









Induction  
Temperatu  
Power Sup

7.9

SP SENSOR  
HTEN HMAS  
Accelerom HV  
Mud Resis  
Tension

0.1

0.0

TOOL ZERO

MAXIMUM STRING DIAMETER 4.63 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN FEET

Production String

(in)

(ft)

OD

ID

MD

Well Schematic

(ft)

(in)

MD

OD

ID

Casing String

Casing String

Casing Shoe  
Borehole Segment

0.0

8.625

8.097

771.0

8.625

8.097

771.0

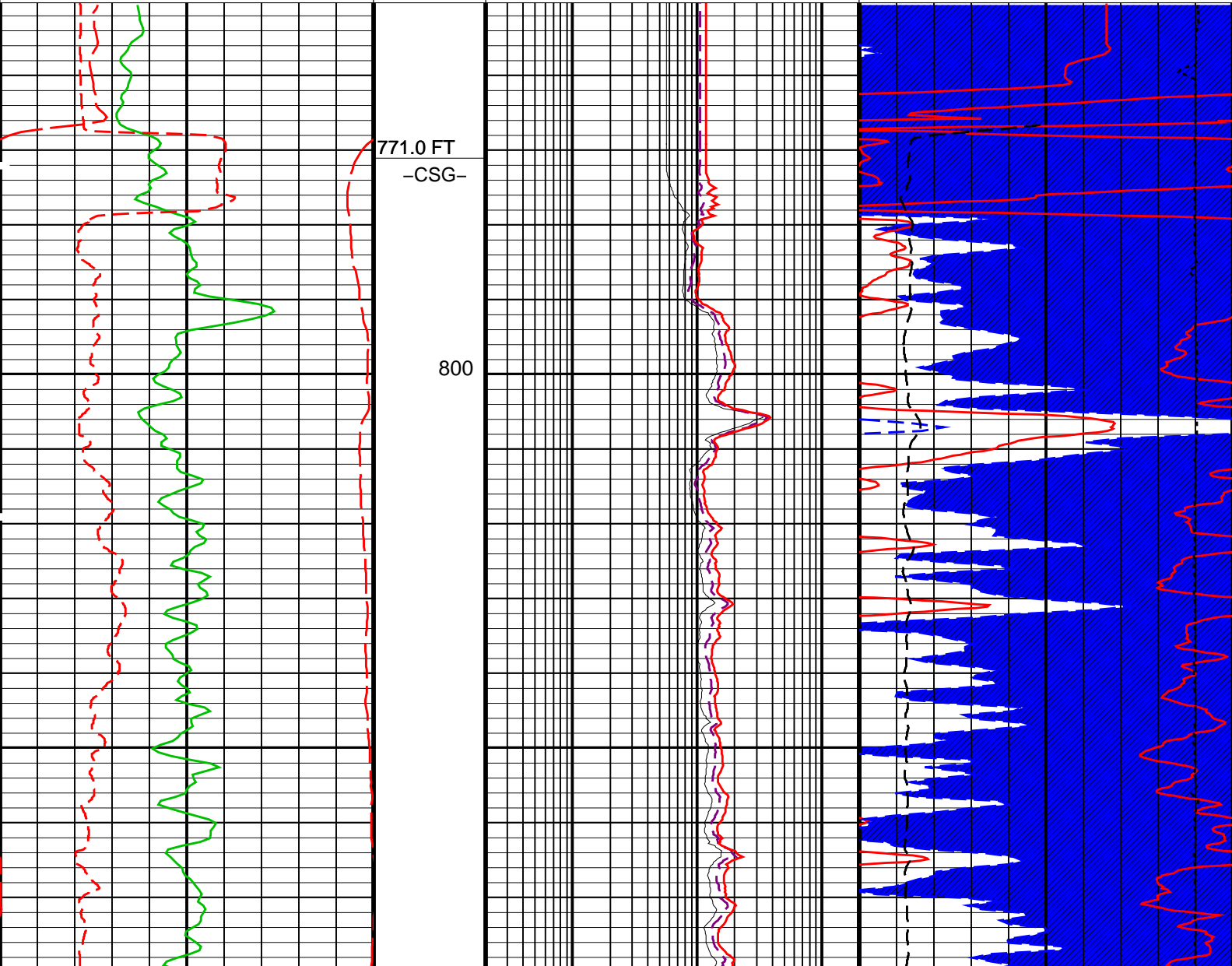
7.875

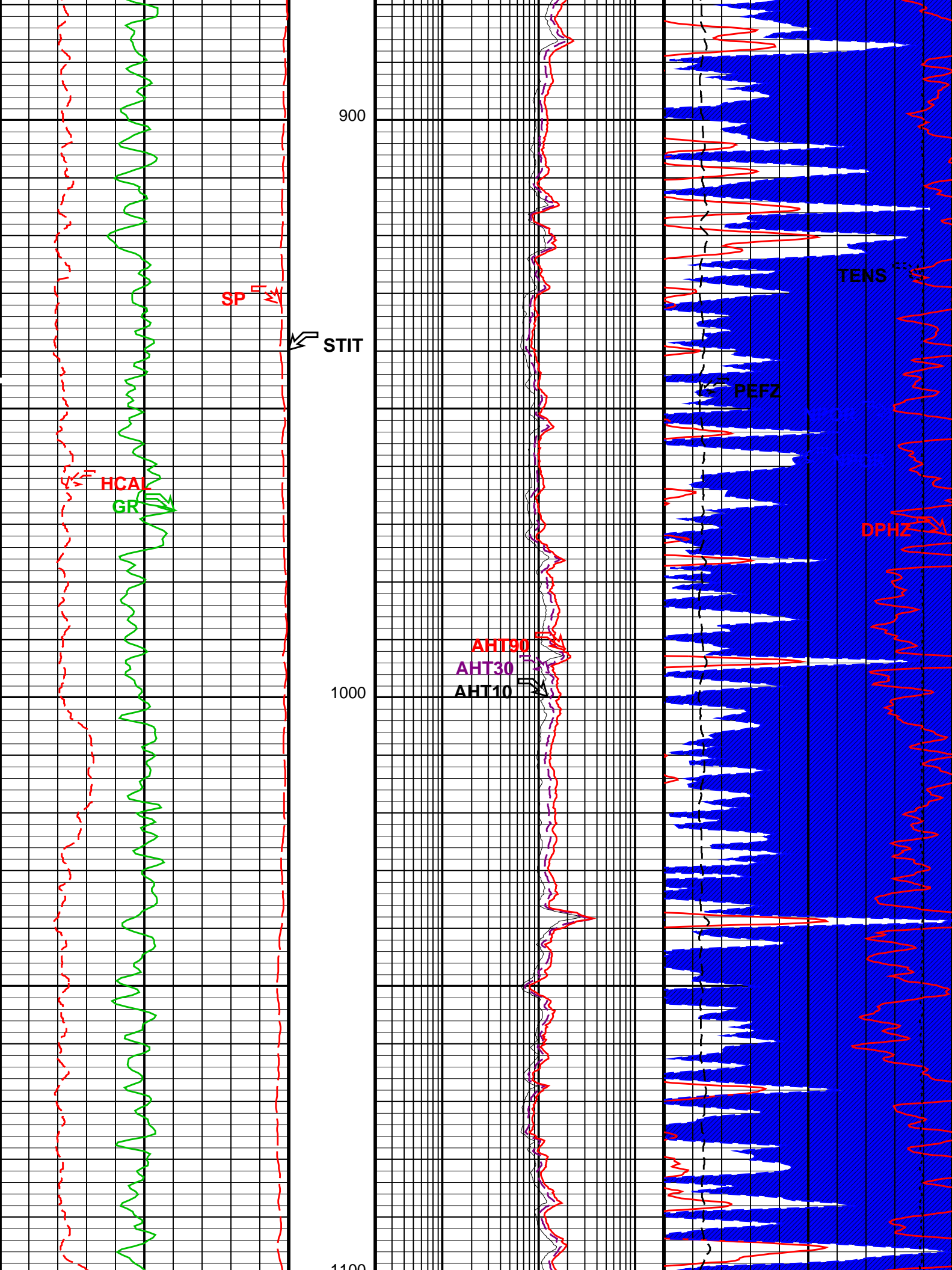


|      |                        |      |      |                        |      |      |                 |
|------|------------------------|------|------|------------------------|------|------|-----------------|
| MDEN | SANDSTONE<br>LIMESTONE | 2.65 | G/C3 | SANDSTONE<br>SANDSTONE | 2.68 | G/C3 | 7826.0 02:34:25 |
|      |                        | 2.68 | G/C3 |                        | 2.65 | G/C3 | 7550.0 02:34:33 |
|      |                        | 2.71 | G/C3 |                        | 2.65 | G/C3 | 8201.0 02:34:13 |
|      |                        |      |      |                        | 2.68 | G/C3 | 7826.0 02:34:25 |
|      |                        |      |      |                        |      |      | 7550.0 02:34:33 |

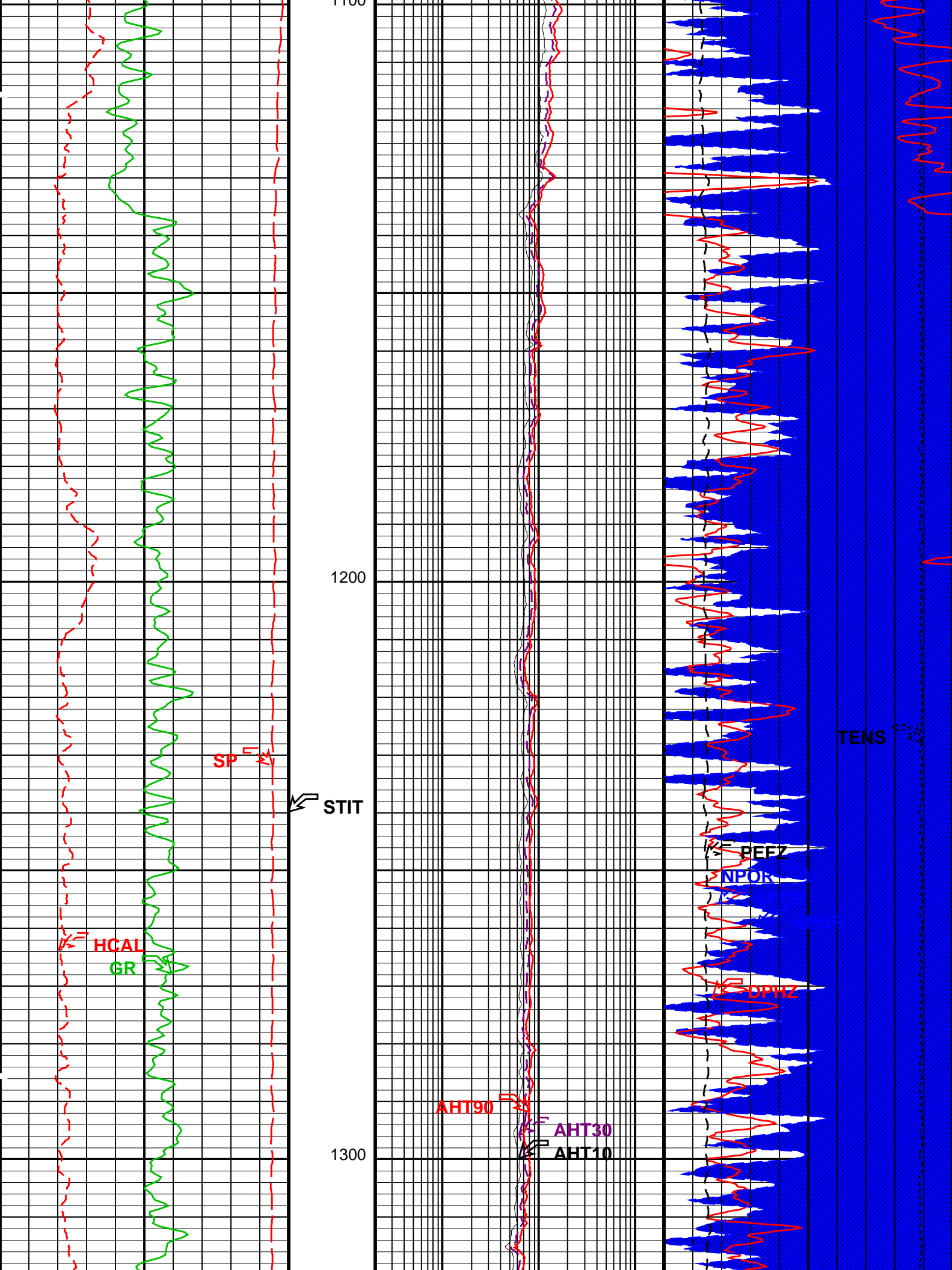
|                      |  |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|--|
| PIP SUMMARY          |  |  |  |  |  |  |  |
| Time Mark Every 60 S |  |  |  |  |  |  |  |

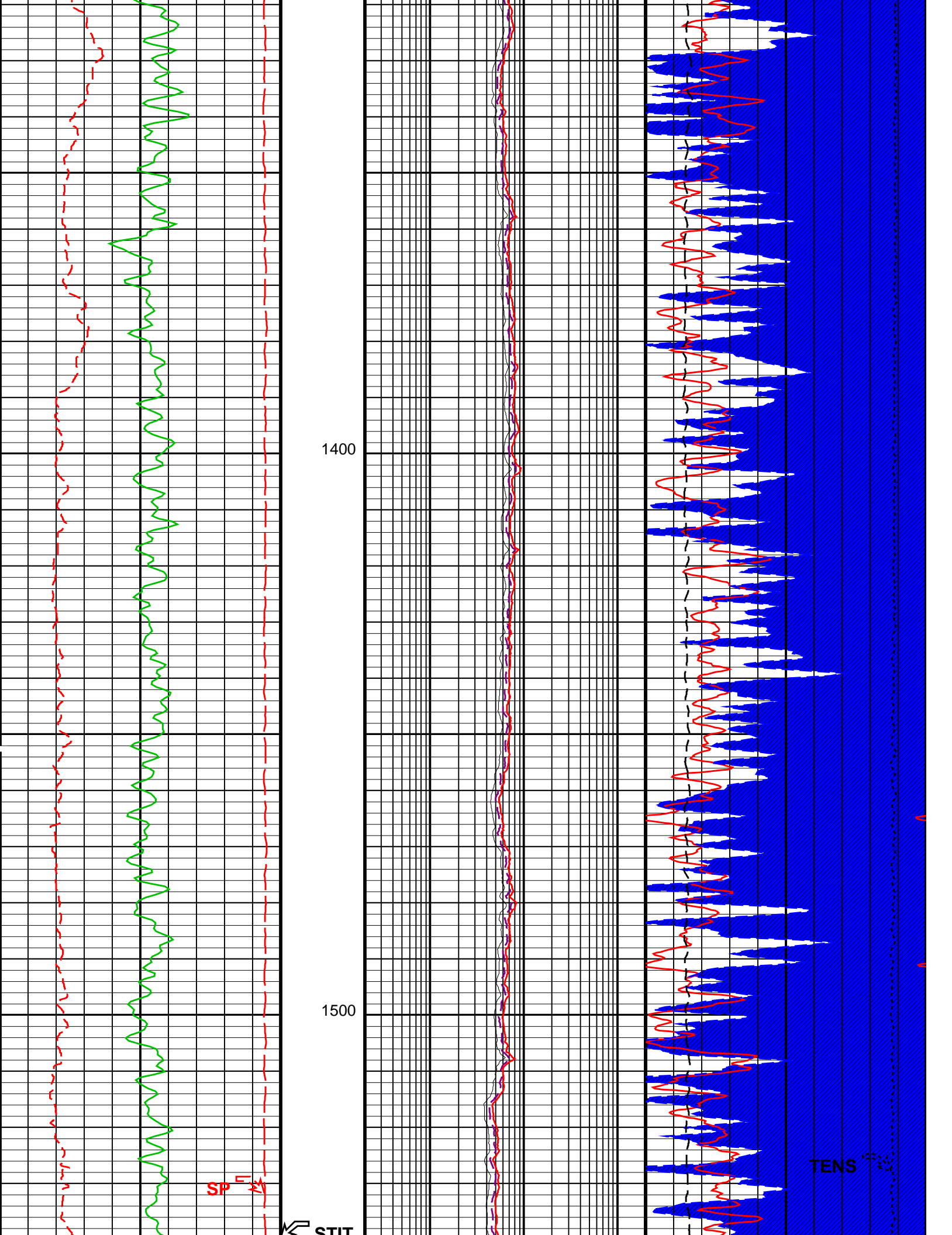
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|----------------------------------|--|--|---|--|---|--|
|                                  |  |  | Std. Res. Formation<br>Pe (PEFZ)<br>0 (---- 10          |  |   |  |
|                                  |  |  | Alpha Processed Neutron Porosity<br>(NPOR)<br>0.2 (V/V) |  | 0   |  |
|                                  |  |  | Tension (TENS)<br>10000 (LBF)                           |  | 0   |  |
| SP (SP)<br>-160 (MV) 40          |  |  | AIT-H 90 Inch Investigation (AHT90)<br>0.2 (OHMM) 200   |  | GAS EFFECT<br>From DPHZ to NPOR_1                     |  |
| HILT Caliper (HCAL)<br>6 (IN) 16 |  |  | AIT-H 30 Inch Investigation (AHT30)<br>0.2 (OHMM) 200   |  | NPOR BACKUP<br>From NPOR_2 to T3                      |  |
| Gamma Ray (GR)<br>0 (GAPI) 200   |  |  | Stuck<br>Stretch<br>(STIT)<br>0 (F) 50                  |  | AIT-H 10 Inch Investigation (AHT10)<br>0.2 (OHMM) 200 |  |
|                                  |  |  |   |  | Std. Res. Density Porosity (DPHZ)<br>0.2 (V/V) 0      |  |

