

**RECON**

COMPENSATED NEUTRON  
LITHOLOGY DENSITY  
GAMMA RAY X-Y CALIPER  
MICROLOG

|                      |             |      |       |      |   |
|----------------------|-------------|------|-------|------|---|
| Date                 | 07-DEC-2014 |      |       |      |   |
| Run No.              | ONE         |      |       |      |   |
| TD Driller           | 5250        | ft.  |       | ft.  |   |
| TD RECON             | 5242        | ft.  |       | ft.  |   |
| Bot Logged Interval  | 5241        | ft.  |       | ft.  |   |
| Top Logged Interval  | 400         | ft.  |       | ft.  |   |
| Casing Depth Driller | 8 518       | in.  | ② 437 | in.  | ② |
| Casing Depth RECON   | 8 518       | in.  | ② 437 | in.  | ② |
| Bit Size             | 7 718       | in.  |       | in.  |   |
| Drilling Fluid Type  | WBM         |      |       |      |   |
| Density              | 9.5         |      | 70    |      |   |
| Fluid Loss           | PH          |      | 10    |      |   |
| Source Of Sample     | Flowline    |      |       |      |   |
| RM ② Measured Temp   | 2.45        | Ohmm | ② 75  | Ohmm | ② |
| RMF ② Measured Temp  | 1.84        | Ohmm | ② 75  | Ohmm | ② |
| RMC ② Measured Temp  | 3.06        | Ohmm | ② 75  | Ohmm | ② |

|                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>All interpretations are based on inferences from electrical or other readings, and therefore, RECON cannot and will not guarantee the accuracy of any interpretations of log data. RECON shall not be liable for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from</b></p> | <p><b>interpretations made by any of our officers, agents or employees, except in the case of provable Gross Negligence or willfull damage. Interpretations are also subject to the terms and conditions of our Price Schedule and General Service Agreement.</b></p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                  |            |
|------------------|------------|
| Drill Contr/Rig# | WILDCAT #1 |
|                  |            |

|                                                                                                                                                                                                                                                                |                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <p>FIRST RUN IN THE HOLE</p> <p>CNL AND LDT LOGGED IN A LIMESTONE MATRIX</p> <p>TOP MARK - 567, BOTTOM MARK - 5071.8</p> <p>CNL/LDT LOGGED MATRIX: 2.71 g/cc.</p> <p>CHLORIDES: 4000</p> <p>LCM: 2</p> <p>THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.</p> | <p>AHV CALCULATED ON 5.5" PROD. CASING</p> <p>CREW: J.ROSE</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

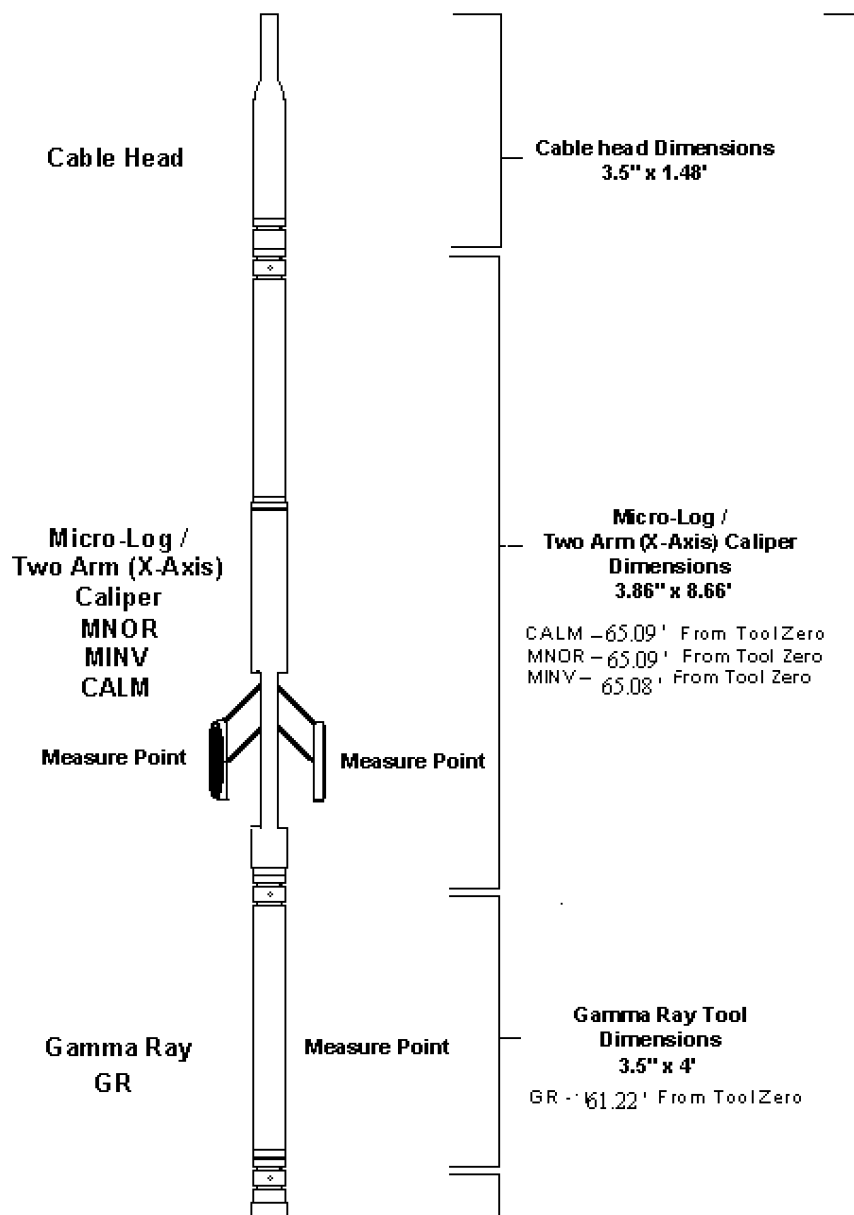
# CEMENT VOLUME CALCULATIONS SUMMARY

|               |                 |                            |                  |                |
|---------------|-----------------|----------------------------|------------------|----------------|
| Tool Type     | LDT-CNT         | Caliper Type               |                  |                |
| Tool Serial # | RN2007 / RL4101 |                            |                  |                |
|               | Borehole Total  | Annular Volume with Casing | From Depth (MKb) | To Depth (MKb) |
| VOLUMES       | 1844 Cubic Feet | 1044 Cubic Feet            | 400              | 5242           |

## CASING INFORMATION

|                     | SIZE (in) | GRADE | WEIGHT (lbs/ft) | ID (in) | TOP DEPTH | BOT DEPTH |
|---------------------|-----------|-------|-----------------|---------|-----------|-----------|
| SURFACE CASING      | 8 5/8     | N/A   | 24              | 8.098   | Surface   | 437       |
| INTERMEDIATE CASING | N/A       | N/A   | N/A             | N/A     | Surface   | N/A       |
| PRODUCTION CASING   | 5 1/2     | N/A   | 15.5            | 4.950   | Surface   | N/A       |
|                     |           |       |                 |         |           |           |

DUAL INDUCTION - SP / BHC SONIC /  
GAMMA RAY / LITHO-DENSITY / X CALIPER  
COMPENSATED NEUTRON / Y-CALIPER  
MICRO - LOG / M-CALIPER



Compensated Neutron  
Y - Axis Caliper  
NP (SS,LS,DL)  
CALY

Compensated Neutron  
Y-Axis Caliper  
Dimensions  
3.98" x 10.25'

CALY - 52.89' From ToolZero  
CNL LS - 52.07' From ToolZero  
CNL SS - 51.48' From ToolZero

Measure Point

Digital Telemetry

Digital Telemetry Section  
Dimensions  
3.5" x 3.15'

Tool String  
Length Total  
73.64'

Compensated  
Litho-Density (Pe)  
X - Axis Caliper

Compensated Litho-Density  
X-Axis Caliper  
Dimensions  
3.98" x 9.35'

DP( SS,LS,DL)  
RHOB  
DRHO  
PE  
CALX

CALX - 38.94' From ToolZero  
LDT w1 -  
LDT w2 -  
LDT w3 -  
LDT w4 -  
-38.68' From ToolZero  
LDT SS - 38.19' From ToolZero

Measure Point

Borehole  
Compensated  
Sonic

T-1  
Transmitter 1

Borehole Compensated Sonic  
Tool Dimensions  
3.5" x 15.75'

SP(SS,LS,DL)  
DT  
TTI  
VDL  
TT

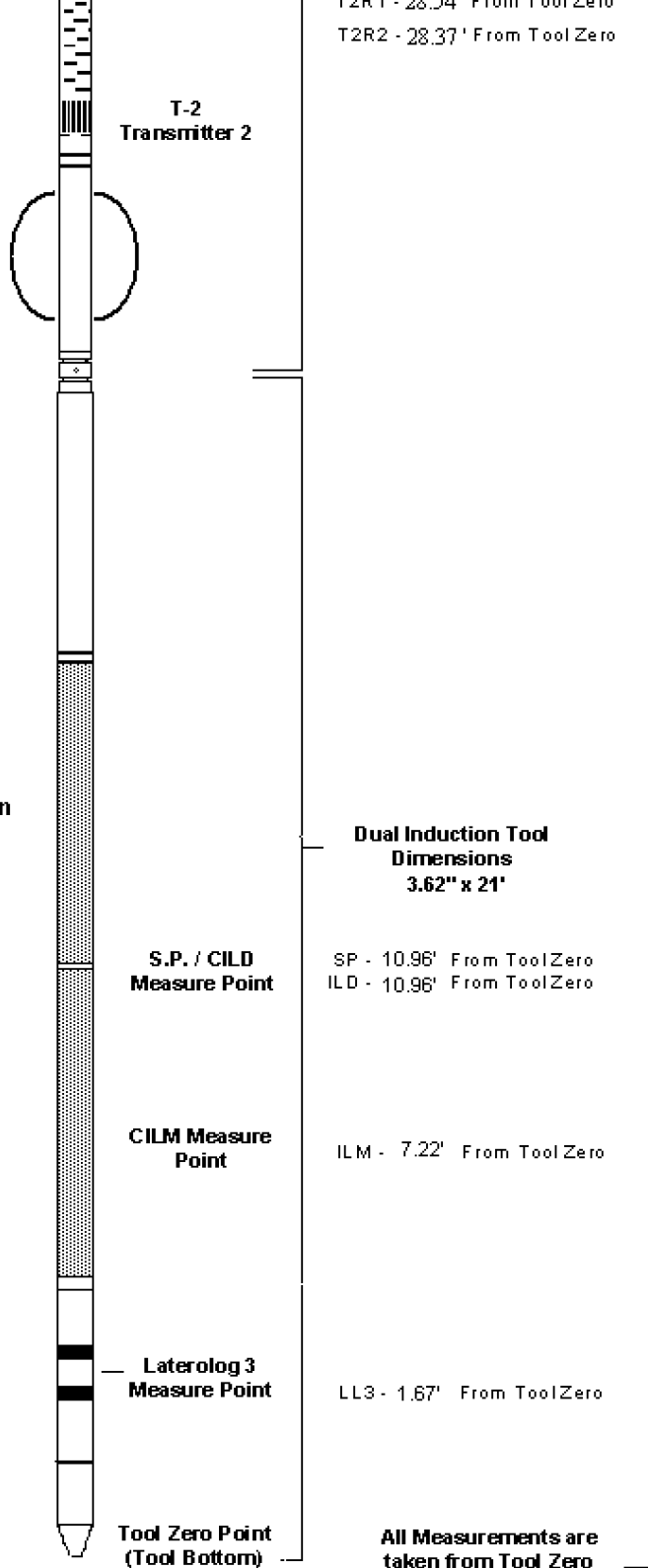
T1R1 - 33.35' From ToolZero  
T1R2 - 31.35' From ToolZero

