

**Tucker**  
ENERGY SERVICES

# MICRO LOG

Company DAYSTAR PETROLEUM LLC.  
Well MCGINNIS-FEE #20  
Field FANCY  
County GREENWOOD  
State KANSAS  
Country USA  
API No. 15-073-24185

File No : TUL-58207  
Company : DAYSTAR PETROLEUM LLC.  
Well : MCGINNIS-FEE #20  
Field : FANCY  
County : GREENWOOD  
State : KANSAS  
Country : USA  
API No : 15-073-24185

Location :  
1980' FSL & 4290' FEL  
E2 NW SW

LSD :      Sect : 25      Twp : 26S      Rge : 12E

Permanent Datum: GL  
Drilling Measured From: GL  
Log Measured From: GL  
Above Permanent Datum: 0.00 Ft  
Date: 2013-03-30  
Run Number: 1  
Depth--Driller: 2196.0 Ft  
Depth--Logger: 2194.0 Ft  
First Reading: 2171.0 Ft  
Last Reading: 233.0 Ft  
Casing--Driller: 225.0 Ft  
Casing--Logger: 233.0 Ft  
Bit Size: 9.500 In  
Casing Size: 10.750 In  
Hole Fluid Type: WBM  
Density: 9.1 LBS/GAL  
Fluid Loss: 8.2 CC  
PH/Viscosity: 9.0 37.0 SEC  
Sample Source: MEASURED  
RMF@Measured Temp.: 3.500 @ 70 F  
RMF@Measured Temp.: 2.980 @ 70 F  
RMC@Measured Temp.: 4.030 @ 70 F  
Source RMF/RMC: CALCULATED/CALCULATED  
RM@BHT: 2.720 @ 91 F  
Time Circulation Stopped: 91 F  
Max Recorded Temp.: TRK 123 TULSA  
Equipment/Base: S. DAVIS  
Recorded By: S. EVENSON  
Witnessed By:

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. E. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. E. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

| Bitsize Intervals |             | Casing Strings |              |             |
|-------------------|-------------|----------------|--------------|-------------|
| Size (In)         | Bottom (Ft) | Size (In)      | Weight (Lbs) | Bottom (Ft) |
| 9.500             | 2194.00     | 10.750         | 30.00        | 233.00      |
|                   |             |                |              |             |
|                   |             |                |              |             |
|                   |             |                |              |             |
|                   |             |                |              |             |

|                     |                  |  |
|---------------------|------------------|--|
| Run Number          | 1                |  |
| Date                | 2013-03-30       |  |
| Date/Time On Bottom | 2013-03-30 15:15 |  |
| Depth to Fluid      | 0.0 Ft           |  |
| Salinity            | 0.000 PPM        |  |
| RMF@BHT             | 2.310 @ 91 F     |  |
| RMC@BHT             | 3.130 @ 91 F     |  |

Run Number 1

Comments

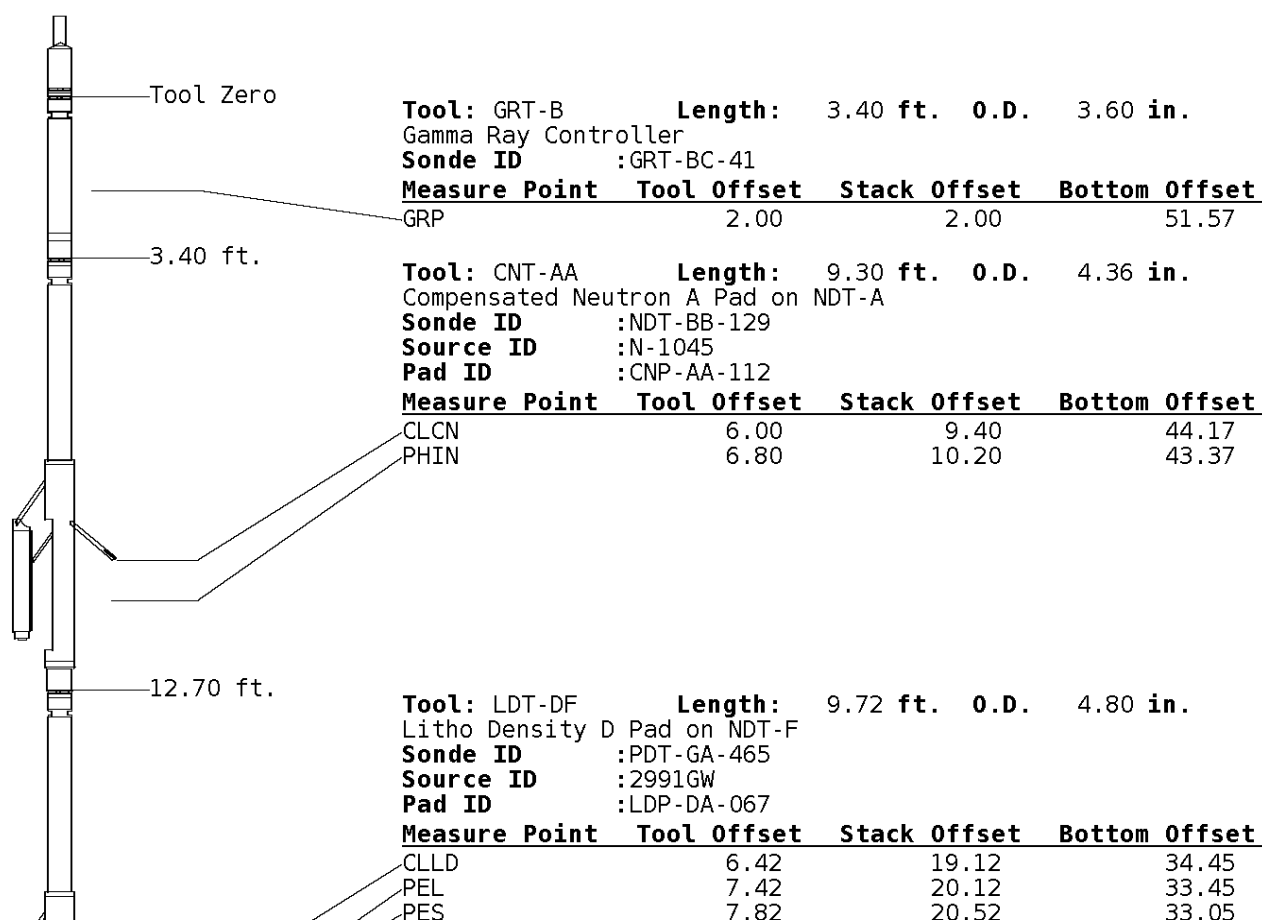
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.  
 GRT, CNT, LDT, MLT, AND PIT RUN IN COMBINATION.  
 CALIPERS ORIENTED ON X-Y AXIS.  
 2.71 G/CC USED TO CALCULATED POROSITY.  
 ANNULAR HOLE VOLUME CALCULATED USING 7.0" PRODUCTION CASING.  
 PHIN IS CALIPER CORRECTED

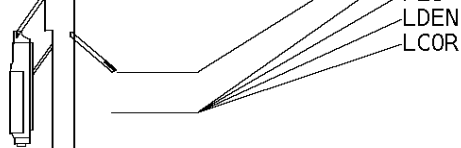
GRT: GRP.  
 CNT: PHIN, CLCNIN.  
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.  
 MLT: NOR\_RF, INV\_RF, MSCLPIN.  
 PIT: ILD, ILM, SPU, SFLAEC, CIRD.

OPERATORS:  
 B. COLWILL  
 J. THOMAS

## Tool String Schematic

**Total Tool Length** - 53.57 ft.  
**Maximum Outside diameter** - 6.00 in.  
**Net Weight in Air** - 943.00 lbs.



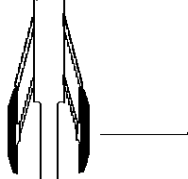


|      |      |       |       |
|------|------|-------|-------|
| LDEN | 7.62 | 20.32 | 33.25 |
| LCOR | 7.62 | 20.32 | 33.25 |

22.42 ft.

**Tool:** MST-DA      **Length:** 9.66 ft.    **O.D.** 6.00 in.  
 Micro Spherically Focused (IC)  
**Sonde ID** :MST-DA-36

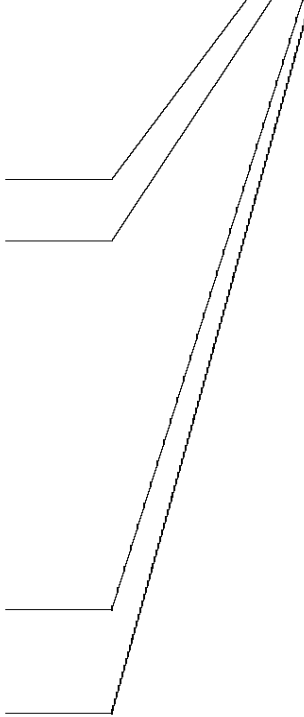
| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---------------|-------------|--------------|---------------|
| MSFL          | 7.60        | 30.02        | 23.55         |
| MSCLP         | 7.60        | 30.02        | 23.55         |
| INV           | 7.60        | 30.02        | 23.55         |
| NOR           | 7.60        | 30.02        | 23.55         |



32.08 ft.

**Tool:** PIT-CA      **Length:** 21.49 ft.    **O.D.** 3.62 in.  
 Phased Dual Induction w/ RM & D  
**Sonde ID** :PIT-AB-005

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---------------|-------------|--------------|---------------|
| ILD           | 8.92        | 41.00        | 12.56         |
| ILM           | 10.10       | 42.18        | 11.39         |
| SFLU          | 17.49       | 49.57        | 4.00          |
| SP            | 20.60       | 52.68        | 0.88          |



LWT 53.57 ft.

