

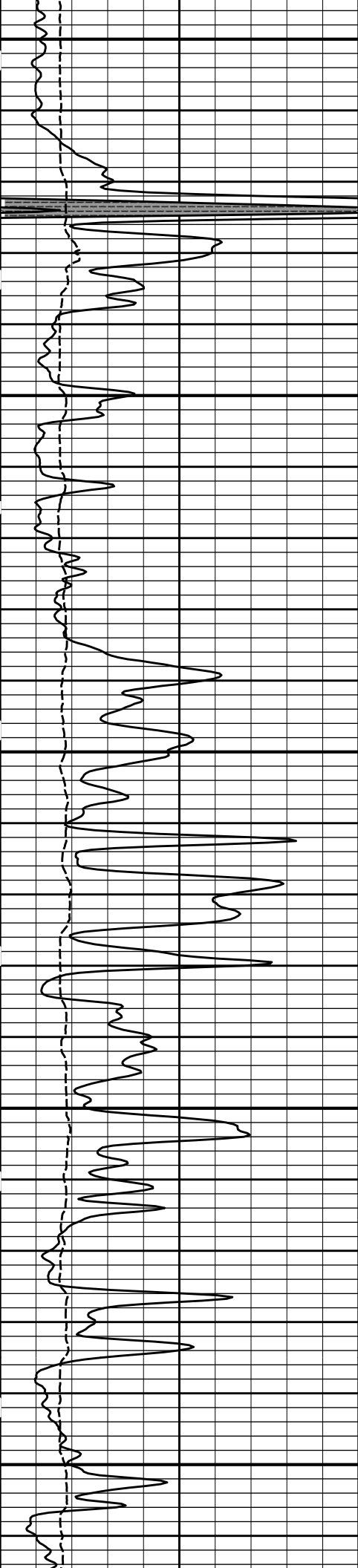
# MICROLOG

Fold here

## LOGGING DATA

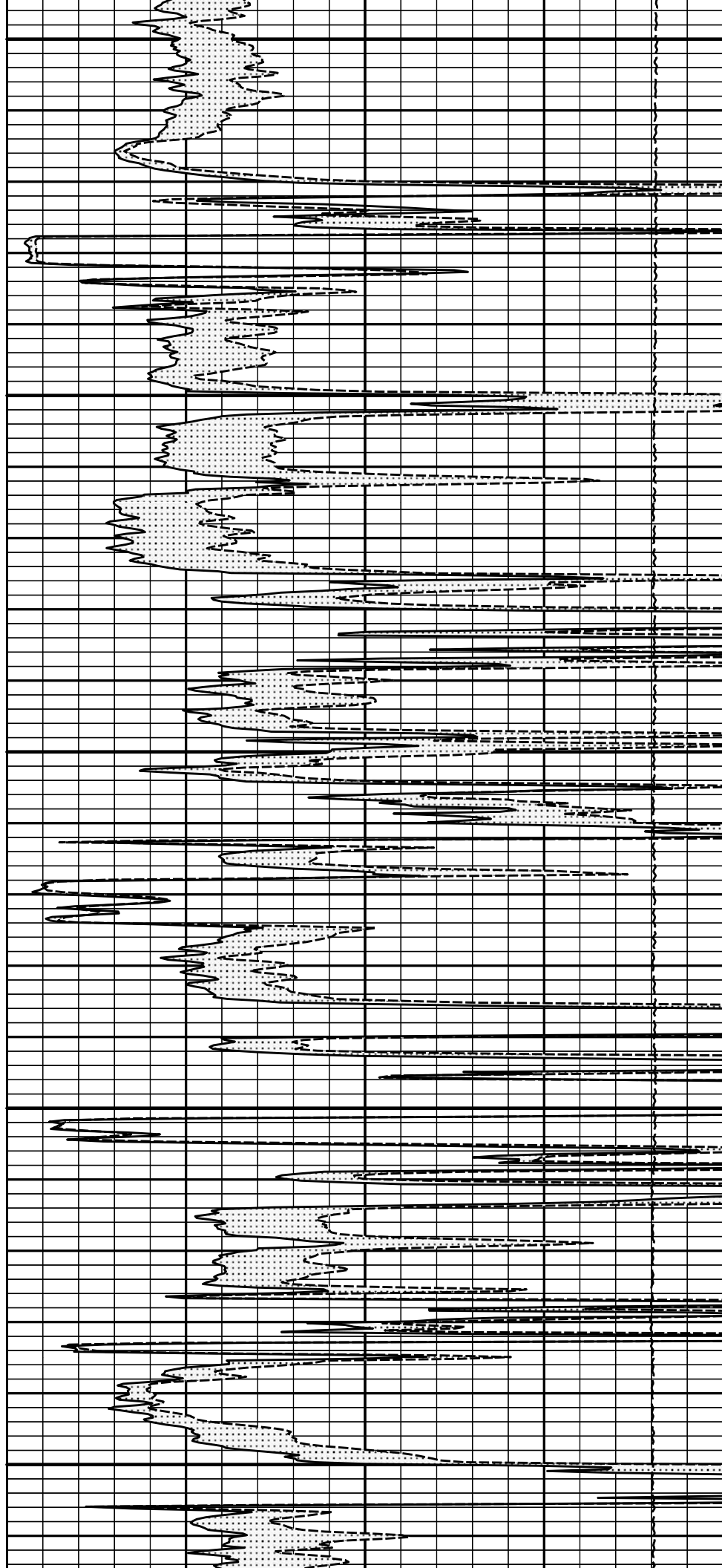
[illegible]

|                     |  |  |                      |  |  |
|---------------------|--|--|----------------------|--|--|
|                     |  |  | PERMEABLE            |  |  |
| SHALE               |  |  | 0 MicrologNormal 20  |  |  |
| 0 Gamma API 150     |  |  | 0 MicrologLateral 20 |  |  |
| api                 |  |  | ohm-metre            |  |  |
| 6 Caliper 16        |  |  | 15K Tension 0        |  |  |
| inches              |  |  | pounds               |  |  |
|                     |  |  |                      |  |  |
| MD<br>1 : 240<br>ft |  |  | 3700                 |  |  |



