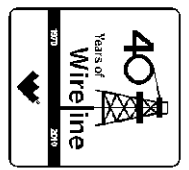




**Weatherford**<sup>®</sup>

**COMPACT PHOTO DENSITY  
COMPENSATED NEUTRON  
MICRORESISTIVITY LOG**

COMPANY **SHAKESPEARE OIL COMPANY**  
 WELL **GLASSMAN #5-35**  
 FIELD **UNNAMED**  
 PROVINCE/COUNTY **LOGAN**  
 COUNTRY/STATE **U.S.A. / KANSAS**  
 LOCATION **335' FNL & 1990' FEL**



SEC **35** TWP **12S** RGE **32W** Other Services **MA/IMFE**  
 API Number **15-109-20992**  
 Permit Number  
 Permanent Datum G.L., Elevation 2984 feet  
 Log Measured From **KB**  
 Drilling Measured From **K.B.**

|                        |              |                |            |
|------------------------|--------------|----------------|------------|
| Date                   | 04-APR-2011  | Elevations:    | KB 2994.00 |
| Run Number             | ONE          | DF 2992.00     | GL 2984.00 |
| Depth Driller          | 4700.00      | feet           |            |
| Depth Logger           | 4697.00      | feet           |            |
| First Reading          | 4676.00      | feet           |            |
| Last Reading           | 3500.00      | feet           |            |
| Casing Driller         | 225.00       | feet           |            |
| Casing Logger          | 225.00       | feet           |            |
| Bit Size               | 7.875        | inches         |            |
| Hole Fluid Type        | CHEMICAL     |                |            |
| Density / Viscosity    | 9.40 lb/USg  | 54.00 CP       |            |
| PH / Fluid Loss        | 9.60         | 10.00 ml/30Min |            |
| Sample Source          | FLOWLINE     |                |            |
| Rm @ Measured Temp     | 1.83 @ 55.0  | ohm-m          |            |
| Rmf @ Measured Temp    | 1.46 @ 55.0  | ohm-m          |            |
| Rmc @ Measured Temp    | 2.20 @ 5.0   | ohm-m          |            |
| Source Rmf / Rmc       | CALC         | CALC           |            |
| Rm @ BHT               | 0.89 @ 113.0 | ohm-m          |            |
| Time Since Circulation | 4 HOURS      |                |            |
| Max Recorded Temp      | 113.00       | deg F          |            |
| Equipment Name         | COMPACT      |                |            |
| Equipment / Base       | 13057        | LIB            |            |
| Recorded By            | R.HOFFMAN    |                |            |
| Witnessed By           | DON WILLIAMS |                |            |
| S.O. # / JOB #         | 3529128      |                | LB11-067   |

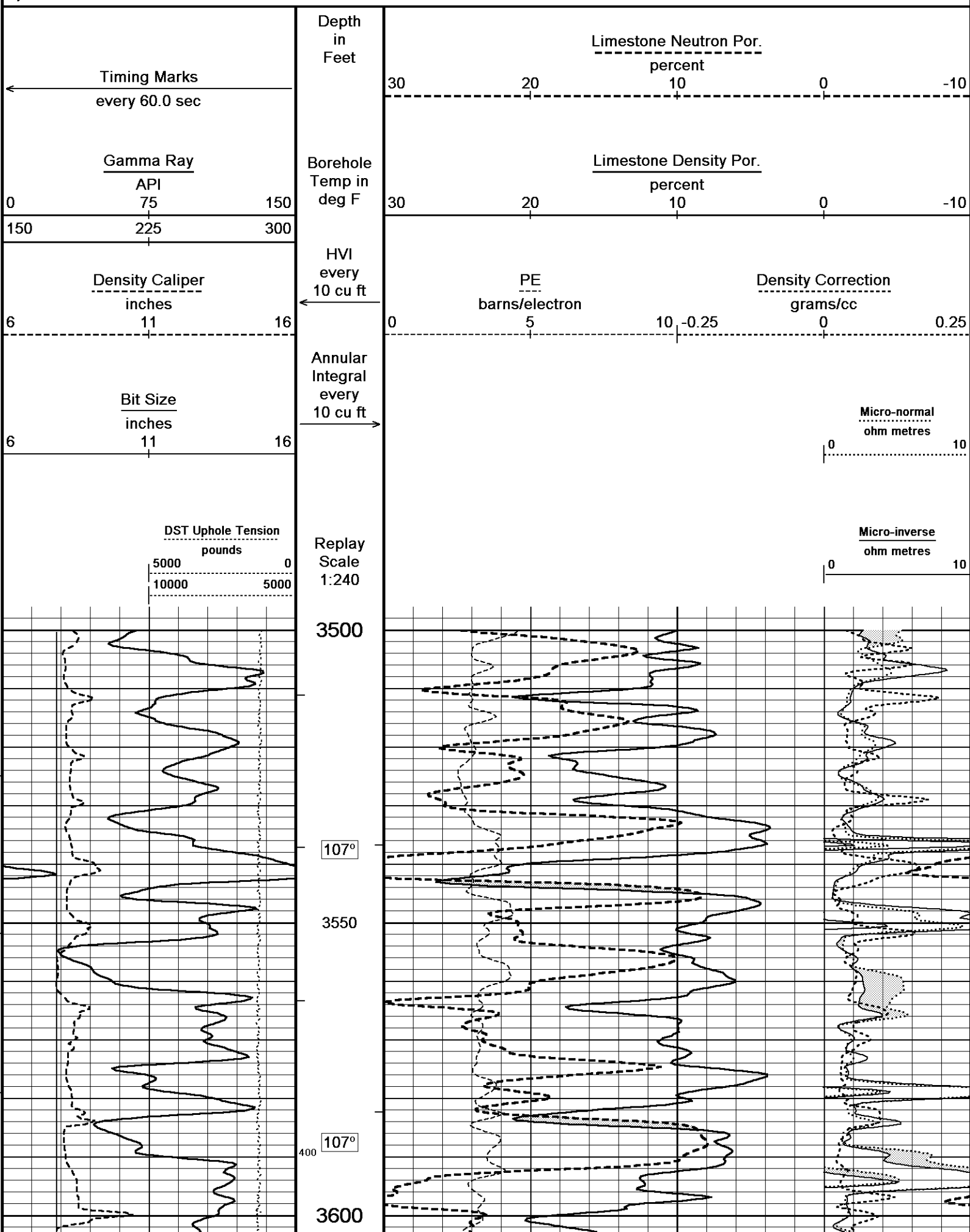
| BOREHOLE RECORD    |                    |                    | Last Edited: 04-APR-2011 05:41 |                     |
|--------------------|--------------------|--------------------|--------------------------------|---------------------|
| Bit Size<br>inches | Depth From<br>feet | Depth To<br>feet   |                                |                     |
| 7.875              | 225.00             | 4697.00            |                                |                     |
| CASING RECORD      |                    |                    |                                |                     |
| Type               | Size<br>inches     | Depth From<br>feet | Shoe Depth<br>feet             | Weight<br>pounds/ft |
| SURFACE            | 8.625              | 0.00               | 225.00                         | 24.00               |

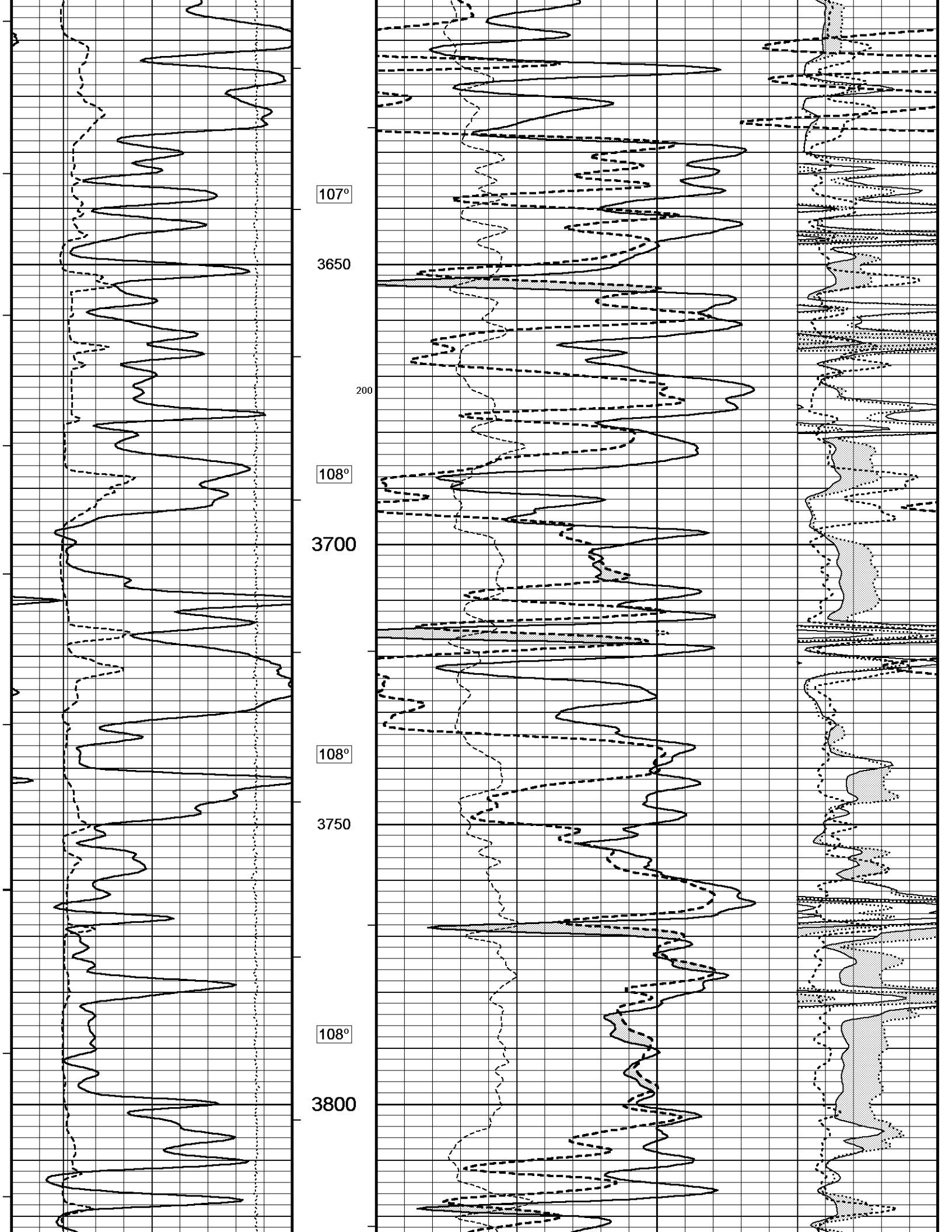
**REMARKS**

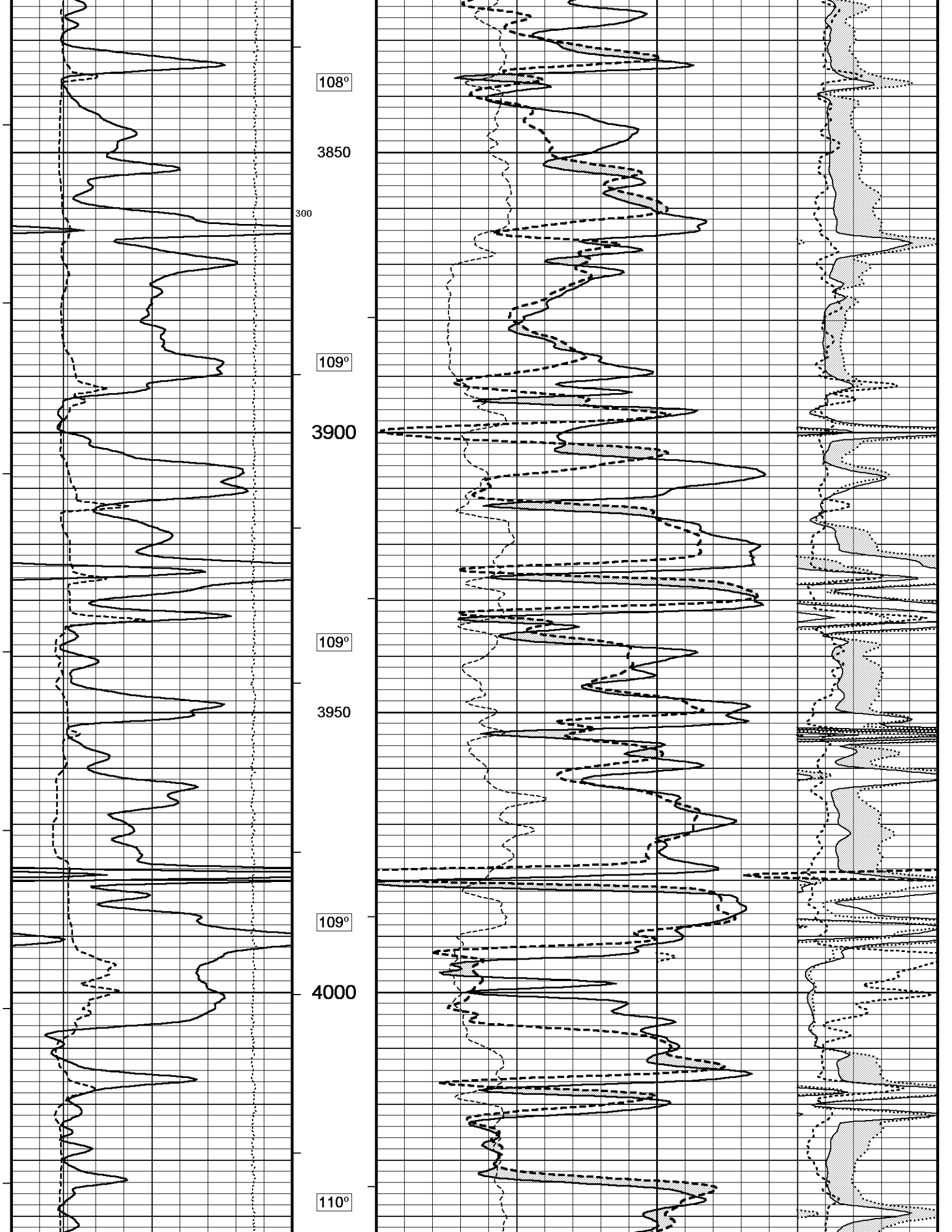
Tools Ran: MCG, MML, MDN, MPD, SKJ, MFE, MAI.  
 Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE and MAI 0.5 inch standoffs used.  
 2.71 g/cc Limestone Density Matrix used to calculate porosity.  
 All intervals logged and scaled per customer's request.  
 Annular volume with 5.5 inch production casing= 238 cu. ft.  
 Service order #3529128  
 Engineer: R. Hoffman  
 Operator(s): N. Adame, M. Stegman

