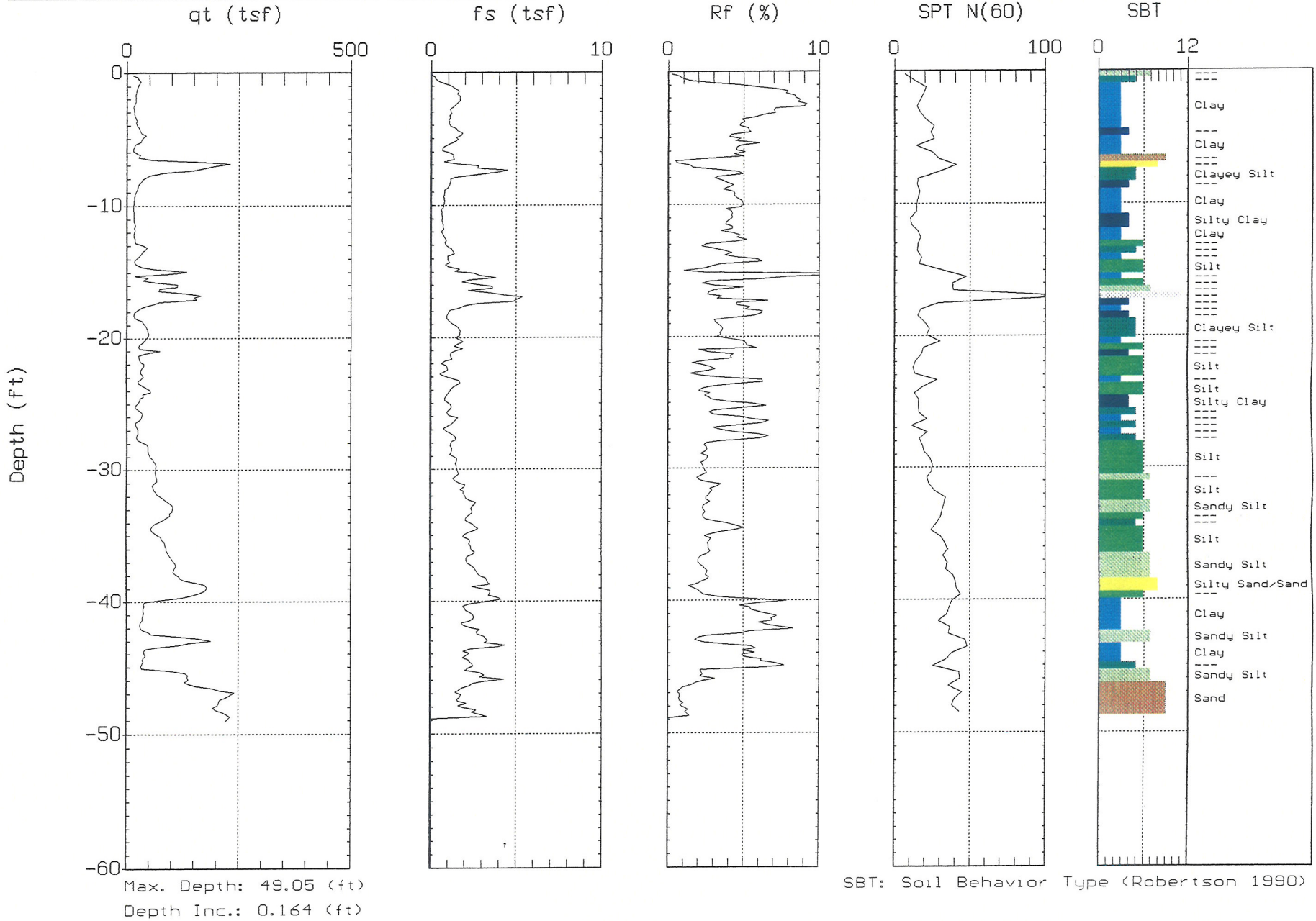




MACTEC

Site: NORTH ANNA COL.
Location: CPT-916

Operator: R. AGUILAR
Date: 09/21/06 08:36



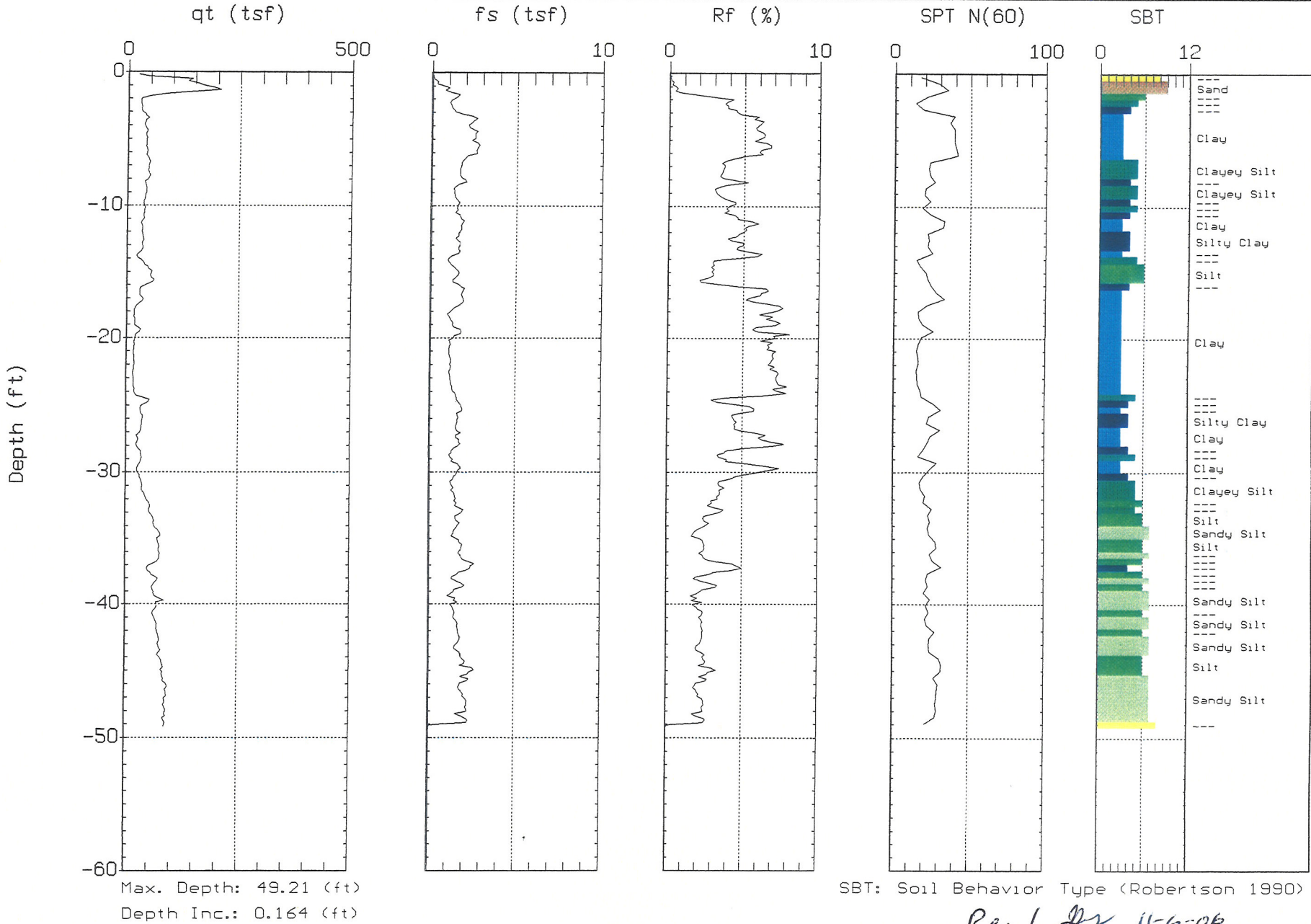


MACTEC

Site: NORTH ANNA COL.
Location: CPT-917

Operator: R. AGUILAR
Date: 09/20/06 10:43

Rev. 1



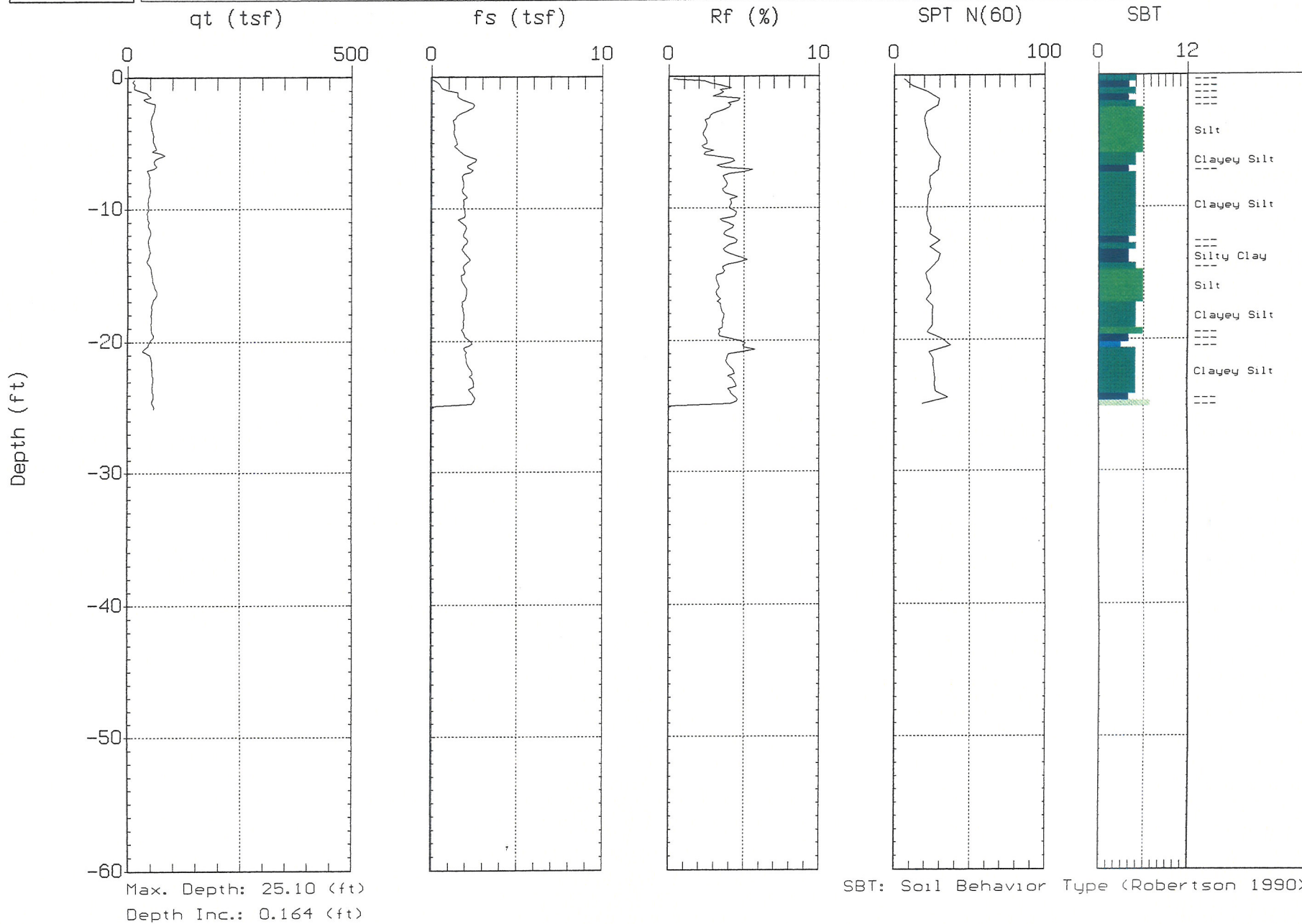
Rev 1 JS 11-6-06
MACTEC



MACTEC

Site: NORTH ANNA COL.
