

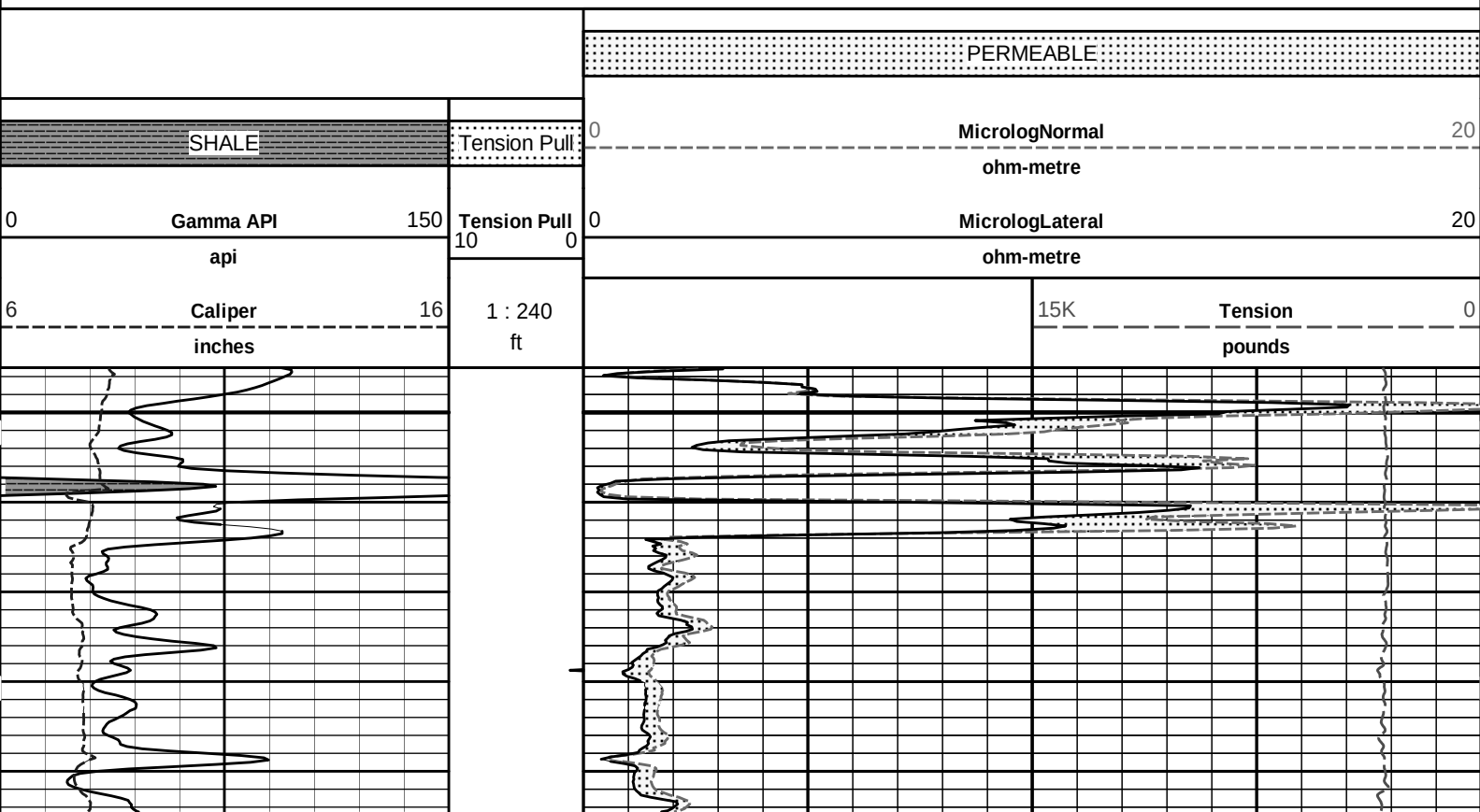
# HALLIBURTON

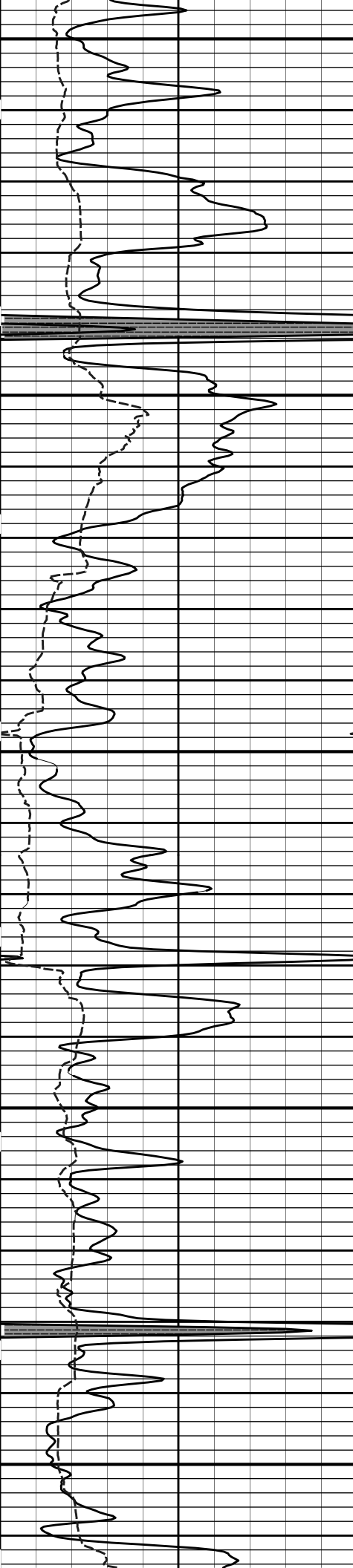
## MICROLOG

|                          |  |                         |  |                 |  |                                       |  |
|--------------------------|--|-------------------------|--|-----------------|--|---------------------------------------|--|
| COMPANY                  |  | OXY USA                 |  | COMPANY         |  | OXY USA                               |  |
| WELL                     |  | PRENTICE A-1            |  | WELL            |  | PRENTICE A-1                          |  |
| FIELD/BLOCK              |  | HUGOTON GAS AREA        |  | FIELD/BLOCK     |  | HUGOTON GAS AREA                      |  |
| STATE                    |  | KANSAS                  |  | STATE           |  | KANSAS                                |  |
| COUNTRY                  |  | USA                     |  | COUNTRY         |  | USA                                   |  |
| Permanent Datum          |  | GL                      |  | API No.         |  | 15093218850000                        |  |
| Log measured from        |  | KB                      |  | Location        |  | (SHL) 344' FNL & 2226' FEL            |  |
| Drilling measured from   |  | KB                      |  | Other Services: |  | DSN / SDL<br>MICROLOG<br>BSAT<br>ACRT |  |
| Date                     |  | 28-Mar-13               |  | Sect. 21        |  | Twp. 21S                              |  |
| Run No.                  |  | ONE                     |  | Rge.            |  | 35W                                   |  |
| Depth - Driller          |  | 4955.00 ft              |  | Elev. 3167.6 ft |  | Elev.: K.B. 3178.6 ft                 |  |
| Depth - Logger           |  | 4949.0 ft               |  | D.F.            |  | 3177.6 ft                             |  |
| Bottom - Logged Interval |  | 4905                    |  | G.L.            |  | 3167.6 ft                             |  |
| Top - Logged Interval    |  | 3850                    |  |                 |  |                                       |  |
| Casing - Driller         |  | 8.625 in @ 1958.0 ft    |  |                 |  |                                       |  |
| Casing - Logger          |  | 1960.0 ft               |  |                 |  |                                       |  |
| Bit Size                 |  | 7.875 in                |  |                 |  |                                       |  |
| Type Fluid in Hole       |  | WATER BASED             |  |                 |  |                                       |  |
| Density                  |  | 9.2 ppg                 |  | 32.00 s/qt      |  |                                       |  |
| PH                       |  | 10.50 pH                |  | 10.0 cp/m       |  |                                       |  |
| Source of Sample         |  | MUD PIT                 |  |                 |  |                                       |  |
| Rm @ Meas. Temperature   |  | 0.210 ohmm @ 60.00 degF |  |                 |  |                                       |  |
| Rmf @ Meas. Temperature  |  | 0.17 ohmm @ 60.00 degF  |  |                 |  |                                       |  |
| Rmc @ Meas. Temperature  |  | 0.240 ohmm @ 60.00 degF |  |                 |  |                                       |  |
| Source Rmf               |  | MEASURED                |  |                 |  |                                       |  |
| Rm @ BHT                 |  | 0.11 ohmm @ 117.0 degF  |  |                 |  |                                       |  |
| Time Since Circulation   |  | 17.0 hr                 |  |                 |  |                                       |  |
| Time on Bottom           |  | 28-Mar-13 09:56         |  |                 |  |                                       |  |
| Max. Rec. Temperature    |  | 117.0 degF @ 4949.0 ft  |  |                 |  |                                       |  |
| Equipment                |  | 10782954 LIBERAL        |  |                 |  |                                       |  |
| Recorded By              |  | S. INGERSOLL            |  |                 |  |                                       |  |
| Witnessed By             |  | G. FLAGG                |  |                 |  |                                       |  |