**Well File:** day-pet-mcg-20-mstk-mar-30

**Scale:** 1:240

**Segment:** V1.D1.S5 MN

**Acquired:** 2013-03/30 15:30 3.2.0-11401

**Reference:** 0

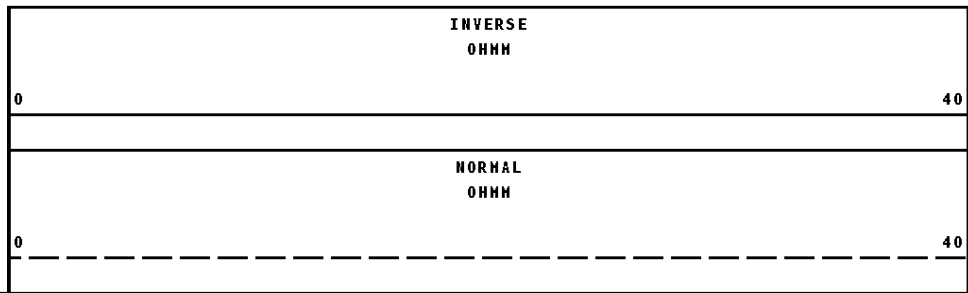
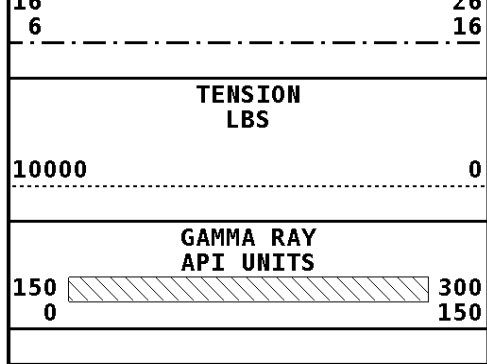
**Processed:** 2013-03/30 16:23 3.2.0-11401

