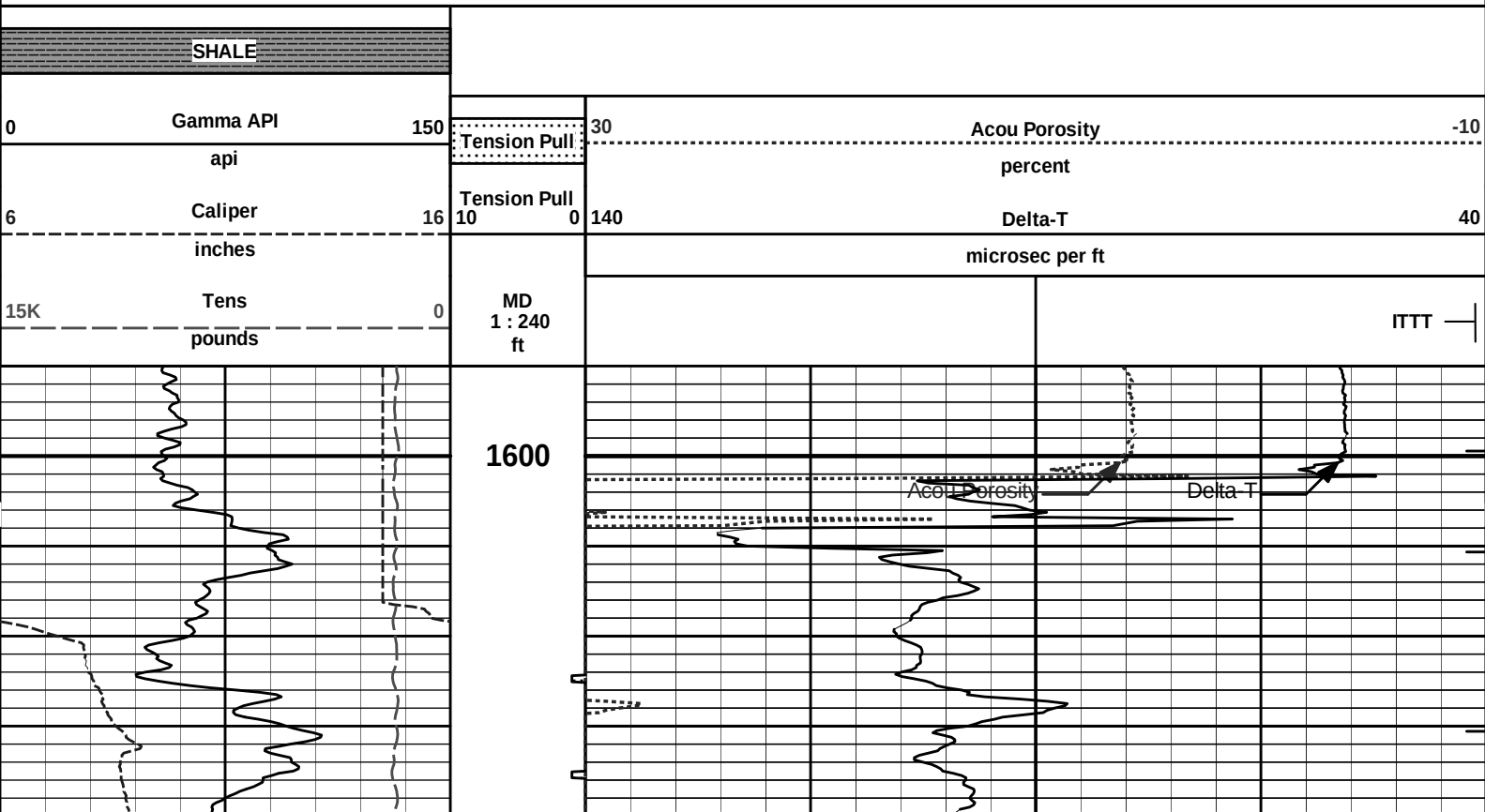


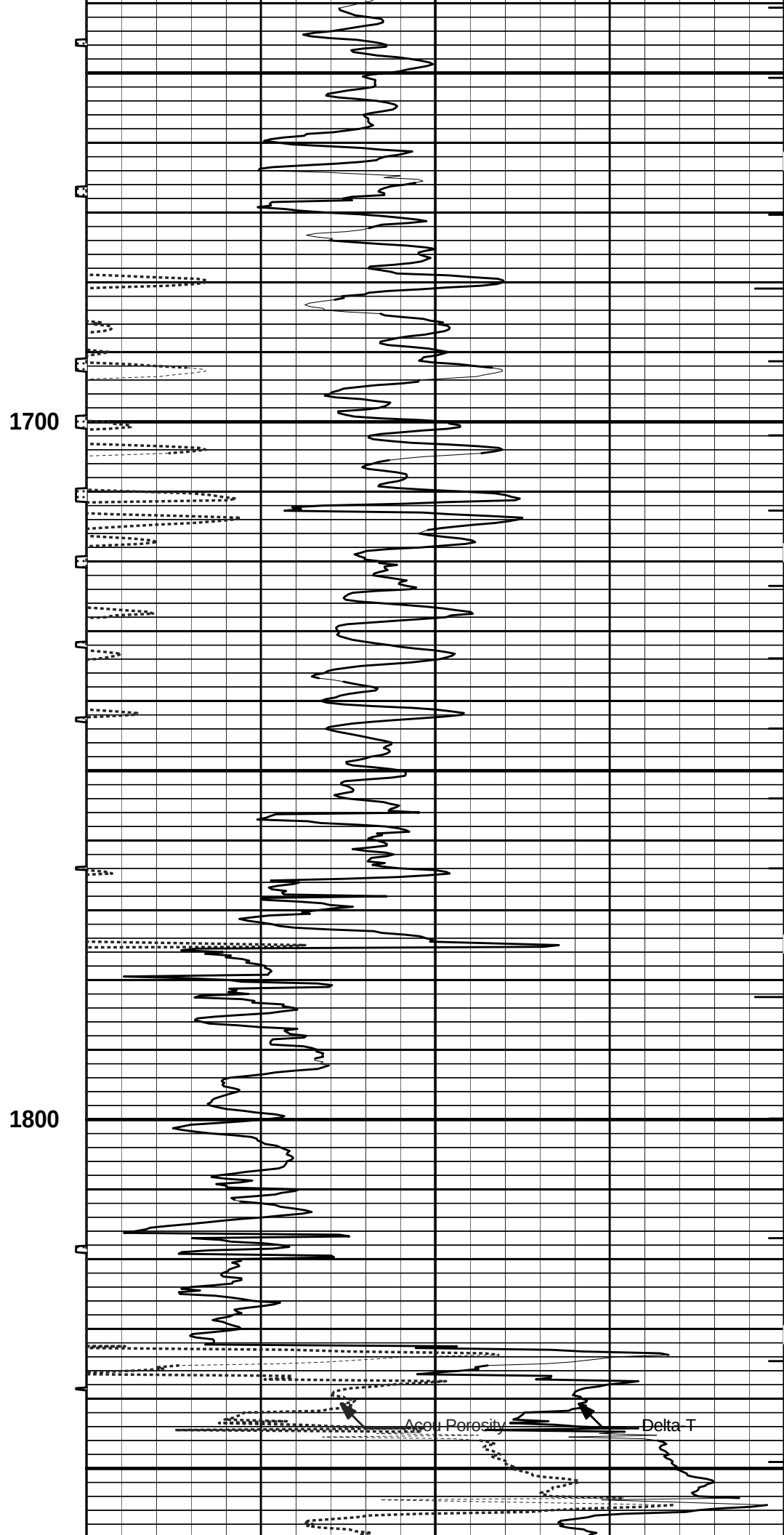
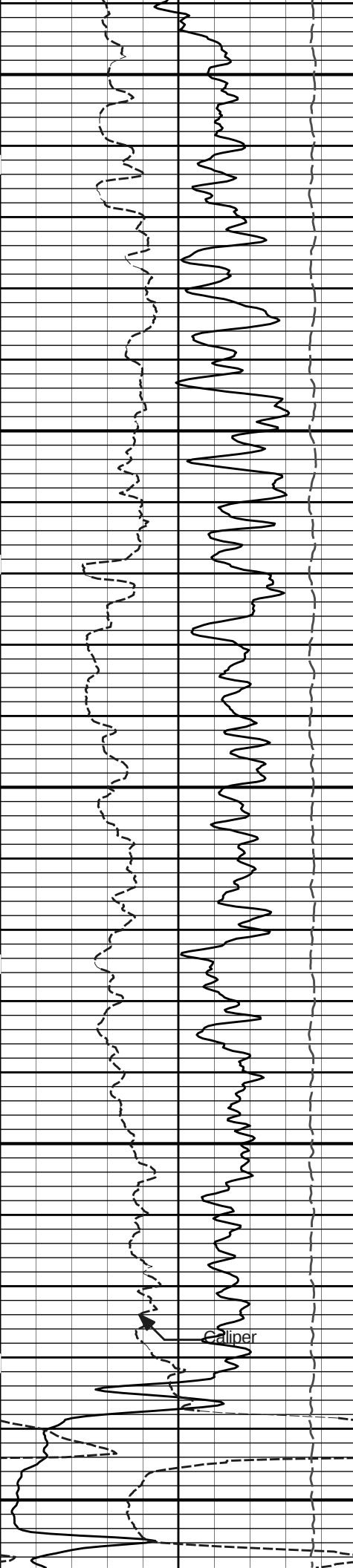
# BOREHOLE COMPENSATED SONIC ARRAY LOG

Fold here

|                                         |  |            |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
|-----------------------------------------|--|------------|--|---|--|--------------------------------|--|----------|--|--|--|-----------------------------------------|--|-----------------|--|---------------|--|-------------|--|-----------------|--|--|--|
| Service Ticket No.: 900724497           |  |            |  |   |  | API Serial No.: 15081220330000 |  |          |  |  |  | PGM Version: WL INSITE R3.8.4 (Build 5) |  |                 |  |               |  |             |  |                 |  |  |  |
| CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE |  |            |  |   |  |                                |  |          |  |  |  | RESISTIVITY SCALE CHANGES               |  |                 |  |               |  |             |  |                 |  |  |  |
| Date                                    |  | Sample No. |  |   |  |                                |  |          |  |  |  | Type Log                                |  | Depth           |  | Scale Up Hole |  |             |  | Scale Down Hole |  |  |  |
| Depth-Driller                           |  |            |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Type Fluid in Hole                      |  |            |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Density                                 |  | Viscosity  |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Ph                                      |  | Fluid Loss |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Source of Sample                        |  |            |  |   |  |                                |  |          |  |  |  | RESISTIVITY EQUIPMENT DATA              |  |                 |  |               |  |             |  |                 |  |  |  |
| Rm @ Meas. Temp                         |  |            |  | @ |  |                                |  | @        |  |  |  | Run No.                                 |  | Tool Type & No. |  | Pad Type      |  | Tool Pos.   |  | Other           |  |  |  |
| Rmf @ Meas. Temp.                       |  |            |  | @ |  |                                |  | @        |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Rmc @ Meas. Temp.                       |  |            |  | @ |  |                                |  | @        |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Source Rmf                              |  | Rmc        |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Rm @ BHT                                |  |            |  | @ |  |                                |  | @        |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Rmf @ BHT                               |  |            |  | @ |  |                                |  | @        |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| Rmc @ BHT                               |  |            |  | @ |  |                                |  | @        |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| EQUIPMENT DATA                          |  |            |  |   |  |                                |  |          |  |  |  |                                         |  |                 |  |               |  |             |  |                 |  |  |  |
| GAMMA                                   |  |            |  |   |  | ACOUSTIC                       |  |          |  |  |  | DENSITY                                 |  |                 |  |               |  | NEUTRON     |  |                 |  |  |  |
| Run No.                                 |  | ONE        |  |   |  | Run No.                        |  | ONE      |  |  |  | Run No.                                 |  |                 |  |               |  | Run No.     |  |                 |  |  |  |
| Serial No.                              |  | 11048627   |  |   |  | Serial No.                     |  | 10747683 |  |  |  | Serial No.                              |  |                 |  |               |  | Serial No.  |  |                 |  |  |  |
| Model No.                               |  | GTET       |  |   |  | Model No.                      |  | BSAT     |  |  |  | Model No.                               |  |                 |  |               |  | Model No.   |  |                 |  |  |  |
| Diameter                                |  | 3.625"     |  |   |  | No. of Cent.                   |  | 2        |  |  |  | Diameter                                |  |                 |  |               |  | Diameter    |  |                 |  |  |  |
| Detector Model No.                      |  | T-102      |  |   |  | Spacing                        |  | 6"       |  |  |  | Log Type                                |  |                 |  |               |  | Log Type    |  |                 |  |  |  |
| Type                                    |  | SCINT      |  |   |  |                                |  |          |  |  |  | Source Type                             |  |                 |  |               |  | Source Type |  |                 |  |  |  |
| Length                                  |  | 8'         |  |   |  | LSA [Y/N]                      |  | NO       |  |  |  | Serial No.                              |  |                 |  |               |  | Serial No.  |  |                 |  |  |  |
| Distance to Source                      |  | 10'        |  |   |  | FWDA [Y/N ]                    |  | NO       |  |  |  | Strength                                |  |                 |  |               |  | Strength    |  |                 |  |  |  |

| GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |      | GAMMA  |       | ACOUSTIC |       |     | DENSITY |       |   | NEUTRON |       |   |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--------|-------|----------|-------|-----|---------|-------|---|---------|-------|---|--------|
| Run                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Depth |      | Speed  | Scale |          | Scale |     | Matrix  | Scale |   | Matrix  | Scale |   | Matrix |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | From  | To   | ft/min | L     | R        | L     | R   |         | L     | R |         | L     | R |        |
| ONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5706  | 1604 | REC    | 0     | 150      | 30    | -10 | 47.6    |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| DIRECTIONAL INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| Maximum Deviation @                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |        |       |          |       |     | KOP @   |       |   |         |       |   |        |
| Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| CHLORIDES REPORTED AT 3,200 MG/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| LCM REPORTED AT 6 LB/BBL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| GTET-DSNT-SDLT-BSAT-ACRT RUN IN COMBINATION                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| TODAY'S CREW: R. DODD & D. MILLER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123                                                                                                                                                                                                                                                                                                                                                                                                                            |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF. |       |      |        |       |          |       |     |         |       |   |         |       |   |        |
| HALLIBURTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |      |        |       |          |       |     |         |       |   |         |       |   |        |

