

## Schlumberger

Company: **Santos Ltd**

## 12.25 in. Section

# Netherby-1

Field: Otway

# Rig: Ocean Patriot

State:

# Victoria

# VISION Resistivity

## 1:500 Measured Depth

## Recorded Mode Log

|           |               |  |  |  |
|-----------|---------------|--|--|--|
| Rig:      | Ocean Patriot |  |  |  |
| Field:    | Otway         |  |  |  |
| Location: | Otway Basin   |  |  |  |
| Well:     | Netherby-1    |  |  |  |
| Company:  | Santos Ltd    |  |  |  |

|   |                      |                     |                 |                          |
|---|----------------------|---------------------|-----------------|--------------------------|
| <div> <div>VISION Resistivity</div> <div>1:500 Measured Depth</div> <div>Recorded Mode Log</div> </div> |                      |                     |                 |                          |
| Location  |                      |                     |                 |                          |
| Total depth:  | 1875.0 m             | Elevation           |                 | K.B. Top Drive           |
| Spud date:  | 15-July-08           |                     |                 | G.L. -66.1 m             |
| Runs:   | 2 To 4               |                     |                 | D.F. 20.8 m              |
| Permanent datum:  | Mean Sea Level       | Elev.:              |                 | 0.0 m                    |
| Log measured from:  | Drill Floor          |                     |                 | 20.8 m above Perm. datum |
| Depth reference:  | Driller's Depth      |                     |                 |                          |
| Job Number:   | X = E 642,694.06 m   | Longitude           | Latitude        |                          |
| 08ASQ0003   | Y = N 5,717,438.49 m | E 142° 38' 25.745"S | 38° 40' 48.578" |                          |

|                   |                    |              |                 |             |                 |          |
|-------------------|--------------------|--------------|-----------------|-------------|-----------------|----------|
| Depth logged:     | 642.0 m            | To 1852.4 m  | Mag decl:       | 10.777 deg. | Other services: |          |
| Date logged:      | 21-Jul-08          | To 31-Jul-08 | Mag dip:        | -69.86 deg. | See Remarks     |          |
| Bore hole record  |                    |              | Casing record   |             |                 |          |
| Hole size         | from               | to           | Size            | Density     | from            | to       |
| 36.0 in.          | 88.0 m             | 130.9 m      | 30.0 in.        | 310.0 lbm/m | 88.0 m          | 130.9 m  |
| 17.5 in.          | 130.9 m            | 647.5 m      | 13.375 in.      | 223.0 lbm/m | 88.0 m          | 642.0 m  |
| 12.25 in.         | 647.5 m            | 1875.0 m     |                 |             |                 |          |
|                   |                    |              |                 |             |                 |          |
|                   |                    |              |                 |             |                 |          |
|                   |                    |              |                 |             |                 |          |
|                   |                    |              |                 |             |                 |          |
| Mud record        |                    |              |                 |             |                 |          |
| Type              | from               | to           | Mln             | Max         | from            | to       |
| Sea Water         | 88.0 m             | 969.0 m      | 0.34 deg.       | 0.94 deg.   | 130.9 m         | 647.5 m  |
| KCl/HPA/Glycol    | 969.0 m            | 1875.0 m     | 0.52 deg.       | 35.39 deg.  | 647.5 m         | 1875.0 m |
|                   |                    |              |                 |             |                 |          |
| Surface equipment |                    |              | Software record |             |                 |          |
| Unit              | A3518-1/06         | IDEAL W/s    | ID13_OC_08      |             |                 |          |
| Depth system      | Geolograph+GTE+CLT | SPM          | HSPM13_OC_03    |             |                 |          |
|                   |                    | LWD          | See Remarks     |             |                 |          |
|                   |                    | MWD          | See Remarks     |             |                 |          |

# Bit Run Summary

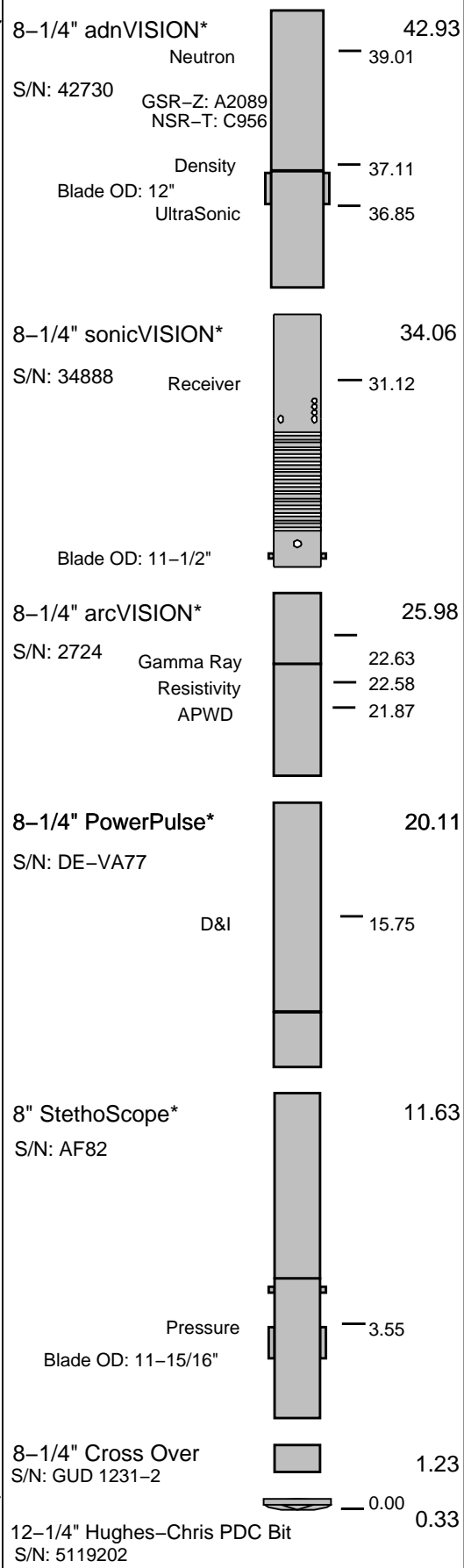
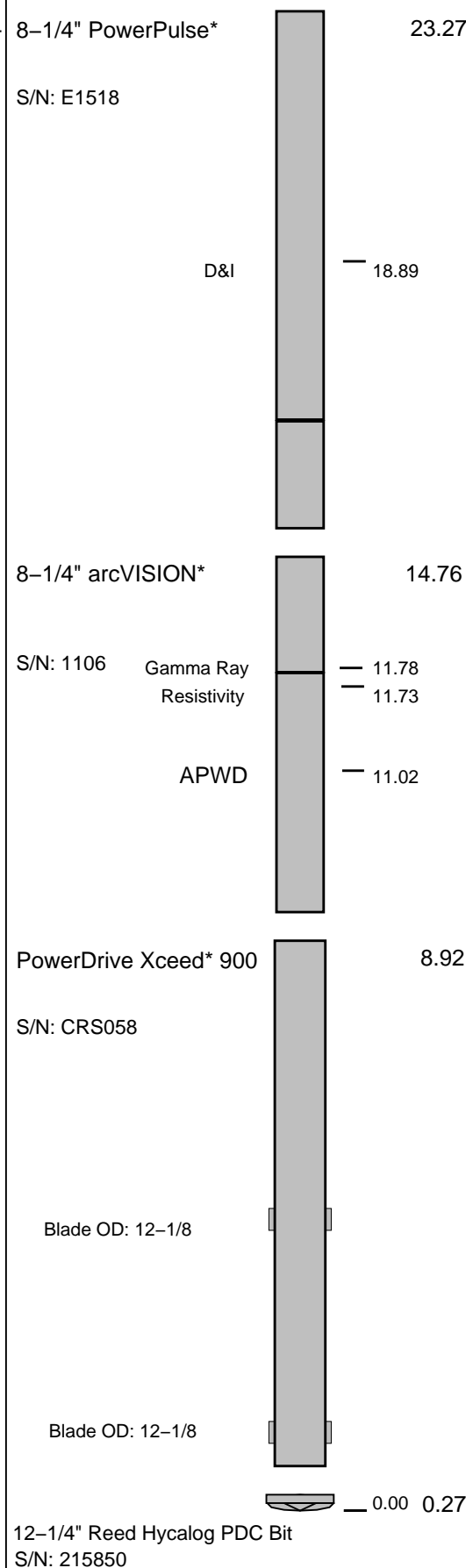
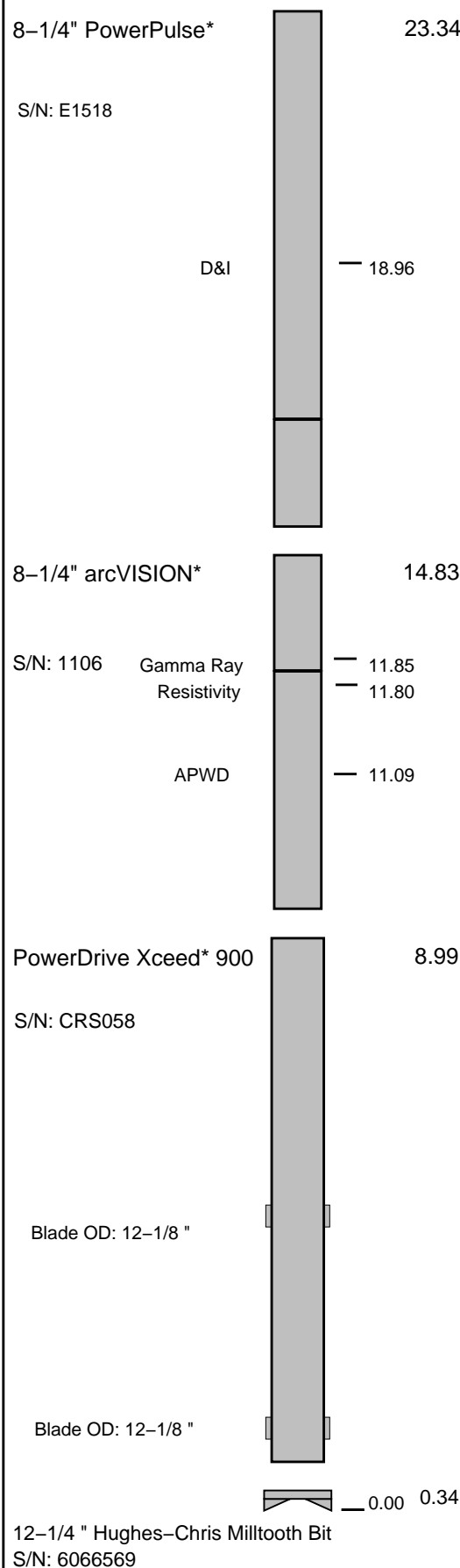
| Run number             |          | 2          | 3          | 4           |  |  |  |  |  |  |
|------------------------|----------|------------|------------|-------------|--|--|--|--|--|--|
| Bit size               | in       | 12.25      | 12.25      | 12.25       |  |  |  |  |  |  |
| Bit start depth        | m        | 647.5      | 1421.0     | 1870.0      |  |  |  |  |  |  |
| Bit end depth          | m        | 1421.0     | 1870.0     | 1875.0      |  |  |  |  |  |  |
| Top interval logged    | m        | 642.0      | 1409.9     | 1750.0      |  |  |  |  |  |  |
| Bottom interval logged | m        | 1409.9     | 1859.0     | 1838.0      |  |  |  |  |  |  |
| Begin log: time        |          | 06:00      | 21:45      | 12:00       |  |  |  |  |  |  |
| Begin log: date        |          | 21-Jul-08  | 23-Jul-08  | 30-Jul-08   |  |  |  |  |  |  |
| End log: time          |          | 16:05      | 23:10      | 23:00       |  |  |  |  |  |  |
| End log: date          |          | 23-Jul-08  | 24-Jul-08  | 31-Jul-08   |  |  |  |  |  |  |
| <b>Mud data</b>        |          |            |            |             |  |  |  |  |  |  |
| Depth                  | m        | 1421.0     | 1870.0     | 1875        |  |  |  |  |  |  |
| Type                   |          | KCl/Glycol | KCl/Glycol | KCl/Glycol  |  |  |  |  |  |  |
| Mud weight             | ppg      | 9.4        | 11.0       | 11.0        |  |  |  |  |  |  |
| Solids                 | %        | 8.20       | 10.75      | 10.75       |  |  |  |  |  |  |
| Chlorides              | mg/L     | 47000      | 48000      | 45000       |  |  |  |  |  |  |
| Rm                     | ohm.m@°C | 0.098@19.5 | 0.110@21.6 | 0.1285@15.4 |  |  |  |  |  |  |
| Rmf                    | ohm.m@°C | 0.095@20.0 | 0.087@21.7 | 0.1054@15.2 |  |  |  |  |  |  |
| Rmc                    | ohm.m@°C | 0.100@20.1 | 0.129@21.6 | 0.1490@15.6 |  |  |  |  |  |  |