**BIT SIZE  
INCHES (IN)**

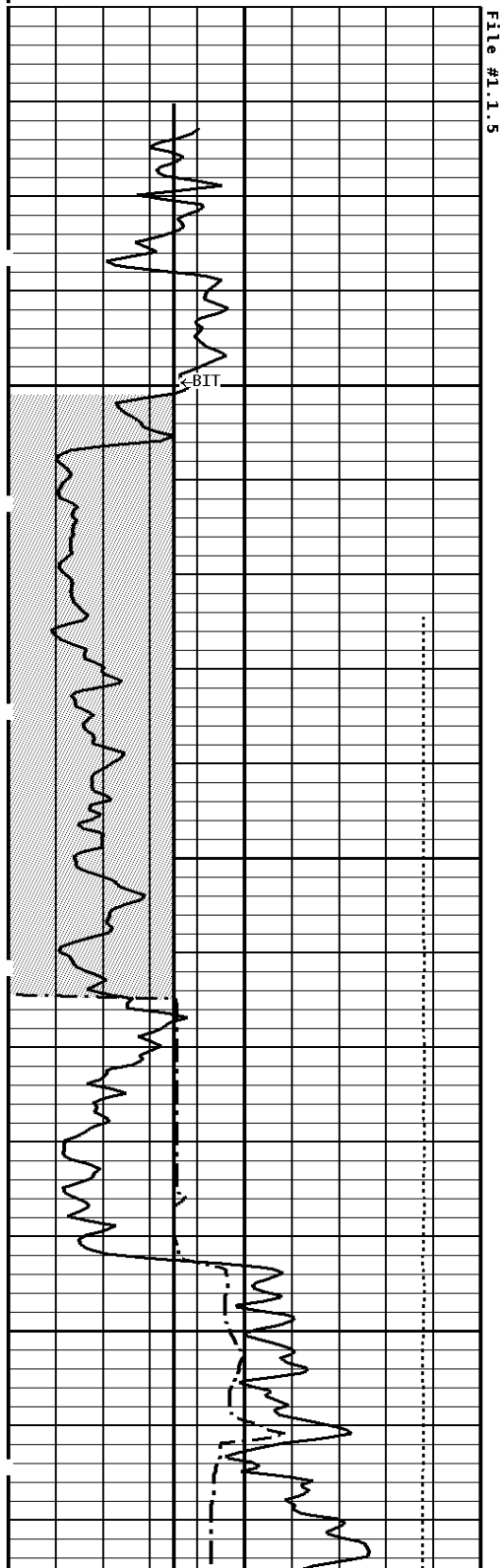
6 16

**CALIPER MICRO  
INCHES (IN)**

16 26

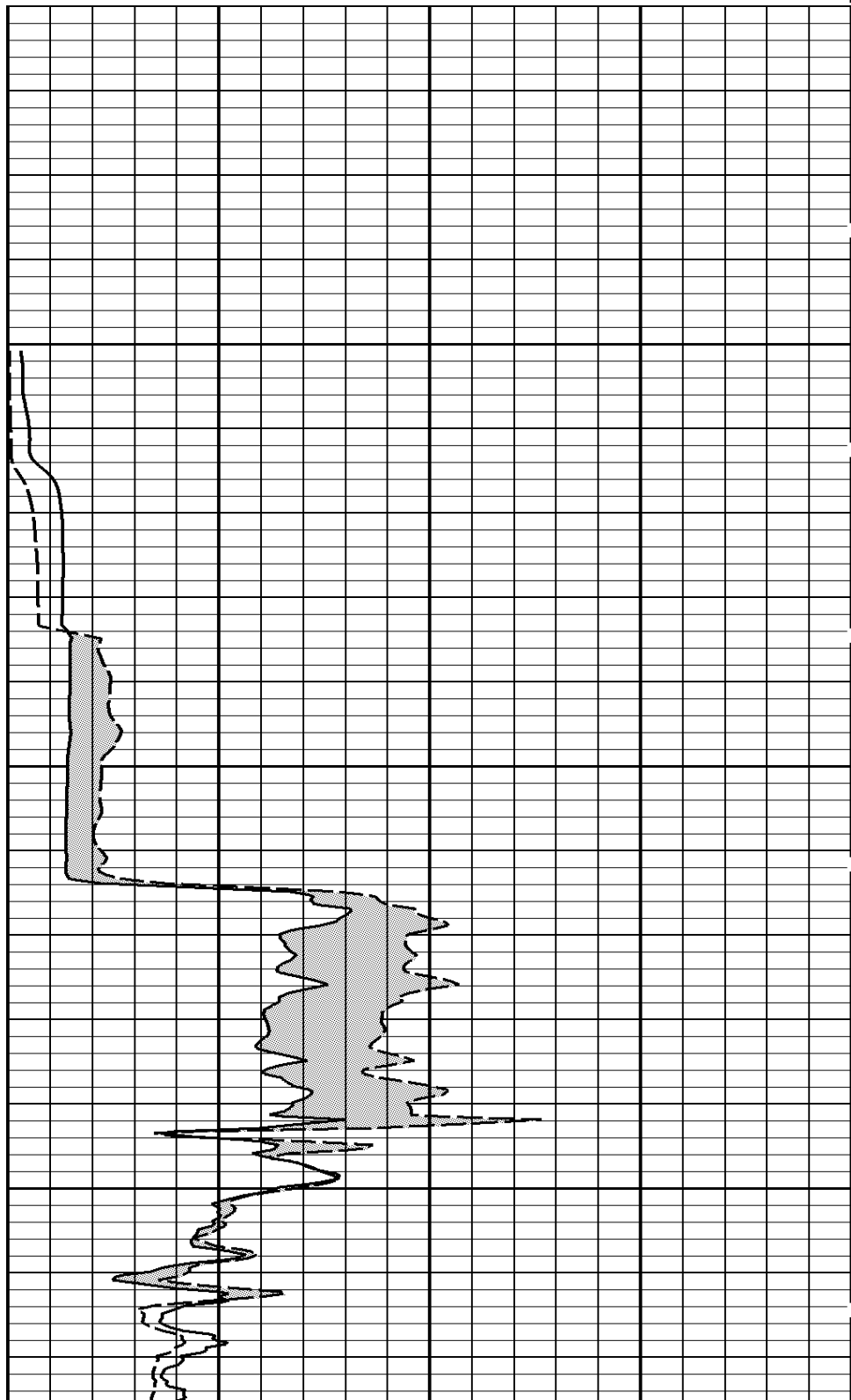


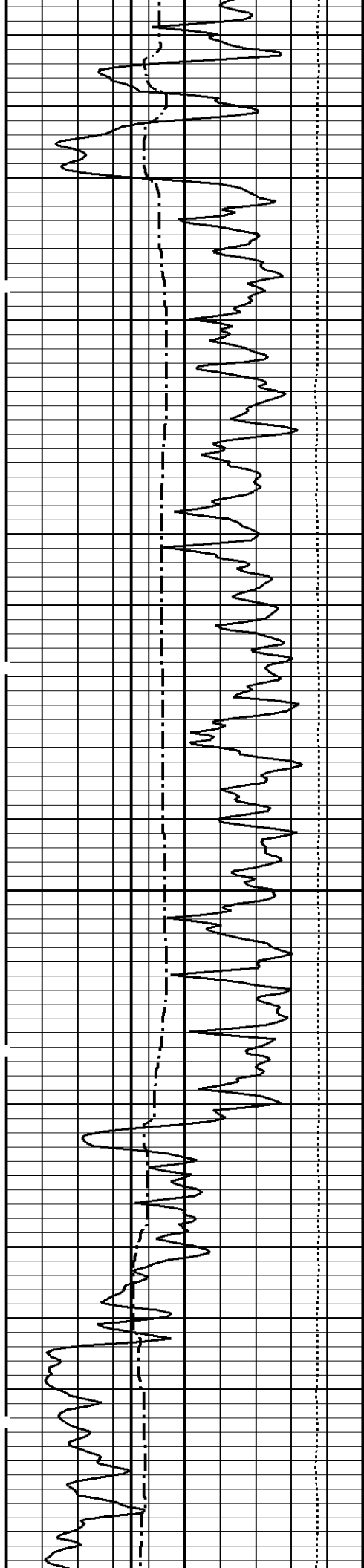
1:240 MAIN SECTION



200

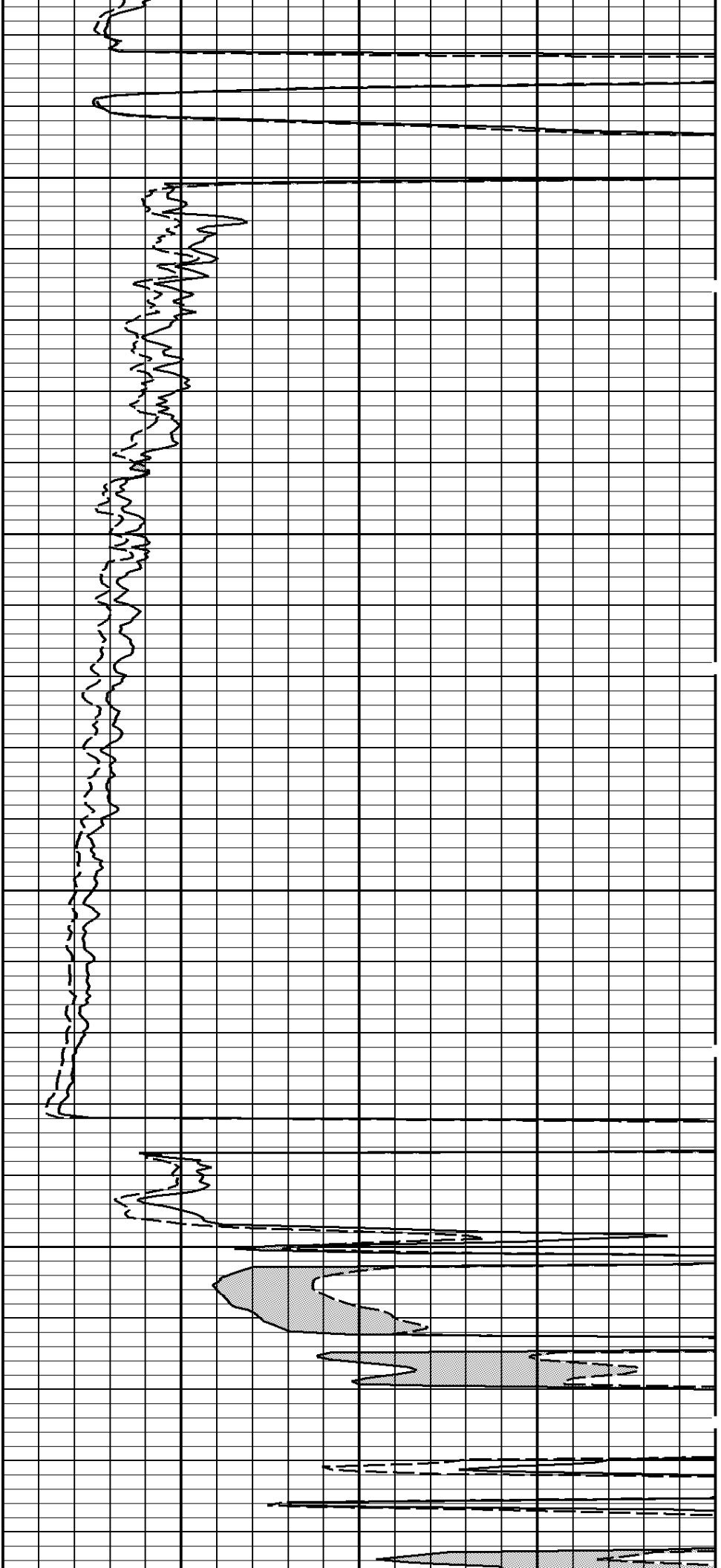