Location: CPT-918

Operator: R. AGUILAR
Date: 09/18/06 13:38

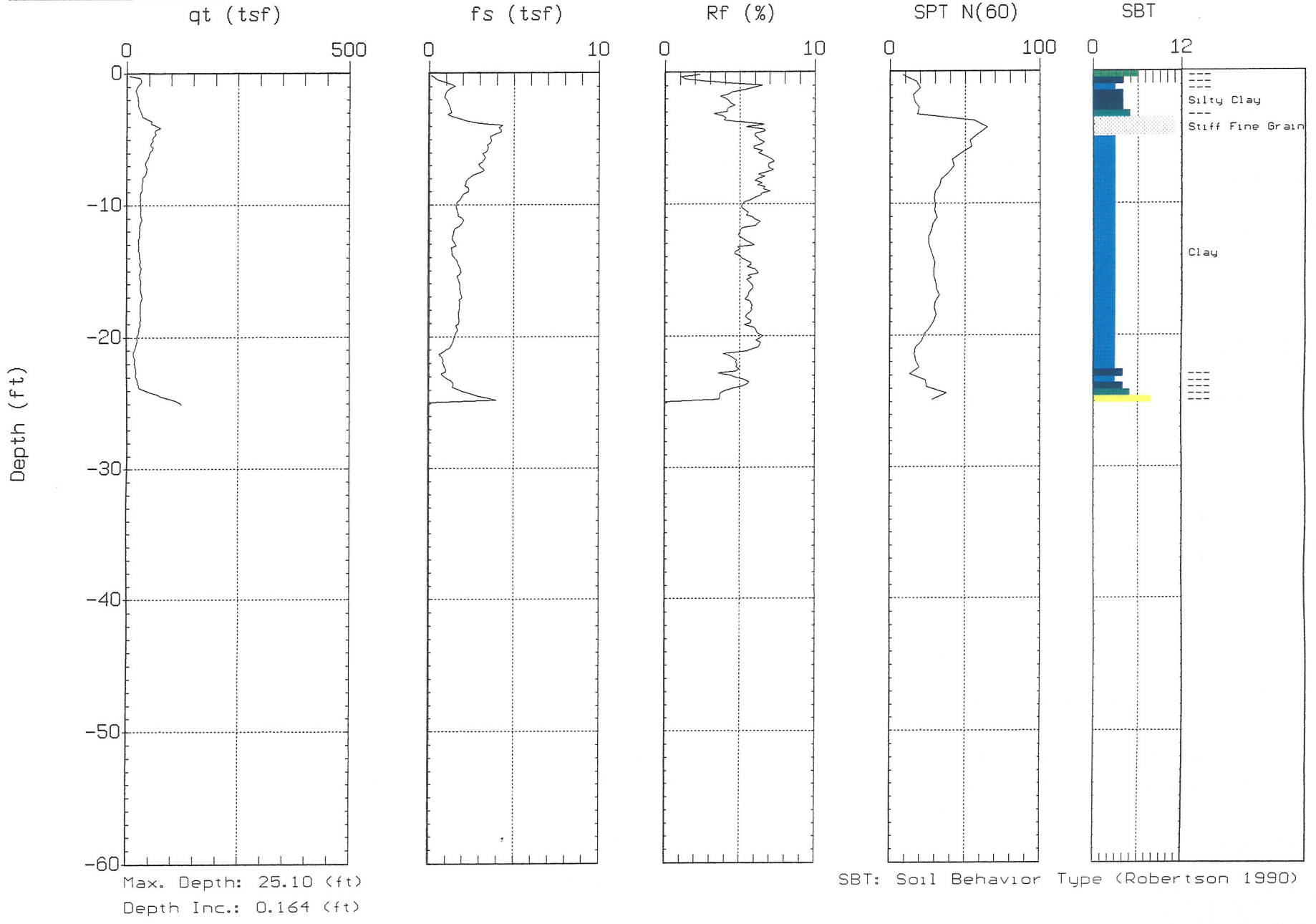




MACTEC

Site: NORTH ANNA COL.
Location: CPT-919

Operator: R.AGUILAR
Date: 09/20/06 07:51

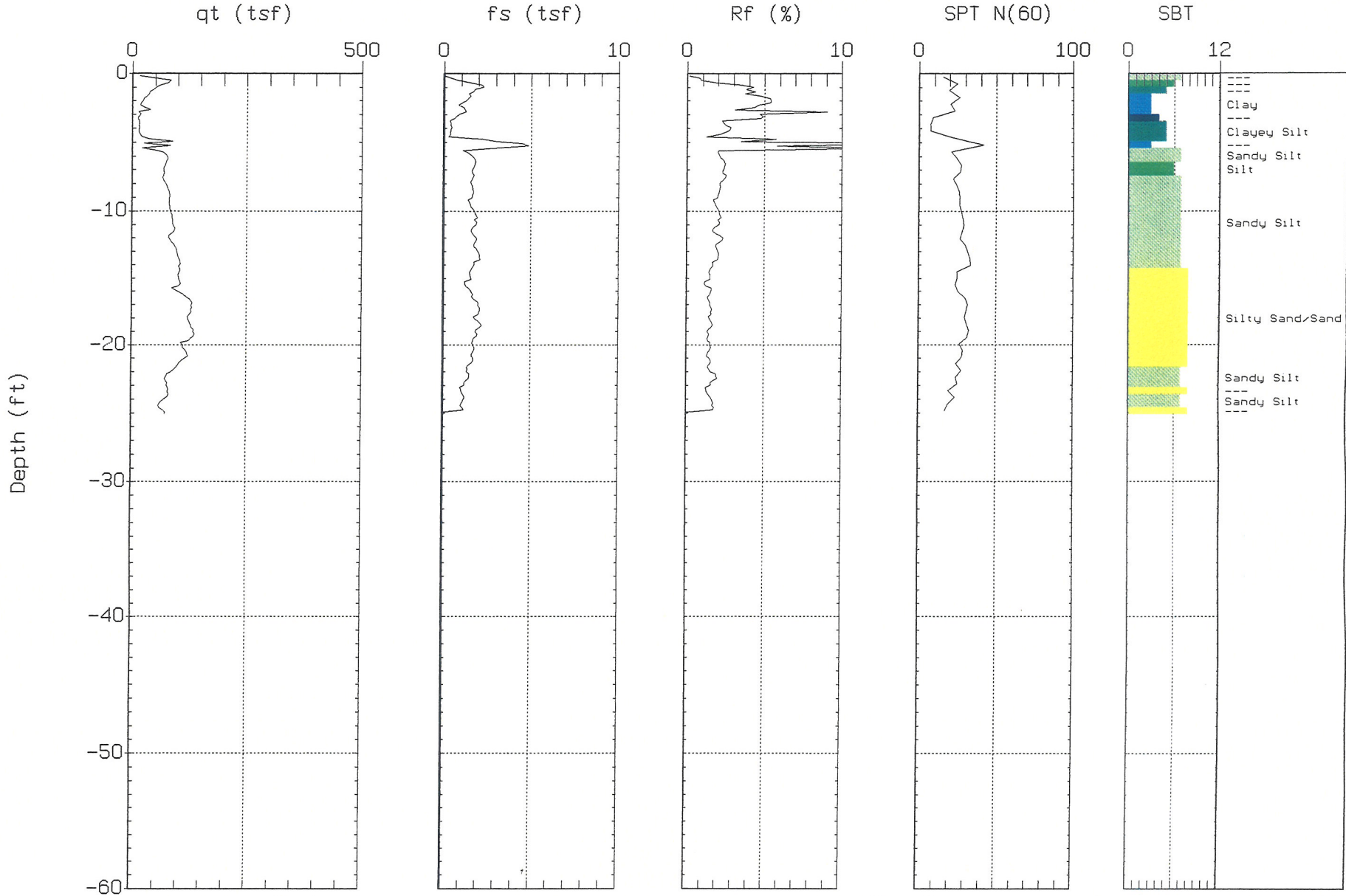




MACTEC

Site: NORTH ANNA COL.
Location: CPT-920

Operator: R. AGUILAR
Date: 09/18/06 13:05



Max. Depth: 25.10 (ft)
Depth Inc.: 0.164 (ft)