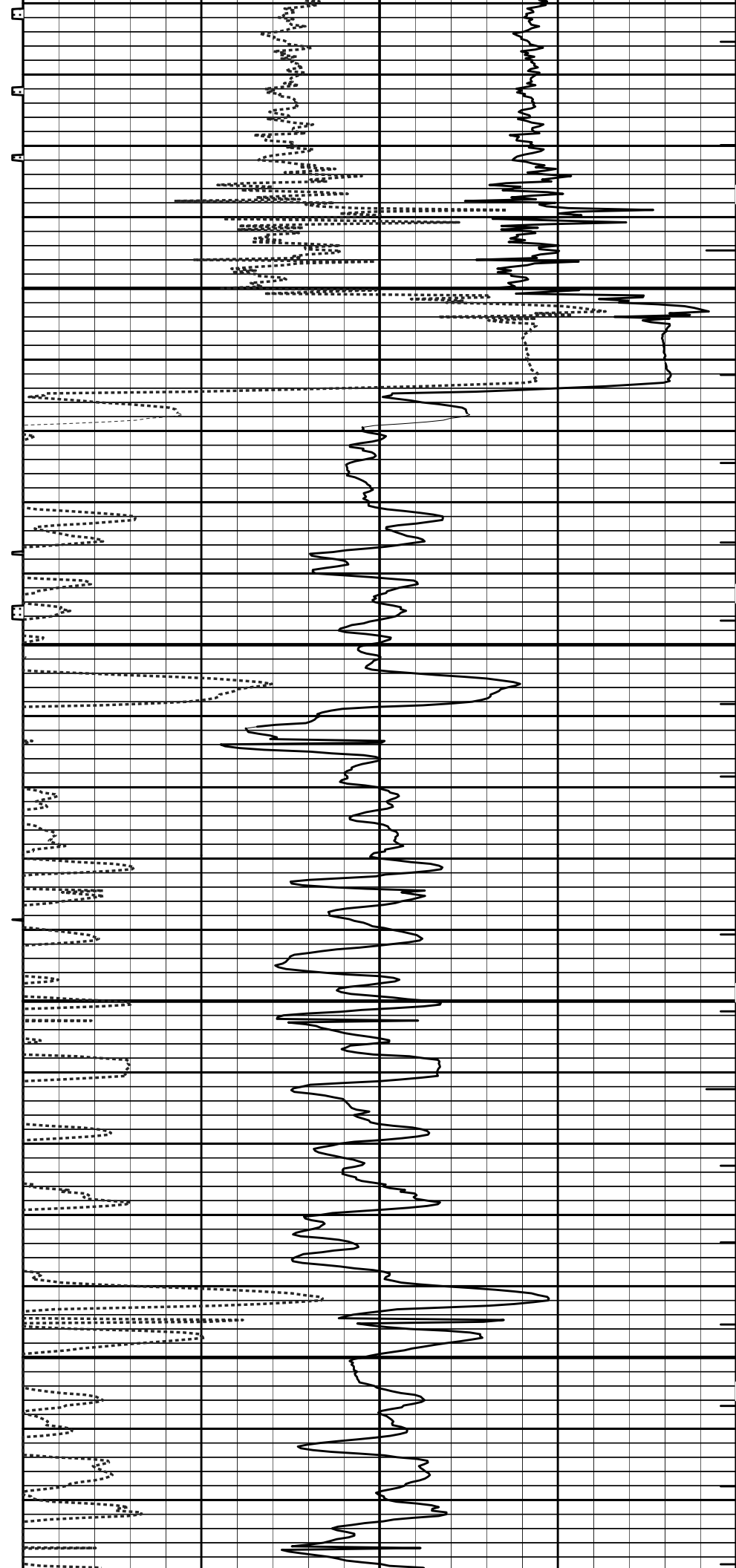


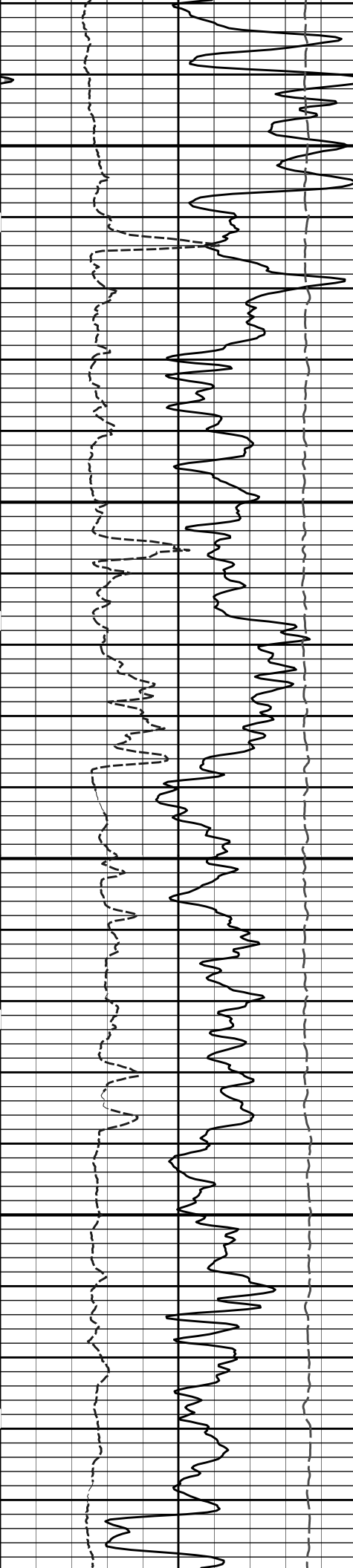




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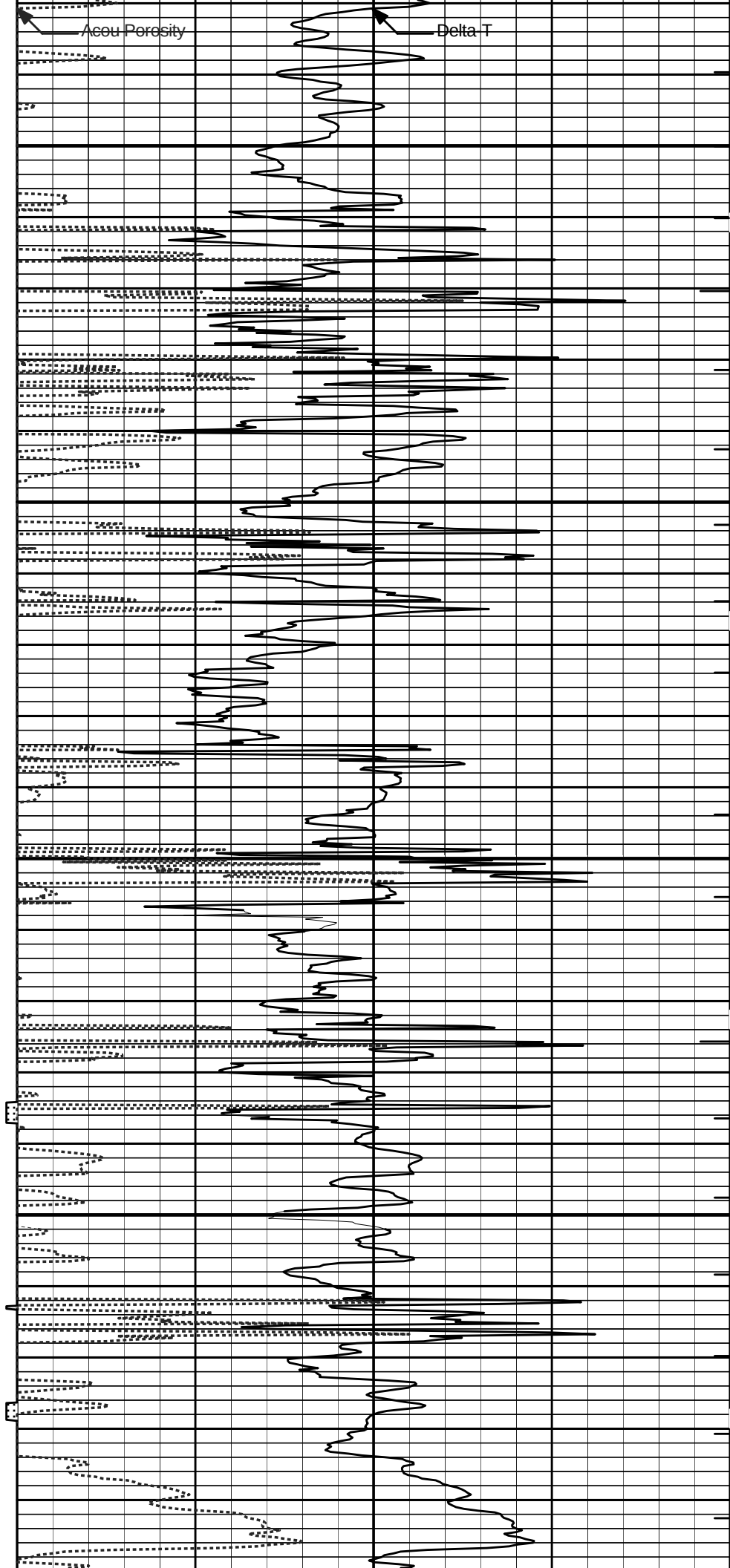


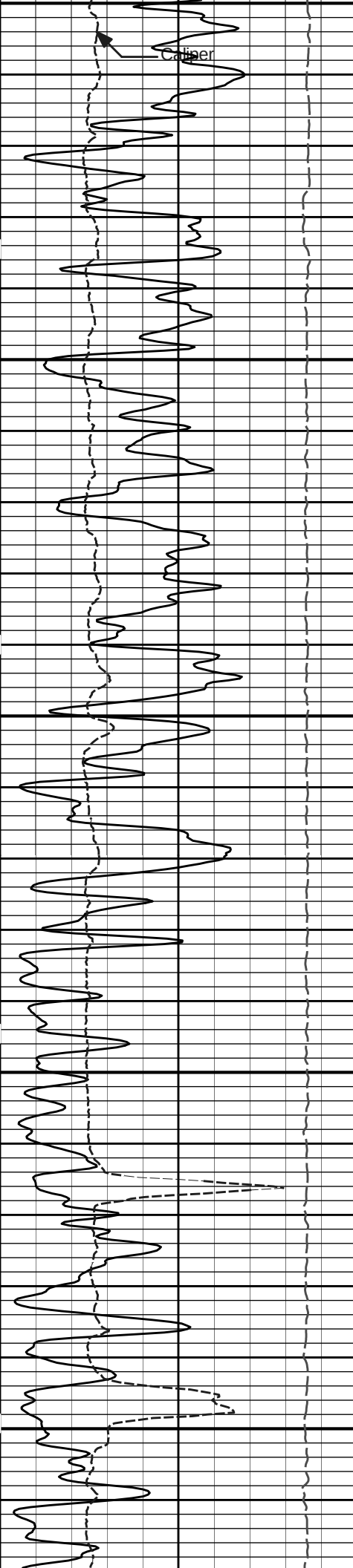


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2200

2300

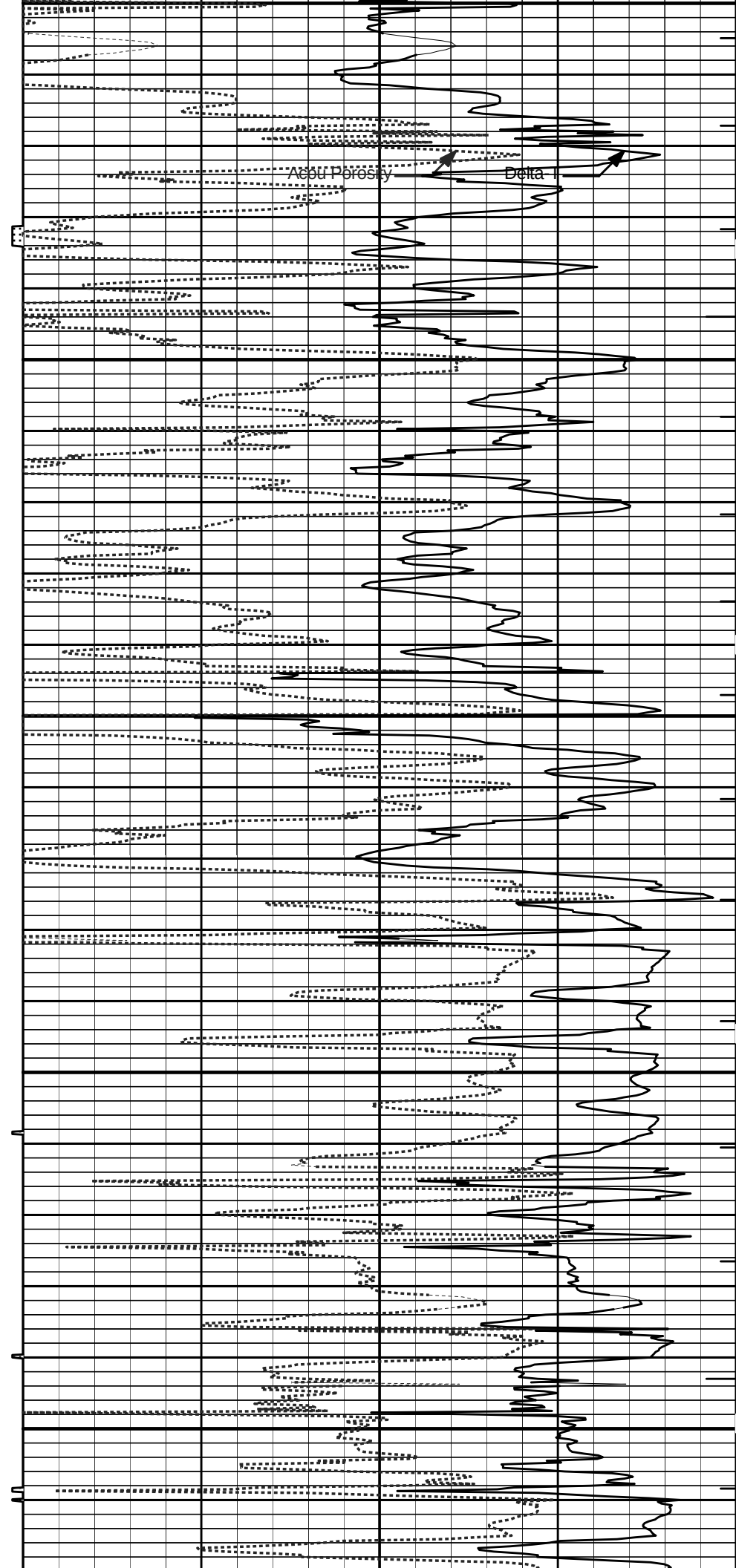


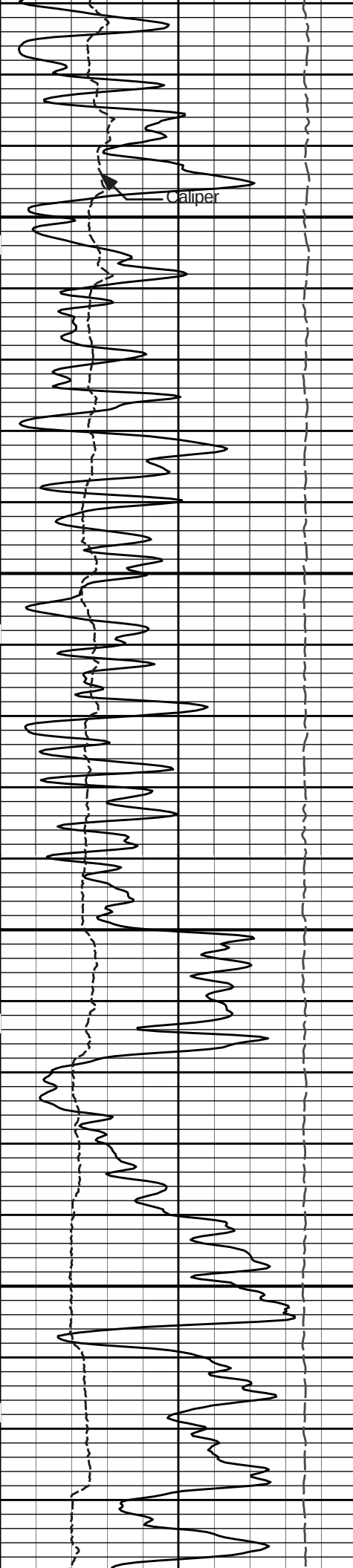


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2400

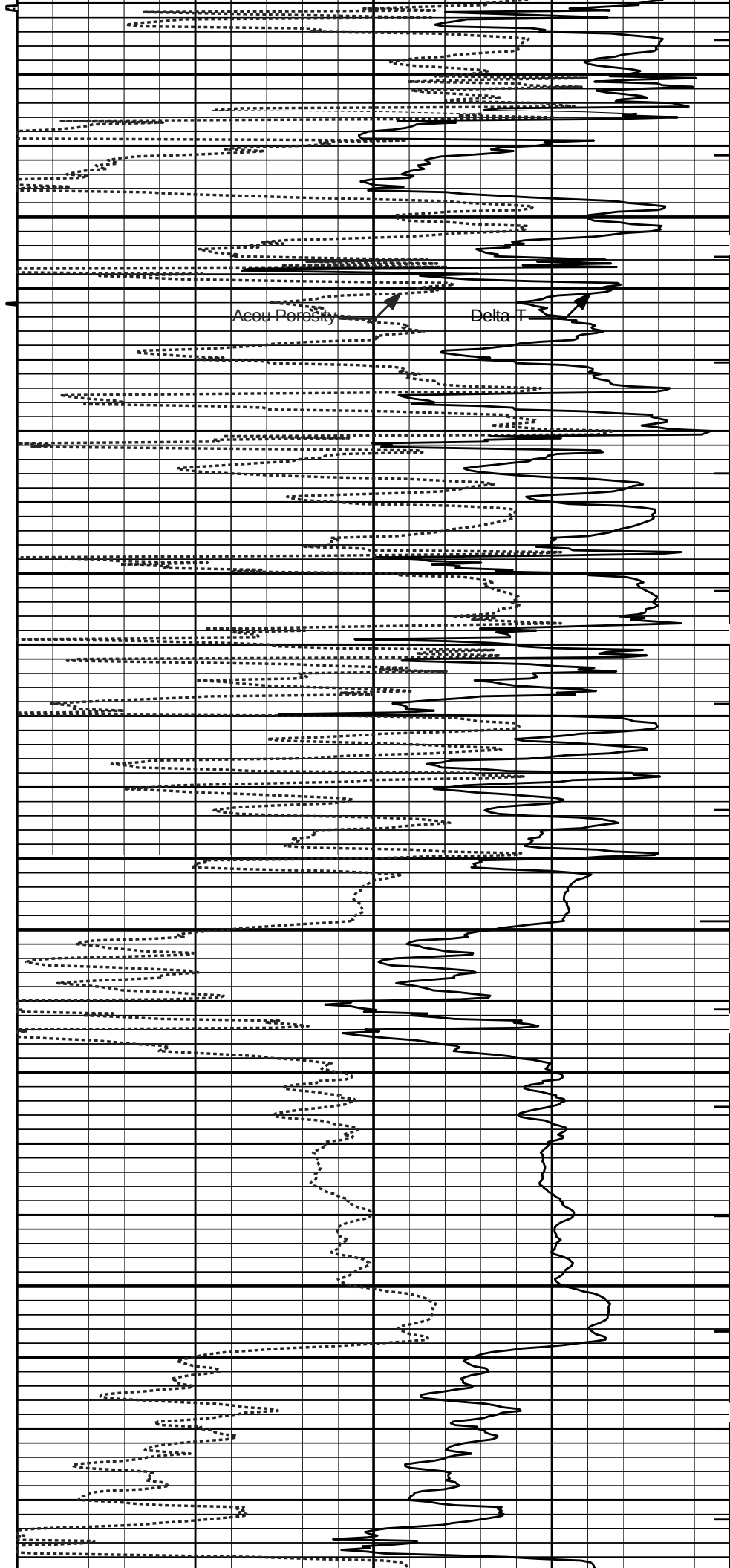
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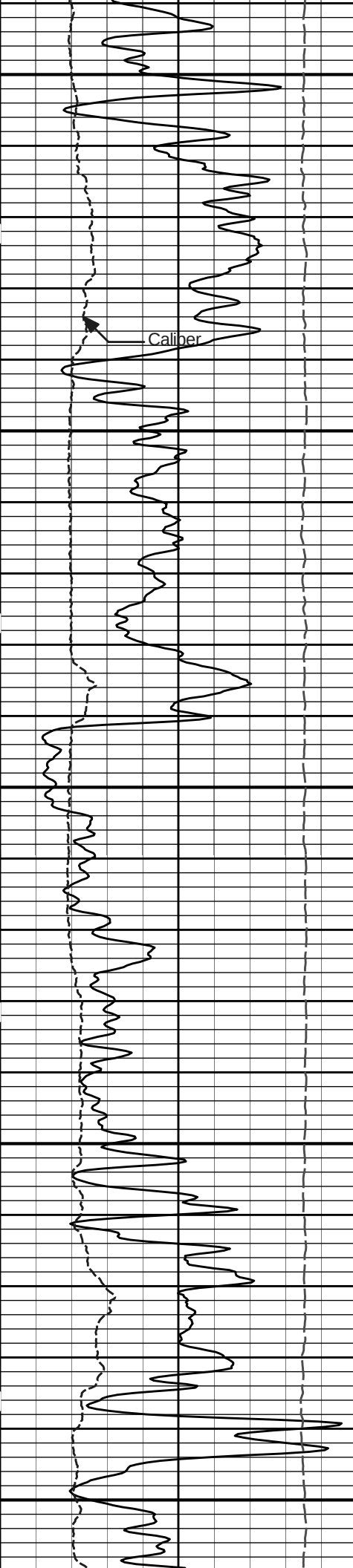




