

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 | |

| DEPTH FT. | DESCRIPTION | CORE % TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|--|-----------------------------------|---------|--------|
| 0 | Very Stiff Orange Slightly Clayey Fine To Medium Sandy Silt | 597.4 | | |
| 6.0 | Firm Yellow Tan Very Sandy Silt | 592.4 N=18 | | |
| | | 587.4 N=8 | | |
| | | 582.4 N=7 | | |
| | | 577.4 N=11 | | |
| 22.0 | Firm Tan Gray Very Silty Fine To Medium Sand | 572.4 N=18 | | |
| | | 567.4 N=23 | | |
| 34.0 | Very Dense Gray and Yellow Tan Very Silty Fine To Medium Sand | 562.4 N=63 | | |
| 36.0 | Partially Weathered Rock That Becomes Gray And Yellow Tan Very Silty To Silty Fine To Medium Sand When Sampled | N=50/3" | | |
| 40.0 | | 557.4 | | |

| DEPTH FT. | DESCRIPTION | CORE % TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|---|-----------------------------------|---|--------|
| 40.0 | Partially Weathered Rock That Becomes Gray And Yellow Tan Very Silty To Silty Fine To Medium Sand When Sampled —Quartz Fragments At 43 Ft. | | | |
| 43.8 | Hard Light Bluish Gray Felsic Gneiss | NX 89 552.4 | N=50/4 In. Carbide Bit Refusal At 43.8 ft. 43.8 Ft - 51.5 Ft: Slight Weathering. Close Joints - Low To Medium Dip-Oxide And Clay Coated: | 47 |
| | | 547.4 | 51.5 Ft - 61.6 Ft: Severe To Moderately Severe Weathering. Very Close Joints - Low To Steep Dip | |
| 51.5 | Moderately Hard Yellowish Gray Felsic Gneiss | 82 542.4 | Very Close Healed Joints - Many Leached - Low To Steep Dip (43.8 Ft - 137.5 Ft) | 28 |
| | | 537.4 | | 0 |
| 61.6 | Partially Weathered Rock | 0 | | 0 |
| 63.6 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | 96 532.4 | N=50/0 In. Top Of Continuous Rock At 68.6 Ft 63.6 Ft - 68.8 Ft: Moderate Weathering. Close Joints - Low To Steep Dip. | 50 |
| 68.8 | Hard Light Bluish Gray Felsic Gneiss | 98 527.4 | 68.8 Ft - 121.5 Ft: Slight Weathering. Close Joints - Low To Steep Dip-Coated With Oxides, Epidote And Clay | |
| | | 522.4 | Steeply Dipping Pegmatite Vein (76.0 Ft - 76.5 Ft) Severe Leaching Along Joints (75.0 Ft - 76.5 Ft) Schistose Zones - 1/8 In. Thick-Low To Medium Dip (75.0 Ft) | 74 |
| 80.0 | | 99 517.4 | | 71 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 84 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 4
TEST BORING RECORD

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

ROCK JOINT:
L = LOW DIP 0°-45°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 84 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 4
TEST BORING RECORD

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

ROCK JOINT:
L = LOW DIP 0°-45°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|-------------|---------------------------------|-------|--|--------|
| 0 | | | 575.4 | | |
| | | N=17 | 570.4 | Firm Red-Brown Silty Very Slightly Clayey Fine Sand | |
| | | | 565.4 | | |
| | | N=16 | 560.4 | Very Stiff Dark Brown Very Micaceous Silt | |
| | | | 555.4 | | |
| | | N=17 | 550.4 | Very Stiff Light Brown- Gray Micaceous Sandy Silt | |
| | | | 545.4 | | |
| | | N=42 | 540.4 | Dense Tan Moderately Micaceous Silty Fine To Medium Sand | |
| 40.0 | | | 535.4 | | |

Page 1 of 3

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|---|--------|
| 40.0 | | | 535.4 | | |
| | | N=59 | 530.4 | Very Dense Tan Moderately Micaceous Silty Fine To Medium Sand | |
| | | N=42 | 525.4 | Dense Tan Moderately Micaceous Silty Fine To Medium Sand | |
| | | N=45 | 520.4 | Hard Tan-Light Brown Slightly Micaceous Silty Fine To Coarse Sand | |
| | | N=50/2" | 515.4 | | |
| 54.3 | Partially Weathered Rock That Becomes Tan-Brown Fine To Medium Sandy Silt When Sampled | | 510.4 | | |
| | | N=50/2" | 505.4 | No Recovery | |
| | | N=50/0" | 500.4 | NW Casing To 64.0 ft. | |
| | | N=50/1" | 495.4 | No Recovery | |
| | | N=50/0" | | | |
| 80.0 | | | 495.4 | | |

80.0

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°-40°

S = STEEP DIP 40°-90°

TEST BORING RECORD

BORING NO. B-39P

DATE DRILLED 10-25-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

*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.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE S. & T. TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-----------------------------------|-------|---|--------|
| 80.0 | Partially Weathered Rock That Becomes Tan-Brown Fine To Medium Sandy Silt When Sampled | * | 495.4 | | |
| 82.7 | Hard To Moderately Hard To Moderately Hard Very Light Gray Felsic Gneiss | NX 98 | 490.4 | Carbide Bit Refusal At 82.7 ft. 82.7 ft to 86.7 ft.: Moderate To Moderately Severe Weathering. Close To Very Close Joints - Low To Medium Dip. Very Close Healed And Slightly Leached Joints, Many With Epidote - Low To Steep Dip. | 38 |
| 85.7 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 100 | 485.4 | L | 100 |
| 94.5 | Coring Terminated At 94.5 ft. Groundwater At 11 ft. After 24 Hours No Drilling Water Loss | | 480.4 | L MS S Severely Weathered Zone (86.3 to 86.7 ft.) 86.7 ft to 94.5 ft.: Slight To Very Slight Weathering. Very Close Healed And Rarely Leached Joints With Epidote And Calcite - Low To Steep Dip. | |

| DEPTH FT. | DESCRIPTION | CORE S. & T. TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-----------------------------------|-------|--|--------|
| 0 | Firm to Very Dense Orange to Gray And Tan Very Silty Fine To Coarse Sand | | | N=26 | |
| | | | 573.7 | | |
| | | | 568.7 | N=88 | |
| 10.0 | Partially Weathered Rock That Becomes Tan Gray Silty Fine to Medium Sand When Sampled -Fine to Medium Sandy Silt Seams at 15 ft and 33 ft. | | 563.7 | N=50/5-1/2 in. | |
| | | | 558.7 | N=50/3 in. | |
| | | | 553.7 | N=50/4-1/2 in. | |
| | | | 548.7 | N=50/5 in. | |
| 33.8 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 543.7 | N=50/3 in. Carbide Bit Refusal And Top of Continuous Rock 33.8 ft Steep Dip, Healed, Leached Joints (33.8 ft - 34.9 ft) | 90 |
| 40.0 | | 100 | 538.7 | 33.8 ft - 40.0 ft: Slight Weathering.* | 100 |

BORING AND SAMPLING MEETS ASTM D-1586 *Undisturbed Samples Where
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-39P

DATE DRILLED 10-25-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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

TEST BORING RECORD

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BORING NO. B-40

DATE DRILLED 7-24-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % RECOVERED | TIME PER FEET MIN. | ELEV. | REMARKS | % R.Q.D. | | |
|-----------|---|------------------------|--------------------------|-------|---|-------------|---|----|
| 40.0 | Very Hard Light Bluish Gray False Gneiss | NX 100 | | 533.7 | 40.0 ft - 54.5 ft: Very Slight Weathering Close Healed Joints-Medium to Steep Dip | 100 | | |
| | | | | 528.7 | | | 1/2 in. Thick Medium Dip Quartz Vein (49.8 ft) Very Close Low Dip Joints (51.7 ft - 52.4 ft) | 93 |
| 54.5 | | | | 523.7 | | | | |
| | Coring Terminated at 54.5 ft Groundwater At 18.0 ft At Time Of Boring Groundwater At 19.0 ft After 24 Hours No Drilling Water Loss | | | | Note: Rock Contains Xenoliths of Fine Grained Mafic Gneiss Up to 1/2 in. Diameter | | | |

| DEPTH FT. | DESCRIPTION | CORE % RECOVERED | TIME PER FEET MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|------------------------|--------------------------|-------|---------|-------------|
| 0 | Stiff Red Slightly Clayey Sandy Silt | | | 675.4 | N=13 | |
| 6.0 | | | | 670.4 | | |
| | Very Stiff To Stiff Red Tan Fine To Coarse Sandy Silt With Varying Amounts Of Mica | | | 665.4 | N=21 | |
| 18.0 | | | | 660.4 | N=13 | |
| | Stiff To Very Stiff Red Tan Fine To Coarse Sandy Silt With Varying Amounts Of Mica | | | 655.4 | N=23 | |
| | | | | 650.4 | N=28 | |
| 35.0 | | | | 645.4 | N=28 | |
| 40.0 | Hard Tan Gray Fine To Coarse Sandy Micaceous Silt | | | 640.4 | N=33 | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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-40
DATE DRILLED 7-26-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 5
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------------|---------|-------------|
| 40.0 | Hard Tan Gray Fine To Coarse Sandy Micaceous Silt | | | |
| | | N=36 | | |
| | | 635.4 | | |
| | | N=61 | | |
| | | 630.4 | | |
| | | N=47 | | |
| | | 625.4 | | |
| | | N=58 | | |
| | | 620.4 | | |
| | | N=35 | | |
| | 615.4 | | | |
| | N=39 | | | |
| | 610.4 | | | |
| 78.0 | Partially Weathered Rock That Becomes Tan Fine to Coarse Sandy Micaceous * | | | |
| 80.0 | | N=50/3" | 600.4 | |

BORING AND SAMPLING MEETS ASTM D-1586 * Silt
 CORE DRILLING MEETS ASTM D-3119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 5
TEST BORING RECORD

BORING NO. B-41
 DATE DRILLED 7-2-73
 JOB NO. CH 2020
 LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. | |
|--------------|---|--|--|--|----|
| 80.0 | Partially Weathered Rock That Becomes Tan Fine to Coarse Sandy Micaceous Silt | | | | |
| | | N=50/2" | | | |
| | | 595.4 | | | |
| | | 590.4 | | | |
| 92.6 | | Hard Very Light Gray Medium Grained Granite Pegmatite | NX | N=25/0" Carbide Bit Refusal @ 92.6 ft. Slight Weathering (92.6 - 95.5 ft). | |
| 95.5 | | Moderately Hard to Hard Very Light Gray Fine to Medium Grained Felsic Gneiss | 99 | Very Close Healed Joints - Low to Steep Dip - Occasionally Leached (92.6 ft - 177.1 ft). | 69 |
| | | | | Moderate Weathering (95.5 - 111.0 ft). | |
| | | | | Close Joints - Generally Clean - Low to Medium Dip (92.6 - 153.6 ft). | |
| | | | 100 45 | | 65 |
| | | | 575.4 | | |
| 109.0 | Hard Very Light Gray Fine to Medium Grained Granite Pegmatite | | 3 inch Soft Severely Weathered Zone at 108.0 ft | | |
| 111.0 | Very Soft Yellow Gray Fine * | | Severe Weathering (111.0-112.0 ft) | | |
| 112.0 | Hard Very Light Gray Granite Pegmatite | | Moderate Weathering (112.0-114.0 ft) | 24 | |
| 114.0 | Moderately Hard Very Light Gray Granite Pegmatite | 87 40 | Moderately Severe Weathering (114.0 ft - 115.5 ft) | | |
| 115.5 | Very Soft Yellow Gray Fine Grained Felsic Gneiss | | Severe Weathering (115.5-118.0 ft) | | |
| 118.0 | Moderately Hard Very Light Gray Felsic Gneiss | 83 | Moderate Weathering (118.0 ft - 120.0 ft) | 51 | |
| 120.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Grained Felsic Gneiss
 CORE DRILLING MEETS ASTM D-3119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 3 of 5
TEST BORING RECORD

BORING NO. B-41
 DATE DRILLED 7-2-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME DIA MIN. | 560.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|--------------------------------|----------------|--|-------------|
| 120.0 | Hard to Very Hard Very Light Felsic Gneiss | NX | | Slight Weathering (120.0 ft - 134.5 ft) | 51 |
| | | 87 | 555.4 | | |
| | | | 550.4 | | |
| | | | 545.4 | Top Of Continuous Rock 133.5 Ft. | |
| 134.5 | Moderately Hard Yellow Gray Felsic Gneiss | | | Moderate Weathering (134.5-137.0 ft). Steep Joints Contain Granular Material and are Leached (134.5 ft - 137.0 ft) | 62 |
| 137.0 | Hard Very Light Gray Felsic Gneiss | | | Slight Weathering (137.0 ft-142.8 ft) | |
| | | | 540.4 | ◁ S | |
| | | | | ◁ S | |
| 142.8 | Smokey to Milky Quartz Vein | | | | 34 |
| 145.0 | Medium to Moderately Hard Very Light Gray to Yellow Gray Granite Pegmatite | | | 145.0 ft - 150.6 ft; Moderate Weathering Steep Joint (s) with Severe Leaching. | |
| | | | 535.4 | | |
| | | | 530.4 | | |
| 150.6 | Moderately Hard to Hard Very Light Gray Felsic Gneiss | | | Calcareous, Micaceous Contact Zone (153.5 - 153.7 ft). ◁ M slickensided Surface At 152.7 ft ◁ L Slickensided Surface At 153.4 ft | 84 |
| 153.6 | Hard Medium Gray Medium Grained Mafic Gneiss | | | 153.6 ft - 156.1 ft: Slight to Moderate Weathering. Close Veins and Joints Healed With Calcite (Low To Steep Dip). | |
| | | | 525.4 | | |
| 156.1 | Moderately Hard to Hard Very Light Gray Felsic Gneiss | | | Steeply Dipping Brecciated Contact Zone With Pyrite Mineralization * | 90 |
| 160.0 | | | 520.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 34 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°

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TEST BORING RECORD

BORING NO. B-41

DATE DRILLED 7-2-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME DIA MIN. | 520.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|--------------------------------|----------------|---|-------------|
| 160.0 | Moderately Hard to Hard Very Light Gray Felsic Gneiss | NX | | Slight Weathering (156.1 ft-177.1 ft). Close Joints - Rough and Clean - Low Dip (156.0 ft - 173.7 ft). Mafic Schistose Zone with 1 inch Pegmatitic Vein (163.1 ft - 163.7 ft) | 90 |
| | | 100 | 515.4 | | |
| | | | 510.4 | ◁ M | |
| | | | 505.4 | | |
| 173.7 | Hard Medium Dark Gray Mafic Gneiss | | | Very Close Calcite - Healed Joints - Medium Dip (173.7 ft - 176.1 ft) | 94 |
| 176.1 | Hard Very Light Gray Felsic Gneiss | | | Close Joints - Partly Healed, and Coated with Calcite and Epidote (176.1 ft - 177.1 ft) | |
| 177.1 | Coring Terminated at 177.1 ft Groundwater at 75.0 ft After 24 Hours No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 34 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.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|-------|---------|---|
| 0 | Stiff Orange Slightly Clayey Fine To Medium Sandy Silt | | 654.4 | | |
| | | | 649.4 | N=15 | |
| 6.0 | Very Stiff To Hard Moderately Red And Yellow Fine To Medium Sandy Silt | | 644.4 | N=23 | |
| | | | 639.4 | N=25 | |
| | | | 634.4 | N=31 | |
| | | | 629.4 | N=27 | |
| | | | 624.4 | N=39 | |
| 32.0 | Hard Yellow And Gray Tan Fine To Medium Sandy Silt Becoming Very Sandy In Places | | 619.4 | N=78 | |
| 40.0 | | | 614.4 | N=50/5" | Quartz Lens Magnified N-Values @ 39.5 ft. |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|-------|---------|-------------|
| 40.0 | Hard Yellow And Gray Tan Fine To Medium Sandy Silt | | 614.4 | | |
| | | | 609.4 | N=43 | |
| | | | 604.4 | N=31 | |
| | | | 599.4 | N=46 | |
| 58.0 | Very Dense Brown Tan Silty Fine To Medium Sand | | 594.4 | N=71 | |
| | | | 589.4 | N=88 | |
| 66.0 | Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | | 584.4 | N=50/4" | |
| | | | 579.4 | N=50/3" | |
| 80.0 | | | 574.4 | N=50/5" | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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

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BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 574.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|----------------|--|-------------|
| 80.0 | Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | | | | |
| | | | 569.4 | N=50/2" | |
| | | | 564.4 | N=50/1" | |
| | | | 559.4 | N=50/0" | |
| 96.4 | Moderately Hard And Hard Yellow Gray To Very Light Gray Felsic Gneiss | NX 100 | 554.4 | Carbide Bit Refusal @ 96.4 ft. 96.4 ft - 110.5 ft. Moderate And Slight Weathering. Close Joints - Low To Medium Dip. Very Close Healed Joints - Low To Steep Dip. Some Partially Leached | 60 |
| | | | 549.4 | Top Of Continuous Rock 102.5 ft. | |
| | | | 544.4 | Moderate Severely Weathered Zone, Possibly Brecciated (104.6 ft - 104.9 ft) Severely Leached Zone (105.5 ft - 105.7 ft.) With Relic Pyrite. Quartz Vein With Associated Brecciated Zone (107.1 ft - 107.6 ft.) Severely Leached Brecciated Zone (109.5 ft - 110.7 ft.) | 93 |
| 110.5 | Hard Light Bluish Gray Felsic Gneiss | | 539.4 | 110.5 ft - 154.2 ft: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip - Calcite Filled. | |
| | | | 534.4 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1899
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

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

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 534.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|----------------|--|-------------|
| 120.0 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | 529.4 | Sericitic Schistose Zones, Possibly Brecciated: 124.2 ft - 124.5 ft. 125.5 ft - 125.9 ft. 127.0 ft - 127.7 ft. Medium Dip, Sericitic, Horizontally Slickensided Zone (124.5 ft.) | 100 |
| | | | 524.4 | | 100 |
| | | | 519.4 | | |
| | | | 514.4 | | |
| | | | 509.4 | Schistose Zone, In Part Sericitic And Possibly Brecciated With Intermittent Quartz Veins (140.9 ft - 149.7 ft) | 95 |
| | | | 504.4 | | 95 |
| 154.2 | Coring Terminated at 154.2 ft. Groundwater at 51 ft. After 24 Hours No Drilling Water Loss | | 499.4 | | |

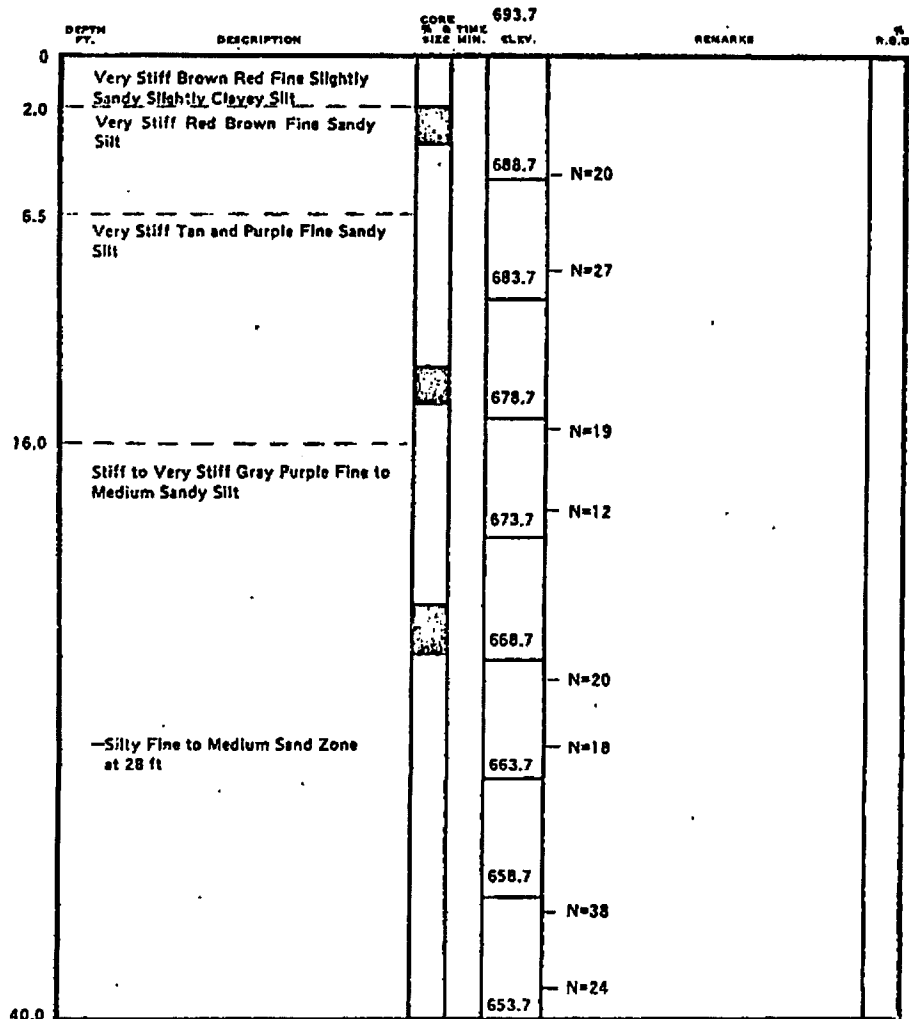
BORING AND SAMPLING MEETS ASTM D-1899
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.



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

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

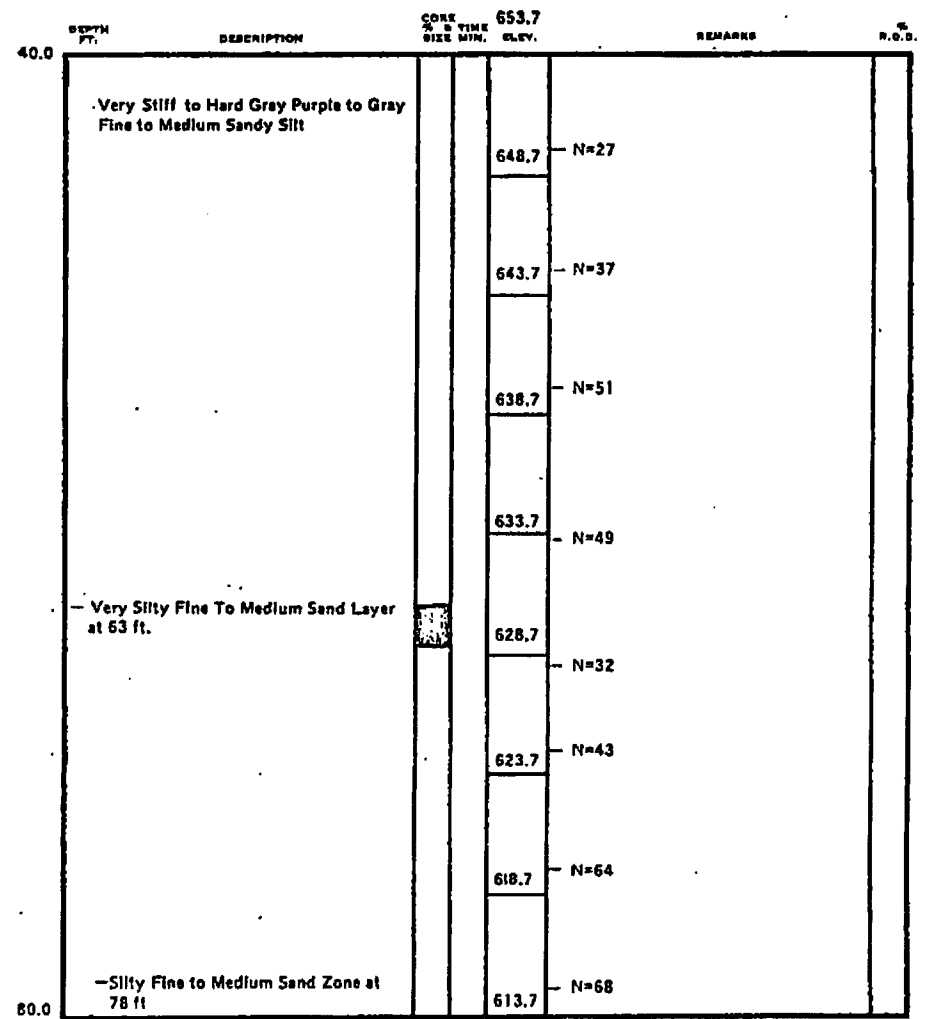
ROCK JOINT:
L = LOW DIP 0°-30°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 613.7 ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|----------------|--|--------|
| 80.0 | Very Stiff To Hard Gray Purple To Gray Fine To Medium Sandy Silt | | | | |
| 81.5 | Partially Weathered Rock That Becomes Purple Sandy Silt When Sampled | | 608.7 | N=50/5 in. | |
| 89.1 | Silty Fine To Coarse Sand Layer @ 88 ft. | | | | |
| 90.0 | Very Hard Milky to Smoky Quartz Very Soft Rock (Core Loss) | NX 11 | 603.7 | N=50/3" Carbide Bit Refusal at 89.1 ft. | |
| | | | 598.7 | | 0 |
| | | | 593.7 | | |
| | | NX 0 | 588.7 | | 0 |
| 107.7 | Partially Weathered Rock That Becomes Tan Slightly Silty Fine to Very Coarse Sand with Quartz Fragments | | 583.7 | Cased Past Pervious Zone: Drill Water Returned N=50/2 in. | |
| | | | 578.7 | N=50/4 in. | |
| 120.0 | | | 573.7 | N=50/4 in. | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 573.7 ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|----------------|--|--------|
| 120.0 | Hard Very Light Gray Felsic Gneiss | BX 100 | | Top of Continuous Rock at 120.0 ft | 81 |
| | | BX 74 | 568.7 | 119.7 ft - 140.4 ft: Slight Weathering Very Close Healed Joints-Low to Steep Dip-Commonly Leached Close Joints - Low Dip, Moderately Close Joints-Medium to Steep Dip. | 0 |
| | | BX 97 | 563.7 | Zones of Moderate Weathering: 119.7 ft - 120.6 ft 122.6 ft - 123.0 ft | 73 |
| | | BX 100 | 558.7 | Leached, Steep Dipping Quartz Veins, 1/4 in. Thick (126.0 ft - 127.5 ft) | 95 |
| 140.4 | Coring Terminated at 140.4 ft Groundwater @ 99 ft. After 24 Hours Drilling Water Loss At 89.1 ft. | | 553.7 | Slickensided Zone (140.4 ft) | |

BORING AND SAMPLING MEETS ASTM D-1898

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 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°

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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-1898

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 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°

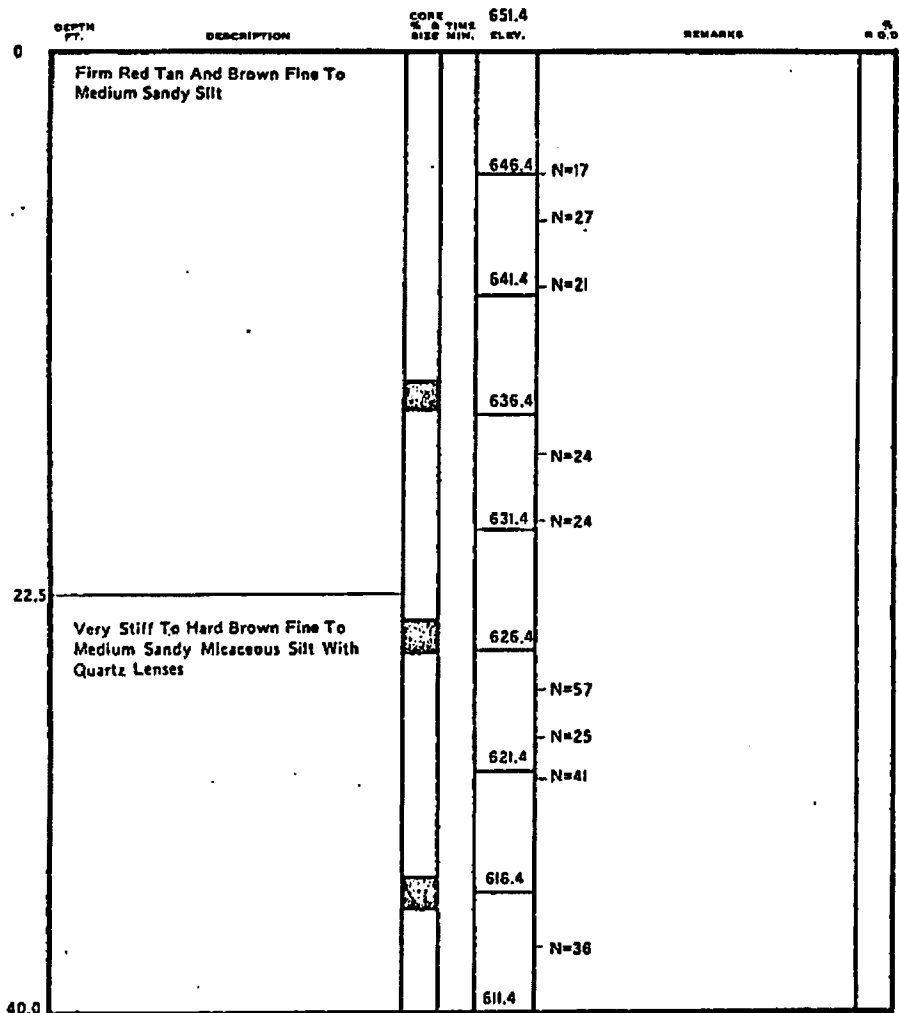
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TEST BORING RECORD

BORING NO. B-44

DATE DRILLED 7-13-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.



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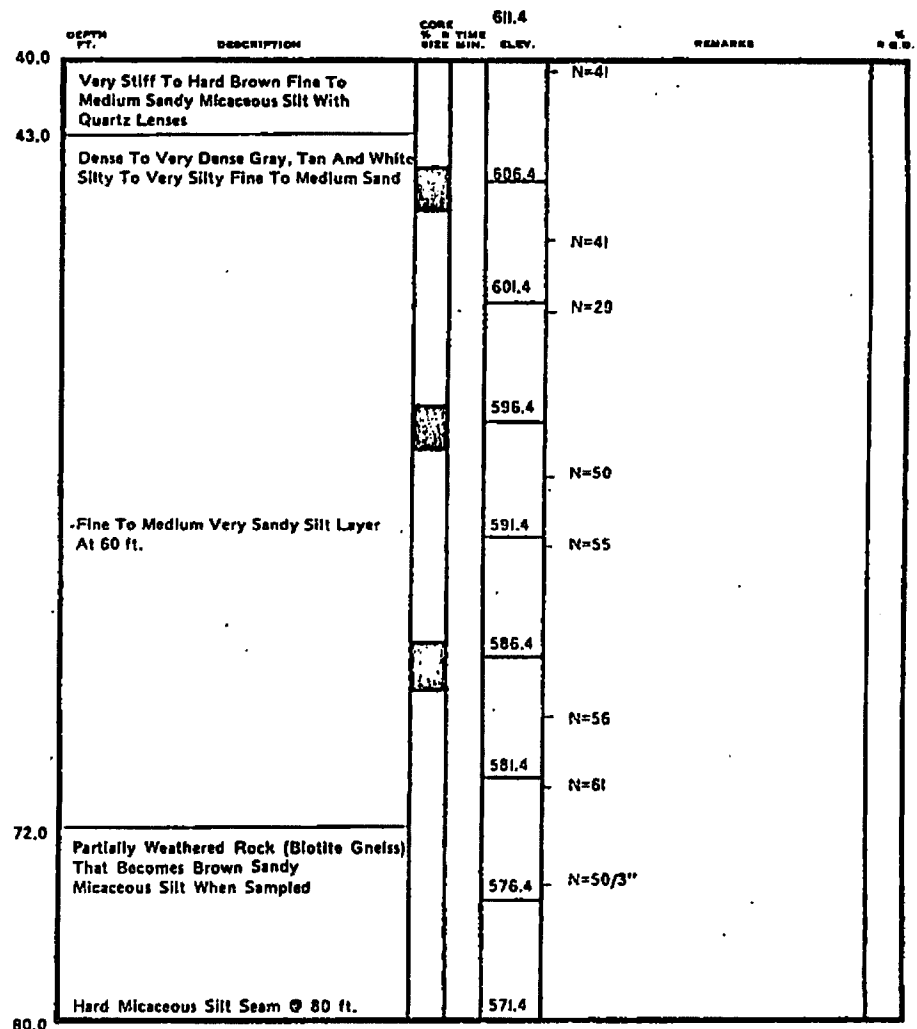
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER 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 NO. B-45
 DATE DRILLED 8-22-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER 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 NO. B-45
 DATE DRILLED 8-22-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|------------|--|--------|
| 80.0 | Partially Weathered Rock (Biotite Gneiss) That Becomes Brown Very Sandy Micaceous Silt When Sampled | | | N=56 | |
| | | | 566.4 | N=50/5" | |
| | | | 561.4 | N=50/3" | |
| | | | 556.4 | N=50/2" | |
| | | | 551.4 | N=50/1" | |
| | | | 546.4 | N=50/0" | |
| | | | 541.4 | N=50/0" | |
| 110.1 | Hard Very Light Gray Felsic Gneiss | NX 100 | 536.4 | Carbide Bit Refusal at 110.1 ft. 110.1 ft - 120.0 ft: Slight Weathering. Close And Very Close Joints Low To Steep Dip. | 62 |
| 117.0 | Hard Light Bluish Gray Felsic Gneiss | | 531.4 | Very Close Healed Joints - Low To Steep Dip (110.1 ft - 201.9 ft) Leached Above 164 ft. | 33 |

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 1/4" ROCK CORE 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°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------------|------------|--|--------|
| 120.0 | Hard Light Bluish Gray Felsic Gneiss | | | 120.0 ft - 129.5 ft: Moderate Severe To Very Severe Weathering. Very Close Joints - Low To Steep Dip. | 33 |
| 120.5 | Medium And Soft Olive Gray Mafic Gneiss | NX 67 | 526.4 | | |
| 129.5 | Moderately Hard Light Olive Gray Becoming Hard Grayish Blue Mafic Gneiss | 100 | 521.4 | 129.5 ft. - 153.5 ft.: Moderate Weathering (With Zones Of Moderately Severe Weathering. Close And Very Close Joints - Low To Steep Dip. | 72 |
| 138.3 | Moderately Hard White Schistose Felsic Gneiss | 81 | 511.4 | Moderately Severe And Severely Weathered Slickensided Zones, Brecciated Zones And Schistose Zones (138.3 ft - 144.5 ft.) | 28 |
| 144.5 | Moderately Hard Light Olive Gray * | | 506.4 | Top Of Continuous Rock @ 145.7 ft | |
| 145.7 | Hard Grayish Blue Mafic Gneiss | 96 | 501.4 | 1/4-inch, Steep Dip, Quartz Filled Joint (151.2 ft.) 153.5 - 191.5 ft.: Slight Weathering. Moderately Close To Close Joints - Low To Medium Dip - Clay Filled. | 82 |
| 155.0 | Hard Very Light Gray And Light Bluish Gray Felsic Gneiss | 99 | 496.4 | Curved Slickensided Surface - Medium Dip. Contact Is Offset About 1 inch (155.0 ft.). | |
| 160.0 | | | 491.4 | 1/2-inch Medium To Steep Dip Quartz Vein With Brecciated Contacts (159.2 ft.) Quartz Vein Offset 1/2-inch In Mafic Gneiss Xenolith (159.7 ft.) | 95 |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586 * Mafic 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.
 1/4" ROCK CORE 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 NO. B-45
 DATE DRILLED 8-22-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|--|-----------------------|-------|--|--------|
| | | % & TIME SIZE MIN. | ELEV. | | |
| 160.0 | Hard Very Light Gray And Light Bluish Gray Felsic Gneiss | NX 99 | 491.4 | Steep Dip Quartz Vein (162.1 ft to 163.3 ft.) | 95 |
| 164.5 | Hard Grayish Blue Mafic Gneiss | 100 | 486.4 | Low Dip Schistose And Brecciated Zone (163.6 ft - 164.1 ft.) | 96 |
| 171.3 | Hard And Very Hard Light Bluish Gray Felsic Gneiss | 96 | 481.4 | Schistose Zones: 171.3 ft - 1/4-inch, Medium Dip. 172.2 ft. - 2-inch, Medium Dip. 175.3 ft. - 3-inch, Medium Dip. | 95 |
| 175.5 | Hard Grayish Blue Mafic Gneiss | | 476.4 | | |
| 177.1 | Hard Very Light Gray And Light Bluish Gray Felsic Gneiss | | 471.4 | | |
| 179.4 | Hard Grayish Blue Mafic Gneiss | | 466.4 | | |
| 182.9 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 94 | 461.4 | Steep Dip Quartz Vein (185.7 ft to 186.1 ft.) | 86 |
| | | | 456.4 | L 191.5 to 201.9 ft: M Very Slight Weathering. M Moderately Close To Wide M Joints - Clay And Epidote. | 100 |
| 200.0 | | 100 | 451.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|---|-----------------------|-------|---------|--------|
| | | % & TIME SIZE MIN. | ELEV. | | |
| 200.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 451.4 | | 100 |
| 201.9 | Coring Terminated At 201.9 ft. Groundwater At 52.0 ft At Time Of Boring Groundwater At 53.0 ft After 24 Hours No Drilling Water Loss | | 446.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

ROCK JOINT:

L = LOW DIP 0-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|-------------|---------------------------|-------|---|--------|
| 0 | | | 649.0 | | |
| | | | 644.0 | | |
| | | N=22 | | Felsic Gneiss Tan Gray Silty To Very Silty Fine To Medium Sand With Brown Sandy Silt Seams | |
| | | | 639.0 | | |
| | | | 634.0 | | |
| | | N=48 | | Felsic Gneiss Tan Gray Silty To Very Silty Fine To Coarse Sand | |
| | | | 629.0 | | |
| | | | 624.0 | | |
| | | N=50/6" | | Felsic Gneiss Partially Weathered Rock That Becomes Tan Gray Fine Sandy Silt When Sampled | |
| | | | 619.0 | | |
| | | | 614.0 | | |
| | | N=26 | | Felsic Gneiss Tan Gray Fine To Medium Sandy Silt | |
| 40.0 | | | 609.0 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|--|--------|
| 40.0 | | | 609.0 | | |
| | | | 604.0 | | |
| | | N=24 | | Felsic Gneiss Tan Gray Slightly Micaceous Fine To Medium Sandy Silt | |
| | | | 599.0 | | |
| | | | 594.0 | | |
| | | N=33 | | Biotite Gneiss Tan Brown Micaceous Silt | |
| | | | 589.0 | | |
| | | | 584.0 | Top Of Continuous Rock at 64.7 ft. 64.7 ft - 81.5 ft: Slight Weathering. Very Close And Close Joints - Low To Medium Dip. Very Close Healed And Partly Leached Joints - Low To Steep Dip. Clay, Oxide And Some Mica Coatings. | |
| 64.7 | Hard Pinkish Gray And Light Bluish Gray Felsic Gneiss | NX 93 | 579.0 | | 77 |
| | | 88 | 574.0 | | |
| | | | 569.0 | | 66 |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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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-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|--|-------------------------|-------|--|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 80.0 | | | 569.0 | | |
| 81.5 | Hard Pinkish Gray And Light Bluish Gray Felsic Gneiss | NX 86 | | Mafic Gneiss Xenolite (81.0 ft) | 66 |
| | Moderately Hard And Hard Yellowish Gray And Pinkish Gray Felsic Gneiss | | 564.0 | 81.5 ft - 91.5 ft: Moderate And Moderately Severe Weathering. Very Close And Close Joints - Low To Medium Dip. | |
| | | 96 | 559.0 | Very Close Healed Joints - Low To Steep Dip - Clay And Oxide Coatings - Partly Leached | 65 |
| 91.5 | Hard Light Bluish Gray Felsic Gneiss | | 554.0 | 91.5 ft - 102.3 ft: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip - Calcite Coatings. | |
| | | 100 | 549.0 | | 100 |
| | | | 544.0 | | |
| 102.3 | Coring Terminated At 102.3 ft. Drilling Water Loss At 68.0 ft. | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

Page 3 of 3

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

UNDISTURBED SAMPLE WATER 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°

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| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|-------------|-------------------------|-------|---|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 0 | | | 651.4 | | |
| | | | 646.4 | | |
| | | | 641.4 | N=18 Felsic Schist Purple Pink Fine To Medium Very Sandy Silt | |
| | | | 636.4 | | |
| | | | 631.4 | N=50/4" Felsic Gneiss Partially Weathered Rock That Becomes Orange Slightly Sandy Silt When Sampled | |
| | | | 626.4 | | |
| | | | 621.4 | N=51 Felsic Schist Orange Slightly Sandy Silt | |
| | | | 616.4 | | |
| 40.0 | | | 611.4 | N=69 Felsic Schist Brown Slightly Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

Page 1 of 5

TEST BORING RECORD

UNDISTURBED SAMPLE WATER 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 NO. B-45 BP
DATE DRILLED 9-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|--------------------------|-------------------------------|---|----------|
| 40.0 | | 611.4 | | |
| | | 606.4 | | |
| | | 601.4 | N=41 Quartzite Dense Tan Slightly Silty Fine To Coarse Sand | |
| | | 596.4 | | |
| | | 591.4 | N=73 No Recovery | |
| | | 586.4 | | |
| | | 581.4 | N=45 No Recovery | |
| | | 576.4 | | |
| 80.0 | Partially Weathered Rock | 571.4 | N=50/4" Biotite Gneiss Partially Weathered Rock * | |

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

Page 2 of 5

TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CO. Page 19 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------|---|----------|
| 80.0 | | 571.4 | | |
| | | 566.4 | | |
| | | 561.4 | N=50/3" Felsic Schist Partially Weathered Rock That Becomes Gray And Tan Slightly Sandy Silt | |
| | | 556.4 | | |
| | | 551.4 | N=50/0 No Recovery | |
| | | 546.4 | N=50/0 No Recovery | |
| | | 541.4 | N=50/6" Felsic Gneiss Partially Weathered Rock That Becomes Gray And Tan Silty Fine To Medium Sand When Sampled | |
| | | 536.4 | N=50/0 No Recovery | |
| 117.5 | Hard Light Bluish Gray Felsic Gneiss | 531.4 | Carbide Bit Refusal @ 117.5 ft. | |
| 118.5 | Hard And Moderately Hard Pinkish Gray And Very Light Gray Felsic Gneiss | | M 117.5 ft - 118.5 ft: Slightly Weathered, Very Close Healed Joints * | 21 |
| 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.

* Low To Steep Dip
 Page 3 of 5

TEST BORING RECORD

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

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|----------------|---|----------|
| 120.0 | Hard And Moderately Hard Pinkish Gray And Very Light Gray Felsic Gneiss | NX 57 | 526.4 | 1/8 in. To 1/4 in. Quartz Vein, Steep Dip, Partly Leached (119.5 To 122.5 ft.) | 21 |
| | | 63 | 521.4 | 118.5 ft To 135 ft.: Moderately Weathered. Very Close Healed Joints, Low To Steep Dip, Partly Leached Close Joints, Low To Steep Dip. | 22 |
| 135.0 | Medium And Soft Grayish Olive Mafic Gneiss | | 516.4 | 135 ft To 150 ft.: Moderately Severe And Very Severly Weathered. Very Close Healed Joints, Low To Steep Dip, Partly Leached Close Joints - Low To Medium Dip. | |
| 139.5 | Medium And Soft Dark Yellowish Orange Felsic Gneiss With Zones Which Grade To Mafic Gneiss | 64 | 511.4 | Quartz Vein At Contact (139.5 ft.) | |
| 145.0 | Soft And Medium Grayish Olive Mafic Gneiss | | 506.4 | Very Soft Layers Of Unknown Thickness (About 146. ft.) | 5 |
| 150.0 | Moderately Hard Greenish Gray Mafic Gneiss | 33 100 | 501.4 | 150 ft To 158 ft.: Moderately Weathered. Very Close Healed Joints, Low To Steep Dip, Partly Leached Close Joints, Low To Steep Dip. | 0 45 |
| 158.0 | Hard Medium Bluish Gray Mafic Gneiss | 100 100 | 496.4 491.4 | 158 ft To 160.3 ft.: Slight To Moderate Weathering. Very Close Healed Joints, Low To Steep Dip, Partly Leached Close Joints - Low To Medium Dip. | 41 80 |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-458P

DATE DRILLED 9-13-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| 160.0 | Hard Medium Bluish Gray Mafic Gneiss | NX | | Top Of Continuous Rock 160.3 ft. | |
| 160.3 | Hard Light Bluish Gray Felsic Gneiss | 100 | 486.4 | 1" Thick Gray Green Fine Grained Partly Brecciated Zone Of Mafic Gneiss (163.6 ft.) | 88 |
| | | | 481.4 | 160.3 ft - 191.0 ft: Slightly Weathered. Very Close Healed Joints - Low To Steep Dip, Partly Leached Above 164.4 ft. | |
| | | | 476.4 | 1" Thick Quartz Vein, Steep Dip (167.1 ft.) | |
| 176.7 | Hard Greenish Gray And Medium Dark Gray Fine Grained Mafic Gneiss | 90 100 | 471.4 | Steeplly Dipping Schistose Zones: 176.7 ft. 178.0 ft. 179.0 - 180.0 ft. 181.0 - 183.5 ft. | 90 |
| | | | 466.4 | Brecciated Zone (182.5 ft.) | |
| | | | 461.4 | Abundant, Irregularly Shaped Quartz Stringers (184 - 191 ft.) | 94 |
| 190.0 | Hard Very Light Gray Felsic Gneiss | | | Well Healed Brecciated (?) Zone (189.5 - 190.2 ft.) | 75 |
| 191.0 | Coring Terminated At 191.0 ft. | | | Medium Dip Calcite Vein (190.3 ft.) Trace Of Pegmatite (191.0 ft.) | |
| 200.0 | Drilling Water Loss At 82.0 ft. | | | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-458P

DATE DRILLED 9-13-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH PT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|--------------|-------------|-------------------------------|-------|--|--------|
| 0 | | | 652.1 | | |
| | | | 647.1 | | |
| | | | 642.1 | | |
| | | | 637.1 | | |
| | | | 632.1 | | |
| | | | 627.1 | | |
| | | | 622.1 | N=31 Hard Tan Orange Fine To Medium Sandy Silt | |
| | | | 617.1 | | |
| 40.0 | | | 612.1 | N=36 Hard Orange Tan Fine To Coarse Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 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°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

M = MED. DIP 30°-60°

STANDARD PENETRATION LOSS OF DRILLING WATER

S = STEEP DIP 60°-90°

R.O.D. ROCK QUALITY DESIGNATION

Page 1 of 6
TEST BORING RECORD

BORING NO. B-45CP

DATE DRILLED 9-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Page 21 of 298

| DEPTH PT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|--------------|-------------|-------------------------------|-------|---|--------|
| 40.0 | | | 612.1 | | |
| | | | 607.1 | | |
| | | | 602.1 | N=45 Hard Tan Orange Slightly Micaceous Fine Sandy Silt | |
| | | | 597.1 | | |
| | | | 592.1 | N=45 Hard Tan Orange Micaceous Fine Sandy Silt | |
| | | | 587.1 | | |
| | | | 582.1 | N=39 Hard Orange Tan Micaceous Fine Sandy Silt | |
| | | | 577.1 | | |
| 80.0 | | | 572.1 | N=47 Hard Multi-Color Micaceous Fine Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 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°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

M = MED. DIP 30°-60°

STANDARD PENETRATION LOSS OF DRILLING WATER

S = STEEP DIP 60°-90°

R.O.D. ROCK QUALITY DESIGNATION

Page 2 of 6
TEST BORING RECORD

BORING NO. B-45CP

DATE DRILLED 9-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 80.0 | | | 572.1 | | |
| | | | 567.1 | | |
| | | | 562.1 | N=66 Hard Tan Brown Micaceous Fine Sandy Silt | |
| | | | 557.1 | | |
| 98.8 | Partially Weathered Rock | | 552.1 | N=50/4" Partially Weathered Rock That Becomes Tan Brown Fine Sandy Silt When Sampled | |
| | | | 547.1 | | |
| 107.9 | Very Soft Yellowish Orange Mafic Gneiss | NX 60 | 542.1 | N=50/6" Started Coring Before Refusal Was Reached | 0 |
| 112.0 | Medium To Very Soft Yellowish Gray Felsic Gneiss | NX 74 | 537.1 | 107.9 ft - 133.4 ft: Complete To Moderately Severe Weathering. Very Close Joints - Low To Steep Dip. Very Close Healed And Occasionally Leached Joints - Low To Steep Dip. | 0 |
| 118.0 | Soft To Very Soft Yellowish Orange Mafic Gneiss | NX 88 | 532.1 | | 0 |

BORING AND SAMPLING MEETS ASTM D-1556
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-45CP

DATE DRILLED 9-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 120.0 | Soft To Very Soft Yellowish Orange Mafic Gneiss | NX 88 | | | 0 |
| | | NX 34 | 527.1 | | 0 |
| 128.4 | Soft And Moderately Hard Very Light Gray Felsic Gneiss | NX 82 | 522.1 | 133.4 ft - 138.8 ft: Moderate To Slight Weathering. Close Joints - Low To Medium Dip. Very Close Healed And Leached Joints - Low To Steep Dip. | 0 |
| 135.3 | Moderately Hard To Hard Light Gray To Medium Light Gray Mafic Gneiss | NX 100 | 517.1 | Leached Quartz Vein At Contact (135.3 ft.) | 81 |
| | | NX 89 | 512.1 | Top Of Continuous Rock At 138.8 ft. | 83 |
| | | NX 100 | 507.1 | Anastomosing Quartz Stringers (141.7 to 142.1 ft.) 138.8 ft - 220.1 ft: Very Slight Weathering To Fresh. Very Close Healed And Calcite Filled Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 502.1 | Medium Dip Quartz, Calcite, Chlorite Stringers (148.8 ft.) | |
| 152.4 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | 497.1 | 1/8 Inch Steep Dip Quartz Vein (156.0 ft.) Medium Dip Schistose Zones: 157.6 ft., 158.1 ft. | 100 |
| 160.0 | | NX 100 | 492.1 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1556
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 120.0 | Soft To Very Soft Yellowish Orange Mafic Gneiss | NX 88 | | | 0 |
| | | NX 34 | 527.1 | | 0 |
| 128.4 | Soft And Moderately Hard Very Light Gray Felsic Gneiss | NX 82 | 522.1 | 133.4 ft - 138.8 ft: Moderate To Slight Weathering. Close Joints - Low To Medium Dip. Very Close Healed And Leached Joints - Low To Steep Dip. | 0 |
| 135.3 | Moderately Hard To Hard Light Gray To Medium Light Gray Mafic Gneiss | NX 100 | 517.1 | Leached Quartz Vein At Contact (135.3 ft.) | 81 |
| | | NX 89 | 512.1 | Top Of Continuous Rock At 138.8 ft. | 83 |
| | | NX 100 | 507.1 | Anastomosing Quartz Stringers (141.7 to 142.1 ft.) 138.8 ft - 220.1 ft: Very Slight Weathering To Fresh. Very Close Healed And Calcite Filled Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 502.1 | Medium Dip Quartz, Calcite, Chlorite Stringers (148.8 ft.) | |
| 152.4 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | 497.1 | 1/8 Inch Steep Dip Quartz Vein (156.0 ft.) Medium Dip Schistose Zones: 157.6 ft., 158.1 ft. | 100 |
| 160.0 | | NX 100 | 492.1 | | 100 |

Page 4 of 6
TEST BORING RECORD

BORING NO. B-45CP

DATE DRILLED 9-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. | |
|--------------|---|-------------------------------|-------|--|--------|--|
| 160.0 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | 487.1 | 1 inch Steep Dip Quartz Vein (160.2 to 161.8 ft.) | 100 | |
| | | | | | | Thin Steep Dip Schistose Zone With Calcite (162.7 to 163.5 ft.) |
| 169.5 | Hard Medium Bluish Gray Mafic Gneiss | BQ 100 | 482.1 | | 100 | |
| | | | | 477.1 | | |
| | | | | 472.1 | | |
| | | | | 467.1 | | L (Moderate Weathering) |
| 192.2 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | BQ 100 | 462.1 | ½ Inch Steep Dip Quartz Vein (187.8 ft.) | 99 | |
| | | | | 457.1 | | |
| 200.0 | | BQ 100 | 452.1 | | 100 | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|--|--------|
| 200.0 | Hard To Very Hard Medium Bluish Gray Mafic Gneiss | BQ 100 | 447.1 | M Slickensided Surface - Medium Dip Calcite Coated (201.2 ft.) | 100 |
| | | | | | |
| | | | 442.1 | L | |
| 213.2 | Very Hard Light Bluish Gray Felsic Gneiss | 91 | 437.1 | | 91 |
| | | | | | |
| | | BQ 73 | 432.1 | L Mafic Gneiss With Schistosity L Lower Contact (216.9 to 217.2 ft.) | 73 |
| 220.1 | Coring Terminated @ 220.1 ft No Drilling Water Loss | | | Boring Terminated in Steep Dip Quartz, Calcite Vein (219.3 to 220.1 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 5 of 6
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 6 of 6
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 649.3 ELEV. | REMARKS | N = 00 |
|--------------|--|-------------------------------|----------------|----------|-----------|
| 0 | Very Stiff Reddish Brown To Purple And Tan Fine To Coarse Very Sandy Slightly Micaceous Silt | | | | |
| | | | 644.3 | N=18 | |
| | | | 639.3 | N=24 | |
| 12.0 | Dense Purple And Brown Silty Slightly Micaceous Fine To Coarse Sand Becoming Very Silty With Depth | | 634.3 | N=39 | |
| | | | 629.3 | N=44 | |
| 23.0 | Very Dense Tannish Gray Silty Slightly Micaceous Fine To Coarse Sand | | 624.3 | N=84/11" | |
| 26.0 | Very Stiff Light Tannish Gray Fine To Medium Sandy Micaceous Silt | | 619.3 | N=25 | |
| | | | 614.3 | N=23 | |
| 40.0 | | | 609.3 | N=23 | |

Page 1 of 5

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-3119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 609.3 ELEV. | REMARKS | N = 00 |
|--------------|---|--|----------------|---|----------------------|
| 40.0 | Very Stiff Light Tannish Gray Fine To Medium Sandy Micaceous Silt | | | | |
| 43.0 | Firm Light Tannish Gray Very Silty Slightly Micaceous Fine To Medium Sand | | 604.3 | N=28 | |
| 47.0 | Very Stiff To Hard Light Tannish Gray Fine To Coarse Sandy Slightly Micaceous Silt | | 599.3 | N=29 | |
| | | | 594.3 | N=35 | |
| 57.0 | Hard Dark Olive Gray Very Micaceous Silt | | 589.3 | N=45 | |
| | | | 584.3 | N=46 | |
| 69.1 | Hard And Moderately Hard Very Light Gray And Very Light Tannish Gray Felsic Gneiss With Some Zones Of Medium Hardness | NQ 96 NQ 75 NQ 96 NQ 76 | 579.3 | N=50/1" No Recovery Carbide Bit Refusal At 69.1 ft. Cored With NQ Wire Line - 69.1 ft to 200.0 ft. 69.1 ft to 110.4 ft.: Slight And Moderate Weathering With Some Zones Of Moderately Severe Weathering. Close To Moderately Close Joints - Low To Steep Dip. | 75 75 64 58 |
| 80.0 | | | 569.3 | | |

Page 2 of 5

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-3119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | ROD |
|-----------|---|---------------------------|-------|---|-----|
| 80.0 | Hard And Moderately Hard Very Light Gray And Very Light Tannish Gray Felsic Gneiss With Some Zones Of Medium Hardness | NQ 76 | | Complete Weathering (89.5 ft to 93.5 ft and 101.6 ft to 102.7 ft.) Very Close Healed Joints - Low To Steep Dip. Close To Moderately Close Leached Joints - Generally Steep Dip To Vertical. | 58 |
| | | | 564.3 | | 70 |
| 89.5 | Core Loss (Very Soft Felsic Gneiss) | | 559.3 | | 0 |
| 93.5 | Hard And Moderately Hard Very Light Gray Felsic Gneiss | | 554.3 | Very Steep Dipping To Vertical Leached Quartz Filled Schistose Zone (100.4 ft to 102.1 ft.) | 80 |
| | | | | | 100 |
| | | | 549.3 | | 100 |
| 101.6 | Very Soft Light Tannish Gray Felsic * | | | Top Of Continuous Rock At 103.0 ft. Steep Dipping Schistose Zone (109.7 ft to 110.4 ft.) | 48 |
| 102.7 | Hard And Moderately Hard Very Light Gray And Very Light Tannish Gray Felsic Gneiss | | 544.3 | 110.4 ft to 126.3 ft.: Slight Weathering. Very Close Healed Joints - Low To Steep Joint Planes are Moderately To Moderately Severely Weathered And Detach Without Difficulty - Minor Leaching. | 100 |
| | | | | | 96 |
| 110.4 | Hard Very Light Gray Felsic Gneiss | | 539.3 | | 100 |
| | | | | | 100 |
| | | | 534.3 | | 100 |
| 120.0 | | | 529.3 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1888 * Gneiss
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | ROD |
|-----------|--|---------------------------|-------|---|-------|
| 120.0 | Hard Very Light Gray Felsic Gneiss | 100 | | 126.3 ft to 135.1 ft.: Very Severe To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Leached Joints - Low To Steep Dip. 4" Quartz Vein (130.2 ft.) | 100 |
| | | | 524.3 | | 88 |
| 126.3 | Soft To Hard Light Olive Gray And Medium Light Gray Mafic Gneiss | 76 | | 135.1 ft. to 152.1 ft.: Slight To Moderate Weathering. Close To Moderately Close Joints - Low To Steep Dip. Very Close Healed And Leached Joints - Low To Steep Dip. Foliation Generally Medium To Steep Dipping. Moderately Severe Weathered Zone (149.1 ft to 149.8 ft.) | 47 |
| | | | 519.3 | | 12 |
| | | | | | 80 |
| 135.1 | Hard Very Light Tannish Gray Felsic Gneiss | 92 | 514.3 | | 60 |
| | | | | | 94 |
| | | | 509.3 | | 100 |
| 148.4 | Very Hard White And Tan Quartzite | | | 152.1 ft to 169.2 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Leached Healed Joints - Low To Steep Dip: 153.5 ft to 154.6 ft. and 159.6 ft to 160.5 ft. Quartz Veins - Medium Dip: 154.0 ft. 155.2 ft. 158.7 ft. - Offset 1 in. | 100 |
| 149.1 | Medium Hard Tannish Gray Schistose * | | 504.3 | | 100 |
| 149.8 | Very Hard White And Tan Quartzite | 96 | 499.3 | | 84 |
| 151.2 | Hard Very Light Tannish Gray Schistose | | | | |
| 152.1 | Very Hard Very Light Gray Felsic Gneiss | | | Felsic Schist At Quartzite Contacts. | 100 |
| | | | | | 494.3 |
| 160.0 | | | 489.3 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1888 * Sericitic Felsic Gneiss
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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-45D
DATE DRILLED 12-12-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------|-------|---|--------|
| 160.0 | Very Hard Very Light Gray Felsic Gneiss | 489.3 | | | 100 |
| | | 100 | | | |
| | | 484.3 | | Calcite Rich Zone (165.7 ft.) | 100 |
| | | 100 | | | |
| 169.2 | Hard Medium Light Gray Mafic Gneiss | 479.3 | | 169.2 ft. to 200.0 ft. Very Slightly Weathered To Fresh With Some Slightly Weathered Zones. Very Close Healed Joints - Coated With Calcite, Quartz And Chlorite - Low To Steep Dip. | 100 |
| | | 100 | | | |
| 176.1 | Hard Very Light Gray Felsic Gneiss | 474.3 | | Traces of Pyrite Throughout Medium Dip Offset Displacing Joints About 1/4 Inch (171.7 ft.) | 100 |
| | | 100 | | | |
| 178.4 | Hard Medium Light Gray Mafic Gneiss | 469.3 | | | 100 |
| | | 100 | | | |
| 180.1 | Hard Light Greenish Gray Felsic Gneiss | 464.3 | | | 100 |
| | | 100 | | | |
| 182.5 | Hard Medium Light Gray And Greenish Gray Mafic Gneiss | 459.3 | | | 100 |
| | | 100 | | | |
| 185.4 | Very Hard Very Light Gray Felsic Gneiss | 454.3 | | | 100 |
| | | 100 | | | |
| 200.0 | | 449.3 | | | 100 |

BORING AND SAMPLING MEETS ASTM D-1588 *Coring Terminated At 200.0 ft.
 CORE DRILLING MEETS ASTM D-8119 Groundwater At 49.0 ft After 24 Hours
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER Drilling Water Loss
 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.
 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
 B-45D
 BORING NO. B-45D
 DATE DRILLED 12-12-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------|-------|--------------------------|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 70.0 ft. | 649.3 | | No Soil Samples Obtained | |
| | | 644.3 | | | |
| | | 639.3 | | | |
| | | 634.3 | | | |
| | | 629.3 | | | |
| | | 624.3 | | | |
| | | 619.3 | | | |
| | | 614.3 | | | |
| 40.0 | | 609.3 | | | |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°

TEST BORING RECORD
 B-45D
 BORING NO. B-45D
 DATE DRILLED 12-13-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO

| | | 609.3 | | | |
|-----------|---|----------------|-------|--|--------|
| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 70.0 ft. | | | | |
| | | | 604.3 | | |
| | | | 599.3 | | |
| | | | 594.3 | | |
| | | | 589.3 | | |
| | | | 584.3 | | |
| | | | 579.3 | NW Casing to 70.0 ft. Cored With NQ Wire Line 70.0 ft. to 100.0 ft. | 57 |
| 70.0 | Medium To Moderately Hard Very Light Gray Felsic Gneiss With Some Soft And Hard Zones | NQ 100 | | 70.0 ft. to 84.1 ft.: Moderate To Moderately Severe Weathering. Close Joints - Low To Steep Dip. | 76 |
| | | NQ 84 | 574.3 | Severely Weathered Zones (72.5 ft to 72.7 ft, 77.7 ft to 78.1 ft and 80.6 ft to 81.4 ft.) | 82 |
| | | NQ 100 | | | |
| | | | 569.3 | | |

Page 2 of 3

BORING AND SAMPLING MEETS ASTM D-1584
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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.

| | | 569.3 | | | |
|-----------|--|----------------|-------|---|--------|
| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
| 80.0 | Medium To Moderately Hard Very Light Gray Felsic Gneiss With Some Soft And Hard Zones | NQ 80 | | Very Close Poorly Healed Joints - Low To Steep Dip. Occasionally Leached. | 36 |
| | | NQ 100 | | | 80 |
| 84.1 | Hard To Very Hard Very Light Gray Felsic Gneiss | NQ 100 | 564.3 | 84.1 ft to 88.9 ft. Slightly Weathered. Very Close Healed Joints - Low To Steep Dip. Complete Water Loss | 100 |
| | | NQ 92 | | | 80 |
| 88.9 | Medium To Moderately Hard Very Light Gray And Light Tannish Gray Felsic Gneiss With Soft Zones And Some Hard Zones | NQ 56 | 559.3 | 88.9 ft to 100.0 ft.: Severe To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Poorly Healed Joints - Low To Steep Dip. Occasionally Slightly Leached. | 0 |
| | | NQ 95 | 554.3 | | 48 |
| | | NQ 96 | | | 52 |
| | | NQ 100 | 549.3 | | 75 |
| 100.0 | Coring Terminated At 100.0 ft. Groundwater At 50 ft After 24 Hours Drilling Water Loss At 88.0 ft. | | | | |

Page 3 of 3

BORING AND SAMPLING MEETS ASTM D-1584
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE % & TIME DIA. MIN. | ELEV. | REMARKS | R.O.Q. |
|--------------|---|-------------------------------|-------|---------|--------|
| 0 | Firm Purple And Tan To Orange And Tan Very Silty Slightly Micaceous Fine To Coarse Sand | | 650.9 | | |
| | | | 645.9 | N=15 | |
| | | | 640.9 | N=17 | |
| | | | 635.9 | N=20 | |
| 18.0 | Dense Orangish Gray Very Silty Slightly Micaceous Fine To Medium Sand | | 630.9 | N=39 | |
| 23.0 | Firm Orange And Tannish Gray Very Silty Slightly Micaceous Fine To Coarse Sand | | 625.9 | N=26 | |
| 28.0 | Hard Grayish Brown Fine To Medium Very Sandy Slightly Micaceous Silt | | 620.9 | N=32 | |
| 32.0 | Firm Grayish Tan Very Silty Slightly Micaceous Fine To Coarse Sand | | 615.9 | N=23 | |
| 37.0 | Very Stiff To Hard Gray And Brownish Gray Fine To Medium And Fine To Coarse Very Sandy Silt | | 610.9 | N=26 | |

BORING AND SAMPLING METHODS ASTM D-1586
CORE DRILLING METHODS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N. STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 7
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME DIA. MIN. | ELEV. | REMARKS | R.O.Q. |
|--------------|--|-------------------------------|-------|---------|--------|
| 40.0 | Very Stiff To Hard Gray And Brownish Gray Fine To Medium And Fine To Coarse Very Sandy Silt | | 610.9 | | |
| | | | 605.9 | N=32 | |
| | | | 600.9 | N=30 | |
| 52.0 | Dense Grayish Brown To Tan And Gray Very Silty Micaceous To Slightly Micaceous Fine To Coarse Sand | | 595.9 | N=37 | |
| | | | 590.9 | N=41 | |
| 64.0 | Very Dense Tannish Gray Silty Slightly Micaceous Fine To Coarse Sand With Small Rock Fragments | | 585.9 | N=75 | |
| 68.0 | Dense Gray Very Silty Micaceous Fine To Coarse Sand | | 580.9 | N=48 | |
| 72.0 | Hard Olive Gray Slightly Fine Sandy Very Micaceous Silt | | 575.9 | N=35 | |
| 79.0 | Partially Weathered Rock That Becomes | | 570.9 | N=50/6" | |

BORING AND SAMPLING METHODS ASTM D-1586
CORE DRILLING METHODS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 7
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | 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 | | 560.9 | NQ Wire Line - 84.1 ft to 250.1 ft. Complete Weathering (84.1 ft to 86.3 ft) 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 | | 555.9 | 1" Quartzite Lens (95.3 ft.) | 0 |
| | | NQ 16 | | 550.9 | 109.4 ft to 113.6 ft.: Slightly Weathered. Very Close Healed Joints - Low To Steep Dip. | 0 |
| 101.0 | Moderately Hard To Very Hard Very Light Tannish Gray To White Quartzite With Soil Zones | NQ 20 | | | Some Leached Quartz Veins Throughout. | 0 |
| | | NQ 12 | | 545.9 | Quartzite Rich Zone (111.3 ft. to 112.5 ft.) | 0 |
| | | NQ 16 | | | 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 |
| 109.2 | Hard And Moderately Hard Medium Light Gray Mafic Gneiss With Very Hard White Quartzite Interlayers | NQ 92 | | 540.9 | | 80 |
| | | NQ 88 | | 535.9 | 2 Inch Quartz Vein (114.2 ft.) | 88 |
| | | NQ 76 | | | 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 | | |

Page 3 of 7
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 1 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°
BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | 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 | | 525.9 | Slightly Weathered (149.2 ft to 150.7 ft.) | 40 |
| | | NQ 96 | | | | 40 |
| 126.0 | Hard Very Light Gray Felsic Gneiss | NQ 88 | | 520.9 | | 48 |
| | | NQ 100 | | | | 72 |
| | | NQ 100 | | 515.9 | Top Of Continuous Rock At 129.0 ft | 48 |
| | | NQ 92 | | | NW Casing to 130.0 ft. | 92 |
| | | NQ 100 | | | | 100 |
| | | NQ 68 | | 510.9 | | 48 |
| | | NQ 100 | | | | 92 |
| 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 | | 495.9 | Joints Terminate Against Apparent Offset (155.1 ft.) | 66 |
| 157.2 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | | | | 94 |
| 158.7 | Hard Medium Light Gray Mafic Gneiss | | | 490.9 | | |
| 159.5 | | | | | | |
| 160.0 | | | | | | |

Page 4 of 7
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 1 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°
BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|-------|---|--------|
| 160.0 | Hard Light Gray Felsic Gneiss (Gradational Contact Zone) | NQ 100 | 490.9 | 153.3 ft to 250.1 ft. Slight To Very Slight Weathering. Very Close Healed And Filled Joints With Calcite And Quartz. Minor Chlorite and epidote - Very Few Leached - Low To Steep Dip. | 100 |
| 163.8 | Hard Very Light Greenish Gray Sericitic Felsic Gneiss | NQ 92 | 485.9 | 1/2 Inch Schistose Zone - Low Dip (167.1 ft.) Moderate Weathering (165.6 ft to 167.3 ft And 168.6 ft to 169.7 ft.) | 100 |
| 169.7 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 90 | 480.9 | | 98 |
| 171.5 | Hard Very Light Greenish Gray Felsic Gneiss (Borderline Mafic) | NQ 100 | 475.9 | | 100 |
| 173.7 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | 470.9 | | 100 |
| | | NQ 100 | 465.9 | 1/4 Inch Very Steeply Dipping Quartz Vein (182.0 ft to 183.5 ft.) Traces Of Chalcopyrite And Nematite In 1/4 Inch Steep Dip Quartz Vein (186.5 to 187.0 ft.) | 100 |
| | | NQ 100 | 460.9 | | 100 |
| 192.7 | Hard Greenish Gray To Medium Light Gray Mafic Gneiss | NQ 100 | 455.9 | Schistose Zone At Contact (191.7 ft.) Calcite And Muscovite In Joint Filling (192.7 ft - 194.0 ft.) | 100 |
| 194.0 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | 450.9 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 5 of 7
TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------------|-------|---|--------|
| 200.0 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | 450.9 | | 100 |
| 206.1 | Hard Medium Light Gray Mafic Gneiss | NQ 100 | 440.9 | Medium Dip Brecciated Zone (205.5 ft to 205.9 ft.) | 98 |
| 214.0 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | 435.9 | | 100 |
| | | NQ 100 | 430.9 | | 100 |
| | | NQ 100 | 425.9 | | 100 |
| | | NQ 100 | 420.9 | | 100 |
| | | NQ 100 | 415.9 | Steep Dip Brecciated Zone With Quartzite(?) Fragments In Actinolite, Chlorite, Quartz And Calcite (230.0 ft - 230.8 ft.) | 100 |
| 236.7 | Hard Medium Light Gray Mafic Gneiss | NQ 100 | 410.9 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 6 of 7
TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R Q D |
|--------------|---|-------------------|---------------|---------|-------------|
| | | % SIZE MIN. | TIME ELEV. | | |
| 100.0 | Hard Medium Light Gray Mafic Gneiss | NQ 100 | 410.9 | | 100 |
| 243.1 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | 405.9 | | 100 |
| 250.1 | Coring Terminated At 250.1 ft. Drilling Water Losses At 100.0 ft., 114.0 ft and 121.0 ft. | NQ 100 | 400.9 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3715
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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°

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TEST BORING RECORD

BORING NO. B-45E
DATE DRILLED 1-14-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R Q D |
|--------------|--|-------------------|---------------|---------|-------------|
| | | % SIZE MIN. | TIME ELEV. | | |
| 0 | Dense Tan Red Micaceous Silty Fine To Coarse Sand And Quartz Fragments | | 651.0 | | |
| | | | 646.0 | N=37 | |
| 7.0 | Firm Tan Red Micaceous Silty Fine To Coarse Sand And Quartz Rock Fragments | | 641.0 | N=18 | |
| | | | 636.0 | N=21 | |
| 19.0 | Dense Tan Red Micaceous Silty Fine To Coarse Sand And Quartz Fragments | | 631.0 | N=33 | No Recovery |
| 22.0 | Very Stiff Gray Tan Micaceous Fine To Medium Sandy Silt | | 626.0 | N=29 | |
| 28.0 | Hard Black And Brown Micaceous Fine To Coarse Sandy Silt | | 621.0 | N=70 | |
| 31.0 | Hard Green Brown Fine Sandy Very Micaceous Silt | | 616.0 | N=34 | |
| 38.0 | Very Dense Black And Tan Very Silty Fine To Coarse Sand With Gravel | | 611.0 | N=73 | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3715
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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°

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TEST BORING RECORD

BORING NO. B-45F
DATE DRILLED 12-27-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | N S.D. |
|--------------|---|-------------------------------|-------|---------|-----------|
| 40.0 | Very Dense Black And Tan Very Silty Fine To Coarse Sand With Gravel | | | | |
| 44.0 | Hard Brown Tan To Tan Micaceous Fine To Coarse Very Sandy Silt | | 606.0 | N=45 | |
| | | | 601.0 | N=51 | |
| 53.0 | Hard Tan Slightly Micaceous Fine To Coarse Sandy Silt | | 596.0 | N=40 | |
| 56.0 | Hard Light Brown Fine Sandy Micaceous Silt | | 591.0 | N=60 | |
| 63.0 | Hard Tan To Gray Tan Micaceous Fine To Coarse Very Sandy Silt | | 586.0 | N=43 | |
| | | | 581.0 | N=56 | |
| | | | 576.0 | N=65 | |
| 77.0 | Partially Weathered Rock That Becomes Green Brown Fine Sandy Very Micaceous Silt When Sampled | | 571.0 | N=50/5" | |
| 80.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | N S.D. |
|--------------|--|-------------------------------|-------|--|-----------|
| 80.0 | Partially Weathered Rock That Becomes Green Brown Fine Sandy Very Micaceous Silt When Sampled | | 566.0 | N=50/3" | |
| 86.5 | Very Soft Olive-Gray To Tannish Olive- Gray Mafic Gneiss (Soil - Hard Fine Sandy Very Micaceous Silt) | NQ 0 | 561.0 | NQ Wire Line - 86.5 ft to 200.0 ft. 86.5 ft to 107.6 ft: Complete Weathering. Remnants of Quartz Veins Throughout. | 0 |
| | | NQ 0 | 556.0 | N=50/5" 107.6 ft. to 110.2 ft.: Moderately Weathered. Close Severely Weathered Joints - Low To Medium Dip. Dip Of Foliation Varies - Low To Steep Dip. | 0 |
| | | 64 | 551.0 | Steeply Dipping Felsic Gneiss Zone With Some Quartzite: Slight Brecciation Along Contact With Mafic Gneiss (111.4 ft to 111.9 ft.) | 0 |
| | | 100 | 546.0 | 1 Inch Thick Steeply Dipping Leached Brecciated (?) Zone With Chlorite, Actinolite And Quartz (113.6 - 114.8 ft.) | 0 |
| 103.0 | Very Soft Grayish-Tan Felsic Gneiss (Soil - Very Dense Very Silty Fine To Coarse Sand With Quartz Pebbles) | 100 | 541.0 | Complete Water Loss | 60 |
| 107.6 | Moderately Hard To Hard Very Light Tannish Gray Quartzitic Felsic Gneiss | 80 | 536.0 | NW Casing to 111.5 ft. Moderately Weathered (110.2 ft. to 114.7 ft.) Very Slightly Weathered (114.7 ft to 116.5 ft.) Moderately Severe To Severely Weathered (116.5 ft to 120.6 ft.) | 88 |
| 110.2 | Moderately Hard To Hard Olive-Gray To Medium Light Gray Mafic Gneiss | 100 | 531.0 | 110.2 ft to 120.6 ft.: Close Joints - Low To Steep Dip. Very Close Heated Joints - Low To Steep Dip. | 88 |
| 116.7 | Medium To Soft Olive Gray To Tannish Brown Mafic Gneiss | 88 | | | 44 |
| 120.0 | | 88 | | Scattered Quartz Stringers. | 32 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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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.