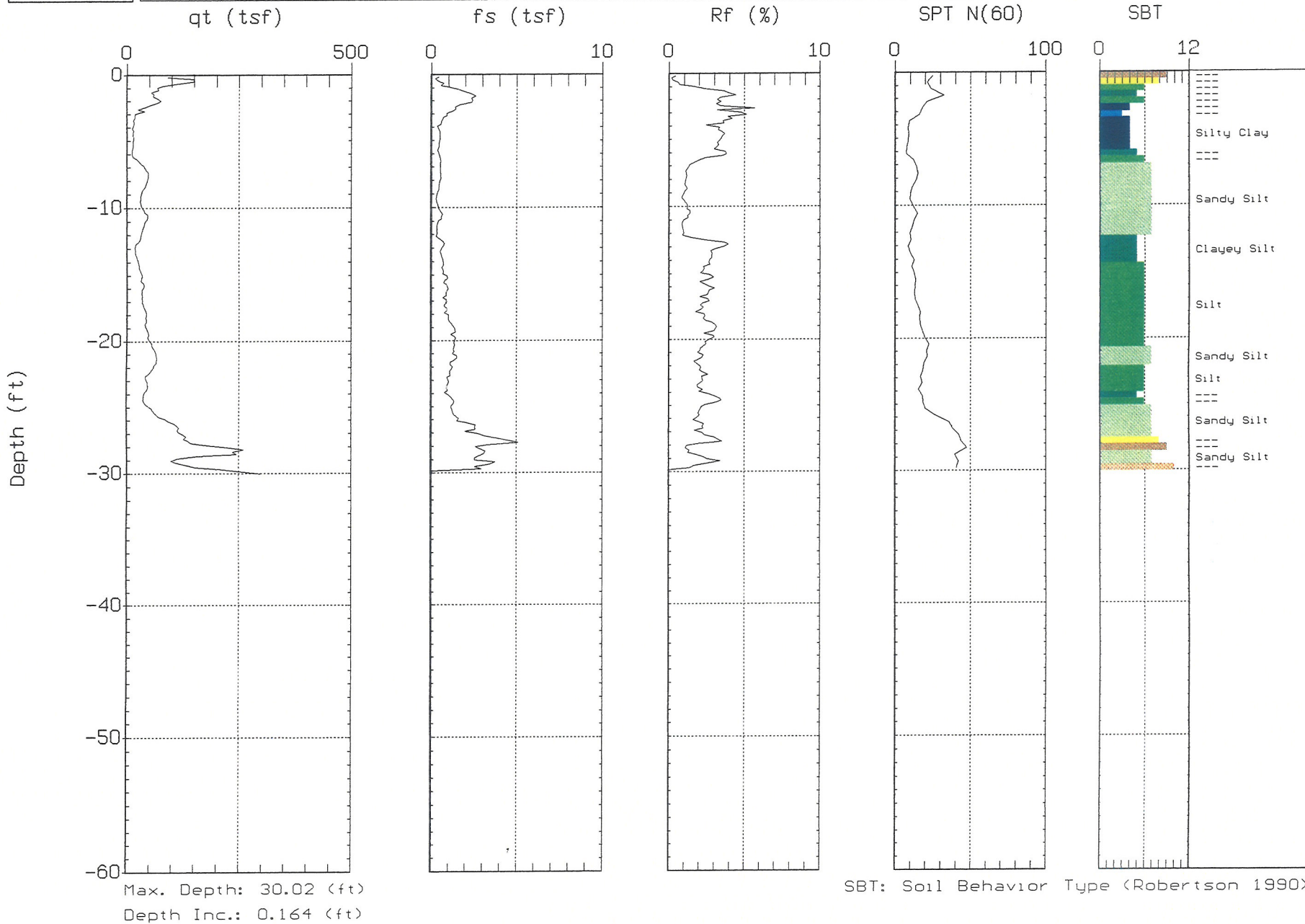
SBT: Soil Behavior Type (Robertson 1990)