|                           |     |             |          |          |           |            |  |  |  |  |
|---------------------------|-----|-------------|----------|----------|-----------|------------|--|--|--|--|
| Potassium                 | %   | 4.723       | 4.513    | 4.356    |           |            |  |  |  |  |
| <b>Environmental data</b> |     |             |          |          |           |            |  |  |  |  |
| <b>GR</b>                 |     |             |          |          |           |            |  |  |  |  |
| Mud weight                | ppg | 9.4         | 11.0     | 11.0     |           |            |  |  |  |  |
| Bit size                  | in  | 12.25       | 12.25    | 12.25    |           |            |  |  |  |  |
| <b>Resistivity</b>        |     |             |          |          |           |            |  |  |  |  |
| <b>Neutron porosity</b>   |     |             |          |          |           |            |  |  |  |  |
| Hole Size                 | in  | 12.25       | 12.25    | 12.25    |           |            |  |  |  |  |
| Mud weight                | ppg | 9.4         | 11.0     | 11.0     |           |            |  |  |  |  |
| Temperature               | °C  | 56          | 77       | 77       |           |            |  |  |  |  |
| Mud salinity              | ppk | n/a         | n/a      | 72.75    |           |            |  |  |  |  |
| Formation salinity        | n/a | n/a         | n/a      | n/a      |           |            |  |  |  |  |
| Recording rate 1          | SEC | 6           | 6        | 6 (ARC)  |           |            |  |  |  |  |
| Recording rate 2          | SEC | n/a         | n/a      | 5 (SADN) |           |            |  |  |  |  |
| Filtering GR              |     | 3 Points    | 3 Points | 3 Points |           |            |  |  |  |  |
| Filtering density         |     | n/a         | n/a      | 3 Points |           |            |  |  |  |  |
| Filtering Neutron         |     | n/a         | n/a      | 3 Points |           |            |  |  |  |  |
| Company representative    |     | C. Roots    | N. Peri  |          |           |            |  |  |  |  |
| Anadrill personnel        |     | J. Oldridge | Z. Rudd  | A. Kohli | A. Stroud | A. Partono |  |  |  |  |

|  |  |  |
|--|--|--|
| <p style="text-align: center;"><b>DISCLAIMER</b></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> |  |  |
| <b>OTHER SERVICES FOR RUN2</b><br>Directional Drilling<br>Direction Surveys<br>Shock & Vibrations<br>APWD  | <b>OTHER SERVICES FOR RUN3</b><br>Directional Drilling<br>Direction Surveys<br>Shock & Vibrations<br>APWD  | <b>OTHER SERVICES FOR RUN4</b><br>Directional Drilling<br>Direction Surveys<br>Shock & Vibrations<br>APWD  |
| <b>REMARKS: RUN NUMBER 2</b><br>Depth is referenced to Driller's Depth<br><br>Gamma Ray is corrected for mud weight, bit size, tool collar size and potassium content in mud.<br><br>Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature.<br><br>POOH to change bit  | <b>REMARKS: RUN NUMBER 3</b><br>Depth is referenced to Driller's Depth<br><br>Gamma Ray is corrected for mud weight, bit size, tool collar size and potassium content in mud.<br><br>Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature.<br><br>POOH at Well TD | <b>REMARKS: RUN NUMBER 4</b><br>Depth is referenced to Driller's Depth<br><br>Gamma Ray is corrected for mud weight, bit size, tool collar size and potassium content in mud.<br><br>Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature.<br><br>Thermal neutron porosity (TNPH) is corrected for bit size, temperature, mud salinity and mud hydrogen index (a factor of mud weight, mud pressure, and mud temperature).<br><br>Neutron porosity is calculated using a limestone matrix density of 2.71 gg/cm3.<br><br>Reamed down from 1750–1870m to relog.<br><br>Drilled from 1870–1875m .<br><br>POOH at completion of logging. |

| EQUIPMENT DESCRIPTION |                    |                    |
|-----------------------|--------------------|--------------------|
| RUN2                  | RUN3               | RUN4               |
| DOWNHOLE EQUIPMENT    | DOWNHOLE EQUIPMENT | DOWNHOLE EQUIPMENT |

## DOWNHOLE EQUIPMENT



| Variable Name   | Variable Description                                    | Run Name & Value |              |              |              |
|-----------------|---|------------------|--------------|--------------|--------------|
|                 | Run Number  |                  | 2            | 3            | 4            |
|                 | General Information                                     |                  |              |              |              |
| BHT_RM          | Bottom Hole Temperature (RM)                            | DEGC             | 56.000       | 77.000       | 63.000       |
| BSAL_RM         | Mud Salinity (RM)                                       | PPK              | 0.000        | 0.000        | 72.750       |
| BS_RM           | Bit Size (RM)   | IN               | 12.250       | 12.250       | 12.250       |
| COEF_M          | User Defined FEXP in Clean Sand                         | ----             | 1.650        | 1.650        | 1.650        |
| C_WS            | Overpressure correction to Sw and M                     | ----             | 1.000        | 1.000        | 1.000        |
| FEXP            | Formation Factor Exponent (RM)                          | ----             | 2.000        | 2.000        | 2.000        |
| FNUM            | Formation Factor Enumerator (RM)                        | ----             | 1.000        | 1.000        | 1.000        |
| FPHI_RM         | Formation Factor Porosity Source (RM)                   | ----             | XPLOT        | XPLOT        | XPLOT        |
| MST_RM          | Mud Sample temperature (RM)                             | DEGC             | 19.500       | 21.600       | 15.400       |
| MW_RM           | Mud Weight (RM)   | LB/G             | 9.400        | 11.000       | 11.100       |
| OBMF_RM         | Oil Based Mud (RM)                                      | ----             | NO           | NO           | NO           |
| RHOF_RM         | Mud Filtrate Density (RM)                               | G/C3             | 1.000        | 1.000        | 1.000        |
| RHOM_RM         | Matrix density (RM)                                     | G/C3             | 2.710        | 2.710        | 2.710        |
| RMS_RM          | Resistivity of Mud Sample (RM)                          | OHMM             | 0.098        | 0.110        | 0.128        |
| RWA_COMP_M      | Rwa computation model                                   |                  |              |              |              |
| RWA_DEN_AD      | Rwa Density Input ADN                                   |                  |              |              |              |
| RWA_DEN_CD      | Rwa Density Input CDN                                   |                  |              |              |              |
| RWA_DEN_IN      | Rwa Density Input                                       |                  |              |              |              |
| RWA_FORM_M      | Rwa computation formation model                         |                  |              |              |              |
| RWA_RES_IN      | Rwa computation resistivity input                       |                  |              |              |              |
| RWS_RM          | Resistivity of Connate Water (RM)                       | OHMM             | 1.000        | 1.000        | 1.000        |
| SHT_RM          | Ground Level Temperature (Mud-Line When Offshore ) (RM) | DEGC             | 10.000       | 10.000       | 10.000       |
| TD_RM           | Total Measured Depth (RM)                               | M                | 1421.000     | 1870.000     | 1875.000     |
| TWS_RM          | Temperature of Connate Water (RM)                       | DEGC             | 23.889       | 23.889       | 23.889       |
| VF_ILLI         | Fraction of illite in shales                            | ----             | 0.500        | 0.500        | 0.500        |
| VF_KAOL         | Fraction of kaolinite in shales                         | ----             | 0.500        | 0.500        | 0.500        |
| VF_MONT         | Fraction of montmorillonite in shales                   | ----             | 0.000        | 0.000        | 0.000        |
| XPDM_RM         | Cross plot density porosity multiplier                  | ----             | 0.675        | 0.675        | 0.675        |
| XPNM_RM         | Cross plot neutron porosity multiplier                  | ----             | 0.325        | 0.325        | 0.325        |
|                 | ARC   |                  |              |              |              |
| A12A            | ARC Air Cal Attenuation From T1 at 2 MHz                | DB               | 8.020        | 8.020        | 8.267        |
| A14A            | ARC Air Cal Attenuation From T1 at 400 KHz              | DB               | 7.994        | 7.994        | 8.197        |
| A22A            | ARC Air Cal Attenuation From T2 at 2 MHz                | DB               | 6.677        | 6.677        | 6.374        |
| A24A            | ARC Air Cal Attenuation From T2 at 400 KHz              | DB               | 6.710        | 6.710        | 6.450        |
| A32A            | ARC Air Cal Attenuation From T3 at 2 MHz                | DB               | 4.724        | 4.724        | 4.991        |
| A34A            | ARC Air Cal Attenuation From T3 at 400 KHz              | DB               | 4.692        | 4.692        | 4.915        |
| A42A            | ARC Air Cal Attenuation From T4 at 2 MHz                | DB               | 4.625        | 4.625        | 4.337        |
| A44A            | ARC Air Cal Attenuation From T4 at 400 KHz              | DB               | 4.657        | 4.657        | 4.410        |
| A52A            | ARC Air Cal Attenuation From T5 at 2 MHz                | DB               | 3.309        | 3.309        | 3.582        |
| A54A            | ARC Air Cal Attenuation From T5 at 400 KHz              | DB               | 3.289        | 3.289        | 3.513        |
| ABNT            | Abnormal Transmitter Indicator                          | ----             | No_Tx_Failed | No_Tx_Failed | No_Tx_Failed |
| ADHS            | ARC Down Hole Software Version                          | ----             | 9.3B13       | 9.3B13       | 9.3B13       |
| AM2A            | ARC Air Cal Amplitude Offset at 2 MHz                   | ----             | -50000.000   | -50000.000   | -50000.000   |
| ANISO_COMPUTE   | Anisotropy Computation Option                           | ----             | YES          | YES          | YES          |
| APICG           | ARC5 Gamma Ray Gain Factor                              | ----             | 1.054        | 1.054        | 1.078        |
| APIG            | ARC Gamma Ray API Gain Factor                           | ----             | -1.000       | -1.000       | -1.000       |
| ARC_DATA_FIX    | ARC: Create A Corrected ARC Time Data File              | ----             | NO           | NO           | NO           |
| ARC_DATA_LTB    | ARC: Create An ARC LTB Data File                        | ----             | NO           | NO           | NO           |
| ATMP_ARC        | ARC Select Temperature Channel                          | ----             | Annulus_Temp | Annulus_Temp | Annulus_Temp |
| ATRN            | ARC Tool Run Number                                     | ----             | 1            | 2            | 1            |
| ATSN            | ARC Tool Serial Number                                  | ----             | 1106         | 1106         | 2724         |
| AZMF            | Formation DIP Azimuth                                   | DEG              | 0.000        | 0.000        | 0.000        |
| BH_COMPUTE      | Borehole Inversion Computation Option                   | ----             | YES          | YES          | YES          |
| CALG            | ARC Gamma Ray Cal Gain Factor                           | ----             | 1.054        | 1.054        | 1.078        |
| CALI_SLCT_ARC   | ARC Caliper Selection                                   | ----             | BITSIZE      | BITSIZE      | BITSIZE      |
| CDPTH_ARC       | Process Start Depth                                     | M                | 30.480       | 30.480       | 30.480       |
| DIELEC_COMPUTE  | Dielectric Computation Option                           | ----             | YES          | YES          | YES          |
| DIPF            | Formation DIP Angle                                     | DEG              | 0.000        | 0.000        | 0.000        |
| ERRCT           | Percentage Error Cutoff                                 | ----             | 4.500        | 4.500        | 4.500        |
| GRSH            | GR Shale (Invasion Computation Cutoff)                  | GAPI             | 1000.000     | 1000.000     | 1000.000     |
| HIGH_BLEND      | High Resistivity Threshold for Blending                 | OHMM             | 2.000        | 2.000        | 2.000        |
| INCLIN_B0       | ARC Bias Constant (mg)                                  | ----             | 0.000        | 0.000        | 0.000        |
| INCLIN_B1       | ARC Bias First-order Coefficient (mg/degC)              | ----             | 0.000        | 0.000        | 0.000        |
| INCLIN_B2       | ARC Bias Secod-order Coeeficient (mg/degC)              | ----             | 0.000        | 0.000        | 0.000        |
| INCLIN_B3       | ARC Bias Third-order Coeeficient (mg/degC)              | ----             | 0.000        | 0.000        | 0.000        |
| INCLIN_C0       | ARC Current Scale Factor Constant (mA/g)                | ----             | 1.000        | 1.000        | 1.000        |
| INCLIN_C1       | ARC Scale First-order Coefficient (mA/g/degC)           | ----             | 0.000        | 0.000        | 0.000        |
| INCLIN_C2       | ARC Scale Second-order Coeeficient (mA/g/degC)          | ----             | 0.000        | 0.000        | 0.000        |
| INCLIN_C3       | ARC Scale Third-order Coeeficient (mA/g/degC)           | ----             | 0.000        | 0.000        | 0.000        |
| INVAS_COMPUTE   | Invasion Computation Option                             | ----             | YES          | YES          | YES          |
| JSD_ARC         | ARC Acquisition start date                              | ----             | 21-Jul-08    | 23-Jul-08    | 30-Jul-08    |
| KPER            | Potassium Concentration (RM)                            | ----             | 4.723        | 4.513        | 4.356        |
| LOW_BLEND       | Low Resistivity Threshold for Blending                  | OHMM             | 1.000        | 1.000        | 1.000        |
| MSWS            | ARC Wizard Model Switch Window                          | M                | 1.524        | 1.524        | 1.524        |
| MULTIEFFECT_COM | Multi Effect Option                                     | ----             | YES          | YES          | YES          |
| P11AC_RM        | ARC: Air Calibration For Phase T1 to R1                 | DEG              | -999.250     | -999.250     | -999.250     |
| P12A            | ARC Air Cal Phase-Shift From T1 at 2 MHz                | DEG              | 1.960        | 1.960        | -1.295       |
| P14A            | ARC Air Cal Phase-Shift From T1 at 400 KHz              | DEG              | 0.491        | 0.491        | 1.663        |
| P22A            | ARC Air Cal Phase-Shift From T2 at 2 MHz                | DEG              | -1.862       | -1.862       | 1.364        |
| P24A            | ARC Air Cal Phase-Shift From T2 at 400 KHz              | DEG              | -0.572       | -0.572       | -1.688       |
| P32A            | ARC Air Cal Phase-Shift From T3 at 2 MHz                | DEG              | 1.851        | 1.851        | -1.375       |
| P34A            | ARC Air Cal Phase-Shift From T3 at 400 KHz              | DEG              | 0.506        | 0.506        | 1.672        |
| P42A            | ARC Air Cal Phase-Shift From T4 at 2 MHz                | DEG              | -1.940       | -1.940       | 1.321        |
| P44A            | ARC Air Cal Phase-Shift From T4 at 400 KHz              | DEG              | -0.578       | -0.578       | -1.701       |
| P52A            | ARC Air Cal Phase-Shift From T5 at 2 MHz                | DEG              | 1.831        | 1.831        | -1.400       |
| P54A            | ARC Air Cal Phase-Shift From T5 at 400 KHz              | DEG              | 0.511        | 0.511        | 1.648        |