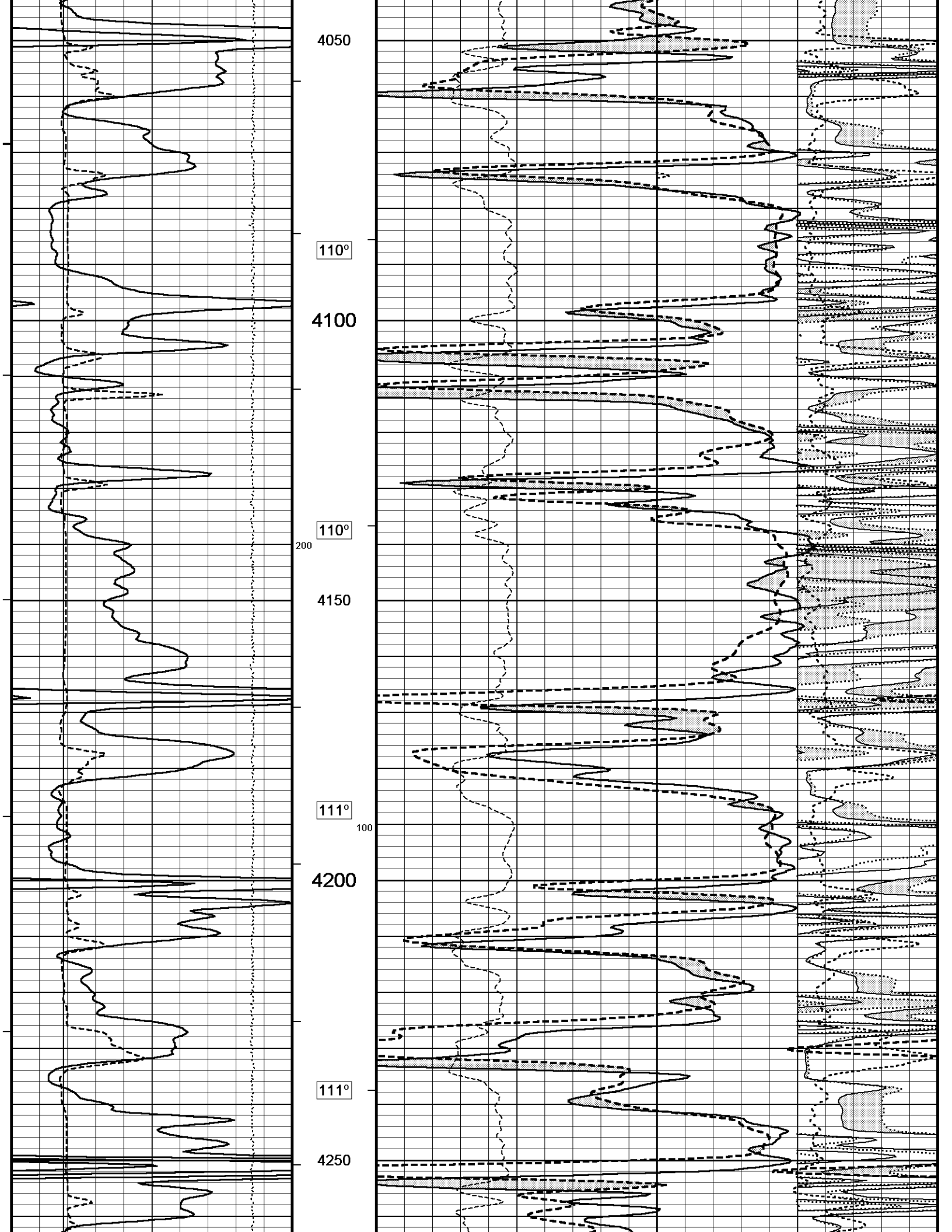
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