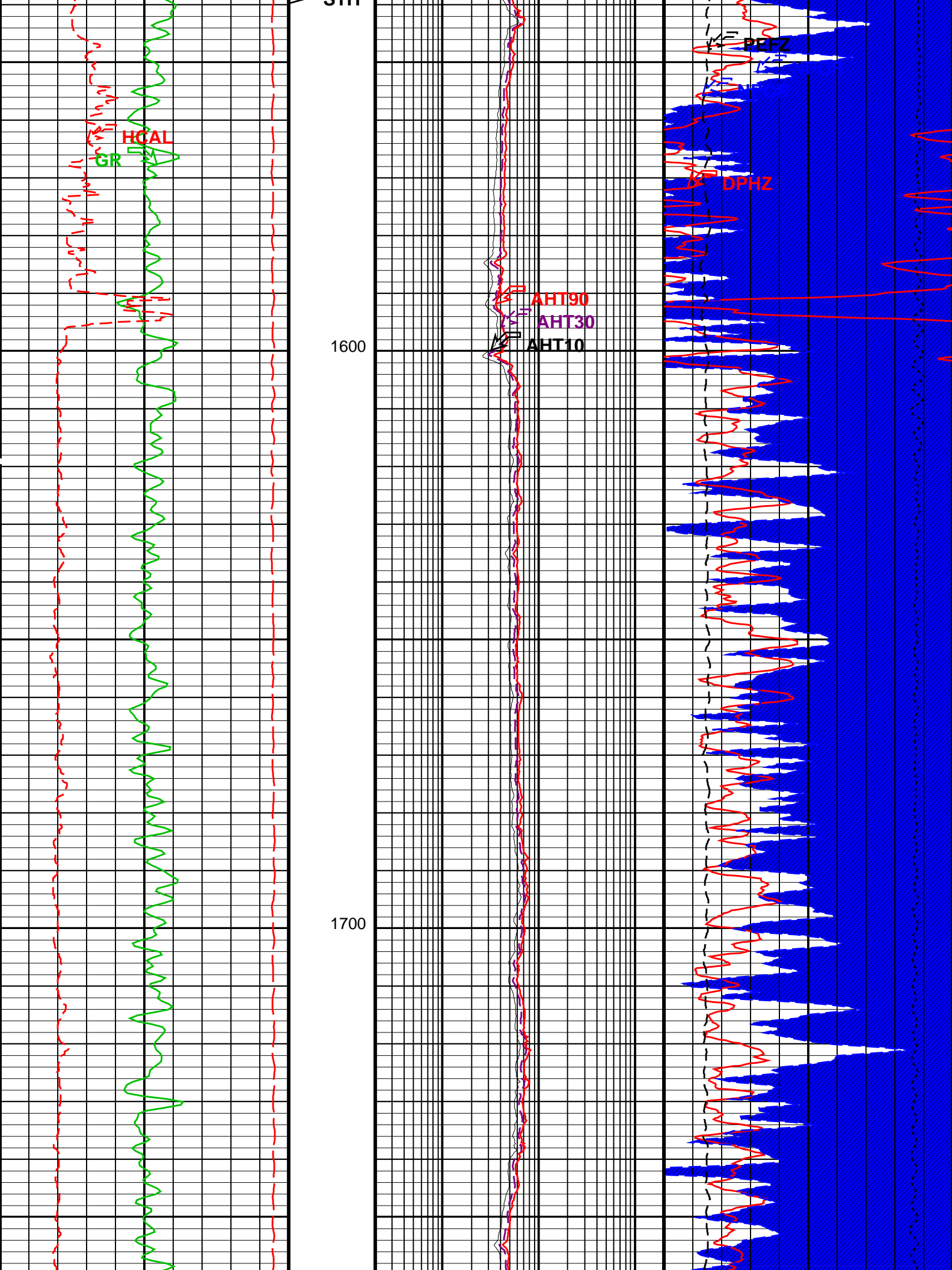


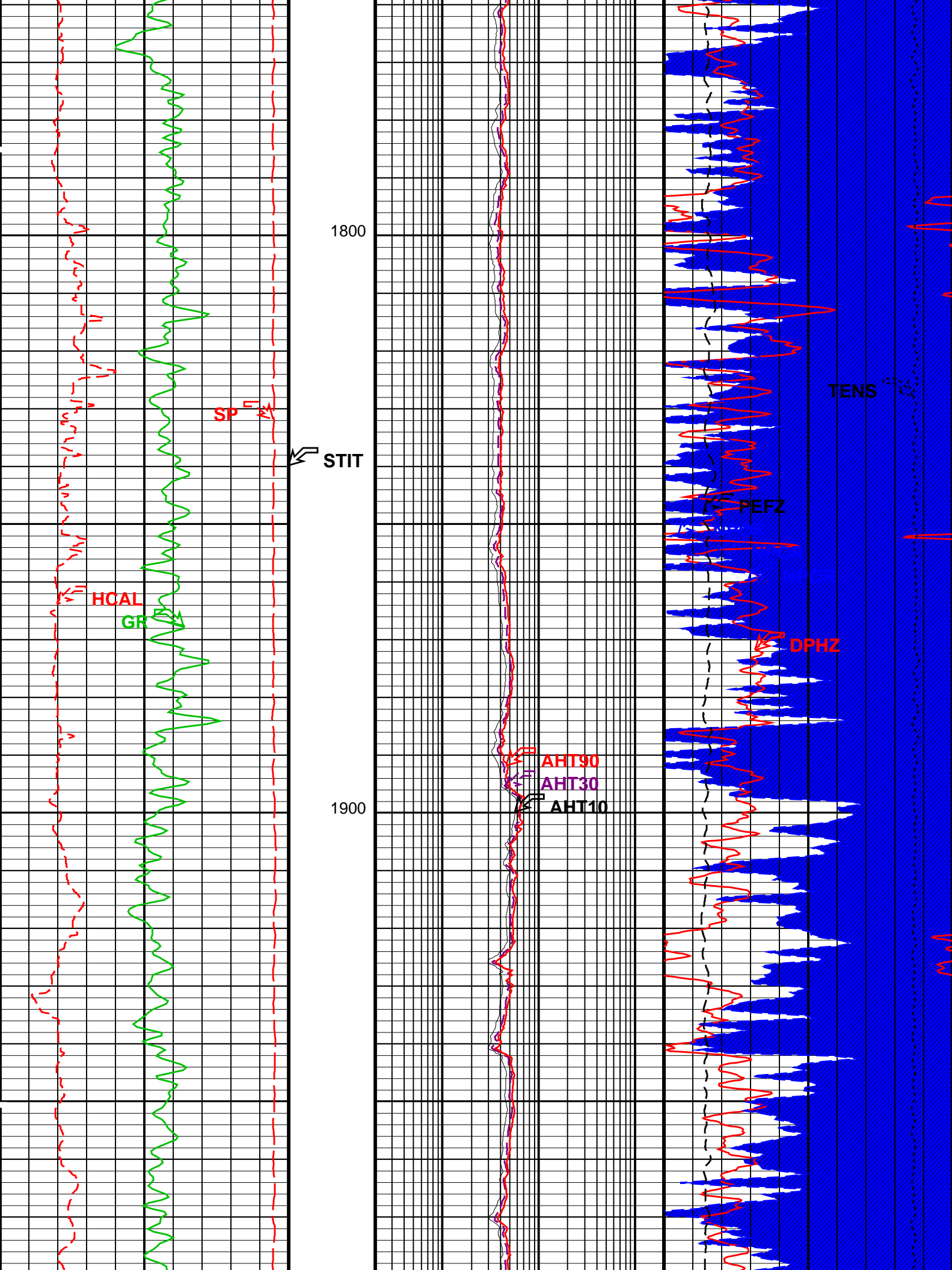




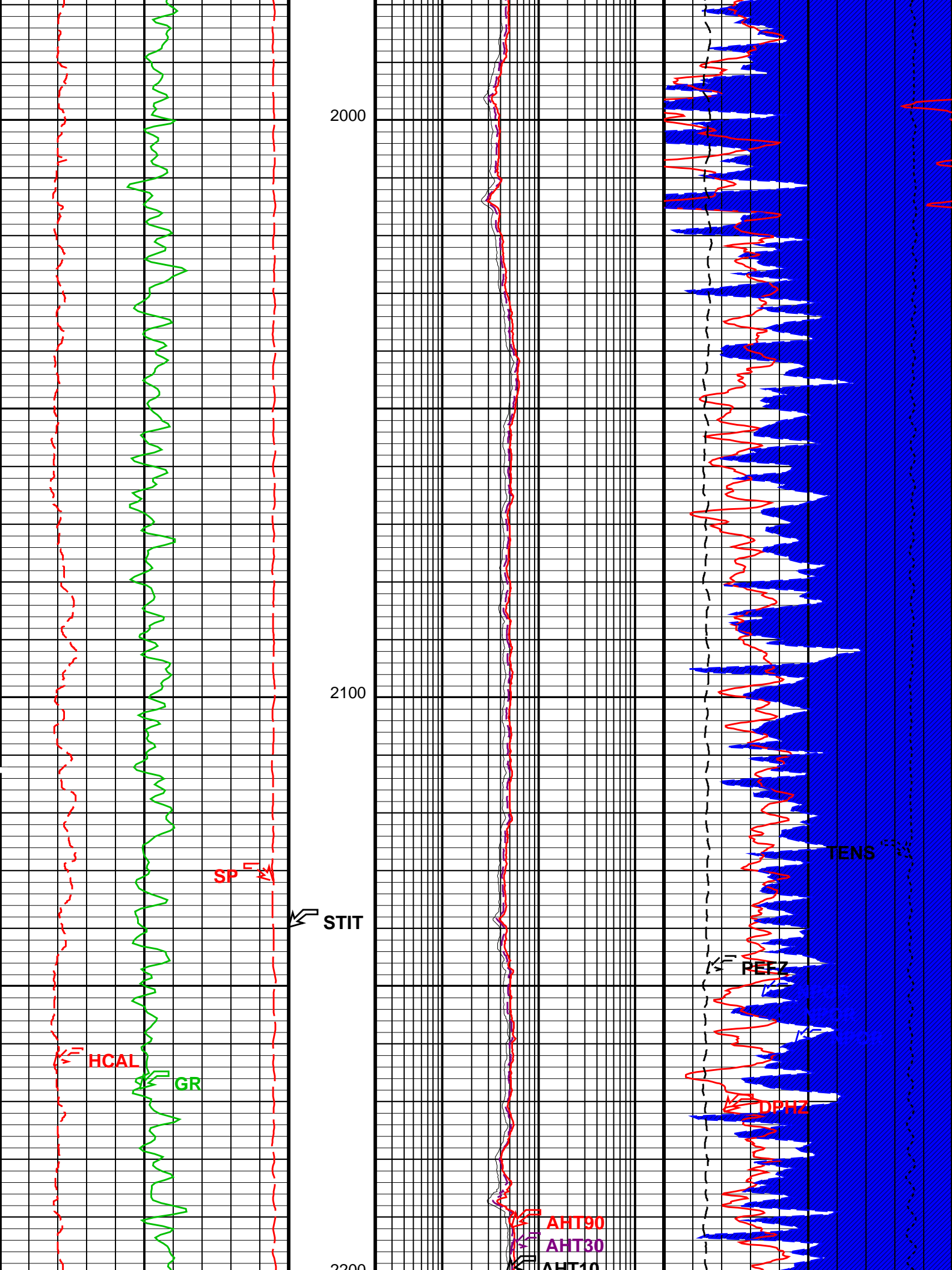


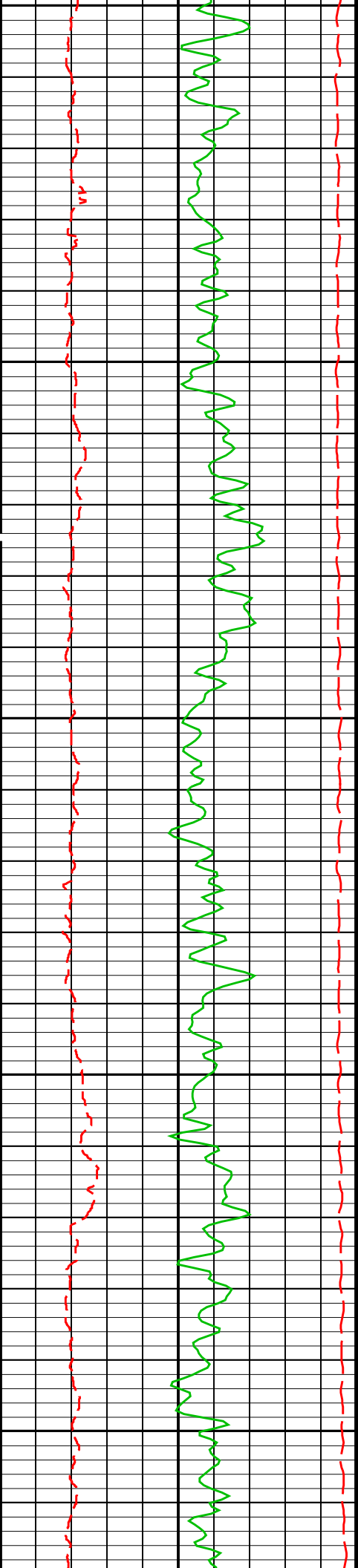








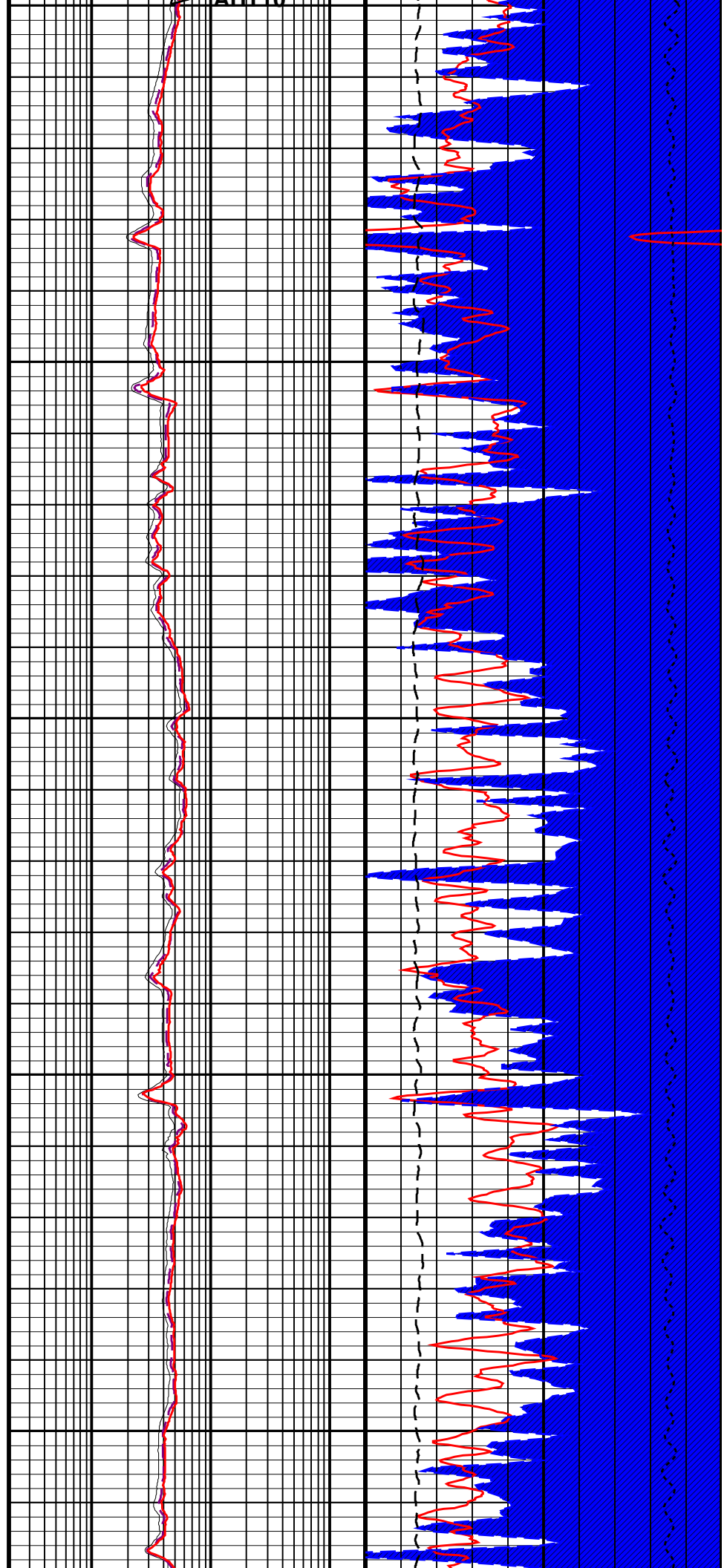


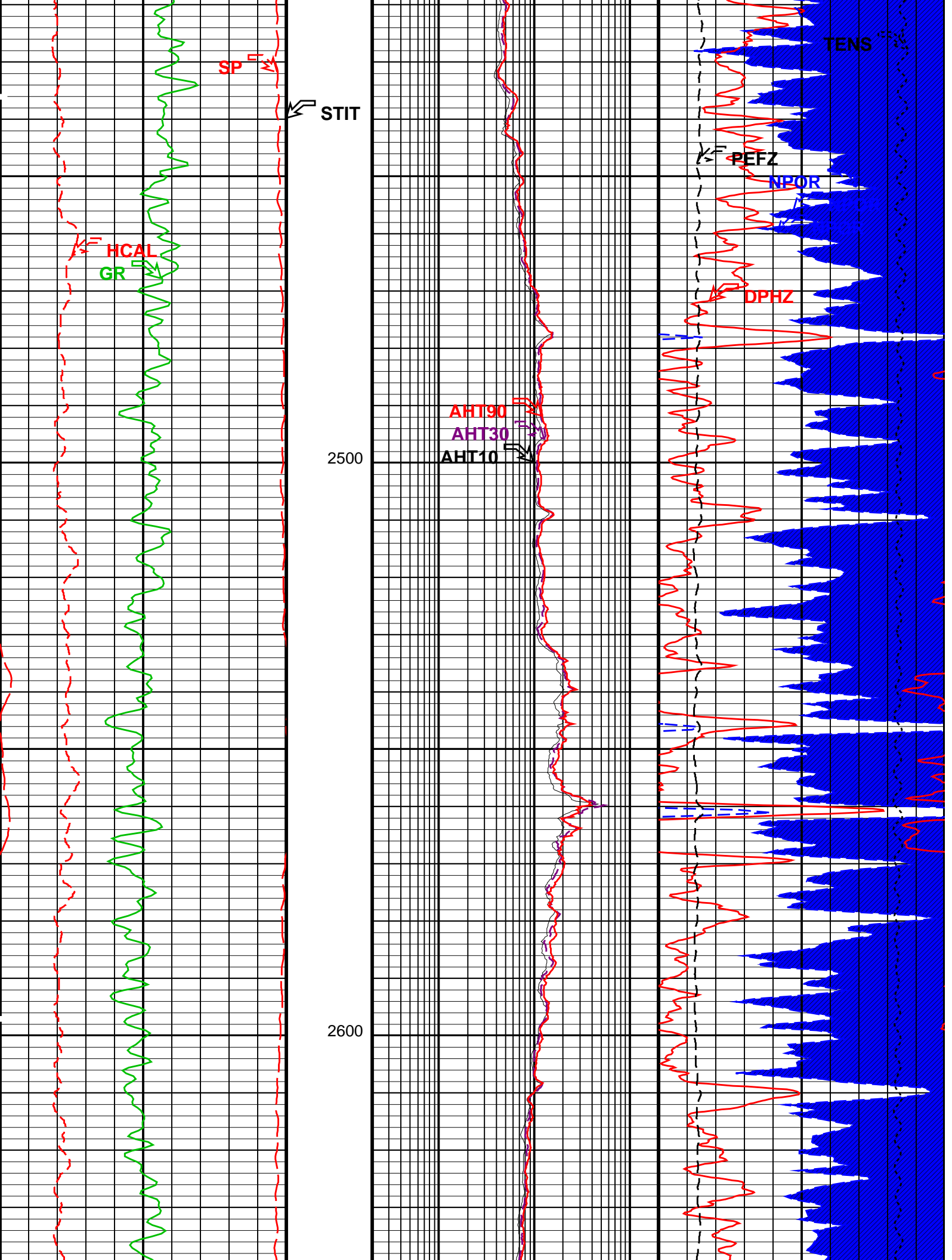


