



**Weatherford**

COMPOSITE LOG

|                                         |                 |              |                |                                                       |  |  |  |
|-----------------------------------------|-----------------|--------------|----------------|-------------------------------------------------------|--|--|--|
| COMPANY                                 |                 |              |                | TAOS RESOURCES OPERATING CO.                          |  |  |  |
| WELL                                    |                 |              |                | WMU #15                                               |  |  |  |
| FIELD                                   |                 |              |                | MADDIX NORTH                                          |  |  |  |
| PROVINCE/COUNTY                         |                 |              |                | COWLEY                                                |  |  |  |
| COUNTRY/STATE                           |                 |              |                | U.S.A. / KANSAS                                       |  |  |  |
| LOCATION                                |                 |              |                | 1485' FNL & 2475' FWL                                 |  |  |  |
| PERMIT NUMBER                           |                 |              |                | NE NE SE NW                                           |  |  |  |
| SEC 3                                   | TWP 33S         | RGE 5E       | Other Services |                                                       |  |  |  |
| LATITUDE                                |                 |              | NONE           |                                                       |  |  |  |
| API NUMBER                              |                 | 15-035-24540 |                | Elevations:<br>KB 1312.00<br>DF 1310.00<br>GL 1302.00 |  |  |  |
| Permanent Datum GL, Elevation 1302 feet |                 |              |                |                                                       |  |  |  |
| Log Measured From KB                    |                 |              |                |                                                       |  |  |  |
| Drilling Measured From KB               |                 |              |                |                                                       |  |  |  |
| Date                                    | 06-NOV-2013     |              |                |                                                       |  |  |  |
| Run Number                              | ONE             |              |                |                                                       |  |  |  |
| Service Order                           | 3542081         |              |                |                                                       |  |  |  |
| Depth Driller                           | 3650.00         |              |                | feet                                                  |  |  |  |
| Depth Logger                            | 3637.00         |              |                | feet                                                  |  |  |  |
| First Reading                           | 3634.00         |              |                | feet                                                  |  |  |  |
| Last Reading                            | 264.00          |              |                | feet                                                  |  |  |  |
| Casing Driller                          | 265.00          |              |                | feet                                                  |  |  |  |
| Casing Logger                           | 264.00          |              |                | feet                                                  |  |  |  |
| Bit Size                                | 7.875           |              |                | inches                                                |  |  |  |
| Hole Fluid Type                         | CHEMICAL        |              |                |                                                       |  |  |  |
| Density / Viscosity                     | 9.50 lb/USg     |              | 35.00 CP       |                                                       |  |  |  |
| PH / Fluid Loss                         | 9.50            |              | 12.80 ml/30Min |                                                       |  |  |  |
| Sample Source                           | MUD PIT         |              |                |                                                       |  |  |  |
| Rm @ Measured Temp                      | 1.10 @ 71.0     |              |                | ohm-m                                                 |  |  |  |
| Rmf @ Measured Temp                     | 0.88 @ 71.0     |              |                | ohm-m                                                 |  |  |  |
| Rmc @ Measured Temp                     | 1.32 @ 71.0     |              |                | ohm-m                                                 |  |  |  |
| Source Rmf / Rmc                        | CALC            |              | CALC           |                                                       |  |  |  |
| Rm @ BHT                                | 0.70 @111.0     |              |                | ohm-m                                                 |  |  |  |
| Time Since Circulation                  | 4 HOURS         |              |                |                                                       |  |  |  |
| Max Recorded Temp                       | 111.00          |              | deg F          |                                                       |  |  |  |
| Equipment / Base                        | 13379           |              | OKC            |                                                       |  |  |  |
| Recorded By                             | AXEL HANNENBERG |              |                |                                                       |  |  |  |
| Witnessed By                            | DAVID GRIFFITH  |              |                |                                                       |  |  |  |

|             |         |
|-------------|---------|
| Elevations: | feet    |
| KB          | 1312.00 |
| DF          | 1310.00 |
| GL          | 1302.00 |

BOREHOLE RECORD

Last Edited: 06-NOV-2013 13:29

|                    |                    |                  |
|--------------------|--------------------|------------------|
| Bit Size<br>inches | Depth From<br>feet | Depth To<br>feet |
| 7.875              | 265.00             | 3650.00          |

CASING RECORD

|         |                |                    |                    |                     |
|---------|----------------|--------------------|--------------------|---------------------|
| Type    | Size<br>inches | Depth From<br>feet | Shoe Depth<br>feet | Weight<br>pounds/ft |
| SURFACE | 8.625          | 0.00               | 265.00             | 24.00               |

REMARKS

WLS 13.06.9804

DEPTH CONTROL: CALIBRATED MEASURING WHEEL

TOOLS RAN: MCG, MMR, MDN, MPD, MFE, MSS, MAI RAN IN COMBINATION

HARDWARE:

MAI: TWO 0.5 INCH STANDOFFS USED.

MFE: ONE 0.5 INCH STANDOFF USED.

MDN: DUAL NEUTRON BOW SPRINGS USED.

MPD: 8 INCH PROFILE PLATE USED.

MSS: THREE 0.5 INCH STANDOFFS USED.

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 1400 CU.FT.

ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING = 840 CU.FT.

SERVICE ORDER # 3542081

RIG: FOSSIL DRILLING #2

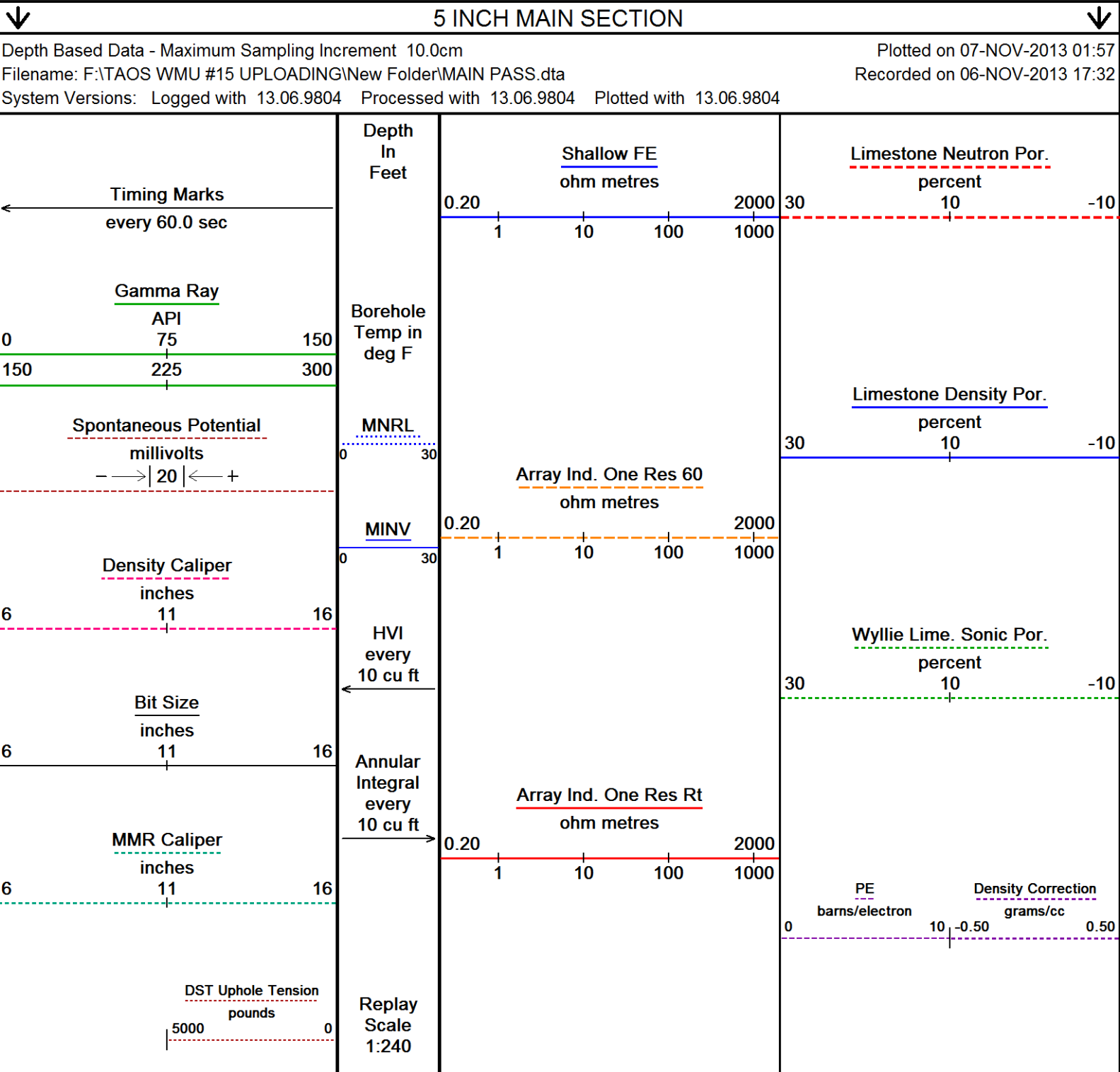
OPERATOR(S): P. BURGER

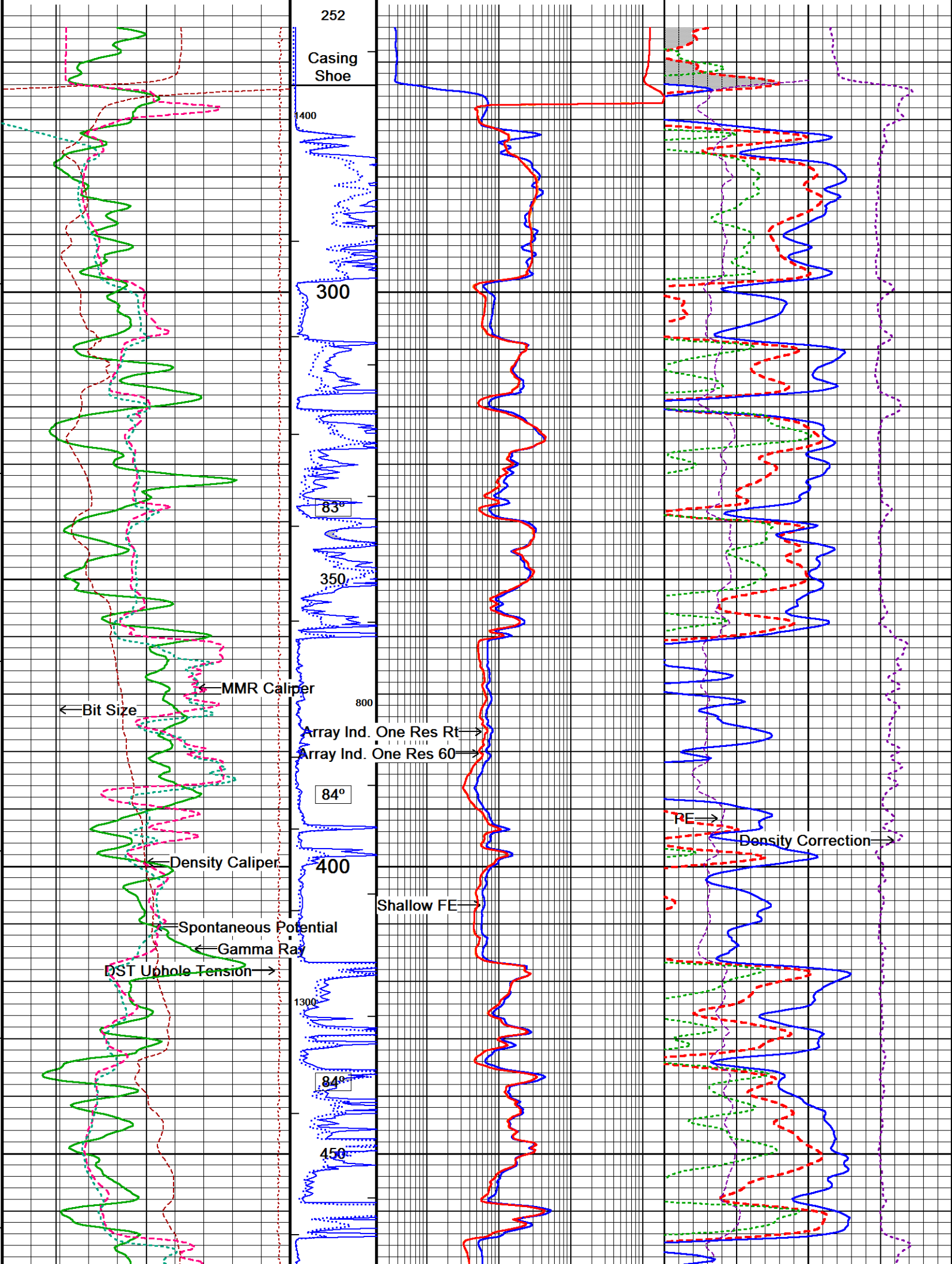
CHLORIDES: 1200 PPM

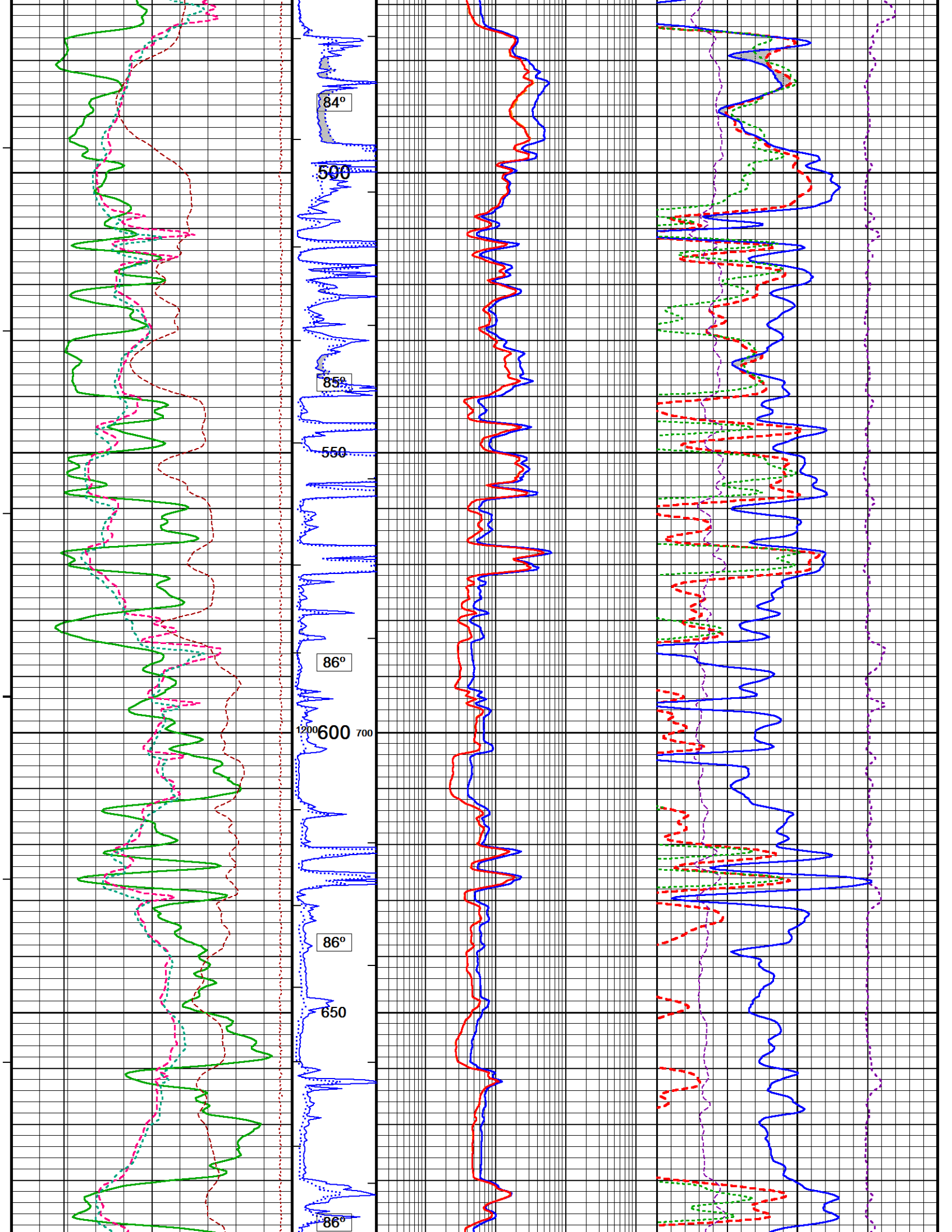
560' (3077'-3637') OF HI-RESOLUTION LOG WAS RUN AS PER CUSTOMER REQUEST.  
WELL TEMPERATURE INCREASED NEAR TD BETWEEN SUBSEQUENT RUNS.