Fold here

|                                         |            |  |  |                                |          |                            |                 |                                         |                 |       |  |             |          |  |  |
|-----------------------------------------|------------|--|--|--------------------------------|----------|----------------------------|-----------------|-----------------------------------------|-----------------|-------|--|-------------|----------|--|--|
| Service Ticket No.: 900315654           |            |  |  | API Serial No.: 15093218850000 |          |                            |                 | 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.                       | @          |  |  | @                              |          | ONE                        | ACRT            | N/A                                     | CENT            |       |  |             |          |  |  |
| Rmc @ Meas. Temp.                       | @          |  |  | @                              |          |                            | 10929776        |                                         |                 |       |  |             |          |  |  |
| Source Rmf                              | Rmc        |  |  |                                |          |                            |                 |                                         |                 |       |  |             |          |  |  |
| Rm @ BHT                                | @          |  |  | @                              |          |                            |                 |                                         |                 |       |  |             |          |  |  |
| Rmf @ BHT                               | @          |  |  | @                              |          |                            |                 |                                         |                 |       |  |             |          |  |  |
| Rmc @ BHT                               | @          |  |  | @                              |          |                            |                 |                                         |                 |       |  |             |          |  |  |
| EQUIPMENT DATA                          |            |  |  |                                |          |                            |                 |                                         |                 |       |  |             |          |  |  |
| GAMMA                                   |            |  |  | ACOUSTIC                       |          |                            |                 | DENSITY                                 |                 |       |  | NEUTRON     |          |  |  |
| Run No.                                 | ONE        |  |  | Run No.                        | ONE      |                            |                 | Run No.                                 | ONE             |       |  | Run No.     | ONE      |  |  |
| Serial No.                              | 10748374   |  |  | Serial No.                     | 10747684 |                            |                 | Serial No.                              | 10673803        |       |  | Serial No.  | 10735145 |  |  |
| Model No.                               | GTET       |  |  | Model No.                      | BSAT     |                            |                 | Model No.                               | SDLT            |       |  | Model No.   | DSNT     |  |  |
| Diameter                                | 3.625"     |  |  | No. of Cent.                   | 2        |                            |                 | Diameter                                | 5.3"            |       |  | Diameter    | 3.625"   |  |  |
| Detector Model No.                      | T-102      |  |  | Spacing                        | .5'      |                            |                 | Log Type                                | GAM-GAM         |       |  | Log Type    | NEU-NEU  |  |  |
| Type                                    | SCINT      |  |  |                                |          |                            |                 | Source Type                             | CS-137          |       |  | Source Type | AM-241BE |  |  |
| Length                                  | 8"         |  |  | LSA [Y/N]                      |          |                            |                 | Serial No.                              | 5073GW          |       |  | Serial No.  | DSN-436  |  |  |
| Distance to Source                      | N/A        |  |  | FWDA [Y/N]                     |          |                            |                 | Strength                                | 1.5 CI          |       |  | Strength    | 15 CI    |  |  |
| LOGGING DATA                            |            |  |  |                                |          |                            |                 |                                         |                 |       |  |             |          |  |  |