|                 |  |      |            |            |            |
|-----------------|--|------|------------|------------|------------|
| POFFSET_ARC     | ARC: Pressure Offset   | PSI  | 0.000      | 0.000      | 0.000      |
| PRTD            | Preferred Resistivity Log for Rt Display while Multi-Effects | ---- | P34B       | P34B       | P34B       |
| PSOF_ADJ_T1     | ARC: User Input Phase offset                                 | DEG  | 0.000      | 0.000      | 0.000      |
| RESTIK          | ARC resistivity tick source                                  | ---- | Phase      | Phase      | Phase      |
| RSD             | LWD run start date dd-mmm-yy                                 | ---- | 21-Jul-08  | 23-Jul-08  | 30-Jul-08  |
| RWA_COMP_MOD    | Rwa computation model  | ---- | BASIC      | BASIC      | BASIC      |
| RWA_DEN_ADN     | Rwa Density Input  | ---- | RHOB       | RHOB       | RHOB       |
| RWA_DEN_CDN     | Rwa Density Input  | ---- | RHOB       | RHOB       | RHOB       |
| RWA_DEN_INPUT   | Rwa Density Input  | ---- | RHOB       | RHOB       | RHOB       |
| RWA_FORM_MOD    | Rwa computation formation model                              | ---- | CLASTIC    | CLASTIC    | CLASTIC    |
| RWA_RES_INPUT   | Rwa computation resistivity input                            | ---- | RT         | RT         | RT         |
| SHIG            | ARC High Shock Risk Level                                    | CPS  | 0.500      | 0.500      | 0.500      |
| SMED            | ARC Medium Shock Risk Level                                  | CPS  | 0.330      | 0.330      | 0.330      |
| SMIN            | ARC Minimum Shock Risk Level                                 | CPS  | 0.160      | 0.160      | 0.160      |
| SUPD            | ARC Real Time Shock Update Rate                              | S    | 30.000     | 30.000     | 30.000     |
| TCODE_ARC       | ARC Tool File Code   | S    | 30.000     | 30.000     | 30.000     |
| TSIZ_ARC        | ARC Tool Size  | IN   | 8.250      | 8.250      | 8.250      |
| UNIFORM_COMPUTE | Uniform Rock Option  | ---- | YES        | YES        | YES        |
| VERS_ARC        | ARC Down hole software version Number                        | ---- | 9.300      | 9.300      | 9.300      |
| WRK             | to Report Potassium Concentration (RM)                       | ---- | K_by_Wgt_% | K_by_Wgt_% | K_by_Wgt_% |

|                 |  |      |         |           |
|-----------------|--|------|---------|-----------|
| ADN_CHASSIS_STR | Type String  |      | Chassis | ADN       |
| ADN_COLLAR_STR  | Type String  |      | Collar  | ADN       |
| ADN_DATA_FIX    | ADN: Create A Corrected ADN Time Data File             | ---- |         | NO        |
| ADN_DATA_LTB    | ADN: Create An ADN LTB Data File                       | ---- |         | NO        |
| ADN_STAB_STR    | ADN Stabilizer Type String                             | ---- |         | NO        |
| ALPHA_COMPUTE_D | Perform Density Enhanced Vertical Resolution process ? | ---- |         | NO        |
| ALPHA_COMPUTE_N | 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)                        |      | IN      | 3.000     |
| CLO_RM          | Caliper Low limit from BS (RM)                         |      | IN      | 0.000     |
| DEVI            | Well Section Deviation                                 |      | DEG     | 21.560    |
| DTIK_SEL        | ADN: Density Tick Channel Name                         | ---- |         | LSAZ      |
| DTMUD           | Delta-T for Mud  |      | US/F    | 189.270   |
| DYN_IMG_COMPUTE | Generate Dynamic Normalized Image?                     | ---- |         | NO        |
| ENVCOR          | Neutron Processing: Environmental Correction?          | ---- |         | YES       |
| EVR             | EVR Process averaging number of samples (RM)           | ---- |         | 49        |
| FAZ1_AVAIL      | ADN8 Neutron Far Tube 1 Available?                     | ---- |         | YES       |
| FAZ2_AVAIL      | ADN8 Neutron Far Tube 2 Available?                     | ---- |         | YES       |
| FAZ3_AVAIL      | ADN8 Neutron Far Tube 3 Available?                     | ---- |         | YES       |
| FCD             | Future Casing (Outer) Diameter                         |      | IN      | 0.000     |
| GCSE            | Generalized Caliper Selection                          | ---- |         | BS        |
| IDQT            | Image Derived Quality Threshold                        | ---- |         | 1.000     |
| IHVS            | Integrated Hole Volume Start Value(RM)                 |      | F3      | 0.000     |
| IMAGE_MAX_SOA   | Image SOA (Quadrant) Right Scale                       |      | IN      | 2.500     |
| IMAGE_MAX_SPEF  | Image PEF(Segment) Right Scale                         | ---- |         | 6.000     |
| IMAGE_MAX_SRHOB | Image RHOB(Segment) Right Scale                        |      | G/C3    | 2.650     |
| IMAGE_MIN_SOA   | Image SOA (Quadrant) Left Scale                        |      | IN      | 0.000     |
| IMAGE_MIN_SPEF  | Image PEF(Segment) Left Scale                          | ---- |         | 2.000     |
| IMAGE_MIN_SRHOB | Image RHOB(Segment) Left Scale                         |      | G/C3    | 2.050     |
| JSD_ADN         | ADN Acquisition start date                             | ---- |         | 30-Jul-08 |
| LITHO_TYPE_ADN  | 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_8_RM       | ADN: Neutron Near Tube used :                          | ---- |         | 1-2-3     |
| NTIK_SEL        | ADN: Neutron Tick Channel Name                         | ---- |         | FAZ1      |
| SOCNL           | Standoff Distance of the CNL Tool                      | ---- |         | 1.000     |
| SSIZ_ADN        | ADN Stabilizer Size                                    |      | IN      | 12.000    |
| STOH            | ADN Density Top of Hole Sector (Left Boundary):        | ---- |         | SECTOR_0  |
| TRPM_RM         | Average Tool Rotational Speed                          |      | RPM     | 20.000    |
| USMIN_RM        | ADN:Minimum Ultrasonic standoff (RM)                   |      | IN      | 0.180     |
| USWF_RM         | ADN:Process Ultrasonic Waveform?                       | ---- |         | YES       |
| VERS_ADN        | ADN Downhole Software Version                          | ---- |         | V8.3A02   |
| WSDI            | Window Size of Dynamic Normalization Image             |      | M       | 4.572     |