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°

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TEST BORING RECORD

BORING NO. B-45F

DATE DRILLED 12-27-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. ELEV. | REMARKS | R.O.Q. |
|--------------|--|--------------------------------------|---|--------|
| 120.0 | | 531.0 | | |
| 120.6 | MEDIUM TO SOFT OLIVE GRAY TO * MODERATELY HARD VERY LIGHT GRAY SERICITIC, QUARTZITIC FELSIC GNEISS | NQ 88 | Top Of Continuous Rock At 120.6 ft | 32 |
| | | 88 | Steeply Dipping Brecciated Zone At Mafic/Felsic Contact - 1 to 2 Inches Thick (120.6 ft.) | 76 |
| 123.6 | Very Hard Very Light Gray Quartzite With Interlayered Moderately Hard Tan And Light Gray Felsic Schist | 92 | 120.6 ft. to 149.2 ft.: Moderate Weathering. Moderately Close To Close Joints - Low To Steep Dip. | 76 |
| 127.1 | Moderately Hard Very Light Tannish Gray Sericitic, Quartzitic Felsic Gneiss | 88 | Very Close Healed And Quartz Filled Joints - Low To Steep Dip. | 80 |
| | | 100 | | 100 |
| | | 96 | | 96 |
| 134.8 | Very Hard Very Light Gray Quartzite | 96 | | 64 |
| 136.1 | Moderately Hard To Hard Very Light ** | 100 | | 90 |
| 137.2 | Hard Very Light Tannish Gray Felsic Gneiss | 100 | | 90 |
| 139.7 | Very Hard Very Light Gray Quartzite | 100 | | 100 |
| 140.1 | Moderately Hard Light Olive Gray Hard Medium Light Gray Mafic Gneiss | 100 | | 100 |
| | | 100 | | 100 |
| 146.8 | Hard To Very Hard Very Light Tannish Gray To Very Light Gray Felsic Gneiss | 84 | Slickensided Surfaces: Low Dip, 143.2 ft. Medium Dip, 143.5 ft. Medium Dip, 144.2 ft. Medium Dip, 146.1 ft. | 74 |
| | | 100 | 149.2 ft to 156.0 ft.: Slightly Weathered. Very Close Healed And Filled Joints - Low To Steep Dip - Many Leached. | 100 |
| | | 100 | | 100 |
| | | 100 | 156.0 ft to 200.0 ft.: Slight To Very Slight Weathering. | 100 |
| 160.0 | | 491.0 | | 100 |

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. ELEV. | REMARKS | R.O.Q. |
|--------------|--|--------------------------------------|---|--------|
| 160.0 | Very Hard Very Light Gray Felsic Gneiss | NQ 100 | Occasional Low To Steep Dipping Thin Schistose Zones (156.0 ft to 169.7 ft.) | 100 |
| | | 486.0 | Thin Calcite Filled Steeply Dipping Schistose Zone Cross- Cutting A Quartz, Calcite Brecciated Chlorite Zone (163.5 ft.) | 100 |
| 167.0 | Hard Medium Light Gray Mafic Gneiss | 100 | Zone Of Mafic Gneiss (165.9 ft to 166.2 ft.) Very Close Healed Calcite And Chlorite Filled Joints - Low To Steep Dip. | 100 |
| 167.6 | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | | 100 |
| | | 476.0 | | 100 |
| 177.9 | Hard Medium Light Gray Mafic Gneiss | 100 | Numerous Quartz Rich Zones And Quartz Stringers (170.2 ft to 176.0 ft.) | 100 |
| 178.7 | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | Quartz Veins: Steep Dip - 199.5 ft. Low Dip - 177.4 ft. Low Dip - 183.1 ft. | 100 |
| | | 466.0 | Quartz, Calcite And Chlorite At Steep Contact With Mafic Gneiss (177.9 ft.). | 96 |
| 186.4 | Hard Light Olive Gray Mafic Gneiss | 100 | Severe Weathering (186.3 ft. to 186.4 ft.) | 100 |
| 187.6 | Very Hard Very Light Gray Felsic Gneiss | 100 | Very Steep Dipping To Vertical Schistose Zone With Quartz, Calcite And Chlorite (178.7 ft. to 180.4 ft., 181.4 ft to 182.5 ft.) | 100 |
| 193.3 | Hard Medium Light Gray Mafic Gneiss | 100 | Schistose Zone Of Chlorite And Quartz - Low Dip. (192.1 ft to 192.3 ft.) | 100 |
| 194.9 | Hard Very Light Gray Felsic Gneiss | 100 | | 100 |
| 195.7 | Hard Medium Light Gray Mafic Gneiss | 100 | | 100 |
| 196.4 | Very Hard Very Light Gray Felsic Gneiss | 100 | | 100 |
| 200.0 | | 451.0 | | 100 |

BORING AND SAMPLING MADE WITH D-1100 * Tannish Brown Mafic Gneiss
CONE DRILLING MEETS ASTM D-3118 Tannish Gray Sericitic, Quartzitic
Felsic Gneiss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER TABLE, 84 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.O.Q. ROCK QUALITY DESIGNATION

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MADE WITH D-1100 * Coring Terminated At 200.0 ft.
CONE DRILLING MEETS ASTM D-3118 Drilling Water Loss At 109.0 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.

TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER TABLE, 84 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|---------|--------|
| 0 | Stiff Tan Purple Micaceous Fine To Coarse Sandy Silt | | 649.3 | | |
| | | | 644.3 | N=13 | |
| 8.0 | Very Stiff Tan Purple Micaceous Fine To Coarse Very Sandy Silt | | 639.3 | N=25 | |
| 12.0 | Dense Black Brown Micaceous Very Silty Fine To Coarse Sand | | 634.3 | N=37 | |
| 18.0 | Dense Tan Pink Micaceous Very Silty Fine To Coarse Sand | | 629.3 | N=36 | |
| 24.0 | Hard Tan Red Micaceous Fine To Medium Very Sandy Silt | | 624.3 | N=30 | |
| 27.0 | Firm Gray Pink Micaceous Very Silty Fine To Coarse Sand | | 619.3 | N=28 | |
| | | | 614.3 | N=27 | |
| 38.0 | Hard Pink Brown Fine Sandy Micaceous Silt | | 609.3 | N=68 | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 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°

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TEST BORING RECORD

BORING NO. B-45G

DATE DRILLED 2-6-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|---------------------------------|--------|
| 40.0 | Hard Pink Brown Fine Sandy Micaceous Silt | | 609.3 | | |
| 42.0 | Dense Gray Tan To Gray Micaceous Silty Fine To Coarse Sand | | 604.3 | N=46 | |
| | | | 599.3 | N=45 | |
| | | | 594.3 | N=50 | |
| | | | 589.3 | N=49 | |
| | | | 584.3 | N=42 | |
| | | | 579.3 | N=50/6" | |
| 70.0 | Partially Weathered Rock That Becomes Tan Gray Micaceous Silty Fine To Coarse Sand When Sampled | | 574.3 | N=50/6" | |
| 77.5 | Very Soft Very Light Gray Felsic Gneiss (Partially Weathered Rock) | NQ 92 | 569.3 | Carbide Bit Refusal At 77.5 ft. | |
| 80.0 | | | | | 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 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°

S = STEEP DIP 60°-90°

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TEST BORING RECORD

BORING NO. B-45G

DATE DRILLED 2-6-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE SIZE & TIME MIN. | ELEV. 569.3 | REMARKS | R.Q.D. |
|--------------|---|-----------------------------|----------------|--|--------|
| 10.0 | Very Soft Very Light Gray Felsic Gneiss (Partially Weathered Rock) | NQ | | 77.5 ft to 102.4 ft.: Severe Weathering. (Partially Weathering Rock: Very Light Gray Silty Fine To Coarse Sand) Close To Very Close Healed Joints - Medium To Steep Dip. Very Close Joints - Low To Steep Dip. | 0 |
| | | 96 | | | 0 |
| | | 92 | 564.3 | | 0 |
| | | 12 | | | 0 |
| | | 20 | 559.3 | | 0 |
| | | 40 | | | 0 |
| | | 68 | 554.3 | | 0 |
| | | 72 | | | 0 |
| | | 96 | 549.3 | | 0 |
| | | 100 | | | 0 |
| 02.4 | Very Hard White Quartz And Soil | 3 | 544.3 | 102.4 ft to 115.0 ft.: Moderate To Moderately Severe Weathering. Close To Very Close Healed Joints - Medium To Steep Dip. 96% Loss (102.4 ft - 107.6 ft.) | 0 |
| | | 0 | | | 0 |
| 07.6 | Medium Very Light Gray Felsic Gneiss | 56 | 539.3 | M | 0 |
| 09.5 | Medium Dark Yellowish Orange Felsic Schist | 36 | | | 0 |
| 13.5 | ? | 0 | 534.3 | 115.0 to 119.8 ft.: Slight To Moderate Weathering. Close To Very Close Healed Joints - Medium To Steep Dip. Close To Very Close Joints - Low To Steep Dip. | 0 |
| | | 28 | | | 2 |
| | | 100 | 529.3 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 3 of 5
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE SIZE & TIME MIN. | ELEV. 529.3 | REMARKS | R.Q.D. |
|--------------|---|-----------------------------|----------------|---|-----------|
| 120.0 | Moderately Hard Medium Gray Mafic * Soft And Medium Very Light Gray Felsic Schist | NQ | | 119.8 ft to 124.8 ft.: Moderate Weathering. Very Close Healed Joints - Low To Medium Dip. | 10 |
| 121.0 | | 20 | | | 20 |
| | | 40 | 524.3 | Complete Drilling Water Loss | |
| 124.8 | Very Hard Very Light Gray White Quartzite | 100 | | 124.8 ft to 126.4 ft.: Slight Weathering. Close Healed Joints - Medium Dip. 126.4 ft to 132.7 ft.: Moderate Weathering. Very Close Healed And Slightly Leached Joints - Medium Steep Dip. | 100 |
| 129.0 | Medium Very Light Gray Felsic Gneiss | 50 | 519.3 | Top Of Continuous Rock At 133.6 ft. | 50 |
| 132.0 | Medium Medium Light Gray Felsic Schist | 85 100 | | 132.7 ft to 138.0 ft.: Slight To Moderate Weathering. Very Close Healed And Calcite Filled Joints. | 85 100 |
| 134.0 | Hard Medium Gray Mafic Gneiss | 100 | 514.3 | Very Severely Weathered Zone (133.2 133.4 ft.) 138.0 ft to 144.3 ft.: Moderate Weathering. Very Close Healed And Some Leached Joints - Medium To Steep Dip. | 60 |
| | | 100 | | | 50 |
| 138.0 | Hard Very Light Gray Felsic Gneiss | 60 | | 144.3 ft to 151.0 ft.: Slight To Moderate Weathering. Very Close Healed And Chlorite Filled Joints, Rarely Leached - Low To Steep Dip. | 60 |
| | | 100 | 509.3 | | 100 |
| | | 85 | | | 85 |
| | | 40 | | | 40 |
| | | 100 | | | 100 |
| | | 70 | 504.3 | S-Slickensided Surface 145.4 ft. | 70 |
| 144.5 | Hard Medium Blue Gray Mafic Gneiss | 80 | | S-Slickensided Surface 148.2 ft. | 80 |
| | | 60 | | | 60 |
| | | 50 | | | 50 |
| | | 100 | 499.3 | | 100 |
| | | 100 | | | 100 |
| | | 50 | | 151.0 to 153.0 ft.: Slight To Moderate Weathering. Very Close Healed Joints - Low To Steep Dip. | 50 |
| 151.0 | Hard Very Light Gray Felsic Gneiss | 100 | | | 100 |
| 153.0 | Moderately Hard To Hard Light Olive ** | 80 | | 1/2 - 1 Inch Quartzite And Calcite Veins - Low To Medium Dip (154.5 - 155.7 ft.) | 80 |
| 153.9 | | 85 | 494.3 | | 85 |
| | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | | | 100 |
| | | 92 | 489.3 | 92 | |

BORING AND SAMPLING MEETS ASTM D-1586 * Gneiss
CORE DRILLING MEETS ASTM D-5113 ** Gray Mafic Gneiss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME DIEZ MIN. | 489.3 ELEV. | REMARKS | R.Q.D. |
|-----------|--|------------------------------|----------------|--|--------|
| 160.0 | Hard Very Light Gray Felsic Gneiss | NQ 92 | | 153.0 ft to 193.0 ft.: Very Slight Weathering. Close Healed Joints, Some Calcite Filled - Low To Steep Dip. | 92 |
| | | | 484.3 | 1/8 Inch Chlorite Vein (165.2 ft.) | 100 |
| 165.0 | Hard Interlayered And Interfingering Very Light Gray Felsic Gneiss And Medium Light Gray Mafic Gneiss | 100 | | Schistose Zone With Slick Surface - Medium Dip (162.0 ft.) | 100 |
| | | | 479.3 | | 100 |
| | | | 474.3 | | 90 |
| 174.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | 90 | | | 90 |
| | | | 469.3 | | 86 |
| | | | 464.3 | Mafic Gneiss (181.4 - 181.8 ft.) | 86 |
| 183.4 | Hard Medium Gray Mafic Gneiss | | | | 92 |
| 184.4 | Hard To Very Hard Very Light Gray Felsic Gneiss | 92 | | | 92 |
| | | | 459.3 | | 100 |
| 193.0 | Coring Terminated At 193.0 ft. Groundwater At 64.8 ft After 24 Hours Drilling Water Loss At 124.0 ft. | | 454.3 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME DIEZ MIN. | 624.7 ELEV. | REMARKS | R.Q.D. |
|-----------|---|------------------------------|----------------|---------|--|
| 0 | Very Stiff Tan Red Fine to Medlum Sandy Clayey Silt | | | | |
| | | | 619.7 | | N=27 |
| | Silty Fine To Coarse Sand Layer @ 5 ft. | | | | N=23 |
| 7.0 | Very Stiff Tan Fine Sandy Very Micaceous Silt | | 614.7 | | N=26 |
| | | | 609.7 | | N=28 |
| | | | 604.7 | | N=37 |
| 20.0 | Hard To Very Stiff Green Tan Fine Sandy Very Micaceous Silt | | 599.7 | | N=25 |
| | | | 594.7 | | |
| 27.5 | Very Stiff To Hard White And Tan Fine Sandy Silt | | | | |
| 30.0 | Partially Weathered Rock | | | | N=50/1" No Recovery Carbide Bit Refusal And Top Of Continuous Rock At 34.3 ft |
| | | | 589.7 | | |
| 34.3 | Hard to Very Hard Very Light Gray to Light Blue Gray Felsic Gneiss | NX 100 | | | 34.3 ft - 61.0 ft: Very Slight Weathering. Very Close Healed Joints - Medium Dip. Dark Gray Inclusions (Xenoliths) |
| 40.0 | | | 584.7 | | 77 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-45G

DATE DRILLED 2-6-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 1 of 2

TEST BORING RECORD

BORING NO. B-46

DATE DRILLED 7-13-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | | ELEV. | REMARKS | R.Q.D. | | |
|--------------|--|-------------------------------|-------|-------|---|--------|-------|--|
| | | | | | | | | |
| 40.0 | Hard to Very Hard Very Light Gray to Light Blue Gray Felsic Gneiss | NX | 100 | 584.7 | Close Joints, Generally Smooth and Clean - Low to Medium Dip (34.4 ft - 42.0 ft) | 77 | | |
| | | NX | | | | | | |
| | | 96 | 579.7 | | | 93 | | |
| | | | 574.7 | | | | | |
| | Coring Terminated @ 61.0 ft. Groundwater @ 39 ft After 24 Hours. Drilling Water Loss At 39.5 ft. | 97 | | 569.7 | Close to Very Close Joints - Rough-Coated with Purple and Black Oxide Low to Steep Dip (50.2 ft - 53.0 ft) Moderately Severe Weathering Zones (52.2 ft - 52.5 ft) Close Joints - Calcite and Epidote Coated - Medium Dip (52.5 ft - 61.0 ft) | 93 | | |
| | | | | | | | 564.7 | |
| 61.0 | | | | | | | 559.7 | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | | ELEV. | REMARKS | R.Q.D. | |
|--------------|---|-------------------------------|--|-------|---------|---|------|
| | | | | | | | |
| 0 | Very Stiff Orange Tan Silt (Slightly Clayey Near Surface) | | | 602.8 | | | |
| | | | | | | 597.8 | N=20 |
| 6.0 | Very Stiff Tan Fine to Medium Sandy Silt | | | 592.8 | | N=16 | |
| | | | | | | 587.8 | N=25 |
| 15.0 | | | | | | Dense Tan Gray Silty Fine to Medium Sand | |
| 22.0 | Partially Weathered Rock | | | 577.8 | | N=50/0" No Recovery | |
| 23.5 | | | | | | Moderately Hard to Hard Very Light Gray Felsic Gneiss | NX |
| | | | | 567.8 | | 67 | |
| | | | | 567.8 | | | |
| | | | | 562.8 | | 83 | |
| 40.0 | | | | 562.8 | | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|---|--------|
| 40.0 | Hard to Very Hard Light Blue Gray Felsic Gneiss | NX 100 | 557.8 | 40.0 ft - 56.4 ft: Very Slight Weathering. Very Close Healed Joints-Low to Steep Dip. Close Joints-Low Dip (43.0 - 44.0 ft) S (44.0 ft - 45.0 ft) | 83 |
| | | | | △ L, S | |
| | | | | △ L, S-Moderate Weathering △ M | |
| | | | | △ M. Schistose Zone | |
| | Coring Terminated at 56.4 ft Groundwater At 22 ft After 24 Hours No Drilling Water Loss | NX 100 | 542.8 | △ L | 91 |
| | | | | △ L | |
| | | | | △ M. Slight Weathering L Rock Mass Contains Inclusions, Up to 1-1/2 Inches Diameter, of Fine Grained Material, Possibly Mafic Gneiss | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|--|--------|
| 0 | Firm Red Brown Silty Clayey Fine To: Medium Sand | | 606.8 | N#16 | |
| 5.0 | | | | | |
| | Very Silty Fine To Medium Sand Layer at 8 ft. | | 601.8 | N#11 | |
| 11.0 | | | | | |
| | Firm Gray Silty Fine To Medium Sand | | 596.8 | N#4 | |
| 15.0 | | | | | |
| | Moderately Hard Very Light Gray To Pinkish Gray Felsic Gneiss | NX 54 | 586.8 | N#13 | |
| 21.6 | | | | | |
| | Very Soft Rock (Core Loss) | | 576.8 | Carbide Bit Refusal at 21.6 ft. 21.6 ft to 32.9 ft | 7 |
| 32.9 | | | | | |
| | Very Stiff To Hard Fine To Medium Sandy Silt To Partially Weathered Rock That Becomes Tan And Gray Very Silty * | 33 | 581.8 | Moderately Severe To Moderate Weathering | 15 |
| 37.9 | | | | | |
| 40.0 | | 0 | 571.8 | Very Close To Close Joints - Low To Steep Dip | 0 |
| | | | | Very Close Healed Joints - Some Leached - 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 1-1/2 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 1/2 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586 * 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 1-1/2 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 1/2 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|----------------|-----------|-------|--|----------|
| 40.0 | Very Stiff To Hard Fine To Medium Sandy Silt To Partially Weathered Rock That Becomes Tan And Gray Very Silty * | | | | N=50/4" Top Of Continuous Rock And Carbide Refusal (Second) @ 42.6 ft. | |
| 42.0 | Moderately Hard Pinkish Gray Felsic Gneiss | | | | | |
| 43.3 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX | | 566.8 | L Within Schistose Zone | 100 |
| | | 100 | | | 42.9 ft To 43.3ft: Moderate Weathering Very Close Healed Joints- Partly Leached-Medium To Steep Dip | 100 |
| | | | | 561.8 | M | 100 |
| | | 100 | | | 43.3 ft To 67.9 ft: Slight To Very Slight Weathering Moderately Close To Wide Joints-Low Dip | 100 |
| | | | | 556.8 | M | |
| | | | | | Very Close To Close Healed Joints - Low To Steep Dip | |
| | | 100 | | 551.8 | M | 100 |
| | | | | | Low Dip, Thin Schistose Zones (60.5 - 61.5 ft.) | 100 |
| | | | | 546.8 | Note: Rock Contains Xenoliths Of Mafic Gneiss Up To 2 in. Diameter | |
| 67.9 | Coring Terminated @ 67.9 ft. Groundwater At 23.4 ft At Time Of Boring Groundwater At 28.0 ft After 24 Hours Drilling Water Loss At 23.0 ft. | | | | | |

BORING AND SAMPLING MEETS ASTM D-1588 * Fine To Medium Sand When
CORE DRILLING MEETS ASTM D-2113 Sampled
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|----------------|-----------|-------|---------|----------|
| 0 | Stiff Orange Slightly Clayey Fine To Medium Sandy Silt | | | | | |
| | | | | 587.4 | N=11 | |
| 6.0 | Firm Tan Silty Fine To Medium Sand And Stiff Tan Fine To Medium Sandy Silt | | | 582.4 | N=13 | |
| | | | | 577.4 | N=17 | |
| | | | | 572.4 | N=12 | |
| | | | | 567.4 | N=13 | |
| 27.0 | Very Stiff Tan Fine To Medium Very Sandy Silt | | | 562.4 | N=26 | |
| | | | | 557.4 | N=30 | |
| 39.5 | | | | 552.4 | N=50/6" | |
| 40.0 | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1588 * Partially Weathered Rock That Becomes
CORE DRILLING MEETS ASTM D-2113 Tan Very To Slightly Silty Fine To
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER Medium Sand When
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT. Sampled

TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|-----------------|-----------|-------|--|----------|
| 40.0 | Partially Weathered Rock That Becomes Tan Very To Slightly Silty Fine To Medium Sand When Sampled --Dense Silty Fine To Medium Sand Seam At 42 ft to 44 ft. | | | | | |
| | | | | 547.4 | N=89 | |
| | | | | 542.4 | N=50/3" | |
| | | | | 537.4 | N=50/3" | |
| 56.8 | Hard Yellowish Gray Felsic Gneiss | NX | | 532.4 | Carbide Bit Refusal At 56.8 ft. 56.8 ft - 61.5 ft: Moderate Weathering. Close Joints - Low To Steep Dips. Very Close Healed Joints - Low To Medium Dip. | 43 |
| 61.5 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | | 527.4 | Top Of Continuous Rock At 61.2 ft Steep, 1-Inch Thick, Pegmatite Vein - Partly Leached (60.8 ft) 61.5 ft - 76.5 ft: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | | 4.8 | 522.4 | Xenolith Of Mafic Gneiss (61.9 ft - 62.3 ft) | 100 |
| 75.0 | Hard Light Bluish Gray Schistose Felsic Gneiss | | | 517.4 | 76.5 ft - 82.5 ft: Very Slight Weathering. Close Healed Joints - Medium To Steep Dip | 100 |
| 76.5 | Very Hard Mixed Unit Of White Quartz (90%) And Light Bluish Gray Felsic Gneiss | | | 512.4 | Brecciated Zone (77.8 ft - 79.0 ft) | |
| 80.0 | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-----------------|-----------|-------|---------|----------|
| 80.0 | Very Hard Mixed Unit Of White Quartz (90%) And Light Bluish Gray Felsic Gneiss | NX | | 22.2 | | 100 |
| 82.5 | Coring Terminated at 82.5 Ft Groundwater At 23.7 ft At Time Of Boring Groundwater At 22.0 ft After 24 Hours No Drilling Water Loss | | | 507.4 | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-49

DATE DRILLED 7-24-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------------|------------|-------------|
| 0 | Firm Orange Silty Fine to Medium Sand | | | |
| | | 569.5 | N=11 | |
| 7.0 | Very Stiff Green and Orange Silt | 564.5 | N=18 | |
| 12.0 | Stiff to Very Stiff Tan Fine to Medium Sandy Silt | 559.5 | N=12 | |
| | | 554.5 | N=15 | |
| | | 549.5 | N=17 | |
| 26.0 | Very Stiff Gray And Tan Fine To Medium Sandy Silt | 544.5 | N=18 | |
| | | 539.5 | N=18 | |
| 37.0 | Partially Weathered Rock That Becomes Tan Silty Fine to Coarse Sand When Sampled | 534.5 | N=50/4 in. | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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-50
DATE DRILLED 7-25-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------------|--|-------------|
| 40.0 | Partially Weathered Rock That Becomes Tan Silty Fine to Coarse Sand When * | | Carbide Bit Refusal And Top of Continuous Rock at 41.4 ft | |
| 41.4 | Hard to Very Hard Light Bluish Gray Felsic Gneiss | 529.5 | 41.4 ft - 43.1 ft: Slight Weathering Close Healed Joints-Low to Steep Dip | 85 |
| | | 524.5 | 43.1 ft - 44.0 ft: Moderate Weathering. Very Close Joints-Low to Steep Dip | |
| | | 519.5 | 44.0 ft - 67.9 ft: Slight Weathering. Close Joints-Low to Steep Dip- Mostly with Calcite and Epidote Coating.** | 92 |
| | | 514.5 | Steep Joint with Cross-Cutting Low Joint-Both Calcite Coated | |
| | | 509.5 | Rough, Oxide and Epidote Coated Surface. Some Leaching of Healed Joints (62.0 ft - 64.5 ft). | |
| | | 504.5 | Rough-Coated with Oxide, Epidote and Minor Calcite | 90 |
| 67.9 | Coring Terminated at 67.9 ft Groundwater At 27.5 ft At Time Of Boring Groundwater At 29 ft After 24 Hours Drilling Water Loss At 48.0 ft. | | Rough with Calcite, Oxide and Epidote Note: This Rock is Generally Fine Grained, and is More Schistose in Appearance and Contains More Calcite than Coarser Grained Varieties. † Medium Dip Schistose Zone (54.4 - 55.3 ft) With Moderately Severe Weathering (54.4 ft - 54.6 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1588 * Sampled
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

** Very Close Healed Joints-Low to Steep Dip (Some Leached).
Page 2 of 2

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|-----------------|-------|---|----------|
| 0 | Firm Brown Tan Slightly Silty Fine To Medium Sand | | 578.4 | | |
| | | N=19 | | | |
| 5.0 | Very Dense Tan Silty Fine To Very Coarse Sand With Some Quartz Fragments | | 573.4 | | |
| | | N=55 | 568.4 | | |
| | | N=59 | 563.4 | | |
| 17.0 | Partially Weathered Rock That Becomes Tan Gray Silty Fine To Very Coarse Sand When Sampled | | 558.4 | | |
| | | N=50/5" | | | |
| | | N=50/4" | 553.4 | | |
| 24.0 | Hard Brown To Dark Green Fine Sandy Silt | | 548.4 | | |
| | | N=32 | | | |
| | | N=96 | 543.4 | | |
| 36.7 | Hard Dark Greenish Gray Mafic Gneiss | NX | | Carbide Bit Refusal And Top Of Continuous Rock At 36.7 ft | |
| 40.0 | | 100 | 538.4 | | 94 |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-----------------|-------|--|----------|
| 40.0 | Partially Weathered Rock That Becomes Gray Silty Fine To Coarse Sand With Weathered Rock Fragments When Sampled | | 552.5 | | |
| | | N=50/4" | | | |
| | | N=50/2" | | | |
| | Very Silty Seam At 50.0 Ft | | 547.5 | | |
| | | N=50/5-1/2" | | | |
| | | N=50/1 1/2 in. | 542.5 | | |
| 57.0 | Hard Very Light Gray Felsic Gneiss | NX | | Carbide Bit Refusal And Top Of Continuous Rock 57.0 Ft. | 75 |
| | | 88 | 537.5 | 57.0 - 62.0 Ft: Slight Weathering. Close Joints - Oxide Coated Low To Medium Dip | |
| 62.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 532.5 | Very Close Healed Joints - Partly Leached - Low To Steep Dip. | 93 |
| | | 96 | | | |
| | | 98 | 527.5 | Very Slight Weathering. Moderately Close Joints - Low To Steep Dip. | 87 |
| | | 98 | 522.5 | Close Healed Joints - Low To Steep Dip. | |
| | | 98 | | 1/2 Inch Calcite Veins (67.0 ft.) | |
| | | 98 | | Stickensided Zone At 76.4 ft. (Oriented Biotite) | |
| | | 98 | | Moderately Weathered Zone - 2 In. Thick (77.5 Ft). | 94 |
| 80.0 | | 100 | 517.5 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-813
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 3
TEST BORING RECORD
 BORING NO. B-52
 DATE DRILLED 7-30-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

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

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-813
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

* 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.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & VINE SIZE MIN. | 517.5 ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------------|---|----------|
| 88.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | | |
| | | | | ▲ L With Calcite and Limonite | 94 |
| | | | 512.5 | ▲ S With Quartz Slight to Moderate Weathering (84.5 Ft - 87.0 Ft) | |
| 88.1 | Coring Terminated at 88.1 Ft Groundwater At 38. ft After 24 Hours Drilling Water Loss At 84.3 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.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 3 of 3
TEST BORING RECORD
B-51

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & VINE SIZE MIN. | 578.4 ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------------|---|----------|
| 0 | Firm Brown Tan Slightly Silty Fine To Medium Sand | | | | |
| | | | 573.4 | N=19 | |
| 5.0 | Very Dense Tan Silty Fine To Very Coarse Sand With Some Quartz Fragments | | 568.4 | N=55 | |
| | | | 563.4 | N=59 | |
| 17.0 | Partially Weathered Rock That Becomes Tan Gray Silty Fine to Very Coarse Sand When Sampled | | 558.4 | N=50/5" | |
| | | | 553.4 | N=50/4" | |
| 24.0 | Hard Brown To Dark Green Fine Sandy Silt | | 548.4 | N=32 | |
| | | | 543.4 | N=96 | |
| 36.7 | Hard Dark Greenish Gray Malic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock At 36.7 ft | |
| 40.0 | | | 538.4 | ▲ L | 94 |

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

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

Page 1 of 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME DIAZ MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|--------------------------------------|-------------------------------------|--|-------------|
| 40.0 | Hard Dark Greenish Gray Mafic Gneiss | 538.4 | | |
| | | NX 100 | △ L 36.7 ft - 82.0 ft Very Slight Weathering Wide Spaced Joints - Low Dip | 94 |
| | | 533.4 | △ L Close Spaced Healed Joints Medium To Steep Dip | 100 |
| | | 528.4 | △ L | |
| | | 523.4 | △ L Calcite And Epidote Rich, Partly Schistose Interval (55.0 - 57.0 ft) | 100 |
| | | 518.4 | △△△ F F F | |
| | | 513.4 | △ L | |
| | | 508.4 | 1/8 in. Thick Epidotized Brecciated Zones-Low Dip: 69.4 ft. 72.0 ft. | 100 |
| | | 503.4 | Medium Dip Slickensided Zone (76.2 ft) | 100 |
| 80.0 | | 498.4 | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME DIAZ MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|--------------------------------------|-------------------------------------|---|-------------|
| 80.0 | Hard Dark Greenish Gray Mafic Gneiss | 498.4 | | |
| | | NX 100 | △ L △ M | 100 |
| 82.0 | | | Coring Terminated @ 82.0 ft. Groundwater @ 10 ft. After 24 Hours No Drilling Water Loss | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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 3 of 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 609.5 ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|----------------|--|--------|
| 0 | Stiff Orange Tan Slightly Sandy Slightly Clayey Silt | | | | |
| 5.0 | Firm Red And Yellow Tan Silty Fine To Medium Sand | | 604.5 | N=15 | |
| | | | 599.5 | N=11 | |
| | -Firm Sandy Micaceous Silt Seam At 14.0 Ft | | 594.5 | N=8 | |
| 17.0 | Partially Weathered Rock That Becomes Tan Gray Silty Fine To Very Coarse Sand With Weathered Rock Fragments When Sampled | | 589.5 | N=50/3 In. | |
| | | | 584.5 | N=50/4 In. | |
| | | | 579.5 | N=77 | |
| 34.7 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | 574.5 | N=50/1 In. Carbide Bit Refusal And Top Of Continuous Rock At 34.7 Ft. 34.7 Ft - 52.5 Ft: | 89 |
| 40.0 | | NX 94 | 569.5 | Slight Weathering. Close Joints - Oxide Coated - Low To Medium Dip | 82 |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 4
TEST BORING RECORD
 B-53

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 569.5 ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|----------------|--|--------|
| 40.0 | Hard Light Bluish Gray Felsic Gneiss | NX 94 | 564.5 | Close To Very Close Healed Joints - Some Leached Above 62.0 Ft - Low To Steep Dip (34.7 Ft - 139.6 Ft) | 82 |
| 52.5 | Moderately Hard Pinkish Gray Felsic Gneiss | 93 | 559.5 | 2 In. Zone Of Moderate Weathering (51.5 Ft) | |
| | | | 554.5 | 52.5 Ft - 60.0 Ft: Moderate Weathering. Close And Very Close Joints - Low To Steep Dip. Pegmatite Zone (56.0 Ft - 57.0 Ft) | 55 |
| 60.0 | Hard Medium Light Gray Felsic Gneiss | 100 | 549.5 | 6 In. Zone Of Mafic Gneiss At 60.0 Ft | |
| 64.5 | Hard Medium Gray Fine Grained Mafic Gneiss | | 544.5 | 1/4 In. Pegmatite Vein (60.0 Ft - 61.0 Ft) 1/4 In. Calcite Vein (63.5 Ft - 64.5 Ft) | 79 |
| 69.5 | Hard Medium Light Gray Felsic Gneiss | 100 | 539.5 | Close Joints - Low Dip (60.0 Ft - 64.5 Ft) Slight To Very Slight Weathering (60.0 Ft - 139.6 Ft) | |
| | | | 534.5 | Close Joints - Low To Medium Dip (64.5 Ft - 76.0 Ft) 1/4 In. Quartz Vein (68.0 Ft - 68.5 Ft) | 98 |
| 80.0 | | | 529.5 | Distortion Of Contact And Pyrite Enrichment (69.5 Ft) Xenoliths Of Mafic Gneiss (69.5 Ft - 81.0 Ft) | 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 CORE RECOVERY WATER TABLE, 1 HR.
 STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 4
TEST BORING RECORD
 B-53

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------------|---------|-------------|
| 0 | Very Stiff Red Brown Fine Sandy Micaceous Silt | 621.6 | | |
| 6.5 | Very Stiff Orange Brown Fine Sandy Micaceous Silt | 616.6 N=17 | | |
| 10.0 | Hard Tan Gray Fine To Coarse Sandy Silt | 611.6 N=19 | | |
| 16.0 | Very Stiff Tan Fine Slightly Sandy Micaceous Silt | 606.6 N=39 | | |
| 21.5 | Hard To Stiff Brown Tan Fine To Coarse Sandy Silt | 601.6 N=19 | | |
| 31.0 | Stiff To Hard Tan Brown And Tan Gray Fine To Medium Sandy Silt With Varying Amounts Of Mica | 596.6 N=34 | | |
| | Very Silty Fine To Medium Sand Layer At 33 ft. | 591.6 N=9 | | |
| | | 586.6 N=8 | | |
| 40.0 | | 581.6 N=28 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-54
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------------|---------|-------------|
| 40.0 | Stiff To Hard Tan Brown And Tan Gray Fine To Medium Sandy Silt With Varying Amounts Of Mica | 578.6 N=27 | | |
| | | 571.6 N=21 | | |
| | | 566.6 N=26 | | |
| | | 561.6 N=32 | | |
| 63.0 | Partially Weathered Rock That Becomes Tan Gray Fine To Medium Sandy Silt When Sampled | 556.6 N=50/1 | | |
| | | 551.6 N=50/5 | | |
| | Very Silty Fine To Medium Sand Layer At 73 ft. | 546.6 N=50/2 | | |
| 80.0 | | 541.6 N=50/2 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-54
DATE DRILLED 8-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 541.6 ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|----------------|--|--------|
| 80.0 | Partially Weathered Rock That Becomes Tan Gray Fine To Medium Sandy Silt When Sampled | | 536.6 | N=50/2 In. | |
| | | | 531.6 | N=50/0 In. | |
| 94.5 | Medium And Moderately Hard Very Light Gray To Yellowish Gray Felsic Gneiss | NX 27 | 526.6 | Carbide Bit Refusal At 94.5 ft. 94.5 Ft - 105.0 Ft: Moderate Weathering Close To Very Close Joints - Low To Steep Dip | 9 |
| | | | 521.6 | Very Close Healed Joints - Low To Steep Dip - Partly Leached | |
| 105.0 | Very Soft To Medium Olive Gr Felsic Gneiss | 60 | 516.6 | 105.0 Ft - 109.0 Ft: Very Severe To Moderately Severe Weathering. Close Joints - Low To Medium Dip. Close Healed Joints - Low To Steep Dip | 0 |
| 109.0 | Hard Light Blue Gray Felsic Gneiss | 88 | 511.6 | 109.0 Ft - 114.5 Ft: Slight To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Leached Joints - Low To Steep Dip. | 55 |
| 114.5 | Medium Hard Medium Gray Mafic Gneiss | | 506.6 | 114.5 Ft - 118.5 Ft: Moderately Severe Weathering. Very Close Healed Joints - Medium Dip. | |
| 118.5 | Hard Mixed Unit Including Medium Dark Gray Fine Grained Mafic Gneiss (35%), Greenish Black Medium To Coarse Grained Mafic Gneiss | 78 | 501.6 | Calcite Veins Up To 1/4 In. Thick. Top Of Continuous Rock At 119.0 Ft | 70 |

BORING AND SAMPLING MEETS ASTM D-1586 (60%) And Very Light Gray Felsic Gneiss

CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-54

DATE DRILLED 8-7-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 501.6 ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|----------------|---|--------|
| 120.0 | Hard Mixed Unit Including Medium Dark Gray Fine Grained Mafic Gneiss (35%), Greenish Black Medium To Coarse Grained Mafic Gneiss (60%) And Very Light Gray Felsic Gneiss (5%) | NX 78 | 496.6 | 118.5 Ft - 137.7 Ft: Slight Weathering Close To Moderately Close Joints - Low To Medium Dip Close Healed Joints - Low To Steep Dip | 70 |
| 126.0 | Hard Very Light Gray Felsic Gneiss | | 491.6 | | |
| 128.2 | Hard Medium Dark Gray Fine Grained Mafic Gneiss | | 486.6 | | |
| 129.5 | Hard Very Light Gray Felsic Gneiss | 100 | 481.6 | | 95 |
| 137.7 | Hard Medium Dark Gray Fine Grained Mafic Gneiss | 100 | 476.6 | 137.7 Ft - 147.7 Ft: Very Slight Weathering Close Healed Joints - Many With Calcite - Low To Steep Dip | 97 |
| 146.8 | Very Hard Very Light Gray Felsic Gneiss | | | Within 3-Inch Zone of Moderate Weathering | |
| 147.7 | Coring Terminated at 147.7 Ft Groundwater At 37 ft After 24 Hours No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-54

DATE DRILLED 8-7-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|---|-------------|-------------------------|-------|---|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 622.7 | | | | | |
| Drilled To 38.0 ft With Carbide Tipped Bit (No Soil Samples To 38 ft) | | | | | |
| | | | 617.7 | | |
| | | | 612.7 | | |
| | | | 607.7 | | |
| | | | 602.7 | | |
| | | | 597.7 | | |
| | | | 592.7 | | |
| | | | 587.7 | | |
| 48.0 | | | 582.7 | N=50/5 1/2" Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|--------------------------|-------------------------|-------|--|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 582.7 | | | | | |
| 40.0 | | | 577.7 | N=57 Gray Tan Silty Fine To Medium Sand | |
| | | | 572.7 | N=28 Dark Green Gray Micaceous Silt | |
| | | | 567.7 | | |
| 57.0 | Partially Weathered Rock | | 562.7 | N=50/5 1/2" Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | |
| | | | 557.7 | N=50/1 1/2" Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled. | |
| | | | 552.7 | N=50/2" Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | |
| | | | 547.7 | | |
| 80.0 | | | 542.7 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R. Q. D. |
|-----------|---|---------------------------------|-------|--|----------|
| 80.0 | Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand | | | | |
| 82.0 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock @ 82 ft. 82 ft - 114.9 ft: Slightly Weathered. Very Close Healed And Partially Leached Joints, Low To Steep Dip - Many Calcite Coated. | 91 |
| | | | 537.7 | | |
| | | 94 | 532.7 | | 88 |
| | | | 527.7 | Steeply Dipping, Leached Quartz Vein Terminating In A Moderately Severely Weathered Schistose Zone (93.2 ft - 94.5 ft.) | |
| | | 100 | 522.7 | | 95 |
| | | | 517.7 | | |
| | | 100 | 512.7 | | 89 |
| | | | 507.7 | | |
| 114.9 | Coring Terminated At 114.9 ft. Groundwater At 39.0 ft At Time Of Boring Groundwater At 34.0 ft After 24 Hours | | | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

* When Sampled
** No Drilling Water Loss

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R. Q. D. |
|-----------|--|---------------------------------|-------|---------|----------|
| 0 | Hard Red Brown Fine to Medium Sandy Clayey Silt | | | | |
| 5.0 | Very Stiff Orange Gray Slightly to Fine Sandy Micaceous Silt | | | | |
| | | | 603.9 | | N=35 |
| | | | 598.9 | | N=15 |
| | | | 593.9 | | N=16 |
| | | | 588.9 | | N=16 |
| | | | 583.9 | | N=22 |
| | | | 578.9 | | N=18 |
| | | | 573.9 | | N=33 |
| 40.0 | | | 568.9 | | N=25 |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 4

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 568.9 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|---------------------------------|----------------|--|-------------|
| 40.0 | Hard Tan Fine to Medium Sandy Silt | | | | |
| | | | 563.9 | N=41 | |
| 48.5 | Partially Weathered Rock That Becomes Gray Micaceous Silty Fine to Medium Sand | | 558.9 | N=50/5 1/2" | |
| | | | 553.9 | N=50/2" | |
| 56.9 | Hard Very Light Gray Fine to Medium Grained Felsic Gneiss | NX 96 | 548.9 | Carbide Bit Refusal @ 56.9 ft. 56.9 ft to 74.0 ft: Slight Weathering. Close Joints - Low to Medium Dip. Very Close Healed and Partially Leached Joints - Low to Steep Dip. | 57 |
| | | NX 92 | 543.9 | Both Healed and Open Joints Have Epidote and Clay | 37 |
| | | | 538.9 | | |
| 74.0 | Hard to Very Hard Light Bluish Gray Fine to Medium Grained Felsic Gneiss | NX 95 | 533.9 | Top of Continuous Rock @ 74.0 ft. 74.0 ft to 145.5 ft: Very Slightly Weathered. Very Close Healed Joints, Some Partially Leached - Low to Steep Dip. | 54 |
| | | BQ 100 | 528.9 | | 95 |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 2 of 4
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO. Page 51 of 298

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 528.9 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|---------------------------------|----------------|--|-------------|
| 80.0 | Hard to Very Hard Light Bluish Gray Fine to Medium Grained Felsic Gneiss | BQ 100 | 523.9 | | 95 |
| | | BQ 100 | 518.9 | | |
| | | BQ 100 | 513.9 | Brecciated, in Part. Medium to Steep Dip With Calcite And Ferromagnesian Schistose Zone (93.8 ft.) | 98 |
| | | | 508.9 | Moderately Weathered. Quartz Veins With Sericite and Clay at Contacts (99.8 ft to 100.2ft) 1/4 Inch Quartz Vein (10h5 ft.) | |
| | | BQ 100 | 503.9 | | |
| | | | 498.9 | 2-Inch Quartz Vein - Medium Dip (109.2 ft.) | |
| | | | 493.9 | Steeply Dipping Quartz Vein (111.5 - 113.5 ft.) | 100 |
| 120.0 | | BQ 100 | 488.9 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 3 of 4
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 488.9 ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------------|---|----------|
| 120.0 | Hard To Very Hard Light Bluish Gray Fine To Medium Grained Felsic Gneiss | BQ 100 | 483.9 | Steep Dip Quart Vein With Pyrite Crystals Up To 1/4" Diameter at Contact (132.4 ft - 133.4 ft.) | 100 |
| | | | 478.9 | | |
| | | | 473.9 | | |
| | | | 468.9 | | |
| | Coring Terminated At 145.5 ft. Groundwater At 29 ft After 24 Hours. Drilling Water Loss At 76.5 ft. | BQ 99 | 463.9 | 1/2 Inch Quartz Vein, Steep Dip With Schistose Zones at Contacts (140.0 ft.) | 97 |
| | | | 463.9 | | |

BORING AND SAMPLING MEETS ASTM D-1989
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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 4 of 4

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO. Page 52 of 298

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 582.5 ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------------|---|----------|
| 0 | Very Stiff Yellow Tan Slightly Clayey Fine To Medium Sandy Silt | | 577.5 | N=24 | |
| 6.0 | | | 572.5 | | |
| | Firm To Stiff Yellow Tan Fine Sandy Micaceous Silt | | 567.5 | N=10 | |
| | | | 562.5 | | |
| | Partially Weathered Rock That Becomes Dark Green Very Silty Micaceous Fine To Medium Sand When Sampled | | 557.5 | N=50/3 In. | |
| 25.0 | | | 552.5 | | |
| | Hard Medium Bluish Gray Mafic Gneiss | NX 72 | 547.5 | Carbide Bit Refusal And Top Of Continuous Rock At 30.5 Ft 30.5 Ft - 33.6 Ft: Slight Weathering Close Joints - Low To Steep Dip Close Healed Joints - Low To Steep Dip | 47 |
| 30.5 | | | 542.5 | | |
| 40.0 | | 100 | | | 98 |

BORING AND SAMPLING MEETS ASTM D-1989
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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. 8-57
DATE DRILLED 8-6-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | 542.5 | ELEV. | REMARKS | R.Q.D. | |
|-----------|---|-----------------|-------|-------|---|---|--|
| 40.0 | Hard Medium Bluish Gray Mafic Gneiss | NX 100 | 98 | | 33.6 Ft - 62.4 Ft Very Slight Weathering | 98 | |
| | | | | | M | Moderately Close Joints - Low To Steep Dip | |
| | | | | | M | | |
| | | | | | S | Close Calcite - Healed Joints - Medium To Steep Dip | |
| | | | | | S | | |
| | | | 98 | | | 93 | |
| | | | | 537.5 | L | | |
| | | | | 532.5 | L | | |
| | | | | 527.5 | L | | |
| | | | 100 | | | 100 | |
| | | | | 522.5 | L | | |
| 62.4 | Coring Terminated At 62.4 Ft Groundwater At 8.4 ft At Time Of Boring Groundwater At 4.0 ft After 24 Hours No Drilling Water Loss | | | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | 605.5 | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------------|-------|-------|---------|--|
| 0 | Very Stiff Orange Slightly Clayey Fine To Medium Sandy Silt | NX 93 | 600.5 | | N=17 | |
| | | | | | | |
| 6.0 | Stiff Orange Tan Fine To Medium Sandy Silt | | | | | |
| | | | | 595.5 | | N=11 |
| 12.0 | Loose Orange And Yellow Tan Silty Fine To Medium Sand | | | 590.5 | | N=7 |
| 16.0 | Partially Weathered Rock That Becomes Yellow Tan Silty Fine To Very Coarse Sand When Sampled | | | 585.5 | | N=50/0" |
| | | | | 580.5 | | N=55 |
| | | | | 575.5 | | N=50/2 in. |
| 31.2 | Hard Very Light Gray Felsic Gneiss | | | 570.5 | | Carbide Bit Refusal And Top Of Continuous Rock At 31.2 Ft Very Close Healed Joints - Low To Steep Dip - Partly Leached Above 36.0 Ft (31.2 Ft - 59.5 Ft) |
| | | | | 565.5 | | Slickensided Surface At 33.0 ft Xenolith Of Mafic Gneiss 33.0 Ft 36.0 Ft Irregular Pegmatite Vein - Some Leaching Along Contact (33.3 Ft - 34.3 Ft) |
| 40.0 | | | | | | 85 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO. Page 53 of 298

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

*BQ 100
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 40.0 | | BQ | 565.5 | | |
| | Very Hard Light Bluish Gray Felsic Gndss | 100 | 560.5 | 40.0 Ft - 59.5 Ft: Very Slight Weathering Moderately Close Joints - Oxide Coated - Low Dip | 100 |
| | | | 555.5 | | |
| | | BQ | 550.5 | | 100 |
| | | 100 | 545.5 | | |
| 59.5 | Coring Terminated at 59.5 Ft Groundwater At 21.1 ft At Time Of Boring Groundwater At 23.2 ft After 24 Hours No Drilling Water Loss | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|--|--------|
| 0 | Very Stiff Tan Brown Fine To Coarse Sandy Silty Clay | | 571.4 | N=23 | |
| 7.0 | Firm Tan Micaceous Silty Fine To Coarse Sand | | 566.4 | N=30 | |
| | | | 561.4 | N=50/4" | |
| 15.5 | Partially Weathered Rock That Becomes Tan Brown To Gray Tan Micaceous Silty Fine To Coarse Sand When Sampled | | 556.4 | | |
| 20.7 | Rock Fragments Encountered At 19.5 ft. | | | Carbide Bit Refusal And Top Of Continuous Rock At 20.7 ft. | |
| 22.4 | Interlayered Moderately Hard Light Gray Felsic Schist And Felsic Gneiss | NX | | N=50/1" | |
| | Very Hard Light Bluish Gray Felsic Gneiss | 100 | 551.4 | 20.7 ft to 38.4 ft.: Slight To Very Slight Weathering. Very Close Healed And Filled Joints With Chlorite Quartz And Calcite, Slightly Leached - Low To Steep Dip | 96 |
| | | | 548.4 | Leaching Along Healed Joints: 29.1 ft, Low Dip. 29.6 ft, Steep Dip. 30.2 ft, Medium Dip. 30.6 ft, Medium Dip. | 96 |
| | | 100 | 541.4 | Quartz, Chlorite, Sericite Filled Schistose Zones: Low Dip - 21.6 ft. Medium Dip - 22.1 ft. Medium Dip - 26.9 ft. Low Dip - 27.9 to 28.3 ft. Steep Dip - 29.5 to 30.7 ft. | |
| 38.4 | Coring Terminated At 38.4 ft. Groundwater At 4.6 ft At Time Of * | | 536.4 | | |

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 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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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 1-1/4 IN. I.D. SAMPLER 1 FT.

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

Boring Stabilized Groundwater At 5.1 ft. Page 1 of 1
No Drilling Water Loss

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|---------------|--|-------------|
| 0 | Stiff Orange Slightly Clayey Fine To Medium Sandy Silt | | 637.6 | | |
| 5.0 | Dense To Very Dense Red To Tan Gray Silty Fine To Medium Sand | | 632.6 N=13 | | |
| | | | 627.6 N=29 | | |
| | | | 622.6 N=13 | | |
| | | | 617.6 N=65 | | |
| | | | 612.6 N=78 | | |
| 32.5 | Very Stiff Gray Tan Fine To Medium Sandy Silt | | 607.6 N=25 | | |
| | | | 602.6 N=50/5" | Quartz Lens @ 34.0 ft. Magnified N-Values | |
| 40.0 | | | 597.6 N=25 | | |

Page 1 of 3

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-61
DATE DRILLED 9-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|---------------|--|-------------|
| 40.0 | Very Stiff Gray Tan Fine To Medium Sandy Silt | | 597.6 | | |
| 45.0 | Firm To Dense Gray Tan Silty Fine To Medium Sand | | 592.6 N=27 | | |
| | | | 587.6 N=25 | | |
| | | | 582.6 N=50/3" | Partially Weathered Rock Ledge @ 53.5 ft. | |
| 55.0 | Hard Gray Tan Fine To Medium Sandy Silt | | 577.6 N=30 | | |
| | | | 572.6 N=60 | | |
| 69.0 | Partially Weathered Rock That Becomes Yellow And Gray Tan Silty Fine To Coarse Sand When Sampled | | 567.6 N=50/4" | | |
| | | | 562.6 N=50/2" | | |
| | | | 557.6 N=50/4" | | |
| 80.0 | | | | | |

Page 2 of 3

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-61
DATE DRILLED 9-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|--|-----------|-------------------------|--|--------|
| | | % | TIME SIZE MIN. ELEV. | | |
| 80.0 | Partially Weathered Rock That Becomes Yellow And Gray Tan Silty Fine To Coarse Sand When Sampled | | 557.6 | Brown Micaceous Silt Seam @ 83 ft. | |
| 85.5 | Hard Yellow Gray And Pink Gray Felsic Gneiss | NX 100 | 552.6 | N=50/14" Carbide Bit Refusal @ 85.5 ft. 85.5 ft - 88.0 ft: Slight To Moderate Weathering. | 35 |
| 88.0 | Hard Light Bluish Gray Felsic Gneiss | | 547.6 | Very Close To Close Joints - Low To Medium Dip. | |
| 94.1 | Medium To Moderately Hard Medium Dark Gray Mafic Gneiss | 91 | 542.6 | Very Close Healed Joints - Low To Medium Dip. Top Of Continuous Rock @ 88.0 ft. 88.0 ft - 94.1 ft: Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 84 |
| 96.1 | Hard Light Bluish Gray Felsic Gneiss | | 537.6 | Severely Leached Quartz Veins: 87.6 ft - 87.9 ft. 90.2 ft - 90.6 ft. | |
| | | 98 | 532.6 | Severely Leached Quartz Vein With Associated Brecciated Zone (93.8 ft - 94.1 ft.) 94.1 ft - 96.1 ft: Severe To Moderate Weathering. Very Close Healed Joints - Low To Medium Dip 0.8 ft. Core Loss | 98 |
| | | | 527.6 | 96.1 ft - 118.1 ft: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip - Some With Calcite - Some Schistose. | |
| | | 100 | 522.6 | M-Pyrite | 99 |
| | | | 517.6 | Slickensided Surface @ 115.0 ft. | |
| 118.1 | Coring Terminated At 118.1 ft. Groundwater At 39 ft After 24 Hours * | | | | |

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

CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.0 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

B = 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.