300

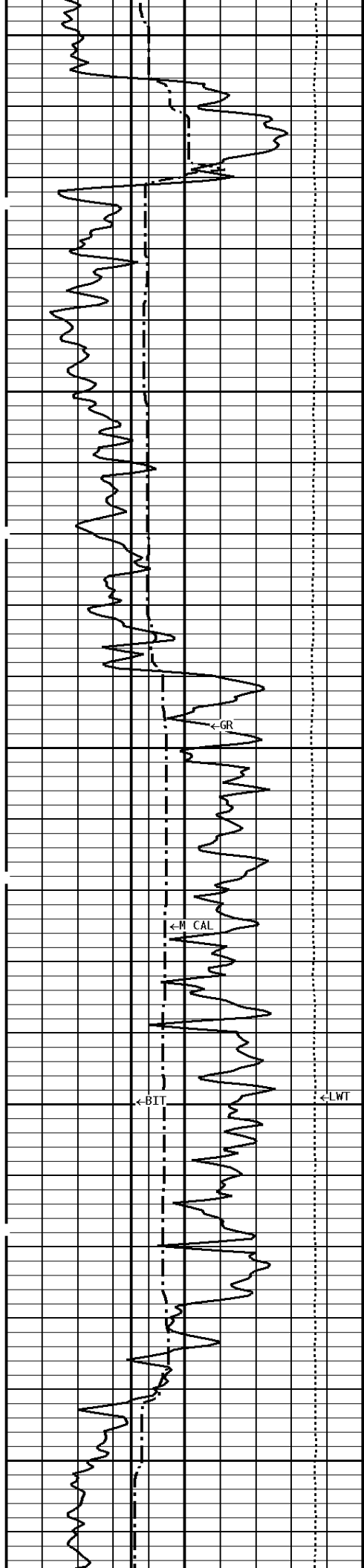




400

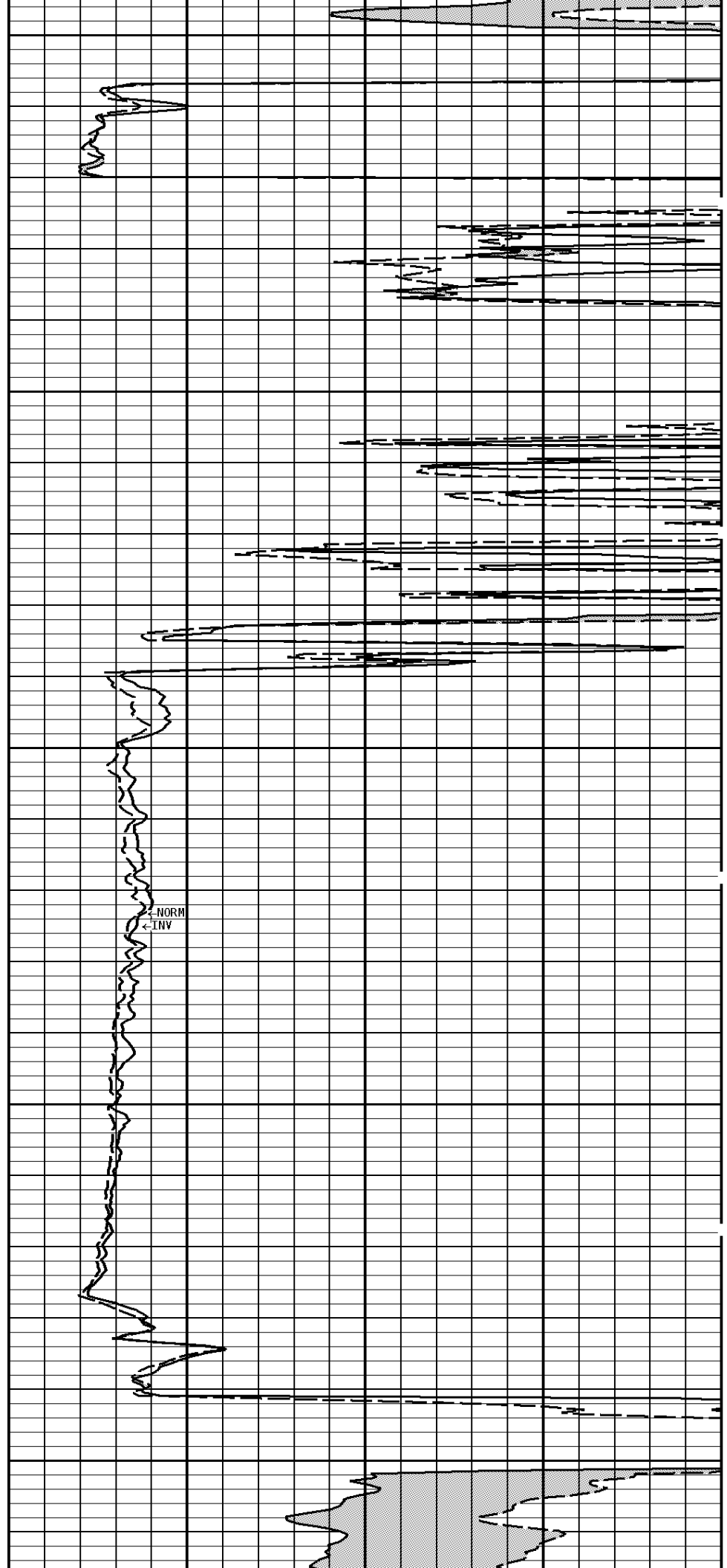
500

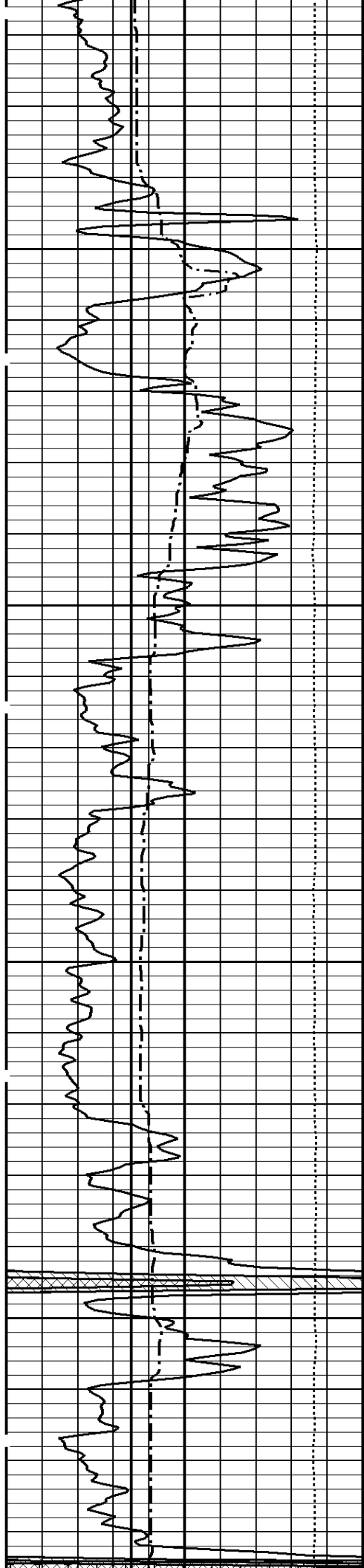




600

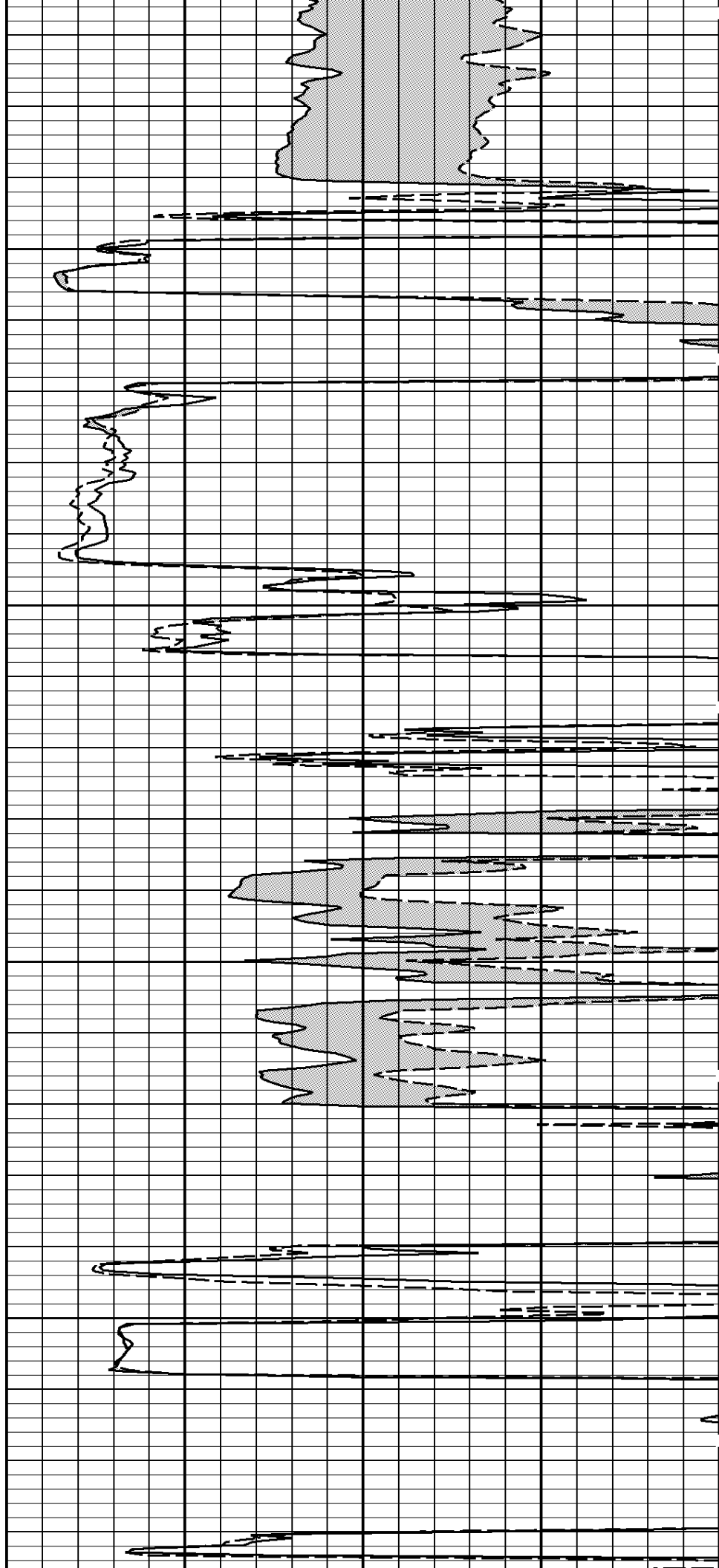
700

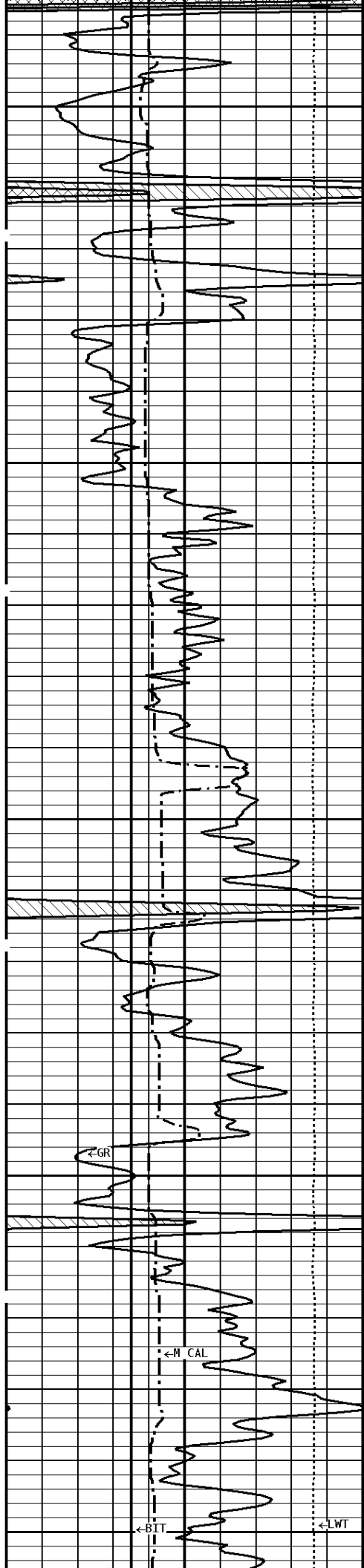




800

900

