

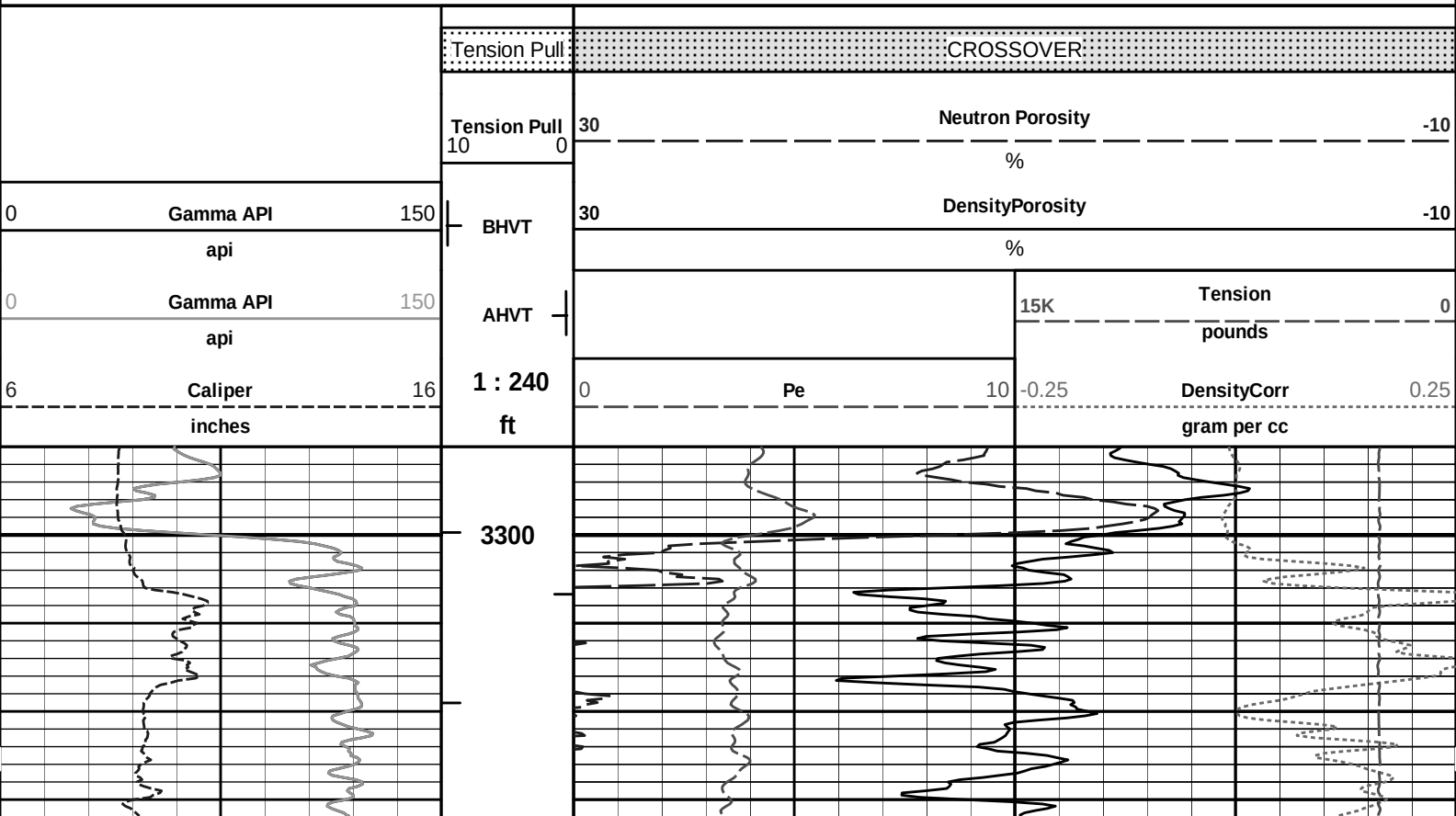
# HALLIBURTON

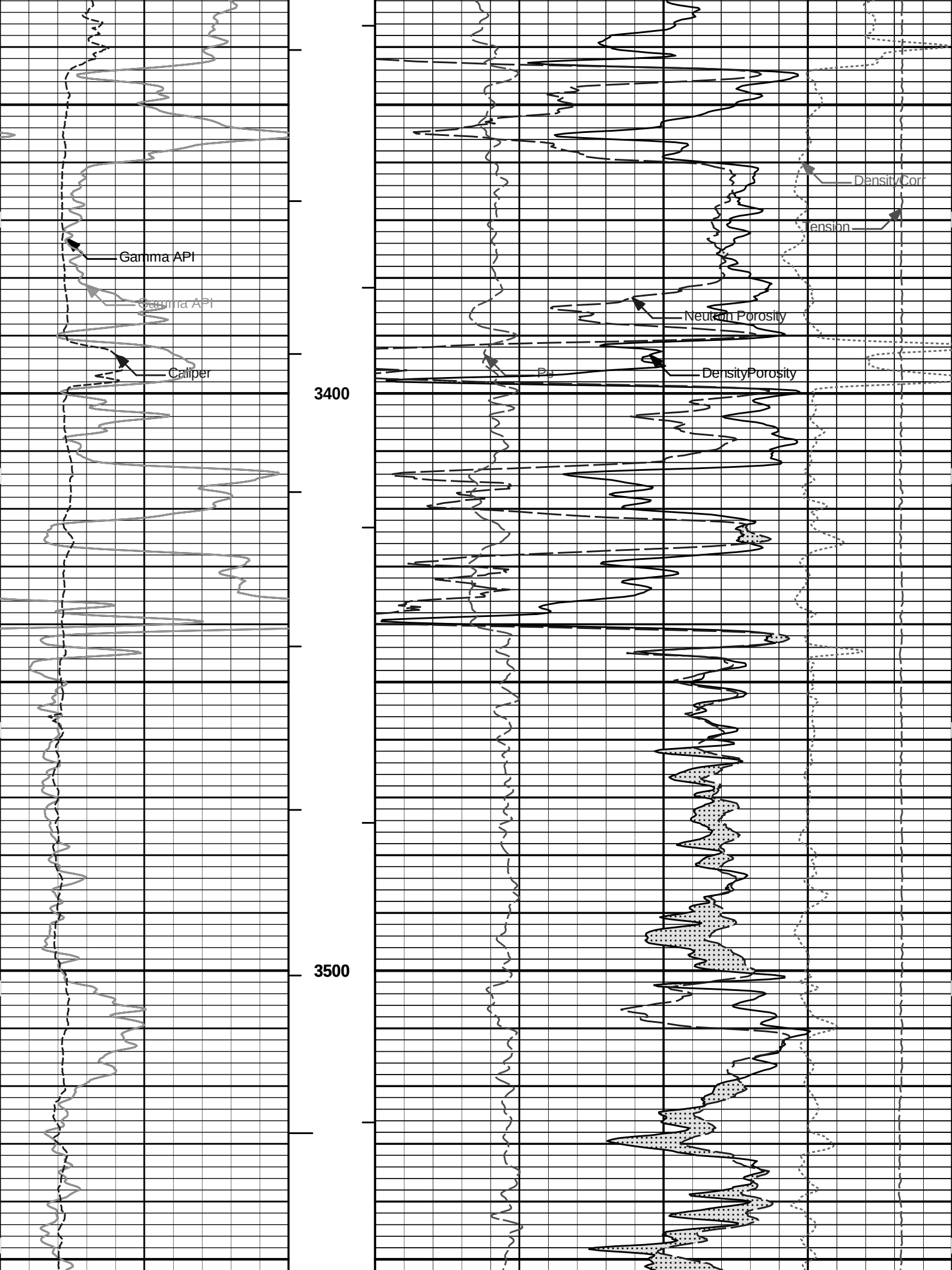
## DUEL SPACED NEUTRON SPECTRAL DENSITY LOG

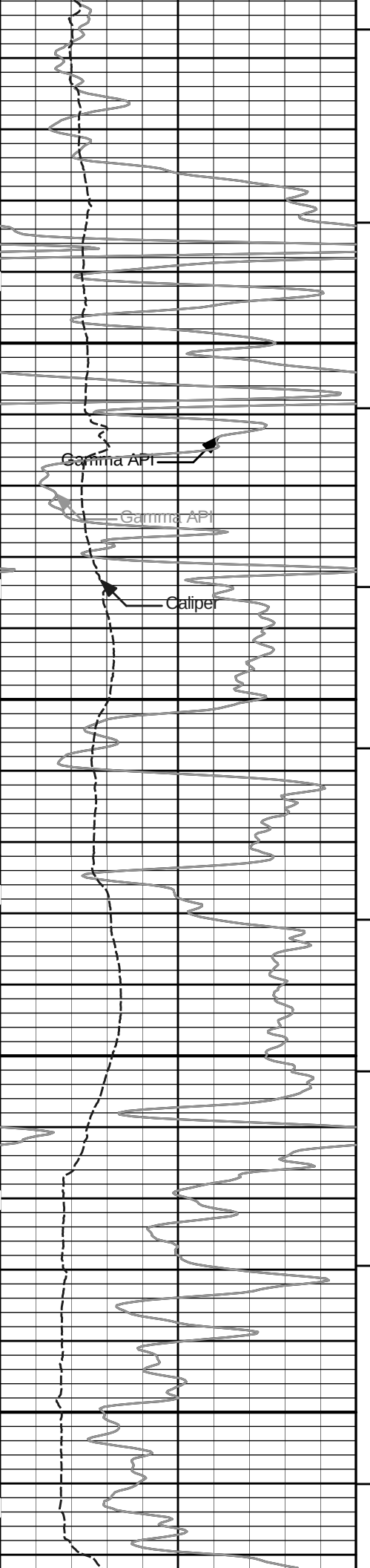
|                          |                         |                 |                                       |
|--------------------------|-------------------------|-----------------|---------------------------------------|
| COMPANY                  |                         | VAL ENERGY INC. |                                       |
| WELL                     | MILLS 1-29              |                 |                                       |
| FIELD                    | UNKNOWN                 |                 |                                       |
| COUNTY                   | BARBER                  |                 |                                       |
| STATE                    | KANSAS                  |                 |                                       |
| Permanent Datum          | GL                      | Elev. 1566.0 ft | Other Services:<br>ML<br>ACRT<br>MRIL |
| Log measured from        | KB                      | D.F. 1576.0 ft  |                                       |
| Drilling measured from   | KB                      | G.L. 1566.0 ft  |                                       |
| Date                     | 19-Mar-12               |                 |                                       |
| Run No.                  | ONE                     |                 |                                       |
| Depth - Driller          | 4620.00 ft              |                 |                                       |
| Depth - Logger           | 4616.0 ft               |                 |                                       |
| Bottom - Logged Interval | 4593 ft                 |                 |                                       |
| Top - Logged Interval    | 3300 ft                 |                 |                                       |
| Casing - Driller         | 8.625 in @ 224.0 ft     |                 |                                       |
| Casing - Logger          | 223.0 ft                |                 |                                       |
| Bit Size                 | 7.875 in                | @               |                                       |
| Type Fluid in Hole       | WATER BASED MUD         |                 |                                       |
| Density                  | 9.2 ppg                 | 55.00 s/qt      |                                       |
| PH                       | 11.00 pH                | 8.8 cp/m        |                                       |
| Source of Sample         | FLOWLINE                |                 |                                       |
| Rm @ Meas. Temperature   | 0.450 ohmm @ 95.00 degF | @               |                                       |
| Rmf @ Meas. Temperature  | 0.30 ohmm @ 85.00 degF  | @               |                                       |
| Rmc @ Meas. Temperature  | 0.500 ohmm @ 85.00 degF | @               |                                       |
| Source Rmf               | MEASURED                | MEASURED        |                                       |
| Rm @ BHT                 | 0.36 ohmm @ 120.0 degF  | @               |                                       |
| Time Since Circulation   | 3.8 hr                  |                 |                                       |
| Time on Bottom           | 19-Mar-12 20:41         |                 |                                       |
| Max. Rec. Temperature    | 120.0 degF @ 4614.0 ft  | @               |                                       |
| Equipment                | 10782954                | LIBERAL         |                                       |
| Recorded By              | C. MARLOWE              |                 |                                       |
| Witnessed By             | Z. STEWART              |                 |                                       |

Fold here

|                                         |            |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
|-----------------------------------------|------------|--|---|------------------------------|--|----------------------------|-----------------|-----------------------------------------|-----------------|-------|----------|---------|--|
| Service Ticket No.: 9369957             |            |  |   | API Serial No.: 15-007-23841 |  |                            |                 | PGM Version: WL INSITE R3.4.2 (Build 2) |                 |       |          |         |  |
| CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE |            |  |   |                              |  | RESISTIVITY SCALE CHANGES  |                 |                                         |                 |       |          |         |  |
| Date                                    | Sample No. |  |   |                              |  | Type Log                   | Depth           | Scale Up Hole                           | Scale Down Hole |       |          |         |  |
| Depth-Driller                           |            |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Type Fluid in Hole                      |            |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Density                                 | Viscosity  |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Ph                                      | Fluid Loss |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Source of Sample                        |            |  |   |                              |  | RESISTIVITY EQUIPMENT DATA |                 |                                         |                 |       |          |         |  |
| Rm @ Meas. Temp                         | @          |  | @ |                              |  | Run No.                    | Tool Type & No. | Pad Type                                | Tool Pos.       | Other |          |         |  |
| Rmf @ Meas. Temp.                       | @          |  | @ |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Rmc @ Meas. Temp.                       | @          |  | @ |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Source Rmf                              | Rmc        |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Rm @ BHT                                | @          |  | @ |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Rmf @ BHT                               | @          |  | @ |                              |  |                            |                 |                                         |                 |       |          |         |  |
| Rmc @ BHT                               | @          |  | @ |                              |  |                            |                 |                                         |                 |       |          |         |  |
| EQUIPMENT DATA                          |            |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| GAMMA                                   |            |  |   | ACOUSTIC                     |  |                            |                 | DENSITY                                 |                 |       |          | NEUTRON |  |
| Run No.                                 | ONE        |  |   | Run No.                      |  | Run No.                    | ONE             |                                         | Run No.         | ONE   |          |         |  |
| Serial No.                              | 10811258   |  |   | Serial No.                   |  | Serial No.                 | I145_M73803_P90 |                                         | Serial No.      |       | 10735145 |         |  |
| Model No.                               | GTET       |  |   | Model No.                    |  | Model No.                  | SDLT            |                                         | Model No.       |       | DSNT     |         |  |
| Diameter                                | 3.625      |  |   | No. of Cent.                 |  | Diameter                   | 4.5"            |                                         | Diameter        |       | 3.625"   |         |  |
| Detector Model No.                      | T-102      |  |   | Spacing                      |  | Log Type                   | GAM-GAM         |                                         | Log Type        |       | NEU-NEU  |         |  |
| Type                                    | SCINT      |  |   |                              |  | Source Type                | CS 137          |                                         | Source Type     |       | AM241BE  |         |  |
| Length                                  | 8"         |  |   | LSA [Y/N]                    |  | Serial No.                 | 5073GW          |                                         | Serial No.      |       | DSN-436  |         |  |
| Distance to Source                      | 10'        |  |   | FWDA [Y/N ]                  |  | Strength                   | 1.5 CI          |                                         | Strength        |       | 15 CI    |         |  |
| LOGGING DATA                            |            |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |
| GENERAL                                 |            |  |   | GAMMA                        |  |                            |                 | ACOUSTIC                                |                 |       |          | DENSITY |  |
|                                         |            |  |   |                              |  |                            |                 |                                         |                 |       |          |         |  |