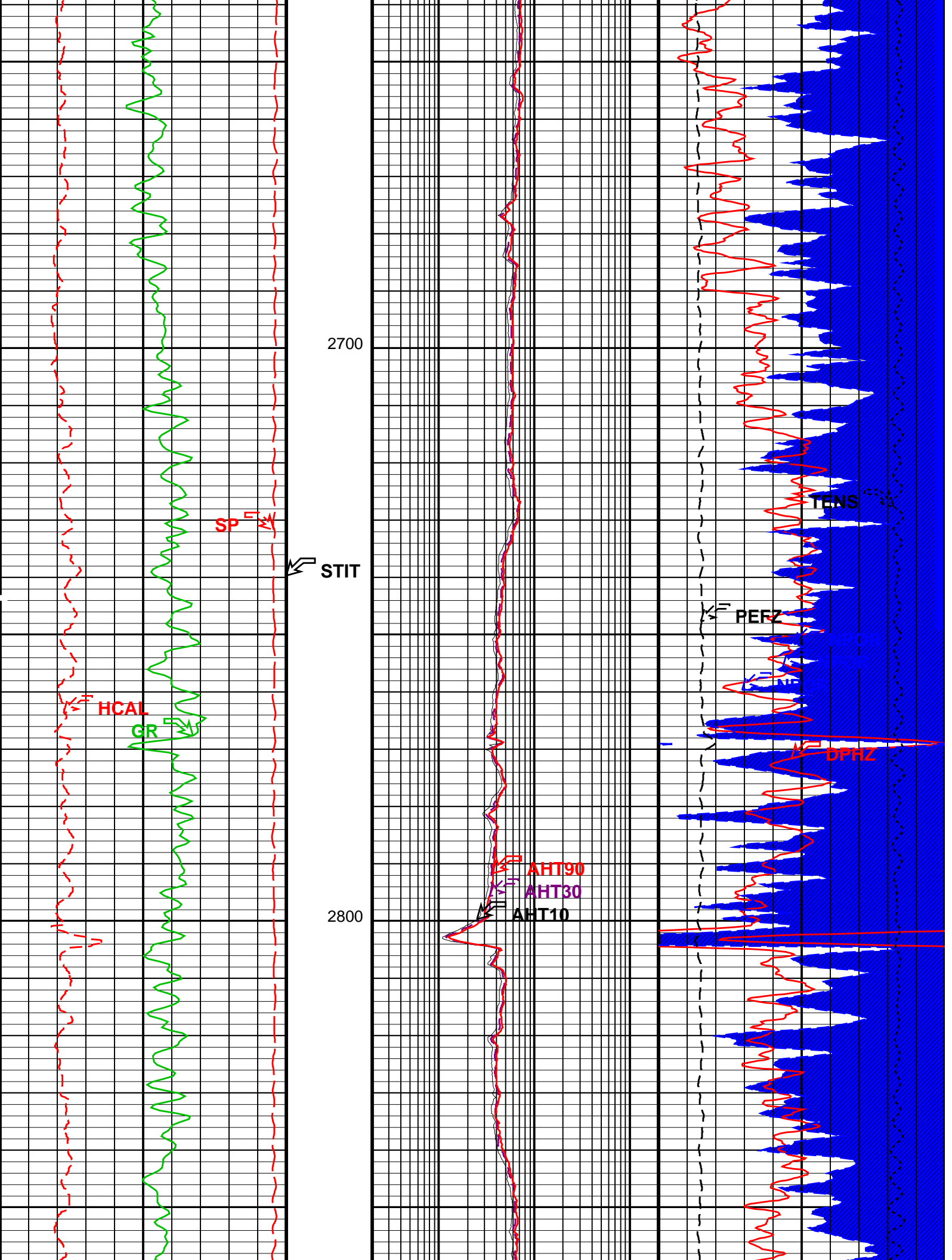
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2300

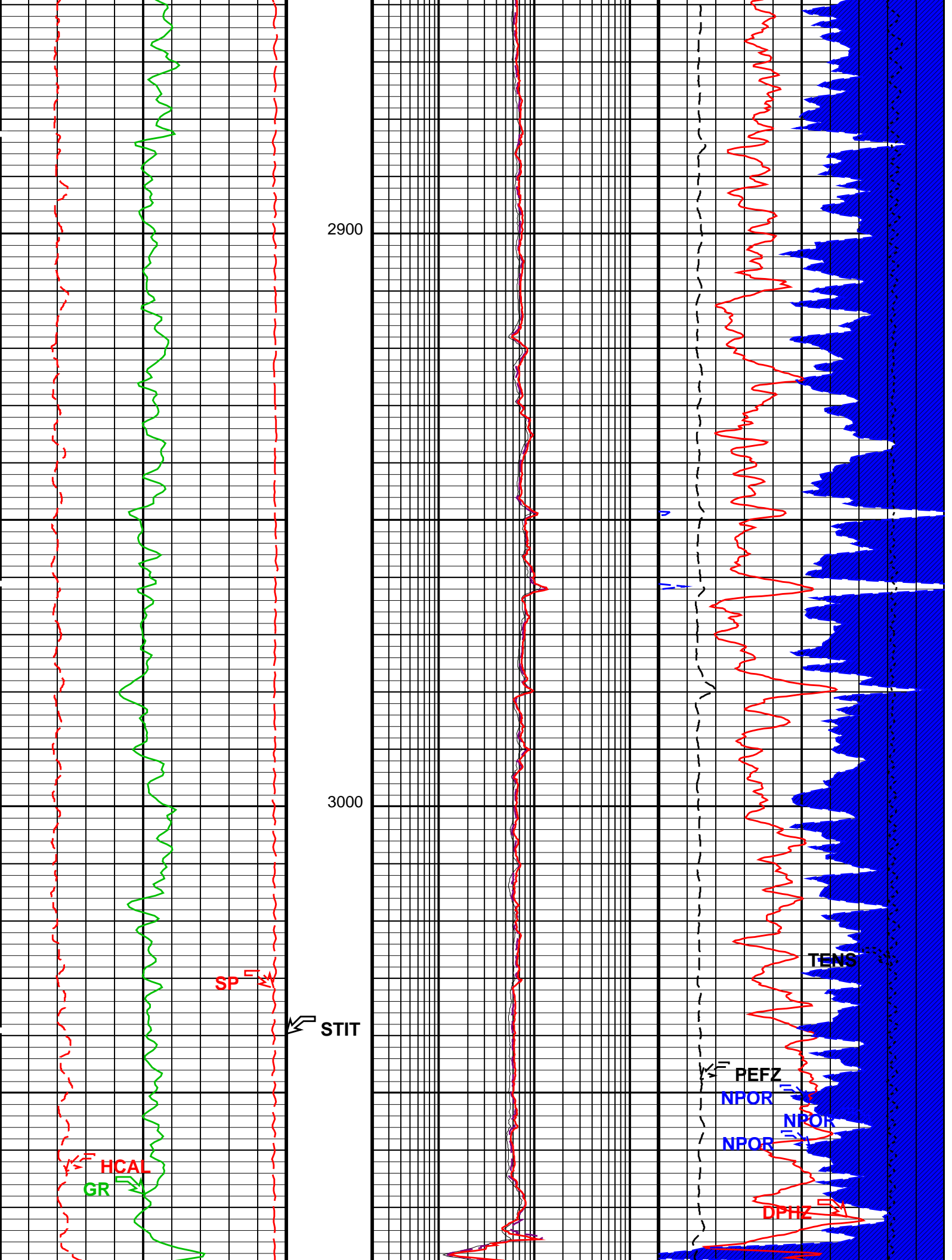
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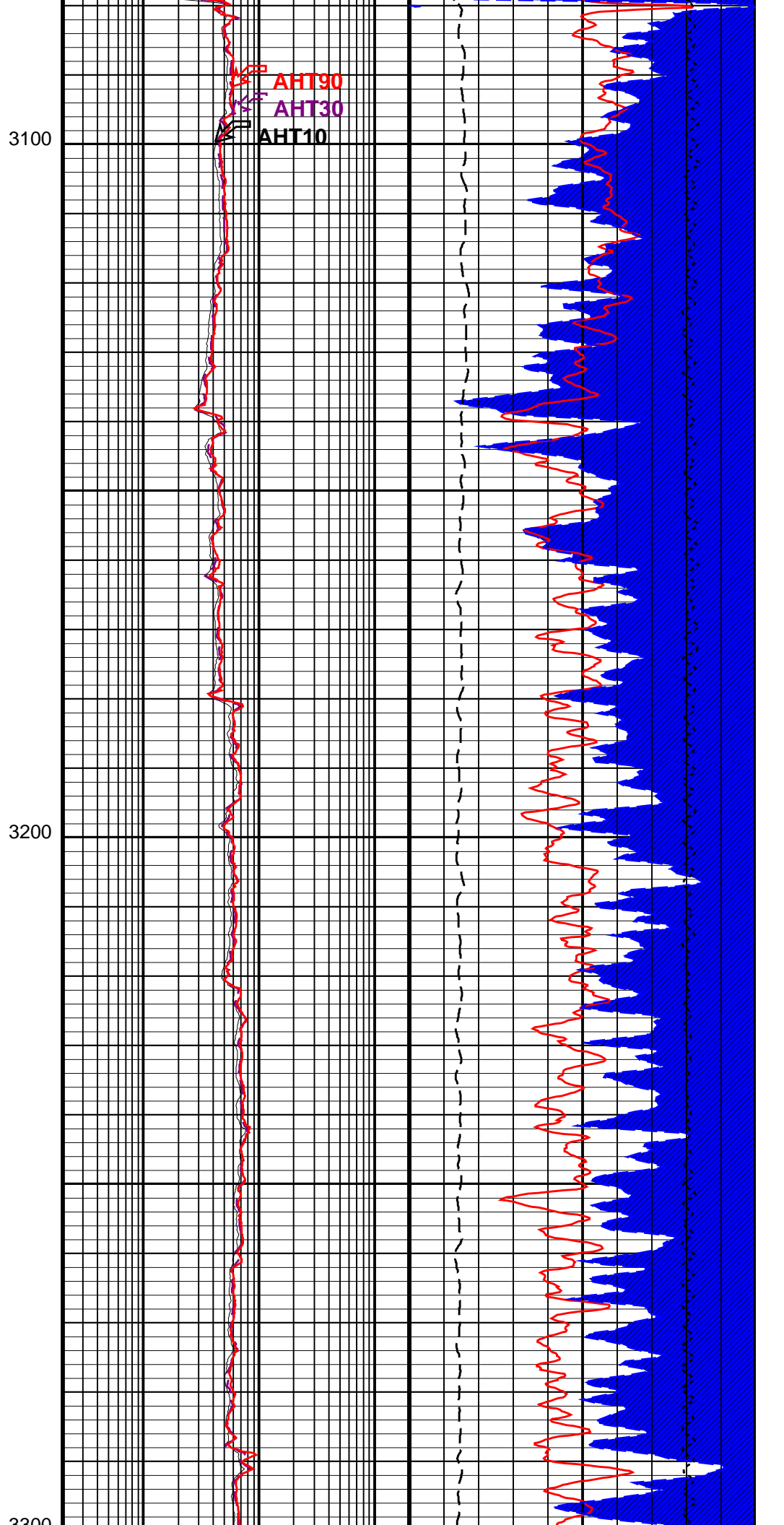
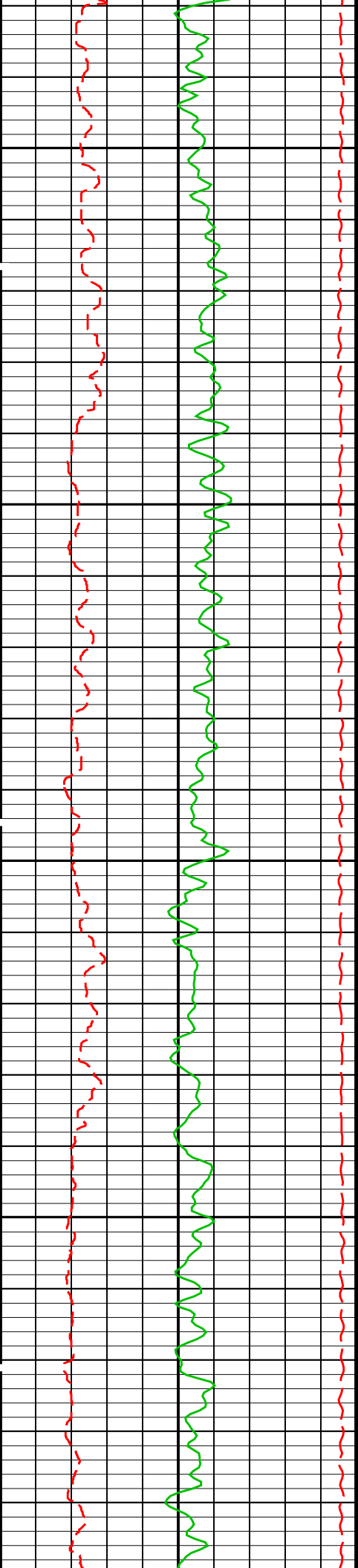


