

HALLIBURTON

SPECTRAL DENSITY  
DUAL SPACED NEUTRON

|                          |  |                               |  |
|--------------------------|--|-------------------------------|--|
| COMPANY                  |  | Koch Exploration Company, LLC |  |
| WELL                     |  | AHU WYATT 25-43 SWD           |  |
| FIELD/BLOCK              |  | WHITE RIVER DOME              |  |
| COUNTY                   |  | RIO BLANCO                    |  |
| STATE                    |  | COLORADO                      |  |
| Permanent Datum          |  | GL                            |  |
| Log measured from        |  | KB                            |  |
| Drilling measured from   |  | KB                            |  |
| Date                     |  | 26-Sep-13                     |  |
| Run No.                  |  | ONE                           |  |
| Depth - Driller          |  | 3502.00 ft                    |  |
| Depth - Logger           |  | 3499.0 ft                     |  |
| Bottom - Logged Interval |  | 3454.0 ft                     |  |
| Top - Logged Interval    |  | 1136.0 ft                     |  |
| Casing - Driller         |  | 8.625 in @ 1128.0 ft          |  |
| Casing - Logger          |  | 1136.0 ft                     |  |
| Bit Size                 |  | 8.750 in @                    |  |
| Type Fluid in Hole       |  | WBM                           |  |
| Density                  |  | 9.2 ppg                       |  |
| Viscosity                |  | 52.00 s/qt                    |  |
| PH                       |  | 9.40 pH                       |  |
| Fluid Loss               |  | 9.0 cpm                       |  |
| Source of Sample         |  | MUD TANK                      |  |
| Rm @ Meas. Temperature   |  | 1.800 ohmm @ 87.20 degF       |  |
| Rmf @ Meas. Temperature  |  | 1.17 ohmm @ 87.20 degF        |  |
| Rmc @ Meas. Temperature  |  | 1.630 ohmm @ 75.70 degF       |  |
| Source Rmf               |  | MEAS                          |  |
| Rmc                      |  | MEAS                          |  |
| Rm @ BHT                 |  | 1.41 ohmm @ 113.0 degF        |  |
| Time Since Circulation   |  | 6.4 hr                        |  |
| Time on Bottom           |  | 26-Sep-13 09:22               |  |
| Max. Rec. Temperature    |  | 113.0 degF @ N/A              |  |
| Equipment                |  | 11170614                      |  |
| Location                 |  | ROCK SPRING                   |  |
| Recorded By              |  | V. CREWS                      |  |
| Witnessed By             |  | N. NAEVE                      |  |

|   |  |            |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
|---|--|------------|--|--------------------------------|--|----------------------------|--|--|--|---------------|--|-----------------|--|-------------|--|
| Service Ticket No.: 900770093           |  |            |  | API Serial No.: 05103119610000 |  |                            |  | PGM Version: WL INSITE R3.8.10 (Build 5) |  |               |  |                 |  |             |  |
| CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE |  |            |  |                                |  | RESISTIVITY SCALE CHANGES  |  |  |  |               |  |                 |  |             |  |
| Date                                    |  | Sample No. |  |                                |  | Type Log                   |  | Depth                                    |  | Scale Up Hole |  | Scale Down Hole |  |             |  |
| Depth-Driller                           |  |            |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
| Type Fluid in Hole                      |  |            |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
| Density                                 |  | Viscosity  |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
| Ph                                      |  | Fluid Loss |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
| Source of Sample                        |  |            |  |                                |  | RESISTIVITY EQUIPMENT DATA |  |  |  |               |  |                 |  |             |  |
| Rm @ Meas. Temp                         |  | @          |  | @                              |  | Run No.                    |  | Tool Type & No.                          |  | Pad Type      |  | Tool Pos.       |  | Other       |  |
| Rmf @ Meas. Temp.                       |  | @          |  | @                              |  | ONE                        |  | ACRT -                                   |  | N/A           |  | FREE            |  | N/A         |  |
| Rmc @ Meas. Temp.                       |  | @          |  | @                              |  |                            |  | E267_S684                                |  |               |  |                 |  |             |  |
| Source Rmf                              |  | Rmc        |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
| Rm @ BHT                                |  | @          |  | @                              |  |                            |  |  |  |               |  |                 |  |             |  |
| Rmf @ BHT                               |  | @          |  | @                              |  |                            |  |  |  |               |  |                 |  |             |  |
| Rmc @ BHT                               |  | @          |  | @                              |  |                            |  |  |  |               |  |                 |  |             |  |
| EQUIPMENT DATA                          |  |            |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |
| GAMMA                                   |  |            |  | ACOUSTIC                       |  |                            |  | DENSITY                                  |  |               |  | NEUTRON         |  |             |  |
| Run No.                                 |  | ONE        |  | Run No.                        |  | ONE                        |  | Run No.                                  |  | ONE           |  | Run No.         |  | ONE         |  |
| Serial No.                              |  | 10843477   |  | Serial No.                     |  | 11105782                   |  | Serial No.                               |  | 11014275      |  | Serial No.      |  | 10846353    |  |
| Model No.                               |  | GTET       |  | Model No.                      |  | BSAT                       |  | Model No.                                |  | SDLT          |  | Model No.       |  | DSNT        |  |
| Diameter                                |  | 3.625"     |  | No. of Cent.                   |  | 2                          |  | Diameter                                 |  | 4.5"          |  | Diameter        |  | 3.625"      |  |
| Detector Model No.                      |  | GTET       |  | Spacing                        |  | 0.5'                       |  | Log Type                                 |  | GAM-GAM       |  | Log Type        |  | THERM-THERM |  |
| Type                                    |  | SCINT      |  |                                |  |                            |  | Source Type                              |  | Cs137         |  | Source Type     |  | Am241Be     |  |
| Length                                  |  | 8"         |  | LSA [Y/N]                      |  |                            |  | Serial No.                               |  | 5235GW        |  | Serial No.      |  | 08-018      |  |
| Distance to Source                      |  | 10'        |  | FWDA [Y/N]                     |  |                            |  | Strength                                 |  | 1.78 Ci       |  | Strength        |  | 15.0 Ci     |  |
| LOGGING DATA                            |  |            |  |                                |  |                            |  |  |  |               |  |                 |  |             |  |

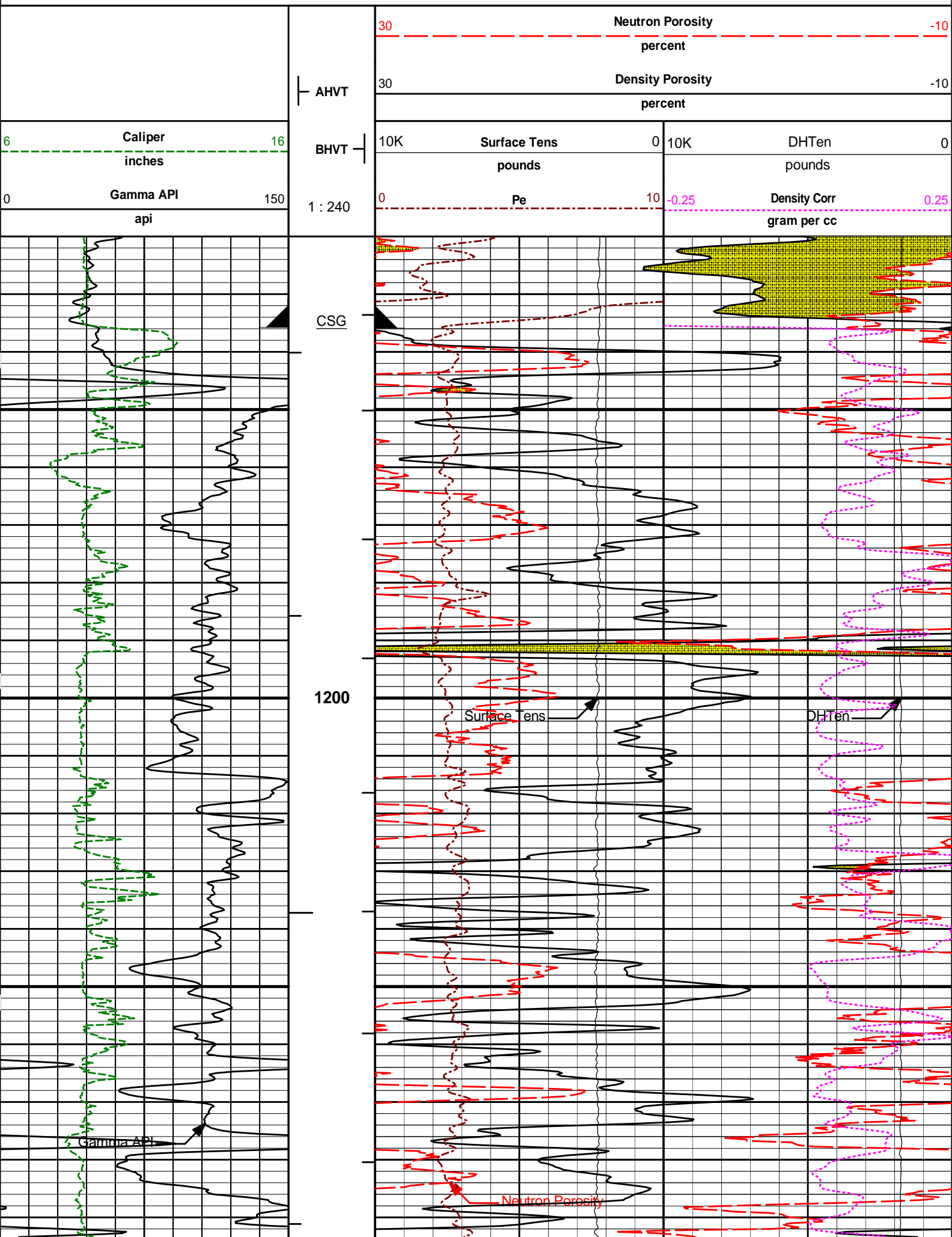
| GENERAL   |       |      | GAMMA  |       | ACOUSTIC |       |   | DENSITY          |       |      | NEUTRON   |       |      |        |
|---|-------|------|--------|-------|----------|-------|---|------------------|-------|------|-----------|-------|------|--------|
| Run   | Depth |      | Speed  | Scale |          | Scale |   | Matrix           | Scale |      | Matrix    | Scale |      | Matrix |
| No.   | From  | To   | ft/min | L     | R        | L     | R |                  | L     | R    |           | L     | R    |        |
| ONE   | 3499' | 100' | REC    | 0     | 150      |       |   |                  | 30%   | -10% | 2.65 g/cc | 30%   | -10% | SAND   |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| DIRECTIONAL INFORMATION   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| Maximum Deviation @   |       |      |        |       |          |       |   | KOP @            |       |      |           |       |      |        |
| Remarks: RWCH-CCL-GTET-DSNT-SDLT-FLEX-BSAT-ACRT RAN IN COMBINATION  |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| BOREHOLE RUGOSITY, TENSION PULLS, AND WASHOUTS MAY EFFECT LOG QUALITY   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| ANNULAR HOLE VOLUME CALCULATED FOR 7-INCH CASING  |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| LATITUDE: 40.106933   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| LONGITUDE: -108.224175  |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
|   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| TODAY'S CREW: J. DAVIS & J. HARBISON  |       |      |        |       |          |       |   | RIG: CAPSTAR 311 |       |      |           |       |      |        |
| *** THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, ROCK SPRINGS, WY (307) 356-8600 ***   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF. |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |
| HALLIBURTON   |       |      |        |       |          |       |   |                  |       |      |           |       |      |        |

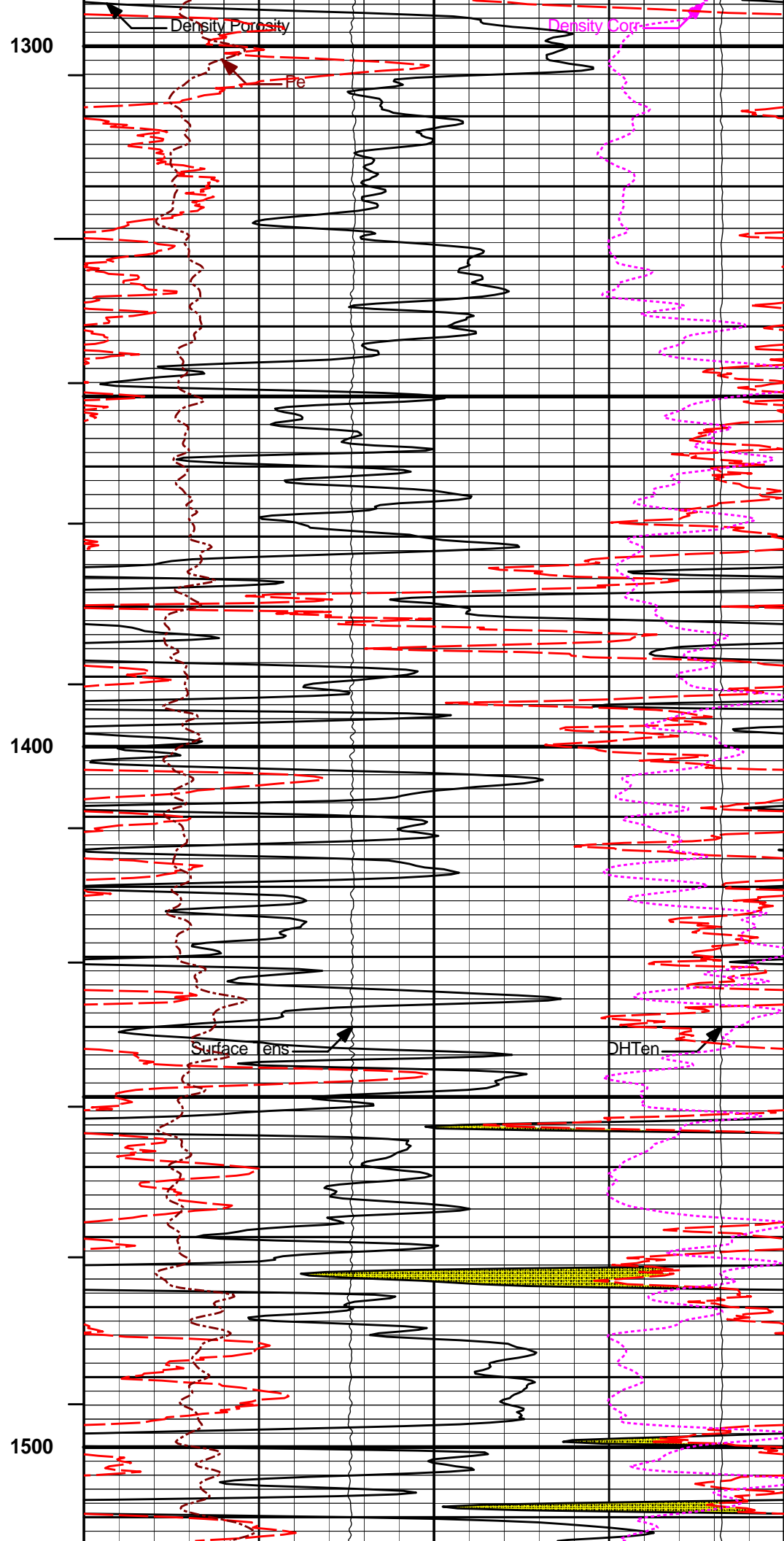
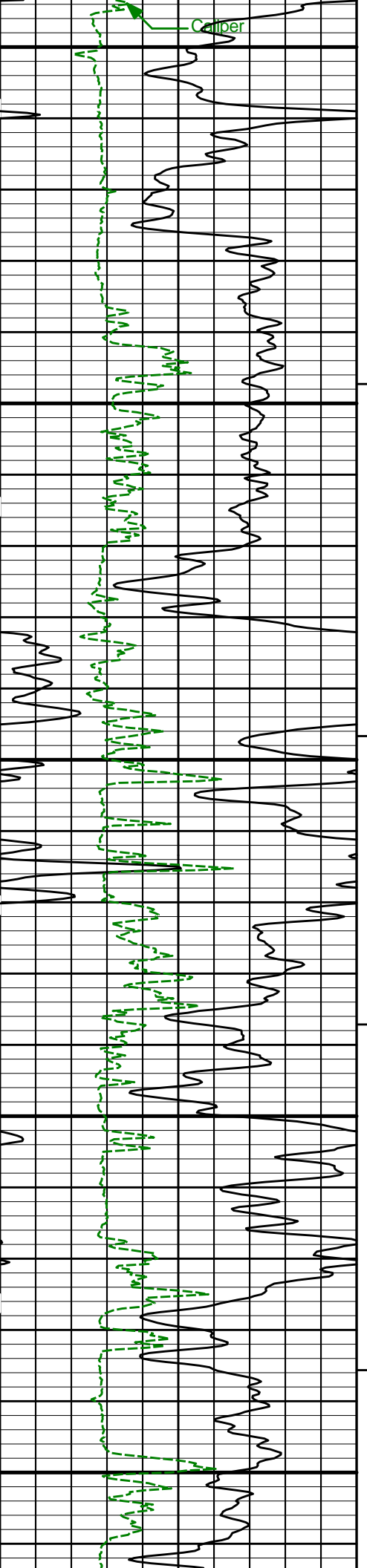
HALLIBURTON