Schlumberger Drilling & Measurements

ID13 Parameter Insert Header Software version 3.0c

## VISION Resistivity RM 500MD

IDF

ARC8A-AA id13\_0c\_02 MWD\_10 id13\_0c\_02

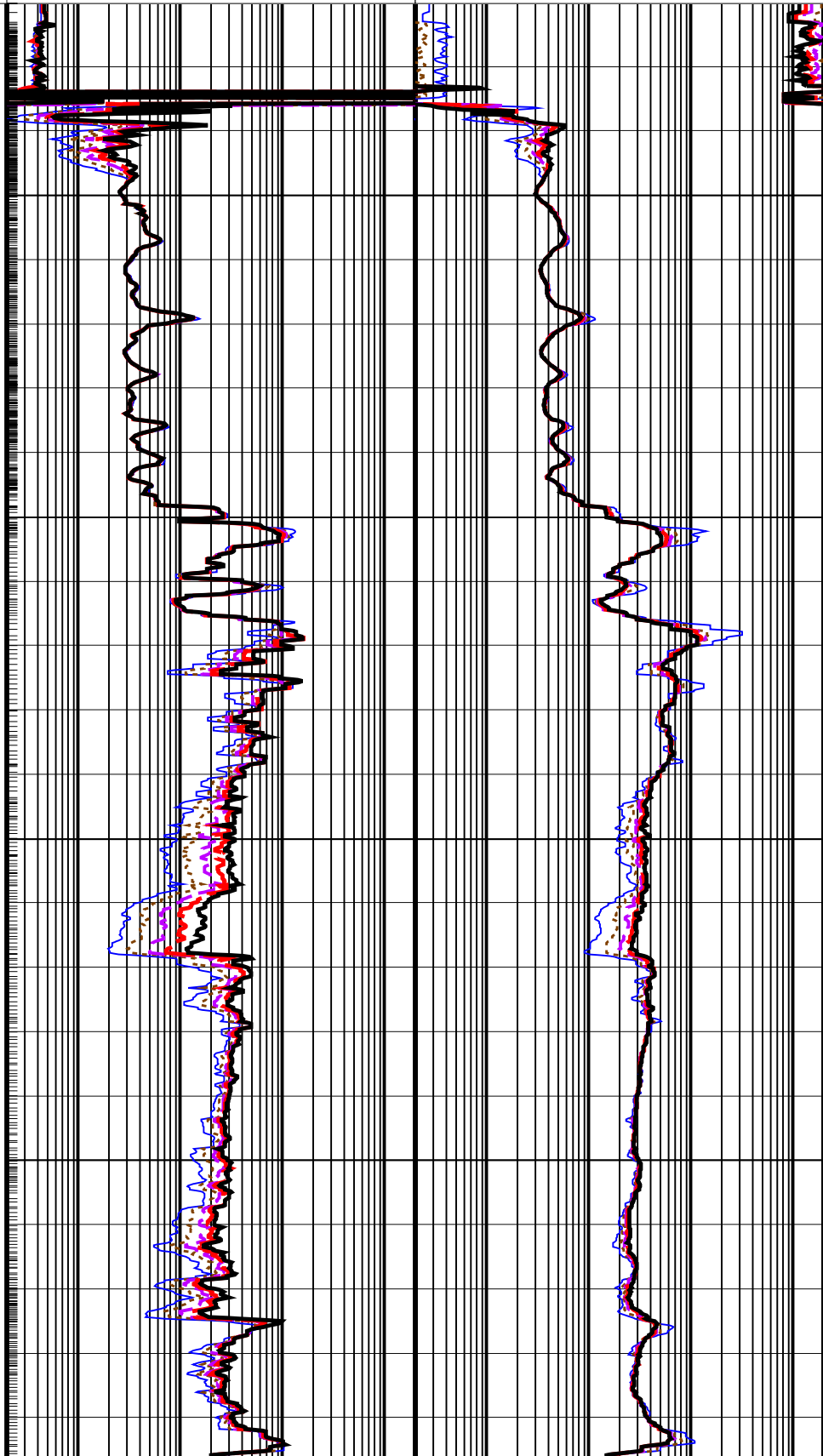
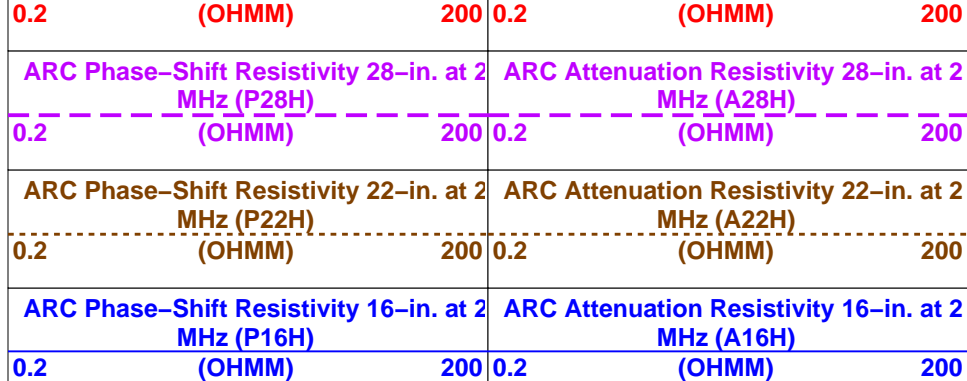
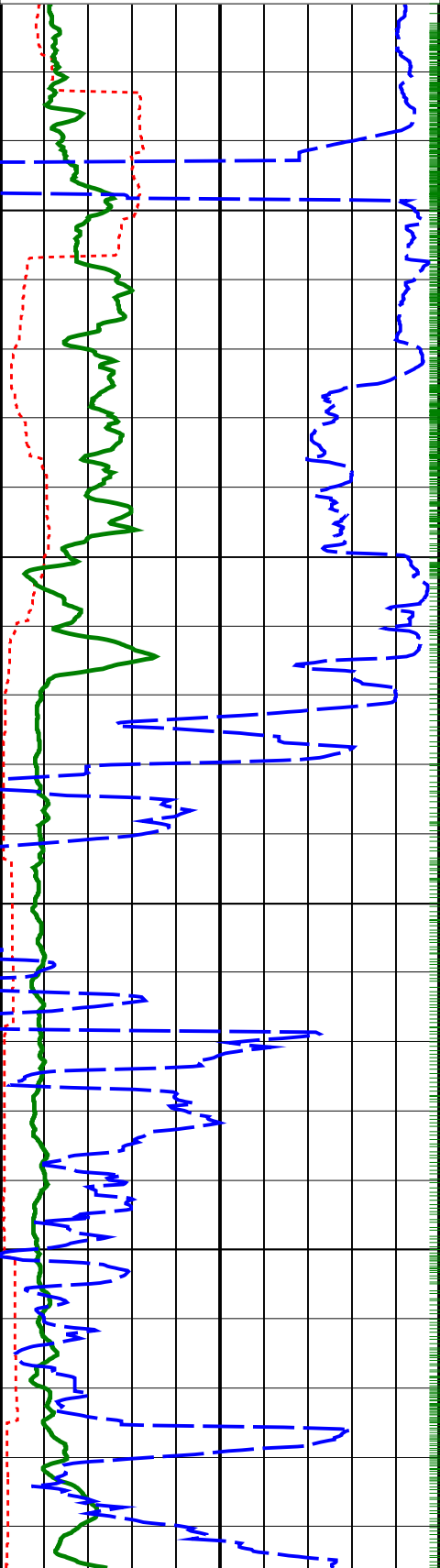
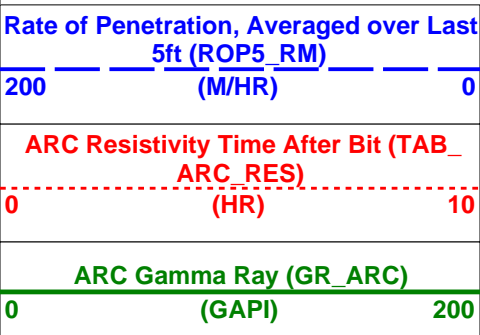
Format: VISION Resistivity 2MHz Vertical Scale: 1:500 Graphics File Created: 22-Aug-2008 21:44

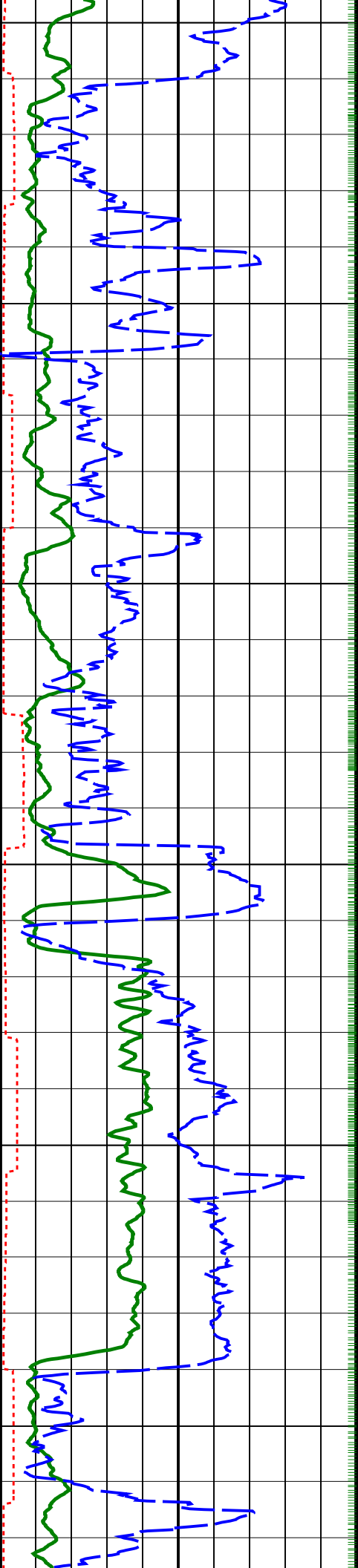
### PIP SUMMARY

└ ARC Gamma Ray Samples

└ ARC Resistivity Samples

| ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H) |        | ARC Attenuation Resistivity 40-in. at 2 MHz (A40H) |        |
|--|--------|--|--------|
| 0.2  | (OHMM) | 200  | (OHMM) |
| ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H) |        | ARC Attenuation Resistivity 34-in. at 2 MHz (A34H) |        |