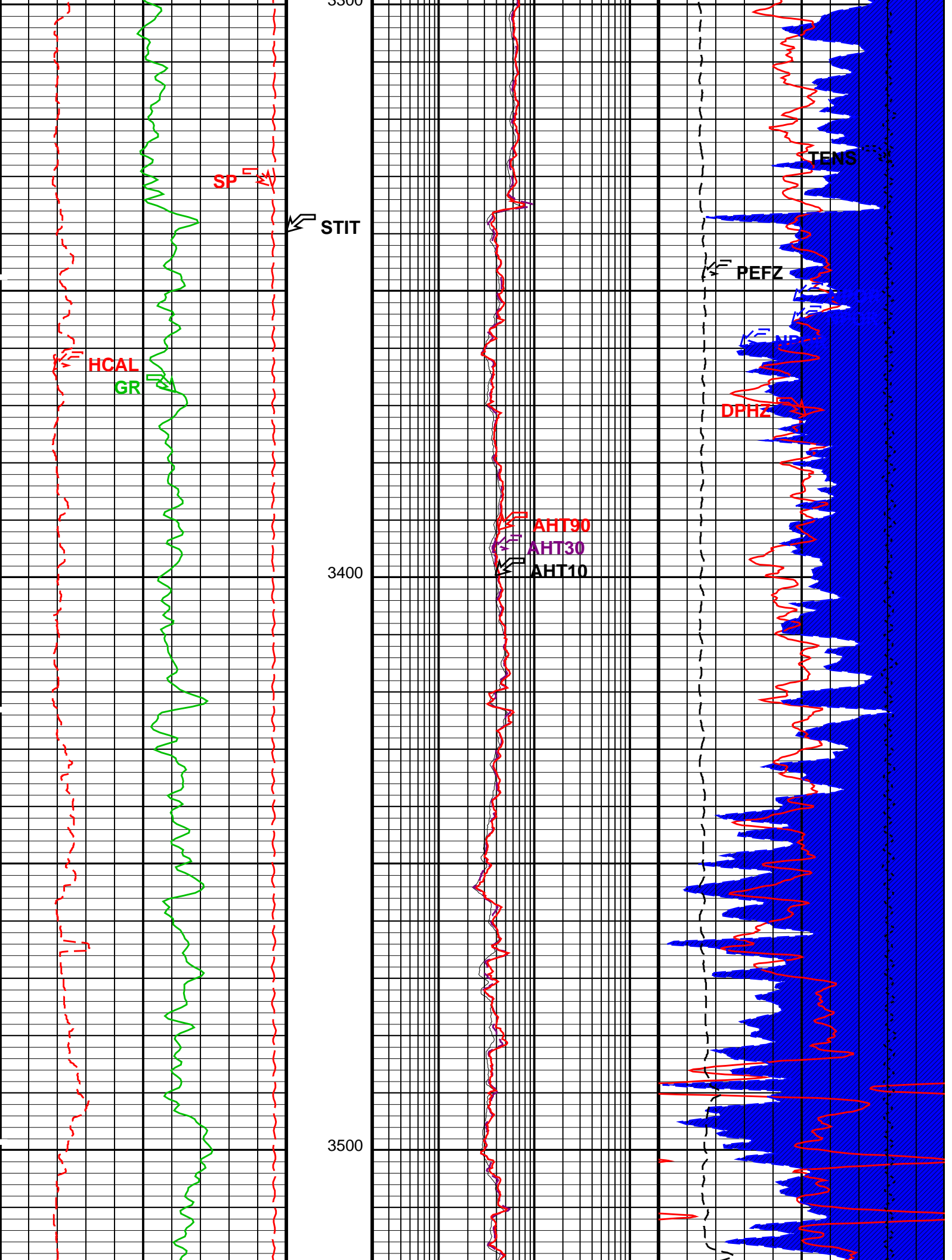


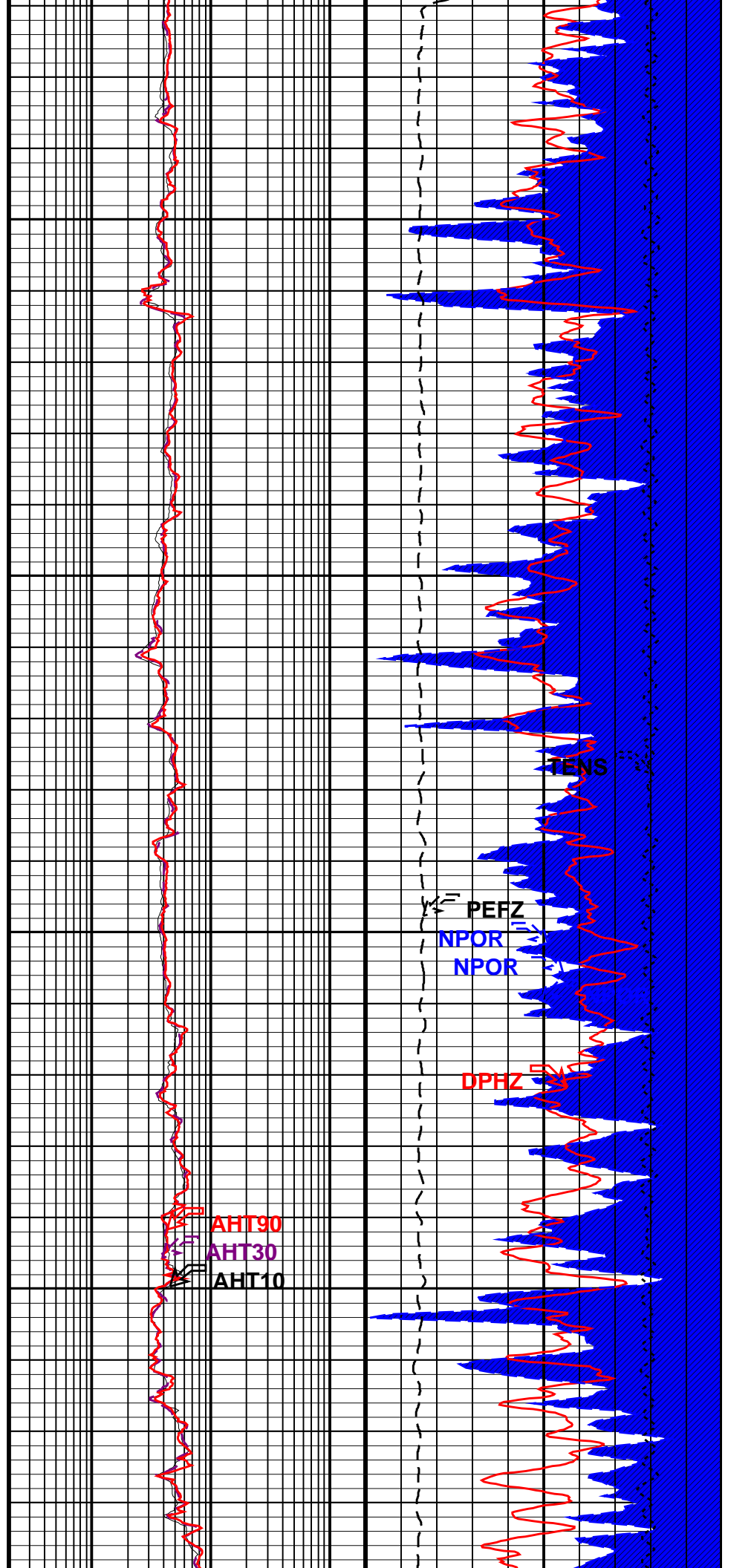
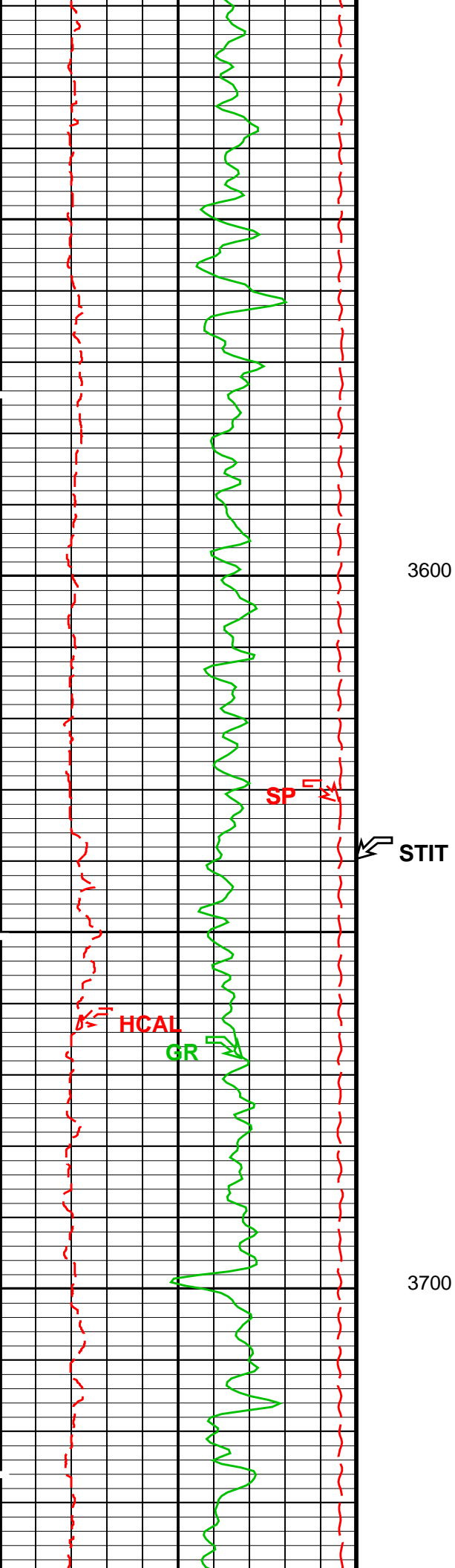


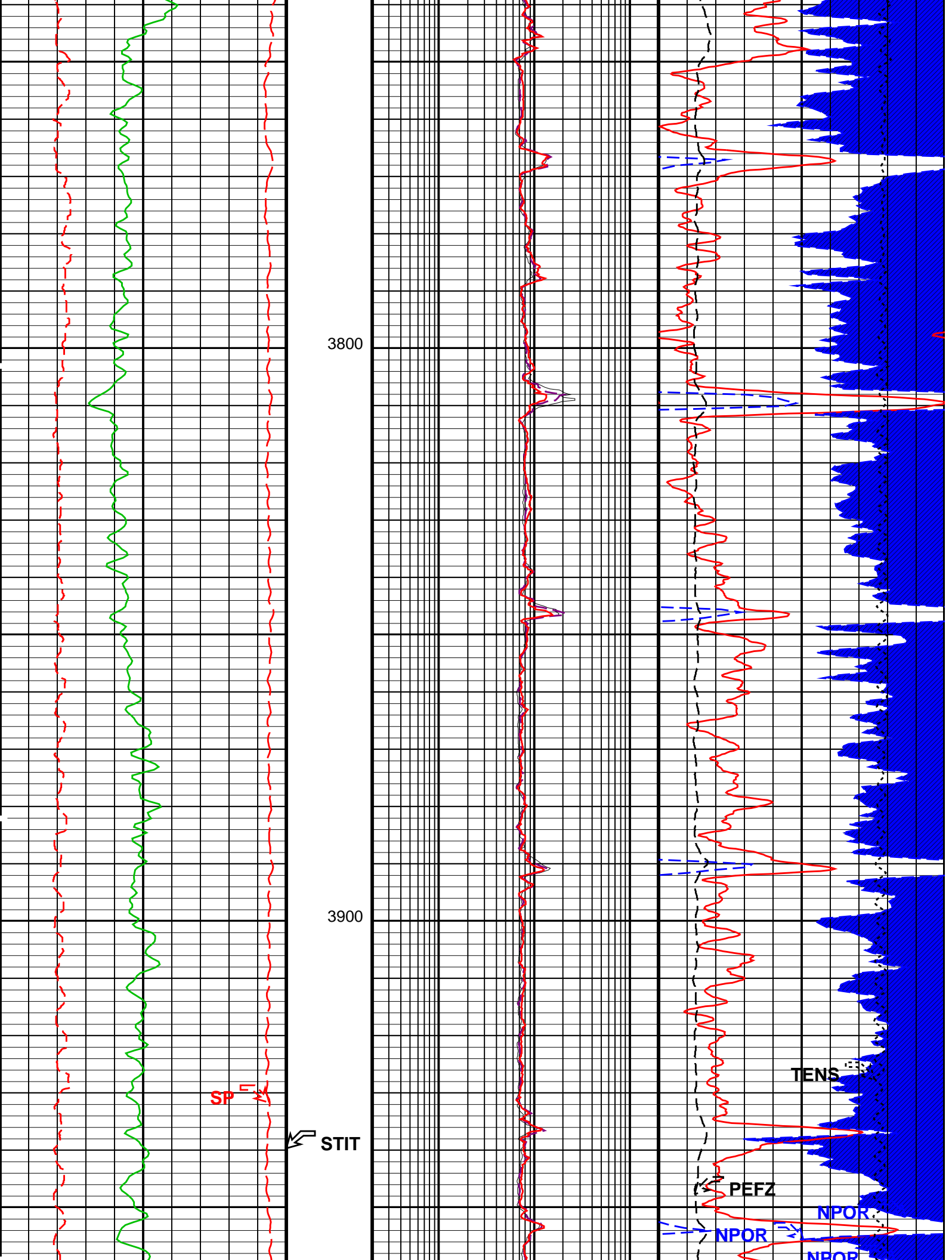




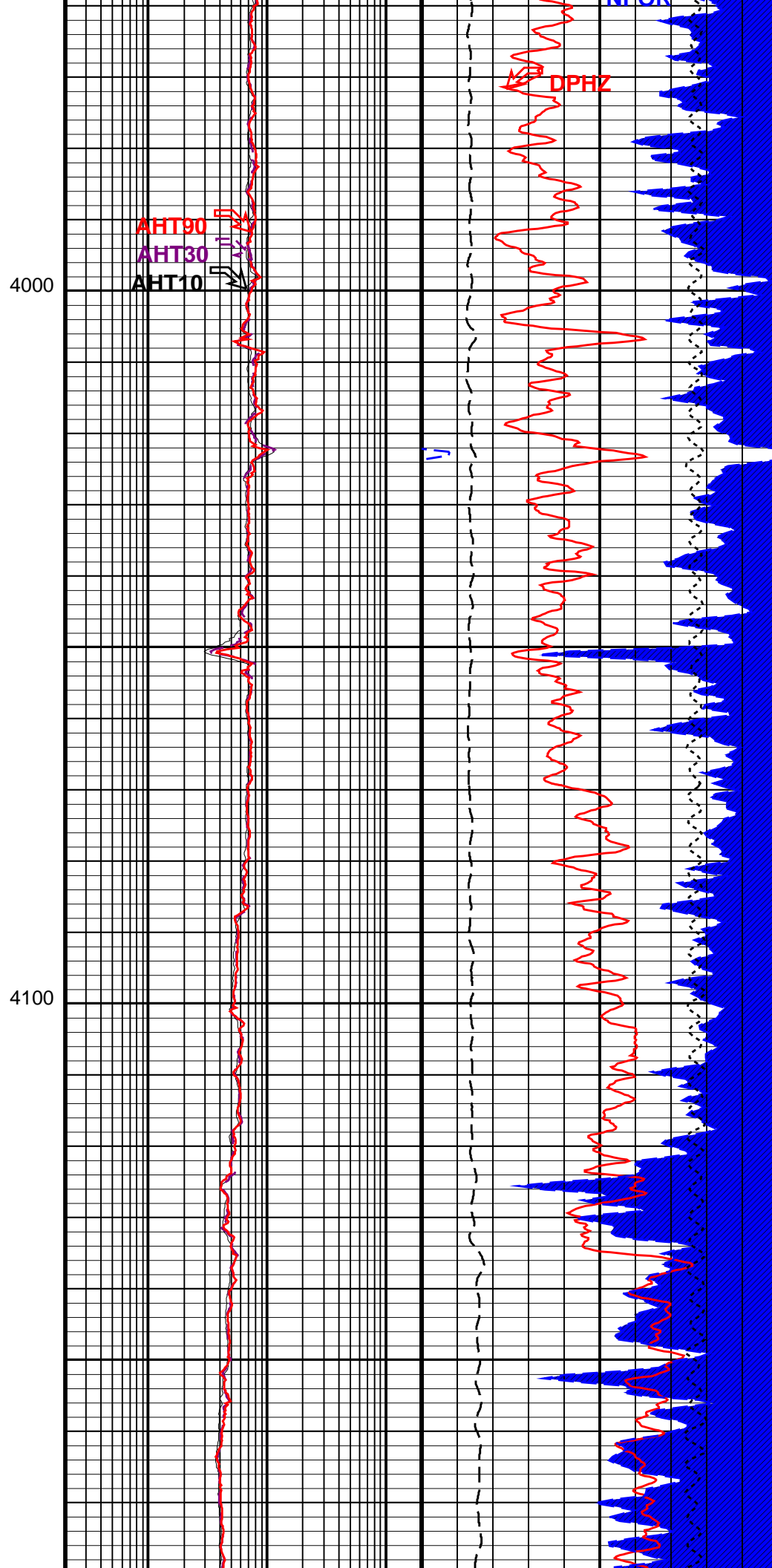
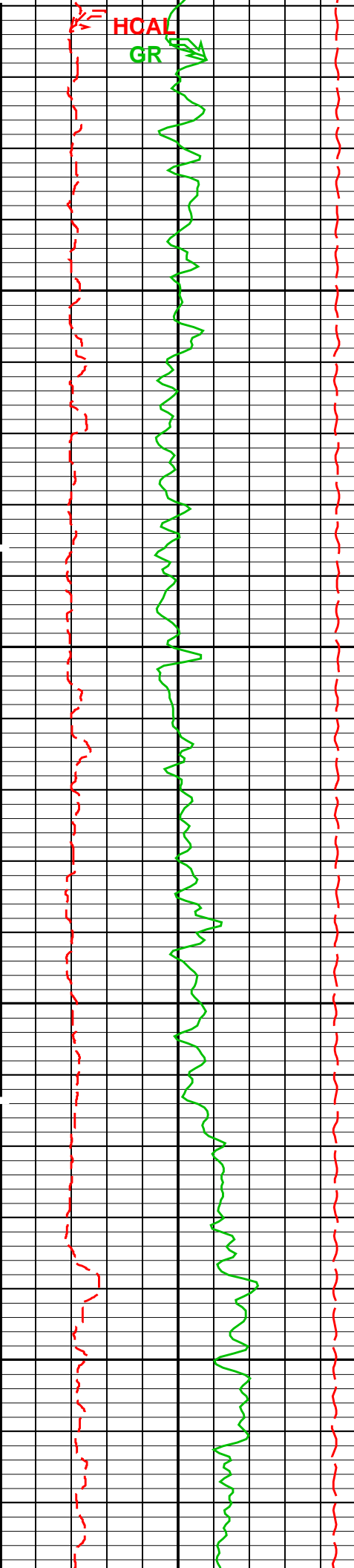