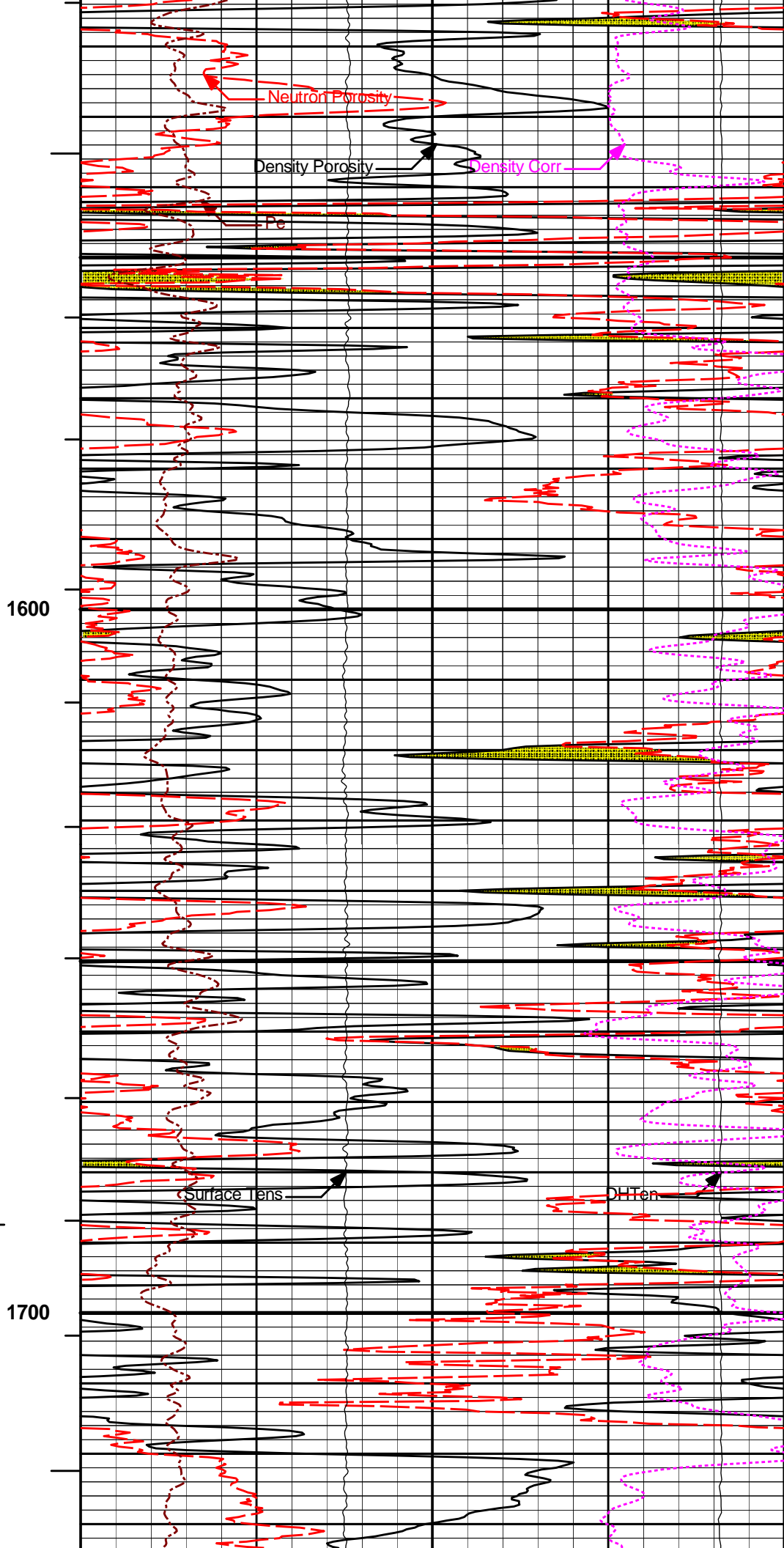
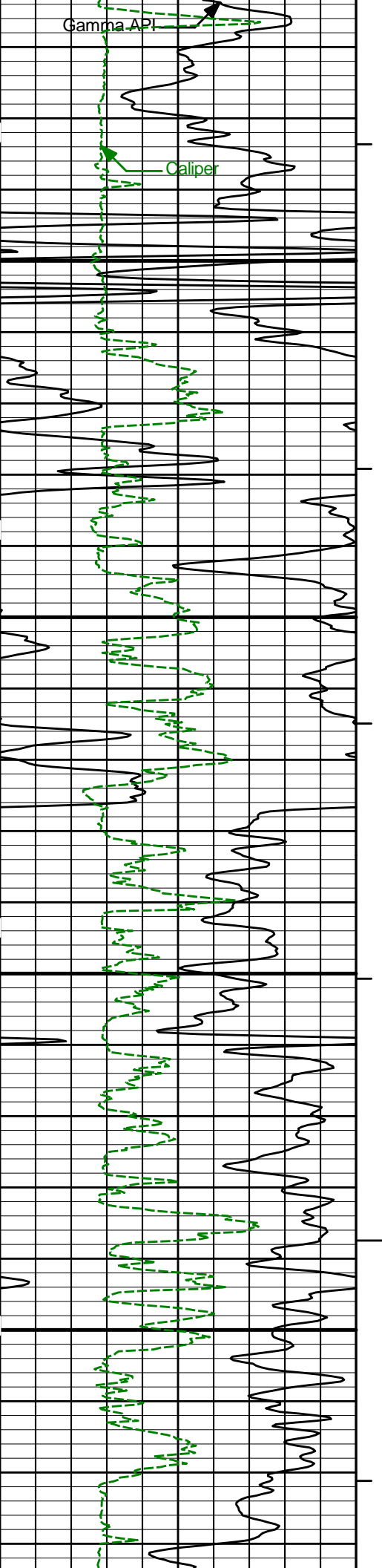
PARAMETERS REPORT

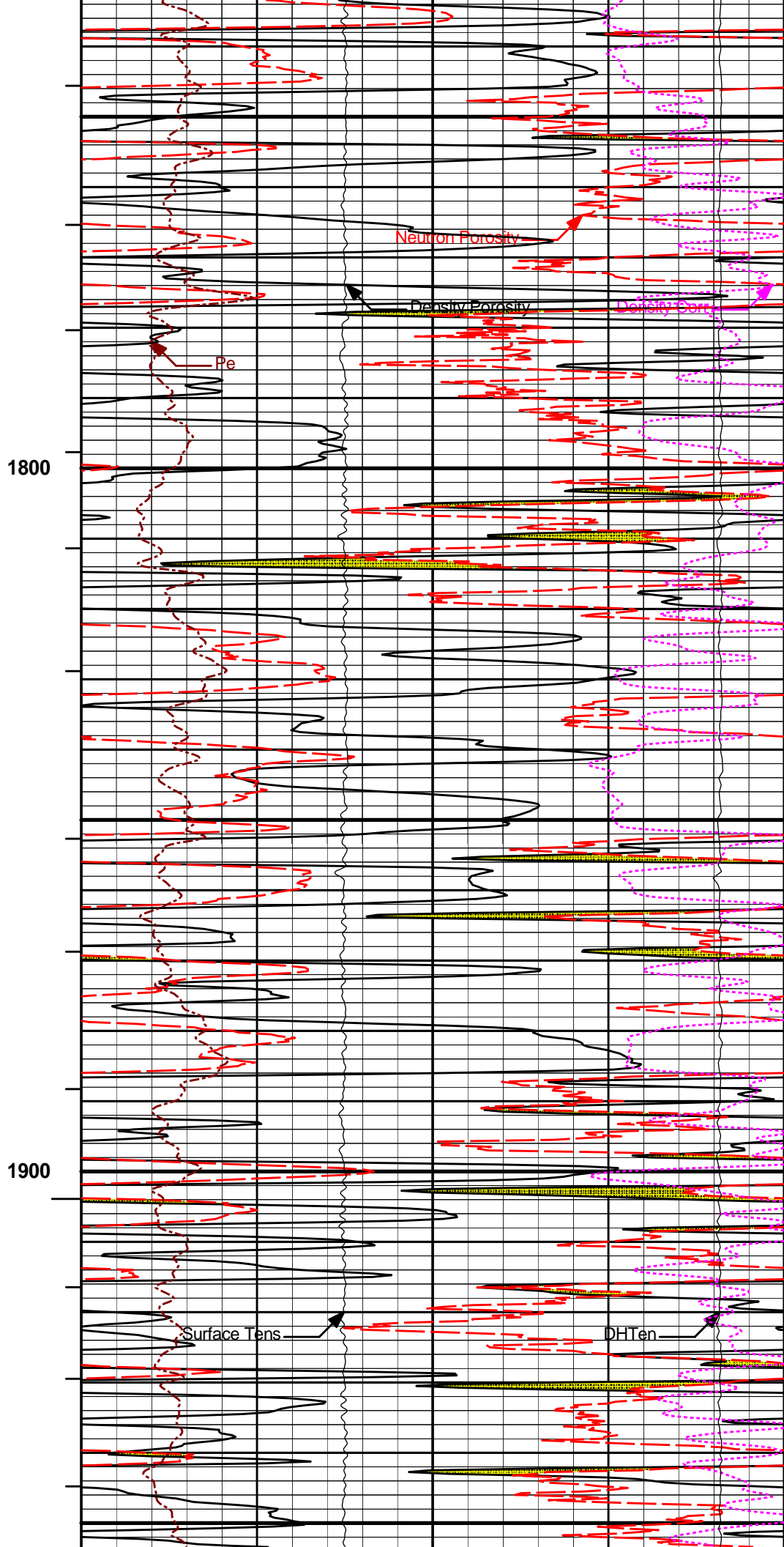
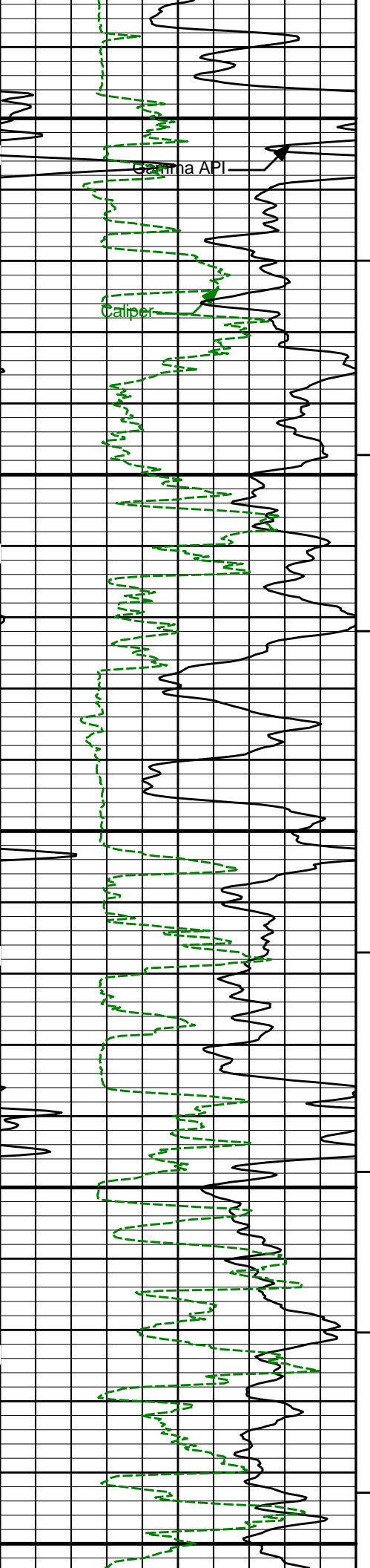
| Depth (ft) | Tool Name       | Description   | Value     | Units |
|------------|-----------------|---|-----------|-------|
| TOP        |                 |   |           |       |
|            | SHARED          | Bit Size  | 8.750     | in    |
|            | SHARED          | Use Bit Size instead of Caliper for all applications. | No        |       |
|            | SHARED          | Mud Base  | Water     |       |
|            | SHARED          | Borehole Fluid Weight                                 | 9.200     | ppg   |
|            | SHARED          | Weighting Agent                                       | Barite    |       |
|            | SHARED          | Borehole salinity                                     | 0.00      | ppm   |
|            | SHARED          | Formation Salinity NaCl                               | 0.00      | ppm   |
|            | SHARED          | Percent K in Mud by Weight?                           | 0.00      | %     |
|            | SHARED          | Mud Resistivity                                       | 1.800     | ohmm  |
|            | SHARED          | Temperature of Mud                                    | 87.2      | degF  |
|            | SHARED          | Logging Interval is Cased?                            | No        |       |
|            | SHARED          | AHV Casing OD   | 7.000     | in    |
|            | SHARED          | Surface Temperature                                   | 67.0      | degF  |
|            | SHARED          | Total Well Depth                                      | 3499.00   | ft    |
|            | SHARED          | Bottom Hole Temperature                               | 113.0     | degF  |
|            | SHARED          | Navigation and Survey Master Tool                     | NONE      |       |
|            | SHARED          | High Res Z Accelerometer Master Tool                  | GTET      |       |
|            | SHARED          | Temperature Master Tool                               | NONE      |       |
|            | SHARED          | Borehole Size Master Tool                             | NONE      |       |
|            | Rwa / CrossPlot | Process Crossplot?                                    | Yes       |       |
|            | Rwa / CrossPlot | Select Source of F                                    | Automatic |       |
|            | Rwa / CrossPlot | Archie A factor                                       | 0.6200    |       |
|            | Rwa / CrossPlot | Archie M factor                                       | 2 1500    |       |

|                 |  |                |      |
|-----------------|--|----------------|------|
| Rwa / CrossPlot | Rmf Reference                                | 0.10           | ohmm |
| Rwa / CrossPlot | Rmf Ref Temp                                 | 75.00          | degF |
| Rwa / CrossPlot | Resistivity of Formation Water               | 0.05           | ohmm |
| Rwa / CrossPlot | Use Air Porosity to calculate CrossplotPhi   | No             |      |
| CCL-D           | Process CCL?                                 | Yes            |      |
| CCL-D           | CCL Processing Selection                     | Raw            |      |
| GTET            | Process Gamma Ray?                           | Yes            |      |
| GTET            | Gamma Tool Standoff                          | 0.000          | in   |
| GTET            | Process Gamma Ray EVR?                       | No             |      |
| GTET            | Tool Position for Gamma Ray Tools.           | Eccentered     |      |
| DSNT            | Process DSN?                                 | Yes            |      |
| DSNT            | Process DSN EVR?                             | No             |      |
| DSNT            | Neutron Lithology                            | Sandstone      |      |
| DSNT            | DSN Standoff - 0.25 in (6.35 mm) Recommended | 0.250          | in   |
| DSNT            | Temperature Correction Type                  | None           |      |
| DSNT            | DSN Pressure Correction Type                 | None           |      |
| DSNT            | View More Correction Options                 | No             |      |
| DSNT            | Use TVD for Gradient Corrections?            | No             |      |
| DSNT            | Logging Horizontal Water Tank?               | No             |      |
| SDLT            | Process Caliper Outputs?                     | Yes            |      |
| SDLT Pad        | Process Density?                             | Yes            |      |
| SDLT Pad        | Process Density EVR?                         | No             |      |
| SDLT Pad        | Logging Calibration Blocks?                  | No             |      |
| SDLT Pad        | SDLT Pad Temperature Valid?                  | Yes            |      |
| SDLT Pad        | Disable temperature warning                  | No             |      |
| SDLT Pad        | Formation Density Matrix                     | 2.650          | g/cc |
| SDLT Pad        | Formation Density Fluid                      | 1.000          | g/cc |
| BSAT            | Compute BCAS Results?                        | Yes            |      |
| BSAT            | Frequency Filter Low Pass Value?             | 5000           | Hz   |
| BSAT            | Frequency Filter High Pass Value?            | 27000          | Hz   |
| BSAT            | Delta -T Fluid                               | 189.00         | uspf |
| BSAT            | Delta -T Matrix Type                         | Sandstone 55.5 |      |
| BSAT            | Delta -T Shale                               | 100.00         | uspf |
| BSAT            | Acoustic Porosity Equation                   | Wylie          |      |
| ACRt Sonde      | Process ACRt?                                | Yes            |      |
| ACRt Sonde      | Minimum Tool Standoff                        | 1.50           | in   |
| ACRt Sonde      | Temperature Correction Source                | FP Lwr & FP Up |      |
| ACRt Sonde      | Tool Position                                | Free Hanging   |      |
| ACRt Sonde      | Rmud Source                                  | Mud Cell       |      |
| ACRt Sonde      | Minimum Resistivity for MAP                  | 0.20           | ohmm |
| ACRt Sonde      | Maximum Resistivity for MAP                  | 200.00         | ohmm |
| ACRt Sonde      | Threshold Quality                            | 0.50           |      |
| ACRt Sonde      | Fixed mud resistivity                        | 2000           | ohmm |

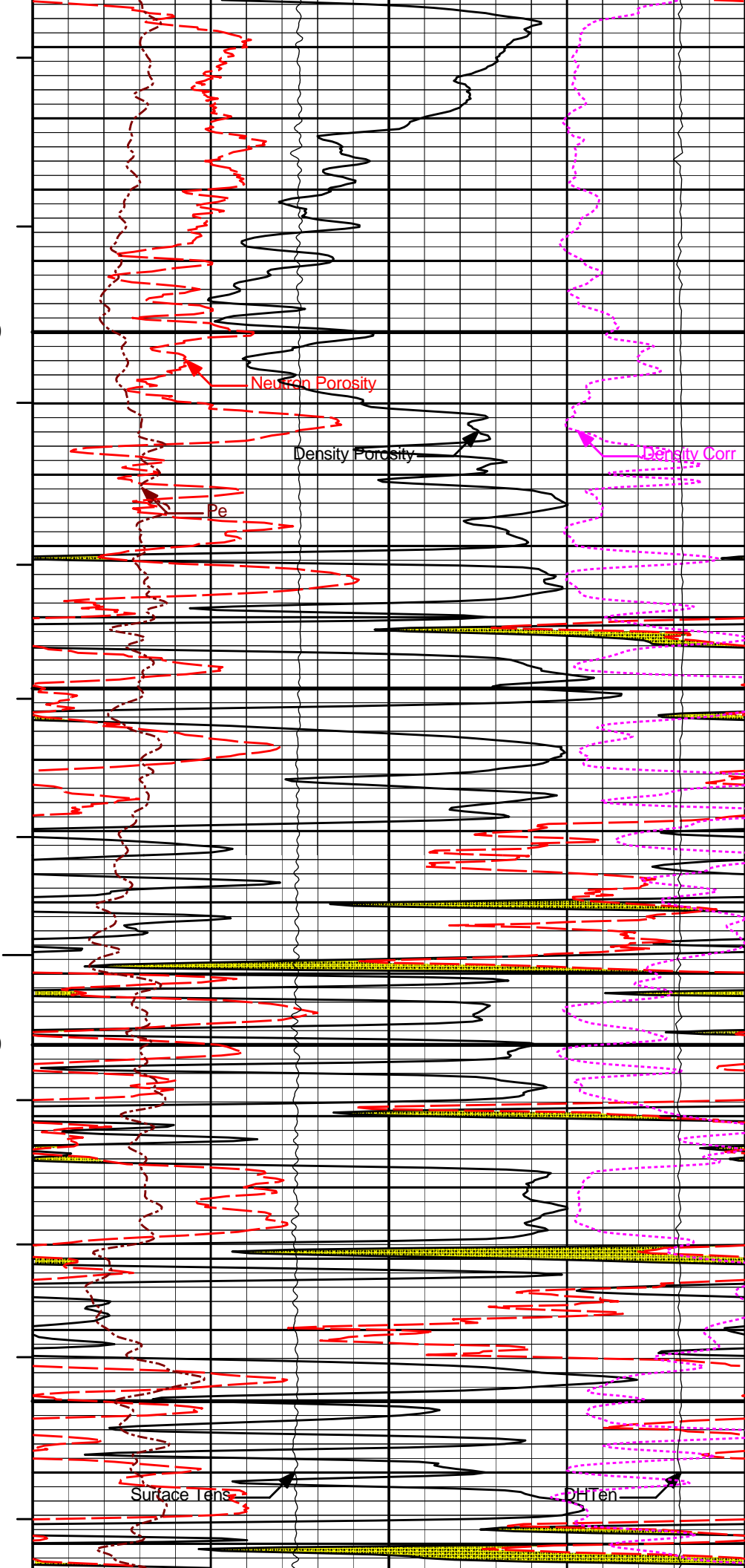
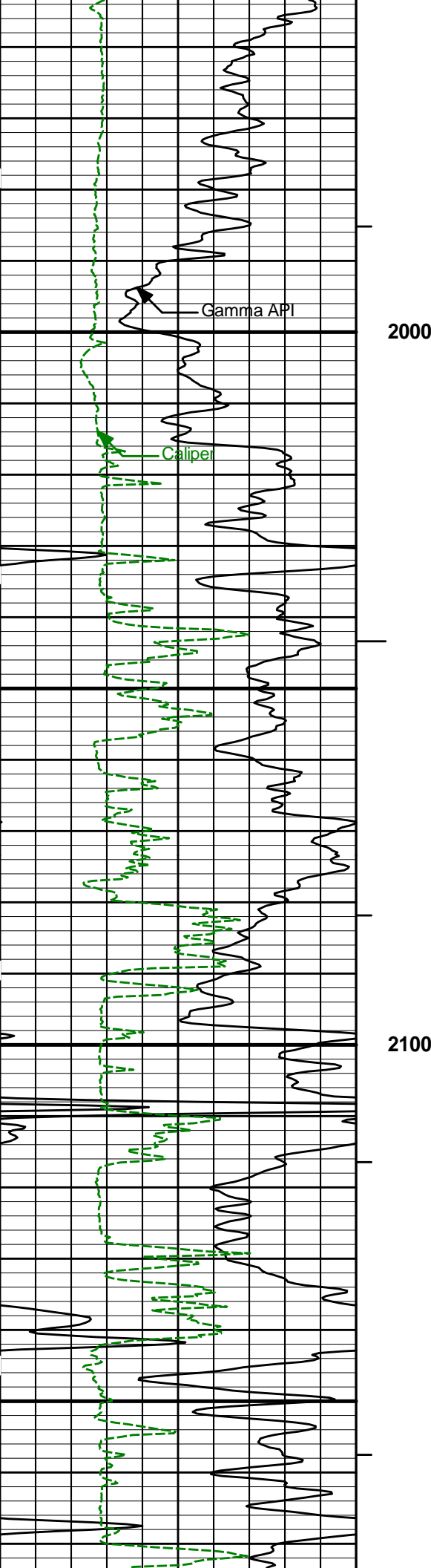