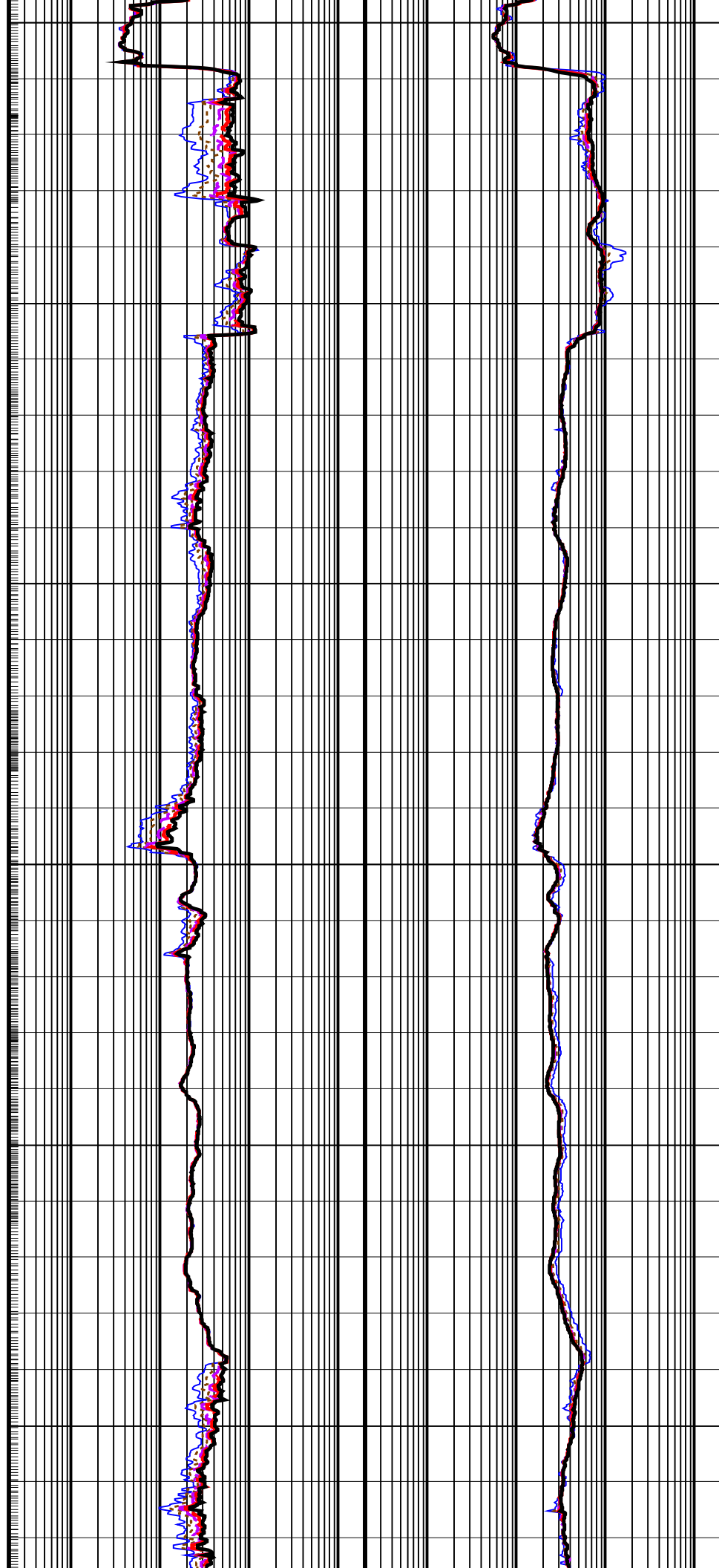




750

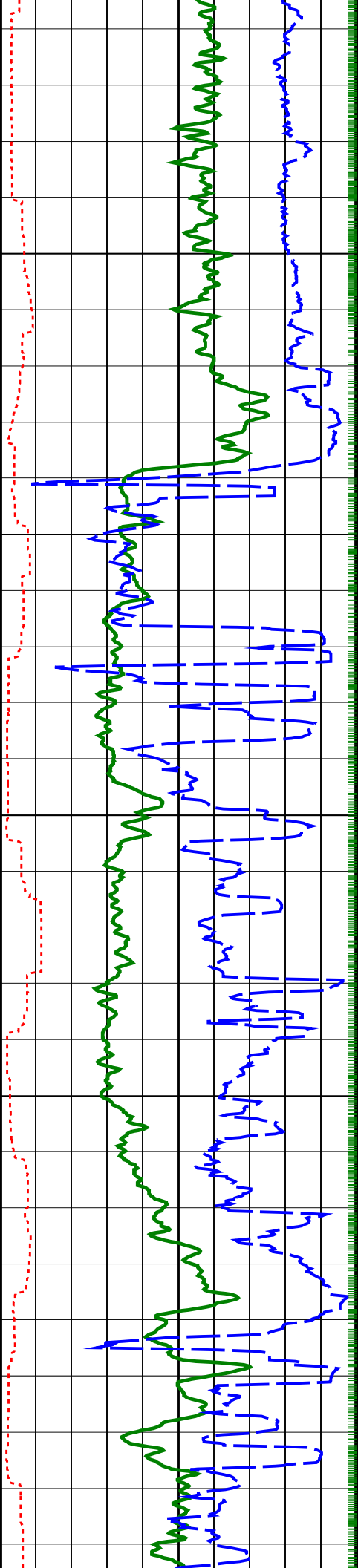
800

850





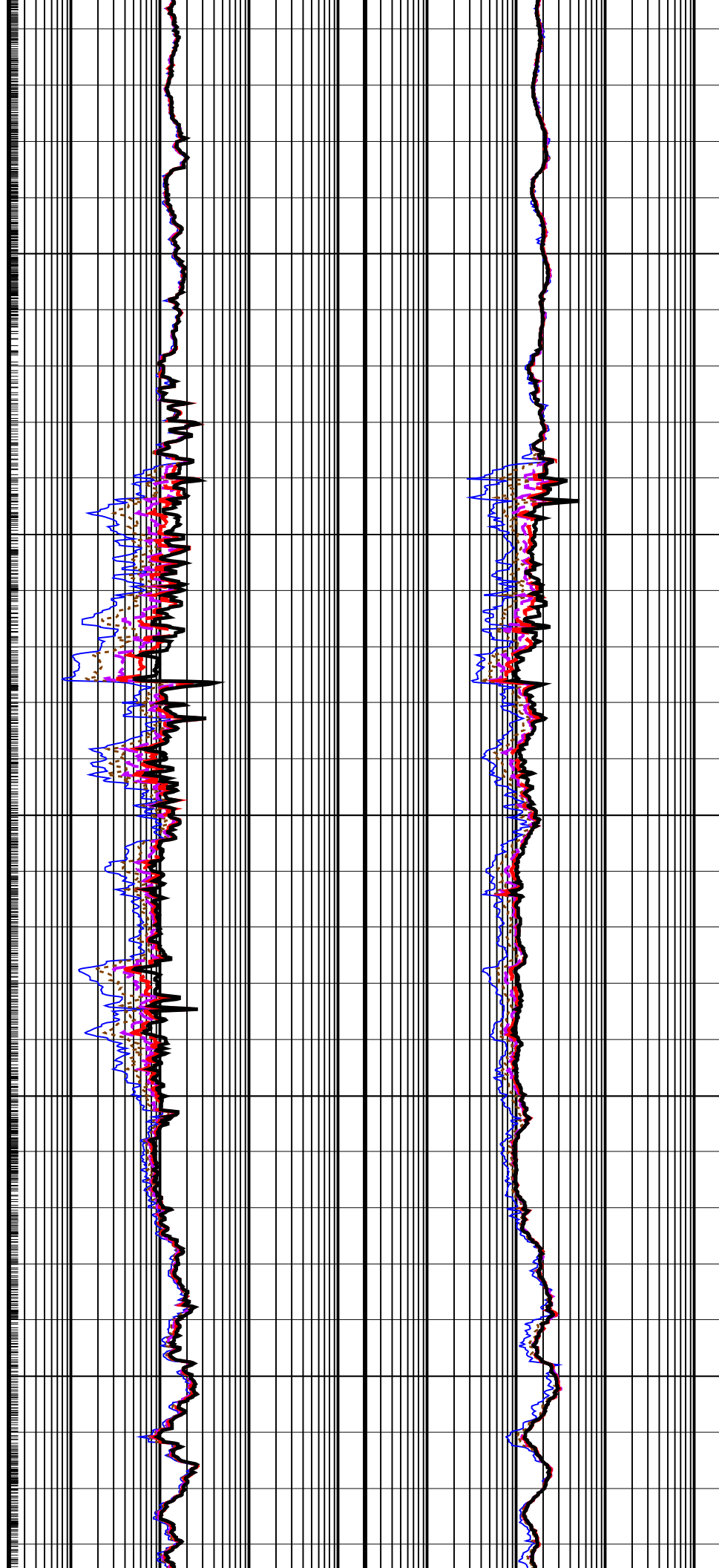


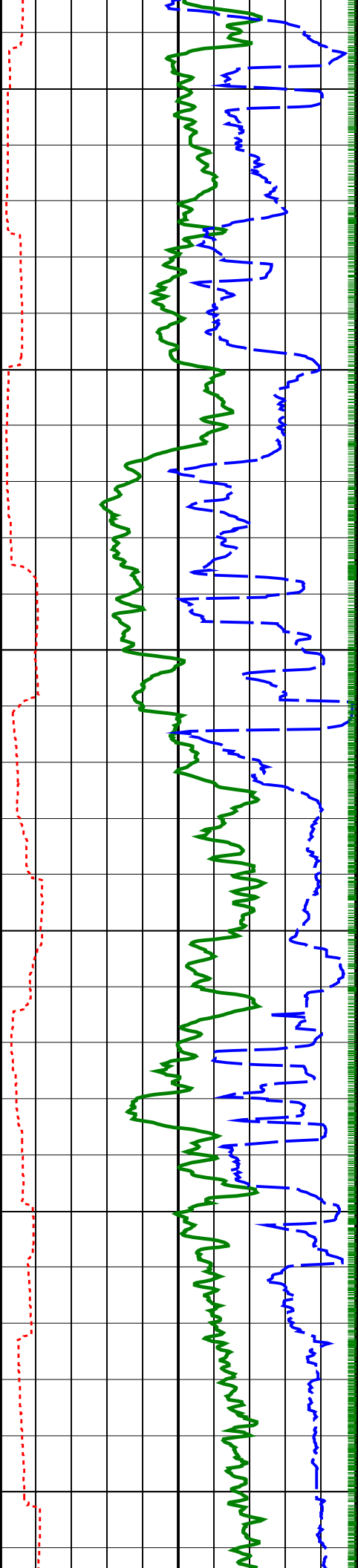


1050

1100

1150

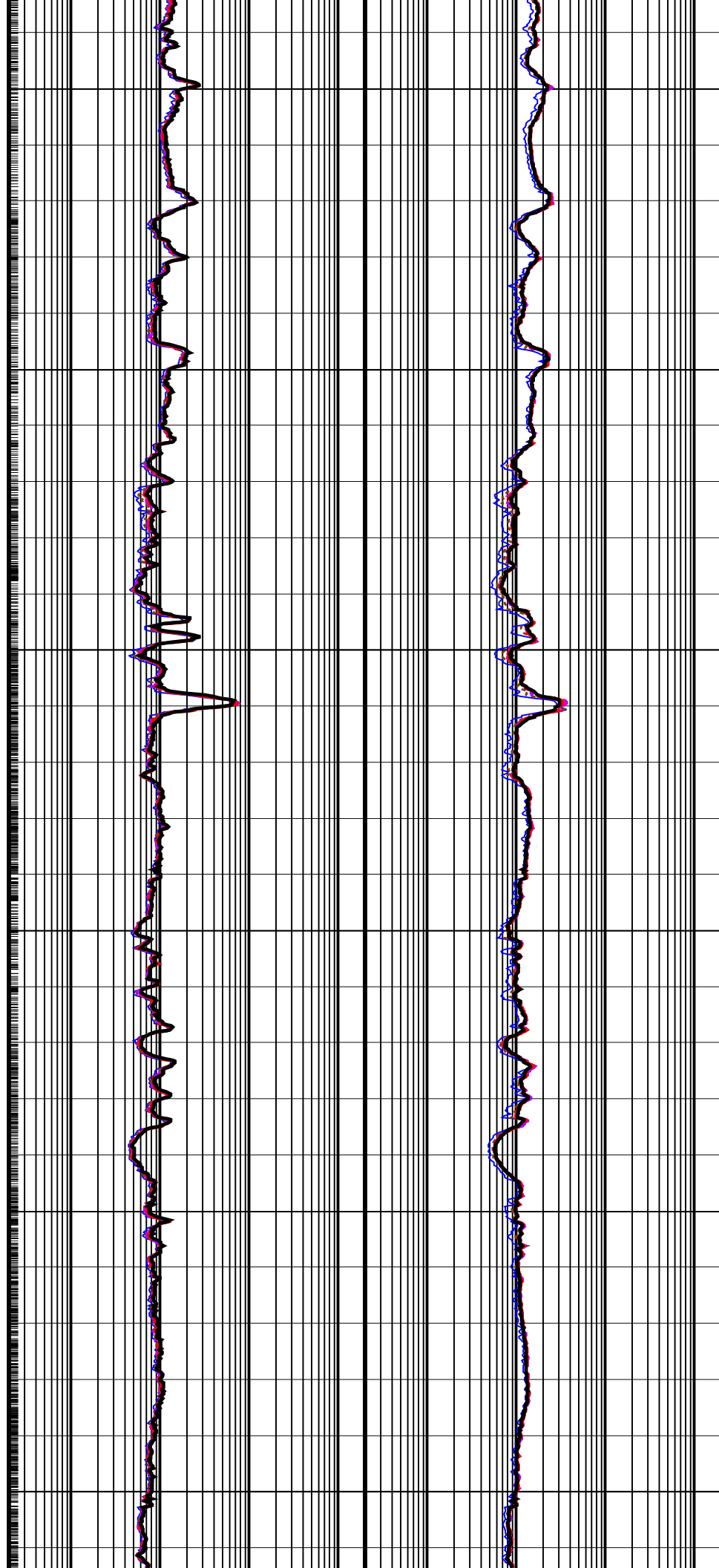


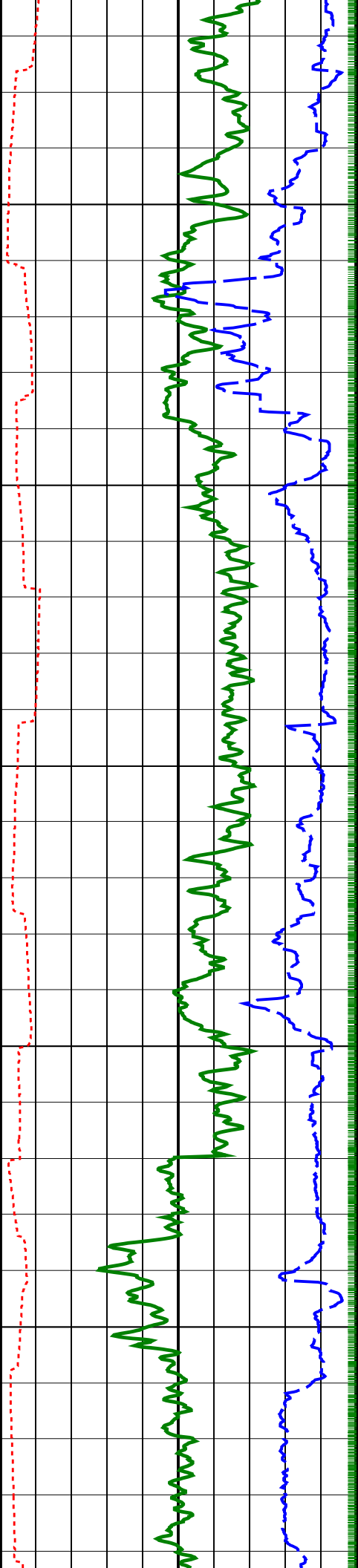


1200

1250

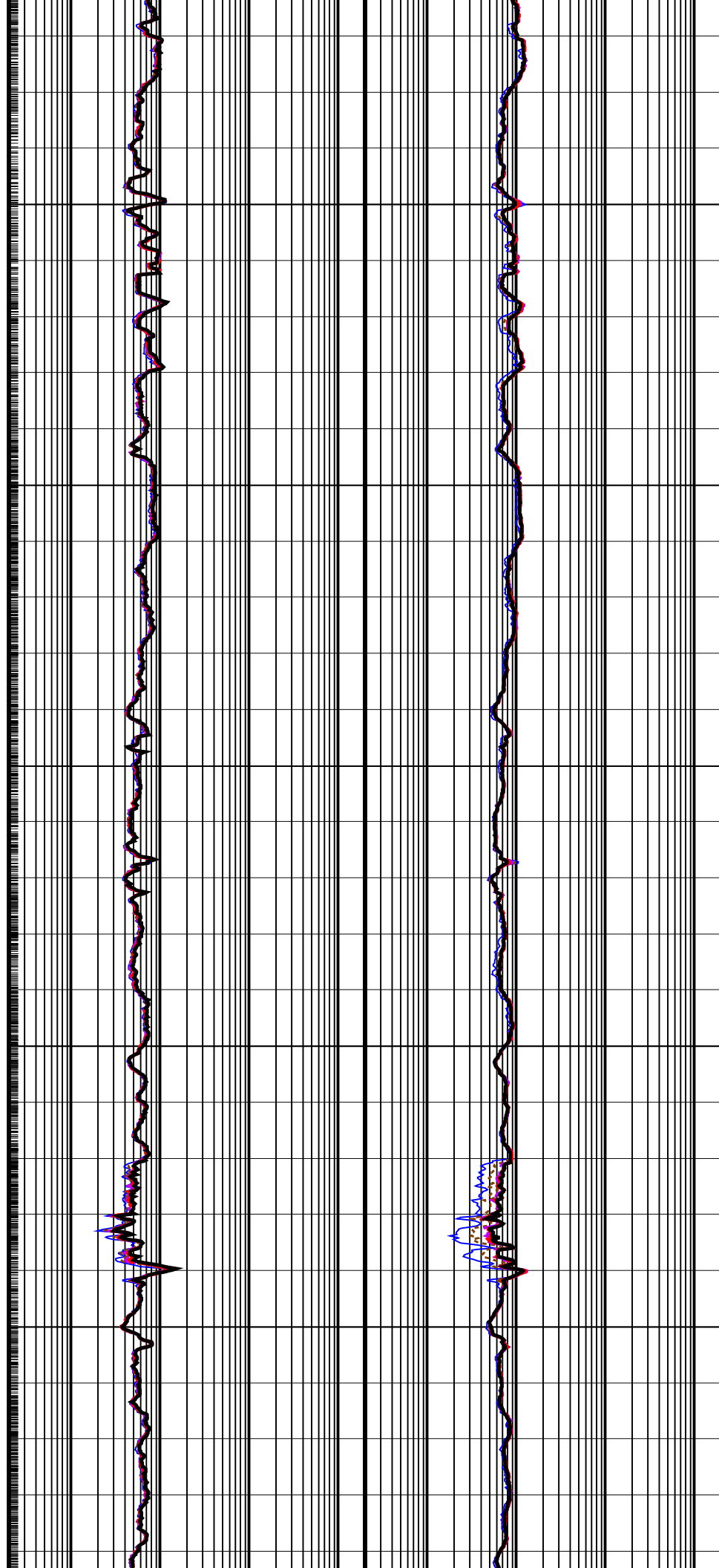
1300

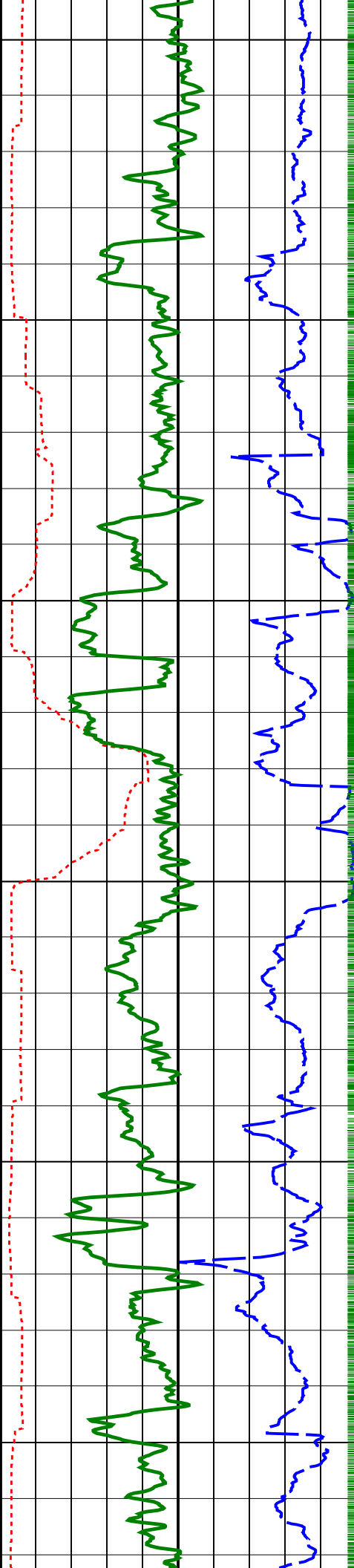




1350

1400

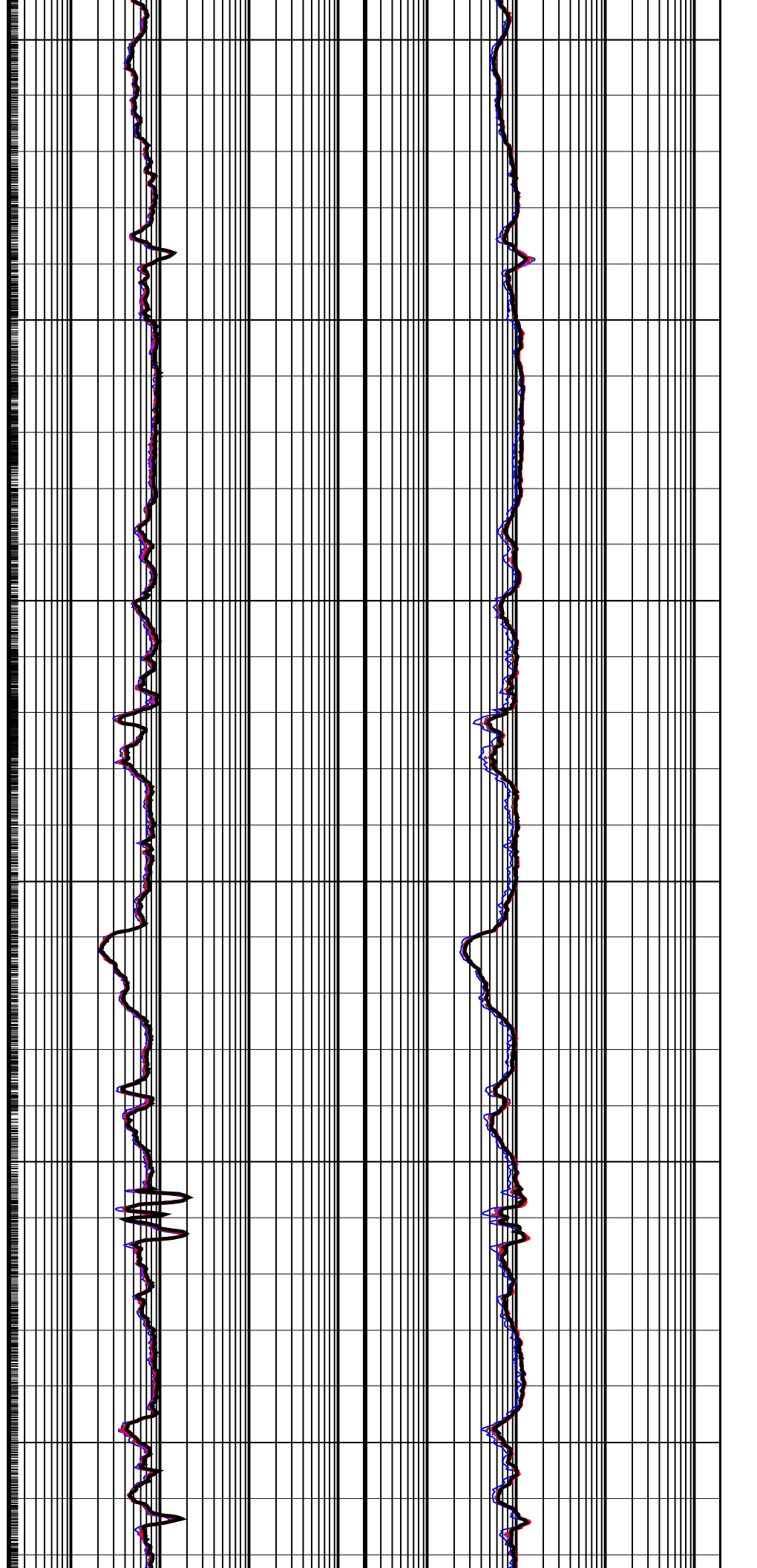


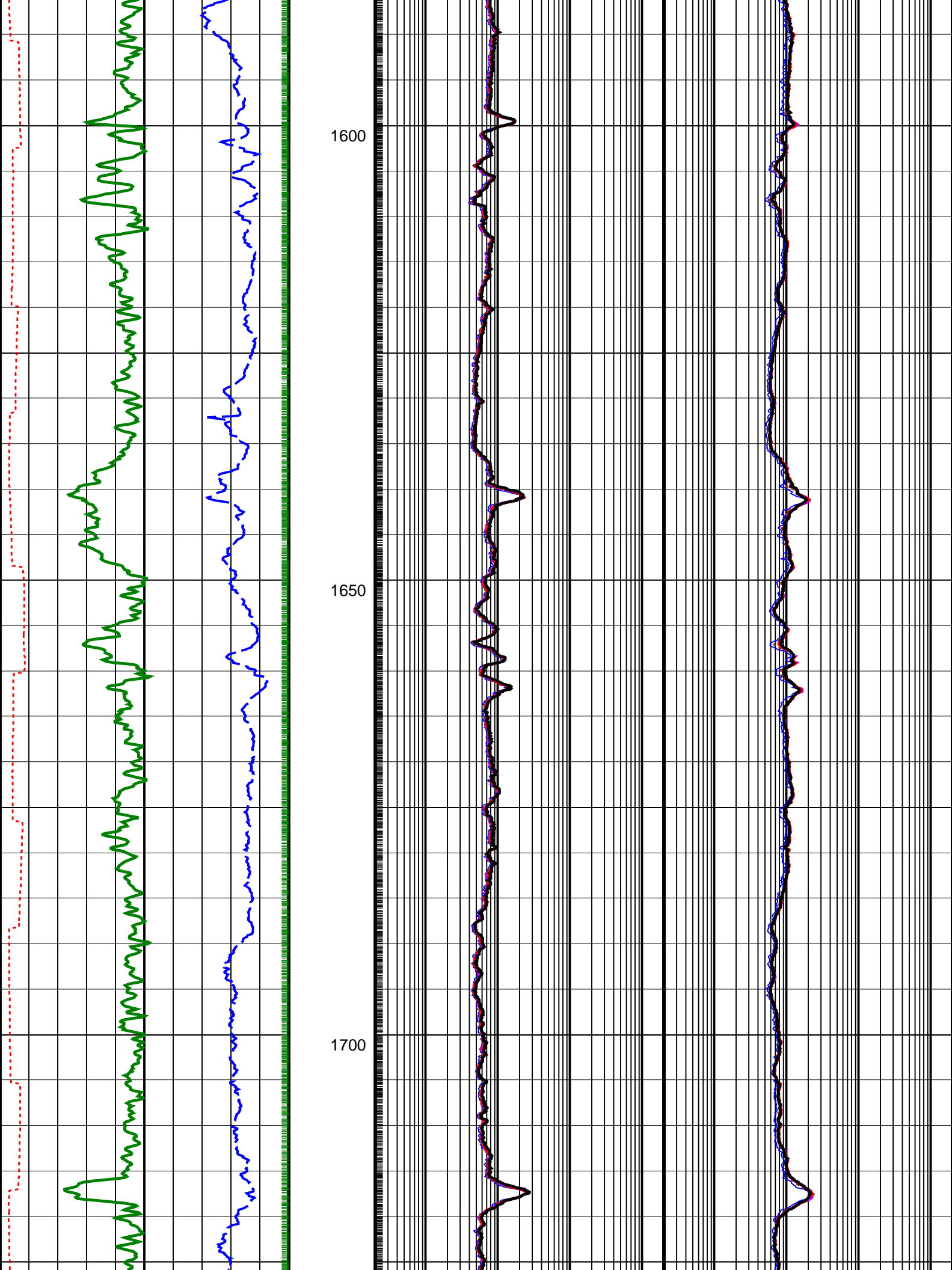


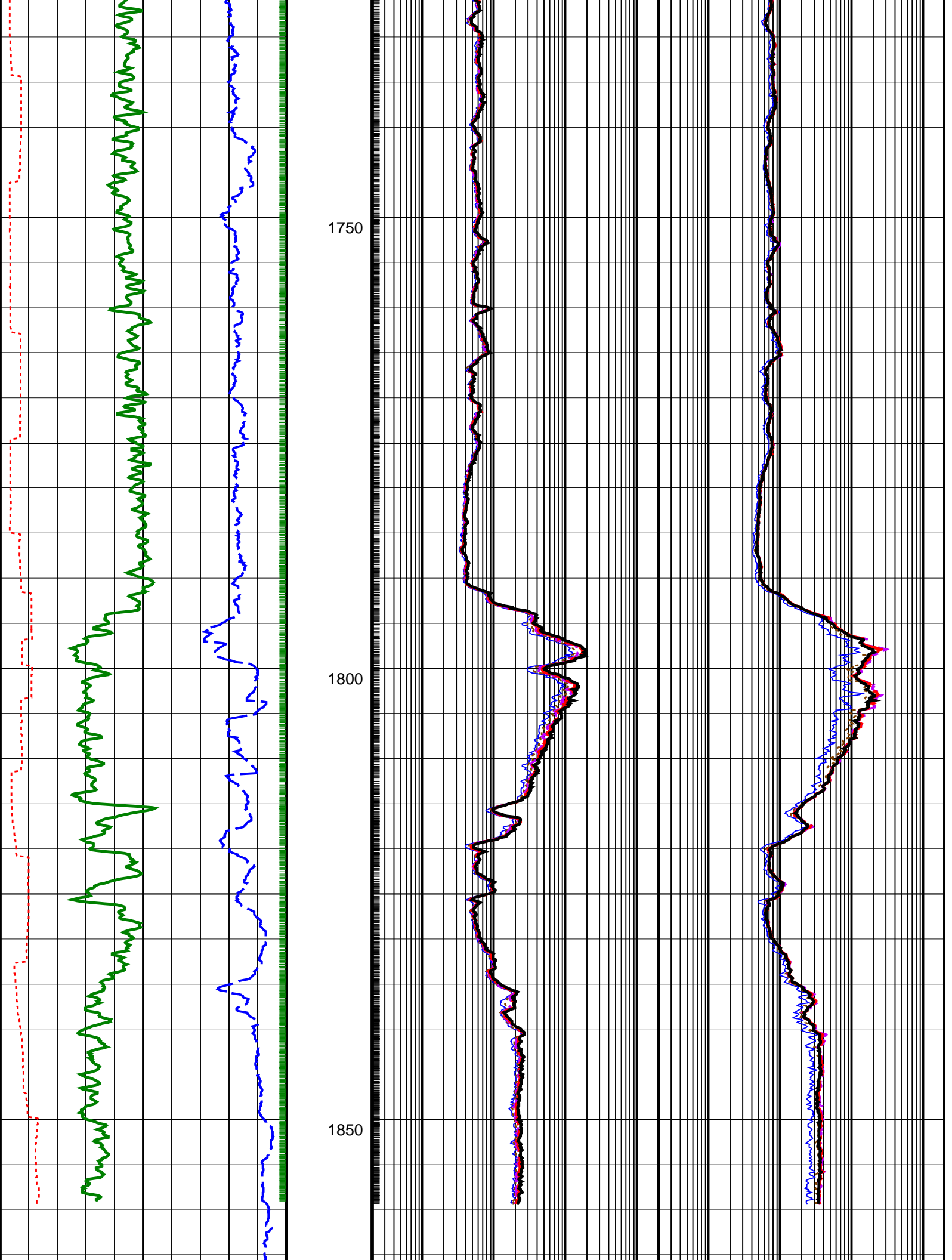
1450

1500

1550







[illegible]

## PIP SUMMARY

### ARC Gamma Ray Samples

- ARC Resistivity Samples

**IDEAL Version: ID13\_0C\_08**

IDF

**ARC8A-AA**

id13 0c 02

MWD 10

id13 0c 02

### 8.25—in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:

Tool Name and Serial Number

### ARC825 Calibration Status

ARC8 – AA










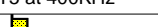
Valid

8084

Master: 16-Jul-2008 15:02

### 8.25-in. Array Resistivity Compensated Calibration

Resistivity: Air











|        |   |                     |                    |        |   |                     |                    |        |   |                     |                    |
|--------|---|---------------------|--------------------|--------|---|---------------------|--------------------|--------|---|---------------------|--------------------|
| Phase  | Phase-Shift T1  |                     | Value              | Phase  | Phase-Shift T2  |                     | Value              | Phase  | Phase-Shift T3  |                     | Value              |
| Master |  |                     | 1.960              | Master |  |                     | -1.862             | Master |  |                     | 1.851              |
|        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |
| Phase  | Phase-Shift T4  |                     | Value              | Phase  | Phase-Shift T5  |                     | Value              | Phase  | Phase-Shift T1 at 400KHz  |                     | Value              |
| Master |  |                     | -1.940             | Master |  |                     | 1.831              | Master |  |                     | 0.4912             |
|        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |
| Phase  | Phase-Shift T2 at 400KHz  |                     | Value              | Phase  | Phase-Shift T3 at 400KHz  |                     | Value              | Phase  | Phase-Shift T4 at 400KHz  |                     | Value              |
| Master |  |                     | -0.5722            | Master |  |                     | 0.5060             | Master |  |                     | -0.5776            |
|        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |
| Phase  | Phase-Shift T5 at 400KHz  |                     | Value              |        |   |                     |                    |        |   |                     |                    |
| Master |  |                     | 0.5110             |        |   |                     |                    |        |   |                     |                    |
|        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        |   |                     |                    |        |   |                     |                    |


Master: 16-Jul-2008 15:02