3800

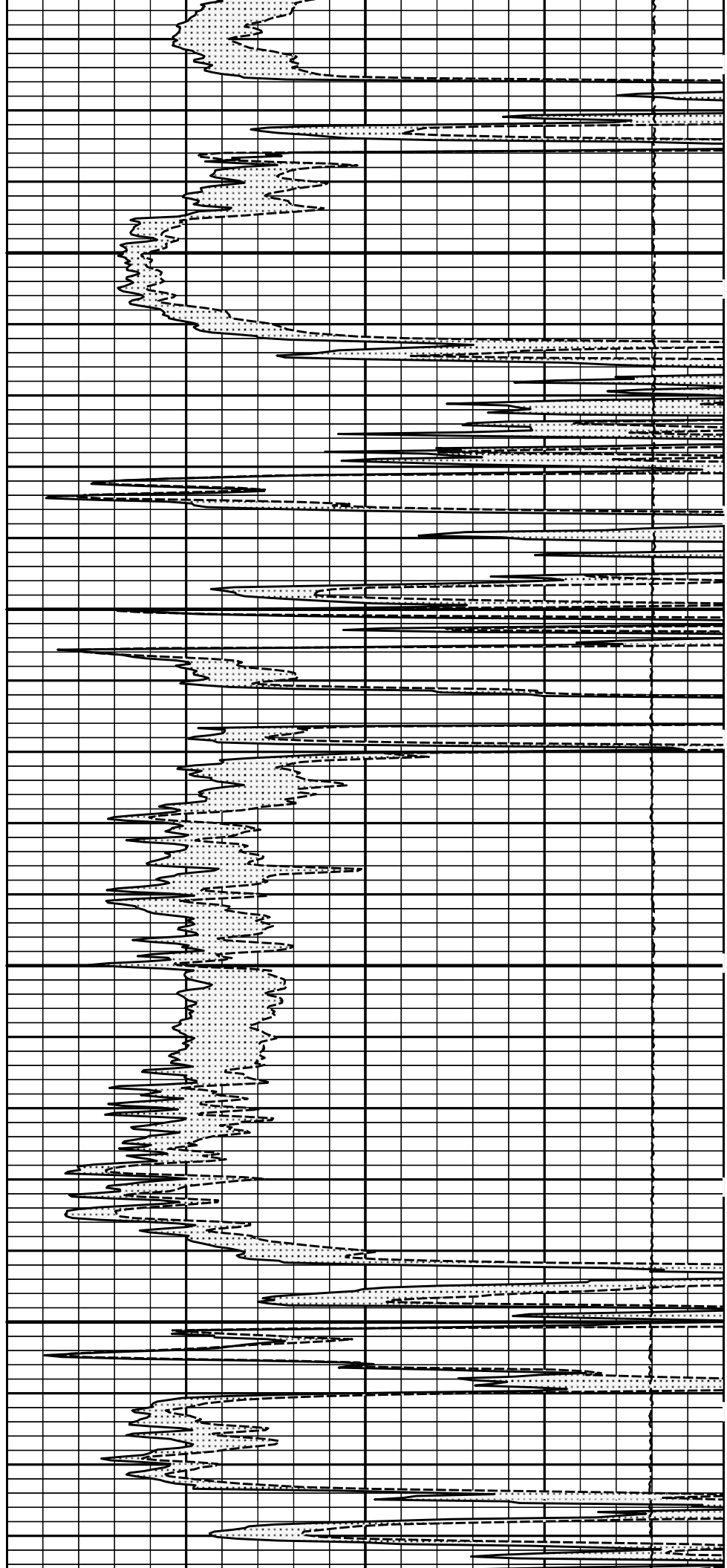
3900

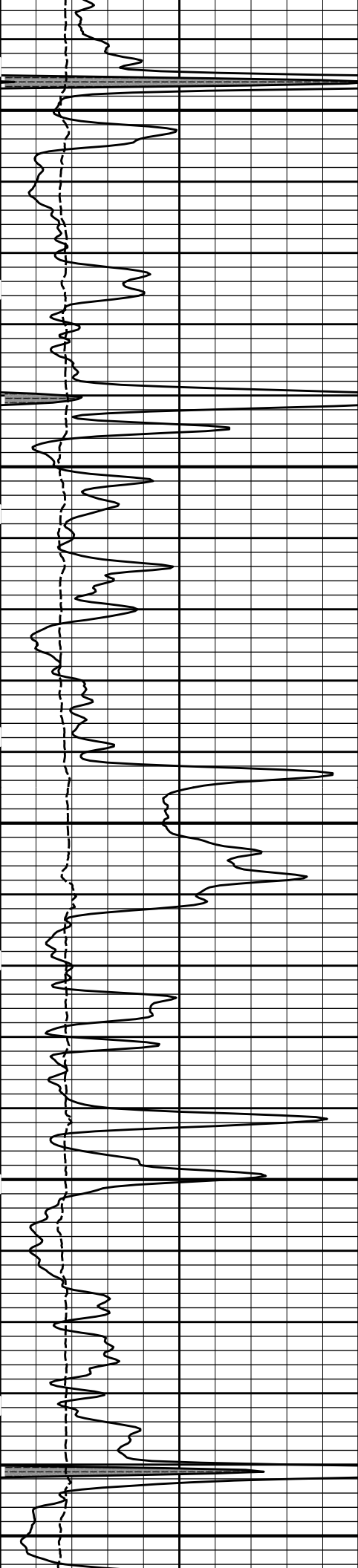




4000

4100

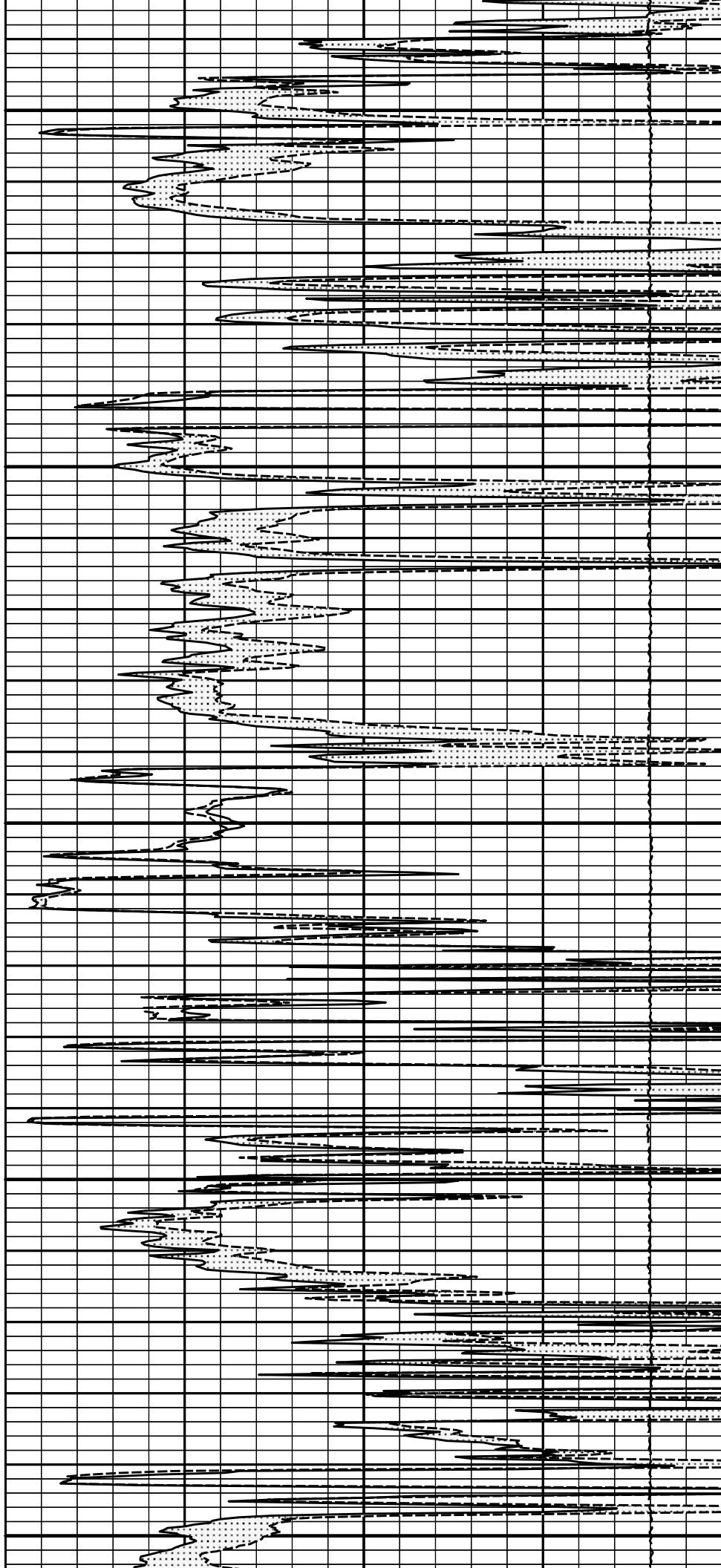




4200

4300

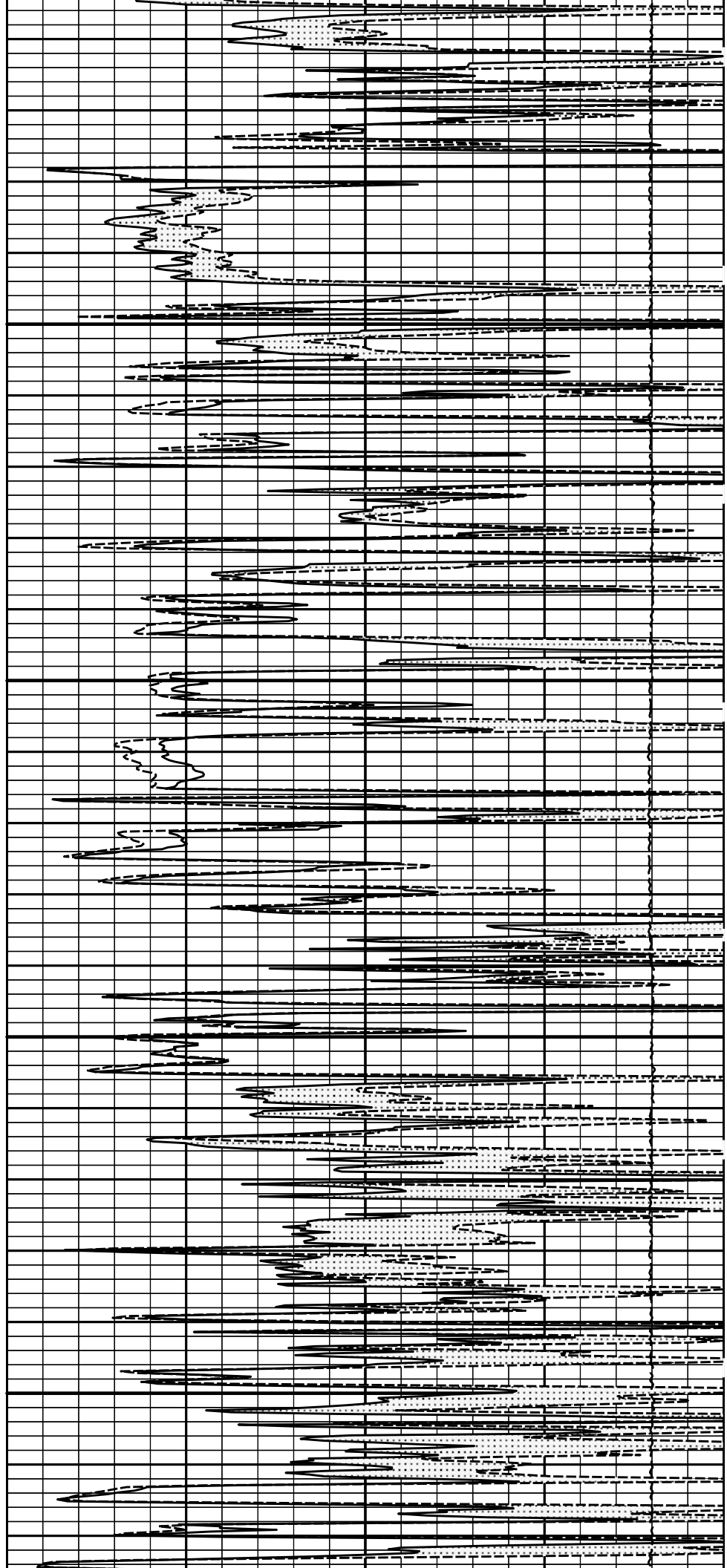
4400

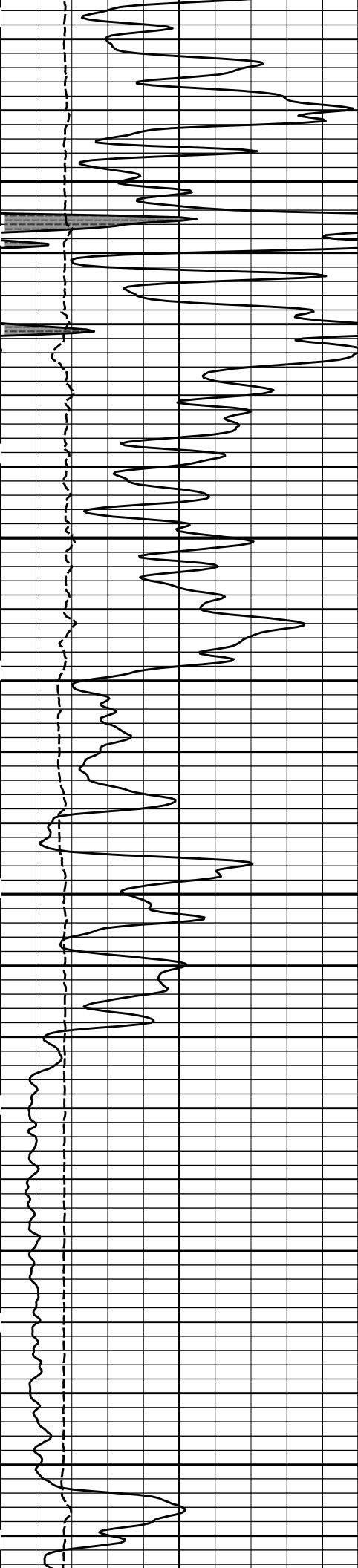




4500

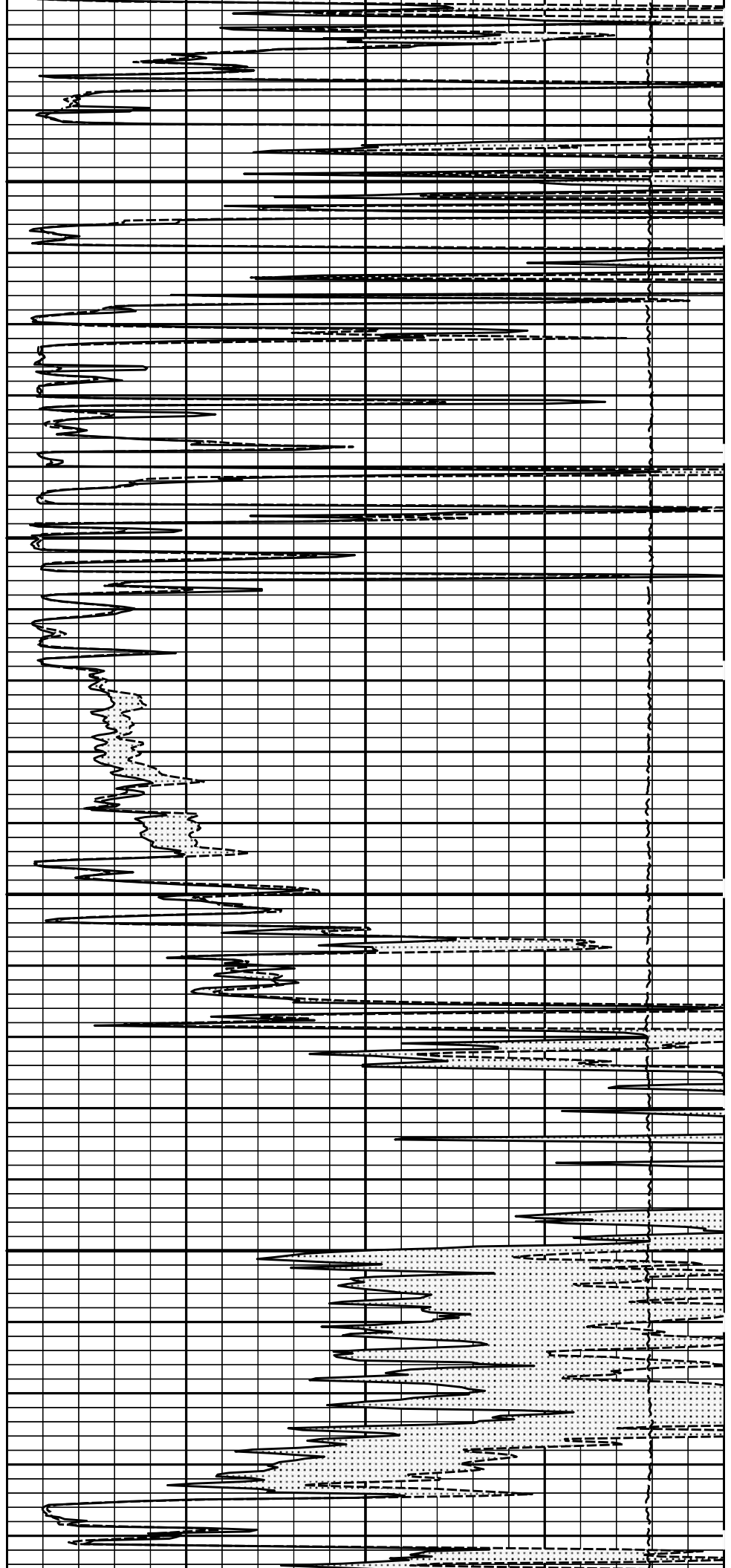
4600

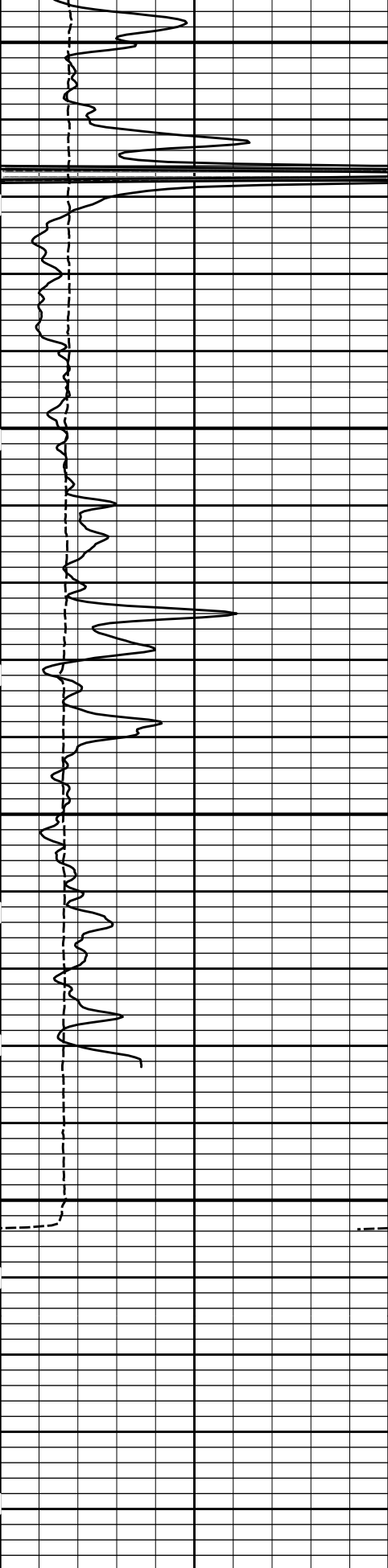




4700

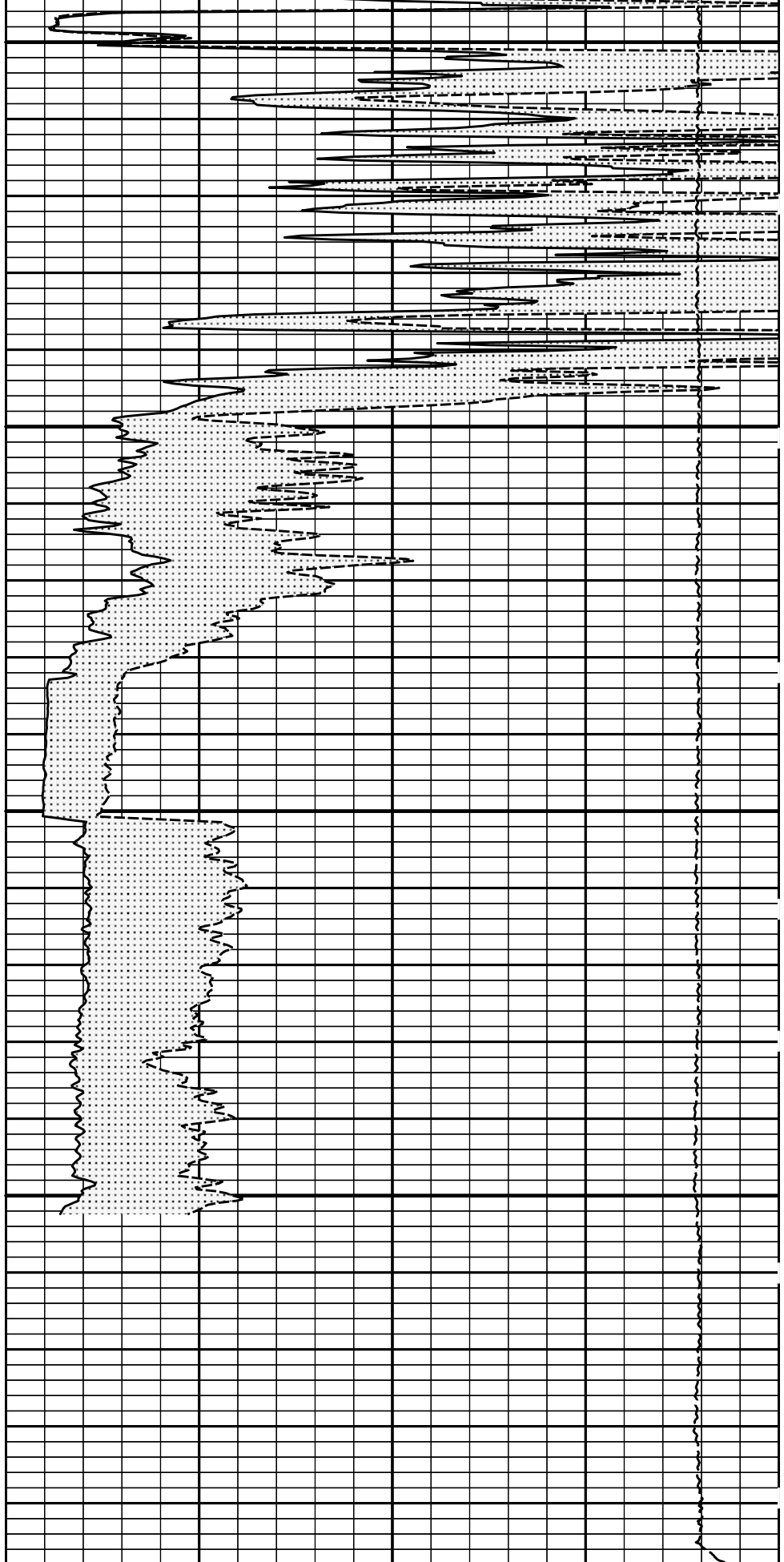
4800