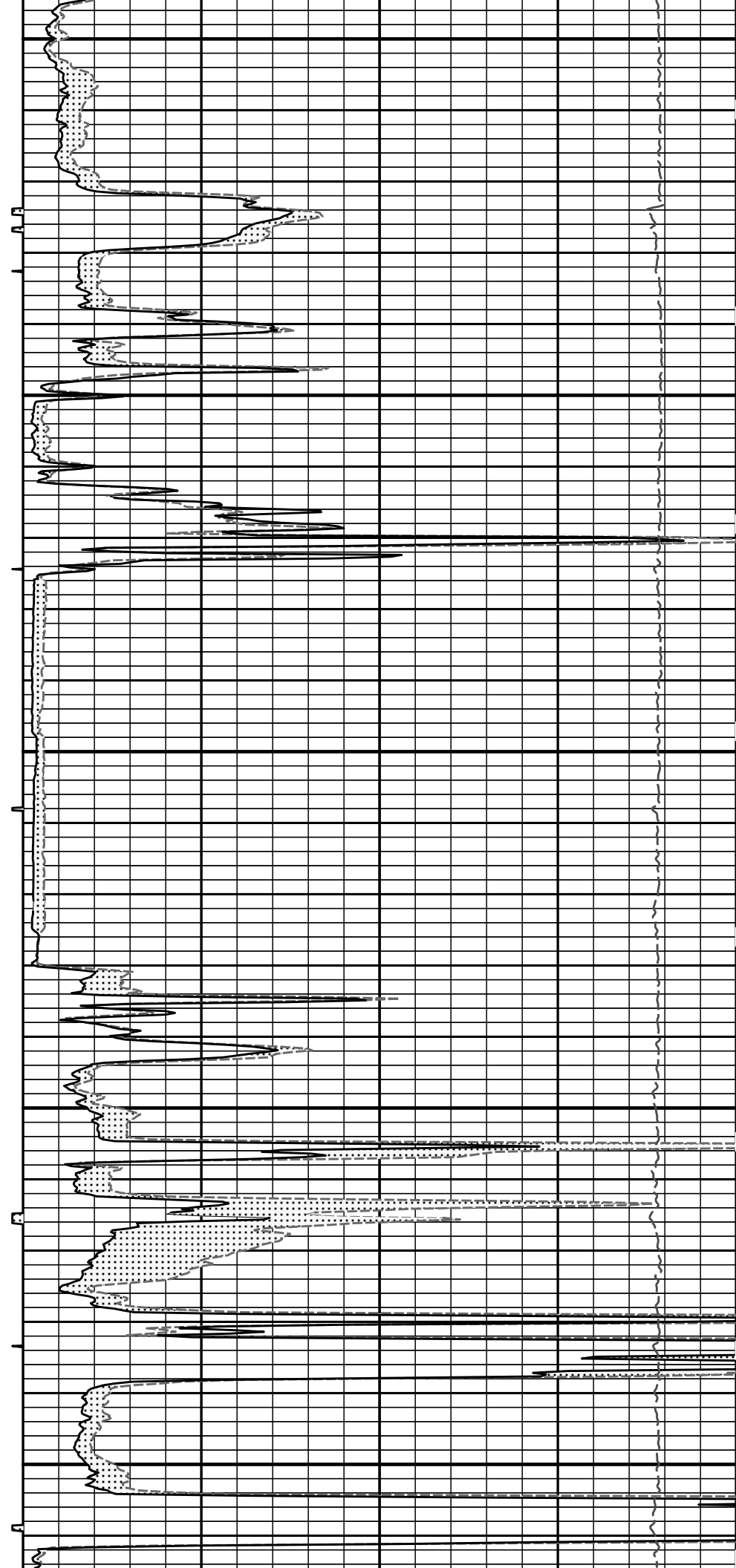


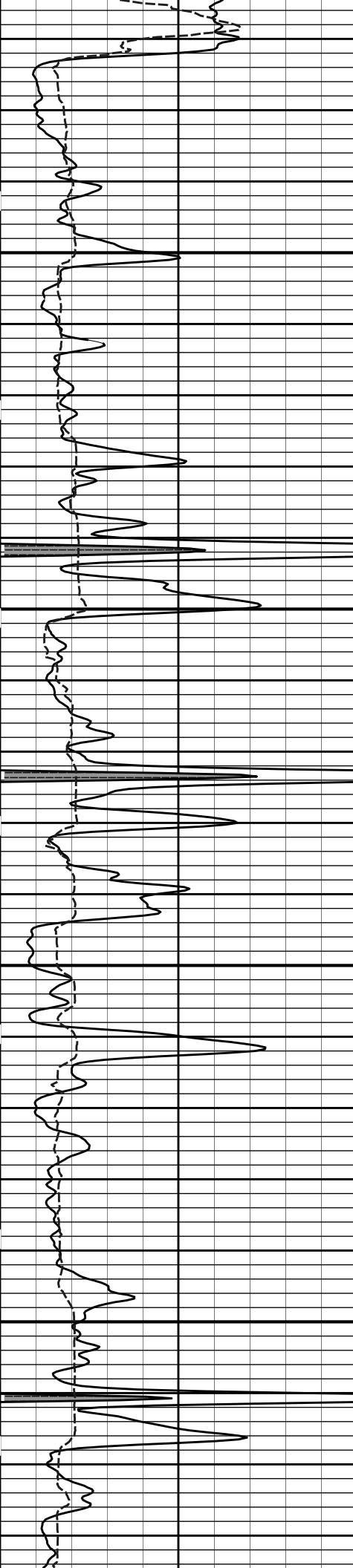


3900

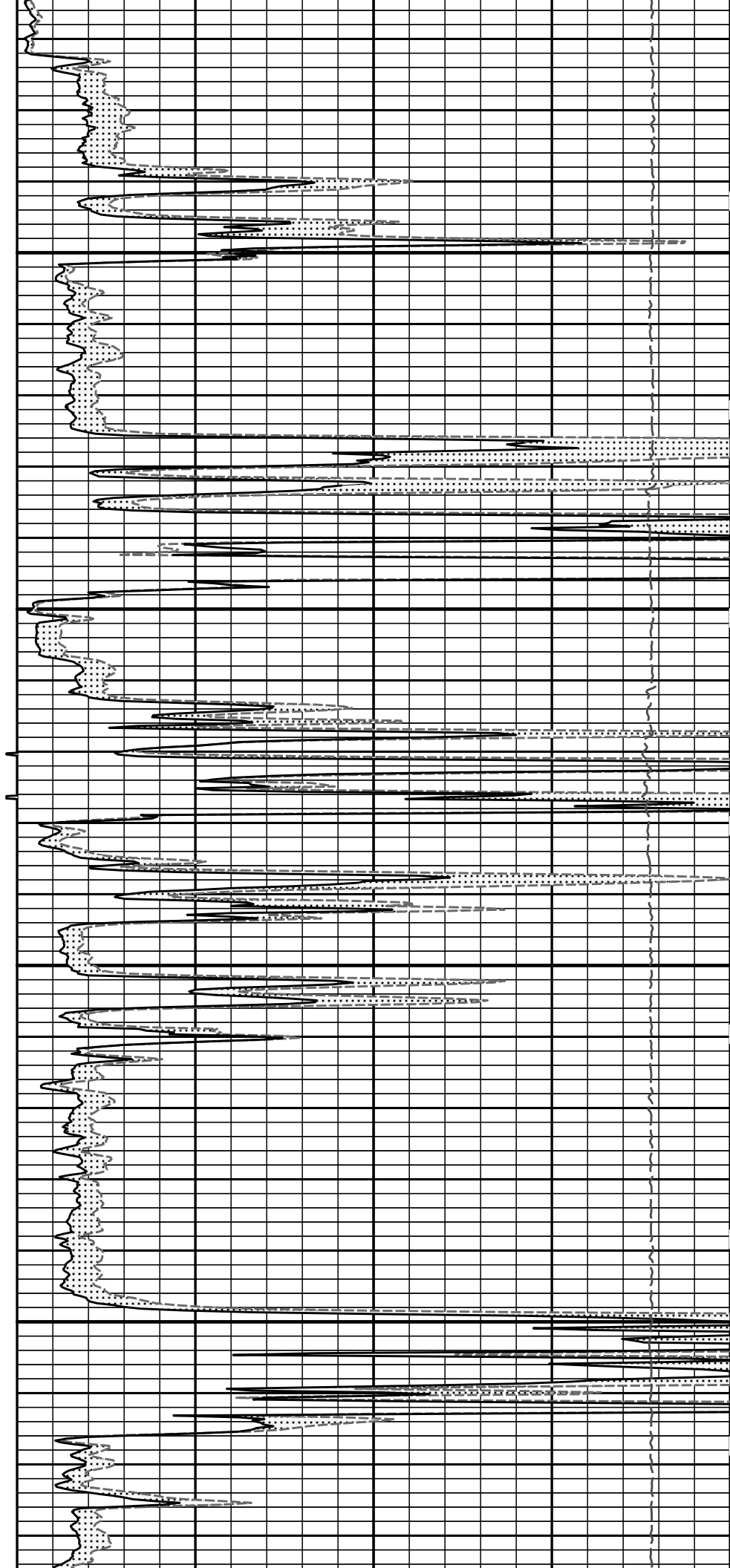
4000

4100

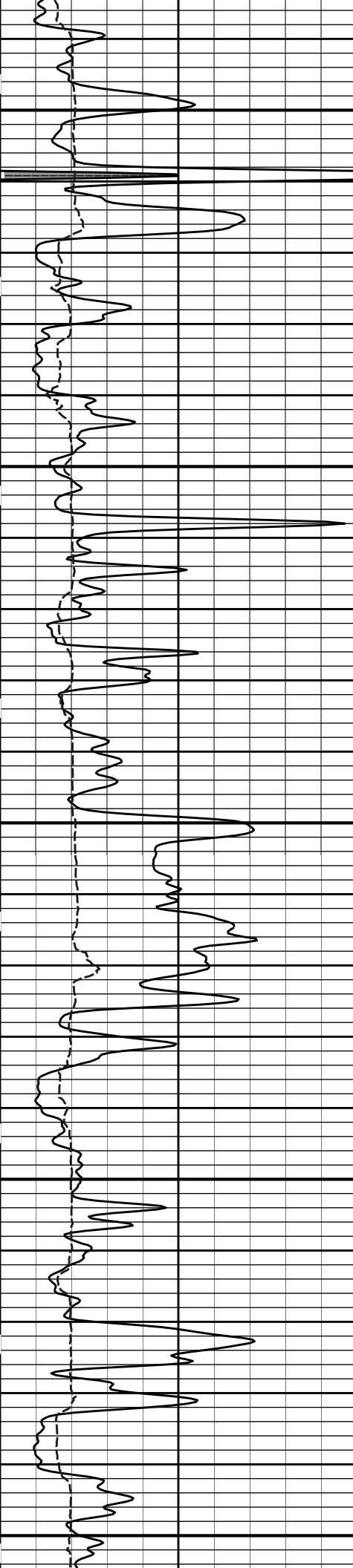




4200

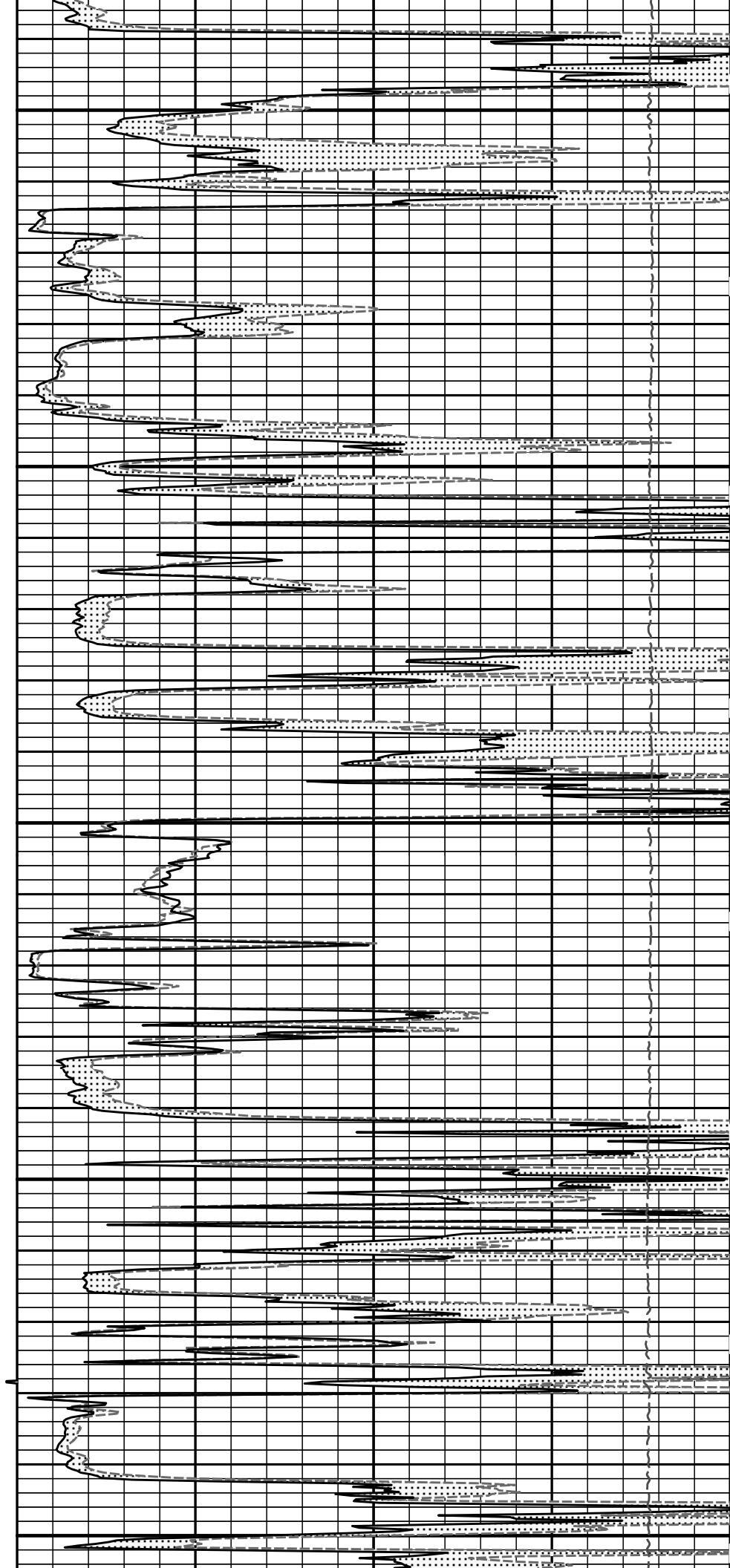


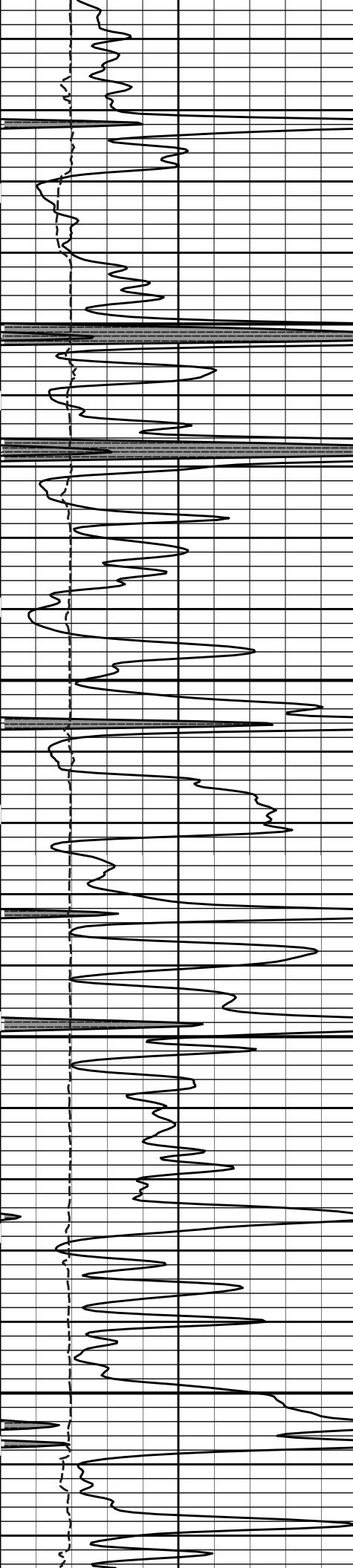
4300



4400

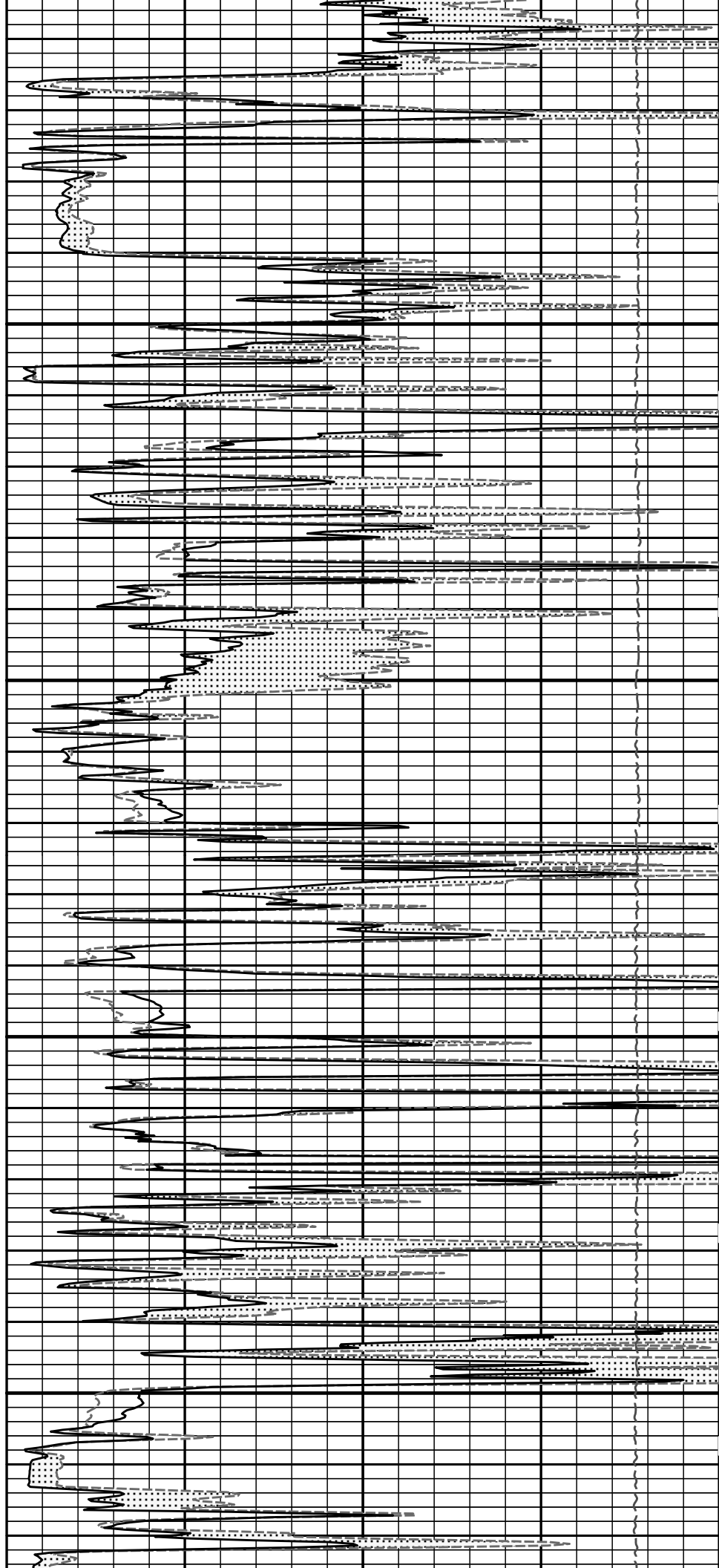
4500

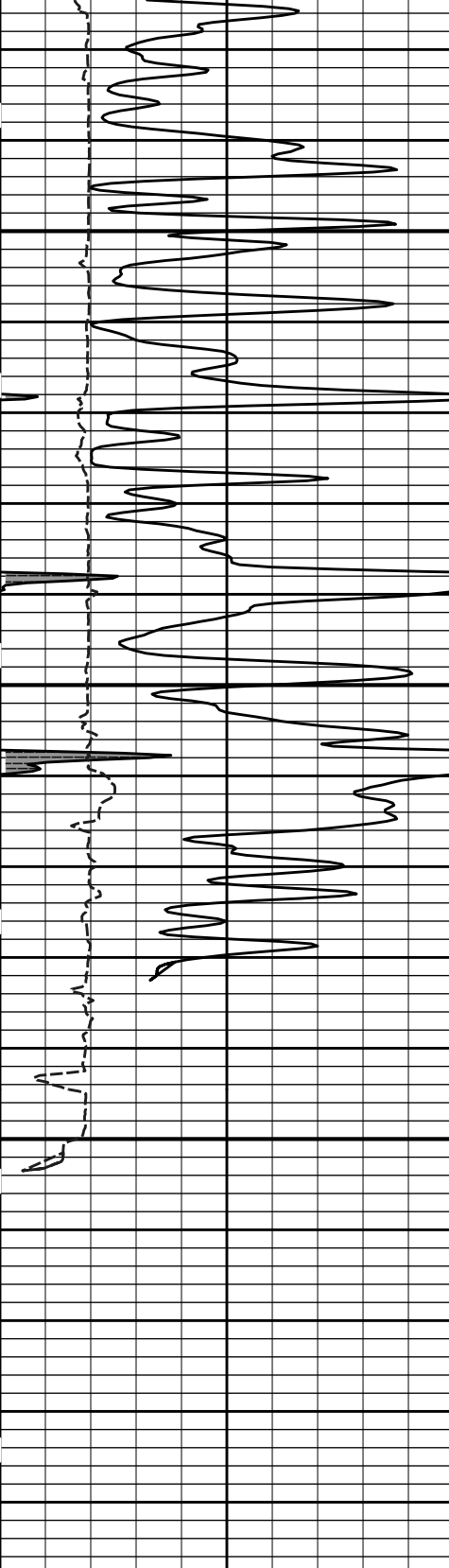




4600

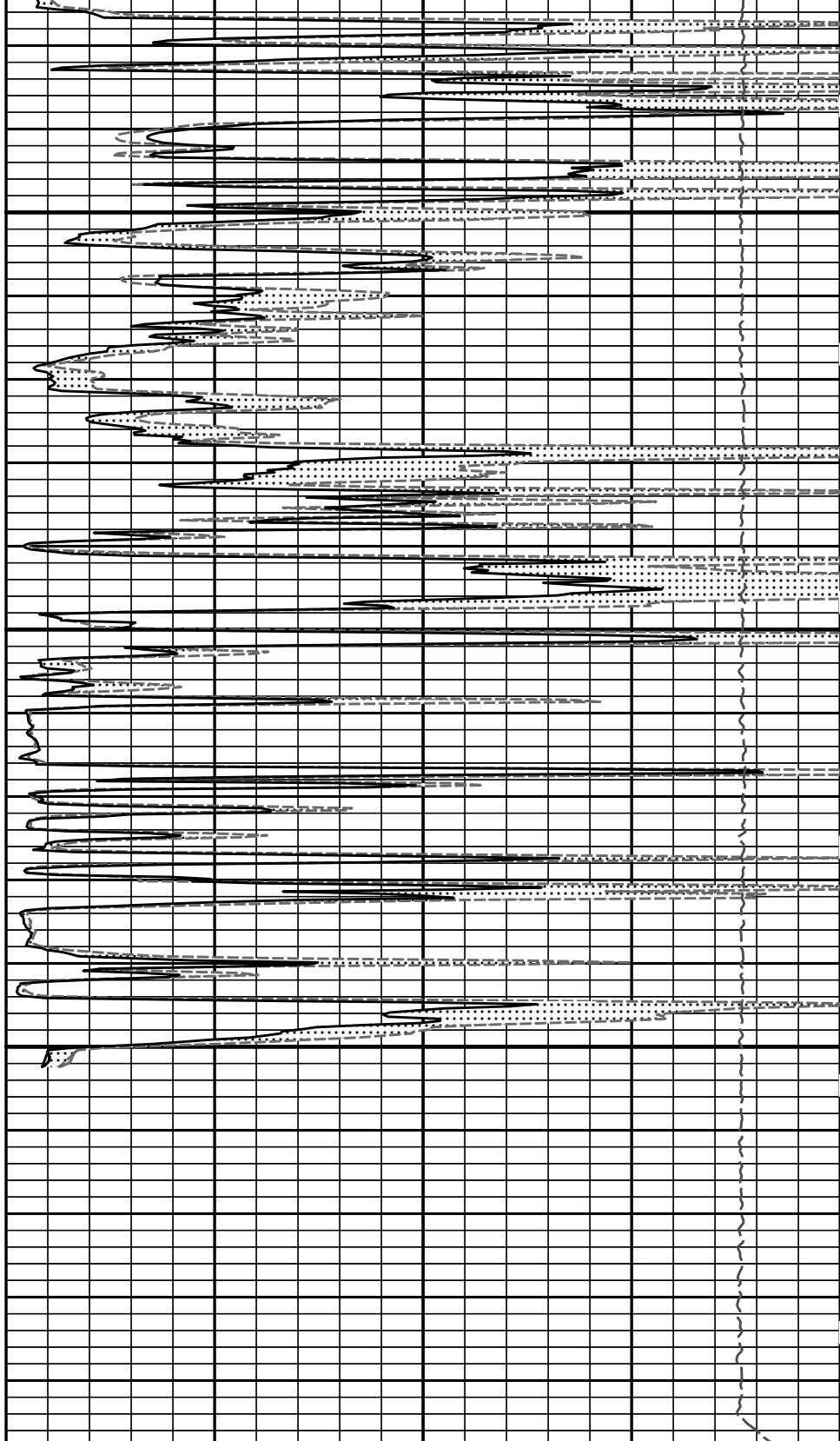
4700





4800

4900



