

| | | | | |
|--|-----|-------------|--|--|
| | | | | |
| | LWD | See Remarks | | |
| | MWD | V9.1C01 | | |

| | | | | | | | | | | |
|------------------------|----------|--------------|--|--|--|--|--|--|--|--|
| Run number | | 3 | | | | | | | | |
| Bit size | in. | 8.5 | | | | | | | | |
| Bit start depth | m | 2985.0 | | | | | | | | |
| Bit end depth | m | 4580.0 | | | | | | | | |
| Top interval logged | m | 2987.0 | | | | | | | | |
| Bottom interval logged | m | 4570.3 | | | | | | | | |
| Begin log: time | | 22:24 | | | | | | | | |
| Begin log: date | | 20-May-07 | | | | | | | | |
| End log: time | | 22:45 | | | | | | | | |
| End log: date | | 25-May-07 | | | | | | | | |
| Mud data | | | | | | | | | | |
| Depth | m | 4580.0 | | | | | | | | |
| Type | | Accolade SBM | | | | | | | | |
| Mud weight | ppg | 10.1 | | | | | | | | |
| Solids | % | 10.7 | | | | | | | | |
| Chlorides | mg/L | 48896 | | | | | | | | |
| Rm | ohm.m@°C | N/A | | | | | | | | |
| Rmf | ohm.m@°C | N/A | | | | | | | | |
| Rmc | ohm.m@°C | N/A | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------|-------------|-------------|---------|---------|-----------|--|--|--|--|--|--|
| Potassium | % | N/A | | | | | | | | | |
| Environmental data | | | | | | | | | | | |
| GR | | | | | | | | | | | |
| Mud weight | ppg | 10.1 | | | | | | | | | |
| Bit size | in. | 8.5 | | | | | | | | | |
| Resistivity | | | | | | | | | | | |
| Neutron porosity | | | | | | | | | | | |
| Hole Size | in. | 8.5 | | | | | | | | | |
| Mud weight | ppg | 10.1 | | | | | | | | | |
| Temperature | °C | 108.0 | | | | | | | | | |
| Mud salinity | ppk | 61.3 | | | | | | | | | |
| Formation salinity | | N/A | | | | | | | | | |
| Recording rate 1 | SEC | 5 (ADN) | | | | | | | | | |
| Recording rate 2 | SEC | 6 (ARC) | | | | | | | | | |
| Filtering GR | | 3 pts | | | | | | | | | |
| Filtering density | | 3 pts | | | | | | | | | |
| Filtering Neutron | | 3 pts | | | | | | | | | |
| Company representative | D.Bareswell | J.Bennett | | | | | | | | | |
| Schlumberger D&M Personnel | C.Skiba | M.Amarasena | A.Kohli | C.Soper | L.Muskett | | | | | | |

| | | |
|--|-------------------------------|-------------------------------|
| <p style="text-align: center;">DISCLAIMER</p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p> | | |
| OTHER SERVICES FOR RUN 3 Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations | OTHER SERVICES FOR RUN | OTHER SERVICES FOR RUN |
| REMARKS: RUN NUMBER 3 Depth is referenced to Driller's Depth. Gamma Ray is corrected for mud weight, tool size and bit size. Resistivity is borehole compensated and environmentally corrected. Neutron Porosity is corrected for the effects of borehole size (bit size), temperature mud salinity and mud hydrogen index, (a factor of mud weight, mud temperature and pressure). Neutron Porosity is calculated using a limestone matrix density of 2.71 g/cm3. Delta-T is borehole compensated. POOH upon reaching TD of FTA A10A. | REMARKS: RUN NUMBER | REMARKS: RUN NUMBER |

| | | |
|------------------------------|------------|------------|
| EQUIPMENT DESCRIPTION | | |
| RUN 3 | RUN | RUN |
| | | |

DOWNHOLE EQUIPMENT

6-3/4" adnVISION* Neutron F 35.62 37.34
DHS: V8.3 Neutron N 35.46
Blade OD: 8-1/4" Density S 34.51
S/N: 373 Density L 34.42
UltraSonic 34.03
R-O Port 33.27



6-3/4" sonicVISION* 31.25
DHS: V6.6B04
S/N: 42256
Delta-T 27.91
R-O port 27.52



8-3/8" ILS 23.68
S/N: OSS061160



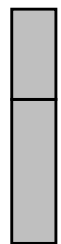
6-3/4" TeleScope* 22.85
MDC: FA28
PMEC: AB-373
MDI: CA-1565
MVC: 282
D&I 18.50
MVC 17.75



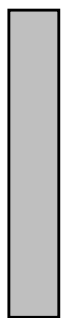
8-3/8" ILS 14.84
S/N: OSS070113
T5 11.51
T3 11.41
11.11



6-3/4" arcVISION* 13.84
DHS: V9.3B13 T1 10.80
S/N: FY68 Gamma Ray 10.45
Receiver 10.40
T2 10.14
T4 9.84
ARC APRS 9.68



6-3/4" PowerDrive Xceed* 7.92
S/N: CRSC-111



8-1/2" Reed-Hycalog PDC Bit 0.00 0.26
S/N: 2144575



Maximum string diameter 8-1/2 in.
All lengths in Metres

| Variable Name | Variable Description | Run Name & Value |
|---------------------|--|------------------|
| Run Number | | 3 |
| General Information | | |
| BHT_RM | Bottom Hole Temperature (RM) | 108.000000 |
| BSAL_RM | Mud Salinity (RM) | 18.051043 |
| BS_RM | Bit Size (RM) | 8.500000 |
| COEF_M | User Defined FEXP in Clean Sand | 1.650000 |
| C_WS | Overpressure correction to Sw and M | 1.000000 |
| FEXP | Formation Factor Exponent (RM) | 2.000000 |
| FNUM | Formation Factor Enumerator (RM) | 1.000000 |
| FPHI_RM | Formation Factor Porosity Source (RM) | XPLOT |
| MST_RM | Mud Sample temperature (RM) | 20.000000 |
| MW_RM | Mud Weight (RM) | 10.150000 |
| OBMF_RM | Oil Based Mud (RM) | YES |
| RHOF_RM | Mud Filtrate Density (RM) | 1.000000 |
| RHOM_RM | Matrix density (RM) | 2.710000 |
| RMS_RM | Resistivity of Mud Sample (RM) | 1000.000000 |
| RWA_COMP_M | Rwa computation model | BASIC |
| RWA_DEN_AD | Rwa Density Input ADN | RHOB |
| RWA_DEN_CD | Rwa Density Input CDN | RHOB |
| RWA_DEN_IN | Rwa Density Input | RHOB |
| RWA_FORM_M | Rwa computation formation model | CLASTIC |
| RWA_RES_IN | Rwa computation resistivity input | P34H |
| RWS_RM | Resistivity of Connate Water (RM) | 1.000000 |
| SHT_RM | Surface Hole Temperature (RM) | |
| TD_RM | Total Measured Depth (RM) | 4580.000000 |
| TWS_RM | Temperature of Connate Water (RM) | 75.000000 |
| VF_ILLI | Fraction of illite in shales | 0.500000 |
| VF_KAOL | Fraction of kaolinite in shales | 0.500000 |
| VF_MONT | Fraction of montmorillonite in shales | 0.000000 |
| XPDM_RM | Cross plot density porosity multiplier | 0.675000 |
| XPNM_RM | Cross plot neutron porosity multiplier | 0.325000 |
| ARC | | |
| LWD_RM/STATION | FILE/PARAMETER Station Time-frame file name | Station |
| A12A | ARC Air Cal Attenuation From T1 at 2 MHz | 9.000460 |
| A14A | ARC Air Cal Attenuation From T1 at 400 KHz | 8.989840 |
| A22A | ARC Air Cal Attenuation From T2 at 2 MHz | 5.945480 |
| A24A | ARC Air Cal Attenuation From T2 at 400 KHz | 5.961420 |
| A32A | ARC Air Cal Attenuation From T3 at 2 MHz | 5.634610 |
| A34A | ARC Air Cal Attenuation From T3 at 400 KHz | 5.614270 |
| A42A | ARC Air Cal Attenuation From T4 at 2 MHz | 3.857180 |
| A44A | ARC Air Cal Attenuation From T4 at 400 KHz | 3.867080 |
| A52A | ARC Air Cal Attenuation From T5 at 2 MHz | 4.191150 |
| A54A | ARC Air Cal Attenuation From T5 at 400 KHz | 4.181250 |
| ABNT | Abnormal Transmitter Indicator | No_Tx_Failed |
| ADHS | ARC Down Hole Software Version | No_Tx_Failed |
| ANISO_COMP | Anisotropy Computation Option | YES |
| APICG | ARC5 Gamma Ray Gain Factor | 1.050190 |
| APIG | ARC Gamma Ray API Gain Factor | -1.000000 |
| ATMP_ARC | ARC Select Temperature Channel | Annulus_Temp |
| ATRN | ARC Tool Run Number | 5 |
| ATSN | ARC Tool Serial Number | Annulus_Temp |
| AZMF | Formation DIP Azimuth | 0.000000 |
| BH_COMPUTE | Borehole Inversion Computation Option | YES |
| CALG | ARC Gamma Ray Cal Gain Factor | 1.050190 |
| CALI_SLCT | ARC Caliper Selection | BITSIZE |
| CDPTH_ARC | Process Start Depth | 100.000000 |
| DIELEC_COM | Dielectric Computation Option | YES |
| DIPF | Formation DIP Angle | 0.000000 |
| ERRCT | Percentage Error Cutoff | 4.500000 |
| GRSH | GR Shale (Invasion Computation Cutoff) | 1000.000000 |
| HIGH_BLEND | High Resistivity Threshold for Blending | 2.000000 |
| INCLIN_B0 | ARC Bias Constant (mg) | 0.000000 |
| INCLIN_B1 | ARC Bias First-order Coefficient (mg/degC) | 0.000000 |
| INCLIN_B2 | ARC Bias Secod-order Coeeficient (mg/degC) | 0.000000 |
| INCLIN_B3 | ARC Bias Third-order Coeeficient (mg/degC) | 0.000000 |
| INCLIN_C0 | ARC Current Scale Factor Constant (mA/g) | 1.000000 |
| INCLIN_C1 | ARC Scale First-order Coeeficient (mA/g/degC) | 0.000000 |
| INCLIN_C2 | ARC Scale Second-order Coeeficient (mA/g/degC) | 0.000000 |
| INCLIN_C3 | ARC Scale Third-order Coeeficient (mA/g/degC) | 0.000000 |
| INVAS_COMP | Invasion Computation Option | YES |
| JSD_ARC | ARC Acquisition start date | YES |
| KPER | Potassium Concentration (RM) | 0.000000 |
| LOW_BLEND | Low Resistivity Threshold for Blending | 1.000000 |
| MSWS | ARC Wizard Model Switch Window | 5.000000 |
| MULTIEFFEC | Multi Effect Option | YES |
| P12A | ARC Air Cal Phase-Shift From T1 at 2 MHz | 0.901520 |
| P14A | ARC Air Cal Phase-Shift From T1 at 400 KHz | -0.312112 |
| P22A | ARC Air Cal Phase-Shift From T2 at 2 MHz | -0.847696 |
| P24A | ARC Air Cal Phase-Shift From T2 at 400 KHz | 0.306136 |
| P32A | ARC Air Cal Phase-Shift From T3 at 2 MHz | 0.818240 |
| P34A | ARC Air Cal Phase-Shift From T3 at 400 KHz | -0.298400 |
| P42A | ARC Air Cal Phase-Shift From T4 at 2 MHz | -0.891928 |
| P44A | ARC Air Cal Phase-Shift From T4 at 400 KHz | 0.290408 |
| P52A | ARC Air Cal Phase-Shift From T5 at 2 MHz | 0.800528 |
| P54A | ARC Air Cal Phase-Shift From T5 at 400 KHz | -0.316928 |
| POFFSET_AR | ARC: Pressure Offset | 0.000000 |
| PRTD | Preferred Resistivity Log for Rt Display while Multi-Effects | P34B |
| PSOF_ADJ T | ARC: User Input Phase offset | 0.000000 |

| | | |
|------------|---|------------|
| RESTIK | ARC resistivity tick source | Phase |
| SHIG | ARC High Shock Risk Level | 0.500000 |
| SHT_RM | Ground Level Temperature (Mud-Line When Offshore) (RM) | 50.000000 |
| SMED | ARC Medium Shock Risk Level | 0.330000 |
| SMIN | ARC Minimum Shock Risk Level | 0.160000 |
| SUPD | ARC Real Time Shock Update Rate | 30.000000 |
| TCODE_ARC | ARC Tool File Code | 30.000000 |
| TSIZ_ARC | ARC Tool Size | 6.750000 |
| UNIFORM_CO | Uniform Rock Option | YES |
| VERS_ARC | ARC Down hole software version Number | 9.300000 |
| WRK | Way to Report Potassium Concentration (RM) | K_by_Wgt_% |

ISONIC

| | | |
|---------|--------------------------------------|-------------|
| FP_SD | First Sample delay | 400.00 |
| STC_CF | Center frequency of Filter | 13.00 |
| STC_BW | Bandwidth (kHz) | Default |
| STC_RWI | Receiver waveform ignored | None |
| PM_TOFF | Tool Time offset from surface system | 0.00 |
| DT_COH | Delta-T Coherence Cutoff Value | 0.70 |
| PPC_PF | Porosity Formula | Raymer-Hunt |
| PPC_PS | Sonic Porosity Source | DTRA |
| PPC_MDT | Matrix Delta-T | 55.50 |
| PPC_FDT | Fluid Delta-T | 189.00 |

ADN

| | | |
|------------|--|------------|
| ADN_CHASSI | ADN Chassis Type String | ADN |
| ADN_COLLAR | ADN Collar Type String | ADN |
| ADN_STAB_S | ADN Stabilizer Type String | ADN |
| ALPHA_COMP | Perform Density Enhanced Vertical Resolution process ? | NO |
| ALPHA_COMP | Perform Neutron Enhanced Vertical Resolution process ? | NO |
| AVE_ADN | ADN/Array Channels: perform averaging(RM) : | YES |
| A_DHS | ADN Down Hole Software Version String | YES |
| CHI_RM | Caliper High limit from BS (RM) | 3.000000 |
| CLO_RM | Caliper Low limit from BS (RM) | 0.000000 |
| DEVI | Well Section Deviation | 57.279999 |
| DTIK_SEL | ADN: Density Tick Channel Name | LSAZ |
| DTMUD | Delta-T for Mud | 227.046997 |
| DYN_IMG_CO | Generate Dynamic Normalized Image? | YES |
| ECC_CORR_A | Perform Eccentering Correction for TNPH? | YES |
| ENVCOR | Neutron Quadrant Processing: Environmental Correction? | YES |
| EVRL | EVR Process averaging number of samples (RM) | 49 |
| FCD | Future Casing (Outer) Diameter | 0.000000 |
| GCSE | Generalized Caliper Selection | BS |
| HPS | ADSE-EB (High Pressure Inconel Chassis)? | NO |
| IBS | Intergal Blade Stabilizer Collar? | YES |
| IDQT | Image Derived Quality Threshold | 2.000000 |
| IHVS | Integrated Hole Volume Start Value(RM) | 0.000000 |
| IMAGE_MAX | Image SOA (Quadrant) Right Scale | 2.500000 |
| IMAGE_MAX | Image PEF(Segment) Right Scale | 6.000000 |
| IMAGE_MAX | Image RHOB(Segment) Right Scale | 2.650000 |
| IMAGE_MIN | Image SOA (Quadrant) Left Scale | 0.000000 |
| IMAGE_MIN | Image PEF(Segment) Left Scale | 2.000000 |
| IMAGE_MIN | Image RHOB(Segment) Left Scale | 2.050000 |
| JSD_ADN | ADN Acquisition start date | 2.050000 |
| LITHO_TYPE | Lithology (RM) | LIME |
| N1FTU_6_RM | ADN: Neutron Bank 1 Far Tubes used : | 1-2-3 |
| N2FTU_6_RM | ADN: Neutron Bank 2 Far Tubes used : | 1-2-3 |
| NNTU_RM | ADN Neutron Near Banks Used | 1-2 |
| NTIK_SEL | ADN: Neutron Tick Channel Name | FR11 |
| SOCNL | Standoff Distance of the CNL Tool | 1.000000 |
| SSIZ_ADN | ADN Stabilizer Size | 8.250000 |
| STOH | ADN Density Top of Hole Sector (Left Boundary): | SECTOR_0 |
| TRPM_RM | Average Tool Rotational Speed | 120.000000 |
| USMIN_RM | ADN:Minimum Ultrasonic standoff (RM) | 0.180000 |
| USWF_RM | ADN:Process Ultrasonic Waveform? | YES |
| VERS_ADN | ADN Downhole Software Version | 8.300000 |
| WSDI | Window Size of Dynamic Normalization Image | 49.999996 |

Schlumberger Drilling & Measurements

Parameter Insert Header Software version 2.0c

IDEAL Version: ID12_OC_09

IDF

ARC6A-AA id12_Oc_01 ADN id12_Oc_01

Format: VISION Density Neutron RM Log Vertical Scale: 1:200 Graphics File Created: 31-May-2007 14:28