Measure Point  
Tool First Reading  
Point

R-1  
Receiver 1

R-2  
Receiver 2

TDR1 - 28.54' From ToolZero

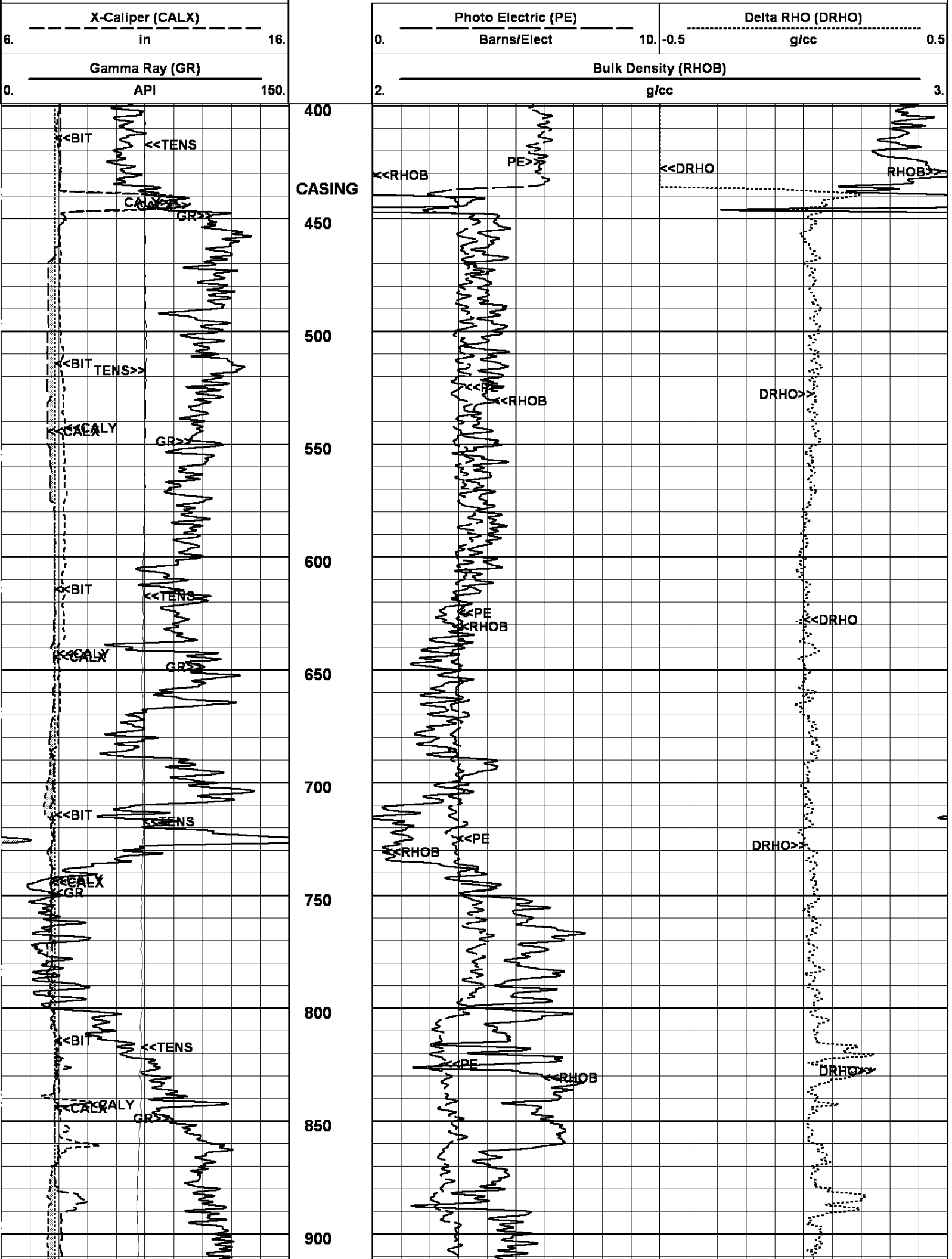


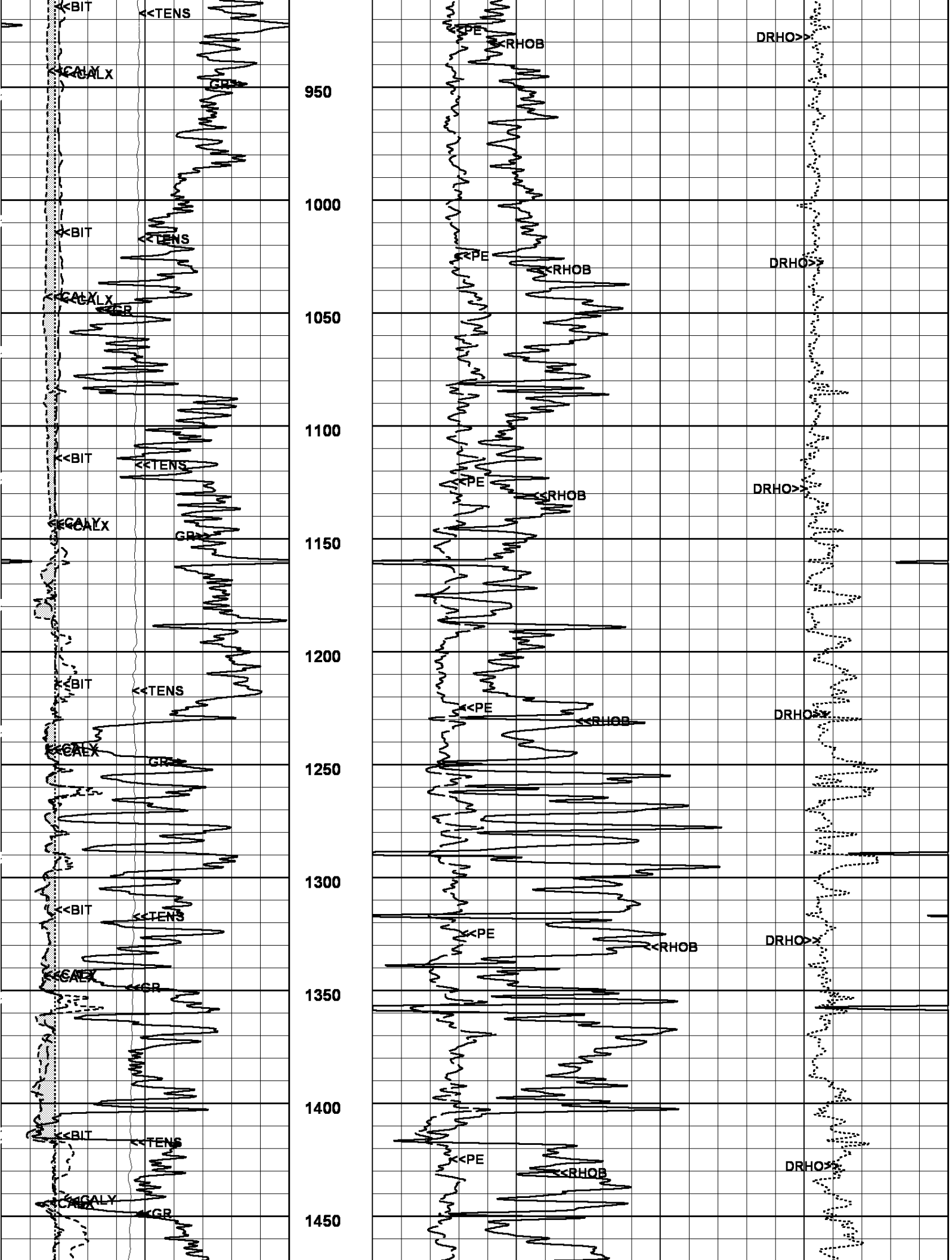
12/07/2014  
22:42:19 => End Time

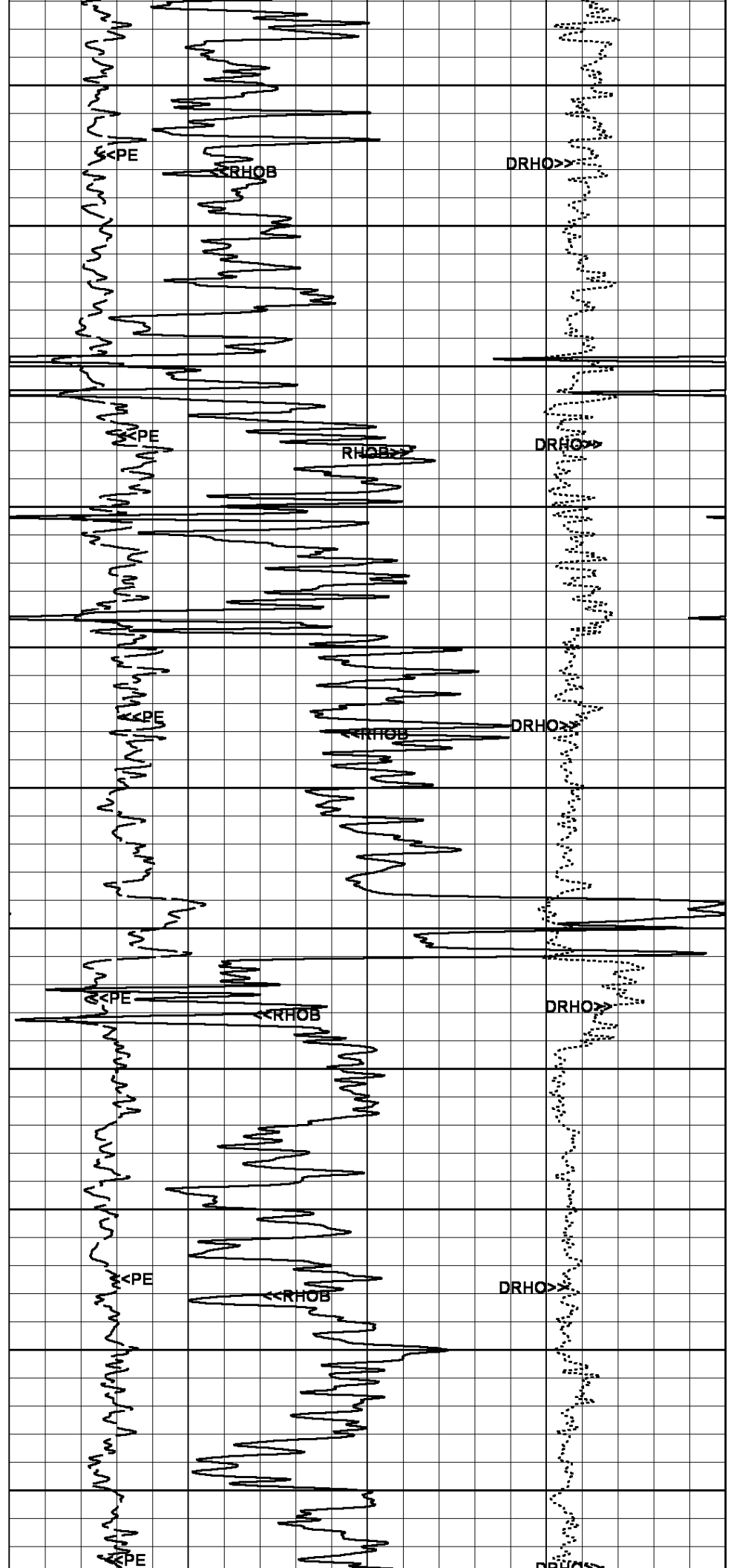
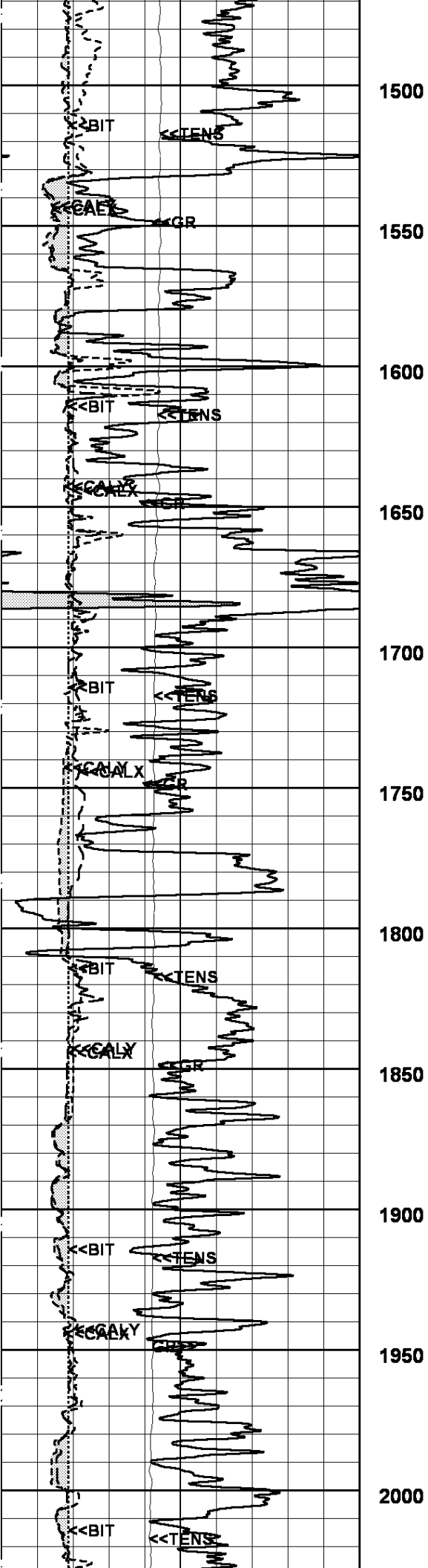
**MAIN PASS - RHOB (2"/100Ft)**

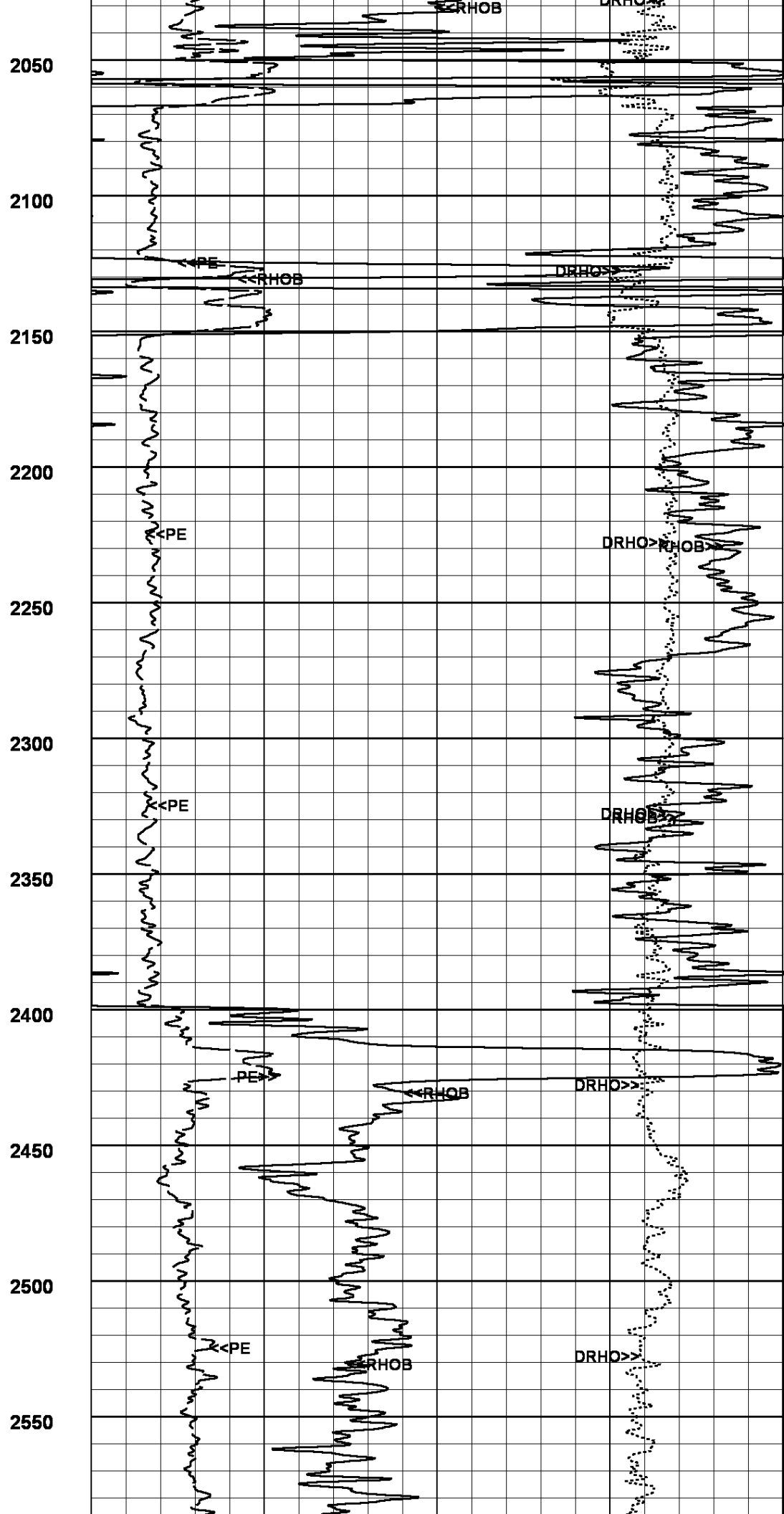
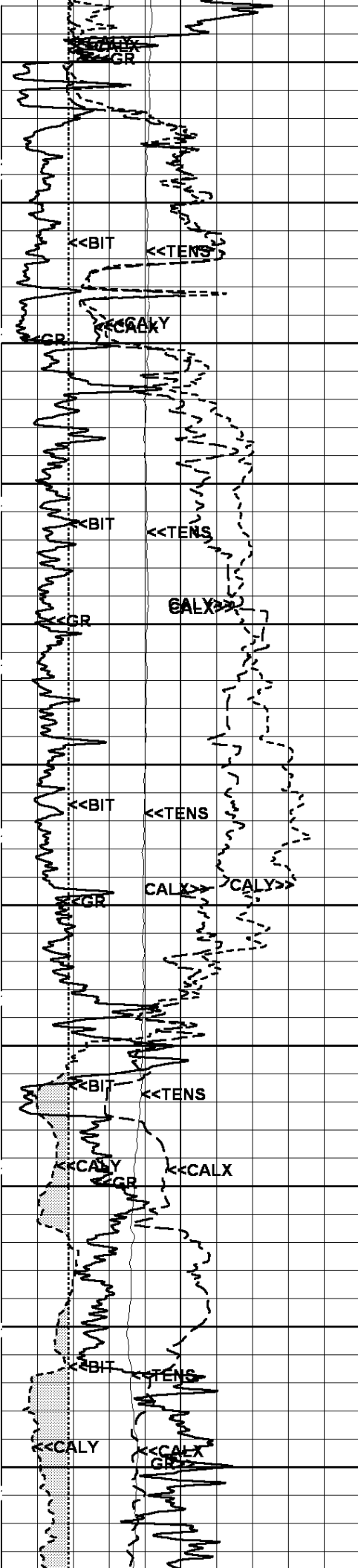
Log UP - (VER 11.10)  
End Depth=> 399.75 Feet

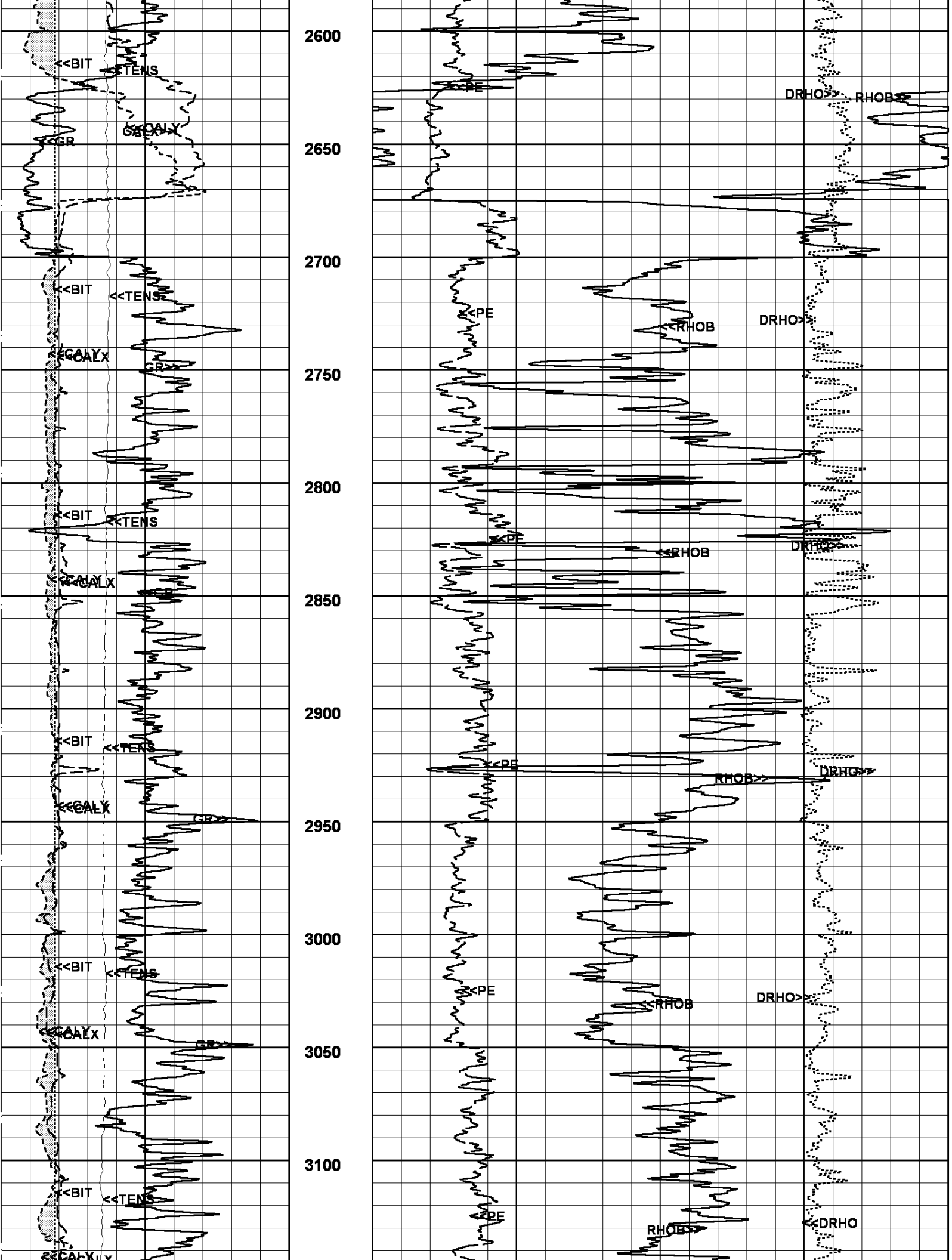
|                  |        |     |
|------------------|--------|-----|
| Bit Size (BIT)   |        |     |
| 6.               | Ref in | 16. |
| Tension (TENS)   |        |     |
| 5000.            | Lbs    | 0.  |
| Y-Caliper (CALY) |        |     |
| 6.               | in     | 16. |

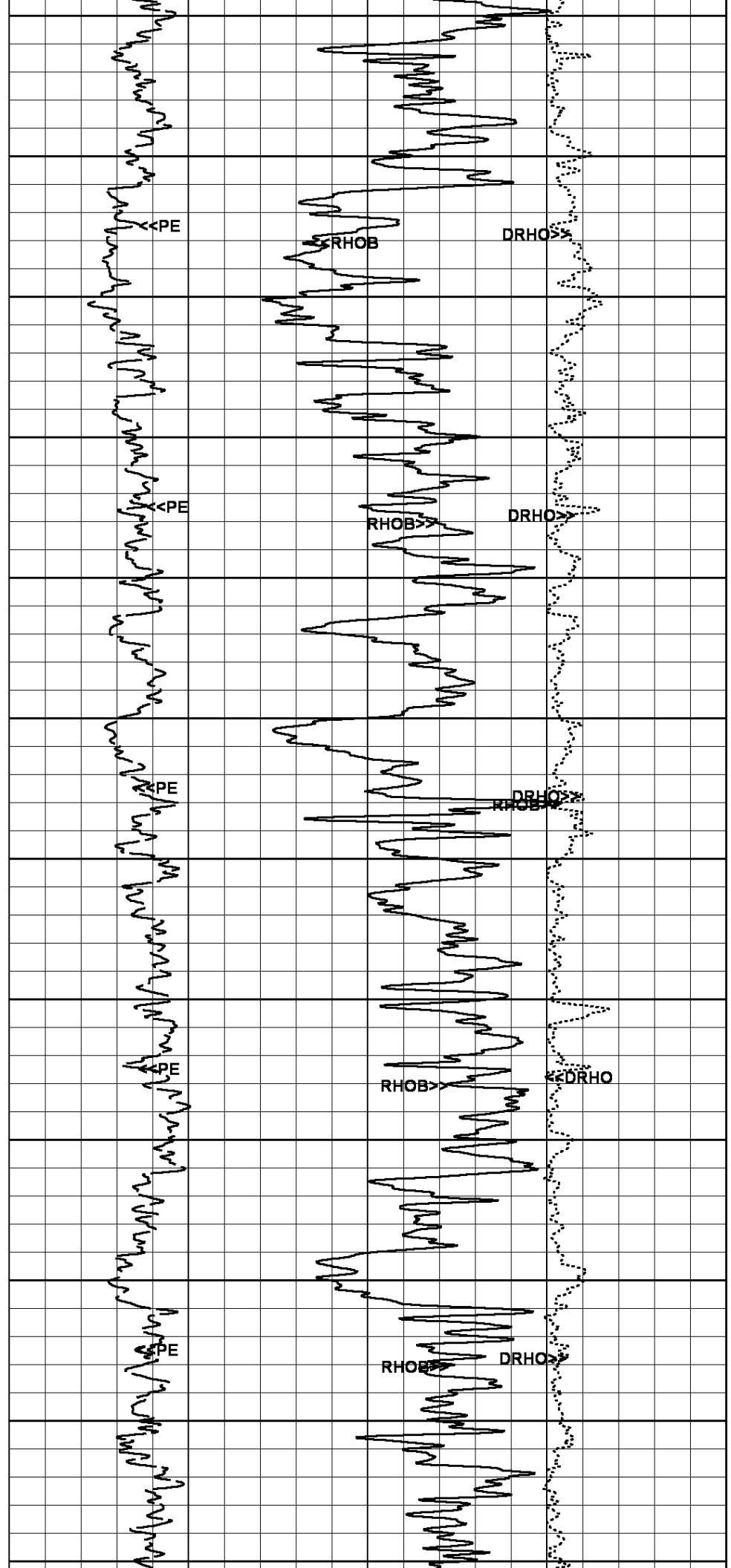
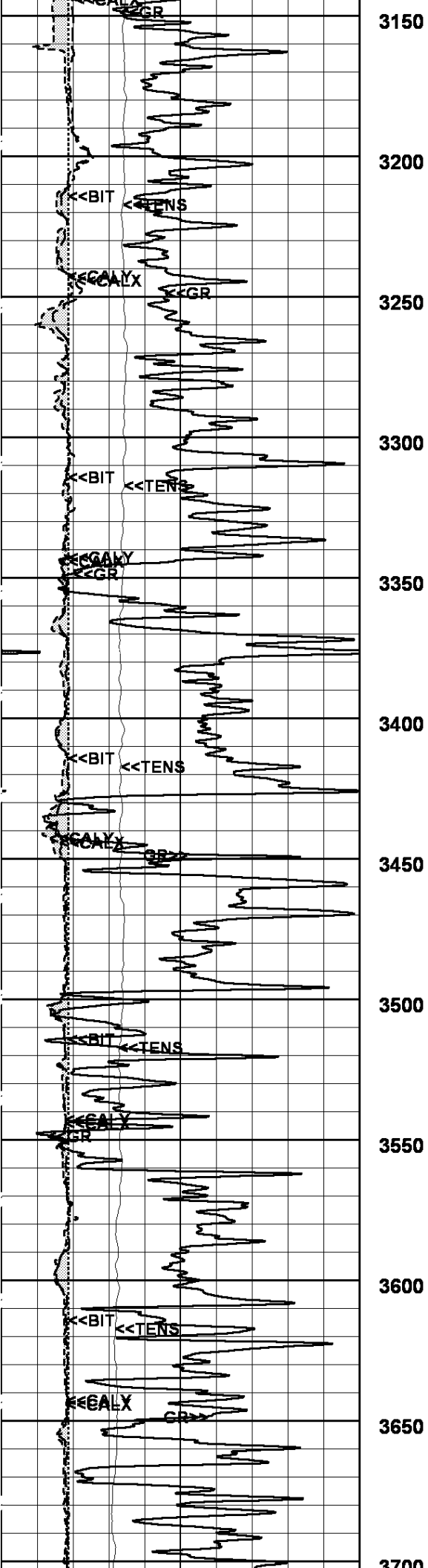


