



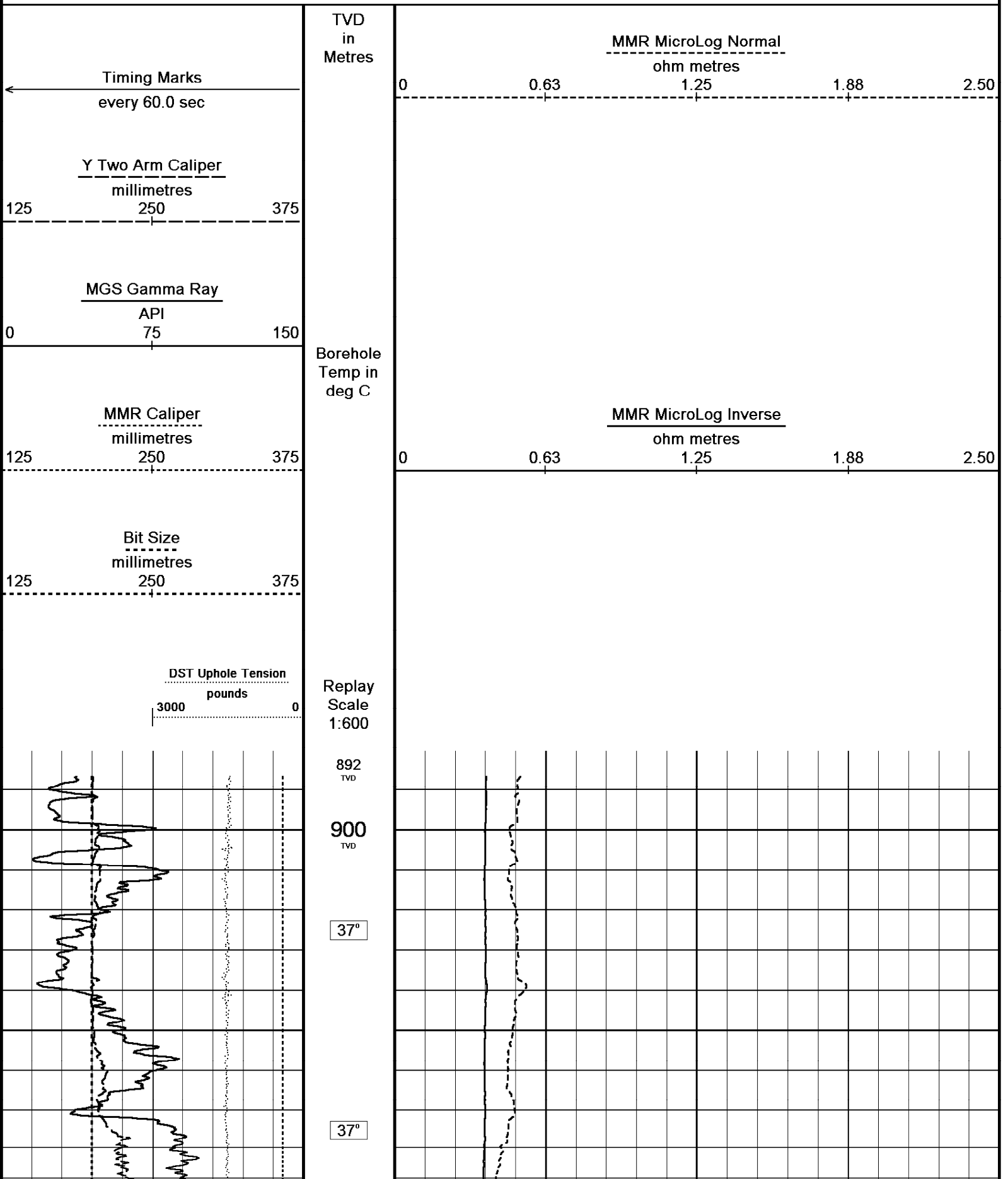
# TRUE VERTICAL DEPTH MICROLOG

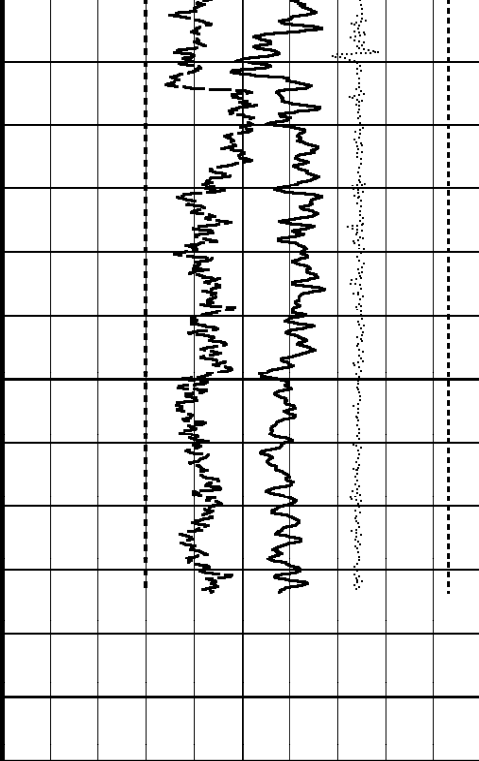
|                        |                                     |     |     |                                                           |
|------------------------|-------------------------------------|-----|-----|-----------------------------------------------------------|
| COMPANY                | PARAMOUNT RESOURCES LTD.            |     |     |                                                           |
| WELL                   | PARA ET AL CAMERON L40              |     |     |                                                           |
| FIELD                  | CAMERON HILLS                       |     |     |                                                           |
| PROVINCE               | NORTHWEST TERRITORIES               |     |     |                                                           |
| COUNTRY                | CANADA                              |     |     |                                                           |
| LOCATION               | 300L406010117300                    |     |     |                                                           |
| LSD                    | SEC                                 | TWP | RGE | Other Services                                            |
| API Number             | Permit Number 2045                  |     |     | ARRAY INDUCTION                                           |
| Permanent Datum        | OUND LEVEL, Elevation 684.70 metres |     |     | COMPENSATED SONIC                                         |
| Log Measured From      | 5.4 Mabove Permanent Datum          |     |     | DUAL SPACED NEUTRON                                       |
| Drilling Measured From | KELLY BUSHING                       |     |     |                                                           |
| Date                   | 24-JAN-2007                         |     |     | Elevations:<br>KB 690.10 metres<br>DF 684.70 metres<br>GL |
| Run Number             | 1                                   |     |     |                                                           |
| Depth Driller          | 1437.20                             |     |     | metres                                                    |
| Depth Logger           | 1437.50                             |     |     | metres                                                    |
| First Reading          | 1424.90                             |     |     | metre                                                     |
| Last Reading           | 1267.00                             |     |     | metre                                                     |
| Casing Driller         | 425.00                              |     |     | metres                                                    |
| Casing Logger          | 425.10                              |     |     | metres                                                    |
| Bit Size               | 200.00                              |     |     | mm                                                        |
| Hole Fluid Type        | GELCHEM                             |     |     |                                                           |
| Density / Viscosity    | 1110.0 kg/M3                        |     |     | 85.00 sec/L                                               |
| PH / Fluid Loss        | 10.00                               |     |     | 13.00 ml/30Min                                            |
| Sample Source          | FLOWLINE                            |     |     |                                                           |
| Rm @ Measured Temp     | 0.60 @ 25.0                         |     |     | ohm-m                                                     |
| Rmf @ Measured Temp    | 0.41 @ 25.0                         |     |     | ohm-m                                                     |
| Rmc @ Measured Temp    | 0.83 @ 25.0                         |     |     | ohm-m                                                     |
| Source Rmf / Rmc       | PRESS                               |     |     | FILTER                                                    |
| Rm @ BHT               | 0.40 @ 48.0                         |     |     | ohm-m                                                     |
| Time Since Circulation | 6 HRS                               |     |     |                                                           |
| Max Recorded Temp      | 48.00                               |     |     | deg C                                                     |
| Equipment Name         | 3424                                |     |     |                                                           |
| Equipment / Base       | QUINT                               |     |     | GPR                                                       |
| Recorded By            | M. SURKA / M. BONNELL               |     |     |                                                           |
| Witnessed By           | B. POWELL                           |     |     |                                                           |
| CIRC. STOP             | 12.45 JAN 24                        |     |     | Last Line                                                 |

| BOREHOLE RECORD         |                      |                      | Last Edited: 24-JAN-2007 18:55 |                     |
|-------------------------|----------------------|----------------------|--------------------------------|---------------------|
| Bit Size<br>millimetres | Depth From<br>metres | Depth To<br>metres   |                                |                     |
| 311.000                 | 0.00                 | 425.00               |                                |                     |
| 200.000                 | 425.00               | 1453.00              |                                |                     |
| CASING RECORD           |                      |                      |                                |                     |
| Type                    | Size<br>millimetres  | Depth From<br>metres | Shoe Depth<br>metres           | Weight<br>pounds/ft |
| SURFACE                 | 219.100              | 0.00                 | 425.00                         | 24.00               |

| REMARKS                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) SOFTWARE ISSUE: WLS 7.01.0195                                                                                                                                                        |
| 2) CUSTOMER SCALES AND INTERVALS LOGGED.                                                                                                                                                |
| 3) MAI, MSS, MPD, MDN, MMR, ISC, MGS, MTC, MCG RAN IN COMBINATION.                                                                                                                      |
| 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS<br>MDN: DUAL NEUTRON BOWSPRING<br>MTC: ONE SIX-LEAF CENTRALIZER<br>MSS: THREE 25.4 MM STANDOFFS                                                 |
| 5) SAP# 4145923 # FIELD PRINTS = 2                                                                                                                                                      |
| 6) RIG: PD 220                                                                                                                                                                          |
| 7) HOLE_CEMENT VOLUMES CALCULATED USING DENSITY CALIPER AND TWO ARM CALIPER IN COMBINATION :<br>HOLE VOLUME = 39.4 CU.M.<br>ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 23.8 CU.M |
| 8) SONIC FREE PIPE SIGNAL FOUND FROM 305-318M.                                                                                                                                          |
| 9) MAXIMUM DEVAITION OF 12.3 DEGREES AT 1230.7 M                                                                                                                                        |

