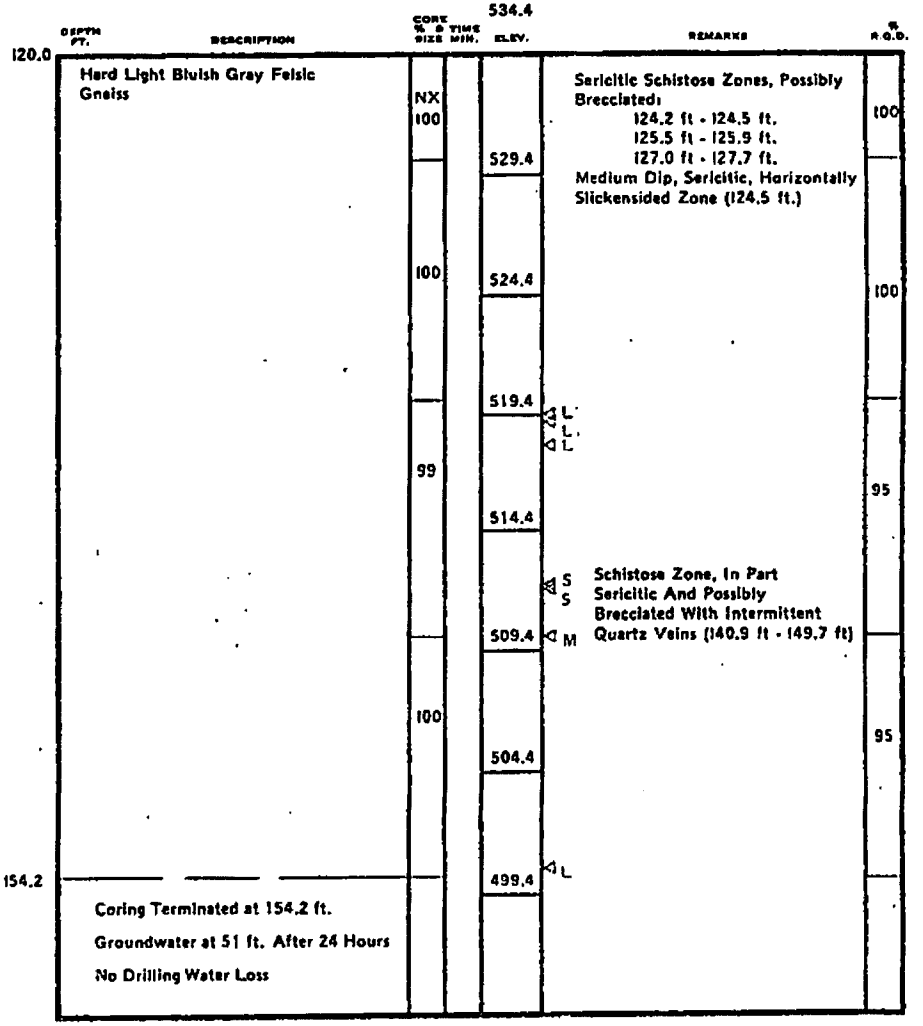
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-42
DATE DRILLED 8-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

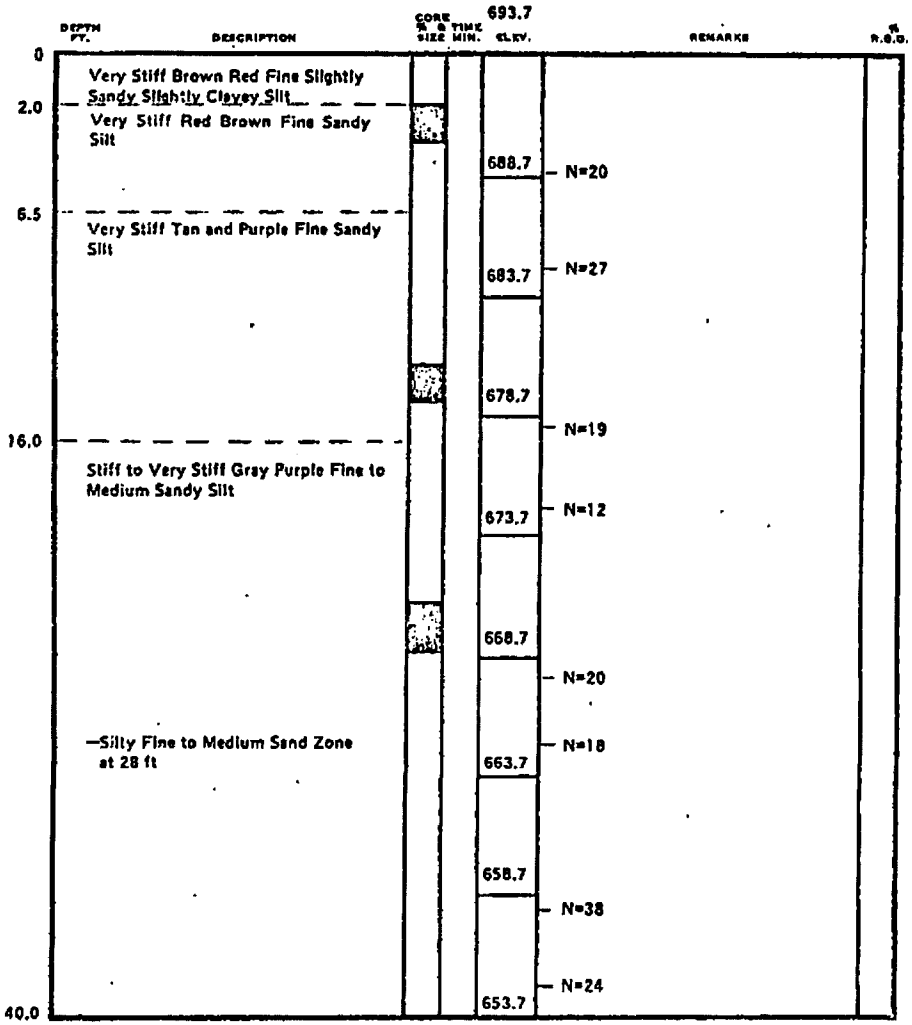
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-42
DATE DRILLED 8-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

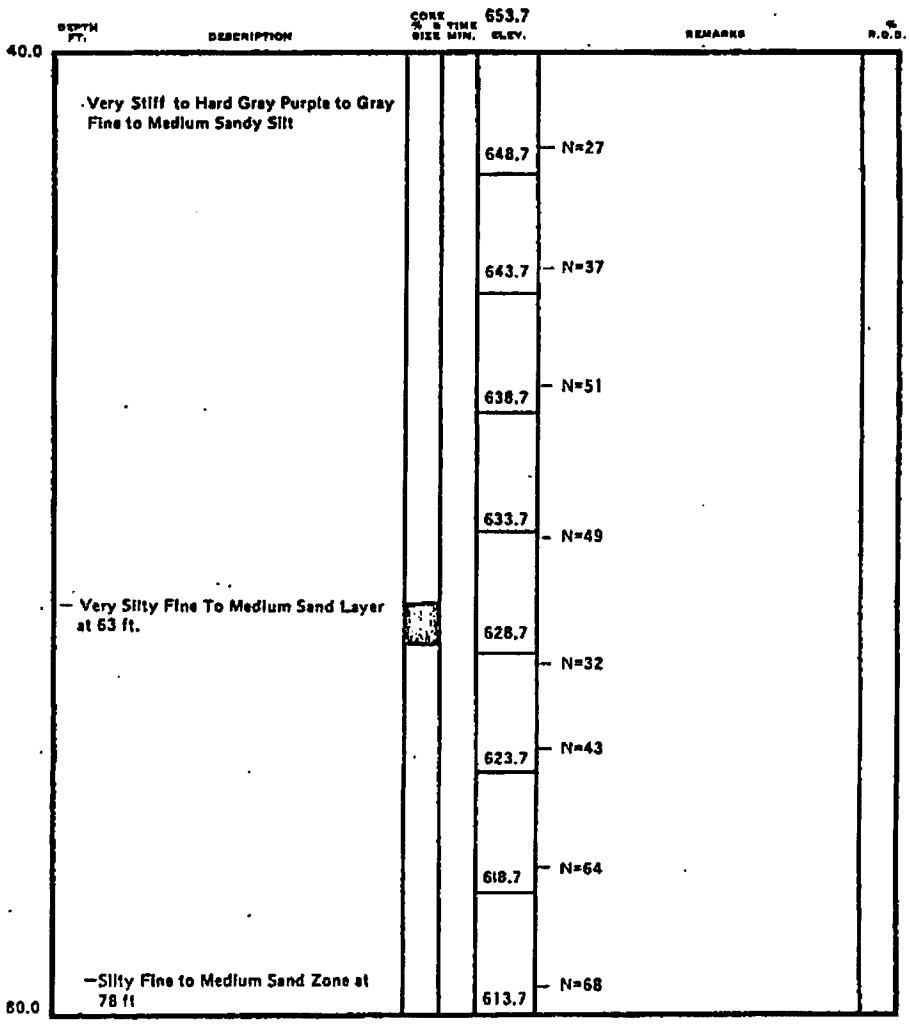
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-44
DATE DRILLED 7-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

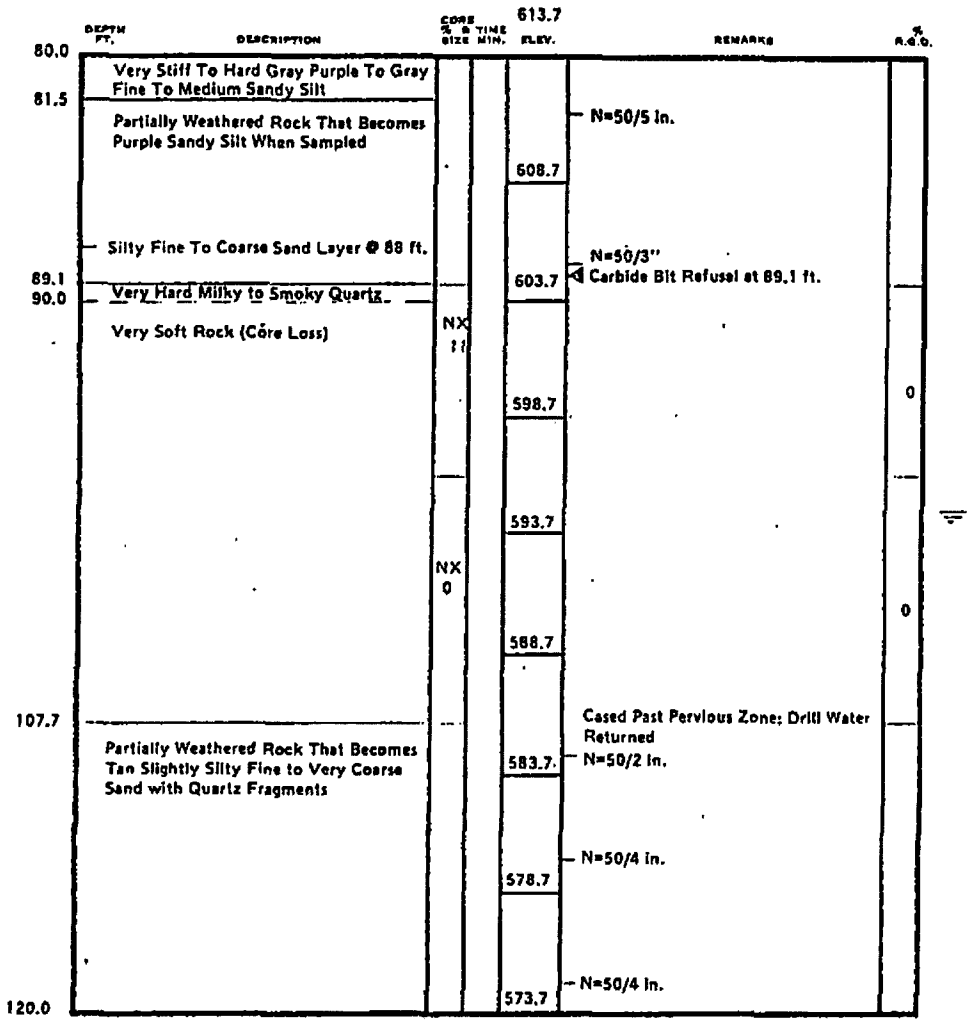
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-44
DATE DRILLED 7-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

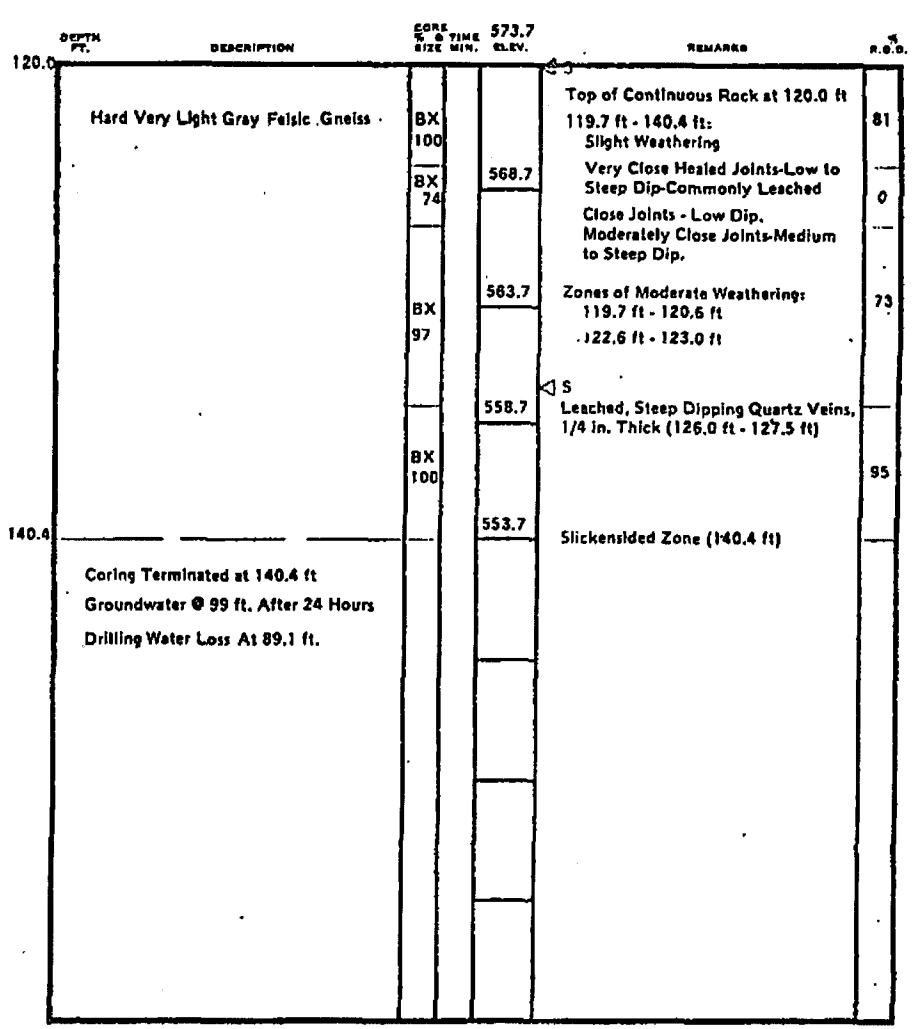
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-44
DATE DRILLED 7-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

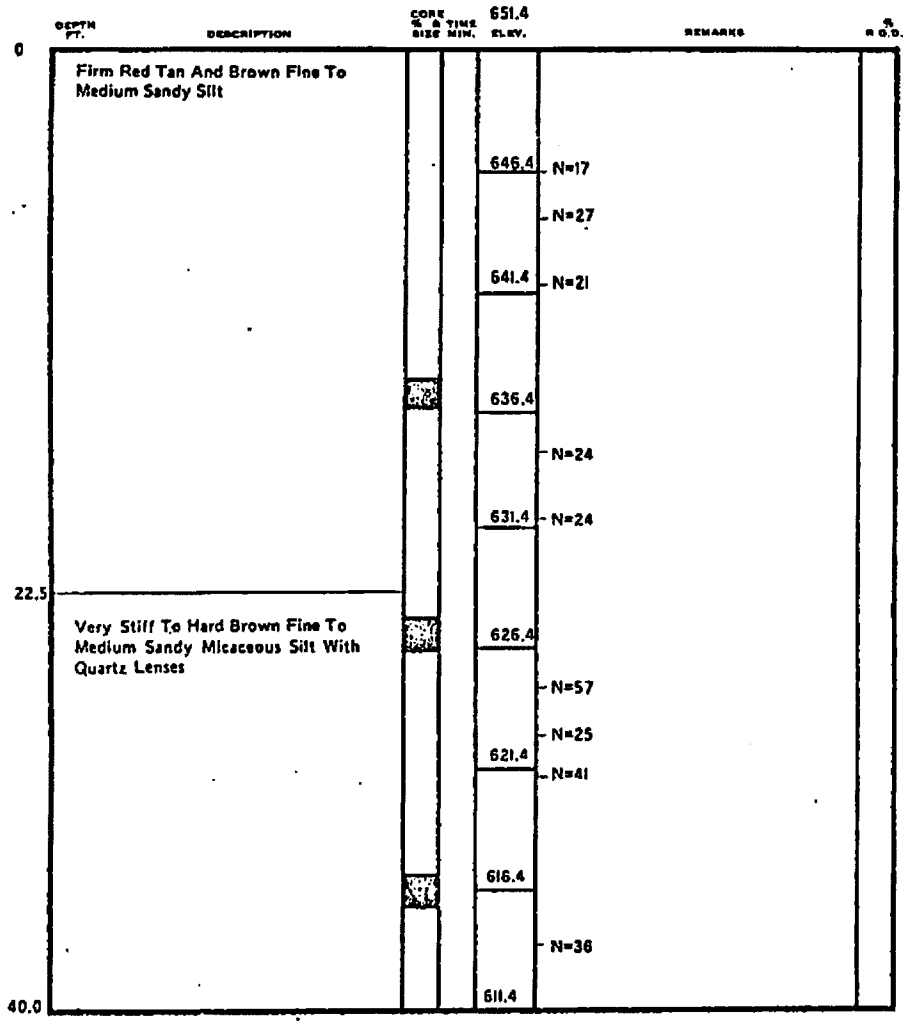
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-44
DATE DRILLED 7-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

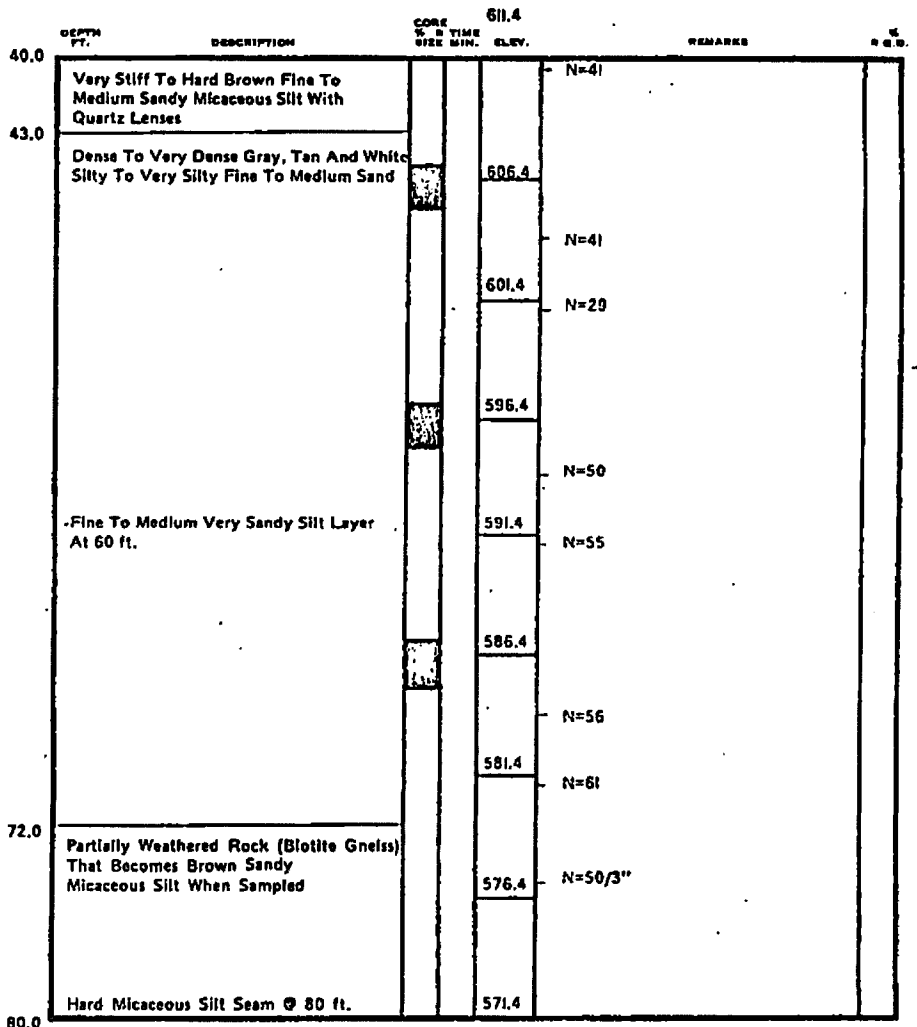
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-45
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

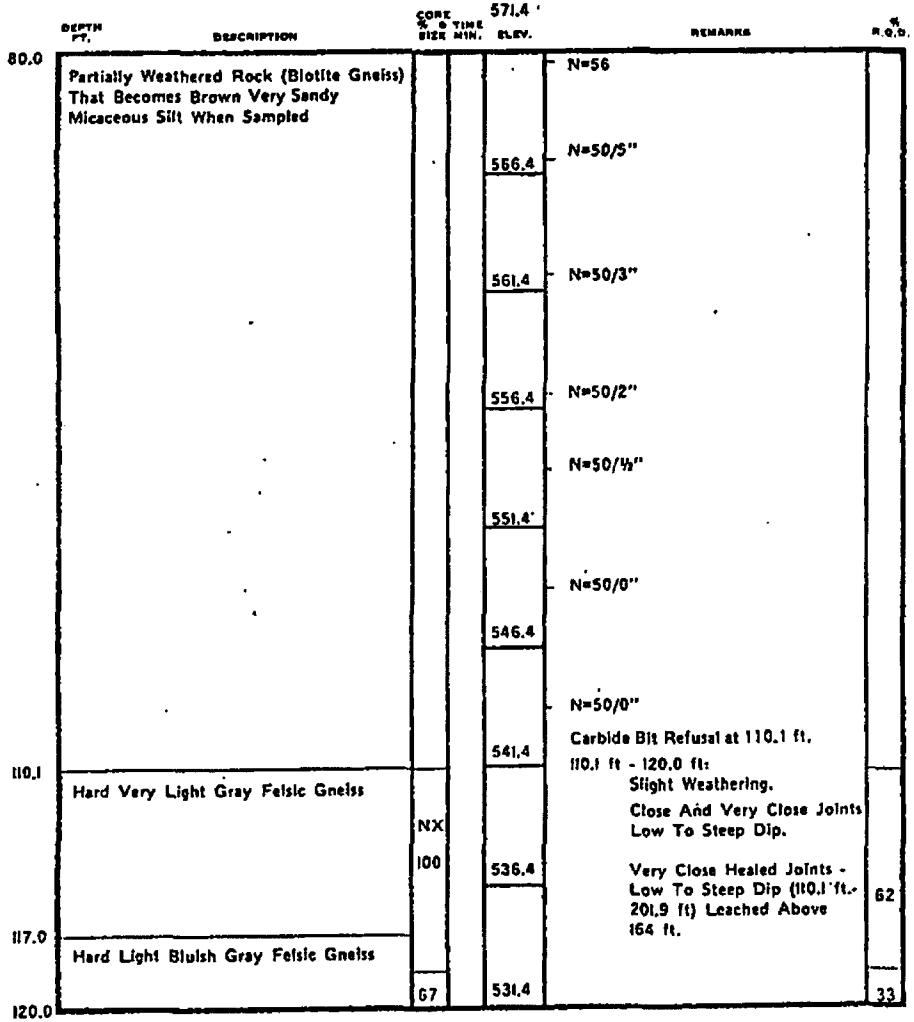
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-45
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

% ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

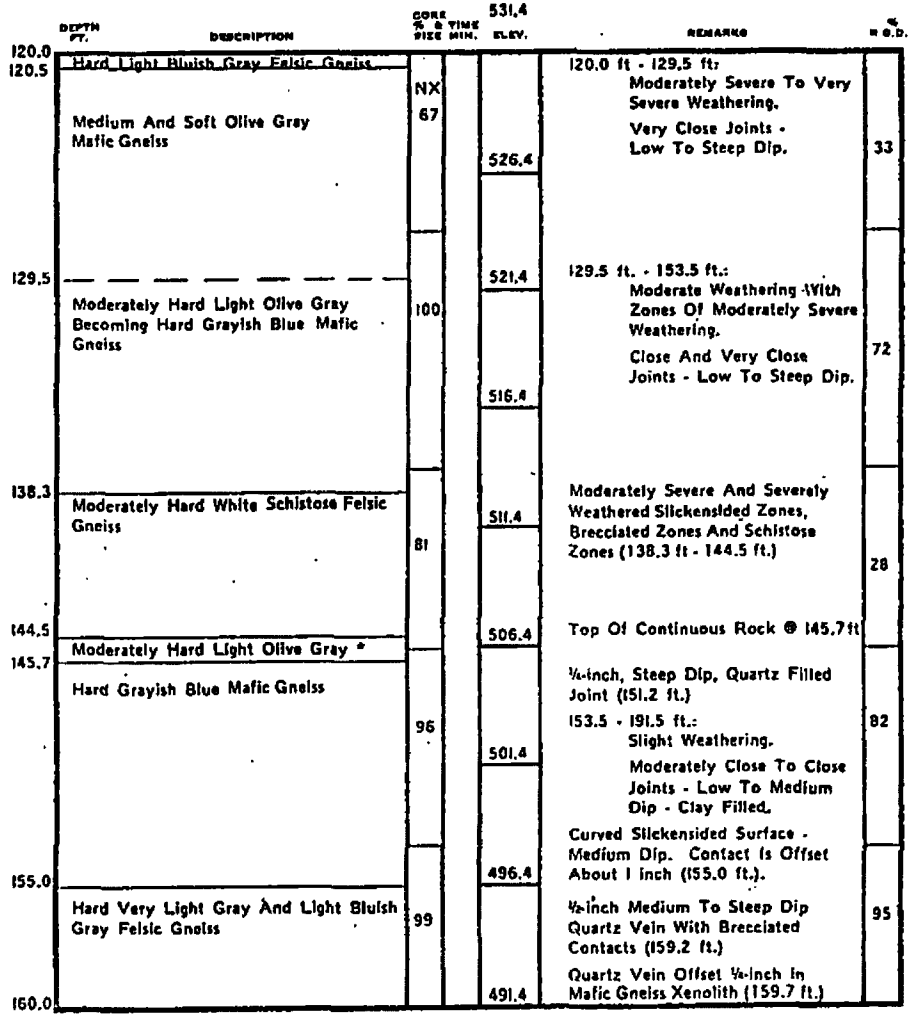
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

* Mafic Gneiss

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

% ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

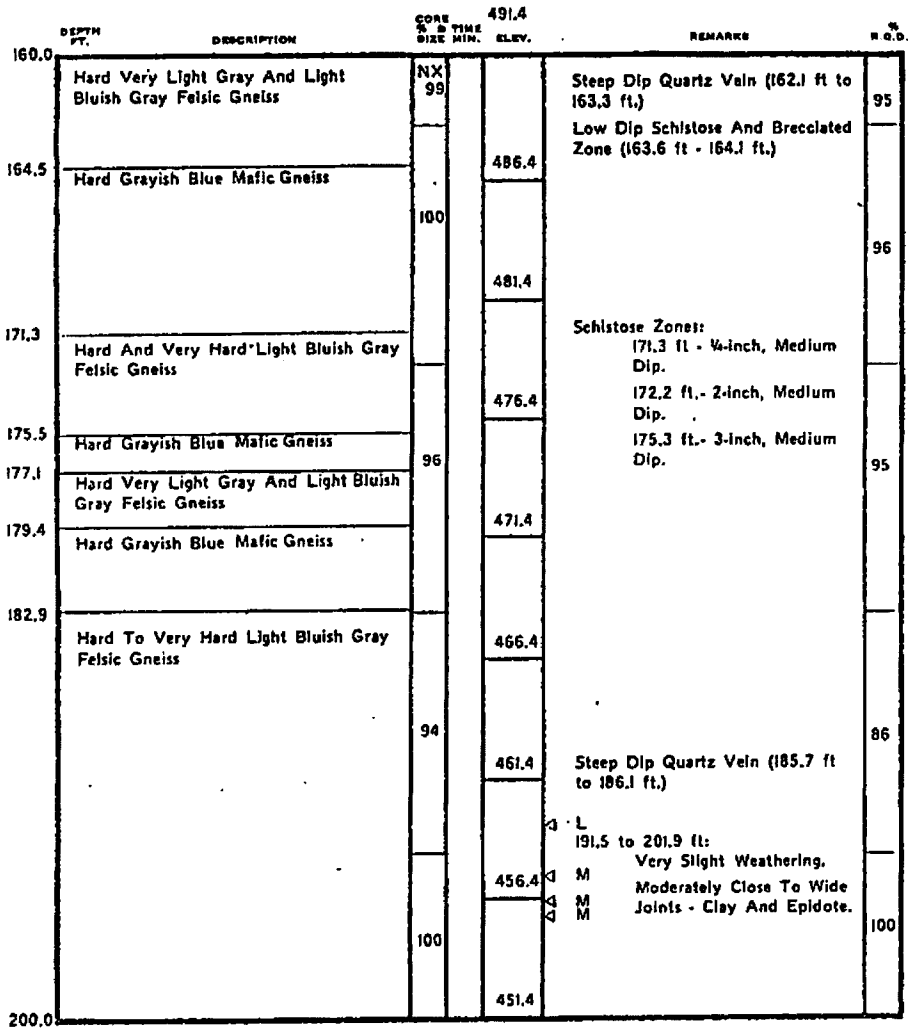
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

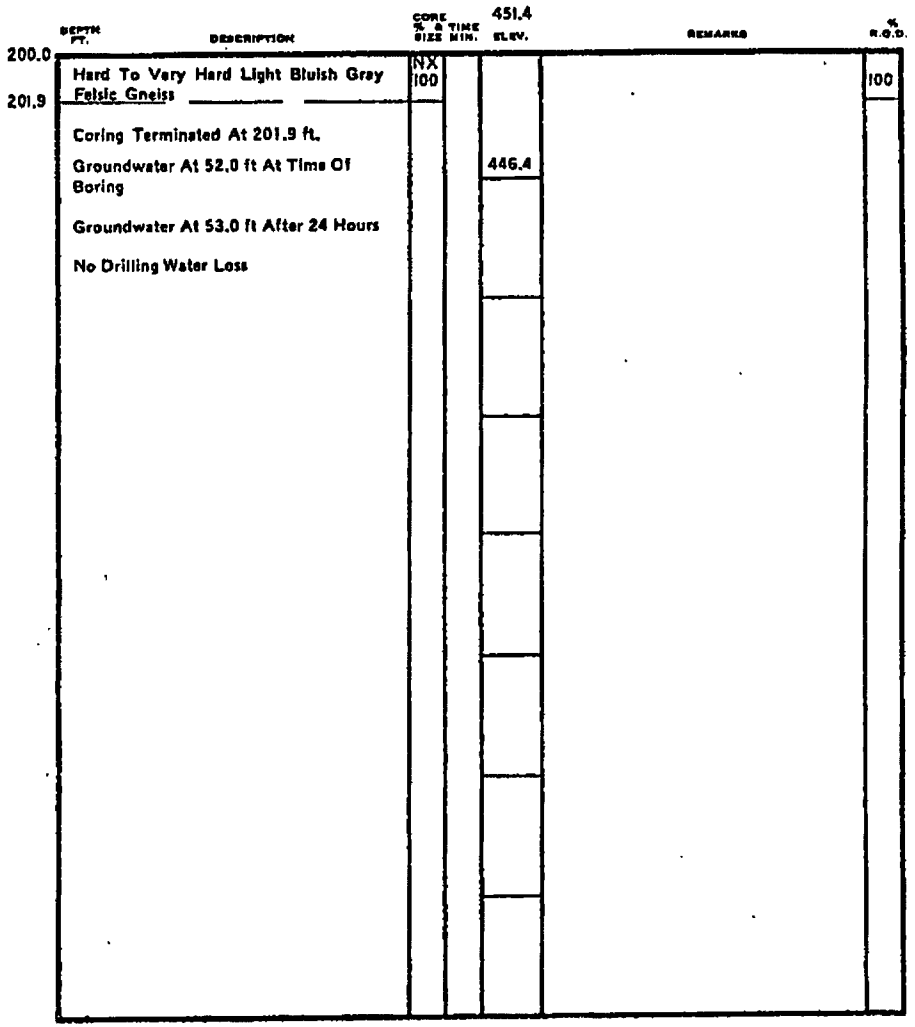
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-45
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

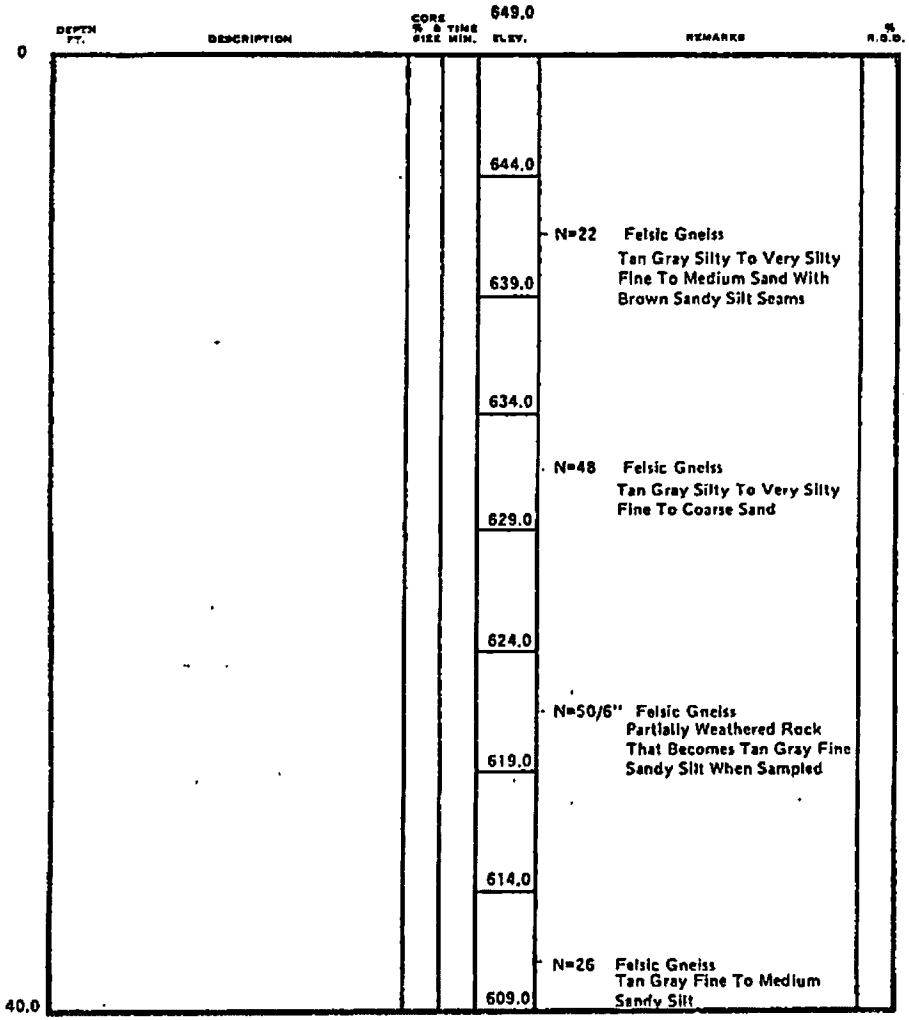
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-45
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

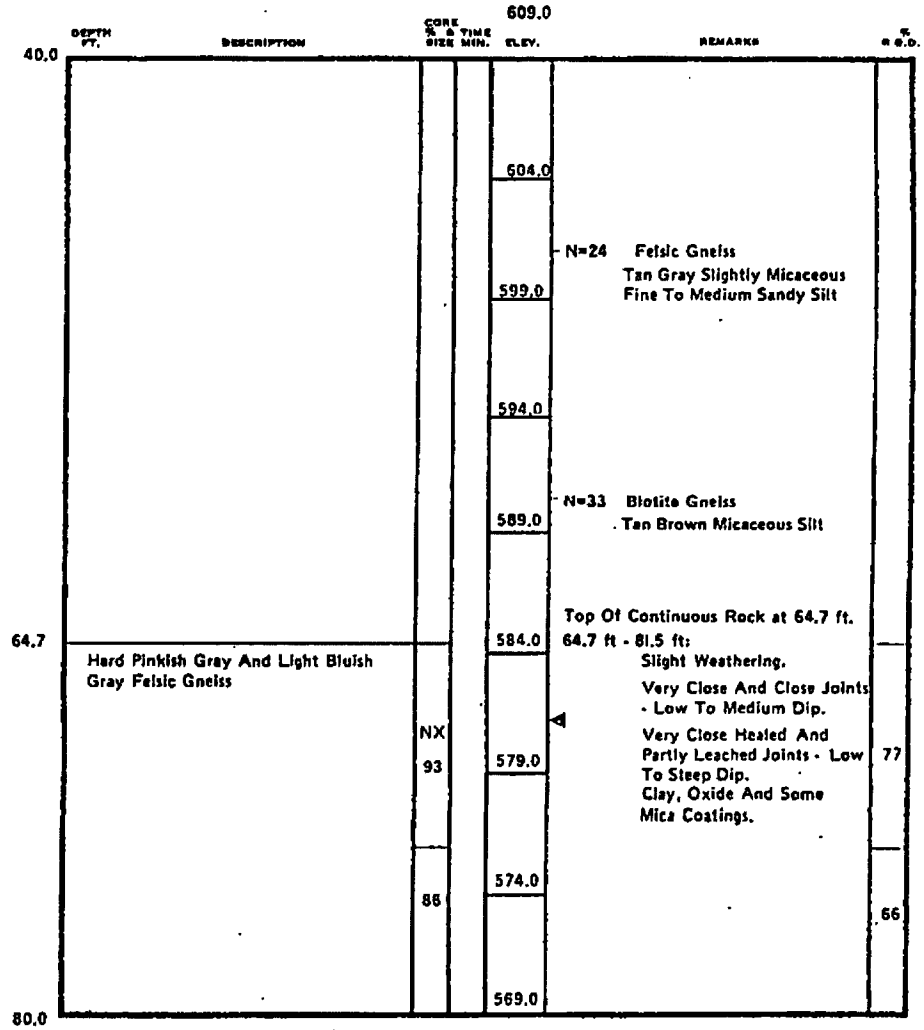
ROCK JOINTS
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-45 AP
DATE DRILLED 9-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

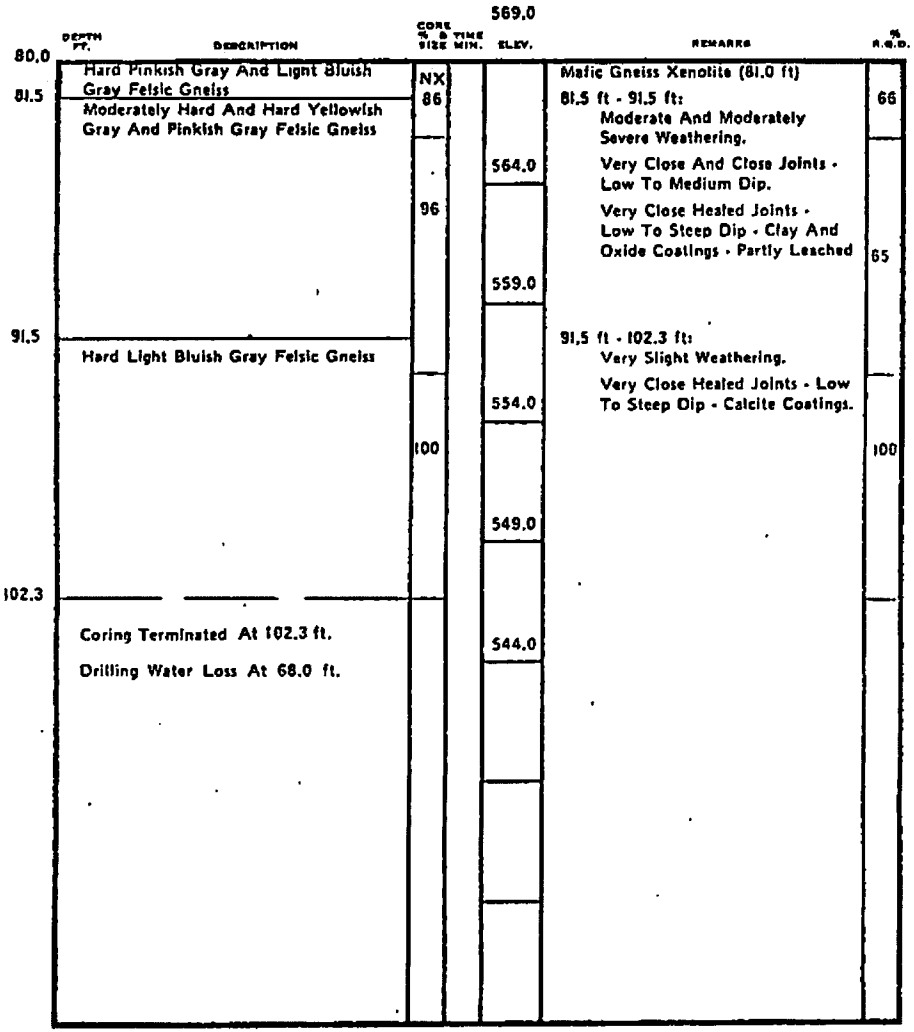
ROCK JOINTS
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-45AP
DATE DRILLED 9-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

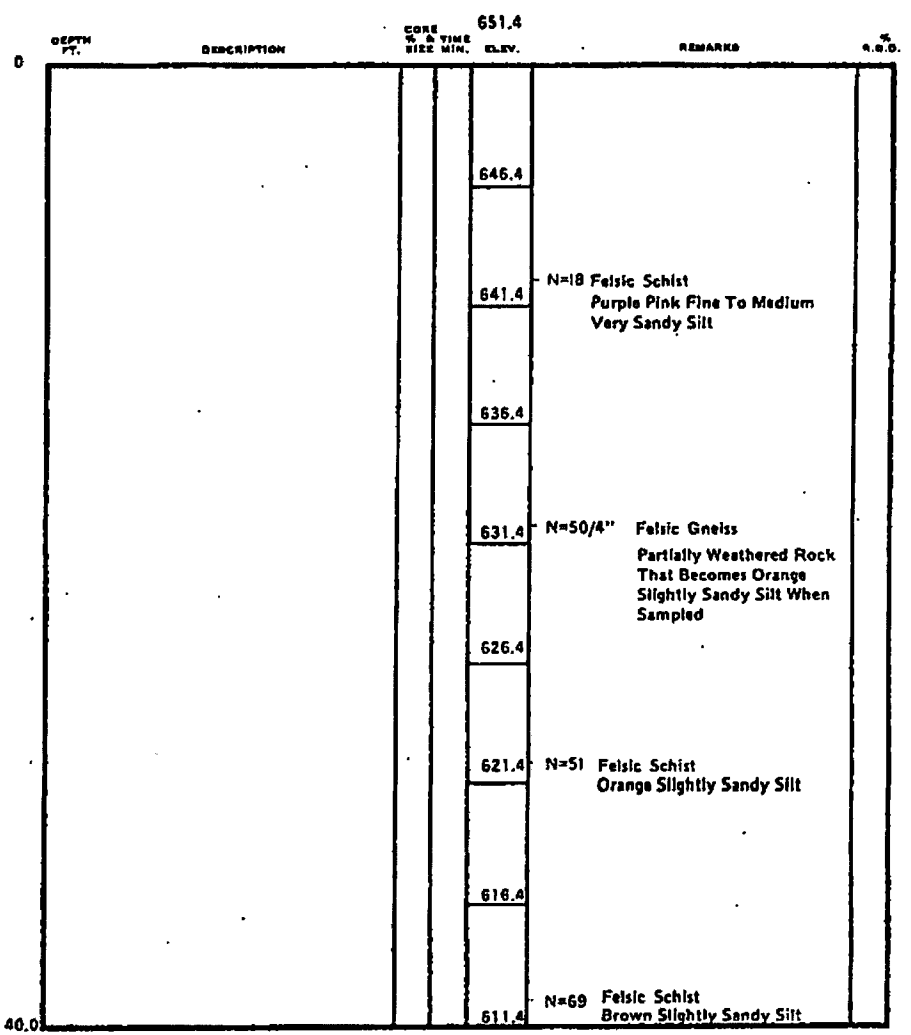
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-45AP
DATE DRILLED 9-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

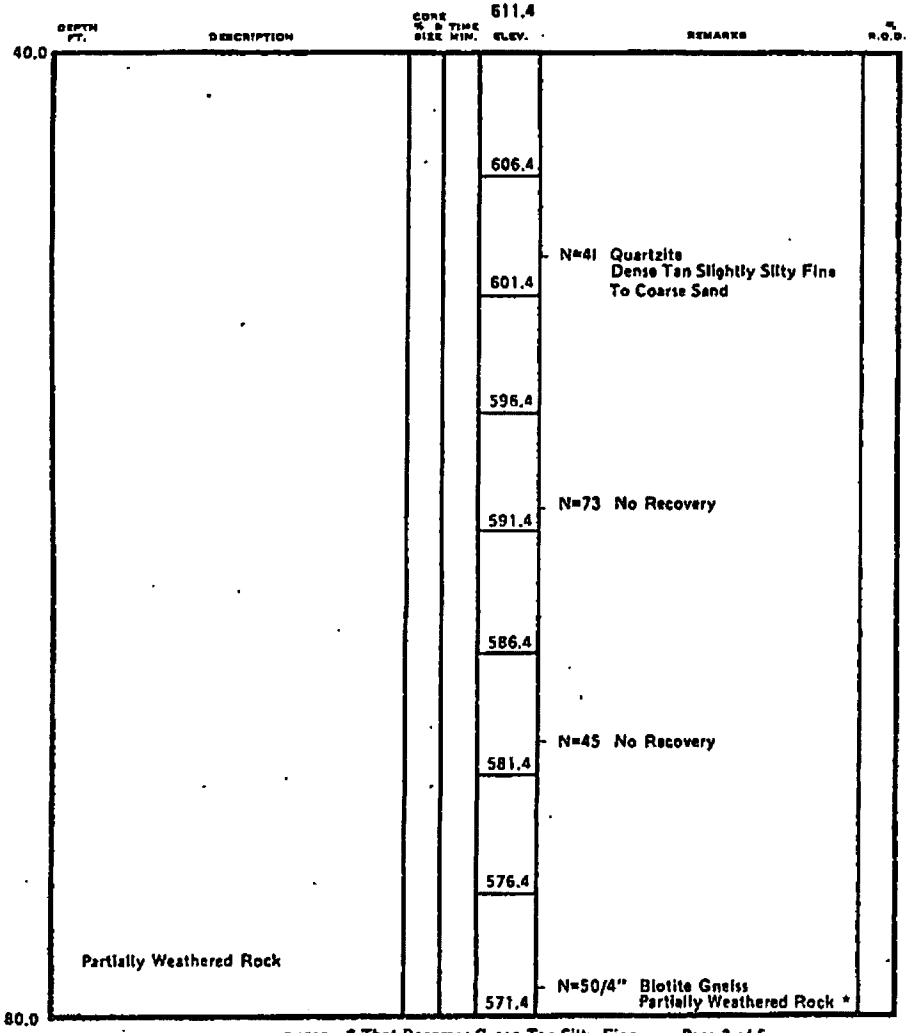
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-45 BP
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

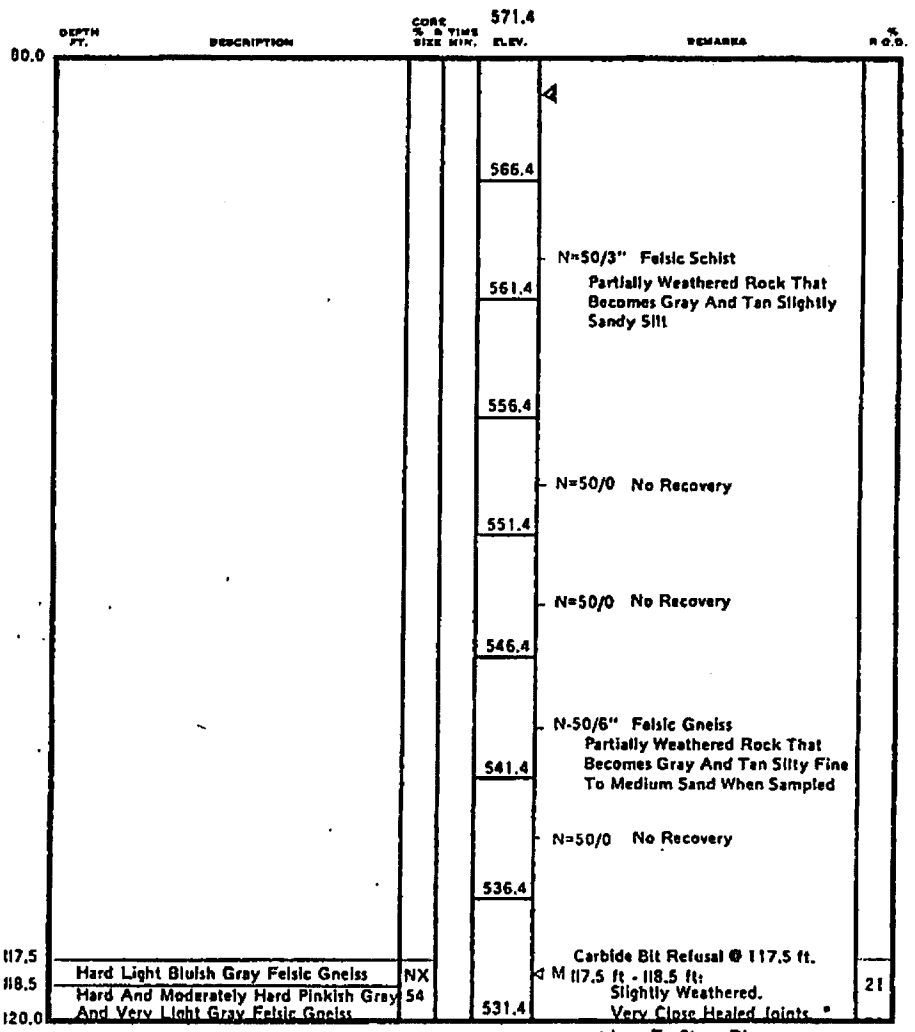
ROCK JOINTS:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

* That Becomes Green Tan Silty Fine To Medium Sand When Sampled

TEST BORING RECORD

BORING NO. B-45 BP
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION.

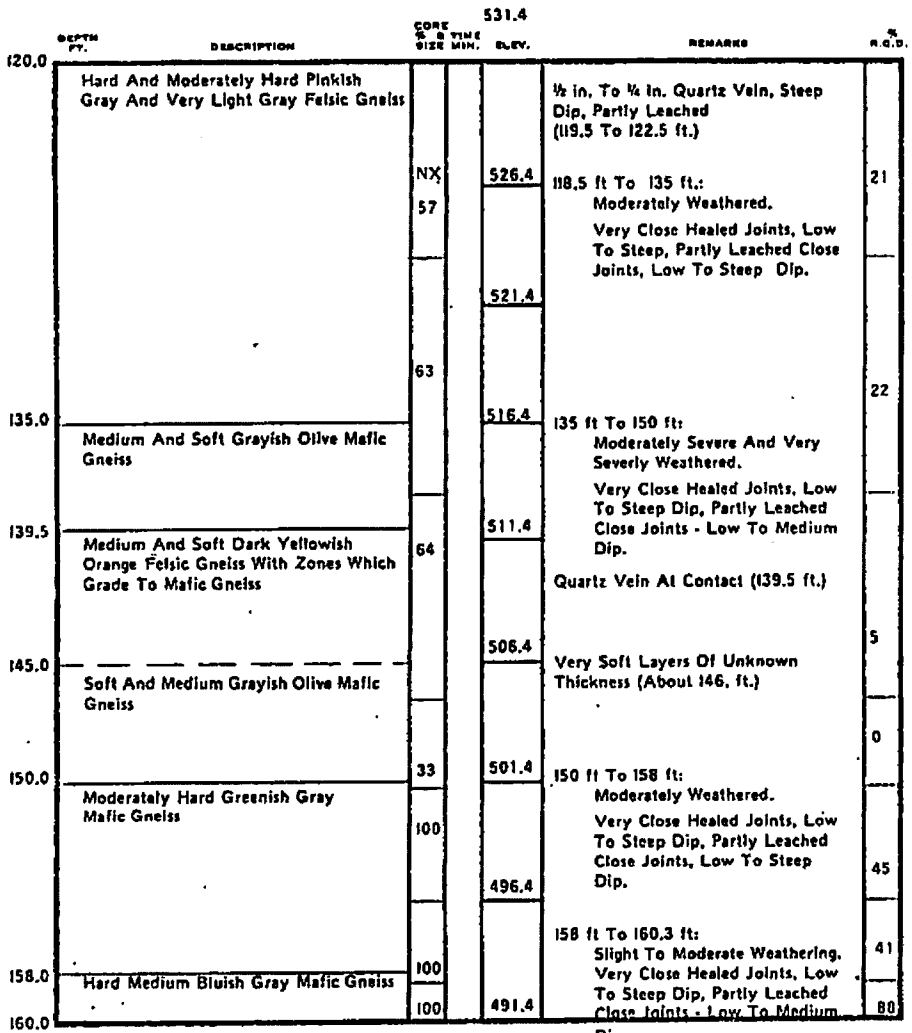
ROCK JOINTS:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

* Low To Steep Dip

TEST BORING RECORD

BORING NO. B-45BP
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

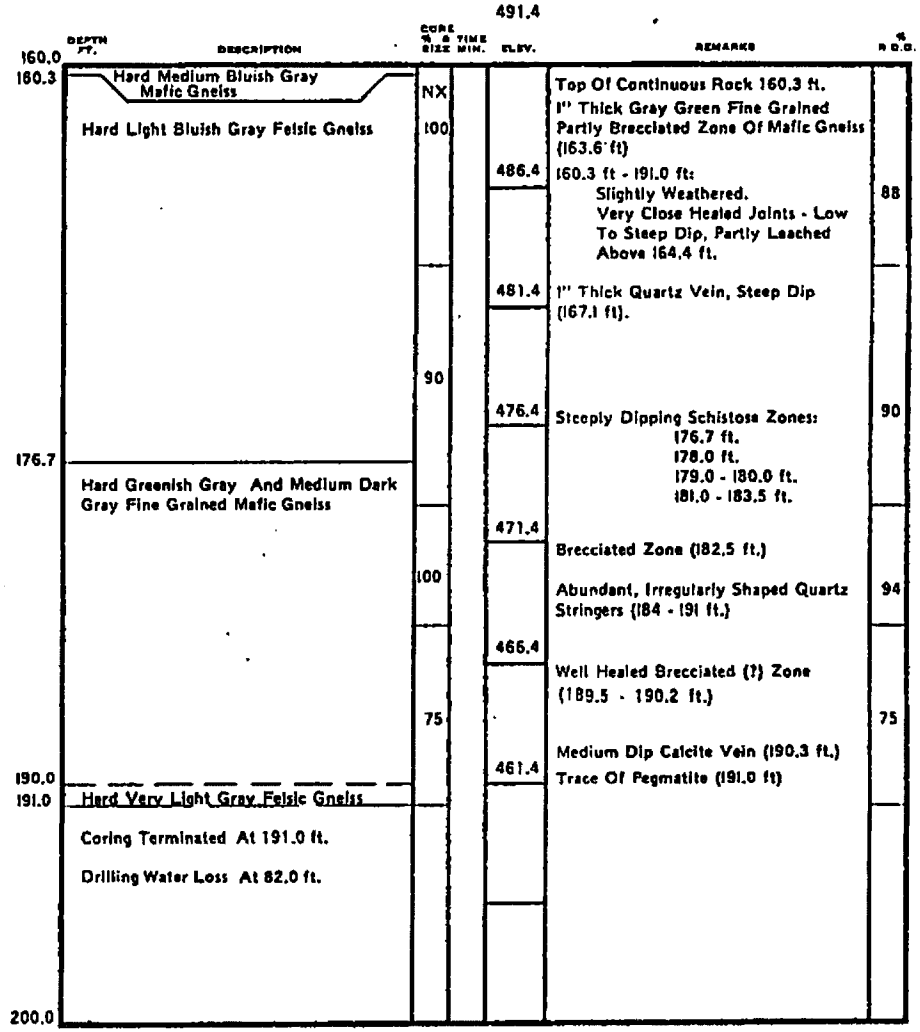
ROCK JOINTS
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 5

TEST BORING RECORD

BORING NO. B-45BP
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

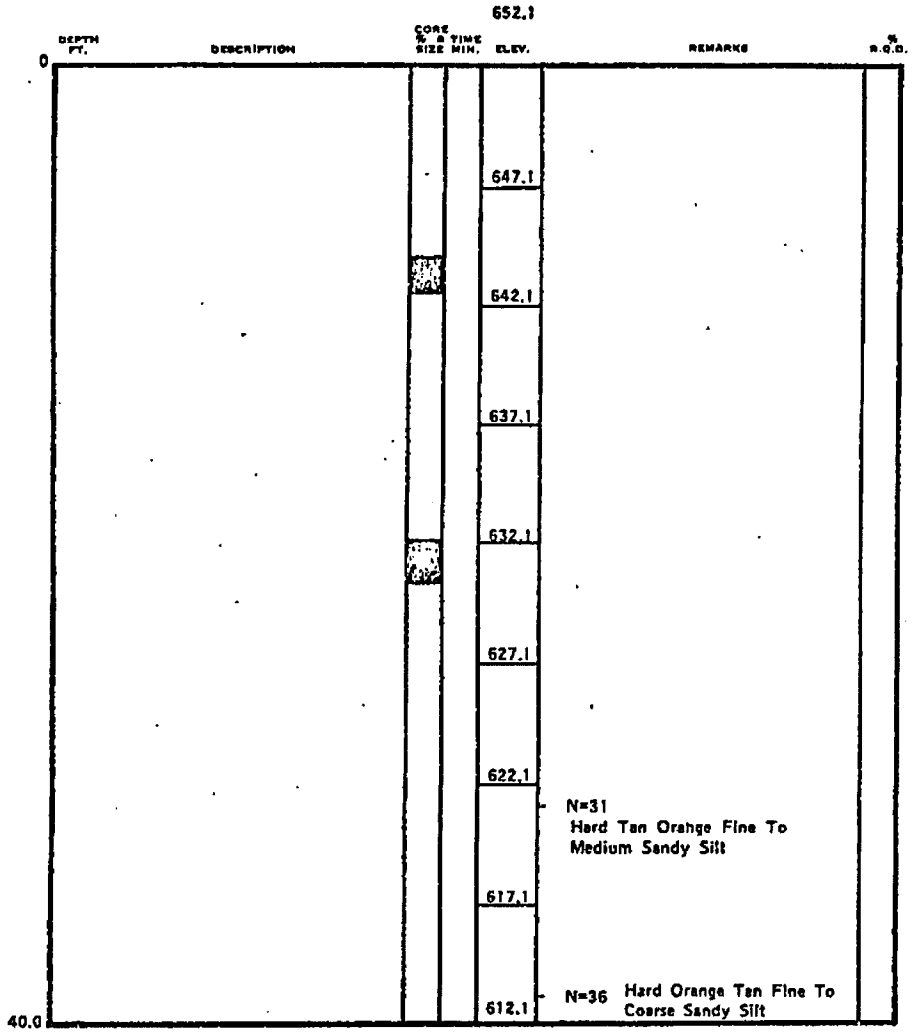
ROCK JOINTS
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-45BP
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

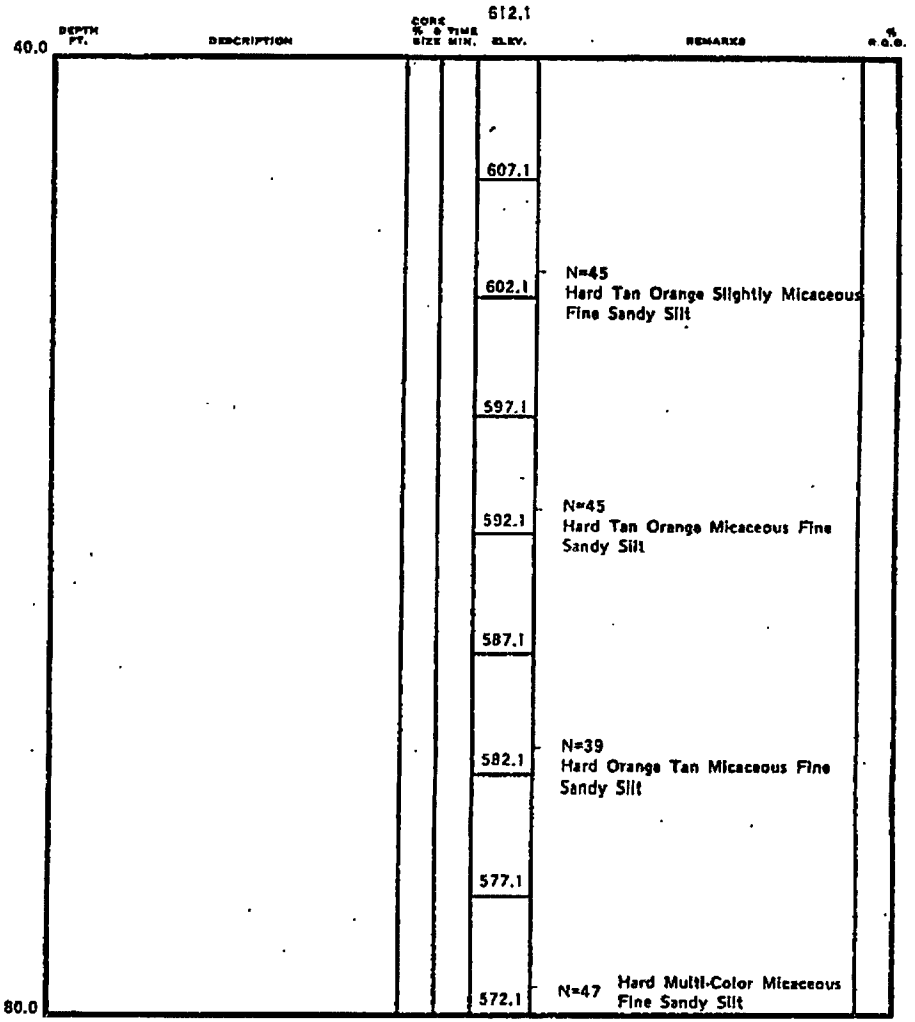
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 6

TEST BORING RECORD

BORING NO. B-45CP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

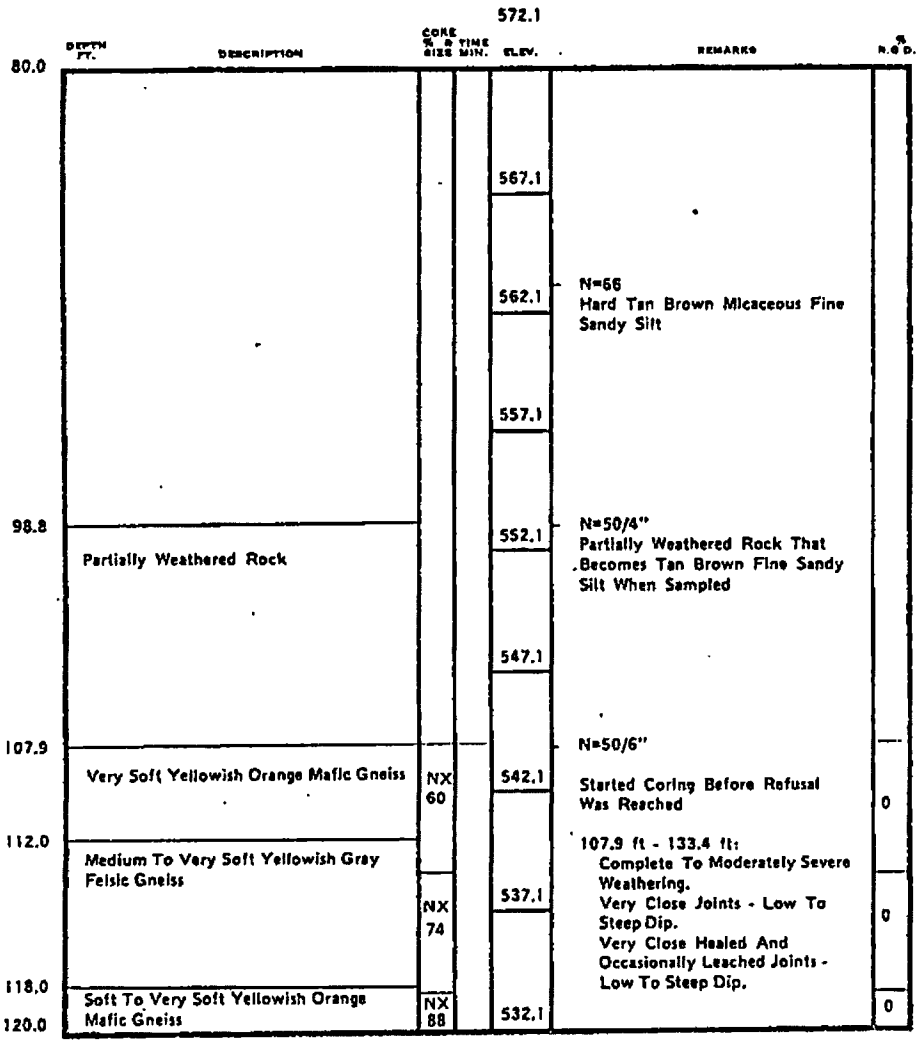
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 6

TEST BORING RECORD

BORING NO. B-45CP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

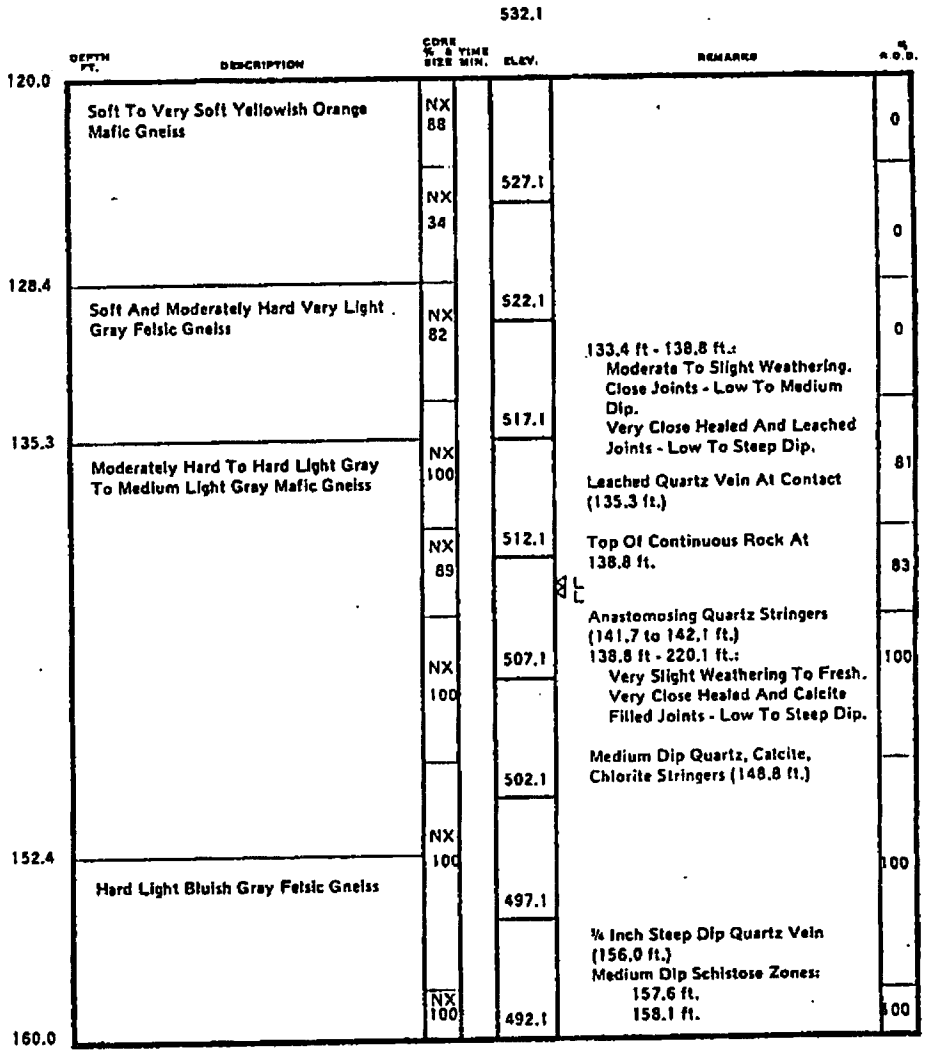
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 6

TEST BORING RECORD

BORING NO. B-45CP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

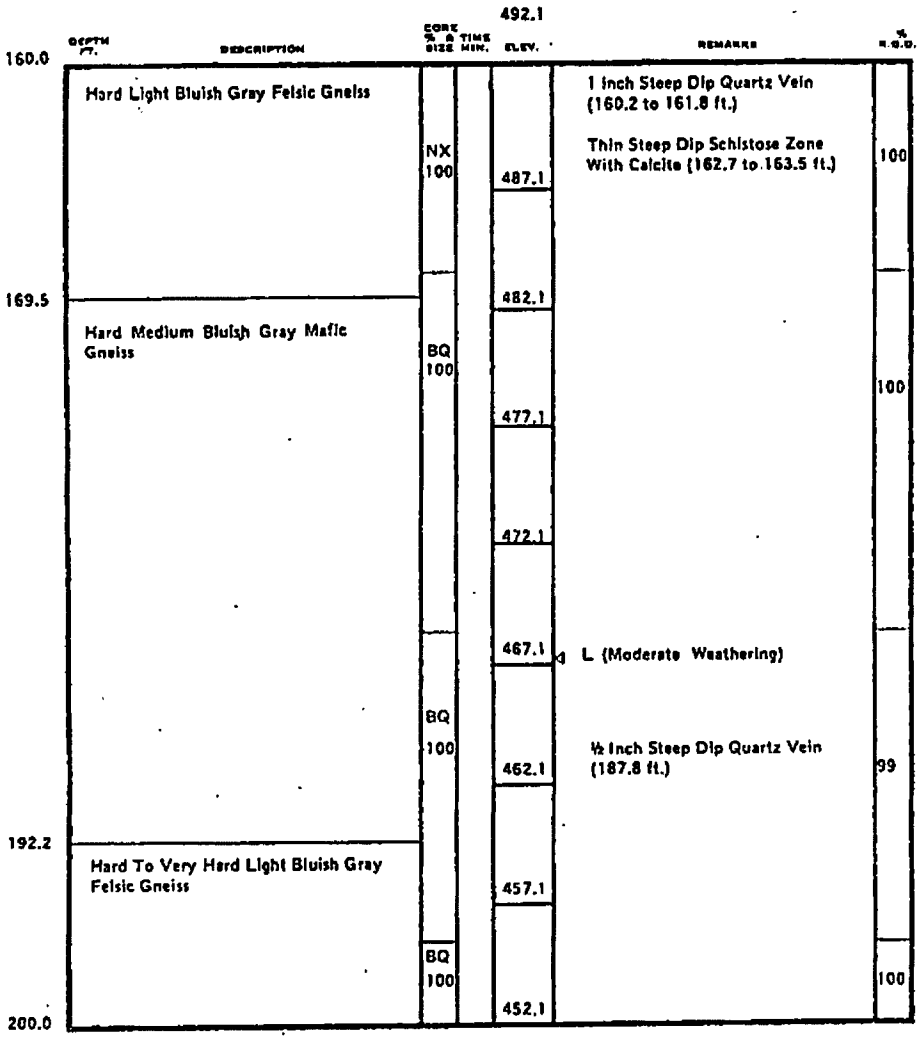
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 6

TEST BORING RECORD

BORING NO. B-45CP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

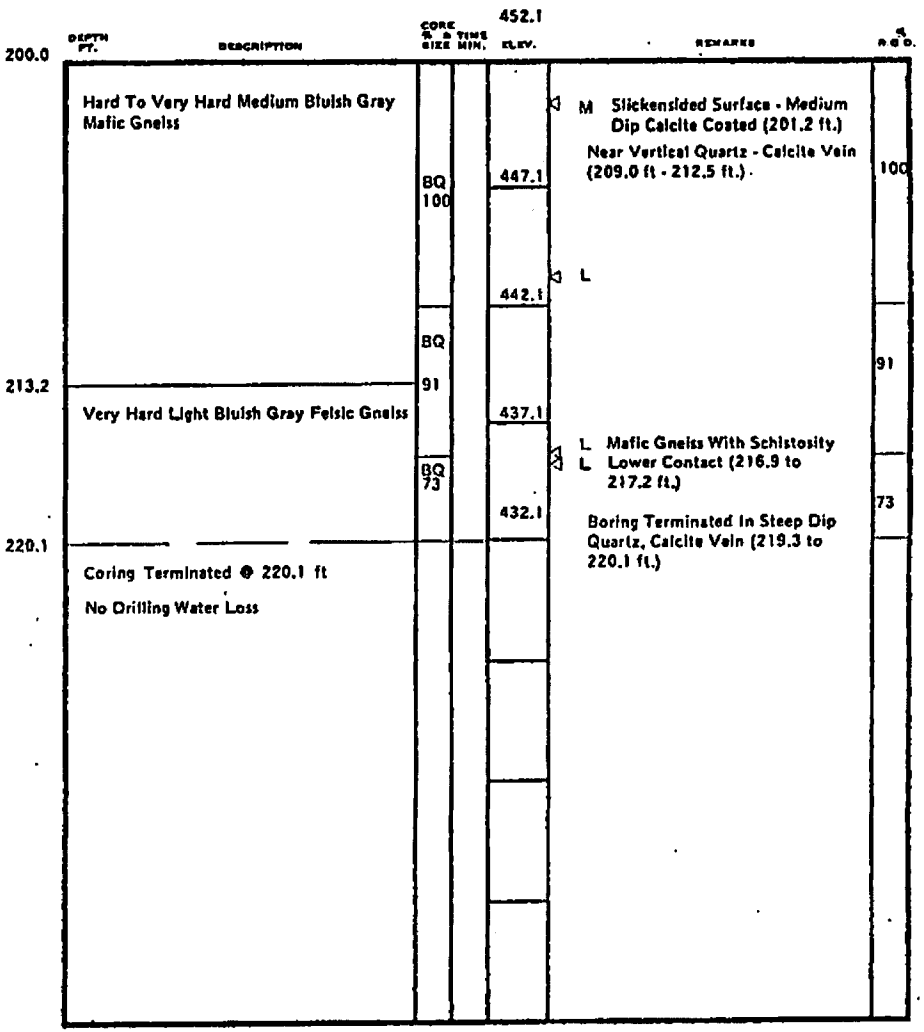
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 5 of 6

TEST BORING RECORD

BORING NO. B-45CP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

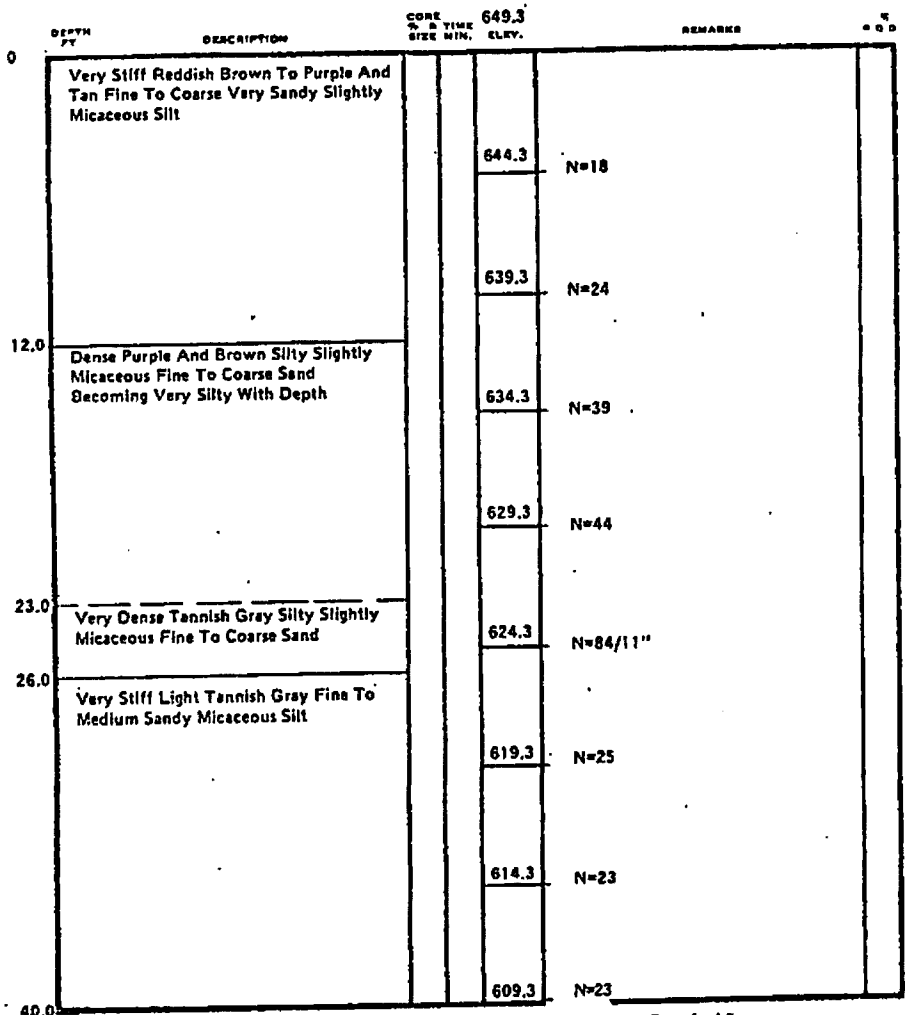
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 6 of 6

TEST BORING RECORD

BORING NO. B-45CP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



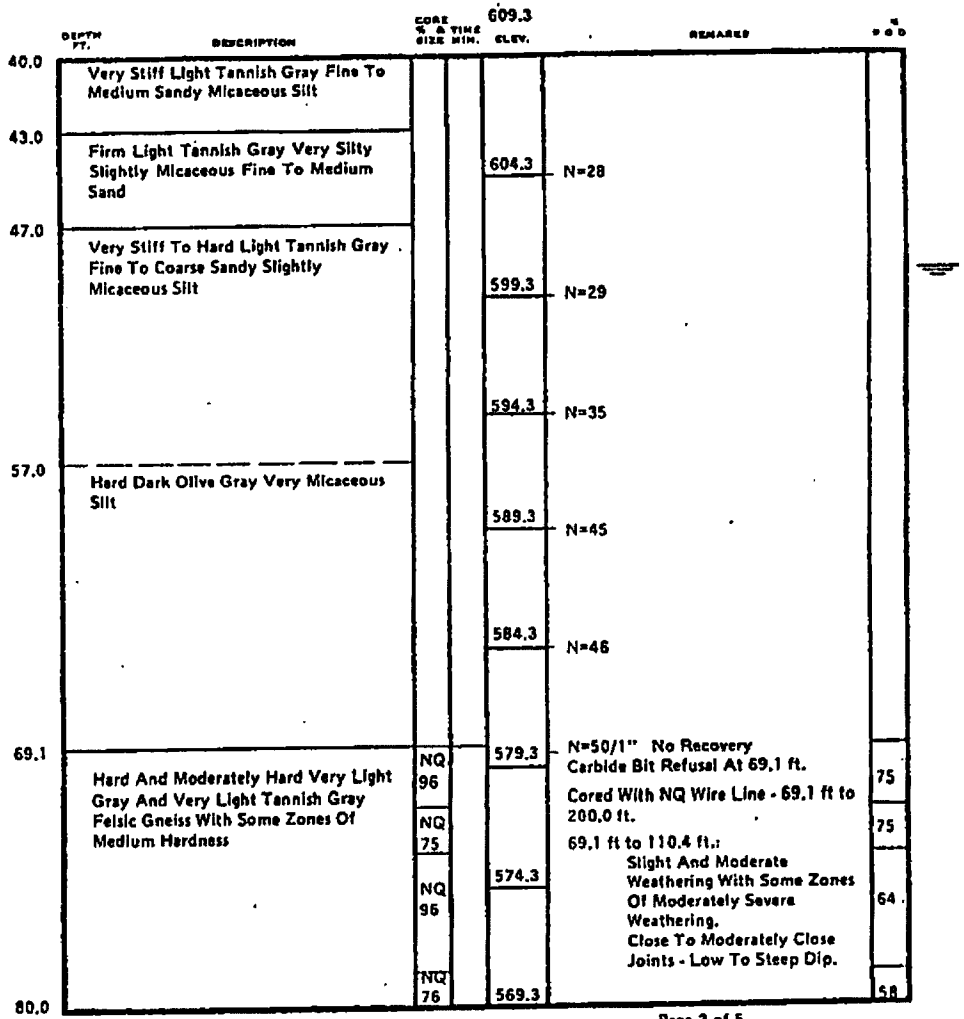
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



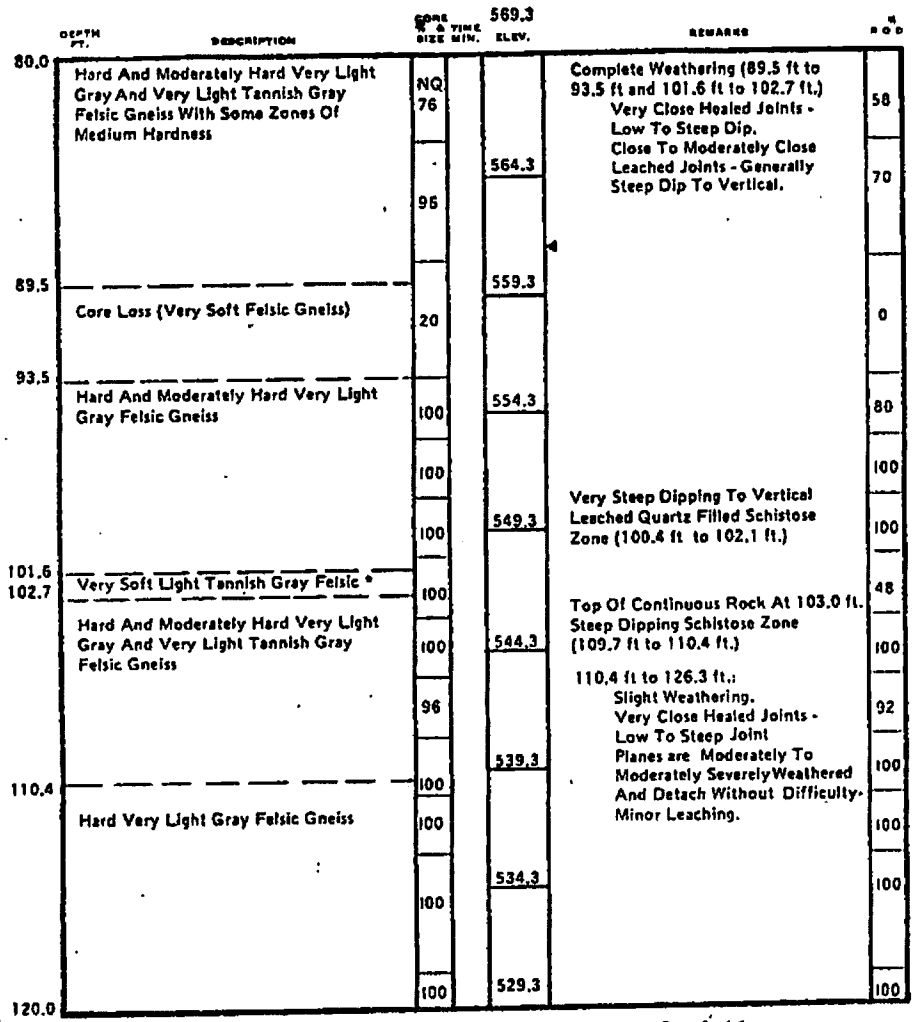
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 5

TEST BORING RECORD

BORING NO. B-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

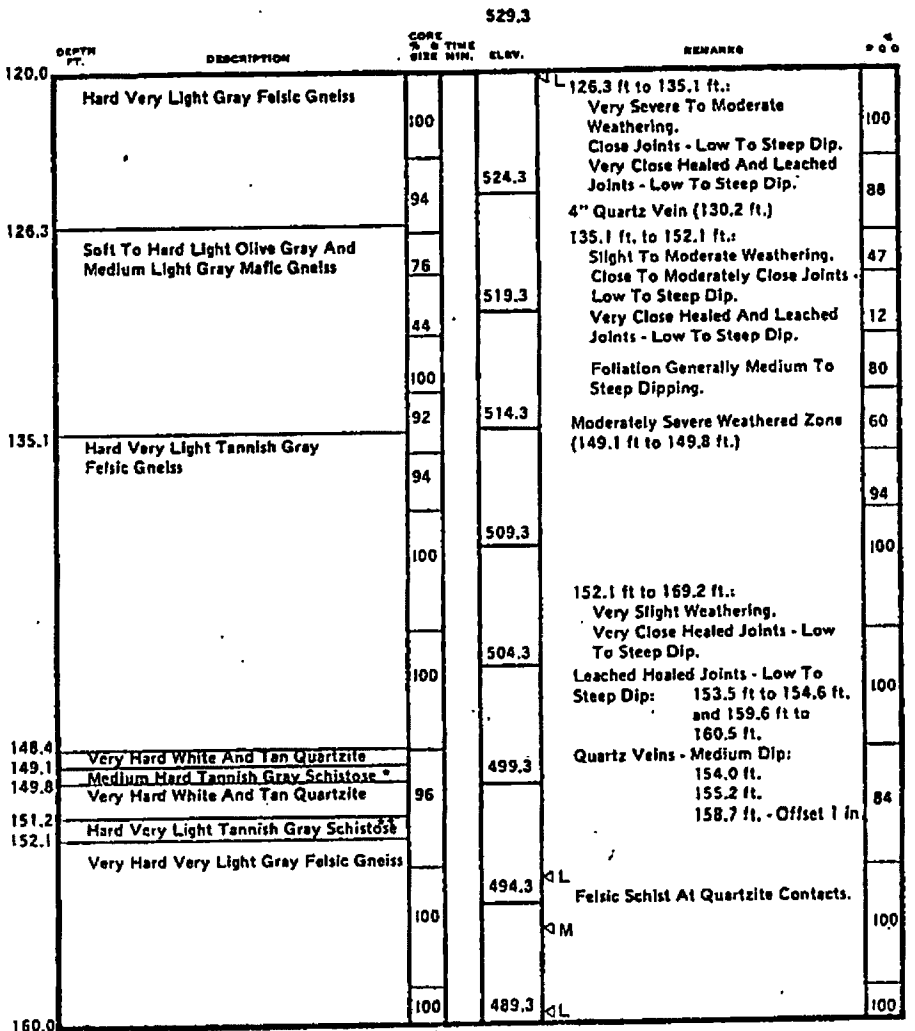
* Gneiss

ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

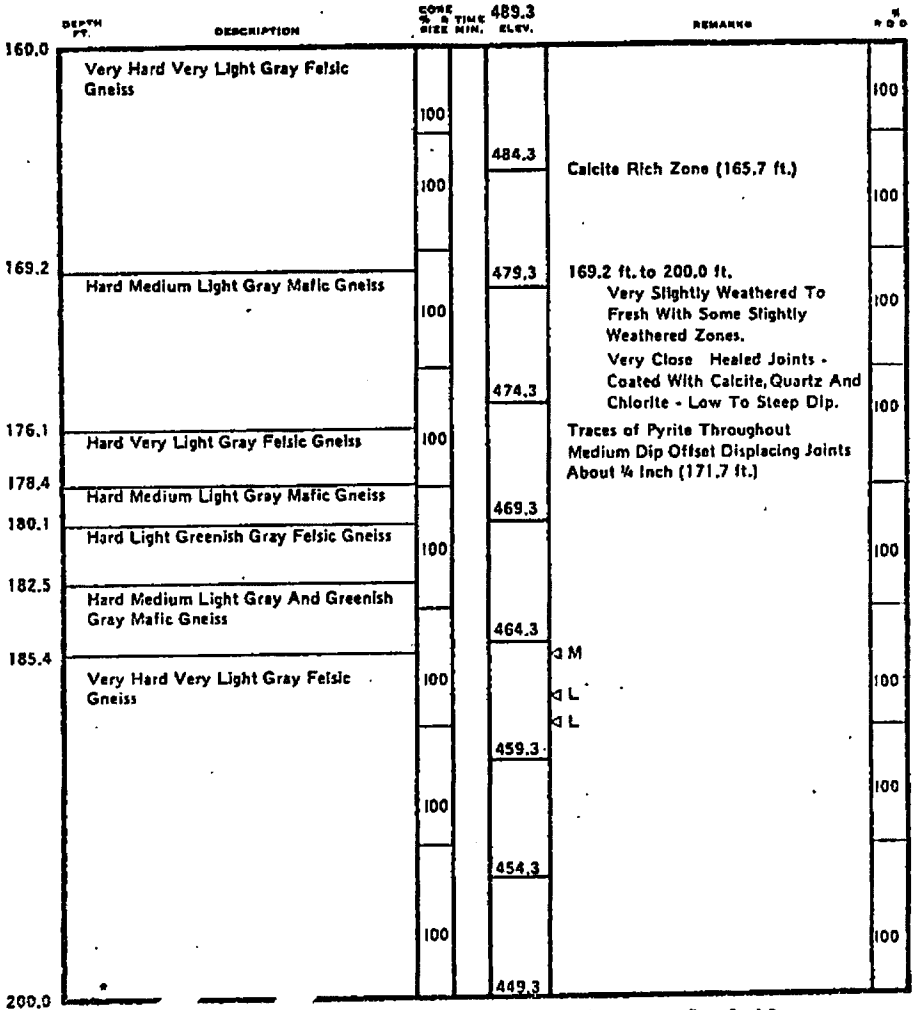
* Sericitic Felsic Gneiss
** Sericitic Felsic Gneiss

ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



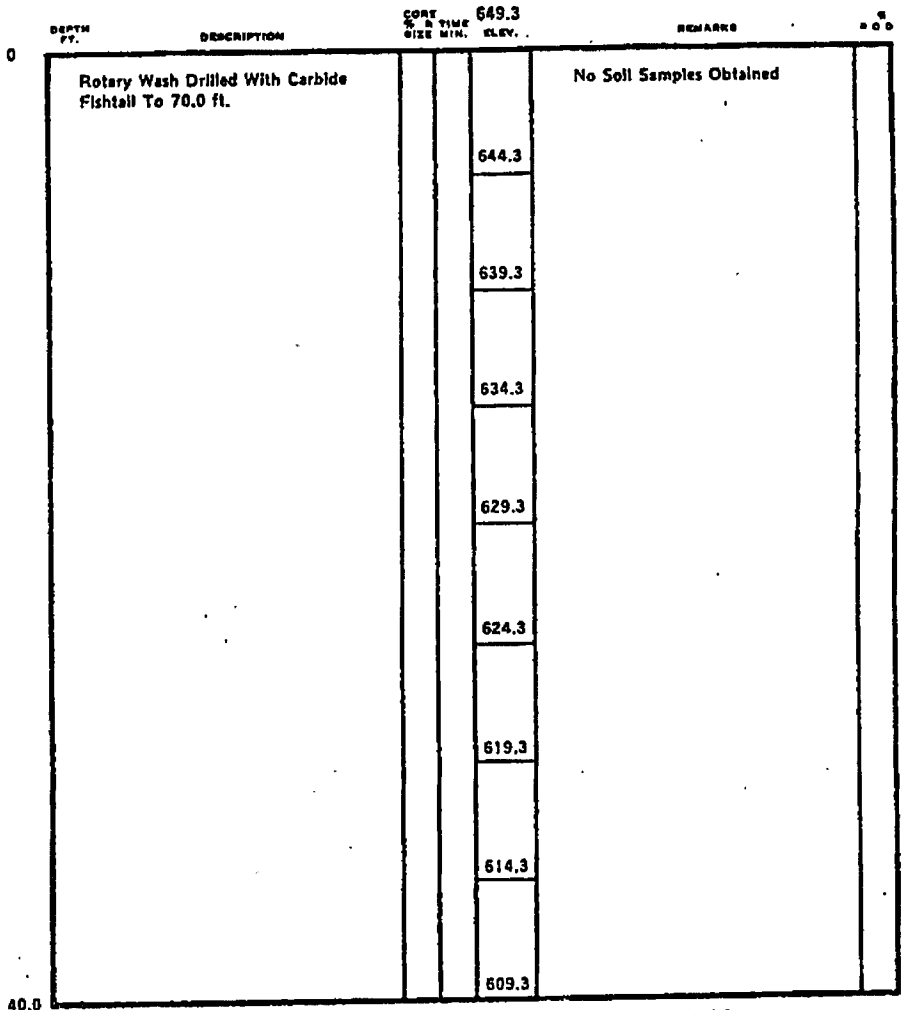
BORING AND SAMPLING MEETS ASTM D-1586 *Coring Terminated At 200.0 ft.
CORE DRILLING MEETS ASTM D-2113 Groundwater At 49.0 ft After 24 Hours
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT. At 88.0 ft.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
% ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



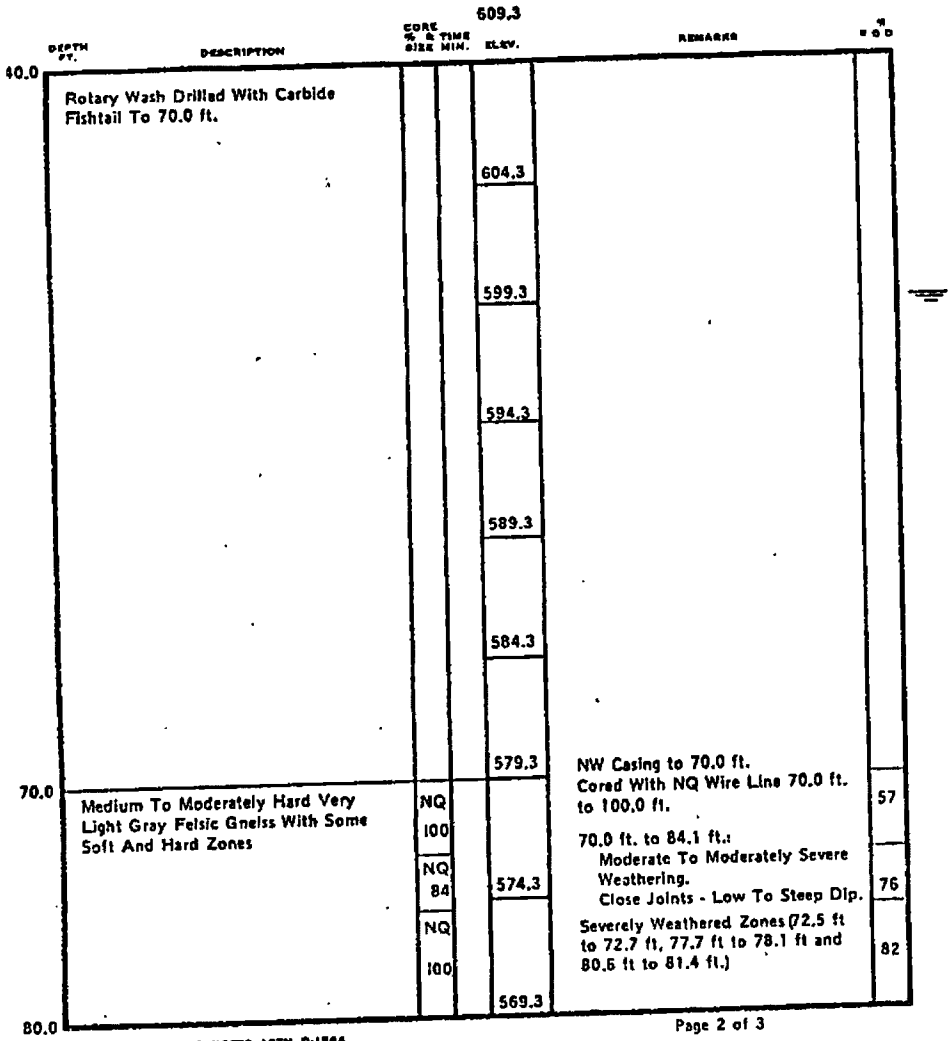
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
% ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-45D1
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 2 of 3

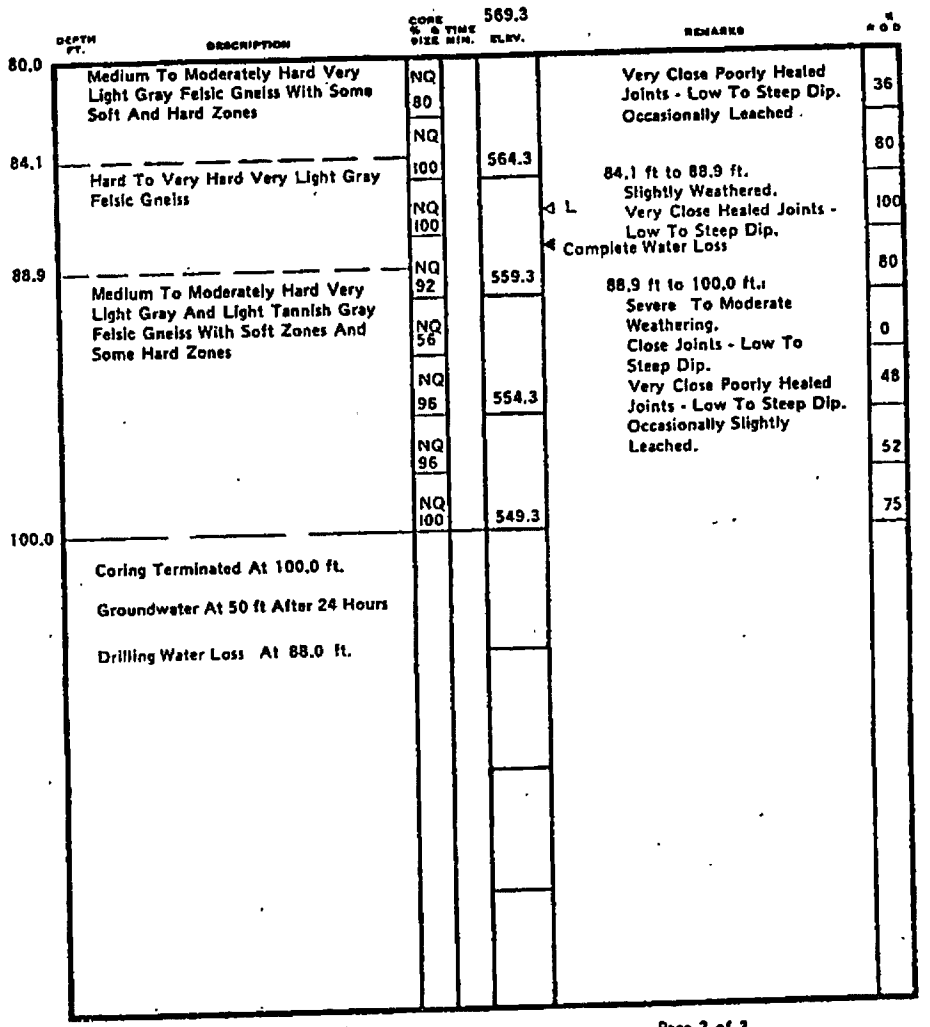
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45D1
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 3 of 3

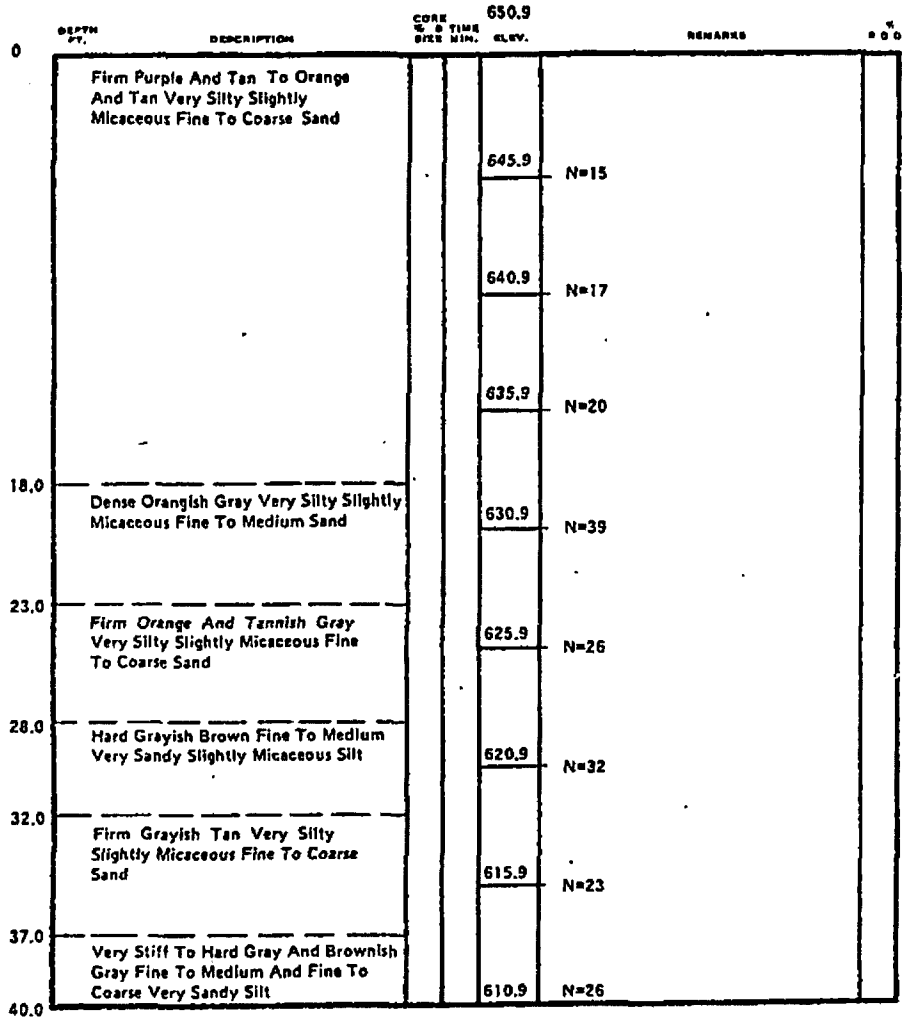
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45D1
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



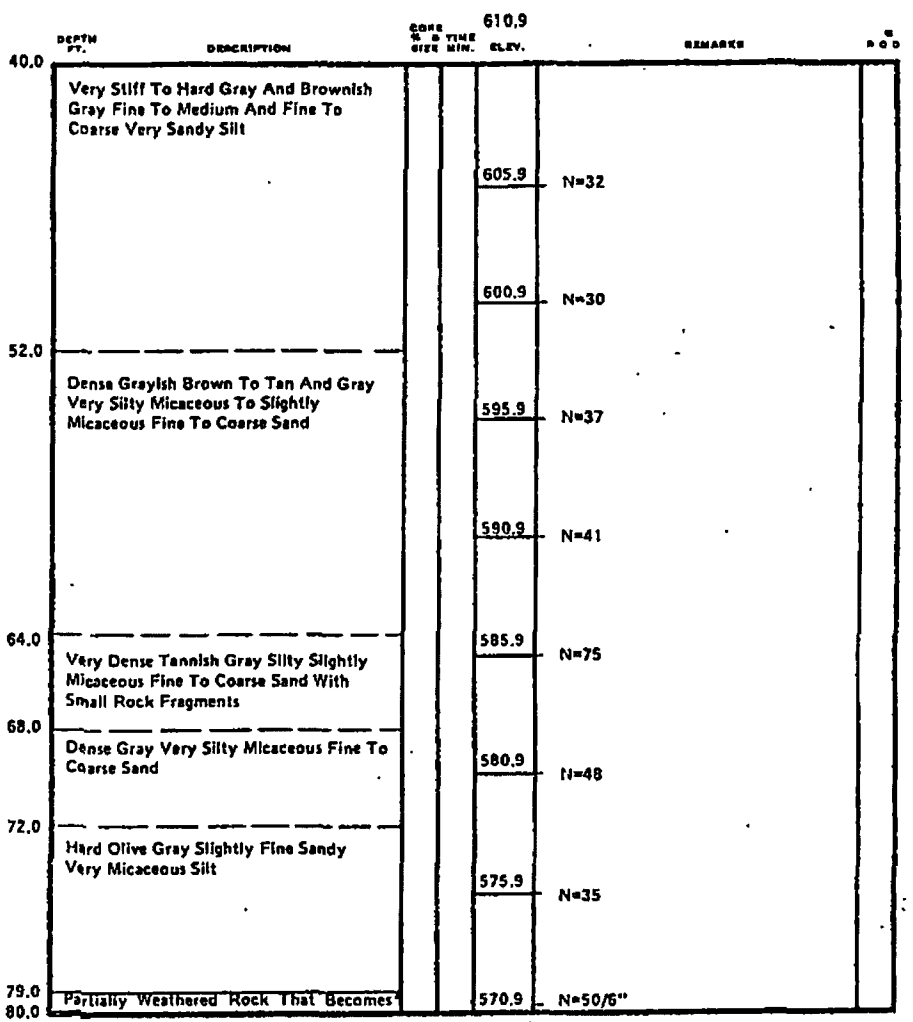
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 1 of 7

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

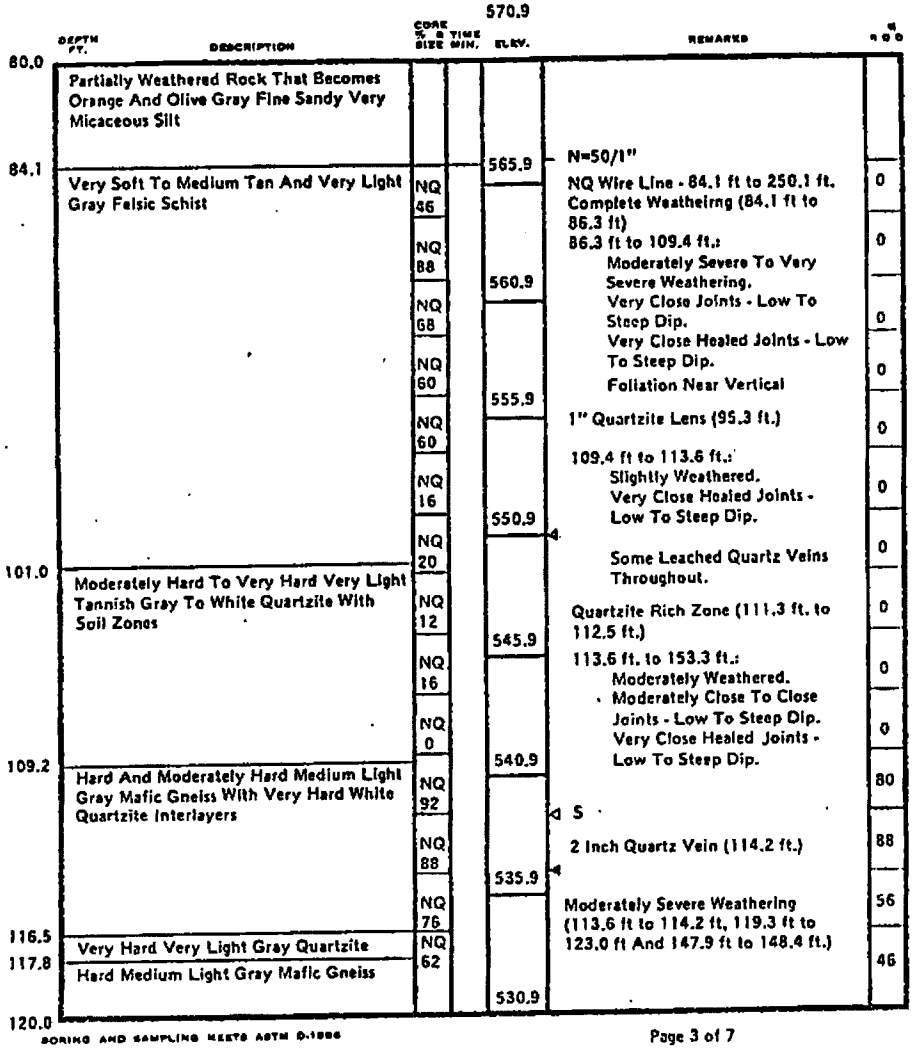
* Orange And Olive Gray Fine Sandy Very Micaceous Silt

Page 2 of 7

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



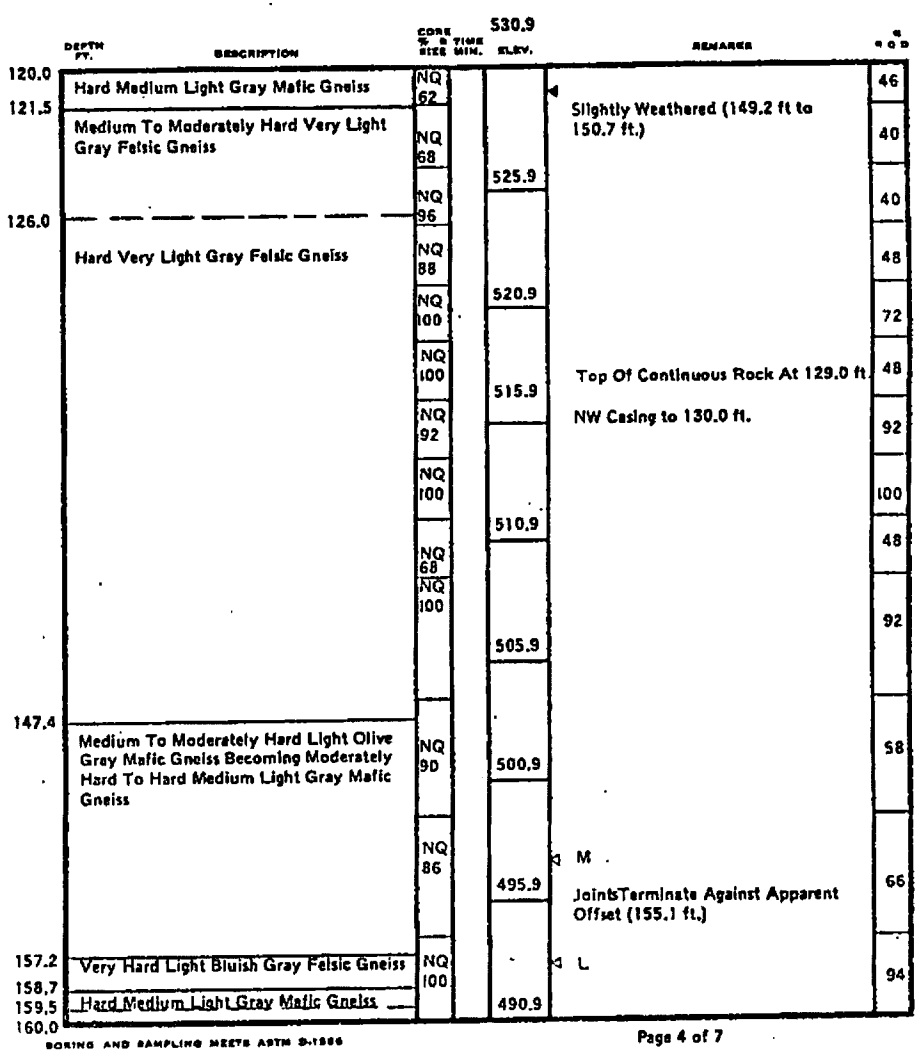
DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	570.9 ELEV.	REMARKS	% R Q D
80.0	Partially Weathered Rock That Becomes Orange And Olive Gray Fine Sandy Very Micaceous Silt					
84.1	Very Soft To Medium Tan And Very Light Gray Felsic Schist	NQ	46	565.9	N=50/1"	0
		NQ	88		NQ Wire Line - 84.1 ft to 250.1 ft. Complete Weathering (84.1 ft to 86.3 ft)	0
		NQ	68	560.9	86.3 ft to 109.4 ft.: Moderately Severe To Very Severe Weathering. Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Foliation Near Vertical	0
		NQ	60			0
		NQ	60	555.9	1" Quartzite Lens (95.3 ft.)	0
		NQ	16		109.4 ft to 113.6 ft.: Slightly Weathered. Very Close Healed Joints - Low To Steep Dip.	0
		NQ	20	550.9	Some Leached Quartz Veins Throughout.	0
101.0	Moderately Hard To Very Hard Very Light Tannish Gray To White Quartzite With Soil Zones	NQ	12		Quartzite Rich Zone (111.3 ft. to 112.5 ft.)	0
		NQ	16	545.9	113.6 ft. to 153.3 ft.: Moderately Weathered. Moderately Close To Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip.	0
		NQ	0			0
109.2	Hard And Moderately Hard Medium Light Gray Mafic Gneiss With Very Hard White Quartzite Interlayers	NQ	92	540.9	S	80
		NQ	88		2 Inch Quartz Vein (114.2 ft.)	88
		NQ	76	535.9	Moderately Severe Weathering (113.6 ft to 114.2 ft, 119.3 ft to 123.0 ft And 147.9 ft to 148.4 ft.)	56
116.5	Very Hard Very Light Gray Quartzite	NQ	62			46
117.8	Hard Medium Light Gray Mafic Gneiss			530.9		
120.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



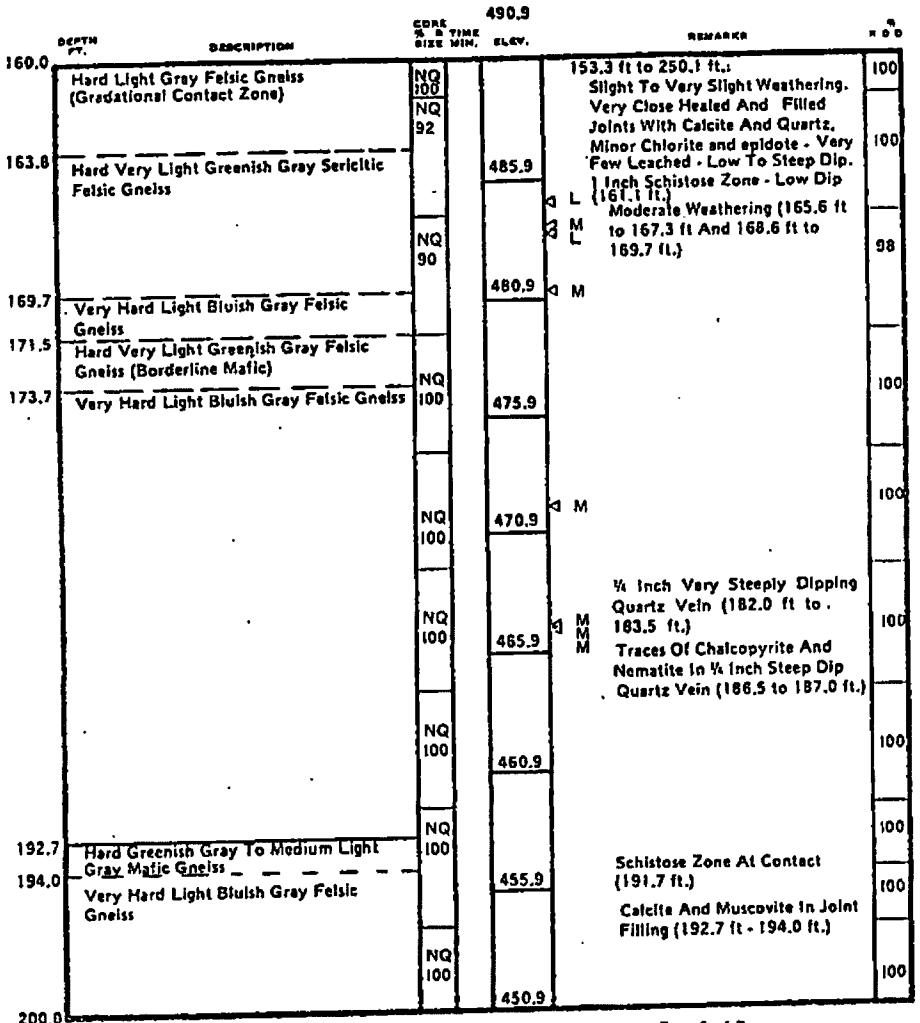
DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	530.9 ELEV.	REMARKS	% R Q D
120.0	Hard Medium Light Gray Mafic Gneiss	NQ	62			46
121.5	Medium To Moderately Hard Very Light Gray Felsic Gneiss	NQ	68		Slightly Weathered (149.2 ft to 150.7 ft.)	40
		NQ	96	525.9		40
126.0	Hard Very Light Gray Felsic Gneiss	NQ	88			48
		NQ	100	520.9		72
		NQ	100		Top Of Continuous Rock At 129.0 ft.	48
		NQ	100	515.9	NW Casing to 130.0 ft.	92
		NQ	92			100
		NQ	100	510.9		48
		NQ	68			92
		NQ	100	505.9		
147.4	Medium To Moderately Hard Light Olive Gray Mafic Gneiss Becoming Moderately Hard To Hard Medium Light Gray Mafic Gneiss	NQ	90	500.9		58
		NQ	86		M	66
				495.9	JointsTerminate Against Apparent Offset (155.1 ft.)	
157.2	Very Hard Light Bluish Gray Felsic Gneiss	NQ	100		L	94
158.7						
159.5	Hard Medium Light Gray Mafic Gneiss			490.9		
160.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

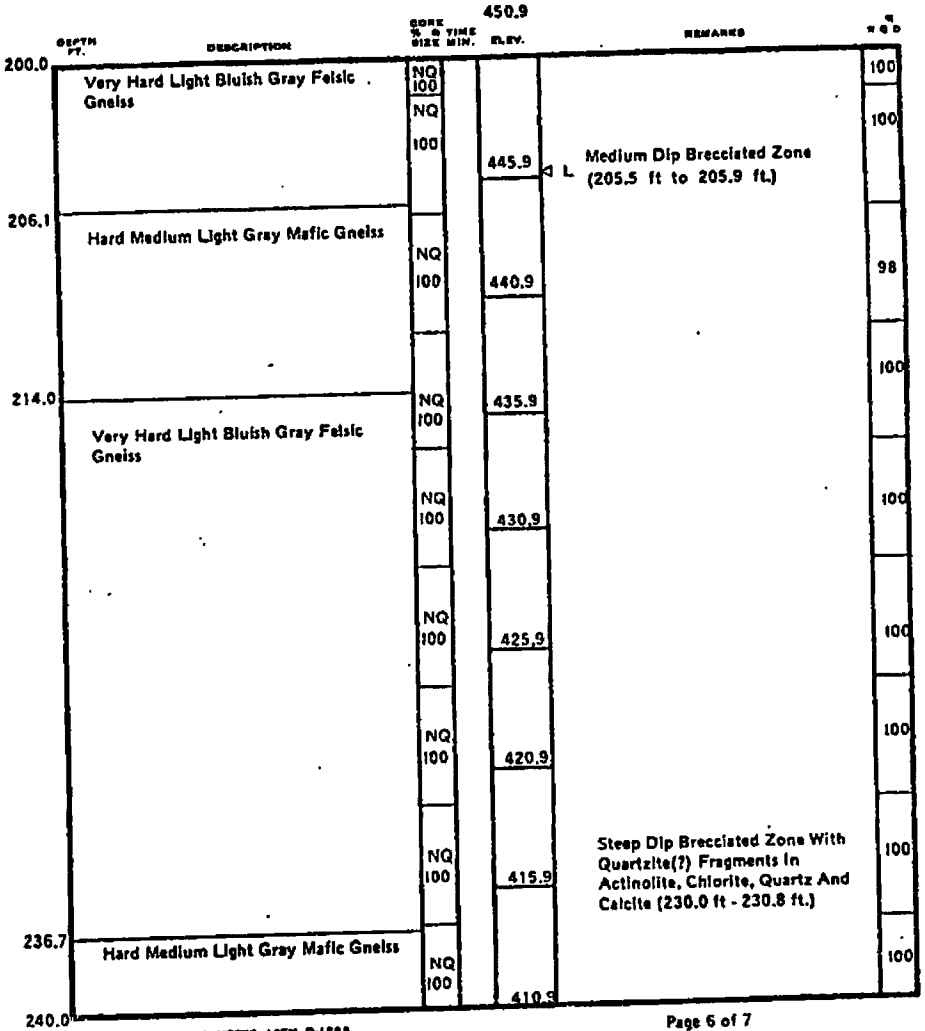


Page 5 of 7

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

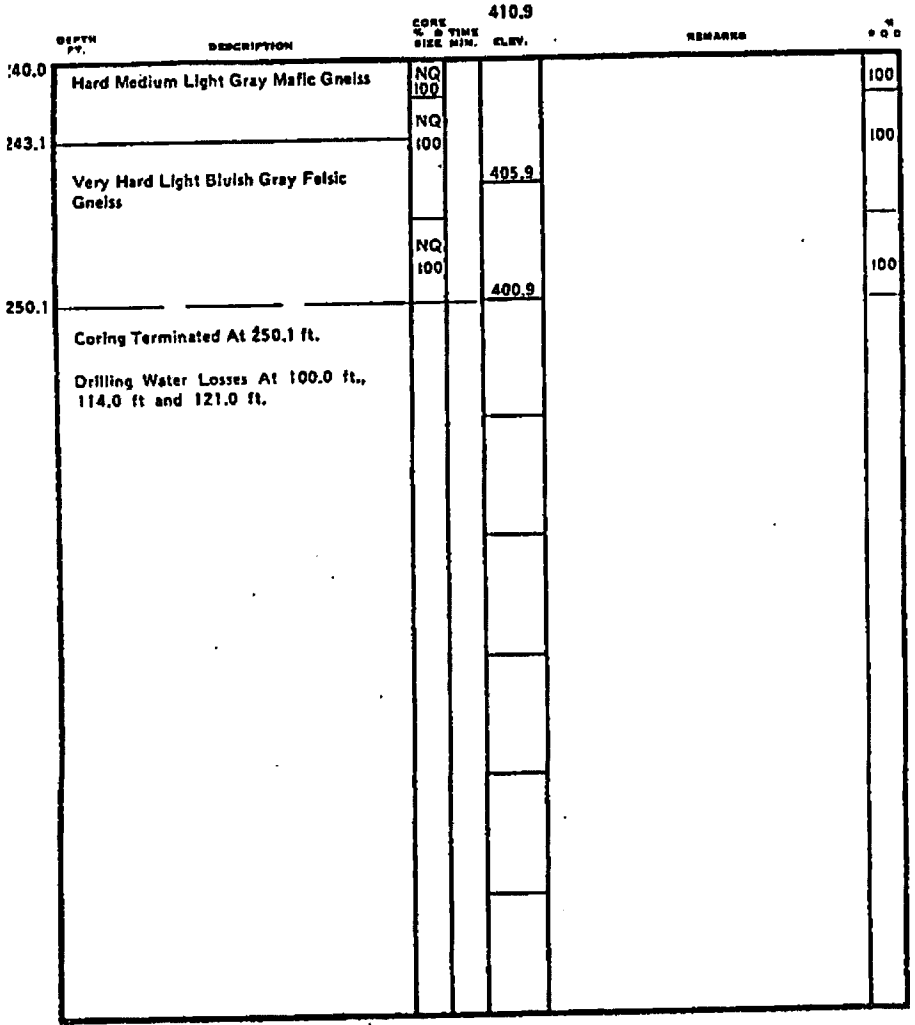


Page 6 of 7

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

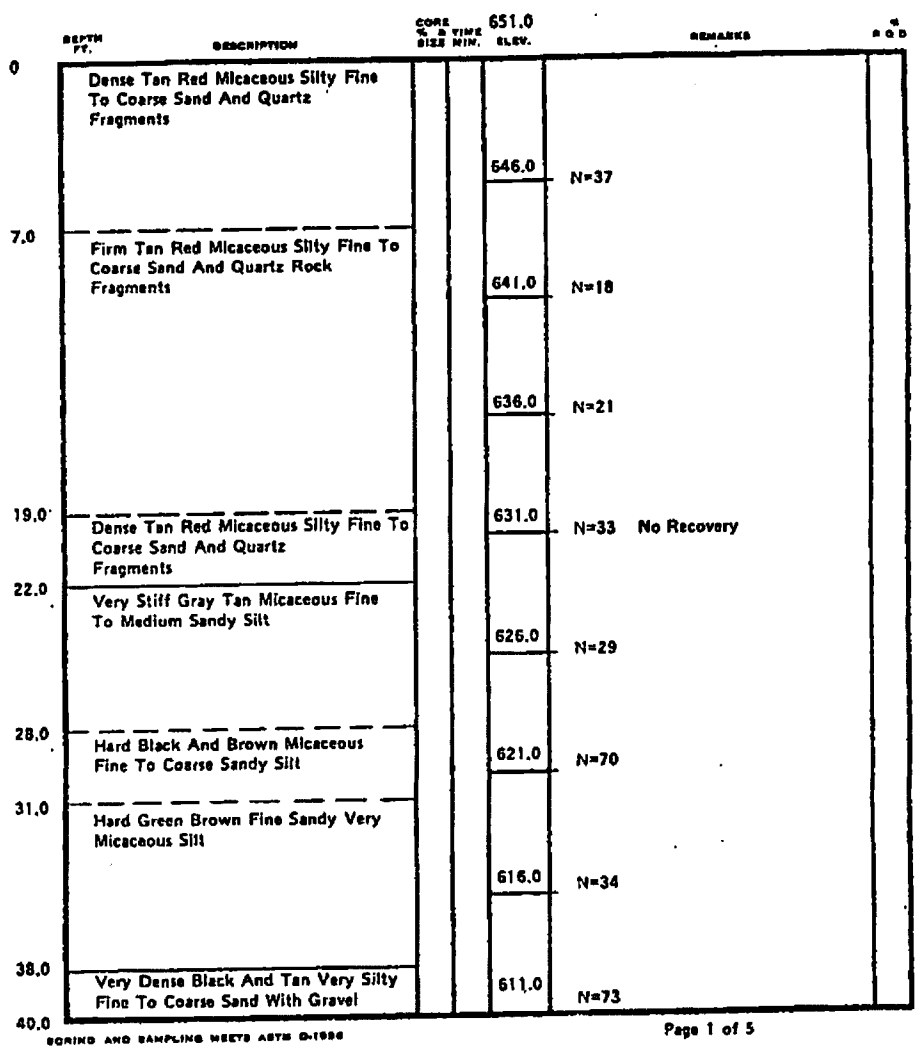
ROCK JOINTS
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 7 of 7

TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

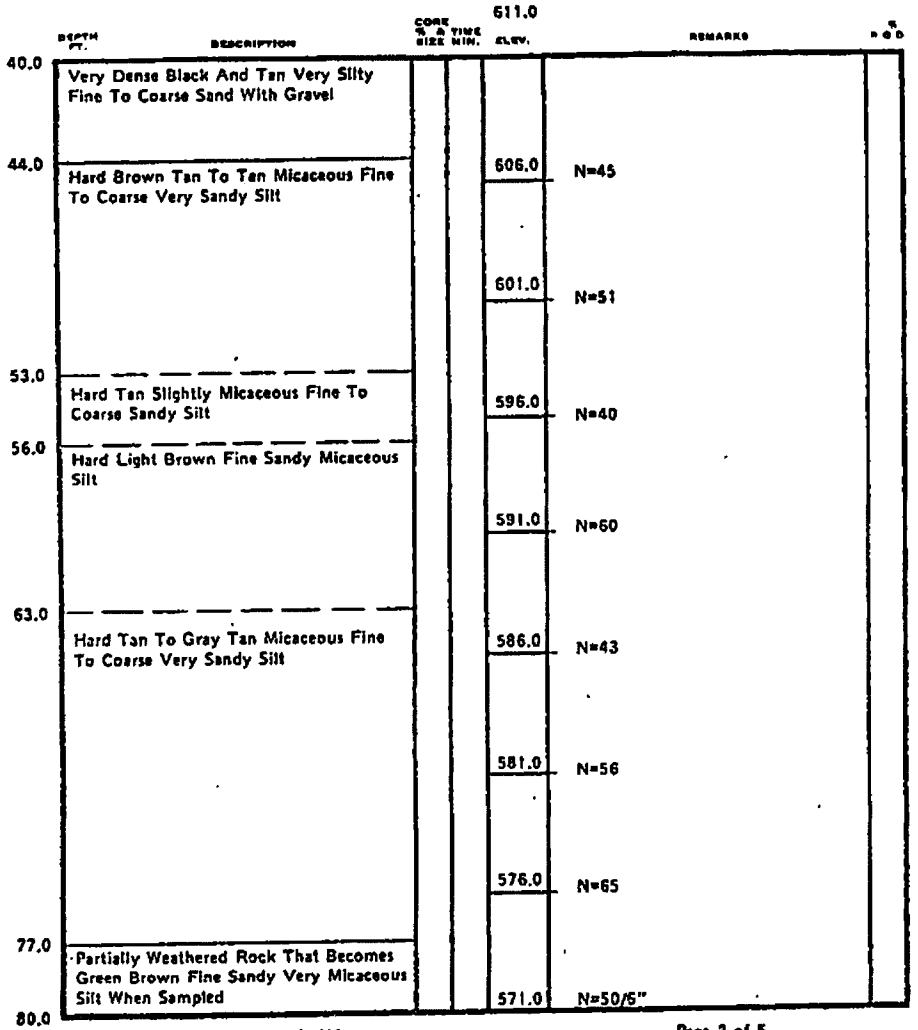
ROCK JOINTS
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-45F
DATE DRILLED 12-27-73
JOB NO. CH 2920

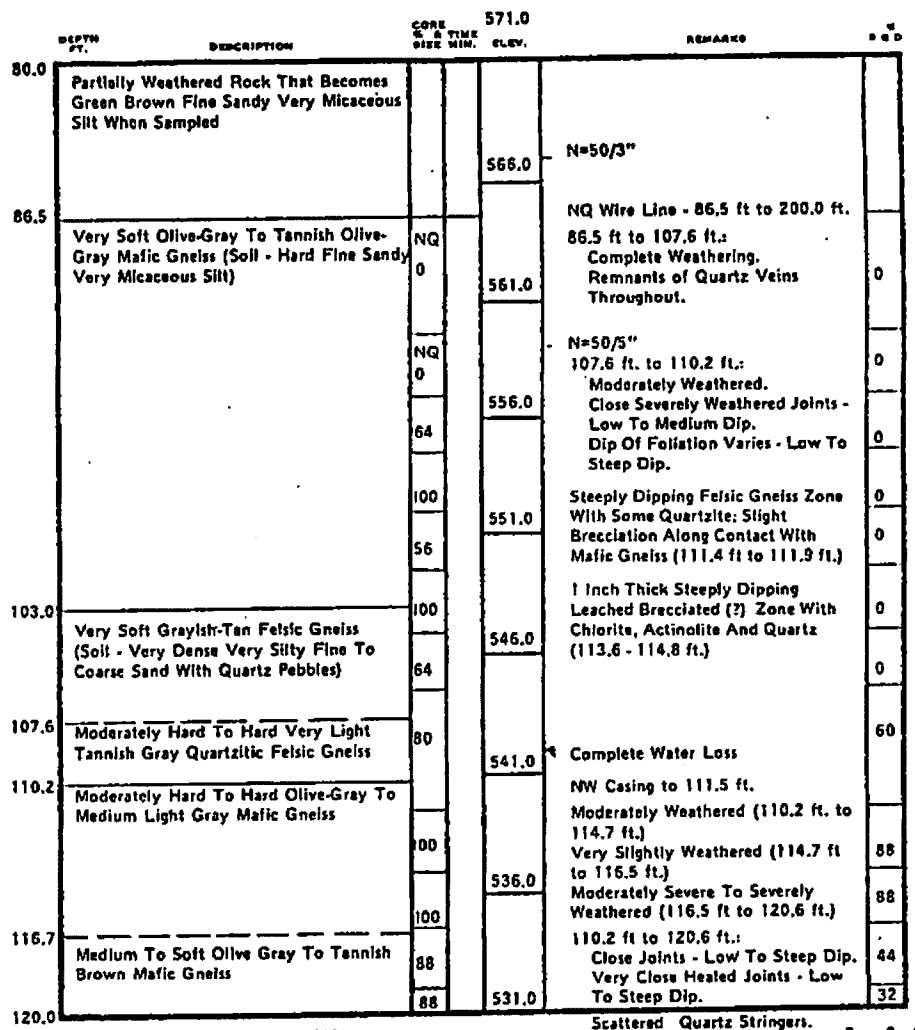
LAW ENGINEERING TESTING CO.



TEST BORING RECORD

BORING NO. B-45F
DATE DRILLED 12-27-73
JOB NO. CH 2920

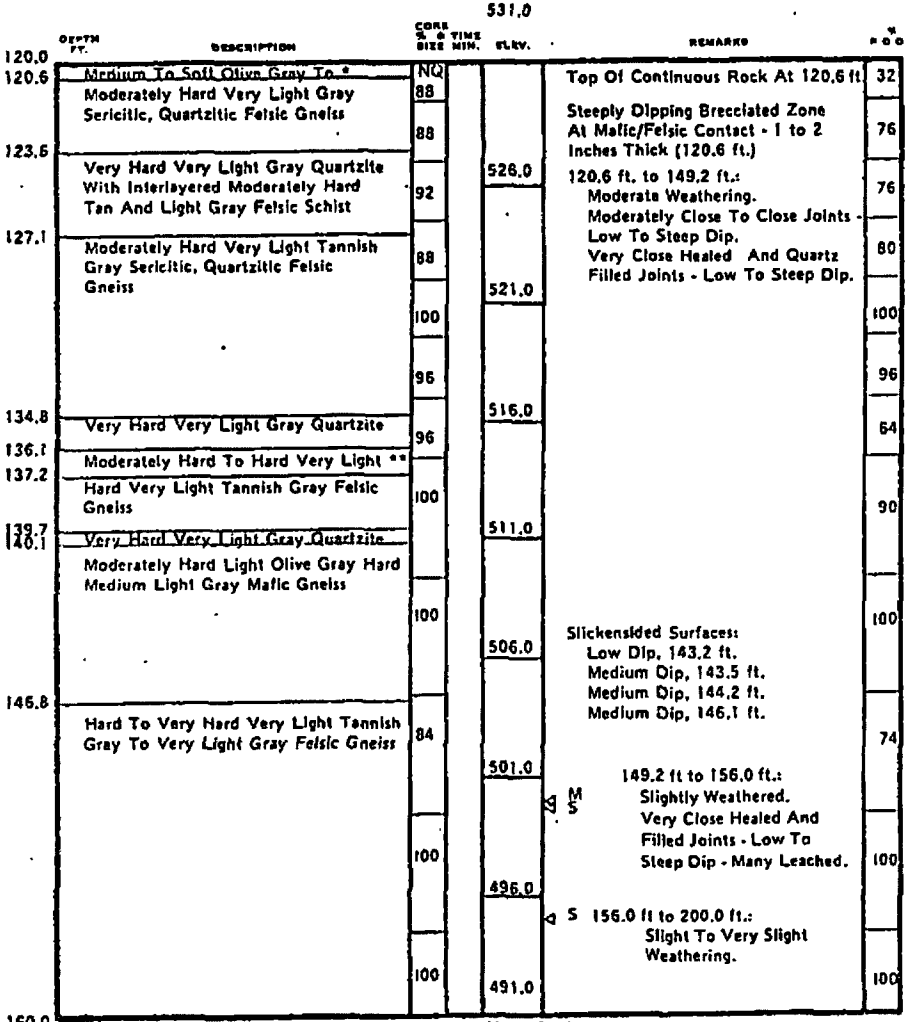
LAW ENGINEERING TESTING CO.



TEST BORING RECORD

BORING NO. B-45F
DATE DRILLED 12-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



Page 4 of 5

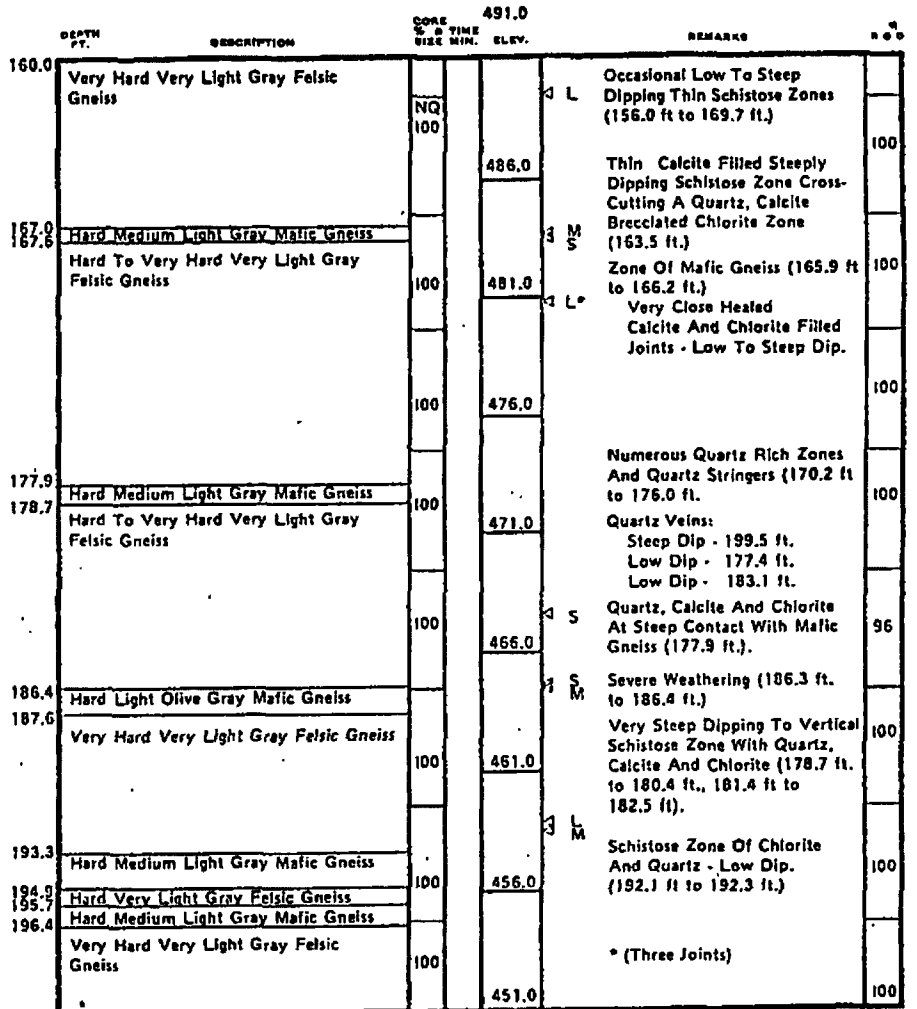
TEST BORING RECORD

BORING NO. B-45F

DATE DRILLED 12-27-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 5 of 5

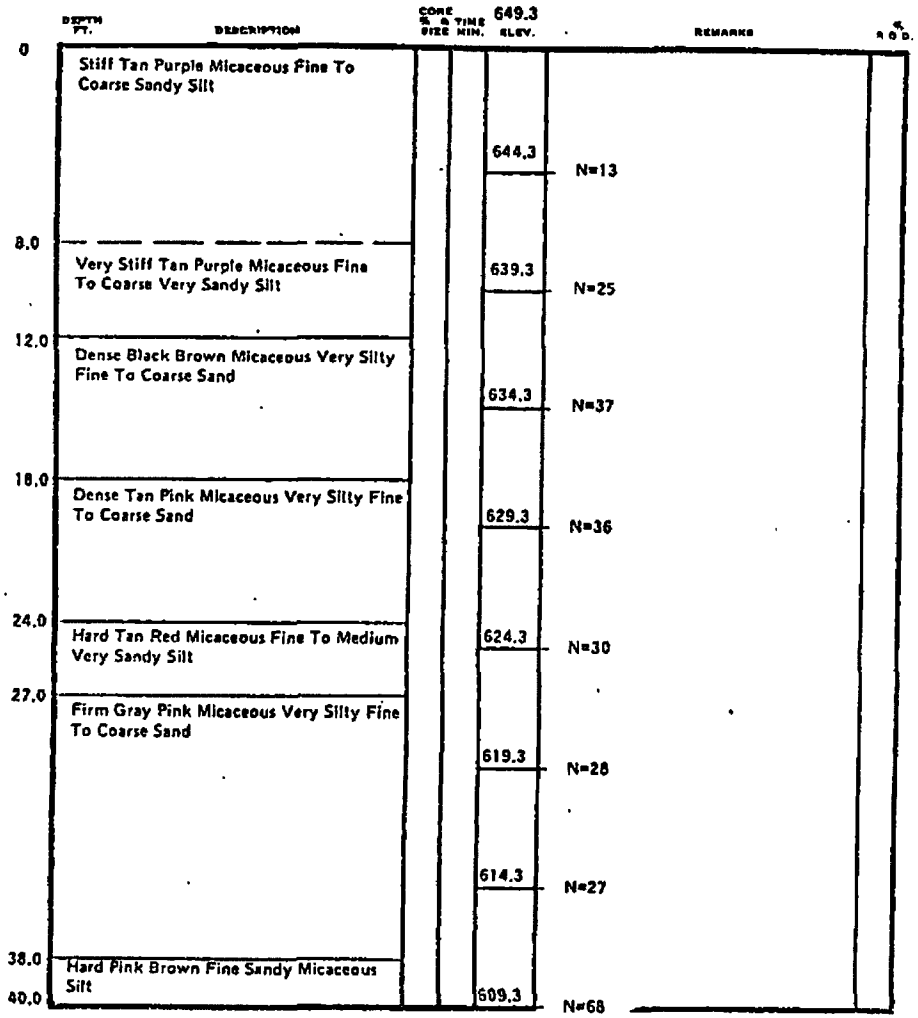
TEST BORING RECORD

BORING NO. B-45F

DATE DRILLED 12-27-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

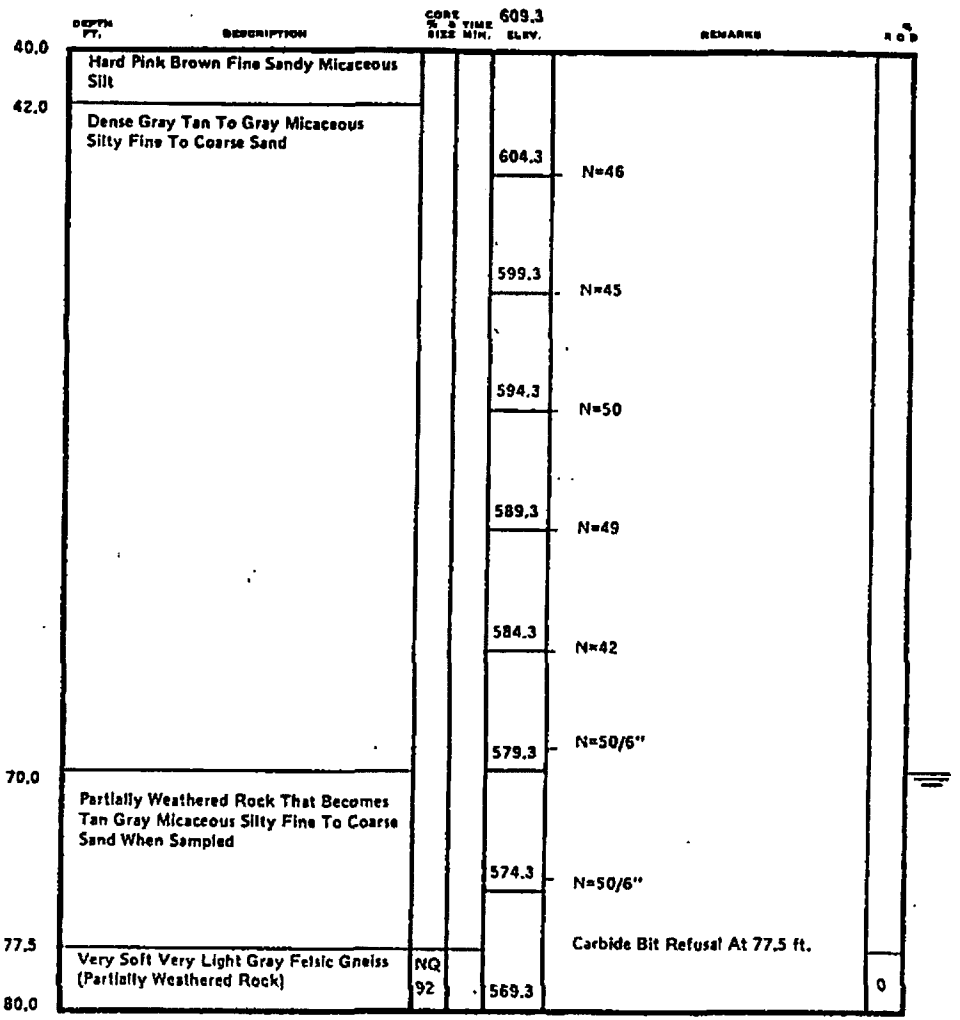
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45G
DATE DRILLED 2-6-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

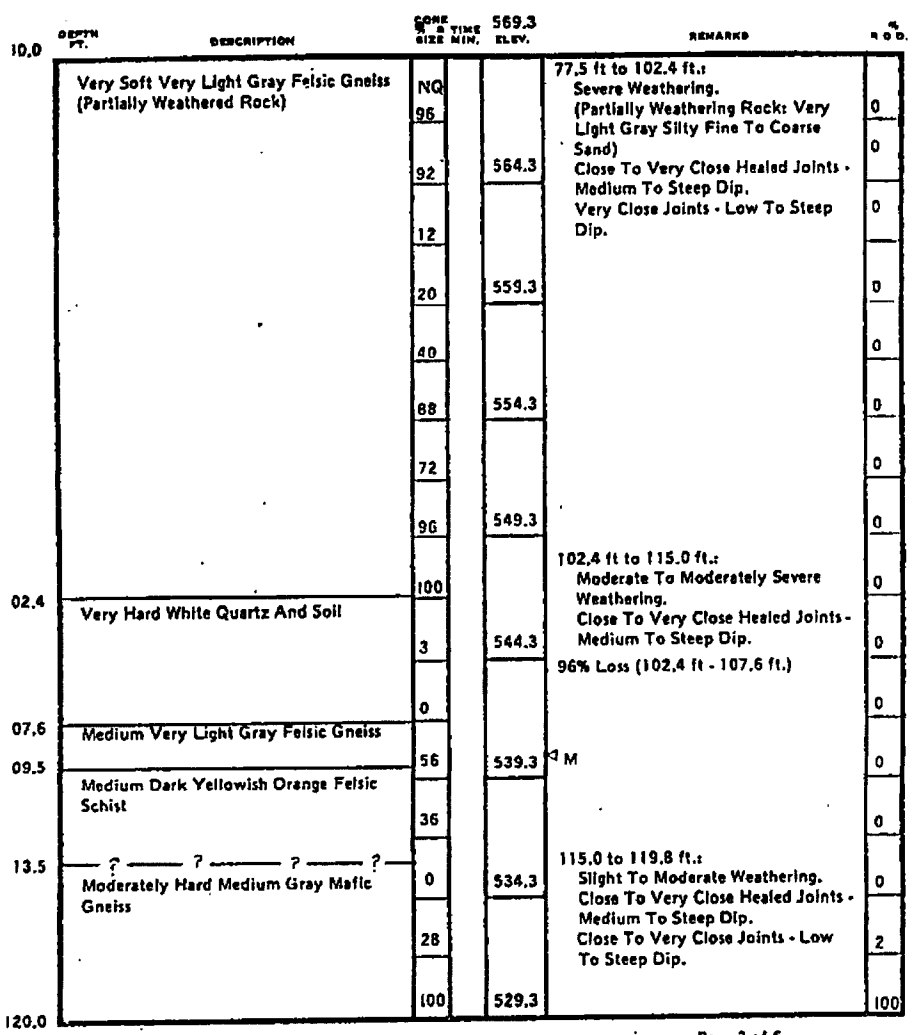
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-45G
DATE DRILLED 2-6-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

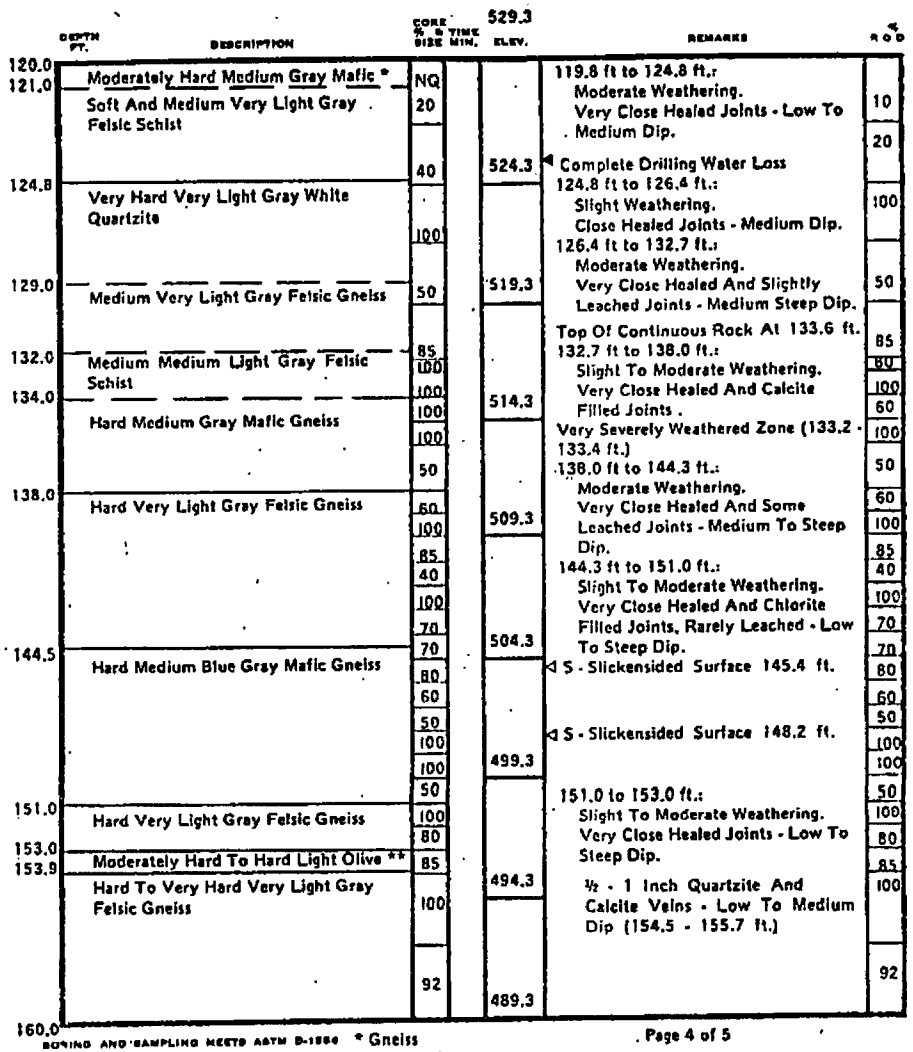
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 5

TEST BORING RECORD

BORING NO. B-45G
DATE DRILLED 2-6-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

* Gneiss
** Gray Mafic Gneiss

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

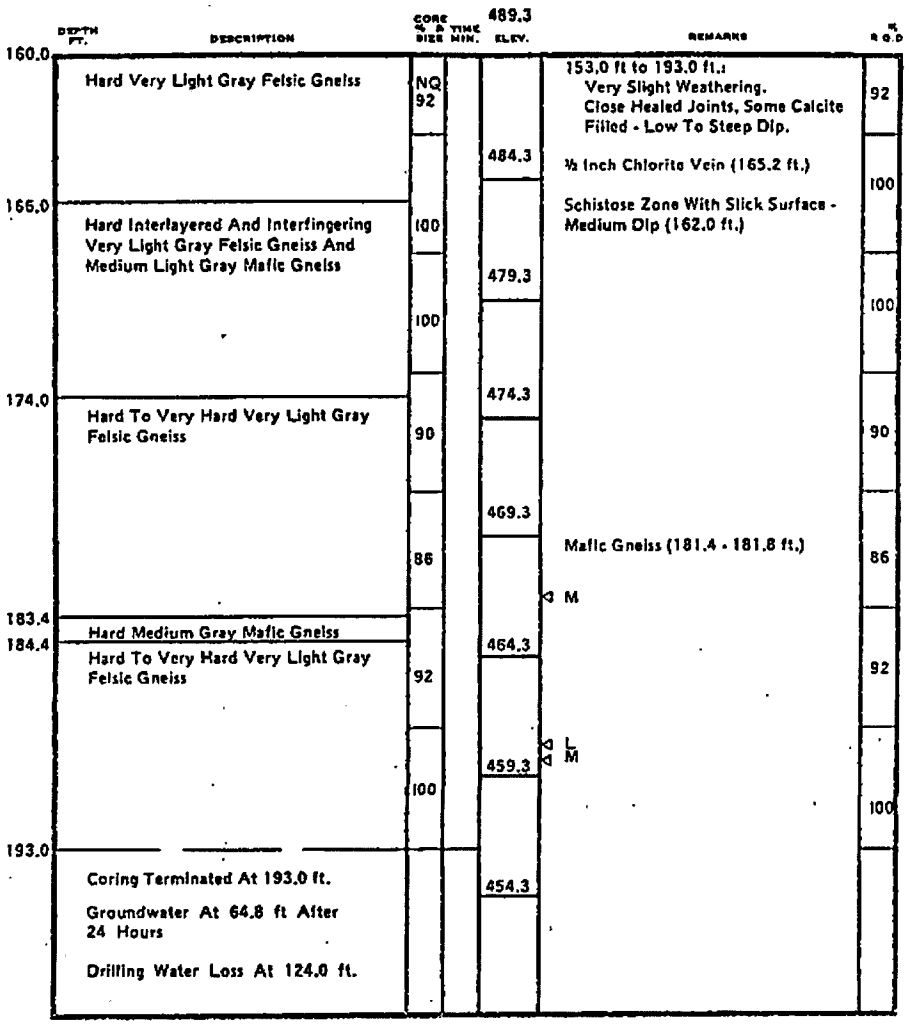
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 5

TEST BORING RECORD

BORING NO. B-45G
DATE DRILLED 2-6-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

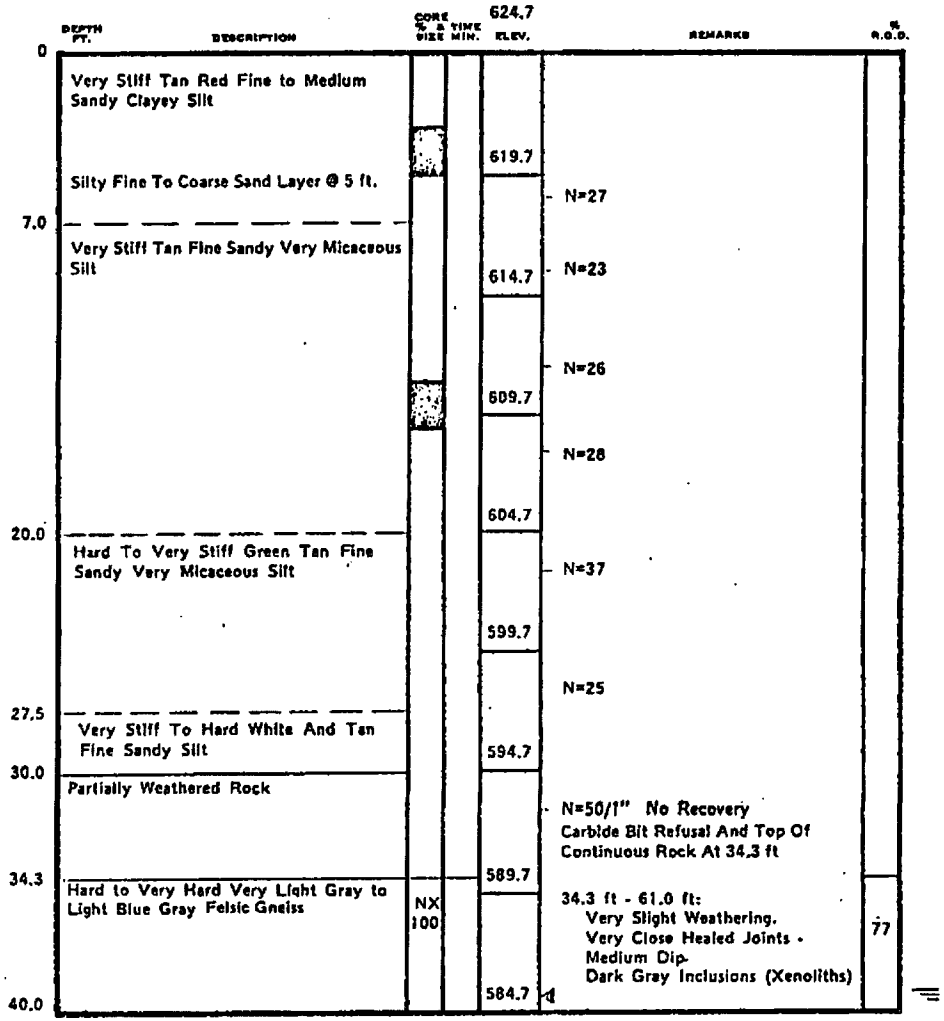
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-45G
DATE DRILLED 2-6-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

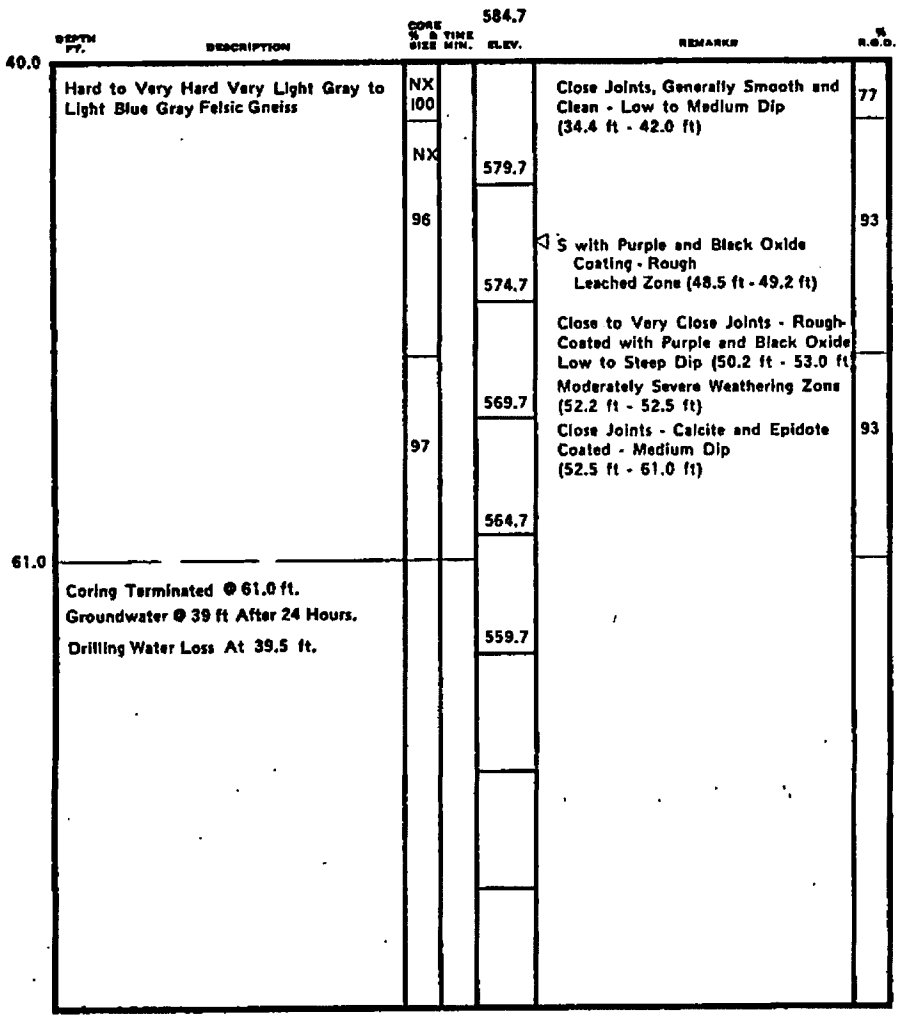
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-46
DATE DRILLED 7-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

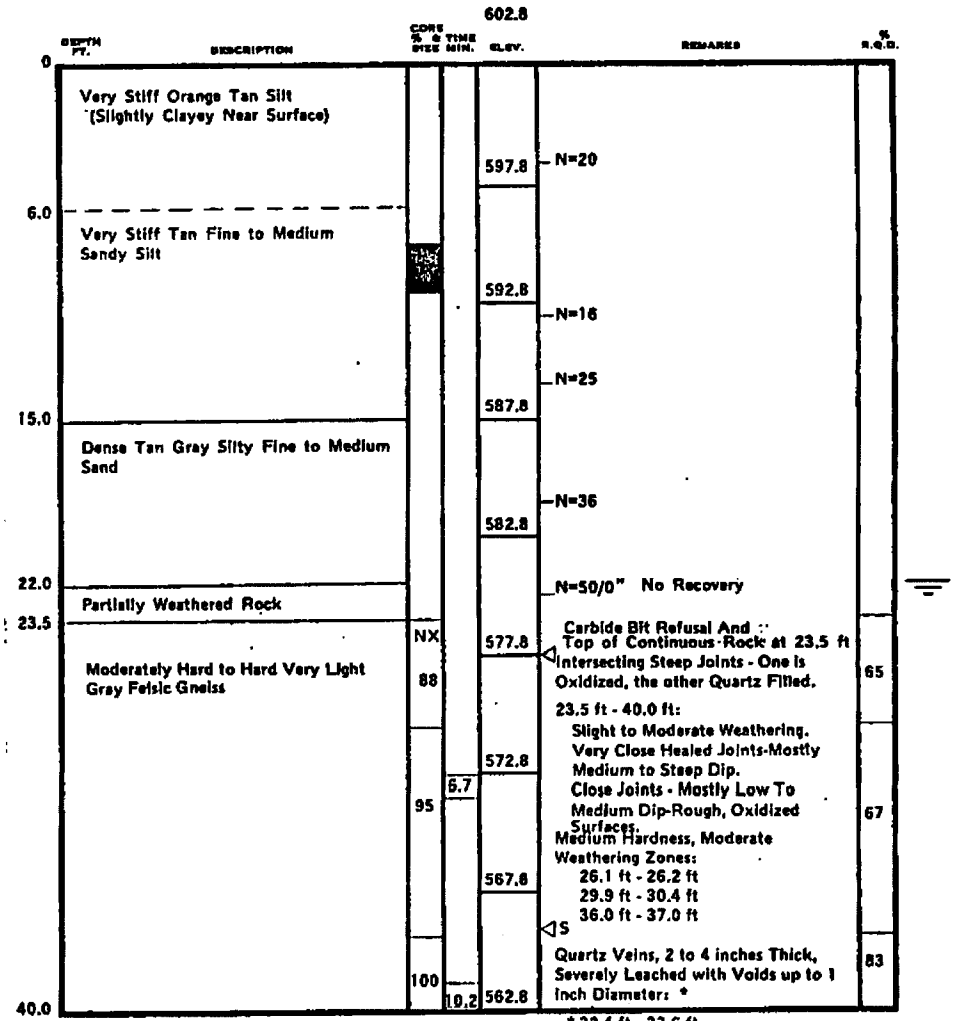
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-46
DATE DRILLED 7-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

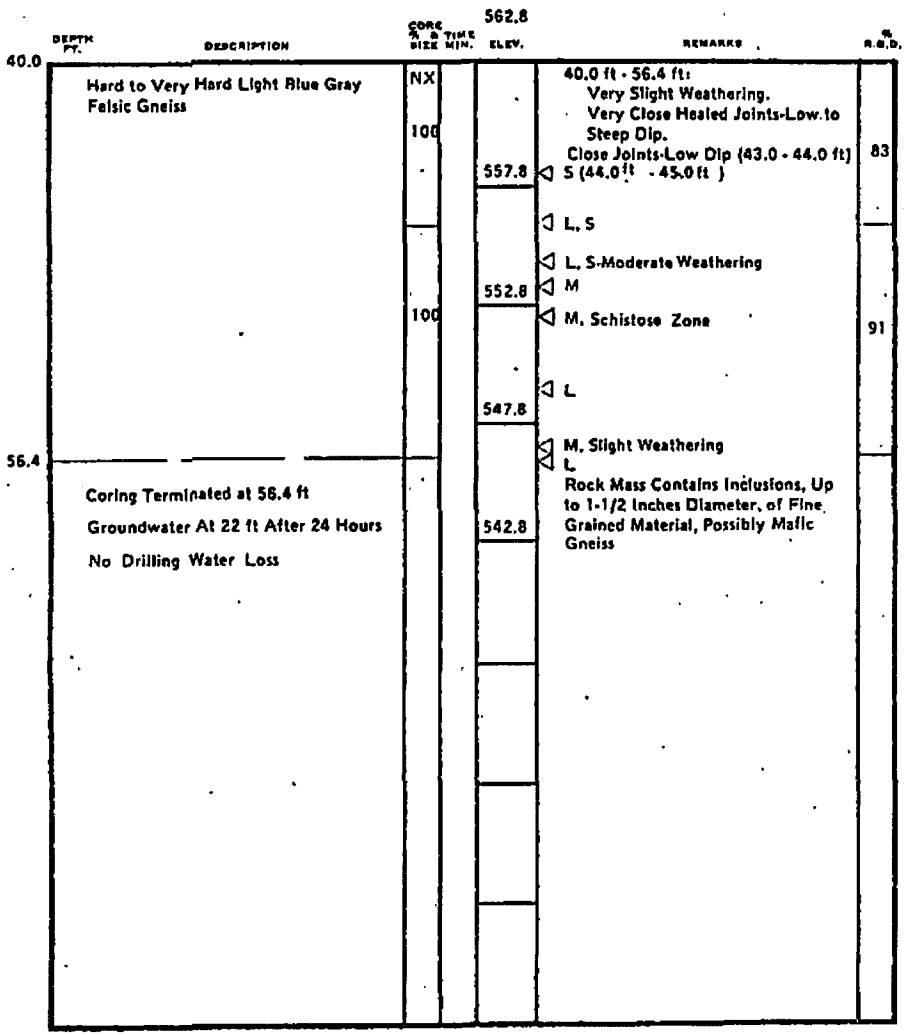
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-47
DATE DRILLED 7-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



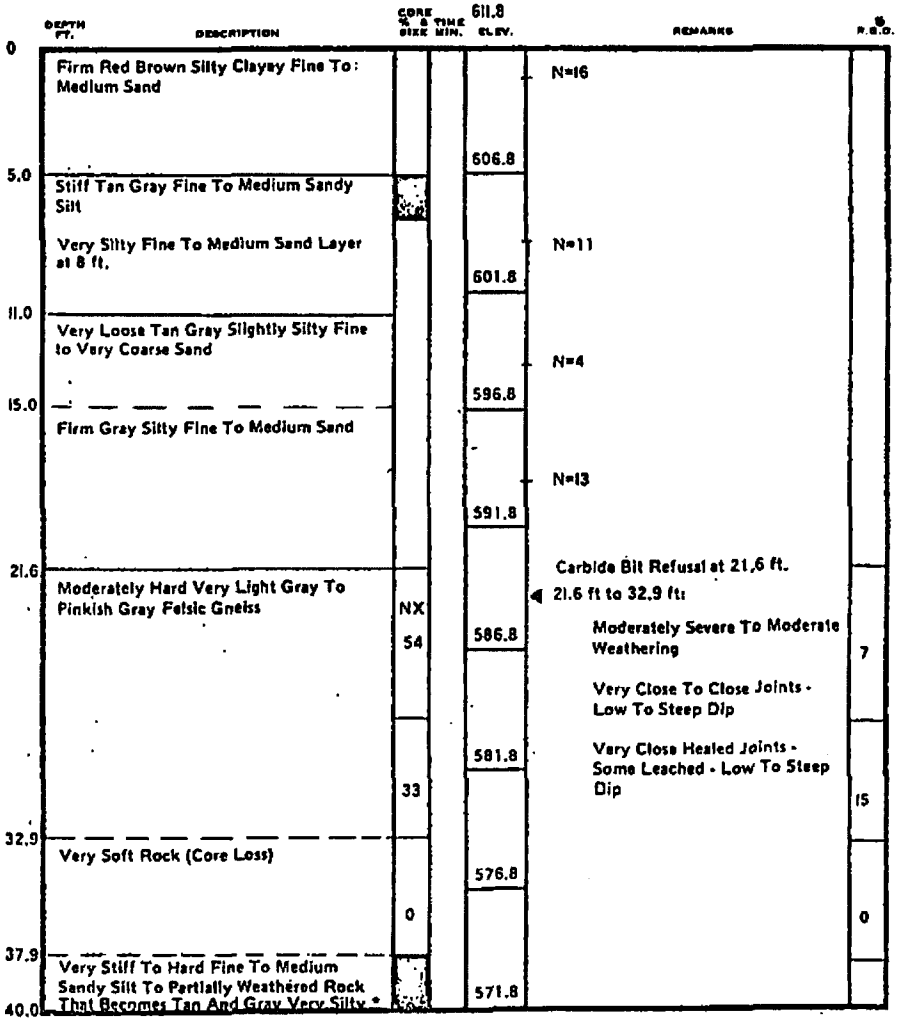
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-47
DATE DRILLED 7-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

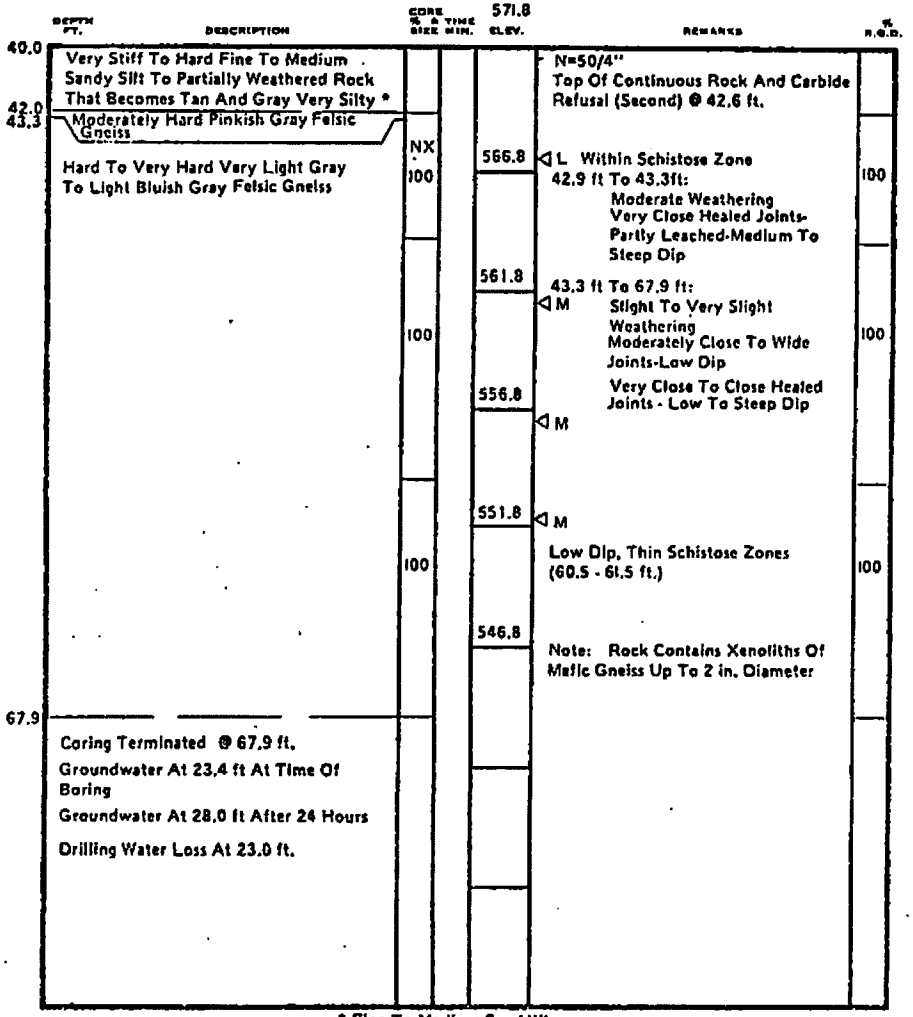
ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

* Fine To Medium Sand When Sampled

TEST BORING RECORD

BORING NO. B-48
DATE DRILLED 7-23-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[30] % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

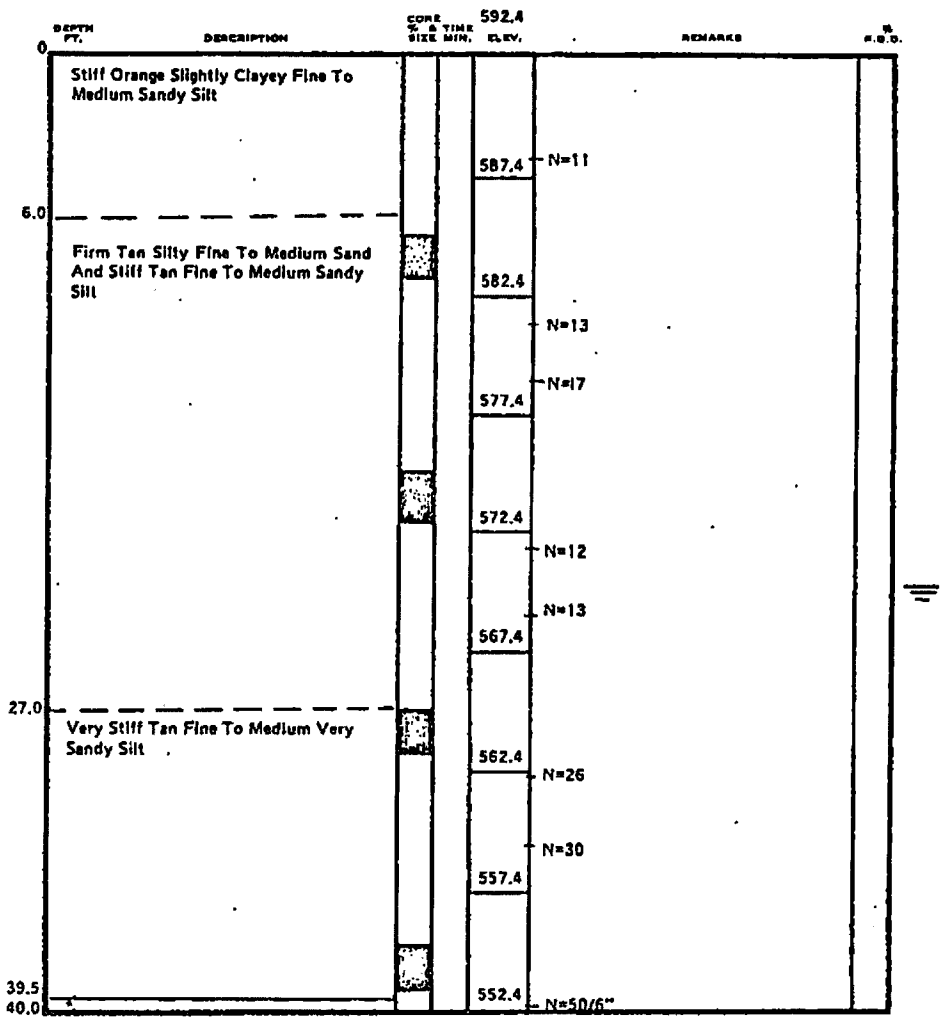
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

* Fine To Medium Sand When Sampled

TEST BORING RECORD

BORING NO. B-48
DATE DRILLED 7-23-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[30] % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

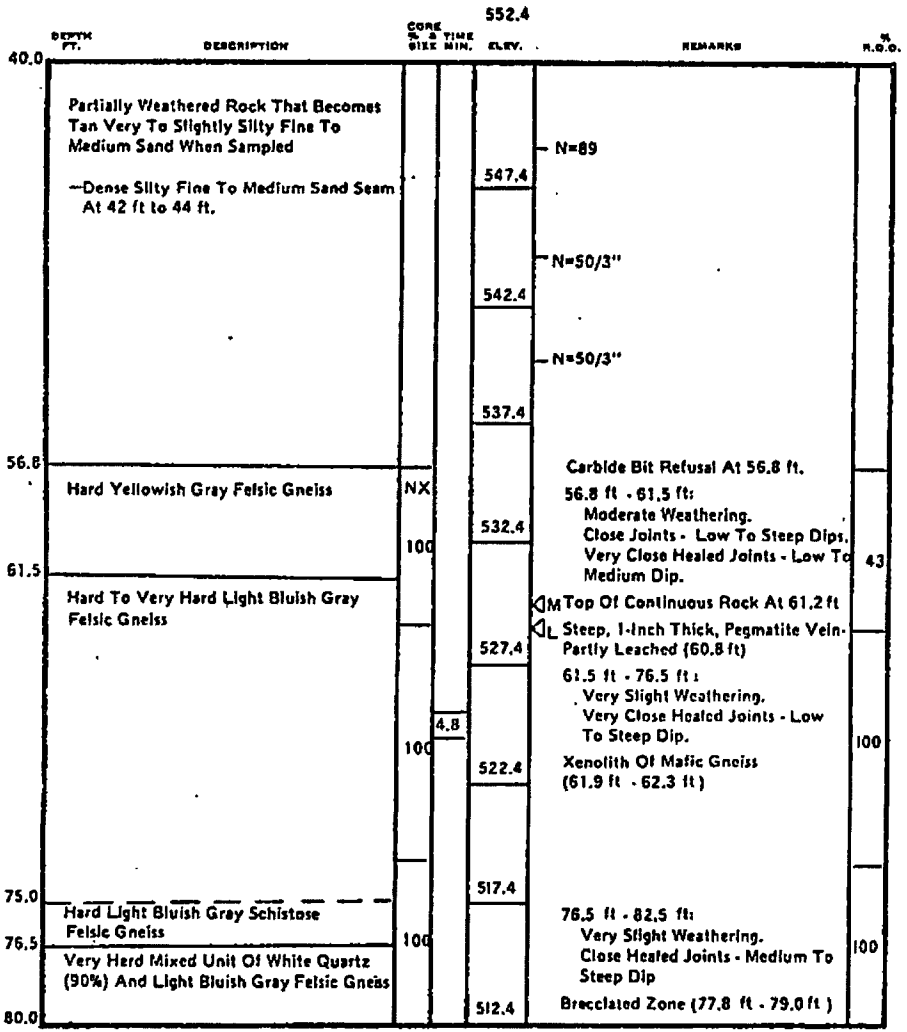
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

* Partially Weathered Rock That Becomes Tan Very To Slightly Silty Fine To Medium Sand When Sampled

TEST BORING RECORD

BORING NO. B-49
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

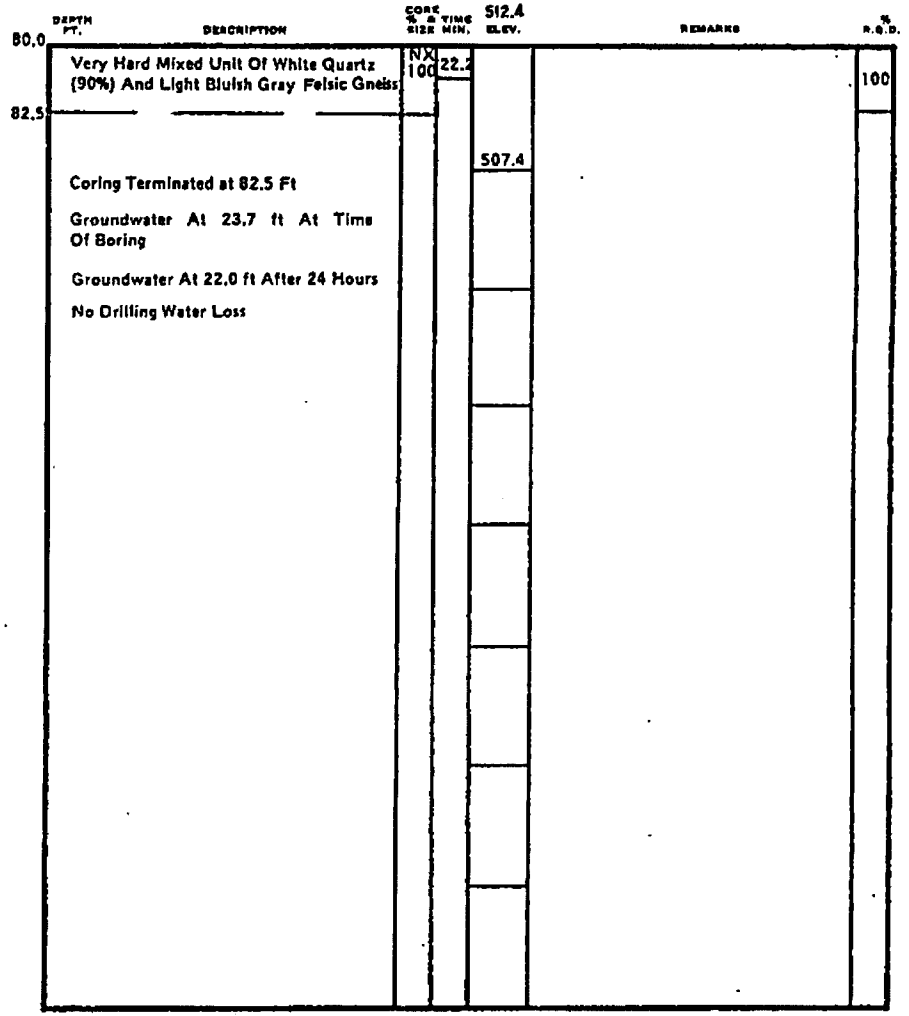
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-49
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

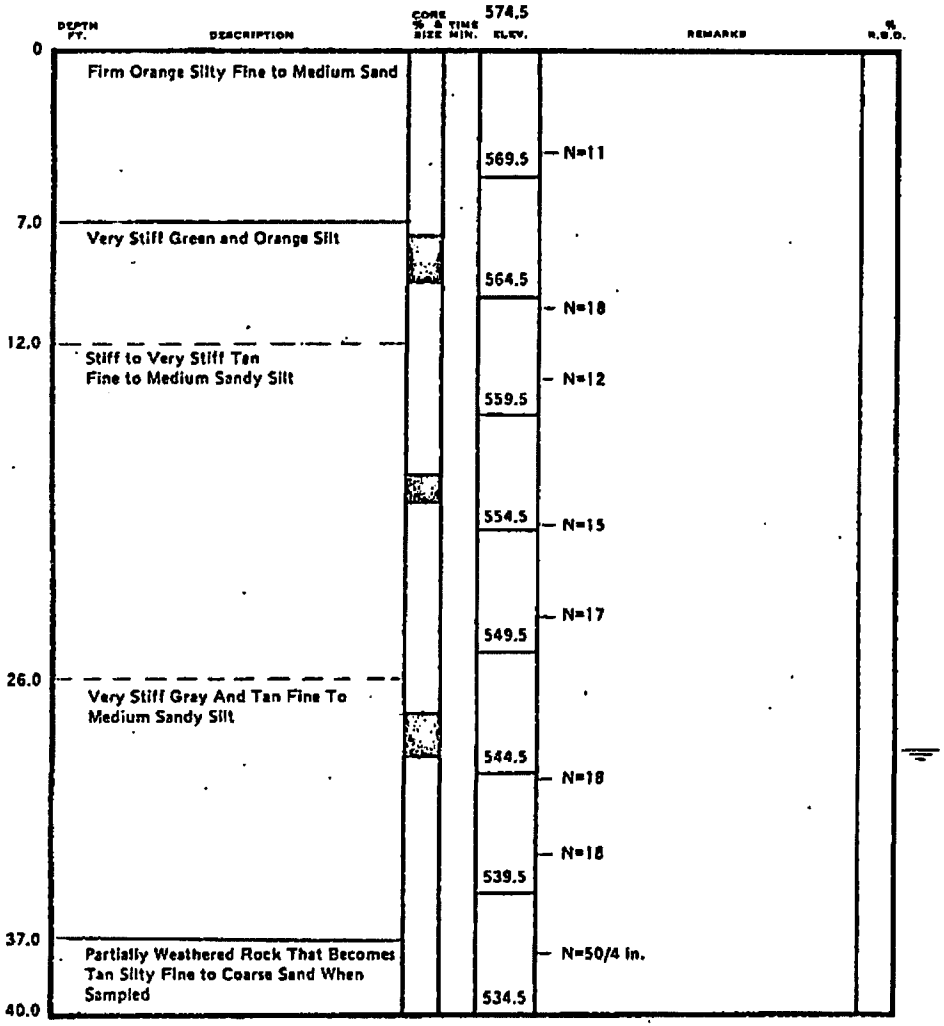
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-49
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

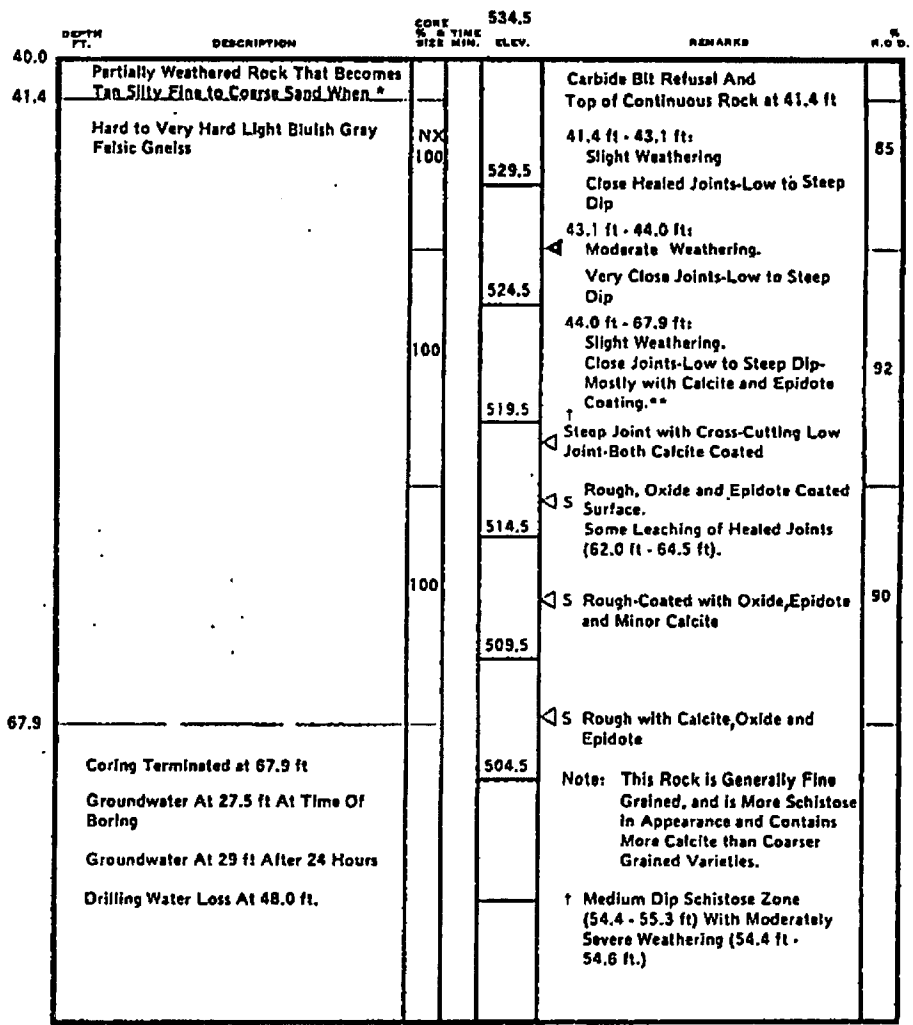


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0°–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-50
DATE DRILLED 7-25-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0°–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

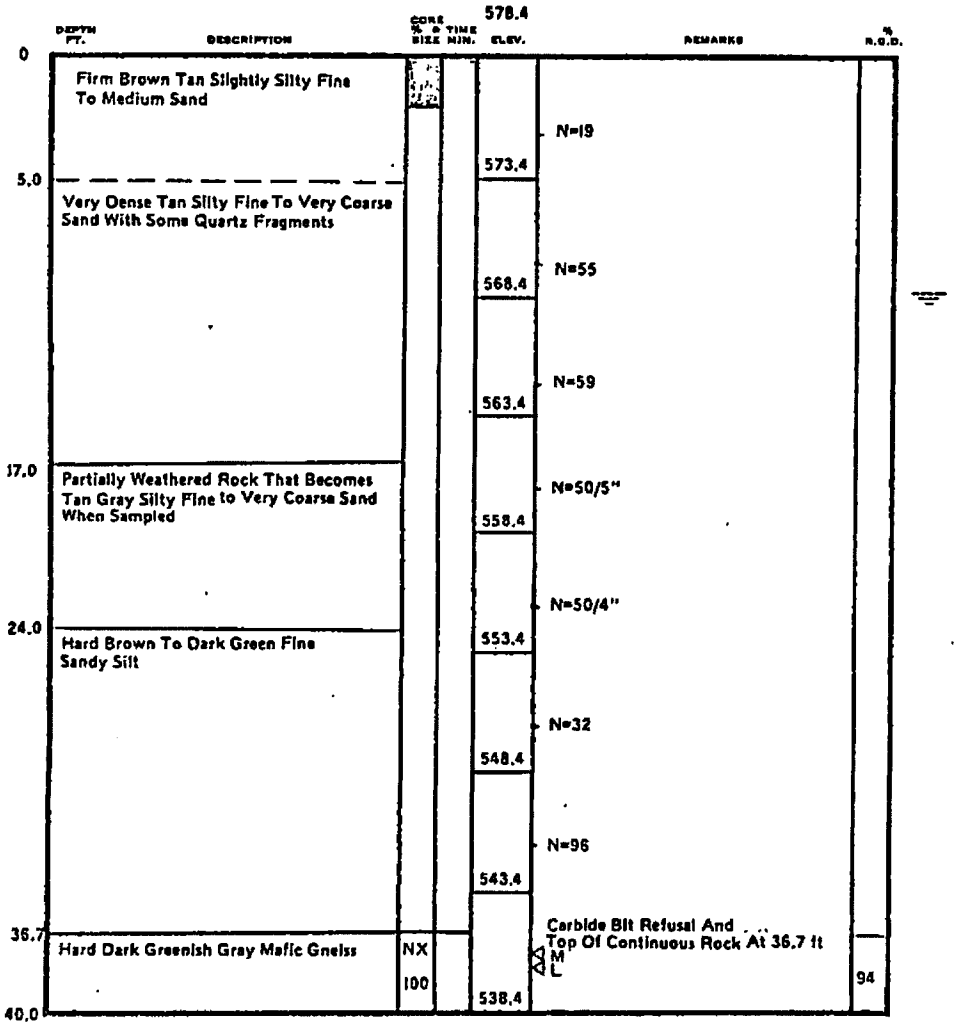
* Sampled

** Very Close Healed Joints-Low to Steep Dip (Some Leached).

TEST BORING RECORD

BORING NO. B-50
DATE DRILLED 7-25-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

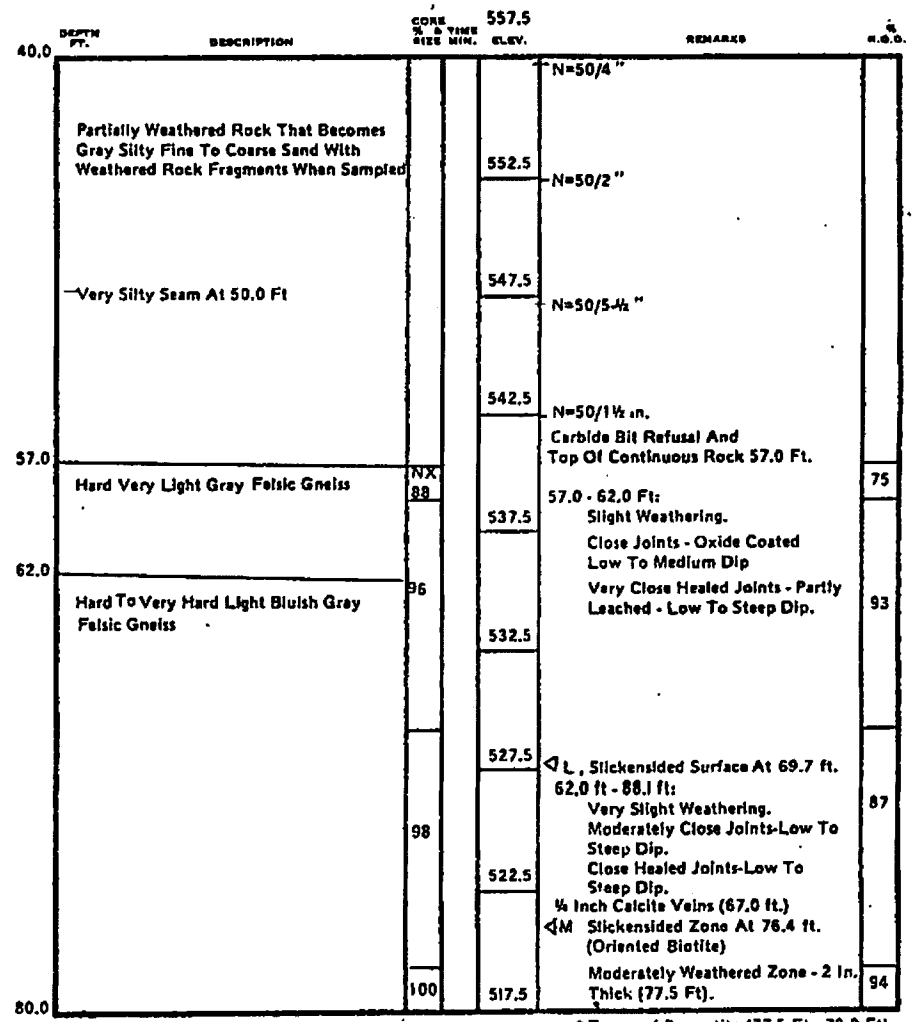
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-52
DATE DRILLED 7-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

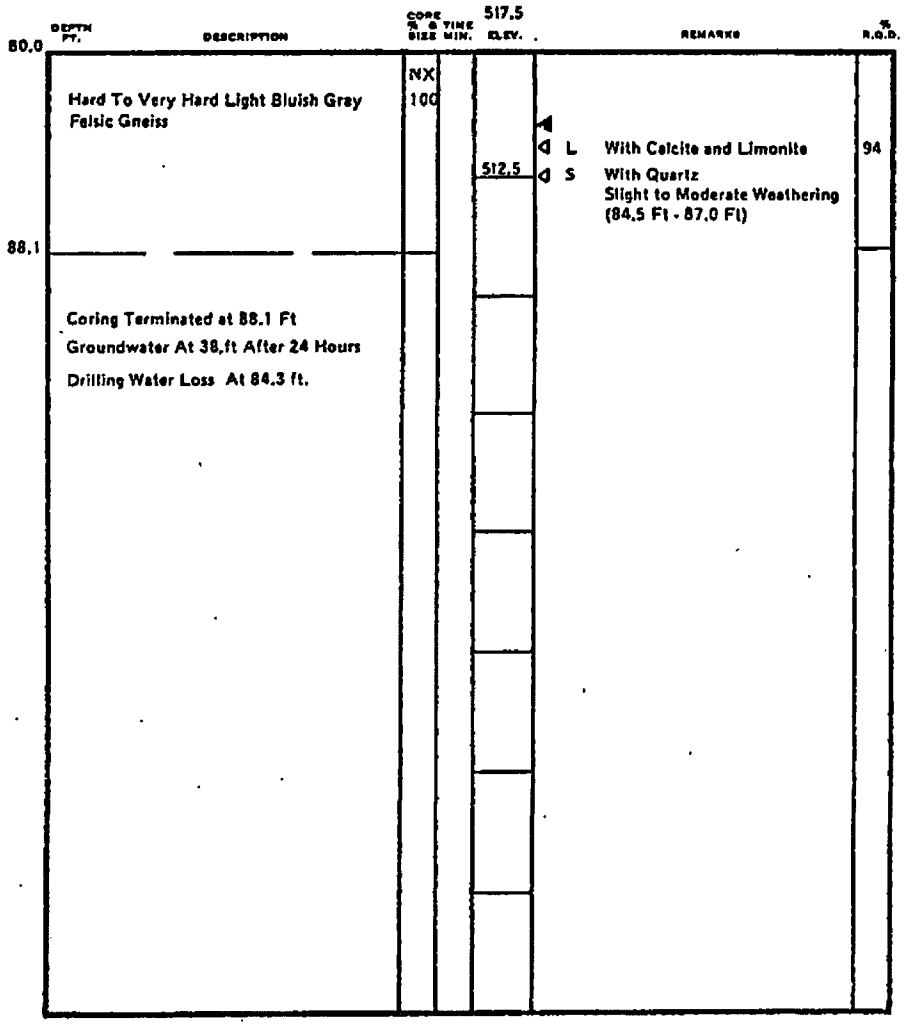
* Traces of Pegmatite (77.5 Ft - 78.2 Ft).