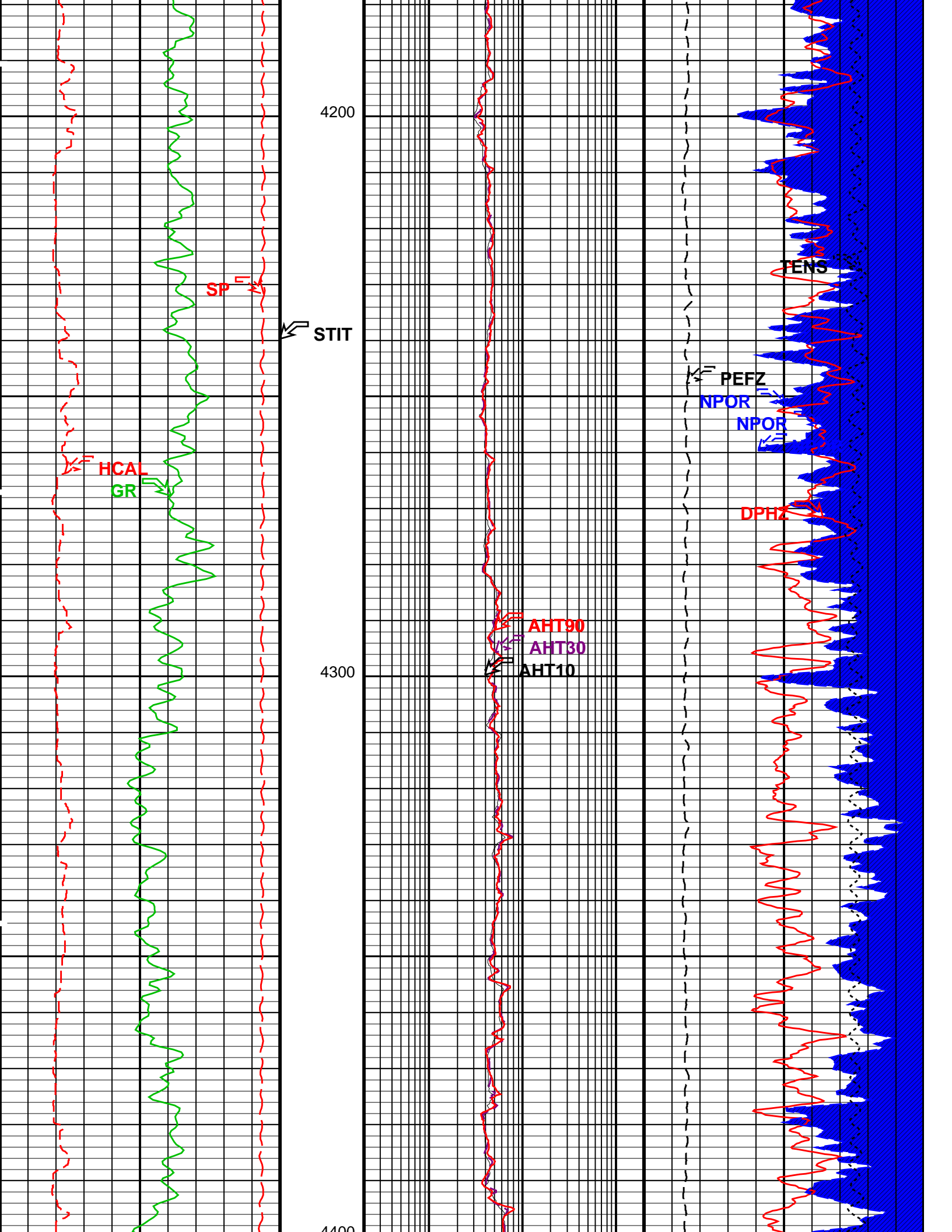


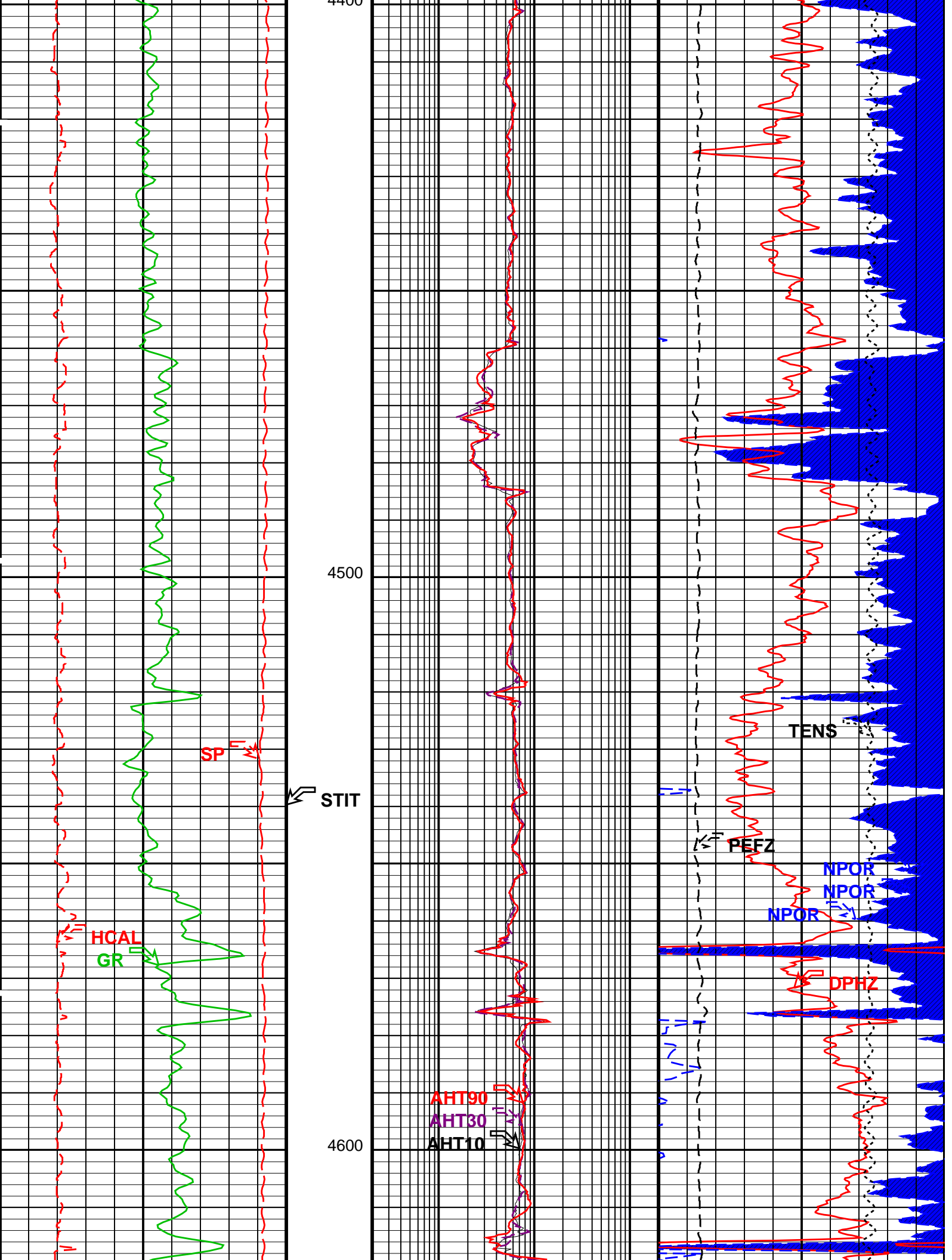




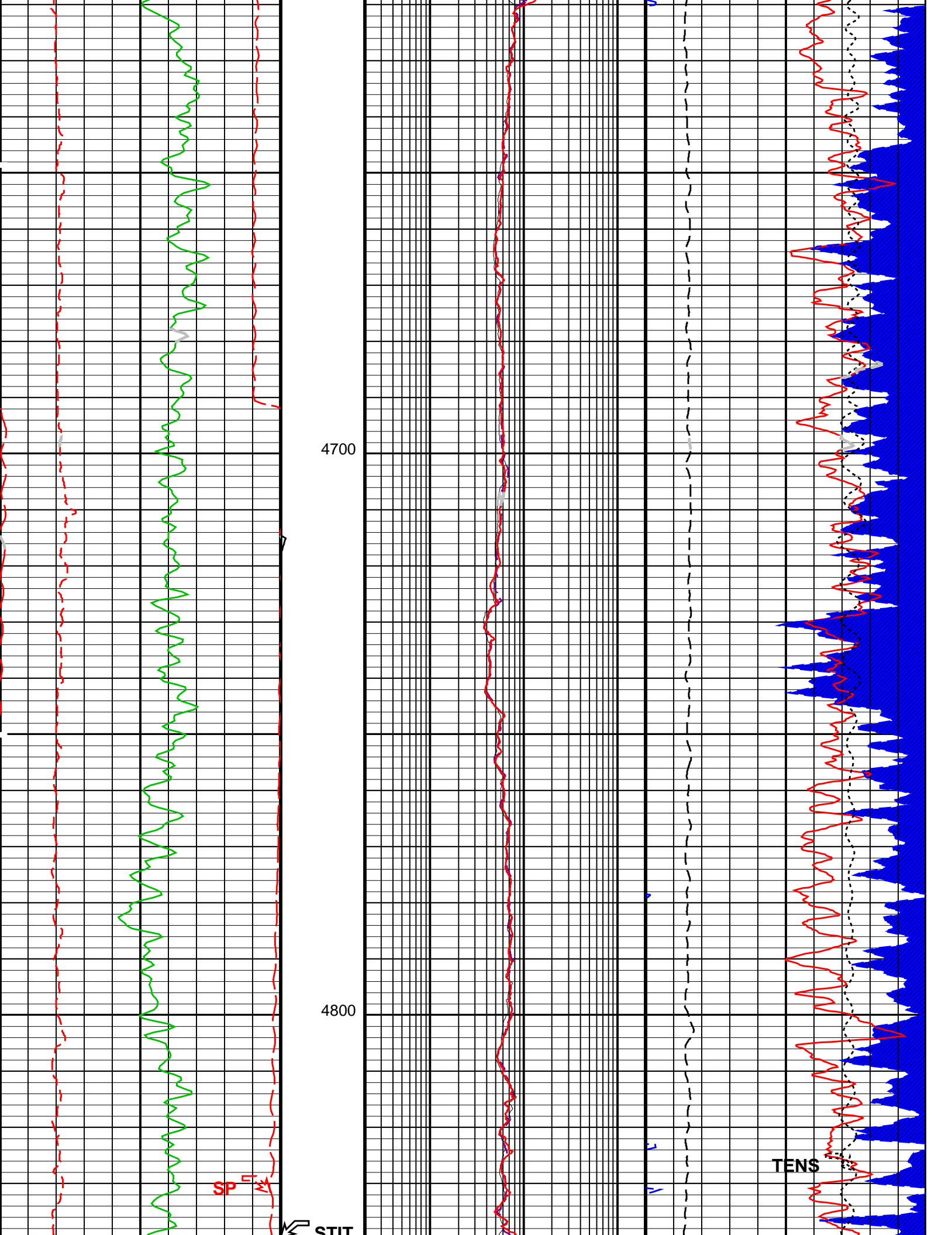


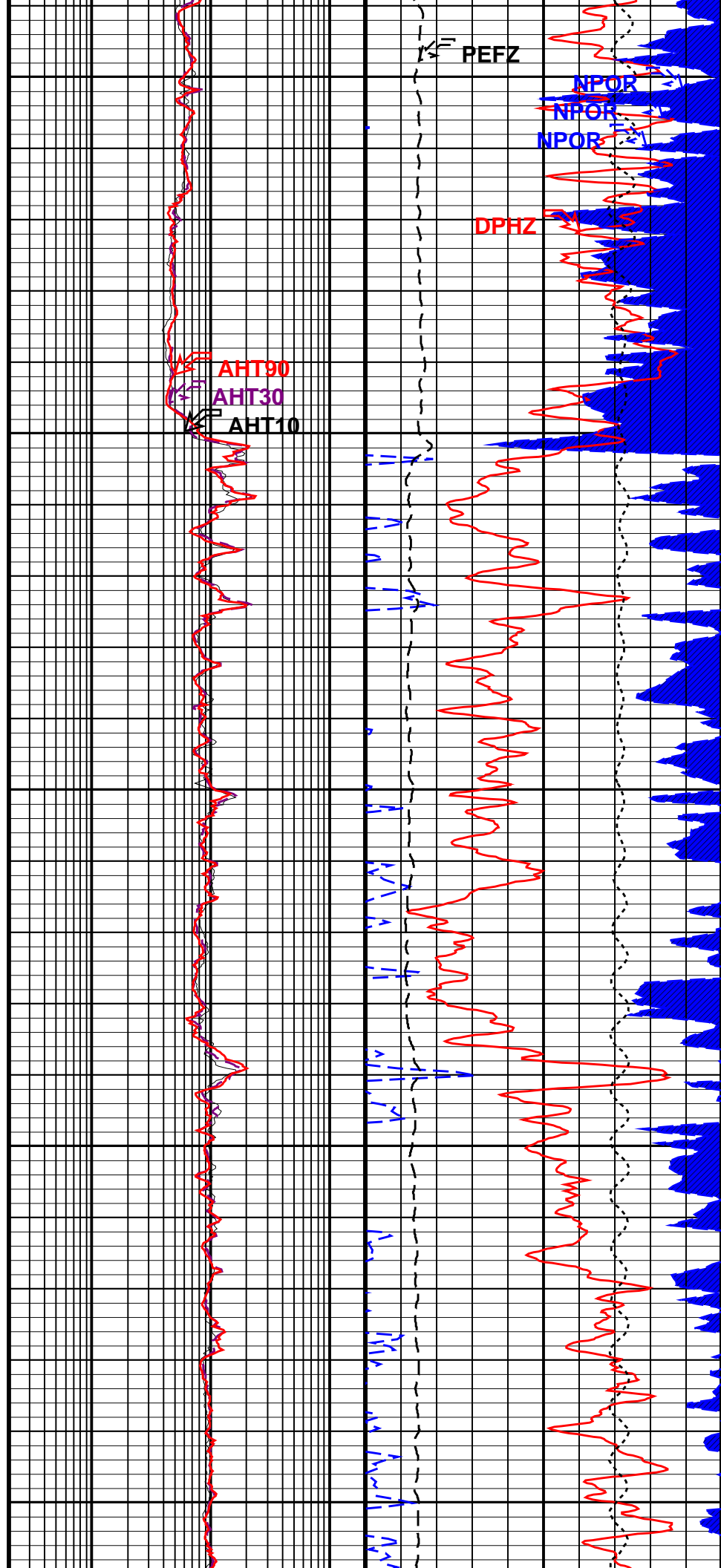
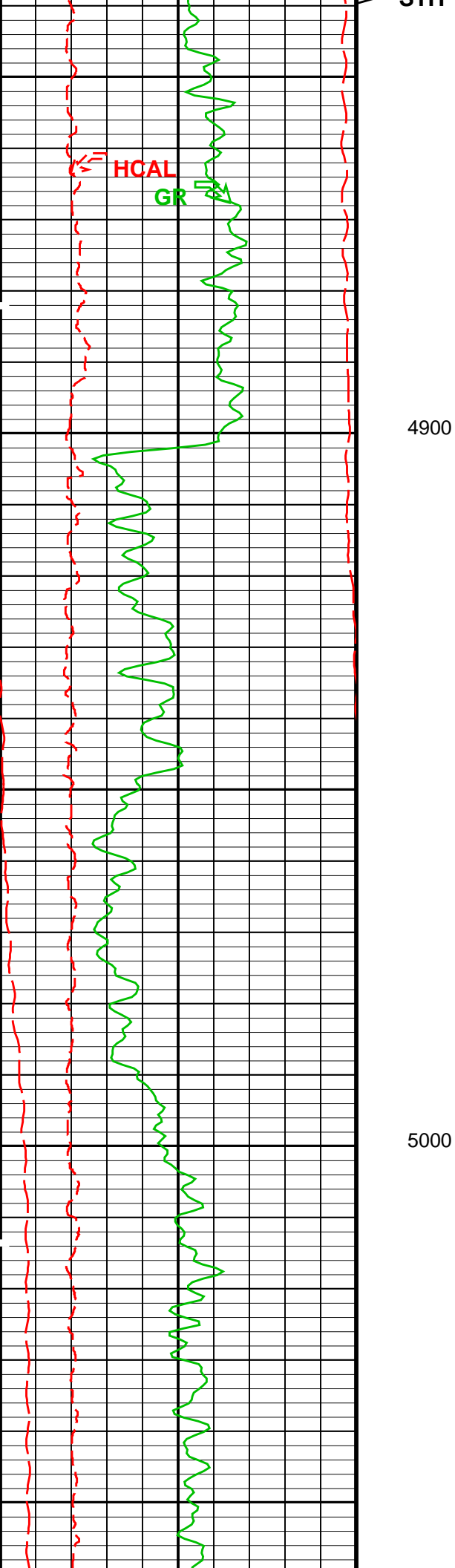