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| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|-------------|------|-------------------------|---|--------|
| | | % | TIME SIZE MIN. ELEV. | | |
| 0 | | | 661.5 | | |
| | | | 656.5 | | |
| | | | 651.5 | N=12 Cream And Pink Silty Fine To Medium Sand | |
| | | | 646.5 | | |
| | | | 641.5 | | |
| | | | 636.5 | | |
| | | | 631.5 | N=22 Pale Green And Pink Very Silty Fine To Medium Sand | |
| | | | 626.5 | | |
| 40.0 | | | 621.5 | N=43 Tan Green Micaceous Silty Fine To Medium Sand | |

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.0 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 4

TEST BORING RECORD

BORING NO. B-62P

DATE DRILLED 9-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|---|-------|--|--------|
| | | | | | | |
| 120.0 | Hard Light Bluish Gray And Very Light Gray Felsic Gneiss | NX 100 | M | | Zone Of Interfingering Mafic Gneiss (120.8 - 121.8 ft.) | |
| | | | | 536.5 | Schistose Zone (124.5 to 126.8 ft.) 124.5 ft to 134.5 ft. Slight Weathering, Very Close Healed Joints - Low To Steep Dip. | 87 |
| | | | | 531.5 | Low Dip, Slightly Leached Brecciated Zone (125.3 to 125.5 ft.) Vertical Quartz Vein, Greater Than 1 Inch Thick, With Schistose And Locally Brecciated Contact Zone (125.5 to 128.3 ft.) | 61 |
| | | | | 526.5 | Moderately Weathered Zone Of Interfingering Mafic Gneiss, Felsic Schist And Felsic Gneiss (130.0 to 133.4 ft.) | 87 |
| | | | | 521.5 | 134.5 ft to 159.0 ft.: Very Slight Weathering, Very Close Healed And Filled Joints With Calcite And Chlorite - Low To Steep Dip. Steep Dip Schistose Zones: 140.0 ft. 142.2 ft. | 100 |
| | | | | 516.5 | 2 Inch, Steeply Dipping Schistose Zone At Contact With Chlorite Calcite, Quartz And Muscovite (145.6 to 146.9 ft.) | |
| 146.0 | Hard Medium Gray Mafic Gneiss | NX 100 | M | 511.5 | Steeply Dipping Quartz Vein Up To 1 Inch Thick With Chlorite At Contacts And Traces Of Pyrite (150.6 to 152.7 ft.) | 100 |
| | | | | 506.5 | Irregular Calcite, Chlorite And Quartz Vein (153.3 ft.) | |
| 159.0 | | | | 501.5 | Coring Terminated @ 159.0 ft. | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|--|-------|---------------------|--|
| | | | | | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 28.4 ft. | | | 665.3 | | |
| | | | | 660.3 | | |
| | | | | 655.3 | | |
| | | | | 650.3 | | |
| | | | | 645.3 | | |
| 28.4 | | | | 640.3 | N=50/6" | Partially Weathered Rock That Becomes Pinkish Tan Fine Sandy Silt When Sampled |
| | Rotary Wash Drilled With Carbide Fishtail To 43.4 ft. | | | 635.3 | | |
| | | | | 630.3 | Complete Water Loss | |
| 40.0 | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Groundwater @ 55 ft. After 24 Hours Page 4 of 4
 CORE DRILLING MEETS ASTM D-2113 No Drilling Water Loss

TEST BORING RECORD
 BORING NO. B-62P
 DATE DRILLED 9-18-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.
 R.Q.D. ROCK QUALITY DESIGNATION

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 STANDARD PENETRATION LOSS OF DRILLING WATER
 ROCK JOINT:
 L = LOW DIP 0°-30°
 M = MED. DIP 30°-60°
 S = STEEP DIP 60°-90°

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

TEST BORING RECORD
 BORING NO. B-62AP
 DATE DRILLED 9-24-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.
 R.Q.D. ROCK QUALITY DESIGNATION

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 STANDARD PENETRATION LOSS OF DRILLING WATER
 ROCK JOINT:
 L = LOW DIP 0°-30°
 M = MED. DIP 30°-60°
 S = STEEP DIP 60°-90°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|--------------------------|---------------------------------|---|--------|
| 0 | | 643.9 | | |
| | | 638.9 | | |
| | | 633.9 | N=19 Very Stiff; Red Brown Clayey Silt | |
| | | 628.9 | | |
| | | 623.9 | | |
| | | 618.9 | | |
| | | 613.9 | N=27 Firm Tan Green Silty Fine To Medium Sand | |
| | | 608.9 | | |
| 38.0 | Partially Weathered Rock | 603.9 | Partially Weathered Rock That Becomes Tan Gray N=50/3 1/2" Fine To Medium Sandy * | |
| 40.0 | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------------|--|--------|
| 40.0 | Partially Weathered Rock | 603.9 | | |
| | | 598.9 | N=50/1 1/2" Carbide Bit Refusal @ 47.5 ft. 47.5 ft. to 61.0 ft. | |
| 47.5 | Hard And Moderately Hard Yellowish Gray Felsic Gneiss | 593.9 | Slight To Moderate Weathering. Very Close Healed And Partly Leached Joints, Low To Steep Dip. Close Joints, Low To Steep Dip (47.5 ft to 57.1 ft.) | 25 |
| | | 588.9 | | 20 |
| | | 583.9 | Top Of Continuous Rock At 57.2 ft. Complete Drilling Water Loss | |
| 61.0 | Very Hard Light Bluish Gray Felsic Gneiss | 578.9 | Moderate Weathering @ Contact 61 ft to 87.1 ft. Very Slight Weathering. Very Close Healed Joints, Low To Steep Dip. | 86 |
| 62.3 | Hard Medium Dark Gray Mafic Gneiss | 573.9 | | |
| | | 568.9 | Moderate Weathering. Moderate Weathering @ Contact. 1" Wide Quartz Vein, Medium Dip (75.5 ft.) | 91 |
| 73.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 563.9 | | 100 |
| 80.0 | | | | |

Page 1 of 3 * Silt When Sampled

TEST BORING RECORD

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

ROCK JOINTS

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

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TEST BORING RECORD

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

ROCK JOINTS

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

Page 58 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 563.9 ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|----------------|--|--------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Mafic Gneiss Xenolith, Small (80.8 ft) | 100 |
| | | | 558.9 | L | |
| 87.1 | Coring Terminated @ 87.1 ft. Groundwater @ 44 ft After 24 Hours. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-63P

DATE DRILLED 9-20-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 635.1 ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|----------------|---------|--------|
| 0 | Very Stiff Red Brown Fine To Medium Sandy Clayey Silt | | | | |
| | | | 630.1 | N=20 | |
| 6.0 | Stiff Orange Tan Fine To Medium Very Sandy Silt | | 625.1 | N=13 | |
| | | | 620.1 | N=16 | |
| 18.0 | Firm Tan Gray Silty Fine To Medium Sand | | 615.1 | N=24 | |
| | | | 610.1 | N=15 | |
| | | | 605.1 | N=67 | |
| 34.0 | Partially Weathered Rock That Becomes Tan Gray Silty Fine To Medium Sand When Sampled | | 600.1 | N=50/5" | |
| | | | | N=50/3" | |
| 40.0 | | | 595.1 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME REC. MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | Partially Weathered Rock That Becomes | | 595.1 | | |
| 41.0 | Moderately Hard Very Light Gray To Yellow Gray Felsic Gneiss | NX | | Carbide Bit Refusal At 41 ft. 41.0 ft - 50.0 ft. Moderate Weathering. Very Close Joints, Low To Steep Dip Altered To Clay Along Some Surfaces | 20 |
| | | 39 | 590.1 | | |
| | | | 585.1 | Top Of Continuous Rock 48.5 ft. | |
| 50.0 | Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | | | 50.0 ft. - 63.0 ft.: Slight Weathering. Close And Very Close Joints, Low To Medium Dip | 75 |
| | | 100 | 580.1 | S | |
| | | | 575.1 | Very Close Healed Joints - Low To Steep Dip - Quartz, Clay And Epidote - Partly Leached Above 64.0 ft. (41.0 ft - 109.0 ft.) | |
| | | 100 | 570.1 | Slight To Very Slight Weathering (63.0 ft - 100.0 ft.) | 89 |
| | | | 565.1 | L | |
| | | 100 | 560.1 | One-Inch Thick Quartz Vein - Medium Dip (73.5 ft.) | 100 |
| | | | 555.1 | L | |
| 80.0 | | 100 | | Xenoliths Of Mafic Gneiss Up To 1 1/2 Inch Diameter (41.0 ft - 109.0 ft.) | 100 |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME REC. MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---|--------|
| 80.0 | Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX | | Half-Inch Thick Quartz Vein - Steep Dip (82.6 ft.) | 100 |
| | | 100 | 550.1 | L Brecciated Zone - Steep Dip - Quartz And Clay Filled. (87.0 ft.) | |
| | | | 545.1 | L | |
| | | 100 | 540.1 | M | |
| | | | 535.1 | L | |
| | | 100 | 530.1 | M | |
| | | | 525.1 | L | |
| | | | 520.1 | M | |
| 109.0 | Hard Medium Gray Mafic Gneiss | | | 100.0 ft - 101.5 ft.: Slight To Moderate Weathering. Close Joints, Low To Medium Dip Some Leaching Along Healed Joints. (101.5 ft to 116.0 ft.) | 95 |
| | | 100 | | Very Close Healed Joints - Low To Steep Dip - Calcite And Oxides (109.0 ft to 116.0 ft.) | 95 |
| | | | | Manganese Oxide Coating. | |
| 117.0 | Coring Terminated At 117.0 ft. Groundwater At 38 ft After 24 Hours No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1889
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1 1/4 IN. I.D. SAMPLER 1 FT.

* 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

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°

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1889
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1 1/4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

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°

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|--------------------------|------|-------|---|--------|
| | | % | ELEV. | | |
| | | | 606.1 | | |
| | | | 601.1 | | |
| | | | 596.1 | N=13 Tan Gray Fine To Medium Sandy Silt | |
| | | | 591.1 | | |
| | | | 586.1 | | |
| | | | 581.1 | | |
| | | | 576.1 | N=64 Tan Gray Silty Fine To Medium Sand | |
| | | | 571.1 | | |
| 38.5 | Partially Weathered Rock | | 566.1 | Partially Weathered Rock That Becomes Tan Gray Silty Fine To Medium Sand When Sampled | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1898
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

Page 1 of 3

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|---|------|-------|--|--------|
| | | % | ELEV. | | |
| | | | 566.1 | | |
| 40.0 | Partially Weathered Rock | | 561.1 | N=50/2" Partially Weathered Rock That Becomes Tan Gray Silty Fine To Medium Sand When Sampled | |
| | | | 556.1 | | |
| | | | 551.1 | | |
| | | | 546.1 | | |
| | | | 541.1 | | |
| 67.2 | Hard Very Light Gray Felsic Gneiss | | 536.1 | Carbide Bit Refusal And Top Of Continuous Rock @ 67.2 ft. 67.2 ft. to 73.5 ft.: Slight Weathering. Very Close Healed And Occasionally Leached Joints, Low To Steep Dip. | 83 |
| 73.5 | Very Hard Light Bluish Gray Felsic Gneiss | | 531.1 | M 1 1/2 inch Steeply Dipping Leached Quartz Veins: 67.7 to 68.0 ft. 69.0 to 70.2 ft. 73.5 ft. to 107.1 ft.: Very Slight Weathering To Fresh. Very Close Healed Joints - Low To Steep Dip. Scattered Mafic Gneiss Xenoliths | 96 |
| 80.0 | | | 526.1 | Partly Leached Healed Joints (76.0 ft to 78.2 ft.) | 100 |

BORING AND SAMPLING MEETS ASTM D-1898
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

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°

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 80.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 521.1 | 3 Inch Steep Dip Quartzite Lens (90.7 ft.) | 100 |
| | | | 516.1 | | 100 |
| | | | 511.1 | | |
| | | | 506.1 | | 100 |
| | | | 501.1 | | |
| 107.1 | Coring Terminated @ 107.1 ft. Groundwater @ 19 ft. After 24 Hours. No Drilling Water Loss | | | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---------|--------|
| 0 | Very Stiff Orange Fine To Medium Sandy Clayey Silt | | 618.1 | | N=22 |
| 6.0 | | | 613.1 | | N=15 |
| 15.0 | Very Stiff Yellow Tan Slightly Sandy Micaceous Silt | | 608.1 | | N=14 |
| | | | 603.1 | | N=23 |
| | | | 598.1 | | N=24 |
| | | | 593.1 | | N=20 |
| 35.0 | Hard Gray Tan Slightly Sandy Micaceous Silt | | 588.1 | | N=23 |
| | | | 583.1 | | |
| 40.0 | | | | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. 583.1 | REMARKS | % R.Q.D. |
|--------------|--|---------------------------------|----------------|---|-------------|
| 40.0 | Hard Gray Tan Slightly Sandy Micaceous Silt | | | N=56 | |
| | | | 578.1 | N=45 | |
| 48.0 | Partially Weathered Rock That Becomes Green Brown Micaceous Silt To Gray Green Slightly Sandy Micaceous Silt | | 573.1 | N=50/5" | |
| | | | 568.1 | N=50/1 1/2" | |
| | | | 563.1 | N=50/1 1/2" | |
| | | | 558.1 | N=50/4" | |
| 64.5 | Hard Medium Bluish Gray Mafic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock At 64.5 ft. 64.5 ft to 158.3 ft. Very Slight Weathering. Very Close Calcite Healed Joints - Low To Steep Dip. | 100 |
| | | | 553.1 | | 100 |
| | | NX 100 | | | |
| | | | 548.1 | | |
| | | NX 100 | | | |
| | | | 543.1 | | 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 CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. 543.1 | REMARKS | % R.Q.D. |
|--------------|---|---------------------------------|----------------|---|-------------|
| 80.0 | Hard Medium Bluish Gray Mafic Gneiss | NX 100 | | 1/4-Inch, Medium Dip Calcite Veins With Epidote: 80.1 ft. 80.8 ft. | 100 |
| | | | 538.1 | 2-Inch, Medium Dip Vein Of Quartz And Epidote With Calcite (83.2 ft.) Medium Dip Veins Of Quartz, Calcite And Epidote 1/4 To 1 inch Thick: 86.9 ft. 101.5 ft. 88.0 ft. 102.3 ft. 89.6 ft. 104.0 ft. 92.3 ft. 112.2 ft. 96.2 ft. | 100 |
| | | NX 100 | | Steeply Dipping, 1/4-Inch Thick Quartz Vein, Brecciated In Part (96.8 ft - 97.1 ft.) | |
| | | | 528.1 | | |
| | | NX 100 | | | 100 |
| | | | 523.1 | | |
| | | NX 100 | | | |
| | | | 518.1 | | 97 |
| | | | 513.1 | Moderately Weathered Zone (107.8 ft to 108.3 ft.) | |
| | | NX 100 | | | |
| | | | 508.1 | | |
| | | | 503.1 | | 98 |

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 3 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME | | REMARKS | % R.Q.D. | |
|--------------|--|------------------|-------|--|--|----|
| | | SIZE MIN. | ELEV. | | | |
| 120.0 | Hard Medium Bluish Gray Mafic Gneiss | NX 100 | 503.1 | One-Inch Thick Vein Of Quartz And Epidote With Calcite - Medium Dip. (123.5 ft). | 98 | |
| | | | 498.1 | | | |
| | | NX 100 | 493.1 | | Interfingering Of Felsic Gneiss: 132.5 ft to 134.0 ft. 134.5 ft to 135.2 ft. | 99 |
| | | | 488.1 | | | |
| 139.2 | Hard Very Light Gray And Light Bluish Gray Felsic Gneiss | NX 100 | 483.1 | | 100 | |
| | | | 478.1 | | | |
| | | NX 100 | 473.1 | | Coring Terminated At 158.3 ft. * Groundwater At 39.0 ft After 24 Hours | |
| 158.3 | | | 468.1 | | | |

BORING AND SAMPLING MEETS ASTM D-1886 * No Drilling Water Loss

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME | | REMARKS | % R.Q.D. |
|--------------|--|------------------|-------|---------|-------------|
| | | SIZE MIN. | ELEV. | | |
| 0 | Very Stiff Orange Fine To Medium Sandy Clayey Silt | | 604.4 | | |
| 6.0 | | | 599.4 | | |
| | Very Stiff Yellow And Orange Red Fine To Medium Sandy Silt | | 594.4 | | |
| | | | 589.4 | | |
| | Very Stiff To Hard Yellow Tan Fine To Medium Sandy Silt - Very Sandy In Places | | 584.4 | | |
| | | | 579.4 | | |
| 32.0 | | | 574.4 | | |
| 40.0 | | | 569.4 | | |

BORING AND SAMPLING MEETS ASTM D-1886

Page 1 of 3

TEST BORING RECORD

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.
 STANDARD PENETRATION LOSS OF DRILLING WATER

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 569.4 ELEV. | REMARKS | N R.Q.D. | |
|--------------|---|---------------------------------------|----------------|---------|-------------|-------------|
| 40.0 | Very Stiff To Hard Yellow Tan Fine To Medium Silty Fine To Medium Sand - Very Sandy In Places | | | | N=24 | |
| | | | 564.4 | | N=26 | |
| | | | 559.4 | | N=29 | |
| | | | 554.4 | | N=31 | |
| | | | 549.4 | | N=47 | |
| | | | 544.4 | | N=25 | |
| | | | 539.4 | | N=51 | |
| | | | 534.4 | | N=75 | |
| 79.0 | | Partially Weathered Rock That Becomes | | 529.4 | | N=50/4 1/2" |
| 80.0 | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Yellow Tan Silty Fine To Medium Sand When Sampled
 CORE DRILLING MEETS ASTM D-8112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 529.4 ELEV. | REMARKS | N R.Q.D. | | |
|--------------|---|---|----------------|---|-------------|--|-----|
| 80.0 | Partially Weathered Rock That Becomes Yellow Tan Silty Fine To Medium Sand When Sampled | | | | N=50/5" | | |
| | | | 524.4 | | | | |
| 87.7 | Hard Light Bluish Gray Felsic Gneiss | | 519.4 | Carbide Bit Refusal And Top Of Continuous Rock @ 87.7 ft. 87.7 ft - 118.3 ft: Slight to Very Slight Weathering. Very Close Healed Joints - Low to Steep Dip - Calcite And Epidote Filled. Scattered Xenoliths Of Mafic Gneiss, Several Greater Than 2 Inches In Diameter Steeply Dipping Quartz Filled Brecciated Zone (94.0 ft - 95.3 ft) | 100 | | |
| | | | 514.4 | | 100 | | |
| | | | 509.4 | | 100 | | |
| | | | 504.4 | | 100 | | |
| | | | 499.4 | | 100 | | |
| | | | 494.4 | | 100 | | |
| 118.3 | | Coring Terminated At 118.3 ft. Groundwater At 40 ft After 24 Hour * | | | 489.4 | | 100 |
| | | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss
 CORE DRILLING MEETS ASTM D-8112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 610.9 ELEV. | REMARKS | N R.Q.D. |
|--------------|---|-------------------------------|----------------|---------|-------------|
| 0 | Very Stiff Orange Slightly Sandy Clayey Silt | | | | |
| 6.0 | Stiff Yellow Tan Slightly Sandy Silt | | 605.9 | N=18 | |
| 12.0 | Hard To Very STiff Gray Tan Fine To Medium Sandy Silt | | 600.9 | N=12 | |
| 17.0 | Very Stiff To Hard Gray Tan Fine To Medium Sandy Silt | | 595.9 | N=68 | |
| | | | 590.9 | N=25 | |
| | | | 585.9 | N=39 | |
| | | | 580.9 | N=84 | |
| 33.0 | Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | | 575.9 | N=50/4" | |
| 40.0 | | | 570.9 | N=50/2" | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°-40°

S = STEEP DIP 40°-90°

BORING NO. 8-68

DATE DRILLED 8-29-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 570.9 ELEV. | REMARKS | N R.Q.D. |
|--------------|---|-------------------------------|----------------|---------|-------------|
| 40.0 | Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | | | | |
| | | | 565.9 | N=50/1" | |
| | | | 560.9 | N=50/1" | |
| 53.6 | Hard Light Bluish Gray Felsic Gneiss | | 555.9 | N=50/3" | |
| | | | 550.9 | | |
| | | | 545.9 | | |
| | | | 540.9 | | |
| | | | 535.9 | | |
| 80.0 | | | 530.9 | | |

Page 2 of 4

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°-40°

S = STEEP DIP 40°-90°

BORING NO. 8-68

DATE DRILLED 8-29-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 530.9 ELEV. | REMARKS | R.Q.D. |
|-----------|--------------------------------------|---------------------------|-------------|--|--------|
| 80.0 | Hard Light Bluish Gray Felsic Gneiss | NX | | | |
| 99 | | | | | |
| | | | 525.9 | L | 96 |
| 100 | | | 520.9 | | 97 |
| | | | 515.9 | 2-inch Wide Quartz Vein - Medium Dip (94.1 ft.) | |
| 100 | | | 510.9 | | 100 |
| 99 | | | 505.9 | Medium Dip Quartz Pegmatite With 2-inch Schistose Zone at Upper Contact (102.5 ft - 103.3 ft.) | 96 |
| | | | 500.9 | Steeply Dipping Quartz Pegmatite (105.0 ft - 105.5 ft.) | |
| 100 | | | 495.9 | 1/2-inch Quartz Vein, Medium Dip (112.9 ft.) | 100 |
| 120.0 | | | 490.9 | L | |

Page 3 of 4
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

BORING NO. B-68
DATE DRILLED 8-29-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 490.9 ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------------|--|--------|
| 120.0 | Hard Light Bluish Gray Felsic Gneiss | NX | | | |
| | | 100 | | | 100 |
| | | | 485.9 | | |
| | | | 480.9 | Schistose Zone (130.8 ft. - 133.5 ft.) With Sericitic Phase (132.0 ft - 132.7 ft) | 100 |
| | | | 475.9 | Thin, Vertical Brecciated Zone Pegmatitic, In Part (134.5 ft - 135.5 ft) | |
| 140.0 | Coring Terminated At 140.0 ft. Groundwater At 54 ft After 24 Hours No Drilling Water Loss | | 470.9 | | |

Page 4 of 4
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

BORING NO. B-68
DATE DRILLED 8-29-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|--------------------------|------------------------------------|---|--------|
| 0 | | 637.4 | | |
| | | 632.4 | | |
| | | 627.4 | N=18 Yellowish And Red Fine Sandy Micaceous Silt | |
| | | 622.4 | | |
| | | 617.4 | N=39 Red Brown Micaceous Fine To Coarse Sandy Silt With Partially Weathered Rock Fragments | |
| | | 612.4 | | |
| | | 607.4 | | |
| | | 602.4 | | |
| 38.1 | Partially Weathered Rock | | | |
| 40.0 | | 597.4 | Partially Weathered Rock N=50/4" That Becomes Brown Gray Silty Fine To Coarse Sand When Sampled | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 2
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|---|------------------------------------|---|--------|
| 40.0 | Partially Weathered Rock That Becomes Brown Gray Silty Fine To Coarse Sand When Sampled | | | |
| | | 592.4 | | |
| 46.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | Carbide Bit Refusal And Top Of Continuous Rock 46.6 ft. | 100 |
| | | 587.4 | 46.6 ft - 55.4 ft. Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 92 |
| | | 582.4 | 53.5 ft - 54.5 ft. Moderate To Severe Weathering Very Close Joints - Low To Medium Dip. Very Close Healed Joints - Low To Steep Dip. | |
| | | 577.4 | 1/4-inch Pegmatite Vein - Medium Dip. | |
| | | 572.4 | 54.3 ft - 68.8 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Medium To Steep Dip. | 100 |
| 68.8 | Coring Terminated at 68.8 ft. Groundwater at 35.0 ft After 24 Hours Drilling Water Loss At 49.0 ft. | 567.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|---------|--------|
| 0 | Hard Orange-Tan Slightly Clayey Fine To Coarse Sandy Silt With Some Small Quartz Fragments | | 626.5 | | |
| 11.0 | Dense To Very Dense Pinkish-Yellow Micaceous Very Silty Fine To Coarse Sand | | 621.5 | N=80 | |
| 21.0 | Firm Tan-Gray Micaceous Very Silty Fine Sand | | 616.5 | N=39 | |
| 26.0 | Very Dense Light Gray Micaceous Very Silty Fine To Medium Sand | | 611.5 | N=52 | |
| 31.0 | Very Dense Brown-Light Gray Silty Fine To Coarse Sand With Some Small Weathered Rock Fragments | | 606.5 | N=21 | |
| 37.9 | Partially Weathered Rock That Becomes Tan-Light Gray Silty Fine To Coarse * | | 601.5 | N=84 | |
| | | | 596.5 | N=53 | |
| 40.0 | | | 591.5 | N=50/6" | |

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|--|--------|
| 40.0 | Partially Weathered Rock That Becomes Tan-Light Gray Silty Fine To Coarse Sand When Sampled | | 586.5 | N=31 NW Casing To 45.0 ft. | |
| 42.0 | Dense Tan-Light Gray Silty Micaceous Fine To Medium Sand | | 581.5 | N=50/4" Carbide Bit Refusal And Top Of Continuous Rock At 49.6 ft. | |
| 46.0 | Partially Weathered Rock That Becomes Tan-Light Gray Silty Micaceous Fine To Medium Sand When Sampled | | 576.5 | 49.6 ft to 60.3 ft. Moderate To Slight Weathering. Very Close To Close Healed And Slightly Leached Joints - Low To Steep Dip. | 60 |
| 49.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 96 | 571.5 | 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.) | 94 |
| 69.2 | Hard Medium Light Gray Mafic Gneiss | 96 | 566.5 | 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. | 100 |
| | | | 561.5 | Steep Interfingering Felsic Gneiss With Schistose Contact Zone (74.8 to 75.3 ft.) | 100 |
| | | | 556.5 | | 82 |
| | | | 551.5 | | |

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586 * Sand When Sampled

CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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 0-10°

M = MED. DIP 10°-40°

S = STEEP DIP 40°-90°

BORING AND SAMPLING MEETS ASTM D-1586 * 75.2 ft.

CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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 0-10°

M = MED. DIP 10°-40°

S = STEEP DIP 40°-90°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------|--|----------|
| 80.0 | Hard Medium Light Gray Mafic Gneiss | NQ 100 | 546.5 | Very Thin, Steep Veinlet With Quartz, Calcite, Muscovite And Chlorite (81.0 to 81.7 ft.) Very Close Calcite And Chlorite Healed And Filled Joints - Low To Steep Dip (69.2 to 89.1 ft.) | 97 |
| 89.1 | Hard Light Bluish Gray Felsic Schist | 100 | 541.5 | Interfingering Mafic Gneiss And Felsic Schist (87.9 to 89.1 ft.) Decreasing Grain Size And Increasing Mica Content With Depth (89.1 to 108.4 ft.) Steep Healed Joints (104.5 ft.) | 88 |
| | | 100 | 536.5 | | |
| | | 100 | 531.5 | | |
| | | 100 | 526.5 | | 100 |
| 08.4 | Coring Terminated At 108.4 ft. Groundwater At 28 ft. After 24 Hours No Drilling Water Loss | | 521.5 | | |

BORING AND SAMPLING MEETS ASTM D-1589
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|--|----------|
| 0 | Firm Tan Orange Fine To Medium Sandy Clayey Silt | | 601.5 | N=6 | |
| 6.0 | Firm To Stiff Tan Brown Fine To Medium Sandy Slightly Micaceous Silt | | 596.5 | N=5 | |
| | | | 591.5 | N=11 | |
| 17.0 | Very Dense Tan Brown Silty Slightly Micaceous Fine To Coarse Sand | | 586.5 | N=75 | |
| 23.2 | Partially Weathered Rock That Becomes Tan Brown Silty Fine To Coarse Sand | | 581.5 | N=50/3 1/2" | |
| | | | 576.5 | N=50/1" No Recovery | |
| 31.5 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 100 | 571.5 | Carbide Bit Refusal at 31.5 ft. 31.5 ft to 40.4 ft. Slight To Moderate Weathering. Close Joints - Low To Medium Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 56 |
| | | NX 62 | | | |
| | | NX 100 | 566.5 | Top Of Continuous Rock At 38.7 ft. Leached Irregular Quartz Vein * | 35 |
| 40.0 | | | | | 98 |

BORING AND SAMPLING MEETS ASTM D-1589
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

(37.2 to 37.5 ft.) Page 1 of 2
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|--|--------|
| 40.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 561.5 | 38.7 ft to 58.7 ft.: Very Slight Weathering. Close Healed And Rarely Leached Joints With Calcite And Chlorite - Low To Steep Dip. | 98 |
| | | | 556.5 | | |
| | | | 551.5 | Very Thin, Nearly Vertical Schistose Zone With Calcite And Chlorite (50.0 to 52.2 ft.) | 100 |
| | | | 546.5 | | |
| 58.7 | Coring Terminated at 58.7 ft. Groundwater at 6.0 ft. After 24 Hours No Drilling Water Loss | | | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|---|---------|
| 0 | Firm Orange Tan Very Silty Fine To Medium Sand | | 612.9 | | |
| | | | 607.9 | | |
| 11.0 | Firm Gray Tan Very Silty Fine To Medium Sand | | 602.9 | | N=12 |
| | | | 597.9 | | |
| 17.0 | Firm White Gray Slightly Micaceous Silty Fine To Medium Sand | | 592.9 | | N=67/9" |
| | | | 587.9 | | |
| 24.0 | Partially Weathered Rock That Becomes Gray Tan Slightly Micaceous Silty Fine To Medium Sand When Sampled | | 582.9 | | N=67/9" |
| | | | 577.9 | | |
| 31.0 | Hard Tan Gray Micaceous Fine Sandy Silt | | 577.9 | | |
| | | | | | |
| 36.0 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock At 36.0 ft. | 100 |
| 37.8 | | | | | |
| 40.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | 577.9 | | 100 |

BOHRING AND SAMPLING MEETS ASTM D-1586 * Moderately Hard To Hard Very
CORE DRILLING MEETS ASTM D-8113 Light Gray Felsic Gneiss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 2 of 2
TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CO.

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BOHRING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Sheet 1 of 2
TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------------|-------|--|--------|
| 40.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 577.9 | 36.0 ft - 57.3 ft.: Very Slight Weathering, Very Close Healed And Rarely Leached Joints - Low To Steep Dip. Low Dip Sericite Schist (44.9 to 45.1 ft.) Slightly Weathered Zone With Close To Very Close Low To Steep Dip M Joints (47.1 ft to 48.5 ft.) | 100 |
| | | NX 100 | 572.9 | | 83 |
| | | NX 97 | 567.9 | | 97 |
| | | | 562.9 | | |
| 57.3 | Coring Terminated At 57.3 ft Groundwater At 22 ft After 24 Hours Drilling Water Loss At 43.0 ft. | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 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°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

Page 2 Of 2
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|-------------|-------------------------------|-------|---|--------|
| 0 | | | 613.4 | | |
| | | | 608.4 | | |
| | | | 603.4 | N=12 Stiff Pinkish-Tan Fine To Medium Sandy Micaceous Silt | |
| | | | 598.4 | | |
| | | | 593.4 | N=22 Very Stiff Pinkish-Gray Fine To Medium Sandy Micaceous Silt | |
| | | | 588.4 | | |
| | | | 583.4 | N=23 Very Stiff Yellow-Brown Fines To Medium Sandy Micaceous Silt | |
| | | | 578.4 | N=11 Stiff Yellow-Brown Fine To Medium Sandy Micaceous Silt | |
| | | | 573.4 | Stiff Yellow-Brown Fine To Medium Sandy Micaceous Silt | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 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°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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 NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|------------------------------------|---------------------------|-------|---|--------|
| 40.0 | | | 573.4 | | |
| | | | 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 | | 558.4 | Carbide Bit Refusal At 53.0 ft. 53.0 ft to 78.0 ft. Cored With NQ Wire Line - No Recovery | |
| 55.0 | Partially Weathered Rock | | 553.4 | N=50/2" | |
| | | | 548.4 | N=50/1" Standard Penetration At 5 foot Intervals - No Recovery | |
| | | | 543.4 | N=50/1" | |
| | | | 538.4 | N=50/1" | |
| 78.0 | Soft Light Olive Gray Mafic Gneiss | NQ 0 | 533.4 | N=50/1" NW Casing To 80.0 ft. | 0 |

Page 2 of 3

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-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 80.0 | | | 533.4 | | |
| 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 | | 68 |
| 87.0 | Medium Very Light Gray Felsic Gneiss | 96 | | Severely Leached Epidote - Rich Zone (88.8 to 89.2 ft.) | |
| 89.1 | Soft To Moderately Hard Grayish Orange To Light Olive Gray Mafic Gneiss | 48 | 523.4 | | 22 |
| | | | 518.4 | 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. | 60 |
| 98.0 | Hard Grayish Green Mafic Gneiss | 80 | 513.4 | Close Joints - Low To Steep Dip (98.0 ft to 105.3 ft.) | 42 |
| | | | 508.4 | Very Severely Weathered Zone - Probable Location Of Core Loss (102.0 to 103.8 ft.) | |
| | | | 503.4 | | 68 |
| | | | 498.4 | | 100 |
| 113.0 | Coring Terminated At 113.0 ft. Groundwater At 38.0 ft At Time Of Boring No Drilling Water Loss | 100 | | | |

Page 3 of 3

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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

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.
 R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 627.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|----------------|--|-------------|
| 0 | Stiff Orange to Tan Fine to Medium Very Sandy Silt | | | | |
| | | | 622.4 | N=11 | |
| | | | 617.4 | N=13 | |
| | | | 612.4 | N=9 | |
| | | | 607.4 | N=9 | |
| | | | 602.4 | N=10 | |
| 30.0 | Very Stiff Tan Fine to Medium Sandy Silt To Firm Silty Fine To Medium Sand | | 597.4 | N=22 Carbide Bit Refusal at 35.8 ft. 35.8 ft - 39.3 ft: Moderate Weathering, Very Close Healed Joints. | |
| 35.0 | Partially Weathered Rock That Becomes* | | 592.4 | N=50/4 in. Medium to Steep Dip, Close to Very Close Joints- Low to Steep Dip - Rough Weathered Surfaces. | |
| 35.8 | Moderately Hard Yellow Gray Felsic Gneiss | NX 97 | | | 36 |
| 39.3 | Hard to Very Hard Very Light Gray ** | 97 | 587.4 | | 87 |

BORING AND SAMPLING MEETS ASTM D-1886 *Tan Gray Silty Fine to Medium Sand
CORE DRILLING MEETS ASTM D-5113 When Sampled

Page 1 of 2

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

TEST BORING RECORD

BORING NO. B-74

DATE DRILLED 7-3-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 587.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|----------------|---|-------------|
| 40.0 | Hard to Very Hard Very Light Gray Felsic Gneiss | NX | | | |
| | | 97 | 582.4 | 39.3 ft - 65.4 ft: Slight Weathering, Very Close Healed Joints - Medium to Steep Dip. Top of Continuous Rock at 40.0 ft | 87 |
| | | | 577.4 | Steep Joint Filled with 1/8 inch Fine Grained Black Material (47.3 ft) Close Joints, Mostly Rough and Clean - Low to Medium Dip (39.3 ft - 55.0 ft) | 96 |
| | | 100 | | | |
| | | 100 | 572.4 | | 100 |
| | | | | | |
| | | 100 | 567.4 | | 100 |
| | | | | | |
| | | | 562.4 | | |
| 65.4 | Coring Terminated @ 65.4 ft. Groundwater @ 31 ft After 24 Hours Drilling Water Loss At 44.0 ft. | | 557.4 | | |

BORING AND SAMPLING MEETS ASTM D-1886

CORE DRILLING MEETS ASTM D-5113

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

Page 2 of 2

TEST BORING RECORD

BORING NO. B-74

DATE DRILLED 7-3-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---------|--------|
| 0 | Stiff Reddish Tan Fine To Medium Silty Silt | | 586.3 | | |
| | | | 581.3 | N=14 | |
| 8.0 | Loose To Firm Orange Tan Very Silty Slightly Clayey Fine To Medium Sand | | 576.3 | N=10 | |
| | | | 571.3 | N=16 | |
| 18.0 | Firm Tannish Brown Very Silty Slightly Micaceous Fine To Medium Sand | | 566.3 | N=22 | |
| | | | 561.3 | N=14 | |
| | | | 556.3 | | |
| | Fine To Medium Very Sandy Silt Layer At 31 ft. | | 551.3 | N=21 | |
| | | | | N=23 | |
| 38.0 | Very Dense Tannish Gray Silty Micaceous Fine To Coarse Sand | | 546.3 | | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD
 B-75

BORING NO. B-75

DATE DRILLED 10-10-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|--|--------|
| 40.0 | Very Dense Tannish Gray Silty Micaceous Fine To Coarse Sand | | 546.3 | | |
| | | | 541.3 | N=61 | |
| | | | 536.3 | N=75 | |
| 50.2 | Partially Weathered Rock That Becomes Tannish Brown Silty Slightly Micaceous Fine To Coarse Sand | | 531.3 | N=96/9" | |
| 53.0 | Hard Brownish Gray Fine Sandy Micaceous Silt | | 526.3 | N=76/8" | |
| 57.4 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 521.3 | Carbide Bit Refusal And Top Of Continuous Rock At 57.4 ft | 79 |
| | | NX 100 | 516.3 | 57.4 ft - 60.8 ft: Moderate To Slight Weathering. Very Close To Close Healed And Slightly Leached Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 511.3 | 60.8 ft - 78.6 ft: Slight To Very Slight Weathering. Close Healed And Calcite Filled Joints - Low To Steep Dip. | 100 |
| 78.6 | Coring Terminated at 78.6 ft Groundwater at 11 ft After 24 Hours * | | | 2 Inch. Medium Dip Schistose Zone (76.3 ft) | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

* No Drilling Water Loss

Page 2 of 2

TEST BORING RECORD
 B-75

BORING NO. B-75

DATE DRILLED 10-10-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 620.8 ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|----------------|---------|--------|
| 0 | Stiff Orange Fine To Medium Sandy Clayey Silt | | N=15 | | |
| 5.0 | | | 615.8 | | |
| | Very Stiff and Stiff Green Brown with Orange Seams Fine Sandy Micaceous Silt | | 610.8 | N=17 | |
| | | | 605.8 | | |
| | | | 600.8 | N=12 | |
| 23.0 | | | 595.8 | N=29 | |
| | Very Stiff And Stiff Green Brown With Orange Seams Fine Sandy Micaceous Silt | | 590.8 | N=14 | |
| | | | 585.8 | N=13 | |
| 40.0 | | | 580.8 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.O.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-77

DATE DRILLED 7-24-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 580.8 ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|----------------|------------|--------|
| 40.0 | Very Stiff Brown and Tan Fine Sandy Micaceous Silt | | N=29 | | |
| 45.0 | | | 575.8 | N=17 | |
| | Dense to Very Dense Green Tan to Tan Silty Fine to Medium Sand With Hard Fine To Medium Very Sandy Silt Layers | | 570.8 | N=48 | |
| | | | 565.8 | N=35 | |
| | | | 560.8 | N=61 | |
| 63.0 | | | 555.8 | N=50/2 in. | |
| | Partially Weathered Rock That Becomes Tan Silty Fine to Medium Sand When Sampled | | 550.8 | N=50/4 in. | |
| | | | 545.8 | N=50/4 in. | |
| 80.0 | | | 540.8 | N=65 | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.O.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

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TEST BORING RECORD

BORING NO. B-77

DATE DRILLED 7-24-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------|-------|--|--------|
| 80.0 | Partially Weathered Rock That Becomes Tan Silty Fine to Medium Sand When Sampled | | 540.8 | | |
| | | | 535.8 | N=50/3" | |
| 88.4 | Moderately Hard Yellow Gray Medium Grained Felsic Gneiss | NX | 530.8 | N=50/2" Carbide Bit Refusal At 88.4 ft. Very Close Healed Joints-Some Leached- Low To Steep Dip (88.4 ft - 123.6 ft.) | 42 |
| 90.5 | Hard Pink Gray to Yellow Gray Medium Grained Felsic Gneiss | 80 | 525.8 | 88.4 ft - 90.5 ft: Moderate Weathering. Very Close Rough Joints-Low to Steep Dip | |
| 95.5 | Hard to Very Hard Light Bluish Gray Medium Grained Felsic Gneiss | 97 | 520.8 | 90.5 ft - 95.5 ft: Moderate to Slight Weathering. Close Joints-Low Dip | 73 |
| | | 100 | 515.8 | Very Close Joints-Low to Steep Dip: 92.5 ft - 93.2 ft 95.0 ft - 95.5 ft | 87 |
| | | 94 | 510.8 | Top of Continuous Rock at 94.3 ft 95.5 ft - 109.0 ft: Slight Weathering Close Joints-Low Dip-Oxide Coated Rough Steep Schistose Zone (98.4 ft - 99.6 ft) | 85 |
| | | 100 | 505.8 | Severe Leaching (104.3 ft) Slight to Very Slight Weathering (109.0 ft - 122.6 ft) Close Joints-Low Dip-Epidote and Clay Coated (111.8 ft - 113.0 ft) | 95 |
| 120.0 | | 100 | 500.8 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1888
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 3 of 4
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------|-------|---------|--------|
| 120.0 | Hard to Very Hard Light Bluish Gray Medium Grained Felsic Gneiss | NX 100 | 500.8 | | 100 |
| 123.6 | Coring Terminated at 123.6 ft Groundwater at 29 ft After 24 Hours No Drilling Water Loss | | 495.8 | | |

BORING AND SAMPLING MEETS ASTM D-1888
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

UNDISTURBED SAMPLE WATER 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 NO. B-77
 DATE DRILLED 7-24-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|--|--------|
| 0 | Rotary Drilled With Fishtail Bit To 33.0 ft. | | | | |
| | | | 619.2 | | |
| | | | 614.2 | | |
| | | | 609.2 | | |
| | | | 604.2 | | |
| | | | 599.2 | | |
| | | | 594.2 | | |
| | | | 589.2 | N=25 Very Stiff Orange Brown Fine Sandy Silt | |
| 40.0 | | | 584.2 | | |

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.

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | Rotary Drilled With Fishtail Bit To 58.8 ft. | | | | |
| | | | 579.2 | | |
| | | | 574.2 | | |
| | | | 569.2 | | |
| | | | 564.2 | N=42 Hard Grayish Brown Fine Very Micaceous Sandy Silt | |
| | Rotary Drilled With Fishtail Bit To 70.9 ft. | | 559.2 | | |
| | | | 554.2 | | |
| 70.5 | Partially Weathered Rock | | | N=50/1 in. Partially Weathered Rock That Becomes Very Dense Brownish Tan Silty Fine To Coarse Sand With Rock Fragments And Clayey Seam When Sampled | |
| | Rotary Drilled With Fishtail Bit To 85.3 ft. | | 549.2 | | |
| 80.0 | | | 544.2 | | |

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.

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|---|-----------------------|-------|---|--------|
| | | % & TIME SIZE MIN. | ELEV. | | |
| 80.0 | Partially Weathered Rock Rotary Drilled With Fishtail Bit To 85.3 ft. | | 544.2 | | |
| | | | 539.2 | Carbide Bit Refusal @ 85.3 ft. | |
| 85.3 | Moderately Hard Yellowish Gray Felsic Gneiss | NX 100 | | 85.3 ft - 104.5 ft: Moderately Severe To Moderate Weathering. Very Close Joints - Low To Steep Dip. Very Close Healed And Leached Joints. - Low To Steep Dip. | 73 |
| | | 24 | 534.2 | | 0 |
| | | | 529.2 | Abundant Quartz Veins Up To 1 inch Thick - Low To Steep Dip. | |
| | | 58 | 524.2 | | 12 |
| 104.5 | Hard Light Bluish Gray Felsic Gneiss | | 519.2 | Top Of Continuous Rock @ 104.5 ft. | |
| | | 100 | 514.2 | 104.5 ft - 125.8 ft. Slightly Weathered. Wide Joints - Low Dip Close Healed Joints - Low To Steep Dip - Many Calcite Coated. | 100 |
| | | | 509.2 | Steep Dip Quartz Veins, 1/4-inch Thick: 108.5 ft - 109.5 ft. 110.3 ft - 111.2 ft. | |
| 120.0 | | 99 | 504.2 | | 97 |

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|---|-----------------------|-------|--|--------|
| | | % & TIME SIZE MIN. | ELEV. | | |
| 120.0 | | NX 99 | | Leaching Along Joints (121.6 ft - 122.0 ft.) Fine Grained Slightly Darker Zone, Schistose At Contacts (121.9 - 123.2 ft.) | 97 |
| | | | 499.2 | Slight Vertical Offset Within Mafic Inclusion (124.5 ft.) | |
| 125.8 | Coring Terminated @ 125.8 ft. | | | | |
| | Groundwater At 32.8 ft At Time Of Boring | | | | |
| | Groundwater At 33.0 ft After 24 Hours | | | | |
| | Drilling Water Loss At 95.0 ft. | | | | |

BORING AND SAMPLING MEETS ASTM D-1898
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.O. SAMPLER 1 FT.

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

Page 3 of 4
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1898
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.O. SAMPLER 1 FT.

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

Page 4 of 4
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|---|----------|
| 0 | Rotary Drilled With Fishtail Bit To 32.9 ft | | 622.2 | | |
| | | | 617.2 | | |
| | | | 612.2 | | |
| | | | 607.2 | | |
| | | | 602.2 | | |
| | | | 597.2 | | |
| | | | 592.2 | | |
| | | | 587.2 | N=36 Hard Tan Gray Fine To Medium Sandy Silt | |
| 40.0 | | | 582.2 | | |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-8118
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-77BP

DATE DRILLED 10-1-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|---|----------|
| 40.0 | Rotary Drilled With Fishtail Bit 0 ft - 58.0 ft | | 582.2 | | |
| | | | 577.2 | | |
| | | | 572.2 | | |
| | | | 567.2 | | |
| 59.0 | Partially Weathered Rock Rotary Drilled With Fishtail Bit To 75.0 ft | | 562.2 | N=81/9.5" Partially Weathered Rock That Becomes Hard Tannish Gray Fine To Medium Sandy Silt When Sampled | |
| | | | 557.2 | | |
| | | | 552.2 | | |
| | | | 547.2 | Carbide Bit Refusal @ 75.0 ft | |
| 75.0 | Moderately Hard Very Pale Orange Felsic Gneiss | NX 100 | | 75.0 ft - 80.5 ft: Moderate Weathering. Close Joints - Low To Medium Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip | 72 |
| 80.0 | | 96 | 542.2 | | 89 |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-8118
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-77BP

DATE DRILLED 10-1-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-----------|--|--|--------|
| 80.0 | | | | | | |
| 80.5 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 96 | | | Top Of Continuous Rock @ 80.5 ft | |
| | | | 537.2 | 80.5 ft - 97.1 ft: Very Slight Weathering, Very Close Healed And Filled Joints With Chlorite And Calcite - Low To Steep Dip. | 89 | |
| | | | 532.2 | | | |
| | | | 527.2 | Several Machine Breaks Along Leached Joints (97.1 ft - 107.5 ft) | | |
| 97.1 | Hard Very Pale Orange And Light Bluish Gray Felsic Gneiss | 100 | | | M 97.1 ft - 107.5 ft: Slight To Moderate Weathering, Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | |
| | | | 522.2 | | | |
| | | | 517.2 | | | |
| 107.5 | Coring Terminated @ 107.5 ft No Drilling Water Loss | | | 512.2 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------------|-----------|-------|---------|--|
| 0 | | | | | | |
| | Wash Drilled With Carbide Fishtail 0 ft - 92.0 ft. | | | | | |
| | | 614.2 | | | | |
| | | 609.2 | | | | |
| | | 604.2 | | | | |
| | | 599.2 | | | | |
| | | 594.2 | | | | |
| | | 589.2 | | | | |
| | | 584.2 | | | | |
| | | 579.2 | | | | |
| 40.0 | | | | | | N=29 Tan Brown Fine To Medium Sandy Silt |

BORING AND SAMPLING MEETS ASTM D-1586 *Moderately Hard Light Olive
CORE DRILLING MEETS ASTM D-8113 Gray Felsic Gneiss
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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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-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-77CP

DATE DRILLED 10-5-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------------|-------|--|--------|
| 40.0 | Wash Drilled With Carbide Fishtail 0 ft - 92.0 ft | | | | |
| | | | 574.2 | | |
| | | | 569.2 | | |
| | | | 564.2 | | |
| 59.0 | Partially Weathered Rock | | 559.2 | N=41, 50/4" Partially Weathered Rock That Becomes Brown Gray Very Micaceous Fine Sandy Silt When Sampled | |
| | | | 554.2 | | |
| | | | 549.2 | | |
| | | | 544.2 | | |
| | | | 539.2 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 2 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-------|---|--------|
| 80.0 | Partially Weathered Rock | | | | |
| | | | 534.2 | | |
| | | | 529.2 | | |
| 92.0 | Medium To Hard Medium Bluish Gray Mafic Gneiss | NX 100 | 524.2 | Carbide Bit Refusal at 92.0 ft. 92.0 ft - 100.0 ft: Slight To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Filled Joints With Chlorite And Calcite - Low To Steep Dip. | 66 |
| 100.0 | Very Soft To Medium Grayish Orange Mafic Gneiss And Soil | NX 29 | 519.2 | Very Severe To Moderately Severe Weathering (100.0 ft - 105.5 ft.) ... | 17 |
| 105.0 | Medium To Hard Greenish Gray Mafic Gneiss | NX 73 | 514.2 | 105.5 ft - 111.5 ft.: Slight To Moderate Weathering. Close To Moderately Close Joints - Low To Medium Dip. Very Close Healed Joints - Low To Steep Dip. | 62 |
| | | | 509.2 | Top Of Continuous Rock At 106.5 ft. | |
| 112.0 | Hard Very Light Gray Felsic Gneiss | NX 82 | 504.2 | 111.5 ft - 121.5 ft.: Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 70 |
| 116.2 | Soft To Medium Light Olive Gray Mafic Gneiss | | | Leaching Along Healed Joints (111.6 to 111.7 ft.) Moderately Severely Weathered Zone (116.2 to 119.0 ft.) | |
| 119.0 | Hard To Very Hard Light Bluish Gray * | 100 | 499.2 | S | 94 |
| 120.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Felsic Gneiss
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 3 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 120.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 499.2 | 121.5 ft - 136.2 ft. Very Slight Weathering. Very Close Healed Joints With Traces Of Calcite - Low To Steep Dip. | 94 |
| | | | 494.2 | | |
| | | | 489.2 | | |
| | Coring Terminated at 136.2 ft Slight Water Loss From 92.0 ft Throughout Coring | NX 100 | 484.2 | | 100 |
| 136.2 | | | | | |
| | | | | | |
| | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD
B-77CP

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

LAW ENGINEERING TESTING CO. Page 83 of 298

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. | |
|-----------|--|---------------------------|-------|---------|--------|------|
| 0 | Stiff and Very Stiff Tan Brown Fine to Medium Sandy Silt | | 611.7 | | | |
| | | | 606.7 | | | N=7 |
| | | | 601.7 | | | N=12 |
| | | | 596.7 | | | N=12 |
| | | | 591.7 | | | N=17 |
| | | | 586.7 | | | N=15 |
| | | | 581.7 | | | N=13 |
| | | | 576.7 | | | N=16 |
| | | | 571.7 | | | N=15 |
| 40.0 | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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
B-78

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------|--|----------|
| 40.0 | Stiff and Very Stiff Tan Brown Fine to Medium Sandy Silt | | | | |
| 44.0 | Dense and Firm Tan Silty Fine to Medium Sand | | 566.7 | N=31 | |
| 51.0 | Partially Weathered Rock | | 561.7 | N=20 | |
| 56.6 | Hard Very Light to Light Gray : Felsic Gneiss | NX | 556.7 | N=50/3 in. Carbide Bit Refusal And Top of Continuous Rock at 56.6 ft Moderately Weathered (56.6 ft - 59.5 ft) | |
| | | 100 | 551.7 | Slightly to Very Slightly Weathered (59.5 ft - 66.6 ft) Closely Spaced Low to Medium Dip Joints (56.6 ft - 69.9 ft). 56.6 ft - 74.5 ft. Very Closely Spaced, Low To Steep Dip Healed Joints. | 98 |
| | | 8.0 | 546.7 | Partially Leached Inclusions Of Mafic Gneiss, Up To 2 Inches Diameter. Slightly to Moderately Weathered (66.6 ft - 69.9 ft) | |
| | | 100 | 541.7 | Very Slightly Weathered (69.9 ft - 86.6 ft) | 98 |
| | | 9.0 | 536.7 | Moderately to Moderately Severe Weathering Zones: 59.2 ft - 59.3 ft 67.6 ft - 67.8 ft | |
| 74.5 | Hard Medium Dark Gray Mafic Gneiss | | 531.7 | Healed Joints and Vains of Calcite and Epidote-Low to Medium Dip (74.5 ft - 86.6 ft) | 100 |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-78

DATE DRILLED 7-19-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------|---------|----------|
| 80.0 | Hard Medium Dark Gray Mafic Gneiss | NX | 10.0 | | 100 |
| 86.6 | Coring Terminated at 86.6 ft Groundwater At 28.9 ft At Time Of Boring Groundwater At 28.0 ft After 24 Hours Drilling Water Loss At 63.5 ft. | | 526.7 | | |
| | | | 521.7 | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

Page 3 of 3
TEST BORING RECORD

BORING NO. B-78

DATE DRILLED 7-19-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---------|--------|
| 0 | Hard Red Brown Fine Sandy Clayey Silt | | 606.3 | | |
| | | | 601.3 | N=33 | |
| 7.0 | Very Stiff To Stiff Tan Dark Brown Fine To Medium Sandy Silt | | 596.3 | N=20 | |
| | | | 591.3 | N=25 | |
| 20.0 | Stiff To Very Stiff Tan Dark Brown Fine To Medium Sandy Silt | | 586.3 | N=13 | |
| | | | 681.3 | N=20 | |
| | — Soft Tan Brown Fine To Coarse Sandy Silt Seam Between 29.8 ft - 32.0 ft. | | 576.3 | N=4 | |
| | — Very Silty Fine To Medium Sand Layer At 33.0 ft. | | 571.3 | N=20 | |
| 37.0 | Stiff Tan Dark Brown Fine To Medium Sandy Silt | | 566.3 | | |
| 40.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 40.0 | Stiff Tan Dark Brown Fine To Medium Sandy Silt | | 566.3 | N=14 | |
| 42.0 | Very Stiff To Hard Fine Sandy Very Micaceous Silt | | 561.3 | N=29 | |
| | | | 556.3 | N=51 | |
| 53.3 | Partially Weathered Rock That Becomes Gray Green Fine To Medium Very Sandy Silt | | 551.3 | N=50/5" | |
| | | | 546.3 | N=50/3" | |
| | Fine To Coarse Very Sandy Silt Layer at 63 ft. | | 541.3 | N=50/3" | |
| 66.9 | Medium And Moderately Hard Pink And Yellowish Gray False Gneiss | NX 56 | 536.3 | 66.9 ft to 97.0 ft: Severe And Moderately Severe Weathering | 23 |
| | | 41 | | Very Close Joints - Low To Steep Dip | |
| | | 90 | 531.3 | Very Close Healed And Slightly Leached Joints - Low To Steep Dip | 15 |
| | | 76 | | | 37 |
| | | 63 | 526.3 | | 0 |
| 80.0 | | | | | 22 |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 % ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 % ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 5

TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TYPE | SIZE MIN. | 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 | | 506.3 | 97.0 - 107.0 ft: Slight Weathering. Close Joints - Medium Dip. Close Healed Joints - Partly Leached - Low To Steep Dip. | 63 |
| | | 97 | | 501.3 | | 84 |
| 107.0 | Moderately Hard Pinkish Gray Felsic Gneiss | | | 496.3 | 107.0 - 112.5 ft: Moderate Weathering Very Close Joints - Low To Steep Dip | |
| 110.5 | Moderately Hard To Hard Pinkish Gray Felsic Gneiss | 92 | | | Very Close Spaced Healed Joints - Partly Leached - Low To Steep Dip | 70 |
| 114.0 | Hard To Very Hard Light Blue Gray Felsic Gneiss | | | 491.3 | 110.5 - 114.0 ft: Slight To Moderate Weathering. Close Joints - Low To Steep Dip - Oxide Coated - Rough. | |
| 117.5 | Hard Very Light Gray Felsic Gneiss | 97 | | 486.3 | Very Close Healed Joints - Low To Steep Dip. | 75 |

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 Slight Weathering.
Very Close Healed Joints - Low To Steep Dip.

TEST BORING RECORD

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

LAW ENGINEERING TESTING CO. Page 86 of 298

| DEPTH FT. | DESCRIPTION | CORE NO. & TYPE | SIZE MIN. | 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 | Soft, Very Severely Weathered, Biotite-Rich Zone (133.7 - 134.0 ft) | 57 |
| | | | | 471.3 | | |
| 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 | Slack-sided Zone With Calcite, Epidote And Dendrites (150.5 ft.) | 73 |
| | | 98 | | 451.3 | 148.5-173.0 ft: 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 | | |

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 445.3 | | REMARKS | R.Q.D. |
|--------------|---|------------|-------|---|--------|
| | | SIZE | ELEV. | | |
| 160.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 98 | | | 98 |
| | | | 441.3 | | |
| 166.2 | Hard Green Gray Fine Grained Mafic Gneiss | 99 | | 5 | |
| 167.1 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 436.3 | M 1/4 In. Offset Along Calcite - Filled Joint | 99 |
| | | | 431.3 | | |
| 173.0 | Hard Green Gray Fine Grained Mafic Gneiss | 100 | | 173.0 - 188.2 ft And 190.6 - 191.7 ft: Very Slight Weathering Close To Very Close Calcite Healed Joints - Low To Steep Dip | 100 |
| | | | 426.3 | Calcite-Rich Zones: 181.4 - 182.2 ft. 186.7 - 188.1 ft. | |
| | | | 421.3 | | |
| 188.5 | Very Hard Light Bluish Gray Felsic Gneiss | 100 | | 188.5 - 190.6 ft: Slight Weathering Very Close Healed Joints - Low To Steep Dip | 100 |
| 190.6 | Hard Green Gray Fine Grained Mafic Gneiss | | 416.3 | Very Close Joints At Contact (190.6 ft) | |
| 191.7 | Coring Terminated 191.7 ft. Groundwater @ 35 ft After 24 Hours No Drilling Water Loss | | | | |

| DEPTH FT. | DESCRIPTION | CORE 604.2 | | REMARKS | R.Q.D. |
|--------------|---|------------|-------|---------|--------|
| | | SIZE | ELEV. | | |
| 0 | Very Stiff Orange Tan Fine To Medium Sandy Clayey Silt | | | | |
| | | | 599.2 | N=20 | |
| 5.0 | Loose To Firm Tan Slightly Micaceous Very Silty Fine To Medium Sand | | 594.2 | | |
| | | | 589.2 | N=10 | |
| | | | 584.2 | N=13 | |
| 23.0 | Partially Weathered Rock That Becomes Gray Tan Silty Fine to Coarse Sand When Sampled | | 579.2 | N=50/5" | |
| | | | 574.2 | N=50/4" | |
| | | | 569.2 | N=50/3" | |
| | | | 564.2 | N=50/6" | |
| 40.0 | -Micaceous at 36.2 ft | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8153
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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

Page 5 of 5
TEST BORING RECORD

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

ROCK JOINT:
L = LOW DIP 0°-20°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO. Page 87 of 298

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8153
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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

Page 1 of 2
TEST BORING RECORD

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

ROCK JOINT:
L = LOW DIP 0°-20°
M = MED. DIP 30°-60°
S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-----------|-------|--|--------|
| 40.0 | Partially Weathered Rock That * | | | | | |
| 41.3 | Hard Very Light Gray to Bluish White Felsic Gneiss | NX | 100 | | Carbide Bit Refusal And Top of Continuous Rock 41.3 ft | |
| | | | | 559.2 | Slightly Weathered (41.3 ft - 42.7 ft) | 63 |
| 45.0 | Moderately Hard Medium Dark Gray to Greenish Gray Mafic Gneiss | | | | Moderately Weathered (42.7 ft - 43.5 ft) | |
| | | | | 554.2 | Close Medium Dip Joints (41.3 ft - 45 ft) | |
| | | | | | Slightly Weathered (43.5 ft - 45 ft) | |
| 50.5 | Very Hard Very Light Gray to Bluish White Felsic Gneiss | | 100 | | Zone of Moderate Weathering (47.9 ft - 48.3 ft) | |
| | | | | 549.2 | Moderately Severely Weathered (45 ft - 46.8 ft) | 93 |
| | | | | | Moderately Close Low Dip Joint (45 ft - 50.5 ft) | |
| | | | | | Slightly to Moderately Weathered (46.8 ft - 50.5 ft) | |
| 57.0 | Hard Medium Dark Gray to Greenish Gray Mafic Gneiss | | 100 | | Very Slightly Weathered (50.5 ft - 66.5 ft) | |
| | | | | 544.2 | Very Close Low to Steep Dipping Well Healed Joints (41.3 ft - 66.5 ft) | 96 |
| | | | | | | |
| | | | | 539.2 | | |
| 66.5 | Coring Terminated at 66.5 ft Groundwater At 44 ft After 24 Hours No Drilling Water Loss | | | | Zone of Moderate Weathering (66 ft - 66.5 ft) | |
| | | | | 534.2 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

*Becomes Tan Silty Fine to Medium Sand When Sampled

Page 2 of 2
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-----------|-------|---------|--|
| 0 | Stiff Red Brown Fine To Medium Sandy Clayey Silt | | | | | |
| | | | | 631.2 | | N=10 |
| 6.0 | Stiff Pink And Orange To Purple Fine To Medium Sandy Silt | | | | | |
| | | | | 626.2 | | N=22 Quartz Lenses At 10.0 ft. Magnified N Value |
| | | | | 621.2 | | N=7 |
| | | | | 616.2 | | N=10 Quartz Lenses At 23.0 ft. Magnified N Value |
| | Gray Silty Fine To Coarse Sand Layer At 22.5 ft. | | | 611.2 | | N=19 |
| 27.0 | Firm To Dense Purple And Brown Very Silty Fine To Medium Sand | | | | | |
| | | | | 606.2 | | N=15 |
| | | | | 601.2 | | N=28 |
| 40.0 | | | | 596.2 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 4
TEST BORING RECORD

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

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------------|---------|-------------|
| 40.0 | Firm To Dense Purple And Tan Very Silty Fine To Medium Sand | | | |
| | | N=28 | | |
| | | N=34 | | |
| | | 591.2 | | |
| | Fine Sandy Silt Layer At 48 ft. | | | |
| | | 586.2 | | |
| | | N=31 | | |
| | Fine Sandy Silt Layer At 53 ft. | | | |
| | | 581.2 | | |
| | | N=19 | | |
| 57.0 | Hard Tan Fine To Medium Sandy Silt | | | |
| | | 576.2 | | |
| | | N=41 | | |
| | | N=49 | | |
| | | 571.2 | | |
| 66.0 | Partially Weathered Rock That Becomes Gray Tan Fine To Medium Sandy Silt When Sampled | | | |
| | | N=50/4" | | |
| | | 566.2 | | |
| | | N=50/2" | | |
| | | 561.2 | | |
| | | N=50/3" | | |
| 80.0 | | 556.2 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|--|-------------------------------------|--|-------------|
| 80.0 | Hard Gray Tan Fine To Medium Sandy Silt | | | |
| | | N=35 | | |
| | | 551.2 | | |
| 85.0 | Partially Weathered Rock That Becomes Brown Very Micaceous Silt (Mafic Gneiss) | | | |
| | | 546.2 | | |
| | | N=50/5" | | |
| | | 541.2 | | |
| | | N=50/5" | | |
| 95.0 | Dense Brown Very Micaceous Silty Sand (Mafic Gneiss) | | | |
| | | 536.2 | | |
| | | N=47 | | |
| 101.0 | Hard Medium Bluish Gray Mafic Gneiss | NX | Carbide Bit Refusal And Top Of Continuous Rock 101.0 Ft. | |
| 102.1 | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | 101.0 ft - 148.5 ft.: Slight To Very Slight Weathering. Very Close Healed Joints With Calcite, Quartz and Oxides - Low To Steep Dip. | 100 |
| | | 531.2 | | |
| | | 526.2 | 1/4 Inch Vertical Offset Along Contact (110.3 ft.) | 100 |
| 110.3 | Hard Medium Bluish Gray Mafic Gneiss | 100 | | 100 |
| | | 521.2 | | |
| | | 100 | | 100 |
| 120.0 | | 516.2 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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 3 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 516.2 ELEV. | REMARKS | % R.Q.D. | |
|-----------|--|---------------------------|-------------|--|---|-----|
| 120.0 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | | | 100 | |
| 120.4 | | 100 | | Calcite Rich Zone (122.6 ft to 124.4 ft) | | |
| | | | 511.2 | | Steeply Dipping Brecciated Zone With Calcite And Clay (124.0 ft.) | 100 |
| | | | 506.2 | | ◁ L | |
| | | | 501.2 | | ◁ L | 100 |
| | | | 496.2 | | ◁ L | 100 |
| | Xenolith or Lens Of Biotite Gneiss With Brecciated Contact Zones (141.8 ft.) | | | | 100 | |
| | | | 491.2 | | ◁ L | 100 |
| | Very Thin Schistose Zone Of Biotite And Hornblende (144.6 ft.) | | | | | |
| | | | | | ◁ M | |
| 148.5 | Coring Terminated At 148.5 ft. | | | | | |
| | Groundwater At 56 ft After 24 Hours | | | | | |
| | Drilling Water Loss At 129.6 ft. | | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 591.1 ELEV. | REMARKS | % R.Q.D. |
|-----------|-------------|---------------------------|-------------|---|----------|
| 0 | | | | | |
| | | | 586.1 | | |
| | | | 581.1 | N=14 Orange Micaceous Silt | |
| | | | 576.1 | | |
| | | | 571.1 | | |
| | | | 566.1 | | |
| | | | 561.1 | | |
| | | | 556.1 | N=43 Yellow Tan Silty Fine To Medium Sand | |
| 40.0 | | | 551.1 | N=48 Yellow Tan Silty Fine To Medium Sand | |

BORING AND SAMPLING MEETS ASTM D-1586 * Hard Medium Bluish Gray Mafic Gneiss
 CORE DRILLING MEETS ASTM D-4119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 4 of 4
TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR. ◁ ROCK JOINT;
 1/4" 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°

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-4119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 1 of 4
TEST BORING RECORD

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR. ◁ ROCK JOINT;
 1/4" 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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--------------------------|-------------------------------|-------|---|--------|
| 40.0 | | | 546.1 | | |
| | | | 541.1 | N=40 Orange And Green Micaceous Silt | |
| | | | 536.1 | | |
| | | | 531.1 | | |
| 60.0 | Partially Weathered Rock | | | N=50/3" No Recovery | |
| | | | 526.1 | | |
| | | | 521.1 | N=50/1 1/2" No Recovery | |
| | | | 516.1 | | |
| 80.0 | | | 511.1 | | |

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BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER 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-33P
 DATE DRILLED 9-11-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---|--------|
| 80.0 | Hard Light Bluish Gray And Very Light Gray Felsic Gneiss | NX 64 | | Carbide Bit Refusal @ 80.1 ft. 80.1 ft - 84.0 ft: Slight Weathering. Close Joints - Low To Steep Dip. | |
| 84.0 | Moderately Hard And Hard Greenish Gray Mafic Gneiss | | 506.1 | Very Close Healed Joints - Low To Steep Dip. | 33 |
| | | | 501.1 | 84.0 ft - 88.2 ft: Complete Weathering. Core Loss | |
| | | | 496.1 | 88.2 ft - 96.5 ft: Moderate Weathering. Very Close Healed And Partially Leached Joints - Low To Steep Dip. | 69 |
| 96.5 | Hard Light Bluish Gray Felsic Gneiss | | 491.1 | Biotite And Quartz Crystals 96.5 ft - 101.5 ft: Slight To Moderate Weathering. | |
| | | | 486.1 | Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Top Of Continuous Rock @ 101.5 ft. Large Xenolith Of Mafic Gneiss (98.7 ft.) | 63 |
| | | | 481.1 | 101.5 ft - 128.1 ft: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip | 100 |
| 109.1 | Hard Medium Bluish Gray Mafic Gneiss | | 476.1 | Pegmatitic, Partly Leached And Partly Brecciated At Contact (109.1 ft.) | 100 |
| 111.0 | Hard Light Bluish Gray Felsic Gneiss | | 471.1 | 1/2-inch Quartz Vein - Medium Dip (113.2 ft.) | 100 |
| 120.0 | | | | Coarse Grained Mafic Gneiss (118.6 ft - 119.0 ft.) Quartz Filled Brecciated Zone - Medium Dip (119.8 ft.) | 100 |

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BORING AND SAMPLING MEETS ASTM D-1586 *Partially Weathered Rock
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER 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.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|--|-------------------------|-------|--|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 120.0 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | 471.1 | 1/4-inch Thick, Steeply Dipping, Quartz Filled Zone Along Which Horizontal Joints Are Offset About 1 Inch (124.7 ft.) | 100 |
| | | | 466.1 | | |
| | | | 461.1 | | |
| 128.1 | Coring Terminated At 128.1 ft. | | | | |
| | Groundwater At 19.0 ft At Time Of Boring | | | | |
| | Groundwater At 16.0 ft After 24 Hours | | | | |
| | 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 4 of 4
TEST BORING RECORD

BORING NO. B-83P

DATE DRILLED 9-11-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|--|-------------------------|-------------------------------------|---------|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 0 | Drilled To 33.7 ft. With Carbide Tipped Bit (No Soil Samples To 33.7 ft.) | | 587.8 | | |
| | | | 582.6 | | |
| | | | 577.6 | | |
| | | | 572.6 | | |
| | | | 567.6 | | |
| | | | 562.6 | | |
| | | | 557.6 | | |
| | | | 552.6 | | |
| | | | 547.6 | | |
| 40.0 | | | N=27 Gray Fine Sandy Micaceous Silt | | |

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 4
TEST BORING RECORD

BORING NO. B-83AP

DATE DRILLED 9-18-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--------------------------|---------------------------|-------|--|--------|
| 40.0 | | | 547.6 | | |
| 42.0 | Partially Weathered Rock | | | | |
| | | | 542.6 | N=50/4" Partially Weathered Rock That Becomes Tan To Yellowish Gray Silty Fine To Medium Sand When Sampled | |
| | | | 537.6 | | |
| | | | 532.6 | | |
| | | | 527.6 | | |
| | | | 522.6 | | |
| | | | 517.6 | | |
| | | | 512.6 | N=50/4 1/2" | |
| 80.0 | | | 507.6 | | |