8.25-in. Array Resistivity Compensated Calibration











Resistivity: Air







[illegible]

|        |   |                    |                    |  |   |                    |  |        |   |                    |                    |
|--------|---|--------------------|--------------------|--|---|--------------------|--|--------|---|--------------------|--------------------|
| Master |     | 8.020              | Master             |  | 6.677   | Master             |  | 4.724  |   |                    |                    |
|        | 6.500<br>(Minimum)  | 8.500<br>(Nominal) | 10.50<br>(Maximum) |  | 4.500<br>(Minimum)  | 6.500<br>(Nominal) | 8.500<br>(Maximum)   |        | 2.500<br>(Minimum)  | 4.500<br>(Nominal) | 6.500<br>(Maximum) |
| Phase  | Attenuation T4  |                    | Value              | Phase  | Attenuation T5  |                    | Value  | Phase  | Attenuation T1 at 400KHz  |                    | Value              |
| Master |  |                    | 4.625              | Master   |  |                    | 3.309  | Master |  |                    | 7.994              |
|        | 2.600<br>(Minimum)  | 4.600<br>(Nominal) | 6.600<br>(Maximum) |  | 1.600<br>(Minimum)  | 3.600<br>(Nominal) | 5.600<br>(Maximum)   |        | 6.500<br>(Minimum)  | 8.500<br>(Nominal) | 10.50<br>(Maximum) |
| Phase  | Attenuation T2 at 400KHz  |                    | Value              | Phase  | Attenuation T3 at 400KHz  |                    | Value  | Phase  | Attenuation T4 at 400KHz  |                    | Value              |
| Master |  |                    | 6.710              | Master   |  |                    | 4.692  | Master |  |                    | 4.657              |
|        | 4.500<br>(Minimum)  | 6.500<br>(Nominal) | 8.500<br>(Maximum) |  | 2.500<br>(Minimum)  | 4.500<br>(Nominal) | 6.500<br>(Maximum)   |        | 2.600<br>(Minimum)  | 4.600<br>(Nominal) | 6.600<br>(Maximum) |
| Phase  | Attenuation T5 at 400KHz  |                    | Value              |  |   |                    |  |        |   |                    |                    |
| Master |  |                    | 3.289              |  |   |                    |  |        |   |                    |                    |
|        | 1.600<br>(Minimum)  | 3.600<br>(Nominal) | 5.600<br>(Maximum) |  |   |                    |  |        |   |                    |                    |





|  |   |  |  |  |  |  |  |  |  |                    |                    |
|--|---|--|--|--|--|--|--|--|--|--------------------|--------------------|
| Master: 15-Jun-2008 17:32                          |   |  |  |  |  |  |  |  |  |                    |                    |
| 8.25-in. Array Resistivity Compensated Calibration |   |  |  |  |  |  |  |  |  |                    |                    |
| Gamma Ray: Blanket                                 |   |  |  |  |  |  |  |  |  |                    |                    |
| Phase  | Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS      |  |  |  |  |  |  |  |  | Value              |                    |
| Master   |  |  |  |  |  |  |  |  |  |                    | 7.590              |
|  | 4.960<br>(Minimum)  |  |  |  |  |  |  |  |  | 7.200<br>(Nominal) | 9.650<br>(Maximum) |

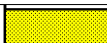
|   |  |  |  |  |  |           |  |      |  |  |  |