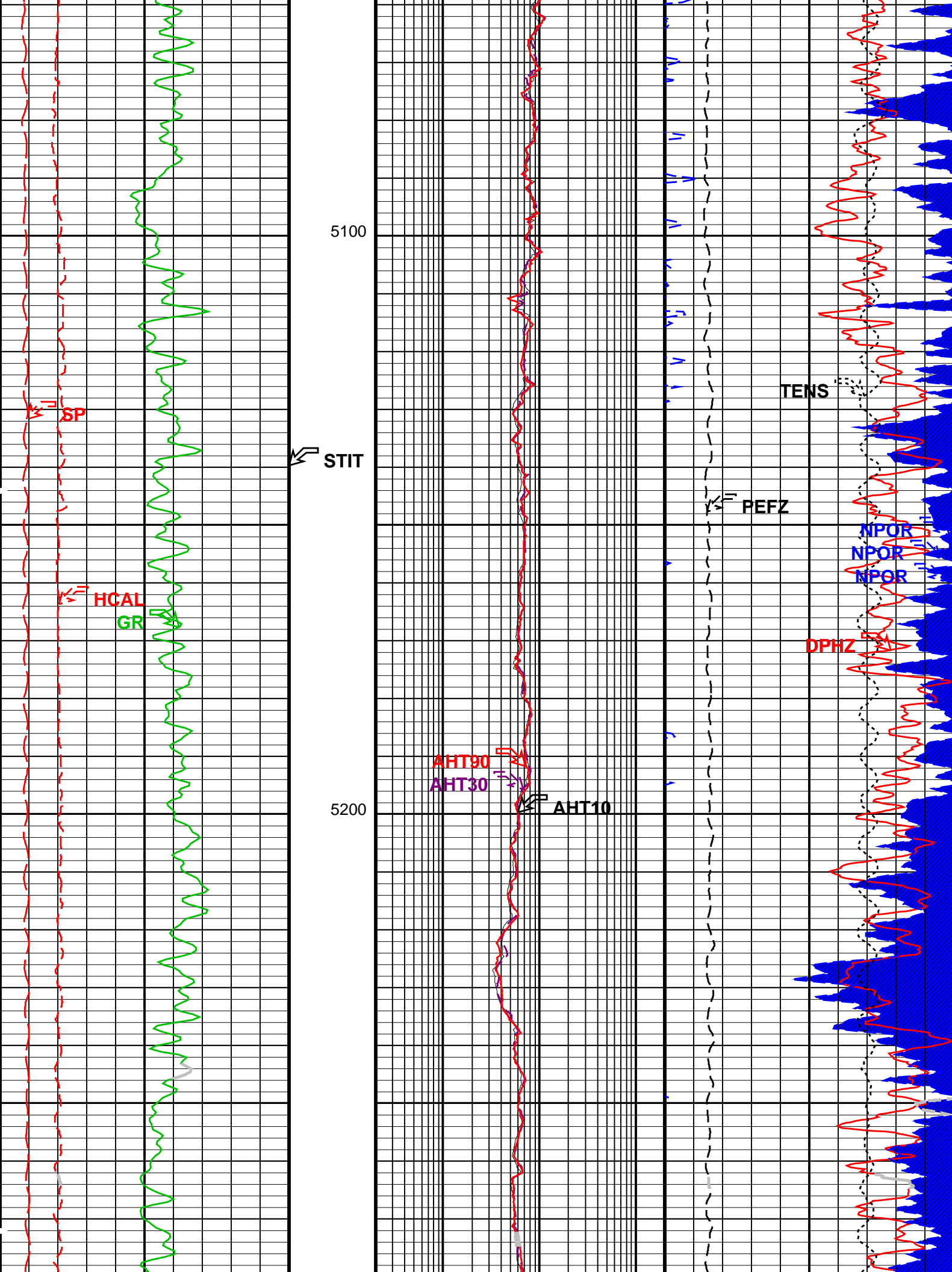


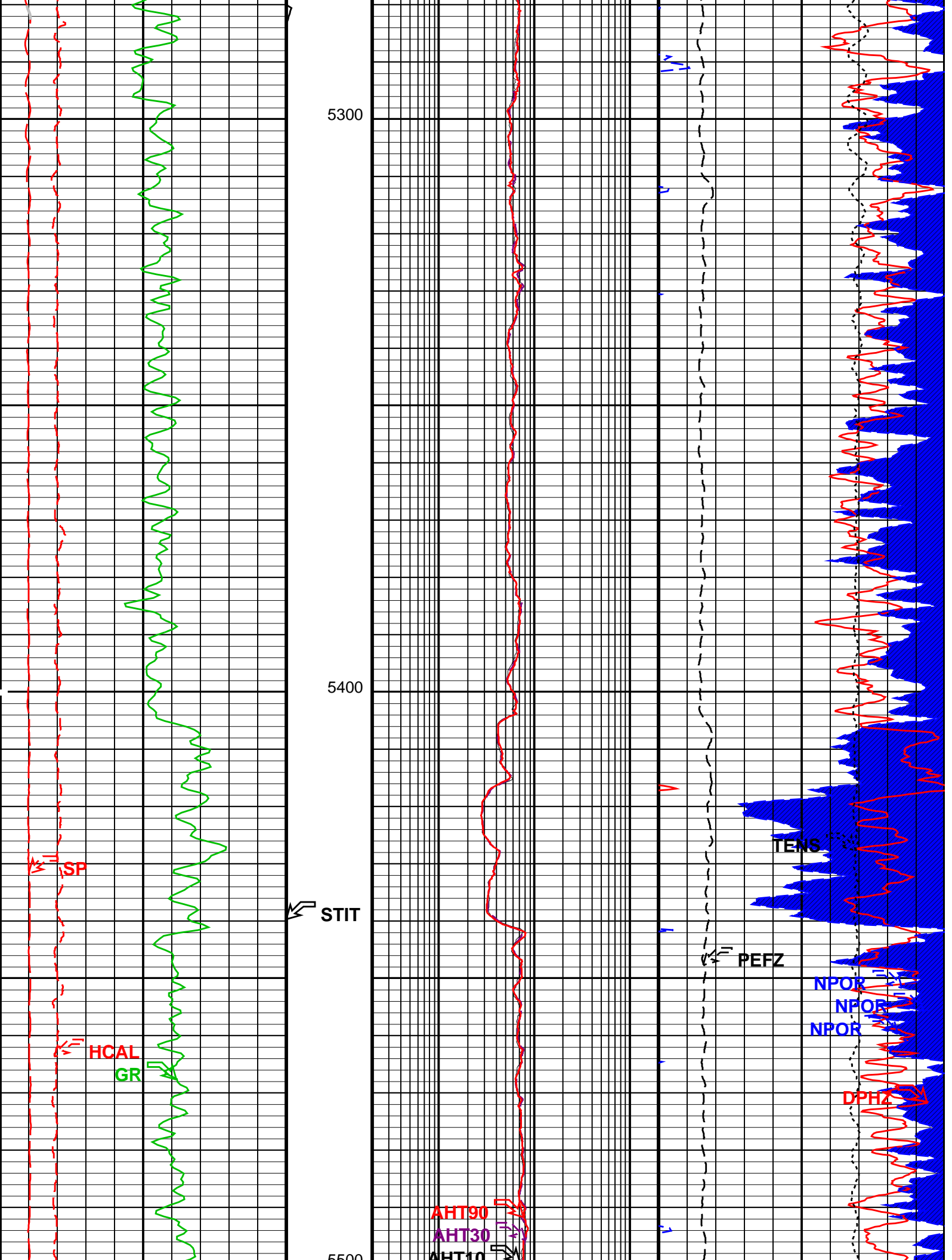


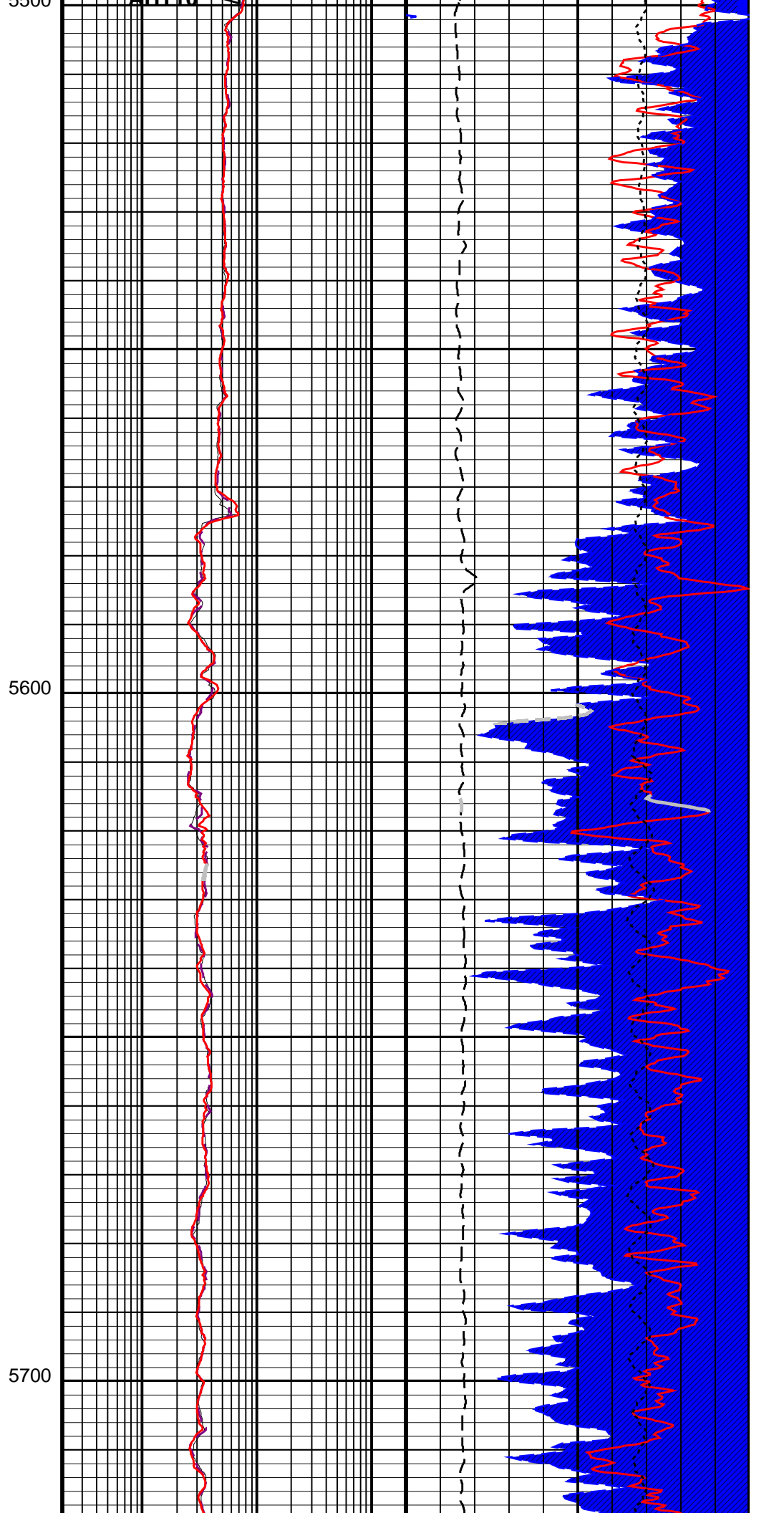
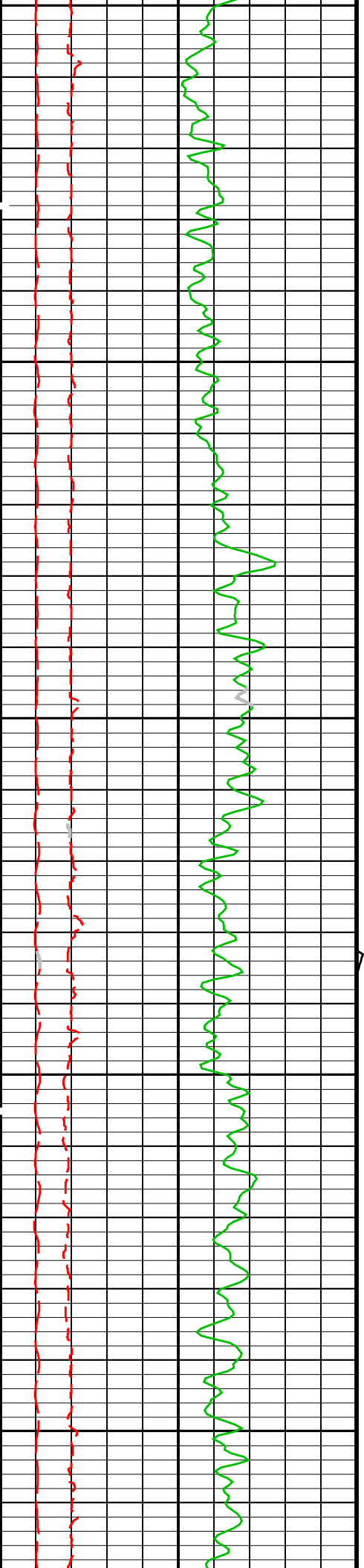