4900

5000



|   |           |     |
|---|-----------|-----|
| 6 | Caliper   | 16  |
|   | inches    |     |
| 0 | Gamma API | 150 |

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

|     |                 |    |
|-----|-----------------|----|
| 15K | Tension         | 0  |
|     | pounds          |    |
| 0   | MicrologLateral | 20 |



|       |                   |
|-------|-------------------|
| api   | ohm-metre         |
| SHALE | 0MicrologNormal20 |
|       | ohm-metre         |
|       | PERMEABLE         |

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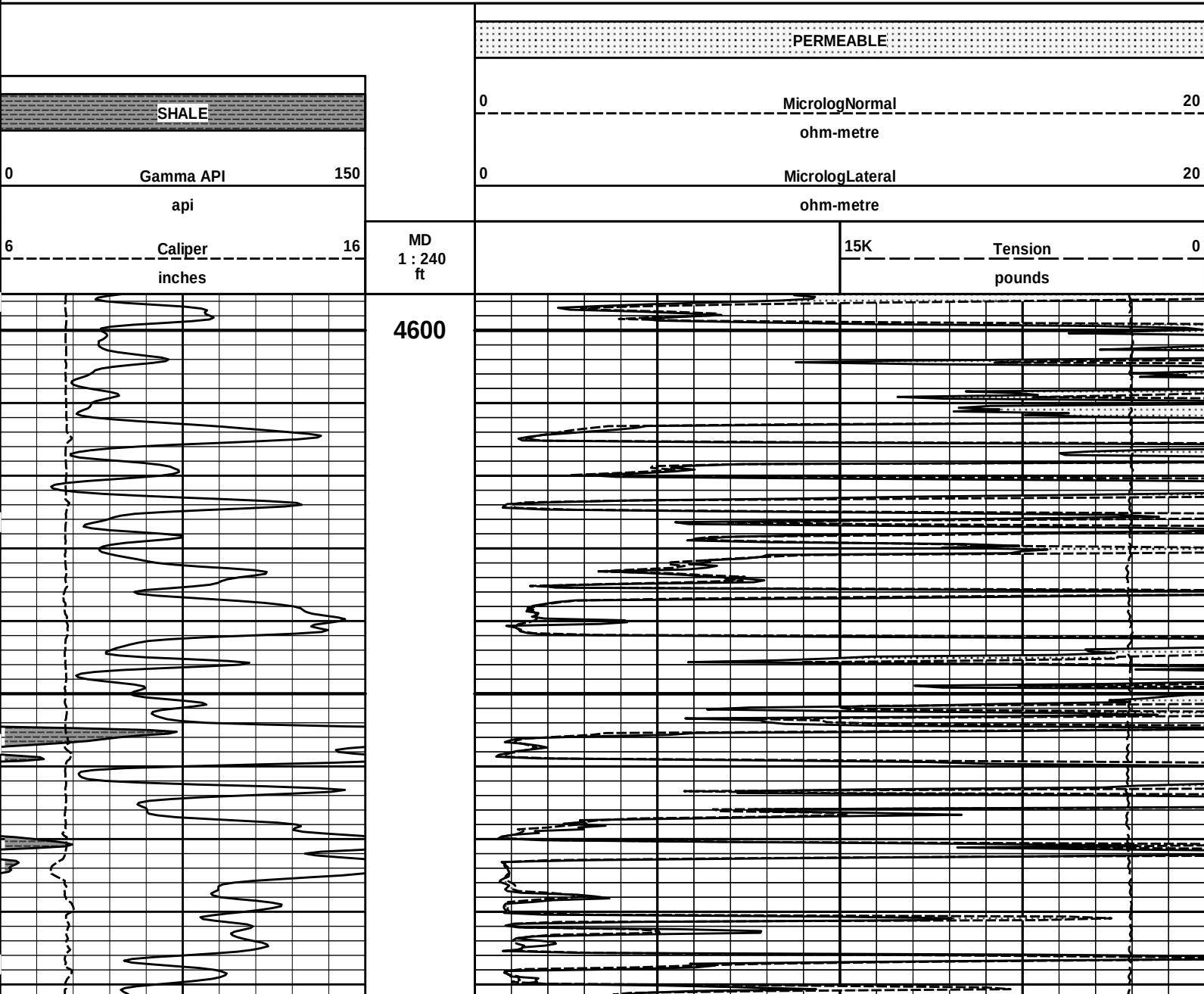
Plot Time: 12-Jul-14 14:22:33  
Plot Range: 3695 ft to 5047.83 ft  
Data: HYLBOM\_A-6\Well Based\IR1 DETAIL\  
Plot File: \\LOCAL-1\HYLBOM\_A-6\Well Based\MICROLOG\Microlog\_IQ\_5\_main\_lib

