



**Weatherford**

**COMPOSITE  
LOG**

|                               |                                  |               |                                                       |
|-------------------------------|----------------------------------|---------------|-------------------------------------------------------|
| COMPANY                       | TAOS RESOURCES OPERATING COMPANY |               |                                                       |
| WELL                          | THOMSON 5-1                      |               |                                                       |
| FIELD                         | TISDALE GAS AREA                 |               |                                                       |
| PROVINCE/COUNTY               | COWLEY                           |               |                                                       |
| COUNTRY/STATE                 | U.S.A / KANSAS                   |               |                                                       |
| LOCATION                      | 1980' FNL & 660' FEL SE-NE       |               |                                                       |
| SEC 5                         | TWP 33S                          | RGE 5E        | Other Services                                        |
| API Number                    | 15-035-24592                     |               |                                                       |
| Permanent Datum GL, Elevation | 1237 feet                        |               | Elevations:<br>KB 1247.00<br>DF 1245.00<br>GL 1237.00 |
| Log Measured From             | KB                               |               |                                                       |
| Drilling Measured From        | KB                               |               |                                                       |
| Date                          | 9-JUN-2014                       |               |                                                       |
| Run Number                    | ONE                              |               |                                                       |
| Service Order                 | 5820-97517725                    |               |                                                       |
| Depth Driller                 | 3680.00                          |               | feet                                                  |
| Depth Logger                  | 3672.00                          |               | feet                                                  |
| First Reading                 | 3669.00                          |               | feet                                                  |
| Last Reading                  | 260.00                           |               | feet                                                  |
| Casing Driller                | 250.00                           |               | feet                                                  |
| Casing Logger                 | 260.00                           |               | feet                                                  |
| Bit Size                      | 7.875                            |               | inches                                                |
| Hole Fluid Type               | WBM                              |               |                                                       |
| Density / Viscosity           | 9.20 lb/USg                      | 45.00 sec/qt  |                                                       |
| PH / Fluid Loss               | 9.50                             | 8.80 ml/30Min |                                                       |
| Sample Source                 | MUD TANK                         |               |                                                       |
| Rm @ Measured Temp            | 1.70 @ 92.0                      |               | ohm-m                                                 |
| Rmf @ Measured Temp           | 1.36 @ 92.0                      |               | ohm-m                                                 |
| Rmc @ Measured Temp           | 2.04 @ 92.0                      |               | ohm-m                                                 |
| Source Rmf / Rmc              | CALC                             | CALC          |                                                       |
| Rm @ BHT                      | 1.33 @118.0                      |               | ohm-m                                                 |
| Time Since Circulation        | 4 HOURS                          |               |                                                       |
| Max Recorded Temp             | 118.00                           |               | deg F                                                 |
| Equipment / Base              | 13145                            | OKC           |                                                       |
| Recorded By                   | L. HEATON                        |               |                                                       |
| Witnessed By                  | DAVID GRIFFITH                   |               | M. WILKINS                                            |
| SALES                         | B. CONCHEWSKI*****               |               |                                                       |

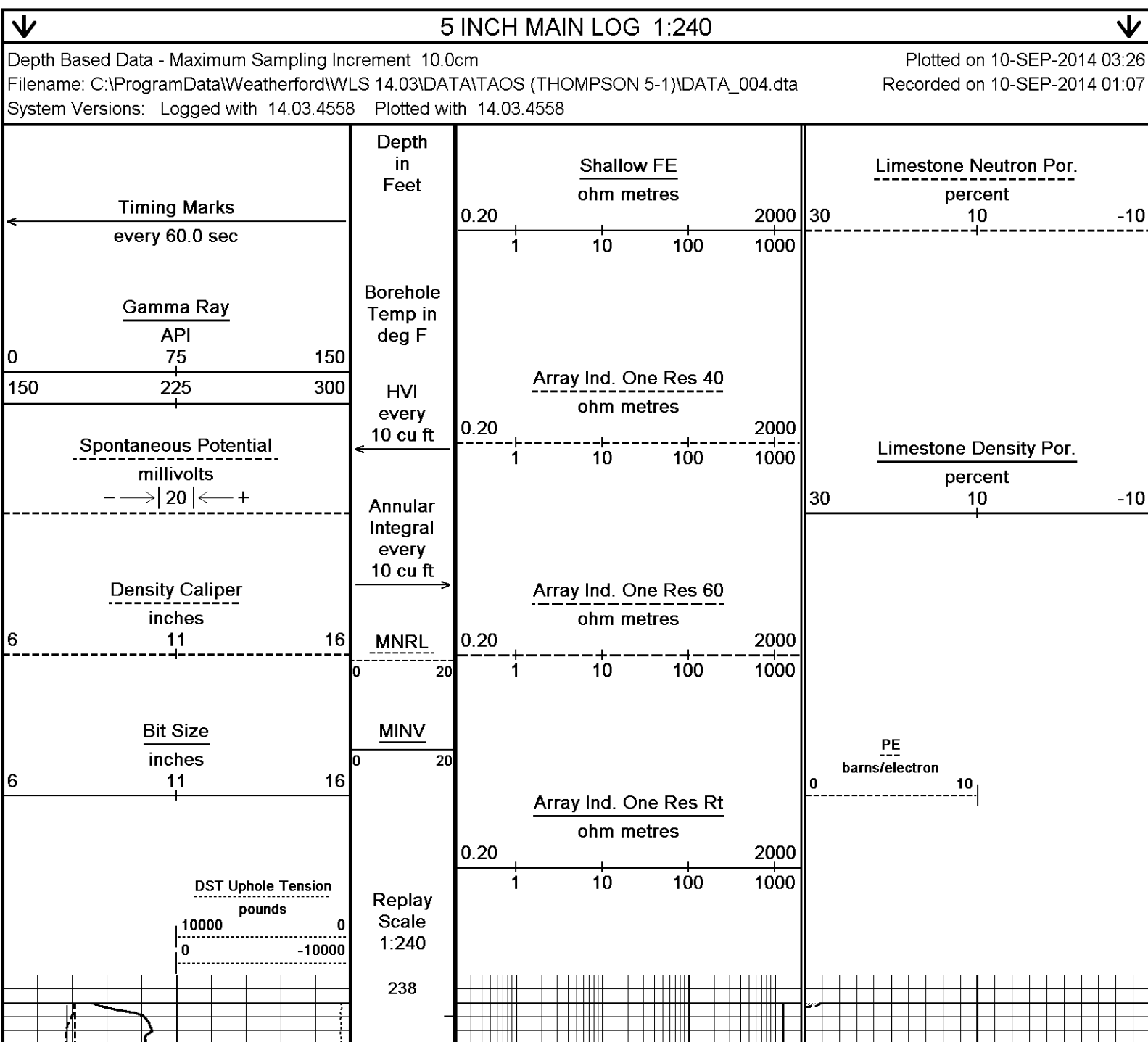
| BOREHOLE RECORD    |                |                    |                    | Last Edited: 09-SEP-2014 22:50 |
|--------------------|----------------|--------------------|--------------------|--------------------------------|
| Bit Size<br>inches |                | Depth From<br>feet |                    | Depth To<br>feet               |
| 7.875              |                | 250.00             |                    | 3590.00                        |
| CASING RECORD      |                |                    |                    |                                |
| Type               | Size<br>inches | Depth From<br>feet | Shoe Depth<br>feet | Weight<br>pounds/ft            |
| SURFACE            | 8.625          | 0.00               | 250.00             | 3680.00                        |

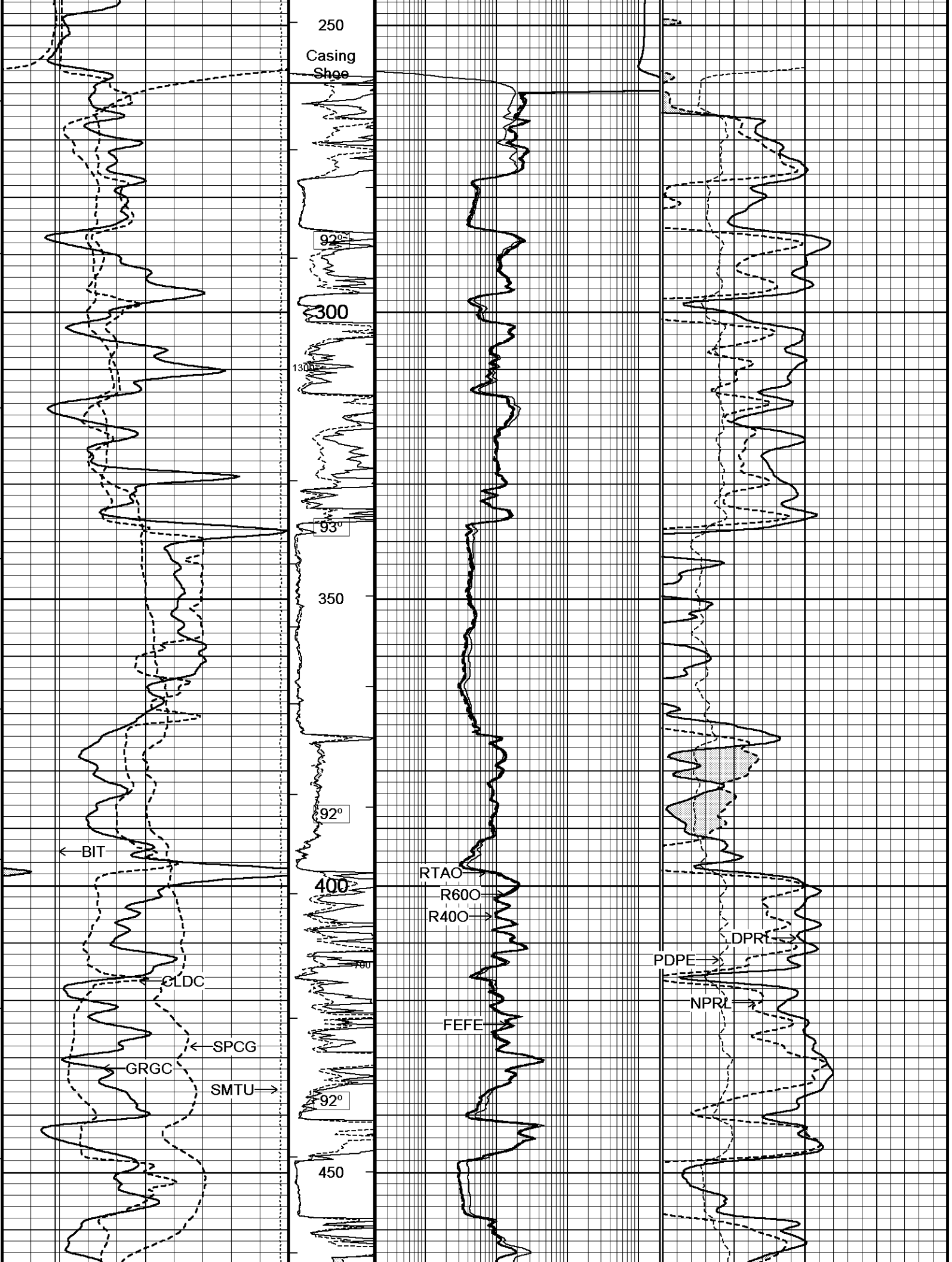
| REMARKS                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOOLS RAN: MCG, SGS, MMR, MDN, MPD, MFE, MSS, MAI RAN IN COMBINATION                                                                                                                                |
| HARDWARE:<br>MAI: TWO 0.5 INCH STANDOFFS USED.<br>MFE: ONE 0.5 INCH STANDOFF USED.<br>MDN: DUAL NEUTRON BOW SPRINGS USED.<br>MPD: 8 INCH PROFILE PLATE USED.<br>MSS: THREE 0.5 INCH STANDOFFS USED. |
| 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.<br>ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.                                                                                     |
| TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 1330 CU.FT.<br>ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING =780CU.FT.                                               |
| FIELD TICKET NUMBER: 5820-97517725                                                                                                                                                                  |
| RIG: VAI #3                                                                                                                                                                                         |