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any





950  
TVD

38°

39°

1000  
TVD

TVD  
in  
Metres

Timing Marks  
every 60.0 sec

Y Two Arm Caliper  
millimetres  
125 250 375

MGS Gamma Ray  
API  
0 75 150

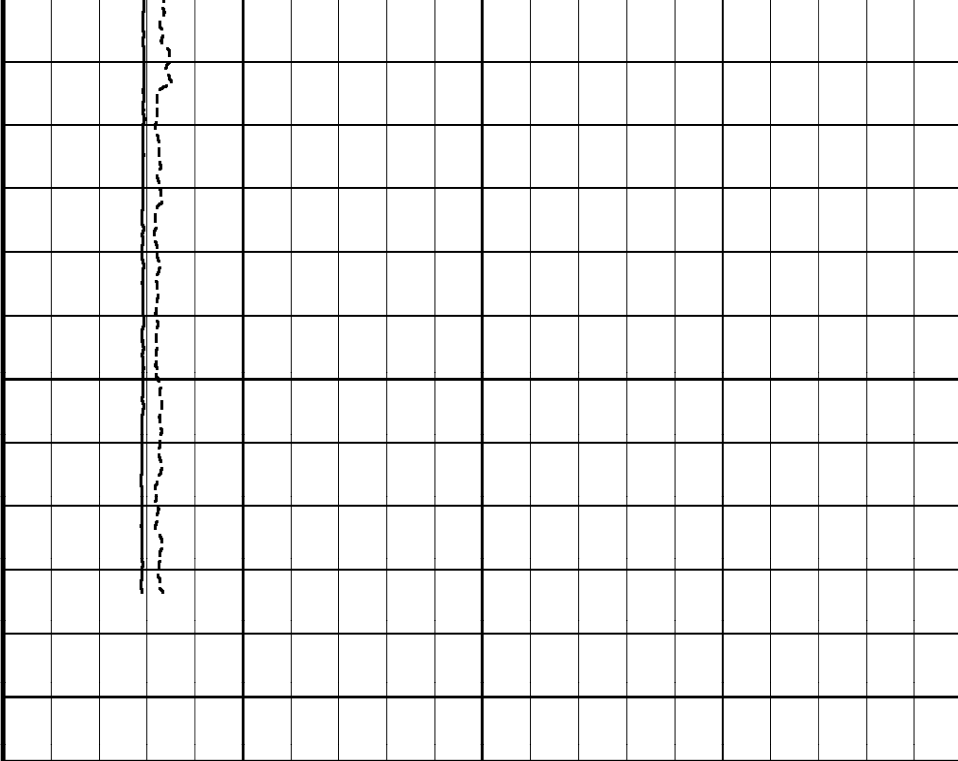
MMR Caliper  
millimetres  
125 250 375

Bit Size  
millimetres  
125 250 375

DST Uphole Tension  
pounds  
3000 0

Borehole  
Temp in  
deg C

Replay  
Scale  
1:600



MMR MicroLog Normal  
ohm metres  
0 0.63 1.25 1.88 2.50

MMR MicroLog Inverse  
ohm metres  
0 0.63 1.25 1.88 2.50

Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\DOCUME~1\murraytm\LOCALS~1\Temp\Precision PreView\L40 SPLICE\_MAIN.dta

System Versions: Processed with 7.01.0195 Plotted with 7.02.0256

Plotted on 25-JAN-2007 03:17

Recorded on 24-JAN-2007 18:58

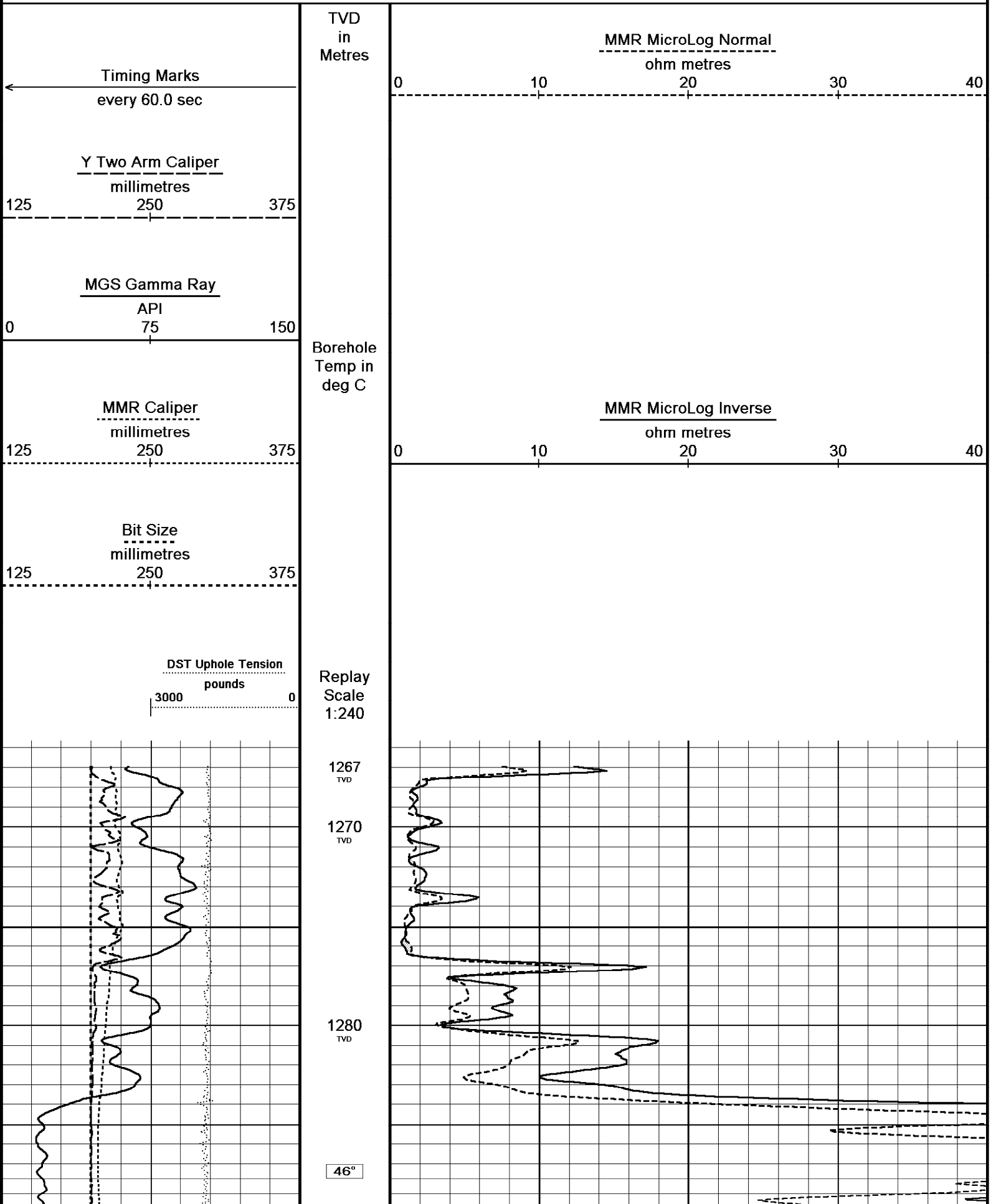


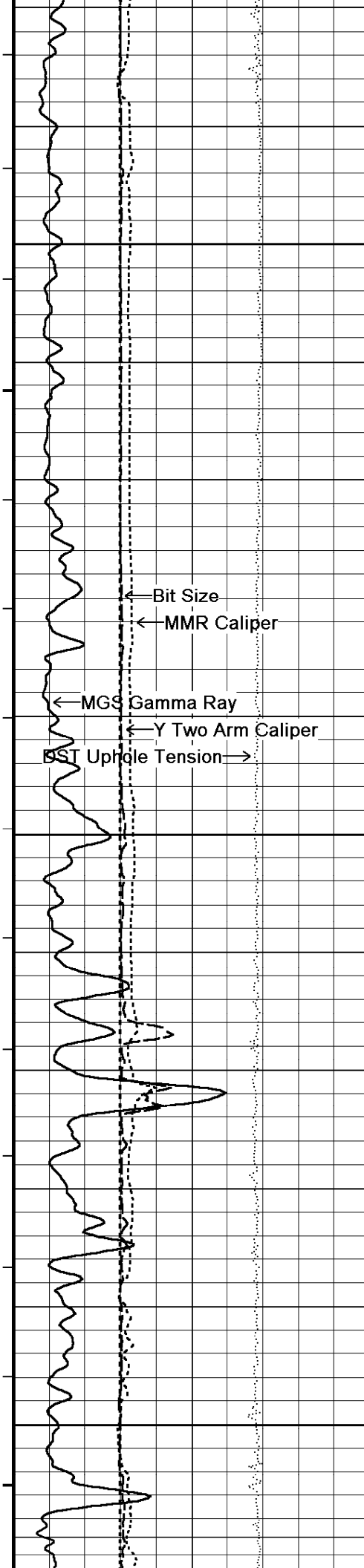
MUD LOG 1:600



Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: C:\DOCUME~1\murraytm\LOCALS~1\Temp\Precision PreView\40 SPLICE\_MAIN.dta  
System Versions: Processed with 7.01.0195 Plotted with 7.02.0256