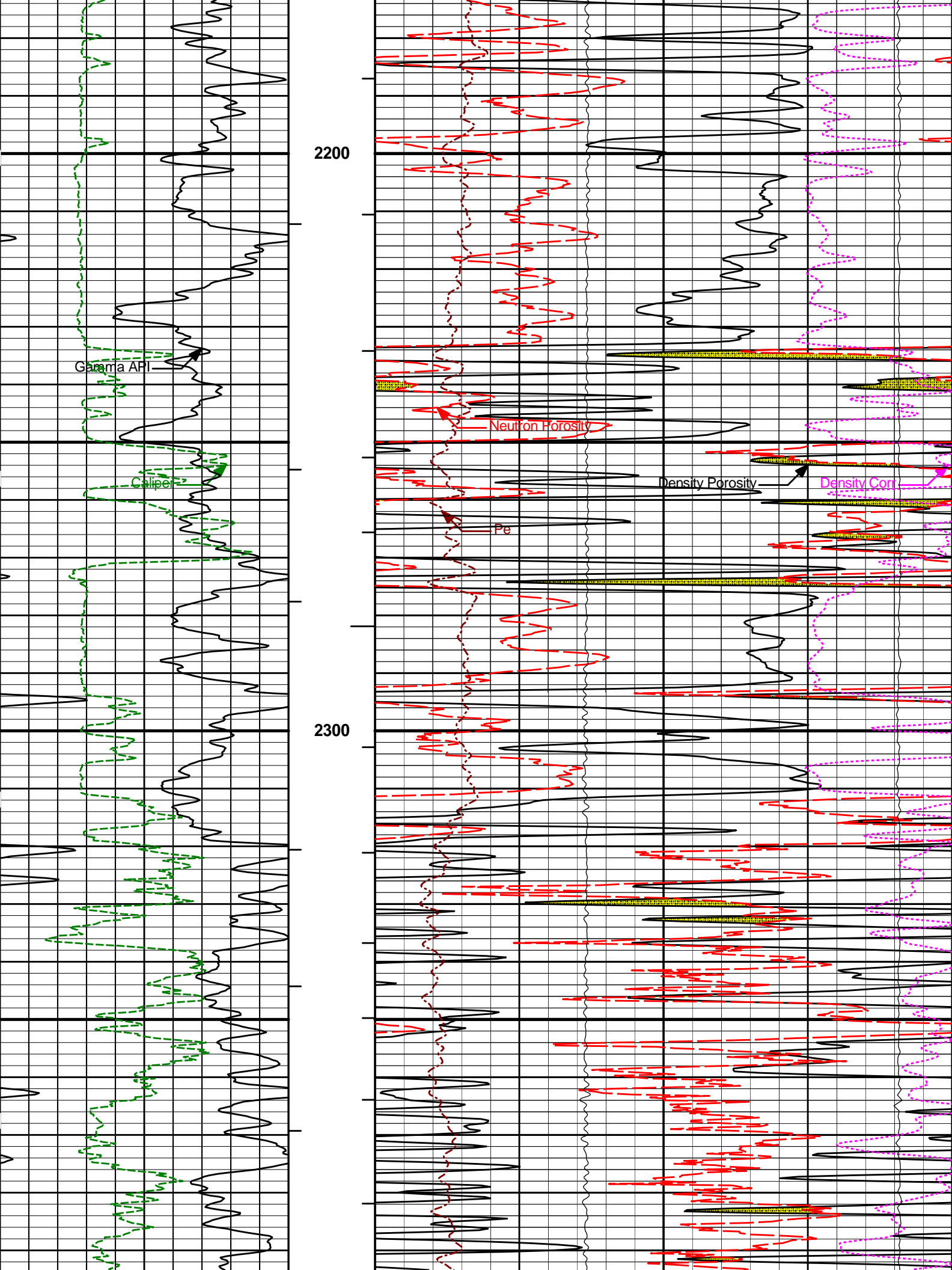


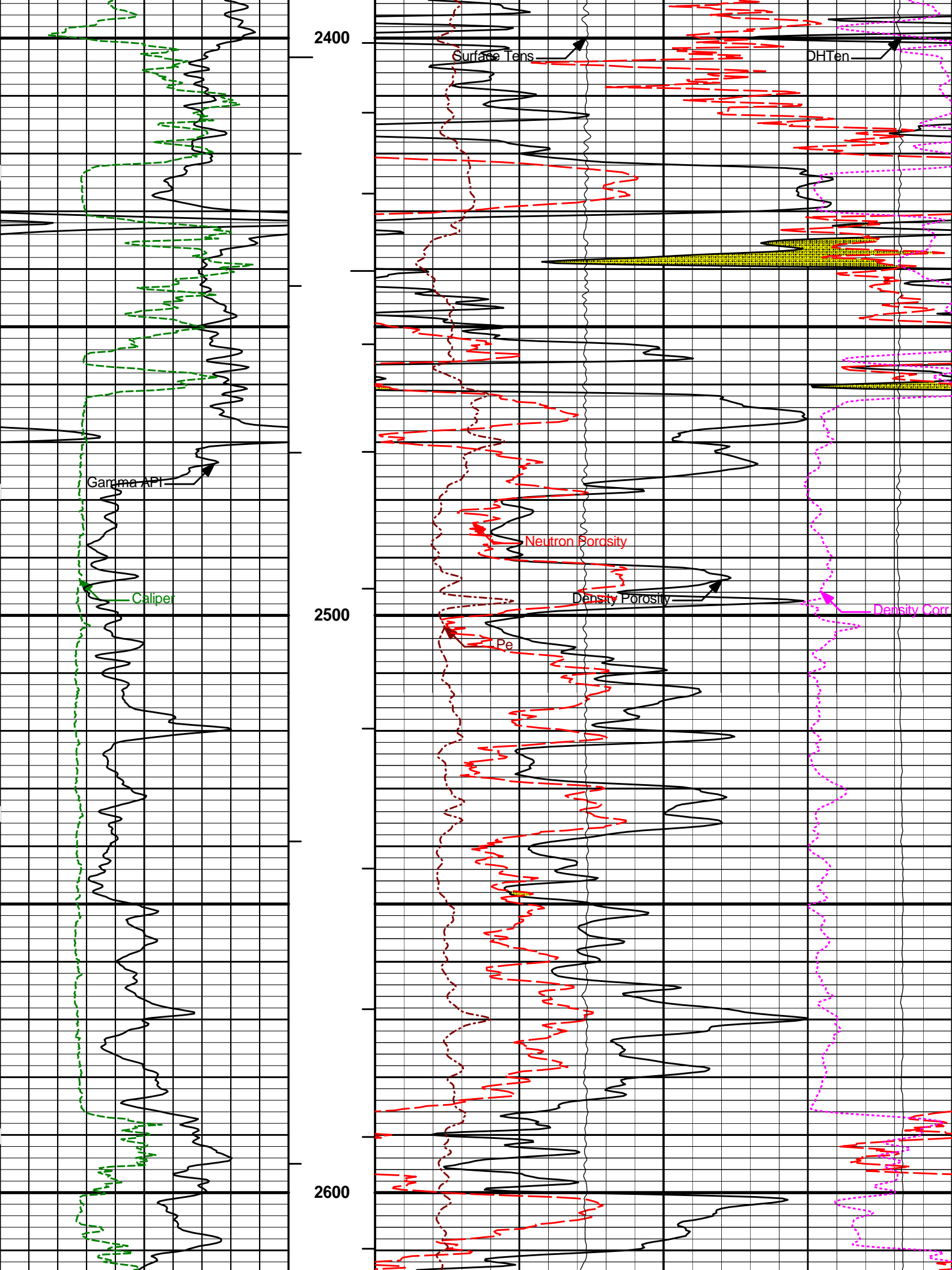


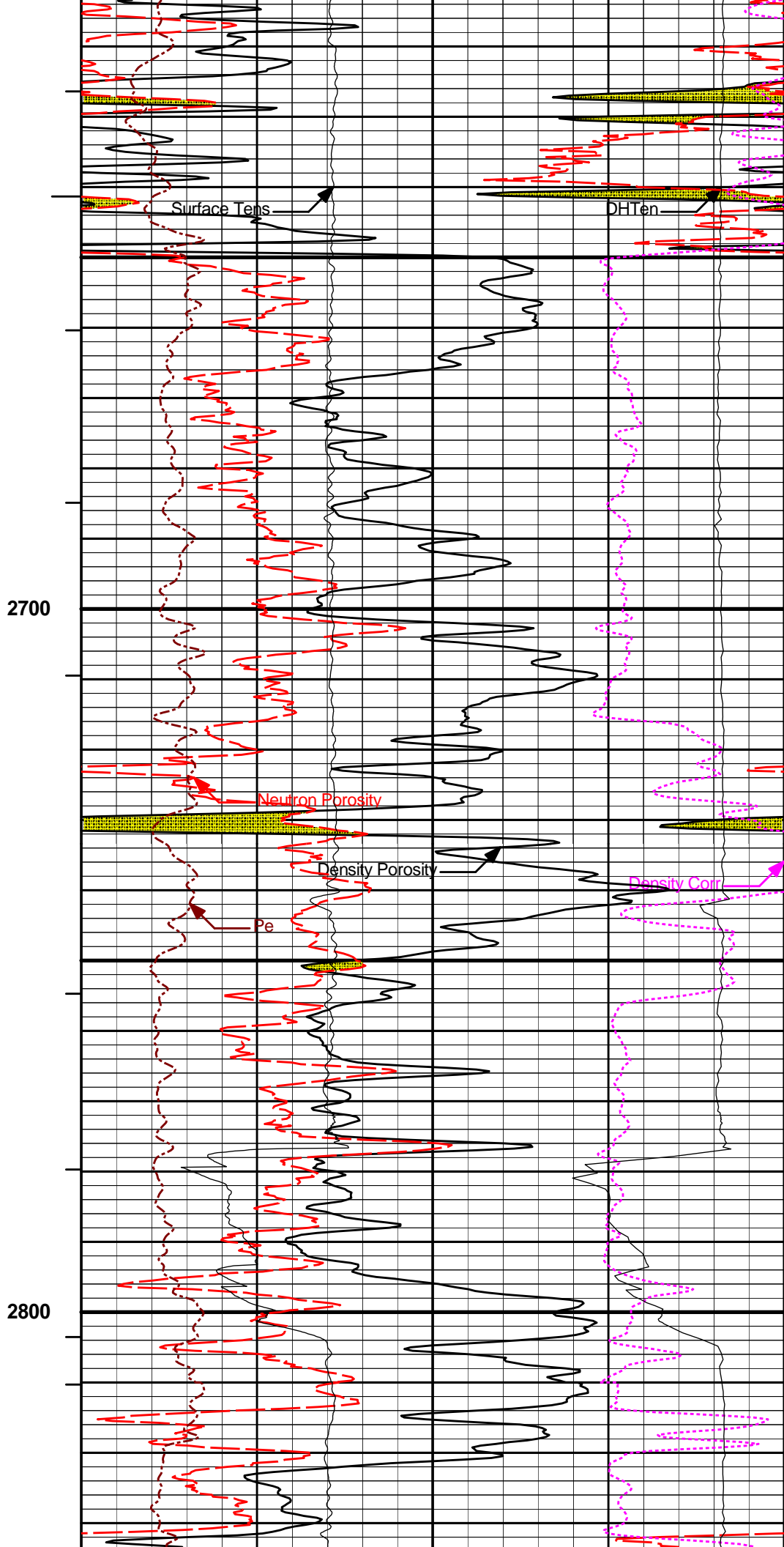
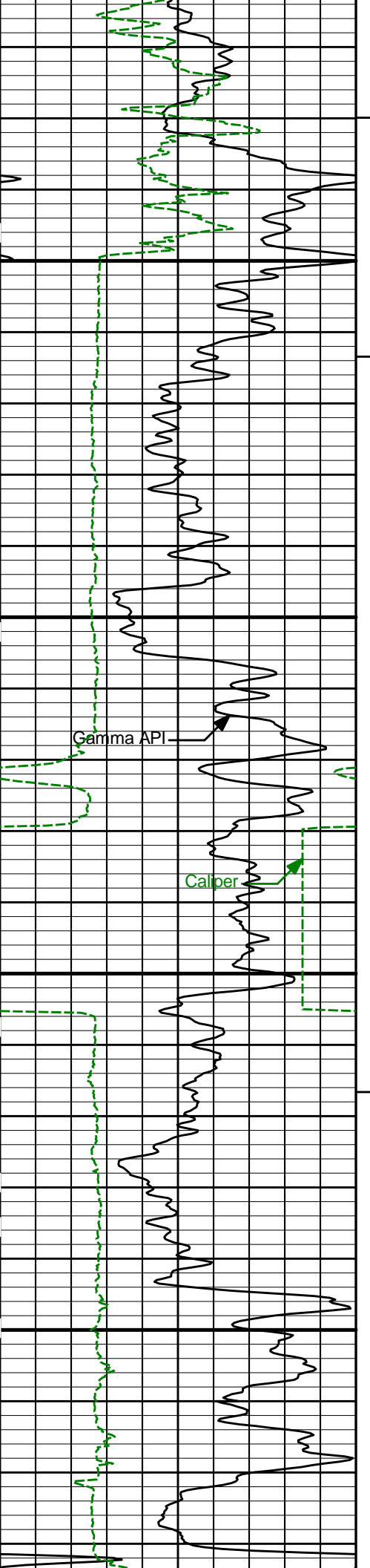