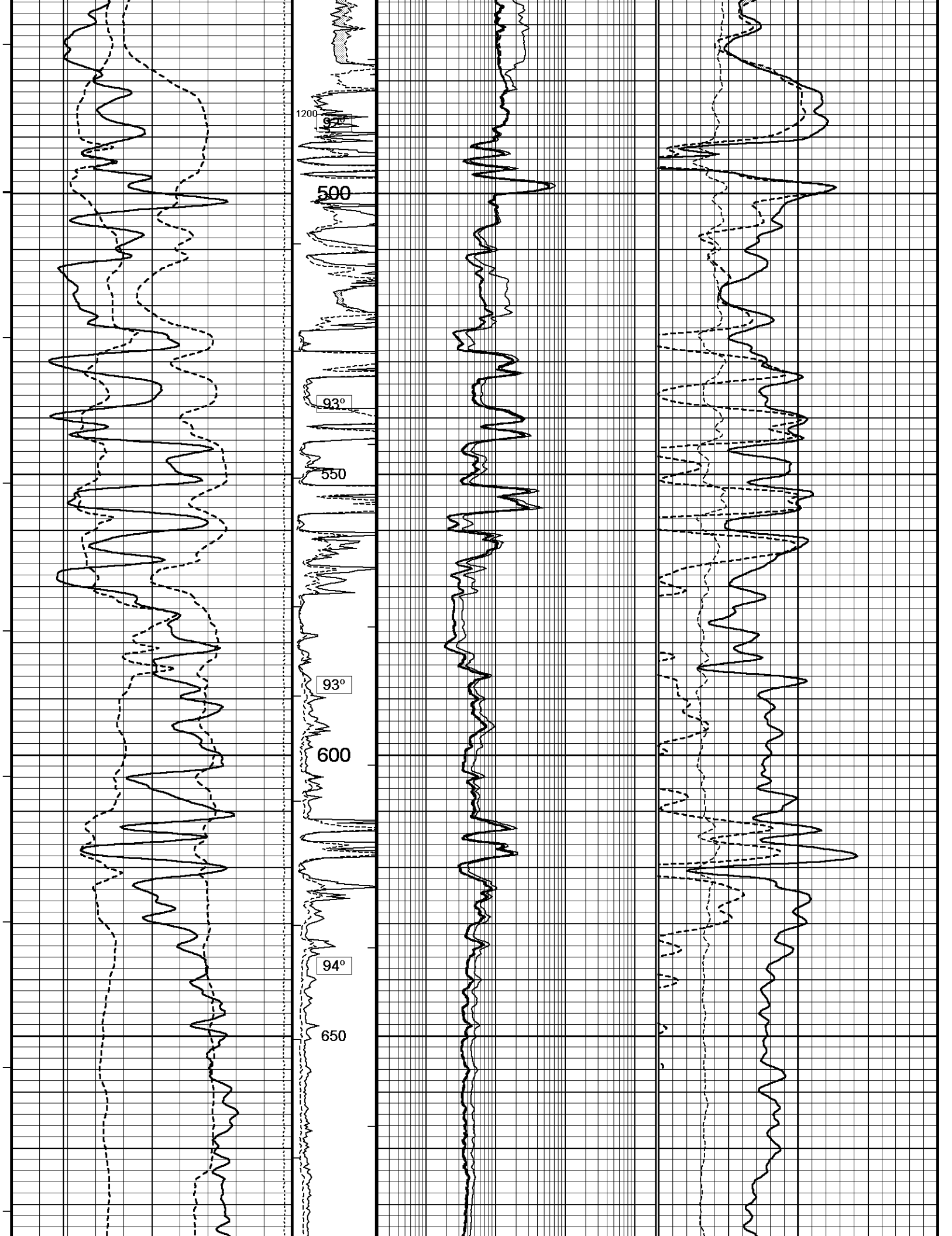
OPERATOR(S): GARRY NANNEY

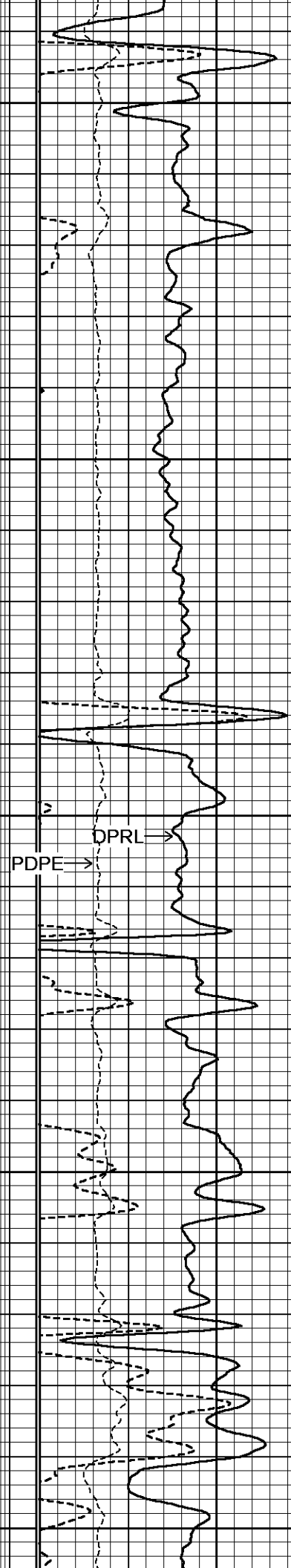
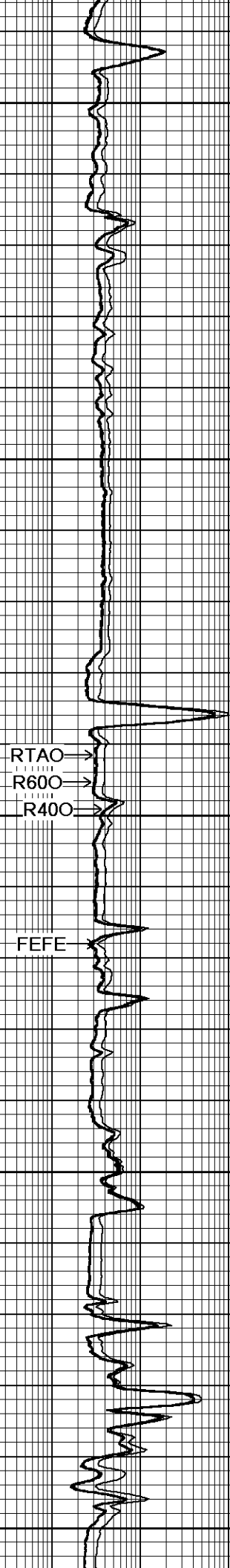
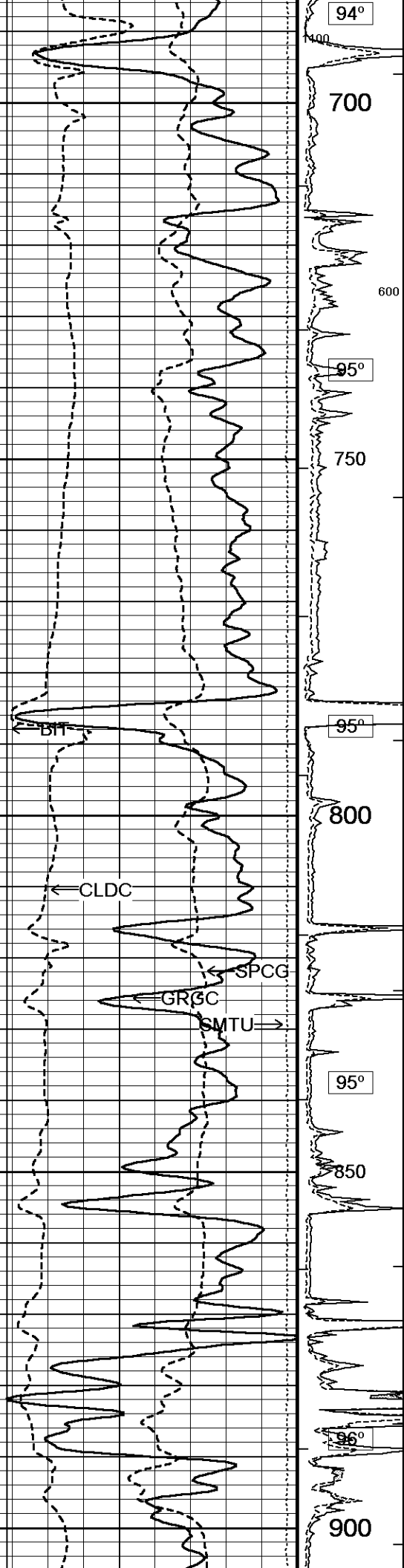
\*HOLE WASHOUTS AND RUGOSITY WILL AFFECT LOG QUALITY AND REPEATABILITY.\*

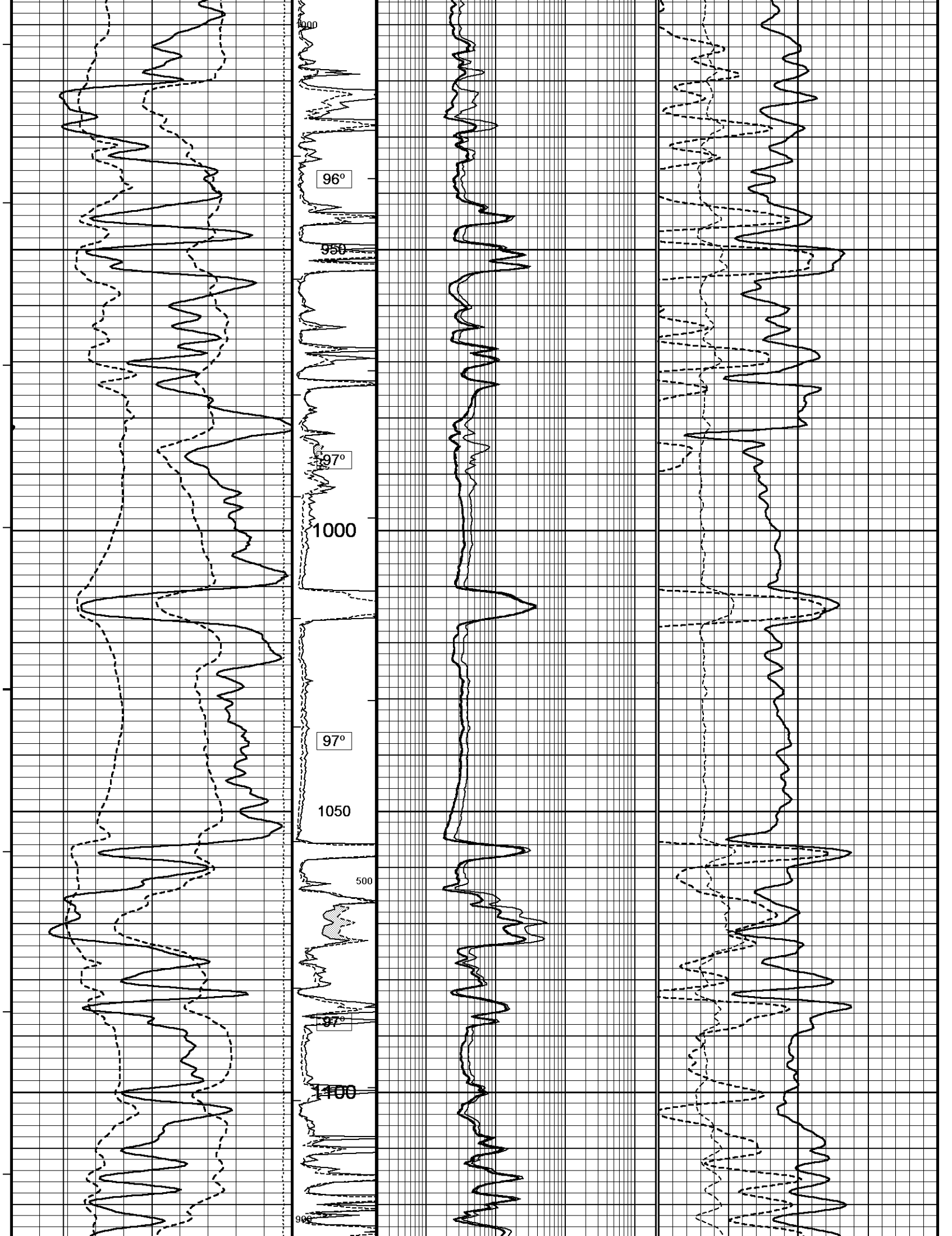
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

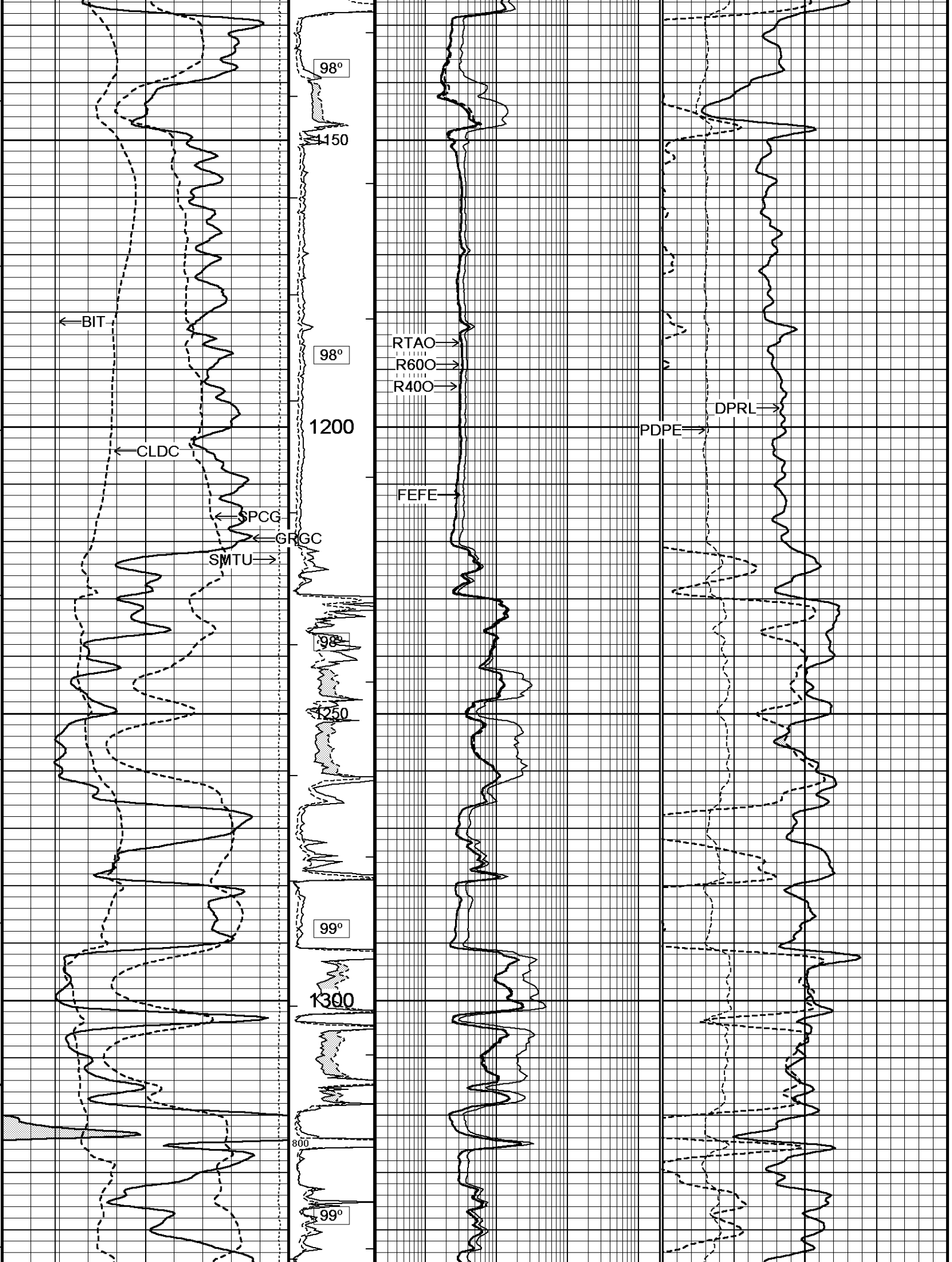


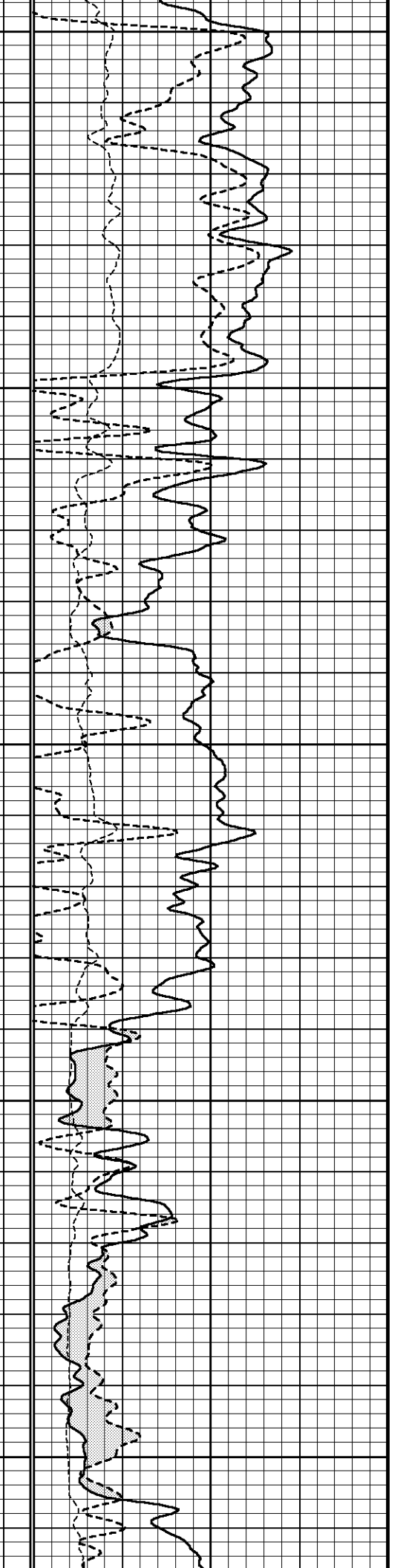
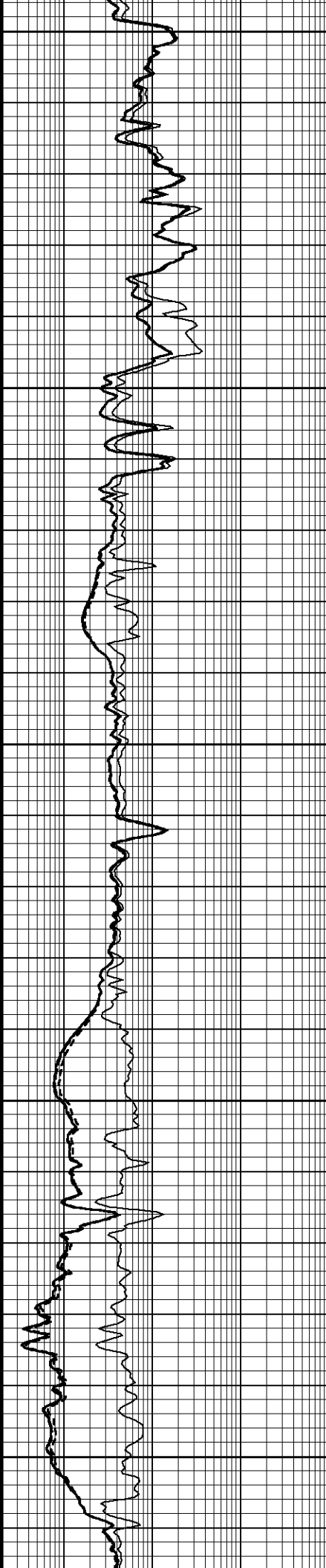
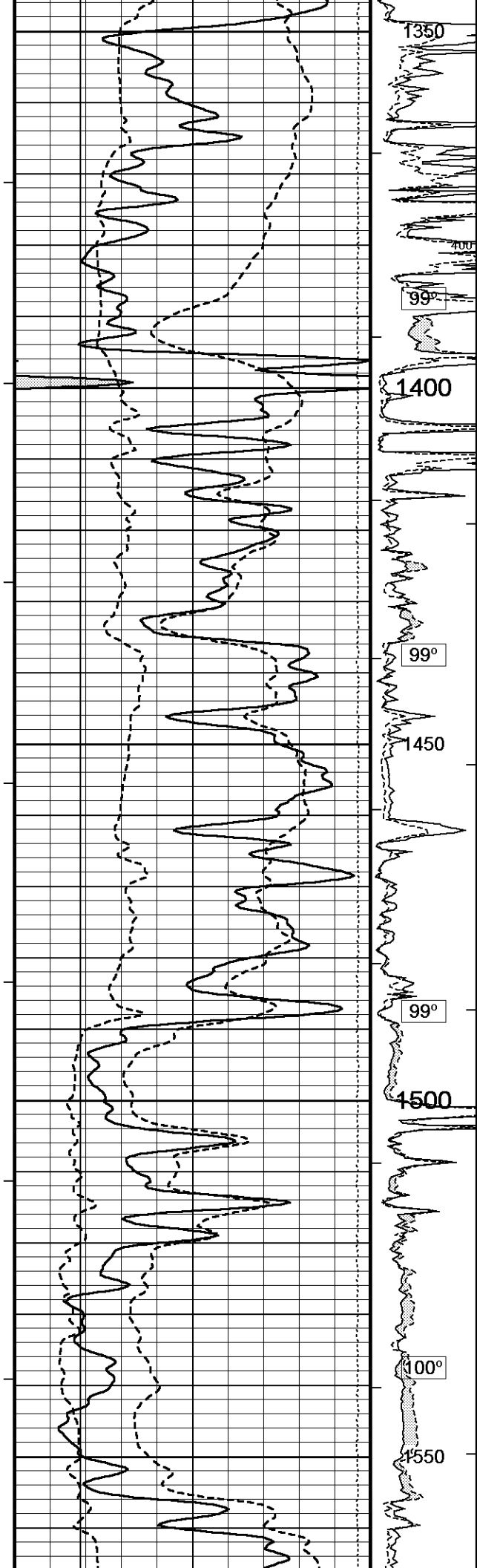