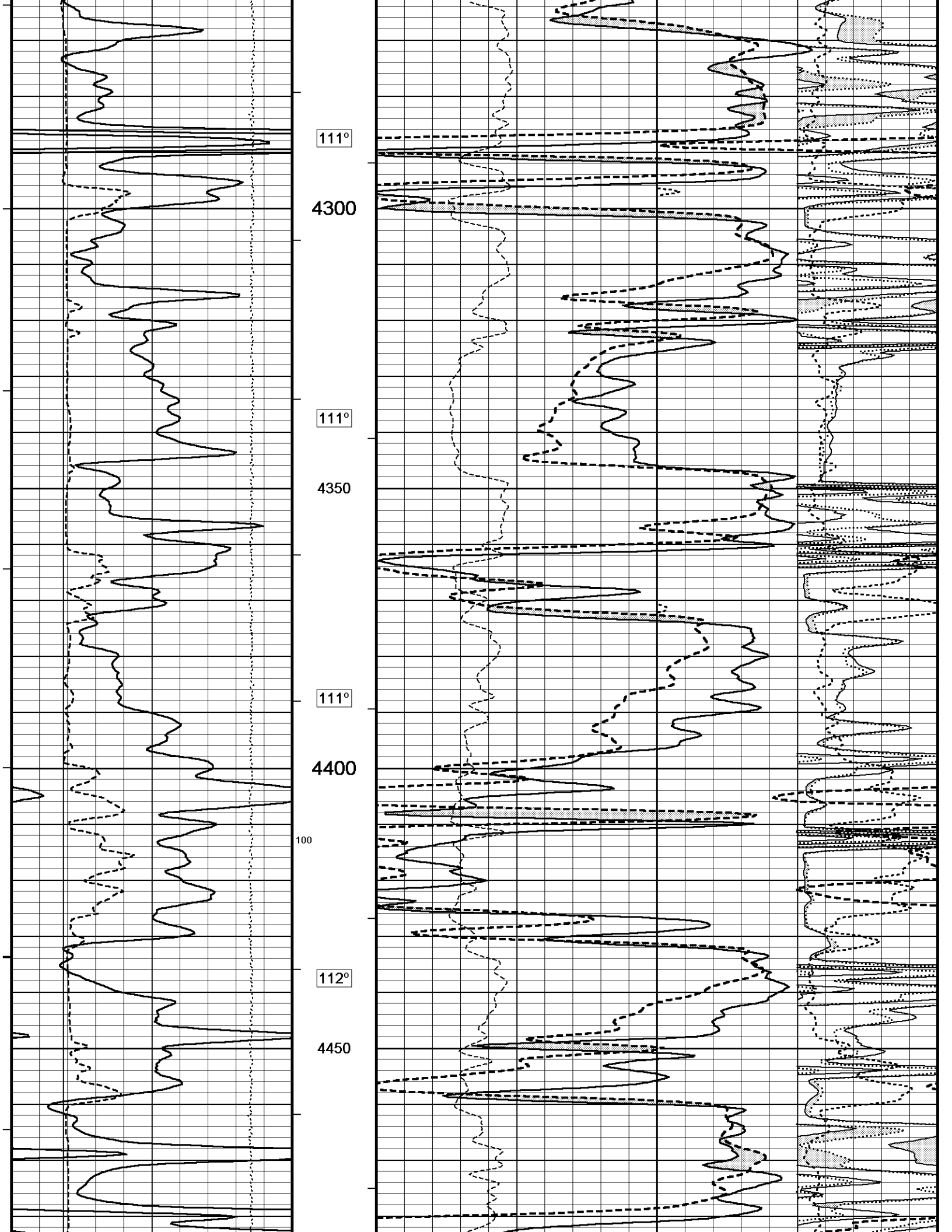
↙ **5 INCH MAIN PASS** ↘

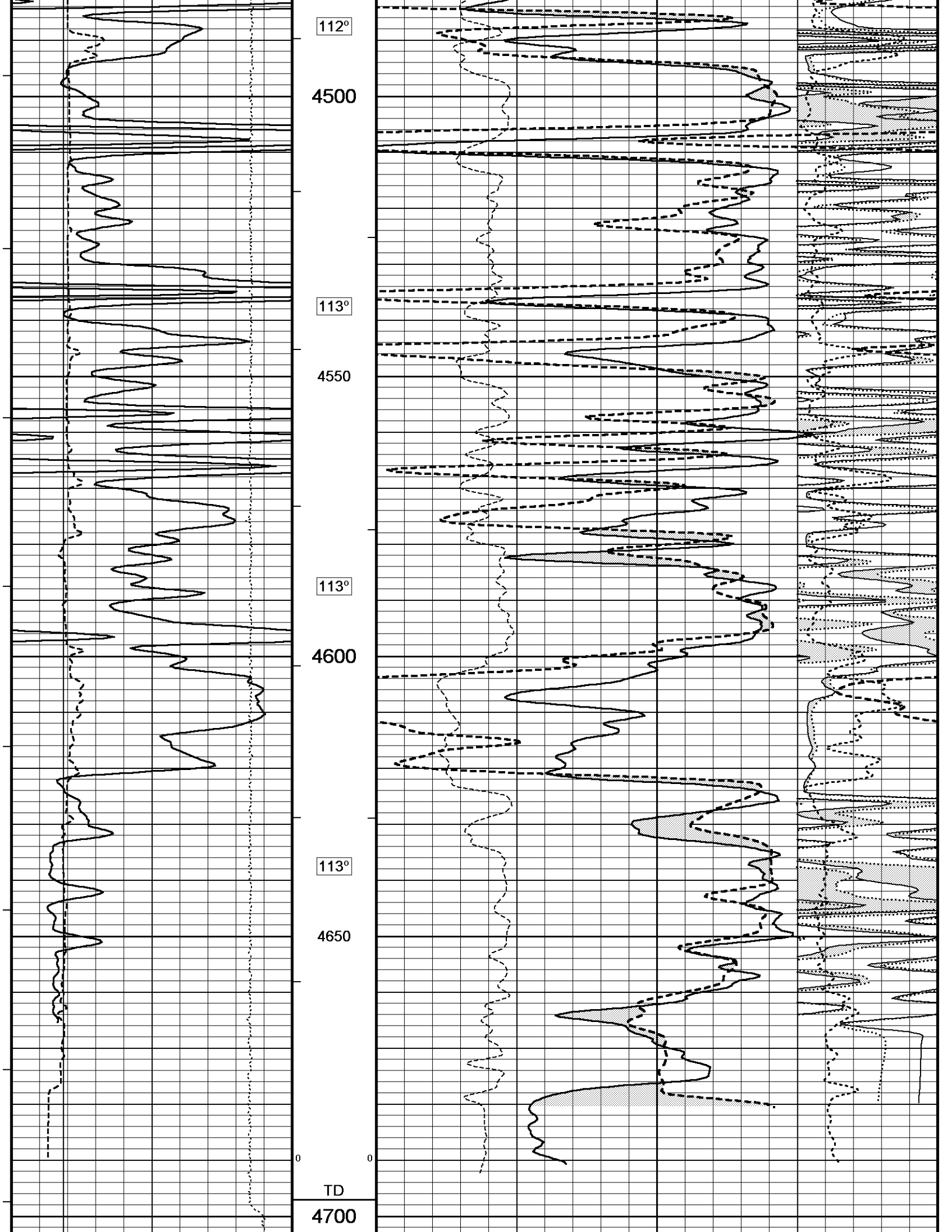


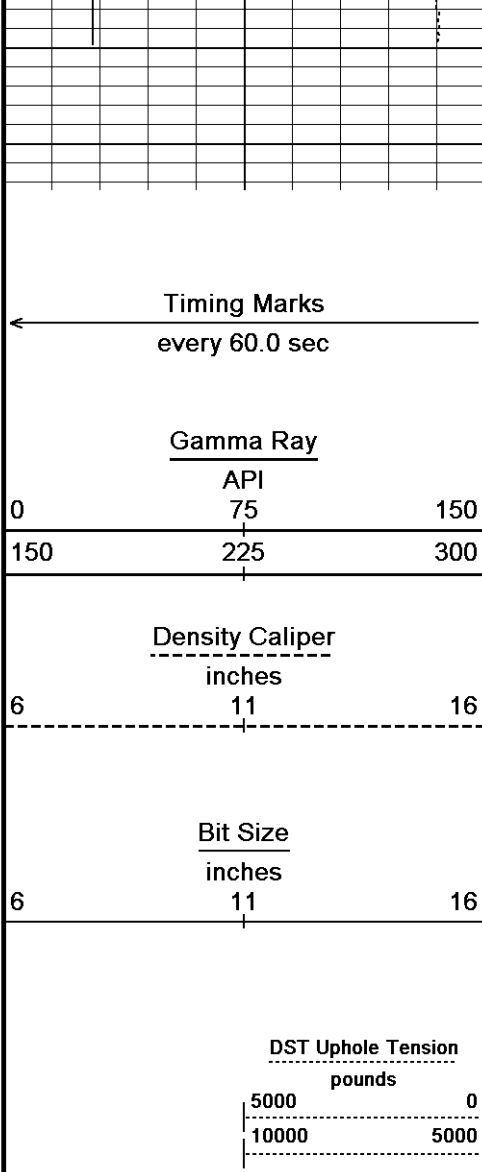












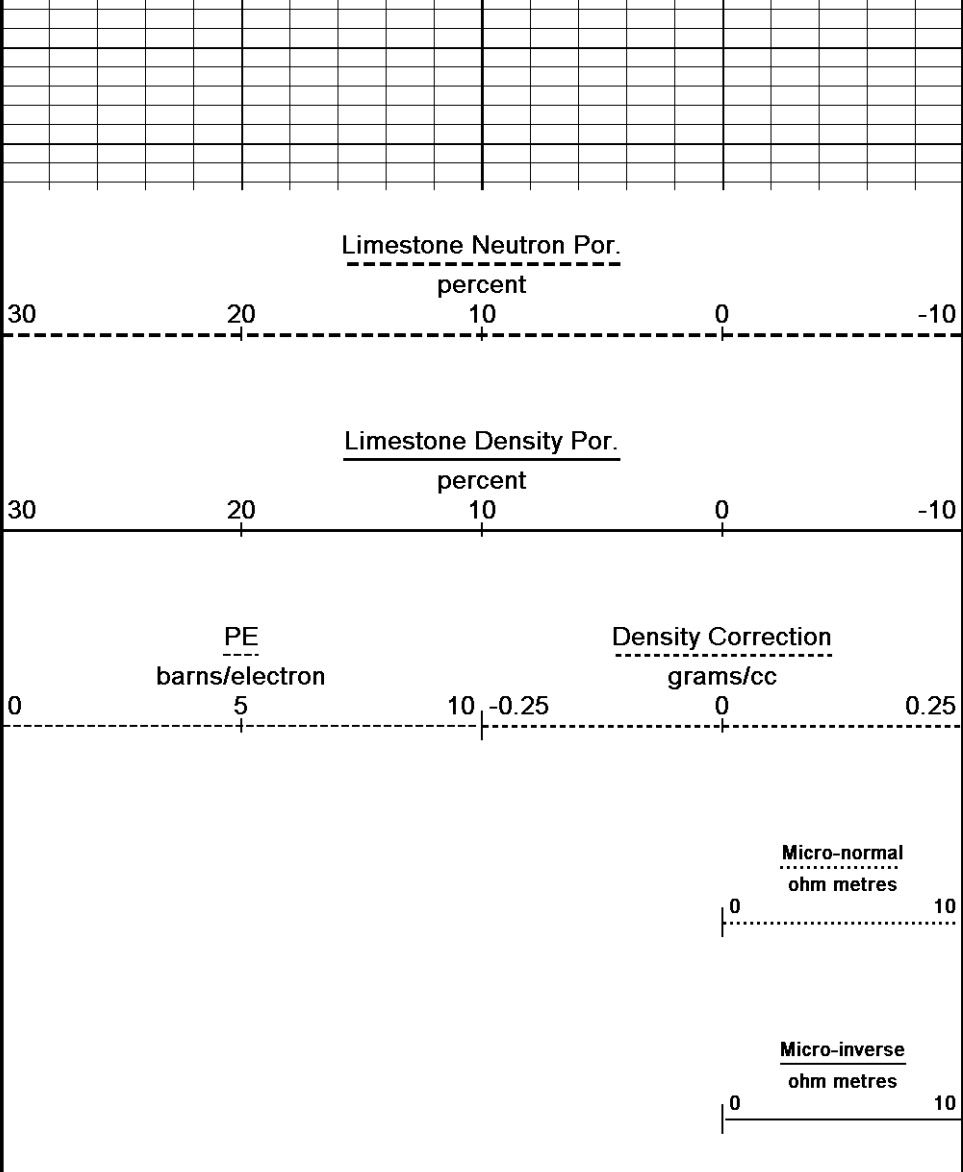
Depth in Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-APR-2011 06:14

Filename: C:\Program Files\Weatherford\WLS 11.03\Data\Shakespeare Glassman 5-35 Reprocess.dta Recorded on 04-APR-2011 02:32

System Versions: Processed with 11.03.3274 Plotted with 11.03.3274

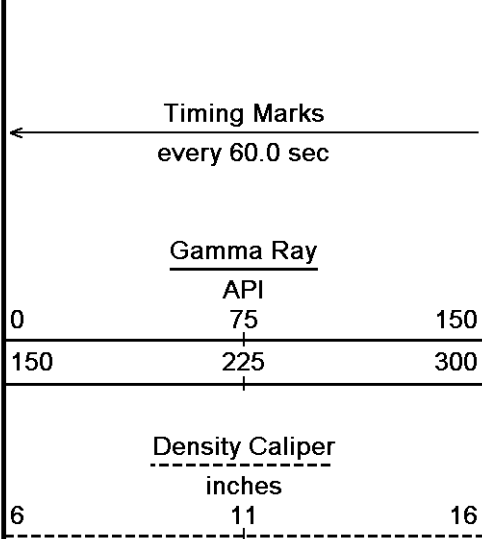
5 INCH MAIN PASS

5 INCH REPEAT PASS

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-APR-2011 06:14

Filename: C:\Program Files\Weatherford\WLS 11.03\Data\Shakespeare Glassman #5-35\_001.dta Recorded on 04-APR-2011 02:12

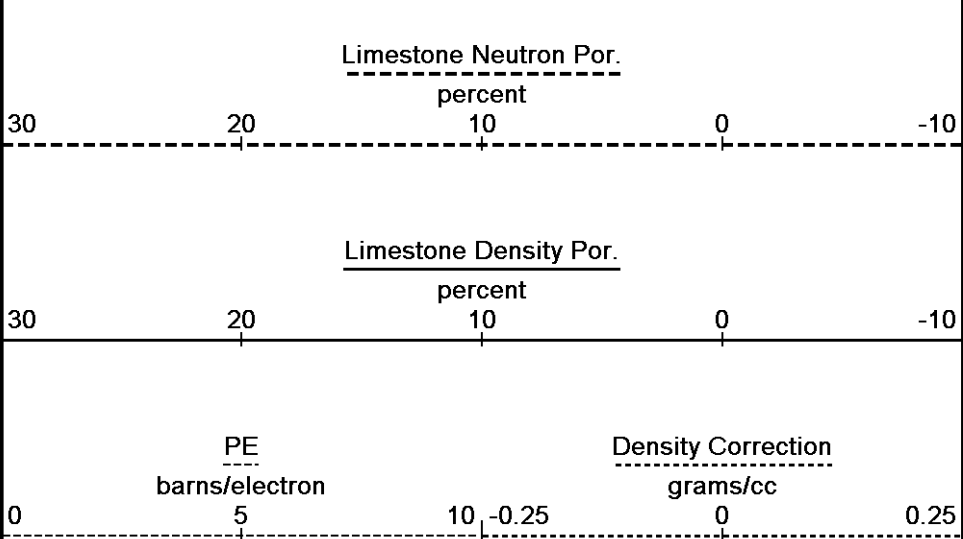
System Versions: Logged with 11.03.3274 Plotted with 11.03.3274



Depth in Feet

Borehole Temp in deg F

HVI every 10 cu ft



Bit Size  
inches  
6 11 16

Annular  
Integral  
every  
10 cu ft  
→

Micro-normal  
ohm metres  
0 10

DST Uphole Tension  
pounds  
5000 0  
10000 5000

Replay  
Scale  
1:240

Micro-inverse  
ohm metres  
0 10



4500

111°

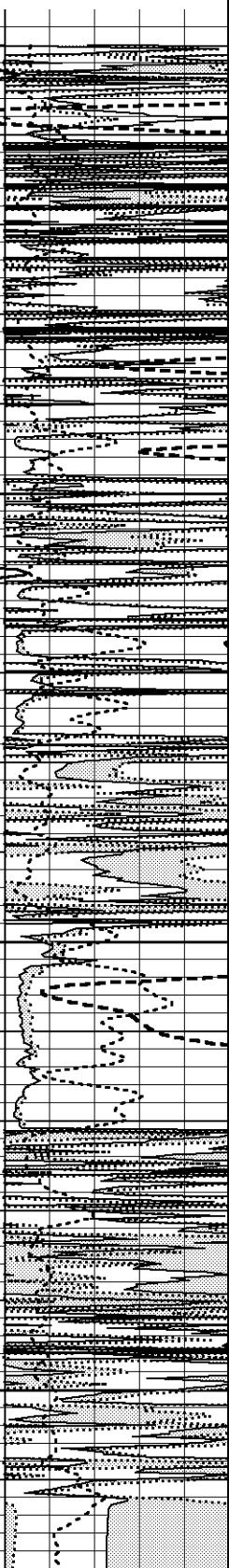
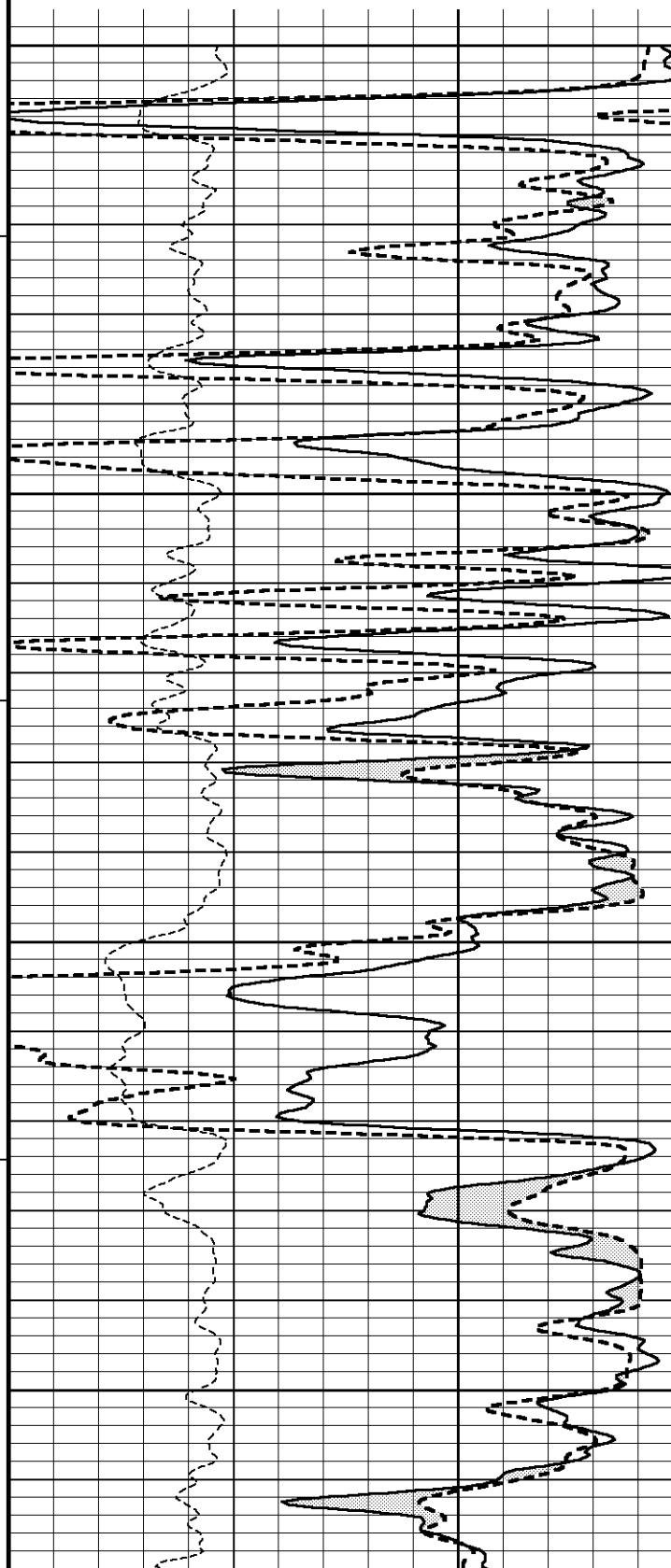
4550