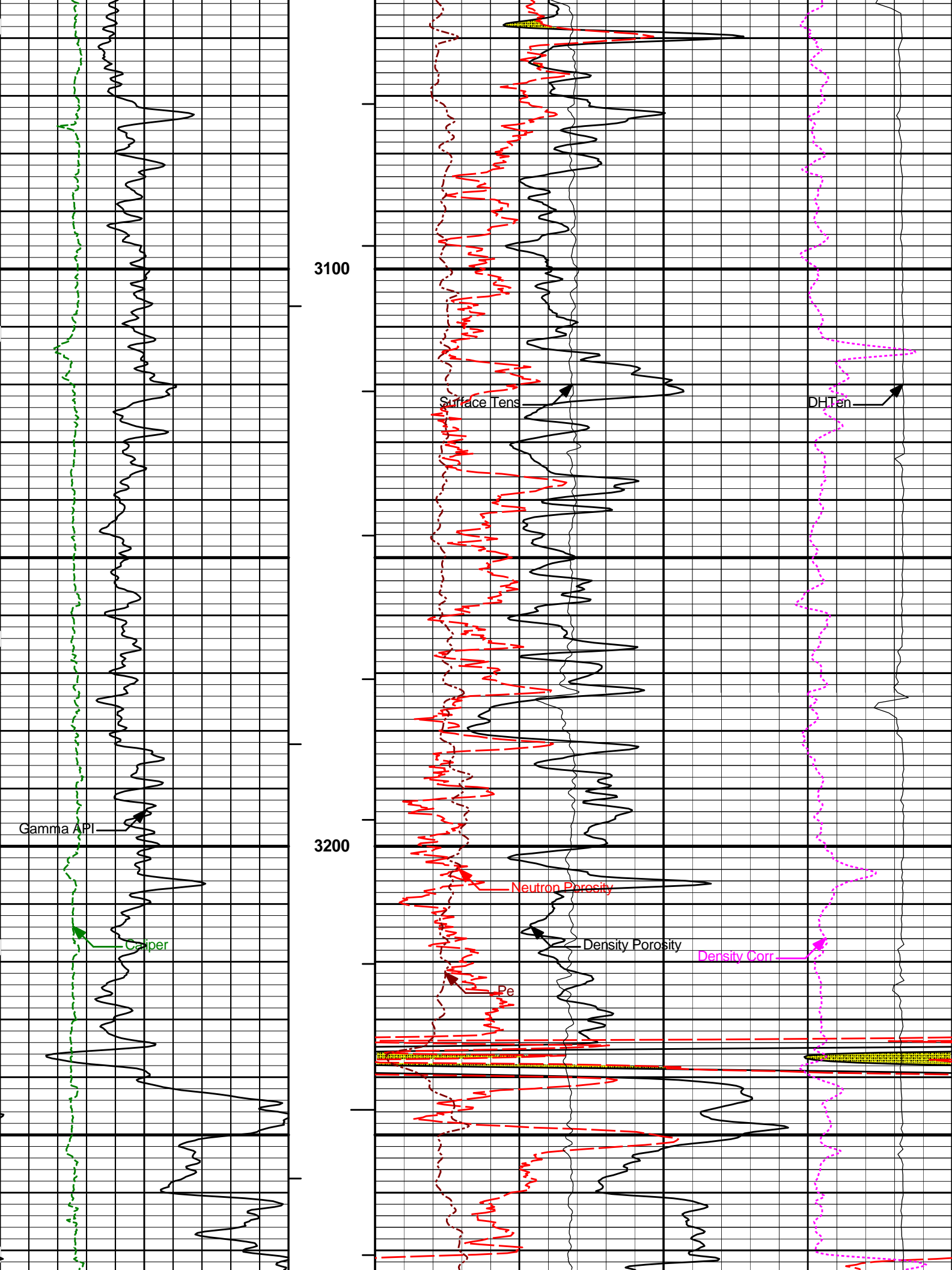


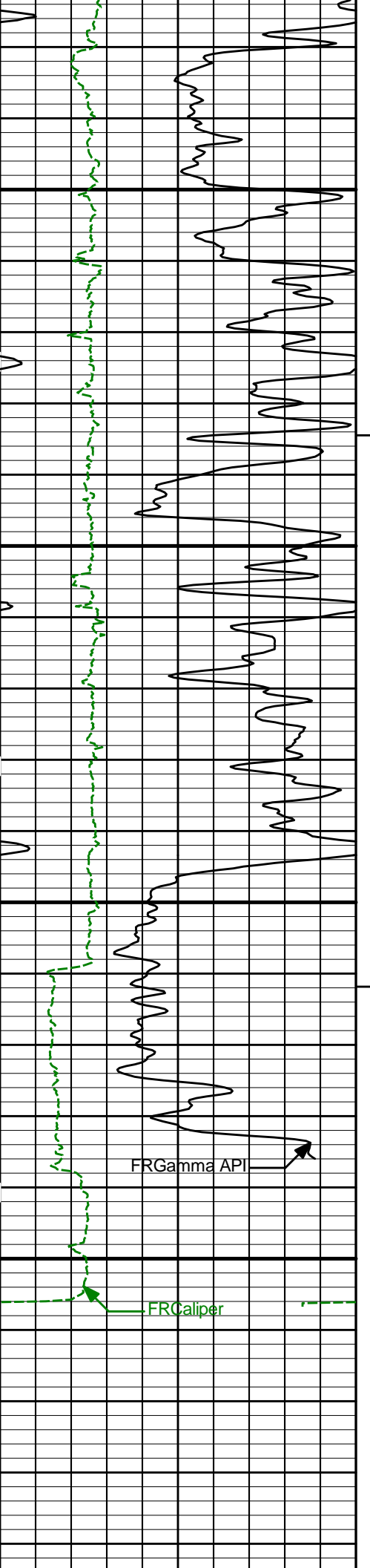






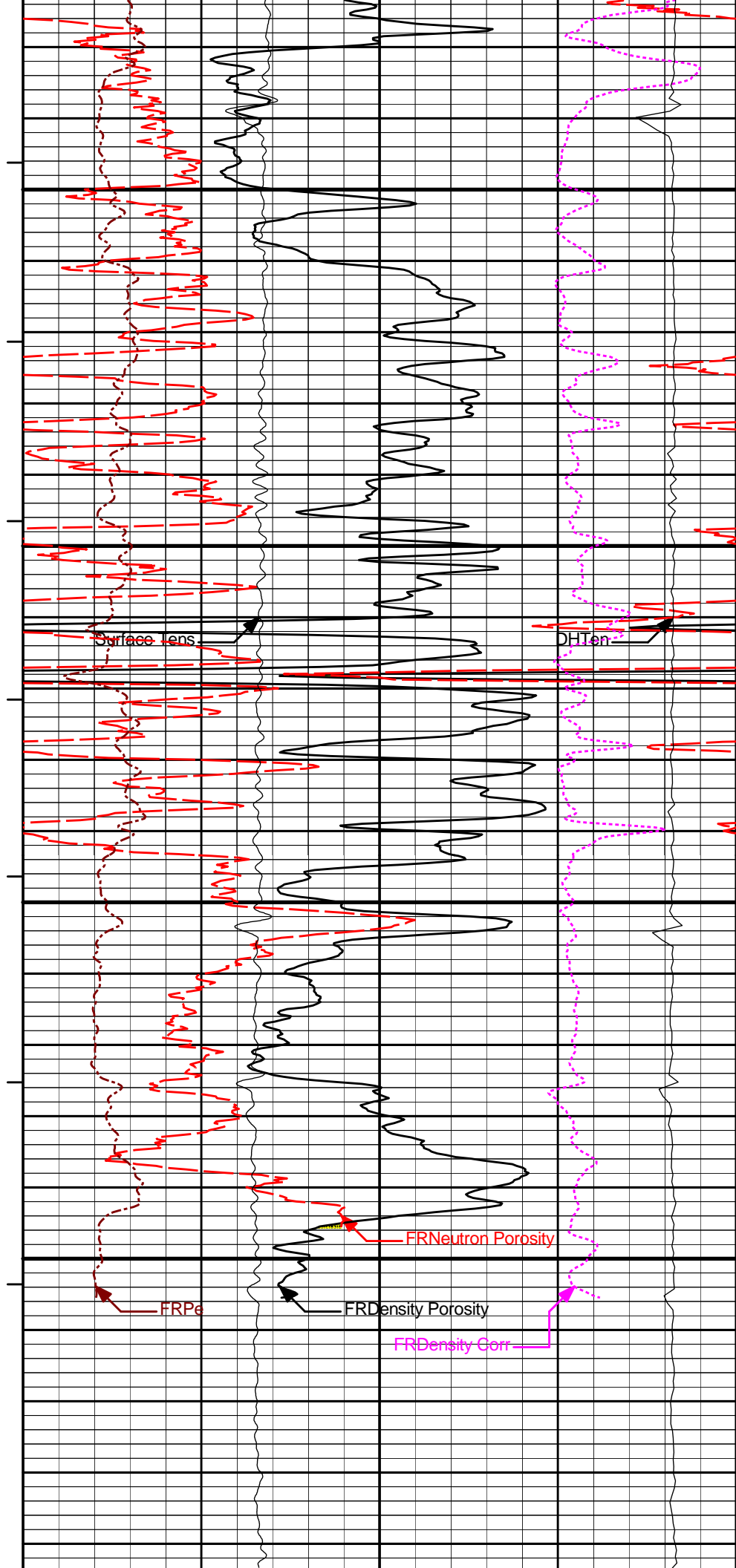


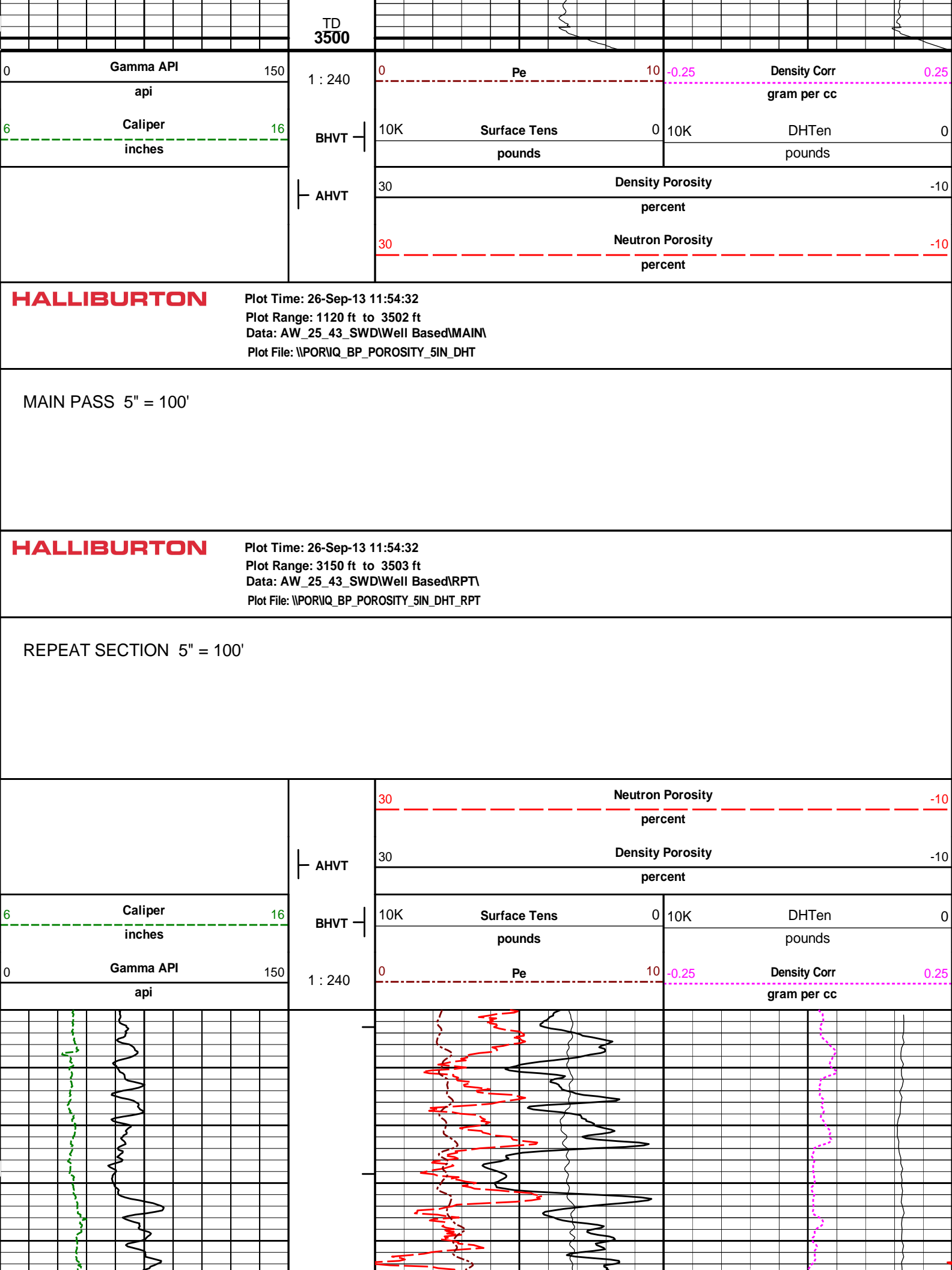




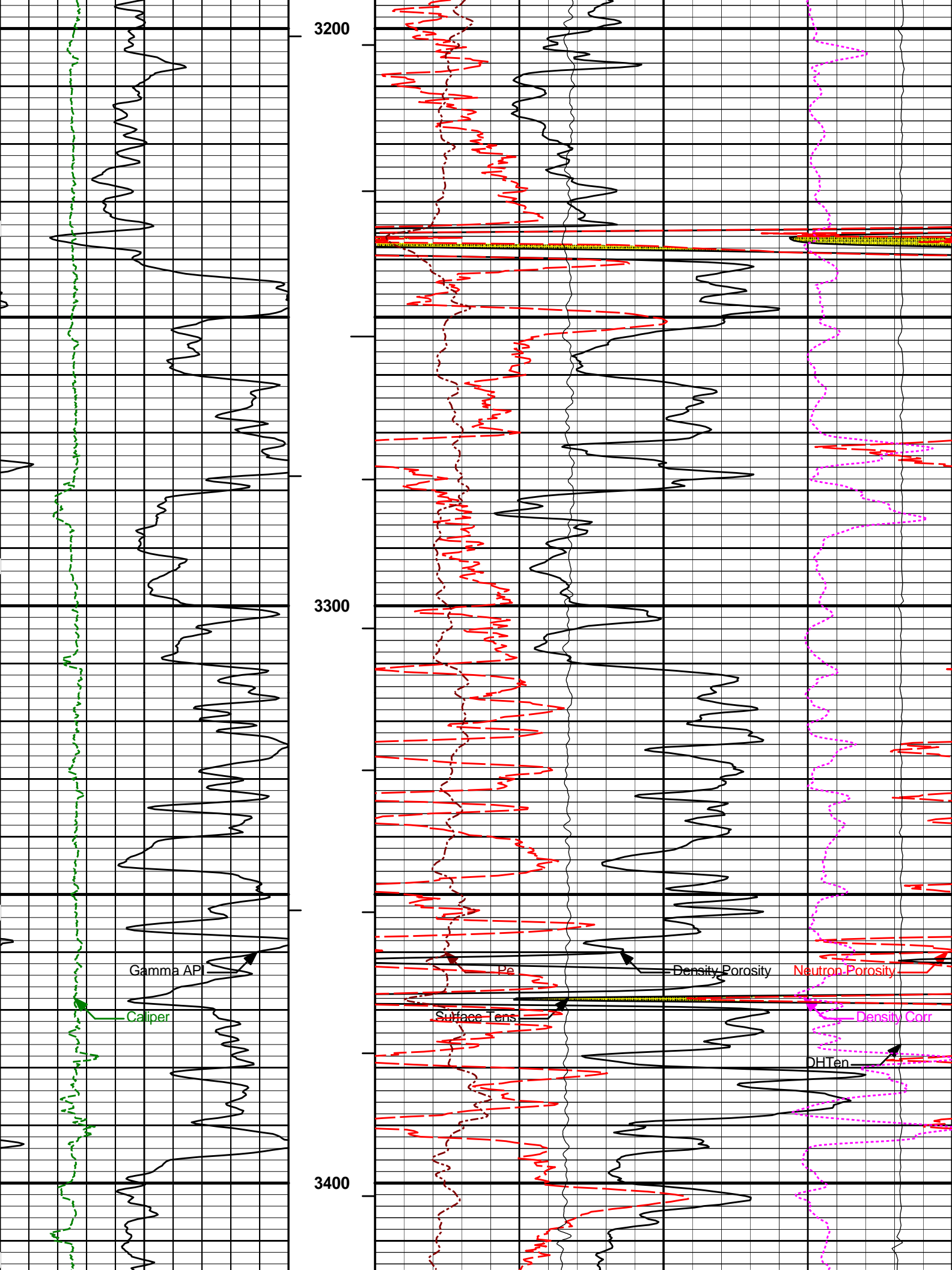
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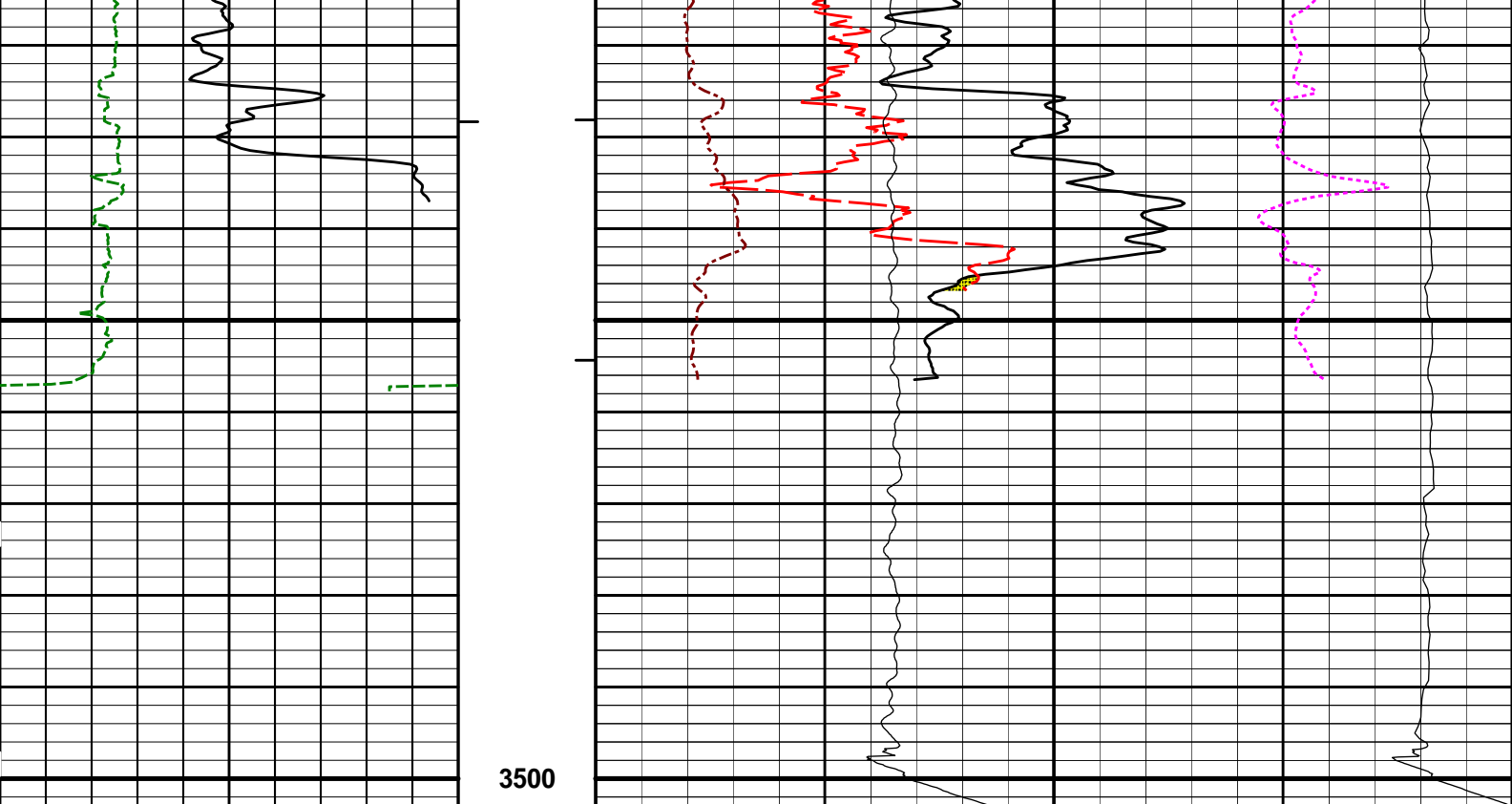
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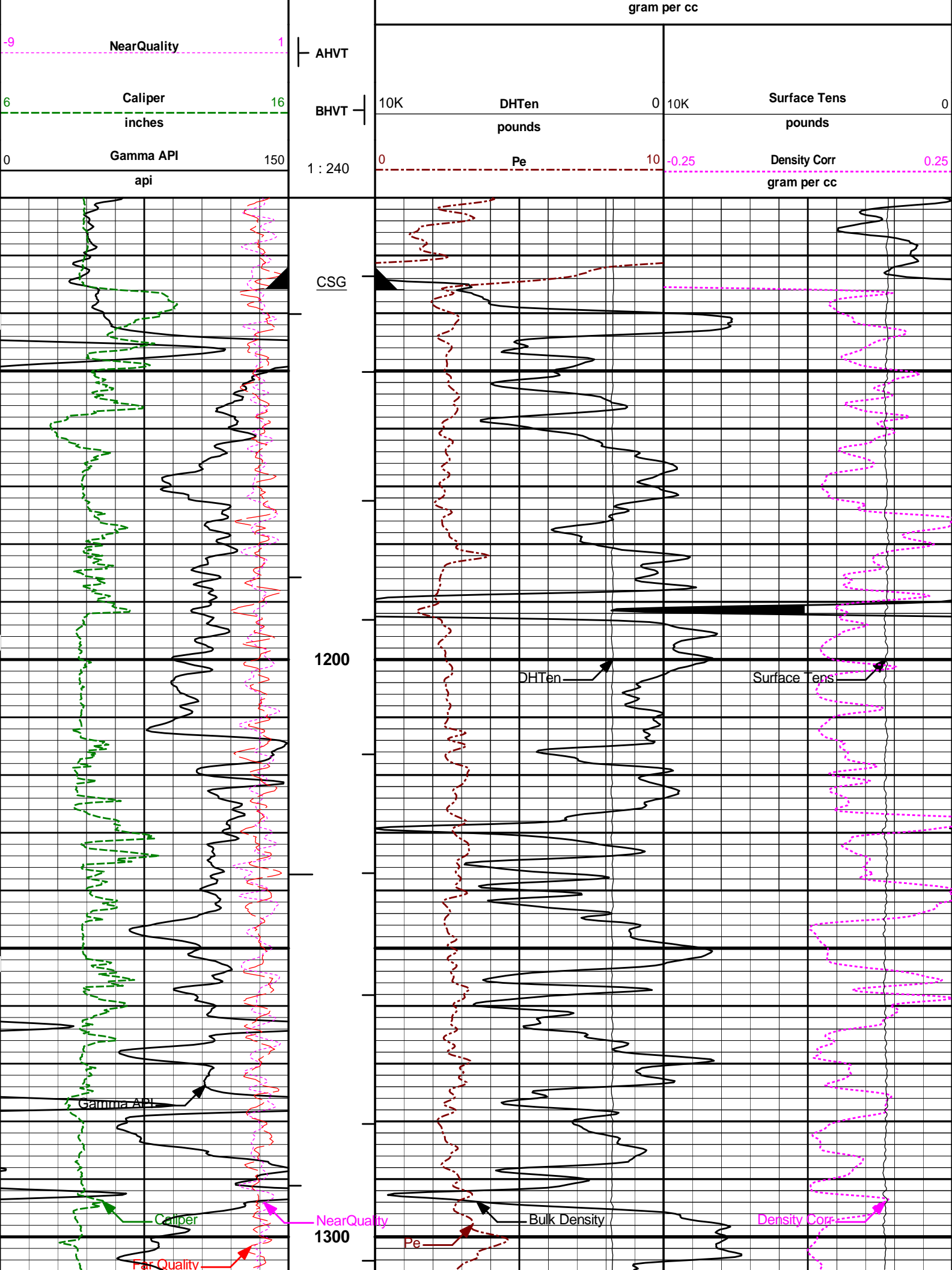
|   |           |     |         |     |                  |    |       |              |      |
|---|-----------|-----|---------|-----|------------------|----|-------|--------------|------|
| 0 | Gamma API | 150 | 1 : 240 | 0   | Pe               | 10 | -0.25 | Density Corr | 0.25 |
|   | api       |     |         |     |                  |    |       | gram per cc  |      |
| 6 | Caliper   | 16  | BHVT    | 10K | Surface Tens     | 0  | 10K   | DHTen        | 0    |
|   | inches    |     |         |     | pounds           |    |       | pounds       |      |
|   |           |     | AHVT    | 30  | Density Porosity |    |       |              | -10  |
|   |           |     |         |     | percent          |    |       |              |      |
|   |           |     |         | 30  | Neutron Porosity |    |       |              | -10  |
|   |           |     |         |     | percent          |    |       |              |      |