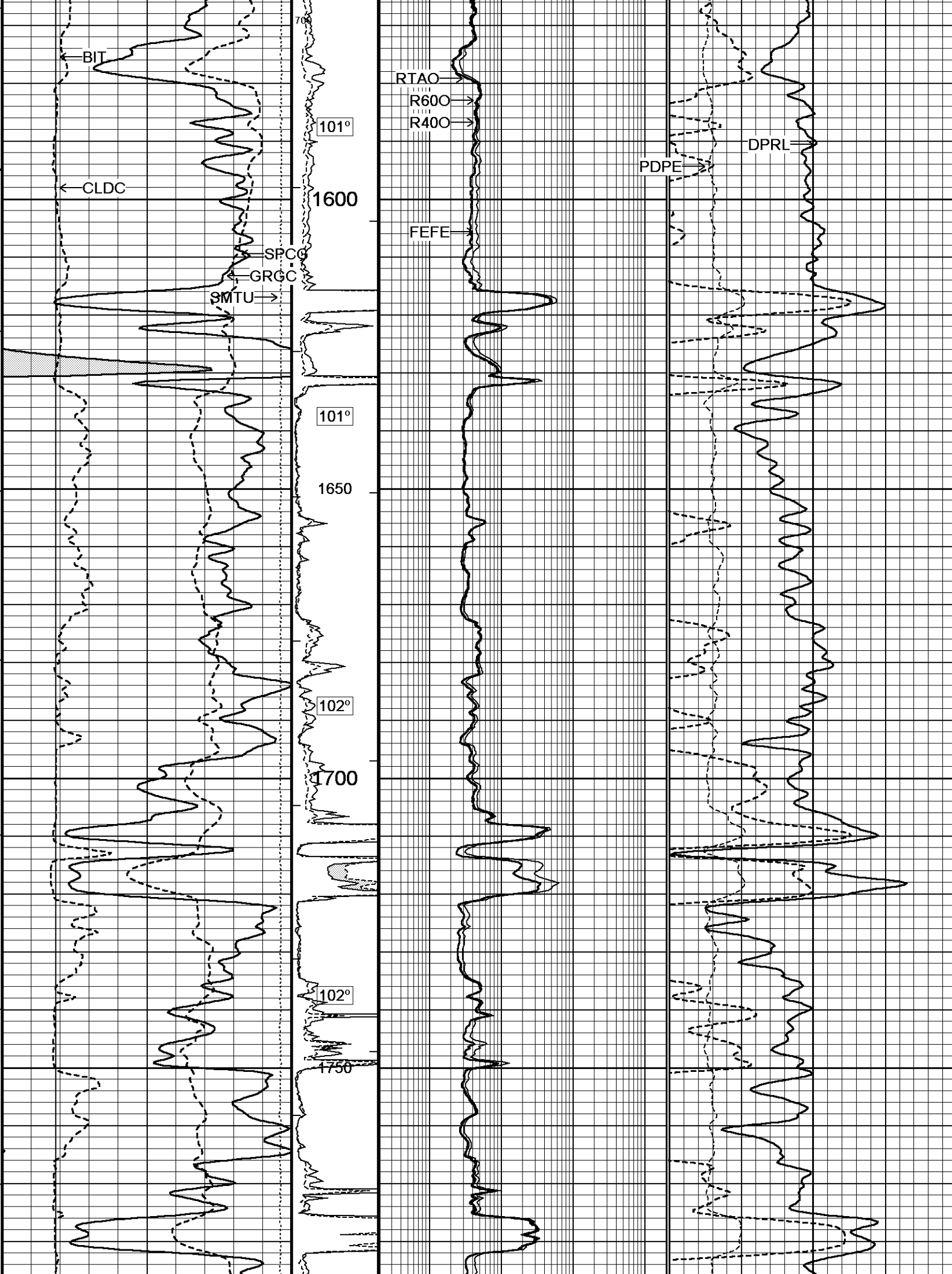


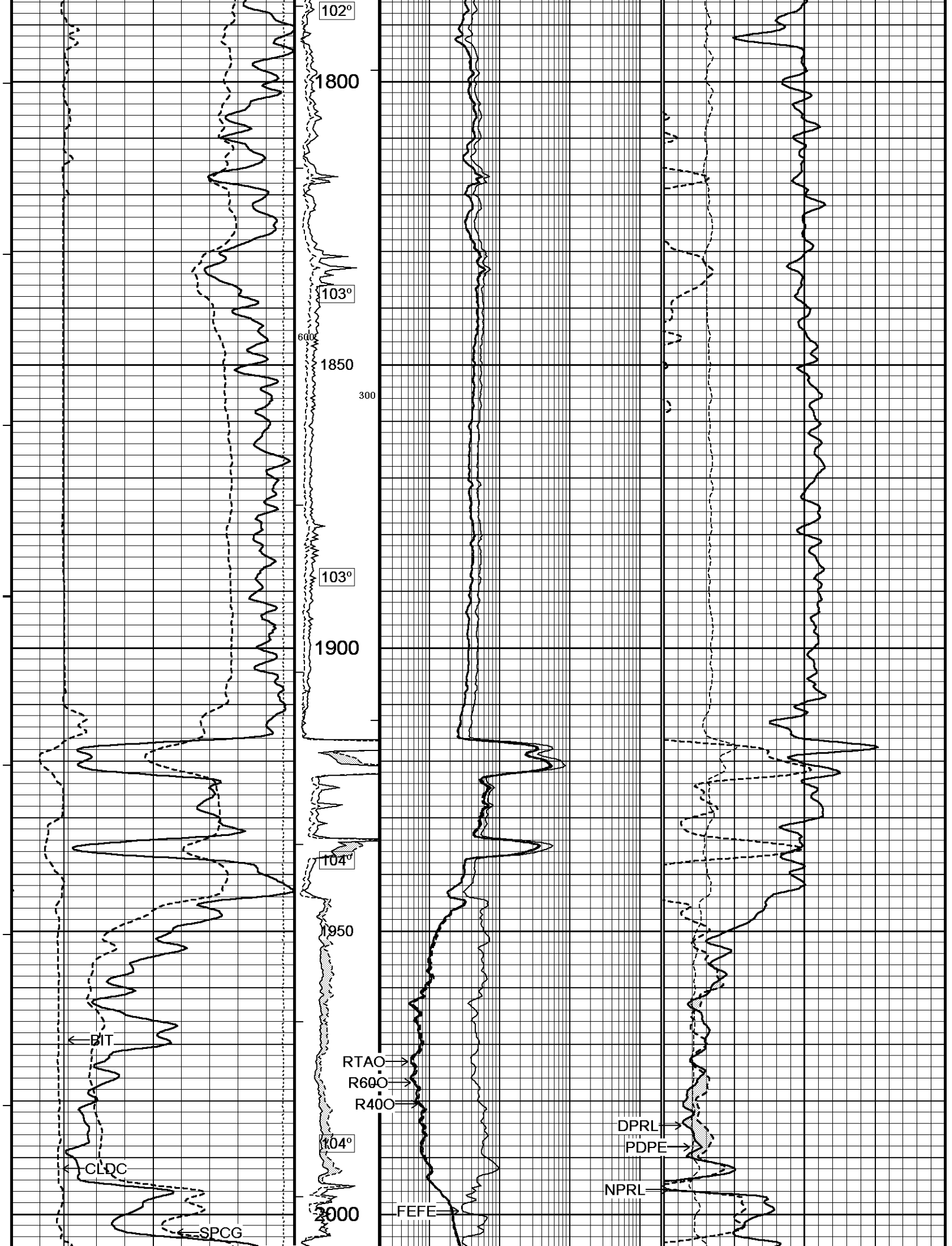


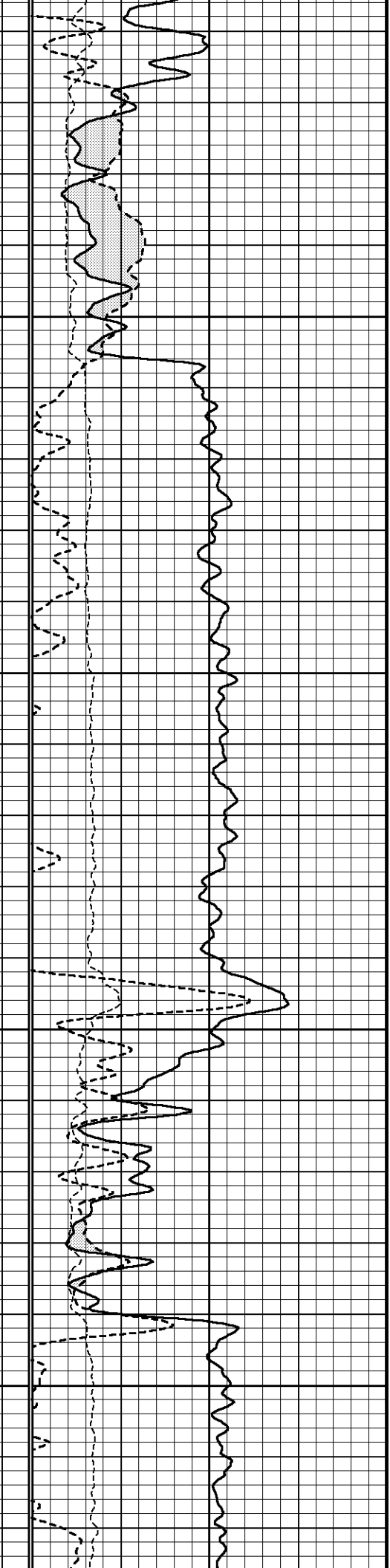
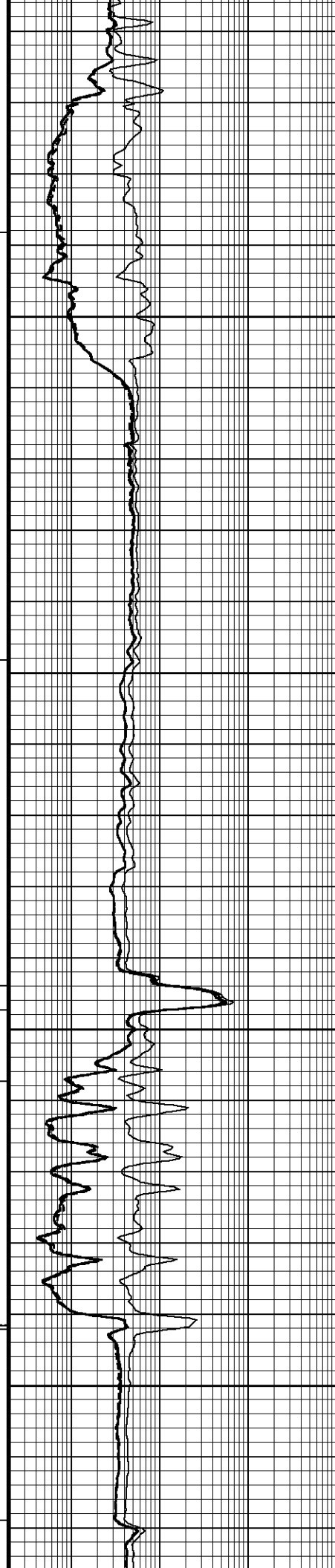
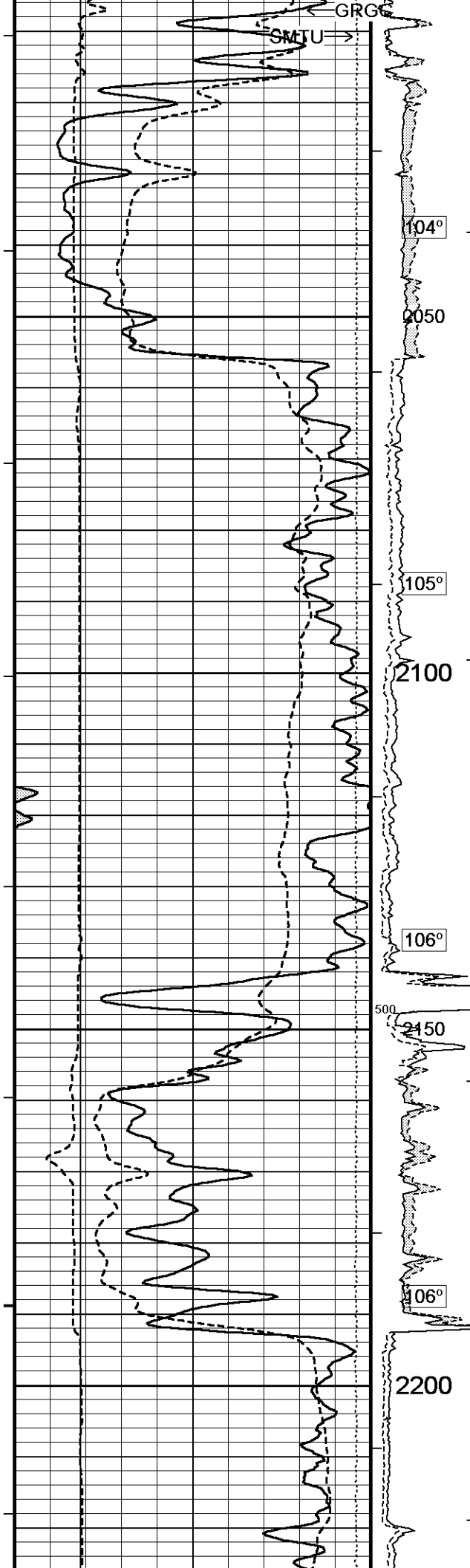


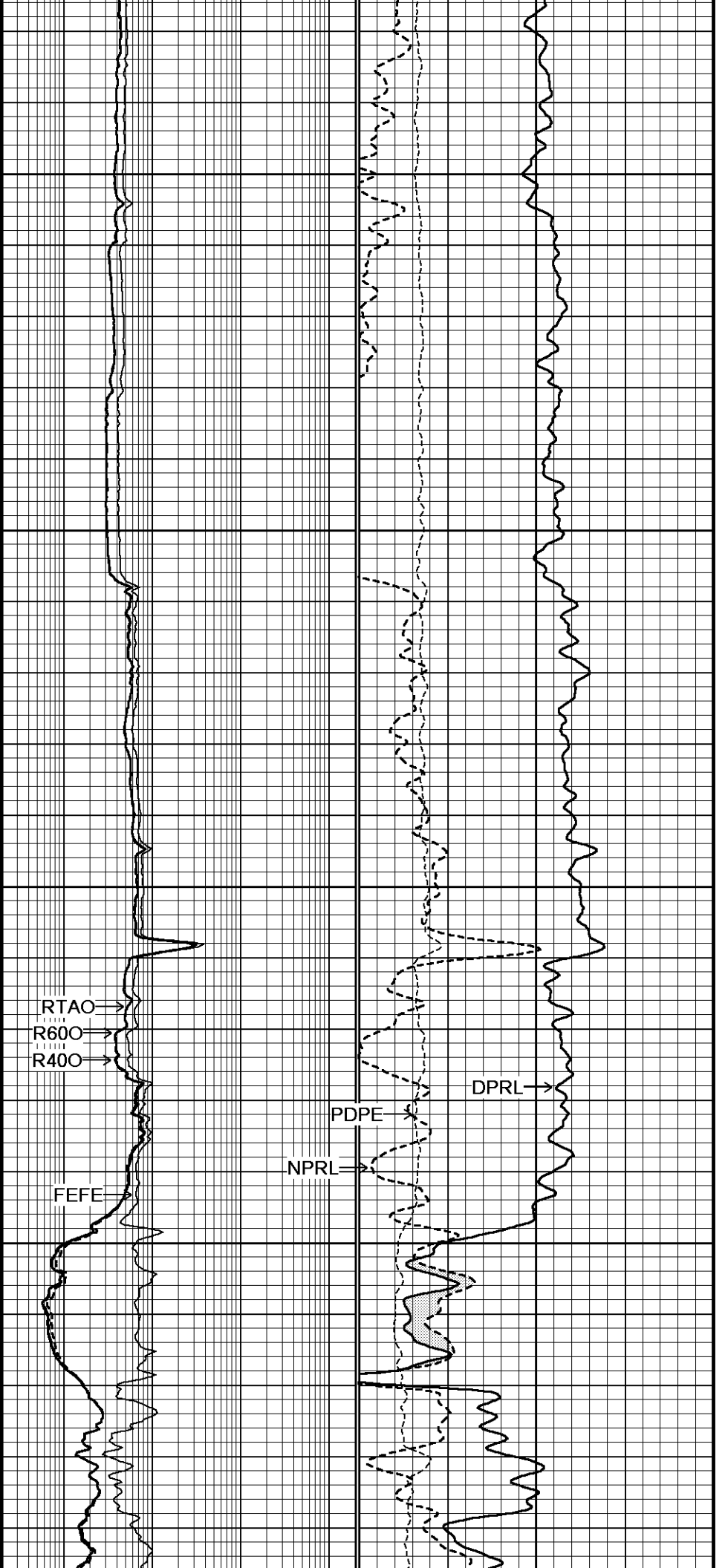
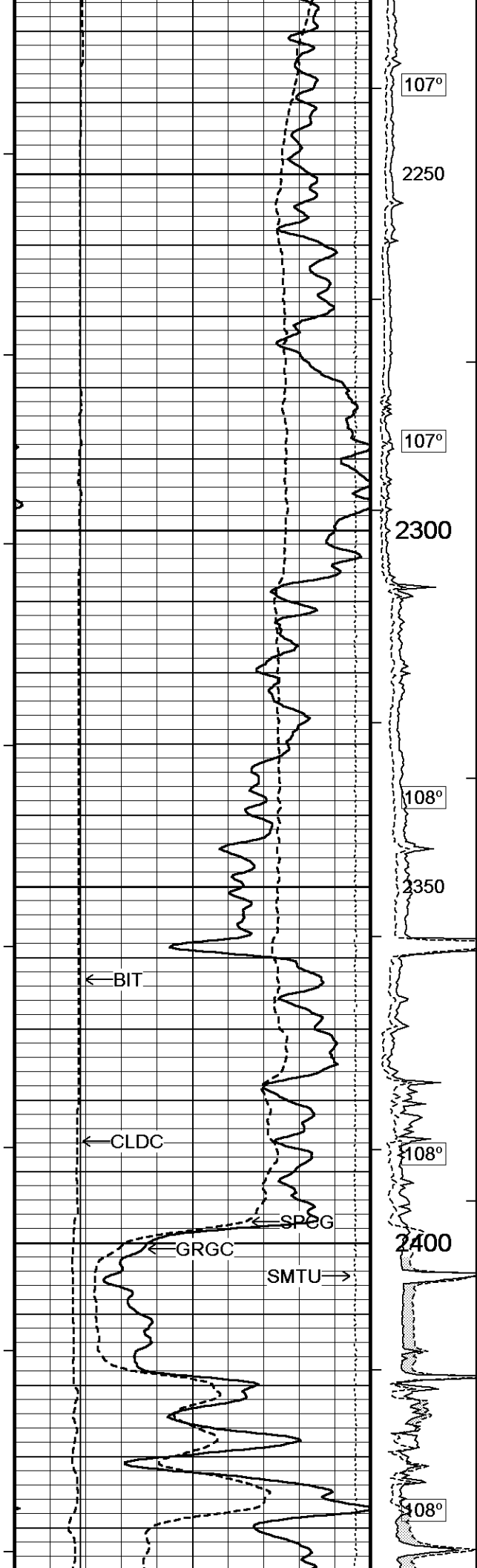