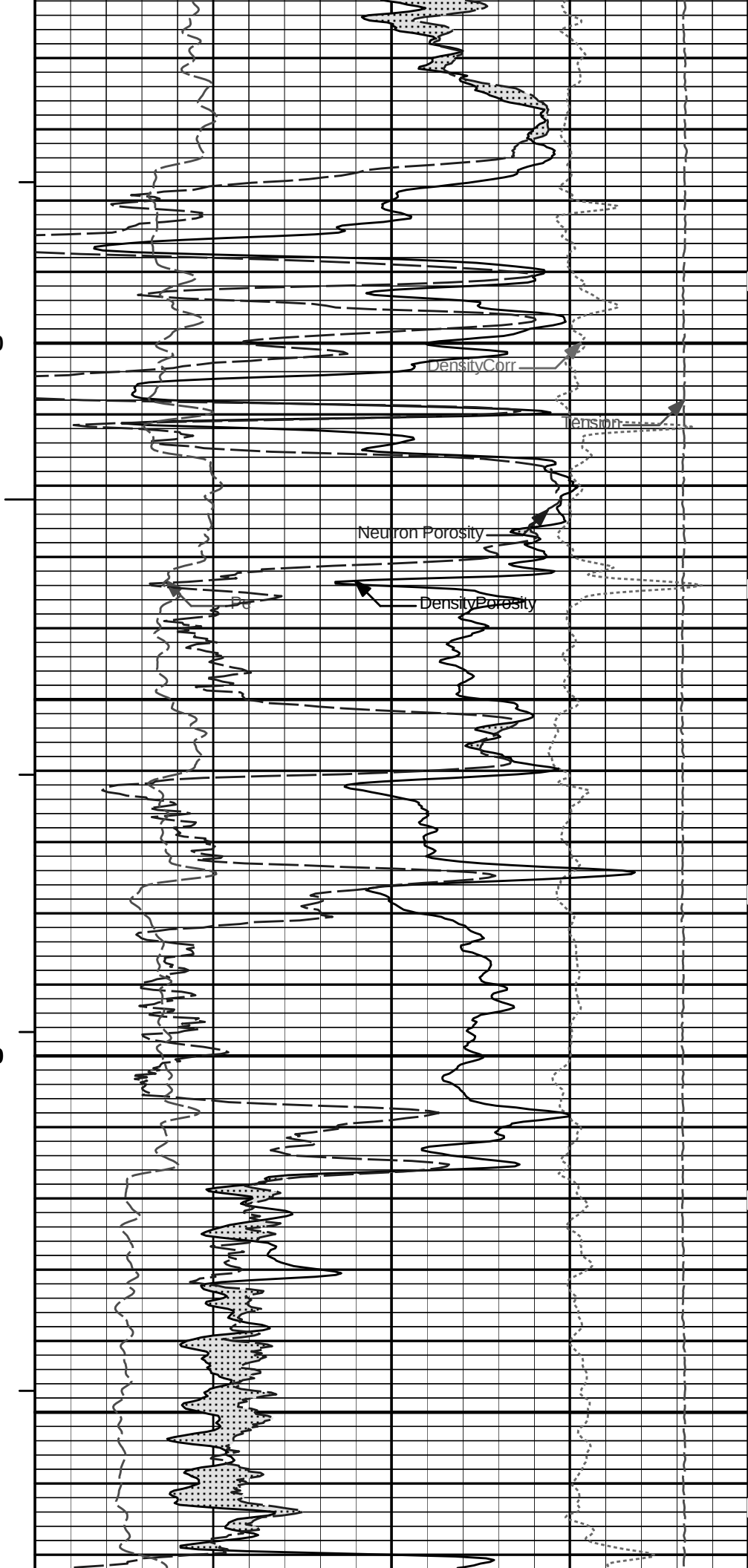






3600

3700

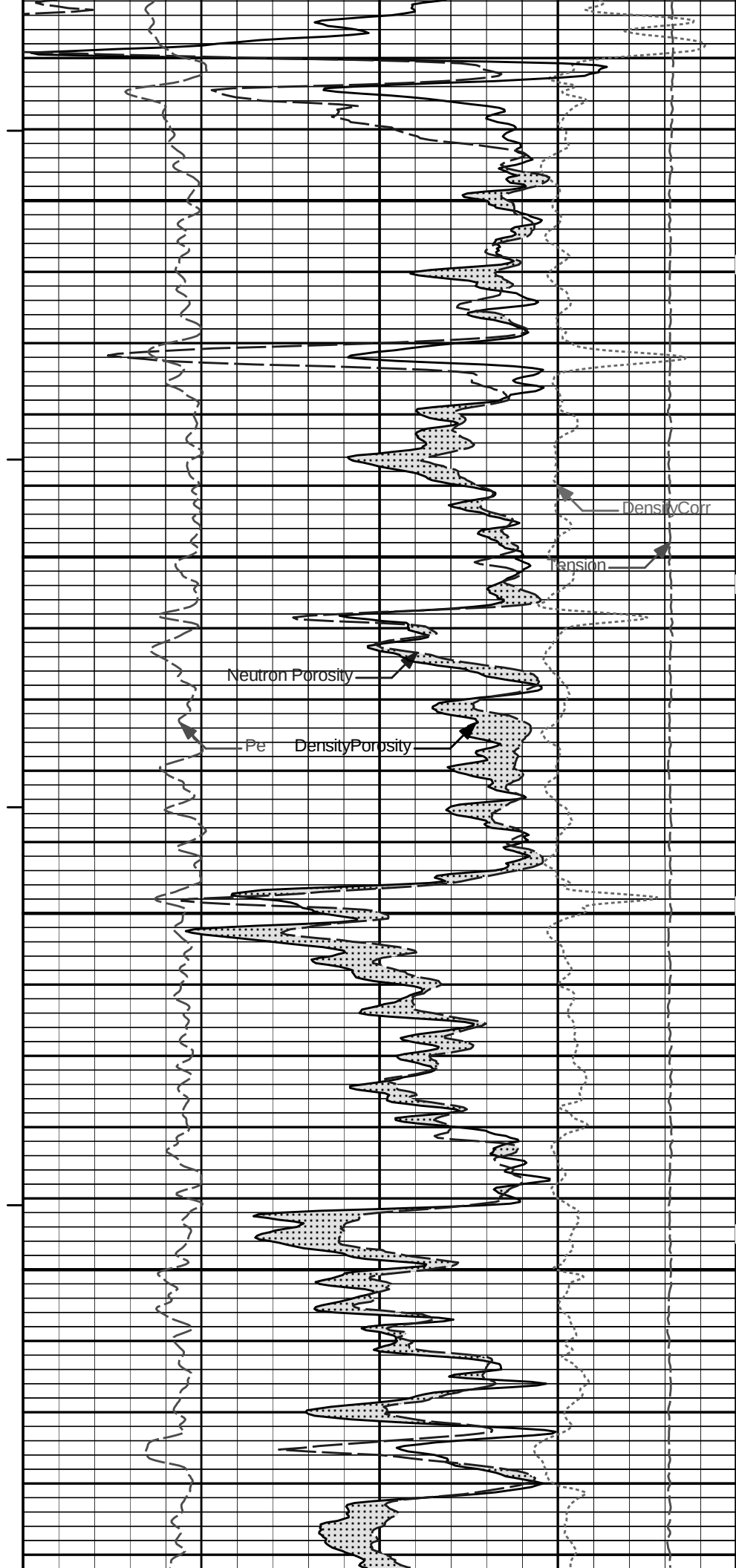
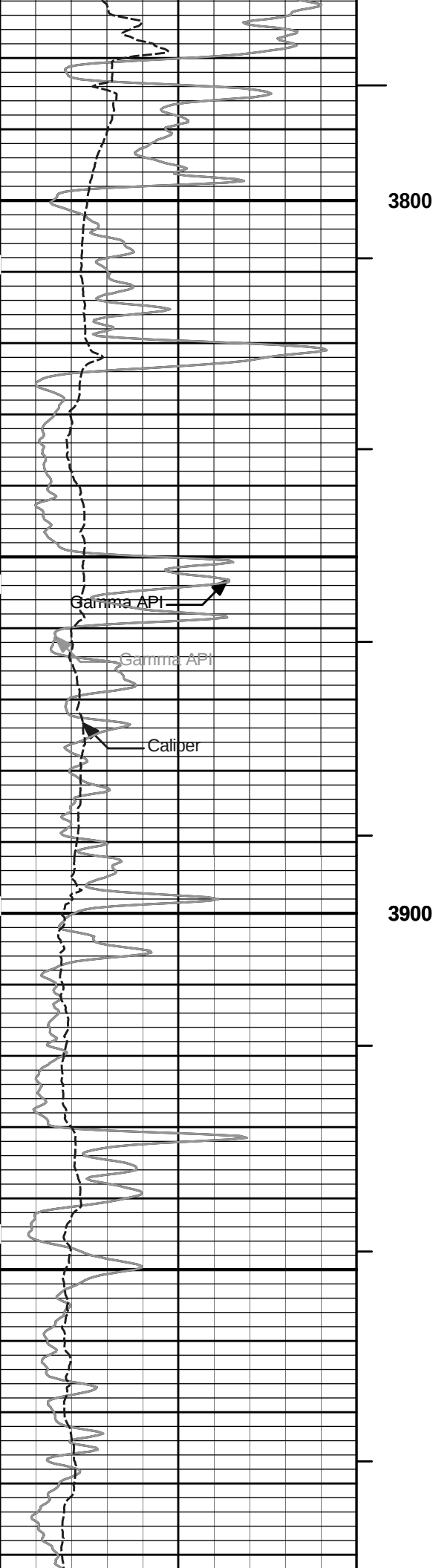


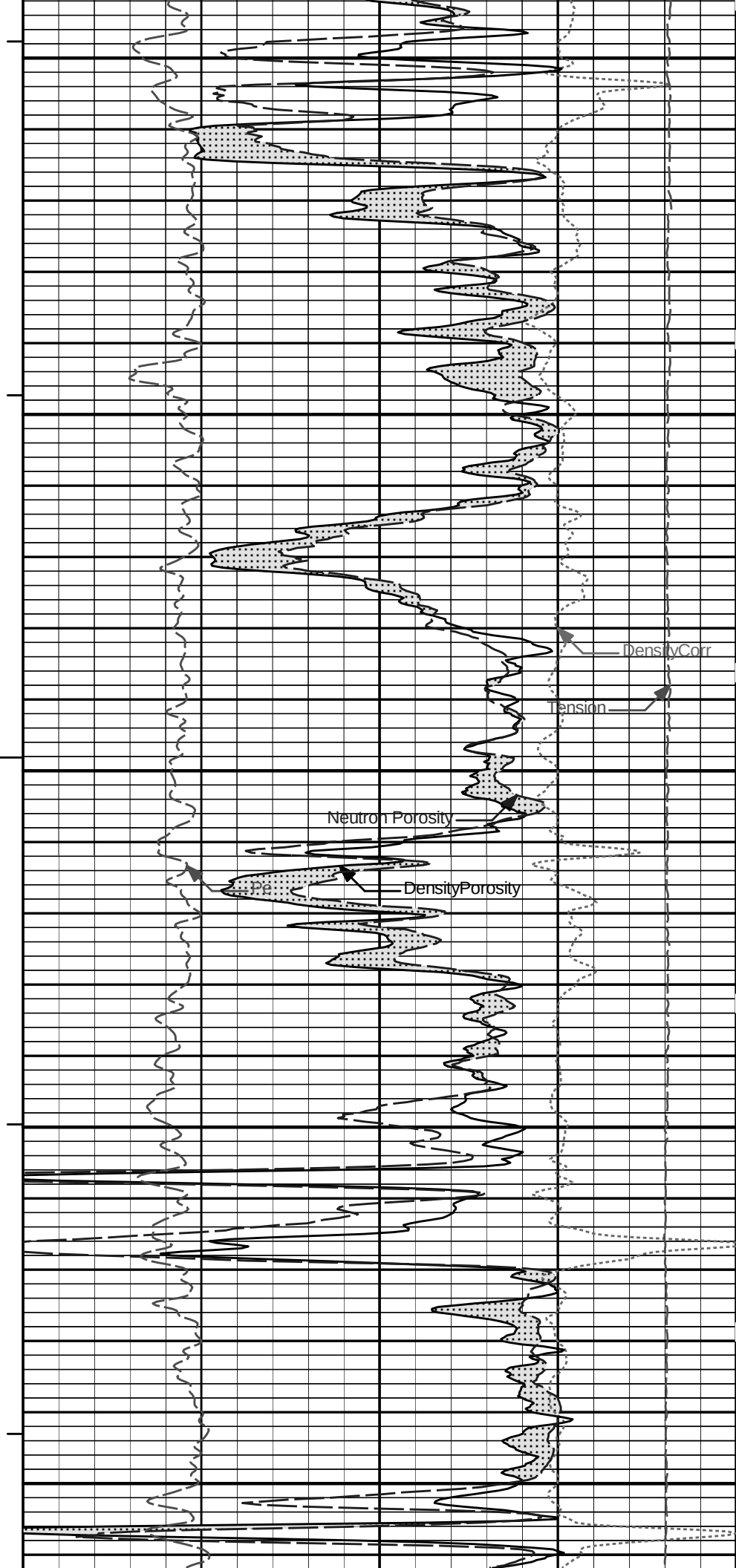
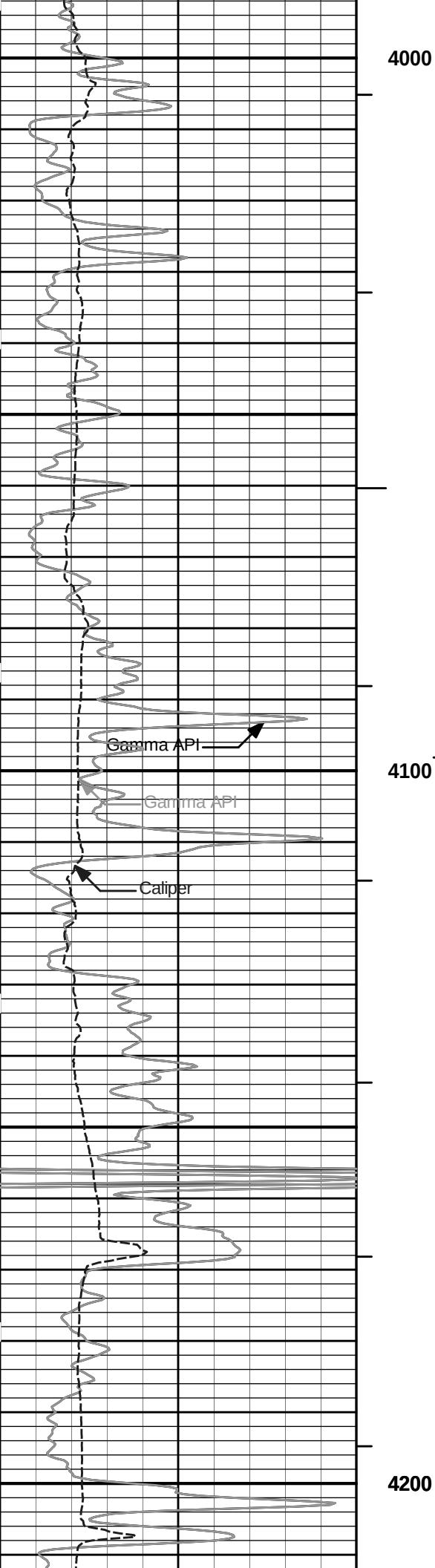
Density Corr