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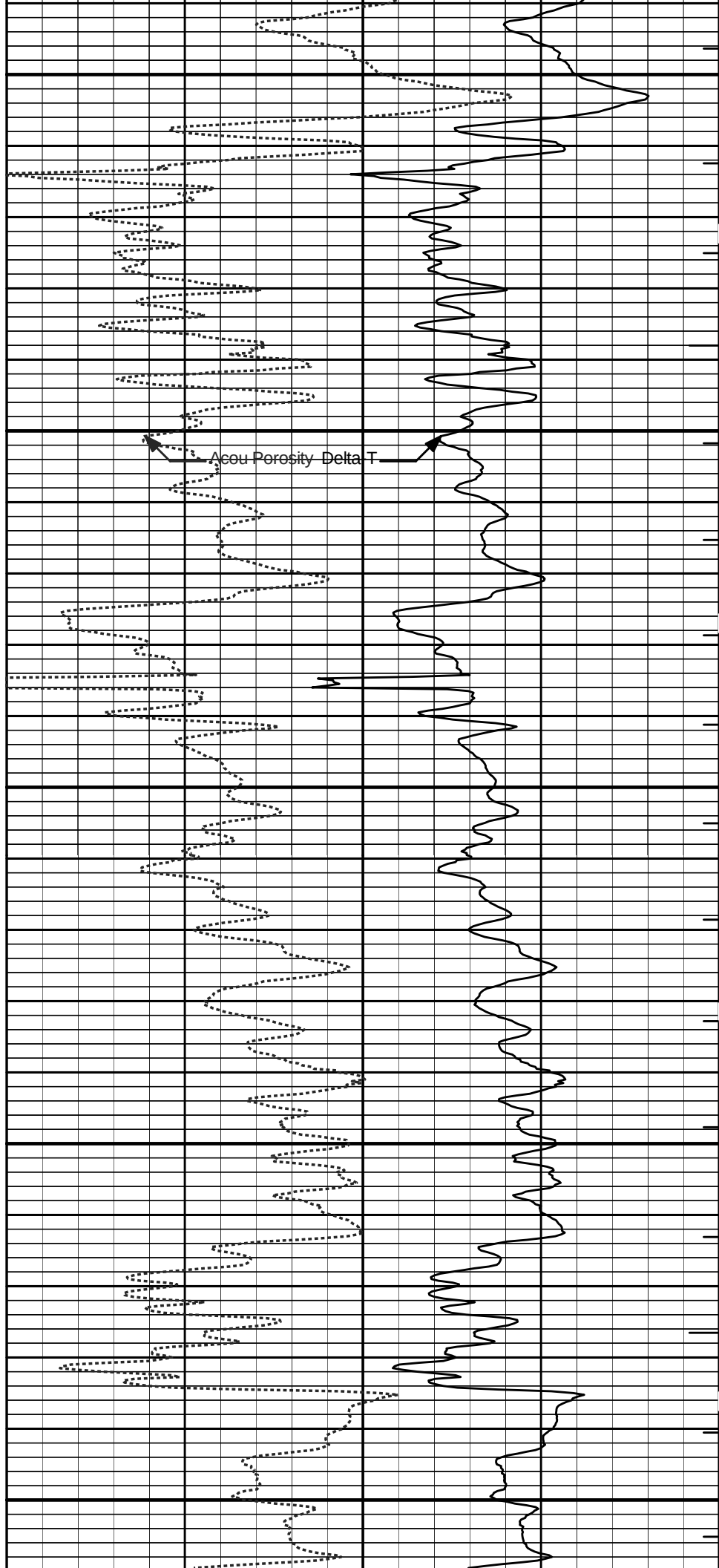
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2800

2900

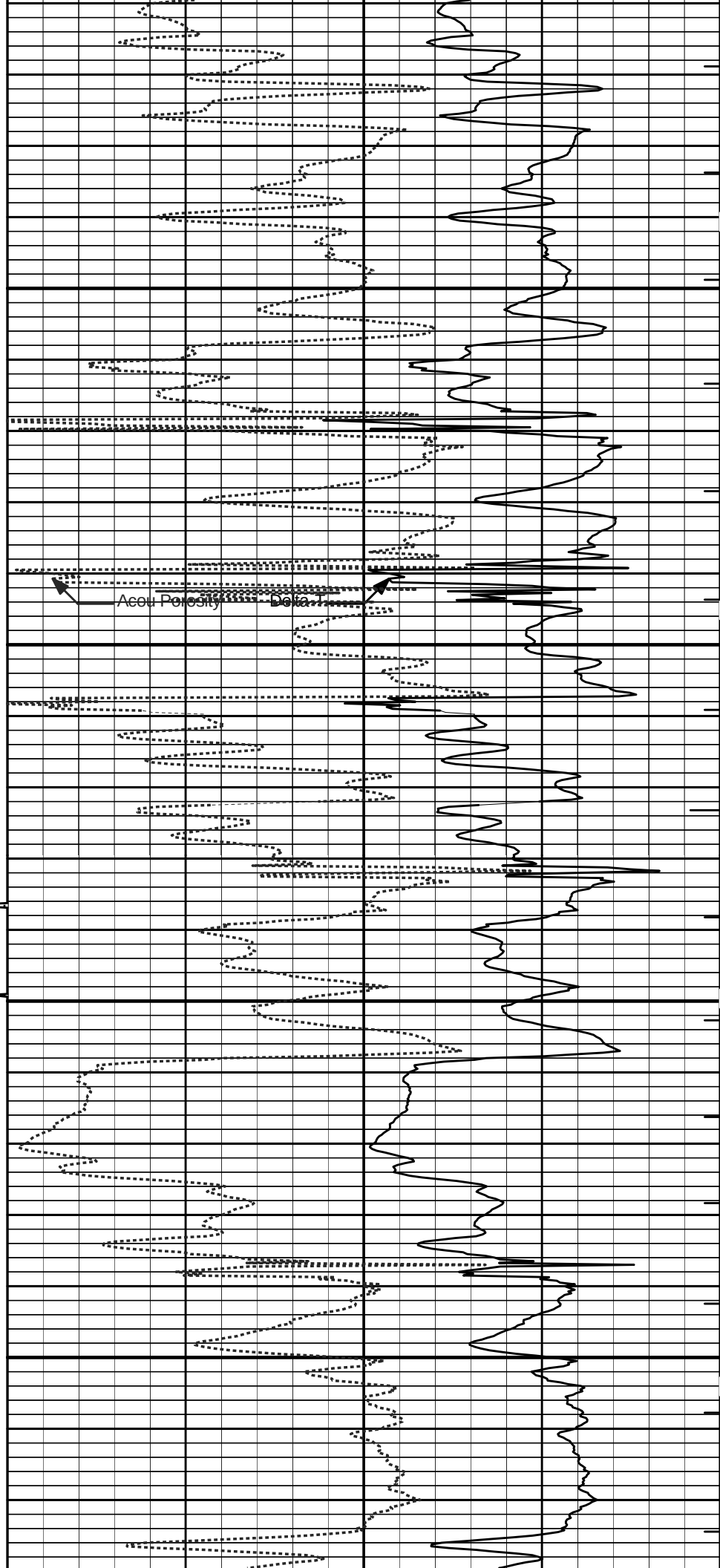


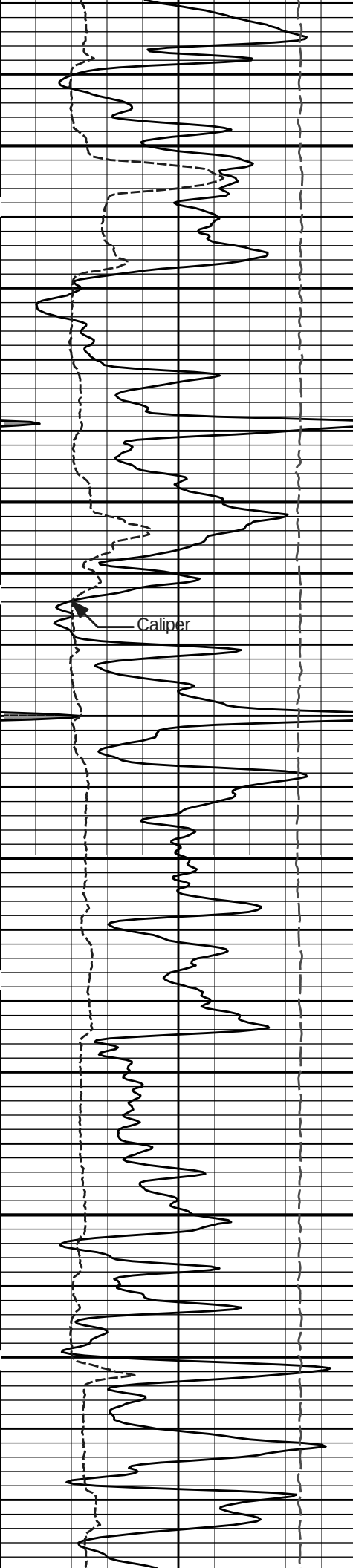




3000

3100



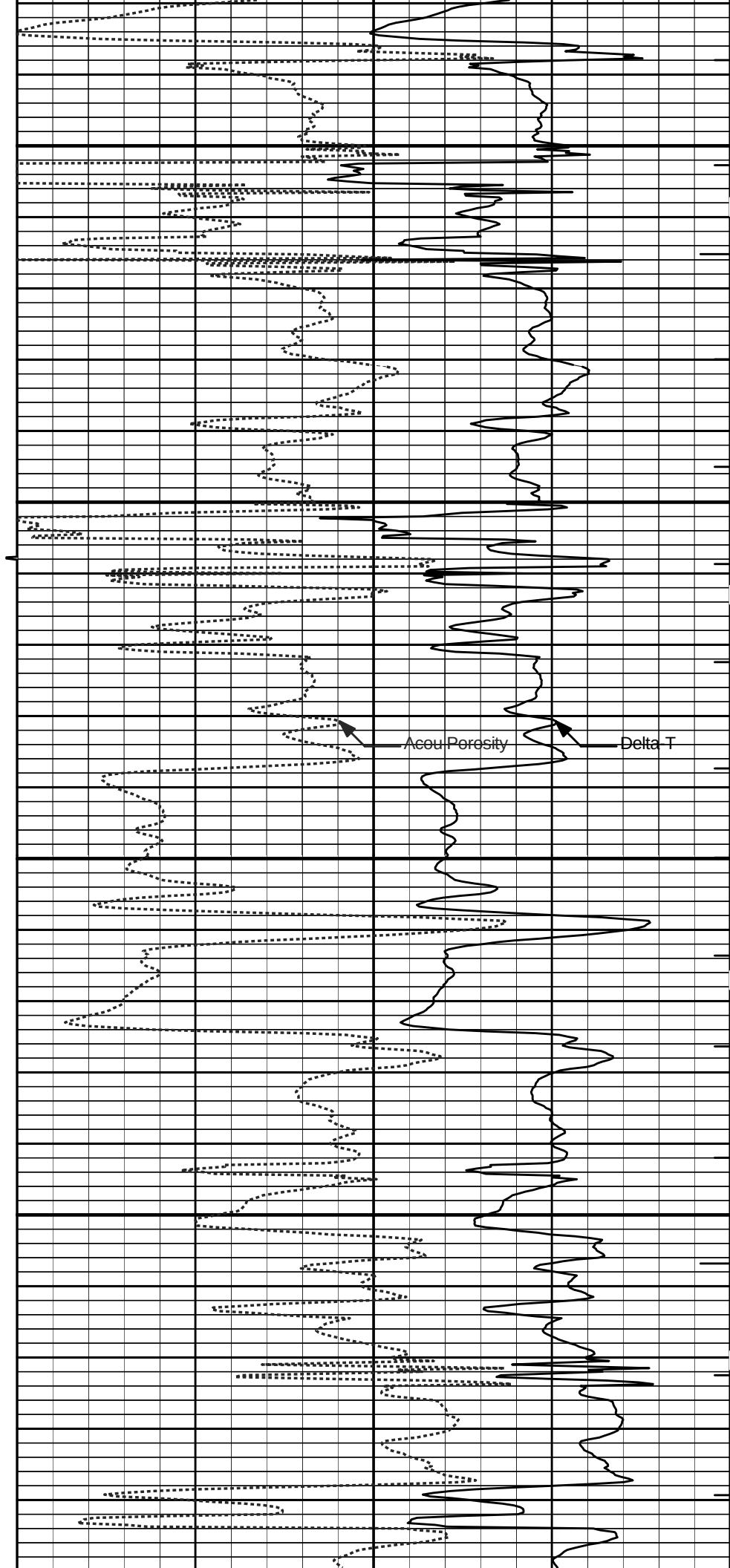


3200

Caliper

3300

3400



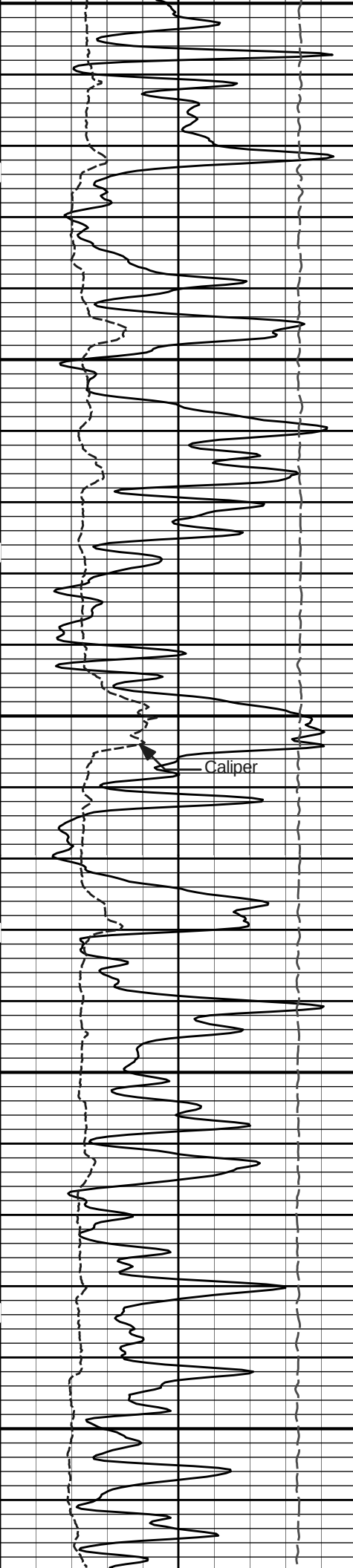
Acoustic Porosity

Delta T

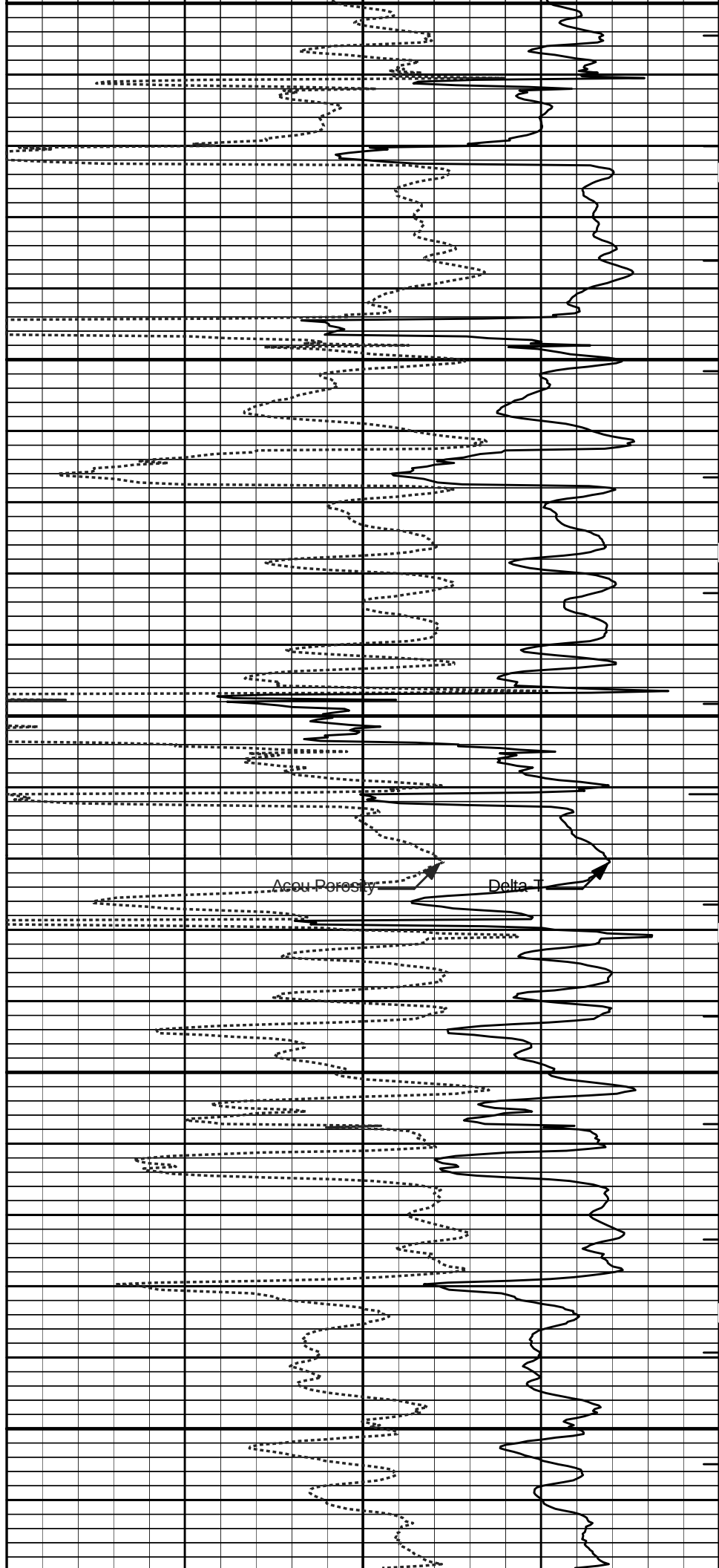
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3500