MACTEC

Site: NORTH ANNA COL.
Location: CPT-921

Operator: R. AGUILAR
Date: 09/25/06 05:48

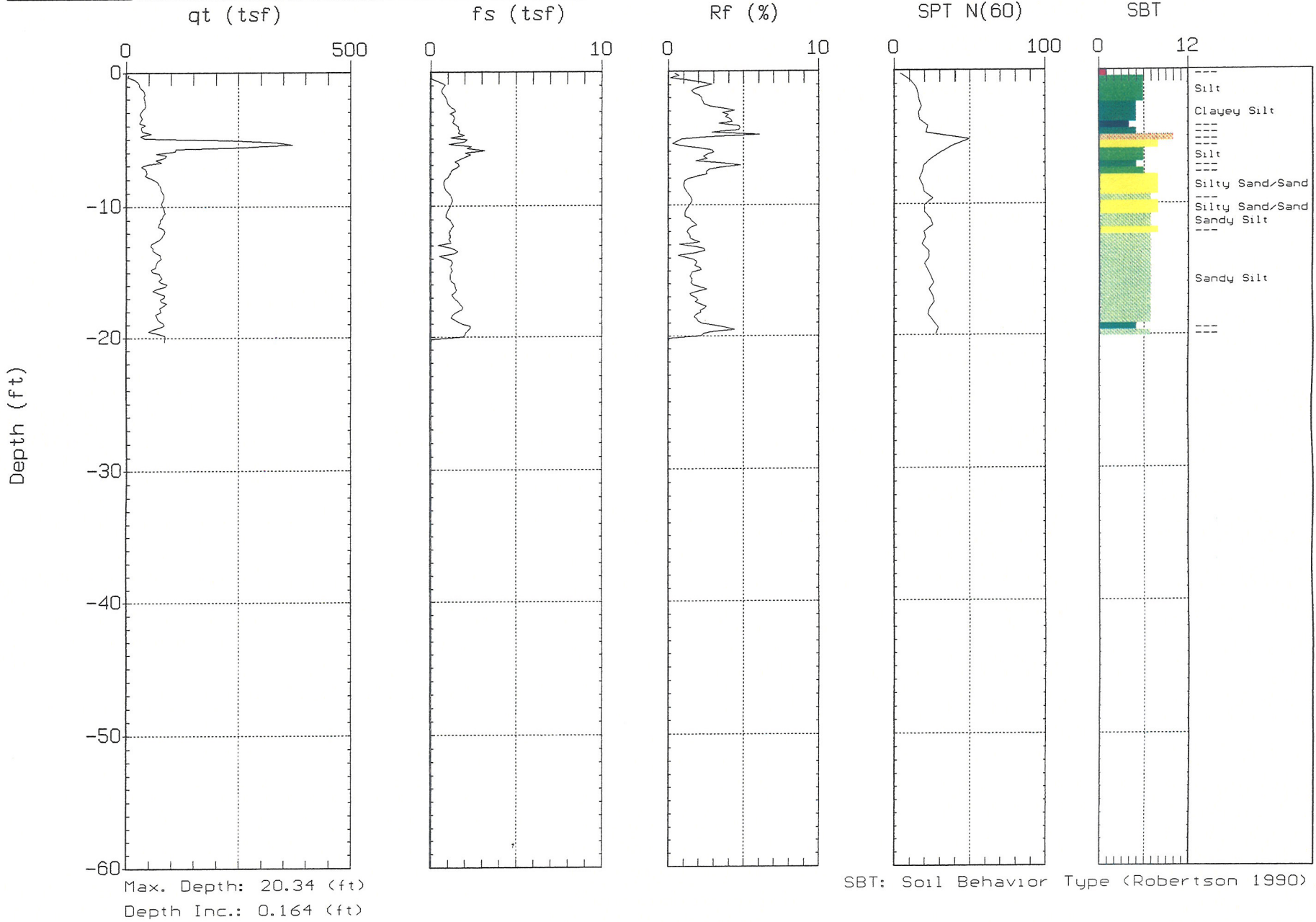




MACTEC

Site: NORTH ANNA COL.
Location: CPT-922

Operator: R.AGUILAR
Date: 09/22/06 10:27

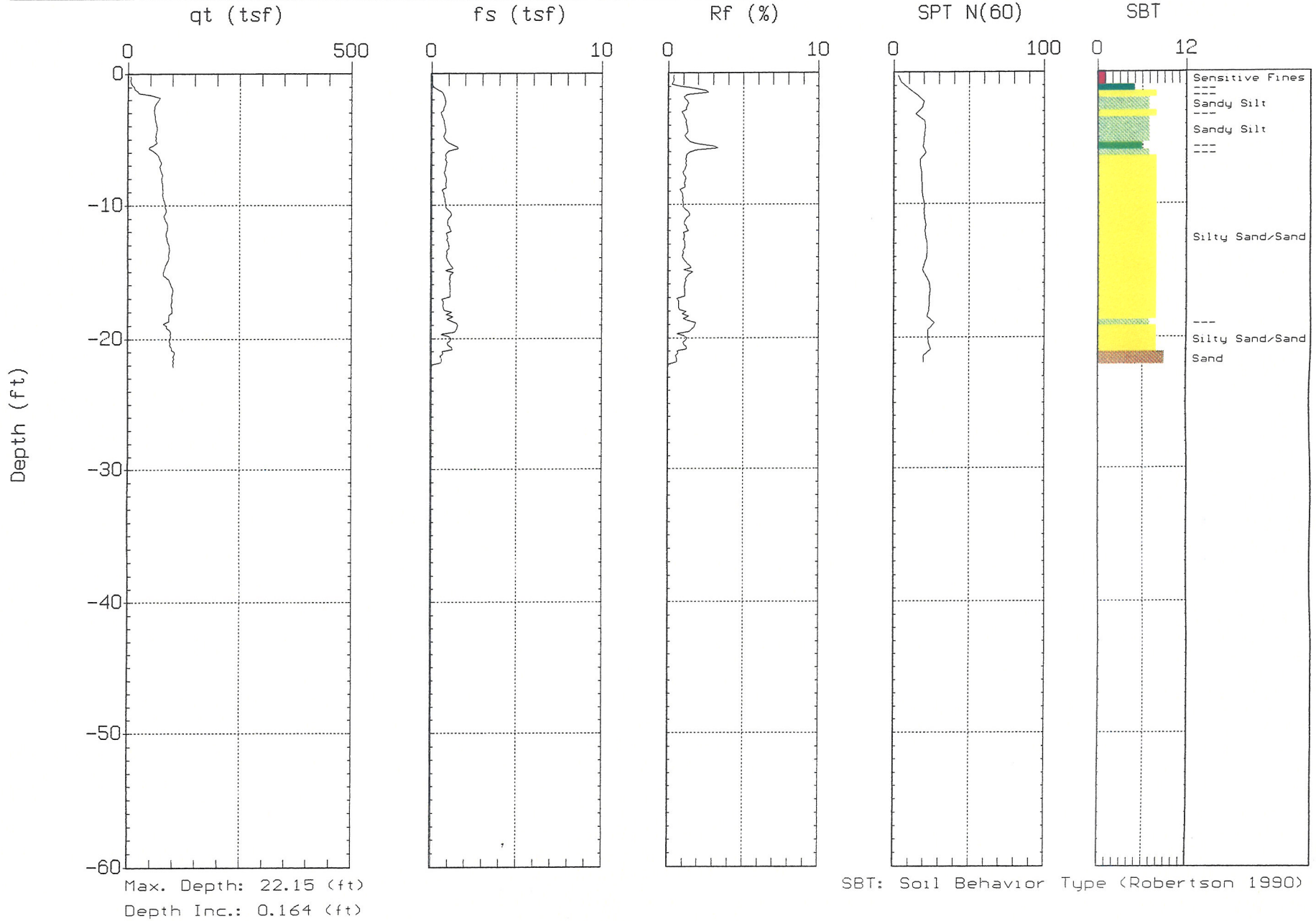




MACTEC

Site: NORTH ANNA COL.
Location: CPT-923

Operator: R. AGUILAR
Date: 09/22/06 11:09

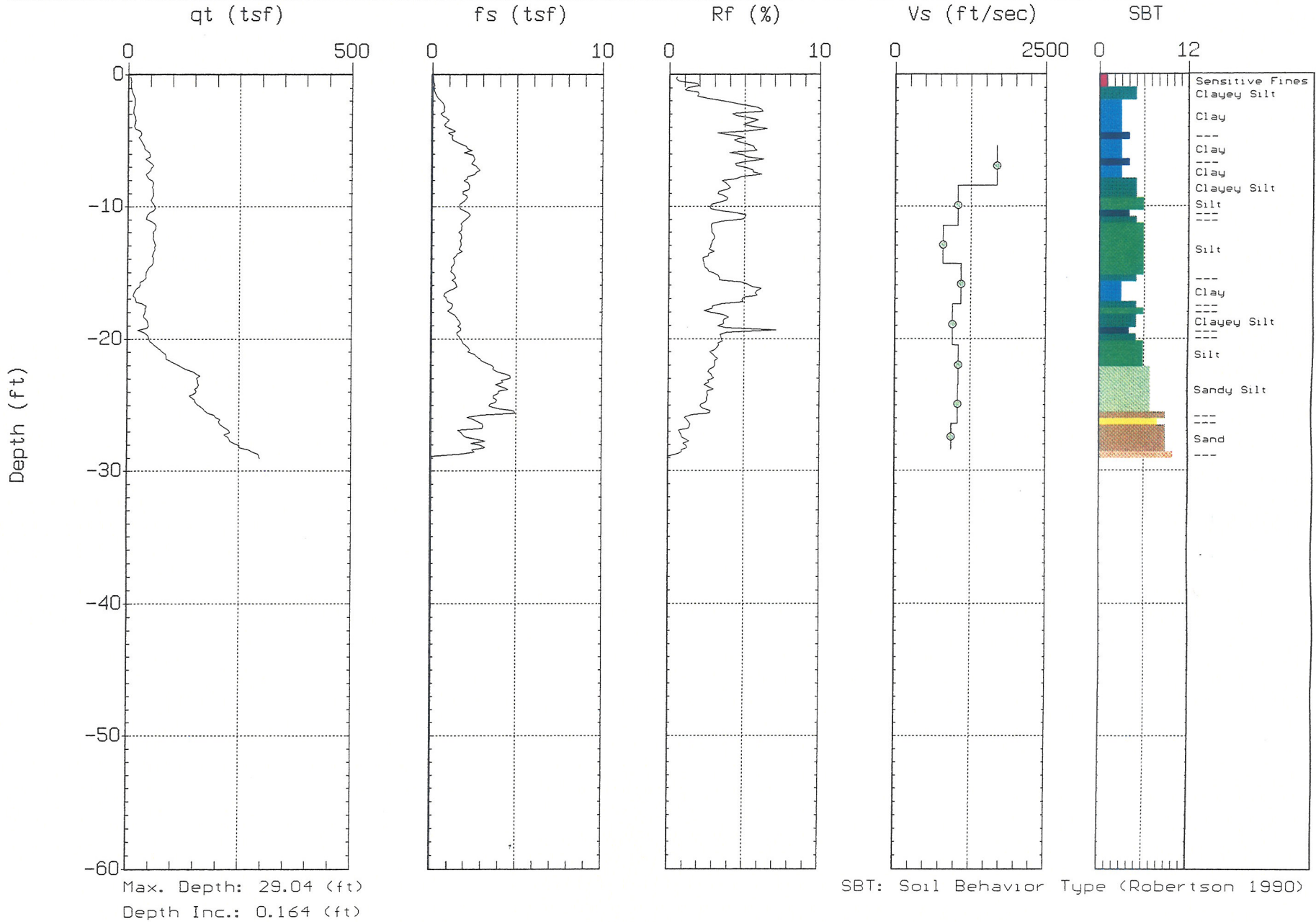




MACTEC

Site: NORTH ANNA COL.
Location: CPT-902

Operator: R.AGUILAR
Date: 09/21/06 05:27

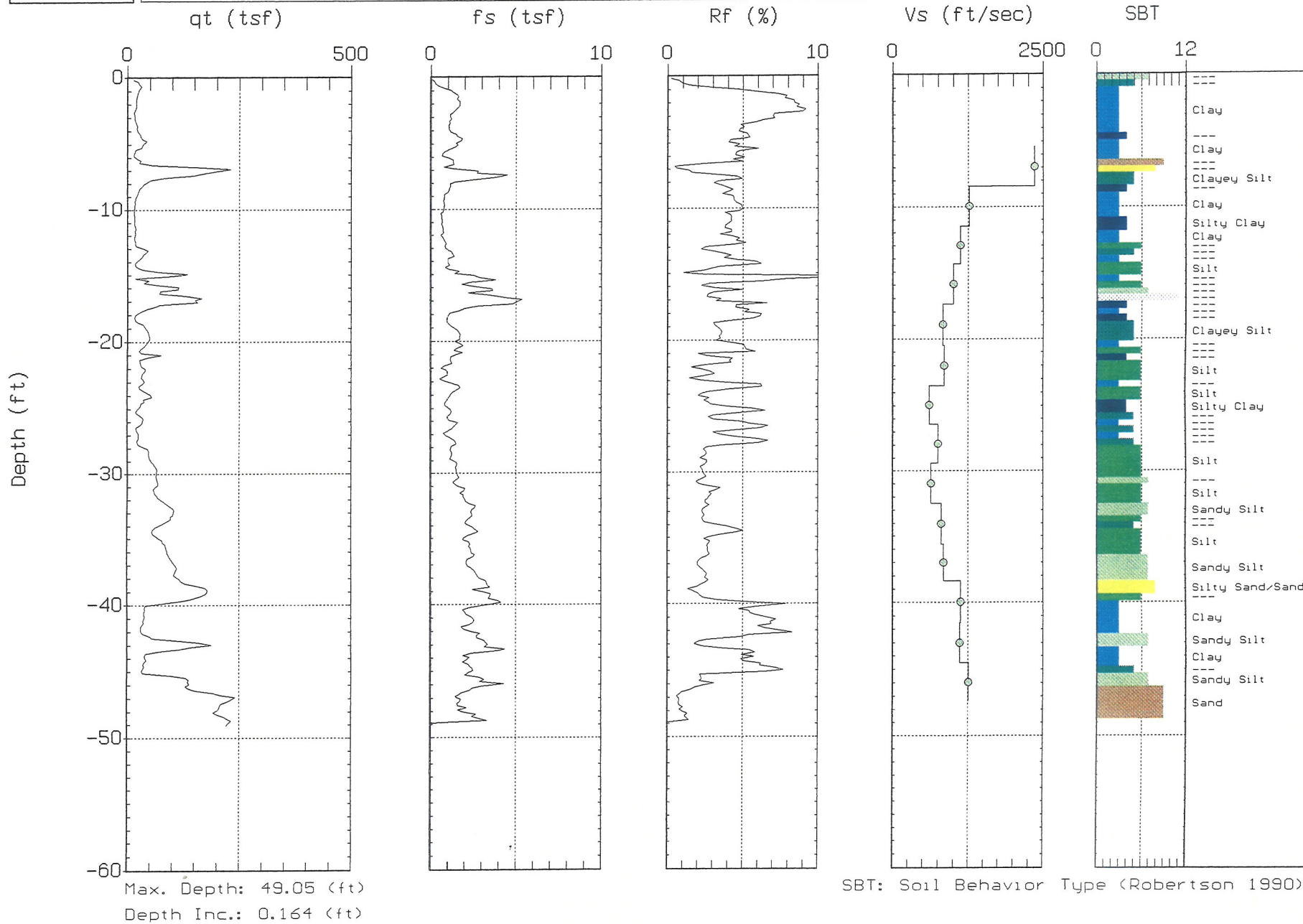