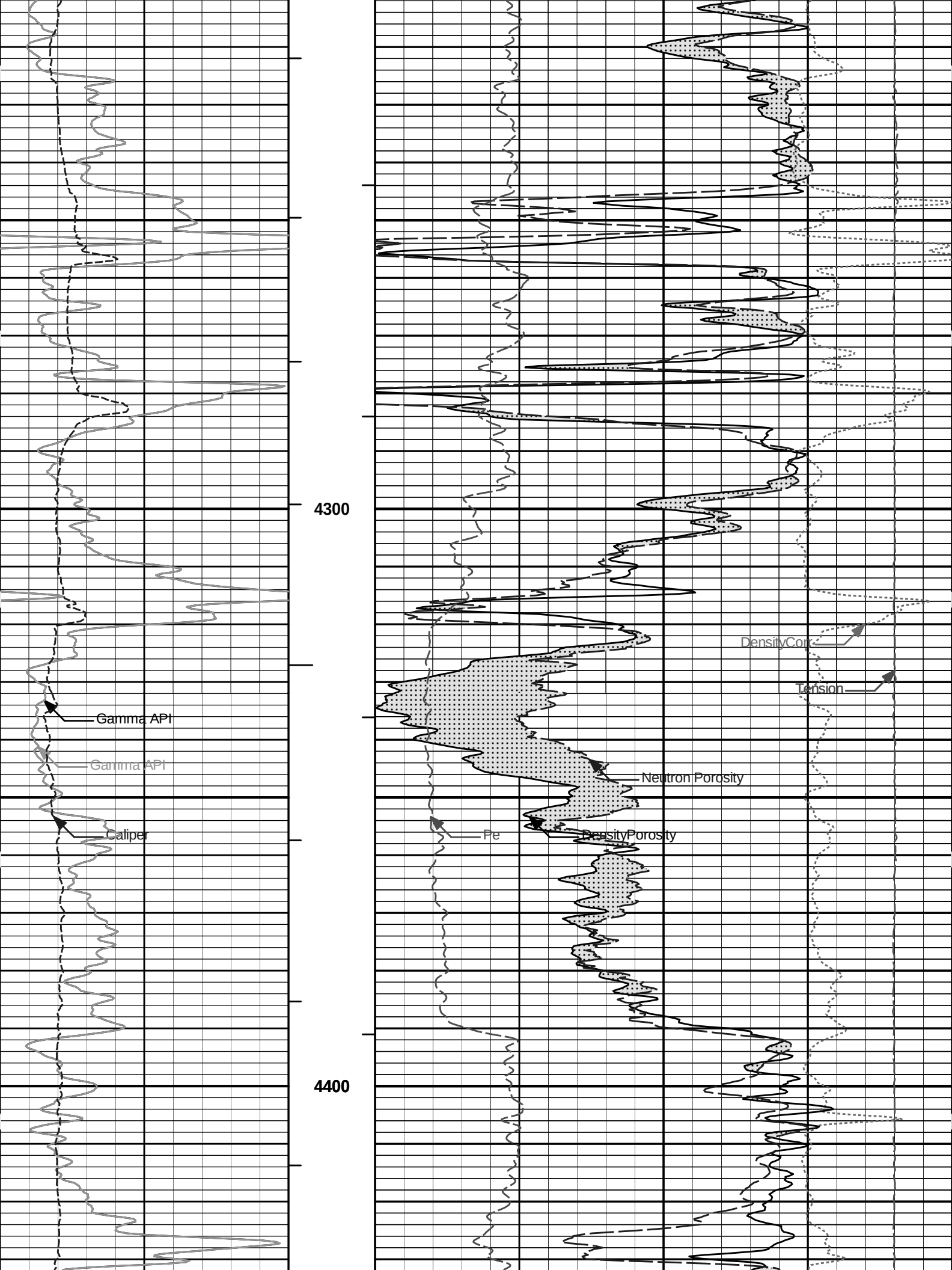
Tension

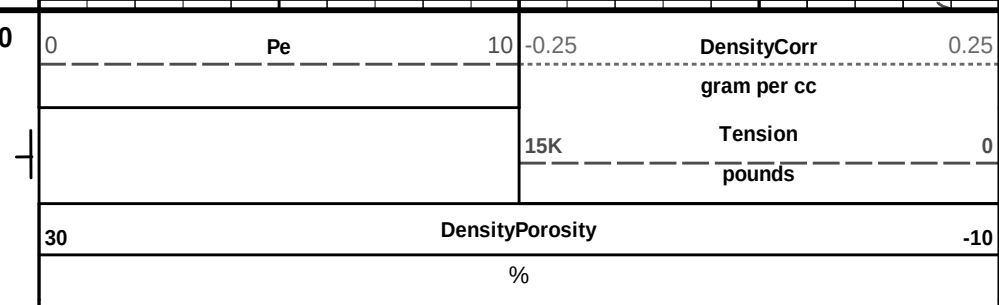
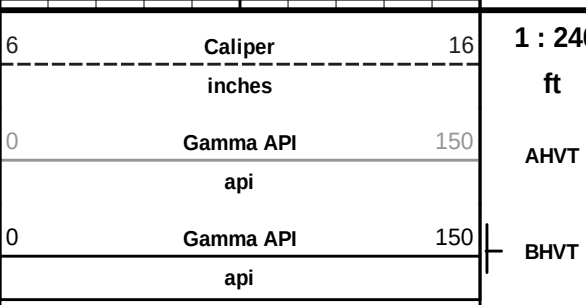
Neutron Porosity

Density Porosity



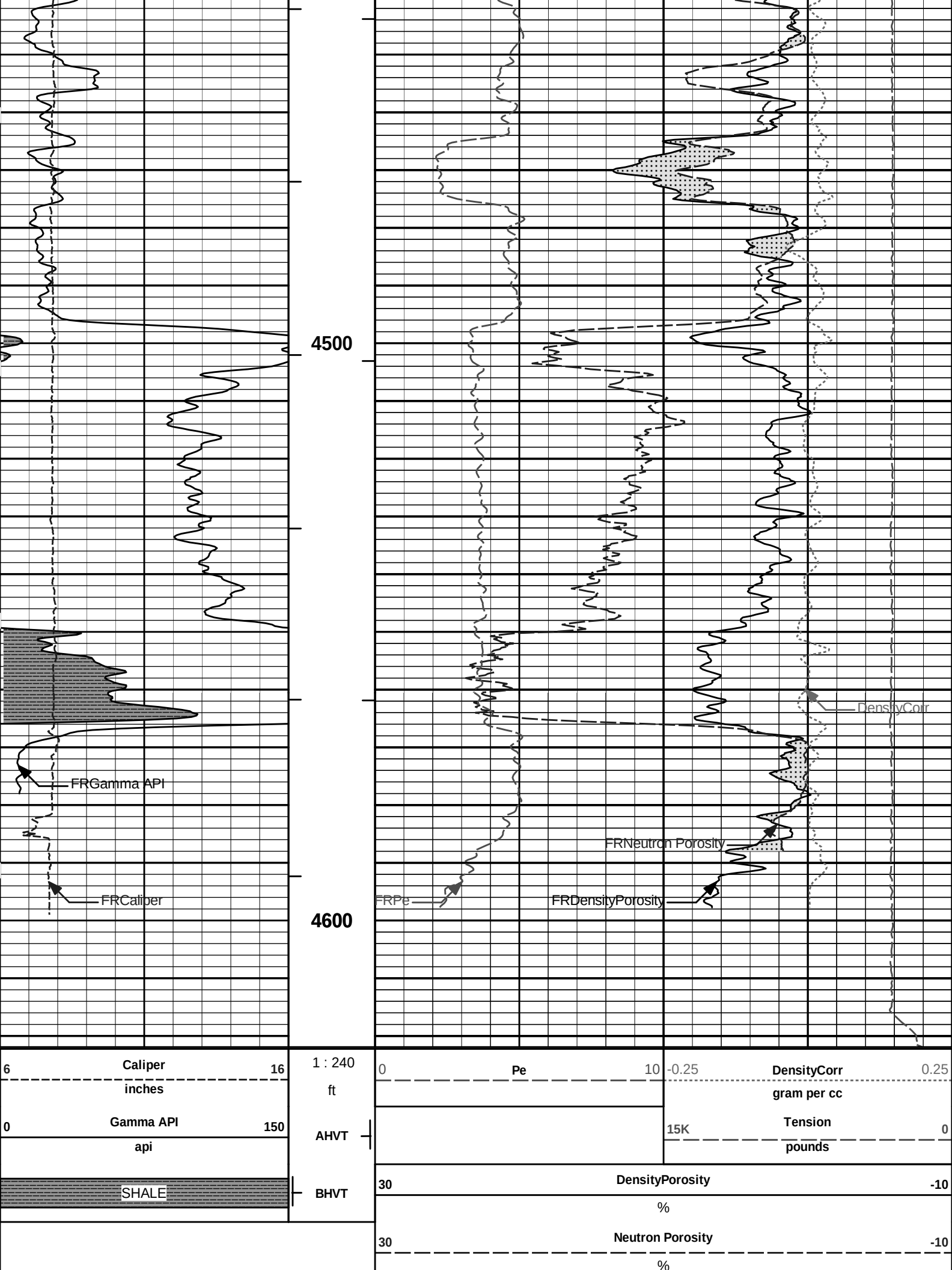








|           |  |                      |      |
|-----------|--|----------------------|------|
|           |  | CROSSOVER            |      |
|           |  | Neutron Porosity -10 |      |
|           |  | %                    |      |
|           |  | DensityPorosity -10  |      |
|           |  | %                    |      |
| 0         |  | 15K                  | 0    |
| Gamma API |  | Tension              |      |
| api       |  | pounds               |      |
| 6         |  | 0                    | 0.25 |
| Caliper   |  | DensityCorr          |      |
| inches    |  | gram per cc          |      |
| 16        |  |                      |      |
| 1 : 240   |  |                      |      |
| ft        |  |                      |      |
| 4400      |  |                      |      |



CROSSOVER

HALLIBURTON

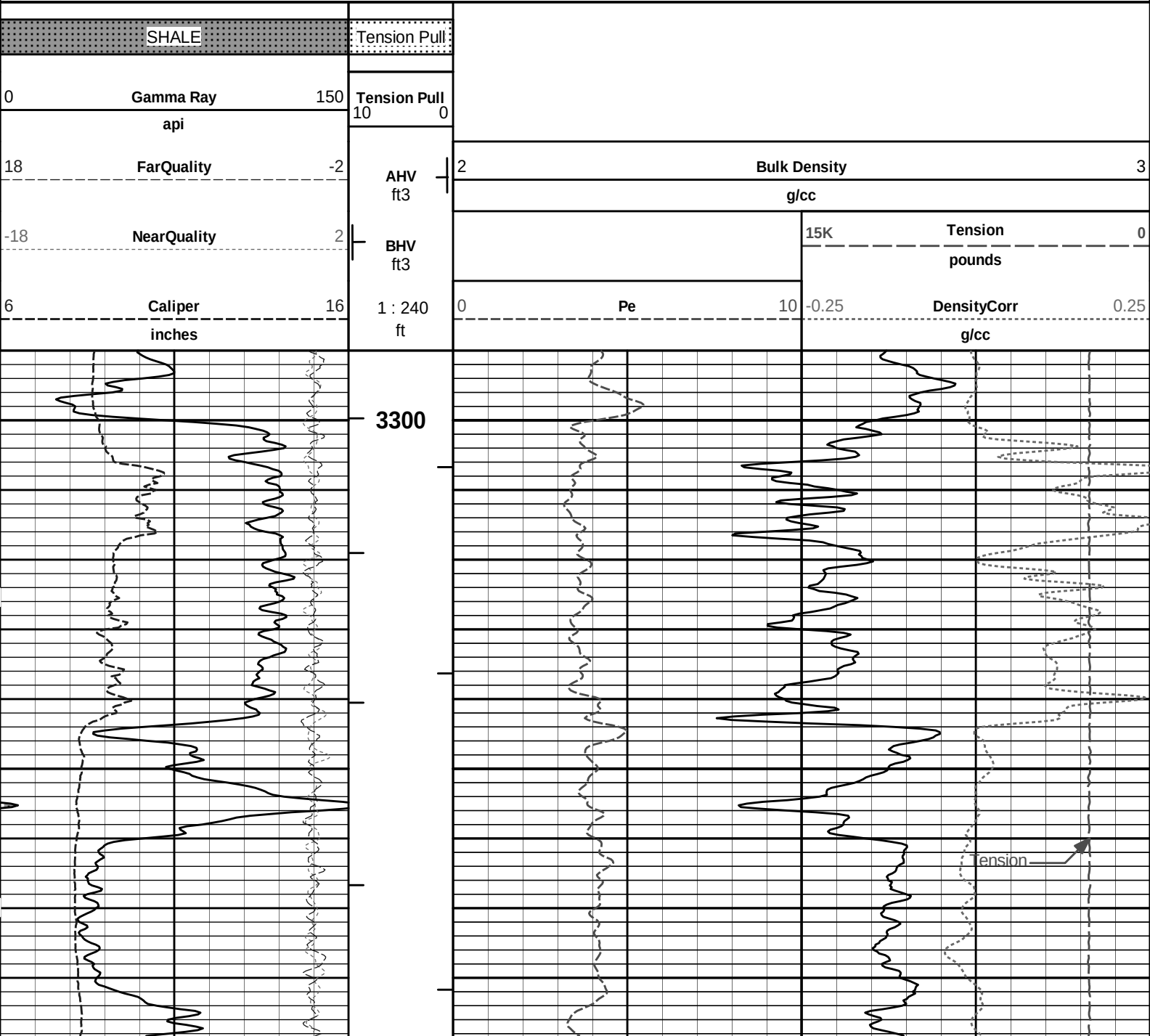
Plot Time: 19-Mar-12 21:33:47  
Plot Range: 4350 ft to 4621.92 ft  
Data: MILLS\_1\_29\Well Based\REPEAT\  
Plot File: \\PORO\Porosity\_Q\_5\_REP\_LIB