Page 2 of 3

TEST BORING RECORD

BORING NO. B-51
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



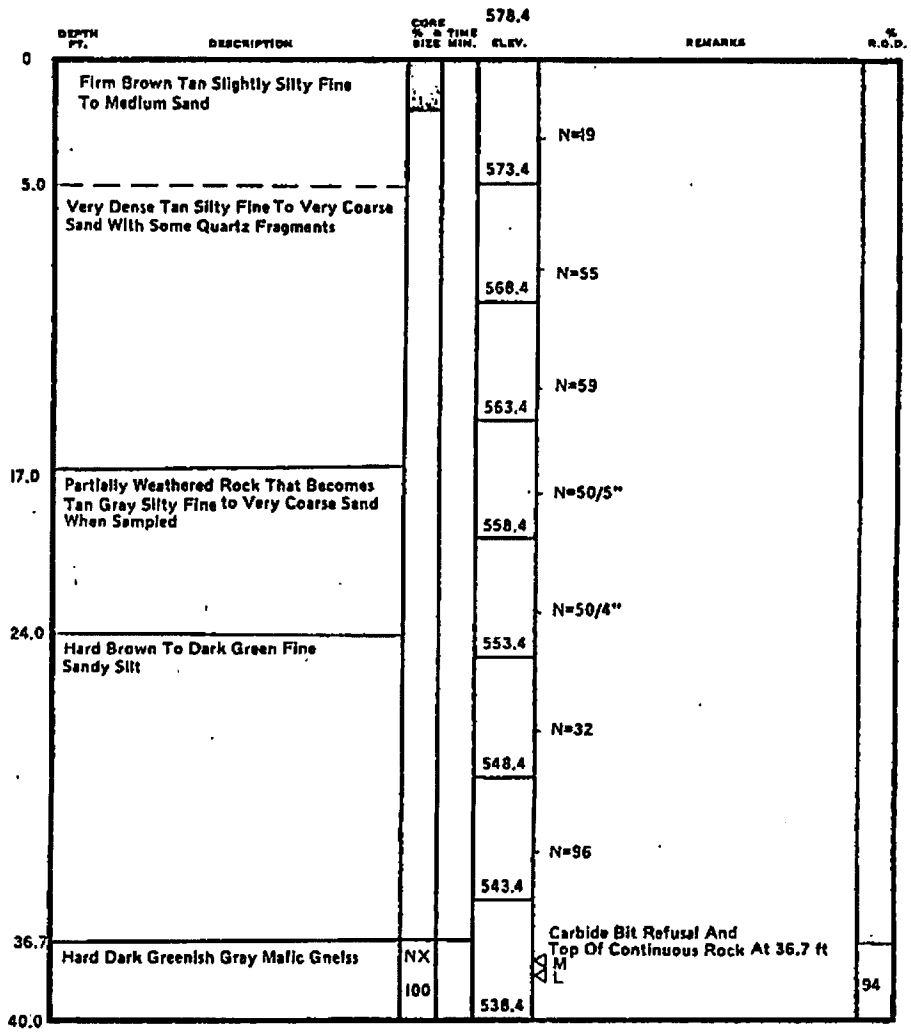
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-51
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



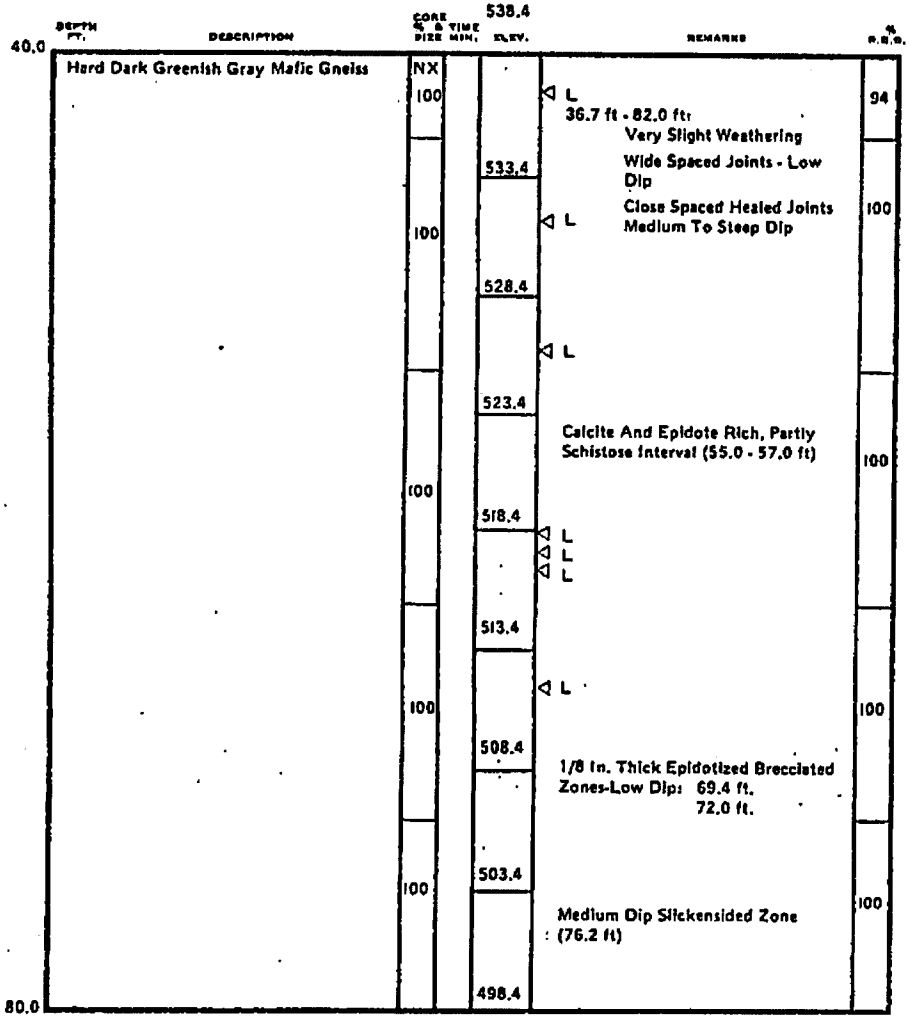
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-52
DATE DRILLED 7-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

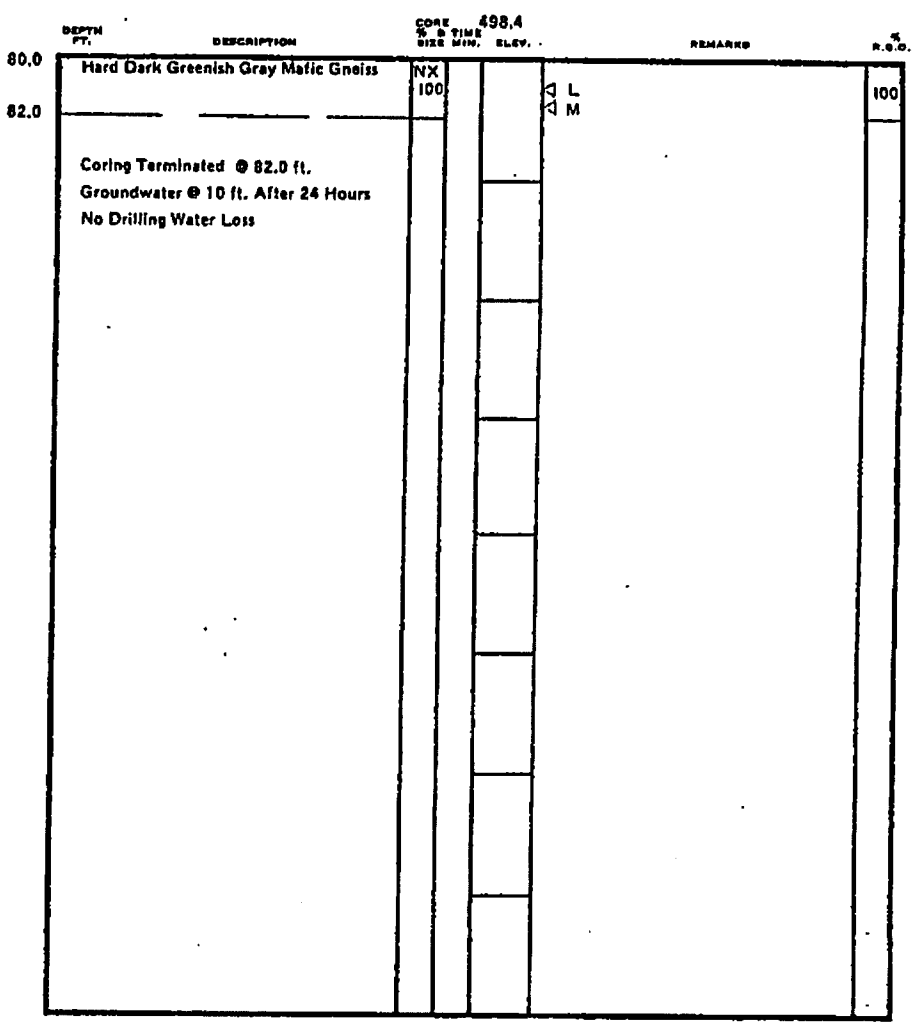
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-52
DATE DRILLED 7-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

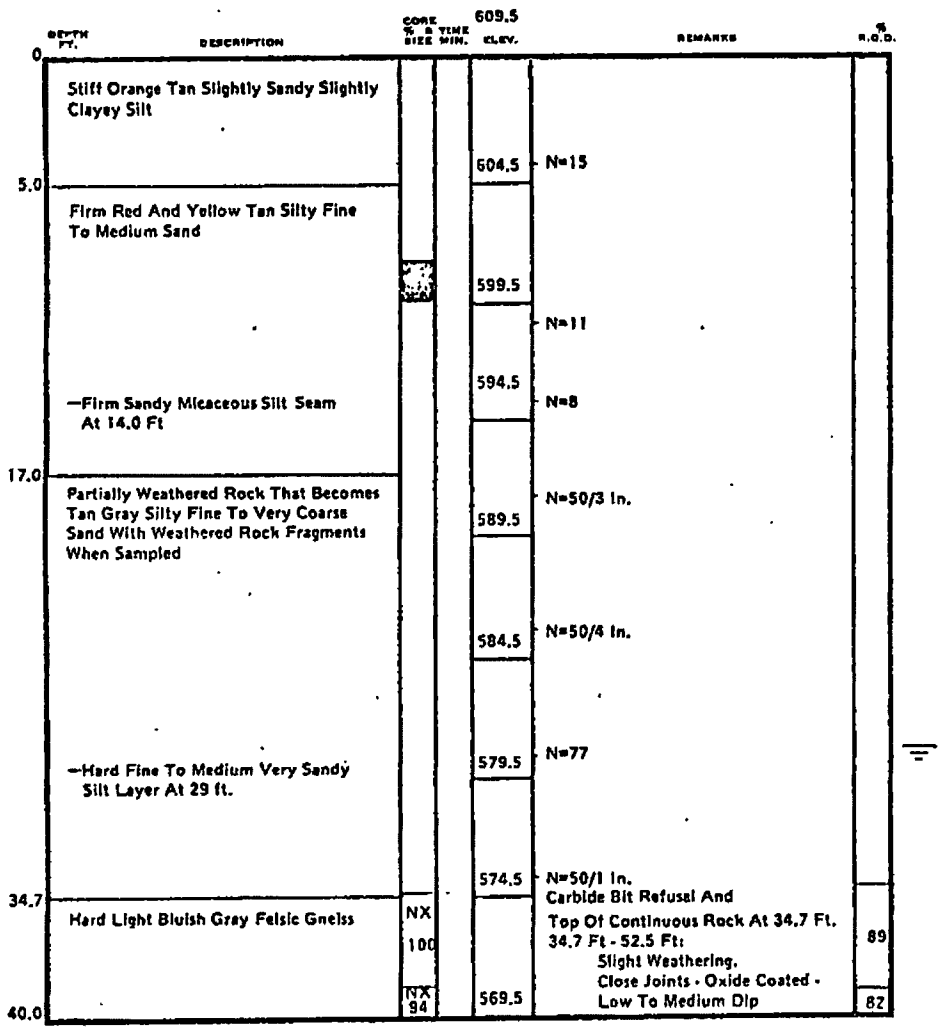
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-52
DATE DRILLED 7-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[55]/5 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

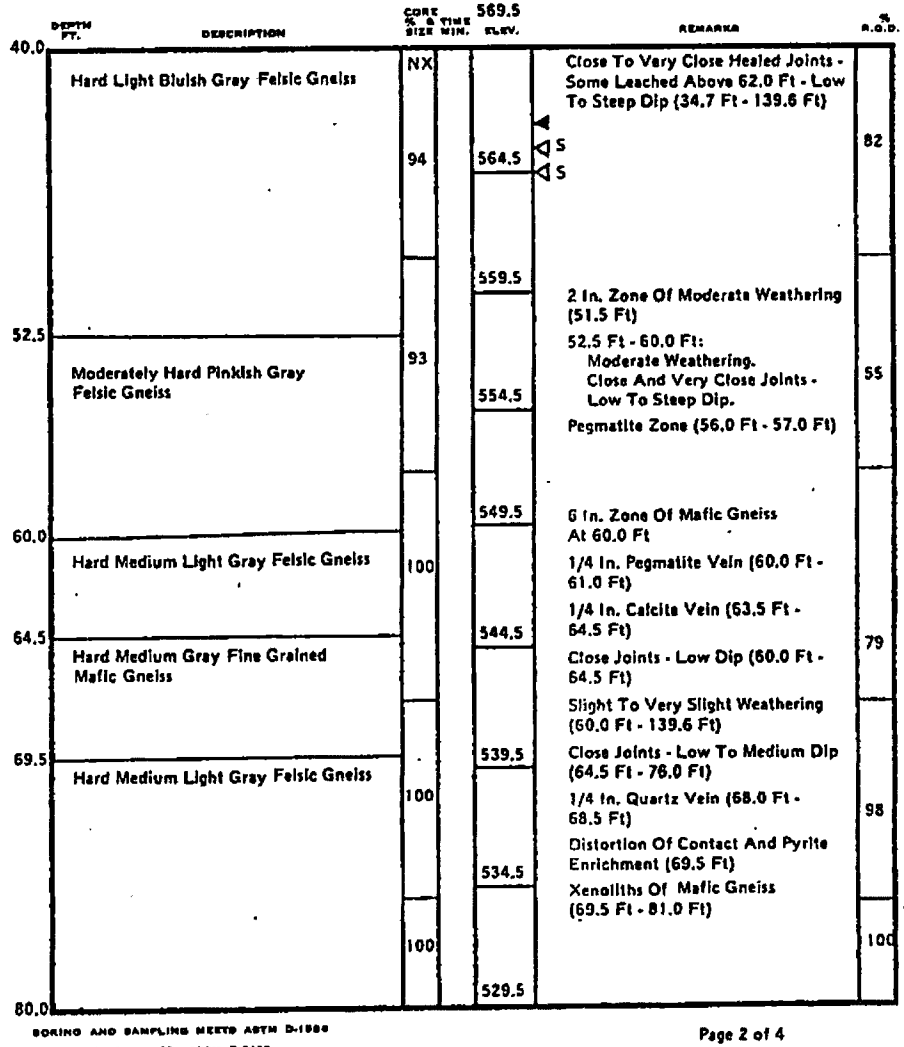
◁ ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-53
DATE DRILLED 8-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[55]/5 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

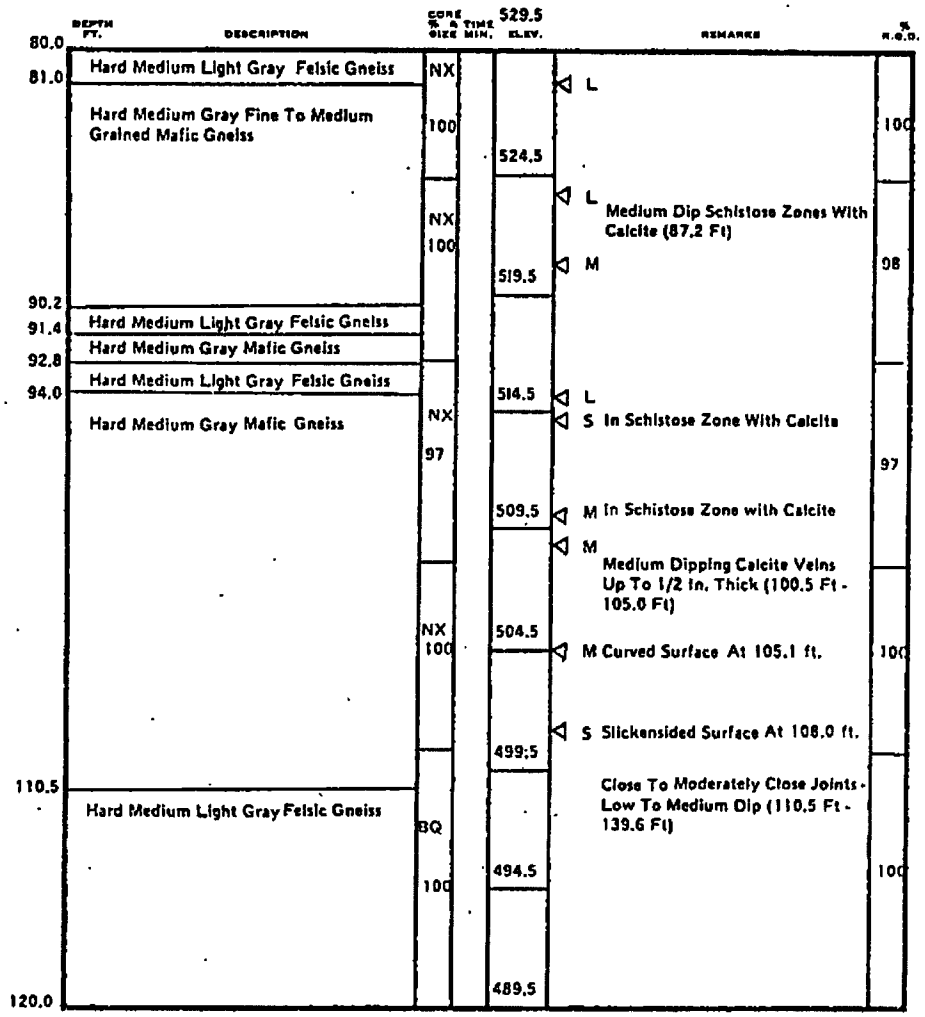
◁ ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-53
DATE DRILLED 8-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 3 of 4

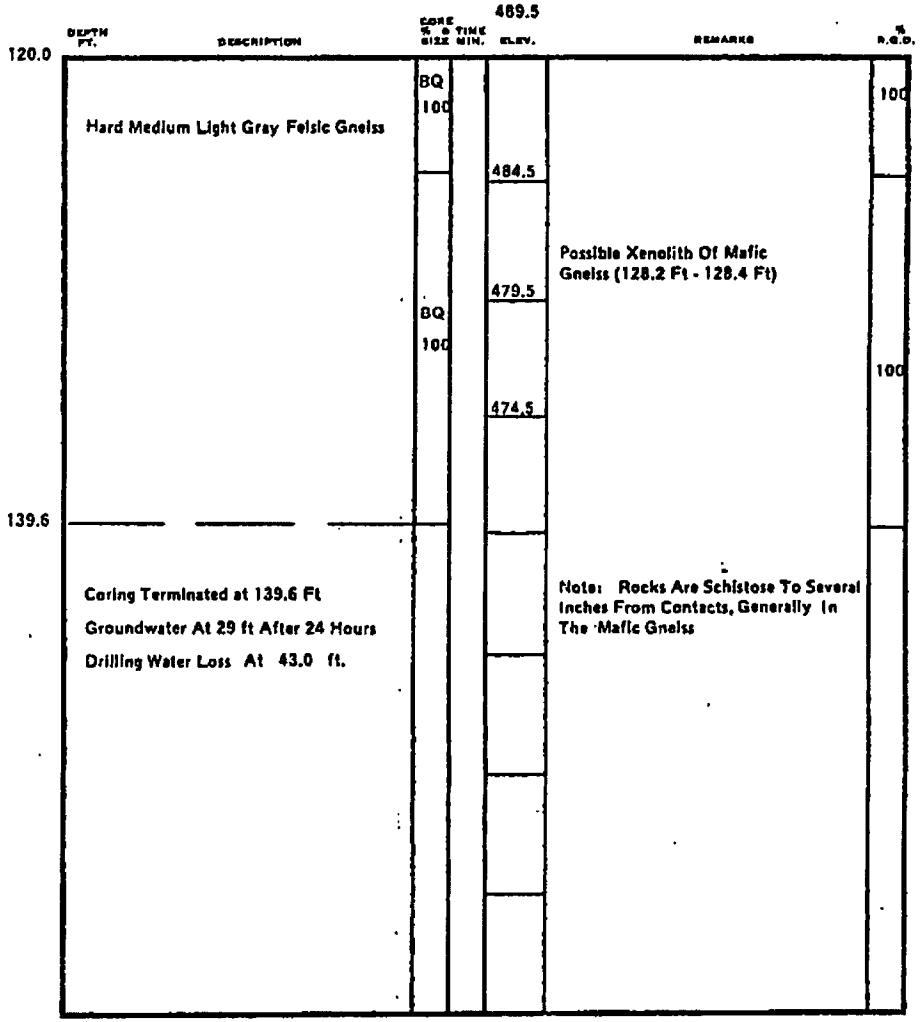
TEST BORING RECORD

BORING NO. B-53

DATE DRILLED 8-1-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 4 of 4

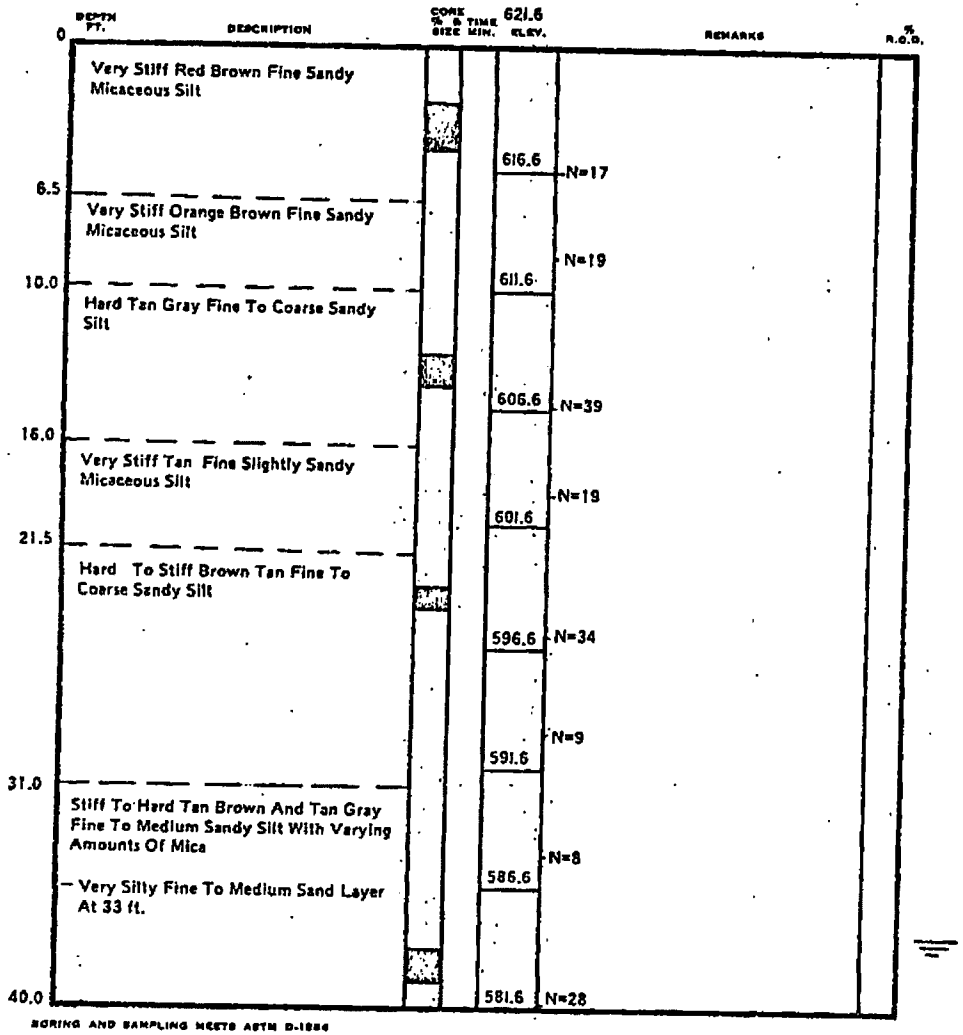
TEST BORING RECORD

BORING NO. B-53

DATE DRILLED 8-1-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

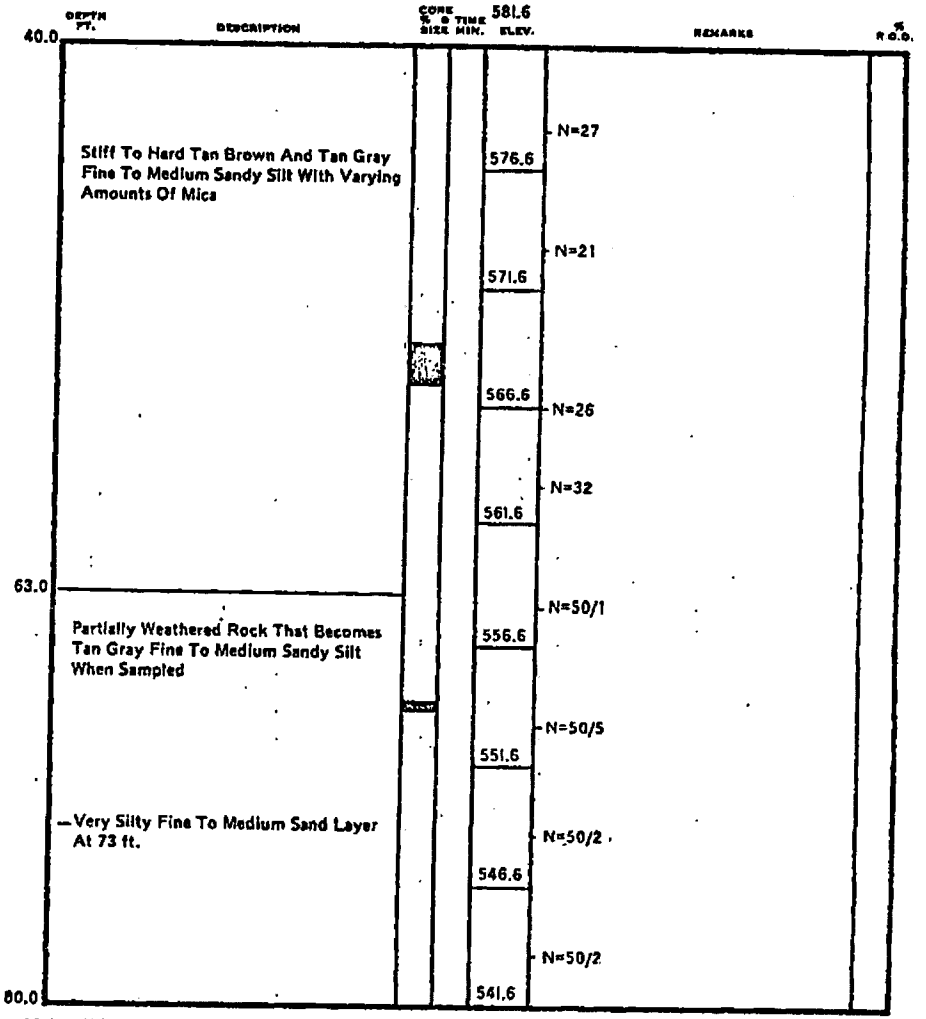
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-80°
S = STEEP DIP 80°-90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-54
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

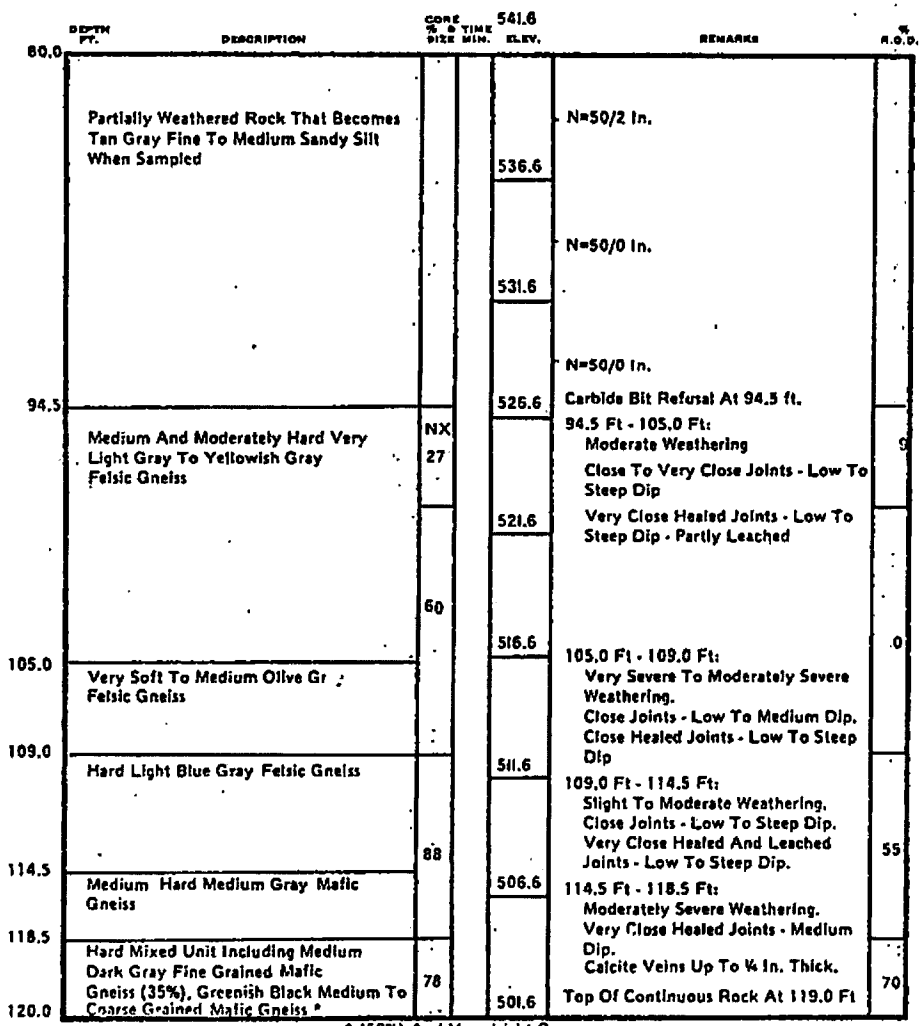
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-80°
S = STEEP DIP 80°-90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-54
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



* (60%) And Very Light Gray Felsic Gneiss

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

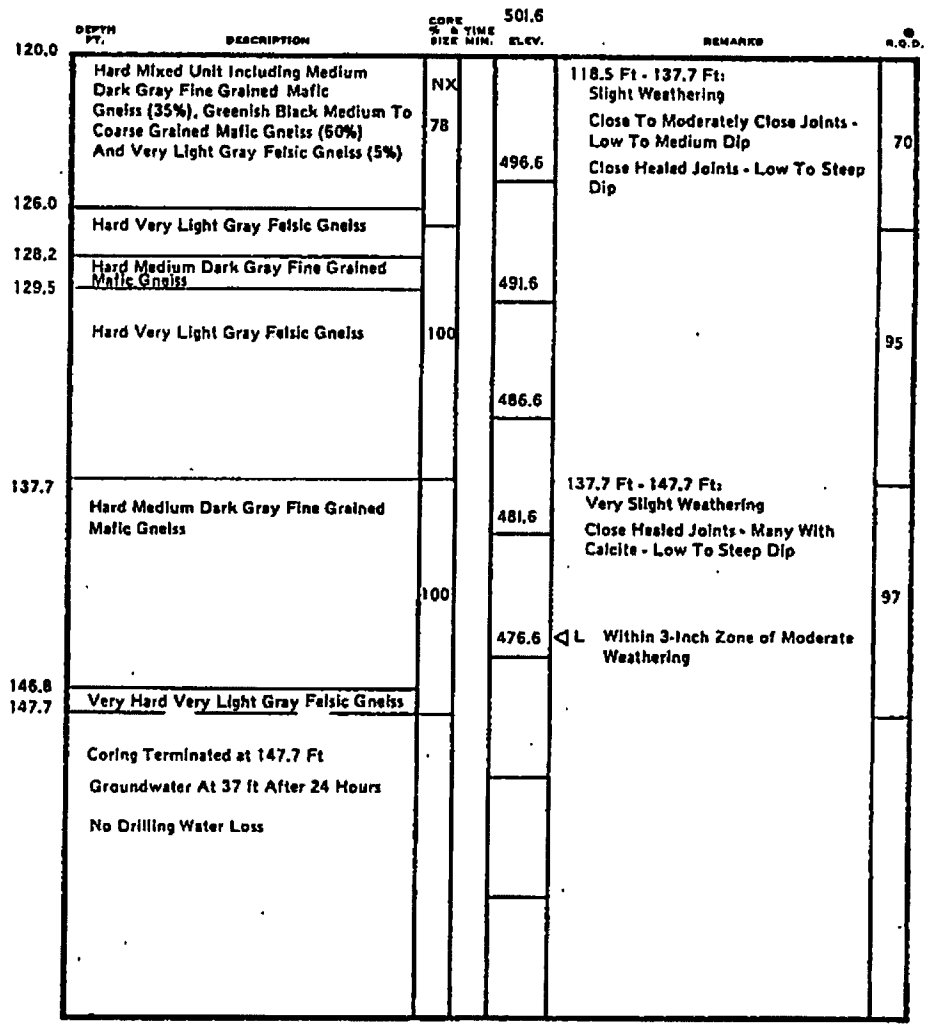
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-54
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

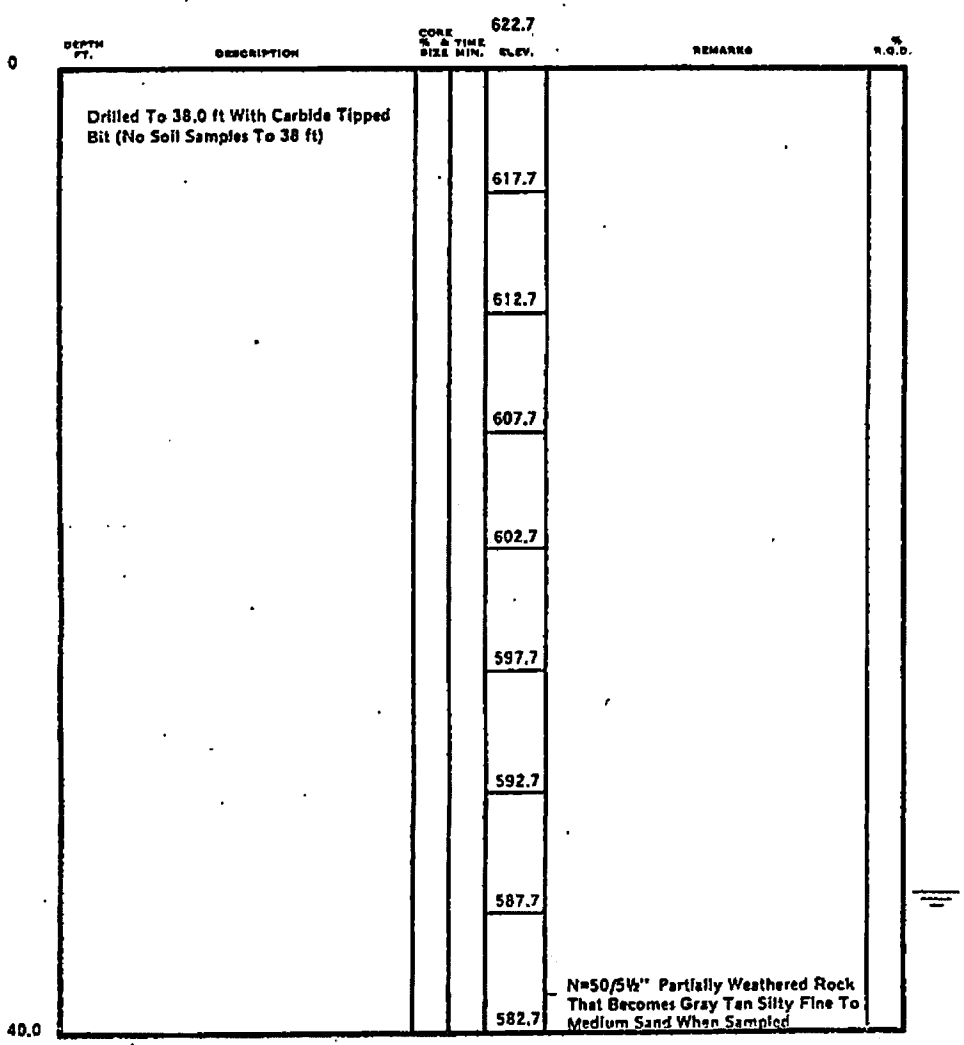
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-54
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

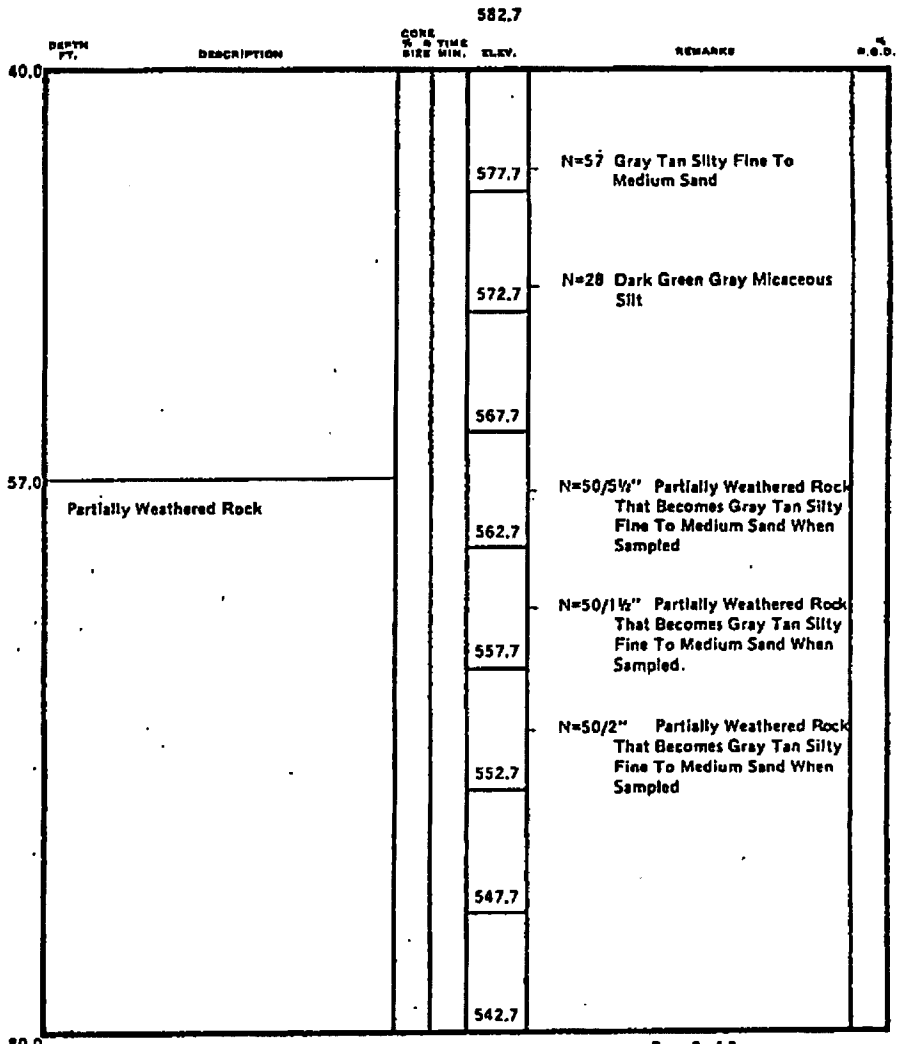
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-55P
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

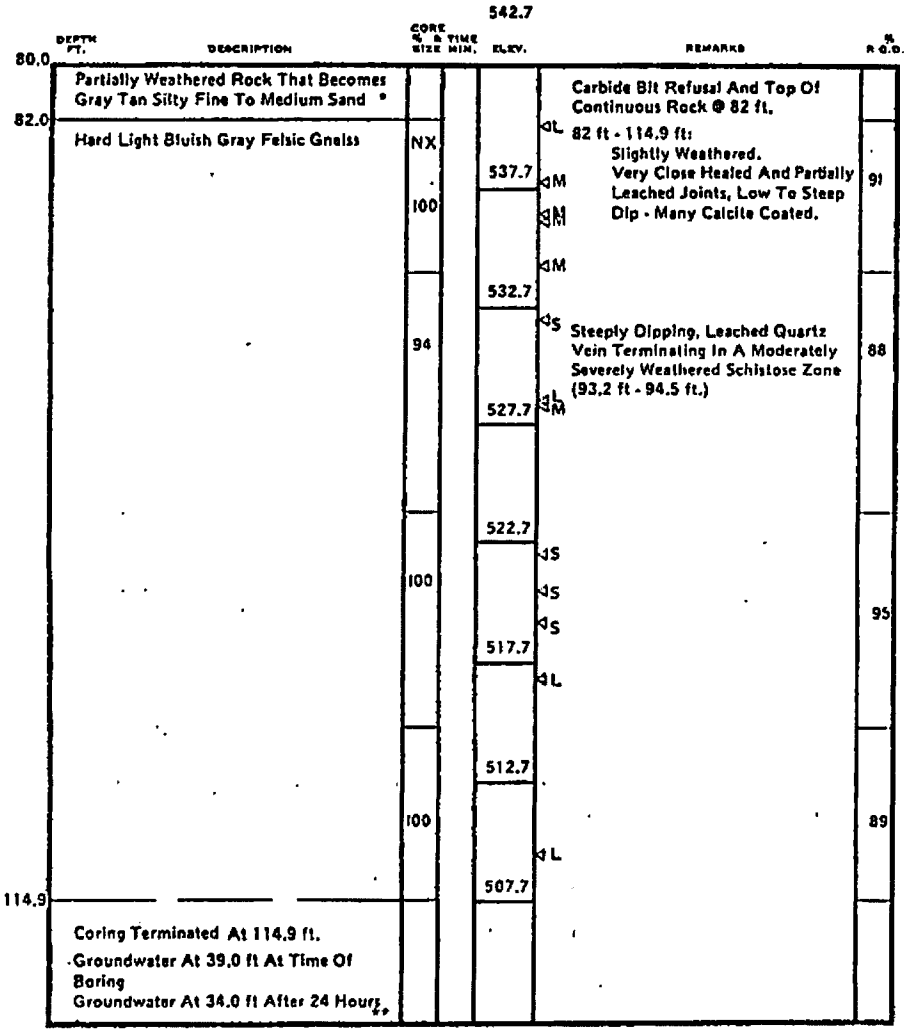
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-55 P
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

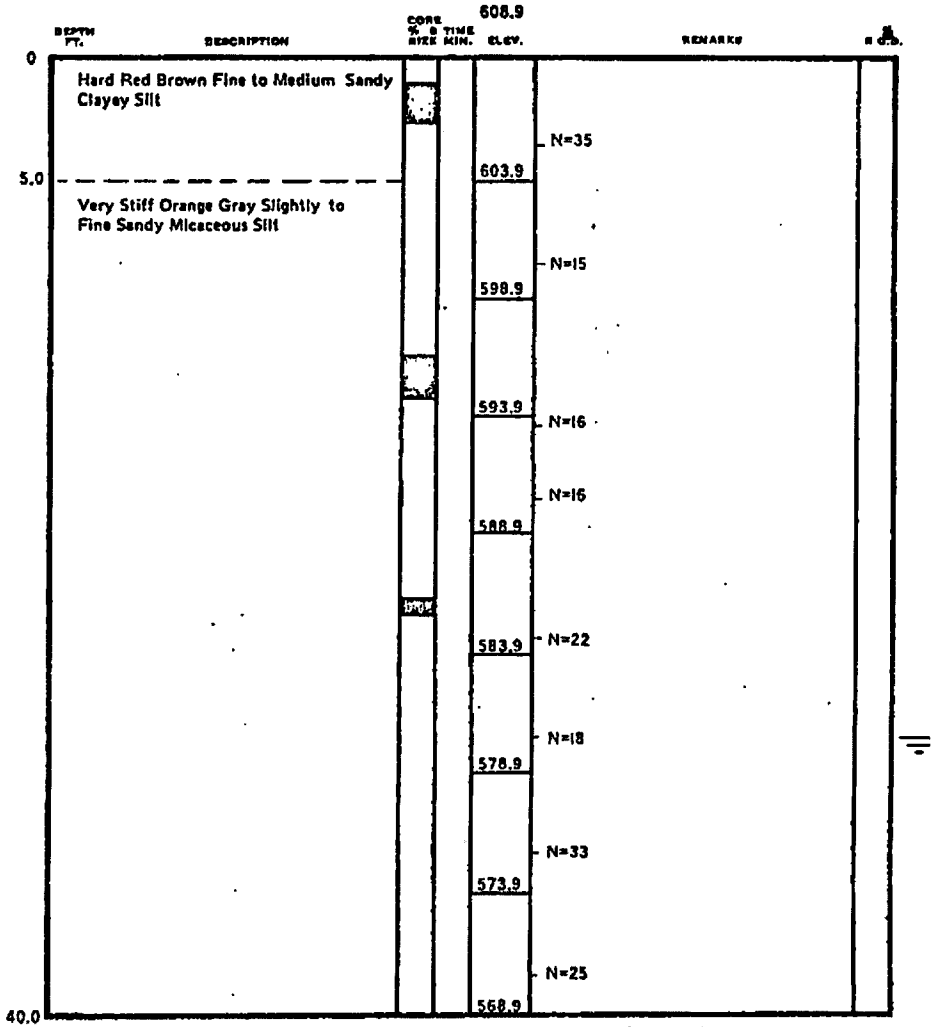
* When Sampled
** No Drilling Water Loss

Page 3 of 3

TEST BORING RECORD

BORING NO. B-55 P
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

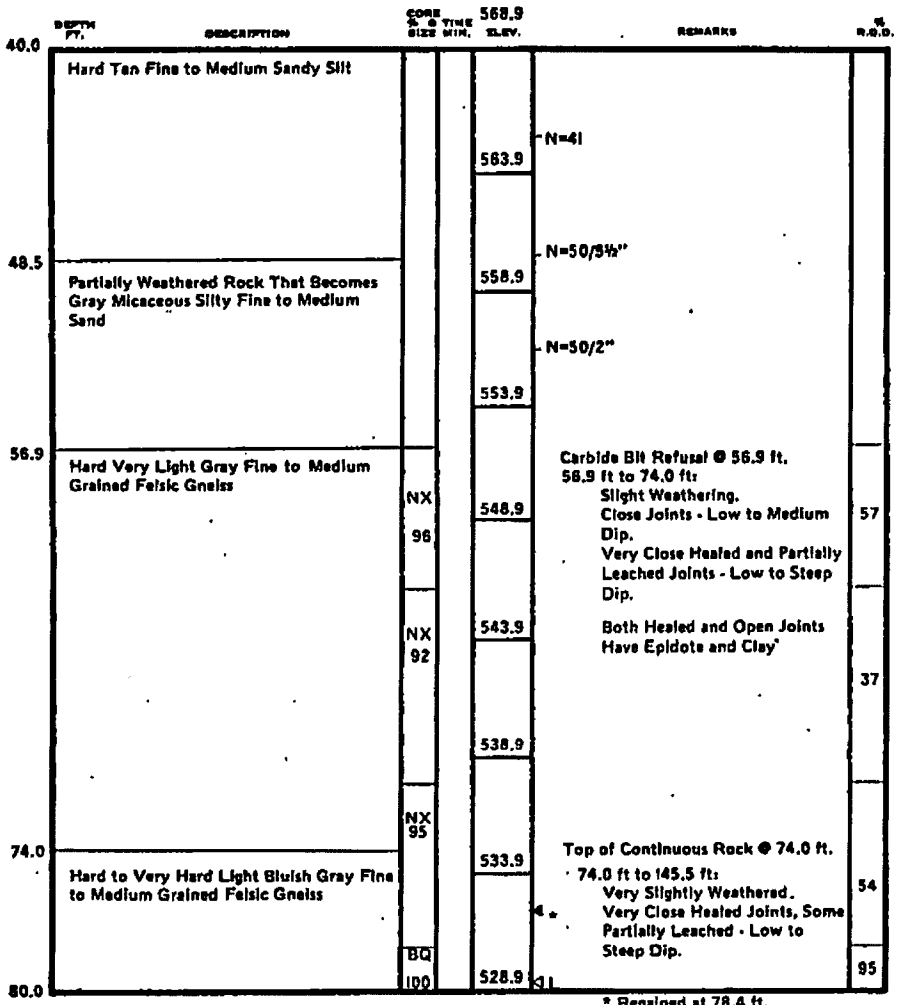
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-56
DATE DRILLED 8-16-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



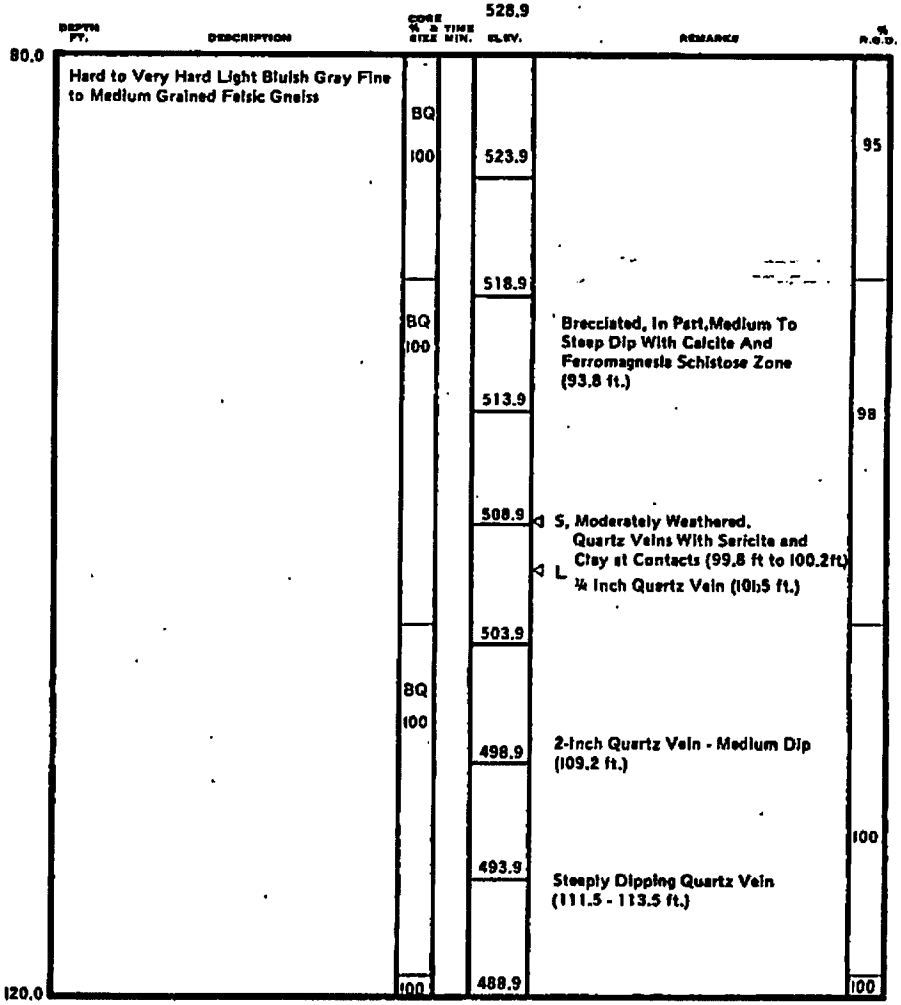
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:
% ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–20°
N - STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 20°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-56
DATE DRILLED 8-16-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



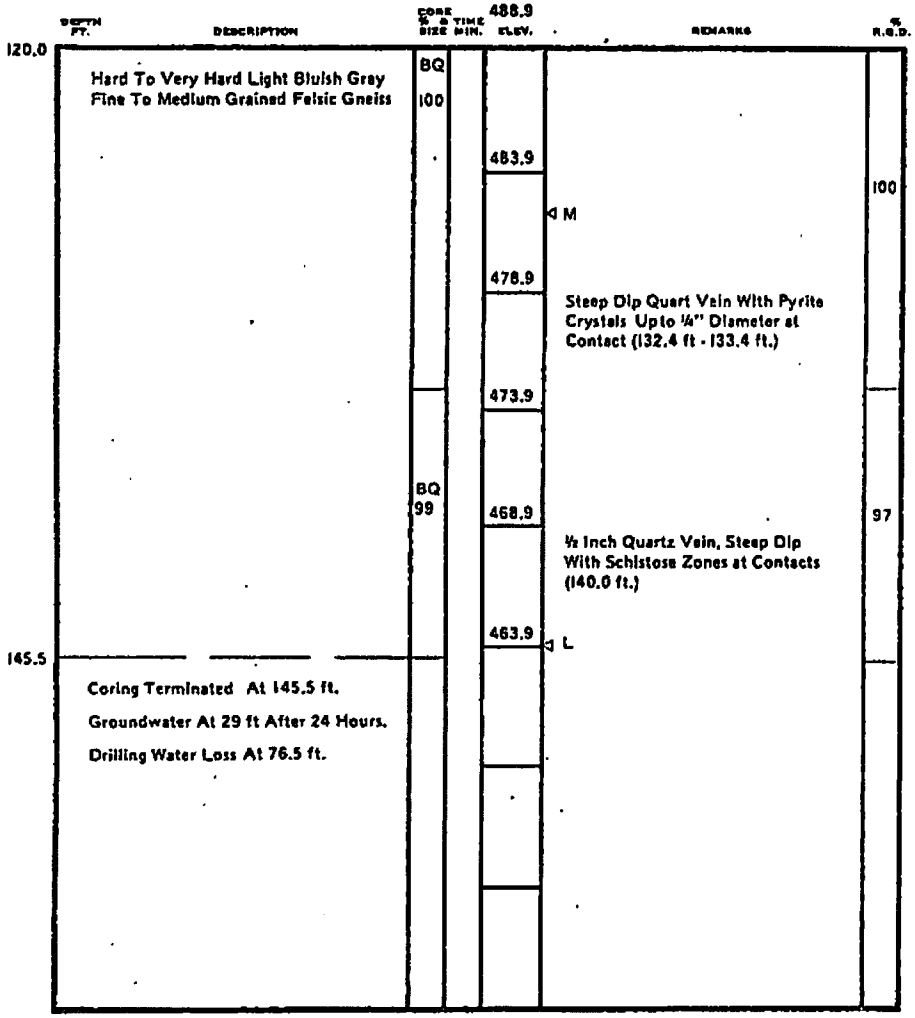
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:
% ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–20°
N - STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 20°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-56
DATE DRILLED 8-16-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

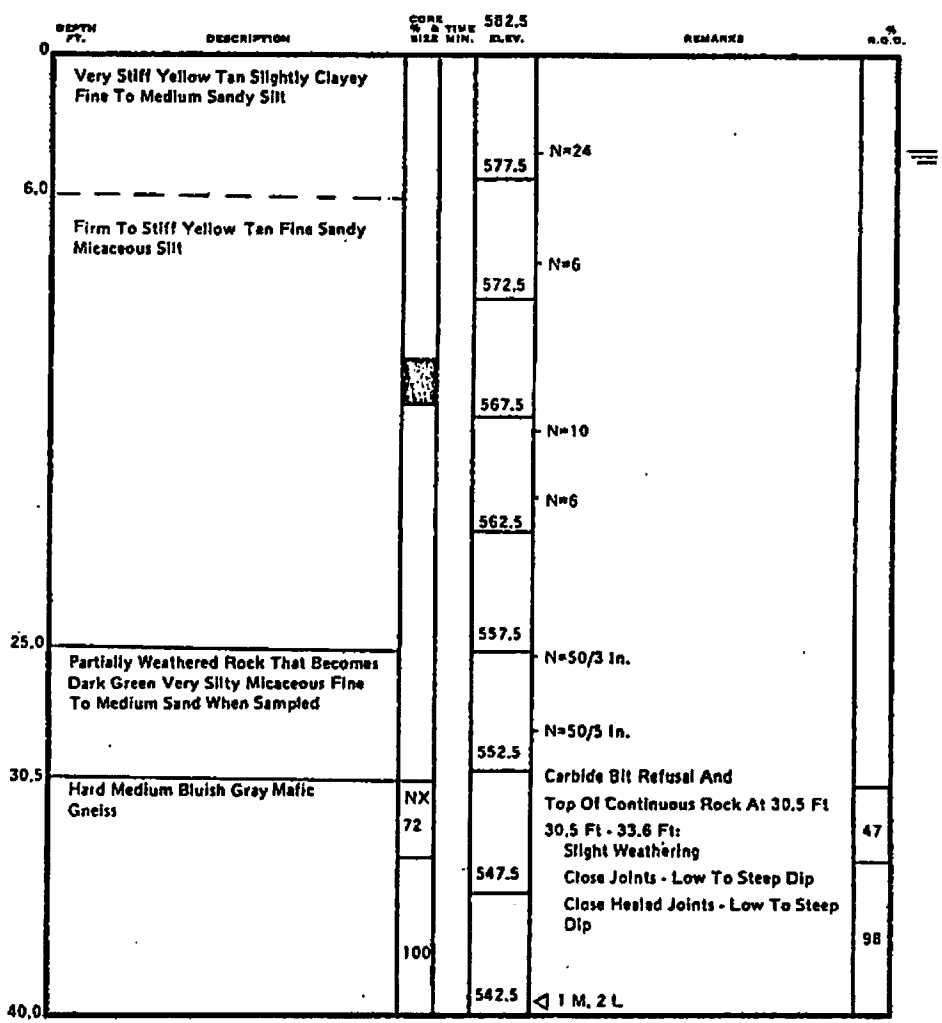
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-56
DATE DRILLED 8-16-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

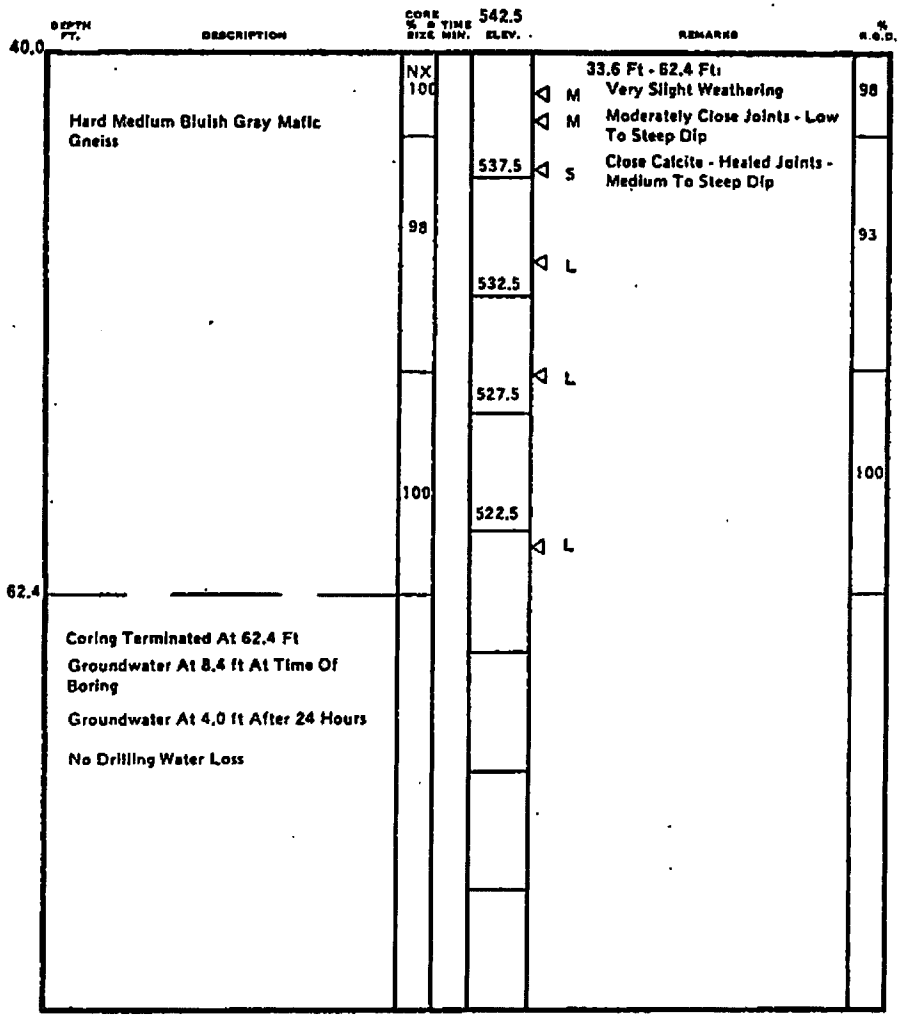
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-57
DATE DRILLED 8-6-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

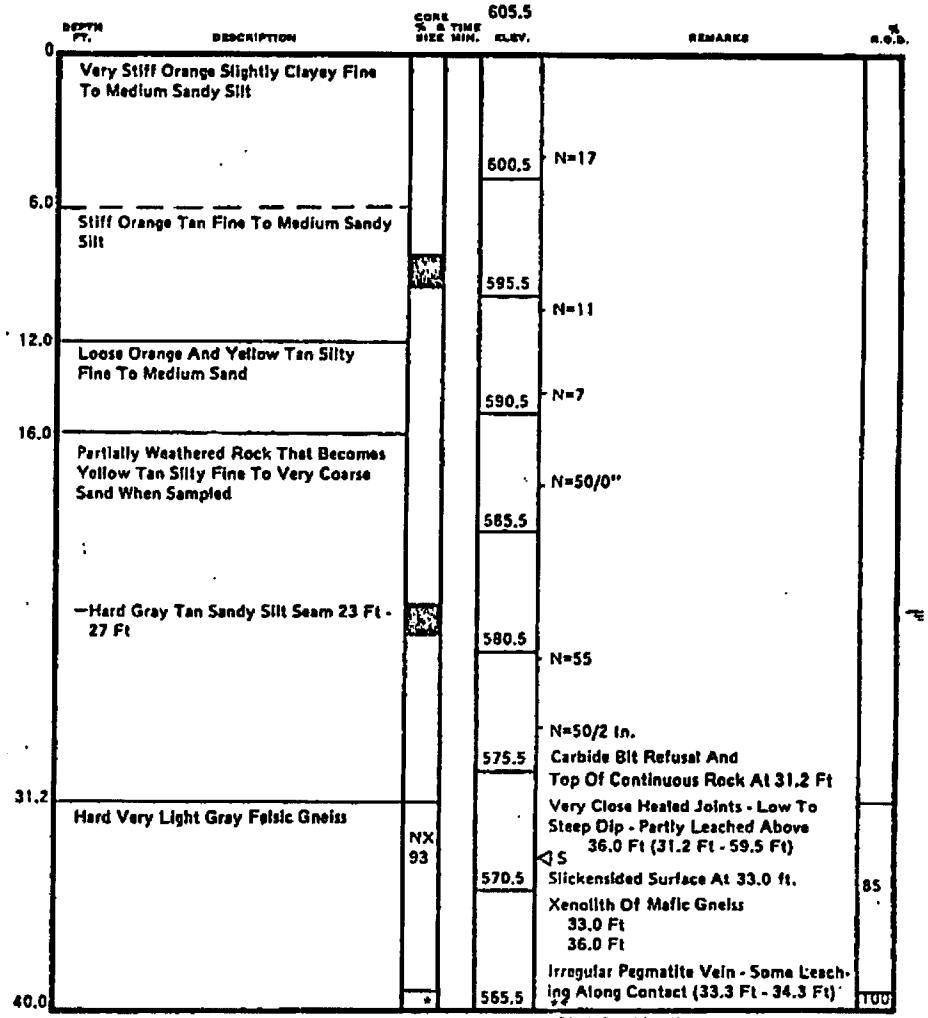
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-57
DATE DRILLED 8-6-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

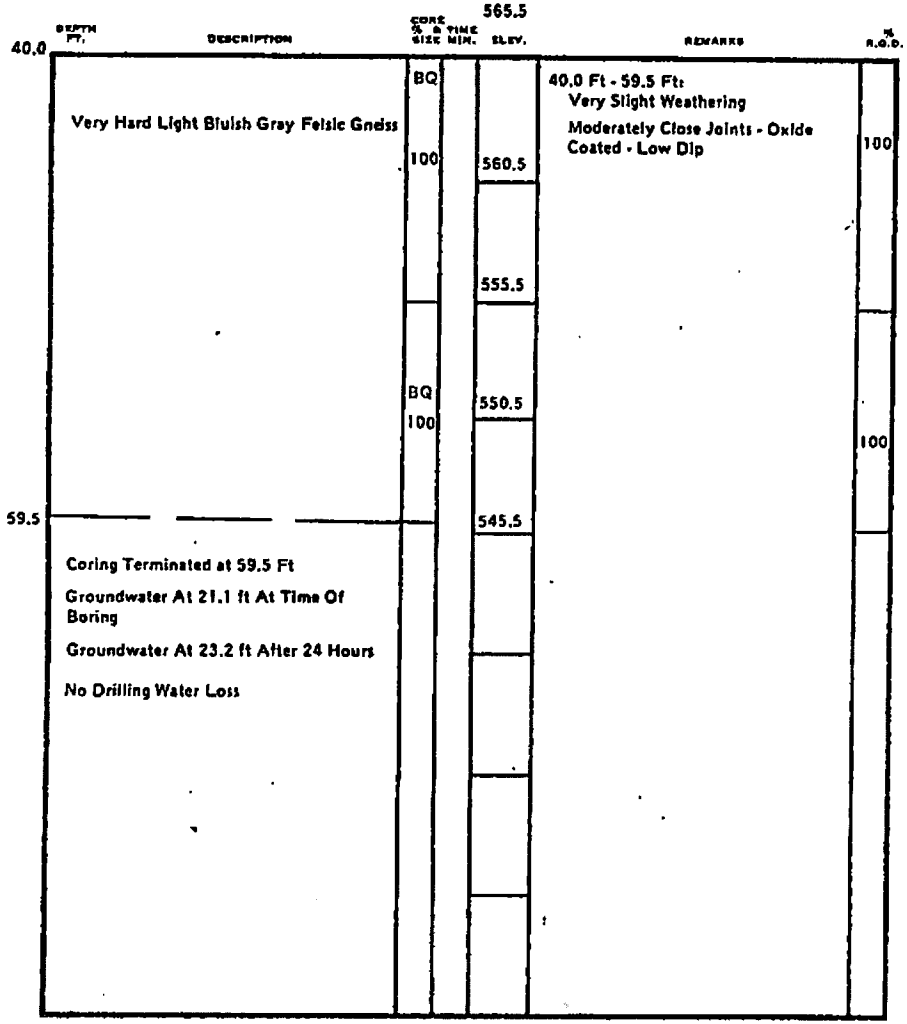
*BQ 100

** 31.2 Ft - 40.0 Ft: Slight Weathering. Close Joints-Low To Medium Dip

TEST BORING RECORD

BORING NO. B-58
DATE DRILLED 8-6-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



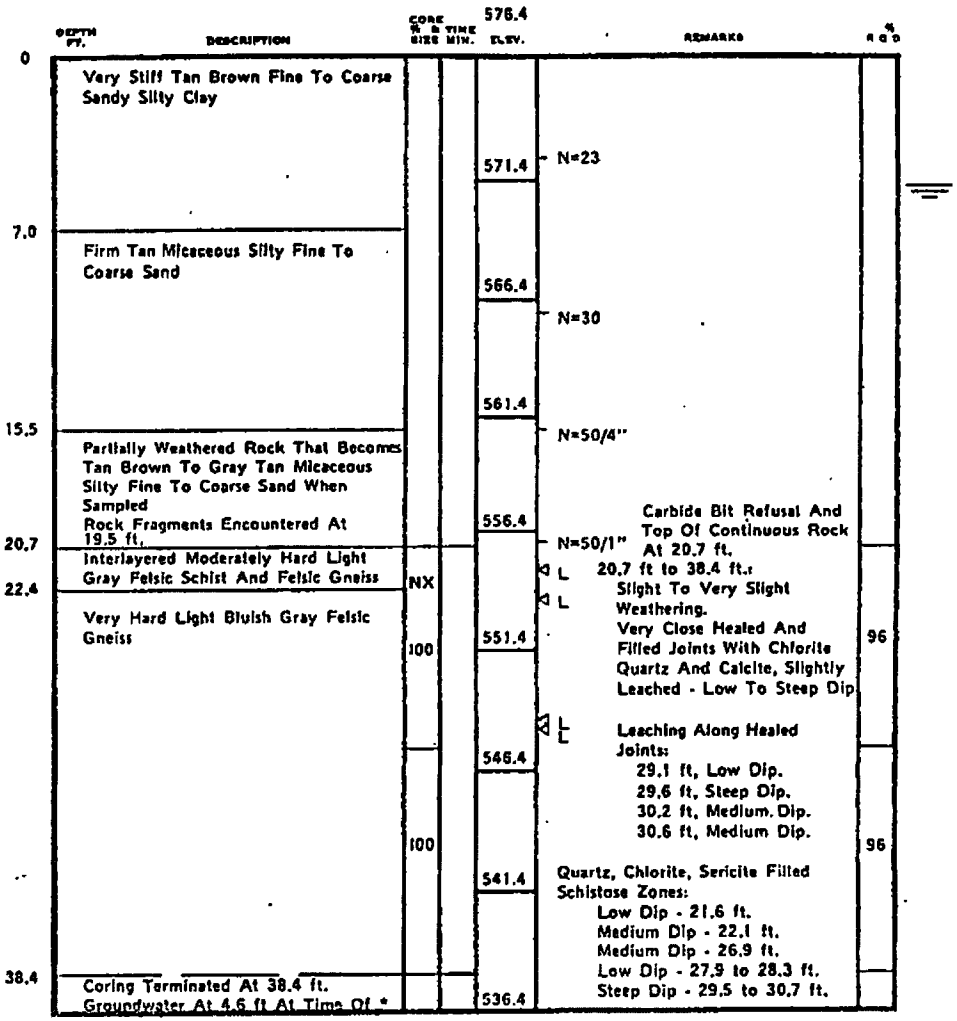
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-58
DATE DRILLED 8-6-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

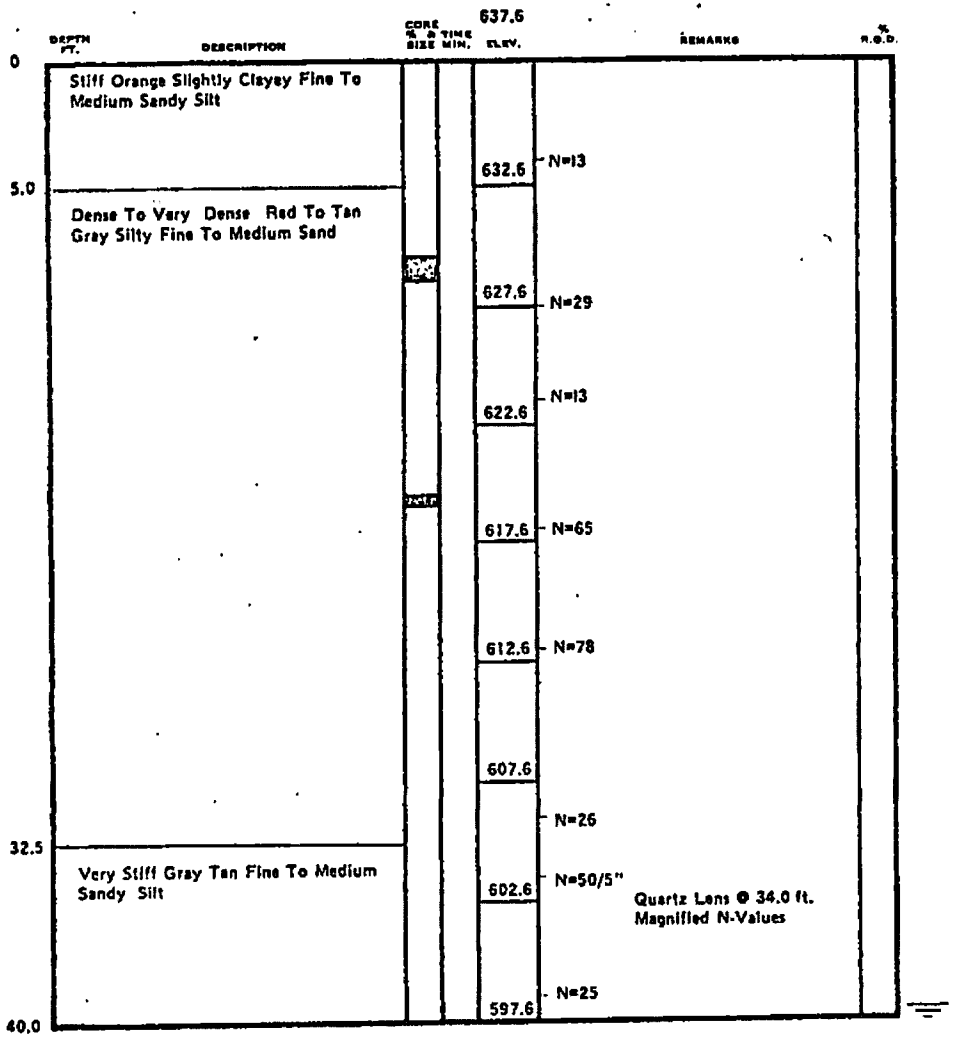
* Boring Stabilized Groundwater At 5.1 ft.
No Drilling Water Loss

Page 1 of 1

TEST BORING RECORD

BORING NO. B-59
DATE DRILLED 4-19-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

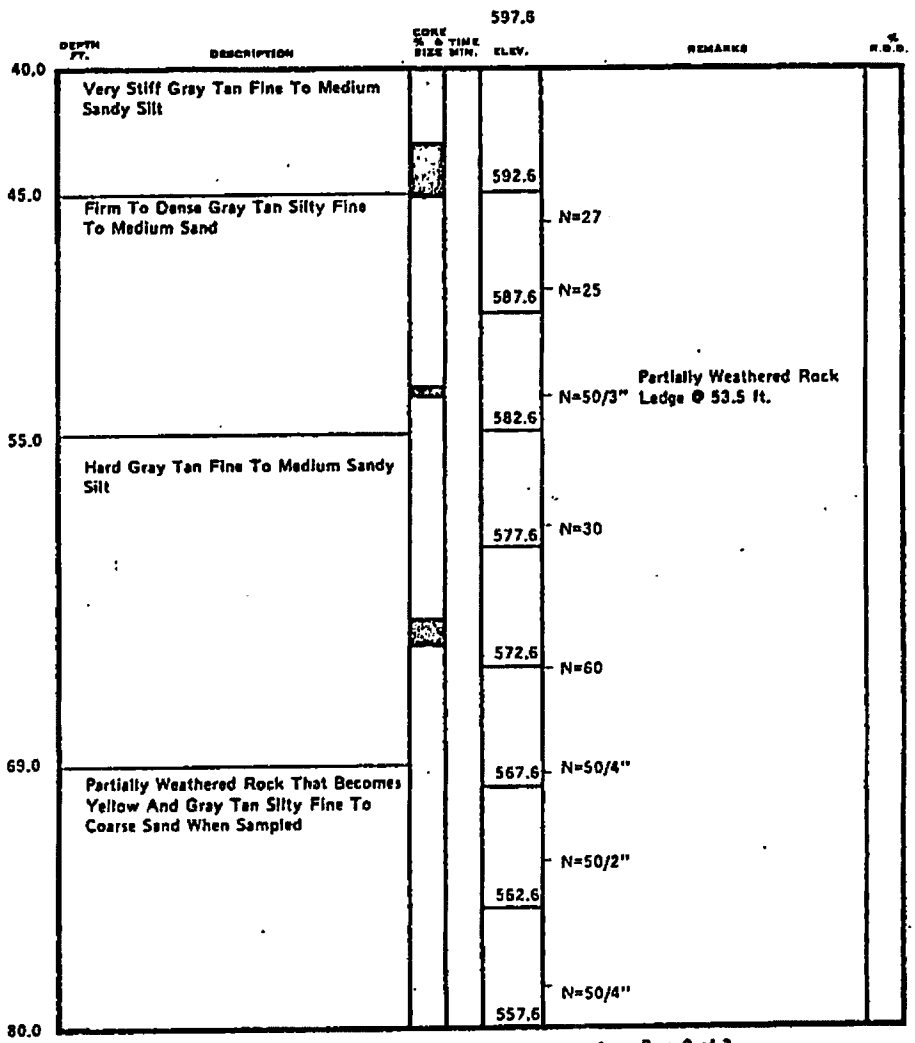
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
36 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-61
DATE DRILLED 9-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

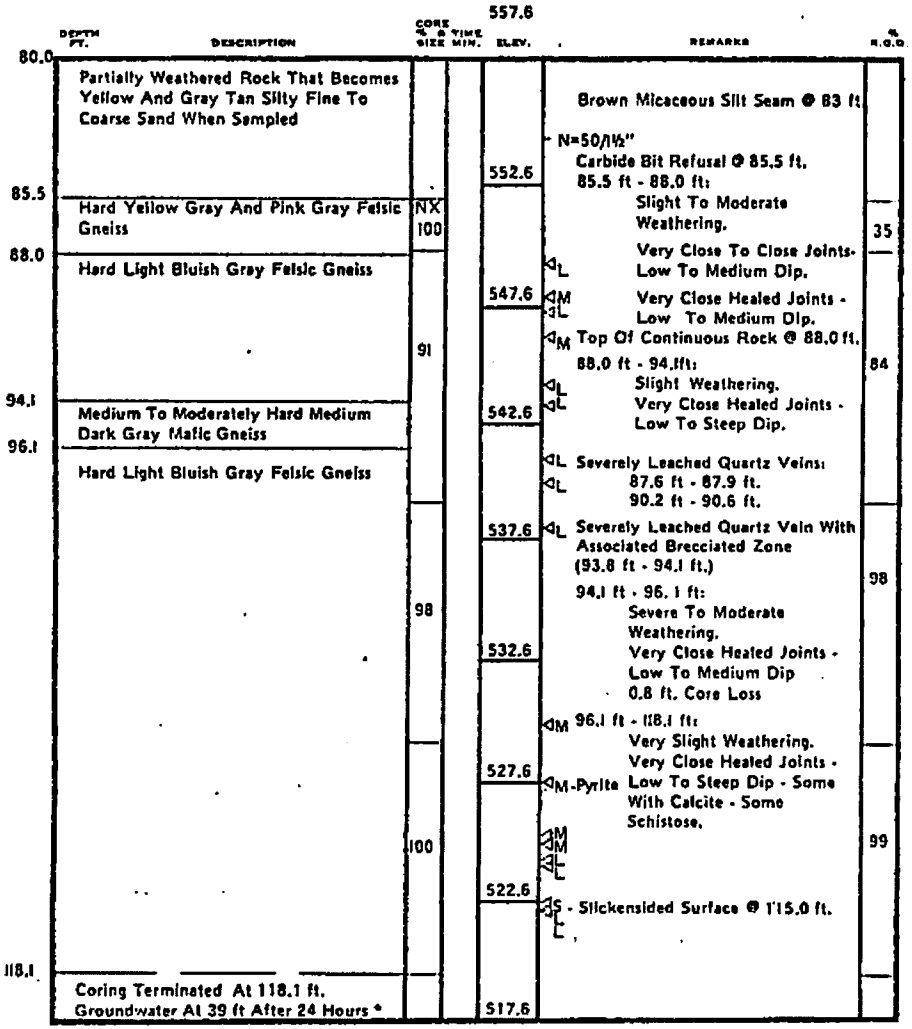
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
36 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-61
DATE DRILLED 9-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



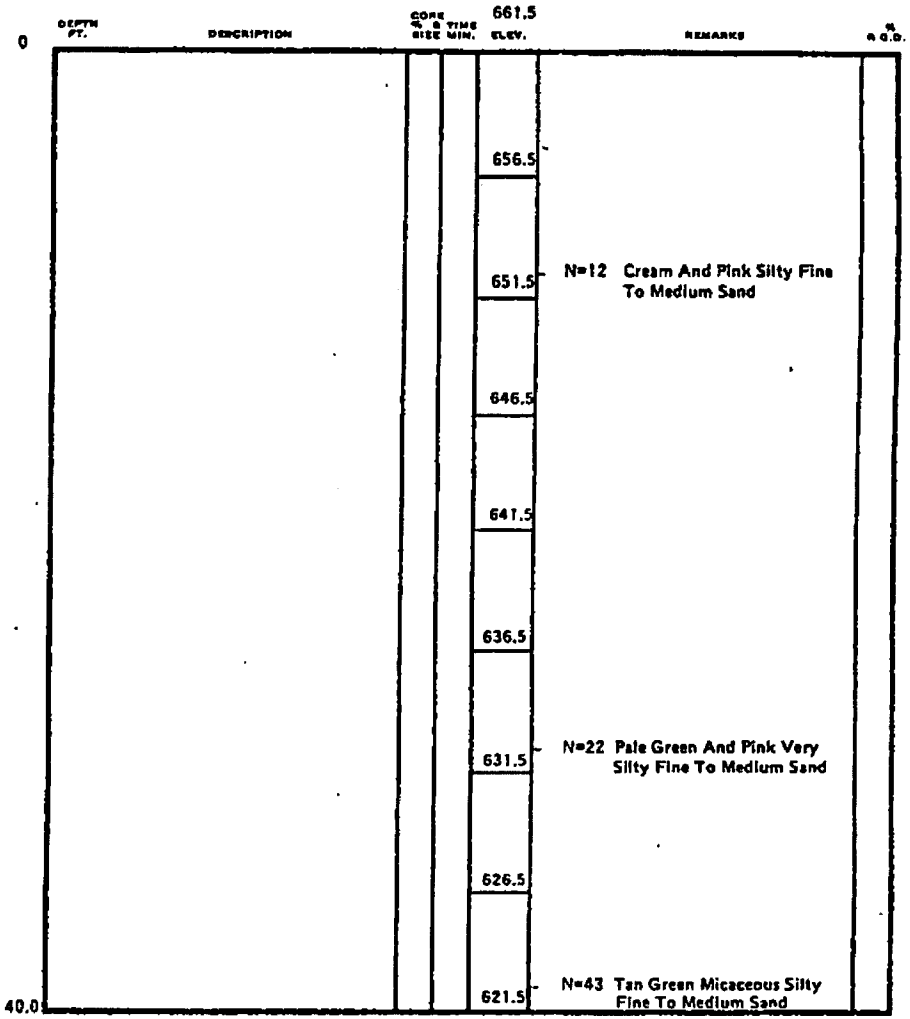
BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0-20° M = MED. DIP 20°-60° S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-61
DATE DRILLED 9-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



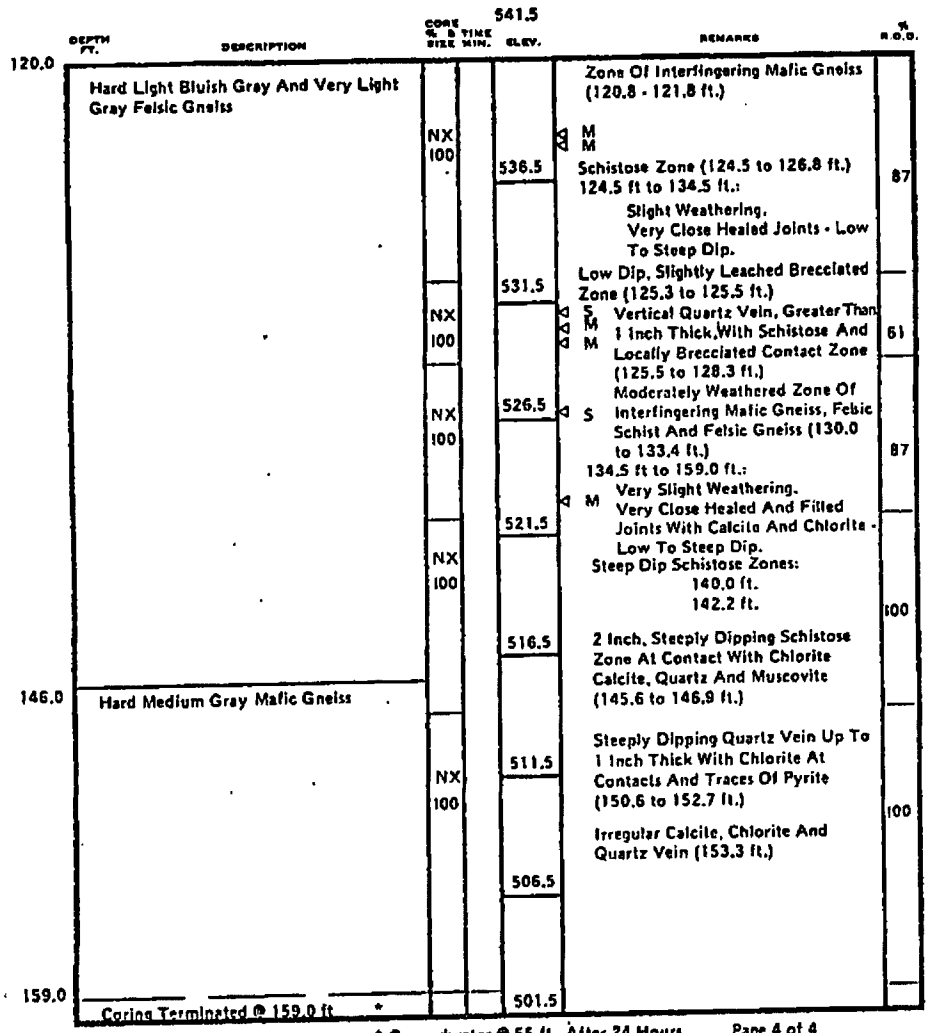
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0-20° M = MED. DIP 20°-60° S = STEEP DIP 60°-90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-62P
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

* Groundwater @ 55 ft. After 24 Hours
No Drilling Water Loss

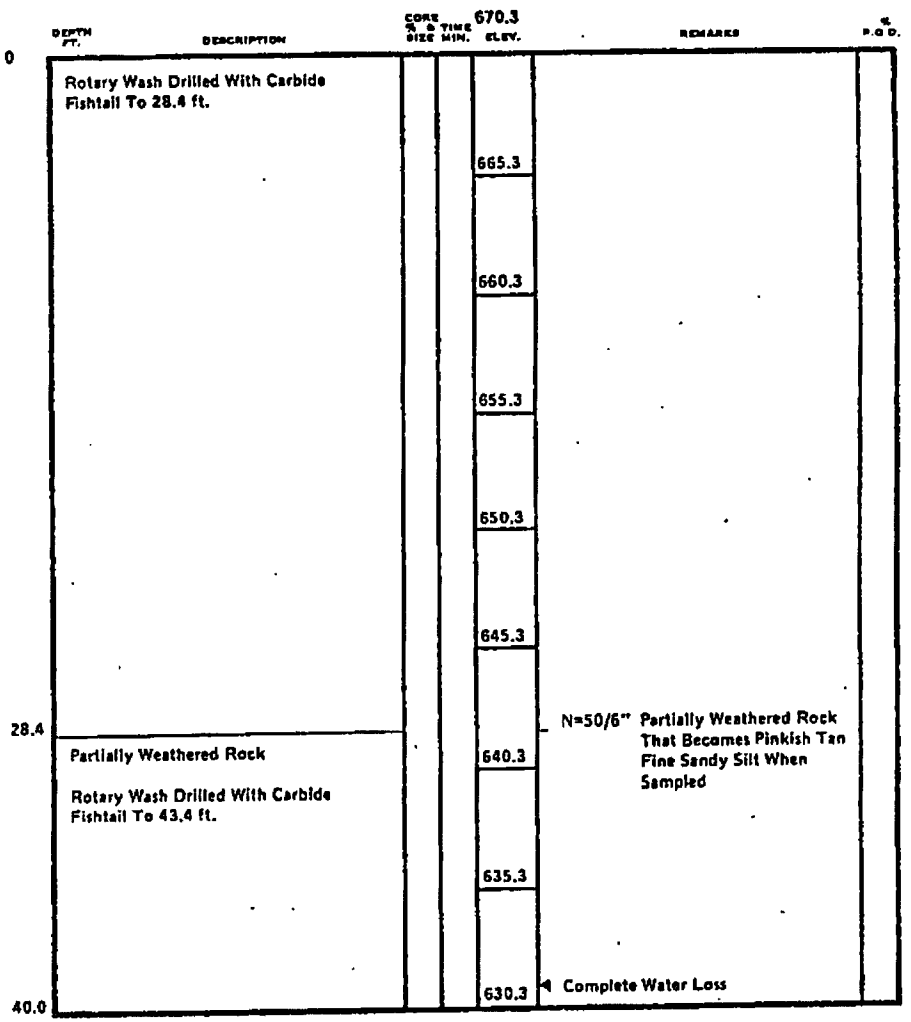
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-62P
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

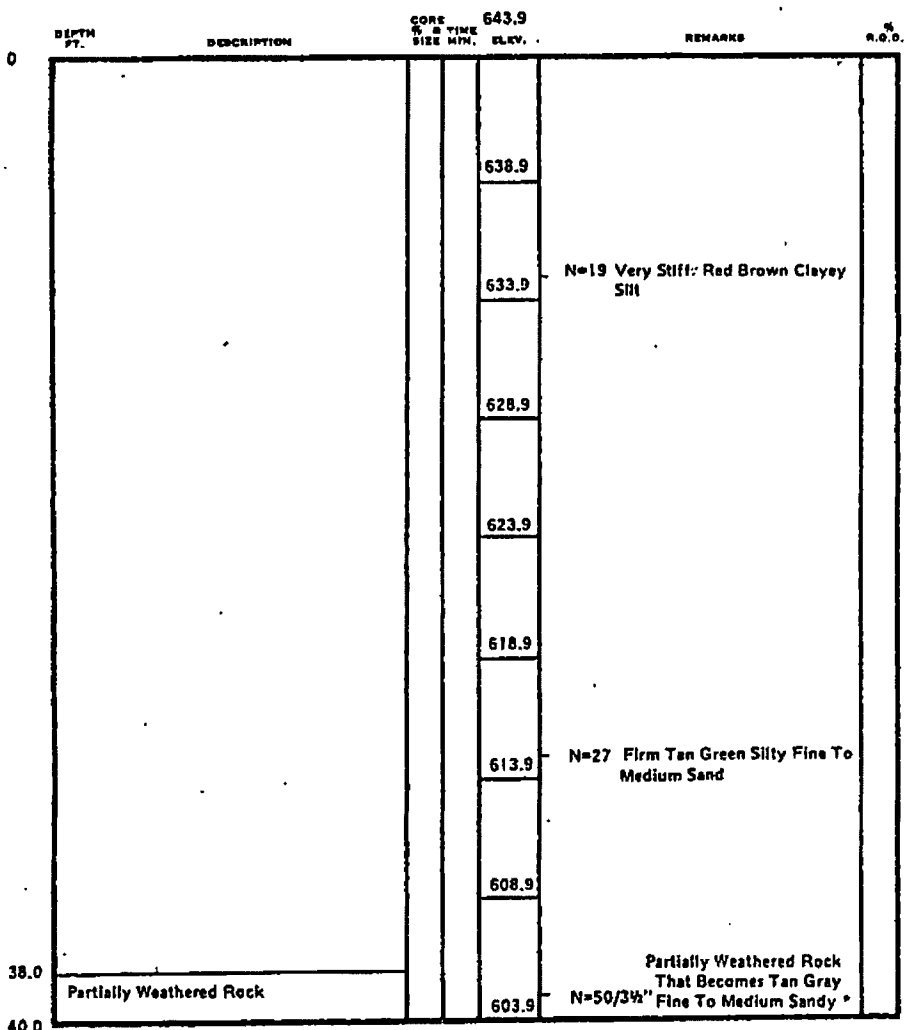
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-62AP
DATE DRILLED 9-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

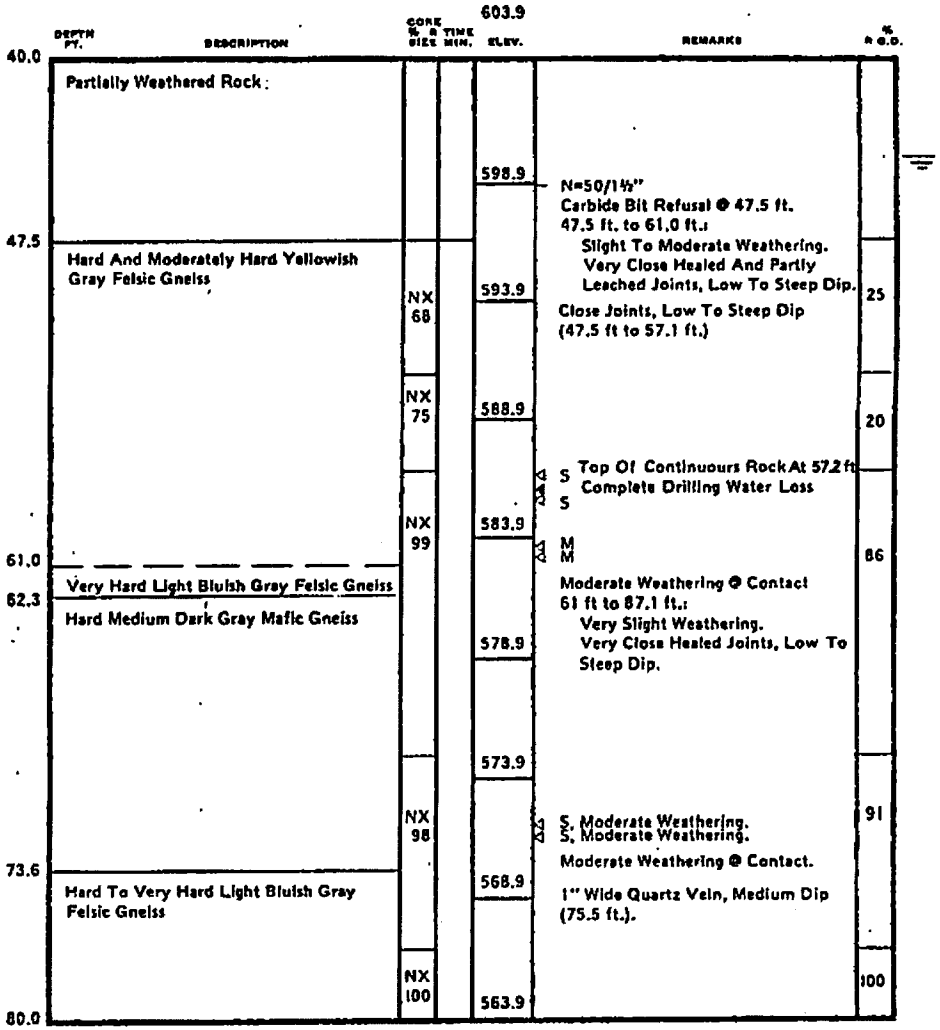
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3 * Silt When Sampled

TEST BORING RECORD

BORING NO. B-63P
DATE DRILLED 9-20-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

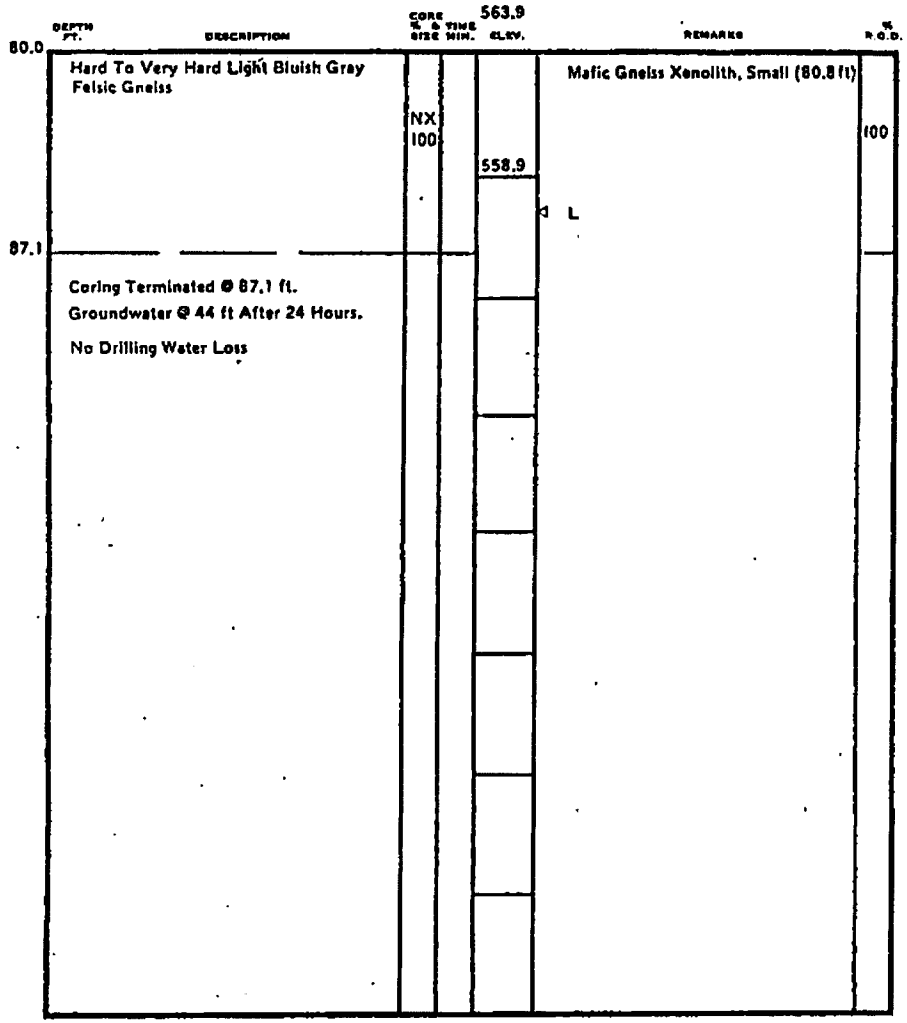
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-63P
DATE DRILLED 9-20-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

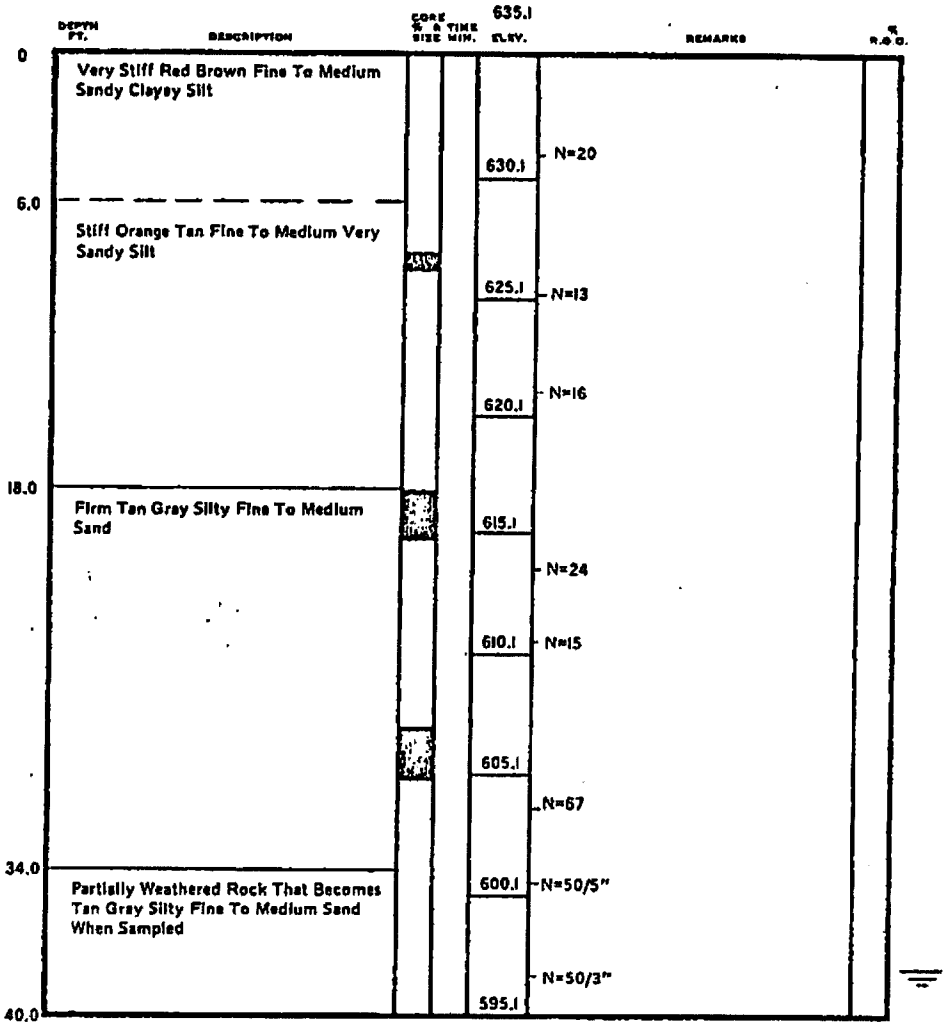
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-63P
DATE DRILLED 9-20-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

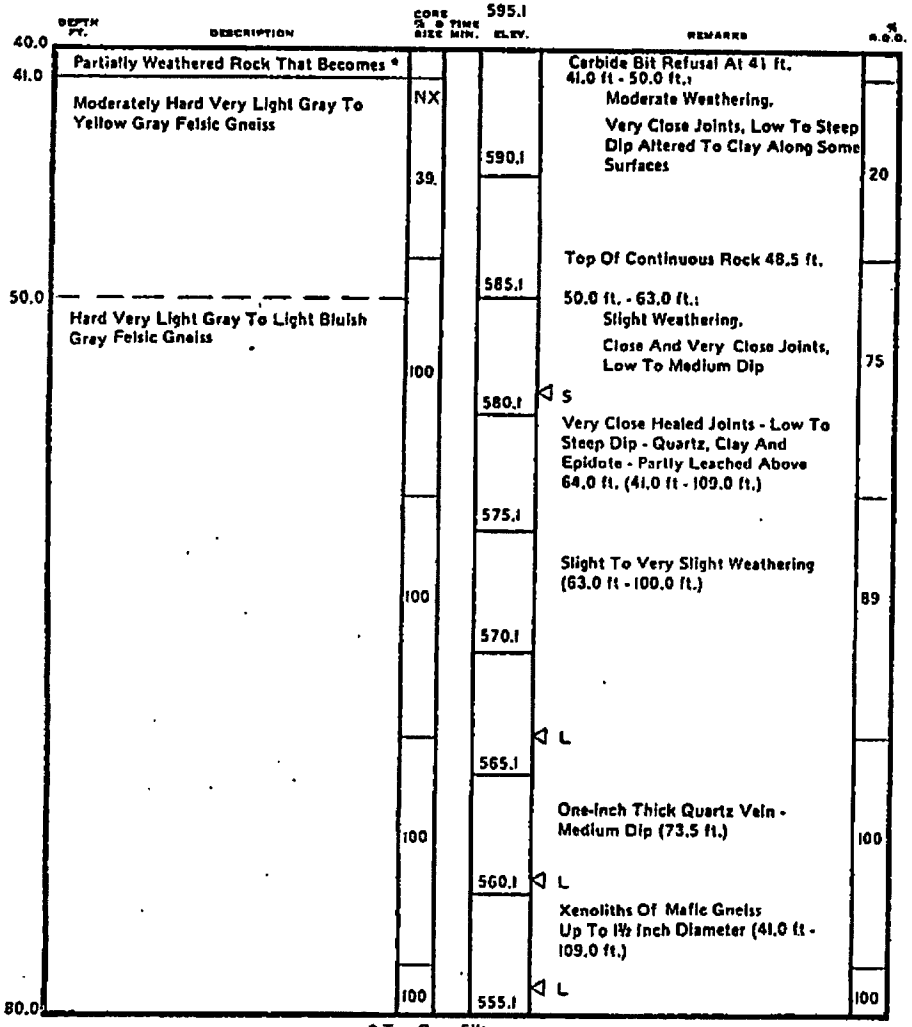
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-64
DATE DRILLED 8-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

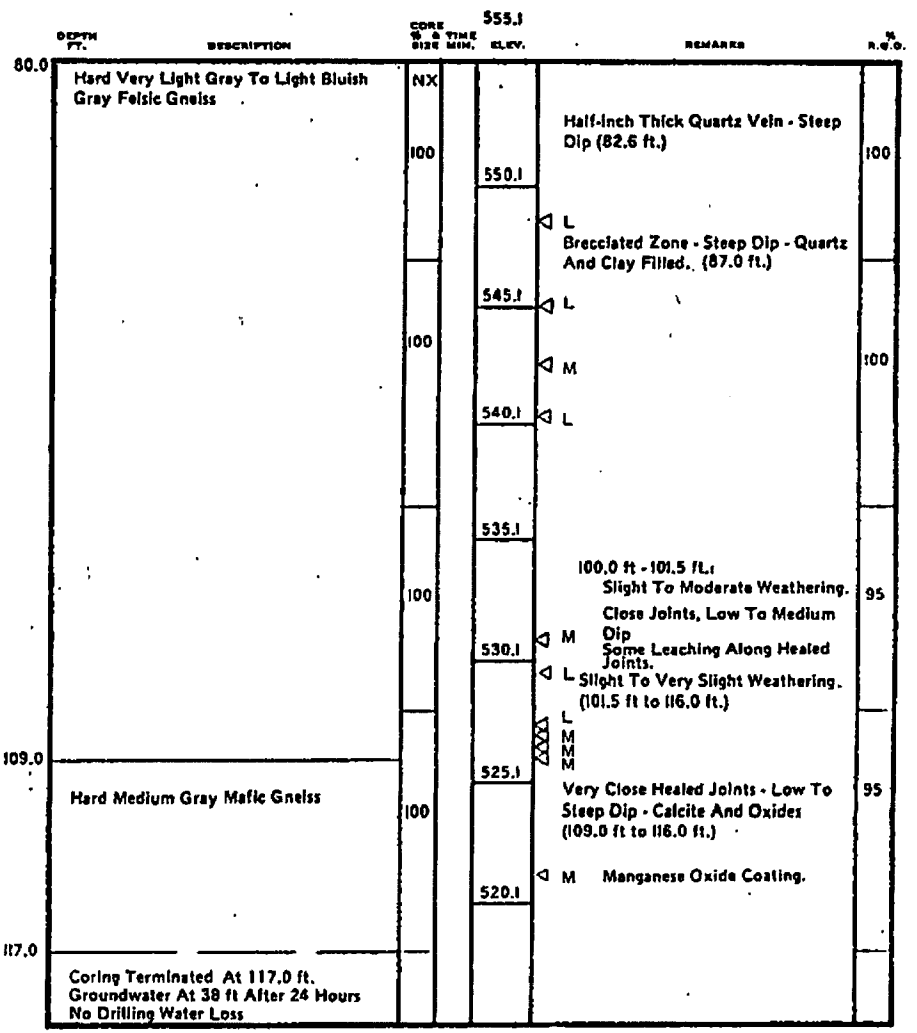
* Tan Gray Silty Fine To Medium Sand When Sampled

Page 2 of 3

TEST BORING RECORD

BORING NO. B-64
DATE DRILLED 8-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

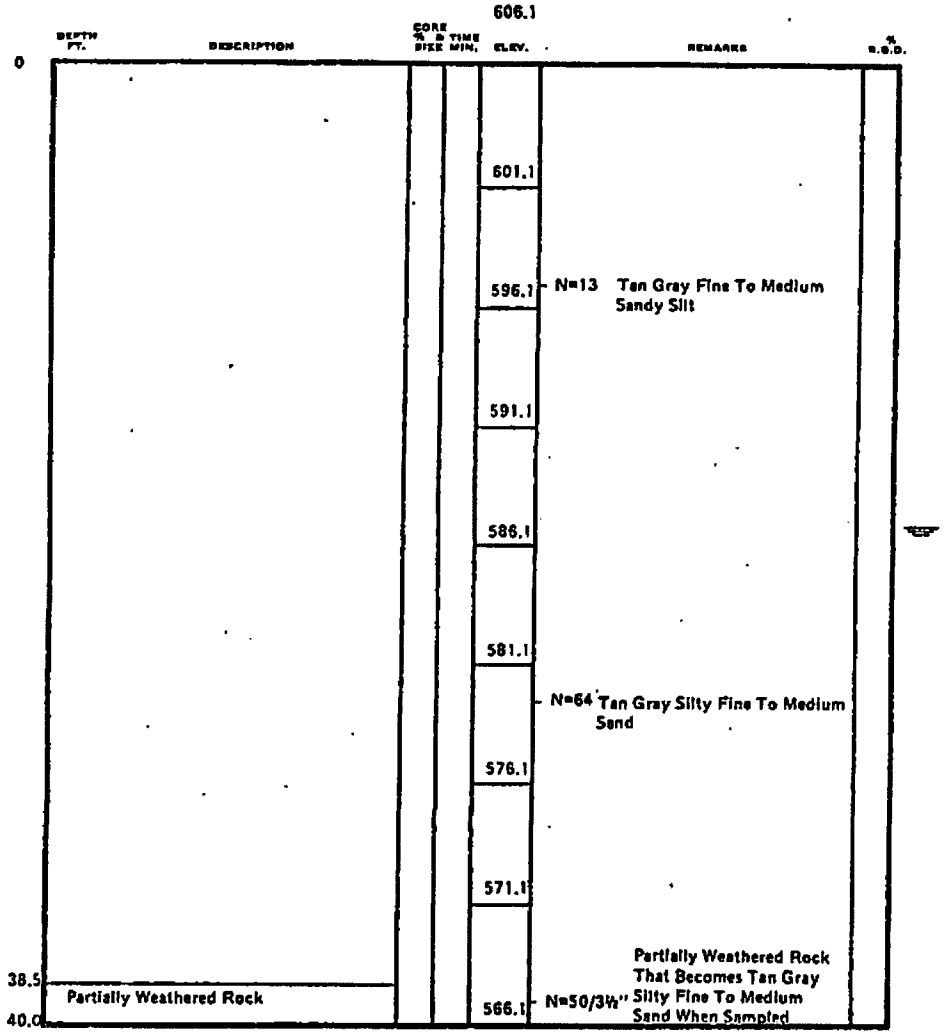
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-64
DATE DRILLED 8-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

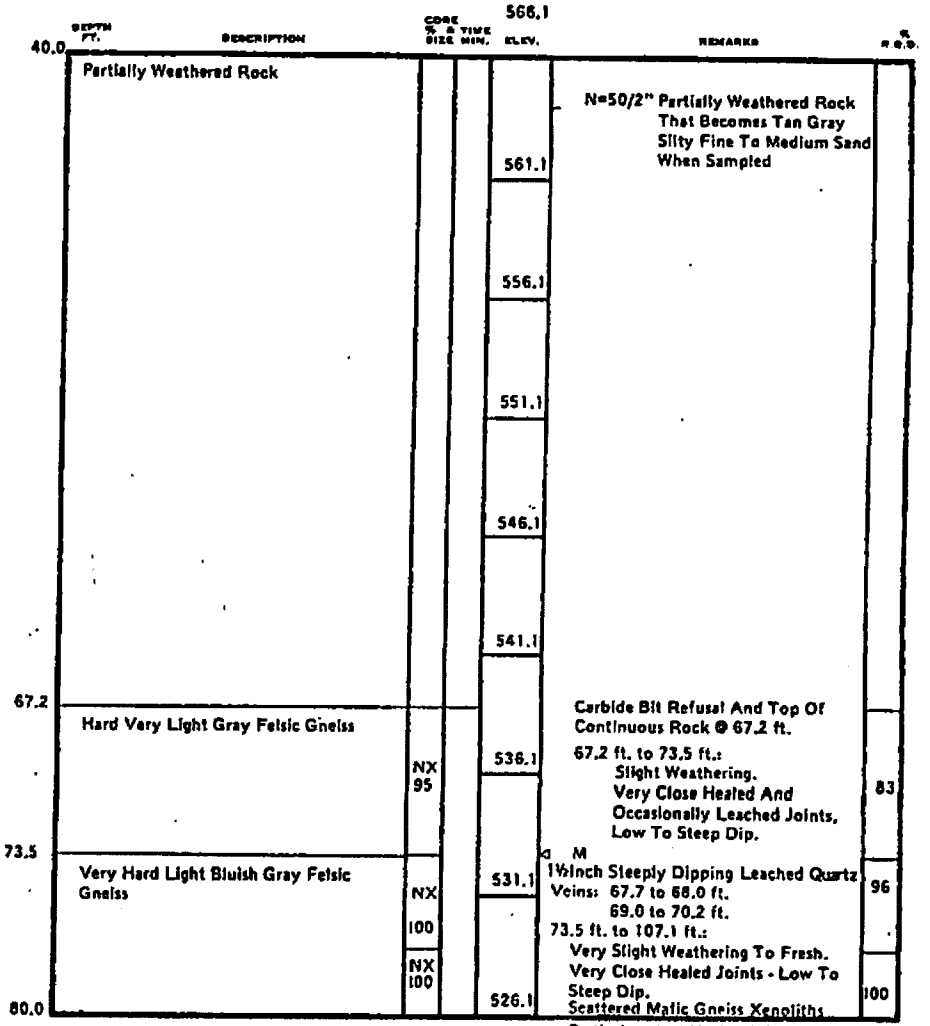
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-65P
DATE DRILLED 9-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

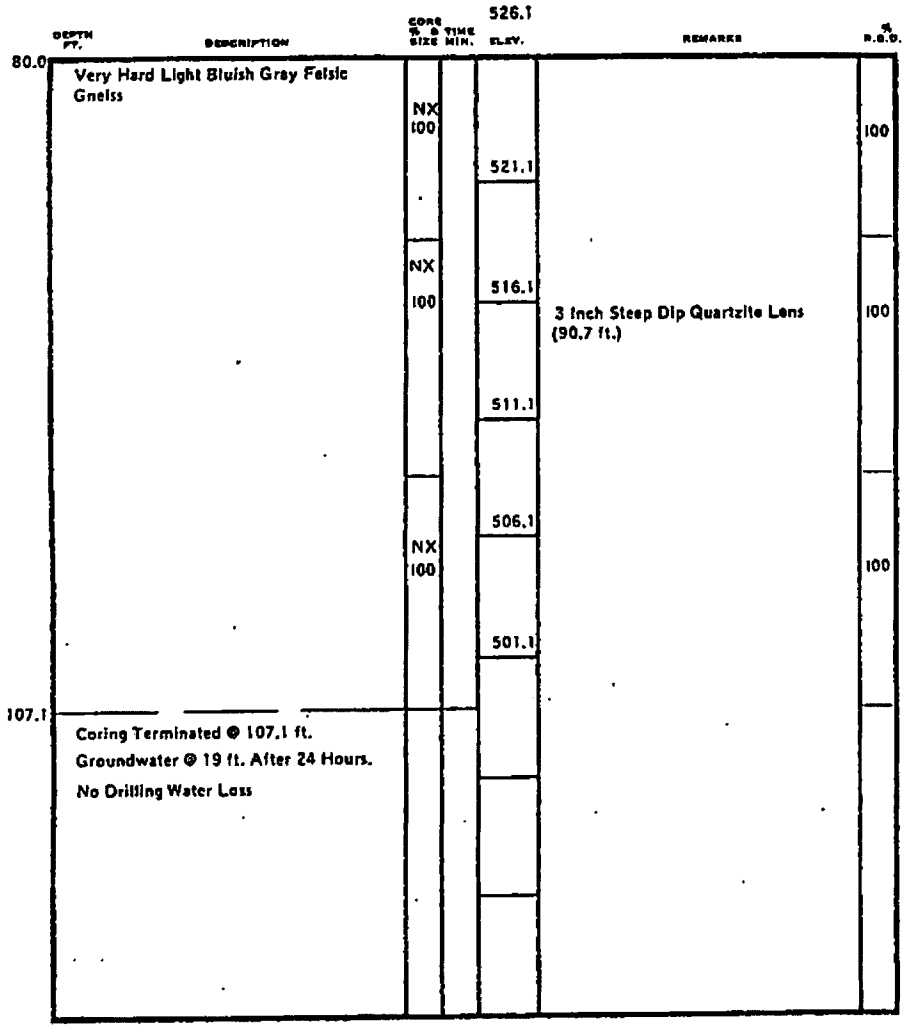
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-65P
DATE DRILLED 9-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

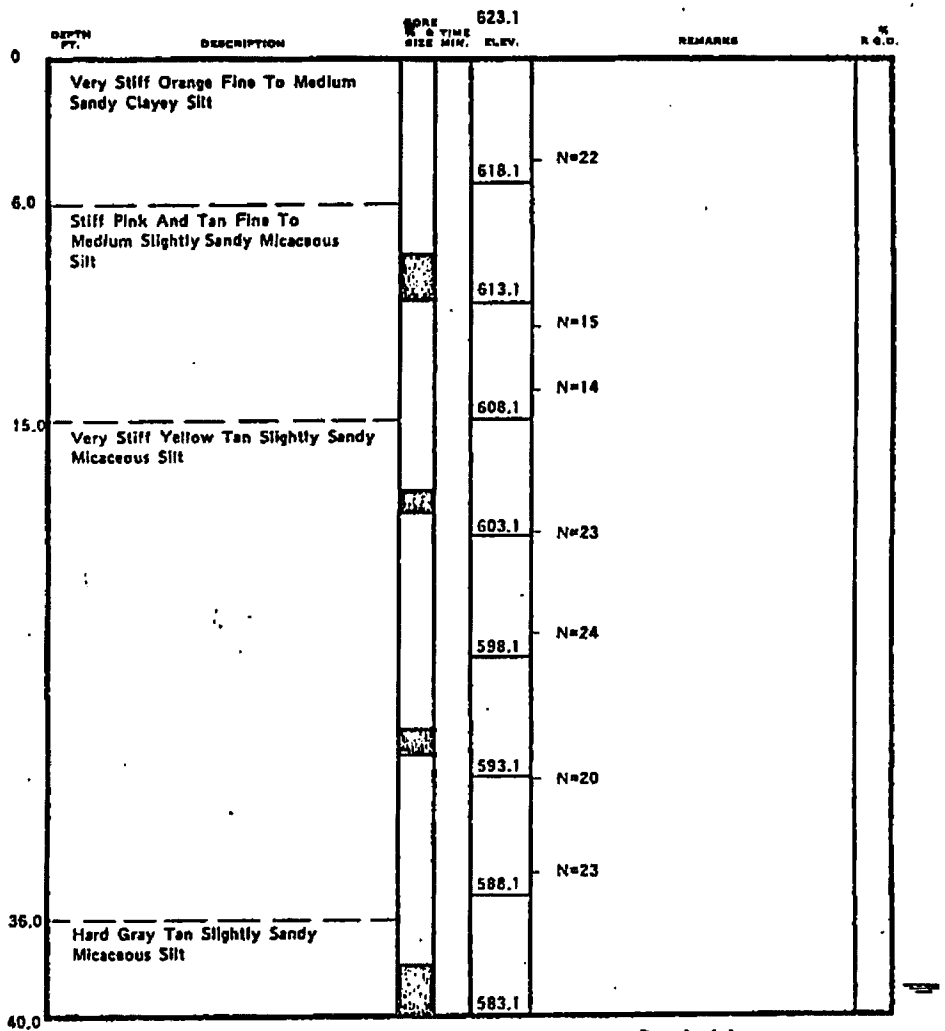
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-65P
DATE DRILLED 9-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

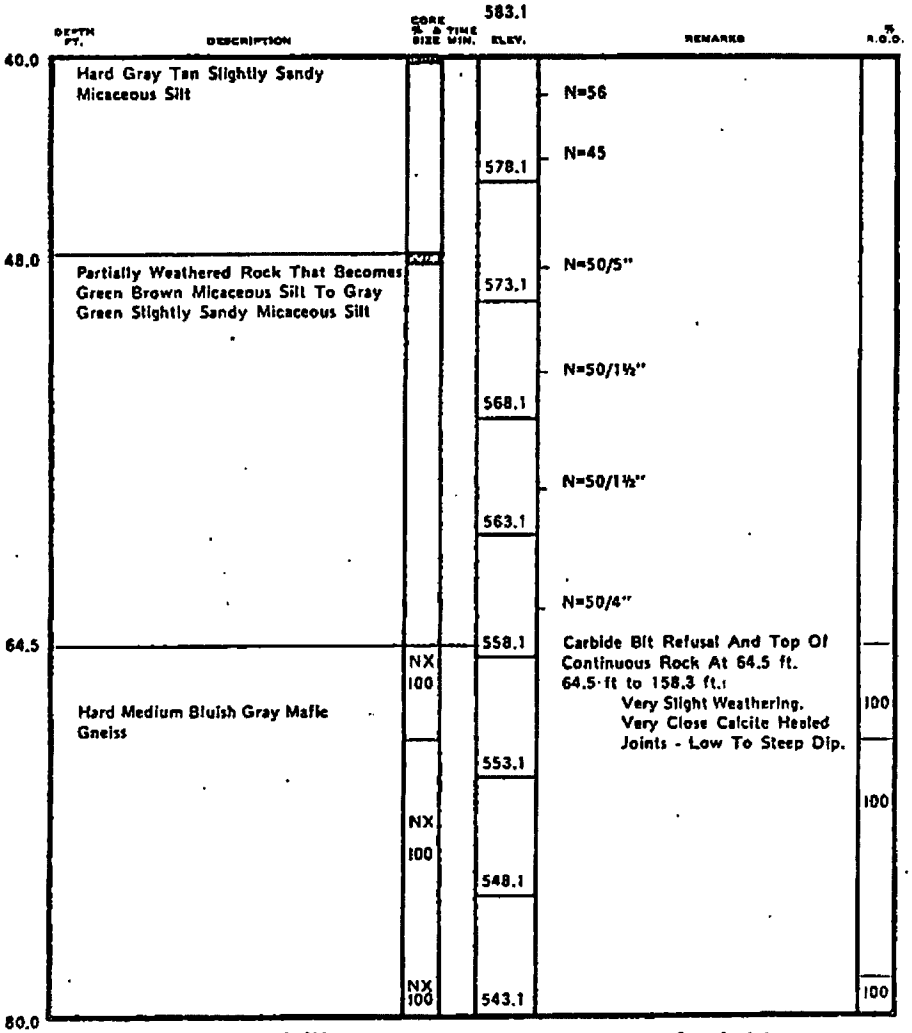
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-66
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

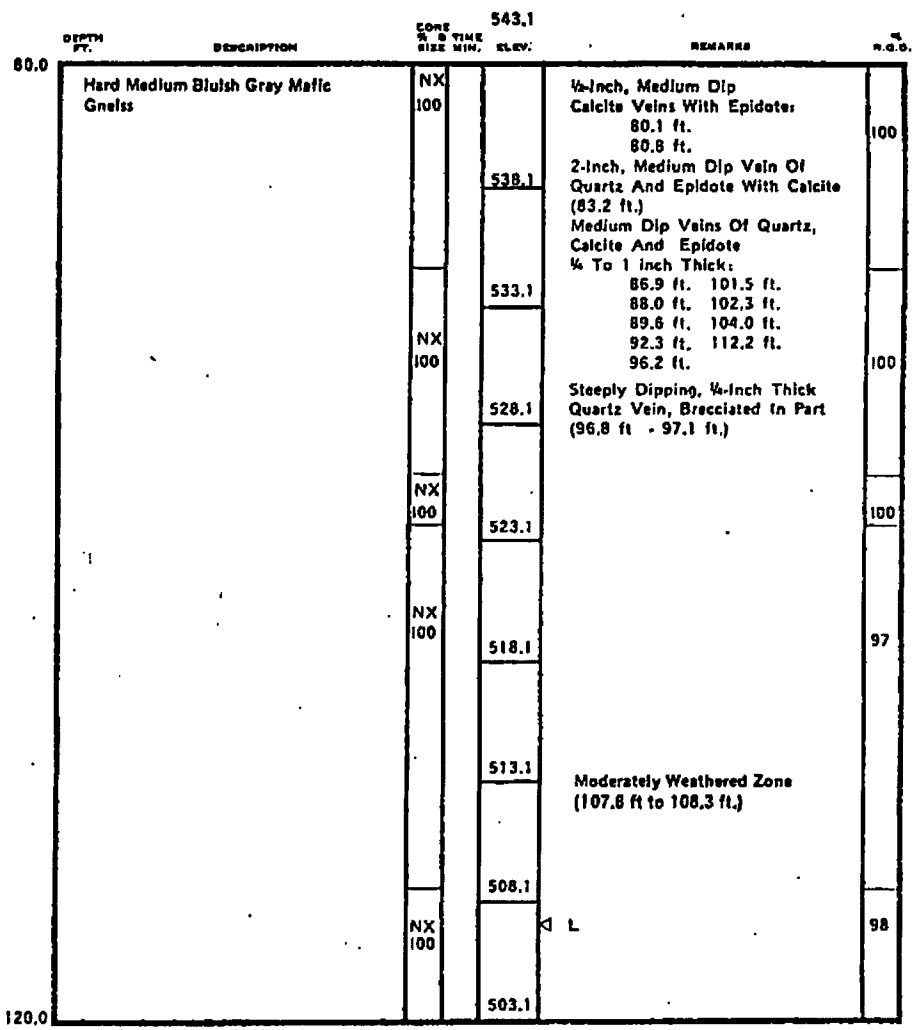
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-66
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

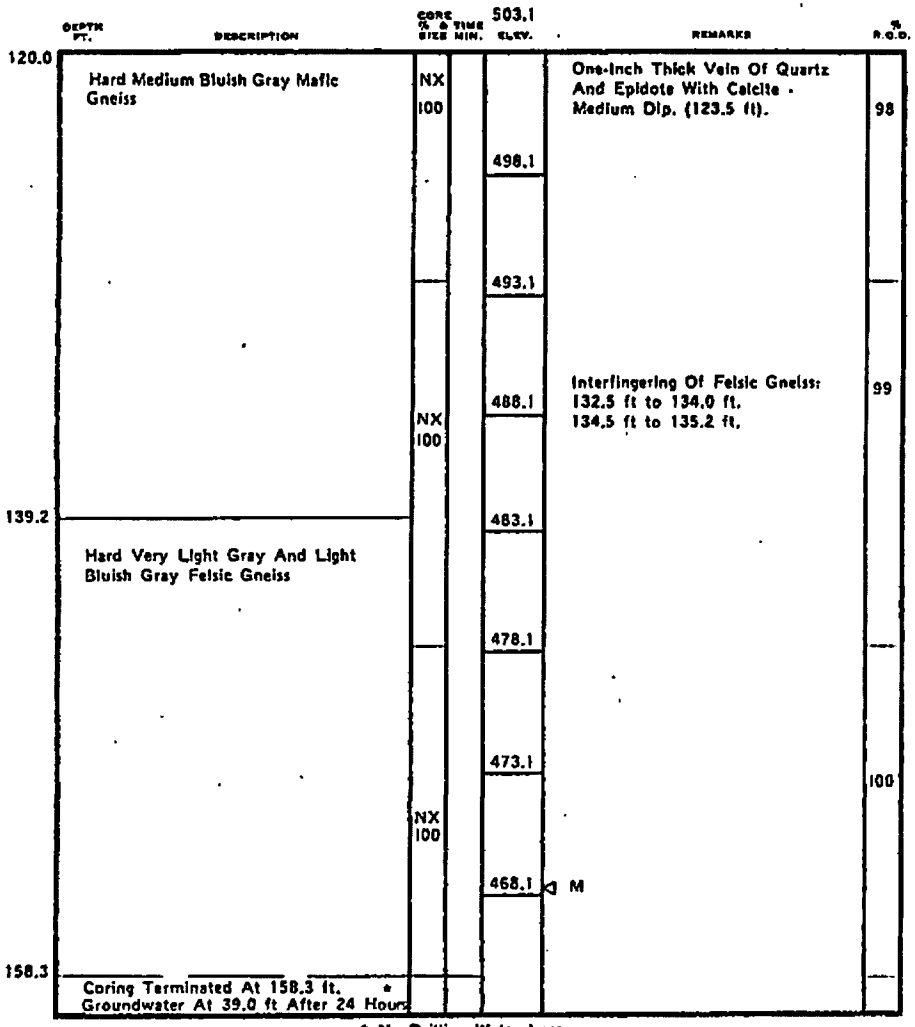
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-66
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

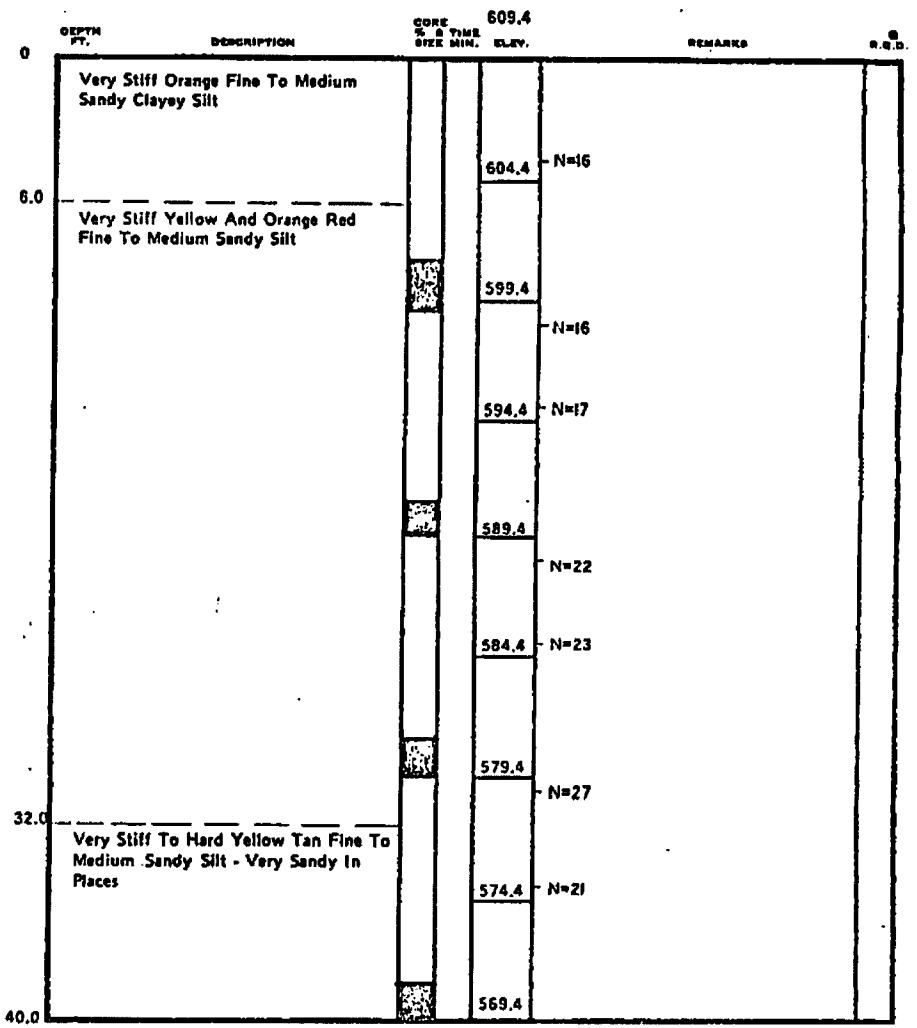
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-66
DATE DRILLED 8-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

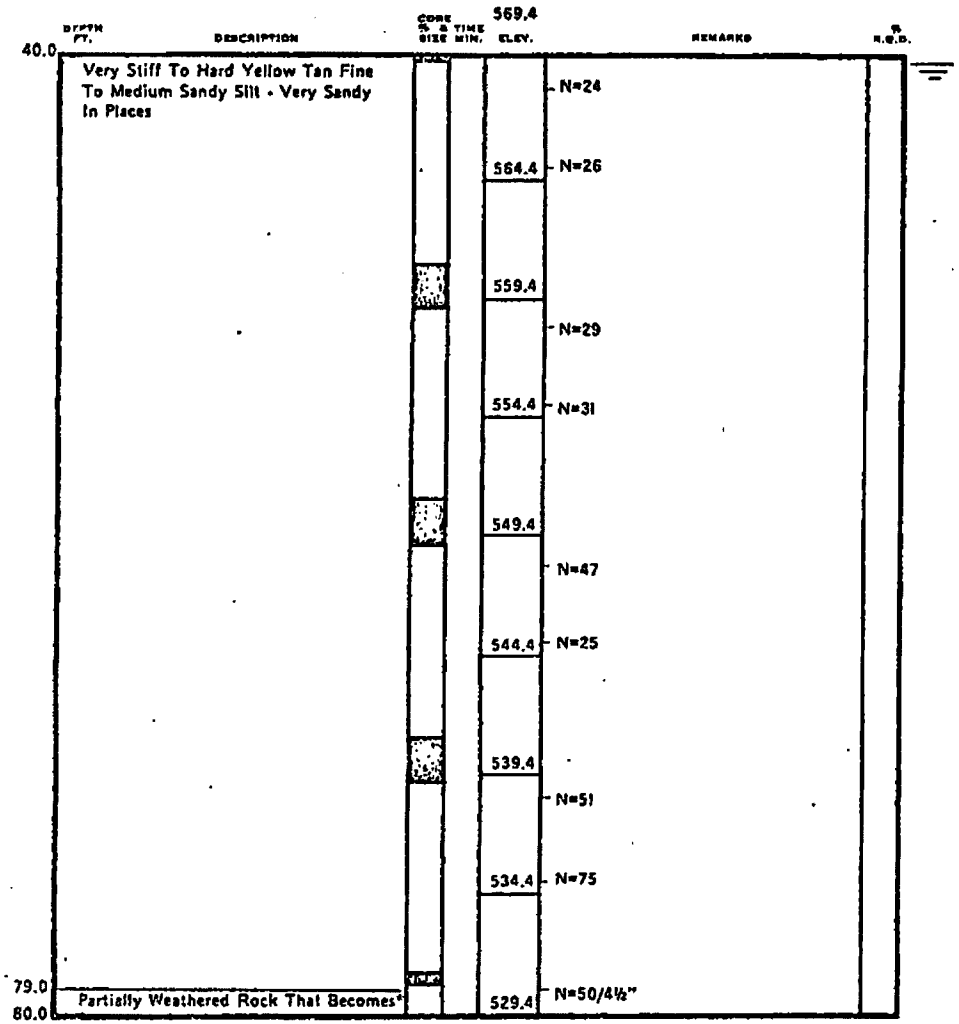
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-67
DATE DRILLED 9-6-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * Yellow Tan Silty Fine To Medium Sand When Sampled

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:

[50]/4 ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°

N = STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°

R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 2 of 3

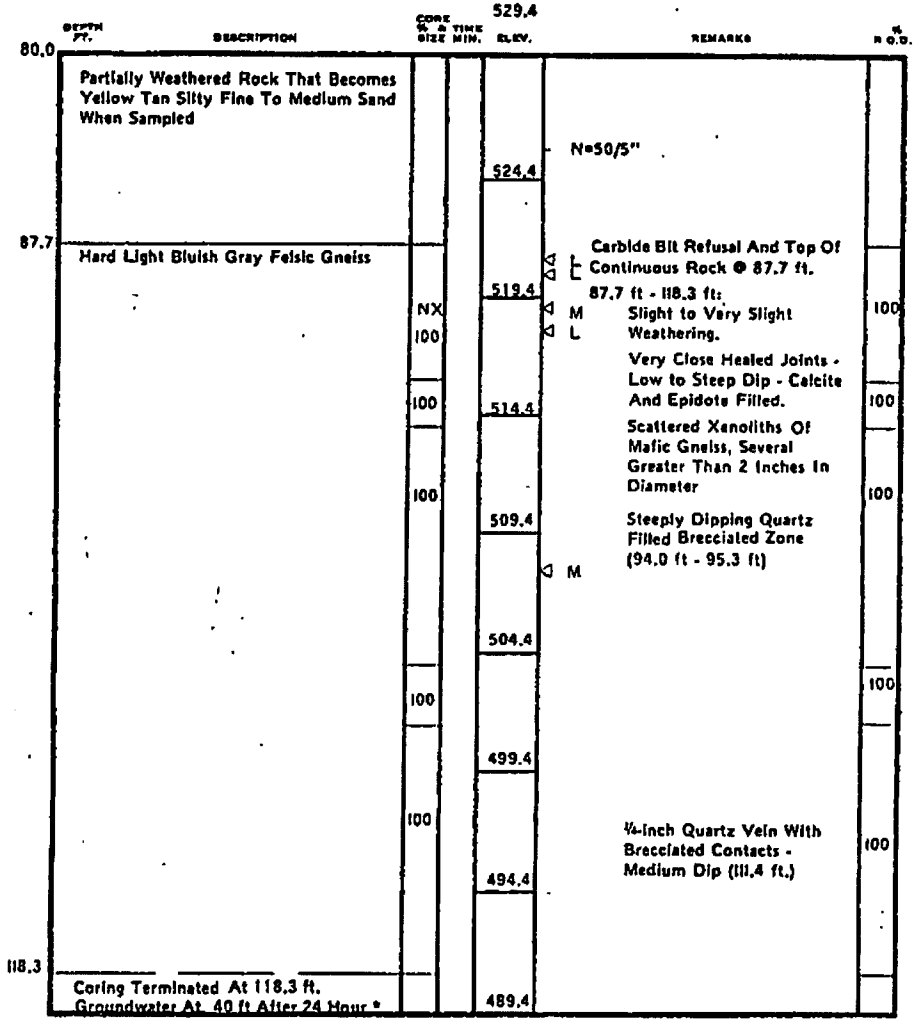
TEST BORING RECORD

BORING NO. B-67

DATE DRILLED 9-6-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:

[50]/4 ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°

N = STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°

R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 3 of 3

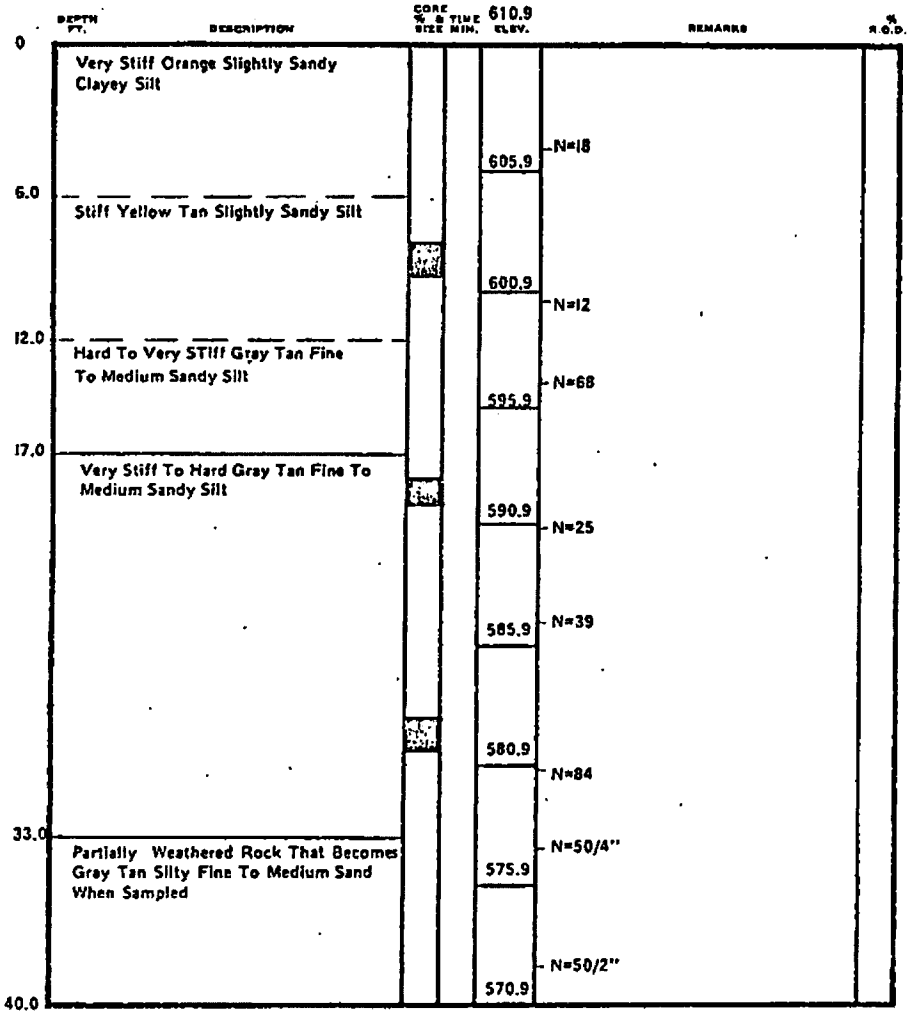
TEST BORING RECORD

BORING NO. B-67

DATE DRILLED 9-6-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

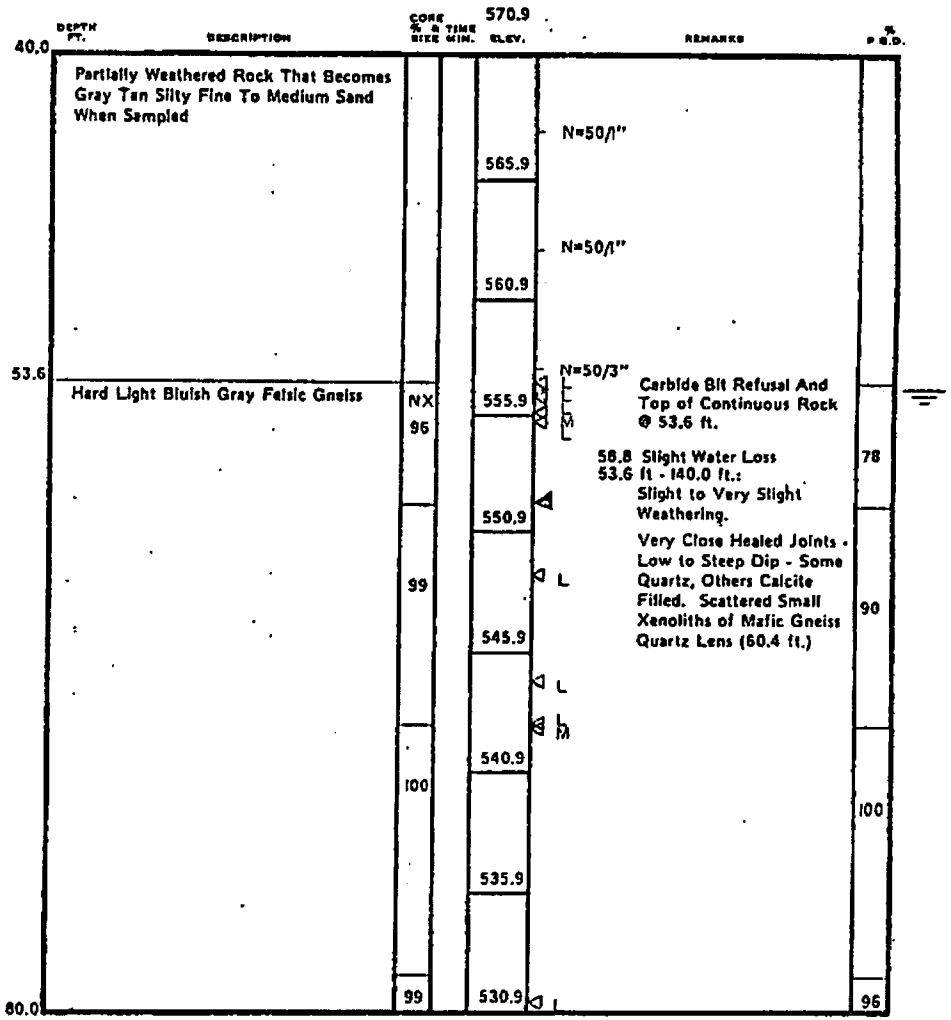
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-68
DATE DRILLED 8-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

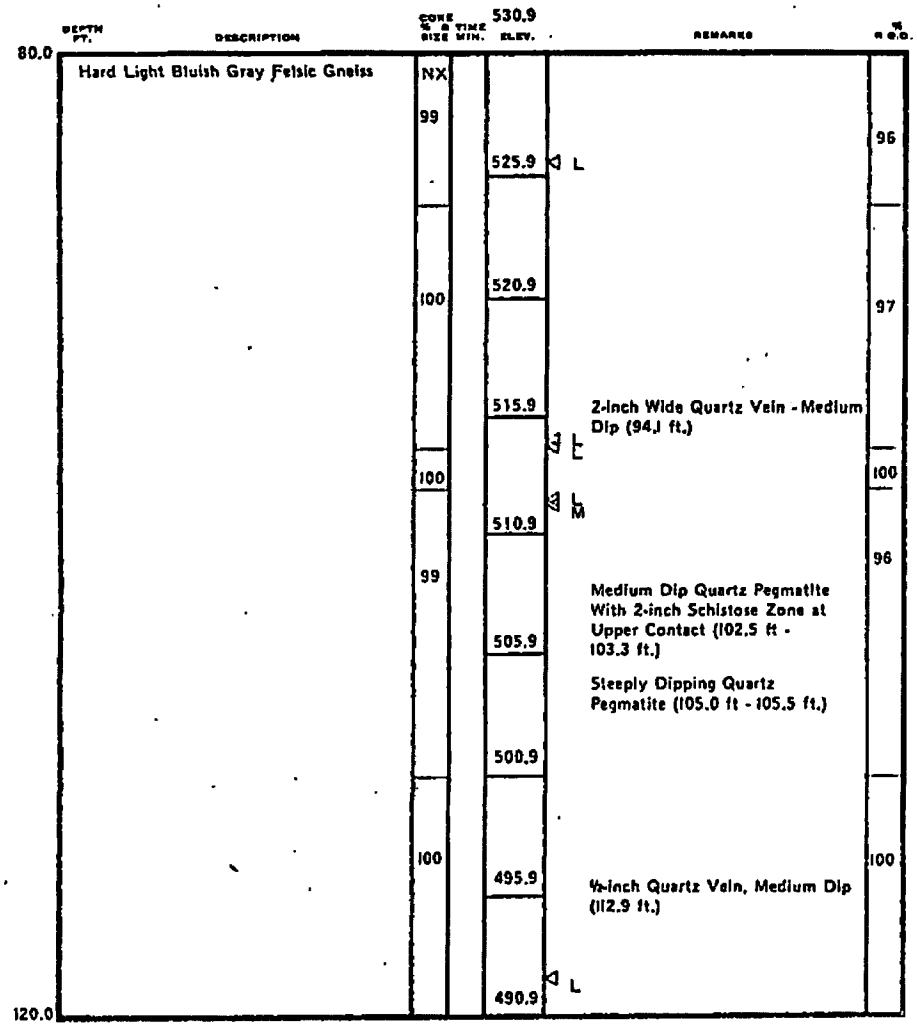
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-68
DATE DRILLED 8-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

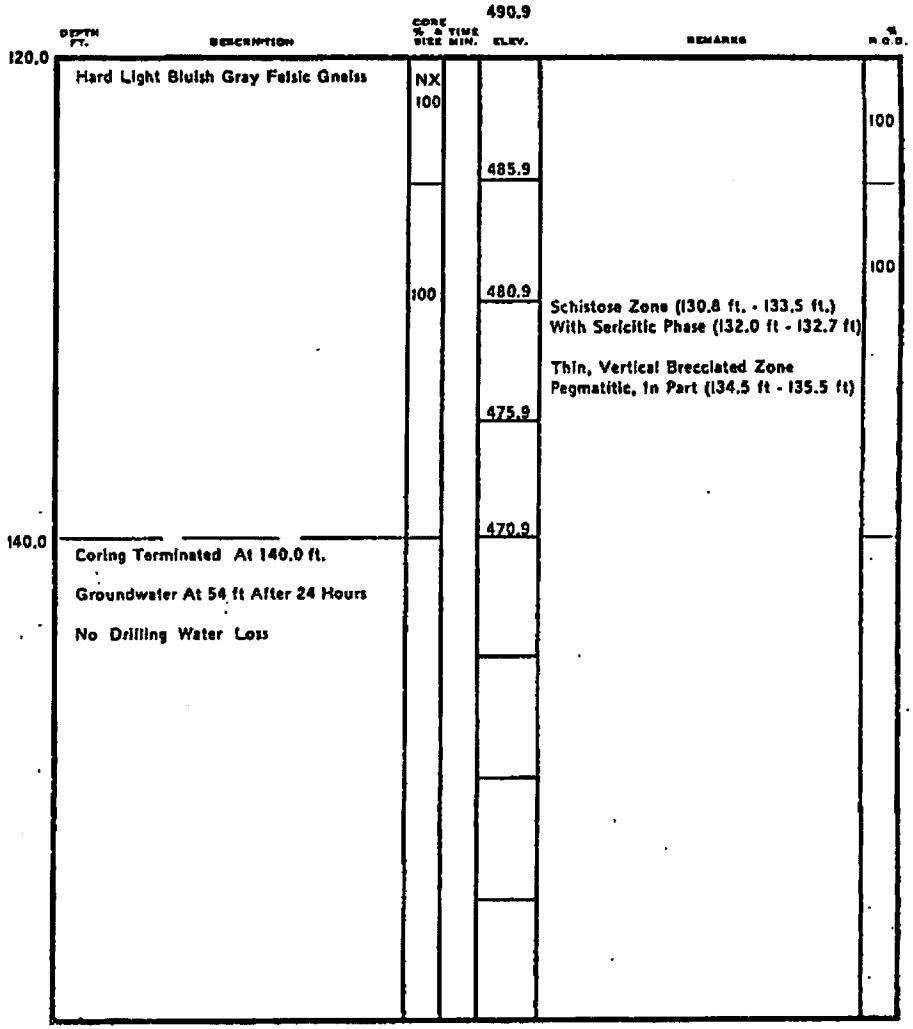
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-68
DATE DRILLED 8-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

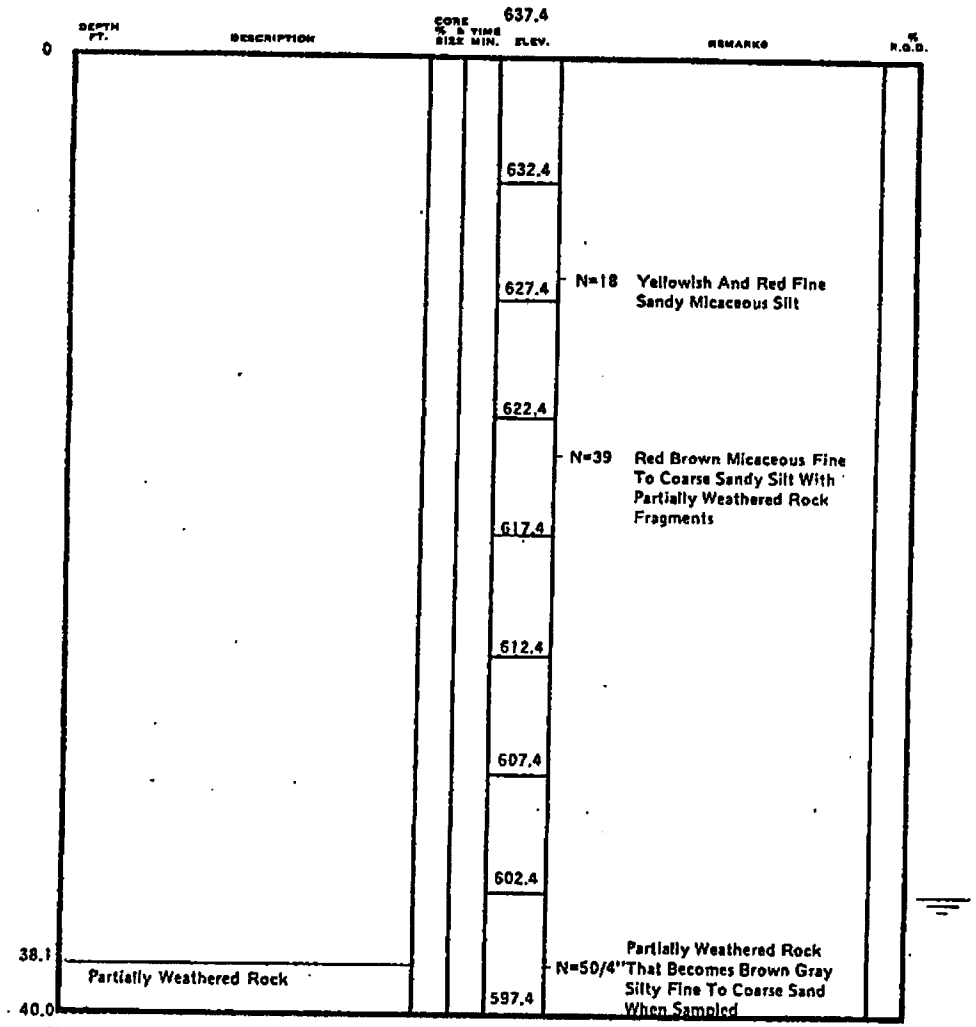
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-68
DATE DRILLED 8-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

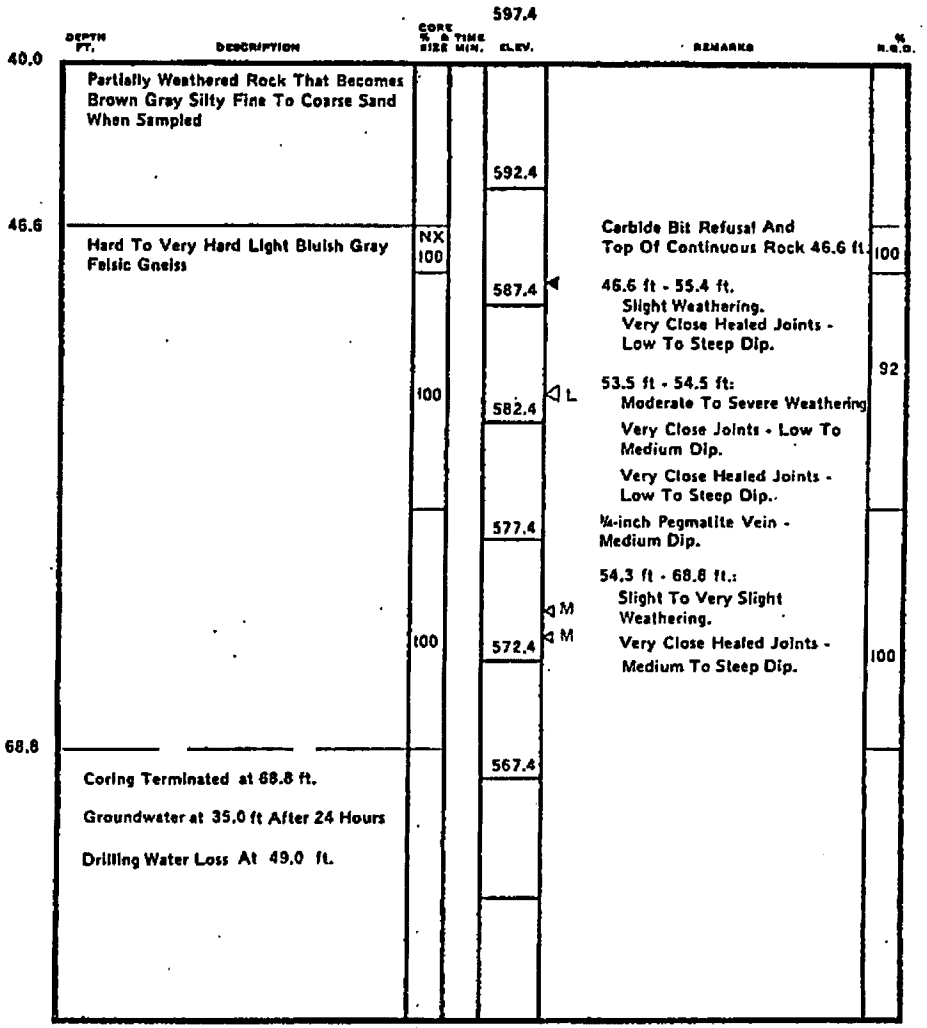
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-69 P
DATE DRILLED 9-21-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

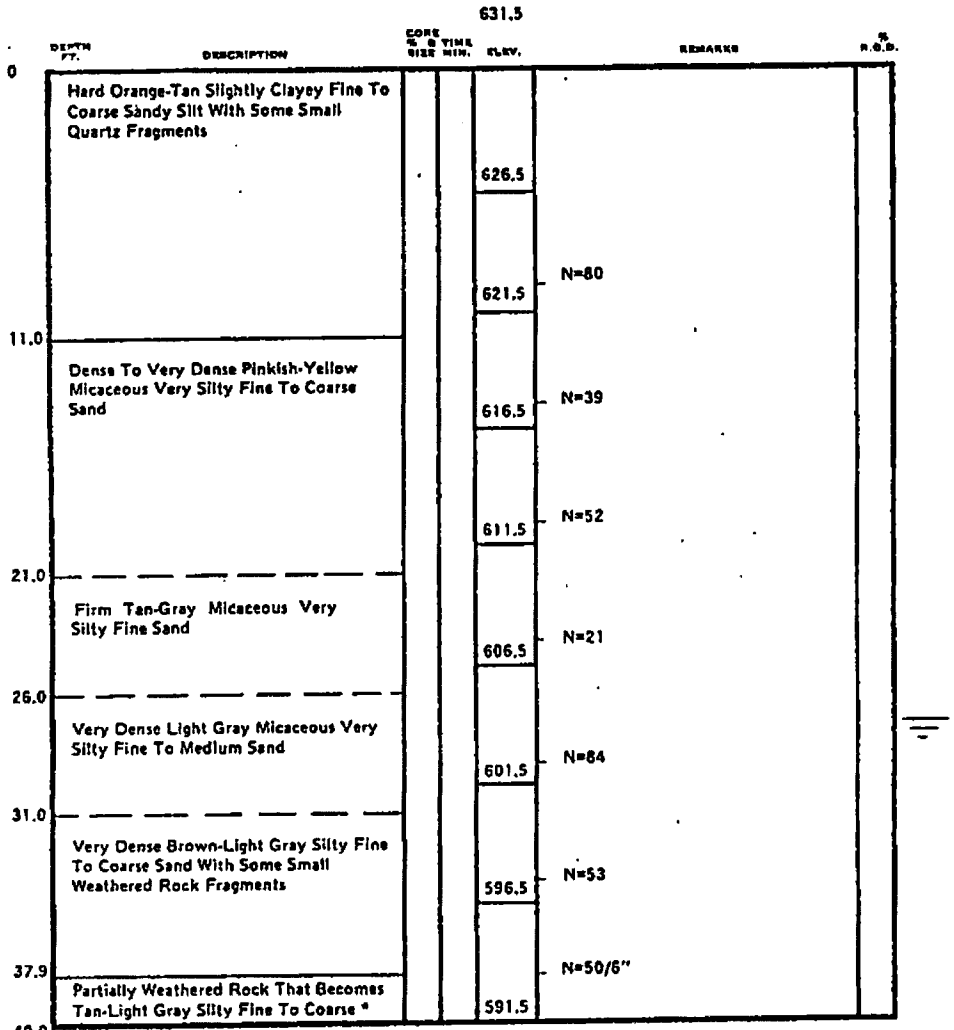
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

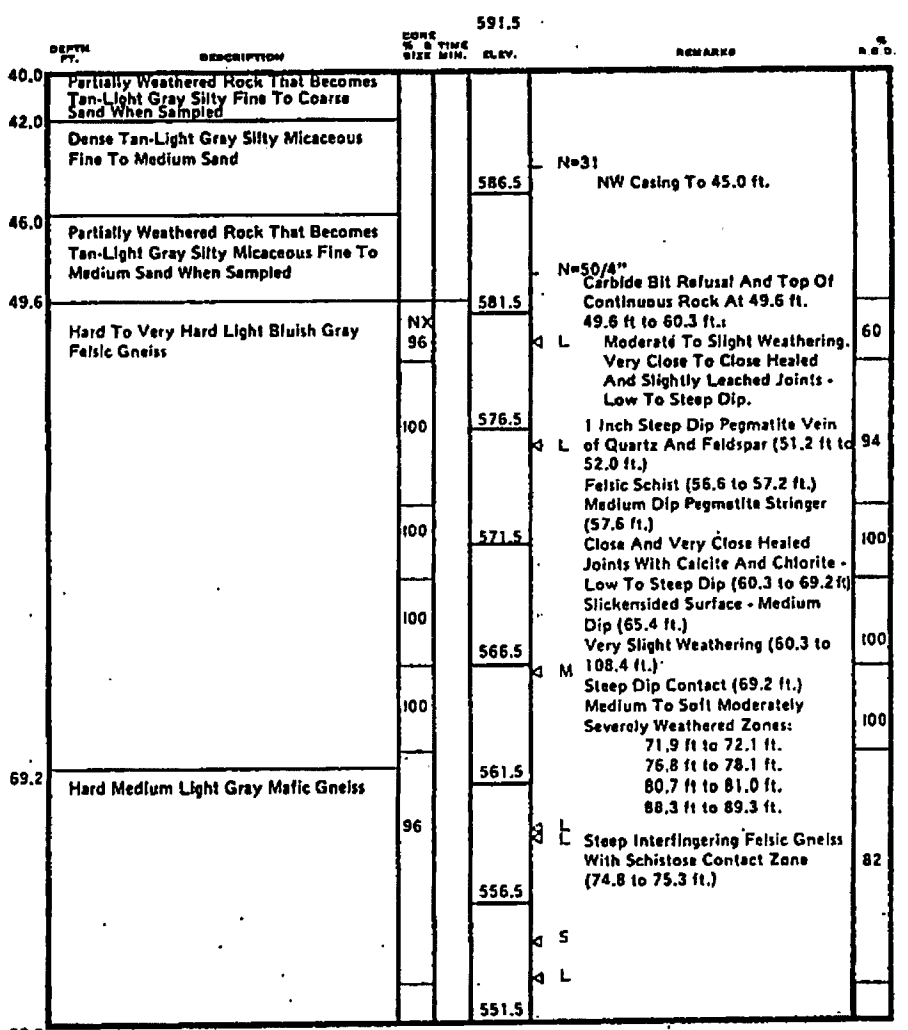
Page 2 of 2

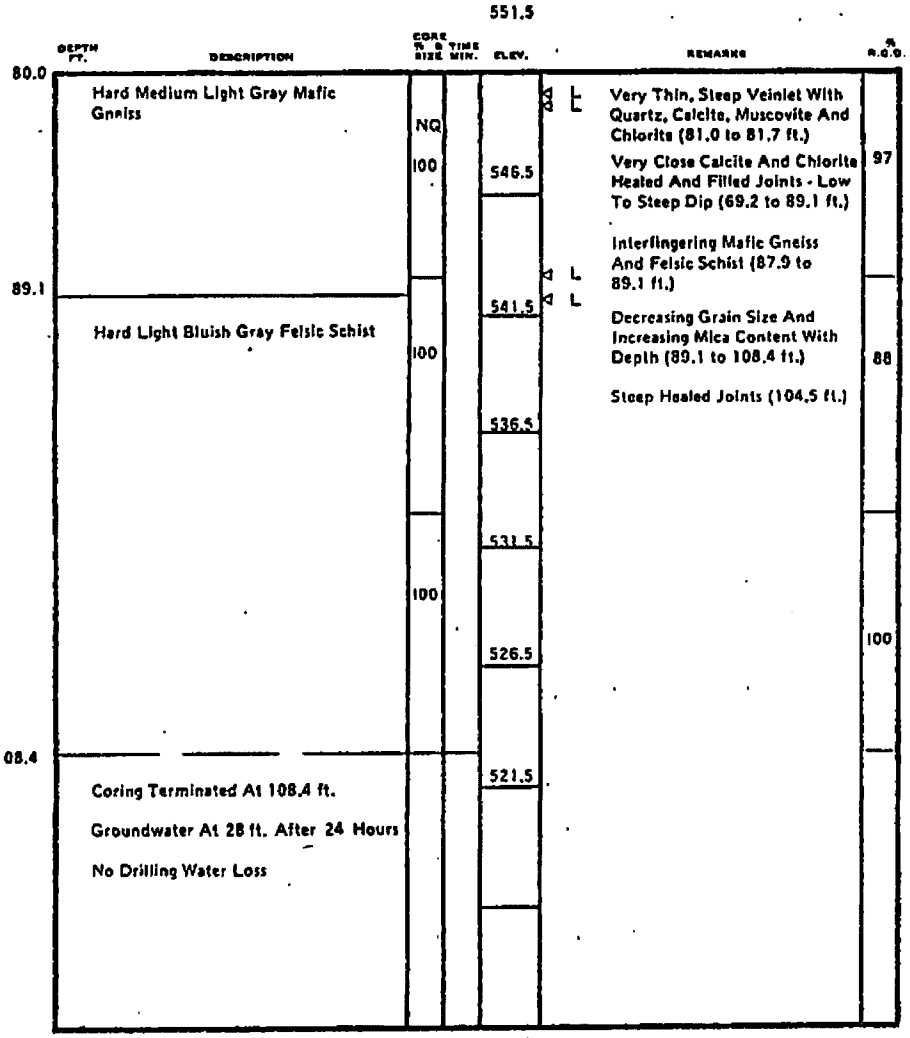
TEST BORING RECORD

BORING NO. B-69P
DATE DRILLED 9-21-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.