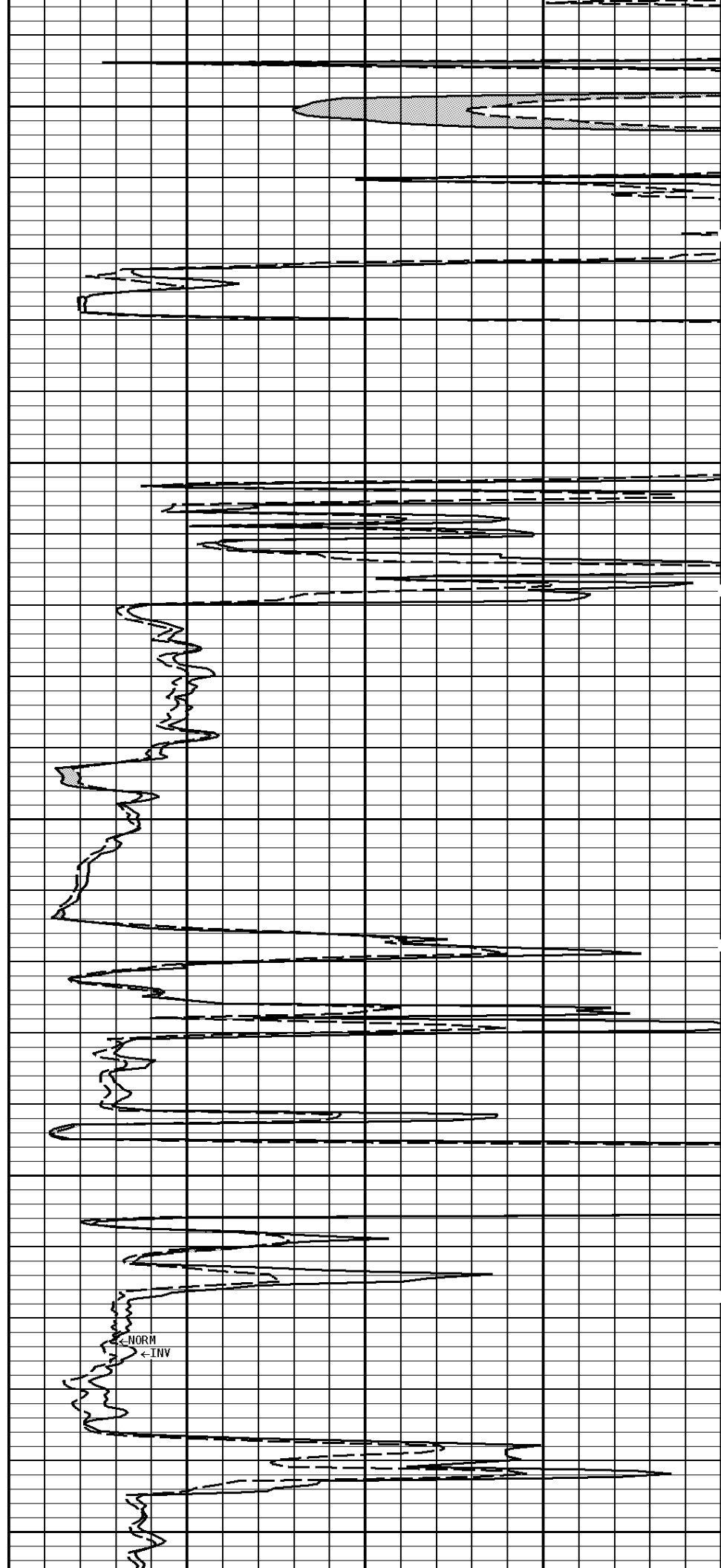




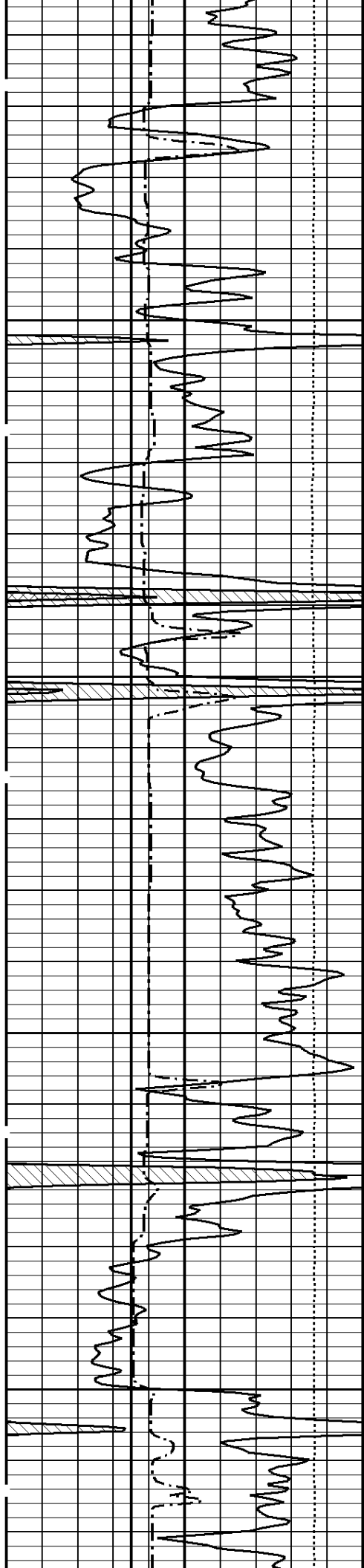
1000

1100

1200

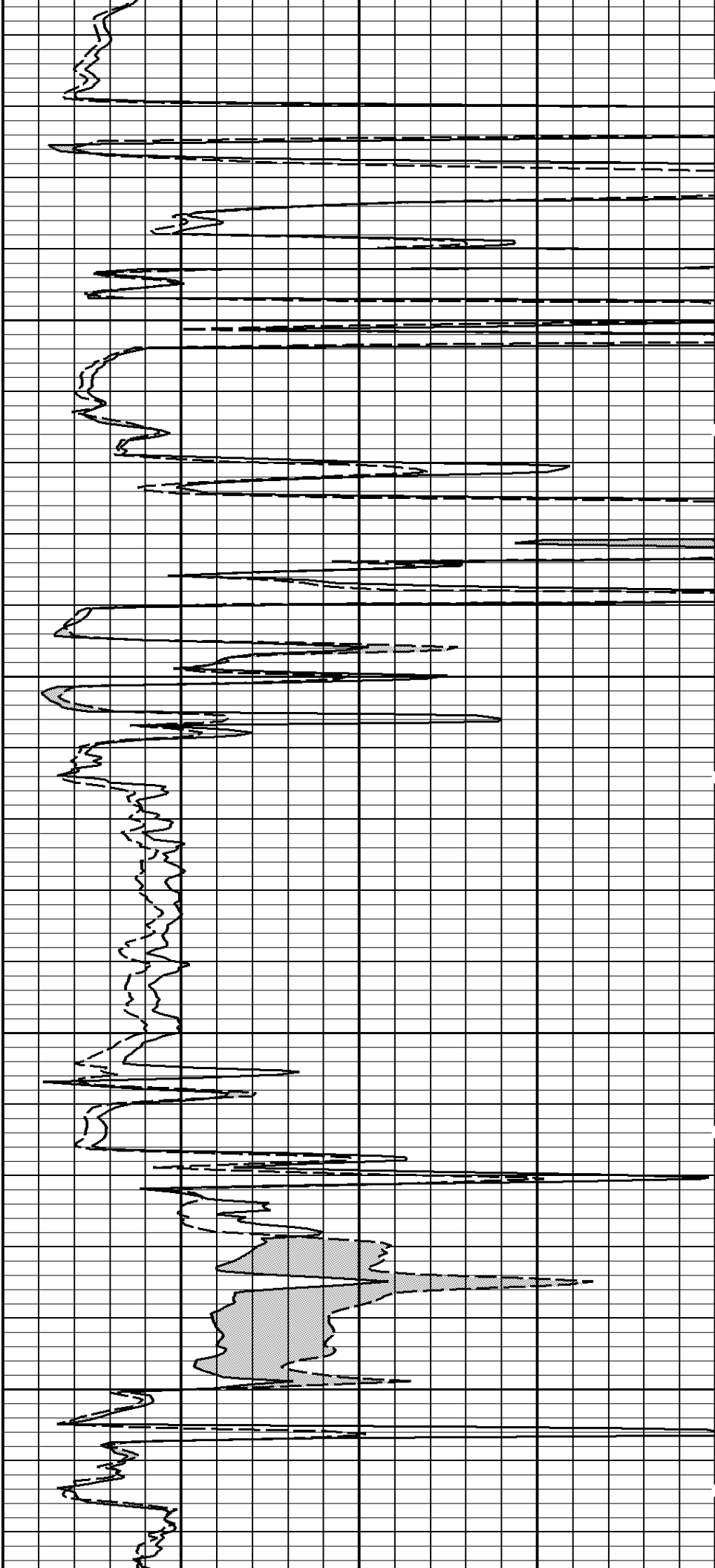


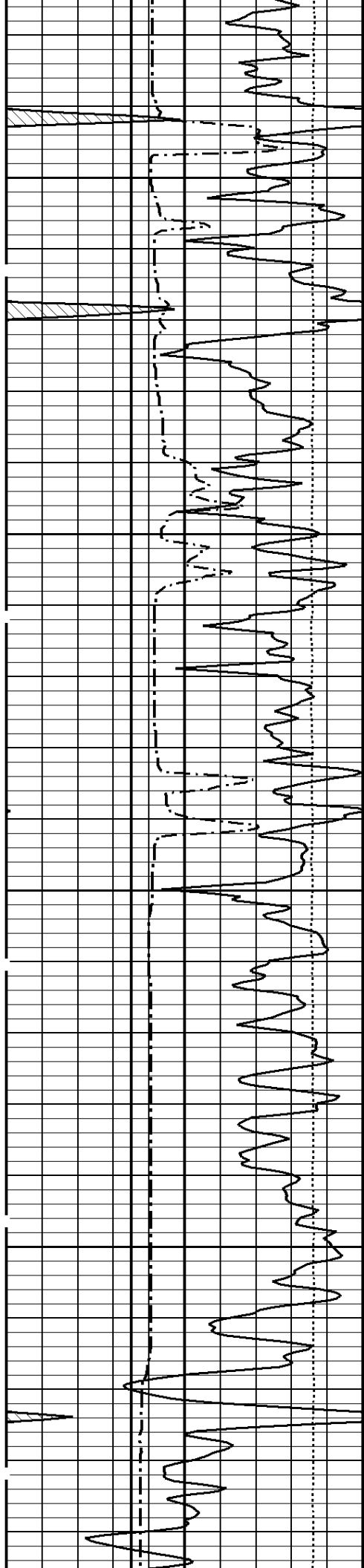




1300

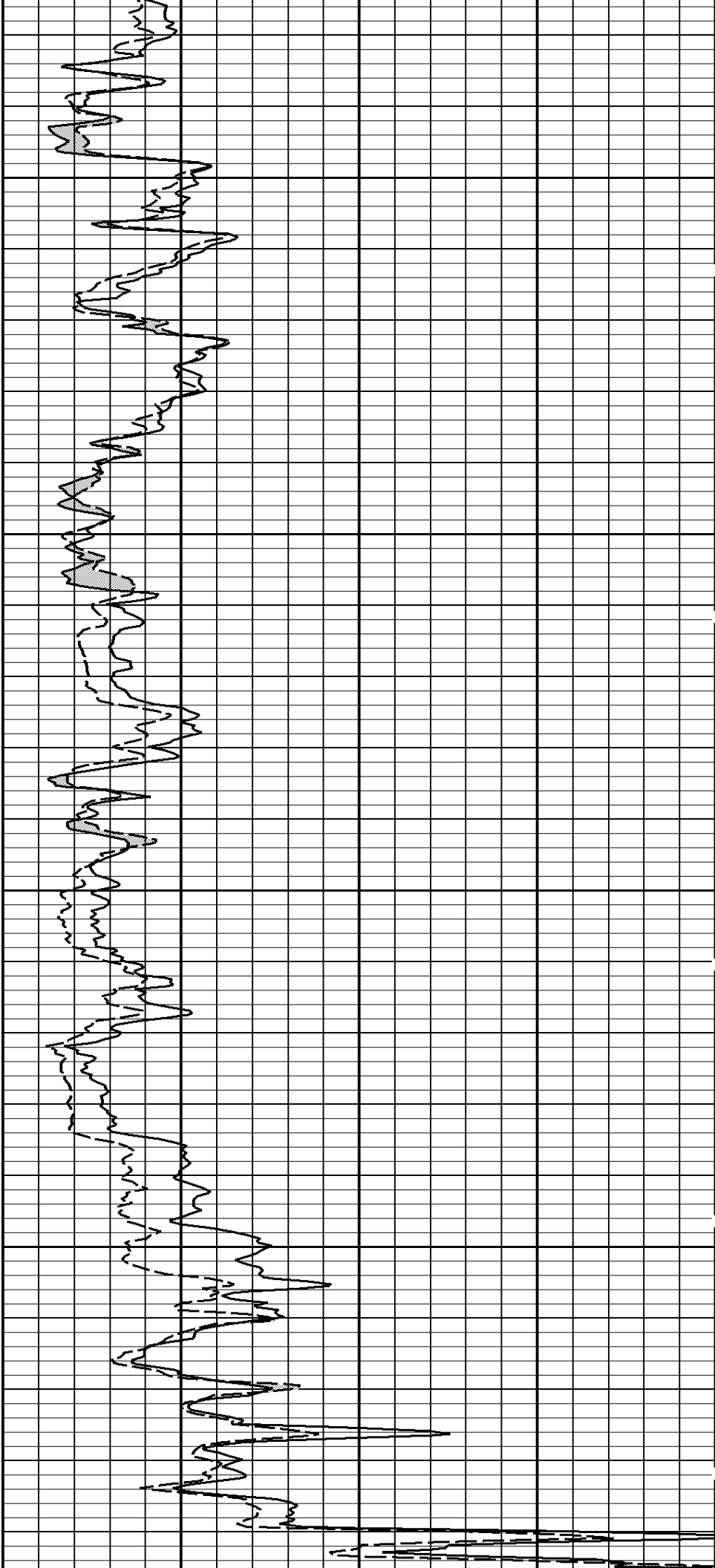
1400

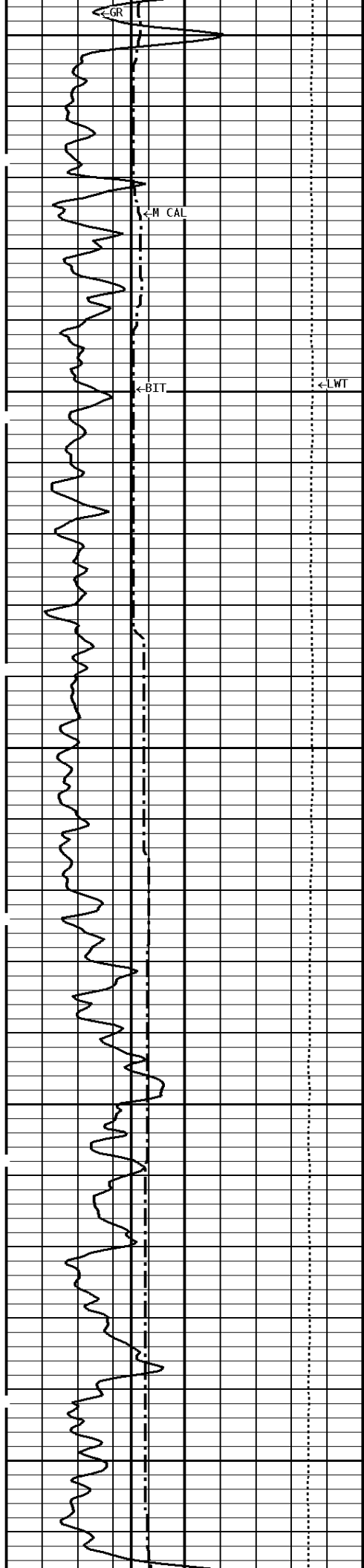