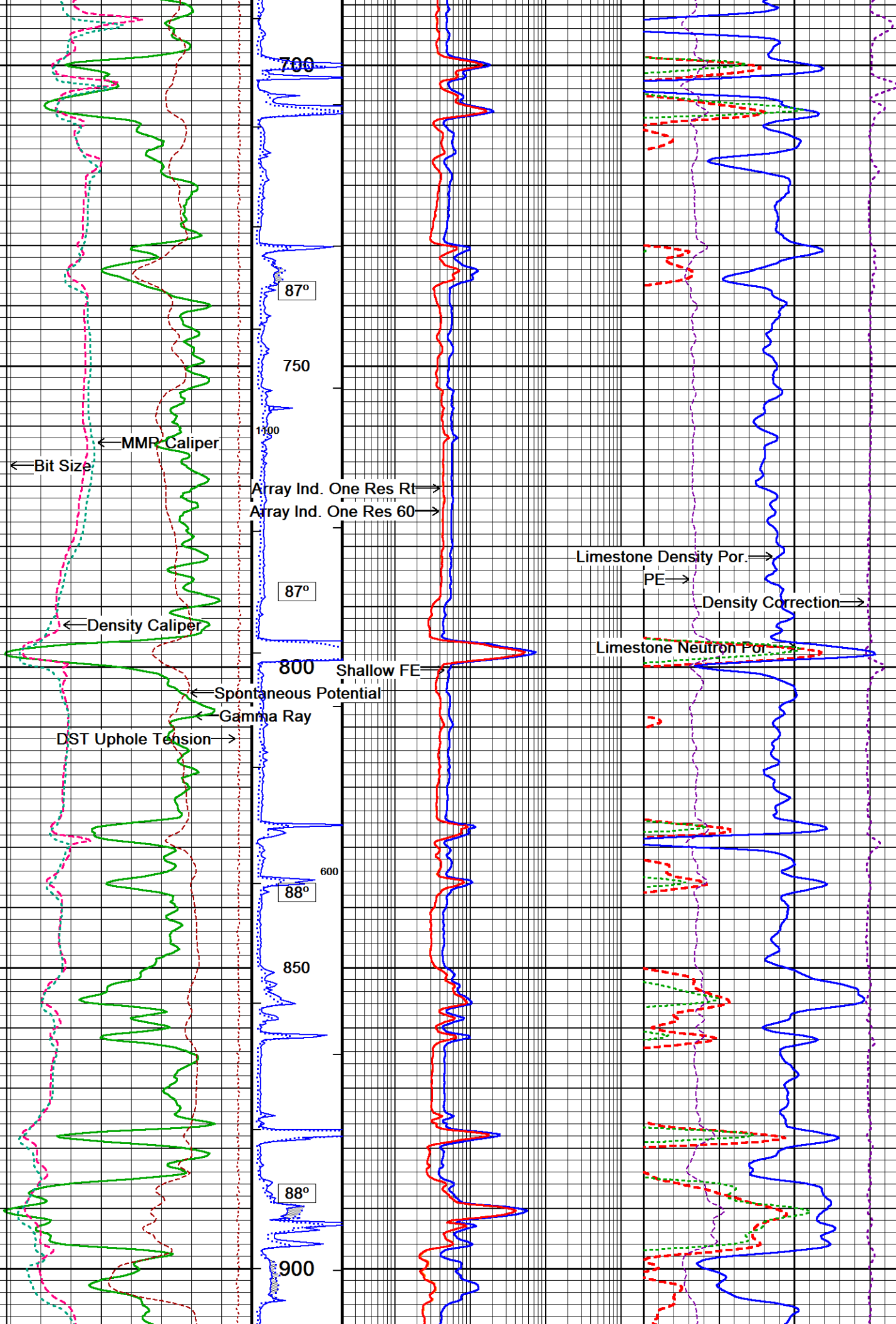
\*HOLE WASHOUTS AND RUGOSITY WILL AFFECT LOG QUALITY AND REPEATABILITY\*

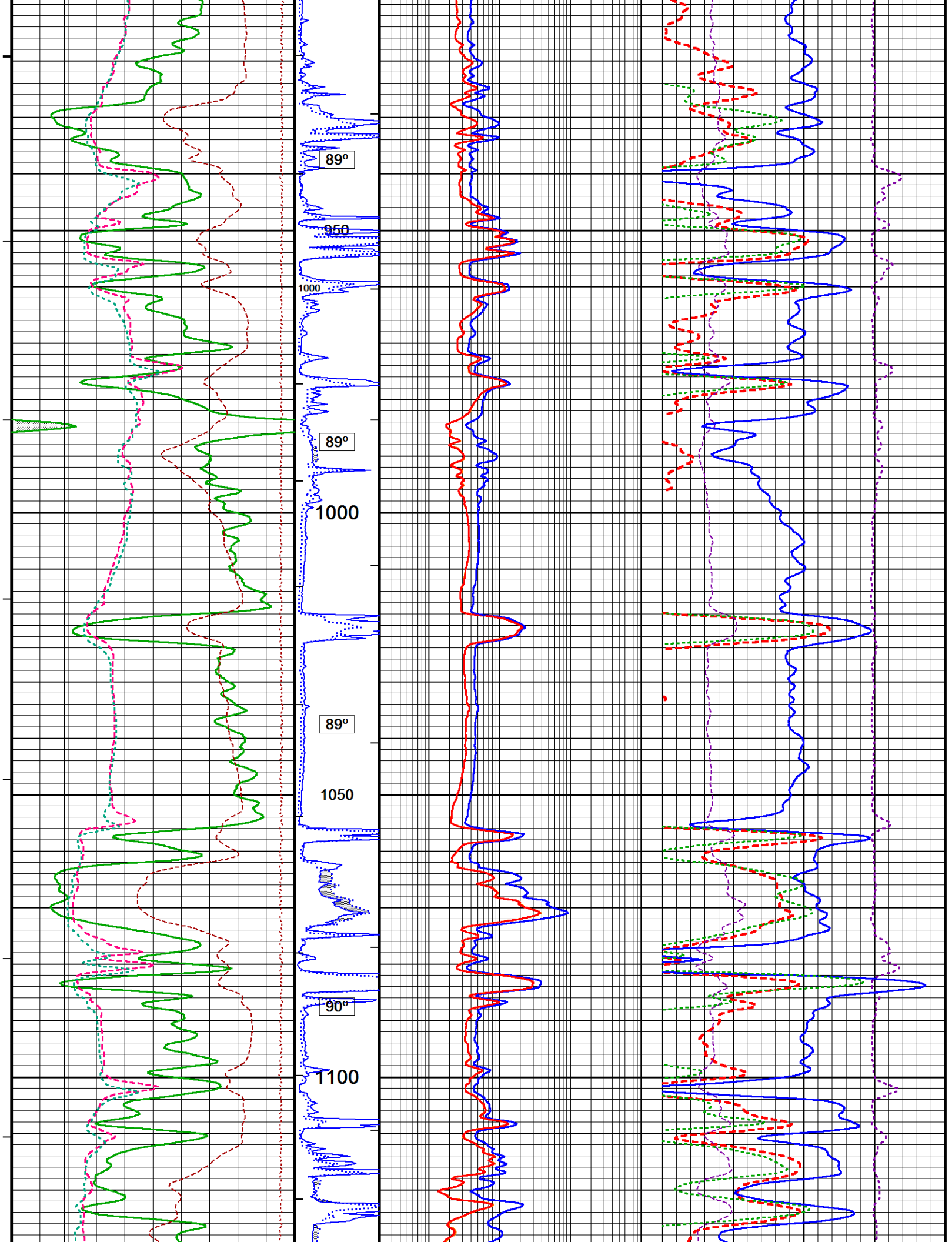
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