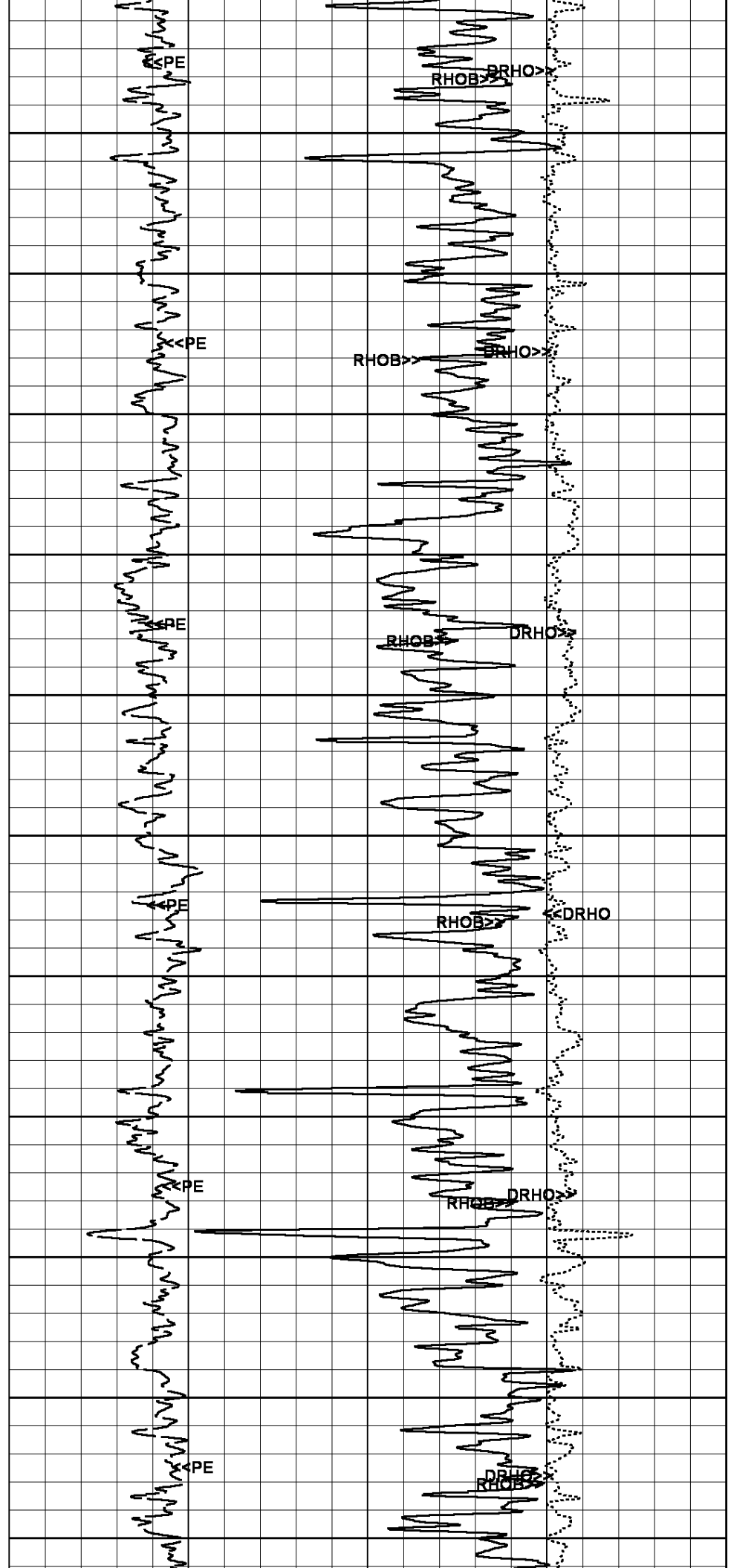
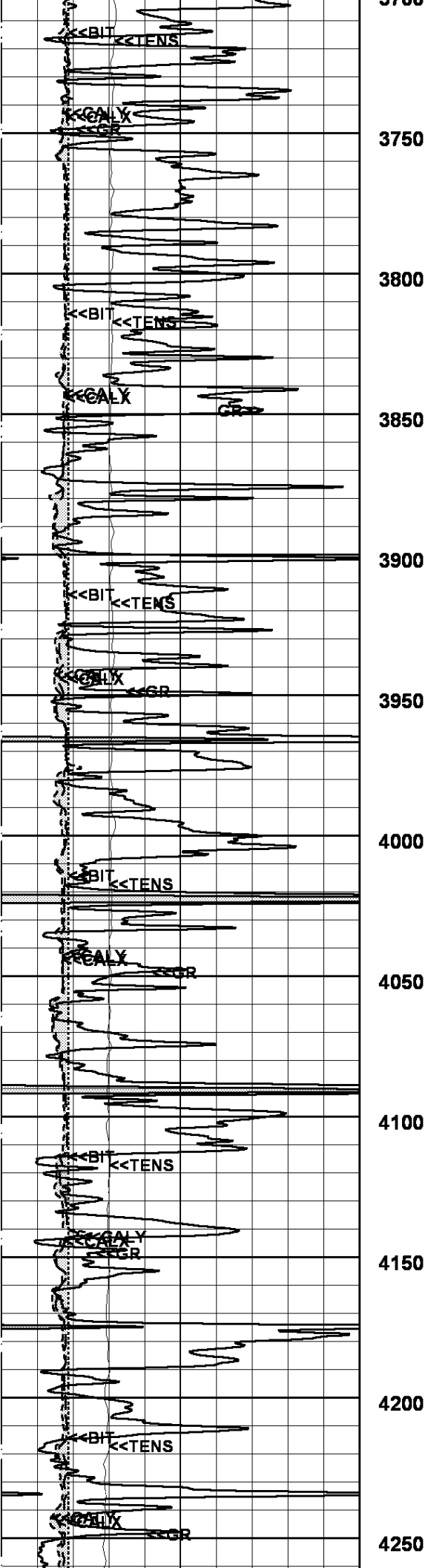


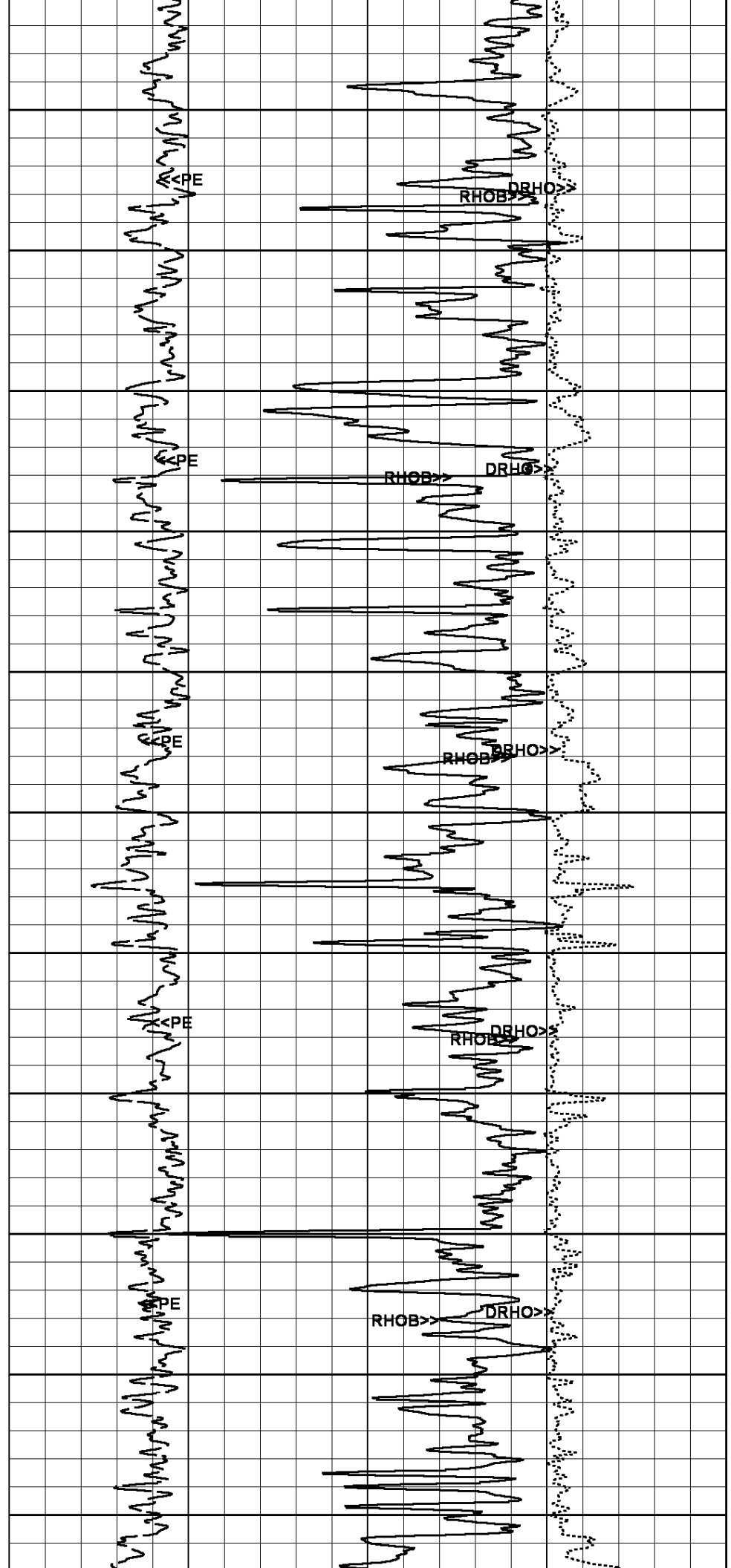
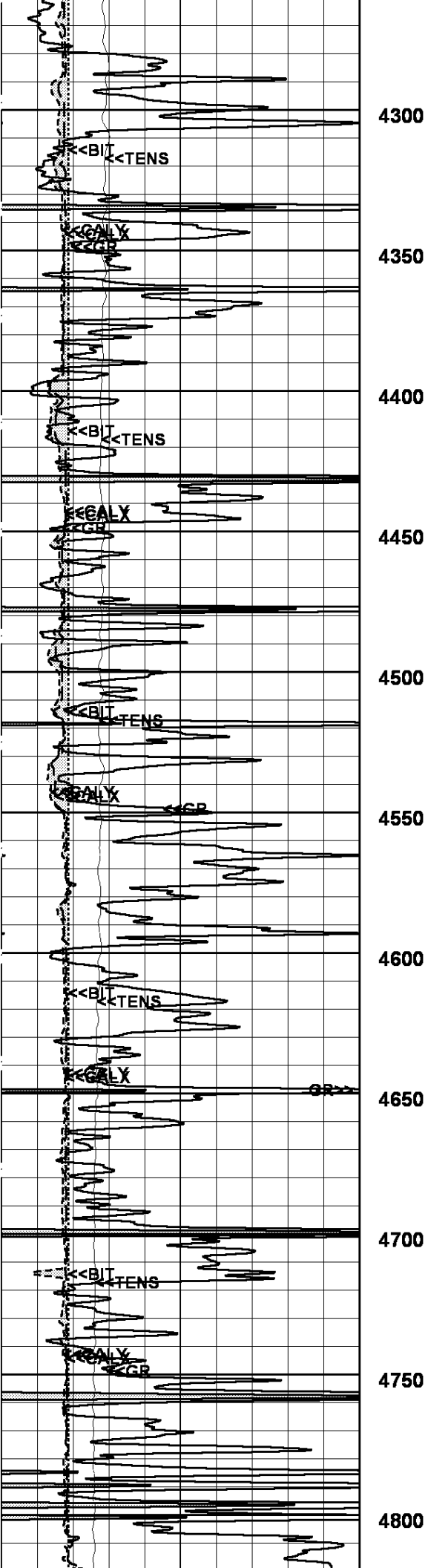


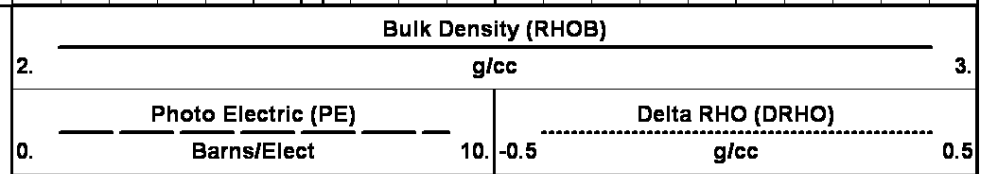
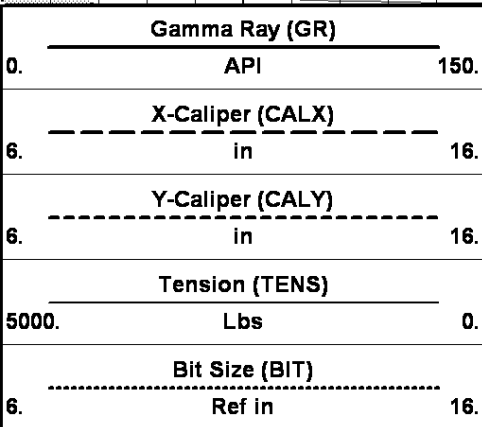
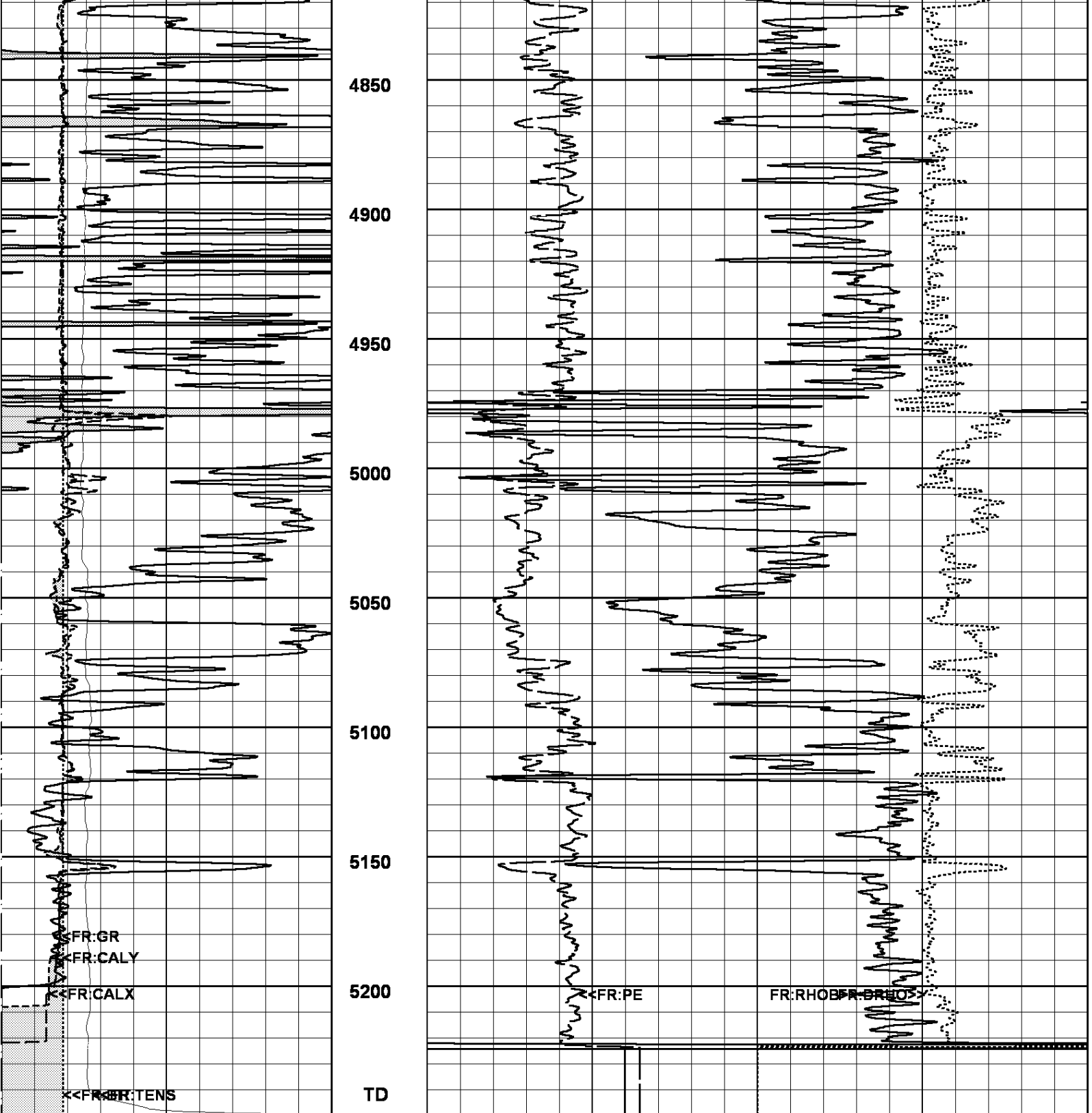