PIP SUMMARY

Neutron Samples +

+ Density Samples

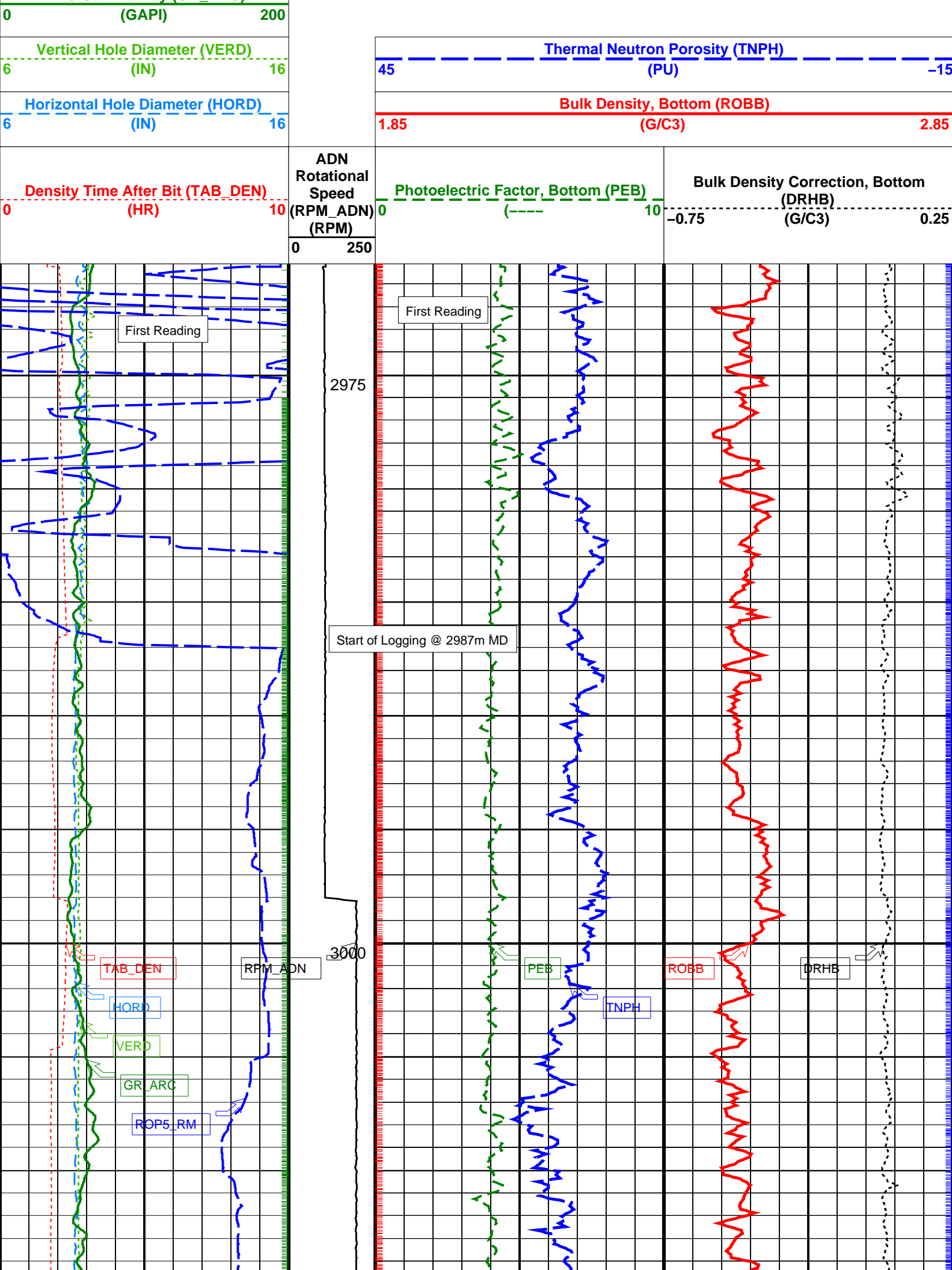
+ ARC Gamma Ray Samples

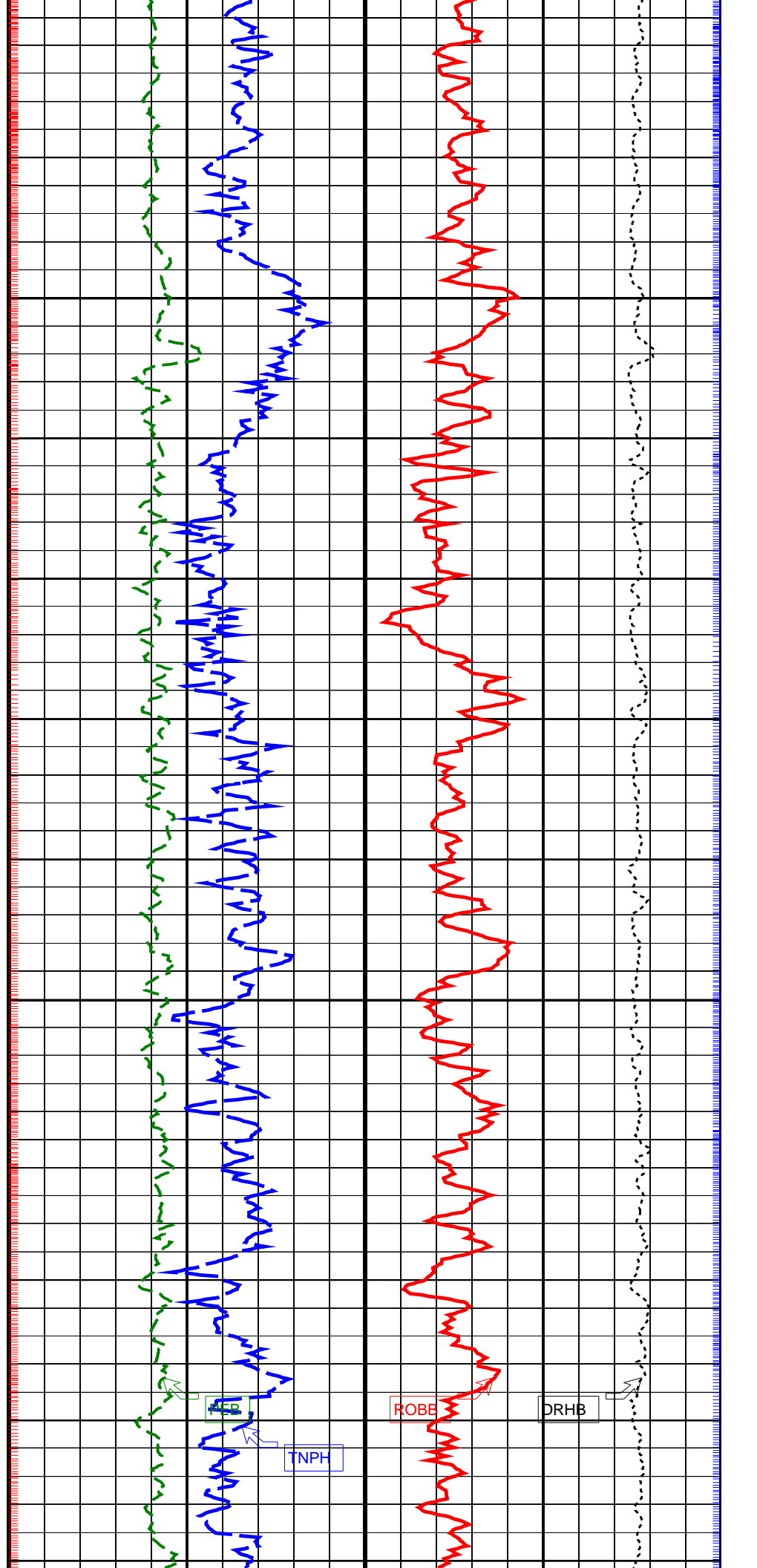
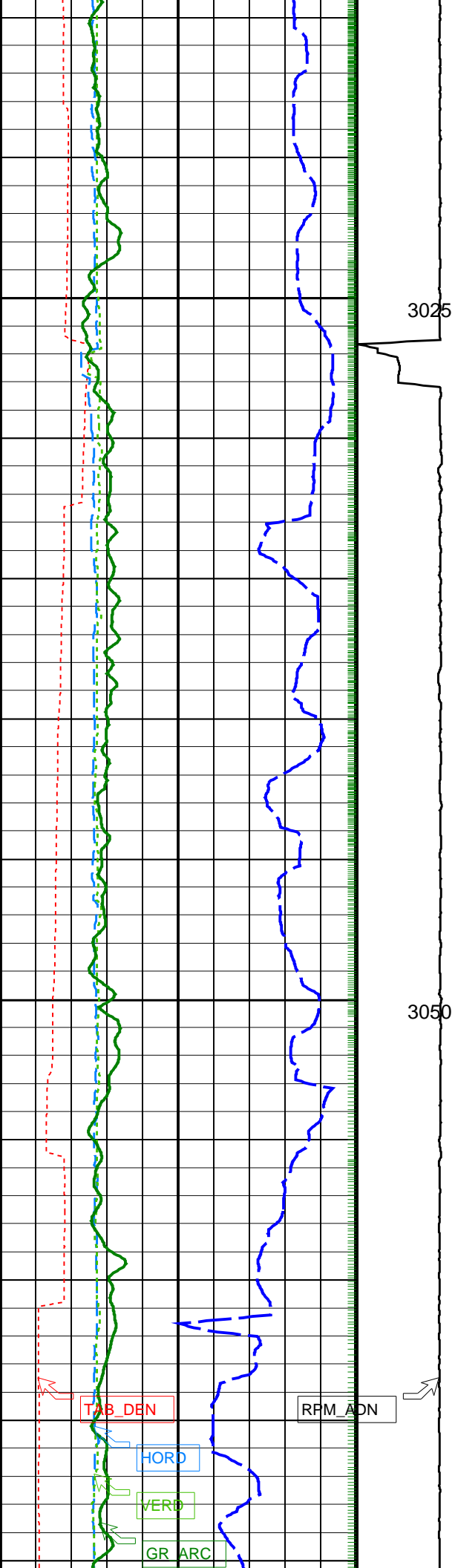
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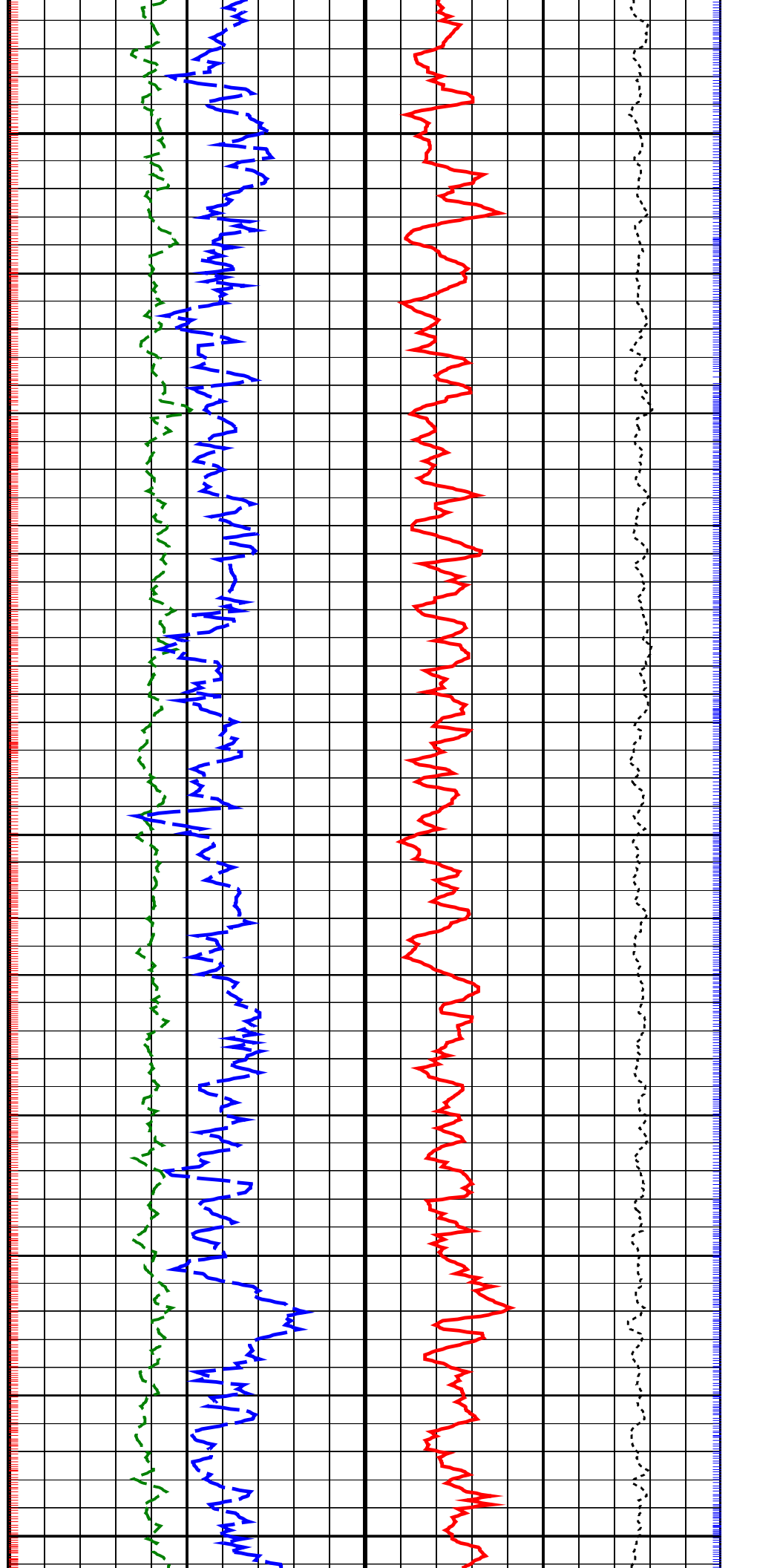
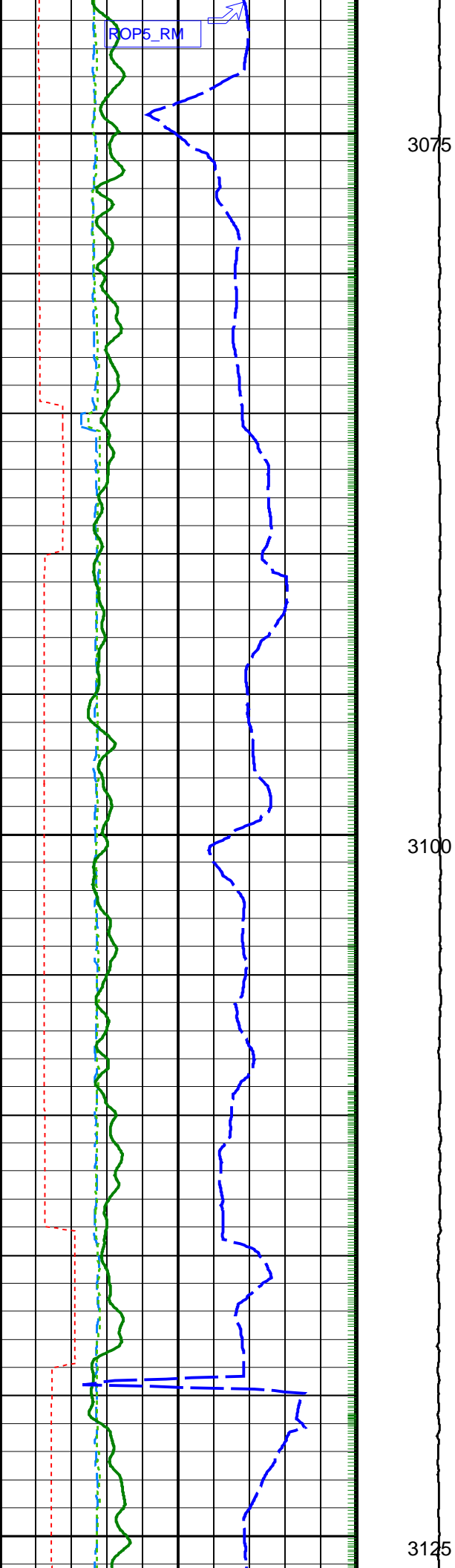
5ft (ROP5_RM)

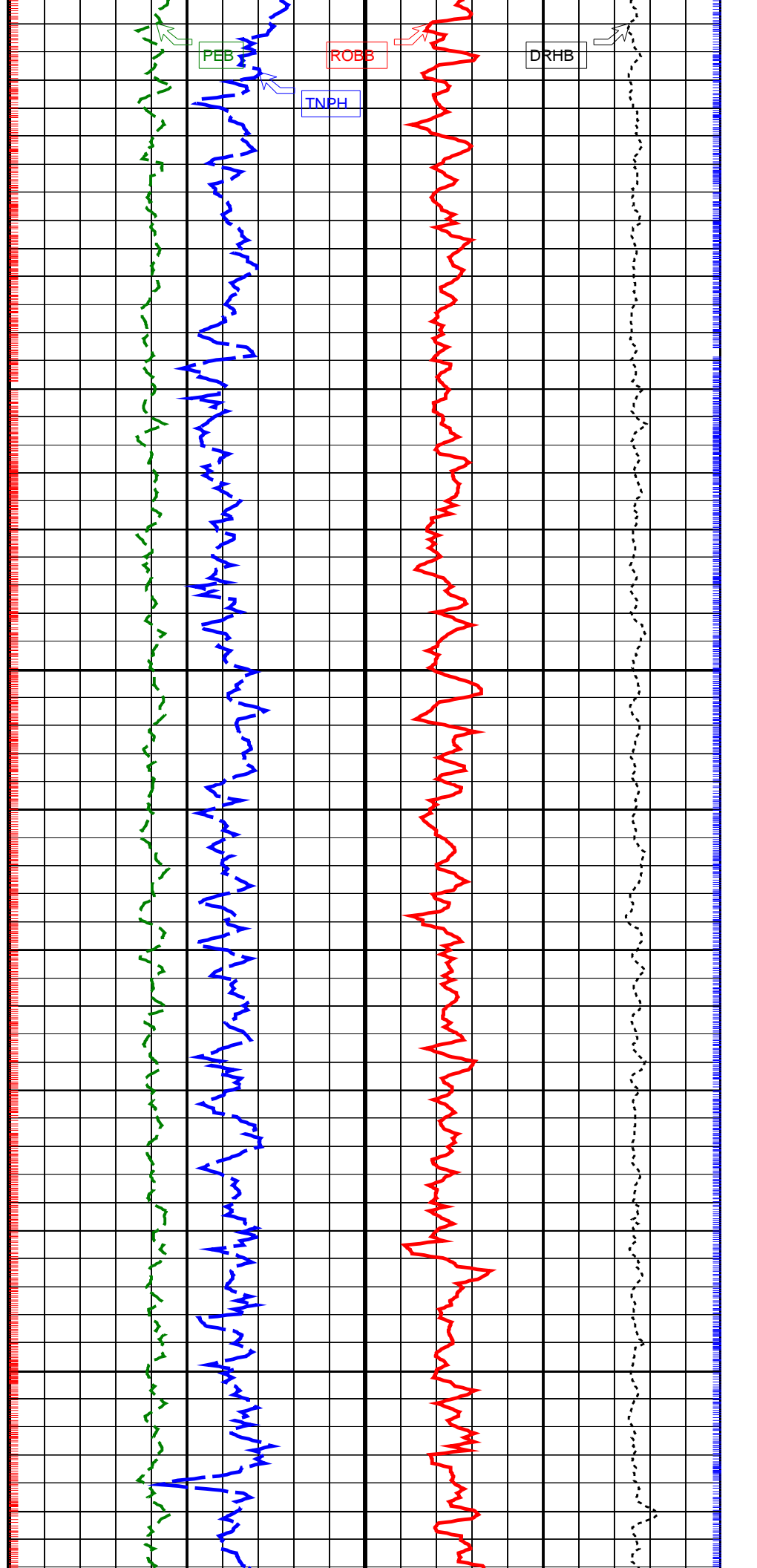
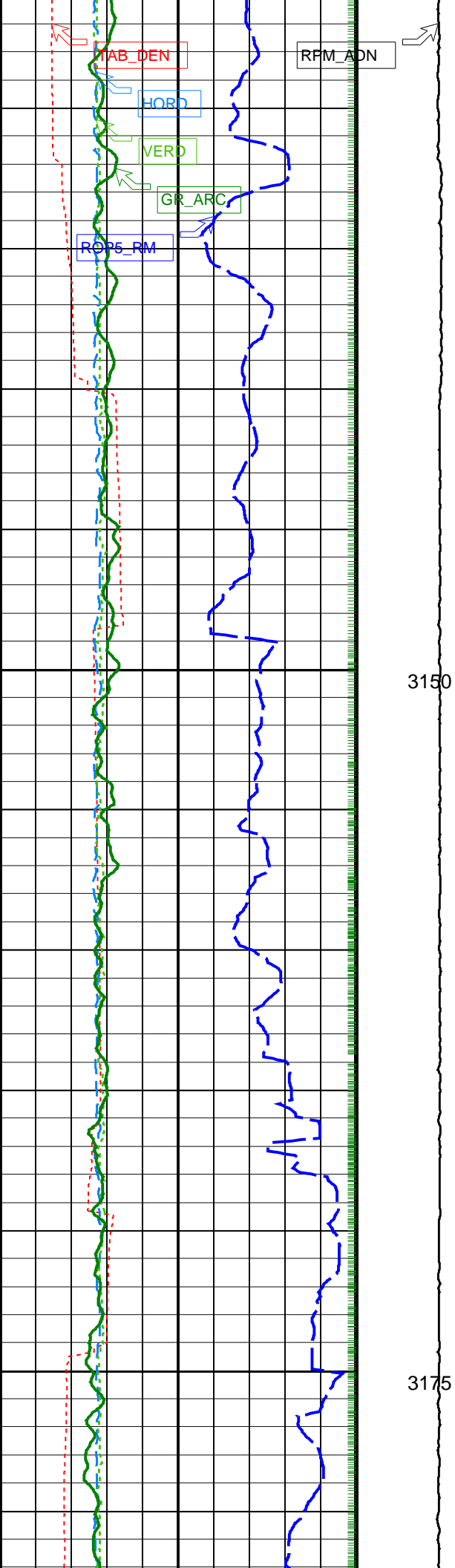
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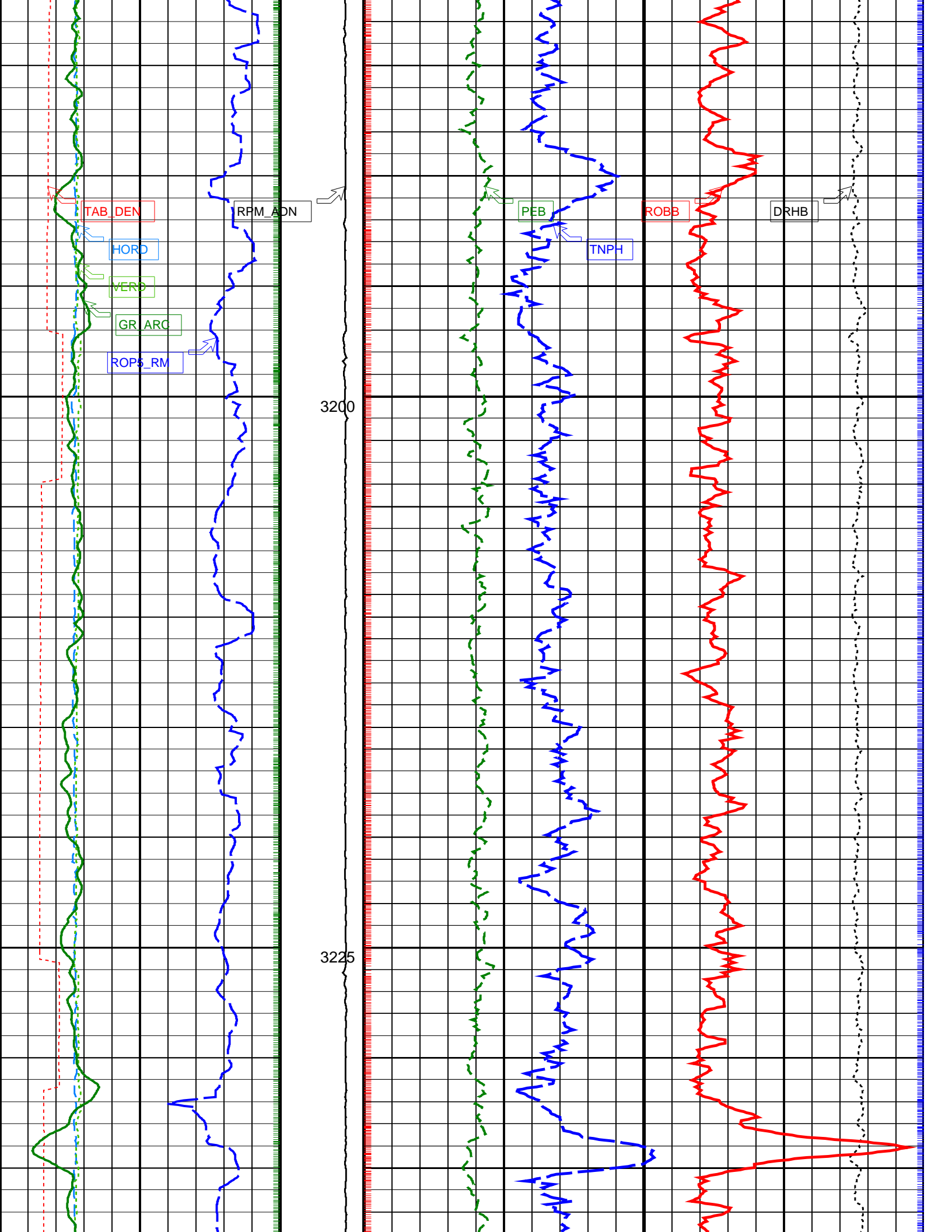
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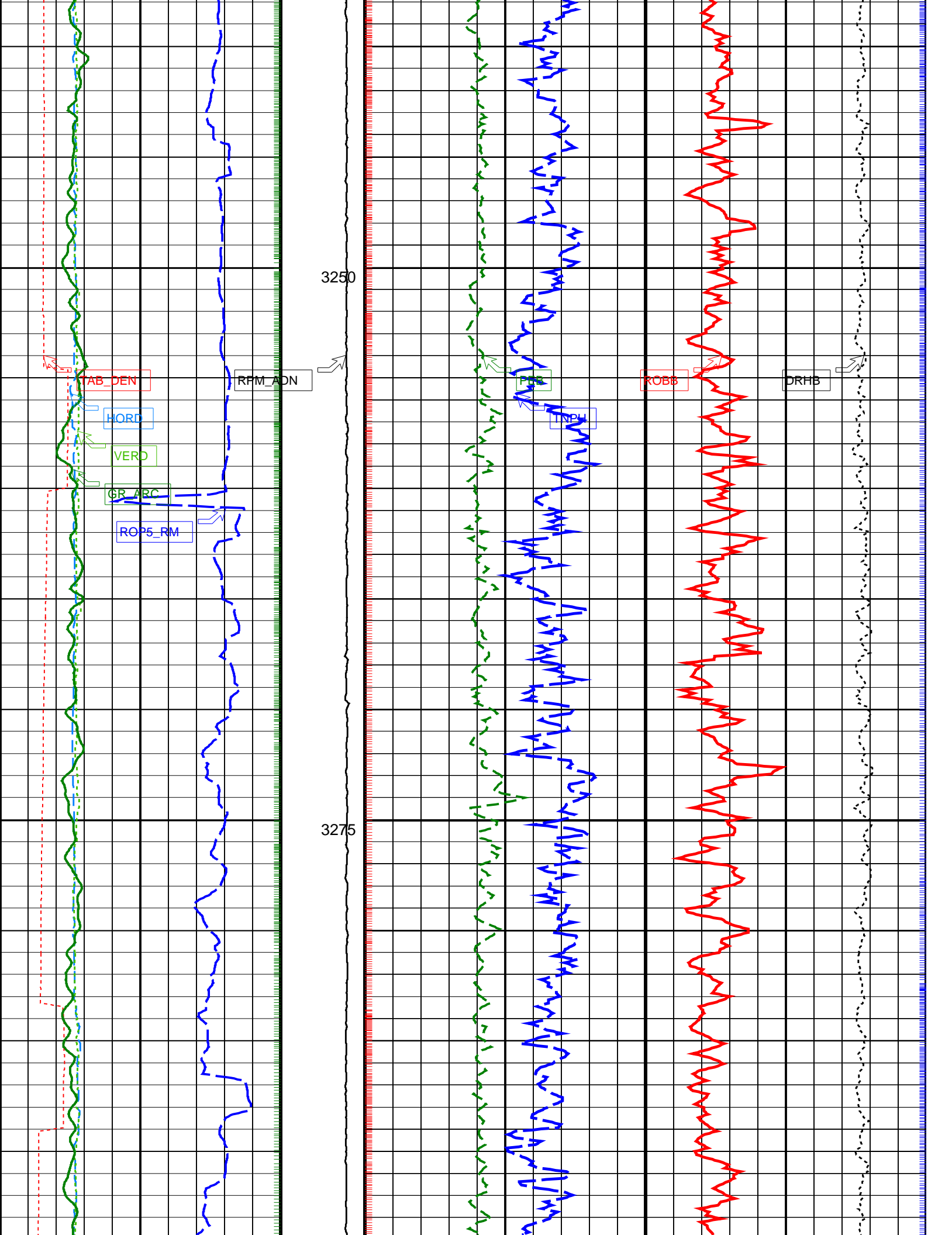


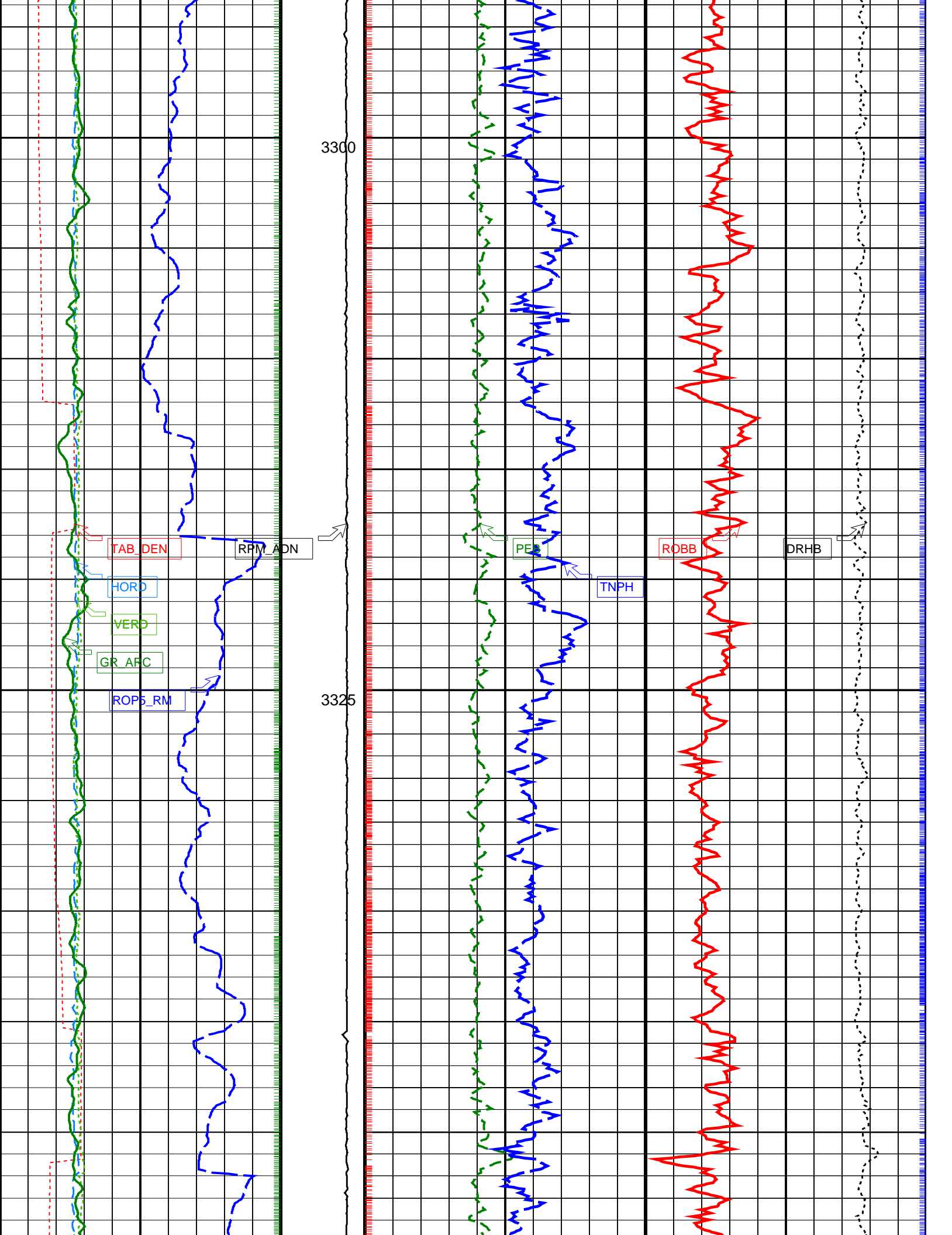


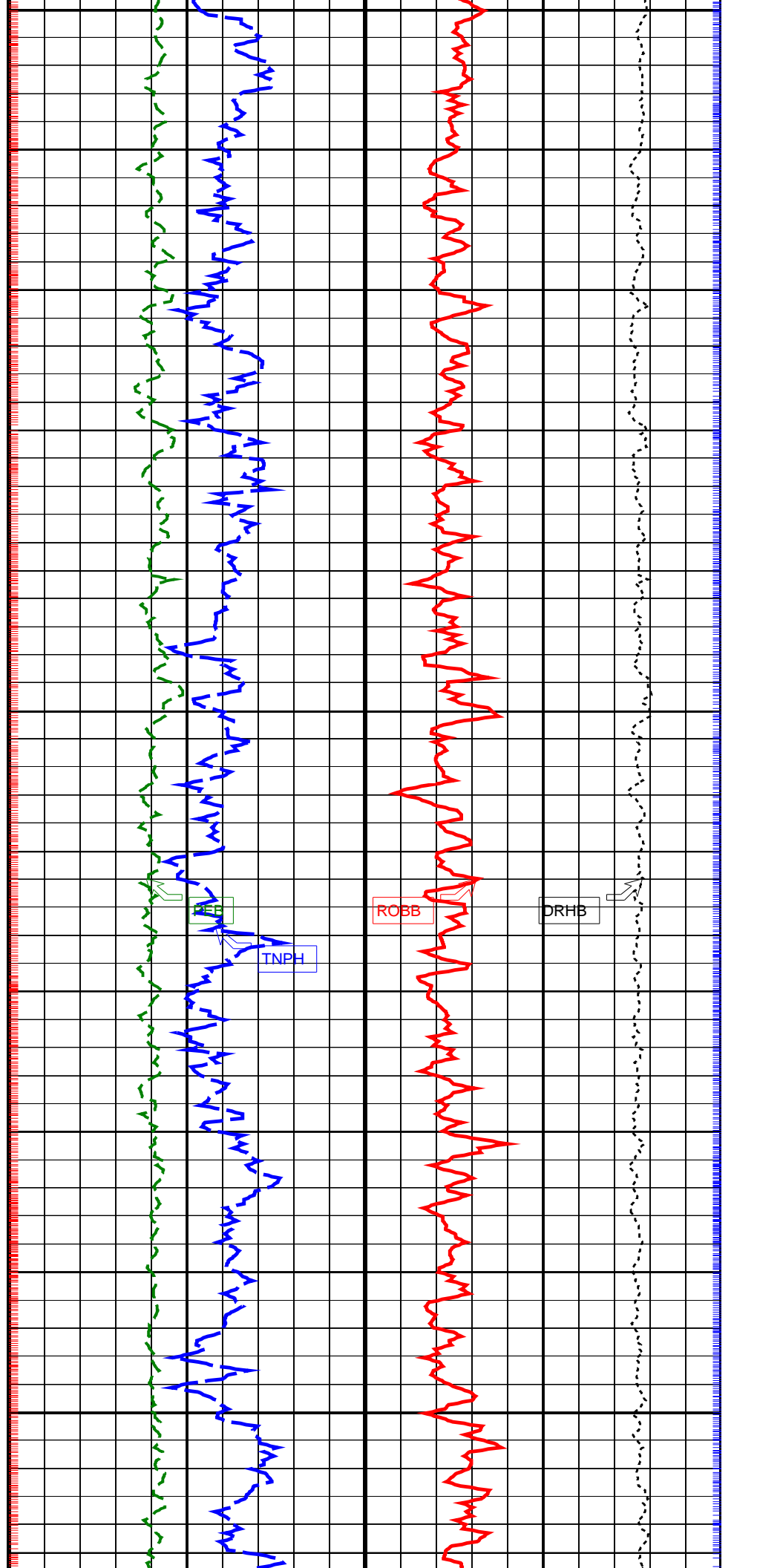
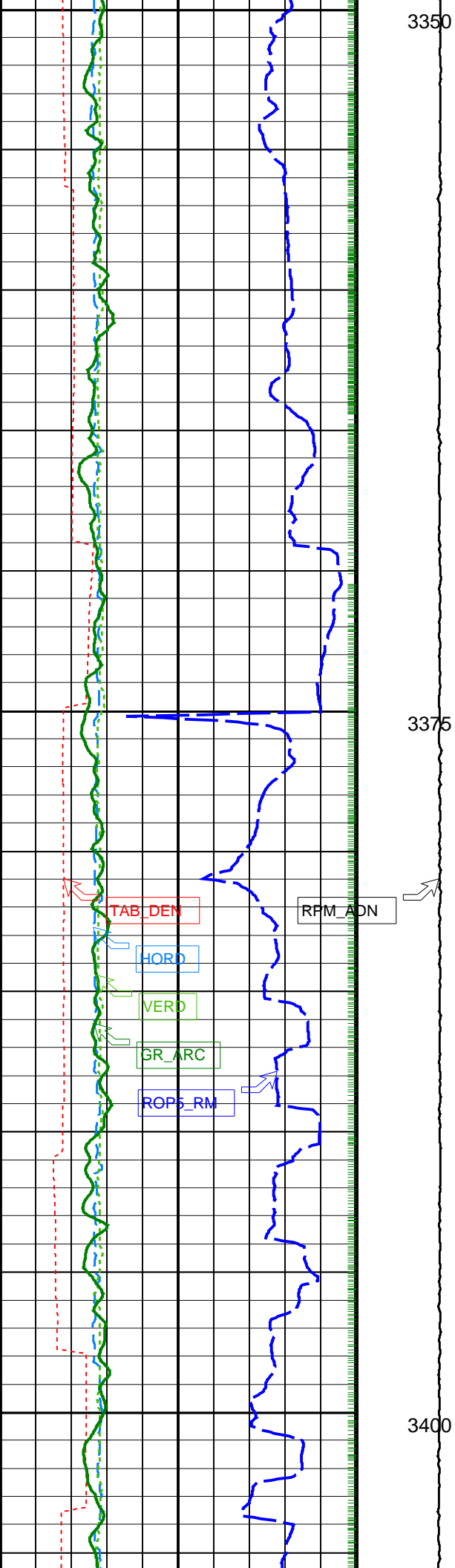