|---|--|--|--|--|--|-----------|--|------|--|--|--|
| 8.25-in. Array Resistivity Compensated / Equipment Identification |  |  |  |  |  |           |  |      |  |  |  |
| Primary Equipment:  |  |  |  |  |  |           |  |      |  |  |  |
| Tool Name and Serial Number                                       |  |  |  |  |  | ARC8 – AA |  | 8316 |  |  |  |
| ARC825 Calibration Status   |  |  |  |  |  | Valid     |  |      |  |  |  |

|  |   |                     |                    |        |   |                     |                    |        |   |                     |                    |
|--|---|---------------------|--------------------|--------|---|---------------------|--------------------|--------|---|---------------------|--------------------|
| Master: 17-Jul-2008 15:03                          |   |                     |                    |        |   |                     |                    |        |   |                     |                    |
| 8.25-in. Array Resistivity Compensated Calibration |   |                     |                    |        |   |                     |                    |        |   |                     |                    |
| Resistivity: Air                                   |   |                     |                    |        |   |                     |                    |        |   |                     |                    |
| Phase  | Phase-Shift T1  |                     | Value              | Phase  | Phase-Shift T2  |                     | Value              | Phase  | Phase-Shift T3  |                     | Value              |
| Master   |  |                     | -1.295             | Master |  |                     | 1.364              | Master |  |                     | -1.375             |
|  | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |
| Phase  | Phase-Shift T4  |                     | Value              | Phase  | Phase-Shift T5  |                     | Value              | Phase  | Phase-Shift T1 at 400KHz  |                     | Value              |
| Master   |  |                     | 1.321              | Master |  |                     | -1.400             | Master |  |                     | 1.663              |
|  | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |
| Phase  | Phase-Shift T2 at 400KHz  |                     | Value              | Phase  | Phase-Shift T3 at 400KHz  |                     | Value              | Phase  | Phase-Shift T4 at 400KHz  |                     | Value              |
| Master   |  |                     | -1.688             | Master |  |                     | 1.672              | Master |  |                     | -1.701             |
|  | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |
| Phase  | Phase-Shift T5 at 400KHz  |                     | Value              |        |   |                     |                    |        |   |                     |                    |
| Master   |  |                     | 1.648              |        |   |                     |                    |        |   |                     |                    |
|  | -3.900<br>(Minimum)   | 0.1000<br>(Nominal) | 4.100<br>(Maximum) |        |   |                     |                    |        |   |                     |                    |