12/07/2014

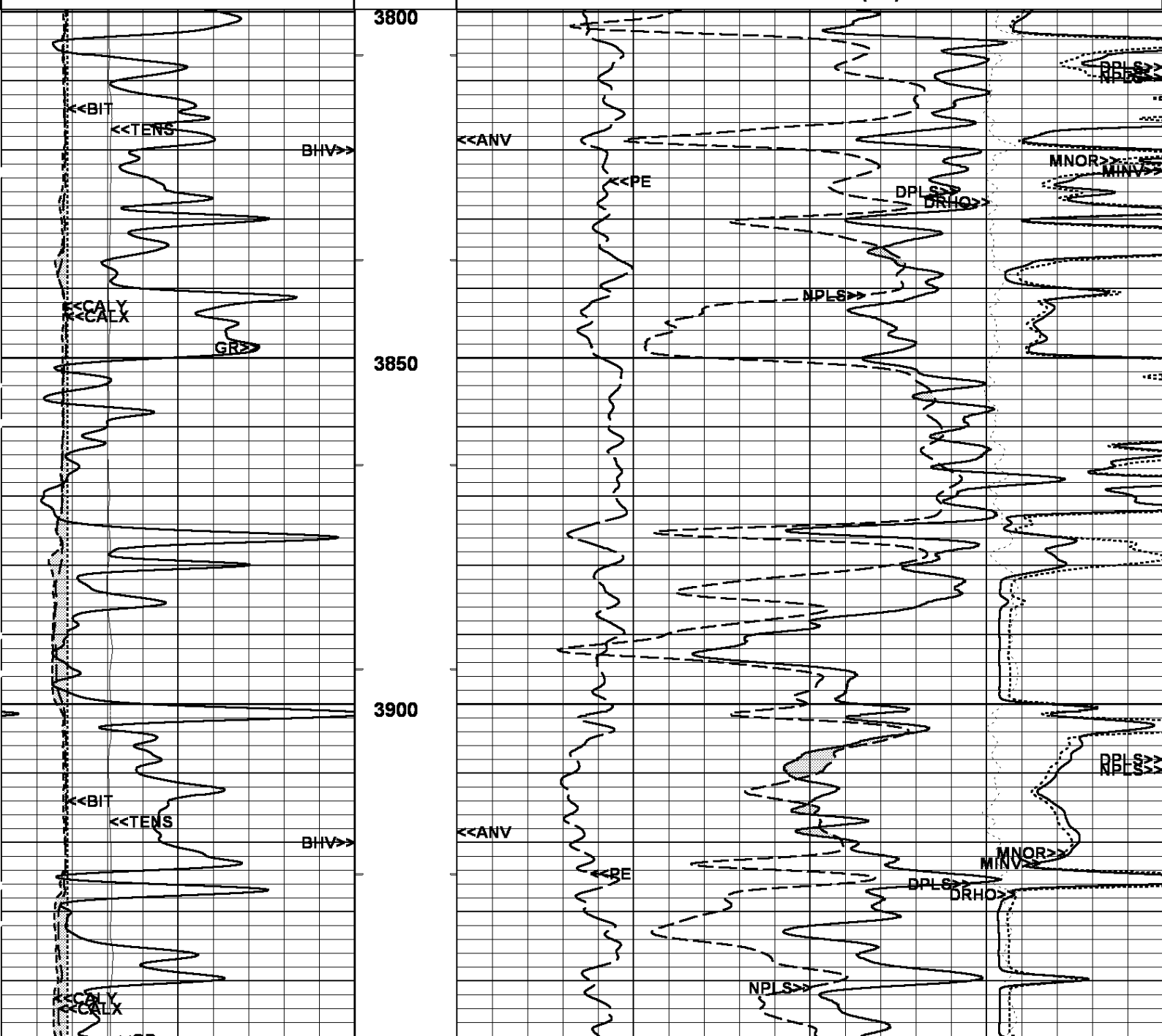
# MAIN PASS - LIMESTONE (5"/100Ft)

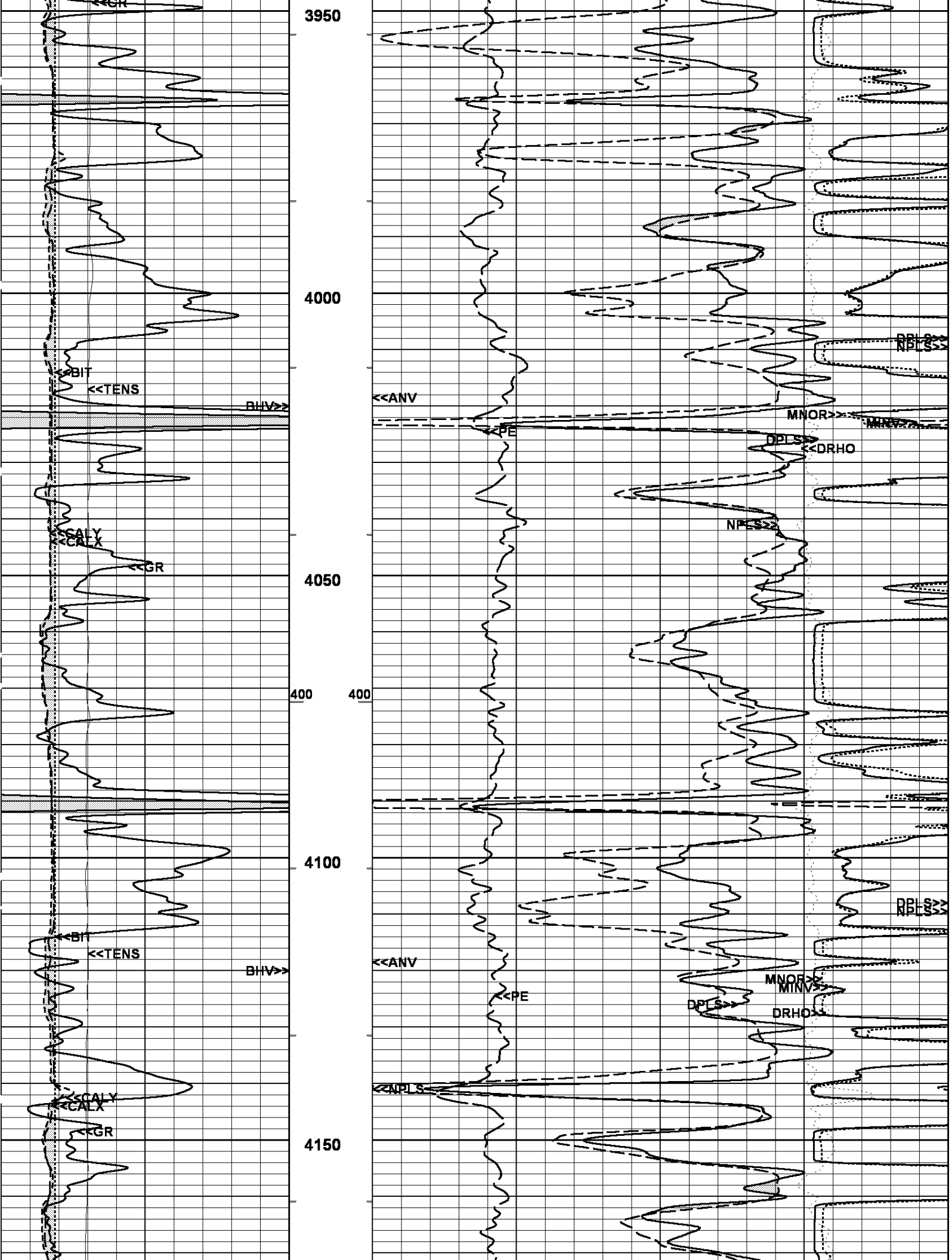
Log UP - (VER 11.10)

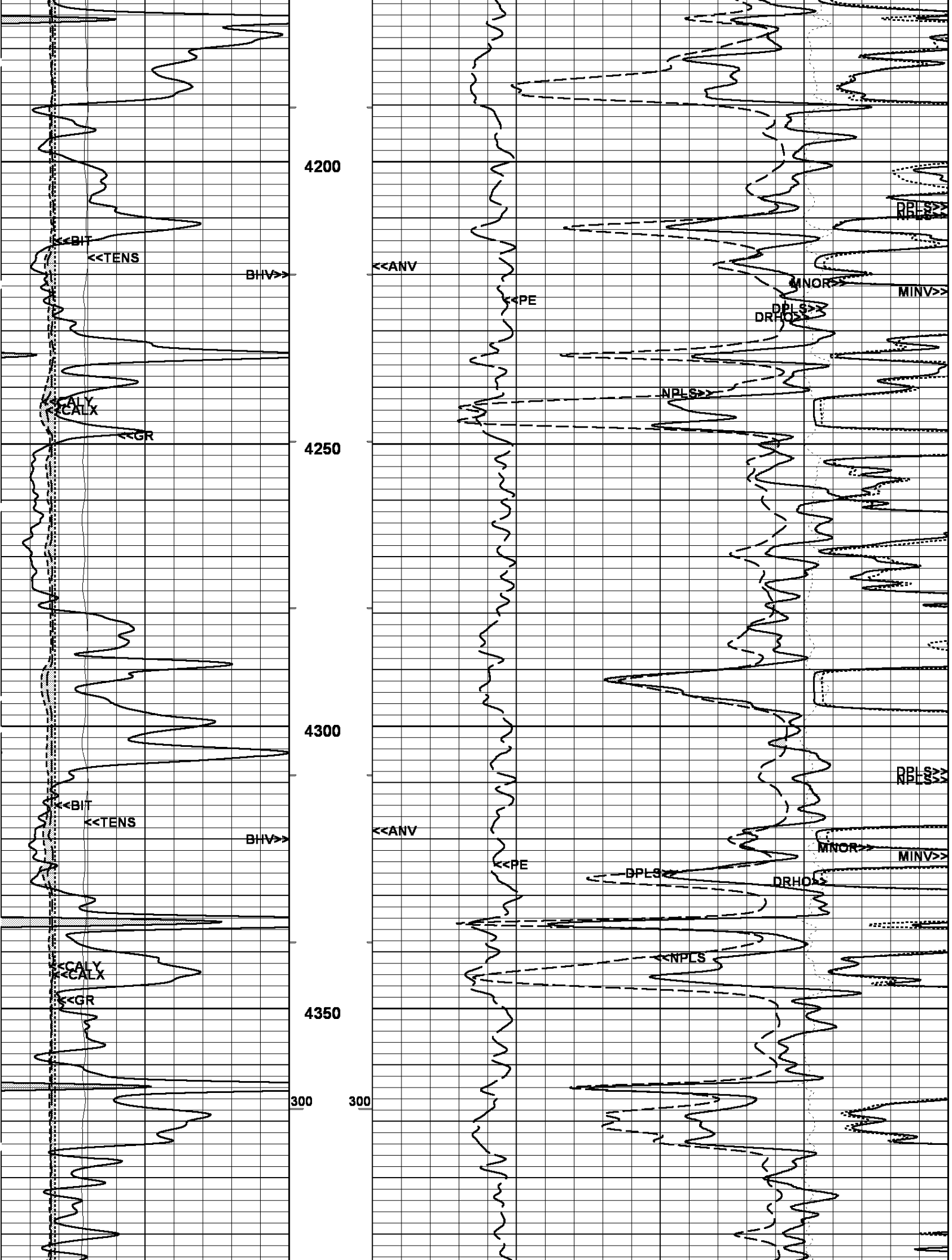
22:42:19 => End Time

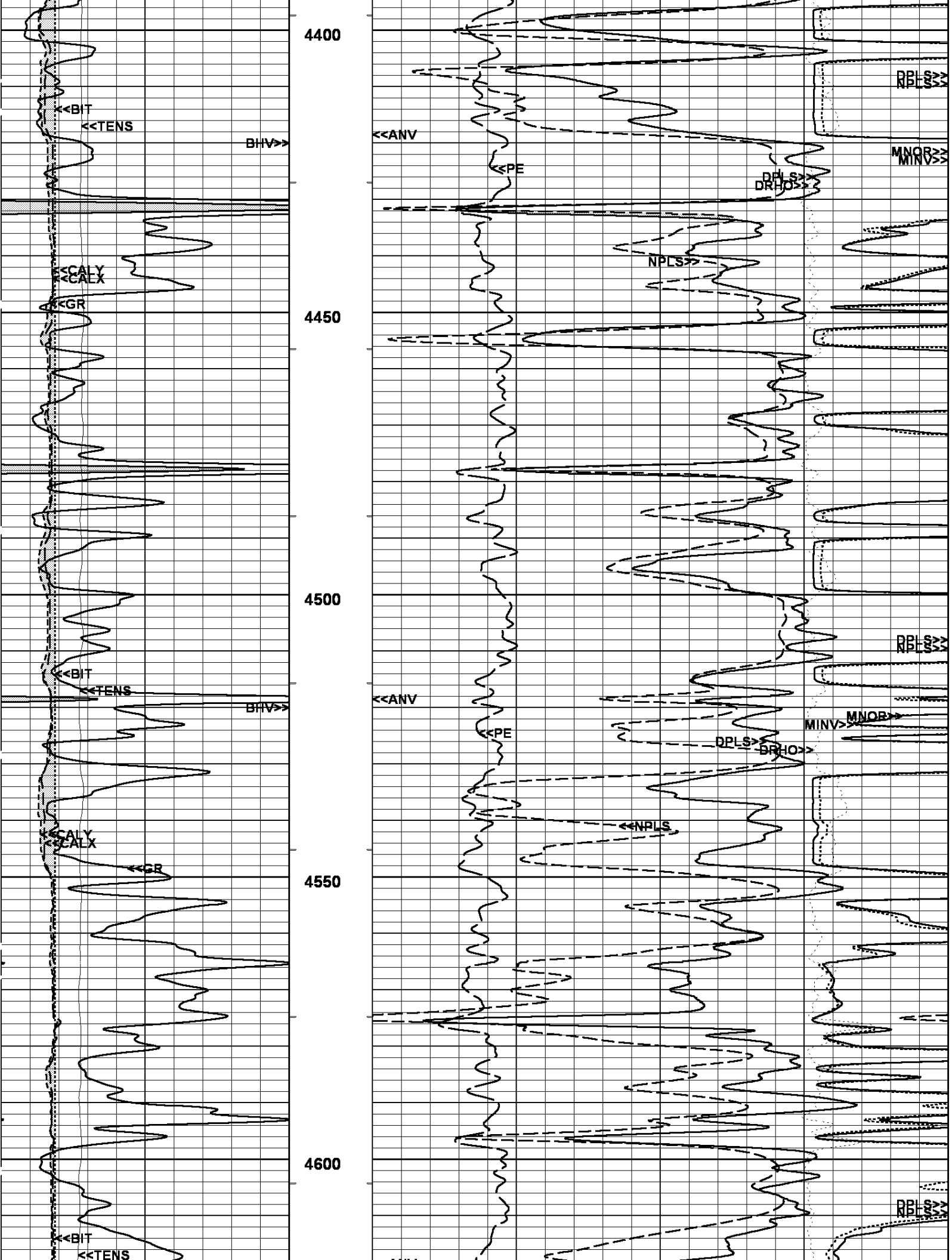
End Depth=> 3799.90 Feet

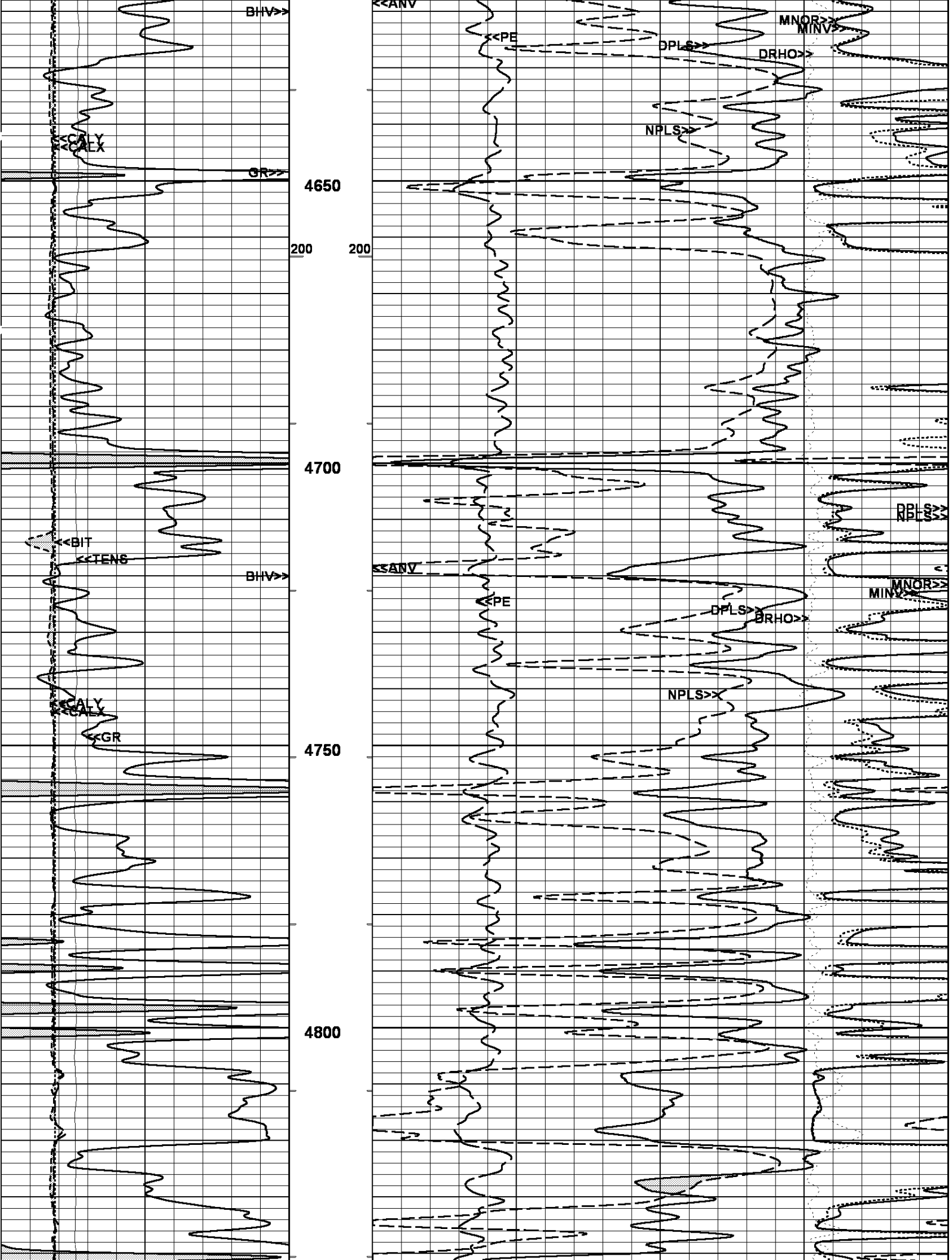
|                                                                                            |  |  |                                                                                                                       |  |  |
|--------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------------|--|--|
| <div> <div>Bit Size (BIT)</div> <div>-----</div> <div>Ref in</div> <div>6.16.</div> </div> |  |  | <div> <div>Micro-Normal{2"} (MNOR)</div> <div>-----</div> <div>ohms</div> <div>-40.40.</div> </div>                   |  |  |
| <div> <div>Tension (TENS)</div> <div>-----</div> <div>Lbs</div> <div>5000.0.</div> </div>  |  |  | <div> <div>Micro-Inverse{1"} (MINV)</div> <div>-----</div> <div>ohms</div> <div>-40.40.</div> </div>                  |  |  |
| <div> <div>Y-Caliper (CALY)</div> <div>-----</div> <div>in</div> <div>6.16.</div> </div>   |  |  | <div> <div>Delta RHO (DRHO)</div> <div>-----</div> <div>g/cc</div> <div>-0.50.5</div> </div>                          |  |  |
| <div> <div>X-Caliper (CALX)</div> <div>-----</div> <div>in</div> <div>6.16.</div> </div>   |  |  | <div> <div>Photo Electric (PE)</div> <div>-----</div> <div>Barns/Elect</div> <div>0.10.</div> </div>                  |  |  |
| <div> <div>Gamma Ray (GR)</div> <div>-----</div> <div>API</div> <div>0.150.</div> </div>   |  |  | <div> <div>Density-Porosity (DPLS)</div> <div>-----</div> <div>Limestone-Matrix (V/V)</div> <div>30.-10.</div> </div> |  |  |
|                                                                                            |  |  | <div> <div>Neutron-Porosity (NPLS)</div> <div>-----</div> <div>Limestone-Matrix (V/V)</div> <div>30.-10.</div> </div> |  |  |