631.5
DEPTH FT.
DESCRIPTION
CORE & SIZE
TIME MIN.
ELEV.
REMARKS
% R.Q.D.
0
Hard Orange-Tan Slightly Clayey Fine To Coarse Sandy Silt With Some Small Quartz Fragments
626.5
621.5
N=80
11.0
Dense To Very Dense Pinkish-Yellow Micaceous Very Silty Fine To Coarse Sand
616.5
N=39
611.5
N=52
21.0
Firm Tan-Gray Micaceous Very Silty Fine Sand
606.5
N=21
26.0
Very Dense Light Gray Micaceous Very Silty Fine To Medium Sand
601.5
N=84
31.0
Very Dense Brown-Light Gray Silty Fine To Coarse Sand With Some Small Weathered Rock Fragments
596.5
N=53
37.9
Partially Weathered Rock That Becomes Tan-Light Gray Silty Fine To Coarse *
591.5
N=50/6"
40.0
* Sand When Sampled
Page 1 of 3
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE
WATER TABLE, 24 HR.
ROCK CORE RECOVERY
WATER TABLE, 1 HR.
N - STANDARD PENETRATION
LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°
TEST BORING RECORD
BORING NO. B-70
DATE DRILLED 10-23-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.


591.5
DEPTH FT.
DESCRIPTION
CORE & SIZE
TIME MIN.
ELEV.
REMARKS
% R.Q.D.
40.0
Partially Weathered Rock That Becomes Tan-Light Gray Silty Fine To Coarse Sand When Sampled
42.0
Dense Tan-Light Gray Silty Micaceous Fine To Medium Sand
586.5
N=31
NW Casing To 45.0 ft.
46.0
Partially Weathered Rock That Becomes Tan-Light Gray Silty Micaceous Fine To Medium Sand When Sampled
N=50/4"
Carbide Bit Refusal And Top Of Continuous Rock At 49.6 ft.
49.6
581.5
Hard To Very Hard Light Bluish Gray Felsic Gneiss
NX
96
100
100
100
100
96
576.5
571.5
566.5
561.5
556.5
551.5
L
Moderate To Slight Weathering. Very Close To Close Healed And Slightly Leached Joints - Low To Steep Dip.
1 Inch Steep Dip Pegmatite Vein of Quartz And Feldspar (51.2 ft to 52.0 ft.)
Felsic Schist (56.6 to 57.2 ft.)
Medium Dip Pegmatite Stringer (57.6 ft.)
Close And Very Close Healed Joints With Calcite And Chlorite - Low To Steep Dip (60.3 to 69.2 ft)
Slickensided Surface - Medium Dip (65.4 ft.)
Very Slight Weathering (60.3 to 108.4 ft.)
M
Steep Dip Contact (69.2 ft.)
Medium To Soft Moderately Severely Weathered Zones:
71.9 ft to 72.1 ft.
76.8 ft to 78.1 ft.
80.7 ft to 81.0 ft.
88.3 ft to 89.3 ft.
Steep Interfingering Felsic Gneiss With Schistose Contact Zone (74.8 to 75.3 ft.)
S
60
94
100
100
100
82
69.2
Hard Medium Light Gray Mafic Gneiss
80.0
* 75.2 ft.
Page 2 of 3
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE
WATER TABLE, 24 HR.
ROCK CORE RECOVERY
WATER TABLE, 1 HR.
N - STANDARD PENETRATION
LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°
TEST BORING RECORD
BORING NO. B-70
DATE DRILLED 10-23-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



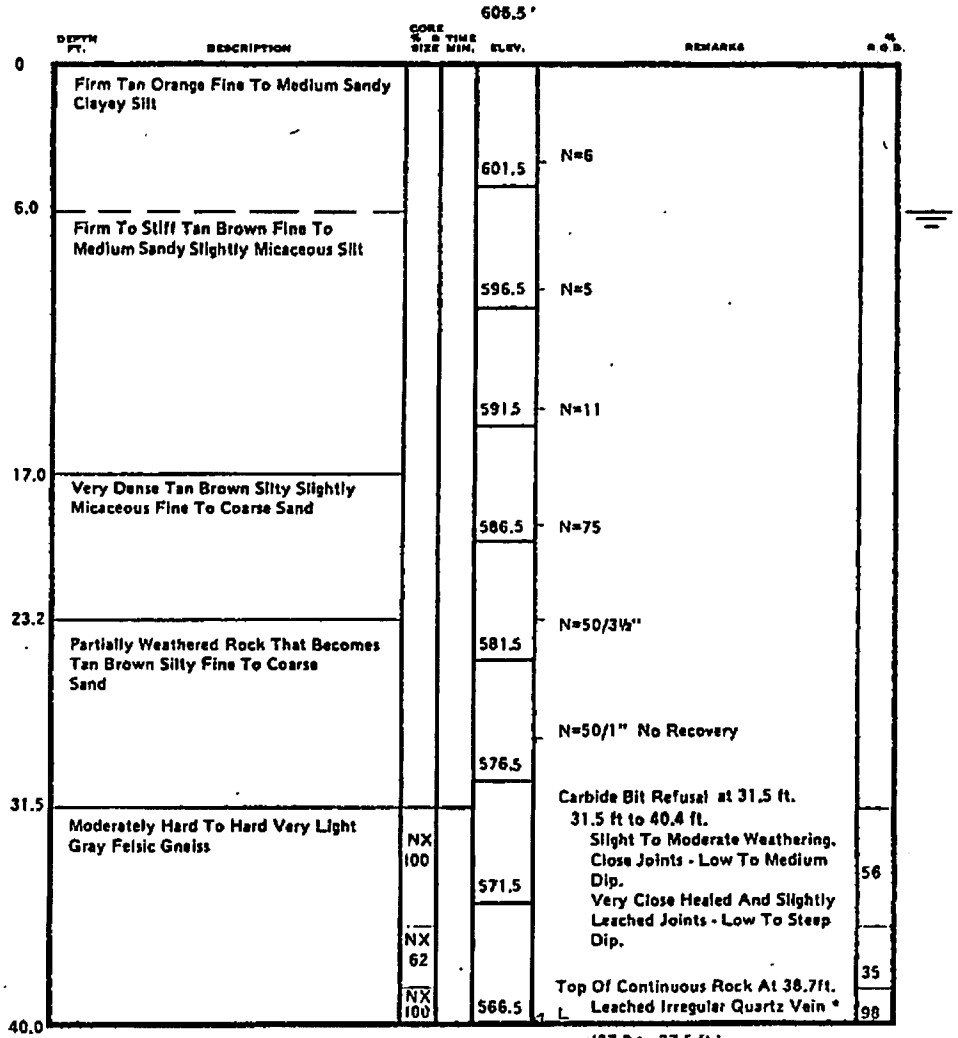
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-70
DATE DRILLED 10-23-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



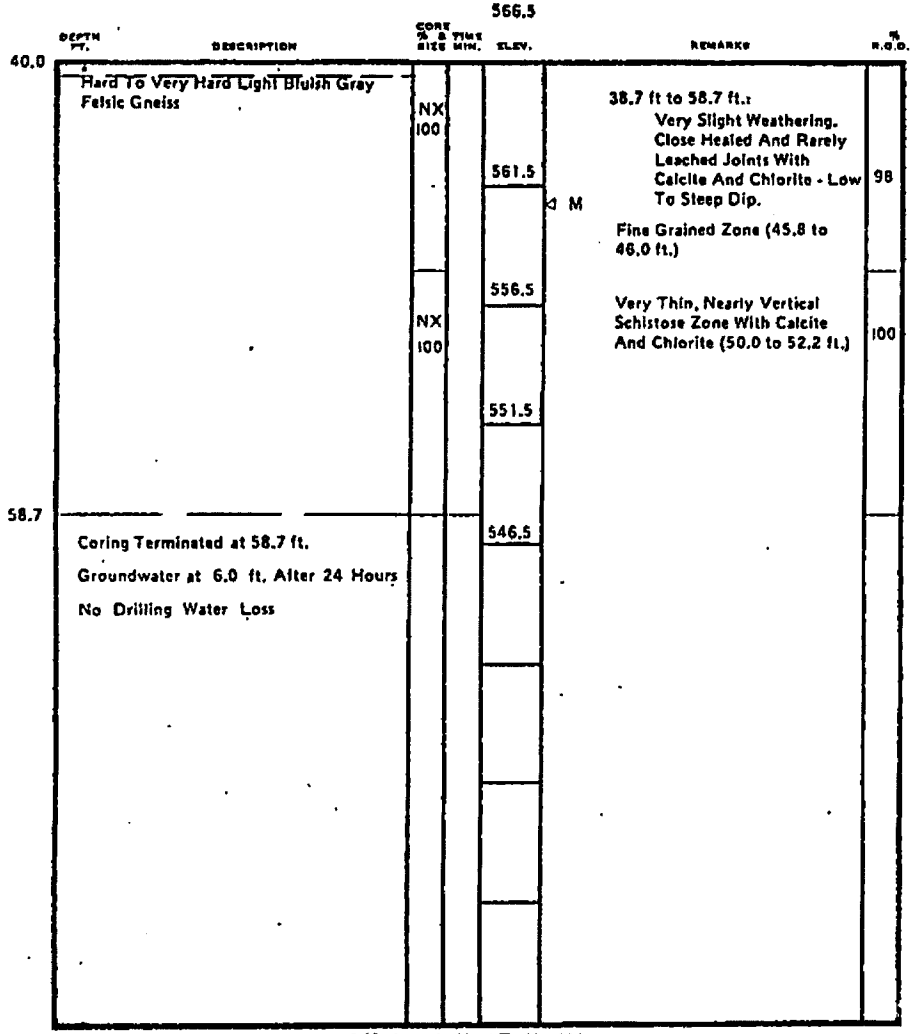
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-71
DATE DRILLED 10-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



* Moderately Hard To Hard Very Light Gray Felsic Gneiss

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

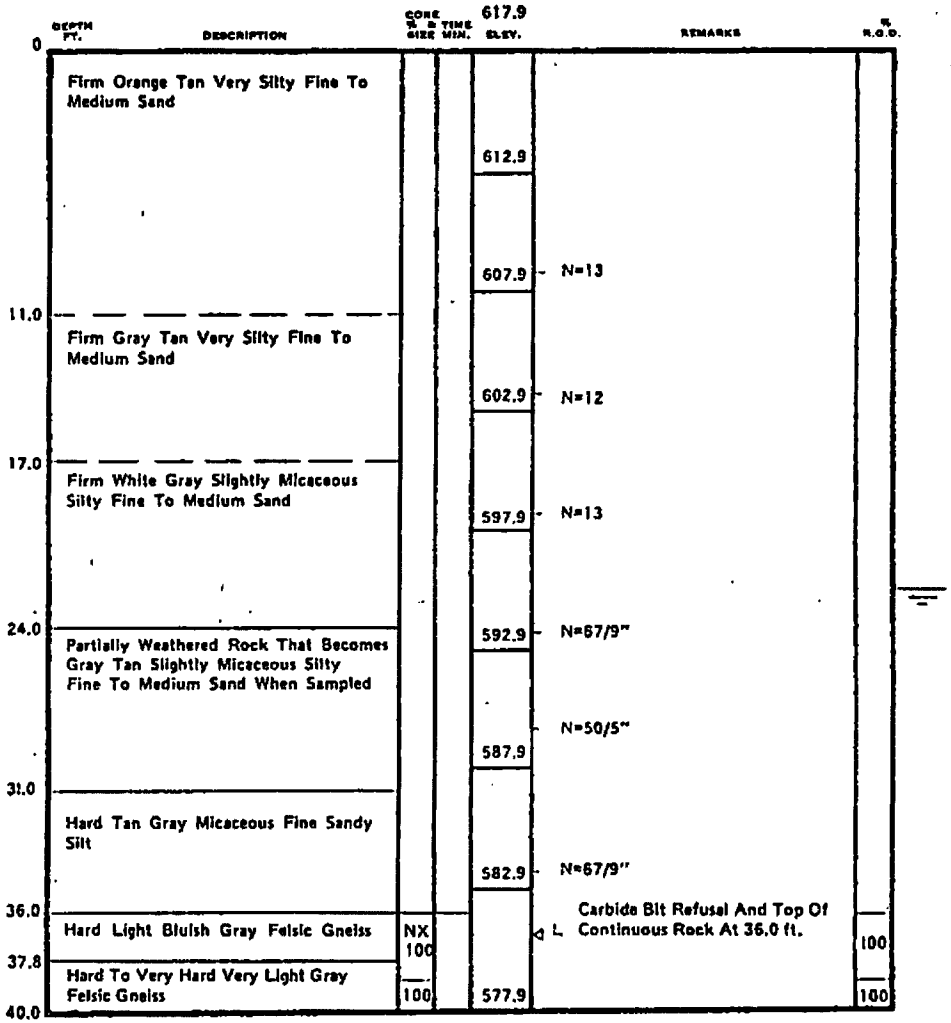
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. 8-71
DATE DRILLED 10-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

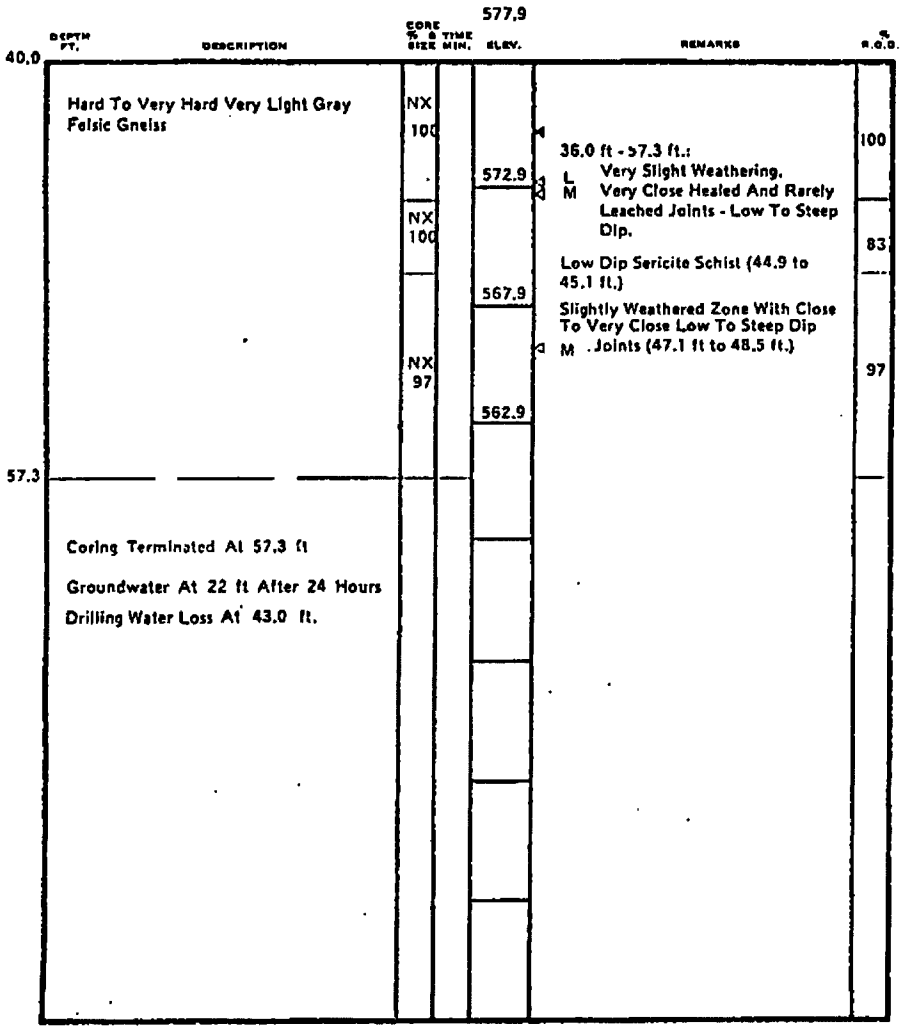
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Sheet 1 Of 2

TEST BORING RECORD

BORING NO. B-72
DATE DRILLED 10-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

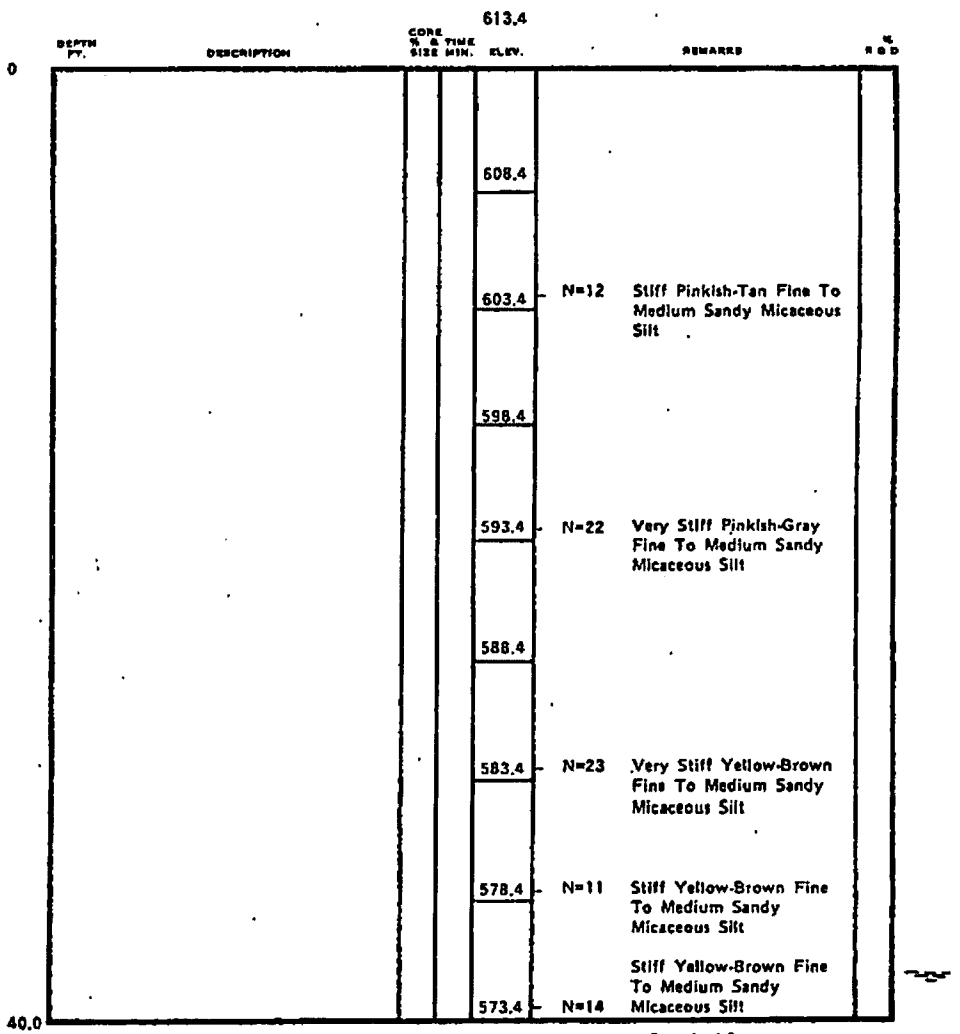
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 Of 2

TEST BORING RECORD

BORING NO. B-72
DATE DRILLED 10-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-73
DATE DRILLED 11-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	573.4 ELEV.	REMARKS	% R.Q.D.
40.0						
				568.4	N=16 Very Stiff Yellow-Brown Fine To Medium Sandy Micaceous Silt	
				563.4	N=59 Hard Light Gray Fine To Medium Sandy Micaceous Silt	
53.0	No Recovery				Carbide Bit Refusal At 53.0 ft.	
55.0	Partially Weathered Rock			558.4	53.0 ft to 78.0 ft. Cored With NQ Wire Line - No Recovery	
					N=50/2"	
				553.4		
					N=50/1" Standard Penetration At 5 foot Intervals - No Recovery	
				548.4		
					N=50/1"	
				543.4		
					N=50/1"	
				538.4		
78.0	Soft Light Olive Gray Mafic Gneiss	NQ 0			N=50/1" NW Casing To 80.0 ft.	0
80.0				533.4		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-73
DATE DRILLED 11-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	533.4 ELEV.	REMARKS	% R.Q.D.
80.0						
80.5	Medium To Moderately Hard Dark Greenish Gray Mafic Gneiss	NQ	60		78.0 ft to 98.0 ft. Moderate To Severe Weathering. Close Joints - Low To Steep Dip. Close Healed And Slightly Leached Joints - Low To Steep Dip.	46
84.0	Soft Yellowish Gray Mafic Gneiss			528.4		
			96			68
87.0	Medium Very Light Gray Felsic Gneiss				Severely Leached Epidote - Rich Zone (88.8 to 89.2 ft.)	
89.1				523.4		
	Soft To Moderately Hard Grayish Orange To Light Olive Gray Mafic Gneiss		48			22
					98.0 ft to 113.0 ft.: Moderate to Slight Weathering. Close And Very Close Healed Rarely Leached Joints With Calcite And Oxides - Low To Steep Dip.	
			96	518.4		60
98.0	Hard Grayish Green Mafic Gneiss				Close Joints - Low To Steep Dip (98.0 ft to 105.3 ft.)	
			80	513.4		
					Very Severely Weathered Zone - Probable Location Of Core Loss (102.0 to 103.8 ft.)	42
				508.4		
			90			68
				503.4		
			100		L	100
113.0	Coring Terminated At 113.0 ft.			498.4		
	Groundwater At 38.0 ft At Time Of Boring					
	No Drilling Water Loss					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

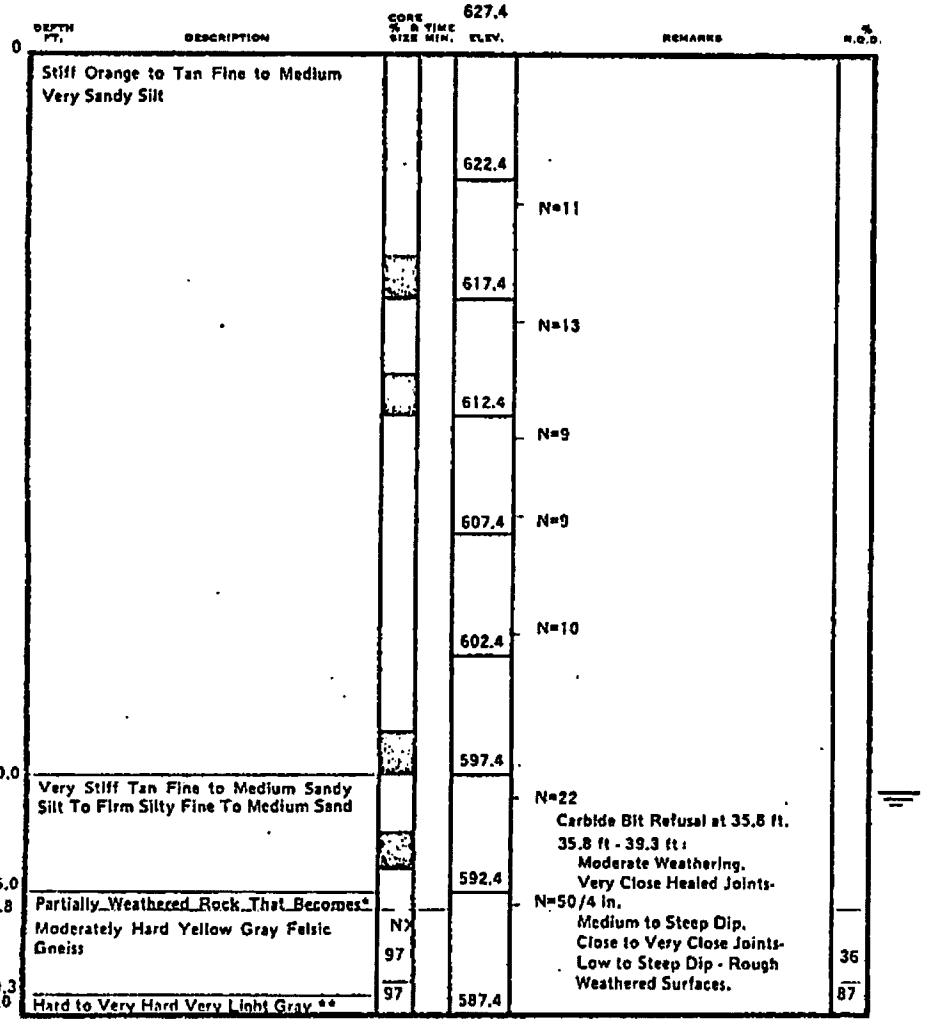
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

* Soft Light Olive Gray Mafic Gneiss

TEST BORING RECORD

BORING NO. B-73
DATE DRILLED 11-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

*Tan Gray Silty Fine to Medium Sand When Sampled
** Felsic Gneiss

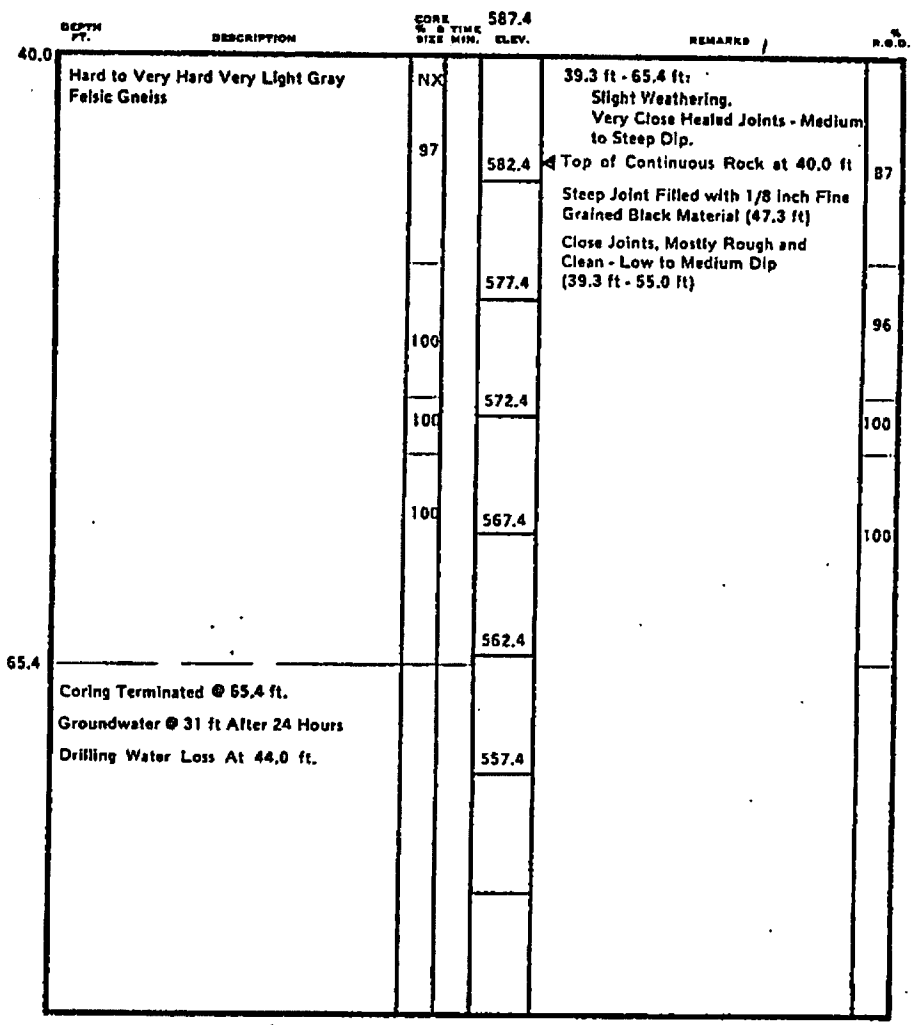
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-74
DATE DRILLED 7-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

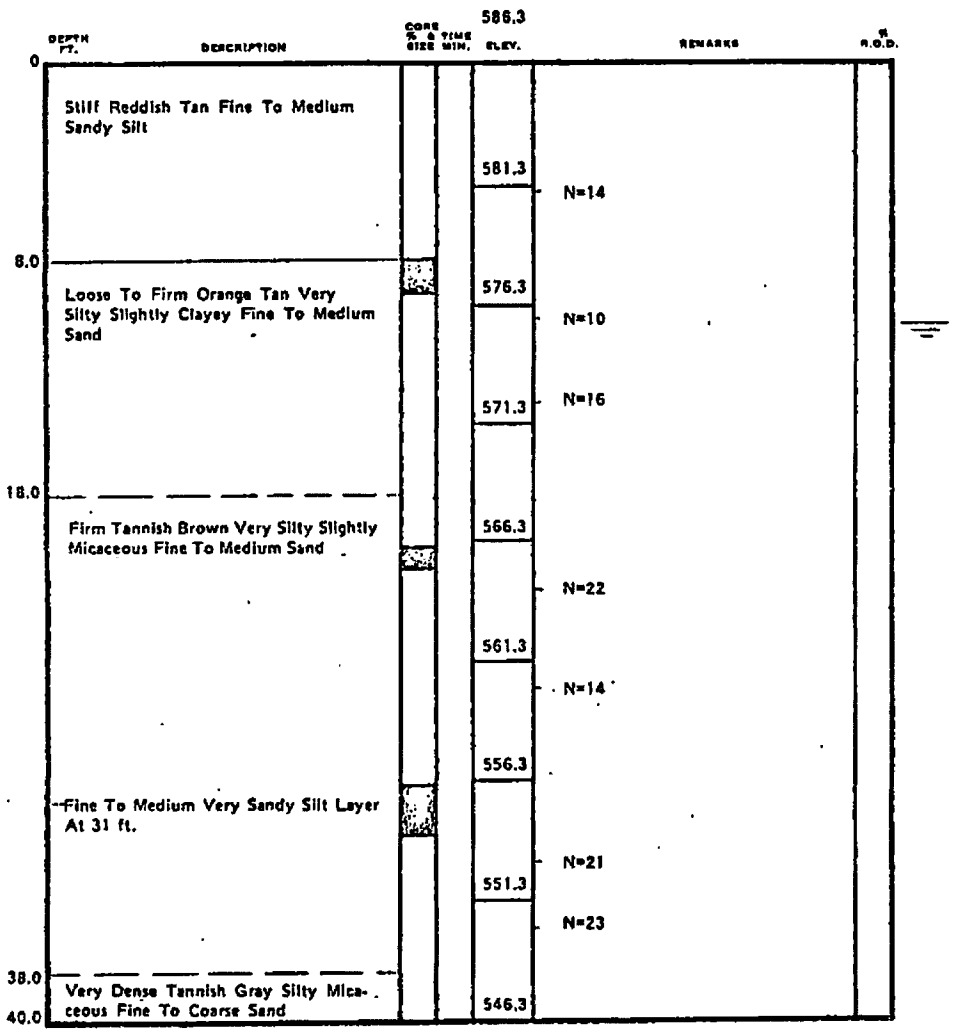
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-74
DATE DRILLED 7-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

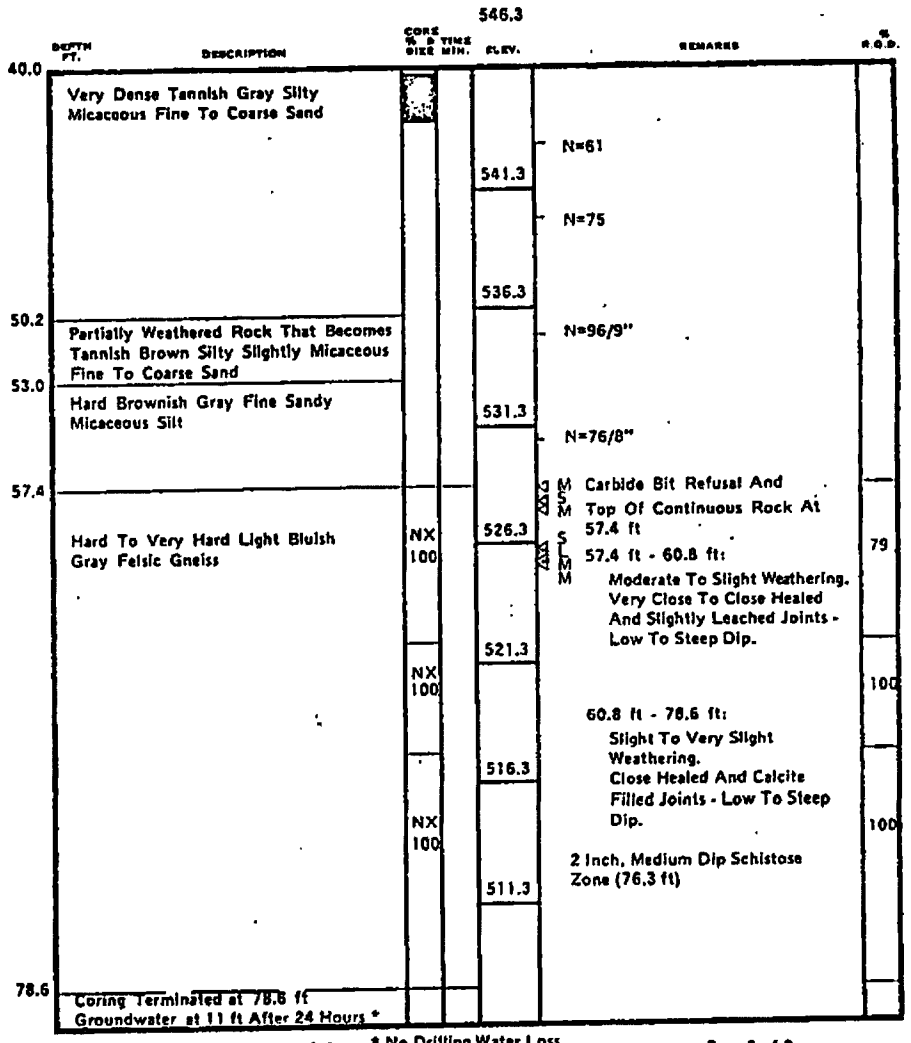
ROCK JOINT:
L = LOW DIP 0–35°
M = MED. DIP 35°–65°
S = STEEP DIP 65°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-75
DATE DRILLED 10-10-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



* No Drilling Water Loss

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

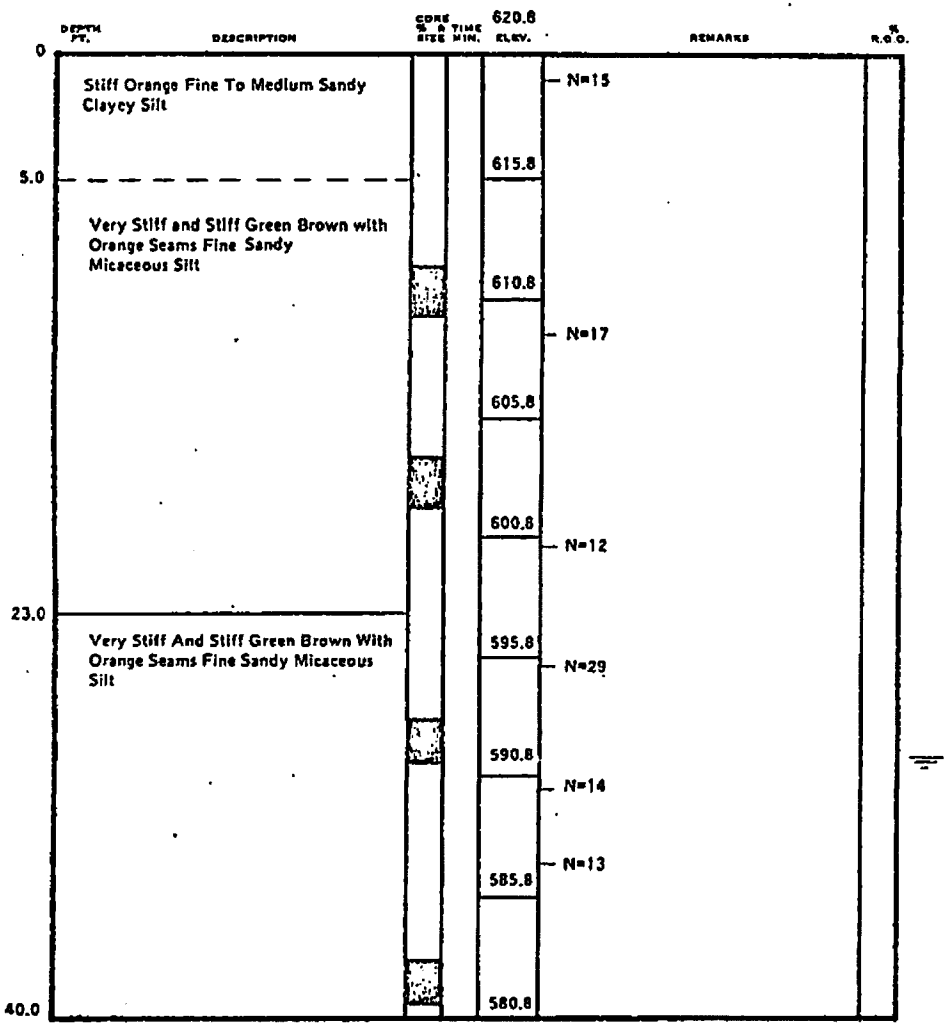
ROCK JOINT:
L = LOW DIP 0–35°
M = MED. DIP 35°–65°
S = STEEP DIP 65°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-75
DATE DRILLED 10-10-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

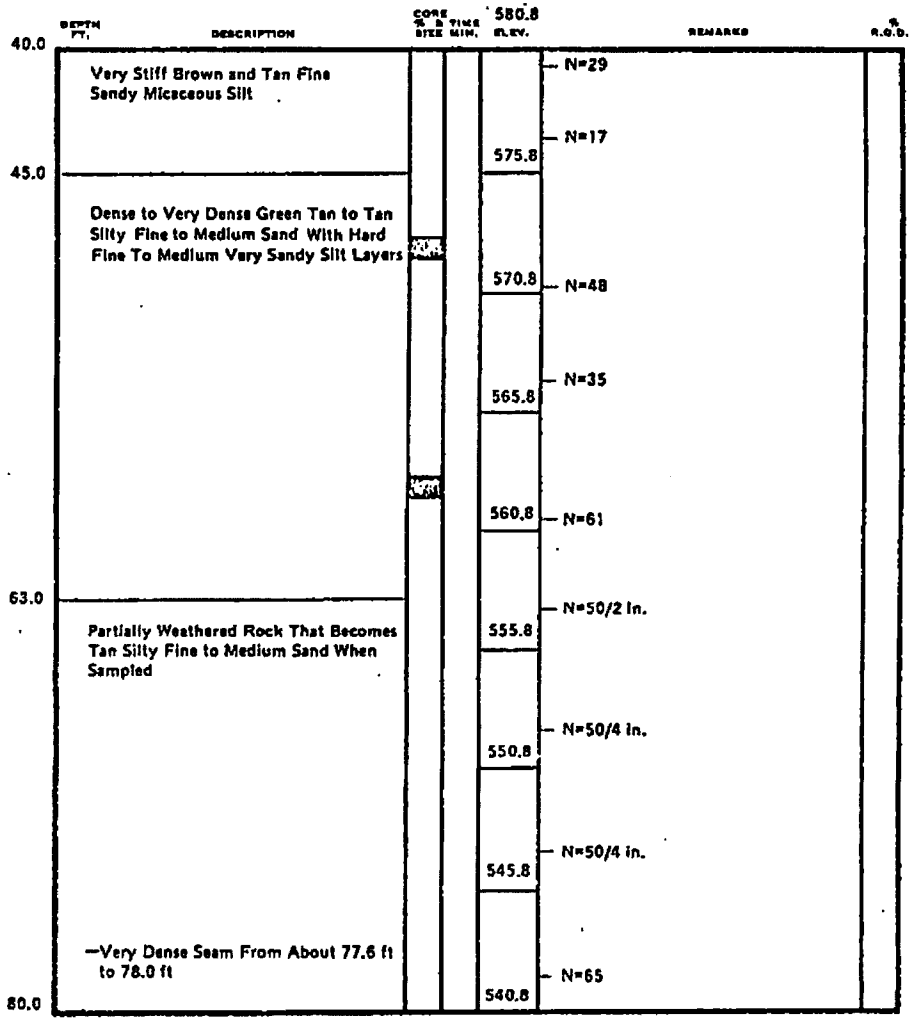
ROCK JOINTS
L = LOW DIP 0–35°
M = MED. DIP 35°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-77
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

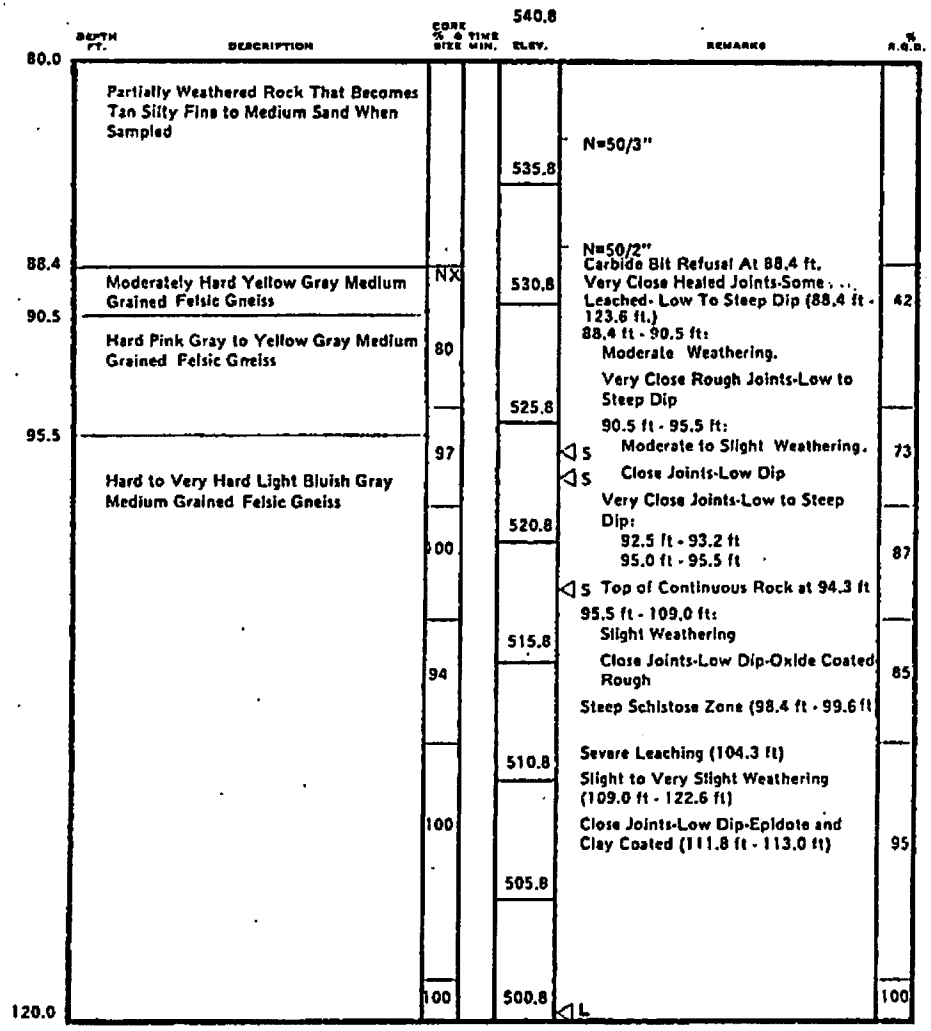
ROCK JOINTS
L = LOW DIP 0–35°
M = MED. DIP 35°–60°
S = STEEP DIP 60°–90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-77
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



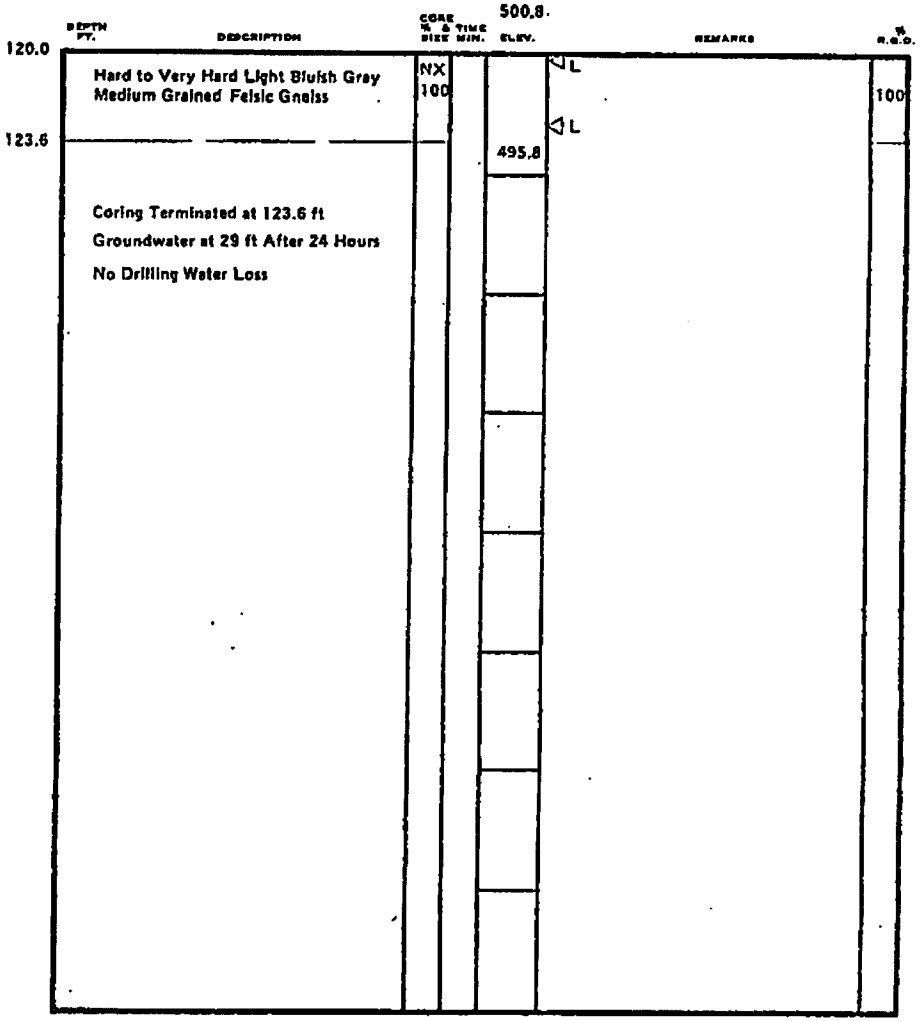
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-77
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



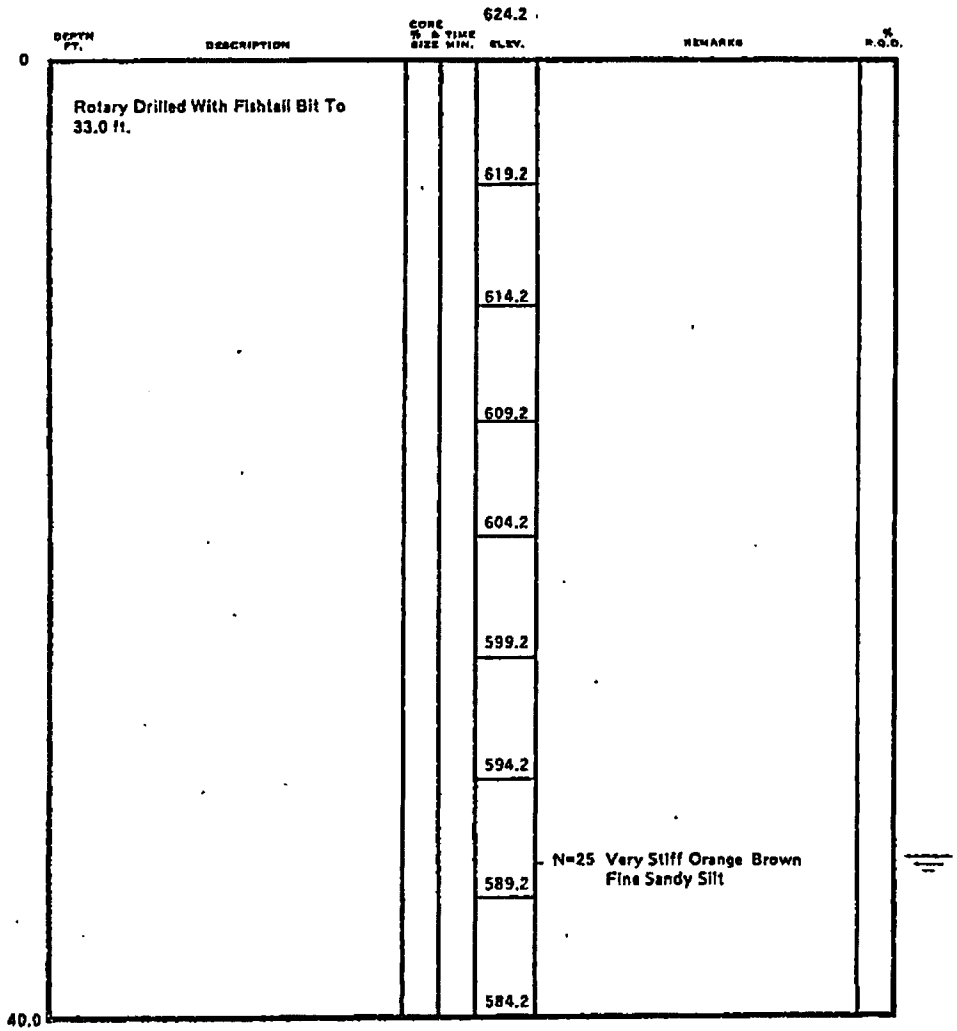
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-77
DATE DRILLED 7-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

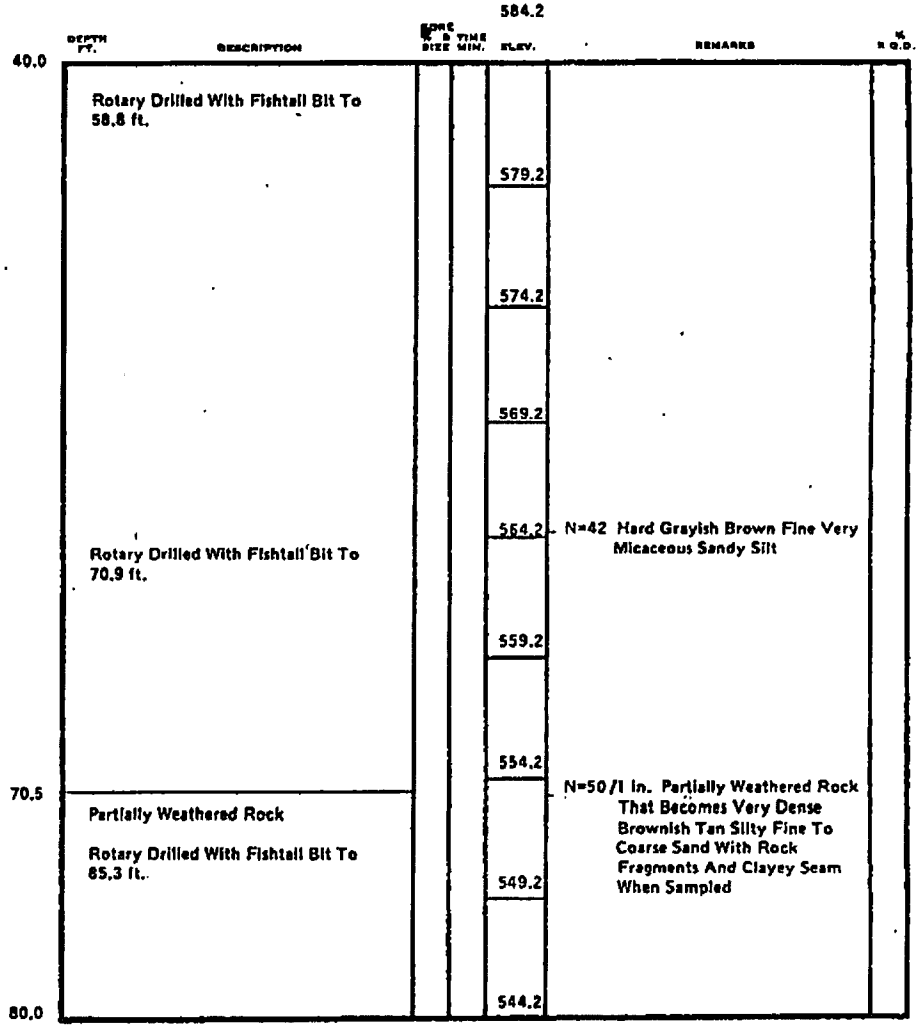
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-77AP
DATE DRILLED 9-28-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

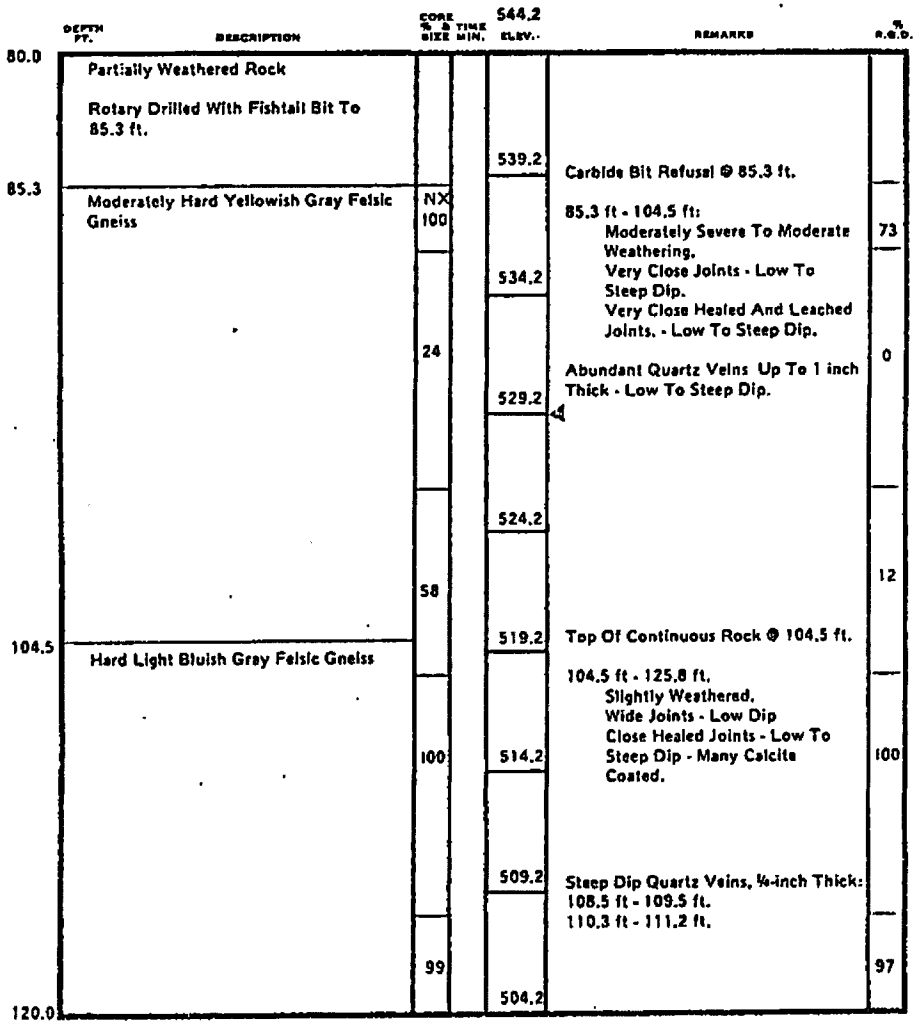
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-77AP
DATE DRILLED 9-28-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

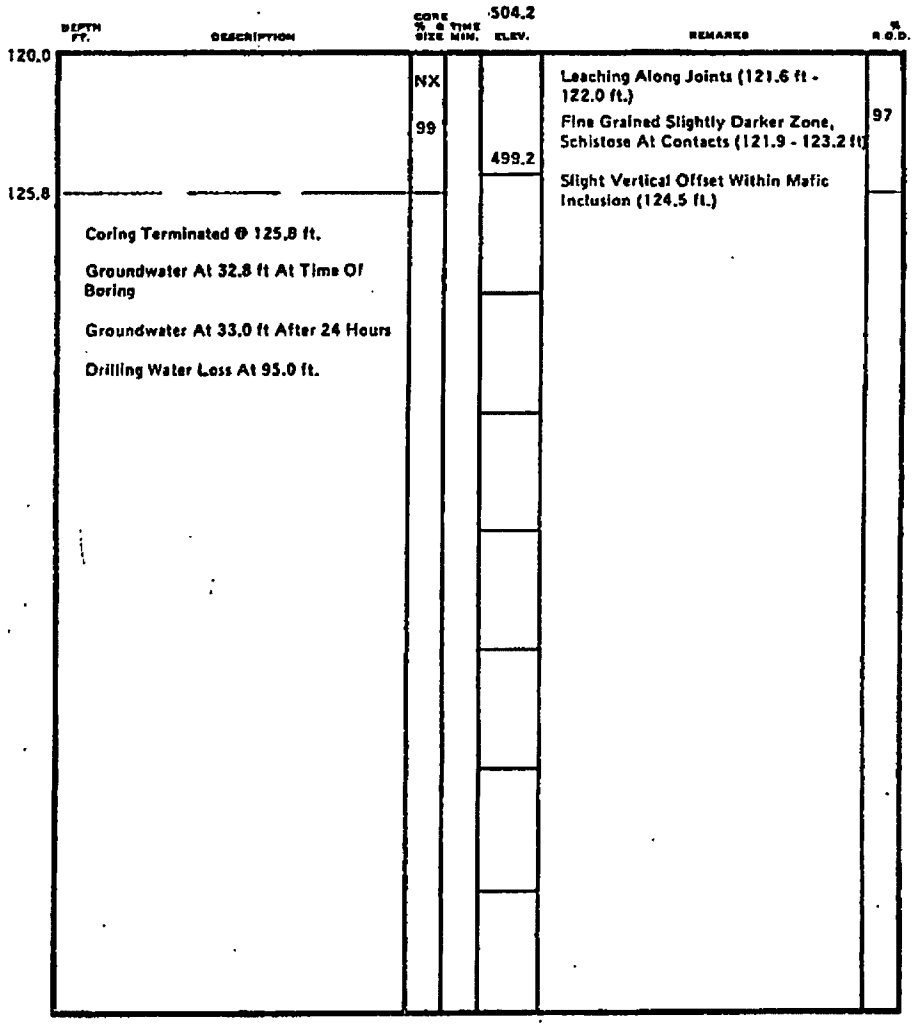
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-77AP
DATE DRILLED 9-28-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

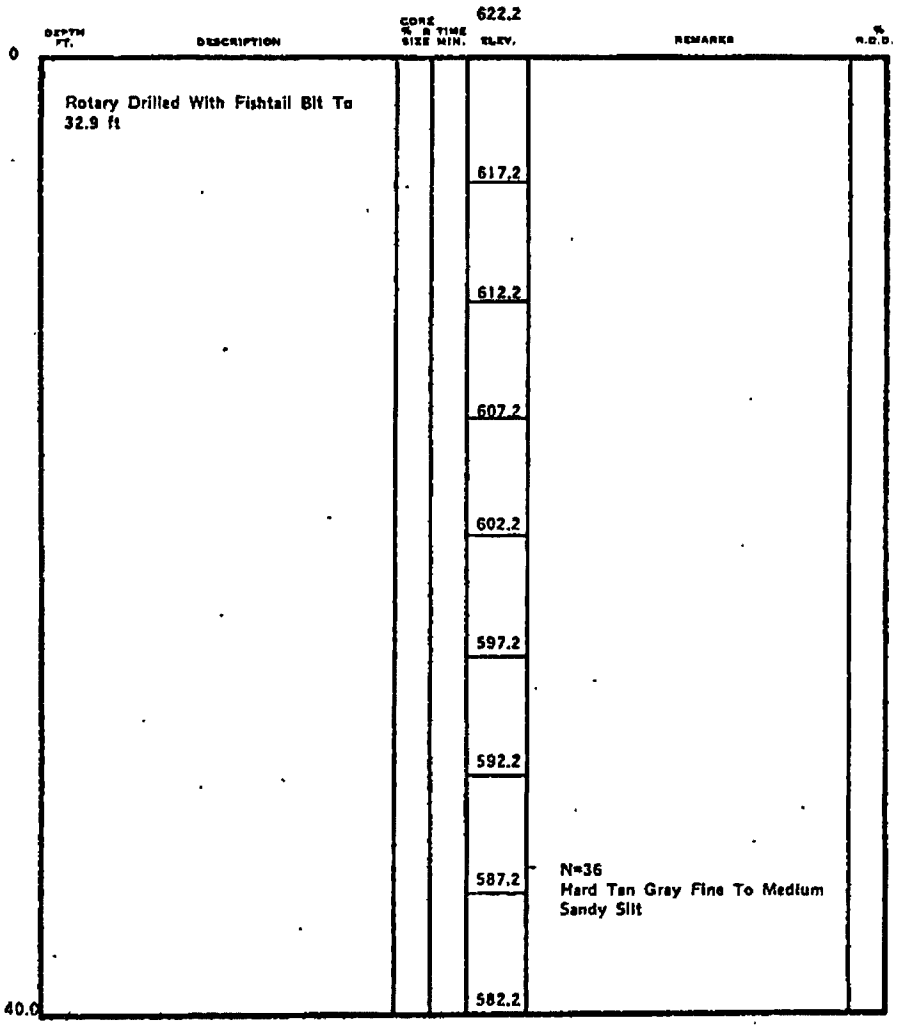
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-77AP
DATE DRILLED 9-28-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

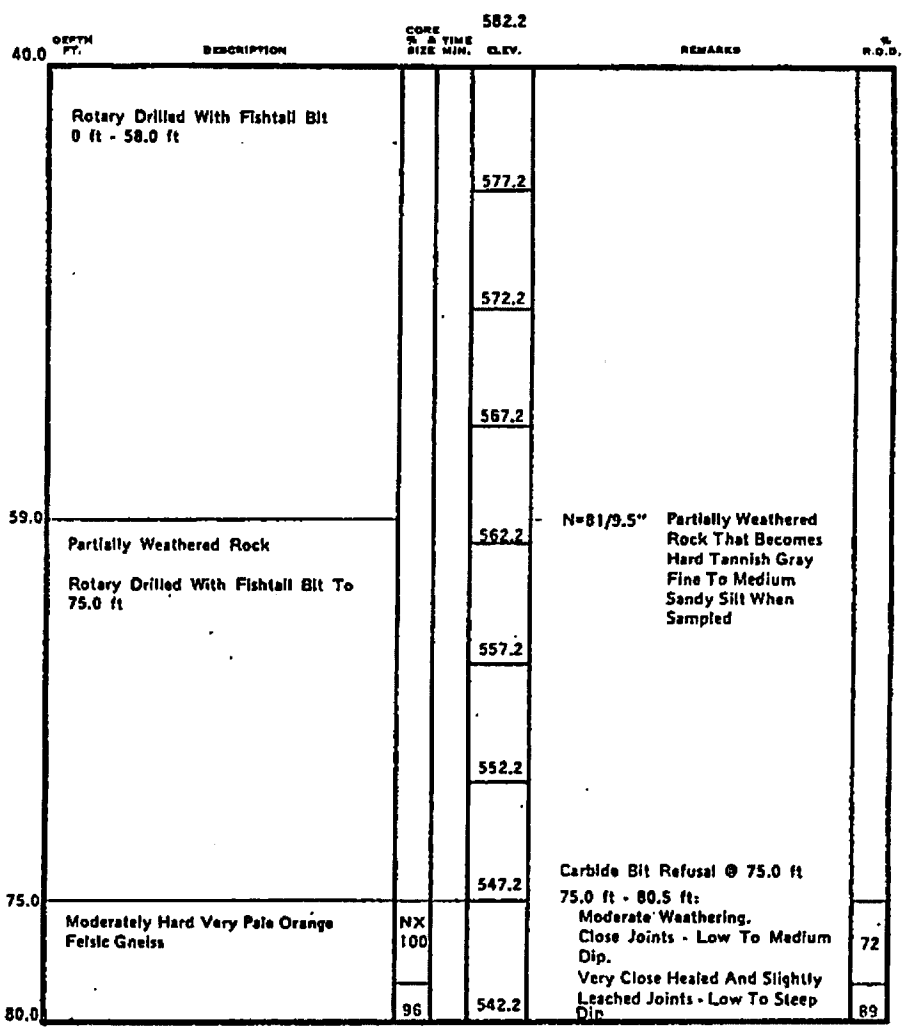
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-77BP
DATE DRILLED 10-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

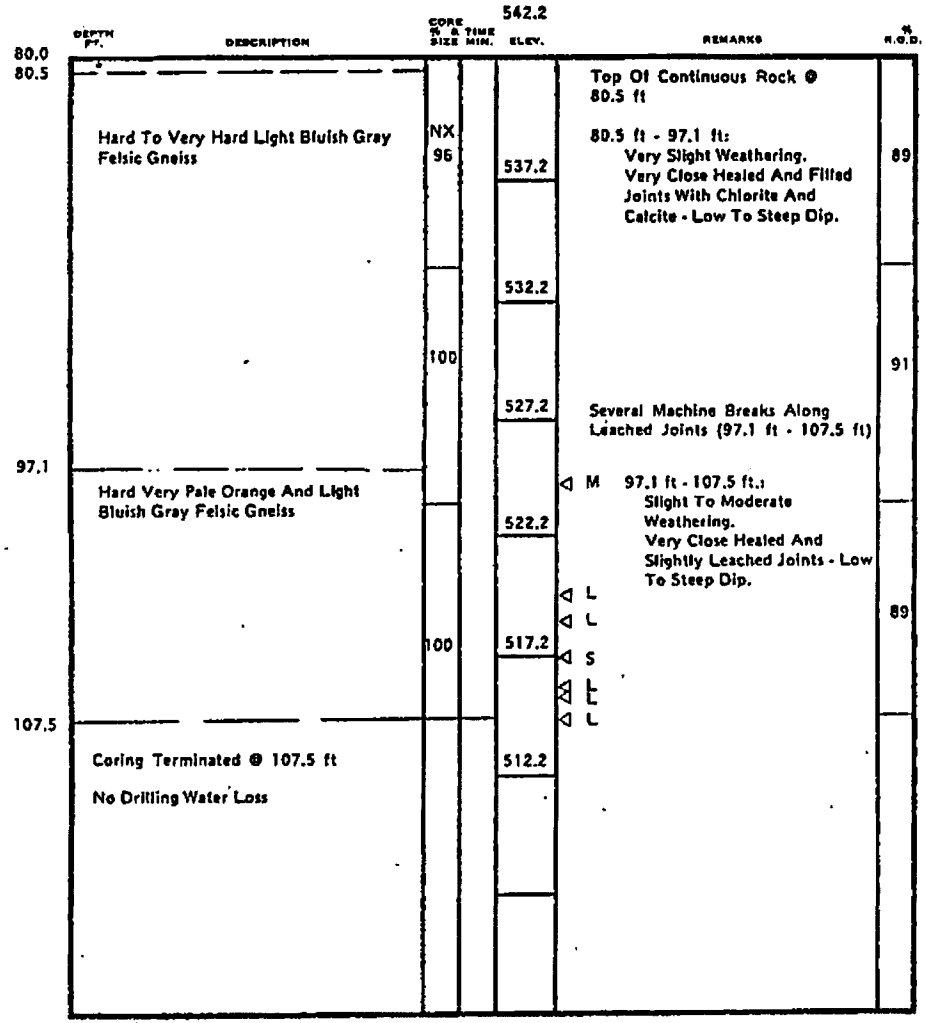
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-77BP
DATE DRILLED 10-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

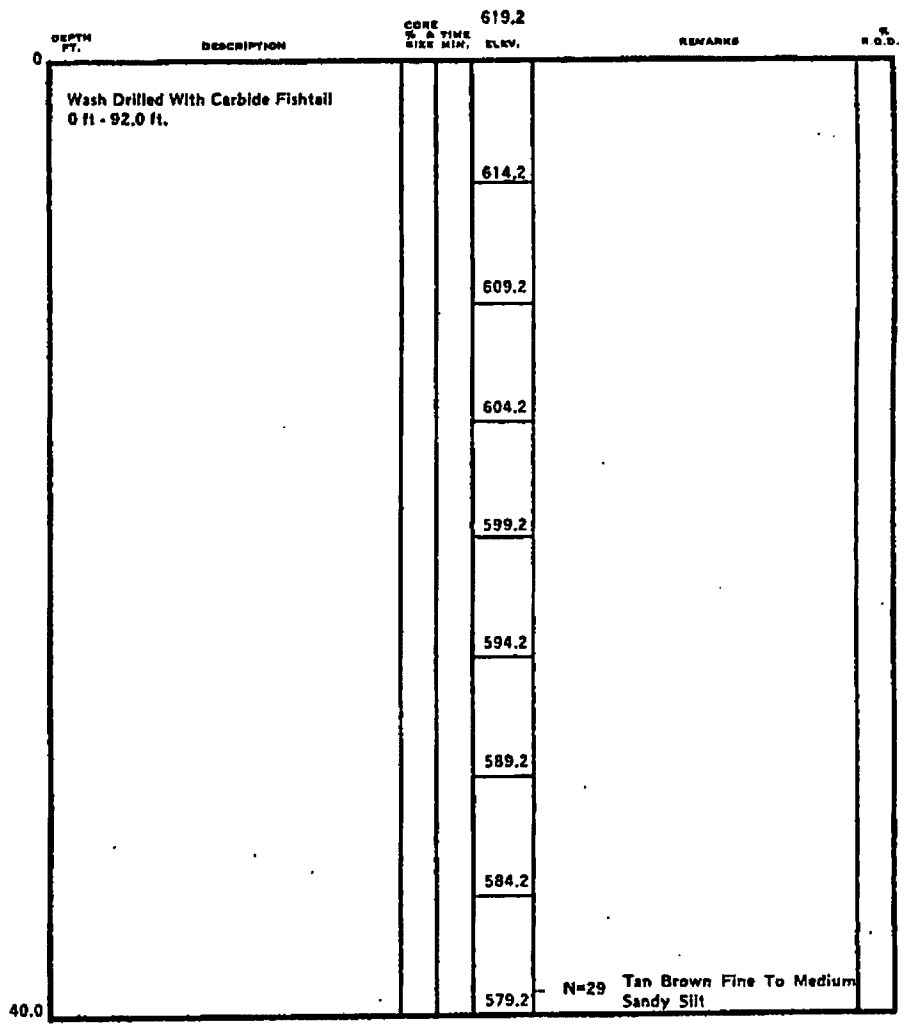
*Moderately Hard Light Olive Gray Felsic Gneiss

Page 3 of 3

TEST BORING RECORD

BORING NO. B-77BP
DATE DRILLED 10-1-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

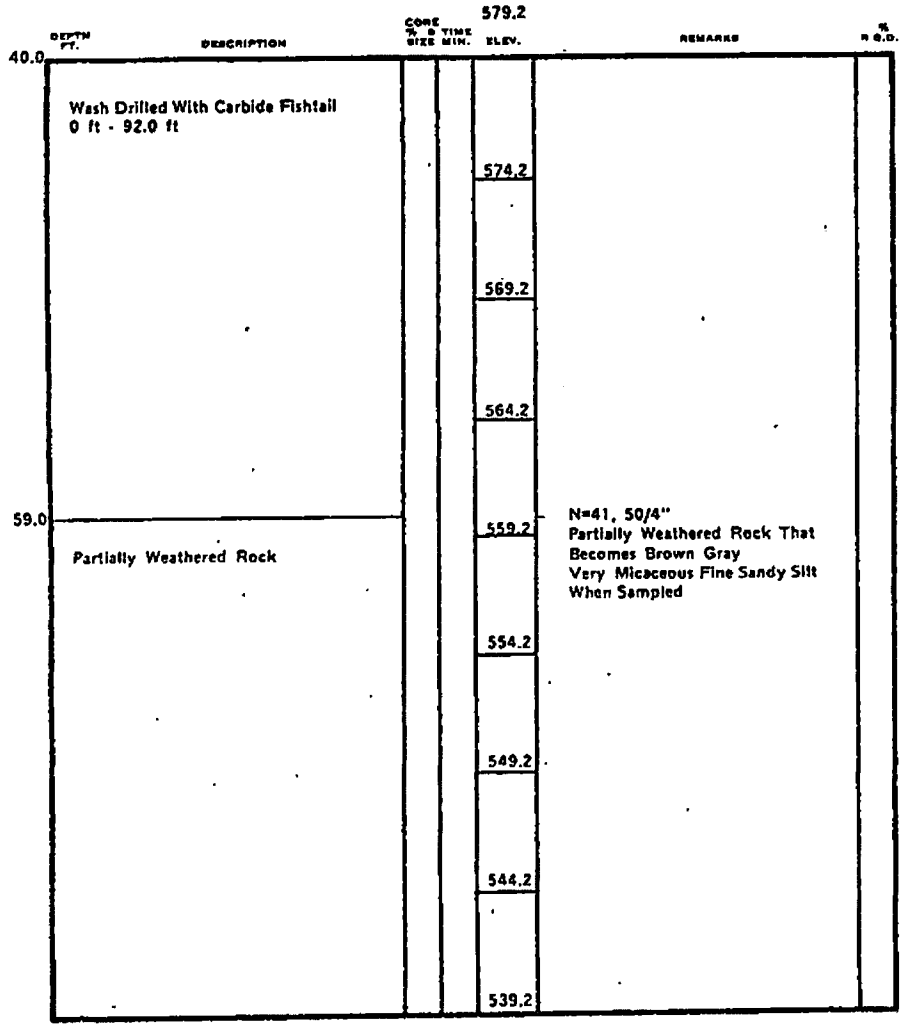
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-77CP
DATE DRILLED 10-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

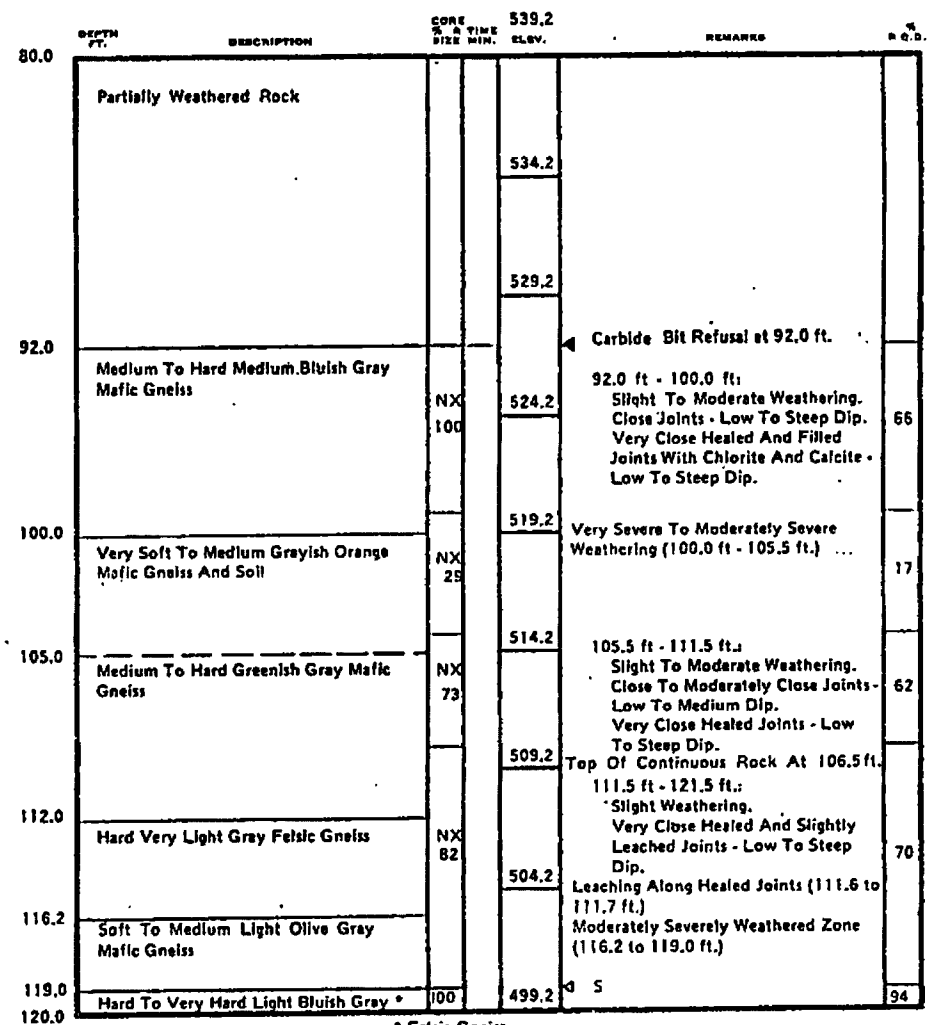
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-77CP
DATE DRILLED 10-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

* Felsic Gneiss

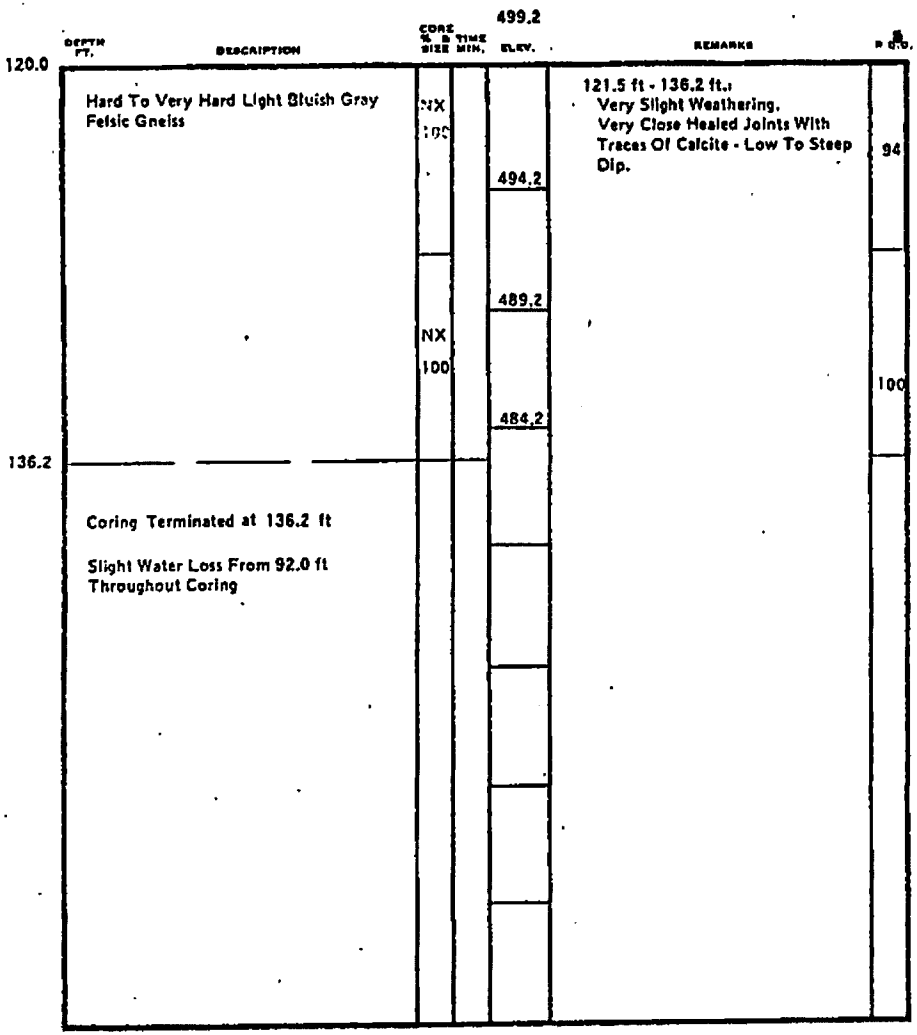
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-77CP
DATE DRILLED 10-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

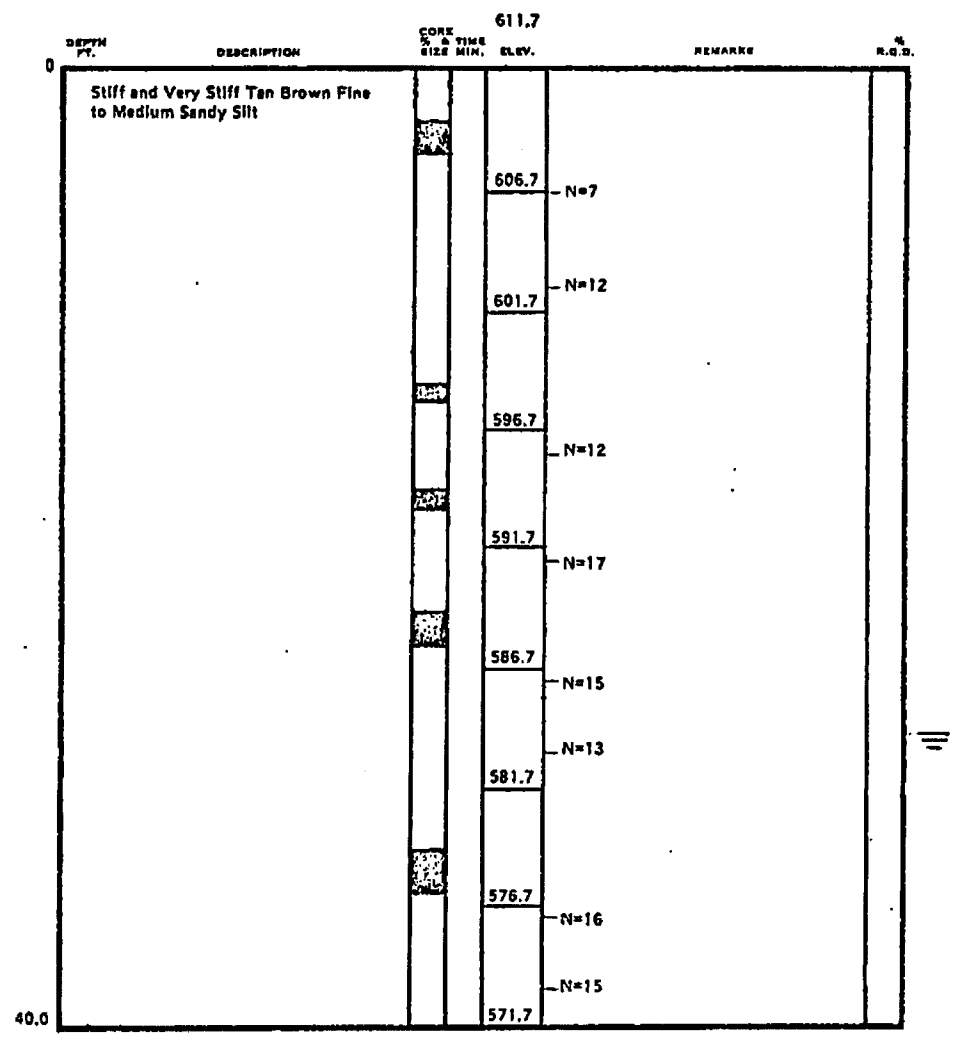
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-77CP
DATE DRILLED 10-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

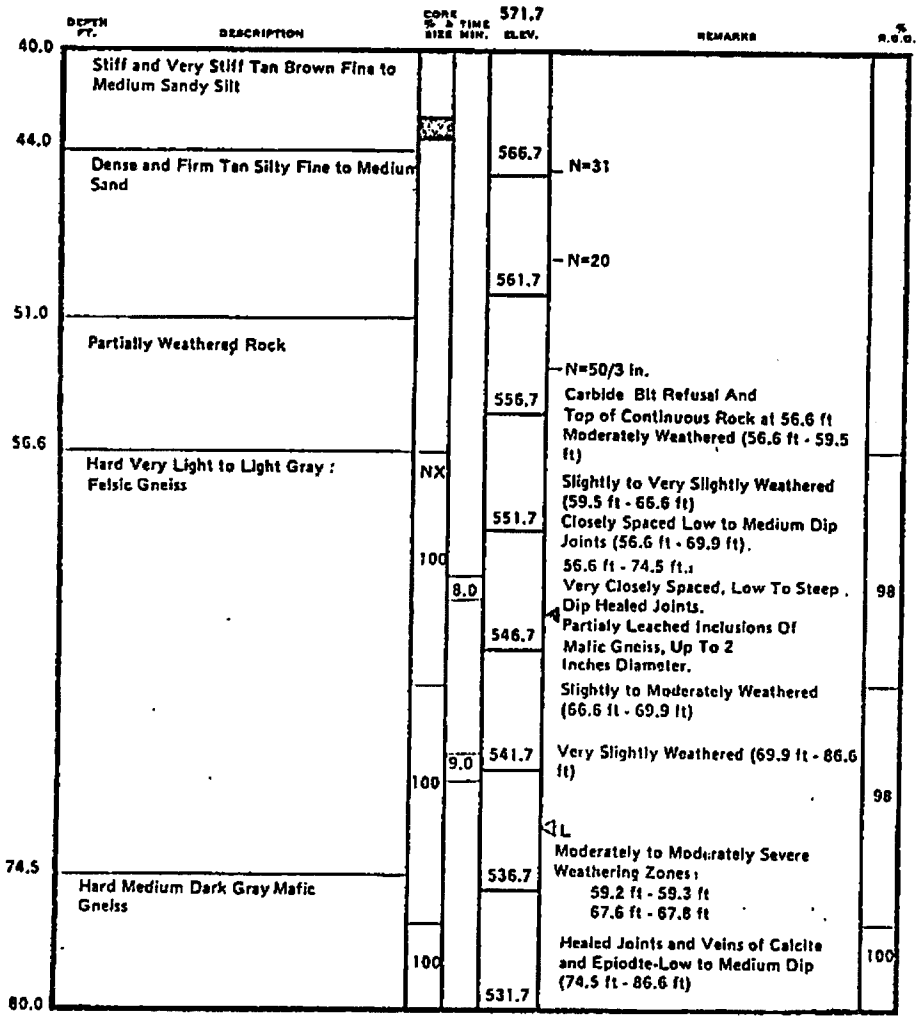
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-78
DATE DRILLED 7-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

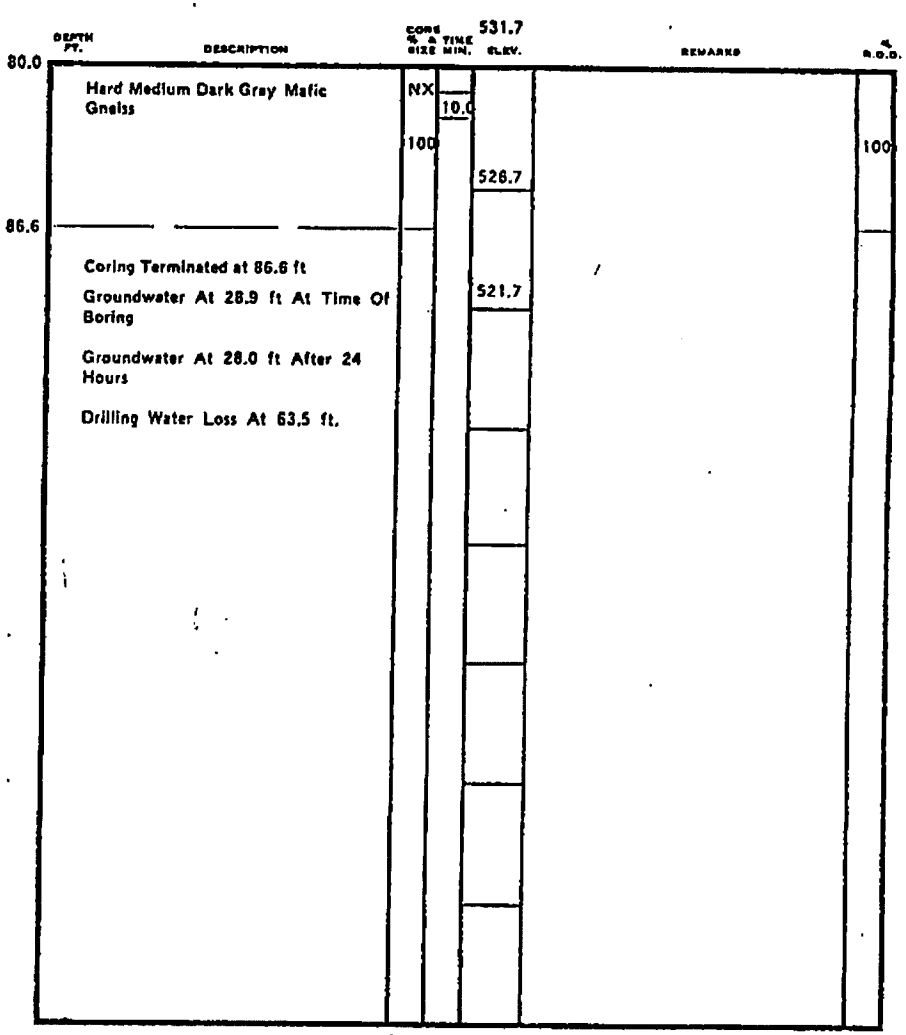
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-78
DATE DRILLED 7-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

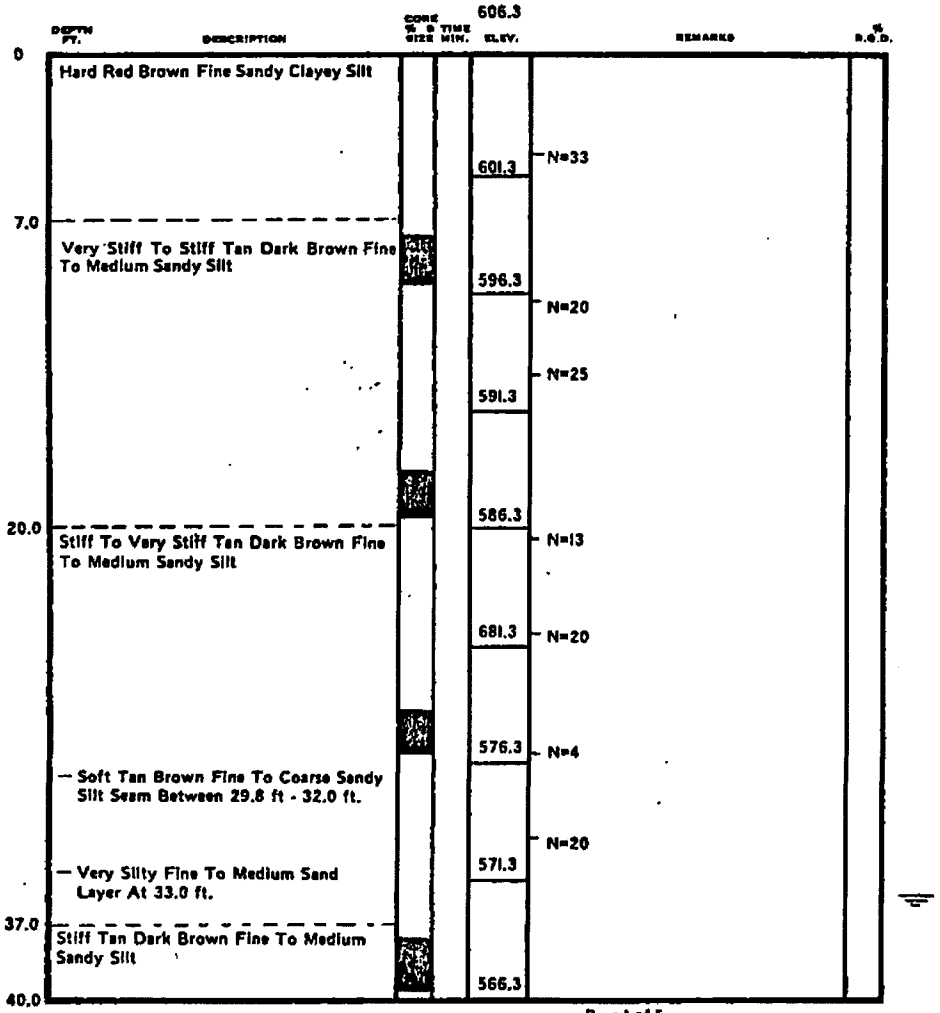
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-78
DATE DRILLED 7-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

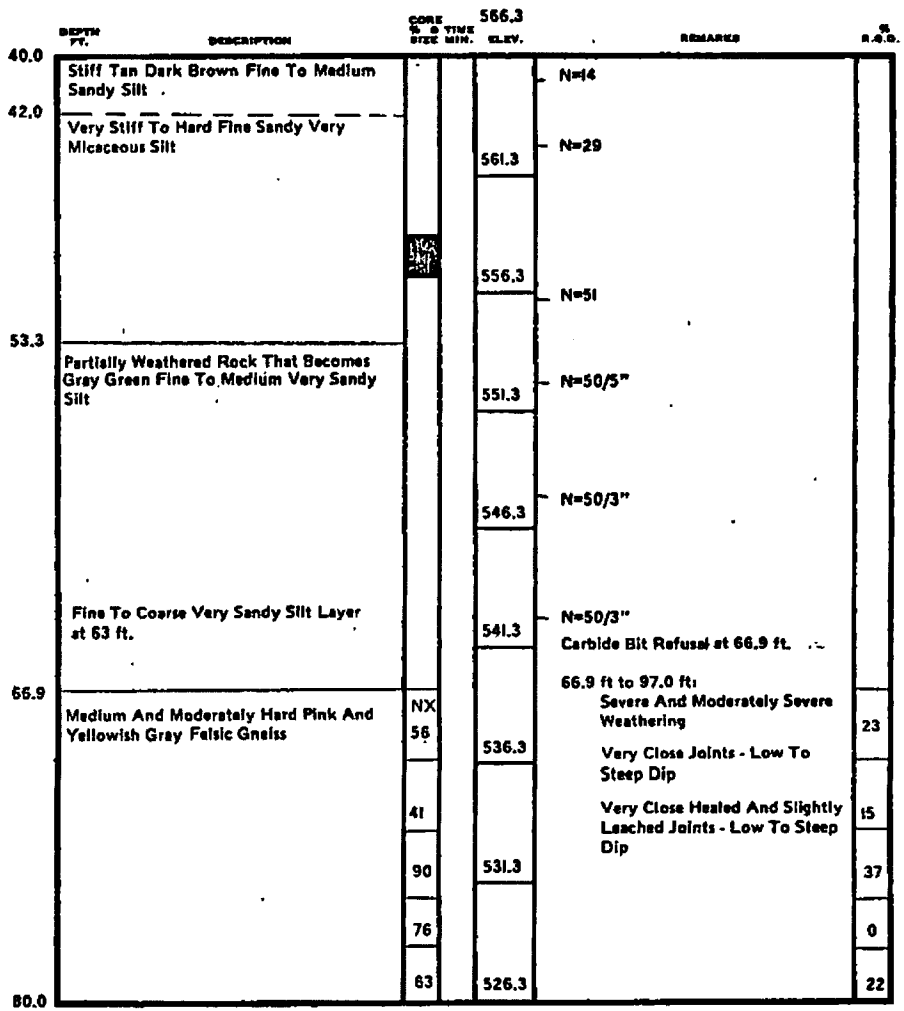
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-79
DATE DRILLED 7-31-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-79
DATE DRILLED 7-31-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	526.3 ELEV.	REMARKS	% R.Q.D.
80.0	Medium And Moderately Hard Pink And Yellowish Gray Felsic Gneiss	NX	63			22
		NX	91	521.3		47
			70	516.3		0
			68	511.3	Top of Continuous Rock At 97.0 ft	28
97.0	Hard Bluish Gray Felsic Gneiss		93		97.0 - 107.0 ft: Slight Weathering. Close Joints - Medium Dip. Close Healed Joints - Partly Leached - Low to Steep Dip.	63
			97	506.3		84
				501.3		
107.0	Moderately Hard Pinkish Gray Felsic Gneiss			496.3	107.0 - 112.5 ft: Moderate Weathering Very Close Joints - Low To Steep Dip	70
110.5	Moderately Hard To Hard Pinkish Gray Felsic Gneiss		92		Very Close Spaced Healed Joints - Partly Leached - Low To Steep Dip	
114.0	Hard To Very Hard Light Blue Gray Felsic Gneiss			491.3	◁L 110.5 - 114.0 ft: Slight To Moderate Weathering. ◁M Close Joints - Low To Steep Dip - Oxide Coated - Rough. Very Close Healed Joints - Low To Steep Dip.	
117.5	Hard Very Light Gray Felsic Gneiss		97	486.3	114.0-117.5 ft. *	75
120.0					* Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip.	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-79
DATE DRILLED 7-31-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	486.3 ELEV.	REMARKS	% R.Q.D.
120.0	Hard Very Light Gray Felsic Gneiss	NX	97	481.3	117.5 - 140.5 ft: Slight To Moderate Weathering. Close And Very Close Joints - Calcite, Oxide Or Epidote Coated - Mostly Rough - Low To Steep Dip. Very Close Healed Joints - Some Leached - Low To Steep Dip.	75
			95	476.3		57
					Soft, Very Severely Weathered, Biotite-Rich Zone (133.7 - 134.0 ft)	
			88	471.3		55
140.5	Very Soft To Medium Light Olive Gray Schistose Biotite-Rich Felsic Gneiss			466.3	140.5 - 143.7 ft: Very Severe To Moderately Severe Weathering. Close Joints - Medium To Steep Dip. Very Close Healed Joints - Steep Dip.	
143.7	Medium To Moderately Hard Very Light Gray Felsic Gneiss		87	461.3	143.7 - 148.5 ft: Moderately Severe Weathering. Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip.	0
148.5	Hard To Very Hard Light Bluish Gray Felsic Gneiss		96	456.3	◁M Slickensided Zone With ◁S Calcite, Epidote And Dendrites (150.5 ft.)	73
			98	451.3	148.5-173.0 ft: ◁S Slight To Very Slight Weathering. Very Close Healed Joints- Calcite And Epidote. Close And Moderately Close Joints - Calcite, Epidote And Clay Coating - Low To *	98
160.0				446.3		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

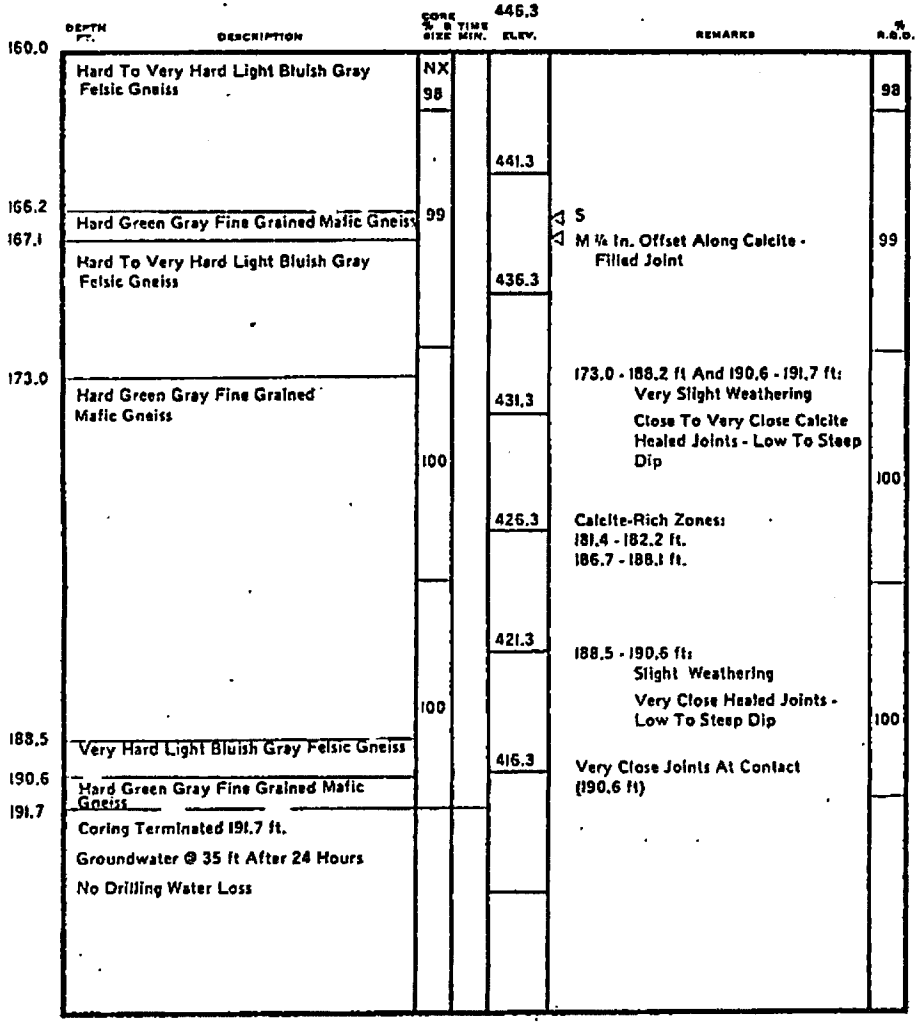
◁ ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

* Medium Dip.

TEST BORING RECORD

BORING NO. B-79
DATE DRILLED 7-31-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

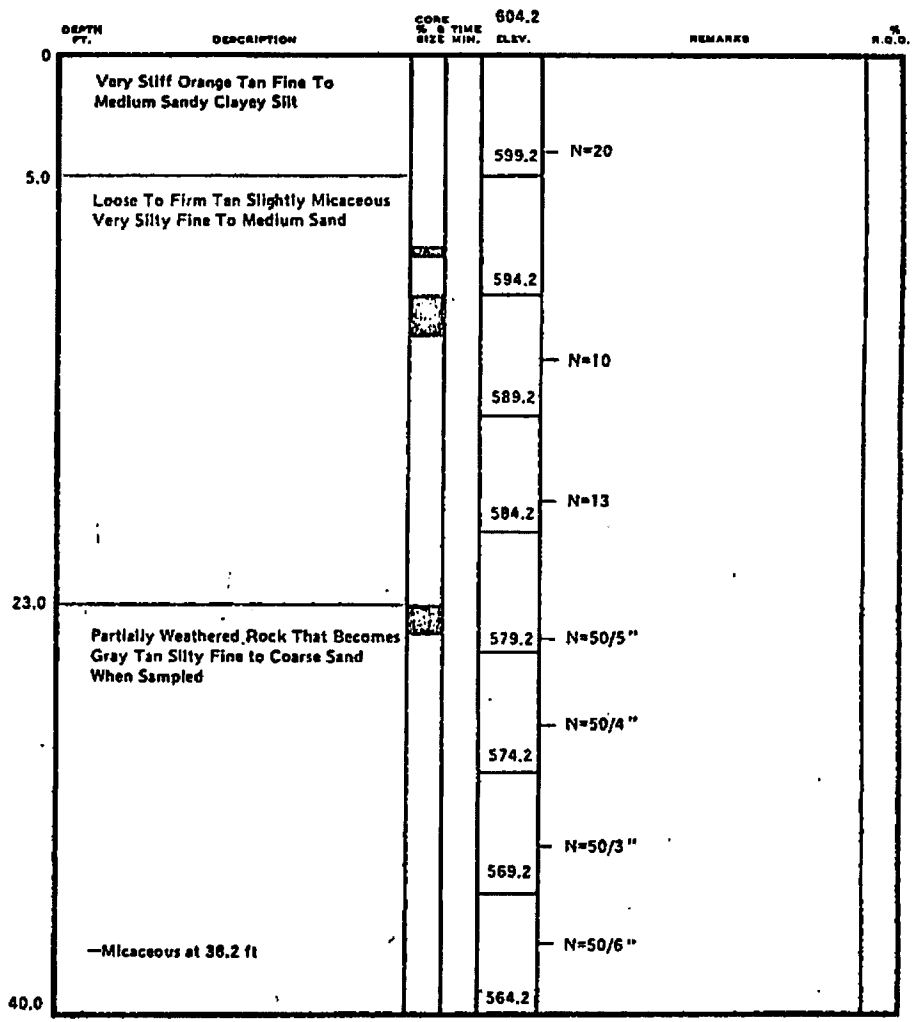
ROCK JOINT:
L = LOW DIP 0°-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-79
DATE DRILLED 7-31-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

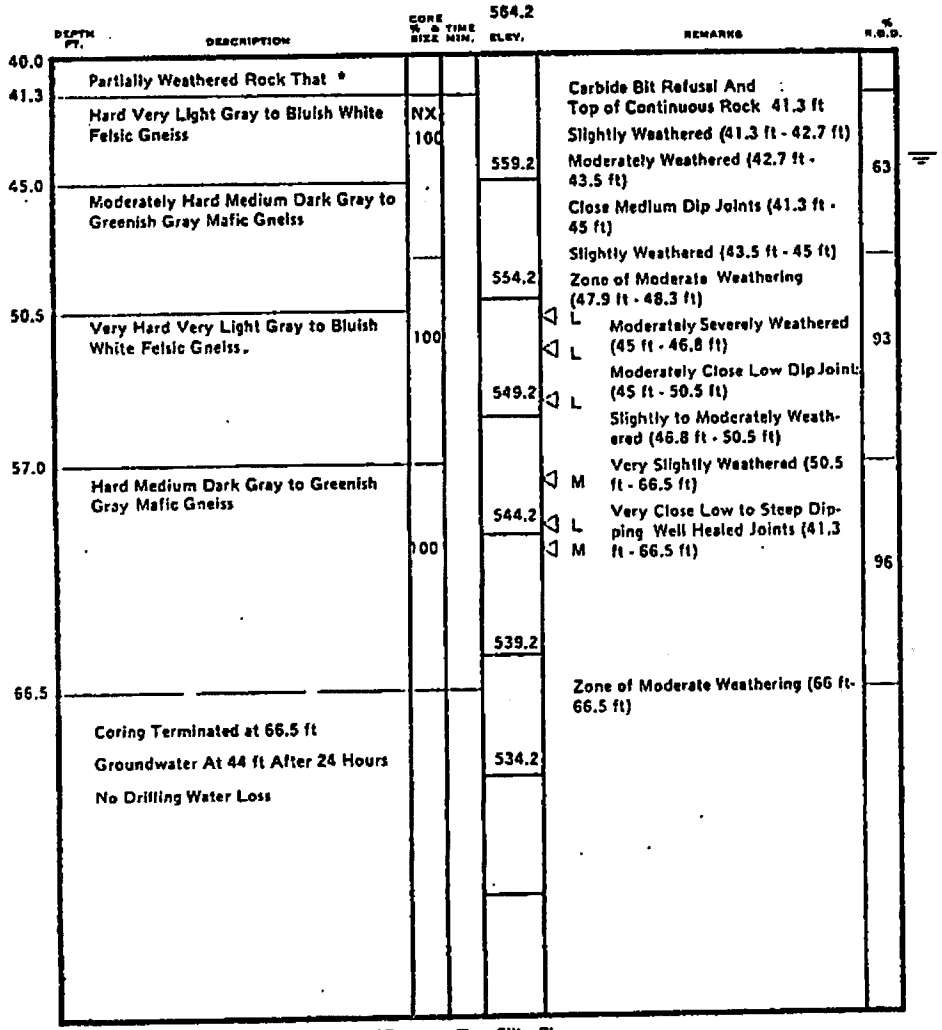
ROCK JOINT:
L = LOW DIP 0°-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-80
DATE DRILLED 7-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



*Becomes Tan Silty Fine to Medium Sand When Sampled

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[34]: ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

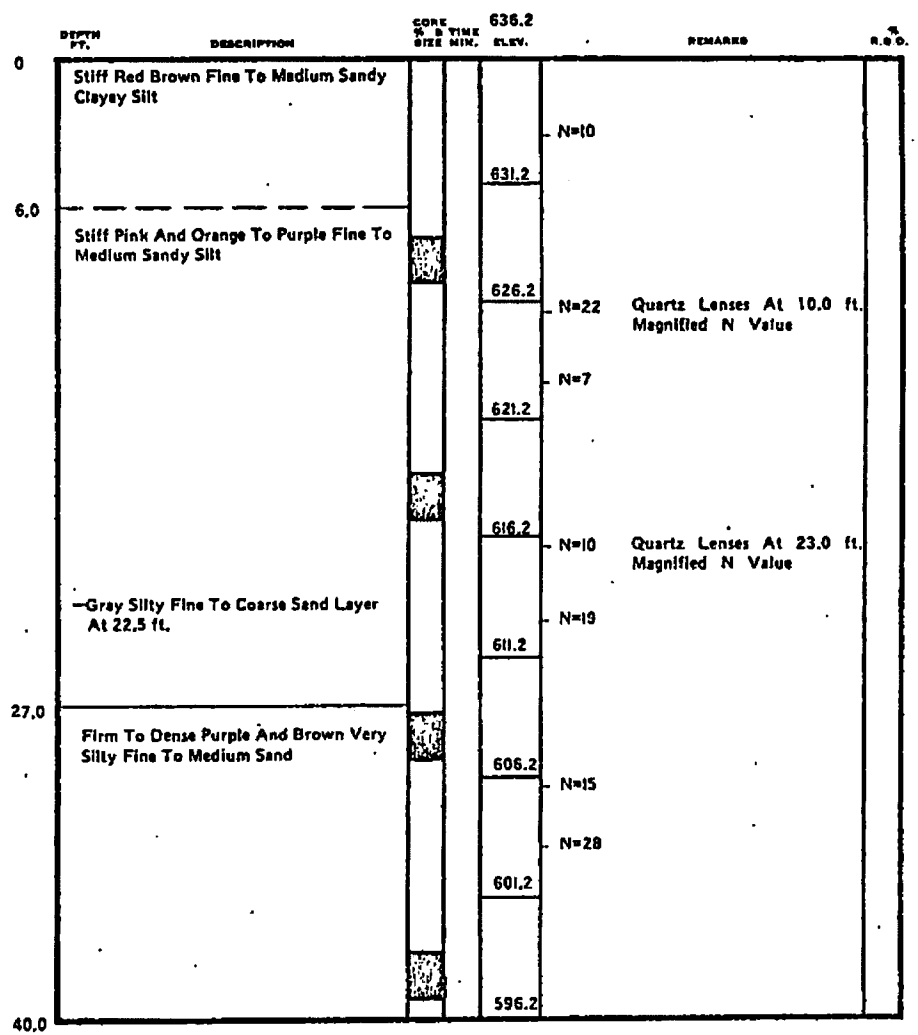
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-80
DATE DRILLED 7-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[34]: ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

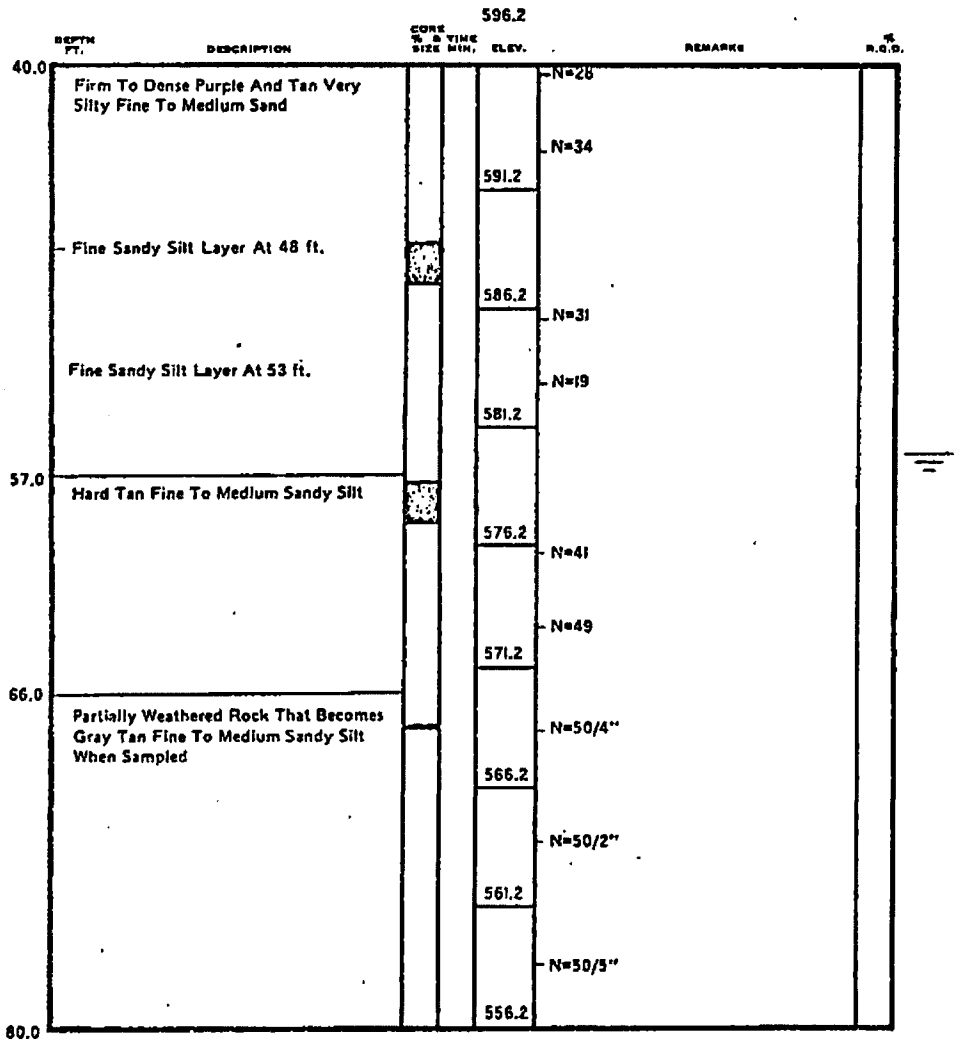
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-82
DATE DRILLED 8-15-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[50]/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

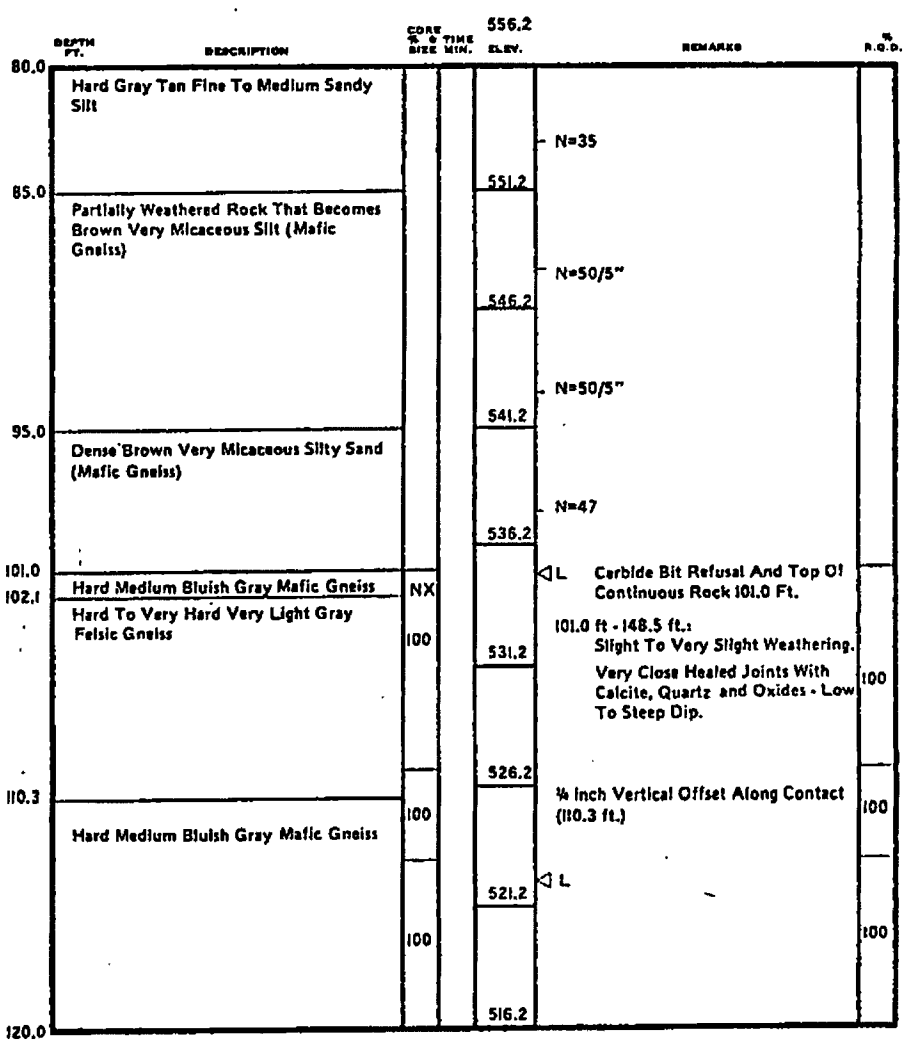
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-82
DATE DRILLED 8-15-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[50]/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

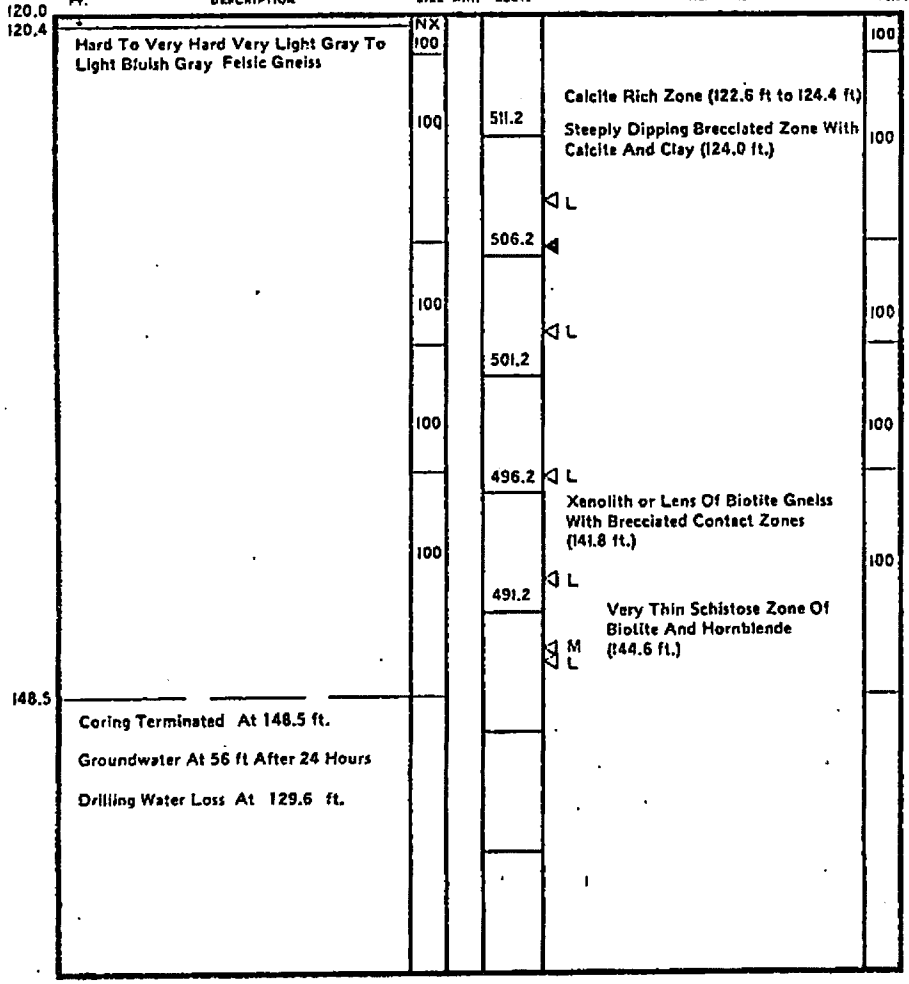
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-82
DATE DRILLED 8-15-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

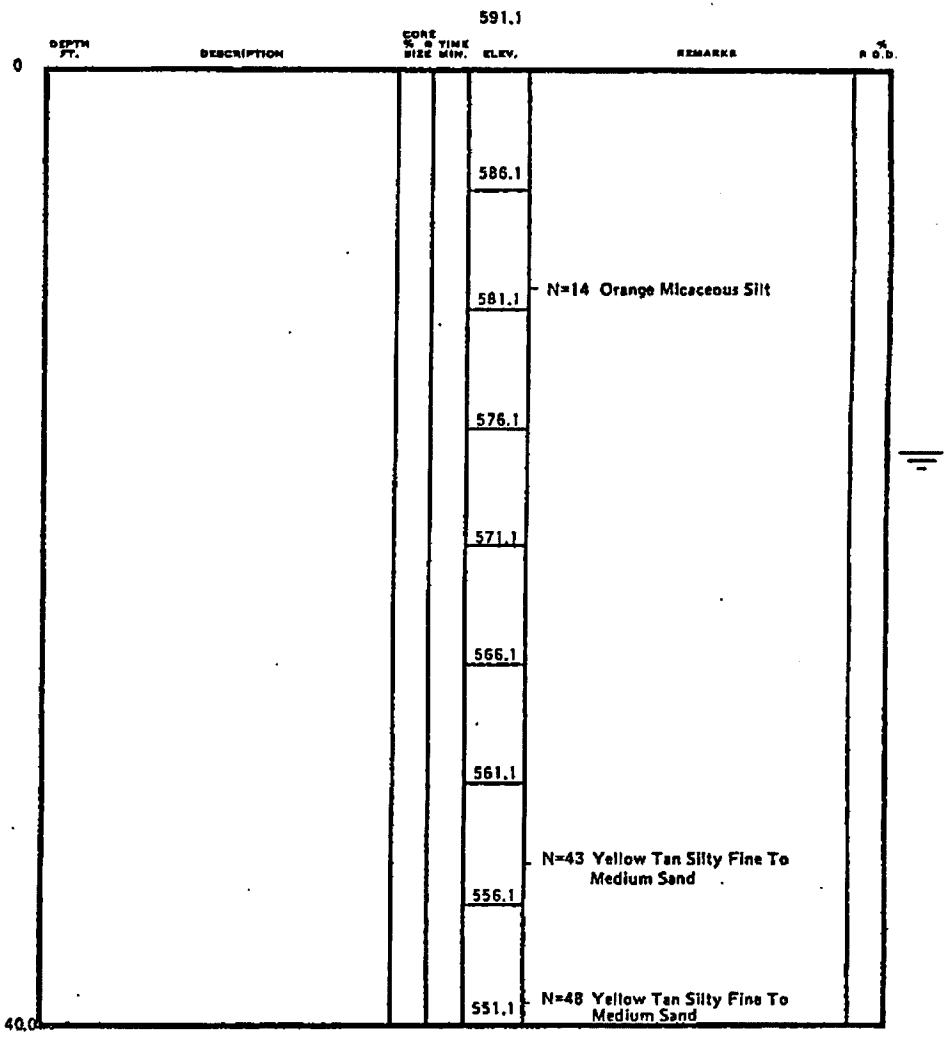
* Hard Medium Bluish Gray Mafic Gneiss

Page 4 of 4

TEST BORING RECORD

BORING NO. B-82
DATE DRILLED 8-15-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

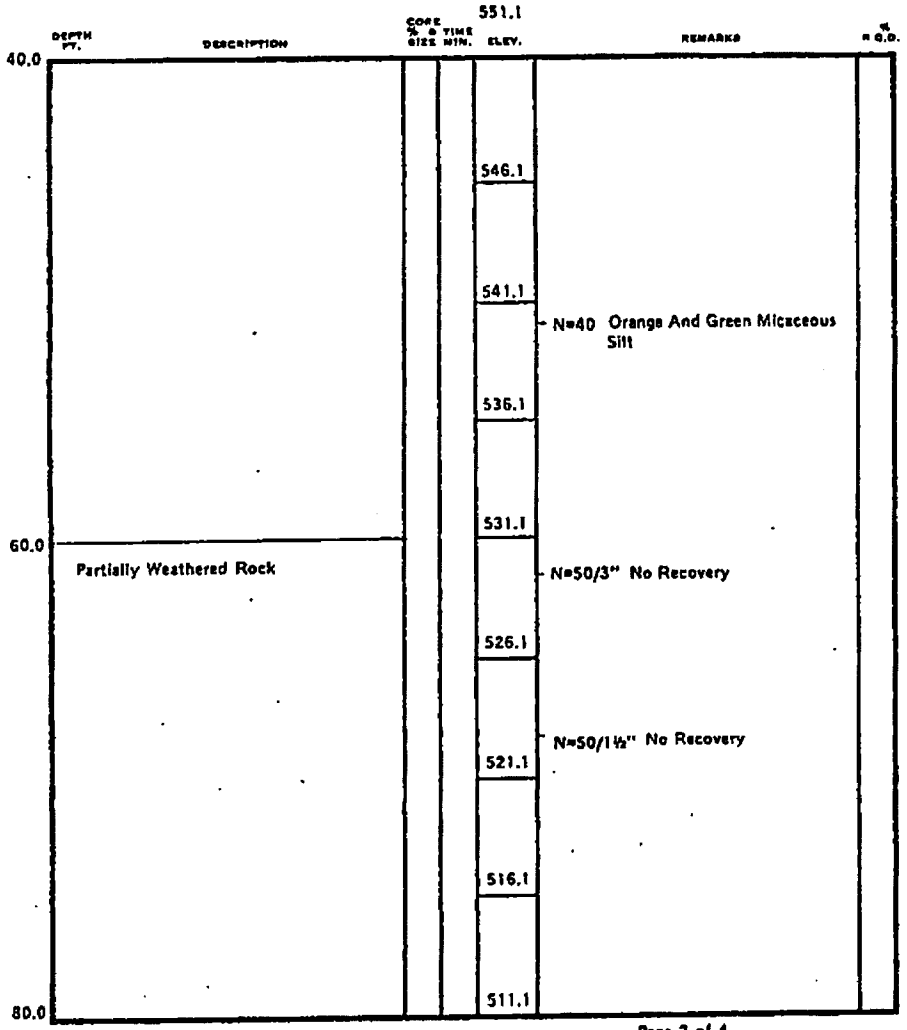
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-83P
DATE DRILLED 9-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

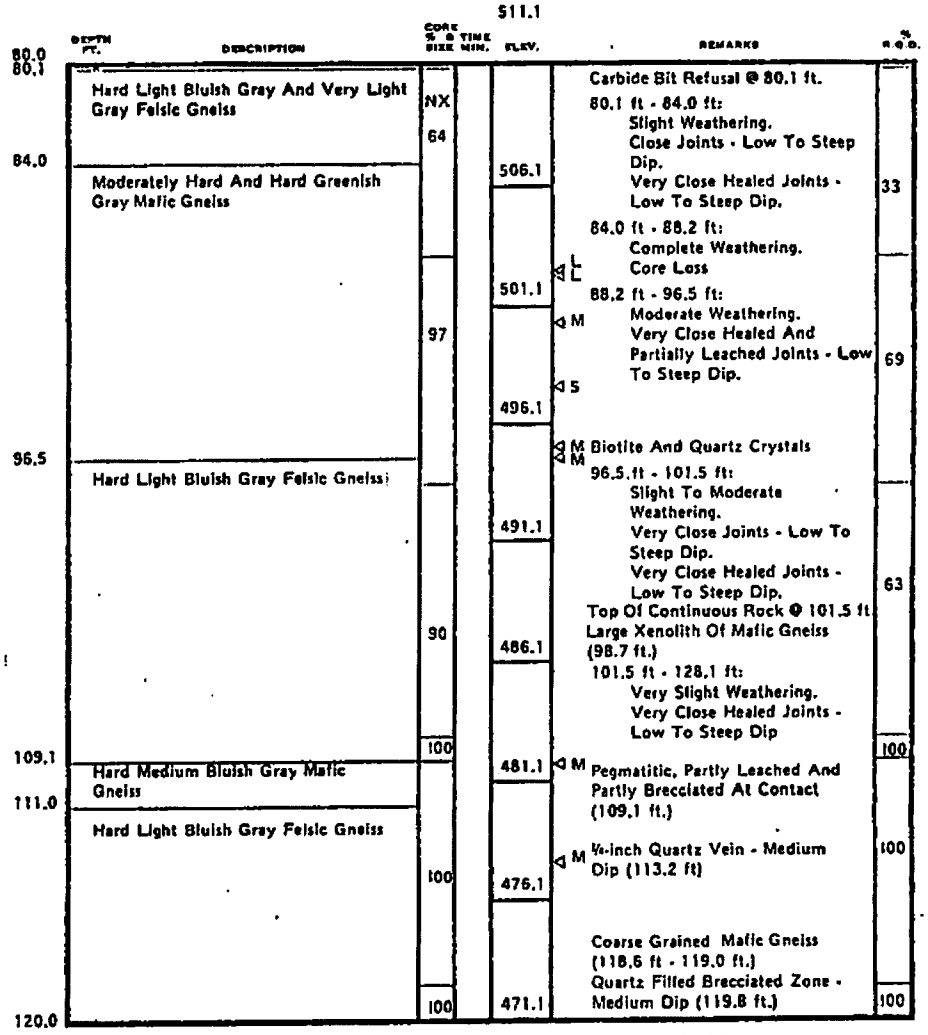
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-83P
DATE DRILLED 9-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 *Partially Weathered Rock
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

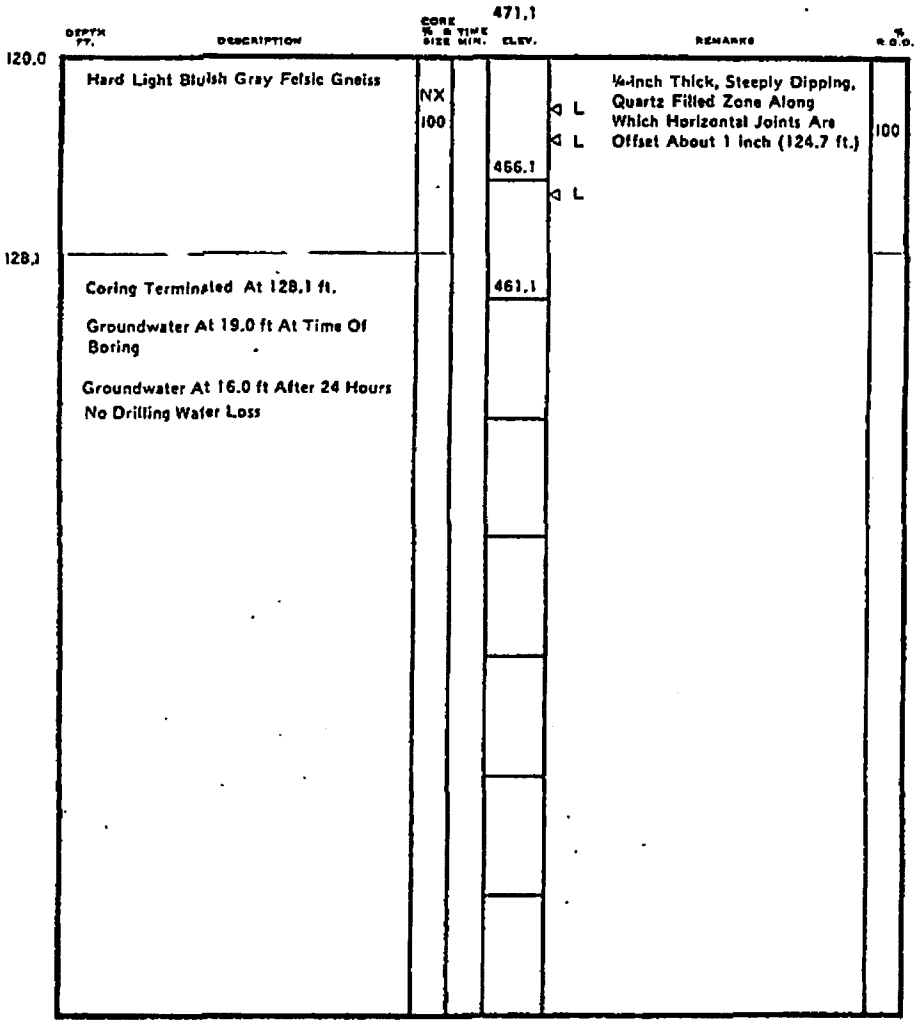
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-83P
DATE DRILLED 9-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[58]% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

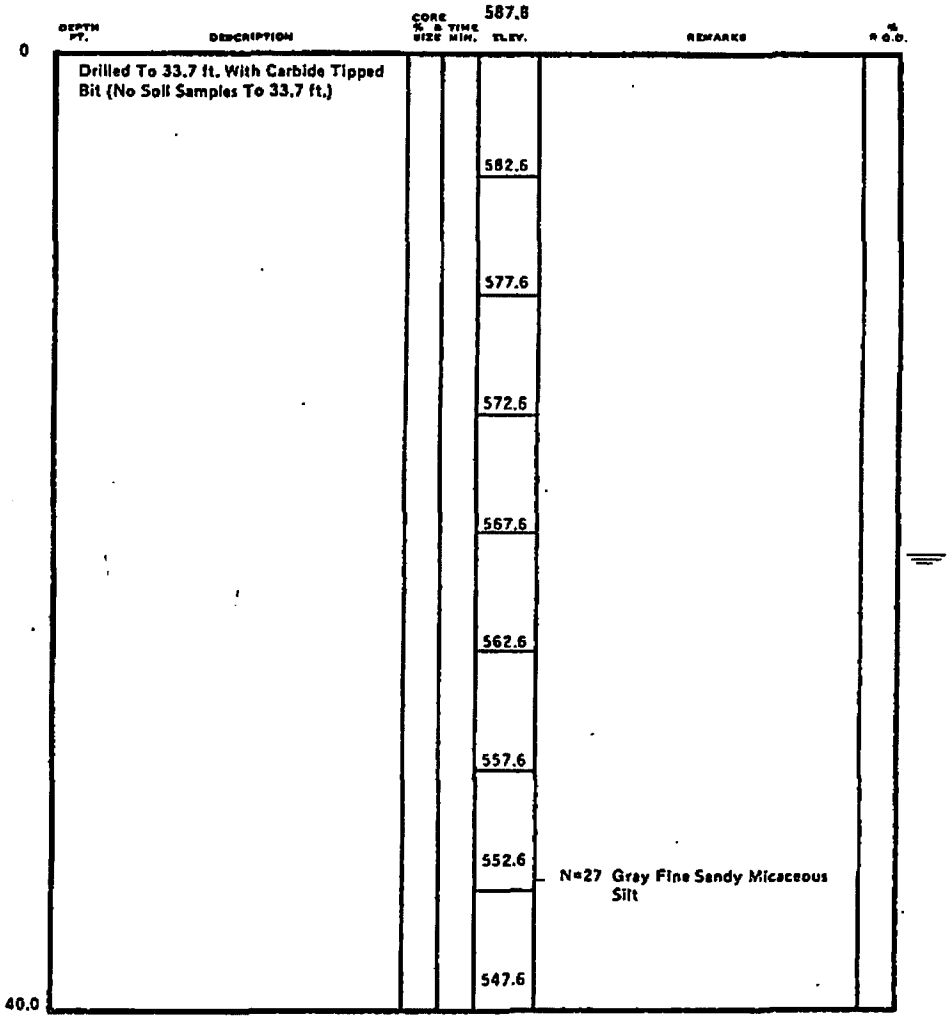
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-83P
DATE DRILLED 9-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[58]% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

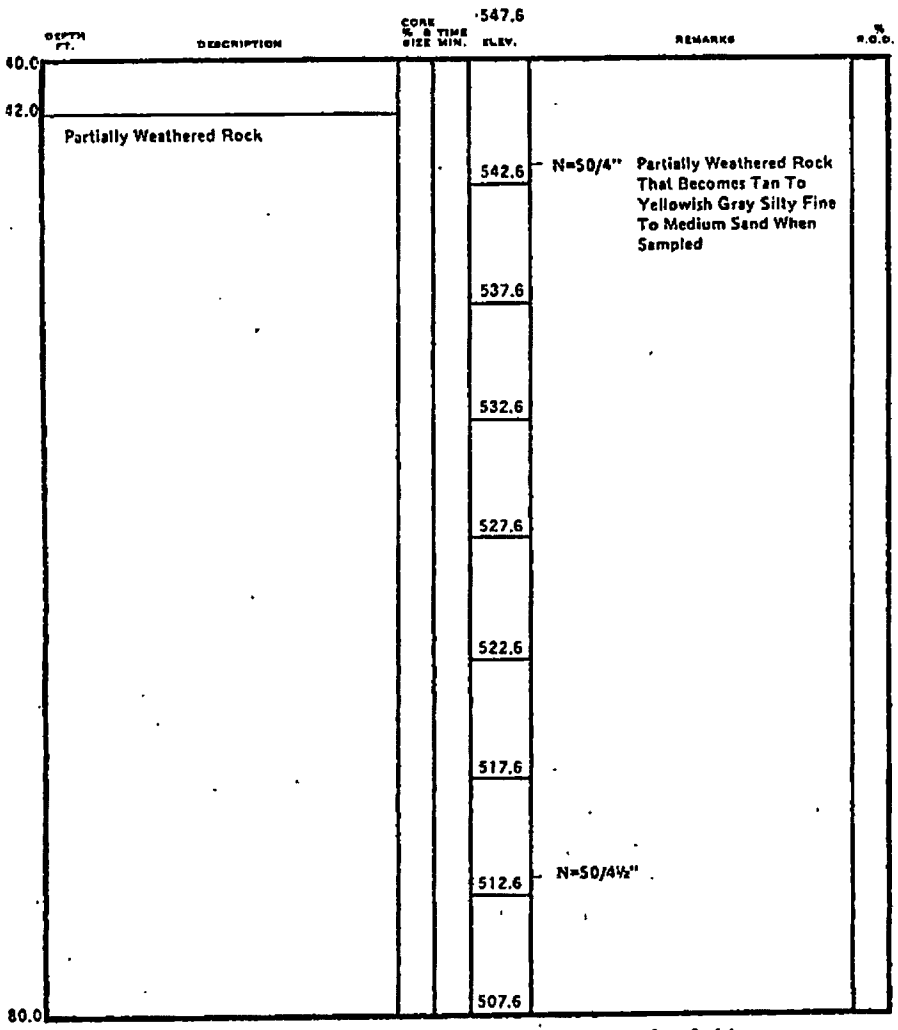
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-83AP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

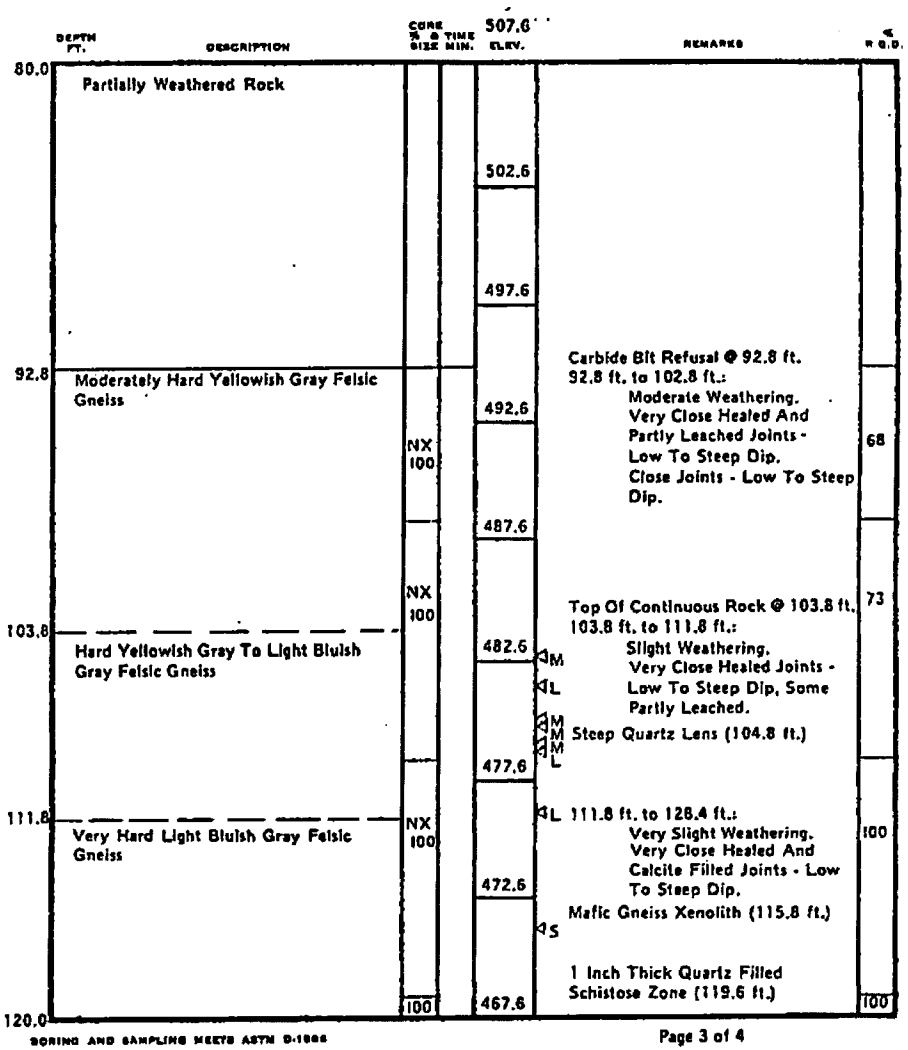
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-83AP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

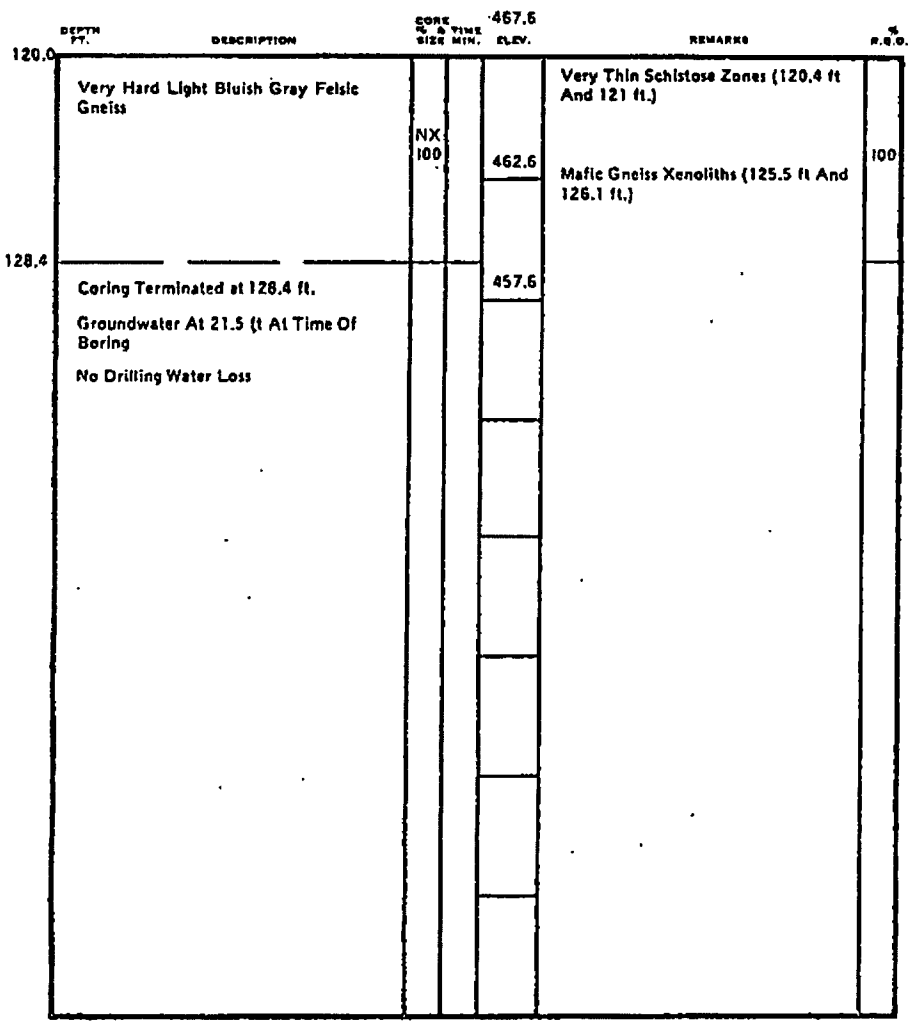
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-83AP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

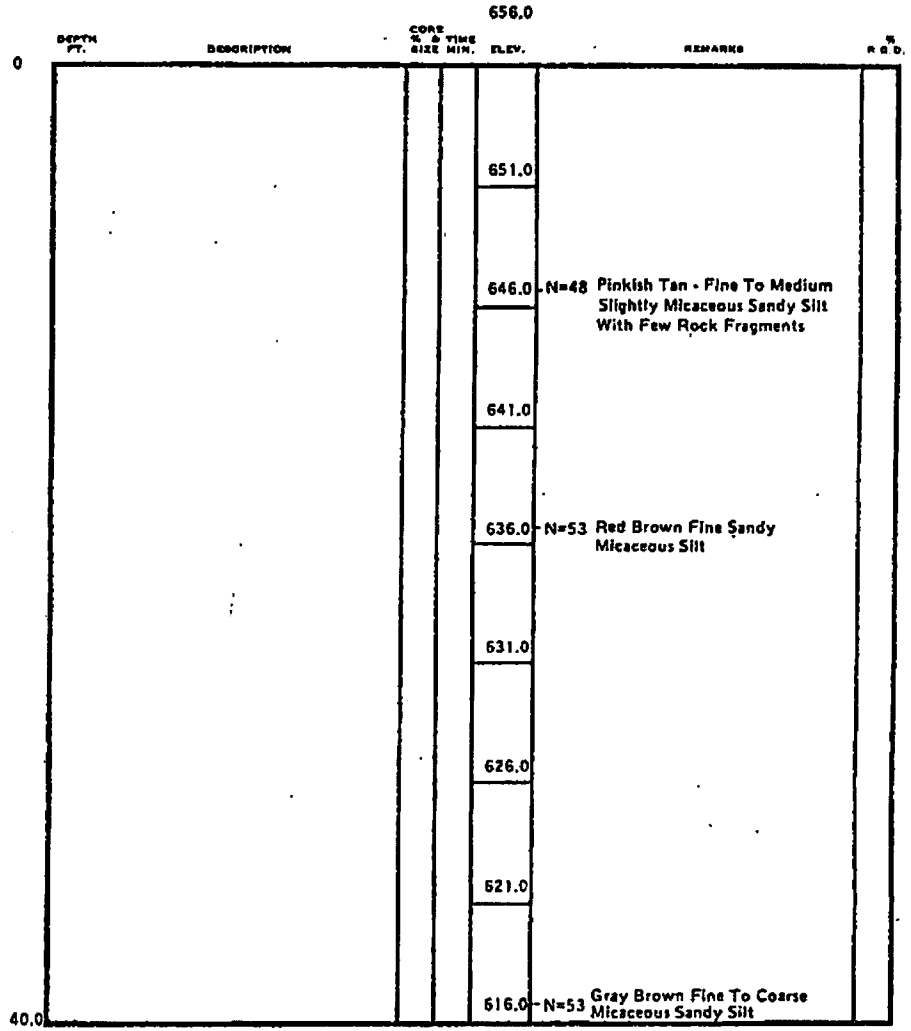
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-83AP
DATE DRILLED 9-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

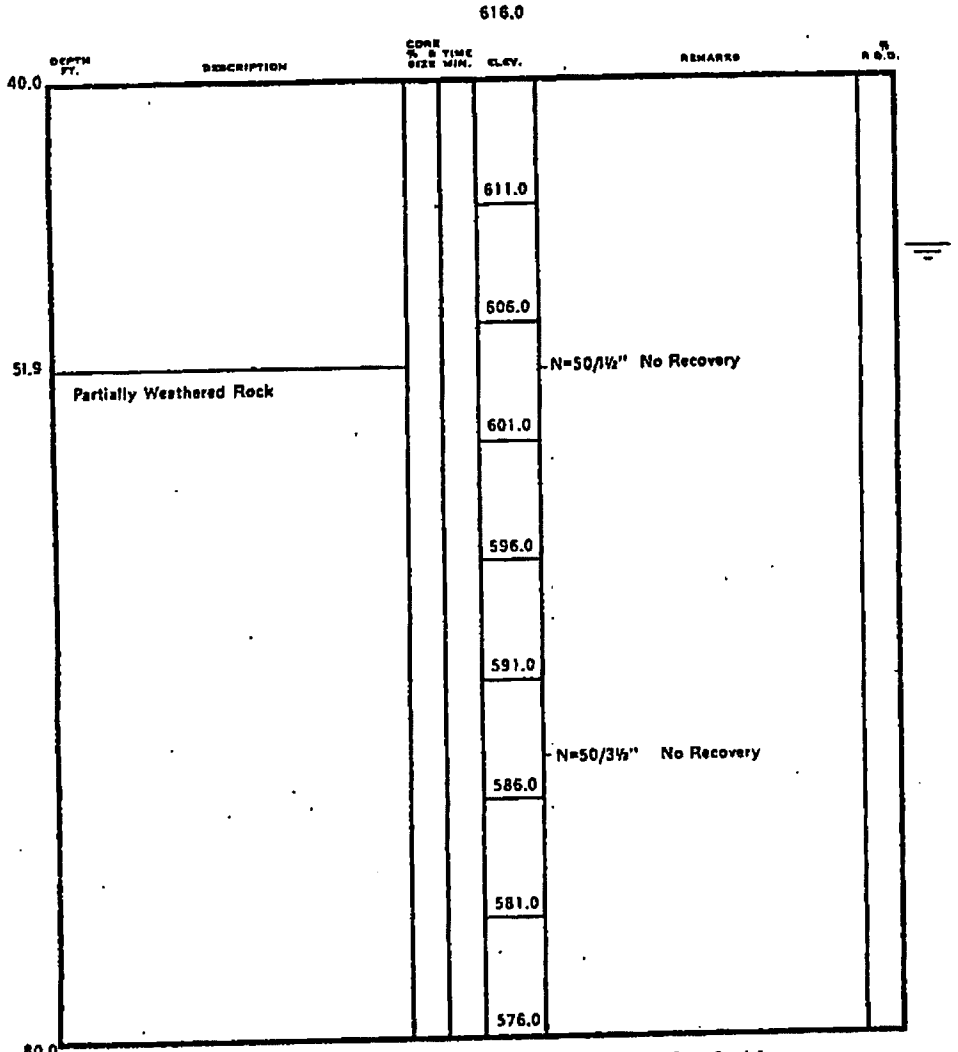
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-84P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

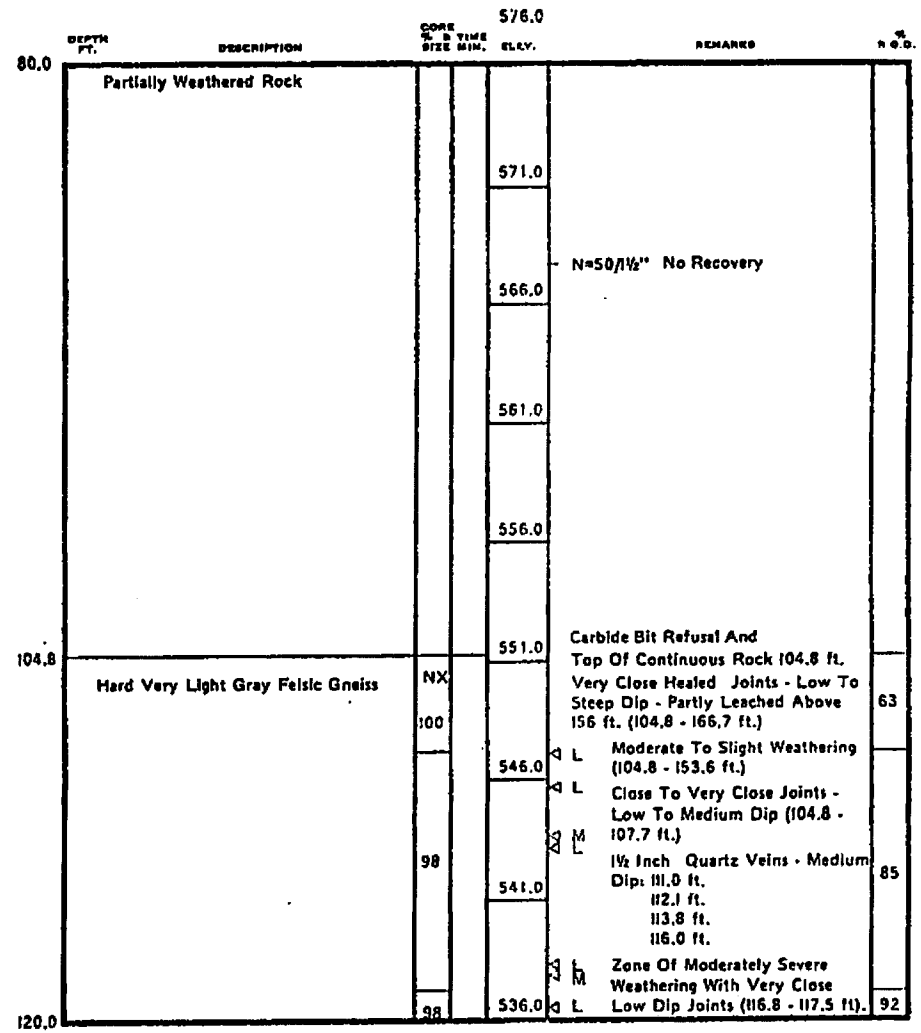
ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 5

TEST BORING RECORD

BORING NO. B-84P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

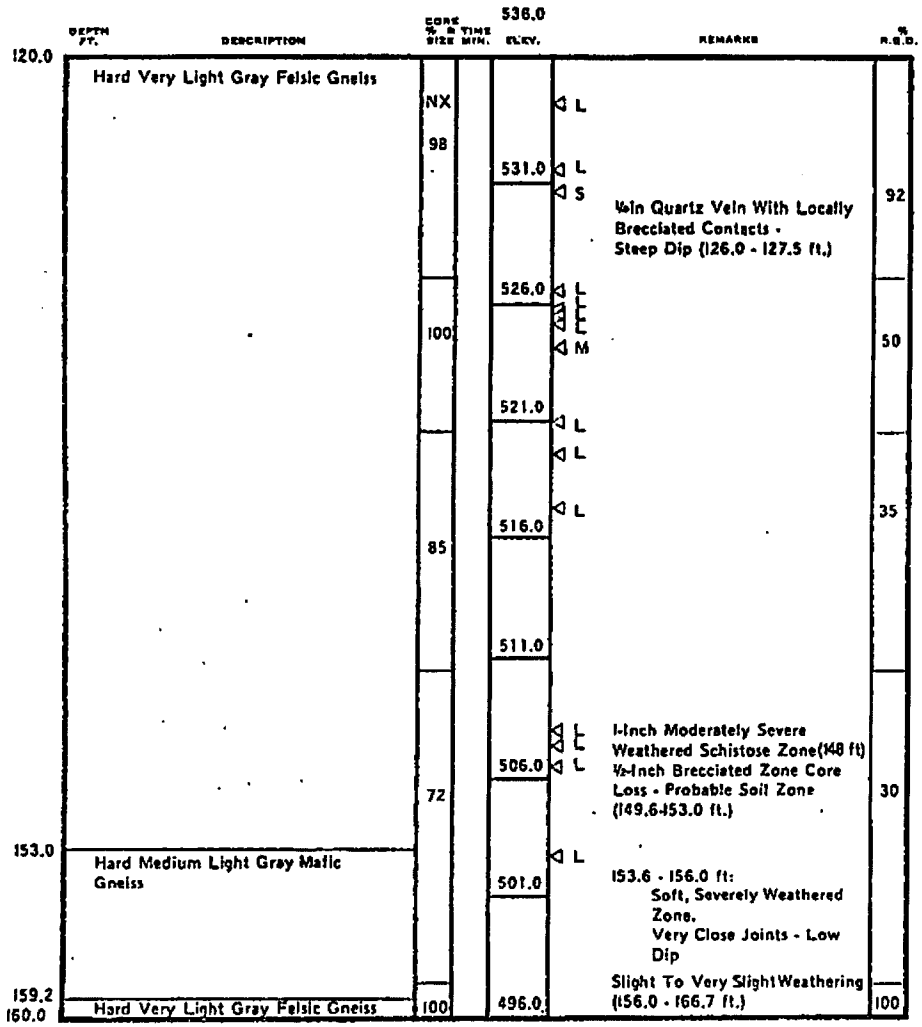
ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 5

TEST BORING RECORD

BORING NO. B-84P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

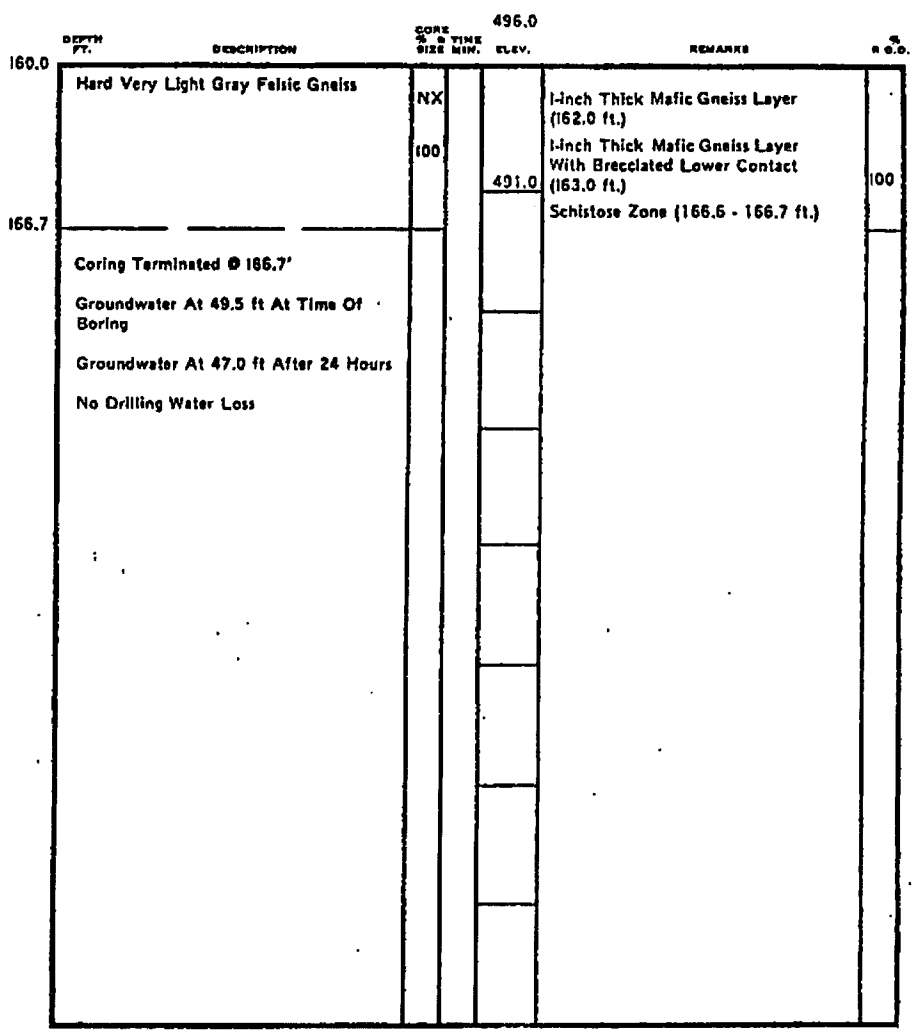
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-84P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

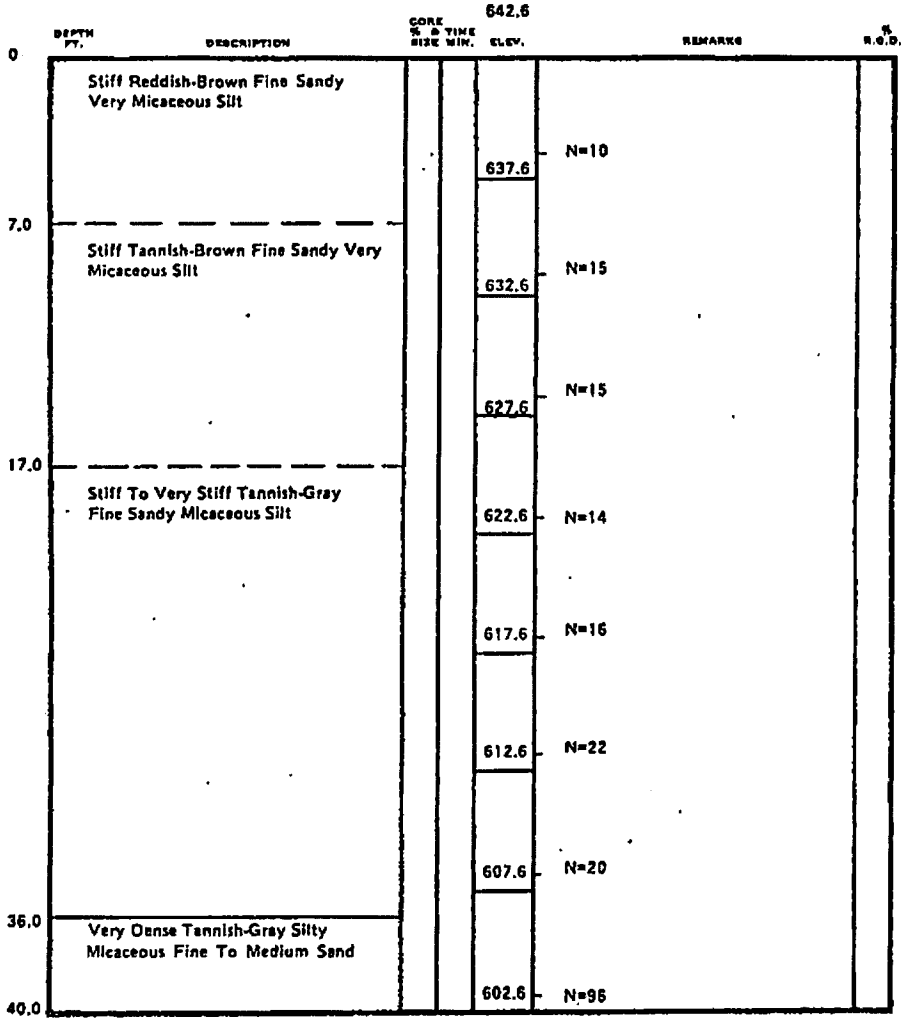
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-84P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

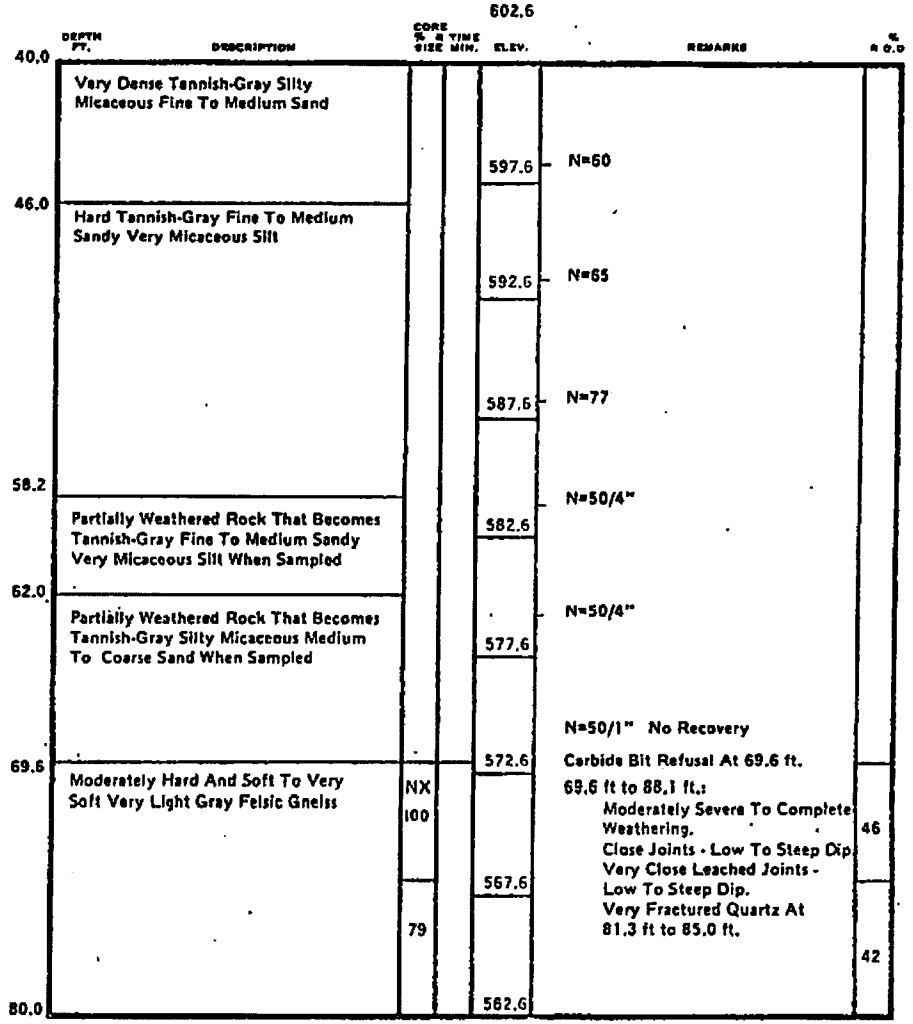
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-86
DATE DRILLED 10-23-73
JOB NO. CH 2920