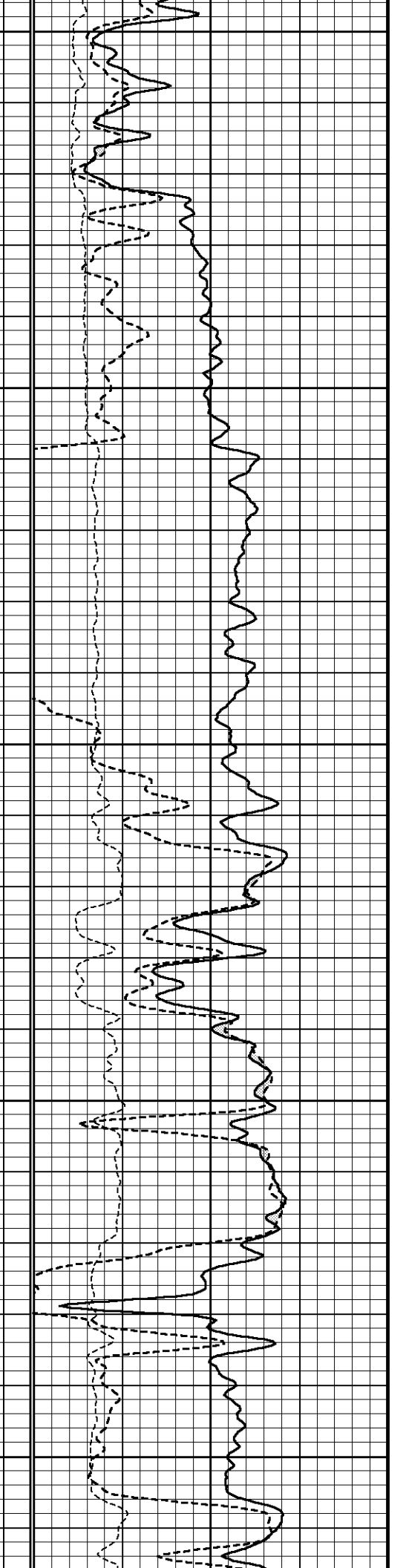
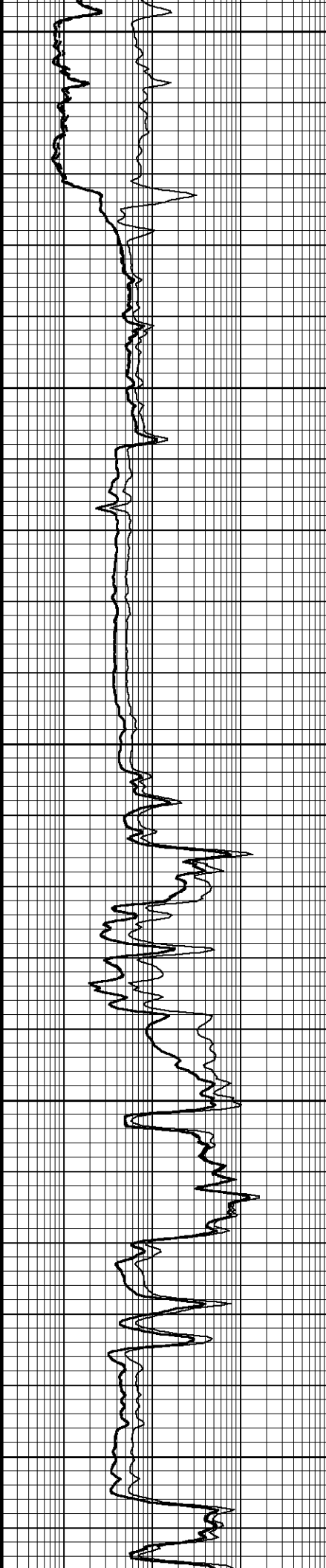
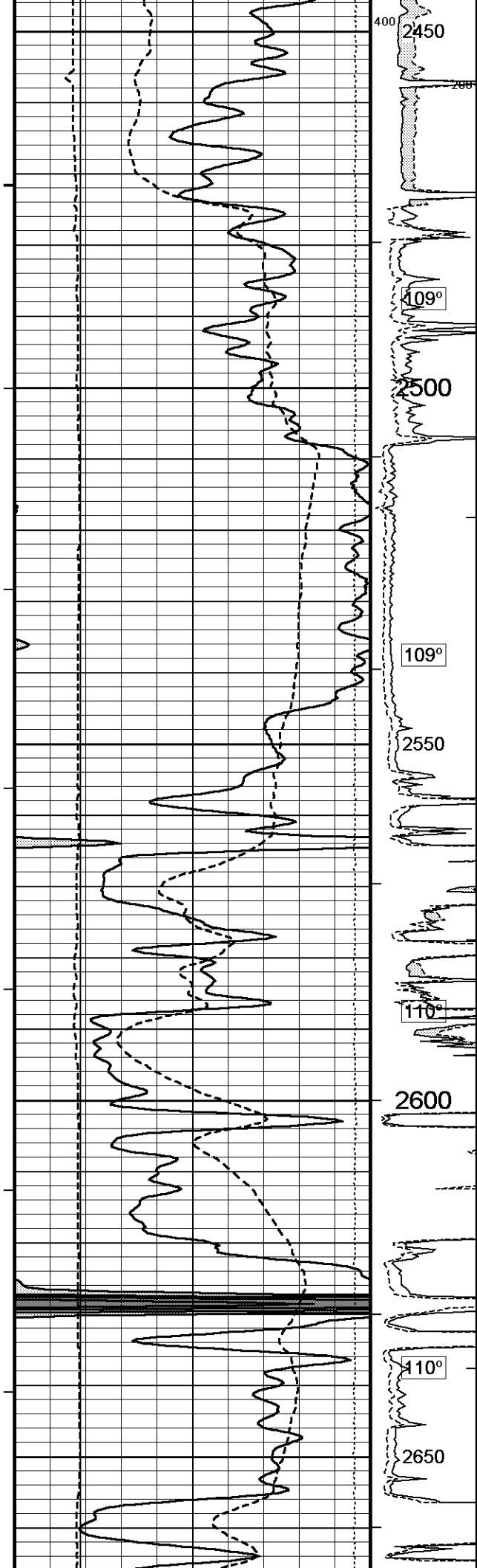


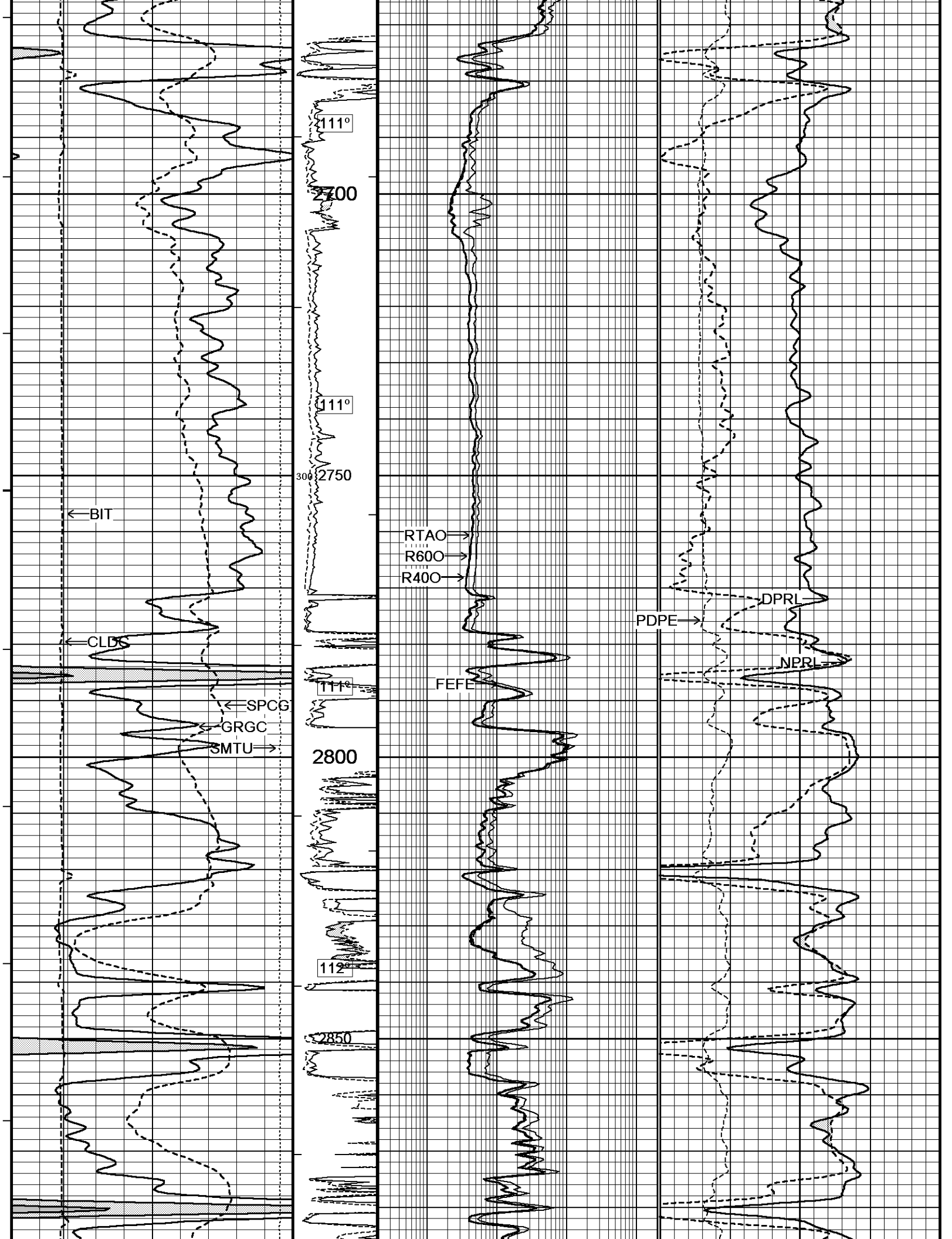


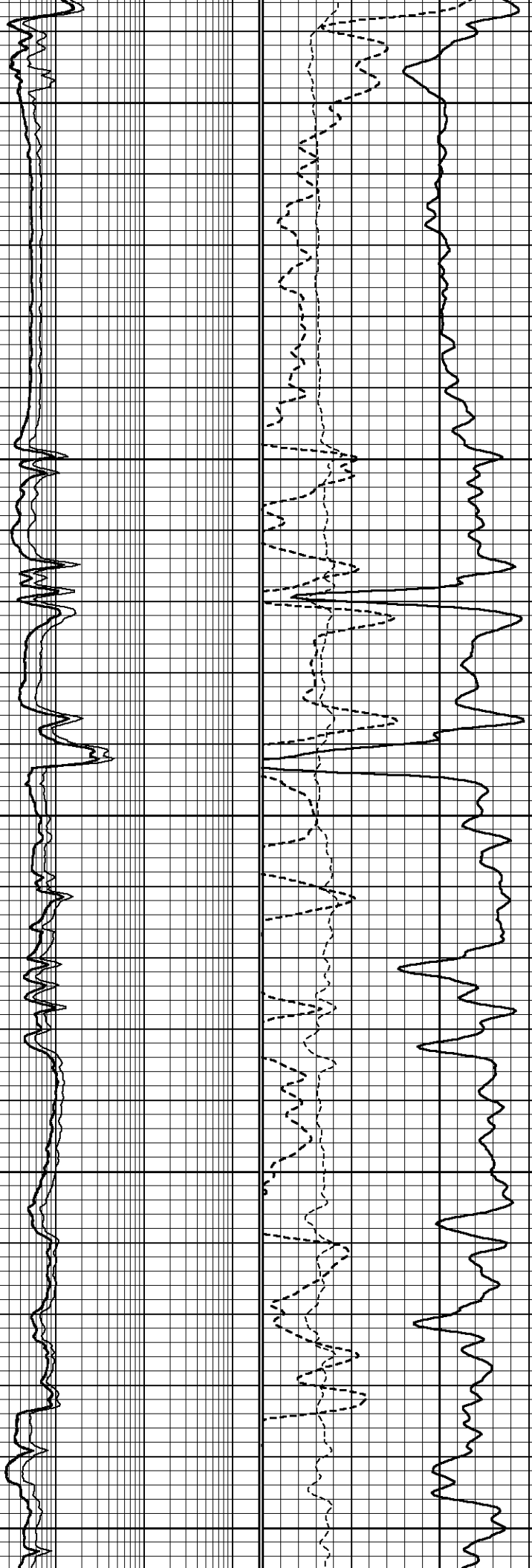
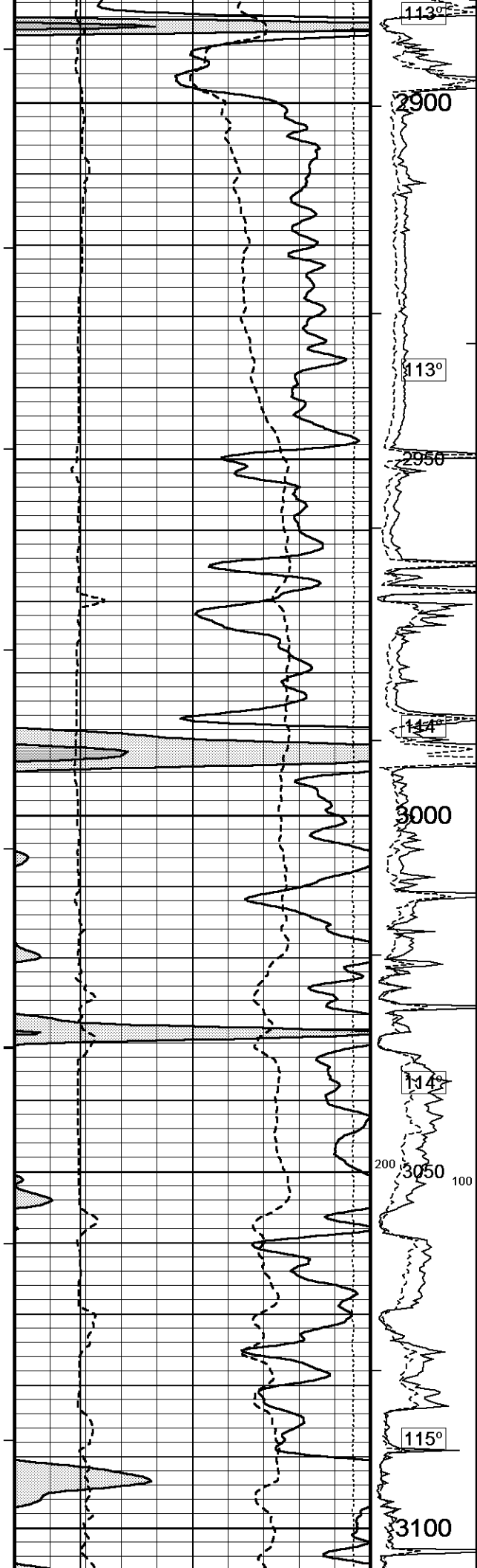