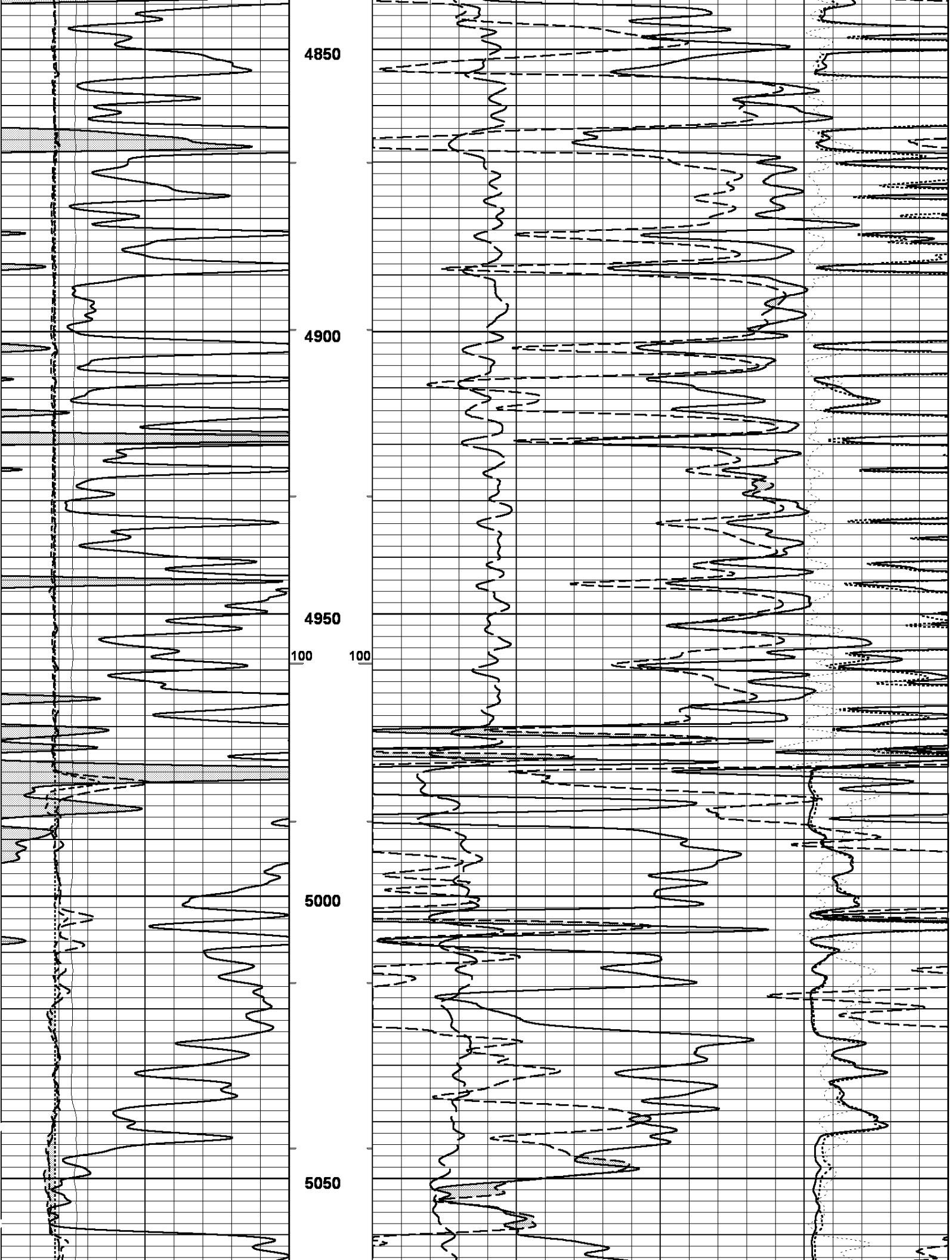


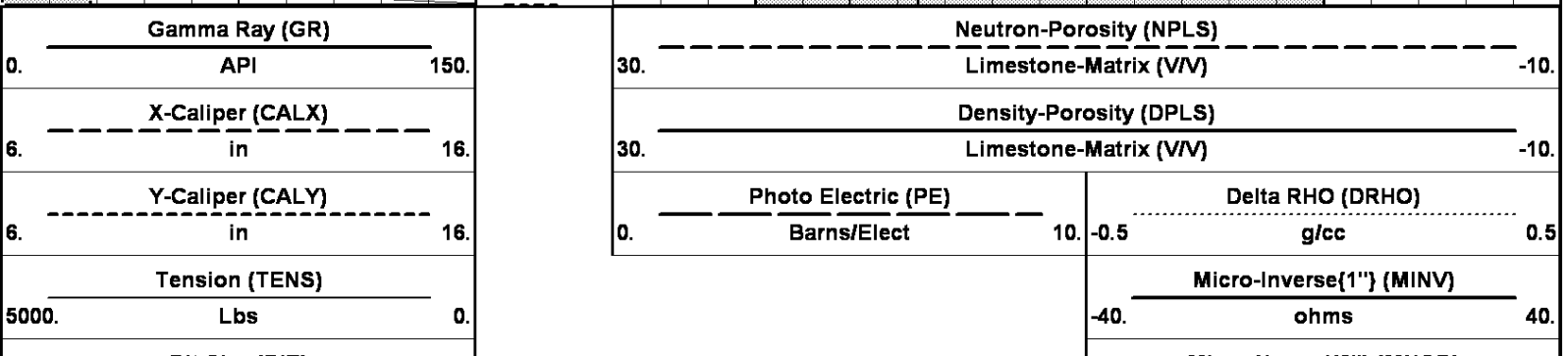
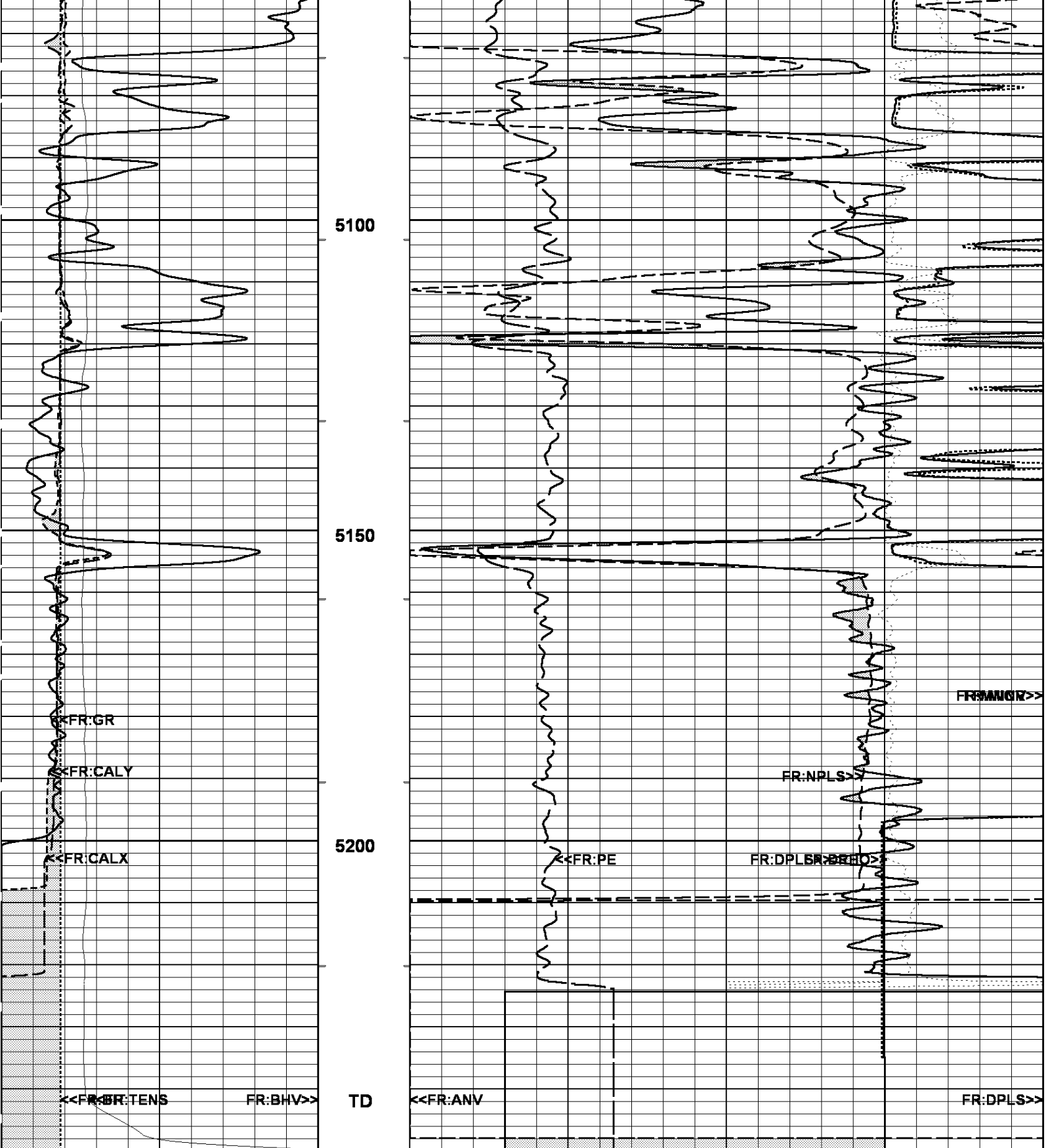




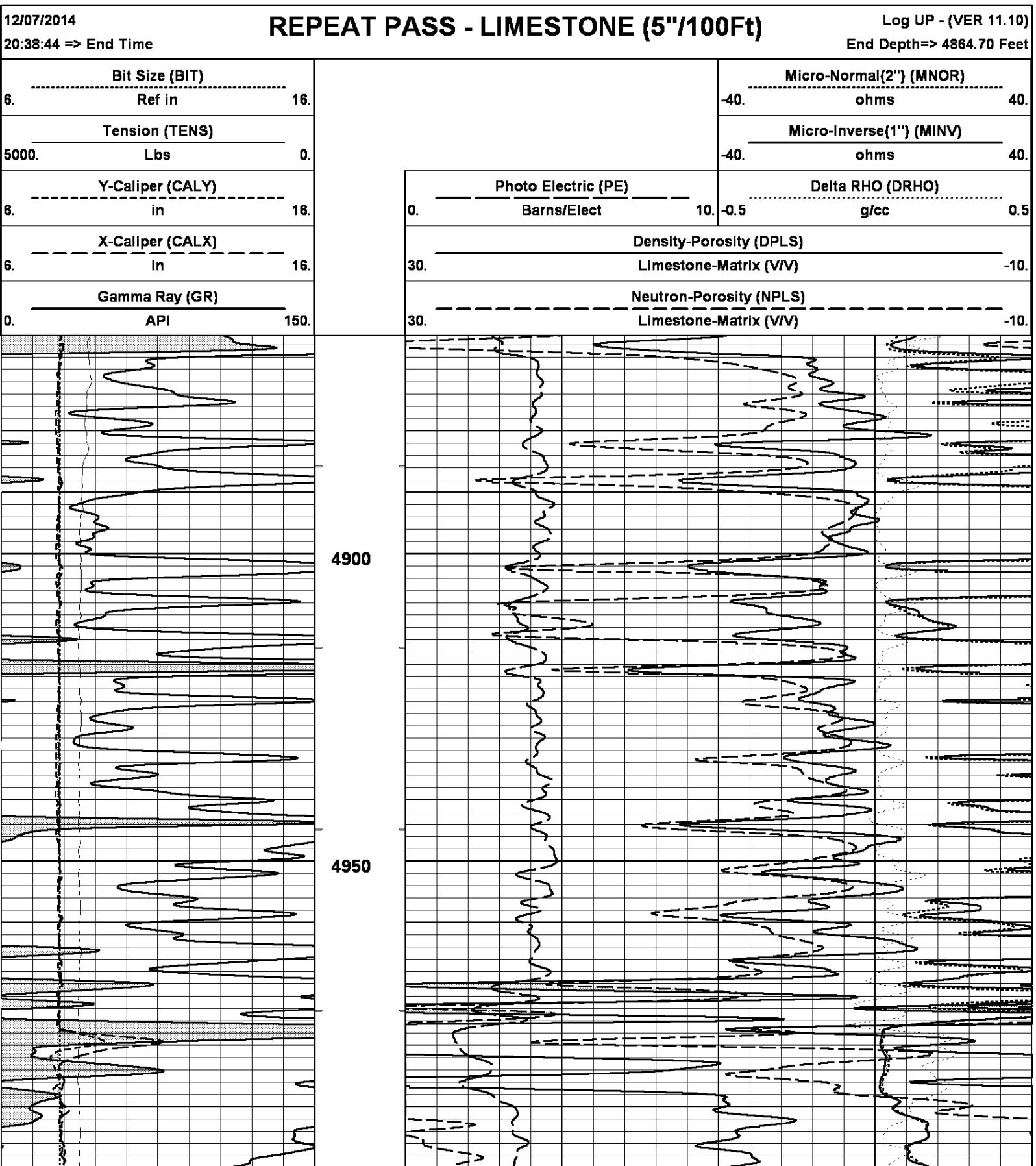


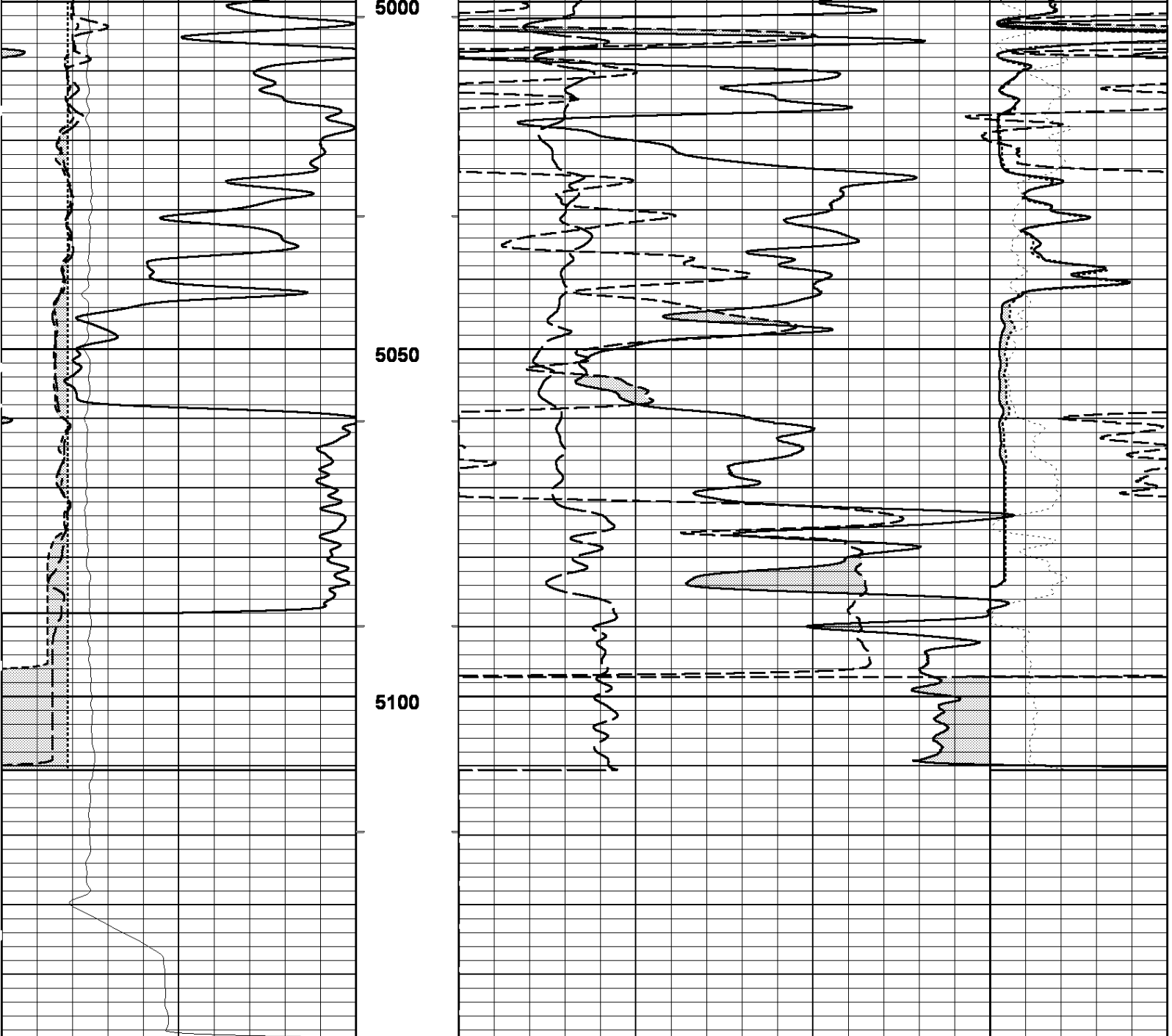






|                                                                         |  |  |                                                                                                                                   |  |  |
|-------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------------------------|--|--|
| <div> <div>Bit Size (BIT)</div> <div>6. Ref in 16.</div> </div>         |  |  | <div> <div>Micro-Normal{2"} (MNOR)</div> <div>-40. ohms 40.</div> </div>                                                          |  |  |
| <div> <div>12/07/2014</div> <div>20:50:55 =&gt; Start Time</div> </div> |  |  | <div> <div>MAIN PASS - LIMESTONE (5"/100ft)</div> <div>Log UP - (VER 11.10)</div> <div>Start Depth=&gt; 5249.90 Feet</div> </div> |  |  |