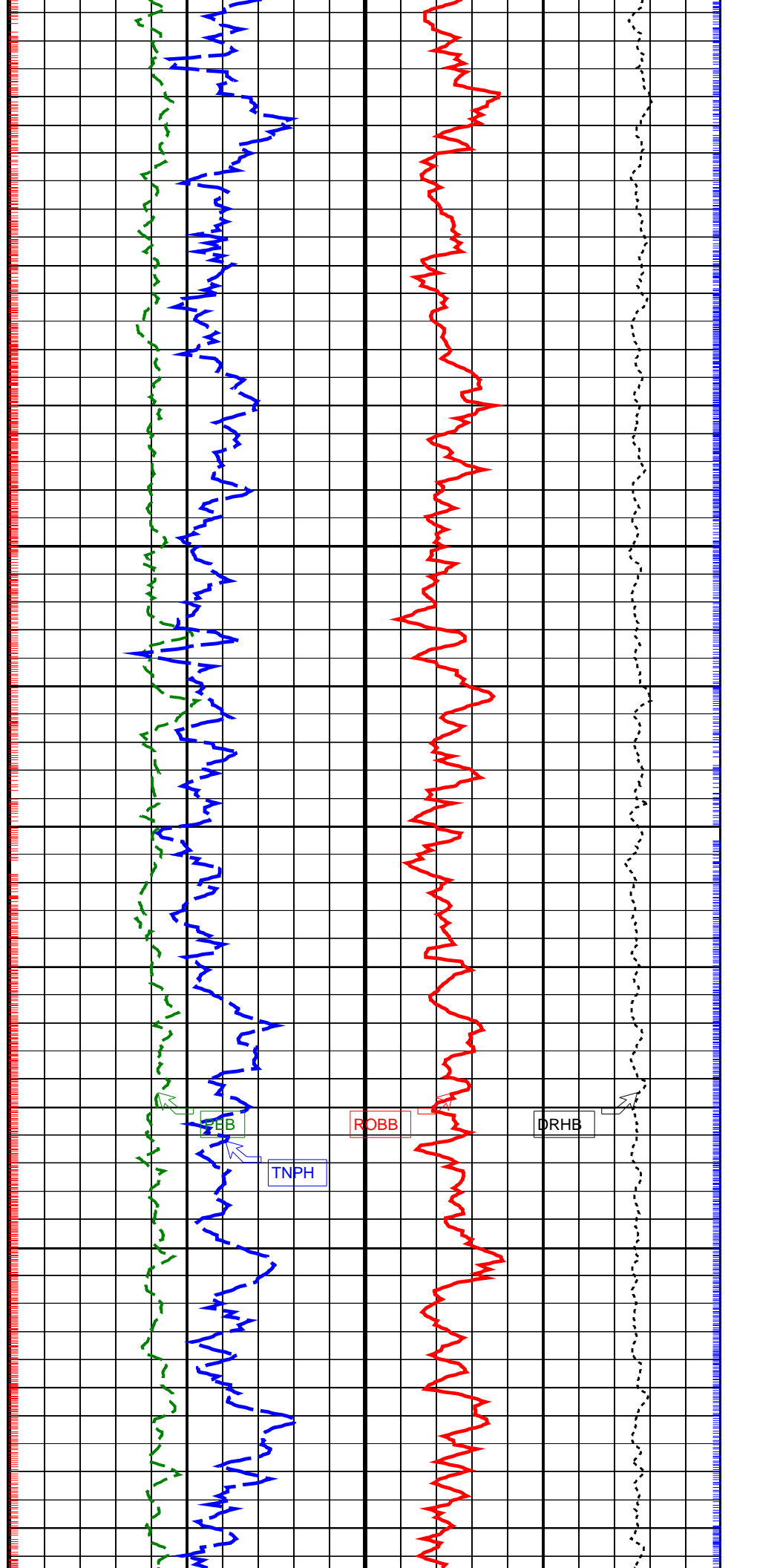
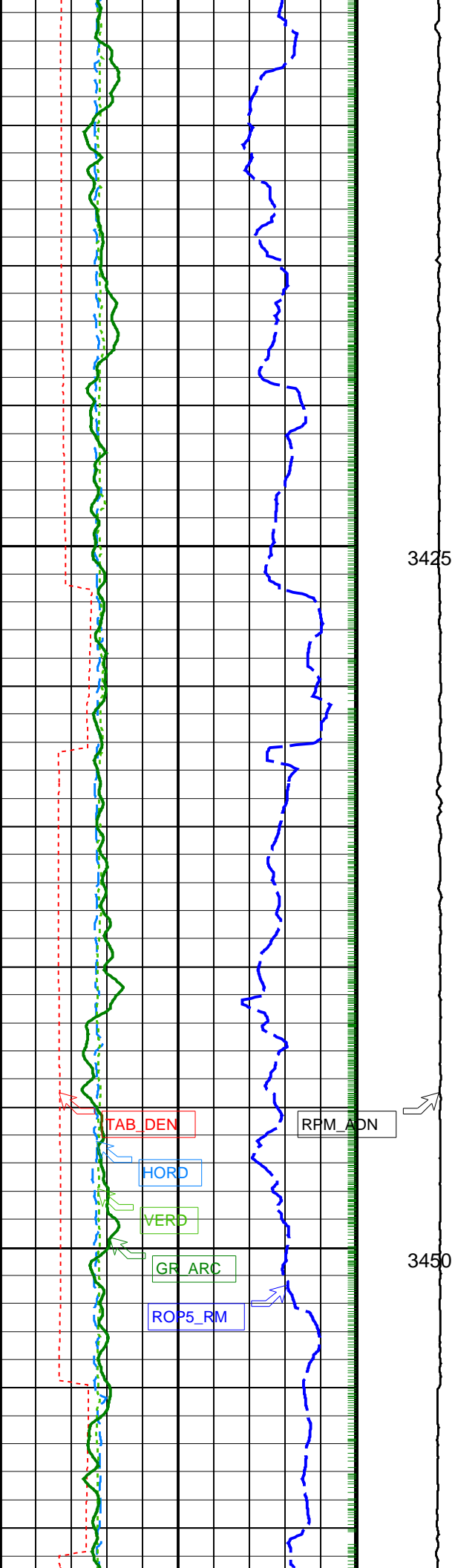


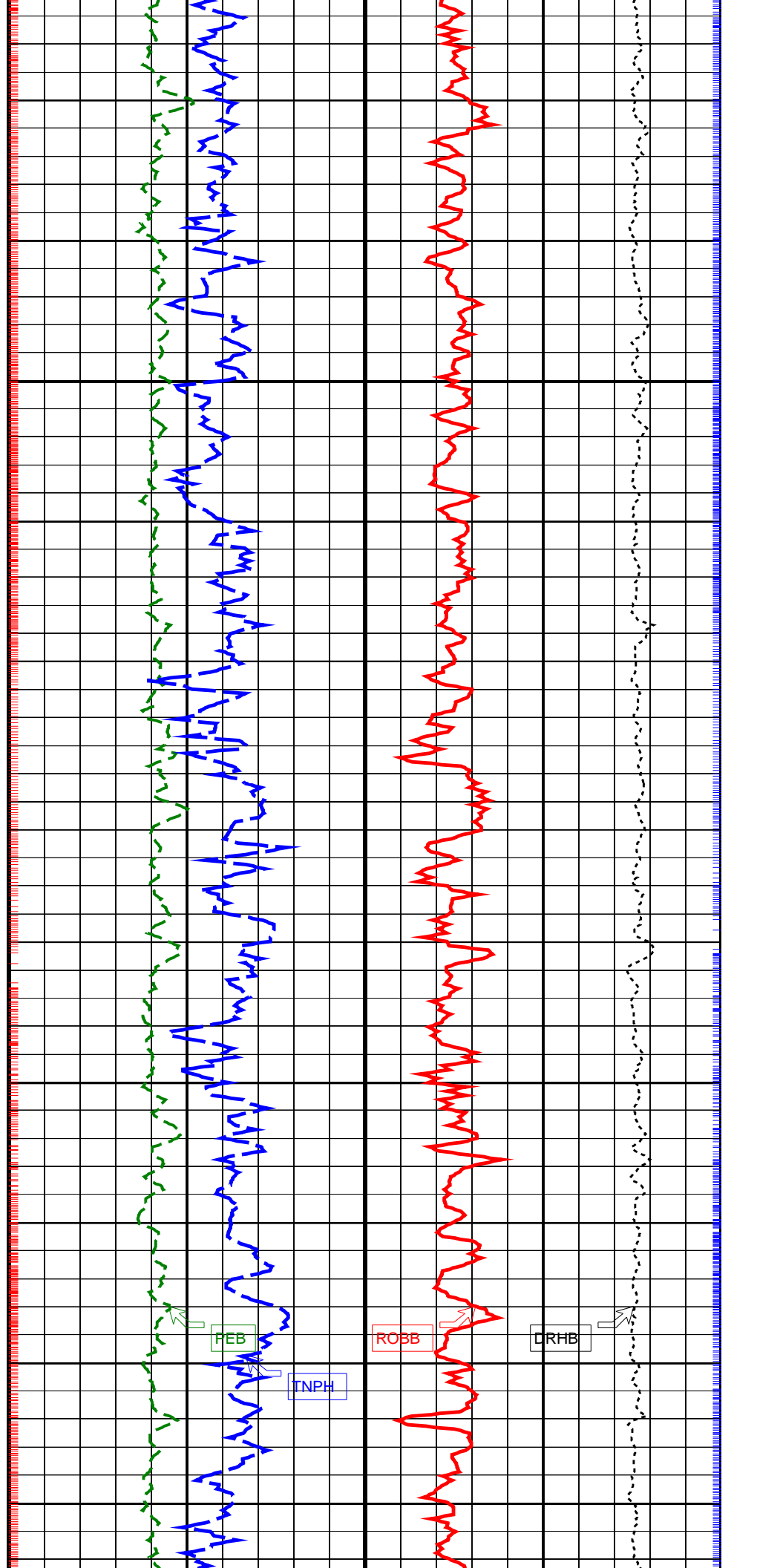
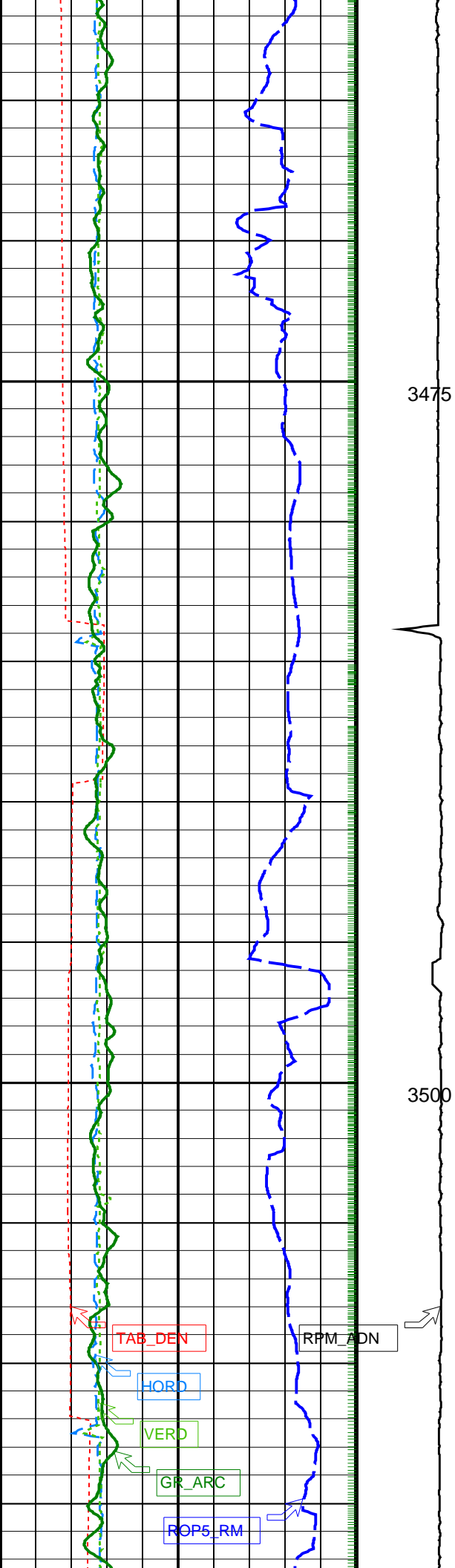


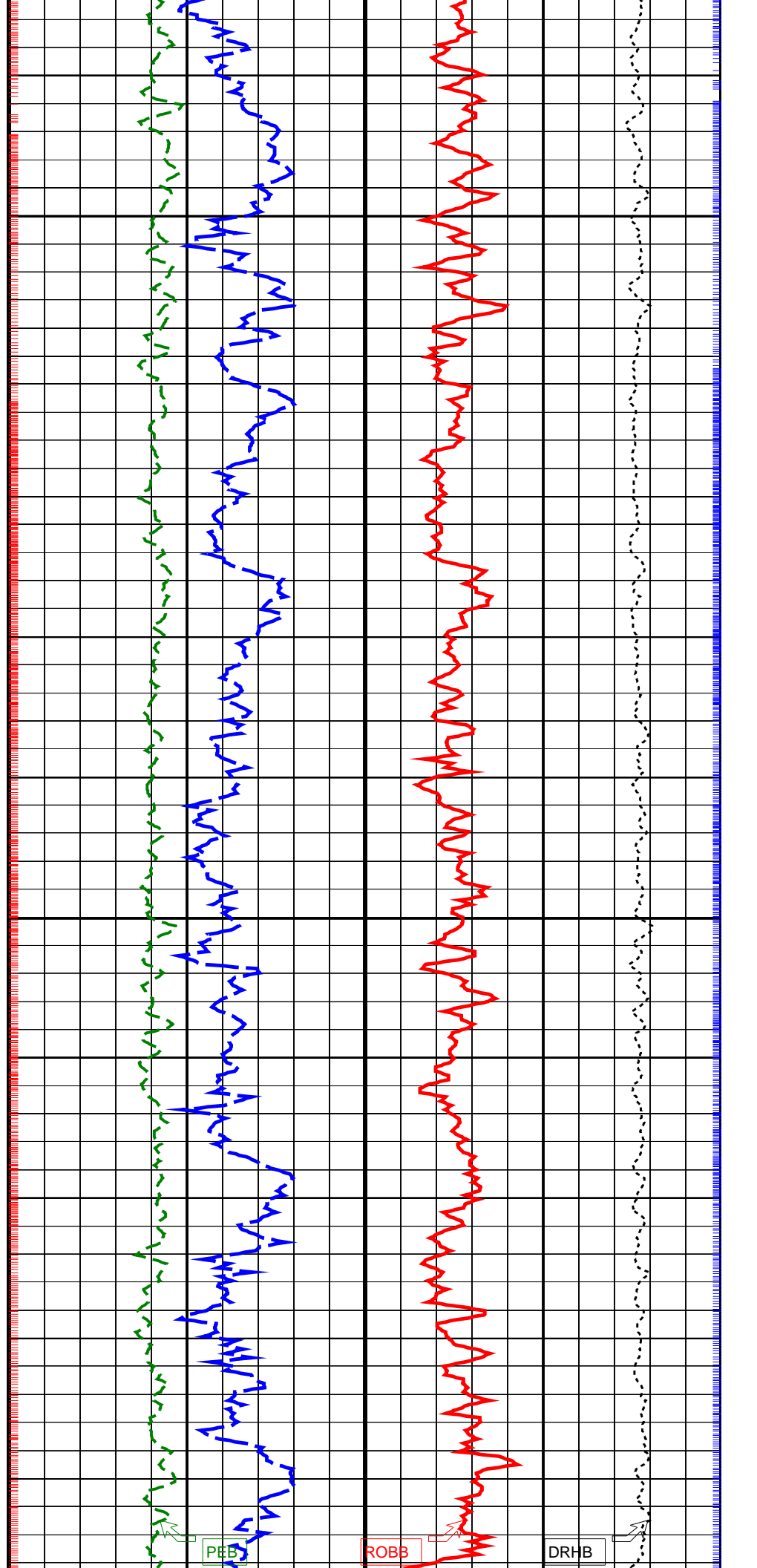
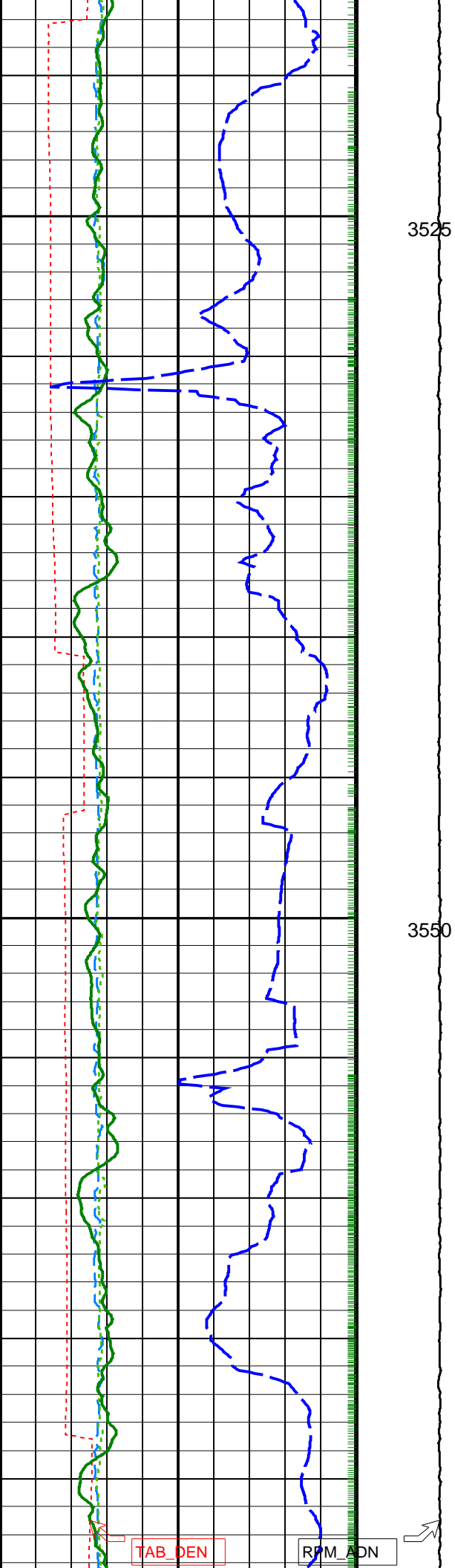


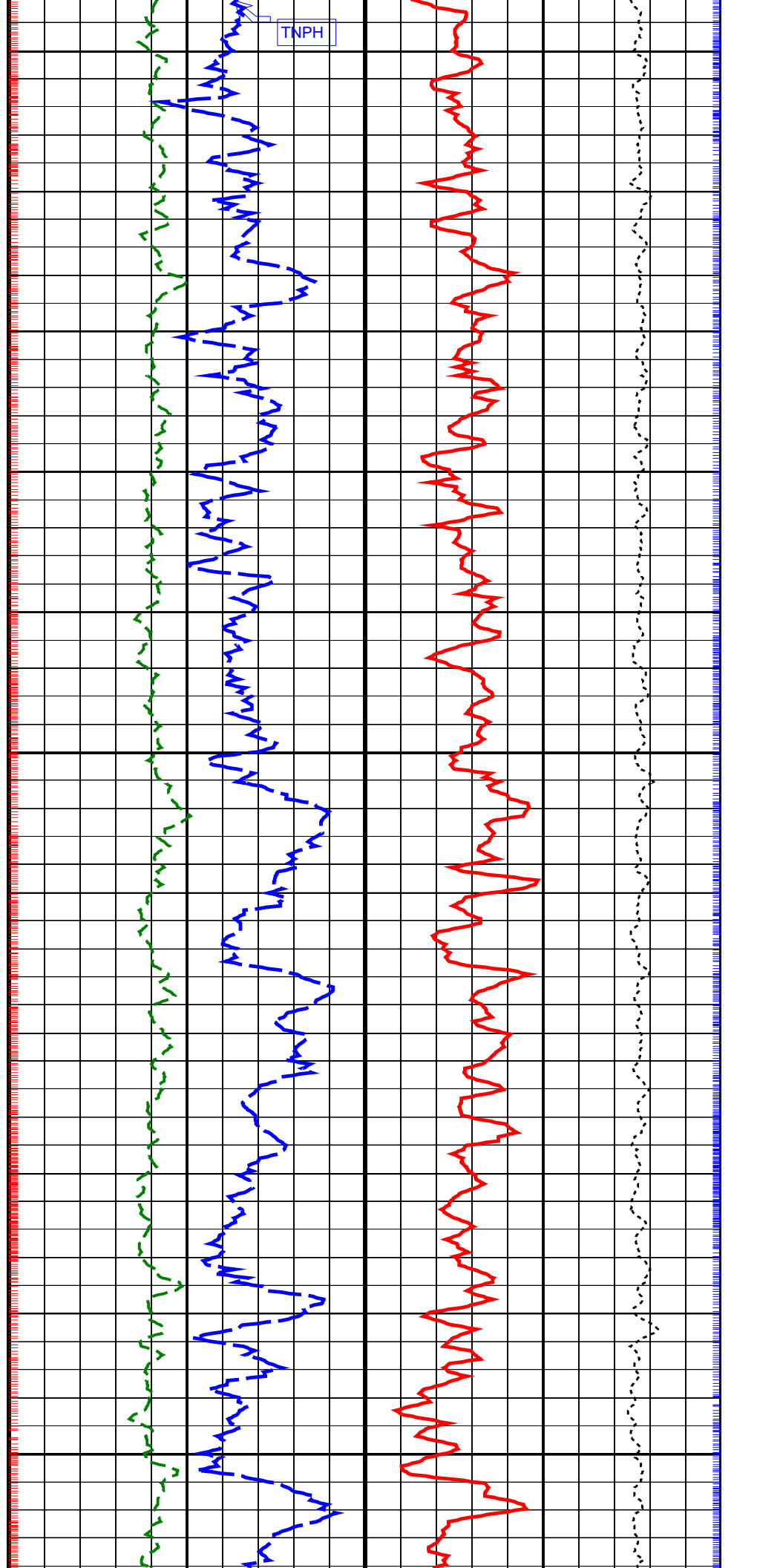
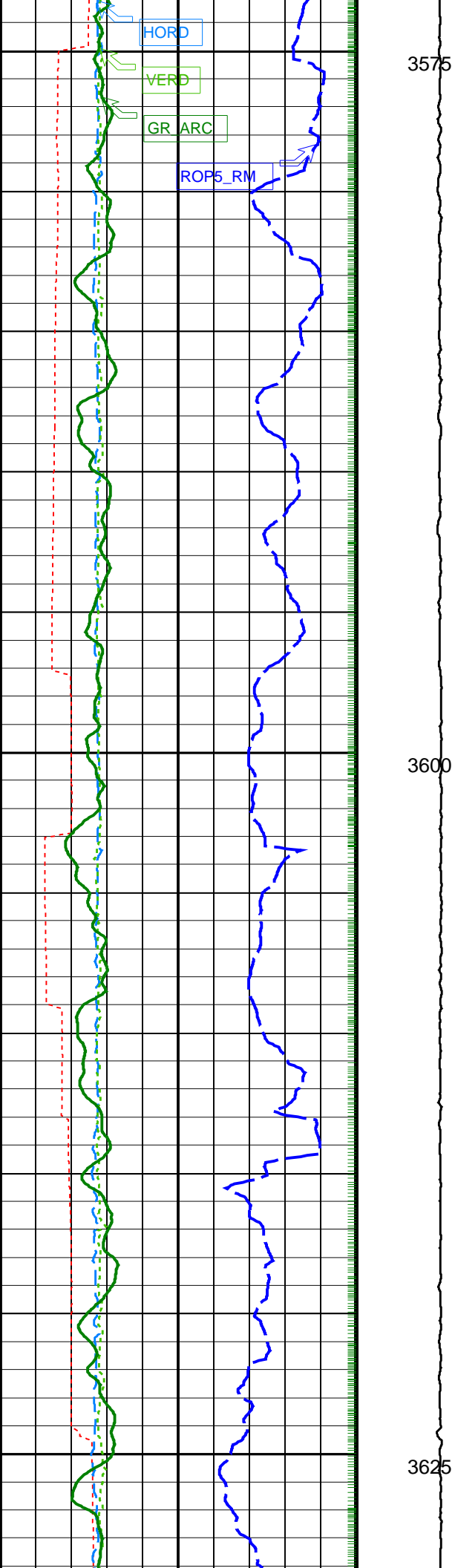