BORING AND SAMPLING MEETS ASTM D-1885
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 80.0 | Partially Weathered Rock | | 507.6 | | |
| | | | 502.6 | | |
| | | | 497.6 | | |
| 92.8 | Moderately Hard Yellowish Gray Felsic Gneiss | | | Carbide Bit Refusal @ 92.8 ft. 92.8 ft. to 102.8 ft.: Moderate Weathering. Very Close Healed And Partly Leached Joints - Low To Steep Dip. Close Joints - Low To Steep Dip. | 68 |
| | | NX 100 | 492.6 | | |
| | | | 487.6 | | |
| 103.8 | Hard Yellowish Gray To Light Bluish Gray Felsic Gneiss | | | Top Of Continuous Rock @ 103.8 ft. 103.8 ft. to 111.8 ft.: Slight Weathering. Very Close Healed Joints - Low To Steep Dip, Some Partly Leached. Steep Quartz Lens (104.8 ft.) | 73 |
| | | NX 100 | 482.6 | | |
| | | | 477.6 | | |
| 111.8 | Very Hard Light Bluish Gray Felsic Gneiss | | | 111.8 ft. to 128.4 ft.: Very Slight Weathering. Very Close Healed And Calcite Filled Joints - Low To Steep Dip. Mafic Gneiss Xenolith (115.8 ft.) | 100 |
| | | NX 100 | 472.6 | | |
| | | | 467.6 | 1 Inch Thick Quartz Filled Schistose Zone (119.6 ft.) | |
| 120.0 | | | 467.6 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1885
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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 3 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------|-------|--|-------------|
| 120.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 467.6 | Very Thin Schistose Zones (120.4 ft And 121 ft.) | 100 |
| | | | 462.6 | Mafic Gneiss Xenoliths (125.5 ft And 126.1 ft.) | |
| 128.4 | Coring Terminated at 128.4 ft. Groundwater At 21.5 (t At Time Of Boring) No Drilling Water Loss | | 457.5 | | |

BORING AND SAMPLING MEETS ASTM D-1808
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|-------------|-------------------------------|-------|---|-------------|
| 0 | | | 656.0 | | |
| | | | 651.0 | | |
| | | | 646.0 | N=48 Pinkish Tan - Fine To Medium Slightly Micaceous Sandy Silt With Few Rock Fragments | |
| | | | 641.0 | | |
| | | | 636.0 | N=53 Red Brown Fine Sandy Micaceous Silt | |
| | | | 631.0 | | |
| | | | 626.0 | | |
| | | | 621.0 | | |
| 40.0 | | | 616.0 | N=53 Gray Brown Fine To Coarse Micaceous Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1808
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--------------------------|---------------------------|-------|-----------------------|--------|
| 40.0 | | | 616.0 | | |
| | | | 611.0 | | |
| | | | 606.0 | | |
| 51.9 | Partially Weathered Rock | | 601.0 | N=50/1/2" No Recovery | |
| | | | 596.0 | | |
| | | | 591.0 | | |
| | | | 586.0 | N=50/3/4" No Recovery | |
| | | | 581.0 | | |
| 80.0 | | | 576.0 | | |

BORING AND SAMPLING MEETS ASTM D-1585
 CORE DRILLING MEETS ASTM D-3115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

Page 2 of 5
TEST BORING RECORD

BORING NO. B-84P
 DATE DRILLED 9-26-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|------------------------------------|---------------------------|-------|---|--------|
| 80.0 | Partially Weathered Rock | | 576.0 | | |
| | | | 571.0 | | |
| | | | 566.0 | N=50/1/2" No Recovery | |
| | | | 561.0 | | |
| | | | 556.0 | | |
| 104.8 | Hard Very Light Gray Felsic Gneiss | NX 100 | 551.0 | Carbide Bit Refusal And Top Of Continuous Rock 104.8 ft. Very Close Healed Joints - Low To Steep Dip - Partly Leached Above 156 ft. (104.8 - 166.7 ft.) | 63 |
| | | | 546.0 | L Moderate To Slight Weathering (104.8 - 153.6 ft.) | |
| | | | 541.0 | L Close To Very Close Joints - Low To Medium Dip (104.8 - 107.7 ft.) | |
| | | 98 | 536.0 | M 1/2 Inch Quartz Veins - Medium Dip: 111.0 ft. 112.1 ft. 113.8 ft. 116.0 ft. | 85 |
| 120.0 | | 98 | 536.0 | M Zone Of Moderately Severe Weathering With Very Close Low Dip Joints (116.8 - 117.5 ft.) | 92 |

BORING AND SAMPLING MEETS ASTM D-1585
 CORE DRILLING MEETS ASTM D-3115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-84P
 DATE DRILLED 9-26-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|-------------------------------------|-------------------------------|-------|---|--------|
| 120.0 | Hard Very Light Gray Felsic Gneiss | NX | | | |
| 98 | | | | | |
| 531.0 | | | | | 92 |
| 526.0 | | | | 1/4 in Quartz Vein With Locally Brecciated Contacts - Steep Dip (126.0 - 127.5 ft.) | |
| 100 | | | | | 50 |
| 521.0 | | | | | |
| 516.0 | | | | | 35 |
| 85 | | | | | |
| 511.0 | | | | | |
| 506.0 | | | | 1-Inch Moderately Severe Weathered Schistose Zone (148 ft) 1/2-Inch Brecciated Zone Core Loss - Probable Soil Zone (149.6-153.0 ft.) | 30 |
| 72 | | | | | |
| 501.0 | | | | 153.6 - 156.0 ft: Soft, Severely Weathered Zone. Very Close Joints - Low Dip | |
| 153.0 | Hard Medium Light Gray Mafic Gneiss | | | | |
| 159.2 | | | | Slight To Very Slight Weathering (156.0 - 166.7 ft.) | |
| 160.0 | Hard Very Light Gray Felsic Gneiss | 100 | 496.0 | | 100 |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|------------------------------------|-------------------------------|-------|--|--------|
| 160.0 | Hard Very Light Gray Felsic Gneiss | NX | | | |
| 100 | | | | 1-Inch Thick Mafic Gneiss Layer (162.0 ft.) 1-Inch Thick Mafic Gneiss Layer With Brecciated Lower Contact (163.0 ft.) Schistose Zone (166.6 - 166.7 ft.) | 100 |
| 491.0 | | | | | |
| 166.7 | | | | Coring Terminated @ 166.7' Groundwater At 49.5 ft At Time Of Boring Groundwater At 47.0 ft After 24 Hours No Drilling Water Loss | |

BORING AND SAMPLING MEETS ASTM D-1899
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

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

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°

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1899
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

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°

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|--------------|--|-------------------------------|-------|---------|-------------|
| 0 | Stiff Reddish-Brown Fine Sandy Very Micaceous Silt | | 642.6 | | |
| | | | 637.6 | N=10 | |
| 7.0 | Stiff Tannish-Brown Fine Sandy Very Micaceous Silt | | 632.6 | N=15 | |
| | | | 627.6 | N=15 | |
| 17.0 | Stiff To Very Stiff Tannish-Gray Fine Sandy Micaceous Silt | | 622.6 | N=14 | |
| | | | 617.6 | N=16 | |
| | | | 612.6 | N=22 | |
| | | | 607.6 | N=20 | |
| 36.0 | Very Dense Tannish-Gray Silty Micaceous Fine To Medium Sand | | 602.6 | N=96 | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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.O.D. ROCK QUALITY DESIGNATION

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

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TEST BORING RECORD

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

LAW ENGINEERING TESTING

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|--------------|--|-------------------------------|-------|---|-------------|
| 40.0 | Very Dense Tannish-Gray Silty Micaceous Fine To Medium Sand | | 602.6 | | |
| | | | 597.6 | N=60 | |
| 46.0 | Hard Tannish-Gray Fine To Medium Sandy Very Micaceous Silt | | 592.6 | N=65 | |
| | | | 587.6 | N=77 | |
| 58.2 | Partially Weathered Rock That Becomes Tannish-Gray Fine To Medium Sandy Very Micaceous Silt When Sampled | | 582.6 | N=50/4" | |
| 62.0 | Partially Weathered Rock That Becomes Tannish-Gray Silty Micaceous Medium To Coarse Sand When Sampled | | 577.6 | N=50/4" | |
| 69.6 | Moderately Hard And Soft To Very Soft Very Light Gray Felsic Gneiss | NX 100 | 572.6 | N=50/1" No Recovery Carbide Bit Refusal At 69.6 ft. | |
| | | 79 | 567.6 | 69.6 ft to 88.1 ft: Moderately Severe To Complete Weathering. Close Joints - Low To Steep Dip Very Close Leached Joints - Low To Steep Dip. Very Fractured Quartz At 81.3 ft to 85.0 ft. | 46 |
| | | | 582.6 | | 42 |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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.O.D. ROCK QUALITY DESIGNATION

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

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|---|----------|
| 80.0 | Moderately Hard And Soft To Very Soft Very Light Gray Felsic Gneiss | NX 79 | 557.6 | | 42 |
| | | 100 | 552.6 | Core Barrel Jammed - Twisted Off In Hole. | 53 |
| 88.1 | Coring Abandoned At 88.1 ft. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.5 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------|--|----------|
| 0 | Wash Drilled With Carbide Fishtail 0 ft - 31.1 ft | | 647.1 | | |
| | | | 642.1 | | |
| | | | 637.1 | | |
| | | | 632.1 | | |
| | | | 627.1 | | |
| 28.9 | Partially Weathered Rock | | 622.1 | N=50/4" Partially Weathered Rock That Becomes Brown Gray Silty Fine To Coarse Sand When Sampled | |
| | | | 617.1 | | |
| 40.0 | | | 612.1 | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.5 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| 40.0 | Partially Weathered Rock | | | | |
| | | | 607.1 | | |
| | | | 602.1 | | |
| 51.1 | Soft To Medium Very Pale Orange Felsic Gneiss | NX 41 | 597.1 | Carbide Bit Refusal at 51.1 ft. 51.1 ft - 58.2 ft: Severe And Moderately Severe Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Scattered Leached Thin Quartz Veins And Stringers. Top Of Continuous Rock At 58.2 ft. | 0 |
| | | NX 86 | | | 56 |
| 58.2 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 592.1 | 58.2 ft - 81.5 ft Slight To Very Slight Weathering. Very Close Healed Joints, Occasionally Slightly Leached - Low To Steep Dip. | 80 |
| | | NX 100 | 587.1 | | 100 |
| | | | 582.1 | 1 Inch, Medium Dip, Chlorite Filled Brecciated Zone (59.0 ft.) | |
| | | NX 100 | | | 100 |
| | | | 577.1 | | |
| | | NX 100 | | | 100 |
| 80.0 | | | 572.1 | | 5 |

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | | 100 |
| 81.5 | | | | Coring Terminated At 81.5 ft. Groundwater At 48 ft After 24 Hours No Drilling Water Loss | |

BORING AND SAMPLING MEETS ASTM D-1886
CORE DRILLING MEETS ASTM D-2113

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 638.8 ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|----------------|--|-------------|
| 0 | Wash Drilled With Carbide Fishtail 0' - 53.1' | | | | |
| | | | 633.8 | | |
| | | | 628.8 | | |
| | | | 623.8 | | |
| | | | 618.8 | | |
| | | | 613.8 | N=26 Tan Gray Fine To Coarse Sandy Slightly Micaceous Silt | |
| | | | 608.8 | | |
| | | | 603.8 | | |
| 37.0 | Partially Weathered Rock | | 598.8 | | |
| 40.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 598.8 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|----------------|---|-------------|
| 40.0 | Partially Weathered Rock | | | N=50/4" Partially Weathered Rock That Becomes Tan Gray Micaceous Fine To Coarse Sandy Silt When Sampled | |
| | | | 593.8 | | |
| | | | 588.8 | | |
| 53.1 | Medium To Soft Very Light Gray Felsic Gneiss | NX 59 | 583.8 | Carbide Bit Refusal At 53.1 ft. 53.1 ft - 76.1 ft. Moderate To Severe Weathering. Very Close Joints - Low To Steep Dip. | 0 |
| | | | 578.8 | Very Close Healed Joints - Low To Steep Dip. | |
| | | | 573.8 | | 0 |
| | | 64 | 568.8 | | |
| | | | 563.8 | Severely Weathered Zone Of Mafic Gneiss (75.2 ft - 76.1 ft.) | |
| 76.1 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 91 | 558.8 | M Top of Continuous Rock At 76.1 ft. | 37 |
| | | | | | |
| 80.0 | | 99 | | | 88 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

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

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-90P

DATE DRILLED 10-2-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|---------|--|
| 0 | Wash Drilled With Carbide Fishtail 0 ft - 57.9 ft | | 619.5 | | |
| | | | 614.5 | | |
| | | | 609.5 | | |
| | | | 604.5 | | |
| | | | 599.5 | | |
| | | | 594.5 | | |
| | | | 589.5 | | N=23 |
| | | | 584.5 | | Brown Tan Micaceous Fine To Medium Sandy Silt |
| 40.0 | | | 579.5 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | | | 579.5 | | |
| | | | 574.5 | N=51 Brown Orange Very Micaceous Sandy Silt | |
| | | | 569.5 | | |
| 54.0 | Partially Weathered Rock | | 564.5 | N=50/3" No Recovery | |
| 57.9 | | | | Carbide Bit Refusal At 57.9 ft. | |
| 59.2 | Soft And Moderately Hard Mafic Gneiss | NX 41 | 559.5 | 57.9 ft - 63.2 ft.: Severe To Moderate Weathering. Very Close To Close Joints - Low To Steep Dip. | 17 |
| 63.2 | Moderately Hard Very Light Gray Felsic Gneiss | | | | |
| 66.0 | Very Hard To Hard Very Light Gray Felsic Gneiss | NX 97 | 554.5 | Very Close Healed And Slightly Leached Joints - Low To Steep Dip (57.9 to 76.3 ft.) | 60 |
| 69.7 | Hard Dark Greenish Gray Mafic Gneiss | | | Slight Weathering (63.2 to 69.7 ft.) | |
| 76.3 | Medium To Soft Greenish Gray Mafic Gneiss | NX 90 | 549.5 | 69.7 to 76.3 ft.: Severe To Moderate Weathering. Very Close Joints - Low To Steep Dip. | 45 |
| 80.0 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 544.5 | | |
| | | | 539.5 | Top Of Continuous Rock @ 76.3 ft. Some Core Losses Occurred At Contacts Between Felsic Gneiss And Mafic Gneiss: 59.2 ft. | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.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-91P

DATE DRILLED 9-27-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|---------------------------|-------|---|--------|
| 80.0 | | | | | |
| | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 534.5 | | 100 |
| | | | 529.5 | | 100 |
| | | | 524.5 | | |
| 98.5 | Hard Medium Light Gray Felsic Gneiss | NX 100 | 519.5 | 76.3 ft - 103.2 ft.: Slight To Very Slight Weathering. Very Close Healed And Filled Joints With Chlorite Quartz And Calcite - Low To Steep Dip. | 100 |
| 103.2 | | | 514.5 | 98.5 to 103.2 ft.: Felsic Gneiss Is Finer Grained And Intermediate In Composition, Some Joints Show Offsets Of Fractions Of Inches. | 100 |
| | Coring Terminated At 103.2 ft | | | | |
| | Groundwater At 34 ft After 24 Hours | | | | |
| | No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

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TEST BORING RECORD

BORING NO. B-91P

DATE DRILLED 9-27-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 580.0 ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|----------------|---------|--------|
| 0 | Augered To Obtain UD And For Seismic Up-Hole Shooting | | | | |
| | | | 615.0 | | |
| | | | 610.0 | | |
| | | | 605.0 | | |
| | | | 600.0 | | |
| | | | 595.0 | | |
| | | | 590.0 | | |
| | | | 585.0 | | |
| 40.0 | | | 580.0 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO Page 103 of 298

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 580.0 ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|----------------|---|--------|
| 40.0 | Augered To Obtain UD And For Seismic Up-Hole Shooting | | | | |
| 43.0 | Partially Weathered Rock | | 575.0 | | |
| 47.0 | Very Soft Rock - No Recovery | NQ D | 570.0 | Hard Drilling @ 47.0 ft. Attempted Recovery With Slow Drilling NQ Wire Line | 0 |
| 53.0 | Soft To Medium Light Olive Gray Mafic Gneiss | NQ 0 | 565.0 | 53.0 ft - 63.0 ft. Severe And Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 0 |
| 60.0 | Moderately Hard Very Light Gray Felsic* | | 560.0 | | |
| 61.0 | Soft To Medium Light Olive Gray Mafic Gneiss | NQ 92 | | Probable Location Of Core Loss (61.0 ft - 63.0 ft.) | |
| 63.0 | Hard Medium Bluish Gray Mafic Gneiss | | 555.0 | 63.0 ft - 99.6 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 50 |
| 68.4 | Soft Light Olive Gray Mafic Gneiss | NQ 88 | | Irregular Quartz - Calcite Vein (67.2 to 67.6 ft.) Very Severely Weathered Zone | 68 |
| 70.0 | Hard Light Bluish Gray Felsic Gneiss | NQ 96 | 550.0 | Probable Location Of Core Loss (68.4 ft - 70.0 ft.) | |
| | | NQ 100 | 545.0 | Top Of Continuous Rock At 70.2 ft. Close Joints, Low To Steep Dip - Moderately Weathered Zone (72.0 To 74.4 ft.) Slight Core Loss At 73.0 ft. | 58 |
| 80.0 | | | 540.0 | Leached Quartz Vein (77.6 to 78.3 ft.) | 96 |

BORING AND SAMPLING MEETS ASTM D-1586 & Gneiss
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 540.0 ELEV. | REMARKS | R.Q.D. | |
|-----------|--|-------------------------|-------------|--|--------|-----|
| 80.0 | Hard Light Bluish Gray Felsic Gneiss | NQ 100 | | Water Loss Throughout Coring Very Thin, Steep Chlorite - Calcite Stringer (81.9 to 82.5 ft.) Cross-Cutting Quartz - Calcite Veins (90.2 to 90.7 ft.) | 100 | |
| | | | 535.0 | | 100 | |
| | | NQ 100 | | | 530.0 | 100 |
| | | NQ 100 | | | 525.0 | 100 |
| 95.6 | Very Hard Light Gray Mafic Gneiss | NQ 100 | | | 100 | |
| 99.6 | Coring Terminated At 99.6 ft. Stabilized Groundwater At 34.0 ft. Drilling Water Loss At 53.0 ft. | | 520.0 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO. Page 104 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 616.5 ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------|-------------|--|--------|
| 0 | Rotary Drilled With Fishtail Bit To 29.9 ft. | | | N=62 Hard Gray - Tan Slightly Micaceous Silty Fine To Medium Sand. | |
| | | | 611.5 | | |
| | | | 606.5 | | |
| | | | 601.5 | | |
| | | | 596.5 | | |
| | | | 591.5 | | |
| | | | 586.5 | | |
| | | | 581.5 | | |
| | | | | | |
| | | | | | |
| 40.0 | | | 576.5 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|----------------|-----------|-------|--|----------|
| 40.0 | Rotary Drilled With Fishtail Bit To 46.6 ft. | | | 576.5 | | |
| 46.6 | Very Hard White Milky Quartz | | | 571.5 | Carbide Bit Refusal @ 46.6 ft. | |
| 47.2 | Medium Yellowish Gray Felsic Gneiss | NX | | 566.5 | 46.6 ft. - 61.9 ft.: Severe And Moderately Severe Weathered Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 0 |
| | | 26 | | 561.5 | | |
| | | | | 556.5 | Top Of Continuous Rock @ 61.9 ft. | |
| 61.9 | Hard Light Bluish Gray Felsic Gneiss | 89 | | 551.5 | 61.9 ft. - 87.1 ft.: Slightly To Very Slightly Weathered. Wide Joints - Low Dip. Very Close Healed Joints - Low To Steep Dip. Scattered Calcite Veinlets | 65 |
| | | 91 | | 546.5 | 1-inch Thick Steeply Dipping Quartz Vein With Inclusions Of Calcite (71.9 ft. - 72.4 ft.) Steeply Dipping Schistose Zone With Calcite (72.6 ft.) | |
| | | | | 541.5 | Inclusions Of Mafic Gneiss (63.5 ft. - 65.5 ft.) | 91 |
| | | | | | 1/4-inch Thick, Steeply Dipping Vein Of Calcite And Quartz (78.5 ft. - 80.0 ft.) | |
| 80.0 | | 96 | | 536.5 | | 94 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|----------------|-----------|-------|---|----------|
| 80.0 | Hard Light Bluish Gray Felsic Gneiss | | | 536.5 | | |
| 81.2 | Hard Medium Bluish Gray Mafic Gneiss | | | | | |
| 82.0 | Hard Very Light Gray Felsic Gneiss | NX | | 531.5 | Schistose Zone With Epidote Enrichment (83.0 ft.) | 94 |
| | | 96 | | | | |
| 87.1 | Coring Terminated at 87.1 ft. Groundwater at 33 ft. After 24 Hours No Drilling Water Loss | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------------|---|--------|
| 0 | | 613.6 | | |
| | Rotary Drilled With Fishtail Bit To 28.4 ft | 608.6 | | |
| | | 603.6 | | |
| | | 598.6 | | |
| | | 593.6 | | |
| | | 588.6 | | |
| | | 583.6 | N=29 Very Firm Grayish Tan Slightly Micaceous Silty Fine To Coarse Sand | |
| | | 578.6 | | |
| 40.0 | | 573.6 | | |

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 CORE 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°

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TEST BORING RECORD

BORING NO. B-93P

DATE DRILLED 10-17-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------------|---|--------|
| 40.0 | Rotary Drilled With Fishtail Bit To 48.4 ft | | | |
| 45.0 | Partially Weathered Rock Rotary Drilled With Fishtail Bit To 50.7 ft | | N=50/2" No Recovery | |
| 50.7 | Very Hard Light Bluish Gray Felsic Gneiss | NQ 100 | Carbide Bit Refusal And Top Of Continuous Rock At 50.7 ft 50.7 ft - 103.1 ft. Slight Weathering To Fresh. Close Healed Joints Rarely Filled With Quartz And Calcite - Low To Steep Dip. Scattered Small Xenoliths Of Mafic Gneiss | 98 |
| | | 100 | | 91 |
| | | 100 | | 100 |
| | | 100 | | 100 |
| | | 100 | Recovered Rock From Previous Run (73.5 ft - 75.8 ft) | 100 |
| 80.0 | | 573.6 | | |

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 CORE RECOVERY WATER TABLE, 1 HR.

N STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-93P

DATE DRILLED 10-17-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE % SIZE MIN. | 533.6 TIME ELEV. | REMARKS | % R.Q.D. | |
|-----------|--|------------------------|------------------------|---------|-------------|-----|
| 80.0 | Very Hard Light Bluish Gray Felsic Gneiss | NQ | 528.6 | | 100 | |
| | | | | | 523.6 | 100 |
| | | | | | 518.6 | |
| | | | | | 513.6 | 100 |
| 103.1 | Coring Terminated At 103.1 ft Groundwater At 39.0 ft After 24 Hours No Drilling Water Loss | | 508.6 | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 3 of 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % SIZE MIN. | 813.7 TIME ELEV. | REMARKS | % R.Q.D. |
|-----------|--------------------------|------------------------|------------------------|--|-------------|
| 0 | Partially Weathered Rock | | 608.7 | N=8 Firm Red Brown And Gray Fine To Coarse Sandy Silt | |
| | | | 603.7 | | |
| | | | 598.7 | N=12 Stiff Red Brown And Gray Fine To Coarse Sandy Silt | |
| | | | 593.7 | | |
| | | | 588.7 | N=15 Stiff Red Brown And Gray Fine To Coarse Sandy Silt | |
| | | | 583.7 | | |
| | | | 578.7 | | |
| 38.0 | | | 573.7 | | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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-93AP
DATE DRILLED 10-17-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---|--------|
| 40.0 | Partially Weathered Rock | | 573.7 | N=50/5" Partially Weathered Rock That Becomes Tan Gray Silty Fine To Coarse Sand When Sampled | |
| | | | 568.7 | | |
| 46.0 | Boring Terminated At 46.0 ft Groundwater At 39.0 ft After 24 Hours 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.
STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 0 | Rotary Drilled With Fishtail Bit To 68.4 ft. | | 659.3 | | |
| | | | 654.3 | | |
| | | | 649.3 | | |
| | | | 644.3 | | |
| | | | 639.3 | | |
| | | | 634.3 | | |
| | | | 629.3 | | |
| | | | 624.3 | | |
| 40.0 | | | 619.3 | N=39 Hard Pinkish Brown Fine To Medium Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------------|--|--------|
| 40.0 | Rotary Drilled With Fishtail Bit To 68.4 ft | 619.3 | | |
| | | 614.3 | | |
| | | 609.3 | | |
| | | 604.3 | | |
| | | 599.3 | | |
| | | 594.3 | | |
| 68.4 | Partially Weathered Rock Rotary Drilled With Fishtail Bit To 88.4 Ft | 589.3 | N=91/10" Very Dense Tannish Gray Slightly Micaceous Silty Fine To Medium Sand | |
| | | 584.3 | | |
| 80.0 | | 579.3 | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------------|--|--------|
| 80.0 | | 579.3 | | |
| | | 574.3 | | |
| | | 569.3 | N=50/2" Hard Tannish Brown Slightly Micaceous Fine To Coarse Very Sandy Silt | |
| 94.7 | Rotary Drilled With Fishtail Bit To 94.7 ft. | 564.3 | Carbide Bit Refusal And Top Of Continuous Rock At 94.7 ft | 83 |
| | Hard To Moderately Hard Very Light Gray Felsic Gneiss | 559.3 | 94.7 ft - 135.0 ft.: Slight To Moderate Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 71 |
| | | 554.3 | Close Joints - Low To Steep Dip (94.7 to 111.5 ft.) Severely Weathered Zone (103.5 - 103.8 ft.) | 77 |
| | | 549.3 | Moderately Close To Close Joints - Low To Steep Dip (111.5 to 135.0 ft.) Moderately Severely Weathered Zone (118.3 to 119.6 ft.) | 77 |
| | | 544.3 | | |
| | | 539.3 | | |
| 118.3 | | | | 59 |
| 119.6 | Medium To Soft Light Olive | | | 74 |
| 120.0 | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 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-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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

Page 3 of 4
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 120.0 | Hard To Moderately Hard Medium Light Gray Mafic Gneiss | NX 95 | | | |
| 124.4 | Medium To Very Soft Light Olive Gray Mafic Gneiss | | 534.3 | Severely Weathered Zone (124.4 ft - 126.6 ft.) | 74 |
| 126.6 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 89 | 529.3 | Schistose At Contact (126.6 ft.) | |
| | | NX 100 | 524.3 | Moderately Severely Weathered Mafic Gneiss Zone (132.5 ft - 133.4 ft.) | 82 |
| | | NX 100 | 519.3 | 135.0 to 158.0 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| 140.0 | Hard Medium Light Gray Mafic Gneiss | | 514.3 | Slickensided Surface - Steep Dip (141.7 ft.) | |
| 142.3 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 509.3 | Filled Joints Commonly Offset By Fractions Of Inches (141.6 to 142.3 ft.) | 97 |
| | | NX 100 | 504.3 | Very Close Calcite Filled Joints: 140.0 to 142.3 ft. 150.0 to 152.3 ft. | |
| 150.0 | Hard Medium Bluish Gray Mafic Gneiss | NX 100 | 503.3 | 2 Inch Schistose Zone (144.2 ft.) | 94 |
| 152.3 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 499.3 | 1/2 Inch Schistose Zone (149.0 ft.) | 100 |
| 158.0 | Coring Terminated At 158.0 ft Groundwater At 58.0 ft At Time Of * | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 18 ft. | | 609.1 | | |
| | | | 604.1 | | |
| | | | 599.1 | | |
| | Rotary Wash Drilled With Carbide Fishtail To 28 ft. | | 594.1 | N=73 Hard Tannish Brown Silt To Medium Sandy Silt | |
| | | | 589.1 | | |
| 28.0 | Partially Weathered Rock | | 584.1 | N=50/1 1/2" No Recovery | |
| | | | 579.1 | | |
| 38.2 | Moderately Hard To Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 72 | 574.1 | Carbide Bit Refusal at 38.2 ft. | 26 |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Boring No Drilling Water Loss
 CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

B-94P

BORING NO. 10-4-73

DATE DRILLED CH 2920

JOB NO. CH 2920

LAW ENGINEERING TESTING CO. Page 110 of 298

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TEST BORING RECORD

B-95P

BORING NO. 10-18-73

DATE DRILLED CH 2920

JOB NO. CH 2920

ROCK JOINT:

L = LOW DIP 0-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | Moderately Hard To Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 72 | | 38.2 ft to 48.6 ft.: Moderate To Slight Weathering. Close Joints - Low To Medium Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 26 |
| | | NX 100 | 569.1 | | 75 |
| 48.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 564.1 | Top Of Continuous Rock At 43.5 ft. 48.6 ft. to 106.9 ft.: Very Slight Weathering. Close To Very Close Healed And Rarely Leached Joints - Low To Steep Dip. Many Machine Breaks Along Healed Joints. | 94 |
| | | NX 99 | 559.1 | | |
| | | NX 100 | 554.1 | Thin Nearly Vertical Quartz - Chlorite Stringer (64.0 to 65.0 ft.) | 99 |
| | | NX 100 | 549.1 | Very Fine Grained Mafic Gneiss (65.3 ft to 66.0 ft.) | |
| | | NX 100 | 544.1 | Near Vertical Quartz Stringers (69.7 ft to 70.7 ft.) | 100 |
| | | NX 100 | 539.1 | | 100 |
| 80.0 | | NX 100 | 534.1 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1996
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---|--------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Very Thin Nearly Vertical Schistose Zone (85.9 ft to 87.5 ft.) Xenolith Of Finer Grained Felsic Gneiss (91.1 ft.) | 100 |
| | | NX 100 | 529.1 | | |
| | | NX 100 | 524.1 | 1/2 inch Vertical Quartz Vein (93.5 ft to 97.0 ft.) | 100 |
| | | NX 100 | 519.1 | | |
| | | NX 100 | 514.1 | 2 inch Vertical Quartz Vein With Schistose Contact Zones (100.0 to 102.6 ft.) | 100 |
| 106.9 | Coring Terminated At 106.9 ft. Groundwater At 34.6 ft At Time Of Boring Groundwater At 33.0 ft After 24 Hours No Drilling Water Loss | | 509.1 | | |

BORING AND SAMPLING MEETS ASTM D-1996
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

R.Q.D. ROCK QUALITY DESIGNATION

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 621.0 ELEV. | REMARKS | N.O.D. |
|--------------|--|-------------------------------|----------------|--|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 62.4 ft. | | | | |
| | | | 616.0 | | |
| | | | 611.0 | | |
| | | | 606.0 | | |
| | | | 601.0 | | |
| | | | 596.0 | | |
| | | | 591.0 | N=25 Very Stiff Orange Tan Fine Sandy Micaceous Silt | |
| | | | 586.0 | | |
| 40.0 | | | 581.0 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 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°
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.O.D. ROCK QUALITY DESIGNATION

Page 1 of 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 581.0 ELEV. | REMARKS | N.O.D. |
|--------------|---|-------------------------------|----------------|--|--------|
| 40.0 | | | | | |
| | | | 576.0 | | |
| | | | 571.0 | | |
| | | | 566.0 | N=32 Dense Orange Brown Very Silty Fine To Medium Sand Spotted With Dark Gray Silt | |
| | | | 561.0 | NW Casing To 60 ft | |
| 62.4 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 95 | 556.0 | Carbide Bit Refusal And Top Of Continuous Rock At 62.4 ft | 90 |
| | | NX 89 | | 62.4 ft - 76.6 ft: Moderate To Slight Weathering. Close Joints - Low To Steep Dip. Close To Very Close Healed and Slightly Leached Joints - Low To Steep Dip. | 62 |
| | | NX 100 | 551.0 | | 70 |
| | | NX 95 | | Malic Xenolith (66.1 ft.) | |
| | | | 546.0 | 76.6 ft - 113.3 ft: Very Slight Weathering. Close And Very Close Healed Joints - Low To Steep Dip. | 65 |
| | | 92 | | 5 Fine Grained Xenoliths Common In Felsic Gneiss | 92 |
| | | 100 100 | 541.0 | | 80 |
| 80.0 | | | | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 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°
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.O.D. ROCK QUALITY DESIGNATION

Page 2 of 3
TEST BORING RECORD

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 541.0 ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|----------------|--|--------|
| 80.0 | Hard To Very Hard Light Gray Light Bluish Gray Felsic Gneiss | NX 100 | 536.0 | 1/4 Inch Steep Dip Brecciated Zone With Chlorite, Actinolite And Calcite Offset At Least 2 Inch Along Cross Cutting - Medium Dip Surface (82.0 ft.) | 100 |
| 90.8 | Moderately Hard To Hard Light Gray To Medium Light Gray Felsic Gneiss | NX 100 | 531.0 | Chlorite Filled Healed Joints To 83.4 ft. Slickensided Surface - Medium Dip (86.2 ft.) Nearly Vertical Chlorite Filled Brecciated Zone With Traces Of Quartz, Calcite And Muscovite (86.2 ft - 87.7 ft.) | 100 |
| 92.8 | Hard Medium Gray Mafic Gneiss | | | Quartz - Epidote Zone (88.7 ft.) | 100 |
| 93.9 | Very Hard Medium Light Gray Felsic Gneiss | | 526.0 | 2 Inch Medium Dip Mafic Gneiss Zone (90.3 ft.) Metagraywacke (92.8 to 93.9 ft.) | |
| 97.3 | Hard Medium Gray Mafic Gneiss | | | | |
| 98.3 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 521.0 | | 100 |
| | | NX 97 | 516.0 | | 97 |
| | | NX 100 | 511.0 | | 100 |
| 113.3 | Coring Terminated At 113.3 ft Groundwater At 30 ft After 24 Hours Drilling Water Loss At 65.0 ft. | | 506.0 | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 604.3 ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|----------------|---|--------|
| 0 | Rotary Drilled With Fishtail Bit To 28.2 ft | | 599.3 | | |
| | | | 594.3 | | |
| | | | 589.3 | | |
| | | | 584.3 | | |
| | | | 579.3 | | |
| 29.0 | Partially Weathered Rock Rotary Drilled With Fishtail Bit To 47.4 ft | | 574.3 | N=77/11" Hard Tannish Gray Fine Sandy Micaceous Silt | |
| | | | 569.3 | | |
| 40.0 | | | 564.3 | | |

BORING AND SAMPLING MEETS ASTM D-1999
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

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

Page 3 of 3
TEST BORING RECORD
B-96P

BORING NO. _____
DATE DRILLED 10-17-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1999
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

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

Page 1 of 3
TEST BORING RECORD

BORING NO. B-97P
DATE DRILLED 10-11-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE 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 | Carbide Bit Refusal And Top Of Continuous Rock At 47.4 ft. Steep Contact With Mafic Gneiss (47.5 ft.) 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 | 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 - 88.6 ft. | 91 |
| | | | 539.3 | Very Slight Weathering. Very Close Healed And Filled Joints With Quartz, Chlorite And Calcite - Low To Steep Dip. | |
| | | | 534.3 | 3/4 Inch Medium Dip Quartz Vein With Schistose Contacts (65.5 ft.) Leached Zone (67.0 to 68.0 ft.) | |
| | | NX 100 | 529.3 | | 88 |
| 80.0 | | 100 | 524.3 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1589
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD
B-97P

BORING NO. _____

DATE DRILLED 10-11-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|--|--------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 519.3 | | 100 |
| 88.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 514.3 | 2 Inch, Medium Dip Quartz Vein (87.8 ft.) | |
| | 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 | | | | |

BORING AND SAMPLING MEETS ASTM D-1589
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD
B-97P

BORING NO. _____

DATE DRILLED 10-11-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------|-------|--|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 27.7 ft | | 682.8 | | |
| | | | 677.8 | | |
| | | | 672.8 | | |
| | | | 667.8 | | |
| | | | 662.8 | | |
| | | | 657.8 | | |
| | Rotary Wash Drilled With Carbide Fishtail To 61.8 ft. | | 652.8 | N#58 Hard Tannish Pink Very Slightly Micaceous Fine Sandy Silt NW Casing To 31.0 ft | |
| | | | 647.8 | | |
| 40.0 | | | 642.8 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------|-------|--|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 61.8 ft. | | 642.8 | | |
| | | | 637.8 | | |
| | | | 632.8 | NW Casing To 51.0 ft | |
| | | | 627.8 | | |
| 55.0 | Partially Weathered Rock | | 622.8 | | |
| | | | 617.8 | N#50/2" No Recovery First Carbide Bit Refusal At 64.0 ft 64.0 ft - 78.1 ft: Severe Weathering. Very Close Joints - Low To Steep Dip. (Badly Broken Rock) | 10 |
| 64.0 | Medium To Very Soft Very Light Gray To Medium Orange Pink Sericitic Quartzite | NX 59 | 612.8 | Very Hard White Quartzite (64.0 ft - 64.7 ft.) | 0 |
| | | NX 14 | 607.8 | | |
| 78.1 | Partially Weathered Rock Or Soil | | 602.8 | | |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

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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-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-98P

DATE DRILLED 10-8-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 562.8 ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------------|---|----------|
| 80.0 | Rotary Wash Drilled With Carbide Fishtail To 103.7 ft | | | | |
| | | | 597.8 | | |
| | | | 592.8 | | |
| | | | 587.8 | | |
| | | | 582.8 | | |
| 103.7 | Very Hard White Quartzite | BQ 26 | 577.8 | Second Carbide Bit Refusal At 103.7 ft | 0 |
| 109.0 | Very Soft To Medium Yellowish Gray Felsic Gneiss | BQ 20 | 572.8 | 103.7 ft - 133.3 ft: Severe To Moderately Severe Weathering. Very Close Joints - Low To Steep Dip (Badly Broken Rock) | 0 |
| | | | 567.8 | Very Close Healed Joints, Slightly Leached Above 154.0 ft. (103.7 to 174.6 ft.) | 0 |
| 120.0 | | BQ 29 | 562.8 | BQ Casing To 120.0 ft | 0 |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-98P
 DATE DRILLED 10-11-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 562.8 ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------------|---|----------|
| 120.0 | Very Soft To Medium Yellowish Gray Felsic Gneiss | BQ 29 | | | 0 |
| 124.0 | Moderately Hard White Sericitic Quartzite | | 557.8 | | |
| 125.0 | Very Soft To Medium Yellowish Gray Felsic Gneiss | BQ 44 | 552.8 | | 0 |
| 133.3 | Medium Light Olive Gray Mafic Gneiss | | 547.8 | 133.3 ft - 146.0 ft: Moderately Severe To Moderate Weathering. Close Joints - Low To Steep Dip. | 15 |
| 135.0 | Moderately Hard To Medium Very Light Gray Felsic Gneiss | BQ 43 | | | |
| | | | 542.8 | | |
| | | BQ 62 | | | |
| 144.8 | Hard To Medium Medium Gray Mafic Gneiss | | 537.8 | Slight To Very Slight Weathering (146.0 ft - 174.6 ft.) | 38 |
| | | BQ 79 | | | |
| 149.0 | Hard To Moderately Hard Very Light Gray Felsic Gneiss | | 532.8 | Moderately Severely Weathered Zone (150.0 to 153.5 ft.) | 63 |
| 150.5 | Soft To Medium Light Olive Gray Mafic Gneiss | | | | |
| 153.5 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 527.8 | Top Of Continuous Rock At 153.5 ft. | 100 |
| 160.0 | | BQ 100 | 522.8 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-98P
 DATE DRILLED 10-11-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE 522.8 | | REMARKS | % R.Q.D. |
|--------------|--|------------|--------------------|--|-------------|
| | | SIZE | TIME MIN. ELEV. | | |
| 160.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | BQ 100 | | 4 M Laumontite Coated | 100 |
| 164.8 | Hard To Very Hard Bluish White Sericitic Quartzite | BQ 100 | 517.8 | Calcite And Quartz - Calcite In Filled Joints And Veins Up To 1 Inch Thick - Occasionally Leached (143.0 to 174.8 ft.) | 100 |
| 174.6 | Coring Terminated At 174.6 ft Groundwater At 44.3 ft After 24 Hours Drilling Water Loss At 118.2 ft. | | 512.8 | 4 M Laumontite Coated | |
| | | | 507.8 | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-1513
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°

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TEST BORING RECORD

BORING NO. B-98P

DATE DRILLED 10-11-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE 601.1 | | REMARKS | % R.Q.D. |
|--------------|---|------------|--------------------|-------------|---|
| | | SIZE | TIME MIN. ELEV. | | |
| 0 | Hard To Very Stiff Red Brown Fine Sandy Clayey Silt | | | | |
| | | | 596.1 | N=35 | |
| | | | 591.1 | N=28 | |
| 11.5 | Stiff Pinkish Brown Fine Sandy Micaceous Silt | | | | |
| | | | 586.1 | N=14 | |
| 16.5 | Stiff Tannish Gray Fine Sandy Silt | | | | |
| | | | 581.1 | N=15 | |
| 21.5 | Very Stiff Blackish Gray Very Micaceous Silt | | | | |
| | | | 576.1 | N=16 | |
| | | | 571.1 | N=26 | |
| 33.0 | Partially Weathered Rock | | | | |
| | | | 566.1 | N=88/9" | Partially Weathered Rock That Becomes Fine To Medium Sandy Silt When Sampled |
| | | | 561.1 | N=50/3-1/2" | Partially Weathered Rock That Becomes Very Dense Tannish Gray Micaceous Silty Fine To Coarse Sand |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-1513
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°

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TEST BORING RECORD

BORING NO. B-99

DATE DRILLED 10-12-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 561.1 ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|----------------|--|--------|
| 40.0 | Partially Weathered Rock | | | N=50/1" No Recovery | |
| | | | 556.1 | | |
| | | | | N=50/1" No Recovery | |
| | | | 551.1 | | |
| | | | | N=50/1-1/2" No Recovery | |
| | | | 546.1 | | |
| 56.7 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 541.1 | Carbide Bit Refusal And Top Of Continuous Rock At 56.7 ft. 56.7 ft - 77.7 ft. Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 536.1 | Slightly Weathered Zone (57.4 ft to 57.8 ft.) | 100 |
| | | NX 100 | 531.1 | | 100 |
| | | | 526.1 | | |
| 77.7 | Coring Terminated At 77.7 ft Groundwater At 25 ft After 24 Hours No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-99
DATE DRILLED 10-15-73
JOB NO. CH 2920

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------------|---------|--------|
| 0 | Very Stiff Brownish Red Fine Sandy Clayey Silt | 681.8 | | |
| | | 676.8 | N=17 | |
| 7.0 | Stiff Pinkish Red Fine Sandy Micaceous Silt With Some Quartz Fragments | 671.8 | N=15 | |
| | Stiff Brownish Pink Fine Sandy Micaceous Silt | 668.8 | N=15 | |
| 16.5 | Very Stiff Pinkish Brown And Tannish Brown Fine Sandy Very Micaceous Silt | 661.8 | N=19 | |
| 21.5 | Very Stiff Tannish Gray And Brownish Yellow Fine To Medium Sandy Silt Becoming Very Stiff Tannish Gray Fine To Medium Sandy Micaceous Silt With Depth | 656.8 | N=20 | |
| | | 651.8 | N=22 | |
| | | 646.8 | N=22 | |
| 40.0 | | 641.8 | N=23 | |

BORING AND SAMPLING MEETS ASTM D-1585
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-100
 DATE DRILLED 10-12-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO. Page 119 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------------|---|--------|
| 40.0 | Very Stiff Tannish Gray Fine To Medium Sandy Micaceous Silt | | | |
| 43.0 | Partially Weathered Rock That Becomes Brownish Gray Silty Fine To Medium Sand When Sampled | 636.8 | N=50/2" | |
| | | 631.8 | N=50/1-1/2" | |
| | | 626.8 | N=50/1" No Recovery Carbide Bit Refusal At 54.4 ft | |
| 54.4 | Very Hard Very Pale Orange Felsic Gneiss | | 54.4 ft - 68.5 ft. Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 50 |
| 56.1 | Hard To Moderately Hard Very Light Gray Felsic Gneiss | | Quartz Rich (54.4 to 56.1 ft.) Large Mafic Xenolith (66.8 ft.) | 31 |
| | | 621.8 | | |
| | | 616.8 | | |
| 68.5 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | Top Of Continuous Rock At 67.8 ft 68.5 ft - 95.6 ft: Slight To Very Slight Weathering. Very Close To Close Healed And Rarely Leached Joints With Chlorite And Calcite - Low To Steep Dip. Scattered Small Mafic Xenoliths And Fine Grained Zones. | 91 |
| | | 611.8 | | |
| | | 606.8 | | |
| 80.0 | | 601.8 | L Close Joints - Low To Medium Dip (68.5 to 71.4 ft.) Medium Dip Quartz And Chlorite Filled Joint Offset At Least 2 Inches (72.2 ft.) | 95 |

BORING AND SAMPLING MEETS ASTM D-1585
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 3
TEST BORING RECORD

BORING NO. B-100
 DATE DRILLED 10-12-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| 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 | 596.8 | M Moderately Severely Weathered Zone (83.7 to 84.0 ft.) | 95 |
| | | | 591.8 | | 100 |
| | | | 586.8 | | |
| 95.6 | Steep Dip Schistose Zone Up To 1 Inch Thick (92.5 to 93.1 ft.) | | | | |
| | Coring Terminated At 95.6 ft | | | | |
| | Groundwater At 39 ft. After 24 Hours | | | | |
| | No Drilling Water Loss | | | | |

| DEPTH FT. | DESCRIPTION | CORE SIZE TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|------------------------------|-------|---|---|
| 0 | Partially Weathered Rock That Becomes Grayish-Tan Fine To Medium Sandy Slightly Micaceous Silt When Sampled | | 554.4 | N=50/4" | |
| | | | 549.4 | | N=50/1" No Recovery |
| 11.0 | Hard Very Light Gray Felsic Gneiss | NX 74 | 544.4 | Carbide Bit Refusal At 11.0 ft. 11.0 ft. to 17.0 ft.: Slight To Moderate Weathering. Moderately Close Joints - Medium To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Leached Joints Near Lower Contact. | 55 |
| 17.0 | | | 539.4 | | 17.0 ft to 27.5 ft.: Moderately Severe To Very Severe Weathering. Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Pegmatitic Zone (27.0 ft.) |
| 26.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | 67 | 534.4 | Top Of Continuous Rock At 27.5 ft. 27.5 ft to 58.9 ft.: Very Slight Weathering. Wide Joints - Low To Steep Dip. Very Close Healed Joints - Quartz And Calcite - Low To Steep Dip. Locally Grades To Felsic Schist. Mafic Gneiss (35.4 ft - 35.9 ft.) 3-inch Quartz Vein, Low Dip (36.7 ft.) | 33 |
| | | | 529.4 | | 100 |
| | | | 524.4 | | 100 |
| 38.0 | Hard Medium Light Gray Mafic Gneiss | 100 | 519.4 | | 100 |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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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-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-101
DATE DRILLED 11-22-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------------|-------|---------|--------|
| 596.3 | | | | | |
| 591.3 | | | | | |
| 586.3 | N=12 Firm Orange - Tan Slightly Micaceous Silty Fine Sand | | | | |
| 581.3 | | | | | |
| 576.3 | N=14 Firm Light Brown Very Micaceous Silty Fine To Coarse Sand With Small Rock Fragments | | | | |
| 571.3 | N=18 Very Stiff Brown-Tan Slightly Micaceous Silty Fine To Medium Sand | | | | |
| 566.3 | | | | | |
| 561.3 | N=21 Very Firm - Dense Light Tan Slightly Micaceous Silty Fine To Medium Sand | | | | |
| 556.3 | NW Casing To 40.0 ft. | | | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|-------|--|--------|
| 40.0 | | | | | |
| 551.3 | N=33 Dense Light Tan Slightly Micaceous Silty Fine To Medium Sand | | | | |
| 546.3 | N=41 Dense Light Tan Slightly Micaceous Silty Fine To Medium Sand | | | | |
| 541.3 | Extend NW Casing to 55.0 ft. N=50/2 1/2" | | | | |
| 536.3 | Partially Weathered Rock That Becomes Very Dense Tan-Gray-Green Micaceous Slightly Silty Fine To Coarse Sand When Sampled | | | N=50/2" Carbide Bit Refusal And Top Of Continuous Rock At 60.2 ft. 60.2 ft to 66.2 ft. Moderate To Slight Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Leached Steep Dip Healed Joints: 61.0 ft. 62.6 ft. | 83 |
| 531.3 | Moderately Hard Light Bluish Gray Felsic Gneiss | NX 94 | | | |
| 526.3 | Hard Medium Light Gray Schistose Mafic Gneiss | NX 90 | | | 77 |
| 521.3 | Hard Light Bluish Gray Felsic Gneiss | NX 100 | | | 100 |
| 76.1 | Coring Terminated At 76.1 ft. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 84 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.

STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 84 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.

STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD
 BORING NO. B-128P
 DATE DRILLED 10-24-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---------|--------|
| 0 | | | 580.8 | | |
| | | | 575.8 | | |
| | N=5 Firm Reddish Tan Fine Sandy Clayey Silt | | 570.8 | | |
| | | | 565.8 | | |
| | N=7 Firm Tannish Brown Slightly Clayey Fine Sandy Silt | | 560.8 | | |
| | | | 555.8 | | |
| | N=13 Stiff Tannish Brown Fine To Medium Sandy Silt | | 550.8 | | |
| | | | 545.8 | | |
| | N=16 Very Stiff Tannish Brown Fine To Medium Sandy Silt | | 540.8 | | |
| 40.0 | | | 540.8 | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|--|--------|
| 40.0 | Firm Tannish Brown Silty Fine To Medium Sand | | 535.8 | N=28 | |
| 46.0 | Hard Tannish Brown Fine To Medium Sandy Silt | | 530.8 | N=36 | |
| 55.0 | Partially Weathered Rock That Becomes Tannish Brown Slightly Micaceous Fine* | | 525.8 | N=50/5 1/2" | |
| 57.0 | Hard Tannish Brown Slightly Micaceous Fine To Medium Sandy Silt | | 520.8 | N=51 | |
| 62.8 | Partially Weathered Rock That Becomes Tannish Brown Silty Slightly Micaceous Fine To Medium Silt When Sampled | | 515.8 | N=50/4 1/2" | |
| 65.5 | Partially Weathered Rock That Becomes Very Dense Tannish Brown Silty Slightly Micaceous Fine To Coarse Sand When Sampled | | 510.8 | N=50/1" | |
| 70.5 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 95 | 505.8 | Carbide Bit Refusal At 70.5 ft. 70.5 ft to 76.8 ft. Slight To Moderate Weathering. Close Joints - Low To Medium Dip. Very Close Healed And Rarely Leached Joints - Low To Steep Dip. | 37 |
| 76.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 95 | 500.8 | Top Of Continuous Rock At 76.8 ft. | 88 |
| 80.0 | | 100 | 500.8 | | 94 |

BORING AND SAMPLING METHODS ASTM D-1586
CORE DRILLING METHODS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-129P
DATE DRILLED 10-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING METHODS ASTM D-1586 * To Medium Sandy Silt When Sampled
CORE DRILLING METHODS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 4
TEST BORING RECORD

BORING NO. B-129P
DATE DRILLED 10-29-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R. Q. D. |
|--------------|---|-----------|------------------------|--|----------|
| | | NO. | TIME SIZE MIN. CLV. | | |
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | 76.8 ft. to 123.2 ft. Very Slight Weathering. Very Close Healed Joints With Calcite And Chlorite - Low To Steep Dip. | 94 |
| | | | 495.8 | Steep Dip Schistose Zone With Calcite, Chlorite And Quartz (78.0 ft to 79.4 ft.) | |
| | | | 490.8 | | |
| 100 | | | | | 100 |
| | | | 485.8 | Steep Dip Quartz Vein (97.0 ft to 97.9 ft.). Epidote In Healed Joints (96.4 to 97.9 ft.) | |
| | | | 480.8 | | |
| 100 | | | | | 100 |
| | | | 475.8 | 1 Inch Low Dip Schistose Zone (105.7 ft.) | |
| | | | 470.8 | Mafic Gneiss With Calcite - Rich Low Schistose Zone At Lower Contact (118.3 ft. to 118.9 ft.) | 100 |
| | | | 455.8 | | |
| 120.0 | | | | 100 | |
| | | | 460.8 | | |

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R. Q. D. |
|--------------|--|-----------|------------------------|---|----------|
| | | NO. | TIME SIZE MIN. CLV. | | |
| 120.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | | 100 |
| 123.2 | | | | | |
| | | | 455.8 | Coring Terminated At 123.2 ft. Groundwater At 9.7 ft. After 24 Hours No Drilling Water Loss | |

BORING AND SAMPLING MEETS ASTM D-1599
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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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-1599
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-129P

DATE DRILLED 10-29-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % R TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|-------------|-------------------------------|--|----------|
| 0 | | 588.2 | | |
| | | 583.2 | N=13 Stiff Tannish-Red Fine Sandy Slightly Clayey Micaceous Silt | |
| | | 578.2 | | |
| | | 573.2 | N=11 Stiff Tan-Brown Fine To Medium Sandy Micaceous Silt | |
| | | 568.2 | | |
| | | 563.2 | N=16 Firm Tan-Brown Very Silty Micaceous Fine To Medium Sand | |
| | | 558.2 | | |
| | | 553.2 | N=49 Dense Tan-Brown Very Silty Micaceous Fine To Medium Sand | |
| 40.0 | | 548.2 | | |

| DEPTH FT. | DESCRIPTION | CORE % R TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------|---|----------|
| 40.0 | | 548.2 | | |
| 44.9 | Partially Weathered Rock | 543.2 | N=50/3" Partially Weathered Rock That Becomes Tan-Gray Very Silty Micaceous Fine To Medium Sand When Sampled | |
| | | 538.2 | | |
| | | 533.2 | N=50/0" No Recovery | |
| | | 528.2 | | |
| | | 523.2 | N=50/0" No Recovery | |
| | | 518.2 | | |
| 71.7 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | 513.2 | Carbide Bit Refusal At 71.7 ft. 71.7 ft to 79.1 ft.: Moderate Weathering. Very Close Healed Joints - Low To Steep Dip. Leaching Along Steep Dip Healed Joints | 94. |
| 79.1 | Coring Terminated At 79.1 ft. * | 508.2 | Irregular Quartz Vein With Muscovite (75.0 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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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-1588 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 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-130P
 DATE DRILLED 11-14-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|--|------|--------------------|--|-------------|
| | | SIZE | TIME MIN. ELEV. | | |
| 0 | | | 615.6 | | |
| | | | 610.6 | N=23 Very Stiff Orange-Tan Very Slightly Micaceous Fine Sandy Silt | |
| | | | 605.6 | | |
| | | | 600.6 | N=17 Very Stiff Gray - Tan With Black-Brown Seams Very Micaceous Slightly Sandy Silt | |
| | | | 595.6 | | |
| | | | 590.6 | N=13 Stiff - Gray - Tan With Black-Brown Seams Very Micaceous Slightly Sandy Silt | |
| | | | 585.6 | | |
| 33.9 | Partially Weathered Rock That Becomes Dark Gray Very Micaceous Slightly* | | 580.6 | N=50/5" | |
| 36.0 | Dense Gray-Tan Very Micaceous Silty Fine To Coarse Sand | | | | |
| 40.0 | | | 575.6 | NW Casing To 40.0 ft. N=44 | |

*Medium Sandy Silt When Sampled

Page 1 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-131P

DATE DRILLED 10-26-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.Q.D. |
|--------------|---|--------|--------------------|--|-------------|
| | | SIZE | TIME MIN. ELEV. | | |
| 40.0 | Dense Gray-Tan Very Micaceous Silty Fine To Coarse Sand | | | | |
| 41.6 | Hard To Soft Yellowish Gray Felsic Gneiss | NX 93 | | Carbide Bit Refusal At 41.6 ft. 41.6 ft to 45.7 ft.: Moderate To Severe Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Rarely Leached Joints - Low To Steep Dip. | 63 |
| 45.7 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 71 | 570.6 | | 0 |
| | | | | 45.7 ft to 55.7 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Medium Dip Quartz Filled Joint (46.3 ft.) | 100 |
| | | NX 100 | 565.6 | | |
| 55.7 | Coring Terminated At 55.7 ft. Groundwater At 21.9 ft At 72 Hours No Drilling Water Loss | | 560.6 | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588

CORE DRILLING MEETS ASTM D-8115

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER

FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-131P

DATE DRILLED 10-26-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|-------------|------------------------------|-------|---|--------|
| 0 | | | 603.9 | | |
| | | | 598.9 | | |
| | | | 593.9 | N=11 Stiff Gray-Tan Micaceous Fine Sandy Silt | |
| | | | 588.9 | | |
| | | | 583.9 | N=14 Firm Tan Micaceous Silty Fine To Coarse Sand | |
| | | | 578.9 | | |
| | | | 573.9 | N=11 Firm Tan Micaceous Silty Fine To Coarse Sand | |
| | | | 568.9 | | |
| | | | 563.9 | N=49 Dense Tan Slightly Silty Fine To Coarse Sand | |
| 40.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|------------------------------|-------|---|--------|
| 40.0 | | | 563.9 | | |
| | | | 558.9 | | |
| | | | 553.9 | N=39 Dense Tan Slightly Silty Fine To Coarse Sand | |
| | | | 548.9 | N=85/9" Partially Weathered Rock That Becomes Tan-Gray Slightly Silty Fine To Coarse Sand With Rock Fragments When Sampled | |
| 49.0 | Moderately Hard To Hard Yellowish Gray To Very Light Gray Felsic Gneiss | NX 100 | 553.9 | NW Casing To 50.0 ft. Carbide Bit Refusal At 49.0 ft. 49.0 ft to 61.0 ft. Moderately Severe To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Occasionally Leached Joints - Low To Steep Dip. | 94 |
| | | | 548.9 | | |
| | | | 543.9 | Thin, Steep Dip Schistose Zone (51.0 ft.) | 79 |
| 61.0 | Coring Terminated At 61.0 ft. Groundwater At 17.0 ft At 24 Hours No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

Page 1 of 2
TEST BORING RECORD
BORING NO. B-132P
DATE DRILLED 10-26-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD
BORING NO. B-132P
DATE DRILLED 10-26-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-----------|-------|---|--------|
| 80.0 | | | | 553.8 | | |
| 80.7 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX | 100 | | Carbide Bit Refusal At 80.7 ft. | |
| 83.5 | Moderately Hard To Medium Yellowish Gray Felsic Gneiss | | | 548.8 | 80.7 to 96.0 ft.: Very Slight Weathering. Very Close Healed Joints With Chlorite And Calcite - Rarely Leached - Low To Steep Dip. | 67 |
| 86.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 100 | 543.8 | Moderately Severe To Severely Weathered Zone - Badly Broken Rock (83.5 to 86.0 ft.) | 96 |
| | | | | 538.8 | Mafic Gneiss With Medium Dip Calcite Rich Schistose Zone At Upper Contact (87.0 to 87.5 ft.) | |
| 96.0 | Coring Terminated At 96.0 ft. Groundwater At 28.0 ft At Time Of Boring Stabilized Groundwater At 30.0 ft. No Drilling Water Loss | | | | | |

BORING AND SAMPLING MEETS ASTM D-1996
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Very Dense Tan-Gray And Tan-Brown Silty Micaceous Fine To Medium And TEST BORING RECORD
 Page 3 of 3
 Silty Micaceous Fine To Coarse Sand

BORING NO. B-135P
 DATE DRILLED 10-30-73
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|-------------|-----------------|-----------|-------|---|--------|
| 0 | | | | 616.6 | | |
| | | | | 611.6 | N=20 Very Stiff Brown Red Micaceous Fine To Medium Sandy Clayey Silt | |
| | | | | 606.6 | | |
| | | | | 601.6 | | |
| | | | | 596.6 | N=28 Very Stiff Red Orange, Tan, Black, White Micaceous Fine To Medium Sandy Silt | |
| | | | | 591.6 | | |
| | | | | 586.6 | | |
| | | | | 581.6 | N=64 Very Dense Tan Brown Micaceous Silty Fine To Coarse Sand | |
| 40.0 | | | | 576.6 | | |

BORING AND SAMPLING MEETS ASTM D-1996
 CORE DRILLING MEETS ASTM D-8119
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD
 Page 1 of 3
 B-136AP

BORING NO. B-136AP
 DATE DRILLED 2-5-74
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------------|---|--------|
| 40.0 | | | | |
| | | 571.6 | | |
| 47.8 | Partially Weathered Rock | 566.6 | N=50/5" No Recovery | |
| | | 561.6 | | |
| | | 556.6 | | |
| 63.4 | Hard Very Light Gray Felsic Gneiss | NX 71 551.6 | N=50/5 1/2" Carbide Bit Refusal At 63.4 ft. 63.4 ft - 68.0 ft. Slight Weathering. Close To Moderately Close Joints - Low To Medium Dip. Very Close Healed Joints - Low To Steep Dip. | 46 |
| 68.0 | Medium To Soft Grayish Orange Felsic Gneiss | 52 546.6 | Numerous Leached Healed Joints (66.9 ft - 68.0 ft.) Steep Dip Quartz Vein With Muscovite (67.4 ft to 67.7 ft.) 68.0 ft to 75.1 ft. | 36 |
| 74.1 | Hard Very Light Gray Felsic Gneiss | 98 541.6 | Severe To Moderately Severe Weathering. Very Close Joints. Numerous Leached Healed Joints (74.1 ft to 75.1 ft) | 27 |
| 78.2 | Hard Dark Greenish Gray Mafic Gneiss | 100 536.6 | 75.1 ft to 85.4 ft. Slight To Very Slight Weathering. | 100 |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.O.D. |
|--------------|--------------------------------------|-------------------------------------|---|--------|
| 80.0 | Hard Dark Greenish Gray Mafic Gneiss | NX 100 531.6 | Very Steep Dip Brecciated And Slickensided Zone With Chlorite, Quartz, Calcite And Zeolite (?) - (77.0 ft - 78.4 ft.) | 100 |
| 85.4 | | | Coring Terminated At 85.4 ft. Groundwater At 32.9 ft At Time Of Boring Stabilized Groundwater At 32.7 ft. Drilling Water Loss At 62 ft. | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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.O.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.