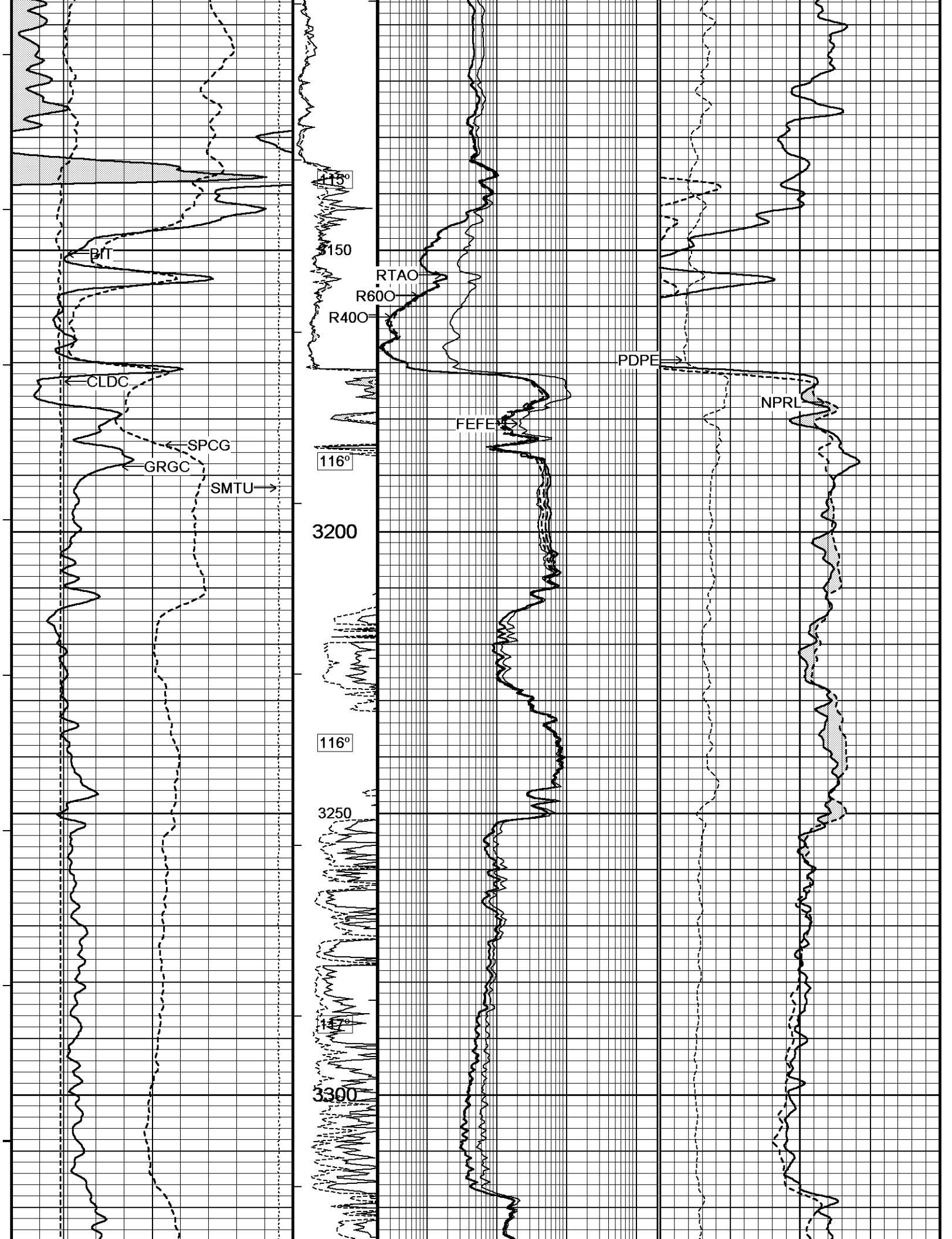




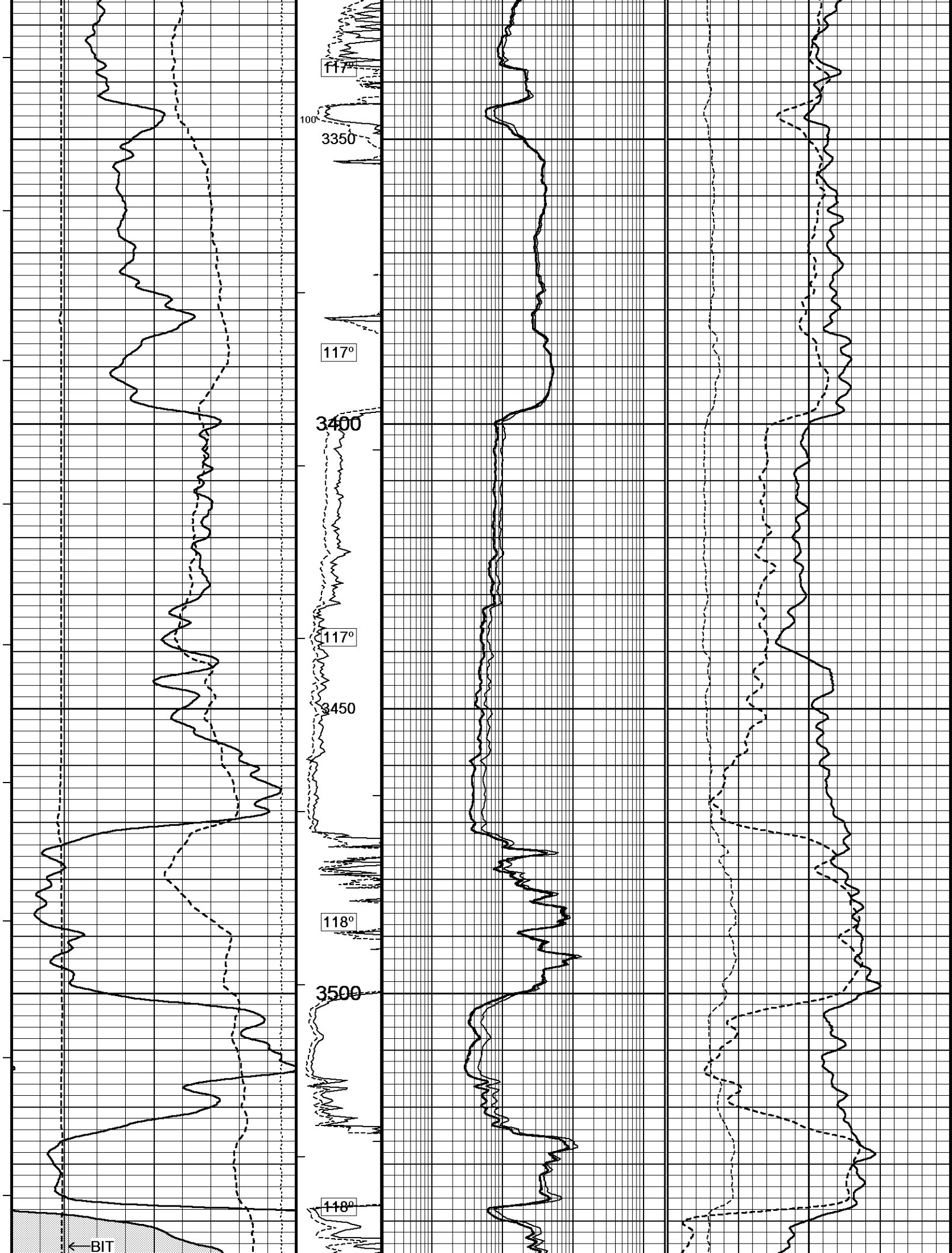


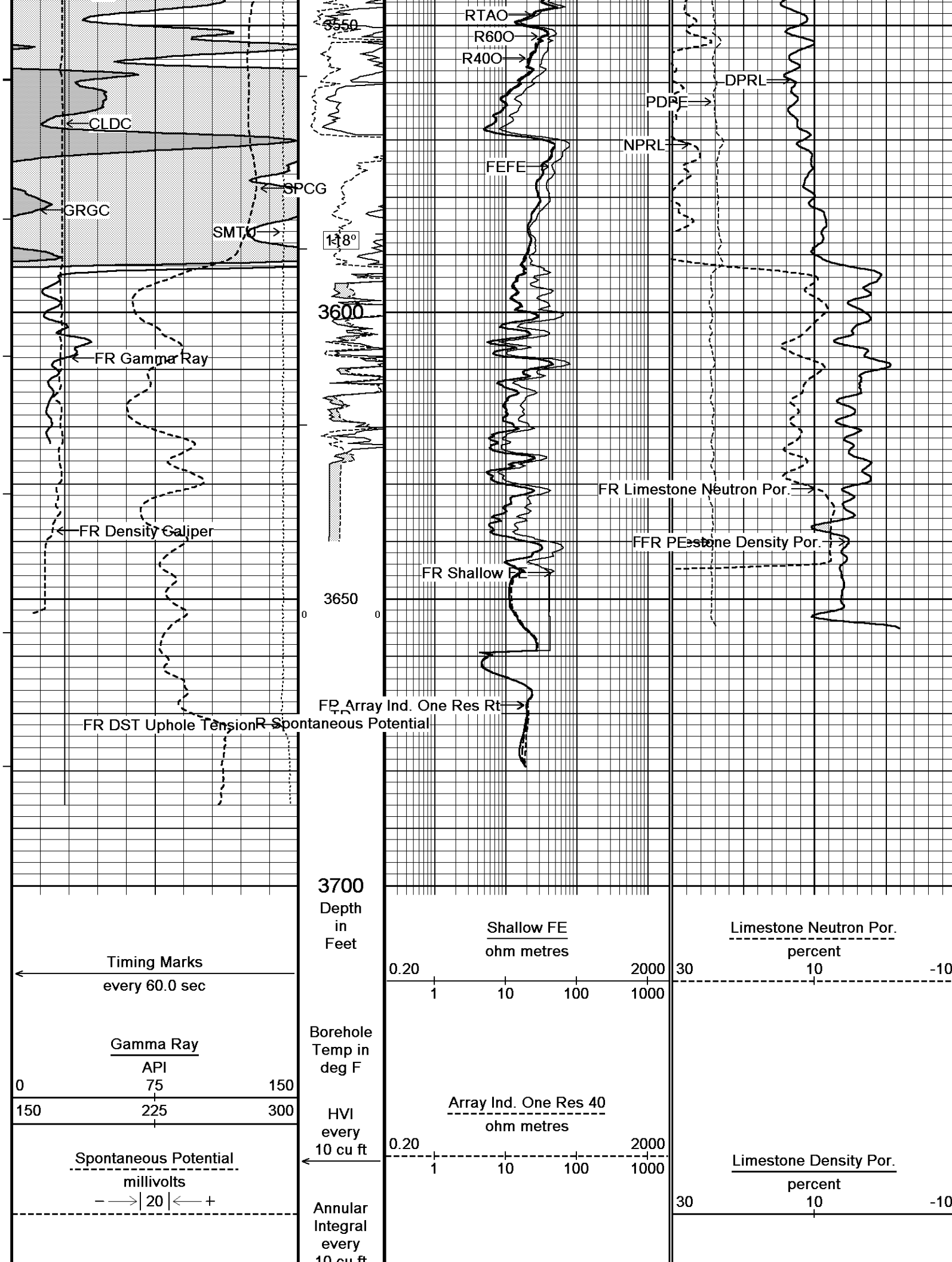


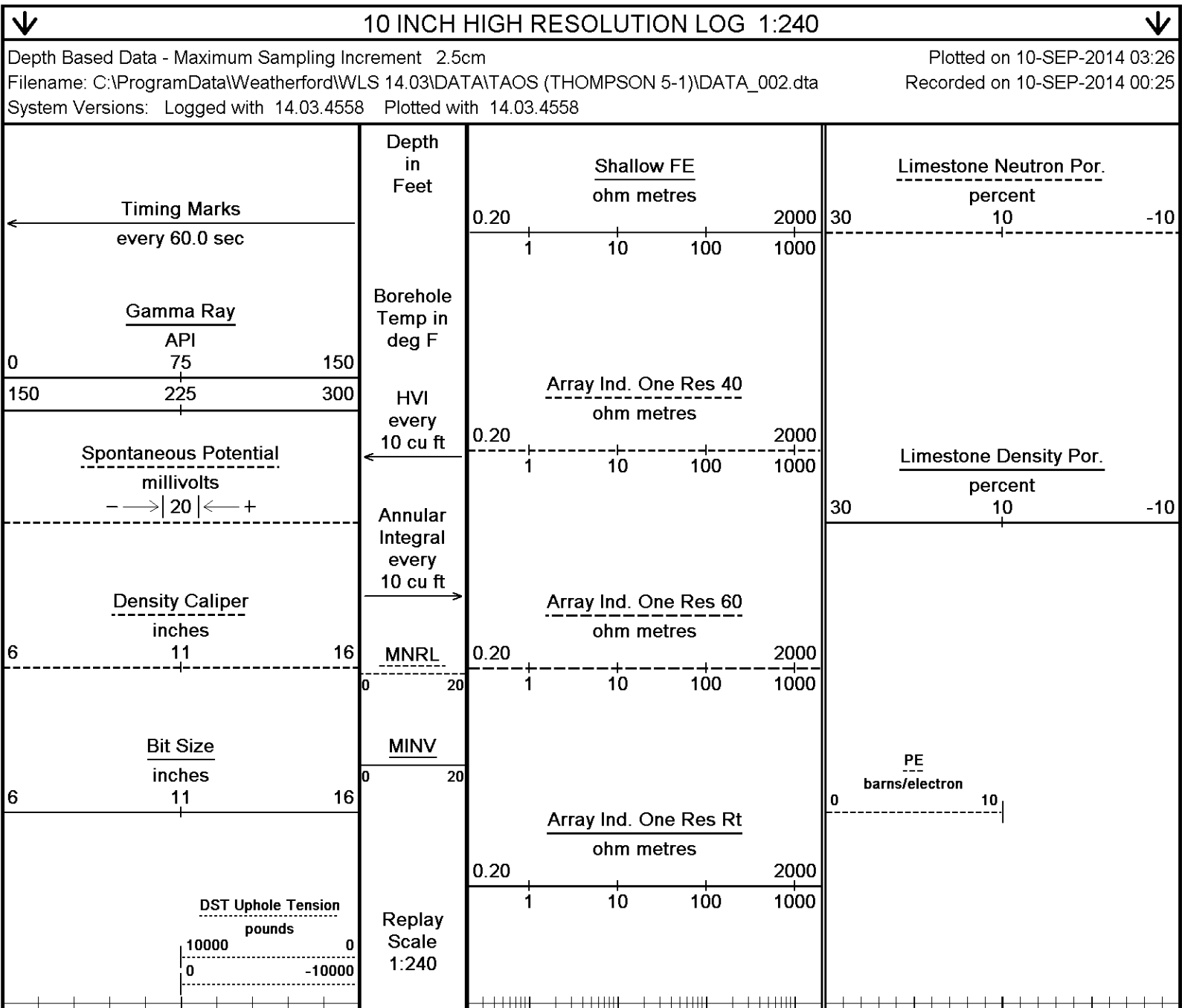
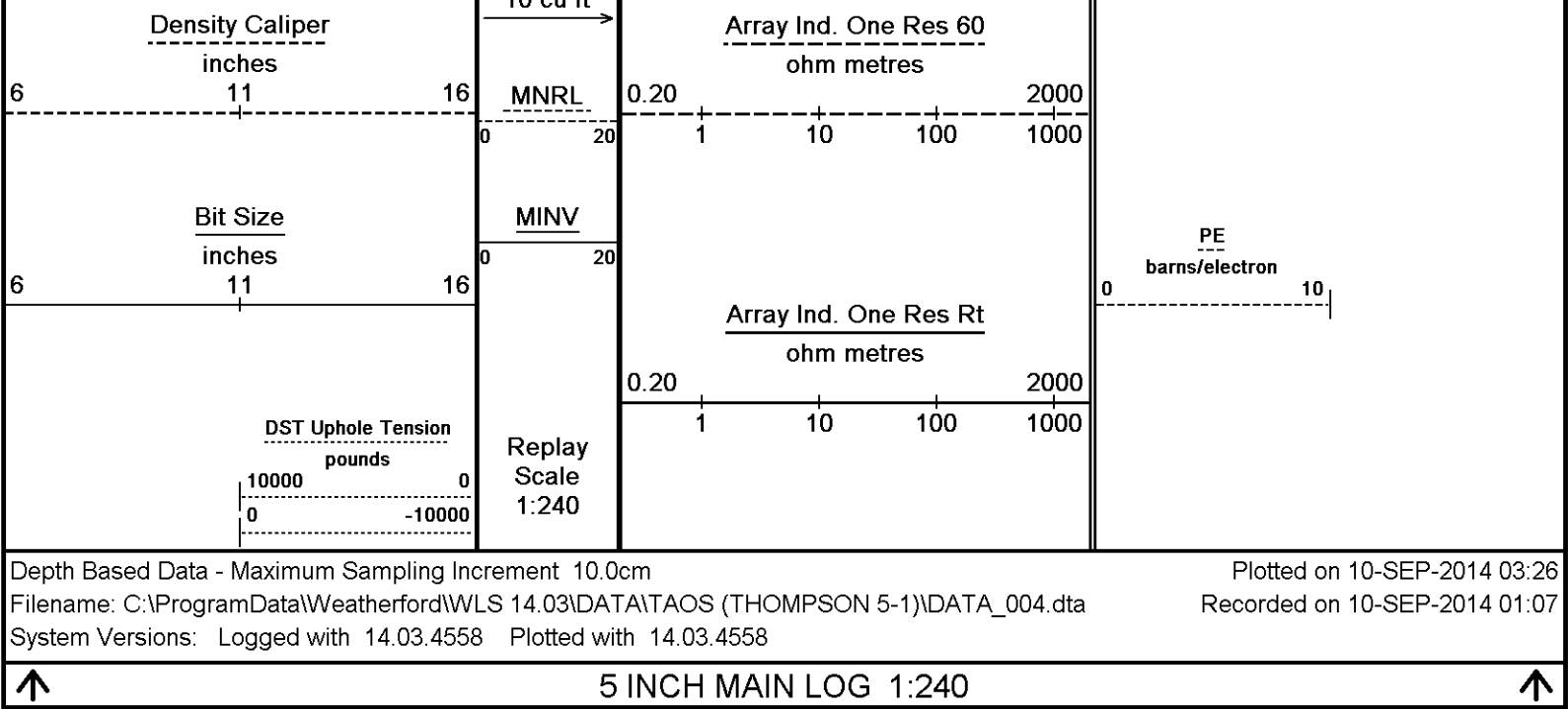