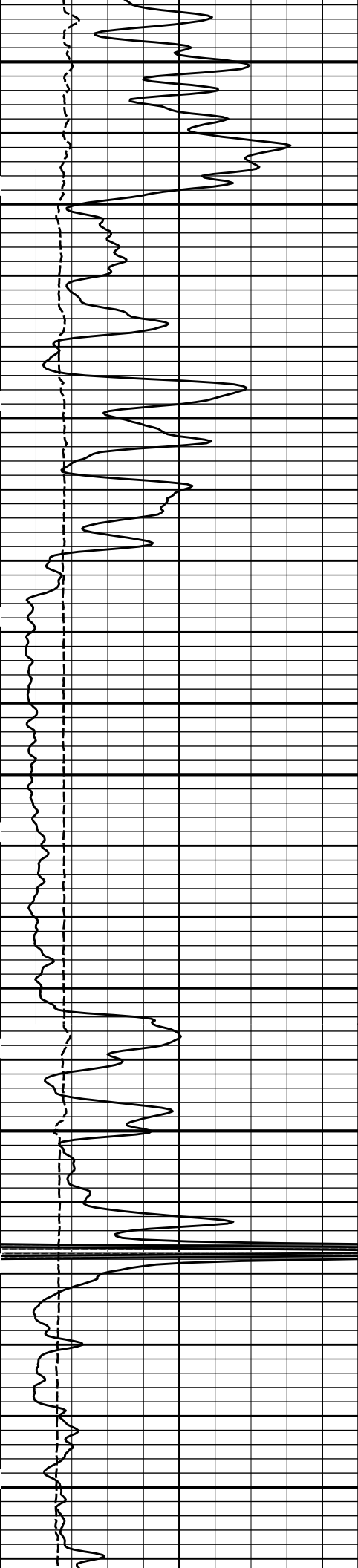
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 12-Jul-14 14:22:33  
Plot Range: 4595 ft to 4980.5 ft  
Data: HYLBOM\_A-6\Well Based\IR1 REPEAT\  
Plot File: \\LOCAL-1\HYLBOM\_A-6\Well Based\MICROLOG\Microlog\_IQ\_5\_rep\_lib