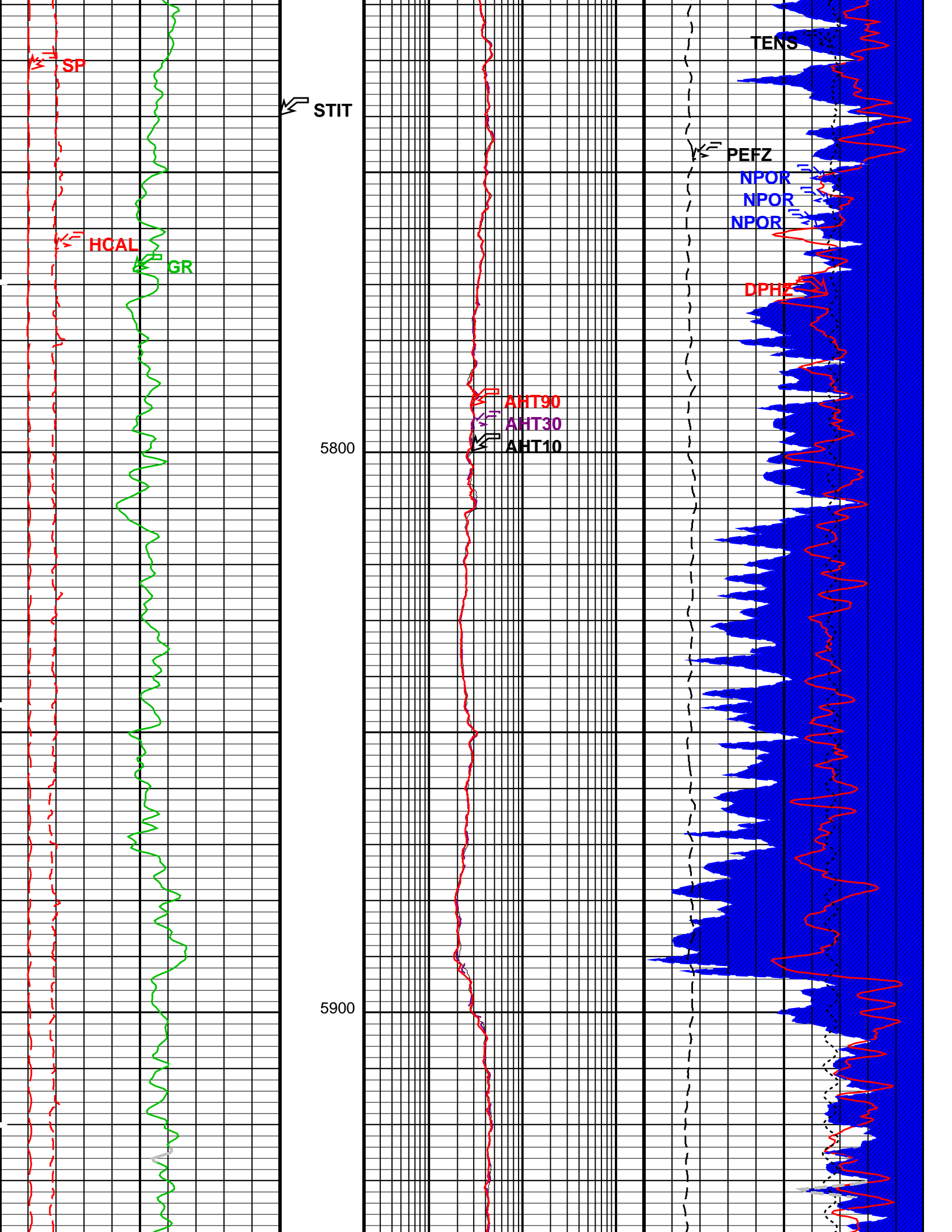




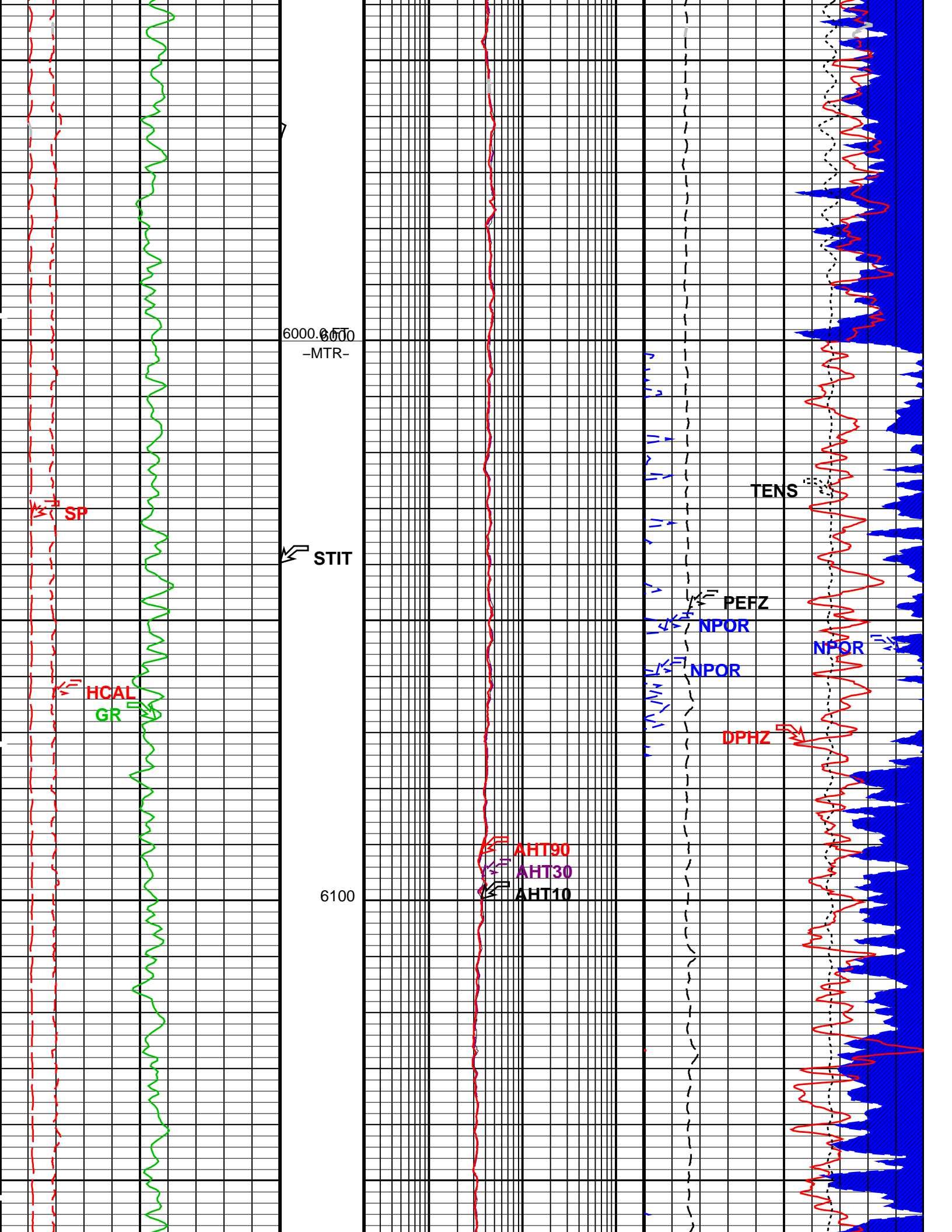


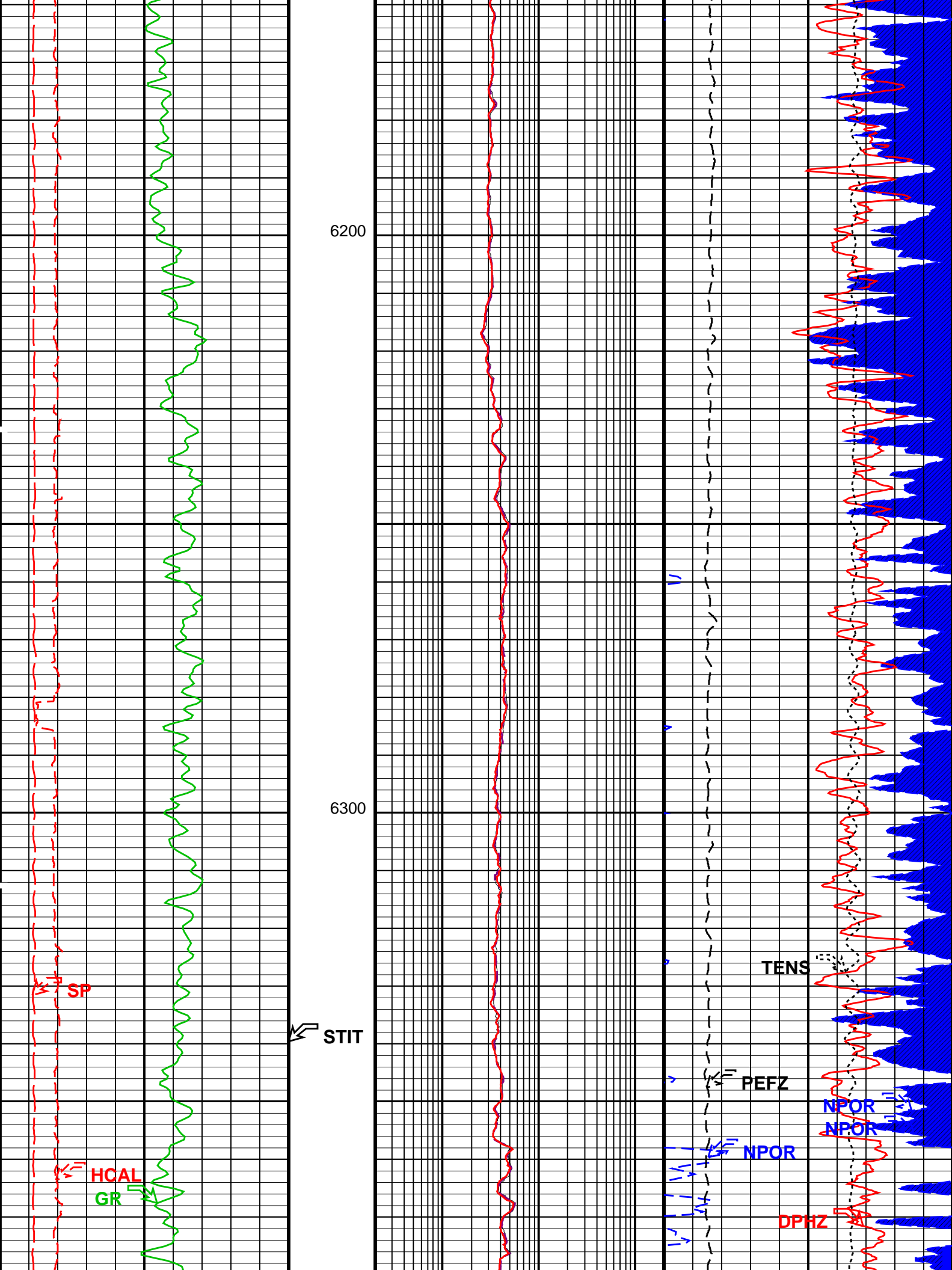




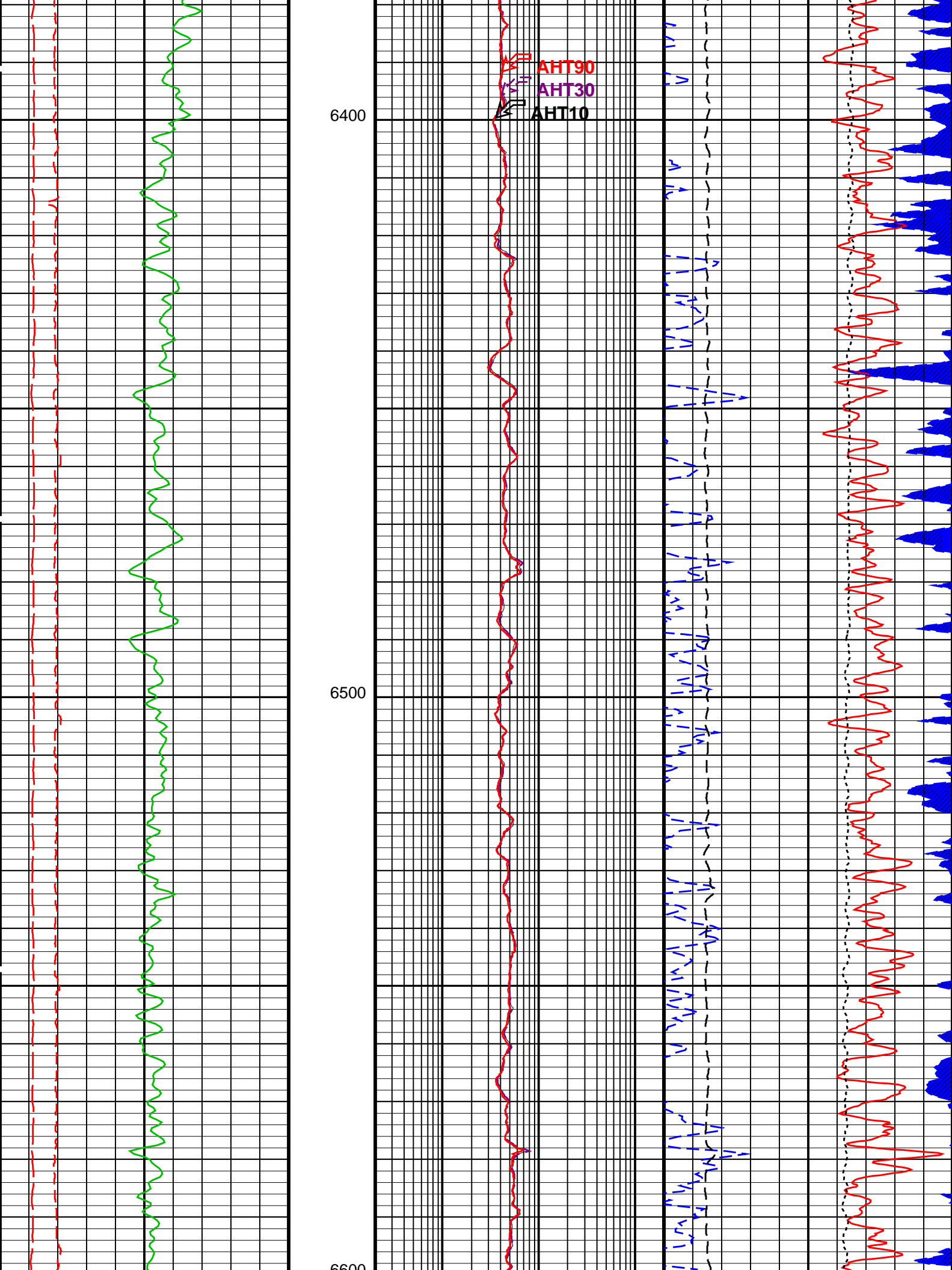


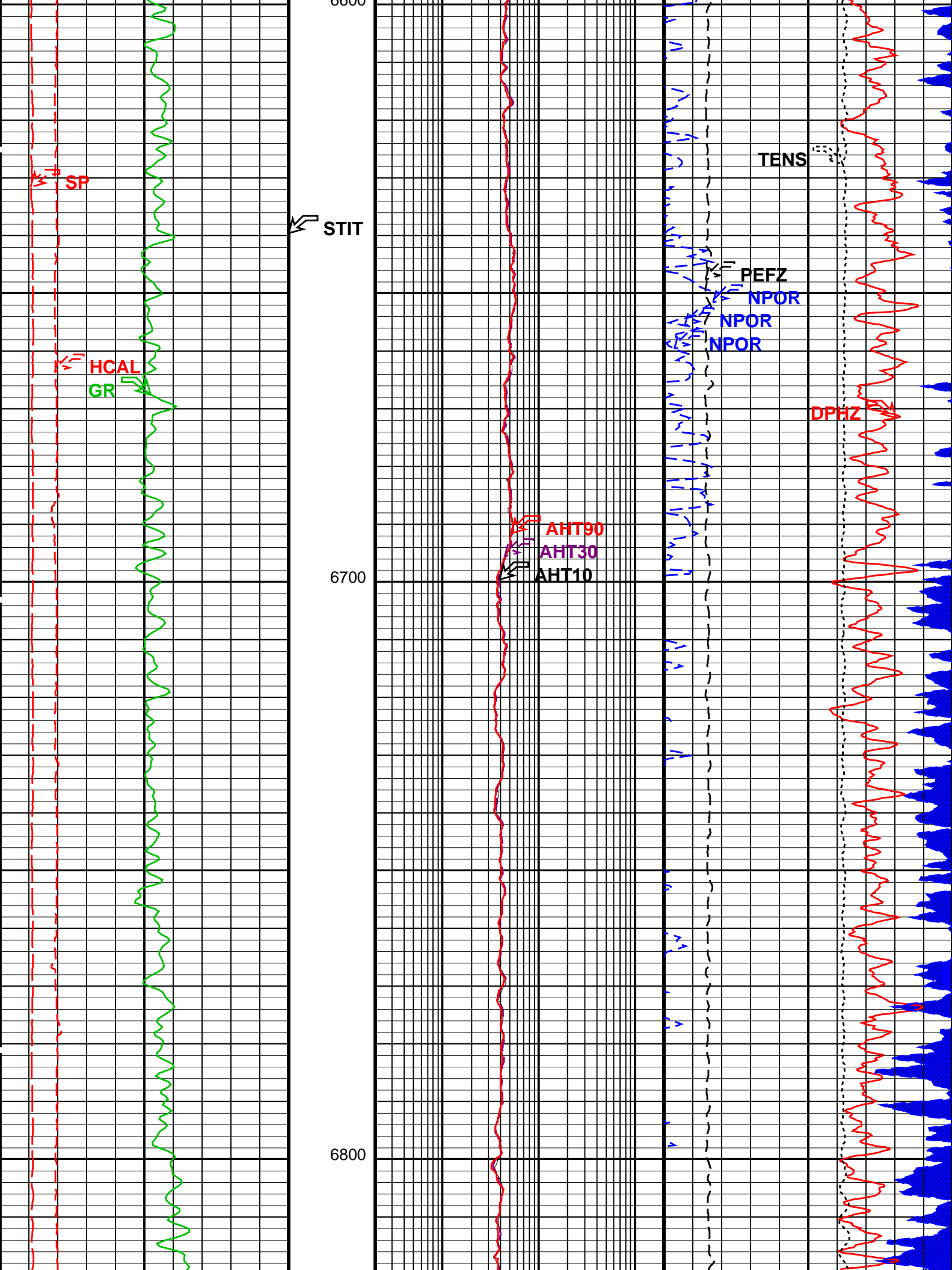


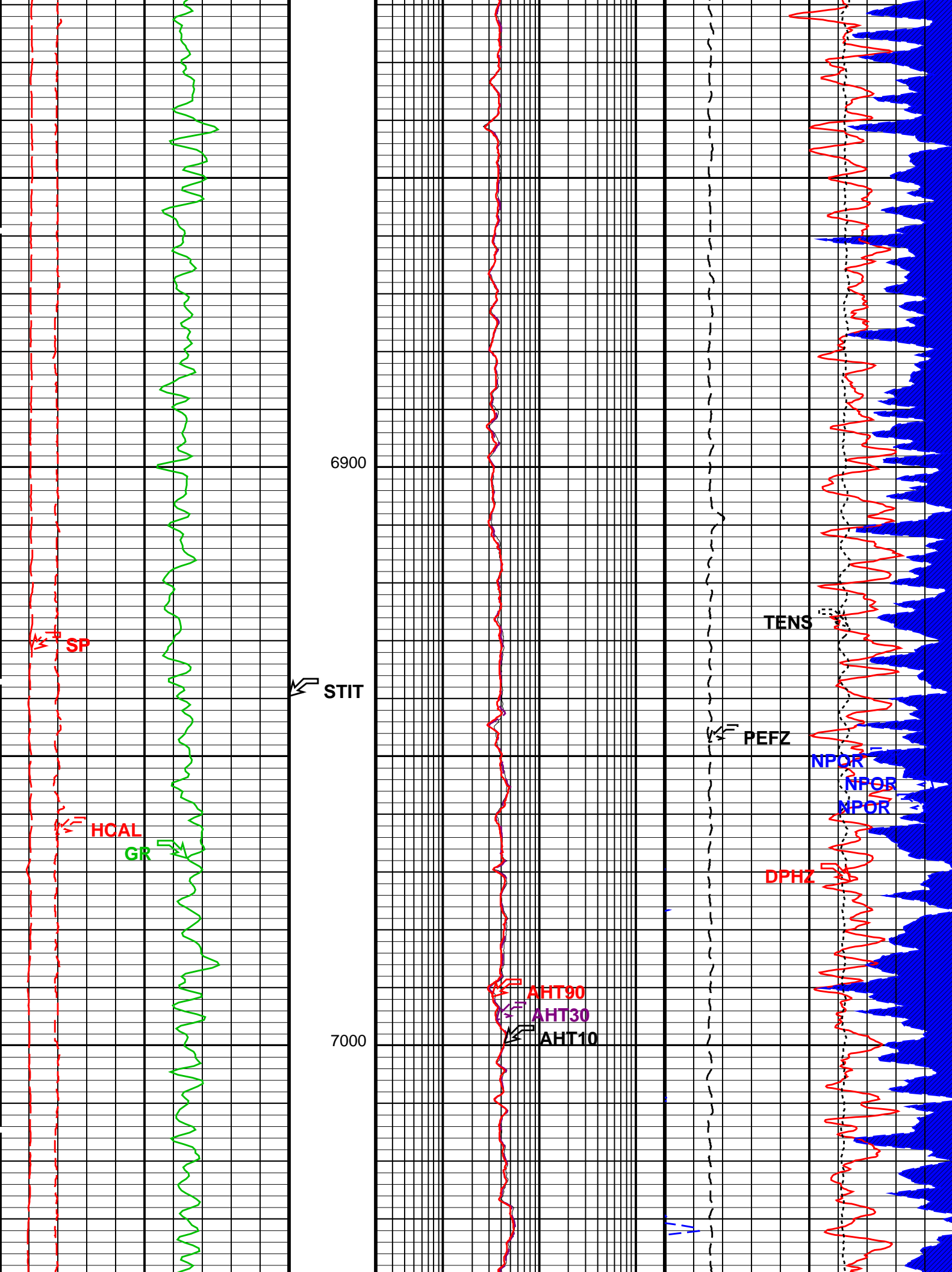


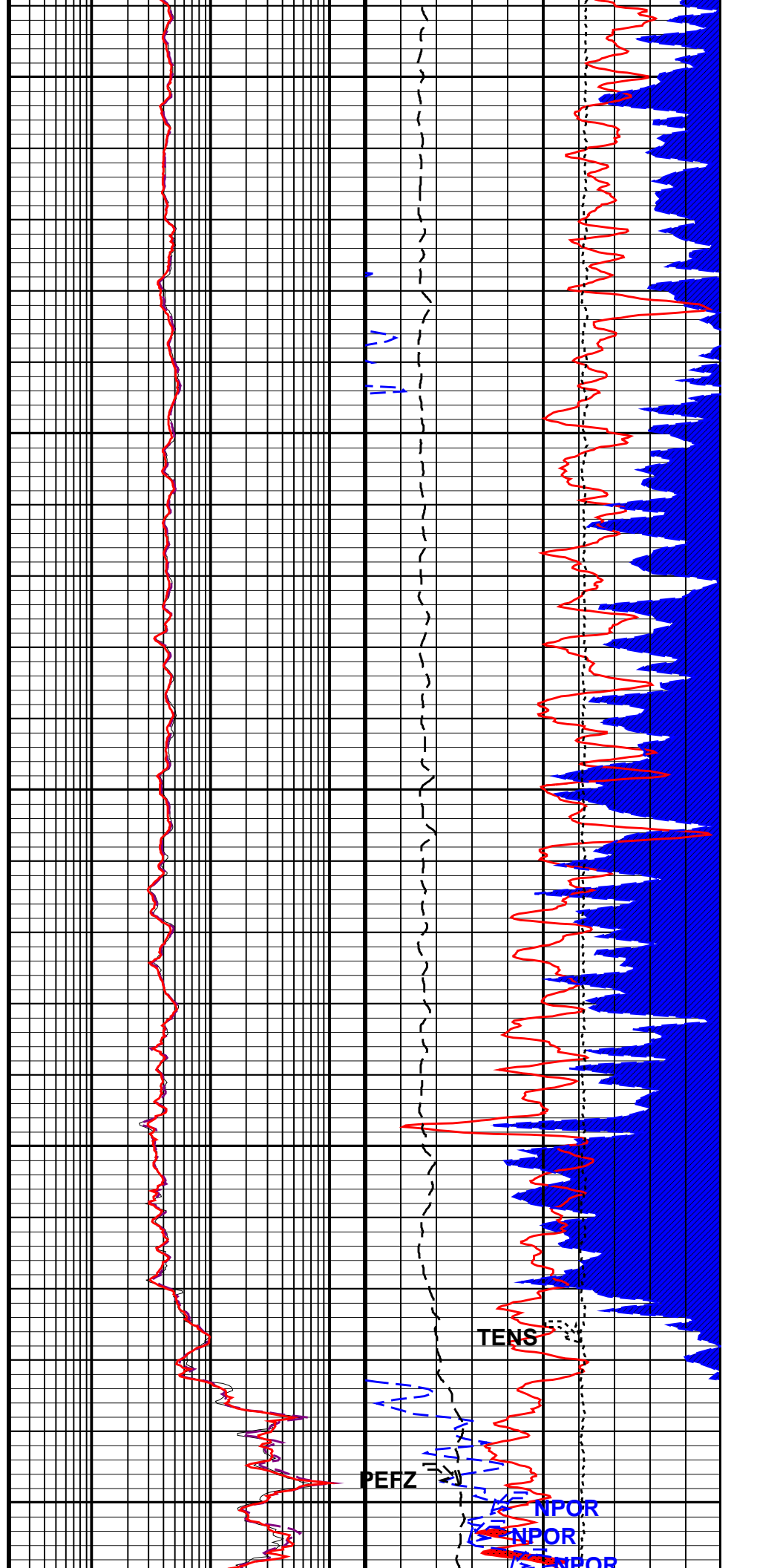
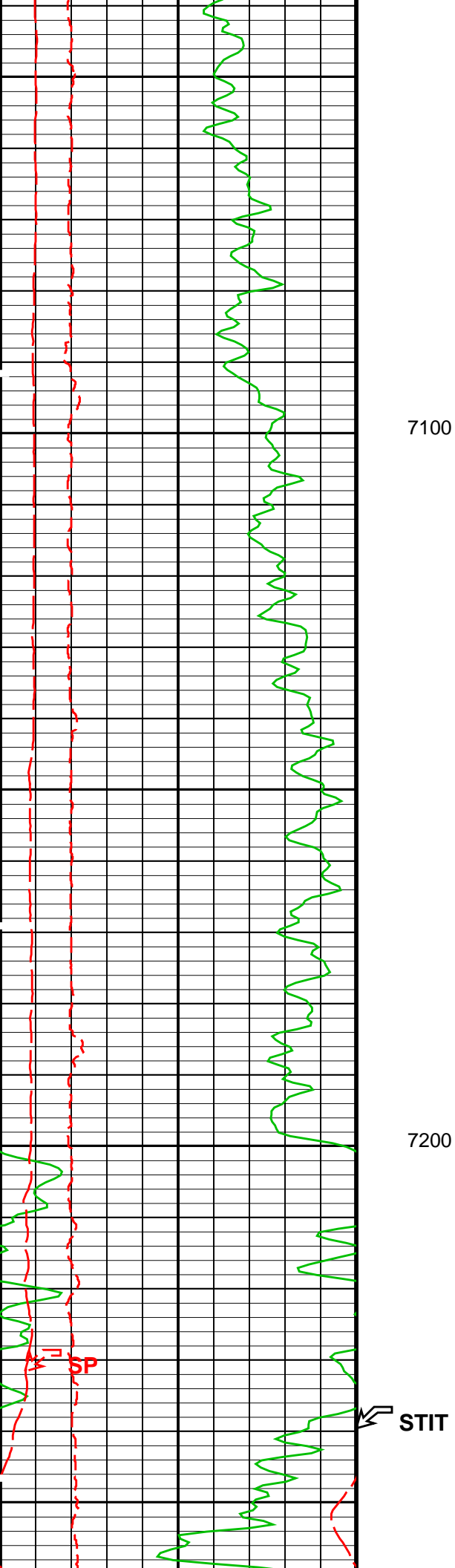