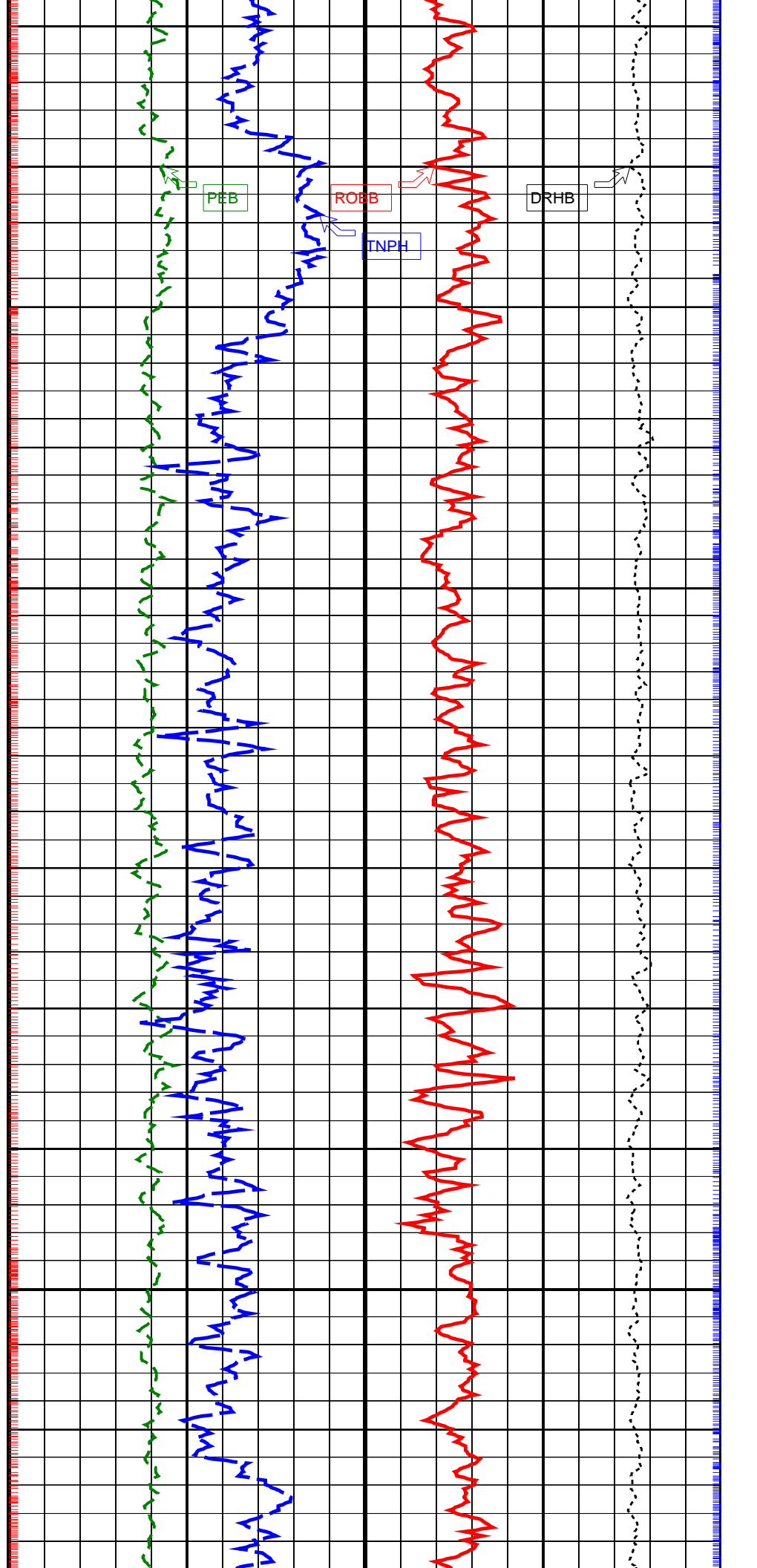
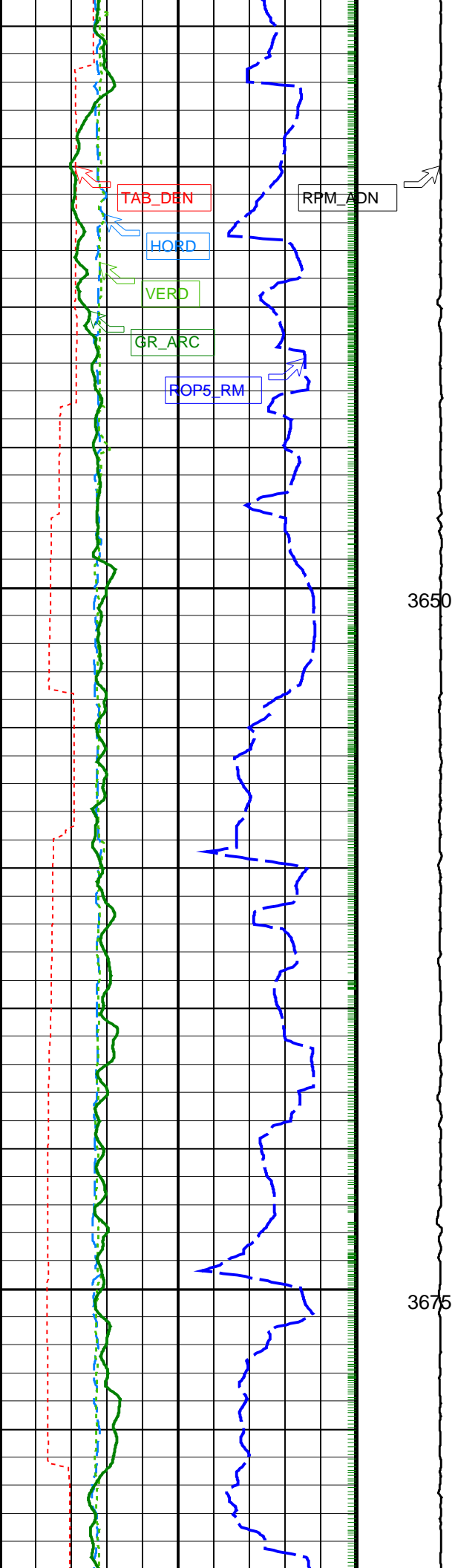


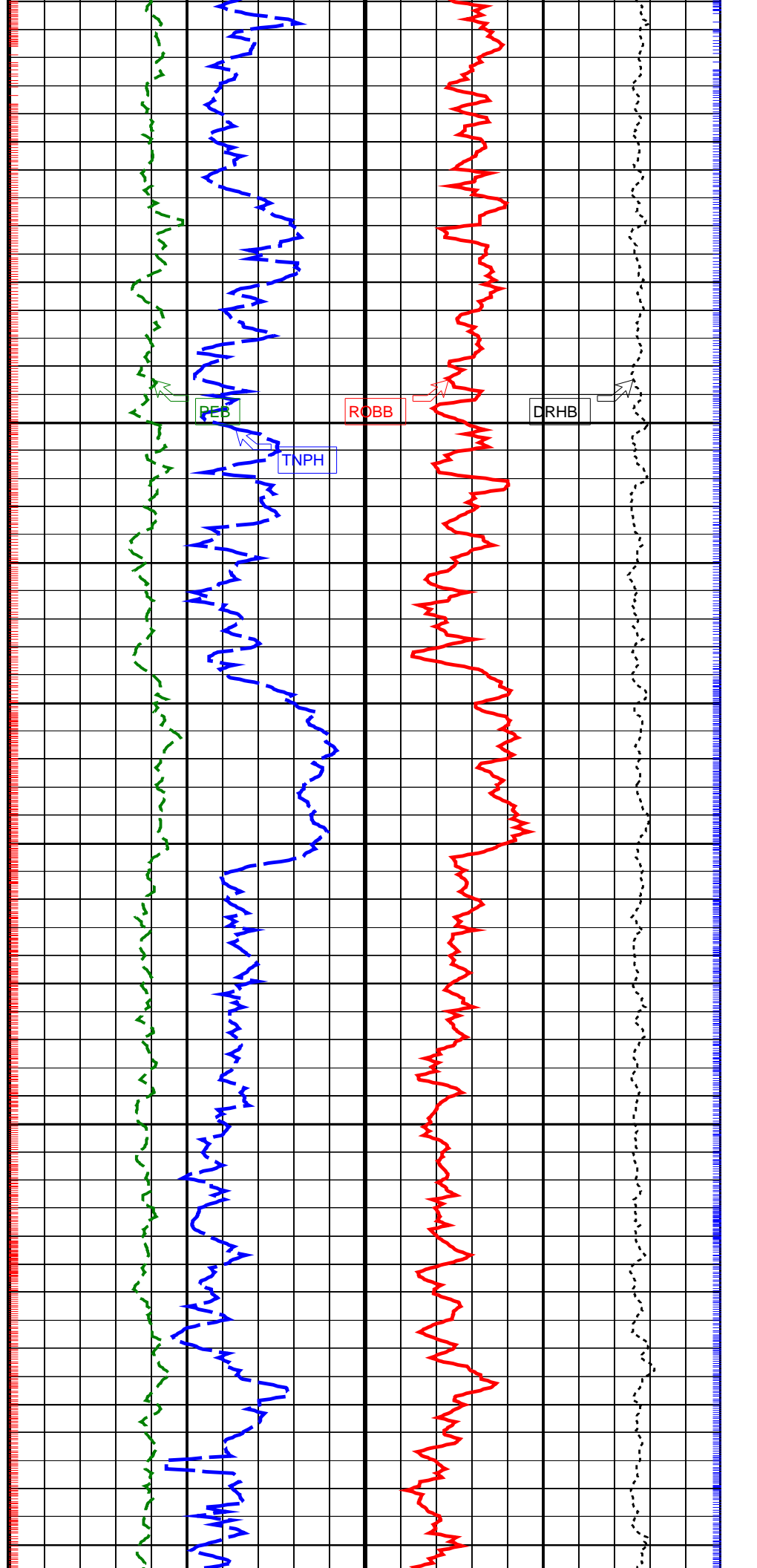
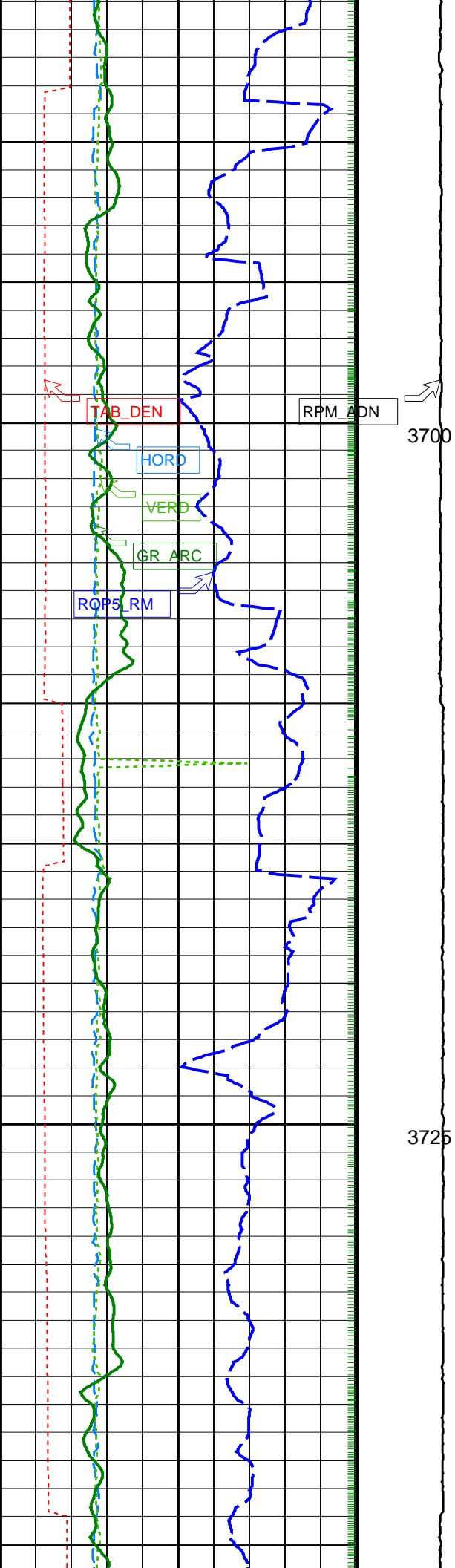


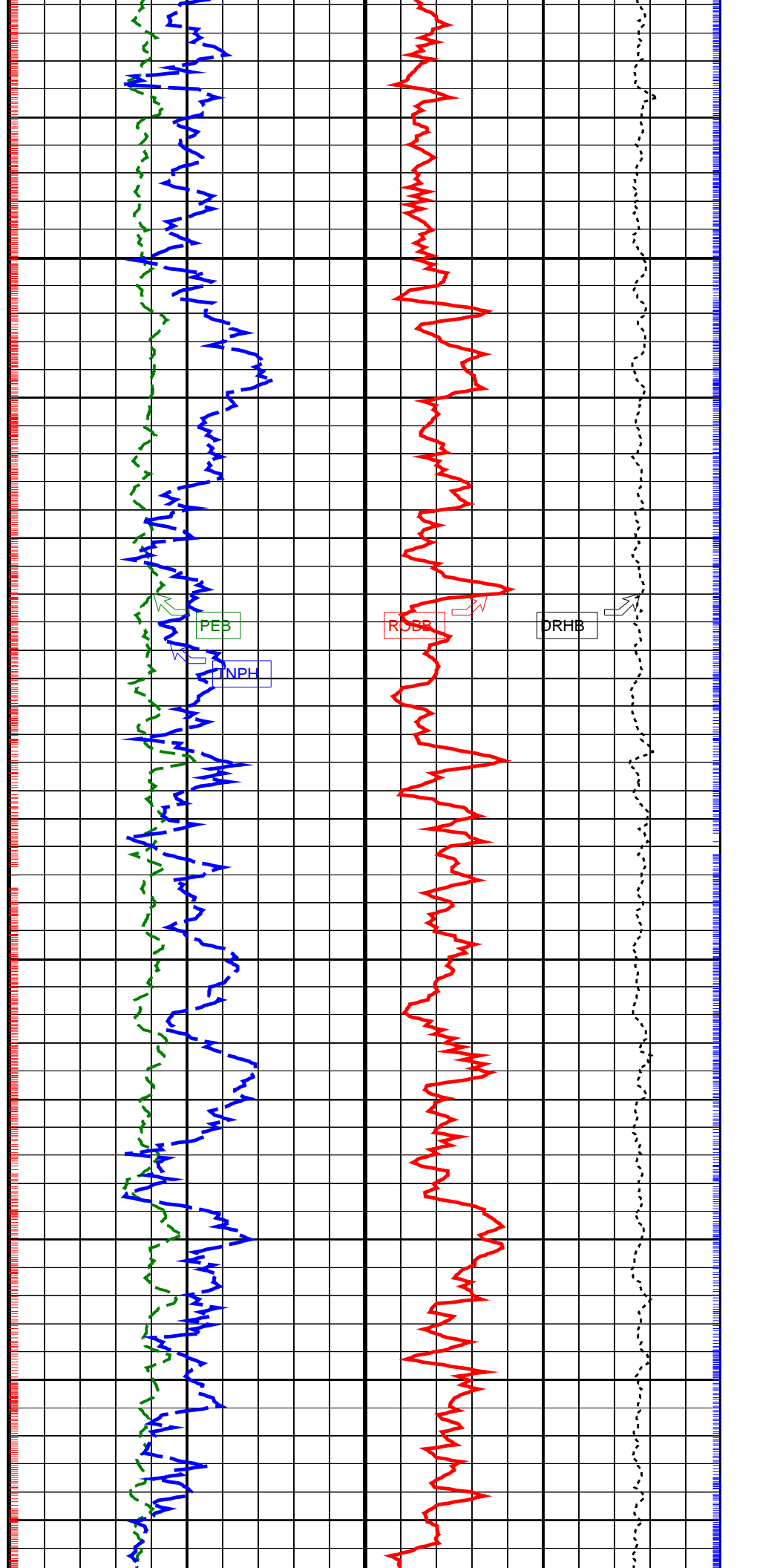
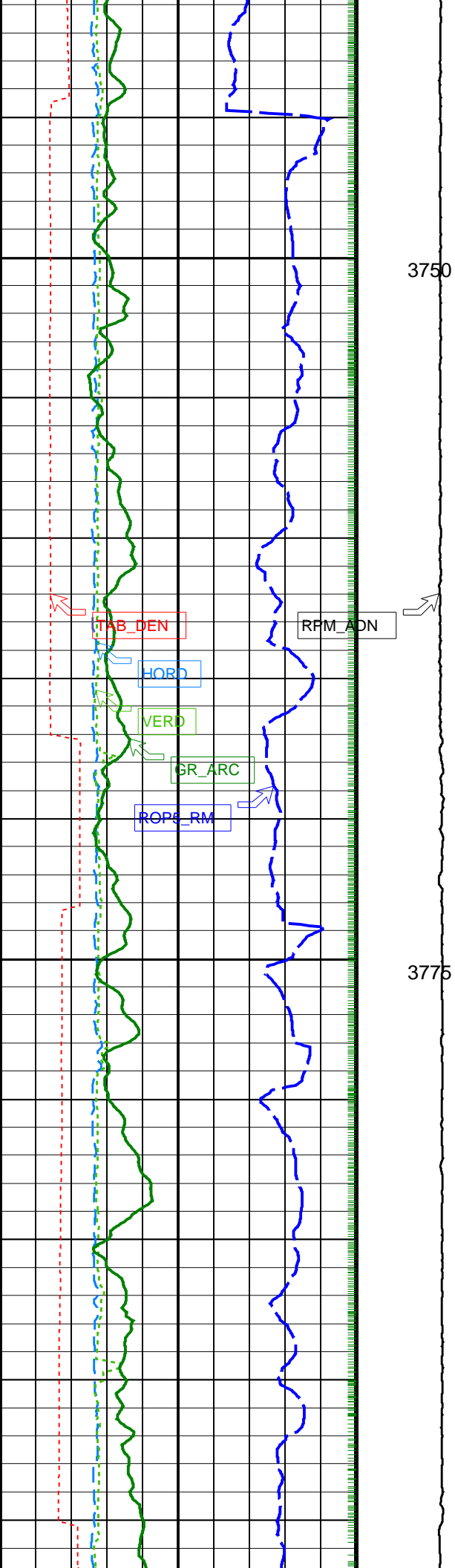


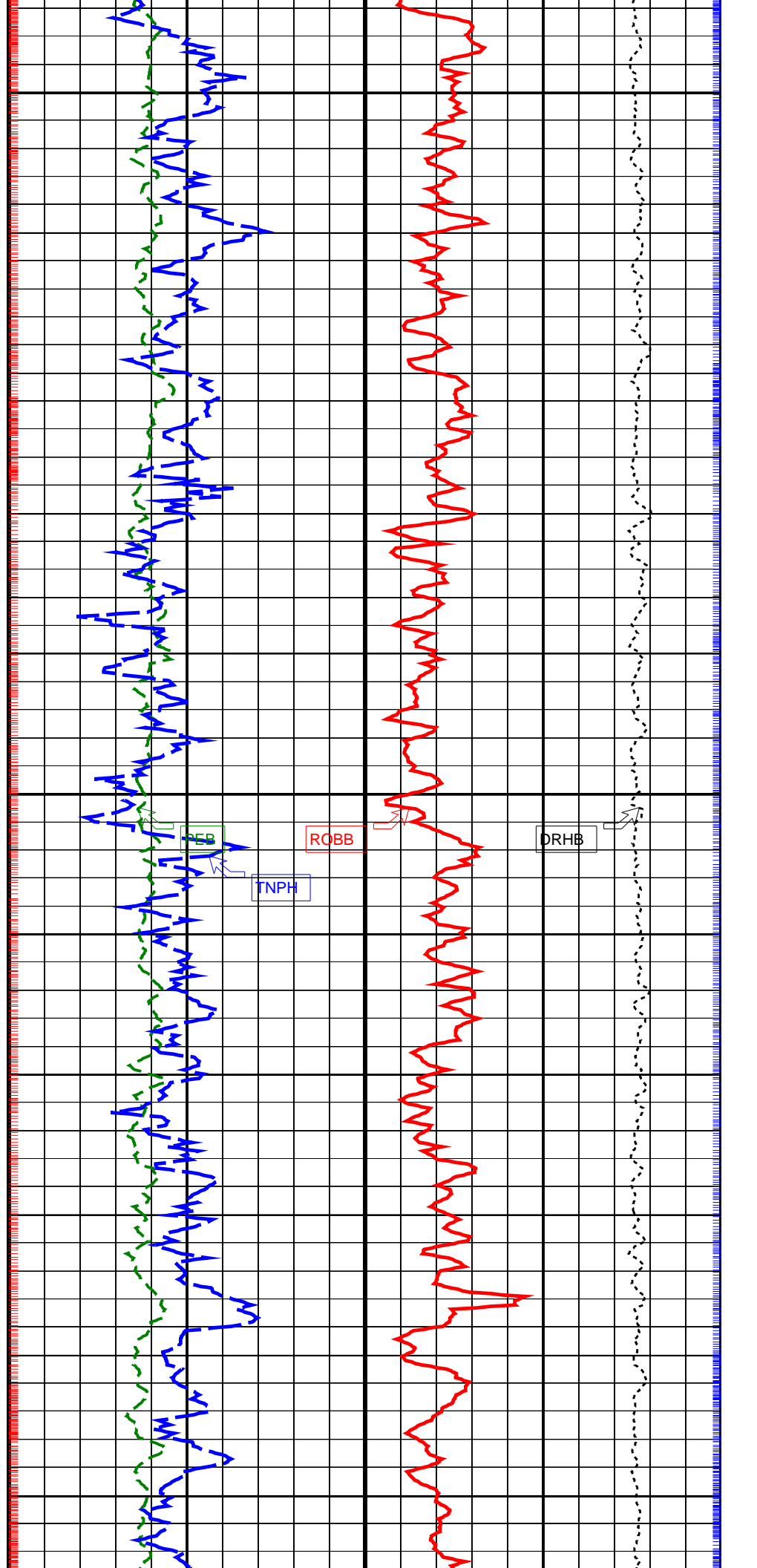
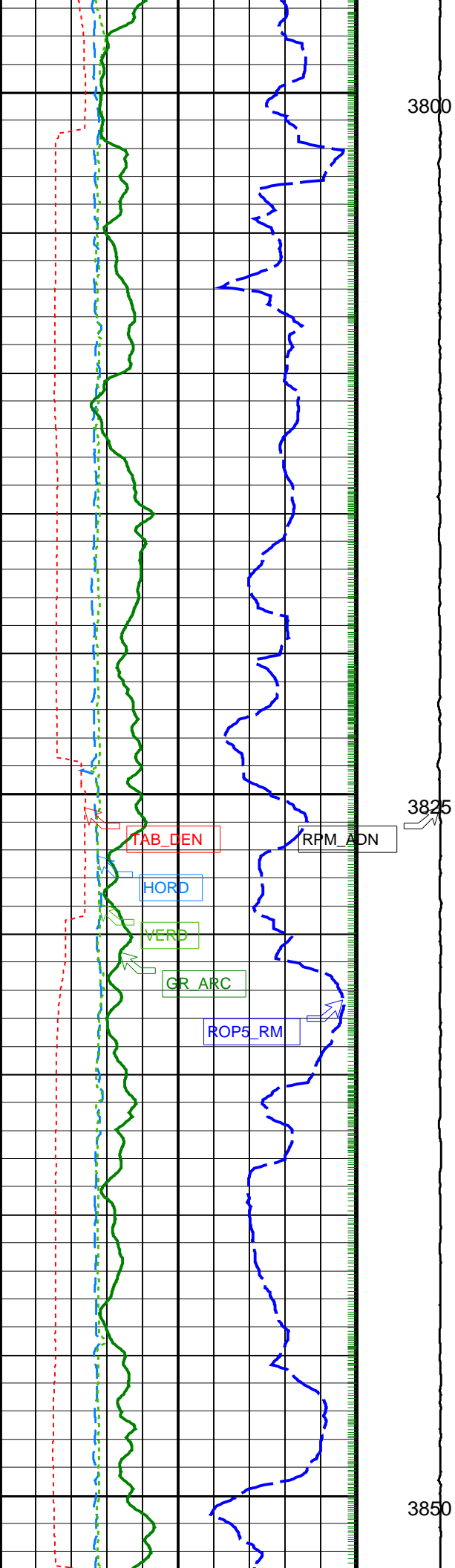