3600

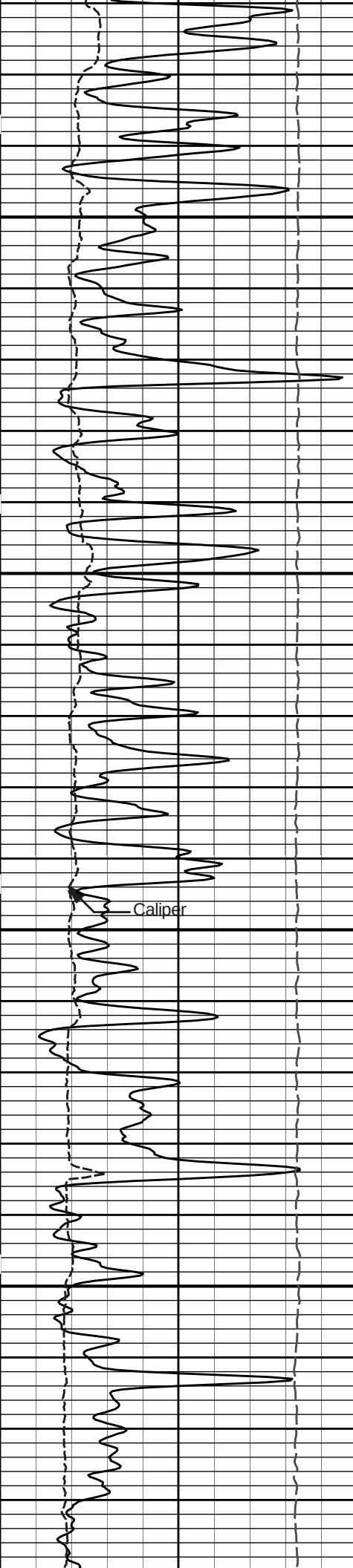


Caliper



Acoustic Porosity

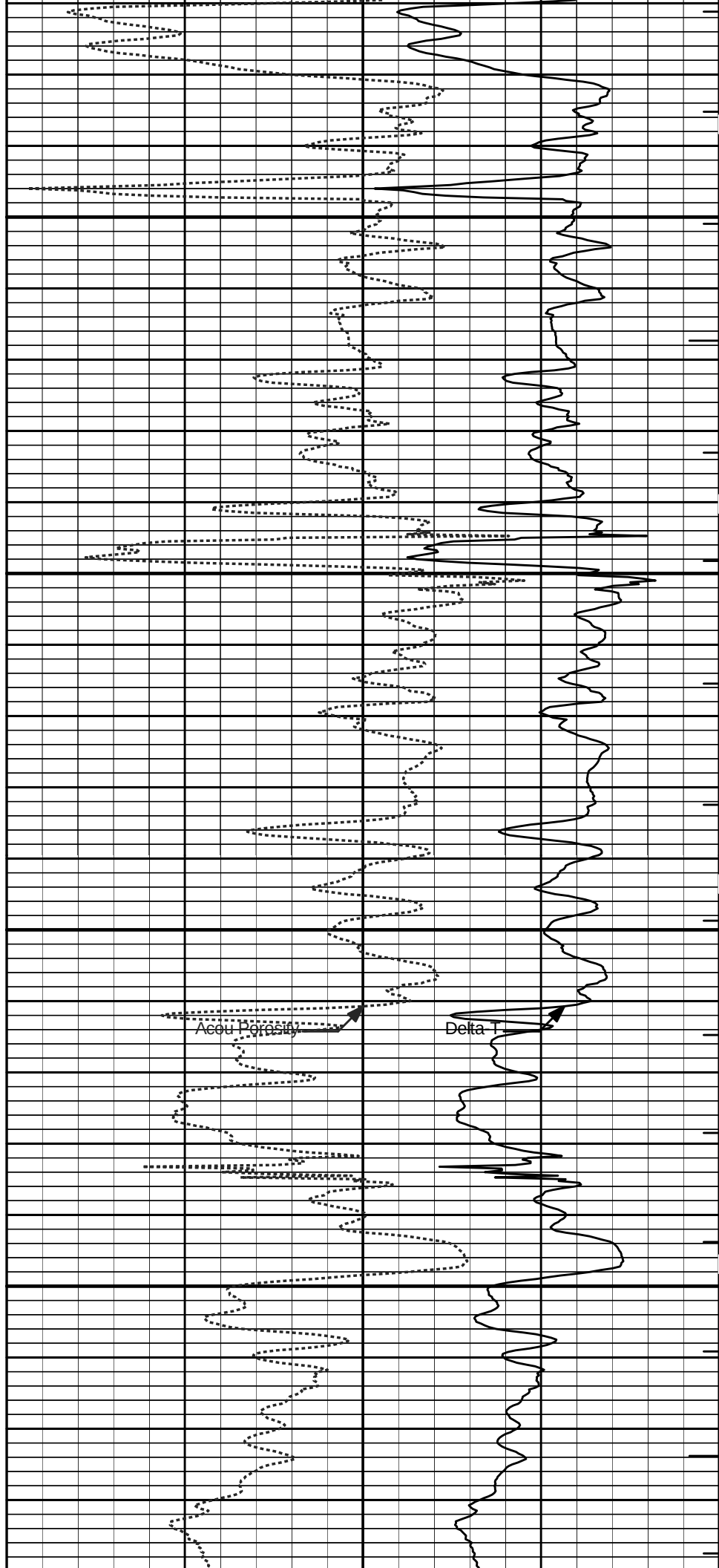
Delta T



Caliper

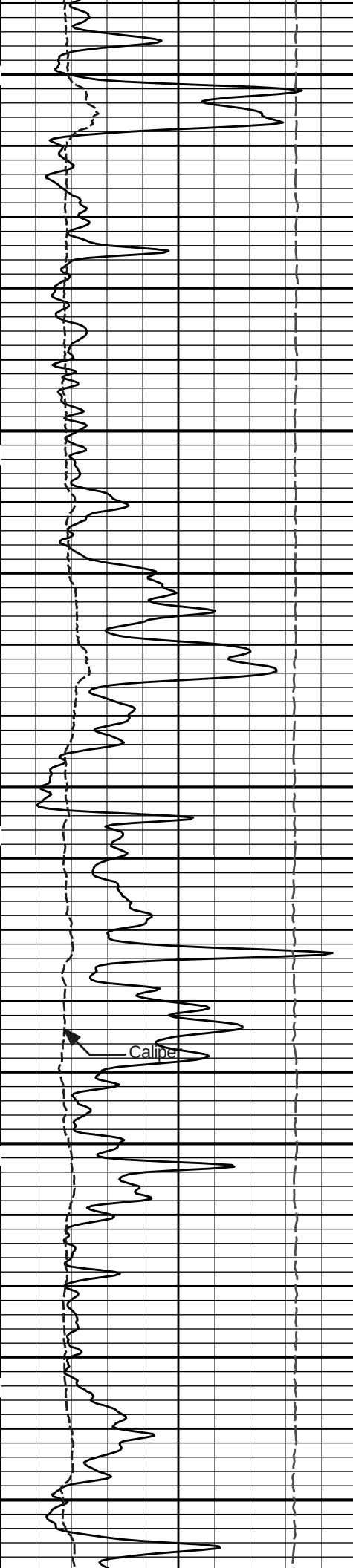
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3800



Acou Porosity

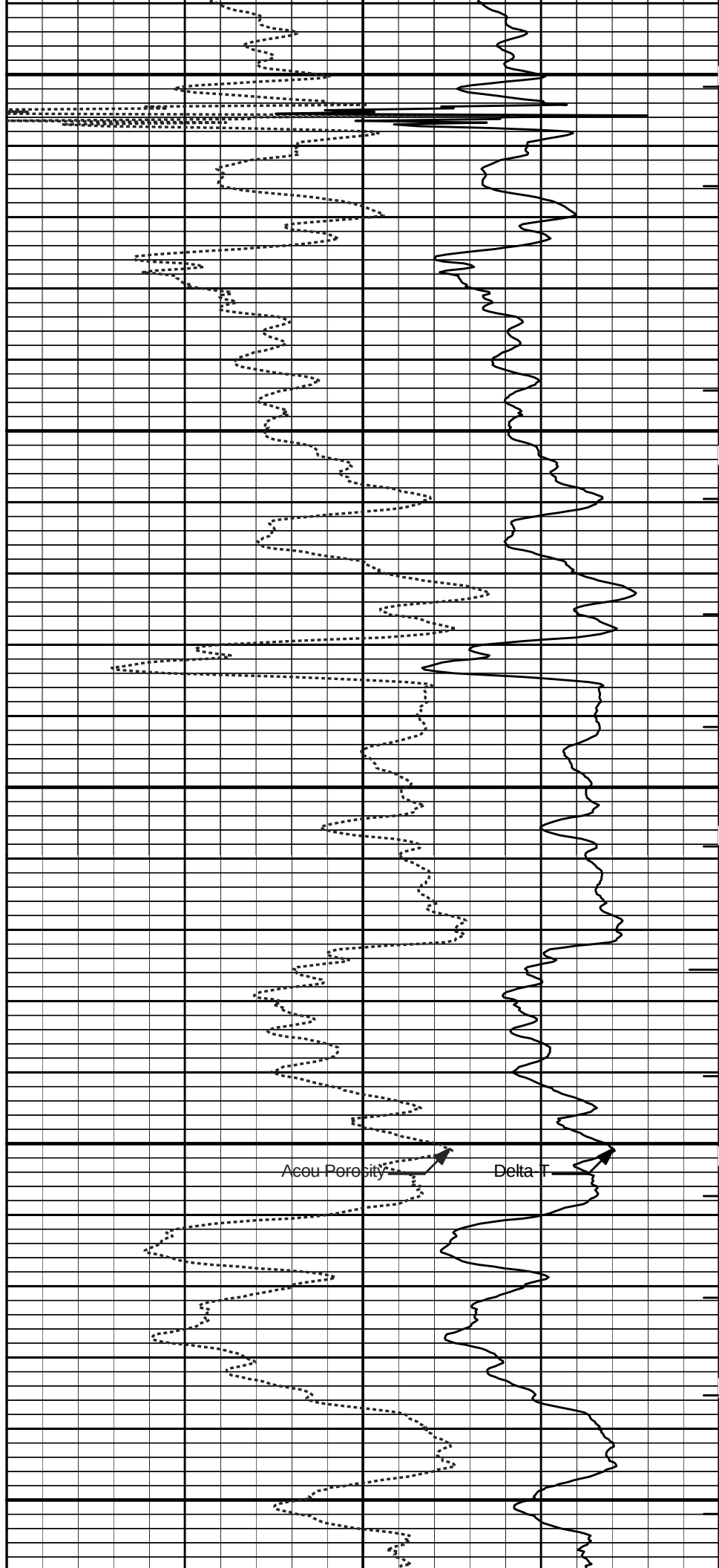
Delta T



3900

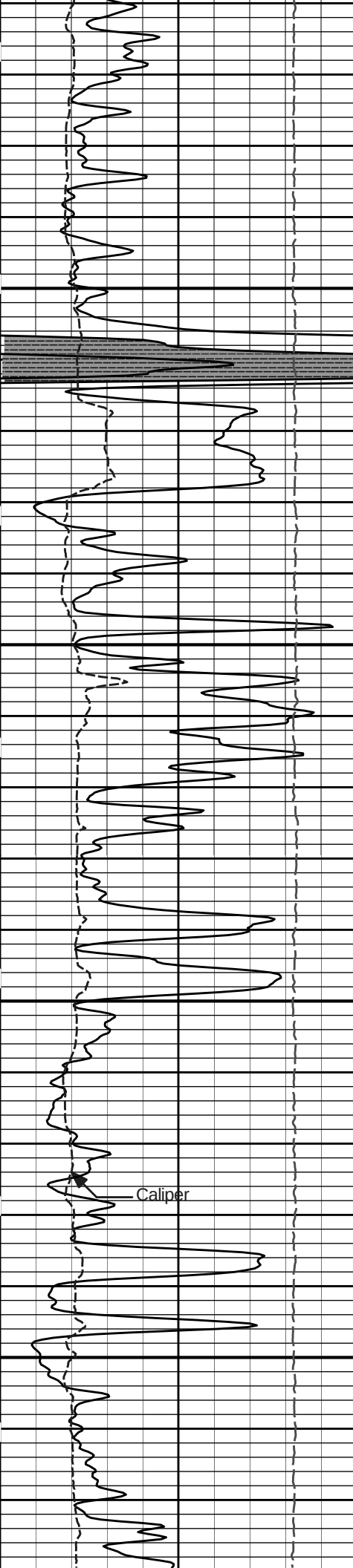
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Caliper