Plotted on 25-JAN-2007 03:17  
Recorded on 24-JAN-2007 18:58





1290  
TVD

1300  
TVD

1310  
TVD

47°

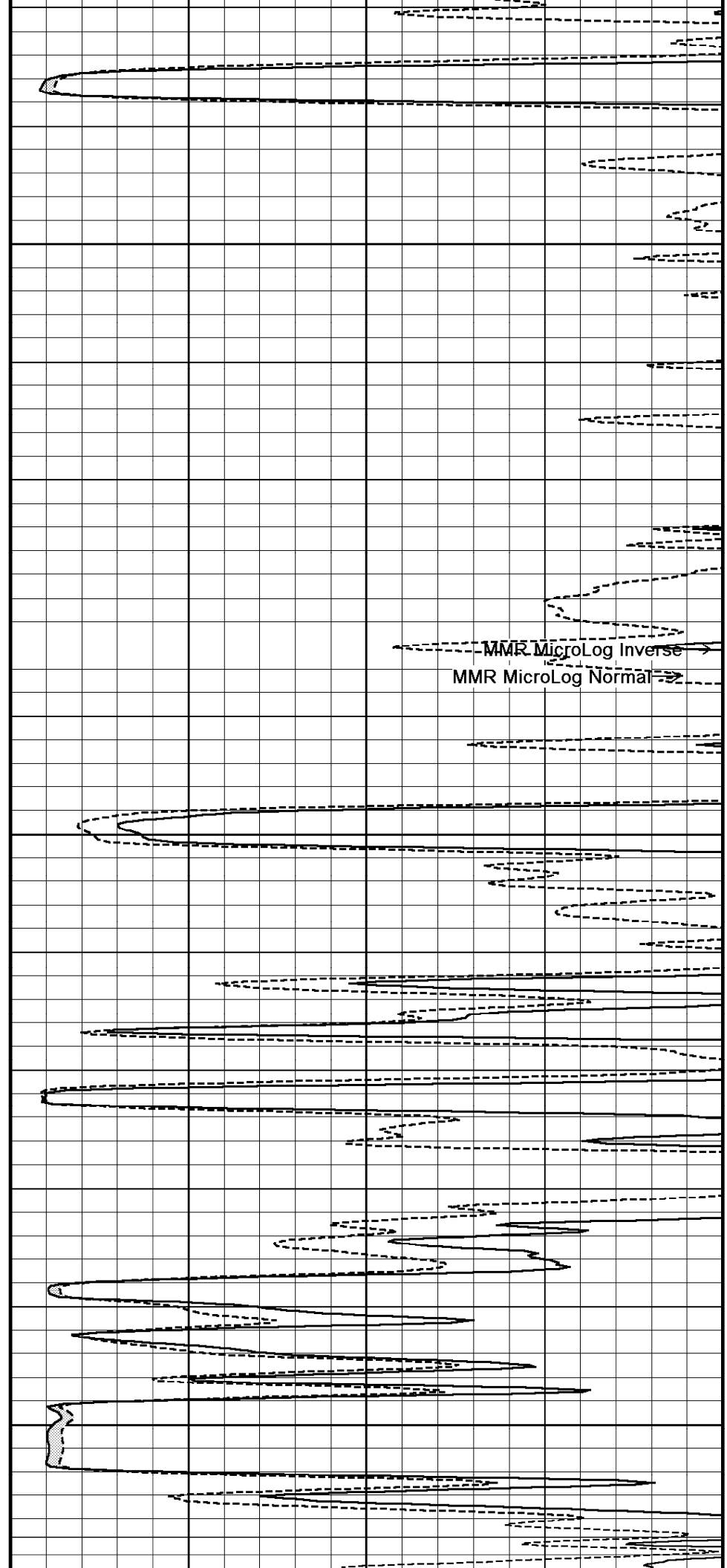
1320  
TVD

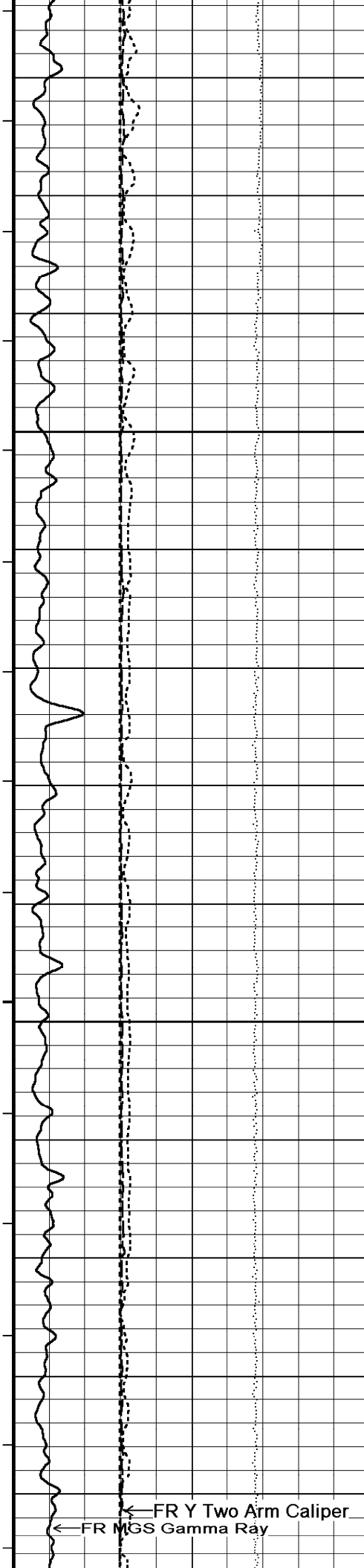
1330  
TVD

47°

1340  
TVD

1350  
TVD





1360  
TVD

48°

1370  
TVD

1380  
TVD

48°

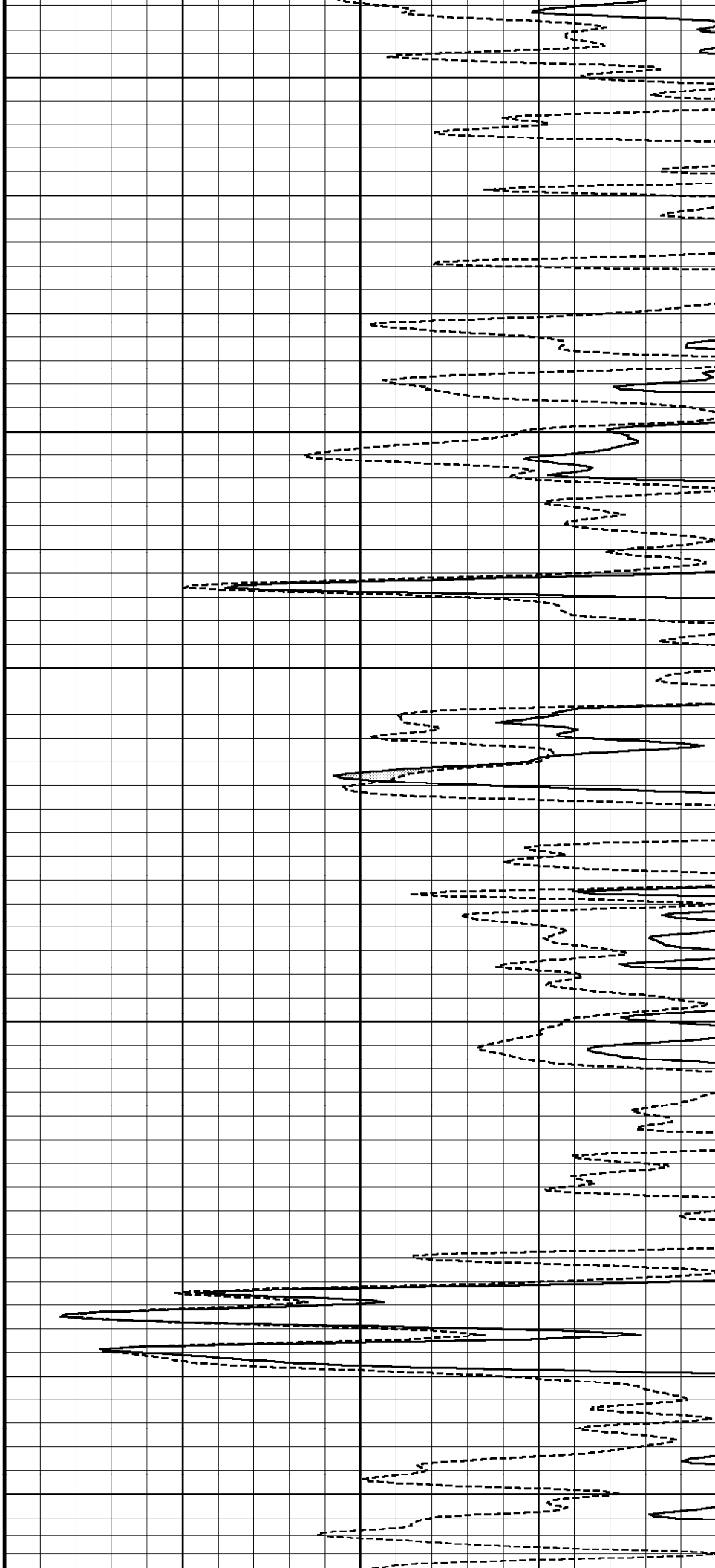
1390  
TVD

1400  
TVD

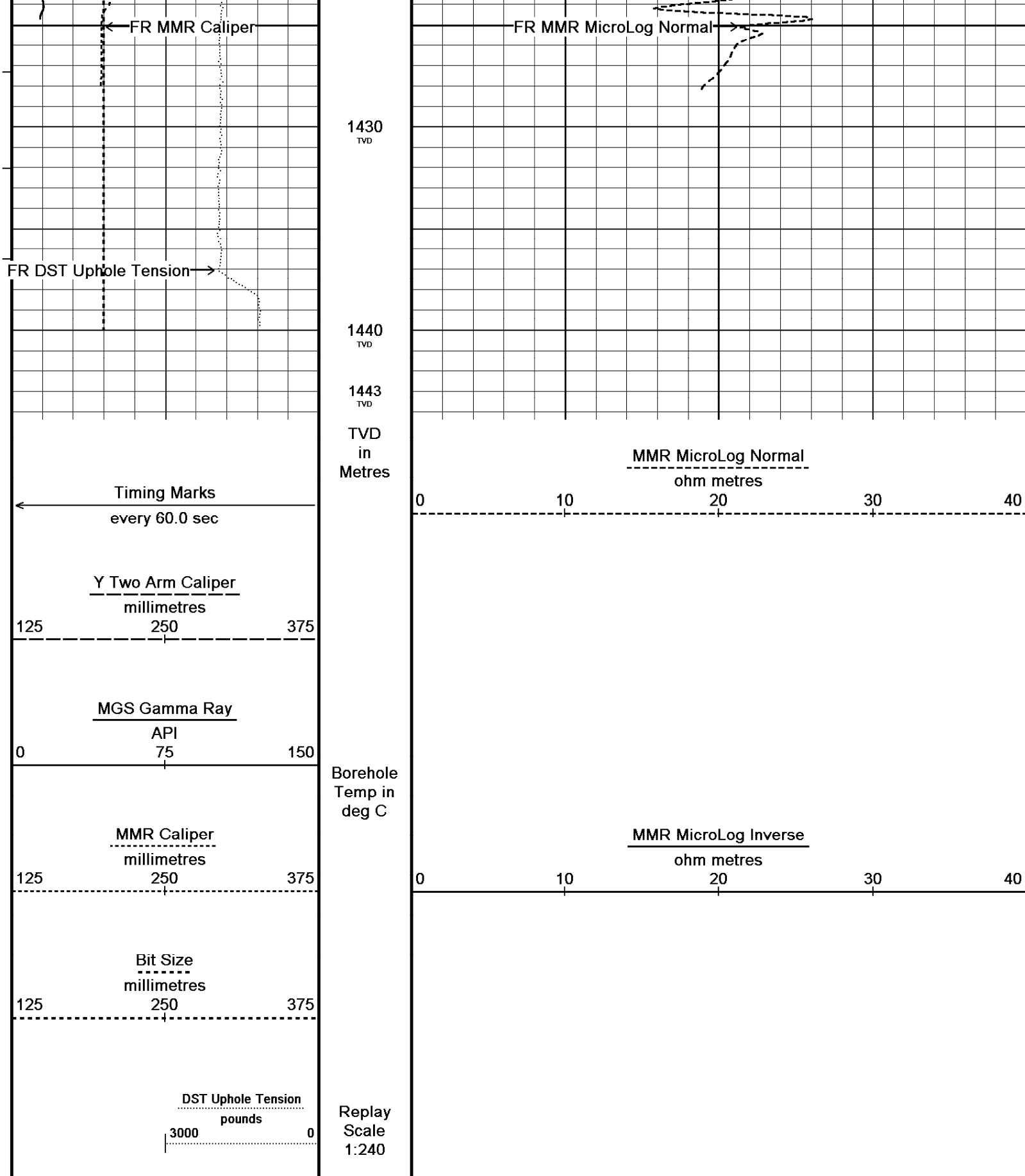
1410  
TVD

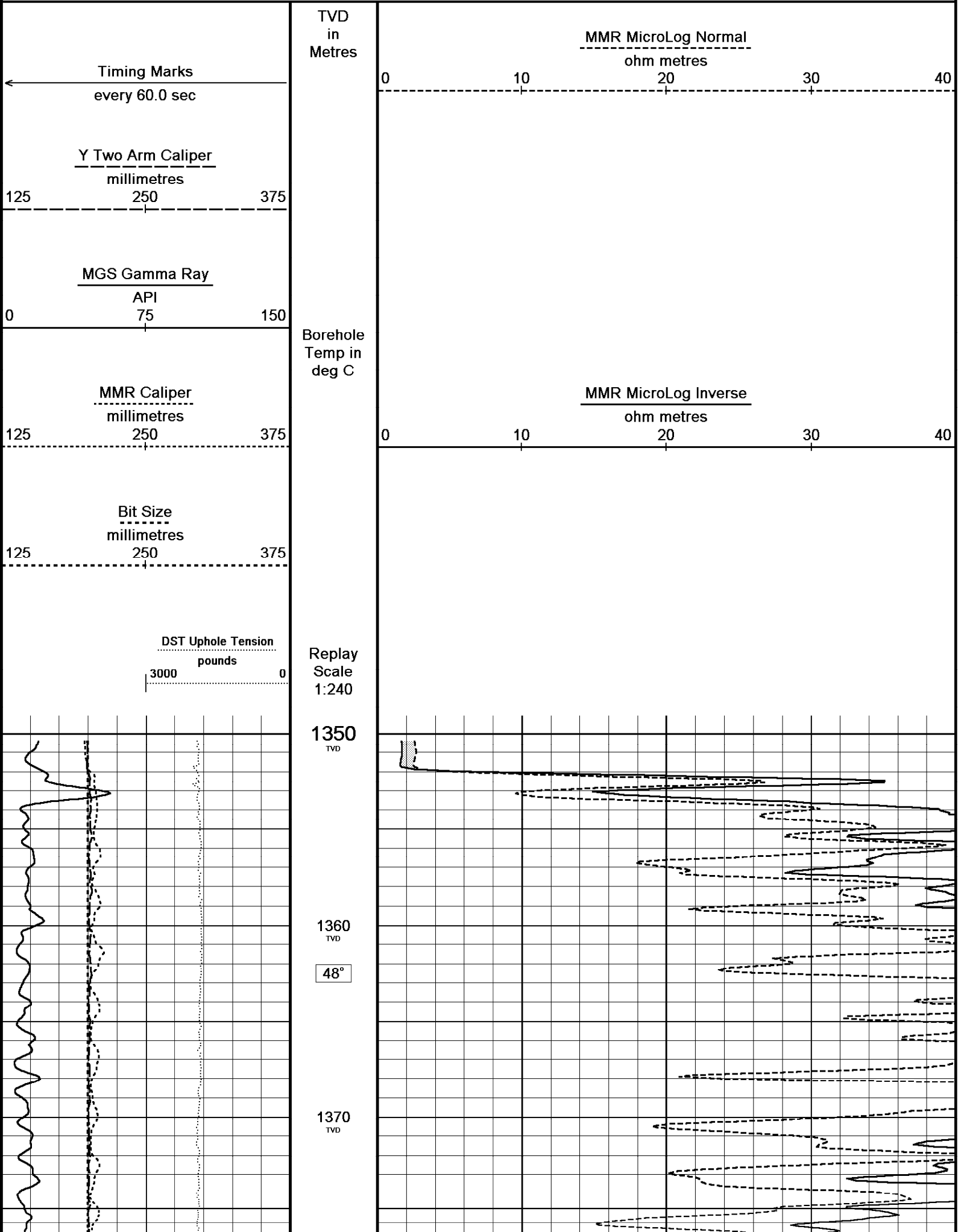
48°

1420  
TVD

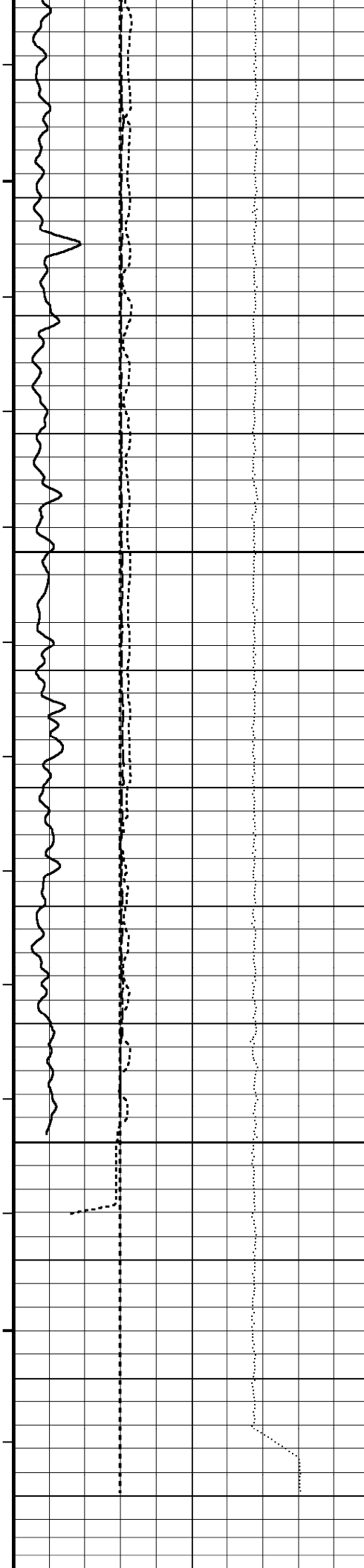


← FR Y Two Arm Caliper  
← FR MGS Gamma Ray









1380  
TVD

48°

1390  
TVD

1400  
TVD

1410  
TVD

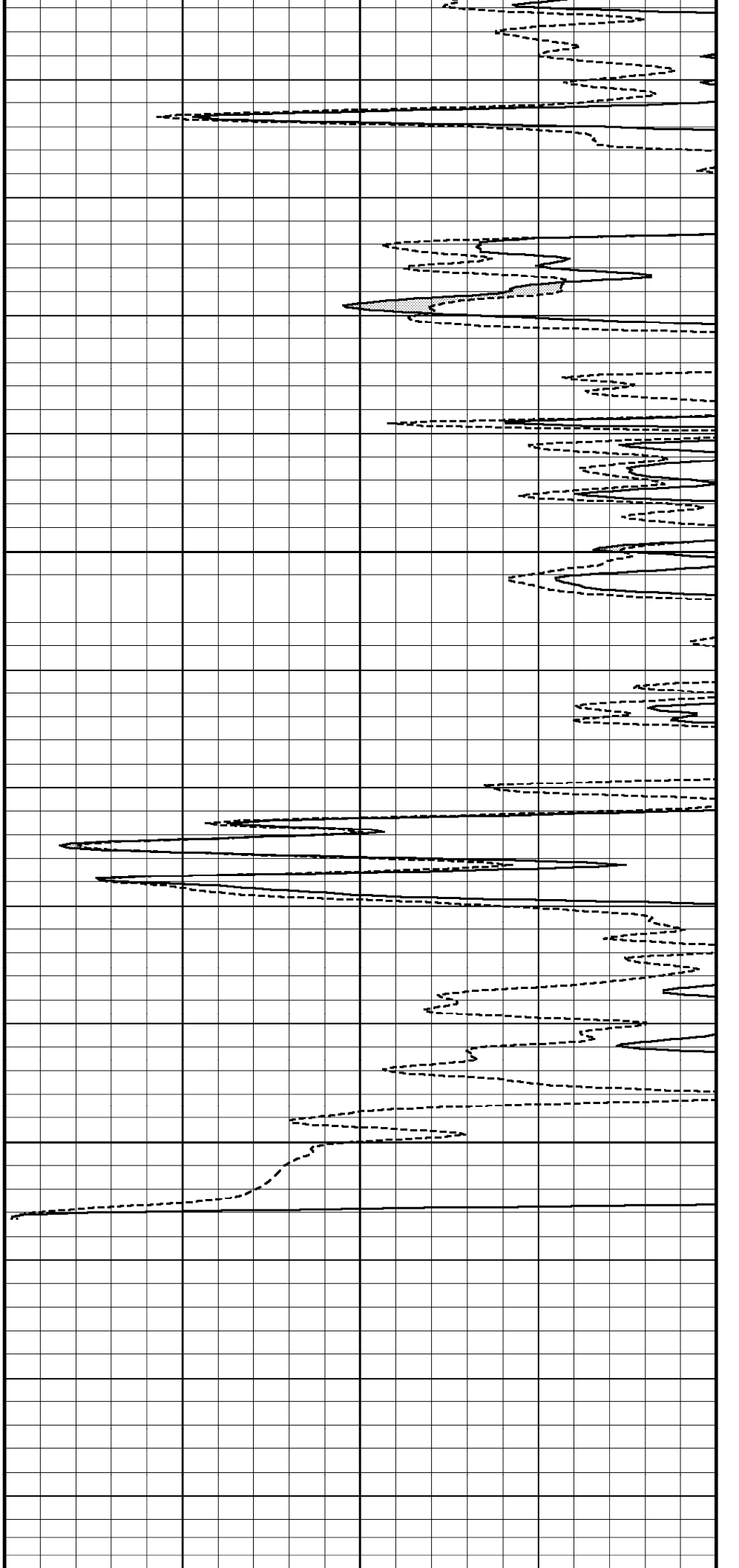
48°

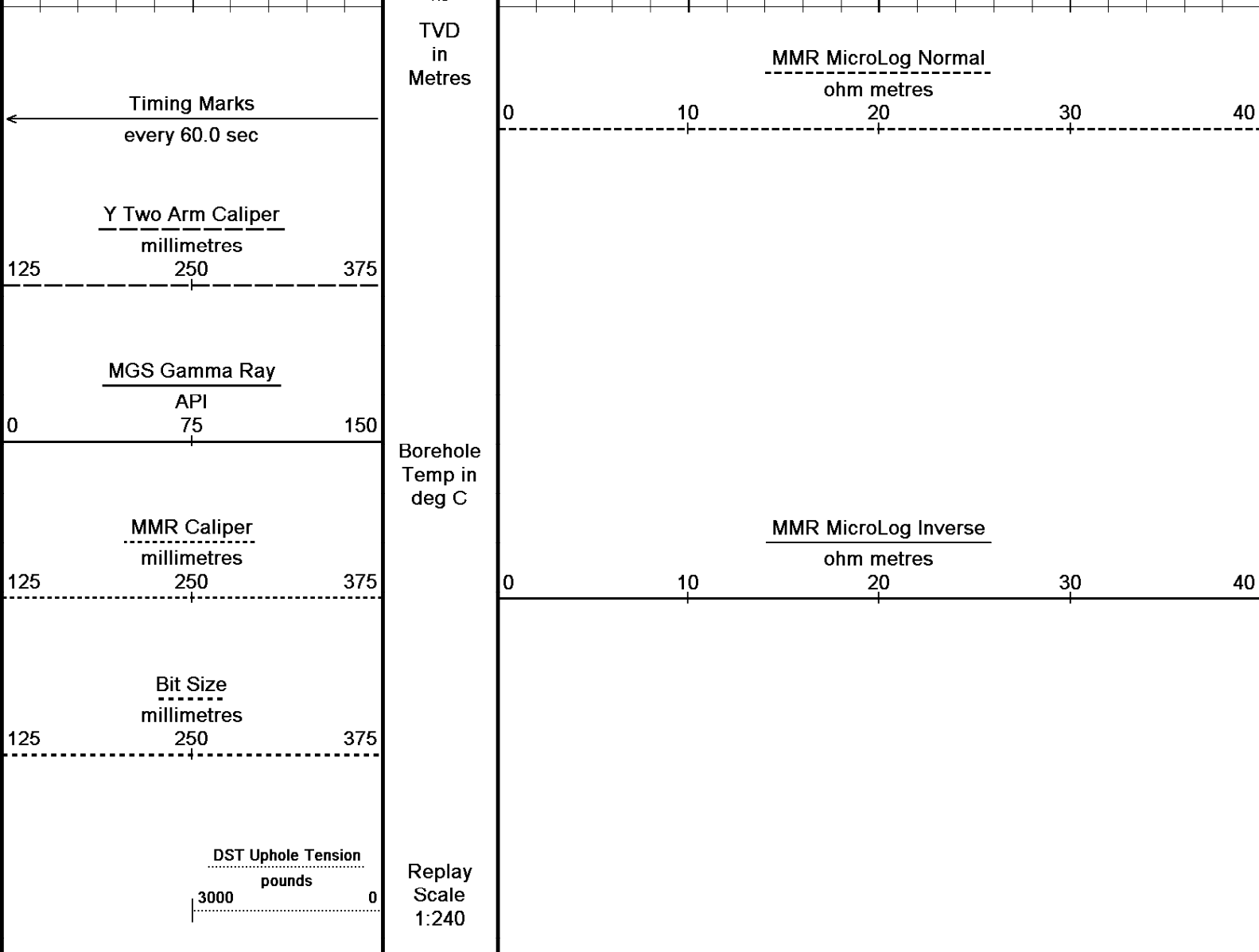
1420  
TVD

1430  
TVD

1440  
TVD

1443  
TVD





Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\DOCUME~1\murraytm\LOCALS~1\Temp\Precision PreView\L40PARAQUINTRPT2.dta  
 System Versions: Logged with 7.01.0195 Plotted with 7.02.0256

Plotted on 25-JAN-2007 03:17  
 Recorded on 24-JAN-2007 18:33

↑

REPEAT SECTION

↑

| TVD TABLE                      |                      |                        |                      |                        |                      |
|--------------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| Last Edited: 23-JAN-2007 22:19 |                      |                        |                      |                        |                      |
| Logged Depth<br>metres         | True Depth<br>metres | Logged Depth<br>metres | True Depth<br>metres | Logged Depth<br>metres | True Depth<br>metres |
| 425.00                         | 425.00               | 675.34                 | 672.52               | 1079.75                | 1070.34              |