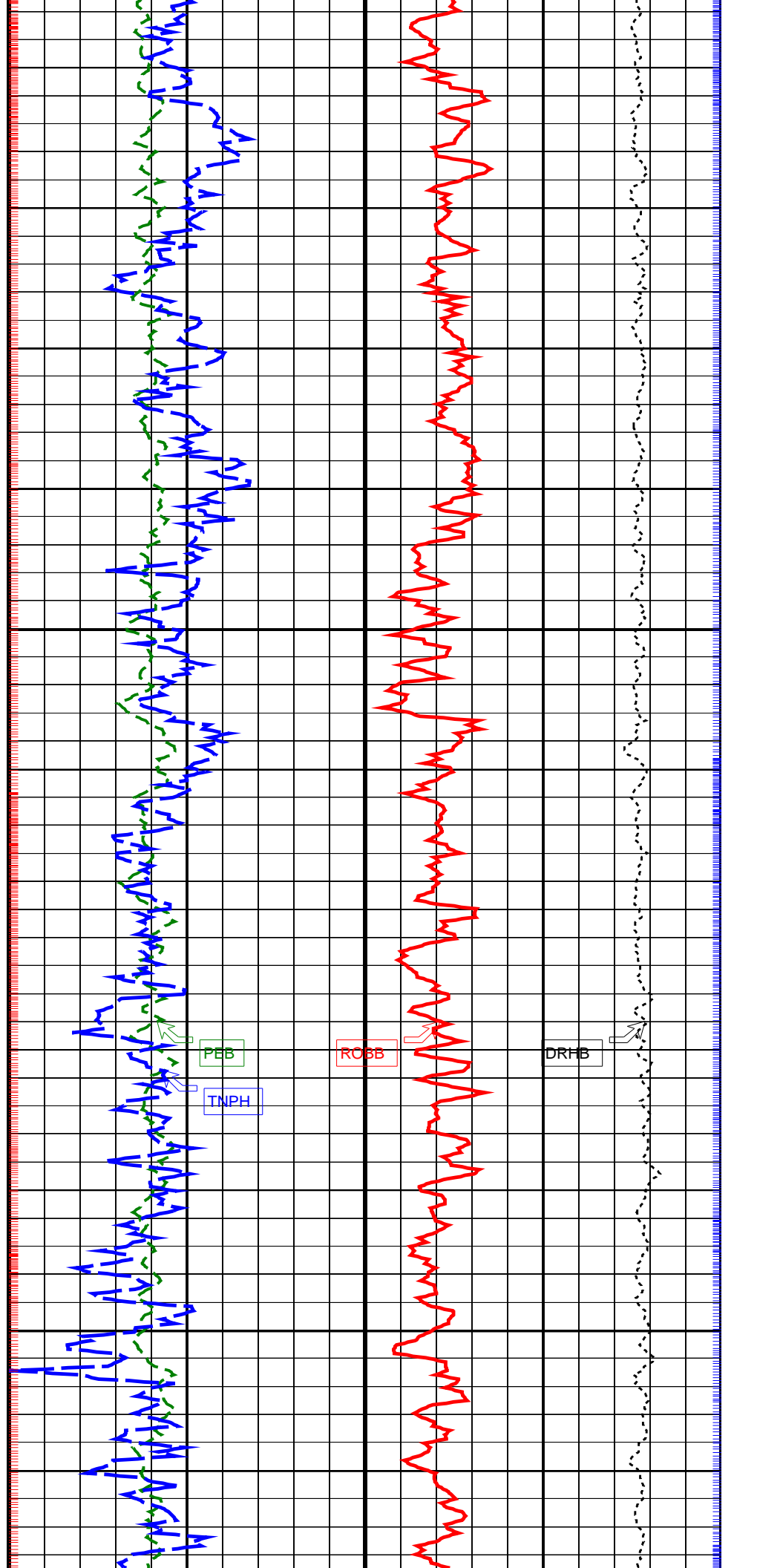
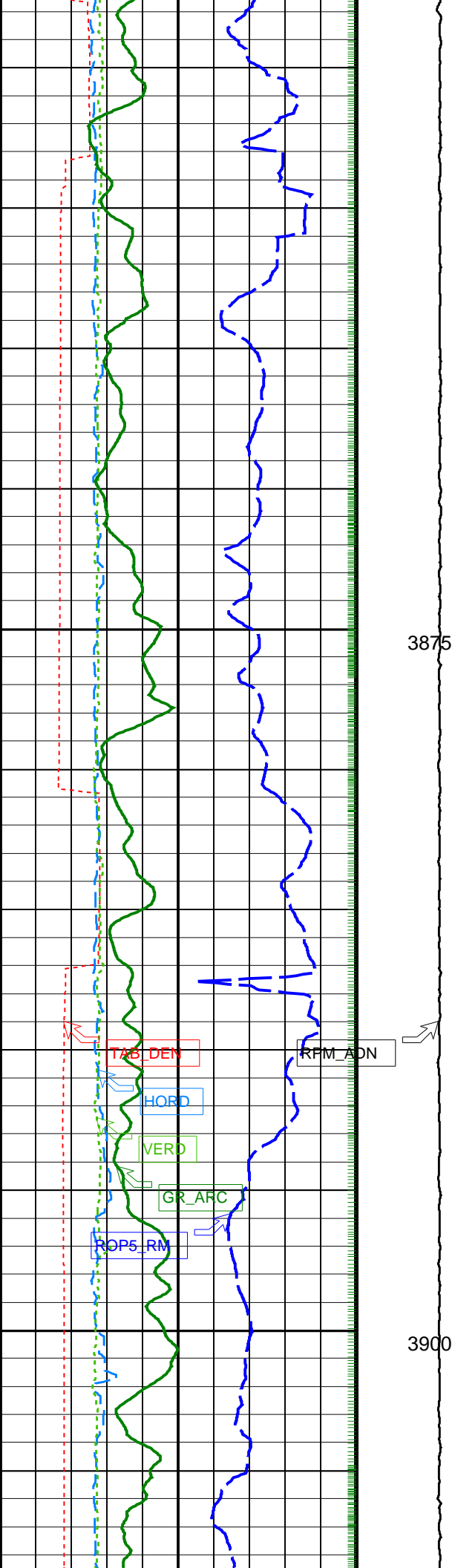


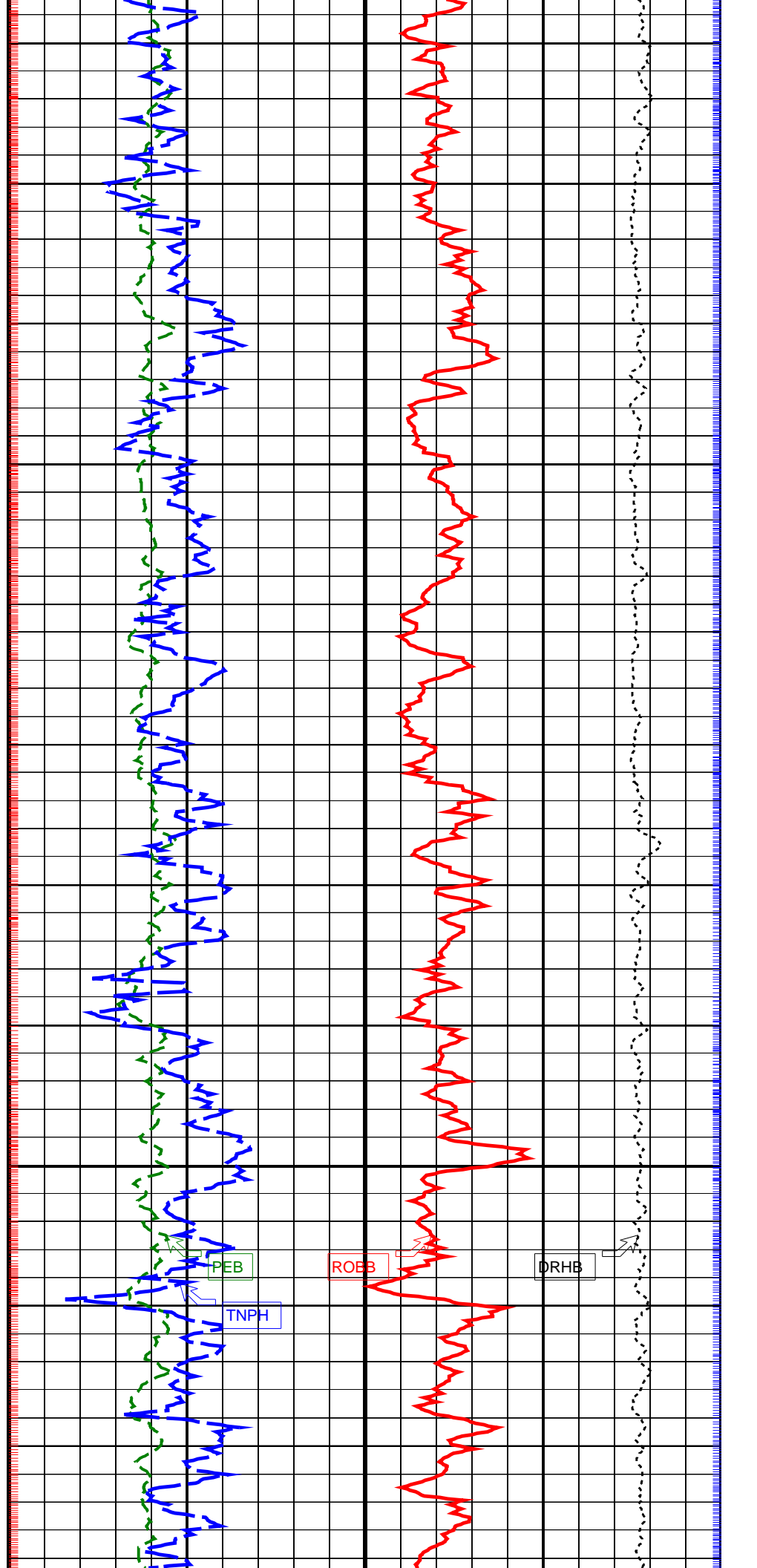
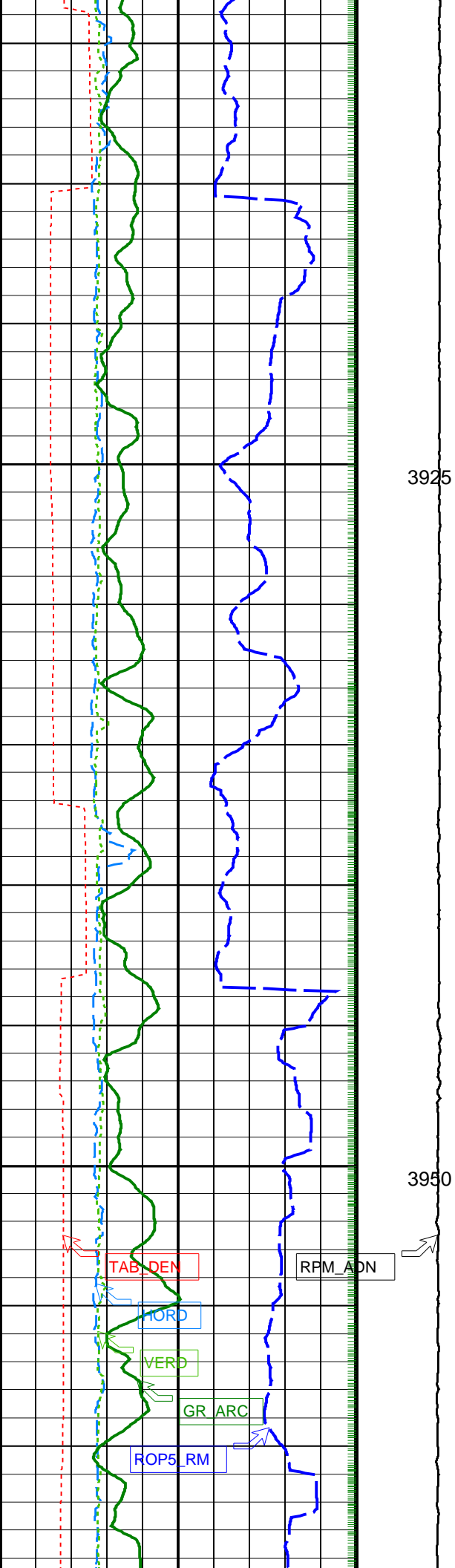


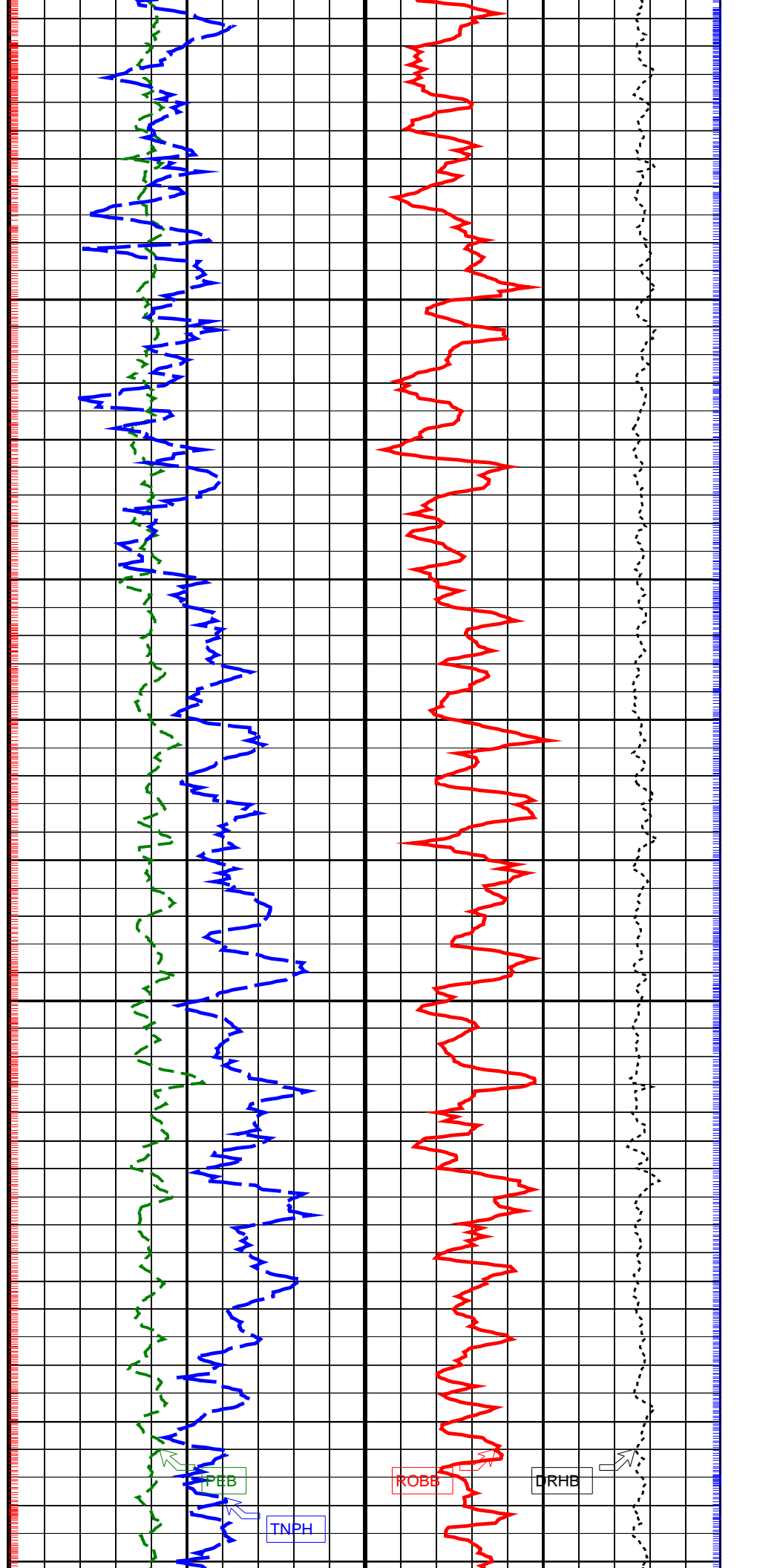
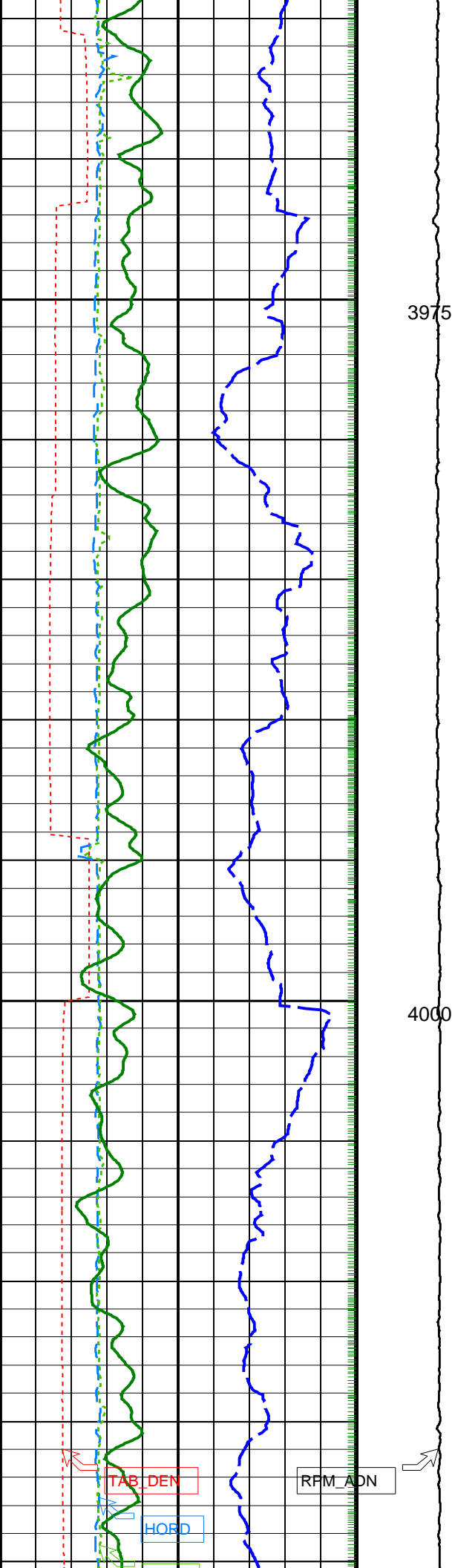


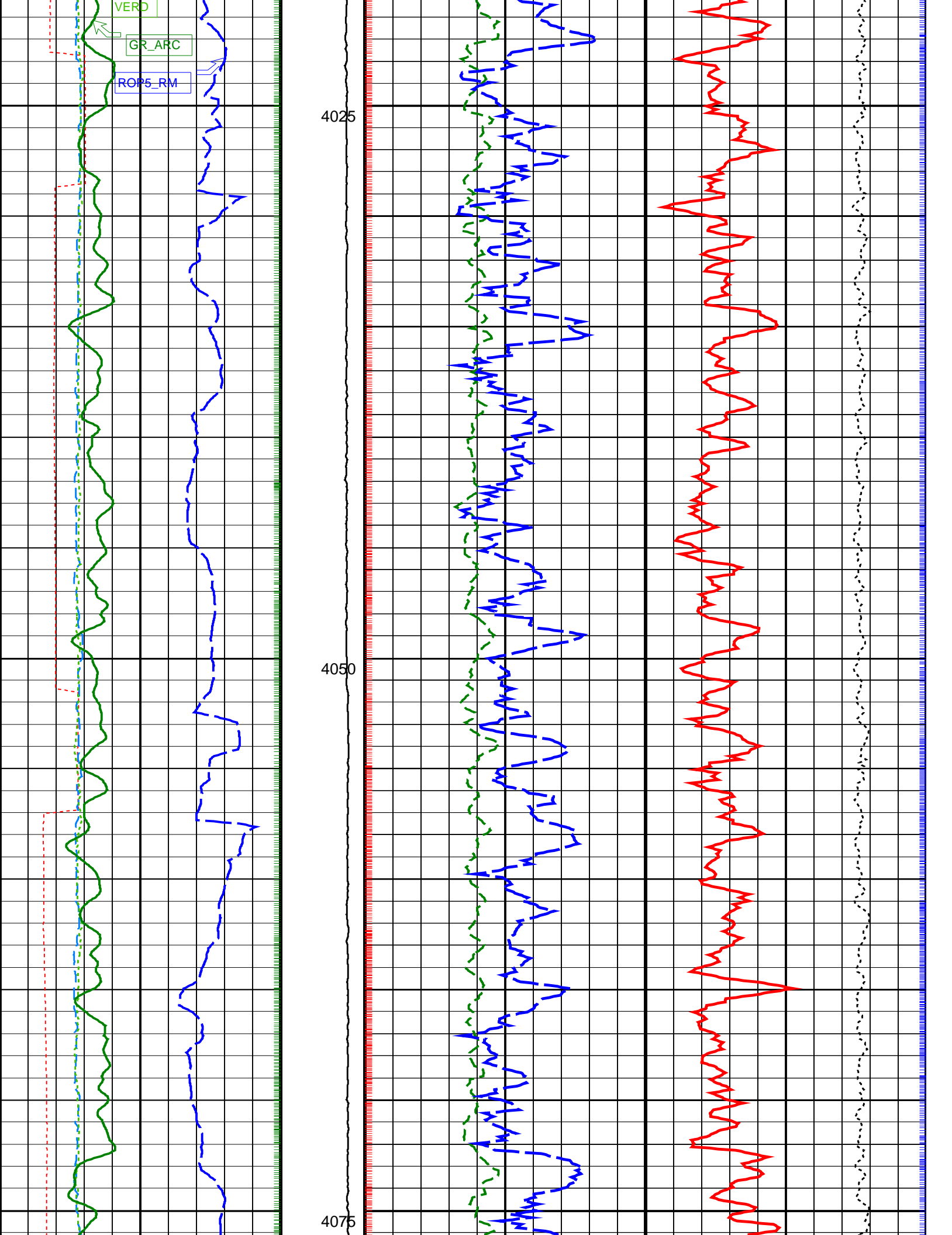


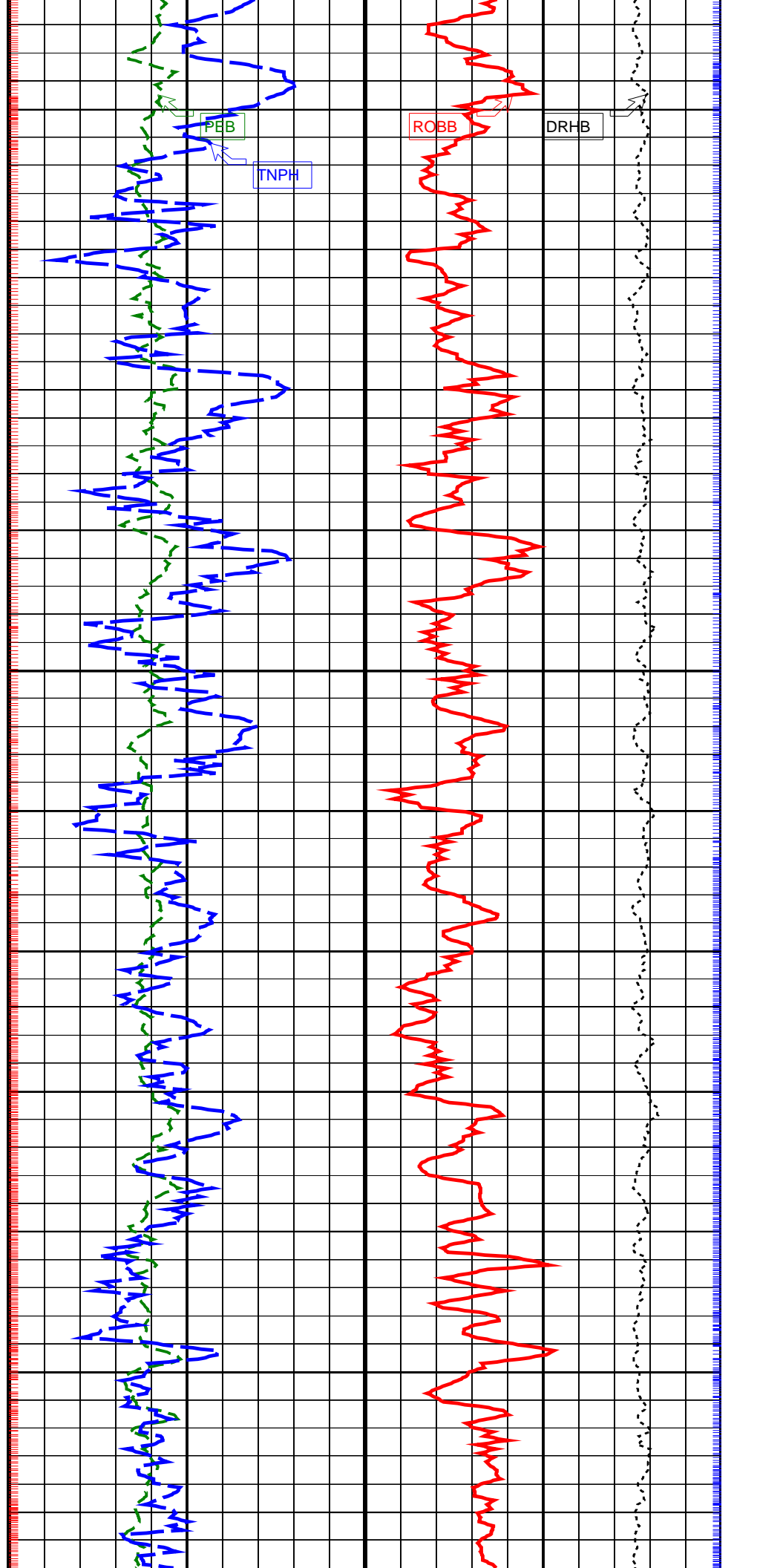
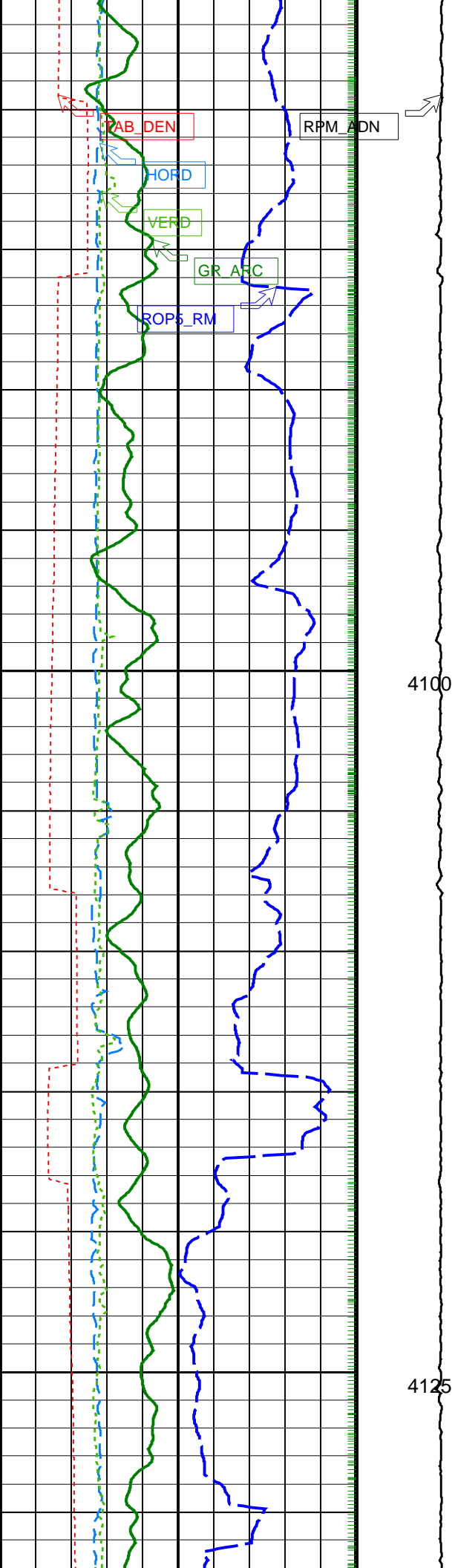