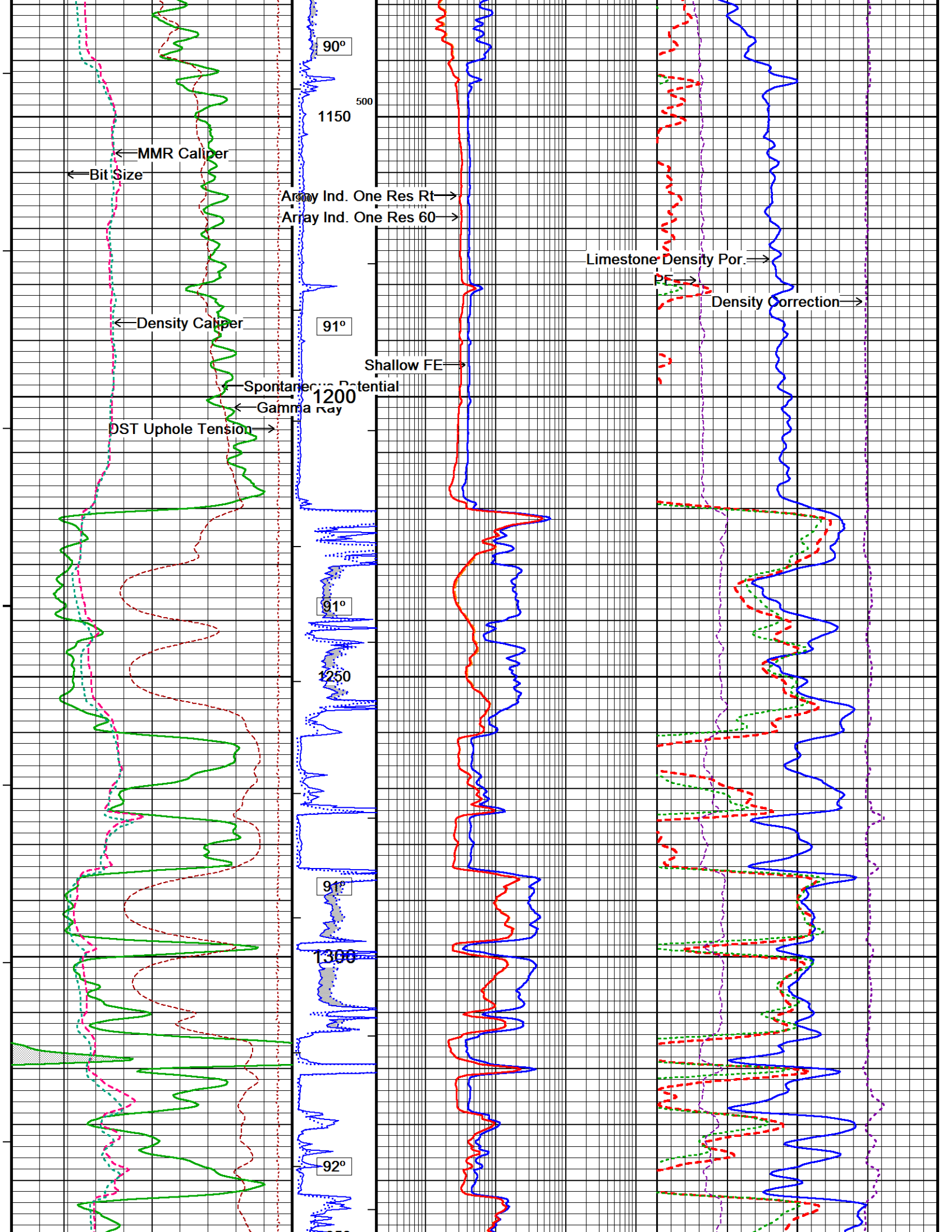


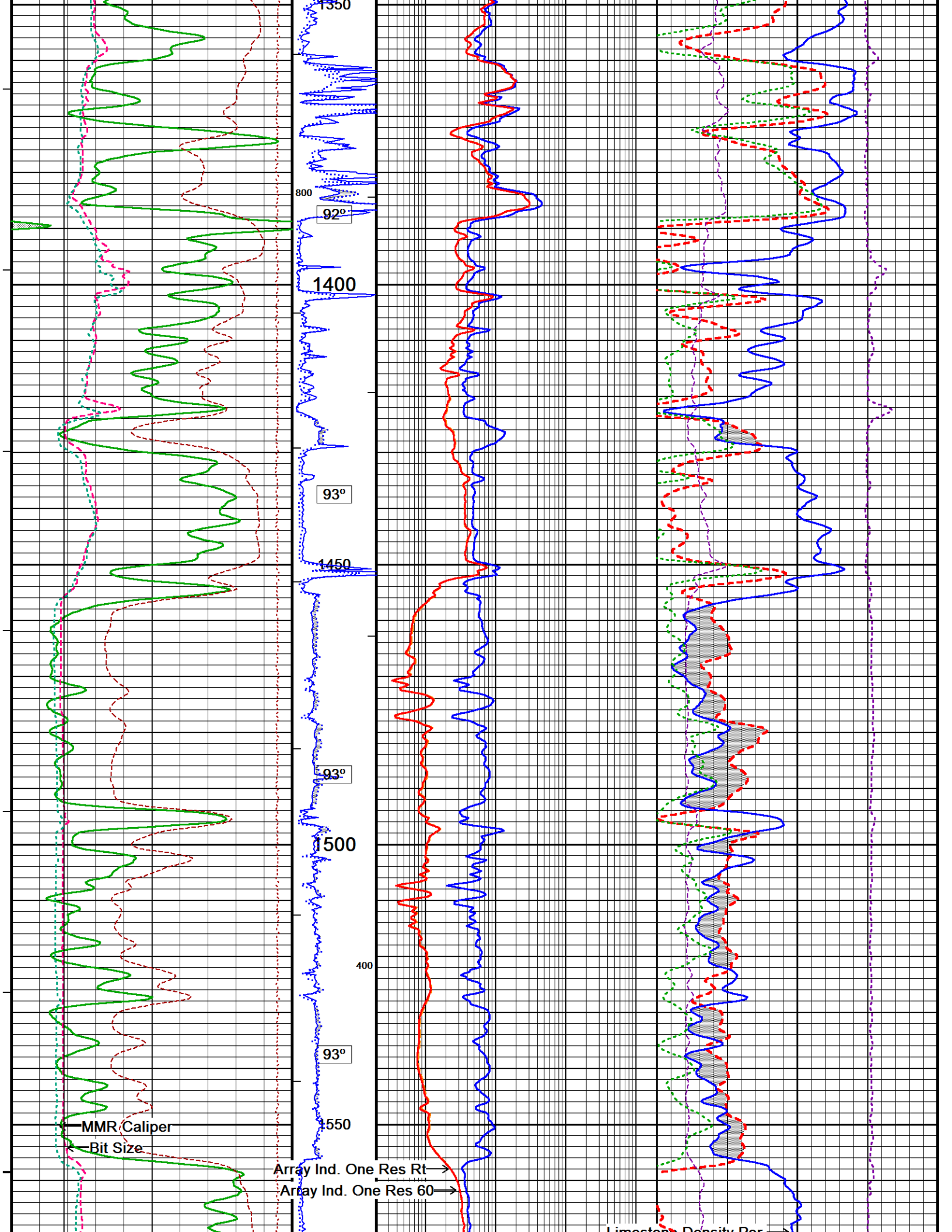


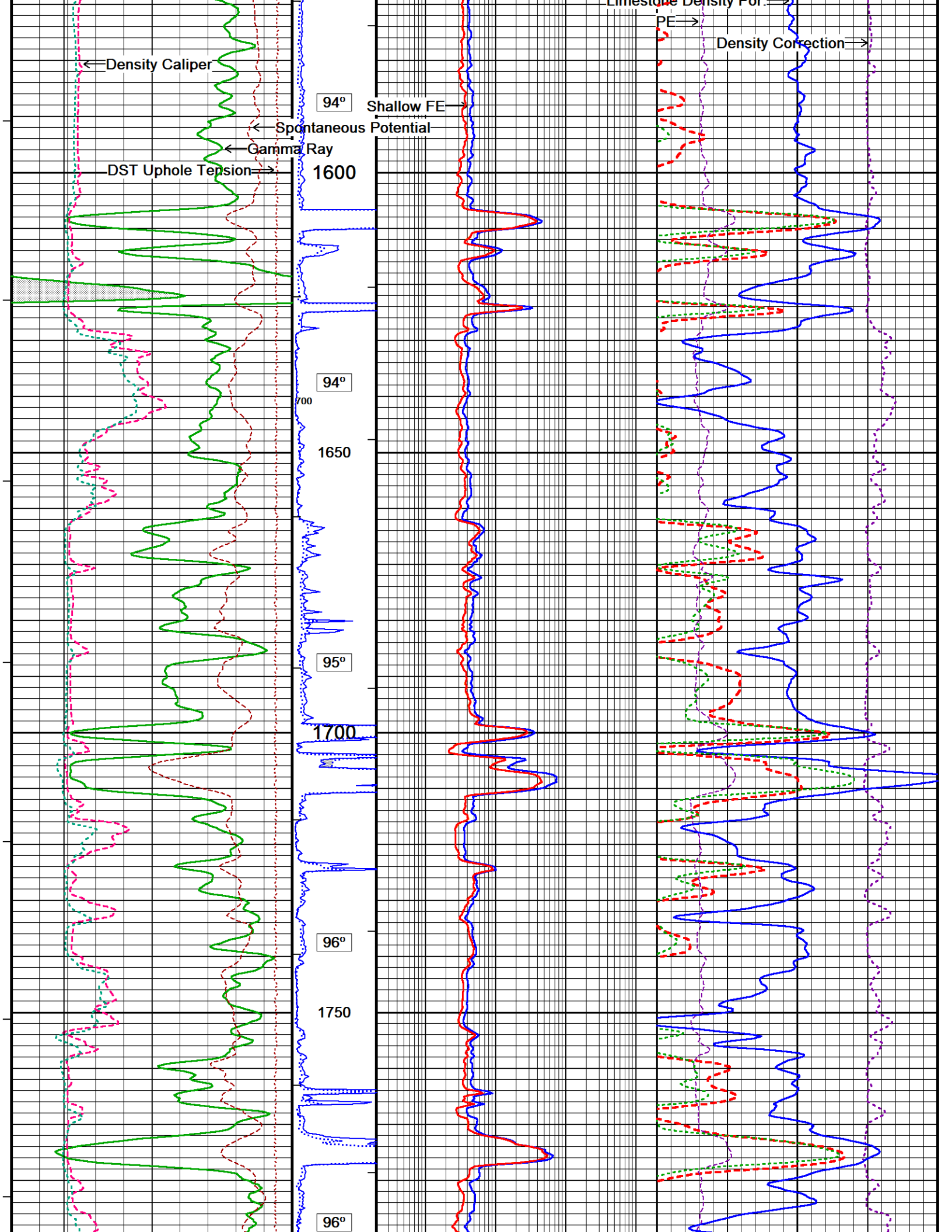


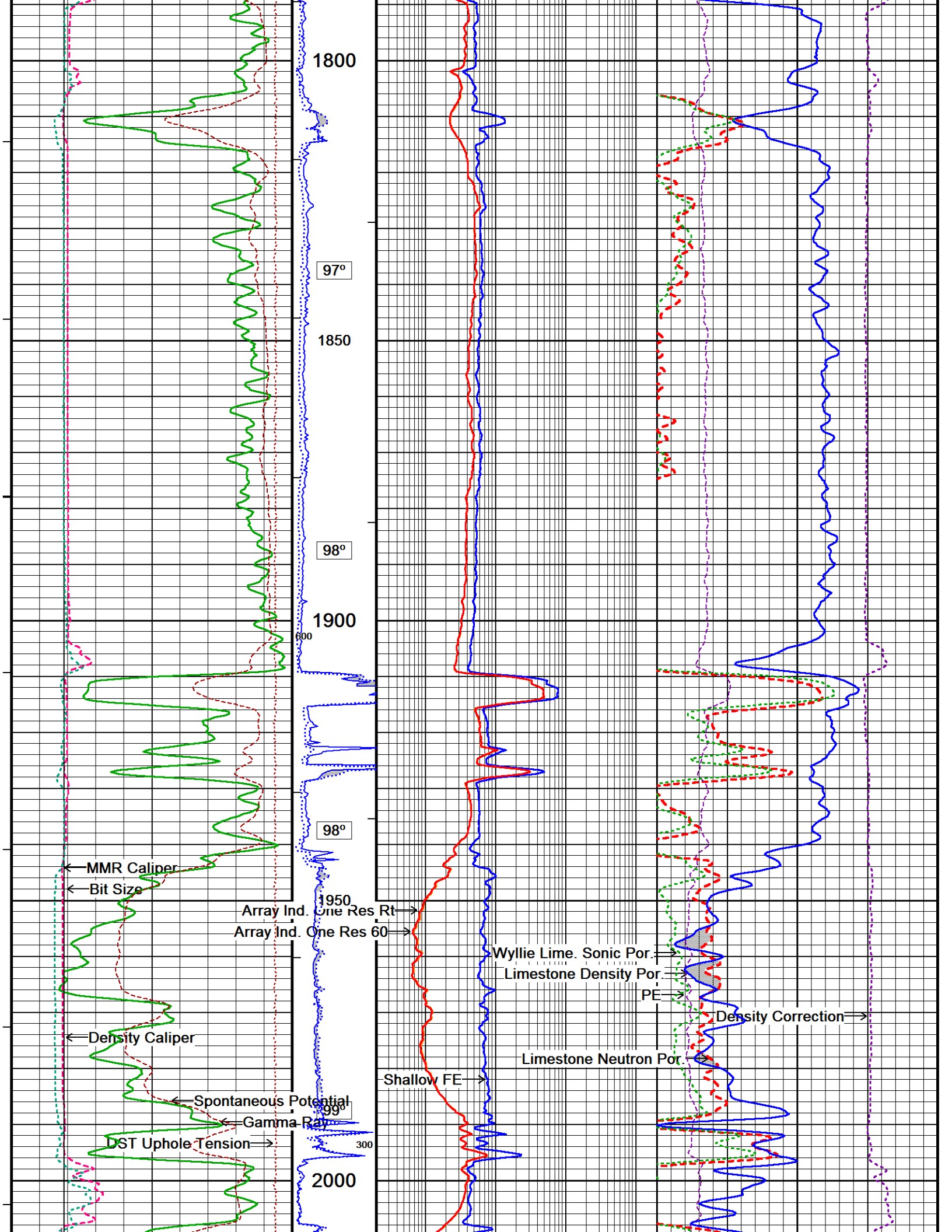


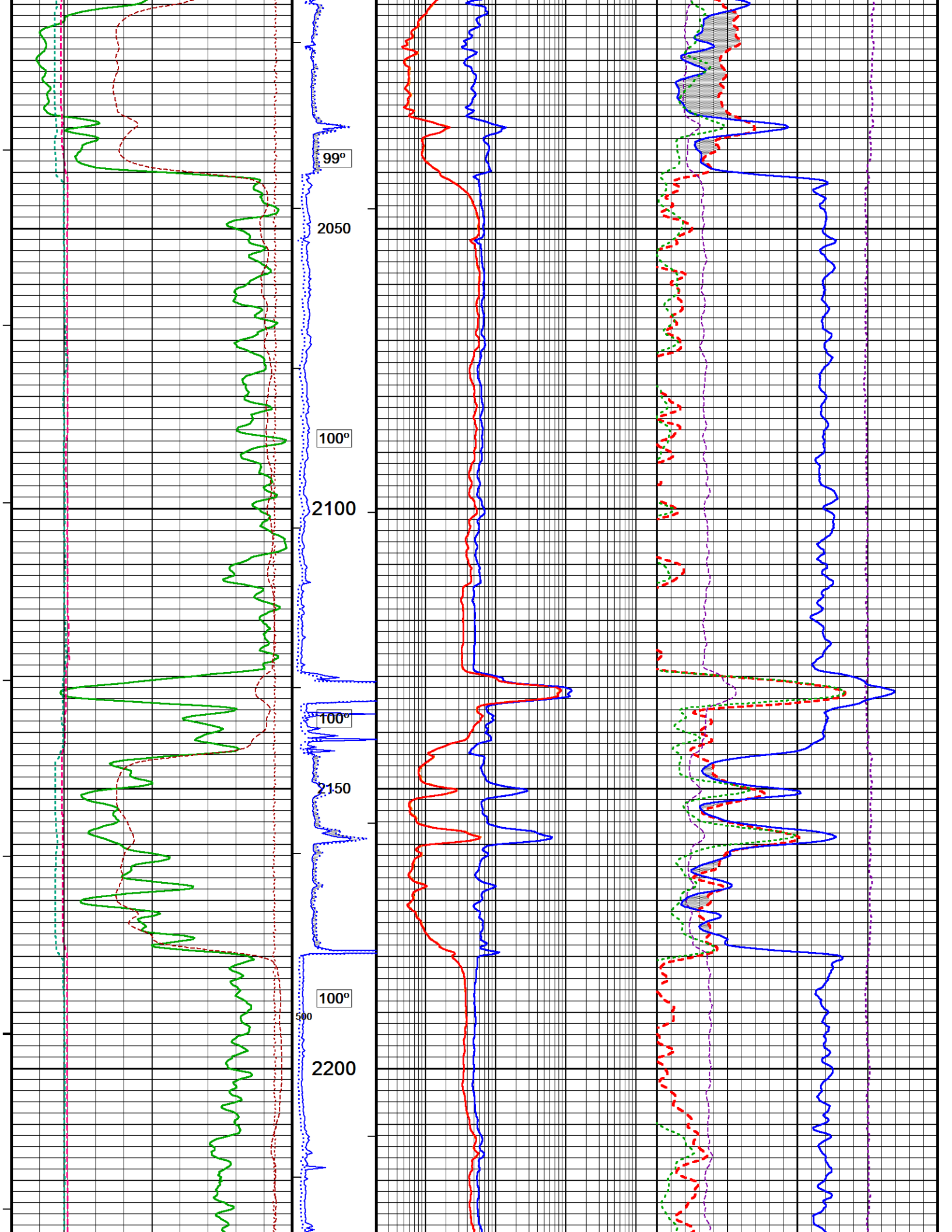


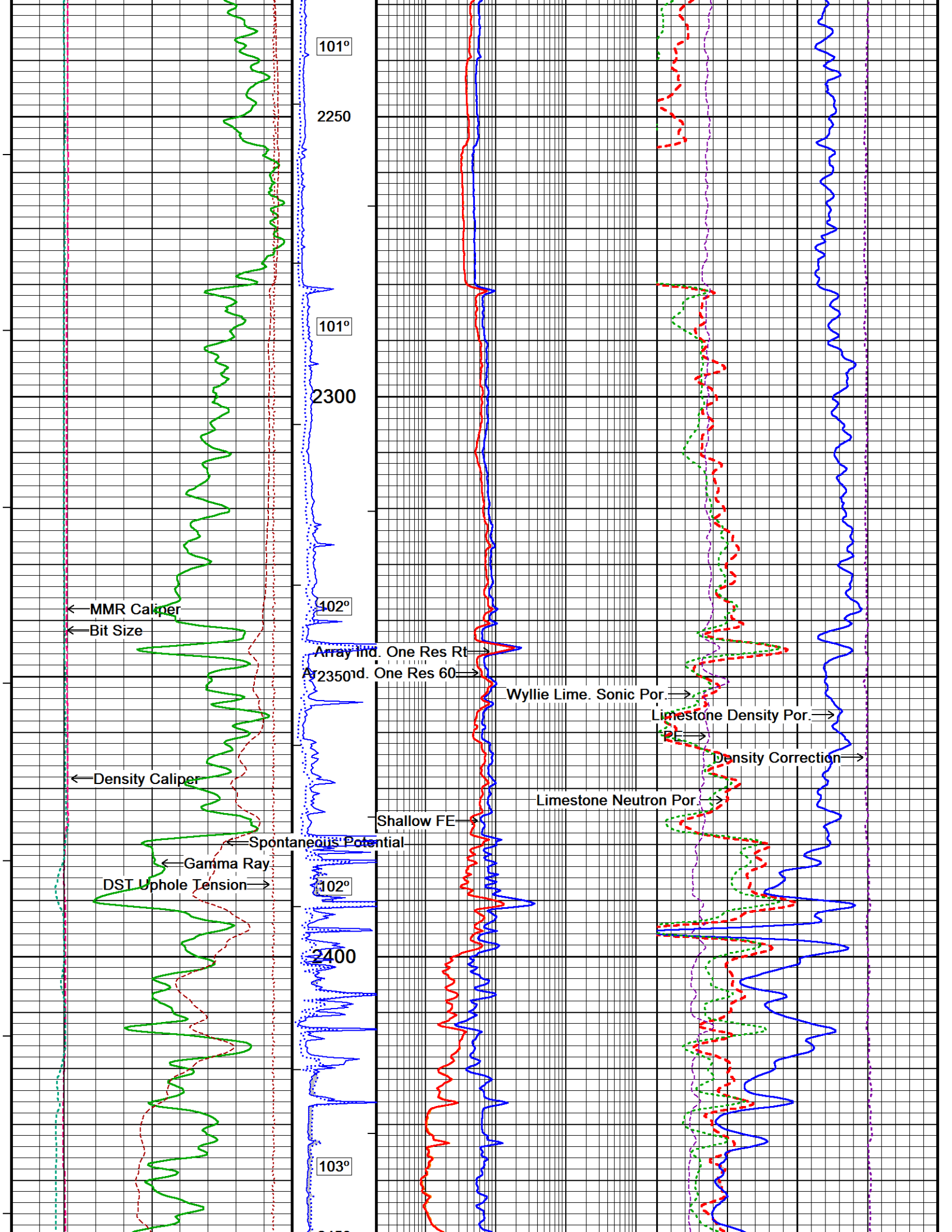


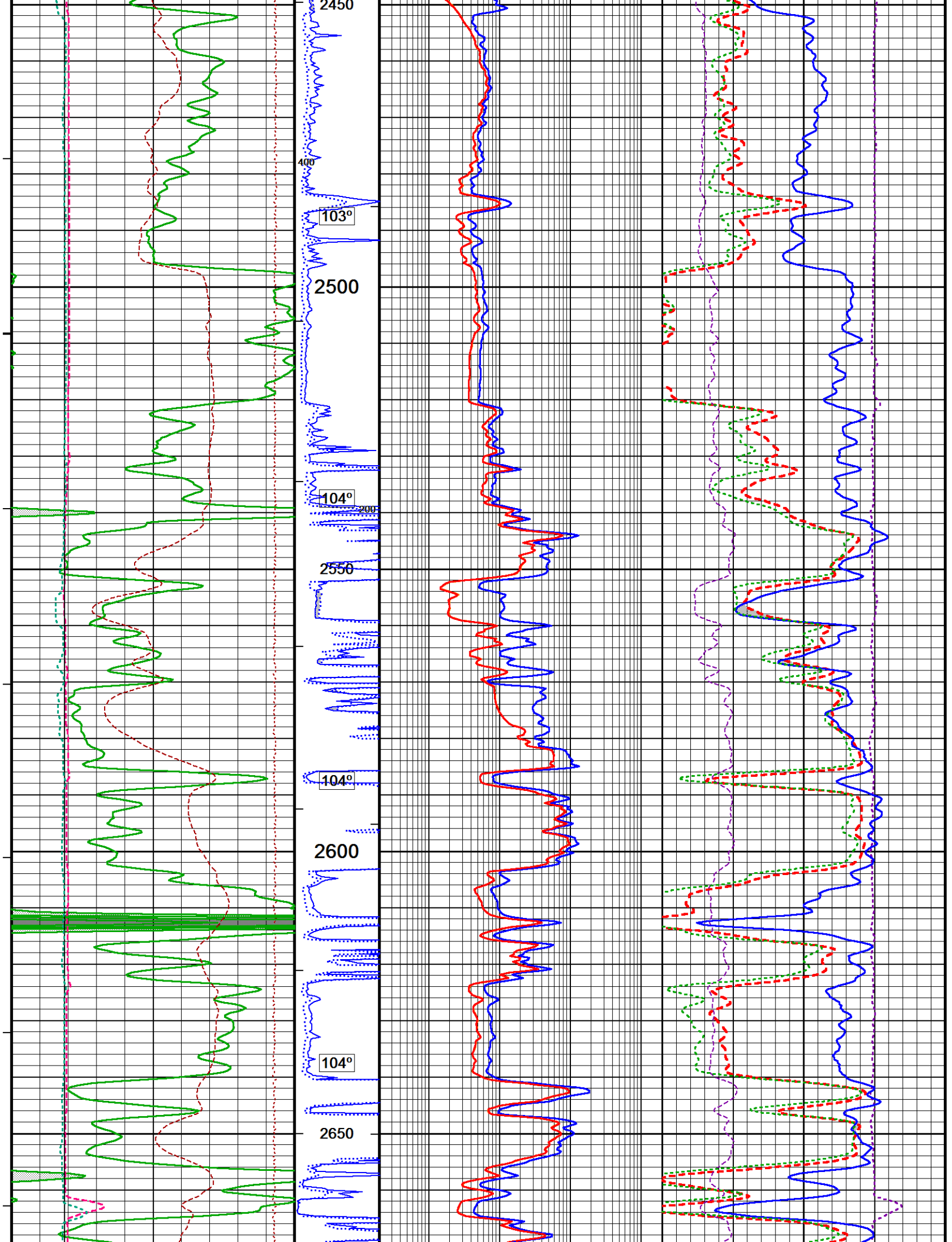


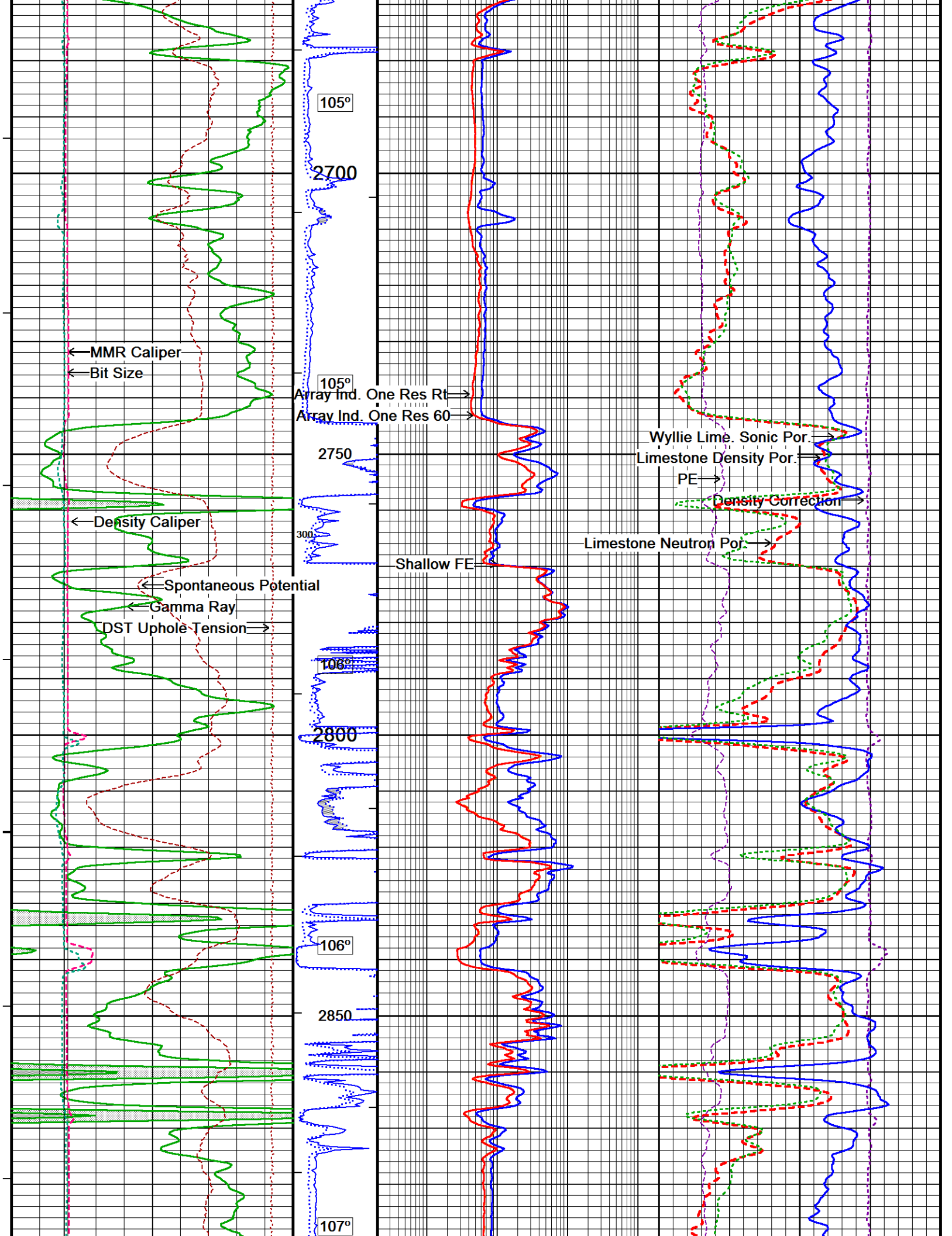


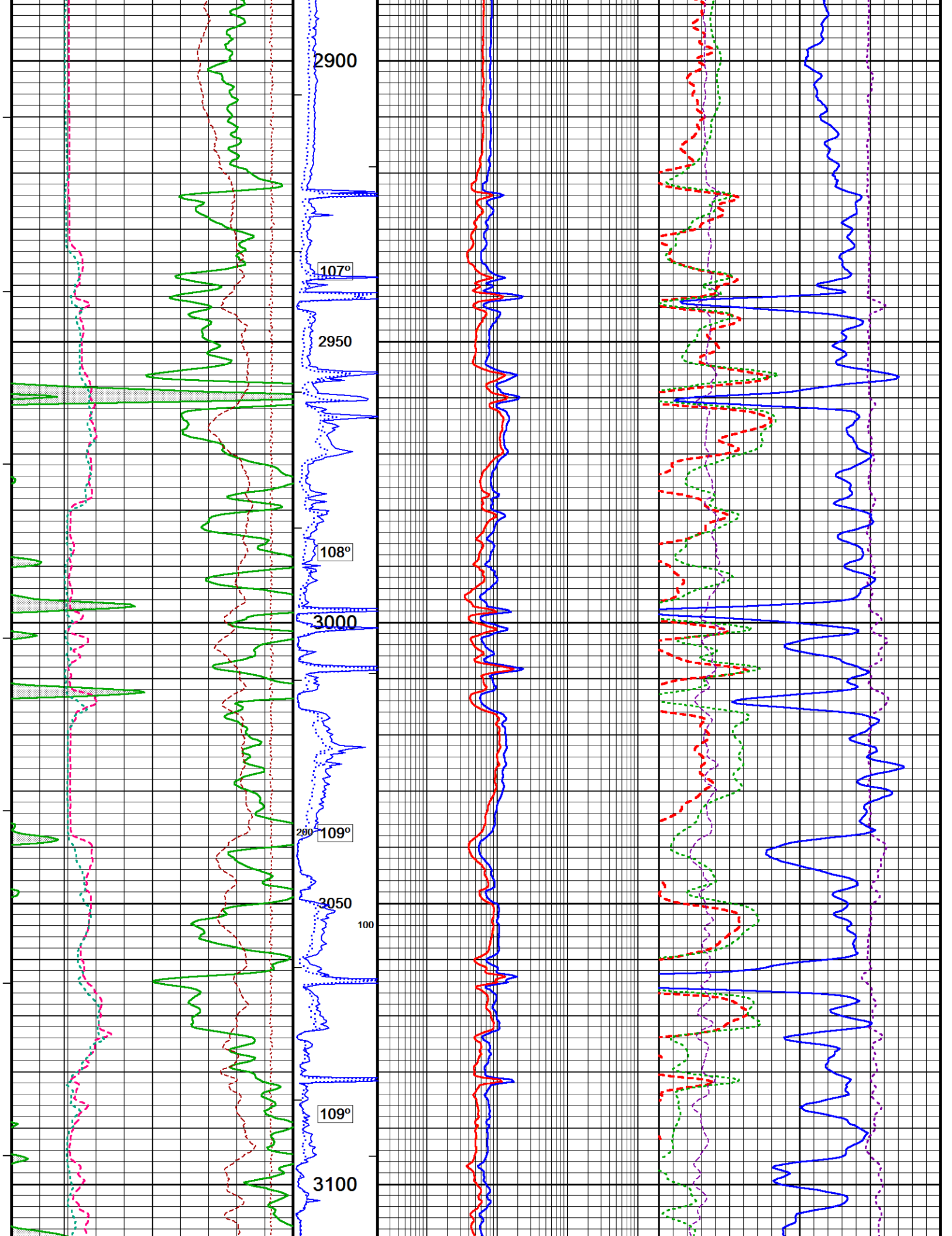