MACTEC

Site: NORTH ANNA COL.
Location: CPT-916

Operator: R.AGUILAR
Date: 09/21/06 08:36

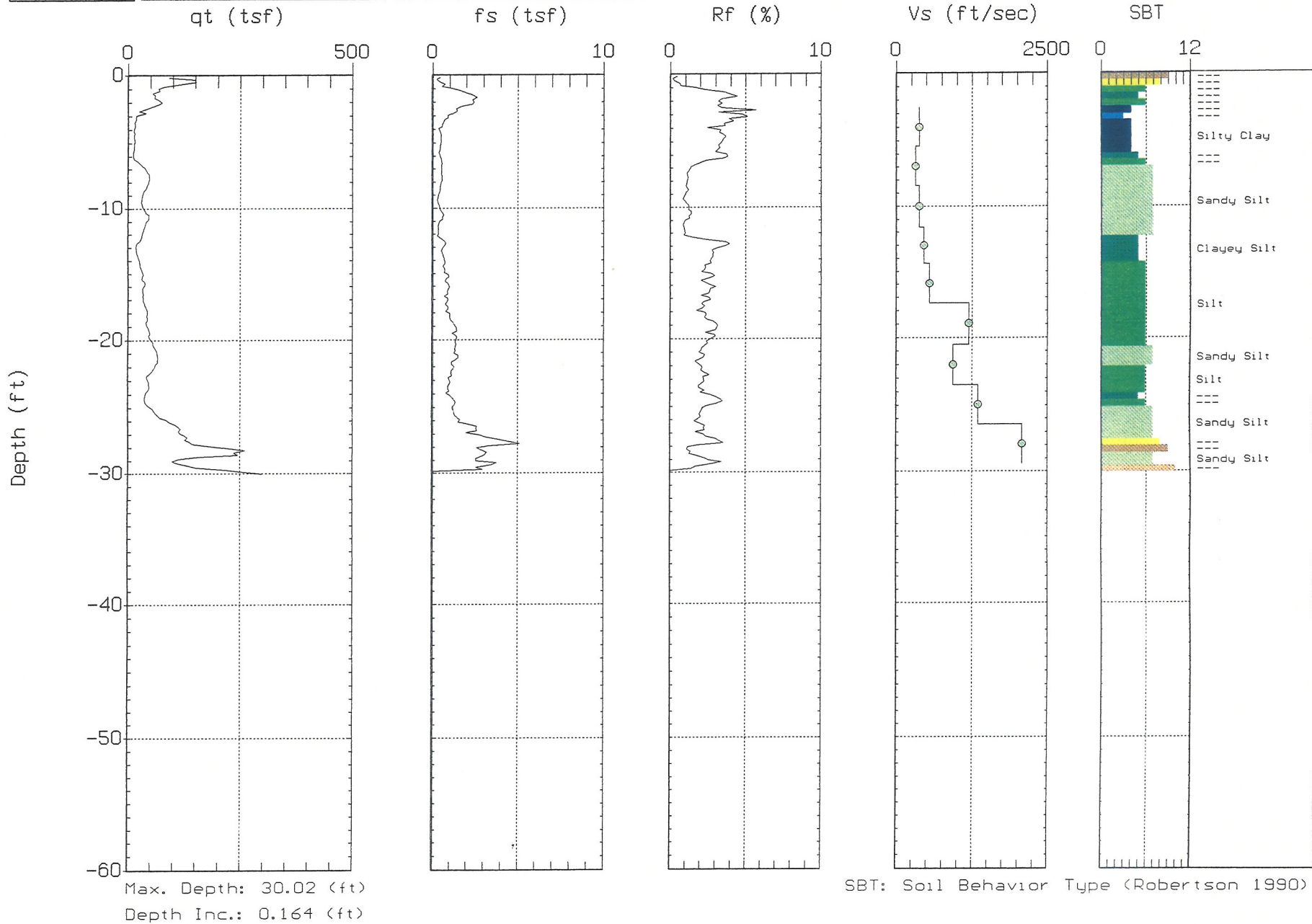




MACTEC

Site: NORTH ANNA COL.
Location: CPT-921

Operator: R. AGUILAR
Date: 09/25/06 05:48

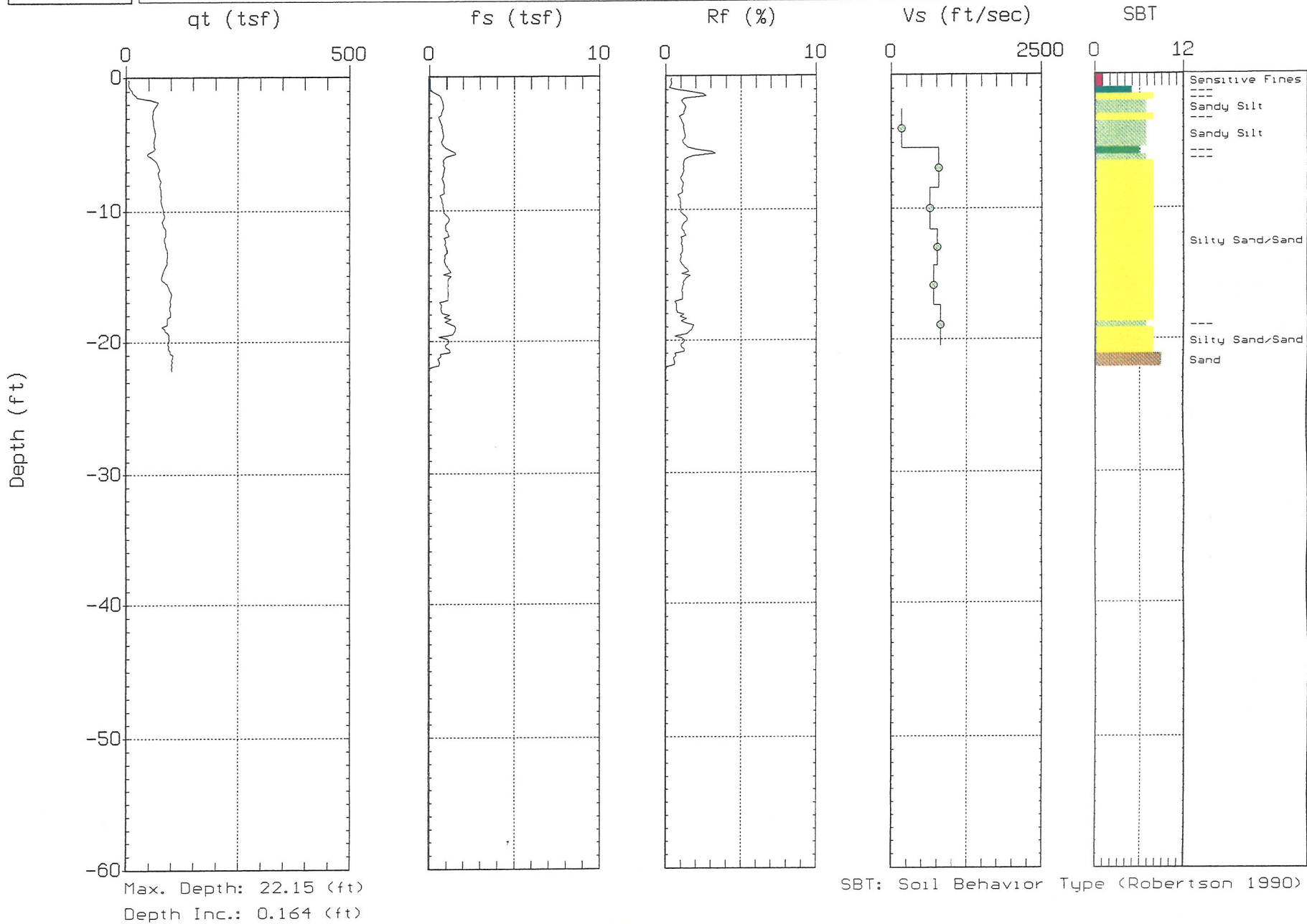




MACTEC

Site: NORTH ANNA COL.
Location: CPT-923

Operator: R. AGUILAR
Date: 09/22/06 11:09

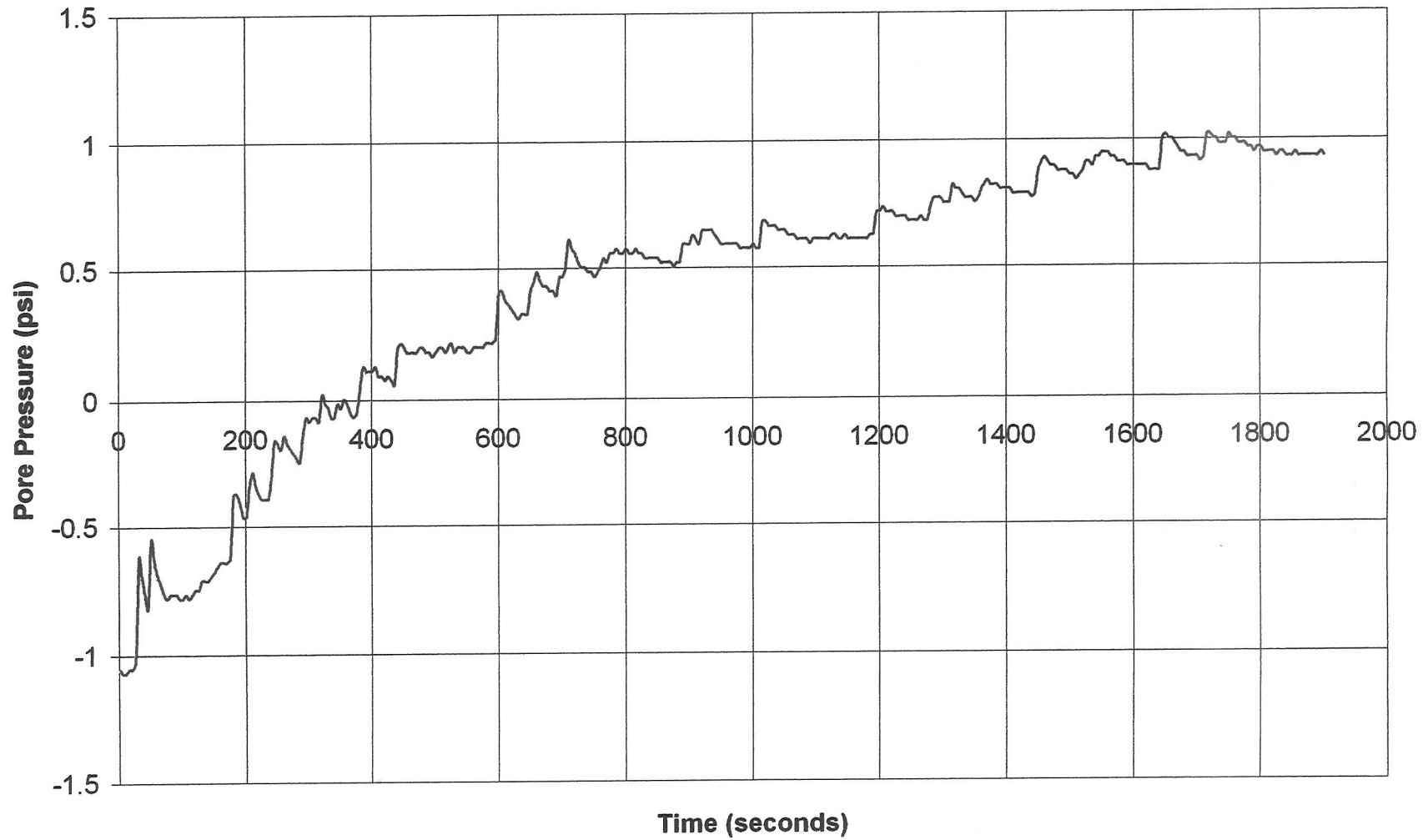




GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: c-902
Depth: 29.035
Site: N.ANNA COL.
Operator: R.AGUILAR