| 429.70                         | 429.70               | 694.15                 | 690.99               | 1089.14                | 1079.61              |
| 439.08                         | 439.08               | 712.95                 | 709.44               | 1098.88                | 1089.23              |
| 448.47                         | 448.47               | 731.72                 | 727.88               | 1108.29                | 1098.52              |
| 458.20                         | 458.20               | 750.10                 | 745.96               | 1117.68                | 1107.79              |
| 467.57                         | 467.56               | 769.28                 | 764.83               | 1127.08                | 1117.07              |
| 476.97                         | 476.94               | 788.03                 | 783.28               | 1136.49                | 1126.35              |
| 486.36                         | 486.29               | 806.79                 | 801.74               | 1145.90                | 1135.63              |
| 495.76                         | 495.64               | 825.57                 | 820.17               | 1155.29                | 1144.88              |
| 505.49                         | 505.29               | 844.70                 | 838.93               | 1164.71                | 1154.14              |
| 514.87                         | 514.59               | 863.50                 | 857.40               | 1174.14                | 1163.40              |
| 524.28                         | 523.90               | 882.31                 | 875.92               | 1183.53                | 1172.61              |
| 533.68                         | 533.19               | 901.12                 | 894.46               | 1192.93                | 1181.82              |
| 543.08                         | 542.46               | 910.54                 | 903.74               | 1202.33                | 1191.03              |
| 553.19                         | 552.42               | 929.36                 | 922.28               | 1211.75                | 1200.26              |
| 562.58                         | 561.64               | 948.16                 | 940.79               | 1221.34                | 1209.63              |
| 572.00                         | 570.88               | 957.58                 | 950.08               | 1230.69                | 1218.77              |
| 581.39                         | 580.08               | 966.43                 | 958.80               | 1249.30                | 1236.96              |
| 590.76                         | 589.26               | 976.02                 | 968.25               | 1296.36                | 1283.07              |

|        |        |         |         |         |         |
|--------|--------|---------|---------|---------|---------|
| 600.16 | 598.49 | 985.75  | 977.84  | 1324.55 | 1310.74 |
| 609.55 | 607.71 | 995.17  | 987.12  | 1352.98 | 1338.66 |
| 618.95 | 616.96 | 1004.59 | 996.39  | 1381.18 | 1366.38 |
| 628.33 | 626.19 | 1013.98 | 1005.63 | 1409.41 | 1394.19 |
| 637.75 | 635.47 | 1032.78 | 1024.11 | 1437.00 | 1421.43 |
| 647.13 | 644.73 | 1051.58 | 1042.59 | 1453.00 | 1437.24 |
| 656.52 | 654.00 | 1070.37 | 1061.09 |         |         |