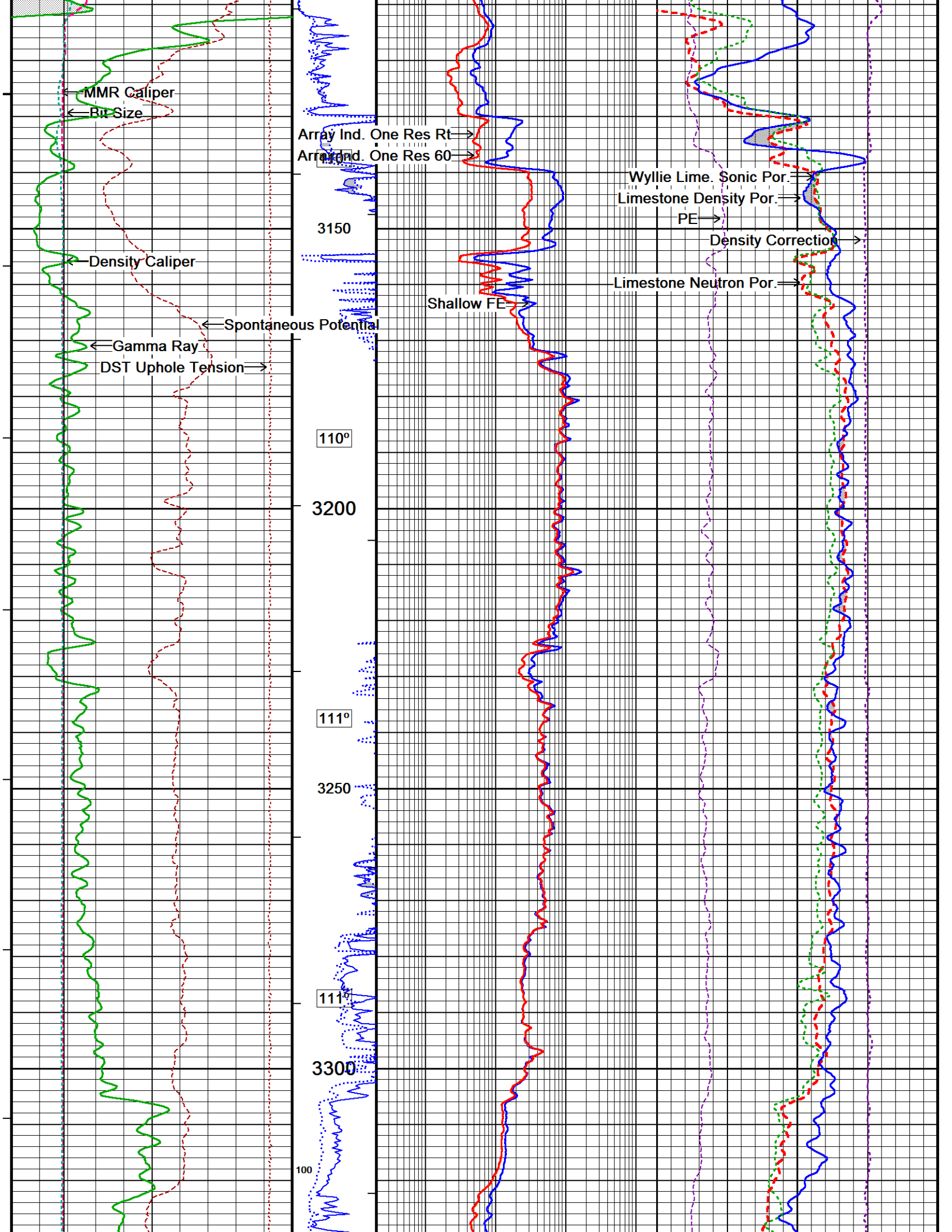


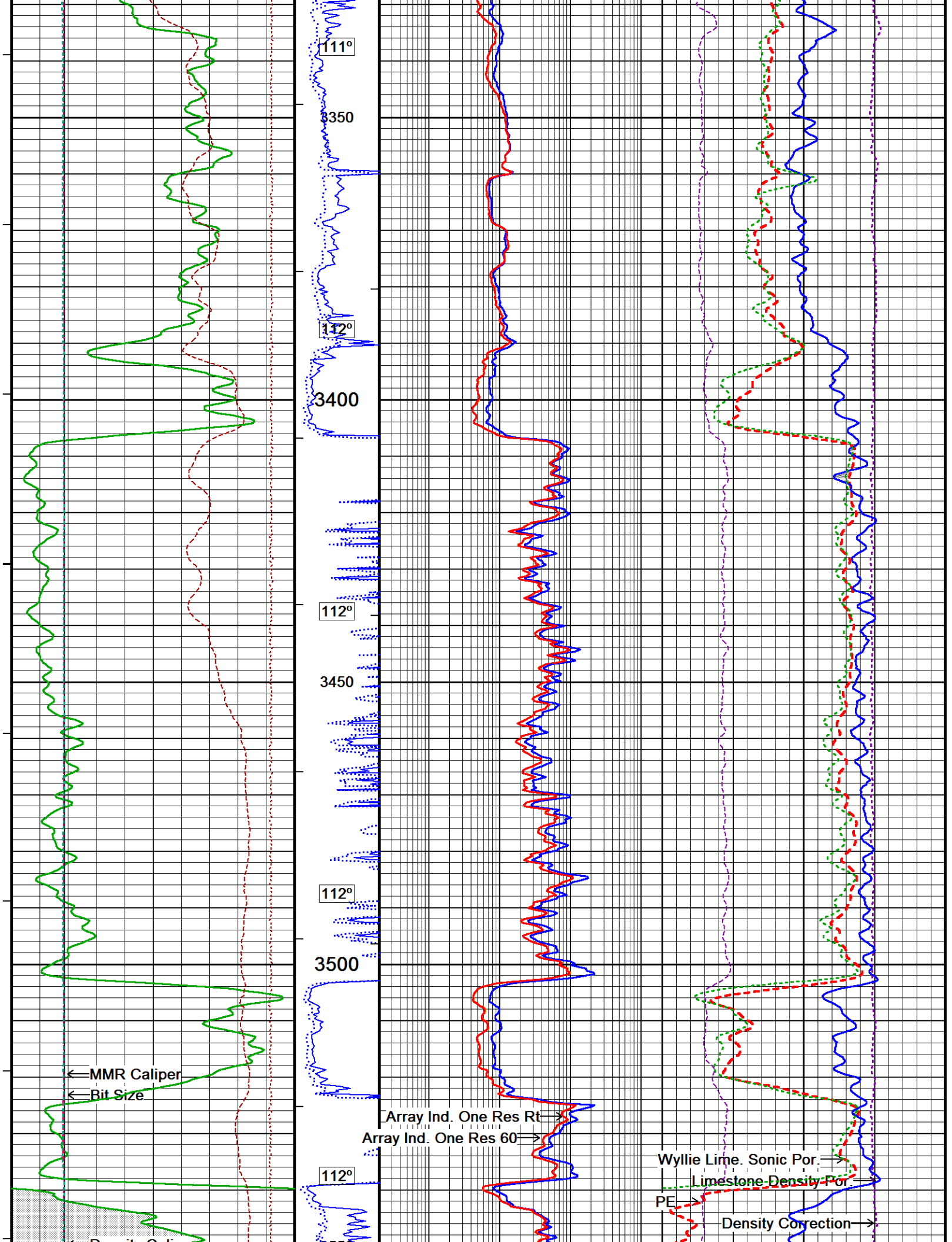


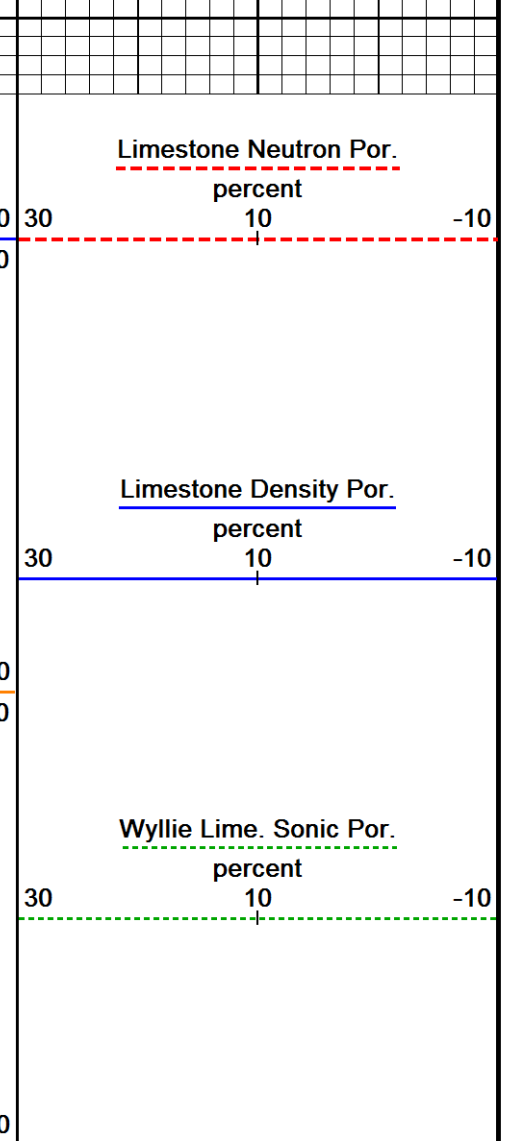
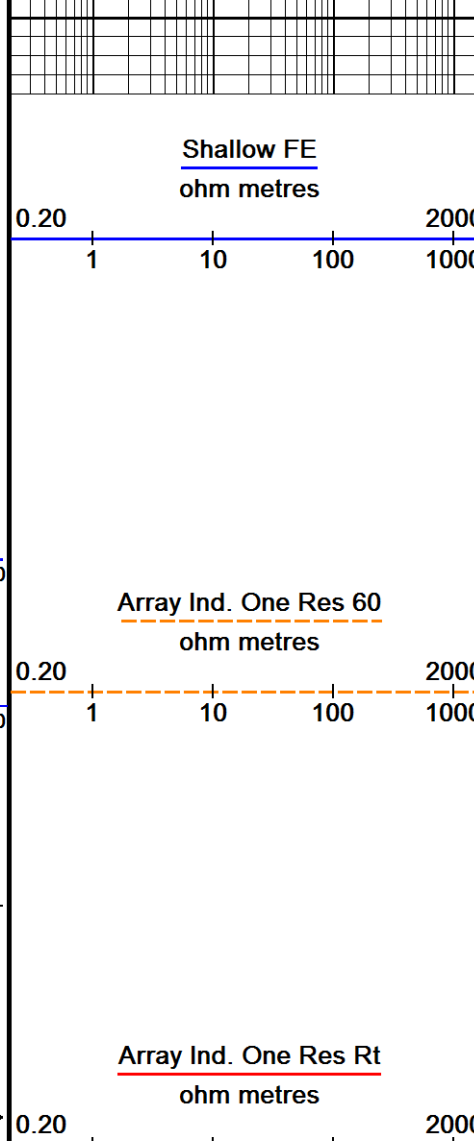
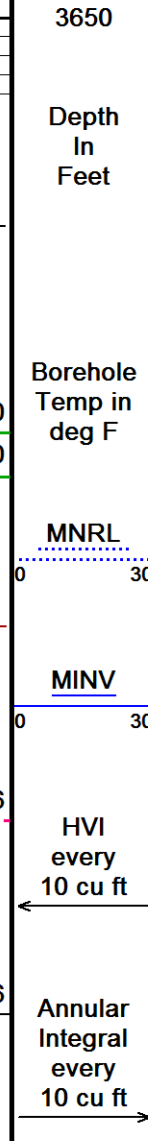
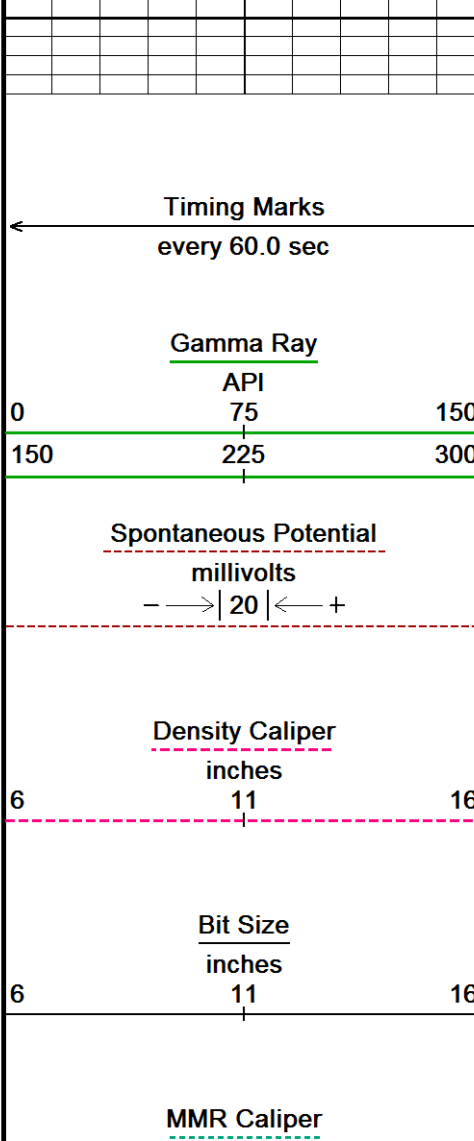
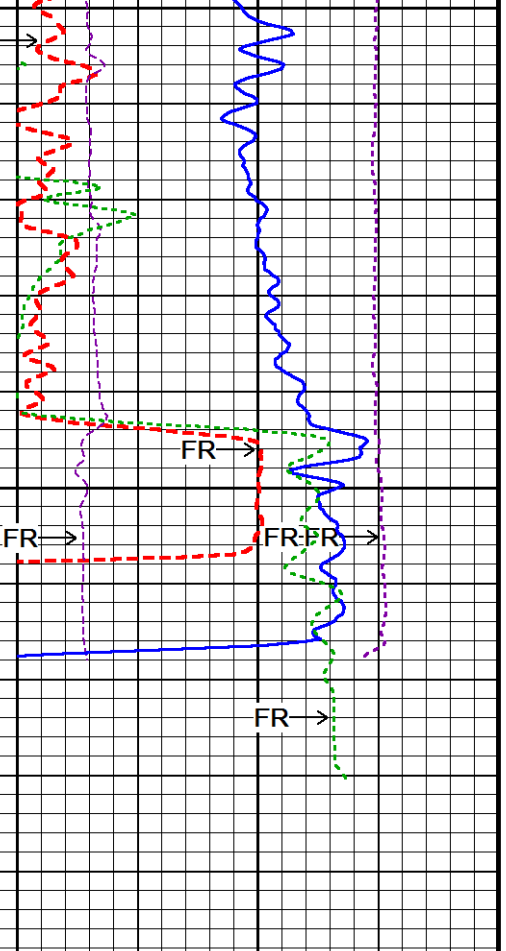
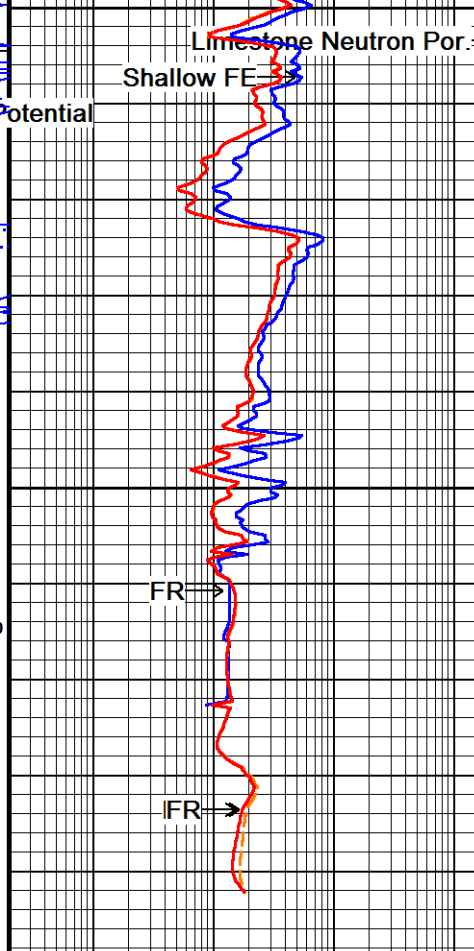
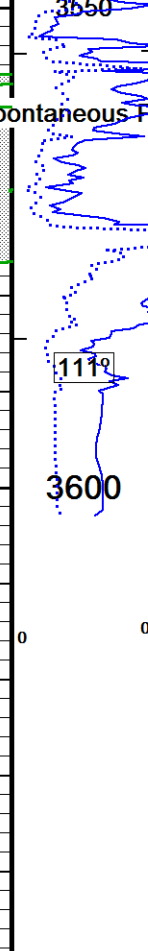