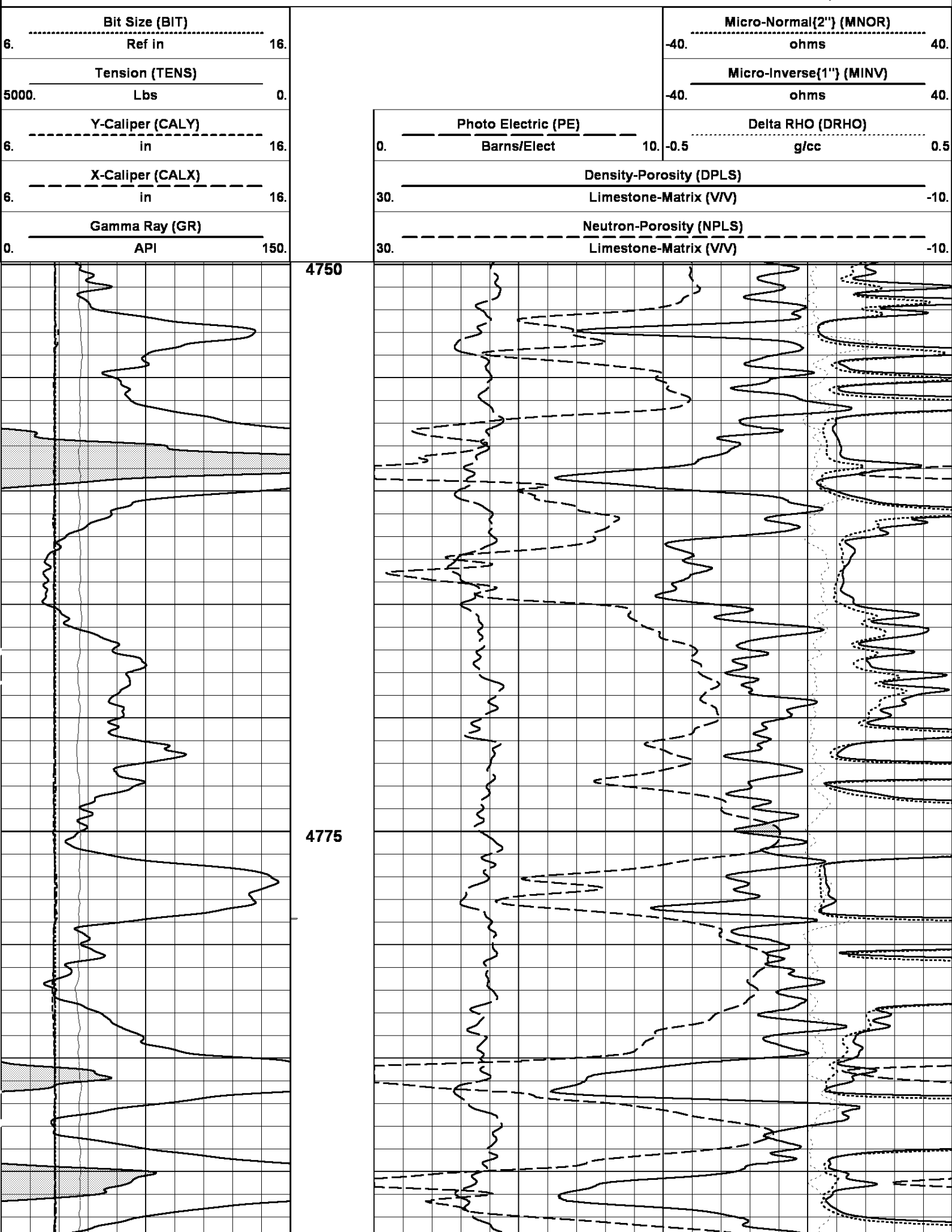
| Gamma Ray (GR)   |        |      |
|------------------|--------|------|
| 0.               | API    | 150. |
| X-Caliper (CALX) |        |      |
| 6.               | in     | 16.  |
| Y-Caliper (CALY) |        |      |
| 6.               | in     | 16.  |
| Tension (TENS)   |        |      |
| 5000.            | Lbs    | 0.   |
| Bit Size (BIT)   |        |      |
| 6.               | Ref in | 16.  |

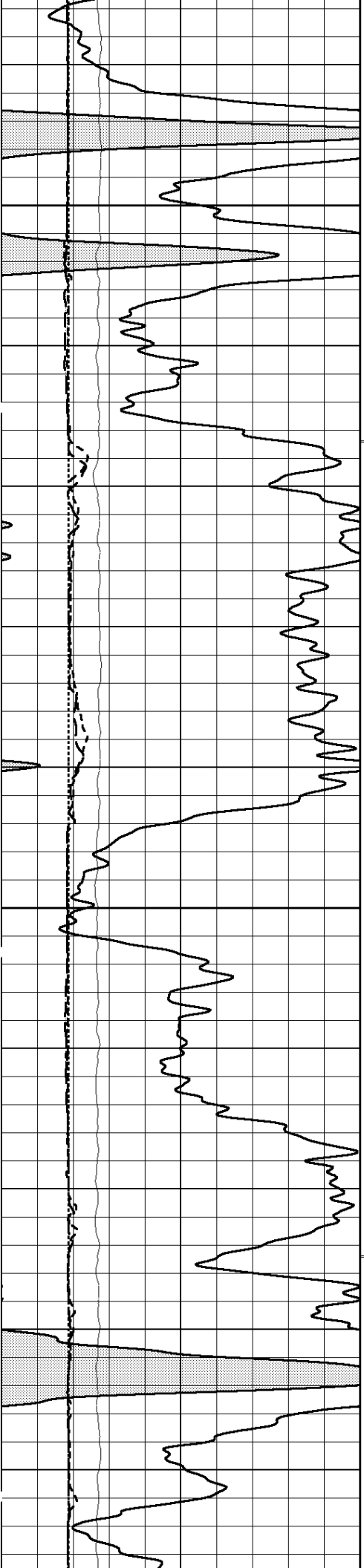
| Neutron-Porosity (NPLS)  |                             |
|--------------------------|-----------------------------|
| 30.                      | Limestone-Matrix (V/V) -10. |
| Density-Porosity (DPLS)  |                             |
| 30.                      | Limestone-Matrix (V/V) -10. |
| Photo Electric (PE)      |                             |
| 0.                       | Barns/Elect 10.             |
| Delta RHO (DRHO)         |                             |
| -0.5                     | g/cc 0.5                    |
| Micro-Inverse{1"} (MINV) |                             |
| -40.                     | ohms 40.                    |
| Micro-Normal{2"} (MNOR)  |                             |
| -40.                     | ohms 40.                    |

12/07/2014  
20:30:49 => Start Time

## REPEAT PASS - LIMESTONE (5"/100Ft)

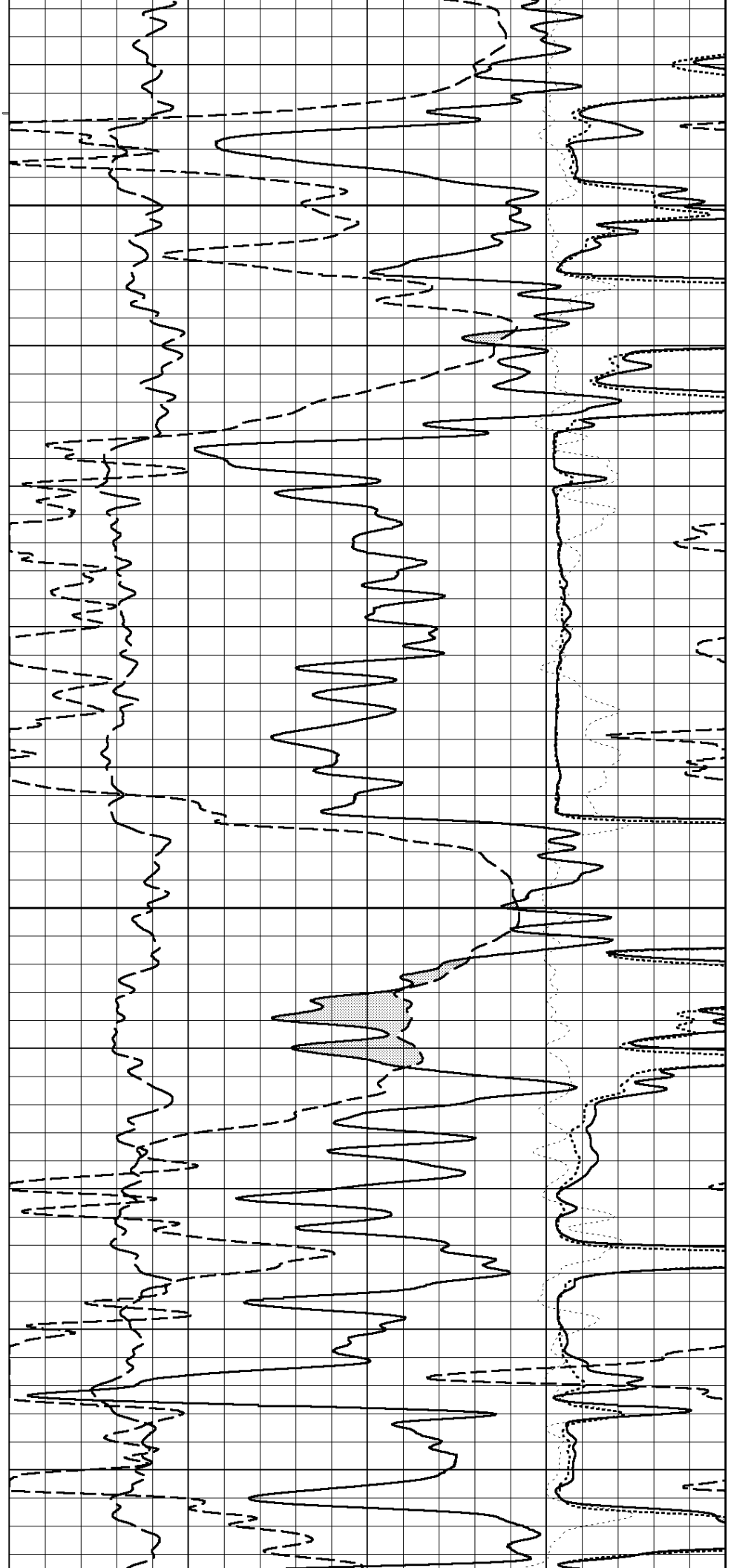
Log UP - (VER 11.10)  
Start Depth=> 5149.20 Feet

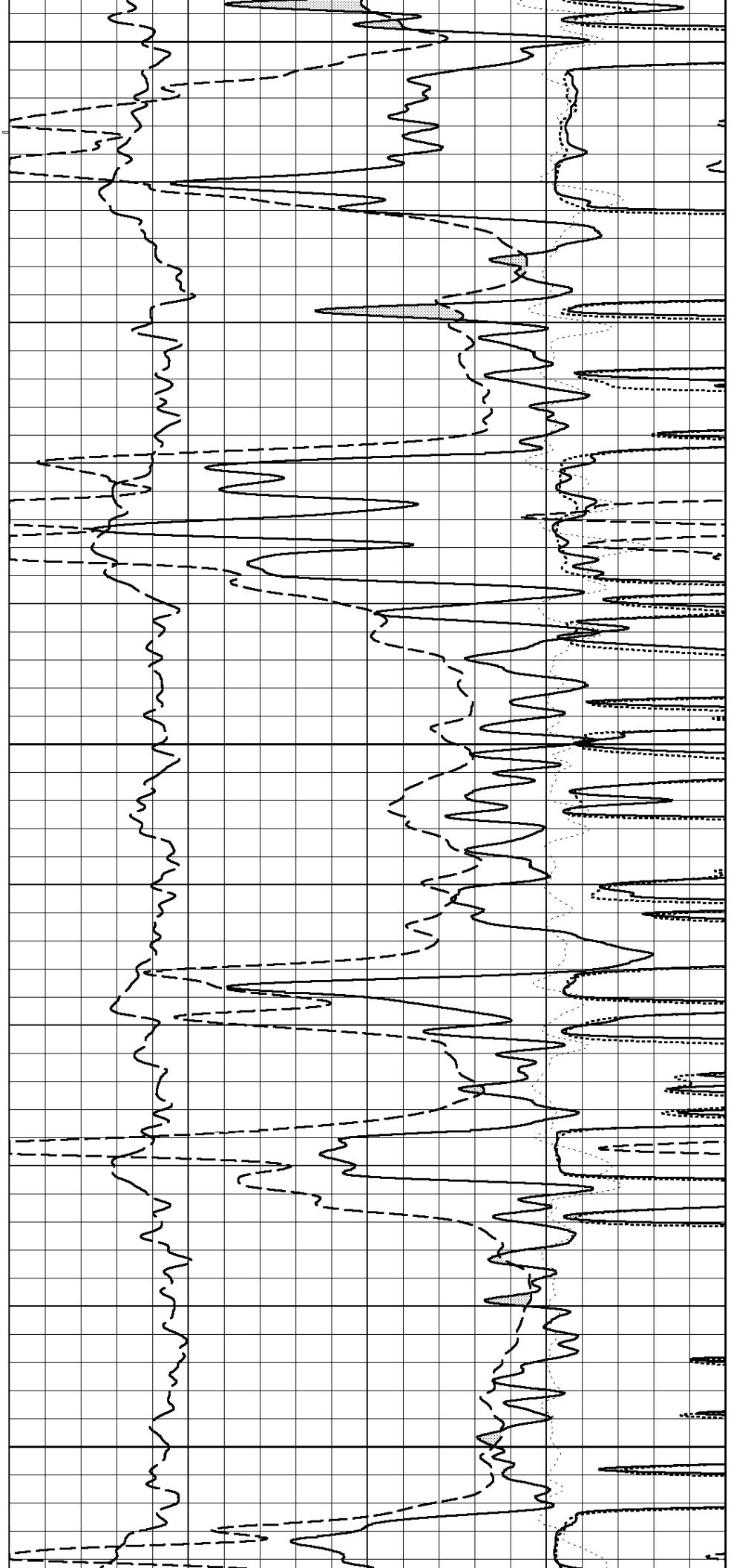
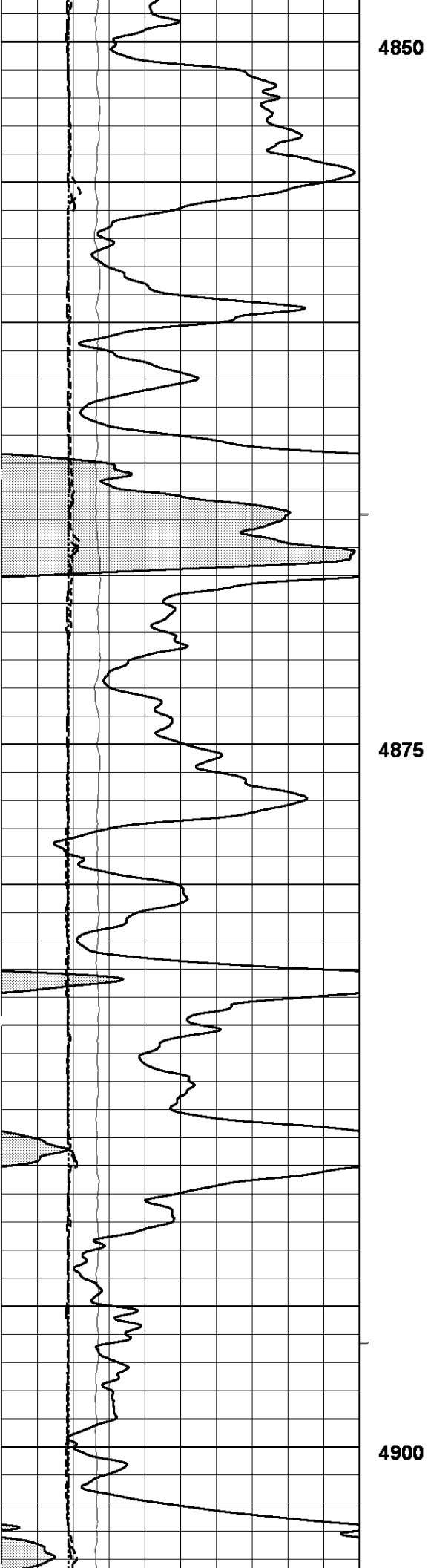


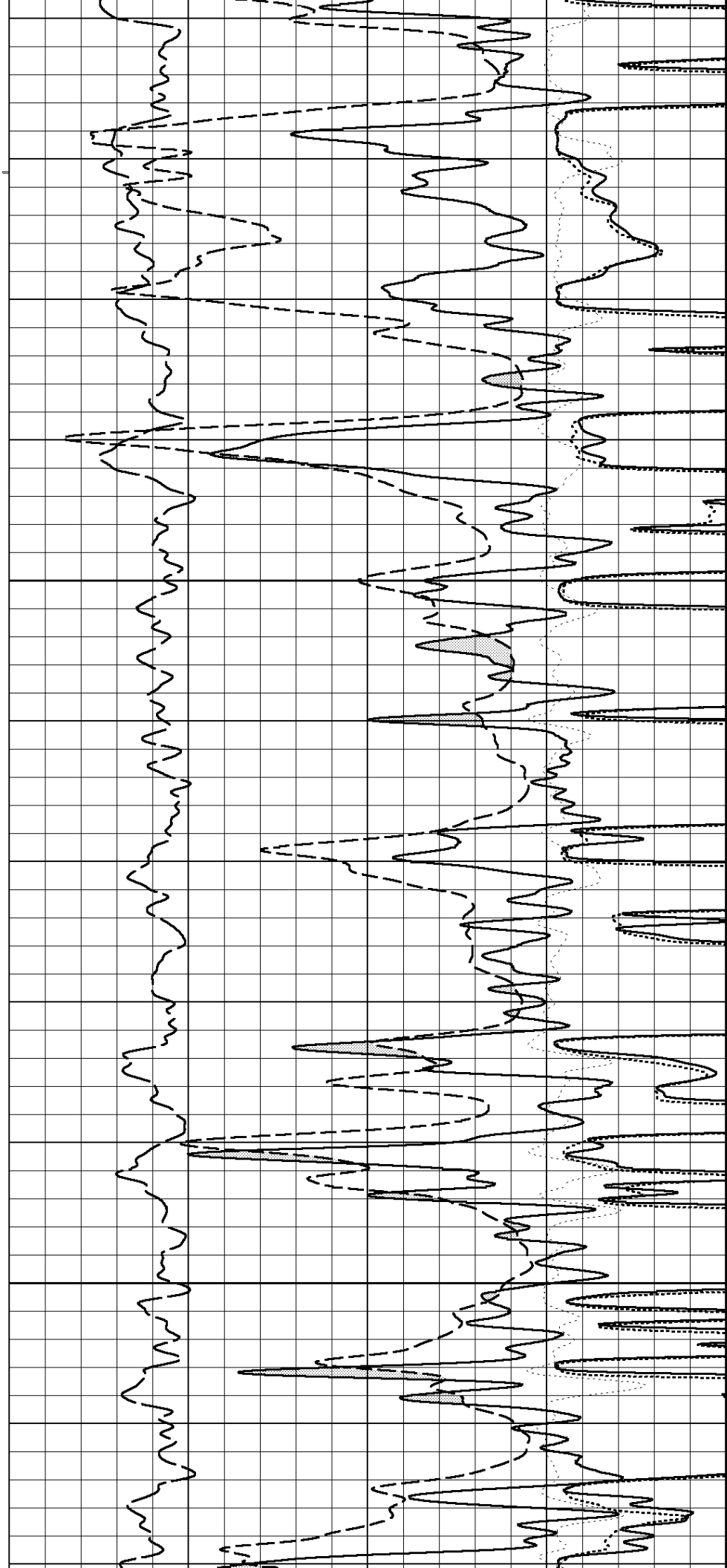
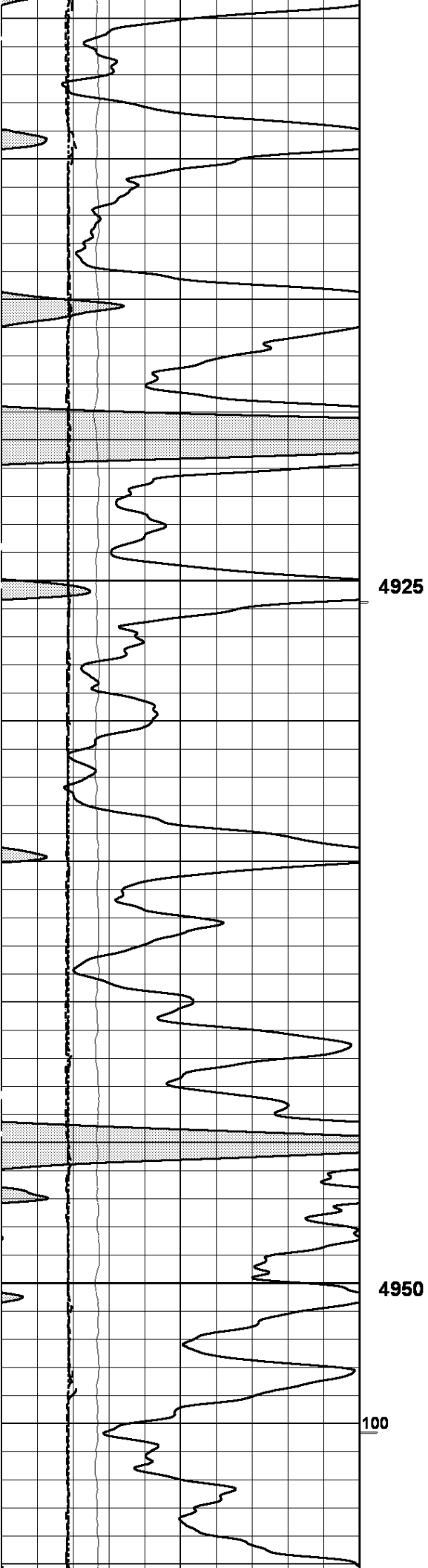