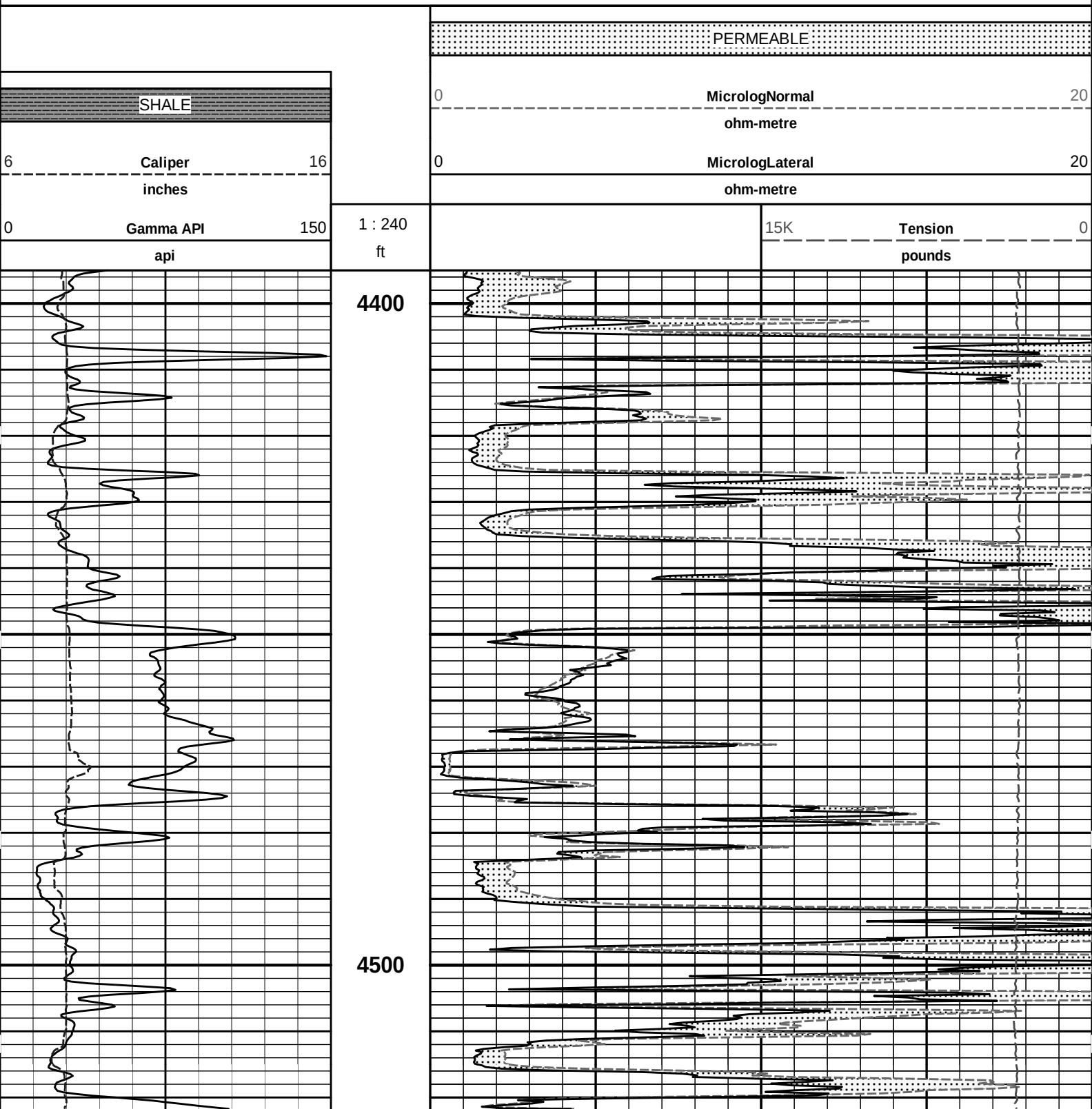
|   |           |     |              |     |                 |    |
|---|-----------|-----|--------------|-----|-----------------|----|
| 6 | Caliper   | 16  | 1 : 240      | 15K | Tension         | 0  |
|   | inches    |     | ft           |     | pounds          |    |
| 0 | Gamma API | 150 | Tension Pull | 0   | MicrologLateral | 20 |
|   | api       |     | 10           |     | ohm-metre       |    |