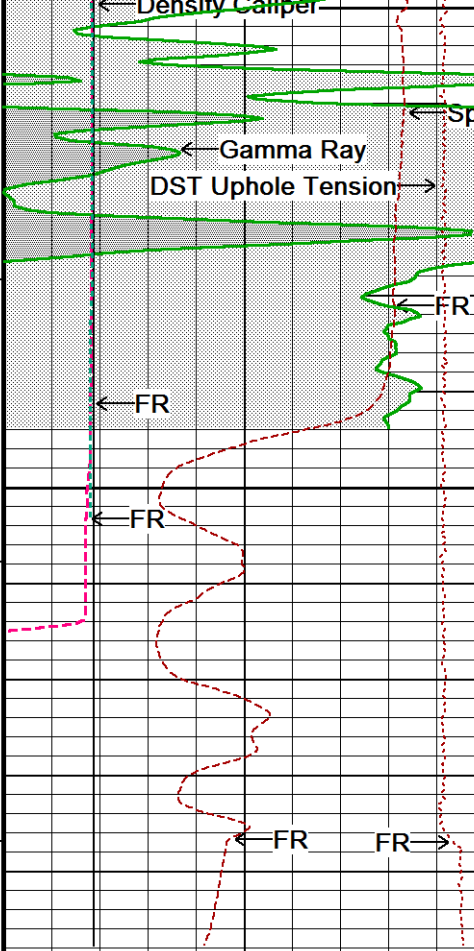


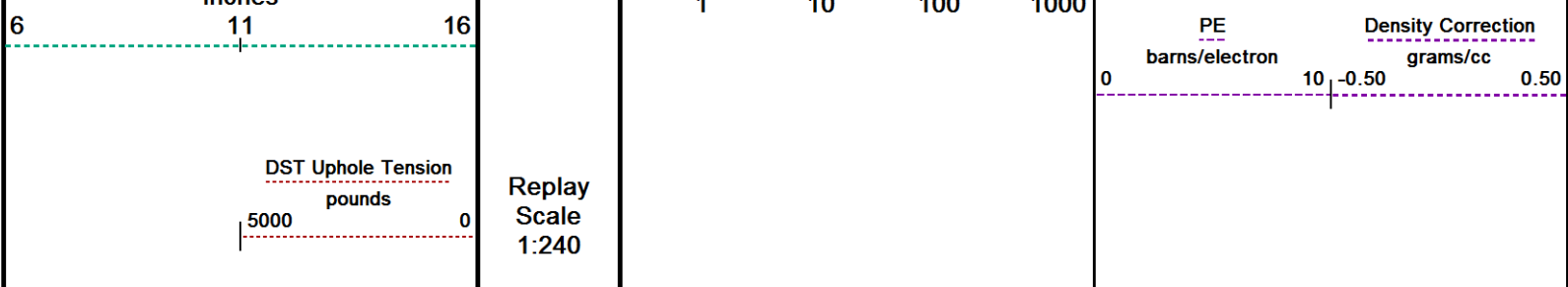












Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: F:\TAOS WMU #15 UPLOADING\New Folder\MAIN PASS.dta  
System Versions: Logged with 13.06.9804 Processed with 13.06.9804 Plotted with 13.06.9804

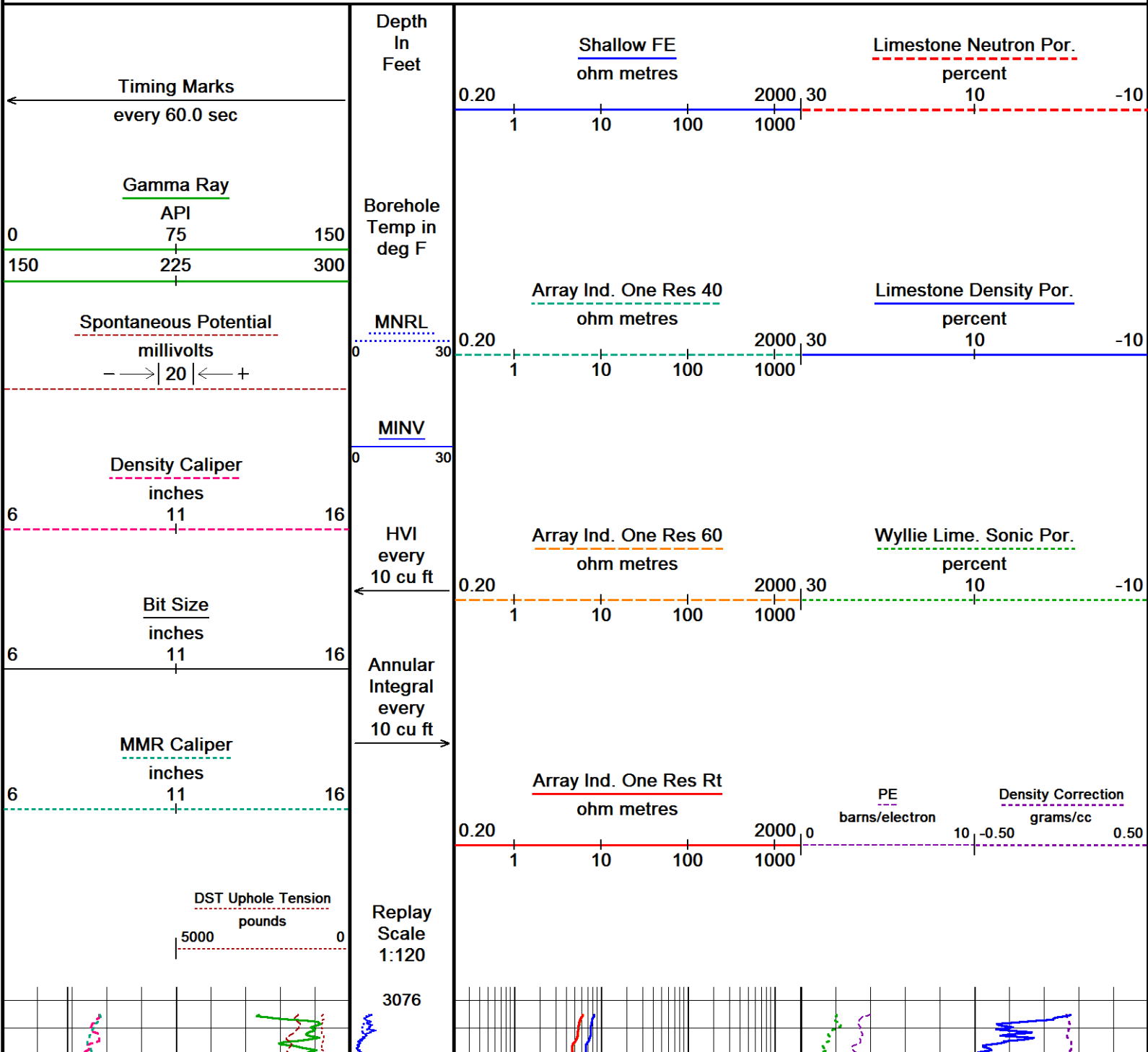
Plotted on 07-NOV-2013 01:57  
Recorded on 06-NOV-2013 17:32