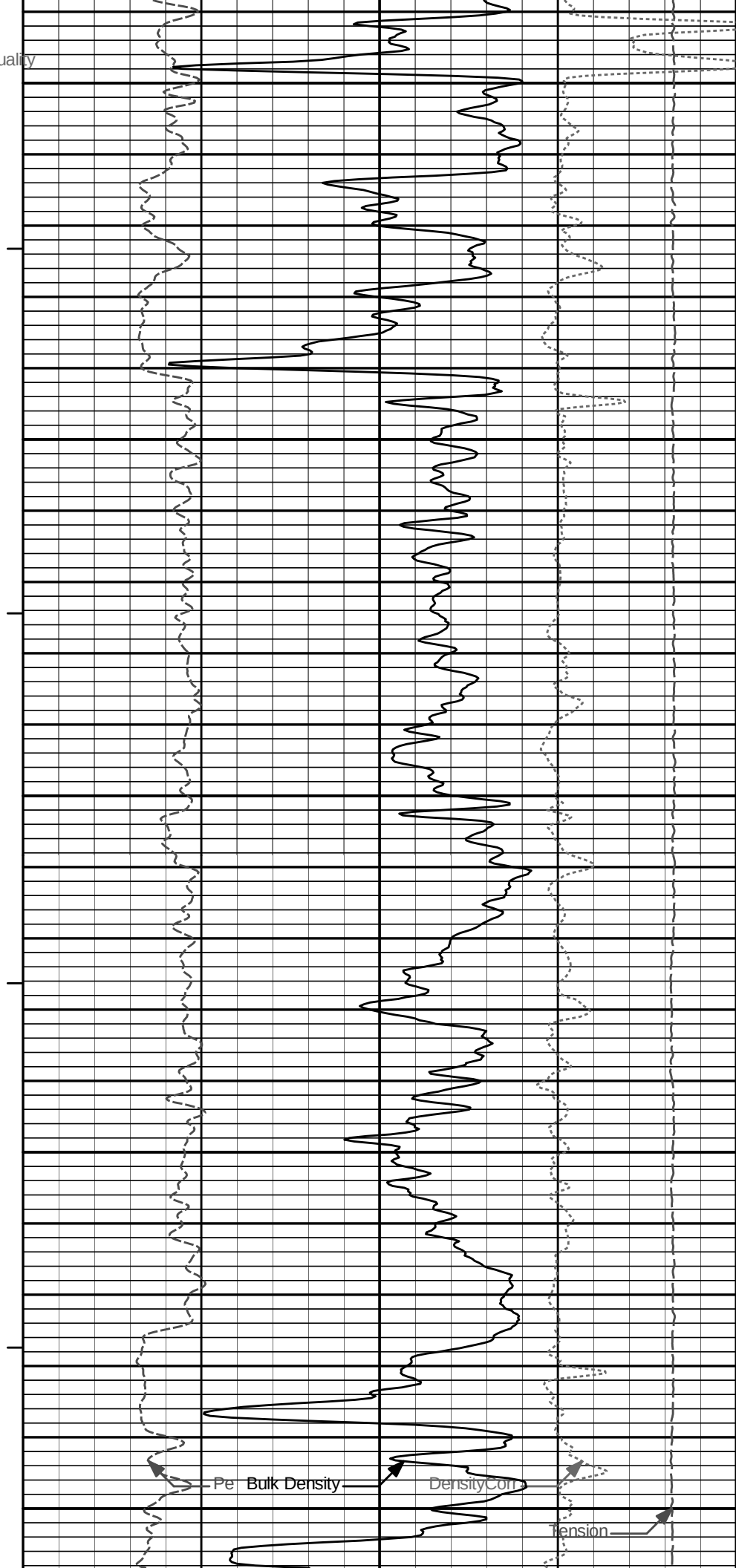
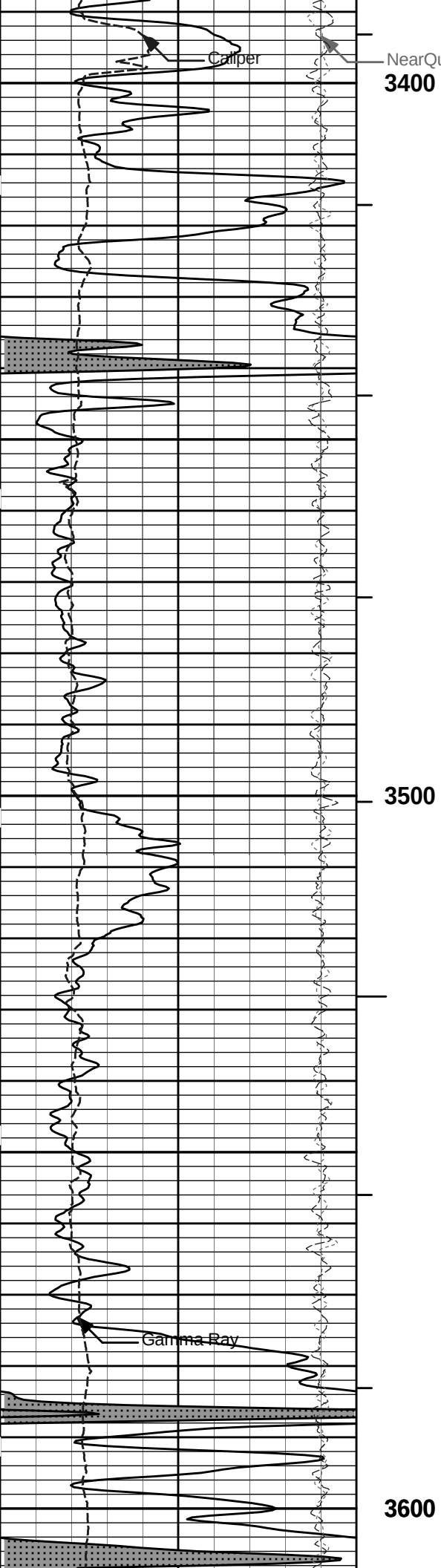
REPEAT SECTION

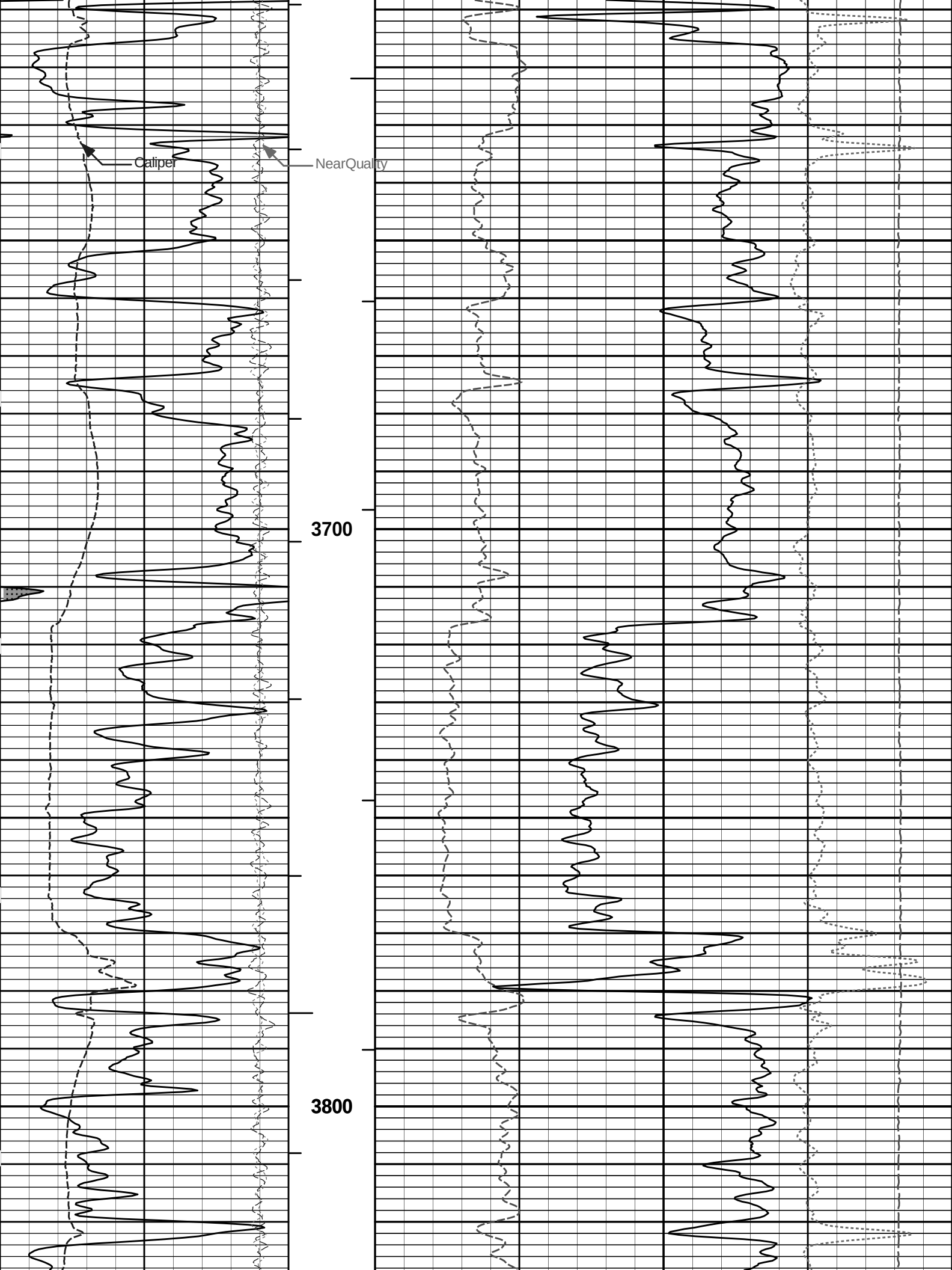
HALLIBURTON

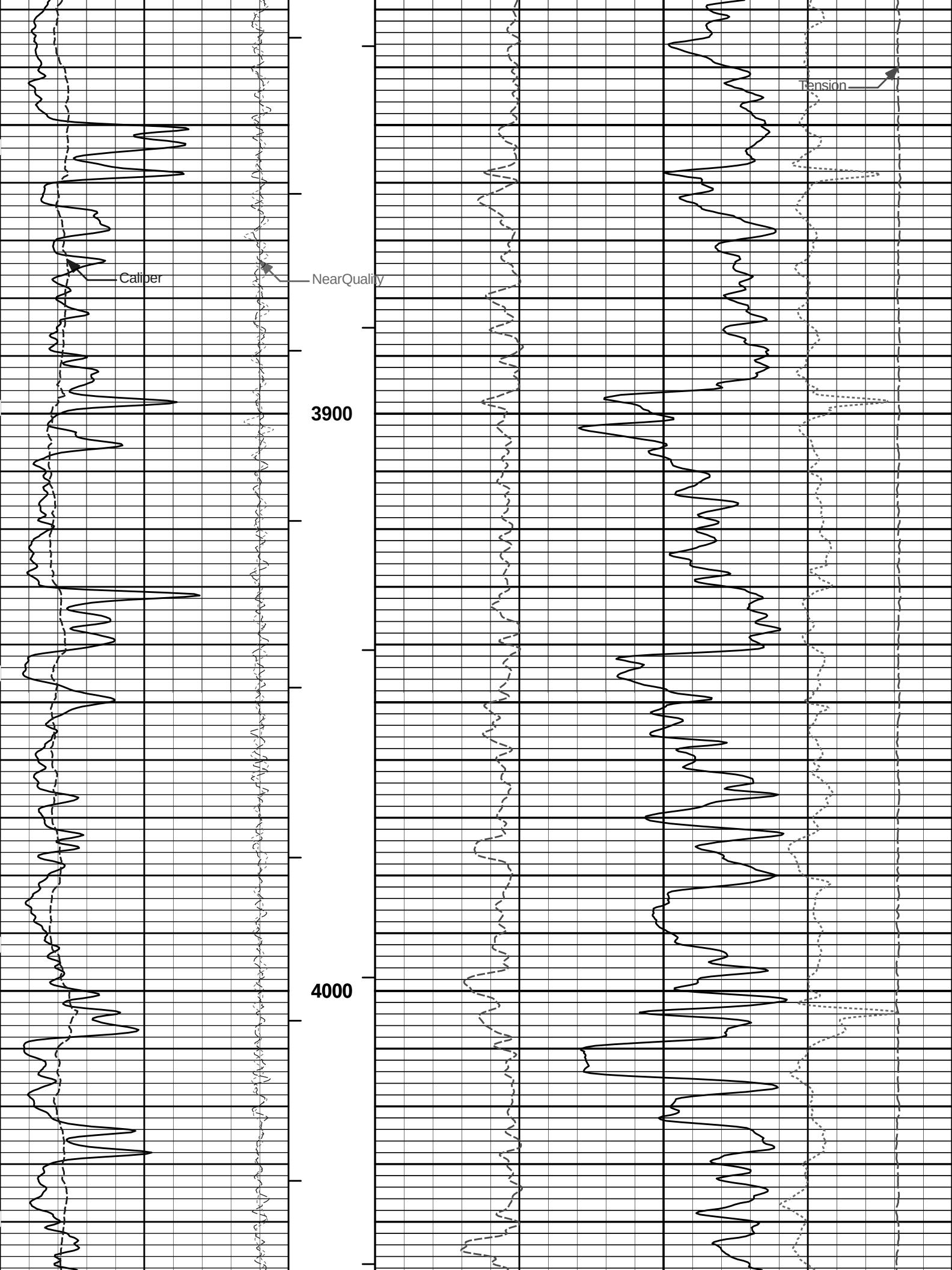
Plot Time: 19-Mar-12 21:33:48  
Plot Range: 3290 ft to 4621 ft  
Data: MILLS\_1\_29\Well Based\DETAIL\  
Plot File: \\LOCAL\MILLS\_1\_29\0001 SP-GTET-DSNT-SDLT-ACRT-CH\PORO\BULKD\_5\_MAIN\_LIB