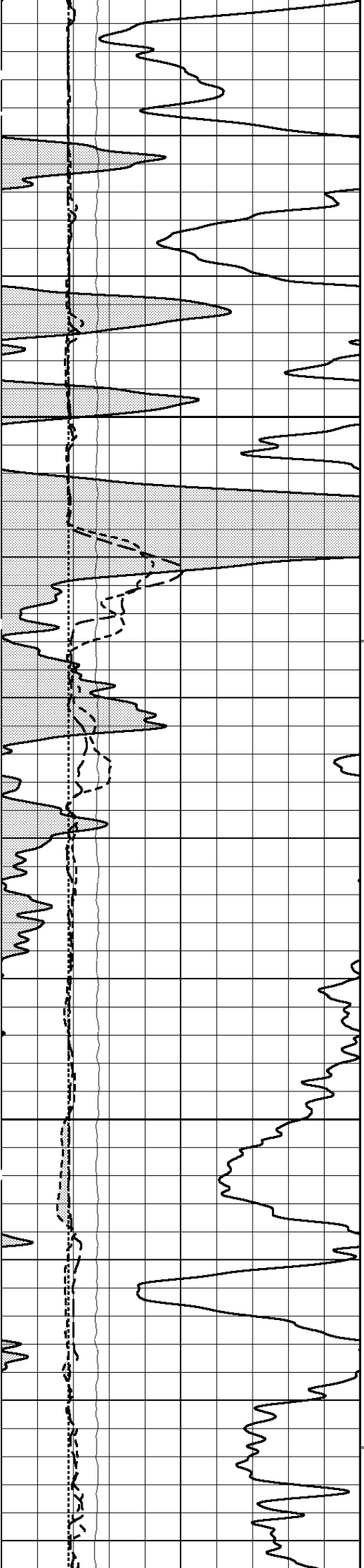
4800

4825



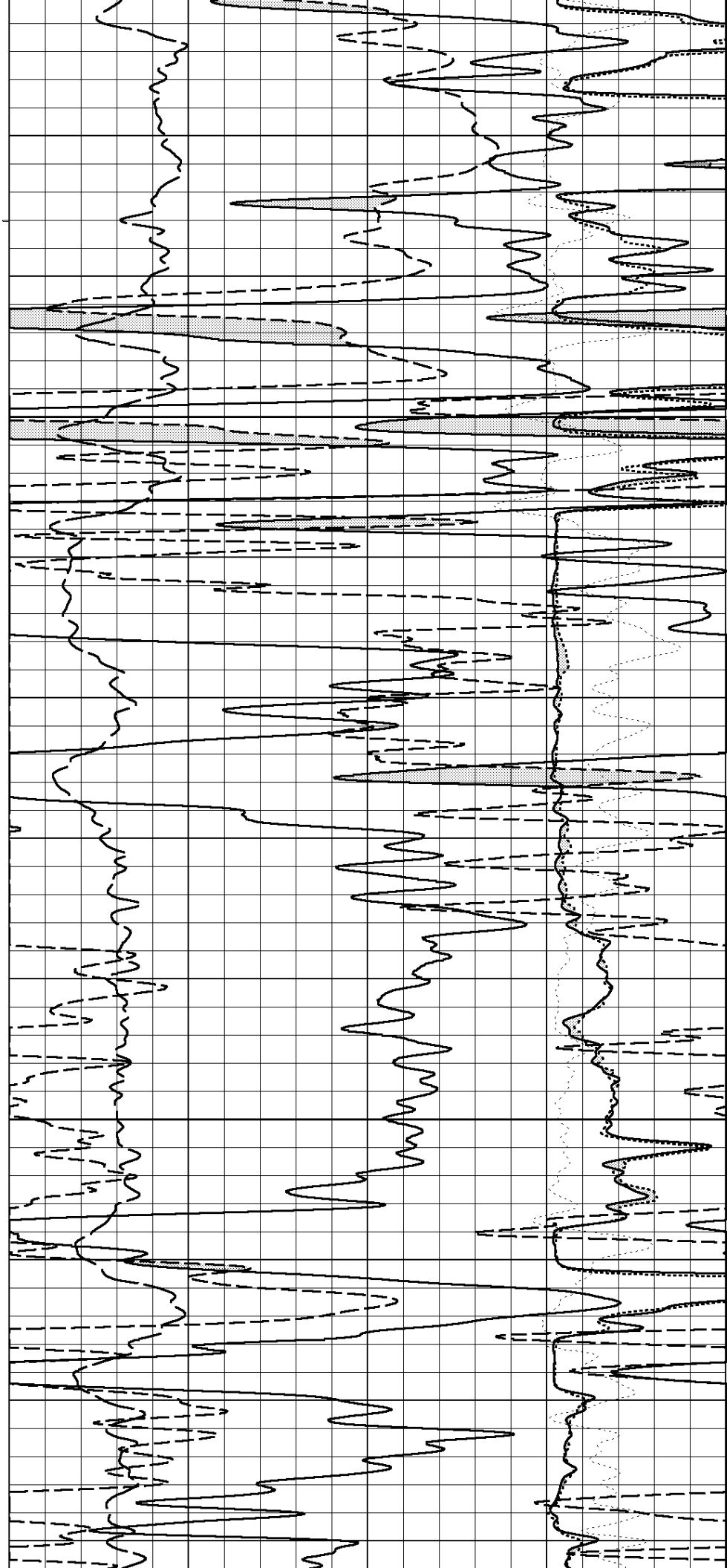


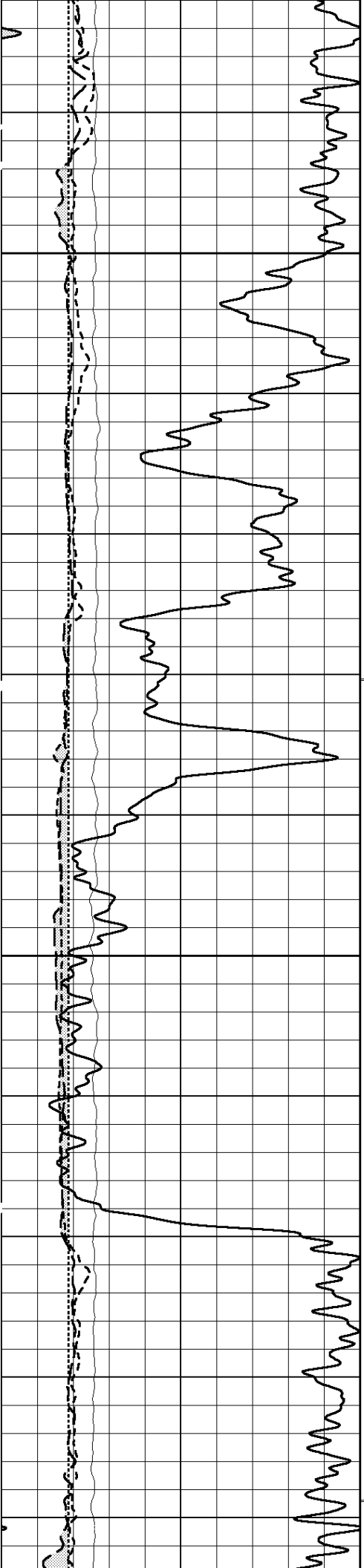




4975

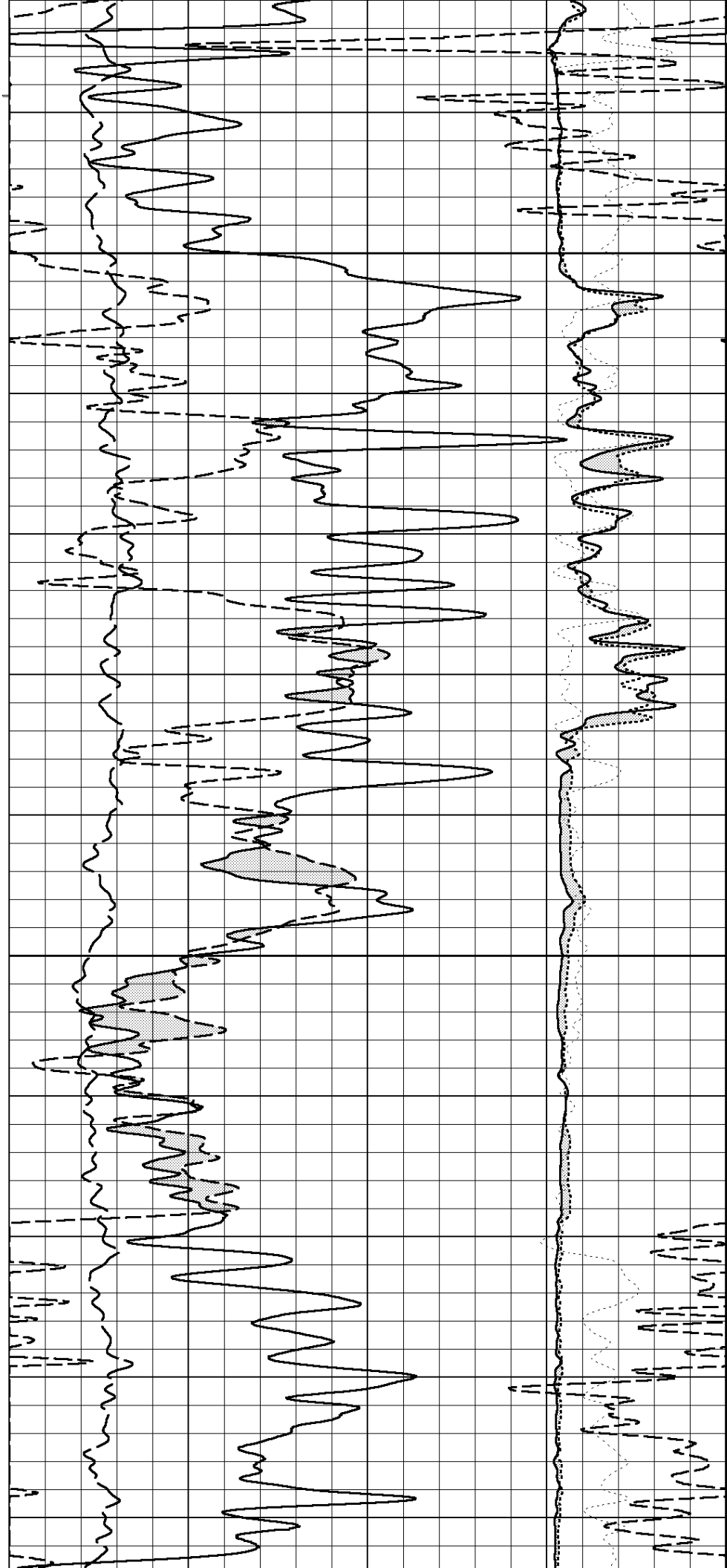
5000

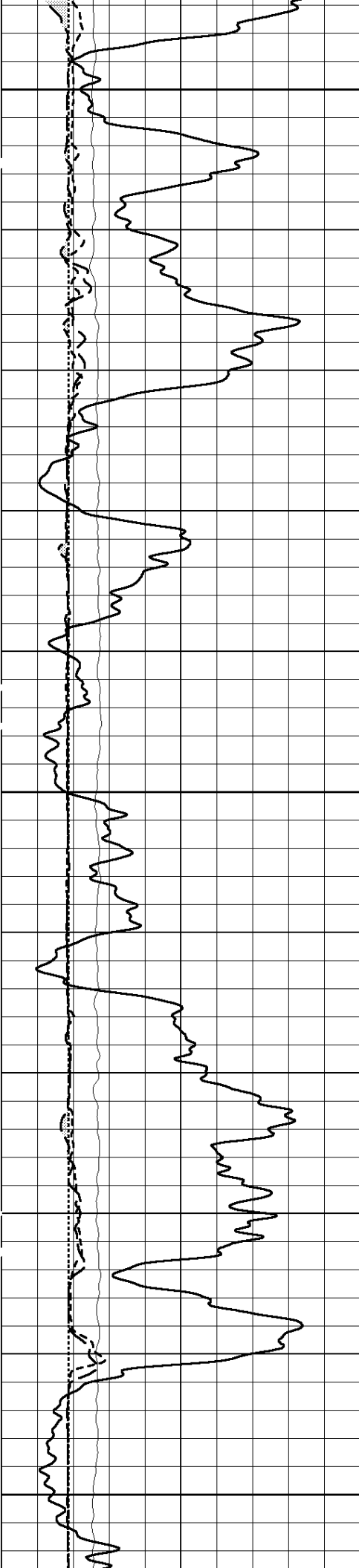




5025

5050

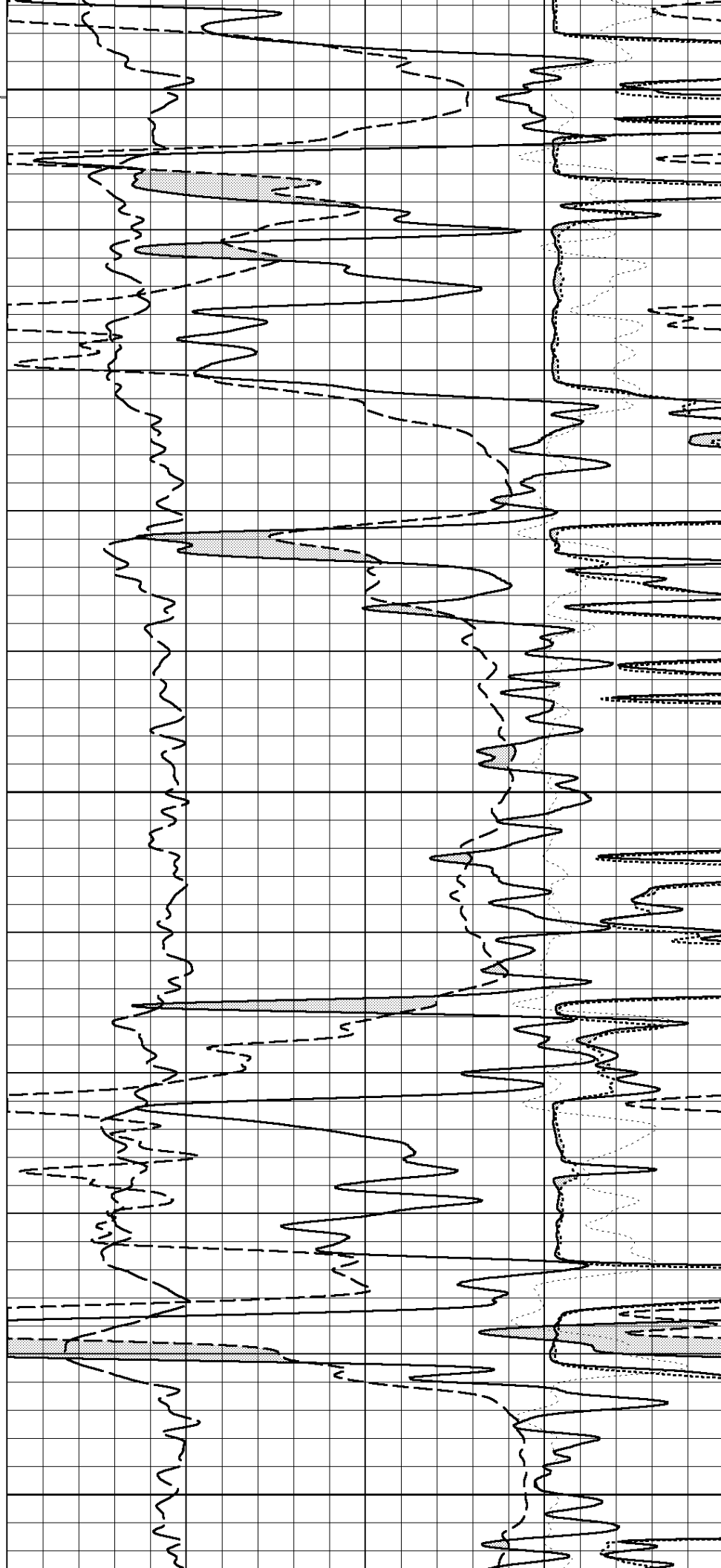


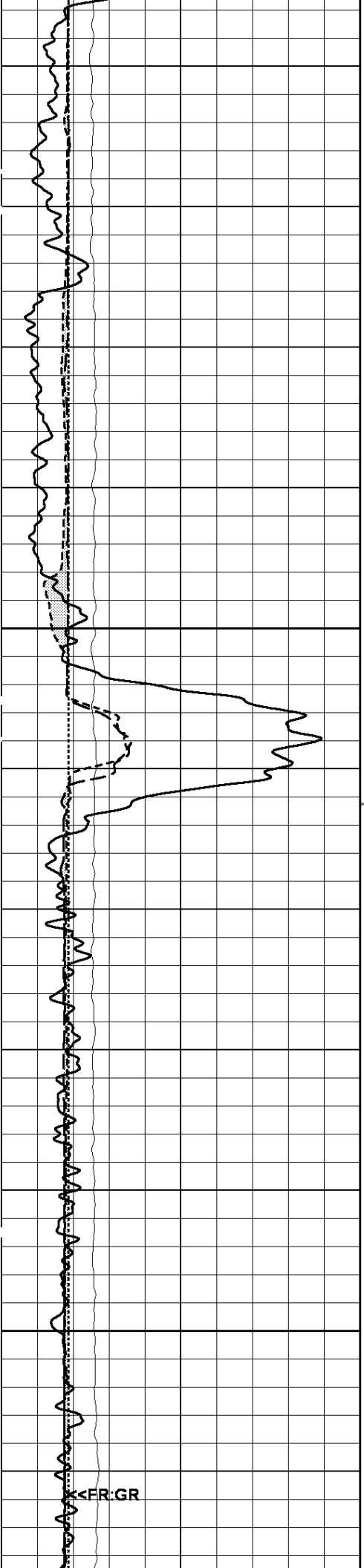


5075

5100

5125

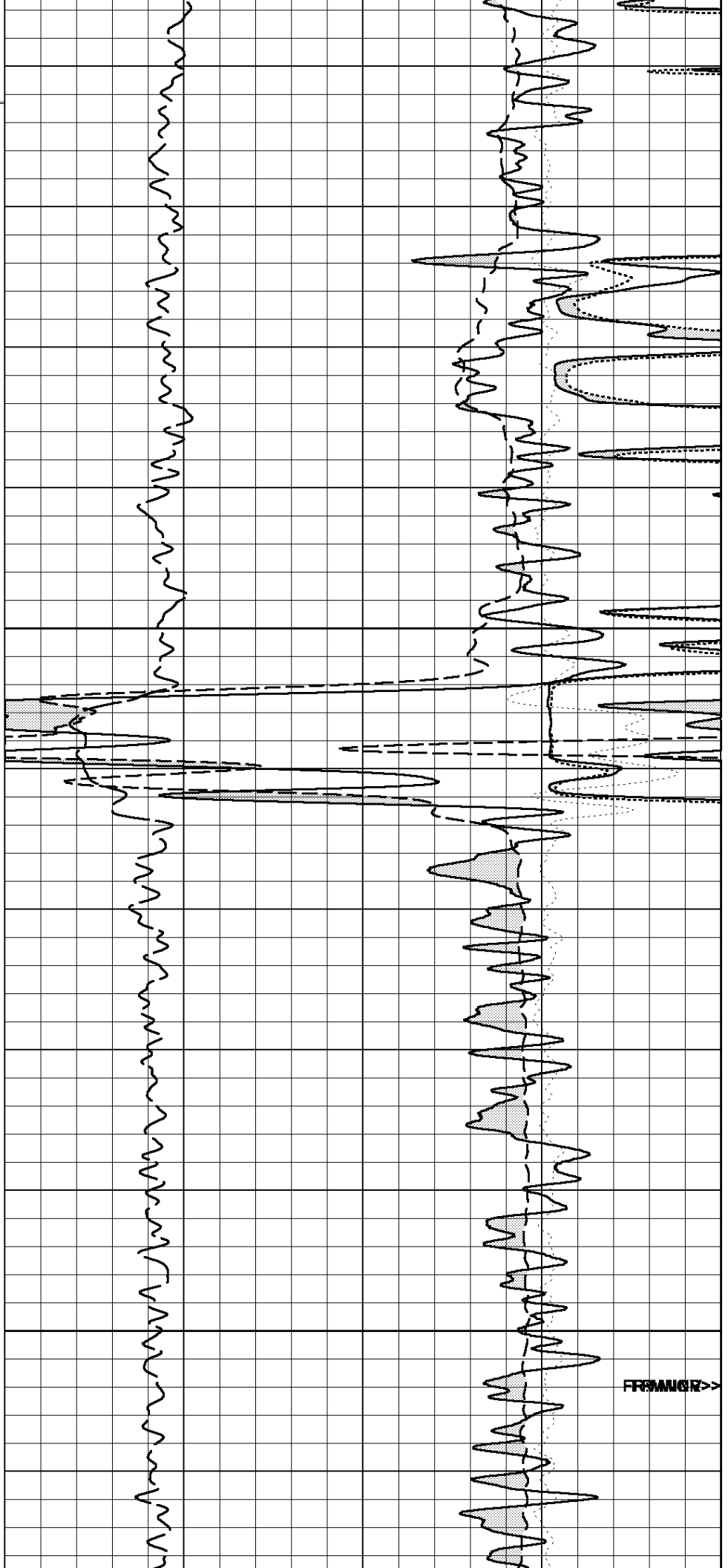




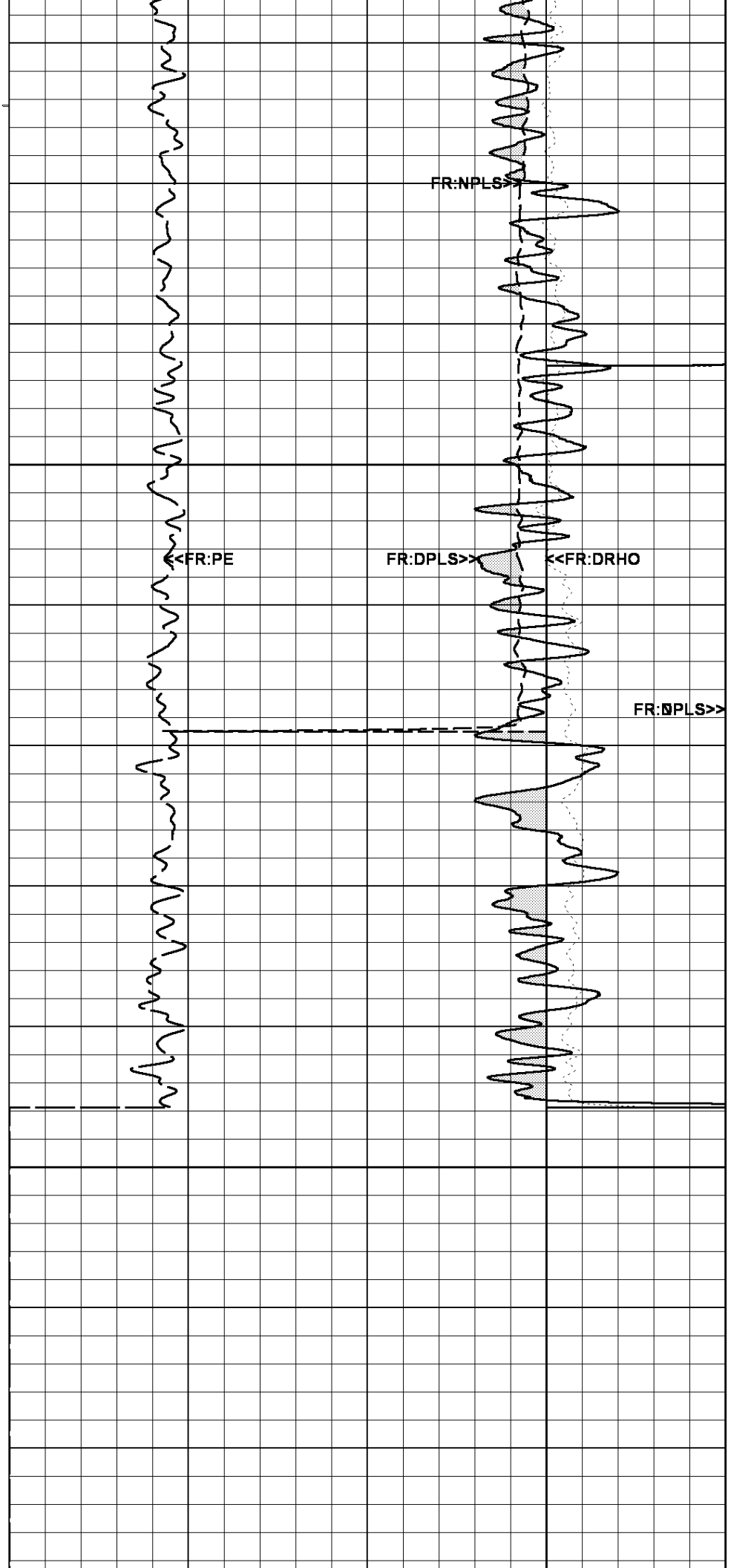
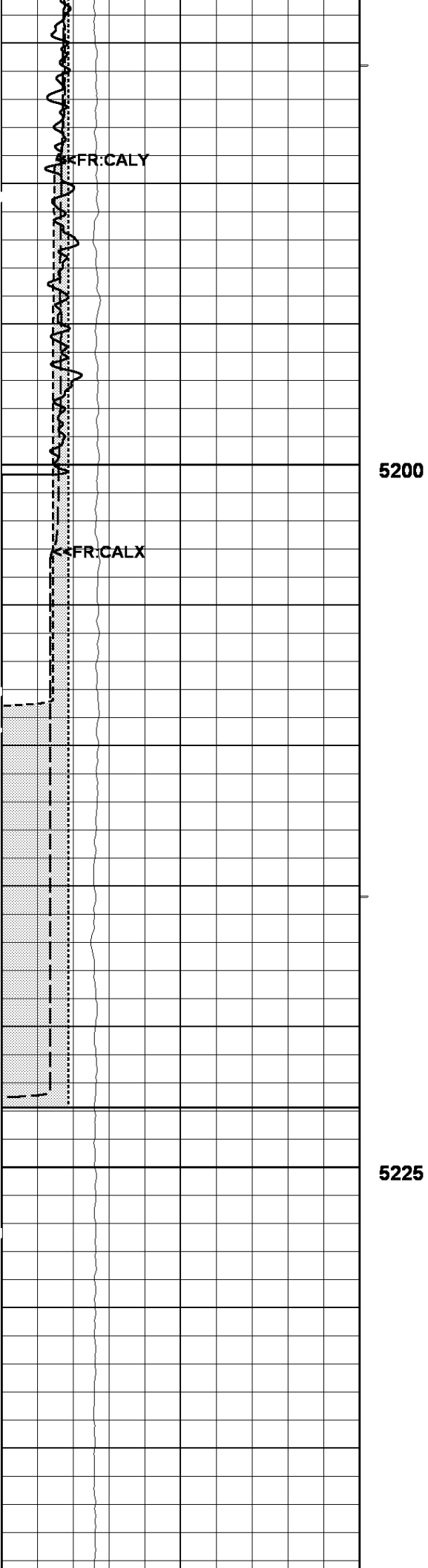
5150

5175

<FR:GR



<FR:GR



|                                                                              |  |  |  |  |                                                                    |  |                                                   |  |  |
|------------------------------------------------------------------------------|--|--|--|--|--------------------------------------------------------------------|--|---------------------------------------------------|--|--|
| <<FR:BIT <<FR:TEDS FR:BHV>><<FR:ANV                                          |  |  |  |  |                                                                    |  |                                                   |  |  |
| 0. <div>Gamma Ray (GR)</div> API 150.                                        |  |  |  |  | 30. <div>Neutron-Porosity (NPLS)</div> Limestone-Matrix (V/V) -10. |  |                                                   |  |  |
| 6. <div>X-Caliper (CALX)</div> in 16.                                        |  |  |  |  | 30. <div>Density-Porosity (DPLS)</div> Limestone-Matrix (V/V) -10. |  |                                                   |  |  |
| 6. <div>Y-Caliper (CALY)</div> in 16.                                        |  |  |  |  | 0. <div>Photo Electric (PE)</div> Barns/Elect 10.                  |  | -0.5 <div>Delta RHO (DRHO)</div> g/cc 0.5         |  |  |
| 5000. <div>Tension (TENS)</div> Lbs 0.                                       |  |  |  |  |                                                                    |  | -40. <div>Micro-Inverse{1"} (MINV)</div> ohms 40. |  |  |
| 6. <div>Bit Size (BIT)</div> Ref in 16.                                      |  |  |  |  |                                                                    |  | -40. <div>Micro-Normal{2"} (MNOR)</div> ohms 40.  |  |  |
| 12/08/2014 HIGH DEFINITION PASS - LIMESTONE (20"/100ft) Log UP - (VER 11.10) |  |  |  |  |                                                                    |  |                                                   |  |  |
| 11:29:15 => Start Time Start Depth=> 5244.98 Feet                            |  |  |  |  |                                                                    |  |                                                   |  |  |

## Litho-Density/PE Calibrations

TOOL TYPE  
SERIAL NUM

LFDC/Pe  
RL4101

SOURCE TYPE  
SOURCE NUM

CESIUM 137

SOURCE STRGTH 2 CURIE

### MASTER BLOCK CALIBRATIONS

|                     | W1(cps)   | W2(cps)   | W3(cps)  | W4(cps) | SS        | UNITS       | CALIBRATION DATE  | CALIBRATION TIME |
|---------------------|-----------|-----------|----------|---------|-----------|-------------|-------------------|------------------|
| ALUMINUM            | 4317.286  | 3710.898  | 1885.864 | 3.797   | 3267.8163 | 2.523(g/cc) | M/D/Y> 11/26/2014 | H:M:S> 14:50:6   |
| MAGNESIUM           | 12763.002 | 10776.194 | 4812.100 | 4.073   | 4768.4270 | 1.679(g/cc) |                   |                  |
| BACKGROUND          | 1415.856  | 1247.706  | 862.889  | 3.778   | 4.4187    |             |                   |                  |
| SAND                | 12760.257 | 10774.361 | 4804.490 | 4.154   |           | 1.739(PE)   |                   |                  |
| IRON                | 3880.271  | 3377.034  | 1773.915 | 3.790   |           | 4.530(PE)   |                   |                  |
| FIELD VERIFIER(cps) |           |           |          |         |           |             |                   |                  |
| VER NUM LDP-4102    | 1614.960  | 1433.200  | 973.680  | 4.560   | 5.1200    |             |                   |                  |
|                     |           |           |          |         |           |             |                   |                  |

### WELL SITE CALIBRATIONS

| VER NUM | LDP-4102 | W1(cps) | W2(cps) | W3(cps) | W4(cps) | SS |  | CALIBRATION DATE | CALIBRATION TIME |
|---------|----------|---------|---------|---------|---------|----|--|------------------|------------------|
|         |          |         |         |         |         |    |  |                  |                  |

## Compensated Neutron Calibrations

TOOL TYPE  
SERIAL NUM

CNT-B  
RN2007

SOURCE TYPE  
SOURCE NUM

AM241BE

SOURCE STRGTH 20 CURIE

### MASTER TANK CALIBRATIONS

|         |       | NEAR(cps) | FAR(cps) | RATIO  | K VALUE | CALIBRATION DATE  | CALIBRATION TIME |
|---------|-------|-----------|----------|--------|---------|-------------------|------------------|