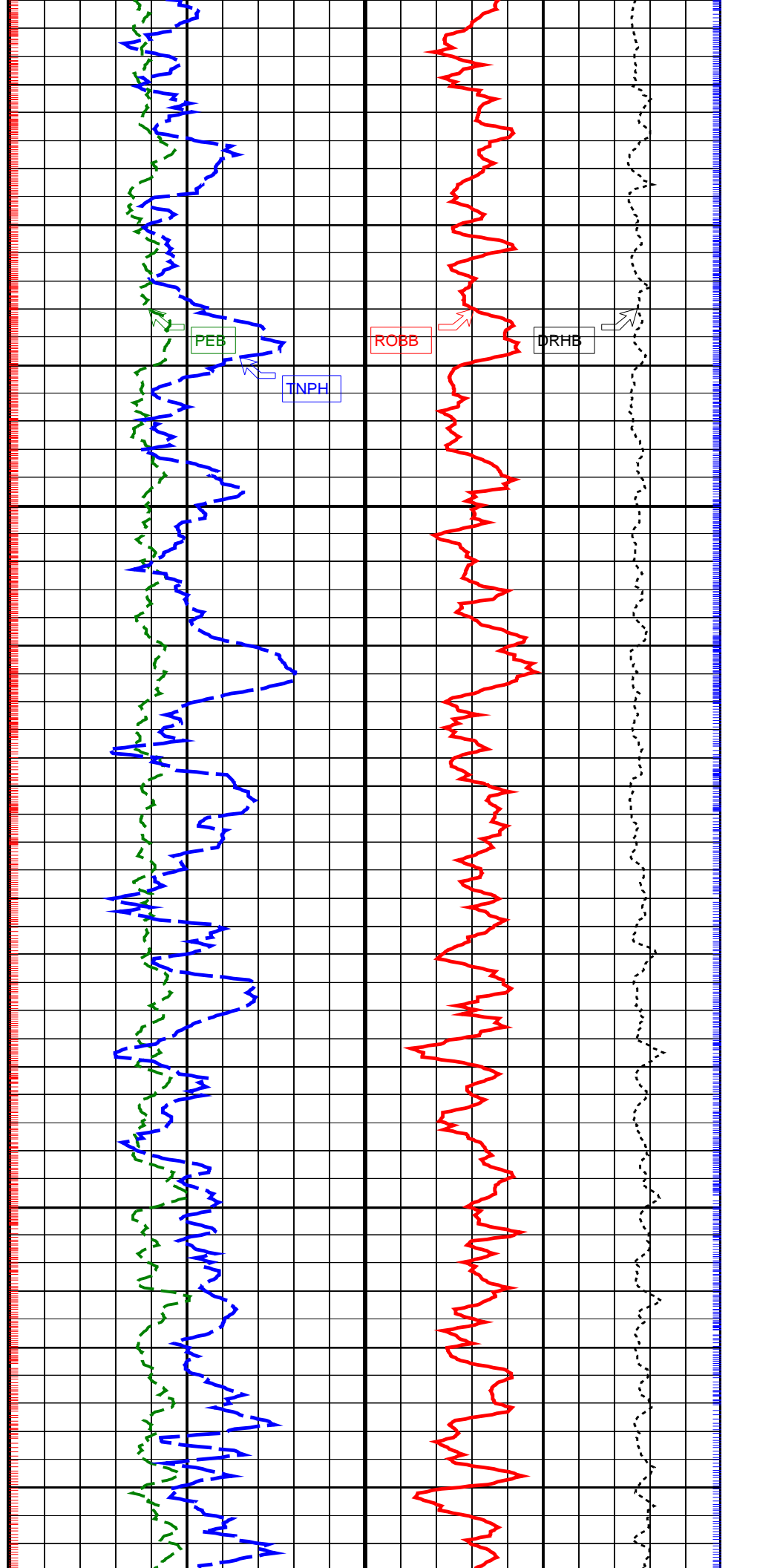
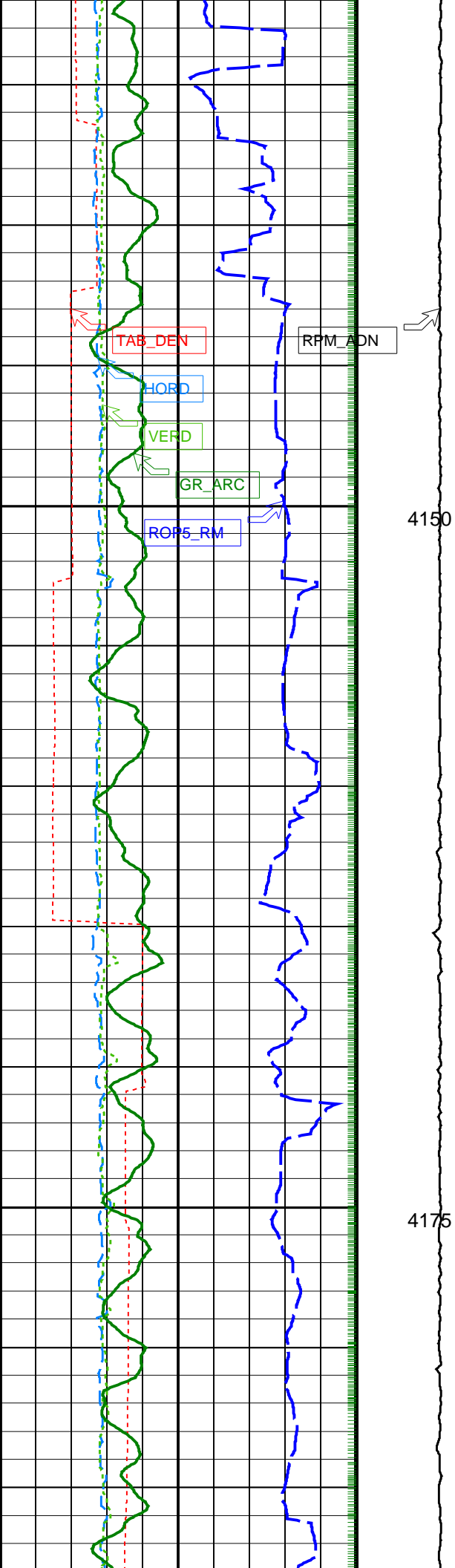


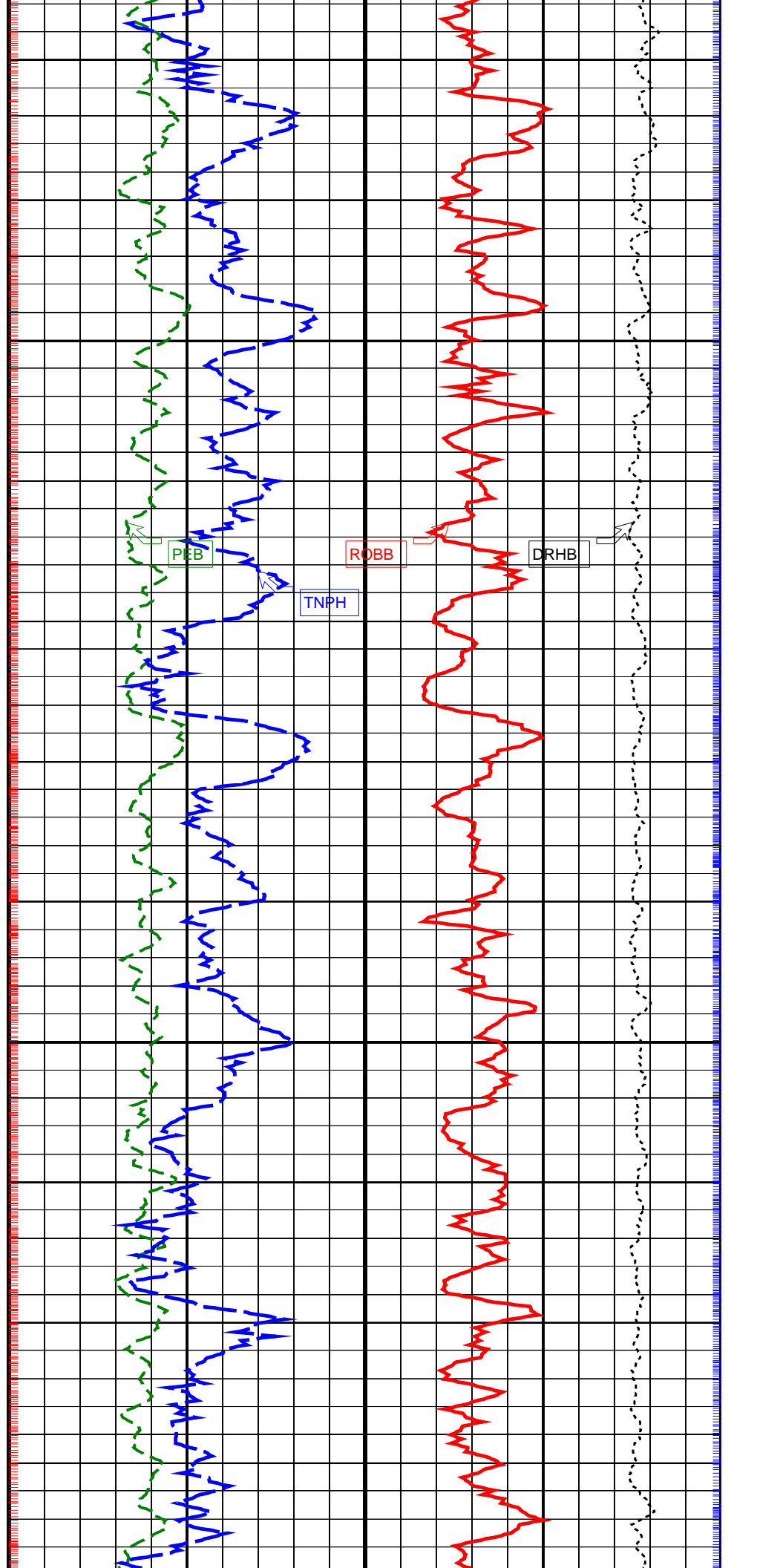
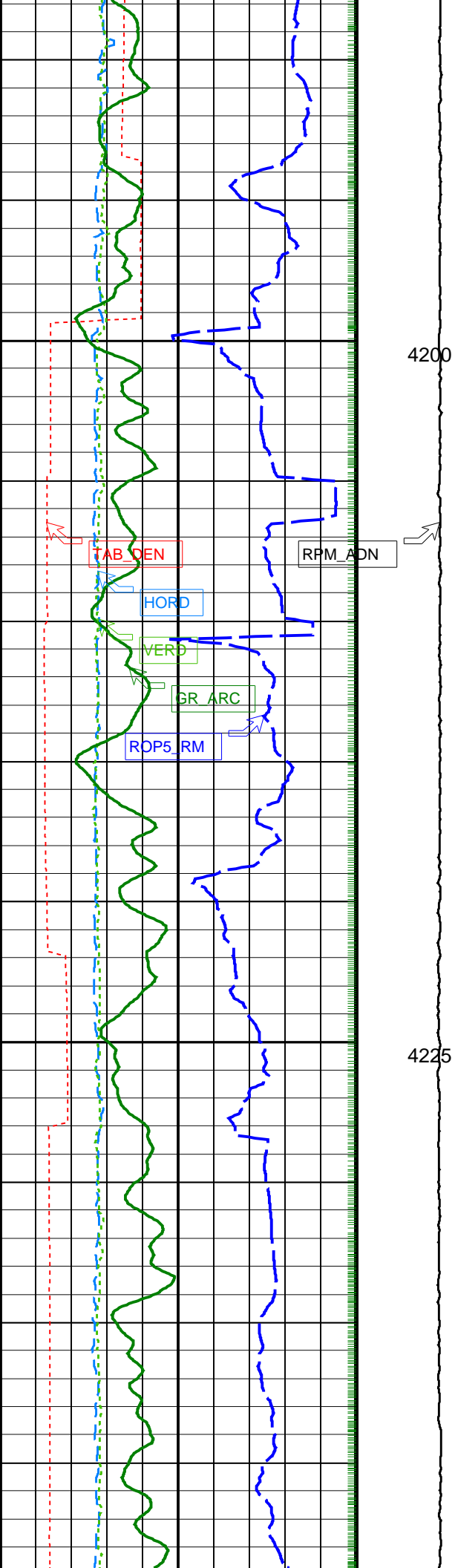


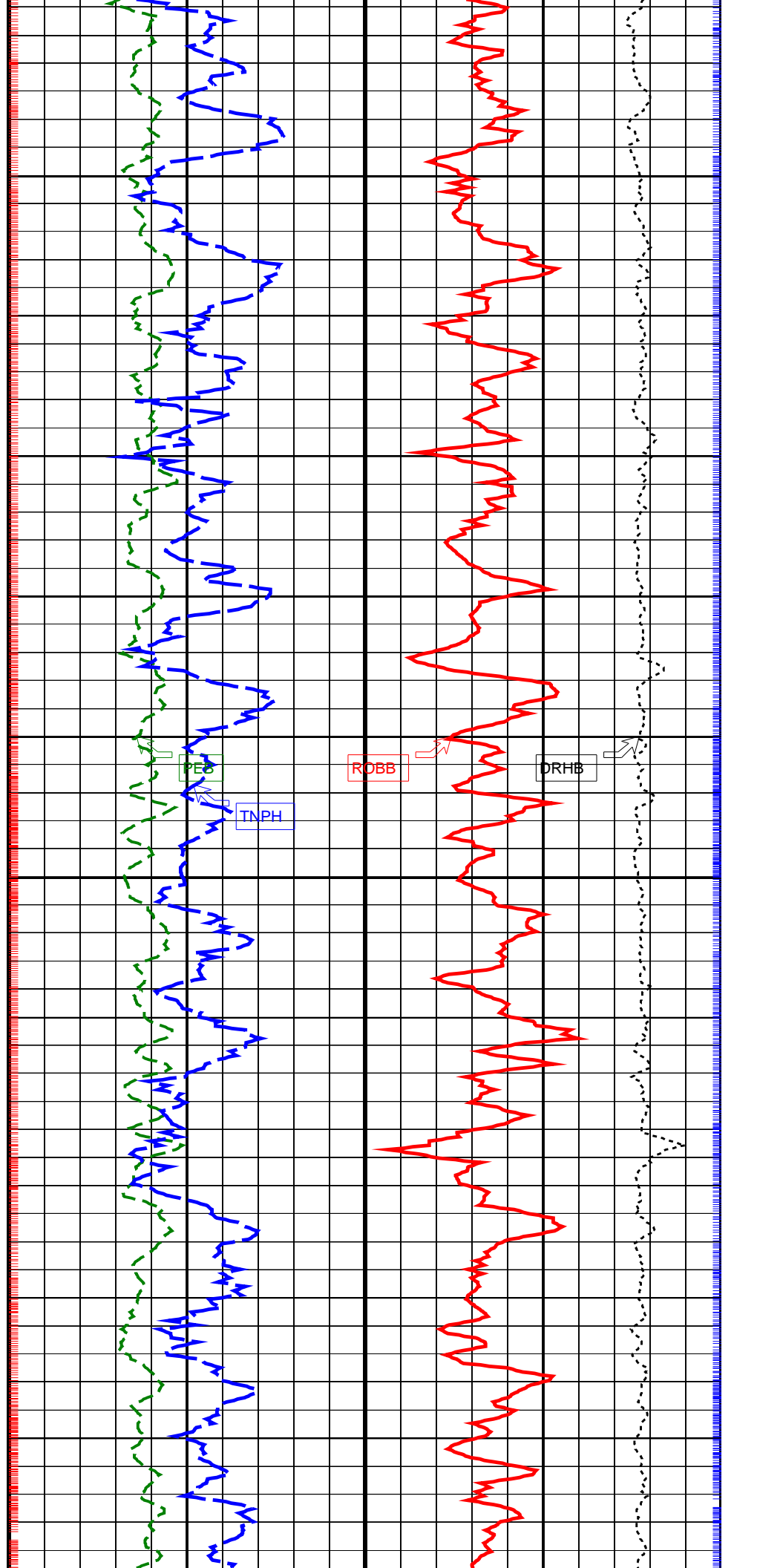
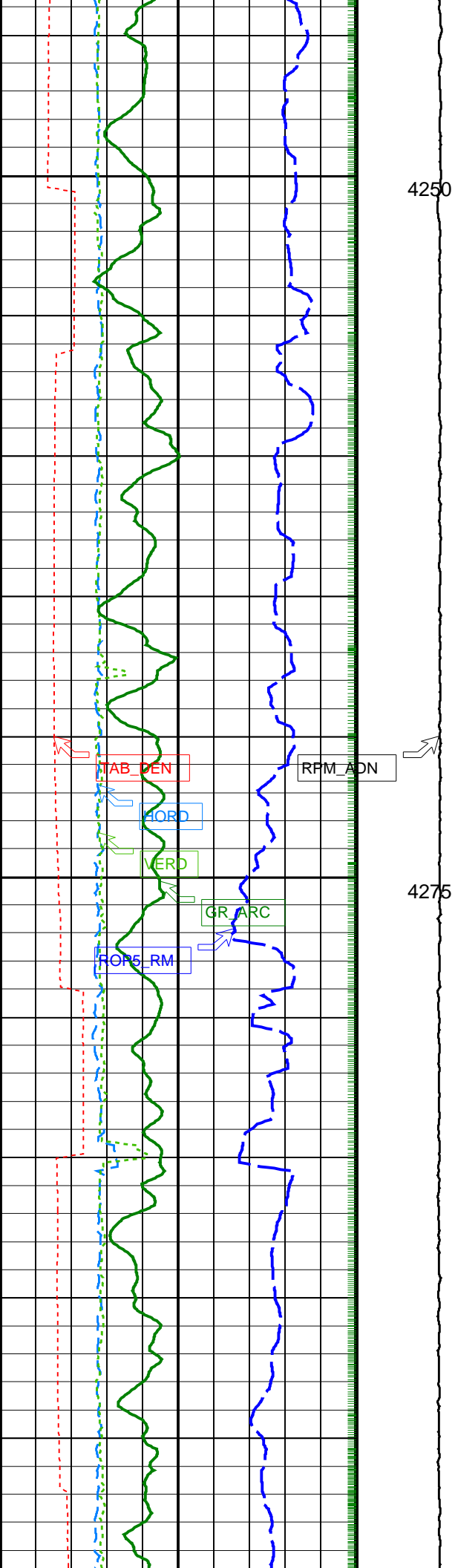


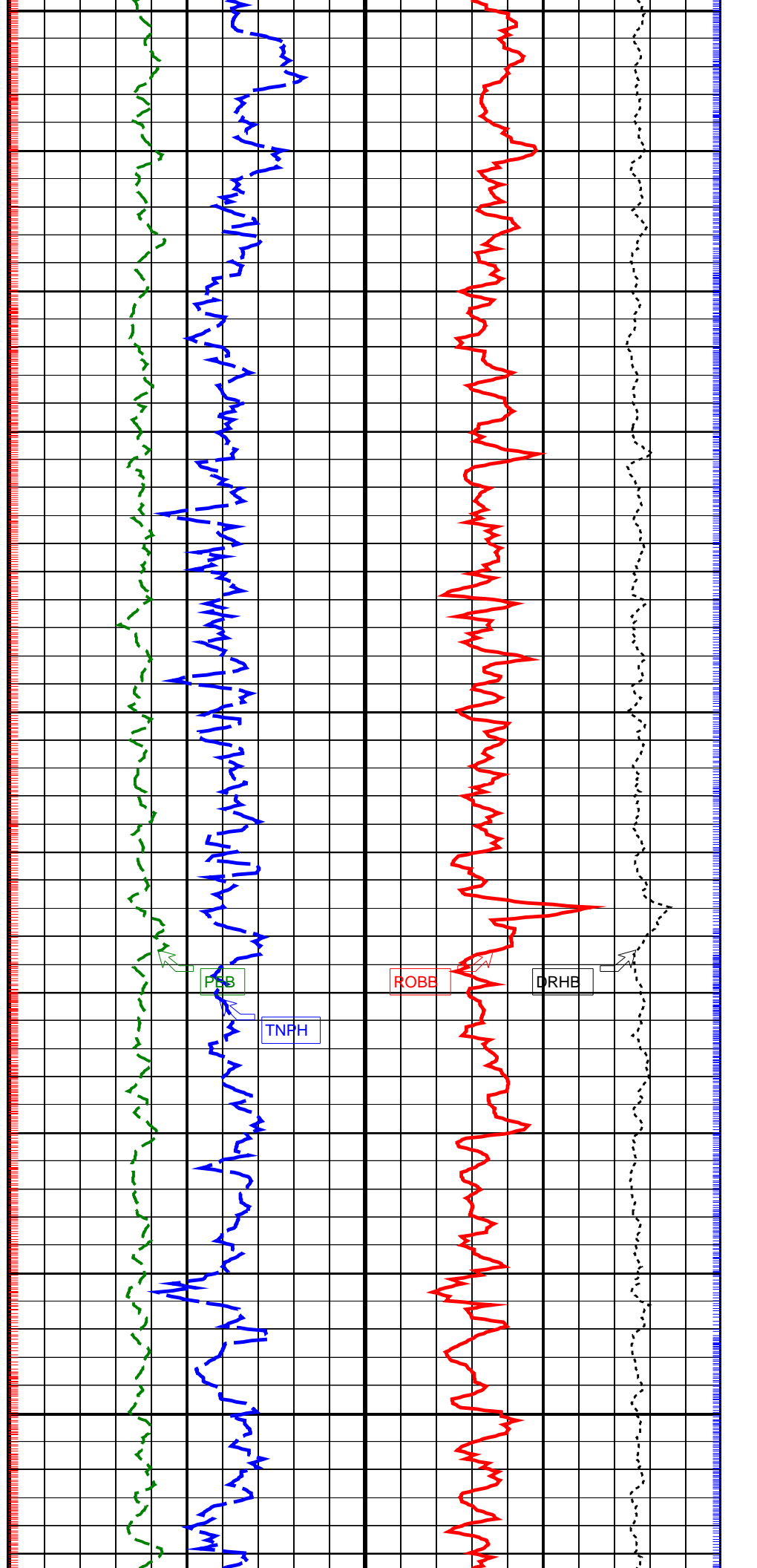
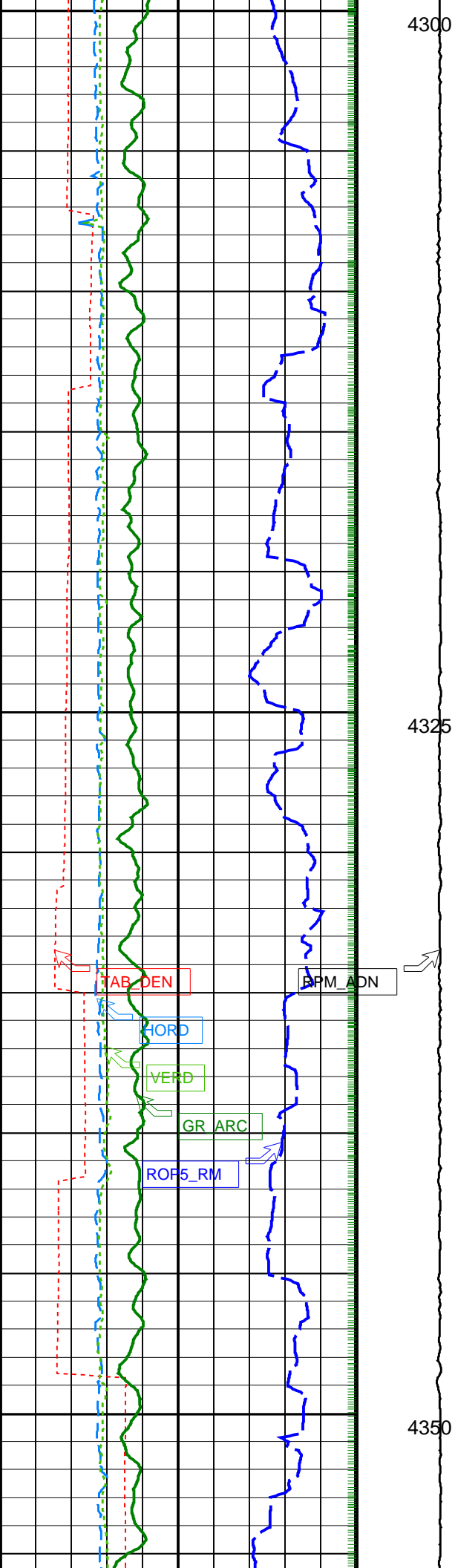


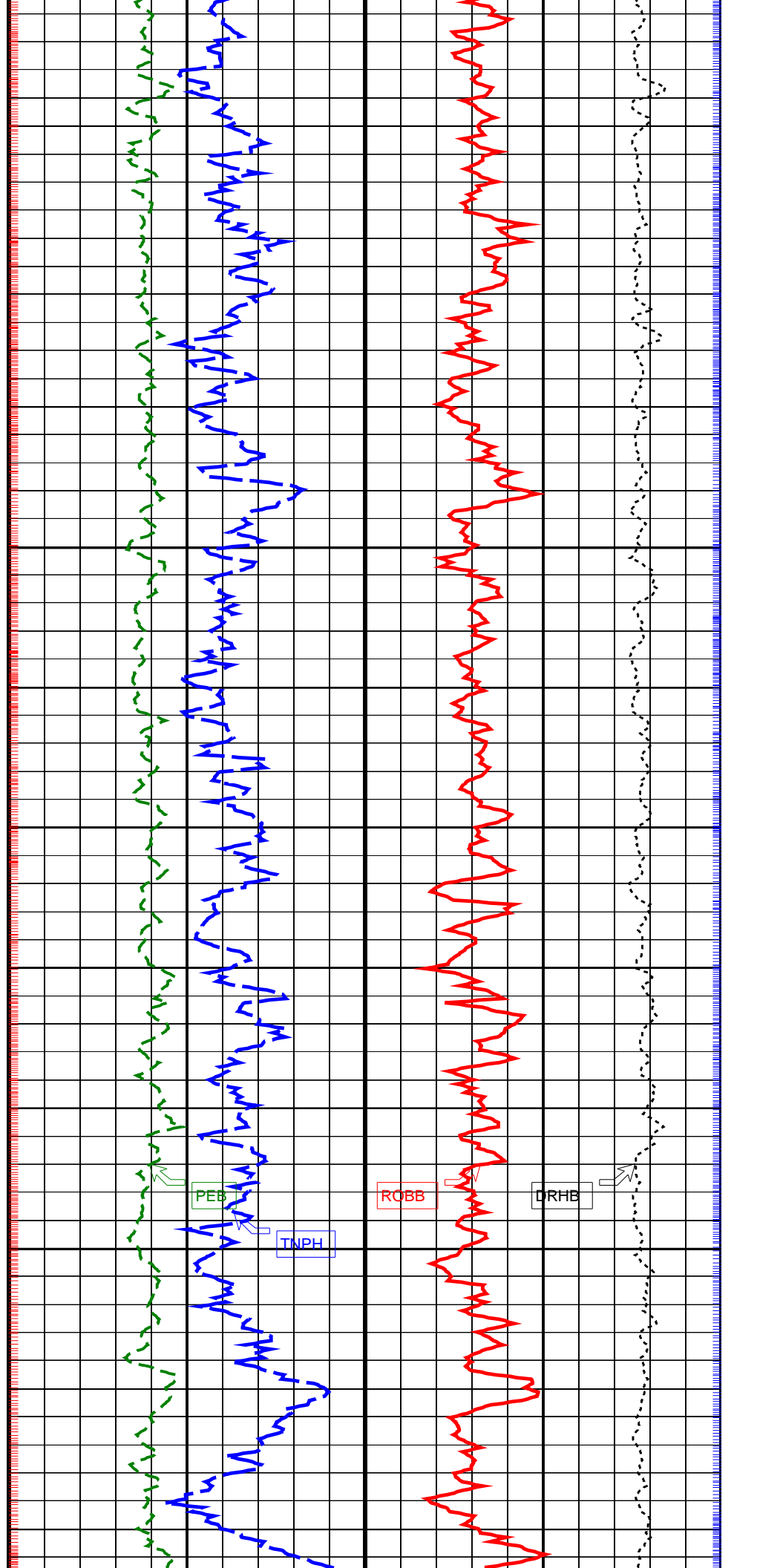
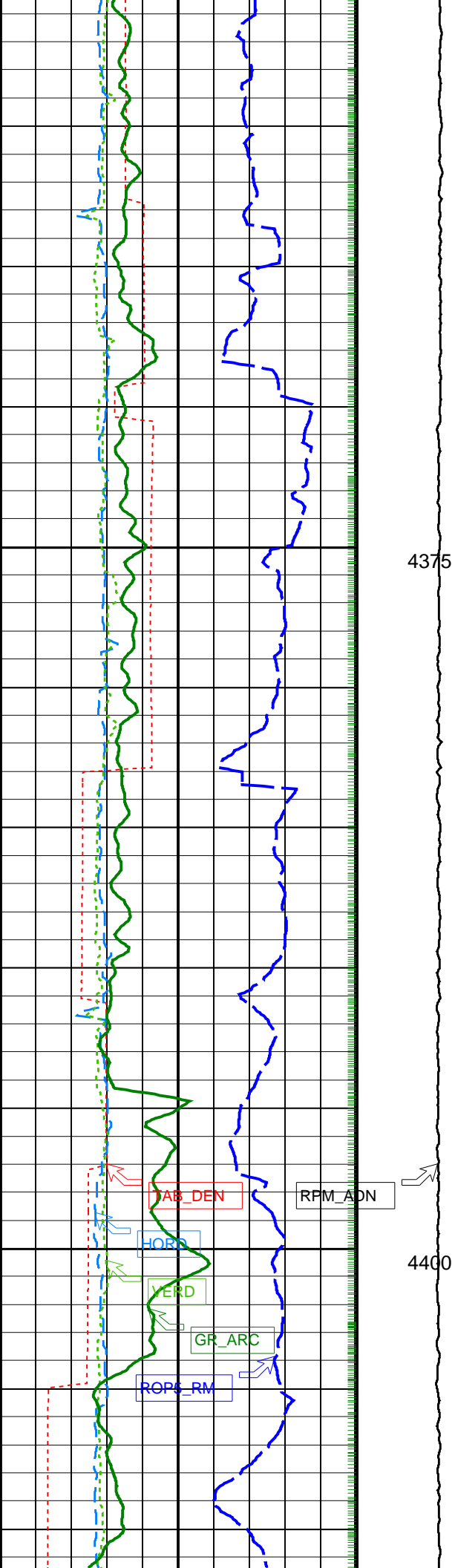