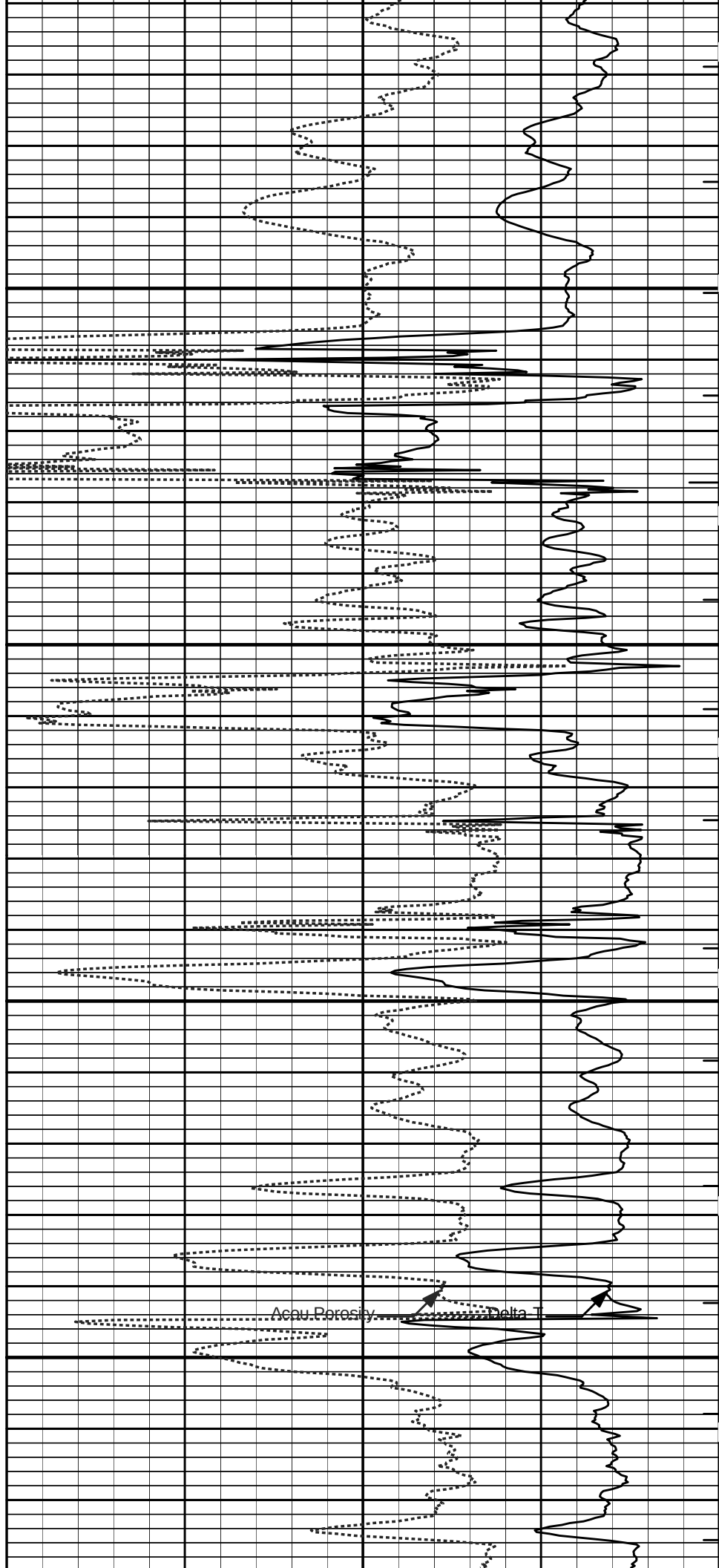
Acou Porosity

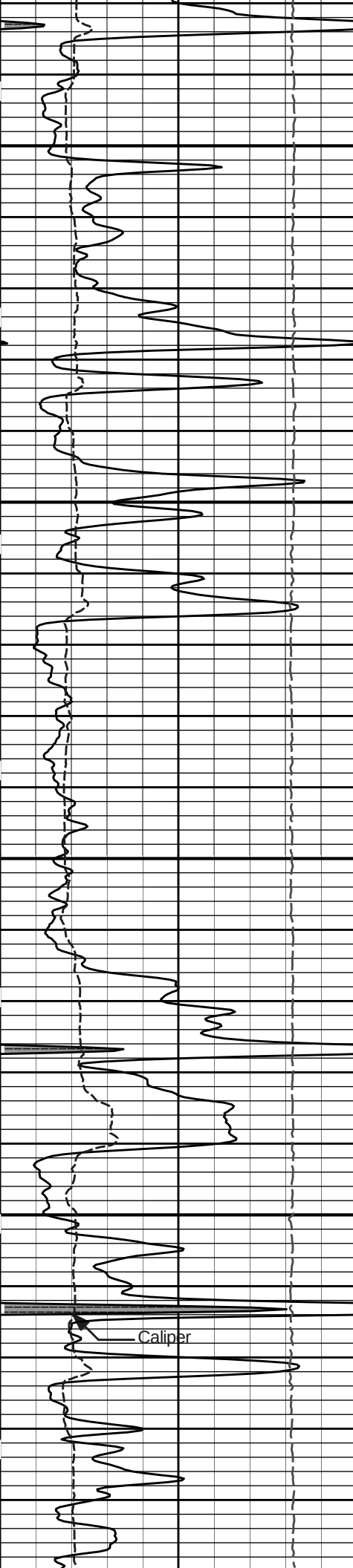
Delta T



4100

4200

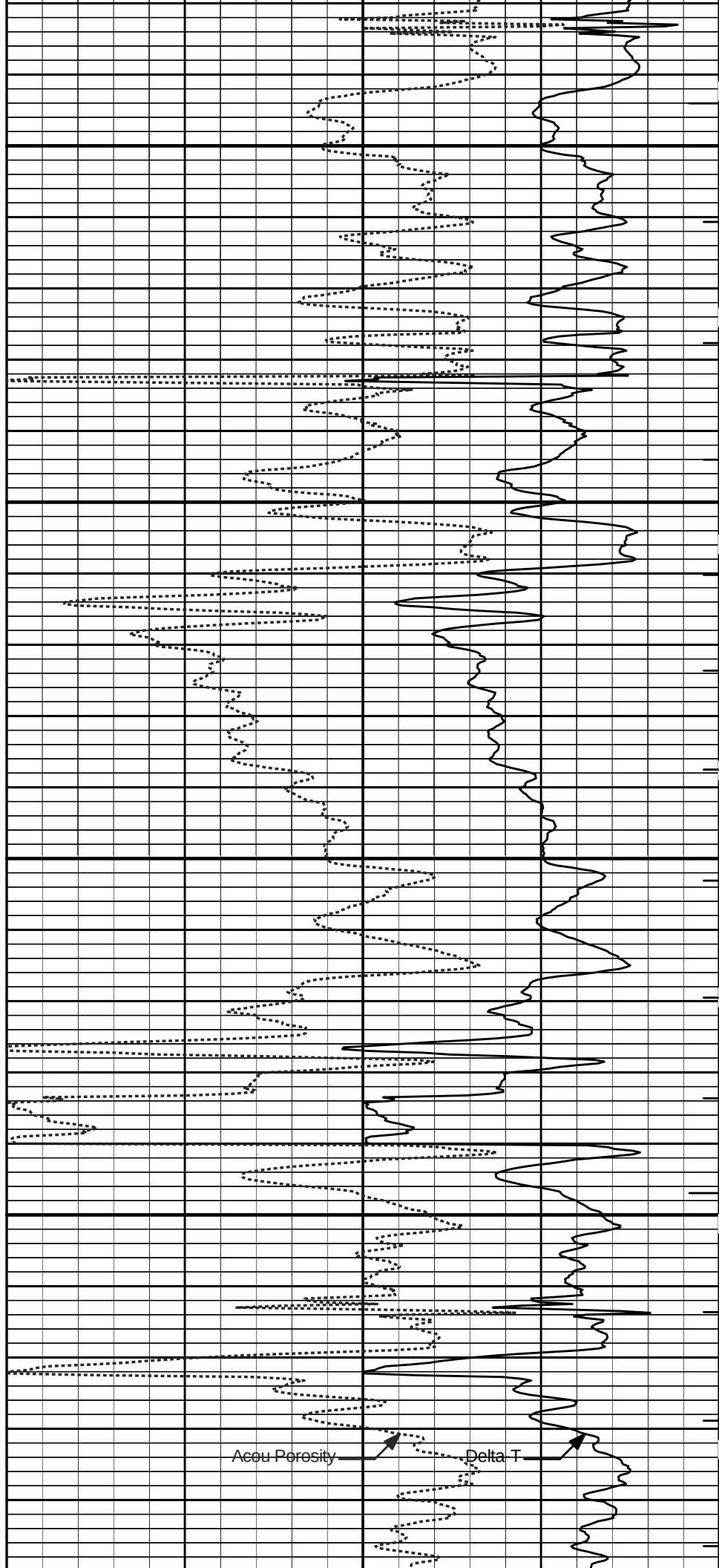


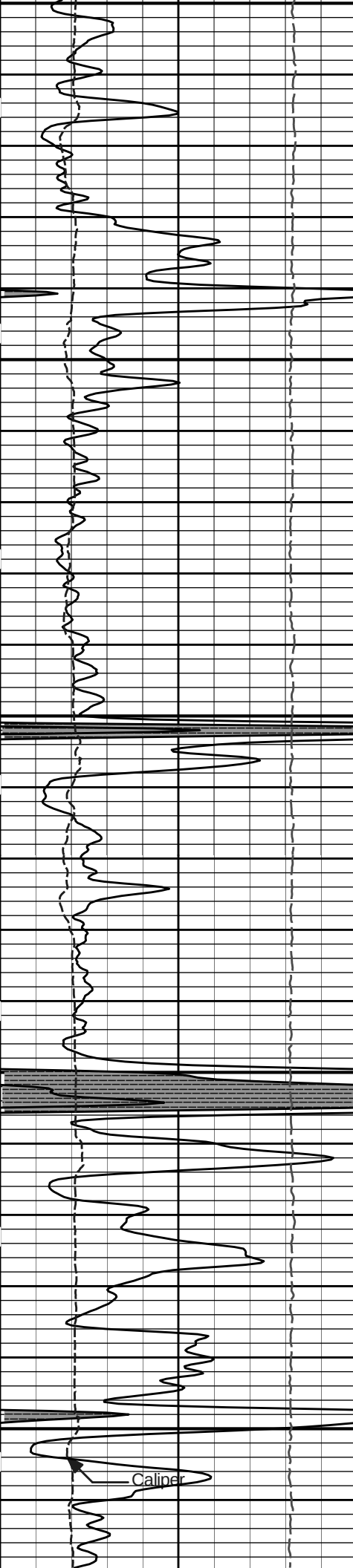


4300

4400

4500

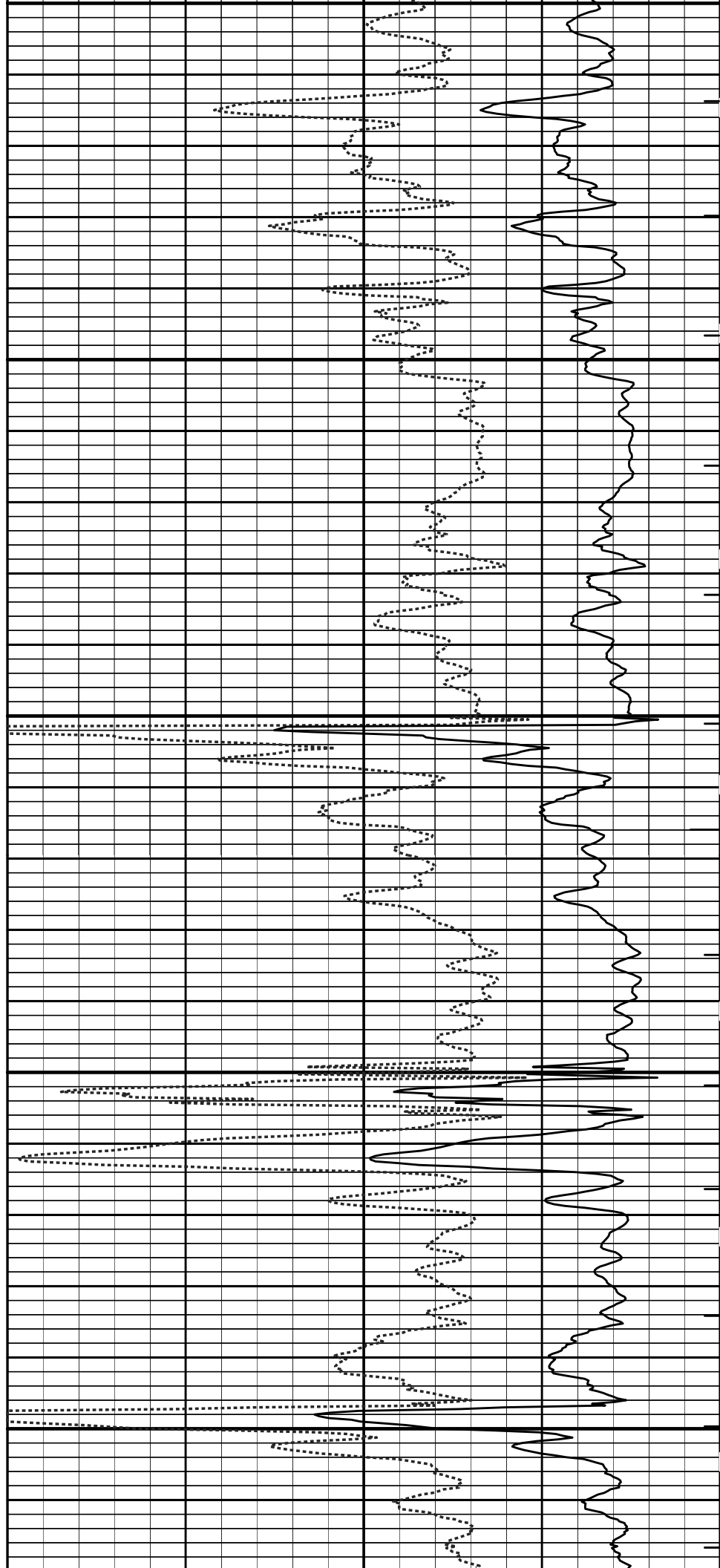




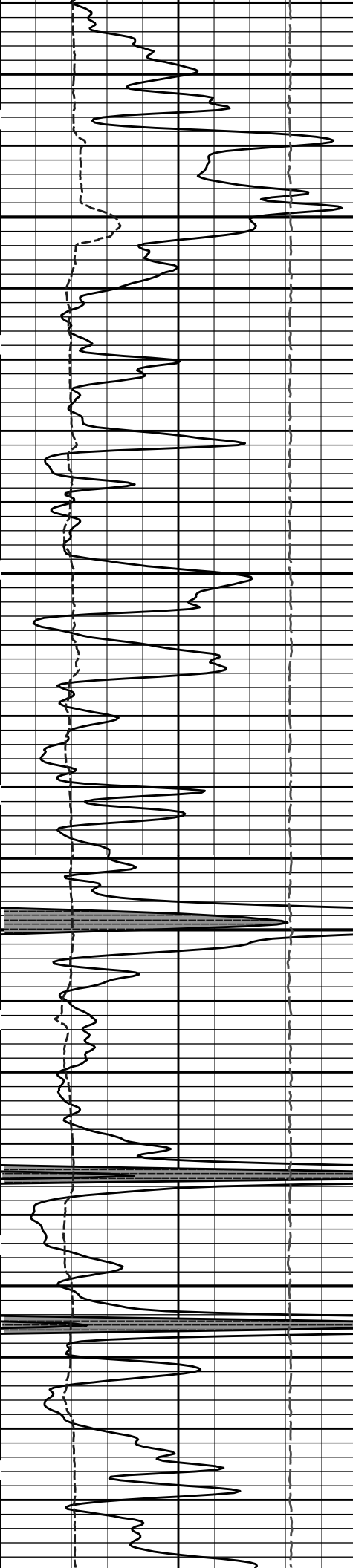
4500

4600

4700

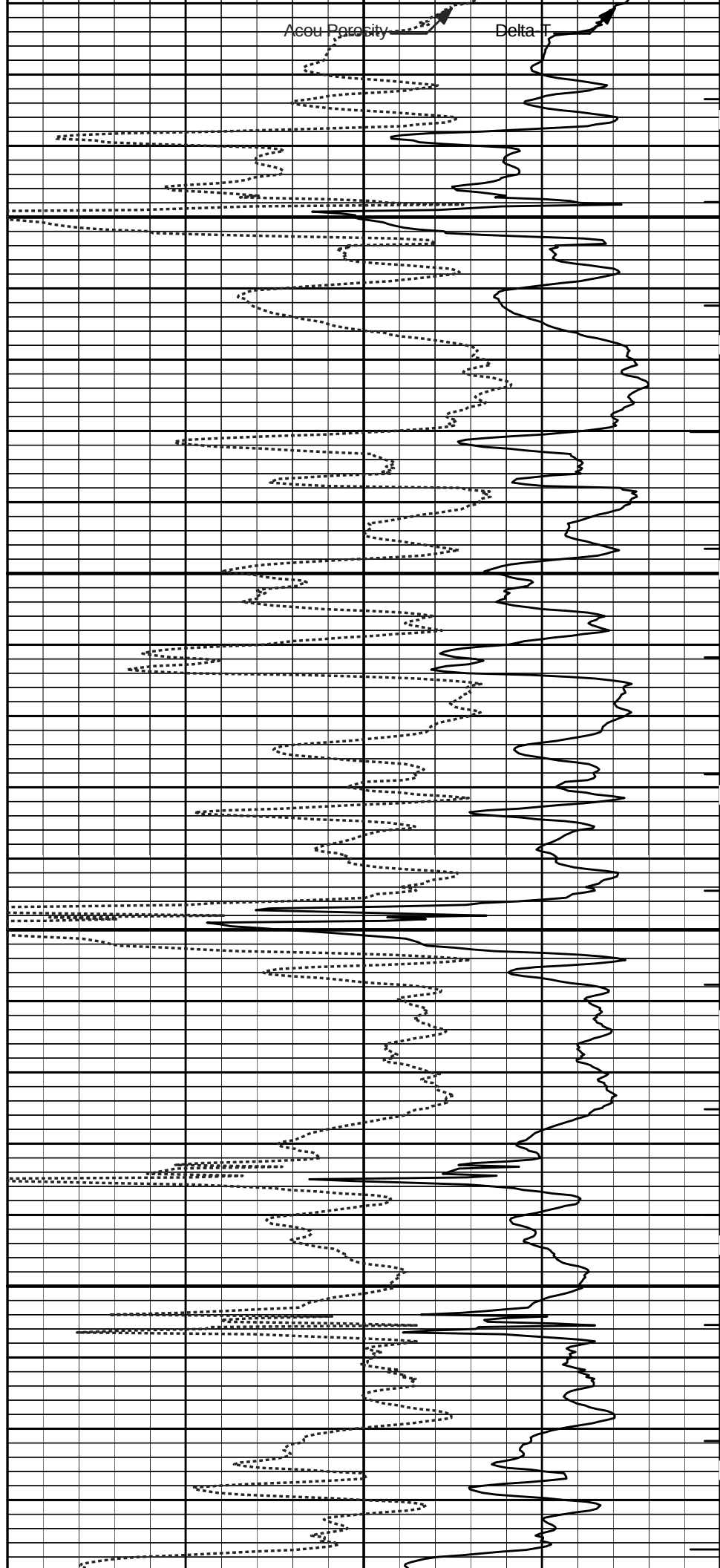


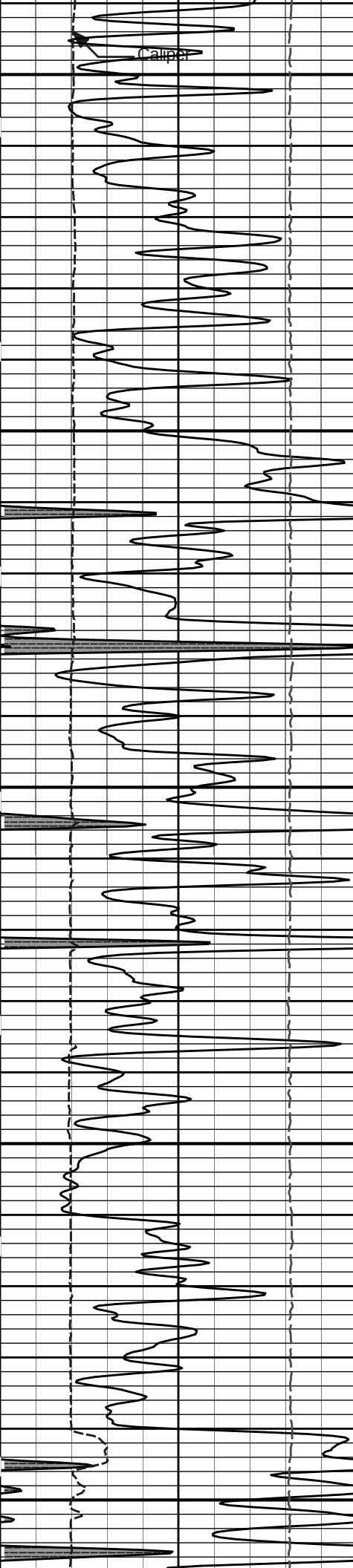




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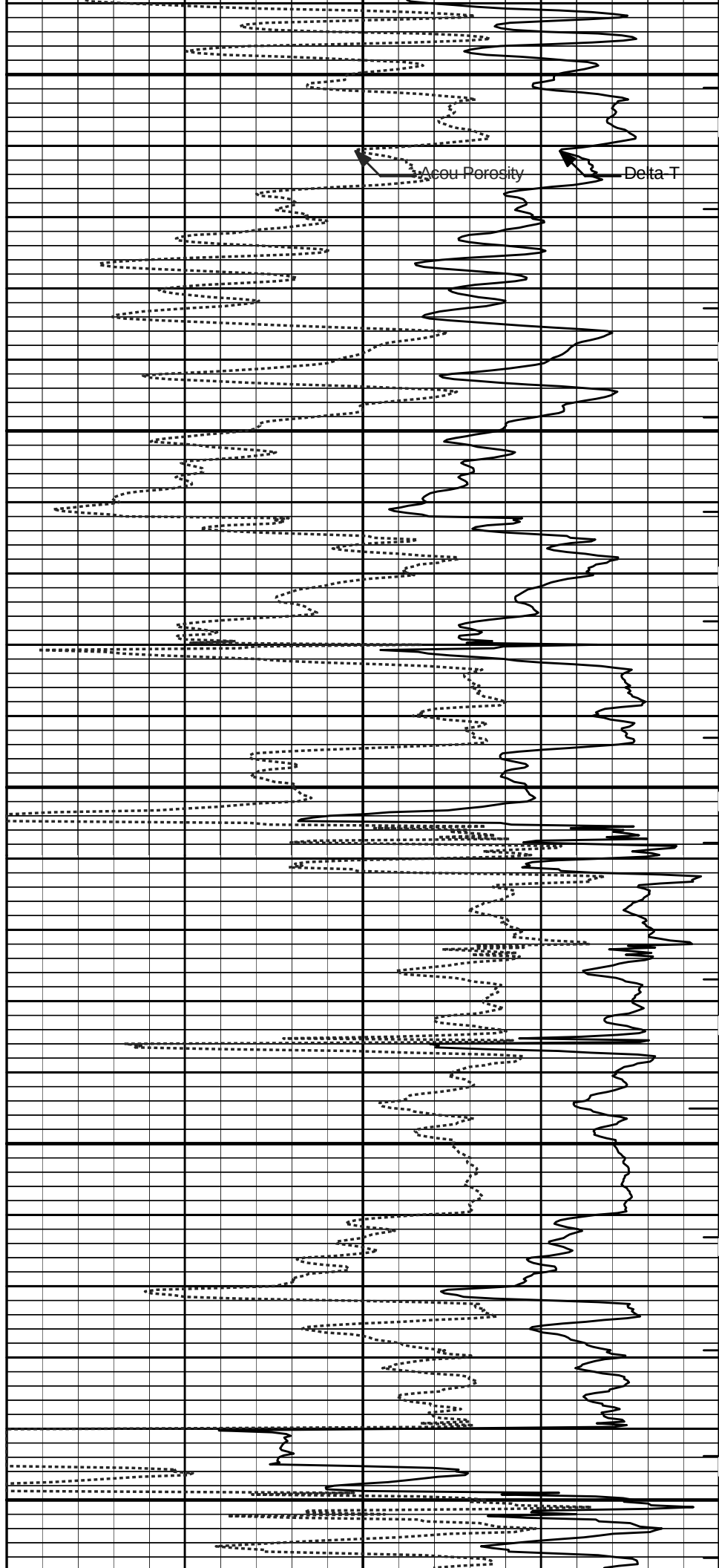
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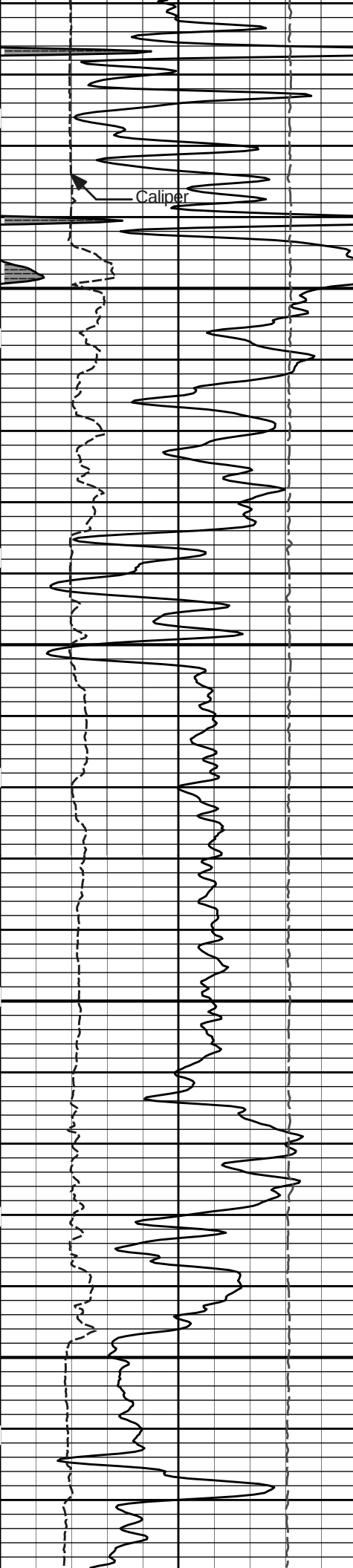