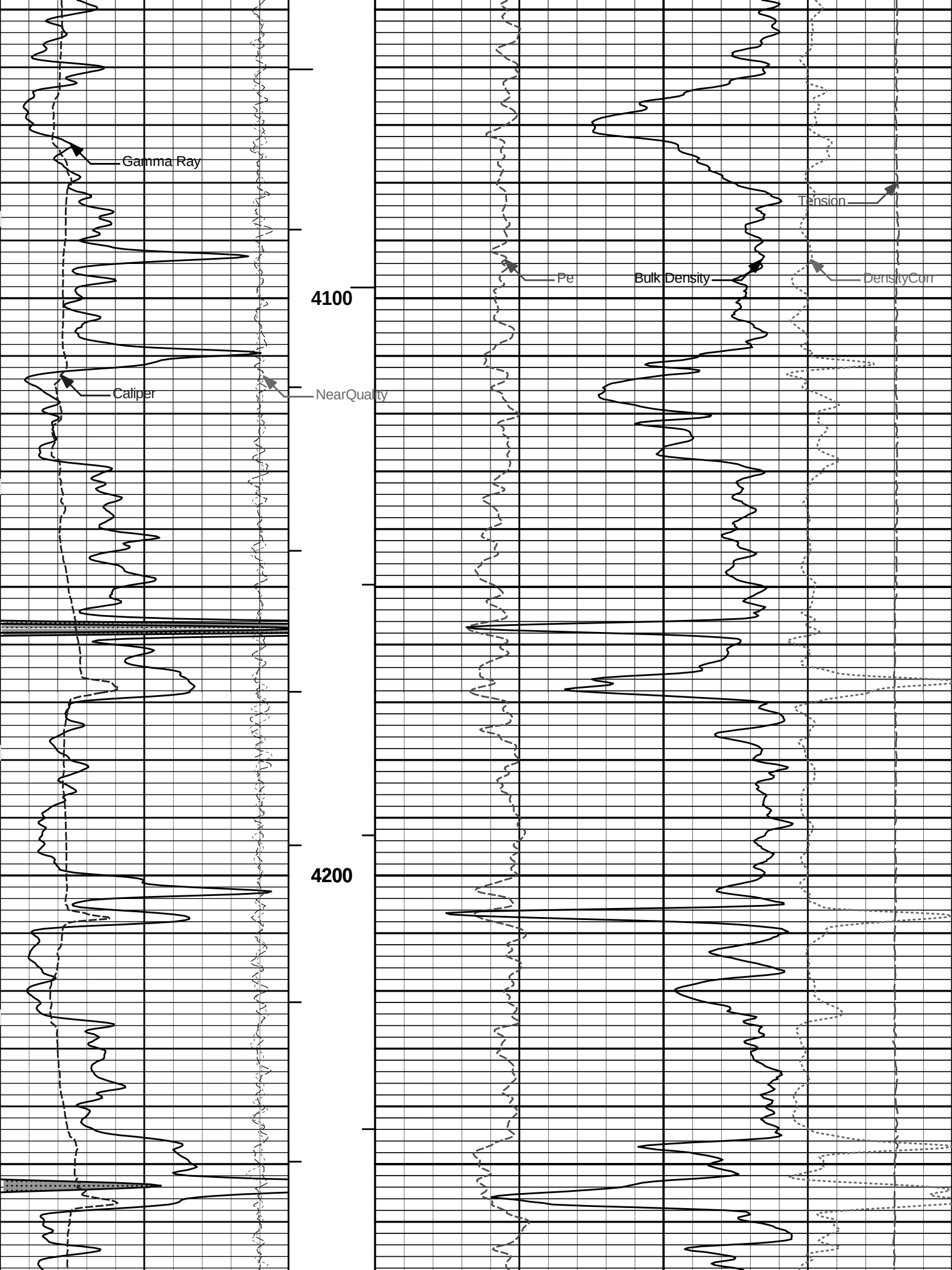
5 INCH MAIN LOG

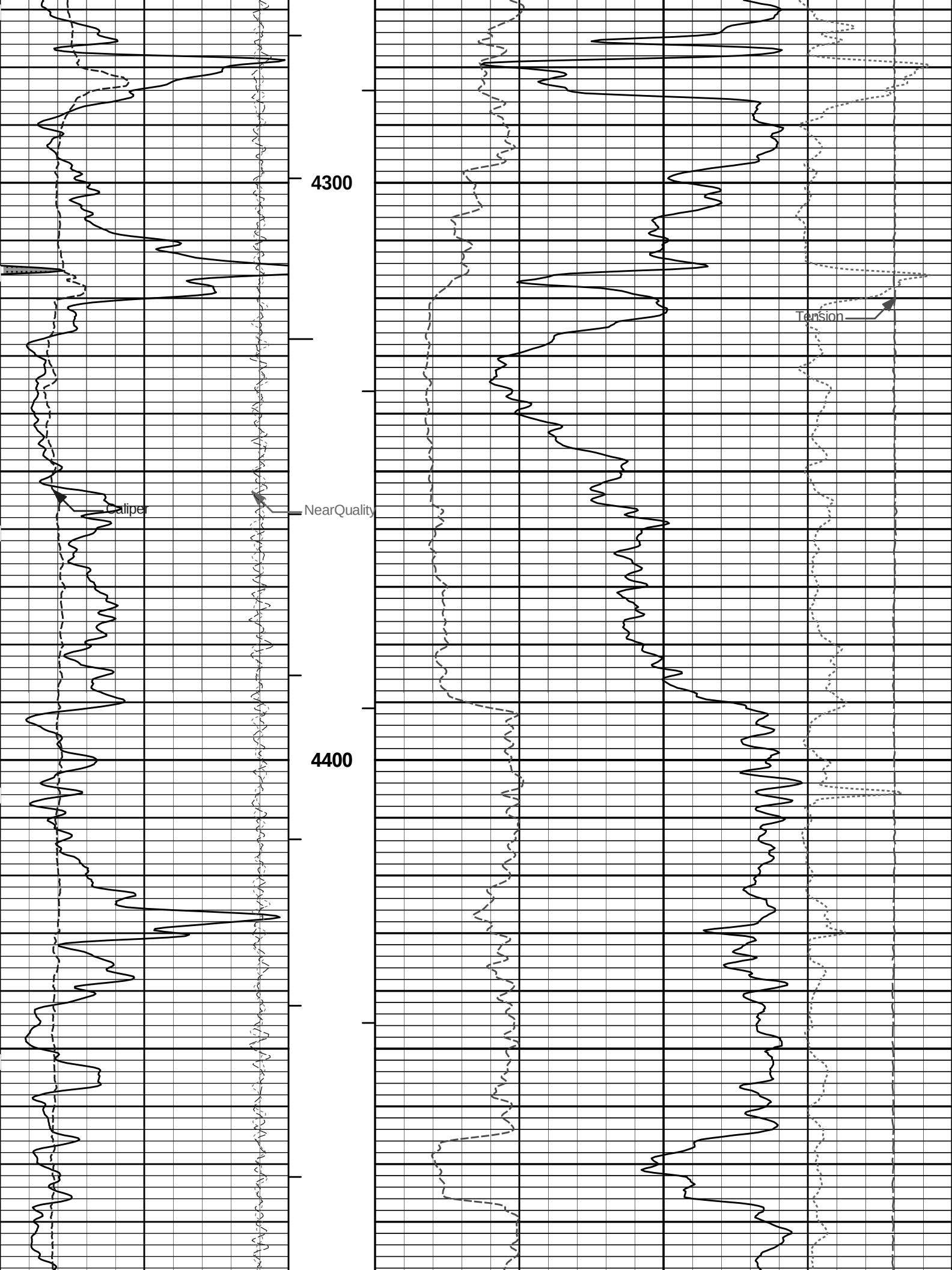




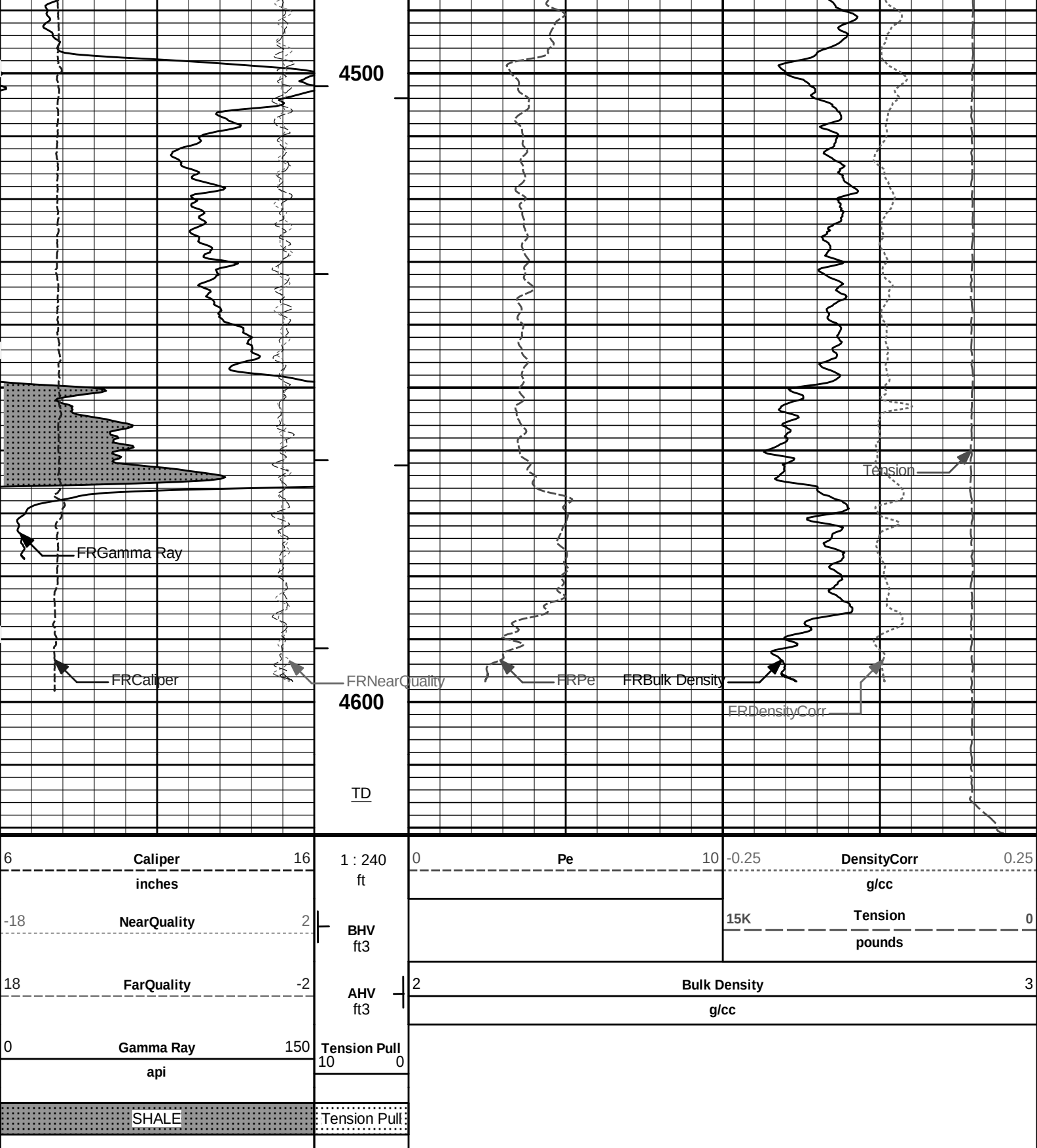












HALLIBURTON

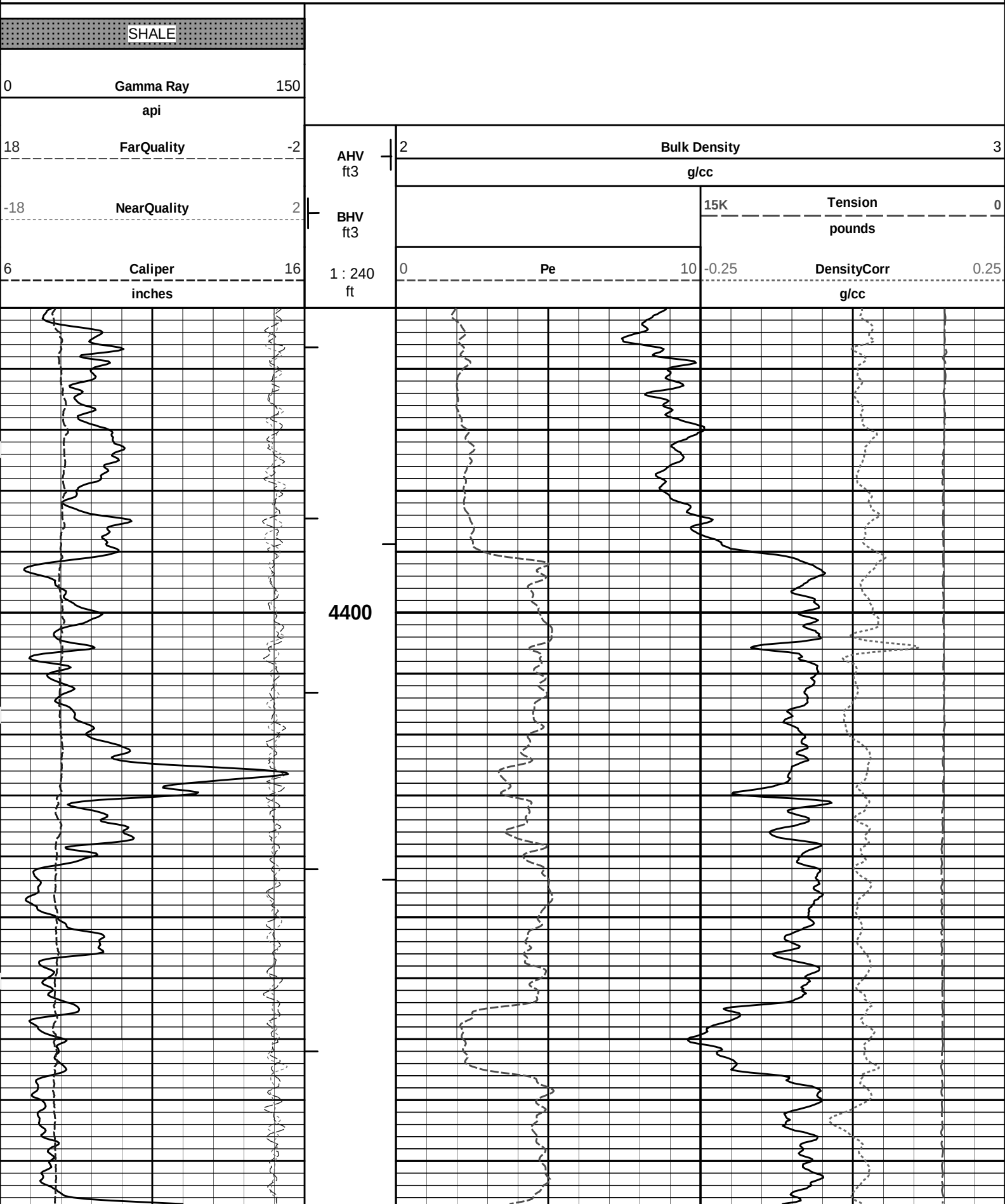
Plot Time: 19-Mar-12 21:33:51  
Plot Range: 3290 ft to 4621 ft  
Data: MILLS\_1\_29\Well Based\DETAIL\  
Plot File: \\-LOCAL-MILLS\_1\_29\0001 SP-GTET-DSNT-SDLT-ACRT-CH\PORO\BULKD\_5\_MAIN\_LIB

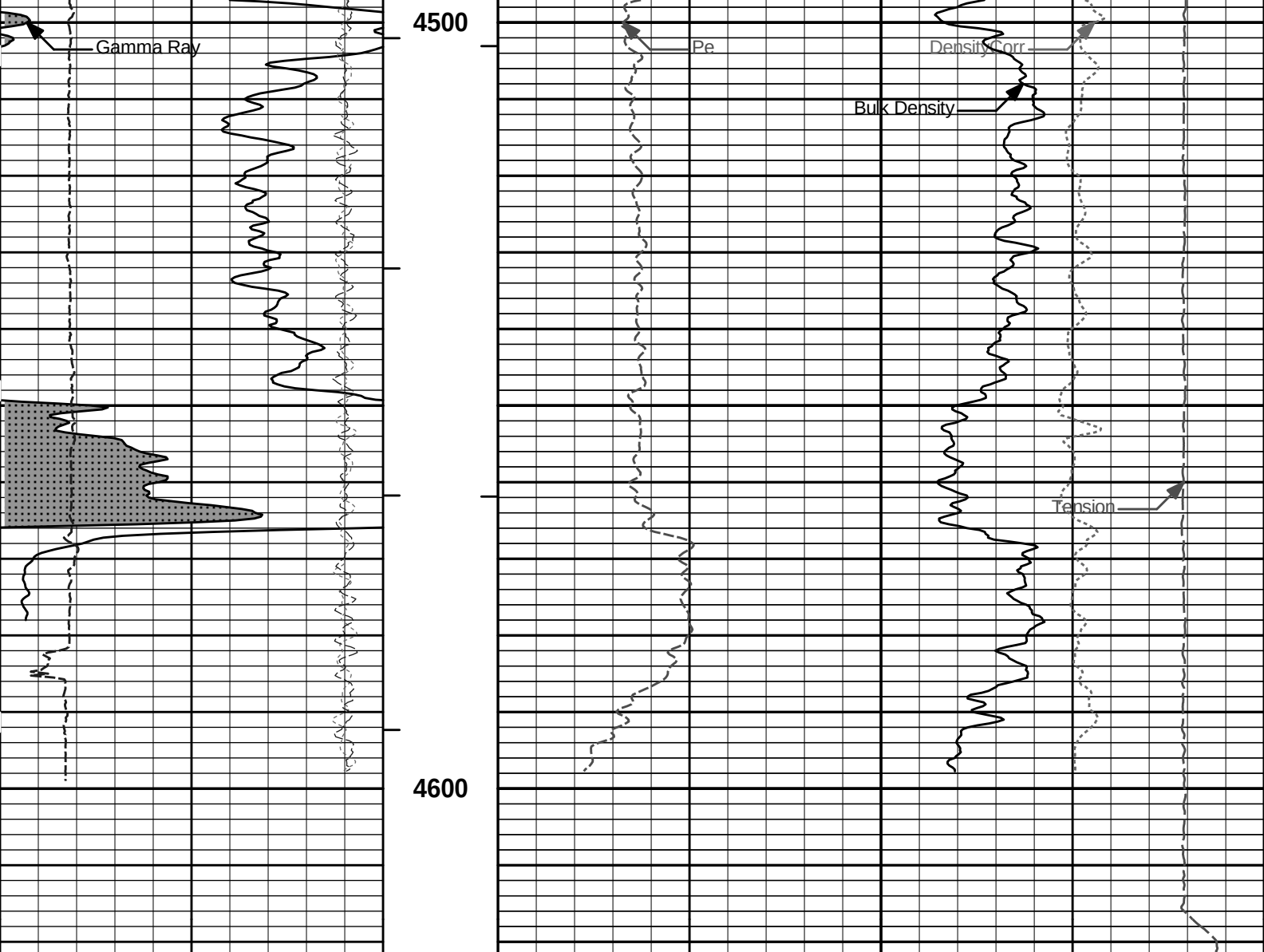
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 19-Mar-12 21:33:51  
Plot Range: 4350 ft to 4621.92 ft

## REPEAT SECTION





|     |             |     |               |           |              |    |       |             |      |   |
|-----|-------------|-----|---------------|-----------|--------------|----|-------|-------------|------|---|
| 6   | Caliper     | 16  | 1 : 240<br>ft | 0         | Pe           | 10 | -0.25 | DensityCorr | 0.25 |   |
|     | inches      |     |               |           |              |    |       | g/cc        |      |   |
| -18 | NearQuality | 2   |               | BH<br>ft3 |              |    | 15K   | Tension     | 0    |   |
|     |             |     |               |           |              |    |       | pounds      |      |   |
| 18  | FarQuality  | -2  | AH<br>ft3     | 2         | Bulk Density |    |       |             |      | 3 |
|     |             |     |               |           | g/cc         |    |       |             |      |   |
| 0   | Gamma Ray   | 150 |               |           |              |    |       |             |      |   |
|     | api         |     |               |           |              |    |       |             |      |   |
|     | SHALE       |     |               |           |              |    |       |             |      |   |