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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-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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.O.D. ROCK QUALITY DESIGNATION

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

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TEST BORING RECORD

BORING NO. B-136AP

DATE DRILLED 2-5-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|-------------|---------------------------|-------|---|--------|
| 0 | | | 619.6 | | |
| | | | 614.6 | N=15 Stiff Red-Brown Fine To Medium Sandy Clayey Micaceous Silt | |
| | | | 609.6 | | |
| | | | 604.6 | N=11 Firm Gray-Brown Very Silty Micaceous Fine To Medium Sand | |
| | | | 599.8 | Complete Drilling Water Loss | |
| | | | 594.6 | N=11 Firm Gray-Brown Very Silty Micaceous Fine To Medium Sand | |
| | | | 589.6 | | |
| | | | 584.6 | N=74 Very Dense Brown-Gray Silty Slightly Micaceous Fine To Coarse Sand With Rock Fragments | |
| 40.0 | | | 579.6 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | | | 579.6 | | |
| | | | 574.6 | NW Casing To 40.0 ft. N=50/5" Partially Weathered Rock That Becomes Tan-Brown Silty Fine To Coarse Sand When Sampled | |
| | | | 569.6 | | |
| | | | 564.6 | N=50/0" No Recovery | |
| 59.1 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 100 | 559.6 | Carbide Bit Refusal At 59.1 ft. 59.1 ft to 67.9 ft.: Moderately Severe To Slight Weathering. Close Joints - Low To Medium Dip. Very Close Healed Joints, Rarely Leached - Low To Steep Dip. | 60 |
| 67.9 | Moderately Hard To Soft Very Light Gray And Pinkish Gray Felsic Gneiss | NX 58 | 554.6 | 1/4 inch Quartz Vein (63.3 ft.) Very Severely Weathered Zone (59.4* 67.9 ft to 75.3 ft.: Moderately Severe To Severe Weathering. Close To Very Close Joints - Low To Steep Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 48 |
| 75.3 | Hard Medium Light Gray Mafic Gneiss | | 544.6 | Top Of Continuous Rock At 75.3 ft. | |
| 76.4 | Hard To Very Hard Very Light Gray Felsic Gneiss | | 539.6 | 75.3 ft to 91.8 ft.: Moderate To Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep | |
| 80.0 | | | 539.6 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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

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TEST BORING RECORD

BORING NO. B-136P
 DATE DRILLED 11-14-73
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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

* 60.3 ft.) ** Dip.
TEST BORING RECORD

BORING NO. B-136P
 DATE DRILLED 11-14-73
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 539.6 ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------------|---|----------|
| 80.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 534.6 | Leached Quartz Filled Joint (72.2 ft - 72.7 ft.) Medium To Steep Dip - Schistose Zones With Chlorite And Epidote: 81.5 ft. 85.3 ft. 91.6 ft. | 99 |
| 87.8 | Hard To Soft Medium Light Gray To Light Olive Gray Mafic Gneiss | | | Completely Weathered Zone (87.8 ft to 88.0 ft.) | |
| 90.5 | Very Hard Light Bluish Gray Felsic Gneiss | NX 99 | 529.6 | Moderately Severely Weathered Zone (89.8 ft to 90.2 ft.) 91.8 ft to 99.5 ft.: Very Slight Weathering. Very Close Heated Joints - Low To Steep Dip. | 99 |
| 99.5 | Coring Terminated At 99.5 ft. Groundwater At 35.0 ft After 24 Hours Drilling Water Loss At 21.5 ft | | | 524.6 | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 627.8 ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------------|--|----------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 65.0 ft. | | | | |
| | | | 622.8 | N=12 Stiff Pinkish-Red Fine To Medium Sandy Micaceous Silt | |
| | | | 617.8 | | |
| | | | 612.8 | | |
| | | | 607.8 | N=20 Very Stiff Brownish Gray Fine Sandy Micaceous Silt | |
| | | | 602.8 | | |
| | | | 597.8 | | |
| | | | 592.8 | | |
| 40.0 | | | 587.8 | N=96/8" Very Dense Gray Brown Silty Slightly Micaceous Fine To Medium Sand | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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°

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-1588
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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°

TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 60.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 534.6 | Leached Quartz Filled Joint (72.2 ft - 72.7 ft.) Medium To Steep Dip - Schistose Zones With Chlorite And Epidote: 81.5 ft. 85.3 ft. 91.6 ft. | 99 |
| 87.8 | Hard To Soft Medium Light Gray To Light Olive Gray Mafic Gneiss | | 529.6 | Completely Weathered Zone (87.8 ft to 88.0 ft.) | |
| 90.5 | Very Hard Light Bluish Gray Felsic Gneiss | NX 99 | 524.6 | Moderately Severely Weathered Zone (89.8 ft to 90.2 ft.) 91.8 ft to 99.5 ft.: Very Slight Weathering. Very Close Heated Joints - Low To Steep Dip. | 99 |
| 99.5 | Coring Terminated At 99.5 ft. Groundwater At 35.0 ft After 24 Hours Drilling Water Loss At 21.5 ft | | 519.6 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 65.0 ft. | | | | |
| | | | 622.8 | N=12 Stiff Pinkish-Red Fine To Medium Sandy Micaceous Silt | |
| | | | 617.8 | | |
| | | | 612.8 | | |
| | | | 607.8 | N=20 Very Stiff Brownish Gray Fine Sandy Micaceous Silt | |
| | | | 602.8 | | |
| | | | 597.8 | | |
| | | | 592.8 | N=96/8" Very Dense Gray Brown Silty Slightly Micaceous Fine To Medium Sand | |
| 40.0 | | | 587.8 | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8153
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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

TEST BORING RECORD

BORING NO. B-136P
DATE DRILLED 11-14-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8153
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 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

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TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | 587.8 ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|----------------|---|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 65.0 ft. | | 582.8 | | |
| | | | 577.8 | N=35 Dense Tan-Gray Silty Micaceous Fine To Medium Sand | |
| | | | 572.8 | | |
| | | | 567.8 | NW Casing To 65.0 ft. | |
| 64.0 | Partially Weathered Rock | | 562.8 | N=50/3" Partially Weathered Rock That Becomes Brown-Gray Silty Fine To Coarse Sand When Sampled | 58 |
| 65.0 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 98 | 557.8 | Carbide Bit Refusal At 65.0 ft. to 73.2 ft.: Slight To Moderate Weathering. Close Joints - Low To Steep Dip. Close To Very Close Healed Joints - Low To Steep Dip. | |
| | | NX 81 | 552.8 | Xenolith Of Mafic Gneiss (70.0 ft.) | 67 |
| 80.0 | | | 547.8 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | 547.8 ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|----------------|---|--------|
| 80.0 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 86 | 542.8 | Top Of Continuous Rock At 83.2 ft. | 22 |
| | | NX 100 | 537.8 | Quartz Vein (85.8 ft to 86.8 ft.) | 71 |
| 87.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 532.8 | 73.2 ft to 109.2 ft.: Slight To Very Slight Weathering. Wide Joints - Medium To Steep Dip. Close Healed Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 527.8 | | |
| | | NX 100 | 522.8 | Thin Stringers Of Zeolite And Calcite (105.5 ft to 109.2 ft.) | 95 |
| 104.4 | Soft To Medium Olive Gray Mafic Gneiss | | | Moderately Severely Weathered Zone (104.4 ft to 105.5 ft.) | |
| 105.5 | Hard Medium Gray Mafic Gneiss | | | | |
| 109.2 | Coring Terminated At 109.2 ft. Groundwater At 40.4 ft At 24 Hours Drilling Water Loss At 86.5 ft. | | 517.8 | | |

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

Page 2 of 3
TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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

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

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

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TEST BORING RECORD

BORING NO. B-137P
DATE DRILLED 11-19-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|-----------|---|---------------------------|-------|--|----------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 36.1 ft. | | 607.8 | | |
| | | | 602.8 | | |
| | | | 597.8 | N=13 Stiff Pink And Tan Fine To Medium Sandy Micaceous Silt With Some Quartz Fragments | |
| | | | 592.8 | | |
| | | | 587.8 | N=24 Very Stiff Grayish-Brown Micaceous Silt | |
| | | | 582.8 | | |
| | | | 577.8 | N=41 Dense Gray Silty Fine To Medium Sand | |
| | | | 572.8 | | |
| 36.1 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 567.8 | Carbide Bit Refusal And Top Of Continuous Rock At 36.1 ft. | 100 |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|-----------|--|---------------------------|-------|---|----------|
| 40.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 567.8 | | |
| | | NX 100 | 562.8 | Complete Drilling Water Loss 36.1 ft to 58.7 ft.: Slight To Very Slight Weathering. Close Healed Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 557.8 | Vertical, Chlorite Filled, Slightly Leached Joint (49.6 ft to 52.7 ft.) | 100 |
| | | | 552.8 | 1/2 Inch Quartz Vein - Medium Dip (44.6 ft.) | |
| | | | | Steep Dip Quartz Veins: 2 inches - 46.3 ft. 1/4 inch - 46.9 to 47.6 ft. 1/8 inch - 52.8 ft. | |
| 58.7 | Coring Terminated At 58.7 ft. Groundwater At 30.8 ft. After 24 Hours Drilling Water Loss At 43.8 ft. | | 547.8 | Quartz - Calcite Stringers And Schistose Zones: 53.1 ft. 53.7 to 54.1 ft. | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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

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TEST BORING RECORD

BORING NO. B-138P
DATE DRILLED 12-5-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 2
TEST BORING RECORD

BORING NO. B-138P
DATE DRILLED 12-5-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|-----------|---|---------------------------|-------|---|----------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 68.8 ft. | | | | |
| | | | 602.6 | | |
| | | N=18 | 597.6 | Very Stiff Tannish-Red Micaceous Silt | |
| | | | 592.6 | | |
| | | N=27 | 587.6 | Very Stiff Orangish-Tan Slightly Fine Sandy Slightly Micaceous Silt | |
| | | | 582.6 | | |
| | | N=36 | 577.6 | Hard Orangish-Tan Silt | |
| | | | 572.6 | | |
| 40.0 | | N=42 | 567.6 | Hard Orangish-Tan Slightly Fine Sandy Slightly Clayey * | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|-----------|---|---------------------------|-------|--|----------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 68.8 ft. | | | | |
| | | | 562.6 | | |
| 49.5 | Partially Weathered Rock | N=75/10" | 557.6 | Partially Weathered Rock That Becomes Tannish - Gray Fine To Medium Sandy Silt When Sampled | |
| | | | 552.6 | | |
| | | N=50/3" | 547.6 | Hard Tannish-Brown Fine Sandy Micaceous Silt | |
| | | | 542.6 | | |
| 68.8 | Medium To Moderately Hard Tannish-Brown And Light Olive Gray Mafic Gneiss | NX 100 | 537.6 | Carbide Bit Refusal At 68.8 ft. N=50/1" No Recovery 68.8 ft. to 73.4 ft.: Moderate Severe Weathering. Close Joints - Epidote And Zeolite Filled-Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Top Of Continuous Rock At 73.4 ft. Stickensided Surfaces: 69.0 ft. - Steep Dip. 70.0 ft. - Medium Dip. 70.4 ft. - Low Dip. 71.2 ft. - Medium Dip. | |
| 73.4 | Hard Medium Light Gray Mafic Gneiss | | 532.6 | | 56 |
| | | | 527.6 | | |
| 80.0 | | 95 | | | 90 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

*Silt Page 1 of 3
TEST BORING RECORD
B-139P
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.
STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 3
TEST BORING RECORD
B-139P
BORING NO. B-139P
DATE DRILLED 12-4-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. | |
|--------------|---|---------------------------------|-------|---|--------|--|
| 80.0 | Hard Medium Light Gray Mafic Gneiss | NX 95 | | 73.4 ft. to 95.1 ft., Slight To Very Slight Weathering. Close Healed Joints With Zeolite And Calcite - Low To Steep Dip. Steep Dip 1 Inch Thick Quartz Vein With Brecciated Contacts Containing Quartz, Calcite And Chlorite (86.0 ft.) Steeply Dipping Quartz Filled Brecciated Zone (87.7 ft.) | 90 | |
| | | | 522.6 | | | |
| | | | 517.6 | | | |
| | | NX 100 | | | 100 | |
| | | | 512.6 | | | |
| 95.1 | Coring Terminated At 95.1 ft. Stabilized Groundwater At 37.0 ft. No Drilling Water Loss | | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 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 | | | | |
| 40.0 | Partially Weathered Rock | | | | |
| | | | 554.0 | N=50/1 1/2" Partially Weathered Rock That Becomes Tan Silty Fine To Medium Sand When Sampled | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-139P

DATE DRILLED 12-4-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 1 of 2

TEST BORING RECORD

BORING NO. B-140P

DATE DRILLED 12-10-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|--|----------|
| 80.0 | Hard Medium Light Gray Mafic Gneiss | NX 95 | 527.6 | 73.4 ft. to 95.1 ft.: Slight To Very Slight Weathering. Close Healed Joints With Zeolite And Calcite - Low To Steep Dip. Steep Dip 1 Inch Thick Quartz Vein With Brecciated Contacts Containing Quartz, Calcite And Chlorite (85.0 ft.) Steeply Dipping Quartz Filled Brecciated Zone (87.7 ft.) | 90 |
| | | | 522.6 | | |
| | | | 517.6 | | |
| | | NX 100 | 512.6 | | 100 |
| 95.1 | Coring Terminated At 95.1 ft. Stabilized Groundwater At 37.0 ft. No Drilling Water Loss | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 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 | | 554.0 | Partially Weathered Rock That Becomes Tan Silty Fine To Medium Sand When Sampled | |
| 40.0 | | | | N=50/1 1/2" | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-139P

DATE DRILLED 12-4-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-140P

DATE DRILLED 12-10-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|--|----------|
| 40.0 | Partially Weathered Rock | | 554.0 | | |
| 42.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 549.0 | Carbide Bit Refusal And Top Of Continuous Rock At 42.6 ft. Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 544.0 | Numerous Schistose Zones (42.6 ft to 52.8 ft.) | |
| | | NX 100 | 539.0 | 2 Inch Medium To Steep Dipping Partly Leached Schistose Zone With Quartz Calcite And Chlorite (47.8 ft) | 100 |
| | | NX 100 | 534.0 | | 100 |
| | | | 529.0 | Steep Dip Quartz - Calcite Vein (65.8 ft to 66.4 ft.) | |
| 66.6 | Coring Terminated At 66.6 ft. | | 524.0 | | |
| | Groundwater At 17 ft After 24 Hours | | | | |
| | No Drilling Water Loss | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|--|----------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 48.0 ft. | | 597.8 | | |
| | | | 592.8 | | |
| | | | 587.8 | N=15 Stiff Pink And Tan Fine To Medium Sandy Slightly Micaceous Silt | |
| | | | 582.8 | | |
| | | | 577.8 | N=29 Very Stiff Tannish-Gray Fine To Medium Very Sandy Silt | |
| | | | 572.8 | | |
| | | | 567.8 | N=53 Hard Yellowish-Brown Slightly Fine Sandy Very Micaceous Silt | |
| | | | 562.8 | | |
| 40.0 | | | 557.8 | Hard Yellowish-Brown Slightly Fine Sandy Very Micaceous Silt | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD
 BORING NO. B-140P
 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-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 2
TEST BORING RECORD
 BORING NO. B-141P
 DATE DRILLED 12-7-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|---|---|---|--------|
| 40.0 | Partially Weathered Rock | | | 554.0 | | |
| 42.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | / | 549.0 | Carbide Bit Refusal And Top Of Continuous Rock At 42.6 ft. 42.6 ft to 66.6 ft.: Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | | | 544.0 | | |
| | | NX 100 | 539.0 | 2 Inch Medium To Steep Dipping Partly Leached Schistose Zone With Quartz Calcite And Chlorite (47.8 ft) | 100 | |
| | | | 534.0 | | | |
| | | 529.0 | Steep Dip Quartz - Calcite Vein (65.8 ft to 66.4 ft.) | | | |
| 66.6 | Coring Terminated At 66.6 ft. | | | 524.0 | | |
| | Groundwater At 17 ft After 24 Hours | | | | | |
| | No Drilling Water Loss | | | | | |

BORING AND SAMPLING MEETS ASTM D-1585
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD
 BORING NO. B-140P
 DATE DRILLED 12-10-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-----------|-------|--|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 48.0 ft. | | | 597.8 | | |
| | | | | 592.8 | | |
| | | | | 587.8 | N=15 Stiff Pink And Tan Fine To Medium Sandy Slightly Micaceous Silt | |
| | | | | 582.8 | | |
| | | | | 577.8 | N=29 Very Stiff Tannish-Gray Fine To Medium Very Sandy Silt | |
| | | | | 572.8 | | |
| | | | | 567.8 | N=53 Hard Yellowish-Brown Slightly Fine Sandy Very Micaceous Silt | |
| | | | | 562.8 | | |
| 40.0 | | | | 557.8 | N=39 Hard Yellowish-Brown Slightly Fine Sandy Very Micaceous Silt | |

BORING AND SAMPLING MEETS ASTM D-1585
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 2
TEST BORING RECORD
 BORING NO. B-141P
 DATE DRILLED 12-7-73
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|------|------|-------|--|-------------|
| | | % | TIME | | | |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 48.0 ft. | | | 552.8 | | |
| 48.0 | Hard To Very Hard Medium Light Gray Mafic Gneiss | NX | 80 | 547.8 | Carbide Bit Refusal At 48.0 ft. | 58 |
| 54.6 | Hard Medium Light Gray Mafic Gneiss | NX | 82 | 542.8 | Top Of Continuous Rock At 54.6 ft. 48.0 ft to 54.6 ft. Moderate To Slight Weathering. Close Joints, Many Iron Stained - Steep Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip | 49 |
| 65.1 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX | 100 | 537.8 | Soft, Severely Weathered Zone (51.5 to 52.5 ft.) 54.6 ft to 75.3 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Quartz - Calcite Veins And Joint Fillings Throughout. | 100 |
| 75.3 | Coring Terminated At 75.3 ft. No Drilling Water Loss | NX | 100 | 527.8 | Slickensided Surface - Medium Dip (60.2 ft.) Irregular Quartz - Calcite - Chlorite Zones (60.2 ft - 60.6 ft.) Schistose Zone With Calcite, Chlorite And Epidote At Contact (65.1 ft.) 3-Inch Medium Dip Schistose Zone (68.0 ft.) Mafic Gneiss (68.2 ft to 68.8 ft.) Close, Medium Dip, Very Thin Schistose Zones (68.8 ft to 75.3 ft.) | 100 |
| | | | | 522.8 | | |

| DEPTH FT. | DESCRIPTION | CORE | | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|------|------|-------|--|-------------|
| | | % | TIME | | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 56.8 ft. | | | 604.4 | | |
| | | | | 599.4 | N=15 Stiff Pink And Tan Fine To Medium Sandy Silt | |
| | | | | 594.4 | | |
| | | | | 589.4 | N=20 Very Stiff Pink And Tan Fine To Medium Sandy Silt | |
| | | | | 584.4 | | |
| | | | | 579.4 | N=24 Very Stiff Pinkish-Gray Fine To Medium Sandy Silt | |
| | | | | 574.4 | | |
| 40.0 | | | | 569.4 | N=31 Hard Tannish-Gray Fine To Medium Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1898
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 2

TEST BORING RECORD

BORING NO. B-141P
DATE DRILLED 12-7-73
JOB NO. CH 2920

ROCK JOINT:
LOW DIP 0°-30°
MED. DIP 30°-60°
STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1898
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

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

Page 1 of 2

TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

ROCK JOINT:
LOW DIP 0°-30°
MED. DIP 30°-60°
STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-----------|------|-------|--|-------------|
| | | SIZE | TIME | | | |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 48.0 ft. | | | 552.8 | | |
| 48.0 | Hard To Very Hard Medium Light Gray Mafic Gneiss | NX 80 | | 547.8 | Carbide Bit Refusal At 48.0 ft. | 58 |
| 54.6 | Hard Medium Light Gray Mafic Gneiss | NX 82 | | 542.8 | Top Of Continuous Rock At 54.6 ft. | 49 |
| | | NX 100 | | 537.8 | 48.0 ft to 54.6 ft. Moderate To Slight Weathering. Close Joints, Many Iron Stained - Steep Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip | 100 |
| 65.1 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | 532.8 | Soft, Severely Weathered Zone (51.5 to 52.5 ft.) 54.6 ft to 75.3 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Quartz - Calcite Veins And Joint Fillings Throughout. | 100 |
| 75.3 | Coring Terminated At 75.3 ft. No Drilling Water Loss | | | 522.8 | Slickensided Surface - Medium Dip (60.2 ft.) Irregular Quartz - Calcite - Chlorite Zones (60.2 ft - 60.6 ft.) Schistose Zone With Calcite, Chlorite And Epidote At Contact (65.1 ft.) 3-Inch Medium Dip Schistose Zone (68.0 ft.) Mafic Gneiss (68.2 ft to 68.8 ft.) Close, Medium Dip, Very Thin Schistose Zones (68.8 ft to 75.3 ft.) | |

| DEPTH FT. | DESCRIPTION | CORE | | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|------|------|-------|--|-------------|
| | | SIZE | TIME | | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 56.8 ft. | | | 604.4 | | |
| | | | | 599.4 | N=15 Silt Pink And Tan Fine To Medium Sandy Silt | |
| | | | | 594.4 | | |
| | | | | 589.4 | N=20 Very Stiff Pink And Tan Fine To Medium Sandy Silt | |
| | | | | 584.4 | | |
| | | | | 579.4 | N=24 Very Stiff Pinkish-Gray Fine To Medium Sandy Silt | |
| | | | | 574.4 | | |
| 40.0 | | | | 569.4 | N=31 Hard Tannish-Gray Fine To Medium Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-1113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR. ROCK JOINTS
ROCK CORE RECOVERY WATER TABLE, 1 HR. L = LOW DIP 0-30°
N = STANDARD PENETRATION LOSS OF DRILLING WATER M = MED. DIP 30-90°
N.Q.D. ROCK QUALITY DESIGNATION S = STEEP DIP 90-99°

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TEST BORING RECORD

BORING NO. B-141P
DATE DRILLED 12-7-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-1113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR. ROCK JOINTS
ROCK CORE RECOVERY WATER TABLE, 1 HR. L = LOW DIP 0-30°
N = STANDARD PENETRATION LOSS OF DRILLING WATER M = MED. DIP 30-90°
N.Q.D. ROCK QUALITY DESIGNATION S = STEEP DIP 90-99°

Page 1 of 2

TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|-------|--|-------------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 56.8 ft. | | 569.4 | | |
| | | | 564.4 | | |
| 49.4 | Partially Weathered Rock | | 559.4 | N=80/9" Partially Weathered Rock That Becomes Tannish Gray To Light Gray Very Silty Fine To Medium Sand When Sampled | |
| | | | 554.4 | | |
| 56.8 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock At 56.8 ft. 56.8 ft to 79.0 ft.: Slight Weathering. Very Close To Close Healed And Rarely Leached Joints - Low To Steep Dip. | 100 |
| | | NX 95 | 549.4 | | 95 |
| | | | 544.4 | Moderately Hard, Moderately Weathered Zone (58.3 ft to 59.3 ft.) | |
| | | | 539.4 | Moderately Hard, Moderately Weathered Zone (63.8 ft - 64.5 ft.) Schistose (58.0 ft to 59.2 ft.) Close Quartz And Calcite Filled Joints - Steep Dip (75.6 ft - 79.0 ft.) | 100 |
| | | NX 100 | 534.4 | | 100 |
| 79.0 | Coring Terminated At 79.0 ft. * | NX 100 | 529.4 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586 - Stabilized Groundwater At 41.8 ft.
CORE DRILLING MEETS ASTM D-5113 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.

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°

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TEST BORING RECORD

BORING NO. B-142P

DATE DRILLED 12-4-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|-------|--|-------------|
| 0 | Rotary Wash-Drilled With 6" Carbide Fishtail To 41.6 ft. | | 604.6 | | |
| | | | 599.6 | N=15 Stiff Tannish Orange Slightly Clayey Silt | |
| | | | 594.6 | | |
| | | | 589.6 | N=8 Firm Yellowish-Tan Micaceous Silt | |
| | | | 584.6 | | |
| | | | 579.6 | N=23 Very Stiff Yellowish-Tan Micaceous Silt | |
| | | | 574.6 | | |
| | | | 569.6 | N=69 Very Dense Gray-Brown Silty Fine To Coarse Sand | |
| 40.0 | | | 564.6 | | |

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-5113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-143P

DATE DRILLED 12-3-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|---------------------------------|-------|--|-------------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 56.8 ft. | | 569.4 | | |
| | | | 564.4 | | |
| 49.4 | Partially Weathered Rock | | 559.4 | N=80/9" Partially Weathered Rock That Becomes Tannish Gray To Light Gray Very Silty Fines To Medium Sand When Sampled | |
| | | | 554.4 | | |
| 56.8 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock At 56.8 ft. | 100 |
| | | | 549.4 | 56.8 ft to 79.0 ft.: Slight Weathering. Very Close To Close Healed And Rarely Leached Joints - Low To Steep Dip. | |
| | | NX 95 | | | 95 |
| | | | 544.4 | Moderately Hard, Moderately Weathered Zone (58.3 ft to 59.3 ft.) | |
| | | | 539.4 | Moderately Hard, Moderately Weathered Zone (63.8 ft - 64.5 ft.) | |
| | | NX 100 | | Schistose (58.0 ft to 59.2 ft.) Close Quartz And Calcite Filled Joints - Steep Dip (75.6 ft - 79.0 ft.) | 100 |
| | | | 534.4 | | |
| | | NX 100 | | | 100 |
| 79.0 | Coring Terminated At 79.0 ft. * | | 529.4 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|---------------------------------|-------|---|-------------|
| 0 | Rotary Wash-Drilled With 6" Carbide Fishtail To 41.6 ft. | | 604.6 | | |
| | | | 599.6 | N=15 Stiff Tannish Orange Slightly Clayey Silt | |
| | | | 594.6 | | |
| | | | 589.6 | N=8 Firm Yellowish-Tan Micaceous Silt | |
| | | | 584.6 | | |
| | | | 579.6 | N=23 Very Stiff Yellowish-Tan Micaceous Silt | |
| | | | 574.6 | | |
| | | | 569.6 | N=69 Very Dense Gray-Brown Silty Fines To Coarse Sand | |
| 40.0 | | | 564.6 | | |

BORING AND SAMPLING MEETS ASTM D-1586 - Stabilized Groundwater At 41.8 ft.
CORE DRILLING MEETS ASTM D-8113 - 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.

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TEST BORING RECORD

BORING NO. B-142P
DATE DRILLED 12-4-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

BORING NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. | |
|--------------|--|-------------------------------------|---|---|-----|
| 40.0 | Rotary Wash-Drilled With 6" Carbide Fishtail To 41.6 ft. | | | | |
| 41.6 | Hard And Moderately Hard Light Gray Felsic Gneiss | NX 97 | 6" Carbide Bit Refusal At 41.6 ft. | 71 | |
| | | NX 57 | 41.6 ft. to 63.5 ft.: Slight To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 0 | |
| | | NX 100 | 554.6 | Severely Weathered Zone (45.2 ft - 46.1 ft.) - Core Loss | 60 |
| | | NX 89 | 549.6 | Thin, Vertical Schistose Zone With Quartz (47.0 ft - 48.7 ft.) Leached Quartz Vein (49.7 ft to 50.0 ft.) Top Of Continuous Rock At 48.5 ft. | 56 |
| | | | 544.6 | | |
| 63.5 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 88 | Complete Drilling Water Loss 63.5 ft. to 84.8 ft.: Slight To Very Slight Weathering. Very Close To Close Healed Joints - Low To Steep Dip - Rarely Leached. | 77 | |
| | | | 539.6 | | |
| | | | 534.6 | | |
| | | NX 100 | 529.6 | | 100 |
| | | | | | |
| | | NX 99 | Very Thin Schistose Zones: 79.8 ft. to 80.3 ft. | 99 | |
| 80.0 | | | 524.6 | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------------|--|--------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 99 | 1/2 Inch Quartz Vein - Medium Dip (82.7 ft.) | 99 |
| | | | 519.6 | |
| 84.8 | Coring Terminated At 84.8 ft. | | | |
| | Groundwater At 20.3 ft At 24 Hours | | | |
| | Drilling Water Loss At 62.4 ft. | | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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 NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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 NO. B-143P
DATE DRILLED 12-3-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 531.0 ELEV. | REMARKS | N R.O.D. | |
|--------------|---|-------------------------------|----------------|--|--|----|
| 80.0 | Moderately Hard To Hard Light Bluish Gray And Light Gray Felsic Gneiss | NX 100 | | 73.0 ft to 101.5 ft. Moderate Weathering. Moderately Close Joints - Low To Steep Dip. Close And Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 86 | |
| | | | 526.0 | | | |
| | | | NX 100 | | W" Quartz Vein - Medium Dip (74.7 ft) Scattered Xenoliths Of Mafic Gneiss (73.0 ft - 86.5 ft.) Schistose Zone (85.6 ft.) | 95 |
| | | | 521.0 | | Leached Quartz And Epidote Coated Schistose Zone - Steeply Dipping (88.6 ft - 89.6 ft.) Schistose Zone (93.2 ft - 95.0 ft.) | |
| | | | NX 100 | 516.0 | Severely Leached Filled Joints: 92.1 ft. 93.5 ft to 94.8 ft. 95.5 ft. | 97 |
| | Hard Medium Gray Mafic Gneiss | NX 98 | 511.0 | 101.5 ft to 118.2 ft. Slight To Very Slight Weathering. Close To Very Close Healed Joints - Low To Steep Dip. | 98 | |
| 103.3 | | | 506.0 | Numerous Calcite Rich Zones And Stringers (103.3 ft - 109.3 ft.) Steep Brecciated Contacts Between Mafic And Felsic Gneiss (103.3 And 109.3 ft.) | | |
| 109.3 | | | 501.0 | Pegmatitic Zone With Quartz, Calcite, Muscovite And Pyrite (106.9 ft to 107.3 ft.) Interfingering Mafic Gneiss (110.0 ft to 111.0 ft.) | | |
| | Very Hard Light Bluish Gray Felsic Gneiss | NX 98 | 496.0 | Scattered Schistose Zones (111.0 ft. to 118.2 ft.) 1/2 Inch Quartz Vein (117.9 ft.) | 98 | |
| 118.2 | | | | | | |
| | Coring Terminated At 118.2 ft. Groundwater At 19.9 ft. At 24 Hours * | | | | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 615.8 ELEV. | REMARKS | N R.O.D. |
|--------------|-------------|-------------------------------|----------------|--|-------------|
| 0 | | | | | |
| | | | 610.8 | N=20 Very Stiff Brown Red Micaceous Fine To Medium Sandy Clayey Silt | |
| | | | 605.8 | | |
| | | | 600.8 | | |
| | | | 595.8 | N=20 Very Stiff Pink Orange Micaceous Sandy Silt | |
| | | | 590.8 | | |
| | | | 585.8 | | |
| | | | 580.8 | N=23 Firm Tan Gray Micaceous Very Silty Fine To Medium Sand | |
| 40.0 | | | 575.0 | | |

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

CORE DRILLING MEETS ASTM D-6118

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

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-164P

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-6118

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

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-144AP

DATE DRILLED 2-11-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME PER MIN. | 575.0 ELEV. | REMARKS | NO. |
|-----------|-------------------------------|--------------------------|-------------|---|-----|
| 40.0 | | | | | |
| 47.3 | Partially Weathered Rock | | 570.8 | N=50/5" Partially Weathered Rock That Becomes Tan Gray Micaceous Silty Fine To Coarse Sand When Sampled | |
| | | | 565.8 | | |
| | | | 560.8 | | |
| | | | 555.8 | | |
| 60.9 | Hard Light Gray Felsic Gneiss | NX | | Carbide Bit Refusal At 60.9 ft. Very Slight Weathering (60.9 ft to 62.3 ft.) | |
| 62.3 | Moderately Hard Felsic Gneiss | 54 | 550.8 | Very Close And Close Healed Joints - Low To Steep Dip (60.9 to 98.0 ft.) | 27 |
| 66.1 | Hard Light Gray Mafic Gneiss | 64 | 545.8 | 62.3 ft to 66.1 ft: Moderate And Moderately Severe Weathering. Very Close To Close Joints - Low To Steep Dip. | 49 |
| | | | 540.8 | 66.1 ft to 69.0 ft.: Very Slight To Moderate Weathering. Close Joints - Low To Medium Dip. | |
| | | 84 | | Moderately Severe To Severe Weathering (69.0 ft to 73.1 ft.) | |
| | | | | Top Of Continuous Rock At 73.1 ft. | 84 |
| 80.0 | | | 535.8 | Slight And Very Slight Weathering (73.1 ft to 87.9 ft.) | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME PER MIN. | 535.8 ELEV. | REMARKS | NO. |
|-----------|--|--------------------------|-------------|---|-----|
| 80.0 | Hard Light Gray Mafic Gneiss | NX 84 | | | 84 |
| | | | 530.8 | Severe Weathering (87.9 ft to 89.4 ft.) Slight And Very Slight Weathering (89.4 ft to 98.0 ft.) | |
| | | 93 | 525.8 | | 87 |
| | | | 520.8 | Epidote Healed Joints (95.1 to 95.6 ft.) Very Close Joints - Moderately Severely Weathered Zone (97.3 ft to 98.0 ft.) | |
| | | 100 | | | 86 |
| 98.0 | Coring Terminated At 98.0 ft. | | 515.8 | | |
| | Groundwater At 32.3 ft At Time Of Boring | | | | |
| | Stabilized Groundwater At 31.9 ft. | | | | |
| | No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1088
 CORE DRILLING MEETS ASTM D-5110
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 3
TEST BORING RECORD

BORING NO. B-144AP
 DATE DRILLED 2-11-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1088
 CORE DRILLING MEETS ASTM D-5110
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-144AP
 DATE DRILLED 2-11-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE S. & D. TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-----------------------------------|-------|---------|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 61.1 ft. | | 611.0 | | |
| 606.0 | N=21 Very Stiff Fine To Medium Sandy Micaceous Silt | | | | |
| 601.0 | | | | | |
| 596.0 | N=23 Firm Silty Slightly Micaceous Fine To Medium Sand With Small Rock Fragments | | | | |
| 591.0 | | | | | |
| 586.0 | N=21 Firm Yellowish-Tan Silty Slightly Micaceous Fine To Medium Sand | | | | |
| 581.0 | | | | | |
| 576.0 | N=34 Hard Yellowish-Tan Very Micaceous Silt | | | | |
| 571.0 | | | | | |
| 40.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE S. & D. TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-----------------------------------|-------|---|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 61.1 ft. | | 571.0 | | |
| 44.3 | Partially Weathered Rock | | 566.0 | N=50/4" Partially Weathered Rock That Becomes Light Olive Gray Fine Sandy Micaceous Silt | |
| | | | 561.0 | | |
| | | | 556.0 | N=50/0" No Recovery | |
| | | | 551.0 | NW Casing To 60.0 ft., Carbide Bit Refusal At 61.1 ft. 61.1 ft to 73.0 ft.: Moderate To Very Severe Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 0 |
| 61.1 | Hard To Very Soft Tannish-Gray And Light Gray Felsic Gneiss | NX 21 | 546.0 | | |
| | | | 541.0 | Steeply Dipping Leached Pegmatite Vein Of Quartz And Muscovite (61.1 - 61.3 ft.) | 42 |
| 73.0 | Moderately Hard To Hard Light Bluish Gray And Light Gray Felsic Gneiss | NX 100 | 536.0 | Top Of Continuous Rock At 73.0 ft. | 65 |
| | | | 531.0 | | |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

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

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TEST BORING RECORD

BORING NO. B-144P
DATE DRILLED 11-27-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

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

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TEST BORING RECORD

BORING NO. B-144P
DATE DRILLED 11-27-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 531.0 ELEV. | REMARKS | R.O.D. |
|--------------|---|-------------------------------|----------------|---|--------|
| 80.0 | Moderately Hard To Hard Light Bluish Gray And Light Gray Felsic Gneiss | NX 100 | | 73.0 ft to 101.5 ft. Moderate Weathering. Moderately Close Joints - Low To Steep Dip. Close And Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 86 |
| | | | 526.0 | | |
| | | NX 100 | | W" Quartz Vein - Medium Dip (74.7 ft) Scattered Xenoliths Of Mafic Gneiss (73.0 ft - 86.5 ft.) Schistose Zone (85.6 ft.) | 95 |
| | | | 521.0 | | |
| | | NX 100 | | Leached Quartz And Epidote Coated Schistose Zone - Steeply Dipping (88.6 ft - 89.5 ft.) Schistose Zone (93.2 ft - 95.0 ft.) Severely Leached Filled Joints: 92.1 ft. 93.5 ft to 94.8 ft. 95.5 ft. | 97 |
| | | | 516.0 | | |
| | | NX 98 | | 101.5 ft to 118.2 ft. Slight To Very Slight Weathering. Close To Very Close Healed Joints - Low To Steep Dip. | 98 |
| | | | 511.0 | | |
| 103.3 | Hard Medium Gray Mafic Gneiss | | 506.0 | Numerous Calcite Rich Zones And Stringers (103.3 ft - 109.3 ft.) Steep Brecciated Contacts Between Mafic And Felsic Gneiss (103.3 And 109.3 ft.) | |
| | | | 501.0 | Pegmatitic Zone With Quartz, Calcite, Muscovite And Pyrite (106.9 ft to 107.3 ft.) Interfingering Mafic Gneiss (110.0 ft to 111.0 ft.) Scattered Schistose Zones (111.0 ft. to 118.2 ft.) 1/2 Inch Quartz Vein (117.9 ft.) | 98 |
| 109.3 | Very Hard Light Bluish Gray Felsic Gneiss | NX 98 | 496.0 | | |
| | | | | | |
| 118.2 | Coring Terminated At 118.2 ft. Groundwater At 19.9 ft. At 24 Hours * | | | | |

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

CORE DRILLING MEETS ASTM D-5118

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

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-144P

DATE DRILLED 11-27-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH PT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 615.8 ELEV. | REMARKS | R.O.D. |
|--------------|-------------|-------------------------------|----------------|--|--------|
| 0 | | | | | |
| | | | 610.8 | N#20 Very Stiff Brown Red Micaceous Fine To Medium Sandy Clayey Silt | |
| | | | 605.8 | | |
| | | | 600.8 | | |
| | | | 595.8 | N#20 Very Stiff Pink Orange Micaceous Sandy Silt | |
| | | | 590.8 | | |
| | | | 585.8 | | |
| | | | 580.8 | N#23 Firm Tan Gray Micaceous Very Silty Fine To Medium Sand | |
| | | | 575.8 | | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-5118

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

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-144AP

DATE DRILLED 2-11-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 69.6 ft. | | 625.9 | | |
| | | | 620.9 | N=16 Very Stiff Tannish-Pink Fine To Medium Sandy Micaceous Silt | |
| | | | 615.9 | | |
| | | | 610.9 | N=20 Very Stiff Pinkish-Tan Fine To Medium Sandy Micaceous Silt | |
| | | | 605.9 | | |
| | | | 600.9 | N=21 Very Stiff Tan Fine To Medium Sandy Micaceous Silt | |
| | | | 595.9 | | |
| | | | 590.9 | N=21 Very Stiff Tan Fine To Medium Sandy Micaceous Silt | |
| 40.0 | | | 585.9 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 69.6 ft. | | 585.9 | | |
| | | | 580.9 | N=25 Very Stiff Tan Fine To Medium Sandy Micaceous Silt | |
| | | | 575.9 | | |
| | | | 570.9 | N=50 Hard Tannish-Gray Fine To Medium Sandy Micaceous Silt | |
| | | | 565.9 | | |
| 61.0 | Partially Weathered Rock | | 560.9 | N=50/0" No Recovery | |
| | | | 555.9 | NW Casing To 69.0 ft; Carbide Bit Refusal At 69.6 ft | |
| 69.6 | Hard Medium Light Gray Mafic Gneiss | NX 91 | 550.9 | L Slight Weathering (69.6 ft to 76.4 ft.) Close To Very Close Heated Joints - Low To Steep Dip (69.6 to 118.9 ft.) Vertical Joints (76.4 ft to 78.5 ft.) Moderately Severe Weathering (76.4 ft to 80.0 ft.) | 67 |
| | | | 545.9 | | |
| 76.4 | Medium Tannish Gray Mafic Gneiss | | | | |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 3
TEST BORING RECORD

BORING NO. B-145P
DATE DRILLED 11-26-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 3
TEST BORING RECORD

BORING NO. B-145P
DATE DRILLED 11-26-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 545.9 | | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|-------|--|--------|
| | | | CLEV. | ELEV. | | |
| 80.0 | Soft To Very Soft Light Olive Gray To Olive Gray Mafic Gneiss | NX 69 | | | Very Severe Weathering (80.0 ft - 82.5 ft.) Slight Weathering (82.5 ft - 83.5 ft.) Moderately Severe Weathering (83.5 ft - 85.5 ft.) Very Severe Weathering - Probable Location Of Core Loss (85.5 ft - 90.6 ft.) Slight To Very Slight Weathering (90.6 ft to 92.5 ft.) Moderate To Moderately Severe Weathering (92.5 ft to 96.1 ft.) Very Severe Weathering (97.0 ft. - 97.5 ft.) Close To Moderately Close Quartz-Calcite Filled Joints And Stringers (95.6 to 118.9 ft.) Top Of Continuous Rock At 97.5 ft. 97.5 ft to 118.9 ft.: Slight To Very Slight Weathering. Joints Indeterminant Above 97.5 ft. | 6 |
| | | | 540.9 | | | |
| | | | 535.9 | | | |
| 90.6 | Hard Medium Light Gray Mafic Gneiss | | | | | |
| 92.5 | Medium To Soft Yellowish Gray To Very Light Gray Felsic Gneiss | NX 87 | | | | 46 |
| | | | 530.9 | | | |
| 95.0 | Hard Medium Light Gray Mafic Gneiss | | | | | |
| | | | 525.9 | | | |
| | | NX 100 | | | | 100 |
| | | | 520.9 | | | |
| | | | 515.9 | | | |
| | | NX 100 | | | | 100 |
| | | | 510.9 | | | |
| 118.9 | Coring Terminated At 118.9 ft. * | | 505.9 | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Groundwater At 38.1 ft At 24 Hours
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

TEST BORING RECORD

BORING NO. B-145P

DATE DRILLED 11-26-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 619.8 | | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|-------|--|--------|
| | | | CLEV. | ELEV. | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 62.0 ft. | | | | | |
| | | | | 614.8 | | |
| | | | | 609.8 | N=24 Very Stiff Tan-Brown Micaceous Silt | |
| | | | | 604.8 | | |
| | | | | 599.8 | N=22 Very Stiff Tan Fine To Medium Sandy Micaceous Silt | |
| | | | | 594.8 | | |
| | | | | 589.8 | N=29 Very Stiff Tan Fine To Medium Sandy Very Slightly Clayey Micaceous Silt | |
| | | | | 584.8 | | |
| | | | | 579.8 | Dense Tan Very Silty Micaceous Fine To Medium Sand N=33 | |
| 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.

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.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 80.0 | Soft To Very Soft Light Olive Gray To Olive Gray Mafic Gneiss | NX 69 | 545.9 | Very Severe Weathering (80.0 ft - 82.5 ft.) Slight Weathering (82.5 ft - 83.5 ft.) Moderately Severe Weathering (83.5 ft - 85.5 ft.) Very Severe Weathering - Probable Location Of Core Loss (85.5 ft - 90.6 ft.) Slight To Very Slight Weathering (90.6 ft to 92.5 ft.) Moderate To Moderately Severe Weathering (92.5 ft to 96.1 ft.) Very Severe Weathering (97.0 ft. - 97.5 ft.) Close To Moderately Close Quartz-Calcite Filled Joints And Stringers (95.6 to 118.9 ft.) Top Of Continuous Rock At 97.5 ft. 97.5 ft to 118.9 ft.: Slight To Very Slight Weathering. | 6 |
| 90.6 | Hard Medium Light Gray Mafic Gneiss | NX 87 | 540.9 | | 46 |
| 92.5 | Medium To Soft Yellowish Gray To Very Light Gray Felsic Gneiss | | 535.9 | | |
| 95.0 | Hard Medium Light Gray Mafic Gneiss | NX 100 | 530.9 | Joints Indeterminant Above 97.5 ft. | 100 |
| | | | 525.9 | | |
| | | NX 100 | 520.9 | | 100 |
| | | | 515.9 | | |
| | | NX 100 | 510.9 | | 100 |
| | | | 505.9 | | |
| 118.9 | Coring Terminated At 118.9 ft. * | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 62.0 ft. | | 619.8 | | |
| | | | 614.8 | | |
| | | | 609.8 | N=24 Very Stiff Tan-Brown Micaceous Silt | |
| | | | 604.8 | | |
| | | | 599.8 | N=22 Very Stiff Tan Fine To Medium Sandy Micaceous Silt | |
| | | | 594.8 | | |
| | | | 589.8 | N=29 Very Stiff Tan Fine To Medium Sandy Very Slightly Clayey Micaceous Silt | |
| | | | 584.8 | | |
| | | | 579.8 | Dense Tan Very Silty Micaceous Fine To Medium Sand | |
| 40.0 | | | | N=33 | |

BORING AND SAMPLING MEETS ASTM D-1586 * Groundwater At 38.1 ft At 24 Hours Page 3 of 3
 CORE DRILLING MEETS ASTM D-2113 Drilling Water Loss At 79.7 ft. TEST BORING RECORD
 PENETRATION IS THE NUMBER OF BLOWS OF 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°

BORING AND SAMPLING MEETS ASTM D-1586 Page 1 of 3
 CORE DRILLING MEETS ASTM D-2113 TEST BORING RECORD
 PENETRATION IS THE NUMBER OF BLOWS OF 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°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 62.0 ft. | | 574.8 | | |
| 47.0 | Partially Weathered Rock | | 569.8 | N=50/6" Partially Weathered Rock That Becomes Tan Silty Micaceous Fine To Coarse Sand When Sampled | |
| | | | 564.8 | | |
| | | | 559.8 | N=50/2" Dense Tan Silty Micaceous Fine To Coarse Sand | |
| 62.0 | Moderately Hard To Medium Light Gray Felsic Gneiss | NQ 70 | 554.8 | Carbide Bit Refusal At 62.0 ft. N W Casing To 67.0 ft. Cored To 104.0 ft With NQ Wire Line. 62.0 ft to 84.7 ft.: Moderately Severe To Severe Weathering. Close To Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 50 |
| | | NQ 67 | 549.8 | | 14 |
| | | NQ 51 | 544.8 | | 0 |
| 80.0 | | | 539.8 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 80.0 | Very Soft To Medium Very Light Gray Felsic Gneiss | NQ 51 | | | 0 |
| 84.7 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NQ 96 | 534.8 | Top Of Continuous Rock At 84.7 ft. 84.7 ft to 104.0 ft.: Slight To Very Slight Weathering. Very Close To Close Healed Joints - Low To Steep Dip. Scattered Very Thin Schistose Zones With Calcite. | 96 |
| | | | 529.8 | 1/2 Inch, Vertical Quartz Vein (85.0 ft.) | |
| | | | 524.8 | 1 Inch, Steep Dip Leached Quartz Vein (93.9 ft.) | 100 |
| | | NQ 100 | 519.8 | | |
| 104.0 | Coring Terminated At 104.0 ft. Stabilized Groundwater At 29.6 ft. Drilling Water Loss At 87.0 ft. | | 514.8 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 3
TEST BORING RECORD

BORING NO. B-146P
 DATE DRILLED 11-26-73
 JOB NO. CH 2920

ROCK JOINT
 L = LOW DIP 0-30°
 M = MED. DIP 30-45°
 S = STEEP DIP 45-90°

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 3 of 3
TEST BORING RECORD

BORING NO. B-146P
 DATE DRILLED 11-26-73
 JOB NO. CH 2920

ROCK JOINT
 L = LOW DIP 0-30°
 M = MED. DIP 30-45°
 S = STEEP DIP 45-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|---|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 57.0 ft. | | 618.3 | | |
| | | | 613.3 | N=34 Hard Red-Brown Fine To Medium Sandy Slightly Micaceous Silt With Small Quartz Fragments | |
| | | | 608.3 | N=23 Very Stiff Tannish-Brown And Light Gray Fine To Medium Sandy Micaceous Silt | |
| | | | 603.3 | | |
| | | | 598.3 | N=28 Firm Tannish Brown And Light Gray Very Silty Micaceous Fine To Medium Sand | |
| | | | 593.3 | | |
| | | | 588.3 | N=35 Hard Tannish-Gray Fine To Medium Sandy Very Micaceous Silt | |
| | | | 583.3 | | |
| 38.8 | Partially Weathered Rock | | 578.3 | N=50/6" Partially Weathered Rock That Becomes Tannish Gray Fine To Medium Sandy Very Micaceous * | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

Page 1 of 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| 40.0 | Partially Weathered Rock | | 578.3 | | |
| | | | 573.3 | | |
| | | | 568.3 | N=50/0" No Recovery | |
| | | | 563.3 | | |
| 57.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 558.3 | Carbide Bit Refusal And Top Of Continuous Rock At 57.0 ft. 57.0 ft to 78.0 ft.: Very Slight Weathering. Close Healed Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 553.3 | Close Leached Joints - Medium To Steep Dip (57.0 ft. to 58.2 ft.) | 100 |
| | | NX 100 | 548.3 | Leached Steep Dip Quartz Veinlet (71.8 ft.) | 100 |
| | | | 543.3 | | |
| 77.0 | Hard Medium Light Gray Mafic Gneiss | | | Numerous Calcite Zones And Veinlets (77.0 ft. to 78.0 ft.) | |
| 78.0 | Coring Terminated At 78.0 ft. Stabilized Groundwater At 18.3 ft. * | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-147P

DATE DRILLED 11-30-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------------|---------|-------------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 115.0 ft. | 673.4 | | |
| 668.4 | N=11 Stiff Brown Slightly Clayey Slightly Micaceous Silt | 663.4 | | |
| 658.4 | N=25 Very Stiff Tan And Pink Fine To Medium Sandy Micaceous Silt | 653.4 | | |
| 648.4 | N=34 Hard Tan And Pink Fine To Medium Sandy Micaceous Silt With Some Rock Fragments | 643.4 | | |
| 638.4 | N=32 Hard Reddish Brown Fine Sandy Micaceous Silt With Some Small Rock Fragments | 633.4 | | |
| 40.0 | | | | |

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-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------------|---------|-------------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 115.0 ft. | 633.4 | | |
| 628.4 | N=73/11" Hard Tan-Brown Fine Sandy Slightly Micaceous Silt With Small Rock Fragments | 623.4 | | |
| 618.4 | | 613.4 | | |
| 608.4 | N=45 Dense Tannish - Light Gray Very Silty Micaceous Fine To Medium Sand | 603.4 | | |
| 598.4 | | 593.4 | | |
| 80.0 | | | | |

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-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 593.4 ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------------|----------------|--|--------|
| 80.0 | | | 588.4 | | |
| 89.0 | Partially Weathered Rock | | 583.4 | N=50/5" Partially Weathered Rock That Becomes Tannish Light-Gray Silty Micaceous Fine To Coarse Sand | |
| | | | 578.4 | | |
| | | | 573.4 | | |
| | | | 568.4 | N=50/0" No Recovery | |
| | | | 563.4 | | |
| 115.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss. | NX 100 | 558.4 | Carbide Bit Refusal At 115.0 ft. Top Of Continuous Rock At 115.2 ft. | 100 |
| | | NX 100 | | | |
| 120.0 | | | 553.4 | | 71 |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 553.4 ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------------|----------------|--|--------|
| 120.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 98 | | 115.0 ft to 152.2 ft. Slight To Very Slight Weathering. Close To Very Close Healed Joints - Rarely Leached - Low To Steep Dip. | 77 |
| | | | 548.4 | Low Dip Quartz Vein (125.4 ft.) | 95 |
| | | NX 100 | 543.4 | Steep Dip Quartz Vein With Leached Contacts (128.7 ft.) | |
| | | | 538.4 | | 73 |
| | | NX 99 | 533.4 | Moderately Hard, Moderately Weathered Zone (142.2 ft - 142.7 ft.) | |
| | | | 528.4 | | |
| | | NX 99 | 523.4 | Near Vertical Quartz Stringer (151.8 ft.) | 91 |
| 152.2 | Coring Terminated At 152.2 ft. Groundwater At 73.0 ft on 11-26-73 No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 3 of 4
TEST BORING RECORD

BORING NO. 8-148P

DATE DRILLED 11-22-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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 4 of 4
TEST BORING RECORD

BORING NO. 8-148P

DATE DRILLED 11-22-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH PT. | DESCRIPTION | 602.8 | | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---|--------|
| | | CORE % & TIME SIZE MIN. | ELEV. | | |
| 0 | Rotary Wash-Drilled With Carbide Fishtail To 41.1 Ft | | | | |
| | | | 597.6 | | |
| | | | 592.6 | N=11 Stiff Pink Tan Micaceous Fine To Medium Sandy Silt | |
| | | | 587.6 | | |
| | | | 582.6 | N=18 Firm Gray Tan Slightly Micaceous Very Silty Fine To Medium Sand | |
| | | | 577.6 | | |
| | | | 572.6 | N=32 Dense Gray Tan Micaceous Very Silty Fine to Medium Sand | |
| | | | 567.6 | | |
| 38.7 | Partially Weathered Rock | | 562.6 | Partially Weathered Rock That Becomes Gray Tan Slightly Micaceous Silty Fine To Coarse Sand With Rock Fragments When Sampled | |
| 40.0 | | | | | |

| DEPTH PT. | DESCRIPTION | 562.6 | | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---|--------|
| | | CORE % & TIME SIZE MIN. | ELEV. | | |
| 40.0 | | | | | |
| 41.1 | Partially Weathered Rock | | | Carbide Bit Refusal At 41.1 ft | |
| | Moderately Hard Light Gray To Pale Yellowish Orange Felsic Gneiss | NX 51 | 557.6 | 41.1 ft - 43.6 ft: Moderate Weathering. Very Close Healed Joints - Low To Steep Dip. Close To Very Close Joints - Low To Steep Dip. Severely Weathered Zone (43.6 ft - 48.9 ft.) Top Of Continuous Rock At 48.9 ft | 31 |
| 48.9 | Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | 100 | 552.6 | 48.9 ft - 49.6 ft: Moderate Weathering. Very Close Healed Joints - Low To Steep Dip. Close Joints - Medium Dip. 49.6 ft - 67.8 ft: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 97 |
| | | | 547.6 | | |
| | | | 542.6 | Several Leached Healed Joints (50.1 ft.) Xenolith Of Mafic Gneiss (60.2 ft.) | 100 |
| | | 100 | 537.6 | | |
| 67.7 | Hole Terminated At 67.7 Ft Groundwater At 26.0 ft After 24 Hours No Drilling Water Loss | | 532.6 | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 2
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-1588
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-149P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|---|----------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 37.8 ft. | | | | |
| | | 602.1 | | | |
| | | 597.1 | | N=12 Stiff Pinkish Tan Fine To Medium Sandy Silt | |
| | | 592.1 | | | |
| | | 587.1 | | N=18 Firm Tan Very Silty Fine To Medium Sand With Rock Fragments | |
| | | 582.1 | | | |
| 28.5 | Partially Weathered Rock | 577.1 | | N=50/2" Partially Weathered Rock That Becomes Gray Silty Fine To Coarse Sand When Sampled | |
| | | 572.1 | | | |
| 37.8 | Moderately Hard Very Light Gray Felsic Gneiss | NX 100 | | Carbide Bit Refusal At 37.8 ft. | 87 |
| 39.5 | | | | Top Of Continuous Rock At 39.5 ft. | |
| 40.0 | | 567.1 | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------|---|----------|
| 40.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | 37.8 ft to 39.5 ft.: Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. Very Soft, Severely Weathered Zone (39.0 to 39.3 ft.) | 87 |
| | | NX 100 | 562.1 | | 100 |
| | | NX 100 | 557.1 | 39.5 ft to 65.5 ft.: Slight Weathering To Fresh. Close To Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | NX 100 | 552.1 | Slight Leaching Along Steep Healed Joints (42.4 ft to 43.0 ft.) 1/2 Inch Quartz Vein (48.0 ft.) | |
| | | NX 100 | 547.1 | Schistose Zone, Medium Dip, With Calcite, Quartz And Chlorite (58.7 ft.) | 100 |
| | | | 542.1 | Quartz Veins: Steep Dip - 62.2 ft. Medium Dip - 65.5 ft. | |
| 65.5 | Coring Terminated At 65.5 ft. Groundwater At 28.4 ft. At 24 Hours No Drilling Water Loss | | | Large Mafic Xenoliths: 43.8 ft. 49.0 ft. 50.3 ft. | |

BORING AND SAMPLING MEETS ASTM D-1999
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 1 of 2
* Hard To Very Hard Light Bluish Gray Felsic Gneiss
TEST BORING RECORD
BORING NO. B-150P
DATE DRILLED 12-11-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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°

BORING AND SAMPLING MEETS ASTM D-1999
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD
BORING NO. B-150P
DATE DRILLED 12-11-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE 631.9 | | REMARKS | R.O.D. |
|--------------|--|------------|--------------------|---|--------|
| | | % | TIME MIN. ELEV. | | |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 86.8 ft. | | | | |
| | | 626.9 | | | |
| | | 621.9 | N=13 | Stiff Pink And Tan Fine Sandy Slightly Micaceous Silt | |
| | | 616.9 | | | |
| | | 611.9 | N=15 | Stiff Tannish Gray Fine Sandy Slightly Micaceous Silt | |
| | | 606.9 | | | |
| | | 601.9 | N=17 | Very Stiff Tannish Gray Fine To Medium Sandy Silt With Rock Fragments | |
| | | 596.9 | | | |
| | | 591.9 | | | |

40.0
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 84 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-151P
DATE DRILLED 12-19-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE 591.9 | | REMARKS | R.O.D. |
|--------------|--|------------|--------------------|---|--------|
| | | % | TIME MIN. ELEV. | | |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 86.8 ft. | | | | |
| | | 586.9 | N=34 | Dense Tannish Gray Very Silty Slightly Micaceous Fine To Medium Sand With Rock Fragments | |
| | | 581.9 | N=46 | Dense Gray Silty Slightly Micaceous Fine Sand | |
| | | 576.9 | | | |
| 59.1 | Partially Weathered Rock | 571.9 | N=50/3" | Partially Weathered Rock That Becomes Silty Slightly Micaceous Fine To Medium Sand When Sampled | |
| | | 566.9 | | | |
| | | 561.9 | N=50/3" | Very Dense Brownish Gray Silty Slightly Micaceous Fine To Coarse Sand | |
| | | 556.9 | | | |
| | | 551.9 | N=50/1" | No Recovery | |
| 80.0 | | | | | |

80.0
BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 84 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-151P
DATE DRILLED 12-19-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | ROD |
|-----------|---|-----------------|-----------|-------|--|-----|
| 80.0 | Partially Weathered Rock | | | 551.9 | | |
| | | | | 546.9 | | |
| 86.8 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | 541.9 | Carbide-Bit Refusal And Top Of Continuous Rock At 86.8 ft. 86.8 ft to 108.8 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Occasional Small Mafic Xenoliths | 100 |
| | | 96 | | 536.9 | Moderately Weathered Zone (88.9 ft. to 89.9 ft.) | 71 |
| | | | | 531.9 | | 100 |
| | | | | 526.9 | | 100 |
| 108.8 | Coring Terminated At 108.8 ft. Groundwater At 51.5 ft After 24 Hours No Drilling Water Loss | | | | Slickensided Surface - Steep Dip - Chlorite Coated (107.4 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 3 of 3
TEST BORING RECORD

BORING NO. B-151P
 DATE DRILLED 12-19-73
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | ROD |
|-----------|---|-----------------|-----------|-------|--|-----|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 47.9 ft. | | | 601.8 | | |
| | | | | 596.8 | | |
| | | | | 591.8 | N=17 Very Stiff Tannish Orange Slightly Fine Sandy Micaceous Silty | |
| | | | | 586.8 | | |
| | | | | 581.8 | N=32 Dense Tan And Light Gray Silty Micaceous Fine Sand | |
| | | | | 576.8 | | |
| | | | | 571.8 | N=83 Hard Tan And Light Gray Slightly Fine Sandy Micaceous Silt With Partially Weathered Rock Fragments | |
| | | | | 566.8 | | |
| 39.1 | | | | 561.8 | Partially Weathered Rock That Becomes Grayish Tan Very Silty Slightly Micaceous Fine To Medium Sand When * | |
| 40.0 | Partially Weathered Rock | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

*Sampled
 Page 1 of 3
TEST BORING RECORD

BORING NO. B-152P
 DATE DRILLED 1-29-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.O.D. |
|-----------|---|-----------------|-------|---|--------|
| 80.0 | Partially Weathered Rock | | | | |
| | | | 546.9 | | |
| 86.8 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Carbide-Bit Refusal And Top Of Continuous Rock At 86.8 ft. 86.8 ft to 108.8 ft. Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Occasional Small Mafic Xenoliths | 100 |
| | | 96 | 541.9 | M M M | 71 |
| | | | 536.9 | M | 100 |
| | | 100 | 531.9 | | |
| | | | 526.9 | S | 100 |
| 108.8 | Coring Terminated At 108.8 ft. Groundwater At 51.5 ft After 24 Hours No Drilling Water Loss | | | Slickensided Surface - Steep Dip - Chlorite Coated (107.4 ft.) | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.O.D. |
|-----------|---|-----------------|-------|--|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 47.9 ft. | | | | |
| | | | 596.8 | | |
| | | | 591.8 | N=17 Very Stiff Tannish Orange Slightly Fine Sandy Micaceous Silty | |
| | | | 586.8 | | |
| | | | 581.8 | N=32 Dense Tan And Light Gray Silty Micaceous Fine Sand | |
| | | | 576.8 | | |
| | | | 571.8 | N=83 Hard Tan And Light Gray Slightly Fine Sandy Micaceous Silty With Partially Weathered Rock Fragments | |
| | | | 566.8 | | |
| 39.1 | | | 561.8 | Partially Weathered Rock That Becomes Grayish Tan Very Silty Slightly Micaceous Fine To Medium Sand When * | |
| 40.0 | Partially Weathered Rock | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-151P
 DATE DRILLED 12-19-73
 JOB NO. CH 2920

ROCK JOINT:
 L = LOW DIP 0°-20°
 M = MED. DIP 30°-60°
 S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

*Sampled
 Page 1 of 3
TEST BORING RECORD

BORING NO. B-152P
 DATE DRILLED 1-29-74
 JOB NO. CH 2920

ROCK JOINT:
 L = LOW DIP 0°-20°
 M = MED. DIP 30°-60°
 S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R Q D |
|--------------|---|-------------------------------------|---|-------------|
| 40.0 | Partially Weathered Rock | | | |
| | | 556.8 | | |
| 47.9 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 88 | Carbide Bit Refusal At 47.9 ft. 47.9 ft to 71.5 ft.: Moderate Weathering. Close To Very Close Healed And Filled Joints - Low To Steep Dip. Close To Very Close Joints - Low To Steep Dip. | 56 |
| | | 546.0 | Very Severely Weathered Zones: 50 ft to 51.0 ft (.4 ft Core Loss) 55 ft to 65.8 ft (9.8 ft Core Loss) | 29 |
| | | 541.8 | | |
| | | 536.8 | | 30 |
| | | 531.8 | Leached Vertical Quartz Vein (68.1 ft to 69.5 ft.) Vertical Schistose Zones: 69.5 ft to 70.4 ft. 71.9 ft to 74.9 ft. (Filled With Quartz, Calcite And Pyrite) 77.5 ft to 78.1 ft. | 58 |
| 71.5 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | 77 | L Top Of Continuous Rock At 71.5 ft. | |
| | | 526.8 | 71.5 ft to 90.9 ft.: Slight To Very Slight Weathering. Close To Very Close Healed And Rarely Filled Joints - Low To Steep Dip. | 100 |
| | | 521.8 | | 100 |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | R Q D |
|--------------|---|-------------------------------------|--|-------------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | 100 |
| | | 516.8 | | 100 |
| 88.5 | Hard Medium Gray Mafic Gneiss | 100 | Very Close Quartz And Calcite Filled Joints - Low To Steep Dip (88.5 - 90.9 ft.) | |
| 90.9 | Coring Terminated At 90.9 ft. Groundwater At 26.5 ft At Time Of Boring | 511.8 | | |
| | | 506.8 | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-152P
DATE DRILLED 1-29-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO

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BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-152P
DATE DRILLED 1-29-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO

Appendix 2BB, Rev. 2

| | | 616.7 | | | |
|--------------|--|-------------------------------|-------|--|--------|
| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 65.4 ft. | | | | |
| | | | 611.7 | | |
| | | | 606.7 | N=14 Stiff Tan Gray Fine To Medium Sandy Silt | |
| | | | 601.7 | | |
| | | | 596.7 | N=29 Very Stiff Tan Gray Slightly Micaceous Fine To Medium Sandy Silt | |
| | | | 591.7 | | |
| | | | 586.7 | N=21 Very Stiff Tan Brown Slightly Micaceous Fine To Medium Sandy Silt With Occasional Rock Fragments | |
| | | | 581.7 | | |
| 40.0 | | | 576.7 | N=50 Hard Tan Slightly Micaceous Fine To Medium Sandy Silt | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5119
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD
BORING NO. B-153P
DATE DRILLED 12-27-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO

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

| | | 576.7 | | | |
|--------------|--|-------------------------------|--------|--|--------|
| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 65.4 ft. | | | | |
| | | | 571.7 | | |
| 48.9 | Partially Weathered Rock | | 566.7 | N=50/1" No Recovery | |
| | | | 561.7 | | |
| | | | 556.7 | N=50/3" Partially Weathered Rock That Becomes Gray Tan Silty Fine To Coarse Sand With Rock Fragments | |
| | | | 551.7 | Carbide Bit Refusal And Top Of Continuous Rock At 65.4 ft. 65.4 ft - 76.1 ft.: Slight To Moderate Weathering. Very Close Spaced Healed Joints - Low To Sleep Dip. | 90 |
| 65.4 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 546.7 | Very Close To Close Joints - Low To Medium Dip (67.2 ft - 70.2 ft.) (71.8 ft - 72.8 ft.) | 84 |
| | | 100 | 541.7 | Several Slightly Leached Joints (74.8 ft to 76.5 ft.) | |
| | | | M L | 76.1 - 88.7 ft.: Very Slight Weathering. Very Close To Close Healed Joints - Low To Sleep Dip. | 100 |
| 80.0 | | 100 | 536.7 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5119
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 2 of 3
TEST BORING RECORD
BORING NO. B-153P
DATE DRILLED 12-27-73
JOB NO. CH 2920
LAW ENGINEERING TESTING CO

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TYPE SIZE MIN. | 536.7 ELEV. | REMARKS | R.O.D. |
|--------------|--|---------------------------------|----------------|---|--------|
| 80.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | | | 100 |
| | | | 531.7 | Quartz Vein (81.0 ft - 82.1 ft.) 1/4 Inch, Steep Dip - Quartz Vein (88.1 ft.) | |
| 88.7 | Coring Terminated At 88.7 ft. Groundwater At 38.5 ft After 24 Hours No Drilling Water Loss | | 528.7 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TYPE SIZE MIN. | 594.2 ELEV. | REMARKS | R.O.D. |
|--------------|---|---------------------------------|----------------|---|--------|
| 0 | Rotary Wash-Drilled With Carbide Fishtail To 43.7 ft | | | | |
| | | | 589.2 | | |
| | | | 584.2 | N=13 Firm Tanish Gray Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 579.2 | | |
| | | | 574.2 | N=30 Firm Tannish Gray Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 569.2 | | |
| | | | 564.2 | N=69 Very Dense Tanish Gray Silty Slightly Micaceous Fine To Coarse Sand | |
| | | | 559.2 | | |
| 38.5 | Partially Weathered Rock | | | Partially Weathered Rock That Becomes Gray Silty Slightly Micaceous Fine To Coarse Sand When * | |
| 40.0 | Partially Weathered Rock | | 554.2 | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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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-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 536.7 ELEV. | REMARKS | N S.O.D. |
|--------------|--|---------------------------------|----------------|---|-------------|
| 80.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | | | 100 |
| | | | 531.7 | Quartz Vein (81.0 ft - 82.1 ft.) 1/8 Inch, Steep Dip - Quartz Vein (88.1 ft.) | |
| 88.7 | Coring Terminated At 88.7 ft. Groundwater At 38.5 ft After 24 Hours No Drilling Water Loss | | 528.7 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 594.2 ELEV. | REMARKS | N S.O.D. |
|--------------|---|---------------------------------|----------------|---|-------------|
| 0 | Rotary Wash-Drilled With Carbide Fishtail To 43.7 ft | | | | |
| | | | 589.2 | | |
| | | | 584.2 | N=13 Firm Tanish Gray Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 579.2 | | |
| | | | 574.2 | N=30 Firm Tannish Gray Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 569.2 | | |
| | | | 564.2 | N=69 Very Dense Tanish Gray Silty Slightly Micaceous Fine To Coarse Sand | |
| | | | 559.2 | | |
| 38.5 | Partially Weathered Rock | | | Partially Weathered Rock That Becomes Gray Silty Slightly Micaceous Fine To Coarse Sand When * | |
| 40.0 | | | 554.2 | | |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°

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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-1588
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°

* 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.

| DEPTH FT. | DESCRIPTION | CORE SIZE | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------|-----------|-------|---|--------|
| 40.0 | Partially Weathered Rock | | | 554.2 | | |
| 43.7 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX | 100 | 549.2 | Carbide Bit Refusal And Top Of Continuous Rock At 43.7 ft | 92 |
| | | | | 544.2 | 43.7 ft - 67.7 ft: Slight To Very Slight Weathering. Close To Very Close Healed Joints - Low To Steep Dip. Scattered Small Xenoliths Of Mafic Gneiss. | |
| | | | | 539.2 | Xenolith Of Mafic Gneiss (47.6 ft.) Leached Quartz Vein (50.7 ft.) Vertical Quartz Vein Up To 1/2 Inch Thick (54.9 ft - 57.5 ft.) Mafic Gneiss Zone (60.9 ft. - 61.6 ft.). | 100 |
| | | | | 534.2 | (Irregular Vertical Quartz Vein Up To 2 inches Thick (64.8 ft - 65.8 ft.)) | 100 |
| | | | | 529.2 | | 100 |
| 67.7 | Coring Terminated At 67.7 ft Groundwater At 20.9 ft After 24 Hours No Drilling Water Loss | | | 524.2 | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 2
TEST BORING RECORD

BORING NO. B-154P
DATE DRILLED 12-17-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE SIZE | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------|-----------|-------|--|--------|
| 0 | Rotary Wash-Drilled With Carbide Fishtail To 39.2 Ft | | | 601.4 | | |
| | | | | 596.4 | | |
| | | | | 591.4 | N#25 Firm Tan Pink Very Slightly Micaceous Silty Fine To Coarse Sand With Rock Fragments | |
| | | | | 586.4 | | |
| | | | | 581.4 | N#14 Firm Tan Brown Slightly Micaceous Very Silty Fine To Medium Sand | |
| | | | | 576.4 | | |
| | | | | 571.4 | N#16 Very Stiff Brown Micaceous Fine Sandy Silt | |
| | | | | 566.4 | | |
| | | | | 561.4 | N#50/3" No Recovery | |
| 39.2 | Moderately Hard To Hard Very Light | | | 561.4 | Carbide Bit Refusal At 39.2 ft | 100 |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 2
TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-------|--|--------|
| 40.0 | Partially Weathered Rock | | | | |
| 43.7 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 549.2 | Carbide Bit Refusal And Top Of Continuous Rock At 43.7 ft | 92 |
| | | | 544.2 | 43.7 ft - 67.7 ft: Slight To Very Slight Weathering. Close To Very Close Healed Joints - Low To Steep Dip. Scattered Small Xenoliths Of Mafic Gneiss. | |
| | | 100 | 539.2 | Xenolith Of Mafic Gneiss (47.6 ft.) Leached Quartz Vein (50.7 ft.) Vertical Quartz Vein Up To 1/2 Inch Thick (54.9 ft - 57.5 ft.) Mafic Gneiss Zone (60.9 ft. - 61.6 ft.) | 100 |
| | | 100 | 534.2 | Irregular Vertical Quartz Vein Up To 2 Inches Thick (64.8 ft - 65.8 ft.) | 100 |
| | | 100 | 529.2 | | 100 |
| 67.7 | Coring Terminated At 67.7 ft Groundwater At 20.9 ft After 24 Hours No Drilling Water Loss | | 524.2 | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-154P