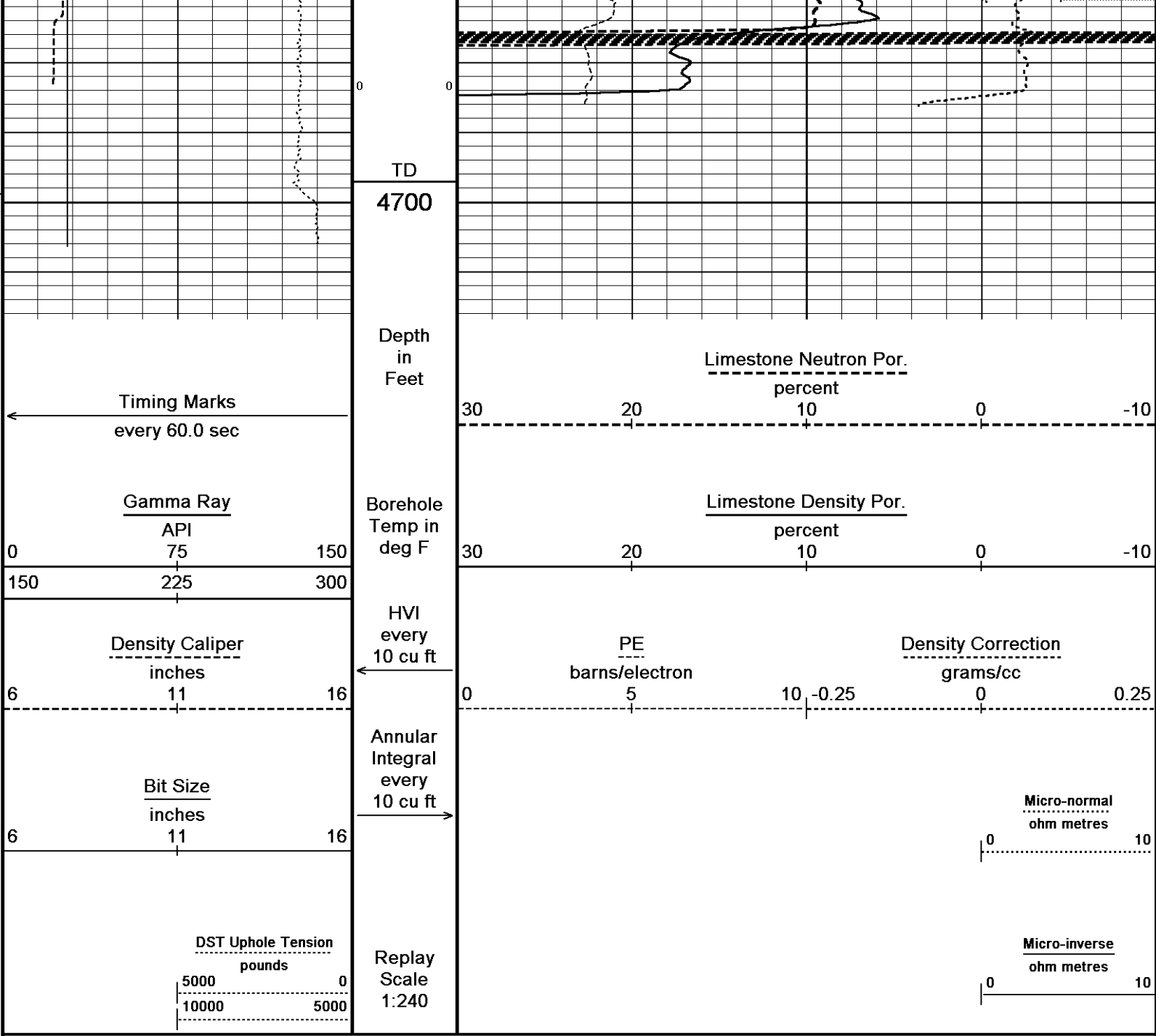
112°

4600

112°

4650



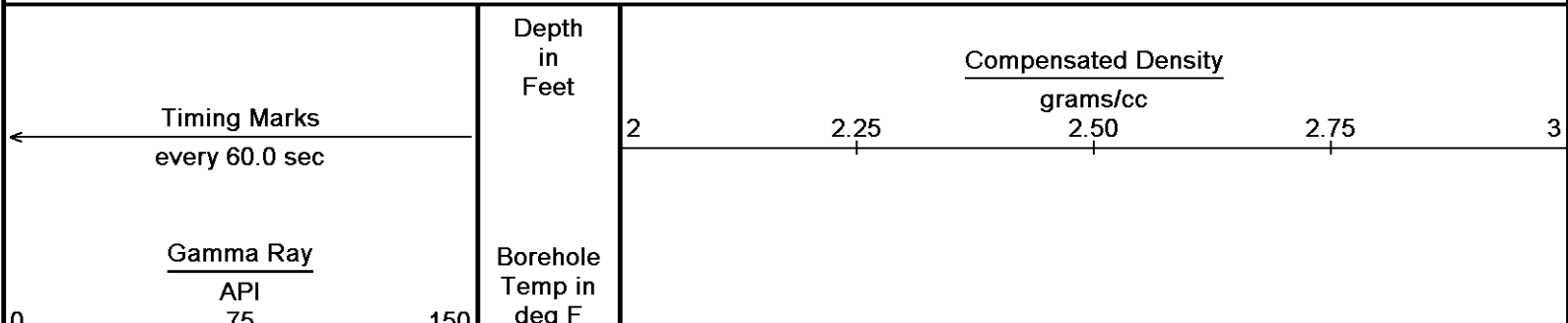


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-APR-2011 06:14  
 Filename: C:\Program Files\Weatherford\WLS 11.03\Data\Sh...\Shakespeare Glassman #5-35\_001.dta Recorded on 04-APR-2011 02:12  
 System Versions: Logged with 11.03.3274 Plotted with 11.03.3274

↑ **5 INCH REPEAT PASS** ↑

↓ **5 INCH MAIN PASS** ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-APR-2011 06:14  
 Filename: C:\Program Files\Weatherford\WLS 11.03\Dat...\Shakespeare Glassman 5-35 Reprocess.dta Recorded on 04-APR-2011 02:32  
 System Versions: Processed with 11.03.3274 Plotted with 11.03.3274



150 75 150  
225 300

Density Caliper  
inches  
6 11 16

Bit Size  
inches  
6 11 16

DST Uphole Tension  
pounds  
5000 0  
0 -5000

HVI  
every  
10 cu ft

Annular  
Integral  
every  
10 cu ft

Replay  
Scale  
1:240

Limestone Density Por.