## BEFORE SURVEY CALIBRATION

C:\DOCUME~1\murraytm\LOCALS~1\Temp\Precision PreView\L40PARAQUINTRPT2.dta

### General Constants All 000

Last Edited on 23-JAN-2007,22:35

#### General Parameters

|                             |          |            |
|-----------------------------|----------|------------|
| Mud Resistivity             | 0.600    | ohm-metres |
| Mud Resistivity Temperature | 25.000   | degrees C  |
| Water Level                 | 0.000    | metres     |
| Density/Neutron Processing  | Wet Hole |            |

#### Hole/Annular Volume and Differential Caliper Parameters

|                                  |                   |    |
|----------------------------------|-------------------|----|
| HVOL Caliper 1                   | Density Caliper   |    |
| HVOL Caliper 2                   | Y Two Arm Caliper |    |
| Annular Volume Diameter          | 139.700           | mm |
| Caliper for Differential Caliper | Density Caliper   |    |

#### Rwa Parameters

|                  |                       |  |
|------------------|-----------------------|--|
| Porosity used    | Base Density Porosity |  |
| Resistivity used | Deep Induction        |  |
| RWA Constant A   | 0.610                 |  |
| RWA Constant M   | 2.150                 |  |

### Gamma Calibration MCG 131

Field Calibration on 8-JAN-2007,20:07

|                    | Measured | Calibrated (API) |
|--------------------|----------|------------------|
| Background         | 46       | 30               |
| Calibrator (Gross) | 1264     | 824              |
| Calibrator (Net)   | 1219     | 794              |

### Gamma Constants MCG 131

Last Edited on 24-JAN-2007,19:31

|                               |                 |       |
|-------------------------------|-----------------|-------|
| Gamma Calibrator Number       | GRC 095         |       |
| Mud Density                   | 1110.00         | kg/m3 |
| Caliper Source for Processing | Density Caliper |       |
| Tool Position                 | Centred         |       |
| Concentration of KCl          | 0.00            | kppm  |

### SP Calibration MCG 131

Field Calibration on 18-JAN-2007 08:47

|             | Measured | Calibrated (mV) |
|-------------|----------|-----------------|
| Reference 1 | 100.6    | 100.0           |
| Reference 2 | -100.0   | -100.0          |

### High Resolution Temperature Calibration MCG 131

Field Calibration on 15-DEC-2006,15:05

|       | Measured | Calibrated(Deg C) |
|-------|----------|-------------------|
| Lower | 1.00     | 1.00              |
| Upper | 10.00    | 10.00             |

### High Resolution Temperature Constants MCG 131

|                   |    |
|-------------------|----|
| Pre-filter Length | 11 |
|-------------------|----|

### FE Calibration MFE 038

Base Calibration on 4-DEC-2006 15:24

Field Check on 23-JAN-2007,22:36

#### Base Calibration

|             | Measured | Calibrated (ohm-m) |
|-------------|----------|--------------------|
| Reference 1 | 0.0      | 0.0                |
| Reference 2 | 974.1    | 126.8              |
| Base Check  |          | 278.0              |

## FE Constants MFE 038

Last Edited on 15-DEC-2006,13:39

|                                  |                          |             |
|----------------------------------|--------------------------|-------------|
| Caliper Source for FE correction | Density Caliper          |             |
| Rm Source for FE correction      | Temperature Corr         |             |
| Temp. for Rm Corr.               | MCG External Temperature |             |
| Stand-off                        | Centred                  | millimetres |

## Caliper Calibration MTC 037

 Base Calibration on 11-JAN-2007 22:22  
 Field Calibration on 22-JAN-2007,06:17

| Base Calibration |          |                      |
|------------------|----------|----------------------|
| Reading No       | Measured | Calibrator Size (mm) |
| 1                | 15375    | 110.00               |
| 2                | 18236    | 162.00               |
| 3                | 21038    | 212.00               |
| 4                | 23830    | 262.00               |
| 5                | 26651    | 311.00               |
| 6                | N/A      | N/A                  |

| Field Calibration | Measured Caliper (mm) | Actual Caliper (mm) |
|-------------------|-----------------------|---------------------|
|                   | 167.00                | 166.00              |

## Gamma Calibration MGS 029

Field Calibration on 18-JAN-2007,10:05

|                    | Measured | Calibrated (API) |
|--------------------|----------|------------------|
| Background         | 58       | 38               |
| Calibrator (Gross) | 1286     | 832              |
| Calibrator (Net)   | 1228     | 794              |

## Gamma Constants MGS 029

Last Edited on 24-JAN-2007,03:16

|                               |                 |       |
|-------------------------------|-----------------|-------|
| Gamma Calibrator Number       | GRCC095         |       |
| Mud Density                   | 1110.00         | kg/m3 |
| Caliper Source for Processing | Density Caliper |       |
| Tool Position                 | Centred         |       |
| Concentration of KCl          | 0.00            | kppm  |

## SP Calibration MGS 029

Field Calibration on 7-DEC-2006,17:01

|             | Measured | Calibrated (mV) |
|-------------|----------|-----------------|
| Reference 1 | 100.0    | 100.0           |
| Reference 2 | -100.0   | -100.0          |

## High Resolution Temperature Calibration MGS 029

Field Calibration on 7-DEC-2006,17:01

|       | Measured | Calibrated(Deg C) |
|-------|----------|-------------------|
| Lower | 1.00     | 1.00              |
| Upper | 5.00     | 5.00              |

## High Resolution Temperature Constants MGS 029

|                   |    |
|-------------------|----|
| Pre-filter Length | 11 |
|-------------------|----|

## Micro Laterolog Constants MMR 031

|                          |        |        |
|--------------------------|--------|--------|
| Micro Laterolog K Factor | 0.0128 |        |
| Standoff Offset          | 0.0000 | inches |

## Borehole Correction Constants

|                            |                |        |
|----------------------------|----------------|--------|
| Mud Cake Source            | Constant Value |        |
| Mud Cake Thickness         | 0.4000         | inches |
| Mud Cake Thickness Caliper | 0              |        |
| Mud Cake Resistivity       | 0.1500         | ohm-m  |

## Caliper Calibration MMR 031

 Base Calibration on 25-NOV-2006 12:45  
 Field Calibration on 6-JAN-2007,05:52

| Base Calibration |          |                      |
|------------------|----------|----------------------|
| Reading No       | Measured | Calibrator Size (mm) |
| 1                | 14823    | 162.00               |
| 2                | 18001    | 212.00               |
| 3                | 21431    | 262.00               |
| 4                | 25325    | 311.00               |
| 5                |          |                      |