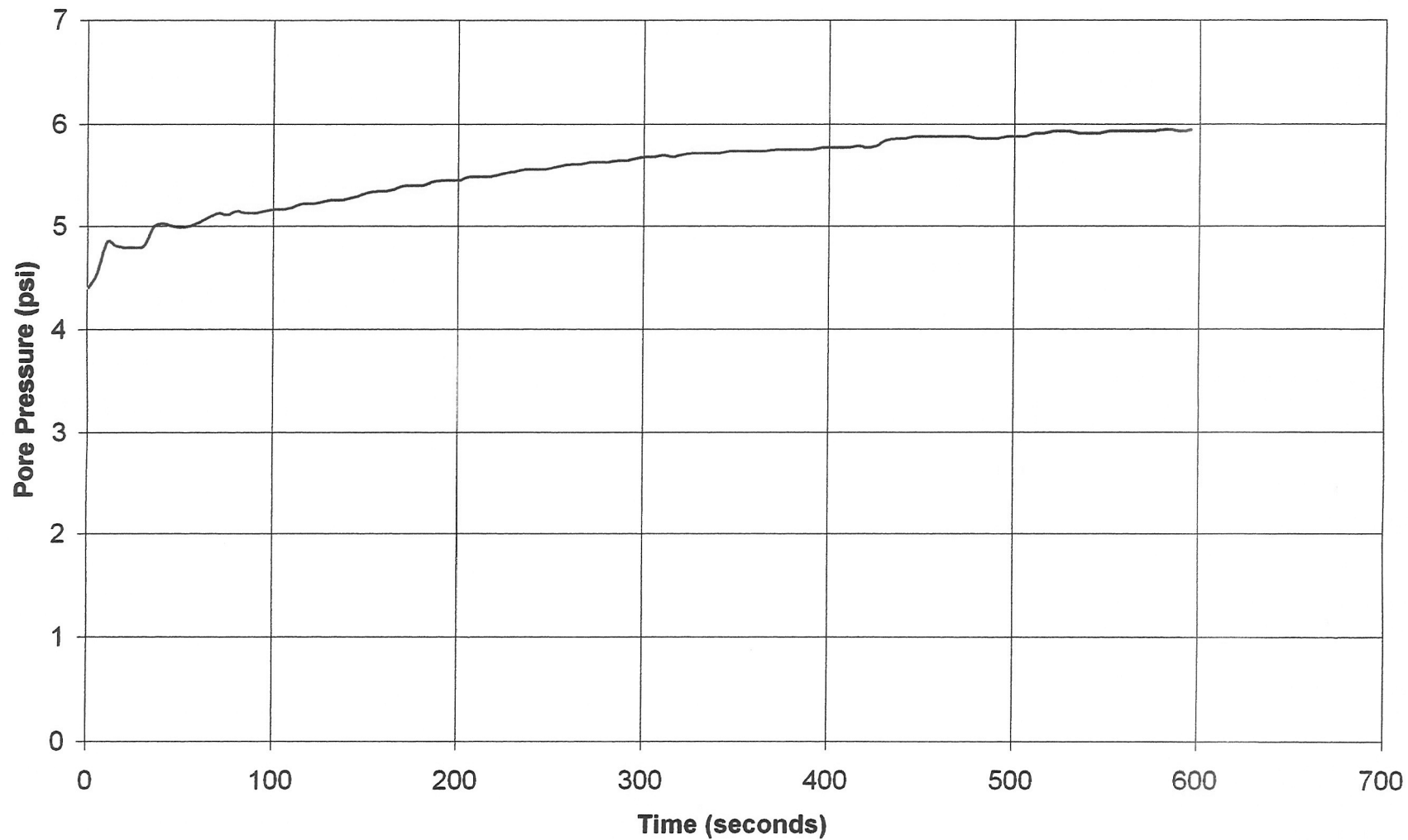




GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: c-904b
Depth: 21.489
Site: N.ANNA COL.
Operator: R.AGUILAR

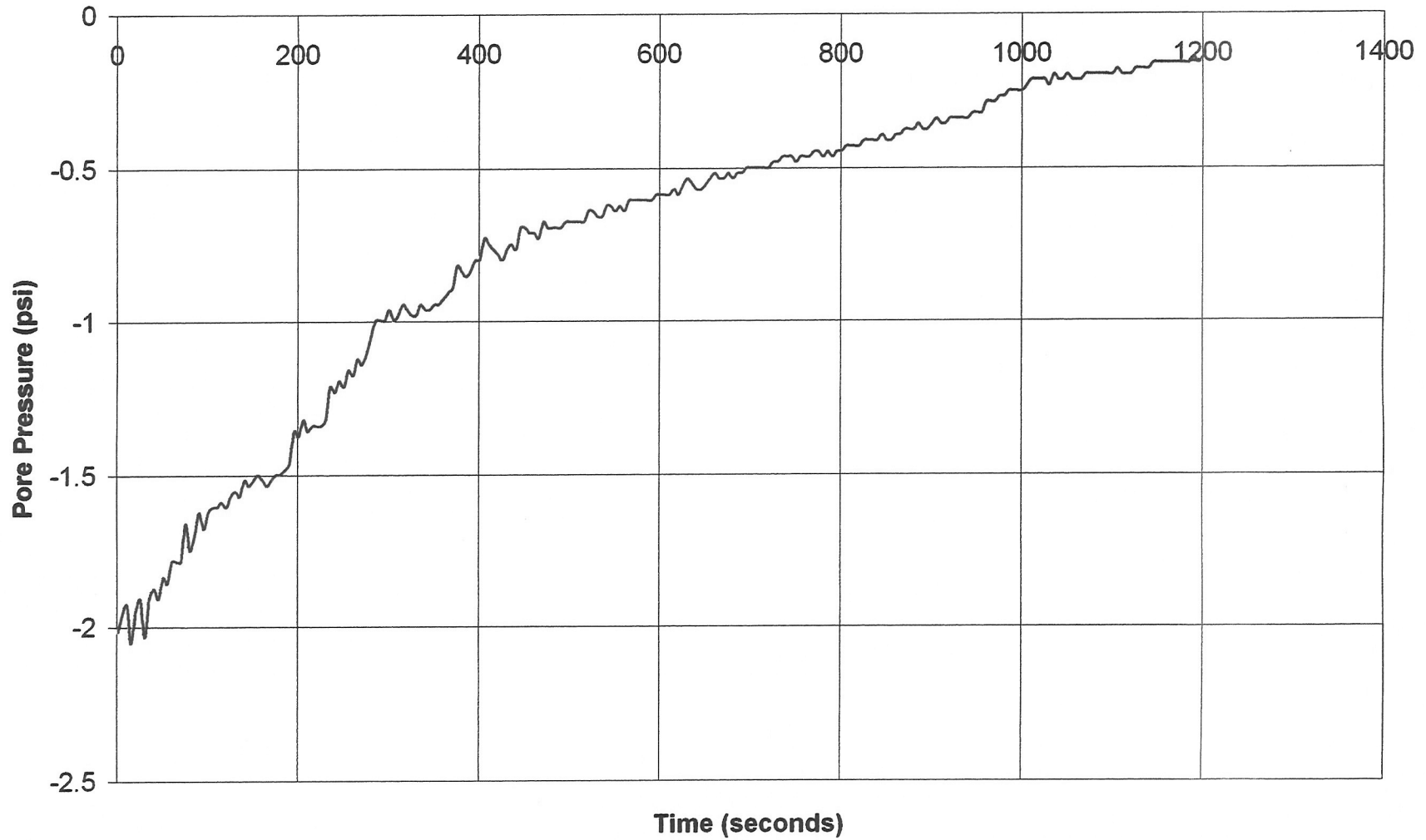




GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: c-911
Depth: 13.287
Site: N.ANNA COL.
Operator: R.AGUILAR