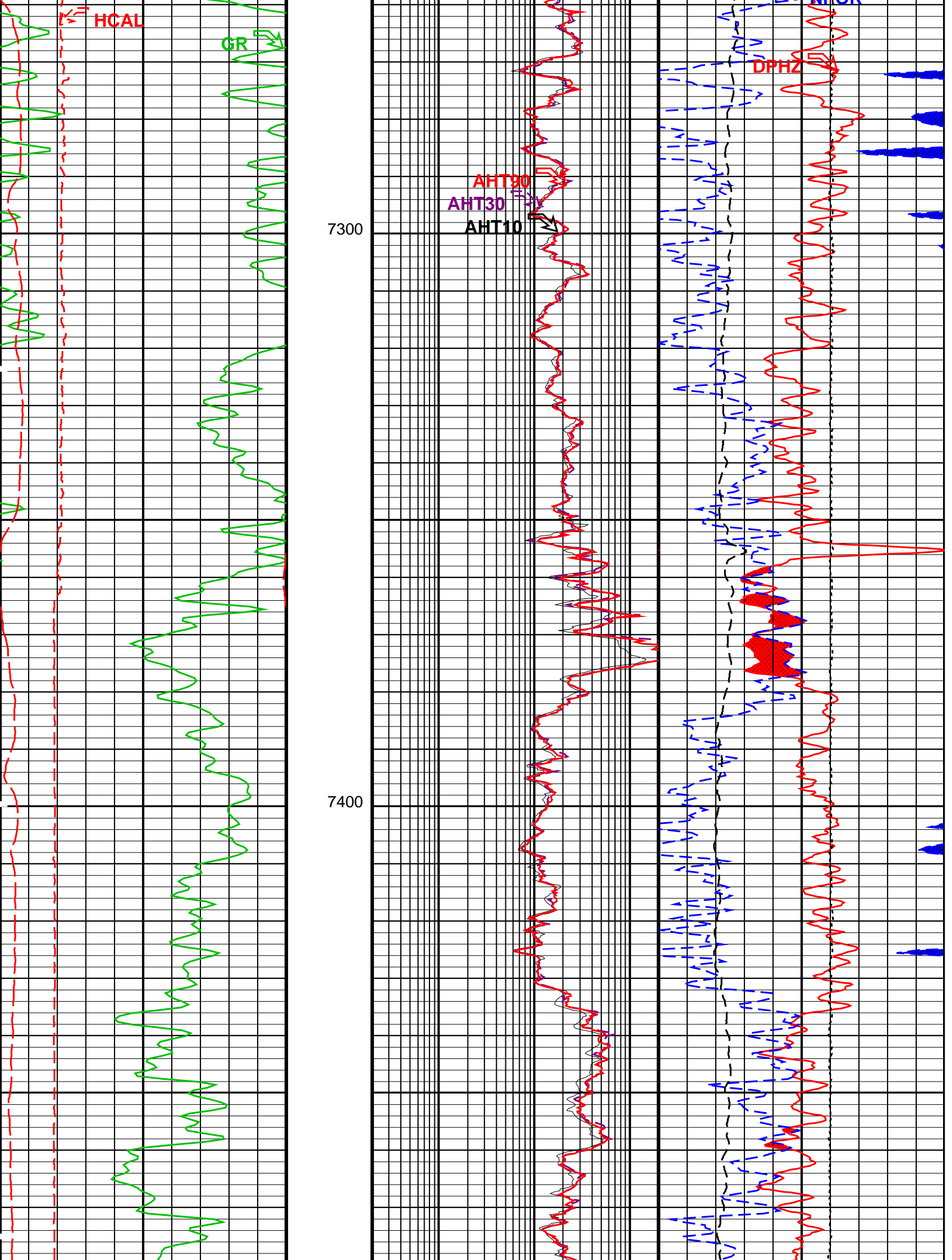


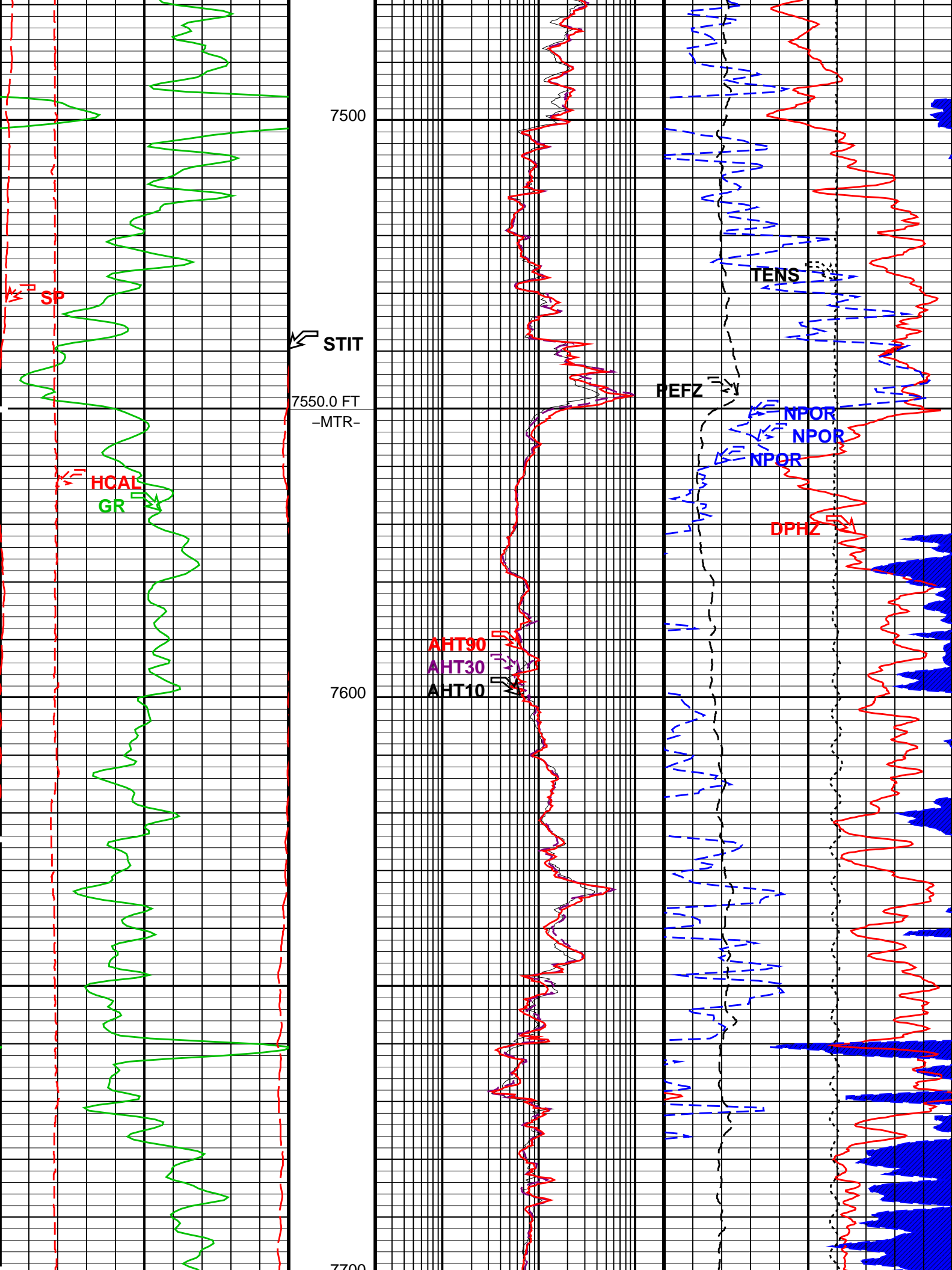


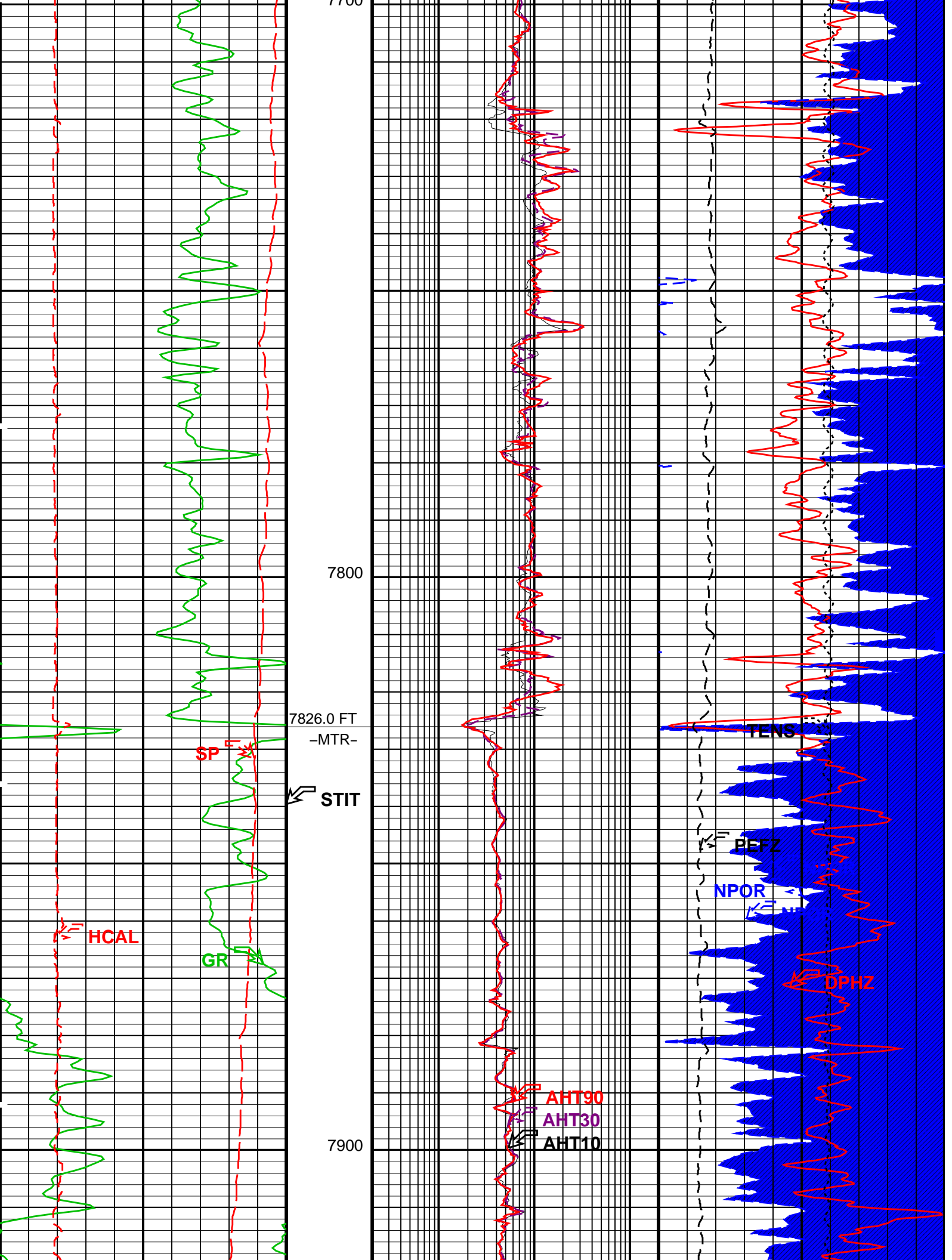




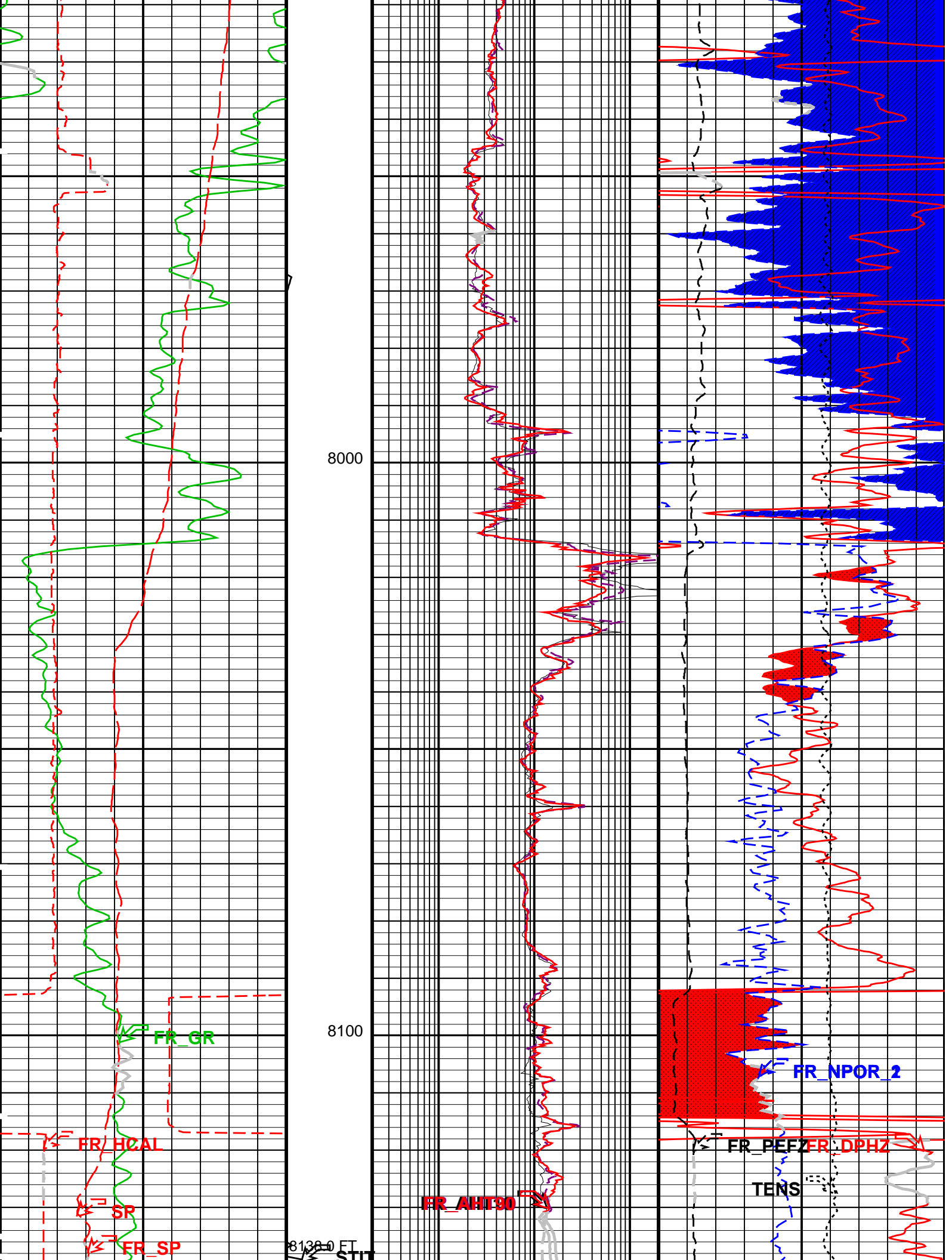
















|  |   |             |      |
|--|---|-------------|------|
| FSCO                                     | Formation Salinity Correction Option              | NO          |      |
| GCLF                                     | Germany Coal-like Formation Option                | NO          |      |
| GCSE                                     | Generalized Caliper Selection                     | HCAL        |      |
| GDEV                                     | Average Angular Deviation of Borehole from Normal | 0           | DEG  |
| GGRD                                     | Geothermal Gradient                               | 0.01        | DF/F |
| GRSE                                     | Generalized Mud Resistivity Selection             | AITH_RESIST |      |
| GTSE                                     | Generalized Temperature Selection                 | HSTS_HTEM   |      |
| HSCO                                     | Hole Size Correction Option                       | YES         |      |
| MATR                                     | Rock Matrix for Neutron Porosity Corrections      | SANDSTONE   |      |
| MCCO                                     | Mud Cake Correction Option                        | NO          |      |
| MCOR                                     | Mud Correction                                    | NATU        |      |
| MDEN                                     | Matrix Density                                    | 2.68        | G/C3 |
| MWCO                                     | Mud Weight Correction Option                      | NO          |      |
| NAAC                                     | HRDD APS Activation Correction                    | OFF         |      |
| NMT                                      | HILT Nuclear Mud Type                             | NOBARITE    |      |
| NPRM                                     | HRDD Processing Mode                              | StdRes      |      |
| NSAR                                     | HRDD Depth Sampling Rate                          | 1           | IN   |
| PTCO                                     | Pressure/Temperature Correction Option            | NO          |      |
| SDAT                                     | Standoff Data Source                              | SOCN        |      |
| SHT                                      | Surface Hole Temperature                          | 68          | DEGF |
| SOCN                                     | Standoff Distance                                 | 0.125       | IN   |
| SOCO                                     | Standoff Correction Option                        | YES         |      |
| SPNV                                     | SP Next Value                                     | 0           | MV   |
| FEQL: Formation Evaluation Quick Look    |   |             |      |
| FEXP                                     | Form Factor Exponent                              | 2           |      |
| FNUM                                     | Form Factor Numerator                             | 1           |      |
| HOLEV: Integrated Hole/Cement Volume     |   |             |      |
| BHS                                      | Borehole Status                                   | OPEN        |      |
| BHT                                      | Bottom Hole Temperature (used in calculations)    | 220         | DEGF |
| GCSE                                     | Generalized Caliper Selection                     | HCAL        |      |
| GDEV                                     | Average Angular Deviation of Borehole from Normal | 0           | DEG  |
| GGRD                                     | Geothermal Gradient                               | 0.01        | DF/F |
| GRSE                                     | Generalized Mud Resistivity Selection             | AITH_RESIST |      |
| GTSE                                     | Generalized Temperature Selection                 | HSTS_HTEM   |      |
| MATR                                     | Rock Matrix for Neutron Porosity Corrections      | SANDSTONE   |      |
| SHT                                      | Surface Hole Temperature                          | 68          | DEGF |
| PERT: Preliminary Evaluation – Real Time |   |             |      |
| BHS                                      | Borehole Status                                   | OPEN        |      |
| BHT                                      | Bottom Hole Temperature (used in calculations)    | 220         | DEGF |
| FEXP                                     | Form Factor Exponent                              | 2           |      |
| FNUM                                     | Form Factor Numerator                             | 1           |      |
| GCSE                                     | Generalized Caliper Selection                     | HCAL        |      |
| GDEV                                     | Average Angular Deviation of Borehole from Normal | 0           | DEG  |
| GGRD                                     | Geothermal Gradient                               | 0.01        | DF/F |
| GRSE                                     | Generalized Mud Resistivity Selection             | AITH_RESIST |      |
| GTSE                                     | Generalized Temperature Selection                 | HSTS_HTEM   |      |
| MATR                                     | Rock Matrix for Neutron Porosity Corrections      | SANDSTONE   |      |
| SHT                                      | Surface Hole Temperature                          | 68          | DEGF |
| STI: Stuck Tool Indicator                |   |             |      |
| LBFR                                     | Trigger for MAXIS First Reading Label             | TDL         |      |
| STKT                                     | STI Stuck Threshold                               | 2.5         | FT   |
| TDD                                      | Total Depth – Driller                             | 8177.00     | FT   |
| TDL                                      | Total Depth – Logger                              | 8138.00     | FT   |
| System and Miscellaneous                 |   |             |      |
| BS                                       | Bit Size  | 7.875       | IN   |
| BSAL                                     | Borehole Salinity                                 | -50000.00   | PPM  |
| CSIZ                                     | Current Casing Size                               | 8.625       | IN   |
| CWEI                                     | Casing Weight                                     | 24.00       | LB/F |
| DFD                                      | Drilling Fluid Density                            | 8.33        | LB/G |
| DO                                       | Depth Offset for Playback                         | 0.0         | FT   |
| DORL                                     | Depth Offset for Repeat Analysis                  | 0.0         | FT   |
| FLEV                                     | Fluid Level                                       | -50000.00   | FT   |
| PP                                       | Playback Processing                               | NORMAL      |      |
| TD                                       | Total Depth                                       | 8138        | FT   |

Format: COMBO    Vertical Scale: 5" per 100'    Graphics File Created: 28-Feb-2010 02:34

## OP System Version: 17C0-154

HILTB-CTS    17C0-154

### Input DLIS Files

HILTC .020    FN:19    28-Feb-2010 02:16    8201.0 FT    750.0 FT

### Output DLIS Files

DEFAULT    AIT\_TLD\_MCFL\_CNL\_024PUP    FN:24    PRODUCER    28-Feb-2010 02:34

Well: **Frank 3–5**  
Field: **Wattenberg**  
County: **Weld**  
State: **Colorado**

Platform Express  
Triple Combo