DATE DRILLED 12-17-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------------|-------|--|--------|
| 0 | Rotary Wash-Drilled With Carbide Fishtail To 39.2 Ft | | | | |
| | | | 596.4 | | |
| | | | 591.4 | N=25 Firm Tan Pink Very Slightly Micaceous Silty Fine To Coarse Sand With Rock Fragments | |
| | | | 586.4 | | |
| | | | 581.4 | N=14 Firm Tan Brown Slightly Micaceous Very Silty Fine To Medium Sand | |
| | | | 576.4 | | |
| | | | 571.4 | N=16 Very Stiff Brown Micaceous Fine Sandy Silt | |
| | | | 566.4 | | |
| | | | 561.4 | N=50/3" No Recovery | |
| 39.2 | Moderately Hard To Hard Very Light | 100 | 561.4 | Carbide Bit Refusal At 39.2 ft | 100 |

BORING AND SAMPLING MEETS ASTM D-1588 * Gray Felsic Gneiss
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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-155P

DATE DRILLED 1-2-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|---------------------------|-------|---|--------|
| 60.0 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 100 | | Top Of Continuous Rock At 41.4 ft | 50 |
| | | 100 | 556.4 | 39.2 ft - 46.2 ft.: Moderate Weathering. Close To Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 81 |
| 46.2 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | 100 | 551.4 | 46.2 ft - 61.1 ft.: Very Slight Weathering To Fresh Close Chlorite And Calcite Healed Joints - Medium To Steep Dip. Occasional Mafic Gneiss Xenoliths And Very Thin Schistose Zones. | 100 |
| | | | 546.4 | Moderately Weathered Zone (48.6 ft - 49.2 ft.) Moderately Weathered | |
| | | 100 | 541.4 | 1/4 Inch Quartz Vein Along Medium - Steep Dip - Slickensided Surface (55.7 ft.) | 100 |
| 61.1 | Coring Terminated At 61.1 ft | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------|-------|---|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 58.0 ft. | | | | |
| | | | 609.6 | | |
| | | | 604.6 | N=13 Firm Pinkish-Tan Very Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 599.6 | | |
| | | | 594.6 | N=21 Firm Tannish Gray Very Silty Micaceous Fine To Medium Sand | |
| | | | 589.6 | | |
| 29.5 | Partially Weathered Rock | | 584.6 | N=50/3" Partially Weathered Rock That Becomes Tannish Gray Slightly Silty Slightly Micaceous Fine To Coarse Sand When Sampled | |
| | | | 579.6 | | |
| 40.0 | | | 574.6 | N=50/1 1/2" No Recovery | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R Q D |
|--------------|--|-------------------------------|-------|---|-------------|
| 50.0 | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 100 | | Top Of Continuous Rock At 41.4 ft | 50 |
| | | 100 | 556.4 | 39.2 ft - 46.2 ft.: Moderate Weathering. Close To Very Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 81 |
| 46.2 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | 100 | 551.4 | 46.2 ft - 61.1 ft.: Very Slight Weathering To Fresh Close Chlorite And Calcite Healed Joints - Medium To Steep Dip. Occasional Mafic Gneiss Xenoliths And Very Thin Schistose Zones. | 100 |
| | | | 546.4 | Moderately Weathered Zone (48.6 ft - 49.2 ft.) Moderately Weathered | |
| | | 100 | 541.4 | 1/4 Inch Quartz Vein Along Medium - Steep Dip - Slickensided Surface (55.7 ft.) | 100 |
| 61.1 | Coring Terminated At 61.1 ft | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 2
TEST BORING RECORD

BORING NO. B-155P
DATE DRILLED 1-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R Q D |
|--------------|---|-------------------------------|-------|---|-------------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 58.0 ft. | | | | |
| | | | 609.6 | | |
| | | | 604.6 | N=13 Firm Pinkish-Tan Very Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 599.6 | | |
| | | | 594.6 | N=21 Firm Tannish Gray Very Silty Micaceous Fine To Medium Sand | |
| | | | 589.6 | | |
| 29.5 | Partially Weathered Rock | | 584.6 | N=50/3" Partially Weathered Rock That Becomes Tannish Gray Slightly Silty Slightly Micaceous Fine To Coarse Sand When Sampled | |
| | | | 579.6 | | |
| 40.0 | | | 574.6 | N=50/1 1/2" No Recovery | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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

Page 1 of 3
TEST BORING RECORD

BORING NO. B-156P
DATE DRILLED 1-8-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|--|--------|
| 40.0 | Partially Weathered Rock | | | | |
| | | | 569.6 | | |
| | | | 564.6 | N=50/2" Very Dense Tannish Gray Very Silty Slightly Micaceous Fine To Coarse Sand | |
| | | | 559.6 | | |
| 58.0 | Hard Very Light Gray Felsic Gneiss | NX | 554.6 | Carbide Bit Refusal At 58.0 ft. | |
| 60.4 | Core Loss (Soil Zone) | 50 | | | 39 |
| 63.1 | Hard To Very Hard Very Light Gray Felsic Gneiss | | 549.6 | Top Of Continuous Rock At 63.1 ft 58.0 ft to 60.4 ft.: Moderate Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | 100 | | | |
| | | | 544.5 | 60.4 ft to 63.1 ft. Core Loss | |
| | | | | 63.1 ft to 83.9 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 97 |
| | | 100 | 539.5 | | |
| | | | | Slickensided Surface - Steep Dip - Chlorite Coated (68.0 ft.) Very Close Slightly Leached Joints - Low To Steep Dip (68.0 ft to 68.8 ft and 72.3 ft to 74.2 ft.) | 100 |
| | | 100 | 534.6 | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 44 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 NO. B-156P

DATE DRILLED 1-8-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|--|--------|
| 80.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | | Very Soft Completely Weathered Zone (74.2 ft to 74.5 ft.) Vertical Healed Joint Offset 1/4 Inch Along Medium Dip Healed Joint (82.8 ft.) | 98 |
| 83.9 | Coring Terminated At 83.9 ft. | | 529.5 | Thin Schistose Zones Below 74.0 ft. Small Mafic Xenoliths Scattered Throughout | |
| | Groundwater At 27.2 ft After 24 Hours | | | | |
| | No Drilling Water Loss | | | | |

Page 3 of 3

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 44 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 NO. B-156P

DATE DRILLED 1-8-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---|--------|
| | Rotary Wash-Drilled With Carbide Fishtail To 57.2 ft. | | 612.4 | | |
| | | | 607.4 | | |
| | | | 602.4 | N=10 Loose Tan Very Silty Fine To Medium Sand | |
| | | | 597.4 | | |
| | | | 592.4 | N=16 Very Stiff Tannish Gray Fine To Coarse Sandy Slightly Micaceous Silt | |
| | | | 587.4 | | |
| | | | 582.4 | N=22 Firm Gray Very Silty Micaceous Fine To Medium Sand | |
| | | | 577.4 | | |
| 39.1 | Partially Weathered Rock | | 572.4 | N=50/1" No Recovery | |
| 40.0 | | | | | |

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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-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| | Partially Weathered Rock | | 572.4 | | |
| | | | 567.4 | | |
| | | | 562.4 | N=77/8" Very Dense Tannish Gray Very Silty Micaceous Fine To Coarse Sand | |
| | | | 557.4 | | |
| 57.2 | Hard Very Light Gray Felsic Gneiss | NX 95 | 552.4 | Carbide Bit Refusal And Top Of Continuous Rock At 57.2 ft. Slight To Moderate Weathering. Close To Moderately Close Joints - Medium To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 75 |
| 63.7 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 547.4 | 63.7 ft to 83.3 ft. Very Slight Weathering To Fresh. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | | 542.4 | Very Steep Dipping Brecciated Zone With Calcite, Chlorite And Quartz Filling (64.7 ft to 67.8 ft.) | 100 |
| | | | 537.4 | Very Steep Dipping Quartz Calcite Vein With Schistose Contact Zone (67.4 ft to 68.8 ft) | |
| | | | 532.4 | Very Steep Dipping Quartz Vein (71.0 - 72.0 ft.) | |
| | | | | Very Steep Dipping Pegmatite Zone With Quartz, Calcite, Pink Orthoclase And Abundant Chlorite (72.6 ft to 73.8 ft.) | 100 |
| 80.0 | | | | | |

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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-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.C.D. |
|--------------|---|---------------------------------|-------|---------|-------------|
| 80.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 532.4 | | 100 |
| 83.3 | Coring Terminated At 83.3 ft. No Drilling Water Loss | | 527.4 | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-157P
DATE DRILLED 1-16-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.C.D. |
|--------------|---|---------------------------------|-------|---|-------------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 25.6 ft. | | 599.1 | | |
| 9.1 | Partially Weathered Rock | | 589.1 | N=88/11" Very Dense Tannish Gray Slightly Silty Fine To Medium Sand | |
| | | | 584.1 | | |
| | | | 579.1 | N=50/3" Partially Weathered Rock That Becomes Tannish Gray Micaceous Silt | |
| | | | 574.1 | | |
| 25.6 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 87 | | Carbide Bit Refusal At 25.6 ft. Complete Water Loss 25.6 ft to 34.9 ft.: Slight To Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed And Occasionally Leached Joints - Low to Steep Dip. | 67 |
| | | NX 100 | 569.1 | | 87 |
| 34.9 | Very Soft To Moderately Hard Medium Light Gray Mafic Gneiss | NX 66 | 564.1 | Completely Weathered Zone 34.9 ft to 37.2 ft. | 55 |
| 37.2 | Hard Medium Light Gray Mafic Gneiss | NX 100 | | Top Of Continuous Rock At 37.2 ft. | |
| 40.0 | | | 559.1 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-158P
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | | REMARKS | R.Q.D. |
|--------------|---|---------------------------------------|-------|---------|--------|
| | | | 532.4 | | |
| 80.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX | 100 | | 100 |
| 83.3 | Coring Terminated At 83.3 ft. No Drilling Water Loss | | 527.4 | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-157P
DATE DRILLED 1-16-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | | REMARKS | R.Q.D. |
|--------------|---|---------------------------------------|-------|--|--------|
| | | | 599.1 | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 25.6 ft. | | | | |
| | | | 594.1 | | |
| 9.1 | Partially Weathered Rock | | 589.1 | N=88/11" Very Dense Tannish Gray Slightly Silty Fine To Medium Sand | |
| | | | 584.1 | | |
| | | | 579.1 | N=50/5" Partially Weathered Rock That Becomes Tannish Gray Micaceous Silt | |
| | | | 574.1 | | |
| 25.6 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX | 87 | Carbide Bit Refusal At 25.6 ft. Complete Water Loss 25.6 ft to 34.9 ft.: Slight To Moderate Weathering, Close Joints - Low To Steep Dip. Very Close Healed And Occasionally Leached Joints - Low To Steep Dip. | 67 |
| | | NX | 100 | | 87 |
| 34.9 | Very Soft To Moderately Hard Medium Light Gray Mafic Gneiss | NX | 66 | Completely Weathered Zone 34.9 ft to 37.2 ft. | 55 |
| 37.2 | Hard Medium Light Gray Mafic Gneiss | NX | 100 | Top Of Continuous Rock At 37.2 ft. | 100 |
| 40.0 | | | 559.1 | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-158P
DATE DRILLED 12-13-73
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 559.1 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|----------------|---|-------------|
| 40.0 | Hard Medium Light Gray Mafic Gneiss | NX 100 | | 37.2 ft to 58.9 ft. Slight To Very Slight Weathering Close Calcite Coated Joints - Filled Joints And Veins - Low To Steep Dip. | 100 |
| | | | 554.1 | 1 Inch Steep Dipping Calcite Vein (45.8 ft.) 1/4 Offset Of Calcite Vein Along Low - Medium Dip Joint (50.2 ft.) | |
| | | NX 100 | 549.1 | 2 Inch Severely Weathered Zone (51.1 ft.) Severely Weathered Zone (52.8 ft. to 53.5 ft.) | 75 |
| 56.3 | Moderately Hard Medium Light Gray Mafic Gneiss | | 544.1 | Severely To Very Severely Weathered Zone (54.2 ft to 56.3 ft.) | |
| 58.9 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 539.1 | 58.9 ft to 67.1 ft.: Slight To Very Slight Weathering. Very Close To Close Calcite Healed And Rarely Coated Joints - Low To Steep Dip. | 100 |
| | | | 534.1 | Moderately Weathered Zone (57.5 ft to 58.2 ft.) 1 1/2 Inch Steep Dip Quartz Calcite Veins: 56.6 ft 58.0 ft. | |
| 67.1 | Coring Terminated At 67.1 ft. Drilling Water Loss At 26.5 ft. | | | Steep Dip Schistose Zone With Quartz, Calcite And Chlorite At Contact (58.9 ft.) Steep Dip, Chlorite Filled Brecciated Zone With Inclusions Of Quartz And Calcite (66.0 to 67.1 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-158P

DATE DRILLED 12-13-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Page 172 of 298 R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 612.4 ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|----------------|--|-------------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 41.7 ft. | | | | |
| | | | 607.4 | | |
| | | | 602.4 | N=42 Hard Reddish-Orange Slightly Fine Sandy Very Clayey - Slightly Micaceous Silt | |
| | | | 597.4 | | |
| | | | 592.4 | N=22 Very Stiff Tannish-Brown Slightly Fine Sandy Micaceous Silt | |
| | | | 587.4 | | |
| | | | 582.4 | N=25 Very Stiff Tannish-Gray Fine Sandy Micaceous Silt | |
| | | | 577.4 | | |
| 38.5 | Partially Weathered Rock | | 572.4 | N=50/2" Partially Weathered Rock That Becomes Tannish - Gray Fine To Coarse Sandy Micaceous Silt With | |
| 40.0 | | | | Small Rock Fragments When Sampled | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N - STANDARD PENETRATION LOSS OF DRILLING WATER

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TEST BORING RECORD

BORING NO. B-159P

DATE DRILLED 12-12-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 572.4 ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|----------------|---|--------|
| 40.0 | Partially Weathered Rock | | | | |
| 41.7 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 567.4 | 3M Carbide Bit Refusal And Top Of Continuous Rock At 41.7 ft. to 68.1 ft.: Very Slight Weathering. Close To Very Close Healed Joints - Low To Steep Dip. Occasional Slight Leaching Along Healed Joints (41.7 ft to 54.9 ft.) Irregular Quartz Veins With Chlorite Zones: Slightly Leached - 43.5 ft. Leached - 43.7 ft. to 43.9 ft. | 93 |
| | | 77 | 562.4 | 4L Intact - 45.3 to 45.9 ft. Leached - 47.3 ft. Intact - 49.0 ft. Broken - 50.6 ft. Leached - 51.3 ft. | 73 |
| | | 100 | 557.4 | 4M Very Thin Quartz Veins: Low Dip - 57.8 ft. Medium Dip - 58.9 ft. Medium Dip - 90.1 ft. | 100 |
| | | 100 | 552.4 | 1/2 Inch Steep Dip Schistose Zone (60.8 to 61.3 ft.) 1 Inch Steep Dip Quartz Vein (63.9 to 65.4 ft.) Medium Dip Irregular Quartz, Calcite Vein (66.4 ft.) | 100 |
| 61.3 | Hard Medium Light Gray Mafic Gneiss | | 547.4 | | |
| 58.1 | Coring Terminated At 68.1 ft. Groundwater At 20.4 ft At Time Of Boring Groundwater At 18.4 ft At 24 Hours No Drilling Water Loss | | 542.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-159P
DATE DRILLED 12-12-73
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 603.3 ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|----------------|---|--------|
| 40.0 | Rotary Wash-Drilled With Carbide Fishall To 65.9 ft | | | | |
| | | | 598.3 | | |
| | | | 593.3 | N=8 Firm Red Orange Clayey Silt | |
| | | | 588.3 | | |
| | | | 583.3 | N=9 Stiff Orange Tan Fine Sandy Slightly Micaceous Silt | |
| | | | 578.3 | | |
| | | | 573.3 | N=8 Firm Orange Tan Fine Sandy Silt | |
| | | | 568.3 | | |
| 40.0 | | | 563.3 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-160P
DATE DRILLED 1-7-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|---|--------|
| 40.0 | Rotary Wash-Drilled With Carbide Fish-tail To 65.9 ft. | | 563.3 | N=35 Hard Brown And Gray Fine Sandy Micaceous Silt | |
| | | | 558.3 | | |
| 49.9 | Partially Weathered Rock | | 553.3 | N=77/11" Partially Weathered Rock That Becomes Tan Fine Sandy Slightly Micaceous Silt With Seams Of Gray Silty Fine To Coarse Sand When Sampled | |
| | | | 548.3 | | |
| | | | 543.3 | N=84/8" Hard Tan And Gray Fine Sandy Very Micaceous Silt | |
| | | | 538.3 | | |
| 65.9 | Hard To Moderately Hard Medium Light Gray Mafic Gneiss | NX 91 | | Carbide Bit Refusal And Top Of Continuous Rock At 65.9 ft | 70 |
| 67.9 | Hard To Very Hard Medium Light Gray Mafic Gneiss | 100 | 533.3 | 65.9 ft - 67.9 ft: Moderate Weathering, Close Joints - Low To Medium Dip, Very Close Healed Joints - Low To Steep Dip. | |
| | | | 528.3 | 67.9 ft - 86.4 ft: Very Slight Weathering, Close Calcite Coated And Filled Healed Joints - Low To Steep Dip | 00 |
| | | | 523.3 | Slicksided Surface With Calcite And Chlorite Coating - Low Dip (77.0 ft.) | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-160P

DATE DRILLED 1-7-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|---|--------|
| 80.0 | Very Hard Light Gray Mafic Gneiss | NX 100 | 523.3 | Incompletely Filled Joint With Crystalline Calcite, Chlorite, Pyrite And Quartz (79.8 ft.) Fine Grained Appearance (67.9 ft - 77.5 ft.) Coarse Grained Appearance (77.5 ft. - 85.4 ft.) | 100 |
| 86.4 | Coring Terminated At 86.4 ft Groundwater At 21.1 ft After 24 Hours No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER,
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-160P

DATE DRILLED 1-7-73

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 112.4 ft. | | | | |
| | | | 620.6 | | |
| | | N=38 | 615.6 | Hard Brown Gray Fine To Medium Sandy Micaceous Silt | |
| | | | 610.6 | | |
| | | N=31 | 605.6 | Hard Tan Gray Fine To Medium Sandy Micaceous Silt | |
| | | | 600.6 | | |
| | | N=38 | 595.6 | Hard Tan Gray Slightly Micaceous Fine To Medium Sandy Silt | |
| | | | 590.6 | | |
| 40.0 | | N=37 | 585.6 | Hard Tan Gray Slightly Micaceous Fine To Medium * *Very Sandy Silt | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 112.4 ft. | | | | |
| | | | 580.6 | | |
| | | N=35 | 575.6 | Hard Tan Gray Slightly Micaceous Fine To Medium Very Sandy Silt | |
| | | | 570.6 | | |
| 59.1 | Partially Weathered Rock | N=50/5" | 565.6 | Partially Weathered Rock That Becomes Tan Gray Slightly Micaceous Silty Fine To Coarse Sand When Sampled | |
| | | | 560.6 | | |
| | | N=50/3" | 555.6 | Partially Weathered Rock That Becomes Tan Gray Micaceous Very Silty Fine To Coarse Sand With Rock Fragments | |
| | | | 550.6 | | |
| 80.0 | | N=50/3" | 545.6 | Partially Weathered Rock That Becomes Tan Brown Micaceous Very Silty Fine To Coarse Sand When * *Sampled | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-161P
 DATE DRILLED 1-17-74
 JOB NO. CH 2920

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TEST BORING RECORD
 LAW ENGINEERING TESTING CO

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-161P
 DATE DRILLED 1-17-74
 JOB NO. CH 2920

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TEST BORING RECORD
 LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|-----------------|-----------|-------|---|--------|
| 80.0 | Partially Weathered Rock | | | 540.6 | | |
| | | | | 535.6 | N=50/2" Partially Weathered Rock That Become Tan Gray Slightly Micaceous Fine To Coarse Sand When Sampled | |
| | | | | 530.6 | | |
| | | | | 525.6 | N=50/0" No Recovery | |
| | | | | 520.6 | | |
| | | | | 515.6 | N=50/0" No Recovery | |
| 112.4 | Hard To Moderately Hard Very Light Gray To Light Gray Felsic Gneiss | NX 39 | | 510.6 | Carbide Bit Refusal At 112.4 ft. 112.4 ft - 125.1 ft.: Moderately Severe Weathering. Close To Very Close Healed Joints Low To Steep Dip. Close To Very Close Joints - Low To Steep Dip. | 9 |
| | | | | 505.6 | | 30 |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|-----------------|-----------|-------|---|--------|
| 120.0 | Hard To Moderately Hard Very Light Gray To Light Gray Felsic Gneiss | NX 63 | | 500.6 | 125.1 ft - 134.4 ft.: Moderate Weathering. Close Healed Joints - Low To Steep Dip. Close And Very Close Joints - Low To Steep Dip. | 30 |
| 125.1 | Hard Very Light Gray To Light Gray Felsic Gneiss | 100 | | 495.6 | Very Severely Weathered Zone (132.5 ft to 135.6 ft) Probable Core Loss | 52 |
| | | | | 490.6 | | 47 |
| 134.3 | Moderately Hard Medium Gray Mafic Gneiss | 69 | | 485.6 | 134.4 ft - 158.0 ft.: Moderate Weathering. Close To Very Close Healed And Leached Joints - Low To Steep Dip. Close To Very Close Joints - Low To Steep Dip. | 69 |
| 136.6 | Moderately Hard To Hard Very Light To Light Gray Felsic Gneiss | 89 | | 480.6 | 1 Inch, Steep Dip Quartz Vein (141.1 ft - 141.5 ft.) Steep Dip Brecciated(?) Zone (143.0 ft - 143.4 ft.) | |
| | | | | 475.6 | | 13 |
| | | | | 470.6 | | 0 |
| 158.0 | Moderately Hard Green Gray To Dark Green Gray Mafic Gneiss | 88 | | 465.6 | N=50/0" Rapid Fall Of Rods Attempted Split Spoon Sample At 158.0 ft. - No Recovery | 66 |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.O.D. ROCK QUALITY DESIGNATION

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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-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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TEST BORING RECORD

BORING NO. B-161P
 DATE DRILLED 1-17-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO

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| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|----------------|-----------|-------|--|--------|
| 160.0 | Moderately Hard Green Gray To Dark Green Gray Mafic Gneiss | NX | 88 | 465.6 | 158.0 ft to 179.2 ft.: Slight To Moderate Weathering. Close To Very Close Healed Joints - Low To Steep Dip. | 66 |
| | | | 69 | 460.6 | Close To Very Close Joints - Low To Steep Dip (165.1 ft - 169.5 ft.) | |
| 167.7 | Hard Very Light Gray To Light Gray Felsic Gneiss | | 34 | 455.6 | | 52 |
| | | | | 450.6 | Top Of Continuous Rock At 177.8 ft. | 12 |
| 179.2 | Hard Medium Bluish Gray Mafic Gneiss | | 100 | 445.6 | 179.2 ft to 196.8 ft.: Slight Weathering. Close To Very Close Healed And Quartz And Calcite Filled Joints - Medium To Steep Dip. | 100 |
| | | | | 440.6 | 1 Inch Steep Dip Anastomosing Quartz Vein (183.0 - 184.0 ft.) | |
| | | | | 435.6 | Quartz Rich Zone (191.0 ft - 192.0 ft.) | 100 |
| | | | | 430.6 | | |
| 196.8 | Coring Terminated At 196.8 ft. Groundwater At 40.0 ft After 24 Hours No Drilling Water Loss | | | | | |

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BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

TEST BORING RECORD

BORING NO. B-161P
 DATE DRILLED 1-17-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO. Page 177 of 298

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|----------------|-----------|-------|---|--------|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 97.8 ft. | | | | | |
| | | | | 629.6 | | |
| | | | | 624.6 | N=11 Firm Tan And Pink Silty Fine To Coarse Sand | |
| | | | | 619.6 | | |
| | | | | 614.6 | N=16 Firm Grayish - Pink Silty Fine To Coarse Sand | |
| | | | | 609.6 | | |
| | | | | 604.6 | N=18 Firm Pinkish - Tan Silty Fine To Medium Sand | |
| | | | | 599.6 | | |
| 40.0 | | | | 594.6 | N=18 Firm Grayish Tan Very Silty Slightly Micaceous Fine To Medium Sand | |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 4

TEST BORING RECORD

BORING NO. B-162P
 DATE DRILLED 1-22-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|----------|---|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 97.8 ft. | | | | |
| | | 589.6 | | | |
| | | 584.6 | N=24 | Firm Brownish-Gray Silty Fine To Medium Sand | |
| | | 579.6 | | | |
| | | 574.6 | N=81 | Very Dense Gray Silty Micaceous Fine To Medium Sand | |
| | | 569.6 | | | |
| | | 564.6 | N=25 | Firm Grayish Tan Silty Slightly Micaceous Fine To Coarse Sand | |
| | | 559.6 | | | |
| | | 554.6 | N=74/11" | Very Dense Light Gray Silty Fine To Coarse Sand | |
| 80.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-----------------|-------|---|--------|
| 80.0 | Rotary Wash Drilled With Carbide Fishtail To 97.8 ft. | | | | |
| | | 549.6 | | | |
| 85.0 | Partially Weathered Rock | | 544.6 | N=50/2 1/2" No Recovery | |
| | | 539.6 | | | |
| 97.8 | Moderately Hard Very Light Gray Felsic Gneiss | | 534.6 | Carbide Bit Refusal At 97.8 ft. 97.8 ft to 104.5 ft.: Moderate Weathering. Close To Very Close Healed And Occasionally Leached Joints - Low To Steep Dip. | |
| 100.0 | Very Soft To Medium Greenish Gray Mafic Gneiss | NX 44 | | Severely Weathered Zones: 100.0 ft to 103.5 ft. S 113.3 ft to 113.7 ft. M 118.2 ft to 118.6 ft. (Mafic Gneiss) M | 35 |
| 104.5 | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | 529.6 | Joints Indeterminant - Badly Broken Rock (113.0 to 117.9 ft.) M | 52 |
| | | 77 | | 104.5 to 120.7 ft.: Slight Weathering. Very Close Healed And Rarely Leached Joints - Low To Steep Dip. M | 50 |
| | | 77 | 524.6 | | |
| | | | 519.6 | | |
| | | 80 | | | 0 |
| | | | 514.6 | | |
| 120.0 | | 92 | | | 50 |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 4
TEST BORING RECORD

BORING NO. B-162P
 DATE DRILLED 1-22-74
 JOB NO. CH 2920

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

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 3 of 4
TEST BORING RECORD

BORING NO. B-162P
 DATE DRILLED 1-22-74
 JOB NO. CH 2920

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

| DEPTH FT. | DESCRIPTION | CORE % 2 TIME SIZE MIN. ELEV. | REMARKS | R.O.D. |
|--------------|-----------------------------------|-------------------------------------|---------|--------|
| 120.0 | | 514.6 | | |
| 120.7 | Hard To Very Hard Very Light Gray | | | |
| | Coring Abandoned At 120.7 ft. | | | |
| | Rig Moved To B-162AP | | | |
| | Stabilized Groundwater At 8.0 ft. | 509.6 | | |
| | No Drilling Water Loss | | | |

BORING AND SAMPLING MEETS ASTM D-1988 * Felsic Gneiss

CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 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.O.D. ROCK QUALITY DESIGNATION

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.

| DEPTH FT. | DESCRIPTION | CORE % 2 TIME SIZE MIN. ELEV. | REMARKS | R.O.D. |
|--------------|------------------------------------|-------------------------------------|--|--------|
| 0 | | 634.6 | | |
| | 0 ft to 98.3 ft - No Samples Taken | | | |
| | | 549.6 | | |
| | | 544.6 | | |
| | | 539.6 | | |
| 98.3 | Hard Very Light Gray Felsic Gneiss | 534.6 | Carbide Bit Refusal At 98.3 ft. 98.3 ft to 150.0 ft. Moderate To Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 19 |
| | | 529.6 | Probable Location Of 5.3 ft Core Loss - Traces Of Moderate Severely Weathered Mafic Gneiss (100.3 to 105.6 ft.) | 45 |
| | | 524.6 | | 67 |
| | | 519.6 | | 71 |
| | | 514.6 | | 58 |
| 119.9 | | | | 27 |
| 120.0 | | | | |

BORING AND SAMPLING MEETS ASTM D-1988 * Moderately Hard Gray Green

CORE DRILLING MEETS ASTM D-8113 Mafic Gneiss
PENETRATION IS THE NUMBER OF BLOWS OF 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.O.D. ROCK QUALITY DESIGNATION

S = STEEP DIP 60°-90°

TEST BORING RECORD

BORING NO. B-162AP

DATE DRILLED 2-19-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME RISE MIN. | 544.4 ELEV. | REMARKS | 100 |
|--------------|---|-------------------------------|----------------|---|-----|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 27.9 ft. -Fill From 0 to 4.0 ft. | | | | |
| | | | 579.4 | Fill To 4.0 ft. | |
| | | | 574.4 | N=34 Dense Tannish Orange Very Silty Clayey Fine To Coarse Sand With Rock Fragments | |
| | | | 569.4 | | |
| | | | 564.4 | N=28 Very Firm Tannish Gray Silty Slightly Micaceous Fine To Medium Sand | |
| | | | 559.4 | | |
| 27.9 | Hard Very Light Gray Felsic Gneiss | NX 100 | | Carbide Bit Refusal And Top Of Continuous Rock At 27.9 ft. | 100 |
| 29.7 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 554.4 | 27.9 ft to 29.7 ft.: Moderate Weathering, Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 100 |
| | | | 549.4 | 29.7 ft to 48.2 ft.: Very Slight Weathering, Very Close Healed Joints - Low To Steep Dip. | 100 |
| 40.0 | | | 544.4 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

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

Page 1 of 2

TEST BORING RECORD

BORING NO. B-163P
DATE DRILLED 1-4-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO

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| DEPTH FT. | DESCRIPTION | CORE % & TIME RISE MIN. | 544.4 ELEV. | REMARKS | 100 |
|--------------|---|-------------------------------|----------------|---|-----|
| 40.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | | Very Steep Schistose Zones Filled With Quartz, Chlorite And Calcite: Up To 1 Inch Thick - 32.8 to 34.7 ft. 1/4 Inch Thick - 43.6 to 45.6 ft. | 100 |
| | | | 539.4 | | |
| 48.2 | Coring Terminated At 48.2 ft. Groundwater At 11.1 ft On 1-7-74 No Drilling Water Loss | | 534.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 2

TEST BORING RECORD

BORING NO. B-163P
DATE DRILLED 1-4-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | N |
|-----------|---|---------------------------|-------|---|---|
| 0 | Rotary Wash-Drilled With Carbide Fishtail To 40.7 ft. | | 594.2 | | |
| | | | 589.2 | | |
| | | N=27 | 584.2 | Firm Brown Gray Very Silty Fine To Coarse Sand | |
| | | | 579.2 | | |
| | | N=19 | 574.2 | Very Stiff Tan Gray Micaceous Fine To Medium Sandy Silt | |
| | | | 569.2 | | |
| | | N=55 | 564.2 | Hard Tan Fine To Medium Sandy Silt | |
| | | | 559.2 | | |
| 38.6 | Partially Weathered Rock | | 554.2 | N=50/1 1/2" No Recovery | |
| 40.0 | | | | | |

Page 1 of 2

TEST BORING RECORD

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

BORING NO. B-164P
 DATE DRILLED 1-3-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | N |
|-----------|--|---------------------------|-------|---|-----|
| 40.0 | Partially Weathered Rock | | 554.2 | | |
| 40.7 | Moderately Hard To Medium Very Light Gray Felsic Gneiss | | | Carbide Bit Refusal At 40.7 ft. | |
| 43.9 | Hard To Very Hard Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 549.2 | Top Of Continuous Rock At 43.9 ft. Moderate Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 71 |
| | | | 544.2 | | |
| | | 100 | 539.2 | 43.9 ft to 66.0 ft.: Slight To Very Slight Weathering. Very Close Healed Joints, Rarely Quartz or Calcite Filled. Low To Steep Dip. | 100 |
| | | | 534.2 | Mafic Xenoliths: 44.2 ft. 48.2 ft. 50.1 ft. Lesched Vertical Quartz Lens Up To 1 1/2 Inches Thick (58.4 ft to 59.6 ft.) | |
| | | 100 | 529.2 | | 100 |
| 66.0 | Coring Terminated At 66.0 ft. Groundwater At 21.9 ft After 24 Hours No Drilling Water Loss | | | | |

Page 2 of 2

TEST BORING RECORD

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

BORING NO. B-164P
 DATE DRILLED 1-2-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 578.2 | | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| | | CORE % & TIME SIZE MIN. | ELEV. | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 27.1 ft. | | 573.2 | | |
| | | | 568.2 | N=13 Firm Tan Gray Micaceous Very Silty Fine To Coarse Sand | |
| 11.0 | Partially Weathered Rock | | 563.2 | | |
| | | | 558.2 | N=50/1" No Recovery | |
| | | | 553.2 | | |
| 27.1 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 96 | 548.2 | Carbide Bit Refusal And Top Of Continuous Rock At 27.1 ft. 27.1 ft to 49.9 ft: Slight To Very Slight Weathering. Very Closed Healed Joints - Low To Steep Dip. | 84 |
| | | | 543.2 | Slight Leaching Along Healed Joints (27.1 to 43.0 ft.) Moderately Weathered Zone (27.1 ft to 28.3 ft.) | 100 |
| 40.0 | | 100 | 538.2 | | |

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.

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-165P

DATE DRILLED 4-19-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 538.2 | | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|---|--------|
| | | CORE % & TIME SIZE MIN. | ELEV. | | |
| 40.0 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 533.2 | Leached, Medium Dip, Schistose Zone (40.3 ft.) | |
| 49.9 | Coring Terminated At 49.9 ft. Groundwater At 6.3 ft. At Time Of Boring | | 528.2 | Mafic Gneiss (47.4 ft to 47.7 ft.) | 100 |

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.

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-165P

DATE DRILLED 4-19-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|---|--------|
| | Rotary Wash Drilled With Carbide Fishtail To 50.5 ft. | | 609.8 | | |
| | | | 604.8 | | |
| | | N=14 | 599.8 | Tan Pink Slightly Clayey Fine To Medium Sandy Silt With Quartz Rock Fragments | |
| | | | 594.8 | | |
| | | N=23 | 589.8 | No Recovery | |
| | | | 584.8 | | |
| | | N=30 | 579.8 | Tan Gray With Black Seams Slightly Micaceous Fine To Medium Sandy Silt | |
| | | | 574.8 | | |
| 37.7 | Partially Weathered Rock | | 569.8 | Partially Weathered Rock That Becomes Gray Tan Silty Fine To Medium Sand When Sampled | |
| 40.0 | | | | | |

Page 1 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1998
CORE DRILLING MEETS ASTM D-8152
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

BORING NO. B-166P
DATE DRILLED 1-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|--|--------|
| 40.0 | Partially Weathered Rock | | 569.8 | | |
| | | | 564.8 | | |
| | | N=50/1" | 559.8 | No Recovery | |
| 50.5 | Hard Very Light Gray Felsic Gneiss | | 554.8 | Carbide Bit Refusal And Top Of Continuous Rock At 50.5 ft. 50.5 ft - 59.1 ft.: Moderate To Slight Weathering. Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip - Rarely Leached. | 64 |
| | | NX 82 | | | |
| 59.1 | Very Hard Light Bluish Gray Felsic Gneiss | | 549.8 | Core Loss (57.0 ft to 58.3 ft.) - Soil Remnants - Silty Fine To Coarse Sand | 91 |
| | | 100 | | 59.1 ft to 80.4 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Small Mafic Xenoliths Throughout. | |
| | | 100 | 544.8 | | |
| | | 100 | 539.8 | | 100 |
| | | 100 | 534.8 | Low Dip Schistose Zone (71.6 ft.) | |
| 80.4 | | | 529.8 | | 100 |

Page 2 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1998 • Coring Terminated At 80.4 ft.
CORE DRILLING MEETS ASTM D-8152 Groundwater At 35.0 ft At 24 Hours
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER No Drilling Water
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT. LOSS
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°

BORING NO. B-166P
DATE DRILLED 1-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 606.6 | | REMARKS | R.O.D. |
|--------------|--|---------------------------------|-------|---|--------|
| | | CORE NO. & TIME SIZE MIN. | ELEV. | | |
| 0 | Rotary Wash Drilled With Carbide Fishtail To 78.5 ft. | | | | |
| | | | 601.6 | | |
| | | N=22 | 596.6 | Firm Brownish Pink Slightly Micaceous Very Silty Fine To Medium Sand | |
| | | | 591.6 | | |
| | | N=23 | 586.6 | Very Stiff Orange And Gray Slightly Micaceous Fine To Medium Sandy Silt | |
| | | | 581.6 | | |
| | | N=19 | 576.6 | Firm Tan And Tannish Pink Slightly Micaceous Very Silty Fine To Medium Sand | |
| | | | 571.6 | | |
| 40.0 | | N=18 | 566.6 | Firm Grayish Tan Slightly Micaceous Very Silty Fine To Medium Sand | |

| DEPTH FT. | DESCRIPTION | 566.6 | | REMARKS | R.O.D. |
|--------------|---|---------------------------------|-------|---|--------|
| | | CORE NO. & TIME SIZE MIN. | ELEV. | | |
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 78.5 ft. | | | | |
| | | | 561.6 | | |
| | | N=24 | 556.6 | Very Stiff Tannish Gray Micaceous Slightly Fine Sandy Silt | |
| | | | | NW Casing To 50.0 ft. | |
| | | | 551.6 | | |
| 58.6 | Partially Weathered Rock | N=82/10" | 548.6 | Partially Weathered Rock That Becomes Grayish Tan Slightly Micaceous Silty Fine To Coarse Sand When Sampled | |
| | | | 541.6 | | |
| | | N=50/4 1/2" | 538.6 | 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=50/2 1/2" No Recovery Carbide Bit Refusal And Top Of S Continuous Rock At 78.5 ft. | 96 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8119
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 64 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 3
TEST BORING RECORD

BORING NO. B-167P
DATE DRILLED 1-23-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO. Page 184 of 298

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8119
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 64 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
STANDARD PENETRATION LOSS OF DRILLING WATER
R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 3
TEST BORING RECORD

BORING NO. B-167P
DATE DRILLED 1-23-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|----------------------|--------------|-------|--|--------|
| 80.0 | Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | | 521.6 | 78.5 ft to 84.8 ft.: Slight Weathering. Very Close Healed Joints - Medium To Steep Dip. | 95 |
| | | | | 516.8 | 84.8 ft to 97.4 ft.: Very Slight Weathering. Very Close Healed Joints - Medium To Steep Dip. | 100 |
| | | | | 511.6 | Mafic Gneiss Zone With Very Close Leached Healed Joints (87.4 ft to 87.6 ft.) 2 Inch Schistose Zone With Quartz And Chlorite - Steep Dip (91.0 ft.) Slitkensided Surfaces - Medium Dip: 89.3 ft. 92.8 ft. | 100 |
| 97.4 | | | | | | |
| | Coring Terminated At 97.4 ft. Groundwater At 31.2 ft After 24 Hours Drilling Water Loss At 80.0 ft. | | | 506.6 | | |

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. | |
|--------------|--|----------------------|--------------|-------|--|--------|--|
| 0 | Rotary Wash Drilled With Carbide Fishtail To 91.9 ft. | | | 586.8 | | | |
| | | | | 581.8 | N=15 Stiff Tan Red Micaceous Fine To Medium Sandy Silt | | |
| | | | | 576.8 | | | |
| | | | | 571.8 | N=10 Loose Green And Tan Red Micaceous Very Silty Fine To Medium Sand With Small Quartz Fragments | | |
| | | | | 566.8 | | | |
| | | | | 561.8 | N=14 No Recovery N=16 Firm Gray Tan Micaceous Very Silty Fine To Medium Sand | | |
| | | | | 556.8 | | | |
| | | | | 551.8 | N=21 Firm Gray Tan Slightly Micaceous Silty Fine To Coarse Sand | | |
| 40.0 | | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 3 of 3
TEST BORING RECORD

BORING NO. B-167P
DATE DRILLED 1-23-74
JOB NO. CH 2920

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30-40°
S = STEEP DIP 40-90°

LAW ENGINEERING TESTING CO. Page 185 of 298

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

Page 1 of 4
TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

ROCK JOINT:
L = LOW DIP 0-30°
M = MED. DIP 30-40°
S = STEEP DIP 40-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|--|--------|
| 40.0 | Rotary Wash Drilled With Carbide Fishtail To 91.9 ft. | | 546.8 | | |
| | | | 541.8 | N=35 Dense Gray Tan Slightly Micaceous Silty Fine To Coarse Sand | |
| | | | 536.8 | | |
| 58.0 | Partially Weathered Rock | | 531.8 | N=50/3" Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine To Coarse Sand When Sampled | |
| | | | 526.8 | | |
| | | | 521.8 | N=50/4" Partially Weathered Rock That Becomes Gray Tan Slightly Micaceous Silty Fine To Coarse Sand When Sampled | |
| | | | 516.8 | | |
| | | | 511.8 | N=50/3" No Recovery | |
| 80.0 | | | | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|---|--------|
| 80.0 | Partially Weathered Rock | | 506.8 | | |
| | | | 501.8 | N=50/4" No Recovery | |
| 91.9 | Hard Very Light Tannish Gray Felsic Gneiss | NX 100 | 496.8 | Carbide Bit Refusal At 91.9 ft. 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. | 81 |
| 97.9 | Hard Medium Light Gray Mafic Gneiss | | 491.8 | | |
| 98.5 | Hard To Moderately Hard Very Light Tannish Gray Felsic Gneiss | | | 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 | | | 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 |
| 102.3 | Core Loss Silt Traces - Grayish Tan Very Silty Slightly Micaceous Fine To Coarse Sand | 44 | 486.8 | | |
| 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-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 4
TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 3 of 4
TEST BORING RECORD

BORING NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R. Q. D. |
|--------------|--|-------------------------------|-------|--|----------|
| 120.0 | Moderately Hard To Hard Very Light Tannish Gray To Very Light Gray Felsic Gneiss | NX 61 | 566.8 | | 30 |
| 126.5 | Medium To Hard Brown And Light Greenish Gray Mafic Gneiss With Some Soil Zones | 83 | 561.8 | Severe To Moderate Weathering (126.5 ft to 127.2 ft.) 127.2 ft to 127.8 ft.: Slight Weathering. Very Close Calcite Coated Joints - Low To Steep Dip. | 45 |
| 133.0 | Hard And Moderately Hard Very Light Pinkish Gray Felsic Gneiss | 100 | 556.8 | 127.8 ft. to 131.6 ft. Moderate And Complete Weathering. Very Close Leached Joints - Low To Steep Dip. | 63 |
| 137.5 | Very Hard White Milky Quartz | 100 | 551.8 | 131.6 ft. to 132.7 ft.: Slight Weathering Very Close Calcite Coated Joints Low To Steep Dip. | 100 |
| 138.1 | Hard Light Bluish Gray Felsic Gneiss | 100 | 546.8 | Moderately Severe Weathering At Mafic/Felsic Contact (133.0 ft.) Top Of Continuous Rock At 131.6 ft. 131.6 ft. to 143.1 ft.: Slight Weathering. Very Close Epidote Healed Joints - Low To Steep Dip. Slight Leaching Along Filled Joints. | 96 |
| 157.7 | Coring Terminated At 157.7 ft. No Drilling Water Loss | 100 | 541.8 | Moderately Severely Weathered Zone (135.3 ft to 136.2 ft.) 143.1 ft to 157.7 ft.: Very Slight Weathering. Very Close Epidote Healed Joints - Low To Steep Dip. | 100 |
| | | | 536.8 | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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 NO. B-168P
DATE DRILLED 1-18-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO Page 187 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R. Q. D. |
|--------------|--|-------------------------------|-------|---------|----------|
| 0 | Stiff Tan Red To Tan Gray Fine Sandy Micaceous Silt | | 607.4 | | N=12 |
| | | | 602.4 | | N=12 |
| 15.0 | Very Stiff Gray Tan Fine Sandy Micaceous Silt | | 597.4 | | N=21 |
| 20.0 | Stiff Brown Tan To Orange Tan Fine Sandy Micaceous Silt | | 592.4 | | N=12 |
| | | | 587.4 | | N=14 |
| 30.0 | Very Stiff Orange Tan To Tan Brown Fine Sandy Micaceous Silt | | 582.4 | | N=17 |
| | | | 577.4 | | N=20 |
| 40.0 | | | 572.4 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER 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°

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TEST BORING RECORD

BORING NO. B-170P
DATE DRILLED 2-21-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R Q D |
|--------------|---|---------------------------------|-------|---------|-------------|
| 40.0 | Hard To Hard Very Light Gray To Light Gray Felsic Gneiss | NX 100 | 505.1 | | 100 |
| 48.2 | Coring Terminated At 48.2 ft. Groundwater At 23.3 ft At Time Of Boring Stabilized Groundwater At 21.6 ft. No Drilling Water Loss | | 500.1 | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R Q D |
|--------------|---|---------------------------------|-------|---|-------------|
| 0 | Drilled To Refusal - 17.8 ft. | | 587.4 | | |
| | | | 582.4 | | |
| | | | 577.4 | | |
| 17.8 | Very Hard Light Bluish Gray Felsic Gneiss | NX 95 | 572.4 | Carbide Bit Refusal And Top Of Continuous Rock At 17.8 ft. 17.8 ft to 38.4 ft.: Slight To Very Slight Weathering. Close Healed Joints - Low To Steep Dip. | 85 |
| | | 100 | 567.4 | Steep Dip Pegmatite Vein With Quartz And Orthoclase (17.8 to 18.4 ft.) | |
| | | 100 | 562.4 | Steep Dip, Parallel, Quartz And Chlorite Veins With Intergrown Contact Zone (27.7 to 29.0 ft.) | 95 |
| | | 100 | 557.4 | Steep Dip Quartz Veins: 29.5 to 30.3 ft. 31.2 to 31.6 ft. | |
| | | | 552.4 | Steep Dip - Slickensided Surface: 32.0 ft. 33.0 ft. | |
| 38.4 | Coring Terminated At 38.4 ft. Groundwater At 11.0 ft At Time Of * | | | Leached Pegmatite Vein Of Quartz And Muscovite (34.5 ft.) | 92 |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 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

TEST BORING RECORD

BORING NO. B-185
DATE DRILLED 2-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 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

*Boring Stabilized Groundwater At 11.9 ft.

TEST BORING RECORD

No Drilling Water Loss
BORING NO. B-186P
DATE DRILLED 2-13-74
JOB NO. CH 2920

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

Page 1 of 1

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 597.7 ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|----------------|---------|--------|
| 0 | Drilled To Carbide Refusal At 40.0 ft. | | | | |
| | | | 592.7 | | |
| | | | 587.7 | | |
| | | | 582.7 | | |
| | | | 577.7 | | |
| | | | 572.7 | | |
| | | | 567.7 | | |
| | | | 562.7 | | |
| 40.0 | | | 557.7 | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 557.7 ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|----------------|---|--------|
| 40.0 | Medium Dark Greenish Gray Mafic Gneiss | NX 91 | | Top Of Continuous Rock At 40.9 ft. | 73 |
| 40.9 | Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | | 552.7 | 40.0 ft to 59.4 ft. Very Slight Weathering. Close Healed Joints - Low To Steep Dip. | 100 |
| | | 100 | | Quartz Veins - Steep Dip - 43.0 ft to 43.5 ft. 48.9 ft to 49.5 ft. 56.0 ft to 56.5 ft. | 100 |
| | | 100 | 547.7 | Slightly Leached Quartz - Epidote Vein (41.6 ft.) | 100 |
| | | 100 | 542.7 | 1 Inch, Steep Dip Schistose Zone With Epidote, Chlorite And Calcite (50.8 - 51.5 ft.) | 100 |
| 59.4 | Coring Terminated At 59.4 ft. | | 537.7 | Core Losses At 40.7 ft to 41.0 ft. With Moderate Weathering At 40.0 ft to 40.7 ft. | |
| | Groundwater At 10.8 ft At Time Of Boring | | | | |
| | Stabilized Groundwater At 12.3 ft. | | | | |
| | No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-187P
DATE DRILLED 2-15-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-187P
DATE DRILLED 2-15-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

585.2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.Q. |
|--------------|---|---------------------------------|-------|---|--------|
| 40.0 | Moderately Hard To Soft Very Light Gray Sericitic Felsic Gneiss | NX 100 | | Top Of Continuous Rock At 42.2 ft. 38.4 to 52.4 ft. | 49 |
| 42.2 | Very Hard Light Bluish Gray Sericitic Felsic Gneiss | | 580.2 | Slight To Very Slight Weathering. Very Close Healed Joints With Chlorite And Calcite - Low To Steep Dip. | |
| | | 100 | | Close Joints - Low To Medium Dip (38.4 ft to 42.1 ft.) Moderately Severely To Severely Weathered Zones: 38.9 ft to 39.4 ft. 40.4 ft to 42.2 ft. | 100 |
| | | | 575.2 | | |
| 52.4 | Coring Terminated At 52.4 ft. | | 570.2 | | |
| | Groundwater At 37.2 ft At Time Of Boring | | | | |
| | Stabilized Groundwater At 36.2 ft. | | | | |
| | No Drilling Water Loss | | | | |

605.3

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.Q. |
|--------------|---|---------------------------------|-------|---------|---------|
| 0 | Firm Tan Pink Micaceous Fine To Medium Very Sandy Silt | | 600.3 | | N=6 |
| 7.5 | Stiff Pink Brown Micaceous Fine To Coarse Very Sandy Silt With Rock Fragments | | 595.3 | | N=9 |
| 14.0 | Very Stiff Gray Micaceous Fine To Coarse Very Sandy Silt | | 590.3 | | N=17 |
| 19.0 | Firm Gray Micaceous Very Silty Fine To Coarse Sand | | 585.3 | | N=13 |
| | | | 580.3 | | N=15 |
| | | | 575.3 | | N=15 |
| | | | 570.3 | | N=30 |
| 39.0 | Partially Weathered Rock - No Recovery | | 565.3 | | N=50/31 |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.Q. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD

BORING NO. B-212
DATE DRILLED 4-17-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.Q. ROCK QUALITY DESIGNATION

Page 1 of 3
TEST BORING RECORD

BORING NO. B-213
DATE DRILLED 3-28-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.O.D. |
|--------------|--|-------------------------|-------|--|--------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 40.0 | Partially Weathered Rock | | 565.3 | | |
| | | | 560.3 | N=50/1" No Recovery | |
| | | | 555.3 | N=50/1" No Recovery | |
| | | | 550.3 | N=50/2" No Recovery | |
| | | | 545.3 | N=50/0" No Recovery | |
| 62.7 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 540.3 | Carbide Bit Refusal And Top Of Continuous Rock At 62.7 ft. 62.7 ft to 81.7 ft.: Slight To Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. ◀M Quartz Lens (65.7 to 66.0 ft.) Moderately Severely Weathered Zone Of Mafic (Schistose) Gneiss (66.4 - 66.6 ft.) 1/2 Inch Medium Dip Leached Quartz Vein (69.6 ft.) 1/4 Inch Steep Dip Leached Quartz Vein (71.6 to 72.0 ft.) ◀L 1/4 Inch Steep Dip Quartz Vein With Schistose Contacts (76.4 to 78.8 ft.) Badly Broken Rock (80.9 to 81.7 ft) | 100 |
| | | 100 | 535.3 | | 96 |
| | | 100 | 530.3 | | 100 |
| | | 100 | 525.3 | | 100 |

Page 2 of 3

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1556
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0-30°

M = MED. DIP 30-60°

S = STEEP DIP 60-90°

BORING NO. B-213

DATE DRILLED 3-28-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.O.D. |
|--------------|--|-------------------------|-------|---------|--------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 80.0 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 525.3 | | 100 |
| 81.7 | Coring Terminated At 81.7 ft. Groundwater At 49.2 At Time Of Boring Stabilized Groundwater At 25.3 ft. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1556

CORE DRILLING MEETS ASTM D-8113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0-30°

M = MED. DIP 30-60°

S = STEEP DIP 60-90°

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TEST BORING RECORD

BORING NO. B-213

DATE DRILLED 3-28-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------------------|---|--|-----------------------------------|
| 0 | Very Stiff Red Fine To Coarse Sandy Very Silty Clay | | 588.5 | | |
| 6.0 | Firm Tan Brown Micaceous Silty Fine To Coarse Sand | | 578.5 | N=22 | |
| 13.2 | Partially Weathered Rock | | 573.5 | N=28 N=50/6" | |
| 18.2 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 78 100 30 0 100 100 | 568.5 563.5 558.5 553.5 548.5 | Carbide Bit Refusal At 18.2 ft. 18.2 ft to 48.9 ft.: Slight To Very Slight Weathering. Very Close Healed And Occasionally Leached Joints - Low To Steep Dip. Scattered Small Mafic Xenoliths Soil Zone (24.6 ft to 26.6 ft.) Top Of Continuous Rock At 26.0 ft. | 31 100 0 0 100 100 |
| 40.0 | | 100 | 548.5 | | 100 |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

BORING NO. B-214
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---------|--------|
| 40.0 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | 543.5 | | 100 |
| 48.9 | Coring Terminated At 48.9 ft. Groundwater At 8.0 ft At Time Of Boring Stabilized Groundwater At 6.9 ft. No Drilling Water Loss | 100 | 538.5 | | 100 |

Page 2 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

BORING NO. B-214
DATE DRILLED 4-3-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.O.D. |
|--------------|--|-------------------------|-------|--|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 0 | Drilled To Refusal At 32.4 ft. | | 590.8 | | |
| | | | 585.8 | | |
| | | | 580.8 | | |
| | | | 575.8 | | |
| | | | 570.8 | | |
| | | | 565.8 | | |
| | | | 560.8 | | |
| 32.4 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 555.8 | Carbide Bit Refusal And Top Of Continuous Rock At 32.4 ft. 32.4 ft. to 52.8 ft.: Slight To Very Slight Weathering. Very Close Healed And Rarely Leached Joints - Low To Steep Dip. Scattered Small Mafic Xenoliths Quartz Vein (32.4 ft to 32.6 ft.) Close Joints, - Low To Steep Dip * | 100 |
| | | 100 | | | 92 |
| | | 100 | | | 89 |
| 40.0 | | 98 | 550.8 | | 86 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-6118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

TEST BORING RECORD

BORING NO. B-216
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | % R.O.D. |
|--------------|--|-------------------------|-------|---|-------------|
| | | NO. & TIME SIZE MIN. | ELEV. | | |
| 40.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 98 | | | 86 |
| | | 100 | 545.8 | | 91 |
| | | | 540.8 | | |
| 52.8 | Coring Terminated At 52.8 ft. Groundwater At 23.8 ft At Time Of Boring Stabilized Groundwater At 15.3 ft. No Drilling Water Loss | 100 | 535.8 | Very Thin Quartz-Chlorite Filled Brecciated Zone - Steep Dip (50.6 ft.) | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-6118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

TEST BORING RECORD

BORING NO. B-216
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 0 | Partially Weathered Rock That Becomes Brown Red Fine To Medium Sandy Very Silty Clay | | 590.0 | | |
| | | | 585.0 | N=50/6" | |
| 7.0 | Partially Weathered Rock That Becomes Tan Gray To Gray Brown Micaceous Silty Fine To Coarse Sand With Rock Fragments When Sampled | | 580.0 | N=50/3" | |
| | | | 575.0 | N=50/6" | |
| 17.2 | Moderately Hard Very Light Gray Felsic Gneiss | | | Carbide Bit Refusal At 17.2 ft. Very Close Healed Joints With Chlorite And Calcite - Low To Steep Dip (17.2 to 18.9 ft.) | |
| 18.9 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 570.0 | 17.2 to 18.9 ft.: Moderate Weathering. Badly Broken Rock. Top Of Continuous Rock At 18.9 ft. | 75 |
| | | | 565.0 | Very Slight Weathering (18.9 to 38.4 ft.) | 100 |
| | | | 560.0 | Quartz And Quartzite With Stringers Of Biotite (33.5 to 35.7 ft) Slight Leaching (33.6 to 34.0 ft.) | 100 |
| | | | 555.0 | | 100 |
| 38.4 | Coring Terminated At 38.4 ft. Stabilized Groundwater At 9.7 ft. * | | 550.0 | | |

Page 1 of 1

TEST BORING RECORD

BORING NO. B-217
 DATE DRILLED 4-3-74
 JOB NO. CH 2920

BORING AND SAMPLING MEETS ASTM D-1586 * No Drilling Water Loss
 CORE DRILLING MEETS ASTM D-1519

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

LAW ENGINEERING TESTING CO. Page 195 of 298

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 0 | Drilled To Carbide Refusal At 90.5 ft. | | 625.2 | | |
| | | | 620.2 | | |
| 90.5 | Moderately Hard To Medium Light Olive Gray Mafic Gneiss | | 535.2 | Carbide Bit Refusal At 90.5 ft. 90.5 ft to 96.9 ft.: Moderate To Moderately Severe Weathering. Very Close To Close Joints - Low To Steep Dip. | 0 |
| | | NX 47 | 530.2 | Top Of Continuous Rock At 98.0 ft. | |
| 96.9 | Hard To Very Hard Medium Light Gray Mafic Gneiss | 69 | 525.2 | 96.9 ft to 118.5 ft.: Slight To Very Slight Weathering. Very Close To Close Healed And Chlorite, Quartz And Calcite Filled Joints - Low To Steep Dip | 31 |
| | | 98 | 520.2 | Leached Zone With Limonite Residue (99.7 ft to 100.4 ft.) | 95 |
| | | | 520.2 | Slicksided Surface - Steep Dip (113.8 ft.) | 99 |
| | | 99 | 515.2 | | |
| | | | 510.2 | | |
| | | 100 | 505.2 | | 100 |
| 118.5 | Coring Terminated At 118.5 ft. * | | | | |

Page 1 of 1

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586 * Groundwater At 43.4 ft At Time Of Boring

CORE DRILLING MEETS ASTM D-1519 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.