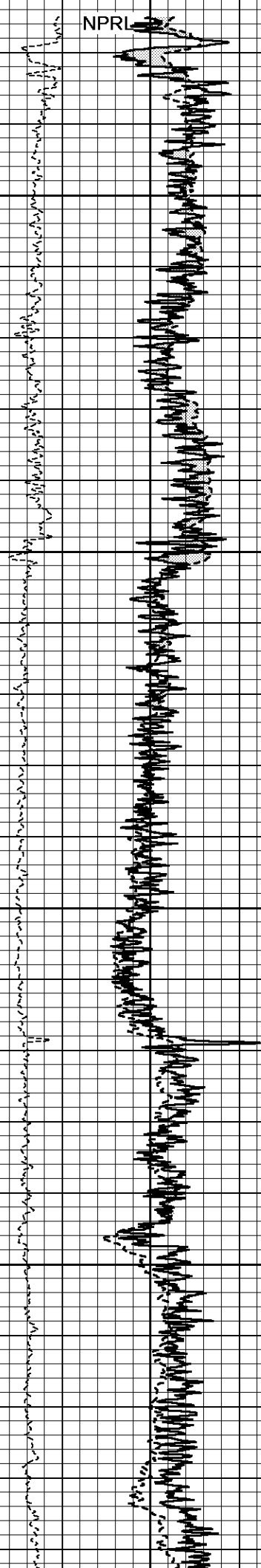
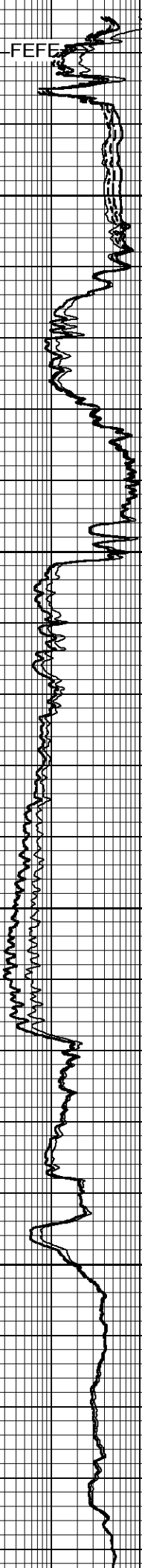
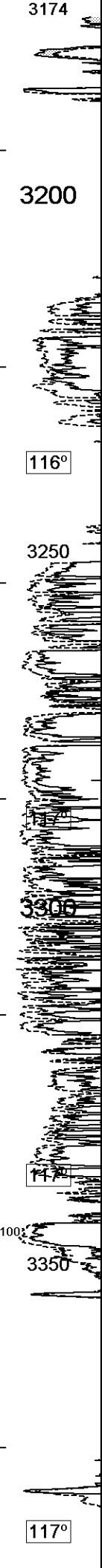
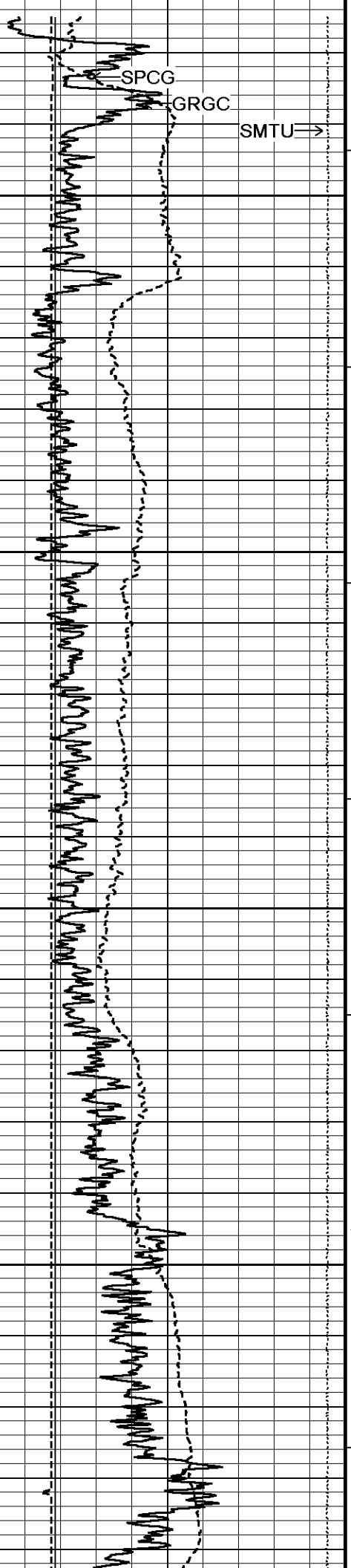


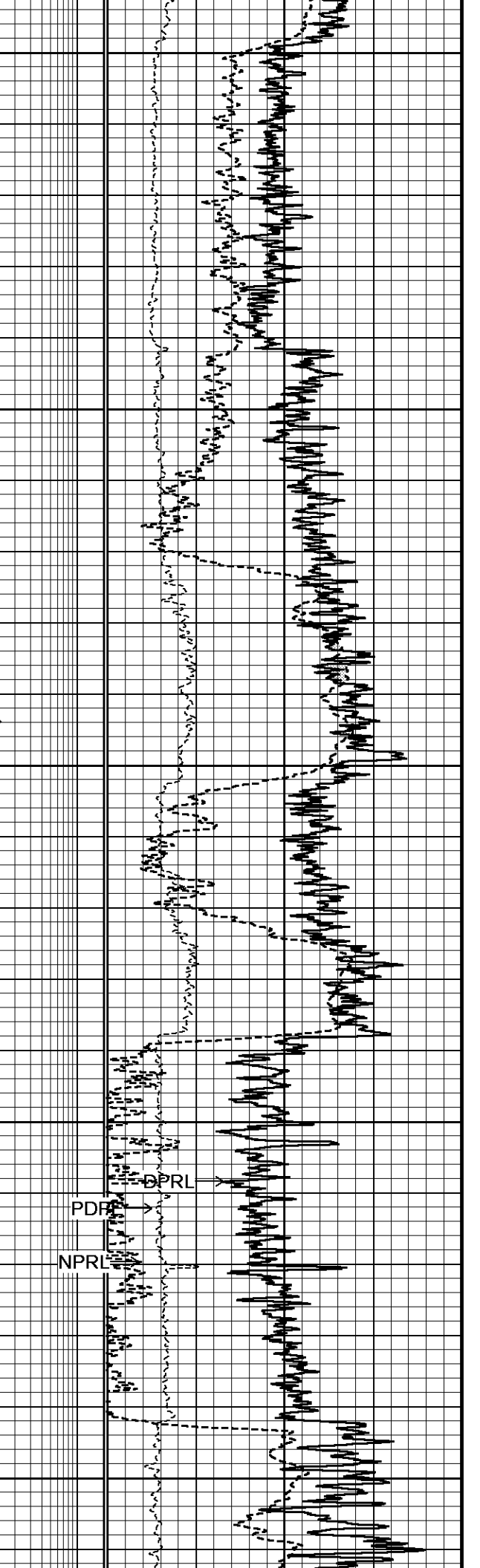
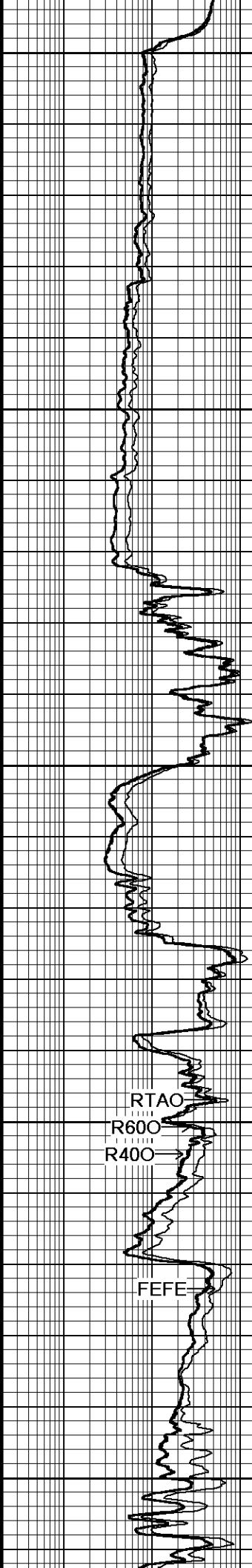
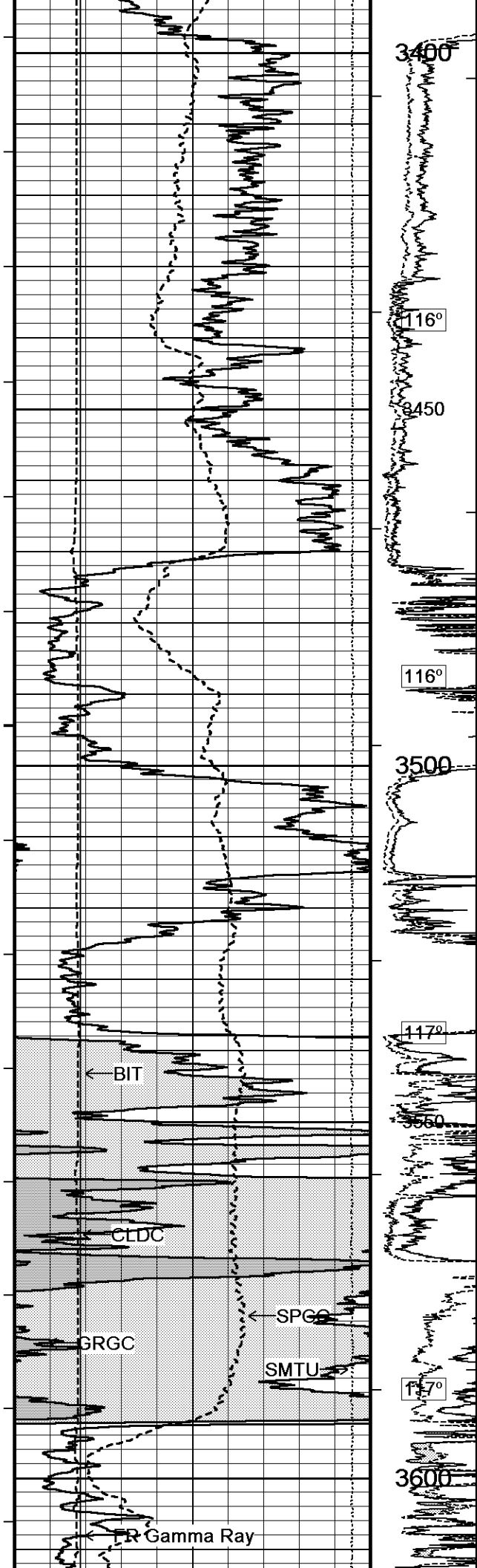


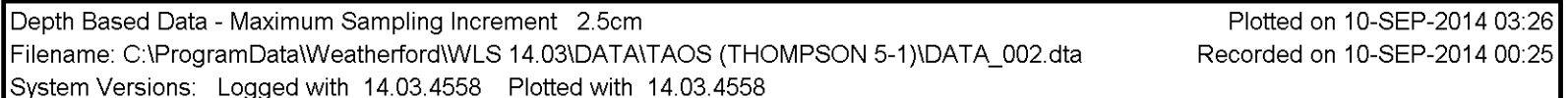


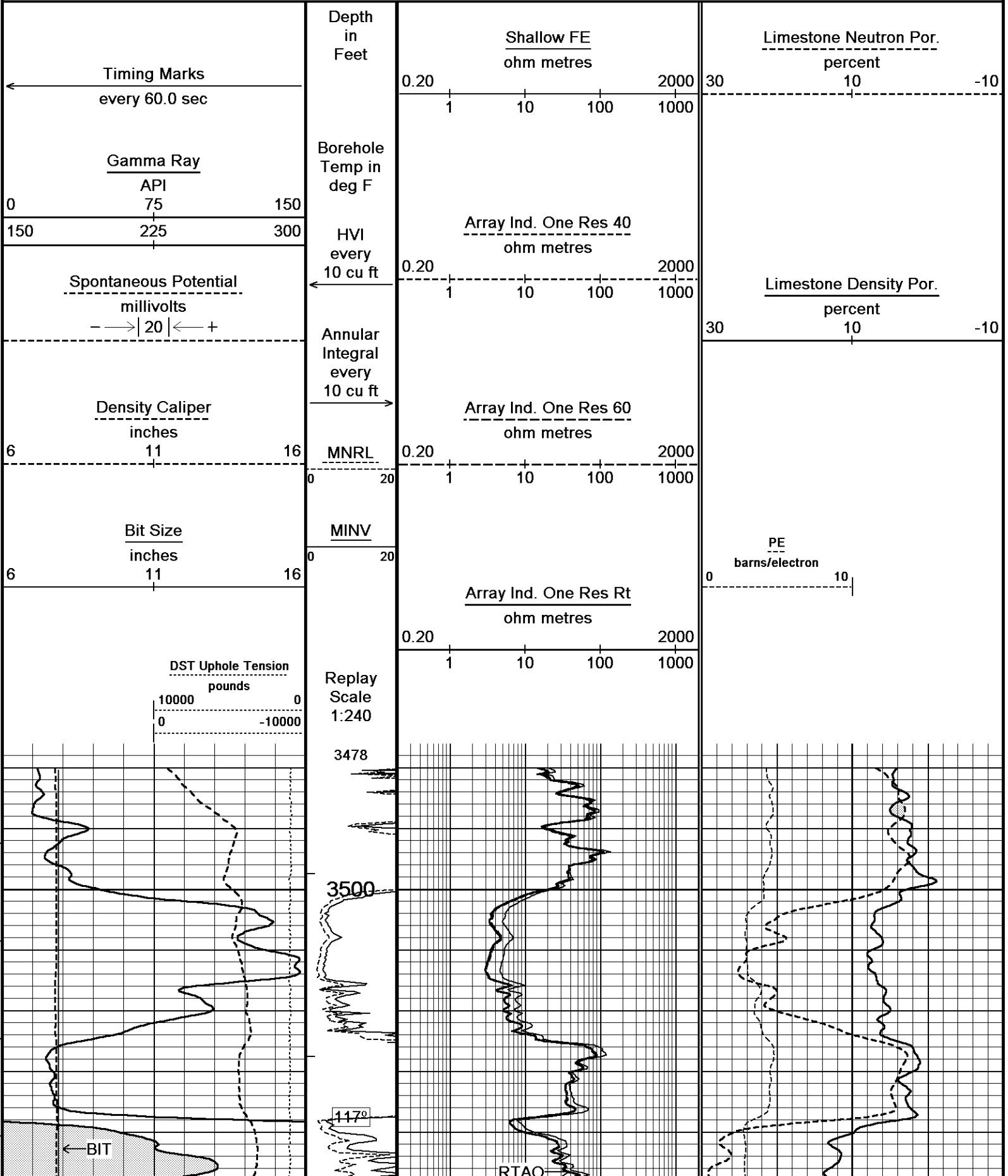


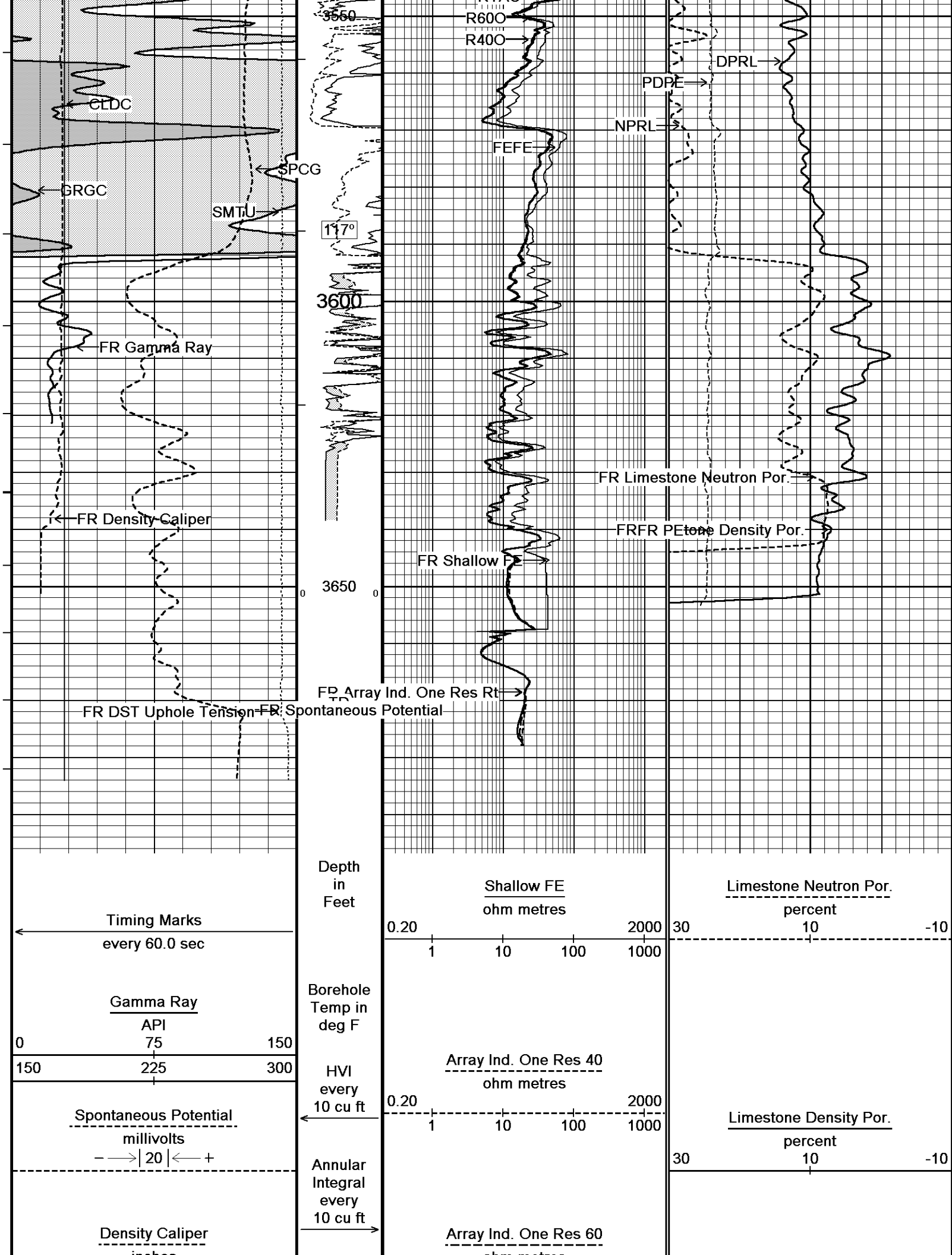




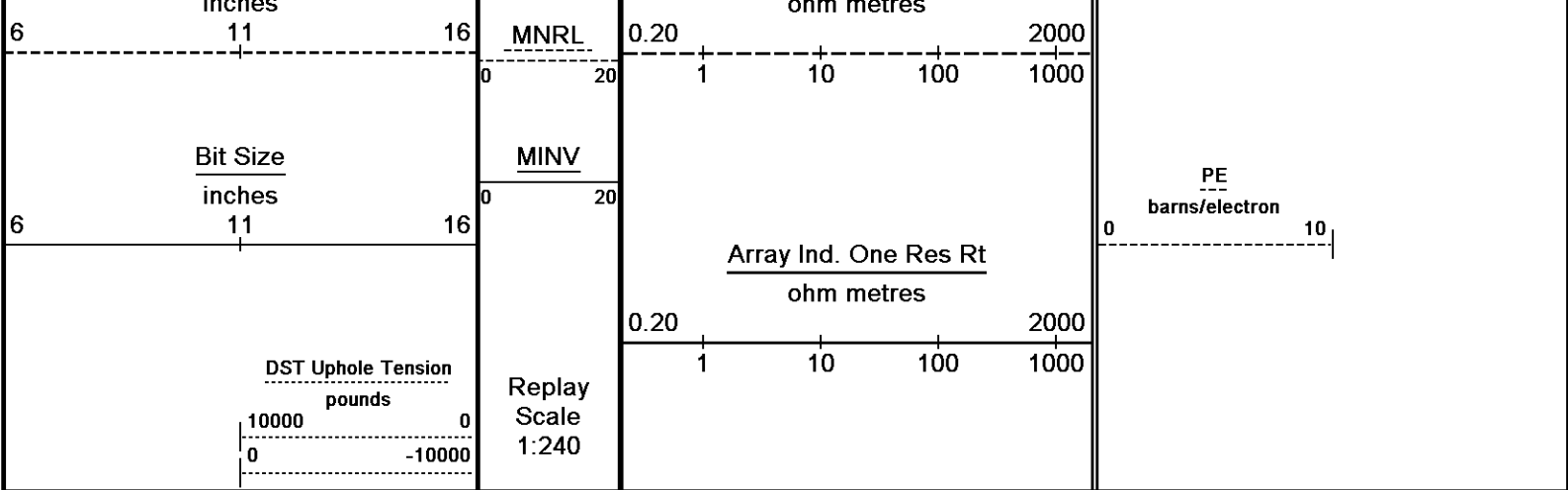












Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: C:\ProgramData\Weatherford\WLS 14.03\DATA\TAOS (THOMPSON 5-1)\DATA\_003.dta  
System Versions: Logged with 14.03.4558 Processed with 14.03.4558 Plotted with 14.03.4558