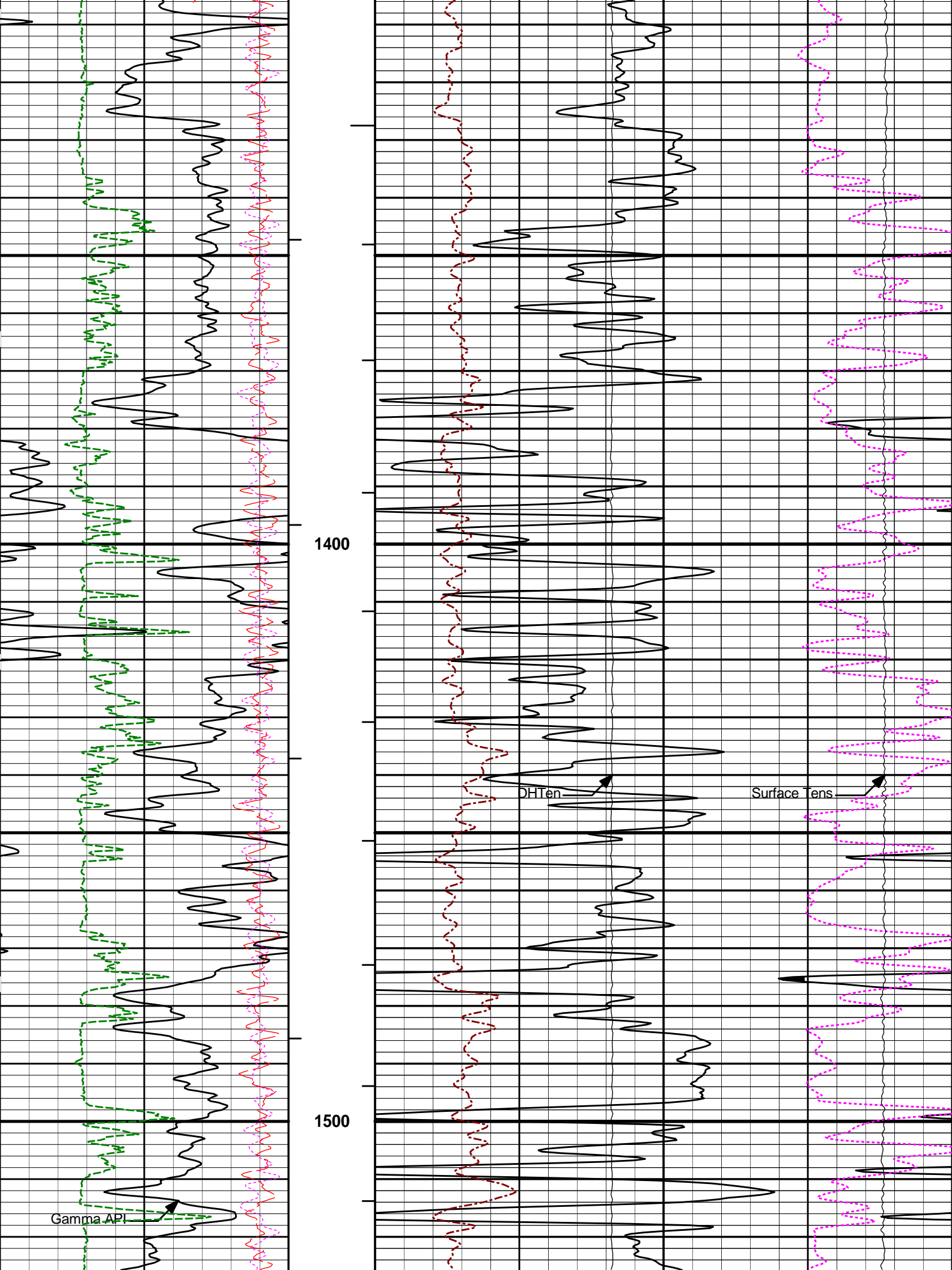
**HALLIBURTON** Plot Time: 26-Sep-13 11:54:33  
Plot Range: 3150 ft to 3503 ft  
Data: AW\_25\_43\_SWD\Well Based\RPT\  
Plot File: \\PORA\BP\_POROSITY\_5IN\_DHT\_RPT

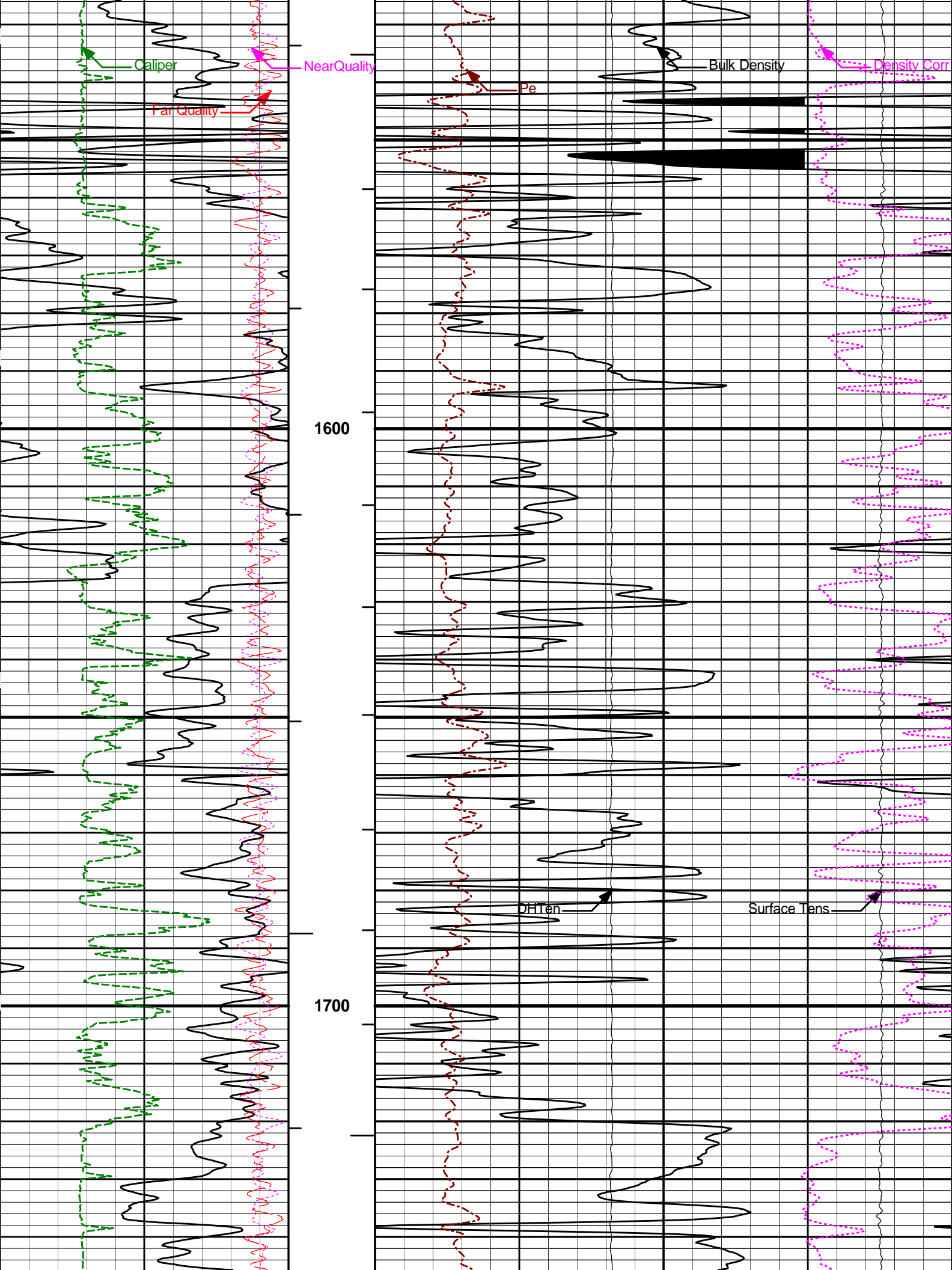
REPEAT SECTION 5" = 100'

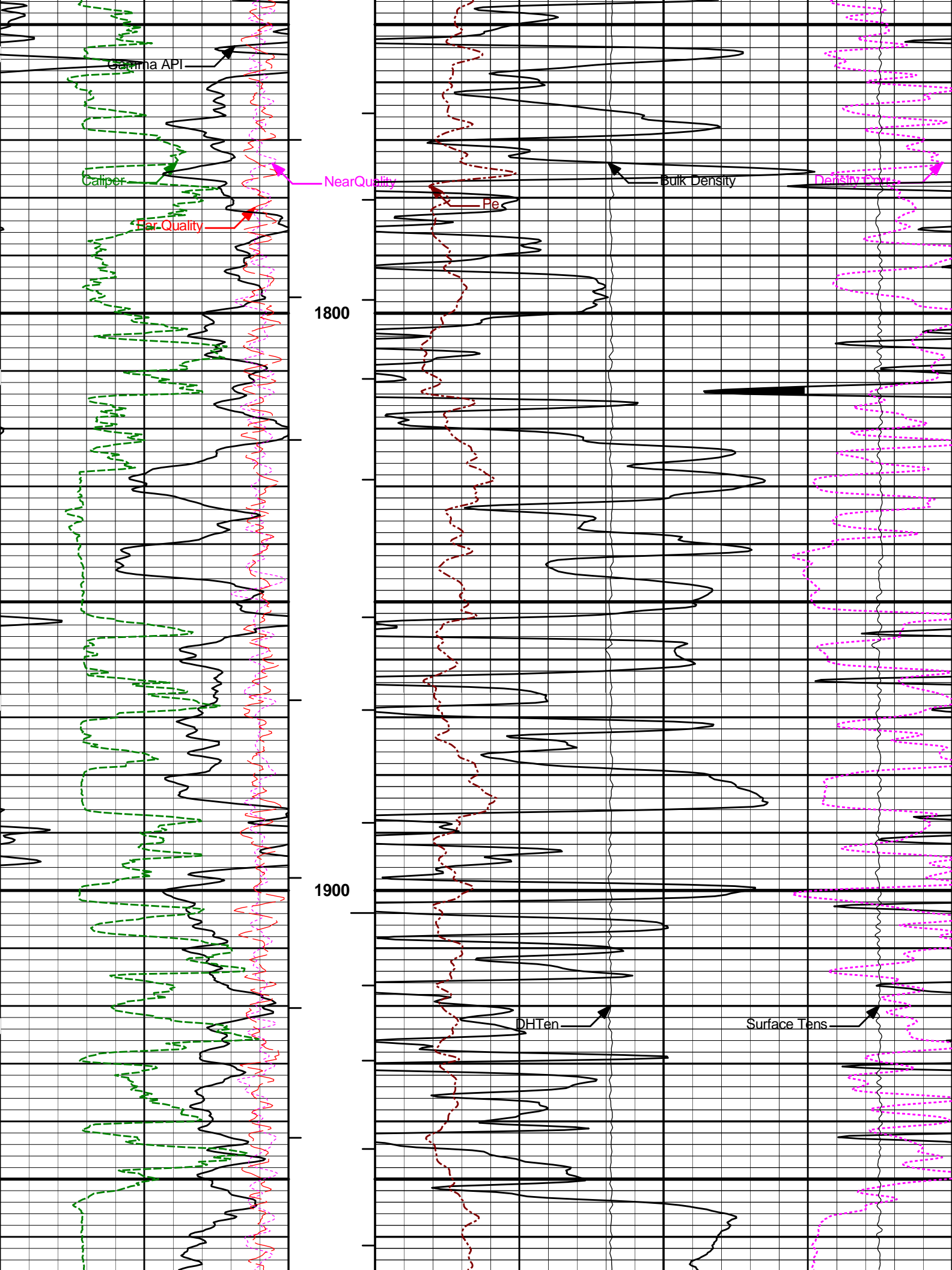
**HALLIBURTON** Plot Time: 26-Sep-13 11:54:33  
Plot Range: 1120 ft to 3502 ft  
Data: AW\_25\_43\_SWD\Well Based\MAIN\  
Plot File: \\PORA\BP\_RHOB\_5IN\_DHT

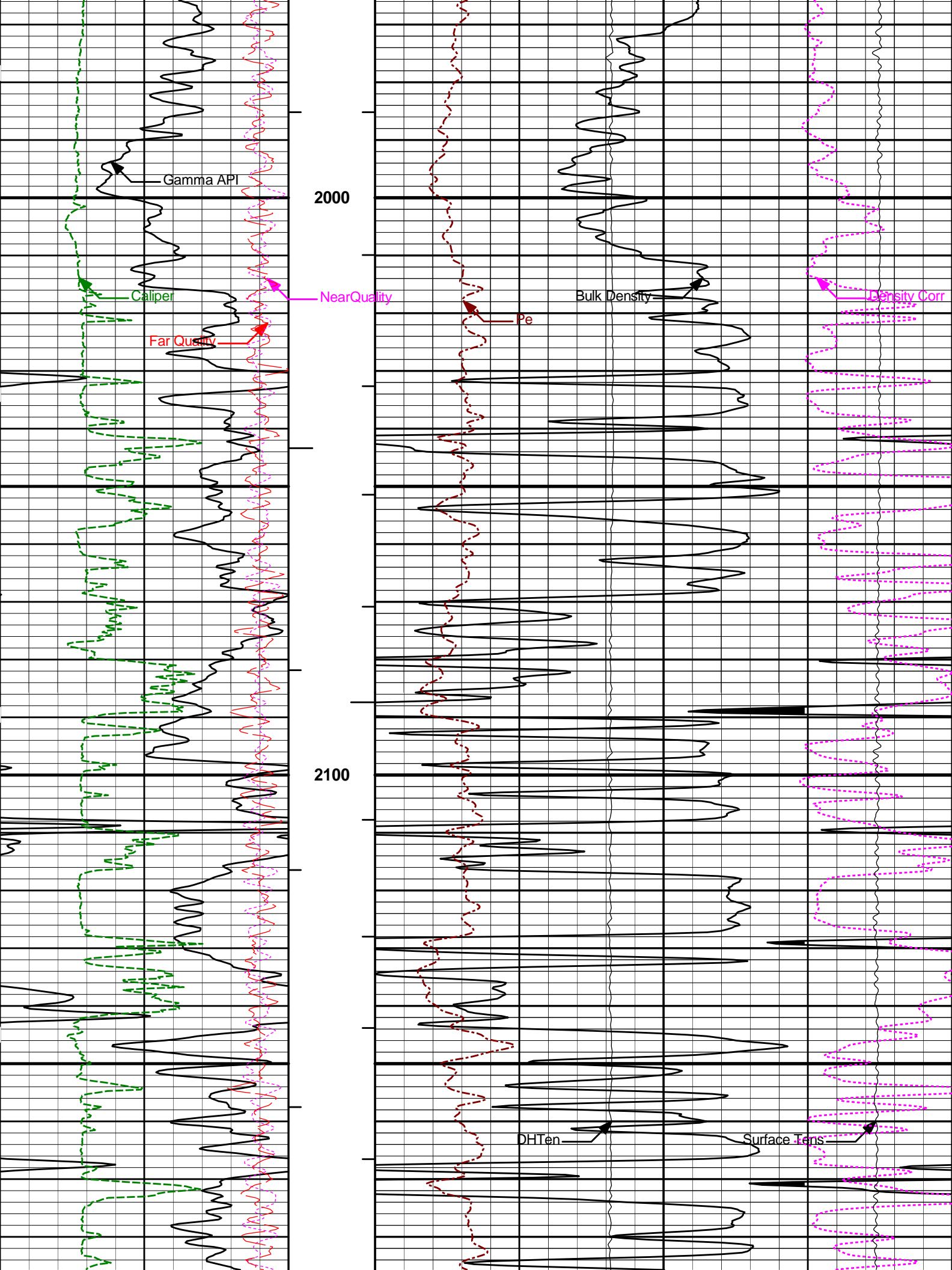
MAIN PASS 5" = 100'