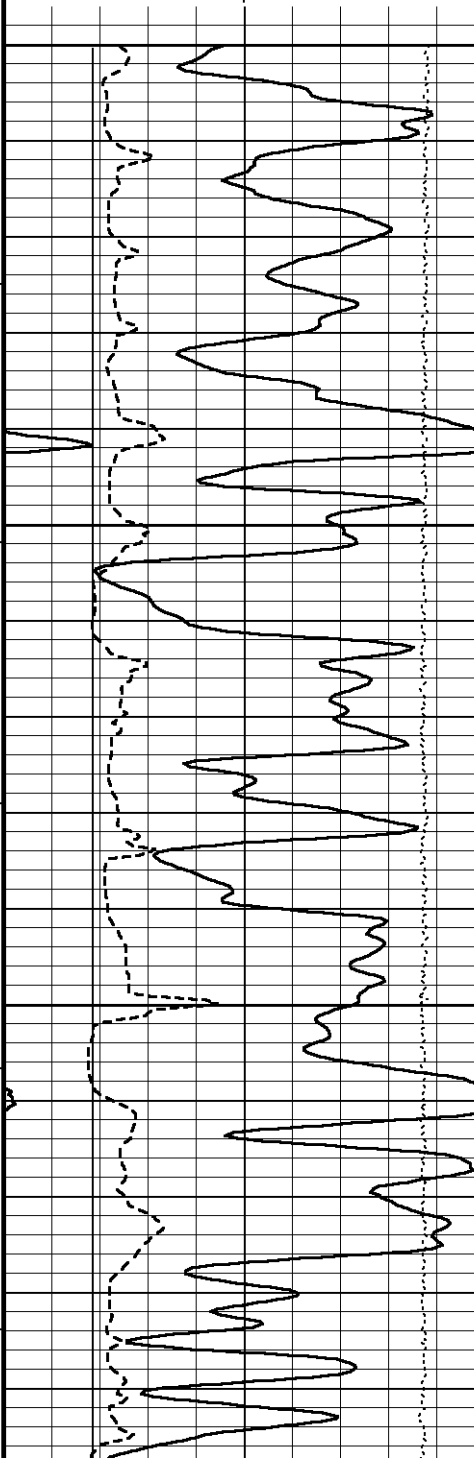
percent

30 20 10 0 -10

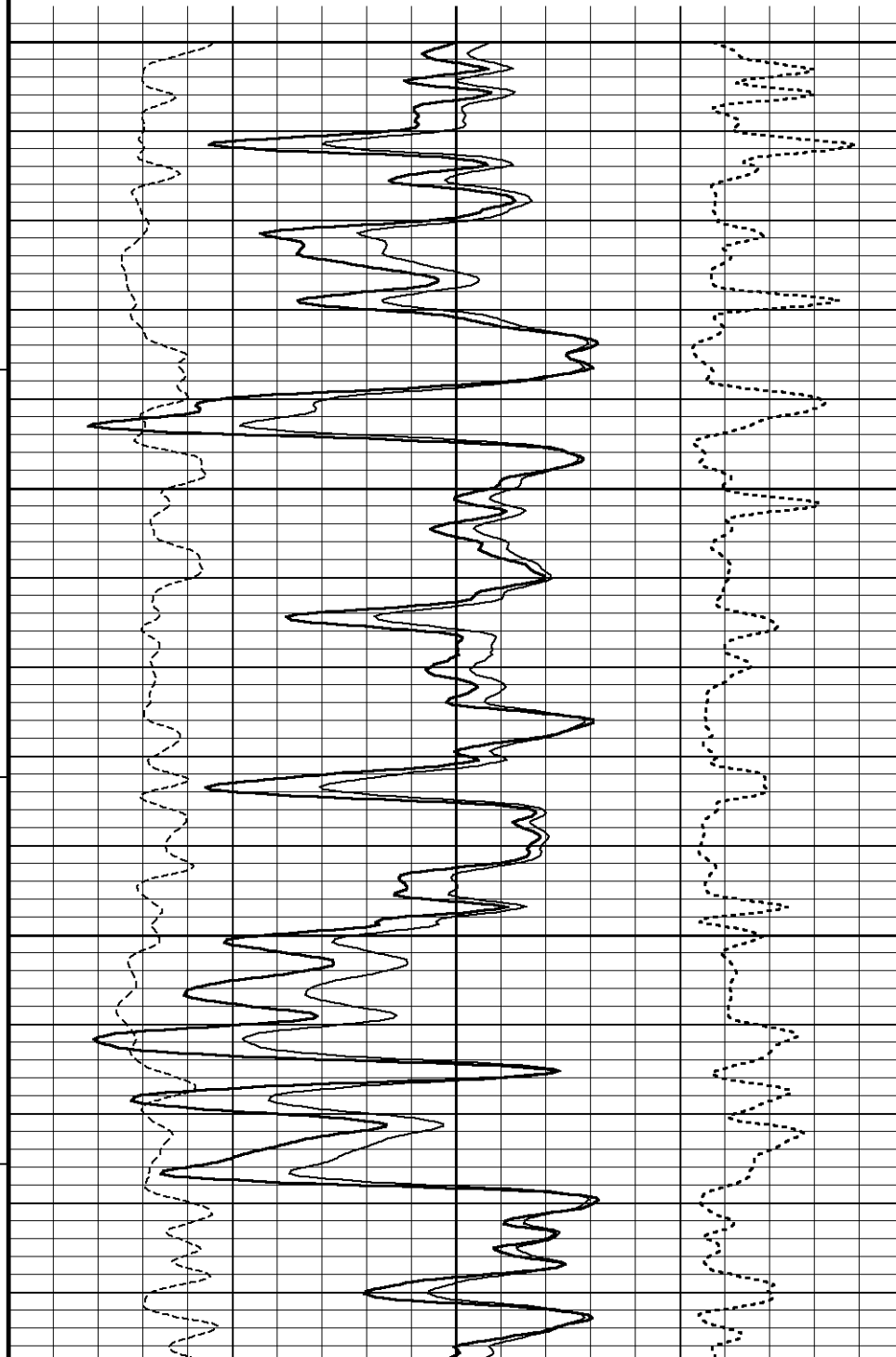
PE  
barns/electron

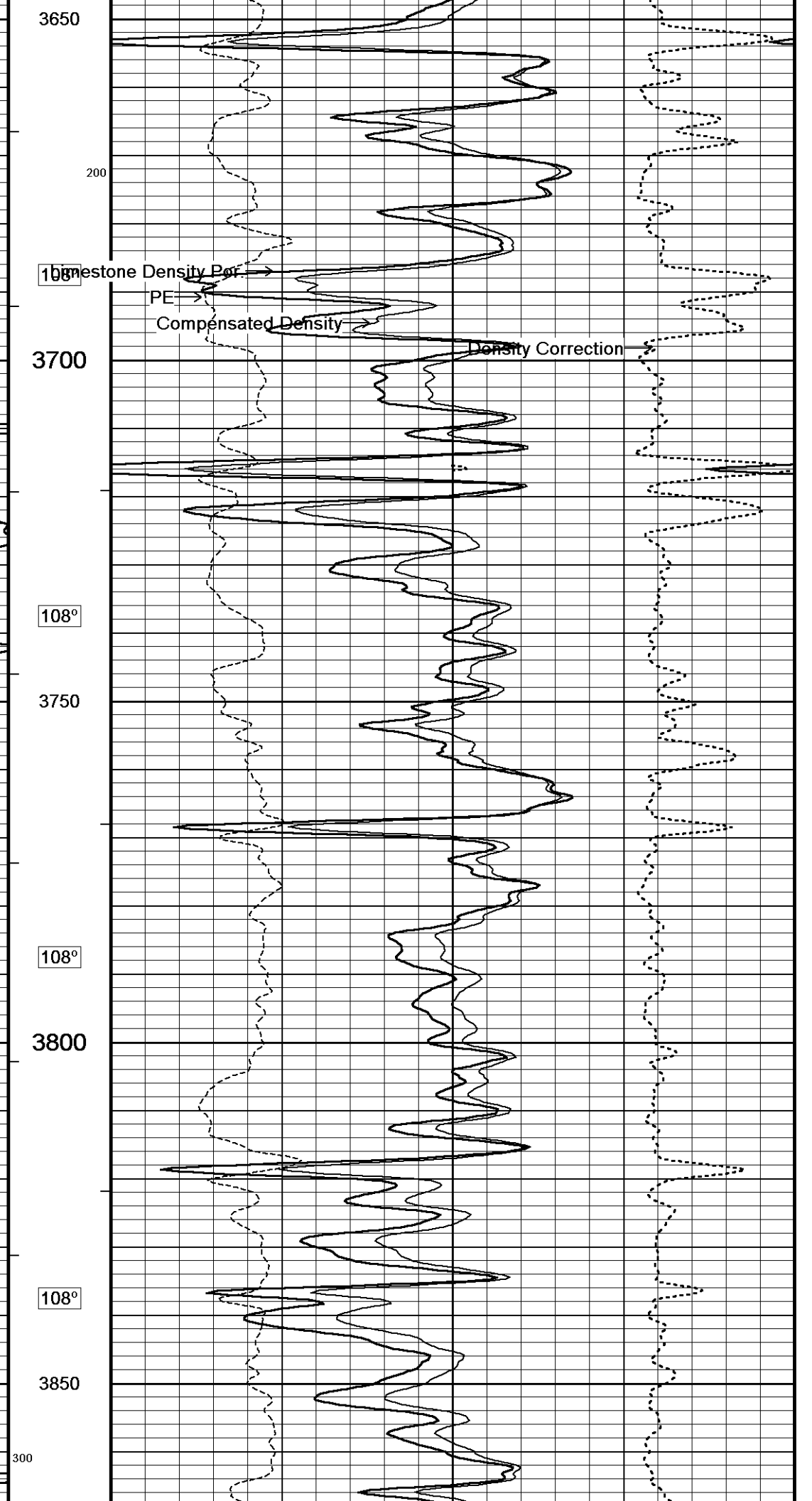
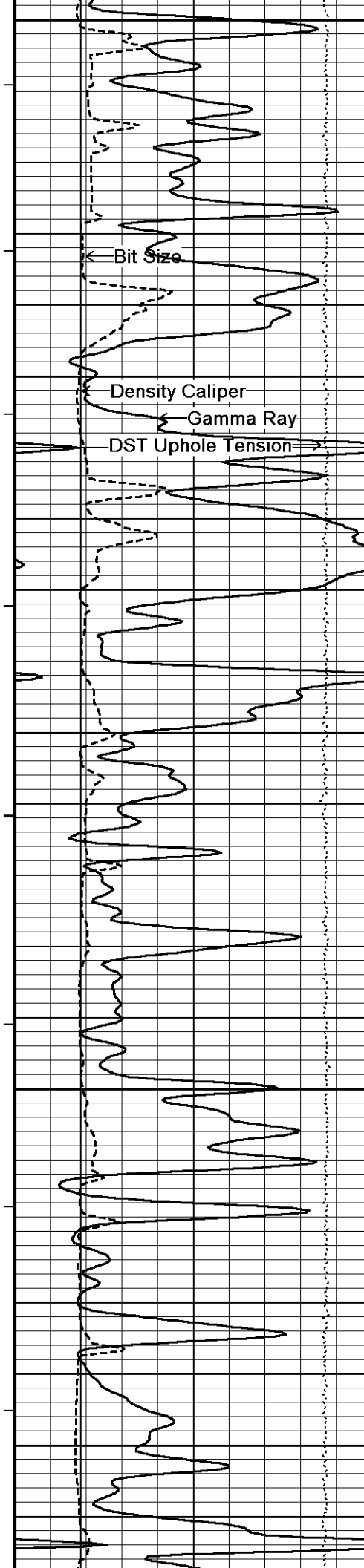
Density Correction  
grams/cc