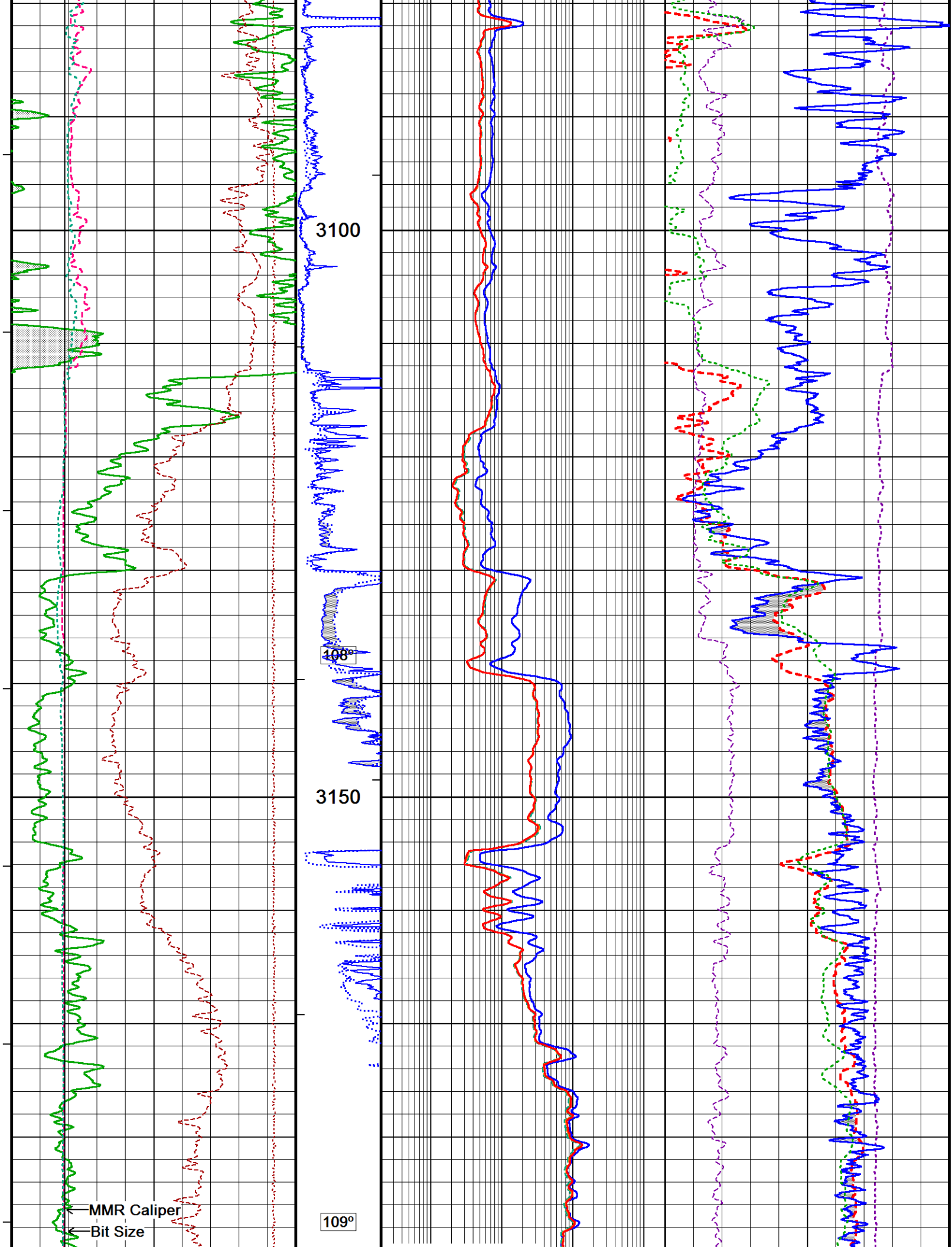
5 INCH MAIN SECTION

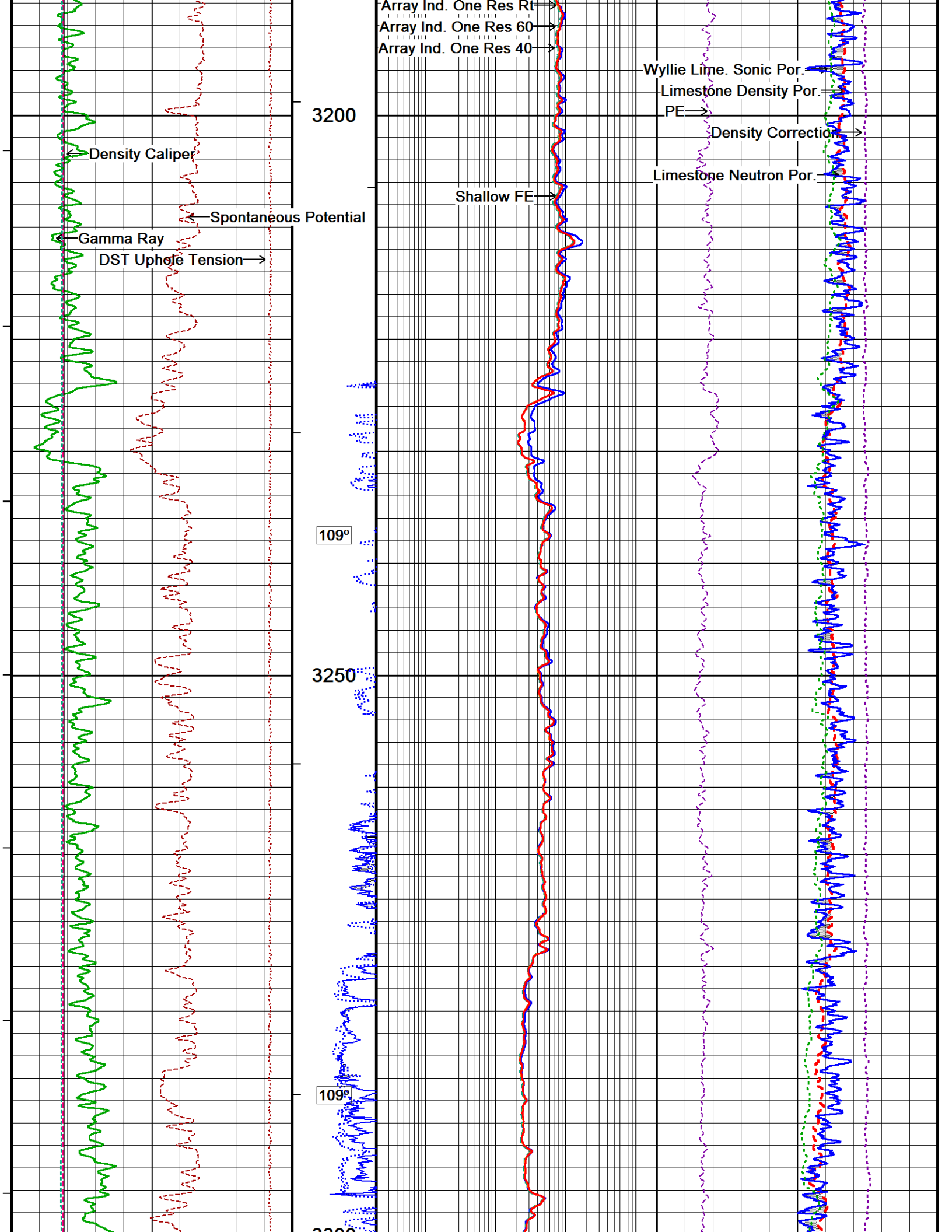
HIGH RESOLUTION SECTION

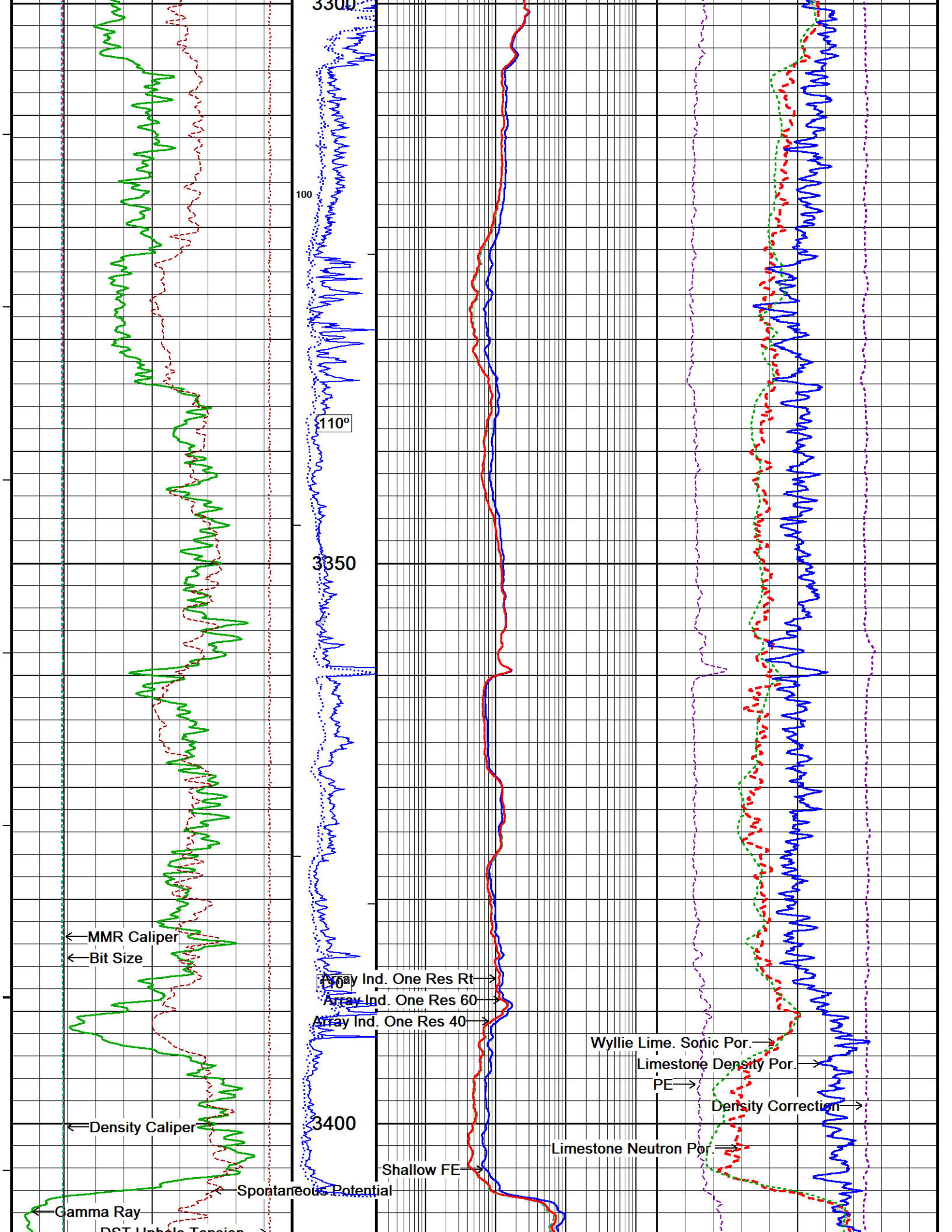
Depth Based Data - Maximum Sampling Increment 2.5cm  
Filename: F:\TAOS WMU #15 UPLOADING\New Folder\HI-RESOLUTION PASS.dta  
System Versions: Logged with 13.06.9804 Processed with 13.06.9804 Plotted with 13.06.9804

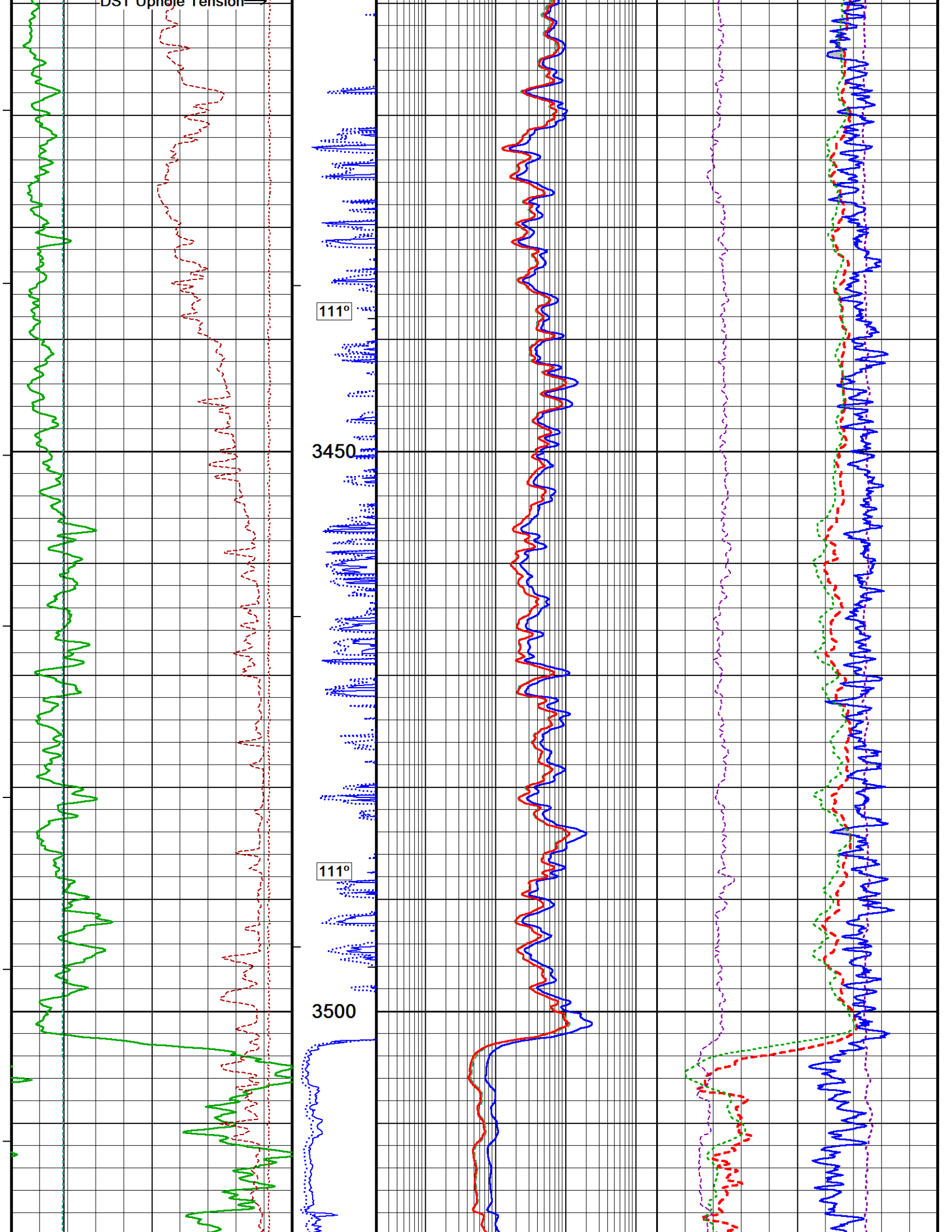
Plotted on 07-NOV-2013 01:57  
Recorded on 06-NOV-2013 16:46

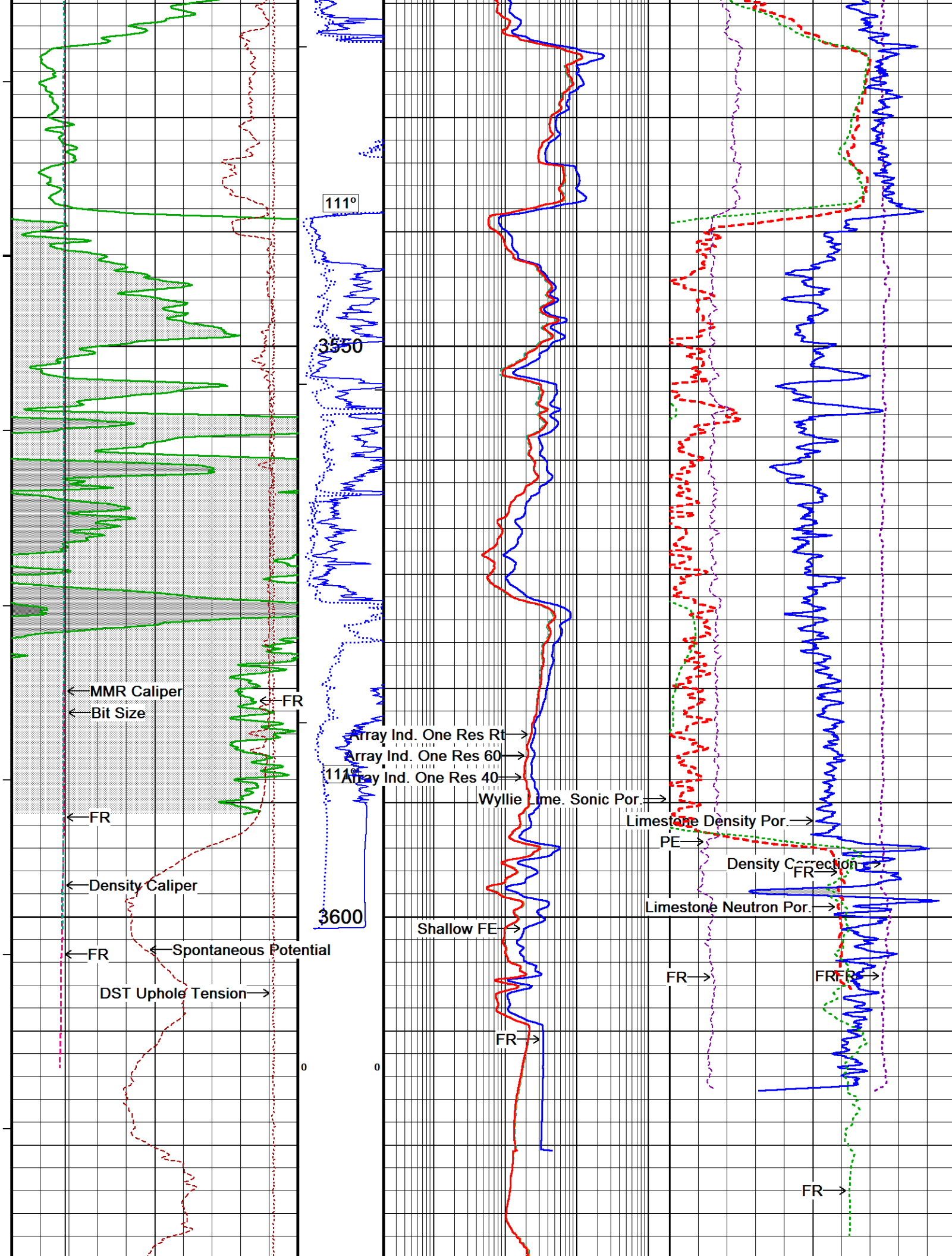


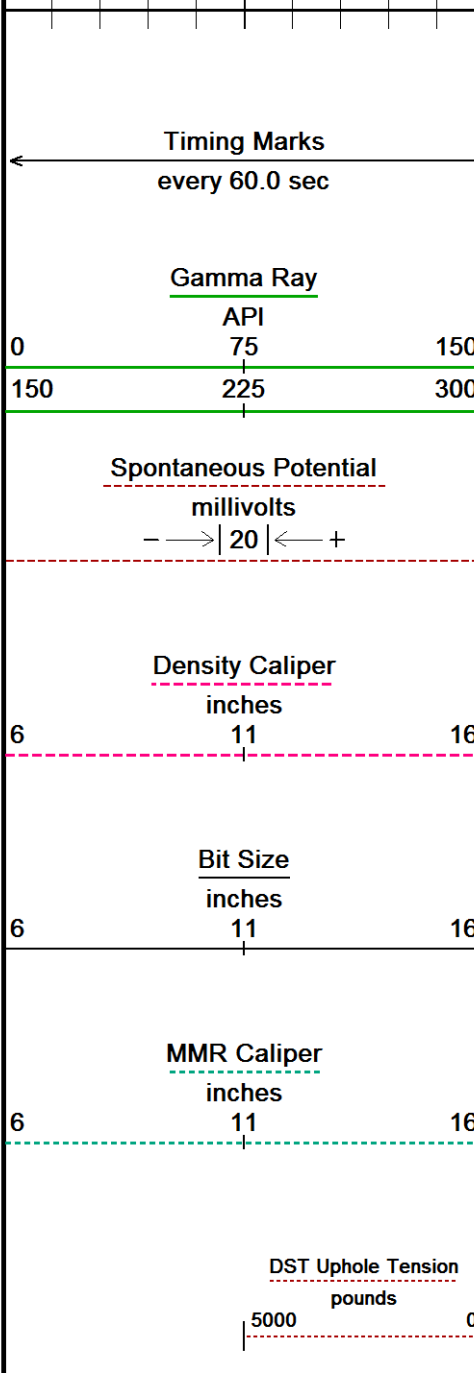
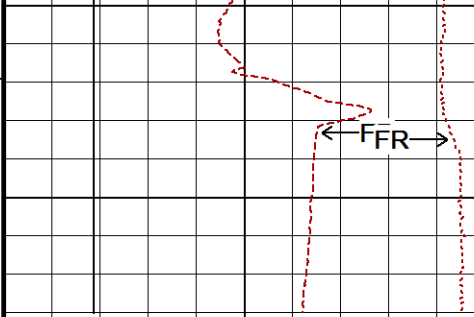