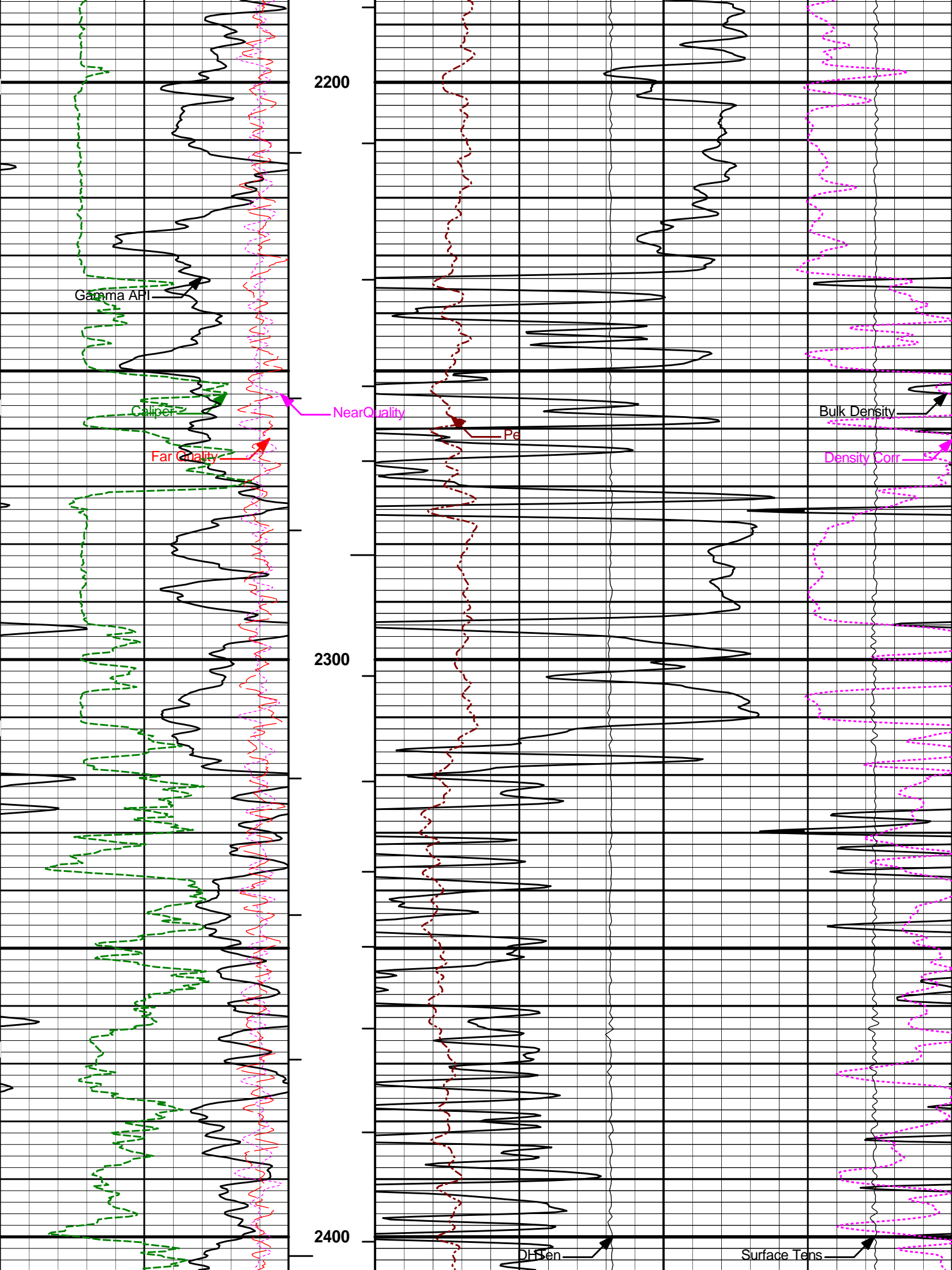


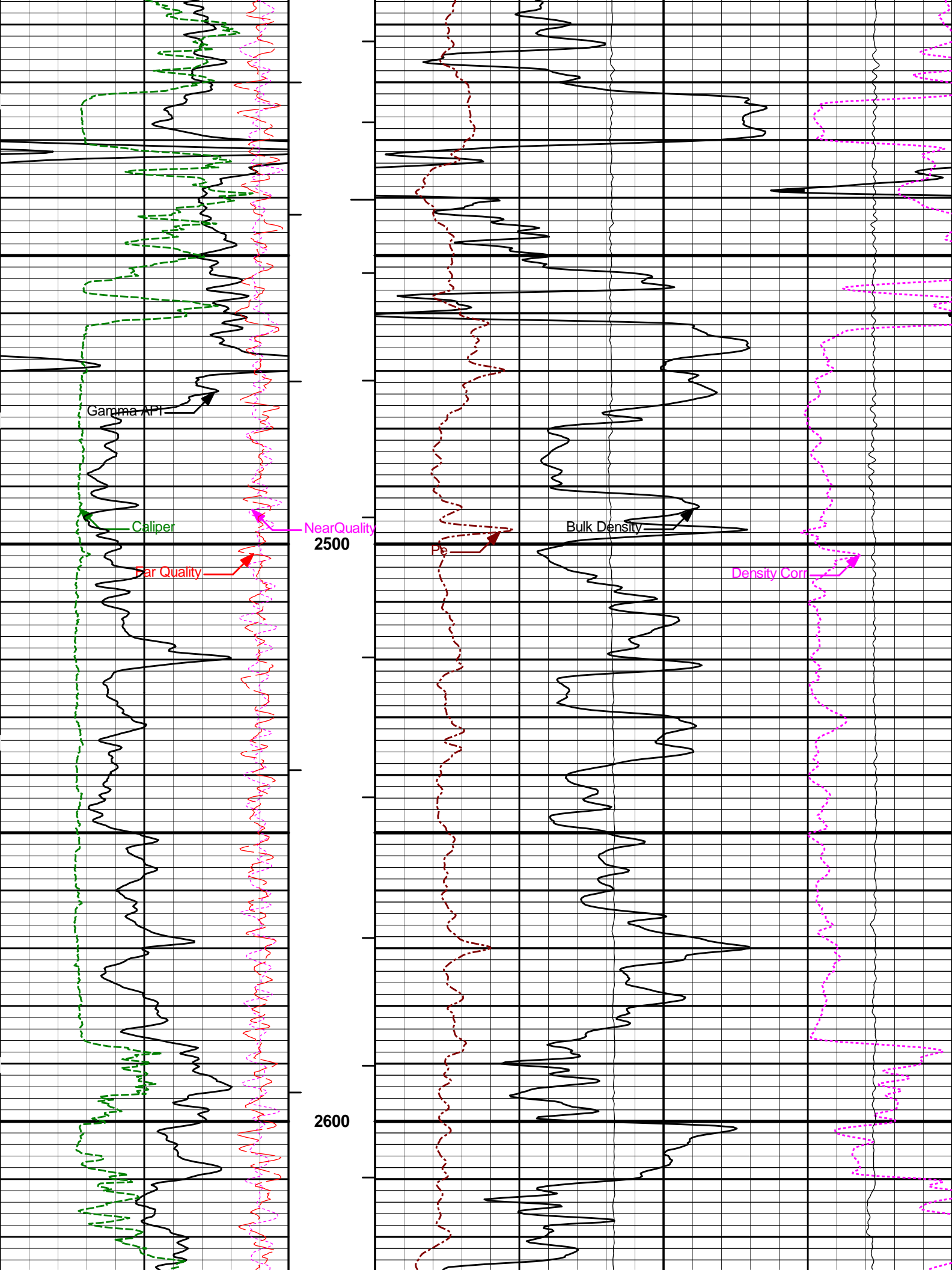


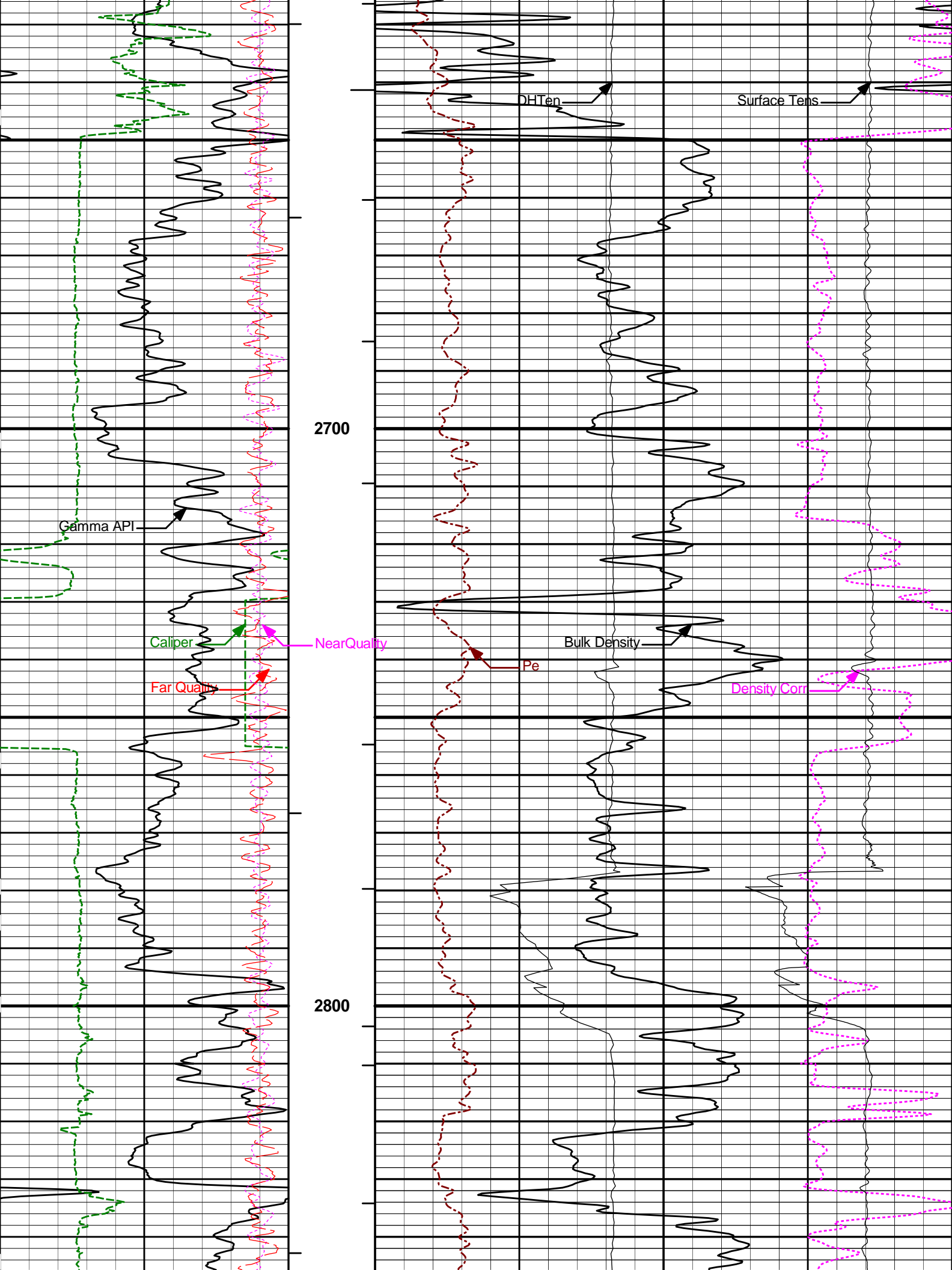


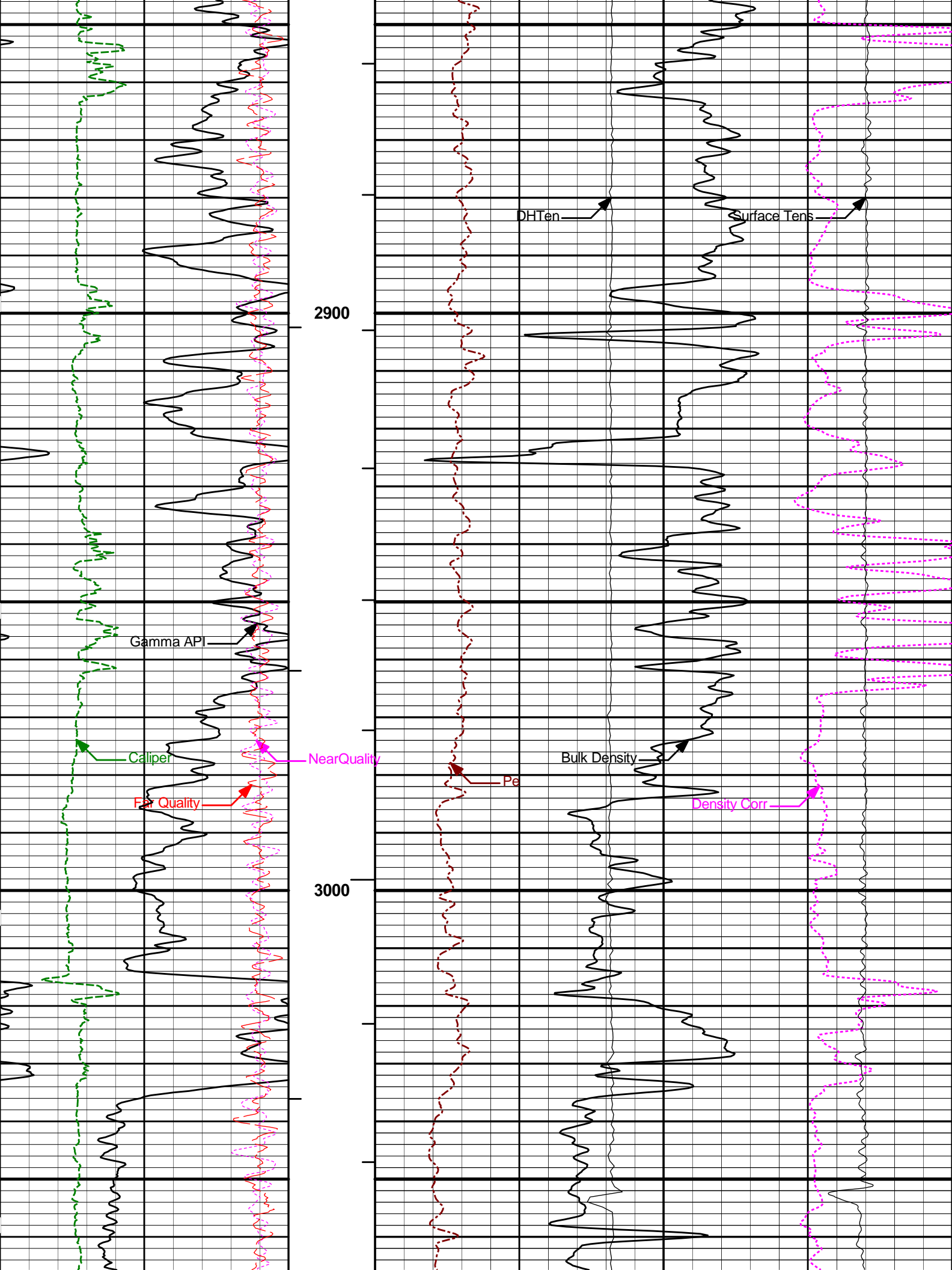


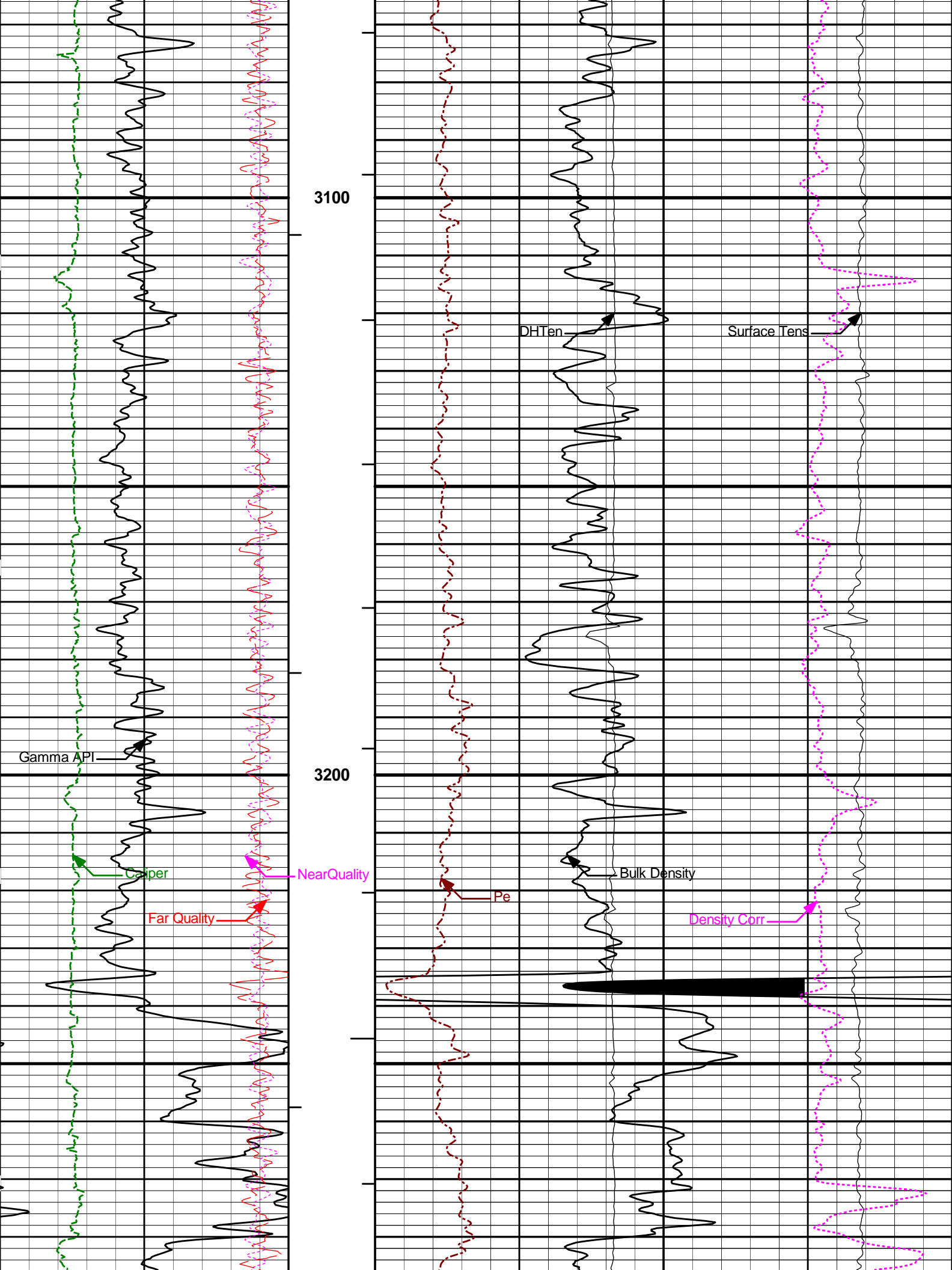


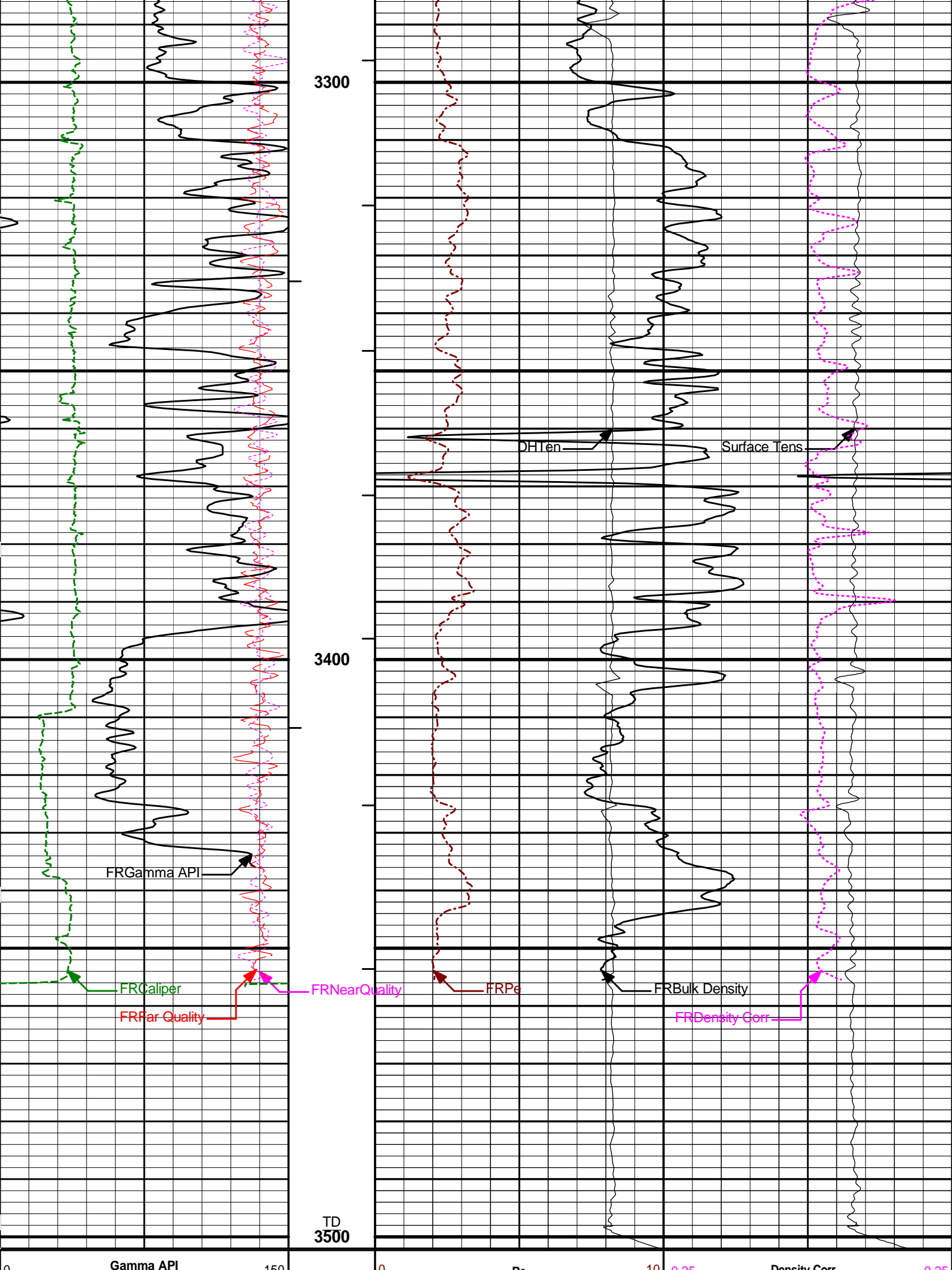












|             |         |              |              |
|-------------|---------|--------------|--------------|
| api         | 1 : 240 | Pe           | Density Corr |
| Caliper     | BHVT    | 10K DHTen    | Surface Tens |
| inches      |         | pounds       | pounds       |
| NearQuality | AHVT    |              |              |
| Far Quality |         | Bulk Density |              |
|             |         | gram per cc  |              |