|                                                    |                                 |                                                                           |
|----------------------------------------------------|---------------------------------|---------------------------------------------------------------------------|
| 3                                                  | 0                               | 0.00                                                                      |
| 6                                                  | N/A                             | N/A                                                                       |
| Field Calibration                                  | Measured Caliper (mm)<br>200.60 | Actual Caliper (mm)<br>205.70                                             |
| Micro Normal and Micro Inverse Calibration MMR 031 |                                 | Base Calibration on 25-NOV-2006,12:58<br>Field Check on 23-JAN-2007 22:10 |
| Base Calibration                                   |                                 |                                                                           |
| Channel                                            | Resistor 1                      | Measured<br>Resistor 2                                                    |
| Micro Normal                                       | 9.9                             | 49.1                                                                      |
| Micro Inverse                                      | 9.8                             | 49.8                                                                      |
| Channel                                            | Resistor 1                      | Calibrated (ohm-m)<br>Resistor 2                                          |
| Micro Normal                                       | 5.1                             | 25.6                                                                      |
| Micro Inverse                                      | 3.4                             | 16.9                                                                      |
| Channel                                            | Base Check (ohm-m)              | Field Check (ohm-m)                                                       |
| Micro Normal                                       | 94.7                            | 94.7                                                                      |
| Micro Inverse                                      | 61.5                            | 61.5                                                                      |
| Micro Normal and Micro Inverse Constants MMR 031   |                                 | Last Edited on 25-NOV-2006,14:14                                          |
| Micro Normal K Factor                              | 0.5110                          |                                                                           |
| Micro Inverse K Factor                             | 0.3380                          |                                                                           |
| Standoff Offset                                    | 0.0000                          | millimetres                                                               |
| Neutron Calibration MDN 016                        |                                 | Base Calibration on 11-JAN-2007 20:47<br>Field Check on 23-JAN-2007 22:05 |
| Base Calibration                                   |                                 |                                                                           |
|                                                    | Measured                        | Calibrated (cps)                                                          |
|                                                    | Near                            | Far                                                                       |
|                                                    | 3219                            | 98                                                                        |
| Ratio                                              | 32.703                          | 33.764                                                                    |
| Field Calibrator at Base                           |                                 | Calibrated (cps)                                                          |
|                                                    |                                 | 2486                                                                      |
| Ratio                                              |                                 | 0.681                                                                     |
| Field Check                                        |                                 | Calibrated (cps)                                                          |
|                                                    |                                 | 2511                                                                      |
| Ratio                                              |                                 | 0.657                                                                     |
| Neutron Constants MDN 016                          |                                 | Last Edited on 15-JAN-2007,07:16                                          |
| Neutron Source Id                                  | 277                             |                                                                           |
| Neutron Jig Number                                 | N636                            |                                                                           |
| Epithermal Neutron                                 | No                              |                                                                           |
| Caliper Source for Processing                      | Density Caliper                 |                                                                           |
| Stand-off                                          | 0.00                            | mm                                                                        |
| Mud Density                                        | 1000.00                         | kg/m3                                                                     |
| Limestone Sigma                                    | 7.10                            | cu                                                                        |
| Sandstone Sigma                                    | 4.26                            | cu                                                                        |
| Dolomite Sigma                                     | 4.70                            | cu                                                                        |
| Formation Pressure Source                          | Constant Value                  |                                                                           |
| Formation Pressure                                 | 0.00                            | kPa                                                                       |
| Temperature Source                                 | Constant Value                  |                                                                           |
| Temperature                                        | 20.00                           | degrees C                                                                 |
| Mud Salinity                                       | 0.00                            | kppm                                                                      |
| Formation Fluid Salinity Source                    | Constant Value                  |                                                                           |
| Formation Fluid Salinity                           | 0.00                            | kppm                                                                      |
| Barite Mud Correction                              | Not Applied                     |                                                                           |
| Photo Density Calibration MPD 093                  |                                 | Base Calibration on 19-JAN-2007,19:16<br>Field Check on 23-JAN-2007 22:00 |
| Density Calibration                                |                                 |                                                                           |
| Base Calibration                                   | Measured                        | Calibrated (sdu)                                                          |
|                                                    | Near                            | Far                                                                       |
| Reference 1                                        | 71274                           | 37606                                                                     |
| Reference 2                                        | 29326                           | 2540                                                                      |
| Field Check at Base                                |                                 |                                                                           |
|                                                    | 0.0                             | 0.0                                                                       |
| Field Check                                        |                                 |                                                                           |

|                     |       |          |       |            |
|---------------------|-------|----------|-------|------------|
| Field Check         | 741.6 | 865.3    |       |            |
| PE Calibration      |       |          |       |            |
| Base Calibration    |       | Measured |       | Calibrated |
|                     | WS    | WH       | Ratio | Ratio      |
| Background          | 133   | 653      |       |            |
| Reference 1         | 29377 | 71091    | 0.415 | 0.400      |
| Reference 2         | 7941  | 29220    | 0.273 | 0.272      |
| Field Check at Base |       |          |       |            |
|                     | 133.0 | 649.2    |       |            |
| Field Check         |       |          |       |            |
|                     | 134.6 | 655.5    |       |            |

|                                |                                  |       |  |
|--------------------------------|----------------------------------|-------|--|
| Density Constants MPD 093      | Last Edited on 24-JAN-2007,03:16 |       |  |
| Density Source Id              | 16151b                           |       |  |
| Nylon Calibrator Number        | 608                              |       |  |
| Aluminium/Fe Calibrator Number | 608                              |       |  |
| Density Shoe Profile           | 4 inch                           |       |  |
| Caliper Source for Processing  | Density Caliper                  |       |  |
| PE Correction to Density       | Not Applied                      |       |  |
| Mud Density                    | 1110.00                          | kg/m3 |  |
| Mud Density Z/A Correction     | 1.11                             |       |  |
| Mud Filtrate Density           | 1000.00                          | kg/m3 |  |
| Dry Hole Mud Filtrate Density  | 1000.00                          | kg/m3 |  |
| DNCT                           | 0.00                             | kg/m3 |  |
| CRCT                           | 0.00                             | kg/m3 |  |
| Matrix Density (kg/m3)         | Depth (m)                        |       |  |
| 2710.00                        |                                  |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |
| 0.00                           | 0.00                             |       |  |

|                             |                                                                                 |                      |  |
|-----------------------------|---------------------------------------------------------------------------------|----------------------|--|
| Caliper Calibration MPD 093 | Base Calibration on 11-JAN-2007 21:58<br>Field Calibration on 22-JAN-2007,06:17 |                      |  |
| Base Calibration            |                                                                                 |                      |  |
| Reading No                  | Measured                                                                        | Calibrator Size (mm) |  |
| 1                           | 15040                                                                           | 110.00               |  |
| 2                           | 23085                                                                           | 162.00               |  |
| 3                           | 31440                                                                           | 212.00               |  |
| 4                           | 40233                                                                           | 262.00               |  |
| 5                           | 49152                                                                           | 311.00               |  |
| 6                           | N/A                                                                             | N/A                  |  |
| Field Calibration           |                                                                                 |                      |  |
|                             | Measured Caliper (mm)                                                           | Actual Caliper (mm)  |  |
|                             | 166.00                                                                          | 165.00               |  |

|                           |                                  |                    |     |
|---------------------------|----------------------------------|--------------------|-----|
| Sonic Constants MSS 075   | Last Edited on 18-JAN-2007,10:05 |                    |     |
| Maximum Boundary Contrast | 328.08                           | micro-sec/m        |     |
| Fluid Transit Time        | 620.08                           | micro-sec/m        |     |
| Limestone Transit Time    | 155.84                           | micro-sec/m        |     |
| Sandstone Transit Time    | 182.09                           | micro-sec/m        |     |
| Dolomite Transit Time     | 142.72                           | micro-sec/m        |     |
| Sonic used for Porosities | 3-5' Compensated Sonic           |                    |     |
| Correction for Sonde Skew | Applied                          |                    |     |
| Cycle Stretch Algorithm   | Applied                          |                    |     |
| MN3FT                     | N/A                              | micro-sec          |     |
| MX3FT                     | N/A                              | micro-sec          |     |
| Fixed Gate Parameters     |                                  |                    |     |
| Start Time (micro-sec)    | End Time (micro-sec)             | Discriminator (mV) | N/A |
| N/A                       | N/A                              | N/A                |     |
| N/A                       | N/A                              | N/A                | N/A |

|     |     |     |     |
|-----|-----|-----|-----|
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

#### Down Hole Fixed Gate Parameters

|                             |        |           |
|-----------------------------|--------|-----------|
| Gate Start                  | N/A    | micro-sec |
| Gate Width                  | N/A    | micro-sec |
| Initial Discriminator Level | 0.0000 | mVolts    |

#### Full Waveform Parameters

|                                 |     |           |
|---------------------------------|-----|-----------|
| Use 3' Waveform to derive TR    | N/A |           |
| Use 4' Waveform to derive TR    | N/A |           |
| Use 5' Waveform to derive TR    | N/A |           |
| Use 6' Waveform to derive TR    | N/A |           |
| 3' Waveform Discriminator Level | N/A | mV        |
| 4' Waveform Discriminator Level | N/A | mV        |
| 5' Waveform Discriminator Level | N/A | mV        |
| 6' Waveform Discriminator Level | N/A | mV        |
| 3' Waveform Filter              | N/A |           |
| 4' Waveform Filter              | N/A |           |
| 5' Waveform Filter              | N/A |           |
| 6' Waveform Filter              | N/A |           |
| Semblance Level                 | N/A |           |
| Semblance Window Width          | N/A | micro-sec |
| Sonic 1 Despiker                | N/A | N/A       |
| Sonic 2 Despiker                | N/A | N/A       |

#### Induction Calibration MAI 092

Base Calibration on 19-JAN-2007 19:26

Field Check on 23-JAN-2007 22:08

#### Base Calibration

| Test Loop Calibration |  | Measured |       | Calibrated (mmho/m) |       |
|-----------------------|--|----------|-------|---------------------|-------|
| Channel               |  | Low      | High  | Low                 | High  |
| 1                     |  | 17.5     | 473.2 | 9.3                 | 966.2 |
| 2                     |  | 5.9      | 374.5 | 7.6                 | 821.4 |
| 3                     |  | 2.8      | 255.0 | 5.2                 | 566.0 |
| 4                     |  | 1.3      | 130.5 | 2.6                 | 279.2 |
| Array Temperature     |  | 23.9     |       | Deg C               |       |

| Channel | Base Check (mmho/m) |        | Field Check (mmho/m) |        |
|---------|---------------------|--------|----------------------|--------|
|         | Low                 | High   | Low                  | High   |
| 1       | 10.3                | 3853.0 | 6.5                  | 3842.8 |
| 2       | 30.0                | 3605.8 | 28.7                 | 3599.3 |
| 3       | 29.7                | 3109.7 | 28.9                 | 3103.7 |
| 4       | 20.7                | 2116.7 | 20.6                 | 2113.5 |
| Deep    | 19.0                | 2017.4 | 18.7                 | 2013.4 |
| Medium  | 43.3                | 4115.3 | 42.3                 | 4107.3 |
| Shallow | 43.5                | 5343.3 | 41.2                 | 5333.9 |

|                   |      |       |       |
|-------------------|------|-------|-------|
| Array Temperature | 11.6 | -16.7 | Deg C |
|-------------------|------|-------|-------|