3650  
Depth  
In  
Feet

Borehole  
Temp in  
deg F

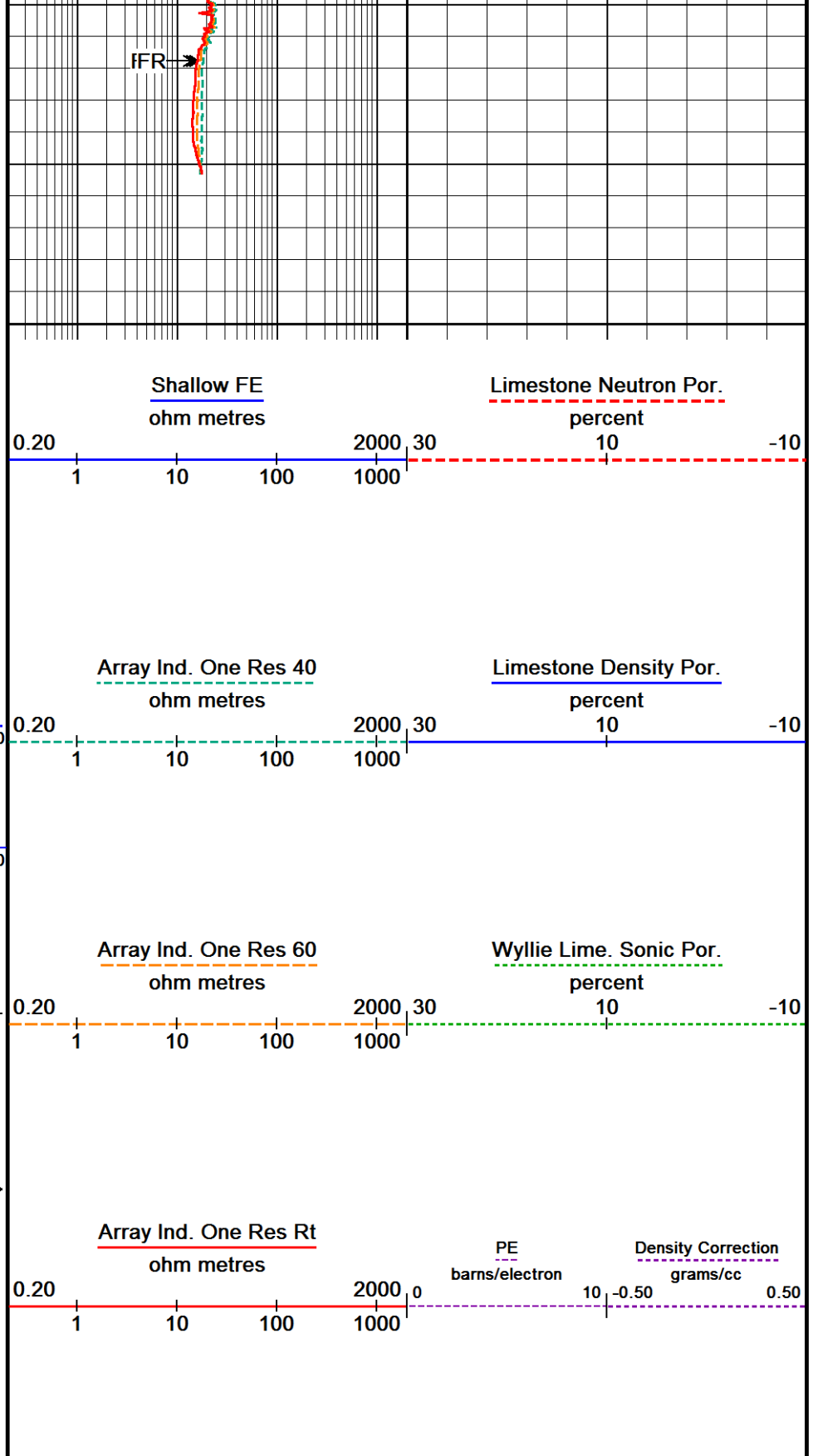
MNRL  
0 30

MINV  
0 30

HVI  
every  
10 cu ft

Annular  
Integral  
every  
10 cu ft

Replay  
Scale  
1:240

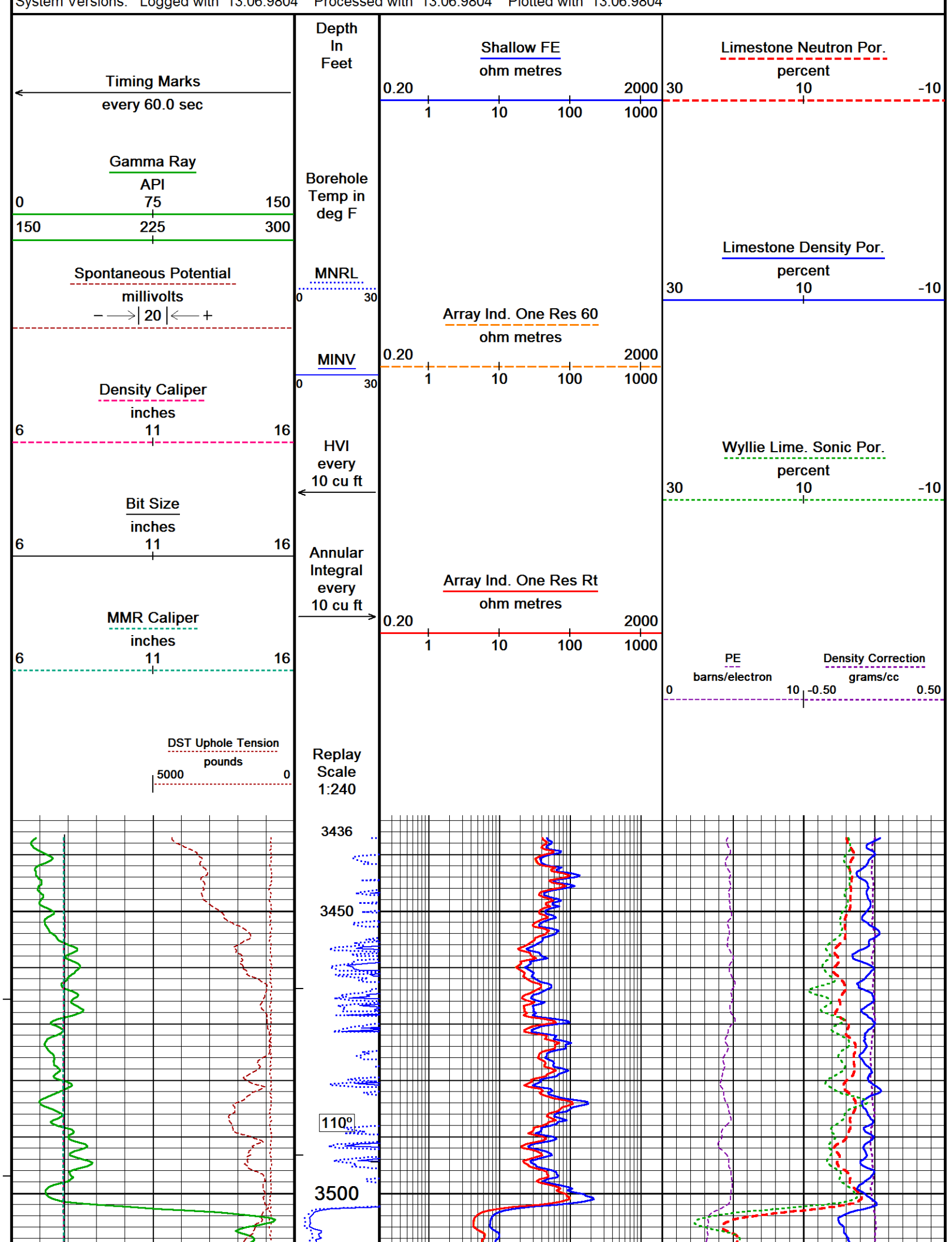


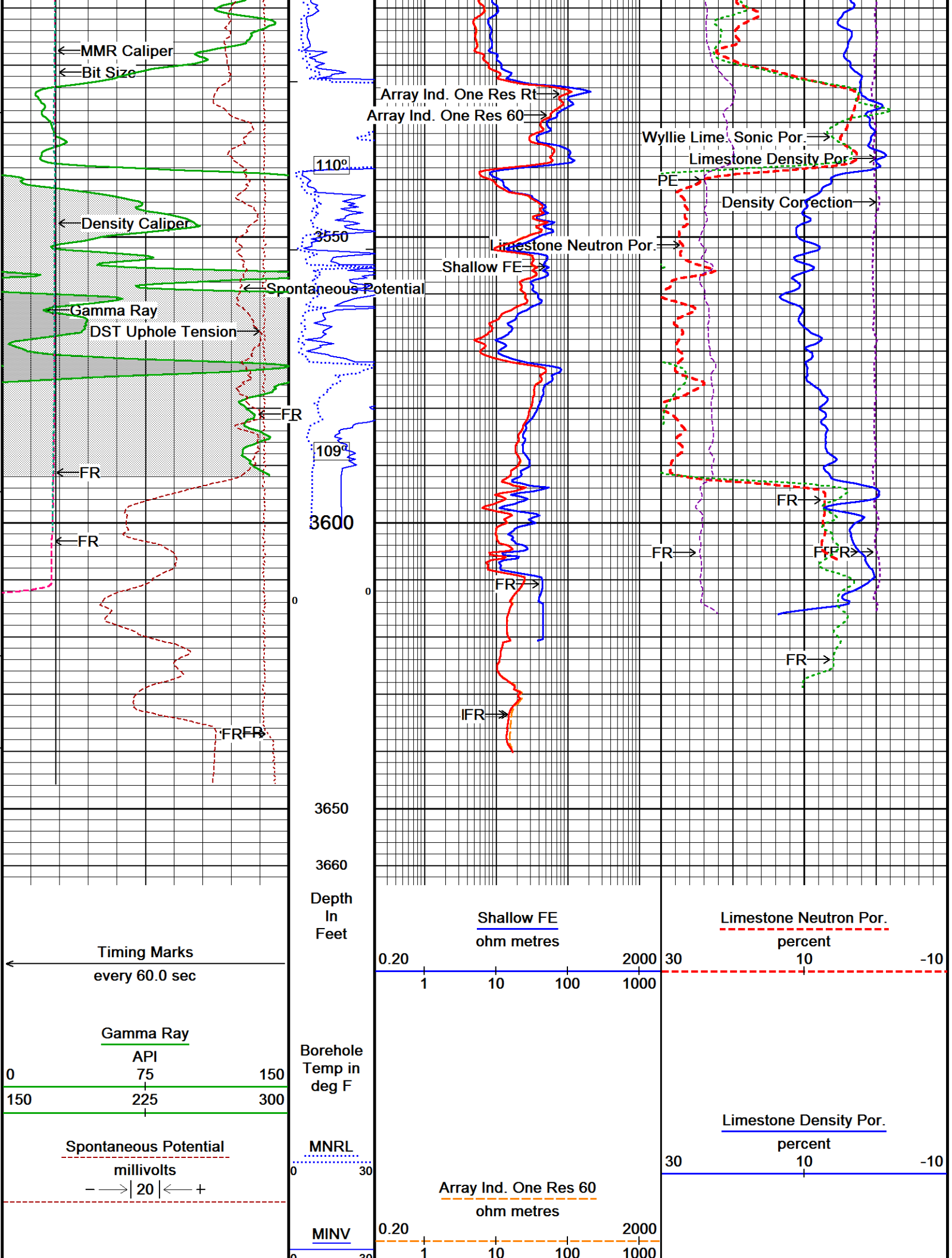
Depth Based Data - Maximum Sampling Increment 2.5cm  
Filename: F:\TAOS WMU #15 UPLOADING\New Folder\HI-RESOLUTION PASS.dta  
System Versions: Logged with 13.06.9804 Processed with 13.06.9804 Plotted with 13.06.9804  
Plotted on 07-NOV-2013 01:57  
Recorded on 06-NOV-2013 16:46

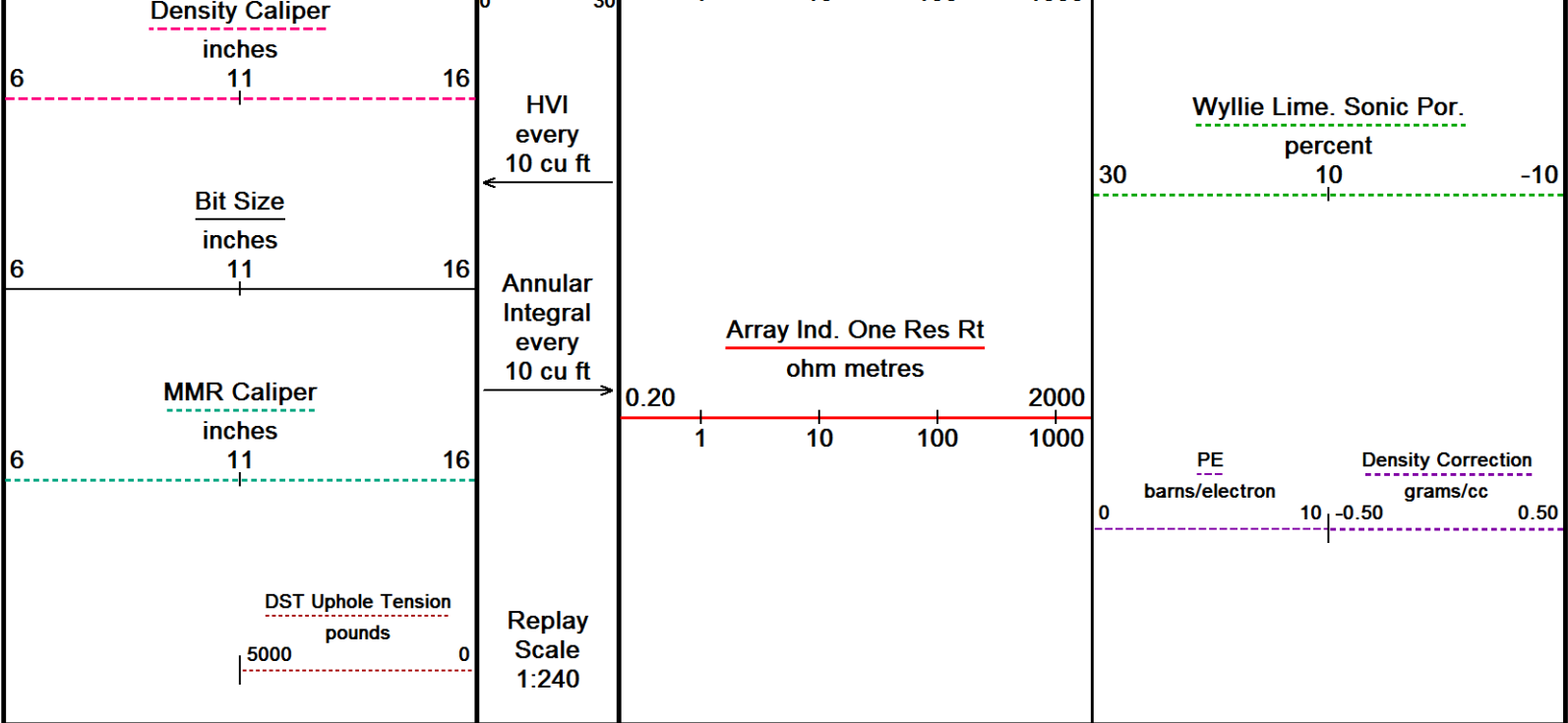
↑ HIGH RESOLUTION SECTION ↑

↓ 5 INCH REPEAT SECTION 1:240 ↓

Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: F:\TAOS WMU #15 UPLOADING\New Folder\REPEAT PASS.dta  
System Versions: Logged with 13.06.9804 Processed with 13.06.9804 Plotted with 13.06.9804  
Plotted on 07-NOV-2013 01:57  
Recorded on 06-NOV-2013 16:30







Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: F:\TAOS WMU #15 UPLOADING\New Folder\REPEAT PASS.dta  
 System Versions: Logged with 13.06.9804 Processed with 13.06.9804 Plotted with 13.06.9804  
 Plotted on 07-NOV-2013 01:57  
 Recorded on 06-NOV-2013 16:30