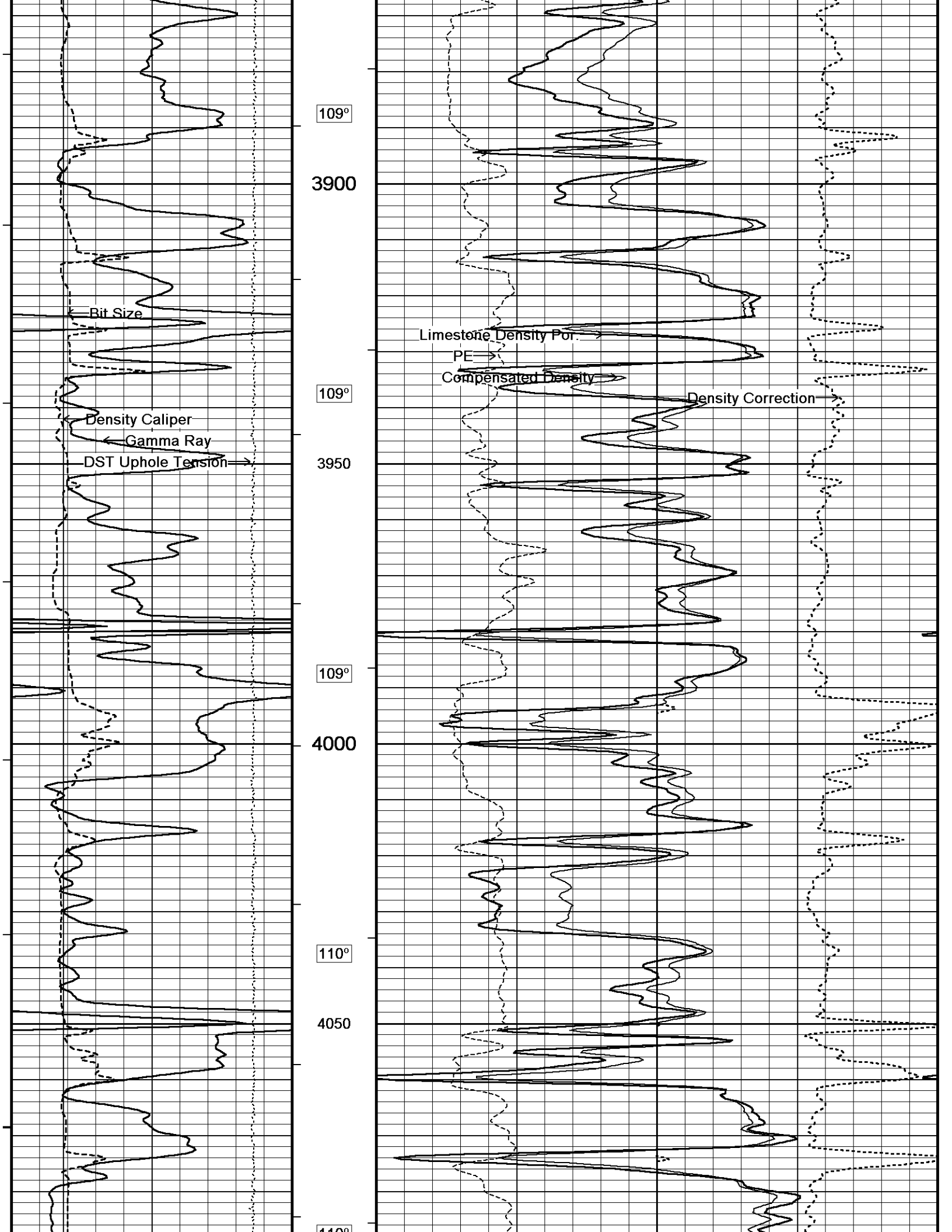
0 5 10 -0.25 0 0.25

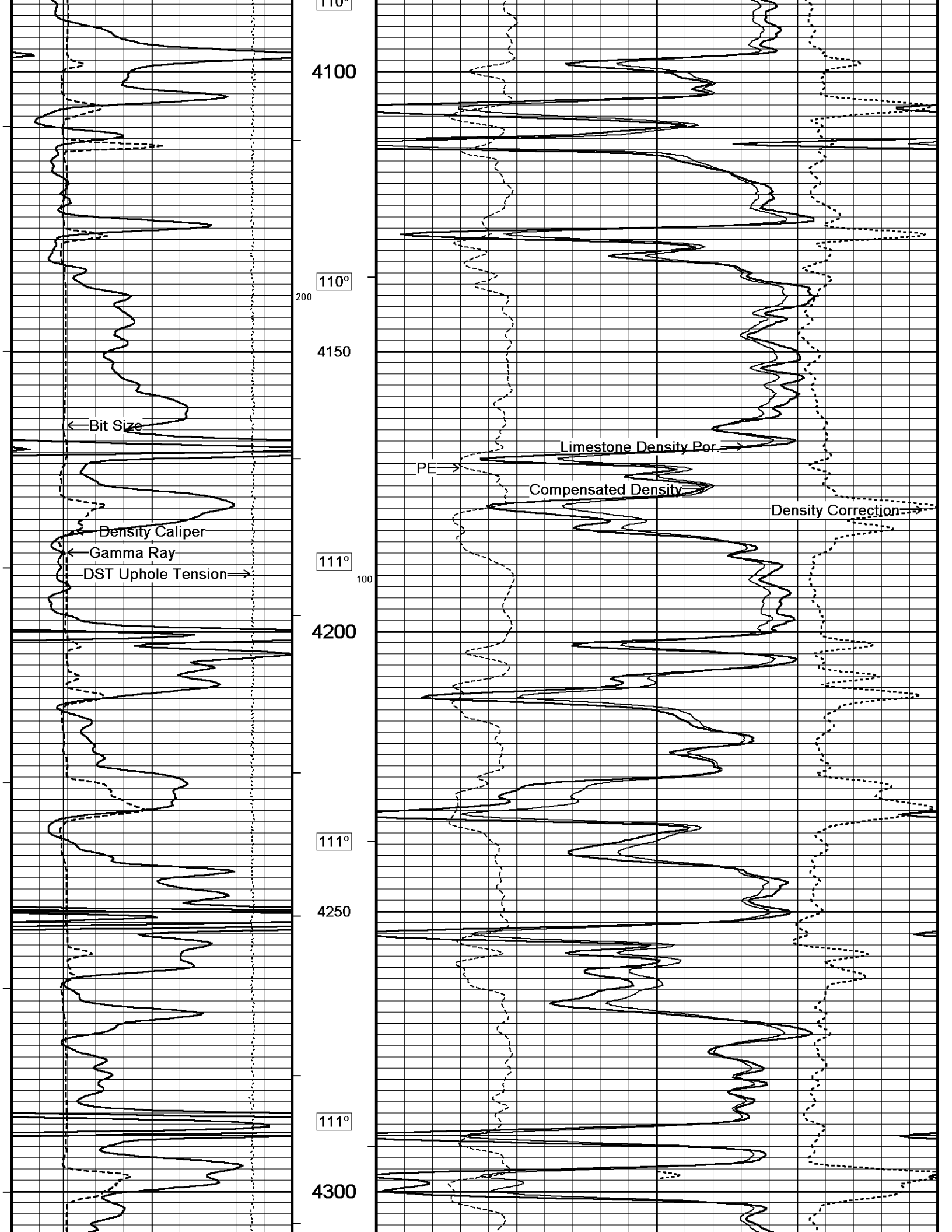


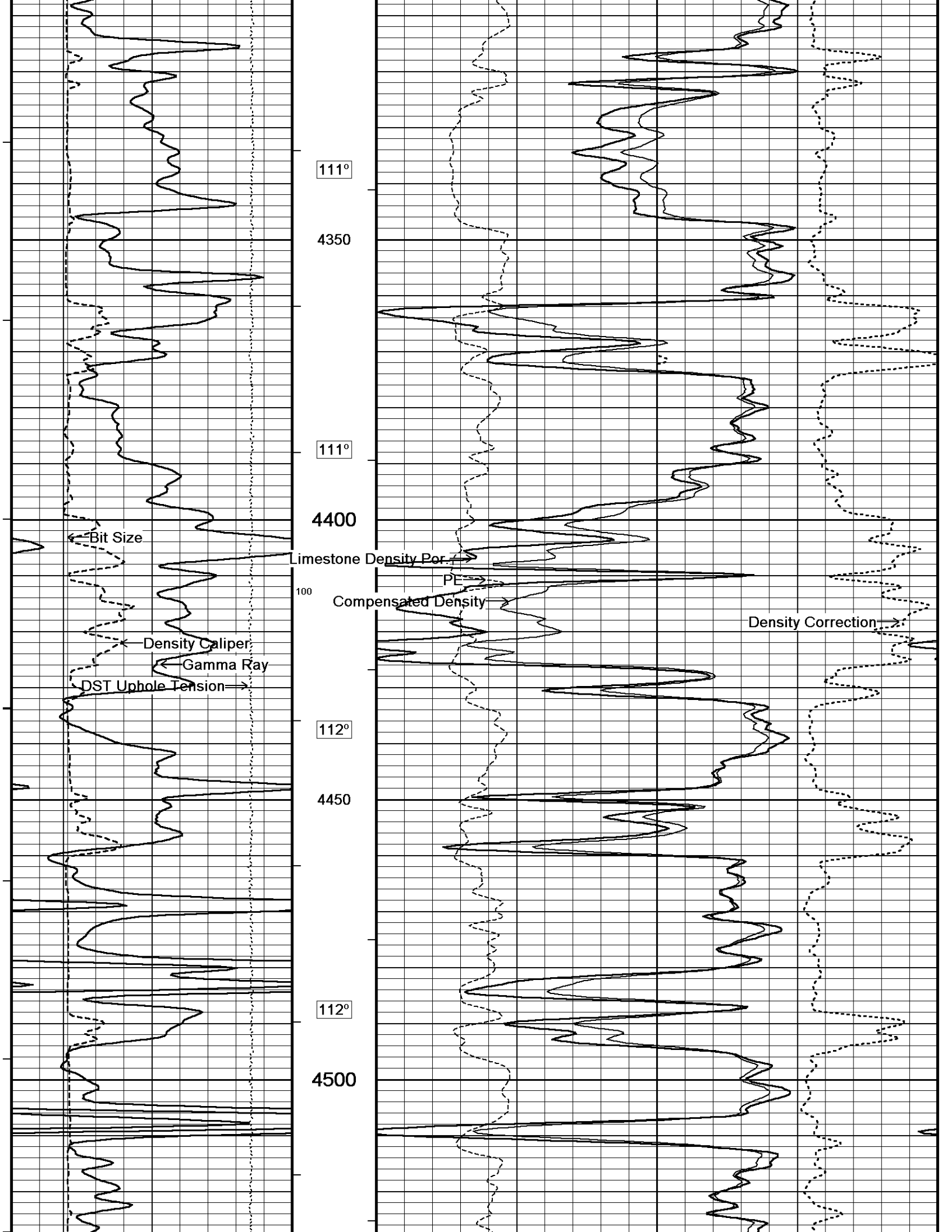
3500  
107°  
3550  
107°  
3600  
107°

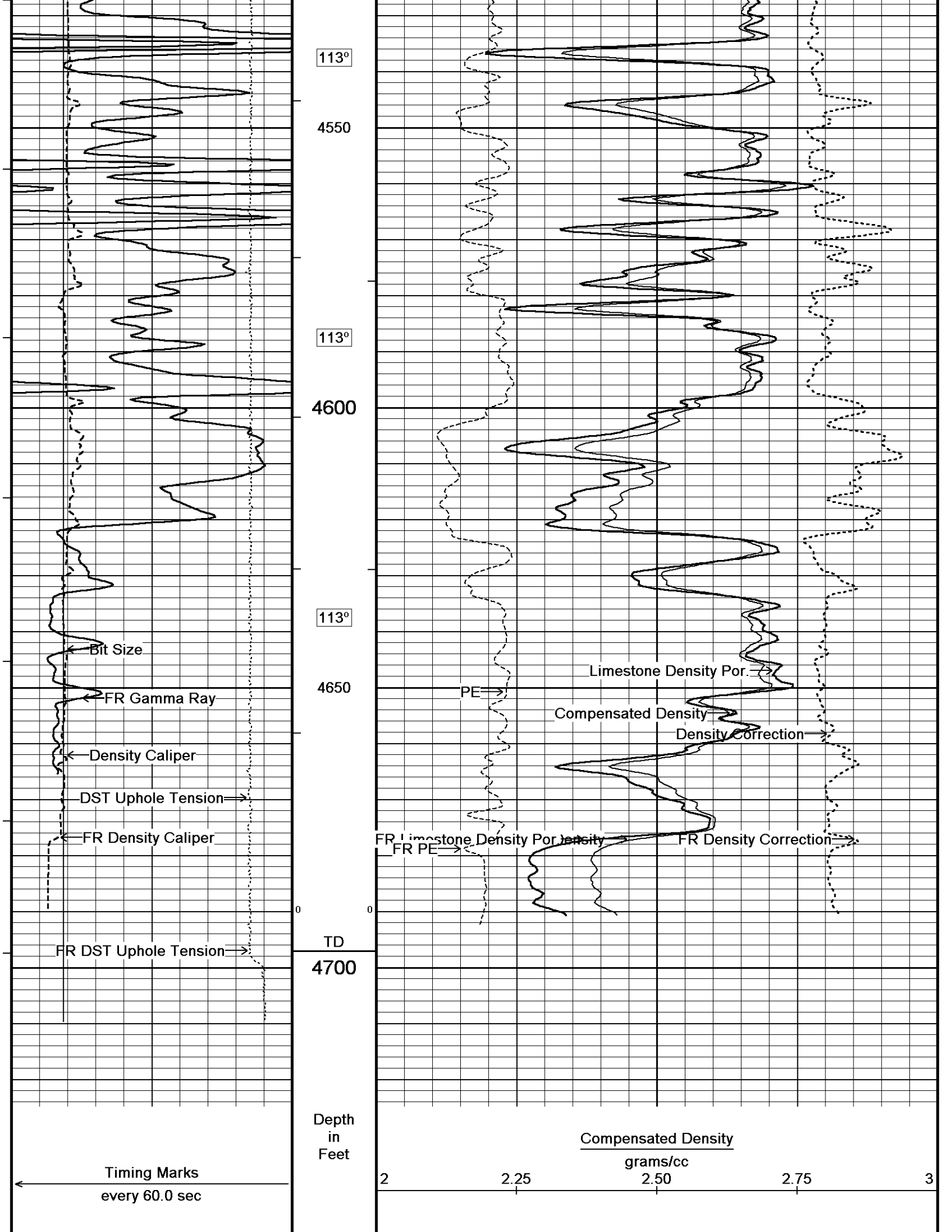


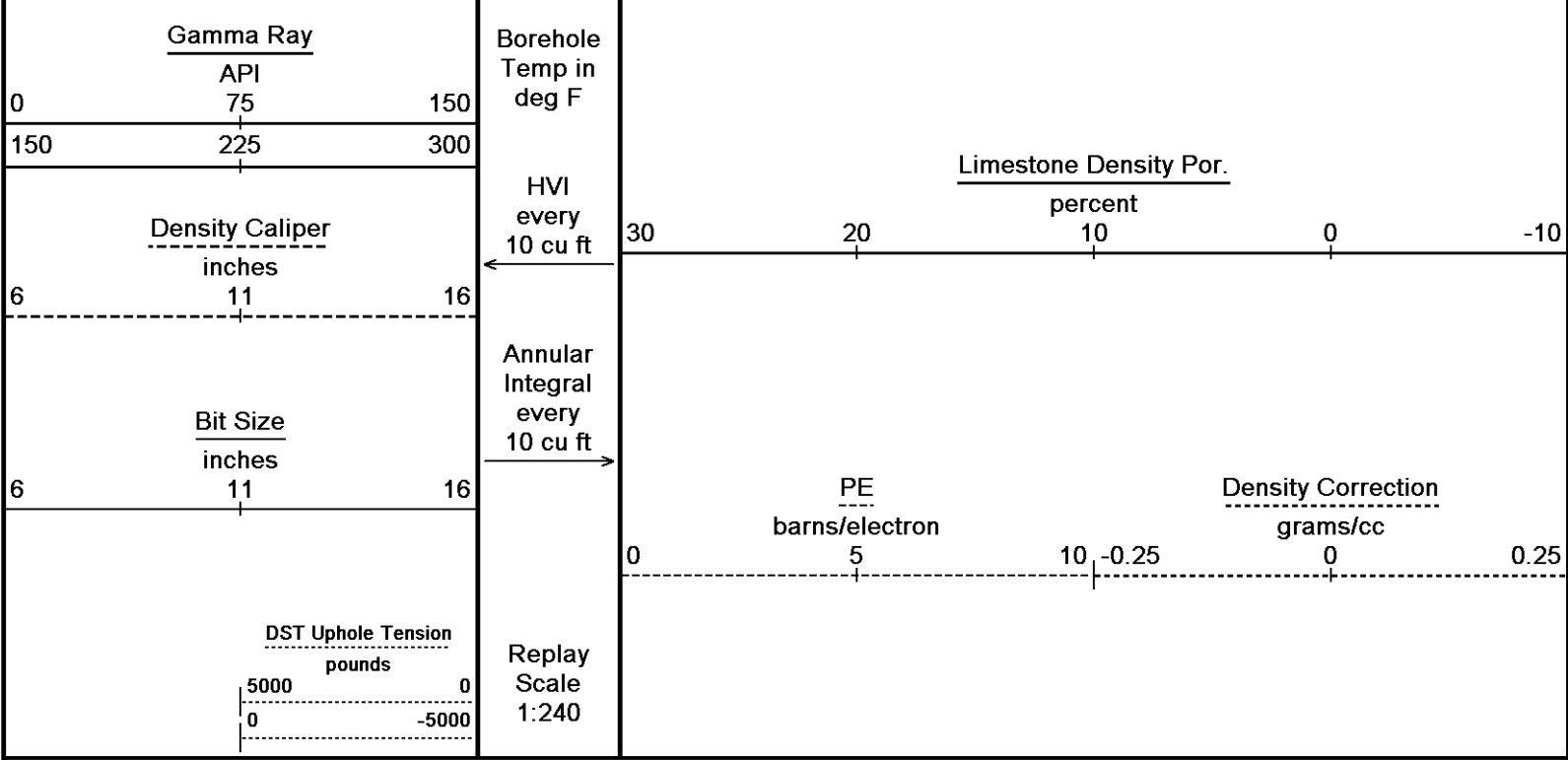










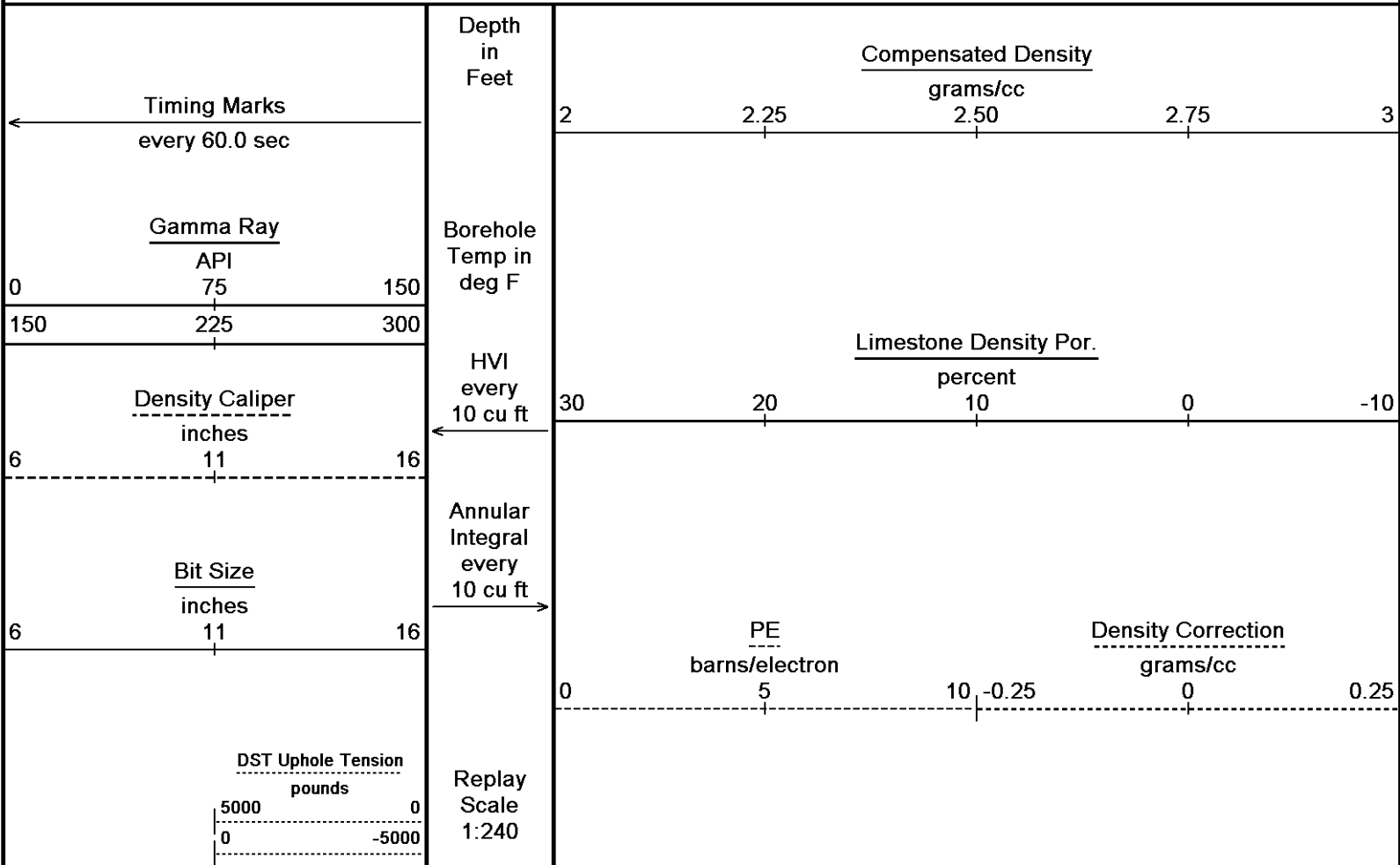


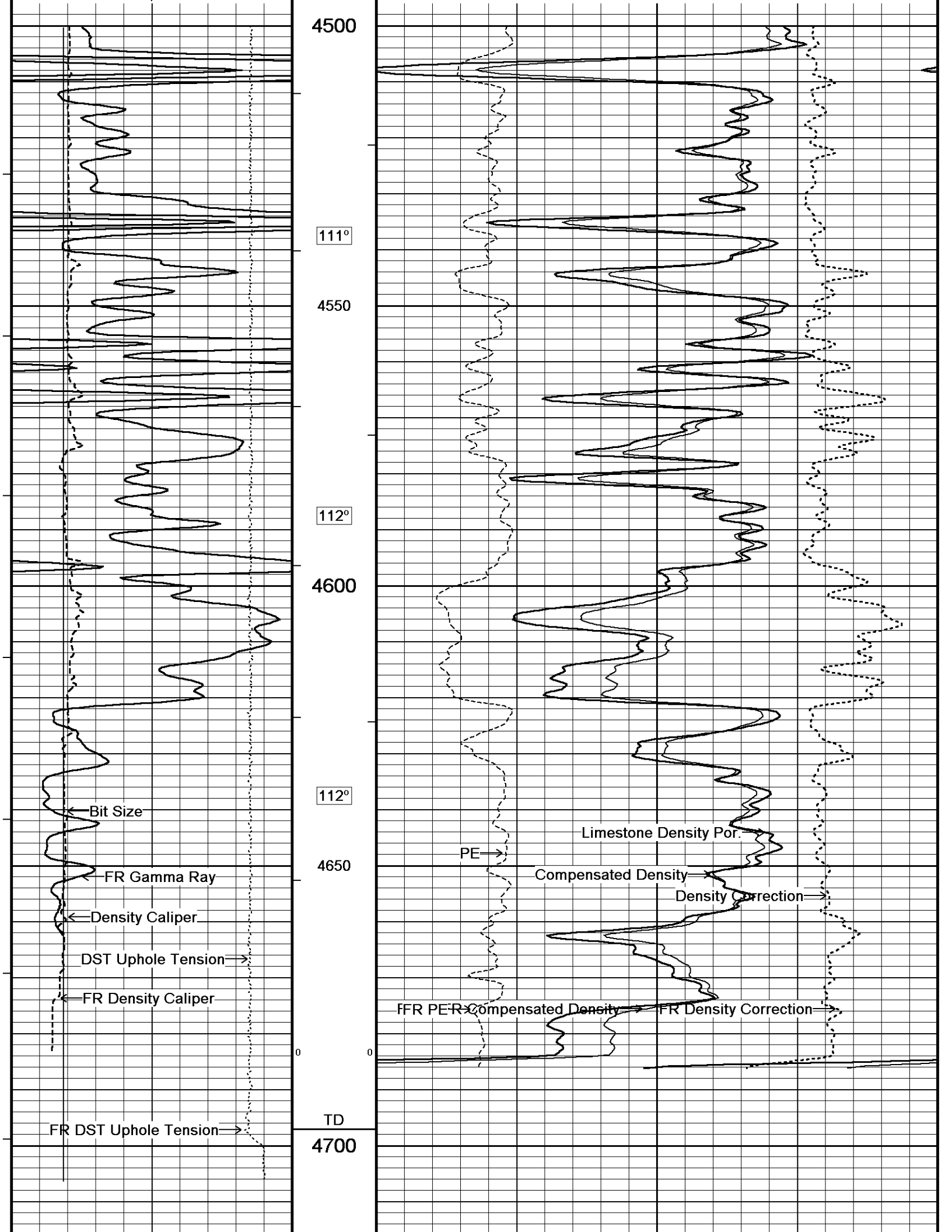
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-APR-2011 06:14  
 Filename: C:\Program Files\Weatherford\WLS 11.03\Data\Shakespeare Glassman 5-35 Reprocess.dta Recorded on 04-APR-2011 02:32  
 System Versions: Processed with 11.03.3274 Plotted with 11.03.3274

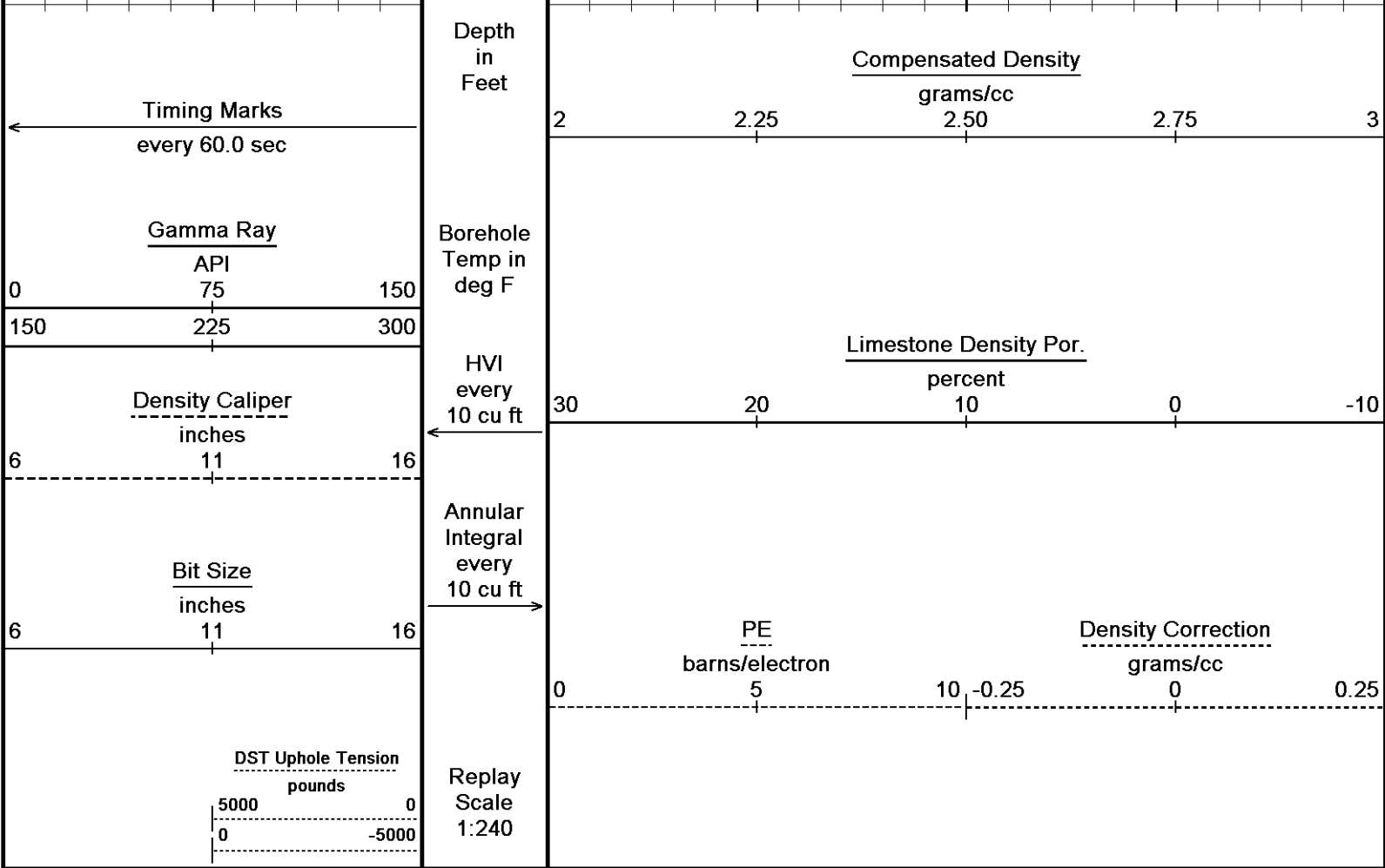
↑ 5 INCH MAIN PASS ↑

↓ 5 INCH REPEAT ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-APR-2011 06:14  
 Filename: C:\Program Files\Weatherford\WLS 11.03\Data\Shakespeare Glassman #5-35\_001.dta Recorded on 04-APR-2011 02:12  
 System Versions: Logged with 11.03.3274 Plotted with 11.03.3274







Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 04-APR-2011 06:14  
 Filename: C:\Program Files\Weatherford\WLS 11.03\Data\Sh...Shakespeare Glassman #5-35\_001.dta  
 Recorded on 04-APR-2011 02:12  
 System Versions: Logged with 11.03.3274 Plotted with 11.03.3274

↑ 5 INCH REPEAT ↑

**BEFORE SURVEY CALIBRATION**

C:\Program Files\Weatherford\WLS 11.03\Data\Shakespeare Glassman #5-35\Shakespeare Glassman #5-35.dta

General Constants All 000 Last Edited on 04-APR-2011,00:33

General Parameters

|                             |          |            |
|-----------------------------|----------|------------|
| Mud Resistivity             | 1.830    | ohm-metres |
| Mud Resistivity Temperature | 55.000   | degrees F  |
| Water Level                 | 0.000    | feet       |
| Density/Neutron 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   | 1.000                 |  |
| RWA Constant M   | 2.000                 |  |

High Resolution Temperature Calibration MCG-B 34 Field Calibration on 19-OCT-2009,11:45

|       |          |                   |
|-------|----------|-------------------|
|       | Measured | Calibrated(Deg F) |
| Lower | 50.00    | 50.00             |
| Upper | 75.00    | 75.00             |

High Resolution Temperature Constants MCG B 34 Last Edited on