| L-2W-BW | 0.001 |           |          | 0.0510 | 1.0000  | M/D/Y> 12/08/2014 | H:M:S> 15:42:10  |

|                               |        |           |          |        |                  |                  |                 |
|-------------------------------|--------|-----------|----------|--------|------------------|------------------|-----------------|
| LOW PHI                       | 3.031  |           |          | 0.6510 | 1.0000           | M/D/Y> 12/3/2014 | H:M:S> 15:42:19 |
| MED PHI                       | 16.430 |           |          | 1.0671 | 1.0000           |                  |                 |
| HIGH PHI                      | 26.740 |           |          | 1.2716 | 1.0003           |                  |                 |
| FIELD VERIFIER(cps)           |        |           |          |        |                  |                  |                 |
| VER NUM                       | 7430   | 0.100     | 0.100    | 1.0000 |                  |                  |                 |
| <b>WELL SITE CALIBRATIONS</b> |        |           |          |        |                  |                  |                 |
| VER NUM                       | 7430   | NEAR(cps) | FAR(cps) | RATIO  | CALIBRATION DATE | CALIBRATION TIME |                 |
|                               |        |           |          |        |                  |                  |                 |

| GAMMA RAY CALIBRATION  |               |                      |                             |                   |                  |
|------------------------|---------------|----------------------|-----------------------------|-------------------|------------------|
| SERIAL NUM             | RG3006        |                      |                             |                   |                  |
| BLANKET NUM            | 1A            |                      |                             |                   |                  |
| MASTER CALIBRATIONS    |               |                      |                             |                   |                  |
|                        | BackGrnd      | CalVal: 159.000 API  | Gain/Offset                 | CALIBRATION DATE  | CALIBRATION TIME |
| BASE CALS              | 118.034 - raw | 636.485 - raw        | 0.307 - gain<br>0.000 - off | M/D/Y> 12/4/2014  | H:M:S> 12:34:14  |
| WELL SITE CALIBRATIONS |               |                      |                             |                   |                  |
|                        | BackGrnd      | CalVal: 100.000 Mknu | Gain/Offset                 | CALIBRATION DATE  | CALIBRATION TIME |
| PRE CAL                | -0.059 - raw  | 26.967 - raw         | 3.700 - gain                | M/D/Y> 11/12/2004 | H:M:S> 12:40:27  |

|                     |                   |                   |                             |                   |                  |
|---------------------|-------------------|-------------------|-----------------------------|-------------------|------------------|
| X CALIPER           |                   |                   |                             |                   |                  |
| SERIAL NUM          | <div>RL4101</div> |                   |                             |                   |                  |
| MASTER CALIBRATIONS |                   |                   |                             |                   |                  |
|                     | ZeroVal: 6.000 In | CalVal: 10.000 In | Gain/Offset                 | CALIBRATION DATE  | CALIBRATION TIME |
| BASE CALS           | 2759.988 - raw    | 4867.911 - raw    | 0.002 - gain<br>0.763 - off | M/D/Y> 11/26/2014 | H:M:S> 13:32:35  |

| Y CALIPER CALIBRATIONS |                   |                   |                             |                  |                  |
|------------------------|-------------------|-------------------|-----------------------------|------------------|------------------|
| SERIAL NUM             | RN2007            |                   |                             |                  |                  |
|                        |                   |                   |                             |                  |                  |
| MASTER CALIBRATIONS    |                   |                   |                             |                  |                  |
|                        | ZeroVal: 6.000 in | CalVal: 10.000 in | Gain/Offset                 | CALIBRATION DATE | CALIBRATION TIME |
| BASE CALS              | 772.211 - raw     | 1474.102 - raw    | 0.006 - gain<br>1.599 - off | M/D/Y> 12/3/2014 | H:M:S> 15:58:17  |

|         |                   |
|---------|-------------------|
| Company | BANKS RESOURCES   |
| Well    | SUNRAY FARMS #1-9 |
| Field   | WILDCAT           |
| County  | GREELEY           |
| State   | KANSAS            |

***RECON***

COMPENSATED NEUTRON  
LITHOLOGY DENSITY  
GAMMA RAY X-Y CALIPER  
MICROLOG

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