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 NO. B-218

DATE DRILLED 3-26-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|---|--------------------------------------|---|--------|
| 0 | Drilled To Refusal At 28.1 ft. | 598.6 | | |
| | | 593.6 | | |
| | | 588.6 | | |
| | | 583.6 | | |
| | | 578.6 | | |
| | | 573.6 | | |
| 28.1 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 93 568.6 | Carbide Bit Refusal And Top Of Continuous Rock At 28.1 ft. 28.1 ft to 47.8 ft: L Slight To Very Slight Weathering. Very Close Healed, Filled And Slightly Leached Joints - Low To Steep Dip. Scattered Small Fine Grained And Malic Xenoliths. Leached Quartz - Chlorite Stringers (28.1 to 29.4 ft.) Vertical Brecciated Zone (34.9 ft.) Moderately Weathered Zone With Very Close Low Dip Joints (34.8 ft to 35.2 ft.) | 70 |
| | | 99 563.6 | | 90 |
| 40.0 | | 95 558.6 | | 95 |

Page 1 of 2

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|---|--------------------------------------|---------|--------|
| 40.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 95 553.6 | | 95 |
| | | 100 548.6 | | 100 |
| 47.8 | Coring Terminated At 47.8 ft. Groundwater At 22.1 ft At Time Of Boring Stabilized Groundwater At 11.7 ft. No Drilling Water Loss | | | |

Page 2 of 2

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

TEST BORING RECORD

BORING NO. B-219

DATE DRILLED 4-1-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

TEST BORING RECORD

BORING NO. B-219

DATE DRILLED 4-1-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.O.D. |
|--------------|---|-------------------------------------|---------|-------------|
| 0 | Very Stiff Brown Red Micaceous Fine To Coarse Sandy Very Silty Clay | | | |
| | | 596.1 | N=21 | |
| 12.0 | Firm And Stiff Brown Tan Fine Sandy Micaceous Silt | 591.1 | N=17 | |
| | | 586.1 | N=10 | |
| | | 581.1 | N=5 | |
| 25.0 | Very Dense To Dense Tan Gray Micaceous Silty Fine To Coarse Sand | 576.1 | N=8 | |
| | | 571.1 | N=68 | |
| | | 566.1 | N=31 | |
| 36.0 | Firm Green Tan Micaceous Very Silty Fine To Coarse Sand | 561.1 | N=24 | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | REMARKS | % R.O.D. |
|--------------|--|-------------------------------------|--|-------------|
| 40.0 | Firm Green Tan Micaceous Very Silty Fine To Coarse Sand | | | |
| | | 556.1 | N=24 No Recovery | |
| | | 551.1 | N=41 No Recovery | |
| 53.5 | Partially Weathered Rock That Becomes Green Tan Micaceous Fine To Medium Sandy Silt To Very Silty Fine To Coarse Sand When Sampled | 546.1 | N=50/6" | |
| | | 541.1 | N=50/2 1/2" | |
| 61.1 | Hard Medium Gray Mafic Gneiss | | Carbide Bit Refusal And Top Of Continuous Rock At 61.1 ft. | |
| 64.0 | Hard Light Gray Felsic Gneiss | NX 100 536.1 | 61.1 to 80.1 ft.: Very Slight Weathering. Very Close Healed Joints With Chlorite - Low To Steep Dip. | 100 |
| | | 100 531.1 | Schistose Zones Up To 1 Inch Thick With Calcite, Chlorite Quartz And Rare Epidote - Steep Dip: 61.1 ft. 62.0 ft. 68.2 ft. 73.7 ft. 74.4 ft. | 100 |
| | | 526.1 | Irregular Pegmatite Vein (70.4 ft.) | 100 |
| 80.1 | | 100 521.1 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 2
TEST BORING RECORD
 B-220
 BORING NO. 8-220
 DATE DRILLED 4-2-74
 JOB NO. CH 2920

L = LOW DIP 0-30°
 M = MED. DIP 30-60°
 S = STEEP DIP 60-90°
 LAW ENGINEERING TESTING CO

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 2
TEST BORING RECORD
 B-220
 BORING NO. 8-220
 DATE DRILLED 4-2-74
 JOB NO. CH 2920

L = LOW DIP 0-30°
 M = MED. DIP 30-60°
 S = STEEP DIP 60-90°
 LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | 605.8 ELEV. | REMARKS | R.O.D. |
|-----------|---|-----------------|----------------|--|--------|
| 0 | Drilled To Refusal At 19.7 ft. | | 600.8 | | |
| | | | 595.8 | | |
| | | | 590.8 | | |
| | | | 585.8 | | |
| 19.7 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 92 | 580.8 | Carbide Bit Refusal And Top Of Continuous Rock At 19.7 ft. Close Joints - Low To Steep Dip (19.7 ft to 28.0 ft.) Complete Drilling Water Loss | 71 |
| | | | 575.8 | 19.7 ft to 47.9 ft.: Slight To Very Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. Moderately Weathered Zones: 20.7 ft to 21.4 ft. 37.0 to 37.6 ft. | 82 |
| | | 90 | 570.8 | Very Soft, Severely Weathered Zone Probable Location Of 0.8 ft Loss (34.8 ft to 36.1 ft.) | |
| | | | 565.8 | 1 1/2 Inch Medium Dip, Quartz Filled And Leached Schistose Zone (37.1 ft) | 93 |
| 40.0 | | 100 | | | |

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME | 565.8 ELEV. | REMARKS | R.O.D. |
|-----------|--|-----------------|----------------|--|--------|
| 40.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 560.8 | | 91 |
| 47.9 | Coring Terminated At 47.9 ft. Groundwater At 25.3 ft At Time Of Boring Stabilized Groundwater At 28.2 ft. Drilling Water Loss At 23.0 ft. | | 555.8 | Moderately Weathered Zone (47.0 to 47.6 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1586
(CORE DRILLING MEETS ASTM D-811)
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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

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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-811)
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.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-221
DATE DRILLED 4-5-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | | REMARKS | R.Q.D. |
|--------------|---|---------------------------------------|-------|--|--------|
| | | | 583.3 | | |
| 0 | Stiff Orange Tan Micaceous Clayey Fine To Coarse Very Sandy Silt | | 578.3 | N=12 | |
| 7.0 | Loose Tan Gray Micaceous Very Silty Fine To Coarse Sand | | 573.3 | N=7 | |
| 10.5 | Stiff Tan Gray Micaceous Fine To Coarse Very Sandy Silt | | 568.3 | N=12 | |
| 16.0 | Dense Brown Gray Micaceous Silty Fine To Coarse Sand | | 563.3 | N=32 | |
| 22.0 | Partially Weathered Rock That Becomes Brown Gray Micaceous Silty Fine To Coarse Sand When Sampled | | 558.3 | N=50/6" | |
| 27.0 | Partially Weathered Rock That Becomes* | | 553.3 | N=50/4" | |
| 28.2 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 548.3 | Carbide Bit Refusal And Top Of Continuous Rock At 28.2 ft. 28.2 ft to 47.7 ft.: Very Slight Weathering. Very Close To Close Healed Joints With Calcite - Low To Steep Dip. | 100 |
| 40.0 | | 100 | 543.3 | Steep Dip, Irregular Schistose Quartz- Calcite Vein, Slightly Leached (29.1 to 29.8 ft.) Fine Grained Xenolith (36.0 ft.) Schistose Zones: Medium Dip - 30.5 to 30.9 ft. Medium Dip - 34.5 to 34.7 ft. Steep Dip - 38.1 to 38.6 ft. | 100 |

BORING AND SAMPLING MEETS ASTM D-1586 * Green Gray Micaceous Silty Fine To
Coarse Sand With Rock Fragments

Page 1 of 2

TEST BORING RECORD

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

BORING NO. B-222

DATE DRILLED 4-8-74

JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | | REMARKS | R.Q.D. |
|--------------|--|---------------------------------------|-------|--|--------|
| | | | 543.3 | | |
| 40.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 538.3 | Slickensided Surface - Medium Dip (40.3 ft.) | 100 |
| 47.7 | Coring Terminated At 47.7 ft. Groundwater At 5.5 ft At Time Of Boring Stabilized Groundwater At 6.6 ft. No Drilling Water Loss | | 533.3 | Mafic Gneiss With Medium Dip Upper Contact (47.5 to 47.7 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1586

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TEST BORING RECORD

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

BORING NO. B-222

DATE DRILLED 4-8-74

JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 650.0 ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|----------------|---|--------|
| 0 | Drilled To Refusal At 68.9 ft. | | | | |
| | | | 645.0 | | |
| | | | 600.0 | | |
| | | | 595.0 | | |
| | | | 590.0 | | |
| | | | 585.0 | | |
| 68.9 | Moderately Hard Very Light Gray Felsic Gneiss | NX 85 | 580.0 | Carbide Bit Refusal At 68.9 ft. 68.9 ft to 74.3 ft: Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 37 |
| 74.3 | Hard To Very Hard Very Light Gray Felsic Gneiss | | 575.0 | 1/4 Inch, Steep Dip Brecciated Zone (71.2 ft.) Top Of Continuous Rock At 74.3 ft. | |
| | | | | Very Soft, Very Severely Weathered Zone - 1.0 ft. Core Loss (72.6 to 74.3 ft.) | |
| 80.0 | | 100 | 570.0 | | 100 |

36.1

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 570.0 ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|----------------|---|--------|
| 80.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | | 74.3 ft to 96.9 ft: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 100 |
| | | | 565.0 | 3 Inch, Steeply Dipping Biotite Rich, Leached Zone With Chlorite At Upper Contact (78.5 ft.) | |
| | | | 560.0 | | |
| | | 100 | 555.0 | | 100 |
| 96.9 | Coring Terminated At 96.9 ft. Groundwater At 30.5 ft At Time Of Boring Stabilized Groundwater At 36.1 ft. No Drilling Water Loss | | | | |

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TEST BORING RECORD

BORING NO. B-223
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO Page 200 of 298

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.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 AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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

BORING NO. B-223
DATE DRILLED 3-26-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|-------------------------------|-------|---|--------|
| 0 | Drilled To Refusal At 54.1 ft. | | 624.6 | | |
| | | | 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 | | 84 |
| | | 100 | 559.6 | Scattered Small Fine Grained Xenoliths - Core Loss (60.9 ft to 61.4 ft.) | 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-1864
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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 1

TEST BORING RECORD

BORING NO. B-224

DATE DRILLED 3-22-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO. Page 201 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------------|-------|---------|--------|
| 0 | Drilled To Carbide Bit Refusal At 46.0 ft. | | 610.9 | | |
| | | | 605.9 | | |
| | | | 600.9 | | |
| | | | 595.9 | | |
| | | | 590.9 | | |
| | | | 585.9 | | |
| | | | 580.9 | | |
| | | | 575.9 | | |
| 40.0 | | | 570.9 | | |

BORING AND SAMPLING MEETS ASTM D-1864
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 2

TEST BORING RECORD

BORING NO. B-225

DATE DRILLED 3-26-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME DIEZ MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|-------------------------------|-------|---|--------|
| 40.0 | Drilled To Carbide Bit Refusal At 48.0 ft. | | | | |
| | | | 565.0 | | |
| 46.0 | Medium Dark Greenish Gray Mafic Gneiss | NX 86 | | Carbide Bit Refusal At 46.0 ft. 46.0 ft to 50.0 ft.: Moderate Weathering. Close Joints - Low To Medium Dip. | 0 |
| | | | 560.9 | | |
| 50.0 | Hard Dark Greenish Gray Mafic Gneiss | | | Very Close Healed Joints - Low To Medium Dip. | |
| | | | | Top Of Continuous Rock At 51.1 ft. 50.0 ft to 73.3 ft.: | |
| 54.8 | Hard Very Light Green Felsic Gneiss | 87 | | L Slight To Very Slight Weathering. | 77 |
| | | | 555.9 | M Very Close Healed And Filled Joints With Chlorite, Quartz And Calcite - Low To Steep Dip. | |
| 58.1 | Hard To Very Hard Medium Light Gray Felsic Gneiss | | | 1 1/2 Inch Medium Dip Schistose Zone With Quartz And Calcite (52.5 ft.) | |
| | | 85 | | Moderately Weathered Zones - Probable Location Of Core Loss: 50.2 ft to 51.8 ft. 55.2 ft to 55.6 ft. 66.8 ft to 68.0 ft. | 82 |
| | | | 545.9 | Felsic Gneiss Is Finer Grained And More Intermediate In Composition (58.1 to 73.3 ft.) | |
| | | | | 1/2 Inch Medium Dip Quartz Vein (69.5 ft.) | |
| | | | 540.9 | L | |
| | | 100 | | L | 100 |
| 73.3 | Coring Terminated At 73.3 ft. Groundwater Not Measured At Time Of Boring Groundwater 30.2 ft At 24 Hours No Drilling Water Loss | | 535.9 | | |

SOILING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-1/8 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-225,
 DATE DRILLED 3-26-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Page 202 of 298

| DEPTH FT. | DESCRIPTION | CORE % & TIME DIEZ MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|-------------------------------|-------|---------|--------|
| 0 | Drilled To Carbide Bit Refusal At 47.6 ft. | | | | |
| | | | 605.0 | | |
| | | | 600.0 | | |
| | | | 595.0 | | |
| | | | 590.0 | | |
| | | | 585.0 | | |
| | | | 580.0 | | |
| | | | 575.0 | | |
| 40.0 | | | 570.0 | | |

SOILING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-3113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-1/8 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-225,
 DATE DRILLED 4-2-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|---|---|-----------------|
| 10.0 | Drilled To Carbide Bit Refusal At 47.6 ft. | | 570.0 | | |
| 37.6 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 84 | 565.0 560.0 555.0 550.0 545.0 | Carbide Bit Refusal At 47.6 ft. 47.6 ft to 67.6 ft. Slight To Very Slight Weathering. Very Close Healed Joints - Slightly Leached - Low To Steep Dip. Top Of Continuous Rock At 49.3 ft. Moderately Weathered Zones - Very Close Joints: 47.6 to 49.5 ft. 53.2 to 53.6 ft. Epidote Along Healed Joints (61.0 to 61.6 ft.) | 75 95 100 |
| 37.6 | Coring Terminated At 67.6 ft. Groundwater At 31.9 ft At Time Of Boring Stabilized Groundwater At. 29.5 ft. No Drilling Water Loss | 100 | 540.0 | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-1515
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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-226
 DATE DRILLED 4-2-74
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|--|--|--------|
| 0 | Drilled To Auger Refusal At 36.6 ft. | | 612.0 | | |
| 36.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 607.0 602.0 597.0 592.0 587.0 582.0 577.0 572.0 | Carbide Bit Refusal And Top Of Continuous Rock At 36.6 ft. | 100 |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-1515
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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-227
 DATE DRILLED 4-3-74
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|-------|--|--------|
| 0.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 572.0 | 36.6 ft to 58.7 ft.: Very Slight Weathering. Close Healed Joints - Low To Steep Dip. Scattered Xenoliths Of Mafic Gneiss. 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. ¼ Inch - Steep Dip - 53.7 to 54.5 ft. | 100 |
| | | | 567.0 | | 100 |
| | | 100 | 562.0 | | 100 |
| | | 100 | 557.0 | | 100 |
| 7.7 | Coring Terminated At 57.7 ft. | | | | 100 |
| | 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 | | | | |

Page 2 of 2

TEST BORING RECORD

BORING NO. B-227

DATE DRILLED 4-3-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|--------------|--|-------------------------------|-------|---|--------|
| 0 | Drilled To Refusal At 90.3 ft. | | 646.5 | | 100 |
| | | | 561.5 | | 100 |
| 90.3 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | 556.5 | 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.) | 83 |
| | | | 551.5 | | 100 |
| | | 100 | 546.5 | | 100 |
| | | 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 | | | | |

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TEST BORING RECORD

BORING NO. B-229

DATE DRILLED 3-22-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|--|-----------|-------------------|---------|--------|
| | | SIZE MIN. | % & TIME ELEV. | | |
| 0 | Drilled To Carbide refusal At 54.6 ft. | | 655.2 | | |
| | | | 650.2 | | |
| | | | 645.2 | | |
| | | | 640.2 | | |
| | | | 635.2 | | |
| | | | 630.2 | | |
| | | | 625.2 | | |
| | | | 620.2 | | |
| 40.0 | | | 615.2 | | |

Page 1 of 3

BORING AND SAMPLING MEETS ASTM D-1555
 CORE DRILLING MEETS ASTM D-5112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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

TEST BORING RECORD

BORING NO. B-229
 DATE DRILLED 3-21-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE | | REMARKS | R.Q.D. |
|--------------|--|-----------|-------------------|--|--------|
| | | SIZE MIN. | % & TIME ELEV. | | |
| 40.0 | Drilled To Carbide Refusal At 54.6 ft. | | 615.2 | | |
| | | | 610.2 | | |
| | | | 605.2 | | |
| 54.6 | Moderately Hard Very Light Gray Felsic Gneiss | | 600.2 | Carbide Bit Refusal At 54.6 ft. 54.6 ft to 58.2 ft.: Moderate Weathering. Close Joints - Low To Steep Dip. | 95 |
| 58.2 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 595.2 | Very Close Healed Joints - Low To Steep Dip (54.6 ft to 69.0 ft.) Very Slight Weathering (58.2 ft to 64.2 ft.) | |
| 64.2 | Very Soft Very Light Gray And Yellowish Gray Felsic Gneiss | 61 | 590.2 | M Severe Weathering - 3.9 ft Core Loss (64.2 ft to 69.0 ft.) | 52 |
| 69.0 | Drilled To Carbide Refusal At 82.5 ft. | | 585.2 | Terminated Coring And Resumed Carbide Drilling At 69.0 ft. | |
| | | | 580.2 | | |
| 80.0 | | | 575.2 | | |

Page 2 of 3

BORING AND SAMPLING MEETS ASTM D-1555
 CORE DRILLING MEETS ASTM D-5112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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

TEST BORING RECORD

BORING NO. B-229
 DATE DRILLED 3-21-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 575.2 ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------------|--|----------|
| 80.0 | Drilled To Carbide Refusal At 82.5 ft. | | | | |
| 82.5 | Moderately Hard To Very Soft Very Light Gray Felsic Gneiss | | 570.2 | Carbide Bit Refusal At 82.5 ft. Moderately Severe To Severely Weathered Zone (82.5 to 84.9 ft.) Top Of Continuous Rock At 84.9 ft. | 75 |
| 84.9 | Very Hard Light Bluish Gray Felsic Gneiss | NX 88 | 565.2 | 82.5 ft to 102.7 ft.: Very Slight Weathering. Very Close To Close Healed Joints - Occasionally Quartz - Calcite Filled - Low To Steep Dip. | |
| | | | 560.2 | Q L | 100 |
| | | 100 | 555.2 | | |
| | | 100 | 550.2 | | 100 |
| 102.7 | Coring Terminated At 102.7 ft. Groundwater At 19.7 ft At Time Of Boring Stabilized Groundwater At 58.4 ft. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-229
DATE DRILLED 3-21-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | 655.2 ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------------|---|----------|
| 0 | Drilled To Refusal At 54.1 ft. | | | | |
| | | | 650.2 | | |
| | | | 605.2 | | |
| 54.1 | Hard Very Light Gray Felsic Gneiss | NX 96 | 600.2 | Carbide Bit Refusal At 54.1 ft. 54.1 ft to 65.7 ft.: Very Close To Close Joints, Low To Steep Dip. Very Close To Close Healed Joints - Low To Steep Dip. | 70 |
| 57.4 | Medium To Soft Very Light Gray Felsic Gneiss | 100 | 595.2 | Slight Weathering (54.1 to 57.4 ft.) Moderately Severe Weathering (57.4 to 60.5 ft.) Slight Weathering (60.5 to 63.2 ft.) Very Severe Weathering (63.2 to 65.7 ft.) | 100 |
| 60.5 | Hard Very Light Gray Felsic Gneiss | 66 | 590.2 | | 56 |
| 63.2 | Medium To Soft Light Gray Felsic Gneiss | | 590.2 | | |
| 65.7 | | | | N=50/1" No Recovery | |
| 66.2 | Medium To Soft Light Gray Felsic Gneiss | 67 | 585.2 | 66.2 ft to 79.5 ft.: Moderately Severe To Very Severe Weathering. Very Close To Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 0 |
| | | 80 | 580.2 | Note: Used C3 Mud Barrel For Sample Recovery (66.2 ft to 84.8 ft.) | 0 |
| | | 36 | | | 0 |
| 79.5 | | | | | |
| 80.0 | | 89 | 575.2 | | 6.0 |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 1 of 2

TEST BORING RECORD

BORING NO. B-229A
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE 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. Groundwater At 46.6 ft At Time Of Boring Stabilized Groundwater At 56.8 ft. No Drilling Water Loss | | 565.2 | Small Fine Grained Xenolith (85.2ft) Abnormally Frequent Schistose Surface Along Healed Joints (54.1 to 88.4 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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-229A

DATE DRILLED 3-28-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|--|--------|
| 0 | Drilled To Refusal At 68.3 ft. | | | | |
| | | | 637.9 | | |
| | | | 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 100 | 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 | 567.9 | Moderately Weathered Zones With Close Low To Medium Dip Joints: 58.6 ft to 69.1 ft. 70.1 ft to 70.3 ft. At 72.6 ft. 75.4 ft to 75.6 ft. | 55 |
| | | 100 | | | 88 |
| | | 100 | 562.9 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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-230

DATE DRILLED 2-22-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|--------------|--|-------------------------------|-------|--|-------------|
| 88.0 | Moderately Hard To Hard Medium Light Gray Mafic Gneiss | NX 100 | 562.9 | | |
| | | | 557.9 | Slickensided Surface - Steep Dip (84.3 ft.) | 100 |
| 88.0 | Coring Terminated At 88.0 ft. Groundwater At 48.0 ft At Time Of Boring Stabilized Groundwater At 44.2 ft. No Drilling Water Loss | | 552.9 | | |

BOILING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

BORING NO. B-230
DATE DRILLED 3-22-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|--------------|---|-------------------------------|-------|----------|-------------|
| 0 | Very Stiff Tan Red Micaceous Fine To Coarse Sandy Clayey Silt | | 634.9 | | |
| | | | 629.9 | N=16 | |
| 6.0 | Stiff Tan Red Micaceous Fine To Coarse Sandy Silt | | 624.9 | N=12 | |
| 12.0 | Firm Tan Purple To Tan Gray Micaceous Silty Fine To Medium Sand | | 619.9 | N=20 | |
| | | | 614.9 | N=20 | |
| | | | 609.9 | N=13 | |
| | | | 604.9 | N=23 | |
| 33.0 | Partially Weathered Rock That Becomes Brown Gray Micaceous Silty Fine To Medium Sand When Sampled | | 599.9 | N=50/3W* | |
| 37.0 | Dense Brown Gray Micaceous Silty Fine To Coarse Sand | | | | |
| 39.0 | Hard Green Gray Fine Sandy Micaceous * | | 594.9 | N=40 | |
| 40.0 | | | | | |

BOILING AND SAMPLING MEETS ASTM D-1585 * Silt
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

BORING NO. B-231
DATE DRILLED 3-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------|-------|---|--------|
| 40.0 | Hard Green Gray Fine Sandy Micaceous Silt | | | | |
| | | | 589.9 | N=55 | |
| 47.0 | Partially Weathered Rock That Becomes Gray Fine Sandy Micaceous Silt When Sampled | | 584.9 | N=50/6" | |
| 53.3 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 98 | 579.9 | Carbide Bit Refusal At 53.3 ft. 53.3 to 72.5 ft. Very Close Healed Joints - Low To Steep Dip. Scattered Small Xenoliths Of Mafic And Fine Grained Felsic Gneiss. | 37 |
| 56.9 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 574.9 | 53.3 to 56.9 ft.: M Moderate Weathering. L Close Joints - Low To Medium Dip. | |
| | | 100 | 569.9 | Top Of Continuous Rock At 56.9 ft. Slight To Very Slight Weathering (56.9 to 72.5 ft.) | 97 |
| | | | 564.9 | Complete Drilling Water Loss | 100 |
| 72.5 | Coring Terminated At 72.5 ft. Groundwater At 43.8 ft At Time Of Boring Stablized Groundwater At 44.9 ft. Drilling Water Loss At 70.0 ft. | | | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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

BORING NO. B-231
DATE DRILLED 3-29-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--------------------------------|---------------------------|-------|---------|--------|
| 0 | Drilled To Refusal At 42.7 ft. | | | | |
| | | | 623.2 | | |
| | | | 618.2 | | |
| | | | 613.2 | | |
| | | | 608.2 | | |
| | | | 603.2 | | |
| | | | 598.2 | | |
| | | | 593.2 | | |
| 40.0 | | | 588.2 | | |

Page 1 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

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

BORING NO. B-232
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|-------|---|-------------|
| 0.0 | Drilled To Refusal At 42.7 ft. | | 588.2 | | |
| 2.7 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 88 | 583.2 | Carbide Bit Refusal At 42.7 ft. 42.7 ft to 47.4 ft.: Moderate Weathering. Very Close To Close Joints - Low To Steep Dip. Very Close Healed Joints - Low To Steep Dip. | 22 |
| | | | 578.2 | M Very Soft Very Severely Weathered Zone - Probable Location Of 0.6 ft Core Loss (47.6 to 47.3 ft.) | |
| | | | 573.2 | L 47.4 ft to 67.3 ft.: Slight To Very Slight Weathering. M Very Close To Close Healed Joints, Low To Steep Dip. Scattered Small Xenoliths Of Mafic Gneiss | 97 |
| | | 99 | 568.2 | Slight Leaching Along Healed Joints: 53.2 ft to 57.5 ft. 62.5 ft to 62.8 ft. | |
| | | 100 | 563.2 | M | 100 |
| 7.3 | Coring Terminated At 67.3 ft. Groundwater At 32.2 ft At Time Of Boring Stabilized Groundwater At 36.4 ft. No Drilling Water Loss | | | | |

BOHRING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

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TEST BORING RECORD

BORING NO. B-232
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--------------------------------|-------------------------------|-------|---------|-------------|
| 0 | Drilled To Refusal At 58.5 ft. | | 617.4 | | |
| | | | 612.4 | | |
| | | | 607.4 | | |
| | | | 602.4 | | |
| | | | 597.4 | | |
| | | | 592.4 | | |
| | | | 587.4 | | |
| | | | 582.4 | | |
| 40.0 | | | 577.4 | | |

BOHRING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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

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TEST BORING RECORD

BORING NO. B-233
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---------------------------------------|---------------------------|-------|---|--------|
| 3.0 | Drilled To Refusal At 58.5 ft. | | 572.4 | | |
| | | | 567.4 | | |
| | | | 562.4 | | |
| 8.5 | Hard Medium Light Gray Mafic Gneiss | NX 92 | 557.4 | Carbide Bit Refusal At 58.5 ft. 58.5 ft to 82.0 ft. Moderate To Slight Weathering. Close And Very Close Joints - Low To Steep Dip. Very Close To Close Healed And Slightly Leached Joints - Low To Steep Dip. Badly Broken Rock. | 38 |
| 1.6 | Hard Light Gray Felsic Gneiss | | | | |
| 4.2 | Hard To Medium Dark Gray Mafic Gneiss | | 552.4 | | 40 |
| 5.4 | Hard Light Gray Felsic Gneiss | 73 | | | 40 |
| 1.5 | Hard Medium Light Gray Mafic Gneiss | 80 | 547.4 | Steep Calcite Filled Healed Joints (60.8 ft.) Moderately To Severely Weathered Zone (64.2 ft to 65.4 ft.) | 40 |
| | | 100 | 542.4 | | 33 |
| | | 0 | | | 0 |
| 8.9 | Hard To Very Hard Very Light Gray * | 100 | 537.4 | Top Of Continuous Rock At 76.4 ft. Silckensided Surface - Steep Dip - Oxide Coated (77.8 ft.) | 56 |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588 * Felsic Gneiss
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

BORING NO. B-233
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|--|--------|
| 80.0 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | | Epidote Coated Healed Joints (80.5 - 81.0 ft.) 82.0 ft to 96.9 ft. Slight To Very Slight Weathering. Very Close Healed And Calcite And Chlorite Filled Joints - Low To Steep Dip. Silckensided Surface - Medium Dip - Rough (84.0 ft.) | 56 |
| | | 92 | 532.4 | | 92 |
| 88.3 | Hard Medium Gray Mafic Gneiss | | 527.4 | | |
| | | 100 | 522.4 | | 100 |
| 96.9 | Coring Terminated At 96.9 ft. Groundwater Not Measured At Time Of Boring Stabilized Groundwater At 34.9 ft. No Drilling Water Loss | | | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

BORING NO. B-233
DATE DRILLED 3-28-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|--|--|---|--------|
| 0 | Drilled To Carbide Refusal At 45.4 ft. | | | |
| 45.4 | Hard To Very Hard Light Gray Felsic Gneiss | 573.2 | Carbide Bit Refusal And Top Of Continuous Rock At 45.4 ft. 45.4 ft to 67.2 ft.: Slight To Very Slight Weathering. Very Close Healed Joints With Calcite, Slightly Leached - Low To Steep Dip. | 69 |
| | | 568.2 | Steep Dip Quartz And Chlorite Filled Joints: 53.3 ft. 55.2 ft. 60.8 ft. | 91 |
| | | 563.2 | Moderately Weathered Zone (58.4 ft to 60.2 ft.) | 100 |
| | | 558.2 | Moderately Severely Weathered Zone Badly Broken Rock (63.9 ft to 64.1 ft.) | 31 |
| | | 553.2 | Quartz And Chlorite Filled Joints And Very Thin Schistose Zones - Medium To Steep Dip (64.3 to 66.3 ft.) | 97 |
| 37.2 | | Coring Terminated At 67.2 ft. No Groundwater Measurement Was Taken At Time Of Boring Hole Caved At 11.9 ft Before Taking 24 Hour Water Reading No Drilling Water Loss | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

BORING NO. D-234
DATE DRILLED 4-5-74
JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------------|---------|--------|
| 0 | Drilled To Carbide Refusal At 40.1 ft. | | | |
| | | 612.0 | | |
| | | 607.0 | | |
| | | 602.0 | | |
| | | 597.0 | | |
| | | 592.0 | | |
| | | 587.0 | | |
| | | 582.0 | | |
| 40.0 | | 577.0 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

Page 1 of 2

TEST BORING RECORD

BORING NO. B-235
DATE DRILLED 4-4-74
JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | % TIME | ELEV. | REMARKS | R.Q.D. |
|--------------|---|----------------|--------|-------|--|--------|
| 40.0 40.1 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 100 | | 572.0 | M Carbide Bit Refusal And Top Of Continuous Rock At 40.1 ft. L 40.1 to 62.6 ft.: Very Slight Weathering. Very Close Healed Joints With Chlorite And Calcite - Low To Steep Dip. Few Small Fine Grained Xenoliths. | 94 |
| | | | | 567.0 | 1/2 Inch, Leached, Vertical Quartz Filled Schistose Zone (45.0 to 47.0 ft.) | 100 |
| | | | | 562.0 | 1/2 Inch, Medium Dip Brecciated Zone (47.7 ft.) | |
| | | | | 557.0 | 1/2 Inch, Medium Dip, Chlorite Filled Brecciated Zone (60.3 ft.) | 100 |
| 62.6 | Coring Terminated At 62.6 ft. | | | 552.0 | | |
| | Groundwater At 48.3 ft At Time Of Boring | | | | | |
| | Stabilized Groundwater At 37.7 ft. | | | | | |
| | No Drilling Water Loss | | | | | |

BORING AND SAMPLING MEETS ASTM D-1585 * 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.

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 NO. B-235

DATE DRILLED 4-4-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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TEST BORING RECORD

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| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | % TIME | ELEV. | REMARKS | R.Q.D. |
|--------------|---|----------------|--------|-------|--|--------|
| 0 | Drilled To Refusal At 42.2 ft. | | | | | |
| 42.2 43.2 | Moderately Hard Very Light Gray Felsic | | | 578.2 | M Carbide Bit Refusal At 42.2 ft. 42.2 ft to 43.2 ft.: Slight To Moderate Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 0 |
| | Soft To Medium Very Pale Orange Felsic Gneiss | NX 20 | | 573.2 | Moderately Severe To Severe Weathering (43.2 to 50.6 ft.) Second Carbide Bit Refusal At 51.3 ft. | |
| 50.6 51.3 | Redrilled To Second Refusal | | | 568.2 | Moderate To Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 79 |
| | Moderately Hard To Hard Very Light Gray Felsic Gneiss | NX 95 | | 563.2 | Moderately To Moderately Severely Weathered Zones - Probable Locations Of Core Loss: 54.5 ft to 54.6 ft. 55.5 ft to 55.7 ft. 58.1 ft to 58.5 ft. 60.9 ft to 61.3 ft. 68.5 ft to 71.7 ft. | |
| | | | | 558.2 | M Quartz Vein - Locally Leached (61.3 to 62.2 ft.) 1 In. Thick, Steep Dip, Quartz And Chlorite Filled, Leached Brecciated Zone (68.9 to 69.9 ft.) Nearly Vertical Brecciated Zone, 1 Inch Thick Filled With Quartz, Chlorite, Calcite And Manganese Oxide; has drag folds indicating normal component; oblique Stick-ensided Surface On Manganese Oxide (71.8 to 74.0 ft.) Shear Zone May Extend From 68.5 to 74.5 ft. | 0 |
| | | | | 553.2 | Top Of Continuous Rock At 71.3 ft. 74.3 ft to 91.3 ft.: Very Slight Weathering. Close And Very Close Healed Joints - Low To Steep Dip. | 25 |
| 74.3 | Very Hard Light Bluish Gray Felsic Gneiss | 94 | | 548.2 | 1/2 Inch Vertical Brecciated Zone Filled With Calcite And Manganese* | 92 |
| 80.0 | | | | 543.2 | | |

BORING AND SAMPLING MEETS ASTM D-1585 * 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.

STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

* Oxide (76.4 to 77.0 ft.)
Sericite Rich (78.0 to 80.5 ft.)

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TEST BORING RECORD

BORING NO. B-236

DATE DRILLED 4-9-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R. Q. D. |
|-----------|---|---------------------------|-------|---------|----------|
| 80.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX 99 | 543.2 | | 92 |
| | | | 538.2 | L | |
| | Steep Quartz Stringer (89.0 ft to 89.9 ft.) | NX 100 | | | 100 |
| | | | 533.2 | | |
| 91.3 | Coring Terminated At 91.3 ft. Groundwater At 28.6 ft At Time Of Boring Stabilized Groundwater At 26.8 ft. No Drilling Water Loss | | 528.2 | | |

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TEST BORING RECORD

BORING NO. 8-236
 DATE DRILLED 4-9-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1584
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R. Q. D. |
|-----------|--|---------------------------|-------|--|----------|
| 0 | Drilled To Carbide Bit Refusal At 60.1 ft. | | 620.8 | | |
| | | | 615.8 | | |
| | | | 570.8 | | |
| | | | 565.8 | | |
| 60.1 | Hard To Very Hard Medium Light Gray Mafic Gneiss | NX 100 | 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.) | 100 |
| | | | 555.8 | M | |
| | | | 550.8 | | 100 |
| | | | 545.8 | | |
| 79.9 | | | 540.8 | | 100 |

BORING AND SAMPLING MEETS ASTM D-1584
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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°

* 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. 8-237
 DATE DRILLED 4-3-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|---------------------------|-------|---------|--------|
| 0 | Hard Brown Red Fine To Coarse Sandy Very Clayey Silt With Rock Fragments | | | | |
| | | | 648.5 | N=52 | |
| 8.0 | Very Stiff To Hard Tan Pink Micaceous Fine To Coarse Very Sandy Silt | | 643.5 | N=15 | |
| | | | 638.5 | N=23 | |
| | | | 633.5 | N=27 | |
| | | | 628.5 | N=31 | |
| 27.0 | Hard Brown Fine To Medium Sandy Micaceous Silt | | 623.5 | N=64 | |
| 31.0 | Very Dense Pink Gray Micaceous Very Silty Fine To Coarse Sand | | 618.5 | N=53 | |
| 39.0 | | | | | |
| 40.0 | Hard Tan Gray Fine To Coarse Sandy * | | 613.5 | N=50 | |

SOILING AND SAMPLING MEETS ASTM D-1586 * Micaceous Silt
 CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

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TEST BORING RECORD

BORING NO. B-238

DATE DRILLED 3-27-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|--|---------------------------|-------|---|--------|
| 40.0 | Hard Tan Gray Fine To Coarse Sandy * | | | | |
| 40.4 | Hard To Very Hard Very Light Gray Felsic Gneiss | | | Carbide Bit Refusal And Top Of Continuous Rock At 40.4 ft. 40.4 to 46.1 ft.: Slight To Moderate Weathering. Very Close And Close Joints - Low To Steep Dip. | |
| | | NX 98 | 608.5 | Very Close Healed Joints - Low To Steep Dip (40.6 to 63.8 ft.) Moderately Severely Weathered Zone (44.8 to 46.1 ft.) | 77 |
| | | | 603.5 | Very Slight Weathering (46.1 to 63.8 ft.) Mafic Xenolith (46.6 ft.) | 98 |
| | | 100 | 598.5 | Slightly Leached Thin Quartz Vein (54.1 ft.) | |
| | | | 593.5 | | |
| | | 100 | 588.5 | | 100 |
| 63.8 | Coring Terminated At 63.8 ft. Groundwater At 47.4 ft At Time Of Boring Stabilized Groundwater At 51.3 ft. Drilling Water Loss At 44.5 ft. | | | | |

SOILING AND SAMPLING MEETS ASTM D-1586 * Micaceous Silt
 CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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.O.D. ROCK QUALITY DESIGNATION

613.5

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TEST BORING RECORD

BORING NO. B-238

DATE DRILLED 3-27-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|-----------|--|---------------------------|-------|---------|----------|
| 0 | Very Stiff Tan Red Fine To Coarse Sandy Silty Clay | | | | |
| | | | 611.7 | N=25 | |
| 7.0 | Firm Tan Pink Micaceous Very Silty Fine To Coarse Sand | | | | |
| | | | 606.7 | N=20 | |
| | | | 601.7 | N=23 | |
| | | | 596.7 | N=24 | |
| | | | 591.7 | N=27 | |
| 27.0 | Very Stiff Tan Red Micaceous Fine To Coarse Sandy Silt | | | | |
| | | | 586.7 | N=25 | |
| | | | 581.7 | N=23 | |
| 37.0 | Firm Tan Red Micaceous Very Silty Fine To Coarse Sand | | | | |
| 40.0 | | | 576.7 | N=27 | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.O.D. ROCK QUALITY DESIGNATION

Page 1 of 3

TEST BORING RECORD

BORING NO. B-240
 DATE DRILLED 4-8-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CC.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.O.D. |
|-----------|---|---------------------------|-------|---|----------|
| 40.0 | Firm Tan Red Micaceous Very Silty * | | | | |
| 41.0 | Firm To Very Dense Yellow Tan Micaceous Silty Fine To Coarse Sand | | | | |
| | | | 571.7 | N=27 | |
| | | | 566.7 | N=36 | |
| | | | 561.7 | N=51 | |
| | | | 556.7 | N=50/3" | |
| 58.8 | Partially Weathered Rock That Becomes Yellow Tan Micaceous Silty Fine To Coarse Sand When Sampled | | | | |
| | | | 551.7 | | |
| 65.5 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | | N=50/0" No Recovery Carbide Bit Refusal And Top Of Continuous Rock At 65.5 ft. 65.5 ft. to 83.8 ft. Slight To Very Slight Weathering. Very Close Healed Joints With Chlorite And Calcite - Low To Steep Dip. Medium Moderately To Moderately Severely Weathered Zones: 70.5 ft. to 70.9 ft. 77.0 ft. to 77.4 ft. Slight Leaching Along Healed Joints (65.5 to 77.7 ft.) | 100 |
| | | 100 | 546.7 | | |
| | | | 541.7 | | 92 |
| | | 100 | 536.7 | | 100 |
| 80.0 | * Fine To Coarse Sand | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Fine To Coarse Sand
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.O.D. ROCK QUALITY DESIGNATION

Page 2 of 3

TEST BORING RECORD

BORING NO. B-240
 DATE DRILLED 4-8-74
 JOB NO. CH 2920

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

LAW ENGINEERING TESTING CC.

536.7

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE 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. Groundwater At 39.5 ft At Time Of Boring Stabilized Groundwater At 38.9 ft. No Drilling Water Loss | | 531.7 | | |

Page 3 of 3

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.O. SAMPLER 1 FT.

BORING NO. B-240
DATE DRILLED 4-8-74
JOB NO. CH 2920

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CC.

Page 218 of 298

624.8

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|---------------------------|-------|---------|----------|
| 0 | Very Stiff Tan Red Fine Sandy Silty Clay | | | | |
| 5.0 | Stiff And Very Stiff Brown Tan Fine Sandy To Very Sandy Micaceous Silt | | | | |
| | | | 619.8 | N=16 | |
| | | | 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 | | | | |
| 40.0 | | | 584.8 | N=71 | |

Page 1 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.O. SAMPLER 1 FT.

BORING NO. B-241
DATE DRILLED 3-27-74
JOB NO. CH 2920

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CC.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|---|---------------------------|-------|---|--------|
| 40.0 | Hard Tan Brown Fine Sandy Micaceous Silt | | | | |
| 42.0 | Partially Weathered Rock That Becomes Tan Brown And Gray Micaceous Fine To Coarse Sandy Silt With Rock Fragments When Sampled | | 579.8 | N=50/6" | |
| 49.0 | Hard To Very Hard Medium Light Gray Mafic Gneiss | | 574.8 | N=50/2" Carbide Bit Refusal At 49.0 ft. | |
| 54.6 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 99 | 569.8 | Top Of Continuous Rock At 53.9 ft. 49.0 ft to 72.3 ft. Slight To Very Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. Soft, Moderately Severely Weathered Zone (51.3 ft to 53.9 ft.) | 80 |
| | | | 564.8 | | |
| | | 100 | 559.8 | | 100 |
| | | | 554.8 | | |
| | | 100 | | | 100 |
| 72.3 | Coring Terminated At 72.3 ft. Groundwater At 21.0 ft At Time Of Boring Stabilized Groundwater At 22.8 ft. No Drilling Water Loss | | | | |

BOILING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

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

Page 2 of 2
TEST BORING RECORD

BORING NO. B-241
DATE DRILLED 2-27-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---------|--------|
| 0 | Very Stiff Tan Pink Micaceous Fine To Coarse Sandy Silt | | | | |
| | | | 607.7 | N=25 | |
| | | | 602.7 | N=26 | |
| 12.0 | Firm Gray Tan Micaceous Very Silty Fine To Coarse Sand | | 597.7 | N=18 | |
| | | | 592.7 | N=16 | |
| | | | 587.7 | N=17 | |
| 28.3 | Dense To Very Dense Gray To Tan Micaceous Very Silty Fine To Coarse Sand | | 582.7 | N=32 | |
| | | | 577.7 | N=33 | |
| | — Rock Fragments Encountered At 38.3 ft. | | | | |
| 40.0 | | | 572.7 | N=67 | |

BOILING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.

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

Page 1 of 3
TEST BORING RECORD

BORING NO. B-242
DATE DRILLED 4-2-74
JOB NO. CH 2920

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

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | | REMARKS | R. Q. D. |
|--------------|--|-------------------------------------|---|---------|----------|
| | | | | | |
| 40.0 | Dense To Very Dense Gray To Tan Micaceous Very Silty Fine To Coarse Sand | | | | |
| | | 567.7 | N=53 | | |
| | | 562.7 | N=63 | | |
| 52.0 | Partially Weathered Rock That Becomes Gray Tan Slightly Micaceous Slightly Silty To Silty Fine To Coarse Sand When Sampled | | | | |
| | | 557.7 | N=50/1" | | |
| | | | N=50/0" No Recovery | | |
| | | 552.7 | | | |
| | | 547.7 | N=50/3" | | |
| 65.4 | Medium To Moderately Hard Very Light Gray Felsic Gneiss | | | | |
| | | | Carbide Bit Refusal At 65.4 ft. 65.4 ft to 92.0 ft. | | |
| | | | Moderate To Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | | |
| | | | Very Close And Close Joints - Low To Steep Dip. Slight Leaching. Moderately Severely Weathered Zones: 73.0 ft to 74.5 ft. 78.9 ft to 79.1 ft. | | |
| | | 542.7 | | | 72 |
| | | | | | 51 |
| | | 537.7 | | | |
| | | | | | 35 |
| 80.0 | | 46 | 532.7 | | 36 |

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

UNDISTURBED SAMPLE WATER 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-242
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO. Page 220 of 238

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. ELEV. | | REMARKS | R. Q. D. |
|--------------|--|-------------------------------------|--|--|----------|
| | | | | | |
| 80.0 | Medium To Moderately Hard Very Light Gray Felsic Gneiss | | | | |
| | | | | Moderately Severely Weathered Zone - Probable Location of Core Loss (83.6 ft to 91.5 ft.) | |
| | | | | | 36 |
| | | | | | |
| | | | | Top Of Continuous Rock At 92.0 ft. 92.0 ft to 109.2 ft. Very Slight Weathering. Very Close To Close Healed And Filled Joints With Calcite And Chlorite - Low To Steep Dip. | |
| 92.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | | | |
| | | | | | 71 |
| | | | | | |
| | | | | | 100 |
| | | | | | |
| | | | | | |
| | | | | | 100 |
| 109.2 | Coring Terminated At 109.2 ft. Groundwater At 22.0 ft At Time Of Boring Stabilized Groundwater At 18.6 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-242
DATE DRILLED 4-2-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 618.6 | | REMARKS | R.Q.D. | |
|--------------|--|--|-------|---------|--------|--|
| | | CORE NO. & TIME SIZE MIN. | ELEV. | | | |
| 0 | Very Stiff Tan Pink Micaceous Fine To Coarse Sandy Silt | | | | | |
| | | 613.6 | N=17 | | | |
| | | 608.6 | N=20 | | | |
| 12.0 | | Firm To Dense Tan-Pink To Tan Micaceous Very Silty Fine To Coarse Sand | 603.6 | N=25 | | |
| | | | 598.6 | N=24 | | |
| 26.0 | Firm To Dense Tan Pink To Tan Micaceous Very Silty Fine To Coarse Sand | 593.6 | N=40 | | | |
| | | 588.6 | N=27 | | | |
| | | 583.6 | N=28 | | | |
| 40.0 | | 578.6 | N=33 | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER 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-243
 DATE DRILLED 4-3-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 578.6 | | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|---------------------|---------|--------|
| | | CORE NO. & TIME SIZE MIN. | ELEV. | | |
| 40.0 | Firm To Dense Tan Pink To Tan Micaceous Very Silty Fine To Coarse Sand | | | | |
| | | 573.6 | N=42 | | |
| 47.0 | Hard Tan Brown Fine Sandy Micaceous Silt | | | | |
| | | 568.6 | N=68 | | |
| 52.0 | Very Dense Tan Brown Micaceous Very Silty Fine To Coarse Sand | | | | |
| | | 563.6 | N=62 | | |
| 59.5 | Partially Weathered Rock That Becomes Tan Gray Fine Sandy Micaceous Silt When Sampled | | | | |
| | | 558.6 | N=50/4" | | |
| | | 553.6 | N=50/1" No Recovery | | |
| 68.0 | Partially Weathered Rock That Becomes Gray Brown Micaceous Very Silty Fine To Coarse Sand When Sampled | | | | |
| | | 548.6 | N=50/2" | | |
| 73.3 | Partially Weathered Rock | | | | |
| | | 543.6 | N=50/0" No Recovery | | |
| 80.0 | | 538.6 | N=50/0" No Recovery | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-5113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER 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-243
 DATE DRILLED 4-3-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. | 538.6 ELEV. | REMARKS | R.O.D. |
|-----------|---|--------------------------------|----------------|--|--------|
| 80.0 | Partially Weathered Rock | | | N=50/0" No Recovery | |
| | | | 533.6 | | |
| | | | 528.6 | N=50/0" No Recovery | |
| | | | 523.6 | N=50/0" No Recovery | |
| 97.3 | Hard To Very Hard Very Light Gray Felsic Gneiss | NX 95 | 518.6 | Carbide Bit Refusal And Top Of Continuous Rock At 97.3 ft. 97.3 ft to 134.0 ft. Slight Weathering. Very Close Healed, Calcite, Chlorite And Quartz Filled And Slightly Leached Joints - Low To Steep Dip. | 65 |
| | | 100 | 513.6 | Closely To Very Closely Joints, Moderately To Moderately Severely Weathered Zones: 115.1 ft to 116.4 ft. 117.0 ft to 117.2 ft. 117.9 ft to 119.0 ft. 123.3 ft to 123.8 ft. 124.1 ft to 129.0 ft. 130.0 ft to 130.8 ft. | 94 |
| | | 97 | 508.6 | Badly Broken Rock: 97.3 to 103.7 ft. 115.3 to 116.4 ft. | 88 |
| | | | 503.6 | Quartz Vein (102.8 to 103.6 ft.) | |
| 17.0 | Medium Grayish Yellow Green Mafic Gneiss | 100 | | | 63 |
| 19.0 | Hard Light Bluish Gray Mafic Gneiss | | 498.6 | | |
| 20.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.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-243

DATE DRILLED 4-3-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. | 498.6 ELEV. | REMARKS | R.O.D. |
|-----------|---|--------------------------------|----------------|---|--------|
| 120.0 | Hard Light Bluish Gray Mafic Gneiss | NX 100 | | | 63 |
| 124.1 | Medium Light Olive Gray Mafic Gneiss | 100 | 493.6 | | 31 |
| 130.8 | Hard To Very Hard Very Light Gray Felsic Gneiss | 100 | 488.6 | Schistose And Brecciated Contact Zone - Steep Dip. (129.9 to 130.8 ft.) | 86 |
| 134.0 | Coring Terminated At 134.0 ft. Groundwater At 39.1 ft At Time Of Boring Hole Caved At 30.2 ft Before Taking 24 Hour Water Reading No Drilling Water Loss | | 483.6 | | |

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-8113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.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-243

DATE DRILLED 4-3-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 599.9 | | REMARKS | R.Q.D. | |
|--------------|---|---|-------|---------|--------|--|
| | | CORE S. & FINE SIZE MIN. | ELEV. | | | |
| 0 | Stiff Tan Red Micaceous Fine To Coarse Sandy Silt | | 594.9 | | | |
| | | | | N=10 | | |
| | | | 589.9 | | | |
| | | | | N=11 | | |
| 11.0 | | Firm Red Tan To Yellow Tan Micaceous Very Silty Fine To Coarse Sand And Very Stiff Micaceous Fine To Coarse Very Sandy Silt | | 584.9 | | |
| | | | | | N=14 | |
| | | | | 579.9 | | |
| | | | | | N=19 | |
| | | | | 574.9 | | |
| | | | | | N=14 | |
| | | | 569.9 | | | |
| | | | | N=18 | | |
| | | 564.9 | | | | |
| | | | N=24 | | | |
| 40.0 | | 559.9 | | | | |

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-6113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 4
TEST BORING RECORD

BORING NO. B-244
 DATE DRILLED 4-12-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | 559.9 | | REMARKS | R.Q.D. |
|--------------|--|--------------------------------|-------|---------------------|--------|
| | | CORE S. & FINE SIZE MIN. | ELEV. | | |
| 40.0 | Firm Red Tan To Yellow Tan Micaceous Very Silty Fine To Coarse * | | | | |
| 41.7 | | | | N=35 | |
| | No Recovery | | 554.9 | | |
| 45.0 | Dense Tan Gray Micaceous Very Silty Fine To Coarse Sand | | | N=43 | |
| | | | 549.9 | | |
| | | | 544.9 | N=35 | |
| 57.6 | No Recovery | | | N=60 | |
| | | | 539.9 | | |
| 62.6 | Partially Weathered Rock | | | N=50/1" | |
| | | | 534.9 | | |
| | | | | N=50/1" No Recovery | |
| | | | 529.9 | | |
| | | | | N=50/2" No Recovery | |
| | | 524.9 | | | |
| | | | | N=50/1" No Recovery | |
| 80.0 | | 519.9 | | | |

BORING AND SAMPLING MEETS ASTM D-1586 * Sand And Vary Stiff Micaceous
 CORE DRILLING MEETS ASTM D-6113 Fine To Coarse Very Sandy Silt
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 [] UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 [] ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 4
TEST BORING RECORD

BORING NO. B-244
 DATE DRILLED 4-12-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.Q. |
|-----------|---|---------------------------|-------|--|--------|
| 80.0 | Partially Weathered Rock | | | | |
| | | | | N=50/0" No Recovery | |
| | | | 514.9 | | |
| | | | | N=50/0" No Recovery | |
| | | | 509.9 | | |
| | | | | N=50/0" No Recovery | |
| | | | 504.9 | | |
| | | | | N=50/0" No Recovery | |
| | | | 499.9 | | |
| | | | | N=50/0" No Recovery | |
| | | | 494.9 | | |
| | | | | N=50/0" No Recovery | |
| | | | 489.9 | Carbide Bit Refusal And Top Of Continuous Rock At 109.2 ft. 109.2 ft to 129.0 ft. Very Slight Weathering. Close And Very Close Healed And Filled Joints With Calcite And Chlorite - Medium To Steep Dip. | |
| 109.2 | Hard Medium Gray Mafic Gneiss | NX 100 | 484.9 | | 100 |
| 115.8 | Very Hard Light Bluish Gray Felsic Gneiss | | | Slickensided Surface - Medium Dip (111.0 ft.) Very Thin Steep Dip Schistose Zone With Quartz, Epidote (?) And Calcite (115.5 ft.) | |
| 118.8 | Hard Medium Gray Mafic Gneiss | | 479.9 | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8119
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.O.Q. ROCK QUALITY DESIGNATION

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

BORING NO. B-244
DATE DRILLED 4-12-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

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| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.Q. |
|-----------|---|---------------------------|-------|---|--------|
| 120.0 | Hard Medium Gray Mafic Gneiss | | | | |
| 122.4 | Very Hard Light Bluish Gray Felsic Gneiss | | | | |
| 123.9 | Hard Medium Gray Mafic Gneiss | | 474.9 | | |
| | | NX 100 | | All Contacts Are Steeply Dipping: 115.8 ft. 118.8 ft. 122.4 ft. 123.3 ft. 1/2 Inch Schistose Zone At Contact (122.4 ft.) Interfingering Of Felsic And Mafic Gneiss (123.0 to 123.7 ft.) 1/2 Inch Fine Grained Brecciated Zone With Actinolite, Chlorite And Calcite (127.0 ft.) | 100 |
| 129.0 | Coring Terminated At 129.0 ft. | | 469.9 | | |
| | Groundwater At 34.6 ft At Time Of Boring | | | | |
| | Stabilized Groundwater At 36.4 ft. | | | | |
| | No Drilling Water Loss | | | | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-8119
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE WATER TABLE, 24 HR.
ROCK CORE RECOVERY WATER TABLE, 1 HR.
N = STANDARD PENETRATION LOSS OF DRILLING WATER
R.O.Q. ROCK QUALITY DESIGNATION

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

BORING NO. B-244
DATE DRILLED 4-12-74
JOB NO. CH 2920
LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| | | 593.6 | | | |
|--------------|---|-------------------------------|-------|---------|--------|
| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
| 0 | Very Stiff Brown Red Fine Sandy Micaceous Very Silty Clay | | | | |
| | | | 588.6 | N=21 | |
| 6.0 | Very Stiff To Stiff Brown And Red Fine Sandy Very Micaceous Silt | | | | |
| | | | 583.6 | N=28 | |
| | | | 578.6 | N=15 | |
| 16.0 | Very Stiff Brown Tan Fine To Medium Sandy Micaceous Silt | | | | |
| | | | 573.6 | N=16 | |
| | | | 568.6 | N=20 | |
| | | | 563.6 | N=20 | |
| | | | 558.6 | N=21 | |
| 40.0 | | | 553.6 | | |

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BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-245

DATE DRILLED 4-10-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| | | 593.6 | | | |
|--------------|--|-------------------------------|-------|---------------------|--------|
| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
| 40.0 | Very Stiff Brown Tan Fine To Medium Sandy Micaceous Silt | | | N=25 | |
| 42.0 | Hard Brown Tan To Tan Brown Fine To Medium Sandy Micaceous Silt | | | | |
| | | | 548.6 | N=67 | |
| | | | 543.6 | N=82 | |
| 53.5 | Partially Weathered Rock That Becomes Brown Tan Micaceous Silty Fine To Coarse Sand When Sampled | | | N=50/3" | |
| | | | 538.6 | | |
| | | | 533.6 | N=50/5" | |
| | | | 528.6 | N=50/1" No Recovery | |
| 67.0 | Partially Weathered Rock That Becomes Tan Brown Micaceous Fine To Medium Sandy Silt When Sampled | | | N=50/4" | |
| | | | 523.6 | | |
| 73.5 | Partially Weathered Rock | | | N=50/2" No Recovery | |
| | | | 518.6 | | |
| 80.0 | | | 513.6 | N=50/0" No Recovery | |

Page 2 of 3

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-245

DATE DRILLED 4-10-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|--|--------|
| 80.0 | Partially Weathered Rock | | | | |
| | | | 508.6 | N=50/0" No Recovery | |
| 88.1 | Moderately Hard To Medium Very Light Gray Felsic Gneiss | | 503.6 | Carbide Bit Refusal At 88.1 ft. 88.1 to 90.3 ft.: Moderate Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 15 |
| 90.3 | Soft To Very Soft Moderate Yellowish Brown Mafic Gneiss | NX 95 | | | |
| 94.6 | Hard Light Bluish Gray Mafic Gneiss | | 498.6 | Severs To Very Severe Weathering (90.3 to 94.6 ft.) | |
| 96.3 | Very Hard Light Bluish Gray Felsic Gneiss | | | Top Of Continuous Rock At 94.6 ft. 94.6 ft to 114.0 ft.: Very Slight Weathering. Very Close Healed And Filled Joints With Calcite Chlorite And Epidote (?) - Low To Steep Dip. | |
| 98.1 | Hard To Very Hard Light Bluish Gray Mafic Gneiss | 100 | 493.6 | | 100 |
| | | | 488.6 | Near Vertical Schistose Zone Up To 1/2 Inch Thick With Calcite And Chlorite And Pockets Of Quartz And Pyrite: 96.3 to 97.4 ft. 102.0 to 103.1 ft. | |
| | | 100 | 483.6 | 2 Inch, Medium Dip Brecciated Zone With Calcite And Epidote Filling (106.7 ft.) 1/4 Inch, Medium Dip Brecciated Zone With Calcite And Epidote (107.1 ft.) | 100 |
| 114.0 | Coring Terminated At 114.0 ft. | | 478.6 | Note: Rock Classified As Mafic Gneiss Is Intermediate In Composition And Locally May Grade To Felsic | |
| | Groundwater At 20.6 ft At Time Of Boring Stabilized Groundwater At 24.2 ft. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-245

DATE DRILLED 4-10-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|---------------------------|-------|---|--------|
| 0 | Firm Red Brown Fine To Medium Sandy Micaceous Clayey Silt | | | | |
| | | | 579.6 | N=7 | |
| 7.0 | Loose Brown Gray Micaceous Silty Fine To Medium Sand | | 574.6 | N=9 | |
| | | | 569.6 | N=37 | |
| 14.6 | Dense To Firm Gray Brown To Tan Gray Micaceous Silty Fine To Coarse Sand | | 564.6 | N=29 | |
| 20.0 | Firm To Dense To Firm Gray Brown To Tan Gray Micaceous Silty Fine To Coarse Sand | | 559.6 | N=38 | |
| 28.0 | Partially Weathered Rock | | 554.6 | N=50/1" No Recovery | |
| 34.7 | Hard To Moderately Hard Very Light Gray Felsic Gneiss | NX 96 | 549.6 | N=50/1" Carbide Bit Refusal At 34.7 ft. | |
| | | | 544.6 | 34.7 ft to 39.7 ft.: Slight Weathering. Very Close Healed And Slightly Leached Joints - * | 96 |
| 39.7 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1588 * Coring Terminated At 39.7 ft. * Low To Steep Dip.

CORE DRILLING MEETS ASTM D-2113 Groundwater At 6.0 ft At Time Of Boring Stabilized Groundwater At 5.9 ft. No Drilling Water Loss

UNDISTURBED SAMPLE WATER 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 NO. B-246

DATE DRILLED 4-10-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------------|-------|---------|--------|
| 0 | | | 605.6 | | |
| 6.0 | Very Stiff Brown Red Micaceous Fine To Coarse Sandy Silty Clay | | 600.6 | N=17 | |
| 15.0 | Loose To Firm Tan Orange To Brown Gray Micaceous Very Silty Fine To Coarse Sand | | 595.6 | N=8 | |
| | | | 590.6 | N=11 | |
| 26.0 | Firm To Loose Tan Orange To Brown Gray Micaceous Very Silty Fine To Coarse Sand | | 585.6 | N=12 | |
| | | | 580.6 | N=8 | |
| 30.0 | Stiff Red Tan Micaceous Fine To Coarse Sandy Clayey Silt | | 575.6 | N=14 | |
| | | | 570.6 | N=11 | |
| 40.0 | Stiff To Very Stiff Green Brown Fine To Medium Sandy Micaceous Silt | | 565.6 | N=24 | |

Page 1 of 3

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8118
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.O.D. ROCK QUALITY DESIGNATION

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

BORING NO. B-247
 DATE DRILLED 4-10-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|-----------|---|---------------------------------|-------|-------------|--------|
| 40.0 | | | 565.6 | | |
| | Stiff To Very Stiff Green Brown Fine To Medium Sandy Micaceous Silt | | 560.6 | N=17 | |
| | | | 555.6 | N=29 | |
| | | | 550.6 | N=27 | |
| 56.0 | Hard Gray Brown Fine To Coarse Sandy Micaceous Silt | | 545.6 | N=69 | |
| 63.8 | Partially Weathered Rock That Becomes Gray Brown Fine To Coarse Sandy Micaceous Silt When Sampled | | 540.6 | N=50/3/4" | |
| 66.0 | Partially Weathered Rock That Becomes Tan Brown And Gray Micaceous Fine To Medium Sandy Silt When Sampled | | 535.6 | N=50/5" | |
| 72.8 | Partially Weathered Rock - No Recovery | | 530.6 | N=50/1 1/2" | |
| 80.0 | | | 525.6 | N=50/1" | |

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TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-8118
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-1/2 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER
 R.O.D. ROCK QUALITY DESIGNATION

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

BORING NO. B-247
 DATE DRILLED 4-10-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------|-------|---|-------------|
| 80.0 | Partially Weathered Rock - No Recovery | | | N=50/0" | |
| | | | 520.6 | | |
| | | | | N=50/0" | |
| 89.0 | Hard Very Light Gray Felsic Gneiss | NX 100 | 515.6 | Carbide Bit Refusal At 89.0 ft. 89.0 ft to 95.9 ft.: Moderate To Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep (Predominantly Medium) Dip. | 100 |
| | | 100 | 510.6 | | 100 |
| 95.9 | Coring Terminated At 95.9 ft. Groundwater At 11.1 ft. At Time Of Boring Stabilized Groundwater At 20.7 ft. No Drilling Water Loss | | 505.6 | | |

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.

TEST BORING RECORD

BORING NO. B-247
DATE DRILLED 4-10-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

L = LOW DIP 0-30°

M = MED. DIP 30-60°

S = STEEP DIP 60-90°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------|-------|---------|-------------|
| 0 | Very Stiff Brown Red Fine To Coarse Sandy Very Silty Clay | | | | |
| | | | 579.6 | N=25 | |
| 7.0 | Stiff Tan Pink Fine To Medium Sandy Micaceous Silt | | 574.6 | | |
| | | | | N=14 | |
| 13.0 | Loose To Very Dense Tan Gray Micaceous Silty Fine To Coarse Sand | | 569.6 | N=9 | |
| | | | 564.6 | N=12 | |
| | | | 559.6 | N=20 | |
| | | | 554.6 | N=24 | |
| | | | 549.6 | N=33 | |
| 40.0 | | | 544.6 | | |

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

TEST BORING RECORD

BORING NO. B-248
DATE DRILLED 4-11-74
JOB NO. CH 2920

BORING NO. B-248

DATE DRILLED 4-11-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

L = LOW DIP 0-30°

M = MED. DIP 30-60°

S = STEEP DIP 60-90°

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N = STANDARD PENETRATION LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|---|--------|
| 40.0 | Loose To Very Dense Tan Gray Micaceous Silty Fine To Coarse Sand | | 544.6 | N=47 | |
| | | | 539.6 | N=58 | |
| | | | 534.6 | N=64 | |
| 52.0 | Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine To Coarse Sand When Sampled | | 529.6 | N=50/2" | |
| 57.0 | Hard Green Tan Fine Sandy Micaceous Silt | | 524.6 | N=56 | |
| 63.8 | Hard To Very Hard Light Gray Felsic Gneiss | NX 100 | 519.6 | Carbide Bit Refusal At 63.8 ft. 63.8 ft to 69.7 ft. Slight To Very Slight Weathering. Very Close Healed Joints With Chlorite And Calcite, Rarely Leached - Low To Steep Dip. | 86 |
| 69.7 | Coring Terminated At 69.7 ft. Groundwater At 12.0 ft At Time Of Boring Stabilized Groundwater At 16.6 ft. No Drilling Water Loss | | 514.6 | Badly Broken Rock (63.8 to 65.0 ft) | |

BOHRING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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-248

DATE DRILLED 4-11-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|---------------------------------|-------|---------|--------|
| 0 | Very Stiff Tan Red Fine To Coarse Sandy Micaceous Silt | | 588.3 | N=19 | |
| 9.0 | Stiff Tan Brown Fine Sandy Micaceous Silt | | 578.3 | N=10 | |
| 14.5 | Very Stiff To Hard Tan Gray To Green Fine To Coarse Sandy Micaceous Silt | | 573.3 | N=16 | |
| | | | 568.3 | N=16 | |
| | | | 563.3 | N=26 | |
| | | | 558.3 | N=45 | |
| | | | 553.3 | N=32 | |
| 39.0 | Very Stiff To Hard Green To Tan * | | 548.3 | | |
| 40.0 | | | | | |

BOHRING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-5113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

*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.

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|----------------|-----------|-------|---|--------|
| 40.0 | Very Stiff To Hard Green To Tan Brown Fine To Medium Sandy Micaceous Silt | | | 548.3 | N=28 | |
| | | | | 543.3 | | |
| | | | | 538.3 | N=23 | |
| | | | | 533.3 | N=36 | |
| | | | | 528.3 | N=39 | |
| 59.0 | Partially Weathered Rock | | | 528.3 | N=50/1" No Recovery | |
| 64.9 | Hard To Moderately Hard Very Light Gray Felsic Gneiss | NX 73 | | 523.3 | Carbide Bit Refusal At 64.9 ft. 64.9 ft to 71.3 ft: Moderate To Slight Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 73 |
| | | 100 | | 518.3 | Thin, Steep Dip, Quartz Stringers: | 93 |
| 71.3 | Coring Terminated At 71.3 ft. Groundwater At 19.4 ft At Time Of Boring Hole Caved At 13.8 ft Before Taking 24 Hour Water Reading No Drilling Water Loss | | | | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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

Page 230 of 298

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--------------------------------|---------------------------------|-----------|-------|---------|--------|
| 0 | Drilled To Refusal At 40.0 ft. | | | 671.0 | | |
| | | | | 666.0 | | |
| | | | | 661.0 | | |
| | | | | 656.0 | | |
| | | | | 651.0 | | |
| | | | | 646.0 | | |
| | | | | 641.0 | | |
| | | | | 636.0 | | |
| | | | | 631.0 | | |
| 40.0 | | Carbide Bit Refusal At 40.0 ft. | | | | |

BORING AND SAMPLING MEETS ASTM D-1585
CORE DRILLING MEETS ASTM D-8115
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK CORE RECOVERY WATER TABLE, 1 HR.

N STANDARD PENETRATION LOSS OF DRILLING WATER

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.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|--------------|--|---------------------------------|-------|---------|--------|
| 40.0 | Medium And Moderately Hard Dark Gray And White Quartzite | NX 14 | | | 0 |
| | | 3 | | | 0 |
| 51.0 | Coring Terminated At 51.0 ft. No Drilling Water Loss | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.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-250A
DATE DRILLED 3-19-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.O.D. |
|--------------|---|---------------------------------|-------|--|--------|
| 0 | Drilled To Refusal At 42.5 ft. | | 621.9 | Angle Hole Drilled At 70°, N 74W | |
| 42.5 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 576.9 | Carbide Bit Refusal And Top Of Continuous Rock At 42.5 ft. | 95 |
| | | NX 98 | 571.9 | 42.5 to 153.1 ft.: Very Slight Weathering, Very Close Healed And Filled Joints With Calcite, Chlorite And Sericite - Low To Steep Dip. | 93 |
| | | NX 100 | 566.9 | Moderately To Slightly Weathered Zone (44.2 to 45.0 ft.) | 100 |
| | | NX 88 | 556.9 | Soil Zone - Core Loss (68.1 to 69.2 ft.) | 87 |
| | | NX 97 | 551.9 | Moderately To Moderately Severely Weathered Low Dip Schistose Zone (69.2 to 69.5 ft.) | 94 |
| | | NX 98 | 546.9 | 2 Inch Thick, Medium Dip, Leached Schistose Zone Of Sericite, Chlorite And Quartz (69.6 to 70.0 ft.) | |
| | | NX 98 | 541.9 | Steep Quartz Stringer (78.7 to 79.3 ft.) | 98 |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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.O.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-251
DATE DRILLED 4-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 541.9 ELEV. | REMARKS | % R.Q.D. | | | | |
|--------------|---|-------------------------------|----------------|---|-------------|--|--|--|--|
| 80.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX 98 | 536.9 | Calcite - Epidote Filling In Healed Joints (84.5 to 85.0 ft.) | 98 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Medium Dip Quartz, Calcite Enriched Zone (110.2 to 110.9 ft.) | NX 100 | 526.9 | | 100 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Steep Dip, Quartz, Calcite Stringers And Healed Joints (115.5 to 119.4 ft.) | NX 100 | 521.9 | | 97 | | | | |
| | | | | | | | | | |
| | | NX 100 | 516.9 | | 100 | | | | |
| | | | | | | | | | |
| | | NX 100 | 511.9 | | 100 | | | | |
| | | | | | | | | | |
| | | NX 100 | 508.9 | | 100 | | | | |
| | | | | | | | | | |
| 120.0 | | | 501.9 | | | | | | |

Page 2 of 3
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-251
DATE DRILLED 4-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 501.9 ELEV. | REMARKS | % R.Q.D. | | | | |
|--------------|--|-------------------------------|----------------|---------|-------------|--|--|--|--|
| 120.0 | Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 496.9 | | 100 | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Fine Grained Xenolith (128.1 ft.) Steep, Thin Calcite Vein, Slightly Schistose (128.5 to 129.2 ft.) Mafic Gneiss Xenolith (130.6 to 130.8 ft.) 1 inch Thick, Medium Dip Schistose Zone Filled With Calcite And Sericite (131.6 to 132.0 ft.) | NX 100 | 491.9 | | 100 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Steep Quartz - Sericite Stringers (148.8 to 149.5 ft.) Low Dip Schistose Zone Filled With Calcite, Chlorite And Sericite (150.7 to 150.9 ft.) | NX 100 | 486.9 | | 100 | | | | |
| | | | | | | | | | |
| | | NX 100 | 481.9 | | 98 | | | | |
| | | | | | | | | | |
| | | NX 100 | 476.9 | | 100 | | | | |
| | | | | | | | | | |
| | | NX 100 | 471.9 | | 100 | | | | |
| | | | | | | | | | |
| 153.1 | Coring Terminated At 153.1 ft. Drilling Water Loss At 46.0 ft And 61.5 ft. | | 466.9 | | | | | | |

Page 3 of 3
TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 NO. B-251
DATE DRILLED 4-30-74
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | DEPTH FT. |
|-----------|---|---------------------------|-------|--|-----------|
| 0 | Drilled To Refusal At 46.1 ft. | | | Angle Hole Drilled At 65°, N70W | |
| 46.1 | Hard Very Light Gray Felsic Gneiss | NX 99 | 577.7 | Carbide Bit Refusal And Top Of Continuous Rock At 46.1 ft. Slight Weathering (46.1 to 52.4 ft.) Thin, Low Dip Schistose Zone (47.6 ft.) | 89 |
| 52.4 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 567.7 | Very Close Healed And Slightly Leached Joints (46.1 to 55.0 ft.) Moderately Weathered Zone (49.1 to 49.9 ft.) Low To Medium Dip Quartzite Lenses: 55.9 ft. 56.1 ft. 57.1 to 57.3 ft. | 100 |
| | | | 562.7 | Very Slight Weathering (52.4 to 93.1 ft.) Steep Dip Healed Joints Filled With Calcite And Sericite: 61.2 to 61.6 ft. 63.4 to 63.7 ft. | |
| | | NX 96 | 557.7 | Irregular Pegmatitic Zone Of Quartz, Chlorite And Feldspar (66.5 ft.) Medium To Soft Severely Weathered Zone - Probable Location Of 0.4 ft Core Loss (69.4 to 70.2 ft.) | 90 |
| | | | 552.7 | Moderately Weathered Zone (71.0 to 71.8 ft.) | |
| | | NX 100 | 547.7 | 1 inch Thick, Medium Dip Leached Schistose Zone (71.1 to 71.3 ft.) | 98 |
| 80.0 | | | 542.7 | ¾ inch Thick Medium Dip Calcite Rich Schistose Zone (78.3 ft.) | |

Page 1 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1558
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 64 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°

BORING NO. B-252
 DATE DRILLED 5-1-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | DEPTH FT. |
|-----------|---|---------------------------|-------|--|-----------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 537.7 | Severely Weathered | 98 |
| | | NX 100 | 532.7 | Scattered Slightly Leached Quartz Stringers And Filled Joints (83.5 to 86.0 ft.) | 100 |
| 93.1 | Coring Terminated At 93.1 ft. Drilling Water Loss At 69.0 ft. | | 527.7 | | |

Page 2 of 2

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1558
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1/4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 64 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°

BORING NO. B-252
 DATE DRILLED 5-1-74
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|--|--------|
| 0 | Drilled To Refusal At 46.9 ft. | | 622.6 | Angle Hole Drilled At 69°, S40E | |
| 46.9 | Moderately Hard Very Light Gray Felsic Gneiss | NX 100 | 577.6 | Carbide Bit Refusal At 46.9 ft. Top Of Continuous Rock At 47.2 ft. Badly Broken Vein Quartz (46.9 to 47.2 ft.) 1/2 Inch. Steep Dip Leached Quartz Lens (49.5 to 50.3 ft.) 46.9 to 76.6 ft.: Slight To Moderate Weathering. Very Close Healed And Slightly Leached Joints - Low To Steep Dip. | 71 |
| | | NX 99 | 572.6 | | |
| | | NX 92 | 567.6 | | 66 |
| | | NX 98 | 562.6 | Moderately To Moderately Severely Weathered Zones: 48.0 to 49.0 ft. 49.5 to 50.0 ft. 53.8 to 54.2 ft. 54.7 to 55.0 ft. 57.4 to 58.0 ft. 62.0 to 63.1 ft. 63.9 to 64.2 ft. 68.0 to 68.4 ft. 75.4 to 75.9 ft. | 75 |
| | | NX 62 | 557.6 | Thin Leached Quartz Stringer (60.0 ft.) Fine Grained Xenoliths: 64.8 ft. 65.4 ft. | 43 |
| | | NX 100 | 547.6 | Variable Thickness Vertical Leached Quartz Vein With Surrounding Moderately To Moderately Severely Weathered Schistose Zone (70.3 to 74.1 ft.) Vertical Brecciated Zone Up To 2 Inches Thick Filled With Quartz, Feldspar, Chlorite And Calcite. | 95 |
| 16.6 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | | 542.6 | | |
| 10.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586

COAP DRILLING MEETS ASTM D-2112

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT. Evident.