REPEAT SECTION

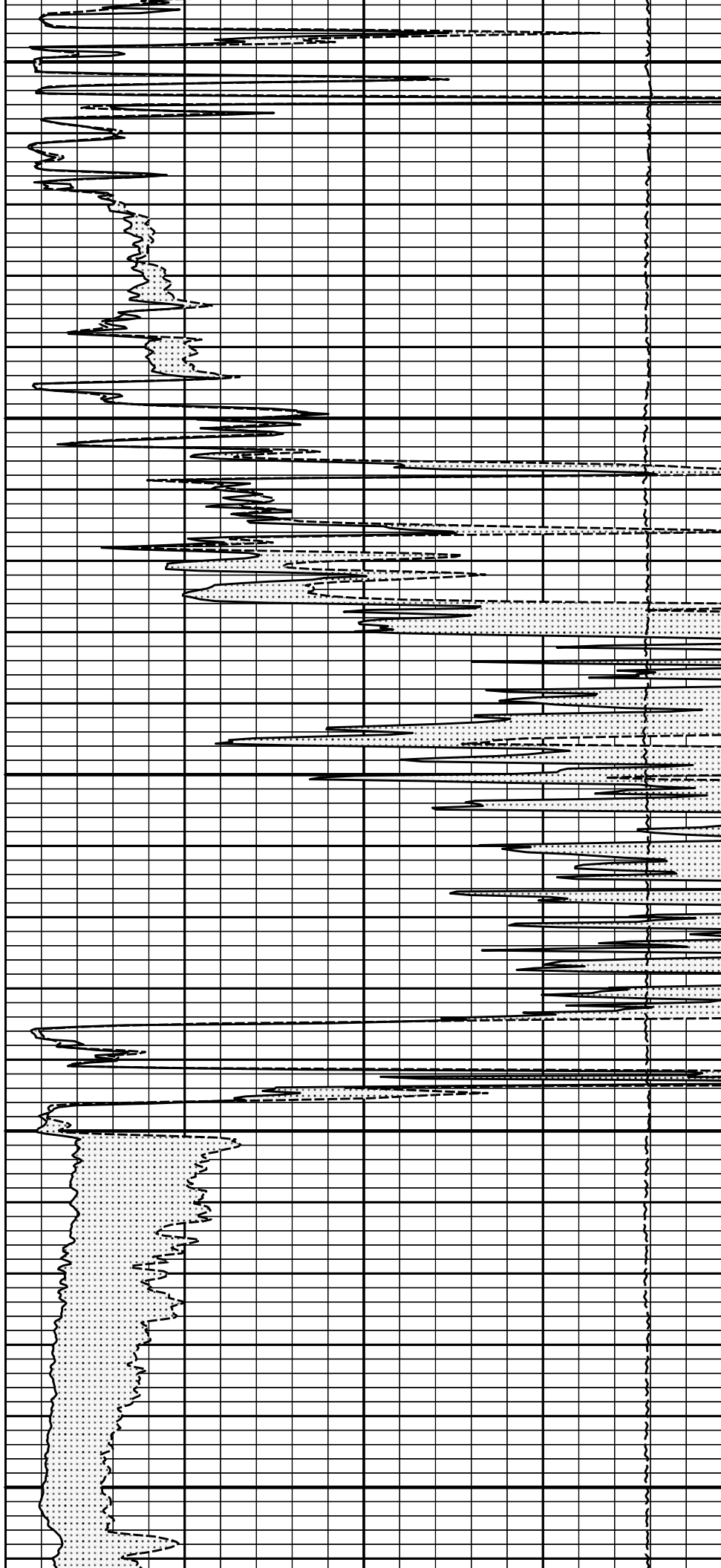


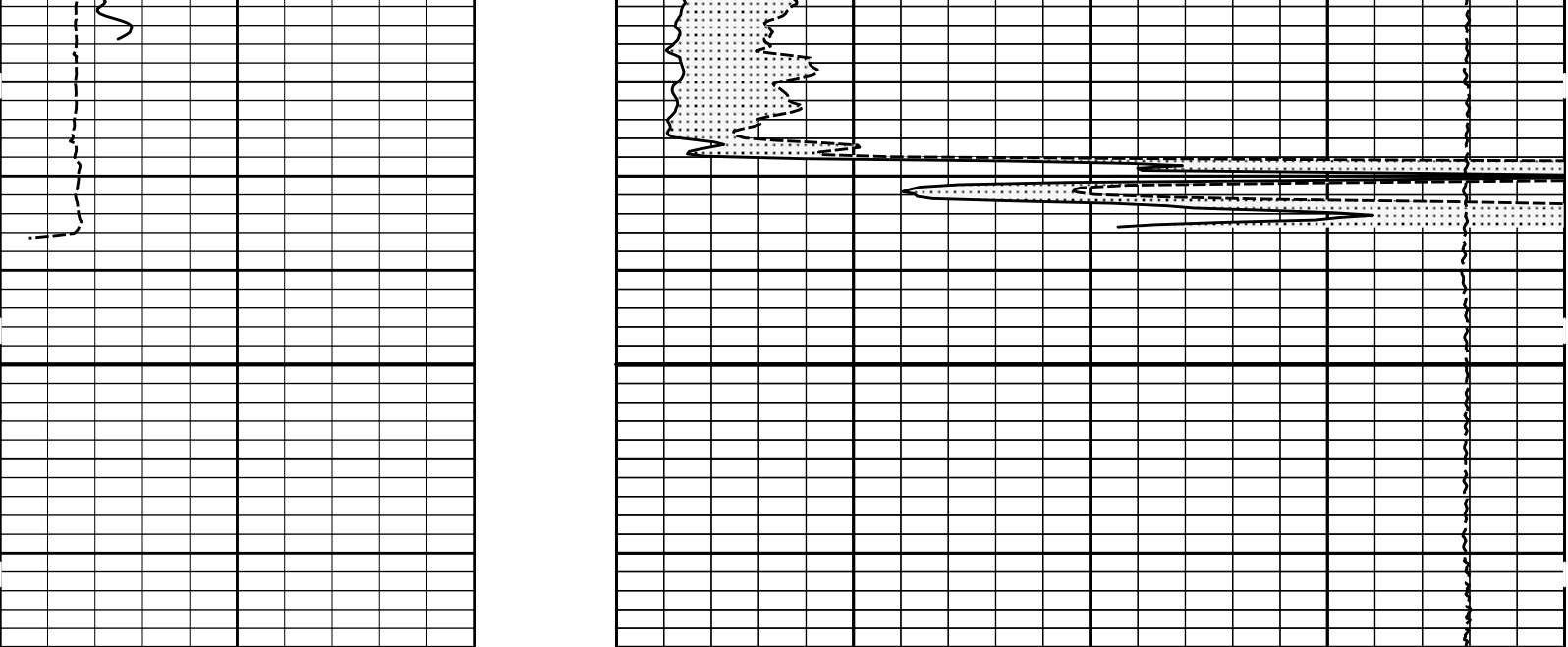


4700

4800

4900





|   |           |     |         |   |                 |         |    |
|---|-----------|-----|---------|---|-----------------|---------|----|
| 6 | Caliper   | 16  | MD      |   | 15K             | Tension | 0  |
|   | inches    |     | 1 : 240 |   |                 | pounds  |    |
| 0 | Gamma API | 150 |         | 0 | MicrologLateral |         | 20 |
|   | api       |     |         |   | ohm-metre       |         |    |
|   | SHALE     |     |         | 0 | MicrologNormal  |         | 20 |
|   |           |     |         |   | ohm-metre       |         |    |
|   |           |     |         |   | PERMEABLE       |         |    |

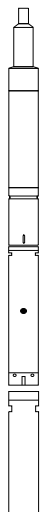
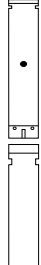
**HALLIBURTON**

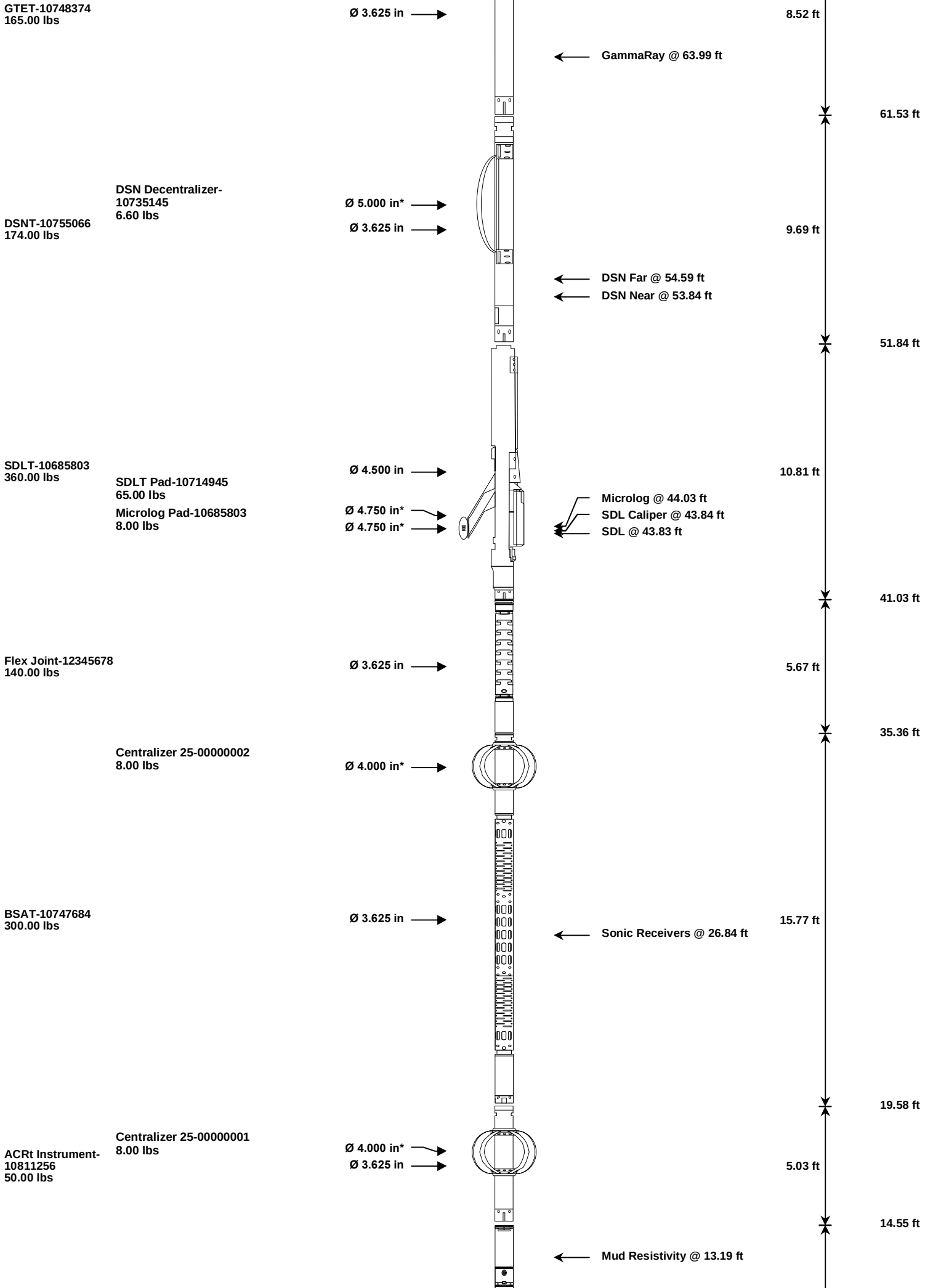
Plot Time: 12-Jul-14 14:22:34  
Plot Range: 4595 ft to 4980.5 ft  
Data: HYLBOA-6Well Based\REPEAT\  
Plot File: \\LOCAL-1\HYLBOM\_A-6Well Based\MICROLOG\Microlog\_IQ\_5\_rep\_lib