|   | SHALE     |     | Tension Pull | 0   | MicrologNormal  | 20 |
|   |           |     |              |     | ohm-metre       |    |
|   |           |     |              |     | PERMEABLE       |    |

# 5 INCH MAIN LOG

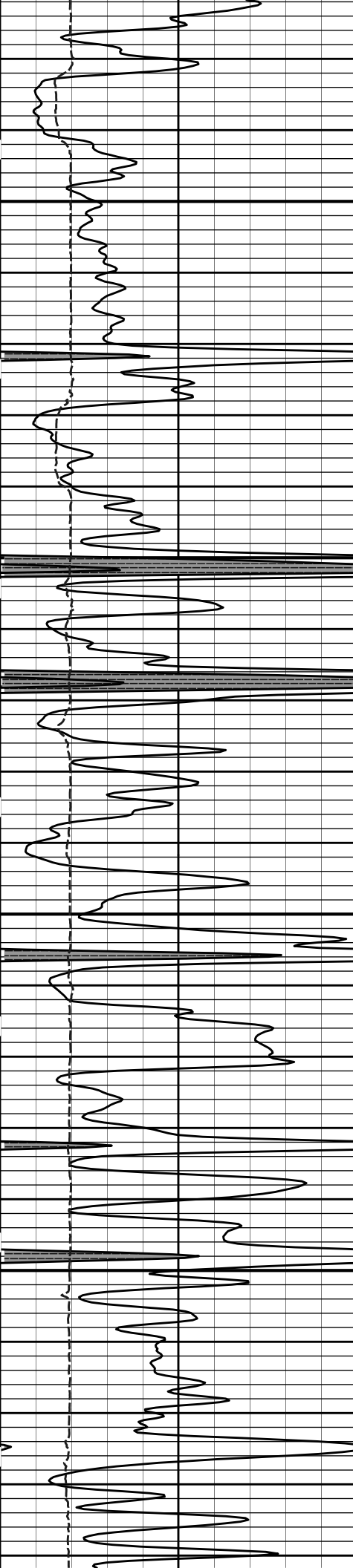
HALLIBURTON

Plot Time: 28-Mar-13 12:18:34  
Plot Range: 4395 ft to 4949.17 ft  
Data: PRENTICE\_A-1\\Well Based\\REPEAT\\  
Plot File: \\-LOCAL-\\PRENTICE\_A-1\\Well Based\\MICROLOG\\Microlog\_IQ\_5\_rep\_lib