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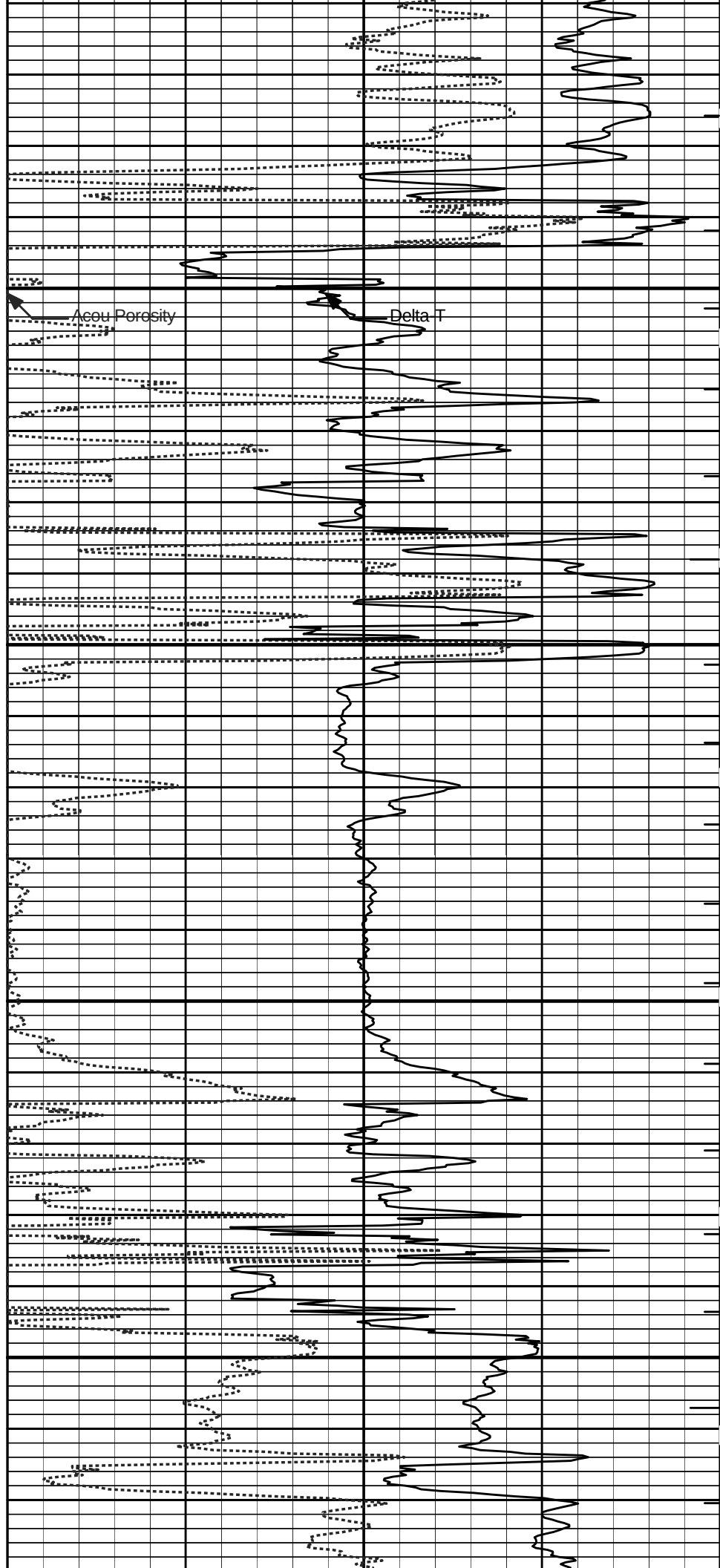
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5200

5300

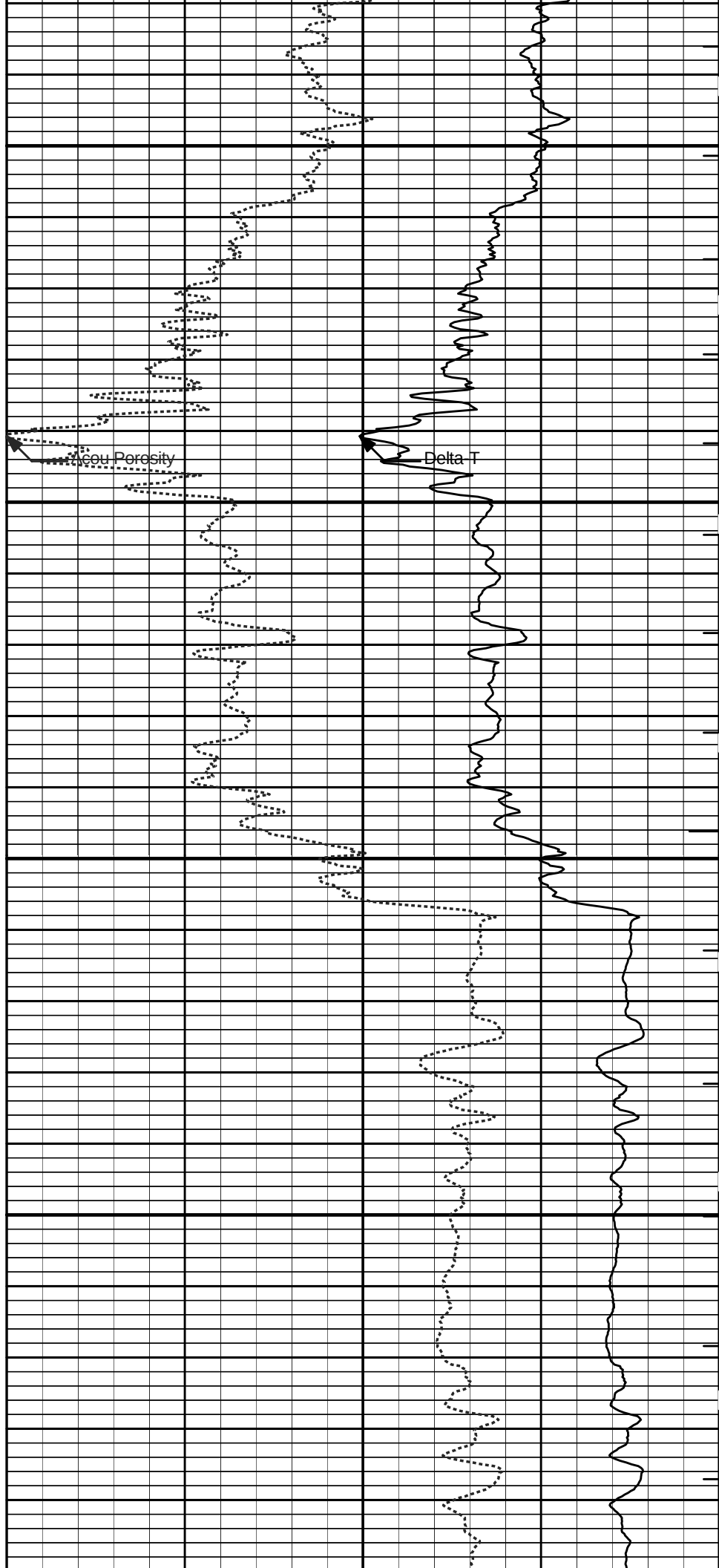


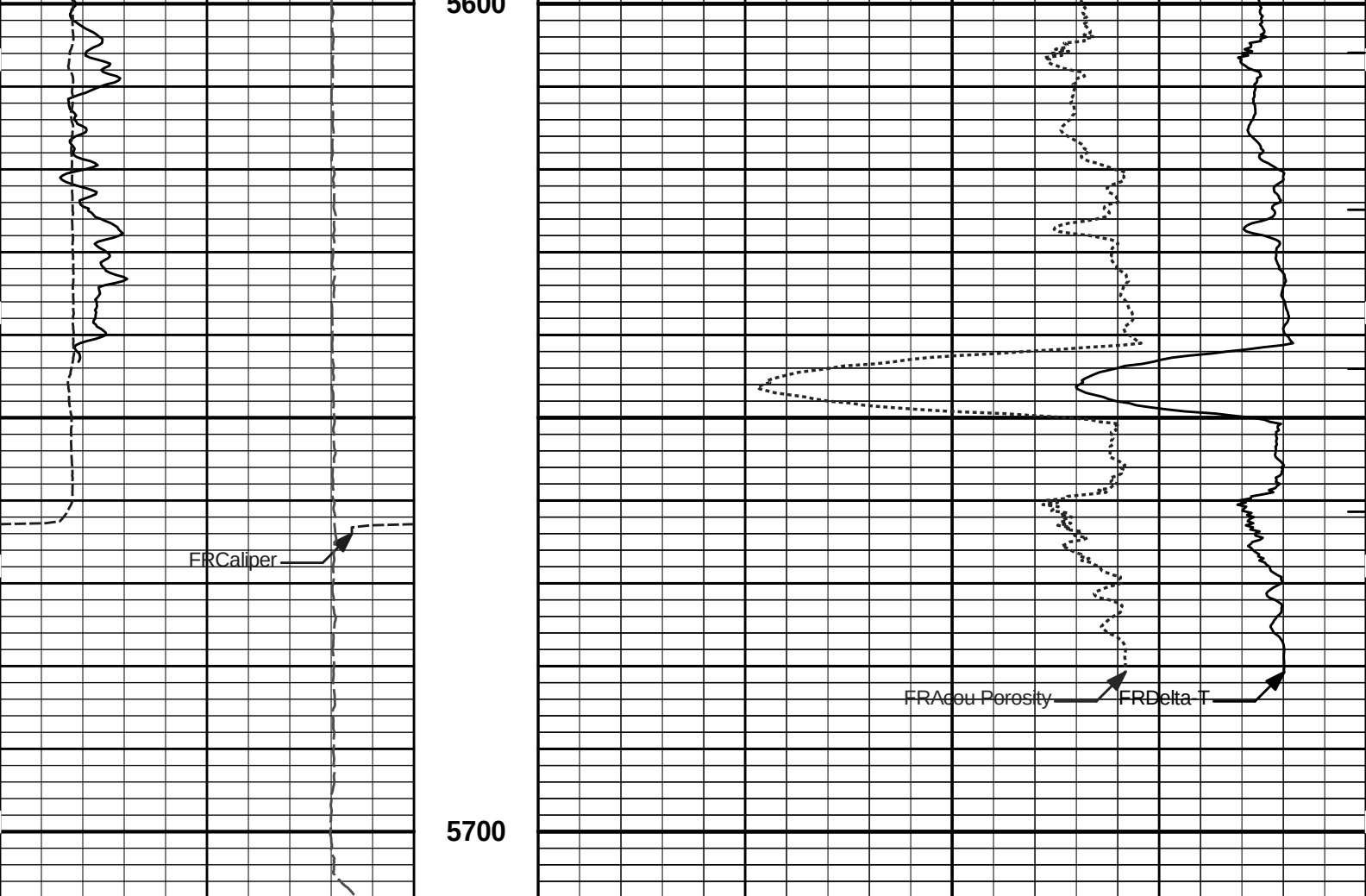


5400

5500

5600





|       |           |     |              |         |       |                 |
|-------|-----------|-----|--------------|---------|-------|-----------------|
| 15K   | Tens      | 0   | MD           | 1 : 240 | ft    | ITTT            |
| 6     | Caliper   | 16  | Tension Pull | 10      | 0 140 | Delta-T         |
|       | inches    |     |              |         |       | microsec per ft |
| 0     | Gamma API | 150 | Tension Pull | 30      |       | Acou Porosity   |
|       | api       |     |              |         |       | percent         |
| SHALE |           |     |              |         |       |                 |

HALLIBURTON

Plot Time: 10-Sep-13 07:59:07  
Plot Range: 1590 ft to 5708.25 ft  
Data: MOSBARGER\_B-2\Well Based\CASING\  
Plot File: \\BSAT\BSAT\_5\_MAIN\_LIB

5 INCH MAIN LOG

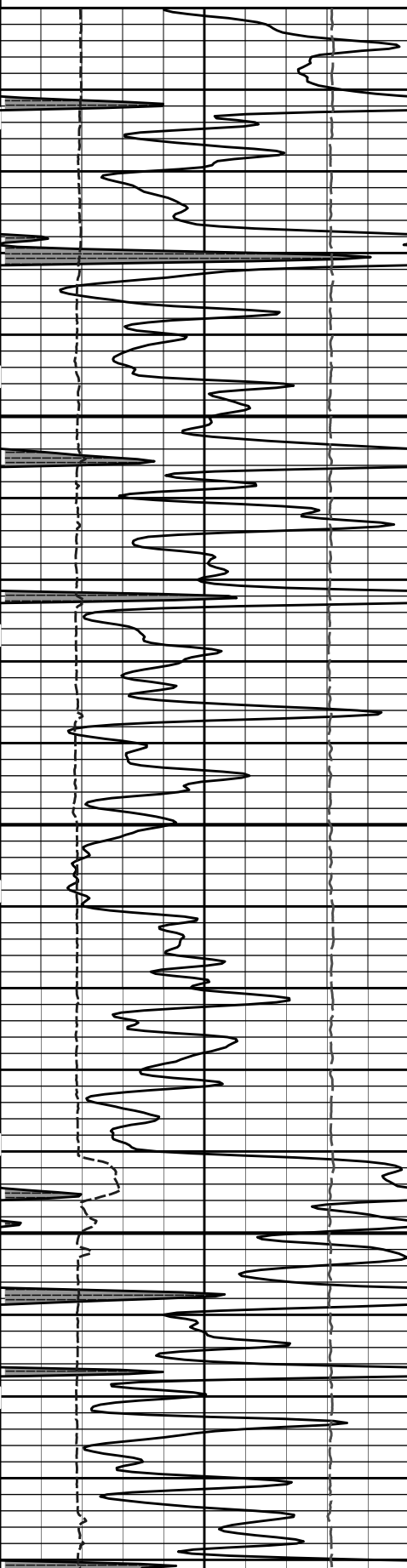
HALLIBURTON

Plot Time: 10-Sep-13 07:59:07  
Plot Range: 5000 ft to 5708.42 ft  
Data: MOSBARGER\_B-2\Well Based\REPEAT\  
Plot File: \\BSAT\BSAT\_5\_REP\_LIB

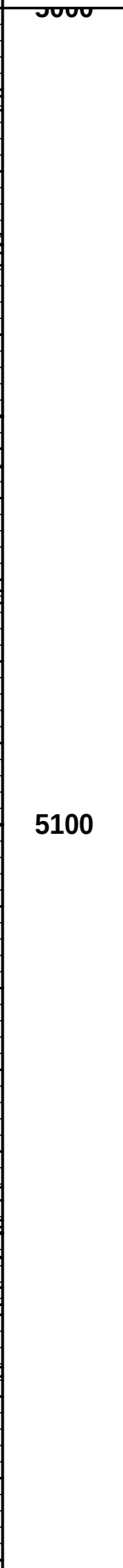
REPEAT SECTION

|       |
|-------|
| SHALE |
|-------|

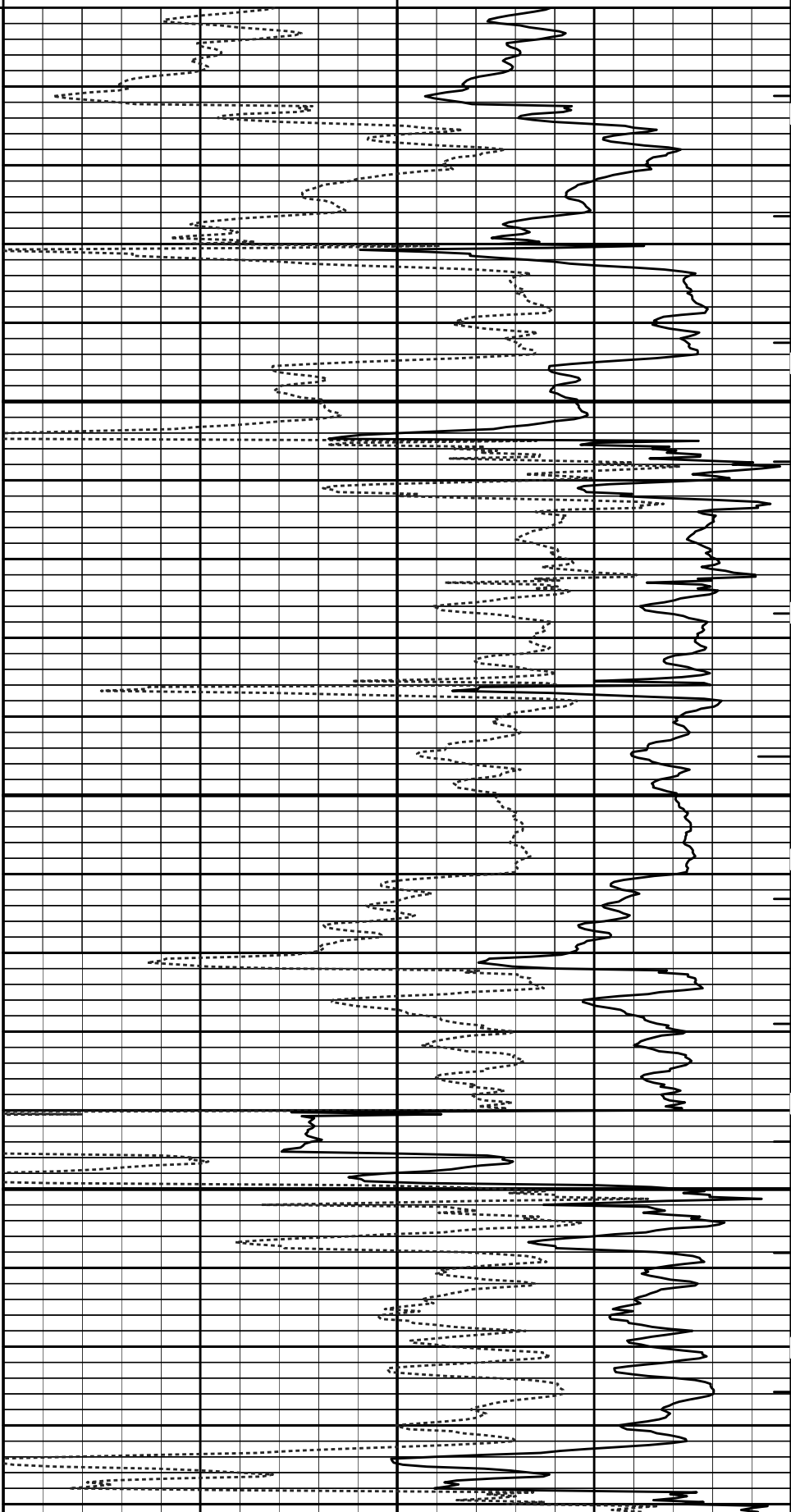
|     |           |     |
|-----|-----------|-----|
| 0   | Gamma API | 150 |
|     | api       |     |
| 6   | Caliper   | 16  |
|     | inches    |     |
| 15K | Tension   | 0   |
|     | pounds    |     |



|                     |
|---------------------|
| MD<br>1 : 240<br>ft |
|---------------------|