#### Induction Constants MAI 092

Last Edited on 20-JAN-2007,04:19

|                                   |                          |             |
|-----------------------------------|--------------------------|-------------|
| Induction Model                   | VECTAR                   |             |
| Caliper for Borehole Corr.        | Density Caliper          |             |
| Hole Size for Borehole Correction | N/A                      | millimetres |
| Stand-off                         | 25.40                    | millimetres |
| Number of Fins on Stand-off       | 5.0000                   |             |
| Stand-off Fin Width               | 12.7000                  | millimetres |
| Borehole Corr. Rm Source          | Temperature Corr         |             |
| Temp. for Rm Corr.                | MCG External Temperature |             |
| Squasher Start                    | 0.0020                   | mhos/metre  |

#### Borehole Normalisation

|      |        |      |        |
|------|--------|------|--------|
| DRM1 | 0.0000 | DRC1 | 0.0000 |
| DRM2 | 0.0000 | DRC2 | 0.0000 |
| MRM1 | 0.0000 | MRC1 | 0.0000 |
| MRM2 | 0.0000 | MRC2 | 0.0000 |
| SRM1 | 0.0000 | SRC1 | 0.0000 |
| SRM2 | 0.0000 | SRC2 | 0.0000 |

### Calibration Site Corrections

|           |      |             |
|-----------|------|-------------|
| Channel 1 | 0.00 | mmhos/metre |
| Channel 2 | 0.00 | mmhos/metre |
| Channel 3 | 0.00 | mmhos/metre |
| Channel 4 | 0.00 | mmhos/metre |

### Apparent Porosity and Water Saturation Constants

|                                      |        |         |
|--------------------------------------|--------|---------|
| Archie Constant (A)                  | 1.00   |         |
| Cementation Exponent (M)             | 2.00   |         |
| Saturation Exponent (N)              | 2.00   |         |
| Saturation of Water for Apor         | 100.00 | percent |
| Resistivity of Water for Apor and Sw | 0.05   | ohm-m   |
| Resistivity of Mud Filtrate for Sw   | 0.00   | ohm-m   |

### High Resolution Temperature Calibration MAI 092

Field Calibration on 13-SEP-2005,13:50

|       | Measured | Calibrated(Deg C) |
|-------|----------|-------------------|
| Lower | 1.00     | 1.00              |
| Upper | 50.00    | 50.00             |

### High Resolution Temperature Constants MAI 092

|                   |    |
|-------------------|----|
| Pre-filter Length | 11 |
|-------------------|----|

## DOWNHOLE EQUIPMENT

C:\DOCUME~1\murraytm\LOCALS~1\Temp\Precision PreView\L40PARAQUINTRPT2.dta

Compact Gamma  
MCG 131 Length: 2.65 m Weight: 63.9 lb

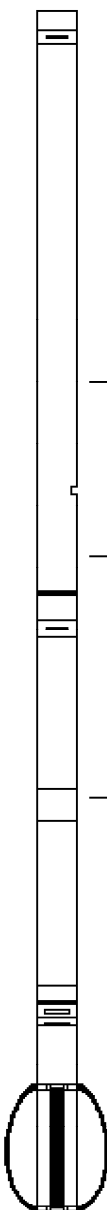
20.98 m GRGC - Gamma Ray

20.10 m CGXT - MCG External Temperature

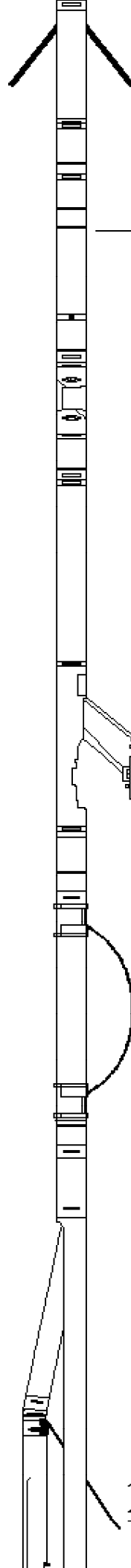
Compact Focussed Electric  
MFE 38 Length: 1.84 m Weight: 48.5 lb

18.98 m FEFE - Shallow FE

Compact Two Arm Caliper  
MTC 37 Length: 2.17 m Weight: 61.7 lb







16.53 m CLYC - Y Two Arm Caliper

Compact Short Gamma  
MGS 29 Length: 1.04 m Weight: 24.3 lb

15.66 m GRGM - MGS Gamma Ray

Compact InterSonde Crank  
ISC 151 Length: 0.71 m Weight: 24.3 lb

Compact Micro-Resistivity  
MMR 31 Length: 2.62 m Weight: 81.6 lb

12.10 m MINV - MMR MicroLog Inverse  
12.10 m MBTC - MMR Caliper  
12.10 m MNRL - MMR MicroLog Normal

Compact Neutron  
MDN 16 Length: 1.53 m Weight: 50.7 lb

10.64 m NPRL - Limestone Neutron Por.

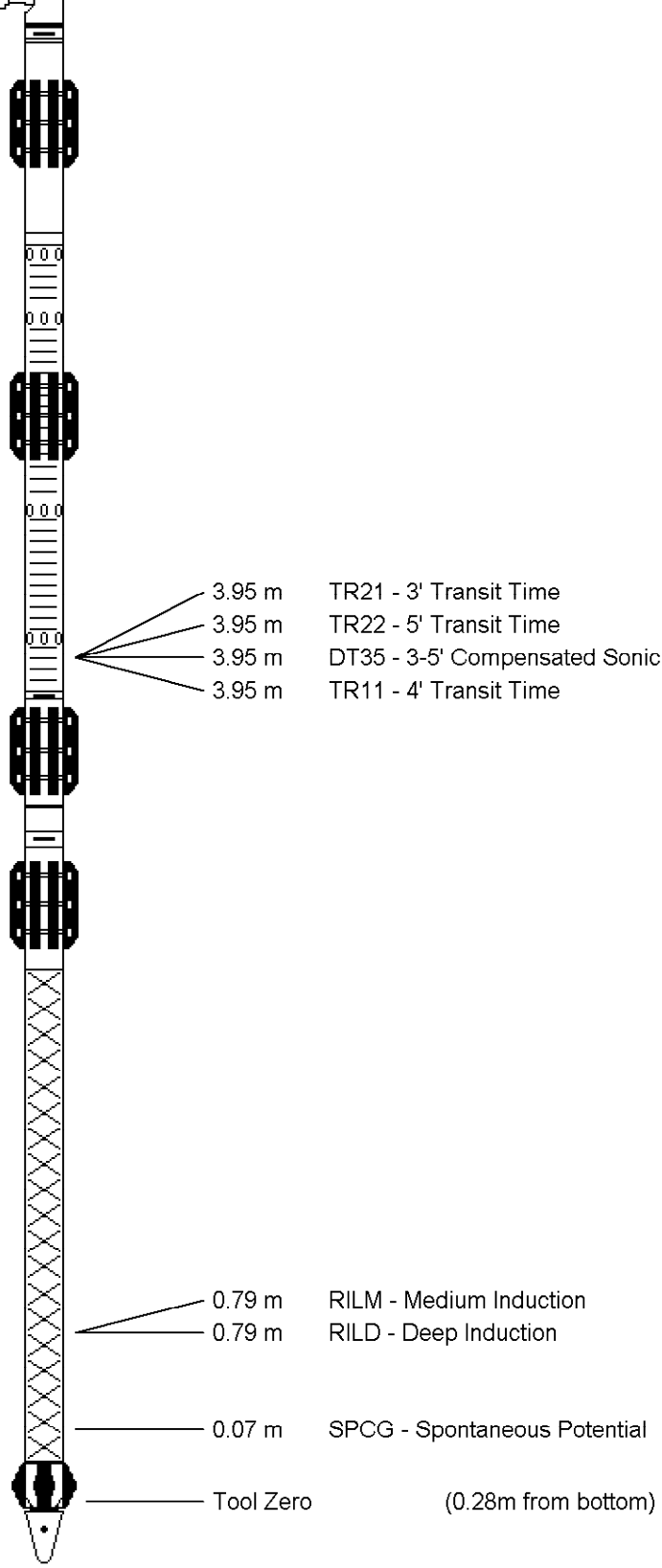
Compact Density/Caliper  
MPD 93 Length: 2.92 m Weight: 90.4 lb

8.06 m CLDC - Density Caliper  
7.85 m DCOR - Density Correction  
7.85 m DPRL - Limestone Density Por.  
7.83 m PDPE - PE

Compact Sonic  
MSS 75    Length: 3.82 m    Weight: 72.8 lb

Compact Induction  
MAI 92    Length: 3.29 m    Weight: 48.5 lb

Compact Hole Finder  
HFS 1    Length: 0.24 m    Weight: 2.2 lb  
Total    Length: 22.83 m    Weight: 568.8 lb



All measurements relative to tool zero.

|          |                          |
|----------|--------------------------|
| COMPANY  | PARAMOUNT RESOURCES LTD. |
| WELL     | PARA ET AL CAMERON L40   |
| FIELD    | CAMERON HILLS            |
| PROVINCE | NORTHWEST TERRITORIES    |
| COUNTRY  | CANADA                   |

|                         |        |        |               |         |        |
|-------------------------|--------|--------|---------------|---------|--------|
| Elevation Kelly Bushing | 690.10 | metres | First Reading | 1424.90 | metre  |
| Elevation Drill Floor   |        | metres | Depth Driller | 1437.20 | metres |
| Elevation Ground Level  | 684.70 | metres | Depth Logger  | 1437.50 | metres |



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