1500

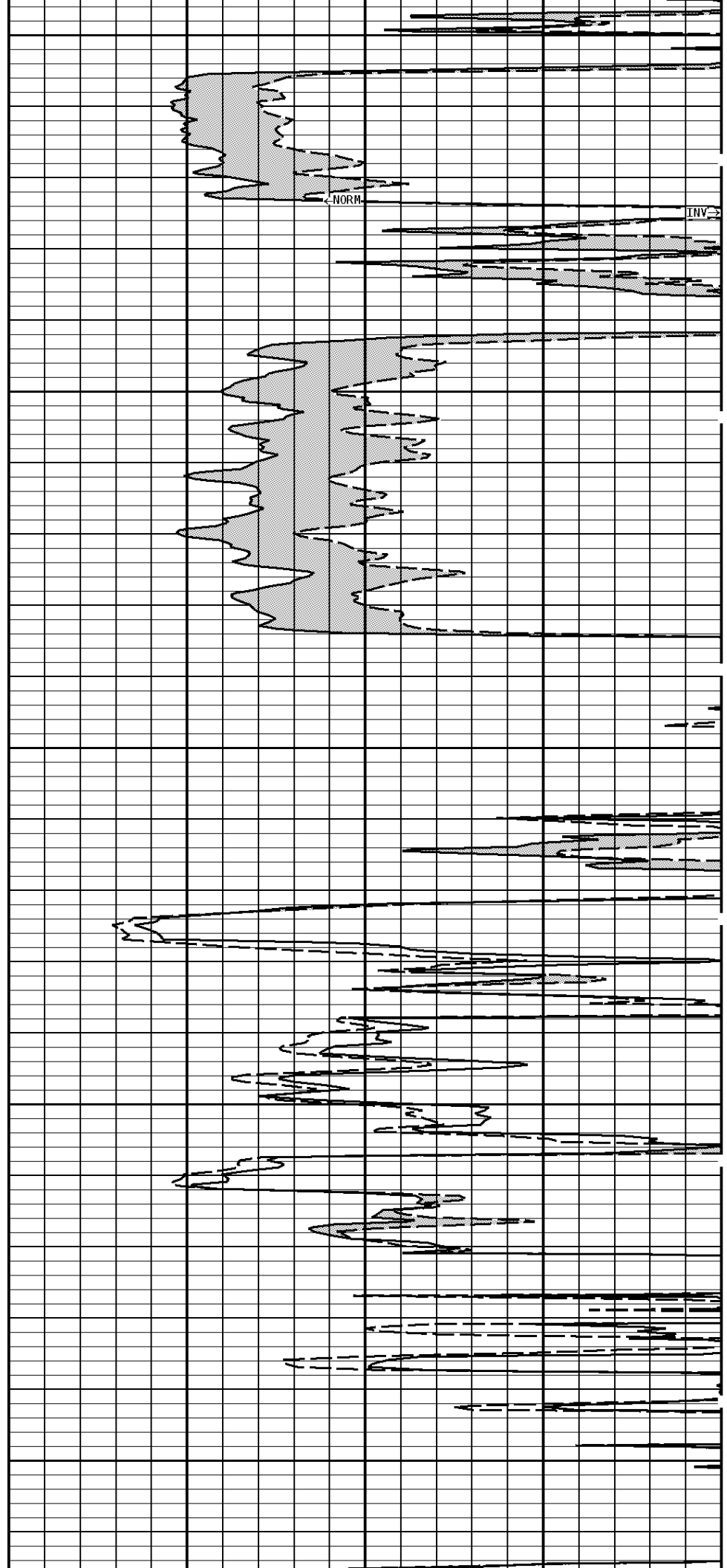
1600

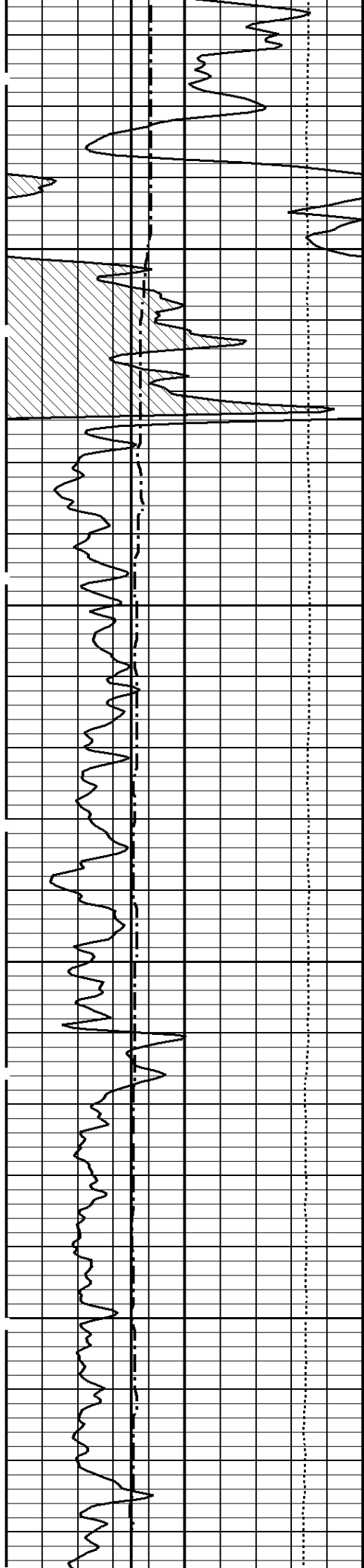




1700

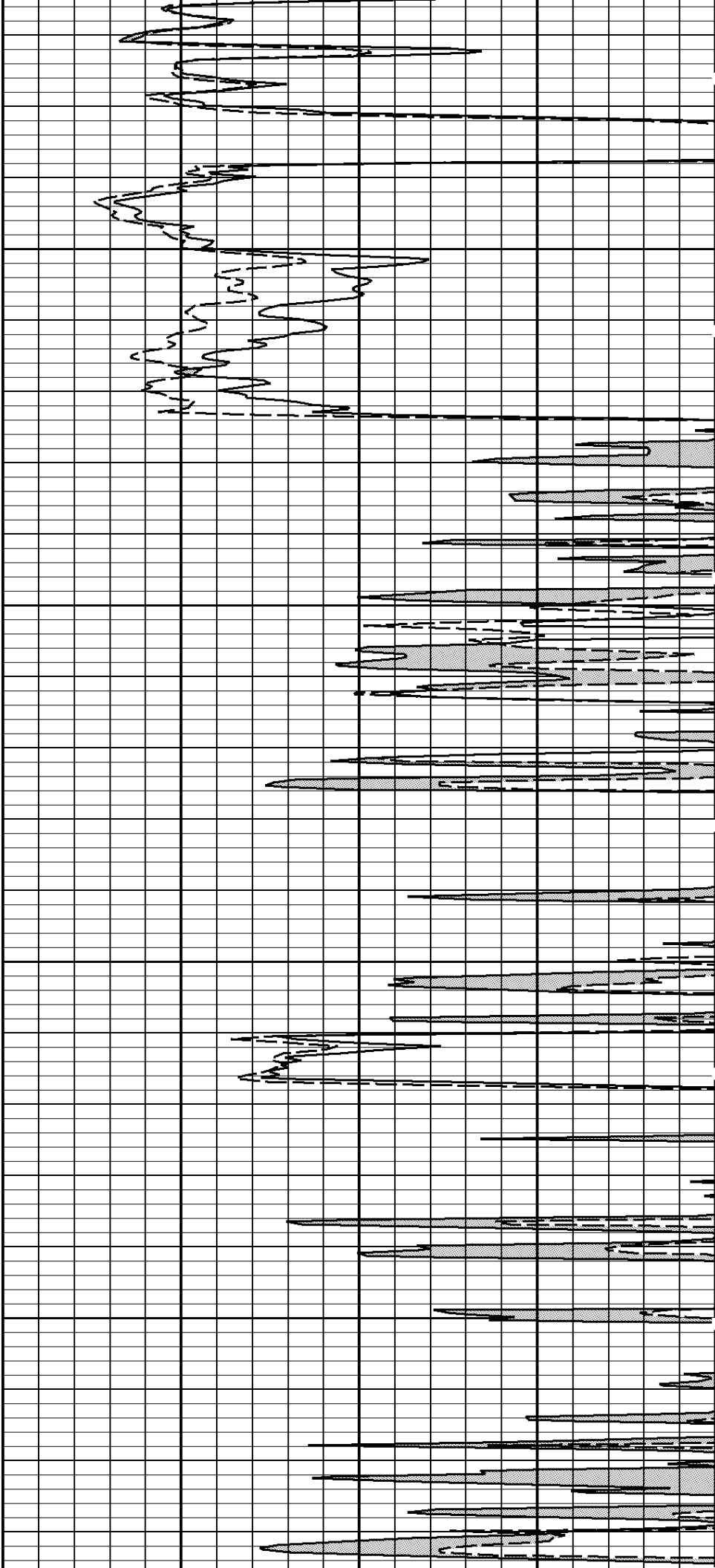
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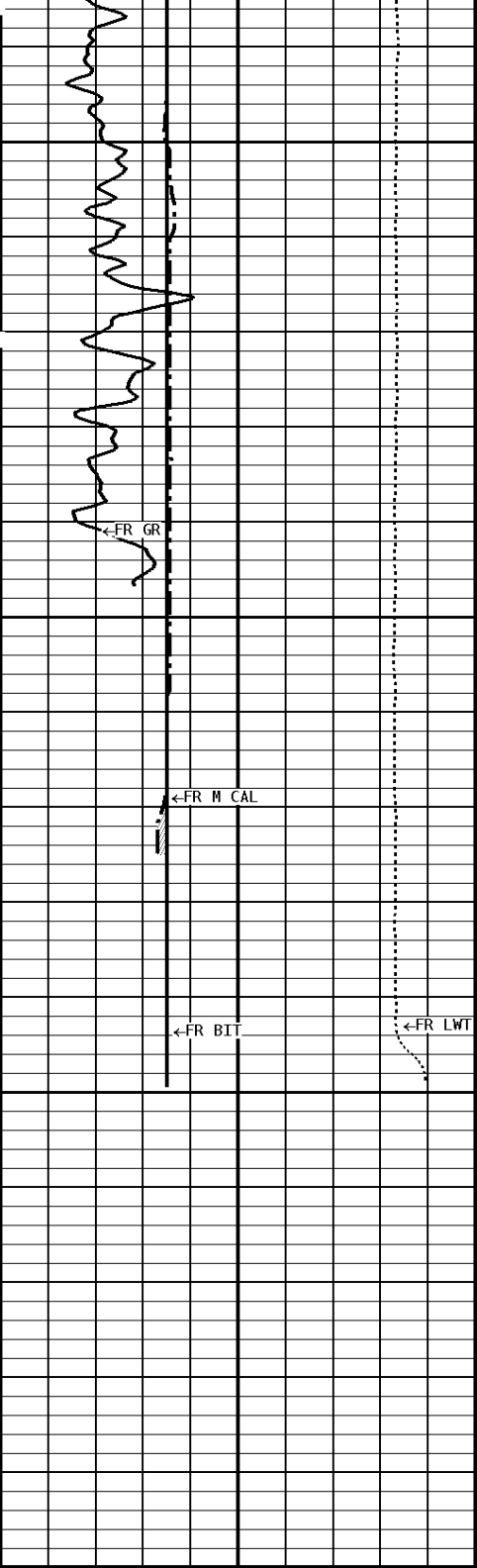