## REPEAT SECTION

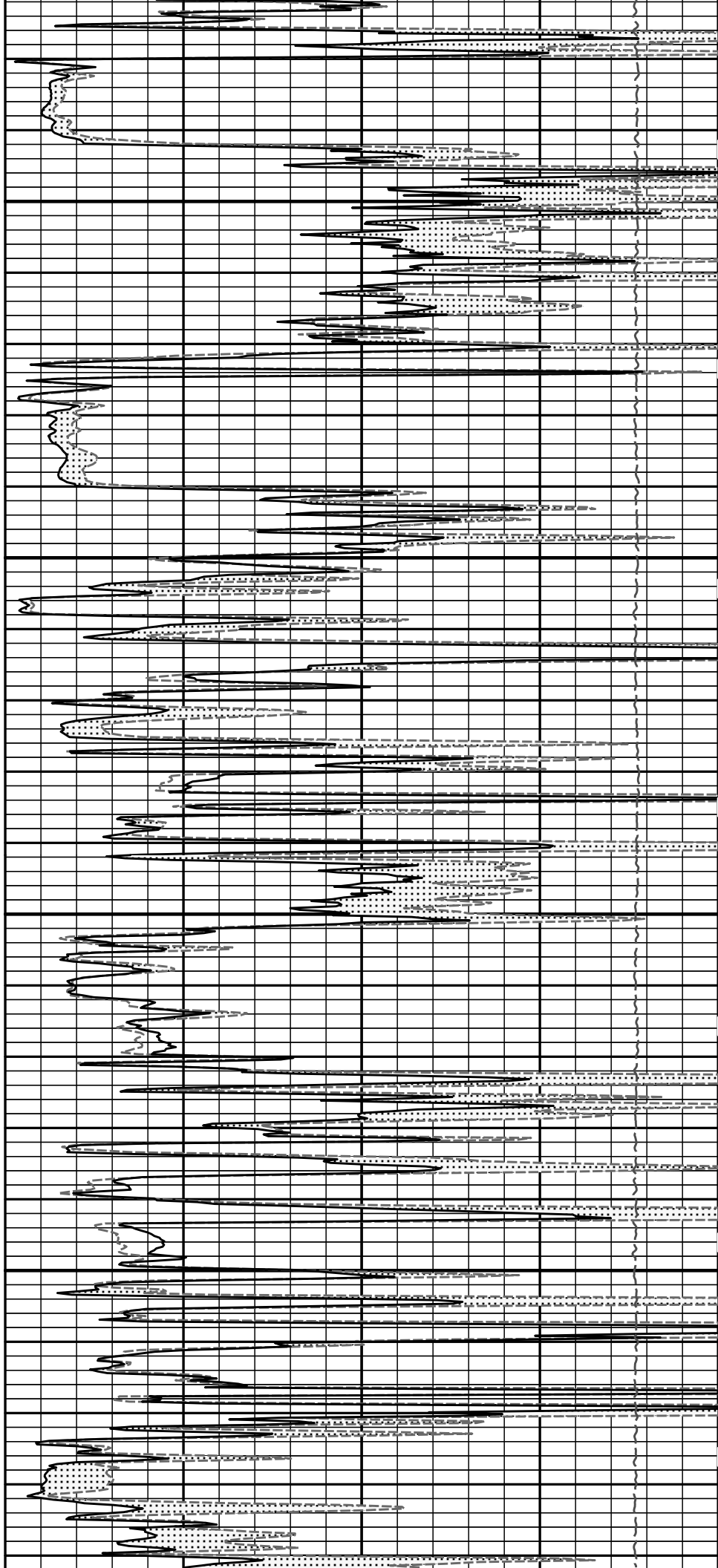


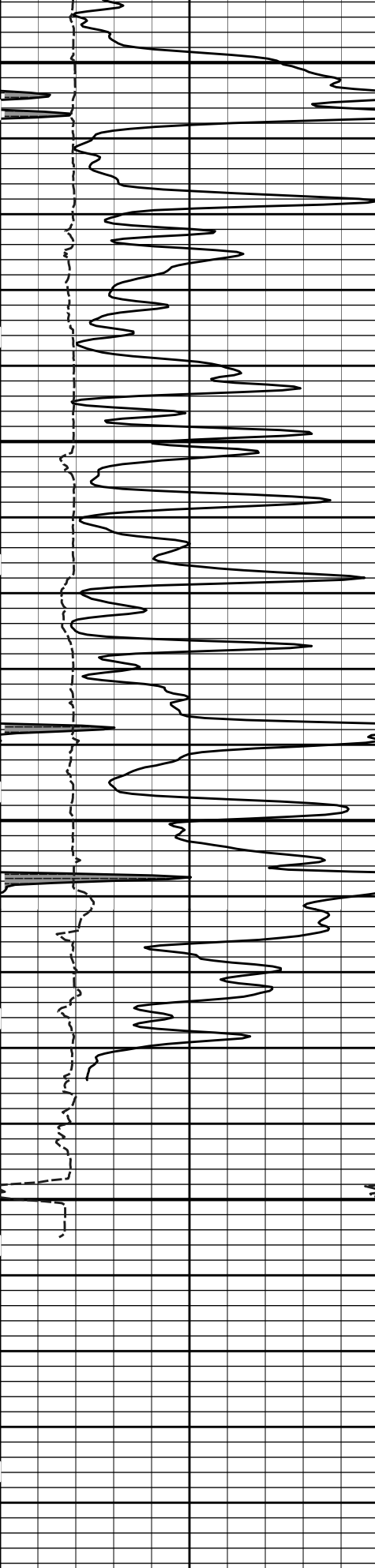




4600

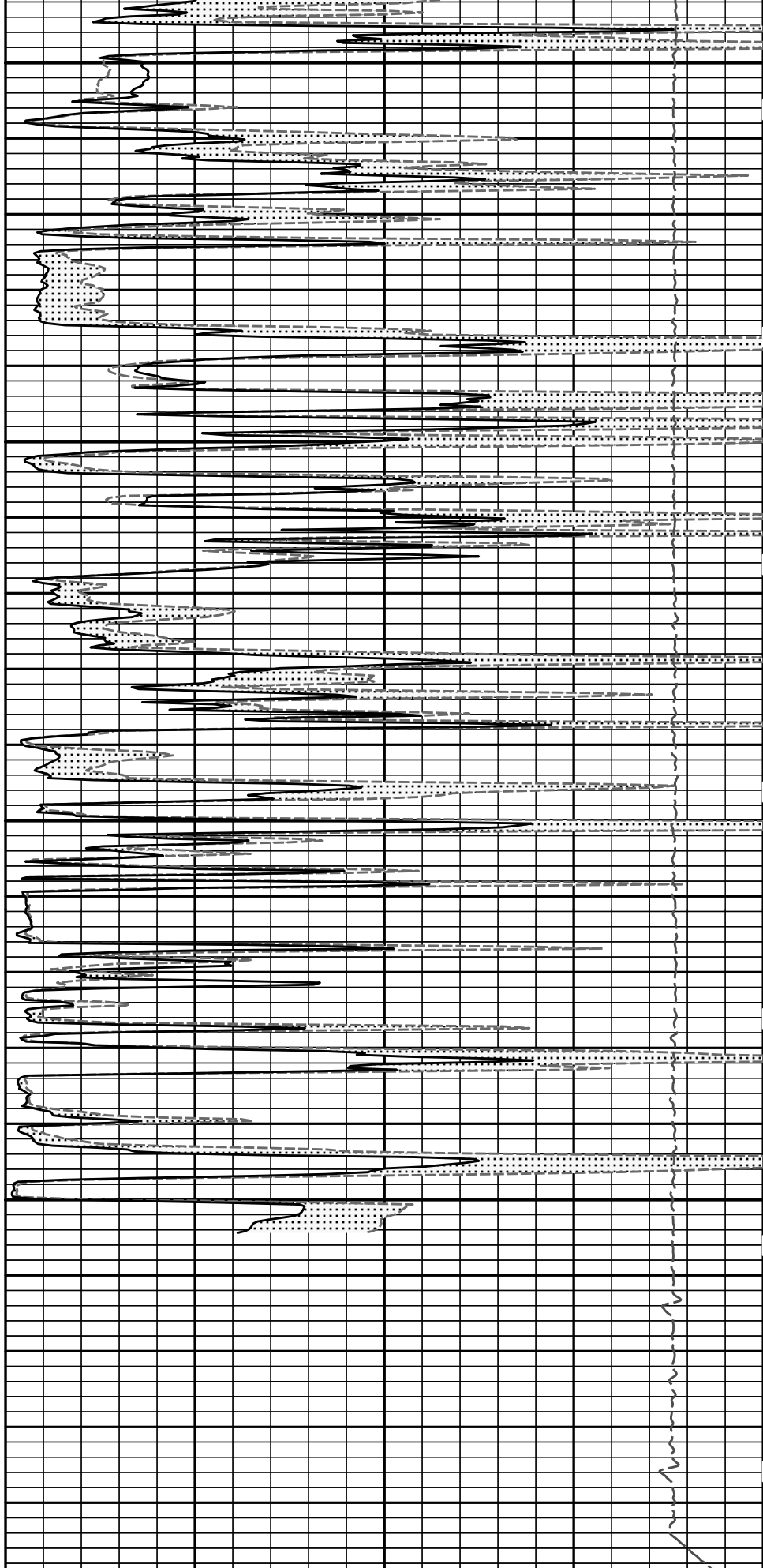
4700





4800

4900



|         |    |   |                 |    |
|---------|----|---|-----------------|----|
| Caliper | 16 | 0 | MicrologLateral | 20 |
| inches  |    |   | ohm-metre       |    |
| SHALE   |    | 0 | MicrologNormal  | 20 |
|         |    |   | ohm-metre       |    |
|         |    |   | PERMEABLE       |    |