5 INCH REPEAT SECTION 1:240

| BEFORE SURVEY CALIBRATION                               |                        |                                        |  |
|---------------------------------------------------------|------------------------|----------------------------------------|--|
| F:\TAOS WMU #15 UPLOADING\New Folder\MAIN PASS.dta      |                        |                                        |  |
| General Constants All 000                               |                        | Last Edited on 06-NOV-2013,13:35       |  |
| General Parameters                                      |                        |                                        |  |
| Mud Resistivity                                         | 1.100                  | ohm-metres                             |  |
| Mud Resistivity Temperature                             | 71.000                 | 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. Four 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 06-NOV-2013 15:53 |  |
| Reading No                                              | Measured               | Calibrated (lbs)                       |  |
| 1                                                       | 14501.52               | 0.00                                   |  |
| 2                                                       | 15727.91               | 460.00                                 |  |
| Gamma Calibration MCG-C 86                              |                        | Field Calibration on 03-NOV-2013 11:27 |  |
|                                                         | Measured               | Calibrated (API)                       |  |
| Background                                              | 33                     | 22                                     |  |
| Calibrator (Gross)                                      | 1081                   | 718                                    |  |
| Calibrator (Net)                                        | 1048                   | 696                                    |  |
| Gamma Constants MCG-C 86                                |                        | Last Edited on 06-NOV-2013,13:35       |  |

|                                                        |                                |                      |
|--------------------------------------------------------|--------------------------------|----------------------|
| Gamma Calibrator Number                                | 36                             |                      |
| Mud Density                                            | 1.14                           | gm/cc                |
| Caliper Source for Processing                          | Density Caliper                |                      |
| Tool Position                                          | Eccentred                      |                      |
| Concentration of KCl                                   |                                | kppm                 |
| K Mud Type                                             | Chloride                       |                      |
| K Mud Concentration                                    | 0.00                           | %                    |
| SP Calibration MCG-C 86                                |                                |                      |
|                                                        | Measured                       | Calibrated (mV)      |
| Reference 1                                            | 100.0                          | 100.0                |
| Reference 2                                            | -100.0                         | -100.0               |
| Field Calibration on 03-NOV-2013,11:20                 |                                |                      |
| High Resolution Temperature Calibration MCG-C 86       |                                |                      |
|                                                        | Measured                       | Calibrated(Deg F)    |
| Lower                                                  | 50.00                          | 50.00                |
| Upper                                                  | 100.00                         | 100.00               |
| Field Calibration on 06-NOV-2013,06:48                 |                                |                      |
| High Resolution Temperature Constants MCG-C 86         |                                |                      |
| Last Edited on 06-NOV-2013,06:48                       |                                |                      |
| Pre-filter Length                                      | 11                             |                      |
| Micro Laterolog Calibration MMR-C.A 245                |                                |                      |
| Base Calibration on Field Check on                     |                                |                      |
| Base Calibration                                       |                                |                      |
|                                                        | Measured                       | Calibrated (ohm-m)   |
| Ref 1                                                  | Ref 2                          | Ref 1                |
| 0.0                                                    | 0.0                            | 0.0                  |
|                                                        |                                | Ref 2                |
|                                                        |                                | 0.0                  |
| Base Check (ohm-m)                                     | Field Check (ohm-m)            |                      |
| 0.0                                                    | 0.0                            |                      |
| Micro Laterolog Constants MMR-C.A 245                  |                                |                      |
| Last Edited on 03-NOV-2013,17:42                       |                                |                      |
| Pad Type                                               | 8 in Profile, 3.5 in OD B32583 |                      |
| Micro Laterolog K Factor                               | 0.0165                         |                      |
| 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                            |                      |
| Caliper Calibration MMR-C.A 245                        |                                |                      |
| Base Calibration on 26-SEP-2013,11:16                  |                                |                      |
| Field Calibration on 03-NOV-2013,17:45                 |                                |                      |
| Base Calibration                                       |                                |                      |
| Reading No                                             | Measured                       | Calibrator Size (in) |
| 1                                                      | 13709                          | 5.96                 |
| 2                                                      | 16753                          | 7.97                 |
| 3                                                      | 19761                          | 9.84                 |
| 4                                                      | 23179                          | 11.91                |
| 5                                                      | 0                              | 0.00                 |
| 6                                                      | N/A                            | N/A                  |
| Field Calibration                                      |                                |                      |
|                                                        | Measured Caliper (in)          | Actual Caliper (in)  |
|                                                        | 10.08                          | 9.84                 |
| Micro Normal and Micro Inverse Calibration MMR-C.A 245 |                                |                      |
| Base Calibration on 26-SEP-2013,11:17                  |                                |                      |
| Field Check on 06-NOV-2013 06:33                       |                                |                      |
| Base Calibration                                       |                                |                      |
|                                                        | Measured                       | Calibrated (ohm-m)   |
| Channel                                                | Resistor 1                     | Resistor 2           |
| Micro Normal                                           | 11.9                           | 59.8                 |
| Micro Inverse                                          | 15.6                           | 77.3                 |
|                                                        |                                | 5.0                  |
|                                                        |                                | 25.0                 |
|                                                        |                                | 5.0                  |
|                                                        |                                | 25.0                 |
| Channel                                                | Base Check (ohm-m)             | Field Check (ohm-m)  |

|                                                      |                                             |                    |                                                                           |
|------------------------------------------------------|---------------------------------------------|--------------------|---------------------------------------------------------------------------|
| Micro Normal                                         | 76.1                                        | 76.1               |                                                                           |
| Micro Inverse                                        | 58.9                                        | 58.9               |                                                                           |
| Micro Normal and Micro Inverse Constants MMR-C.A 245 |                                             |                    | Last Edited on 06-SEP-2013,16:14                                          |
| 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             |                                                                           |
| Neutron Calibration MDN-A.A 11                       |                                             |                    | Base Calibration on 15-OCT-2013 10:17<br>Field Check on 03-NOV-2013 11:32 |
| Base Calibration                                     |                                             |                    |                                                                           |
|                                                      | Measured                                    | Calibrated (cps)   |                                                                           |
|                                                      | Near Far                                    | Near Far           |                                                                           |
|                                                      | 3430 106                                    | 3714 110           |                                                                           |
| Ratio                                                | 32.349                                      | 33.764             |                                                                           |
| Field Calibrator at Base                             |                                             | Calibrated (cps)   |                                                                           |
|                                                      |                                             | 2162 3072          |                                                                           |
| Ratio                                                |                                             | 0.704              |                                                                           |
| Field Check                                          |                                             | Calibrated (cps)   |                                                                           |
|                                                      |                                             | 2117 3057          |                                                                           |
| Ratio                                                |                                             | 0.693              |                                                                           |
| Neutron Constants MDN-A.A 11                         |                                             |                    | Last Edited on 06-NOV-2013,06:33                                          |
| Neutron Source Id                                    | N1054                                       |                    |                                                                           |
| Neutron Jig Number                                   | 036                                         |                    |                                                                           |
| Epithermal Neutron                                   | No                                          |                    |                                                                           |
| 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                      | None                                        |                    |                                                                           |
| Formation Fluid Salinity                             | N/A                                         | kppm               |                                                                           |
| Barite Mud Correction                                | Not Applied                                 |                    |                                                                           |
| FE Calibration MFE-B.A 206                           |                                             |                    | Base Calibration on 05-NOV-2013,18:25<br>Field Check on 06-NOV-2013 06:35 |
| Base Calibration                                     |                                             |                    |                                                                           |
|                                                      | Measured                                    | Calibrated (ohm-m) |                                                                           |
| Reference 1                                          | 0.0                                         | 0.0                |                                                                           |
| Reference 2                                          | 967.3                                       | 126.8              |                                                                           |
| Base Check                                           |                                             | 280.0              |                                                                           |
| Field Check                                          |                                             | 279.6              |                                                                           |
| FE Constants MFE-B.A 206                             |                                             |                    | Last Edited on 06-NOV-2013,06:35                                          |
| 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                          | Temperature Corr                            |                    |                                                                           |
| Temp. for Rm Corr.                                   | MCG External Temperature                    |                    |                                                                           |
| Stand-off                                            | 0.5                                         | inches             |                                                                           |
| Sonic Constants MSS-A.A 101                          |                                             |                    | Last Edited on 06-NOV-2013,06:36                                          |
| 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 |              |
| Correction for Sonde Skew | Applied          |              |
| Cycle Stretch Algorithm   | Applied          |              |
| MN3FT                     | 0.00             | micro-sec    |
| MX3FT                     | 1500.00          | micro-sec    |
| Hunt-Raymer Constant      | 83.13            | micro-sec/ft |

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

#### Sonde Parameters

|           |          |            |
|-----------|----------|------------|
|           | Measured | Calibrated |
| Offset    | 0.0000   | 0.0000     |
| Free Pipe | 0.0000   |            |

#### Peak Amplitude Source

| 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) |  |
| 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       |  |
| 0.00                         | 0.00                 | 0.00               | 0.00       |  |

#### Full Waveform Parameters

|                                 |         |
|---------------------------------|---------|
| Use 3' Waveform to derive TR    | No      |
| Use 4' Waveform to derive TR    | No      |
| Use 5' Waveform to derive TR    | No      |
| Use 6' Waveform to derive TR    | No      |
| 3' Waveform Discriminator Level | 0.30 mV |
| 4' Waveform Discriminator Level | 0.30 mV |
| 5' Waveform Discriminator Level | 0.15 mV |
| 6' Waveform Discriminator Level | 0.15 mV |
| 3' Waveform Filter              |         |
| 4' Waveform Filter              |         |
| 5' Waveform Filter              |         |
| 6' Waveform Filter              |         |

|                        |                     |
|------------------------|---------------------|
| Semblance Level        | 0.50                |
| Semblance Window Width | 120.00 micro-sec    |
| Sonic 1 Despiker       | 100.00 micro-sec/ft |
| Sonic 2 Despiker       | 100.00 micro-sec/ft |

Induction Calibration MAI-A.A 169

Base Calibration on 04-SEP-2013,22:49  
Field Check on 06-NOV-2013 06:38

#### Base Calibration

| Test Loop Calibration | Measured |       | Calibrated (mmho/m) |       |
|-----------------------|----------|-------|---------------------|-------|
| Channel               | Low      | High  | Low                 | High  |
| 1                     | 17.8     | 485.7 | 9.3                 | 966.2 |
| 2                     | 6.3      | 393.9 | 7.6                 | 821.4 |
| 3                     | 3.5      | 265.5 | 5.2                 | 566.0 |
| 4                     | 2.3      | 135.1 | 2.6                 | 279.2 |

|                   |      |       |
|-------------------|------|-------|
| Array Temperature | 75.2 | Deg F |
|-------------------|------|-------|

| Channel | Base Check (mmho/m) |      | Field Check (mmho/m) |        |
|---------|---------------------|------|----------------------|--------|
|         | Low                 | High | Low                  | High   |
| 1       |                     |      | 10.7                 | 3765.5 |
| 2       |                     |      | 28.8                 | 3447.7 |
| 3       |                     |      | 27.7                 | 3001.7 |

|                                                     |                        |                      |                                        |  |
|-----------------------------------------------------|------------------------|----------------------|----------------------------------------|--|
| 4                                                   |                        | 18.5                 | 2065.8                                 |  |
| Deep                                                |                        | 16.6                 | 2002.2                                 |  |
| Medium                                              |                        | 41.4                 | 3922.9                                 |  |
| Shallow                                             |                        | 43.4                 | 5033.6                                 |  |
| Array Temperature                                   |                        | 59.8                 | Deg F                                  |  |
| Induction Constants MAI-A.A 169                     |                        |                      | Last Edited on 06-NOV-2013,06:37       |  |
| 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.                                  | Borehole Temp. Unfilt. |                      |                                        |  |
| 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 169 |                        |                      | Field Calibration on 06-NOV-2013,06:37 |  |
|                                                     | Measured               | Calibrated(Deg F)    |                                        |  |
| Lower                                               | 50.00                  | 50.00                |                                        |  |
| Upper                                               | 100.00                 | 100.00               |                                        |  |
| High Resolution Temperature Constants MAI-A.A 169   |                        |                      | Last Edited on 06-NOV-2013,06:36       |  |
| Pre-filter Length                                   | 11                     |                      |                                        |  |
| Caliper Calibration MPD-B 120                       |                        |                      | Base Calibration on 11-SEP-2013 17:09  |  |
|                                                     |                        |                      | Field Calibration on 03-NOV-2013 11:02 |  |
| Base Calibration                                    |                        |                      |                                        |  |
| Reading No                                          | Measured               | Calibrator Size (in) |                                        |  |
| 1                                                   | 18976                  | 3.98                 |                                        |  |
| 2                                                   | 27600                  | 5.96                 |                                        |  |
| 3                                                   | 36269                  | 7.97                 |                                        |  |
| 4                                                   | 44720                  | 9.84                 |                                        |  |
| 5                                                   | 54240                  | 11.91                |                                        |  |
| 6                                                   | N/A                    | N/A                  |                                        |  |
| Field Calibration                                   |                        |                      |                                        |  |
|                                                     | Measured Caliper (in)  | Actual Caliper (in)  |                                        |  |
|                                                     | 8.23                   | 7.99                 |                                        |  |

## Density Calibration

## Base Calibration

|             | Measured |       | Calibrated (sdu) |       |
|-------------|----------|-------|------------------|-------|
|             | Near     | Far   | Near             | Far   |
| Reference 1 | 57527    | 28805 | 59869            | 31110 |
| Reference 2 | 23364    | 2568  | 24557            | 2522  |

## Field Check at Base

996.5      1249.7

## Field Check

990.1      1238.1

## PE Calibration

## Base Calibration

|             | WS    | Measured |       | Calibrated |
|-------------|-------|----------|-------|------------|
|             |       | WH       | Ratio | Ratio      |
| Background  | 176   | 870      |       |            |
| Reference 1 | 20680 | 57341    | 0.363 | 0.369      |
| Reference 2 | 5905  | 23227    | 0.256 | 0.271      |

## Field Check at Base

176.1      869.9

## Field Check

175.3      863.2

## Density Constants MPD-B 120

Last Edited on 06-NOV-2013,13:35

|                               |                 |
|-------------------------------|-----------------|
| Density Source Id             | P56135B         |
| Nylon Calibrator Number       | 633             |
| Aluminium Calibrator Number   | 633             |
| Density Shoe Profile          | 8 inch          |
| Caliper Source for Processing | Density Caliper |
| PE Correction to Density      | Not Applied     |
| Mud Density                   | 1.14 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)      |
| 2.71                          | 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            |

## DOWNHOLE EQUIPMENT

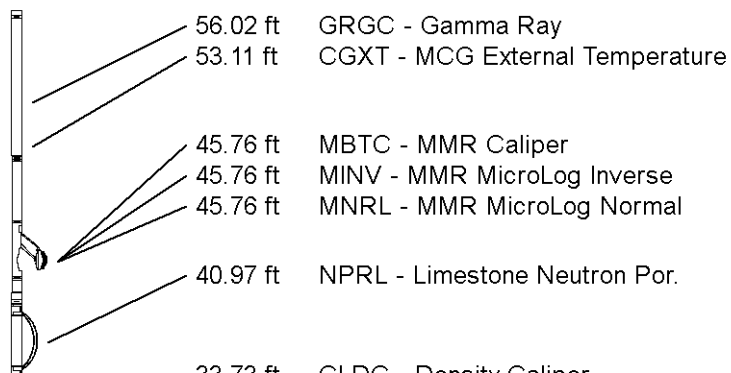
F:\TAOS WMU #15 UPLOADING\New Folder\MAIN PASS.dta

Compact Comms Gamma  
MCG-C 86 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-Resistivity  
MMR-C.A 245 LG: 8.59 ft WT: 81.6 lb OD: 4.88 in

Compact Neutron  
MDN-A.A 11 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper



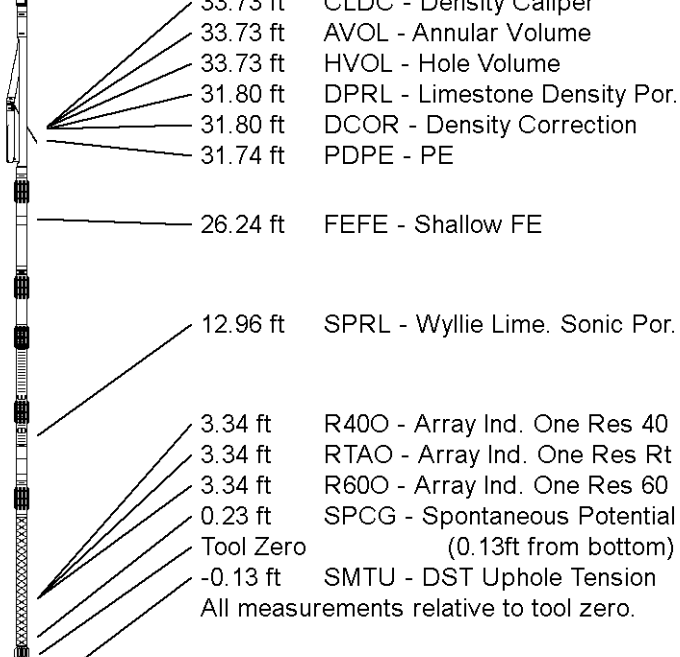
Compact Density/Caliper  
MPD-B 120 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric  
MFE-B.A 206 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic  
MSS-A.A 101 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

Compact Induction  
MAI-A.A 169 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 61.30 ft Weight: 456.4 lb



|                 |                              |
|-----------------|------------------------------|
| COMPANY         | TAOS RESOURCES OPERATING CO. |
| WELL            | WMU #15                      |
| FIELD           | MADDIX NORTH                 |
| PROVINCE/COUNTY | COWLEY                       |
| COUNTRY/STATE   | U.S.A. / KANSAS              |

|                         |         |      |               |         |      |
|-------------------------|---------|------|---------------|---------|------|
| Elevation Kelly Bushing | 1312.00 | feet | First Reading | 3634.00 | feet |
| Elevation Drill Floor   | 1310.00 | feet | Depth Driller | 3650.00 | feet |
| Elevation Ground Level  | 1302.00 | feet | Depth Logger  | 3637.00 | feet |



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COMPOSITE LOG