**HALLIBURTON**

Plot Time: 19-Mar-12 21:33:52  
Plot Range: 4350 ft to 4621.92 ft  
Data: MILLS\_1\_29\Well Based\REPEAT\  
Plot File: \\-LOCAL-MILLS\_1\_29\0001 SP-GTET-DSNT-SDLT-ACRT-CH\PORO\BULKD\_5\_REP\_LIB

**REPEAT SECTION**

| Description                            | Overbody Description                                                     | O.D.                                           | Diagram | Sensors @ Delays                                                | Length               | Accumulated Length |
|----------------------------------------|--------------------------------------------------------------------------|------------------------------------------------|---------|-----------------------------------------------------------------|----------------------|--------------------|
| Cable Head-<br>PROT01<br>30.00 lbs     |                                                                          | Ø 3.625 in →                                   |         |                                                                 | 1.92 ft              | 54.51 ft           |
| SP Sub-PROT01<br>60.00 lbs             |                                                                          | Ø 3.625 in →                                   |         | ← SP @ 50.81 ft                                                 | 3.74 ft              | 52.59 ft           |
| GTET-10811258<br>165.00 lbs            |                                                                          | Ø 3.625 in →                                   |         | ← GammaRay @ 42.79 ft                                           | 8.52 ft              | 48.85 ft           |
| DSNT-10735145<br>174.00 lbs            | DSN Decentralizer-<br>10735145<br>6.60 lbs                               | Ø 5.000 in* →<br>Ø 3.625 in →                  |         | ← DSN Far @ 33.39 ft<br>← DSN Near @ 32.64 ft                   | 9.69 ft              | 40.33 ft           |
| SDLT-<br>I145_M73803_P90<br>360.00 lbs | SDLT Pad-90<br>65.00 lbs<br>Microlog Pad-<br>I145_M73803_P90<br>8.00 lbs | Ø 4.500 in →<br>Ø 4.750 in* →<br>Ø 4.750 in* → |         | Microlog @ 22.83 ft<br>SDL Caliper @ 22.65 ft<br>SDL @ 22.64 ft | 10.81 ft             | 30.64 ft           |
| ACRt Instrument-<br>I776<br>50.00 lbs  |                                                                          | Ø 3.625 in →                                   |         |                                                                 | 5.03 ft              | 19.83 ft           |
| ACRt Sonde-<br>I776_S775<br>200.00 lbs |                                                                          | Ø 3.625 in →                                   |         | ← Mud Resistivity @ 13.44 ft<br><br>← ACRt @ 9.46 ft            | 14.80 ft<br>14.22 ft |                    |
|                                        |                                                                          |                                                |         |                                                                 |                      |                    |
|                                        |                                                                          |                                                |         |                                                                 |                      |                    |
|                                        |                                                                          |                                                |         |                                                                 |                      |                    |

Cabbage Head-  
TRK954  
10.00 lbs

Ø 3.625 in  
Ø 6.000 in



0.58 ft  
0.58 ft  
0.00 ft

| Mnemonic                                             | Tool Name                                             | Serial Number   | Weight (lbs) | Length (ft) | Accumulated Length (ft)  | Max.Log. Speed (fpm)                                    |
|------------------------------------------------------|-------------------------------------------------------|-----------------|--------------|-------------|--------------------------|---------------------------------------------------------|
| CH                                                   | Standard OH Cable Head                                | PROT01          | 30.00        | 1.92        | 52.59                    | 300.00                                                  |
| SP                                                   | SP Sub                                                | PROT01          | 60.00        | 3.74        | 48.85                    | 300.00                                                  |
| GTET                                                 | Gamma Telemetry Tool                                  | 10811258        | 165.00       | 8.52        | 40.33                    | 60.00                                                   |
| DSNT                                                 | Dual Spaced Neutron                                   | 10735145        | 174.00       | 9.69        | 30.64                    | 60.00                                                   |
| DCNT                                                 | DSN Decentralizer                                     | 10735145        | 6.60         | 5.13        | * 33.97                  | 300.00                                                  |
| SDLT                                                 | Spectral Density Tool                                 | I145_M73803_P90 | 360.00       | 10.81       | 19.83                    | 60.00                                                   |
| MICP                                                 | Microlog Pad                                          | I145_M73803_P90 | 8.00         | 1.00        | * 22.33                  | 60.00                                                   |
| SDLP                                                 | Density Insite Pad                                    | 90              | 65.00        | 2.55        | * 22.04                  | 60.00                                                   |
| ACRt                                                 | Array Compensated True Resistivity Instrument Section | I776            | 50.00        | 5.03        | 14.80                    | 300.00                                                  |
| ACRt                                                 | Array Compensated True Resistivity                    | I776_S775       | 200.00       | 14.22       | 0.58                     | 300.00                                                  |
| CBHD                                                 | Cabbage Head                                          | TRK954          | 10.00        | 0.58        | 0.00                     | 300.00                                                  |
| Total                                                |                                                       |                 | 1,128.60     | 54.51       |                          |                                                         |
|                                                      |                                                       |                 |              |             |                          | * Not included in Total Length and Length Accumulation. |
| Data: MILLS_1_29\0001 SP-GTET-DSNT-SDLT-ACRT-CH\IDLE |                                                       |                 |              |             | Date: 19-Mar-12 19:20:33 |                                                         |

HALLIBURTON

## CALIBRATION REPORT

### NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10811258

Reference Calibration Date: 27-Feb-12 10:42:34

Engineer: T. HYDE

Calibration Date: 27-Feb-12 10:45:14

Software Version: WL INSITE R3.4.2 (Build 2)

Calibration Version: 1

Calibrator Source S/N: TB185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

| Measurement             | Measured | Calibrated | Units |
|-------------------------|----------|------------|-------|
| Background              | 43.9     | 44.1       | api   |
| Background + Calibrator | 275.0    | 276.1      | api   |
| Calibrator              | 231.1    | 232.0      | api   |

### NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10811258

Reference Calibration Date: 27-Feb-12 10:45:14

Engineer: C. MARLOWE

Calibration Date: 19-Mar-12 19:41:02

Software Version: WL INSITE R3.4.2 (Build 2)

Calibration Version: 1

Calibrator Source S/N: TB185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

| Field Verification      | Shop  | Field | Units |
|-------------------------|-------|-------|-------|
| Background              | 44.1  | 48.9  | api   |
| Background + Calibrator | 276.1 | 277.7 | api   |
| Calibrator              | 232.0 | 228.8 | api   |

| Shop  | Field | Difference | Tolerance |
|-------|-------|------------|-----------|
| 232.0 | 228.8 | 3.2        | +/- 9.00  |

### DUAL SPACED NEUTRON SHOP CALIBRATION

| DUAL SPACED NEUTRON FIELD CALIBRATION                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------|-----------------------------|-------------------------|--------------------------------------------|--|---------------------|-------------|------------------------|---------------|----------------------------------|----------------------------|-------------------|-------------------------|-----------------------------|---------------|--------|---------|------------|-------------------|------|------|-------|-----------|
| Tool Name:                                                                                                                                                                                                                                                                                                                                                                                                                                 | DSNT - 10735145                  |                        | Reference Calibration Date: | 23-Jan-12 13:47:26      |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Engineer:                                                                                                                                                                                                                                                                                                                                                                                                                                  | T. HYDE                          |                        | Calibration Date:           | 27-Feb-12 13:38:46      |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Software Version:                                                                                                                                                                                                                                                                                                                                                                                                                          | WL INSITE R3.4.2 (Build 2)       |                        | Calibration Version:        | 1                       |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Logging Source S/N: 954<br>Tank Serial Number: LIBERAL_NEUTRON<br>Reference value assigned to Tank: 51.680<br>Snow Block S/N: 954<br>Calibration Tank Water Temperature: 67 degF<br>Min. Tool Housing Outside Diameter: 3.600 in                                                                                                                                                                                                           |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="4">CALIBRATION CONSTANTS</th></tr><tr><th>Measurement</th><th>Prev. Value</th><th>New Value</th><th>Control Limit On New Value</th></tr><tr><td>Gain:</td><td>0.933</td><td>0.931</td><td>0.900 - 1.100</td></tr></table>                                                                                                                                                                                          |                                  |                        |                             |                         | CALIBRATION CONSTANTS                      |  |                     |             | Measurement            | Prev. Value   | New Value                        | Control Limit On New Value | Gain:             | 0.933                   | 0.931                       | 0.900 - 1.100 |        |         |            |                   |      |      |       |           |
| CALIBRATION CONSTANTS                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                | Prev. Value                      | New Value              | Control Limit On New Value  |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Gain:                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.933                            | 0.931                  | 0.900 - 1.100               |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="5">WATER TANK SUMMARY (Horizontal Water Tank)</th></tr><tr><th>Measurement</th><th>Current Reading (Previous Coef.)</th><th>Calibrated (New Coef.)</th><th>Change</th><th>Control Limit On Change</th></tr><tr><td>Porosity (decp):</td><td>0.2094</td><td>0.2088</td><td>0.0006</td><td>+/- 0.0020</td></tr><tr><td>Calibrated Ratio:</td><td>9.67</td><td>9.65</td><td>0.020</td><td>+/- 0.050</td></tr></table> |                                  |                        |                             |                         | WATER TANK SUMMARY (Horizontal Water Tank) |  |                     |             |                        | Measurement   | Current Reading (Previous Coef.) | Calibrated (New Coef.)     | Change            | Control Limit On Change | Porosity (decp):            | 0.2094        | 0.2088 | 0.0006  | +/- 0.0020 | Calibrated Ratio: | 9.67 | 9.65 | 0.020 | +/- 0.050 |
| WATER TANK SUMMARY (Horizontal Water Tank)                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                | Current Reading (Previous Coef.) | Calibrated (New Coef.) | Change                      | Control Limit On Change |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Porosity (decp):                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.2094                           | 0.2088                 | 0.0006                      | +/- 0.0020              |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Calibrated Ratio:                                                                                                                                                                                                                                                                                                                                                                                                                          | 9.67                             | 9.65                   | 0.020                       | +/- 0.050               |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="3">VERIFIER</th></tr><tr><th>Measurement</th><th>Value</th><th>Control Limit</th></tr><tr><td>Snow-Block Porosity (decp):</td><td>0.0624</td><td>0.02000 - 0.09000</td></tr></table>                                                                                                                                                                                                                               |                                  |                        |                             |                         | VERIFIER                                   |  |                     | Measurement | Value                  | Control Limit | Snow-Block Porosity (decp):      | 0.0624                     | 0.02000 - 0.09000 |                         |                             |               |        |         |            |                   |      |      |       |           |
| VERIFIER                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                | Value                            | Control Limit          |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Snow-Block Porosity (decp):                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0624                           | 0.02000 - 0.09000      |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="2">PASS/FAIL SUMMARY</th></tr><tr><td>Background Check:</td><td>Passed</td></tr><tr><td>Gain-Range Check:</td><td>Passed</td></tr><tr><td>Snow-Block Check:</td><td>Passed</td></tr></table>                                                                                                                                                                                                                       |                                  |                        |                             |                         | PASS/FAIL SUMMARY                          |  | Background Check:   | Passed      | Gain-Range Check:      | Passed        | Snow-Block Check:                | Passed                     |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| PASS/FAIL SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Background Check:                                                                                                                                                                                                                                                                                                                                                                                                                          | Passed                           |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Gain-Range Check:                                                                                                                                                                                                                                                                                                                                                                                                                          | Passed                           |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Snow-Block Check:                                                                                                                                                                                                                                                                                                                                                                                                                          | Passed                           |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| DUAL SPACED NEUTRON FIELD CALIBRATION                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Tool Name:                                                                                                                                                                                                                                                                                                                                                                                                                                 | DSNT - 10735145                  |                        | Reference Calibration Date: | 27-Feb-12 13:38:46      |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Engineer:                                                                                                                                                                                                                                                                                                                                                                                                                                  | C. MARLOWE                       |                        | Calibration Date:           | 19-Mar-12 19:43:54      |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Software Version:                                                                                                                                                                                                                                                                                                                                                                                                                          | WL INSITE R3.4.2 (Build 2)       |                        | Calibration Version:        | 1                       |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Logging Source S/N: 954<br>Snow Block S/N: 954                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="5">NEUTRON FIELD-CHECK SUMMARY</th></tr><tr><th></th><th>Shop</th><th>Field</th><th>Difference</th><th>Control Limit On Change</th></tr><tr><td>Snow-Block Porosity (decp):</td><td>0.0624</td><td>0.0476</td><td>-0.0148</td><td>+/- 0.0150</td></tr></table>                                                                                                                                                     |                                  |                        |                             |                         | NEUTRON FIELD-CHECK SUMMARY                |  |                     |             |                        |               | Shop                             | Field                      | Difference        | Control Limit On Change | Snow-Block Porosity (decp): | 0.0624        | 0.0476 | -0.0148 | +/- 0.0150 |                   |      |      |       |           |
| NEUTRON FIELD-CHECK SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | Shop                             | Field                  | Difference                  | Control Limit On Change |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Snow-Block Porosity (decp):                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0624                           | 0.0476                 | -0.0148                     | +/- 0.0150              |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="2">PASS/FAIL SUMMARY</th></tr><tr><td>Block Change Check:</td><td>Passed</td></tr><tr><td>Snow Block Stat Check:</td><td>Passed</td></tr><tr><td>Temperature Check:</td><td>Passed</td></tr></table>                                                                                                                                                                                                               |                                  |                        |                             |                         | PASS/FAIL SUMMARY                          |  | Block Change Check: | Passed      | Snow Block Stat Check: | Passed        | Temperature Check:               | Passed                     |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| PASS/FAIL SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Block Change Check:                                                                                                                                                                                                                                                                                                                                                                                                                        | Passed                           |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Snow Block Stat Check:                                                                                                                                                                                                                                                                                                                                                                                                                     | Passed                           |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Temperature Check:                                                                                                                                                                                                                                                                                                                                                                                                                         | Passed                           |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| DENSITY CALIPER SHOP CALIBRATION                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Tool Name:                                                                                                                                                                                                                                                                                                                                                                                                                                 | SDLT - I145_M73803_P90           |                        | Reference Calibration Date: | 13-Mar-12 07:51:45      |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Engineer:                                                                                                                                                                                                                                                                                                                                                                                                                                  | J. BOLLUM                        |                        | Calibration Date:           | 13-Mar-12 07:57:35      |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| Software Version:                                                                                                                                                                                                                                                                                                                                                                                                                          | WL INSITE R3.4.2 (Build 2)       |                        | Calibration Version:        | 1                       |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| <table><tr><th colspan="5">CALIBRATION COEFFICIENTS</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>                                                                                                                                                                                                                                                                                                                |                                  |                        |                             |                         | CALIBRATION COEFFICIENTS                   |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
| CALIBRATION COEFFICIENTS                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                        |                             |                         |                                            |  |                     |             |                        |               |                                  |                            |                   |                         |                             |               |        |         |            |                   |      |      |       |           |

| Measurement | Previous Value | New Value    | Control Limit On New Value |
|-------------|----------------|--------------|----------------------------|
| Pad Offset  | -2639.33       | -2523.52     | -7000.00 - -1000.00        |
| Pad Gain    | 0.0003736      | 0.0003667    | 0.000200 - 0.000600        |
| Arm Offset  | -2860.63       | -3477.34     | -5000.00 - 3000.00         |
| Arm Gain    | 0.0005039      | 0.0005744    | 0.000300 - 0.000700        |
| Arm Power   | -0.000003830   | -0.000008404 | -0.000010 - 0.000010       |