Pre-filter Length

11

## SP Calibration MCG-B 34

Field Calibration on 9-NOV-2009,18:07

|             | Measured | Calibrated (mV) |
|-------------|----------|-----------------|
| Reference 1 | 107.7    | 100.0           |
| Reference 2 | -93.8    | -100.0          |

## Gamma Calibration MCG-B 34

Field Calibration on 03-APR-2011 20:44

|                    | Measured | Calibrated (API) |
|--------------------|----------|------------------|
| Background         | 65       | 46               |
| Calibrator (Gross) | 1098     | 771              |
| Calibrator (Net)   | 1033     | 725              |

## Gamma Constants MCG-B 34

Last Edited on 04-APR-2011,00:34

|                               |          |       |
|-------------------------------|----------|-------|
| Gamma Calibrator Number       | grc38    |       |
| Mud Density                   | 1.14     | gm/cc |
| Caliper Source for Processing | Bit Size |       |
| Tool Position                 | Centred  |       |
| Concentration of KCl          | 0.00     | kppm  |

## Micro Normal and Micro Inverse Calibration MML-A 4

Base Calibration on 27-MAR-2011 22:52

Field Check on 03-APR-2011 20:31

## Base Calibration

| Channel       | Measured   |            | Calibrated (ohm-m) |            |
|---------------|------------|------------|--------------------|------------|
|               | Resistor 1 | Resistor 2 | Resistor 1         | Resistor 2 |
| Micro Normal  | 12.1       | 60.2       | 2.6                | 12.8       |
| Micro Inverse | 15.7       | 78.4       | 1.7                | 8.4        |

| Channel       | Base Check (ohm-m) | Field Check (ohm-m) |
|---------------|--------------------|---------------------|
| Micro Normal  | 32.1               | 32.1                |
| Micro Inverse | 16.3               | 16.3                |

## Micro Normal and Micro Inverse Constants MML-A 4

Last Edited on 30-MAR-2011,02:15

|                        |   |
|------------------------|---|
| Pad Type               | 8-12 in Soft Rubber Inflatable 006-9011-159 |
| Micro Normal K Factor  | 0.5110                                      |
| Micro Inverse K Factor | 0.3380                                      |
| Standoff Offset        | N/A inches                                  |