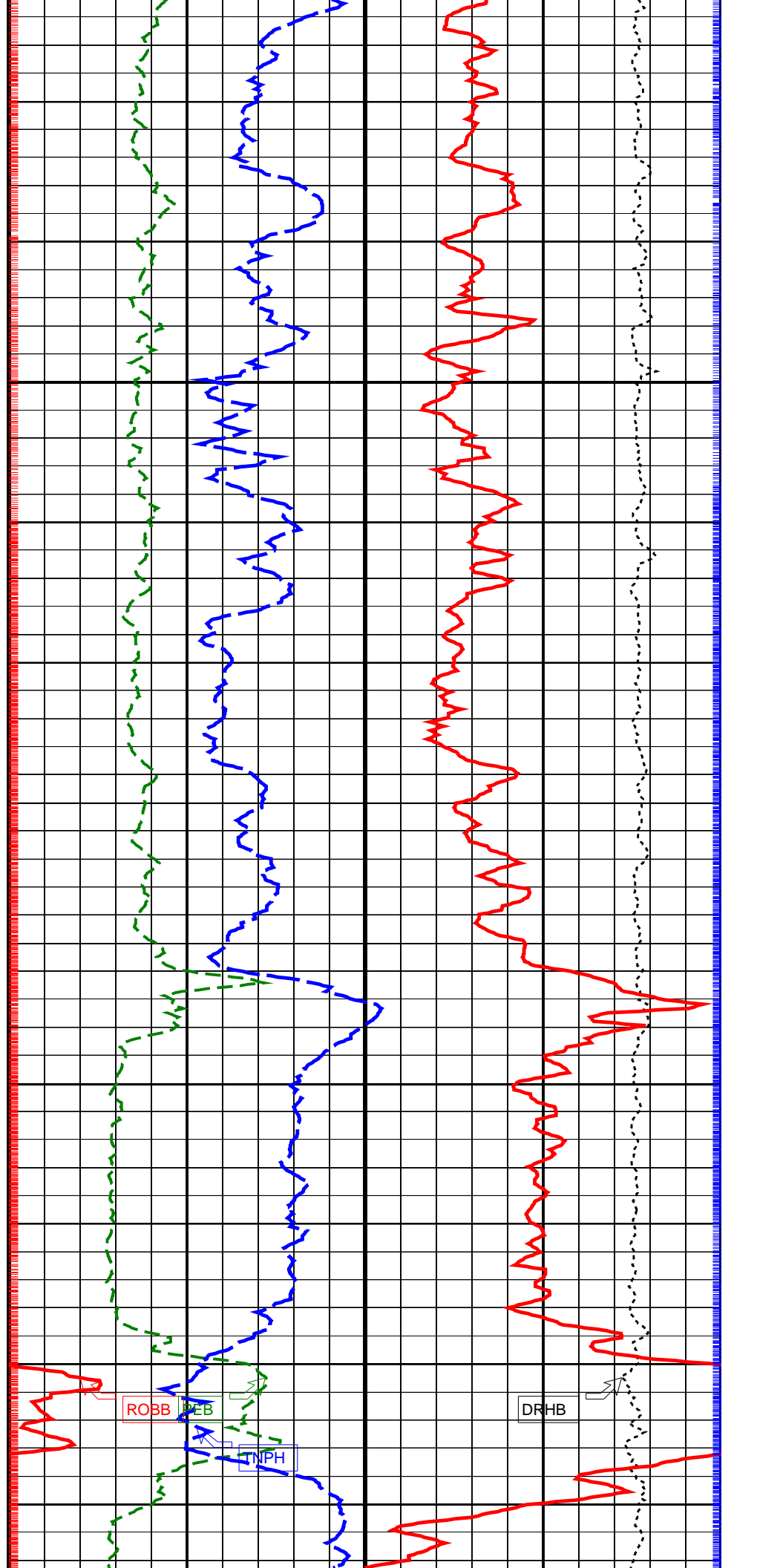
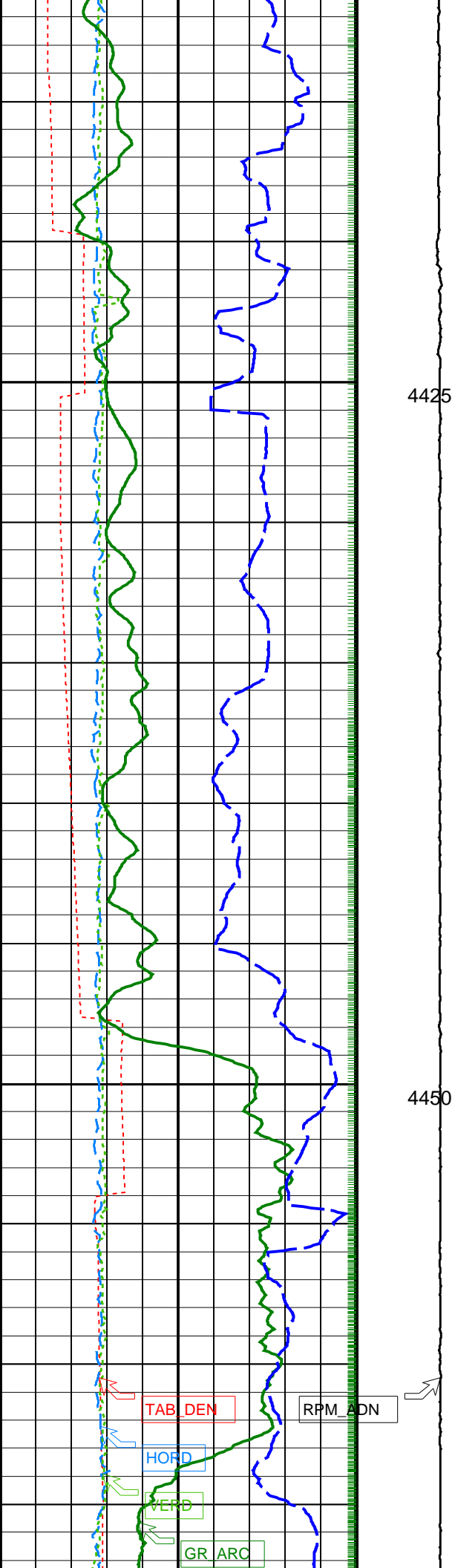


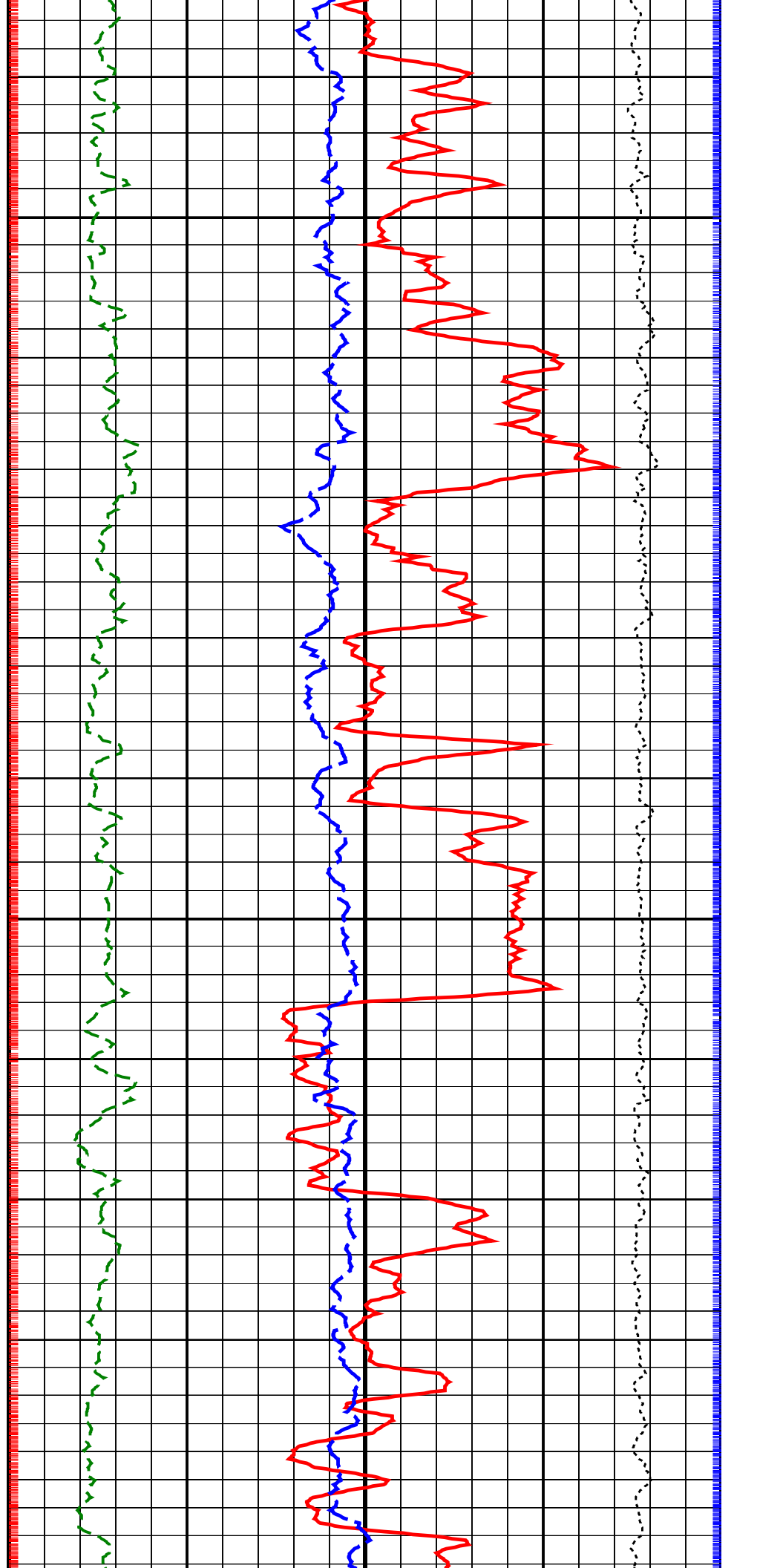
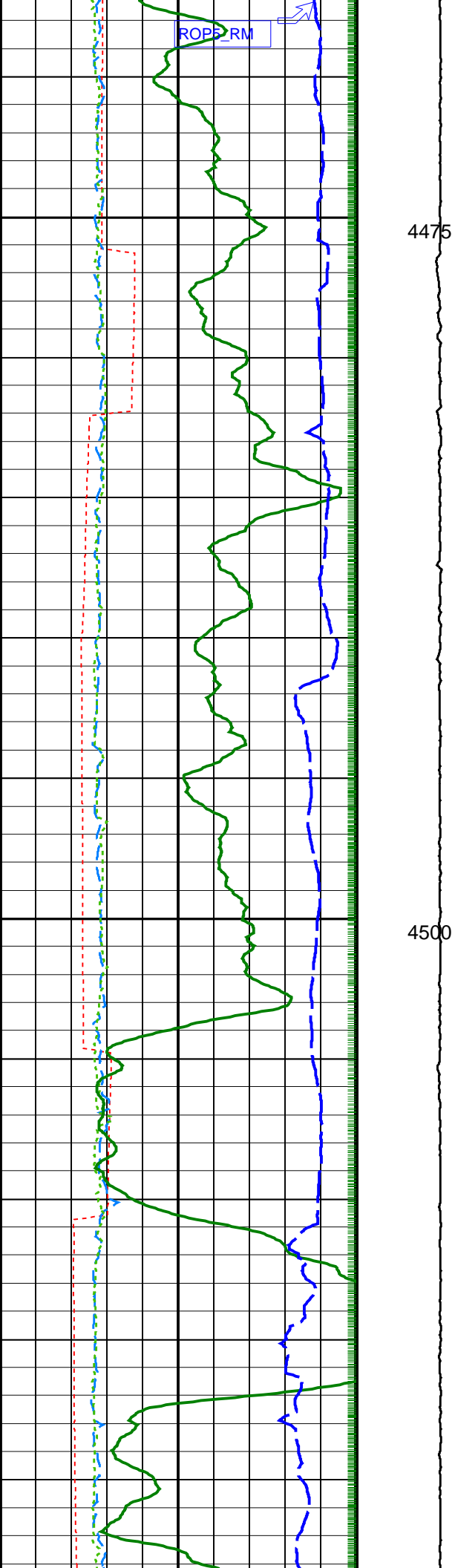


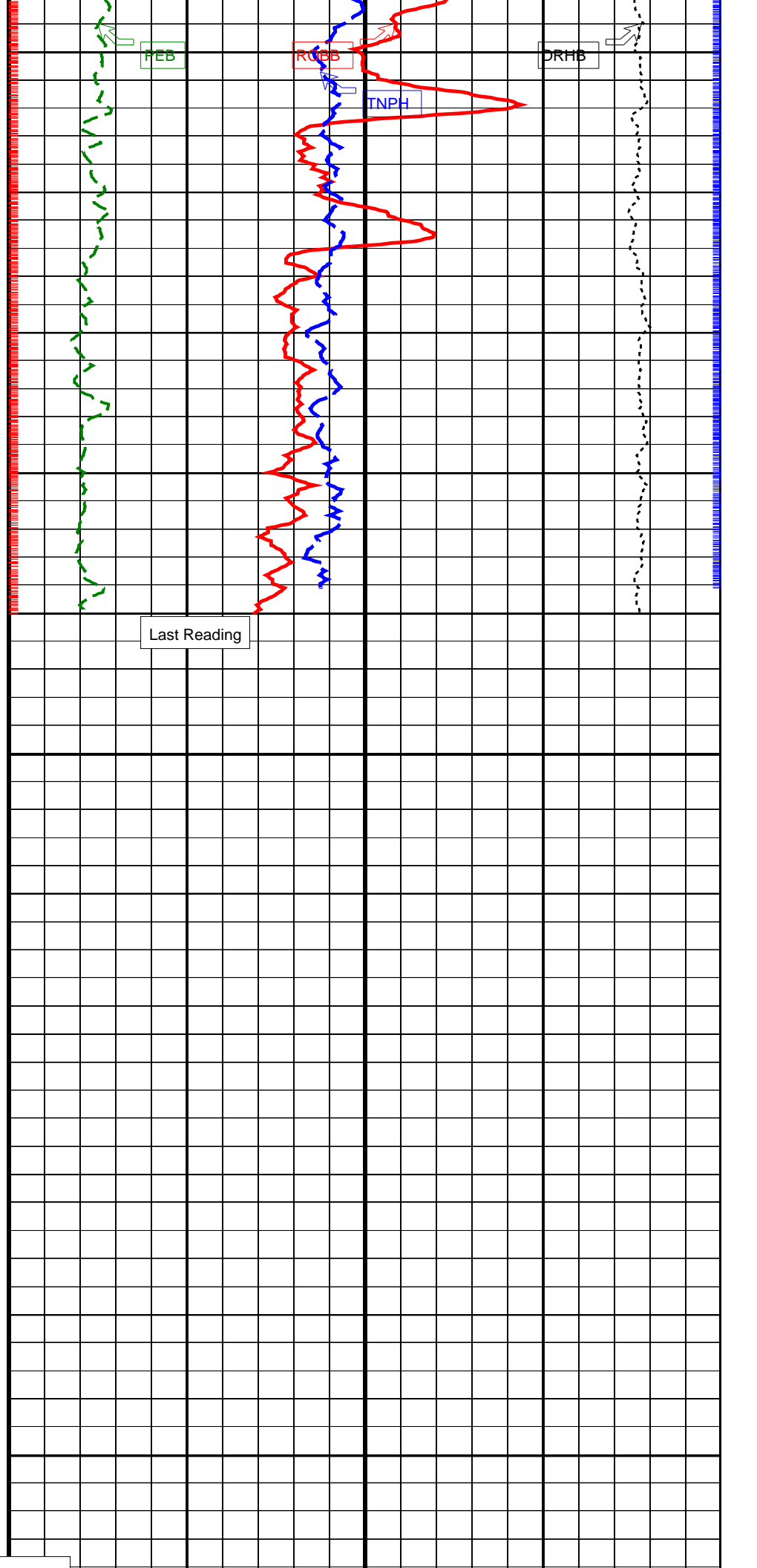
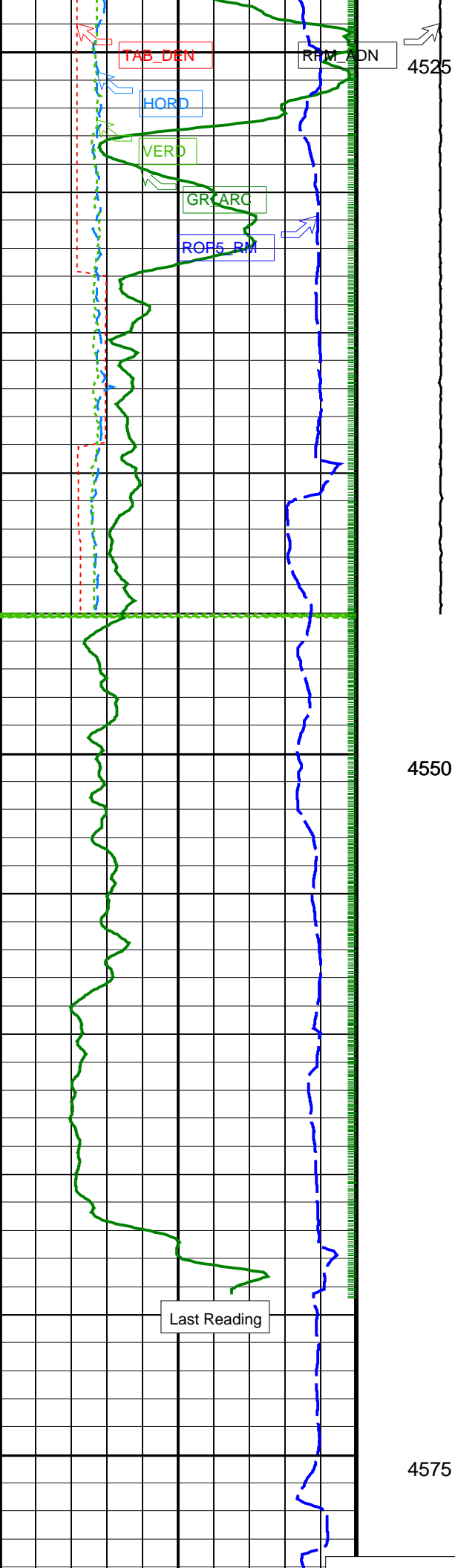





















| | | | | | | | | | |
|--|-----|-----|--|-----|--|--|---|-------|------|
| Density Time After Bit (TAB_DEN) (HR) | 0 | 10 | ADN Rotational Speed (RPM_ADN) (RPM) | 0 | 10 | Photoelectric Factor, Bottom (PEB) (-----) | Bulk Density Correction, Bottom (DRHB) (G/C3) | -0.75 | 0.25 |
| Horizontal Hole Diameter (HORD) (IN) | 6 | 16 | 0 | 250 | Bulk Density, Bottom (ROBB) (G/C3) | | | | |
| Vertical Hole Diameter (VERD) (IN) | 6 | 16 | Thermal Neutron Porosity (TNPH) (PU) | | | | | | |
| ARC Gamma Ray (GR_ARC) (GAPI) | 0 | 200 | 45 | -15 | | | | | |
| Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR) | 200 | 0 | | | | | | | |

id12_0c_01



| | |
|------------|------|
| ADN6 - CA | 373 |
| ADDC - AA | 373 |
| ADSE - EA | 373 |
| IBS | 373 |
| NSR - M | 181 |
| GSR - J/Z | 2152 |
| 8.25 - in. | |
| AUTO - | |

























| Phase | LS window 3 – Mg CPS | Value | Phase | SS window 1 – Mg CPS | Value | Phase | SS window 3 – Mg CPS | Value |
|--------|---|-------|--------|---|-------|--------|---|-------|
| Master |  | 1170 | Master |  | 2995 | Master |  | 7150 |
| | 250.0 (Minimum) 4125 (Nominal) 8000 (Maximum) | | | 700.0 (Minimum) 9350 (Nominal) 18000 (Maximum) | | | 2500 (Minimum) 23750 (Nominal) 45000 (Maximum) | |


| Phase | LS window 3 – AI | CPS | Value | Phase | SS window 1 – AI | CPS | Value | Phase | SS window 3 – AI | CPS | Value |
|--------|---|--------------------|-------------------|--------|---|-------------------|-------------------|--------|---|--------------------|--------------------|
| Master |  | | 175.1 | Master |  | | 1510 | Master |  | | 4474 |
| | 50.00 (Minimum) | 725.0 (Nominal) | 1400 (Maximum) | | 500.0 (Minimum) | 4250 (Nominal) | 8000 (Maximum) | | 1500 (Minimum) | 15750 (Nominal) | 30000 (Maximum) |

| Phase | LS window 3 – Background | | | Value | Phase | SS window 1 – Background | | | Value | Phase | SS window 3 – Background | | | Value |
|--------|---|--------------------|--------------------|-------|--------|---|--------------------|--------------------|-------|--------|--|--------------------|-------------------|-------|
| Master |  | | | 50.36 | Master |  | | | 118.4 | Master |  | | | 521.5 |
| | 15.00 (Minimum) | 82.50 (Nominal) | 150.0 (Maximum) | | | 40.00 (Minimum) | 220.0 (Nominal) | 400.0 (Maximum) | | | 150.0 (Minimum) | 825.0 (Nominal) | 1500 (Maximum) | |




| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

| Phase | Long spacing water density G/C3 | | Value | Phase | Short spacing water density G/C3 | | Value |
|--------------------|---|--------------------|--------------------|--------------------|---|--------------------|--------------------|
| Master |  | | 1.034 | Master |  | | 1.135 |
| 1.024 (Minimum) | | 1.039 (Nominal) | 1.054 (Maximum) | 1.096 (Minimum) | | 1.126 (Nominal) | 1.156 (Maximum) |

| | | | | | | | | | | | | | | |
|--|--------------------|---|--------------------|-------|--------|--------------------|---|--------------------|-------|--------|--------------------|---|--------------------|-------|
| Master: 7-Apr-2007 23:15 | | | | | | | | | | | | | | |
| 6.75-in. Azimuthal Density Neutron Calibration | | | | | | | | | | | | | | |
| Neutron: 3-Point Calibration | | | | | | | | | | | | | | |
| Phase | Far 1 tube 1 | Air Point Measure | CPS | Value | Phase | Far 1 tube 1 | Rod Point Measure | CPS | Value | Phase | Far 1 tube 1 | H2O Point Measure | CPS | Value |
| Master | |  | | 17.98 | Master | |  | | 4.352 | Master | |  | | 2.159 |
| | 13.30 (Minimum) | 19.05 (Nominal) | 24.70 (Maximum) | | | 3.400 (Minimum) | 4.857 (Nominal) | 6.200 (Maximum) | | | 1.600 (Minimum) | 2.363 (Nominal) | 3.100 (Maximum) | |
| Phase | Far 1 tube 2 | Air Point Measure | CPS | Value | Phase | Far 1 tube 2 | Rod Point Measure | CPS | Value | Phase | Far 1 tube 2 | H2O Point Measure | CPS | Value |
| Master | |  | | 18.95 | Master | |  | | 4.568 | Master | |  | | 2.222 |
| | 13.30 (Minimum) | 19.05 (Nominal) | 24.70 (Maximum) | | | 3.400 (Minimum) | 4.857 (Nominal) | 6.200 (Maximum) | | | 1.600 (Minimum) | 2.363 (Nominal) | 3.100 (Maximum) | |
| Phase | Far 1 tube 3 | Air Point Measure | CPS | Value | Phase | Far 1 tube 3 | Rod Point Measure | CPS | Value | Phase | Far 1 tube 3 | H2O Point Measure | CPS | Value |
| Master | |  | | 17.47 | Master | |  | | 4.318 | Master | |  | | 2.099 |
| | 13.30 (Minimum) | 19.05 (Nominal) | 24.70 (Maximum) | | | 3.400 (Minimum) | 4.857 (Nominal) | 6.200 (Maximum) | | | 1.600 (Minimum) | 2.363 (Nominal) | 3.100 (Maximum) | |
| Phase | Far 2 tube 1 | Air Point Measure | CPS | Value | Phase | Far 2 tube 1 | Rod Point Measure | CPS | Value | Phase | Far 2 tube 1 | H2O Point Measure | CPS | Value |
| Master | |  | | 17.45 | Master | |  | | 4.605 | Master | |  | | 2.323 |
| | 13.30 (Minimum) | 19.05 (Nominal) | 24.70 (Maximum) | | | 3.400 (Minimum) | 4.857 (Nominal) | 6.200 (Maximum) | | | 1.600 (Minimum) | 2.363 (Nominal) | 3.100 (Maximum) | |
| Phase | Far 2 tube 2 | Air Point Measure | CPS | Value | Phase | Far 2 tube 2 | Rod Point Measure | CPS | Value | Phase | Far 2 tube 2 | H2O Point Measure | CPS | Value |
| Master | |  | | 18.74 | Master | |  | | 4.641 | Master | |  | | 2.249 |
| | 13.30 (Minimum) | 19.05 (Nominal) | 24.70 (Maximum) | | | 3.400 (Minimum) | 4.857 (Nominal) | 6.200 (Maximum) | | | 1.600 (Minimum) | 2.363 (Nominal) | 3.100 (Maximum) | |
| Phase | Far 2 tube 3 | Air Point Measure | CPS | Value | Phase | Far 2 tube 3 | Rod Point Measure | CPS | Value | Phase | Far 2 tube 3 | H2O Point Measure | CPS | Value |
| Master | |  | | 17.85 | Master | |  | | 4.363 | Master | |  | | 2.162 |
| | 13.30 (Minimum) | 19.05 (Nominal) | 24.70 (Maximum) | | | 3.400 (Minimum) | 4.857 (Nominal) | 6.200 (Maximum) | | | 1.600 (Minimum) | 2.363 (Nominal) | 3.100 (Maximum) | |
| Phase | Near 1 tube 1 | Air Point Measure | CPS | Value | Phase | Near 1 tube 1 | Rod Point Measure | CPS | Value | Phase | Near 1 tube 1 | H2O Point Measure | CPS | Value |
| Master | |  | | 484.3 | Master | |  | | 768.4 | Master | |  | | 341.6 |
| | 345.0 (Minimum) | 487.5 (Nominal) | 595.0 (Maximum) | | | 535.0 (Minimum) | 768.8 (Nominal) | 925.0 (Maximum) | | | 230.0 (Minimum) | 343.7 (Nominal) | 430.0 (Maximum) | |
| Phase | Near 2 tube 1 | Air Point Measure | CPS | Value | Phase | Near 2 tube 1 | Rod Point Measure | CPS | Value | Phase | Near 2 tube 1 | H2O Point Measure | CPS | Value |
| Master | |  | | 493.2 | Master | |  | | 766.0 | Master | |  | | 343.2 |
| | 345.0 (Minimum) | 487.5 (Nominal) | 595.0 (Maximum) | | | 535.0 (Minimum) | 768.8 (Nominal) | 925.0 (Maximum) | | | 230.0 (Minimum) | 343.7 (Nominal) | 430.0 (Maximum) | |