LAW ENGINEERING TESTING



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

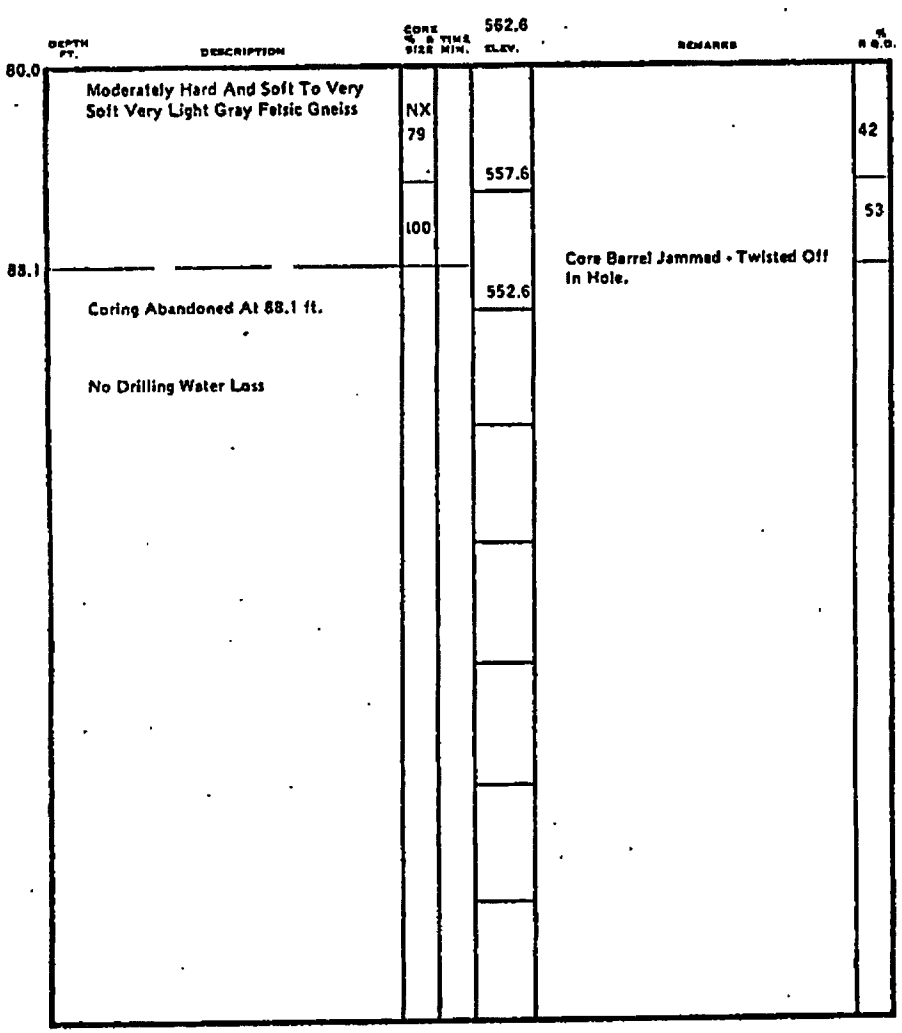
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-86
DATE DRILLED 10-23-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

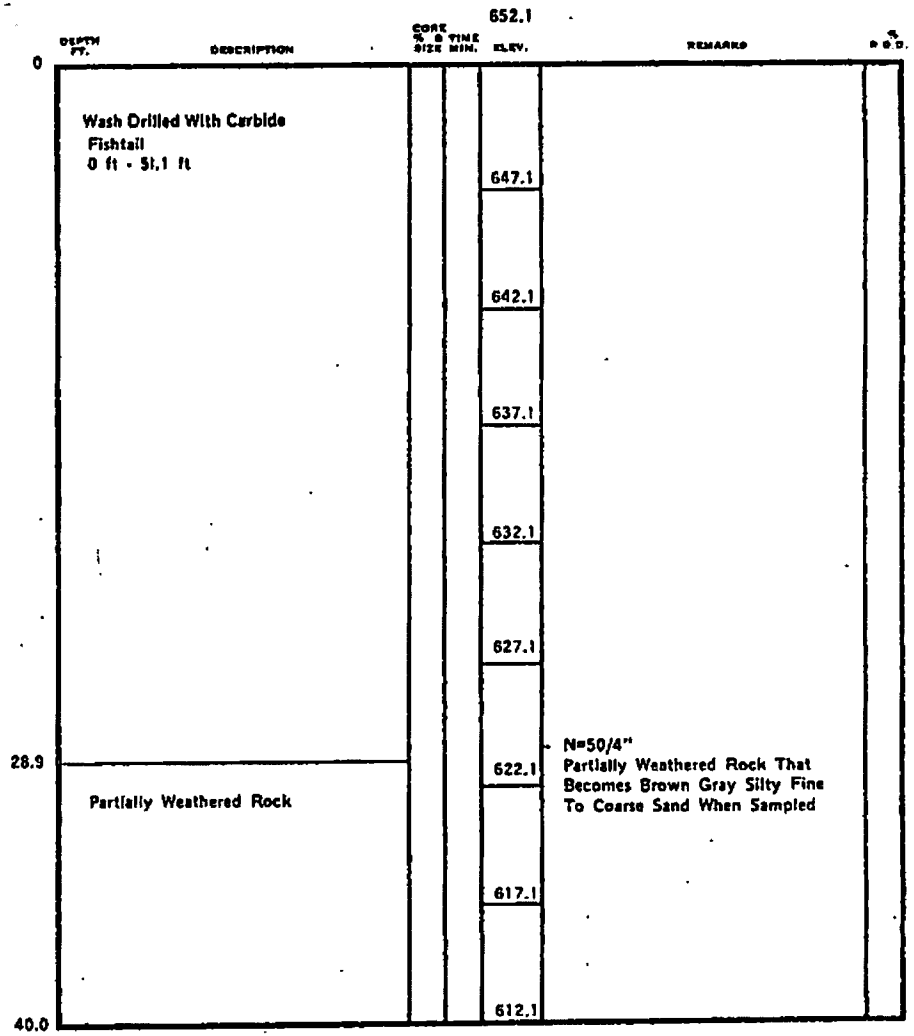
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-86
DATE DRILLED 10-23-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

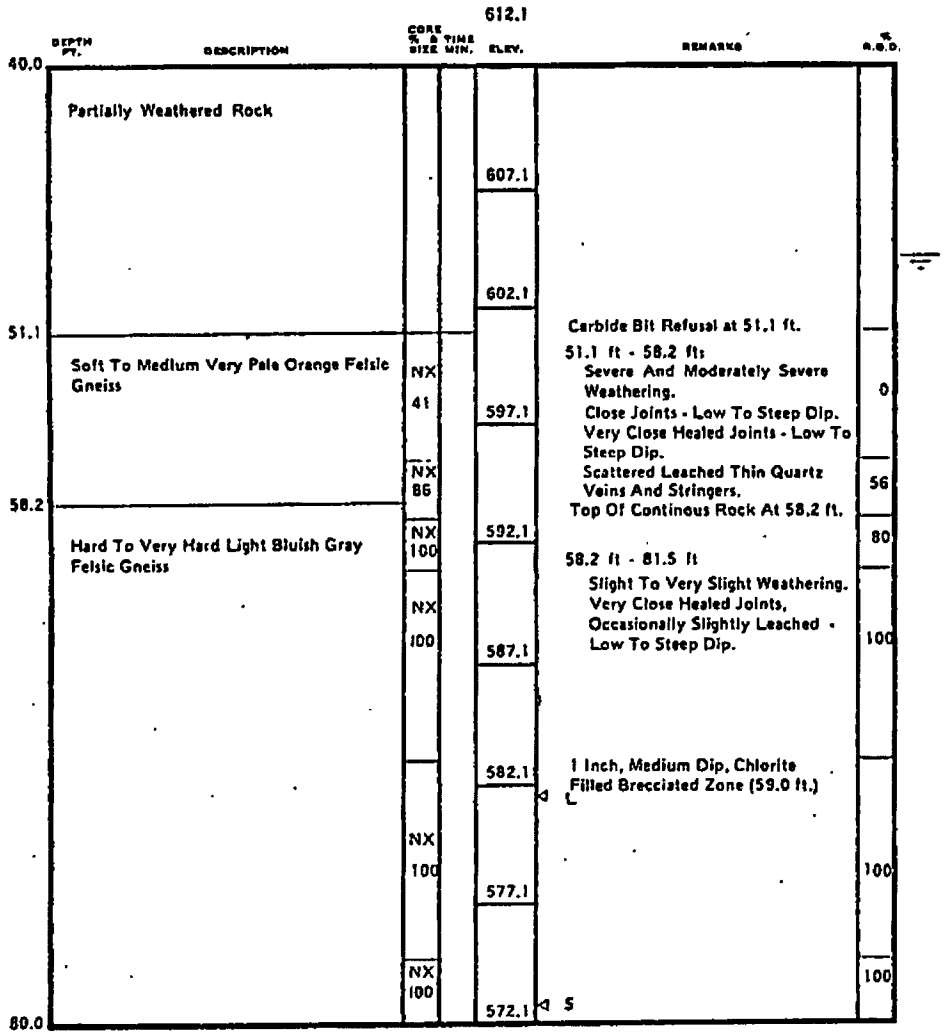
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-89P
DATE DRILLED 10-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

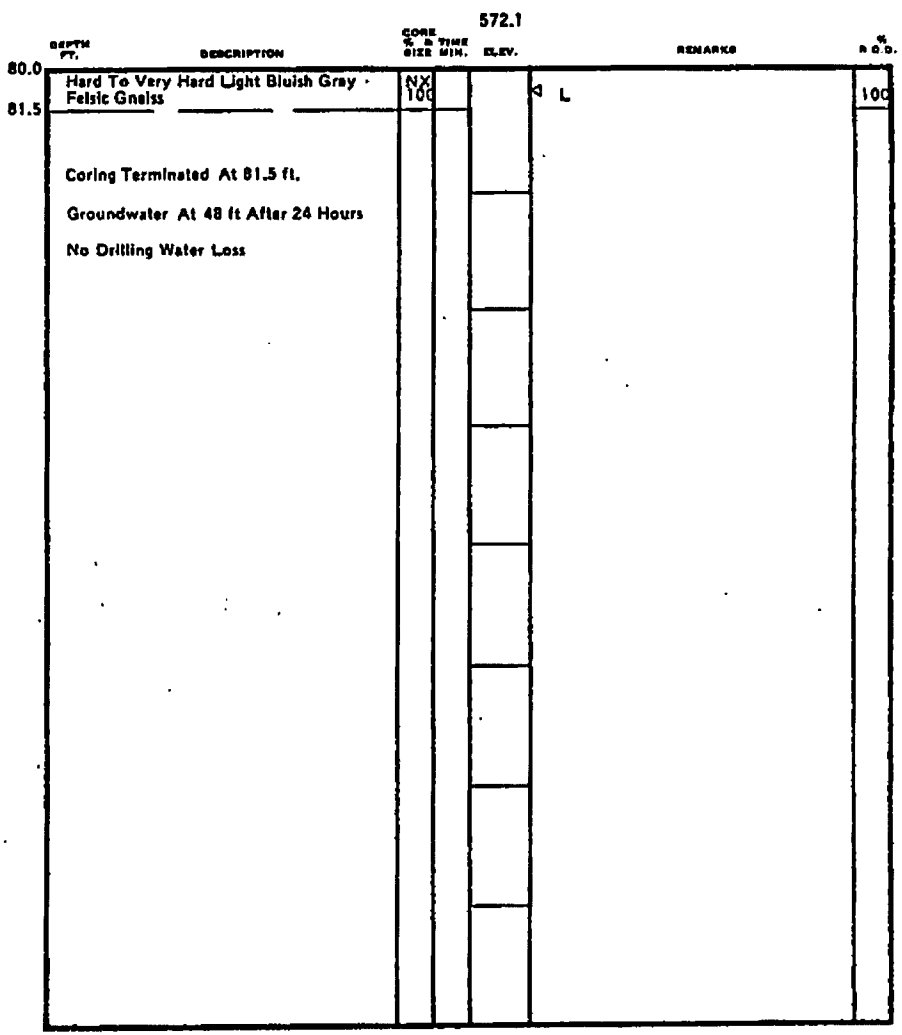
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-89P
DATE DRILLED 10-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

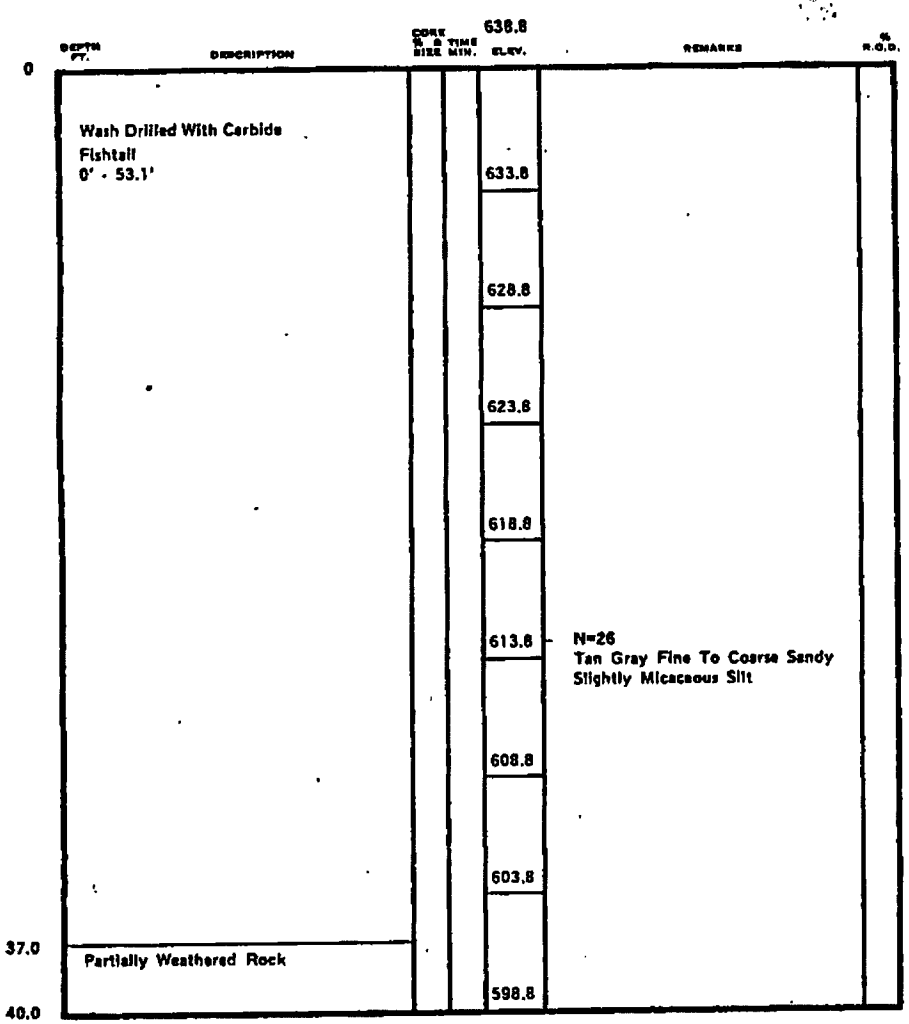
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-89P
DATE DRILLED 10-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

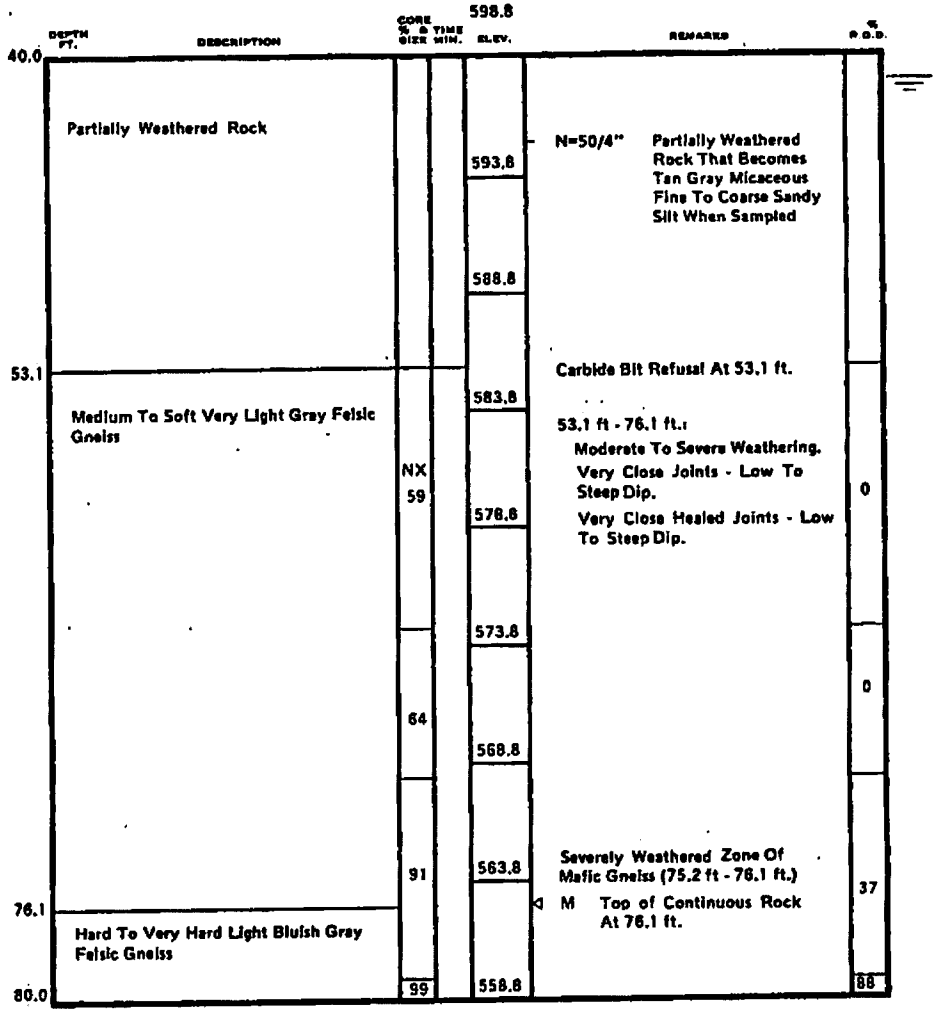
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-90P
DATE DRILLED 10-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-90P
DATE DRILLED 10-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	588.8 ELEV.	REMARKS	% R.Q.D.
80.0	Hard Light Bluish Gray Felsic Gneiss	NX	99	553.8	M Moderately Severe Weathering 76.1 ft - 87.0 ft: Slight Weathering. Very Close Healed And Partially Leached Joints - Low To Steep Dip.	88
				548.8	87.0 ft - 98.8 ft: Very Slight Weathering. Very Close Healed Joints With Chlorite And Calcite - Low To Steep Dip.	
			100	543.8	Irregular, Thin Steep Dip Quartz Veins With Iron And Copper Oxides (92.5 to 94.1 ft.)	100
98.8	Coring Terminated At 98.8 Ft Groundwater At 41.5 Ft After 24 Hours No Drilling Water Loss			538.8		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-90P
DATE DRILLED 10-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	619.5 ELEV.	REMARKS	% R.Q.D.
0	Wash Drilled With Carbide Fishtail 0 ft - 57.9 ft			614.5		
				609.5		
				604.5		
				599.5		
				594.5		
	N=23 Brown Tan Micaceous Fine To Medium Sandy Silt			589.5		
				584.5		
40.0				579.5		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

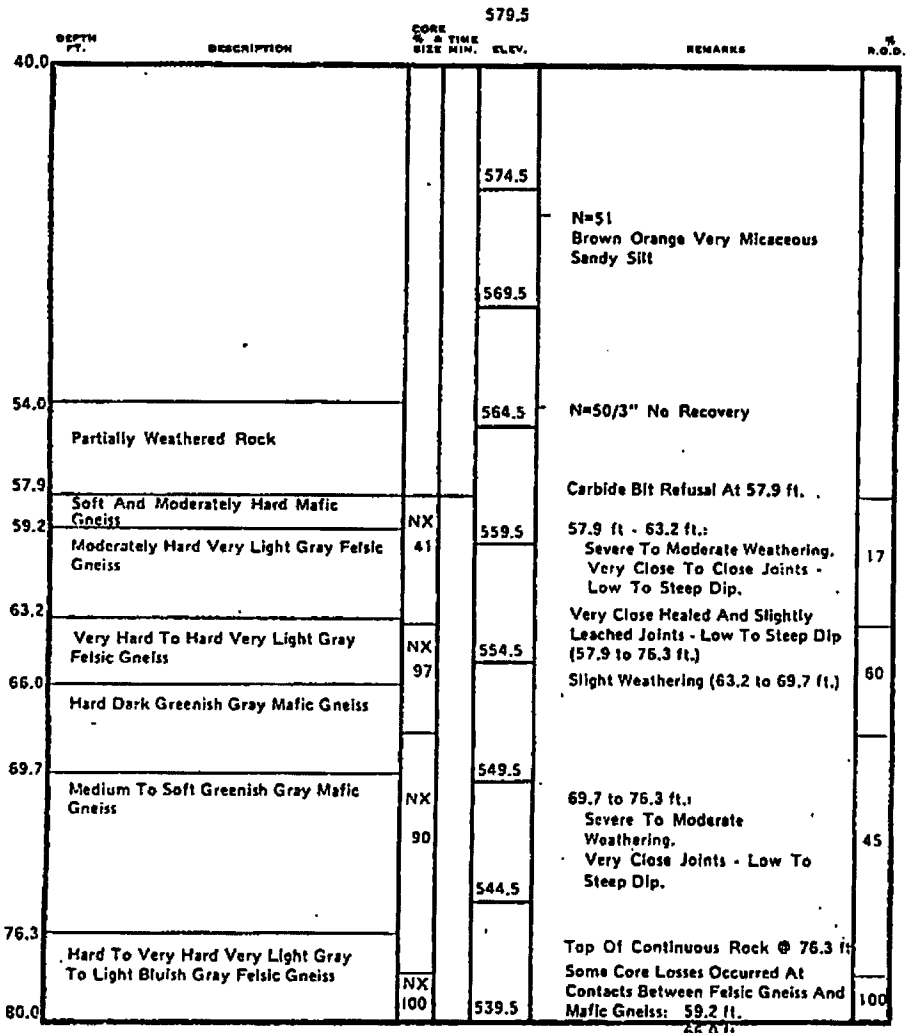
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-91P
DATE DRILLED 9-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

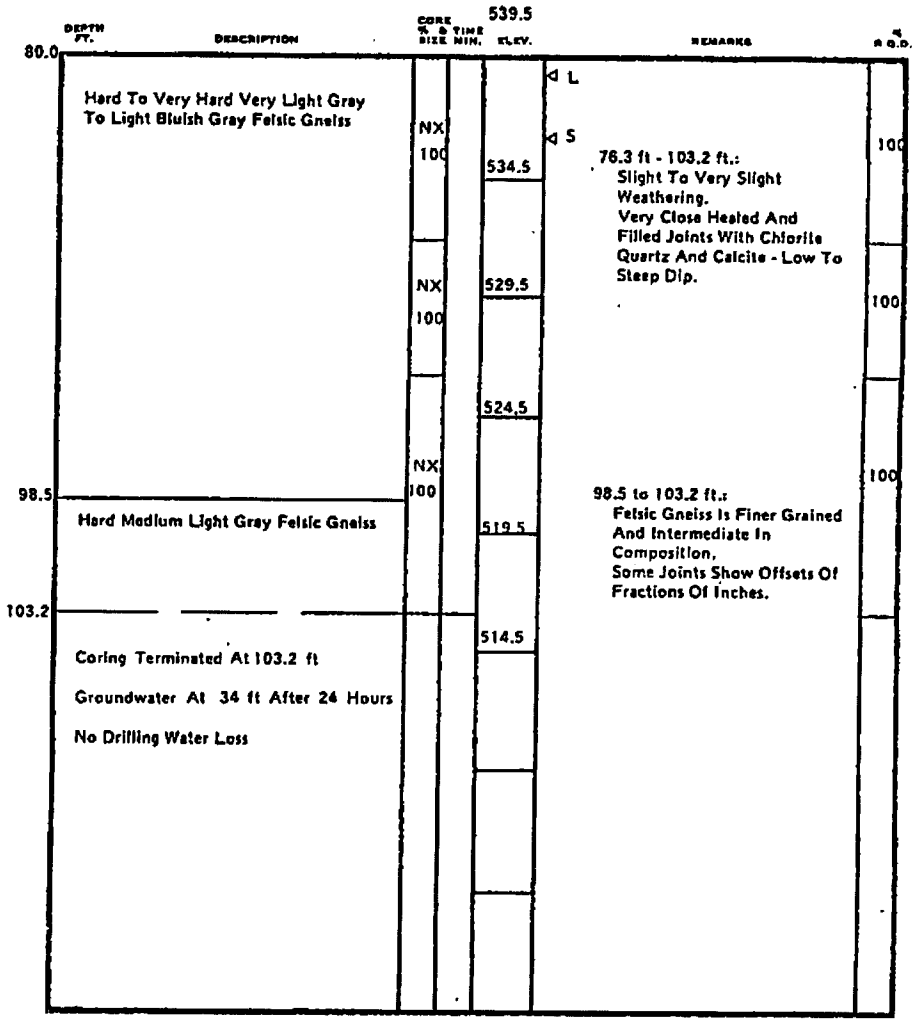
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-91P
DATE DRILLED 9-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

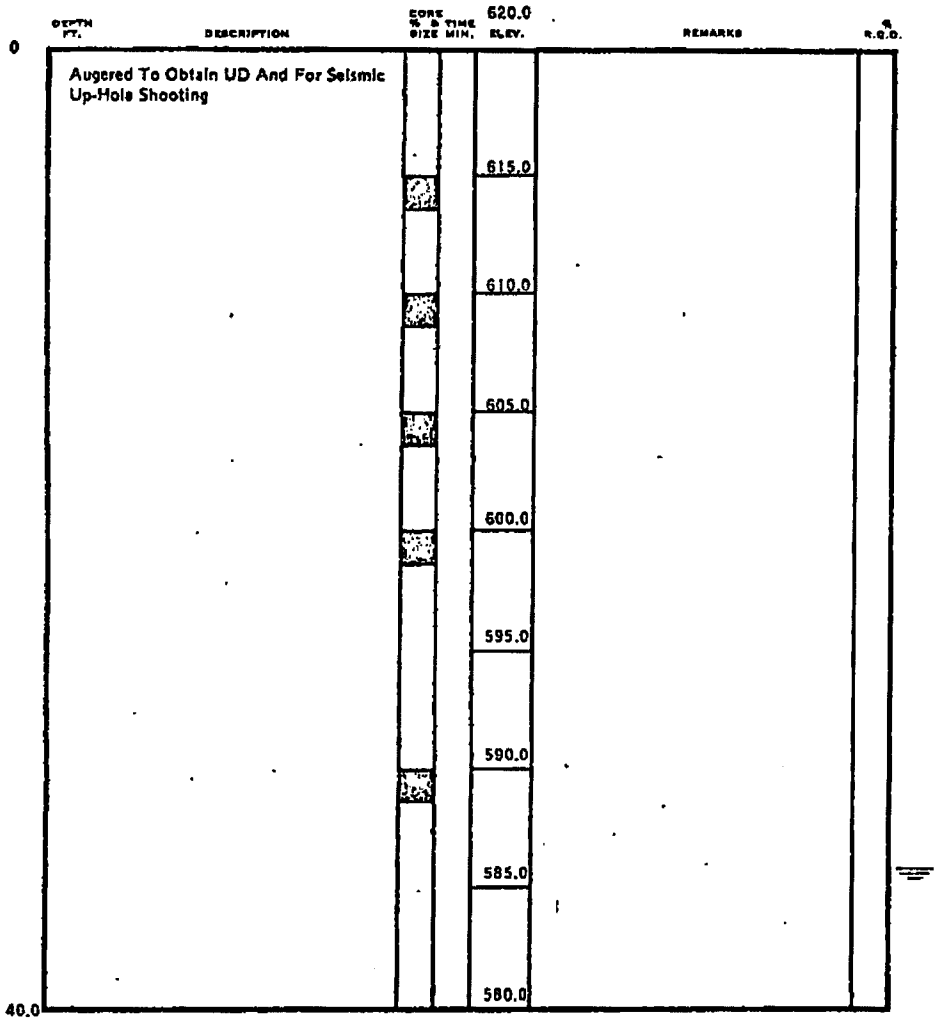
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-91P
DATE DRILLED 9-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

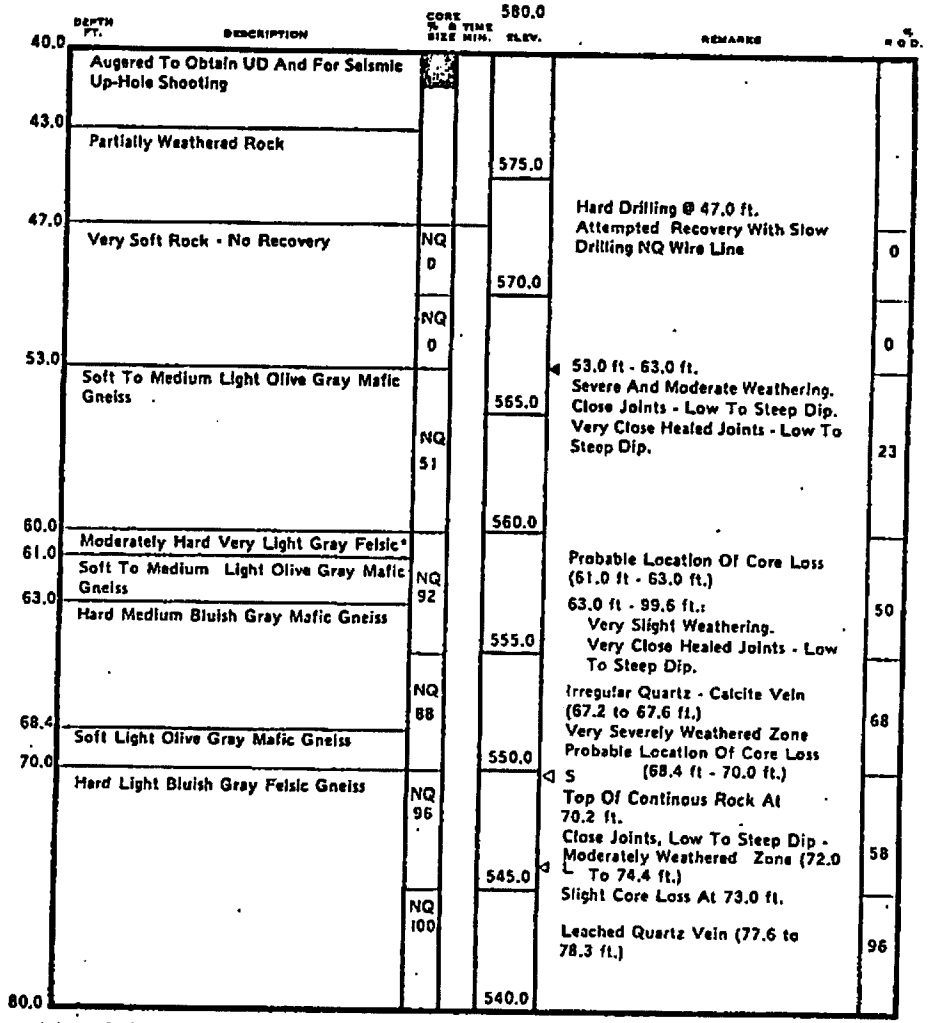
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-91 AP
DATE DRILLED 10-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * Gneiss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

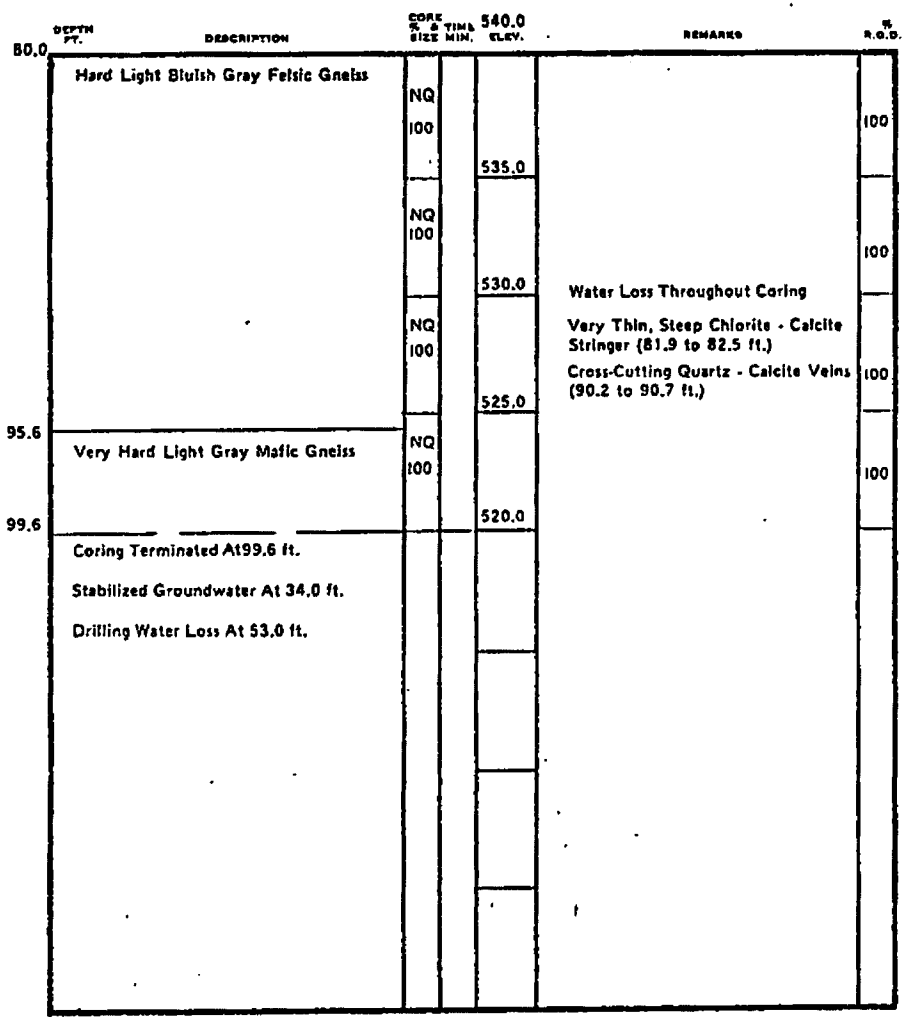
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-91 AP
DATE DRILLED 10-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

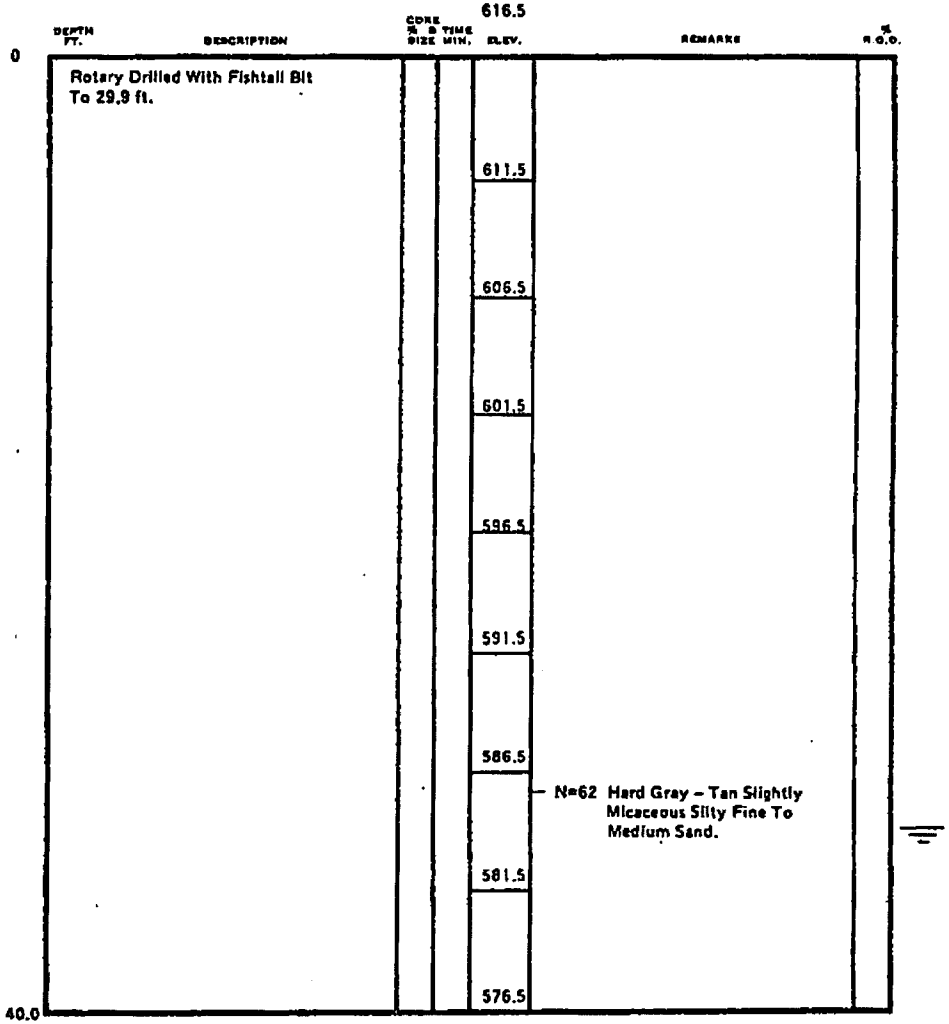
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-91 AP
DATE DRILLED 10-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRES TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

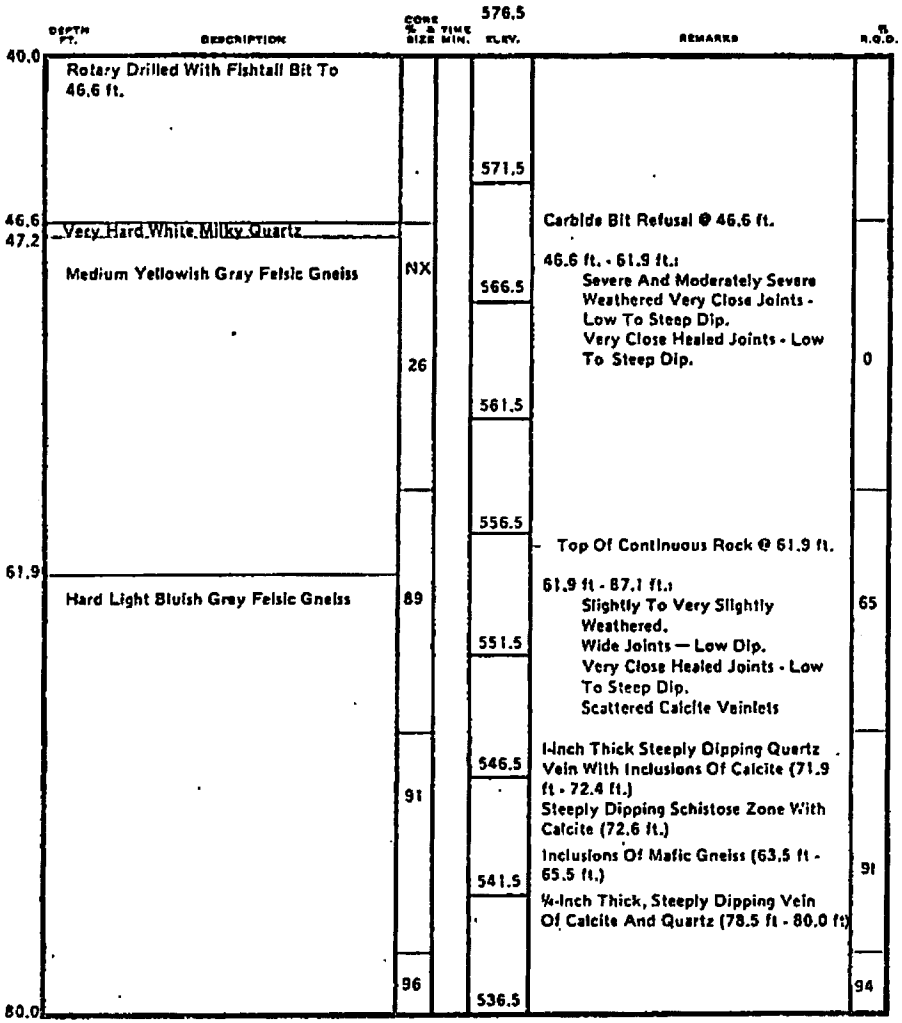
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-92 P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

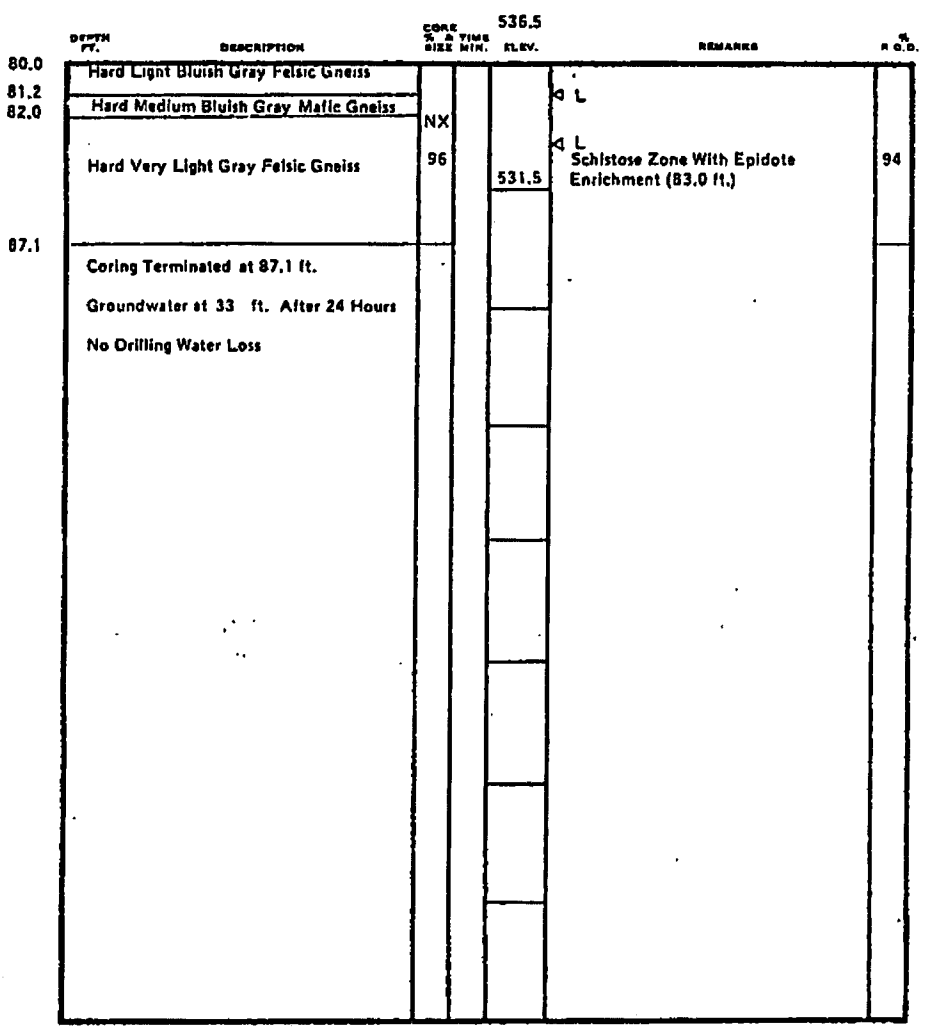
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINTS
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-92P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

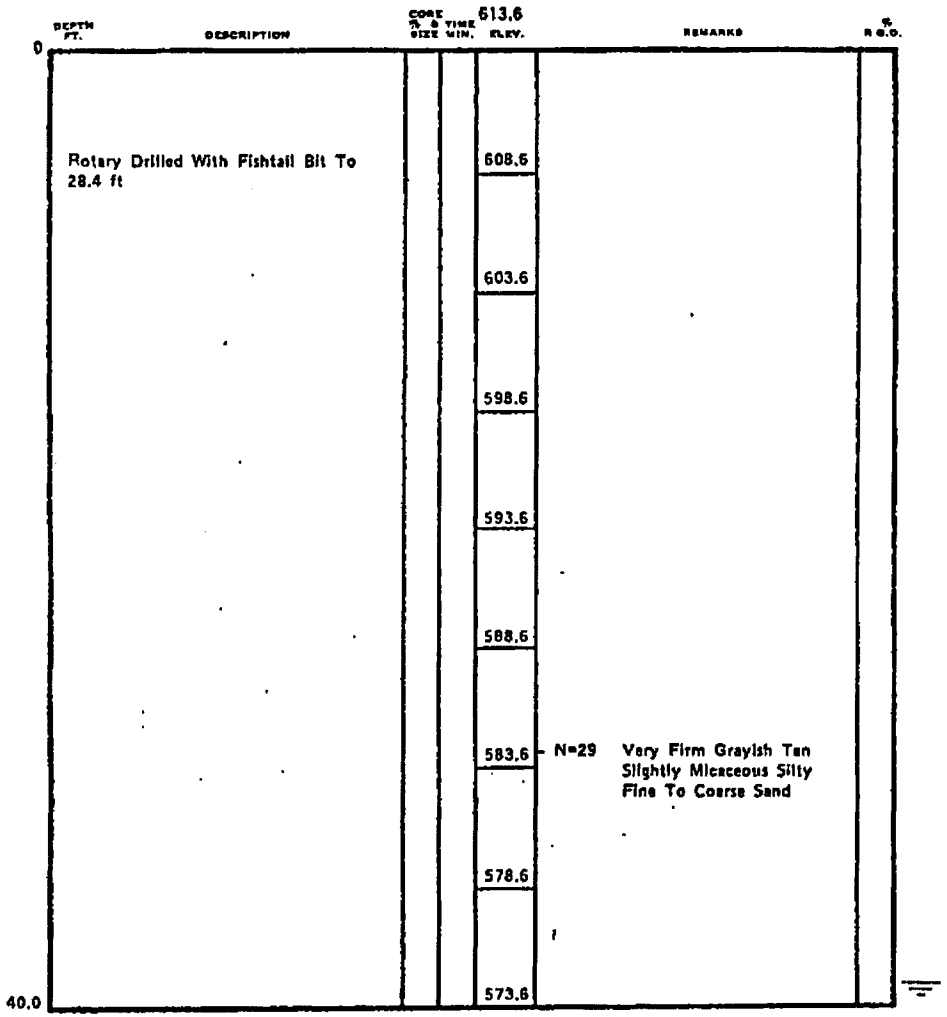
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINTS
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-92 P
DATE DRILLED 9-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

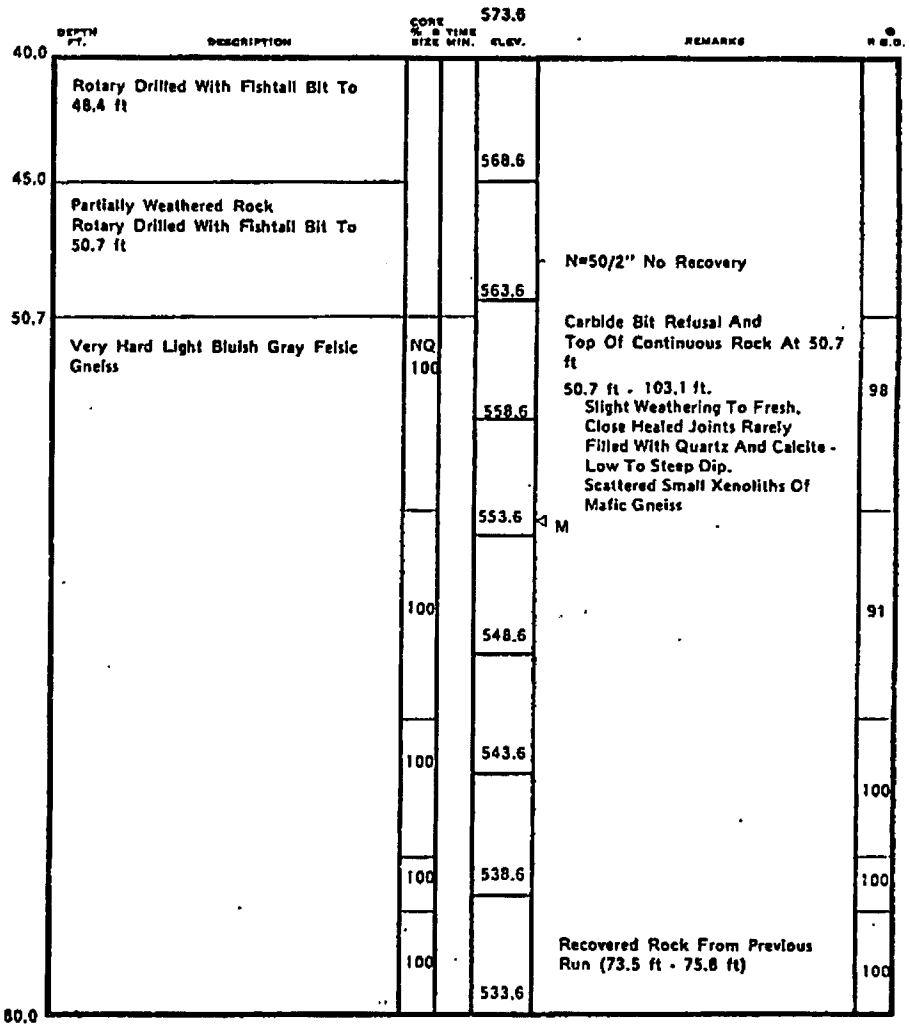
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-93P
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

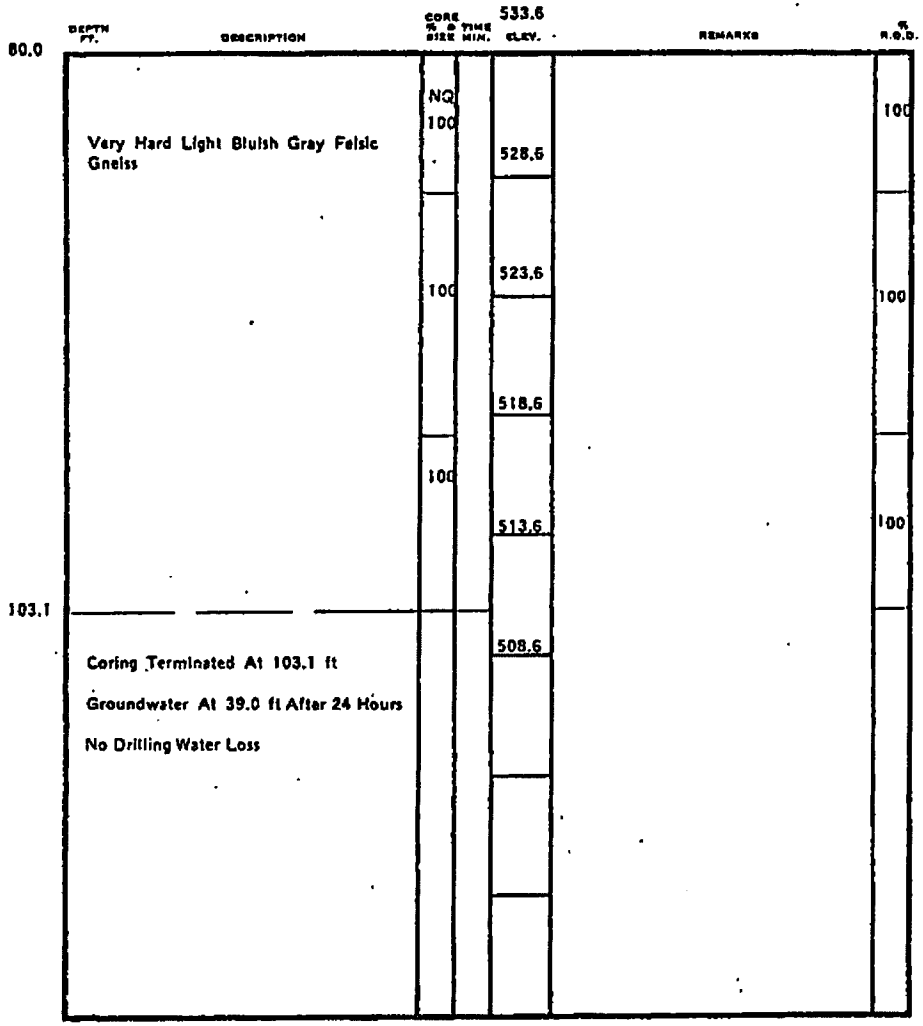
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-93P
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

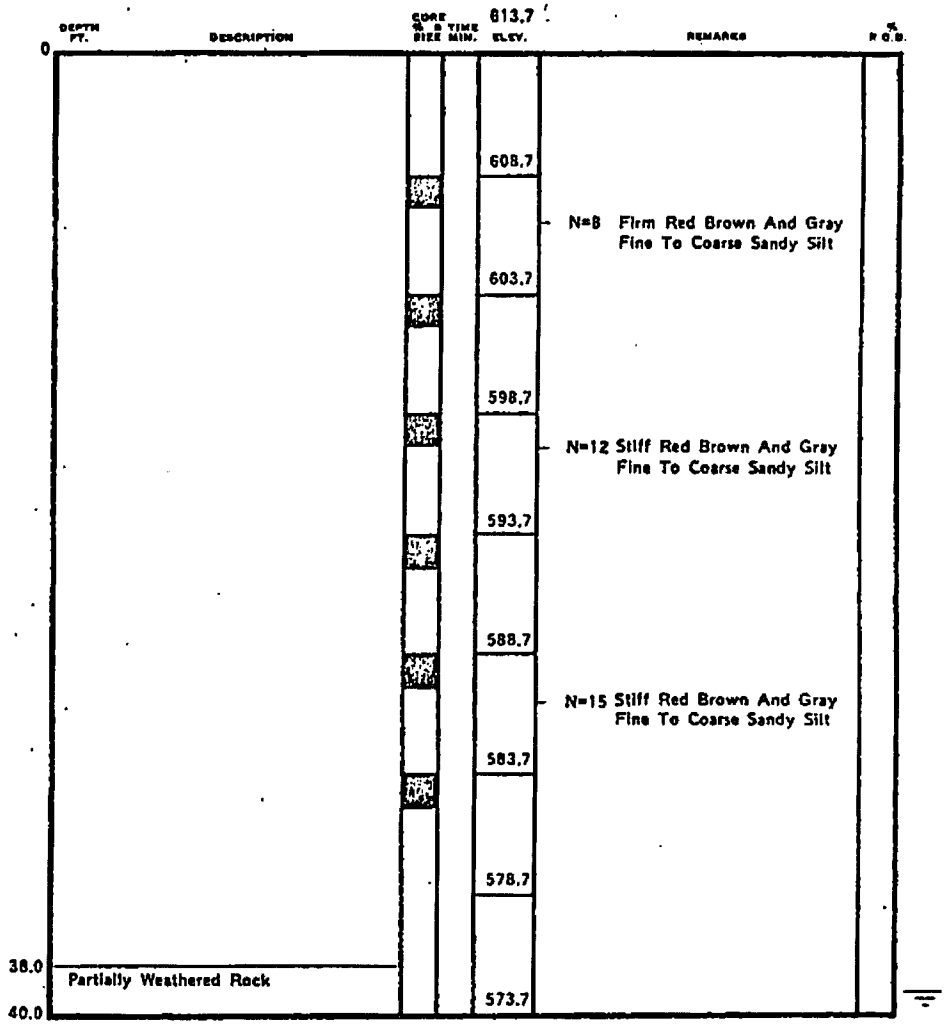
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-93P
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

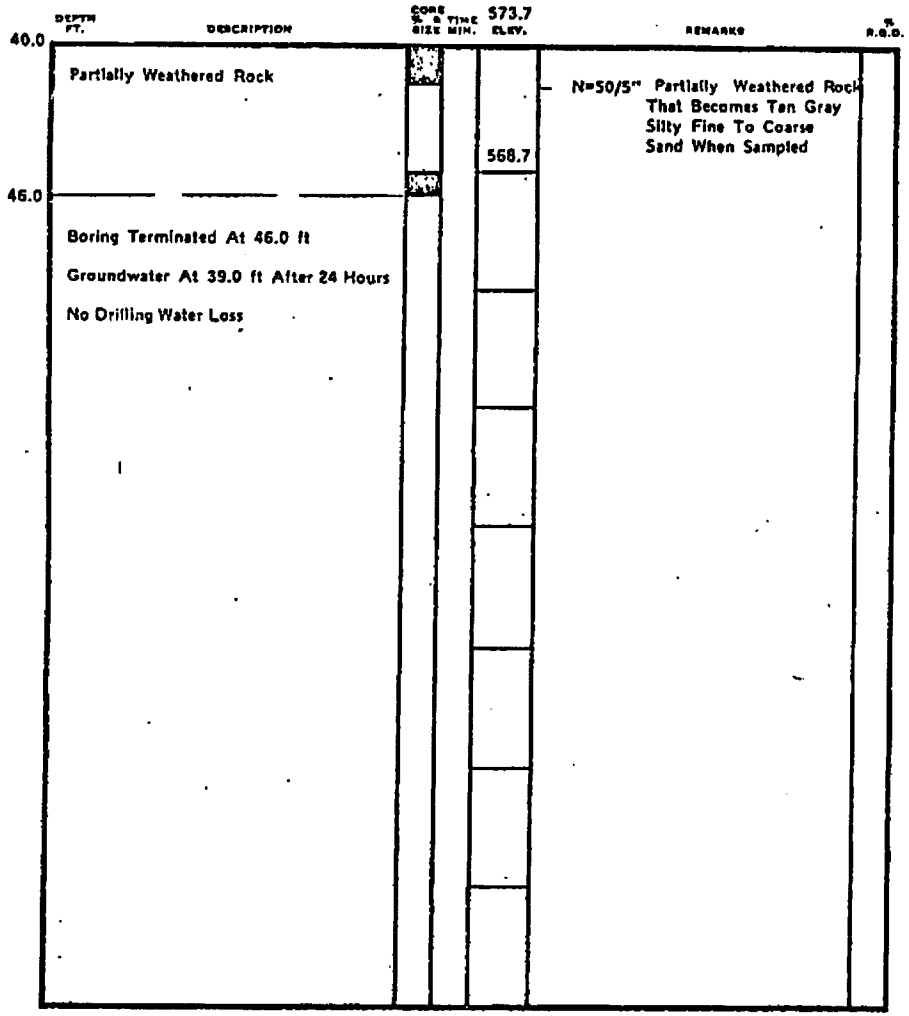
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-93AP
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

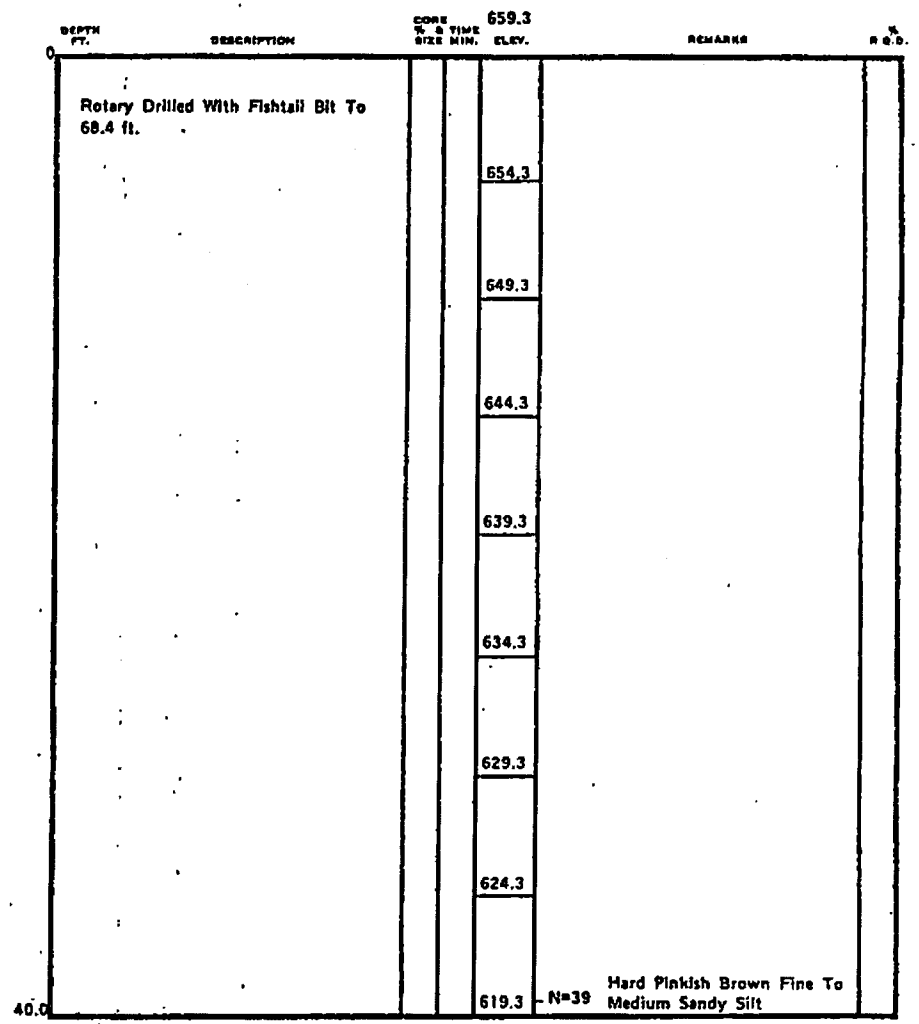
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-93AP
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

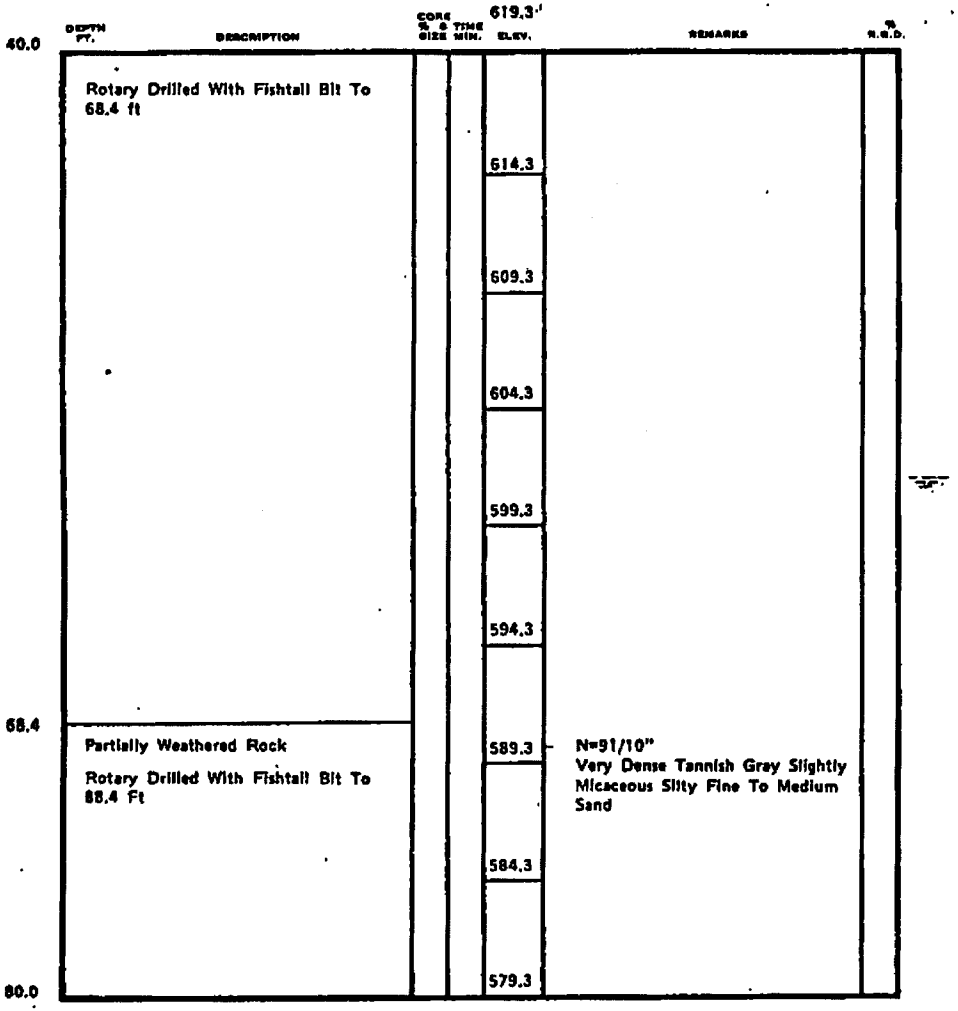
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-94P
DATE DRILLED 10-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

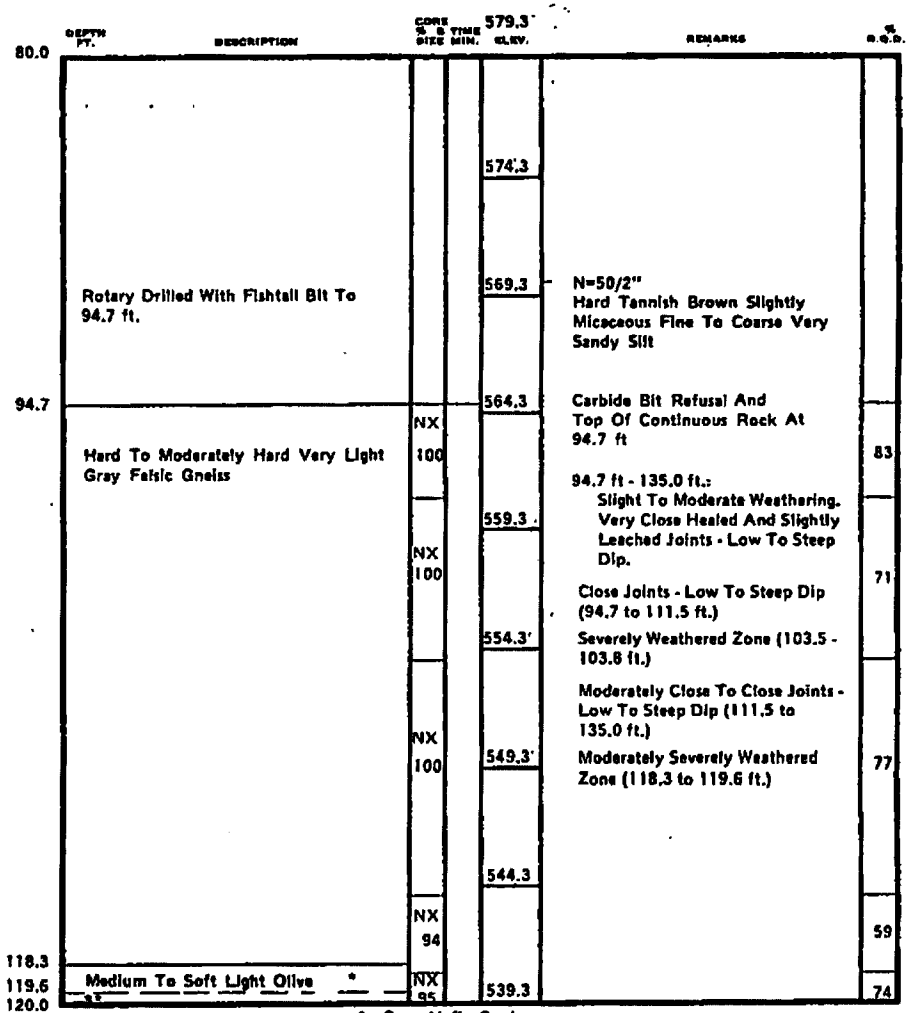
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-94P
DATE DRILLED 10-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

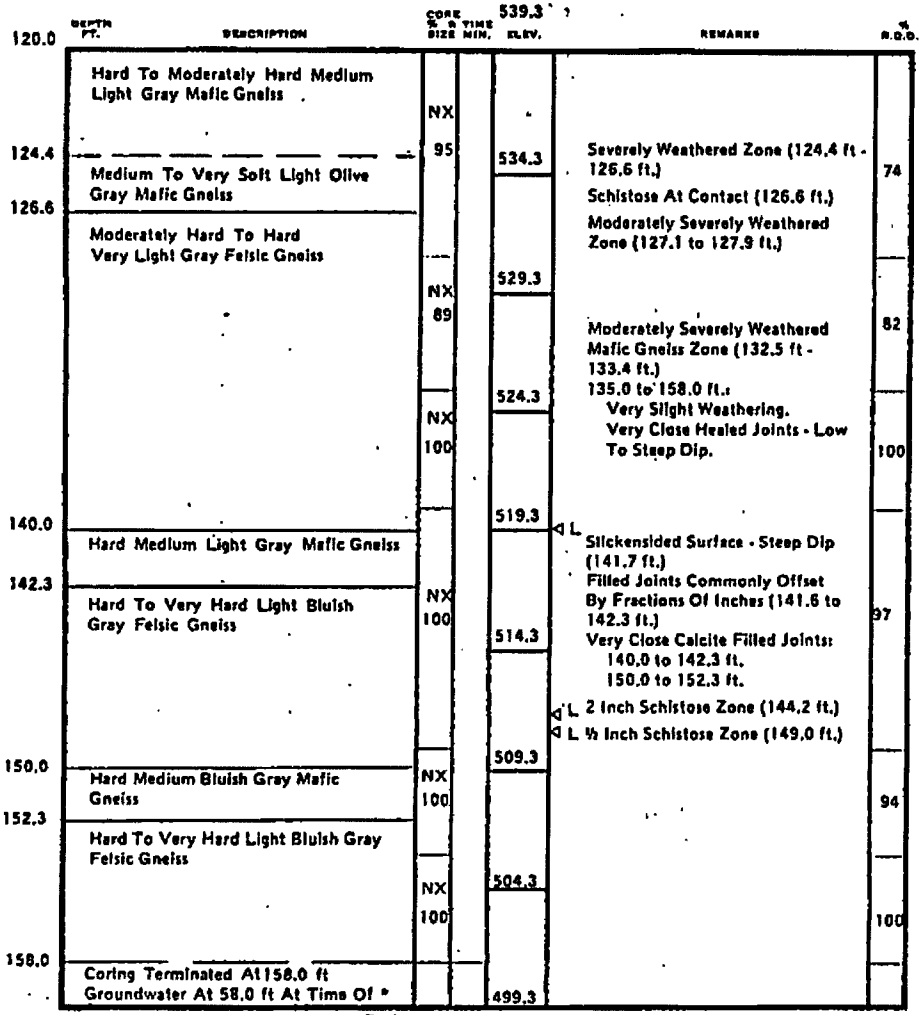
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

* Gray Mafic Gneiss
** Hard To Moderately Hard Medium Light Gray Mafic Gneiss

TEST BORING RECORD

BORING NO. B-94P
DATE DRILLED 10-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 4 of 4

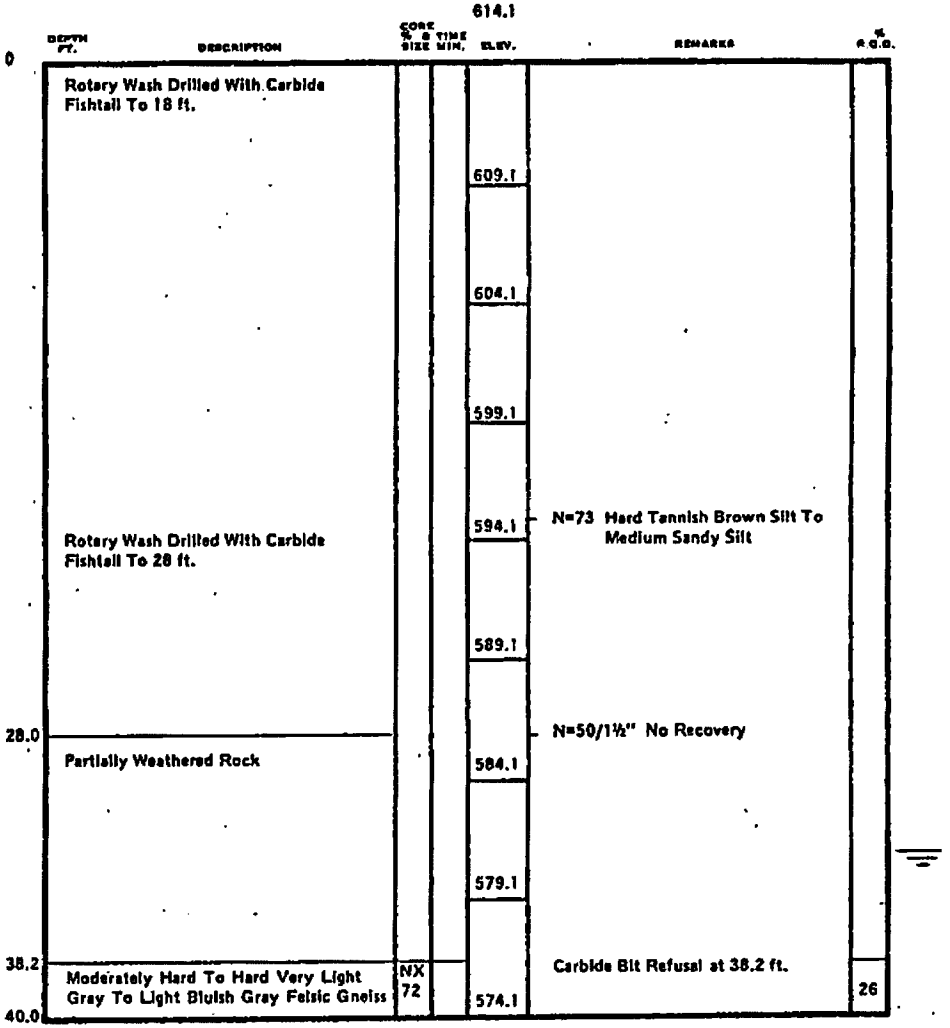
TEST BORING RECORD

BORING NO. B-94P

DATE DRILLED 10-4-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 1 of 3

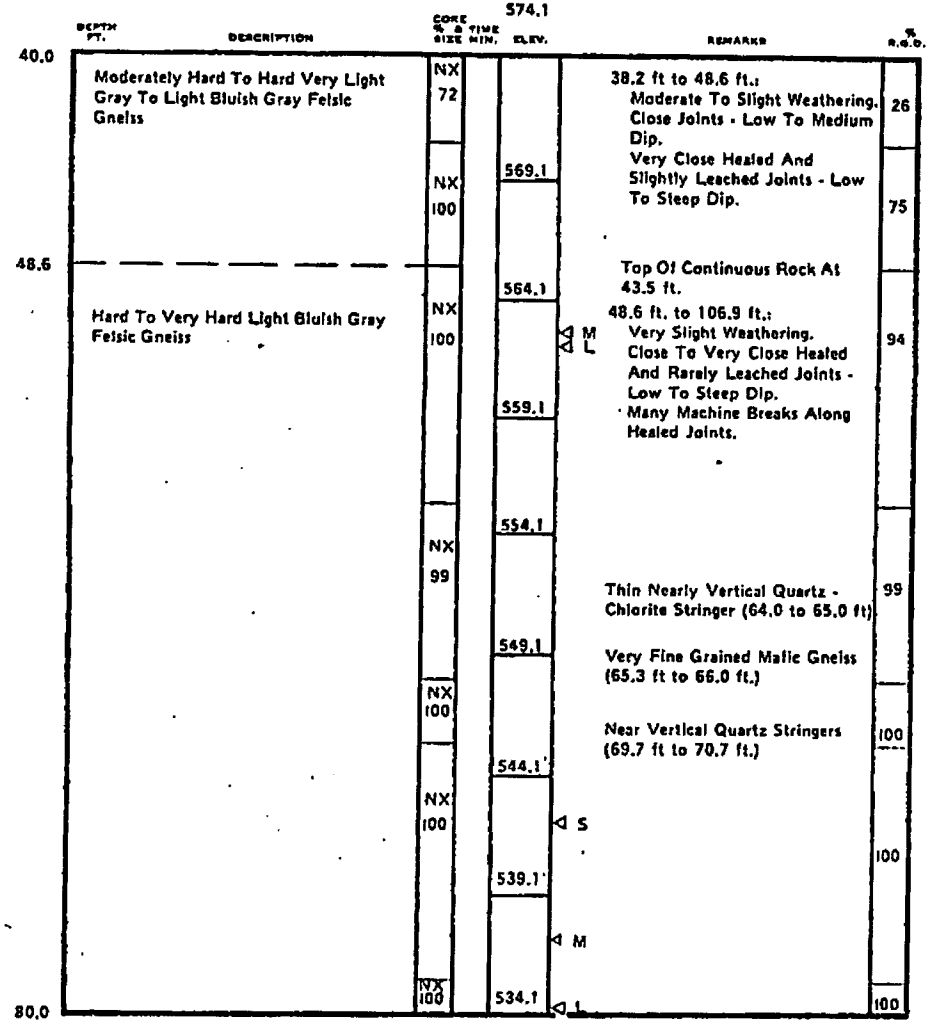
TEST BORING RECORD

BORING NO. B-95P

DATE DRILLED 10-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

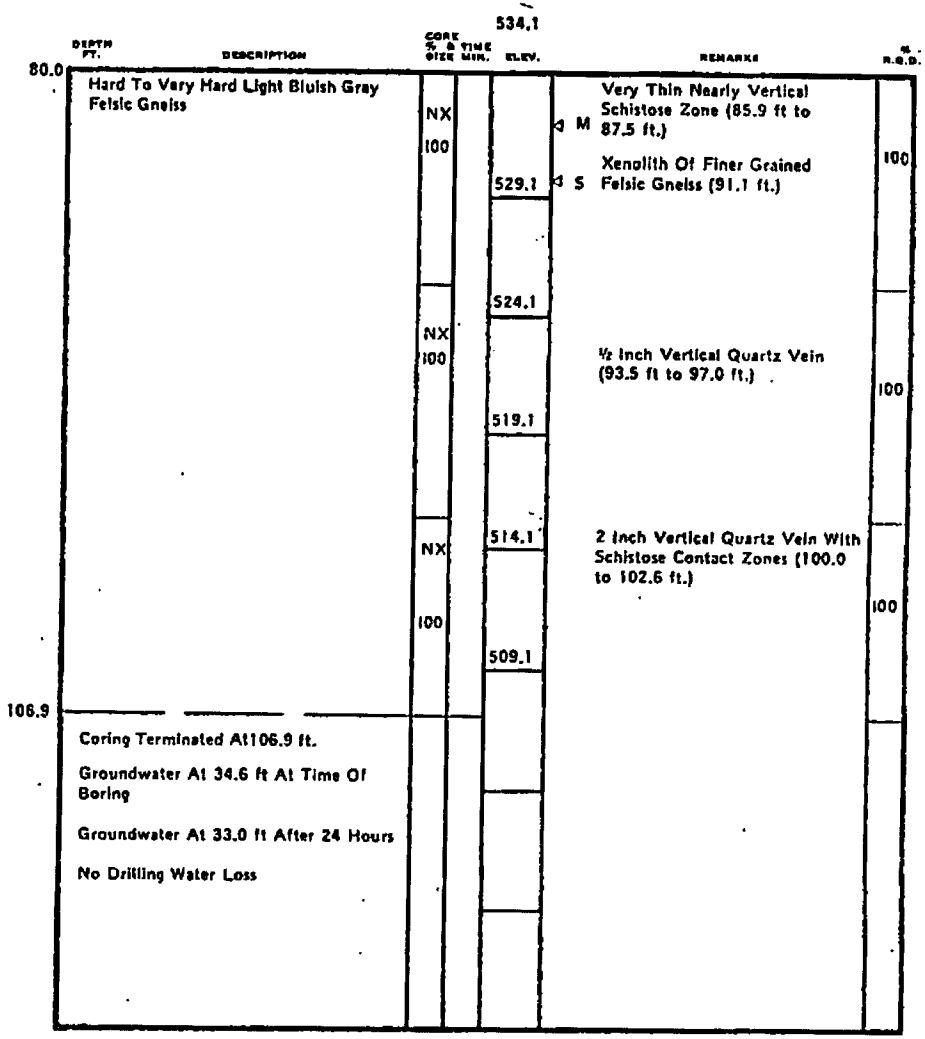
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-95P
DATE DRILLED 10-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

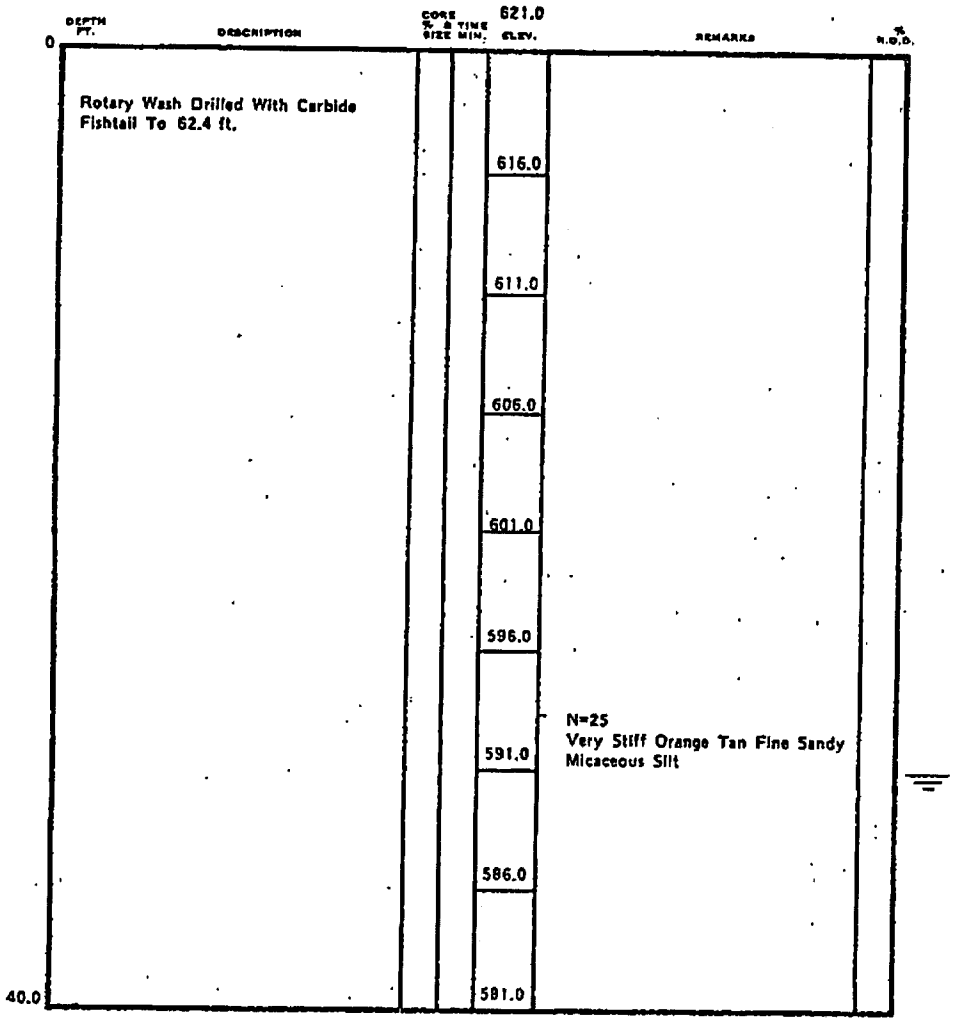
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-95P
DATE DRILLED 10-18-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

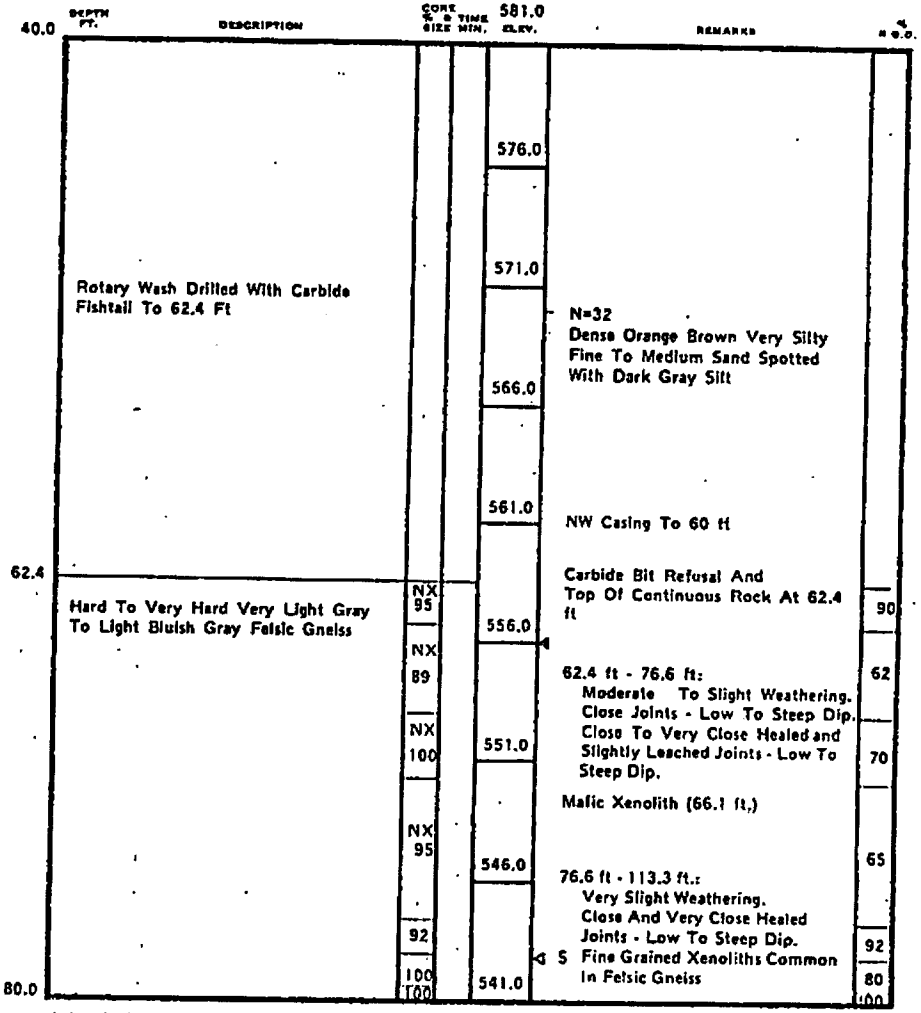
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-96P
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

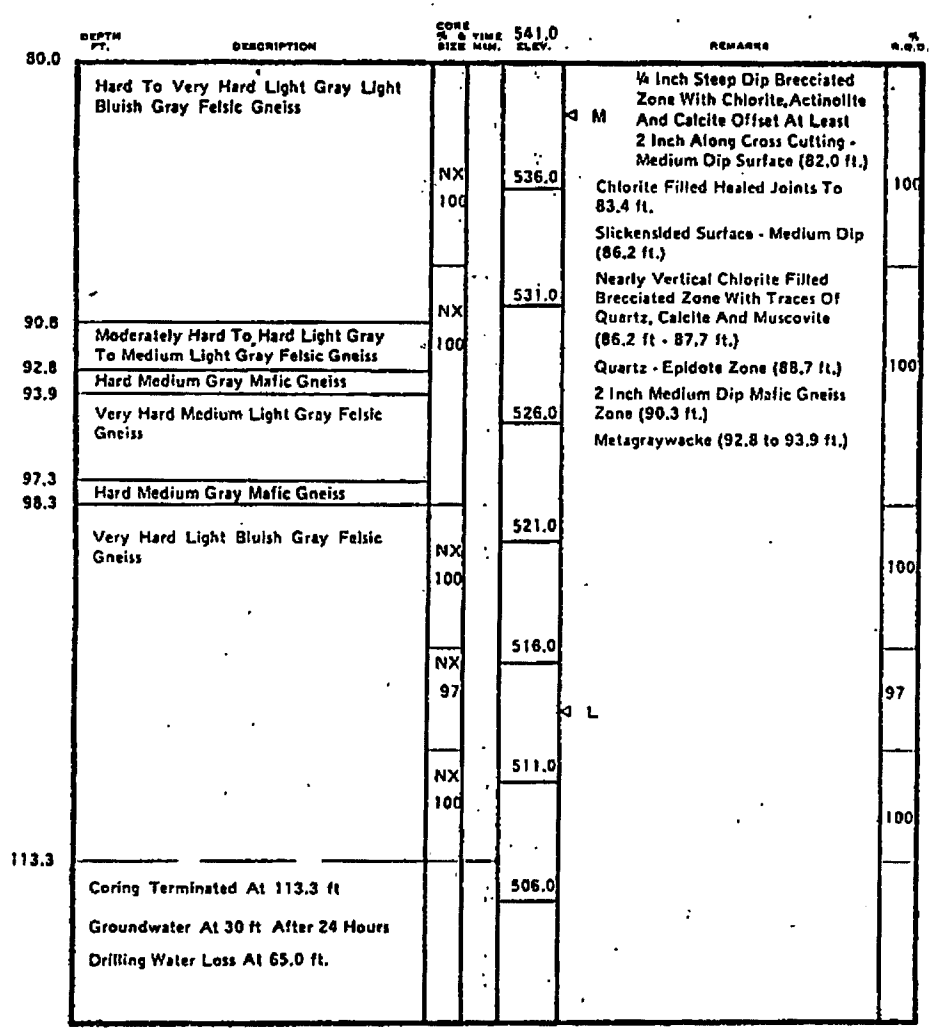
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-96P
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

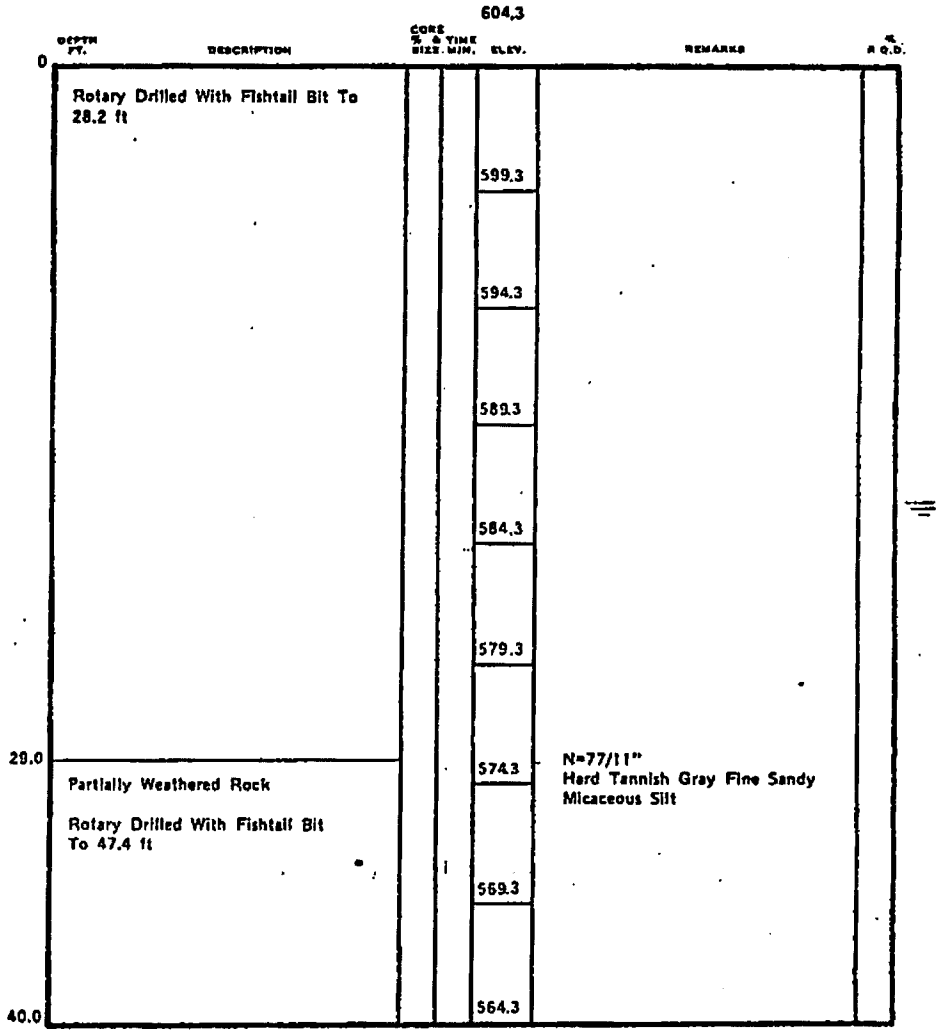
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-96P
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-97P
DATE DRILLED 10-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

564.3

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
40.0	Partially Weathered Rock Rotary Drilled With Fishtail Bit To 47.4 ft.			559.3		
47.4	Hard Light Bluish Gray Felsic Gneiss	100		554.3	S · Carbide Bit Refusal And Top Of Continous Rock At 47.4 ft. L M Steep Contact With Mafic Gneiss (47.5 ft.) L S Leached Irregular Quartz Stringers: 48.1 ft. 49.9 ft.	69
53.2	Moderately Hard To Hard Dark Greenish Gray To Dark Gray Mafic Gneiss	NX 100		549.3	L 47.4 ft - 53.2 ft.: Slight Weathering. Very Close Healed, Filled And Slightly Leached Joints With Quartz And Chlorite - Low To Steep Dip.	89
60.2	Hard To Very Hard Light Bluish Gray Felsic Gneiss	NX 100		544.3	53.2 ft - 60.2 ft.: Schistose And Brecciated Zone. Moderate To Slight Weathering. Leached Zone: 53.5 to 53.7 ft. 58.6 to 58.9 ft. Quartz Vein 55.8 ft - 58.6 ft. Steeply Dipping Contacts: 53.2 ft. 60.2 ft.	
				539.3	60.2 ft - 88.6 ft.: Very Slight Weathering. Very Close Healed And Filled Joints With Quartz, Chlorite And Calcite - Low To Steep Dip.	91
		NX 100		534.3	L ⅜ Inch Medium Dip Quartz Vein With Schistose Contacts (65.5 ft.) S Leached Zone (67.0 to 68.0 ft.)	
				529.3	L M L	88
80.0		100		524.3		100

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-97P
DATE DRILLED 10-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

524.3

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
80.0	Hard To Very Hard Light Bluish Gray Felsic Gneiss	NX 100		519.3	2 Inch, Medium Dip Quartz Vein (87.8 ft.)	100
88.6	Coring Terminated At 88.6 ft Groundwater At 18.0 ft At Time Of Boring Groundwater At 18.0 ft After 24 Hours No Drilling Water Loss			514.3		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

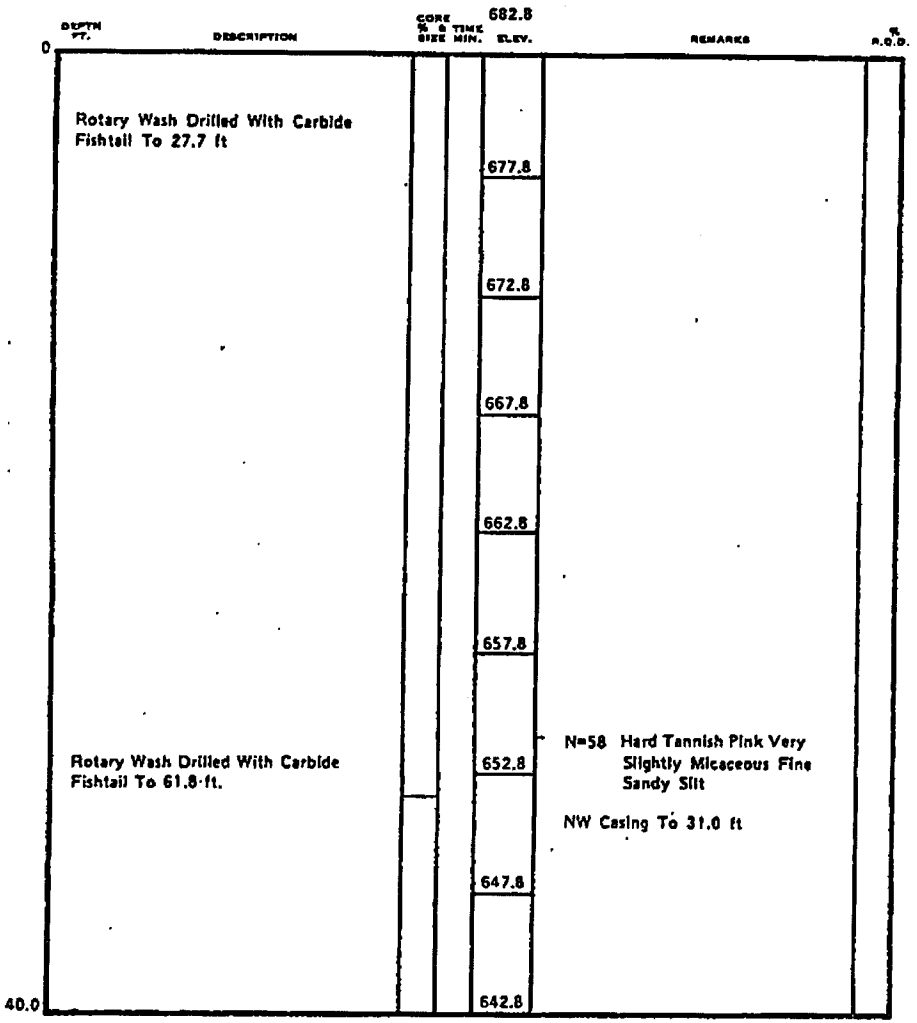
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-97P
DATE DRILLED 10-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

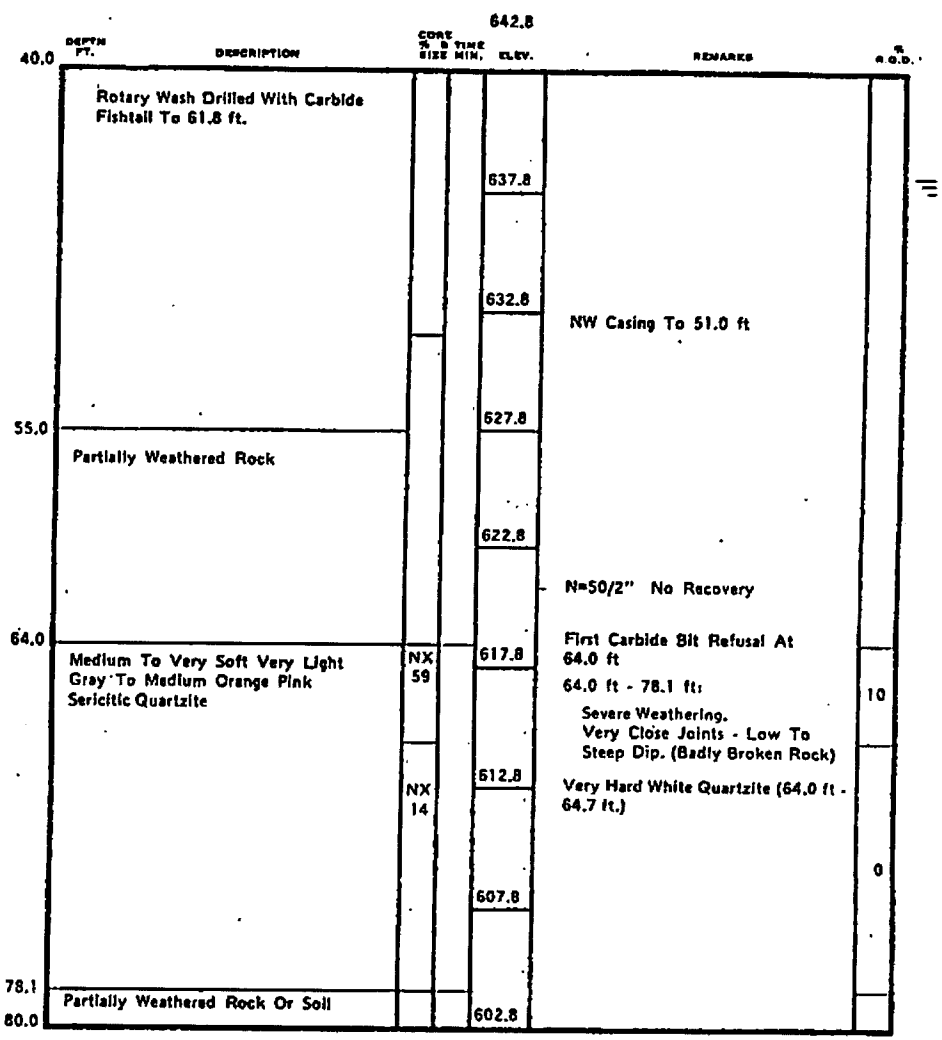
ROCK JOINT:
L = LOW DIP 0-35°
M = MED. DIP 35°-60°
S = STEEP DIP 60°-90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-98P
DATE DRILLED 10-5-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

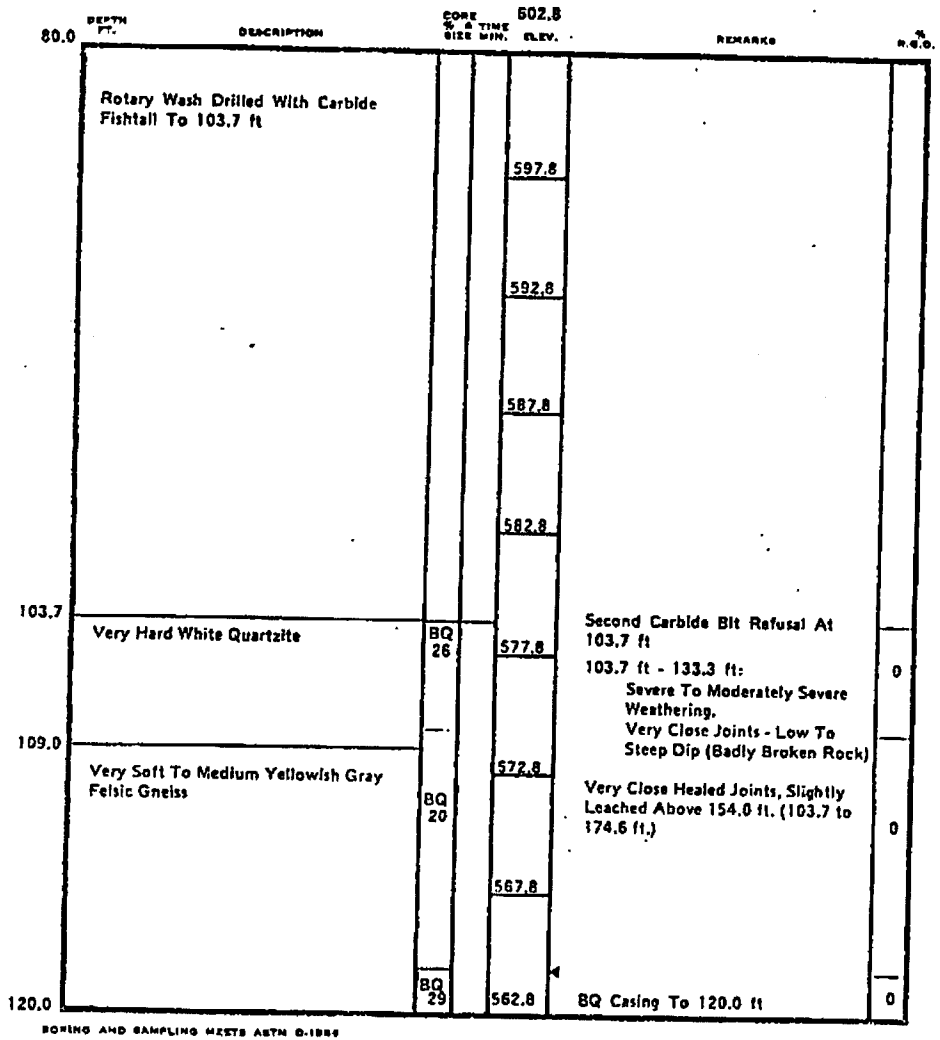
ROCK JOINT:
L = LOW DIP 0-35°
M = MED. DIP 35°-60°
S = STEEP DIP 60°-90°

Page 2 of 5

TEST BORING RECORD

BORING NO. B-98P
DATE DRILLED 10-8-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

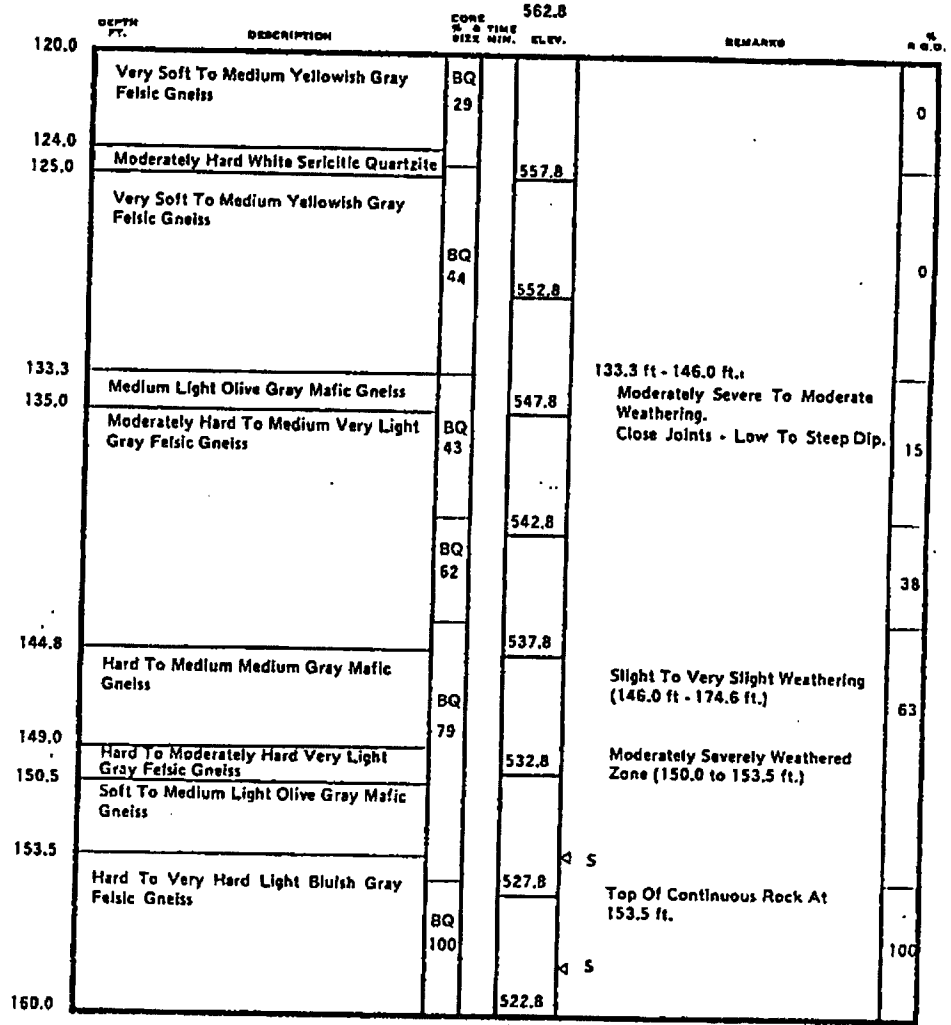
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP. 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 5

TEST BORING RECORD

BORING NO. B-98P
DATE DRILLED 10-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

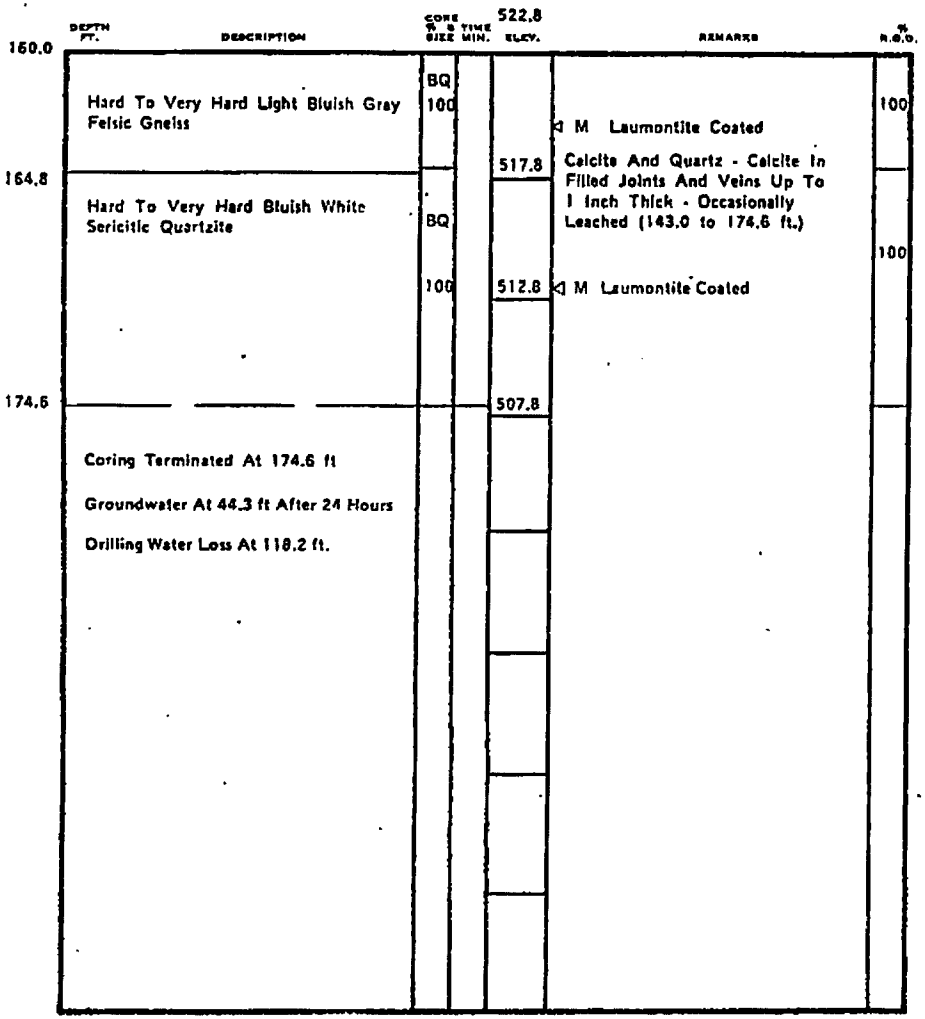
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 4 of 5

TEST BORING RECORD

BORING NO. B-98P
DATE DRILLED 10-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

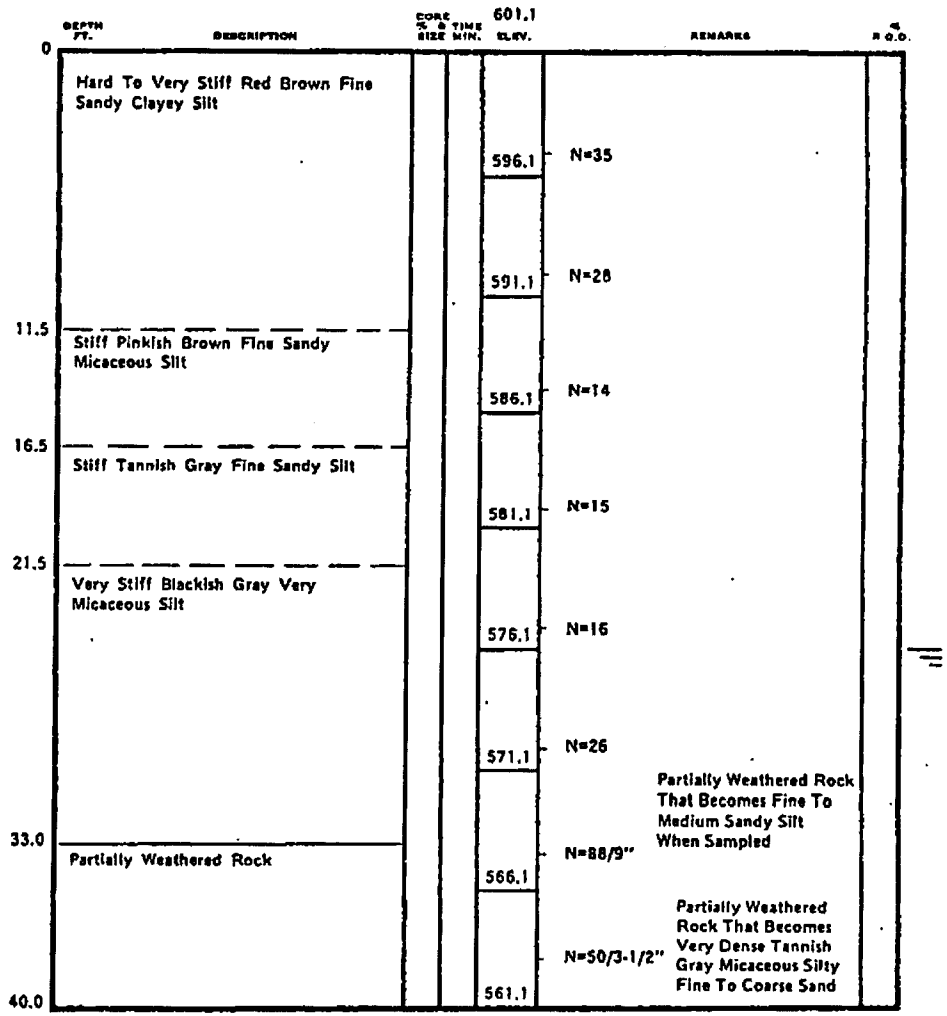
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-98P
DATE DRILLED 10-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

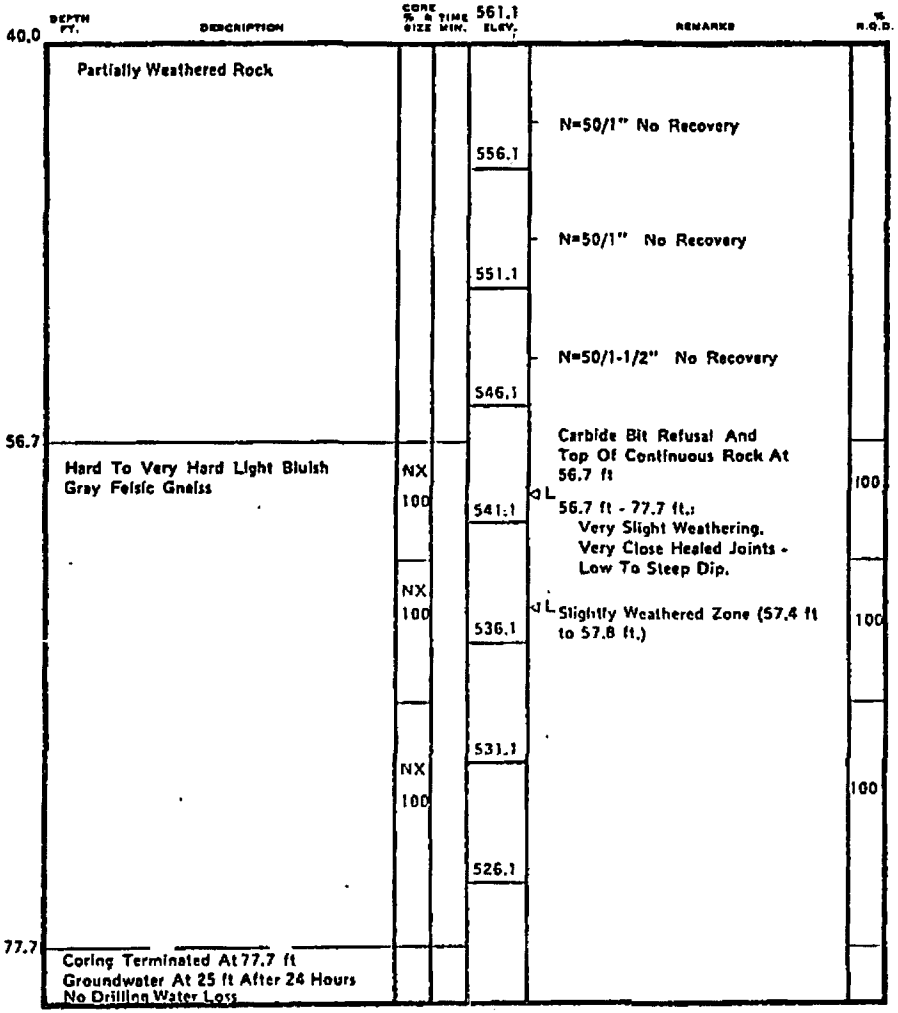
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-99
DATE DRILLED 10-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

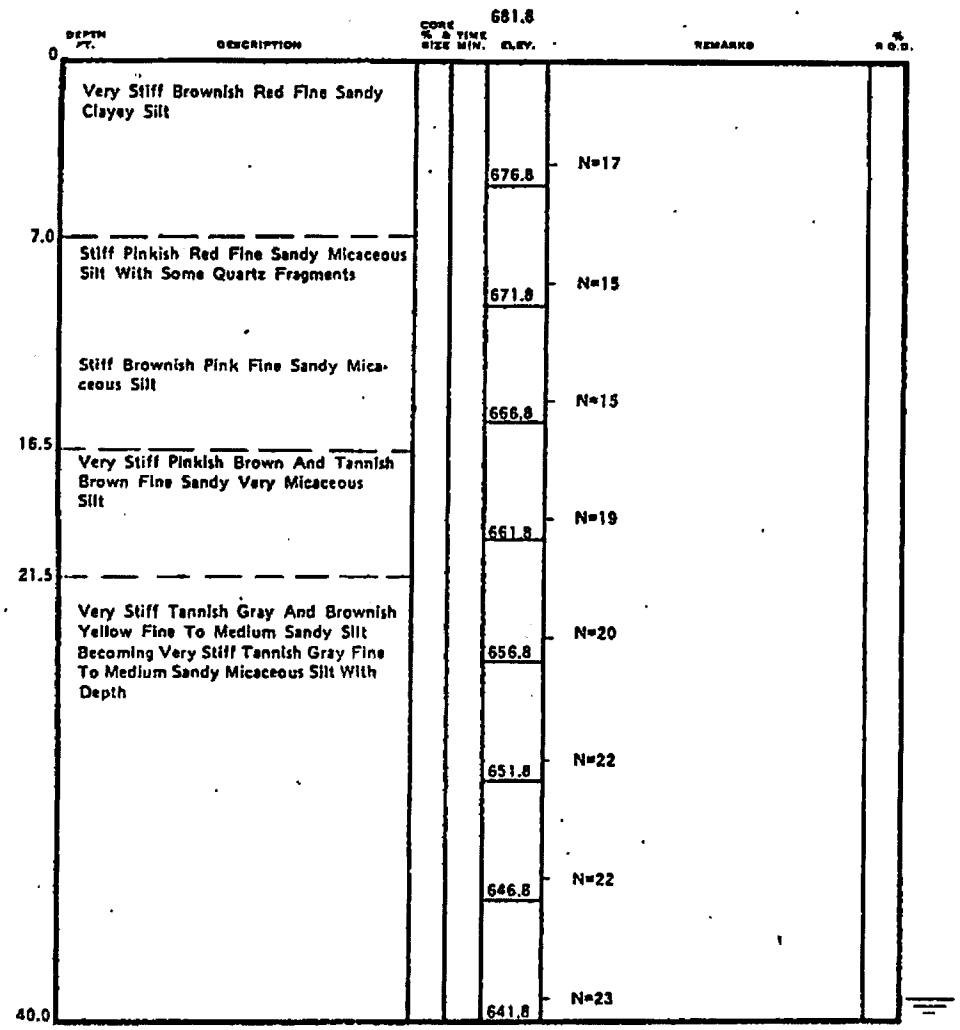
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50/1 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-99
DATE DRILLED 10-15-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

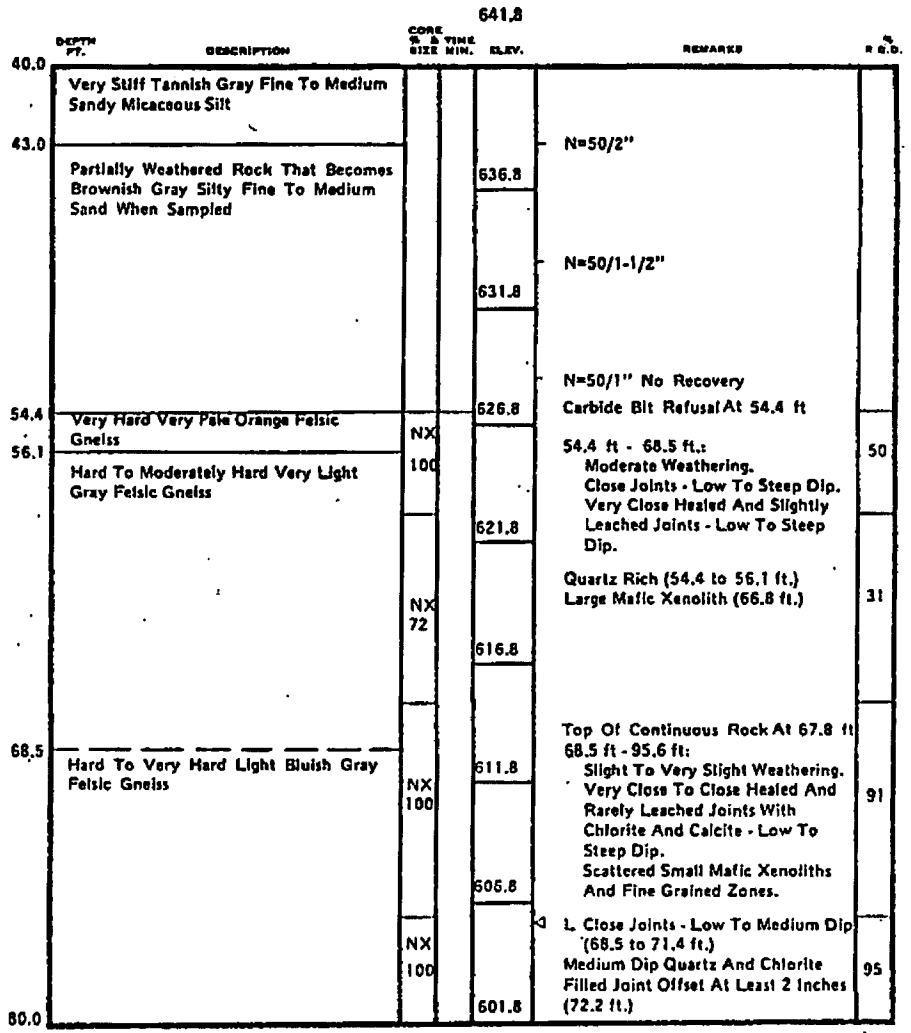
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-100
DATE DRILLED 10-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

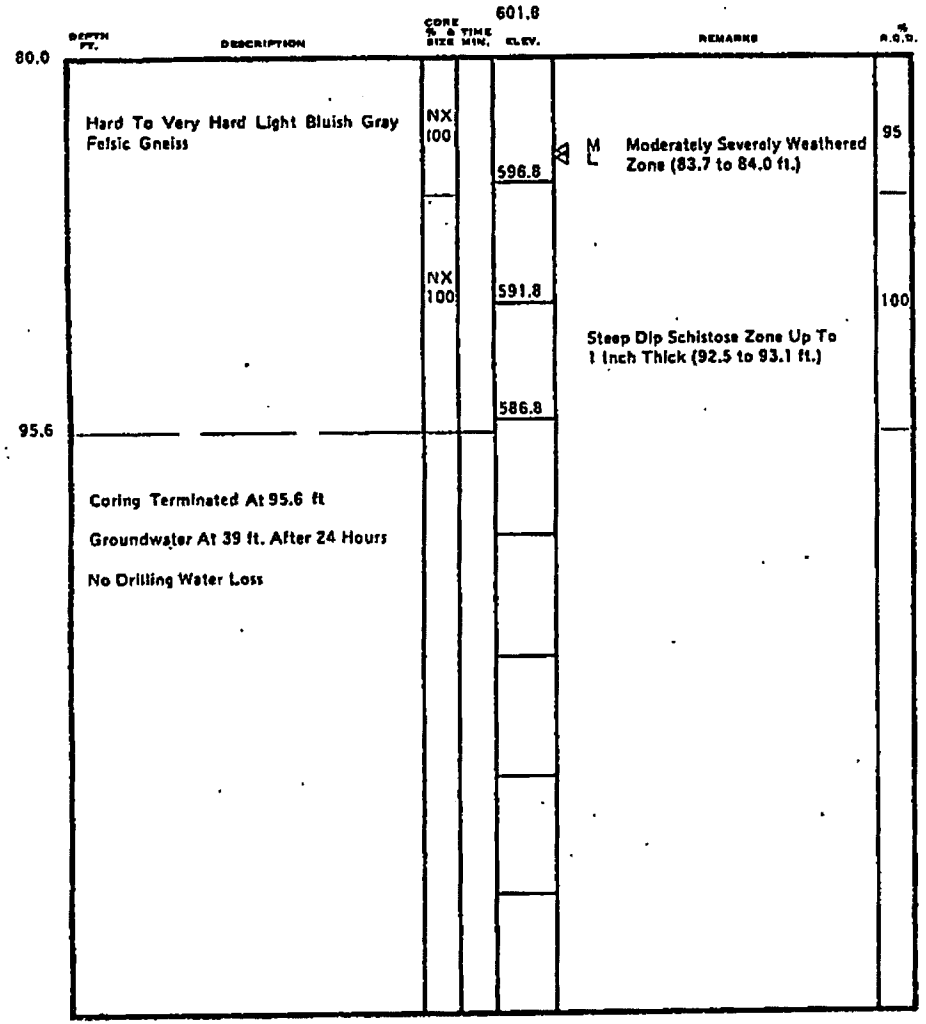
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-100
DATE DRILLED 10-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

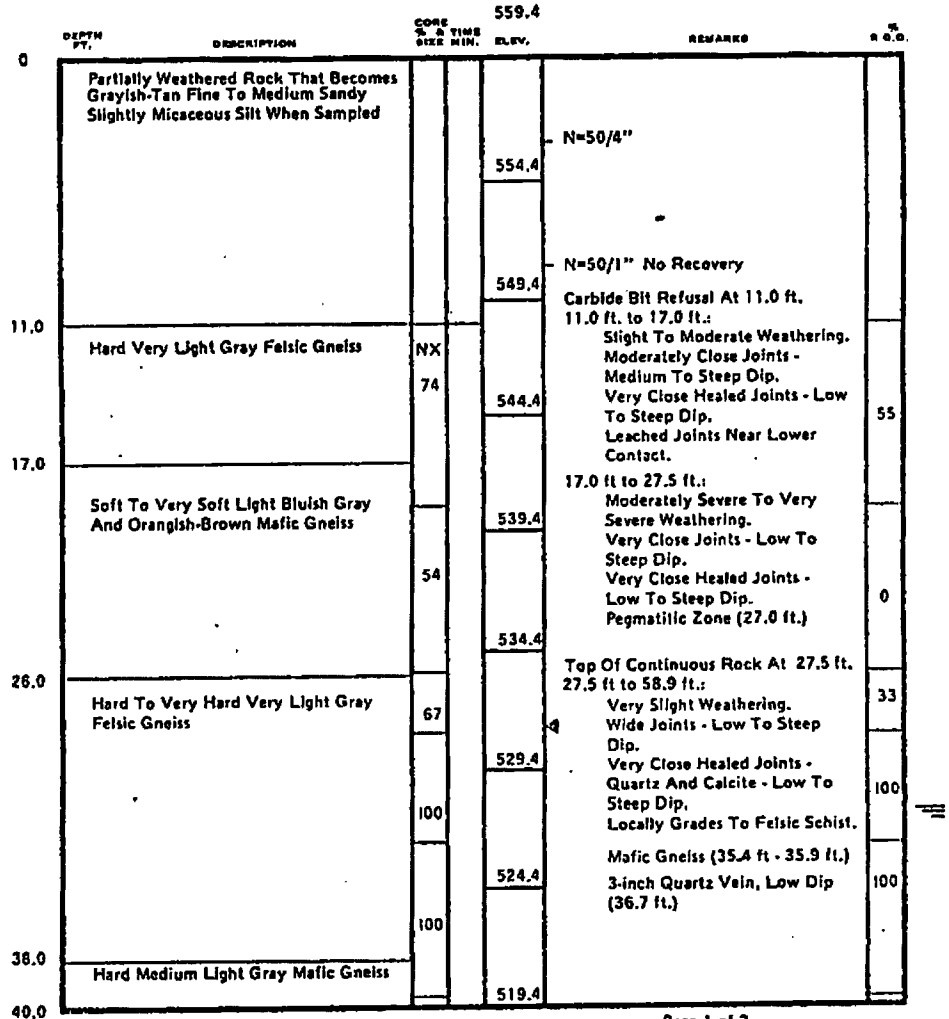
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-100
DATE DRILLED 10-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

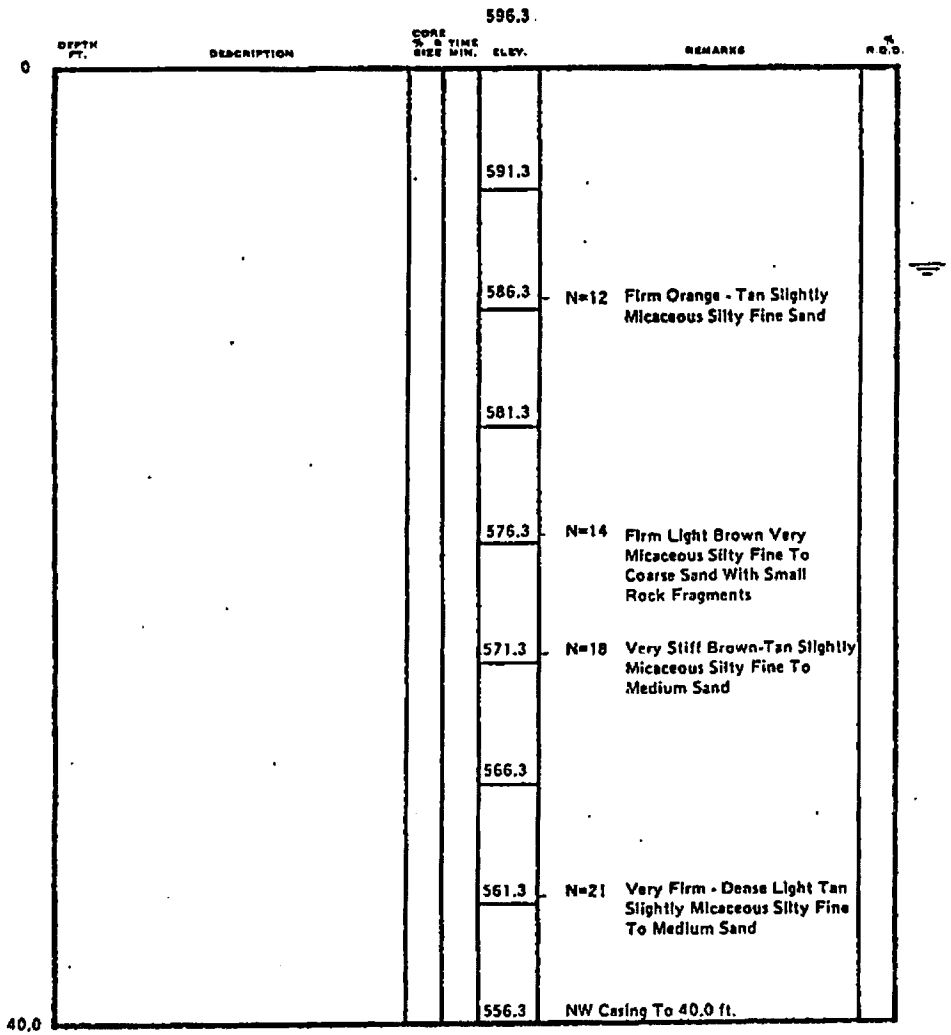
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-101
DATE DRILLED 11-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

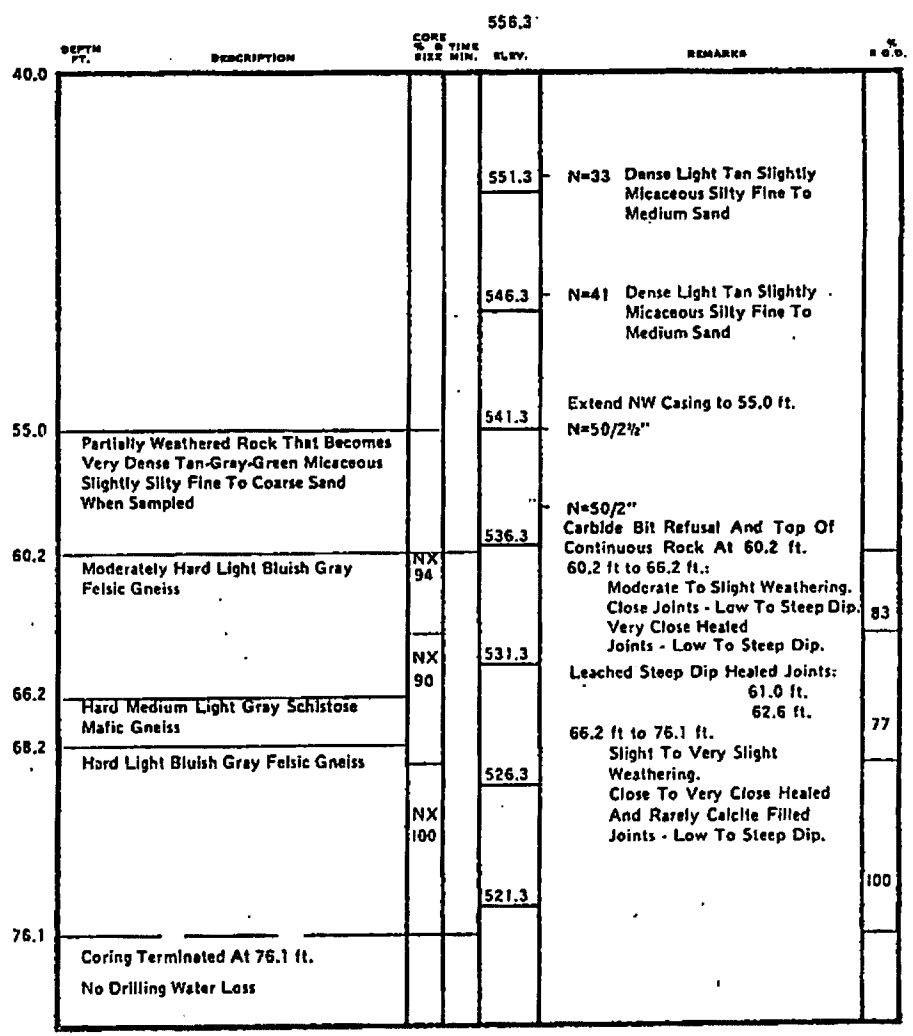
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-128P
DATE DRILLED 10-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

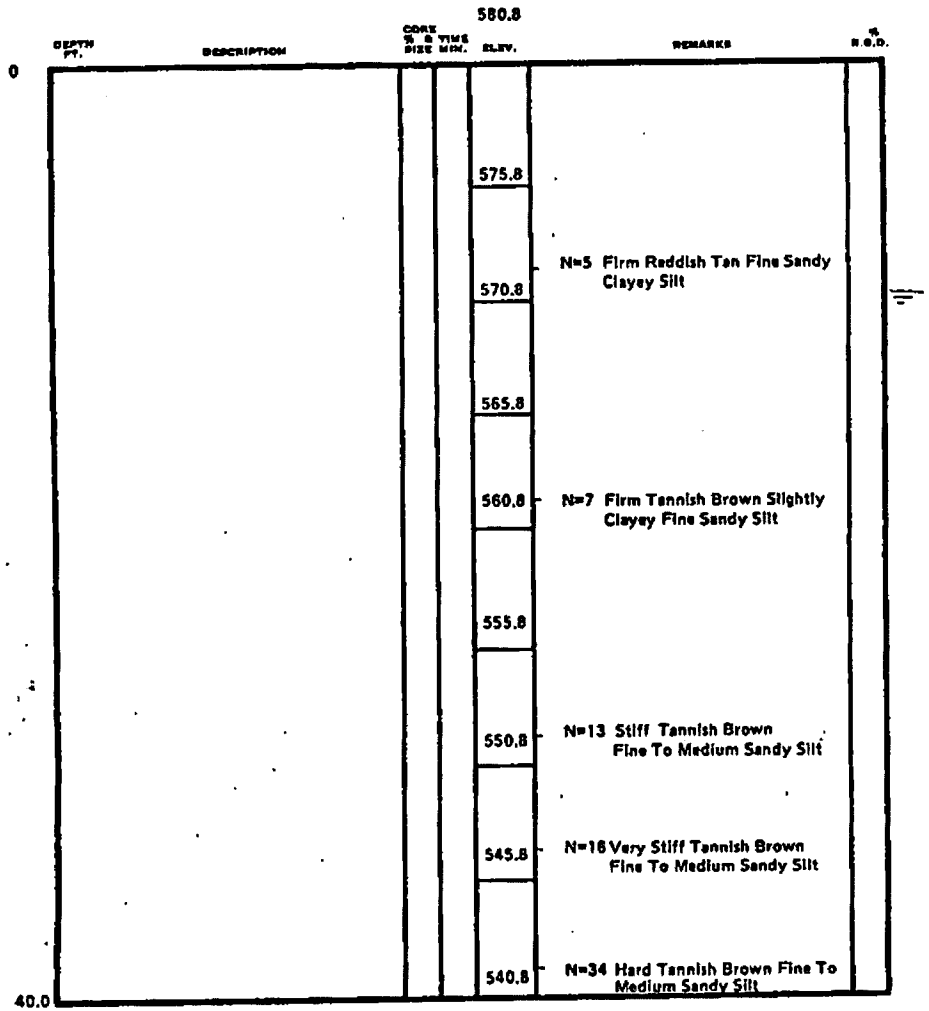
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-128P
DATE DRILLED 10-24-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

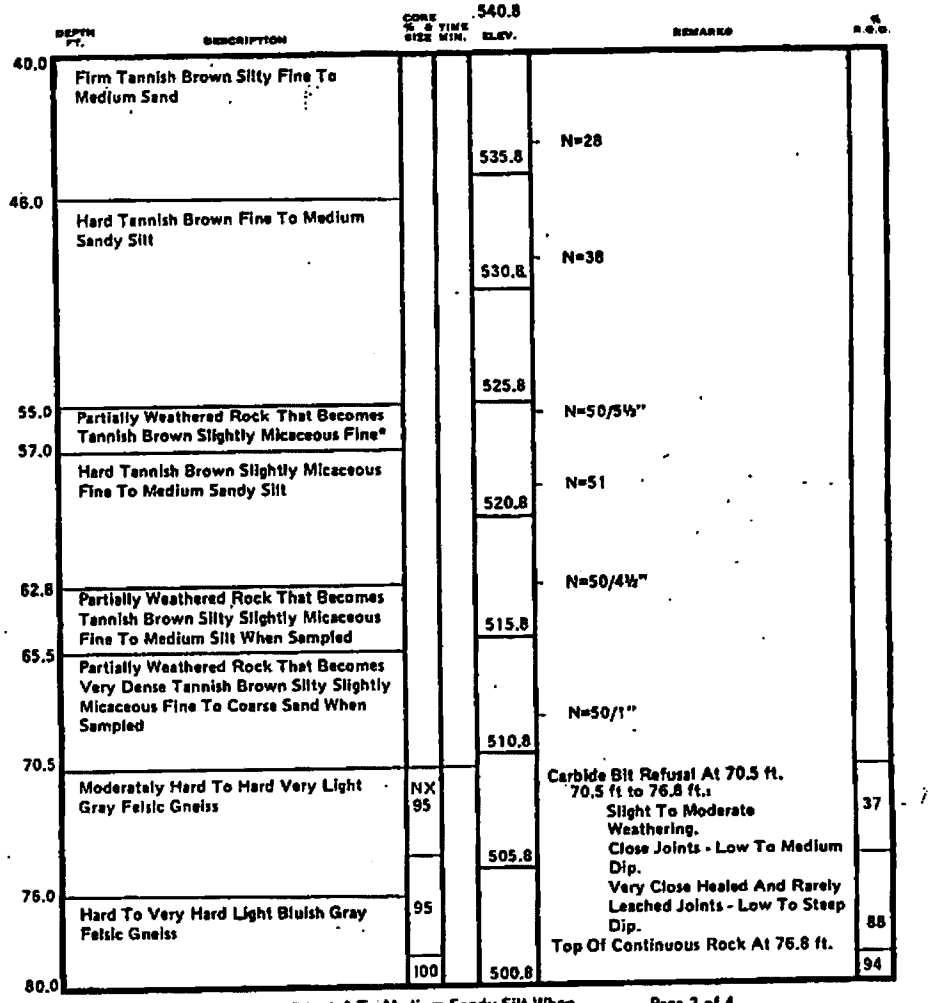
ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-129P
DATE DRILLED 10-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

* To Medium Sandy Silt When Sampled

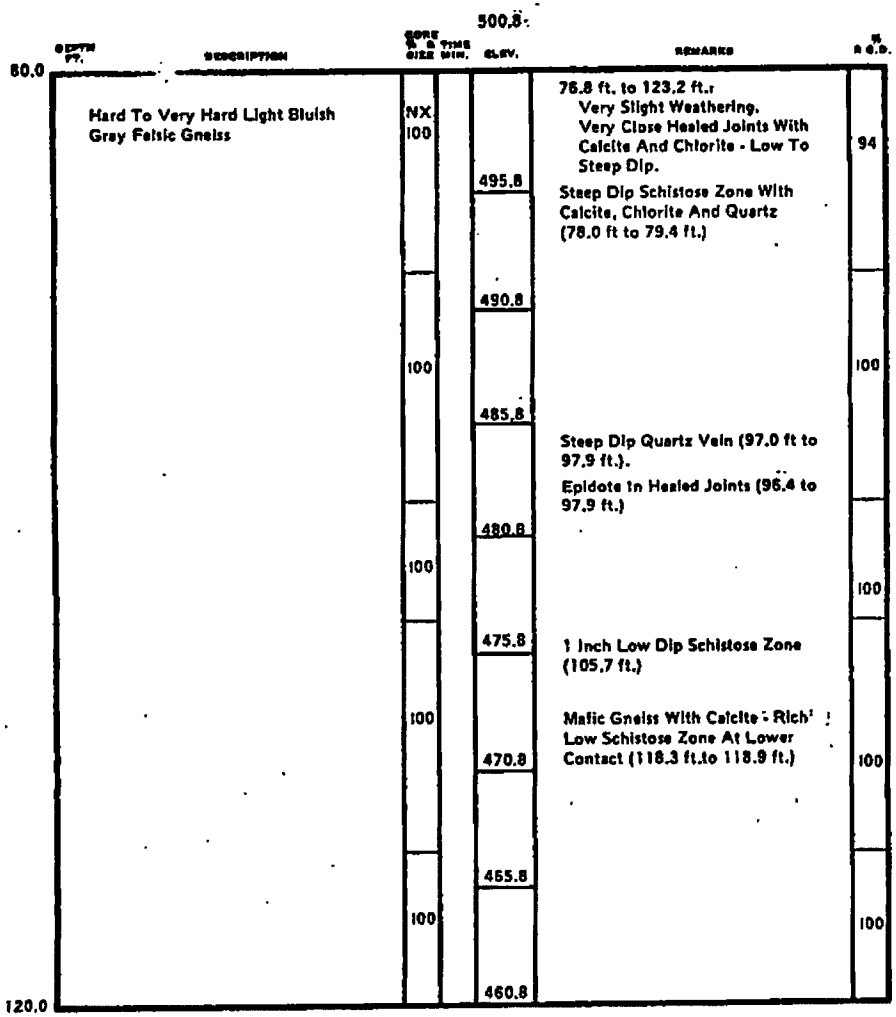
ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-129P
DATE DRILLED 10-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



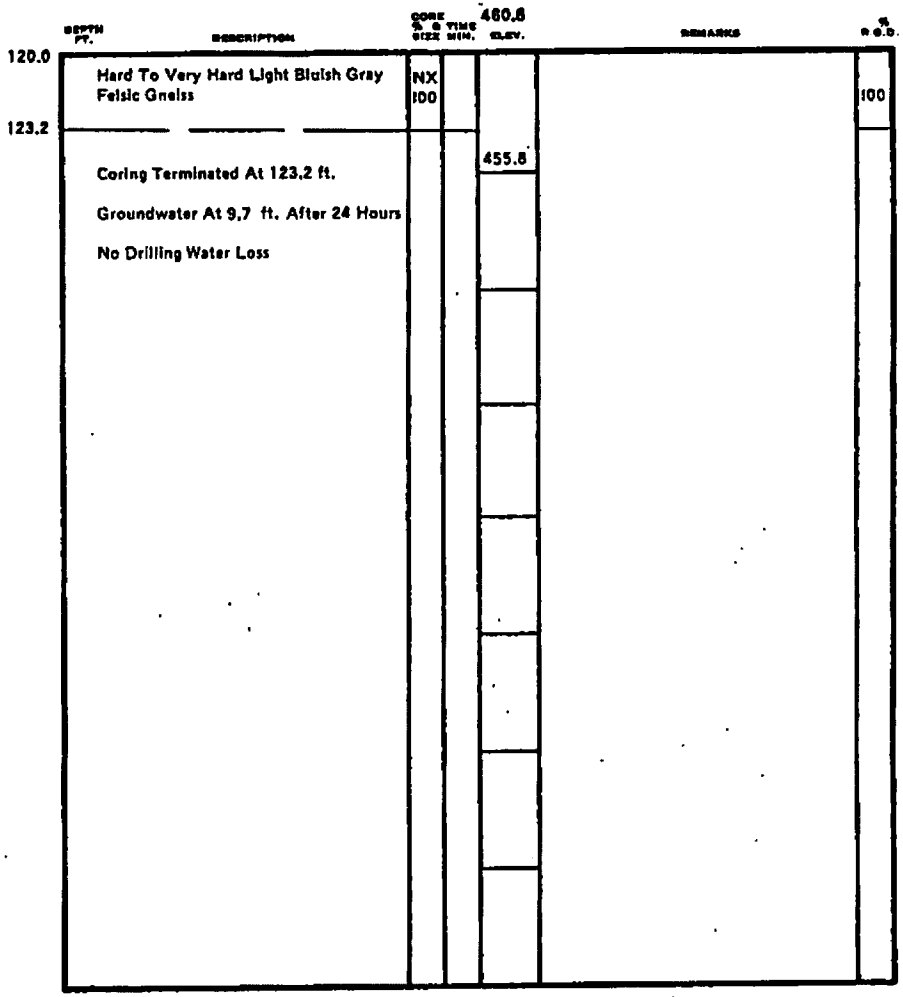
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-129P
DATE DRILLED 10-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



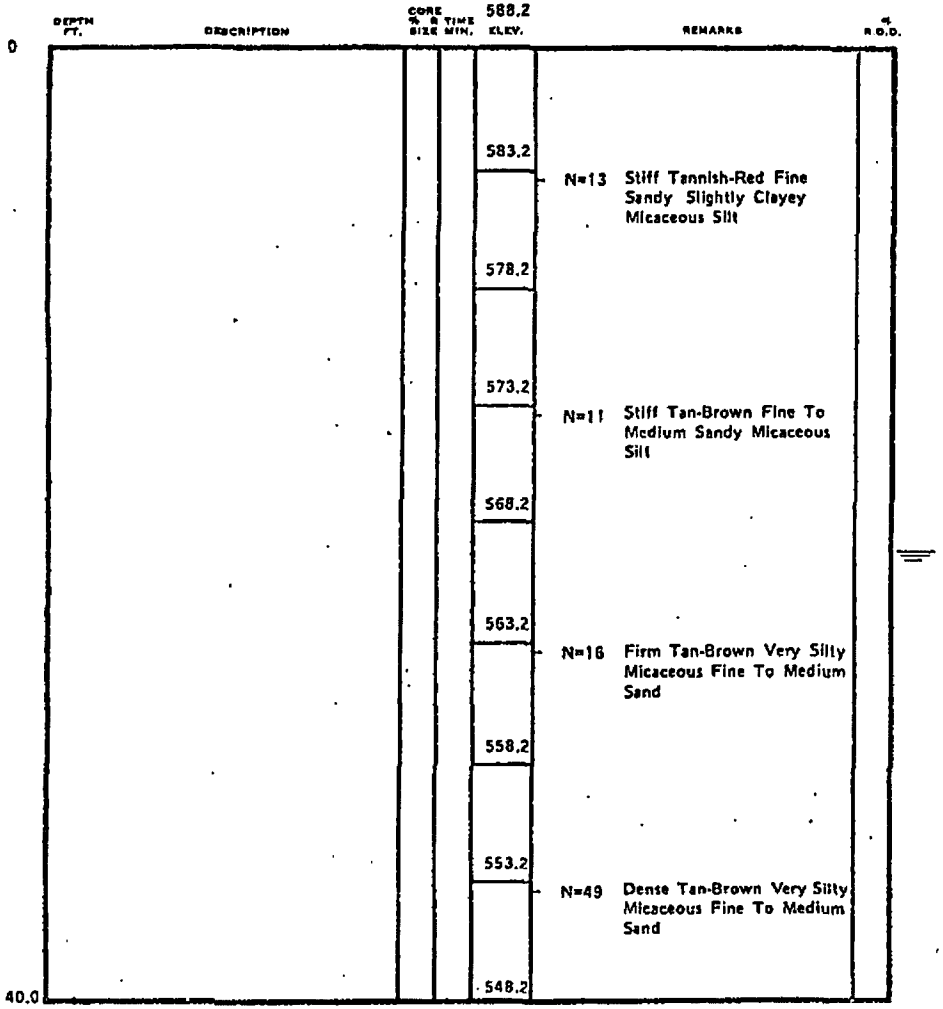
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-129P
DATE DRILLED 10-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

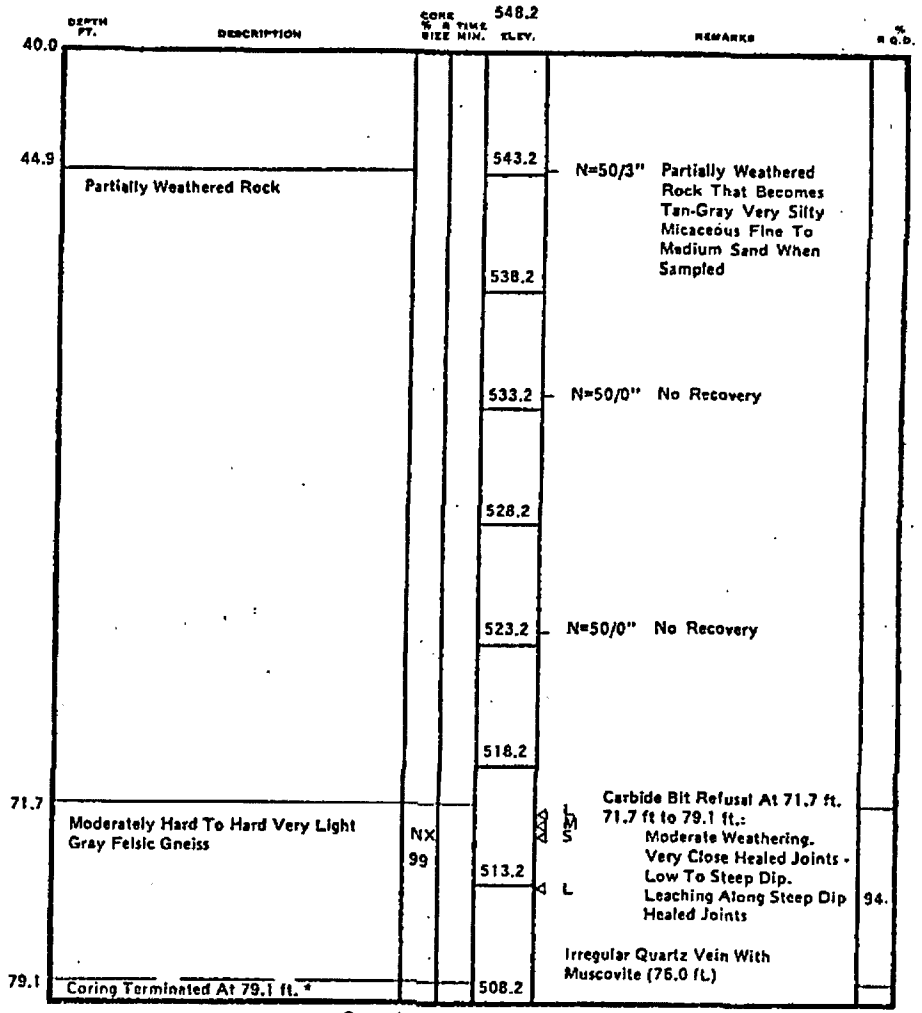
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
5 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-130P
DATE DRILLED 11-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 ★ Groundwater At 21 ft After 24 Hours
CORE DRILLING MEETS ASTM D-2113 No Drilling Water Loss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

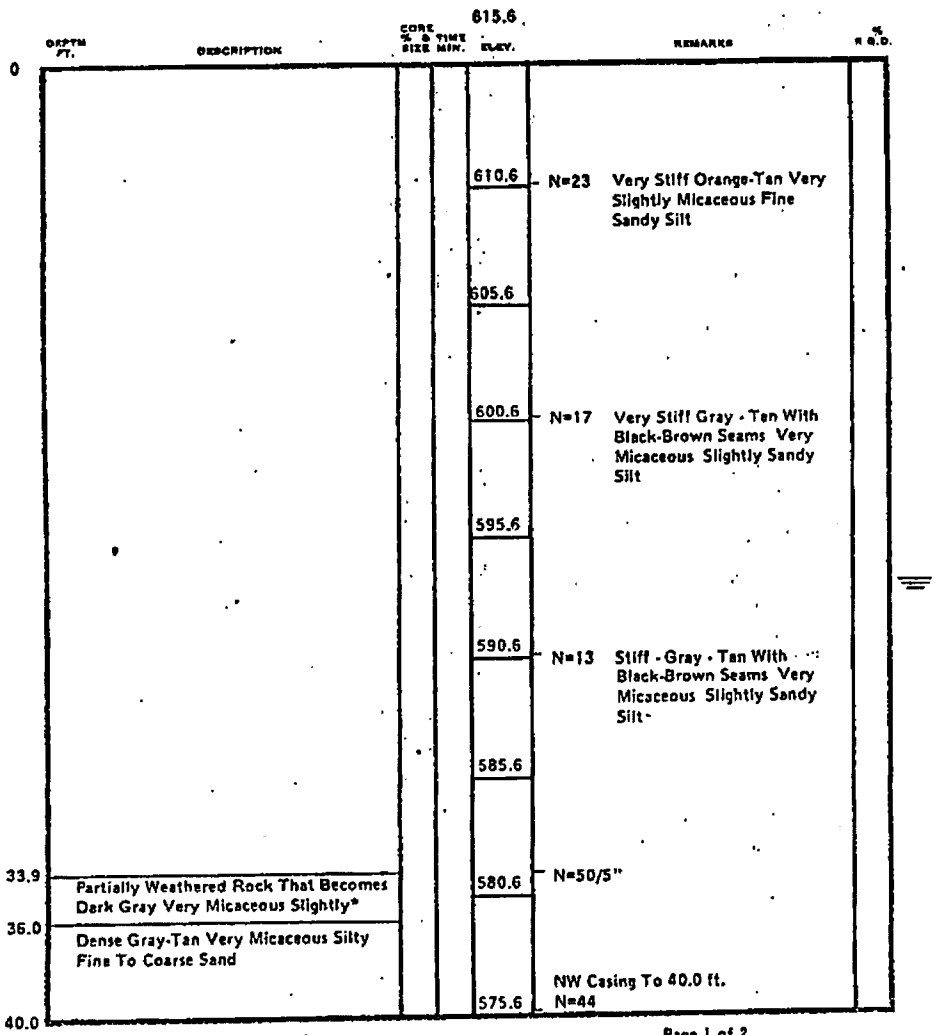
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
5 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-130P
DATE DRILLED 11-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

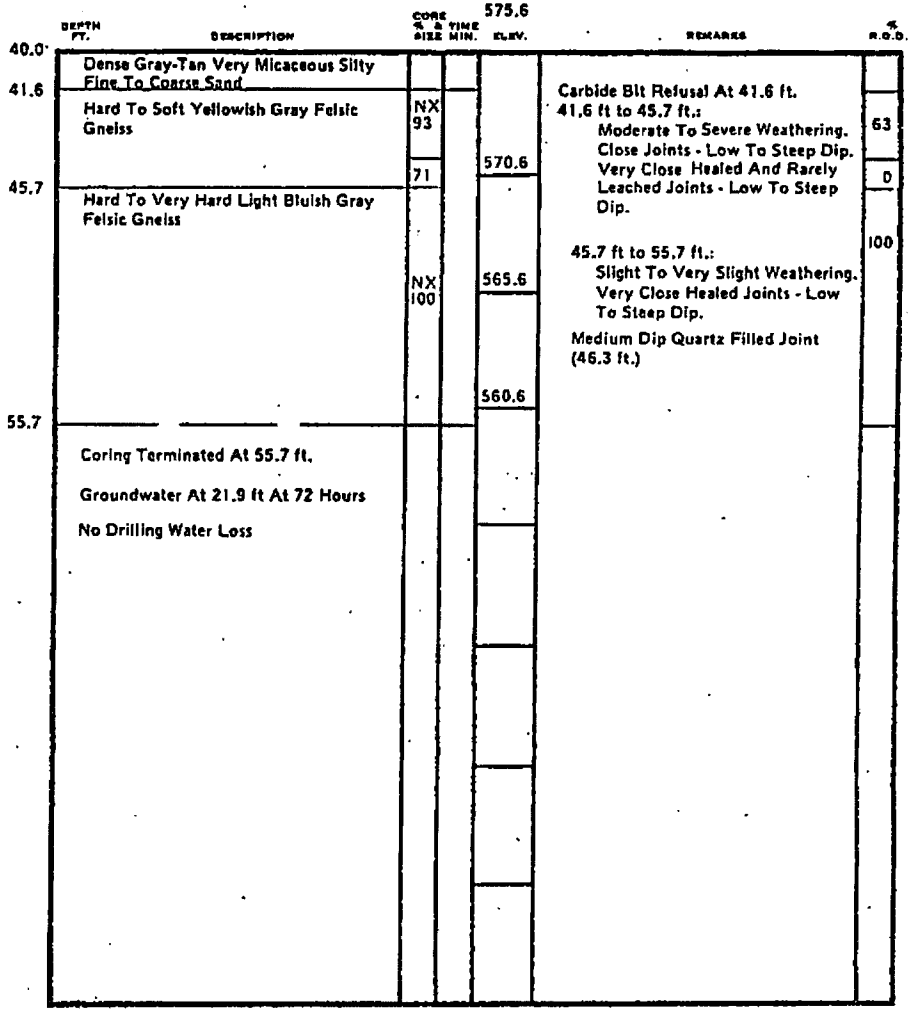
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

*Medium Sandy Silt When Sampled

TEST BORING RECORD

BORING NO. B-131P
DATE DRILLED 10-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

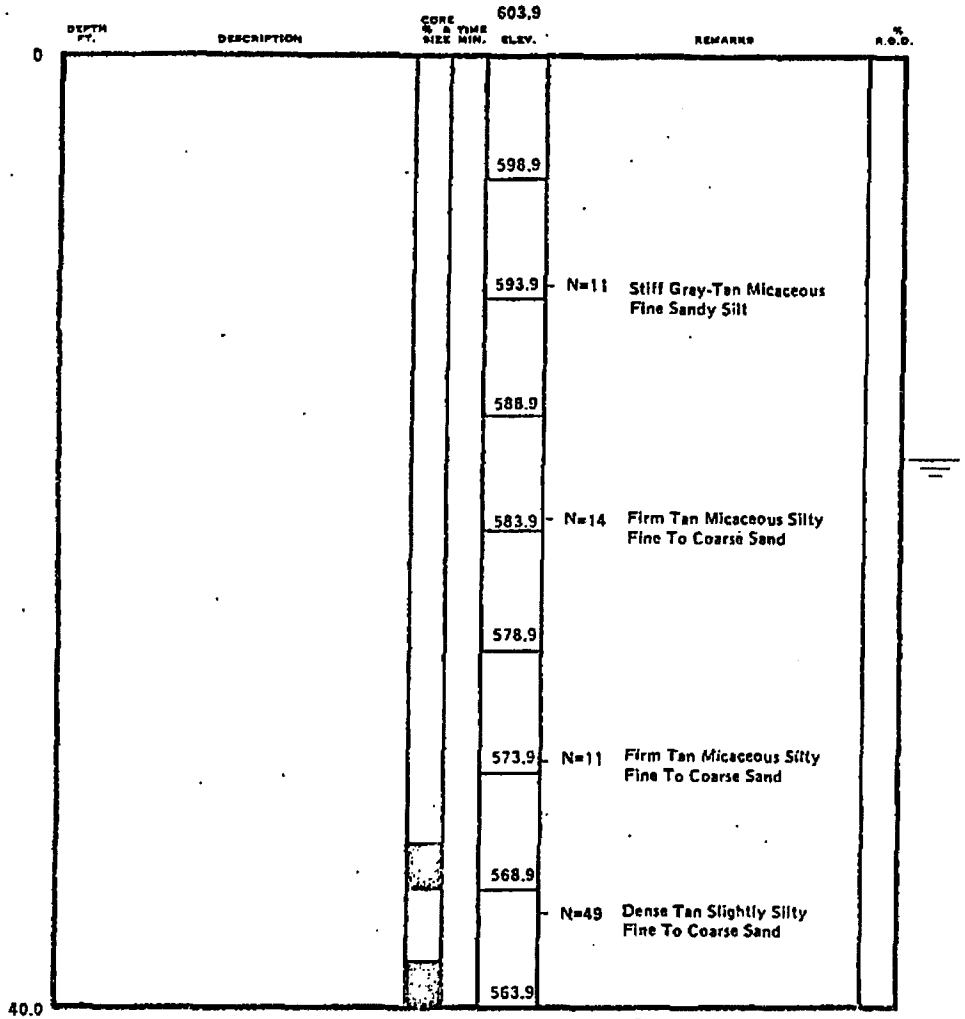
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-131P
DATE DRILLED 10-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

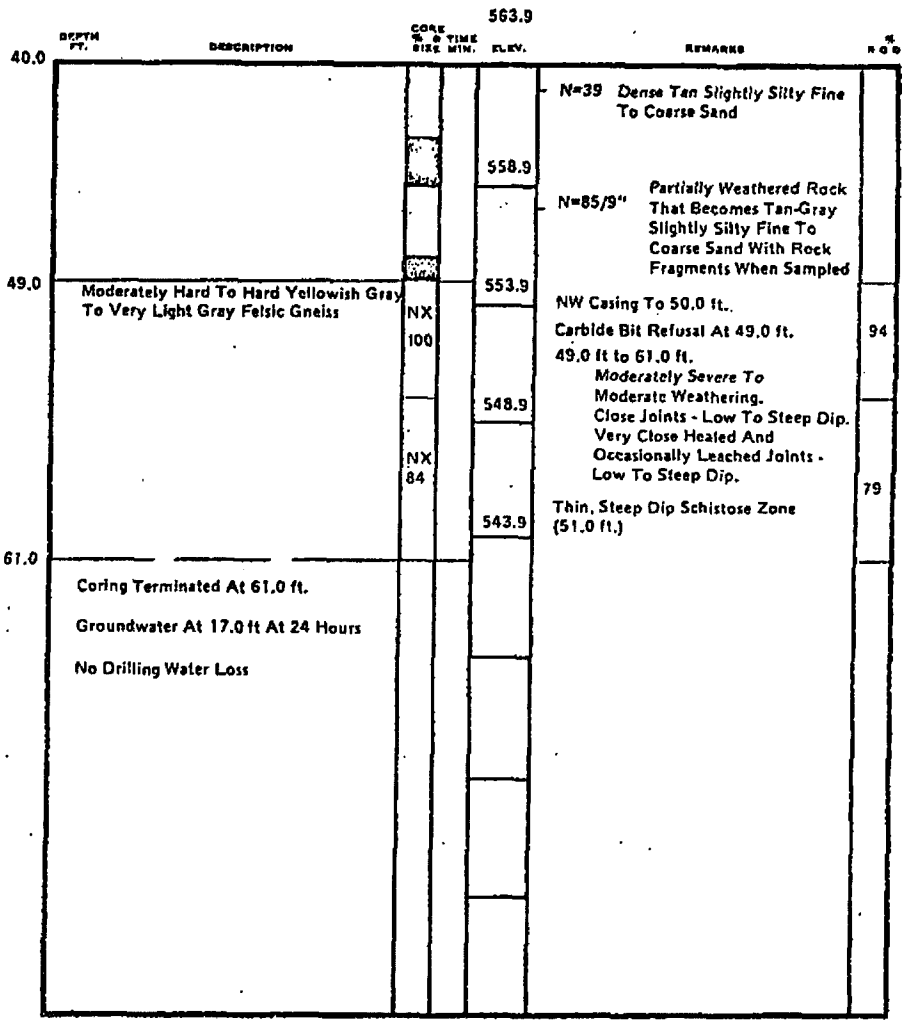
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-132P
DATE DRILLED 10-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50/1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

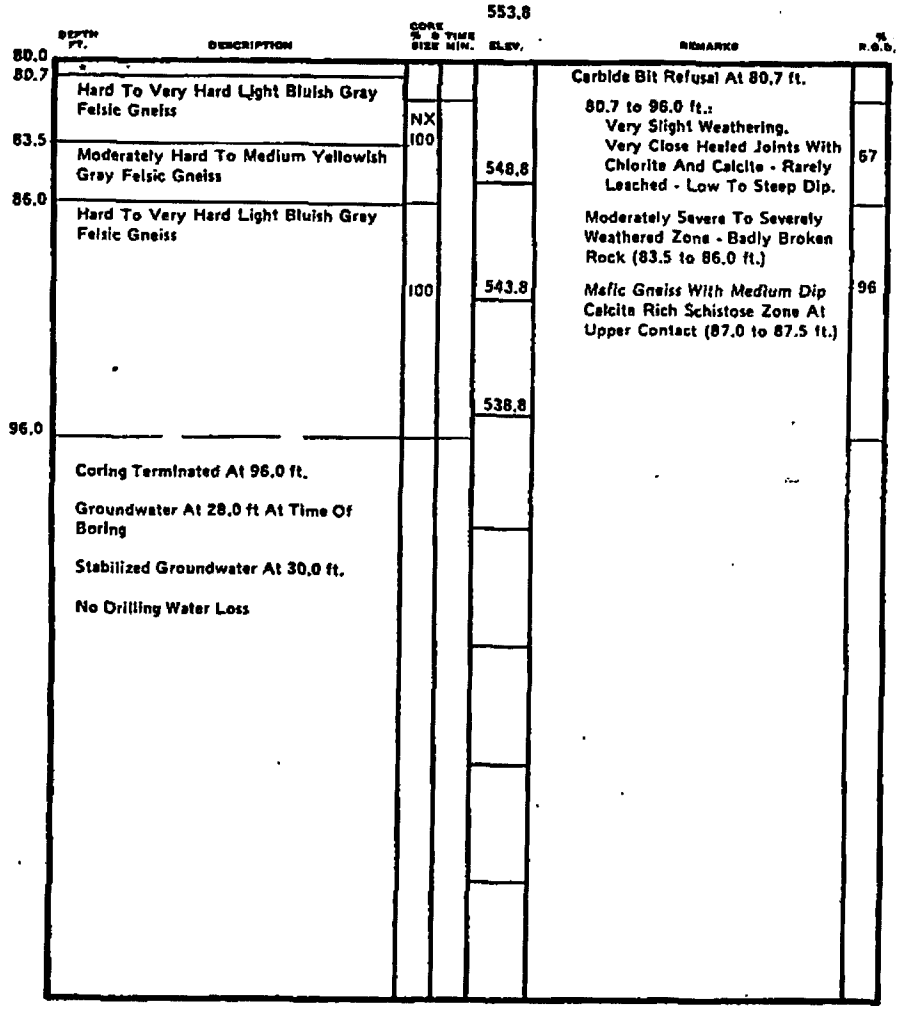
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-132P
DATE DRILLED 10-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

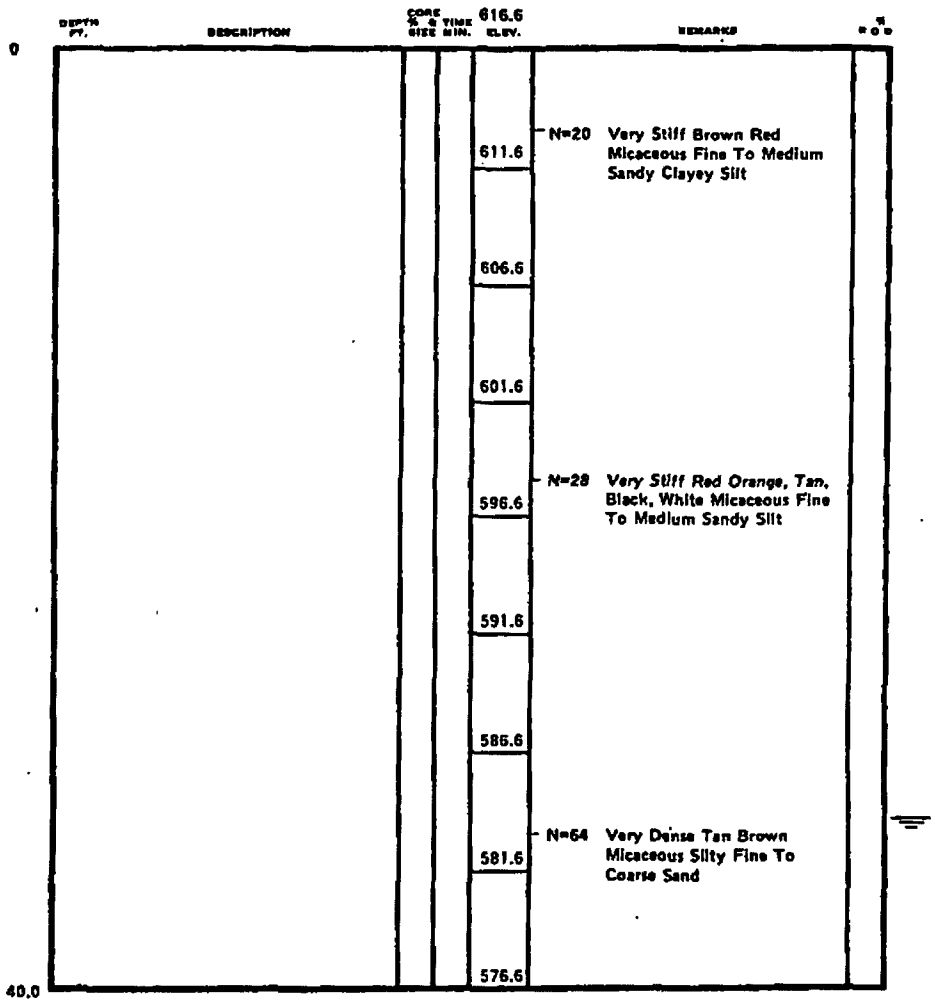
Page 3 of 3

*Very Dense Tan-Gray And Tan-Brown Silty Micaceous Fine To Medium And Fine To Coarse Sand

TEST BORING RECORD

BORING NO. B-135P
DATE DRILLED 10-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

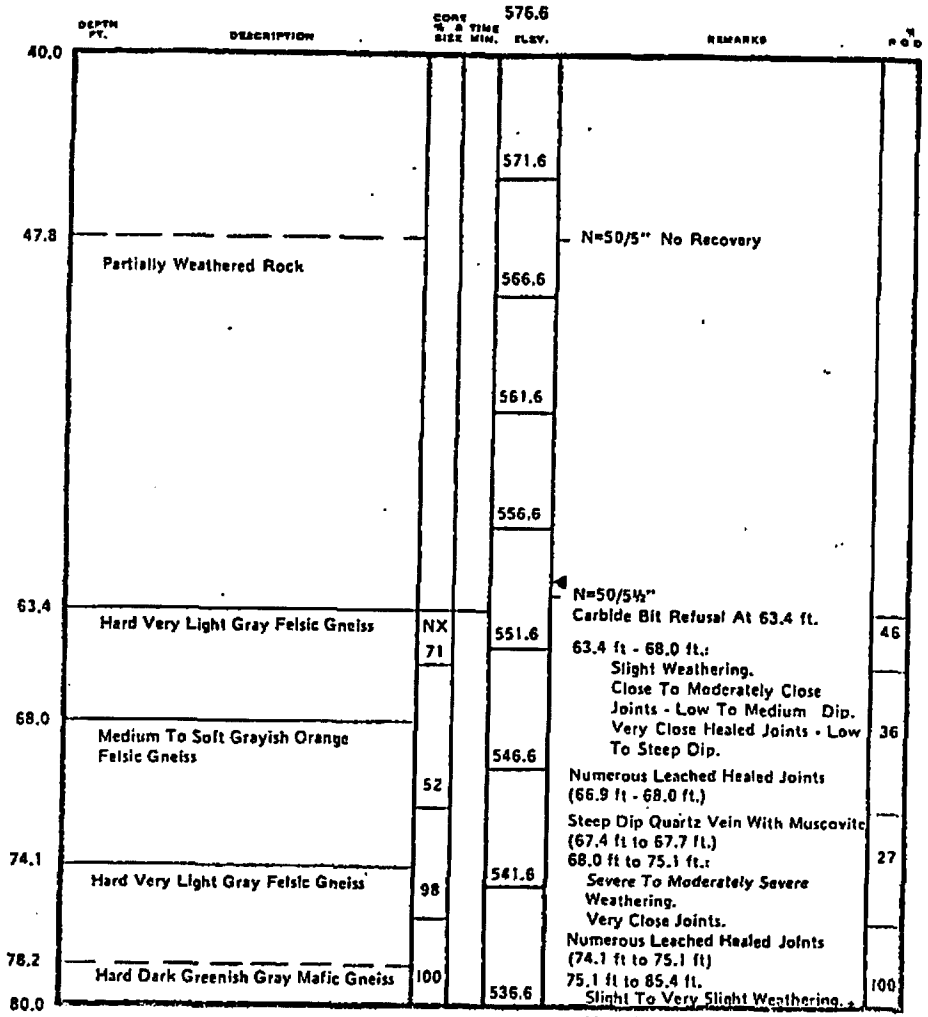
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-136AP
DATE DRILLED 2-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

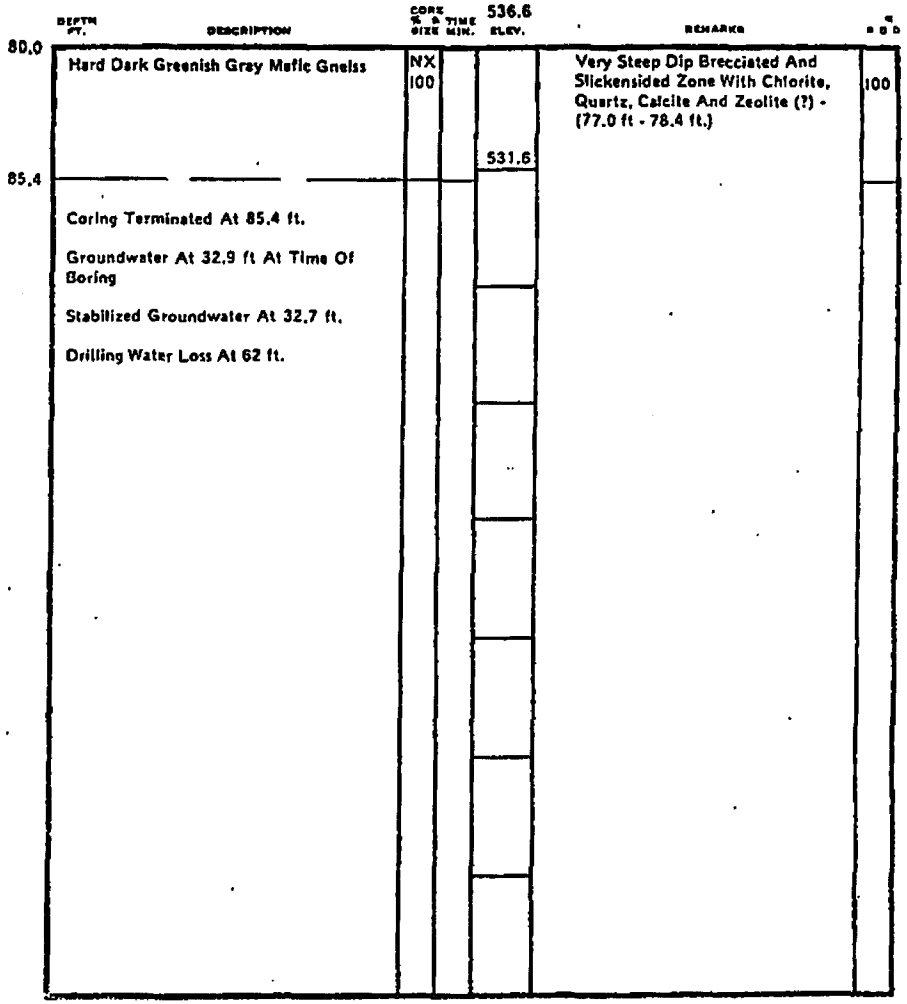
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

* Very Close Healed Joints - Low To Steep Dip.