HALLIBURTON

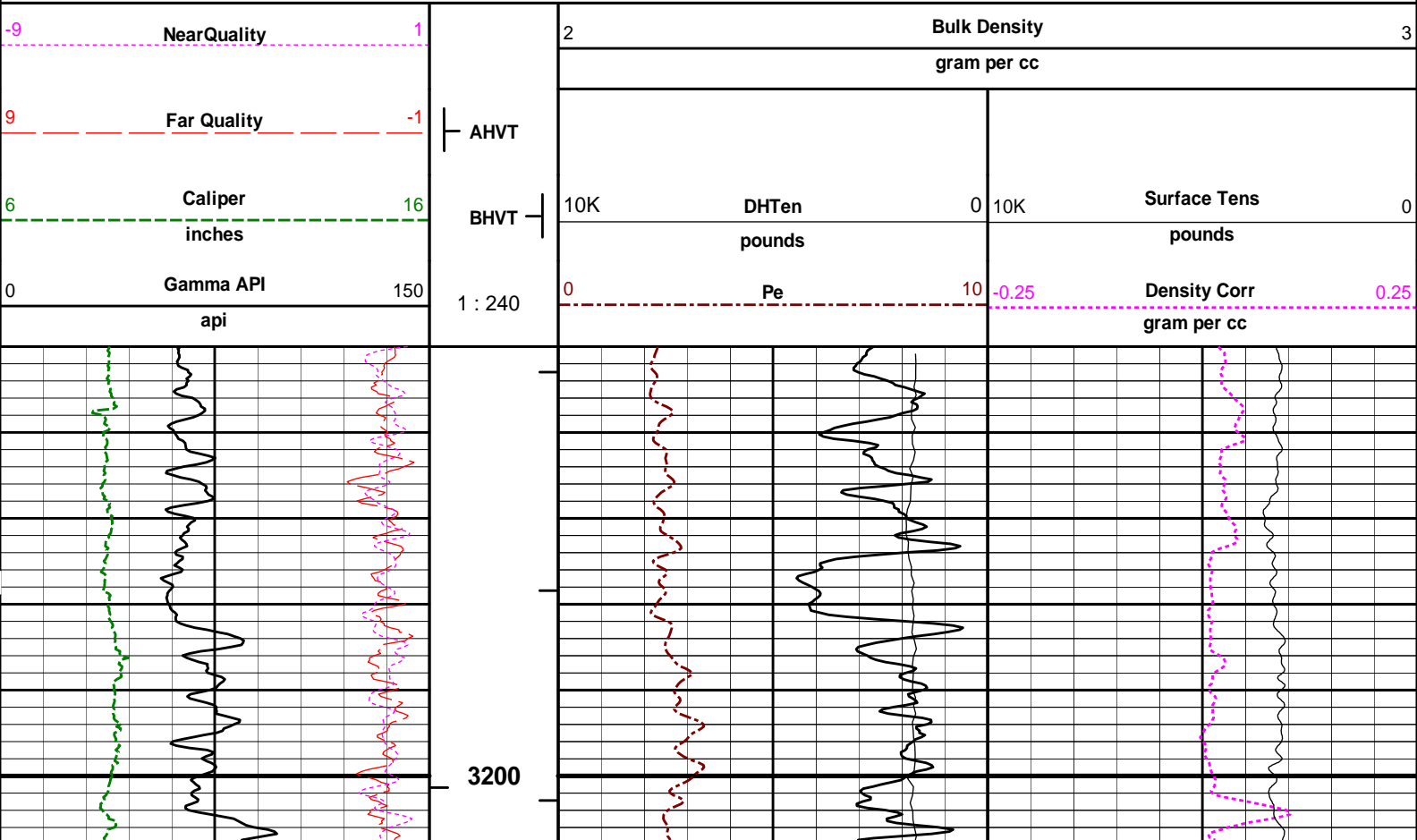
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Plot Range: 1120 ft to 3502 ft  
Data: AW\_25\_43\_SWD\Well Based\MAIN\  
Plot File: \\POR\IQ\_BP\_RHOB\_5IN\_DHT

MAIN PASS 5" = 100'

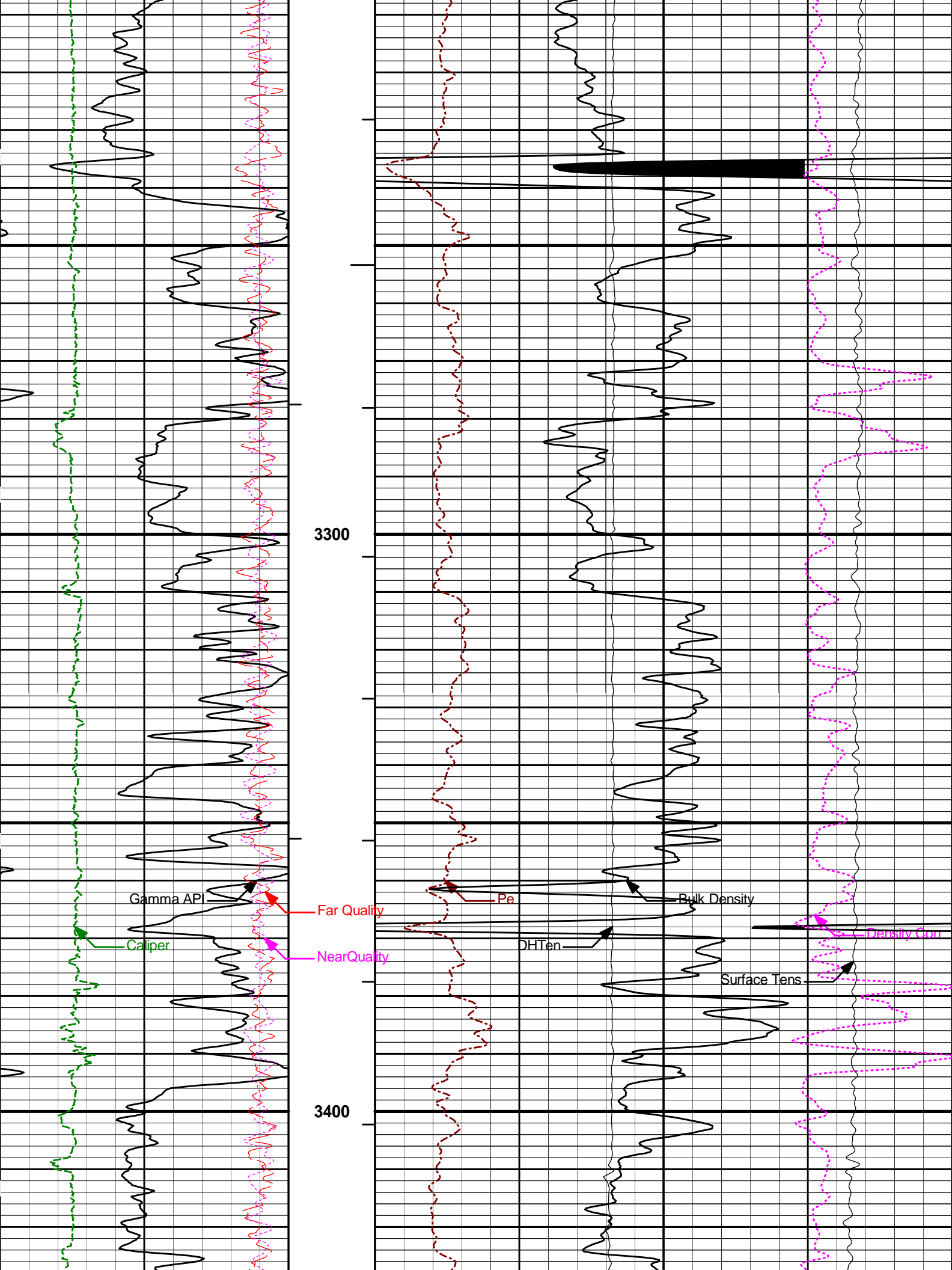
HALLIBURTON

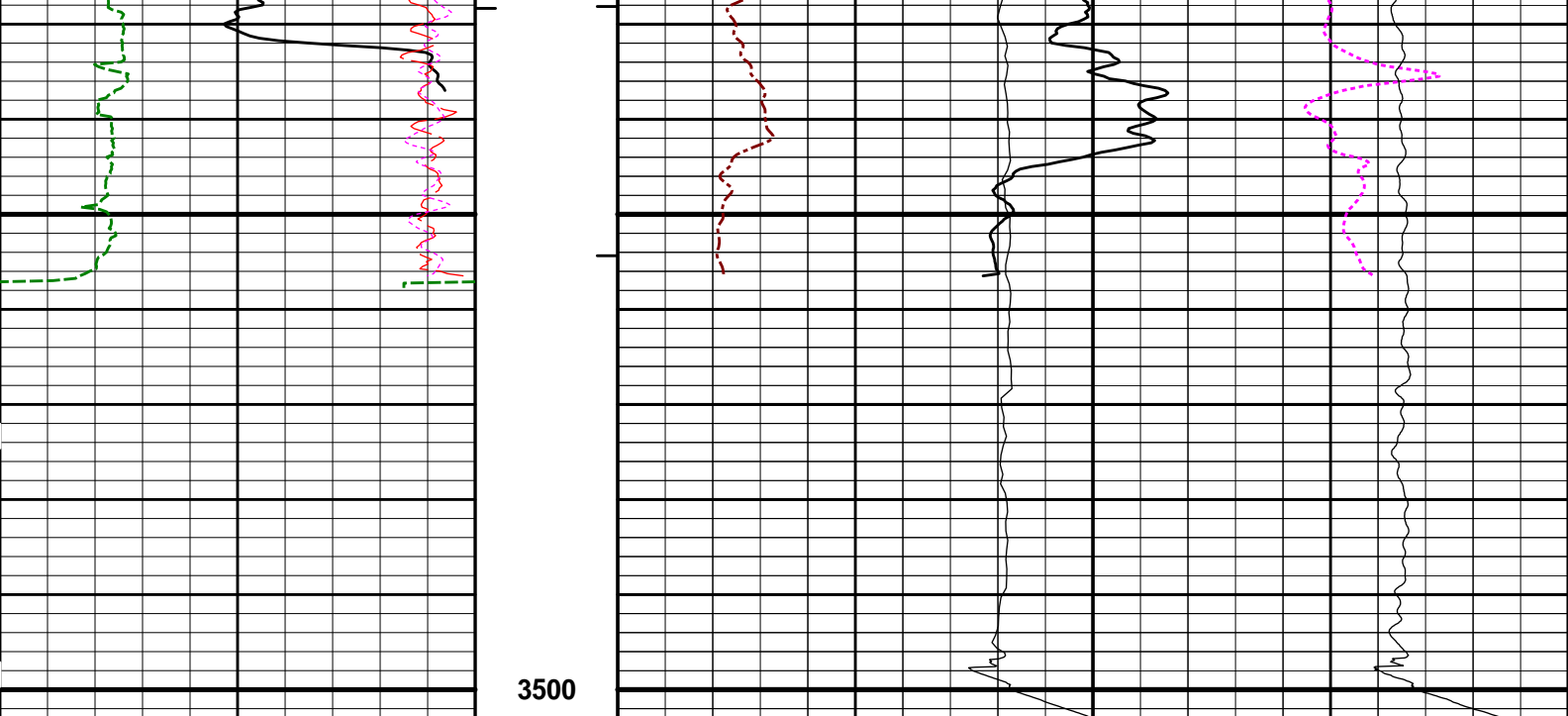
Plot Time: 26-Sep-13 11:54:36  
Plot Range: 3150 ft to 3503 ft  
Data: AW\_25\_43\_SWD\Well Based\RPT\  
Plot File: \\POR\IQ\_BP\_RHOB\_5IN\_DHT\_RPT

REPEAT SECTION 5" = 100'









|    |             |     |         |     |        |    |       |              |      |
|----|-------------|-----|---------|-----|--------|----|-------|--------------|------|
| 0  | Gamma API   | 150 | 1 : 240 | 0   | Pe     | 10 | -0.25 | Density Corr | 0.25 |
|    | api         |     |         |     |        |    |       | gram per cc  |      |
| 6  | Caliper     | 16  | BHVT    | 10K | DHTen  | 0  | 10K   | Surface Tens | 0    |
|    | inches      |     |         |     | pounds |    |       | pounds       |      |
| 9  | Far Quality | -1  | AHVT    |     |        |    |       |              |      |
|    |             |     |         |     |        |    |       |              |      |
| -9 | NearQuality | 1   |         | 2   |        |    |       | Bulk Density | 3    |
|    |             |     |         |     |        |    |       | gram per cc  |      |

**HALLIBURTON**  
Plot Time: 26-Sep-13 11:54:37  
Plot Range: 3150 ft to 3503 ft  
Data: AW\_25\_43\_SWD\Well Based\RPT\  
Plot File: \\POR\IQ\_BP\_RHOB\_5IN\_DHT\_RPT

REPEAT SECTION 5" = 100'

**HALLIBURTON**

**CALIBRATION REPORT**

**NATURAL GAMMA RAY TOOL SHOP CALIBRATION**

|                   |                             |                             |                    |
|-------------------|-----------------------------|-----------------------------|--------------------|
| Tool Name:        | GTET - 10843477             | Reference Calibration Date: | 14-Aug-13 10:58:08 |
| Engineer:         | B. PEDERSEN                 | Calibration Date:           | 14-Sep-13 16:14:25 |
| Software Version: | WL INSITE R3.8.10 (Build 5) | Calibration Version:        | 1                  |

Calibrator Source S/N: TB-270  
Calibrator API Reference:259.00 api  
Equivalent Calibrator API Reference:263.5 api

| Measurement             | Measured | Calibrated | Units |
|-------------------------|----------|------------|-------|
| Background              | 55.7     | 57.2       | api   |
| Background + Calibrator | 311.9    | 320.8      | api   |

|            |       |       |     |
|------------|-------|-------|-----|
| Calibrator | 256.3 | 263.5 | api |
|------------|-------|-------|-----|

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

|                   |                             |                             |                    |
|-------------------|-----------------------------|-----------------------------|--------------------|
| Tool Name:        | GTET - 10843477             | Reference Calibration Date: | 14-Sep-13 16:14:25 |
| Engineer:         | V. CREWS                    | Calibration Date:           | 26-Sep-13 07:10:10 |
| Software Version: | WL INSITE R3.8.10 (Build 5) | Calibration Version:        | 1                  |

Calibrator Source S/N: TB-270  
Calibrator API Reference:259.00 api  
Equivalent Calibrator API Reference:263.5 api

| Field Verification      | Shop  | Field      | Units     |
|-------------------------|-------|------------|-----------|
| Background              | 57.2  | 81.8       | api       |
| Background + Calibrator | 320.8 | 349.3      | api       |
| Calibrator              | 263.5 | 267.5      | api       |
|                         |       |            |           |
| Shop                    | Field | Difference | Tolerance |
| 263.5                   | 267.5 | -4.0       | +/- 9.00  |

DUAL SPACED NEUTRON SHOP CALIBRATION

|                   |                             |                             |                    |
|-------------------|-----------------------------|-----------------------------|--------------------|
| Tool Name:        | DSNT - 10846353             | Reference Calibration Date: | 14-Aug-13 10:52:18 |
| Engineer:         | B. PEDERSEN                 | Calibration Date:           | 14-Sep-13 16:03:11 |
| Software Version: | WL INSITE R3.8.10 (Build 5) | Calibration Version:        | 1                  |

Logging Source S/N: 08-018  
Tank Serial Number: 105039  
Reference value assigned to Tank: 49.230  
Snow Block S/N: 111  
Calibration Tank Water Temperature: 72 degF  
Min. Tool Housing Outside Diameter: 3.600 in

| CALIBRATION CONSTANTS |             |           |                            |
|-----------------------|-------------|-----------|----------------------------|
| Measurement           | Prev. Value | New Value | Control Limit On New Value |
| Gain:                 | 0.943       | 0.941     | 0.900 - 1.100              |

| WATER TANK SUMMARY (Horizontal Water Tank) |                                  |                        |        |                         |
|--|----------------------------------|------------------------|--------|-------------------------|
| Measurement                                | Current Reading (Previous Coef.) | Calibrated (New Coef.) | Change | Control Limit On Change |
| Porosity (decp):                           | 0.1961                           | 0.1954                 | 0.0008 | +/- 0.0020              |
| Calibrated Ratio:                          | 9.22                             | 9.20                   | 0.026  | +/- 0.050               |

| VERIFIER                    |        |                   |
|-----------------------------|--------|-------------------|
| Measurement                 | Value  | Control Limit     |
| Snow-Block Porosity (decp): | 0.0687 | 0.02000 - 0.09000 |

| PASS/FAIL SUMMARY |        |
|-------------------|--------|
| Background Check: | Passed |
| Gain-Range Check: | Passed |
| Snow-Block Check: | Passed |

DUAL SPACED NEUTRON FIELD CALIBRATION

|                   |                             |                             |                    |
|-------------------|-----------------------------|-----------------------------|--------------------|
| Tool Name:        | DSNT - 10846353             | Reference Calibration Date: | 14-Sep-13 16:03:11 |
| Engineer:         | V. CREWS                    | Calibration Date:           | 26-Sep-13 08:31:13 |
| Software Version: | WL INSITE R3.8.10 (Build 5) | Calibration Version:        | 1                  |

| NEUTRON FIELD-CHECK SUMMARY |        |        |            |                         |
|-----------------------------|--------|--------|------------|-------------------------|
|                             | Shop   | Field  | Difference | Control Limit On Change |
| Snow-Block Porosity (decp): | 0.0687 | 0.0630 | -0.0057    | +/- 0.0150              |

| PASS/FAIL SUMMARY      |        |
|------------------------|--------|
| Block Change Check:    | Passed |
| Snow Block Stat Check: | Passed |
| Temperature Check:     | Passed |

DENSITY CALIPER SHOP CALIBRATION

|                   |                             |                             |                    |
|-------------------|-----------------------------|-----------------------------|--------------------|
| Tool Name:        | SDLT - 11014275             | Reference Calibration Date: | 06-Sep-13 11:36:23 |
| Engineer:         | B. PEDERSEN                 | Calibration Date:           | 14-Sep-13 15:21:42 |
| Software Version: | WL INSITE R3.8.10 (Build 5) | Calibration Version:        | 1                  |
| Host Tool Name:   | DSNT - 10846353             |                             |                    |

| CALIBRATION COEFFICIENTS |                |              |                            |
|--------------------------|----------------|--------------|----------------------------|
| Measurement              | Previous Value | New Value    | Control Limit On New Value |
| Pad Offset               | -2073.62       | -1851.37     | -7000.00 - -1000.00        |
| Pad Gain                 | 0.0003838      | 0.0003765    | 0.000200 - 0.000600        |
| Arm Offset               | -3561.36       | -3614.60     | -5000.00 - 3000.00         |
| Arm Gain                 | 0.0005513      | 0.0005514    | 0.000300 - 0.000700        |
| Arm Power                | -0.000004724   | -0.000004456 | -0.000010000 - 0.000010000 |