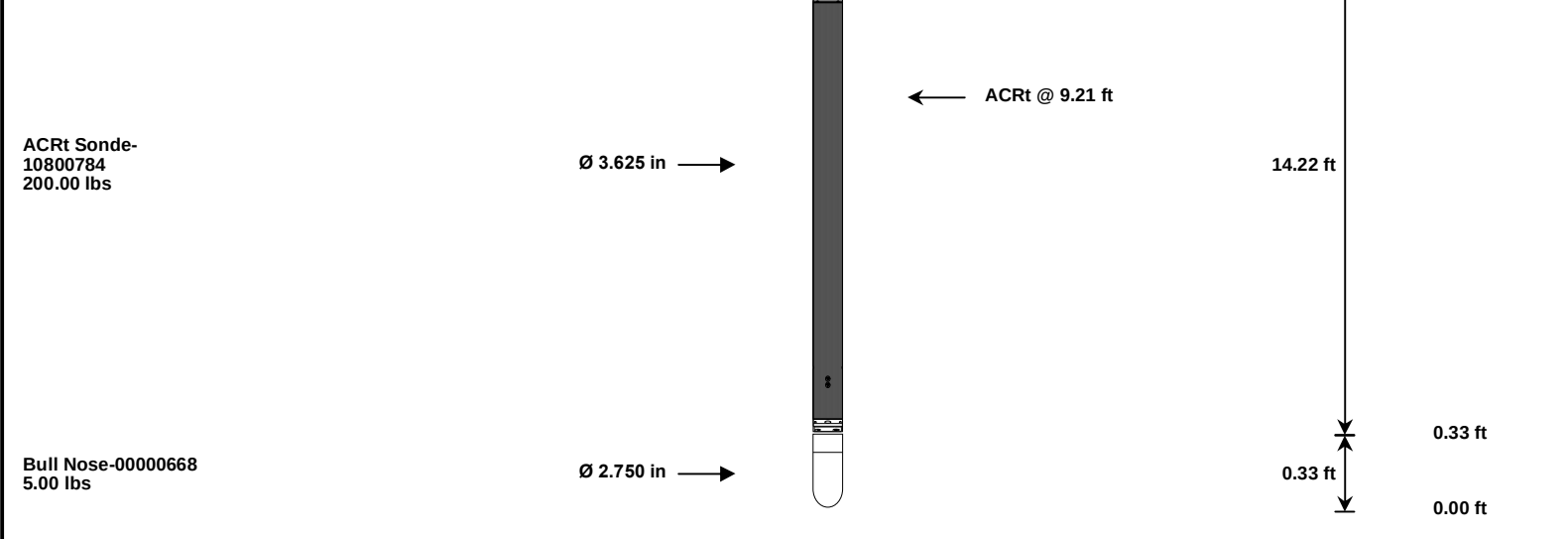
**REPEAT SECTION**

**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-12345678<br>60.00 lbs |                      | Ø 3.625 in |  | ← SP @ 72.01 ft                                       | 3.74 ft | 73.79 ft           |
|                              |                      |            |                                                                                     |                                                       |         | 70.05 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                                                |           | 12345678      | 60.00        | 3.74        | 70.05                   | 300.00               |        |
| GTET                                                          | Gamma Telemetry Tool                                  |           | 10748374      | 165.00       | 8.52        | 61.53                   | 60.00                |        |
| DSNT                                                          | Dual Spaced Neutron                                   |           | 10755066      | 174.00       | 9.69        | 51.84                   | 60.00                |        |
| DCNT                                                          | DSN Decentralizer                                     |           | 10735145      | 6.60         | 5.13        | *                       | 55.17                | 300.00 |
| SDLT                                                          | Spectral Density Tool                                 |           | 10685803      | 360.00       | 10.81       | 41.03                   | 60.00                |        |
| SDLP                                                          | Density Insite Pad                                    |           | 10714945      | 65.00        | 2.55        | *                       | 43.24                | 60.00  |
| MICP                                                          | Microlog Pad                                          |           | 10685803      | 8.00         | 1.00        | *                       | 43.53                | 60.00  |
| FLEX                                                          | Flex Joint                                            |           | 12345678      | 140.00       | 5.67        | 35.36                   | 300.00               |        |
| BSAT                                                          | Borehole Sonic Array Tool                             |           | 10747684      | 300.00       | 15.77       | 19.58                   | 60.00                |        |
| OBCEN                                                         | Centralizer - 25 in. Overbody                         |           | 00000002      | 8.00         | 2.08        | *                       | 32.89                | 300.00 |
| ACRt                                                          | Array Compensated True Resistivity Instrument Section |           | 10811256      | 50.00        | 5.03        | 14.55                   | 120.00               |        |
| OBCEN                                                         | Centralizer - 25 in. Overbody                         |           | 00000001      | 8.00         | 2.08        | *                       | 16.57                | 300.00 |
| ACRt                                                          | Array Compensated True Resistivity Sonde Section      |           | 10800784      | 200.00       | 14.22       | 0.33                    | 120.00               |        |
| BLNS                                                          | Bull Nose                                             |           | 00000668      | 5.00         | 0.33        | 0.00                    | 300.00               |        |
| Total                                                         |                                                       |           |               | 1,684.60     | 80.04       |                         |                      |        |
| * Not included in Total Length and Length Accumulation.       |                                                       |           |               |              |             |                         |                      |        |
| Data: HYLBOm_A-6I0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BNIDLE |                                                       |           |               |              |             |                         |                      |        |
| Date: 12-Jul-14 10:40:48                                      |                                                       |           |               |              |             |                         |                      |        |

# HALLIBURTON

| Depth<br>(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                                 | 9.100   | 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                                       | 1.000   | 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    | ST       | Surface Temperature                                   | 75.0    | degF  |
|               | SHARED    | TD       | Total Well Depth                                      | 5039.00 | ft    |

|                 |      |                                              |                |      |
|-----------------|------|----------------------------------------------|----------------|------|
| SHARED          | TD   | Total Well Depth                             | 3039.00        | ft   |
| SHARED          | BHT  | Bottom Hole Temperature                      | 135.0          | degF |
| SHARED          | SVTM | Navigation and Survey Master Tool            | NONE           |      |
| SHARED          | AZTM | High Res Z Accelerometer Master Tool         | GTET           |      |
| SHARED          | TEMM | Temperature Master Tool                      | NONE           |      |
| 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             |      |
| Rwa / CrossPlot | BHSM | Borehole Size Source Tool                    | SDLT           |      |
| 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     |      |
| GTET            | BHSM | Borehole Size Source Tool                    | SDLT           |      |
| 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             |      |
| DSNT            | BHSM | Borehole Size Source Tool                    | SDLT           |      |
| 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 |
| SDLT Pad        | BHSM | Borehole Size Source Tool                    | SDLT           |      |
| 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                   | Wylie          |      |
| 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 | Maximum Resistivity for MAP | 200.00                   | ohmm |
| ACRt Sonde                                                                                | THQY | Threshold Quality           | 0.50                     |      |
| ACRt Sonde                                                                                | MRFX | Fixed mud resistivity       | 2000                     | ohmm |
| ACRt Sonde                                                                                | BHSM | Borehole Size Source Tool   | SDLT                     |      |
| BOTTOM                                                                                    |      |                             |                          |      |
| Data: HylBOM_A-6I0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BN\006 12-Jul-14 12:57 Up @5048.0f |      |                             | Date: 12-Jul-14 14:07:10 |      |

HALLIBURTON

CALIBRATION REPORT

| NATURAL GAMMA RAY TOOL SHOP CALIBRATION                                                                               |                            |          |                             |                    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|----------|-----------------------------|--------------------|
| Tool Name:                                                                                                            | GTET - 10748374            |          | Reference Calibration Date: | 09-Jun-14 04:41:06 |
| Engineer:                                                                                                             | SUHAIL BISHTI              |          | Calibration Date:           | 02-Jul-14 13:05:19 |
| Software Version:                                                                                                     | WL INSITE R4.2.0 (Build 2) |          | Calibration Version:        | 1                  |
| Calibrator Source S/N: TB-185<br>Calibrator API Reference:228.00 api<br>Equivalent Calibrator API Reference:232.0 api |                            |          |                             |                    |
|                                                                                                                       | Measurement                | Measured | Calibrated                  | Units              |
|                                                                                                                       | Background                 | 41.1     | 41.0                        | api                |
|                                                                                                                       | Background + Calibrator    | 273.6    | 273.0                       | api                |
|                                                                                                                       | Calibrator                 | 232.5    | 232.0                       | api                |

| NATURAL GAMMA RAY TOOL FIELD CALIBRATION                                                                              |                            |       |                             |                    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|-------|-----------------------------|--------------------|
| Tool Name:                                                                                                            | GTET - 10748374            |       | Reference Calibration Date: | 02-Jul-14 13:05:19 |
| Engineer:                                                                                                             | SHELDON INGERSOLL          |       | Calibration Date:           | 12-Jul-14 07:29:34 |
| Software Version:                                                                                                     | WL INSITE R4.2.0 (Build 2) |       | Calibration Version:        | 1                  |
| Calibrator Source S/N: TB-185<br>Calibrator API Reference:228.00 api<br>Equivalent Calibrator API Reference:232.0 api |                            |       |                             |                    |
|                                                                                                                       | Field Verification         | Shop  | Field                       | Units              |
|                                                                                                                       | Background                 | 41.0  | 43.7                        | api                |
|                                                                                                                       | Background + Calibrator    | 273.0 | 278.3                       | api                |
|                                                                                                                       | Calibrator                 | 232.0 | 234.6                       | api                |
|                                                                                                                       | Shop                       | Field | Difference                  | Tolerance          |
|                                                                                                                       | 232.0                      | 234.6 | -2.6                        | +/- 9.00           |

| DENSITY CALIPER SHOP CALIBRATION |                            |                             |                    |
|----------------------------------|----------------------------|-----------------------------|--------------------|
| Tool Name:                       | SDLT - 10685803            | Reference Calibration Date: | 03-Jul-14 11:59:44 |
| Engineer:                        | SUHAIL BISHTI              | Calibration Date:           | 03-Jul-14 12:06:11 |
| Software Version:                | WL INSITE R4.2.0 (Build 2) | Calibration Version:        | 1                  |
| Host Tool Name:                  | DSNT - 10755066            |                             |                    |

| CALIBRATION COEFFICIENTS |                |           |                            |
|--------------------------|----------------|-----------|----------------------------|
| Measurement              | Previous Value | New Value | Control Limit On New Value |
| Pad Offset               | -4246.07       | -4543.01  | -7000.00 - -1000.00        |
| Pad Gain                 | 0.0003683      | 0.0003897 | 0.000200 - 0.000600        |
| Arm Offset               | 2224.22        | 2222.42   | 5000.00 - 2000.00          |

|            |              |              |                            |
|------------|--------------|--------------|----------------------------|
| Arm Offset | -3884.20     | -3320.49     | -5000.00 - 3000.00         |
| Arm Gain   | 0.0005250    | 0.0004878    | 0.000300 - 0.000700        |
| Arm Power  | -0.000006017 | -0.000003337 | -0.000010000 - 0.000010000 |