↑ 5 INCH REPEAT 1:240 ↑

**BEFORE SURVEY CALIBRATION**  
C:\ProgramData\Weatherford\WLS 14.03\DATA\TAOS (THOMPSON 5-1)\DATA.dta

|                                                         |                       |            |                                  |
|---------------------------------------------------------|-----------------------|------------|----------------------------------|
| General Constants All 000                               |                       |            | Last Edited on 09-SEP-2014,21:57 |
| General Parameters                                      |                       |            |                                  |
| Mud Resistivity                                         | 1.700                 | ohm-metres |                                  |
| Mud Resistivity Temperature                             | 95.000                | degrees F  |                                  |
| Water Level                                             | 0.000                 | feet       |                                  |
| Borehole Fluid Processing                               | Wet Hole              |            |                                  |
| Hole/Annular Volume and Differential Caliper Parameters |                       |            |                                  |
| HVOL Method                                             | Single Caliper        |            |                                  |
| HVOL Caliper 1                                          | Density Caliper       |            |                                  |
| HVOL Caliper 2                                          | N/A                   |            |                                  |
| Annular Volume Diameter                                 | 5.500                 | inches     |                                  |
| Caliper for Differential Caliper                        | Density Caliper       |            |                                  |
| Rwa Parameters                                          |                       |            |                                  |
| Porosity used                                           | Base Density Porosity |            |                                  |
| Resistivity used                                        | Array Ind. One Res Rt |            |                                  |
| RWA Constant A                                          | 0.610                 |            |                                  |
| RWA Constant M                                          | 2.150                 |            |                                  |
| SW/APOR Tool Source                                     | 0.000                 |            |                                  |

|                                     |          |                                        |  |
|-------------------------------------|----------|----------------------------------------|--|
| Down-hole Tension Calibration SMS 0 |          | Field Calibration on 09-SEP-2014 23:44 |  |
| Reading No                          | Measured | Calibrated (lbs)                       |  |
| 1                                   | 15782.70 | 0.00                                   |  |
| 2                                   | 16912.54 | 584.20                                 |  |

|                                                     |          |                                        |  |
|-----------------------------------------------------|----------|----------------------------------------|--|
| High Resolution Temperature Calibration MCG-D.K 441 |          | Field Calibration on 09-SEP-2014,16:06 |  |
|                                                     | Measured | Calibrated(Deg F)                      |  |
| Lower                                               | 50.00    | 50.00                                  |  |
| Upper                                               | 100.00   | 100.00                                 |  |

|                                                   |    |                                  |  |
|---------------------------------------------------|----|----------------------------------|--|
| High Resolution Temperature Constants MCG-D.K 441 |    | Last Edited on 05-SEP-2014,09:38 |  |
| Pre-filter Length                                 | 11 |                                  |  |

|                            |          |                                        |  |
|----------------------------|----------|----------------------------------------|--|
| SP Calibration MCG-D.K 441 |          | Field Calibration on 09-SEP-2014,16:07 |  |
|                            | Measured | Calibrated (mV)                        |  |
| Reference 1                | 100.0    | 100.0                                  |  |
| Reference 2                | -100.0   | -100.0                                 |  |

|                               |  |                                        |  |
|-------------------------------|--|----------------------------------------|--|
| Gamma Calibration MCG-D.K 441 |  | Field Calibration on 05-SEP-2014 00:44 |  |
|-------------------------------|--|----------------------------------------|--|

Measured

Calibrated (API)

|                    |      |     |
|--------------------|------|-----|
| Background         | 41   | 28  |
| Calibrator (Gross) | 1060 | 724 |
| Calibrator (Net)   | 1019 | 696 |

## Gamma Constants MCG-D.K 441

Last Edited on 09-SEP-2014,21:58

|                                 |                 |       |
|---------------------------------|-----------------|-------|
| Gamma Calibrator Number         | 696             |       |
| GRC-M Calibrator Jig in Use?    | NO              |       |
| Inactive Background Jig in Use? | NO              |       |
| Mud Density                     | 1.13            | gm/cc |
| Caliper Source for Processing   | Density Caliper |       |
| Tool Position                   | Eccentred       |       |
| Concentration of KCl            |                 | kppm  |
| K Mud Type                      | Chloride        |       |
| K Mud Concentration             | 0.00            | %     |

## Micro Normal and Micro Inverse Calibration MMR-A 33

Base Calibration on 13-AUG-2014 14:25

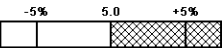
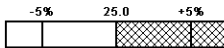
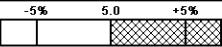
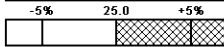
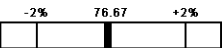
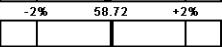
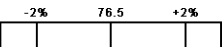
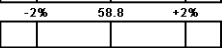
Field Check on 07-SEP-2014 23:31

## Base Calibration

| Channel       | Measured   |            | Calibrated (ohm-m) |            |
|---------------|------------|------------|--------------------|------------|
|               | Resistor 1 | Resistor 2 | Resistor 1         | Resistor 2 |
| Micro Normal  | 11.7       | 59.3       | 5.0                | 25.0       |
| Micro Inverse | 15.6       | 77.5       | 5.0                | 25.0       |

| Channel       | Base Check (ohm-m) | Field Check (ohm-m) |
|---------------|--------------------|---------------------|
| Micro Normal  | 76.5               | 76.5                |
| Micro Inverse | 58.8               | 58.8                |

## Micro Normal &amp; Micro Inverse Calibration Tolerance MMR-A 33

|                           |      |                                                                                     |       |                      |      |                                                                                     |     |
|---------------------------|------|-------------------------------------------------------------------------------------|-------|----------------------|------|-------------------------------------------------------------------------------------|-----|
| Micro Normal Res. 1       | 11.7 |    | ohm   | Micro Normal Res. 2  | 59.3 |  | ohm |
| Micro Inverse Res. 1      | 15.6 |    | ohm   | Micro Inverse Res. 2 | 77.5 |  | ohm |
| Micro Normal Base Check   | 76.5 |  | ohm-m |                      |      |                                                                                     |     |
| Micro Inverse Base Check  | 58.8 |  | ohm-m |                      |      |                                                                                     |     |
| Micro Normal Field Check  | 76.5 |  | ohm-m |                      |      |                                                                                     |     |
| Micro Inverse Field Check | 58.8 |  | ohm-m |                      |      |                                                                                     |     |

## Micro Normal and Micro Inverse Constants MMR-A 33

Last Edited on 26-SEP-2012,13:26

|                        |                                             |        |
|------------------------|---------------------------------------------|--------|
| Pad Type               | 8-12 in Soft Rubber Inflatable 006-9011-159 |        |
| Micro Normal K Factor  | 1.0000                                      |        |
| Micro Inverse K Factor | 1.0000                                      |        |
| Standoff Offset        | 0.0000                                      | inches |

## Caliper Calibration MMR-A 33

Base Calibration on 13-AUG-2014 14:55

Field Calibration on 09-SEP-2014 16:06

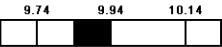
## Base Calibration

| Reading No | Measured | Calibrator Size (in) |
|------------|----------|----------------------|
| 1          | 13362    | 5.96                 |
| 2          | 16643    | 7.99                 |
| 3          | 19893    | 9.86                 |
| 4          | 23716    | 11.93                |
| 5          | 0        | 0.00                 |
| 6          | N/A      | N/A                  |

## Field Calibration

| Measured Caliper (in) | Actual Caliper (in) |
|-----------------------|---------------------|
| 9.84                  | 9.94                |

## Caliper Calibration Tolerances MMR-A 33

|                      |      |                                                                                     |    |
|----------------------|------|-------------------------------------------------------------------------------------|----|
| Short Arm Field Cal. | 9.84 |  | in |
|----------------------|------|-------------------------------------------------------------------------------------|----|

## Micro Laterolog Calibration MMR-A 33

Base Calibration on 31-DEC-1999 00:00

Field Check on 31-DEC-1999 00:00

## Base Calibration

|       |          |                    |
|-------|----------|--------------------|
|       | Measured | Calibrated (ohm-m) |
| Ref 1 | Ref 2    | Ref 1              |
| 0.0   | 0.0      | 0.0                |
| 0.0   |          | 0.0                |

|                    |                     |
|--------------------|---------------------|
| Base Check (ohm-m) | Field Check (ohm-m) |
| 0.0                | 0.0                 |

Micro Laterolog Constants MMR-A 33

Last Edited on 21-JUL-2014,04:21

|                          |                         |        |
|--------------------------|-------------------------|--------|
| Pad Type                 | 6 in Solid Nylon B23059 |        |
| Micro Laterolog K Factor | 0.0128                  |        |
| Standoff Offset          | 0.0000                  | inches |

|                                        |                |        |
|----------------------------------------|----------------|--------|
| Mudcake Thickness Correction Constants |                |        |
| Mud Cake Source                        | Constant Value |        |
| Mud Cake Thickness                     | 0.4000         | inches |
| Mud Cake Thickness Caliper             | N/A            |        |
| Mud Cake Resistivity                   | 0.1500         | ohm-m  |
| Mud Cake Resistivity Temp.             | 68.00          | Deg F  |
| Mud Cake Resistivity Source            | Constant Value |        |
| Temp. Source Rmc Correc.               | N/A            |        |

Micro-Resistivity Caliper Constants MMR-A 33

Last Edited on

|                     |                  |
|---------------------|------------------|
| Sonde Configuration | Resistivity Mode |
|---------------------|------------------|

Neutron Calibration MDN-A.B 178

Base Calibration on 07-SEP-2014,23:31

Field Check on

|                          |          |                  |        |
|--------------------------|----------|------------------|--------|
| Base Calibration         |          |                  |        |
|                          | Measured | Calibrated (cps) |        |
|                          | Near     | Far              | Near   |
|                          | 3060     | 98               | 3714   |
| Ratio                    | 31.300   |                  | 33.764 |
| Field Calibrator at Base |          | Calibrated (cps) |        |
|                          |          | 2331             | 3319   |
| Ratio                    |          | 0.702            |        |
| Field Check              |          | Calibrated (cps) |        |
| Ratio                    |          |                  |        |

Neutron Calibration Tolerances MDN-A.B 178

|              |        |                                                                 |     |             |    |                                                             |     |
|--------------|--------|-----------------------------------------------------------------|-----|-------------|----|-------------------------------------------------------------|-----|
| Near Reading | 3060   | <div> <div>-25%</div> <div>3500</div> <div>+25%</div> </div>    | cps | Far Reading | 98 | <div> <div>-50%</div> <div>106</div> <div>+50%</div> </div> | cps |
| Ratio        | 31.300 | <div> <div>-5%</div> <div>33</div> <div>+5%</div> </div>        |     |             |    |                                                             |     |
| Base Check   | 0.702  | <div> <div>0.65</div> <div>0.7</div> <div>0.75</div> </div>     |     |             |    |                                                             |     |
| Field Check  | 0.000  | <div> <div>0.682</div> <div>0.702</div> <div>0.722</div> </div> |     |             |    |                                                             |     |

Neutron Constants MDN-A.B 178

Last Edited on 07-SEP-2014,23:32

|                                 |                 |           |
|---------------------------------|-----------------|-----------|
| Neutron Source Id               | P14033B         |           |
| Neutron Jig Number              | N639            |           |
| Air Hole Processing             | Legacy          |           |
| Caliper Source for Processing   | Density Caliper |           |
| Stand-off                       | 0.00            | inches    |
| Mud Density                     | 1.00            | gm/cc     |
| Limestone Sigma                 | 7.10            | cu        |
| Sandstone Sigma                 | 4.26            | cu        |
| Dolomite Sigma                  | 4.70            | cu        |
| Formation Pressure Source       | Constant Value  |           |
| Formation Pressure              | 0.00            | kpsi      |
| Temperature Source              | Constant Value  |           |
| Temperature                     | 68.00           | degrees F |
| Mud Salinity                    | 0.00            | kppm      |
| Salinity Correction             | Not Applied     |           |
| Formation Fluid Salinity Source | Constant Value  |           |
| Formation Fluid Salinity        | 0.00            | kppm      |
| Barite Mud Correction           | Not Applied     |           |

## FE Calibration MFE-C.A 430

Base Calibration on 04-JUN-2014 10:08

Field Check on 09-SEP-2014 16:04

### Base Calibration

|             | Measured | Calibrated (ohm-m) |
|-------------|----------|--------------------|
| Reference 1 | 9.7      | 1.3                |
| Reference 2 | 961.9    | 126.8              |
| Base Check  |          | 281.8              |
| Field Check |          | 282.1              |

## FE Calibration Tolerances MFE-C.A 430

|             |       |                                                                    |       |
|-------------|-------|--------------------------------------------------------------------|-------|
| Reference 2 | 961.9 | <div><div></div><div></div><div></div><div></div><div></div></div> | ohm   |
| Base Check  | 281.8 | <div><div></div><div></div><div></div><div></div><div></div></div> | ohm-m |
| Field Check | 282.1 | <div><div></div><div></div><div></div><div></div><div></div></div> | ohm-m |

## FE Constants MFE-C.A 430

Last Edited on 09-SEP-2014,16:03

|                                  |                 |        |
|----------------------------------|-----------------|--------|
| Running Mode                     | No Sleeve       |        |
| MFE K Factor                     | 0.1268          |        |
| Caliper Source for FE correction | Density Caliper |        |
| Caliper Value for FE correction  | N/A             | inches |
| Rm Source for FE correction      | Constant Value  |        |
| Temp. for Rm Corr.               | N/A             |        |
| Stand-off                        | 0.5             | inches |

## Sonic Constants MSS-A.A 101

Last Edited on 31-MAY-2014,03:03

|                           |                        |              |
|---------------------------|------------------------|--------------|
| Maximum Boundary Contrast | 100.00                 | micro-sec/ft |
| Fluid Transit Time        | 189.00                 | micro-sec/ft |
| Limestone Transit Time    | 47.50                  | micro-sec/ft |
| Sandstone Transit Time    | 55.50                  | micro-sec/ft |
| Dolomite Transit Time     | 43.50                  | micro-sec/ft |
| 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    |
| Hunt-Raymer Constant      | 83.13                  | micro-sec/ft |

|            |             |
|------------|-------------|
| Sonde Mode | Compensated |
| Hole Type  | Open Hole   |

### Sonde Parameters

|                       | Measured | Calibrated |
|-----------------------|----------|------------|
| Offset                | N/A      | 0.0000     |
| Free Pipe             | N/A      | N/A        |
| Peak Amplitude Source |          | N/A        |

| Waveform | Start Time (micro-sec) | Width (micro-sec) | Pre Gain | Start Gain | Discriminator (mV) |
|----------|------------------------|-------------------|----------|------------|--------------------|
| 3'       | N/A                    | N/A               | N/A      | N/A        | N/A                |
| 4'       | N/A                    | N/A               | N/A      | N/A        | N/A                |
| 5'       | N/A                    | N/A               | N/A      | N/A        | N/A                |
| 6'       | N/A                    | N/A               | N/A      | N/A        | N/A                |