## Caliper Calibration MML-A 4

Base Calibration on 27-MAR-2011 23:01

Field Calibration on 03-APR-2011 20:33

## Base Calibration

| Reading No | Measured | Calibrator Size (in) |
|------------|----------|----------------------|
| 1          | 14539    | 5.98                 |
| 2          | 18210    | 7.97                 |
| 3          | 21545    | 9.86                 |
| 4          | 25509    | 11.92                |
| 5          | 0        | 0.00                 |
| 6          | N/A      | N/A                  |

## Field Calibration

| Measured Caliper (in) | Actual Caliper (in) |
|-----------------------|---------------------|
| 6.12                  | 5.98                |

## Neutron Calibration MDN-A.B 65

Base Calibration on 31-MAR-2011 09:35

Field Check on 03-APR-2011 20:38

## Base Calibration

|       | Measured |     | Calibrated (cps) |     |
|-------|----------|-----|------------------|-----|
|       | Near     | Far | Near             | Far |
| Ratio | 3086     | 96  | 3714             | 110 |
|       | 32.144   |     | 33.764           |     |

## Field Calibrator at Base

|       | Calibrated (cps) |
|-------|------------------|
| Ratio | 1663 2383        |
|       | 0.698            |

## Field Check

|       | Calibrated (cps) |
|-------|------------------|
| Ratio | 1661 2386        |
|       | 0.696            |

|                                 |                          |           |  |
|---------------------------------|--------------------------|-----------|--|
| Neutron Source Id               | 757                      |           |  |
| Neutron Jig Number              | 5824NE                   |           |  |
| Epithermal Neutron              | No                       |           |  |
| Caliper Source for Processing   | Density Caliper          |           |  |
| Stand-off                       | 0.00                     | inches    |  |
| Mud Density                     | 1.14                     | 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              | MCG External Temperature |           |  |
| Temperature                     | N/A                      | degrees F |  |
| Mud Salinity                    | 0.00                     | kppm      |  |
| Formation Fluid Salinity Source | Constant Value           |           |  |
| Formation Fluid Salinity        | 0.00                     | kppm      |  |
| Barite Mud Correction           | Not Applied              |           |  |

FE Calibration MFE-A.A 55

Base Calibration on 27-MAR-2011 23:08

Field Check on 03-APR-2011 20:24

|                  |          |                    |  |
|------------------|----------|--------------------|--|
| Base Calibration |          |                    |  |
|                  | Measured | Calibrated (ohm-m) |  |
| Reference 1      | 0.0      | 0.0                |  |
| Reference 2      | 953.4    | 126.8              |  |
| Base Check       |          | 281.6              |  |
| Field Check      |          | 281.5              |  |

FE Constants MFE-A.A 55

Last Edited on 03-APR-2011,20:23

|                                  |                          |        |  |
|----------------------------------|--------------------------|--------|--|
| 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 |  |

High Resolution Temperature Calibration MAI-A.A 178

Field Calibration on 28-MAR-2010,00:50

|       |          |                   |  |
|-------|----------|-------------------|--|
|       | Measured | Calibrated(Deg F) |  |
| Lower | 1.00     | 33.80             |  |
| Upper | 11.00    | 51.80             |  |

High Resolution Temperature Constants MAI-A.A 178

Last Edited on

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

Induction Calibration MAI-A.A 178

Base Calibration on 31-MAR-2011,10:05

Field Check on 03-APR-2011 20:23

|                       |                     |          |                      |        |
|-----------------------|---------------------|----------|----------------------|--------|
| Base Calibration      |                     |          |                      |        |
| Test Loop Calibration |                     | Measured | Calibrated (mmho/m)  |        |
| Channel               | Low                 | High     | Low                  | High   |
| 1                     | 17.6                | 484.7    | 9.3                  | 966.2  |
| 2                     | 6.2                 | 391.4    | 7.6                  | 821.4  |
| 3                     | 4.0                 | 264.5    | 5.2                  | 566.0  |
| 4                     | 2.3                 | 135.1    | 2.6                  | 279.2  |
| Array Temperature     |                     | 77.0     | Deg F                |        |
| Channel               | Base Check (mmho/m) |          | Field Check (mmho/m) |        |
|                       | Low                 | High     | Low                  | High   |
| 1                     | 0.0                 | 0.0      | 12.5                 | 3763.3 |
| 2                     | 0.0                 | 0.0      | 29.8                 | 3466.6 |
| 3                     | 0.0                 | 0.0      | 27.2                 | 3014.9 |
| 4                     | 0.0                 | 0.0      | 18.7                 | 2063.8 |
| Deep                  | 0.0                 | 0.0      | 15.8                 | 1995.8 |
| Medium                | 0.0                 | 0.0      | 40.3                 | 3957.3 |
| Shallow               | 0.0                 | 0.0      | 45.8                 | 5081.2 |

Array Temperature

0.0

76.7

Deg F

Induction Constants MAI-A.A 178

Last Edited on 03-APR-2011,20:21

|                                   |                          |                  |            |
|-----------------------------------|--------------------------|------------------|------------|
| 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       |                          | 8.0000           |            |
| Stand-off Fin Angle               |                          | 45.00            | 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   |         |

Caliper Calibration MPD-B 65

Base Calibration on 26-MAR-2011 21:35  
Field Calibration on 03-APR-2011 20:30

|                  |          |                      |
|------------------|----------|----------------------|
| Base Calibration |          |                      |
| Reading No       | Measured | Calibrator Size (in) |
| 1                | 13025    | 3.99                 |
| 2                | 21664    | 5.98                 |
| 3                | 30144    | 7.97                 |
| 4                | 38507    | 9.86                 |
| 5                | 47728    | 11.92                |
| 6                | N/A      | N/A                  |

|                   |                       |                     |
|-------------------|-----------------------|---------------------|
| Field Calibration |                       |                     |
|                   | Measured Caliper (in) | Actual Caliper (in) |
|                   | 5.92                  | 5.98                |

Photo Density Calibration MPD-B 65

Base Calibration on 26-MAR-2011 21:55  
Field Check on 03-APR-2011 20:29

|                     |        |          |                  |       |
|---------------------|--------|----------|------------------|-------|
| Density Calibration |        |          |                  |       |
| Base Calibration    |        |          |                  |       |
|                     |        | Measured | Calibrated (sdu) |       |
|                     | Near   | Far      | Near             | Far   |
| Reference 1         | 50493  | 24334    | 59556            | 30836 |
| Reference 2         | 20772  | 2298     | 24941            | 2541  |
| Field Check at Base |        |          |                  |       |
|                     | 1251.7 | 1197.0   |                  |       |
| Field Check         |        |          |                  |       |
|                     | 1252.6 | 1200.6   |                  |       |

PE Calibration

| Base Calibration    |       | Measured |       | Calibrated |
|---------------------|-------|----------|-------|------------|
|                     | WS    | WH       | Ratio | Ratio      |
| Background          | 228   | 1114     |       |            |
| Reference 1         | 19703 | 50302    | 0.396 | 0.371      |
| Reference 2         | 5658  | 20626    | 0.278 | 0.272      |
| Field Check at Base |       |          |       |            |
|                     | 227.6 | 1114.3   |       |            |
| Field Check         |       |          |       |            |
|                     | 226.2 | 1117.6   |       |            |

Density Constants MPD-B 65

Last Edited on 04-APR-2011,00:33

|                               |                 |       |
|-------------------------------|-----------------|-------|
| Density Source Id             | 254             |       |
| Nylon Calibrator Number       | DNCE695         |       |
| Aluminium Calibrator Number   | DACD698         |       |
| 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            |       |
| 0.00                          | 0.00            |       |

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 11.03\Data\Shakespeare Glassman #5-35\Shakespeare Glassman #5-35.dta

Compact Comms Gamma  
MCG-B 34 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Comms Gamma  
MCG-B 34 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log  
MML-A 4 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

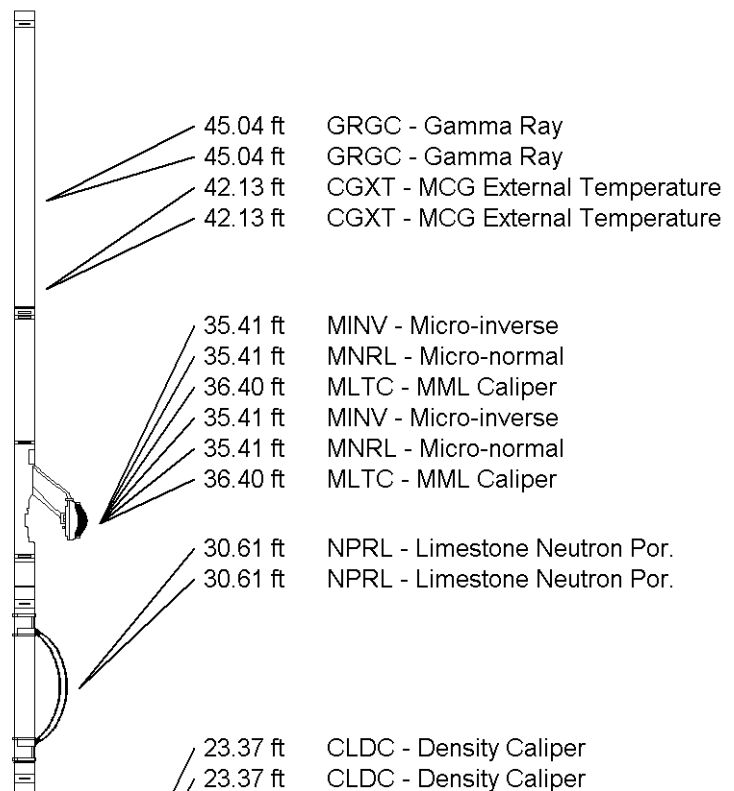
Compact Micro-log  
MML-A 4 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron  
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Neutron  
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper  
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Density/Caliper  
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in



SKJ-D.A Compact Knuckle Joint  
 SKJ-D.A 37 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint  
 SKJ-D.A 37 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric  
 MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

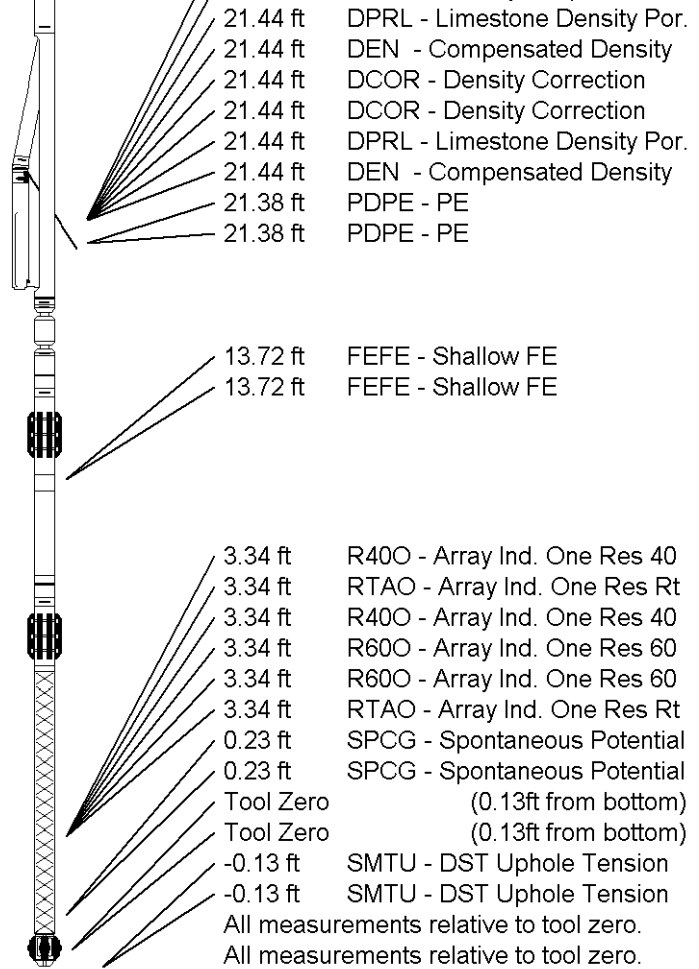
Compact Focussed Electric  
 MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction  
 MAI-A.A 178 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Compact Induction  
 MAI-A.A 178 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 50.32 ft Weight: 407.9 lb

Total Length: 50.32 ft Weight: 407.9 lb



|                 |                         |
|-----------------|-------------------------|
| COMPANY         | SHAKESPEARE OIL COMPANY |
| WELL            | GLASSMAN #5-35          |
| FIELD           | UNNAMED                 |
| PROVINCE/COUNTY | LOGAN                   |
| COUNTRY/STATE   | U.S.A. / KANSAS         |

|                         |         |      |               |         |      |
|-------------------------|---------|------|---------------|---------|------|
| Elevation Kelly Bushing | 2994.00 | feet | First Reading | 4676.00 | feet |
| Elevation Drill Floor   | 2992.00 | feet | Depth Driller | 4700.00 | feet |
| Elevation Ground Level  | 2984.00 | feet | Depth Logger  | 4697.00 | feet |



COMPACT PHOTO DENSITY  
 COMPENSATED NEUTRON  
 MICRORESISTIVITY LOG