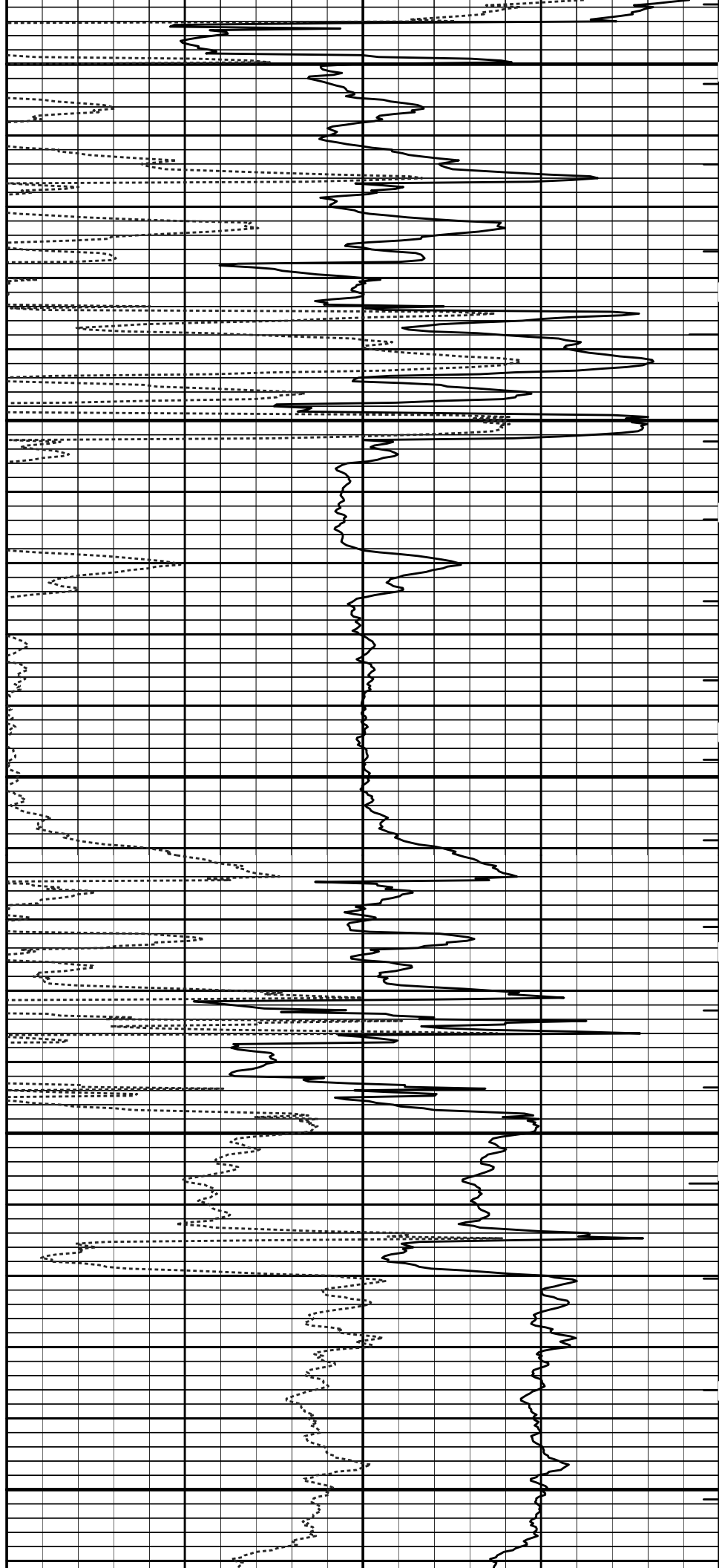


|     |                 |     |
|-----|-----------------|-----|
| 30  | Acou Porosity   | -10 |
|     | percent         |     |
| 140 | Delta-T         | 40  |
|     | microsec per ft |     |
|     | ITT             |     |



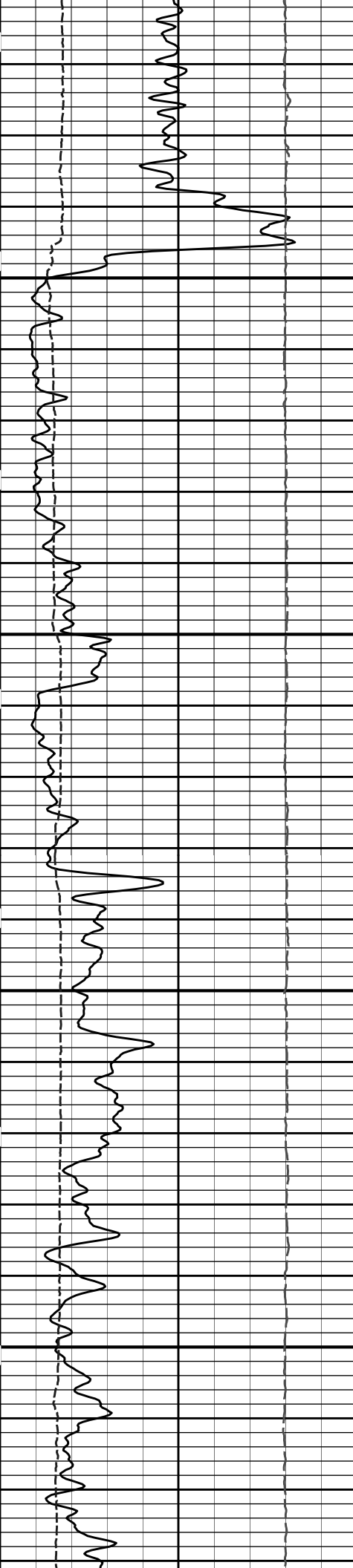


5200



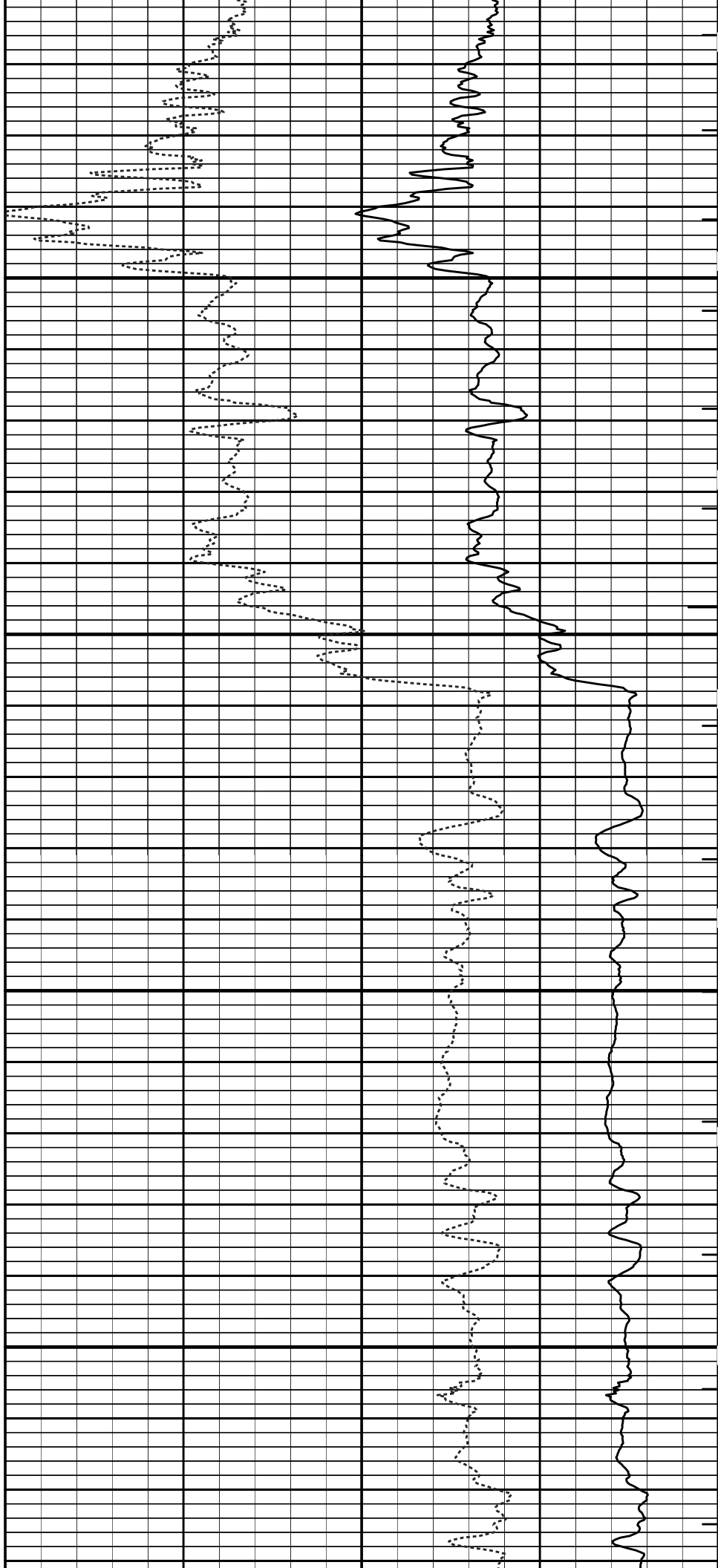
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5400

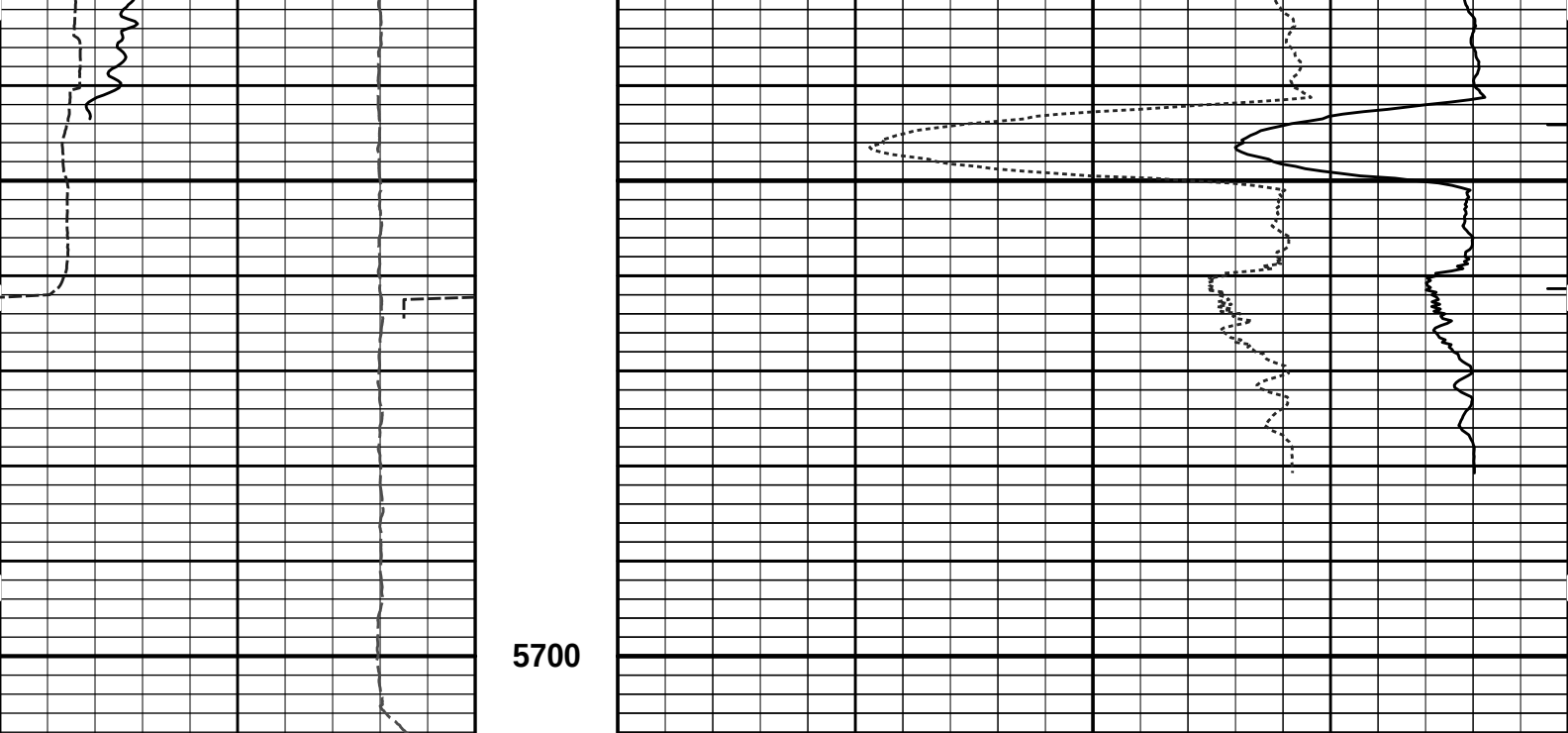


5500

5600







5700

|     |           |     |         |     |                 |
|-----|-----------|-----|---------|-----|-----------------|
| 15K | Tension   | 0   | MD      |     |                 |
|     | pounds    |     | 1 : 240 |     | ITTT            |
| 6   | Caliper   | 16  |         | 140 | Delta-T         |
|     | inches    |     |         |     | microsec per ft |
| 0   | Gamma API | 150 |         | 30  | Acou Porosity   |
|     | api       |     |         |     | percent         |
|     | SHALE     |     |         |     |                 |

HALLIBURTON

Plot Time: 10-Sep-13 07:59:09  
 Plot Range: 5000 ft to 5708.42 ft  
 Data: MOSBARGER\_B-2\Well Based\REPEAT\  
 Plot File: \\BSAT\BSAT\_5\_REP\_LIB

# REPEAT SECTION

HALLIBURTON

## TOOL STRING DIAGRAM REPORT

| Description                  | Overbody Description | O.D.         | Diagram | Sensors @ Delays                                      | Length  | Accumulated Length |
|------------------------------|----------------------|--------------|---------|-------------------------------------------------------|---------|--------------------|
| RWCH-12156658<br>135.00 lbs  |                      | Ø 3.625 in → |         | ← Load Cell @ 76.35 ft<br>← BH Temperature @ 75.79 ft | 6.25 ft | 80.04 ft           |
| SP Sub-11441455<br>60.00 lbs |                      | Ø 3.625 in → |         | ← SP @ 72.01 ft                                       | 3.74 ft | 73.79 ft           |
|                              |                      |              |         |                                                       |         | 70.05 ft           |

GTET-11048627  
165.00 lbs

Ø 3.625 in →

8.52 ft

← GammaRay @ 63.99 ft

61.53 ft

DSNT-11019643  
174.00 lbs

DSN Decentralizer-  
10755066  
6.60 lbs

Ø 5.000 in\* →

Ø 3.625 in →

9.69 ft

← DSN Far @ 54.59 ft  
← DSN Near @ 53.84 ft

51.84 ft

SDLT-10950489  
360.00 lbs

SDLT Pad-10844781  
65.00 lbs  
Microlog Pad-10950489  
8.00 lbs

Ø 4.500 in →

Ø 4.750 in\* →

Ø 4.750 in\* →

10.81 ft

Microlog @ 44.03 ft  
SDL Caliper @ 43.84 ft  
SDL @ 43.83 ft

41.03 ft

IQ Flex-00000696  
140.00 lbs

Ø 3.625 in →

5.67 ft

35.36 ft

Centralizer 25-00000027  
8.00 lbs

Ø 4.000 in\* →

BSAT-10747683  
300.00 lbs

Ø 3.625 in →

15.77 ft

← Sonic Receivers @ 26.84 ft

19.58 ft

ACRt Instrument-  
11055059  
50.00 lbs

Centralizer 25-00000029  
8.00 lbs

Ø 4.000 in\* →

Ø 3.625 in →

5.03 ft

14.55 ft

| ACRt Sonde-<br>11038385<br>200.00 lbs                          |                                                       | Ø 3.625 in →  | ← Mud Resistivity @ 13.19 ft |             | 14.22 ft                |                                                         |
|----------------------------------------------------------------|-------------------------------------------------------|---------------|------------------------------|-------------|-------------------------|---------------------------------------------------------|
| Bull Nose-00000029<br>5.00 lbs                                 |                                                       | Ø 2.750 in →  | ← ACRt @ 9.21 ft             |             | 0.33 ft                 |                                                         |
|                                                                |                                                       |               |                              |             | 0.33 ft                 |                                                         |
|                                                                |                                                       |               |                              |             | 0.00 ft                 |                                                         |
| Mnemonic                                                       | Tool Name                                             | Serial Number | Weight (lbs)                 | Length (ft) | Accumulated Length (ft) | Max.Log. Speed (fpm)                                    |
| RWCH                                                           | Releasable Wireline Cable Head                        | 12156658      | 135.00                       | 6.25        | 73.79                   | 300.00                                                  |
| SP                                                             | SP Sub                                                | 11441455      | 60.00                        | 3.74        | 70.05                   | 300.00                                                  |
| GTET                                                           | Gamma Telemetry Tool                                  | 11048627      | 165.00                       | 8.52        | 61.53                   | 60.00                                                   |
| DSNT                                                           | Dual Spaced Neutron                                   | 11019643      | 174.00                       | 9.69        | 51.84                   | 60.00                                                   |
| DCNT                                                           | DSN Decentralizer                                     | 10755066      | 6.60                         | 5.13        | * 55.17                 | 300.00                                                  |
| SDLT                                                           | Spectral Density Tool                                 | 10950489      | 360.00                       | 10.81       | 41.03                   | 60.00                                                   |
| MICP                                                           | Microlog Pad                                          | 10950489      | 8.00                         | 1.00        | * 43.53                 | 60.00                                                   |
| SDLP                                                           | Density Insite Pad                                    | 10844781      | 65.00                        | 2.55        | * 43.24                 | 60.00                                                   |
| IQF                                                            | IQ Flex tool                                          | 00000696      | 140.00                       | 5.67        | 35.36                   | 300.00                                                  |
| BSAT                                                           | Borehole Sonic Array Tool                             | 10747683      | 300.00                       | 15.77       | 19.58                   | 60.00                                                   |
| OBCEN                                                          | Centralizer - 25 in. Overbody                         | 00000027      | 8.00                         | 2.08        | * 32.52                 | 300.00                                                  |
| ACRt                                                           | Array Compensated True Resistivity Instrument Section | 11055059      | 50.00                        | 5.03        | 14.55                   | 300.00                                                  |
| OBCEN                                                          | Centralizer - 25 in. Overbody                         | 00000029      | 8.00                         | 2.08        | * 16.39                 | 300.00                                                  |
| ACRt                                                           | Array Compensated True Resistivity Sonde Section      | 11038385      | 200.00                       | 14.22       | 0.33                    | 300.00                                                  |
| BLNS                                                           | Bull Nose                                             | 00000029      | 5.00                         | 0.33        | 0.00                    | 300.00                                                  |
| Total                                                          |                                                       |               | 1,684.60                     | 80.04       |                         |                                                         |
|                                                                |                                                       |               |                              |             |                         | * Not included in Total Length and Length Accumulation. |
| Data: MOSBARGER_B-2i0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE |                                                       |               |                              |             |                         | Date: 10-Sep-13 04:05:20                                |