### Processed Fixed Gate Parameters

|                              |                      |                    |            |
|------------------------------|----------------------|--------------------|------------|
| Waveform Used For Processing |                      | N/A                |            |
| Start Time (micro-sec)       | End Time (micro-sec) | Discriminator (mV) | Depth (ft) |
| N/A                          | N/A                  | N/A                | 0.00       |
| N/A                          | N/A                  | N/A                | 0.00       |
| N/A                          | N/A                  | N/A                | 0.00       |
| N/A                          | N/A                  | N/A                | 0.00       |
| N/A                          | N/A                  | N/A                | 0.00       |

### 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-A.A 166

Base Calibration on 26-MAR-2014,14:30

Field Check on 09-SEP-2014 16:03

### Base Calibration

| Test Loop Calibration |  | Measured |       | Calibrated (mmho/m) |       |
|-----------------------|--|----------|-------|---------------------|-------|
| Channel               |  | Low      | High  | Low                 | High  |
| 1                     |  | 17.4     | 475.9 | 9.3                 | 966.2 |
| 2                     |  | 6.7      | 390.1 | 7.6                 | 821.4 |
| 3                     |  | 3.6      | 261.4 | 5.2                 | 566.0 |
| 4                     |  | 2.0      | 135.3 | 2.6                 | 279.2 |

Array Temperature 23.6 Deg F

### Test Loop Calibration Verified

| Channel | Base Check (mmho/m) |      | Field Check (mmho/m) |        |
|---------|---------------------|------|----------------------|--------|
|         | Low                 | High | Low                  | High   |
| 1       |                     |      | 13.8                 | 3828.2 |
| 2       |                     |      | 28.8                 | 3465.5 |
| 3       |                     |      | 28.2                 | 3035.1 |
| 4       |                     |      | 19.2                 | 2048.1 |
| Deep    |                     |      | 18.1                 | 2014.2 |
| Medium  |                     |      | 40.7                 | 3989.7 |
| Shallow |                     |      | 41.8                 | 5068.5 |

Array Temperature 92.9 Deg F

## Induction Calibration Tolerances MAI-A.A 166

|                    |      |  |                            |       |  |        |
|--------------------|------|--|----------------------------|-------|--|--------|
| Low Conductivity 1 | 17.4 |  | mmho/m High Conductivity 1 | 475.9 |  | mmho/m |
| Low Conductivity 2 | 6.7  |  | mmho/m High Conductivity 2 | 390.1 |  | mmho/m |
| Low Conductivity 3 | 3.6  |  | mmho/m High Conductivity 3 | 261.4 |  | mmho/m |
| Low Conductivity 4 | 2.0  |  | mmho/m High Conductivity 4 | 135.3 |  | mmho/m |
| Background Vx 1    | 0.0  |  | mmho/m Phase Check Loop 1  | 0.0   |  | %      |
| Background Vx 2    | 0.0  |  | mmho/m Phase Check Loop 2  | 0.0   |  | %      |
| Background Vx 3    | 0.0  |  | mmho/m Phase Check Loop 3  | 0.0   |  | %      |
| Background Vx 4    | 0.0  |  | mmho/m Phase Check Loop 4  | 0.0   |  | %      |

## Induction Constants MAI-A.A 166

Last Edited on 09-SEP-2014,16:01

|                                   |                  |         |
|-----------------------------------|------------------|---------|
| Induction Model                   | RtAP-WBM         |         |
| Caliper for Borehole Corr.        | Density Caliper  |         |
| Hole Size for Borehole Correction | N/A              | inches  |
| Tool Centred                      | No               |         |
| Stand-off Type                    | Fins             |         |
| Stand-off                         | 0.50             | inches  |
| Number of Fins on Stand-off       | 6.0000           |         |
| Stand-off Fin Angle               | 60.00            | degrees |
| Stand-off Fin Width               | 0.5000           | inches  |
| Borehole Corr. Rm Source          | Temperature Corr |         |

|                                                  |                          |        |             |
|--------------------------------------------------|--------------------------|--------|-------------|
| Temp. for Rm Corr.                               | MCG External Temperature |        |             |
| Squasher Start                                   |                          | 0.0020 | mhos/metre  |
| Squasher Offset                                  |                          | N/A    | 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       |
| Source for Rt                                    |                          | 0.00   |             |
| Source for Rxo                                   |                          | 0.00   |             |

|                                                     |          |                   |                                        |
|-----------------------------------------------------|----------|-------------------|----------------------------------------|
| High Resolution Temperature Calibration MAI-A.A 166 |          |                   | Field Calibration on 09-SEP-2014,16:02 |
|                                                     | Measured | Calibrated(Deg F) |                                        |
| Lower                                               | 50.00    | 50.00             |                                        |
| Upper                                               | 75.00    | 75.00             |                                        |

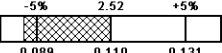
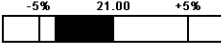
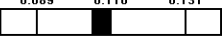
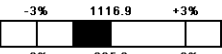
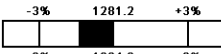
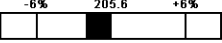
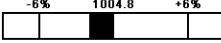
|                                                   |    |                                  |
|---------------------------------------------------|----|----------------------------------|
| High Resolution Temperature Constants MAI-A.A 166 |    | Last Edited on 04-SEP-2014,10:35 |
| Pre-filter Length                                 | 11 |                                  |

|                                 |                       |                      |                                        |
|---------------------------------|-----------------------|----------------------|----------------------------------------|
| Caliper Calibration MPD-C.J 396 |                       |                      | Base Calibration on 09-SEP-2014 15:07  |
|                                 |                       |                      | Field Calibration on 09-SEP-2014 15:08 |
| Base Calibration                |                       |                      |                                        |
| Reading No                      | Measured              | Calibrator Size (in) |                                        |
| 1                               | 15663                 | 4.01                 |                                        |
| 2                               | 24624                 | 5.96                 |                                        |
| 3                               | 34582                 | 7.98                 |                                        |
| 4                               | 44808                 | 9.94                 |                                        |
| 5                               | 55344                 | 11.91                |                                        |
| 6                               | N/A                   | N/A                  |                                        |
| Field Calibration               |                       |                      |                                        |
|                                 | Measured Caliper (in) | Actual Caliper (in)  |                                        |
|                                 | 7.98                  | 7.98                 |                                        |

|                                            |      |                                                          |  |    |
|--------------------------------------------|------|----------------------------------------------------------|--|----|
| Caliper Calibration Tolerances MPD-C.J 396 |      |                                                          |  |    |
| Short Arm Field Cal.                       | 7.98 | <div><div>7.78</div><div>7.98</div><div>8.18</div></div> |  | in |

|                                       |        |          |                                       |       |
|---------------------------------------|--------|----------|---------------------------------------|-------|
| Photo Density Calibration MPD-C.J 396 |        |          | Base Calibration on 09-SEP-2014 15:33 |       |
|                                       |        |          | Field Check on 09-SEP-2014 15:41      |       |
| Density Calibration                   |        |          |                                       |       |
| Base Calibration                      |        | Measured | Calibrated (sdu)                      |       |
|                                       | Near   | Far      | Near                                  | Far   |
| Background                            | 1117   | 1281     |                                       |       |
| Reference 1                           | 45746  | 24818    | 59494                                 | 30754 |
| Reference 2                           | 19939  | 2449     | 24557                                 | 2522  |
| Field Check at Base                   |        |          |                                       |       |
|                                       | 1116.9 | 1281.2   |                                       |       |
| Field Check                           |        |          |                                       |       |
|                                       | 1099.4 | 1262.9   |                                       |       |

|                     |       |          |       |            |
|---------------------|-------|----------|-------|------------|
| PE Calibration      |       | Measured |       | Calibrated |
| Base Calibration    | WS    | WH       | Ratio | Ratio      |
| Background          | 206   | 1005     |       |            |
| Reference 1         | 17744 | 45589    | 0.393 | 0.367      |
| Reference 2         | 5545  | 19822    | 0.284 | 0.271      |
| Field Check at Base |       |          |       |            |
|                     | 205.6 | 1004.8   |       |            |
| Field Check         |       |          |       |            |
|                     | 201.4 | 985.2    |       |            |

|                                                  |        |                                                                                   |                      |                                                                                            |
|--------------------------------------------------|--------|-----------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------|
| Photo Density Calibration Tolerances MPD-C.J 396 |        |                                                                                   |                      |                                                                                            |
| Near Density Ratio                               | 2.37   |  | Far Density Ratio    | 20.16   |
| PE Calibration                                   | 0.104  |  |                      |                                                                                            |
| Near Den. Field Check                            | 1099.4 |  | Far Den. Field Check | 1262.9  |
| PE WS Field Check                                | 201.4  |  | PE WH Field Check    | 985.2   |

|                               |                 |                                  |  |  |
|-------------------------------|-----------------|----------------------------------|--|--|
| Density Constants MPD-C.J 396 |                 | Last Edited on 09-SEP-2014,22:15 |  |  |
| Density Source Id             | 260             |                                  |  |  |
| Nylon Calibrator Number       | DNCE 766        |                                  |  |  |
| Aluminium Calibrator Number   | DACD 633        |                                  |  |  |
| Density Shoe Profile          | 8 inch          |                                  |  |  |
| Caliper Source for Processing | Density Caliper |                                  |  |  |
| PE Correction to Density      | Not Applied     |                                  |  |  |
| Mud Density                   | 1.13            | gm/cc                            |  |  |
| Mud Density Z/A Multiplier    | 1.11            |                                  |  |  |
| Mud Filtrate Density          | 1.00            | gm/cc                            |  |  |
| Dry Hole Mud Filtrate Density | 1.00            | gm/cc                            |  |  |
| DNCT                          | 0.00            | gm/cc                            |  |  |
| CRCT                          | 0.00            | gm/cc                            |  |  |
| Density Z/A Correction        | Hybrid          |                                  |  |  |
| Matrix Density (gm/cc)        | Depth (ft)      |                                  |  |  |
| 2.78                          | 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            |                                  |  |  |

|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|----------------------------|--------------------|--------|-------------|--------|--------|---------------------------------------|--|--|----------------------------------------|--|--|
| Spectral Gamma Calibration |                    |        | SGS-E.J 171 |        |        | Base Calibration on 25-APR-2014 10:07 |  |  | Field Calibration on 25-APR-2014 10:16 |  |  |
| Base Calibration           |                    |        |             |        |        |                                       |  |  |                                        |  |  |
| Potassium Calibrator       |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    | Gate 1 | Gate 2      | Gate 3 | Gate 4 | Gate 5                                |  |  |                                        |  |  |
|                            | Background         | 76.2   | 24.3        | 2.4    | 0.9    | 1.4                                   |  |  |                                        |  |  |
|                            | Calibrator (Gross) | 201.7  | 114.2       | 16.7   | 0.8    | 1.3                                   |  |  |                                        |  |  |
|                            | Calibrator (Net)   | 125.5  | 90.0        | 14.3   | -0.1   | -0.1                                  |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
|                            |                    |        |             |        |        |                                       |  |  |                                        |  |  |
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|                    |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|
| Background         | Gate 1 | Gate 2 | Gate 3 | Gate 4 | Gate 5 |
| Calibrator (Gross) | 76.2   | 24.3   | 2.4    | 0.9    | 1.4    |
| Calibrator (Net)   | 393.6  | 136.9  | 10.3   | 6.6    | 14.2   |
|                    | 317.3  | 112.6  | 7.9    | 5.8    | 12.7   |

|                |     |       |        |
|----------------|-----|-------|--------|
|                | K % | U ppm | Th ppm |
| Concentrations | 0.0 | 0.0   | 44.3   |

#### Mixture Calibrator

|                    |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|
|                    | Gate 1 | Gate 2 | Gate 3 | Gate 4 | Gate 5 |
| Background         | 76.2   | 24.3   | 2.4    | 0.9    | 1.4    |
| Calibrator (Gross) | 943.2  | 372.0  | 38.7   | 12.7   | 15.6   |
| Calibrator (Net)   | 867.0  | 347.7  | 36.3   | 11.8   | 14.2   |

#### Field Calibration

##### Gamma Ray

|                    |          |                  |
|--------------------|----------|------------------|
|                    | Measured | Calibrated (API) |
| Background         | 111      | 22               |
| Calibrator (Gross) | 1380     | 272              |
| Calibrator (Net)   | 1270     | 250              |

#### Mixture Calibrator

|                    |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|
|                    | Gate 1 | Gate 2 | Gate 3 | Gate 4 | Gate 5 |
| Background         | 76.2   | 25.0   | 2.1    | 0.7    | 1.3    |
| Calibrator (Gross) | 937.1  | 372.4  | 37.3   | 13.2   | 15.5   |
| Calibrator (Net)   | 860.8  | 347.4  | 35.2   | 12.5   | 14.2   |

Spectral Gamma Constants SGS-E.J 171

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|                               |                 |       |
|-------------------------------|-----------------|-------|
| Background Calibrator Number  | 496             |       |
| Mixture Calibrator Number     | 525             |       |
| Potassium Calibrator Number   | 499             |       |
| Uranium Calibrator Number     | 505             |       |
| Thorium Calibrator Number     | 502             |       |
| Mud Density                   | 1.13            | gm/cc |
| Caliper Source for Processing | Density Caliper |       |
| Tool Position                 | Eccentred       |       |
| Concentration of KCl          |                 | kppm  |
| K Mud Type                    | Chloride        |       |
| K Mud Concentration           | 0.00            | %     |

## DOWNHOLE EQUIPMENT

C:\ProgramData\Weatherford\WLS 14.03\DATA\TAOS (THOMPSON 5-1)\DATA.dta

SHA-J.B Compact Swivel Head Adaptor

SHA-J.B 721 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma

MCG-D.K 441 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Spectral Gamma Ray Sub

SGS-E.J 171 LG: 7.78 ft WT: 105.8 lb OD: 3.543 in

Compact Micro-Resistivity

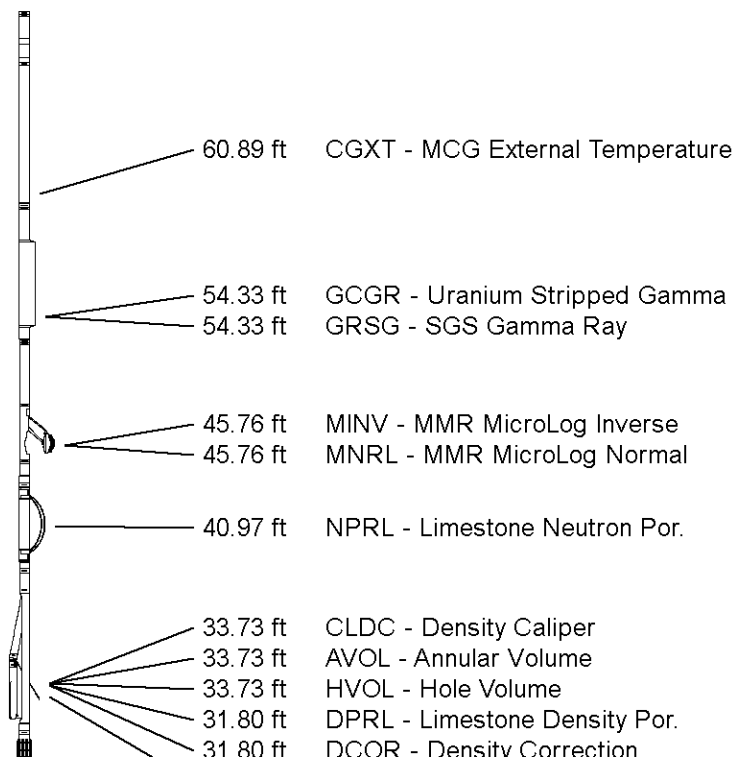
MMR-A 33 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

Compact Neutron

MDN-A.B 178 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper

MPD-C.J 396 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in



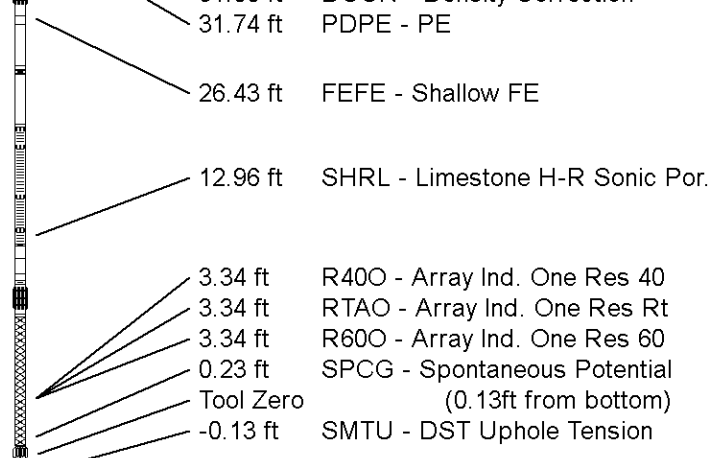


Compact Focussed Electric  
MFE-C.A 430 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Sonic  
MSS-A.A 101 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Induction  
MAI-A.A 166 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 71.38 ft Weight: 584.2 lb



|                 |                                  |
|-----------------|----------------------------------|
| COMPANY         | TAOS RESOURCES OPERATING COMPANY |
| WELL            | THOMSON 5-1                      |
| FIELD           | TISDALE GAS AREA                 |
| PROVINCE/COUNTY | COWLEY                           |
| COUNTRY/STATE   | U.S.A / KANSAS                   |

|                         |         |      |               |         |      |
|-------------------------|---------|------|---------------|---------|------|
| Elevation Kelly Bushing | 1247.00 | feet | First Reading | 3669.00 | feet |
| Elevation Drill Floor   | 1245.00 | feet | Depth Driller | 3680.00 | feet |
| Elevation Ground Level  | 1237.00 | feet | Depth Logger  | 3672.00 | feet |



COMPOSITE  
LOG

**Weatherford®**