TEST BORING RECORD

BORING NO. B-136AP
DATE DRILLED 2-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

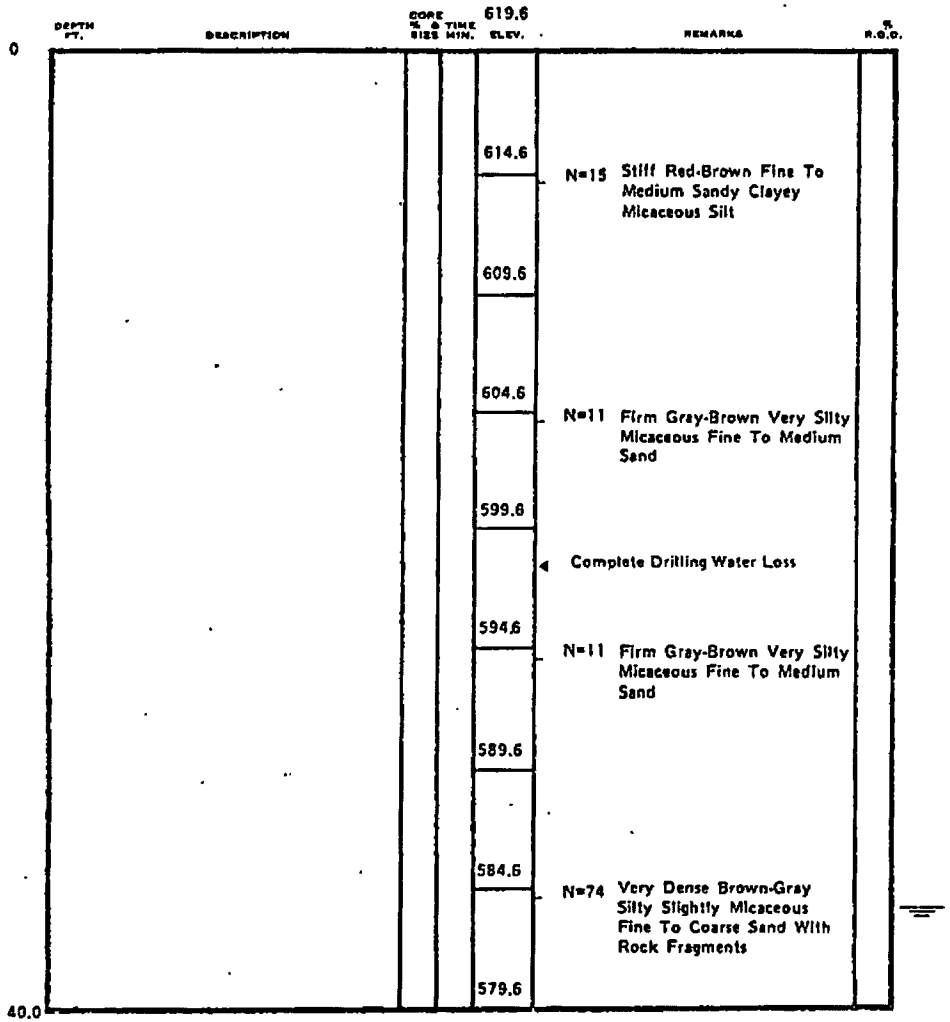
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-136AP
DATE DRILLED 2-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

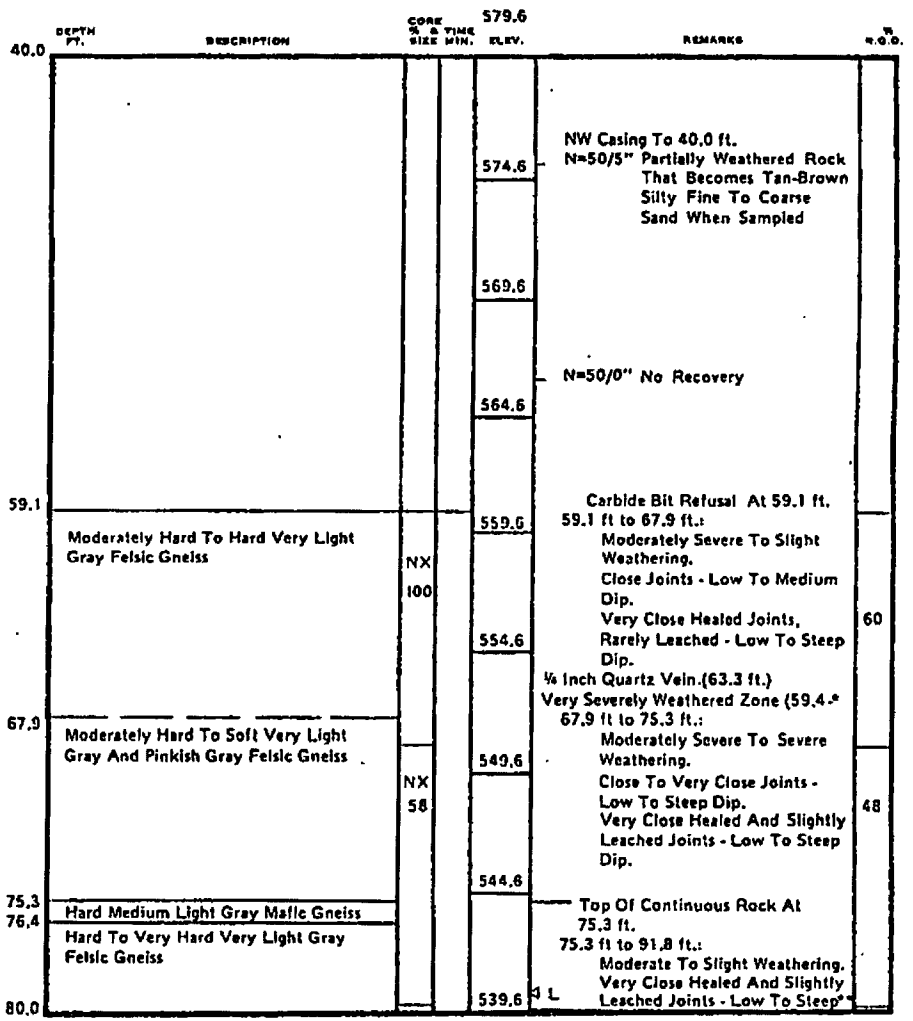
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-136P
DATE DRILLED 11-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

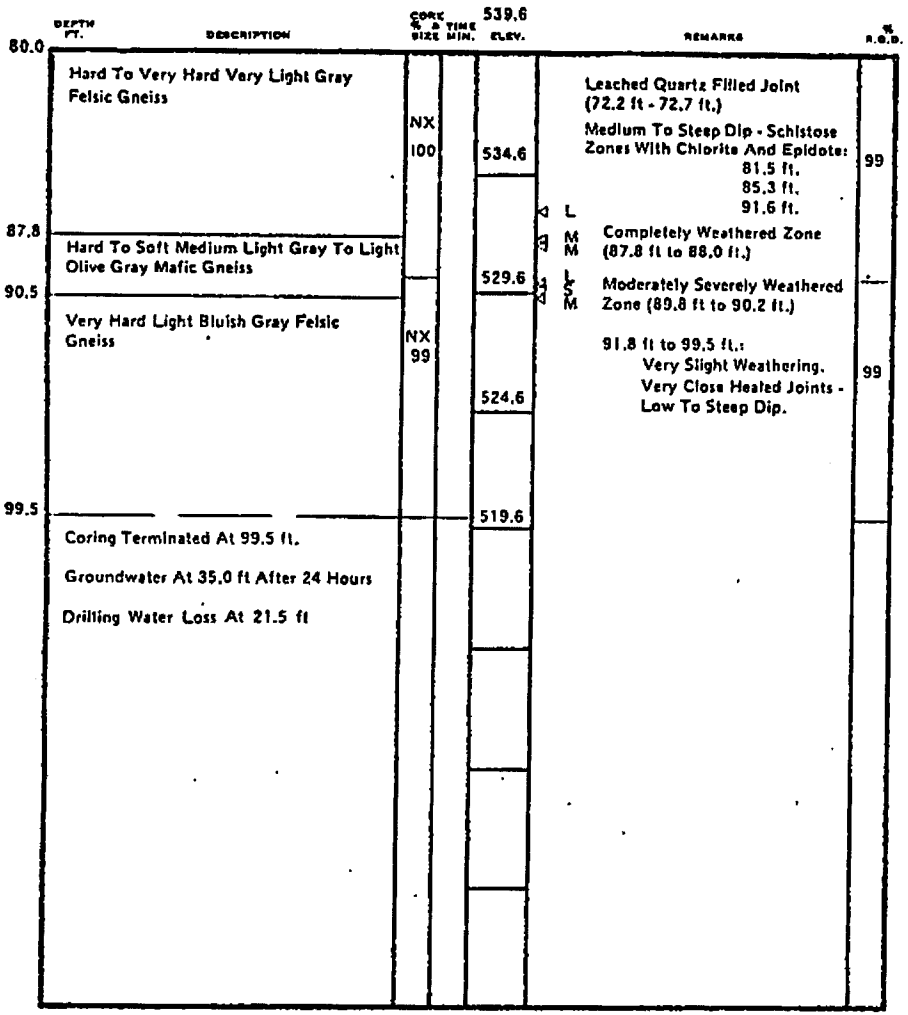
ROCK JOINTS:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

* 60.3 ft.) ** Dip.

TEST BORING RECORD

BORING NO. B-136P
DATE DRILLED 11-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

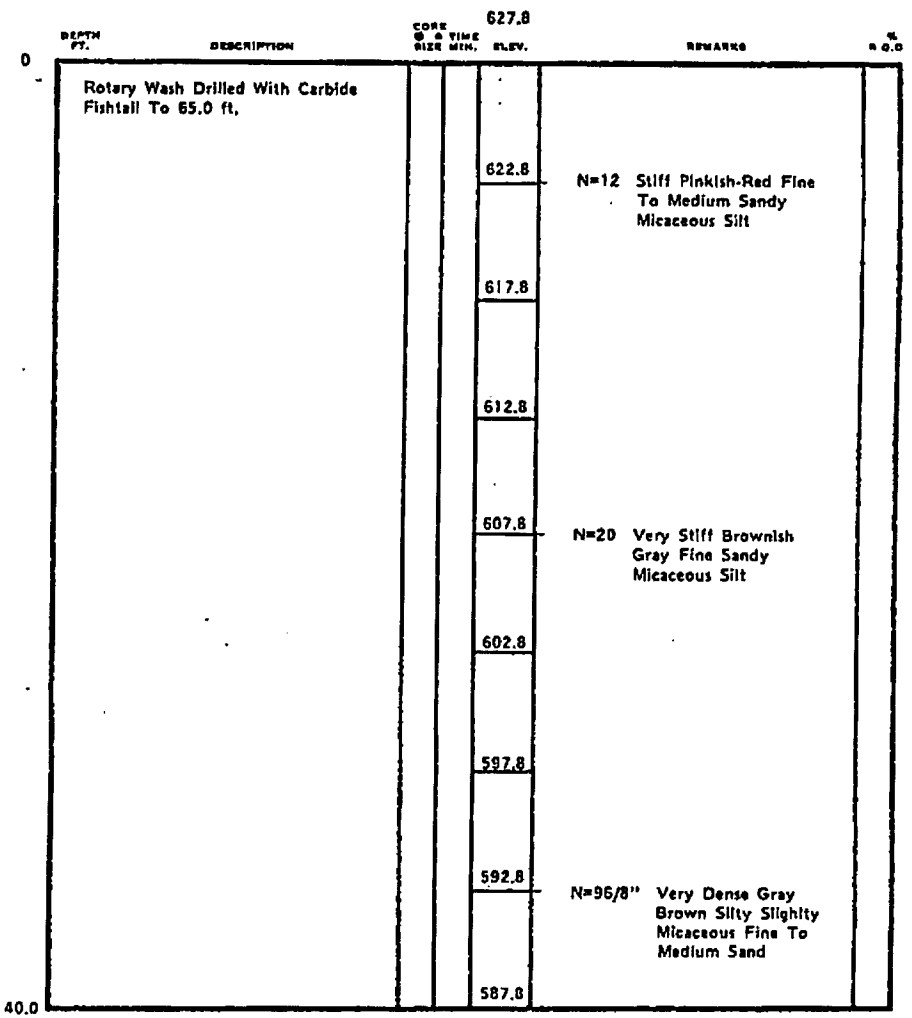
◁ ROCK JOINT)
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-136P
DATE DRILLED 11-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

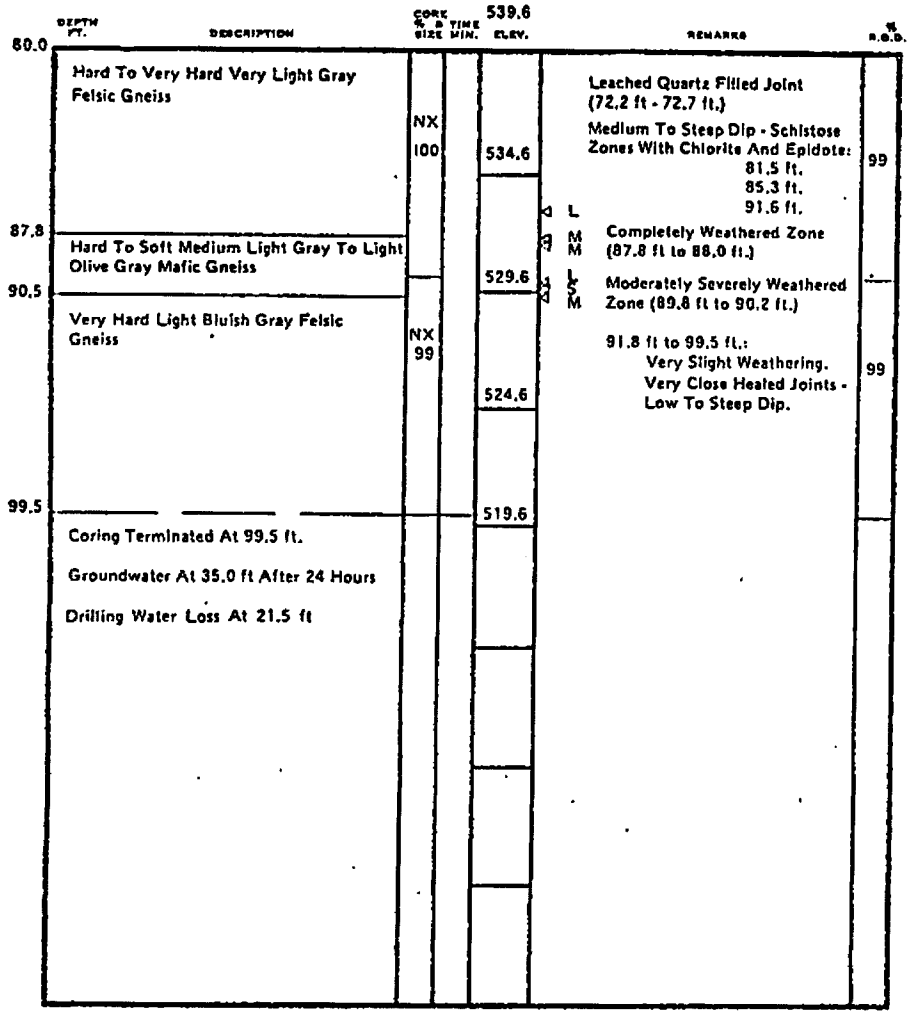
◁ ROCK JOINT)
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

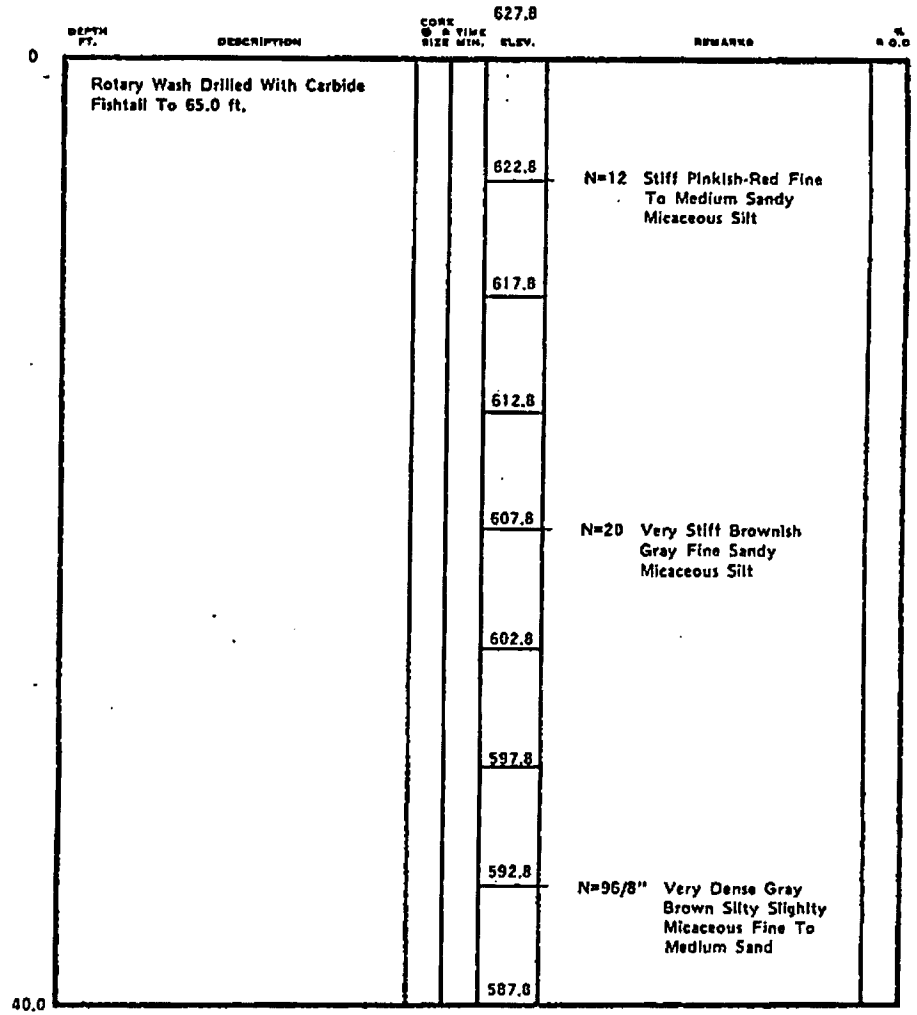
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-136P
DATE DRILLED 11-14-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

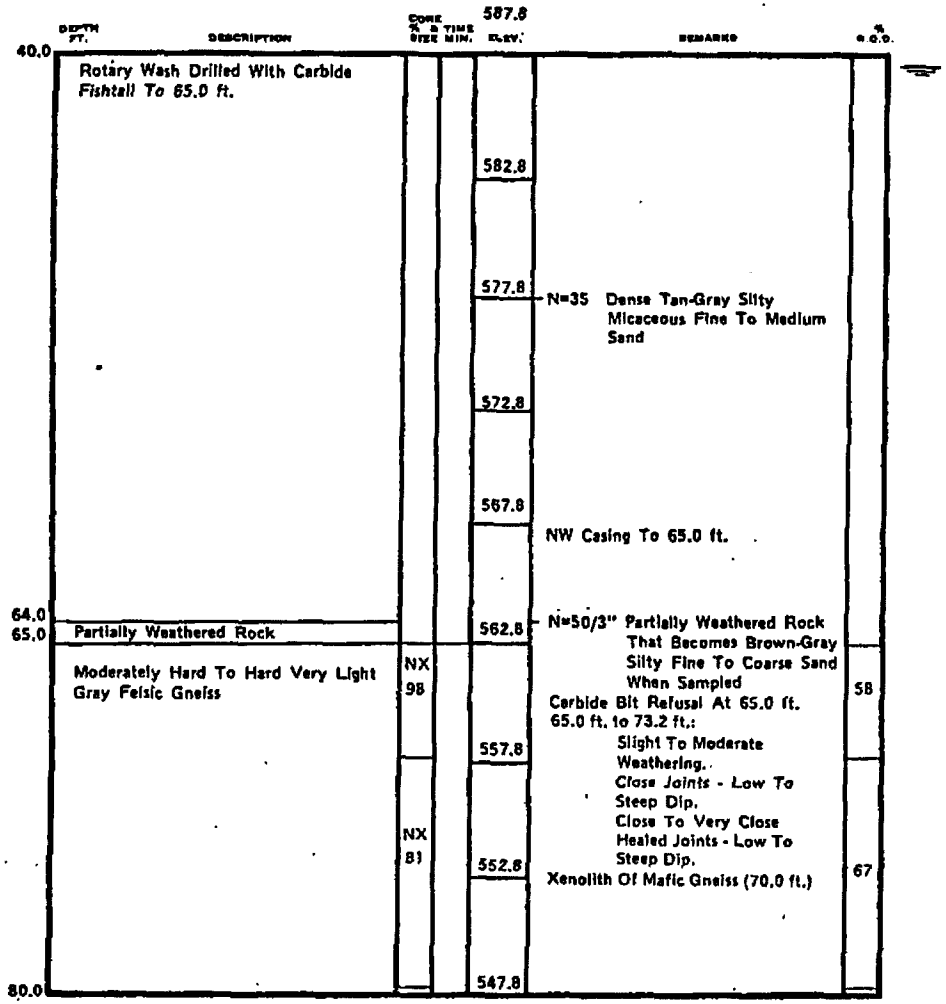
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

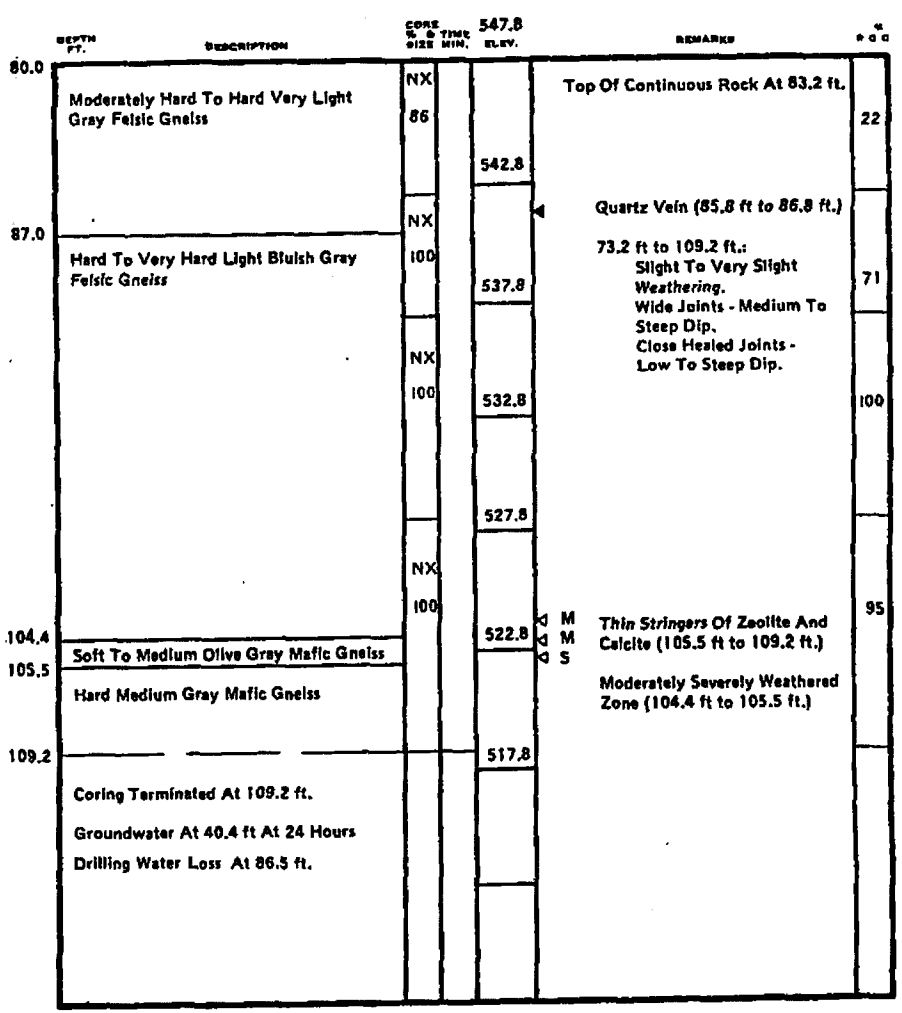
ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

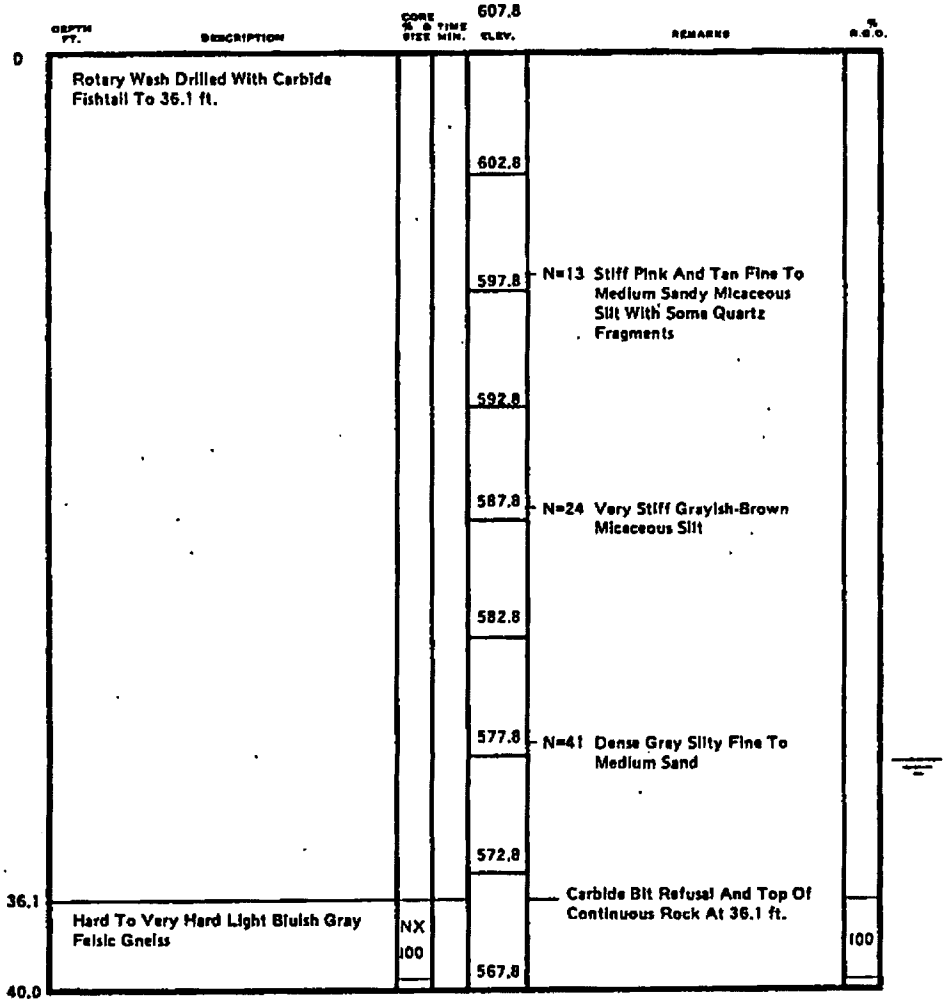
ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

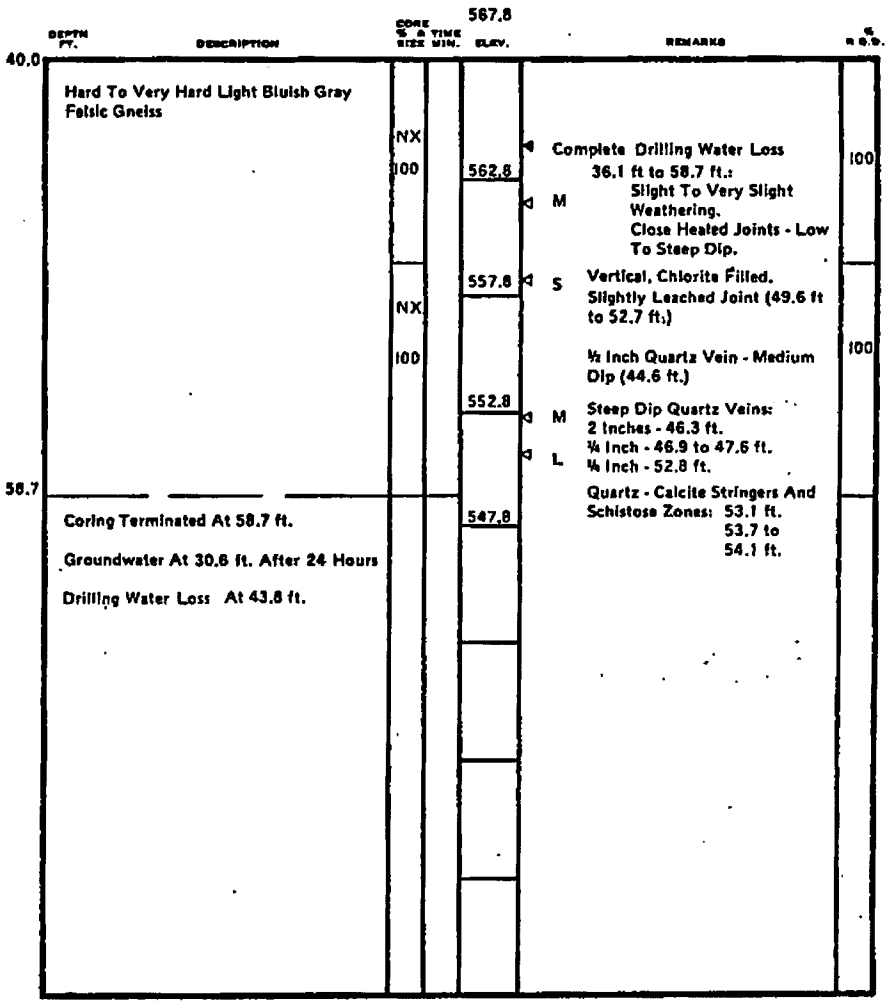


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-138P
DATE DRILLED 12-5-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

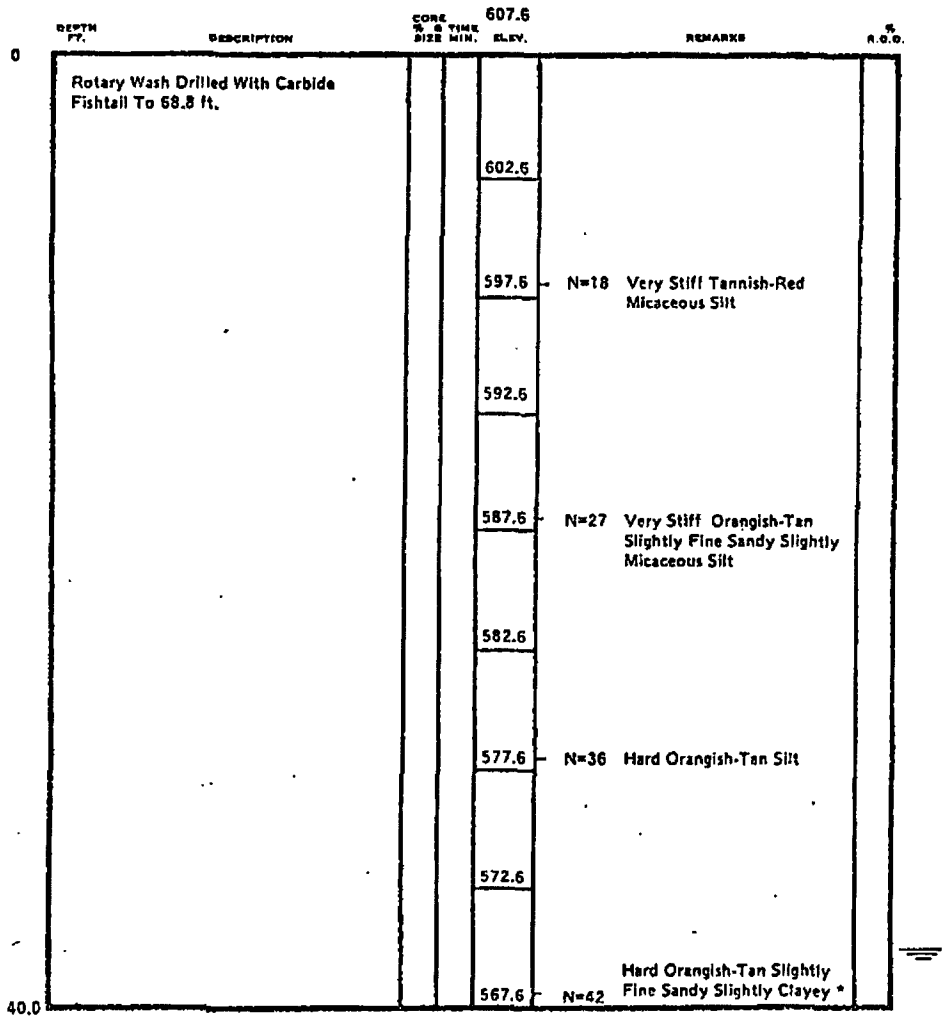


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-138P
DATE DRILLED 12-5-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

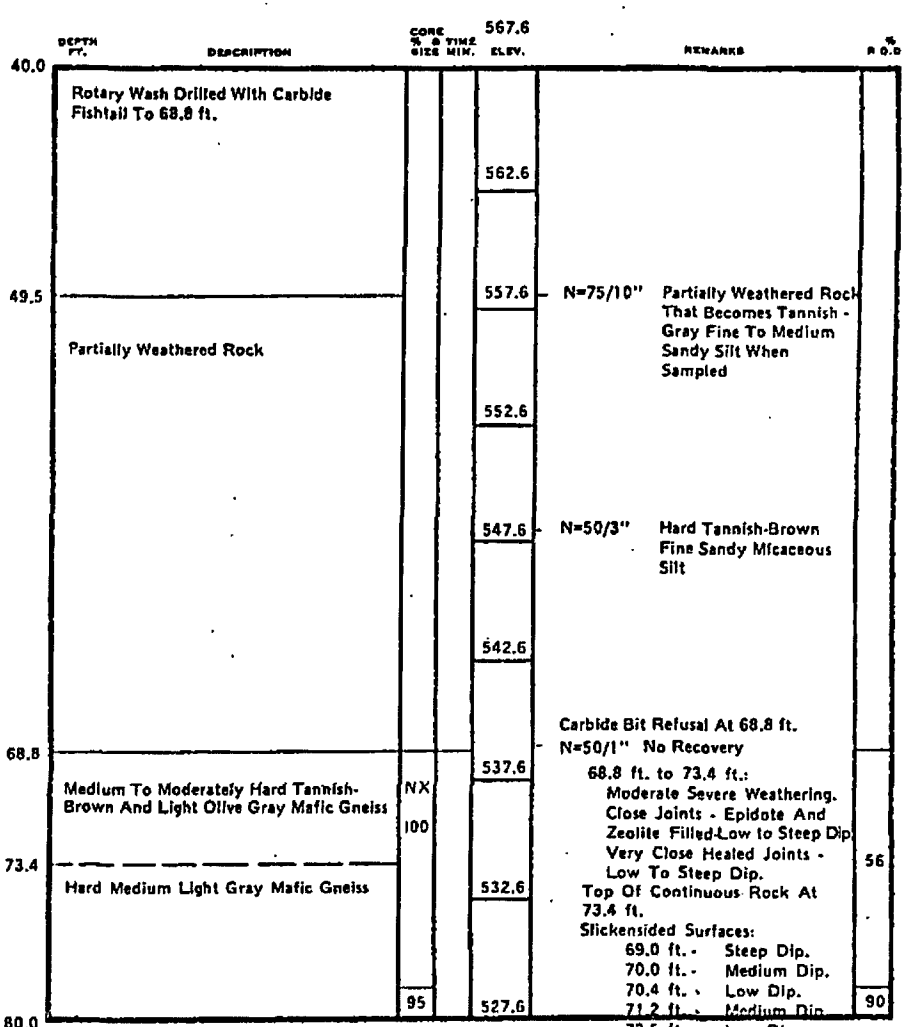
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

*Silt

TEST BORING RECORD

BORING NO. B-139P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

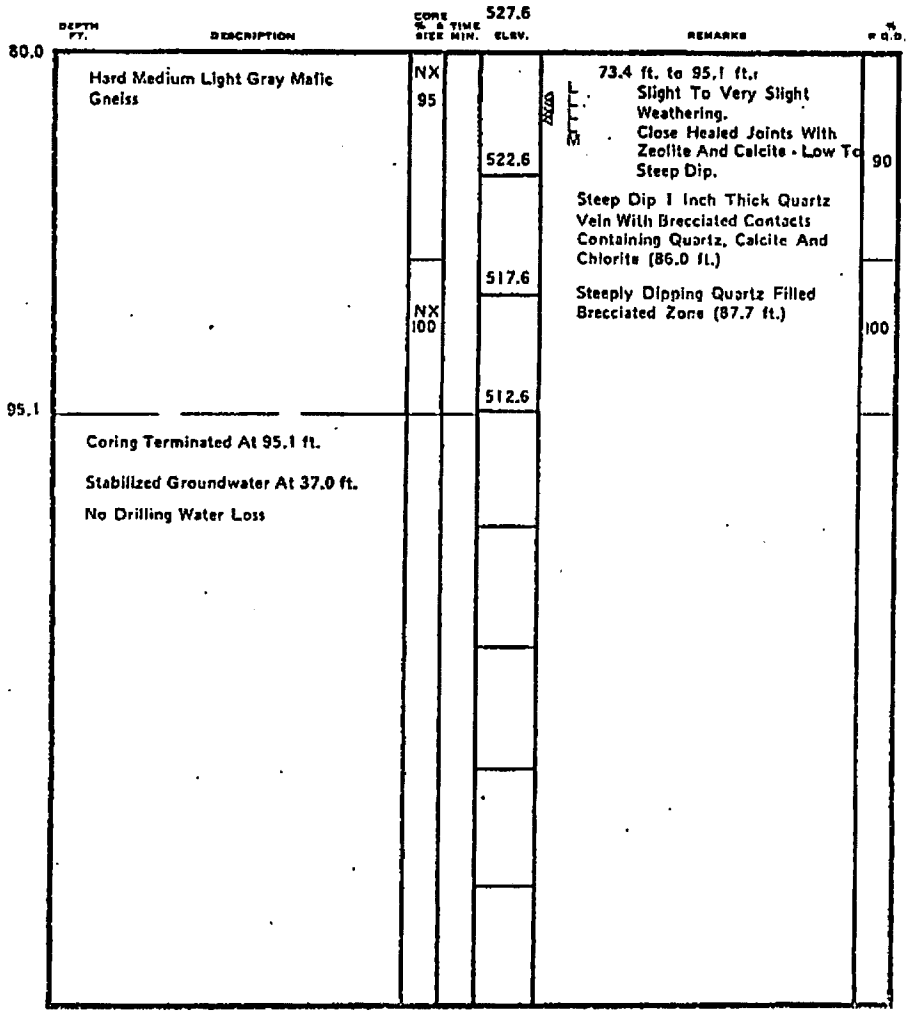
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-139P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

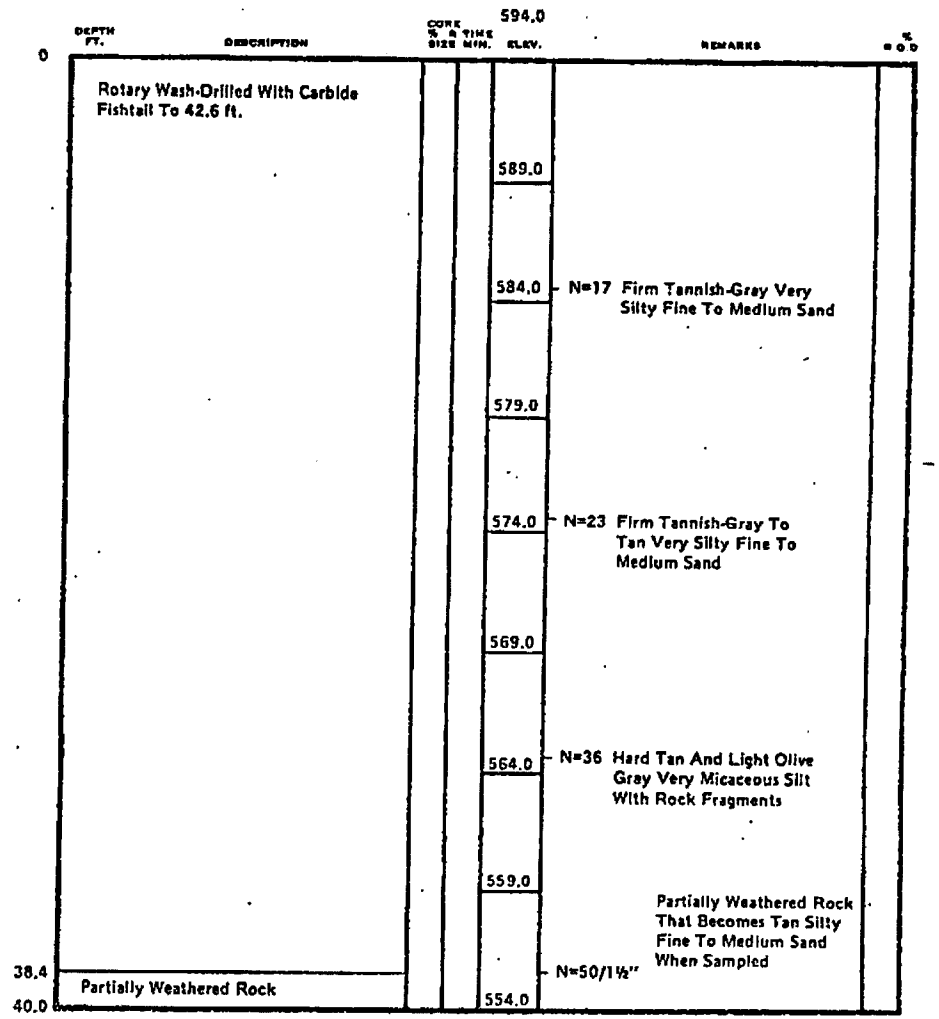
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-139P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-140P
DATE DRILLED 12-10-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	527.6 ELEV.	REMARKS	% R.Q.D.
80.0	Hard Medium Light Gray Mafic Gneiss	NX	95	522.6	73.4 ft. to 95.1 ft.: Slight To Very Slight Weathering. Close Healed Joints With Zeolite And Calcite - Low To Steep Dip.	90
				517.6	Steep Dip 1 Inch Thick Quartz Vein With Brecciated Contacts Containing Quartz, Calcite And Chlorite (86.0 ft.)	
		NX	100		Steeply Dipping Quartz Filled Brecciated Zone (87.7 ft.)	100
95.1	Coring Terminated At 95.1 ft.			512.6		
	Stabilized Groundwater At 37.0 ft.					
	No Drilling Water Loss					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-139P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	594.0 ELEV.	REMARKS	% R.Q.D.
0	Rotary Wash-Drilled With Carbide Fishtail To 42.6 ft.			589.0		
				584.0	N=17 Firm Tannish-Gray Very Silty Fine To Medium Sand	
				579.0		
				574.0	N=23 Firm Tannish-Gray To Tan Very Silty Fine To Medium Sand	
				569.0		
				564.0	N=36 Hard Tan And Light Olive Gray Very Micaceous Silt With Rock Fragments	
				559.0		
38.4	Partially Weathered Rock				Partially Weathered Rock That Becomes Tan Silty Fine To Medium Sand When Sampled	
40.0				554.0	N=50/1½"	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

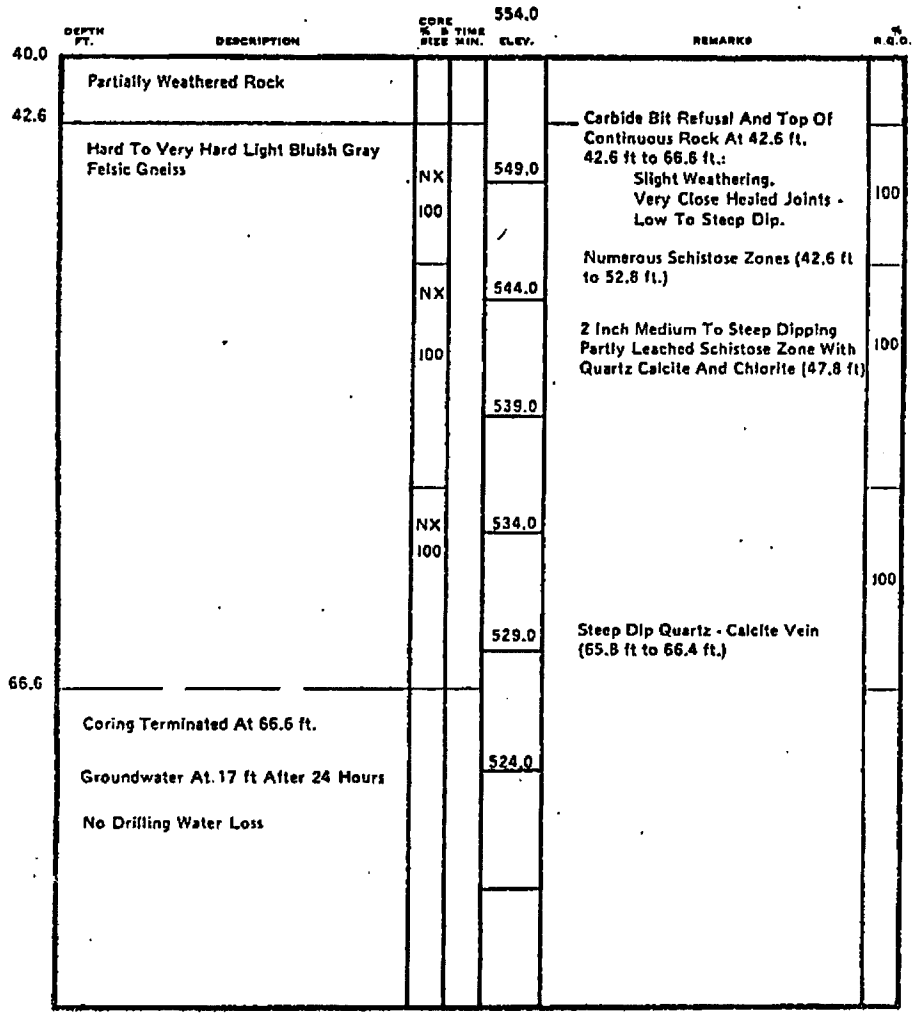
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-140P
DATE DRILLED 12-10-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

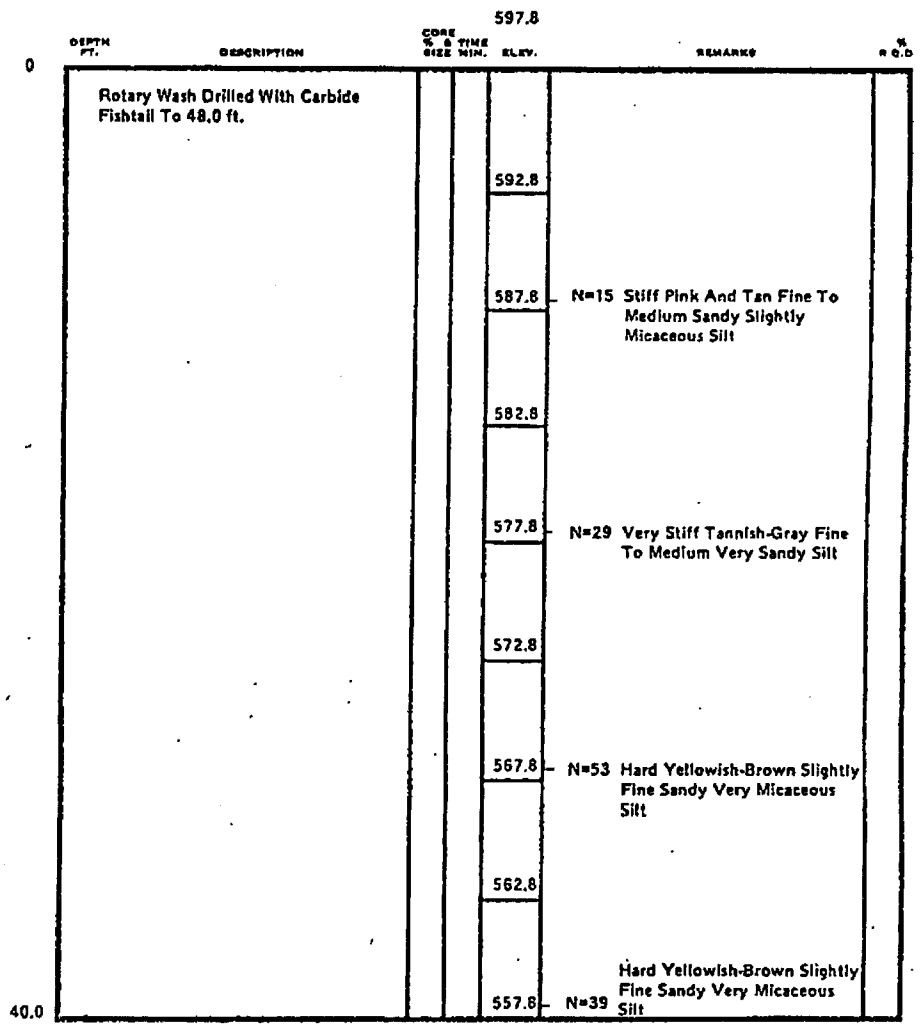
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-140P
DATE DRILLED 12-10-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

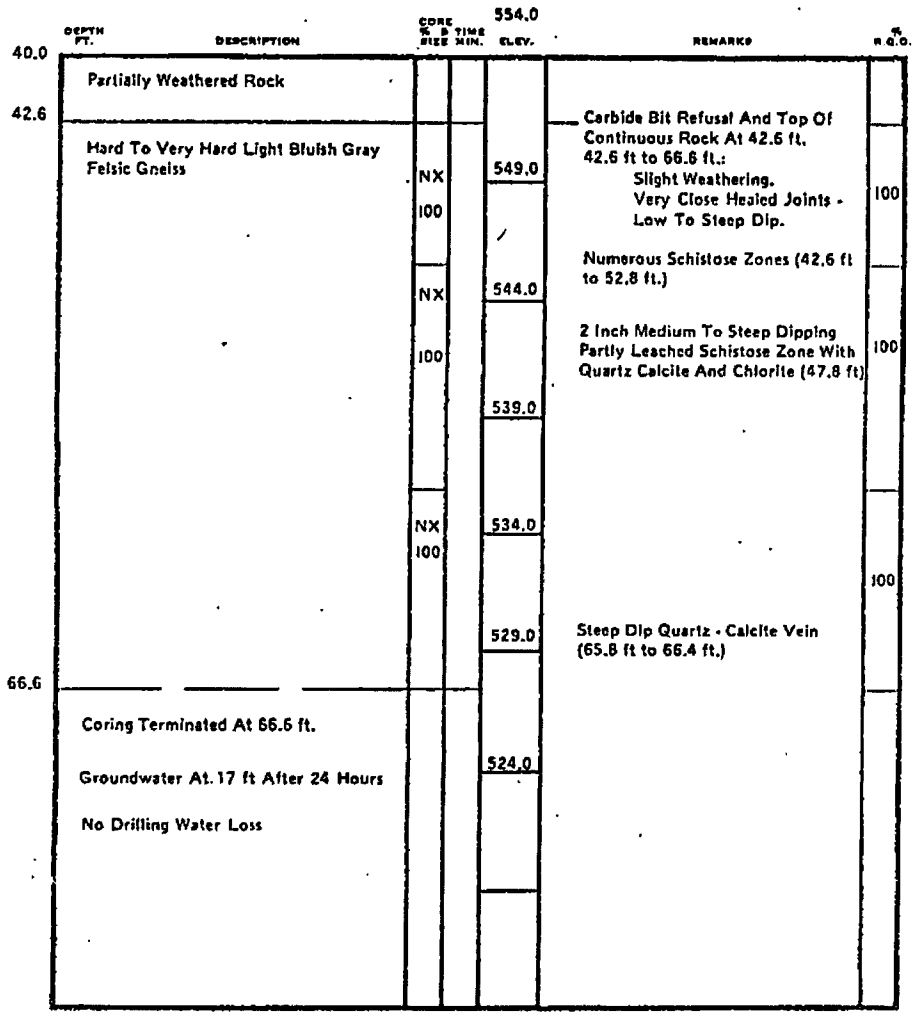
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-141P
DATE DRILLED 12-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

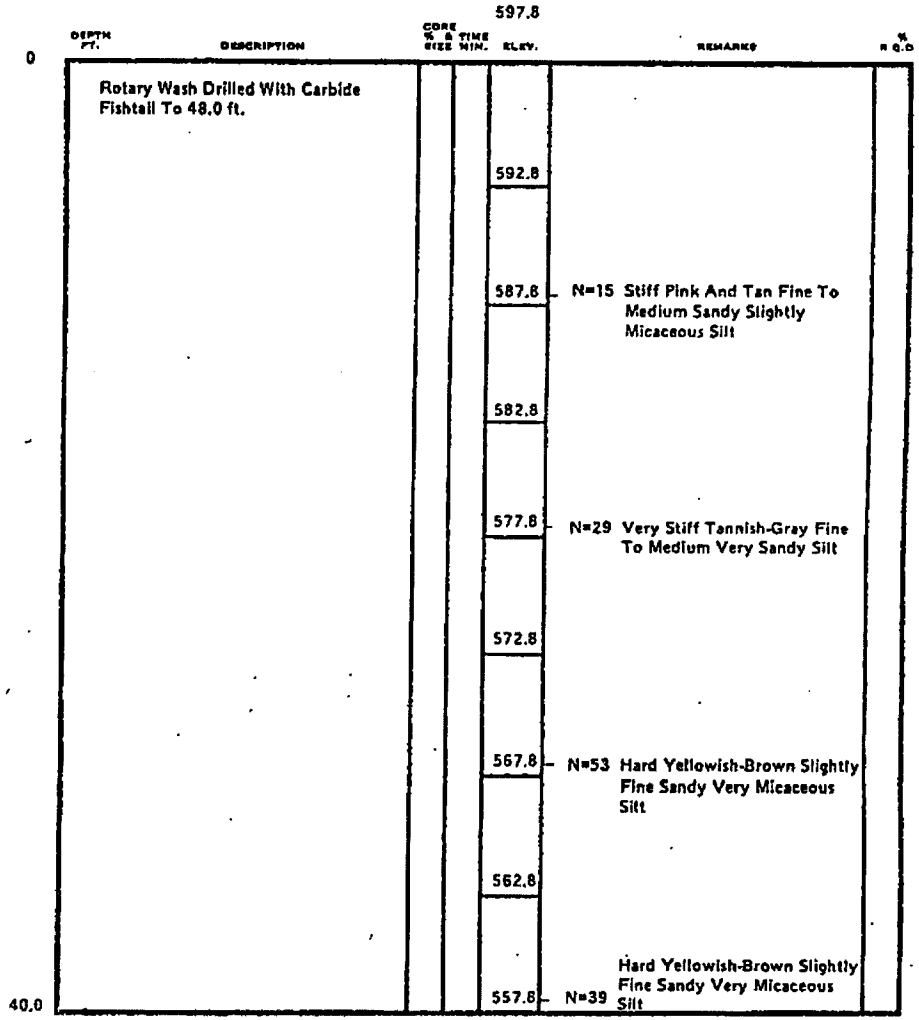
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-140P
DATE DRILLED 12-10-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

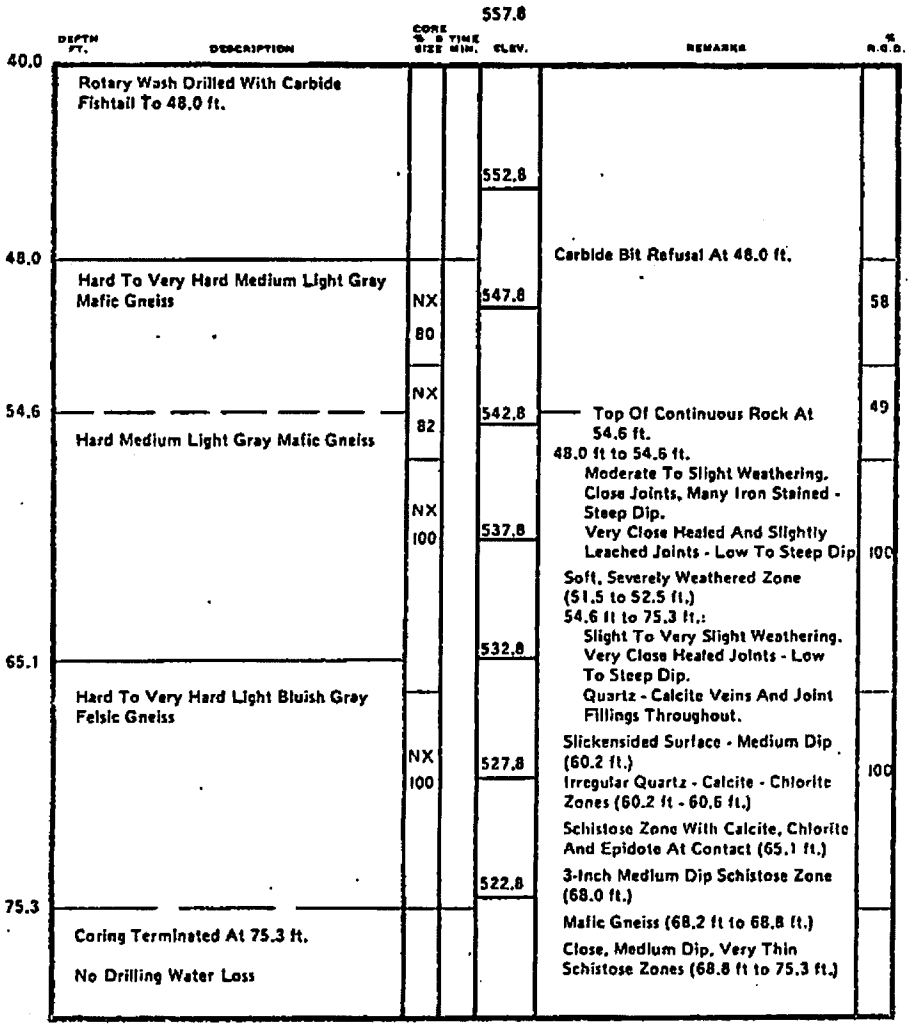
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-141P
DATE DRILLED 12-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

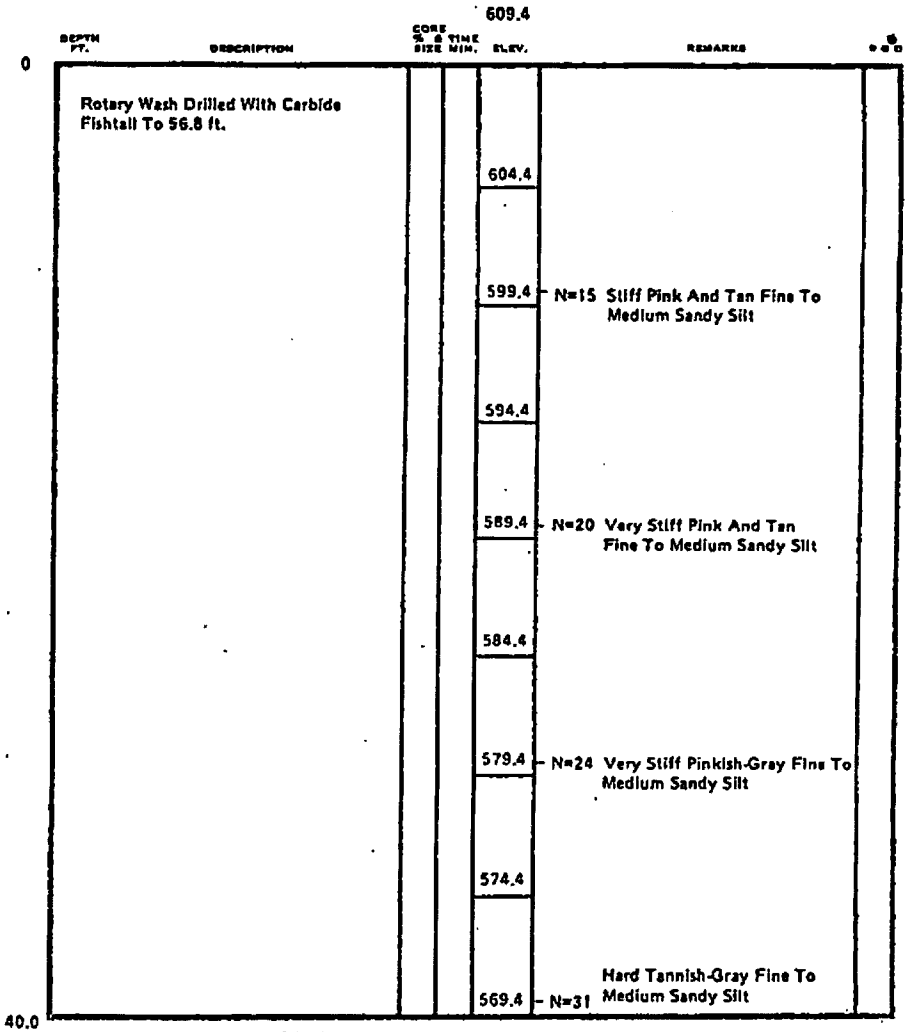
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-141P
DATE DRILLED 12-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

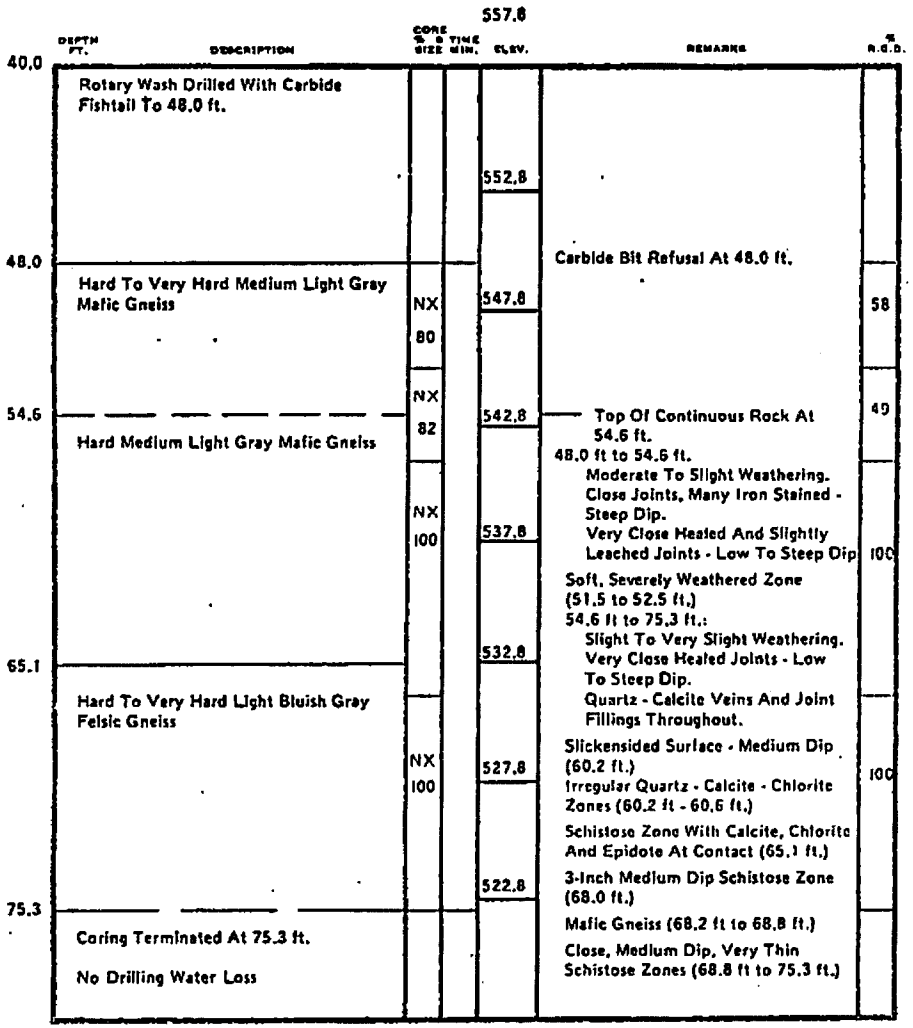
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

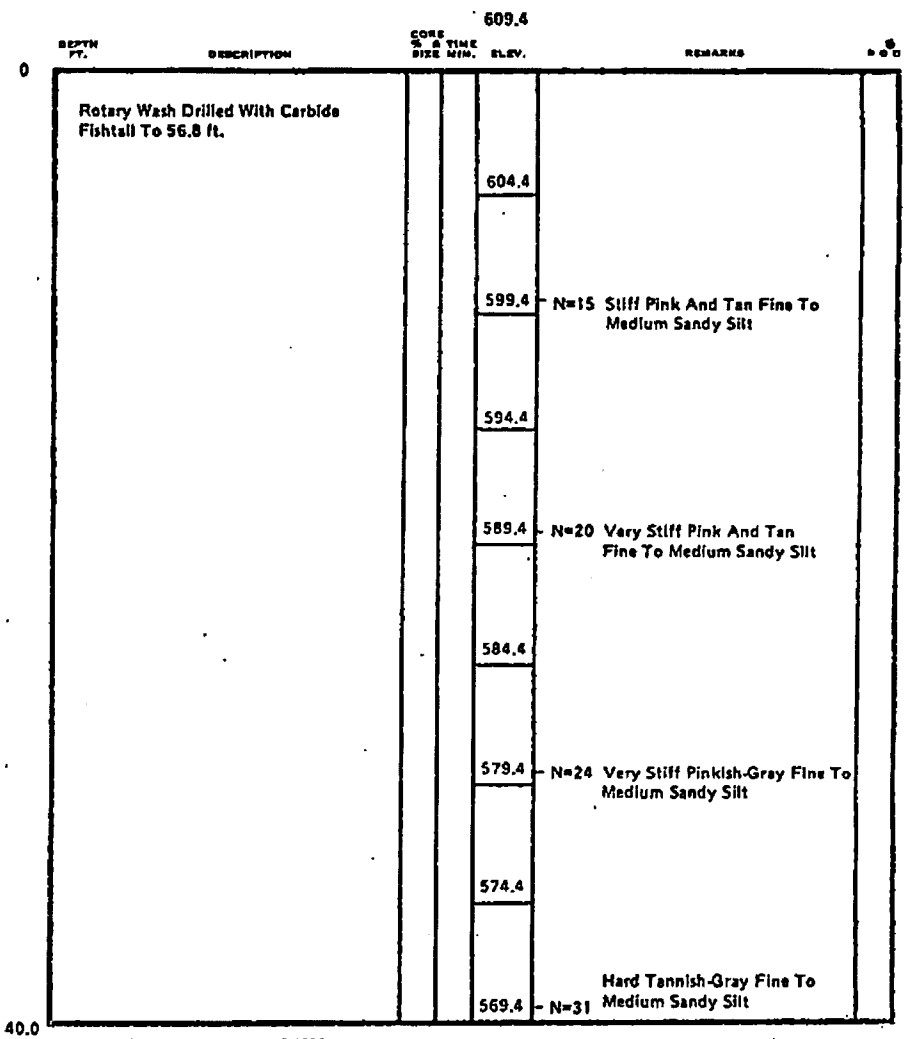
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-141P
DATE DRILLED 12-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

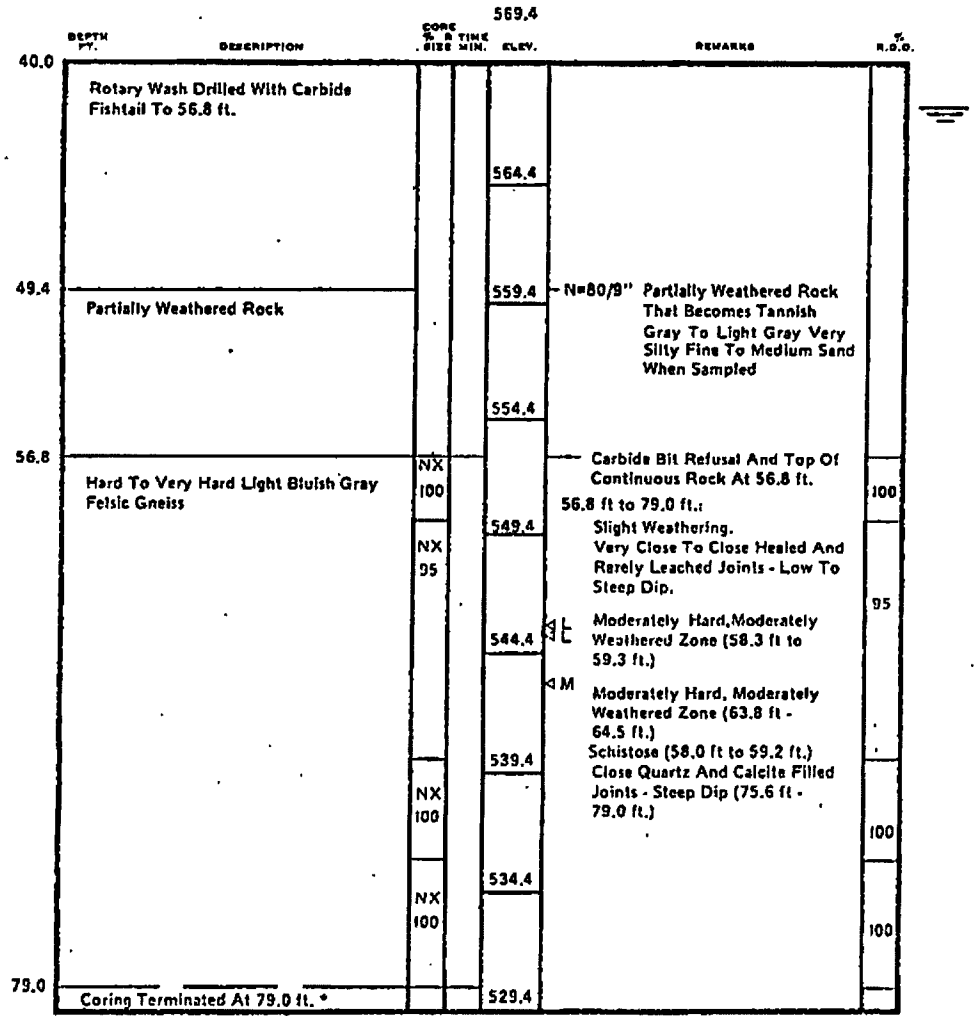
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * Stabilized Groundwater At 41.8 ft.
CORE DRILLING MEETS ASTM D-2113 No Drilling Water Loss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — Loss OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

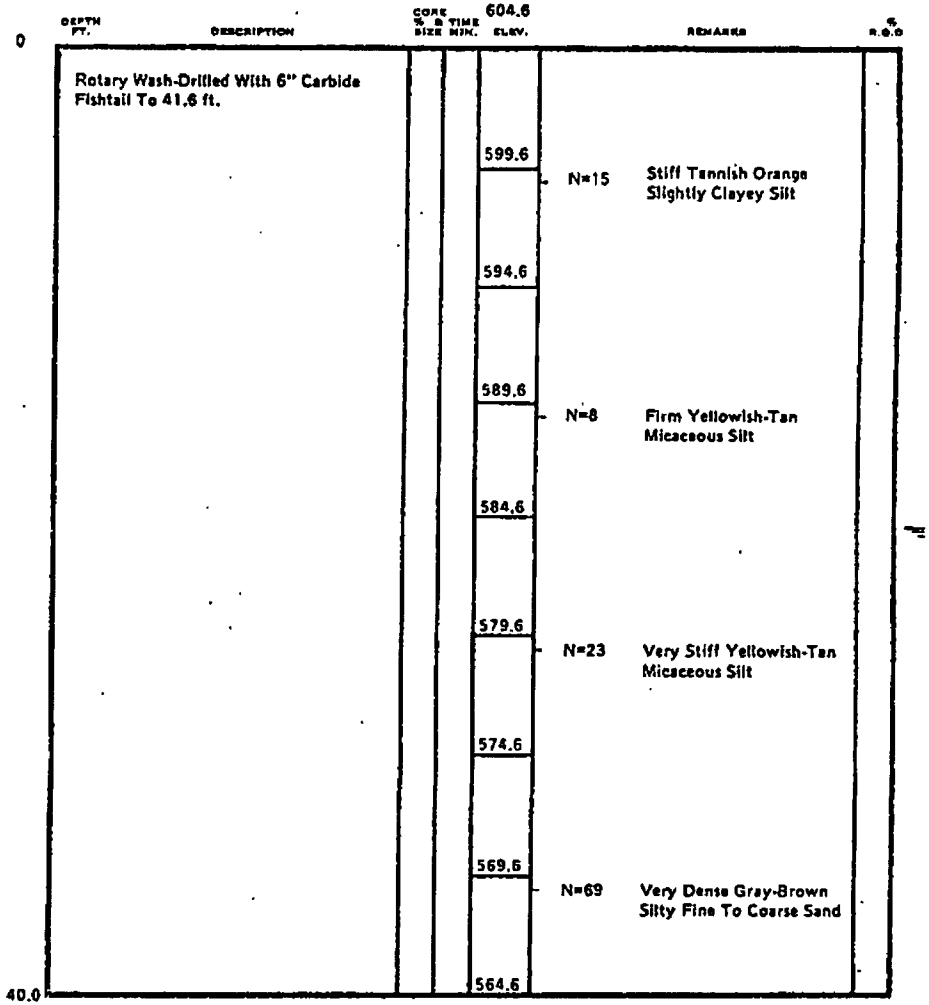
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — Loss OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

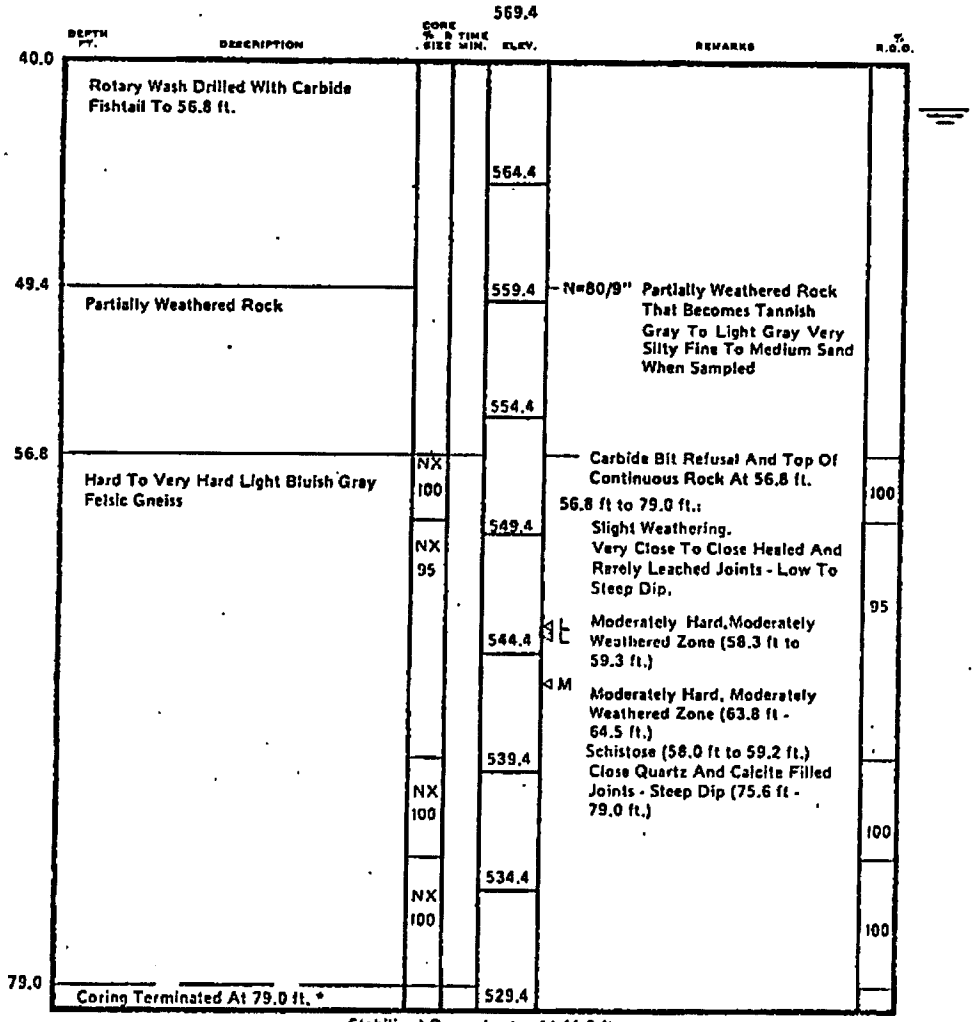
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * Stabilized Groundwater At 41.8 ft.
CORE DRILLING MEETS ASTM D-2113 No Drilling Water Loss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

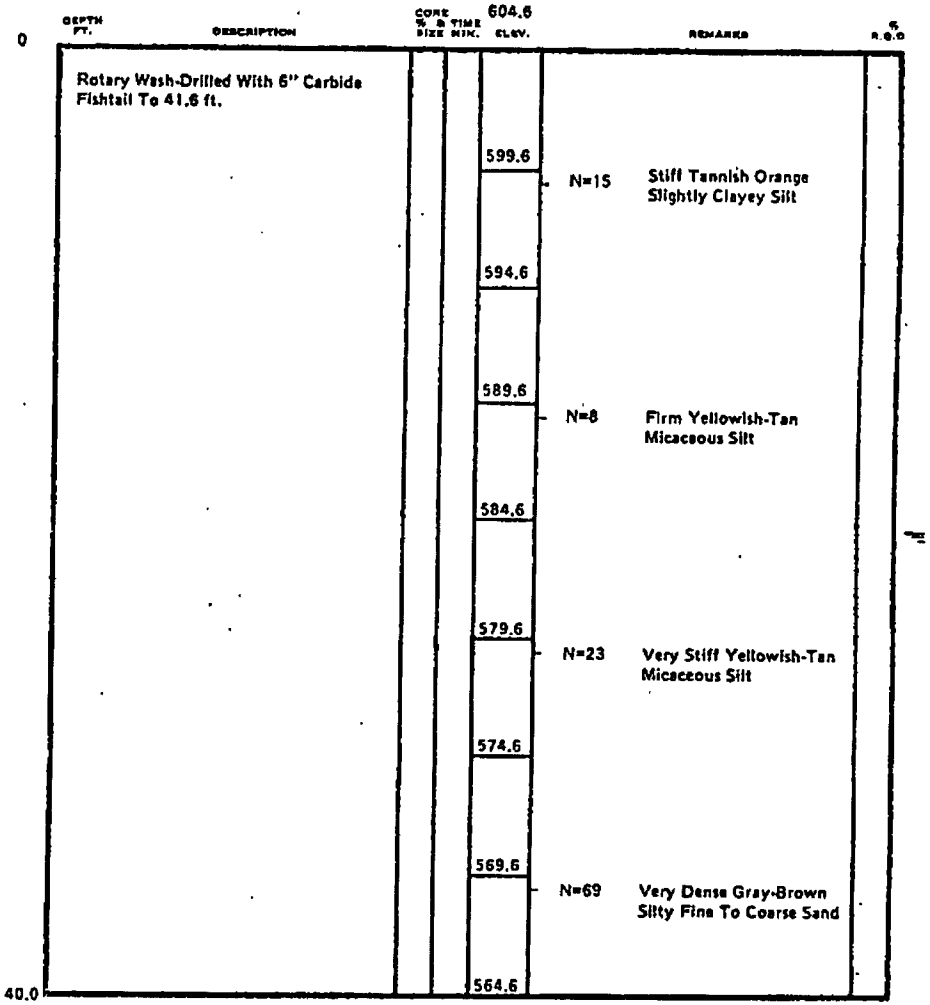
UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:
ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°
N = STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

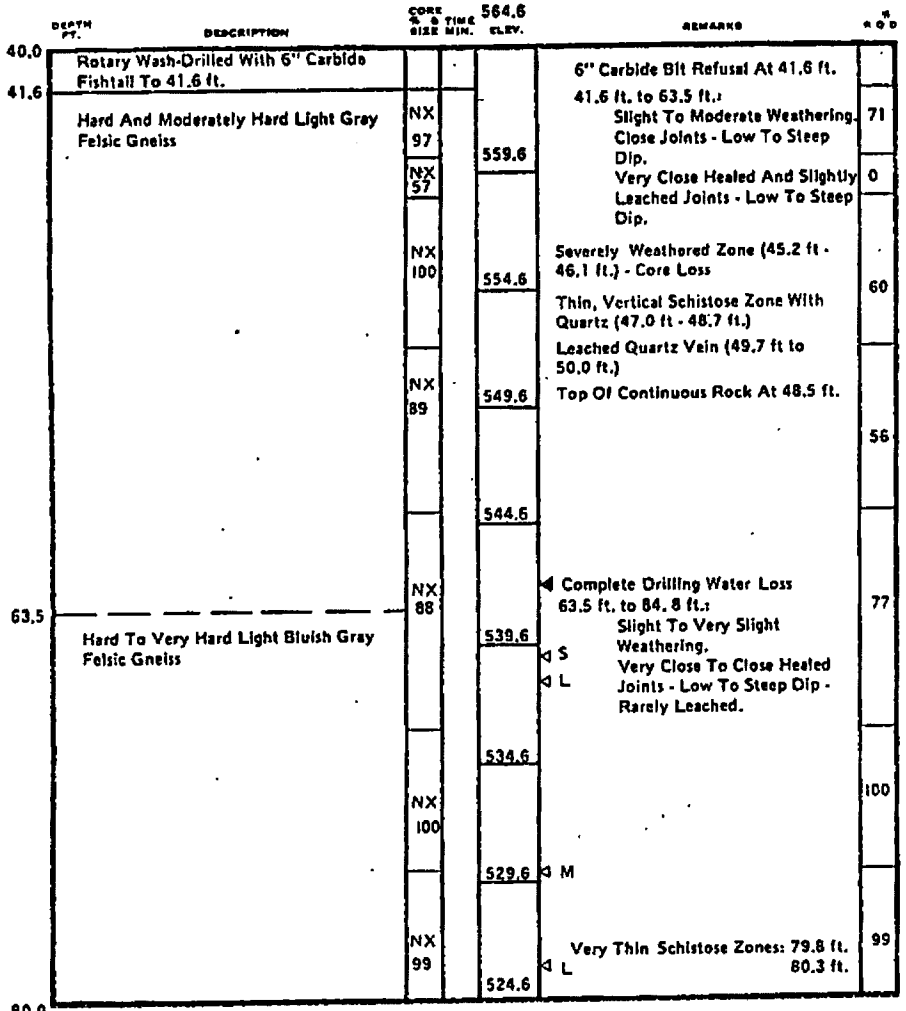
UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:
ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°
N = STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



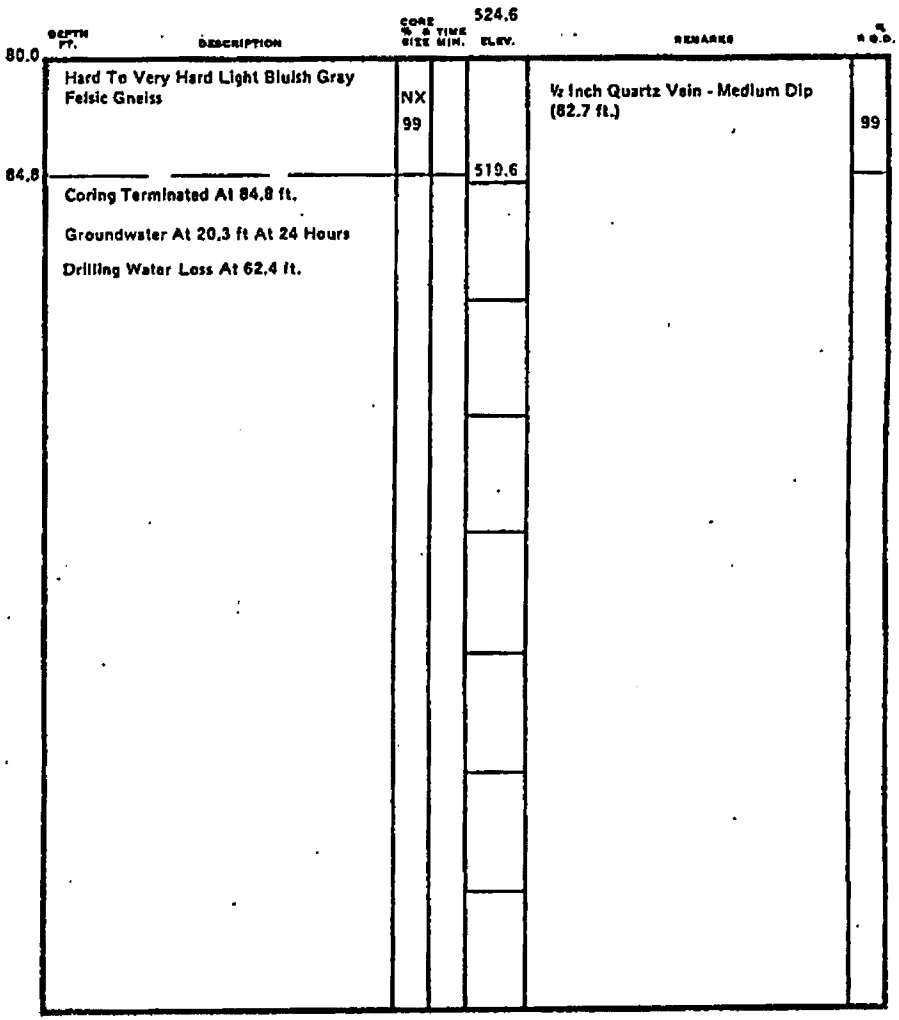
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



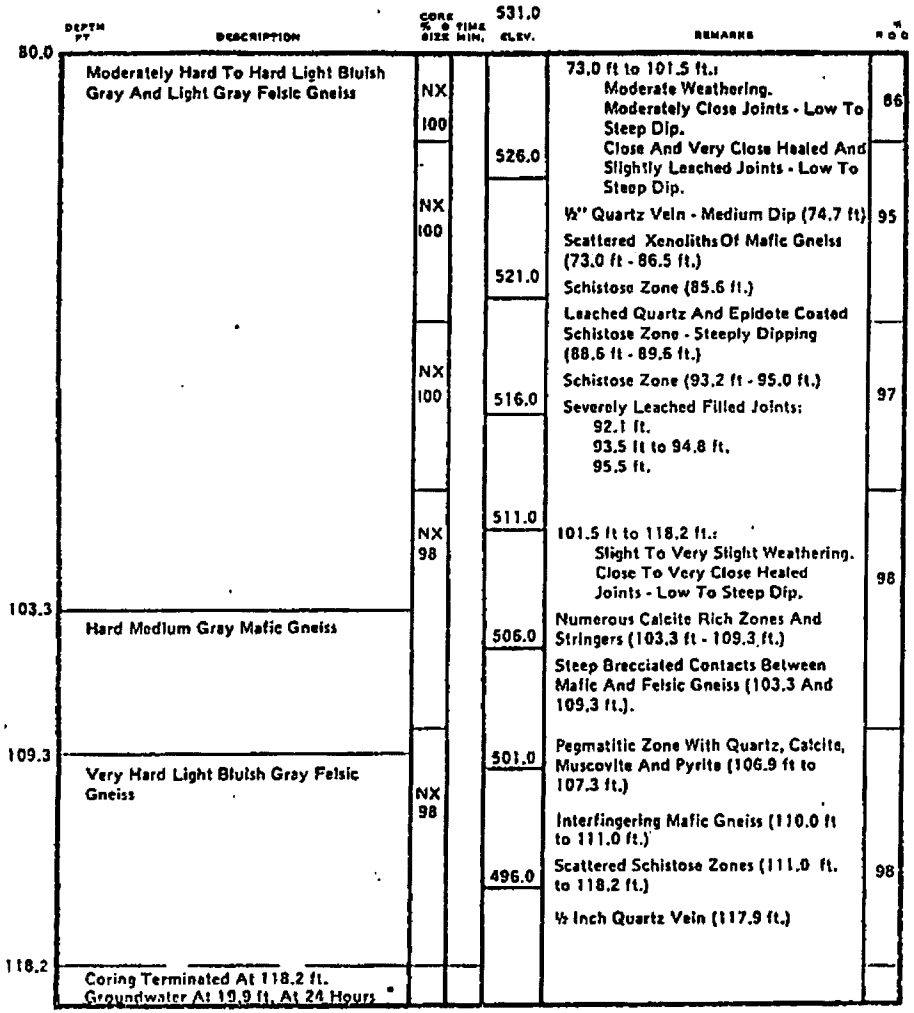
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

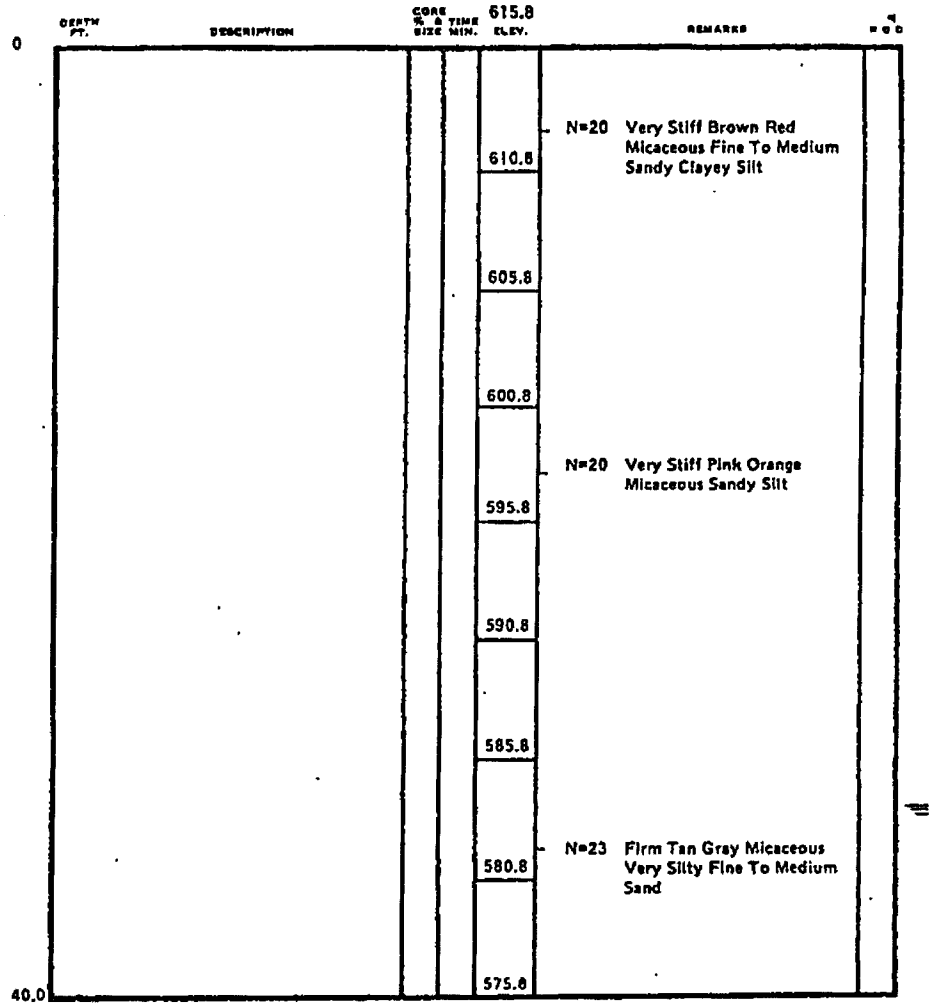
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-144P
DATE DRILLED 11-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

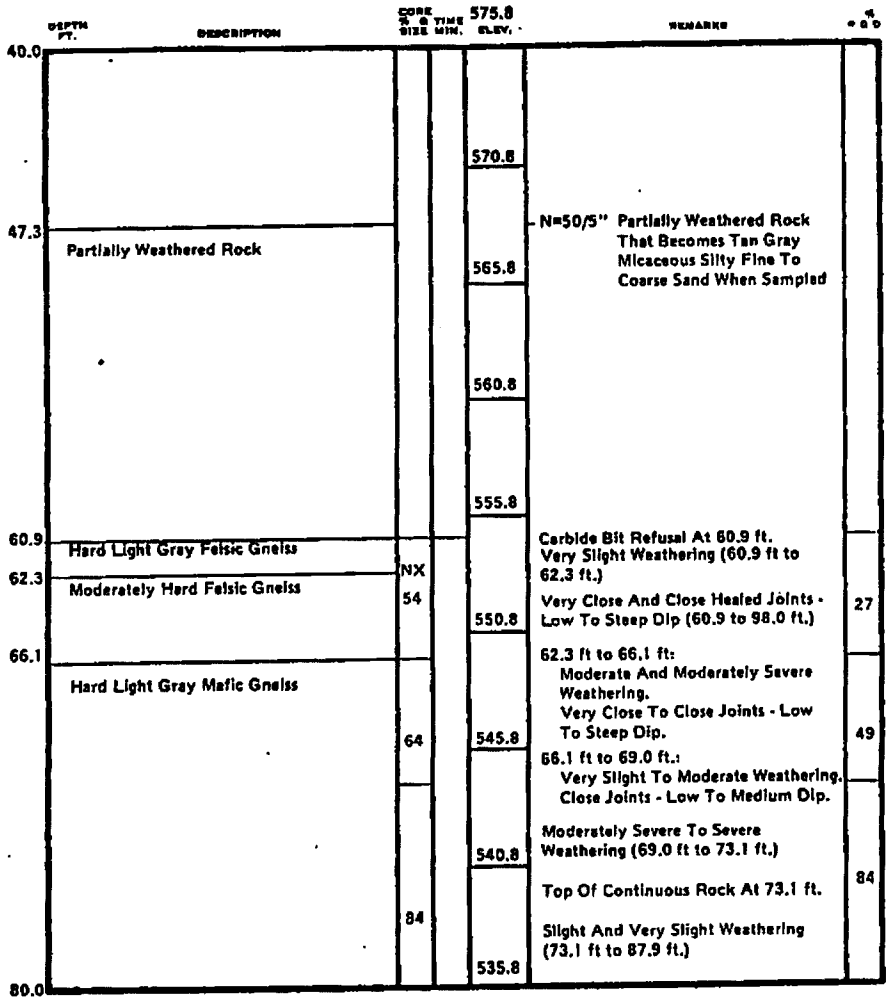
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-144AP
DATE DRILLED 2-11-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

% ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

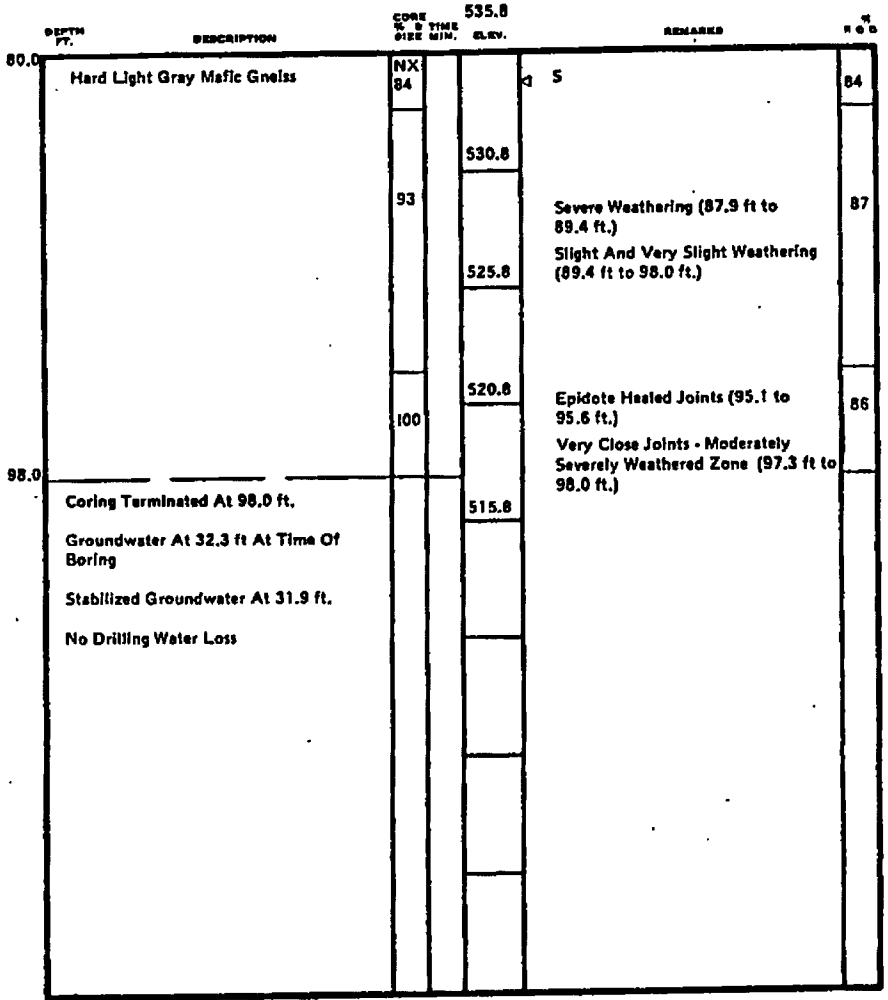
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-144AP
DATE DRILLED 2-11-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

% ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

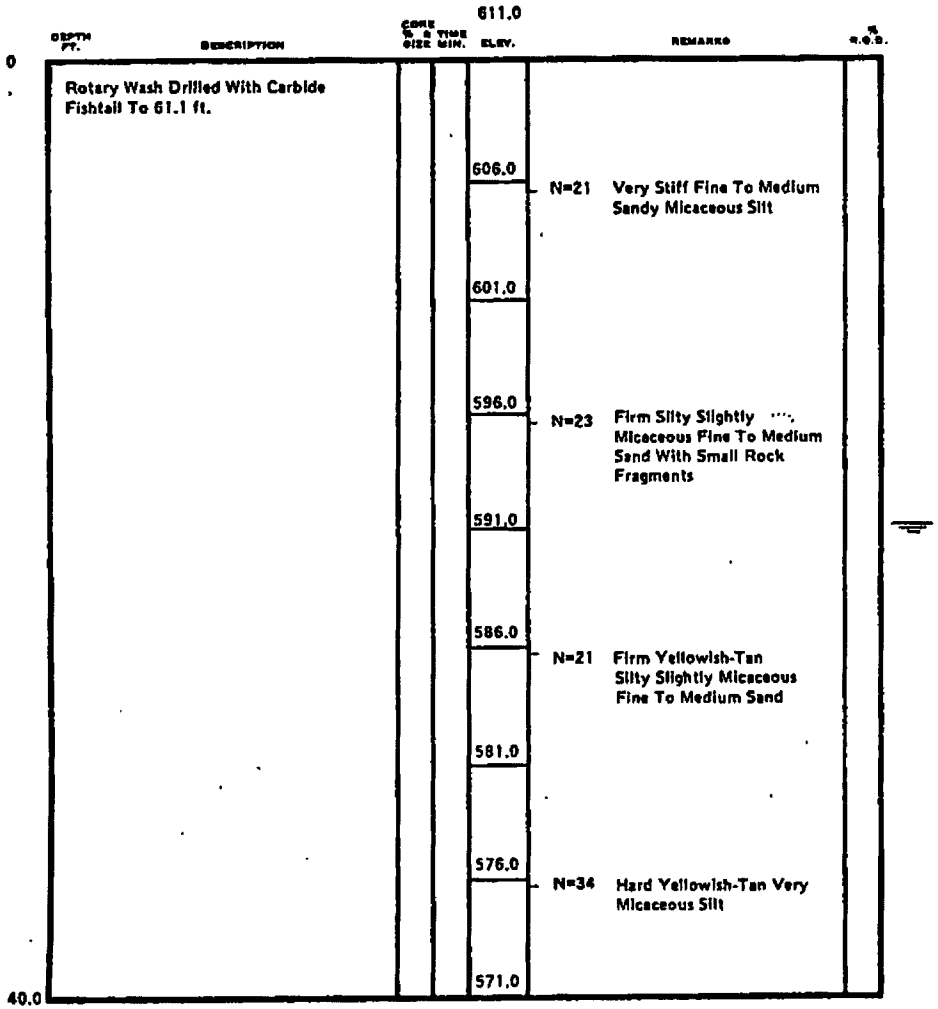
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-144AP
DATE DRILLED 2-11-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

NR UNDISTURBED SAMPLE WATER TABLE, 24 HR.
% ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

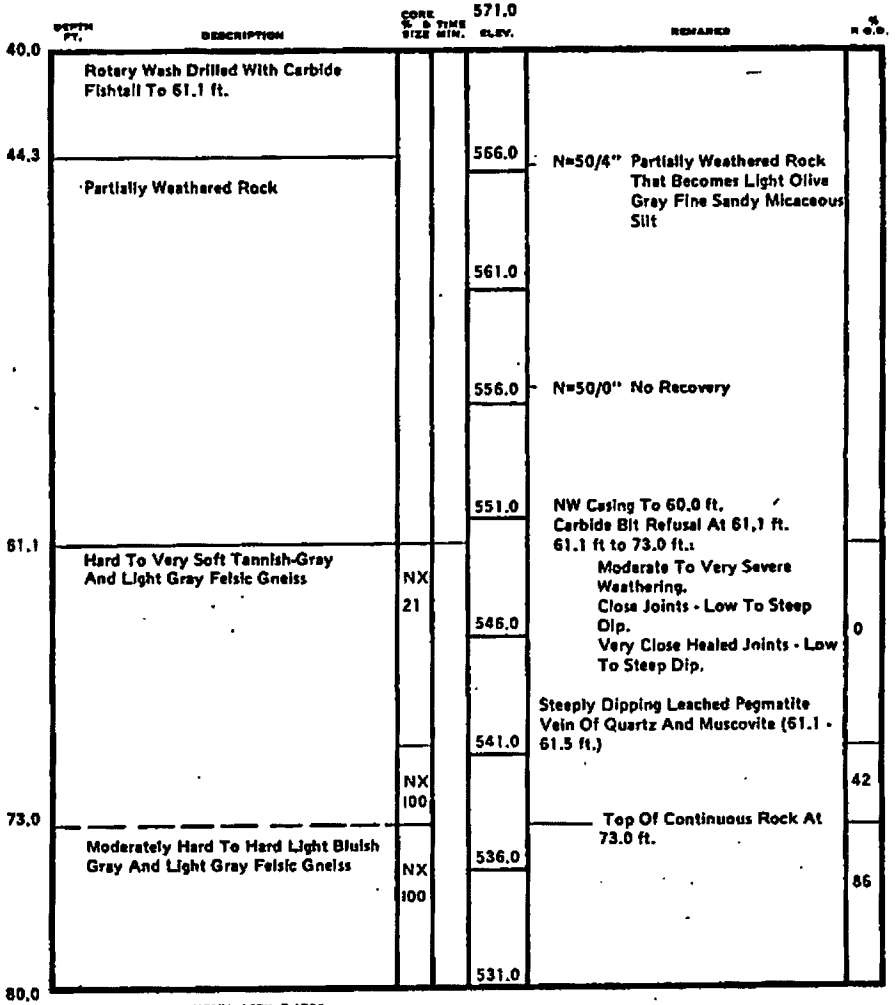
ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-144P
DATE DRILLED 11-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

NR UNDISTURBED SAMPLE WATER TABLE, 24 HR.
% ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

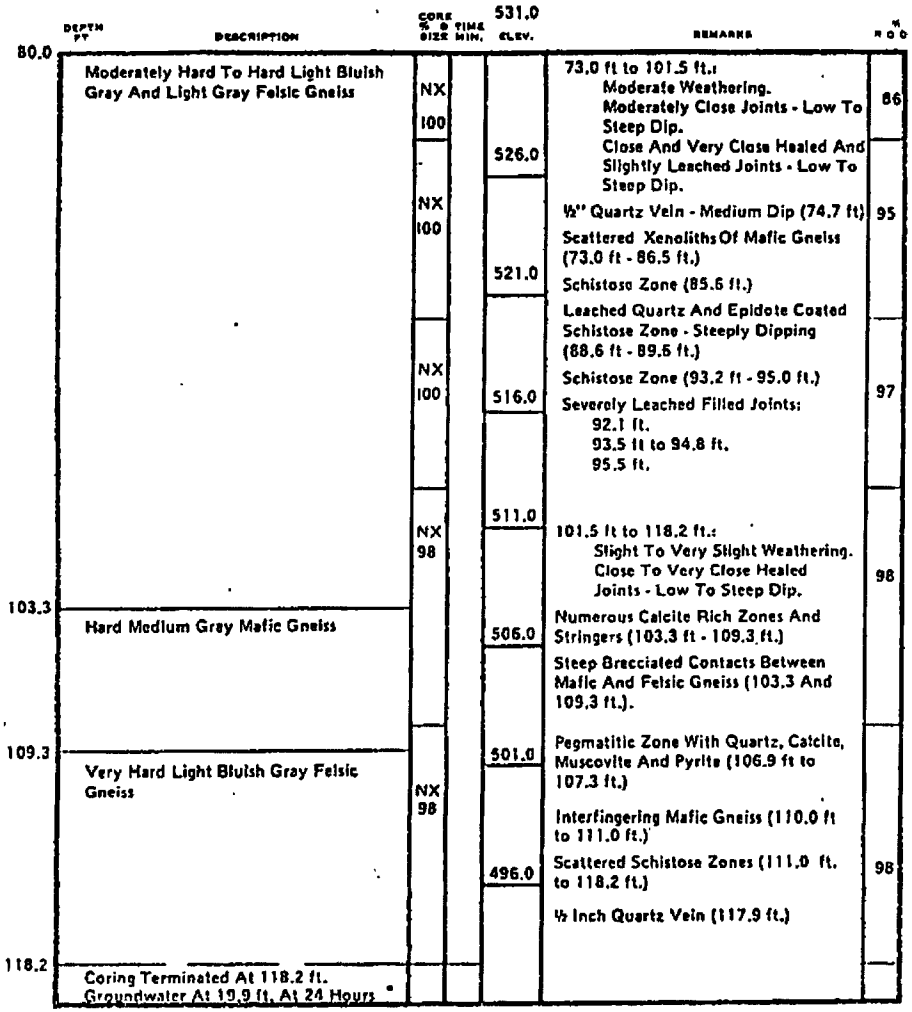
ROCK JOINTS
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-144P
DATE DRILLED 11-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

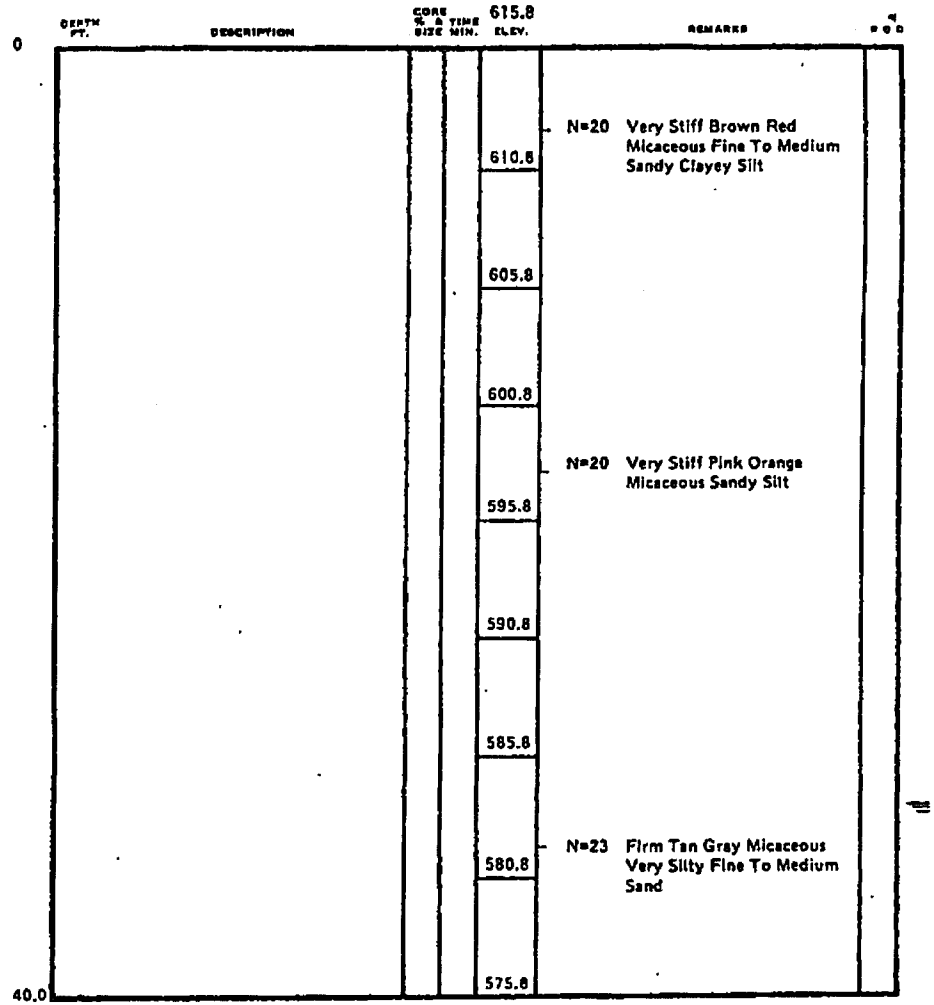
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-144P
DATE DRILLED 11-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

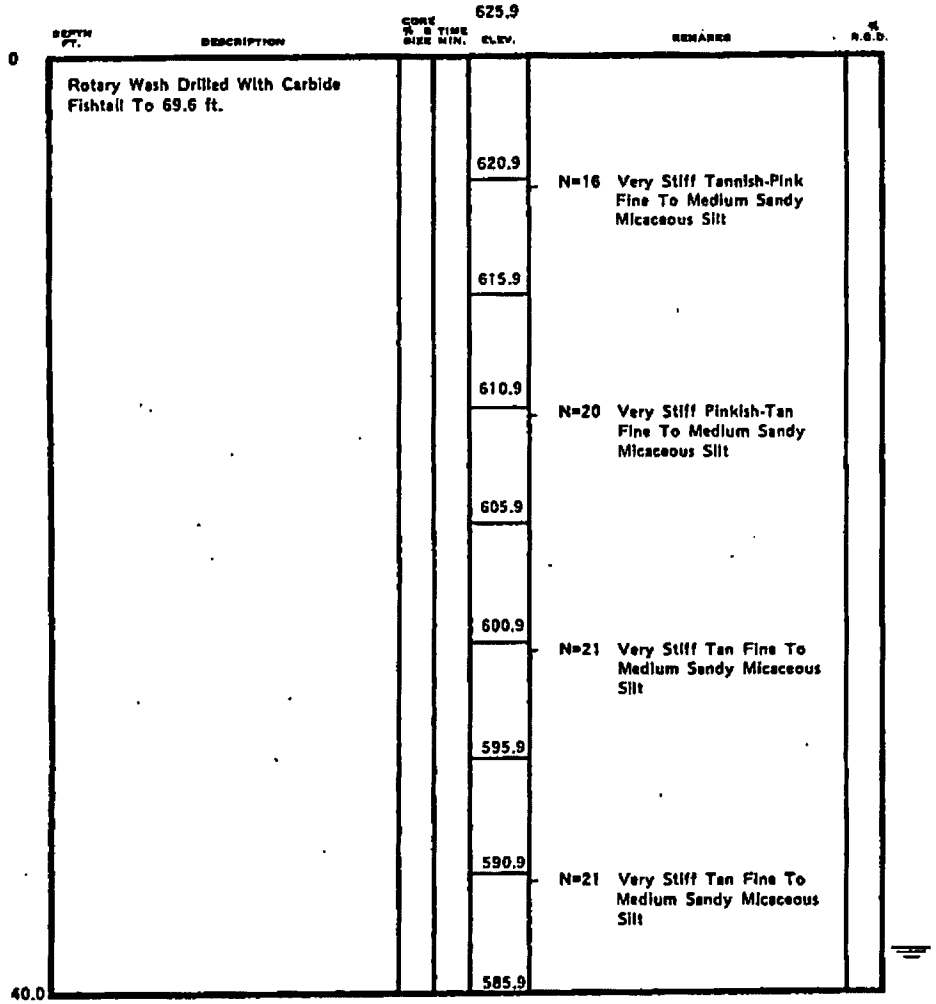
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-144AP
DATE DRILLED 2-11-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

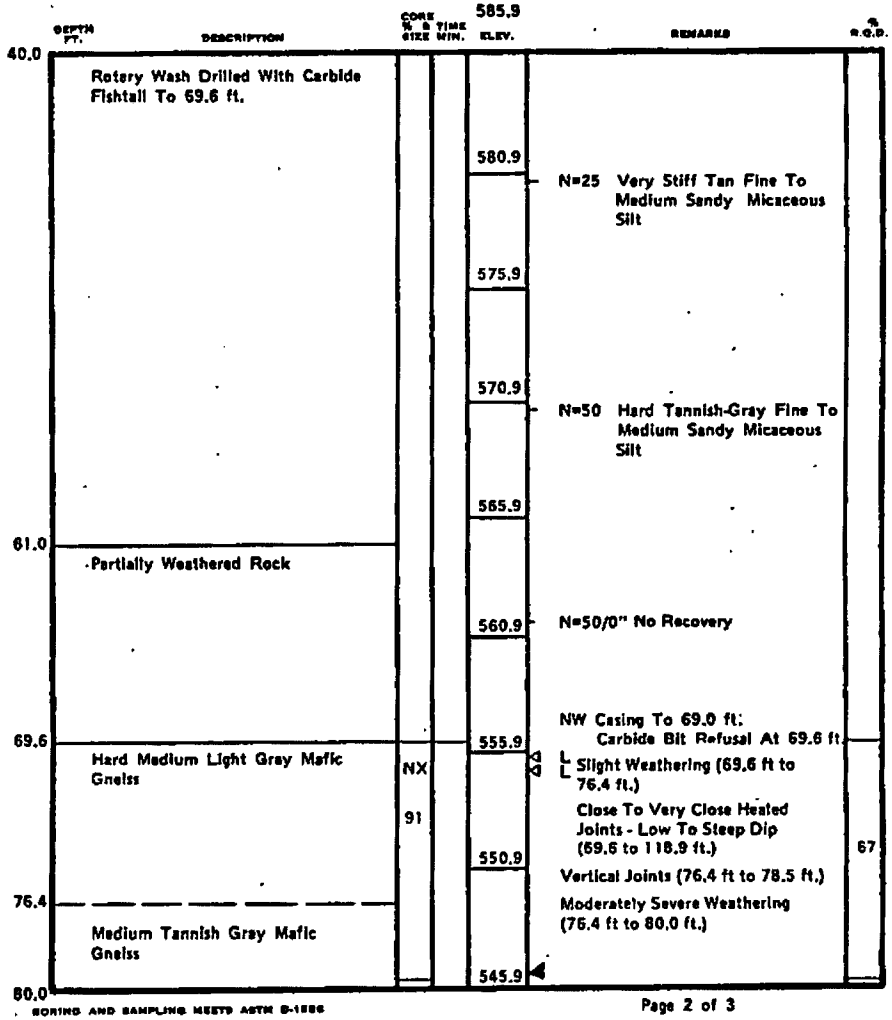
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-145P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

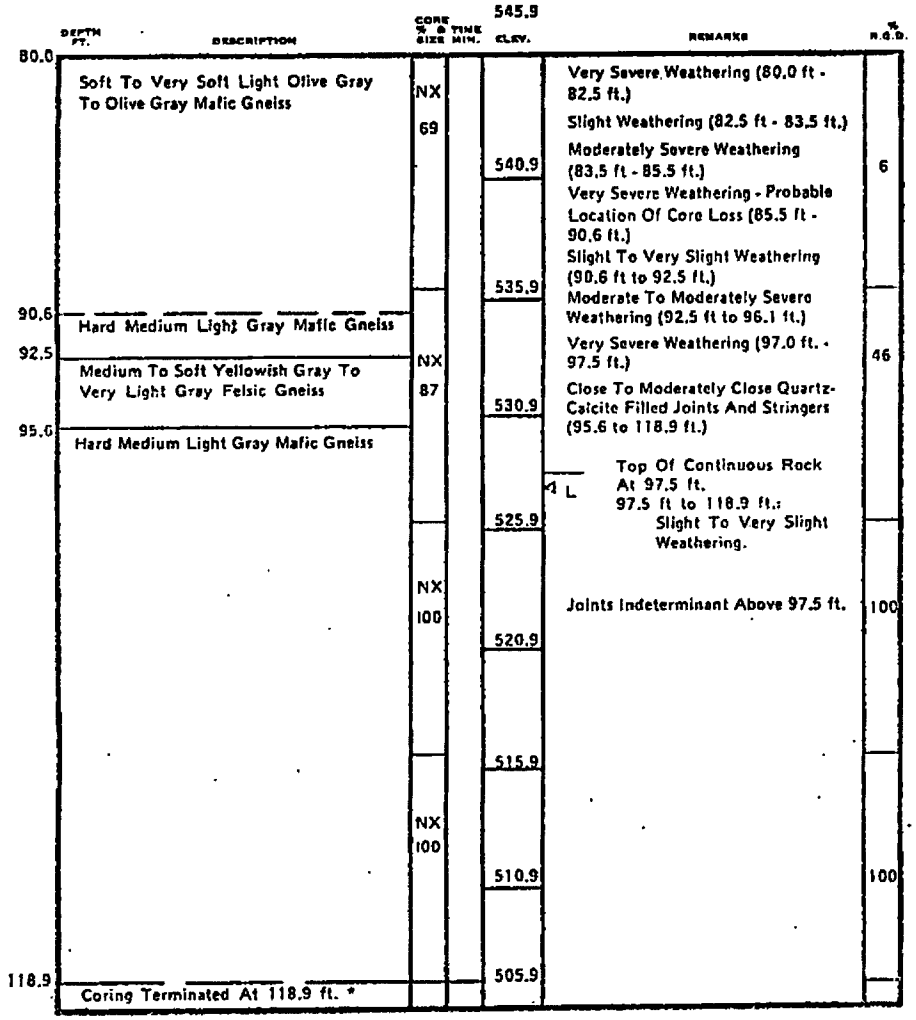
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-145P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

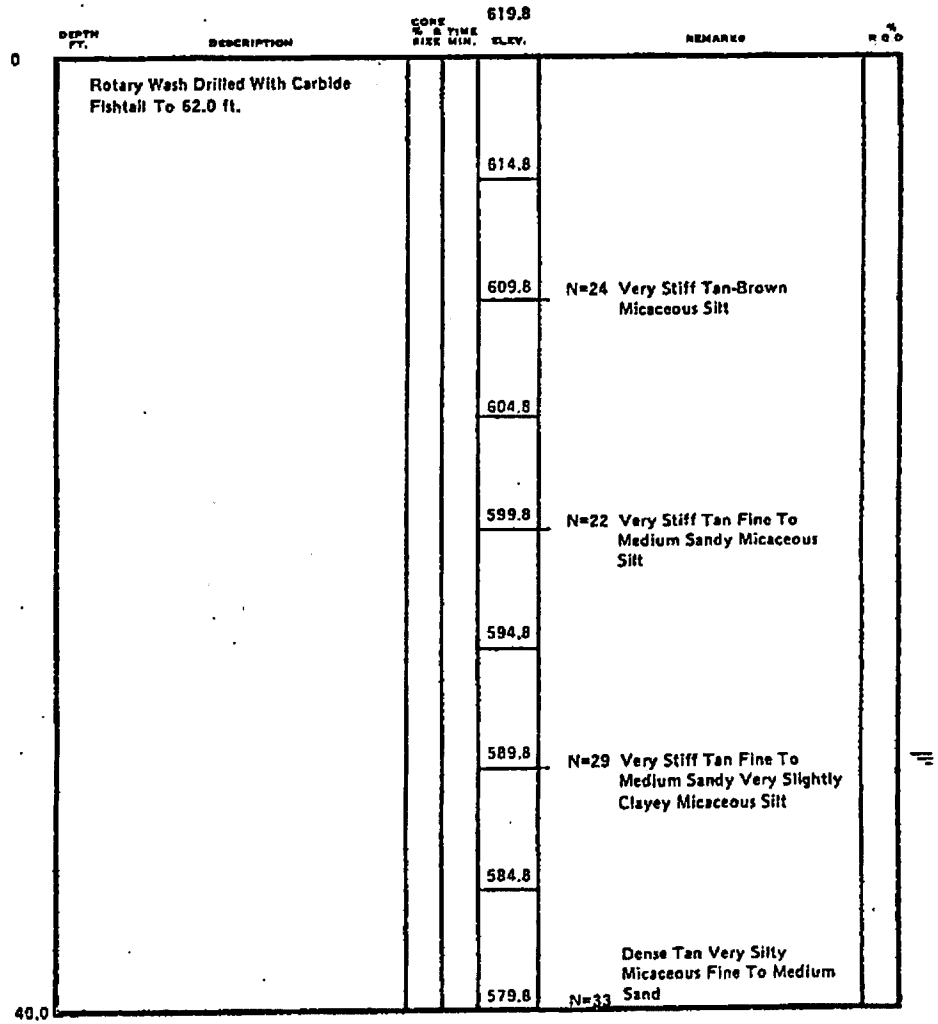
* Groundwater At 38.1 ft At 24 Hours
Drilling Water Loss At 79.7 ft.

Page 3 of 3

TEST BORING RECORD

BORING NO. B-145P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

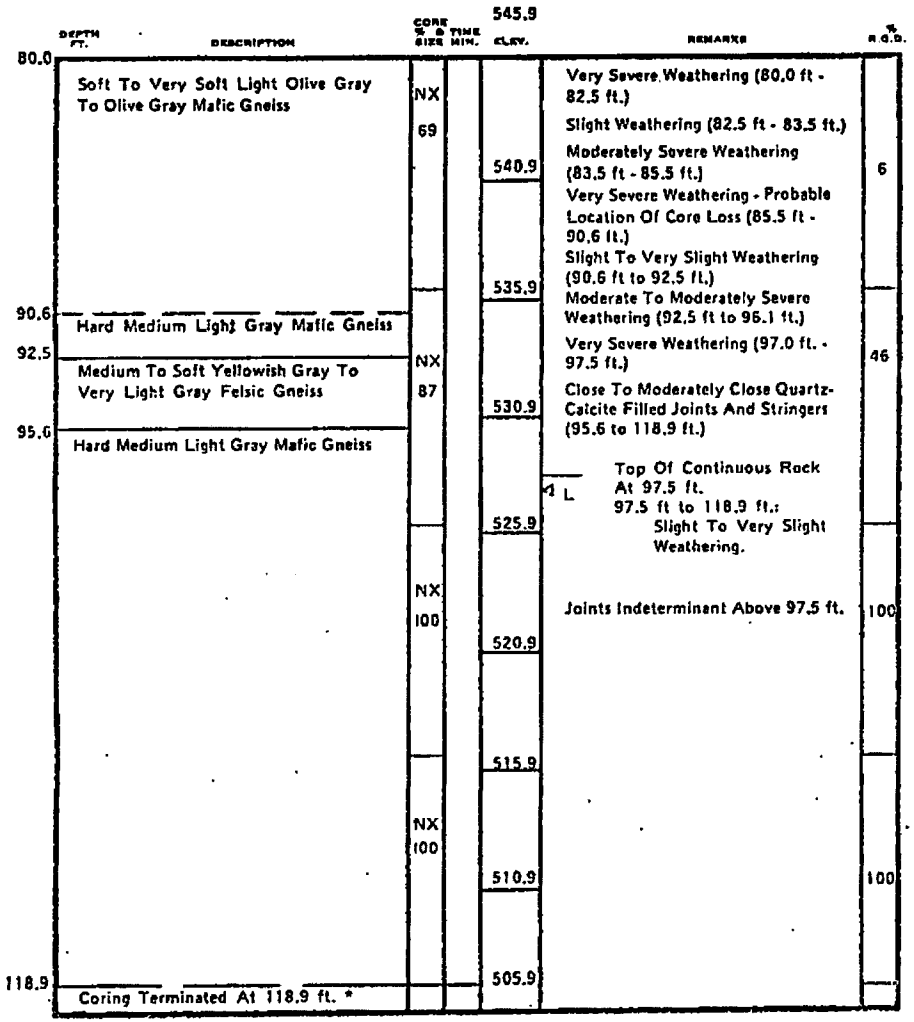
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-146P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

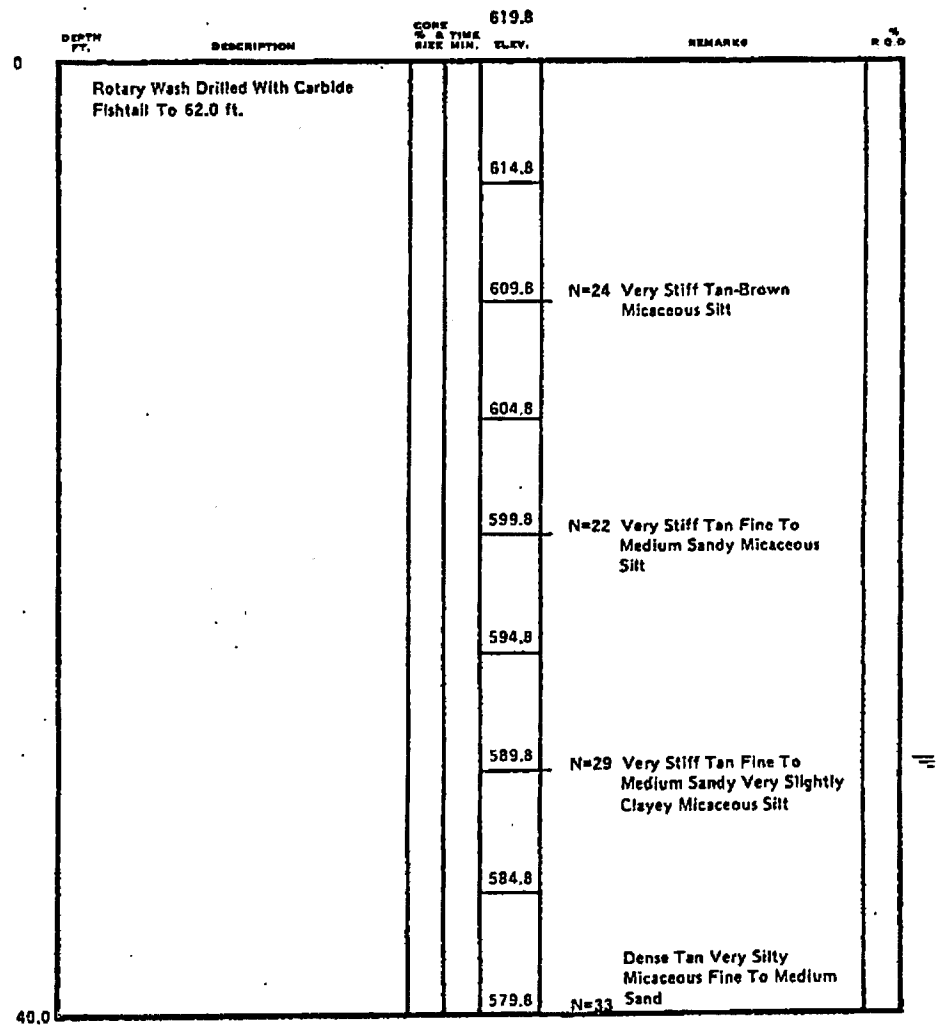
* Groundwater At 38.1 ft At 24 Hours
Drilling Water Loss At 79.7 ft.

Page 3 of 3

TEST BORING RECORD

BORING NO. B-145P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

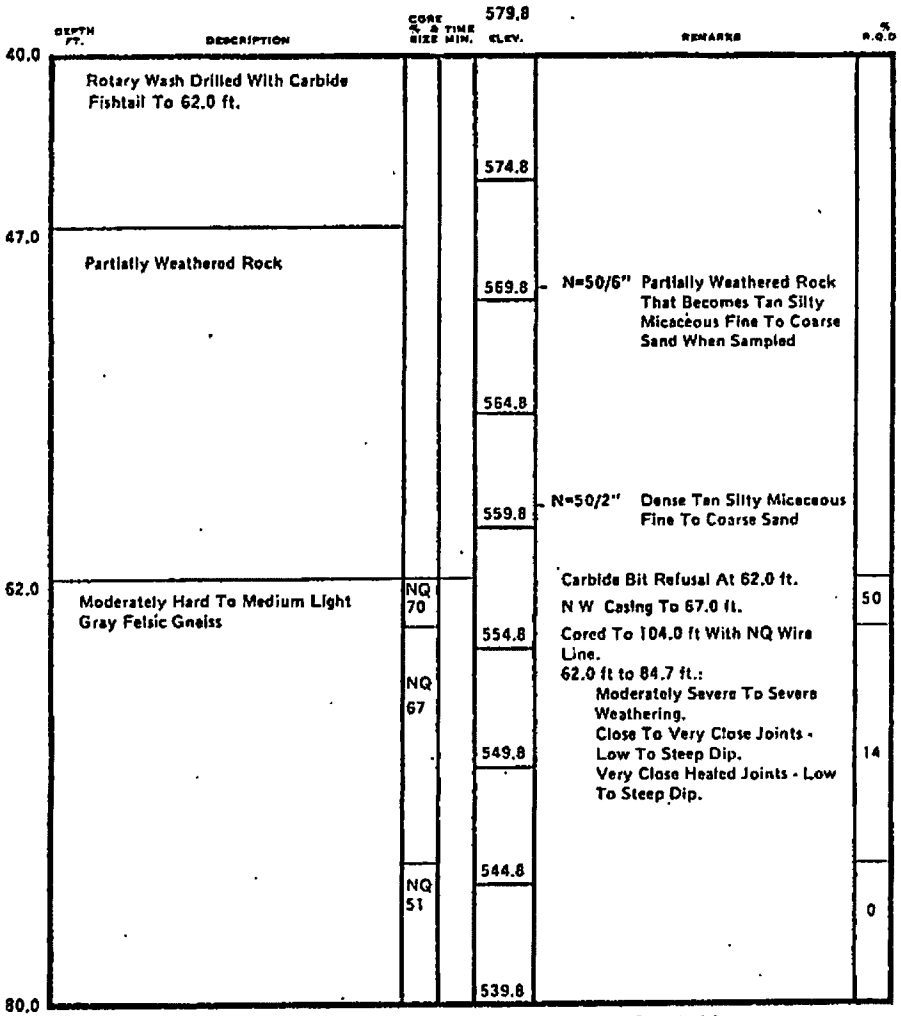
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-146P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

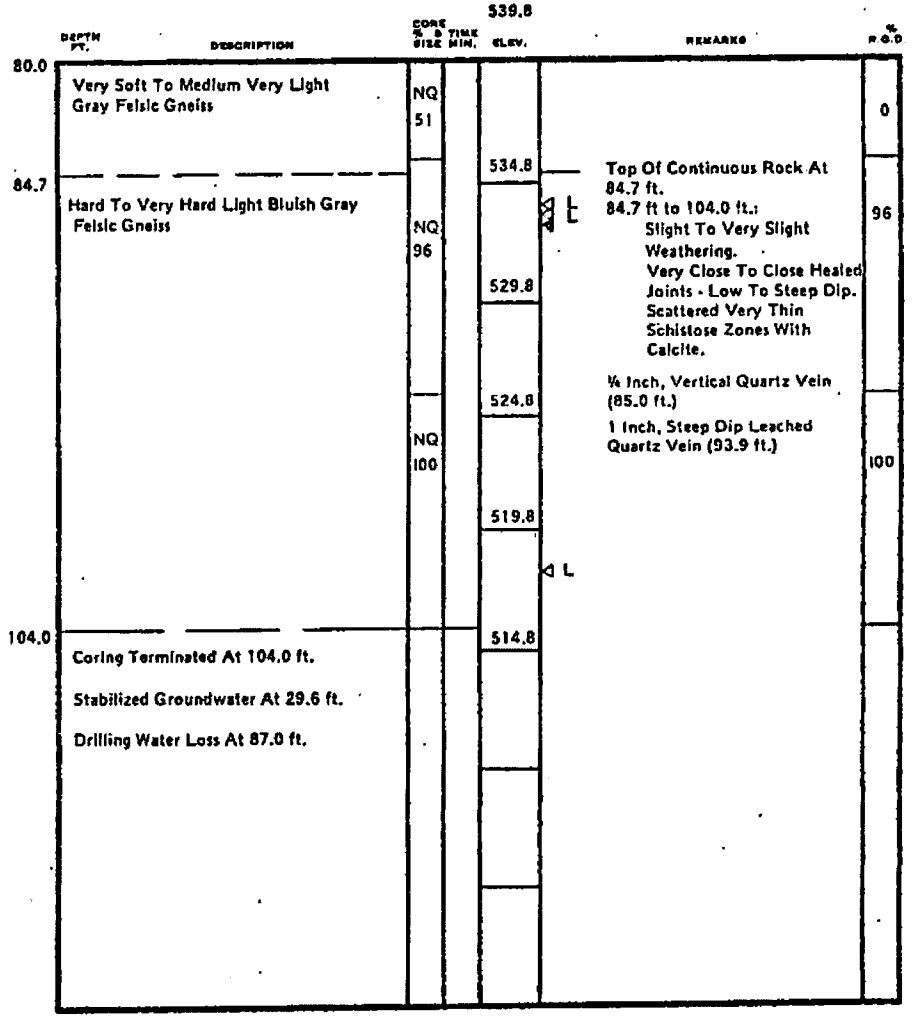
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-146P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

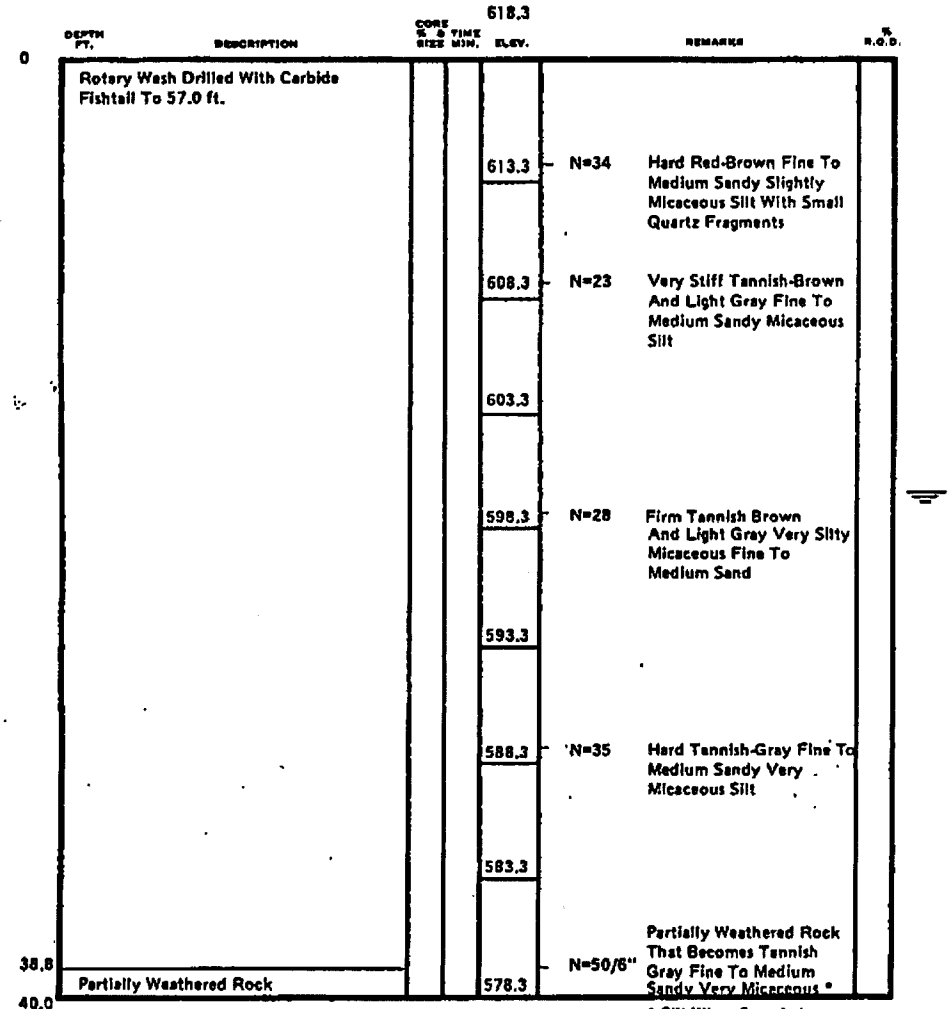
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-146P
DATE DRILLED 11-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

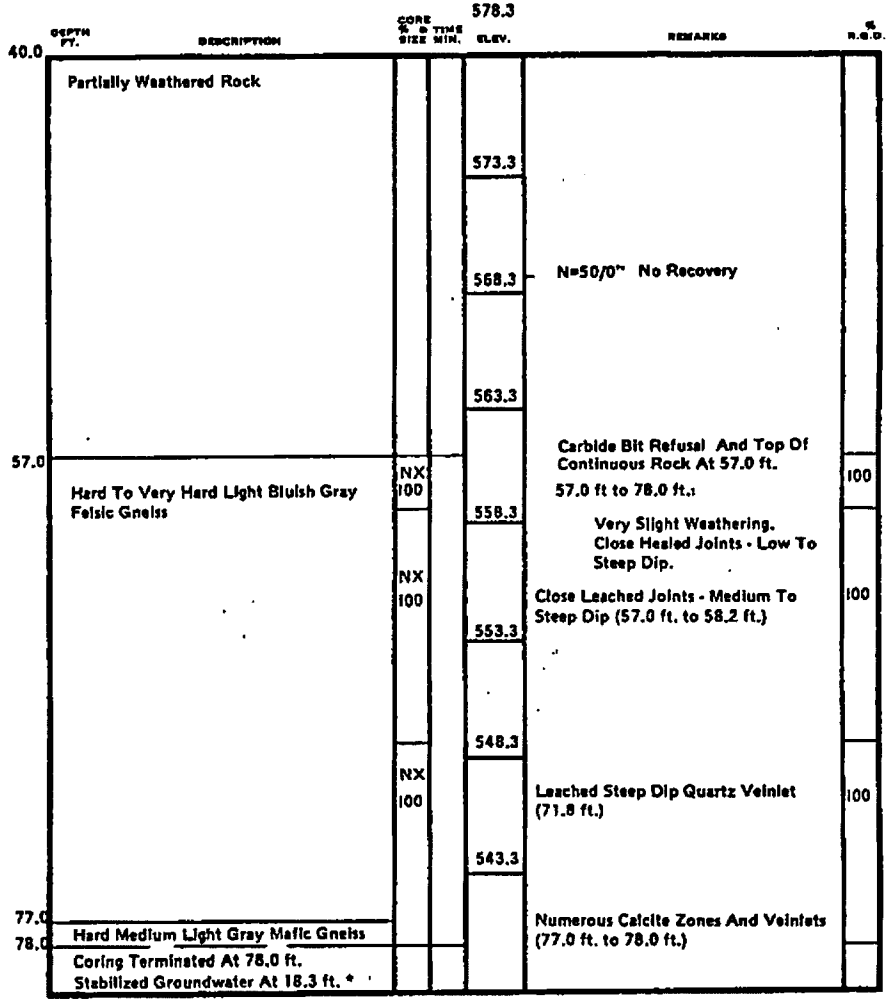
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-147P
DATE DRILLED 11-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

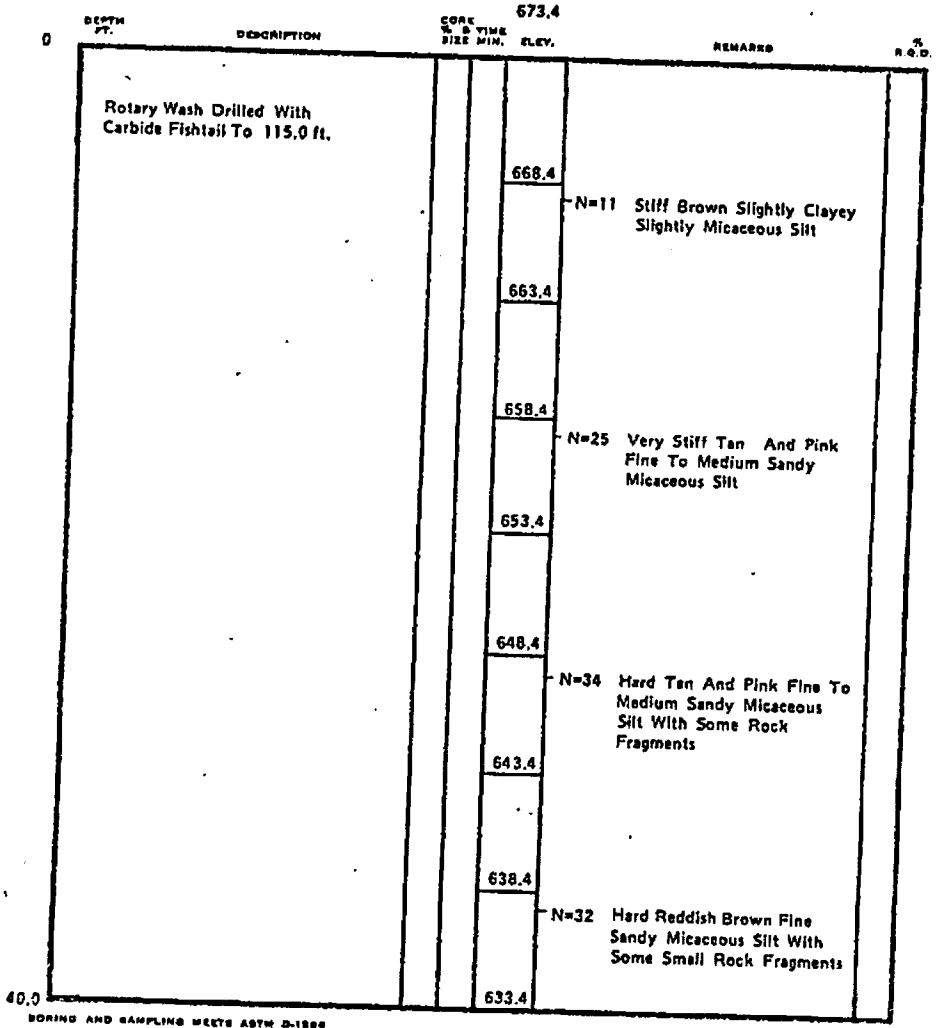
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-147P
DATE DRILLED 11-30-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[35]% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

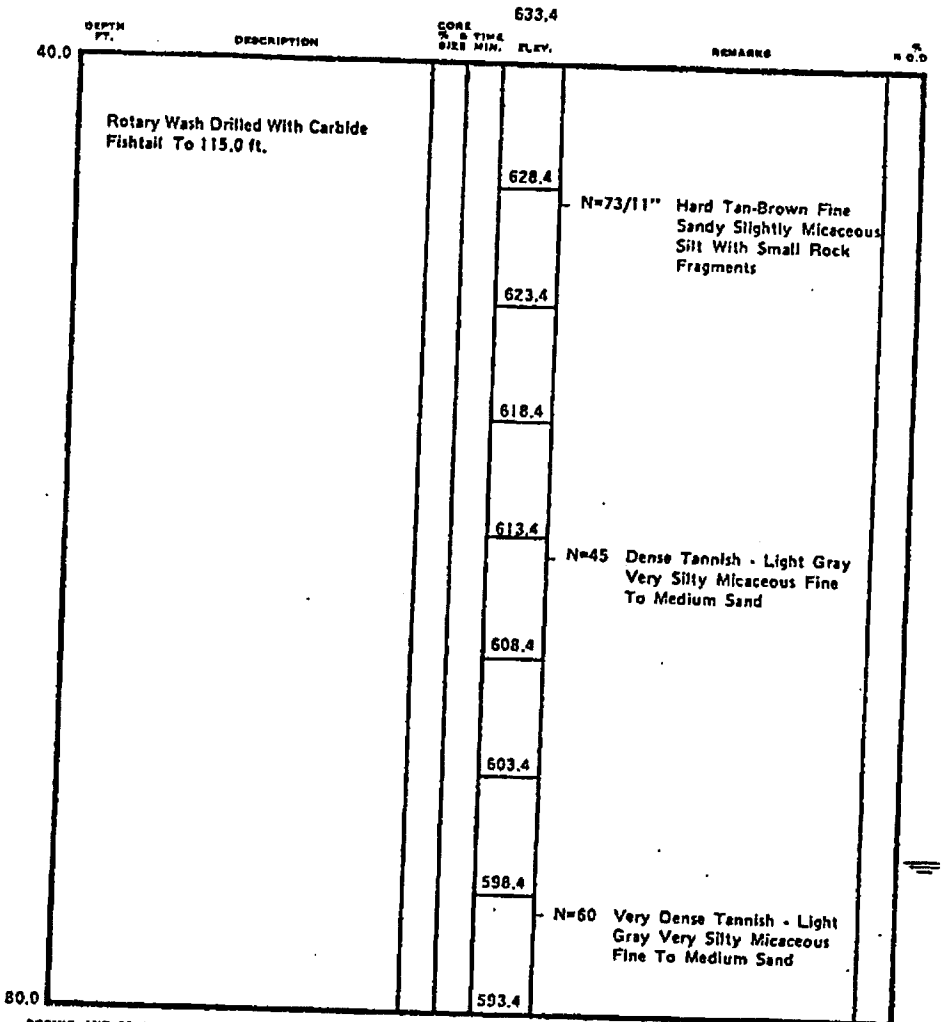
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-148P
DATE DRILLED 11-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[34]% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

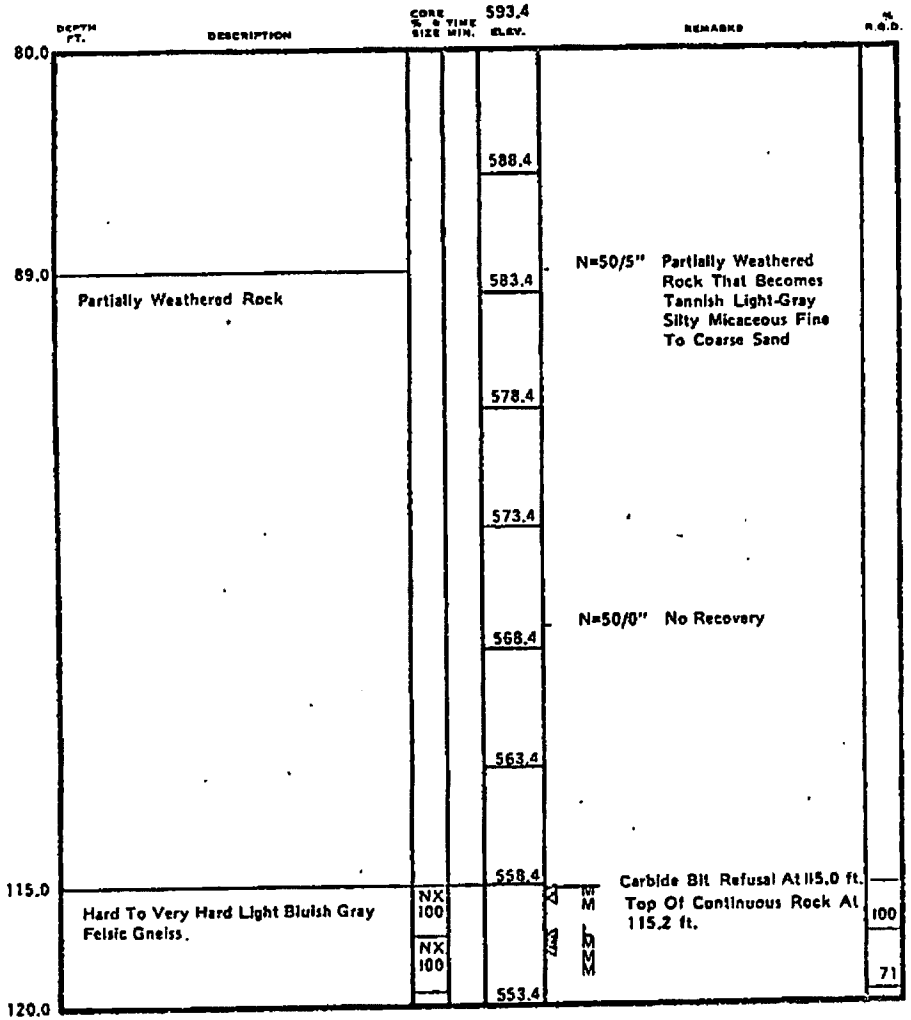
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-148P
DATE DRILLED 11-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

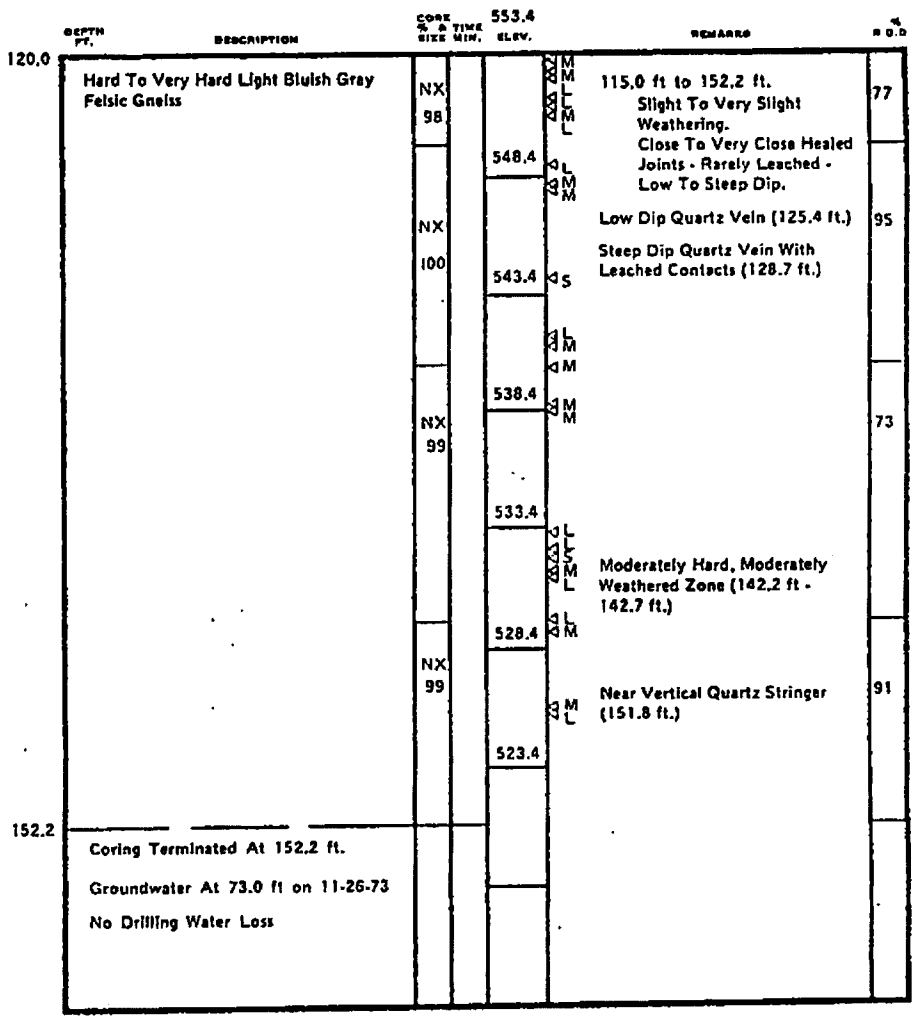
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-148P
DATE DRILLED 11-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

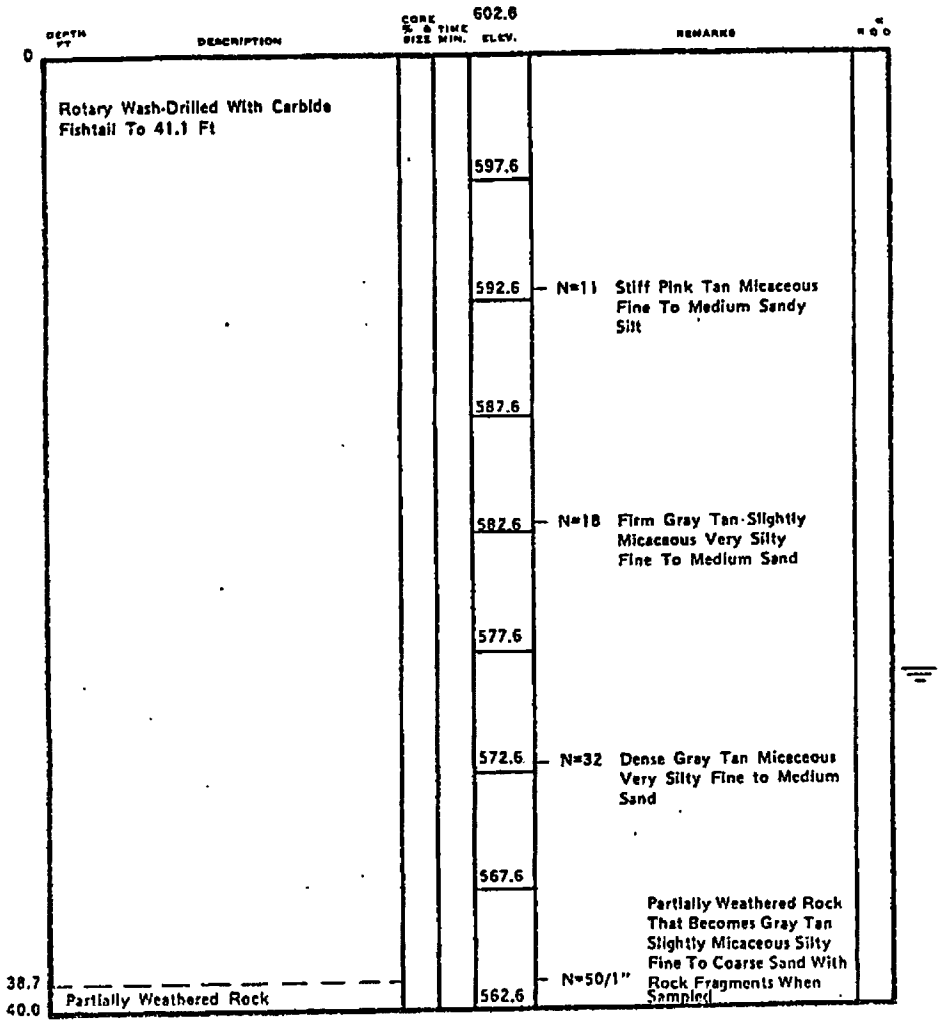
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-148P
DATE DRILLED 11-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

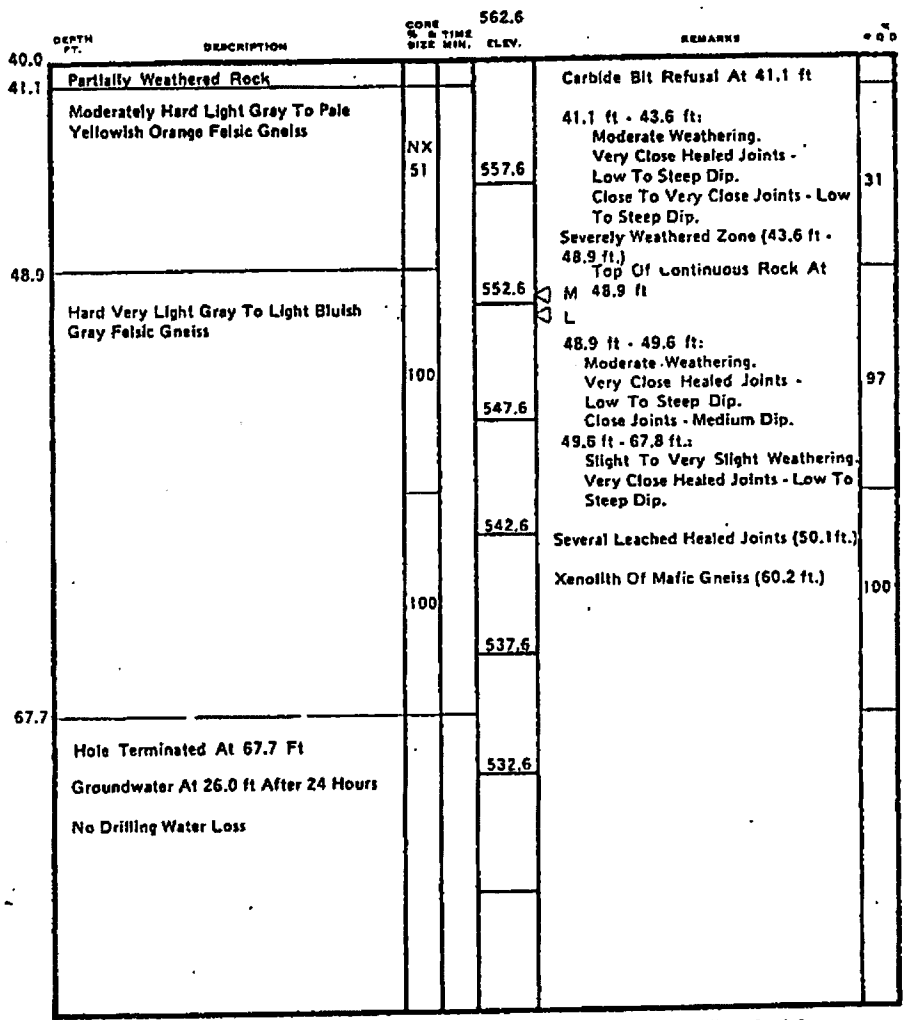
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-149P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

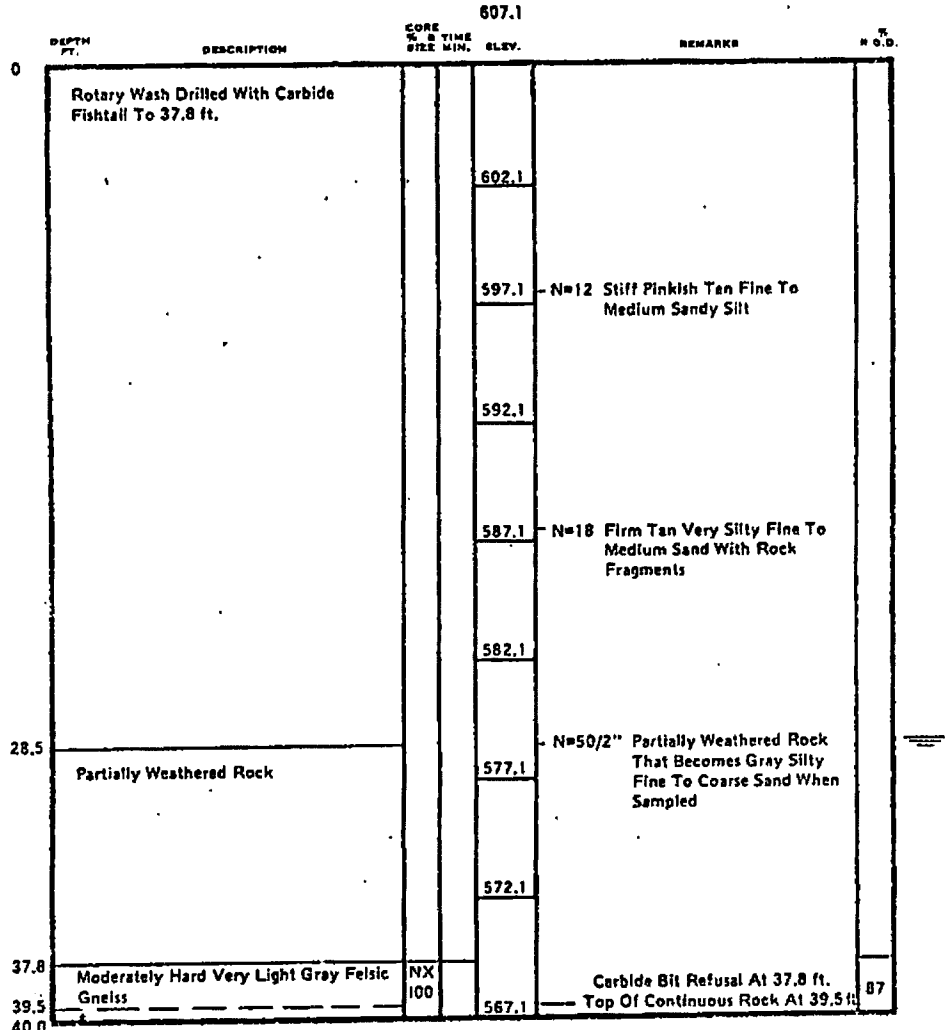
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-149P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

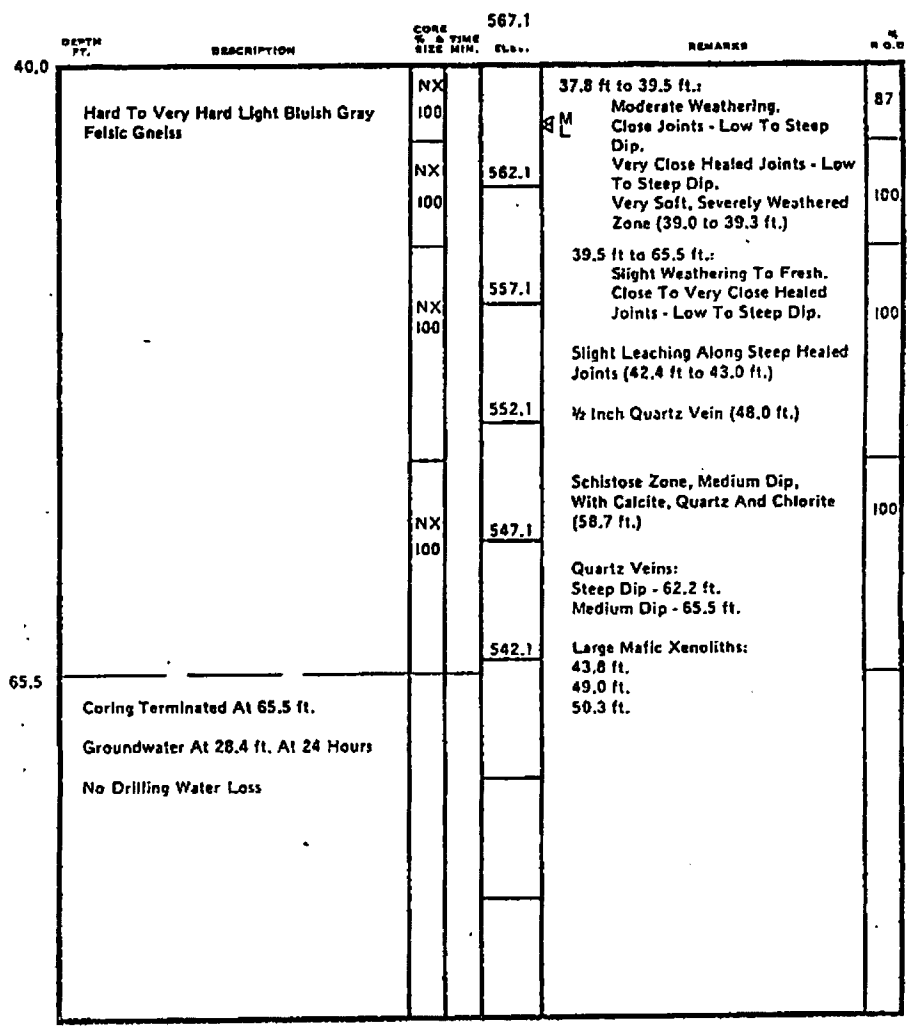
* Hard To Very Hard Light Bluish Gray Felsic Gneiss

Page 1 of 2

TEST BORING RECORD

BORING NO. B-150P
DATE DRILLED 12-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

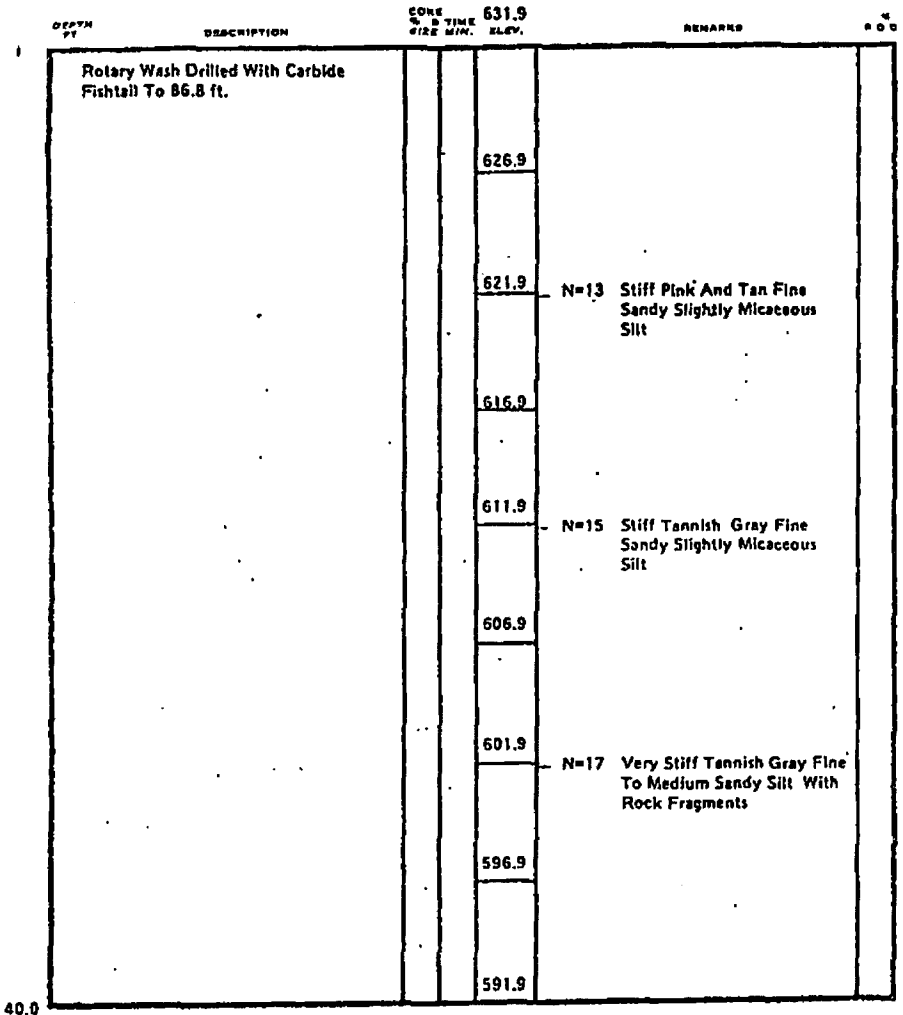
ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-150P
DATE DRILLED 12-11-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

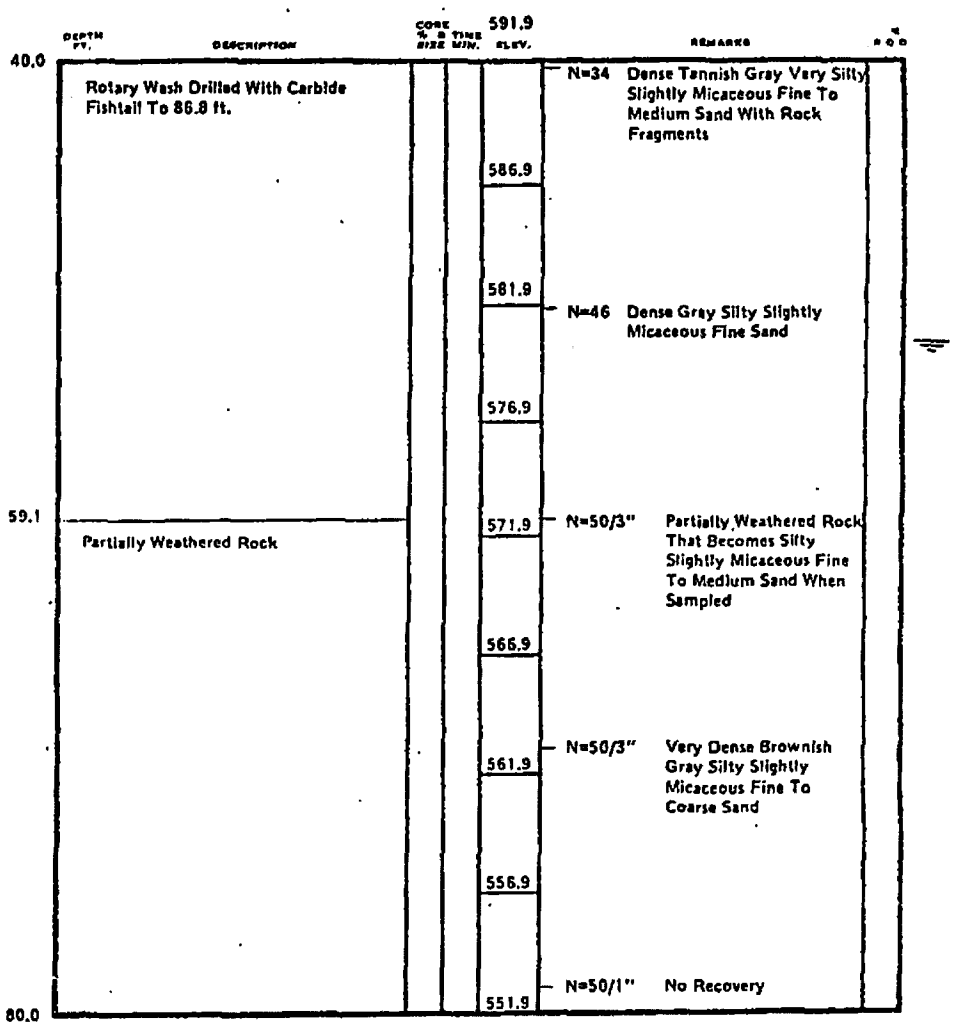
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-151P
DATE DRILLED 12-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

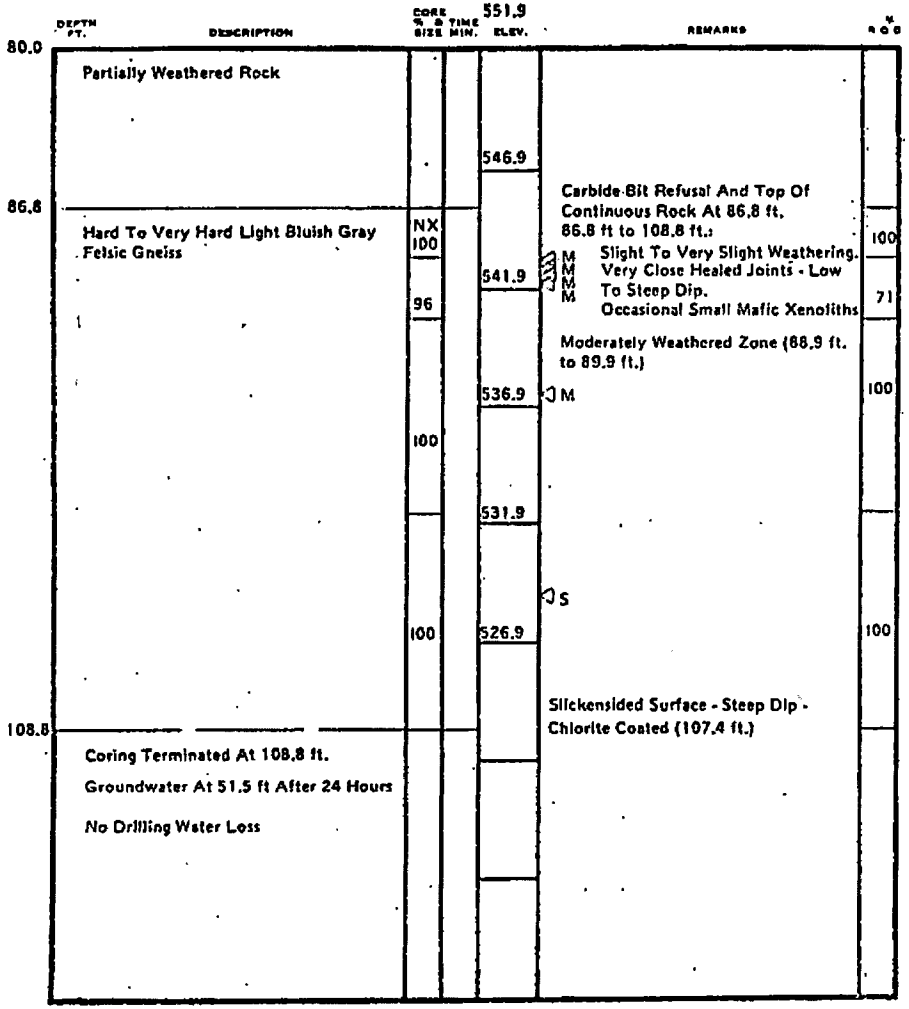
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-151P
DATE DRILLED 12-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

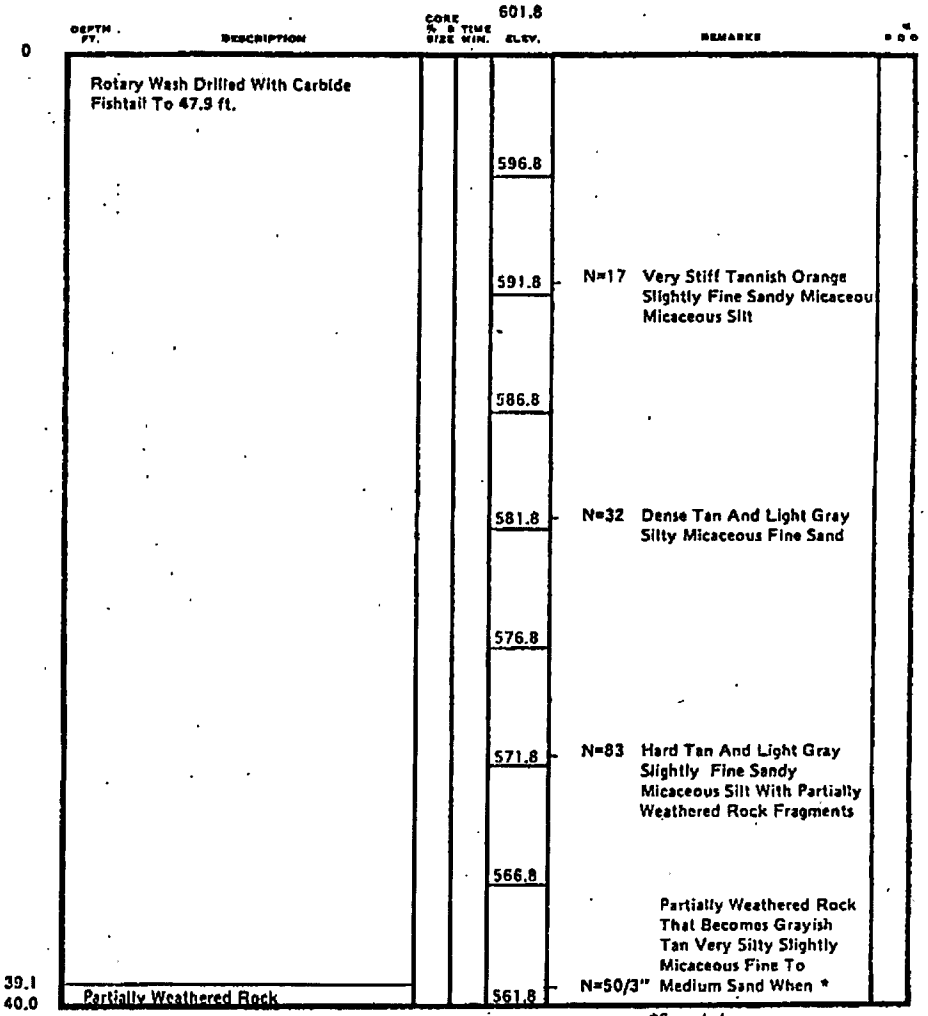
ROCK JOINT:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-151P
DATE DRILLED 12-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