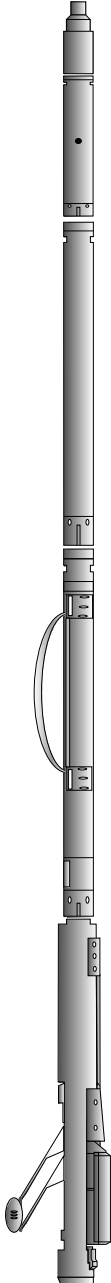
HALLIBURTON

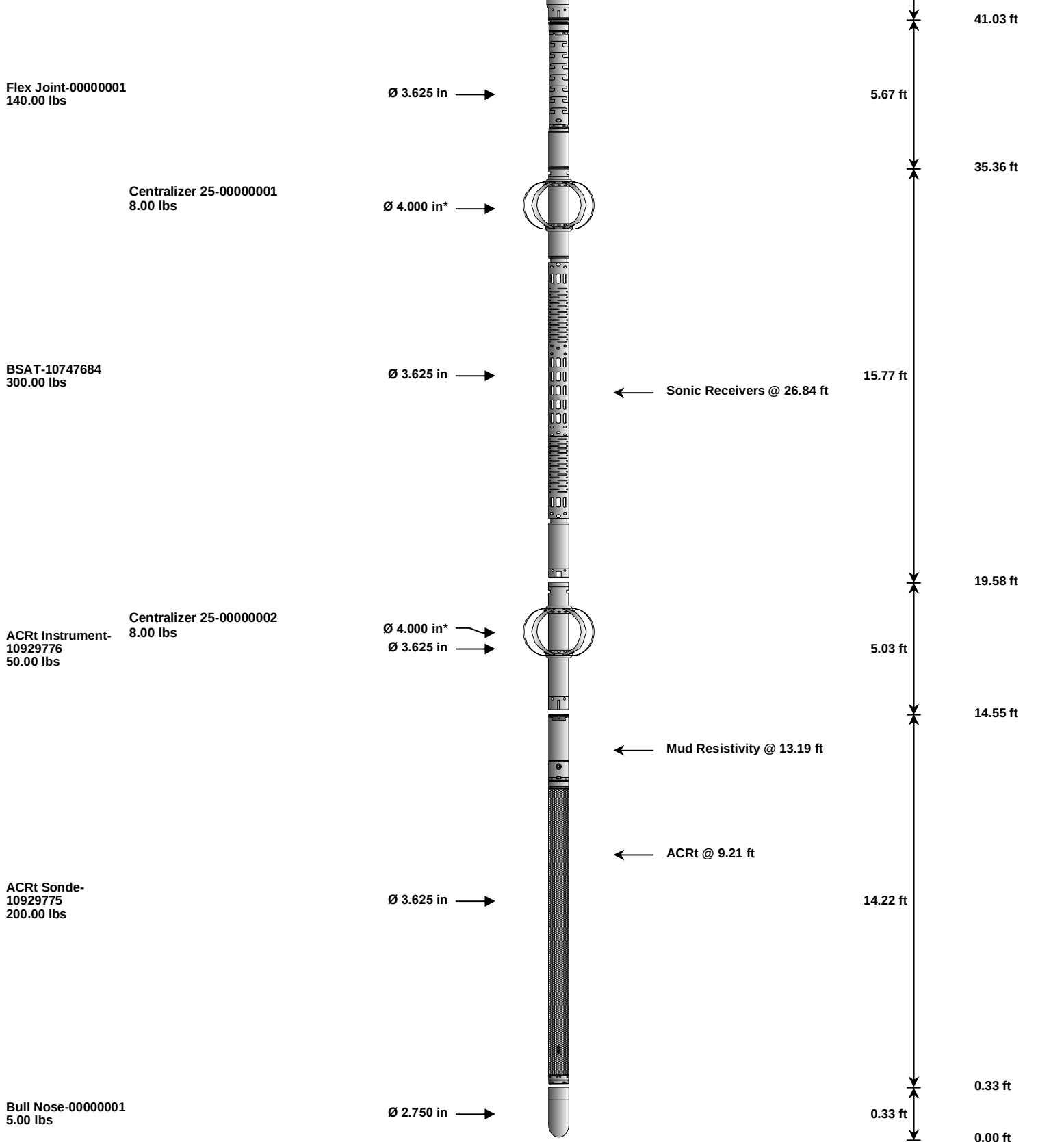
Plot Time: 28-Mar-13 12:18:37  
 Plot Range: 4395 ft to 4949.17 ft  
 Data: PRENTICE\_A-1\Well Based\REPEAT\  
 Plot File: \\-LOCAL-\\PRENTICE\_A-1\Well Based\MICROLOG\Microlog\_IQ\_5\_rep\_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

| Description                      | Overbody Description                                                | O.D.                                           | Diagram                                                                            | Sensors @ Delays                                                | Length   | Accumulated Length |
|----------------------------------|---------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------|--------------------|
| Cable Head-12345678<br>30.00 lbs |                                                                     | Ø 3.625 in →                                   |  |                                                                 | 1.92 ft  | 75.71 ft           |
| SP Sub-12345678<br>60.00 lbs     |                                                                     | Ø 3.625 in →                                   |                                                                                    | ← SP @ 72.01 ft                                                 | 3.74 ft  | 73.79 ft           |
| GTET-10748374<br>165.00 lbs      |                                                                     | Ø 3.625 in →                                   |                                                                                    | ← GammaRay @ 63.99 ft                                           | 8.52 ft  | 70.05 ft           |
| DSNT-10735145<br>174.00 lbs      | DSN Decentralizer-10735145<br>6.60 lbs                              | Ø 5.000 in* →<br>Ø 3.625 in →                  |                                                                                    | ← DSN Far @ 54.59 ft<br>← DSN Near @ 53.84 ft                   | 9.69 ft  | 61.53 ft           |
| SDLT-10673803<br>360.00 lbs      | SDLT Pad-10673790<br>65.00 lbs<br>Microlog Pad-10673803<br>8.00 lbs | Ø 4.500 in →<br>Ø 4.750 in* →<br>Ø 4.750 in* → |                                                                                    | Microlog @ 44.03 ft<br>SDL Caliper @ 43.84 ft<br>SDL @ 43.83 ft | 10.81 ft | 51.84 ft           |



| Mnemonic |                               | Tool Name | Serial Number | Weight (lbs) | Length (ft) | Accumulated Length (ft) | Max.Log. Speed (fpm) |
|----------|-------------------------------|-----------|---------------|--------------|-------------|-------------------------|----------------------|
| CH       | Standard OH Cable Head        |           | 12345678      | 30.00        | 1.92        | 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           |           | 10735145      | 174.00       | 9.69        | 51.84                   | 60.00                |
| DCNT     | DSN Decentralizer             |           | 10735145      | 6.60         | 5.13        | 55.17                   | 300.00               |
| SDLT     | Spectral Density Tool         |           | 10673803      | 360.00       | 10.81       | 41.03                   | 60.00                |
| MICP     | Microlog Pad                  |           | 10673803      | 8.00         | 1.00        | 43.53                   | 60.00                |
| SDLP     | Density Insite Pad            |           | 10673790      | 65.00        | 2.55        | 43.24                   | 60.00                |
| FLEX     | Flex Joint                    |           | 00000001      | 140.00       | 5.67        | 35.36                   | 300.00               |
| BSAT     | Borehole Sonic Array Tool     |           | 10747684      | 300.00       | 15.77       | 19.58                   | 60.00                |
| ORCEN    | Centralizer - 25 in. Overbody |           | 00000001      | 8.00         | 2.08        | 32.82                   | 300.00               |

|                                                                |                                                       |          |                                                         |       |       |        |        |
|----------------------------------------------------------------|-------------------------------------------------------|----------|---------------------------------------------------------|-------|-------|--------|--------|
| OBCEN                                                          | Centralizer - 25 in. Overbody                         | 00000001 | 8.00                                                    | 2.08  | 32.82 | 300.00 |        |
| ACRt                                                           | Array Compensated True Resistivity Instrument Section | 10929776 | 50.00                                                   | 5.03  | 14.55 | 300.00 |        |
| OBCEN                                                          | Centralizer - 25 in. Overbody                         | 00000002 | 8.00                                                    | 2.08  | *     | 16.55  | 300.00 |
| ACRt                                                           | Array Compensated True Resistivity Sonde Section      | 10929775 | 200.00                                                  | 14.22 | 0.33  | 300.00 |        |
| BLNS                                                           | Bull Nose                                             | 00000001 | 5.00                                                    | 0.33  | 0.00  | 300.00 |        |
| Total                                                          |                                                       |          | 1,579.60                                                | 75.71 |       |        |        |
|                                                                |                                                       |          | * Not included in Total Length and Length Accumulation. |       |       |        |        |
| Data: PRENTICE_A-1\0002 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\IDLE |                                                       |          | Date: 28-Mar-13 08:34:10                                |       |       |        |        |

| 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                                              | 9.200      | 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                                                    | 0.500      | 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                                                   | 4955.00    | 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       |       |  |
|                   | 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            | DNOC     | DSN Offset (0.25 in. (0.25 in.) Depth) (0.25 in. (0.25 in.) Depth) | 0.250      | in    |  |

|                                                                                           |      |                                              |                 |                          |
|-------------------------------------------------------------------------------------------|------|----------------------------------------------|-----------------|--------------------------|
| 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                   | 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 Upr |                          |
| 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                     |
| BOTTOM                                                                                    |      |                                              |                 |                          |
| Data: PRENTICE_A-110002 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN1005 28-Mar-13 10:38 Up @4947.8f |      |                                              |                 | Date: 28-Mar-13 12:06:22 |

HALLIBURTON

CALIBRATION REPORT

| NATURAL GAMMA RAY TOOL SHOP CALIBRATION       |                            |                             |                    |
|-----------------------------------------------|----------------------------|-----------------------------|--------------------|
| Tool Name:                                    | GTET - 10748374            | Reference Calibration Date: | 17-Jan-13 13:03:23 |
| Engineer:                                     | THOMAS HYDE                | Calibration Date:           | 12-Mar-13 13:11:16 |
| Software Version:                             | WL INSITE R3.8.4 (Build 5) | Calibration Version:        | 1                  |
| Calibrator Source S/N: TB-185                 |                            |                             |                    |
| Calibrator API Reference:228.00 api           |                            |                             |                    |
| Equivalent Calibrator API Reference:232.0 api |                            |                             |                    |
| Measurement                                   | Measured                   | Calibrated                  | Units              |
| Background                                    | 43.5                       | 43.2                        | api                |
| Background + Calibrator                       | 277.4                      | 275.2                       | api                |
| Calibrator                                    | 233.9                      | 232.0                       | api                |

| NATURAL GAMMA RAY TOOL FIELD CALIBRATION |                 |                             |                    |
|------------------------------------------|-----------------|-----------------------------|--------------------|
| Tool Name:                               | GTET - 10748374 | Reference Calibration Date: | 12-Mar-13 13:11:16 |