| HALLIBURTON       |           |          |                                                       |         |       |  |
|-------------------|-----------|----------|-------------------------------------------------------|---------|-------|--|
| PARAMETERS REPORT |           |          |                                                       |         |       |  |
| Depth (ft)        | Tool Name | Mnemonic | Description                                           | Value   | Units |  |
| TOP               |           |          |                                                       |         |       |  |
|                   | SHARED    | BS       | Bit Size                                              | 7.875   | in    |  |
|                   | SHARED    | UBS      | Use Bit Size instead of Caliper for all applications. | No      |       |  |
|                   | SHARED    | MDBS     | Mud Base                                              | Water   |       |  |
|                   | SHARED    | MDWT     | Borehole Fluid Weight                                 | 9.400   | ppg   |  |
|                   | SHARED    | WAGT     | Weighting Agent                                       | Natural |       |  |
|                   | SHARED    | BSAL     | Borehole salinity                                     | 0.00    | ppm   |  |
|                   | SHARED    | FSAL     | Formation Salinity NaCl                               | 0.00    | ppm   |  |
|                   | SHARED    | KPCT     | Percent K in Mud by Weight?                           | 0.00    | %     |  |
|                   | SHARED    | RMUD     | Mud Resistivity                                       | 2.000   | ohmm  |  |
|                   | SHARED    | TRM      | Temperature of Mud                                    | 75.0    | degF  |  |
|                   | SHARED    | CSD      | Logging Interval is Cased?                            | No      |       |  |
|                   | SHARED    | ICOD     | AHV Casing OD                                         | 5.500   | in    |  |

|                 |      |                                              |                |      |
|-----------------|------|----------------------------------------------|----------------|------|
| SHARED          | ICOD | ARV Casing OD                                | 3.500          | in   |
| SHARED          | ST   | Surface Temperature                          | 75.0           | degF |
| SHARED          | TD   | Total Well Depth                             | 5706.00        | ft   |
| SHARED          | BHT  | Bottom Hole Temperature                      | 200.0          | degF |
| SHARED          | SVTM | Navigation and Survey Master Tool            | NONE           |      |
| SHARED          | AZTM | High Res Z Accelerometer Master Tool         | GTET           |      |
| SHARED          | TEMM | Temperature Master Tool                      | NONE           |      |
| SHARED          | BHSM | Borehole Size Master Tool                    | NONE           |      |
| Rwa / CrossPlot | XPOK | Process Crossplot?                           | Yes            |      |
| Rwa / CrossPlot | FCHO | Select Source of F                           | Automatic      |      |
| Rwa / CrossPlot | AFAC | Archie A factor                              | 0.6200         |      |
| Rwa / CrossPlot | MFAC | Archie M factor                              | 2.1500         |      |
| Rwa / CrossPlot | RMFR | Rmf Reference                                | 0.10           | ohmm |
| Rwa / CrossPlot | TMFR | Rmf Ref Temp                                 | 75.00          | degF |
| Rwa / CrossPlot | RWA  | Resistivity of Formation Water               | 0.05           | ohmm |
| Rwa / CrossPlot | ADP  | Use Air Porosity to calculate CrossplotPhi   | No             |      |
| GTET            | GROK | Process Gamma Ray?                           | Yes            |      |
| GTET            | GRSO | Gamma Tool Standoff                          | 0.000          | in   |
| GTET            | GEOK | Process Gamma Ray EVR?                       | No             |      |
| GTET            | TPOS | Tool Position for Gamma Ray Tools.           | Eccentered     |      |
| DSNT            | DNOK | Process DSN?                                 | Yes            |      |
| DSNT            | DEOK | Process DSN EVR?                             | No             |      |
| DSNT            | NLIT | Neutron Lithology                            | Limestone      |      |
| DSNT            | DNSO | DSN Standoff - 0.25 in (6.35 mm) Recommended | 0.250          | in   |
| DSNT            | DNTP | Temperature Correction Type                  | None           |      |
| DSNT            | DPRS | DSN Pressure Correction Type                 | None           |      |
| DSNT            | SHCO | View More Correction Options                 | No             |      |
| DSNT            | UTVD | Use TVD for Gradient Corrections?            | No             |      |
| DSNT            | LHWT | Logging Horizontal Water Tank?               | No             |      |
| SDLT            | CLOK | Process Caliper Outputs?                     | Yes            |      |
| SDLT Pad        | DNOK | Process Density?                             | Yes            |      |
| SDLT Pad        | DNOK | Process Density EVR?                         | No             |      |
| SDLT Pad        | CB   | Logging Calibration Blocks?                  | No             |      |
| SDLT Pad        | SPVT | SDLT Pad Temperature Valid?                  | Yes            |      |
| SDLT Pad        | DTWN | Disable temperature warning                  | No             |      |
| SDLT Pad        | DMA  | Formation Density Matrix                     | 2.710          | g/cc |
| SDLT Pad        | DFL  | Formation Density Fluid                      | 1.000          | g/cc |
| Microlog Pad    | MLOK | Process MicroLog Outputs?                    | Yes            |      |
| BSAT            | MBOK | Compute BCAS Results?                        | Yes            |      |
| BSAT            | FLLO | Frequency Filter Low Pass Value?             | 5000           | Hz   |
| BSAT            | FLHI | Frequency Filter High Pass Value?            | 27000          | Hz   |
| BSAT            | DTFL | Delta -T Fluid                               | 189.00         | uspf |
| BSAT            | DTMT | Delta -T Matrix Type                         | User define    |      |
| BSAT            | DTMA | Delta -T Matrix                              | 47.60          | uspf |
| BSAT            | DTSH | Delta -T Shale                               | 100.00         | uspf |
| BSAT            | SPEQ | Acoustic Porosity Equation                   | Wyllie         |      |
| ACRt Sonde      | RTOK | Process ACRt?                                | Yes            |      |
| ACRt Sonde      | MNSO | Minimum Tool Standoff                        | 1.50           | in   |
| ACRt Sonde      | TCS1 | Temperature Correction Source                | FP Lwr & FP Up |      |
| ACRt Sonde      | TPOS | Tool Position                                | Free Hanging   |      |
| ACRt Sonde      | RMOP | Rmud Source                                  | Mud Cell       |      |
| ACRt Sonde      | RMIN | Minimum Resistivity for MAP                  | 0.20           | ohmm |

|                                                                |      |                             |                          |      |
|----------------------------------------------------------------|------|-----------------------------|--------------------------|------|
| ACRt Sonde                                                     | RMIN | Minimum Resistivity for MAP | 200.00                   | ohmm |
| ACRt Sonde                                                     | THQY | Threshold Quality           | 0.50                     |      |
| ACRt Sonde                                                     | MRFX | Fixed mud resistivity       | 2000                     | ohmm |
| BOTTOM                                                         |      |                             |                          |      |
| Data: MOSBARGER_B-2I0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE |      |                             | Date: 10-Sep-13 04:07:05 |      |

| HALLIBURTON                      |                                                         |            |             |                    |
|----------------------------------|---------------------------------------------------------|------------|-------------|--------------------|
| INPUTS, DELAYS AND FILTERS TABLE |                                                         |            |             |                    |
| Mnemonic                         | Input Description                                       | Delay (ft) | Filter Type | Filter Length (ft) |
| Depth Panel                      |                                                         |            |             |                    |
| TENS                             | Tension                                                 | 0.00       | NO          |                    |
| RWCH                             |                                                         |            |             |                    |
| DHTN                             | DownholeTension                                         | 0.00       | BLK         | 0.000              |
| SP Sub                           |                                                         |            |             |                    |
| PLTC                             | Plot Control Mask                                       | 72.01      | NO          |                    |
| SP                               | Spontaneous Potential                                   | 72.01      | BLK         | 1.250              |
| SPR                              | Raw Spontaneous Potential                               | 72.01      | NO          |                    |
| SPO                              | Spontaneous Potential Offset                            | 72.01      | NO          |                    |
| GTET                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 63.99      | NO          |                    |
| GR                               | Natural Gamma Ray API                                   | 63.99      | TRI         | 1.750              |
| GRU                              | Unfiltered Natural Gamma Ray API                        | 63.99      | NO          |                    |
| EGR                              | Natural Gamma Ray API with Enhanced Vertical Resolution | 63.99      | W           | 1.416 , 0.750      |
| ACCZ                             | Accelerometer Z                                         | 0.00       | BLK         | 0.083              |
| DEVI                             | Inclination                                             | 0.00       | NO          |                    |
| DSNT                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 53.74      | NO          |                    |
| RNDS                             | Near Detector Telemetry Counts                          | 53.84      | BLK         | 1.417              |
| RFDS                             | Far Detector Telemetry Counts                           | 54.59      | TRI         | 0.583              |
| DNTT                             | DSN Tool Temperature                                    | 53.84      | NO          |                    |
| DSNS                             | DSN Tool Status                                         | 53.74      | NO          |                    |
| ERND                             | Near Detector Telemetry Counts EVR                      | 53.84      | BLK         | 0.000              |
| ERFD                             | Far Detector Telemetry Counts EVR                       | 54.59      | BLK         | 0.000              |
| ENTM                             | DSN Tool Temperature EVR                                | 53.84      | NO          |                    |
| SDLT                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 43.84      | NO          |                    |
| PCAL                             | Pad Caliper                                             | 43.84      | TRI         | 0.250              |
| ACAL                             | Arm Caliper                                             | 43.84      | TRI         | 0.250              |
| BSAT                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 26.84      | NO          |                    |
| STAT                             | Status                                                  | 26.84      | NO          |                    |
| DLYT                             | Delay Time                                              | 26.84      | NO          |                    |
| SI                               | Sample Interval                                         | 26.84      | NO          |                    |
| TXRX                             | Raw Telemetry 10 Receivers                              | 26.84      | NO          |                    |
| FRMC                             | Tool Frame Count                                        | 26.84      | NO          |                    |
| GMOD                             | Gain processing mode                                    | 19.58      | NO          |                    |

| ACRt Sonde |                                               |       |     |       |
|------------|-----------------------------------------------|-------|-----|-------|
| TPUL       | Tension Pull                                  | 2.73  | NO  |       |
| F1R1       | ACRT 12KHz - 80in R value                     | 8.98  | BLK | 0.000 |
| F1X1       | ACRT 12KHz - 80in X value                     | 8.98  | BLK | 0.000 |
| F1R2       | ACRT 12KHz - 50in R value                     | 6.48  | BLK | 0.000 |
| F1X2       | ACRT 12KHz - 50in X value                     | 6.48  | BLK | 0.000 |
| F1R3       | ACRT 12KHz - 29in R value                     | 4.98  | BLK | 0.000 |
| F1X3       | ACRT 12KHz - 29in X value                     | 4.98  | BLK | 0.000 |
| F1R4       | ACRT 12KHz - 17in R value                     | 3.98  | BLK | 0.000 |
| F1X4       | ACRT 12KHz - 17in X value                     | 3.98  | BLK | 0.000 |
| F1R5       | ACRT 12KHz - 10in R value                     | 3.48  | BLK | 0.000 |
| F1X5       | ACRT 12KHz - 10in X value                     | 3.48  | BLK | 0.000 |
| F1R6       | ACRT 12KHz - 6in R value                      | 3.23  | BLK | 0.000 |
| F1X6       | ACRT 12KHz - 6in X value                      | 3.23  | BLK | 0.000 |
| F2R1       | ACRT 36KHz - 80in R value                     | 8.98  | BLK | 0.000 |
| F2X1       | ACRT 36KHz - 80in X value                     | 8.98  | BLK | 0.000 |
| F2R2       | ACRT 36KHz - 50in R value                     | 6.48  | BLK | 0.000 |
| F2X2       | ACRT 36KHz - 50in X value                     | 6.48  | BLK | 0.000 |
| F2R3       | ACRT 36KHz - 29in R value                     | 4.98  | BLK | 0.000 |
| F2X3       | ACRT 36KHz - 29in X value                     | 4.98  | BLK | 0.000 |
| F2R4       | ACRT 36KHz - 17in R value                     | 3.98  | BLK | 0.000 |
| F2X4       | ACRT 36KHz - 17in X value                     | 3.98  | BLK | 0.000 |
| F2R5       | ACRT 36KHz - 10in R value                     | 3.48  | BLK | 0.000 |
| F2X5       | ACRT 36KHz - 10in X value                     | 3.48  | BLK | 0.000 |
| F2R6       | ACRT 36KHz - 6in R value                      | 3.23  | BLK | 0.000 |
| F2X6       | ACRT 36KHz - 6in X value                      | 3.23  | BLK | 0.000 |
| F3R1       | ACRT 72KHz - 80in R value                     | 8.98  | BLK | 0.000 |
| F3X1       | ACRT 72KHz - 80in X value                     | 8.98  | BLK | 0.000 |
| F3R2       | ACRT 72KHz - 50in R value                     | 6.48  | BLK | 0.000 |
| F3X2       | ACRT 72KHz - 50in X value                     | 6.48  | BLK | 0.000 |
| F3R3       | ACRT 72KHz - 29in R value                     | 4.98  | BLK | 0.000 |
| F3X3       | ACRT 72KHz - 29in X value                     | 4.98  | BLK | 0.000 |
| F3R4       | ACRT 72KHz - 17in R value                     | 3.98  | BLK | 0.000 |
| F3X4       | ACRT 72KHz - 17in X value                     | 3.98  | BLK | 0.000 |
| F3R5       | ACRT 72KHz - 10in R value                     | 3.48  | BLK | 0.000 |
| F3X5       | ACRT 72KHz - 10in X value                     | 3.48  | BLK | 0.000 |
| F3R6       | ACRT 72KHz - 6in R value                      | 3.23  | BLK | 0.000 |
| F3X6       | ACRT 72KHz - 6in X value                      | 3.23  | BLK | 0.000 |
| RMUD       | Mud Resistivity                               | 12.52 | BLK | 0.000 |
| F1RT       | Transmitter Current Raw 12K X Receiver        | 2.73  | BLK | 0.000 |
| F1XT       | Transmitter Reference 12 KHz Imaginary Signal | 2.73  | BLK | 0.000 |
| F2RT       | Transmitter Reference 36 KHz Real Signal      | 2.73  | BLK | 0.000 |
| F2XT       | Transmitter Reference 36 KHz Imaginary Signal | 2.73  | BLK | 0.000 |
| F3RT       | Transmitter Reference 72 KHz Real Signal      | 2.73  | BLK | 0.000 |
| F3XT       | Transmitter Reference 72 KHz Imaginary Signal | 2.73  | BLK | 0.000 |
| TFPU       | Upper Feedpipe Temperature Calculated         | 2.73  | BLK | 0.000 |
| TFPL       | Lower Feedpipe Temperature Calculated         | 2.73  | BLK | 0.000 |
| ITMP       | Instrument Temperature                        | 2.73  | BLK | 0.000 |
| TCVA       | Temperature Correction Values Loop Off        | 2.73  | NO  |       |
| TIDV       | Instrument Temperature Derivative             | 2.73  | NO  |       |
| TUDV       | Upper Temperature Derivative                  | 2.73  | NO  |       |
| TLDV       | Lower Temperature Derivative                  | 2.73  | NO  |       |
| TRBD       | Receiver Board Temperature                    | 2.73  | NO  |       |

| SDLT Pad                                                       |                            |       |                          |       |
|----------------------------------------------------------------|----------------------------|-------|--------------------------|-------|
| TPUL                                                           | Tension Pull               | 43.83 | NO                       |       |
| NAB                                                            | Near Above                 | 43.66 | BLK                      | 0.920 |
| NHI                                                            | Near Cesium High           | 43.66 | BLK                      | 0.920 |
| NLO                                                            | Near Cesium Low            | 43.66 | BLK                      | 0.920 |
| NVA                                                            | Near Valley                | 43.66 | BLK                      | 0.920 |
| NBA                                                            | Near Barite                | 43.66 | BLK                      | 0.920 |
| NDE                                                            | Near Density               | 43.66 | BLK                      | 0.920 |
| NPK                                                            | Near Peak                  | 43.66 | BLK                      | 0.920 |
| NLI                                                            | Near Lithology             | 43.66 | BLK                      | 0.920 |
| NBAU                                                           | Near Barite Unfiltered     | 43.66 | BLK                      | 0.250 |
| NLIU                                                           | Near Lithology Unfiltered  | 43.66 | BLK                      | 0.250 |
| FAB                                                            | Far Above                  | 44.01 | BLK                      | 0.250 |
| FHI                                                            | Far Cesium High            | 44.01 | BLK                      | 0.250 |
| FLO                                                            | Far Cesium Low             | 44.01 | BLK                      | 0.250 |
| FVA                                                            | Far Valley                 | 44.01 | BLK                      | 0.250 |
| FBA                                                            | Far Barite                 | 44.01 | BLK                      | 0.250 |
| FDE                                                            | Far Density                | 44.01 | BLK                      | 0.250 |
| FPK                                                            | Far Peak                   | 44.01 | BLK                      | 0.250 |
| FLI                                                            | Far Lithology              | 44.01 | BLK                      | 0.250 |
| PTMP                                                           | Pad Temperature            | 43.84 | BLK                      | 0.920 |
| NHV                                                            | Near Detector High Voltage | 43.24 | NO                       |       |
| FHV                                                            | Far Detector High Voltage  | 43.24 | NO                       |       |
| ITMP                                                           | Instrument Temperature     | 43.24 | NO                       |       |
| DDHV                                                           | Detector High Voltage      | 43.24 | NO                       |       |
| Microlog Pad                                                   |                            |       |                          |       |
| TPUL                                                           | Tension Pull               | 44.03 | NO                       |       |
| MINV                                                           | Microlog Lateral           | 44.03 | BLK                      | 0.750 |
| MNOR                                                           | Microlog Normal            | 44.03 | BLK                      | 0.750 |
| Data: MOSBARGER_B-2I0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE |                            |       | Date: 10-Sep-13 04:06:02 |       |

|             |                  |                                            |        |
|-------------|------------------|--------------------------------------------|--------|
| COMPANY     | OXY USA INC.     |                                            |        |
| WELL        | MOSBARGER B-2    |                                            |        |
| FIELD       | HUGOTON GAS AREA |                                            |        |
| COUNTY      | HASKELL          | STATE                                      | KANSAS |
| HALLIBURTON |                  | BOREHOLE COMPENSATED<br>SONIC ARRAY<br>LOG |        |