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

| CALIBRATION RINGS |                                      |                            |        |                               |
|-------------------|--------------------------------------|----------------------------|--------|-------------------------------|
| Measurement       | Current Reading<br>(Previous Coeff.) | Calibrated<br>(New Coeff.) | Change | Control Limit On<br>New Value |
| PAD EXTENSION:    |                                      |                            |        |                               |
| Small Ring (in)   | 2.00                                 | 2.00                       | 0.00   | +/- 0.20                      |
| Medium Ring (in)  | 3.65                                 | 3.75                       | 0.10   | +/- 0.20                      |
| RING DIAMETER:    |                                      |                            |        |                               |
| Small Ring (in)   | 6.45                                 | 6.50                       | 0.05   | +/- 0.20                      |
| Medium Ring (in)  | 8.28                                 | 8.25                       | -0.03  | +/- 0.20                      |
| Large Ring (in)   | 14.93                                | 15.00                      | 0.07   | +/- 0.20                      |

| PASS/FAIL SUMMARY                     |        |
|---------------------------------------|--------|
| Calibration-Coefficients Range Check: | Passed |
| Ring-Measurement Check:               | Passed |

| PASS/FAIL SUMMARY                     |        |
|---------------------------------------|--------|
| Calibration-Coefficients Range Check: | Passed |

SDLT CALIPER FIELD CALIBRATION

|                   |                            |                             |                    |
|-------------------|----------------------------|-----------------------------|--------------------|
| Tool Name:        | SDLT - 10685803            | Reference Calibration Date: | 03-Jul-14 12:06:11 |
| Engineer:         | SHELDON INGERSOLL          | Calibration Date:           | 12-Jul-14 07:30:41 |
| Software Version: | WL INSITE R4.2.0 (Build 2) | Calibration Version:        | 1                  |

| MEASURED CALIPER VALUES |      |       |        |                               |
|-------------------------|------|-------|--------|-------------------------------|
| Measurement             | Shop | Field | Change | Control Limit On<br>New Value |
| Pad Extension           | 3.75 | 3.85  | 0.10   | +/- 0.10                      |
| Ring Diameter           | 8.25 | 8.18  | -0.07  | +/- 0.15                      |

| PASS/FAIL SUMMARY    |        |
|----------------------|--------|
| Pad Extension Check: | Passed |
| Diameter Check:      | Passed |

MICRO LOG SHOP CALIBRATION

|                   |                            |                             |                    |
|-------------------|----------------------------|-----------------------------|--------------------|
| Tool Name:        | Microlog Pad - 10685803    | Reference Calibration Date: | 01-Jun-14 12:17:22 |
| Engineer:         | SUHAIL BISHTI              | Calibration Date:           | 03-Jul-14 12:17:04 |
| Software Version: | WL INSITE R4.2.0 (Build 2) | Calibration Version:        | 1                  |
| Host Tool Name:   | DSNT - 10755066            |                             |                    |

| CALIBRATION COEFFICIENT SUMMARY |                  |            |                   |            |       |
|---------------------------------|------------------|------------|-------------------|------------|-------|
| Measurement                     | Micro Log Normal |            | Micro Log Lateral |            | Units |
|                                 | Measured         | Calibrated | Measured          | Calibrated |       |
| Tool Zero                       | -0.08            | -0.09      | -0.01             | -0.02      | ohmm  |
| Calibration Point #1            | 0.01             | 0.00       | 0.01              | 0.00       | ohmm  |
| Calibration Point #2            | 19.98            | 20.00      | 20.02             | 20.00      | ohmm  |
| Internal Reference              | 19.90            | 19.92      | 20.01             | 19.99      | ohmm  |

| Measurement          | Micro Log Normal<br>Tool Value | Micro Log Lateral<br>Tool Value | Units |
|----------------------|--------------------------------|---------------------------------|-------|
| Tool Zero            | -0.13                          | 0.24                            | V     |
| Calibration Point #1 | 23.96                          | 5.91                            | V     |



|                                                                                          |                            |         |                             |                          |           |       |
|------------------------------------------------------------------------------------------|----------------------------|---------|-----------------------------|--------------------------|-----------|-------|
| Calibration Point #1                                                                     | 23.90                      | 5307.47 | 6883.03                     | V                        |           |       |
| Calibration Point #2                                                                     |                            | 5286.60 | 6880.94                     | V                        |           |       |
| Internal Reference                                                                       |                            |         |                             |                          |           |       |
| MICRO LOG FIELD CHECK                                                                    |                            |         |                             |                          |           |       |
| Tool Name:                                                                               | Microlog Pad - 10685803    |         | Reference Calibration Date: | 03-Jul-14 12:17:04       |           |       |
| Engineer:                                                                                | SHELDON INGERSOLL          |         | Calibration Date:           | 12-Jul-14 07:29:00       |           |       |
| Software Version:                                                                        | WL INSITE R4.2.0 (Build 2) |         | Calibration Version:        | 1                        |           |       |
| Measurement                                                                              | Micro Log Normal           |         | Micro Log Lateral           |                          |           |       |
|                                                                                          | Shop                       | Field   | Shop                        | Field                    | Units     |       |
| Tool Zero                                                                                | -0.09                      | -0.09   | -0.02                       | 0.00                     | ohmm      |       |
| Internal Reference                                                                       | 19.92                      | 19.92   | 19.99                       | 19.99                    | ohmm      |       |
| Summary                                                                                  |                            |         |                             |                          |           |       |
| Signal                                                                                   | Shop                       | Field   | Difference                  | Tolerance                |           |       |
| Microlog Normal                                                                          | 19.92                      | 19.92   | 0.00                        | +/- 0.80                 |           |       |
| Microlog Lateral                                                                         | 19.99                      | 19.99   | 0.00                        | +/- 0.80                 |           |       |
| CALIBRATION SUMMARY                                                                      |                            |         |                             |                          |           |       |
| Sensor                                                                                   | Shop                       | Field   | Post                        | Difference               | Tolerance | Units |
| GTET-10748374                                                                            |                            |         |                             |                          |           |       |
| Gamma Ray Calibrator                                                                     | 232.0                      | 234.6   | -----                       | -2.6                     | +/- 9.00  | api   |
| SDLT-10685803                                                                            |                            |         |                             |                          |           |       |
| Pad Extension                                                                            | 3.75                       | 3.85    | -----                       | -0.10                    | +/-0.10   | in    |
| Ring Diameter                                                                            | 8.25                       | 8.18    | -----                       | 0.07                     | +/-0.15   | in    |
| Microlog Pad-10685803                                                                    |                            |         |                             |                          |           |       |
| MicroLog Normal                                                                          | 19.92                      | 19.92   | -----                       | 0.00                     | +/-0.80   | ohmm  |
| MicroLog Lateral                                                                         | 19.99                      | 19.99   | -----                       | 0.00                     | +/-0.80   | ohmm  |
| Data: HYLBOM_A-6I0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BN006 12-Jul-14 12:57 Up @5048.0f |                            |         |                             | Date: 12-Jul-14 14:08:14 |           |       |

| HALLIBURTON                      |                              |                   |  |            |             |                    |
|----------------------------------|------------------------------|-------------------|--|------------|-------------|--------------------|
| INPUTS, DELAYS AND FILTERS TABLE |                              |                   |  |            |             |                    |
| Mnemonic                         |                              | Input Description |  | Delay (ft) | Filter Type | Filter Length (ft) |
|                                  |                              | Depth Panel       |  |            |             |                    |
| TENS                             | Tension                      |                   |  | 0.00       | NO          |                    |
|                                  |                              | Rwa / CrossPlot   |  |            |             |                    |
| TPUL                             | Tension Pull                 |                   |  | 80.04      | NO          |                    |
| BS                               | Bit Size                     |                   |  | 80.04      | NO          |                    |
| HDIA                             | Measured Hole Diameter       |                   |  | 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 |
| HDIA       | Measured Hole Diameter                                  | 0.00  | NO  |               |
| 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  |               |
| HDIA       | Measured Hole Diameter                                  | 0.00  | 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 Reference 12 KHz Real Signal      | 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  |       |
| HDIA | Measured Hole Diameter                        | 0.00  | 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                       |       |
| HDIA                                                                                    | Measured Hole Diameter | 0.00     | 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: HYLBOA-6\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BN\006 12-Jul-14 12:57 Up @5048.0f |                        |          | Date: 12-Jul-14 14:06:40 |       |
|                                                                                         |                        |          |                          |       |
| COMPANY                                                                                 | MERIT ENERGY           |          |                          |       |
| WELL                                                                                    | HYLBOM A-6             |          |                          |       |
| FIELD                                                                                   | REDWOOD                |          |                          |       |
| COUNTY                                                                                  | FINNEY                 | STATE    | KANSAS                   |       |
| HALLIBURTON                                                                             |                        | MICROLOG |                          |       |