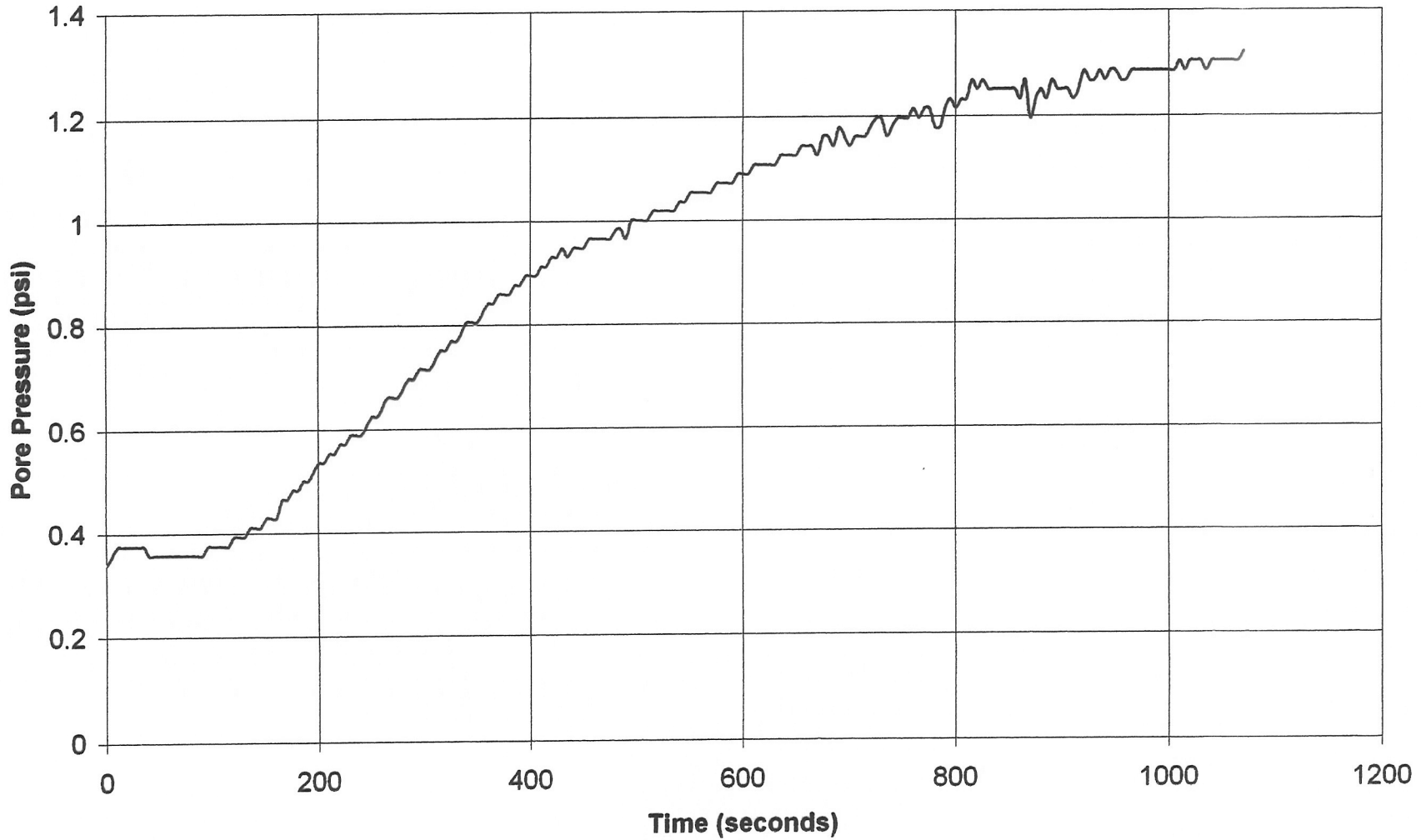


GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: c-917
Depth: 22.146
Site: N.ANNA COL.
Engineer: R.AGUILAR

Rev. 1



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M.A.C.T.E.C.



Shear Wave Velocity Calculations

Mactec
North Anna College

Geophone Offset: 0.66 Feet
Source Offset: 9.17 Feet

06-101sc
c-902

| Test Depth (Feet) | Geophone Depth (Feet) | Waveform Ray Path (Feet) | Incremental Distance (Feet) | Characteristic Arrival Time (ms) | Incremental Time Interval (ms) | Interval Velocity (Ft/Sec) | Interval Depth (Feet) |
|-------------------|-----------------------|--------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------|-----------------------|
| 6.07 | 5.41 | 10.65 | | 16.7500 | | | |
| 9.02 | 8.36 | 12.41 | 1.76 | 17.8000 | 1.0500 | 1679.7 | 6.89 |
| 12.14 | 11.48 | 14.69 | 2.28 | 20.0000 | 2.2000 | 1037.2 | 9.92 |
| 15.09 | 14.43 | 17.10 | 2.41 | 23.0500 | 3.0500 | 789.1 | 12.96 |
| 18.04 | 17.38 | 19.65 | 2.56 | 25.4000 | 2.3500 | 1087.7 | 15.91 |
| 21.16 | 20.50 | 22.46 | 2.80 | 28.3500 | 2.9500 | 950.5 | 18.94 |
| 24.11 | 23.45 | 25.18 | 2.72 | 30.9500 | 2.6000 | 1047.8 | 21.98 |
| 27.07 | 26.41 | 27.95 | 2.77 | 33.6000 | 2.6500 | 1045.6 | 24.93 |
| 29.04 | 28.38 | 29.82 | 1.87 | 35.6000 | 2.0000 | 933.3 | 27.39 |



Shear Wave Velocity Calculations

Mactec
North Anna College

Geophone Offset: 0.66 Feet
Source Offset: 9.17 Feet

06-101sc
c-916

| Test Depth (Feet) | Geophone Depth (Feet) | Waveform Ray Path (Feet) | Incremental Distance (Feet) | Characteristic Arrival Time (ms) | Incremental Time Interval (ms) | Interval Velocity (Ft/Sec) | Interval Depth (Feet) |
|-------------------|-----------------------|--------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------|-----------------------|
| 6.07 | 5.41 | 10.65 | | 18.9000 | | | |
| 9.02 | 8.36 | 12.41 | 1.76 | 19.6500 | 0.7500 | 2351.5 | 6.89 |
| 12.14 | 11.48 | 14.69 | 2.28 | 21.4500 | 1.8000 | 1267.6 | 9.92 |
| 15.09 | 14.43 | 17.10 | 2.41 | 23.6000 | 2.1500 | 1119.4 | 12.96 |
| 18.04 | 17.38 | 19.65 | 2.56 | 26.1500 | 2.5500 | 1002.4 | 15.91 |
| 21.16 | 20.50 | 22.46 | 2.80 | 29.5500 | 3.4000 | 824.7 | 18.94 |
| 24.11 | 23.45 | 25.18 | 2.72 | 32.7500 | 3.2000 | 851.3 | 21.98 |
| 27.07 | 26.41 | 27.95 | 2.77 | 37.3000 | 4.5500 | 608.9 | 24.93 |
| 30.02 | 29.36 | 30.76 | 2.80 | 41.0500 | 3.7500 | 747.9 | 27.88 |
| 33.14 | 32.48 | 33.75 | 2.99 | 45.7500 | 4.7000 | 635.7 | 30.92 |
| 36.25 | 35.59 | 36.76 | 3.01 | 49.5000 | 3.7500 | 802.5 | 34.03 |
| 39.04 | 38.38 | 39.46 | 2.71 | 52.7000 | 3.2000 | 845.8 | 36.99 |
| 42.16 | 41.50 | 42.50 | 3.04 | 55.4000 | 2.7000 | 1125.1 | 39.94 |
| 45.11 | 44.45 | 45.39 | 2.89 | 58.0000 | 2.6000 | 1110.6 | 42.98 |
| 48.06 | 47.40 | 48.28 | 2.90 | 60.3000 | 2.3000 | 1258.9 | 45.93 |



Shear Wave Velocity Calculations

Mactec
North Anna College

Geophone Offset: 0.66 Feet
Source Offset: 9.17 Feet

06-101sc
c-921

| Test Depth (Feet) | Geophone Depth (Feet) | Waveform Ray Path (Feet) | Incremental Distance (Feet) | Characteristic Arrival Time (ms) | Incremental Time Interval (ms) | Interval Velocity (Ft/Sec) | Interval Depth (Feet) |
|-------------------|-----------------------|--------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------|-----------------------|
| 3.12 | 2.46 | 9.49 | 9.49 | 14.0500 | | | |
| 6.07 | 5.41 | 10.65 | 1.15 | 17.1500 | 3.1000 | 372.0 | 3.93 |
| 9.02 | 8.36 | 12.41 | 1.76 | 22.8000 | 5.6500 | 312.2 | 6.89 |
| 12.30 | 11.64 | 14.82 | 2.41 | 29.1500 | 6.3500 | 379.6 | 10.00 |
| 15.09 | 14.43 | 17.10 | 2.28 | 34.1500 | 5.0000 | 455.6 | 13.04 |
| 18.04 | 17.38 | 19.65 | 2.56 | 38.8500 | 4.7000 | 543.9 | 15.91 |
| 21.16 | 20.50 | 22.46 | 2.80 | 41.2000 | 2.3500 | 1193.2 | 18.94 |
| 24.11 | 23.45 | 25.18 | 2.72 | 44.1000 | 2.9000 | 939.4 | 21.98 |
| 27.07 | 26.41 | 27.95 | 2.77 | 46.1500 | 2.0500 | 1351.6 | 24.93 |
| 30.02 | 29.36 | 30.76 | 2.80 | 47.5000 | 1.3500 | 2077.5 | 27.88 |



Shear Wave Velocity Calculations

Mactec
North Anna College

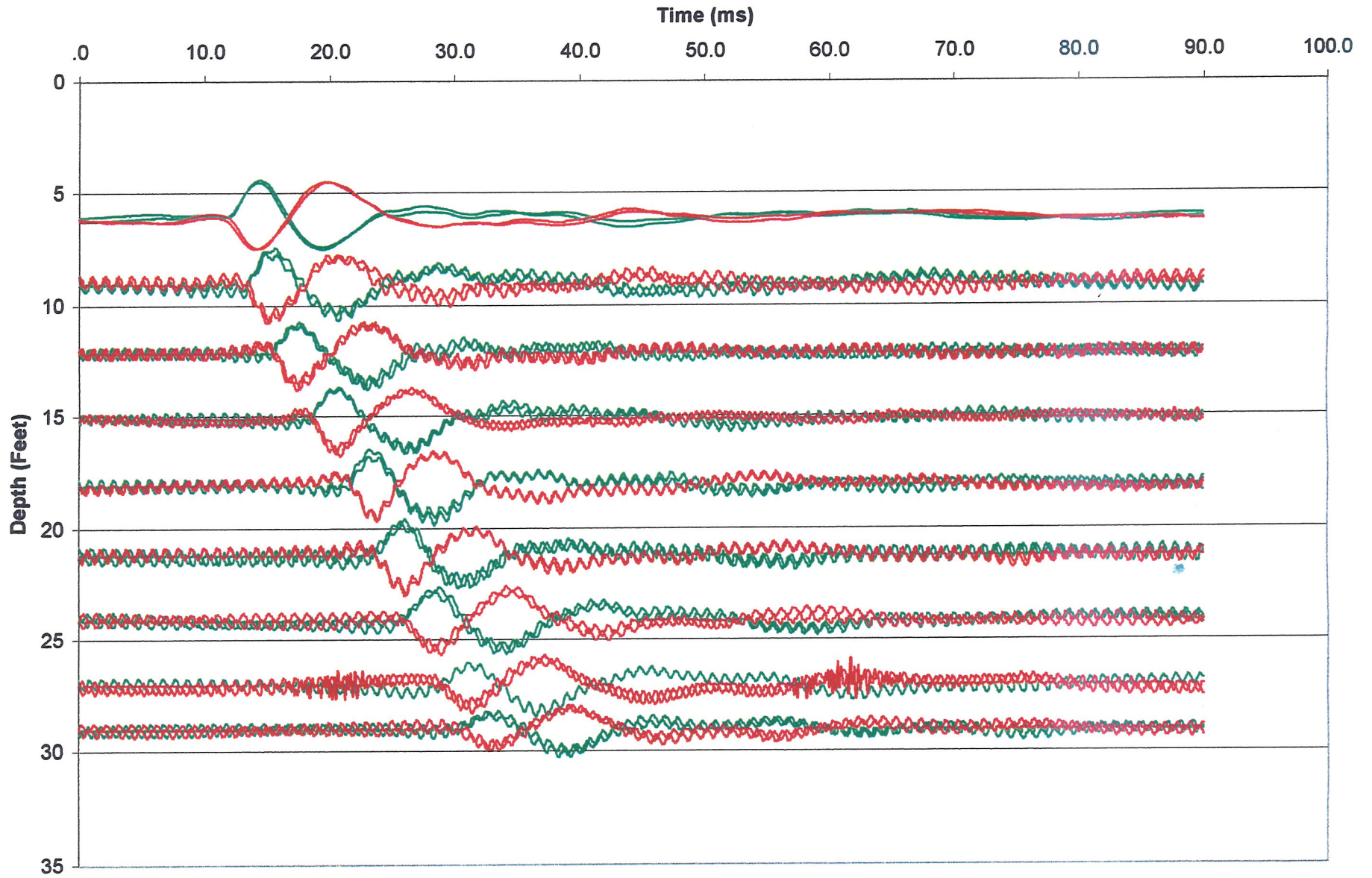
Geophone Offset: 0.66 Feet
Source Offset: 9.17 Feet