1900

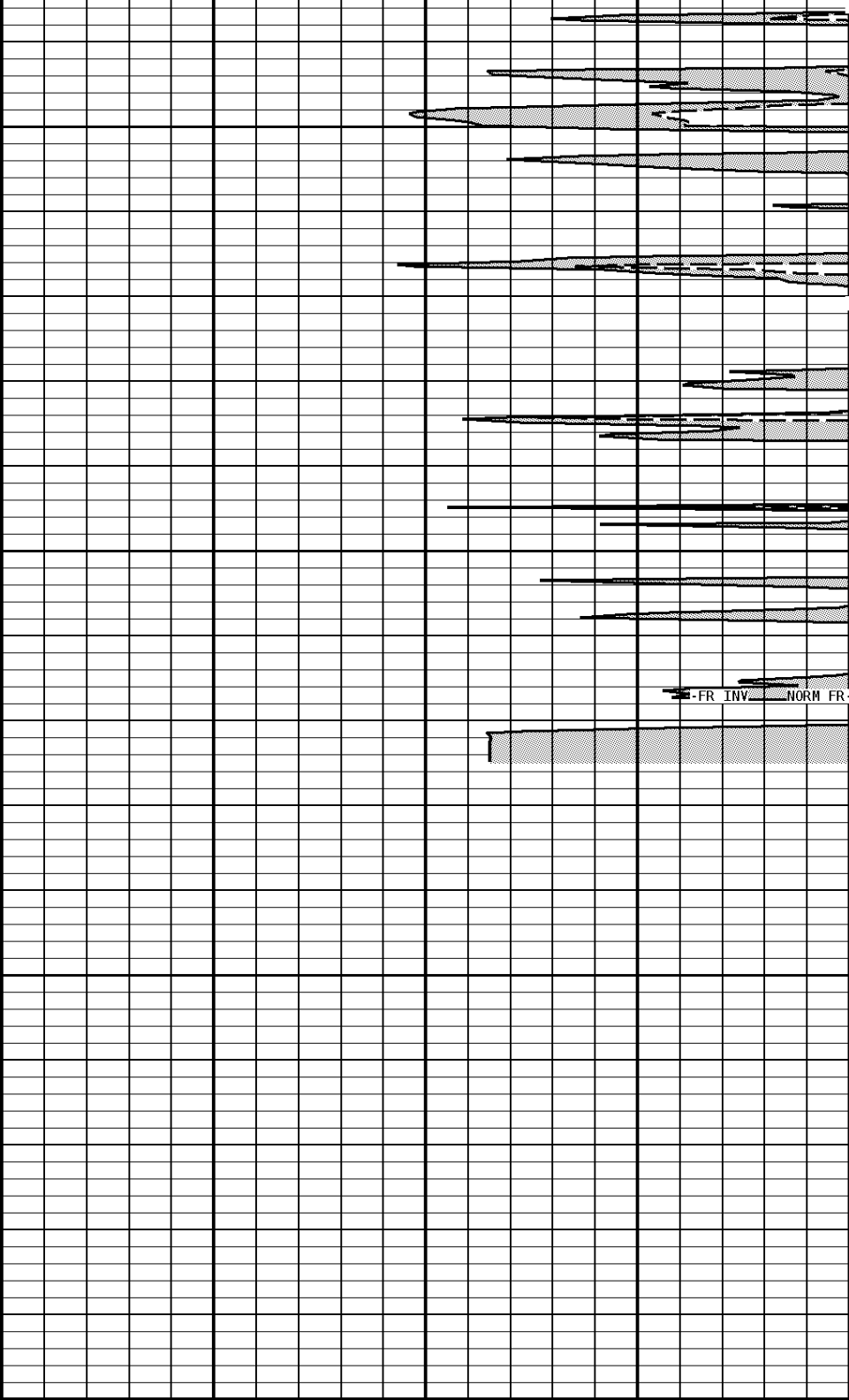
2000





2100

2194



1:240 MAIN SECTION

|                              |            |
|------------------------------|------------|
| GAMMA RAY<br>API UNITS       |            |
| 150<br>0                     | 300<br>150 |
| TENSION<br>LBS               |            |
| 10000                        | 0          |
| CALIPER MICRO<br>INCHES (IN) |            |
| 16                           | 26         |

|                 |    |
|-----------------|----|
| NORMAL<br>OHMM  |    |
| 0               | 40 |
| INVERSE<br>OHMM |    |
| 0               | 40 |

|                         |    |
|-------------------------|----|
| 6                       | 16 |
| BIT SIZE<br>INCHES (IN) |    |
| 6                       | 16 |
|                         |    |

\* Borehole Zone Factors \*

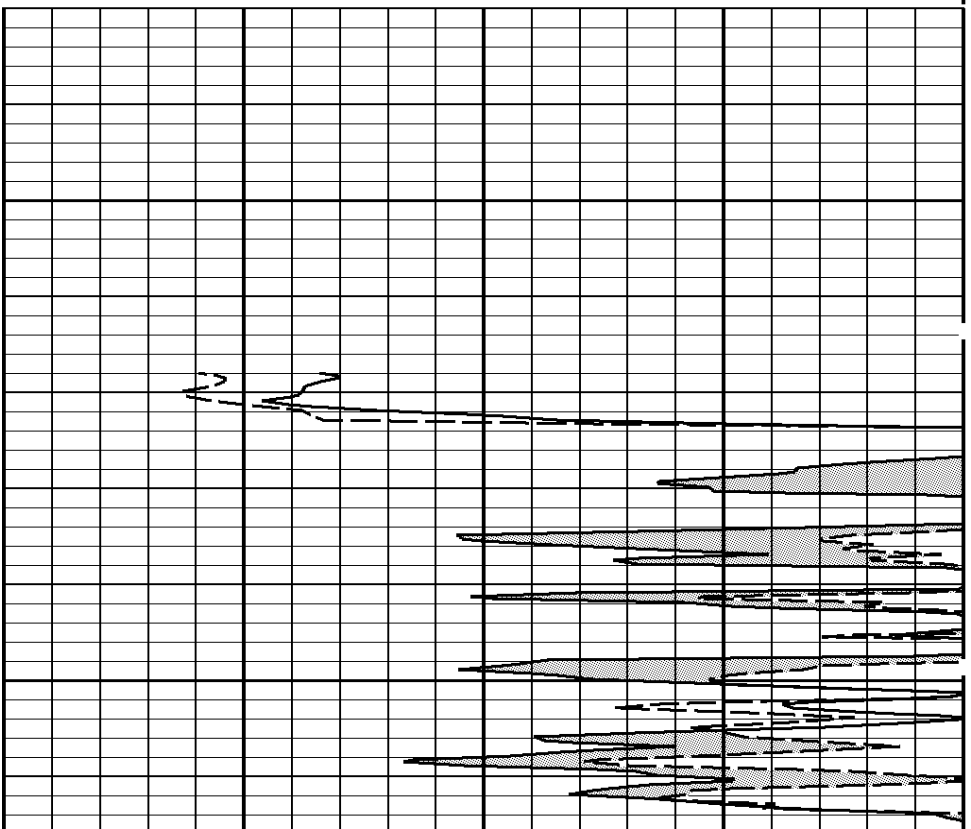
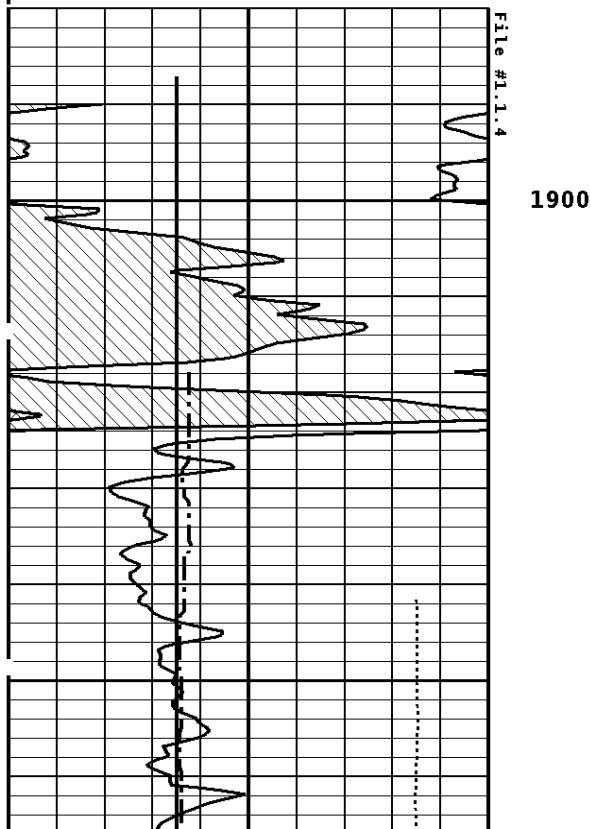
|                          |            |    |     |      |
|--------------------------|------------|----|-----|------|
| Zone 1                   | 99999.0    | to | 0.0 | Feet |
| Drill Bit Size           | 9.500 in   |    |     |      |
| MSTNG Normal Correction  | 0.00 ohm/m |    |     |      |
| MSTNG Inverse Correction | 0.00 ohm/m |    |     |      |