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)   | 1.99                              | 2.00                    | 0.01   | +/- 0.20                   |
| Medium Ring (in)  | 3.78                              | 3.75                    | -0.03  | +/- 0.20                   |
| RING DIAMETER:    |                                   |                         |        |                            |
| Small Ring (in)   | 6.58                              | 6.50                    | -0.08  | +/- 0.20                   |
| Medium Ring (in)  | 8.18                              | 8.25                    | 0.07   | +/- 0.20                   |
| Large Ring (in)   | 15.05                             | 15.00                   | -0.05  | +/- 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 - I145_M73803_P90     | Reference Calibration Date: | 13-Mar-12 07:57:35 |
| Engineer:                      | C. MARLOWE                 | Calibration Date:           | 19-Mar-12 19:45:09 |
| Software Version:              | WL INSITE R3.4.2 (Build 2) | Calibration Version:        | 1                  |

| MEASURED CALIPER VALUES |      |       |        |                            |
|-------------------------|------|-------|--------|----------------------------|
| Measurement             | Shop | Field | Change | Control Limit On New Value |
| Pad Extension           | 3.75 | 3.75  | 0.00   | +/- 0.10                   |
| Ring Diameter           | 8.25 | 8.25  | -0.00  | +/- 0.15                   |

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

| SPECTRAL DENSITY SHOP CALIBRATION |                            |                             |                    |
|-----------------------------------|----------------------------|-----------------------------|--------------------|
| Tool Name:                        | SDLT Pad - 90              | Reference Calibration Date: | 27-Feb-12 11:07:59 |
| Engineer:                         | T. HYDE                    | Calibration Date:           | 27-Feb-12 11:25:47 |
| Software Version:                 | WL INSITE R3.4.2 (Build 2) | Calibration Version:        | 1                  |

Logging Source S/N: 5073GW

Aluminum Block S/N: LIBERAL

Density: 2.598g/cc

Pe: 3.170

Magnesium Block S/N: LIBERAL

Density: 1.684g/cc

Pe: 2.598

| DENSITY CALIBRATION SUMMARY |                |           |               |
|-----------------------------|----------------|-----------|---------------|
| Measurement                 | Previous Value | New Value | Control Limit |
| Near Bar Gain               | 0.9856         | 0.9682    | 0.90 - 1.10   |
| Near Dens Gain              | 0.9885         | 0.9615    | 0.90 - 1.10   |
| Near Peak Gain              | 0.9735         | 0.9585    | 0.90 - 1.10   |

|                      |        |        |             |
|----------------------|--------|--------|-------------|
| Near Lith Gain       | 0.9731 | 0.9312 | 0.90 - 1.10 |
| Far Bar Gain         | 1.0029 | 1.0019 | 0.90 - 1.10 |
| Far Dens Gain        | 0.9915 | 0.9920 | 0.90 - 1.10 |
| Far Peak Gain        | 0.9841 | 0.9845 | 0.90 - 1.10 |
| Far Lith Gain        | 0.9542 | 0.9507 | 0.90 - 1.10 |
|                      |        |        |             |
| Near Bar Offset      | 0.3137 | 0.4689 | NONE        |
| Near Dens Offset     | 0.2724 | 0.5100 | NONE        |
| Near Peak Offset     | 0.3884 | 0.5102 | NONE        |
| Near Lith Offset     | 0.3734 | 0.7177 | NONE        |
| Far Bar Offset       | 0.0764 | 0.0851 | NONE        |
| Far Dens Offset      | 0.1574 | 0.1521 | NONE        |
| Far Peak Offset      | 0.1642 | 0.1606 | NONE        |
| Far Lith Offset      | 0.3045 | 0.3323 | NONE        |
|                      |        |        |             |
| Near Bar Background  | 888.26 | 884.21 | 700 - 1450  |
| Near Dens Background | 294.87 | 292.50 | 230 - 480   |
| Near Peak Background | 128.25 | 129.52 | 100 - 210   |
| Near Lith Background | 157.60 | 157.77 | 125 - 260   |
| Far Bar Background   | 596.35 | 593.58 | 450 - 900   |
| Far Dens Background  | 234.07 | 233.79 | 175 - 345   |
| Far Peak Background  | 92.13  | 93.24  | 70 - 140    |
| Far Lith Background  | 97.19  | 97.98  | 75 - 145    |

| CALIBRATION BLOCK SUMMARY |                                    |                          |        |                            |
|---------------------------|------------------------------------|--------------------------|--------|----------------------------|
| Measurement               | Current Reading<br>(Previous Coef) | Calibrated<br>(New Coef) | Change | Control Limit<br>On Change |
| MAGNESIUM                 |                                    |                          |        |                            |
| Density (g/cc)            | 1.688                              | 1.684                    | -0.004 | +/- 0.015                  |
| Pe                        | 2.517                              | 2.555                    | 0.038  | +/- 0.150                  |
| ALUMINUM                  |                                    |                          |        |                            |
| Density (g/cc)            | 2.597                              | 2.598                    | 0.001  | +/- 0.01500                |
| Pe                        | 3.140                              | 3.124                    | -0.016 | +/- 0.150                  |

| TOOL SUMMARY               |               |                |              |                |
|----------------------------|---------------|----------------|--------------|----------------|
| Measurement                | Near Detector |                | Far Detector |                |
|                            | Value         | Control Limits | Value        | Control Limits |
| QUALITY                    |               |                |              |                |
| Background                 | 0.0017        | +/- 0.0110     | 0.0029       | +/- 0.0140     |
| Magnesium Block            | -0.0007       | +/- 0.0110     | -0.0011      | +/- 0.0140     |
| Aluminum Block             | 0.0006        | +/- 0.0110     | 0.0010       | +/- 0.0140     |
| Resolution                 | 8.97          | 6.00 - 11.50   | 9.18         | 6.00 - 11.50   |
| Internal Verifier(B+D+P+L) | 1464          | 1200 - 2700    | 1019         | 800 - 1700     |

| PASS/FAIL SUMMARY              |        |
|--------------------------------|--------|
| Background Quality Check:      | Passed |
| Background Range Check:        | Passed |
| Background Resolution Check:   | Passed |
| Background Verification Check: | Passed |
| Magnesium Quality Check:       | Passed |
| Aluminum Quality Check:        | Passed |
| Gains Check:                   | Passed |
| Changes in Calibration Blocks: | Passed |



| SPECTRAL DENSITY FIELD CHECK                         |           |                                                |                                                       |                   |                          |       |
|------------------------------------------------------|-----------|------------------------------------------------|-------------------------------------------------------|-------------------|--------------------------|-------|
| Tool Name: SDLT Pad - 90                             |           | Reference Calibration Date: 27-Feb-12 11:25:47 |                                                       |                   |                          |       |
| Engineer: C. MARLOWE                                 |           | Calibration Date: 19-Mar-12 19:49:00           |                                                       |                   |                          |       |
| Software Version: WL INSITE R3.4.2 (Build 2)         |           | Calibration Version: 1                         |                                                       |                   |                          |       |
| Pad Temperature: 68.2 degF                           |           |                                                |                                                       |                   |                          |       |
| DENSITY FIELD CALIBRATION SUMMARY                    |           |                                                |                                                       |                   |                          |       |
| Measurement                                          | Shop      | Field                                          | Change                                                | Control Limit +/- |                          |       |
| Near (B+D+P+L) cps                                   | 1464.003  | 1461.063                                       | -2.940                                                | 15.430            |                          |       |
| Far (B+D+P+L) cps                                    | 1018.591  | 1014.051                                       | -4.540                                                | 17.036            |                          |       |
| Near Resolution                                      | 8.97      | 9.00                                           | 0.030                                                 | 0.50              |                          |       |
| Far Resolution                                       | 9.18      | 9.10                                           | -0.080                                                | 1.00              |                          |       |
| PASS/FAIL SUMMARY                                    |           |                                                |                                                       |                   |                          |       |
| Bkg Quality Check:                                   |           |                                                | Passed                                                |                   |                          |       |
| Bkg Resolution Check:                                |           |                                                | Passed                                                |                   |                          |       |
| Bkg Verification Check:                              |           |                                                | Passed                                                |                   |                          |       |
| CALIBRATION SUMMARY                                  |           |                                                |                                                       |                   |                          |       |
| Sensor                                               | Shop      | Field                                          | Post                                                  | Difference        | Tolerance                | Units |
| GTET-10811258                                        |           |                                                |                                                       |                   |                          |       |
| Gamma Ray Calibrator                                 | 232.0     | 228.8                                          | -----                                                 | 3.2               | +/- 9.00                 | api   |
| DSNT-10735145                                        |           |                                                |                                                       |                   |                          |       |
| Snow-Block Porosity                                  | 0.0624    | 0.0476                                         | -----                                                 | 0.0148            | +/- 0.0150               | decg  |
| SDLT-I145 M73803 P90                                 |           |                                                |                                                       |                   |                          |       |
| Pad Extension                                        | 3.75      | 3.75                                           | -----                                                 | 0.00              | +/-0.10                  | in    |
| Ring Diameter                                        | 8.25      | 8.25                                           | -----                                                 | 0.000             | +/-0.15                  | in    |
| SDLT Pad-90                                          |           |                                                |                                                       |                   |                          |       |
| Near(B+D+P+L)                                        | 1464.003  | 1461.063                                       | -----                                                 | 2.940             | +/-15.430                | cps   |
| Far(B+D+P+L)                                         | 1018.591  | 1014.051                                       | -----                                                 | 4.540             | +/-17.036                | cps   |
| Data: MILLS_1_29\0001 SP-GTET-DSNT-SDLT-ACRT-CH\IDLE |           |                                                |                                                       |                   | Date: 19-Mar-12 20:09:31 |       |
| 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                                       | 0.450             | ohmm                     |       |
|                                                      | SHARED    | TRM                                            | Temperature of Mud                                    | 95.0              | degF                     |       |
|                                                      | SHARED    | CSD                                            | Logging Interval is Cased?                            | No                |                          |       |
|                                                      | SHARED    | ICOD                                           | AHV Casing OD                                         | 5.500             | in                       |       |
|                                                      | SHARED    | ST                                             | Surface Temperature                                   | 75.0              | degF                     |       |

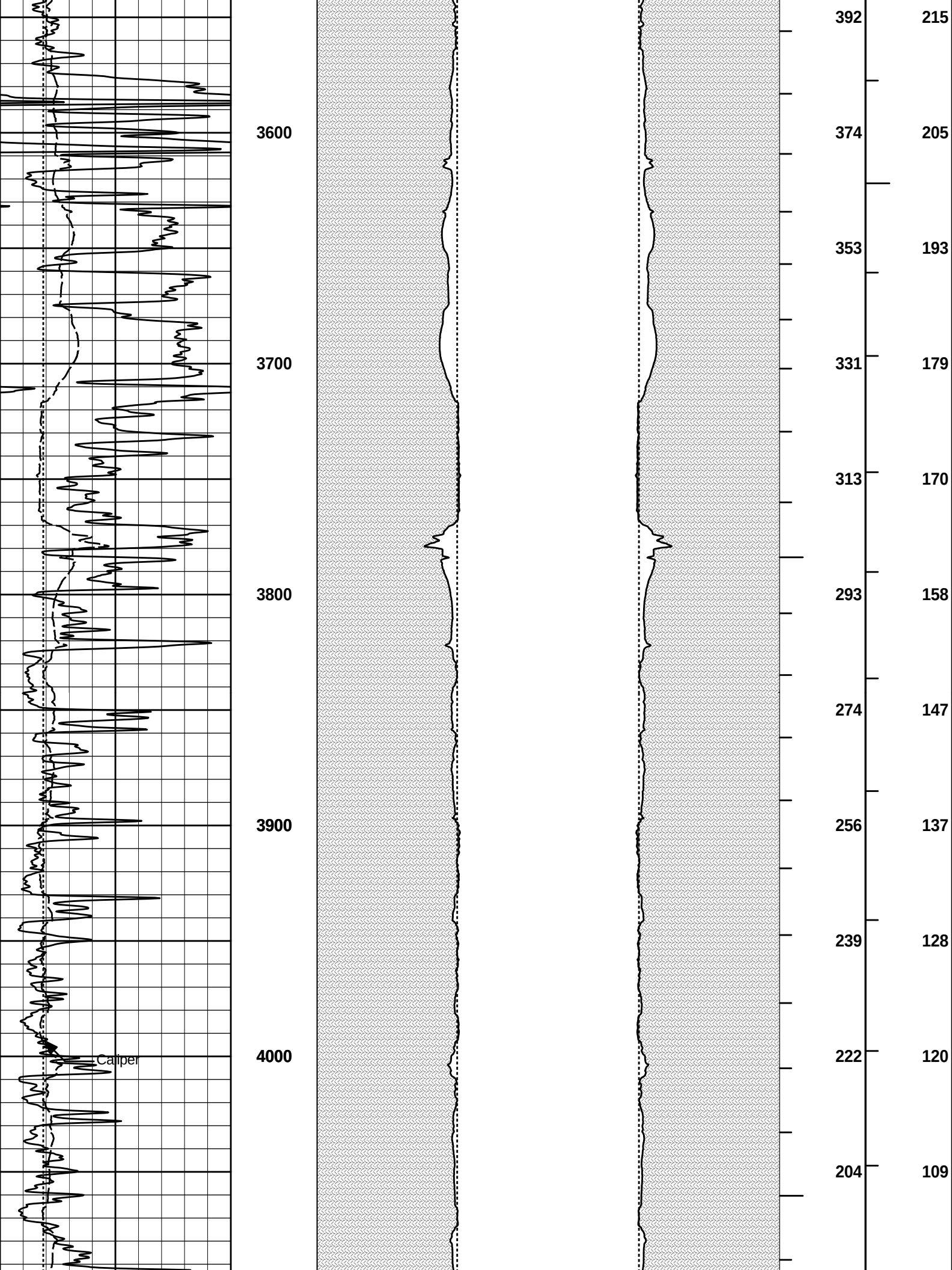
|                 |      |                                              |                 |      |
|-----------------|------|----------------------------------------------|-----------------|------|
| SHARED          | TD   | Total Well Depth                             | 4620.00         | ft   |
| SHARED          | BHT  | Bottom Hole Temperature                      | 120.0           | 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                                | 0.30            | ohmm |
| Rwa / CrossPlot | TMFR | Rmf Ref Temp                                 | 85.00           | degF |
| Rwa / CrossPlot | RWA  | Resistivity of Formation Water               | 0.05            | ohmm |
| Rwa / CrossPlot | ADP  | Use Air Porosity to calculate CrossplotPhi   | No              |      |
| GTET            | GROK | Process Gamma Ray?                           | Yes             |      |
| GTET            | GRSO | Gamma Tool Standoff                          | 0.000           | in   |
| GTET            | GEOK | Process Gamma Ray EVR?                       | No              |      |
| GTET            | TPOS | Tool Position for Gamma Ray Tools.           | Eccentered      |      |
| DSNT            | DNOK | Process DSN?                                 | Yes             |      |
| DSNT            | DEOK | Process DSN EVR?                             | No              |      |
| DSNT            | NLIT | Neutron Lithology                            | Limestone       |      |
| DSNT            | DNSO | DSN Standoff - 0.25 in (6.35 mm) Recommended | 0.250           | in   |
| DSNT            | DNTP | Temperature Correction Type                  | None            |      |
| DSNT            | DPRS | DSN Pressure Correction Type                 | None            |      |
| DSNT            | SHCO | View More Correction Options                 | No              |      |
| DSNT            | UTVD | Use TVD for Gradient Corrections?            | No              |      |
| DSNT            | LHWT | Logging Horizontal Water Tank?               | No              |      |
| SDLT            | CLOK | Process Caliper Outputs?                     | Yes             |      |
| SDLT Pad        | DNOK | Process Density?                             | Yes             |      |
| SDLT Pad        | DNOK | Process Density EVR?                         | No              |      |
| SDLT Pad        | CB   | Logging Calibration Blocks?                  | No              |      |
| SDLT Pad        | SPVT | SDLT Pad Temperature Valid?                  | Yes             |      |
| SDLT Pad        | DTWN | Disable temperature warning                  | No              |      |
| SDLT Pad        | DMA  | Formation Density Matrix                     | 2.710           | g/cc |
| SDLT Pad        | DFL  | Formation Density Fluid                      | 1.000           | g/cc |
| Microlog Pad    | MLOK | Process MicroLog Outputs?                    | Yes             |      |
| 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            |      |