*Sampled

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

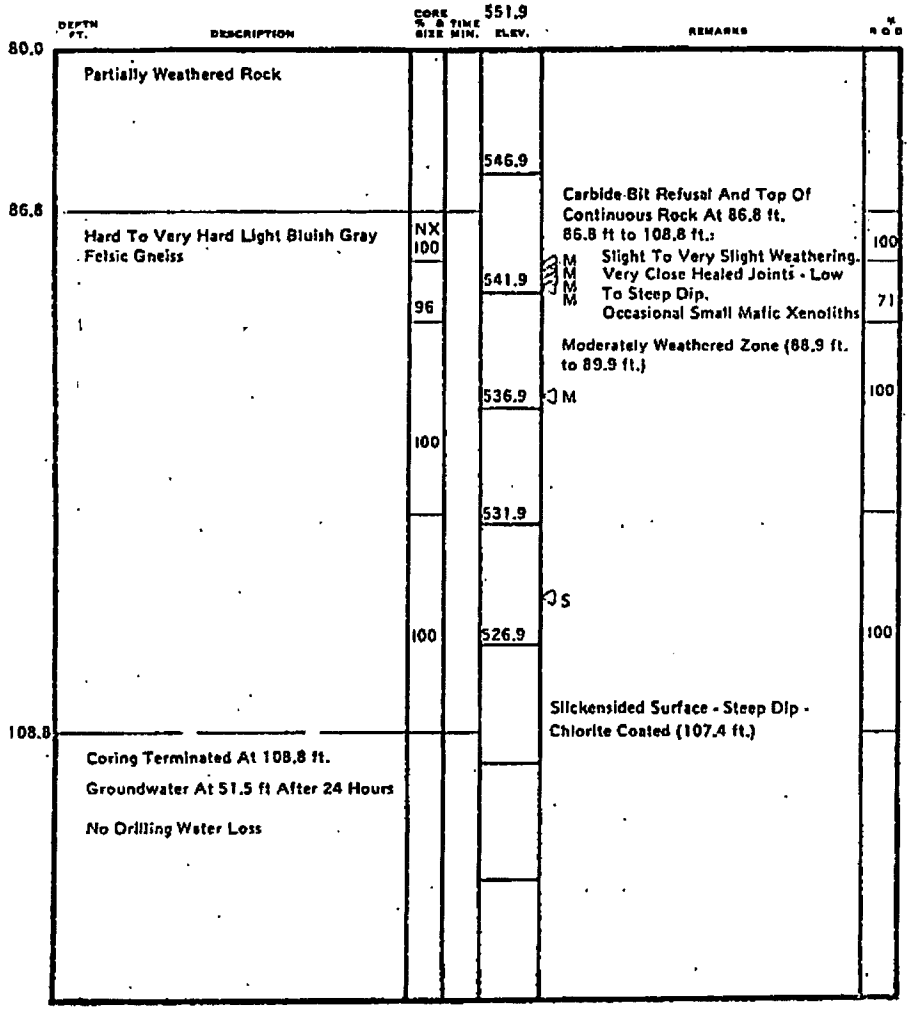
ROCK JOINT:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-152P
DATE DRILLED 1-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

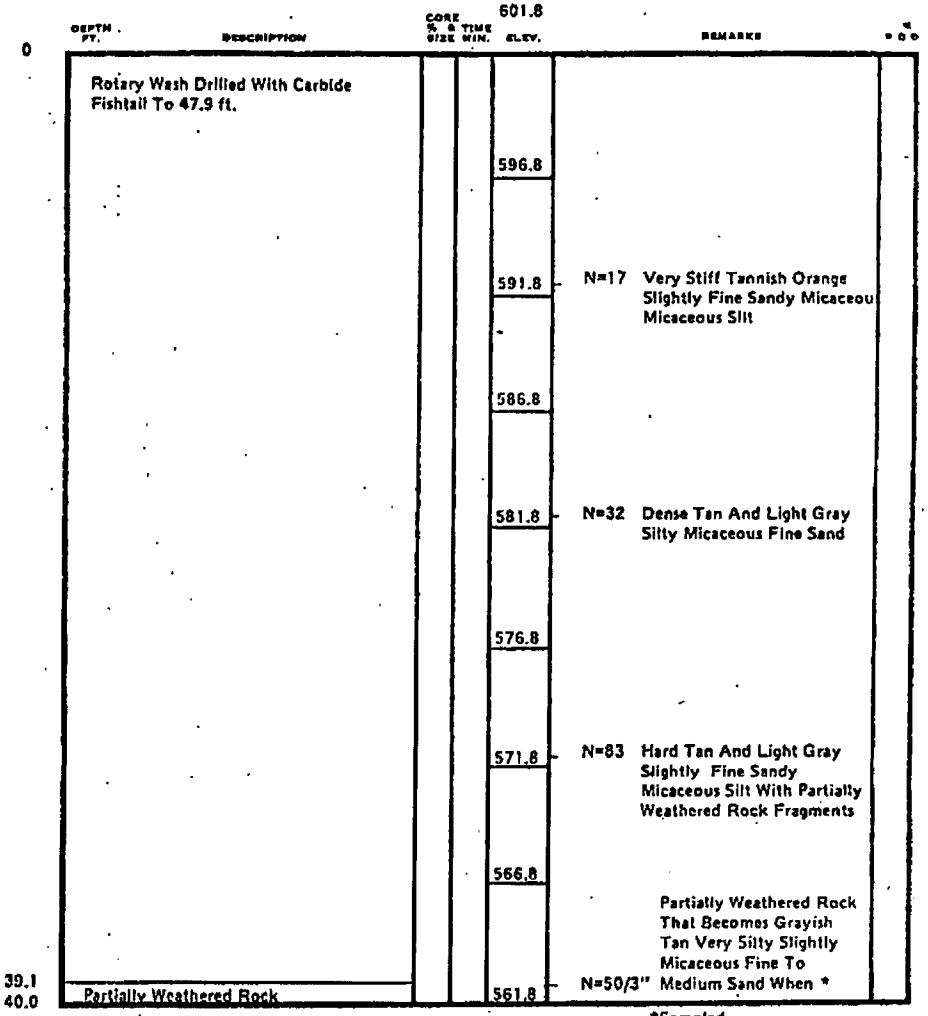
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-151P
DATE DRILLED 12-19-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

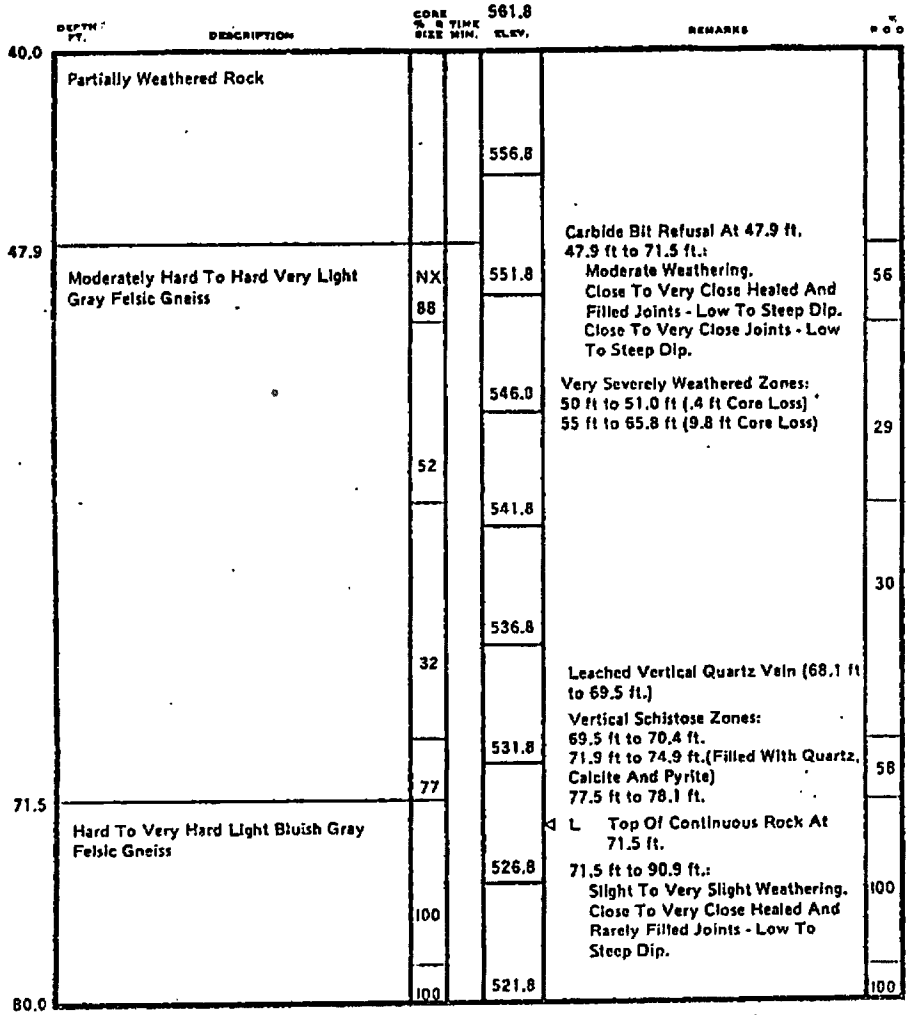
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

*Sampled

Page 1 of 3

TEST BORING RECORD

BORING NO. B-152P
DATE DRILLED 1-29-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

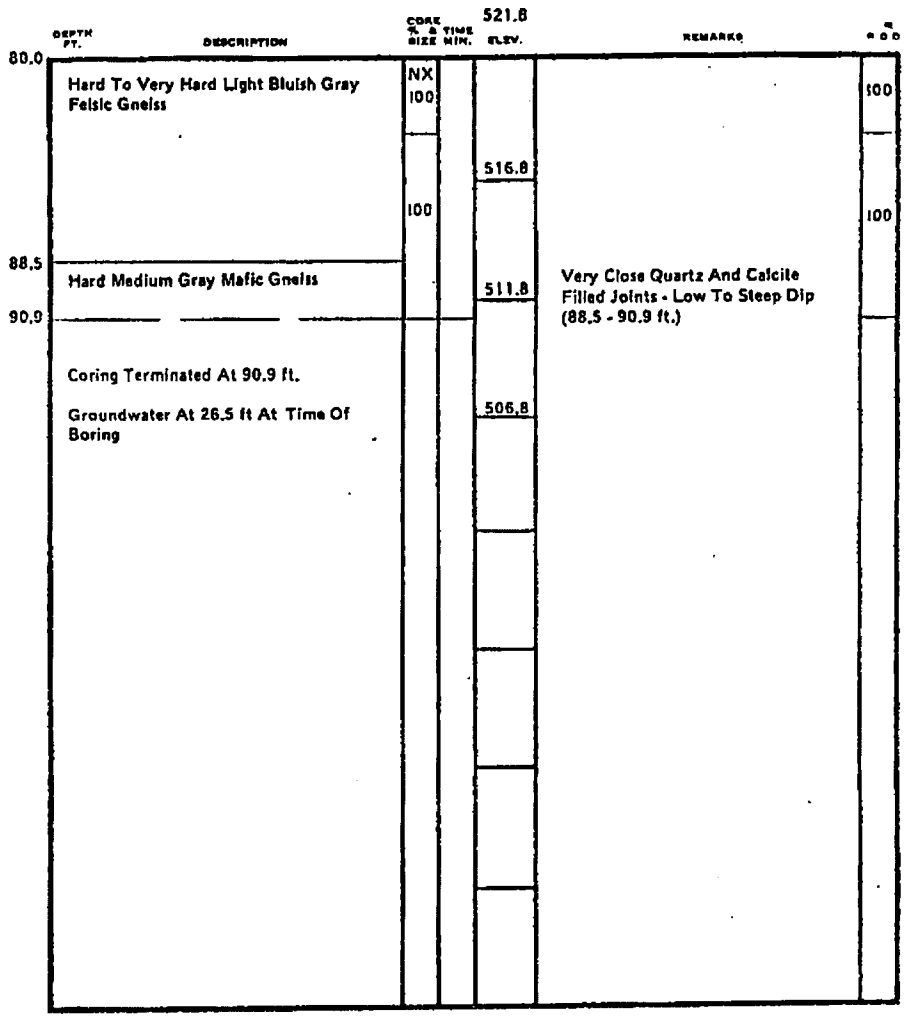
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-152P
DATE DRILLED 1-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

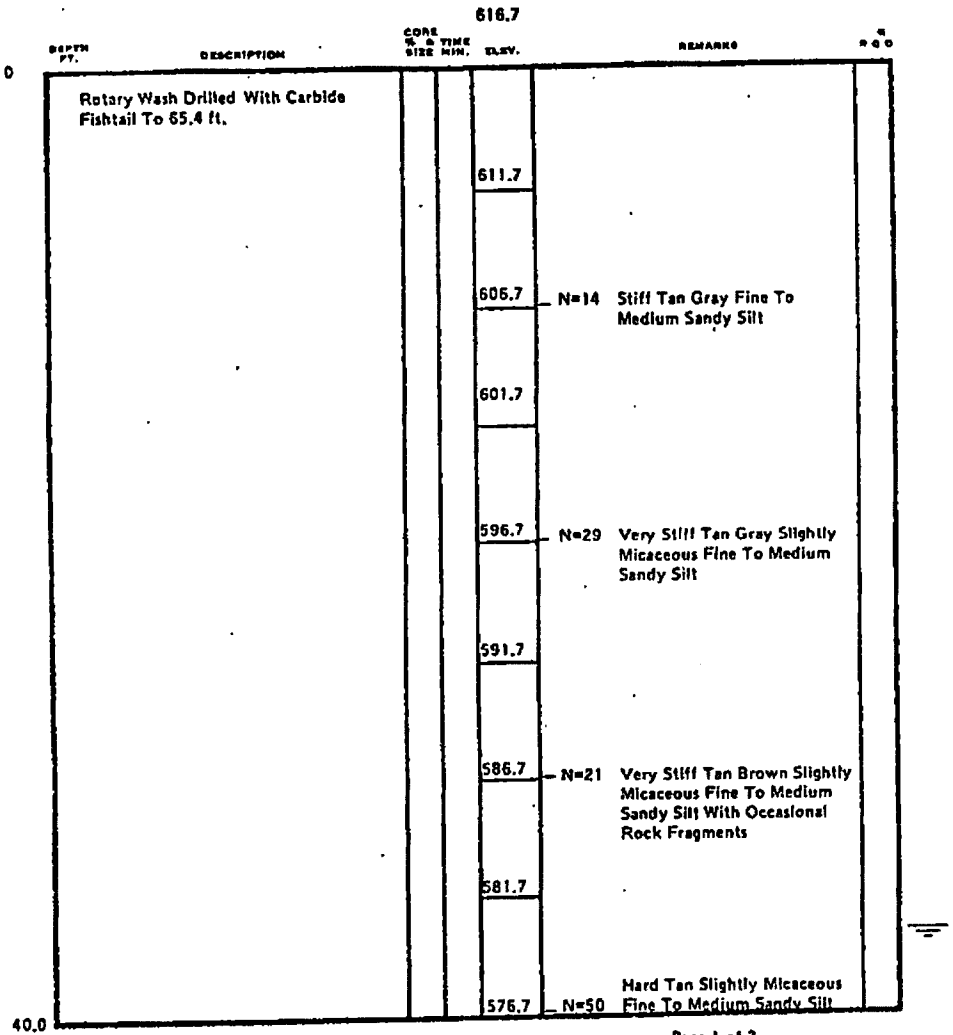
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-152P
DATE DRILLED 1-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

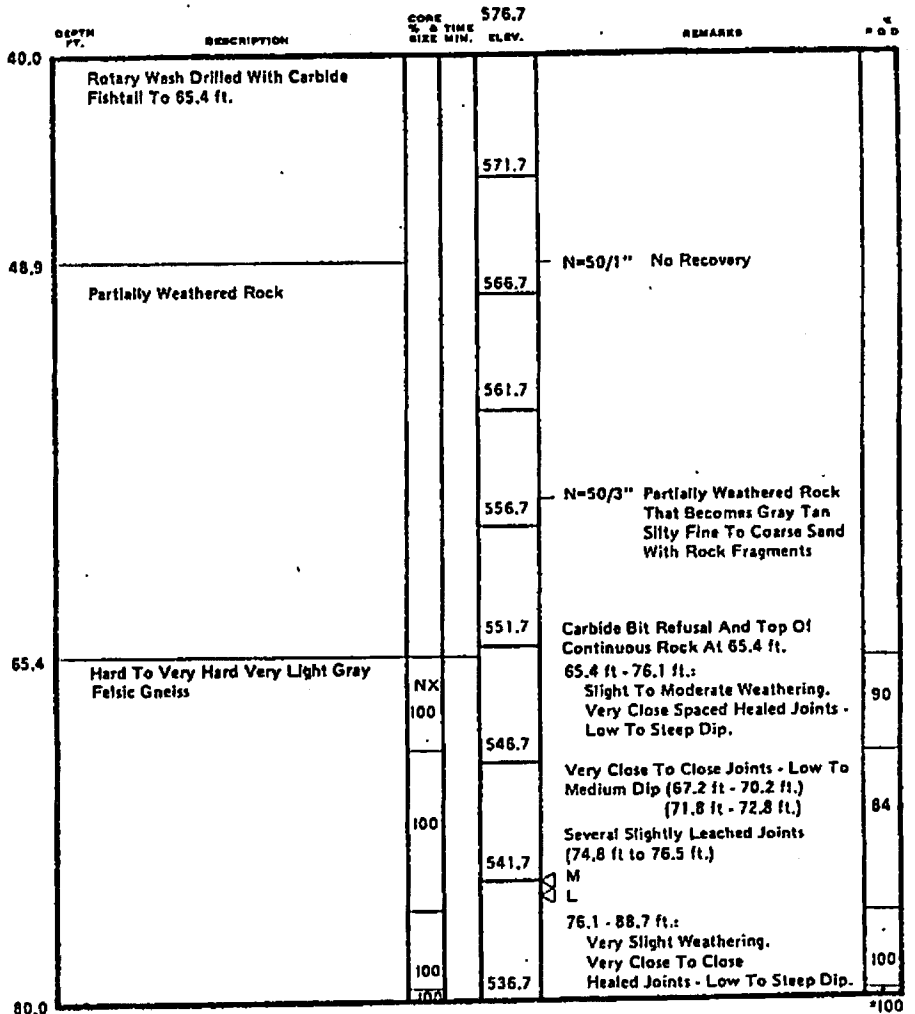
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1:1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-153P
DATE DRILLED 12-27-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

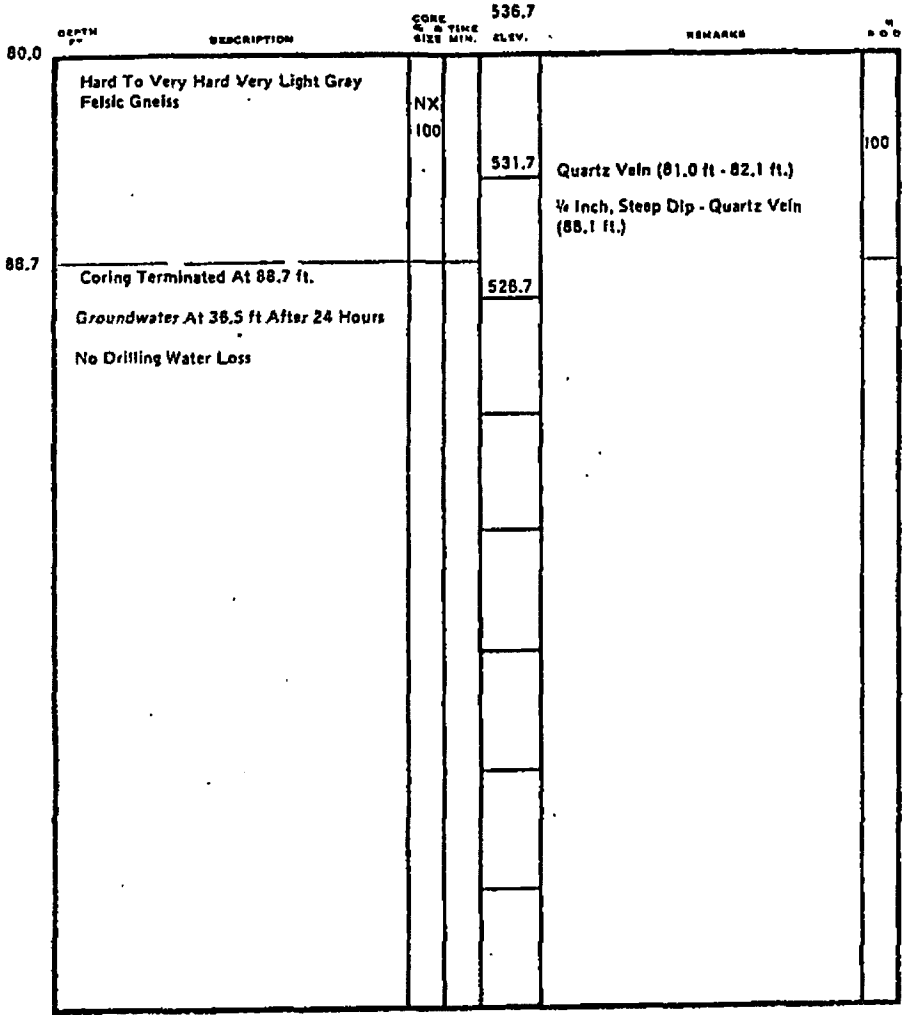
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1:1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-153P
DATE DRILLED 12-27-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
% ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

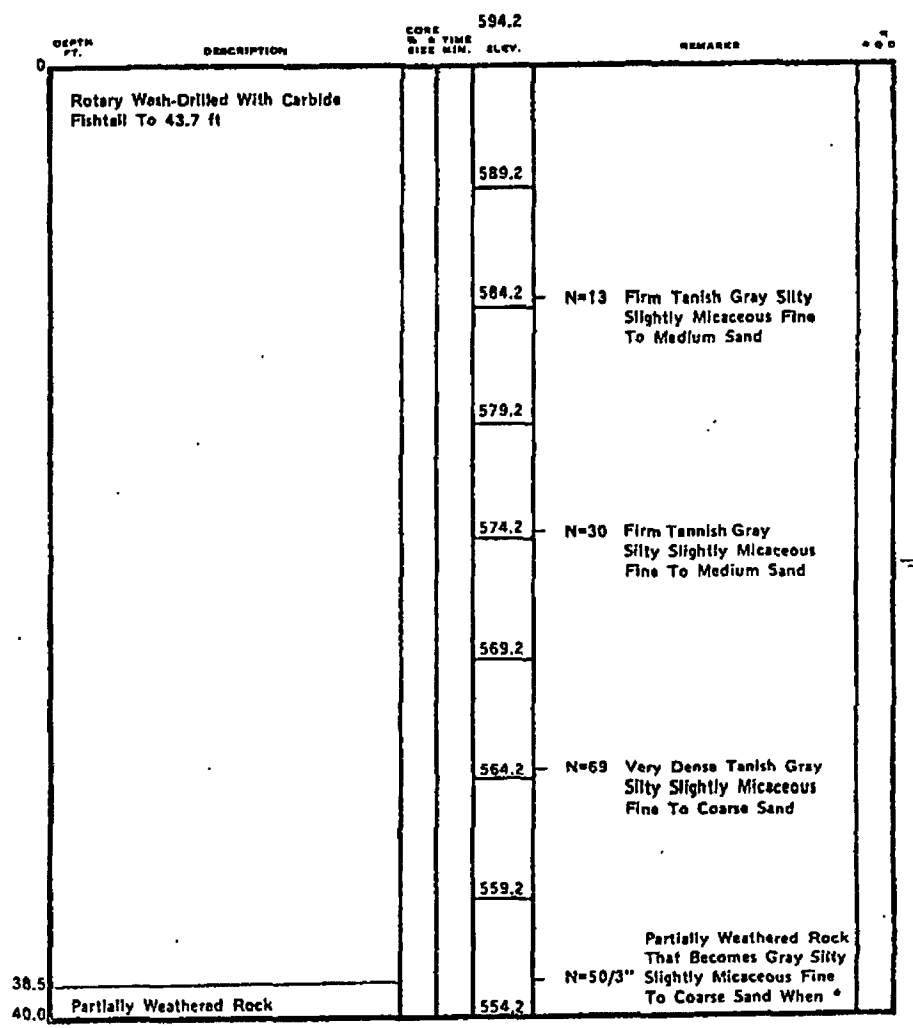
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-153P
DATE DRILLED 12-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
% ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

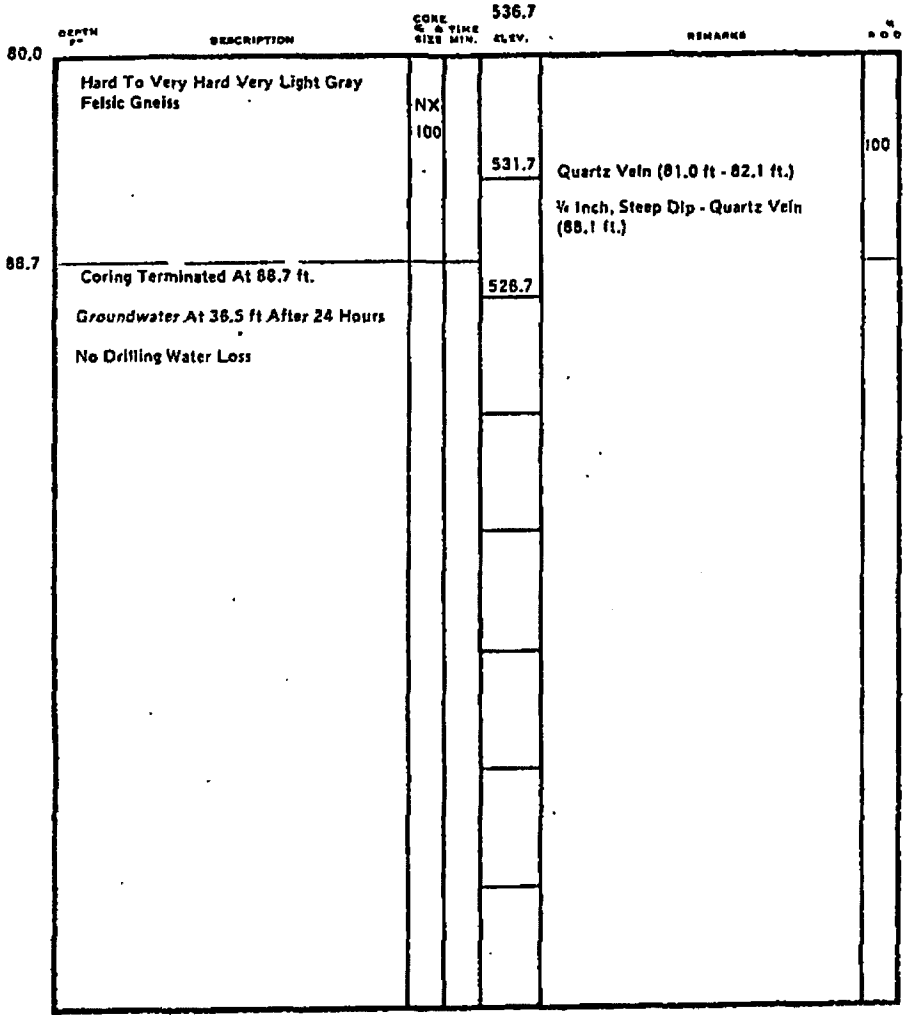
* Sampled

Page 1 of 2

TEST BORING RECORD

BORING NO. B-154P
DATE DRILLED 12-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◀ ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-153P
DATE DRILLED 12-27-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◀ ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

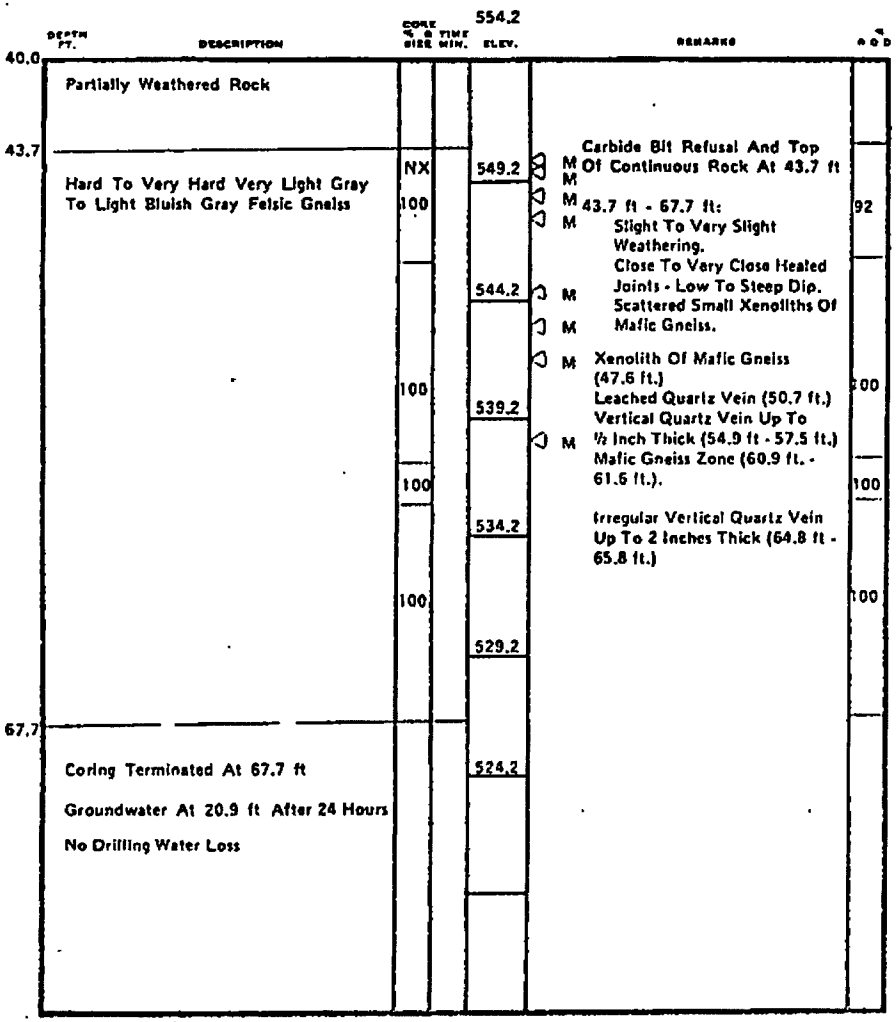
* Sampled

Page 1 of 2

TEST BORING RECORD

BORING NO. B-154P
DATE DRILLED 12-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

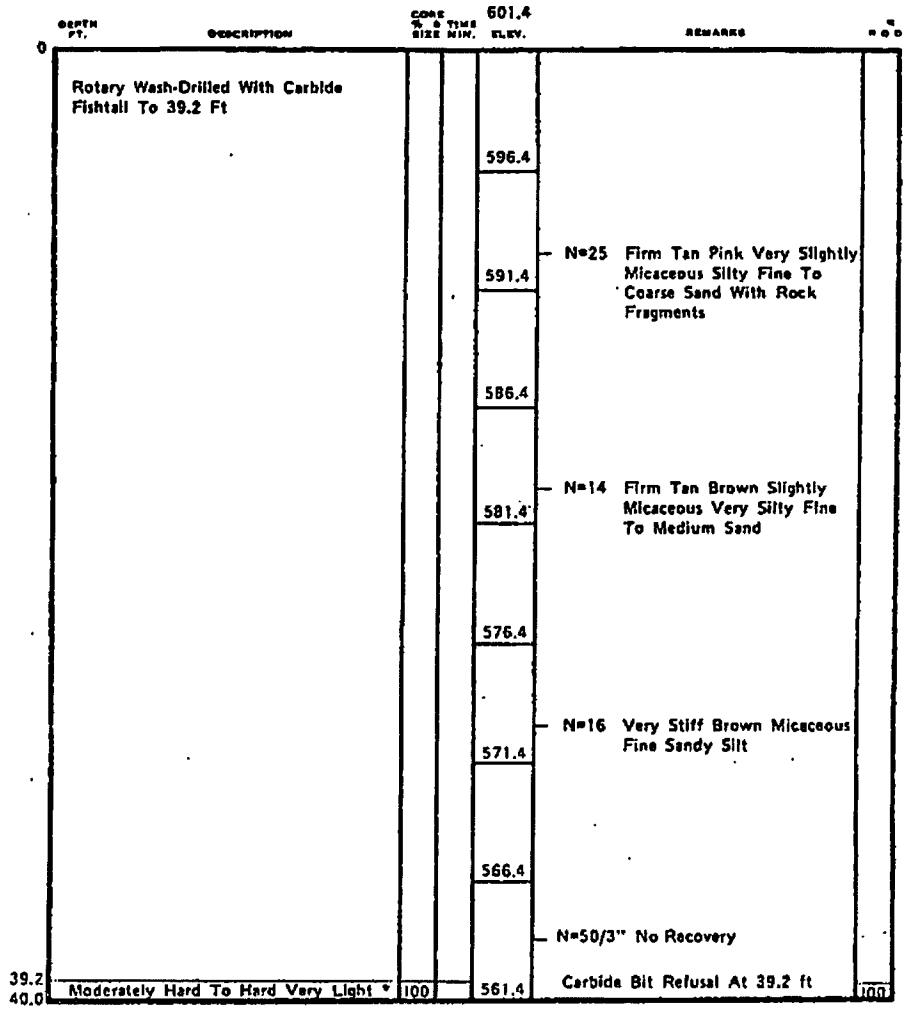
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-154P
DATE DRILLED 12-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

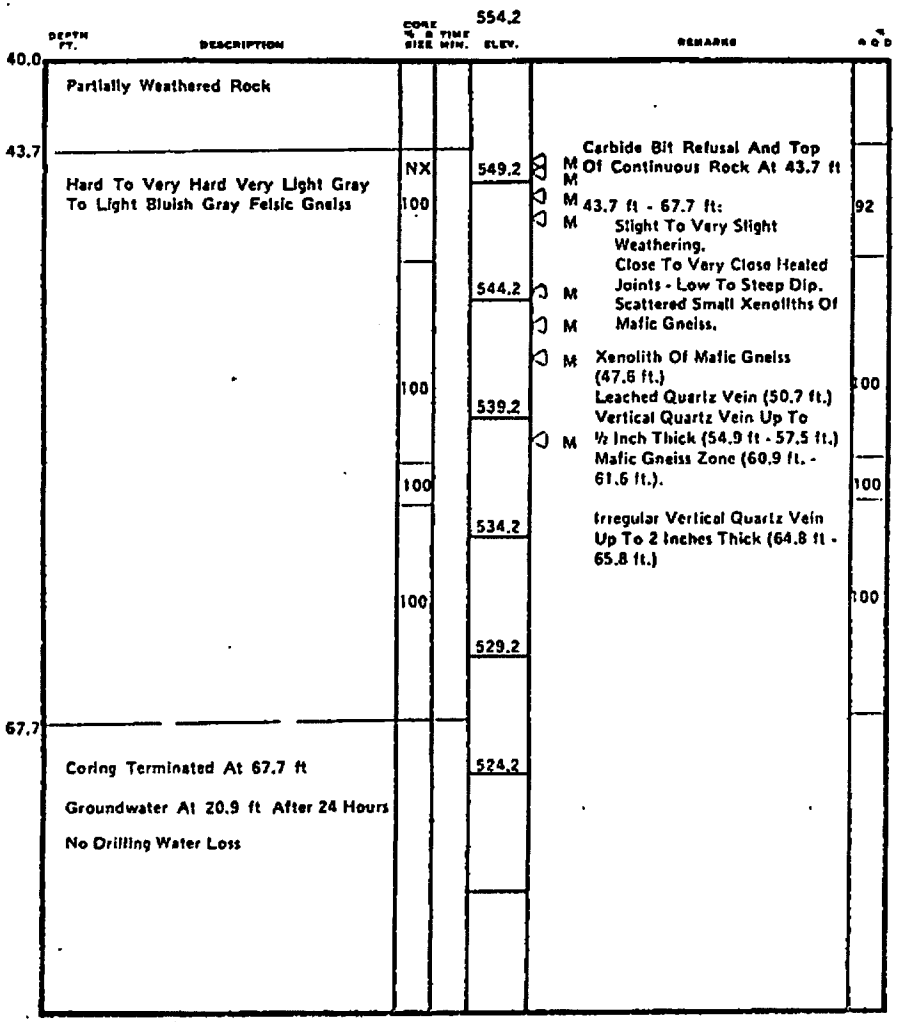
* Gray Felsic Gneiss

Page 1 of 2

TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-73
JOB NO CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

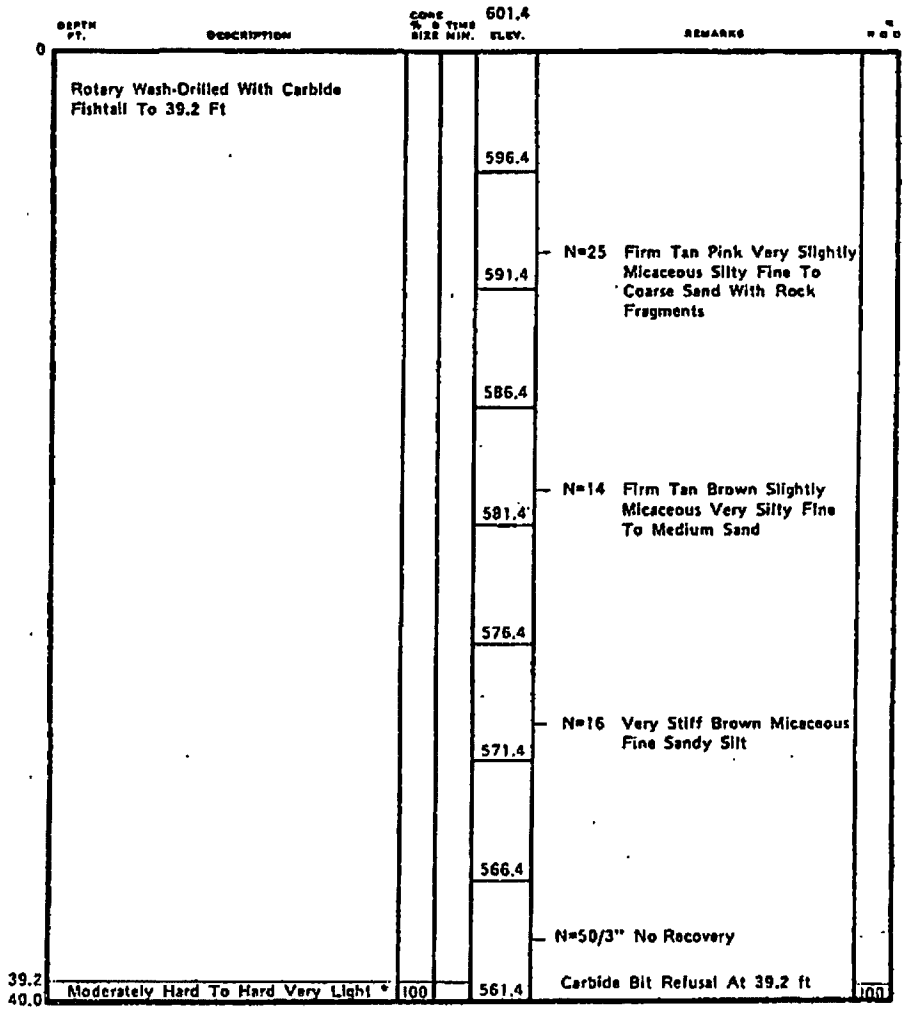
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-154P
DATE DRILLED 12-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

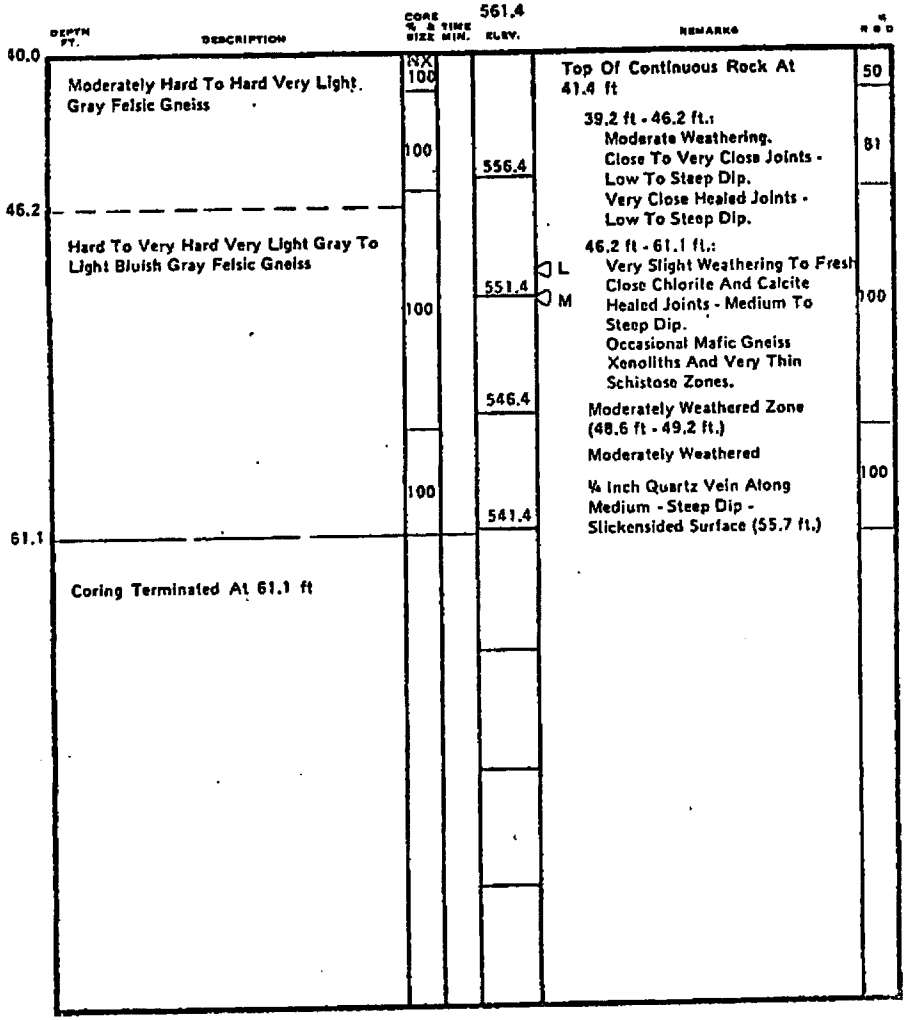
* Gray Felsic Gneiss

Page 1 of 2

TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

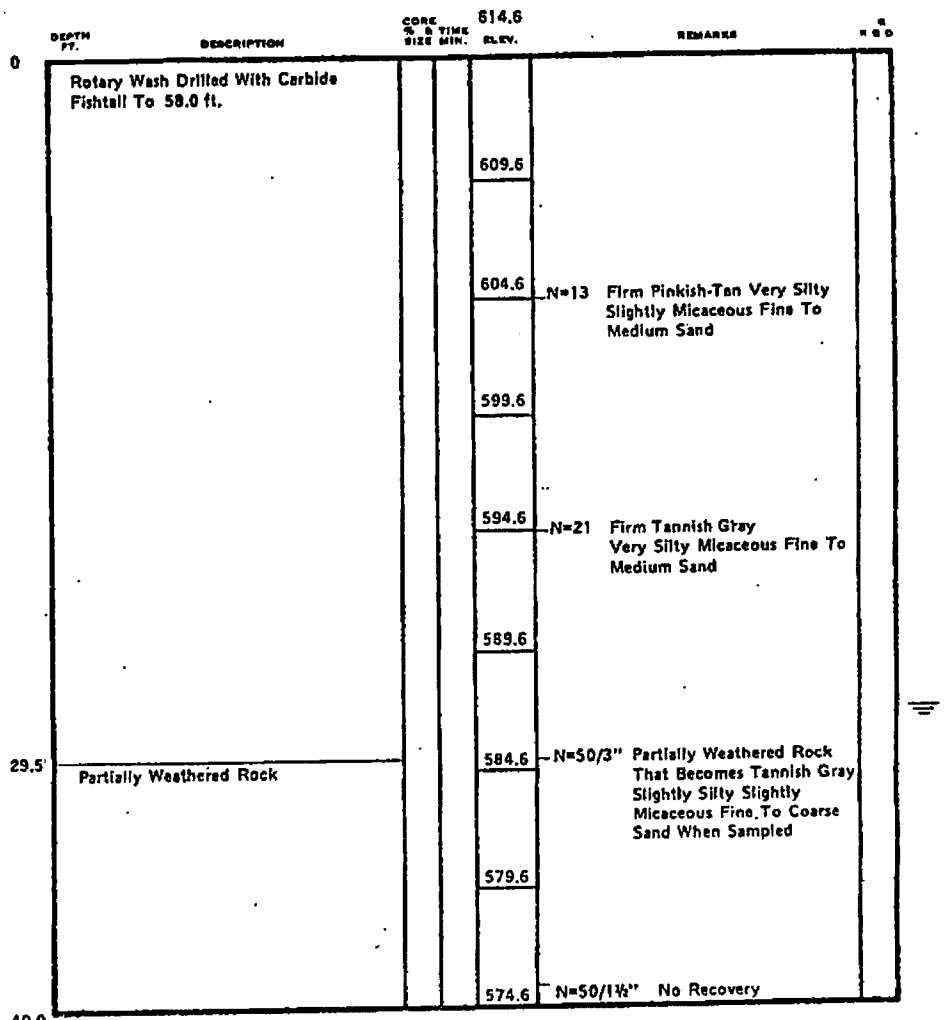
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

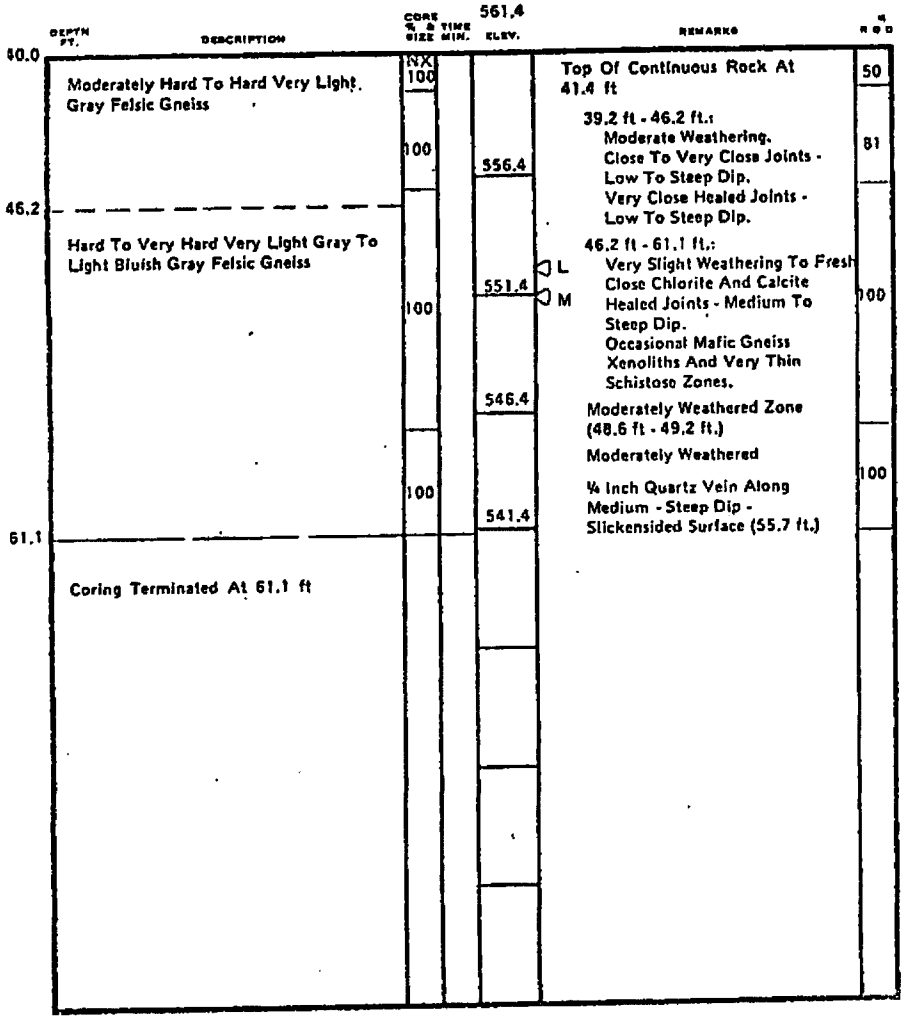
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-156P
DATE DRILLED 1-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



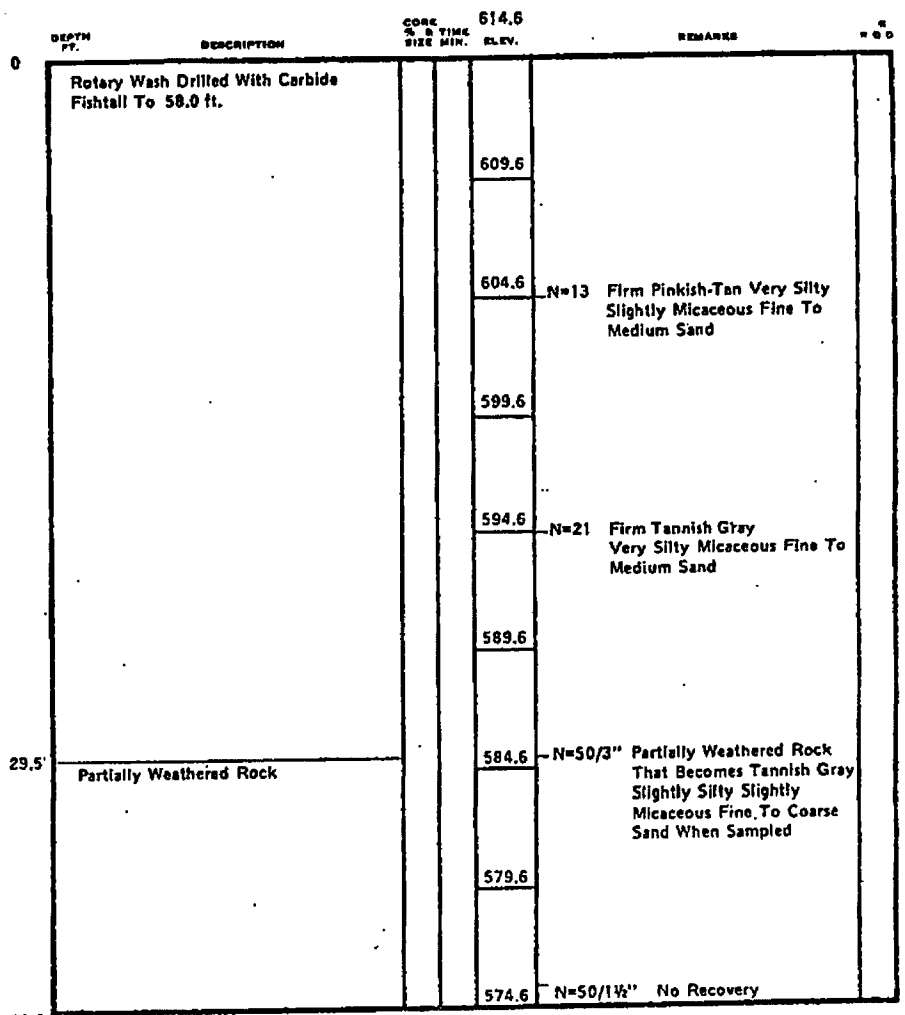
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



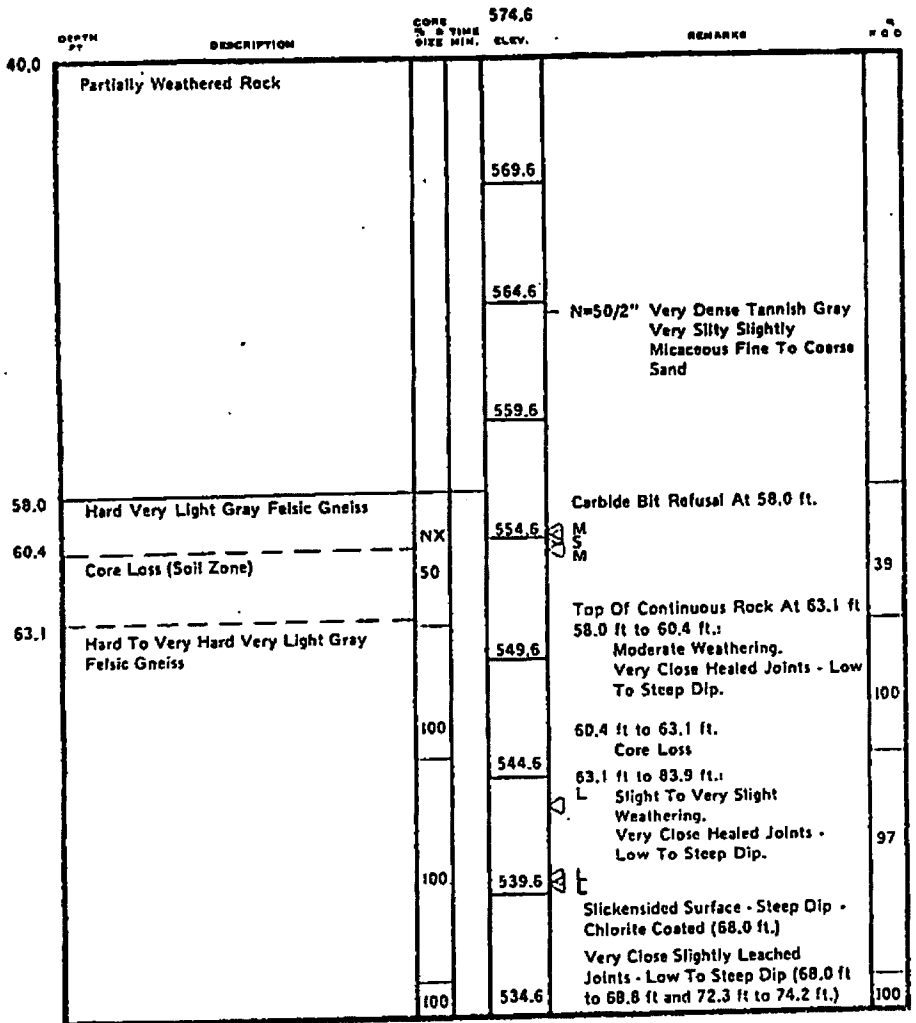
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-156P
DATE DRILLED 1-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

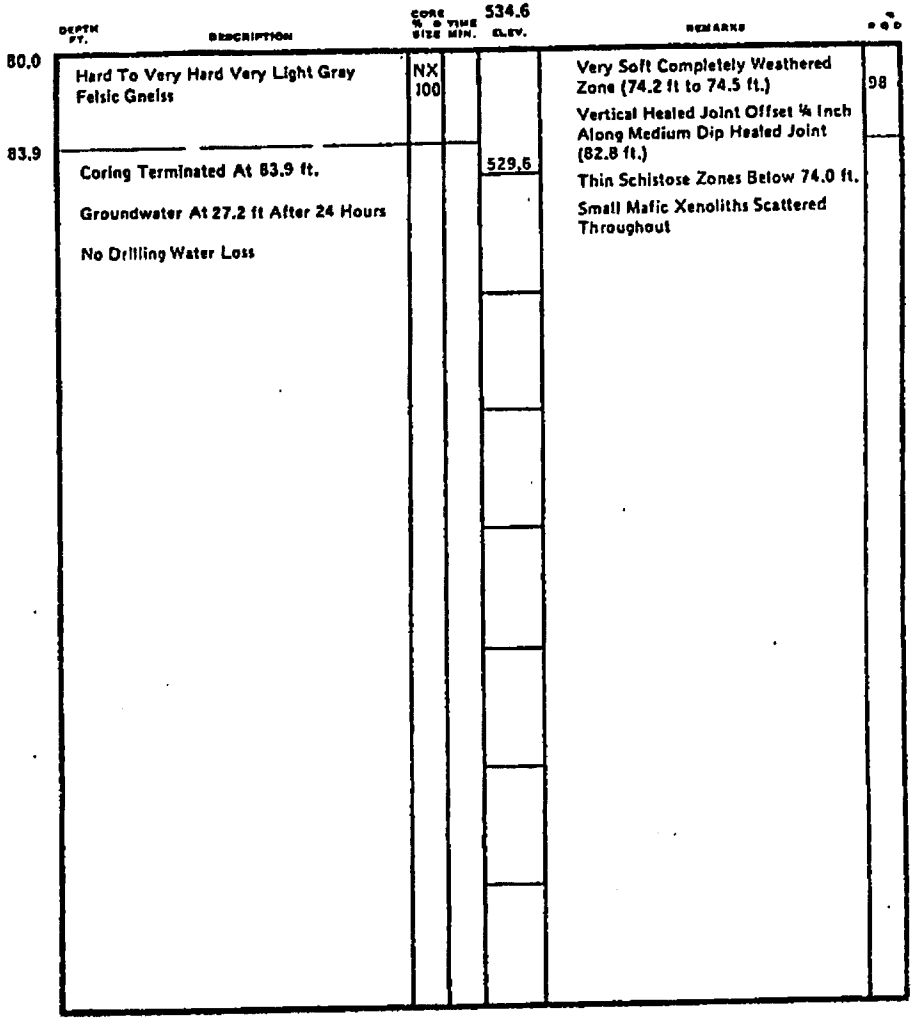
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-156P
DATE DRILLED 1-8-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

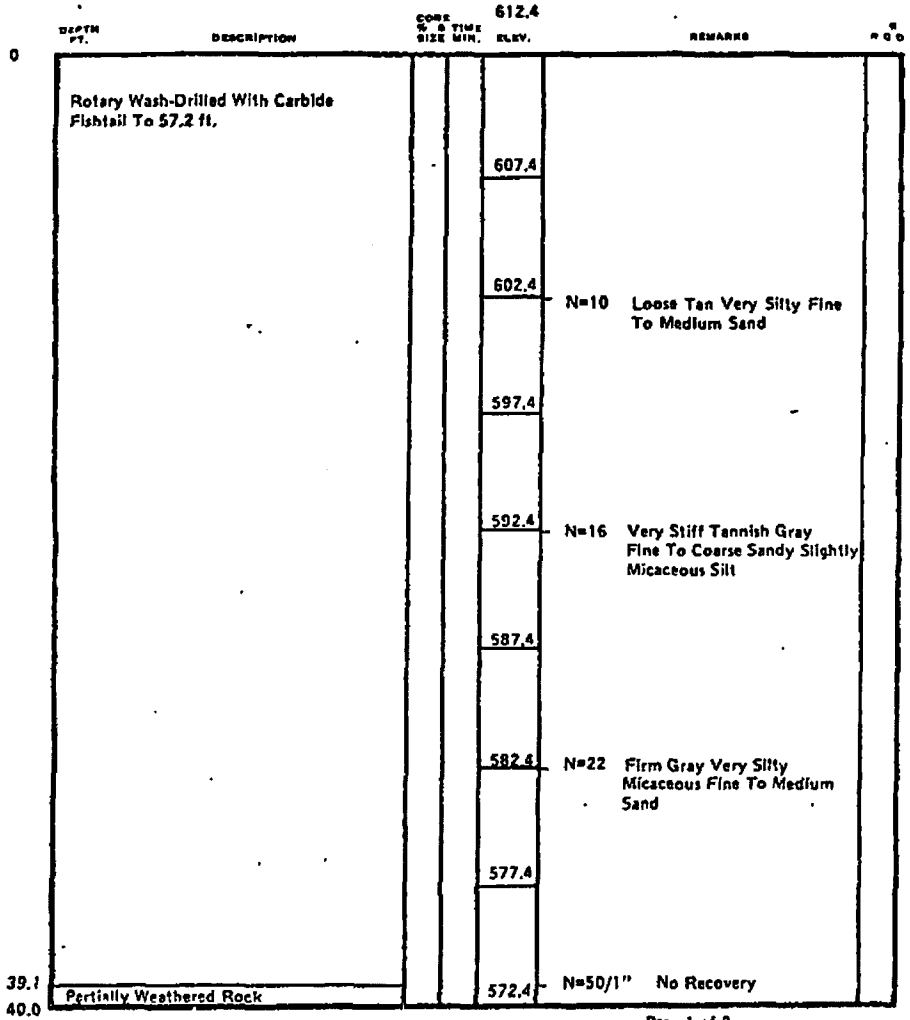
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-156P
DATE DRILLED 1-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

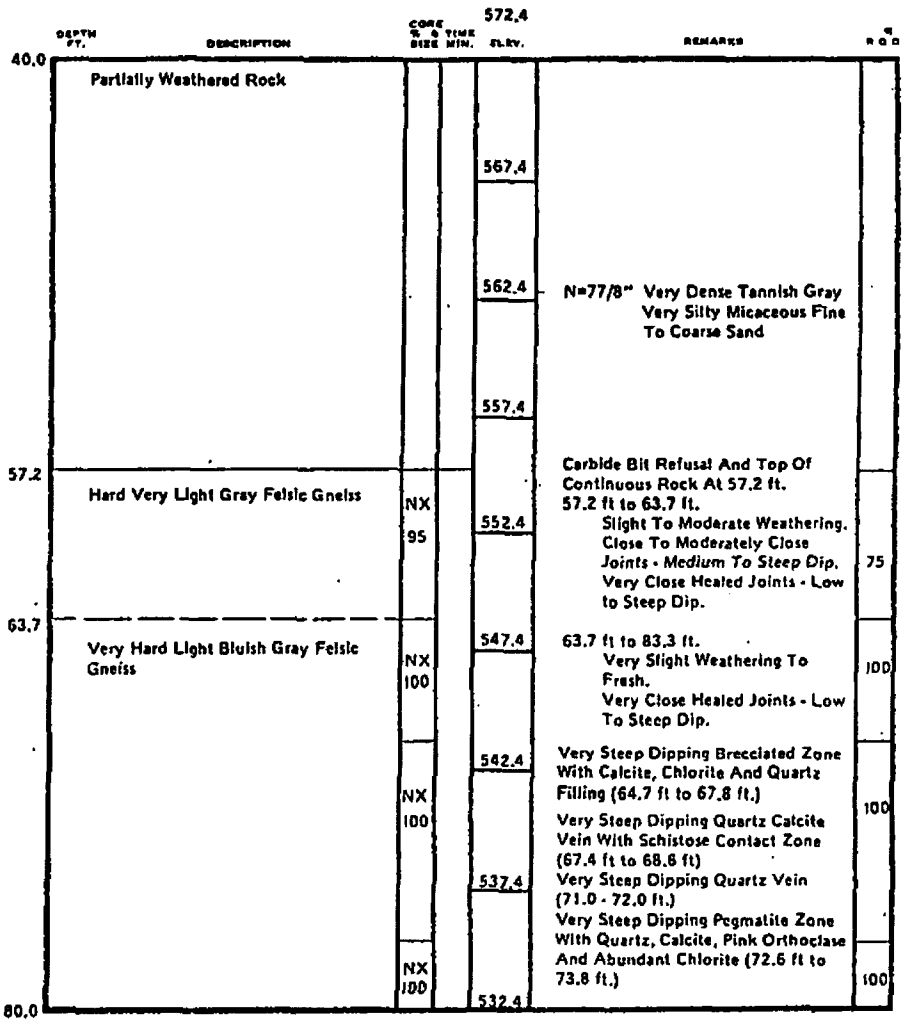
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-157P
DATE DRILLED 1-16-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

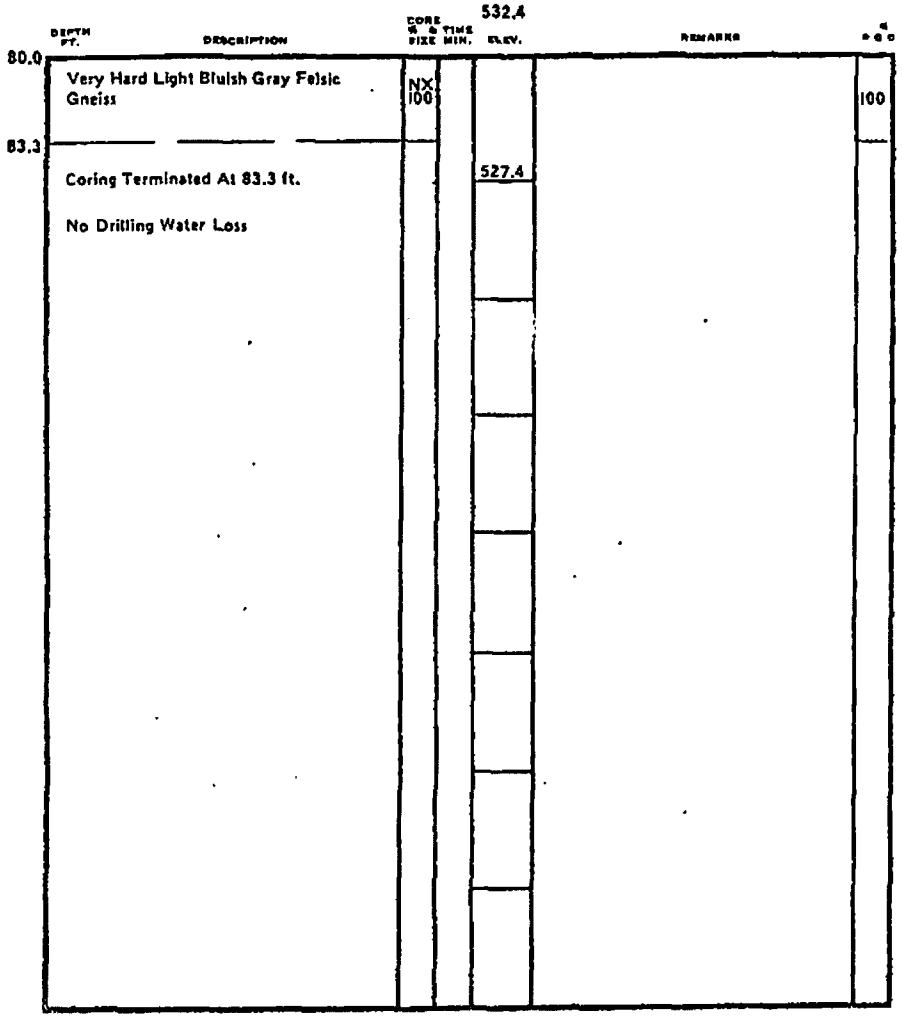
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-157P
DATE DRILLED 1-16-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

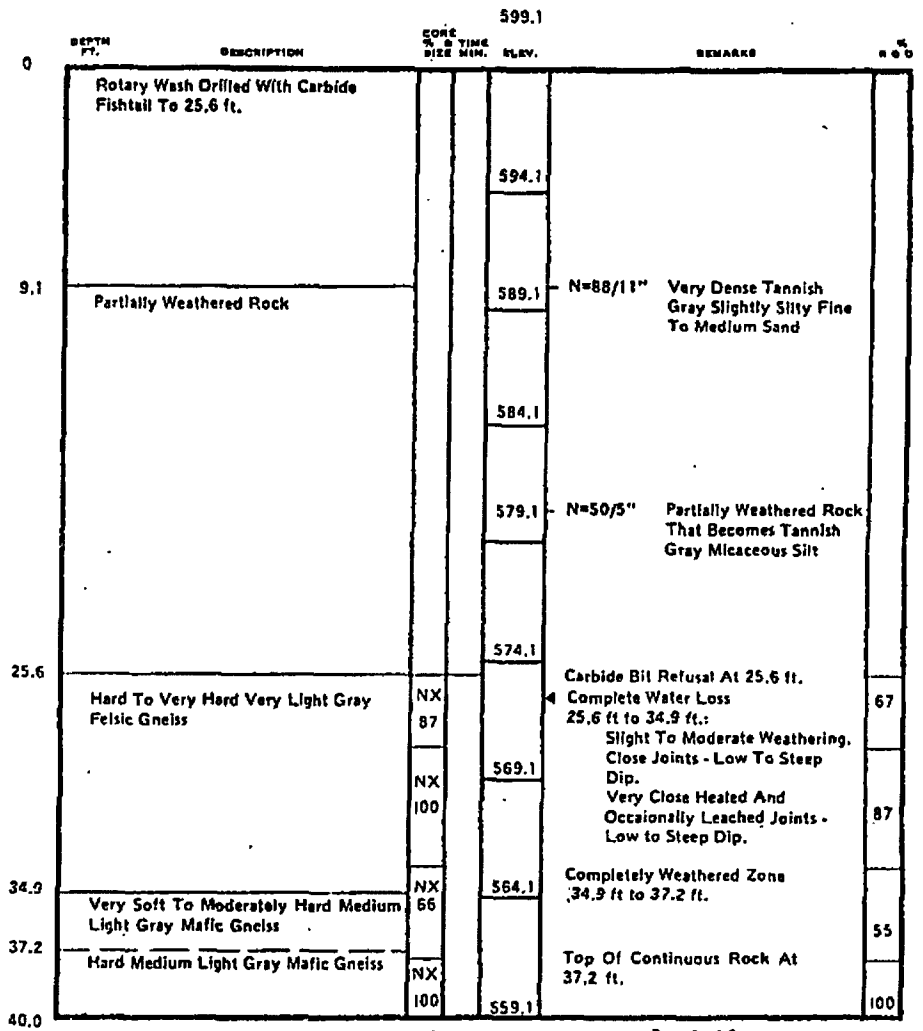
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-157P
DATE DRILLED 1-16-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

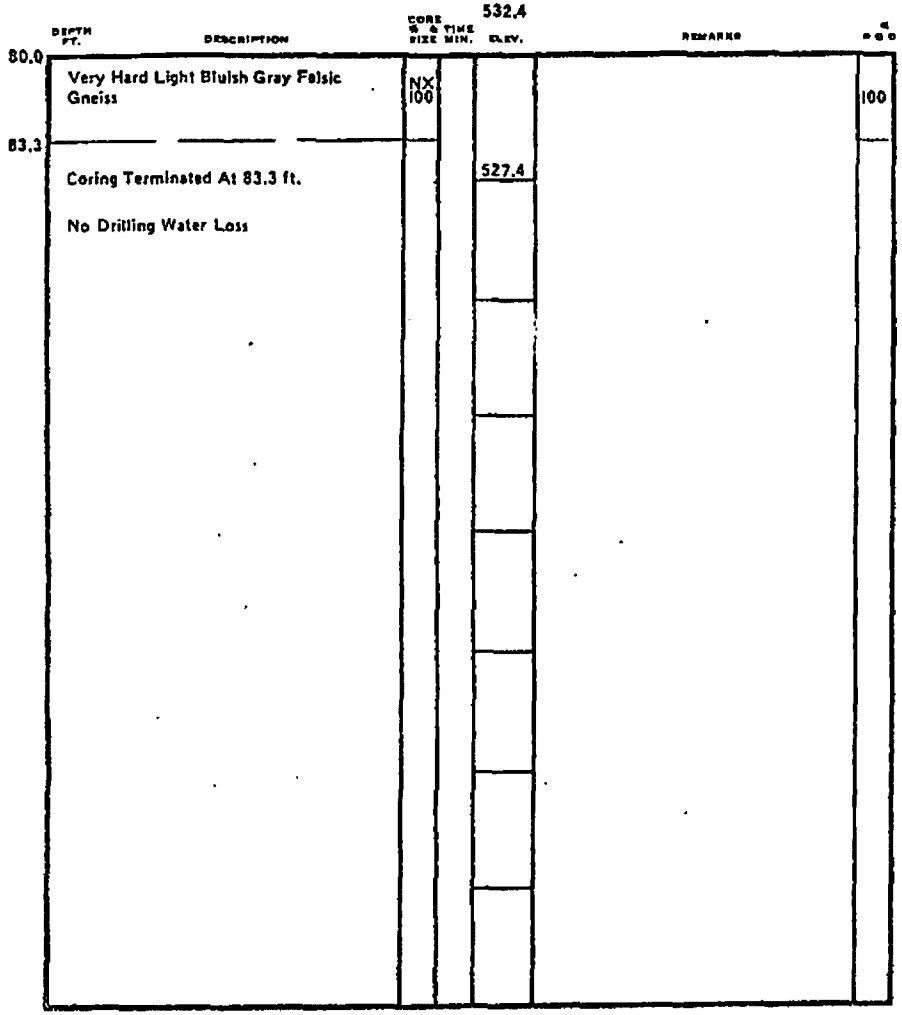
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-158P
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

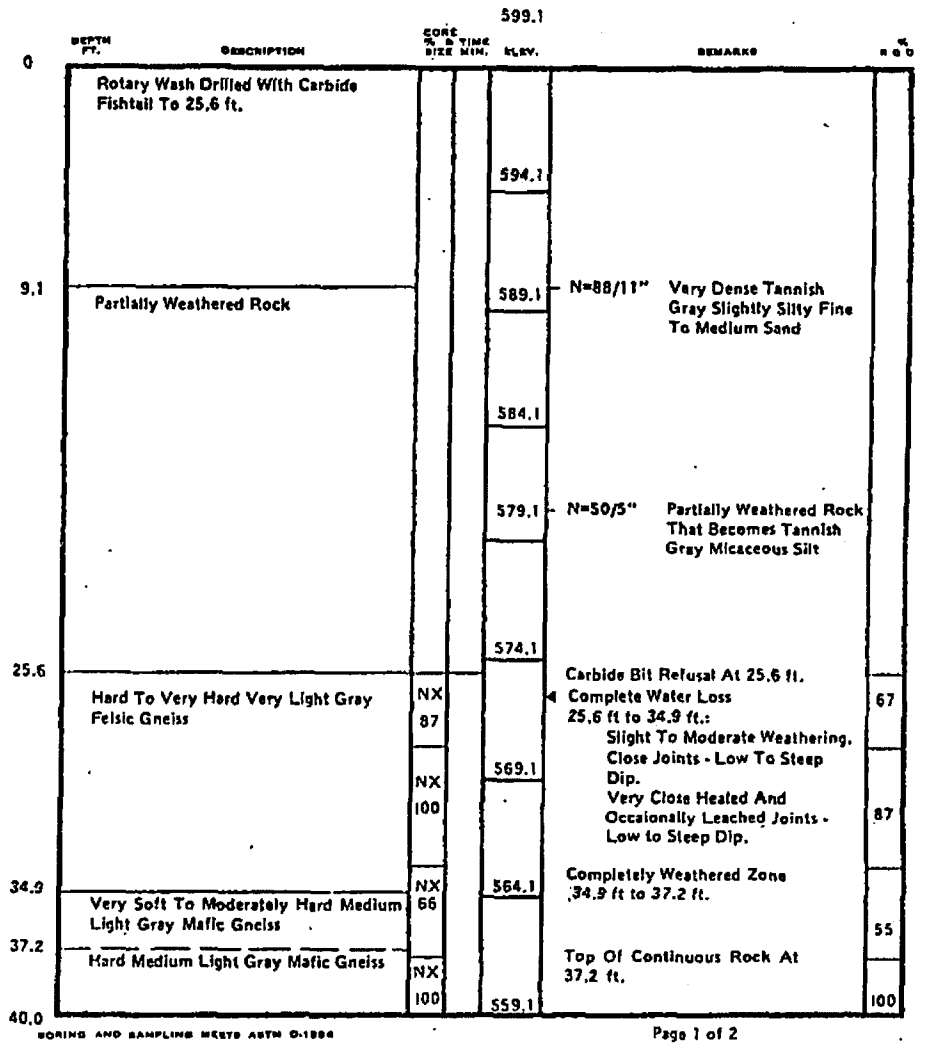
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-157P
DATE DRILLED 1-16-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

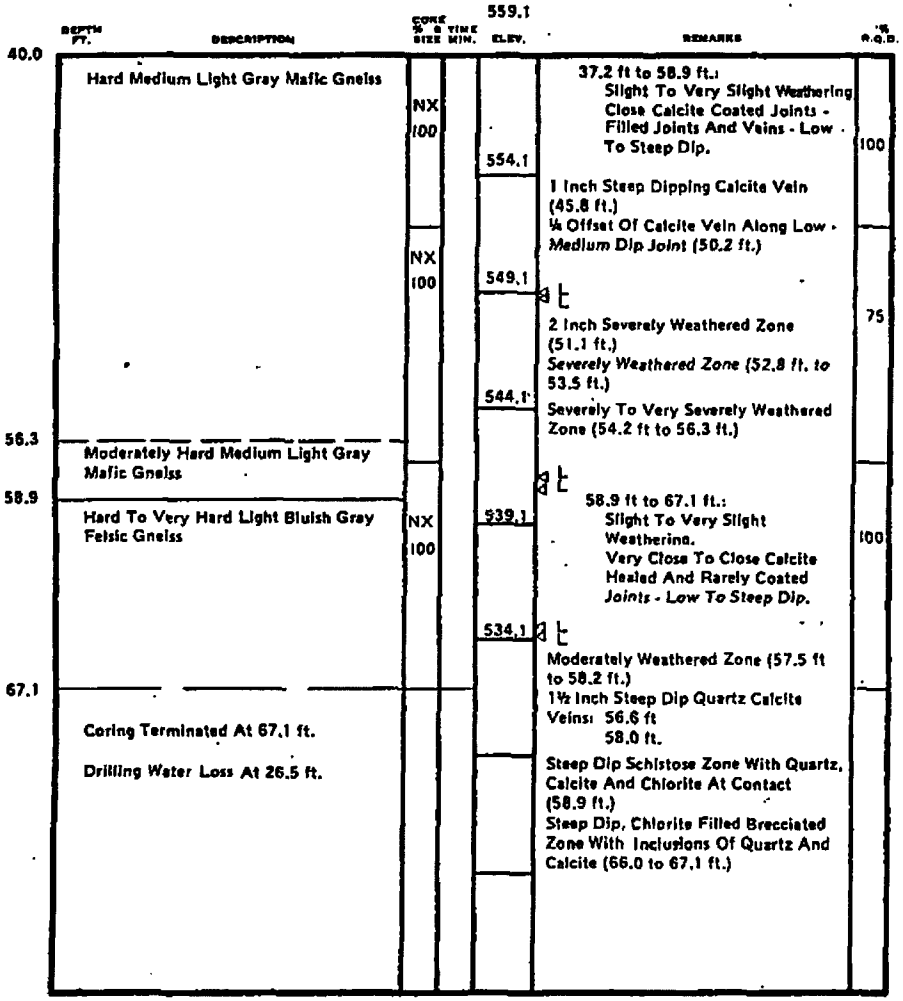
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-158P
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



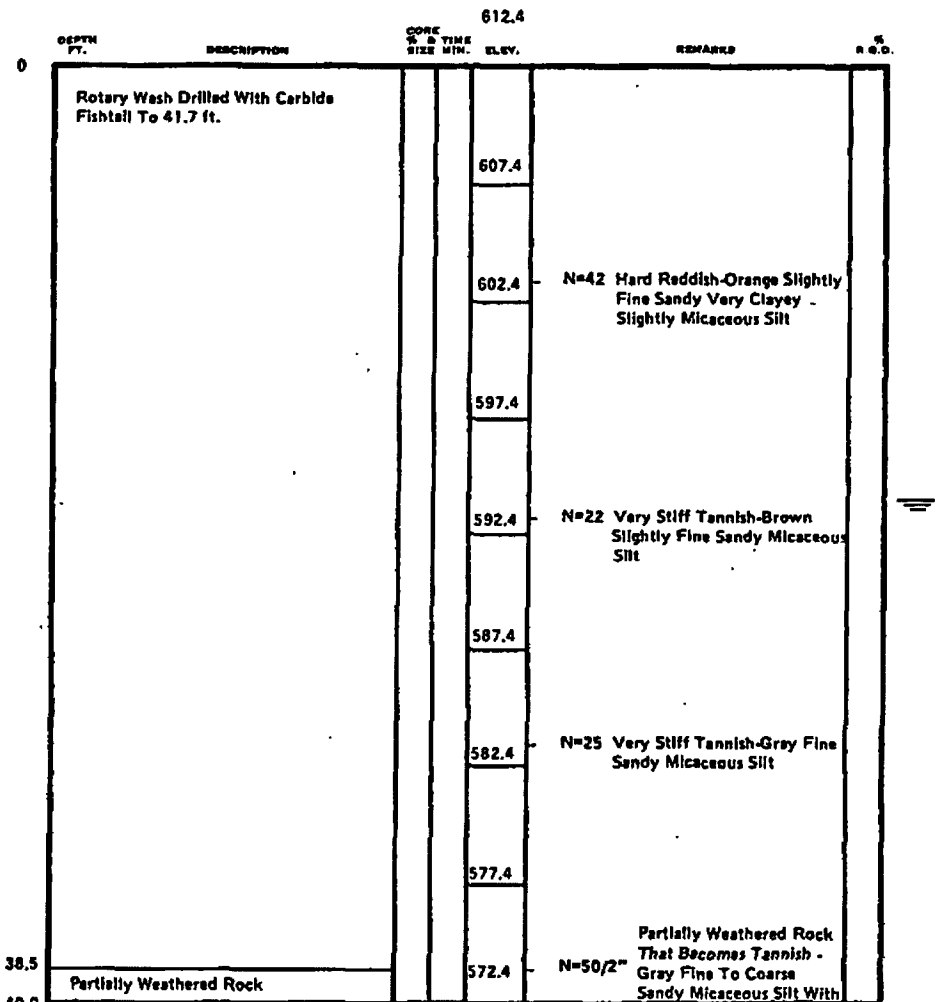
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–50° M = MED. DIP 50°–90° S = STEEP DIP 90°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-158P
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



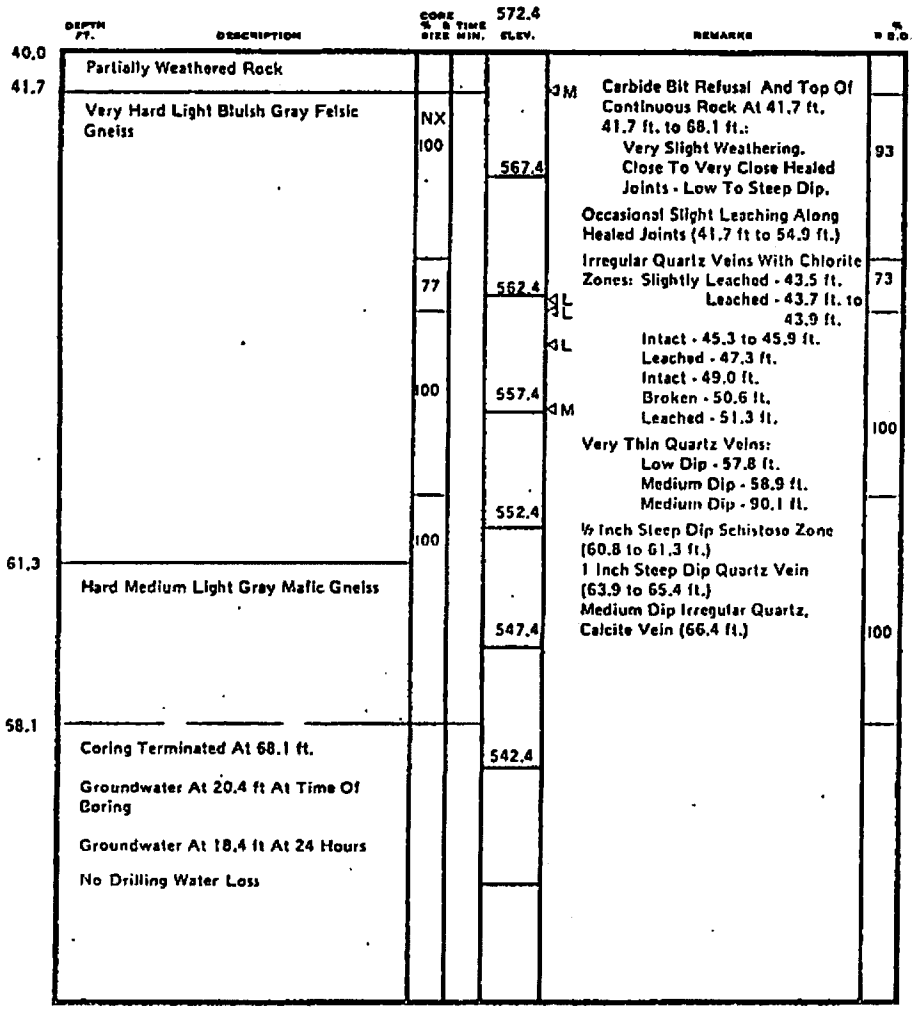
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–50° M = MED. DIP 50°–90° S = STEEP DIP 90°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-159P
DATE DRILLED 12-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

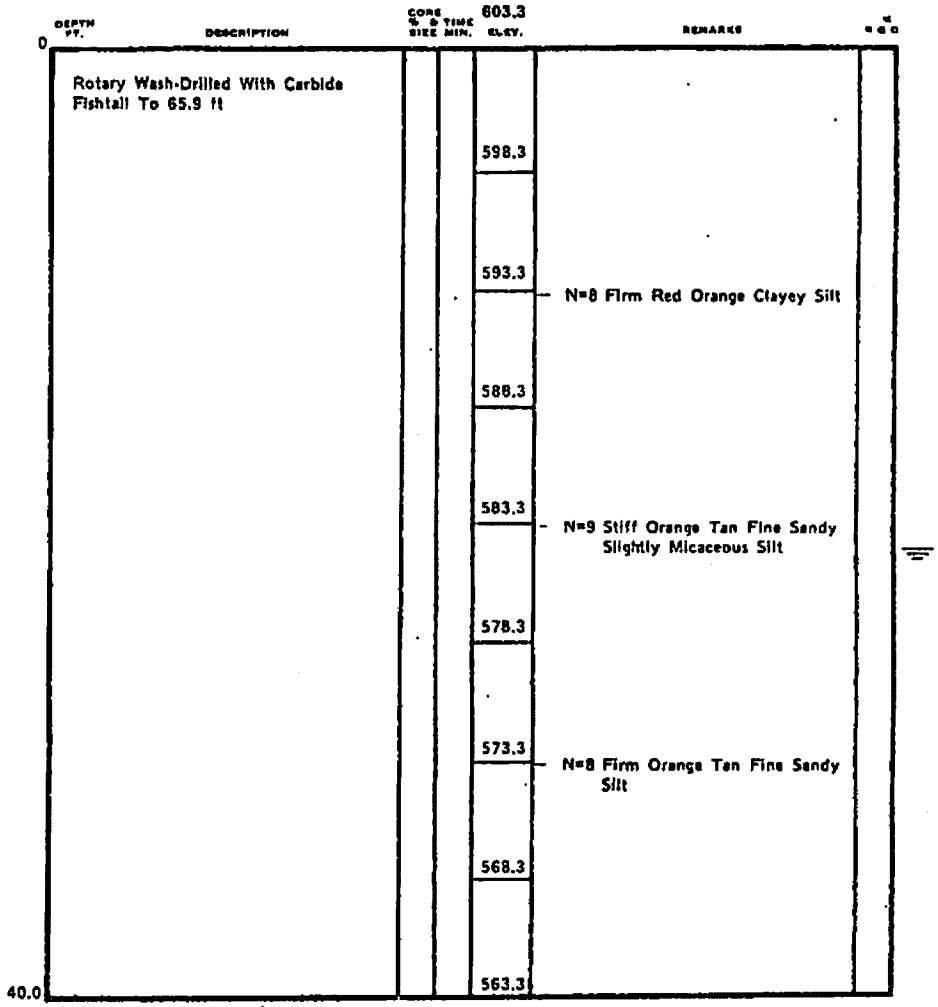
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-159P
DATE DRILLED 12-12-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

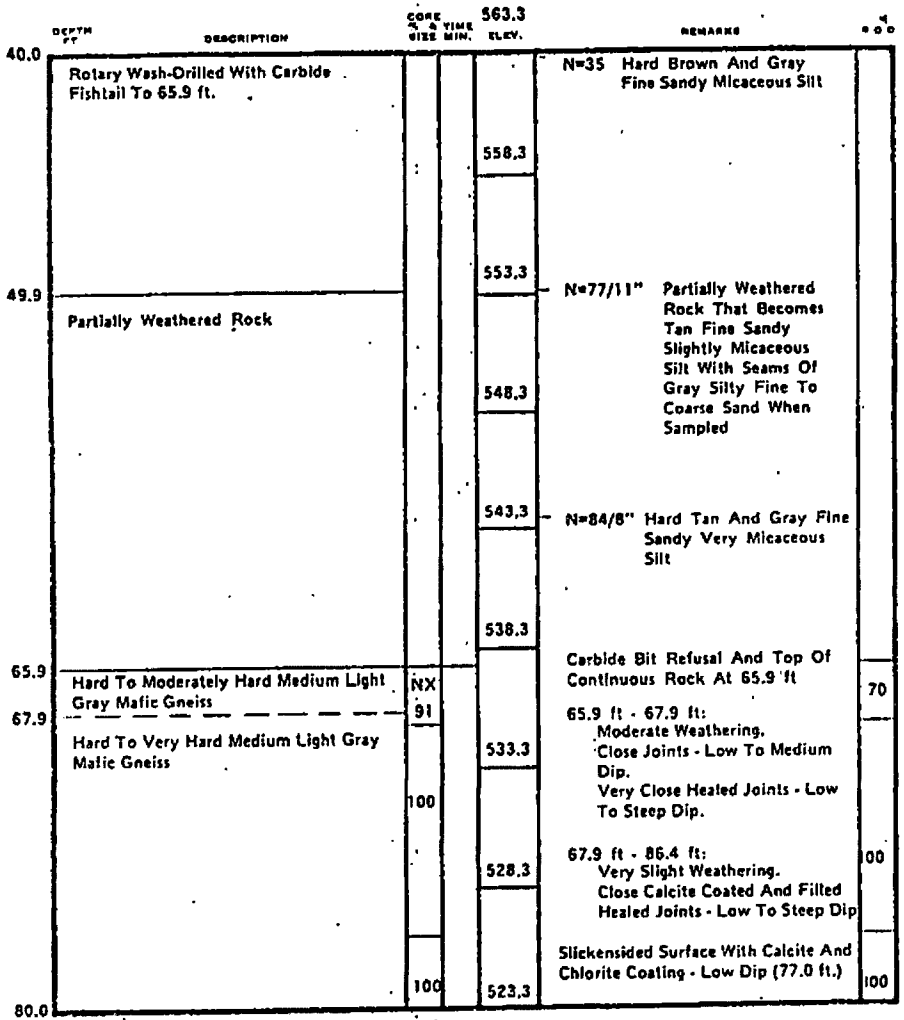
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-160P
DATE DRILLED 1-7-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

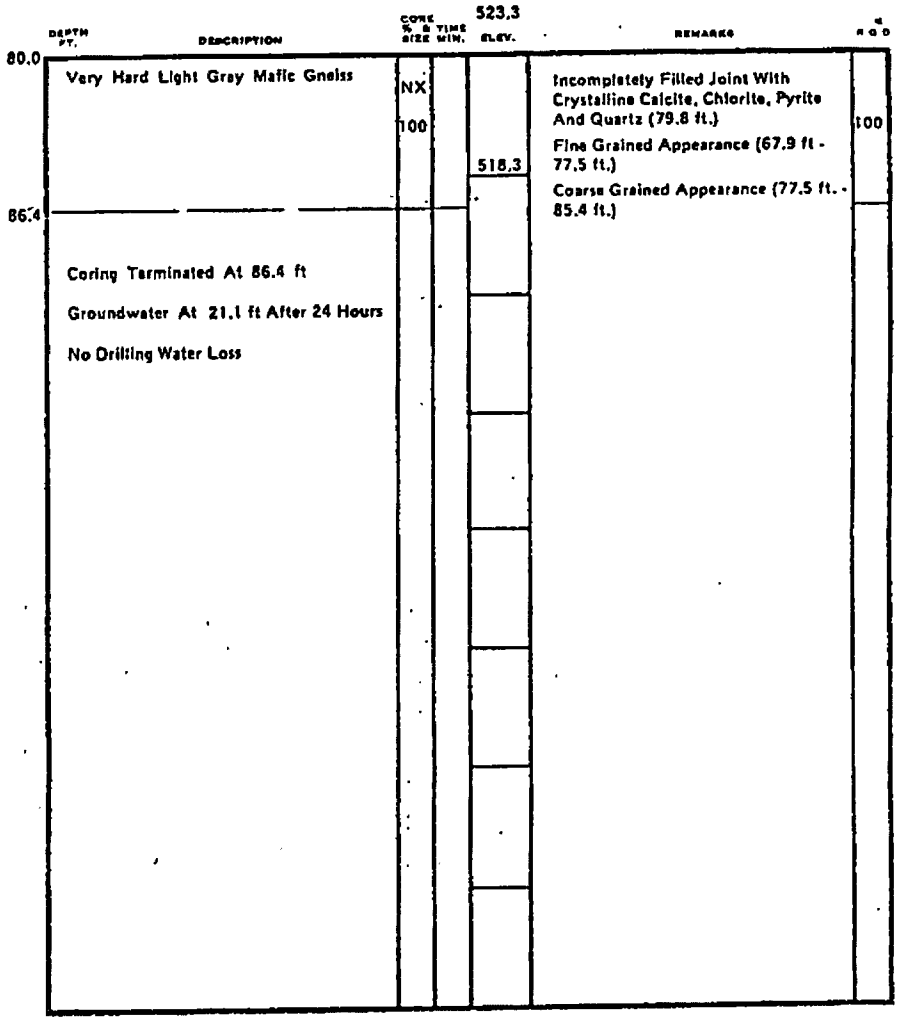
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-160P
DATE DRILLED 1-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

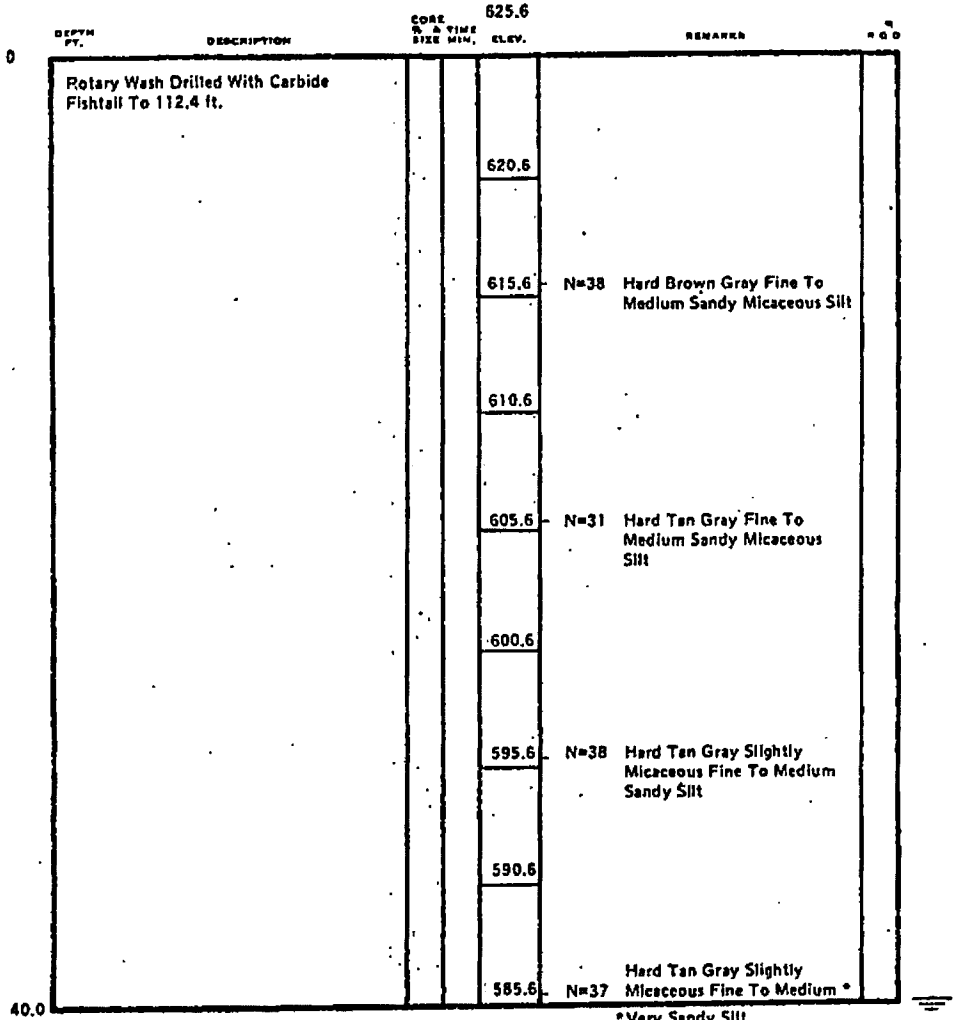
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-160P
DATE DRILLED 1-7-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

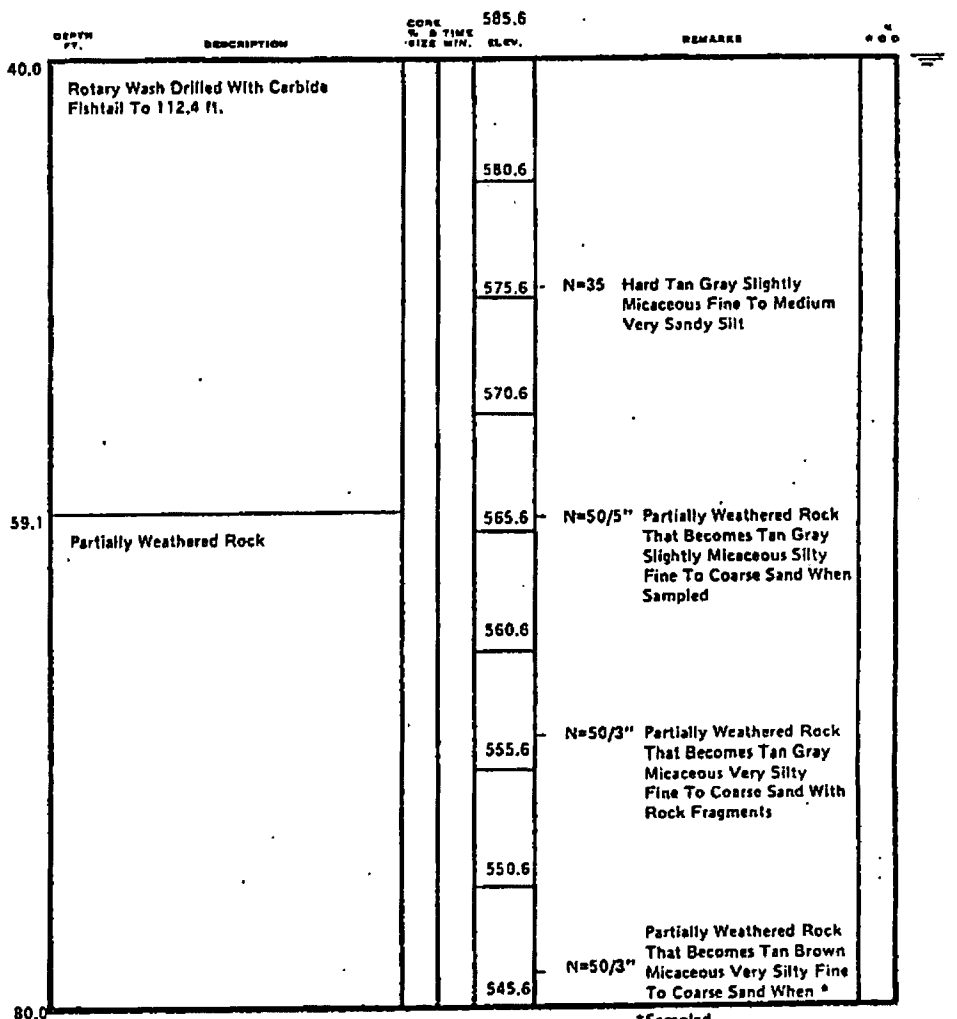
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 5

TEST BORING RECORD

BORING NO. B-161P
DATE DRILLED 1-17-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

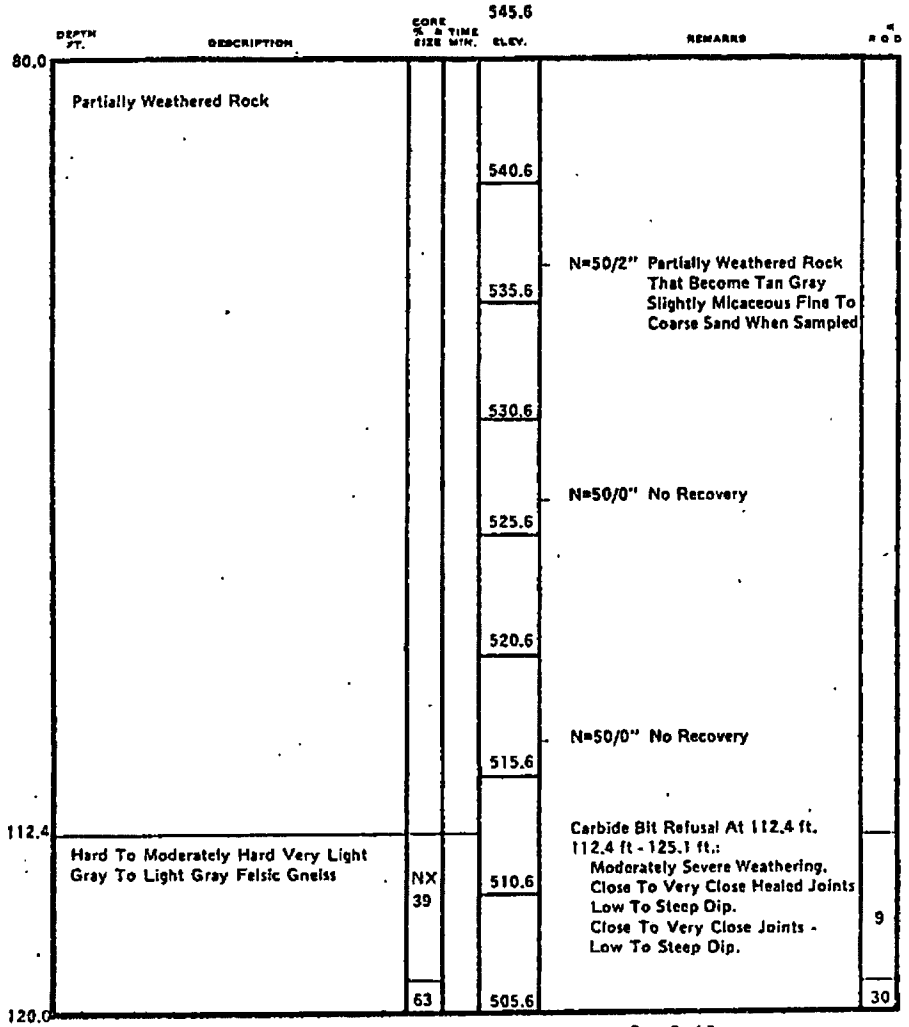
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 5

TEST BORING RECORD

BORING NO. B-161P
DATE DRILLED 1-17-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

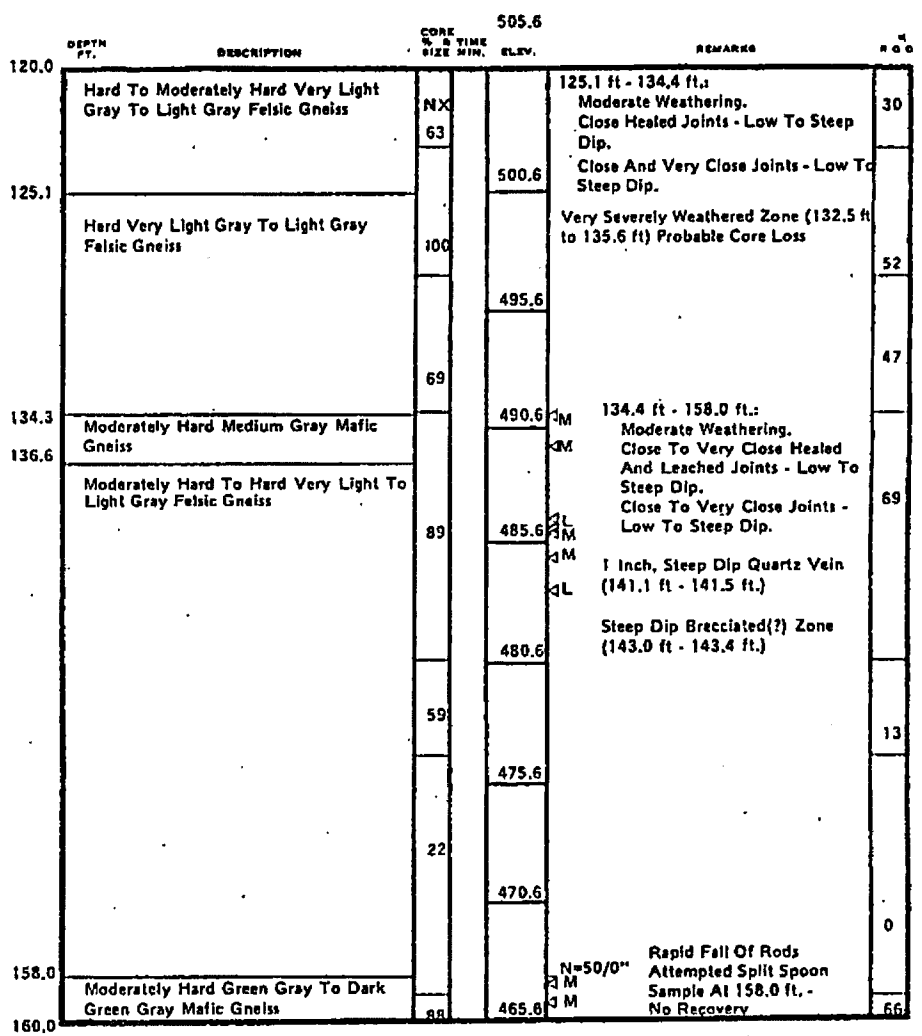


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-161P
DATE DRILLED 1-17-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

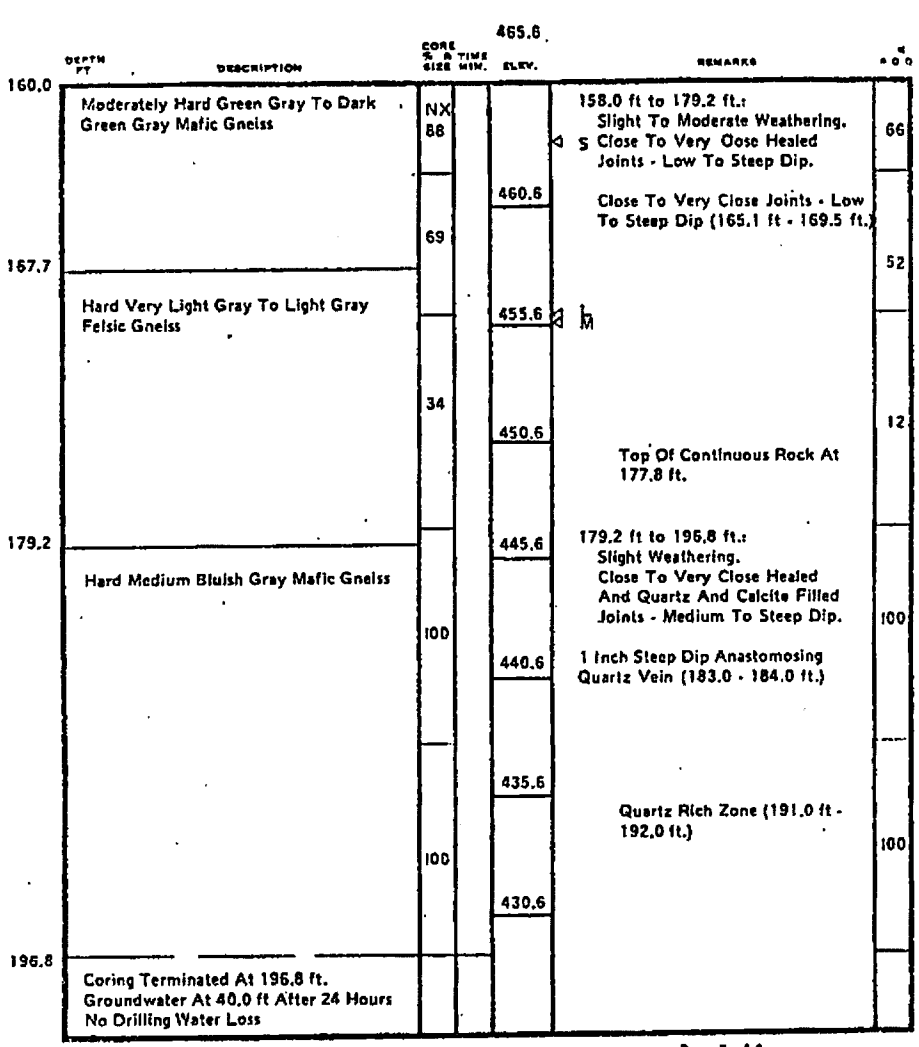


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-161P
DATE DRILLED 1-17-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



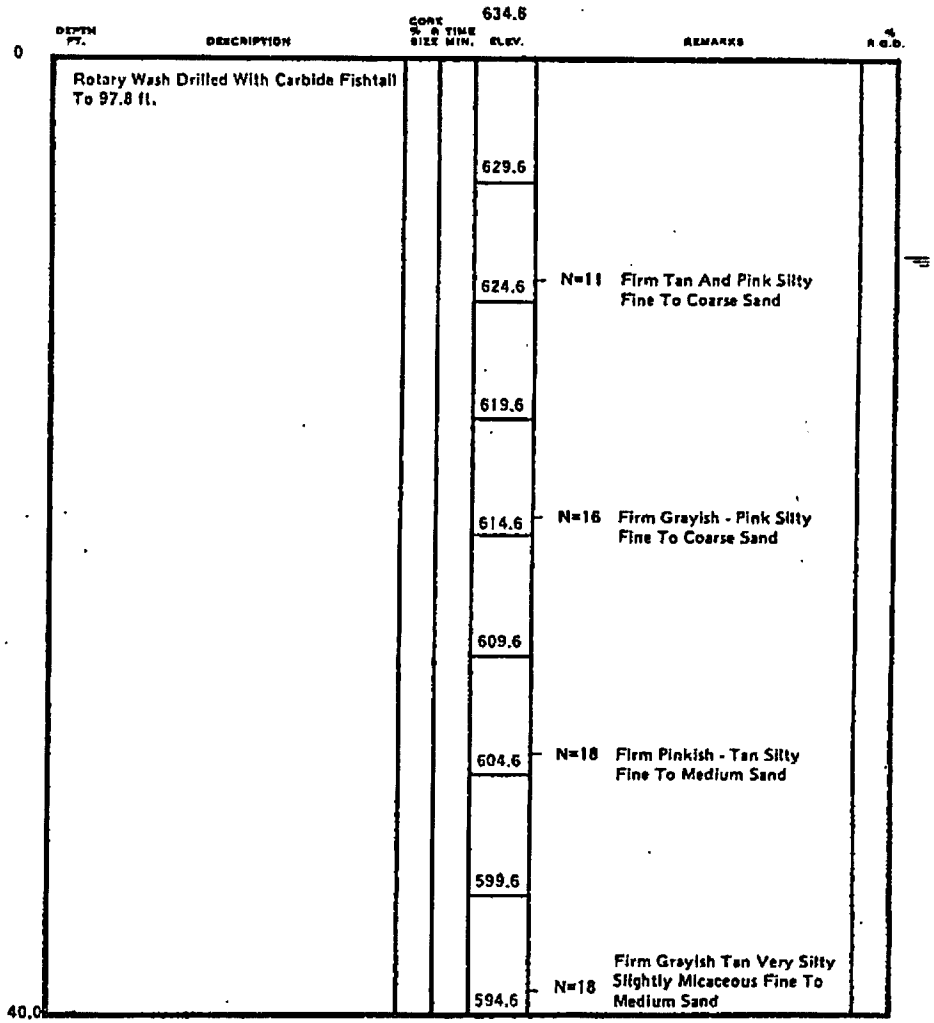
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 5 of 5

TEST BORING RECORD

BORING NO. B-161P
DATE DRILLED 1-17-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



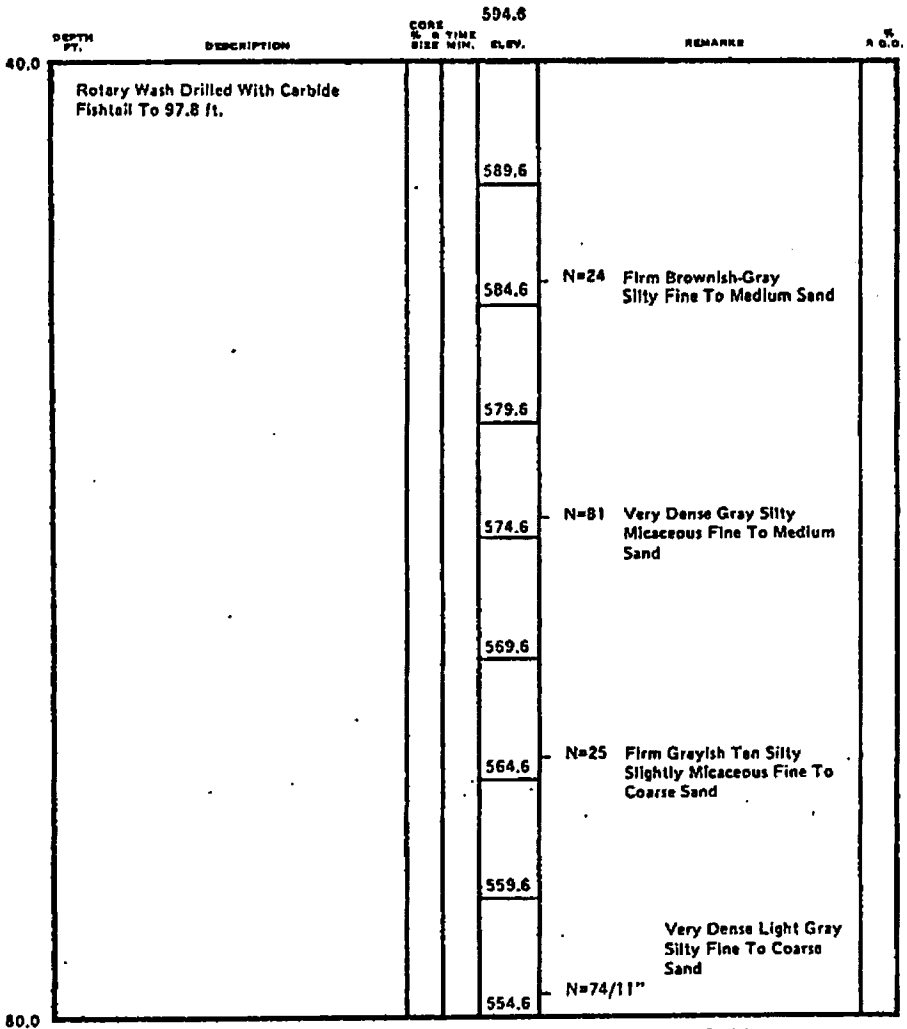
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-162P
DATE DRILLED 1-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

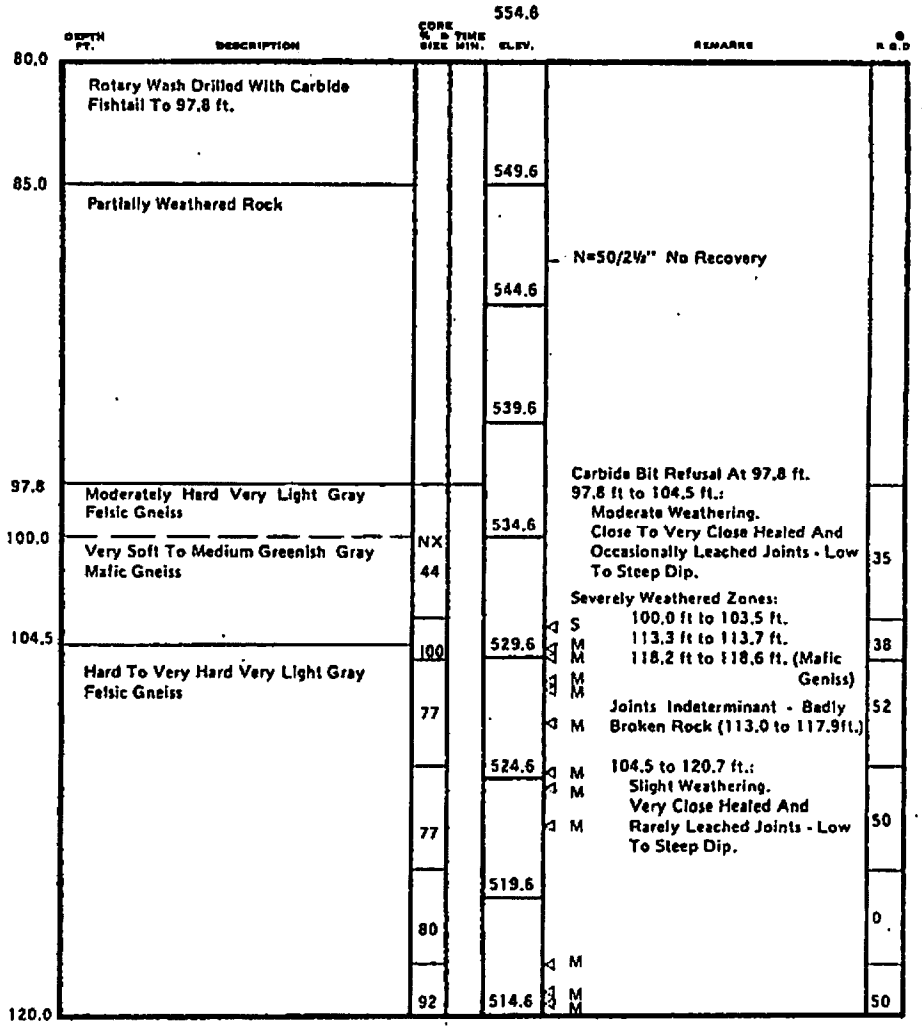
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[56]% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-162P
DATE DRILLED 1-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

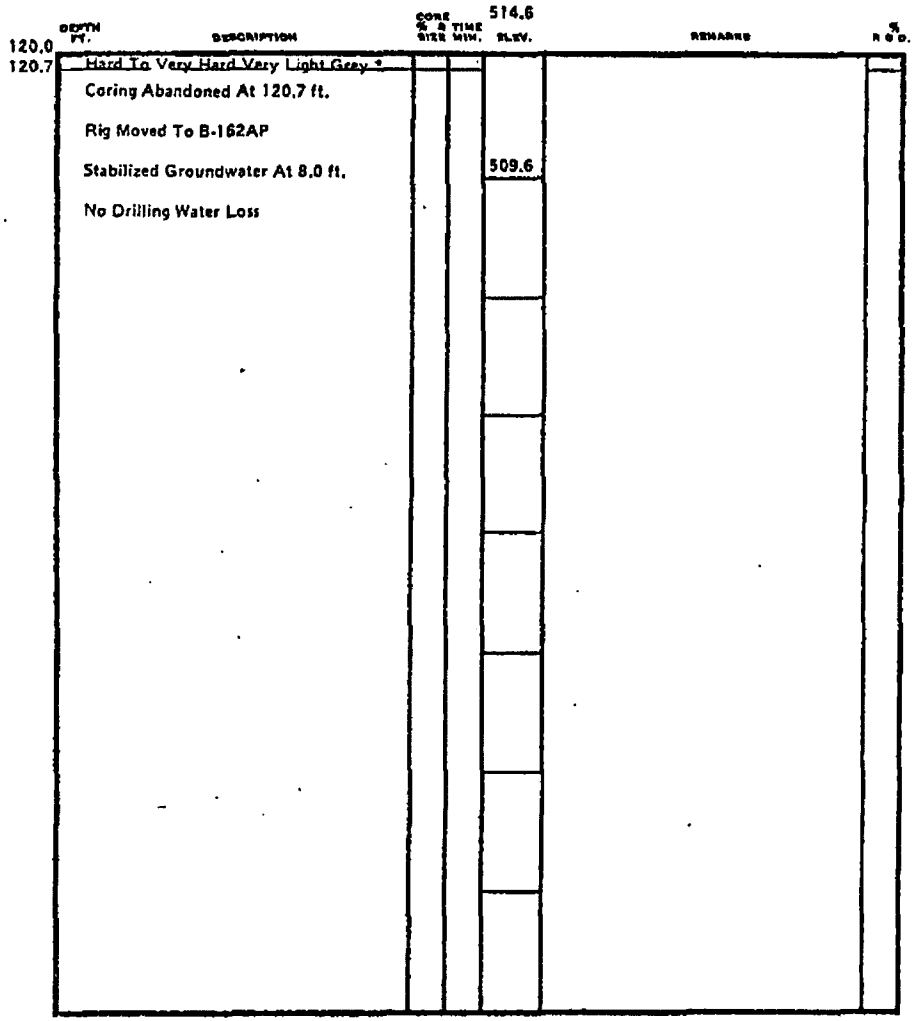
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
[32]% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-162P
DATE DRILLED 1-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

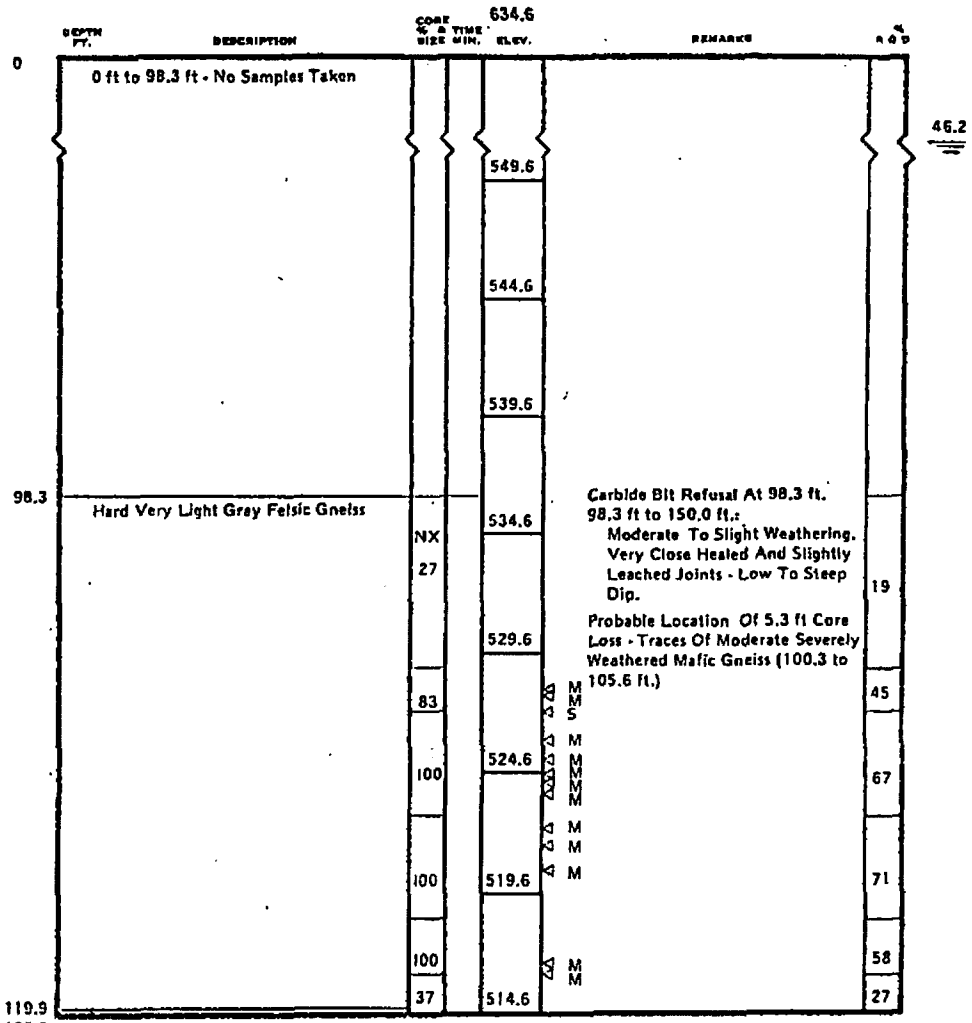
* Felsic Gneiss

Page 4 of 4

TEST BORING RECORD

BORING NO. B-162P
DATE DRILLED 1-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

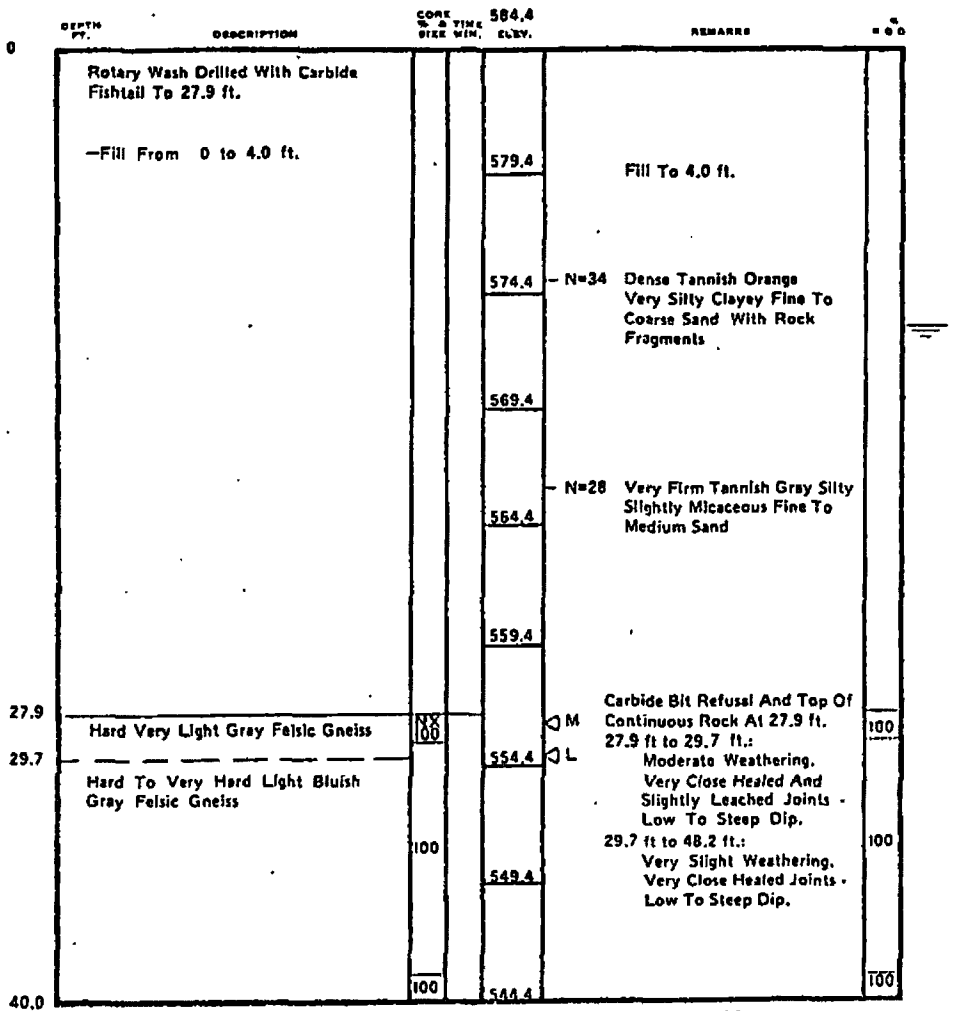
*Moderately Hard Gray Green Mafic Gneiss

Page 1 of 3

TEST BORING RECORD

BORING NO: B-162AP
DATE DRILLED 2-19-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

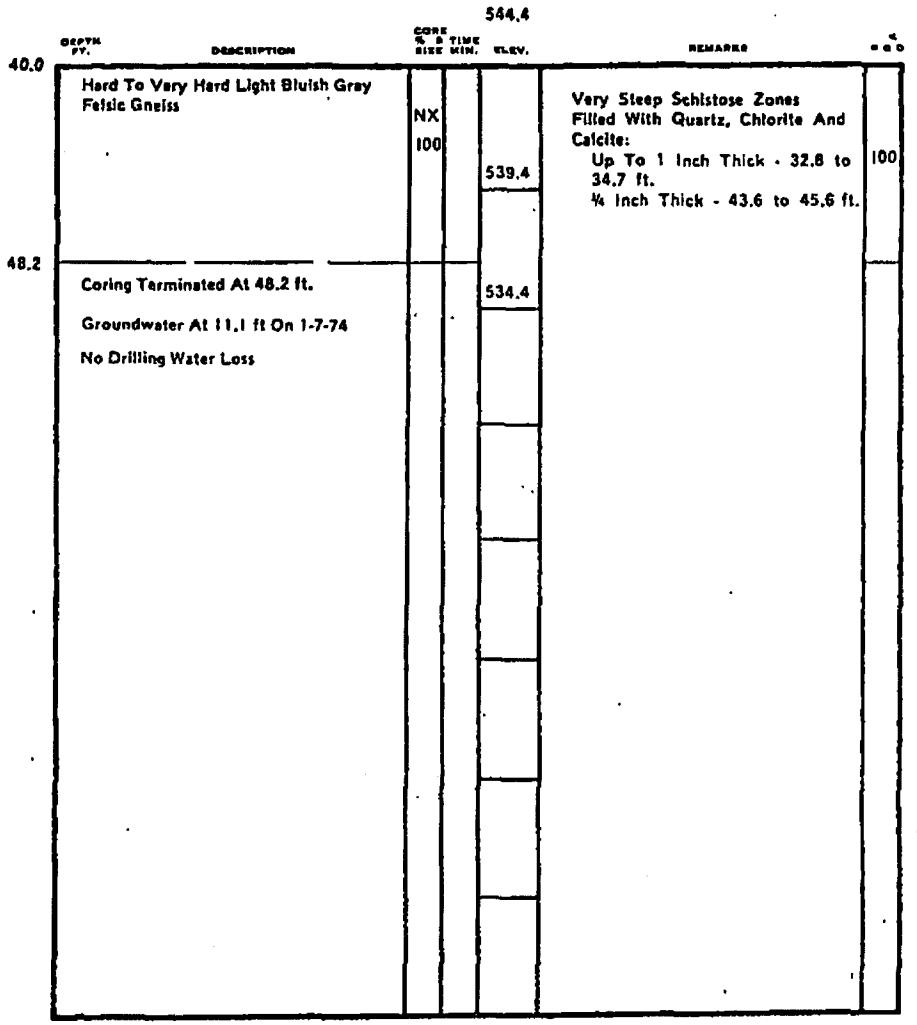
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-163P
DATE DRILLED 1-4-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

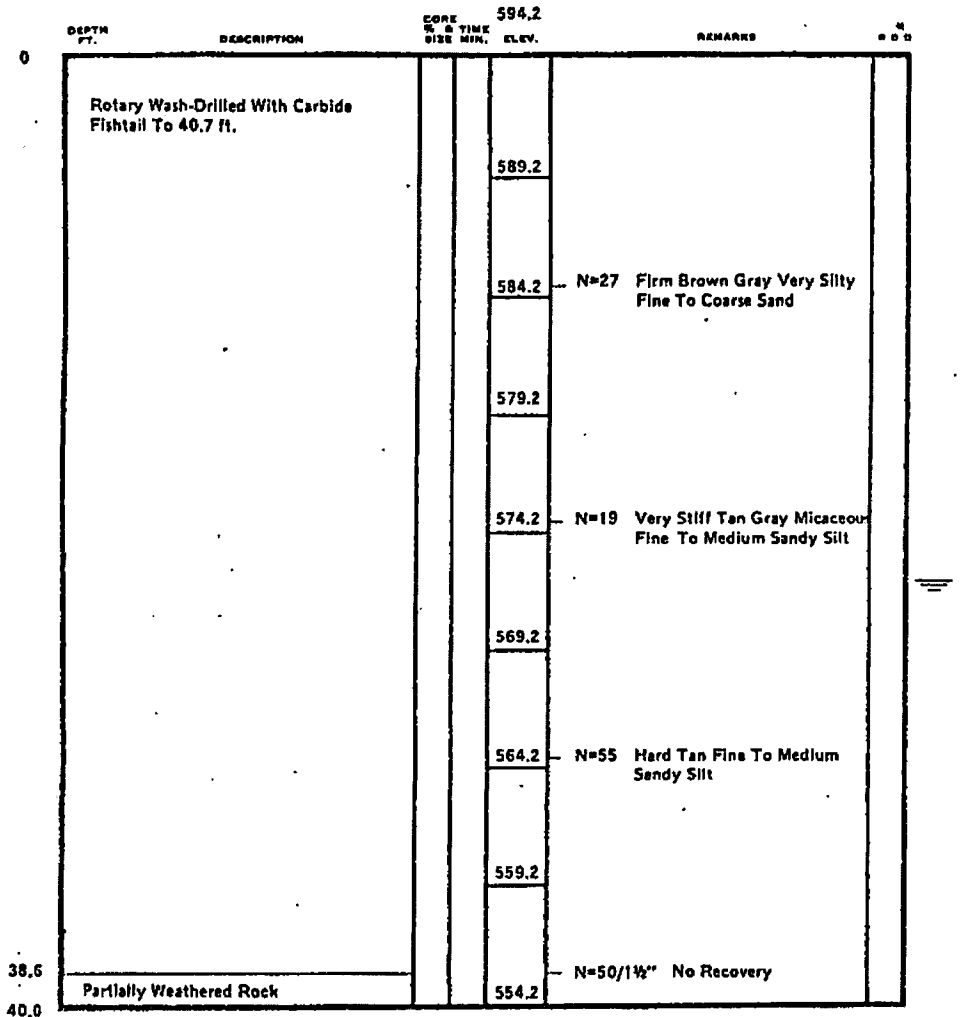
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-163P
DATE DRILLED 1-4-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



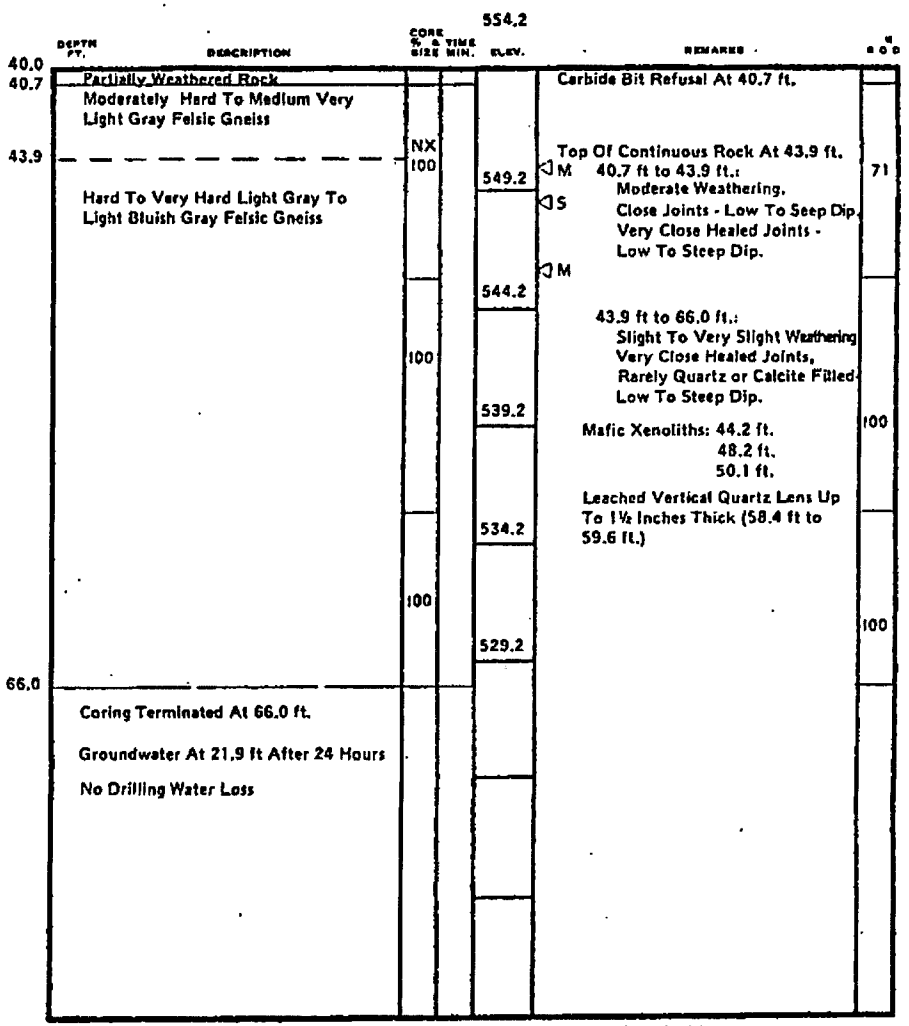
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–35° M = MED. DIP 35°–60° S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-164P
DATE DRILLED 1-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



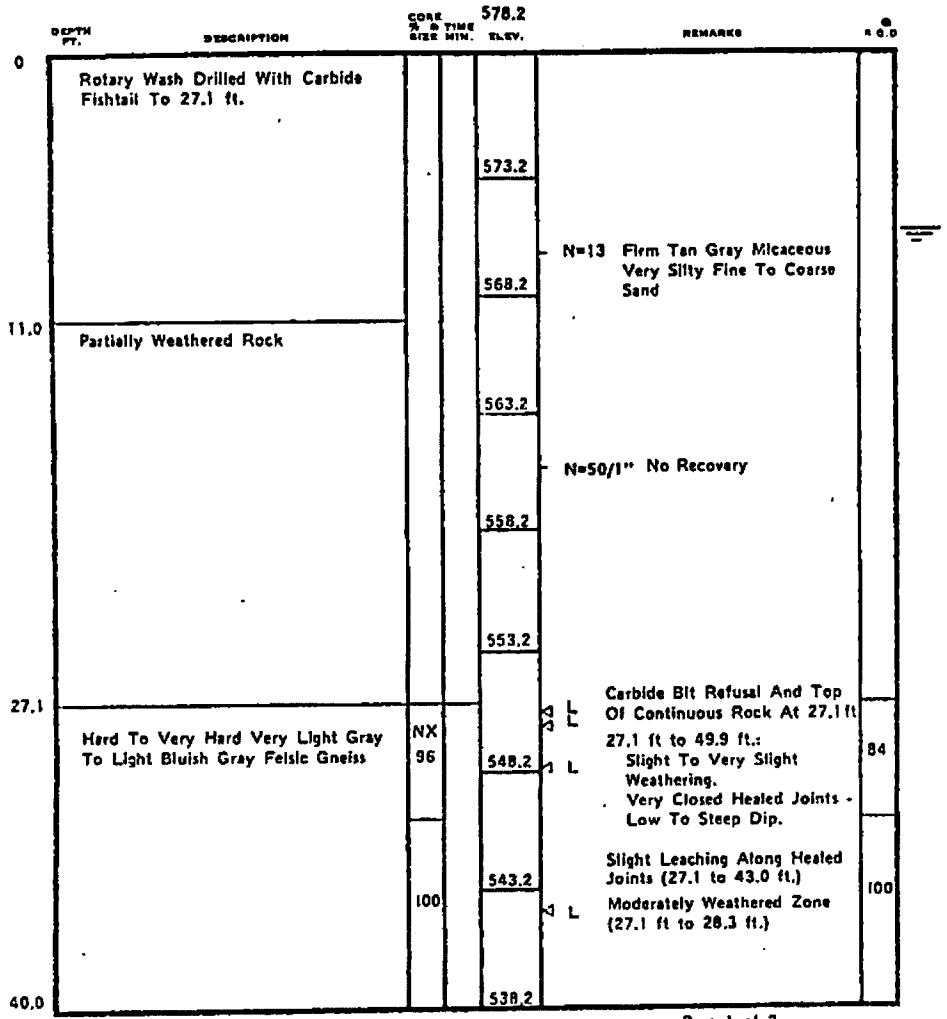
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–35° M = MED. DIP 35°–60° S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-164P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

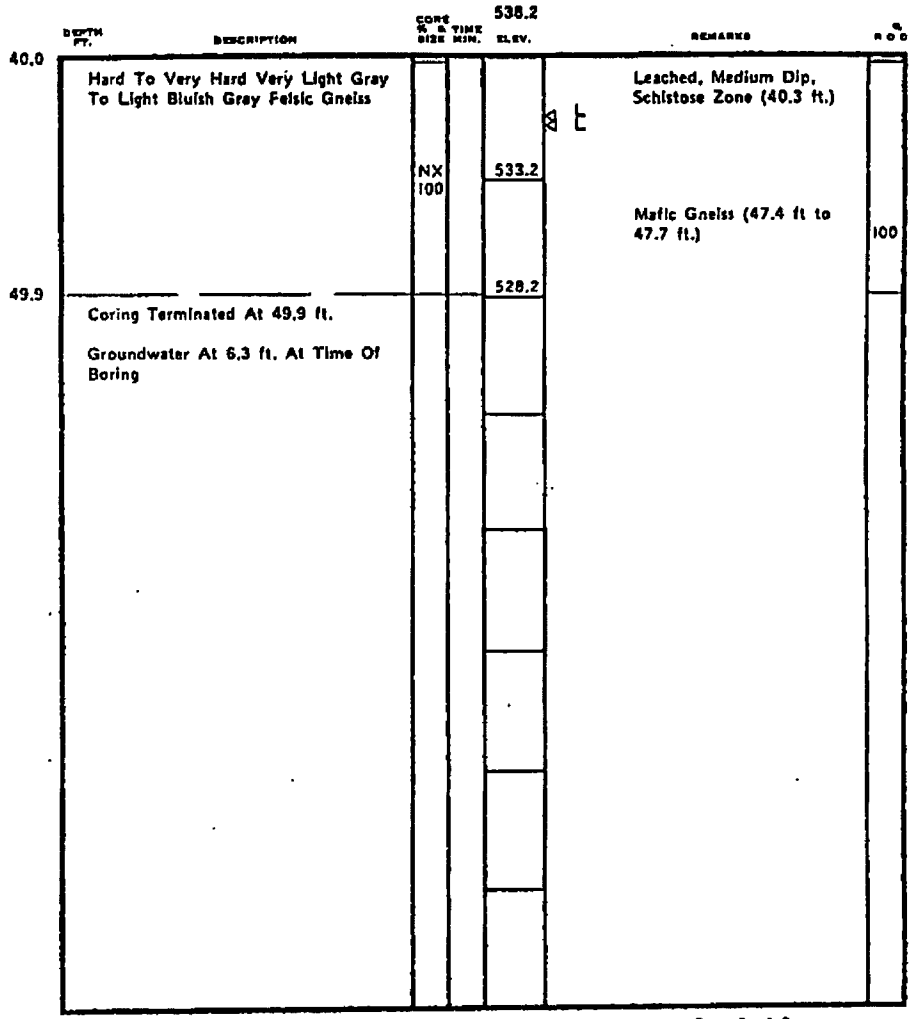


Page 1 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1": ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-165P
DATE DRILLED 4-19-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

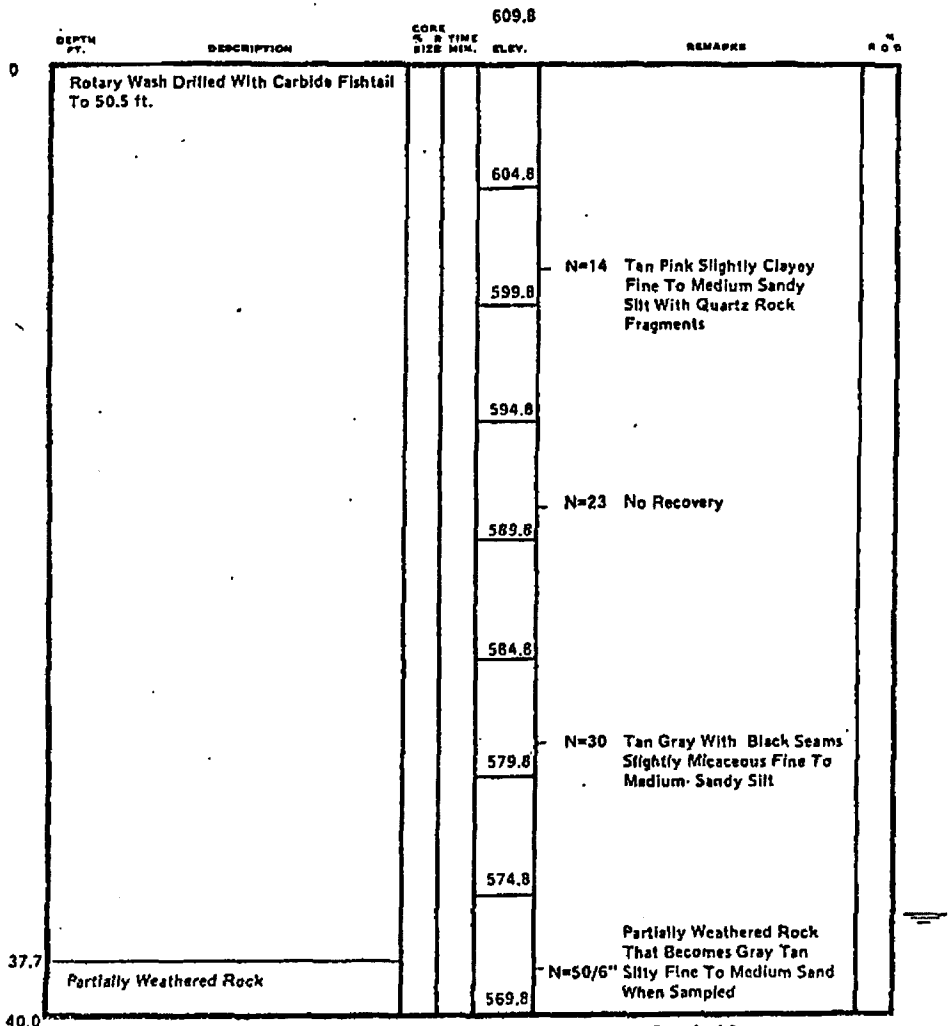


Page 2 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1": ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-165P
DATE DRILLED 4-19-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

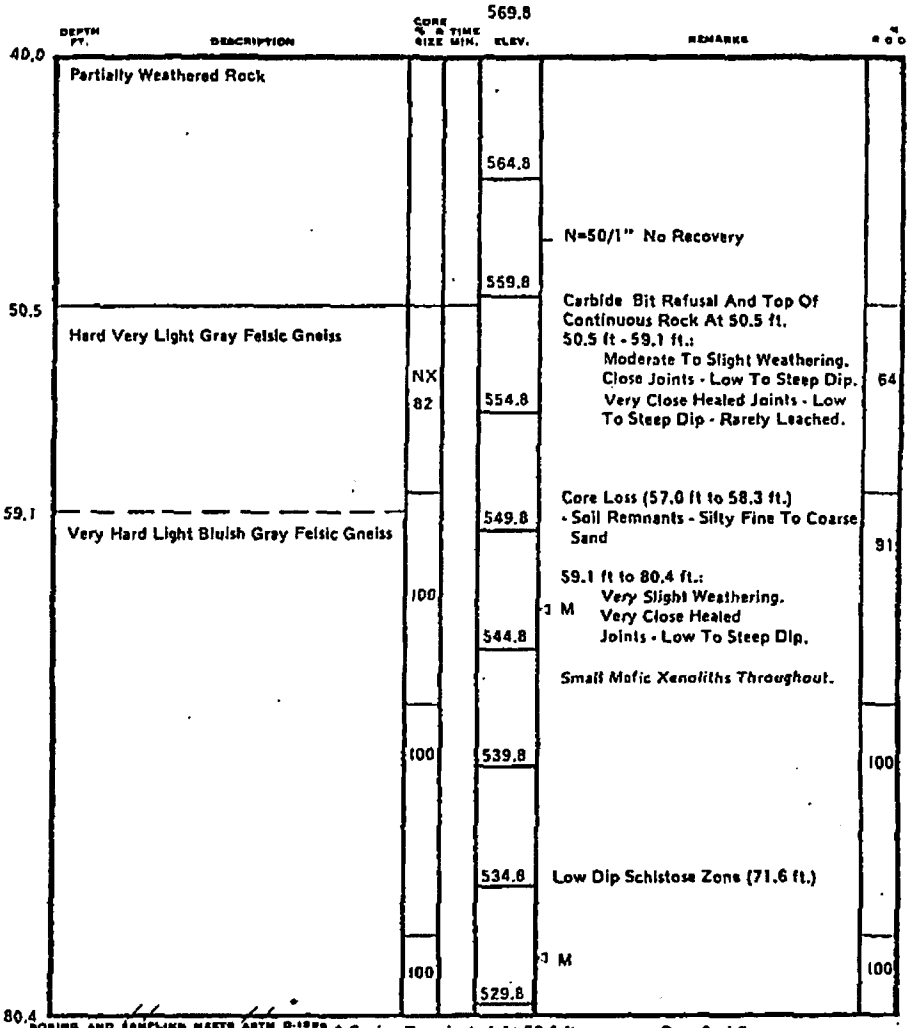
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–35°
M = MED. DIP 35°–65°
S = STEEP DIP 65°–90°

TEST BORING RECORD

BORING NO. B-166P
DATE DRILLED 1-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–35°
M = MED. DIP 35°–65°
S = STEEP DIP 65°–90°

* Coring Terminated At 80.4 ft.
Groundwater At 36.0 ft At 24 Hours
No Drilling Water Loss

TEST BORING RECORD

BORING NO. B-166-P
DATE DRILLED 1-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

606.6

DEPTH FT.	DESCRIPTION	CORE SIZE	% R Q D	TIME MIN.	ELEV.	REMARKS
0	Rotary Wash Drilled With Carbide Fishtail To 78.5 ft.				601.6	
					596.6	N=22 Firm Brownish Pink Slightly Micaceous Very Silty Fine To Medium Sand
					591.6	
					586.6	N=23 Very Stiff Orange And Gray Slightly Micaceous Fine To Medium Sandy Silt
					581.6	
					576.6	N=19 Firm Tan And Tannish Pink Slightly Micaceous Very Silty Fine To Medium Sand
					571.6	
40.0					566.6	N=18 Firm Grayish Tan Slightly Micaceous Very Silty Fine To Medium Sand

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-167P
DATE DRILLED 1-23-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

566.6

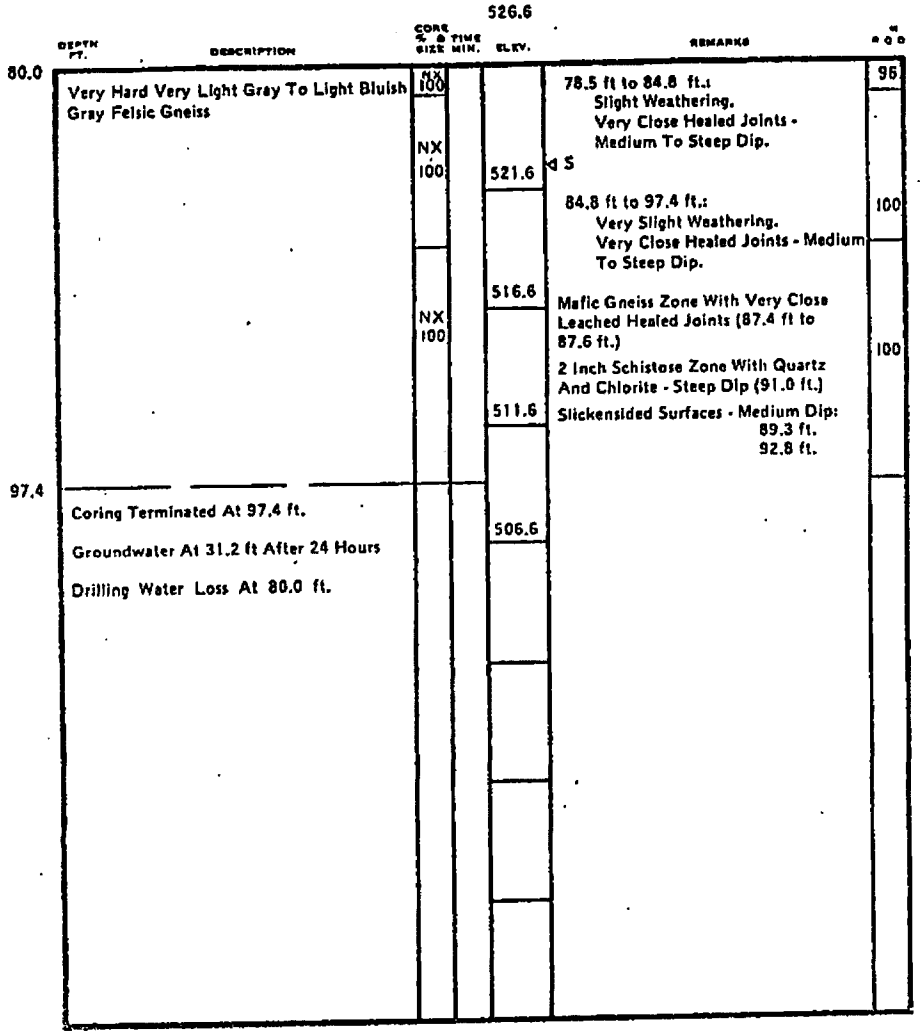
DEPTH FT.	DESCRIPTION	CORE SIZE	% R Q D	TIME MIN.	ELEV.	REMARKS
40.0	Rotary Wash Drilled With Carbide Fistail To 78.5 ft.				561.6	
					556.6	N=24 Very Stiff Tannish Gray Micaceous Slighty Fine Sandy Silt
						NW Casing To 50.0 ft.
					551.6	
58.6	Partially Weathered Rock				546.6	N=82/10" Partially Weathered Rock That Becomes Grayish Tan Slightly Micaceous Silty Fine To Coarse Sand When Sampled
					541.6	
					536.6	N=50/4½" Very Dense Grayish Tan Slightly Micaceous Silty Fine To Coarse Sand
					531.6	
78.5	Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss	NX	100		526.6	N=50/2½" No Recovery Carbide Bit Refusal And Top Of Continuous Rock At 78.5 ft. S 96
80.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-167P
DATE DRILLED 1-23-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

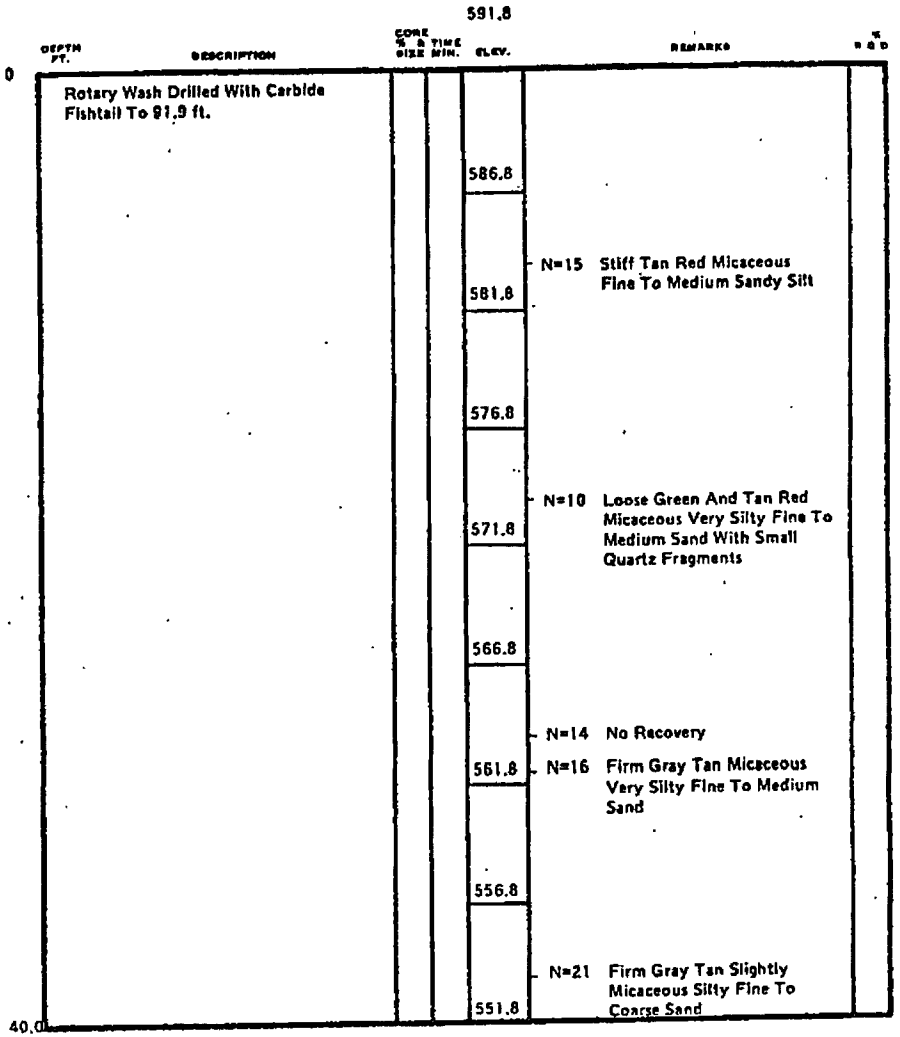
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-167P
DATE DRILLED 1-23-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

551.8

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q D
40.0	Rotary Wash Drilled With Carbide Fishtail To 91.9 ft.			546.8		
					N=35 Dense Gray Tan Slightly Micaceous Silty Fine To Coarse Sand	
				541.8		
				536.8		
58.0	Partially Weathered Rock				N=50/3" Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine To Coarse Sand When Sampled	
				531.8		
				526.8		
					N=50/4" Partially Weathered Rock That Becomes Gray Tan Slightly Micaceous Silty Fine To Coarse Sand When Sampled	
				521.8		
				516.8		
					N=50/3" No Recovery	
80.0				511.8		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–20°
M = MED DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 4

TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

511.8

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q D
80.0	Partially Weatherad Rock			506.8		
					N=50/½" No Recovery	
				501.8		
					Carbide Bit Refusal At 91.9 ft.	
91.9	Hard Very Light Tannish Gray Felsic Gneiss	NX			91.9 ft to 101.3 ft.: Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Some Leaching Along Healed Joints.	
		100		496.8		81
97.9	Hard Medium Light Gray Mafic Gneiss					
98.5	Hard To Moderately Hard Very Light Tannish Gray Felsic Gneiss			491.8	Slightly Weathered Zones (97.9 ft - 98.5 ft.). Severe To Complete Weathering (101.3 ft to 107.8 ft.)	
101.3	Soft Dark Greenish Gray Mafic Gneiss					
102.3	Core Loss Soil Traces - Grayish Tan Very Silty Slightly Micaceous Fine To Coarse Sand	44		486.8	107.8 ft. to 126.5 ft.: Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Some Leaching Along Healed Joints.	22
107.8	Moderately Hard To Hard Very Light Tannish Gray To Very Light Gray Felsic Gneiss	89		481.8		39
		87		476.8		46
		61		471.8		30
120.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

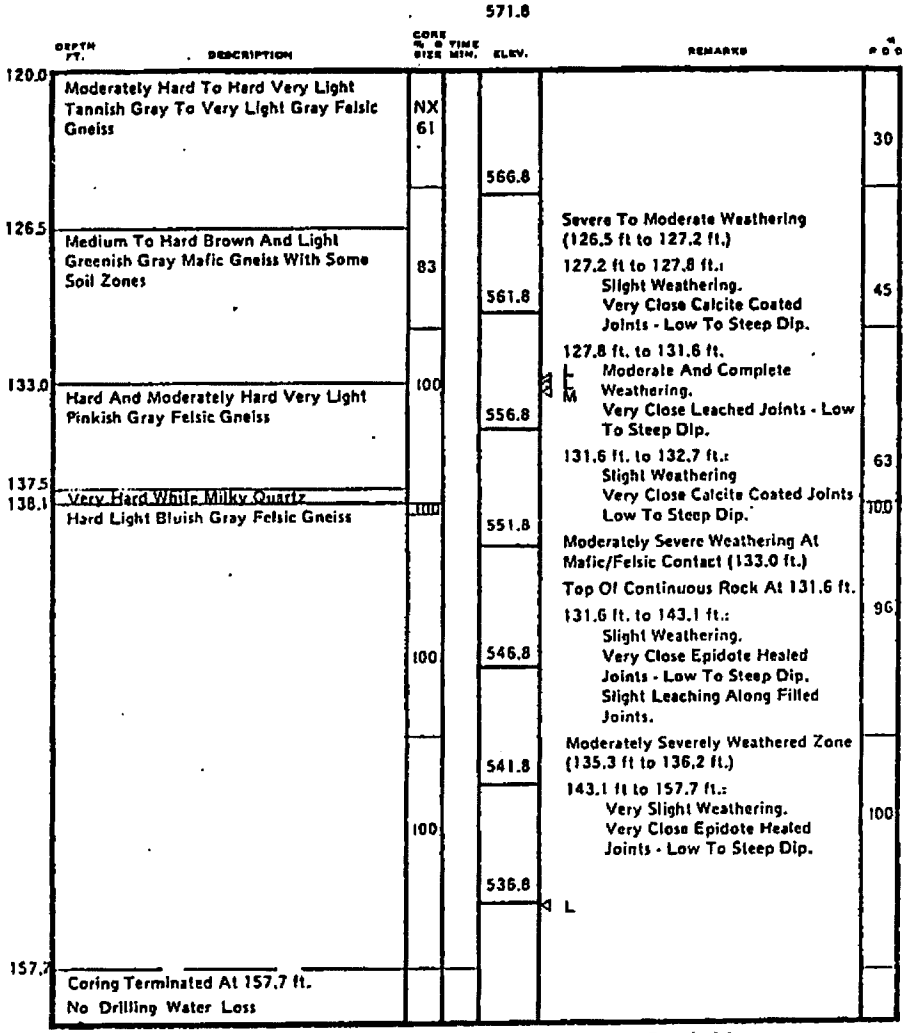
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



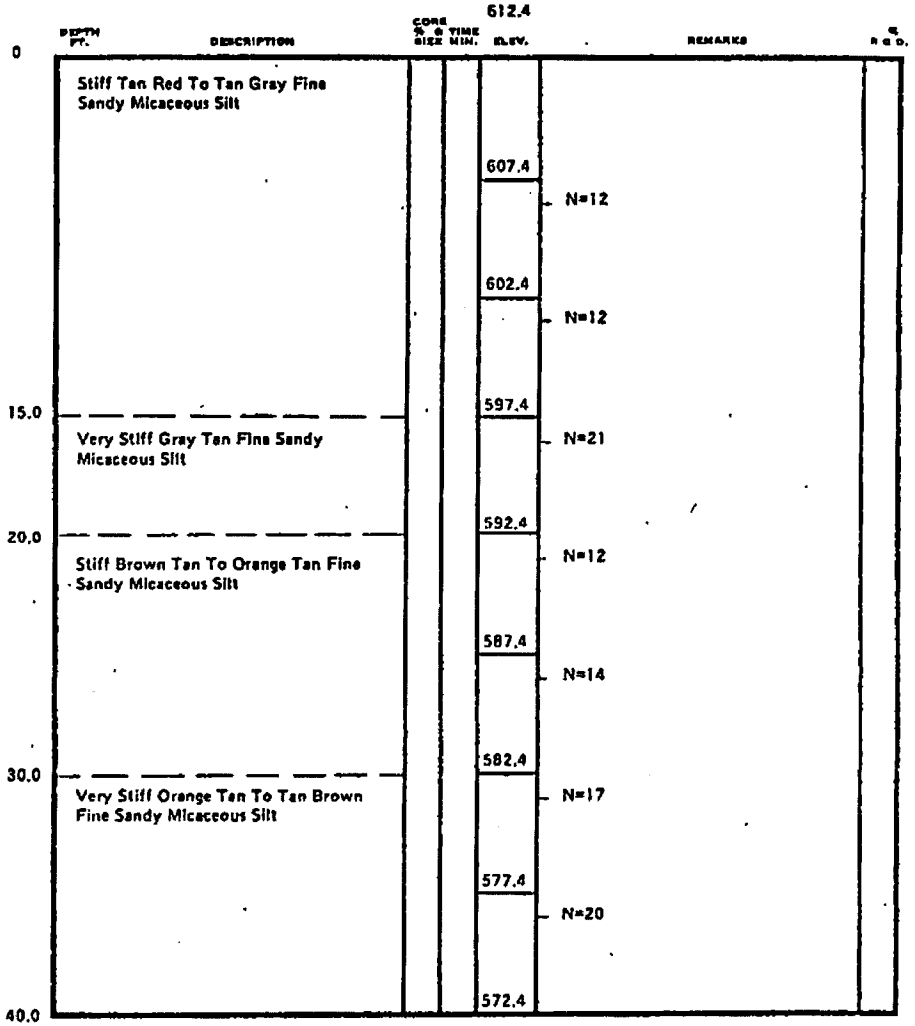
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



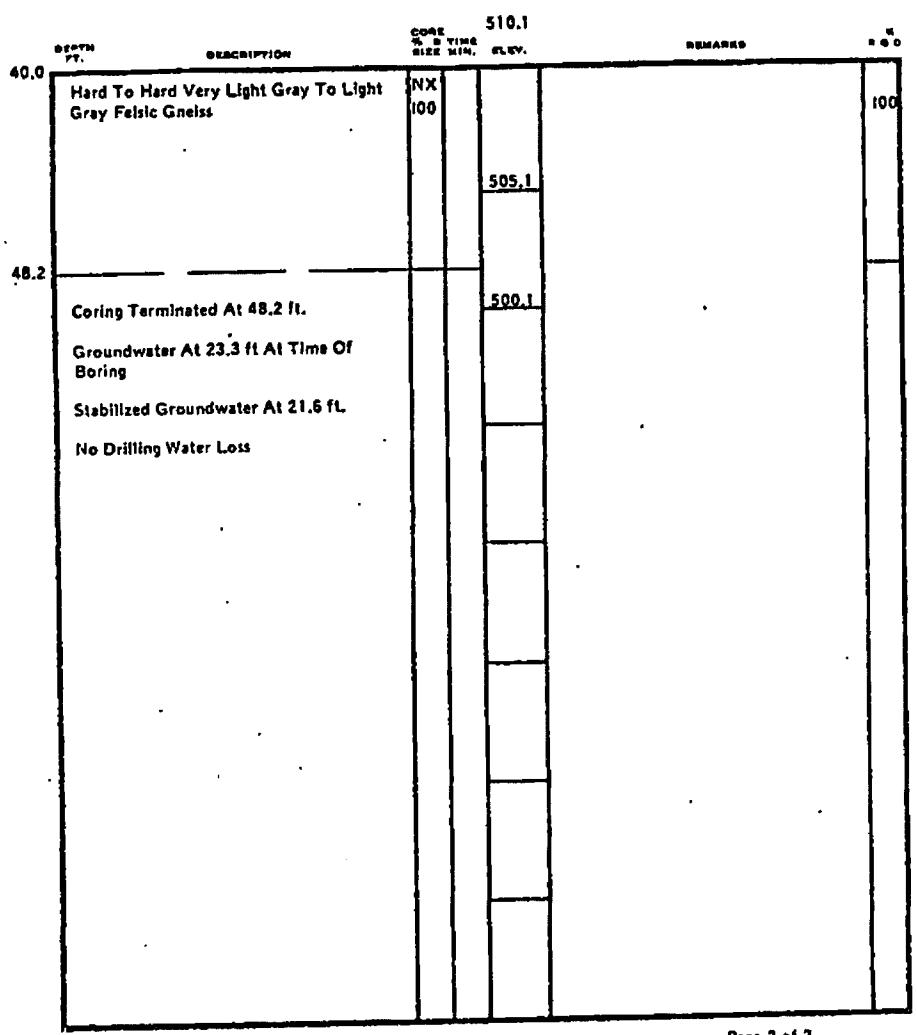
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-170P
DATE DRILLED 2-21-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

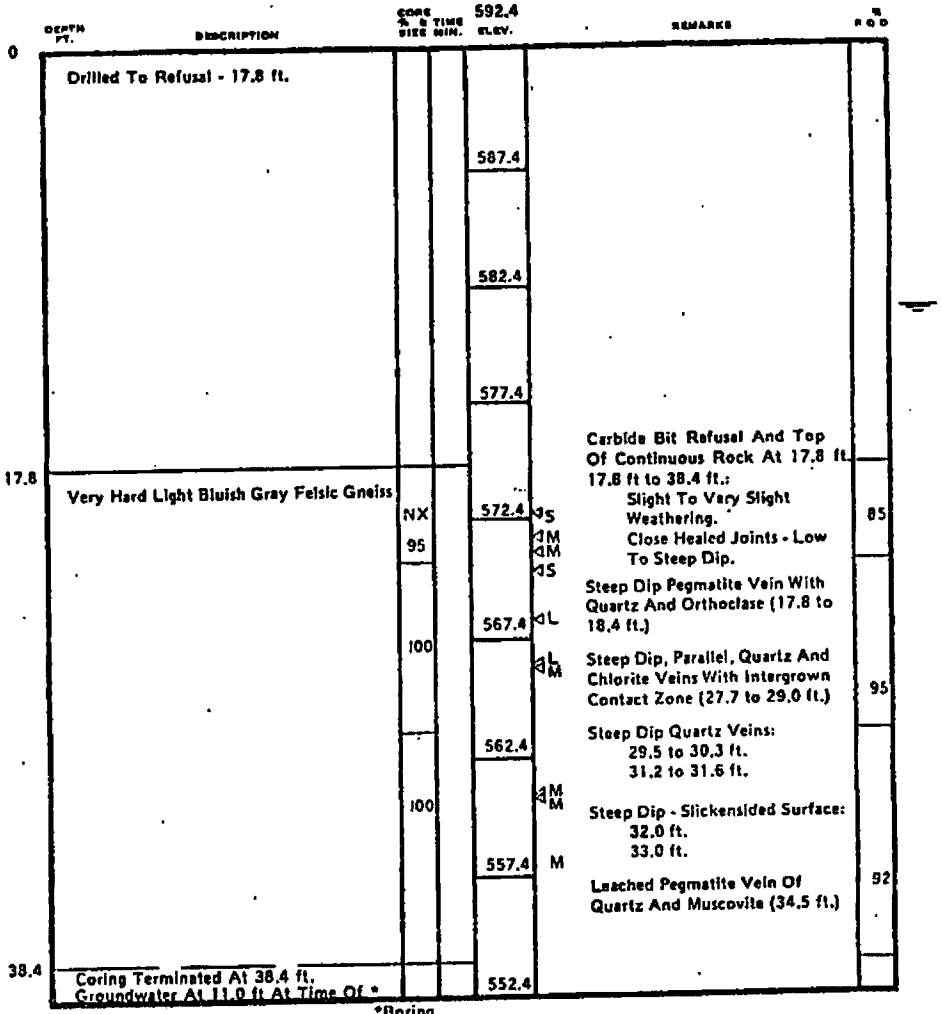
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-185
DATE DRILLED 2-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



*Boring Stabilized Groundwater At 11.9 ft. No Drilling Water Loss

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

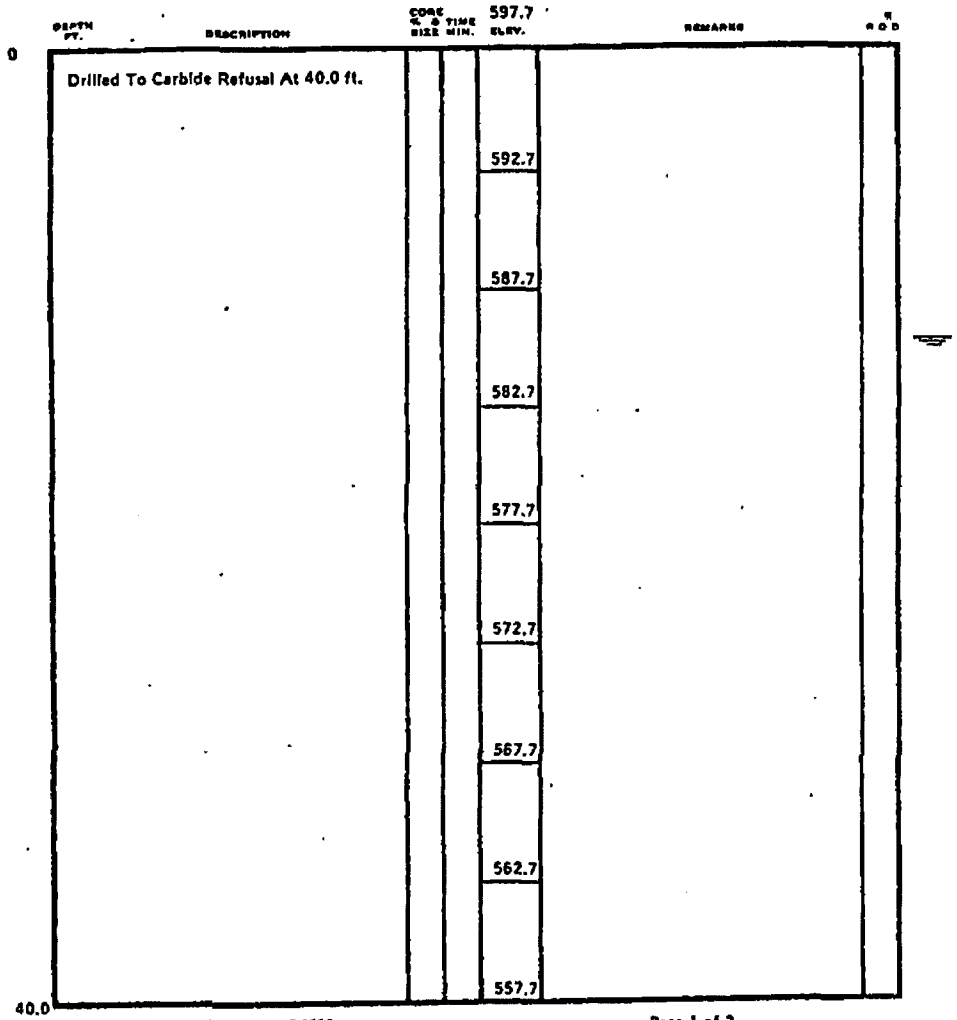
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-186P
DATE DRILLED 2-13-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

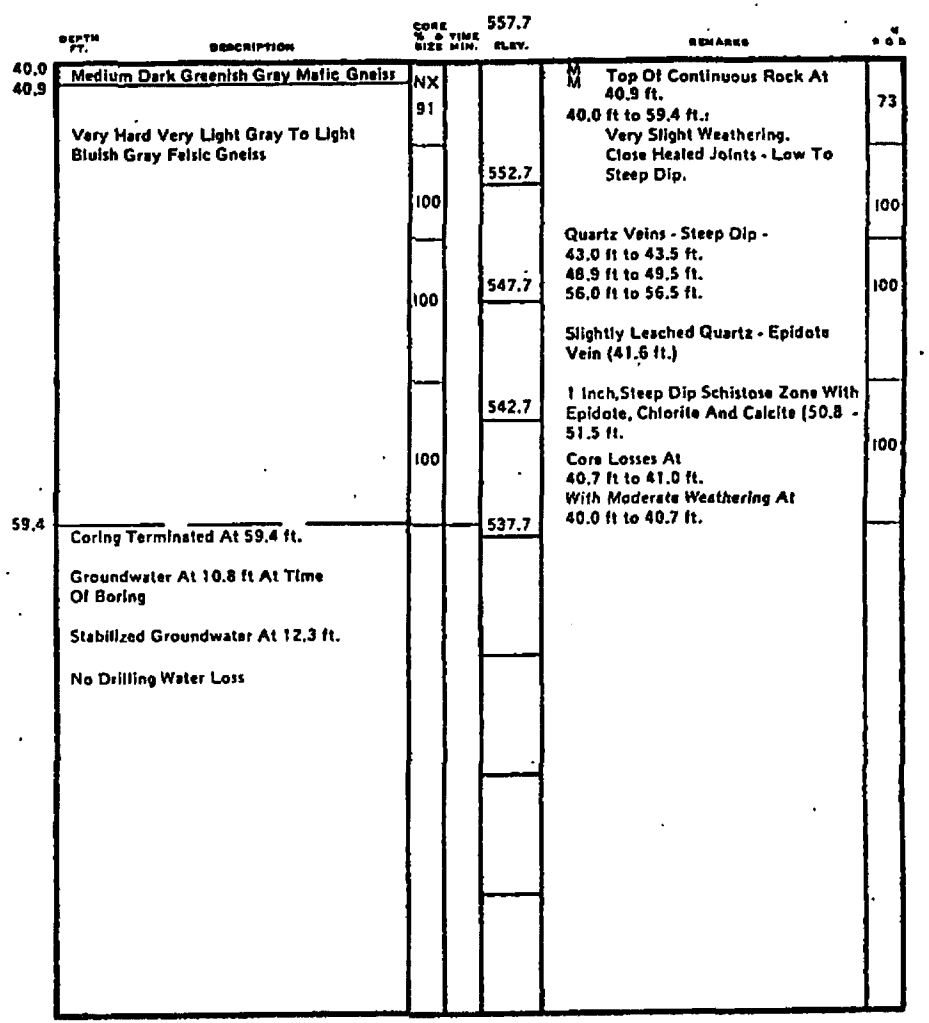
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–35°
M = MED. DIP 35°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-187P
DATE DRILLED 2-15-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