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

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.

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|--|--------|
| 80.0 | Hard To Very Hard Light Bluish Gray Felsic Gneiss | NX 100 | 537.6 | Medium To Steep Dip Slightly Schistose Zone (83.2 to 84.5 ft.) 76.6 to 93.4 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. | 95 |
| | | NX 100 | 532.6 | | 100 |
| 93.4 | Coring Terminated At 93.4 ft. No Drilling Water Loss | | 527.6 | | |

BORING AND SAMPLING MEETS ASTM D-1586

COAP DRILLING MEETS ASTM D-2112

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. 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

Page 2 of 2

TEST BORING RECORD

BORING NO. B-253

DATE DRILLED 5-3-74

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

| DEPTH FT. | DESCRIPTION | CORE SIZE | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-----------|-----------|-------|---|--------|
| 0 | Drilled To Refusal At 43.1 ft. | | | 622.1 | Angle Hole Drilled At 70°, N85E | |
| 43.1 | Hard To Very Hard Very Light Gray To Light Bluish Gray Felsic Gneiss | NX 100 | | 577.1 | Carbide Bit Refusal And Top Of Continuous Rock At 43.1 ft. | 91 |
| | | NX 91 | | 572.1 | 43.1 to 65.2 ft.: Slight To Very Slight Weathering. Very Close Healed And Slightly Leached Joints - Low to Steep Dip. Probable Location Of 0.8 ft. Core Loss (47.6 to 48.4 ft.) | 83 |
| | | NX 100 | | 567.1 | | 97 |
| | | NX 100 | | 562.1 | | |
| | | NX 100 | | 557.1 | Badly Broken Rock (62.9 to 63.7 ft.) Medium To Moderately Weathered Zone (64.6 to 65.2 ft.) 1 Inch Thick, Very Steep, Schistose Zone, Slightly Brecciated (66.3 to 67.0 ft.) 65.2 to 100.8 ft.: Very Slight Weathering. Very Close Healed Joints - Low To Steep Dip. Vertical Quartz - Calcite Stringer (75.7 to 79.3 ft.) 1 Inch Thick Quartz Filled Brecciated Zone, Nearly Vertical But Curving With Sericite, Calcite And Chlorite (77.2 to 79.5 ft.) | 100 |
| | | NX 100 | | 547.1 | | |
| | | NX 100 | | 542.1 | | 94 |

| 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 | | 537.1 | Rock Is Schistose And Dip Is Highly Variable (77.0 to 87.5 ft.) Leached Steep Quartz Stringer (81.0 ft.) 1 Inch Brecciated Zone Dipping 40° With Reverse Drag (86.0 ft.) 1 Inch Brecciated Zone Dipping 70° With Minor Normal Drag (86.2 to 86.7 ft.) Quartzite Lens (90.3 to 90.6 ft.) 1/2 Inch Brecciated Zone Dipping 40° (90.6 to 90.8 ft.) Fine Grained Felsic Gneiss (92.3 to 92.7 ft.) Irregular Quartz Pegmatite Vein Up To 1 Inch Thick (96.0 to 96.4 ft.) Fine Grained Xenoliths: 97.7 to 98.0 ft. 99.2 to 99.8 ft. | |
| | | NX 100 | | 532.1 | | |
| | | NX 100 | | 527.1 | | |
| | | NX 100 | | 522.1 | | |
| 100.8 | Coring Terminated At 100.8 ft. Drilling Water Loss At 44.8 ft. | | | | | |

BORING AND SAMPLING MEETS ASTM D-1899
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 1 of 2
TEST BORING RECORD

BORING NO. B-254
 DATE DRILLED 5-7-74
 JOB NO. CH 2920

L = LOW DIP 0-30°
 M = MED. DIP 30-60°
 S = STEEP DIP 60-90°
 LAW ENGINEERING TESTING CO.

BORING AND SAMPLING MEETS ASTM D-1899
 CORE DRILLING MEETS ASTM D-5115
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N = STANDARD PENETRATION LOSS OF DRILLING WATER
 R.Q.D. ROCK QUALITY DESIGNATION

Page 2 of 2
TEST BORING RECORD

BORING NO. B-254
 DATE DRILLED 5-7-74
 JOB NO. CH 2920

L = LOW DIP 0-30°
 M = MED. DIP 30-60°
 S = STEEP DIP 60-90°
 LAW ENGINEERING TESTING CO.

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 Charakas

HRS. DRILLING 25 HRS. MOVING

DATE: 8/6/74

WEATHER CLOUDLY DRILLER V. COLVEN

BORING NO. PIT # 9

| SAMPLING | | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS | TIME |
|----------|------|------------|-----|-------|----|---|-------|
| 1ST' | 2ND' | 3RD' | | | | | |
| | | | | 0 | | 8/6/74 MOVED DRILL ON HOLE AND SETUP | |
| 4.5' | RUN | 100% | REC | | | 8/7/74 STARTED AT 7:00 (DRILL BROKE DOWN, NEEDED WELDER TO CUT PIECE FROM ROOM) | |
| 4.5' | REC | | | | | CORING RATE FOR FIRST RUN WAS 35 MIN 300 LBS PRE. | |
| | | RQD = .64 | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE | |
| | | | | | | END RUN 4.5 WITH SLIGHTLY WEATHERED SEAM | |
| | | | | 5 | | 8/8/74 VERTICAL JOINTS @ 12'-1.5'-1.8'-2.1' | |
| | | | | | | CORING RATE | |
| | | | | | | 100% WATER LOSS AT 4.6 (4000 LBS PRE) | 4:05 |
| 9.9 | RUN | 95% | REC | | | SLIGHT/VERY SLIGHTLY WEATHERED | 3:00 |
| 9.4 | REC | | | | | HARD/VERY HARD GRANITE W/ SLIGHTLY | 3:10 |
| | | RQD = .70 | | | | WEATHERED SEAMS (VERY SOFT SEAM FROM 10.5'-11.1' | |
| | | | | 10 | | STEEL FALL .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 | | | FRESH/VERY SLIGHTLY WEATHERED | |
| 9.9 | REC | | | | | HARD/VERY HARD GRANITE | |
| | | RQD = .99 | | | | W/ SLIGHTLY WEATHERED SEAM | |
| | | | | 20 | | | |
| | | | | | | CORE RATE | |
| | | | | | | 4000 LBS PRE | 6:45 |
| | | | | 25 | | END RUN 24.3' | |
| 10.0' | RUN | 100% | REC | | | FRESH/VERY SLIGHTLY WEATHERED | |
| 10.0' | REC | | | | | HARD/VERY HARD GRANITE | |
| | | RQD = 1.00 | | | | | |
| | | | | 30 | | | |
| | | | | | | MINI SEC | |
| | | | | | | 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 <u>NA</u> | TO |
| HAND CHOP: W/MUD: W/WATER <u>NA</u> | TO |
| ROTARY DRILL: W/MUD: W/WATER <u>NA</u> | TO |
| DIAMOND CORE <u>0.0</u> | TO <u>99.65</u> |

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 GANNETT Charoban

HRS. DRILLING 25 HRS. MOVING 0

DATE: 8/8/74 WEATHER CLOUDLY

DRILLER J. QUIENS BORING NO. NY HOLE BIT 09

| SAMPLING | | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS |
|----------|----------|------|-----|-------|----|---|
| 1ST | 2ND | 3RD | 4TH | | | |
| 10.0' | RUN | 100% | REC | 40 | | FRESH/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE CORE RATE 6:55 |
| 10.0' | REL | | | | | 8/9/74 NO FOOTAGE DUE TO RAIN 7:05 |
| | ROD=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 HARD/VERY HARD GRANITE CORE RATE 7:05 |
| 9.95 | REC | | | 50 | | VERTICAL JOINT @ 47.2'-47.5' (CHANGED FROM D-3 CORE BARREL TO NXM CORE BARREL DUE TO SHORTAGE OF D-3 BITS) 7:30 |
| | ROD=.97 | | | | | END RUN 54.25' |
| 10.1 | RUN | 100% | REC | | | FRESH/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE CORE RATE 6:50 |
| 10.1 | REC | | | 60 | | 7:10 |
| | ROD=.97 | | | | | END RUN 64.35 |
| 5.3 | RUN | 100% | REC | | | FRESH/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE CORE RATE 8:30 |
| 5.3 | REC | | | 70 | | 8:10 |
| | ROD=.98 | | | | | END RUN 69.65 |
| 10.0 | RUN | 100% | REC | | | FRESH/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE CORE RATE 8:30 |
| 10.0 | REC | | | 75 | | 8:10 |
| | ROD=1.00 | | | | | END RUN 79.65 |

| | | |
|---|--|----------------------------|
| BORING TERMINATED: <u>99.65</u> | METHOD OF ADVANCING BORING | DEPTH |
| BORING REFUSAL: <u>0</u> | POWER AUGER <u>NA</u> | TO |
| WATER TOB DEPTH _____ | HAND CHOP: W/MUD: W/WATER <u>NA</u> | TO |
| WATER 24 HR: DEPTH _____ | ROTARY DRILL: W/MUD: W/WATER <u>NA</u> | TO |
| WATER LOSSES _____ | DIAMOND CORE | <u>0.0</u> TO <u>99.65</u> |
| CASING SIZE <u>NONE</u> LENGTH <u>0</u> | | |

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X 81 B

SOIL TEST BORING FIELD REPORT

INSPECTOR C. H. McMAHAN

STARTING TIME 2:30

JOB NO. X 81 B

GROUND SURFACE ELEV. 581.89

JOB NAME GAFFNEY Checkee

HRS. DRILLING 25 HRS. MOVING N/A

DATE: 8/10/74 WEATHER CLEAR

DRILLER J. OWEN S BORING NO. BIT 307

| SAMPLING | | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS |
|-----------|-----|------|-----|-------|----|-------------------------------------|
| 1ST | 2ND | 3RD | N | | | |
| | | | | 80 | | |
| 5.0 | RUN | 100% | REC | | | FRESH / VERY SLIGHTLY |
| 5.0 | REC | | | | | HARD / VERY HARD GRANITE |
| ROD = 100 | | | | | | |
| | | | | 85 | | END RUN 84.65 |
| | | | | | | 8/13/74 STARTED DRILL AT 10:30 |
| | | | | 90 | | |
| 10.0 | RUN | 100% | REC | | | FRESH / VERY SLIGHTLY WEATHERED |
| 10.0 | REC | | | | | HARD / VERY HARD GRANITE |
| ROD = 100 | | | | | | |
| | | | | 95 | | END RUN 94.65 |
| 5.0 | RUN | 100% | REC | | | FRESH / VERY SLIGHTLY WEATHERED |
| 5.0 | REC | | | | | HARD / VERY HARD GRANITE (CORE RATE |
| ROD = 100 | | | | | | 7:00 |
| | | | | 100 | | END RUN 99.65 |
| | | | | | | 6:45 |
| | | | | | | HOLE TERMINATED |
| | | | | | | 8/13/74 |
| | | | | 105 | | |
| | | | | 110 | | |
| | | | | 115 | | |
| | | | | 120 | | |

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE

| | | |
|---|--|----------------------------|
| BORING TERMINATED: <u>99.65</u> | METHOD OF ADVANCING BORING | DEPTH |
| BORING REFUSAL: <u>0</u> | POWER AUGER <u>NA</u> | TO |
| WATER TOB DEPTH | HAND CHOP: W/MUD: W/WATER <u>NA</u> | TO |
| WATER 24 HR: DEPTH | ROTARY DRILL: W/MUD : W/WATER <u>NA</u> | TO |
| WATER LOSSES <u>100%</u> | DIAMOND CORE | <u>0.0</u> TO <u>99.65</u> |
| CASING SIZE <u>100%</u> LENGTH <u>0</u> | | |

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): 2.5% + 2.5% = 5% RA

7/2/82

Signed: _____ Date: _____
(Foreman)

(10) General Foreman's Comment and Approval: See U

7/2/82

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.

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X81B

SOIL TEST BORING FIELD REPORT

INSPECTOR C.H.M. MAHAI

STARTING TIME 7:30

JOB NO. X81B

GROUND SURFACE ELEV. 580.79

JOB NAME CHEORKEE

HRS. DRILLING _____ HRS. MOVING _____

DATE: 8/16/74 WEATHER CLEAR

DRILLER J. JAMES BORING NO. B-263

| SAMPLING | | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS |
|----------|-----------|------|--|-------|----|--|
| 1ST' | ENDS' | 3RD' | | | | |
| 2.6 | RUN 100.5 | REC | | 0 | | SLIGHT/VERY SLIGHTLY WEATHERED |
| 2.6 | REC 1.00 | R2D | | | | HARD/VERY HARD GRANITE END RUN 2.6' |
| 2.5 | RUN 100.5 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED |
| 2.5 | REC 1.00 | R2D | | | | HARD/VERY HARD GRANITE |
| 2.3 | RUN 100.5 | REC | | 5 | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 2.3 | REC 1.00 | R2D | | | | END RUN 8.1' (100% WATER LOSS) VERTICAL BREAK @ 5.5'-7.0' |
| 2.7 | RUN 74.5 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 2.7 | REC 7.4 | R2D | | | | END RUN 9.4' (FROM 9.1'-10.1') VERTICAL JOINT @ 7.7'-8.1' (SAFE 20"-10") |
| 2.3 | RUN 100.5 | REC | | 10 | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 2.3 | REC 1.00 | R2D | | | | END RUN 10.1' |
| 2.4 | RUN 12.0 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 2.4 | REC 1.20 | R2D | | | | END RUN 14.6' |
| 1.9 | RUN 1.00 | REC | | 15 | | START DRILL AT 7:30 (8-26-74) (400' P.D. 31-34) (400' HOLE) STARTED DRILL AT 7:30 (8-26-74) |
| 1.9 | REC 1.00 | R2D | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE STARTED DRILL AT 7:30 (8-26-74) |
| 4.6 | RUN 100.5 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED |
| 4.6 | REC 1.20 | R2D | | 20 | | HARD/VERY HARD GRANITE END RUN 21.3' 8-26-74 STARTED DRILL AT 11:00 |
| 1.4 | RUN 100.5 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 1.4 | REC 1.00 | R2D | | | | END RUN 22.7' |
| 4.4 | RUN 100.5 | REC | | 25 | | SLIGHT/VERY SLIGHTLY WEATHERED |
| 4.4 | REC 1.00 | R2D | | | | HARD/VERY HARD GRANITE END RUN 27.1' 8-27-74 STARTED DRILL AT 7:30 |
| 2.0 | RUN 100.5 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD |
| 2.0 | REC 1.00 | R2D | | | | END RUN 20.1' GRANITE |
| 1.8 | RUN 100.5 | REC | | 30 | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY |
| 1.8 | REC 1.00 | R2D | | | | HARD GRANITE END RUN 30.9' 8-28-74 (STARTED) DRILL AT 7:30 |
| 5.1 | RUN 100.5 | REC | | 35 | | SLIGHT/VERY SLIGHTLY HARD/VERY HARD |
| 5.1 | REC 1.00 | R2D | | | | GRANITE END RUN 36.0' |
| 1.8 | RUN 100.5 | REC | | | | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 1.8 | REC 1.00 | R2D | | | | END RUN 37.9' |
| 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: <u>59.7</u> | METHOD OF ADVANCING BORING | DEPTH |
| BORING REFUSAL: _____ | POWER AUGER | TO |
| WATER TOB DEPTH _____ | HAND CHOP: W/MUD: W/WATER | TO |
| WATER 24 HR: DEPTH _____ | ROTARY DRILL: W/MUD: W/WATER | TO |
| WATER LOSSES _____ | DIAMOND CORE | TO |
| CASING SIZE _____ LENGTH _____ | | 2.0 TO <u>59.7</u> |

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT X 81B

SOIL TEST BORING FIELD REPORT

INSPECTOR C H McMAHAN

STARTING TIME 7:30

JOB NO. X 81B

GROUND SURFACE ELEV. 580.79

JOB NAME GATHELY Cherokee

HRS. DRILLING _____ HRS. MOVING _____

DATE: 8-29-74 WEATHER CLEAR

DRILLER JACK PARTON BORING NO. B-263

| SAMPLING | | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS |
|----------|-----|------|-----|-------|----|---|
| 1ST | 2ND | 3RD | N | | | |
| 4.0 | RUN | 100% | REC | 40 | EX | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 4.1 | REC | 1.00 | RBD | | | 41.5 |
| 1.8 | RUN | 100% | REC | 42.8 | ↓ | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 1.8 | REC | 1.00 | RBD | | | 43.8 |
| 5.05 | RUN | 100% | REC | 45 | | SLIGHT/VERY SLIGHTLY WEATHERED |
| 5.05 | REC | 1.00 | RBD | | | |
| 2.0 | RUN | 100% | REC | 50 | ↓ | 9/9/74 STARTED DRILL AT 7:30 (FINISHED RUN PREPARED FOR TEST) |
| 2.0 | REC | 1.00 | RBD | | | 52.7 |
| 1.45 | RUN | 100% | REC | 53.4 | ↓ | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 1.45 | REC | 1.00 | RBD | | | 53.4 |
| 1.6 | RUN | 100% | REC | 55 | ↓ | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 1.6 | REC | 1.00 | RBD | | | 56.0 |
| 2.55 | RUN | 100% | RUN | 57.8 | ↓ | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 2.55 | REC | 1.00 | REC | | | 57.8 |
| 1.8 | RUN | 90% | REC | 59.5 | ↓ | SLIGHT/VERY SLIGHTLY WEATHERED HARD/VERY HARD GRANITE |
| 1.6 | REC | 1.00 | RBD | | | 59.5 |
| | | | | | | HOLE TERMINATED 59.7' |
| | | | | | | LOG ON OVER CORING HOLE AT Cherokee NUCLEAR |
| | | | | | | 6" Hole with Sections of EX hole for Test. |
| | | | | | | TEST PIT # 9 |

+ STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 6" AND 3RD 6" TO DRIVE

| | | |
|--------------------------------|------------------------------|-------------|
| BORING TERMINATED: <u>59.7</u> | METHOD OF ADVANCING BORING | DEPTH |
| BORING REFUSAL: _____ | POWER AUGER | TO |
| WATER TOB DEPTH _____ | HAND CHOP: W/MUD: W/WATER | TO |
| WATER 24 HR. DEPTH _____ | ROTARY DRILL: W/MUD: W/WATER | TO |
| WATER LOSSES _____ | DIAMOND CORE | 0.0 TO 59.7 |
| CASING SIZE _____ LENGTH _____ | | |

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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.

Page 1 of 3

TEST BORING RECORD

BORING NO. B-280

DATE DRILLED 1-15-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

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°

597.2

CORE
% & TIME
SIZE MIN. ELEV.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---------------------------------|--------|
| 40.0 | Firm Tan, Purple, Gray, Orange And Black Micaceous Silty Fine To Medium Sand | | 592.2 | N=26 | |
| | | | 587.2 | N=28 | |
| | | | 582.2 | N=23 | |
| 56.0 | Partially Weathered Rock That Becomes Black And Gray Silty Fine To Coarse Sand When Sampled. | | 577.2 | N=50/4 1/2" | |
| 62.0 | Firm To Dense Tan Brown, And Gray Micaceous Silty Fine To Coarse Sand | | 572.2 | N=36 | |
| | | | 567.2 | N=24 No Recovery | |
| 71.0 | Partially Weathered Rock That Becomes Brown And Gray Micaceous Silty Fine To Coarse Sand When Sampled | | 562.2 | N=50/4" N=50/1" No Recovery | |
| 76.2 | Hard Medium Gray Felsic Gneiss | NX | | Carbide Bit Refusal At 76.2 ft. | |
| 80.0 | | 95 | 557.2 | | 61 |

BORING AND SAMPLING MEETS ASTM D-1588
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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-280
DATE DRILLED 1-15-76
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------|-------|---|--------|
| 80.0 | Hard Medium Gray Felsic Gneiss | NX | 557.2 | Slight To Very Slight Weathering (76.2 to 89.8 ft.) | 98 |
| | | 100 | 552.2 | | |
| 89.8 | 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 | | 547.2 | | |

BORING AND SAMPLING MEETS ASTM D-1588
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 3 of 3

TEST BORING RECORD

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°

BORING NO. B-280

DATE DRILLED 1-15-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

CORE NO. 605.3
 % @ TIME SIZE MIN. ELEV.

| DEPTH FT. | DESCRIPTION | 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 | | |
| 40.0 | | 565.3 | |

BORING AND SAMPLING MEETS ASTM D-1988
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 1 of 3

TEST BORING RECORD

BORING NO. B-281
 DATE DRILLED 1-21-76
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

565.3

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R Q D |
|--------------|---|-------------------------------|-------|----------------------|-------|
| 40.0 | Very Stiff Brown Gray Micaceous Fine To Medium Sandy Silt | | | N=16 | |
| 40.0 | 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 | | |
| 80.0 | | | 525.3 | | |

BORING AND SAMPLING MEETS ASTM D-1886
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-1/4 IN. I.D. SAMPLER 1 FT.
 [Symbol] UNDISTURBED SAMPLE [Symbol] WATER TABLE. 24 HR.
 [Symbol] ROCK CORE RECOVERY [Symbol] WATER TABLE. 1 HR.
 N = STANDARD PENETRATION [Symbol] 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-281
 DATE DRILLED 1-21-76
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. 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 | Medium Blue Gray To Light Gray Felsic Gneiss | NX 100 | | 520.3 | Carbide Bit Refusal At 84.6 ft. 84.6 to 90.1 ft.: Moderately Severe Weathering. Some Leaching. | 91 |
| 90.1 | Moderately Hard To Hard Blue Gray To Light Gray Felsic Gneiss | | | 515.3 | Slight Weathering (90.1 to 98.7 ft.) | |
| | | 98 | | 510.3 | | 87 |
| 98.7 | Coring Terminated At 98.7 ft. No Water Losses Groundwater At 35.7 ft After 24 Hours | | | 505.3 | | |

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°

Page 3 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 % & TIME SIZE MIN. | 597.2 ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|----------------|---|--------|
| 0 | Stiff Brown Red Micaceous Fine To Coarse Sandy Clayey Silt | | | | |
| 4.5 | Dense Gray Tan Micaceous Silty Fine To Coarse Sand | | 592.2 | N=13 | |
| 9.5 | Loose Brown Gray Micaceous Very Silty Fine To Coarse Sand | | 587.2 | N=37 | |
| 17.7 | Partially Weathered Rock That Becomes Brown Tan Gray Micaceous Silty Fine To Coarse Sand When Sampled | | 582.2 | N=31 | |
| 27.3 | Moderately Hard To Hard Blue Gray To Light Gray Felsic Gneiss | NX 81 | 577.2 | N=9 | |
| 32.9 | Hard Bluish Gray To Dark Gray Mafic Gneiss | 99 | 572.2 | N=50/6" | |
| 36.6 | Hard Bluish Gray To Medium Gray Felsic Gneiss | | 567.2 | N=50/3 1/2" | |
| 39.5 | | | 562.2 | | |
| | | | 557.2 | | |
| | | | | Carbide Bit Refusal At 27.3 ft. | |
| | | | | 100% Moderately Severe To Slight Weathering (27.3 to 29.7 ft) | 38 |
| | | | | Moderate To Very Slight Weathering (29.7 to 39.5 ft.) | 98 |
| | | | | Completely Weathered Zone (35.0 ft.) | |

BORING AND SAMPLING MEETS ASTM D-1986 *Coring Terminated At 39.5 ft.
 CORE DRILLING MEETS ASTM D-813 100% Drilling Water Loss At 29.2 ft.±
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER Caved And Wet At
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT. 17.5 ft After 24 Hours

Page 1 of 1

TEST BORING RECORD

UNDISTURBED SAMPLE WATER TABLE, 24 HR.

ROCK JOINT:

BORING NO. B-285

ROCK CORE RECOVERY WATER TABLE, 1 HR.

L = LOW DIP 0°-30°

DATE DRILLED 1-28-76

STANDARD PENETRATION LOSS OF DRILLING WATER

M = MED. DIP 30°-60°

JOB NO. CH 2920

R.Q.D. ROCK QUALITY DESIGNATION

S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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 | |
| | | | | N=38 | |
| 33.0 | Hard Tan And Gray Micaceous Fine To Medium Sandy Silt | | | | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1986
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 1 of 4

TEST BORING RECORD

BORING NO. B-287
 DATE DRILLED 7-22-75
 JOB NO. CH 2929

UNDISTURBED SAMPLE WATER 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°

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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 | | | | | |

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS 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°

BORING NO. B-287
 DATE DRILLED 7-22-75
 JOB NO. CH 2920

LAW ENGINEERING TESTING CC

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|----------------------|--------------|-------|---|--------|
| 80.0 | Hard Dark Gray Orange Tan Olive Micaceous Silt | | | | N=51 | |
| 88.0 | Partially Weathered Rock That Becomes Dark Gray And Brown Micaceous Silt When Sampled | | | | N=75 | |
| 93.0 | Wash Drilled To Refusal With No Sampling | | | | N=50/4½" | |
| 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 | | | | | | |

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TEST BORING RECORD

BORING NO. B-287
DATE DRILLED 7-22-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CO

BORING AND SAMPLING MEETS ASTM D-1886
CORE DRILLING MEETS ASTM D-8118
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. 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°

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE 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.

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TEST BORING RECORD

BORING NO. B-287
DATE DRILLED 7-22-75
JOB NO. CH 2920

LAW ENGINEERING TESTING CC

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°

CORE 579.8
 SIZE & TIME MIN. ELEV.

R.Q.D.

| DEPTH FT. | DESCRIPTION | CORE SIZE | TIME MIN. | 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.) | 36 |
| | | 100 | | | Badly Broken Rock (30.5 to 31.5 ft.) | |
| | | 97 | | 539.8 | Soft, Severely Weathered Zone (33.3 to 33.6 ft.) | 35 |
| 40.0 | | | | | | 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.
 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-289
 DATE DRILLED 6-27-75
 JOB NO. CH 2920

LAW ENGINEERING TESTING CC

CORE 539.8
% & TIME ELEV.
SIZE MIN.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R O 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-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

BORING NO. B-289
DATE DRILLED 6-27-75
JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO

| DEPTH FT. | DESCRIPTION | CORE SIZE | TIME MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|--------------|--------------|-------|---|--------|
| 0 | Very Stiff Tan And Gray Fine To Medium Sandy Silty Clay | | | 574.3 | N=16 | |
| | | | | 569.3 | | |
| 10.2 | Firm Dark Brown Very Micaceous Silt | | | 564.3 | N=7 | |
| 15.7 | Partially Weathered Rock That Becomes Gray Slightly Micaceous Slightly Silty Fine To Coarse Sand When Sampled | | | 559.3 | N=50/3" | |
| 20.4 | Moderately Hard To Hard Light Gray | NX 25 | | | N=50/3" No Recovery Carbide Bit Refusal At 20.4 ft. | |
| 24.0 | Hard Medium Light Gray | 100 | | 554.3 | 20.4 to 24.8 ft.: Moderate To Slight Weathering Medium Very Close To Close Joints | .4 |
| | | 100 | | 549.3 | 24.8 to 34.6 ft.: Slight Weathering Xenolith At 29.2 ft. | 2.7 |
| | | 100 | | 544.3 | | 100 |
| 34.8 | Coring Terminated At 34.8 ft. Complete Water Loss At 21.0 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.

Page 1 of 1

TEST BORING RECORD

BORING NO. B-290
 DATE DRILLED 6-30-75
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO

UNDISTURBED SAMPLE WATER 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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|-------|--|-------------|
| 0 | Very Stiff Reddish Brown Slightly Sandy Clayey Silt | | 607.5 | | |
| | | | 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 | | |

BORING AND SAMPLING MEETS ASTM D-1586 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.

Page 1 of 2

TEST BORING RECORD

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

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S = STEEP DIP 60°-90°

BORING NO. B-291
 DATE DRILLED 6-25-75

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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.

Page 2 of 2

TEST BORING RECORD

UNDISTURBED SAMPLE WATER TABLE, 24 HR. ◀ ROCK JOINT:
 30% 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°

BORING NO. B-291
 DATE DRILLED 6-25-75
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.
 Appendix 2BB, Rev. 2

597.4

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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 | |
| 30.5 | Partially Weathered Rock That Becomes Light Gray And Tan Silty Fine To * | | 567.4 | N=50/3" | |
| 32.6 | Hard To Very Hard Bluish White Felsic Gneiss | NX 100 | 562.4 | Carbide Bit Refusal And Probable Top Of Continuous Rock At 32.6 ft. | 100 |
| | Medium Sand | 100 | 557.4 | 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 |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1886 * 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 CORE RECOVERY WATER TABLE. 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER

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.

R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|-------|---------------------------------|-------------|
| 40.0 | Hard To Very Hard Bluish White Felsic Gneiss | 100 | 557.4 | Mafic Gneiss (34.8 to 35.0 ft.) | 100 |
| 44.9 | Coring Terminated At 44.9 ft. Stabilized Groundwater At 20.0 ft. No Drilling Water Loss Stabilized Groundwater At 20.0 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.

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TEST BORING RECORD

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

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S = STEEP DIP 60°-90°

BORING NO. B-292

DATE DRILLED 6-26-75

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE S. & T. TIME SIZE MIN. ELEV. | | REMARKS | R.Q.D. |
|--------------|--|---|-------|---------|--------|
| | | | 611.4 | | |
| 0 | Stiff Brown Purple Micaceous Fine To Medium Sandy Silt | | 606.4 | N=13 | |
| 8.0 | Stiff To Very Stiff Purple Brown Micaceous Fine Sandy Silt | | 601.4 | N=16 | |
| | | | 596.4 | N=13 | |
| | | | 591.4 | N=13 | |
| 23.0 | Stiff Green Tan Micaceous Fine Sandy Silt | | 586.4 | N=12 | |
| 27.0 | Stiff Green Tan Micaceous Fine To Medium Sandy Silt | | 581.4 | N=13 | |
| 33.0 | Stiff Green Tan Micaceous Fine Sandy Silt | | 576.4 | N=14 | |
| 38.0 | Very Stiff Gray Tan Micaceous Fine To Medium Sandy Silt | | 571.4 | N=17 | |
| 40.0 | | | | | |

BORING AND SAMPLING NEEDS ASTM D-1586
 CORE DRILLING NEEDS 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.
 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°

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TEST BORING RECORD

BORING NO. B-293
 DATE DRILLED 7-19-73
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE S. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|--------------------------------|-------|---|-------------|
| 40.0 | Very Stiff Gray Tan Micaceous Fine To Medium Sandy Silt | | 571.4 | | |
| 43.0 | Very Stiff Tan Micaceous Fine To Medium Sandy Silt | | 566.4 | N=24 | |
| 48.0 | Very Stiff Gray Brown Micaceous Fine To Medium Sandy Silt | | 561.4 | N=18 | |
| 53.0 | Dense Gray Brown Micaceous Very Silty Fine To Coarse Sand | | 556.4 | N=44 | |
| 58.0 | Dense Gray Tan Micaceous Silty Fine To Coarse Sand | | 551.4 | N=33 | |
| 62.0 | Partially Weathered Rock That Becomes Tan Gray Micaceous Fine To Coarse Sand When Sampled | | 546.4 | N=50/4 1/2" | |
| | | | 541.4 | N=50/1 1/2" | |
| 71.0 | Partially Weathered Rock That Becomes Brown Tan Micaceous Fine To Medium Sandy Silt When Sampled | | 536.4 | N=50/5" | |
| 76.2 | Medium To Hard Light Gray Felsic Gneiss | NX 86 | | Carbide Bit Refusal At 76.2 ft. Severe To Slight Weathering | 0 |
| 80.0 | | | 531.4 | | |

BORING AND SAMPLING MEETS ASTM D-1686
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°
 H = STEEP DIP 60-90°

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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 NO. & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|---------------------------|-------|--|----------|
| 80.0 | Medium To Hard Light Gray Felsic* | NX 86 | | Complete To Severe Weathering (81.0 to 83.1 ft.) | 0 |
| 81.0 | Very Soft To Medium Brown Gray Felsic Gneiss | | | | |
| 83.1 | Soft To Hard Light Gray Felsic Gneiss | 59 | 526.4 | Complete To Moderate Weathering (83.1 to 89.5 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 |
| | | | | | |
| 99.4 | Coring Terminated At 99.4 ft. No Drilling Water Loss | | 516.4 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | 511.4 | | |

BORING AND SAMPLING MEETS ASTM D-1886. *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 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

Page 3 of 3

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 % & TIME SIZE 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 | |
| 40.0 | | | 566.9 | | |

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TEST BORING RECORD

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

BORING NO. B-294
 DATE DRILLED 2-23-76
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|---------------------------------|-------|--|---------|
| 40.0 | Firm Gray Tan Pink To Gray Tan Micaceous Very Silty Fine To Coarse Sand | | 566.9 | N=13 | |
| | | | 561.9 | | |
| | | | 556.9 | N=37 Blow Count Magnified By Weathered Rock Fragments | |
| | | | 551.9 | N=15 | |
| | | | | 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=50/1/2" | |
| 65.7 | Hard To Very Hard Medium Light Gray Felsic Gneiss | NX 88 50 | 536.9 | Carbide Bit Refusal At 65.7 ft. Very Slight Weathering (65.7 to 68.0 ft.) 1/4 Inch Quartz Zone - Steeply Dipping | 59 0 |
| | | 100* | | Fresh (68.0 to 74.5 ft) | 100 |
| 72.0 | Very Hard Medium Dark Gray And Dark Green Gray Mafic Gneiss (Amphibolite) | | 531.9 | | |
| 74.5 | Coring Terminated At 74.5 ft. Boring Caved At 23.0 ft After 24 Hours | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 *Actual Run To 77.9 ft - Core Left In Hole From 74.5 to 77.9 ft.
 CORE DRILLING MEETS ASTM D-2112 Page 2 of 2

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

TEST BORING RECORD

BORING NO. B-294
 DATE DRILLED 2-23-76
 JOB NO. CH 2920

 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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|--|-------------------------------|-------|---------|--------|
| 0 | Firm Tan Orange Micaceous Clayey Very Silty Fine To Coarse Sand | | | | |
| 4.0 | Firm To Loose Pink Orange Tan To Gray Tan Micaceous Very Silty Fine To Coarse Sand | | 596.6 | N=16 | |
| | | | | N=11 | |
| | | | | N=12 | |
| | | | 591.6 | N=12 | |
| | | | | N=11 | |
| | | | 586.6 | N=10 | |
| | | | | N=10 | |
| | | | 581.6 | N=9 | |
| | | | | N=10 | |
| | | | 576.6 | N=9 | |
| | | | | N=25 | |
| | | | 571.6 | | |
| 34.0 | Firm To Gray Tan Micaceous Very Silty Fine To Coarse Sand | | 566.6 | | |
| 39.0 40.0 | Partially Weathered Rock That Becomes* | | 561.6 | | |

BORING AND SAMPLING MEETS ASTM D-1888 *Gray Tan Micaceous Slightly Silty
 CORE DRILLING MEETS ASTM D-2113 Fine To Coarse Sand When Sampled
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 1 of 2

TEST BORING RECORD

BORING NO. B-295
 DATE DRILLED 2-24-76
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

561.6

| DEPTH FT. | DESCRIPTION | CORE SIZE MIN. | % & TIME | 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=50/4" | |
| 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 | Coring Terminated At 59.6 ft. No Drilling Water Loss Boring Caved To 21.6 ft After 24 Hours | | | 541.6 | | 78* |
| | | | | | | |
| | | | | | | |
| | | | | | | |

BORING AND SAMPLING MEETS ASTM D-1886
 CORE DRILLING MEETS ASTM D-2113
 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 Left In Hole From About 58.7 to 59.6 ft - 100% Rec.
 And 95% RQD From 54.6 to 58.7 ft.

Page 2 of 2

TEST BORING RECORD

BORING NO. B-295
 DATE DRILLED 2-24-76
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 589.5 ELEV. | REMARKS | R.Q.D. | |
|--------------|---|--|----------------|---------------------------------|--------|--|
| 0 | Firm Red Brown And Red Tan Micaceous Clayey Very Silty Fine To Coarse Sand With Quartz Fragments | | | N=15 | | |
| | | | 584.5 | N=23 | | |
| | | | | 579.5 | N=17 | |
| | | | | | N=15 | |
| 14.0 | | Loose Gray Tan Micaceous Very Silty Fine To Coarse Sand | | 574.5 | N=7 | |
| | | | | 569.5 | N=9 | |
| | | | | 564.5 | N=10 | |
| 28.0 | Firm To Dense Gray Tan Micaceous Silty Fine To Coarse Sand | | | 559.5 | N=16 | |
| | | | | 554.5 | N=23 | |
| 40.0 | | | 549.5 | Weathered Quartz Seam At 40.0ft | | |

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

UNDISTURBED SAMPLE WATER 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 2020

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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.) | 56 |
| | | 98 | | ◀ Slight | 25 |
| 60.6 | Hard To Very Hard Medium Light Gray Felsic Gneiss | 100 | 529.5 | Fresh (60.6 to 69.8 ft.) | |
| | | | 524.5 | | 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-1886
CORE DRILLING MEETS ASTM D-3113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER 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 = MOD. DIP 30°-60°

S = STEEP DIP 60°-90°

Page 2 of 2

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 % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-------------------------------|-------|---------|-------------|
| 0 | Firm Red Brown Micaceous Clayey Very Silty Fine To Coarse Sand | | | | |
| 4.0 | Firm To Loose Tan Orange To Tan Pink Micaceous Very Silty Fine To Coarse Sand | | 584.8 | N=26 | |
| | | | 579.8 | N=13 | |
| | | | 574.8 | N=11 | |
| | | | 569.8 | N=7 | |
| | | | 564.8 | N=7 | |
| 0 | Stiff Olive Brown Micaceous Fine Sandy Silt | | 559.8 | N=8 | |
| | | | 554.8 | N=9 | |
| 35.0 | Stiff Tan Micaceous Fine To Medium Sandy Silt | | 549.8 | N=13 | |
| 37.0 | Firm Brown Gray To Tan Gray Micaceous Very Silty Fine To Coarse Sand | | | N=14 | |
| | | | | N=15 | |

BORING AND SAMPLING MEETS ASTM D-1988

CORE DRILLING MEETS ASTM D-2113

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

UNDISTURBED SAMPLE WATER 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-297

DATE DRILLED 2-26-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|-----------|--|-------------------------|-------|----------------------------------|--------|
| 40.0 | Firm Brown Gray To Tan Gray Micaceous Very Silty Fine To Coarse Sand | | 549.8 | N=17 | |
| | | | 544.8 | N=17 Quartz Seam At 45 ft. | |
| | | | 539.8 | N=18 | |
| 52.5 | Very Dense Gray Tan Micaceous Very Silty Fine To Coarse Sand | | 534.8 | N=68 | |
| | | | 529.8 | N=20 | |
| 58.0 | Very Stiff To Hard Tan Micaceous Fine Sandy Silt | | 524.8 | N=74 Hard Layer 64.0 to 66.0 ft. | |
| | | | 519.8 | N=18 | |
| | | | 514.8 | N=65 | |
| 72.0 | Very Dense Olive Tan Micaceous Very Silty Fine To Coarse Sand | | 509.8 | N=50/5" | |
| | | | | | |
| 79.0 | Partially Weathered Rock That * | | | | |
| 80.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1586 *Becomes Olive Tan Micaceous Very Silty
 CORE DRILLING MEETS ASTM D-2113 Fine To Coarse Sand When Sampled Page 2 of 3
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT. TEST BORING RECORD
 BORING NO. B-297
 DATE DRILLED 2-26-76
 JOB NO. CH 2920
 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°
 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" | |
| 90.0 | Hard To Very Hard Medium Dark Gray Mafic Gneiss | 100 | | 499.8 | N=50/1" No Recovery 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.) | |
| | | 100 | | | Quartz Seam At 92.9 ft. | 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-1886
 CORE DRILLING MEETS ASTM D-8113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

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TEST BORING RECORD

BORING NO. B-297
 DATE DRILLED 2-26-76
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|---------------------------------|--------|
| 0 | | | 676.3 | | |
| | 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-1886
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. 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°

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Page 1 of 1

TEST BORING RECORD

BORING NO. B-343

DATE DRILLED 7-13-76

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.
 Appendix 2BB, Rev. 2

674.1

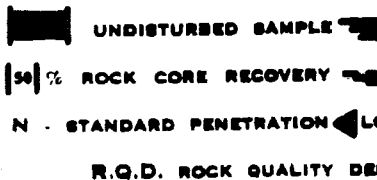
| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|-------|---------------------------------|-------------|
| 0 | Wash Drilled To 16.9 ft. | | 669.1 | | |
| | | | 664.1 | | |
| | | | 659.1 | | |
| 16.9 | Boring Terminated At 16.9 ft. Caved And Dry At 14.3 ft After 24 Hours | | 654.1 | Carbide Bit Refusal At 16.9 ft. | |

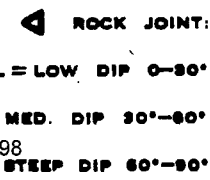
BORING AND SAMPLING MEETS ASTM D-1586
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.

Page 1 of 1

TEST BORING RECORD

BORING NO. B-344
 DATE DRILLED 7-13-76
 JOB NO. CH 2920


 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°

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|-------|---------|-------------|
| 0 | Very Stiff Red Brown Micaceous Fine To Medium Sandy Clayey Silt | | 589.6 | N=18 | |
| 4.0 | | | 584.6 | N=17 | |
| | Stiff To Very Stiff Tan Pink Gray Micaceous Fine And Fine To Coarse Sandy Silt | | 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 | |
| | | | | 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.

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-505

DATE DRILLED 6-29-77

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.
Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | R.Q.D. |
|--------------|---|-------------------------------|-------|-----------------------------------|--------|
| 40.0 | Stiff To Very Stiff Tan Pink Gray Micaceous Fine And Fine To Coarse Sandy Silt | | 544.6 | N=17 | |
| | | | 539.6 | N=25 | |
| 50.5 | Partially Weathered Rock That Becomes Tan Gray Micaceous Silty Fine To Medium Sand When Sampled | | 534.6 | N=50/3" | |
| 53.2 | Boring Terminated At 53.2 ft. Groundwater At 27.7 ft At Time Of Boring | | | N=50/3" Auger Refusal At 53.2 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.

Page 2 of 2

TEST BORING RECORD

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°

BORING NO. B-505
 DATE DRILLED 6-29-77
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.
 Appendix 2BB, Rev. 2

| DEPTH FT. | DESCRIPTION | CORE SIZE | % & TIME MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|---|-----------|---------------|-------|---------|----------|
| 0 | Firm Brown Micaceous Fine To Coarse Sandy Silt | | | 590.7 | 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 | |
| 25.0 | Partially Weathered Rock That Becomes Brown Gray Micaceous Silty Fine To Medium Sand When Sampled | | | 565.7 | N=50/3" | |
| | | | | 560.7 | N=50/5" | |
| 35.3 | Boring Terminated At 35.3 ft. No Groundwater Encountered | | | 555.7 | N=50/3" | |

BORING AND SAMPLING MEETS ASTM D-1886
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

Page 1 of 1

TEST BORING RECORD

UNDISTURBED SAMPLE WATER 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 NO. B-506
 DATE DRILLED 6-30-77
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. | |
|-----------|--|-------------------------------|-------|----------------------------------|-------------|--|
| 0 | Stiff Tan Brown Gray Micaceous Fine To Medium Sandy Silt | | 592.4 | | | |
| | | | 587.4 | | | |
| | | | | | N=14 | |
| | | | | | N=13 | |
| | | | | 582.4 | | |
| | Very Stiff To Hard Gray Micaceous Fine To Medium Sandy Silt | | | N=12 | | |
| | | | | | N=15 | |
| | | | | 577.4 | | |
| 19.0 | Very Stiff To Hard Gray Micaceous Fine To Medium Sandy Silt | | | N=24 | | |
| | | | | 572.4 | | |
| | Dense Tan Brown Micaceous Silty Fine To Coarse Sand | | | N=42 | | |
| | | | | 567.4 | | |
| 29.0 | Dense Tan Brown Micaceous Silty Fine To Coarse Sand | | | N=44 | | |
| | | | | 562.4 | | |
| 34.0 | Partially Weathered Rock That Becomes Tan Brown Micaceous Silty Fine To Coarse Sand When Sampled | | | N=50/5" | | |
| | | | | 557.4 | | |
| 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.

Page 1 of 1

TEST BORING RECORD

UNDISTURBED SAMPLE WATER 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 NO. B-507
 DATE DRILLED 6-30-77
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.
 Appendix 2BB, Rev. 2

590.6

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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 | |
| | | | | N=19 | |
| | | | 570.6 | N=19 | |
| | | | | N=20 | |
| | | | 565.6 | N=20 | |
| | | | | N=50/4" | |
| 30.0 | Partially Weathered Rock That Becomes Gray Tan Micaceous Silty Fine To Medium Sand When Sampled | | 560.6 | N=50/4" | |
| 34.0 | Partially Weathered Rock That * | | | N=50/1" | |
| 35.1 | Boring Terminated At 35.1 ft. No Groundwater Encountered | | 555.6 | N=50/1" | |

BORING AND SAMPLING MEETS ASTM D-1586 *Becomes Light Gray Brown Micaceous Silty Fine To Coarse Sand
 CORE DRILLING MEETS ASTM D-2113 With Rock Fragments When
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER Sampled
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

BORING NO. B-508
 DATE DRILLED 7-11-77
 JOB NO. CH 2920

UNDISTURBED SAMPLE WATER TABLE, 24 HR. ◀ ROCK JOINT:
 % ROCK CORE RECOVERY WATER TABLE, 1 HR. L = LOW DIP 0°-30°
 N = STANDARD PENETRATION M = MED. DIP 30°-60°
 R.Q.D. ROCK QUALITY DESIGNATION S = STEEP DIP 60°-90°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE NO. | TIME MIN. | ELEV. | REMARKS | R Q D. |
|--------------|--|-------------|--------------|-------|-----------------------------------|--------------|
| 0 | Stiff To Very Stiff Olive Brown Micaceous Silt | | | 590.3 | | |
| | | | | 585.3 | N=10 | |
| | | | | | N=11 | |
| | | | | 580.3 | N=13 | |
| | | | | | N=10 | |
| | | | | 575.3 | N=18 | |
| 20.0 | Partially Weathered Rock That Becomes Olive Micaceous Fine Sandy Silt With Rock Fragments When Sampled | | | 570.3 | N=50/4" | |
| 25.6 | Boring Terminated At 25.6 ft. | | | 565.3 | 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.
 ROCK CORE 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°
 H = STEEP DIP 60-90°

TEST BORING RECORD

BORING NO. B-526
 DATE DRILLED 7-12-77
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 590.9 ELEV. | REMARKS | % R.Q.D. |
|--------------|---|-------------------------------|----------------|-----------------------------------|-------------|
| 0 | Stiff Yellow Tan Micaceous Fine Slightly Sandy Silt | | 585.9 | N=11 | |
| 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 | | 575.9 | N=50/5" | |
| 15.0 | Very Dense Tan Gray Micaceous Silty Fine To Coarse Sand | | | 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.

Page 1 of 1

TEST BORING RECORD

UNDISTURBED SAMPLE WATER 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°
H = HIGH DIP 60°-90°

BORING NO. B-527
DATE DRILLED 7-12-77
JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--|-------------------------------|-------|---------|-------------|
| 0 | Very Stiff Olive Micaceous Fine Sandy Silt | | 590.5 | | |
| | | | 585.5 | N=20 | |
| | | | 580.5 | N=23 | |
| | | | 575.5 | N=19 | |
| 21.0 | Partially Weathered Rock That Becomes Tan Brown Micaceous Fine To Medium Sandy Silt When Sampled | | 570.5 | N=50/6" | |
| 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.

TEST BORING RECORD

BORING NO. B-528
 DATE DRILLED 7-13-77
 JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 % ROCK CORE RECOVERY WATER TABLE, 1 HR.
 N - STANDARD PENETRATION LOSS OF DRILLING WATER

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

R.Q.D. ROCK QUALITY DESIGNATION

589.5

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|--|-------------------------|-------|---------------------------|----------|
| 0 | Firm Tan Yellow Gray Micaceous Very Silty Fine To Medium Sand | | 584.5 | N=11 | |
| | | | | N=11 | |
| 10.0 | Dense Tan Micaceous Silty Fine To Medium Sand | | 579.5 | N=50 | |
| 15.0 | Partially Weathered Rock That Becomes Gray Tan Micaceous Very Silty Fine To Medium Sand When * | | 574.5 | N=50/5" | |
| 18.0 | Boring Terminated At 18.0 ft. Groundwater At 16.0 ft At Time Of Boring | | 569.5 | Auger Refusal At 18.0 ft. | |

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.

% 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°

DEEP 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 % & TIME SIZE 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-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

BORING NO. B-530
 DATE DRILLED 7-13-77
 JOB NO. CH 2920

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°

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE 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.

|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-558

DATE DRILLED 11-10-77

JOB NO. CH 2920

LAW ENGINEERING TESTING CO.

| FT. | DESCRIPTION | SIZE MIN. | ELKY. | REMARKS | R Q D |
|-------|---|-----------|-------|---|-------|
| 0 | Fill Concrete | | 542 | | |
| 5 | | | 537 | | |
| 6.9' | Moderately Hard, Light Gray Felsic Gneiss | NX 85 | | 6.9' to 11.5' moderately severe moderate weathering | 6.0 |
| 10 | | | 532 | 9.2', open joint, steep dip, quartz-mica coated, Mn-stained | |
| 11.9' | Hard to Very Hard, Light Gray Felsic Gneiss | NX 92 | | 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 |
| 15 | | | 527 | 11.5' to 38.0', slight to very slight weathering | 18 |
| 20 | | | 522 | 20.1' } quartz veins with open 21.0' } vugs | |
| 25 | | NX 100 | | 18.4' to 38.0' open joints, steep dip, wide spacing, quart-chlorite coated | 81 |
| 30 | | | 517 | | 28 |
| 35 | | NX 100 | | | 98 |
| 38.0' | Coring Terminated at 38.0' | | 507 | | 38 |

BORING AND SAMPLING MEETS ARTM D-1886
CORE DRILLING MEETS ARTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE WATER TABLE, 24 HR.
 ROCK CORE RECOVERY WATER TABLE, 1 HR.
N - STANDARD PENETRATION LOSS OF DRILLING WATER



◀ 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-682
DATE DRILLED 4/4/79
JOB NO. Cherokee


R.Q.D. ROCK QUALITY DESIGNATION

| DEPTH FT. | DESCRIPTION | SIZE MIN. | ELKV. | REMARKS | R Q D |
|--------------|---|--------------|-------|---|-------|
| 0 | Fill Concrete | | 542 | | |
| 5 | | | 537 | | |
| 8.3' | Moderately Hard, Light Gray Felsic Gneiss | NX 91 | 532 | 8.3' to 17.3', moderately weathered 8.3' to 22.0', joints, medium to steep dip, closely spaced, some open, quartz-chlorite coated. | 41 |
| 15 | | NX 96 | 527 | 17.3' to 33.7', very slight weathering to unweathered | 61 |
| 17.3' | 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. | 76 |
| 20 | | NX 97 | 517 | | |
| 25 | | | 512 | | |
| 30 | | NX 100 | 512 | 33.7' to 35.7', unweathered. 34.8', calcite vein, steep dip | 100 |
| 33.7' | Hard to Very Hard, Dark Gray Mafic Gneiss | | 507 | | |
| 35 | Coring Terminated at 35.7' | | | | |
| 40 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1886
CORE DRILLING MEETS ASTM D-2112
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

 UNDISTURBED SAMPLE  WATER TABLE, 24 HR.

 ROCK CORE RECOVERY  WATER TABLE, 1 HR.

N - STANDARD PENETRATION  LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

502

Page 1 of 1

TEST BORING RECORD

BORING NO. B-683

DATE DRILLED 3-30-79

JOB NO. Cherokee

◀ ROCK JOINT:



L = LOW DIP 0°-30°



M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

| FT. | DESCRIPTION | SIZE | MIN. | ELEV. | REMARKS | R.Q.D. |
|-------|---|------|------|-------|---|--------|
| 0 | Fill Concrete | | | 542 | | |
| 5 | | | | 537 | | |
| 8.0' | Moderately Hard, Light Gray Felsic Gneiss | | | | 8.0' to 11.0', moderate weathering | 8. |
| 10 | | NX | | | 8.0' to 11.0', joints, medium dip, close spacing, open | 22 |
| 11.0' | Hard to Very Hard, Light Gray Felsic Gneiss | | | 532 | 11.0' to 37.8', very slight weathering to unweathered | 11 |
| 15 | | NX | | | 11.0' to 30.3', joints, medium to steep dips, moderately close to close spacing, most closed, quartz-mica-chlorite coated. | 89 |
| | | | | 527 | | |
| 20 | | | | | 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 |
| | | NX | | | | 82 |
| | | | | 522 | | |
| 25 | | | | | 24.3' } 1/4" to 1/2" thick quartz 25.6' } veins | |
| | | | | 517 | | 28 |
| 30 | Very Hard, Dark Gray Mafic Gneiss | | | | 30.0', quartz pod | |
| | | NX | | | 30.3' to 37.8', joints, medium to steep dips, closed, generally coated by calcite but some quartz is present | 100 |
| | | | | 512 | | |
| 35 | | | | | | |
| | | | | 507 | | |
| 40 | Coring Terminated at 37.8' | | | | | 37 |

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

 UNDISTURBED SAMPLE  WATER TABLE, 24 HR.

 ROCK CORE RECOVERY  WATER TABLE, 1 HR.

N - STANDARD PENETRATION  LOSS OF DRILLING WATER

R.Q.D. ROCK QUALITY DESIGNATION

502

Page 1 of 1

TEST BORING RECORD

BORING NO. B-684

DATE DRILLED 3-29-79

JOB NO. Cherokee

◀ ROCK JOINT:

L = LOW DIP 0°-30°

M = MED. DIP 30°-60°

S = STEEP DIP 60°-90°

B. 684

| FT. | DESCRIPTION | SIZE MIN. | ELEV. | REMARKS | R Q D |
|-----|---|-----------|-------|--|-------|
| 70 | | | 522.8 | | |
| | Carbide Refusal at 73.9' | | | | |
| 75 | Moderately Hard, Dark Gray Mafic Gneiss | NX 22 | 517.8 | 73.9' to 81.3', moderately severe weathering | 73 |
| | | | | | 0 |
| 80 | 81.3' | | 512.8 | 81.3' to 92.0', slight weathering | 80 |
| | Moderately Hard to Hard, Light Gray Felsic Gneiss | NX 49 | 507.8 | 82.7', open joint, steep dip, quartz-chlorite coated | 24 |
| 85 | | | | | |
| 90 | 92.0' | NX 24 | 502.8 | | 89 |
| | | | | | 0 |
| 95 | Hard to Very Hard, Light Gray Felsic Gneiss | NX 99 | 497.8 | 92.0' to 99.3', unweathered | 88 |
| | | | | 97.0', open joint, steep dip, quartz-chlorite coated | |
| 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-1886
 CORE DRILLING MEETS ASTM D-2112
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.

TEST BORING RECORD

BORING NO. B-685
 DATE DRILLED 4-10-79
 JOB NO. Cherokee






 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°

| FT. | DESCRIPTION | SIZE MIN. | ELKV. | REMARKS | R.Q.D. |
|-----|---|-----------|-------|---|--------|
| 40 | | | 553.4 | | |
| 45 | Carbide Refusal at 45.1' | | | | |
| | Hard to Very Hard, Light Gray Felsic Gneiss | NX 80 | 548.4 | 45.1' to 49.0', moderate to very slight weathering | 45 |
| | | | | 45.4', joint, steep dip, Mn-coated | 41 |
| 50 | | NX 74 | | 48.8', quartz vein with Mn-staining, medium dip | 49 |
| | | | 543.4 | | 34 |
| | | | | 49.0' to 68.8', unweathered, joints, medium to steep dips, moderately close, healed by quartz-mica-chlorite, possible calcite | 52 |
| 55 | | NX 89 | 538.4 | | 65 |
| 60 | | | | 54.1' } joints, steep dips, open, 54.2' } coated by quartz-mica 61.4' } 62.4' } 64.1' } | 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.






TEST BORING RECORD

 UNDISTURBED SAMPLE  WATER TABLE, 24 HR.  ROCK JOINT:
 [30] % 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°

BORING NO. B-686
 DATE DRILLED 4-6-79
 JOB NO. Cherokee

| FT. | DESCRIPTION | SIZE MIN. | ELEV. | REMARKS | R Q D |
|-------|---|-----------|-------|--|-------|
| 20 | | | 556.8 | | |
| 23.1' | Carbide Refusal at 23.1' | | | | 23 |
| 25 | Moderately Hard, Light Gray Felsic Gneiss | NX 90 | 551.8 | 23.1' to 26.1', moderate to slight weathering | 42 |
| 26.1' | | | | 26.1' to 49.4', slight weathering to unweathered | |
| 30 | | NX 43 | 546.8 | 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. | 26 |
| 35 | | | 541.8 | | |
| 37.5' | Hard, Dark Gray Mafic Gneiss | | | | 37 |
| 40 | 38.5' | NX 87 | 536.8 | | 56 |
| 42 | Hard to Very Hard, Light Gray Felsic Gneiss | | | | 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 | | |

BORING AND SAMPLING MEETS ASTM D-1888
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS 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-687

DATE DRILLED 4-9-79

JOB NO. Cherokee






| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | 589.6 ELEV. | REMARKS | % R.Q.D. |
|--------------|-------------------------------|-------------------------------|----------------|---------|-------------|
| 0 | Wash Drilled Without Sampling | | 584.6 | | |
| | | | 579.6 | | |
| | | | 574.6 | | |
| | | | 569.6 | | |
| | | | 564.6 | | |
| | | | 559.6 | | |
| | | | 554.6 | | |
| 40.0 | | | | 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.
 [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 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 % & TIME SIZE MIN. 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-1886
 CORE DRILLING MEETS ASTM D-2113
 PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1-4 IN. I.D. SAMPLER 1 FT.
 UNDISTURBED SAMPLE  WATER 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. BW-44
 DATE DRILLED 10-26-77
 JOB NO. CH 2920
 LAW ENGINEERING TESTING CO.

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT Overlook

SOIL TEST BORING FIELD REPORT

JOB NO. 7.81-B STARTING TIME _____
 JOB NAME Cherokee GROUND SURFACE ELEV. 582.58
 DATE 10-26-77 WEATHER Clear Warm HRS. DRILLING _____ HRS. MOVING _____
 INSPECTOR Ellenbusch BORING NO. BW-44

| SAMPLING | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS |
|----------|--------|--------|-------|----|--|
| 1ST 6" | 2ND 6" | 3RD 6" | | | |
| | | | 80 | | Drilled in soil 0.0'-90.0' ↓ TERMINATED SET PVC TO BOTTOM OF HOLE |
| | | | 85 | | |
| | | | 90 | | |
| | | | 95 | | |
| | | | 100 | | |
| | | | 105 | | |
| | | | 110 | | |
| | | | 115 | | |
| | | | 120 | | |
| | | | 125 | | |

+ 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 <u>90.0'</u> | METHOD OF ADVANCING BORING | DEPTH |
| BORING REFUSAL _____ | POWER AUGER | TO |
| WATER TOB DEPTH _____ | HAND CHOP: W/MUD: W/WATER | TO |
| WATER 24 HR: DEPTH _____ | ROTARY DRILL: W/MUD: W/WATER | <u>00' TO 90.0'</u> |
| WATER LOSSES <u>None</u> | DIAMOND CORE | - TO - |
| CASING SIZE <u>4.125"</u> LENGTH <u>60.0'</u> | | |

APPROVED BY _____ DATE _____
 QUALITY ASSURANCE

| DEPTH FT. | DESCRIPTION | CORE % & TIME SIZE MIN. | ELEV. | REMARKS | % R.Q.D. |
|--------------|--------------------------------------|-------------------------------|-------|--|-------------|
| 0 | Partially Weathered Rock | | 579.0 | | |
| | | | 574.0 | | |
| | | | 569.0 | | |
| 14.4 | Hard to Very Hard Gray Felsic Gneiss | NX 77 | 564.0 | Carbide Bit Refusal at 14.4 Ft. | 38 |
| | | NX 57 | 559.0 | 14.4 to 79.4 Ft. Moderate Weathering to Fresh Soft Zone at 18.5 Ft. Closely Jointed (15.7 to 27.0 Ft.) | 28 |
| | | NX 100 | 554.0 | | 64 |
| | | | 549.0 | ▲ | |
| 31.1 | Very Hard Dark Gray Mafic Gneiss | NX 96 | 544.0 | ▲ | 83 |
| | | | 539.0 | | |
| 40.0 | | | | | |

BORING AND SAMPLING MEETS ASTM D-1886
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS 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°-80°

S = STEEP DIP 80°-90°

Page 1 of 2

TEST BORING RECORD

BORING NO. BW-45

DATE DRILLED 10-24-77

JOB NO. CH2920

LAW ENGINEERING TESTING CO.

| DEPTH FT. | DESCRIPTION | CORE SIZE | TIME MIN. | ELEV. | REMARKS | % R.Q.D. |
|-----------|----------------------------------|-----------|-----------|-------|---------------------------------|----------|
| 40.0 | Very Hard Dark Gray Mafic Gneiss | NX 100 | | 539.0 | | |
| 43.4 | Very Hard Gray Felsic Gneiss | | | 534.0 | | 86 |
| | | | | 529.0 | | |
| | | NX 98 | | 524.0 | | 63 |
| | | | | 519.0 | Mafic Gneiss (60.2 to 60.9 Ft.) | |
| 63.1 | Very Hard Dark Gray Mafic Gneiss | NX 100 | | 514.0 | | 93 |
| | | | | 509.0 | | |
| | | NX 100 | | 504.0 | | 94 |
| 75.3 | Very Hard Gray Felsic Gneiss | NX 100 | | 504.0 | | 97 |
| 79.4 | Coring Terminated at 79.4 Ft.* | | | 499.0 | | |

BORING AND SAMPLING MEETS ASTM D-1886 *Installed Observation Well at 79.4 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.

TEST BORING RECORD

BORING NO. BW-45
 DATE DRILLED 10-14-77
 JOB NO. CH 2920

10-24-77

UNDISTURBED SAMPLE WATER TABLE. 24 HR. ◀ ROCK JOINT:
 30% 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°

LAW ENGINEERING TESTING CO.

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT Cherokee

SOIL TEST BORING FIELD REPORT

JOB NO. X81-B
 JOB NAME Cherokee
 DATE 10-24/77
 WEATHER Cloudy Warm
 INSPECTOR Ellenburg
 STARTING TIME
 GROUND SURFACE ELEV. 579.02
 HRS. DRILLING
 HRS. MOVING
 BORING NO. Bw-45

| SAMPLING | | | SCALE | UD | SOIL CLASSIFICATION AND REMARKS |
|-----------|-----------|--------|-------|----|---|
| 1ST 6" | 2ND 6" | 3RD 6" | | | |
| | | | 0 | | |
| | | | 5 | | |
| | | | 10 | | |
| | | | 14.4' | | CARBIDE REFUSAL |
| 1.3' RUN | 1.0' REC. | 77% | 15.7' | | Grey Moderately/Slight Weath. Moderately Hard Felvic Gneiss |
| 4.6' RUN | 1.3' RPD | | 17.0' | | 14.7' Very Close Joint |
| 2.6' REC. | 38% RPD | | 18.5' | | Grey Moderately/Slight Weath. Moderately Hard Felvic Gneiss (Rest is Closely Jointed) |
| 57% REC. | | | 20.0' | | END RUN |
| 8.7' RUN | 5.6' ROD | | 25.6' | | Grey - 20.3'-23.0' Moderately Weath. Moderately Hard Felvic Gneiss Closely Jointed |
| 8.7' REC. | 64% RPD | | 25.6' | | Grey - 23.0'-25.4' Very Slight Weath. Hard Felvic Gneiss |
| 100% REC. | | | 25.6' | | Grey - 25.4'-27.0' Moderately/Slight Moderately Hard Felvic Gneiss (Closely Jointed) |
| | | | 27.0' | | Grey - 27.0'-29.0' Very Slight Weath. Hard Felvic Gneiss (28.0' Very Close Joint) |
| | | | 29.0' | | END RUN |
| 9.5' RUN | 8.2' RPD | | 30.5' | | Grey 29.0'-31.0' Very Slight/Fresh Weath. Felvic Gneiss |
| 9.5' REC. | 83% RPD | | 30.5' | | 29.2' Very Close Joint |
| 9.6' REC. | | | 30.5' | | 30.8' " " " (Vertical) |
| | | | 31.0' | | Grey/BLACK 31.0'-38.9' Fresh Weath Very Hard Matrix Gneiss |
| | | | 32.9' | | Very Close Joint |
| | | | 38.9' | | END RUN |
| 9.7' RUN | 100% REC. | | 40.6' | | Grey/BLACK 38.9'-43.4' Fresh Weath Very Hard Matrix Gneiss |
| 9.7' REC. | 8.3' RPD | | 40.6' | | 42.8' Very Close Joint |

+ 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' | METHOD OF ADVANCING BORING | DEPTH |
| BORING REFUSAL | 14.4' | POWER AUGER | TO |
| WATER TOB DEPTH | | HAND CHOP: W/MUD: W/WATER | TO |
| WATER 24 HR: DEPTH | | ROTARY DRILL: W/MUD: W/WATER | 00 TO 14.4' |
| WATER LOSSES | None | DIAMOND CORE | 14.4 TO 79.4' |
| CASING SIZE | ALD | | |
| LENGTH | 79.4' | | |

APPROVED BY _____ DATE _____
 QUALITY ASSURANCE