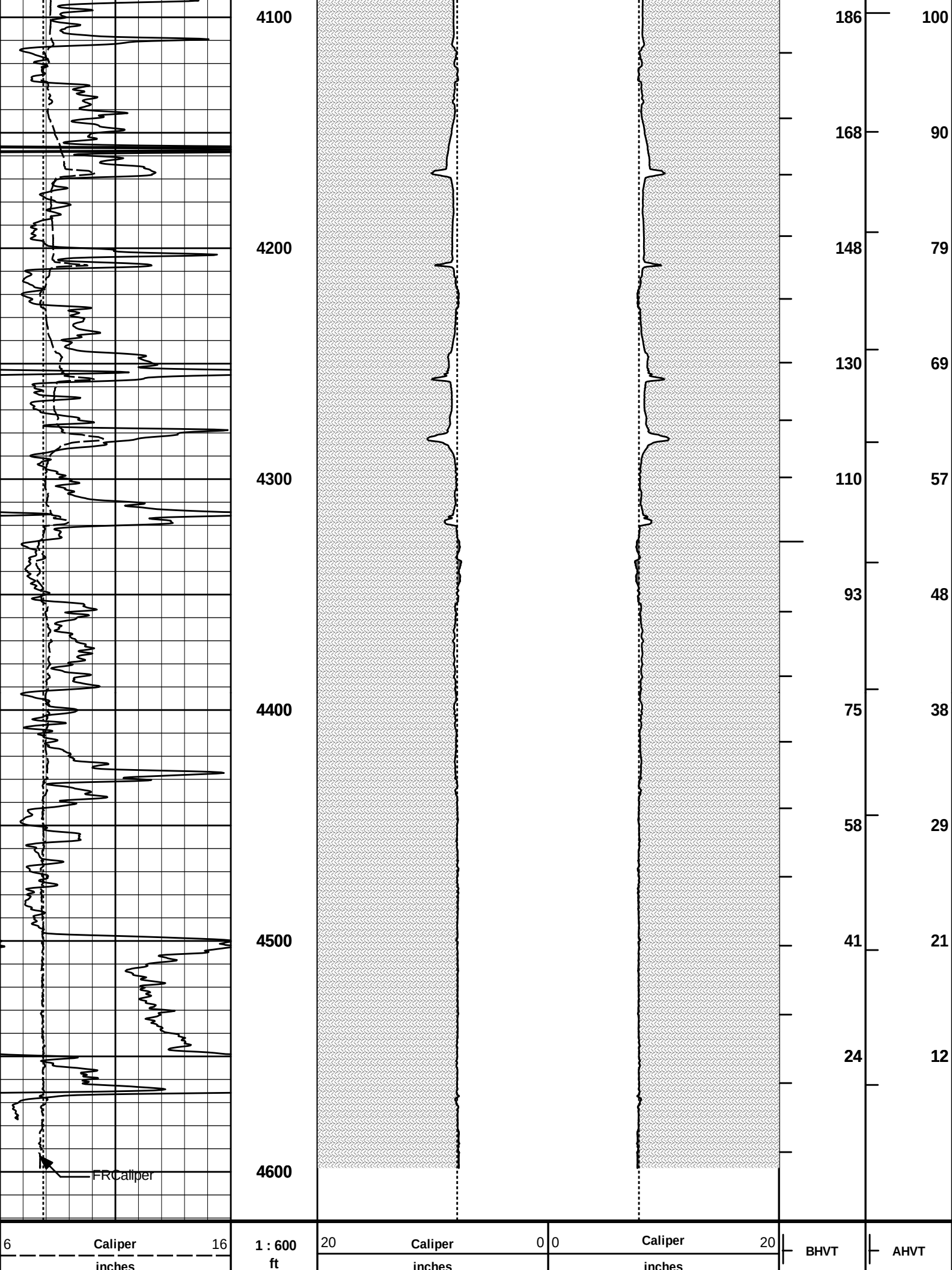
BOTTOM

| 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                                       | 50.81      | NO          |                    |
| SP                               | Spontaneous Potential                                   | 50.81      | BLK         | 1.250              |
| SPR                              | Raw Spontaneous Potential                               | 50.81      | NO          |                    |
| SPO                              | Spontaneous Potential Offset                            | 50.81      | NO          |                    |
| GTET                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 42.79      | NO          |                    |
| GR                               | Natural Gamma Ray API                                   | 42.79      | TRI         | 1.750              |
| GRU                              | Unfiltered Natural Gamma Ray API                        | 42.79      | NO          |                    |
| EGR                              | Natural Gamma Ray API with Enhanced Vertical Resolution | 42.79      | W           | 1.416 , 0.750      |
| ACCZ                             | Accelerometer Z                                         | 0.00       | BLK         | 0.083              |
| DEVI                             | Inclination                                             | 0.00       | NO          |                    |
| DSNT                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 32.54      | NO          |                    |
| RNDS                             | Near Detector Telemetry Counts                          | 32.64      | BLK         | 1.417              |
| RFDS                             | Far Detector Telemetry Counts                           | 33.39      | TRI         | 0.583              |
| DNTT                             | DSN Tool Temperature                                    | 32.64      | NO          |                    |
| DSNS                             | DSN Tool Status                                         | 32.54      | NO          |                    |
| ERND                             | Near Detector Telemetry Counts EVR                      | 32.64      | BLK         | 0.000              |
| ERFD                             | Far Detector Telemetry Counts EVR                       | 33.39      | BLK         | 0.000              |
| ENTM                             | DSN Tool Temperature EVR                                | 32.64      | NO          |                    |
| SDLT                             |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 22.65      | NO          |                    |
| PCAL                             | Pad Caliper                                             | 22.65      | TRI         | 0.250              |
| ACAL                             | Arm Caliper                                             | 22.65      | TRI         | 0.250              |
| ACRt Sonde                       |                                                         |            |             |                    |
| TPUL                             | Tension Pull                                            | 2.97       | NO          |                    |
| F1R1                             | ACRT 12KHz - 80in R value                               | 9.22       | BLK         | 0.000              |
| F1X1                             | ACRT 12KHz - 80in X value                               | 9.22       | BLK         | 0.000              |
| F1R2                             | ACRT 12KHz - 50in R value                               | 6.72       | BLK         | 0.000              |
| F1X2                             | ACRT 12KHz - 50in X value                               | 6.72       | BLK         | 0.000              |
| F1R3                             | ACRT 12KHz - 29in R value                               | 5.22       | BLK         | 0.000              |
| F1X3                             | ACRT 12KHz - 29in X value                               | 5.22       | BLK         | 0.000              |
| F1R4                             | ACRT 12KHz - 17in R value                               | 4.22       | BLK         | 0.000              |
| F1X4                             | ACRT 12KHz - 17in X value                               | 4.22       | BLK         | 0.000              |
| F1R5                             | ACRT 12KHz - 10in R value                               | 3.72       | BLK         | 0.000              |
| F1X5                             | ACRT 12KHz - 10in X value                               | 3.72       | BLK         | 0.000              |
| F1R6                             | ACRT 12KHz - 6in R value                                | 3.47       | BLK         | 0.000              |
| F1X6                             | ACRT 12KHz - 6in X value                                | 3.47       | BLK         | 0.000              |
| F2R1                             | ACRT 36KHz - 80in R value                               | 9.22       | BLK         | 0.000              |
| F2X1                             | ACRT 36KHz - 80in X value                               | 9.22       | BLK         | 0.000              |
| F2R2                             | ACRT 36KHz - 50in R value                               | 6.72       | BLK         | 0.000              |
| F2X2                             | ACRT 36KHz - 50in X value                               | 6.72       | BLK         | 0.000              |
| F2R3                             | ACRT 36KHz - 29in R value                               | 5.22       | BLK         | 0.000              |
| F2X3                             | ACRT 36KHz - 29in X value                               | 5.22       | BLK         | 0.000              |
| F2R4                             | ACRT 36KHz - 17in R value                               | 4.22       | BLK         | 0.000              |

|          |                                               |       |     |       |
|----------|-----------------------------------------------|-------|-----|-------|
| F2X4     | ACRT 36KHz - 17in X value                     | 4.22  | BLK | 0.000 |
| F2R5     | ACRT 36KHz - 10in R value                     | 3.72  | BLK | 0.000 |
| F2X5     | ACRT 36KHz - 10in X value                     | 3.72  | BLK | 0.000 |
| F2R6     | ACRT 36KHz - 6in R value                      | 3.47  | BLK | 0.000 |
| F2X6     | ACRT 36KHz - 6in X value                      | 3.47  | BLK | 0.000 |
| F3R1     | ACRT 72KHz - 80in R value                     | 9.22  | BLK | 0.000 |
| F3X1     | ACRT 72KHz - 80in X value                     | 9.22  | BLK | 0.000 |
| F3R2     | ACRT 72KHz - 50in R value                     | 6.72  | BLK | 0.000 |
| F3X2     | ACRT 72KHz - 50in X value                     | 6.72  | BLK | 0.000 |
| F3R3     | ACRT 72KHz - 29in R value                     | 5.22  | BLK | 0.000 |
| F3X3     | ACRT 72KHz - 29in X value                     | 5.22  | BLK | 0.000 |
| F3R4     | ACRT 72KHz - 17in R value                     | 4.22  | BLK | 0.000 |
| F3X4     | ACRT 72KHz - 17in X value                     | 4.22  | BLK | 0.000 |
| F3R5     | ACRT 72KHz - 10in R value                     | 3.72  | BLK | 0.000 |
| F3X5     | ACRT 72KHz - 10in X value                     | 3.72  | BLK | 0.000 |
| F3R6     | ACRT 72KHz - 6in R value                      | 3.47  | BLK | 0.000 |
| F3X6     | ACRT 72KHz - 6in X value                      | 3.47  | BLK | 0.000 |
| RMUD     | Mud Resistivity                               | 12.76 | BLK | 0.000 |
| F1RT     | Transmitter Reference 12 KHz Real Signal      | 2.97  | BLK | 0.000 |
| F1XT     | Transmitter Reference 12 KHz Imaginary Signal | 2.97  | BLK | 0.000 |
| F2RT     | Transmitter Reference 36 KHz Real Signal      | 2.97  | BLK | 0.000 |
| F2XT     | Transmitter Reference 36 KHz Imaginary Signal | 2.97  | BLK | 0.000 |
| F3RT     | Transmitter Reference 72 KHz Real Signal      | 2.97  | BLK | 0.000 |
| F3XT     | Transmitter Reference 72 KHz Imaginary Signal | 2.97  | BLK | 0.000 |
| TFPU     | Upper Feedpipe Temperature Calculated         | 2.97  | BLK | 0.000 |
| TFPL     | Lower Feedpipe Temperature Calculated         | 2.97  | BLK | 0.000 |
| ITMP     | Instrument Temperature                        | 2.97  | BLK | 0.000 |
| TCVA     | Temperature Correction Values Loop Off        | 2.97  | NO  |       |
| TIDV     | Instrument Temperature Derivative             | 2.97  | NO  |       |
| TUDV     | Upper Temperature Derivative                  | 2.97  | NO  |       |
| TLDV     | Lower Temperature Derivative                  | 2.97  | NO  |       |
| TRBD     | Receiver Board Temperature                    | 2.97  | NO  |       |
|          |                                               |       |     |       |
| SDLT Pad |                                               |       |     |       |
| TPUL     | Tension Pull                                  | 22.64 | NO  |       |
| NAB      | Near Above                                    | 22.46 | BLK | 0.920 |
| NHI      | Near Cesium High                              | 22.46 | BLK | 0.920 |
| NLO      | Near Cesium Low                               | 22.46 | BLK | 0.920 |
| NVA      | Near Valley                                   | 22.46 | BLK | 0.920 |
| NBA      | Near Barite                                   | 22.46 | BLK | 0.920 |
| NDE      | Near Density                                  | 22.46 | BLK | 0.920 |
| NPK      | Near Peak                                     | 22.46 | BLK | 0.920 |
| NLI      | Near Lithology                                | 22.46 | BLK | 0.920 |
| NBAU     | Near Barite Unfiltered                        | 22.46 | BLK | 0.250 |
| NLIU     | Near Lithology Unfiltered                     | 22.46 | BLK | 0.250 |
| FAB      | Far Above                                     | 22.81 | BLK | 0.250 |
| FHI      | Far Cesium High                               | 22.81 | BLK | 0.250 |
| FLO      | Far Cesium Low                                | 22.81 | BLK | 0.250 |
| FVA      | Far Valley                                    | 22.81 | BLK | 0.250 |
| FBA      | Far Barite                                    | 22.81 | BLK | 0.250 |
| FDE      | Far Density                                   | 22.81 | BLK | 0.250 |
| FPK      | Far Peak                                      | 22.81 | BLK | 0.250 |
| FLI      | Far Lithology                                 | 22.81 | BLK | 0.250 |
| PTMP     | Pad Temperature                               | 22.65 | BLK | 0.920 |
| NHV      | Near Detector High Voltage                    | 22.04 | NO  |       |
| FHV      | Far Detector High Voltage                     | 22.04 | NO  |       |

|                                                            |                        |       |                                 |       |
|------------------------------------------------------------|------------------------|-------|---------------------------------|-------|
| ITMP                                                       | Instrument Temperature | 22.04 | NO                              |       |
| DDHV                                                       | Detector High Voltage  | 22.04 | NO                              |       |
| <b>Microlog Pad</b>                                        |                        |       |                                 |       |
| TPUL                                                       | Tension Pull           | 22.83 | NO                              |       |
| MINV                                                       | Microlog Lateral       | 22.83 | BLK                             | 0.750 |
| MNOR                                                       | Microlog Normal        | 22.83 | BLK                             | 0.750 |
| <b>Data: MILLS_1_29\0001 SP-GTET-DSNT-SDLT-ACRT-CHIDLE</b> |                        |       | <b>Date: 19-Mar-12 20:54:47</b> |       |





|                                                                                                                                                                                                                                                                                                                                                                |           |     |  |    |                                                |   |   |          |    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|--|----|------------------------------------------------|---|---|----------|----|--|
| 6                                                                                                                                                                                                                                                                                                                                                              | BS        | 16  |  | 20 | Bit Size                                       | 0 | 0 | Bit Size | 20 |  |
|                                                                                                                                                                                                                                                                                                                                                                | inches    |     |  |    |                                                |   |   |          |    |  |
| 0                                                                                                                                                                                                                                                                                                                                                              | Gamma API | 150 |  |    | MUDCAKE                                        |   |   | MUDCAKE  |    |  |
|                                                                                                                                                                                                                                                                                                                                                                | api       |     |  |    |                                                |   |   |          |    |  |
| <div> <div>HALLIBURTON</div> <div>           Plot Time: 19-Mar-12 21:33:56<br/>           Plot Range: 3236 ft to 4621 ft<br/>           Data: MILLS_1_29\Well Based\DAQ-0001-004\<br/>           Plot File: \\-LOCAL-MILLS_1_29\0001 SP-GTET-DSNT-SDLT-ACRT-CH\PORO\AHV_5_5_INCH_2_IQ_LIB         </div> </div> <div>ANNULAR HOLE VOLUME PLOT (5.5 INCH)</div> |           |     |  |    |                                                |   |   |          |    |  |
| <div> <div>COMPANY</div> <div>VAL ENERGY INC.</div> </div> <div> <div>WELL</div> <div>MILLS 1-29</div> </div> <div> <div>FIELD</div> <div>UNKNOWN</div> </div> <div> <div>COUNTY</div> <div>BARBER</div> <div>STATE</div> <div>KANSAS</div> </div>                                                                                                             |           |     |  |    |                                                |   |   |          |    |  |
| HALLIBURTON                                                                                                                                                                                                                                                                                                                                                    |           |     |  |    | DUEL SPACED NEUTRON<br>SPECTRAL DENSITY<br>LOG |   |   |          |    |  |