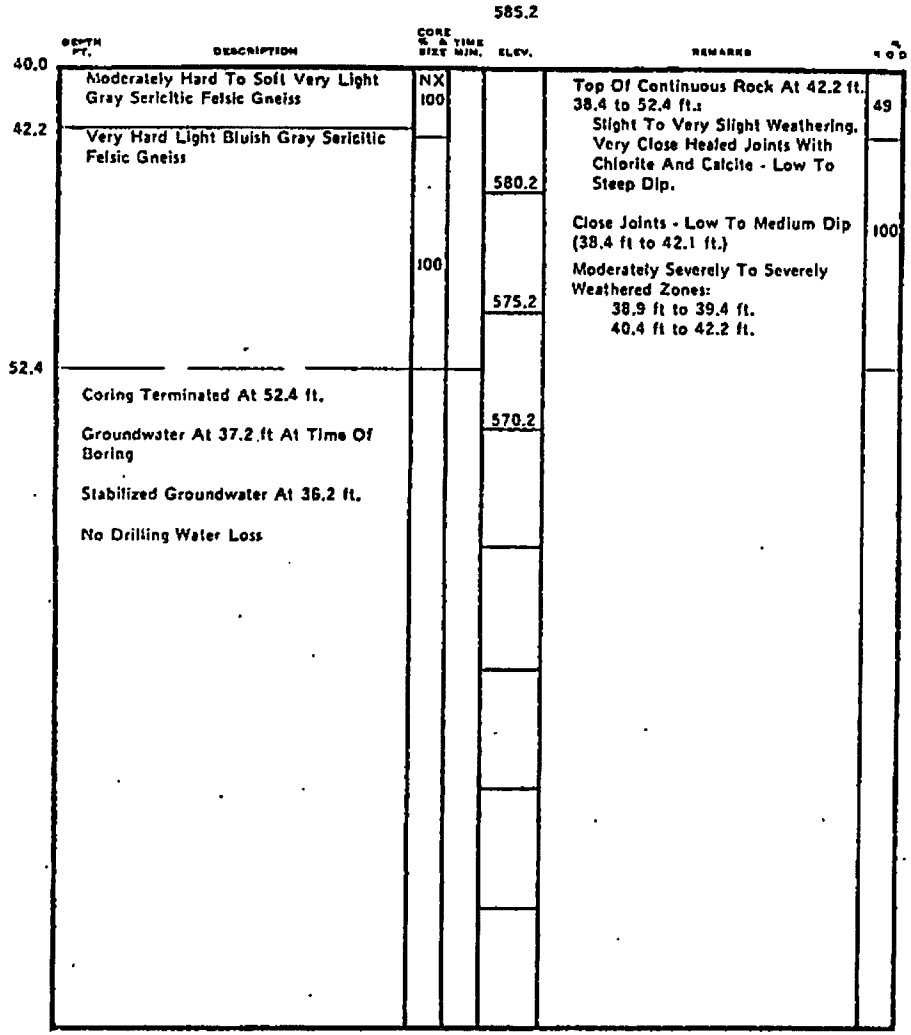
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–35°
M = MED. DIP 35°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-187P
DATE DRILLED 2-15-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

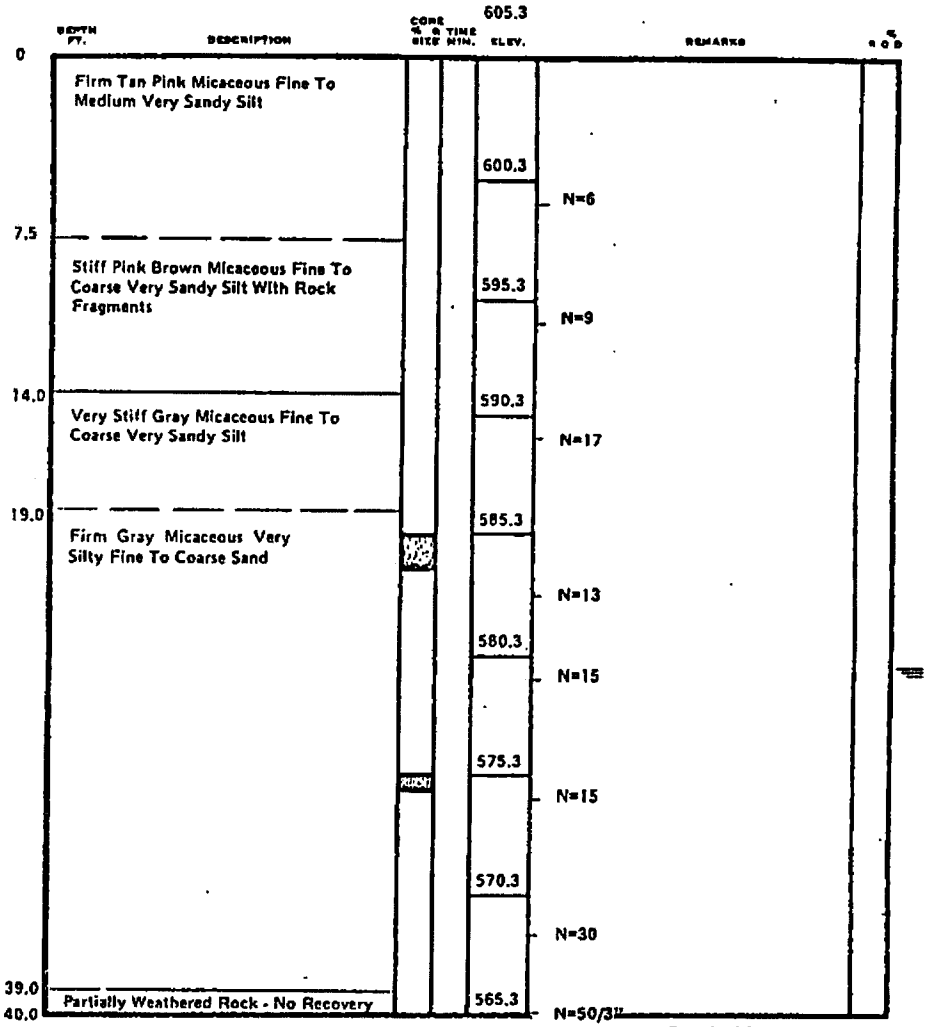
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-212
DATE DRILLED 4-17-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

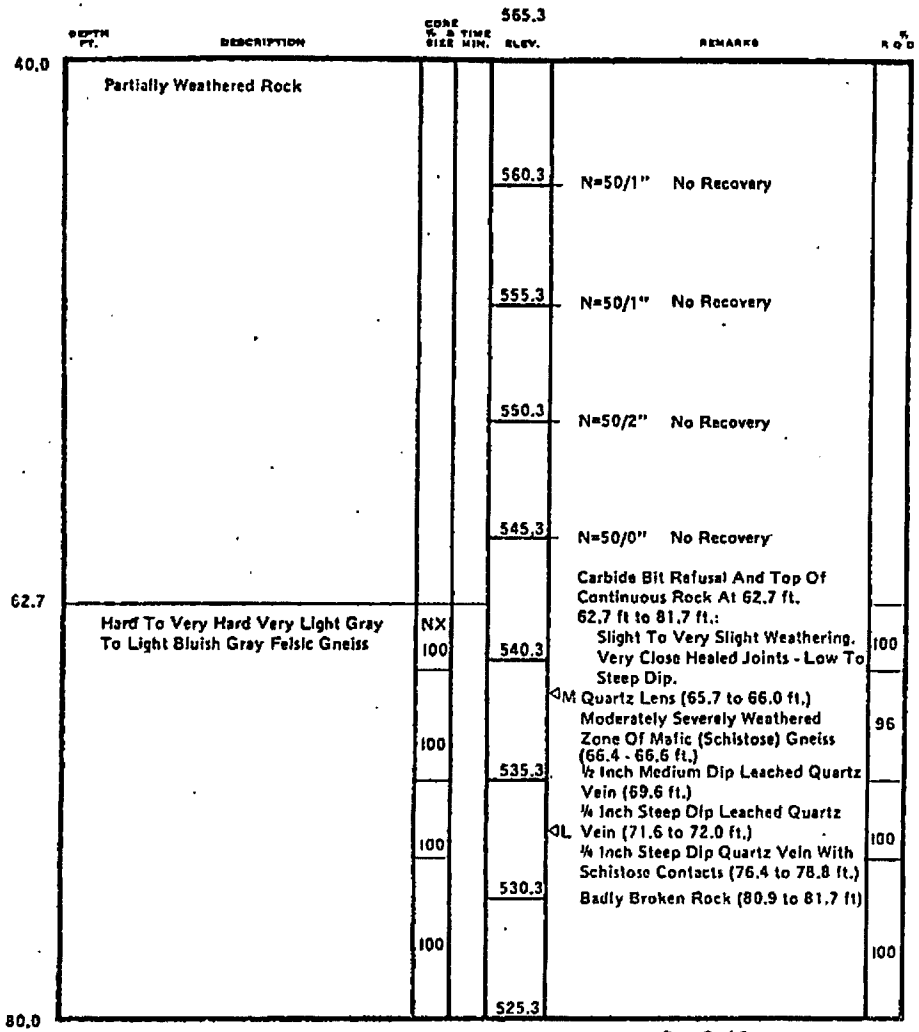
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-213
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

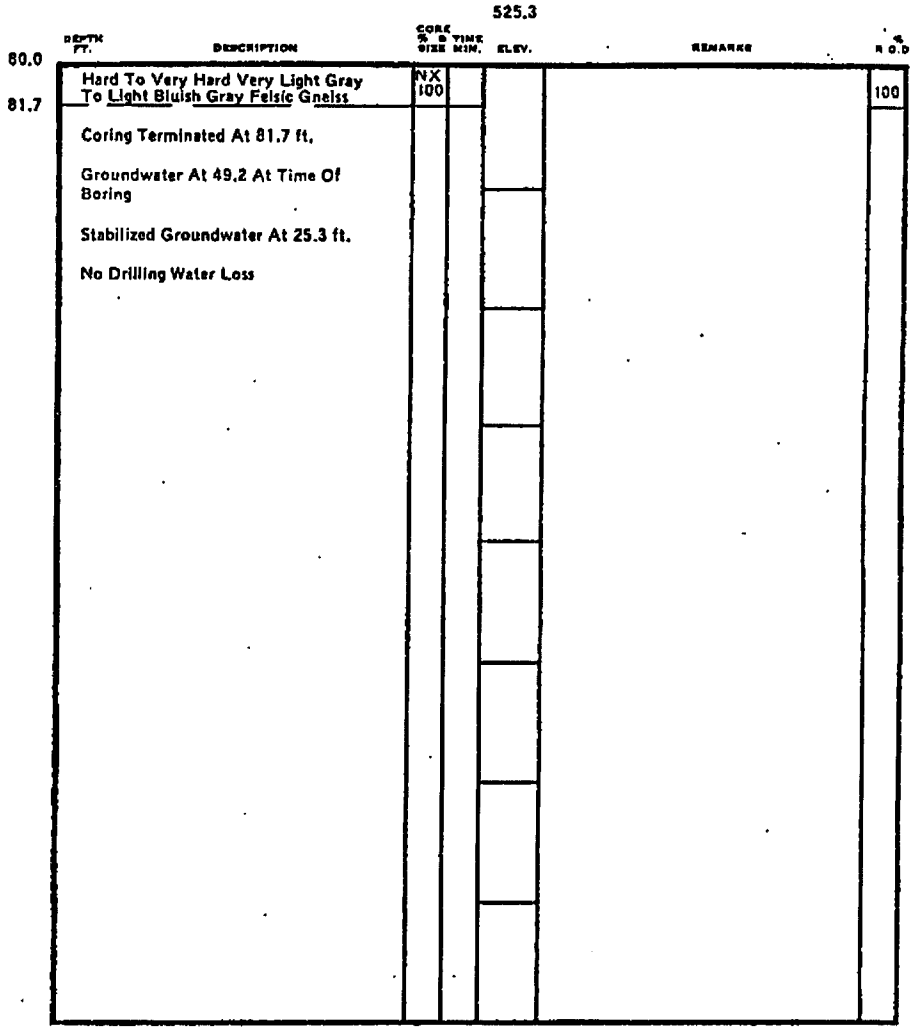
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-213
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

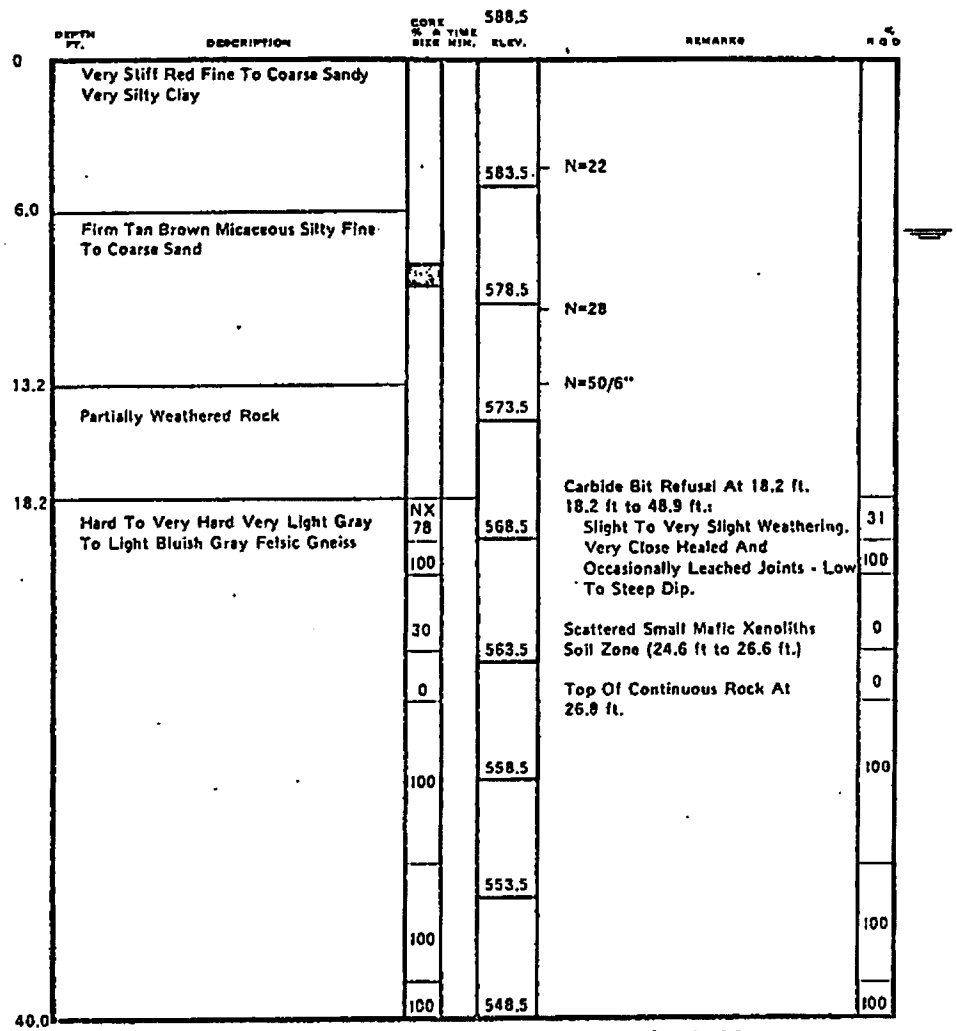
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINT
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-213
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

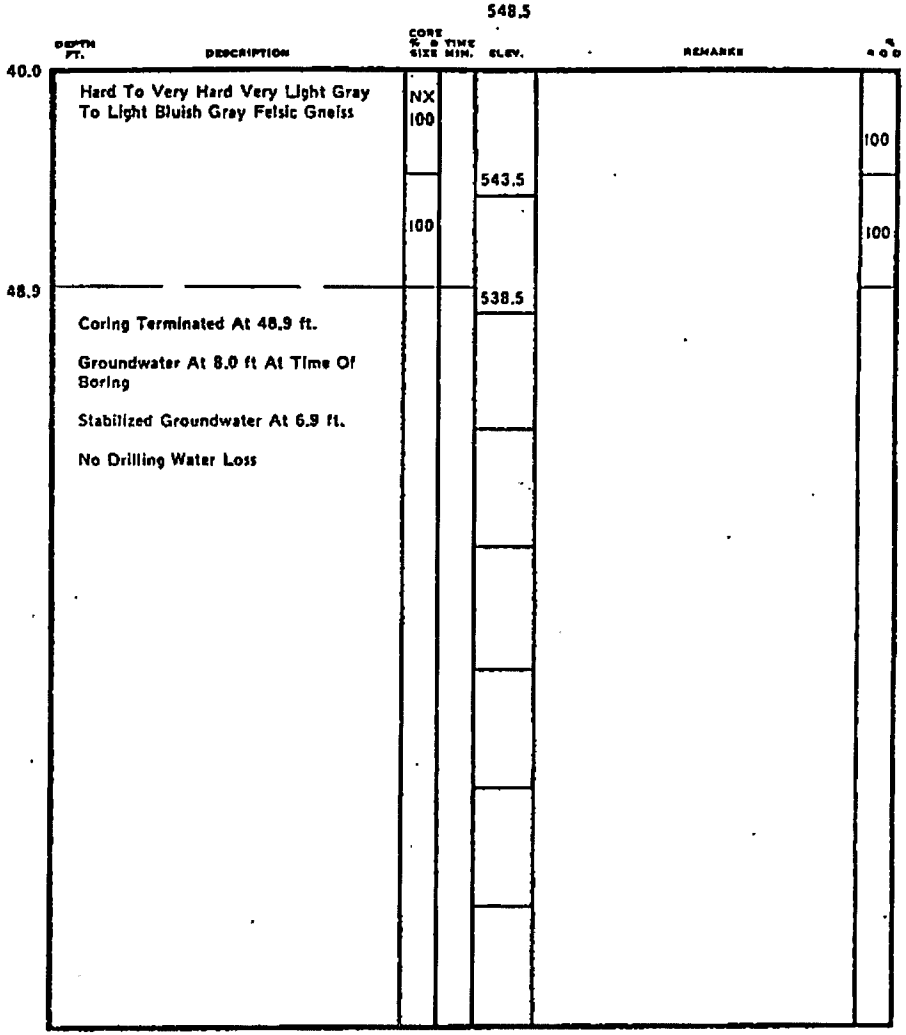
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-214
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

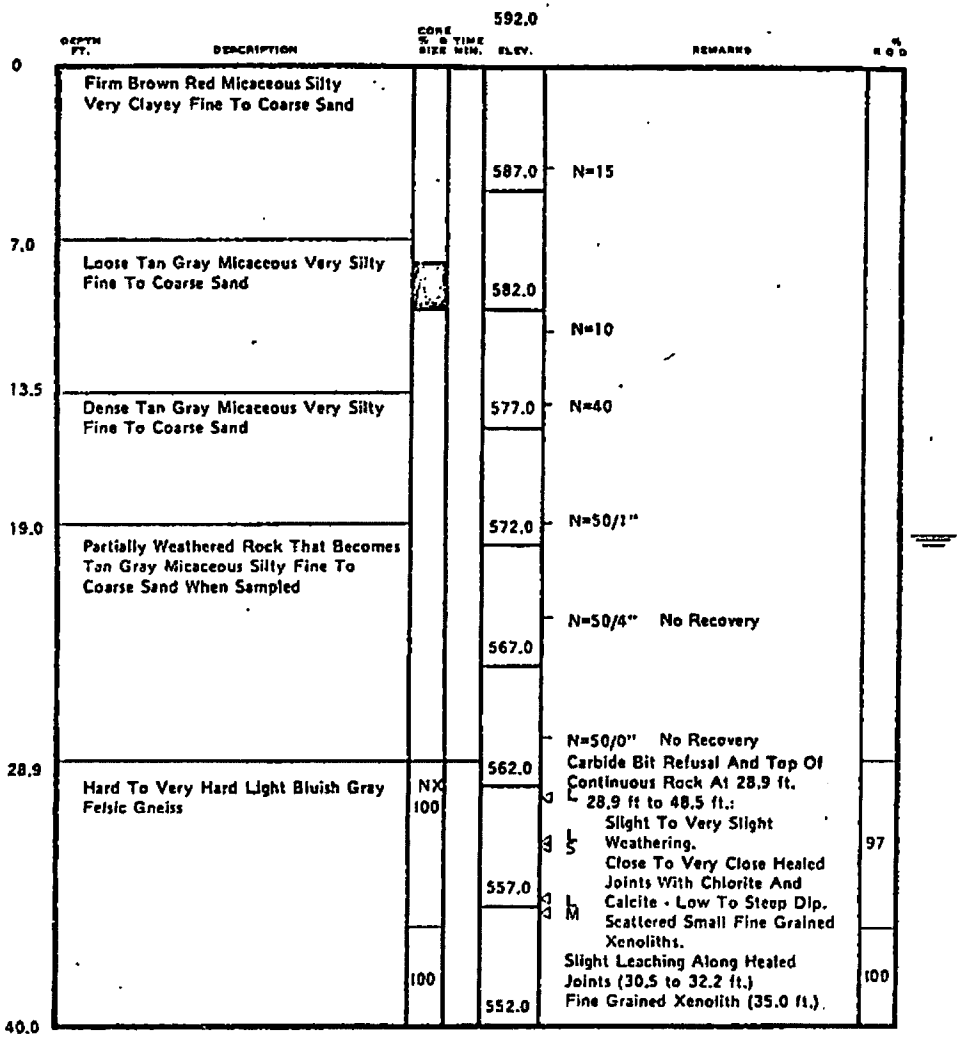
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-214
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

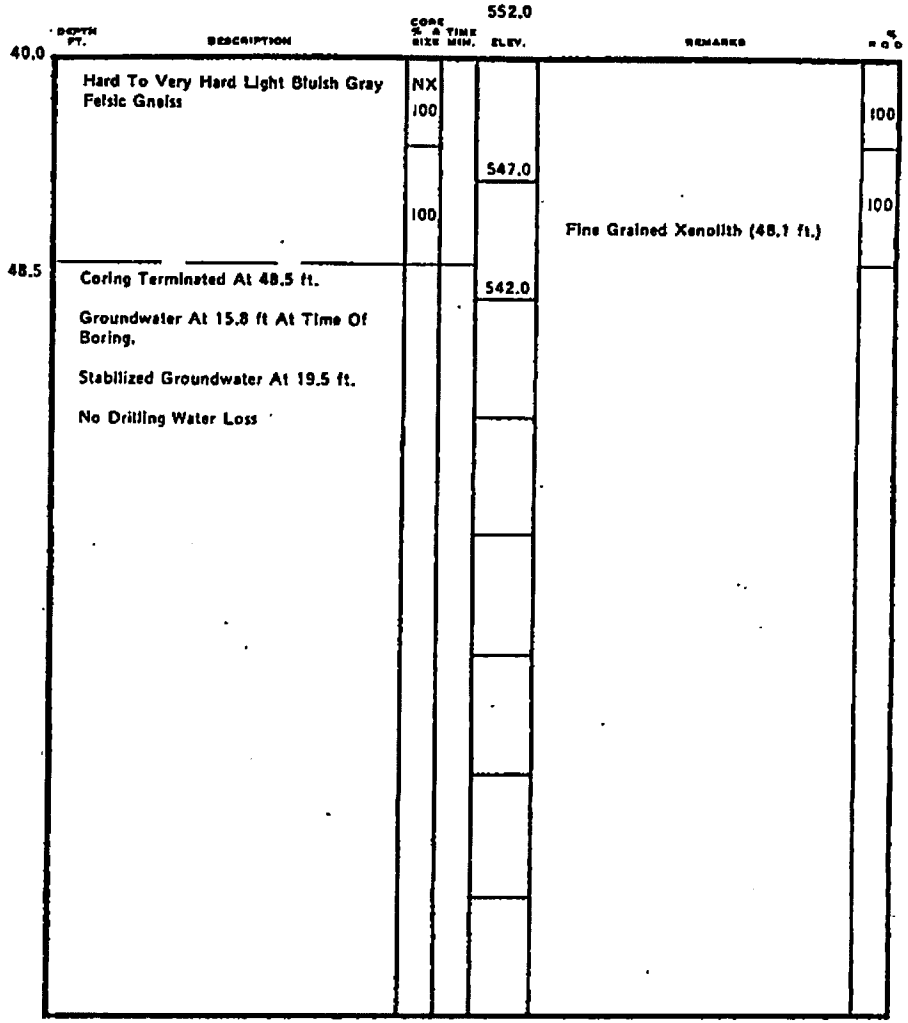
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-215
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

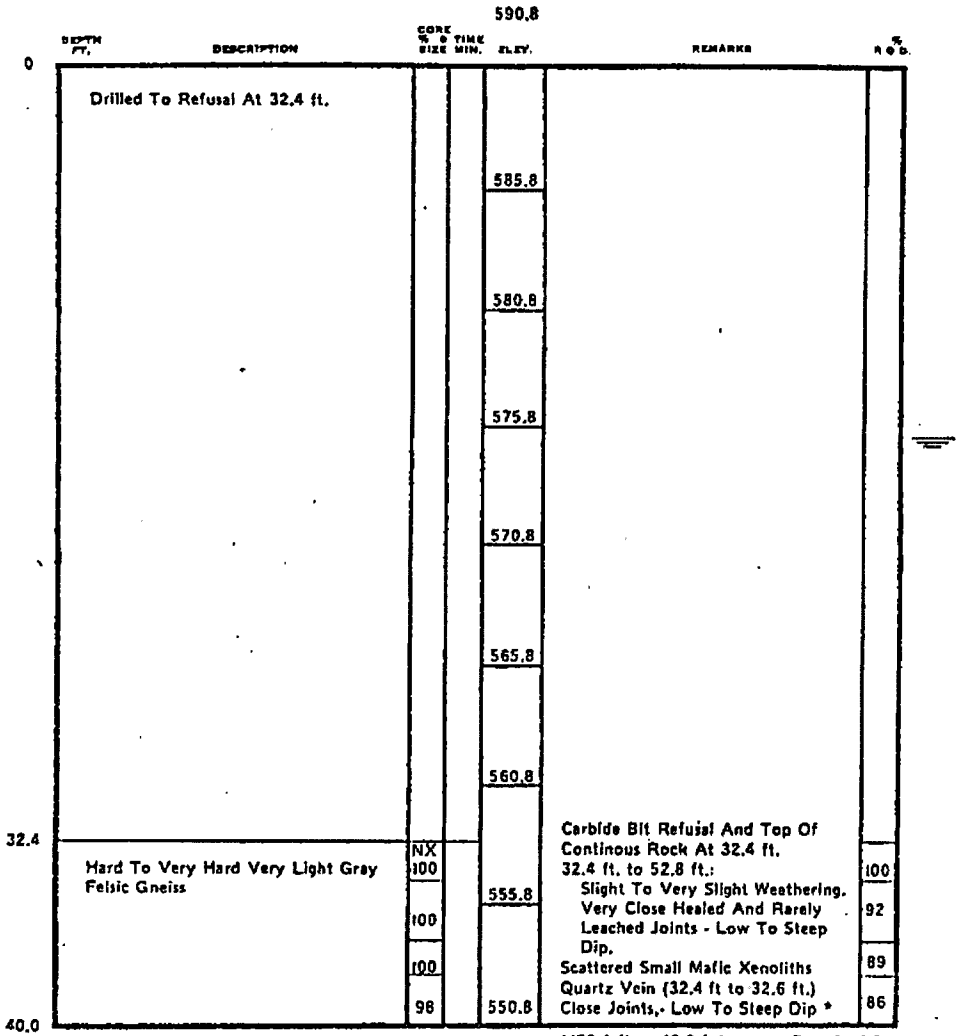
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-215
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

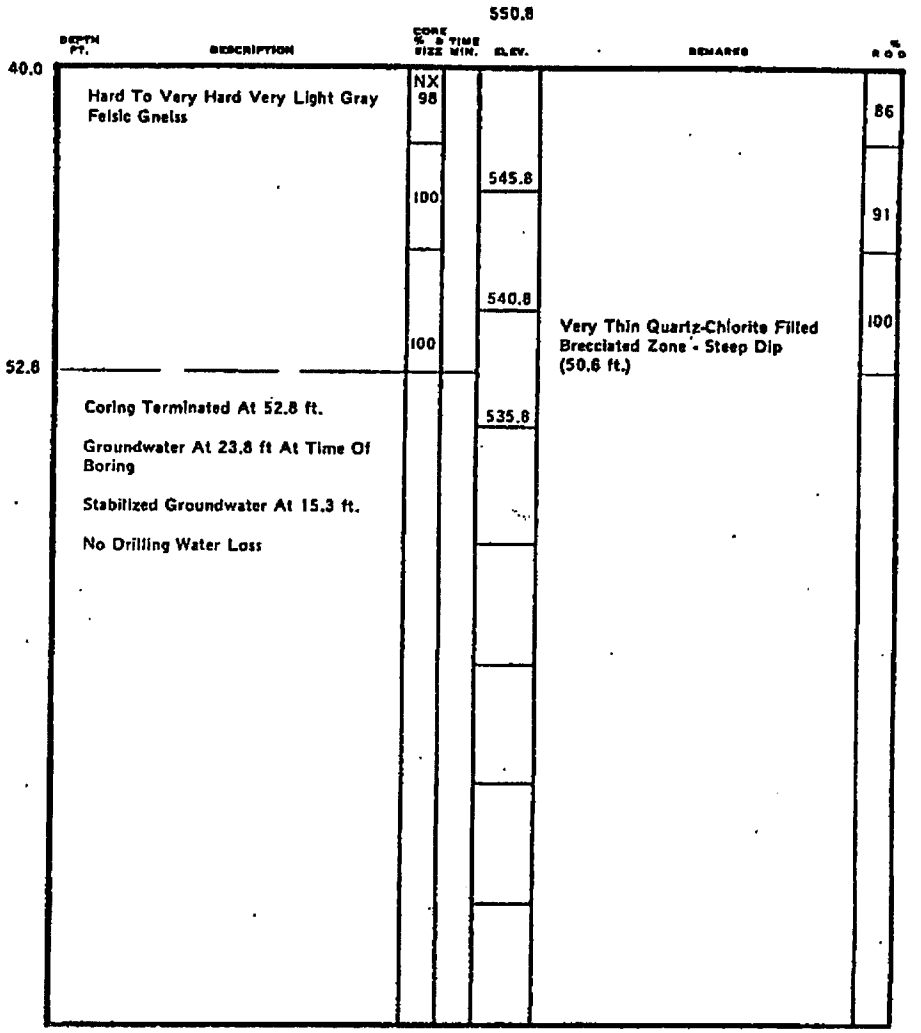
UNDISTURBED SAMPLE — WATER TABLE, 24 HR
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-216
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

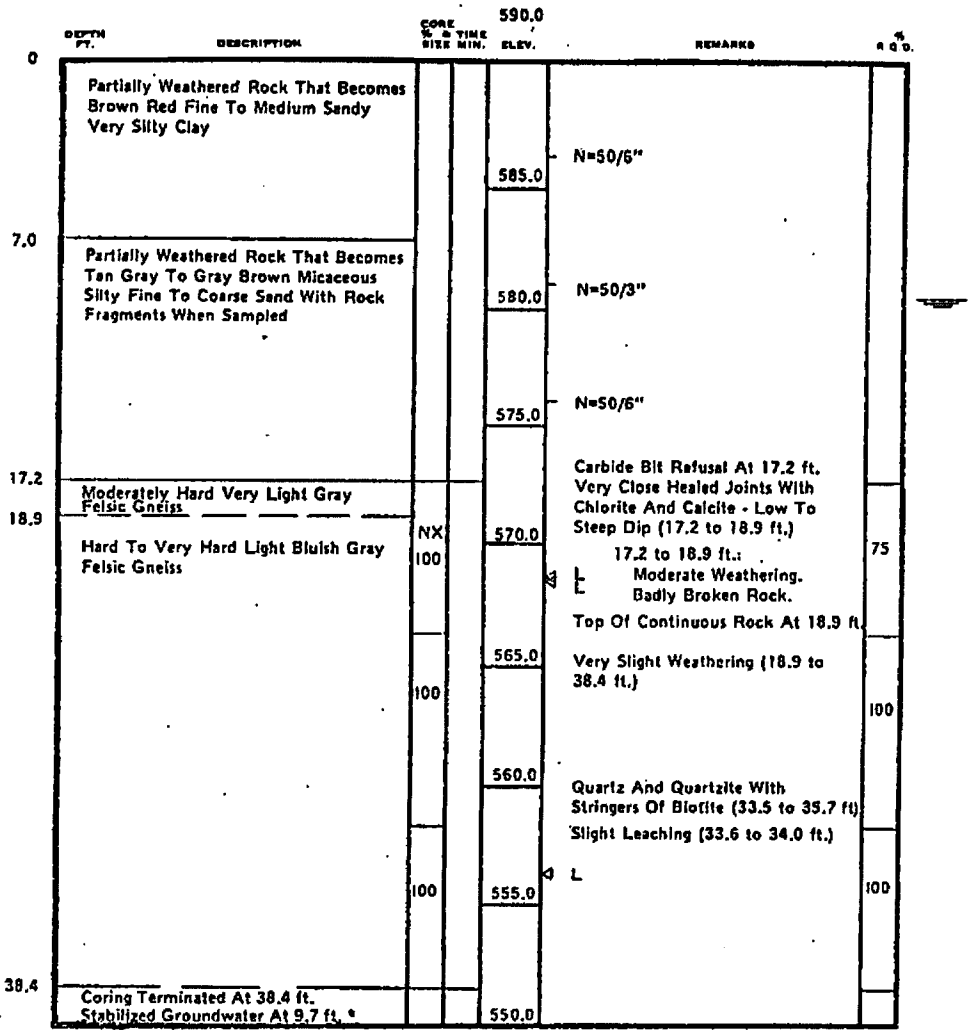
UNDISTURBED SAMPLE — WATER TABLE, 24 HR
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-216
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

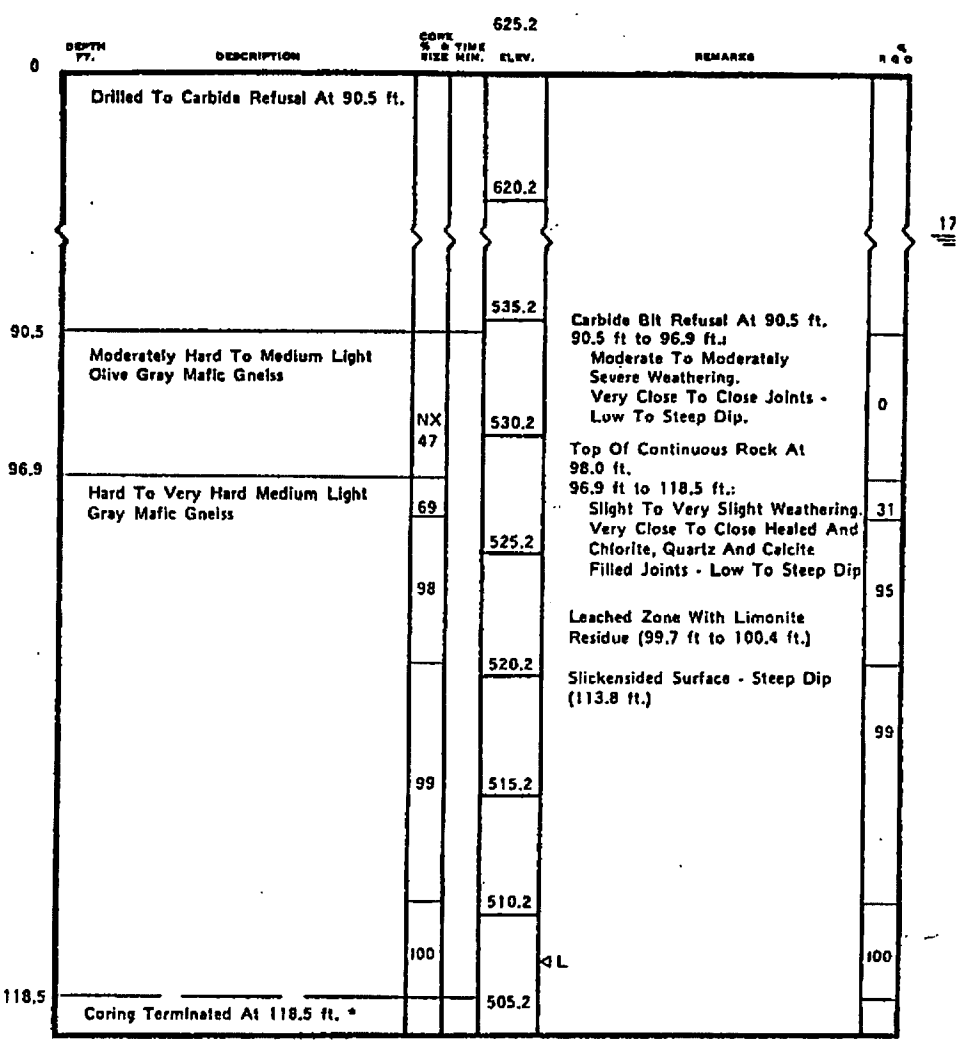
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-217
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586 * Groundwater At 43.4 ft At Time Of Boring
CORE DRILLING MEETS ASTM D-2113 Stabilized Groundwater 17.8 ft.
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

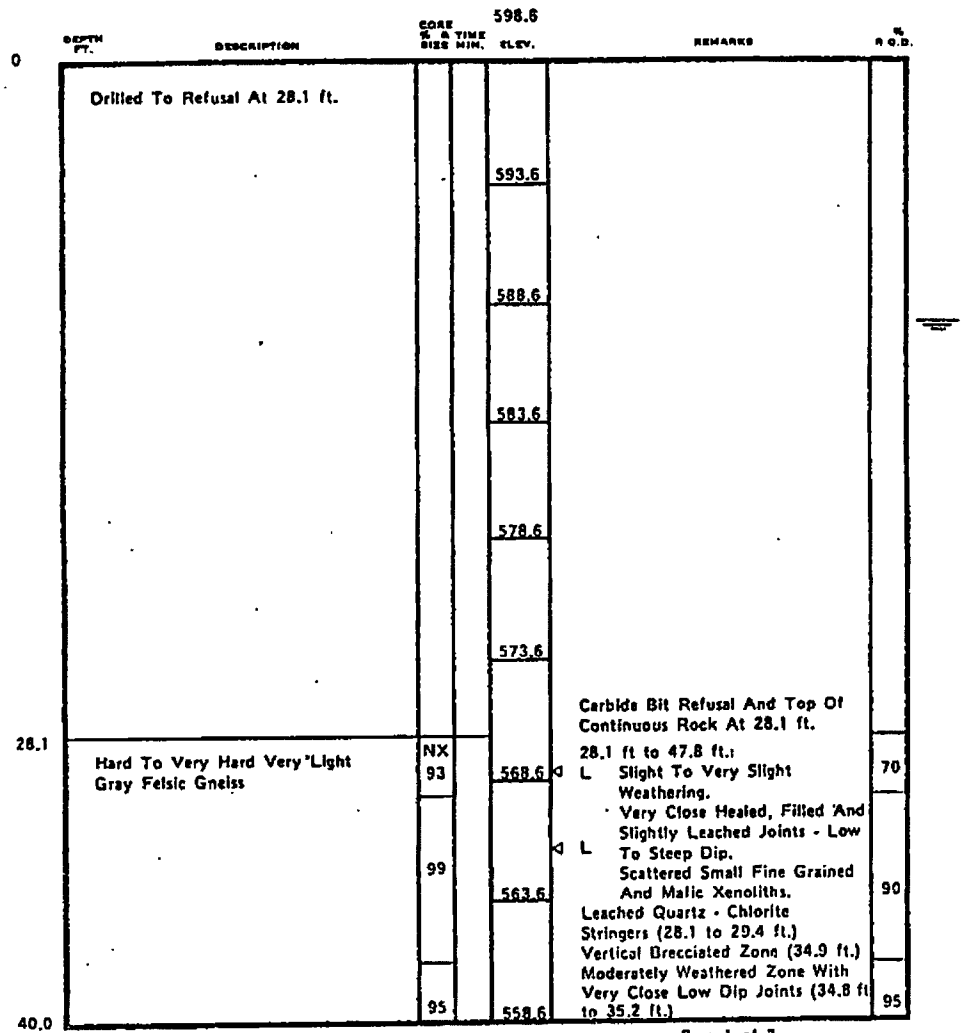
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-218
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



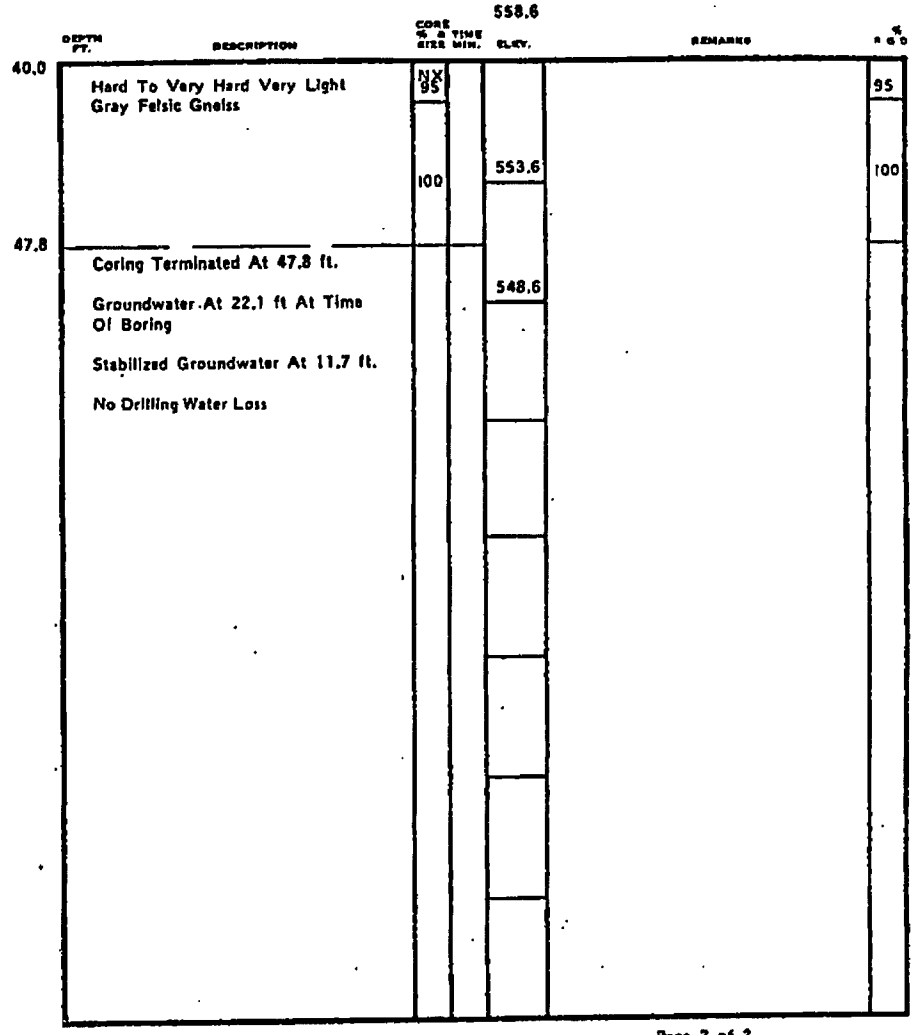
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-219
DATE DRILLED 4-1-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



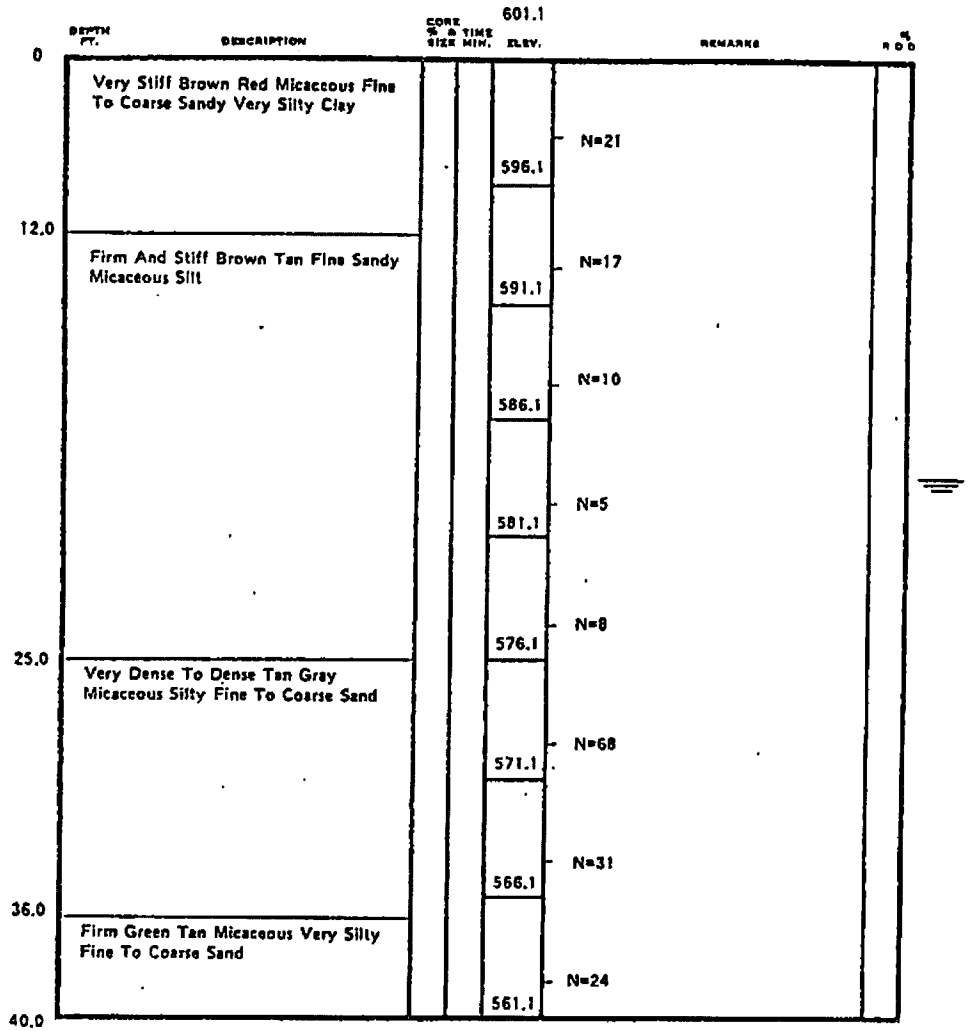
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-219
DATE DRILLED 4-1-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 1 of 2

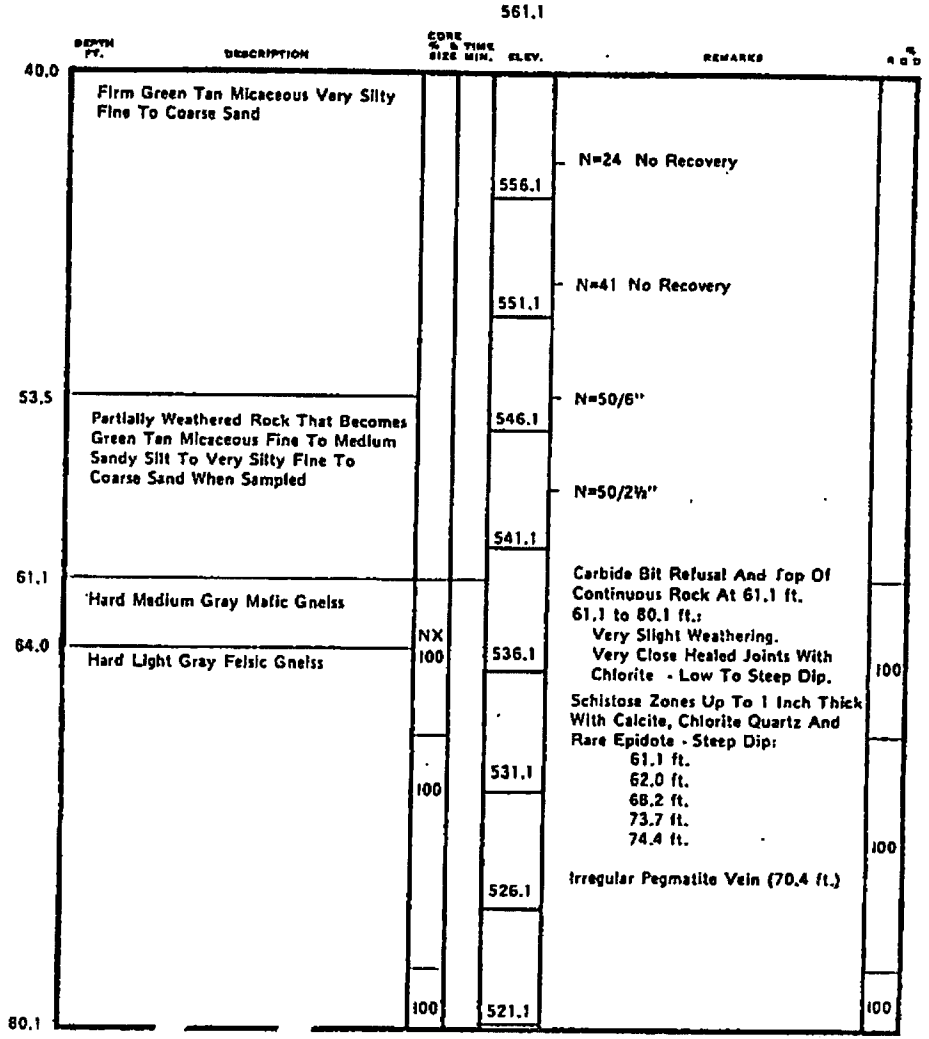
TEST BORING RECORD

BORING NO. B-220

DATE DRILLED 4-2-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO



Coring Terminated At 80.1 ft.
Groundwater At 9.5 ft At Time Of Boring
Stabilized Ground-water At 17.4 ft.
No Drilling Water Loss

Page 2 of 2

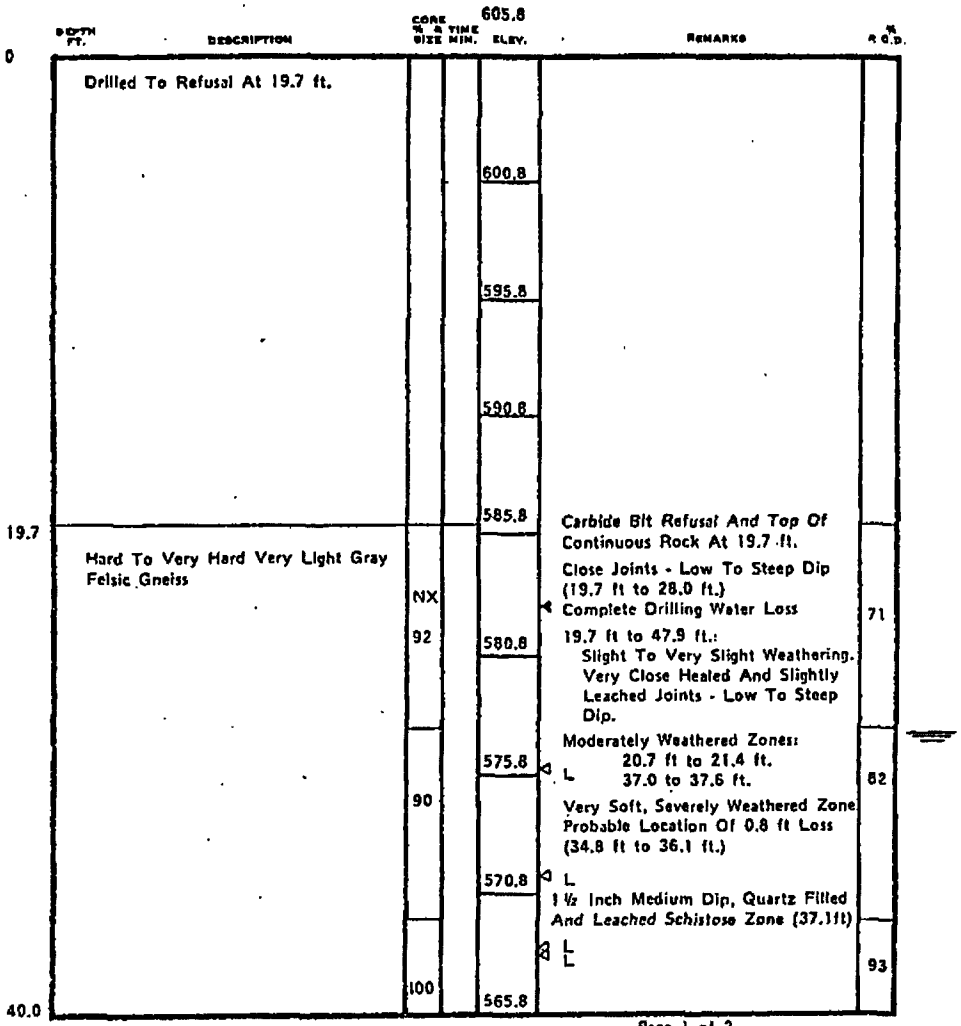
TEST BORING RECORD

BORING NO. B-220

DATE DRILLED 4-2-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

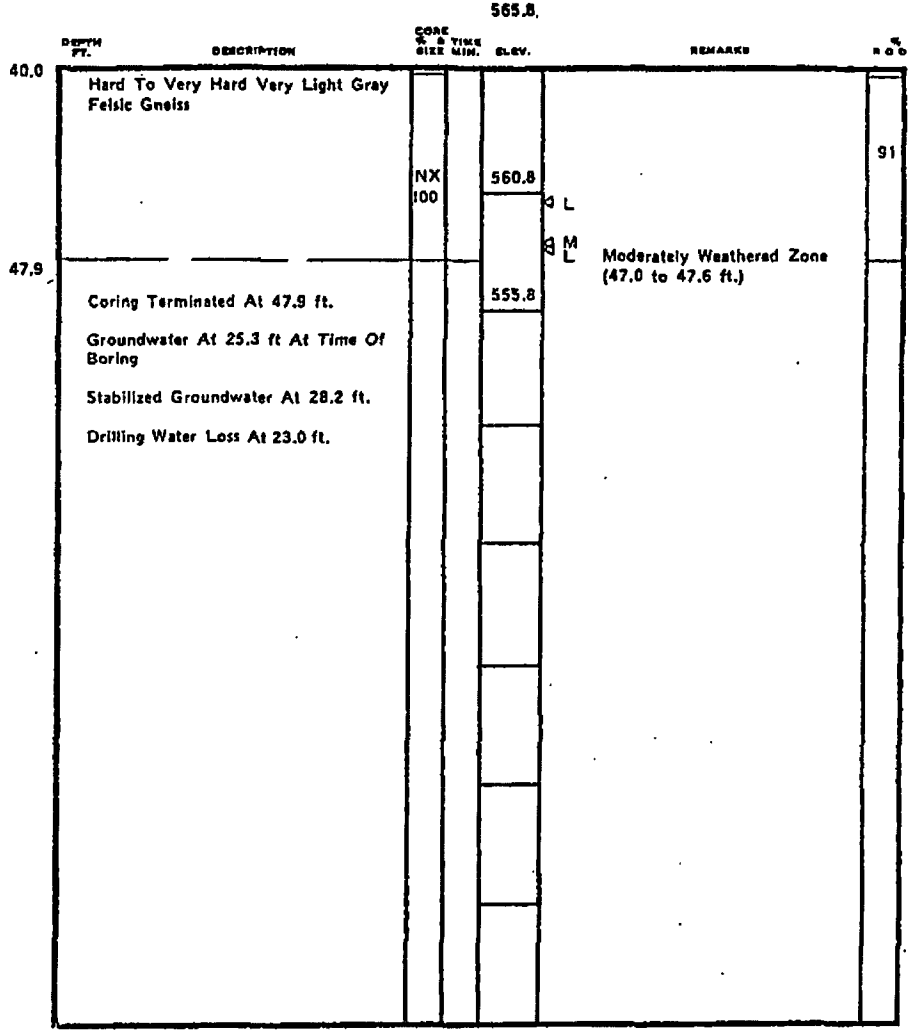
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-221
DATE DRILLED 4-5-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

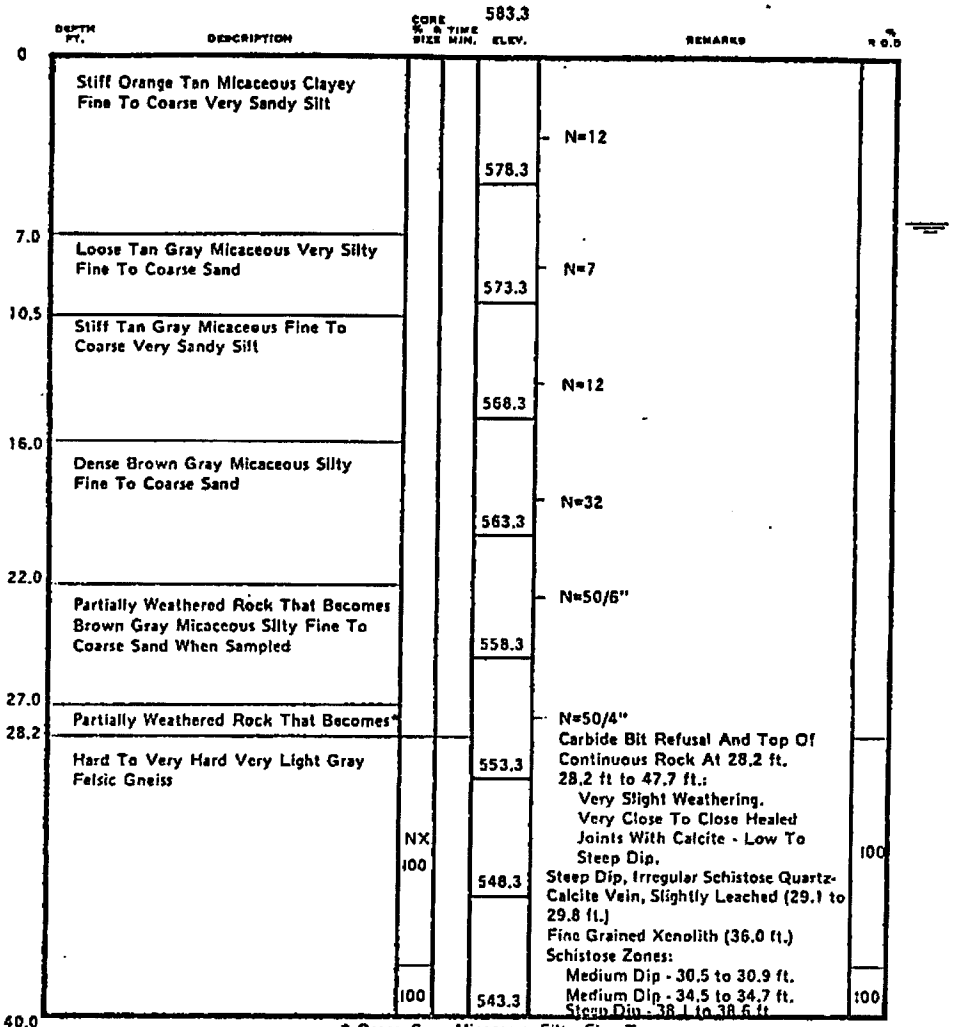
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-221
DATE DRILLED 4-5-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

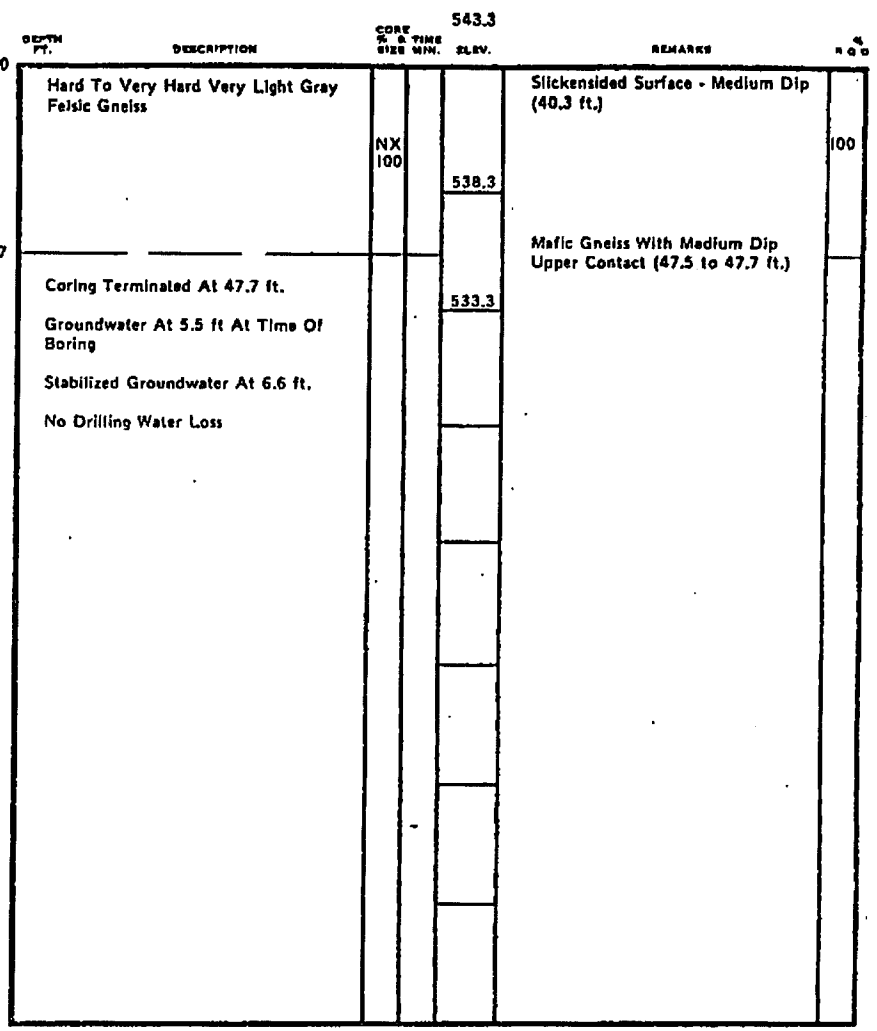
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-222
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

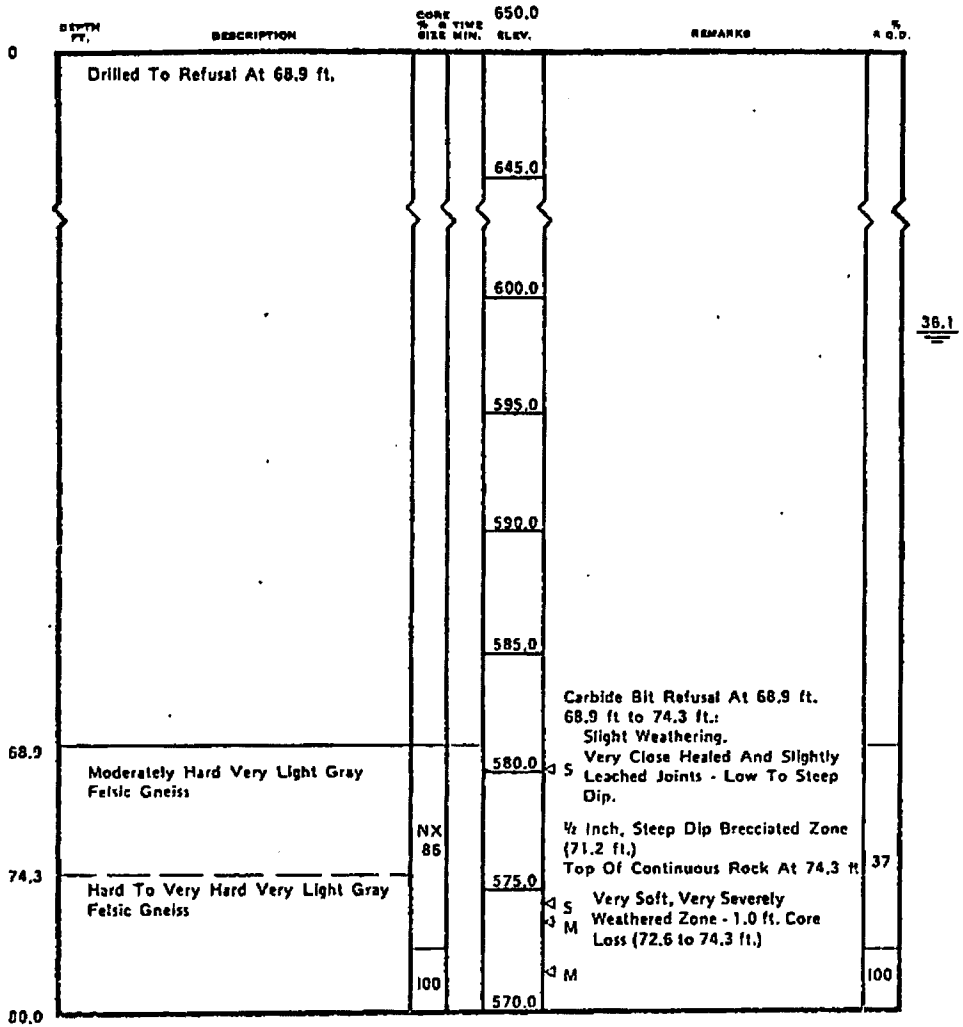
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-222
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

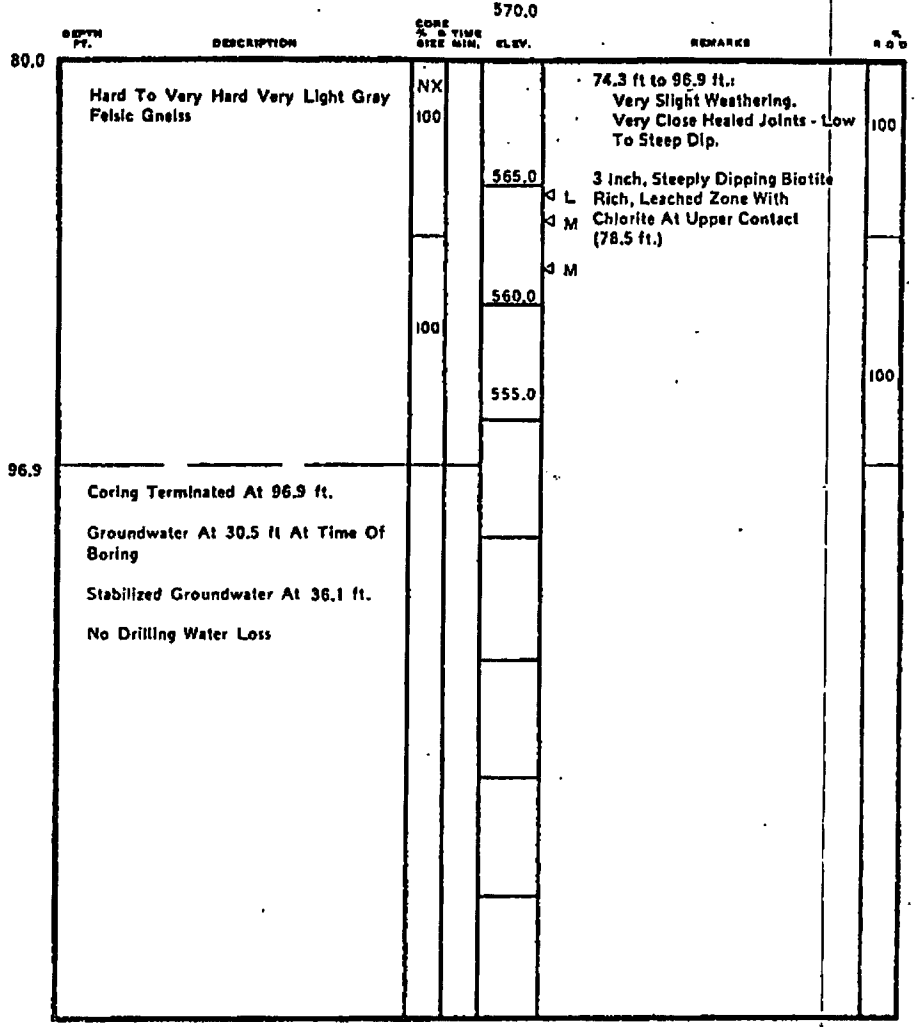
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-223
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-223
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

624.6

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Drilled To Refusal At 54.1 ft.					
				619.6		
				574.6		
54.1	Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss	NX	100	569.6	Carbide Bit Refusal And Top Of Continuous Rock At 54.1 ft. 54.1 ft to 73.5 ft.: Slight To Very Slight Weathering, Very Close Healed And Slightly Leached Joints - Low To Steep Dip.	100
			84	564.6	Scattered Small Fine Grained Xenoliths - Core Loss (60.9 ft to 61.4 ft.)	84
			100	559.6		100
			100	554.6		100
73.5	Coring Terminated At 73.5 ft. Groundwater At 33.6 ft At Time Of Boring Hole Caved At 16.5 ft Before Taking 24 Hour Water Reading Drilling Water Loss At 69.4 ft.			549.6		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT;
ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°
STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-224
DATE DRILLED 3-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

610.9

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Drilled To Carbide Bit Refusal At 46.0 ft.					
				605.9		
				600.9		
				595.9		
				590.9		
				585.9		
				580.9		
				575.9		
40.0				570.9		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

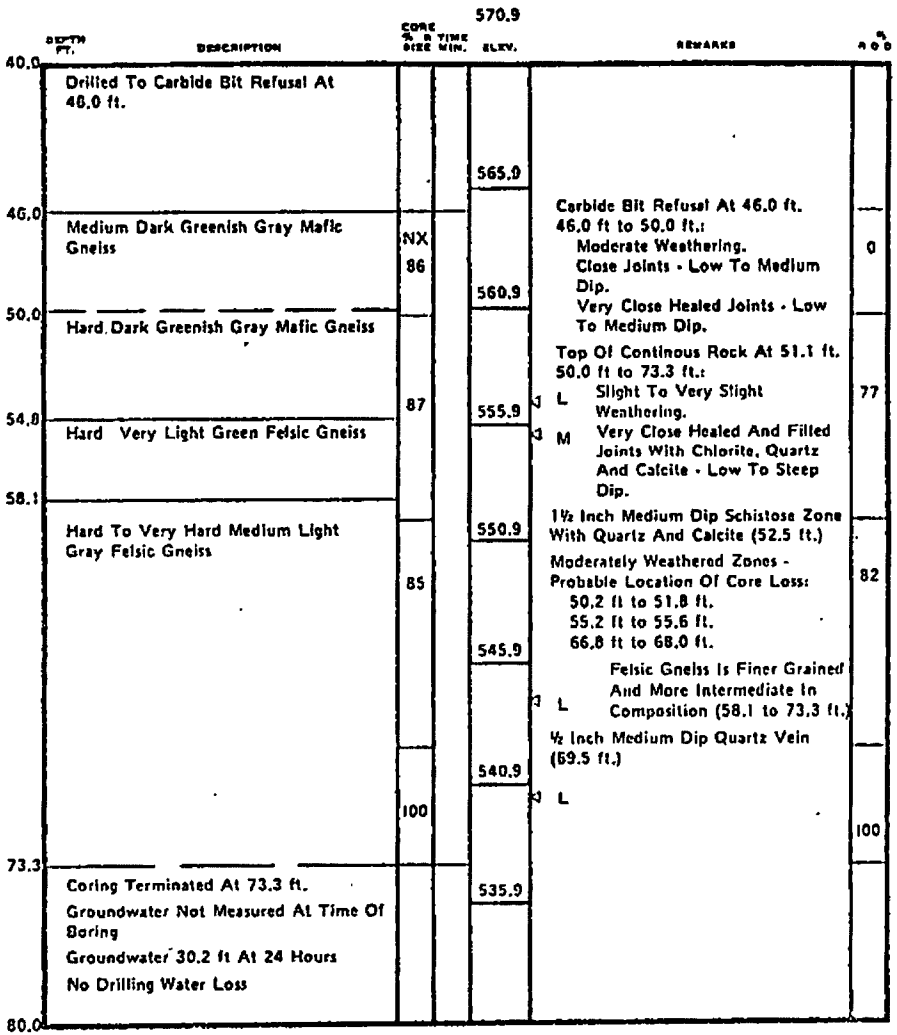
UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT;
ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°
STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-225
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

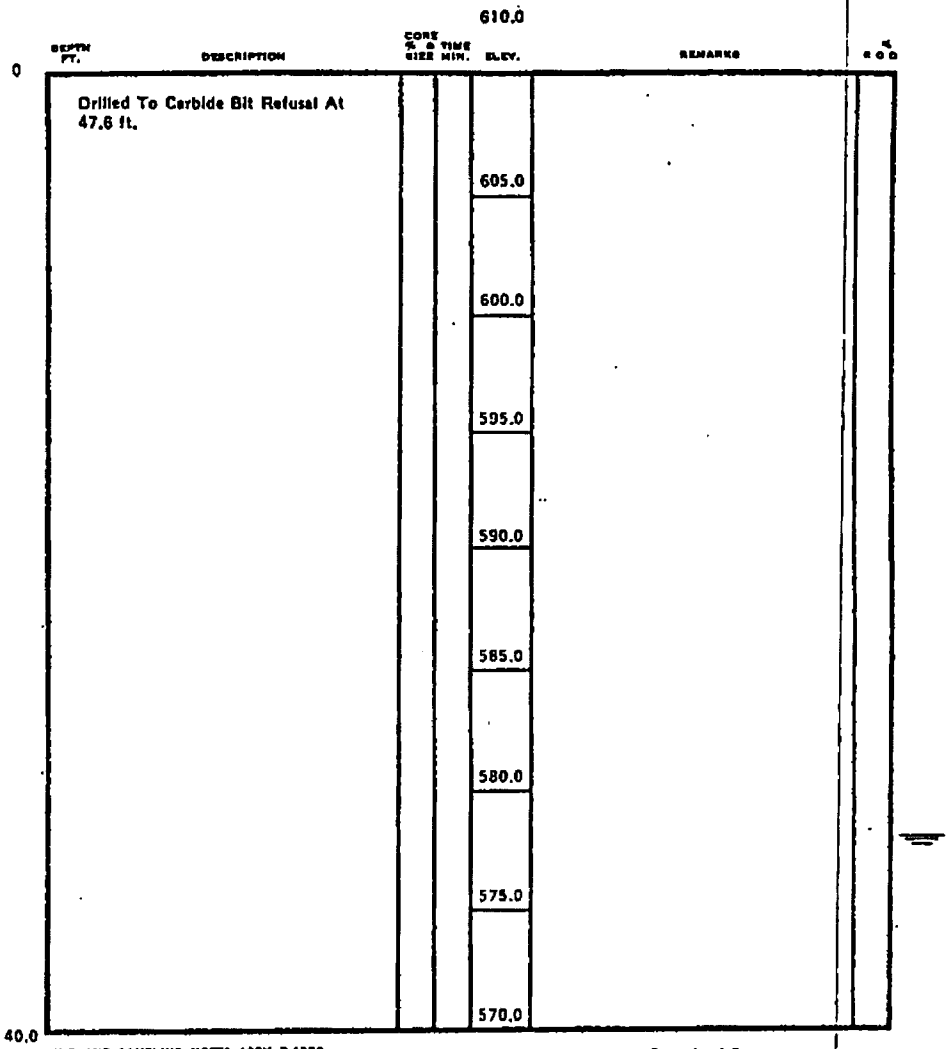
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINTS
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-225
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

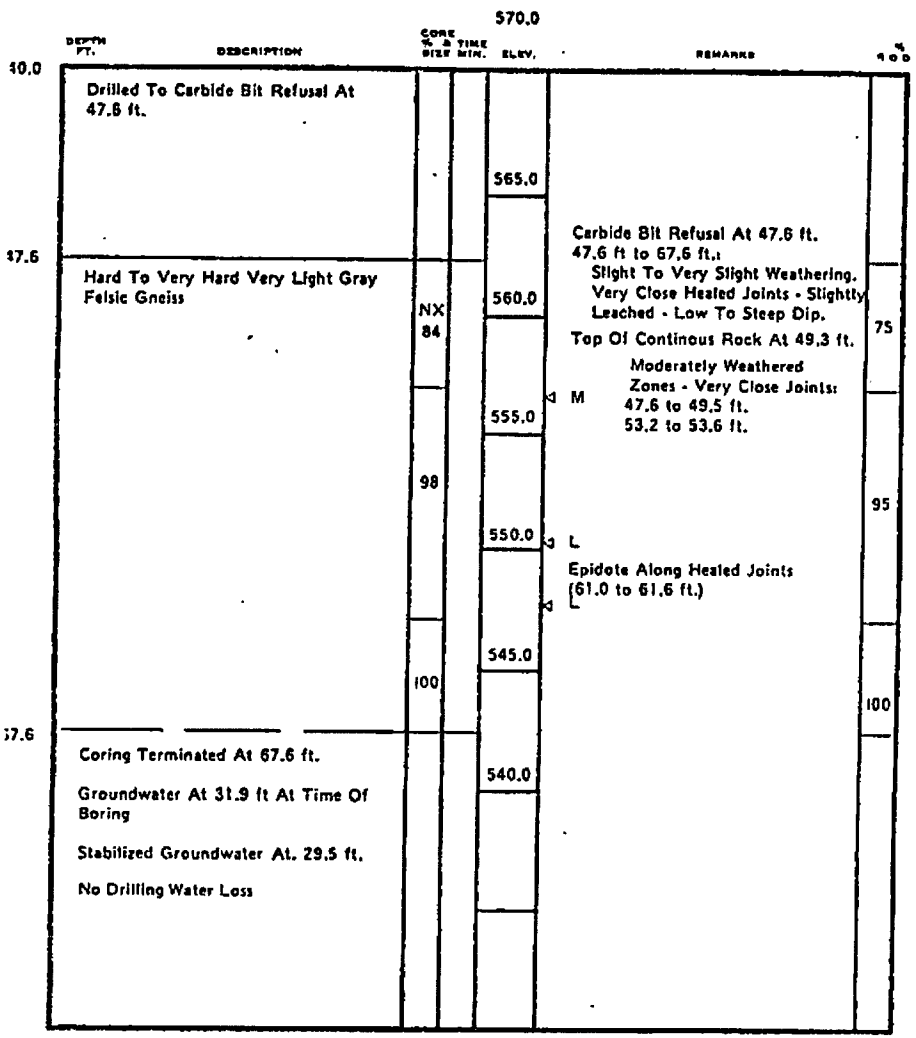
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◁ ROCK JOINTS
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-226
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

CORE UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

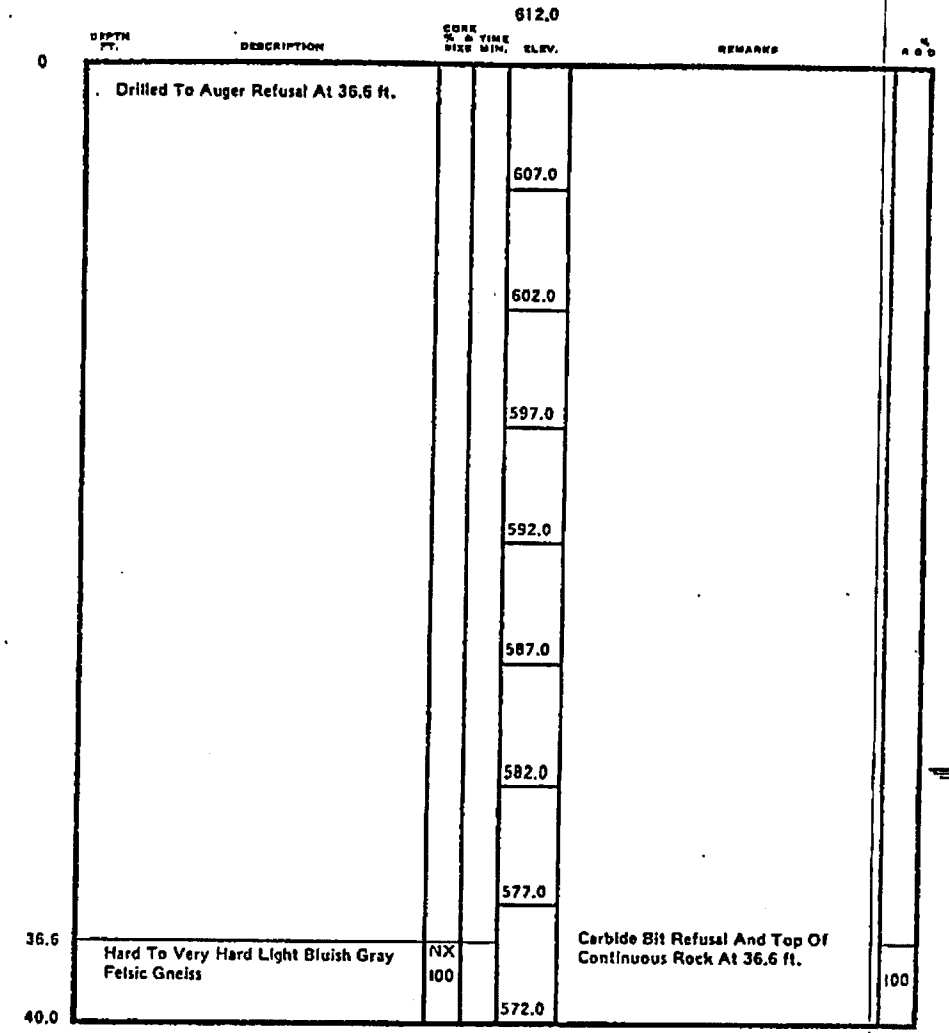
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-226
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

CORE UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-227
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

572.0

DEPTH FT.	DESCRIPTION	CORE & SIZE	% & TIME MIN.	ELEV.	REMARKS	% R Q D
0.0	Hard To Very Hard Light Bluish Gray Felsic Gneiss	NX 100		567.0	36.6 ft to 58.7 ft.: Very Slight Weathering. Close Healed Joints - Low To Steep Dip. Scattered Xenoliths Of Mafic Gneiss.	100
		100		562.0	Quartz Veins: ¼ Inch - Steep Dip - 37.2 ft. ¼ Inch - Steep Dip, Schistose Zone - 39.9 ft. 1 Inch- Steep Dip, Slightly Leached - 45.5 ft. to 45.9 ft. ¾ Inch - Steep Dip - 53.7 to 54.5 ft.	100
		100		557.0		100
7.7	Coring Terminated At 57.7 ft. Groundwater At 9.9 ft At Time Of Boring Hole Caved At 29.1 ft Before Taking 24 Hour Water Reading No Drilling Water Loss	100				100

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT: L = LOW DIP 0–30°
[30]: ROCK CORE RECOVERY — WATER TABLE, 1 HR. — M = MED DIP 30°–60°
N STANDARD PENETRATION — LOSS OF DRILLING WATER — S = STEEP DIP 60°–90°
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2

TEST BORING RECORD

BORING NO. B-227
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

651.5

DEPTH FT.	DESCRIPTION	CORE & SIZE	% & TIME MIN.	ELEV.	REMARKS	% R Q D
0	Drilled To Refusal At 90.3 ft.			646.5		
				561.5	Carbide Bit Refusal And Top Of Continuous Rock At 90.3 ft. 90.3 ft to 112.2 ft.: Slight To Very Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. Close And Very Close Joints - Low To Medium Dip. ¼ Inch Leached Steep Dip. Quartz Veins: 103.3 to 104.6 ft. 105.7 to 106.2 ft. Slightly Leached, Medium Dip, Mafic Schistose Zone (107.3 to 107.8 ft.)	
90.3	Hard To Very Hard Very Light Gray Felsic Gneiss	NX 100		556.5		83
		100		551.5		100
				546.5		
		100		541.5		90
112.2	Coring Terminated At 112.2 Groundwater At 55.6 ft At Time Of Boring Hole Caved At 55.0 ft Before Taking 24 Hour Water Reading No Drilling Water Loss			536.5		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

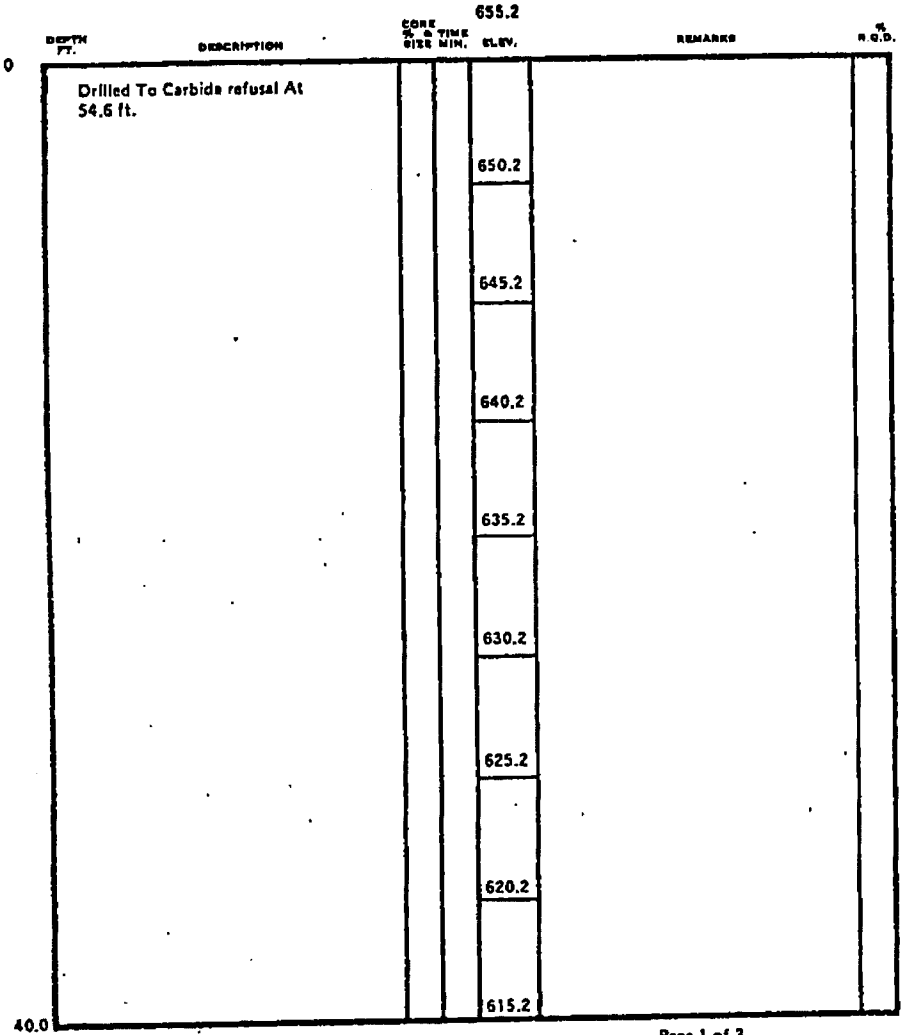
UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT: L = LOW DIP 0–30°
[30]: ROCK CORE RECOVERY — WATER TABLE, 1 HR. — M = MED. DIP 30°–60°
N STANDARD PENETRATION — LOSS OF DRILLING WATER — S = STEEP DIP 60°–90°
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 1

TEST BORING RECORD

BORING NO. B-228
DATE DRILLED 3-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

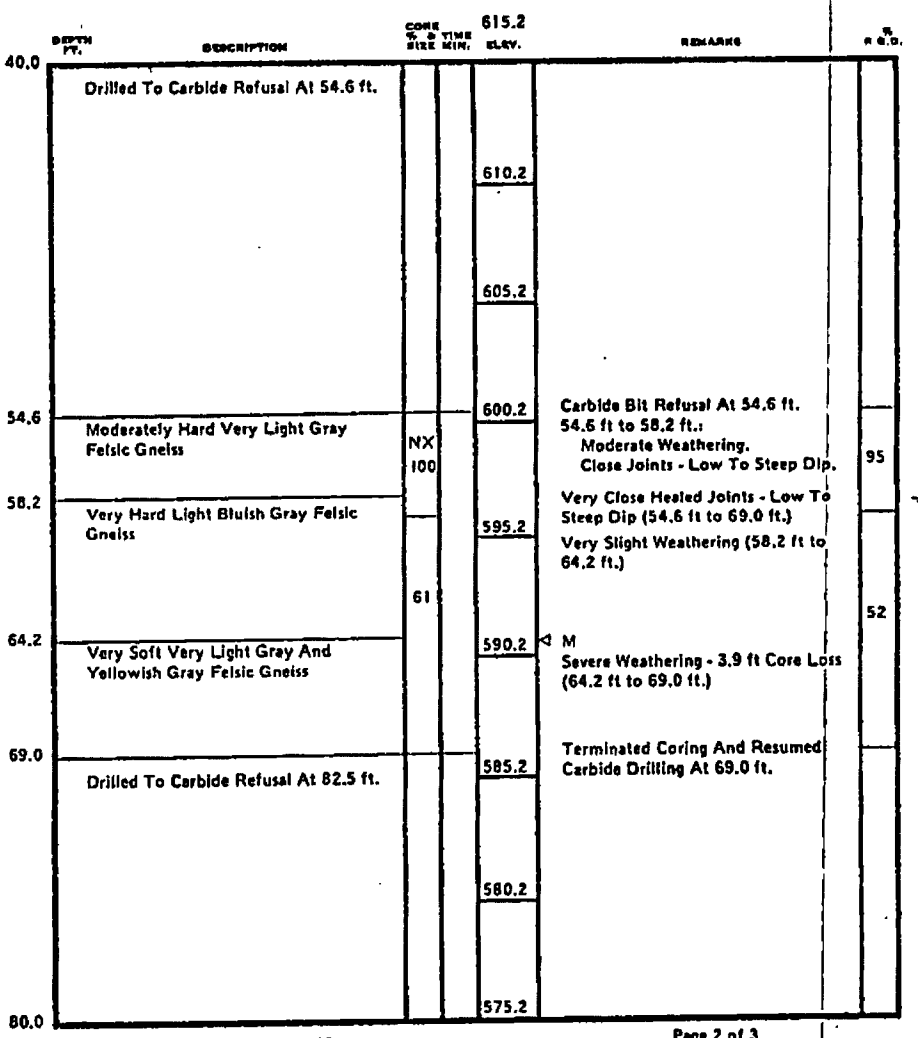
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-229
DATE DRILLED 3-21-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

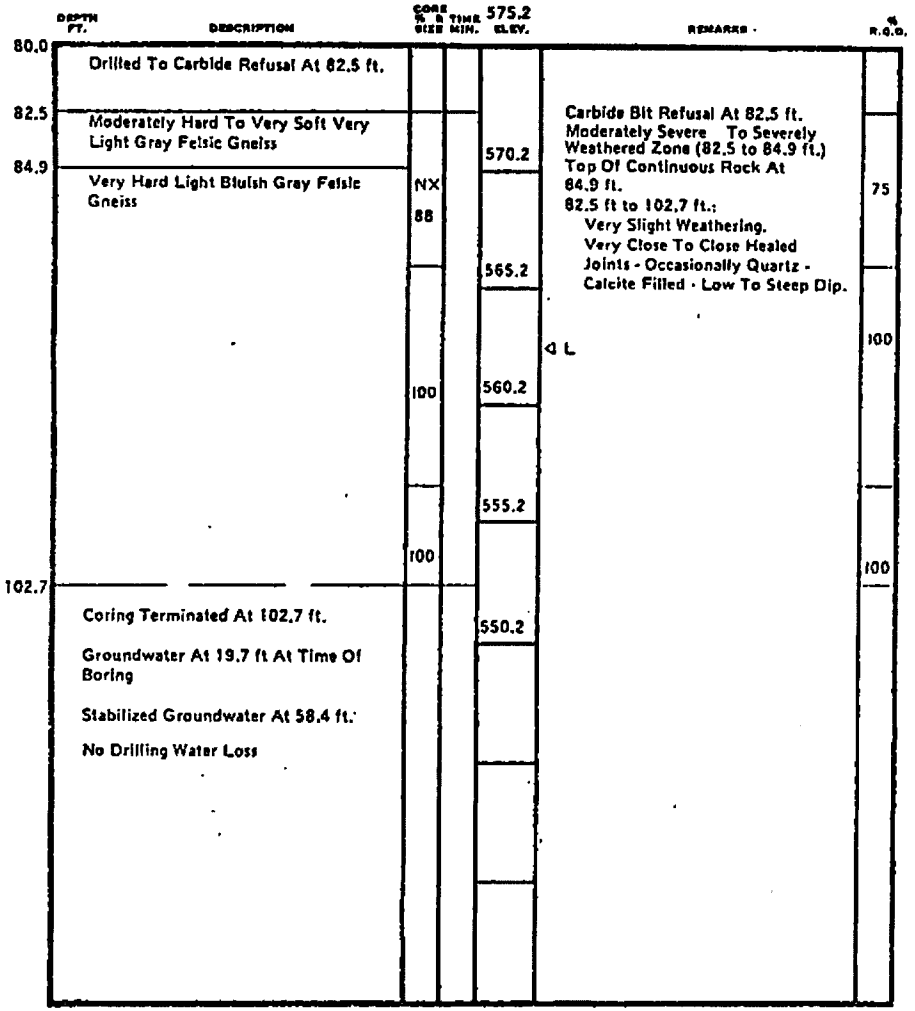
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-229
DATE DRILLED 3-21-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

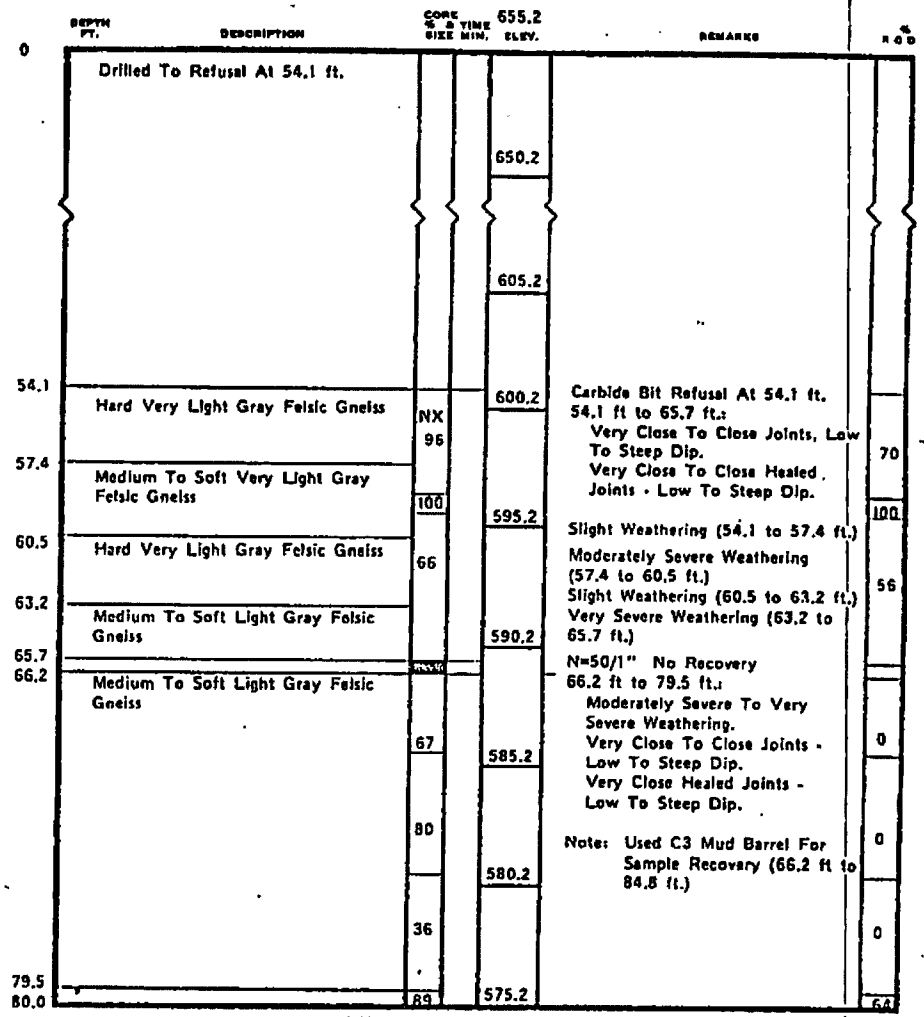
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-229
DATE DRILLED 3-21-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

* Hard To Moderately Hard Very Light Gray Felsic Gneiss

TEST BORING RECORD

BORING NO. B-229A
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

575.2

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	ELEV.	REMARKS	% R.Q.D.
80.0	Hard To Moderately Hard Very Light Gray Felsic Gneiss	NX	89		79.5 ft to 84.6 ft.: Slight To Moderate Weathering. Close Joints - Low Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip.	64
84.6	Hard To Very Hard Light Bluish Gray Felsic Gneiss		100	570.2	84.6 to 88.4 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip.	100
88.4	Coring Terminated At 88.4 ft.			565.2	Small Fine Grained Xenolith (85.2ft)	
	Groundwater At 46.6 ft At Time Of Boring				Abnormally Frequent Schistose Surface Along Healed Joints (54.1 to 88.4 ft.)	
	Stabilized Groundwater At 56.8 ft.					
	No Drilling Water Loss					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:
50/1" ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–20°
N STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 20°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-229A
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

642.9

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Drilled To Refusal At 68.3 ft.			637.9		44.2
				592.9		
				587.9		
				582.9	Very Close To Close Joints, Low To Medium Dip (68.3 ft to 75.6 ft.)	
				577.9		
68.3	Moderately Hard To Hard Medium Light Gray Mafic Gneiss	NX		572.9	Carbide Bit Refusal And Top Of Continuous Rock At 68.3 ft. 68.3 ft to 88.0 ft.: Slight To Very Slight Weathering. Very Close To Close Healed And Calcite And Chlorite Filled Joints, Low To Steep Dip.	64
			100			
			100	567.9	Moderately Weathered Zones With Close Low To Medium Dip Joints: M 58.6 ft to 69.1 ft. L 70.1 ft to 70.3 ft. At 72.6 ft. 75.4 ft to 75.6 ft.	55
			100			88
80.0			100	562.9		100

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

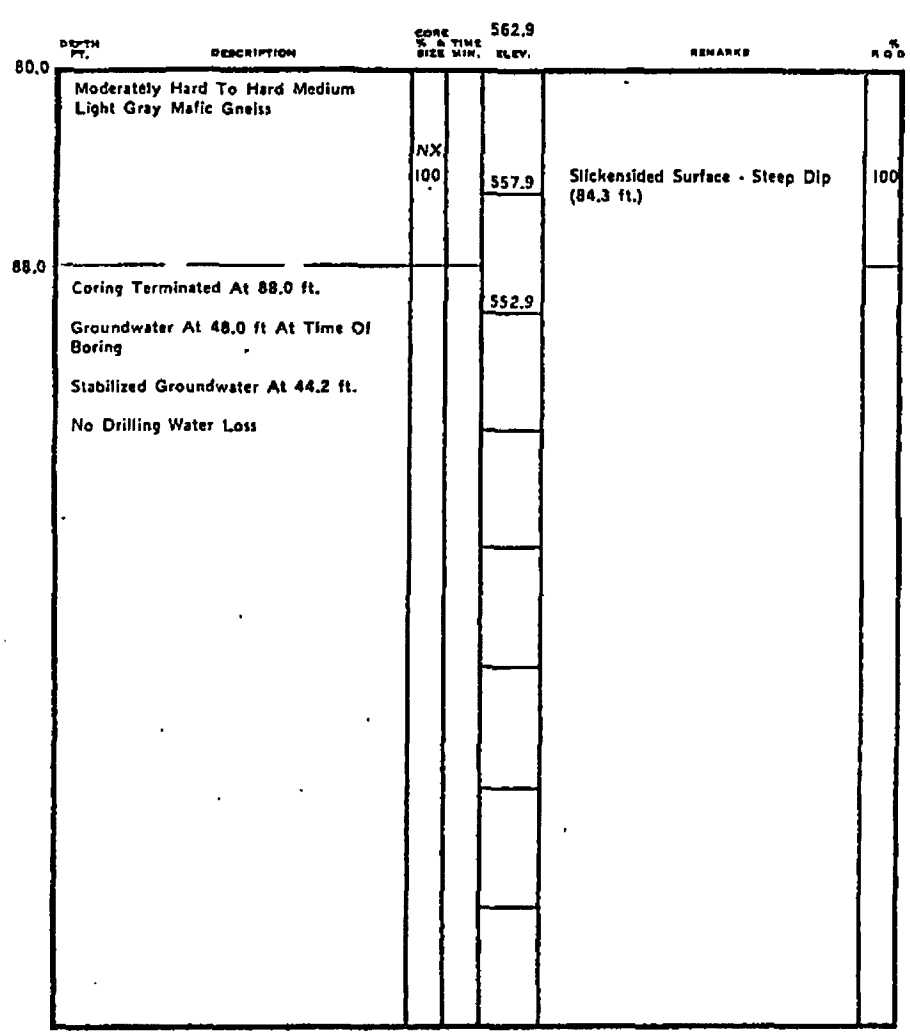
UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT.
50/1" ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–20°
N STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 20°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-230
DATE DRILLED 2-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

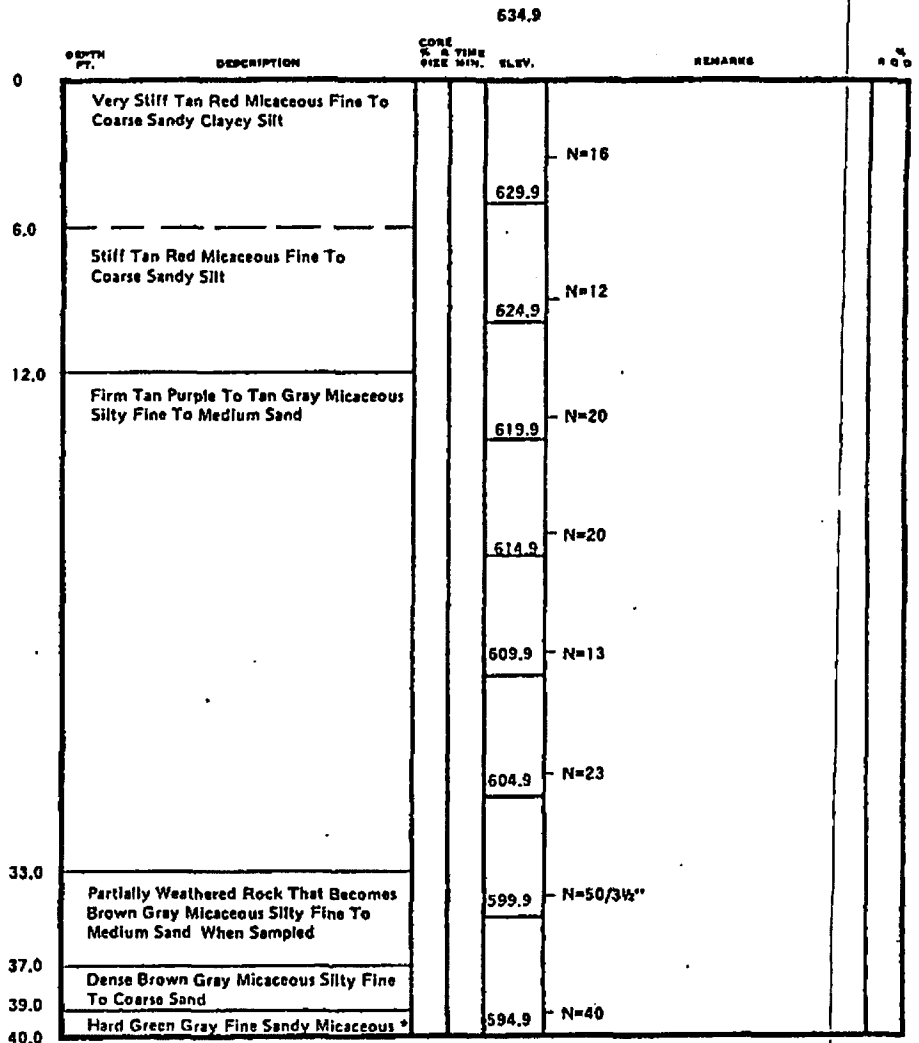
ROCK JOINTS
L = LOW DIP 0-30°
M = MED DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-230
DATE DRILLED 3-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0-30°
M = MED DIP 30°-60°
S = STEEP DIP 60°-90°

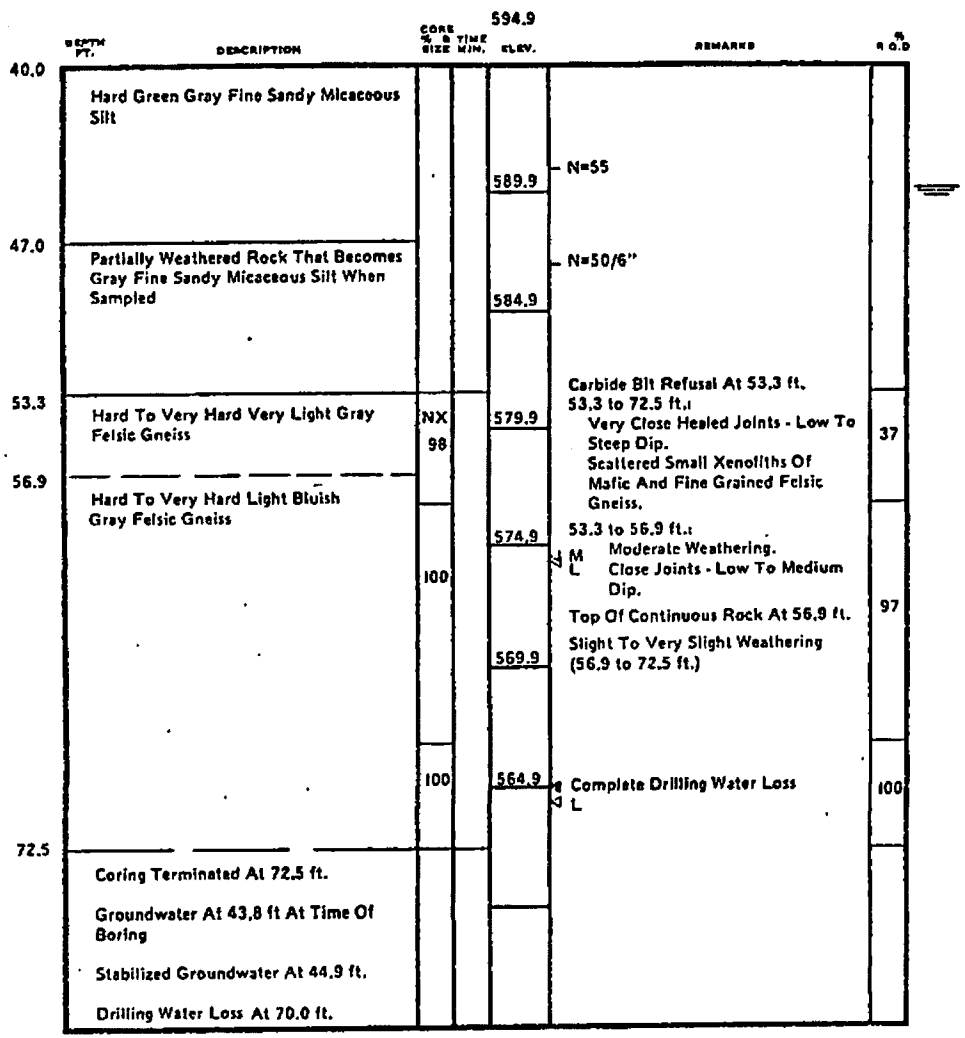
* Silt

Page 1 of 2

TEST BORING RECORD

BORING NO. B-231
DATE DRILLED 3-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

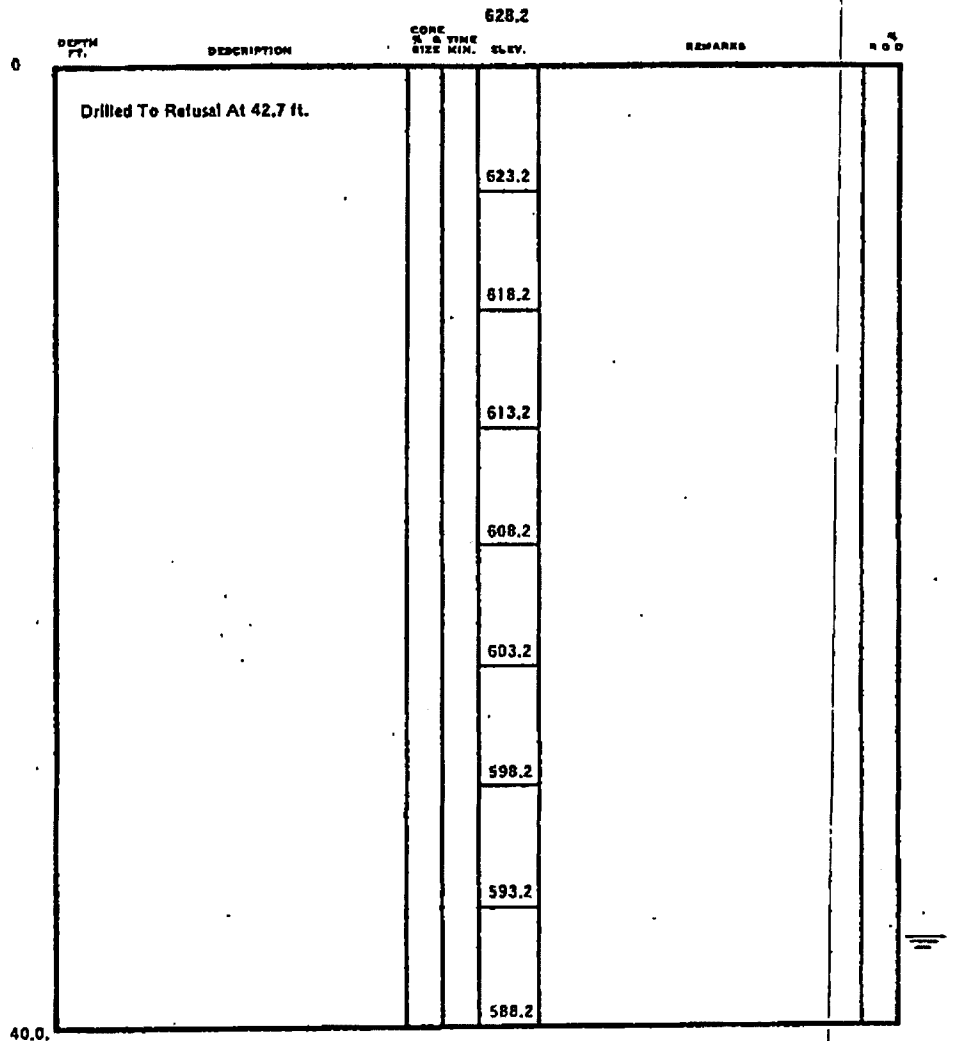
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-231
DATE DRILLED 3-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

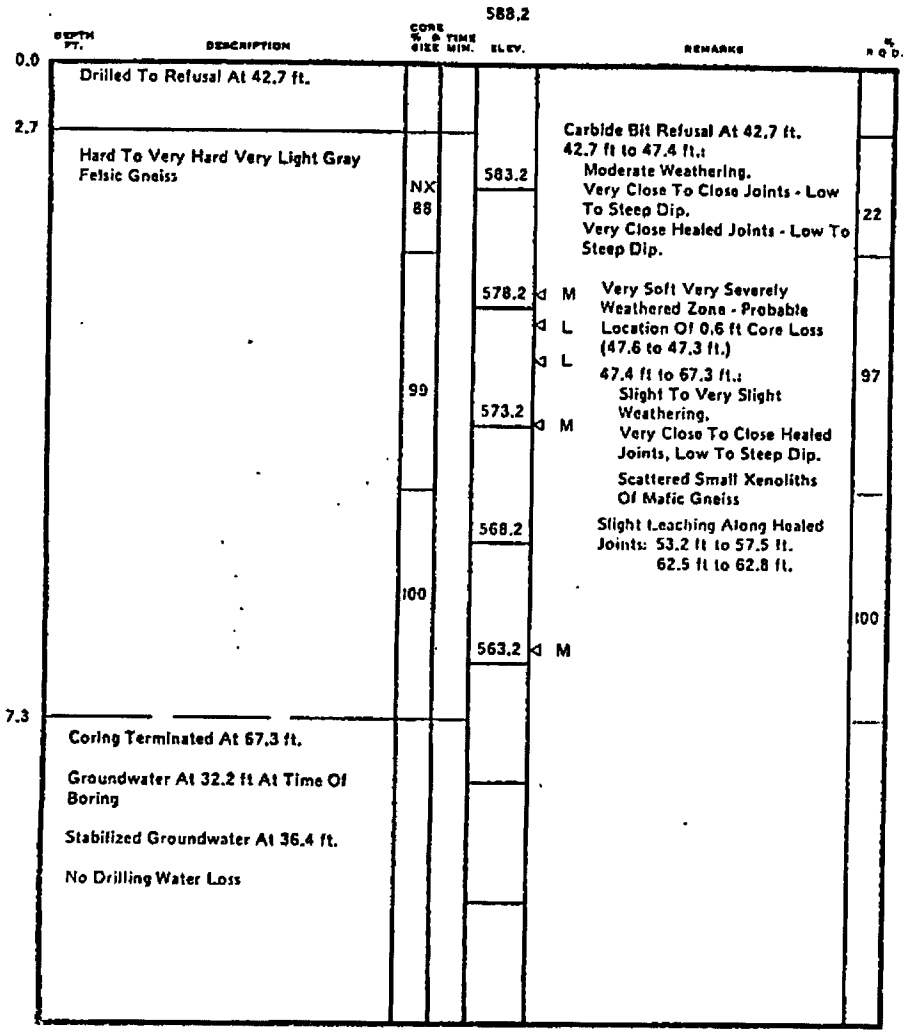
ROCK JOINTS:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-232
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

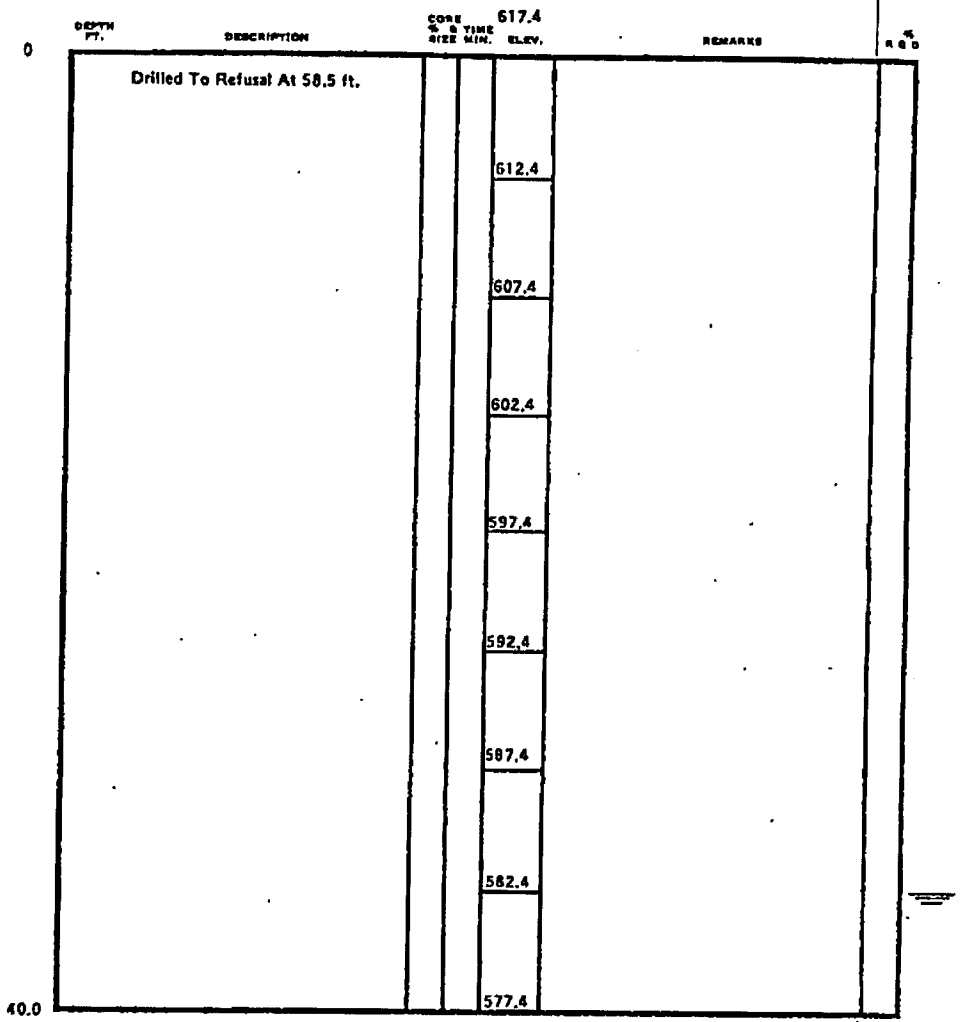
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-232
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

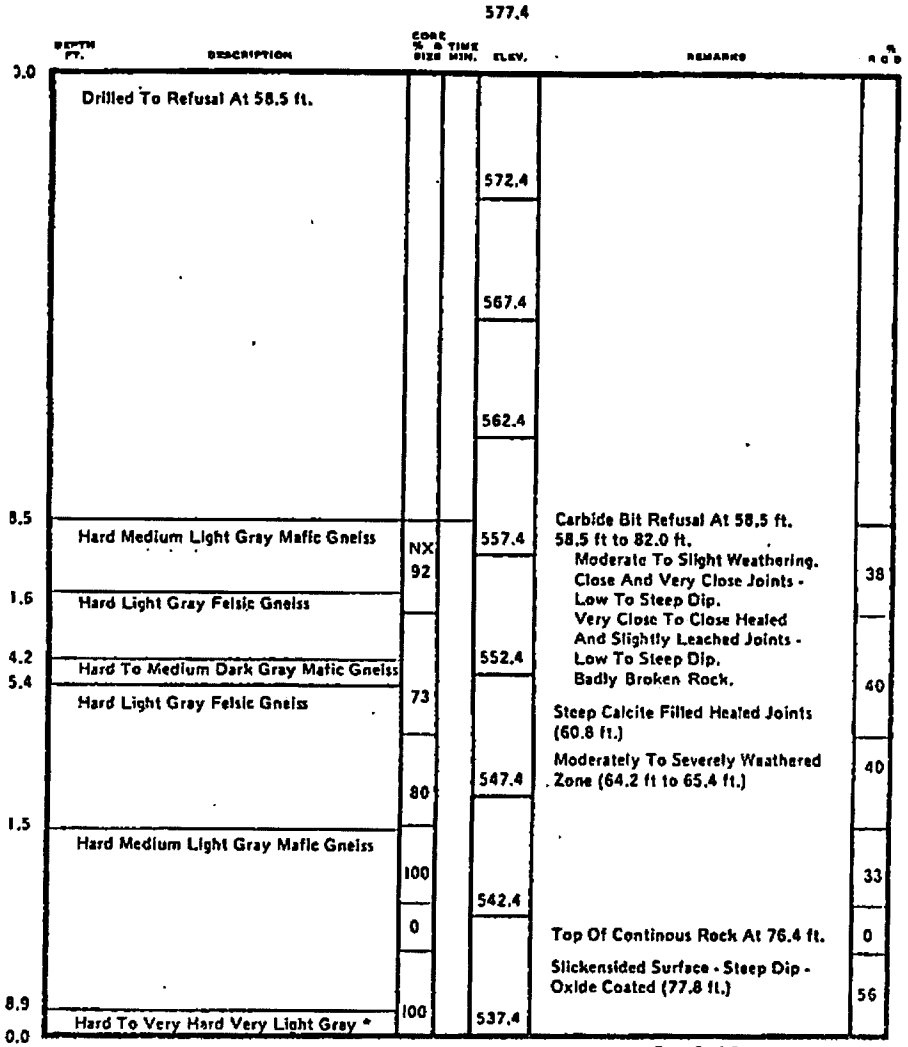
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-233
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

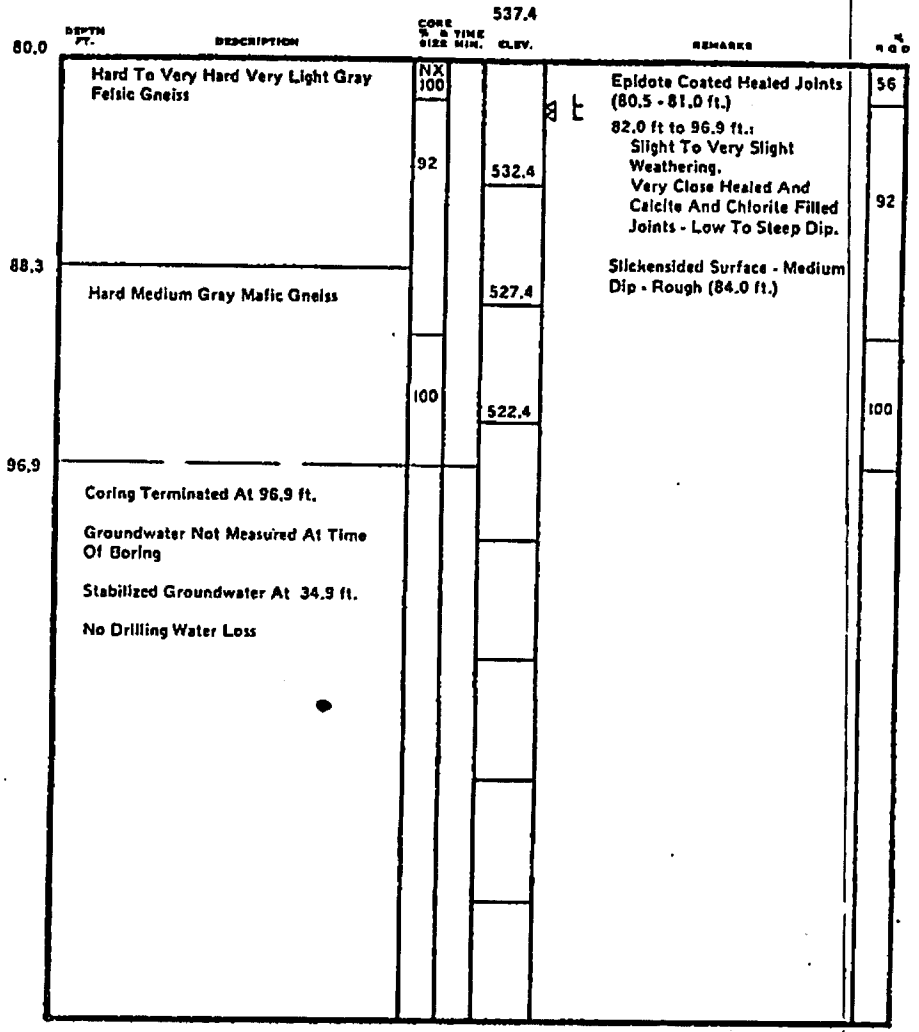
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

* Felsic Gneiss

TEST BORING RECORD

BORING NO. B-233
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

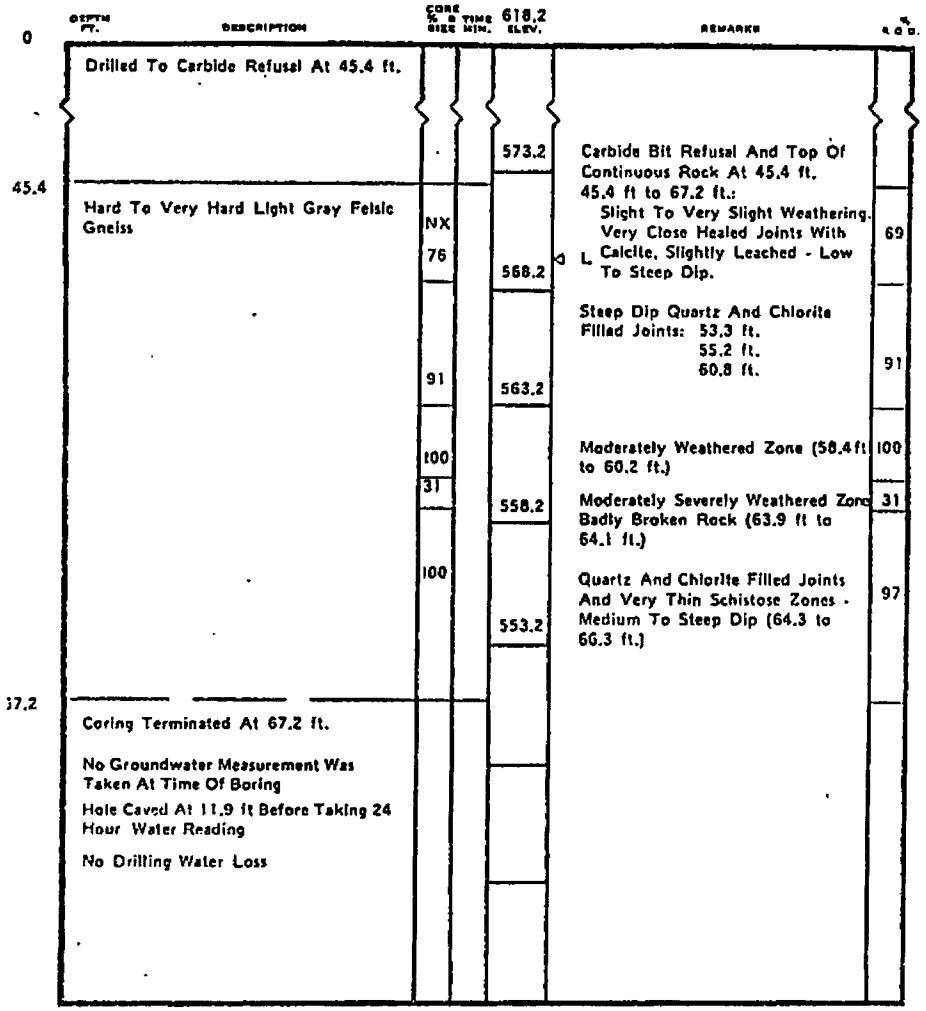
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-233
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

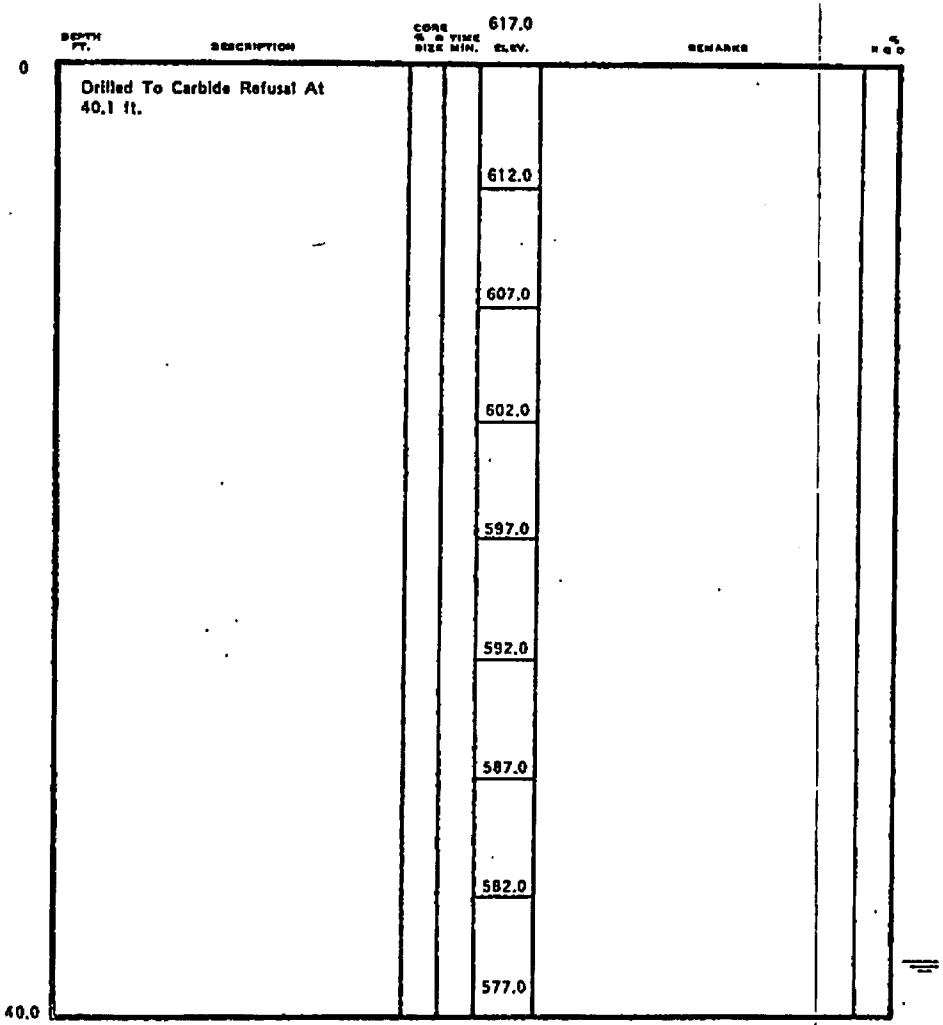
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-234
DATE DRILLED 4-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

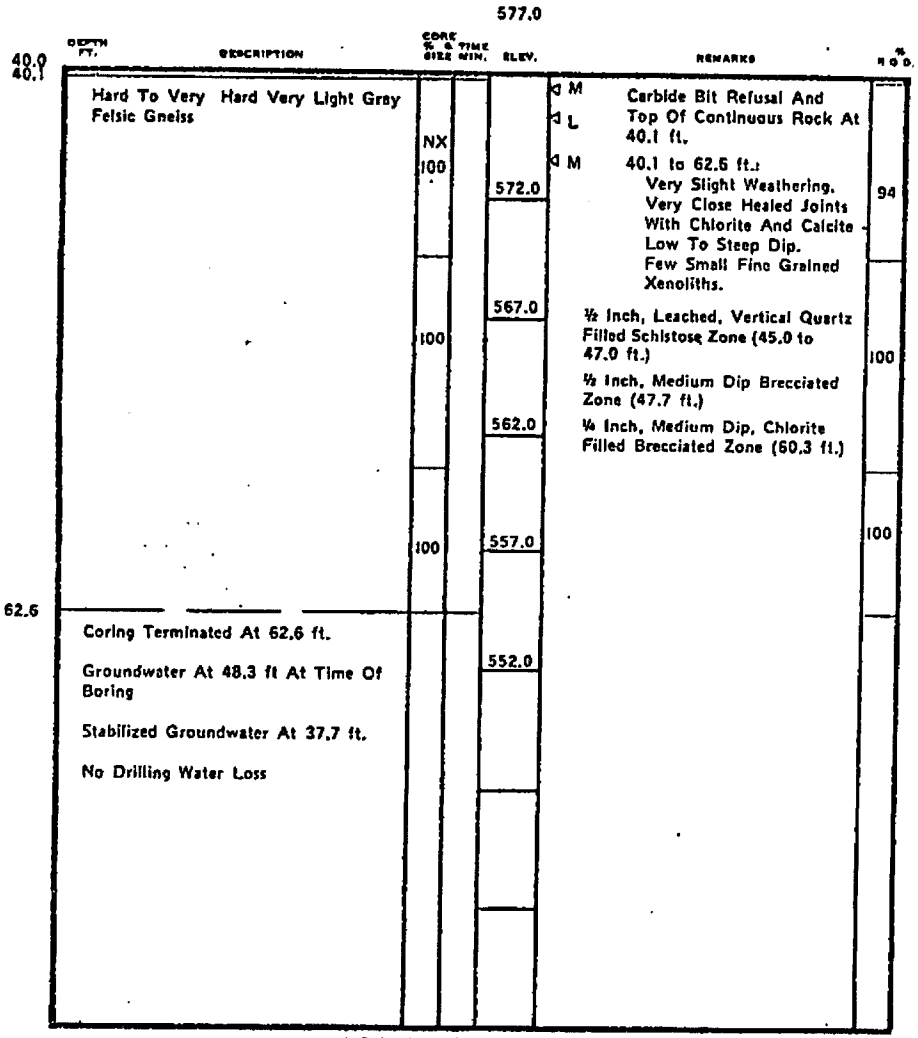
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-235
DATE DRILLED 4-4-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



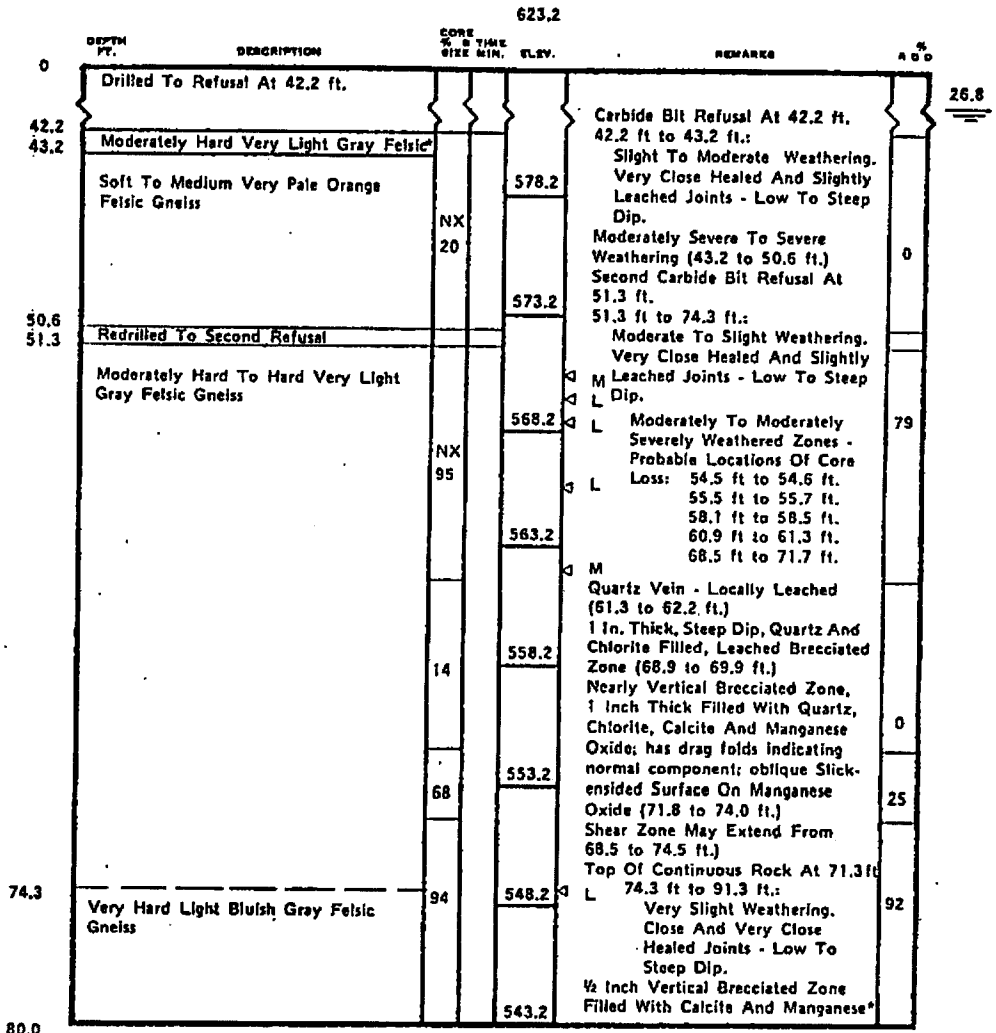
BORING AND SAMPLING MEETS ASTM D-1586 * Drilled To Carbide Refusal At 40.1 ft.
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–20° M = MED. DIP 20°–50° S = STEEP DIP 50°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-235
DATE DRILLED 4-4-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



26.8

BORING AND SAMPLING MEETS ASTM D-1586 * Gneiss
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–20° M = MED. DIP 20°–50° S = STEEP DIP 50°–90°

* Oxide (76.4 to 77.0 ft.) Sericite Rich (78.0 to 80.5 ft.)

Page 1 of 2

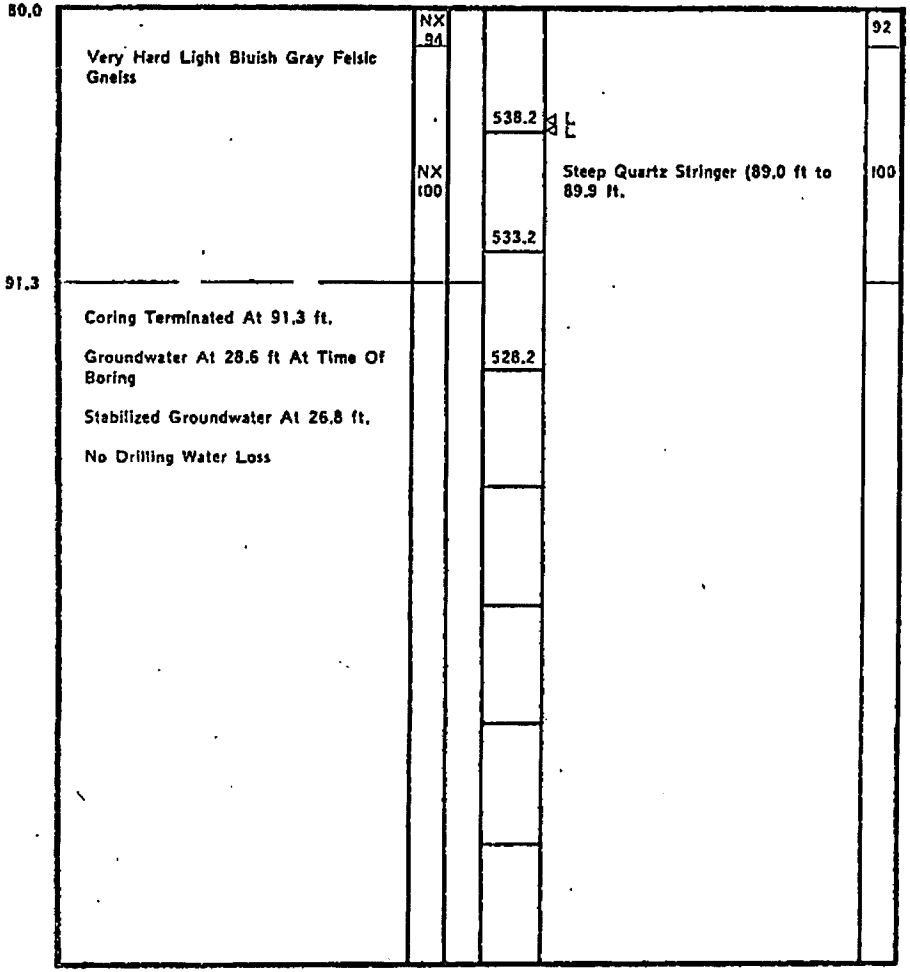
TEST BORING RECORD

BORING NO. B-236
DATE DRILLED 4-9-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

543.2

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R Q D
80.0	Very Hard Light Bluish Gray Felsic Gneiss	NX 94		538.2	L	92
		NX 100			Steep Quartz Stringer (89.0 ft to 89.9 ft.	100
				533.2		
91.3	Coring Terminated At 91.3 ft.					
	Groundwater At 28.6 ft At Time Of Boring			528.2		
	Stabilized Groundwater At 26.8 ft.					
	No Drilling Water Loss					



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–50°
S = STEEP DIP 50°–90°

Page 2 of 2

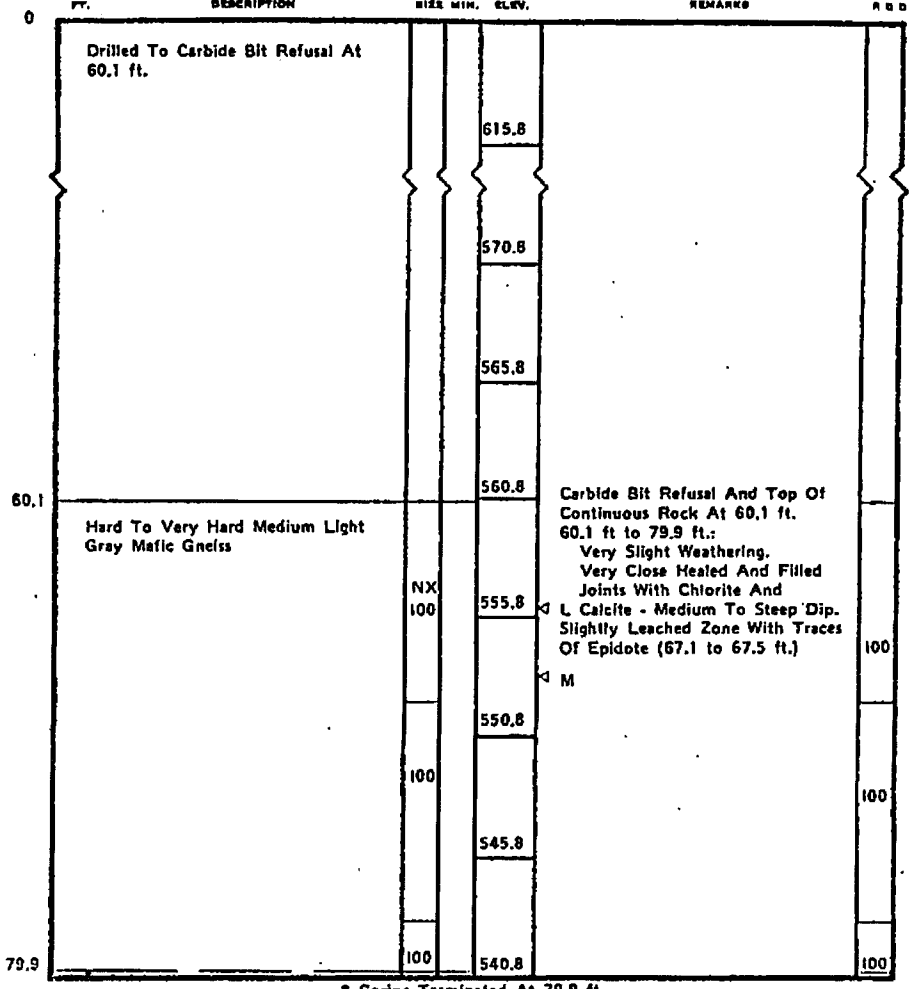
TEST BORING RECORD

BORING NO. B-236
DATE DRILLED 4-9-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

620.8

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R Q D
0	Drilled To Carbide Bit Refusal At 60.1 ft.			615.8		
				570.8		
				565.8		
60.1	Hard To Very Hard Medium Light Gray Mafic Gneiss			560.8	Carbide Bit Refusal And Top Of Continuous Rock At 60.1 ft. 60.1 ft to 79.9 ft.: Very Slight Weathering. Very Close Healed And Filled Joints With Chlorite And L Calcite - Medium To Steep Dip. Slightly Leached Zone With Traces Of Epidote (67.1 to 67.5 ft.)	
		NX 100		555.8	M	100
				550.8		
		100				100
				545.8		
		100		540.8		100
79.9						



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–50°
S = STEEP DIP 50°–90°

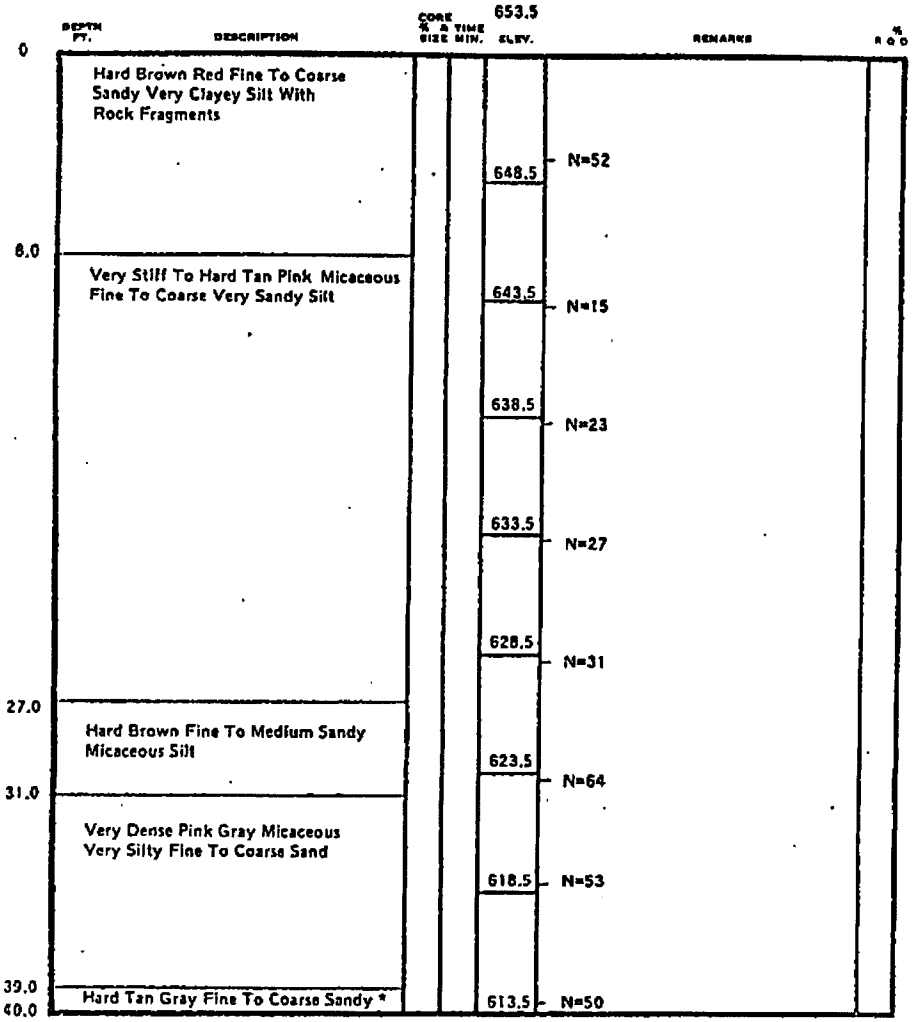
* Coring Terminated At 79.9 ft.
Groundwater At 42.0 ft At Time Of Boring
Stabilized Groundwater At 40.8 ft.
No Drilling Water Loss

Page 1 of 1

TEST BORING RECORD

BORING NO. B-237
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

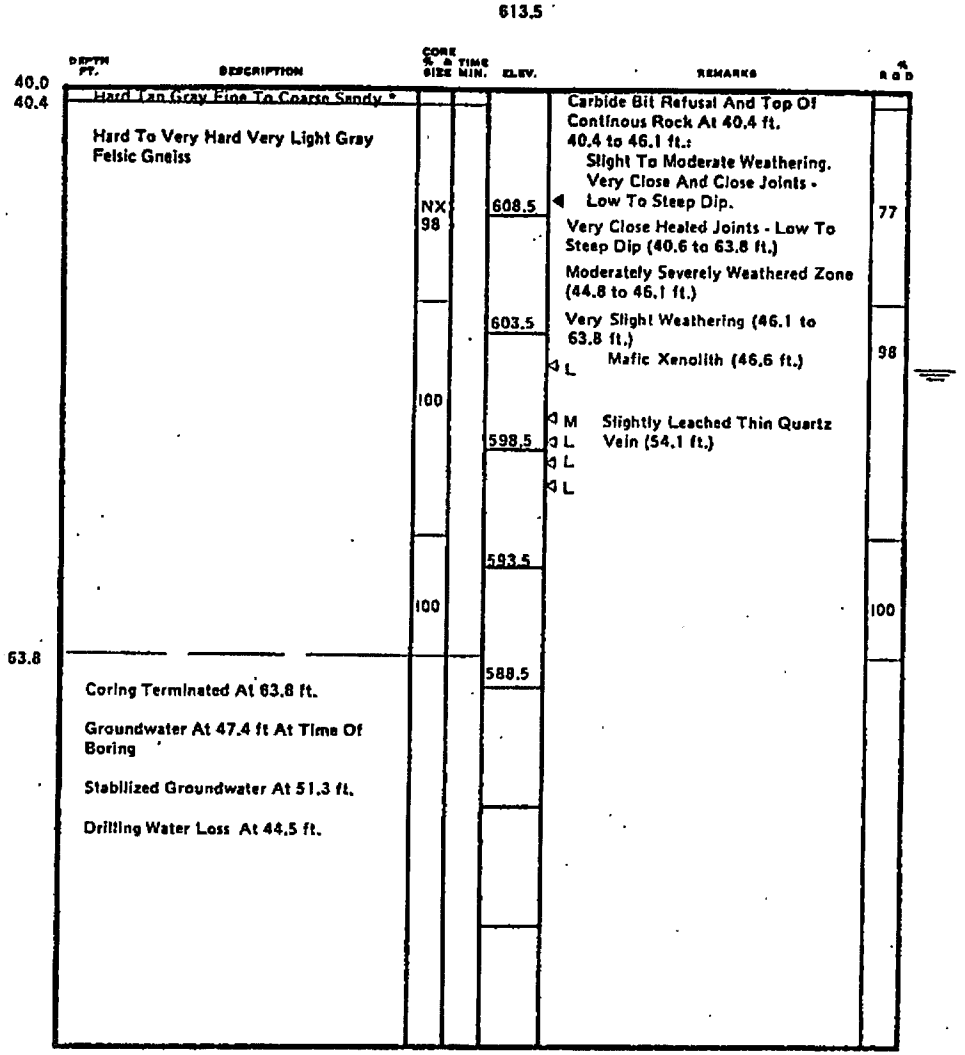
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

* Micaceous Silt

TEST BORING RECORD

BORING NO. B-238
DATE DRILLED 3-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

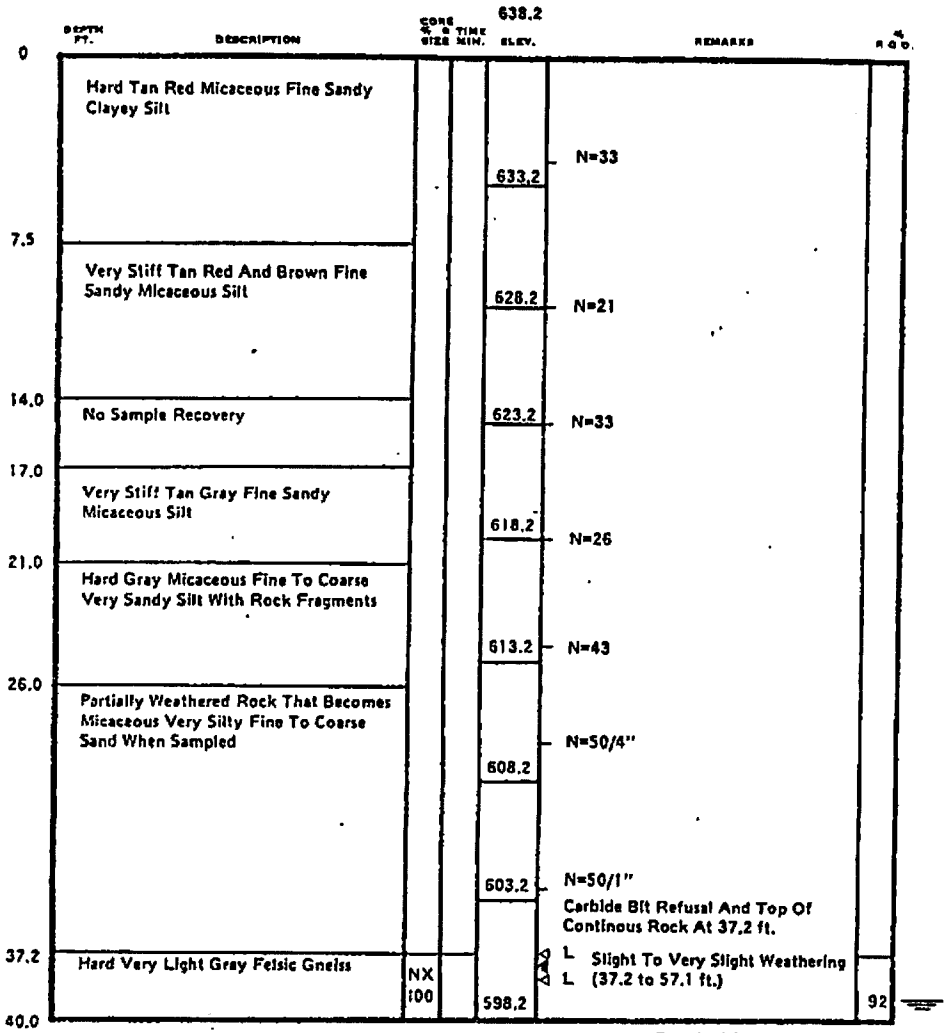
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

* Micaceous Silt

TEST BORING RECORD

BORING NO. B-238
DATE DRILLED 3-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

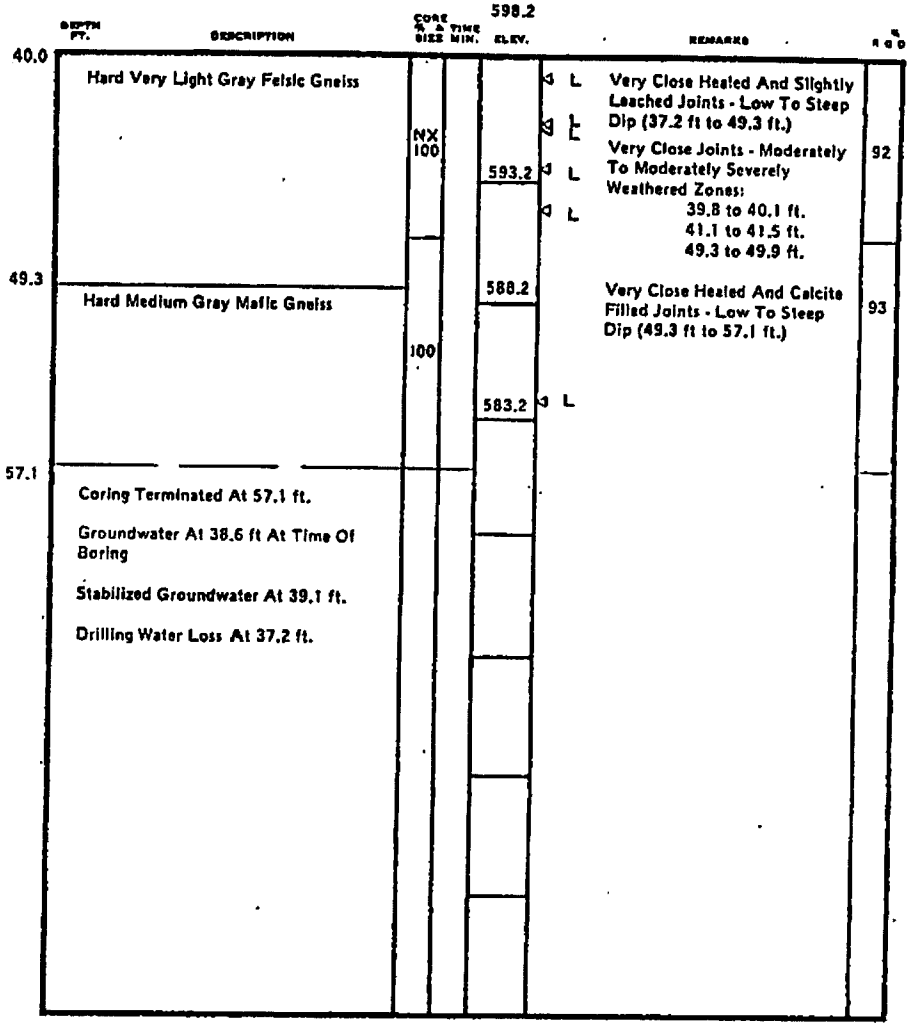
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-239
DATE DRILLED 3-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

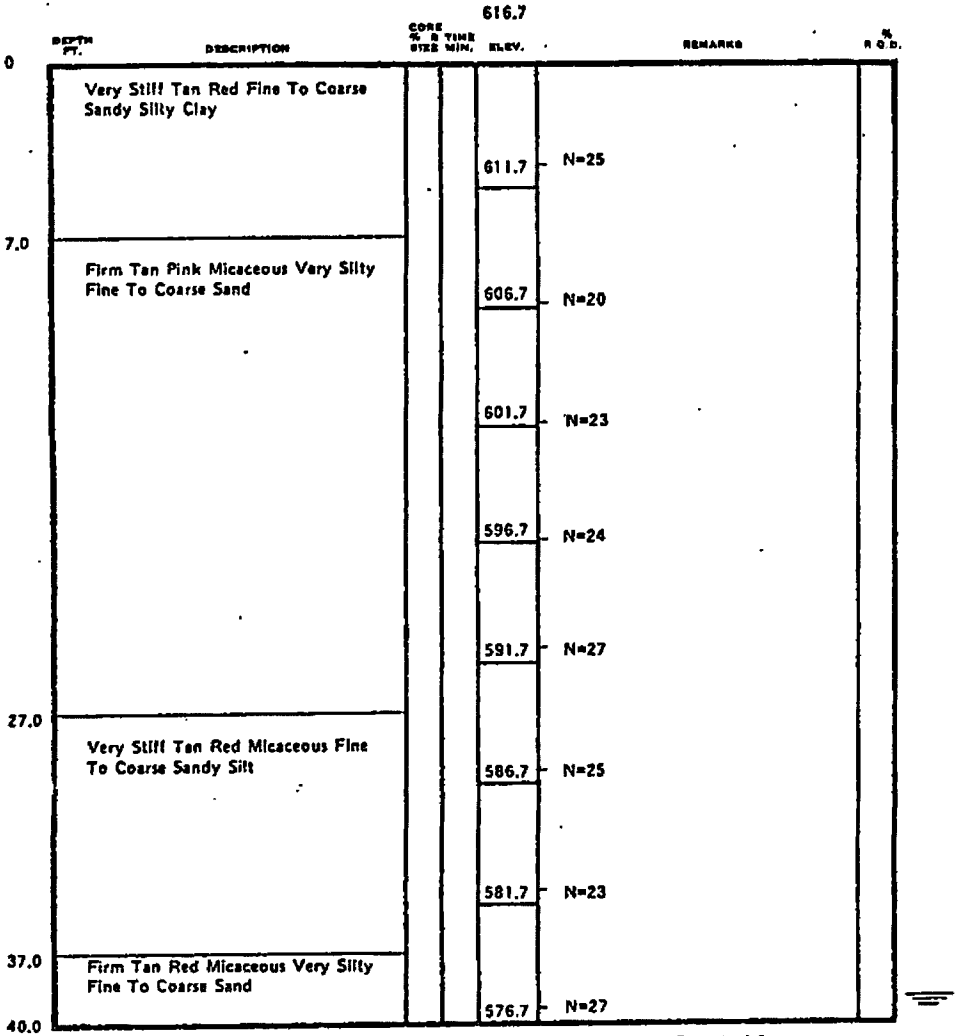
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-239
DATE DRILLED 3-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

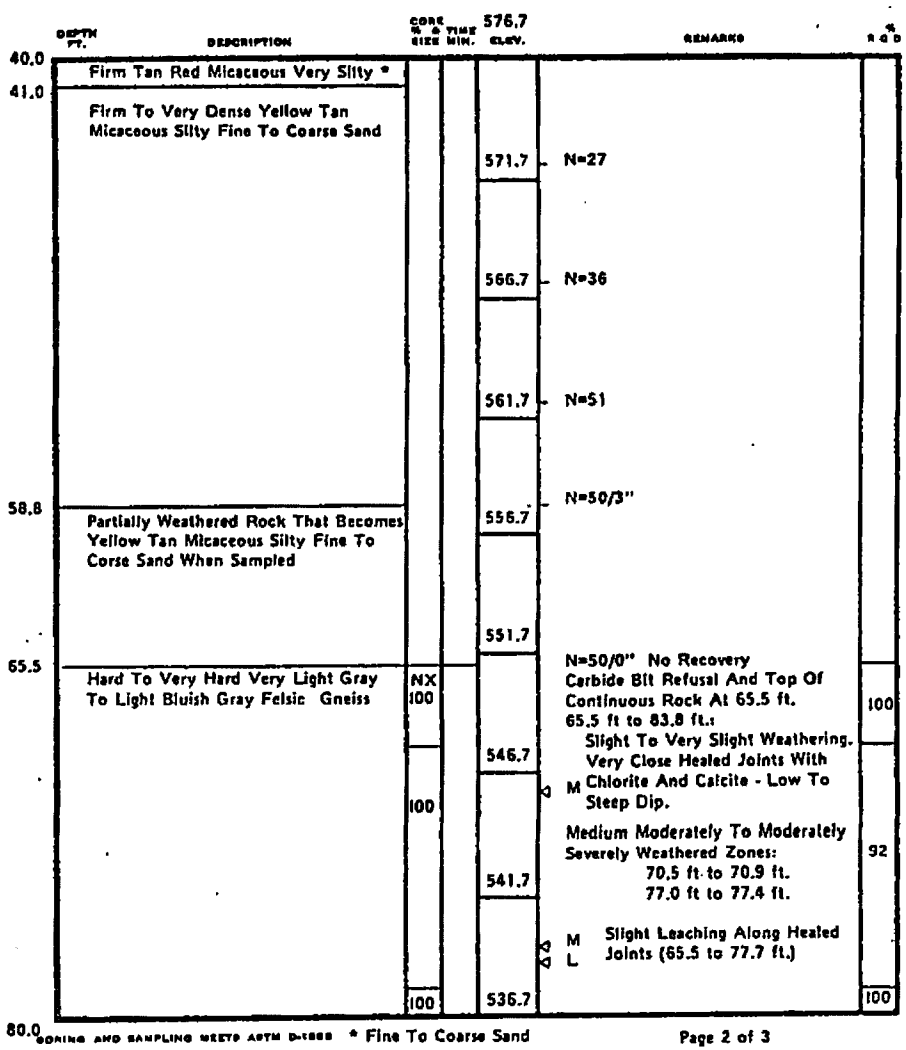
ROCK JOINT:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-240
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

* Fine To Coarse Sand

ROCK JOINT:
L = LOW DIP 0-20°
M = MED. DIP 20°-60°
S = STEEP DIP 60°-90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-240
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

536.7

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
80.0	Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss	NX	100			100
83.8	Coring Terminated At 83.8 ft.			531.7		
	Groundwater At 39.5 ft At Time Of Boring					
	Stabilized Groundwater At 38.9 ft.					
	No Drilling Water Loss					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-240
DATE DRILLED 4-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

624.8

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Very Stiff Tan Red Fine Sandy Silty Clay			619.8	N=16	
5.0	Stiff And Very Stiff Brown Tan Fine Sandy To Very Sandy Micaceous Silt			614.8	N=13	
				609.8	N=10	
				604.8	N=12	
				599.8	N=19	
				594.8	N=10	
				589.8	N=15	
37.0	Hard Tan Brown Fine Sandy Micaceous Silt			584.8	N=71	
40.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

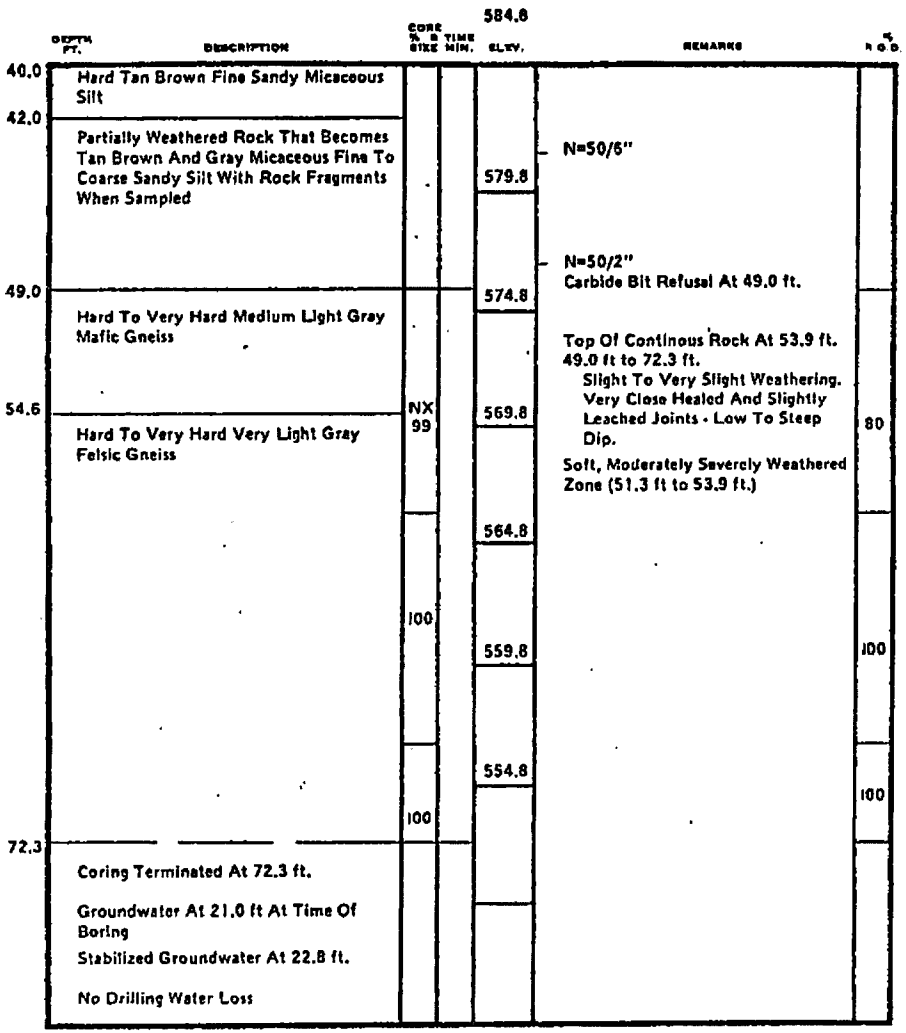
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-241
DATE DRILLED 3-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

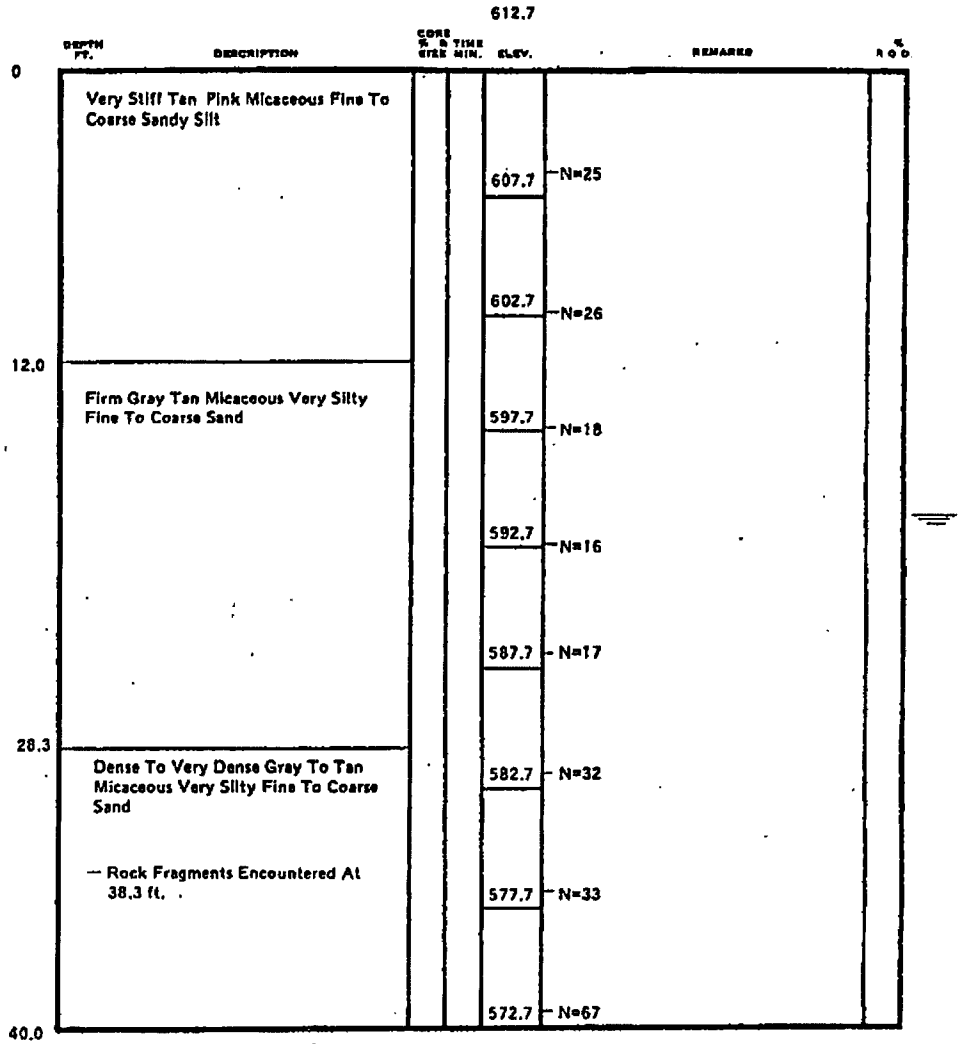
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-241
DATE DRILLED 2-27-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1 ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

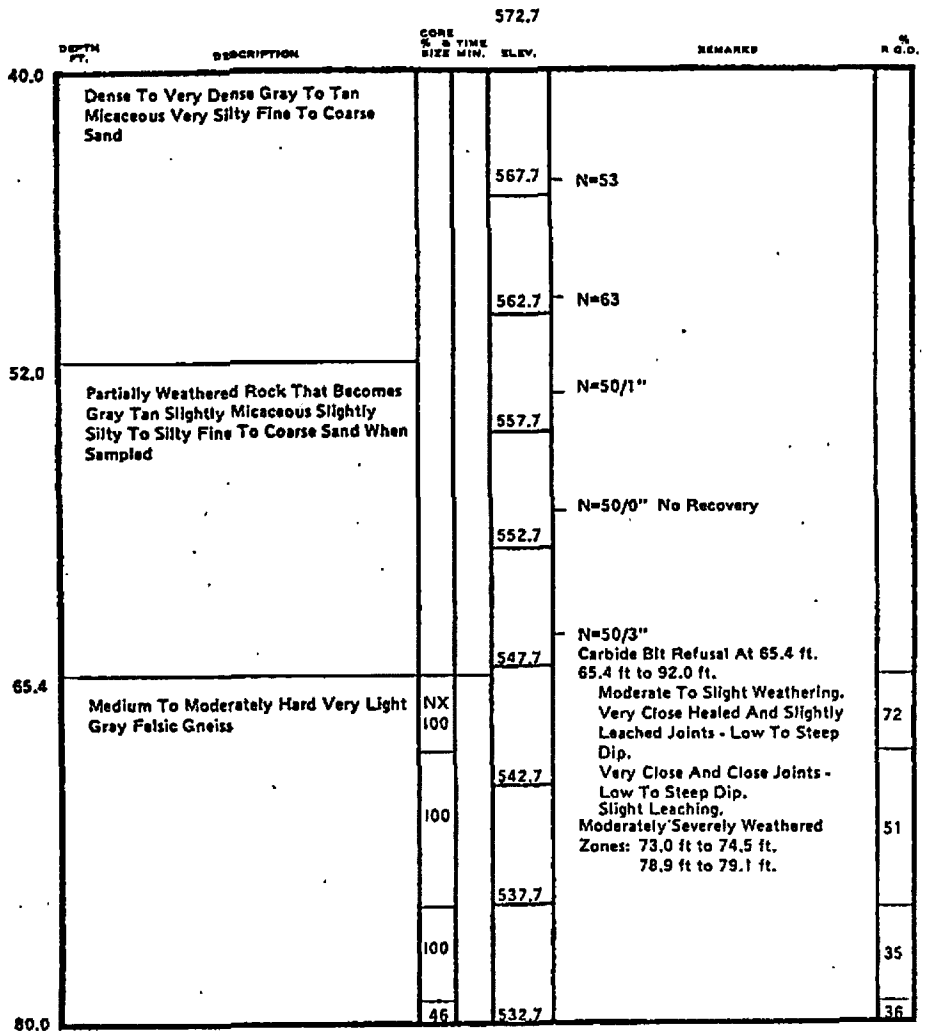
ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-242
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

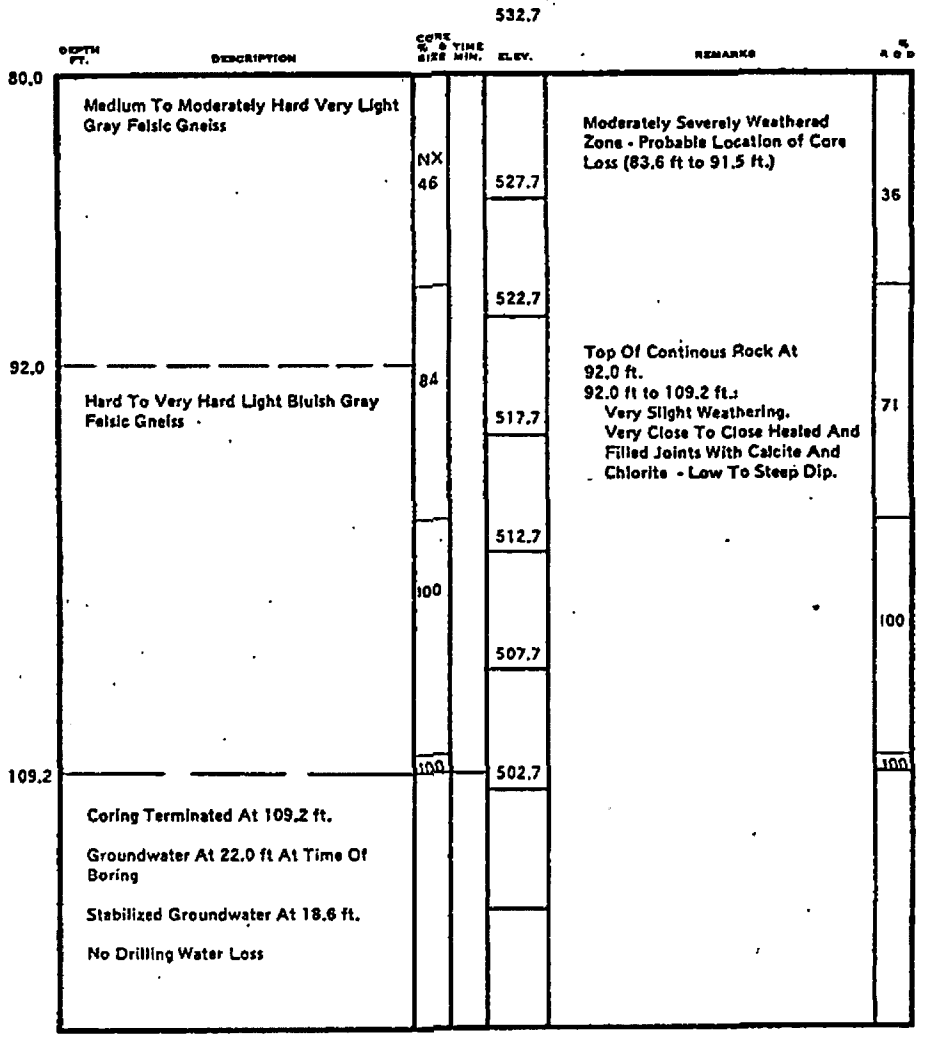
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–50°
S = STEEP DIP 50°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-242
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