|                                               |                            |                      |                    |           |
|-----------------------------------------------|----------------------------|----------------------|--------------------|-----------|
| Engineer:                                     | S. INGERSOLL               | Calibration Date:    | 27-Mar-13 23:33:12 |           |
| Software Version:                             | WL INSITE R3.8.4 (Build 5) | Calibration Version: | 1                  |           |
| Calibrator Source S/N: TB-185                 |                            |                      |                    |           |
| Calibrator API Reference:228.00 api           |                            |                      |                    |           |
| Equivalent Calibrator API Reference:232.0 api |                            |                      |                    |           |
| Field Verification                            |                            | Shop                 | Field              | Units     |
| Background                                    |                            | 43.2                 | 62.7               | api       |
| Background + Calibrator                       |                            | 275.2                | 292.2              | api       |
| Calibrator                                    |                            | 232.0                | 229.5              | api       |
| Shop                                          |                            | Field                | Difference         | Tolerance |
| 232.0                                         |                            | 229.5                | 2.5                | +/- 9.00  |

| Density Caliper Shop Calibration |                            |                             |                    |
|----------------------------------|----------------------------|-----------------------------|--------------------|
| Tool Name:                       | SDLT - 10673803            | Reference Calibration Date: | 12-Mar-13 13:14:02 |
| Engineer:                        | THOMAS HYDE                | Calibration Date:           | 12-Mar-13 13:18:16 |
| Software Version:                | WL INSITE R3.8.4 (Build 5) | Calibration Version:        | 1                  |
| Host Tool Name:                  | DSNT - 10735145            |                             |                    |

| CALIBRATION COEFFICIENTS                                                                     |                                   |                         |                            |                            |
|----------------------------------------------------------------------------------------------|-----------------------------------|-------------------------|----------------------------|----------------------------|
| Measurement                                                                                  | Previous Value                    | New Value               | Control Limit On New Value |                            |
| Pad Offset                                                                                   | -3713.67                          | -3673.34                | -7000.00 - -1000.00        |                            |
| Pad Gain                                                                                     | 0.0003799                         | 0.0003767               | 0.000200 - 0.000600        |                            |
| Arm Offset                                                                                   | -4381.70                          | -4510.72                | -5000.00 - 3000.00         |                            |
| Arm Gain                                                                                     | 0.0005135                         | 0.0005258               | 0.000300 - 0.000700        |                            |
| Arm Power                                                                                    | -0.000005109                      | -0.000005867            | -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 (Previous Coeff.) | Calibrated (New Coeff.) | Change                     | Control Limit On New Value |
| PAD EXTENSION:                                                                               |                                   |                         |                            |                            |
| Small Ring (in)                                                                              | 2.00                              | 2.00                    | 0.00                       | +/- 0.20                   |
| Medium Ring (in)                                                                             | 3.77                              | 3.75                    | -0.02                      | +/- 0.20                   |
| RING DIAMETER:                                                                               |                                   |                         |                            |                            |
| Small Ring (in)                                                                              | 6.51                              | 6.50                    | -0.01                      | +/- 0.20                   |
| Medium Ring (in)                                                                             | 8.23                              | 8.25                    | 0.02                       | +/- 0.20                   |
| Large Ring (in)                                                                              | 15.00                             | 15.00                   | 0.00                       | +/- 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 - 10673803            | Reference Calibration Date: | 12-Mar-13 13:18:16 |
| Engineer:                      | S. INGERSOLL               | Calibration Date:           | 27-Mar-13 23:38:49 |
| Software Version:              | WL INSITE R3.8.4 (Build 5) | Calibration Version:        | 1                  |

| Measured Caliper Values |      |       |        |                            |
|-------------------------|------|-------|--------|----------------------------|
| Measurement             | Shop | Field | Change | Control Limit On New Value |

|                      |  |           |      |        |          |
|----------------------|--|-----------|------|--------|----------|
|                      |  | New Value |      |        |          |
| Pad Extension        |  | 3.75      | 3.76 | 0.01   | +/- 0.10 |
| Ring Diameter        |  | 8.25      | 8.34 | 0.09   | +/- 0.15 |
|                      |  |           |      |        |          |
| PASS/FAIL SUMMARY    |  |           |      |        |          |
| Pad Extension Check: |  |           |      | Passed |          |
| Diameter Check:      |  |           |      | Passed |          |

|                            |                            |  |  |                             |                    |
|----------------------------|----------------------------|--|--|-----------------------------|--------------------|
| MICRO LOG SHOP CALIBRATION |                            |  |  |                             |                    |
| Tool Name:                 | Microlog Pad - 10673803    |  |  | Reference Calibration Date: | 09-Feb-13 15:20:52 |
| Engineer:                  | THOMAS HYDE                |  |  | Calibration Date:           | 12-Mar-13 13:26:40 |
| Software Version:          | WL INSITE R3.8.4 (Build 5) |  |  | Calibration Version:        | 1                  |
| Host Tool Name:            | DSNT - 10735145            |  |  |                             |                    |

|  |                                 |                             |            |                              |            |       |
|--|---------------------------------|-----------------------------|------------|------------------------------|------------|-------|
|  | CALIBRATION COEFFICIENT SUMMARY |                             |            |                              |            |       |
|  | Measurement                     | Micro Log Normal            |            | Micro Log Lateral            |            | Units |
|  |                                 | Measured                    | Calibrated | Measured                     | Calibrated |       |
|  | Tool Zero                       | 0.01                        | -0.06      | -0.01                        | -0.00      | ohmm  |
|  | Calibration Point #1            | 0.07                        | 0.00       | -0.01                        | 0.00       | ohmm  |
|  | Calibration Point #2            | 19.99                       | 20.00      | 19.99                        | 20.00      | ohmm  |
|  | Internal Reference              | 19.93                       | 19.94      | 19.99                        | 20.00      | ohmm  |
|  |                                 |                             |            |                              |            |       |
|  | Measurement                     | Micro Log Normal Tool Value |            | Micro Log Lateral Tool Value |            | Units |
|  |                                 |                             |            |                              |            |       |
|  | Tool Zero                       | 0.12                        |            | 0.28                         |            | V     |
|  | Calibration Point #1            | 16.70                       |            | 1.90                         |            | V     |
|  | Calibration Point #2            | 5378.32                     |            | 6994.54                      |            | V     |
|  | Internal Reference              | 5362.37                     |            | 6995.97                      |            | V     |

|                       |                            |  |  |                             |                    |
|-----------------------|----------------------------|--|--|-----------------------------|--------------------|
| MICRO LOG FIELD CHECK |                            |  |  |                             |                    |
| Tool Name:            | Microlog Pad - 10673803    |  |  | Reference Calibration Date: | 12-Mar-13 13:26:40 |
| Engineer:             | S. INGERSOLL               |  |  | Calibration Date:           | 27-Mar-13 23:39:49 |
| Software Version:     | WL INSITE R3.8.4 (Build 5) |  |  | Calibration Version:        | 1                  |

|  |                    |                  |       |                   |           |       |
|--|--------------------|------------------|-------|-------------------|-----------|-------|
|  | Measurement        | Micro Log Normal |       | Micro Log Lateral |           | Units |
|  |                    | Shop             | Field | Shop              | Field     |       |
|  | Tool Zero          | -0.06            | -0.06 | -0.00             | -0.01     | ohmm  |
|  | Internal Reference | 19.94            | 19.96 | 20.00             | 20.02     | ohmm  |
|  | Summary            |                  |       |                   |           |       |
|  | Signal             | Shop             | Field | Difference        | Tolerance |       |
|  | Microlog Normal    | 19.94            | 19.96 | -0.02             | +/- 0.80  |       |
|  | Microlog Lateral   | 20.00            | 20.02 | -0.02             | +/- 0.80  |       |

|                       |       |       |       |            |           |       |
|-----------------------|-------|-------|-------|------------|-----------|-------|
| CALIBRATION SUMMARY   |       |       |       |            |           |       |
| Sensor                | Shop  | Field | Post  | Difference | Tolerance | Units |
| GTET-10748374         |       |       |       |            |           |       |
| Gamma Ray Calibrator  | 232.0 | 229.5 | ----- | 2.5        | +/- 9.00  | api   |
| SDLT-10673803         |       |       |       |            |           |       |
| Pad Extension         | 3.75  | 3.76  | ----- | -0.01      | +/-0.10   | in    |
| Ring Diameter         | 8.25  | 8.34  | ----- | -0.09      | +/-0.15   | in    |
| Microlog Pad-10673803 |       |       |       |            |           |       |
| MicroLog Normal       | 19.94 | 19.96 | ----- | -0.02      | +/-0.80   | ohmm  |
| MicroLog Lateral      | 20.00 | 20.02 | ----- | -0.02      | +/-0.80   | ohmm  |



HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

| Mnemonic    | Input Description                                       | Delay (ft) | Filter Type | Filter Length (ft) |
|-------------|---------------------------------------------------------|------------|-------------|--------------------|
| Depth Panel |                                                         |            |             |                    |
| TENS        | Tension                                                 | 0.00       | NO          |                    |
| 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: PRENTICE_A-1I0002 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN005 28-Mar-13 10:38 Up @4947.8f |                  |       | Date: 28-Mar-13 12:05:58 |       |

|             |                  |          |     |
|-------------|------------------|----------|-----|
| COMPANY     | OXY USA          |          |     |
| WELL        | PRENTICE A-1     |          |     |
| FIELD       | HUGOTON GAS AREA |          |     |
| STATE       | KANSAS           | COUNTRY  | USA |
| HALLIBURTON |                  | MICROLOG |     |