The ring diameter is computed from:  $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$   
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)   | 1.95                              | 2.00                    | 0.05   | +/- 0.20                   |
| Medium Ring (in)  | 3.74                              | 3.75                    | 0.01   | +/- 0.20                   |
| RING DIAMETER:    |                                   |                         |        |                            |
| Small Ring (in)   | 6.44                              | 6.50                    | 0.06   | +/- 0.20                   |
| Medium Ring (in)  | 8.19                              | 8.25                    | 0.06   | +/- 0.20                   |
| Large Ring (in)   | 14.87                             | 15.00                   | 0.13   | +/- 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 - 11014275             | Reference Calibration Date: | 14-Sep-13 15:21:42 |
| Engineer:         | V. CREWS                    | Calibration Date:           | 26-Sep-13 07:10:52 |
| Software Version: | WL INSITE R3.8.10 (Build 5) | Calibration Version:        | 1                  |

| MEASURED CALIPER VALUES |      |       |        |                            |
|-------------------------|------|-------|--------|----------------------------|
| Measurement             | Shop | Field | Change | Control Limit On New Value |
| Pad Extension           | 3.75 | 3.70  | -0.05  | +/- 0.10                   |
| Ring Diameter           | 8.25 | 8.24  | -0.01  | +/- 0.15                   |

Ring Diameter 8.25 8.24 -0.01 +/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed

Diameter Check: Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 11045462

Reference Calibration Date: 14-Aug-13 09:57:54

Engineer: B. PEDERSEN

Calibration Date: 14-Sep-13 14:24:51

Software Version: WL INSITE R3.8.10 (Build 5)

Calibration Version: 1

Logging Source S/N: 5235GW

Aluminum Block S/N: ROCK SPRINGS

Density: 2.602g/cc

Pe: 3.110

Magnesium Block S/N: ROCK SPRINGS

Density: 1.690g/cc

Pe: 2.610

DENSITY CALIBRATION SUMMARY

| Measurement          | Previous Value | New Value | Control Limit |
|----------------------|----------------|-----------|---------------|
| Near Bar Gain        | 1.0394         | 1.0691    | 0.90 - 1.10   |
| Near Dens Gain       | 1.0038         | 1.0331    | 0.90 - 1.10   |
| Near Peak Gain       | 1.0092         | 1.0435    | 0.90 - 1.10   |
| Near Lith Gain       | 1.0149         | 1.0352    | 0.90 - 1.10   |
| Far Bar Gain         | 1.0135         | 1.0184    | 0.90 - 1.10   |
| Far Dens Gain        | 1.0011         | 1.0058    | 0.90 - 1.10   |
| Far Peak Gain        | 0.9964         | 0.9990    | 0.90 - 1.10   |
| Far Lith Gain        | 0.9739         | 0.9761    | 0.90 - 1.10   |
| Near Bar Offset      | -0.3089        | -0.5863   | NONE          |
| Near Dens Offset     | 0.0132         | -0.2544   | NONE          |
| Near Peak Offset     | -0.0440        | -0.3479   | NONE          |
| Near Lith Offset     | -0.0886        | -0.2818   | NONE          |
| Far Bar Offset       | -0.1563        | -0.1936   | NONE          |
| Far Dens Offset      | -0.0299        | -0.0689   | NONE          |
| Far Peak Offset      | -0.0143        | -0.0352   | NONE          |
| Far Lith Offset      | 0.0808         | 0.0602    | NONE          |
| Near Bar Background  | 888.38         | 886.63    | 700 - 1450    |
| Near Dens Background | 294.07         | 293.03    | 230 - 480     |
| Near Peak Background | 127.29         | 127.14    | 100 - 210     |
| Near Lith Background | 154.16         | 155.11    | 125 - 260     |
| Far Bar Background   | 469.22         | 467.59    | 450 - 900     |
| Far Dens Background  | 186.11         | 186.92    | 175 - 345     |
| Far Peak Background  | 72.47          | 72.50     | 70 - 140      |
| Far Lith Background  | 76.47          | 76.37     | 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) | 1.697                              | 1.690                    | -0.007 | +/- 0.015                  |
| Pe             | 2.442                              | 2.566                    | 0.124  | +/- 0.150                  |
| ALUMINUM       |                                    |                          |        |                            |
| Density (g/cc) | 2.608                              | 2.602                    | -0.006 | +/- 0.01500                |
| Pe             | 2.954                              | 3.072                    | 0.118  | +/- 0.150                  |

| TOOL SUMMARY                   |               |                |              |                |
|--------------------------------|---------------|----------------|--------------|----------------|
| Measurement                    | Near Detector |                | Far Detector |                |
|                                | Value         | Control Limits | Value        | Control Limits |
| QUALITY                        |               |                |              |                |
| Background                     | -0.0005       | +/- 0.0110     | -0.0033      | +/- 0.0140     |
| Magnesium Block                | -0.0007       | +/- 0.0110     | -0.0001      | +/- 0.0140     |
| Aluminum Block                 | -0.0006       | +/- 0.0110     | -0.0011      | +/- 0.0140     |
| Resolution                     | 9.00          | 6.00 - 11.50   | 9.83         | 6.00 - 11.50   |
| Internal Verifier(B+D+P+L)     | 1462          | 1200 - 2700    | 803          | 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 - 11045462         |  | Reference Calibration Date: | 14-Sep-13 14:24:51 |
| Engineer:                    | V. CREWS                    |  | Calibration Date:           | 26-Sep-13 07:10:31 |
| Software Version:            | WL INSITE R3.8.10 (Build 5) |  | Calibration Version:        | 1                  |

Pad Temperature: 43.5 degF

| DENSITY FIELD CALIBRATION SUMMARY |          |          |        |                   |
|-----------------------------------|----------|----------|--------|-------------------|
| Measurement                       | Shop     | Field    | Change | Control Limit +/- |
| Near (B+D+P+L) cps                | 1461.914 | 1458.999 | -2.915 | 15.419            |
| Far (B+D+P+L) cps                 | 803.389  | 804.501  | 1.112  | 15.689            |
| Near Resolution                   | 9.00     | 9.15     | 0.150  | 0.50              |
| Far Resolution                    | 9.83     | 10.52    | 0.690  | 1.00              |
| PASS/FAIL SUMMARY                 |          |          |        |                   |
| Bkg Quality Check:                |          |          | Passed |                   |
| Bkg Resolution Check:             |          |          | Passed |                   |
| Bkg Verification Check:           |          |          | Passed |                   |

| ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION |                             |  |                             |                    |
|---|-----------------------------|--|-----------------------------|--------------------|
| Tool Name:  | ACRt Sonde - 11953684       |  | Reference Calibration Date: | 14-May-13 15:32:46 |
| Engineer:   | B. CRAWFORD                 |  | Calibration Date:           | 01-Sep-13 13:41:47 |
| Software Version:                                   | WL INSITE R3.8.10 (Build 5) |  | Calibration Version:        | 1                  |
| Host Tool Name:                                     | ACRt Instrument - 11999267  |  |                             |                    |

| TYPICAL GAIN RANGE |        |          |       |        |          |       |        |          |       |
|--------------------|--------|----------|-------|--------|----------|-------|--------|----------|-------|
| Subarray           | R12KHz |          |       | R36KHz |          |       | R72KHz |          |       |
|                    | Lower  | (mmho/m) | Upper | Lower  | (mmho/m) | Upper | Lower  | (mmho/m) | Upper |
| A1 (80")           | 0.95   | 0.99     | 1.05  | 0.95   | 1.00     | 1.05  | 0.95   | 1.00     | 1.05  |
| A2 (50")           | 0.95   | 0.99     | 1.05  | 0.95   | 1.00     | 1.05  | 0.95   | 1.01     | 1.05  |
| A3 (29")           | 0.95   | 1.00     | 1.05  | 0.95   | 1.00     | 1.05  | 0.95   | 1.00     | 1.05  |
| A4 (17")           | 0.95   | 1.00     | 1.05  | 0.95   | 1.00     | 1.05  | 0.95   | 1.00     | 1.05  |
| A5 (10")           | N/A    | N/A      | N/A   | 0.95   | 0.99     | 1.05  | 0.95   | 1.00     | 1.05  |

| TYPICAL SONDE OFFSET RANGE |        |          |       |        |          |       |        |          |       |
|----------------------------|--------|----------|-------|--------|----------|-------|--------|----------|-------|
| Subarray                   | R12KHz |          |       | R36KHz |          |       | R72KHz |          |       |
|                            | Lower  | (mmho/m) | Upper | Lower  | (mmho/m) | Upper | Lower  | (mmho/m) | Upper |
| A1 (80")                   | -5     | -0.66    | 2     | -6     | -3.85    | -2    | -8     | -4.54    | -2    |
| A2 (50")                   | -7     | -2.39    | 0     | -7     | -3.57    | 0     | -7     | -4.54    | 0     |
| A3 (29")                   | -27    | -13.44   | -9    | -9     | -3.72    | -3    | -7     | -3.12    | -1    |
| A4 (17")                   | -180   | -100.61  | -60   | -45    | -35.24   | -15   | -39    | -28.78   | -13   |
| A5 (10")                   | N/A    | N/A      | N/A   | -150   | -94.54   | -50   | -80    | -48.49   | -10   |
| A6 (6")                    | N/A    | N/A      | N/A   | 175    | 274.17   | 525   | 90     | 133.16   | 270   |

| CALIBRATION SUMMARY  |          |          |       |            |            |       |
|----------------------|----------|----------|-------|------------|------------|-------|
| Sensor               | Shop     | Field    | Post  | Difference | Tolerance  | Units |
| GTET-10843477        |          |          |       |            |            |       |
| Gamma Ray Calibrator | 263.5    | 267.5    | ----- | -4.0       | +/- 9.00   | api   |
| DSNT-10846353        |          |          |       |            |            |       |
| Snow-Block Porosity  | 0.0687   | 0.0630   | ----- | 0.0057     | +/- 0.0150 | decg  |
| SDLT-11014275        |          |          |       |            |            |       |
| Pad Extension        | 3.75     | 3.70     | ----- | 0.05       | +/-0.10    | in    |
| Ring Diameter        | 8.25     | 8.24     | ----- | 0.01       | +/-0.15    | in    |
| SDLT Pad-11045462    |          |          |       |            |            |       |
| Near(B+D+P+L)        | 1461.914 | 1458.999 | ----- | 2.915      | +/-15.419  | cps   |
| Far(B+D+P+L)         | 803.389  | 804.501  | ----- | -1.112     | +/-15.689  | cps   |
| ACRt Sonde-11953684  |          |          |       |            |            |       |
| Mud Cell             | 1.00     | -----    | ----- | 0.00       | -----      | ohm-m |

HALLIBURTON

CUSTOMER EVENT LOG

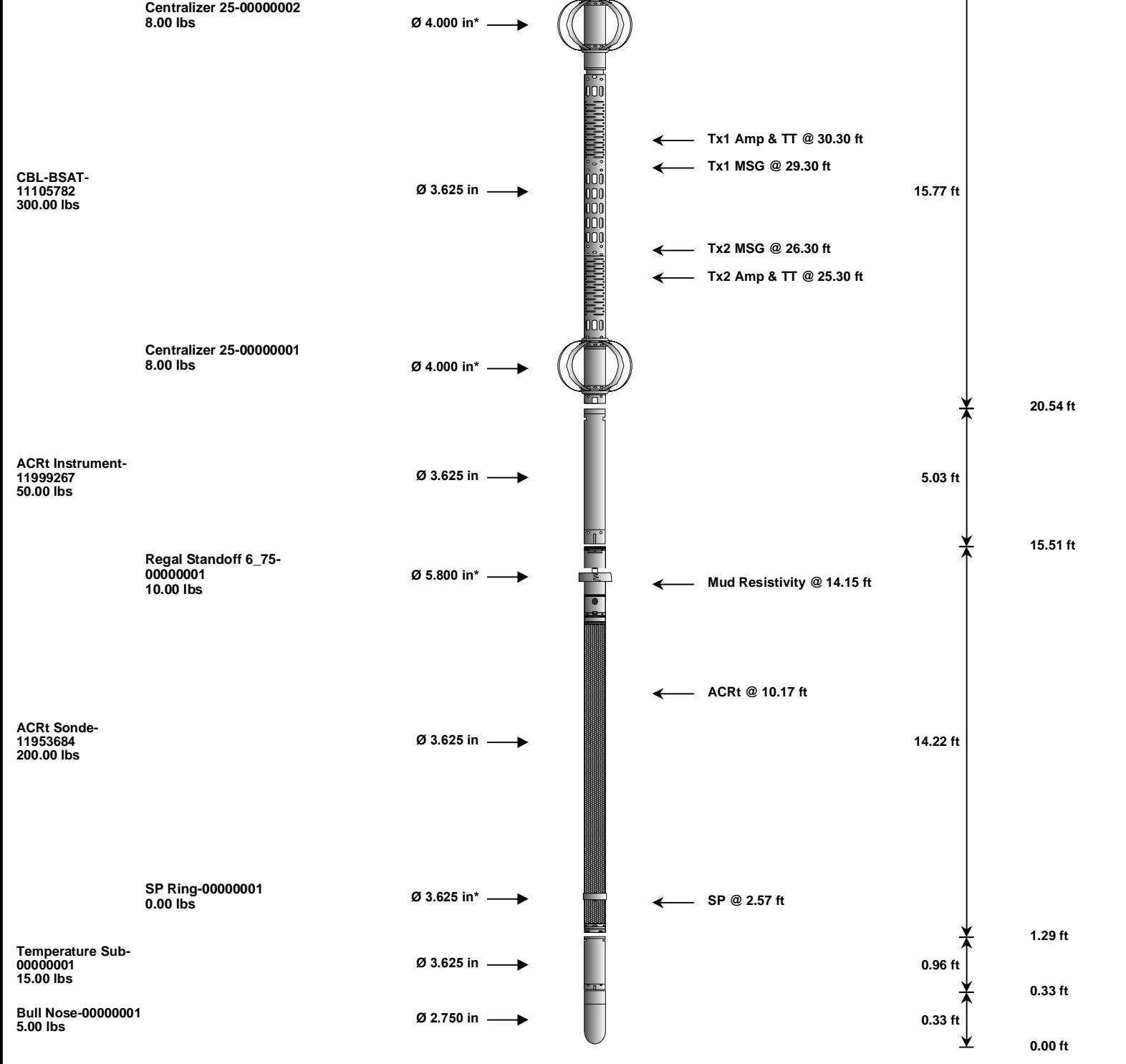
| Event Type | Time & Date        | Depth (ft) | Event Description                       |
|------------|--------------------|------------|---|
|            | 26-Sep-13 08:49:21 | 1470.75    | Logging 001 26-Sep-13 08:49 Up @1470.8f |
|            | 26-Sep-13 08:55:17 | 1153.66    | Halting 001 26-Sep-13 08:49 Up @1470.8f |
|            | 26-Sep-13 08:56:17 | 1022.25    | Logging 002 26-Sep-13 08:56 Dn @1022.3f |
|            | 26-Sep-13 09:09:19 | 3471.17    | Halting 002 26-Sep-13 08:56 Dn @1022.3f |
|            | 26-Sep-13 09:10:52 | 3503.50    | Logging 003 26-Sep-13 09:10 Up @3503.5f |
|            | 26-Sep-13 09:19:49 | 3065.92    | Halting 003 26-Sep-13 09:10 Up @3503.5f |
|            | 26-Sep-13 09:22:14 | 3502.50    | Logging 004 26-Sep-13 09:22 Up @3502.5f |
|            | 26-Sep-13 09:37:17 | 2812.29    | Halting 004 26-Sep-13 09:22 Up @3502.5f |



HALLIBURTON

TOOL STRING DIAGRAM REPORT

| Description                 | Overbody Description                       | O.D.                          | Diagram | Sensors @ Delays                                      | Length   | Accumulated Length |
|-----------------------------|--|-------------------------------|---------|---|----------|--------------------|
|                             |  |                               |         |   | 79.56 ft |                    |
| RWCH-11103904<br>135.00 lbs |  | Ø 3.625 in →                  |         | ← Load Cell @ 75.87 ft<br>← BH Temperature @ 75.31 ft | 6.25 ft  |                    |
| CCL-D-00115000<br>60.00 lbs |  | Ø 3.625 in →                  |         | ← CCL @ 72.60 ft                                      | 2.00 ft  | 73.31 ft           |
| GTET-10843477<br>165.00 lbs |  | Ø 3.625 in →                  |         |   | 8.52 ft  | 71.31 ft           |
| DSNT-10846353<br>174.00 lbs | DSN Decentralizer-<br>10846353<br>6.60 lbs | Ø 5.000 in* →<br>Ø 3.625 in → |         | ← DSN Far @ 55.85 ft<br>← DSN Near @ 55.10 ft         | 9.69 ft  | 62.79 ft           |
| SDLT-11014275<br>360.00 lbs | SDLT Pad-11045462<br>65.00 lbs             | Ø 4.500 in →<br>Ø 4.750 in* → |         | ← SDL Caliper @ 45.10 ft<br>← SDL @ 45.09 ft          | 10.81 ft | 53.10 ft           |
|                             |  |                               |         |   |          | 42.29 ft           |
|                             |  |                               |         |   |          | 36.32 ft           |
|                             |  |                               |         |   |          |                    |
|                             |  |                               |         |   |          |                    |



| Mnemonic | Tool Name   | Serial Number | Weight (lbs) | Length (ft) | Accumulated Length (ft) | Max.Log. Speed (fpm) |
|----------|---|---------------|--------------|-------------|-------------------------|----------------------|
| RWCH     | Releasable Wireline Cable Head                        | 11103904      | 135.00       | 6.25        | 73.31                   | 300.00               |
| CCL      | Casing Collar Locator - Digital Source                | 00115000      | 60.00        | 2.00        | 71.31                   | 300.00               |
| GTET     | Gamma Telemetry Tool                                  | 10843477      | 165.00       | 8.52        | 62.79                   | 60.00                |
| DSNT     | Dual Spaced Neutron                                   | 10846353      | 174.00       | 9.69        | 53.10                   | 60.00                |
| DCNT     | DSN Decentralizer                                     | 10846353      | 6.60         | 5.13        | * 56.43                 | 300.00               |
| SDLT     | Spectral Density Tool                                 | 11014275      | 360.00       | 10.81       | 42.29                   | 60.00                |
| SDLP     | Density Insite Pad                                    | 11045462      | 65.00        | 2.55        | * 44.50                 | 60.00                |
| FLEX     | Flex Joint - Pressure Compensated                     | 12002107      | 140.00       | 5.97        | 36.32                   | 300.00               |
| CBL-BSAT | Borehole Sonic Array Tool - CBL                       | 11105782      | 300.00       | 15.77       | 20.54                   | 60.00                |
| OBCEN    | Centralizer - 25 in. Overbody                         | 00000001      | 8.00         | 2.08        | * 20.96                 | 300.00               |
| OBCEN    | Centralizer - 25 in. Overbody                         | 00000002      | 8.00         | 2.08        | * 33.45                 | 300.00               |
| ACRt     | Array Compensated True Resistivity Instrument Section | 11999267      | 50.00        | 5.03        | 15.51                   | 300.00               |
| ACRt     | Array Compensated True Resistivity Sonde Section      | 11953684      | 200.00       | 14.22       | 1.29                    | 300.00               |
| RSOF     | Regal Standoff 6.75in                                 | 00000001      | 10.00        | 0.52        | * 14.16                 | 300.00               |
| SP       | SP Ring   | 00000001      | 0.00         | 0.25        | * 2.57                  | 300.00               |
| TMAX     | Temperature Sub - 3_625 OD                            | 00000001      | 15.00        | 0.96        | 0.33                    | 300.00               |
| BLNS     | Bull Nose   | 00000001      | 5.00         | 0.33        | 0.00                    | 300.00               |

|             |                               |   |          |
|-------------|-------------------------------|---|----------|
| COMPANY     | KOCH EXPLORATION COMPANY, LLC |   |          |
| WELL        | AHU WYATT 25-43 SWD           |   |          |
| FIELD       | WHITE RIVER DOME              |   |          |
| COUNTY      | RIO BLANCO                    | STATE                                   | COLORADO |
| HALLIBURTON |                               | SPECTRAL DENSITY<br>DUAL SPACED NEUTRON |          |