| Master: 7-Apr-2007 23:15 | | | | | | | | | |
|--|---|--------------------|--|--|--------------------|--|--|-------|--|
| 6.75-in. Azimuthal Density Neutron Calibration | | | | | | | | | |
| Neutron: Water Block Check | | | | | | | | | |
| Phase | Far Neutron water porosity PU | | | | | | | Value | |
| Master |  | | | | | | | 93.95 | |
| 90.00 (Minimum) | | 100.0 (Nominal) | | | 125.0 (Maximum) | | | | |

| | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| 6.75-in. Array Resistivity Compensated / Equipment Identification | | | | | | | | | |
| Primary Equipment: | | | | | | | | | |
| Tool Name and Serial Number | | | | | | | | | |
| ARC675 Calibration Status | | | | | | | | | |
| ARC6 – BA | | | | | | | | | |
| 460 | | | | | | | | | |
| AUTO – | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|--|---|--|--|--------|--------|---|--|--|---------|--------|---|--------|--|--------|--|--------|-------|
| Master: 8-Apr-2007 12:47 | | | | | | | | | | | | | | | | | |
| 6.75-in. Array Resistivity Compensated Calibration | | | | | | | | | | | | | | | | | |
| Resistivity: Air | | | | | | | | | | | | | | | | | |
| Phase | Phase-Shift T1 | | | Value | Phase | Phase-Shift T2 | | | Value | Phase | Phase-Shift T3 | | | Value | | | |
| Master |  | | | 0.9015 | Master |  | | | -0.8477 | Master |  | | | 0.8182 | | | |
| -3.900 | | | | 0.1000 | 4.100 | -3.900 | | | | 0.1000 | 4.100 | -3.900 | | | | 0.1000 | 4.100 |

| (Minimum) | (Nominal) | (Maximum) | (Minimum) | (Nominal) | (Maximum) | (Minimum) | (Nominal) | (Maximum) | | | |
|---------------------|--------------------------|--------------------|-----------|---------------------|--------------------------|--------------------|-----------|---------------------|--------------------------|--------------------|---------|
| Phase | Phase-Shift T4 | | Value | Phase | Phase-Shift T5 | | Value | Phase | Phase-Shift T1 at 400KHz | | Value |
| Master | | | -0.8919 | Master | | | 0.8005 | Master | | | -0.3121 |
| -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | | -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | | -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | |
| Phase | Phase-Shift T2 at 400KHz | | Value | Phase | Phase-Shift T3 at 400KHz | | Value | Phase | Phase-Shift T4 at 400KHz | | Value |
| Master | | | 0.3061 | Master | | | -0.2984 | Master | | | 0.2904 |
| -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | | -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | | -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | |
| Phase | Phase-Shift T5 at 400KHz | | Value | | | | | | | | |
| Master | | | -0.3169 | | | | | | | | |
| -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | | | | | | | | | |

| Master: 8-Apr-2007 12:47 | | | | | | | | | | | |
|--|--------------------------|--------------------|--------------------|--------|--------------------------|--------------------|--------------------|--------|--------------------------|--------------------|--------------------|
| 6.75-in. Array Resistivity Compensated Calibration | | | | | | | | | | | |
| Resistivity: Air | | | | | | | | | | | |
| Phase | Attenuation T1 | | Value | Phase | Attenuation T2 | | Value | Phase | Attenuation T3 | | Value |
| Master | | | 9.000 | Master | | | 5.945 | Master | | | 5.635 |
| | 6.500 (Minimum) | 8.500 (Nominal) | 10.50 (Maximum) | | 4.500 (Minimum) | 6.500 (Nominal) | 8.500 (Maximum) | | 2.500 (Minimum) | 4.500 (Nominal) | 6.500 (Maximum) |
| Phase | Attenuation T4 | | Value | Phase | Attenuation T5 | | Value | Phase | Attenuation T1 at 400KHz | | Value |
| Master | | | 3.857 | Master | | | 4.191 | Master | | | 8.990 |
| | 2.600 (Minimum) | 4.600 (Nominal) | 6.600 (Maximum) | | 1.600 (Minimum) | 3.600 (Nominal) | 5.600 (Maximum) | | 6.500 (Minimum) | 8.500 (Nominal) | 10.50 (Maximum) |
| Phase | Attenuation T2 at 400KHz | | Value | Phase | Attenuation T3 at 400KHz | | Value | Phase | Attenuation T4 at 400KHz | | Value |
| Master | | | 5.961 | Master | | | 5.614 | Master | | | 3.867 |
| | 4.500 (Minimum) | 6.500 (Nominal) | 8.500 (Maximum) | | 2.500 (Minimum) | 4.500 (Nominal) | 6.500 (Maximum) | | 2.600 (Minimum) | 4.600 (Nominal) | 6.600 (Maximum) |
| Phase | Attenuation T5 at 400KHz | | Value | | | | | | | | |
| Master | | | 4.181 | | | | | | | | |
| | 1.600 (Minimum) | 3.600 (Nominal) | 5.600 (Maximum) | | | | | | | | |

| Master: 8-Apr-2007 11:56 | | | | | | | | | | | |
|--|--|--|--------------------|--|--------------------|--|--|--|--|--|-------|
| 6.75-in. Array Resistivity Compensated Calibration | | | | | | | | | | | |
| Gamma Ray: Blanket | | | | | | | | | | | |
| Phase | Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS | | | | | | | | | | Value |
| Master | | | | | | | | | | | 5.041 |
| | 2.780 (Minimum) | | 4.800 (Nominal) | | 6.000 (Maximum) | | | | | | |

| | | | |
|--|--|------------------------------------|-------------|
| SCHLUMBERGER | | | |
| Survey report | | 25-May-2007 06:52:57 | Page 1 of 4 |
| Client.....: ESSO Australia Pty Ltd | | | |
| Field.....: Fortescue | | | |
| Well.....: FTA A10A | | Spud date.....: 14 May 07 | |
| Service number.....: 07ASQ0015 | | Last survey date.....: 25-May-07 | |
| Engineer.....: C Skiba, M, Amarasena, A. Kohli | | Total accepted surveys...: 73 | |
| RIG.....: ISDL 175 | | MD of first survey.....: 2780.00 m | |
| STATE.....: Victoria | | MD of last survey.....: 4580.00 m | |
| ----- Survey calculation methods----- | | | |
| Method for positions.....: Minimum curvature | | | |
| Method for DLS.....: Mason & Taylor | | | |
| ----- Depth reference ----- | | | |
| Permanent datum.....: Mean Sea Level | | | |
| Depth reference.....: Driller's Depth | | | |
| GL above permanent.....: -69.00 m | | | |
| KB above permanent.....: Top Drive | | | |
| DF above permanent.....: 42.50 m | | | |
| ----- Vertical section origin----- | | | |
| Latitude (+N/S-).....: -1.90 m | | | |
| Departure (+E/W-).....: 4.37 m | | | |
| ----- Platform reference point----- | | | |
| Latitude (+N/S-).....: 5748242.460 m | | | |
| Departure (+E/W-).....: 611592.480 m | | | |
| ----- Geomagnetic data ----- | | | |
| Magnetic model.....: BGGM version 2006 | | | |
| Magnetic date.....: 11-May-2007 | | | |
| Magnetic field strength...: 1199.27 HCNT | | | |
| Magnetic dec (+E/W-).....: 13.21 degrees | | | |
| Magnetic dip.....: -68.87 degrees | | | |
| ----- MWD survey Reference Criteria ----- | | | |
| Reference G.....: 1000.04 mGal | | | |
| Reference H.....: 1199.27 HCNT | | | |
| Reference Dip.....: -68.87 degrees | | | |
| Tolerance of G.....: (+/-) 2.50 mGal | | | |
| Tolerance of H.....: (+/-) 6.00 HCNT | | | |
| Tolerance of Dip.....: (+/-) 0.45 degrees | | | |
| ----- Corrections ----- | | | |
| Magnetic dec (+E/W-).....: 13.21 degrees | | | |
| Grid convergence (+E/W-)..: -0.79 degrees | | | |
| Total az corr (+E/W-).....: 14.00 degrees | | | |

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SCHLUMBERGER Survey Report

25-May-2007 06:52:57

Page 2 of 4

| Seq # - | Measured depth (m) | Incl angle (deg) | Azimuth angle (deg) | Course length (m) | TVD depth (m) | Vertical section (m) | Displ +N/S- (m) | Displ +E/W- (m) | Total displ (m) | At Azim (deg) | DLS (deg/ 100f) | Srvy tool type | Tool Corr (deg) |
|---------------|--------------------------|------------------------|---------------------------|-------------------------|---------------------|----------------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|
| 1 | 2780.00 | 56.52 | 353.72 | 0.00 | 1766.63 | 1943.23 | 1862.19 | -588.22 | 1952.88 | 342.47 | 0.00 | TIP | None |
| 2 | 2785.87 | 57.44 | 353.32 | 5.87 | 1769.83 | 1948.13 | 1867.08 | -588.78 | 1957.71 | 342.50 | 5.08 | GYR | None |
| 3 | 2790.04 | 56.64 | 353.81 | 4.17 | 1772.10 | 1951.62 | 1870.56 | -589.17 | 1961.15 | 342.52 | 6.57 | GYR | None |
| 4 | 2795.49 | 55.75 | 354.30 | 5.45 | 1775.13 | 1956.13 | 1875.06 | -589.64 | 1965.59 | 342.54 | 5.47 | GYR | None |
| 5 | 2800.94 | 54.98 | 354.40 | 5.45 | 1778.23 | 1960.59 | 1879.52 | -590.08 | 1969.97 | 342.57 | 4.33 | GYR | None |
| 6 | 2805.31 | 54.77 | 354.63 | 4.37 | 1780.74 | 1964.15 | 1883.08 | -590.42 | 1973.47 | 342.59 | 1.97 | GYR | None |
| 7 | 2810.46 | 54.10 | 354.93 | 5.15 | 1783.74 | 1968.32 | 1887.25 | -590.80 | 1977.57 | 342.62 | 4.22 | GYR | None |
| 8 | 2815.77 | 53.59 | 355.29 | 5.31 | 1786.87 | 1972.58 | 1891.53 | -591.17 | 1981.75 | 342.64 | 3.37 | GYR | None |
| 9 | 2821.07 | 53.11 | 355.34 | 5.30 | 1790.03 | 1976.81 | 1895.76 | -591.51 | 1985.90 | 342.67 | 2.77 | GYR | None |
| 10 | 2825.27 | 52.90 | 354.96 | 4.20 | 1792.56 | 1980.14 | 1899.11 | -591.80 | 1989.18 | 342.69 | 2.68 | GYR | None |
| 11 | 2830.91 | 53.23 | 353.95 | 5.64 | 1795.95 | 1984.63 | 1903.59 | -592.23 | 1993.59 | 342.72 | 4.71 | GYR | None |
| 12 | 2866.83 | 61.07 | 343.07 | 35.92 | 1815.46 | 2014.71 | 1933.05 | -598.35 | 2023.53 | 342.80 | 10.21 | PUP | None |
| 13 | 2894.54 | 64.27 | 342.93 | 27.71 | 1828.18 | 2039.19 | 1956.58 | -605.55 | 2048.15 | 342.80 | 3.52 | PUP | None |
| 14 | 2922.46 | 67.48 | 343.91 | 27.92 | 1839.59 | 2064.55 | 1981.00 | -612.81 | 2073.62 | 342.81 | 3.64 | PUP | None |
| 15 | 2950.73 | 68.11 | 344.23 | 28.27 | 1850.28 | 2090.63 | 2006.17 | -620.00 | 2099.79 | 342.83 | 0.75 | PUP | None |
| 16 | 2984.46 | 68.21 | 344.36 | 33.73 | 1862.82 | 2121.84 | 2036.31 | -628.47 | 2131.09 | 342.85 | 0.14 | PUP | None |
| 17 | 3011.96 | 69.00 | 344.32 | 27.50 | 1872.85 | 2147.36 | 2060.96 | -635.38 | 2156.68 | 342.87 | 0.88 | PUP | None |
| 18 | 3042.19 | 69.53 | 344.34 | 30.23 | 1883.56 | 2175.54 | 2088.19 | -643.02 | 2184.95 | 342.88 | 0.53 | PUP | None |
| 19 | 3070.71 | 67.55 | 343.77 | 28.52 | 1893.99 | 2201.99 | 2113.71 | -650.31 | 2211.48 | 342.90 | 2.19 | PUP | None |
| 20 | 3100.14 | 66.17 | 343.57 | 29.43 | 1905.56 | 2228.94 | 2139.68 | -657.92 | 2238.54 | 342.91 | 1.44 | PUP | None |
| 21 | 3126.67 | 66.38 | 343.75 | 26.53 | 1916.23 | 2253.12 | 2162.98 | -664.75 | 2262.83 | 342.92 | 0.31 | PUP | None |
| 22 | 3154.91 | 66.97 | 344.07 | 28.24 | 1927.41 | 2278.95 | 2187.90 | -671.94 | 2288.76 | 342.93 | 0.71 | PUP | None |
| 23 | 3183.32 | 68.15 | 344.55 | 28.41 | 1938.26 | 2305.13 | 2213.18 | -679.04 | 2315.01 | 342.94 | 1.35 | PUP | None |
| 24 | 3212.20 | 68.53 | 344.93 | 28.88 | 1948.92 | 2331.90 | 2239.07 | -686.10 | 2341.83 | 342.96 | 0.55 | PUP | None |
| 25 | 3240.80 | 68.38 | 346.27 | 28.60 | 1959.42 | 2358.45 | 2264.84 | -692.72 | 2368.41 | 342.99 | 1.34 | PUP | None |
| 26 | 3269.29 | 68.43 | 347.11 | 28.49 | 1969.91 | 2384.92 | 2290.62 | -698.82 | 2394.84 | 343.03 | 0.84 | PUP | None |
| 27 | 3298.35 | 68.69 | 347.50 | 29.06 | 1980.53 | 2411.96 | 2317.00 | -704.76 | 2421.82 | 343.08 | 0.47 | PUP | None |
| 28 | 3326.72 | 68.34 | 346.77 | 28.37 | 1990.92 | 2438.35 | 2342.74 | -710.64 | 2448.15 | 343.13 | 0.82 | PUP | None |
| 29 | 3355.12 | 67.76 | 345.85 | 28.40 | 2001.53 | 2464.66 | 2368.33 | -716.87 | 2474.45 | 343.16 | 1.11 | PUP | None |
| 30 | 3383.58 | 67.62 | 344.60 | 28.46 | 2012.34 | 2490.93 | 2393.79 | -723.59 | 2500.76 | 343.18 | 1.25 | PUP | None |

[(c)2007 IDEAL ID12_OC_09]
SCHLUMBERGER Survey Report

25-May-2007 06:52:57

Page 3 of 4

| Seq # - | Measured depth (m) | Incl angle (deg) | Azimuth angle (deg) | Course length (m) | TVD depth (m) | Vertical section (m) | Displ +N/S- (m) | Displ +E/W- (m) | Total displ (m) | At Azim (deg) | DLS (deg/ 100f) | Srvy tool type | Tool Corr (deg) |
|---------------|--------------------------|------------------------|---------------------------|-------------------------|---------------------|----------------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|
| 31 | 3412.44 | 67.47 | 343.90 | 28.86 | 2023.36 | 2517.52 | 2419.46 | -730.83 | 2527.43 | 343.19 | 0.70 | PUP | None |
| 32 | 3440.90 | 66.79 | 344.52 | 28.46 | 2034.42 | 2543.65 | 2444.69 | -737.96 | 2553.65 | 343.20 | 0.95 | PUP | None |
| 33 | 3469.55 | 67.26 | 345.10 | 28.65 | 2045.61 | 2569.96 | 2470.15 | -744.87 | 2580.02 | 343.22 | 0.76 | PUP | None |
| 34 | 3499.43 | 67.07 | 345.46 | 29.88 | 2057.20 | 2597.44 | 2496.78 | -751.87 | 2607.54 | 343.24 | 0.39 | PUP | None |
| 35 | 3526.78 | 67.16 | 345.13 | 27.35 | 2067.84 | 2622.59 | 2521.16 | -758.27 | 2632.72 | 343.26 | 0.35 | PUP | None |
| 36 | 3555.13 | 67.62 | 345.50 | 28.35 | 2078.74 | 2648.71 | 2546.47 | -764.90 | 2658.87 | 343.28 | 0.62 | PUP | None |
| 37 | 3583.51 | 67.55 | 345.44 | 28.38 | 2089.56 | 2674.90 | 2571.87 | -771.48 | 2685.09 | 343.30 | 0.10 | PUP | None |
| 38 | 3611.22 | 67.31 | 345.47 | 27.71 | 2100.19 | 2700.44 | 2596.64 | -777.91 | 2710.66 | 343.32 | 0.27 | PUP | None |
| 39 | 3640.04 | 67.11 | 345.35 | 28.82 | 2111.36 | 2726.96 | 2622.35 | -784.60 | 2737.21 | 343.34 | 0.24 | PUP | None |
| 40 | 3668.32 | 66.82 | 346.42 | 28.28 | 2122.42 | 2752.95 | 2647.59 | -790.95 | 2763.21 | 343.37 | 1.11 | PUP | None |
| 41 | 3696.32 | 67.04 | 345.72 | 28.00 | 2133.40 | 2778.67 | 2672.59 | -797.15 | 2788.94 | 343.39 | 0.74 | PUP | None |
| 42 | 3724.99 | 66.54 | 345.28 | 28.67 | 2144.69 | 2804.98 | 2698.10 | -803.75 | 2815.27 | 343.41 | 0.68 | PUP | None |
| 43 | 3753.45 | 67.09 | 345.21 | 28.46 | 2155.90 | 2831.08 | 2723.40 | -810.41 | 2841.42 | 343.43 | 0.59 | PUP | None |
| 44 | 3782.10 | 66.77 | 345.59 | 28.65 | 2167.13 | 2857.39 | 2748.91 | -817.06 | 2867.76 | 343.45 | 0.50 | PUP | None |
| 45 | 3810.09 | 66.76 | 344.83 | 27.99 | 2178.17 | 2883.06 | 2773.78 | -823.62 | 2893.47 | 343.46 | 0.76 | PUP | None |
| 46 | 3838.47 | 66.75 | 344.00 | 28.38 | 2189.37 | 2909.05 | 2798.89 | -830.63 | 2919.54 | 343.47 | 0.82 | PUP | None |
| 47 | 3866.91 | 66.77 | 344.37 | 28.44 | 2200.59 | 2935.10 | 2824.04 | -837.75 | 2945.67 | 343.48 | 0.37 | PUP | None |
| 48 | 3895.62 | 66.51 | 347.70 | 28.71 | 2211.98 | 2961.42 | 2849.61 | -844.11 | 2972.00 | 343.50 | 3.26 | PUP | None |
| 49 | 3923.79 | 65.63 | 352.99 | 28.17 | 2223.41 | 2987.14 | 2874.98 | -848.43 | 2997.56 | 343.56 | 5.32 | PUP | None |
| 50 | 3951.86 | 65.12 | 355.63 | 28.07 | 2235.11 | 3012.55 | 2900.37 | -850.96 | 3022.63 | 343.65 | 2.66 | PUP | None |
| 51 | 3980.40 | 64.78 | 357.54 | 28.54 | 2247.19 | 3038.17 | 2926.17 | -852.50 | 3047.83 | 343.76 | 1.88 | PUP | None |
| 52 | 4009.16 | 64.88 | 357.96 | 28.76 | 2259.42 | 3063.89 | 2952.18 | -853.52 | 3073.09 | 343.87 | 0.42 | PUP | None |
| 53 | 4037.62 | 64.96 | 358.43 | 28.46 | 2271.49 | 3089.33 | 2977.95 | -854.33 | 3098.07 | 343.99 | 0.46 | PUP | None |
| 54 | 4065.82 | 64.90 | 0.26 | 28.20 | 2283.44 | 3114.45 | 3003.49 | -854.63 | 3122.71 | 344.12 | 1.79 | PUP | None |
| 55 | 4094.12 | 64.83 | 2.91 | 28.30 | 2295.46 | 3139.44 | 3029.10 | -853.92 | 3147.16 | 344.26 | 2.58 | PUP | None |
| 56 | 4122.42 | 65.58 | 6.86 | 28.30 | 2307.33 | 3164.14 | 3054.69 | -851.73 | 3171.21 | 344.42 | 3.95 | PUP | None |
| 57 | 4150.93 | 66.57 | 11.63 | 28.51 | 2318.90 | 3188.56 | 3080.40 | -847.54 | 3194.87 | 344.62 | 4.78 | PUP | None |
| 58 | 4179.39 | 67.57 | 16.45 | 28.46 | 2329.99 | 3212.38 | 3105.81 | -841.18 | 3217.71 | 344.85 | 4.87 | PUP | None |
| 59 | 4208.03 | 68.53 | 20.57 | 28.64 | 2340.70 | 3235.37 | 3131.00 | -832.75 | 3239.85 | 345.11 | 4.19 | PUP | None |
| 60 | 4236.68 | 68.85 | 23.79 | 28.65 | 2351.12 | 3257.69 | 3155.71 | -822.67 | 3261.18 | 345.39 | 3.21 | PUP | None |

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SCHLUMBERGER Survey Report

25-May-2007 06:52:57

Page 4 of 4

| Seq | Measured | Incl | Azimuth | Course | TVD | Vertical | Displ | Displ | Total | At | DLS | Srvy | Tool |
|-----|----------|------|---------|--------|-----|----------|-------|-------|-------|----|-----|------|------|
|-----|----------|------|---------|--------|-----|----------|-------|-------|-------|----|-----|------|------|

| # | depth | angle | angle | length | depth | section | +N/S- | +E/W- | displ | Azim | (deg/ | tool | Corr |
|-----|---------|-------|-------|--------|---------|---------|---------|---------|---------|--------|-------|-------|-------|
| - | (m) | (deg) | (deg) | (m) | (m) | (m) | (m) | (m) | (m) | (deg) | 100f) | type | (deg) |
| === | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 61 | 4265.27 | 69.16 | 26.19 | 28.59 | 2361.36 | 3279.26 | 3179.90 | -811.39 | 3281.78 | 345.69 | 2.41 | PUP | None |
| 62 | 4293.61 | 69.31 | 29.08 | 28.34 | 2371.41 | 3299.93 | 3203.37 | -799.10 | 3301.54 | 345.99 | 2.91 | PUP | None |
| 63 | 4321.72 | 69.41 | 29.42 | 28.11 | 2381.32 | 3319.99 | 3226.32 | -786.25 | 3320.74 | 346.30 | 0.36 | PUP | None |
| 64 | 4349.58 | 67.22 | 30.18 | 27.86 | 2391.61 | 3339.56 | 3248.79 | -773.39 | 3339.57 | 346.61 | 2.52 | PUP | None |
| 65 | 4377.46 | 67.33 | 35.11 | 27.88 | 2402.39 | 3358.14 | 3270.43 | -759.52 | 3357.47 | 346.93 | 4.97 | PUP | None |
| 66 | 4405.57 | 67.49 | 42.82 | 28.11 | 2413.20 | 3374.79 | 3290.59 | -743.21 | 3373.48 | 347.27 | 7.72 | PUP | None |
| 67 | 4434.47 | 67.63 | 40.50 | 28.90 | 2424.23 | 3390.96 | 3310.54 | -725.46 | 3389.10 | 347.64 | 2.27 | PUP | None |
| 68 | 4462.71 | 67.99 | 38.51 | 28.24 | 2434.90 | 3407.56 | 3330.72 | -708.83 | 3405.31 | 347.99 | 2.03 | PUP | None |
| 69 | 4490.76 | 68.72 | 37.04 | 28.05 | 2445.25 | 3424.71 | 3351.33 | -692.86 | 3422.20 | 348.32 | 1.68 | PUP | None |
| 70 | 4518.77 | 69.55 | 35.16 | 28.01 | 2455.22 | 3442.50 | 3372.47 | -677.44 | 3439.84 | 348.64 | 2.11 | PUP | None |
| 71 | 4547.89 | 70.28 | 33.00 | 29.12 | 2465.23 | 3461.79 | 3395.12 | -662.12 | 3459.08 | 348.96 | 2.26 | PUP | None |
| 72 | 4559.65 | 70.53 | 32.03 | 11.76 | 2469.17 | 3469.81 | 3404.47 | -656.16 | 3467.12 | 349.09 | 2.46 | PUP | None |
| 73 | 4580.00 | 70.75 | 30.51 | 20.35 | 2475.92 | 3484.00 | 3420.88 | -646.20 | 3481.37 | 349.30 | 2.17 | Proj. | to TD |

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Company: ESSO Australia Pty Ltd

Schlumberger

Well: FTA A10A

Field: Fortescue

Rig: ISDL 175

State: Victoria

8.5 in. Section

VISION Density Neutron
1:200 Measured Depth
Recorded Mode Log