06-101sc
c-923

| Test Depth (Feet) | Geophone Depth (Feet) | Waveform Ray Path (Feet) | Incremental Distance (Feet) | Characteristic Arrival Time (ms) | Incremental Time Interval (ms) | Interval Velocity (Ft/Sec) | Interval Depth (Feet) |
|-------------------|-----------------------|--------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------|-----------------------|
| 3.12 | 2.46 | 9.49 | 9.49 | 12.9500 | | | |
| 6.07 | 5.41 | 10.65 | 1.15 | 19.7500 | 6.8000 | 169.6 | 3.93 |
| 9.02 | 8.36 | 12.41 | 1.76 | 22.0000 | 2.2500 | 783.8 | 6.89 |
| 12.30 | 11.64 | 14.82 | 2.41 | 25.8000 | 3.8000 | 634.3 | 10.00 |
| 15.09 | 14.43 | 17.10 | 2.28 | 28.8000 | 3.0000 | 759.4 | 13.04 |
| 18.04 | 17.38 | 19.65 | 2.56 | 32.4500 | 3.6500 | 700.3 | 15.91 |
| 21.16 | 20.50 | 22.46 | 2.80 | 35.9000 | 3.4500 | 812.7 | 18.94 |

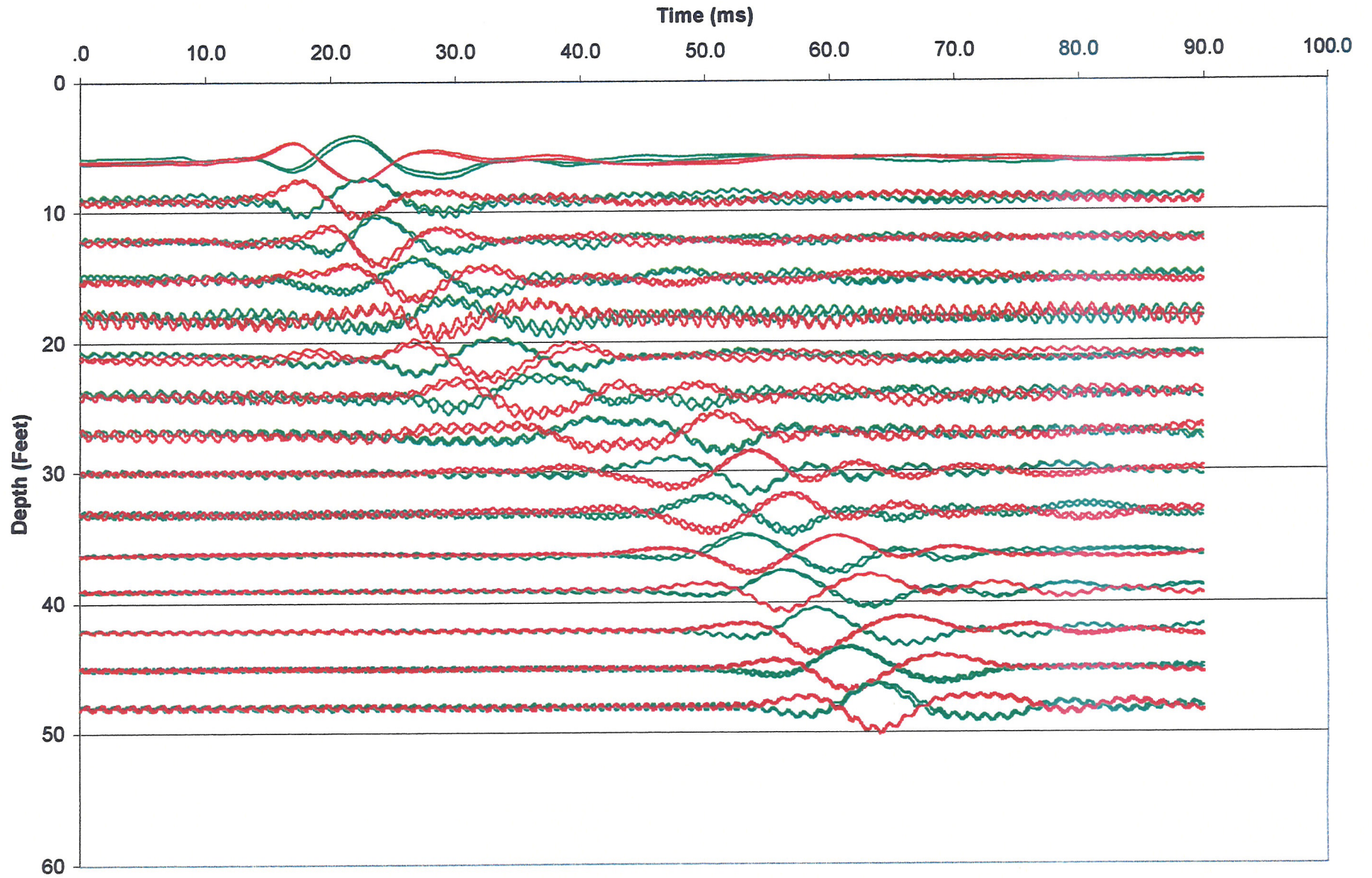


Waveforms for sounding c-902



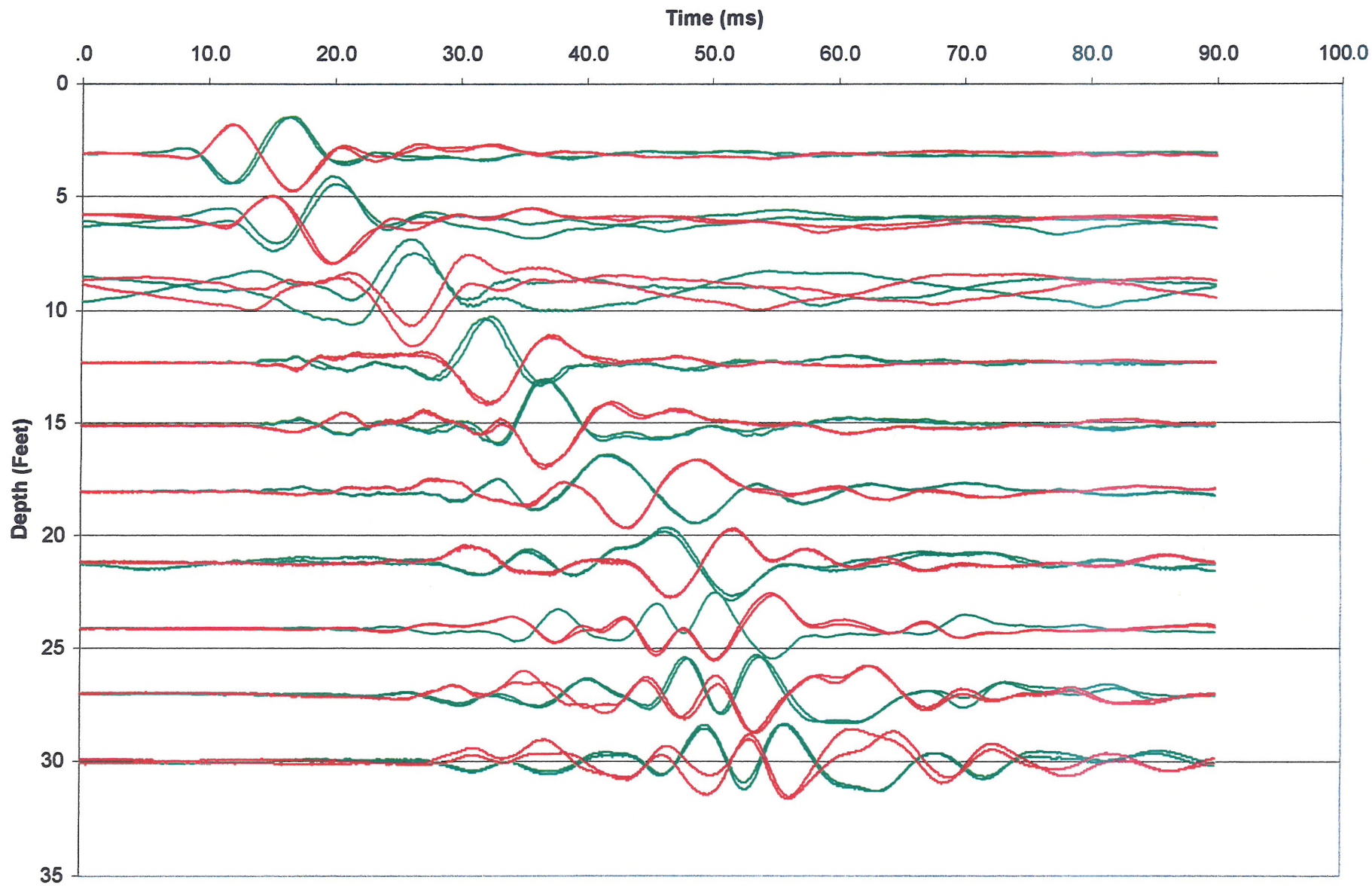


Waveforms for sounding c-916





Waveforms for sounding c-921





Waveforms for sounding c-923