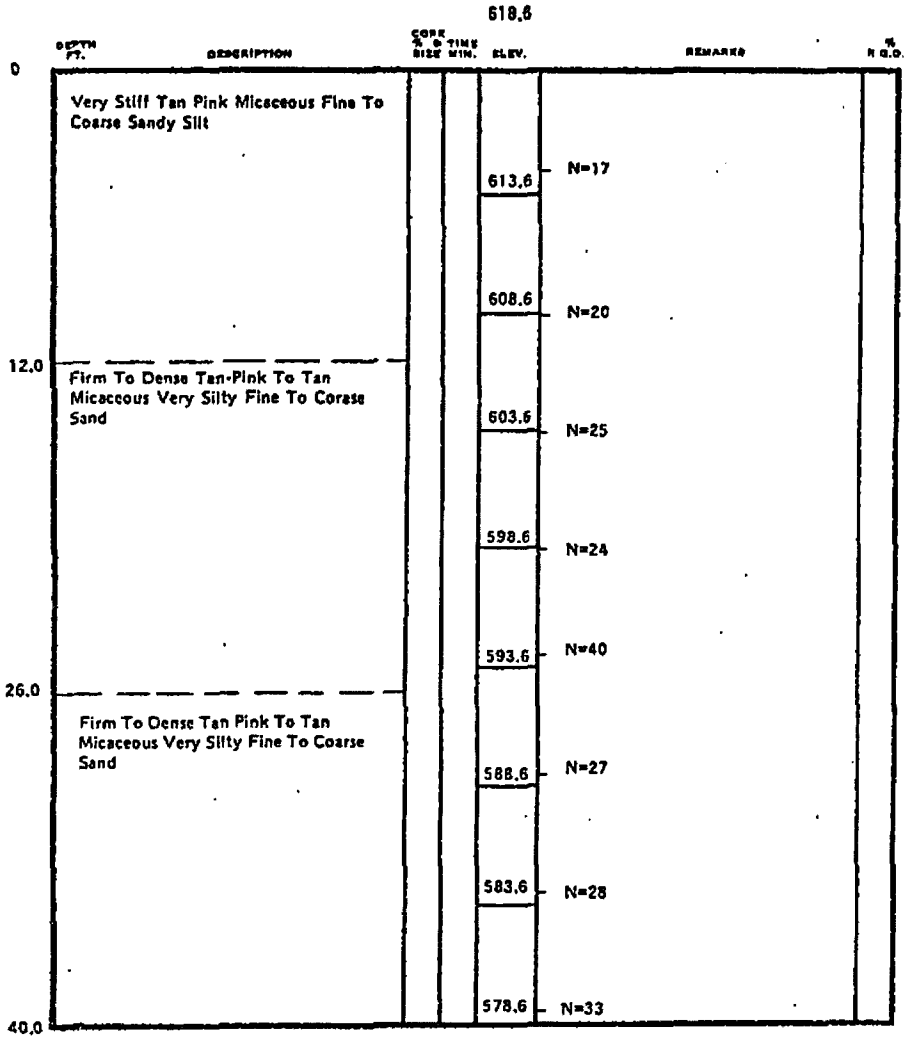
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–50°
S = STEEP DIP 50°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-242
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

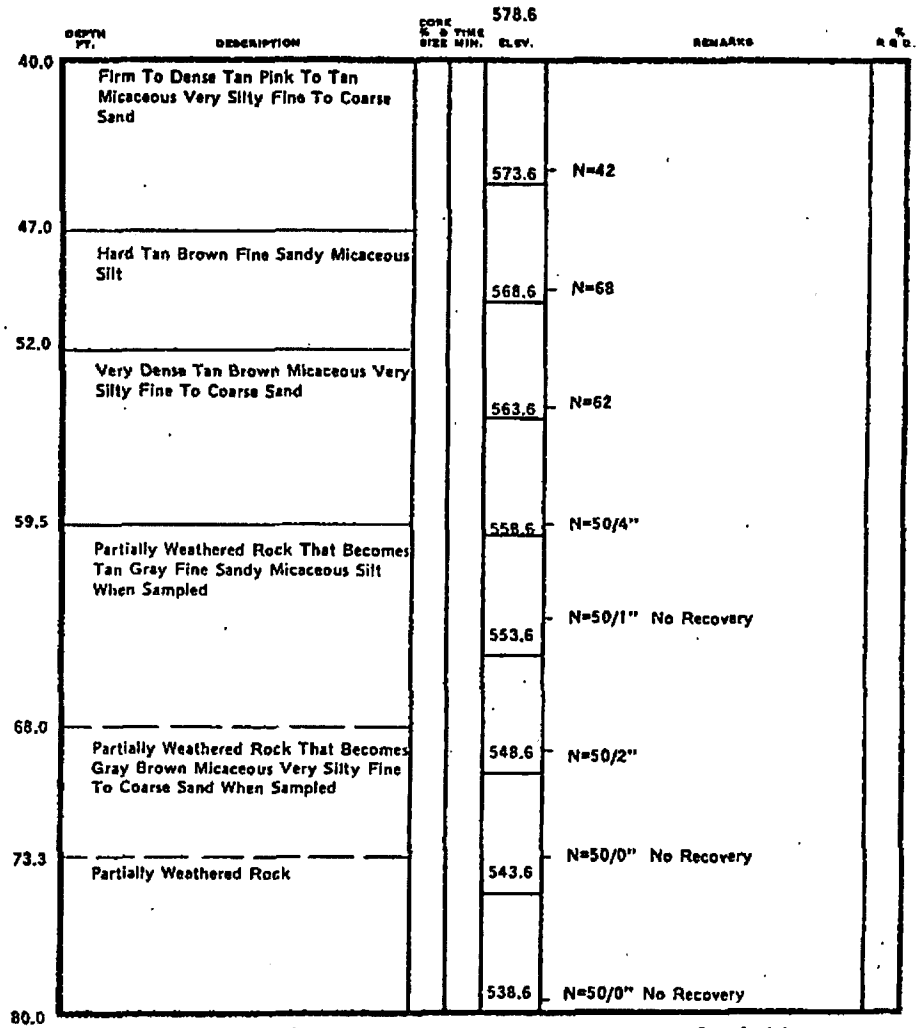
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-243
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

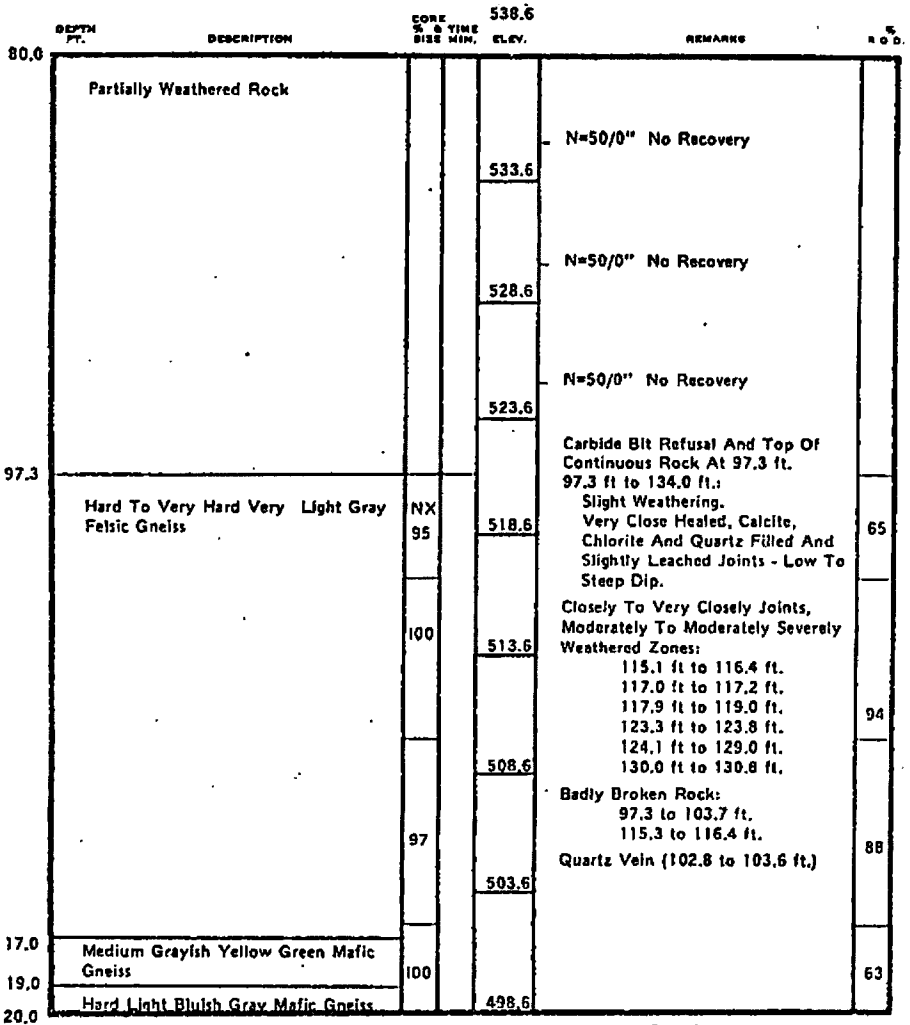
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-243
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1" ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

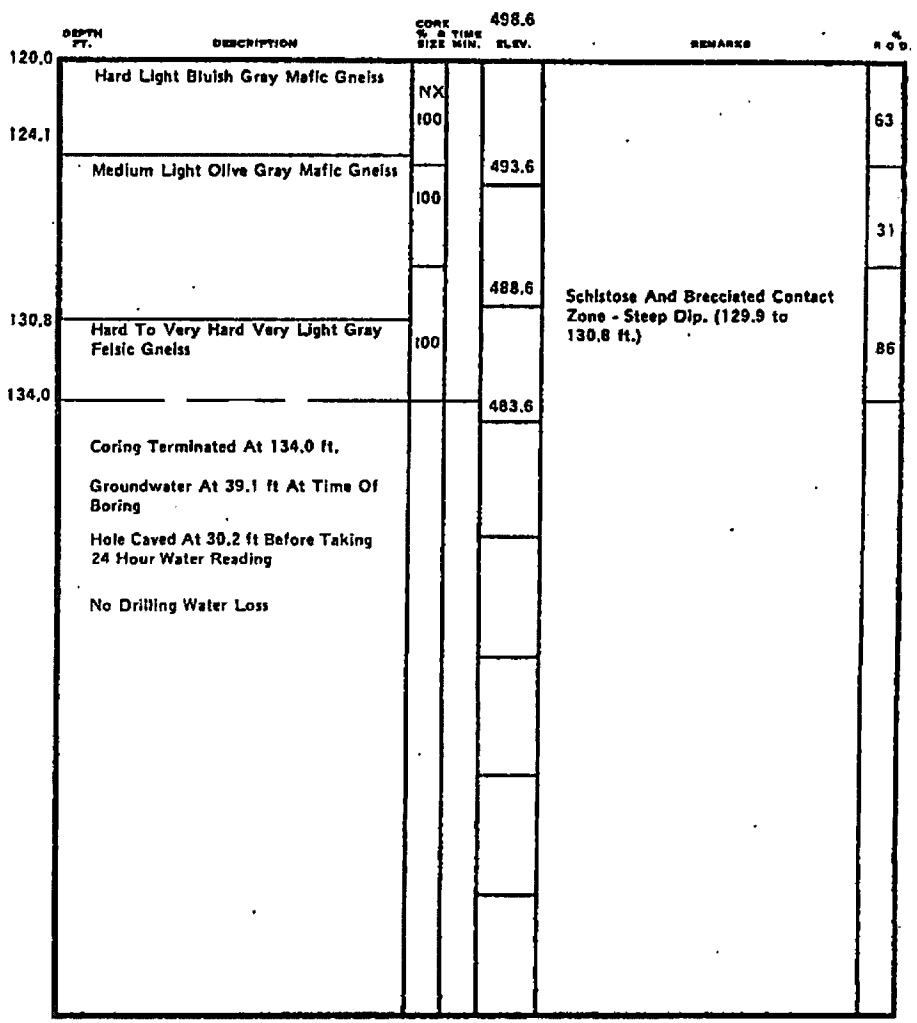
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-243
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
1" ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

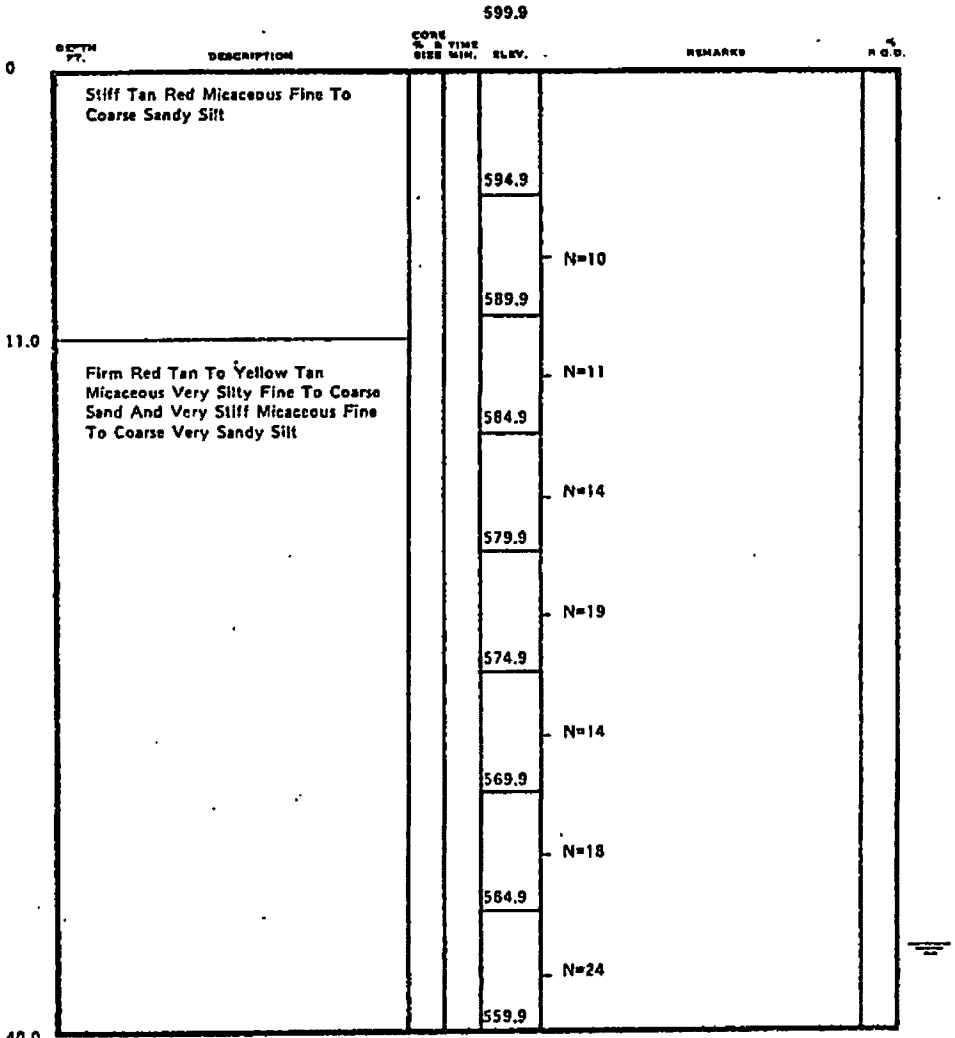
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-243
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

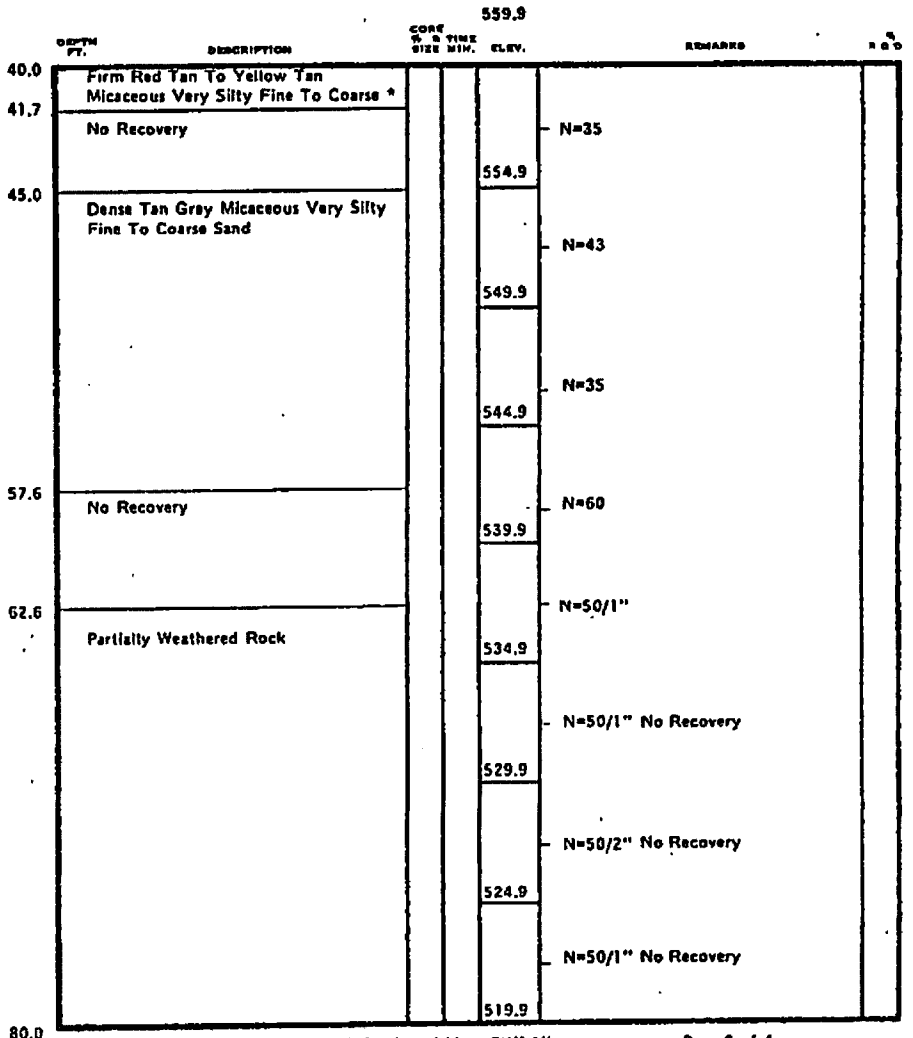
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-50°
M = MED. DIP 50°-80°
S = STEEP DIP 80°-90°

TEST BORING RECORD

BORING NO. B-244
DATE DRILLED 4-12-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

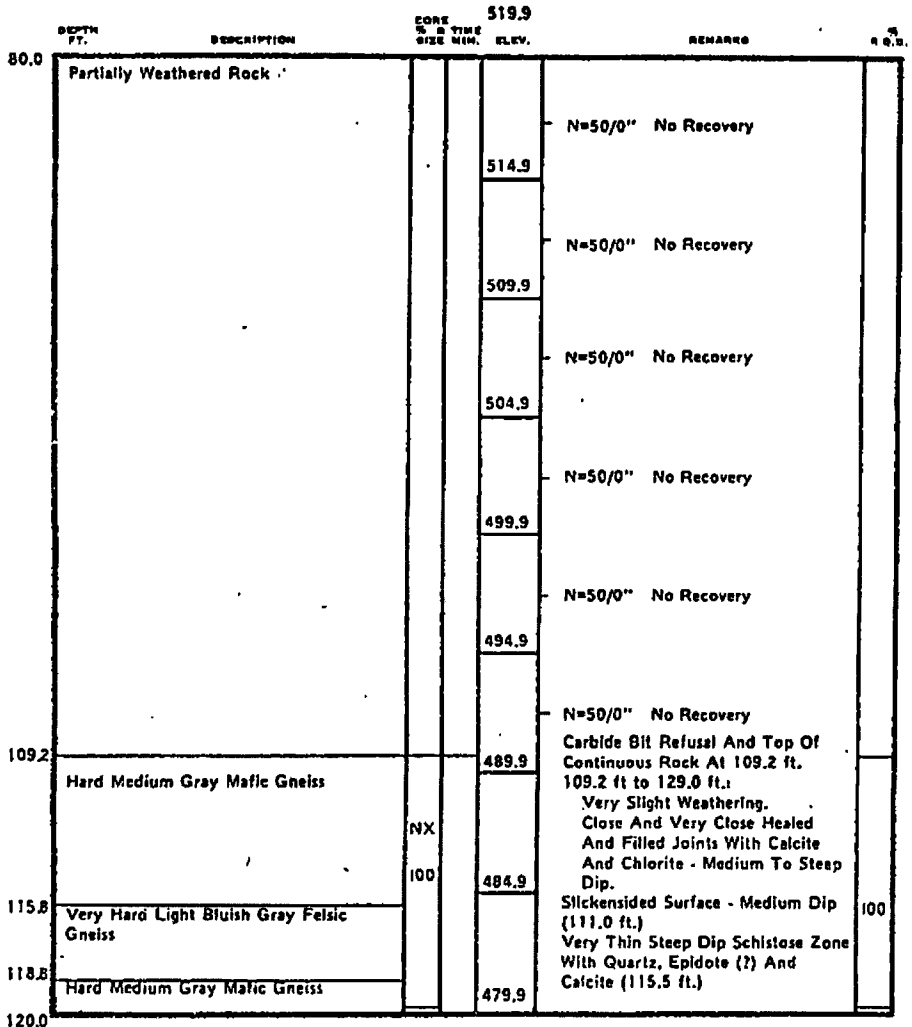
ROCK JOINTS:
L = LOW DIP 0-50°
M = MED. DIP 50°-80°
S = STEEP DIP 80°-90°

* Sand And Very Stiff Micaceous Fine To Coarse Very Sandy Silt

TEST BORING RECORD

BORING NO. B-244
DATE DRILLED 4-12-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



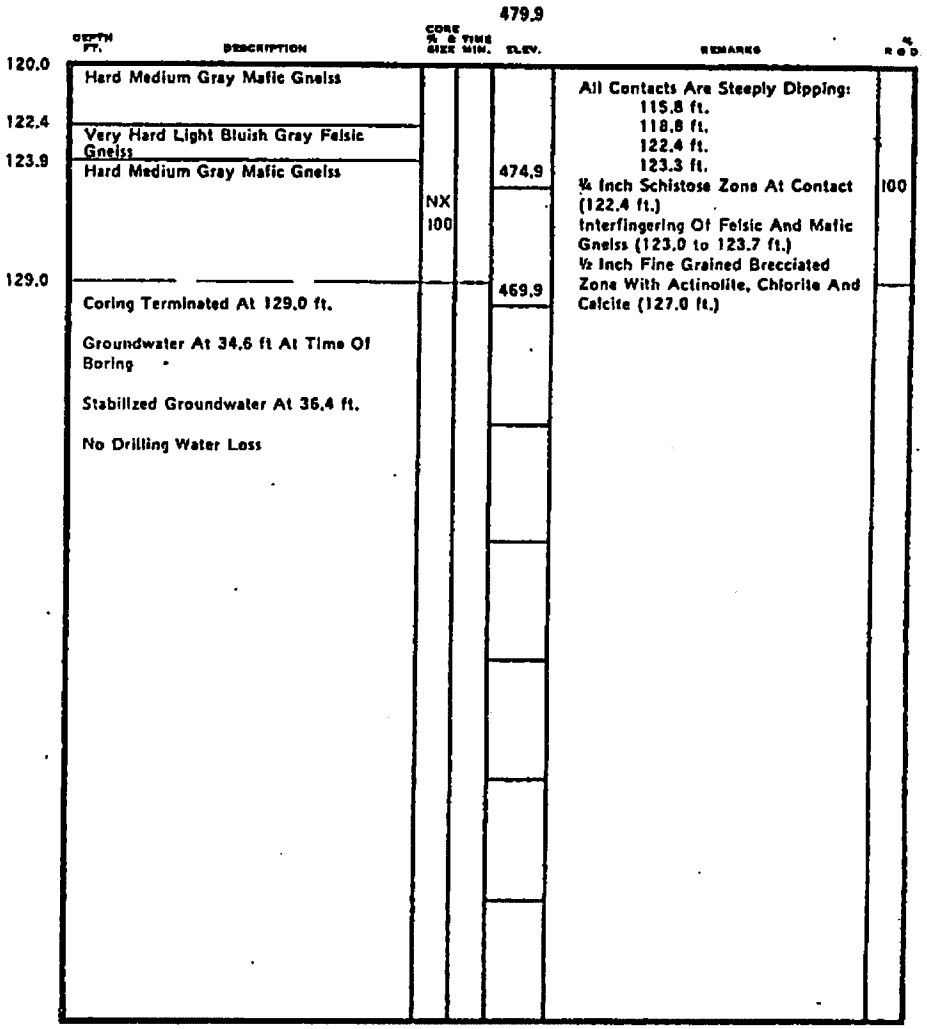
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–20° M = MED. DIP 20°–60° S = STEEP DIP 60°–90°

Page 3 of 4

TEST BORING RECORD

BORING NO. B-244
DATE DRILLED 4-12-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



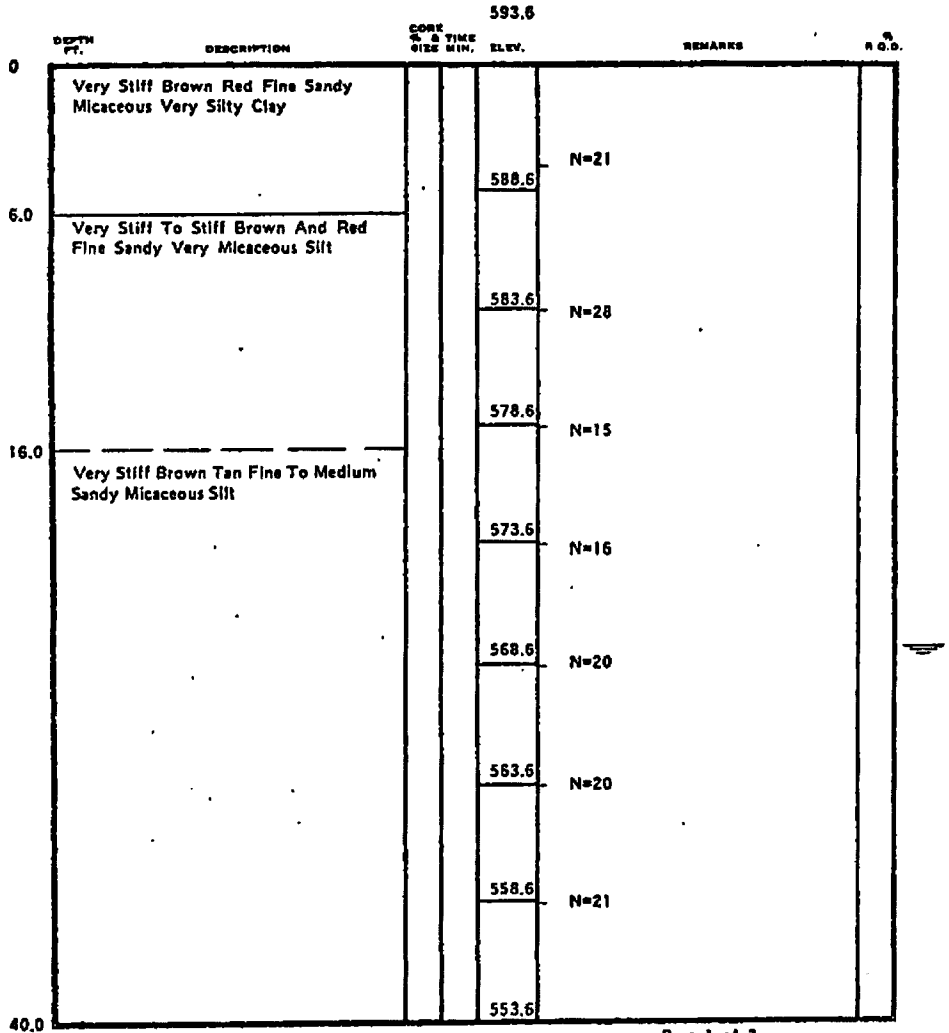
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–20° M = MED. DIP 20°–60° S = STEEP DIP 60°–90°

Page 4 of 4

TEST BORING RECORD

BORING NO. B-244
DATE DRILLED 4-12-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

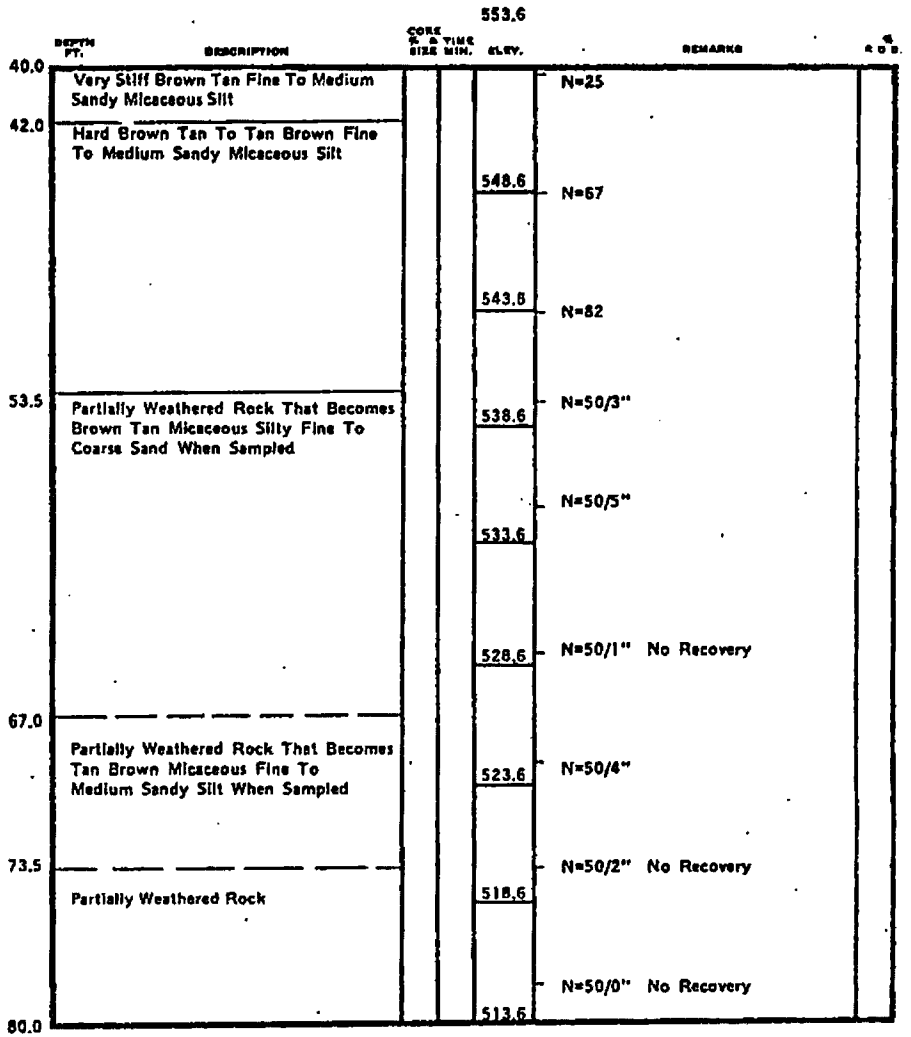


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-245
DATE DRILLED 4-10-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

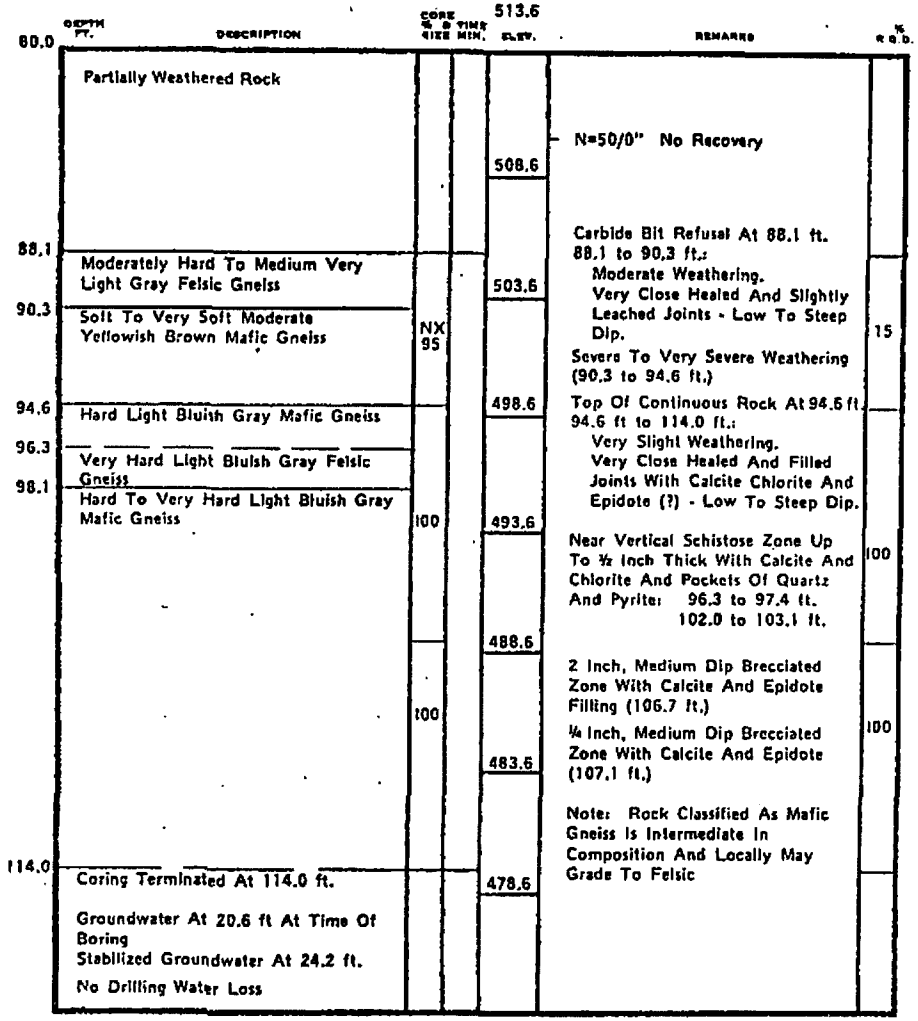


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

Page 2 of 3

TEST BORING RECORD

BORING NO. B-245
DATE DRILLED 4-10-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

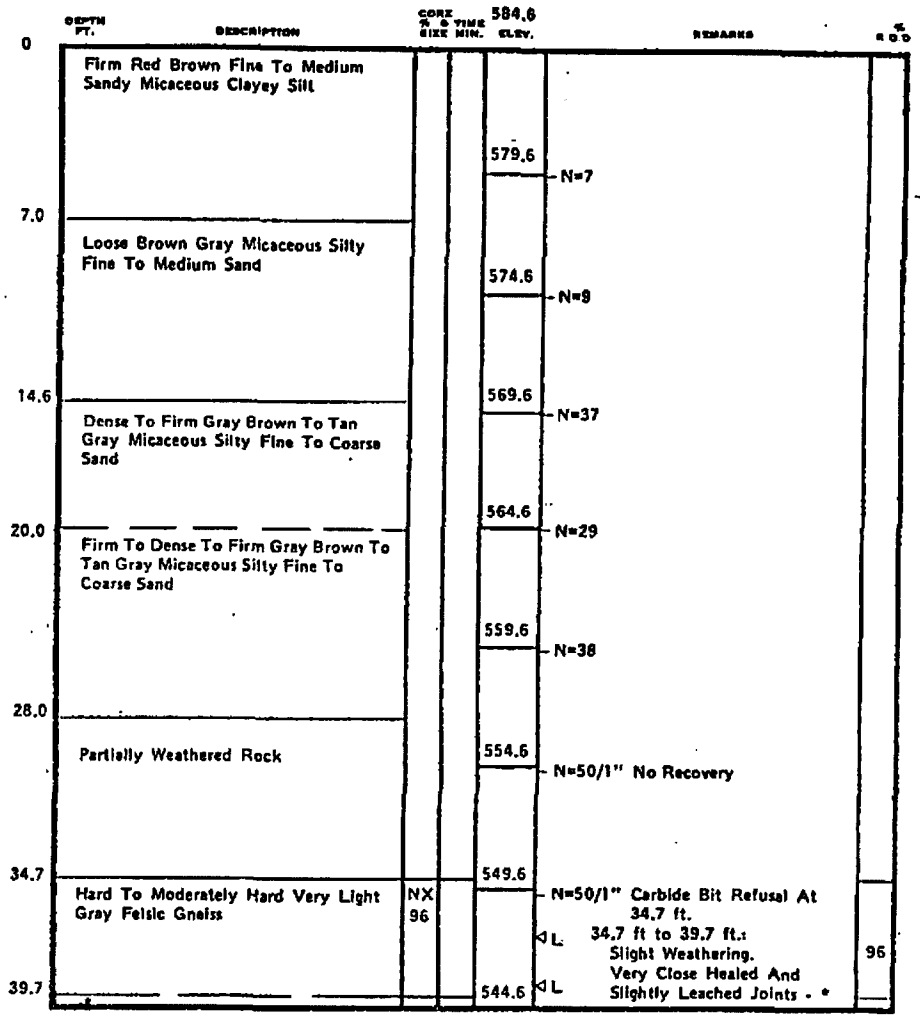
ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-245
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

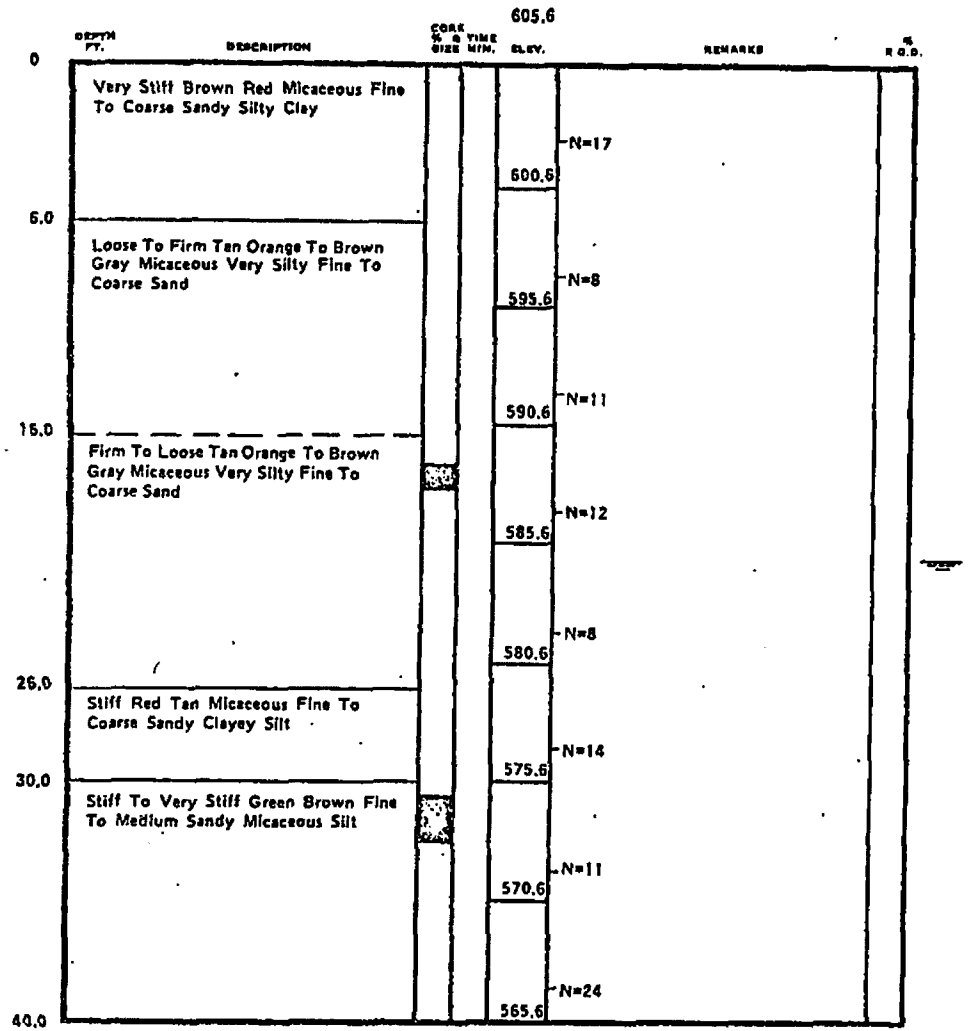
* Coring Terminated At 39.7 ft.
Groundwater At 6.0 ft At Time Of Boring
Stabilized Ground-water At 5.9 ft.
No Drilling Water Loss
* Low To Steep Dip.

TEST BORING RECORD

BORING NO. B-246
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Page 1 of 1

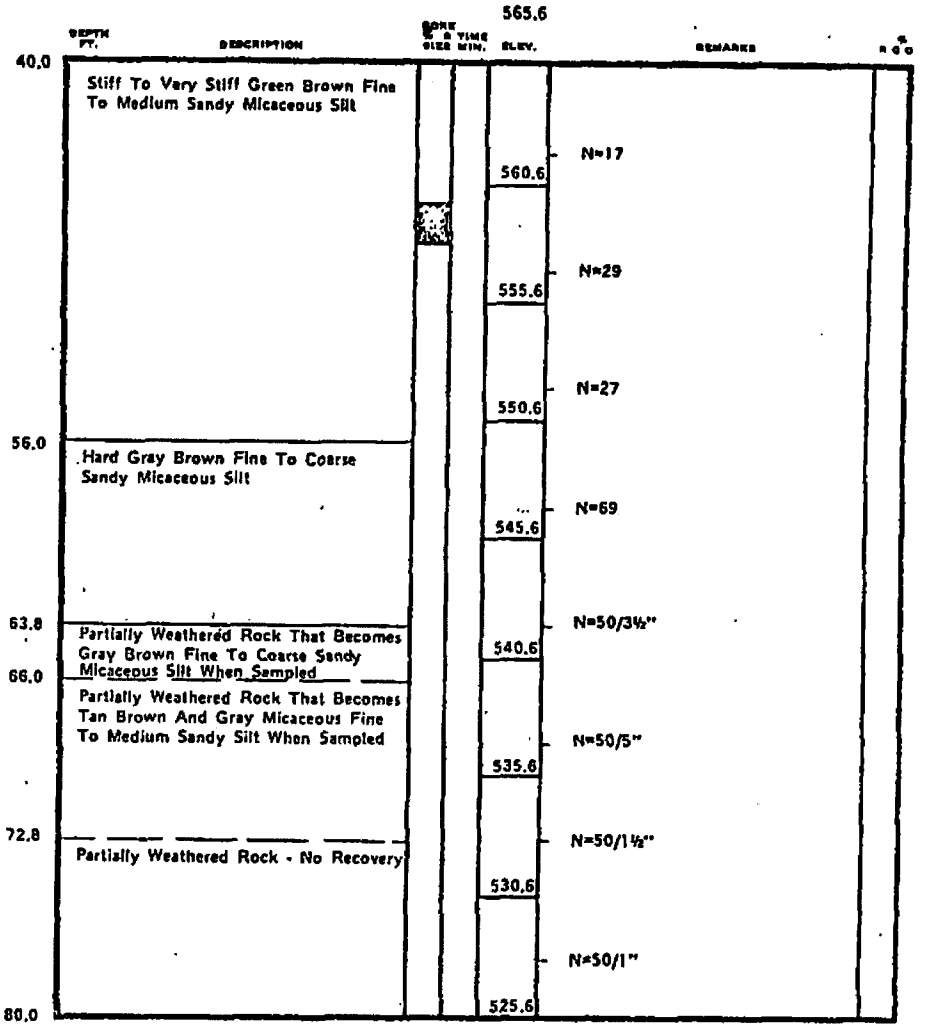


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-247
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

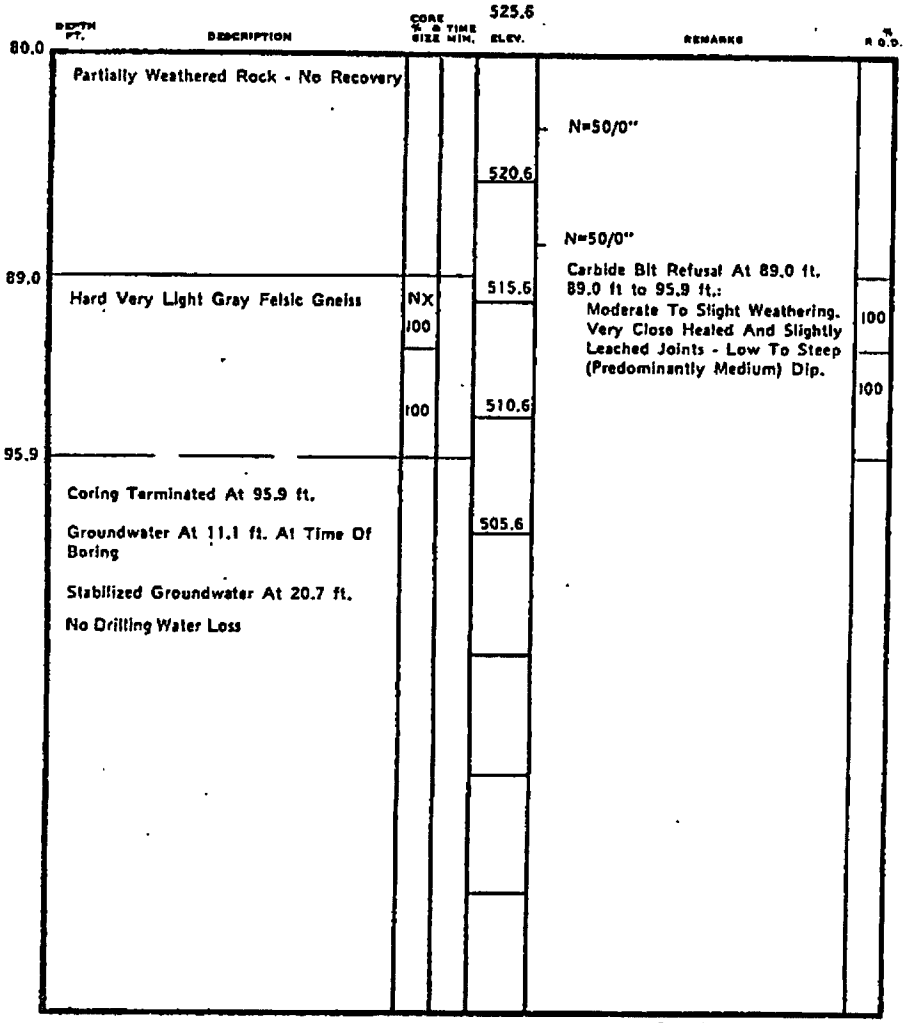


BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINTS: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-247
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



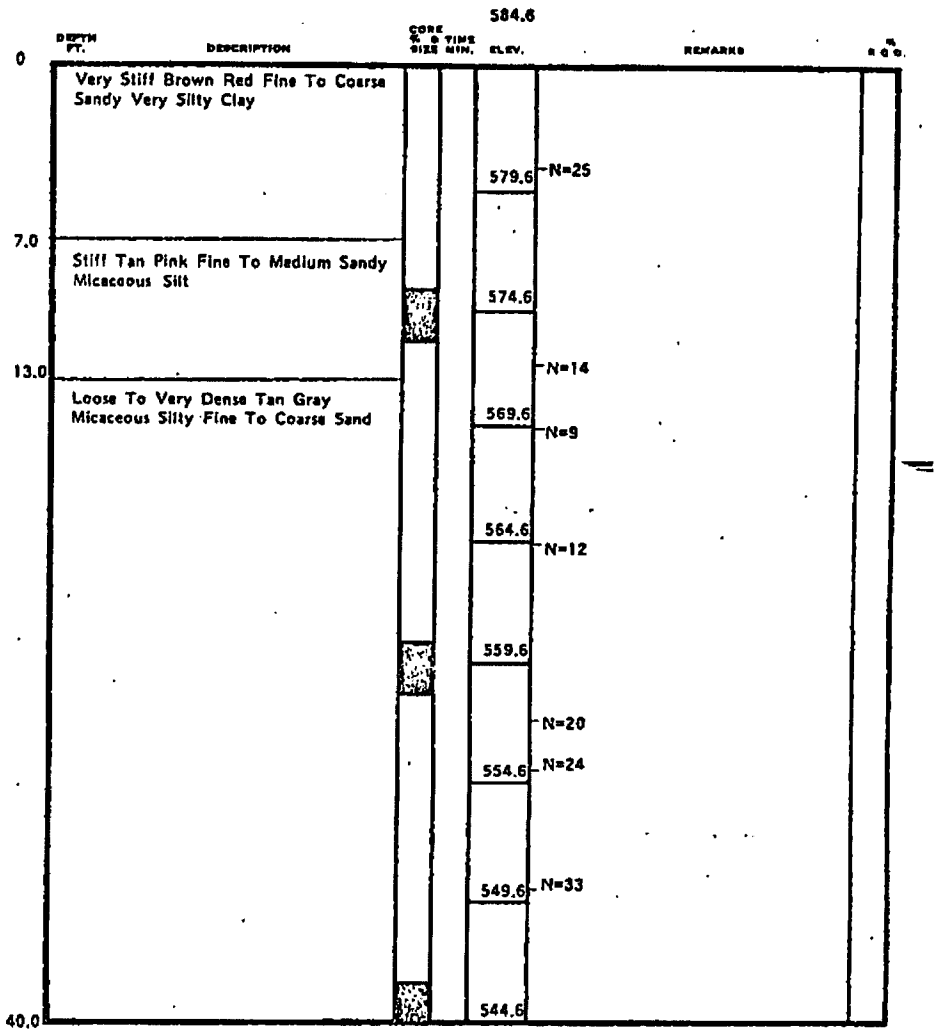
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-247
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



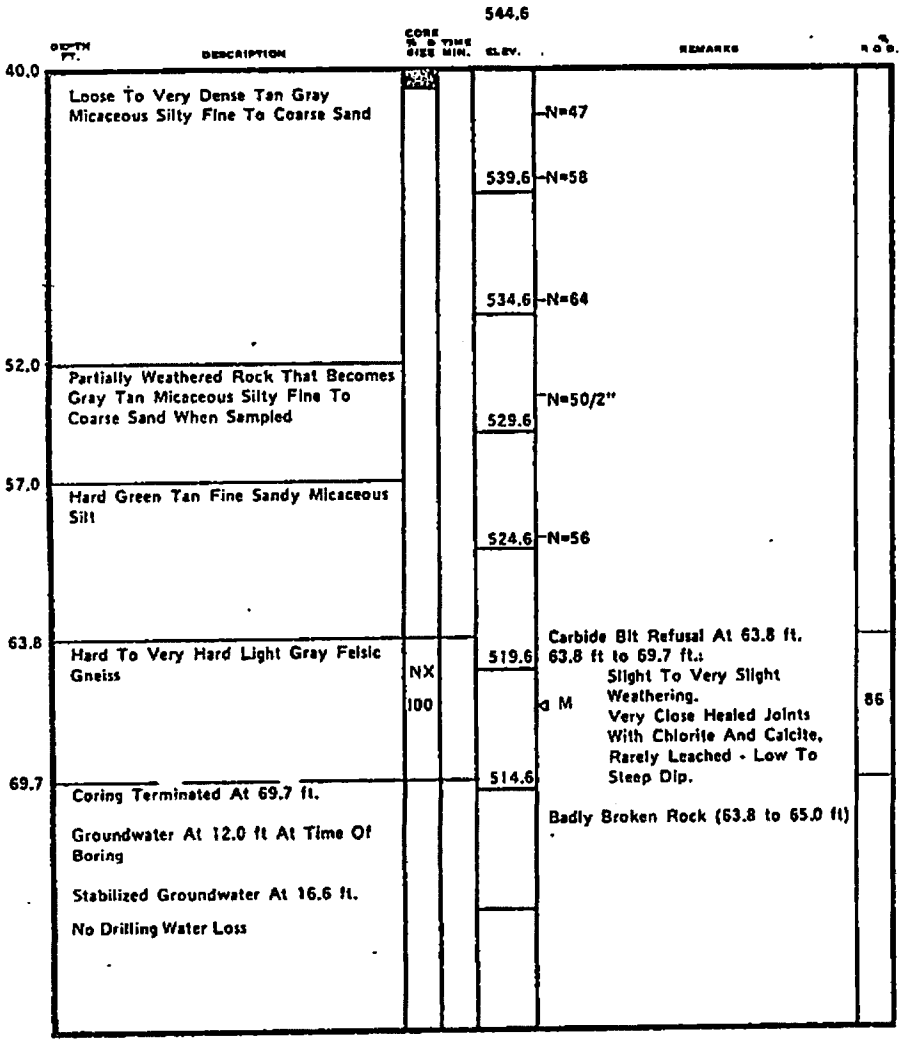
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-248
DATE DRILLED 4-11-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

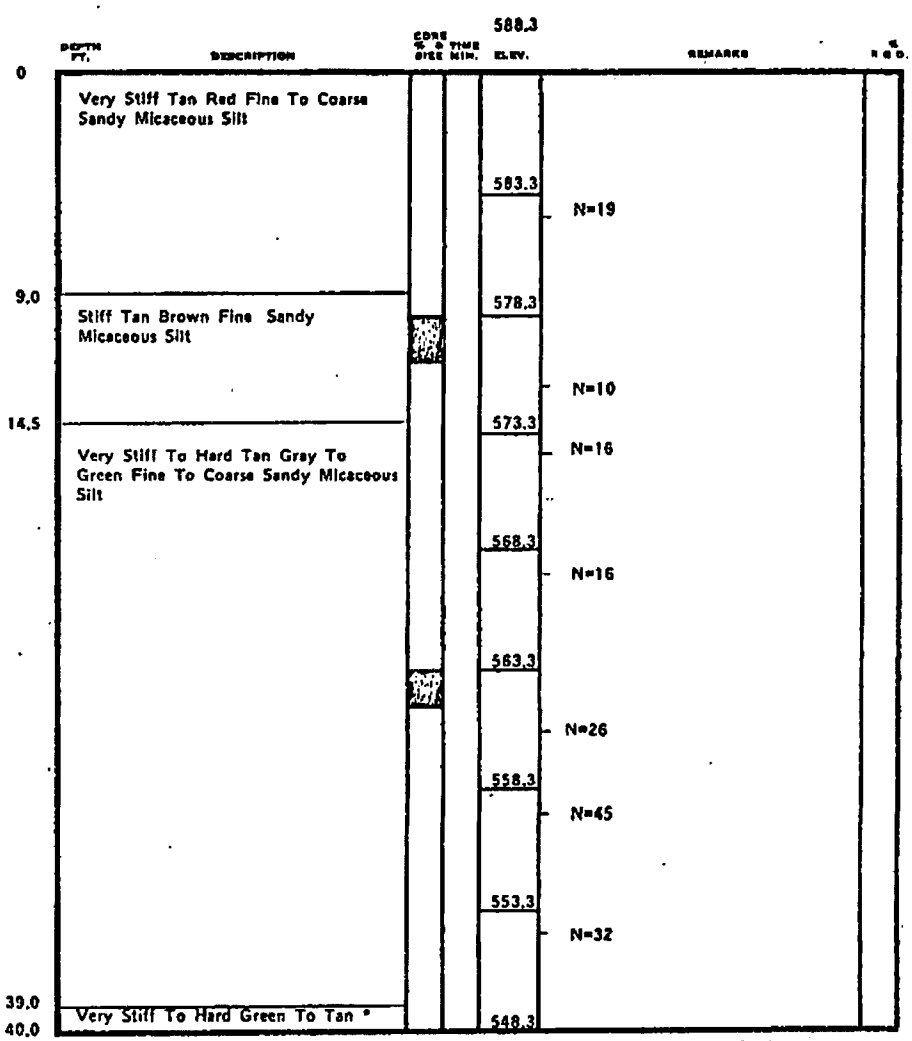
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-248
DATE DRILLED 4-11-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

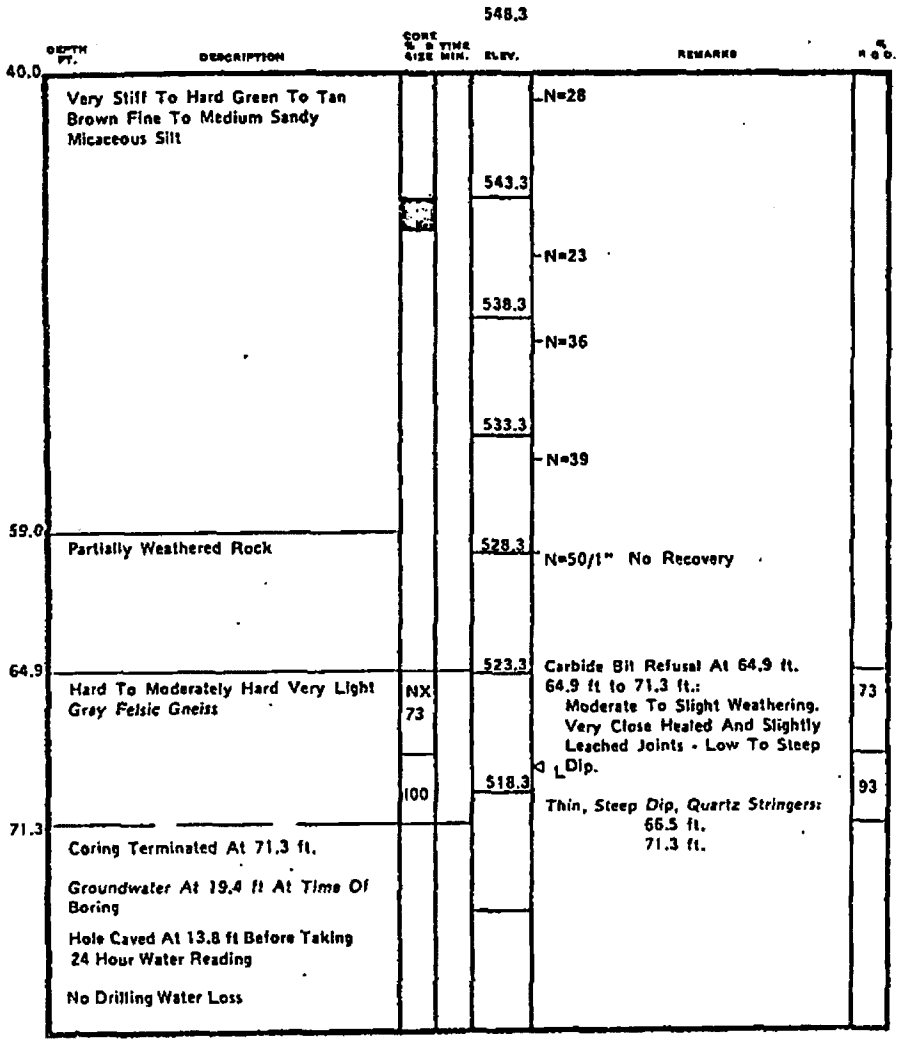
*Brown Fine To Medium Sandy Micaceous Silt

Page 1 of 2

TEST BORING RECORD

BORING NO. B-249
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

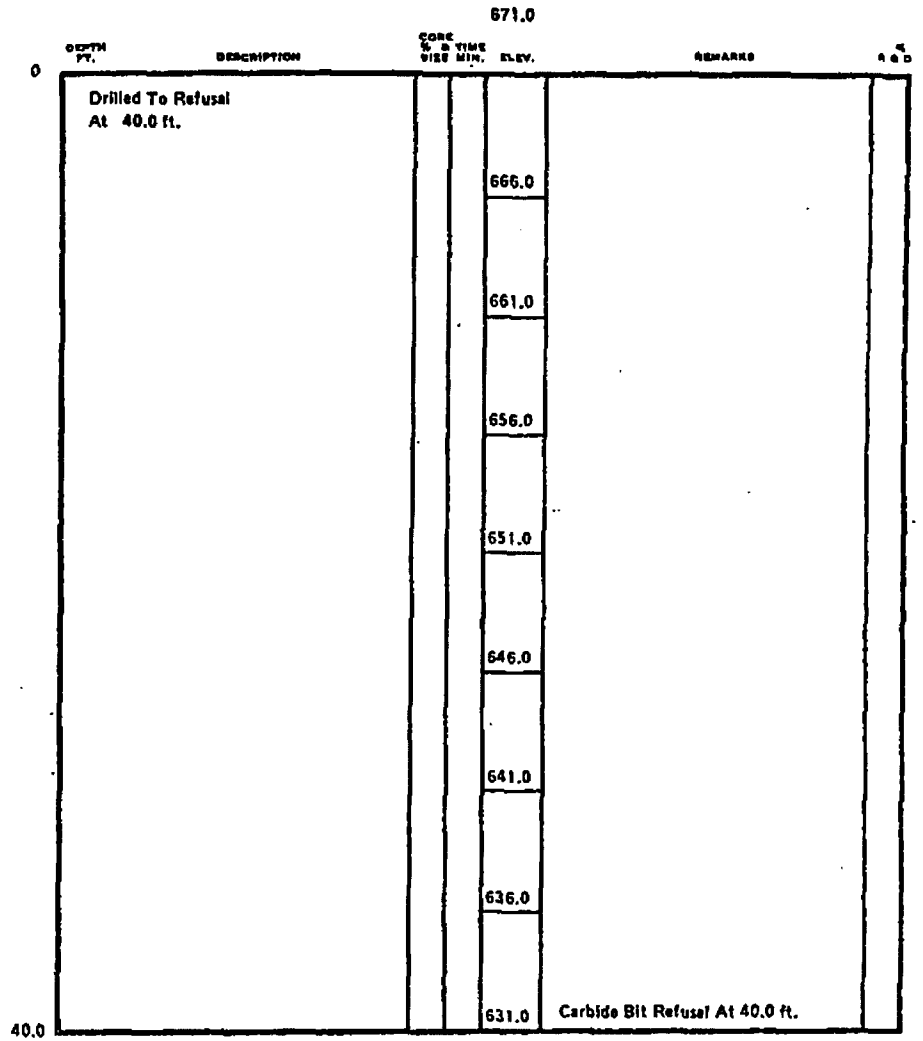
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-249
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

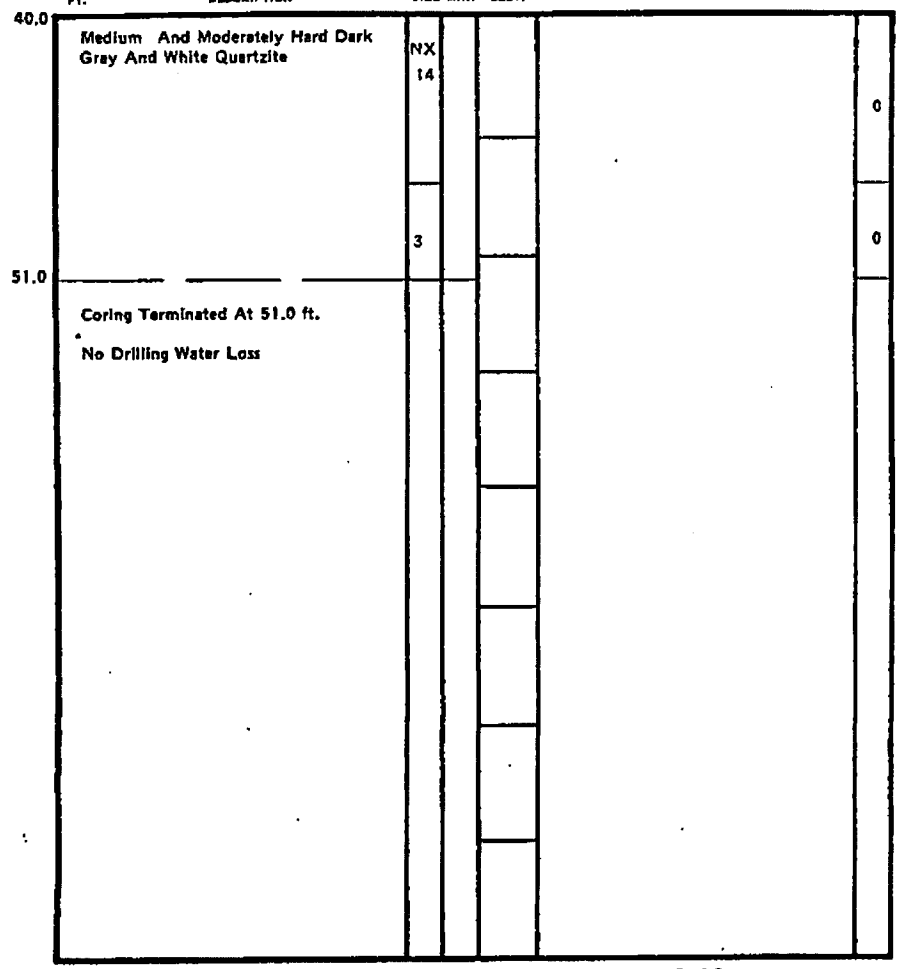
ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-250
DATE DRILLED 3-20-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



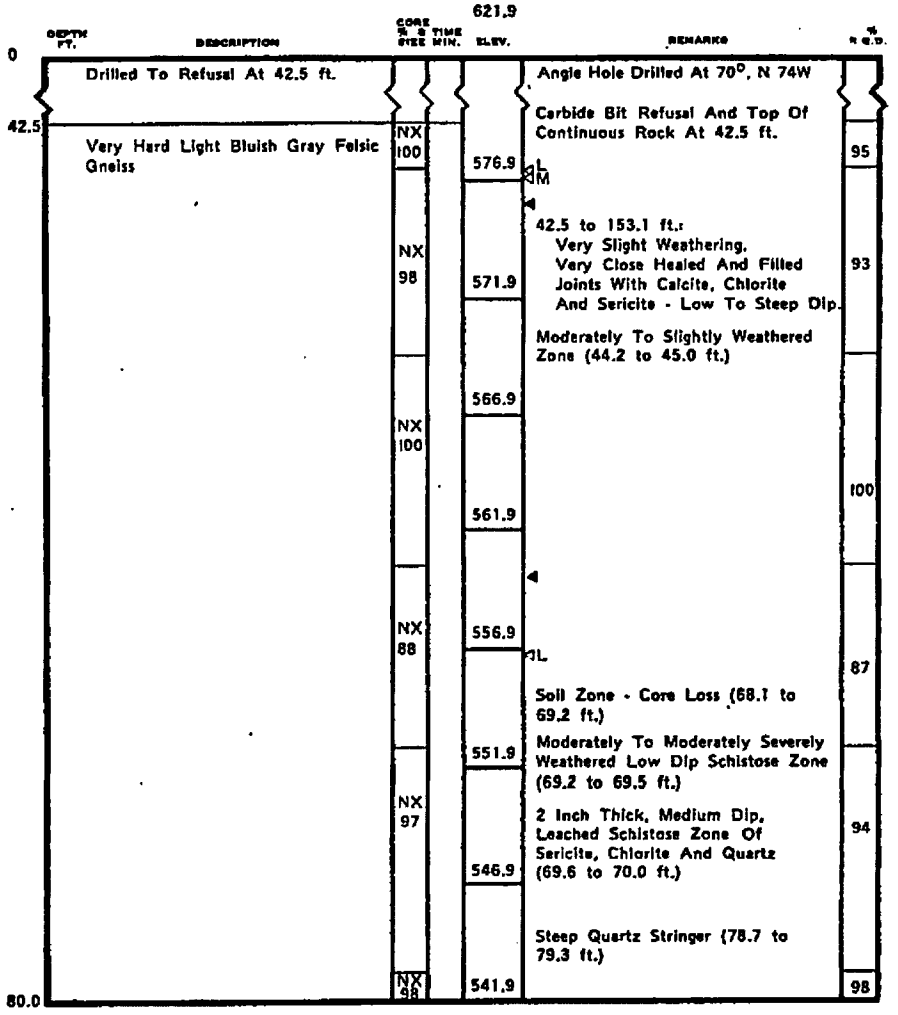
Page 2 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-250A
DATE DRILLED 3-19-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



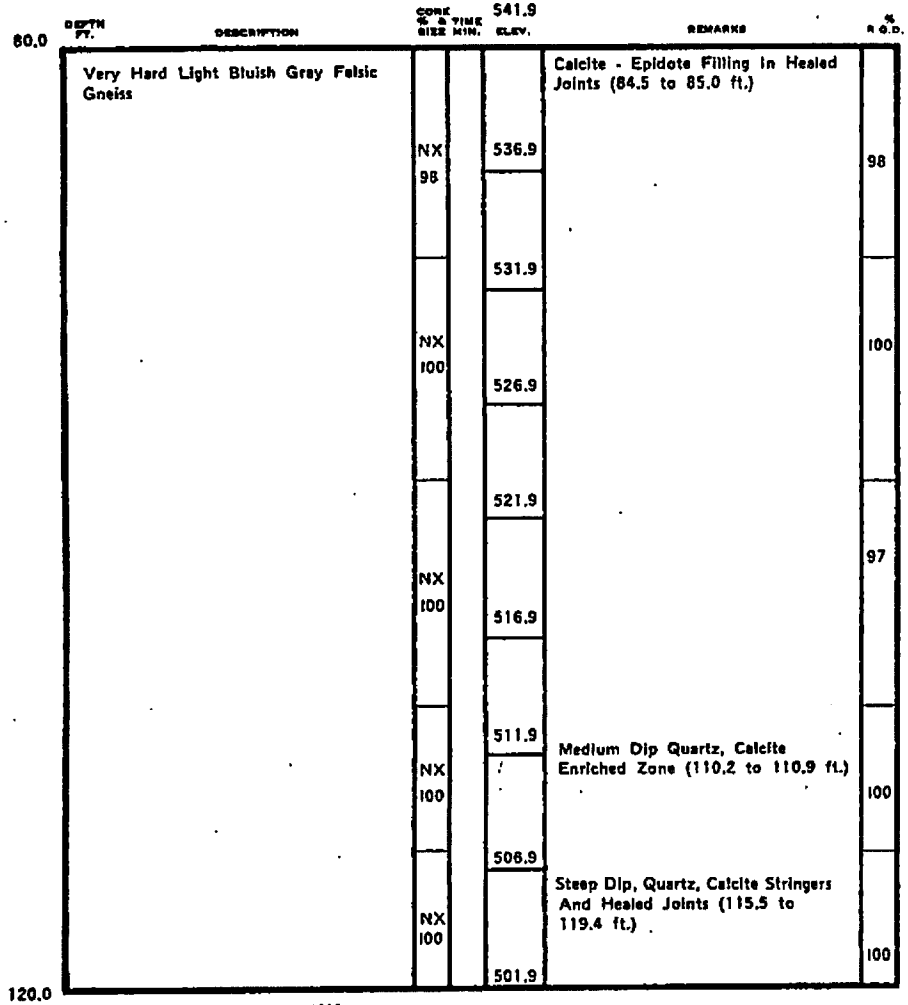
Page 1 of 3

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-251
DATE DRILLED 4-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

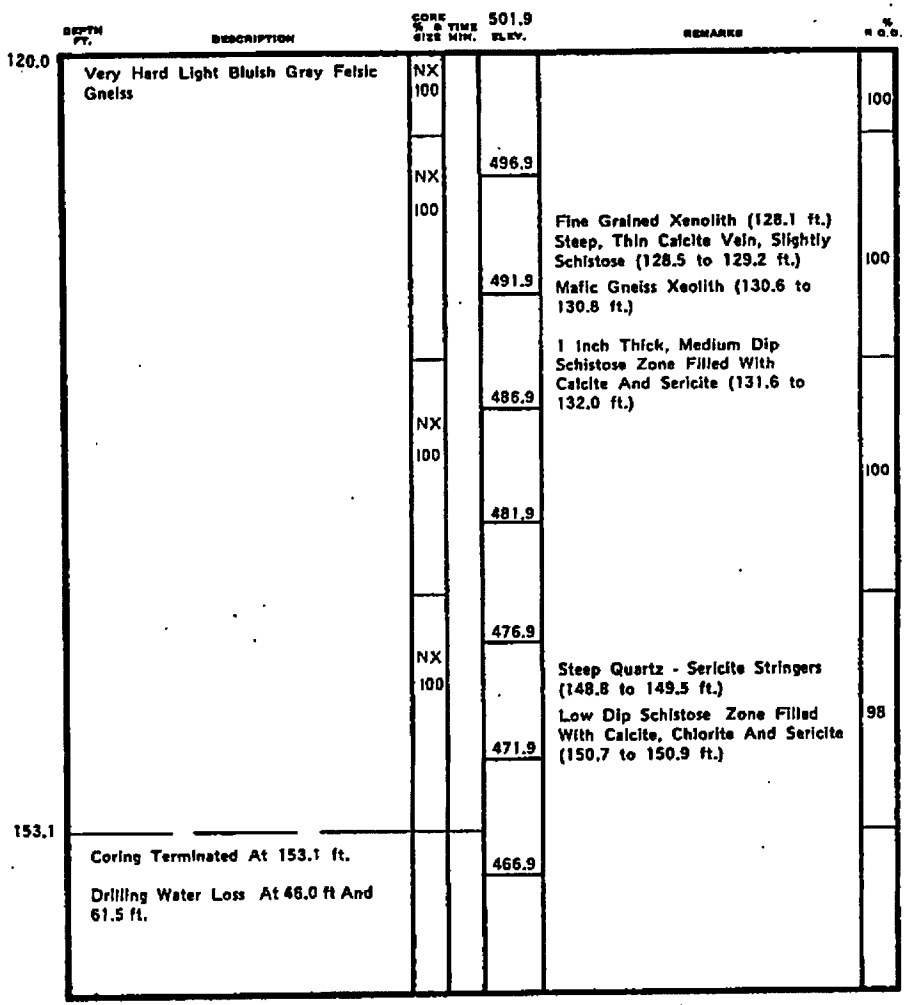
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-251
DATE DRILLED 4-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

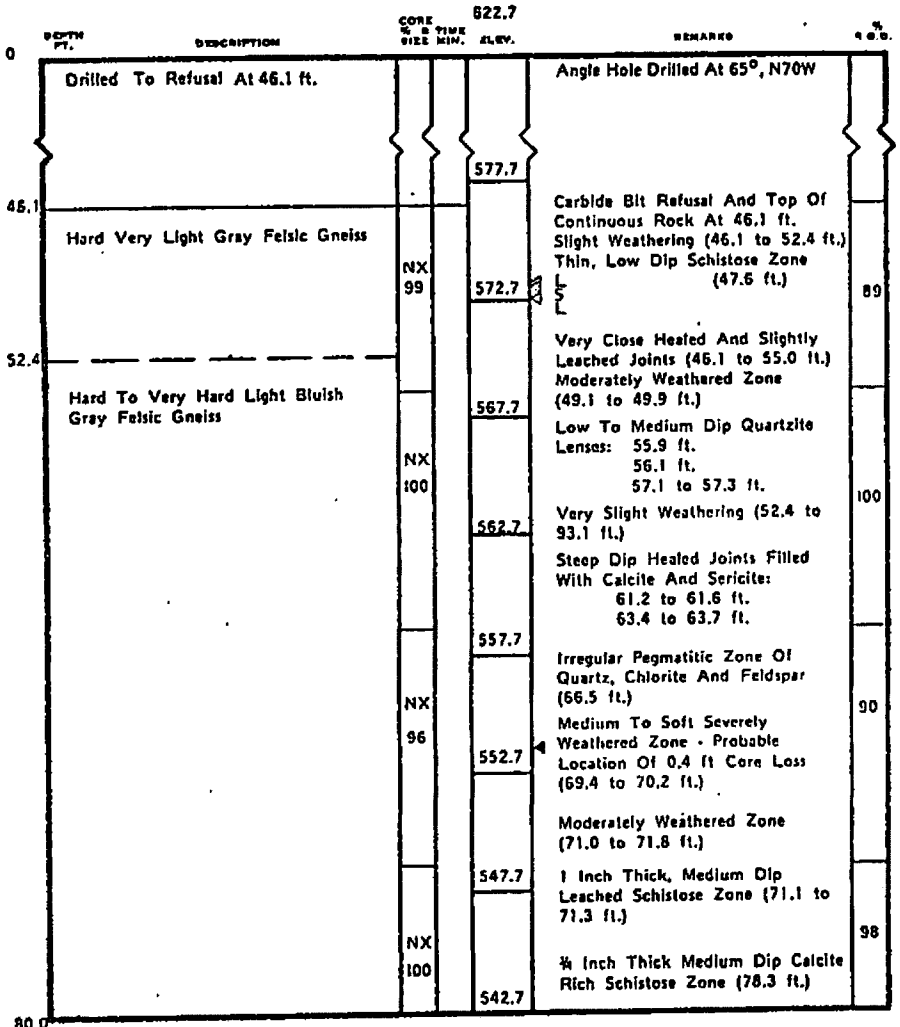
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-251
DATE DRILLED 4-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



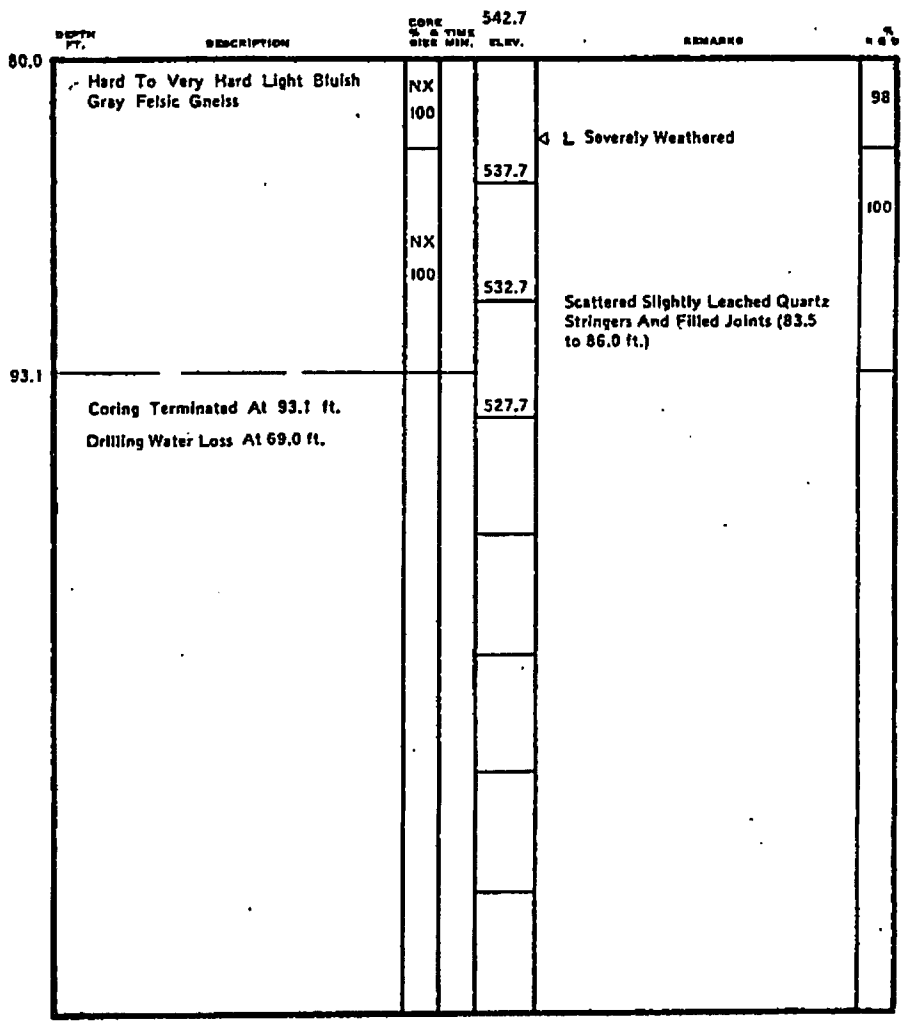
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-252
DATE DRILLED 5-1-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



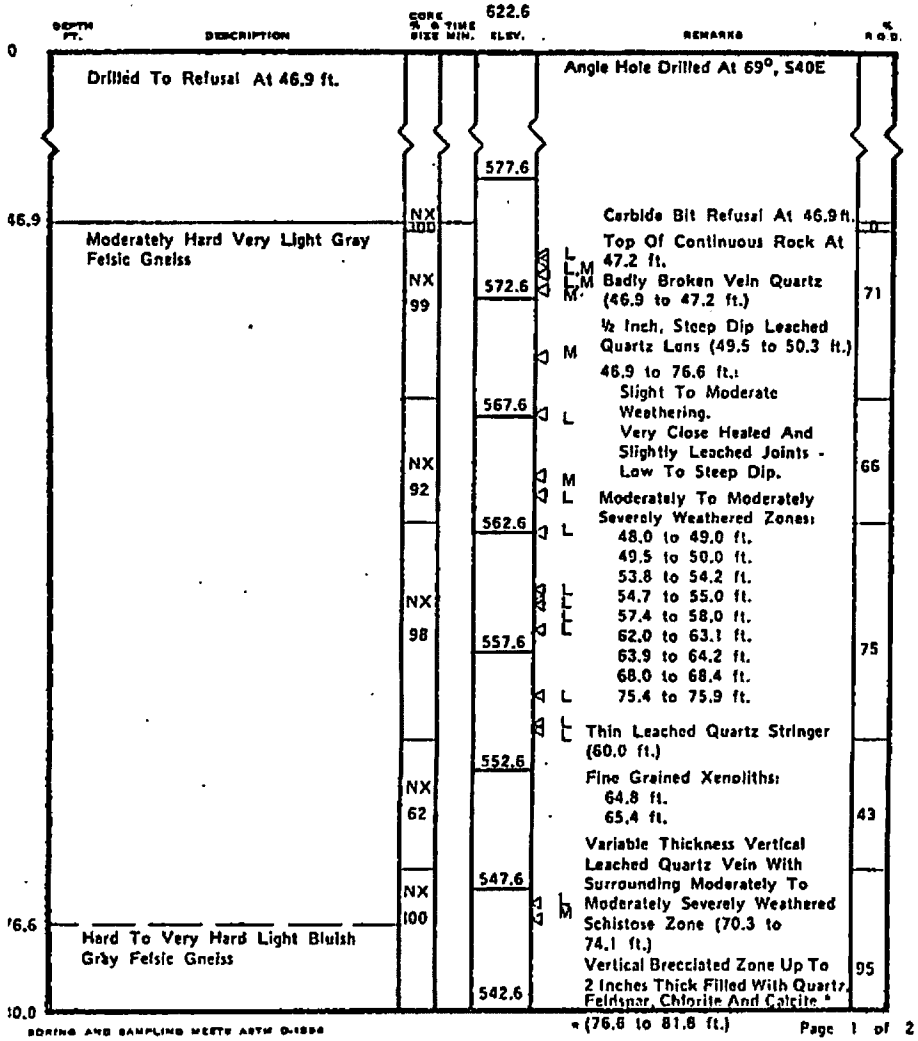
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION
ROCK JOINT: L = LOW DIP 0–30° M = MED. DIP 30°–60° S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. B-252
DATE DRILLED 5-1-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 1 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

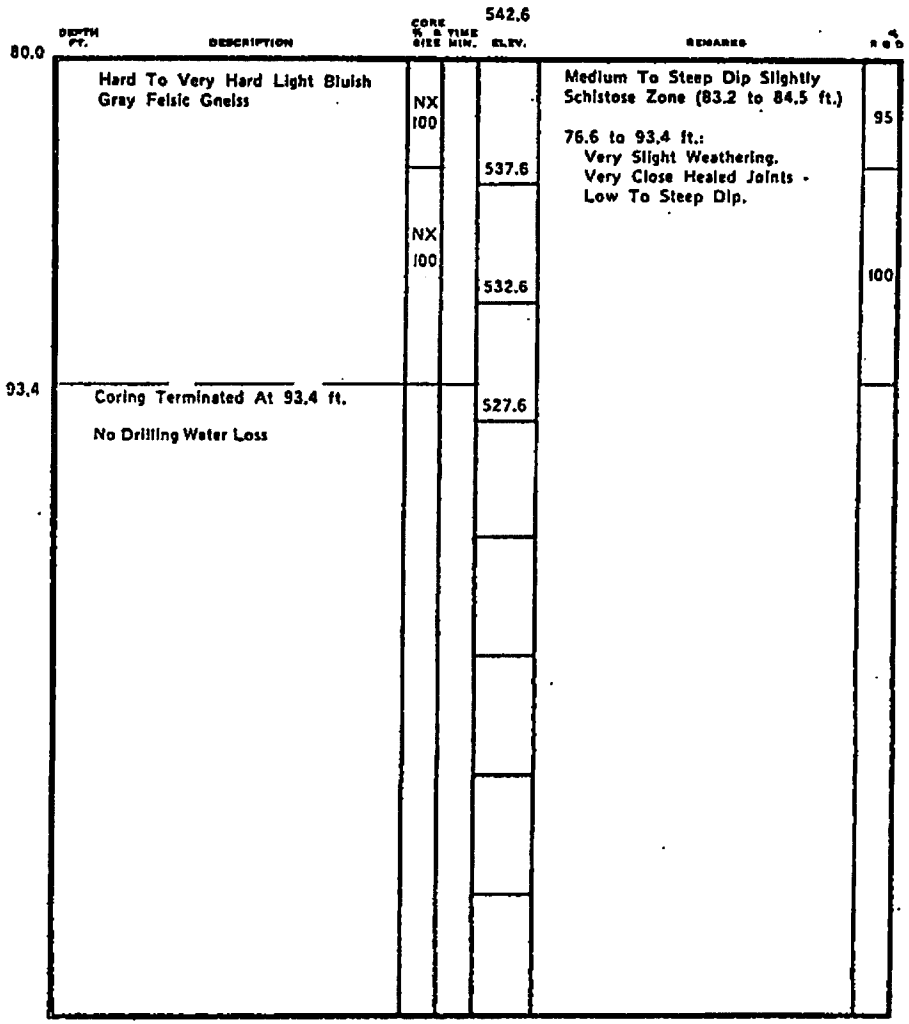
ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Note: This Appears To Correlate With The Shear Zone In B-236, But Drag Not Evident.

TEST BORING RECORD

BORING NO. B-253
DATE DRILLED 5-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



Page 2 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

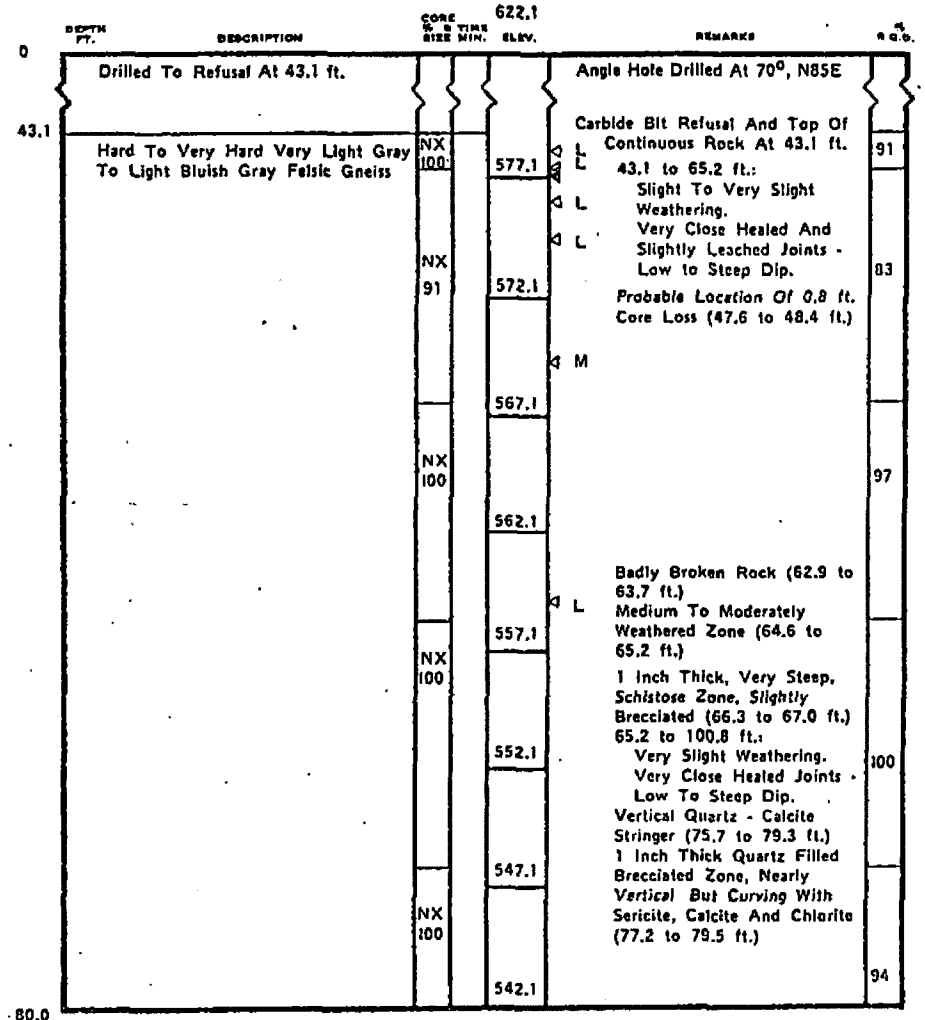
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-253
DATE DRILLED 5-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

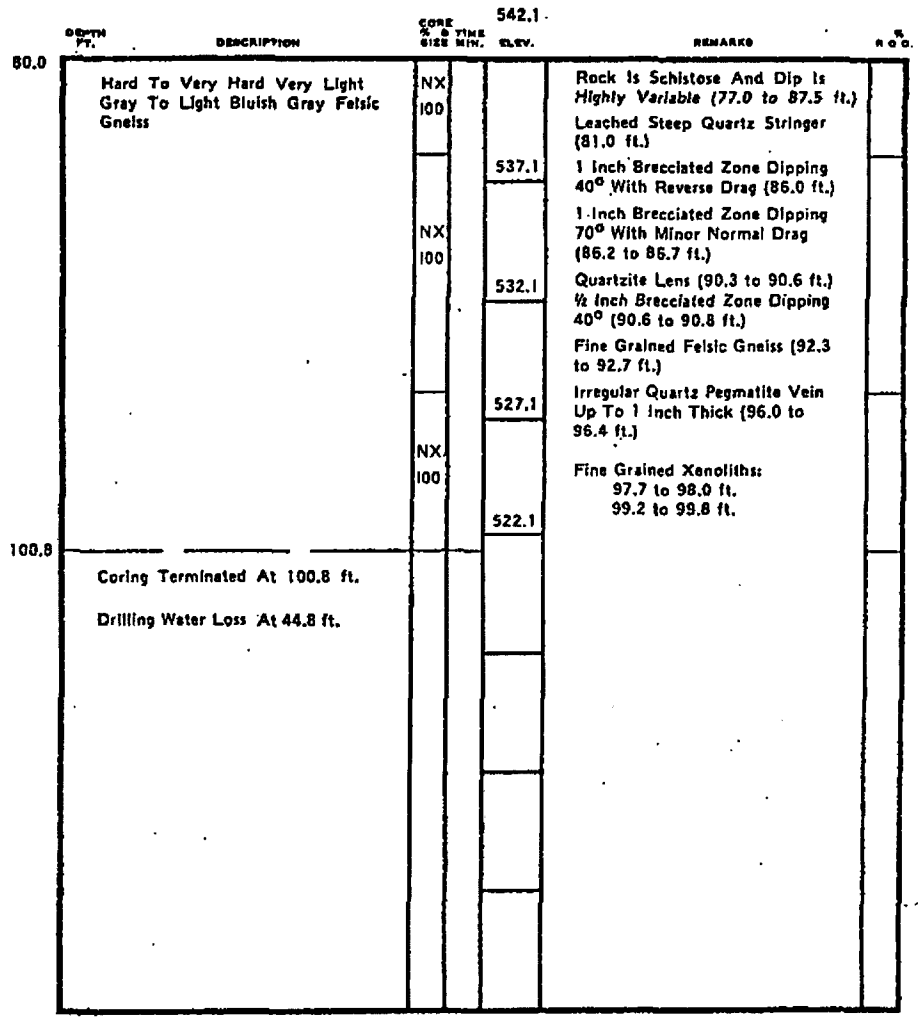
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-254
DATE DRILLED 5-7-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–20°
M = MED. DIP 20°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-254
DATE DRILLED 5-7-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

FORM M-27A | REVISION 0 | PAGE 1 OF 3

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X81B

SOIL TEST BORING FIELD REPORT

INSPECTOR C.H McMAHAN — STARTING TIME 2:30 8/7/74
JOB NO. X81B — GROUND SURFACE ELEV. 581.89
JOB NAME ~~GOFFNEY~~ Cherokee — HRS. DRILLING 25 HRS. MOVING
DATE: 8/6/74 WEATHER CLOUDLY DRILLER V COLVEN BORING NO. NX HOLE PIT # 9

B-262.

SAMPLING				SCALE	UD	SOIL CLASSIFICATION AND REMARKS	
	1ST 6"	2ND 6"	3RD 6"				
				0		8/6/74 MOVED DRILL ON HOLE AND SETUP	
						8/7/74 STARTED AT 7:00 (DRILL BROKE DOWN, NEEDED	
4.5' RUN 100% REC						LOADER TO CUT PIECE FROM BOOM)	
4.5 REC						CORING RATE FOR FIRST RUN WAS 35 MIN 3000 LBS PRE.	
RQD= .64						SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE	
						END RUN 4.5 WITH SLIGHTLY WEATHERED SEAM	
						8/7/74 VERTICAL JOINTS @ 12'-1.5'-1.8'-2.1'	CORE RATE
						100% WATER LOSS AT 4.6 (4000 LBS PRE	2 4:05
							3:00
9.9 RUN 95% REC						SLIGHT/VERY SLIGHTLY WEATHERED	3:10
9.4 REC				10		HARD/VERY HARD GRANITE W/ SLIGHTLY	
RQD= .70						WEATHERED SEAMS (VERY SOFT SEAM FROM 10.5'-11.1'	
						STEEL DRILL .6 IN/2 SEC) VERTICAL JOINT @	5:30
						7.2'-9.2'	7:00
							6:05
				15		END RUN 14.4	
9.9 RUN 100% REC							
9.9 REC						FRESH/VERY SLIGHTLY WEATHERED	
RQD= .99						HARD/VERY HARD GRANITE	
				20		W/ SLIGHTLY WEATHERED SEAM	
							CORE RATE
						4000 LBS PRE	6:45
				25		END RUN 24.3'	
10.0' RUN 100% REC						FRESH/VERY SLIGHTLY WEATHERED	
10.0' REC				30		HARD/VERY HARD GRANITE	MIN/ SEC
RQD= 1.00						5000 LBS PRE CORE	RATE
						18	20
						19	30
						20	05
				35		END RUN 34.3'	
				40			

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE

BORING TERMINATED: 99.65
BORING REFUSAL: 0
WATER TOB DEPTH
WATER 24 HR. DEPTH
WATER LOSSES 100%
CASING SIZE NONE LENGTH 0

METHOD OF ADVANCING BORING	DEPTH
POWER AUGER NA	TO
HAND CHOP: W/MUD: W/WATER NA	TO
ROTARY DRILL: W/MUD: W/WATER NA	TO
DIAMOND CORE 0.0	TO 99.65

FORM M-27A | REVISION 0 | PAGE 2 OF 3

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X81B

SOIL TEST BORING FIELD REPORT

INSPECTOR C. H. McMAHAN | STARTING TIME 2:30
JOB NO. X81B | GROUND SURFACE ELEV. 581.89
JOB NAME GAFFNEY Chamber | HRS. DRILLING 25 | HRS. MOVING
DATE: 8/8/74 | WEATHER CLOUDLY | DRILLER J. OWENS | BORING NO. NX HOLE PIT 9

SAMPLING	N 1ST 6"	2ND 6"	3RD 6"	SCALE	UD	SOIL CLASSIFICATION AND REMARKS (B-262)
				40		CORE RATE MIN | SEC
10.0' RUN 100% = REC						FRESH / VERY SLIGHTLY WEATHERED HARD / VERY HARD GRANITE 6 | 55
10.0' REC						8/9/74 NO FOOTAGE DUE TO RAIN 7 | 05
RQD = 100						END RUN 44.3'
				45		8/10/74 STARTED DRILL AT 7:30
						WATER TABLE 2.1'
9.95 RUN 100% = REC						FRESH / VERY SLIGHTLY WEATHERED
9.95 REC						HARD / VERY HARD GRANITE
RQD = .97				50		VERTICAL JOINT @ 47.2' - 47.5' 4000 LBS PRE
						(CHANGED FROM D-3 CORE BARREL TO CORE RATE
						NXM CORE BARREL DUE TO SHORTAGE OF 7:05
						D-3 BITS) 7:30
				55		END RUN 54.25'
10.1 RUN 100% = REC						FRESH / VERY SLIGHTLY WEATHERED
10.1 REC						HARD / VERY HARD GRANITE
RQD = .97				60		4000 LBS PRE
						CORE RATE
						6:50
						7:10
				65		END RUN 64.35
5.3 RUN 100% = REC						FRESH / VERY SLIGHTLY WEATHERED
5.3 REC						HARD / VERY HARD GRANITE
RQD = 98						
				70		END RUN 69.65
10.0 = RUN 100% = REC						FRESH / VERY SLIGHTLY WEATHERED
10.0 = REC						HARD / VERY HARD GRANITE
RQD = 1.00				75		CORE RATE
						8:30
						8:10
				80		END RUN 79.65

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE 1-3/8" I.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30"

BORING TERMINATED: 99.65
BORING REFUSAL: 0
WATER TOB DEPTH
WATER 24 HR: DEPTH
WATER LOSSES
CASING SIZE NONE LENGTH 0

METHOD OF ADVANCING BORING		DEPTH
POWER AUGER	NA	TO
HAND CHOP: W/MUD: W/ WATER	NA	TO
ROTARY DRILL: W/MUD: W/ WATER	NA	TO
DIAMOND CORE	0.0	TO 99.65

FORM M-27A | REVISION 0 | PAGE 3 OF 3

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X81B

SOIL TEST BORING FIELD REPORT

INSPECTOR C. H. McMAHAN | STARTING TIME 2:30
JOB NO. X81B | GROUND SURFACE ELEV. 581.89
JOB NAME ~~GAFFNEY~~ Cherokee | HRS. DRILLING 25 | HRS. MOVING
DATE: 8/10/74 | WEATHER CLEAR | DRILLER J. OWENS | BORING NO. N/A HOLE DIT #9

B-262

SAMPLING		"N" 1ST 6"	2ND 6"	3RD 6"	SCALE	UD	SOIL CLASSIFICATION AND REMARKS
					80		
5.0	RUN	100%	REC				FRESH / VERY SLIGHTLY
5.0	REC						HARD / VERY HARD GRANITE
	RQD=	1.00					CORE RATE 8:00
					85		END RUN 84.65
							8/13/74 STARTED DRILL AT 10:30
10.0	RUN	100%	REC				
10.0	REC				90		FRESH / VERY SLIGHTLY WEATHERED
	RQD=	1.00					HARD / VERY HARD GRANITE
					95		END RUN 94.65
5.0	RUN	100%	REC				FRESH / VERY SLIGHTLY WEATHERED
5.0	REC						HARD / VERY HARD GRANITE (CORE RATE 7:00 6:45)
	RQD=	1.00					
					100		END RUN 99.65
							HOLE TERMINATED 8/13/74
					105		
					110		
					115		
					120		

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE 1-3/8" I.D. 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES

BORING TERMINATED: 99.65
BORING REFUSAL: 0
WATER TOB DEPTH
WATER 24 HR. DEPTH
WATER LOSSES 100%
CASING SIZE NONE LENGTH 0

METHOD OF ADVANCING BORING		DEPTH
POWER AUGER	NA	TO
HAND CHOP: W/MUD: W/WATER	NA	TO
ROTARY DRILL: ~~WASH~~: W/WATER	NA	TO
DIAMOND CORE		0.0 TO 99.65

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
APPLICATION FOR INDIVIDUAL WAGE ADJUSTMENT

(1) Name _____ (2) Present Classification _____

(3) Date of Birth _____ (4) Date Hired _____

(5) Date Entered Present Class. _____ (6) Date Last Merit Increase _____

(7) Present Rate _____ (8) Rate & Classification Recommended _____

(9) Reason wage adjustment requested (be specific): _____

Signed: _____ Date: _____
(Foreman)

(10) General Foreman's Comment and Approval: _____

Initials: _____ Date: _____
(Gen Foreman)

(11) Superintendent's Comment and Approval: _____

Initials: _____ Date: _____
(Superintendent)

Approved: (12) Engr. in Chg. _____ (13) Projects Mgr. _____

Instructions

Upon request, Resident Cashier will fill out Items 1, 2, 3, 4, 5, 6, and 7.

Foreman should fill out (8) and (9) and give to General Foreman, who fills out (10) and submits to Superintendent. Form will not be prepared until Item (13) has been completed.

An application for individual wage adjustment requires a Foreman's recommendation and the approval of the General Foreman, Superintendent, Engineer in Charge, Projects Manager, and Construction Manager before it becomes effective. Consequently, an employee should not be notified of a wage adjustment until it has received full approval.

FORM M-27A | REVISION 0 | PAGE 1 OF 2

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT XRIB

SOIL TEST BORING FIELD REPORT

INSPECTOR C.H. McMAHAN | STARTING TIME 7:30
JOB NO. XRIB | GROUND SURFACE ELEV. ~~Elev.~~ 580.7'
JOB NAME ~~Greenway~~ Cherokee | HRS. DRILLING ____ HRS. MOVING ____
DATE: 8/16/74 | WEATHER CLEAR | DRILLER J. OWENS | BORING NO. B-263

SAMPLING				SCALE	UD	SOIL CLASSIFICATION AND REMARKS
	N 1ST 6"	2ND 6"	3RD 6"			
2.6 =	RUN	100%	REC	0		SLIGHT/VERY SLIGHTLY WEATHERED
2.6 =	REC	1.00 =	RQD			HARD/VERY HARD GRANITE
						END RUN 2.6'
2.5 =	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED
2.5 =	REC	1.00	RQD			HARD/VERY HARD GRANITE
2.3 =	RUN	100%	REC	5		END RUN 5.1'
2.3 =	REC	1.00	RQD			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
						(100% WATER LOSS) VERTICAL BREAK @ 6.5'-7.0'
						END RUN 7.4'
2.7	RUN	74% =	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
2.0	REC	.74 =	RQD			(GRAIN 9.4'-10.1') VERTICAL JOINT @ 7.7'-8.1' (CORE BARREL JOINT)
				10		END RUN 10.1'
2.3 =	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
2.3 =	REC	1.00 =	RQD			END RUN 12.4'
2.4	RUN	100%	REC			
2.4	REC	1.00	RQD		14.6'	SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
						END RUN 14.9' (WATER TABLE AT 3.4')
1.9	RUN	100%	REC	15		START DRILL AT 7:30 (8-30-74) (CASING @ 14.6') (8-31-74 NO CHANGES NOTED)
1.9	REC	1.00	RQD		16.8'	SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
						END RUN 16.9'
						(STARTED DRILL AT 7:30 8-23-74)
4.6	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED
4.6	REC	1.00	RQD	20	EX. CORE 21.3	HARD/VERY HARD GRANITE
						END RUN 21.3' 8-26-74 STARTED DRILL AT 11:00
1.4	RUN	100%	REC		22.7'	SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
1.4	REC	1.00	RQD			END RUN 22.7'
4.4	RUN	100%	REC	25		SLIGHT/VERY SLIGHTLY WEATHERED
4.4	REC	1.00	RQD			HARD/VERY HARD GRANITE
						END RUN 27.1' 8-27-74 STARTED DRILL AT 7:30
2.0	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD
2.1	REC	1.00	RQD		EX. CORE 29.0'	END RUN 29.1' GRANITE
1.8	RUN	100%	REC	30		SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY
1.8	REC	1.00	RQD			HARD GRANITE
					32.9	END RUN 30.9'
				EX.		8-28-74 STARTED DRILL AT 7:30
5.1	RUN	100%	REC			
5.1	REC	1.00	RQD			SLIGHT/VERY SLIGHTLY HARD/VERY HARD
				35		GRANITE
						END RUN 36.0'
1.8	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
1.8	REC	1.00	RQD			END RUN 37.8'
4.0						9-21-74 STARTED DRILL AT 7:30
4.0				40		

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE

BORING TERMINATED: 59.7
BORING REFUSAL: ____
WATER TOB DEPTH ____
WATER 24 HR. DEPTH ____
WATER LOSSES ____
CASING SIZE ____ LENGTH ____

METHOD OF ADVANCING BORING	DEPTH
~~POWER AUGER~~	TO
~~HAND CHOP: W/MUD: W/WATER~~	TO
~~ROTARY DRILL: W/MUD: W/WATER~~	TO
DIAMOND CORE	2.0 TO 59.7

FORM M-27A | REVISION 0 | PAGE 2 OF 2

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X 8 1B

SOIL TEST BORING FIELD REPORT

INSPECTOR C H McMAHAN — STARTING TIME 7:30
JOB NO. X 8 1B — GROUND SURFACE ELEV. Sep 580.99
JOB NAME ~~GAFFNEY~~ Cherokee — HRS. DRILLING ____ HRS. MOVING ____
DATE: 8-29-74 — WEATHER CLEAR — DRILLER JACK PARTON — BORING NO. B-333

SAMPLING				SCALE	UD	SOIL CLASSIFICATION AND REMARKS
	N 1ST 6"	2ND 6"	3RD 6"			
4.0	RUN	100%	REC	40		
4.0	REC	1.00	RQD		EX HOLE 41.5	SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
						END RUN 41.8'
1.8	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
1.8	REC	1.00	RQD		43.8'	END RUN 43.6'
				45		
5.05	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED
5.05	REC	1.00	RQD			HARD/VERY HARD GRANITE
					SLIGHT 48.6'	9/9/74 STARTED DRILL AT 7:30 (FINISHED RUN PREPARED FOR TEST)
						END RUN 48.65 9/10/74 STARTED DRILL AT 7:30
2.0	RUN	100%	REC	50		SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
2.0	REC	1.00	RQD		50.7	END RUN 50.65 9/11/74 STARTED DRILL AT 7:30
1.45	RUN	100%	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
1.45	REC	1.00	RQD		52.4	SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
1.65	RUN	100%	REC			
1.65	REC	1.00	RQD	START EX	53.5'	END RUN 53.75
1.6	RUN	100%	REC	55		9/12/74 ST DRILL AT 7:30 SLIGHT/VERY SLIGHTLY WEA. HARD/V HARD GRANITE
1.6	REC	1.00	RQD		56.0'	END RUN 55.75
2.55	RUN	100%	RUN			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE
2.55	REC	1.00	REC		57.8	END RUN 57.9' 9/13/74 STARTED DRILL AT 7:30
1.8	RUN	90%	REC			SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD
1.6	REC	90	RQD	60	59.5	END RUN 59.7' GRANITE
						HOLE TERMINATED 59.7'
				65		LOG ON OVER CORING Hole
						AT Cherokee NUCLEAR
				70		6" Hole with Sections
						of EX hole for Test.
				75		TEST PIT # 9
				80		

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE

BORING TERMINATED: 59.7
BORING REFUSAL: ____
WATER TOB DEPTH ____
WATER 24 HR. DEPTH ____
WATER LOSSES ____
CASING SIZE ____ LENGTH ____

METHOD OF ADVANCING BORING	DEPTH
~~POWER AUGER~~	TO
~~HAND CHOP: W/MUD: W/WATER~~	TO
~~ROTARY DRILL: W/MUD: W/WATER~~	TO
DIAMOND CORE	0.0 TO 59.7

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	637.2 ELEV.	REMARKS	% R.Q.D.
0	Firm Pink, Gray And Tan Slightly Micaceous Very Silty Fine To Medium Sand			632.2	N=14	
				627.2	N=21	
15.0	Very Stiff To Hard Purple, Brown, Orange And Tan Micaceous Fine To Medium Sandy Silt			622.2	N=38	
				617.2	N=28	
				612.2	N=23	
				607.2	N=29	
				602.2	N=38	
38.0	Firm Tan, Purple, Gray, Orange And Black Micaceous Silty Fine To*			597.2		
40.0						

BORING AND SAMPLING MEETS ASTM D-1586 *Medium Sand

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

% ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-280

DATE DRILLED 1-15-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

597.2

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D
40.0	Firm Tan, Purple, Gray, Orange And Black Micaceous Silty Fine To Medium Sand				N=26	
				592.2	N=28	
				587.2	N=23	
				582.2		
56.0	Partially Weathered Rock That Becomes Black And Gray Silty Fine To Coarse Sand When Sampled				N=50/4½"	
				577.2		
62.0	Firm To Dense Tan Brown, And Gray Micaceous Silty Fine To Coarse Sand					
				572.2	N=36	
				567.2		
71.0	Partially Weathered Rock That Becomes Brown And Gray Micaceous Silty Fine To Coarse Sand When Sampled				N=24 No Recovery	
					N=50/4"	
				562.2	N=50/1" No Recovery	
76.2	Hard Medium Gray Falsic Gneiss	NX	95		Carbide Bit Refusal At 76.2 ft.	61
				557.2		
80.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-280
DATE DRILLED 1-15-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	557.2 ELEV.	REMARKS	% R Q D
80.0	Hard Medium Gray Felsic Gneiss	NX	100	552.2	Slight To Very Slight Weathering (76.2 to 89.8 ft.)	98
89.8				547.2		
	Coring Terminated At 89.8 ft. No Drilling Water Loss Groundwater At 66.1 ft But Boring Caved At 66.9 ft After 24-Hours					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
(30) % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 3 of 3

TEST BORING RECORD

BORING NO. B-280
DATE DRILLED 1-15-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

605.3

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D.
0	Firm Red Brown Micaceous Silty Fine To Coarse Sand — With Rock Fragments			600.3	N=16	
8.0	Very Stiff Light Brown Red Micaceous Fine To Medium Sandy Silt			595.3	N=26	
13.0	Hard Red Brown Micaceous Fine Sandy Silt			590.3	N=44	
18.0	Very Stiff Red Brown Micaceous Silt			585.3	N=24	
25.0	Firm Tan Gray Micaceous Silty Fine To Coarse Sand			580.3	N=20	
30.0	Very Stiff Brown Gray Micaceous Fine Sandy Silt			575.3	N=20	
33.0	Very Stiff Brown Gray Micaceous Silt			570.3	N=28	
38.0	Very Stiff Brown Gray Micaceous Fine To Medium Sandy Silt			565.3		
40.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. B-281
DATE DRILLED 1-21-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	565.3 ELEV.	REMARKS	% R Q D
40.0	Very Stiff Brown Gray Micaceous Fine To Medium Sandy Silt				N=16	
.0	Dense Tan Brown Gray Micaceous Silty Fine To Medium Sand			560.3	N=35	
49.2	Partially Weathered Rock That Becomes Tan Black Gray Micaceous Silty Fine To Medium Sand When Sampled			555.3	N=50/3½"	
53.0	Partially Weathered Rock			550.3	N=50/2" No Recovery	
				545.3		
				540.3	N=50/2½" No Recovery	
				535.3		
				530.3		
				525.3		
80.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-281
DATE DRILLED 1-21-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

DEPTH FT.	DESCRIPTION	CORE SIZE	@ TIME MIN.	525.3 ELEV.	REMARKS	% R Q D
80.0	Partially Weathered Rock That Becomes Tan Black Gray Micaceous Silty Fine To Medium Sand When Sampled					
84.6				520.3	Carbide Bit Refusal At 84.6 ft.	
	Medium Blue Gray To Light Gray Felsic Gneiss	NX			84.6 to 90.1 ft.: Moderately Severe Weathering. Some Leaching.	91
		100		515.3	Slight Weathering (90.1 to 98.7 ft.)	
90.1	Moderately Hard To Hard Blue Gray To Light Gray Felsic Gneiss					87
		98		510.3		
98.7	Coring Terminated At 98.7 ft.			505.3		
	No Water Losses					
	Groundwater At 35.7 ft After 24 Hours					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

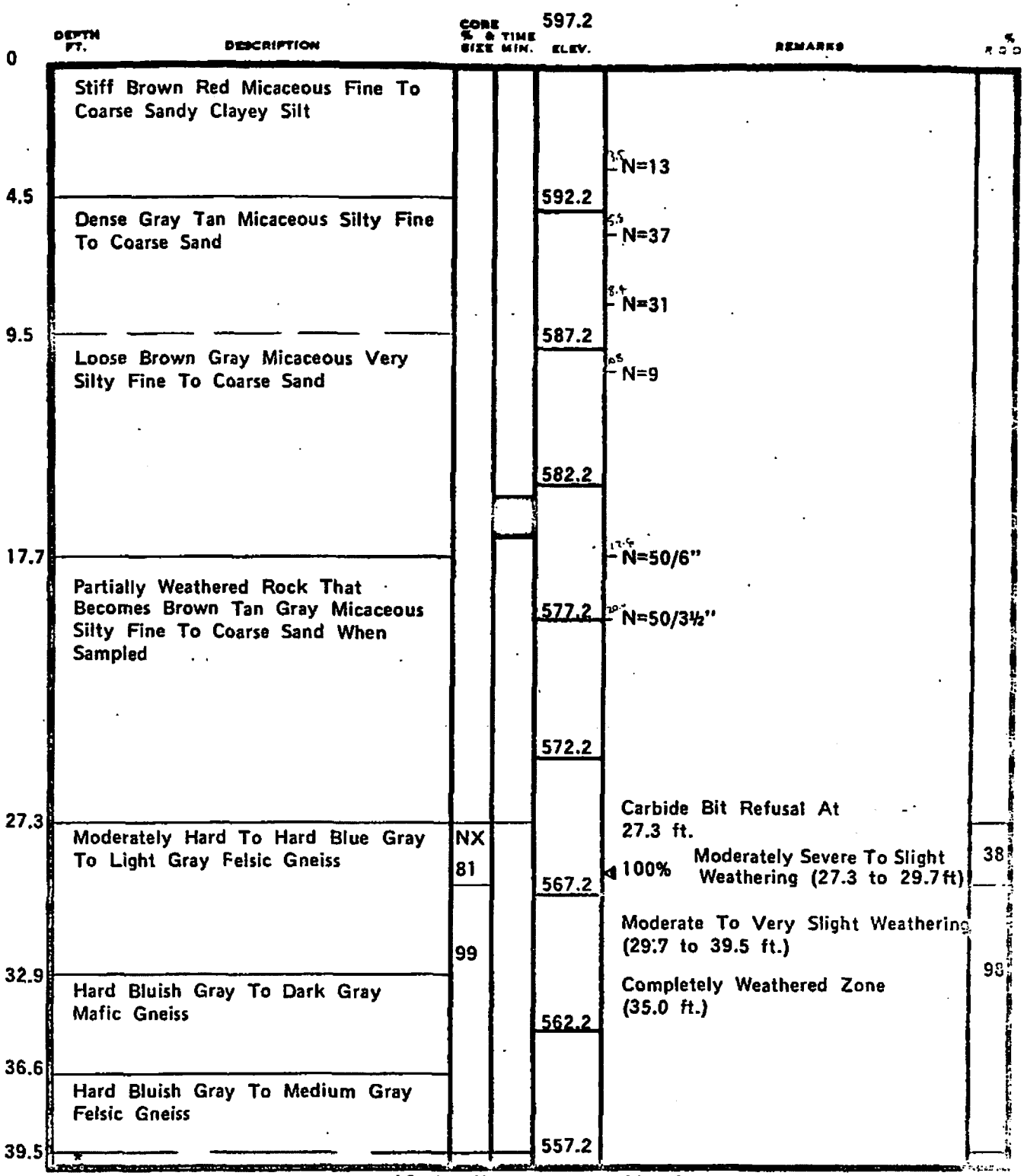
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-281
DATE DRILLED 1-21-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

*Coring Terminated At 39.5 ft.
100% Drilling Water Loss At 29.2 ft.±
Caved And Wet At 17.5 ft After 24 Hours.

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-285
DATE DRILLED 1-28-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Firm Orange Gray And Brown Micaceous Fine To Medium Sandy Silt				N=8	
					N=8	
14.0	Stiff Gray Brown And Tan Micaceous Fine To Medium Very Sandy Silt				N=15	
					N=14	
					N=12	
28.0	Very Stiff Brown And Gray Micaceous Fine To Medium Sandy Silt				N=20	
33.0	Hard Tan And Gray Micaceous Fine To Medium Sandy Silt				N=38	
40.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 4

TEST BORING RECORD

BORING NO. B-287
DATE DRILLED 7-22-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
40.0	Hard Tan And Gray Micaceous Fine To Medium Sandy Silt				N=39	
42.	*Partially Weathered Rock That Becomes Brown And Gray Micaceous Silty Fine To Coarse Sand When Sampled*				N=50/5"	
					N=50/3" No Recovery	
53.0	Hard Brown Olive And Tan Micaceous Silt And Fine Very Slightly Sandy Silt				N=33 No Recovery	
					N=59	
					N=46	
68.0	Partially Weathered Rock That Becomes Gray And Tan Micaceous Silty Fine To Coarse Sand When Sampled				N=50/3½"	
					N=93	
78.0	Hard Dark Gray Orange Tan And Olive Micaceous Silt					
80.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-287
DATE DRILLED 7-22-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
80.0	Hard Dark Gray Orange Tan Olive Micaceous Silt				N=51	
					N=75	
88.0	Partially Weathered Rock That Becomes Dark Gray And Brown Micaceous Silt When Sampled				N=50/4½"	
93.0	Wash Drilled To Refusal With No Sampling					
106.0	Hard Light Gray Felsic Gneiss	NX 43			Carbide Bit Refusal At 106.0 ft. Slight Weathering (106.0 to 110.6 ft.) Soil Zone (110.6 to 111.0 ft.)	0
110.6	Moderately Hard Light Gray Felsic Gneiss	58			Moderately Weathered (111.0 to 113.2 ft.)	0
113.2	Hard Light Gray And Light Bluish Gray Felsic Gneiss	100			Top Of Continuous Rock 113.2 ft. Total Water Loss Slightly Weathered (113.2 to 125.7 ft.)	83
120.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-287
DATE DRILLED 7-22-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D.
120.0	Hard Light Gray And Light Bluish Gray Felsic Gneiss	NX 96			Total Water Loss From 120.0 to 125.7 ft.) Rock Badly Broken (121.4 to 122.2 ft.) 1/8" To 1/4" Solution Cavities Closely Spaced Entire Length Of Core	55
125.7	Coring Terminated At 125.7 ft. Drilling Water Loss					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-287
DATE DRILLED 7-22-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	579.8 ELEV.	REMARKS	% R Q.D.
0	Firm Brownish Gray Slightly Clayey Silty Fine To Medium Sand			574.8	N=12	
8.0	Firm Light Gray And Yellowish Gray Silty Fine To Medium Sand			569.8	N=17	
14.0	Partially Weathered Rock That Becomes Brownish Gray Silty Fine To Medium Sand When Sampled			564.8	N=50/4"	
17.5	Moderately Hard To Medium Very Light Gray Felsic Gneiss	NX 67		559.8	Carbide Bit Refusal At 17.5 ft. 17.5 to 47.2 ft.: Moderate And Slight Weathering. Very Close To Close Joints, Most Stained Black - Mostly Medium To Steep Dip. Very Close Healed Joints - Low To Steep Dip.	26
		15		554.8	Soft Drilling Zone (18.5 to 19.2 ft.)	8
		66		549.8	Soft Drilling Zone - Core Loss: 20.9 to 25.3 ft. 29.0 to 29.8 ft.	28
		92		544.8	Soft Olive Gray Mafic Gneiss (25.3 to 25.8 ft.) Badly Broken Rock (30.5 to 31.5 ft.)	36
		100			Soft, Severely Weathered Zone (33.3 to 33.6 ft.)	35
40.0		97		539.8		76

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
30 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N . STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-289
DATE DRILLED 6-27-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

539.8

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	R Q D
40.0	Moderately Hard To Medium Very Light Gray Felsic Gneiss	NX	97	534.8		76
47.2	Coring Terminated At 47.2 ft.					
	No Drilling Water Loss					

Page 2 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

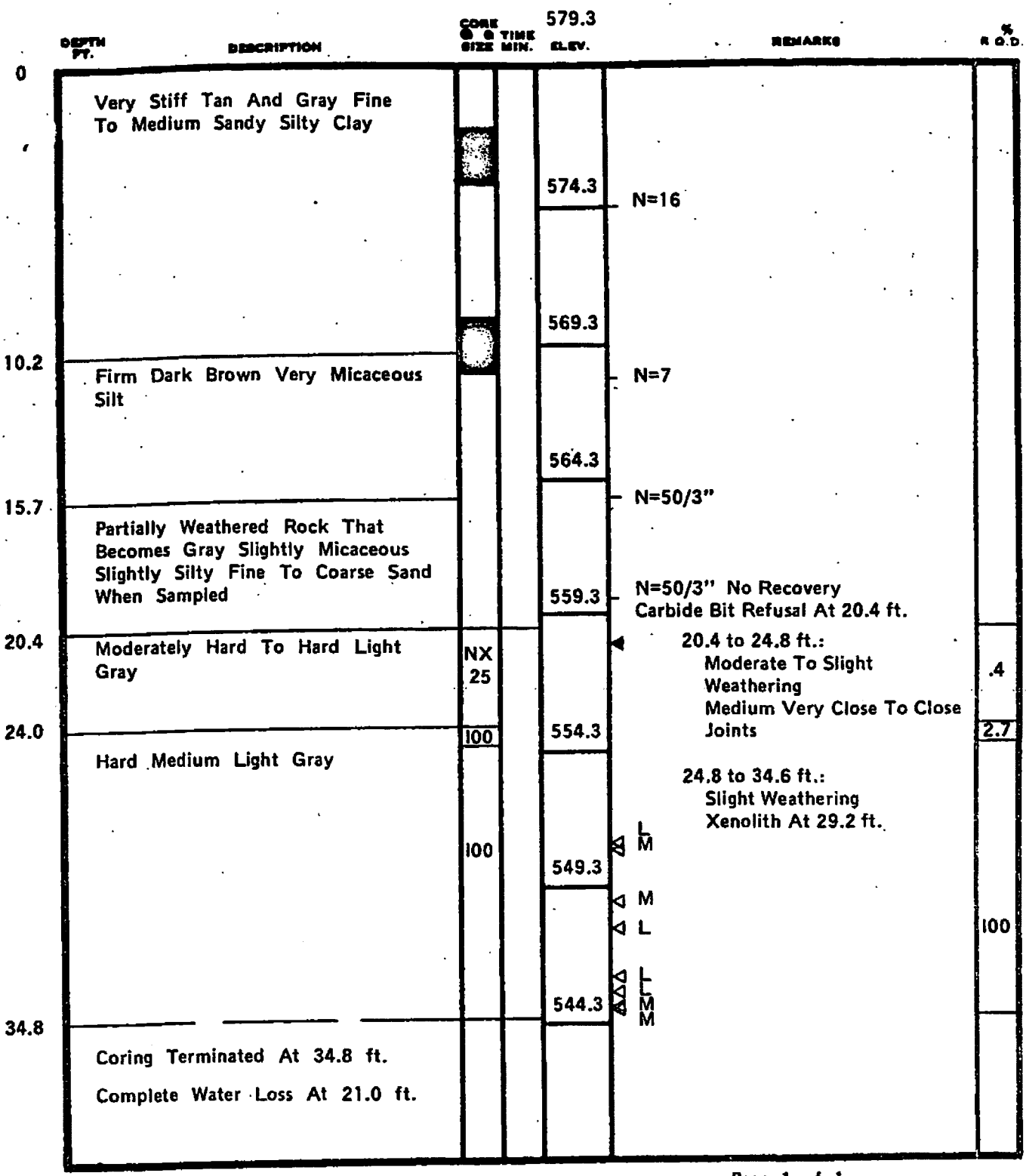
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-289
DATE DRILLED 6-27-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-290
DATE DRILLED 6-30-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

607.5

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Very Stiff Reddish Brown Slightly Sandy Clayey Silt			602.5	N=16	
7.0	Stiff To Very Stiff Light Gray Light Brown And Reddish Orange Fine To Medium Very Sandy Silt			597.5	N=9	
				592.5	N=13	
				587.5	N=19	
				582.5		
26.5	Partially Weathered Rock That Becomes Light Gray And Brown Very Silty Fine *				N=50/6"	
28.5	Dense Light Gray And Brown Silty Fine To Medium Sand			577.5	N=42	
33.0	Partially Weathered Rock			572.5	N=50/0" Carbide Bit Refusal At 35.7 ft.	
35.7	Moderately Hard To Hard Very Light Gray Felsic Gneiss	NX 100			35.7 to 47.9 ft.: Slight To Very Slight Weathering Very Close Healed Joints - Low To Steep Dip.	80
40.0				567.5		

*To Coarse Sand When Sampled

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-291
DATE DRILLED 6-25-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

567.5

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D.
40.0	Hard To Very Hard Bluish White Felsic Gneiss	NX 89		562.5	Moderately Weathered Zone (37.7 to 38.1 ft.) Leaching Along Healed Joints (35.7 to 40.0 ft.)	89
47.9	Coring Terminated At 47.9 ft. Stabilized Groundwater At 27.0 ft. No Drilling Water Loss			557.5		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-291
DATE DRILLED 6-25-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

597.4

DEPTH FT.	DESCRIPTION	CORE SIZE	% & TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Stiff Reddish Brown Micaceous Clayey Silt			592.4	N=13	
9.0	Stiff Light Gray And Tan Slightly Clayey Fine To Medium Sandy Silt With Thin Layers Of Micaceous Clayey Silt			587.4	N=10	
13.0	Firm To Dense Light Gray To Tan Silty Fine To Medium Sand			582.4	N=16 No Recovery	
				577.4	N=37	
				572.4	N=37	
				567.4	N=50/3"	
30.5	Partially Weathered Rock That Becomes Light Gray And Tan Silty Fine To *				Carbide Bit Refusal And Probable Top Of Continuous Rock At 32.6 ft.	
32.6	Hard To Very Hard Bluish White Felsic Gneiss	NX	100	562.4	32.6 to 44.9 ft.: Very Slight Weathering To Fresh Close And Very Close Chlorite Healed Joints - Mostly Steep Dip Scattered Xenoliths Of Mafic Gneiss Up To 1 Inch Diameter.	100
			100			100
40.0				557.4		

BORING AND SAMPLING MEETS ASTM D-1586 * Medium Sand When Sampled

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-292

DATE DRILLED 6-26-75

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	557.4 ELEV.	REMARKS	% R.Q.D.
40.0	Hard To Very Hard Bluish White Felsic Gneiss	100			Mafic Gneiss (34.8 to 35.0 ft.)	100
44.9				552.4		
	Coring Terminated At 44.9 ft.					
	Stabilized Groundwater At 20.0 ft.					
	No Drilling Water Loss					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

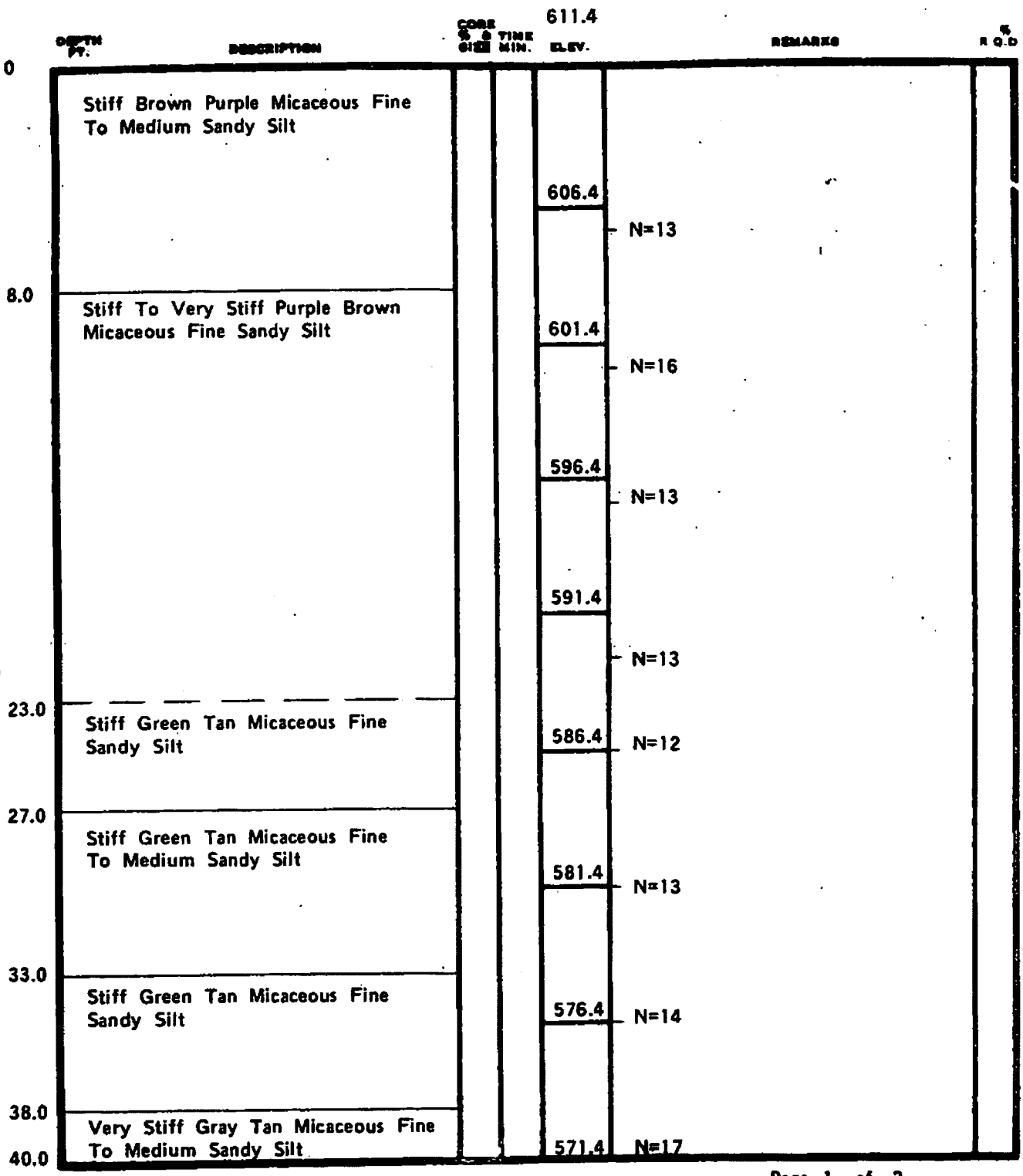
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-292
DATE DRILLED 6-26-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-3 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

% ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

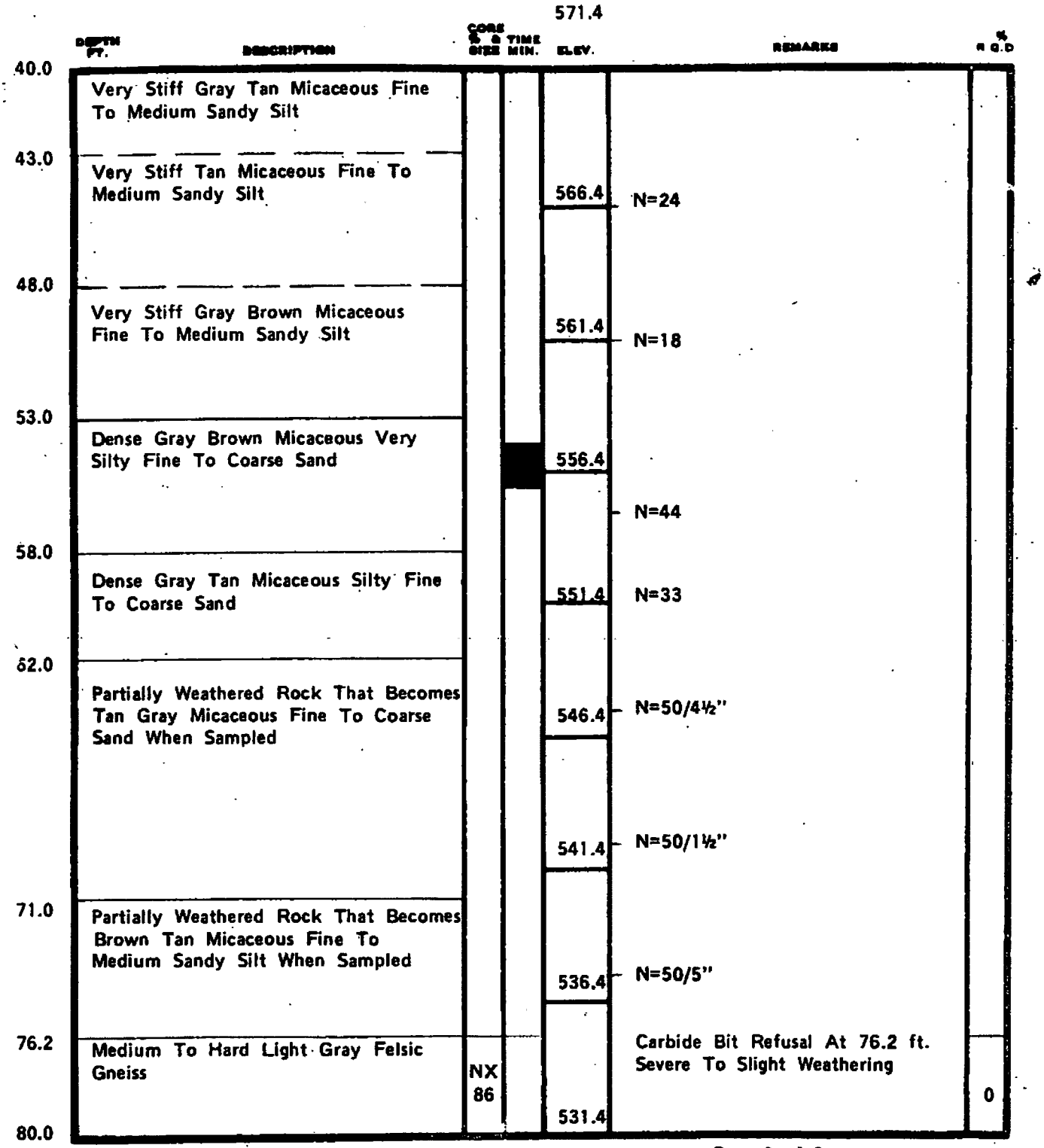
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-293
DATE DRILLED 7-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-293
DATE DRILLED 7-19-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

531.4

DEPTH FT.	DESCRIPTION	CORE SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D
80.0						
81.0	Medium To Hard Light Gray Felsic*	NX			Complete To Severe Weathering (81.0 to 83.1 ft.)	0
83.1	Very Soft To Medium Brown Gray Felsic Gneiss	86				
	Soft To Hard Light Gray Felsic Gneiss	59		526.4	Complete To Moderate Weathering (83.1 to 89.5 ft.) Blue Gray Vein (83.4 to 83.7 ft.)	16
89.5	Moderately Hard To Hard Blue Gray Felsic Gneiss	96		521.4	Moderate To Fresh Weathering (89.5 to 99.4 ft.)	76
				516.4		
99.4	Coring Terminated At 99.4 ft. No Drilling Water Loss			511.4		

*Gneiss

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE. 24 HR.
% ROCK CORE RECOVERY — WATER TABLE. 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-293
DATE DRILLED 7-19-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

606.9

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Soft Orange Tan Slightly Micaceous Slightly Clayey Fine To Coarse Sandy Silt With Rock Fragments (Quartz) And Organic Matter				N=4	
				601.9		
5.0	Stiff Pink Tan Micaceous Fine Sandy Silt				N=10	
7.0	Firm Gray Tan Pink To Gray Tan Micaceous Very Silty Fine To Coarse Sand				N=13	
				596.9		
					N=14	
				591.9		
					N=18	
				586.9		
					N=15	
				581.9		
					N=13	
				576.9		
					N=13	
				571.9		
					N=9	
				566.9		
40.0						

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-294

DATE DRILLED 2-23-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	566.9 ELEV.	REMARKS	% R.Q.D.
40.0	Firm Gray Tan Pink To Gray Tan Micaceous Very Silty Fine To Coarse Sand				N=13	
				561.9		
					N=37 Blow Count Magnified By Weathered Rock Fragments	
				556.9		
					N=15	
				551.9		
					N=24	
58.0	Very Dense Gray Tan Silty Micaceous Fine To Coarse Sand			546.9		
					N=56	
62.0	Partially Weathered Rock That Becomes Gray Tan Silty Micaceous Fine To Coarse Sand When Sampled			541.9	N=50/½"	
65.7	Hard To Very Hard Medium Light Gray Felsic Gneiss	NX 88 50			Carbide Bit Refusal At 65.7 ft. Very Slight Weathering (65.7 to 68.0 ft.) ¼ Inch Quartz Zone - Steeply Dipping	59 0
		100*		536.9	Fresh (68.0 to 74.5 ft)	100
72.0	Very Hard Medium Dark Gray And Dark Green Gray Mafic Gneiss (Amphibolite)					
74.5	Coring Terminated At 74.5 ft. Boring Caved At 23.0 ft After 24 Hours			531.9		

*Actual Run To 77.9 ft - Core Left In Hole From 74.5 to 77.9 ft.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-294
DATE DRILLED 2-23-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

601.6

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D.
0	Firm Tan Orange Micaceous Clayey Very Silty Fine To Coarse Sand				N=16	
4.0	Firm To Loose Pink Orange Tan To Gray Tan Micaceous Very Silty Fine To Coarse Sand			596.6	N=11	
					N=12	
				591.6	N=12	
				586.6	N=11	
				581.6	N=10	
				576.6	N=10	
				571.6	N=9	
34.0	Firm To Gray Tan Micaceous Very Silty Fine To Coarse Sand			566.6	N=25	
39.0	Partially Weathered Rock That Becomes*			561.6		
40.0						

*Gray Tan Micaceous Slightly Silty Fine To Coarse Sand When Sampled

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-295
DATE DRILLED 2-24-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	561.6 ELEV.	REMARKS	% R.Q.D.
40.0	Partially Weathered Rock That Becomes Gray Tan Micaceous Slightly Silty Fine To Coarse Sand When Sampled				N=50/5"	
				556.6	N=50/½"	
48.9	Hard To Very Hard Medium Light Gray Felsic Gneiss	100		551.6	Carbide Bit Refusal At 48.9 ft. Fresh With Moderately Weathered Zones (48.9 to 52.5 ft.)	72
				546.6	Fresh (52.5 to 59.6 ft.)	
		82*				
59.6				541.6		78*
	Coring Terminated At 59.6 ft. No Drilling Water Loss Boring Caved To 21.6 ft After 24 Hours					

*Core Left In Hole From About 58.7 to 59.6 ft - 100% Rec. And 95% RQD From 54.6 to 58.7 ft.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

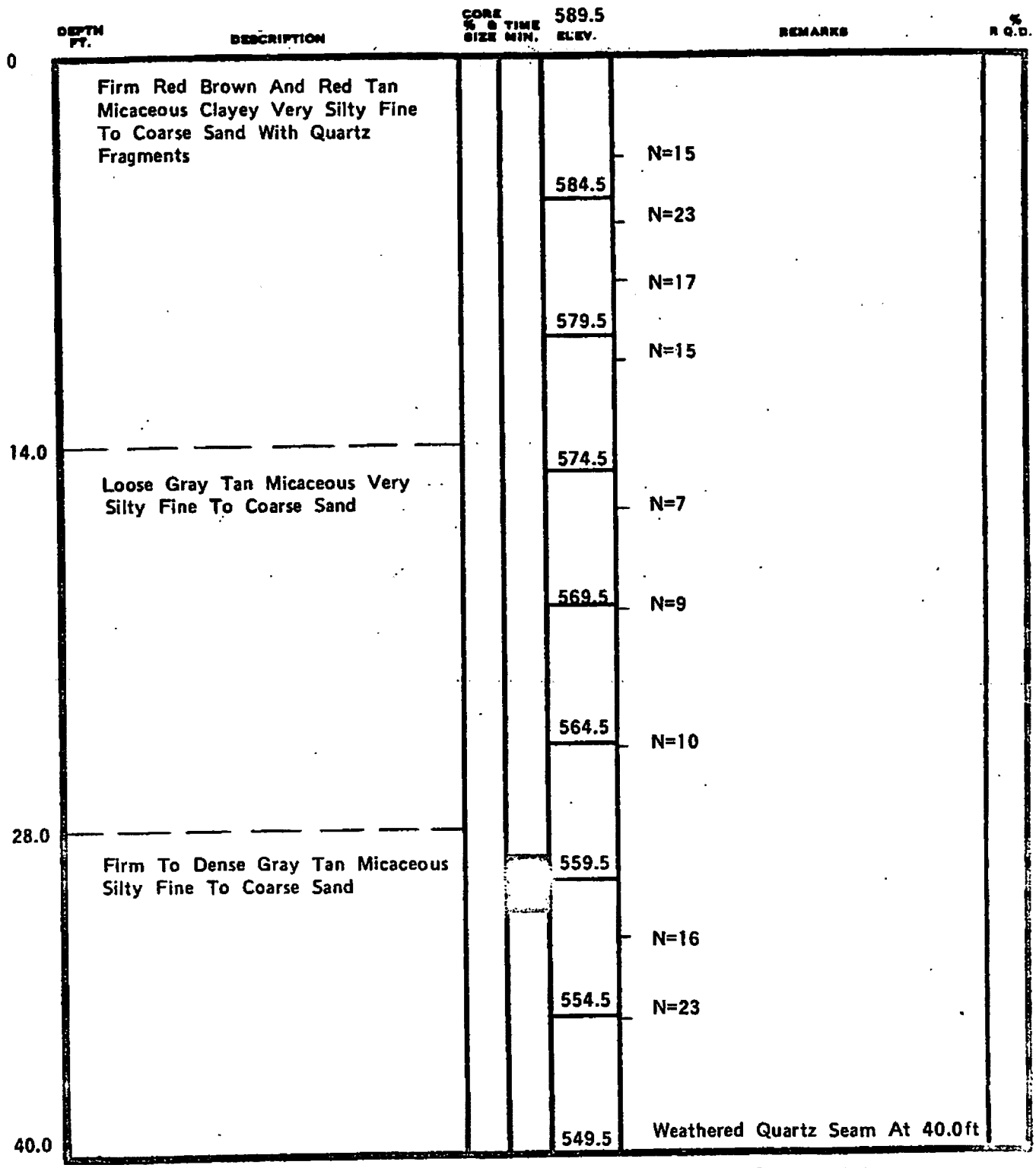
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-295
DATE DRILLED 2-24-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-296
DATE DRILLED 2-25-76
JOB NO. CH 2820

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	549.5 ELEV.	REMARKS	% R Q.D.
40.0	Firm To Dense Gray Tan Micaceous Silty Fine To Coarse Sand				N=47	
				544.5	N=45	
47.5	Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine To Coarse Sand When Sampled			539.5	N=50/4½"	
51.5	Hard Medium Light Tan Gray Felsic Gneiss	NX 100		534.5	Carbide Bit Refusal At 51.5 ft. Very Slight Weathering With Moderately Severely Weathered Zones (51.5 to 60.6 ft.) ◀ Slight	56
		98		529.5		25
60.6	Hard To Very Hard Medium Light Gray Felsic Gneiss	100		524.5	Fresh (60.6 to 69.8 ft.)	99
69.8	Coring Terminated At 69.8 ft. Drilling Water Loss Boring Caved At 14.8 ft After 24 Hours			519.5		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % - ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION ◀ LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

◀ ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-296
DATE DRILLED 2-25-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

589.8

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Firm Red Brown Micaceous Clayey Very Silty Fine To Coarse Sand				N=26	
4.0	Firm To Loose Tan Orange To Tan Pink Micaceous Very Silty Fine To Coarse Sand			584.8	N=13	
					N=11	
				579.8	N=7	
				574.8	N=7	
				569.8	N=8	
0	Stiff Olive Brown Micaceous Fine Sandy Silt			564.8	N=9	
				559.8	N=13	
				554.8	N=14	
35.0	Stiff Tan Micaceous Fine To Medium Sandy Silt					
37.0	Firm Brown Gray To Tan Gray Micaceous Very Silty Fine To Coarse Sand			549.8	N=15	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

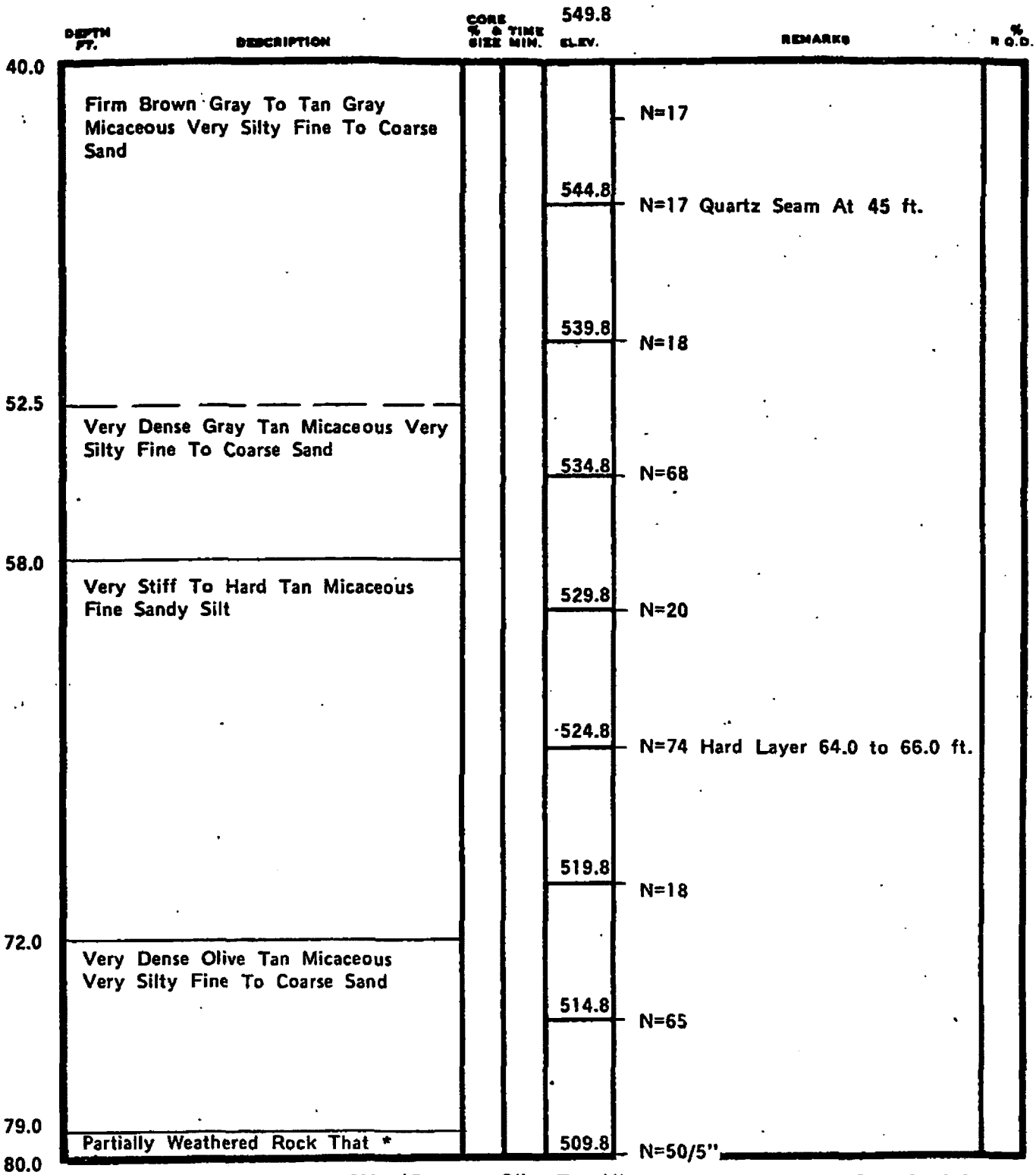
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-297
DATE DRILLED 2-26-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-6 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
36 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0°–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

*Becomes Olive Tan Micaceous Very Silty Fine To Coarse Sand When Sampled

TEST BORING RECORD

BORING NO. B-297
DATE DRILLED 2-26-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

509.8

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	ELEV.	REMARKS	% R Q.D.
80.0	Partially Weathered Rock That Becomes Olive Tan Micaceous Very Silty Fine To Coarse Sand When Sampled			504.8	N=50/4"	
				499.8	N=50/1" No Recovery	
90.0	Hard To Very Hard Medium Dark Gray Mafic Gneiss	100			Carbide Bit Refusal At 90.0 ft. Slight Weathering (90.0 to 91.8 ft.)	53
				494.8	Fresh (91.8 to 103.0 ft.) Quartz Seam At 92.9 ft.	
		100				100
				489.8		
3.0	Coring Terminated At 103.0 ft. No Drilling Water Loss Boring Caved And Dry To 17.6 ft After 24 Hours			484.8		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
% ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-297
DATE DRILLED 2-26-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

676.3

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Wash Drilled To 69.4 ft.			671.3		
				626.3		
				621.3		
				616.3		
				611.3		
69.4	Boring Terminated At 69.4 ft. Caved And Dry At 62.4 ft After 24 Hours			606.3	Carbide Bit Refusal At 69.4 ft.	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-343
DATE DRILLED 7-13-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

674.1

DEPTH FT.	DESCRIPTION	CORE % & TIME SIZE MIN.	ELEV.	REMARKS	% R.Q.D.
0	Wash Drilled To 16.9 ft.		669.1		
			664.1		
			659.1		
16.9	Boring Terminated At 16.9 ft. Caved And Dry At 14.3 ft After 24 Hours		654.1	Carbide Bit Refusal At 16.9 ft.	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-344
DATE DRILLED 7-13-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

589.6

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D
0	Very Stiff Red Brown Micaceous Fine To Medium Sandy Clayey Silt				N=18	
4.0	Stiff To Very Stiff Tan Pink Gray Micaceous Fine And Fine To Coarse Sandy Silt			584.6	N=17	
				579.6	N=15	
				574.6	N=11	
					N=13	
				569.6	N=13	
					N=11	
				564.6	N=11	
					N=15	
				559.6		
					N=17	
				554.6		
					N=11	
40.0				549.6	N=11	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-505
DATE DRILLED 6-29-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	549.6 ELEV.	REMARKS	% R Q.D.
40.0	Stiff To Very Stiff Tan Pink Gray Micaceous Fine And Fine To Coarse Sandy Silt				N=17	
				544.6	N=25	
				539.6		
50.5	Partially Weathered Rock That Becomes Tan Gray Micaceous Silty Fine To Medium Sand When Sampled				N=50/3"	
53.2					N=50/3" Auger Refusal At 53.2 ft.	
	Boring Terminated At 53.2 ft. Groundwater At 27.7 ft At Time Of Boring			534.6		

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-505

DATE DRILLED 6-29-77

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

590.7

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Firm Brown Micaceous Fine To Coarse Sandy Silt				N=6	
4.0	Firm Gray Brown Micaceous Very Silty Fine To Medium Sand			585.7	N=12	
7.0	Very Stiff To Hard Tan Gray Fine To Medium Sandy Silt			580.7	N=16	
					N=17	
				575.7		
					N=35	
				570.7		
					N=26	
				565.7		
25.0	Partially Weathered Rock That Becomes Brown Gray Micaceous Silty Fine To Medium Sand When Sampled				N=50/3"	
				560.7		
					N=50/5"	
				555.7		
35.3	Boring Terminated At 35.3 ft. No Groundwater Encountered				N=50/3"	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-506
DATE DRILLED 6-30-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

592.4

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	ELEV.	REMARKS	% R Q.D
0	Stiff Tan Brown Gray Micaceous Fine To Medium Sandy Silt			587.4		
					N=14	
					N=13	
				582.4		
					N=12	
				577.4		
					N=15	
19.0	Very Stiff To Hard Gray Micaceous Fine To Medium Sandy Silt			572.4		
					N=24	
				567.4		
					N=42	
29.0	Dense Tan Brown Micaceous Silty Fine To Coarse Sand			562.4		
					N=44	
34.0	Partially Weathered Rock That Becomes Tan Brown Micaceous Silty Fine To Coarse Sand When Sampled			557.4		
					N=50/5"	
37.0	Boring Terminated At 37.0 ft. No Groundwater Encountered				N=50/0 Auger Refusal At 37.0 ft.	
				552.4		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-507
DATE DRILLED 6-30-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

590.6

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Stiff To Very Stiff Tan Gray Micaceous Fine To Medium Sandy Silt			585.6	N=17	
				580.6	N=12	
					N=15	
				575.6	N=20	
				570.6	N=19	
				565.6	N=20	
				560.6		
30.0	Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine To Medium Sand When Sampled				N=50/4"	
34.0						
35.1	Partially Weathered Rock That *			555.6	N=50/1"	
	Boring Terminated At 35.1 ft. No Groundwater Encountered					

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

*Becomes Light Gray Brown Micaceous Silty Fine To Coarse Sand With Rock Fragments When Sampled

TEST BORING RECORD

BORING NO. B-508
DATE DRILLED 7-11-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

590.3

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D
0	Stiff To Very Stiff Olive Brown Micaceous Silt			585.3		
					N=10	
					N=11	
				580.3		
					N=13	
					N=10	
				575.3		
					N=18	
				570.3		
20.0	Partially Weathered Rock That Becomes Olive Micaceous Fine Sandy Silt With Rock Fragments When Sampled				N=50/4"	
				565.3		
25.6	Boring Terminated At 25.6 ft.				N=50/5" Auger Refusal At 25.6 ft.	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-526
DATE DRILLED 7-12-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 5

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	590.9 ELEV.	REMARKS	% R Q.D
0	Stiff Yellow Tan Micaceous Fine Slightly Sandy Silt			585.9	N=11	
					N=10	
9.0	Stiff Olive Micaceous Silt			580.9	N=12	
12.0	Partially Weathered Rock That Becomes Tan Gray Micaceous Silty Fine To Medium Sand When Sampled				N=50/5"	
15.0	Very Dense Tan Gray Micaceous Silty Fine To Coarse Sand			575.9	N=57	
18.1	Boring Terminated At 18.1 ft. Groundwater At 15.4 ft At Time Of Boring			570.9	N=50/1" Auger Refusal At 18.1 ft.	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-527
DATE DRILLED 7-12-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

590.5

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D
0	Very Stiff Olive Micaceous Fine Sandy Silt			585.5	N=20	
				580.5	N=23	
				575.5	N=19	
				570.5	N=50/6"	
21.0	Partially Weathered Rock That Becomes Tan Brown Micaceous Fine To Medium Sandy Silt When Sampled					
24.0	Partially Weathered Rock That *			565.5	N=50/2"	
25.2	Boring Terminated At 25.2 ft. Groundwater At 15.8 ft At Time Of Boring					

BORING AND SAMPLING MEETS ASTM D-1586 *Becomes Gray Micaceous Silty Fine To Coarse Sand When Sampled

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-528

DATE DRILLED 7-13-77

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

589.5

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R.Q.D.
0	Firm Tan Yellow Gray Micaceous Very Silty Fine To Medium Sand			584.5	N=11	
					N=11	
				579.5		
10.0	Dense Tan Micaceous Silty Fine To Medium Sand				N=50	
				574.5		
15.0	Partially Weathered Rock That Becomes Gray Tan Micaceous Very Silty Fine To Medium Sand When *				N=50/5" Auger Refusal At 18.0 ft.	
18.0	Boring Terminated At 18.0 ft. Groundwater At 16.0 ft At Time Of Boring			569.5		

BORING AND SAMPLING MEETS ASTM D-1586 *Sampled

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-529

DATE DRILLED 7-12-77

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	ELEV.	REMARKS	% R Q.D.
0	Stiff Tan Red Fine To Medium Sandy Clayey Silt				N=14	
4.0	Stiff To Very Stiff Tan Brown Gray Micaceous Fine To Medium Sandy Silt			599.8	N=12	
				594.8	N=19	
				589.8	N=10	
					N=9	
				584.8	N=13	
					N=25	
25.0	Dense Tan Brown Micaceous Silty Fine To Medium Sand			579.8	N=40	
30.0	Partially Weathered Rock That Becomes Tan Brown Micaceous *			574.8	N=50/4"	
32.0	Boring Terminated At 32.0 ft. Groundwater At 29.0 ft After 24 Hours			569.8		

BORING AND SAMPLING MEETS ASTM D-1586 *Silty Fine To Coarse Sand When Sampled

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-530

DATE DRILLED 7-13-77

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	590.1 ELEV.	REMARKS	% R.Q.D
0	Stiff to Very Stiff Rust Gray Micaceous Fine Sandy Silt			585.1	N=21	
				580.1	N=15	
14.0	Very Stiff Gray Tan Micaceous Fine to Medium Very Sandy Silt			575.1	N=23	
19.0	Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine to Medium Sand When Sampled			570.1	N=50/4"	
22.5	Boring Terminated at 22.5 Ft. No Drill Water Loss Groundwater at 16.5 Ft. After 24 Hour No Drill Water Loss			565.1	Carbide Bit Refusal at 22.5 Ft.	

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-558
DATE DRILLED 11-10-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

FT.	DESCRIPTION	SIZE MIN.	ELEV.	REMARKS	RQD
0	Fill Concrete		542		
5			537	6.9' to 11.5' moderately severe moderate weathering	6. 0 8.
6.9'	Moderately Hard, Light Gray Felsic Gneiss	NX 85			
10			532	9.2', open joint, steep dip, quartz-mica coated, Mn-stained 11.5', quartz vein with open vugs 11.9' to 18.4', open joints, closely spaced, medium to steep dips, coated with quartz-mica	62
11.9'	Hard to Very Hard, Light Gray Felsic Gneiss	NX 92			
15			527	11.5' to 38.0', slight to very slight weathering	18
20			522	20.1' } quartz veins with open 21.0' } vugs	
		NX 100		18.4' to 38.0' open joints, steep dip, wide spacing, quart-chlorite coated	81
25			517		
					28
30			512		
		NX 100			98
35			507		
					38
40	Coring Terminated at 38.0'		502		

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°

N - STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°

R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-682

DATE DRILLED 4/4/79

JOB NO. ~~Cherokee~~

DEPTH FT.	DESCRIPTION	SIZE MIN.	ELEV.	REMARKS	R Q D
0	Fill Concrete		542		
5			537		
	8.3'			8.3' to 17.3', moderately weathered	8.
10	Moderately Hard, Light Gray Felsic Gneiss	NX 91	532	8.3' to 22.0', joints, medium to steep dip, closely spaced, some open, quartz-chlorite coated.	41 10
15		NX 96	527	17.3' to 33.7', very slight weathering to unweathered	61
	17.3'				
20	Hard to Very Hard, Light Gray Felsic Gneiss		522	22.0' to 35.7', joints, steep dips, moderately close spacing, quartz-chlorite-mica coated, closed.	18
25		NX 97	517		76
30			512		28
		NX 100		33.7' to 35.7', unweathered. 34.8', calcite vein, steep dip	100
	33.7'				
35	Hard to Very Hard, Dark Gray Mafic Gneiss		507		35
	Coring Terminated at 35.7'				
40			502		

Page 1 of 1

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINTS:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-683
DATE DRILLED 3-30-79
JOB NO. Cherokee

FT.	DESCRIPTION	SIZE MIN.	ELEV.	REMARKS	RQD
0	Fill Concrete		542		
5			537		
	8.0'			8.0' to 11.0', moderate weathering	8.
10	Moderately Hard, Light Gray Felsic Gneiss	NX 53		8.0' to 11.0', joints, medium dip, close spacing, open	22
	11.0'		532	11.0' to 37.8', very slight weathering to unweathered	11
	Hard to Very Hard, Light Gray Felsic Gneiss	NX 99		11.0' to 30.3', joints, medium to steep dips, moderately close to close spacing, most closed, quartz-mica-chlorite coated.	89
15			527		
				17.8' to 18.8', shear-breccia zone, anostomosing planes of chlorite surround sub-angular fragments of felsic gneiss, veins of K-feldspar cut across zone, moderately weathered near top of zone	18
20		NX 95	522		82
25			517	24.3' to 25.6' } 1/4" to 1/2" thick quartz veins	
					28
30	30.3'			30.0', quartz pod	
	Very Hard, Dark Gray Mafic Gneiss	NX 100	512	30.3' to 37.8', joints, medium to steep dips, closed, generally coated by calcite but some quartz is present	100
35			507		
	Coring Terminated at 37.8'				37
40			502		

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

30 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0–30°

M = MED. DIP 30°–60°

S = STEEP DIP 60°–90°

Page 1 of 1

TEST BORING RECORD

BORING NO. B-684

DATE DRILLED 3-29-79

JOB NO. Cherokee

B-684

FT.	DESCRIPTION	SIZE MIN.	ELEV.	REMARKS	RQD
70			522.8		
	Carbide Refusal at 73.9'				73
75	Moderately Hard, Dark Gray Mafic Gneiss	NX 22	517.8	73.9' to 81.3', moderately severe weathering	0
80	81.3'		512.8	81.3' to 92.0', slight weathering 82.7', open joint, steep dip, quartz-chlorite coated	80
	Moderately Hard to Hard, Light Gray Felsic Gneiss	NX 49	507.8		24
85					
90		NX 24	502.8		89 0 90
	92.0'				
	Hard to Very Hard, Light Gray Felsic Gneiss	NX 99	497.8	92.0' to 99.3', unweathered 97.0', open joint, steep dip, quartz-chlorite coated	88
95					
100	Coring Terminated at 99.3'		492.8	Joints have wide spacing.	99
105			487.8		
110			482.8		

Page 1 of 1

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR. — ROCK JOINT:
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR. — L = LOW DIP 0–30°
N - STANDARD PENETRATION — LOSS OF DRILLING WATER — M = MED. DIP 30°–60°
R.Q.D. ROCK QUALITY DESIGNATION — S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-685
DATE DRILLED 4-10-79
JOB NO. Cherokee

FT.	DESCRIPTION	SIZE MIN.	ELEV.	REMARKS	R.Q.D
40			553.4		
45	Carbide Refusal at 45.1'				45
	Hard to Very Hard, Light Gray Felsic Gneiss	NX 80	548.4	45.1' to 49.0', moderate to very slight weathering 45.4', joint, steep dip, Mn-coated	41
50		NX 74	543.4	48.8', quartz vein with Mn-staining, medium dip 49.0' to 68.8', unweathered, joints, medium to steep dips, moderately close, healed by quartz-mica-chlorite, possible calcite	49 34 52
55		NX 89	538.4		65
60				54.1' 54.2' 61.4' 62.4' 64.1' joints, steep dips, open, coated by quartz-mica	59
			533.4		
65		NX 100			97
			528.4		
70	Coring Terminated at 68.8'				68
			523.4		
75			518.4		
80			513.4		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-686
DATE DRILLED 4-6-79
JOB NO. Cherokee

FT.	DESCRIPTION	SIZE MIN.	ELEV.	REMARKS	RQD
20			556.8		
	Carbide Refusal at 23.1'				23
	Moderately Hard, Light Gray Felsic Gneiss	NX 90		23.1' to 26.1', moderate to slight weathering 26.1' to 49.4', slight weathering to unweathered	42
25			551.8		
				23.1' to 49.4', joints, medium to steep dips, close to very close spacing, some open, majority mineralized with combinations of quartz, chlorite, mica and calcite, some Mn-staining near surface.	28
30		NX 43	546.8		26
35			541.8		
	37.5' Hard, Dark Gray Mafic Gneiss				37
40	38.5'	NX 87			56
	Hard to Very Hard, Light Gray Felsic Gneiss		536.8		42
45		NX 98	531.8	46.7', shear zone, anastomosing steeply dipping planes, healed by quartz-chlorite, slickensides on planes oriented oblique to axis of core	95
50	Coring Terminated at 49.4'		526.8		49
55			521.8		
60			516.8		

Page 1 of 1

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N = STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. B-687
DATE DRILLED 4-9-79
JOB NO. Cherokee

DEPTH FT.	DESCRIPTION	CORE SIZE	% @ TIME MIN.	ELEV.	REMARKS	% R Q.D.
0				589.6		
	Wash Drilled Without Sampling					
				584.6		
				579.6		
				574.6		
				569.6		
				564.6		
				559.6		
				554.6		
				549.6		
40.0						

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 3

TEST BORING RECORD

BORING NO. BW-44
DATE DRILLED 10-26-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	549.6 ELEV.	REMARKS	% R.Q.D.
40.0	Wash Drilled Without Sampling					
				544.6		
				539.6		
				534.6		
				529.6		
				524.6		
				519.6		
				514.6		
80.0				509.6		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.

50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.

N - STANDARD PENETRATION — LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. BW-44
DATE DRILLED 10-26-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	509.6 ELEV.	REMARKS	% R.Q.D.
80.0	Wash Drilled Without Sampling			504.6		
90.0	Boring Terminated at 90.0 Ft. Installed Observation Well to 90.0 Ft.			499.6		

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

TEST BORING RECORD

BORING NO. BW-44
DATE DRILLED 10-26-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

FORM M-27A	REVISION 1
	PAGE 1 OF 1

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT Cherokee

SOIL TEST BORING FIELD REPORT

JOB NO. 781-2 STARTING TIME
JOB NAME Cherokee GROUND SURFACE ELEV. 595.58
DATE 10-26-79 WEATHER Clear Warm INSPECTOR Ellenburg HRS. DRILLING HRS. MOVING BORING NO. BW-44

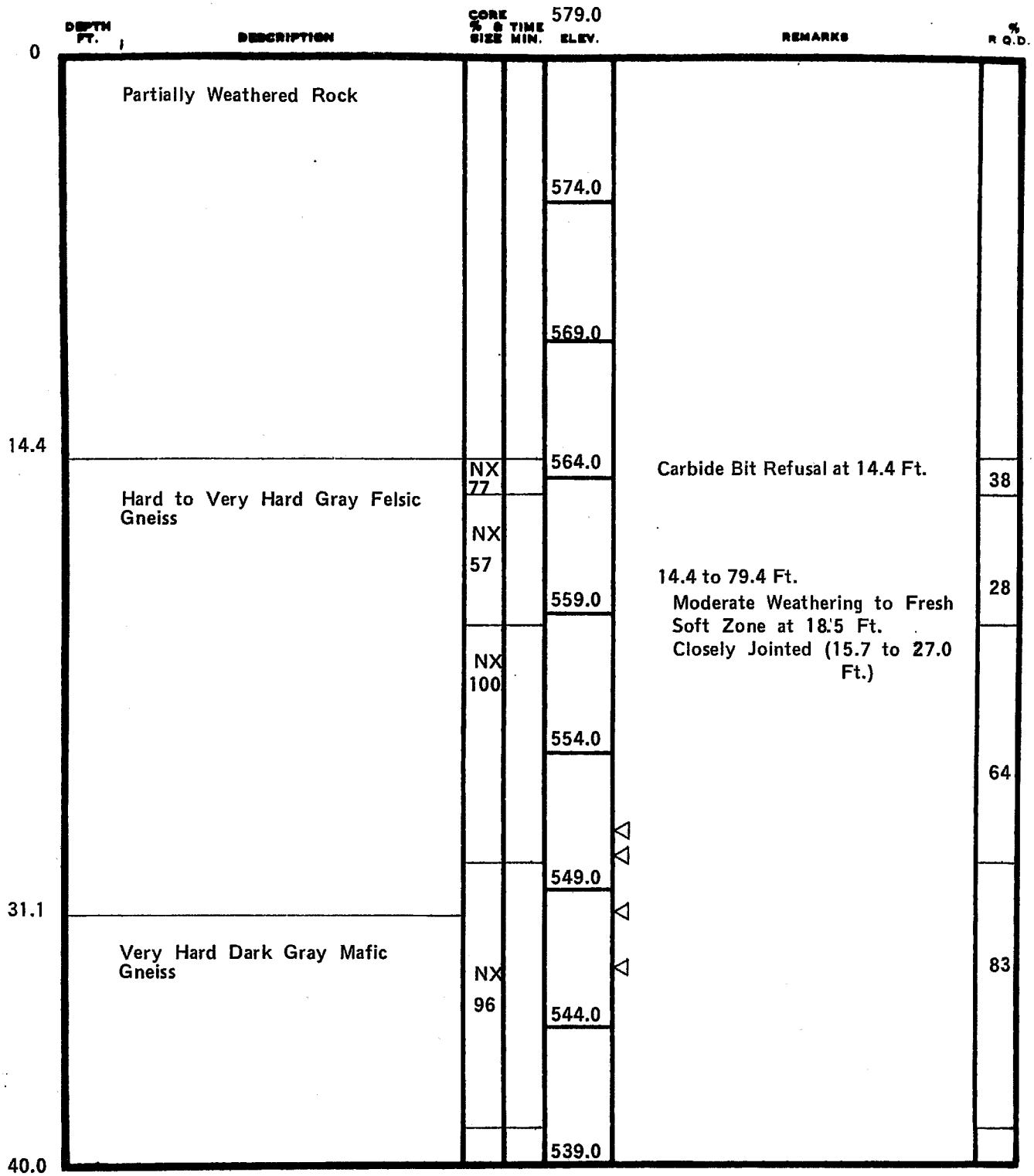
SAMPLING 1ST 6"	2ND 6"	3RD 6"	SCALE	UD	SOIL CLASSIFICATION AND REMARKS
			80		Drilled in soil 0.0'-90.0'
			85		
			90		Terminated
					Set PVC to bottom of hole
			95		
			100		
			105		
			110		
			115		
			120		

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES

BORING TERMINATED 90.0'
BORING REFUSAL —
WATER TOB DEPTH
WATER 24 HR: DEPTH
WATER LOSSES None
CASING SIZE N/A LENGTH 60.0'

METHOD OF ADVANCING BORING	DEPTH
POWER AUGER	TO
HAND CHOP: W/MUD: W/WATER	TO
ROTARY DRILL: W/MUD: W/WATER	00' TO 90.0'
DIAMOND CORE	— TO —

APPROVED BY DATE
QUALITY ASSURANCE



BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 1 of 2

TEST BORING RECORD

BORING NO. BW-45
DATE DRILLED 10-2477
JOB NO. CH2920

LAW ENGINEERING TESTING CO.

DEPTH FT.	DESCRIPTION	CORE % & SIZE	TIME MIN.	539.0 ELEV.	REMARKS	% R.Q.D.
40.0	Very Hard Dark Gray Mafic Gneiss	NX 100				
43.4	Very Hard Gray Felsic Gneiss			534.0		86
		NX 98		529.0		
				524.0		63
		NX 100		519.0	Mafic Gneiss (60.2 to 60.9 Ft.)	
63.1	Very Hard Dark Gray Mafic Gneiss			514.0		93
		NX 100		509.0		94
75.3	Very Hard Gray Felsic Gneiss	NX 100		504.0		97
79.4	Coring Terminated at 79.4 Ft.*			499.0		

*Installed Observation Well at 79.4 Ft.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50 % ROCK CORE RECOVERY — WATER TABLE, 1 HR.
N - STANDARD PENETRATION — LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

ROCK JOINT:
L = LOW DIP 0–30°
M = MED. DIP 30°–60°
S = STEEP DIP 60°–90°

Page 2 of 2

TEST BORING RECORD

BORING NO. BW-45
DATE DRILLED 10-14-77 10-24-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

FORM M-27A	REVISION 1
	PAGE 1 OF 2

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT Cherokee

SOIL TEST BORING FIELD REPORT

STARTING TIME
JOB NO. XSI-B — GROUND SURFACE ELEV. ~~59~~ 579.02
JOB NAME Cherokee — HRS. DRILLING ____ HRS. MOVING ____
DATE 10-24-77 — WEATHER Cloudy, Warm — INSPECTOR Ellenburg — BORING NO. BW-45

SAMPLING				SCALE	UD	SOIL CLASSIFICATION AND REMARKS
	1ST 6"	2ND 6"	3RD 6"			
				0		
						Weath Material
				5		
				10		
14.4' ←						→ CARBIDE REFUSAL
1.3' RUN	1.0' Rec.	77% RQD		15		Grey Moderately/Slight Weath. Moderately Hard Felsic Gneiss
15.7' ←						→ END RUN
4.6'	RUN	1.3'	RQD			14.9' Very Close Joint
2.6'	Rec.	28% RQD		185		Soft Seam
57%	Rec.					Grey Moderately/Slight Weath. Moderately Hard Felsic Gneiss — (Rock is Closely Jointed)
20.3' ←				20		→ END RUN
8.7'	RUN	5.6'	ROD			Grey - 20.3'-23.0' Moderately Weath. Moderately Hard Felsic Gneiss Closely Jointed
8.7'	Rec.	64%	RQD			
100%	Rec.			RUN		Grey - 23.0'-25.4' Very Slight Weath. Hard Felsic Gneiss
				25.4		Grey - 25.4'-27.0' Moderately/Slight Moderately/Hard Felsic Gneiss (Closely Jointed)
						Grey - 27.0'-29.0' Very Slight Weath. Hard Felsic Gneiss (28.0' Very Close Joint)
29.0' ←						→ END RUN
9.5'	RUN	8.2'	RQD	30		Grey 29.0'-31.0' Very Slight/Fresh Weath. Felsic Gneiss
9.5'	Rec.	83%	RQD			29.2'- Very Close Joint
96%	Rec.					30.8' " " " (Vertical)
						Grey/Black 31.0'-38.9' Fresh Weath Very Hard Mafic Gneiss
						32.9' Very Close Joint
				35		
38.9' ←						→ END RUN
9.7'	RUN	100%	Rec.	40		86% RQD Grey/Black - 38.9'-43.4' Fresh Weath. Very Hard
9.7'	Rec.	8.3'	RQD			42.8'- Very Close Joint Mafic Gneiss

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES

BORING TERMINATED 79.4'
BORING REFUSAL 14.4'
WATER TOB DEPTH ____
WATER 24 HR: DEPTH ____
WATER LOSSES None
CASING SIZE N.W. LENGTH ~~25~~ 15.4'

METHOD OF ADVANCING BORING	DEPTH
POWER AUGER	TO
HAND CHOP: W/MUD: W/WATER	TO
ROTARY DRILL: W/MUD: W/WATER	0.0 TO 14.4
DIAMOND CORE	14.4 TO 79.4

APPROVED BY ____ DATE ____
QUALITY ASSURANCE

FORM M-27A	REVISION 1
	PAGE 2 OF 2

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT Cherokee

SOIL TEST BORING FIELD REPORT

JOB NO. X81-B — STARTING TIME
JOB NAME Cherokee — GROUND SURFACE ELEV. 579.02
DATE 10-25/27 — WEATHER Cloudy Warm — HRS. DRILLING — HRS. MOVING
INSPECTOR Ellenberger — BORING NO. BW-45

SAMPLING				SCALE	UD	SOIL CLASSIFICATION AND REMARKS
	1ST 6"	2ND 6"	3RD 6"			
				40		43.4'-48.6' Grey Fresh Weath. Very Hard Felsic Gneiss
						43.9' Very Close Joint
						44.4' " " "
						45.4' " " "
				45		46.1'-46.5' Closely Jointed
48.6'	←					→ END RUN
8.5'	RUN	5.4'	RQD			Grey Fresh Weath. Very Hard Felsic Gneiss
8.3'	Rec.	63%	RQD	50		49.6' Very Close Joint
98 %	Rec.					Low RQD due to the fact 2.0' was left in the hole because of lifter - (Rock was broken in small pieces)
				55		
57.1'	←					→ END RUN
8.1'	RUN	7.5'	RQD			Grey Fresh Weath Very Hard Felsic Gneiss
8.1'	Rec.	93%	RQD			58.4' Very Close Joint (Vertical)
100 %	Rec.			60		(60.2'-60.9' Mafic Gneiss Seam)
						61.8' Very Close Joint
						63.1' Grey/Black Fresh Weath. Very Hard Mafic Gneiss
						65.2'
65.2'	←					→ END RUN
7.8'	RUN	7.3'	RQD	65		Grey/Black Fresh Weath. Very Hard Mafic Gneiss
7.8'	Rec.	94%	RQD			67.9' Very close Joint (Vertical)
100%	Rec.					
				70		
73.0'	←					→ END RUN
6.4'	RUN	6.2'	RQD			73.0'-75.3' Grey/Black Fresh Weath Very Hard Mafic Gneiss
6.4'	Rec.	97%	RQD	75		75.3'-79.4' Grey Fresh Weath. Very Hard Felsic Gneiss
100%	Rec.					
79.4'	←					→ Terminated 10-25/27
				80		Set PVC To Bottom of Hole

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES

BORING TERMINATED 79.4'
BORING REFUSAL 19.4'
WATER TOB DEPTH
WATER 24 HR: DEPTH
WATER LOSSES None
CASING SIZE NW LENGTH 19.4'

METHOD OF ADVANCING BORING	DEPTH
POWER AUGER	TO
HAND CHOP: W/MUD: W/WATER	TO
ROTARY DRILL: W/MUD: W/WATER	0.0 TO 19.4
DIAMOND CORE	19.4 TO 79.4

APPROVED BY _____ DATE _____
QUALITY ASSURANCE