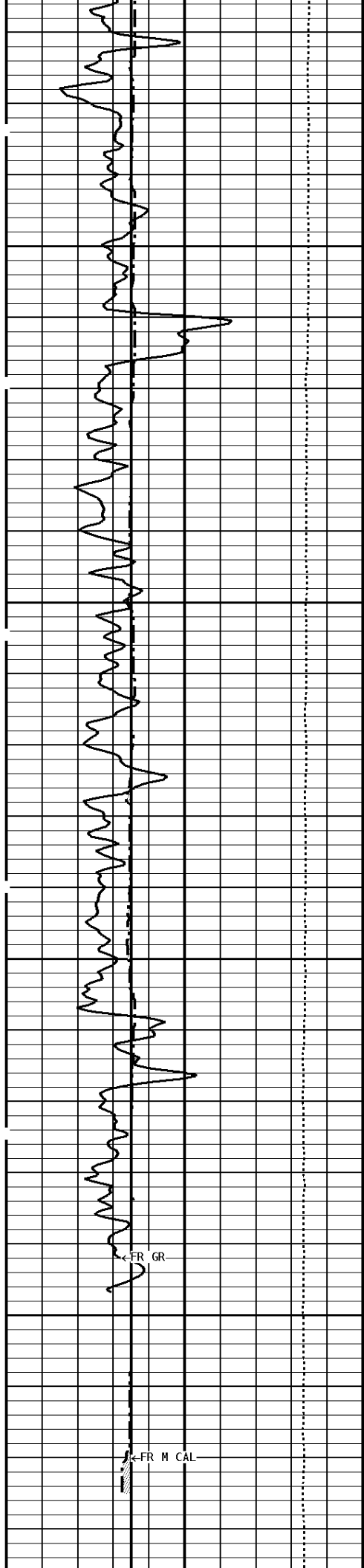
|            |                            |            |                              |
|------------|----------------------------|------------|------------------------------|
| Well File: | day-pet-mcg-20-mstk-mar-30 | Scale:     | 1:240                        |
| Segment:   | V1.D1.S4 RP                | Acquired:  | 2013-03/30 15:15 3.2.0-11401 |
| Reference: | 0                          | Processed: | 2013-03/30 16:23 3.2.0-11401 |

|                              |  |
|------------------------------|--|
| BIT SIZE<br>INCHES (IN)      |  |
| 616                          |  |
|                              |  |
| CALIPER MICRO<br>INCHES (IN) |  |
| 1626                         |  |
| 616                          |  |
|                              |  |
| TENSION<br>LBS               |  |
| 100000                       |  |
|                              |  |
| GAMMA RAY<br>API UNITS       |  |
| 150300                       |  |
| 0150                         |  |
|                              |  |

|                 |  |
|-----------------|--|
| INVERSE<br>OHMM |  |
| 040             |  |
|                 |  |
| NORMAL<br>OHMM  |  |
| 040             |  |
|                 |  |

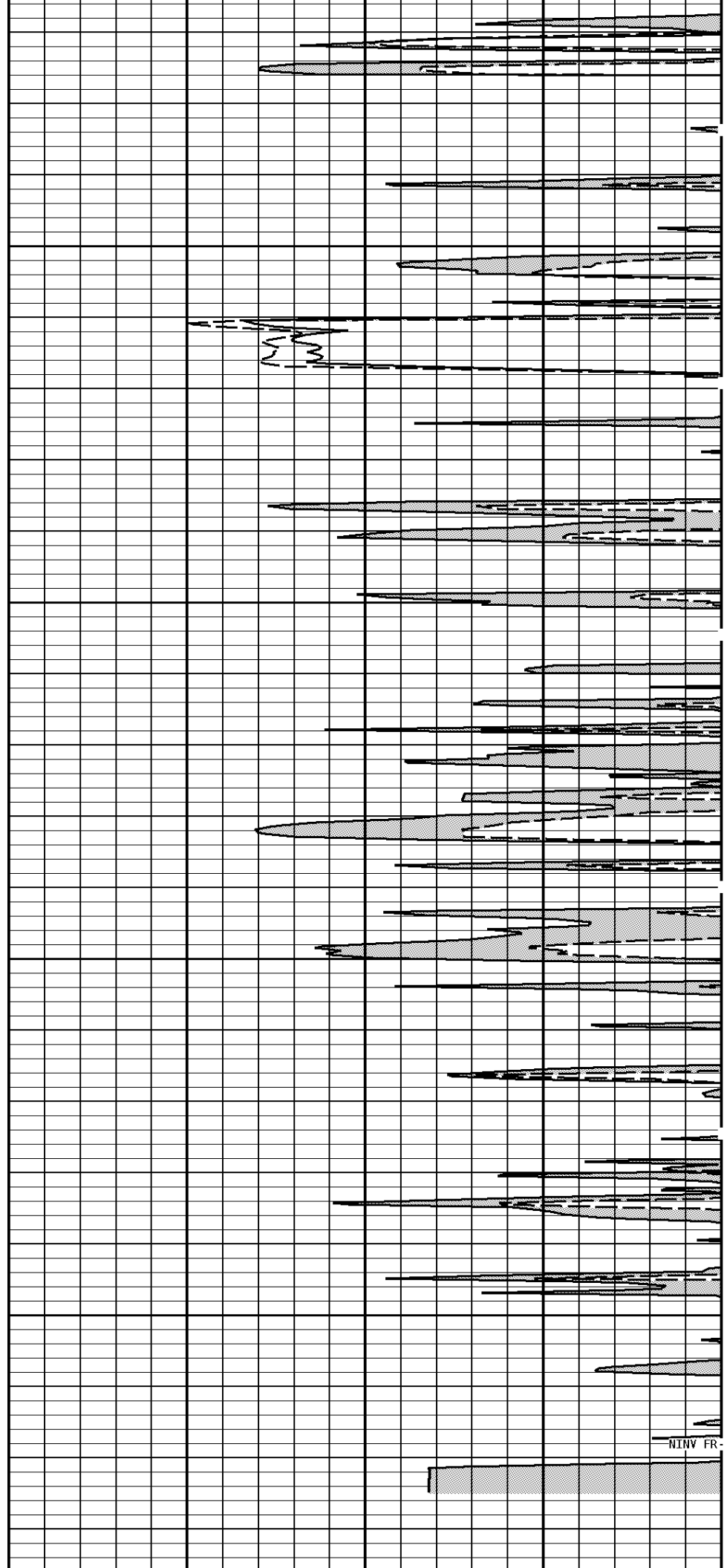
1:240 REPEAT SECTION





2000

2100



←FR BIT

←FR LWT

2194

File #1.1.4

## 1:240 REPEAT SECTION

GAMMA RAY  
API UNITS

150 0 300 150

TENSION  
LBS

10000 0

CALIPER MICRO  
INCHES (IN)

16 6 26 16

BIT SIZE  
INCHES (IN)

6 16

NORMAL  
OHMM

0 40

INVERSE  
OHMM

0 40

### \* Borehole Zone Factors \*

Zone 1 99999.0 to 0.0 Feet

|                          |       |       |
|--------------------------|-------|-------|
| Drill Bit Size           | 9.500 | in    |
| MSTNG Normal Correction  | 0.00  | ohm/m |
| MSTNG Inverse Correction | 0.00  | ohm/m |

### \* Calibration Summary \*

#### Shop Calibration GRT-B

Performed : 15-Mar-2013 Time : 11:26  
Sensor Suite : GR-GR5 ID : GRT-BC-41

|               | Measured | Units | Calibrated | Units |
|---------------|----------|-------|------------|-------|
| GR Background | Jig 54   | CPS   | Jig 175    | GRAPI |

#### Shop Calibration MST-DA

Performed : 15-Mar-2013 Time : 09:52  
Sensor Suite : CALI-MSN ID : MST-DA-36

|        | Jig - Measured         | Jig - Calibrated       | Units |
|--------|------------------------|------------------------|-------|
| CL # 1 | Ring#1 7.9 Ring#2 12.2 | Ring#1 6.0 Ring#2 12.0 | IN.   |



Performed : 15-Mar-2013  
Sensor Suite : MSTDA-NI

Time : 09:48  
ID : MST-DA-36

| Internal |          |           |       |            |           |       |
|----------|----------|-----------|-------|------------|-----------|-------|
|          | Measured |           | Units | Calibrated |           | Units |
|          | Zero     | Reference |       | Zero       | Reference |       |
| INV-V    | 218.0    | 30277.7   |       | 0.00       | 1460.00   | MV    |
| NOR-V    | 160.5    | 30105.0   |       | 0.00       | 1546.00   | MV    |
| IN-C     | 156.0    | 30432.1   |       | 0.00       | 15.46     | UA    |
| INV-R    |          |           |       |            | 30.55     | OHMM  |
| NOR-R    |          |           |       |            | 55.11     | OHMM  |



***Tucker***  
***ENERGY SERVICES***

Company: DAYSTAR PETROLEUM LLC.

Well: MCGINNIS-FEE #20

Location: 1980' FSL & 4290' FEL

Logged: 2013-03-30

K.B. Elev: 0.0 Ft