|  |   |                    |                    |        |   |                    |                    |        |   |                    |                    |
|--|---|--------------------|--------------------|--------|---|--------------------|--------------------|--------|---|--------------------|--------------------|
| Master: 17-Jul-2008 15:03                          |   |                    |                    |        |   |                    |                    |        |   |                    |                    |
| 8.25-in. Array Resistivity Compensated Calibration |   |                    |                    |        |   |                    |                    |        |   |                    |                    |
| Resistivity: Air                                   |   |                    |                    |        |   |                    |                    |        |   |                    |                    |
| Phase  | Attenuation T1  |                    | Value              | Phase  | Attenuation T2  |                    | Value              | Phase  | Attenuation T3  |                    | Value              |
| Master   |  |                    | 8.267              | Master |  |                    | 6.374              | Master |  |                    | 4.991              |
|  | 6.500<br>(Minimum)  | 8.500<br>(Nominal) | 10.50<br>(Maximum) |        | 4.500<br>(Minimum)  | 6.500<br>(Nominal) | 8.500<br>(Maximum) |        | 2.500<br>(Minimum)  | 4.500<br>(Nominal) | 6.500<br>(Maximum) |
| Phase  | Attenuation T4  |                    | Value              | Phase  | Attenuation T5  |                    | Value              | Phase  | Attenuation T1 at 400KHz  |                    | Value              |
| Master   |  |                    | 4.337              | Master |  |                    | 3.582              | Master |  |                    | 8.197              |
|  | 2.600<br>(Minimum)  | 4.600<br>(Nominal) | 6.600<br>(Maximum) |        | 1.600<br>(Minimum)  | 3.600<br>(Nominal) | 5.600<br>(Maximum) |        | 6.500<br>(Minimum)  | 8.500<br>(Nominal) | 10.50<br>(Maximum) |



| Phase  | Attenuation T2 at 400KHz  |                    | Value              | Phase  | Attenuation T3 at 400KHz  |                    | Value              | Phase  | Attenuation T4 at 400KHz  |                    | Value              |
|--------|---|--------------------|--------------------|--------|---|--------------------|--------------------|--------|---|--------------------|--------------------|
| Master |    |                    | 6.450              | Master |  |                    | 4.915              | Master |  |                    | 4.410              |
|        | 4.500<br>(Minimum)  | 6.500<br>(Nominal) | 8.500<br>(Maximum) |        | 2.500<br>(Minimum)  | 4.500<br>(Nominal) | 6.500<br>(Maximum) |        | 2.600<br>(Minimum)  | 4.600<br>(Nominal) | 6.600<br>(Maximum) |
| Phase  | Attenuation T5 at 400KHz  |                    | Value              |        |   |                    |                    |        |   |                    |                    |
| Master |  |                    | 3.513              |        |   |                    |                    |        |   |                    |                    |
|        | 1.600<br>(Minimum)  | 3.600<br>(Nominal) | 5.600<br>(Maximum) |        |   |                    |                    |        |   |                    |                    |

|  |   |                    |                    |
|--|---|--------------------|--------------------|
| Master: 17-Jul-2008 20:12                          |   |                    |                    |
| 8.25-in. Array Resistivity Compensated Calibration |   |                    |                    |
| Gamma Ray: Blanket                                 |   |                    |                    |
| Phase  | Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS      |                    | Value              |
| Master   |  |                    | 7.763              |
|  | 4.960<br>(Minimum)  | 7.200<br>(Nominal) | 9.650<br>(Maximum) |

## SCHLUMBERGER

Survey report 31-Jul-2008 05:53:28 Page 1 of 4

Client.....: Santos Ltd  
Field.....: Otway

Well.....: Netherby-1 Spud date.....: 15-Jul-08  
API number.....: Last survey date.....: 31-Jul-08  
Engineer.....: J. Oldridge / Z. Rudd Total accepted surveys...: 63  
MD of first survey.....: 0.00 m  
RIG.....: Ocean Patriot MD of last survey.....: 1875.00 m  
STATE.....: Victoria

|  |   |
|--|---|
| ----- Survey calculation methods-----        | ----- Geomagnetic data -----                            |
| Method for positions.....: Minimum curvature | Magnetic model.....: BGGM version 2007                  |
| Method for DLS.....: Mason & Taylor          | Magnetic date.....: 20-Jul-2008                         |
|  | Magnetic field strength...: 1215.19 HCNT                |
| ----- Depth reference -----                  | Magnetic dec (+E/W-).....: 10.78 degrees                |
| Permanent datum.....: Mean Sea Level         | Magnetic dip.....: -69.86 degrees                       |
| Depth reference.....: Driller's Depth        |   |
| GL above permanent.....: -66.10 m            | ----- MWD survey Reference Criteria -----               |
| KB above permanent.....: Top Drive           | Reference G.....: 1000.07 mGal                          |
| DF above permanent.....: 20.80 m             | Reference H.....: 1215.19 HCNT                          |
|  | Reference Dip.....: -69.86 degrees                      |
| ----- Vertical section origin-----           | Tolerance of G.....: (+/-) 2.50 mGal                    |
| Latitude (+N/S-).....: 0.00 m                | Tolerance of H.....: (+/-) 6.00 HCNT                    |
| Departure (+E/W-).....: 0.00 m               | Tolerance of Dip.....: (+/-) 0.45 degrees               |
| ----- Platform reference point-----          | ----- Corrections -----                                 |
| Latitude (+N/S-).....: -----                 | Magnetic dec (+E/W-).....: 10.78 degrees                |
| Departure (+E/W-).....: -----                | Grid convergence (+E/W-)..: -1.03 degrees               |
|  | Total az corr (+E/W-).....: 11.81 degrees               |
| Azimuth from Vsect Origin to target:         | 0.00 degrees (Total az corr = magnetic dec - grid conv) |
|  | Survey Correction Type ....                             |
|  | I=Sag Corrected Inclination                             |

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| Seq<br># | Measured<br>depth<br>(m) | Incl<br>angle<br>(deg) | Azimuth<br>angle<br>(deg) | Course<br>length<br>(m) | TVD<br>depth<br>(m) | Vertical<br>section<br>(m) | Displ<br>+N/S-<br>(m) | Displ<br>+E/W-<br>(m) | Displ<br>Total<br>(deg) | At<br>Azim<br>(deg) | DLS<br>(deg/100f) | Srvy<br>Tool | Tool<br>Corr |
|----------|--------------------------|------------------------|---------------------------|-------------------------|---------------------|----------------------------|-----------------------|-----------------------|-------------------------|---------------------|-------------------|--------------|--------------|
| 1        | 0.00                     | 0.00                   | 0.00                      | 0.00                    | 0.00                | 0.00                       | 0.00                  | 0.00                  | 0.00                    | 0.00                | 0.00              | TIP          | None         |
| 2        | 87.00                    | 0.00                   | 0.00                      | 87.00                   | 87.00               | 0.00                       | 0.00                  | 0.00                  | 0.00                    | 0.00                | 0.00              | SB           | None         |
| 3        | 110.29                   | 0.34                   | 228.85                    | 23.29                   | 110.29              | -0.05                      | -0.05                 | -0.05                 | 0.07                    | 228.85              | 0.44              | EMS          | None         |
| 4        | 139.31                   | 0.48                   | 70.38                     | 29.02                   | 139.31              | -0.06                      | -0.06                 | -0.00                 | 0.06                    | 182.21              | 0.85              | EMS          | None         |
| 5        | 168.50                   | 0.56                   | 302.02                    | 29.19                   | 168.50              | 0.06                       | 0.06                  | -0.01                 | 0.06                    | 351.63              | 0.98              | EMS          | None         |
| 6        | 196.58                   | 0.62                   | 250.43                    | 28.08                   | 196.58              | 0.08                       | 0.08                  | -0.27                 | 0.28                    | 286.10              | 0.56              | EMS          | None         |
| 7        | 224.66                   | 0.70                   | 303.64                    | 28.08                   | 224.66              | 0.12                       | 0.12                  | -0.55                 | 0.57                    | 282.37              | 0.65              | EMS          | None         |
| 8        | 252.74                   | 0.64                   | 294.72                    | 28.08                   | 252.73              | 0.28                       | 0.28                  | -0.84                 | 0.88                    | 288.58              | 0.13              | EMS          | None         |
| 9        | 280.80                   | 0.72                   | 298.73                    | 28.06                   | 280.79              | 0.43                       | 0.43                  | -1.14                 | 1.22                    | 290.84              | 0.10              | EMS          | None         |
| 10       | 309.51                   | 0.65                   | 287.17                    | 28.71                   | 309.50              | 0.57                       | 0.57                  | -1.45                 | 1.56                    | 291.36              | 0.16              | EMS          | None         |
| 11       | 337.98                   | 0.69                   | 292.15                    | 28.47                   | 337.97              | 0.68                       | 0.68                  | -1.76                 | 1.89                    | 291.08              | 0.08              | EMS          | None         |
| 12       | 366.89                   | 0.70                   | 359.25                    | 28.91                   | 366.88              | 0.92                       | 0.92                  | -1.93                 | 2.14                    | 295.57              | 0.81              | EMS          | None         |
| 13       | 395.80                   | 0.92                   | 12.26                     | 28.91                   | 395.78              | 1.32                       | 1.32                  | -1.88                 | 2.30                    | 305.19              | 0.30              | EMS          | None         |
| 14       | 424.75                   | 0.87                   | 19.30                     | 28.95                   | 424.73              | 1.76                       | 1.76                  | -1.76                 | 2.49                    | 315.04              | 0.13              | EMS          | None         |
| 15       | 453.68                   | 0.56                   | 88.31                     | 28.93                   | 453.66              | 1.97                       | 1.97                  | -1.54                 | 2.50                    | 321.94              | 0.89              | EMS          | None         |
| 16       | 482.49                   | 0.59                   | 96.35                     | 28.81                   | 482.47              | 1.96                       | 1.96                  | -1.26                 | 2.33                    | 327.35              | 0.09              | EMS          | None         |
| 17       | 511.36                   | 0.65                   | 96.56                     | 28.87                   | 511.34              | 1.92                       | 1.92                  | -0.94                 | 2.14                    | 333.84              | 0.06              | EMS          | None         |
| 18       | 540.27                   | 0.70                   | 100.87                    | 28.91                   | 540.24              | 1.87                       | 1.87                  | -0.61                 | 1.97                    | 341.99              | 0.08              | EMS          | None         |
| 19       | 569.05                   | 0.71                   | 112.99                    | 28.78                   | 569.02              | 1.77                       | 1.77                  | -0.27                 | 1.79                    | 351.27              | 0.16              | EMS          | None         |
| 20       | 597.90                   | 0.69                   | 128.34                    | 28.85                   | 597.87              | 1.59                       | 1.59                  | 0.03                  | 1.59                    | 1.05                | 0.20              | EMS          | None         |
| 21       | 617.15                   | 0.84                   | 123.17                    | 19.25                   | 617.12              | 1.44                       | 1.44                  | 0.24                  | 1.46                    | 9.38                | 0.26              | EMS          | None         |
| 22       | 634.46                   | 0.94                   | 124.68                    | 17.31                   | 634.42              | 1.29                       | 1.29                  | 0.46                  | 1.37                    | 19.65               | 0.18              | EMS          | None         |
| 23       | 660.03                   | 0.52                   | 130.06                    | 25.57                   | 659.99              | 1.10                       | 1.10                  | 0.72                  | 1.31                    | 33.35               | 0.51              | MWD          | None         |
| 24       | 745.26                   | 2.31                   | 160.81                    | 85.23                   | 745.19              | -0.77                      | -0.77                 | 1.58                  | 1.76                    | 116.04              | 0.67              | MWD          | None         |
| 25       | 773.50                   | 4.27                   | 158.54                    | 28.24                   | 773.39              | -2.29                      | -2.29                 | 2.15                  | 3.14                    | 136.73              | 2.12              | MWD          | None         |
| 26       | 801.23                   | 5.89                   | 157.85                    | 27.73                   | 801.01              | -4.57                      | -4.57                 | 3.07                  | 5.50                    | 146.11              | 1.78              | MWD          | None         |
| 27       | 831.43                   | 7.57                   | 152.25                    | 30.20                   | 831.00              | -7.76                      | -7.76                 | 4.58                  | 9.01                    | 149.47              | 1.82              | MWD          | None         |
| 28       | 859.94                   | 9.31                   | 137.33                    | 28.51                   | 859.20              | -11.12                     | -11.12                | 7.02                  | 13.15                   | 147.75              | 2.98              | MWD          | None         |
| 29       | 889.70                   | 11.19                  | 126.87                    | 29.76                   | 888.49              | -14.63                     | -14.63                | 10.96                 | 18.28                   | 143.15              | 2.70              | MWD          | None         |
| 30       | 919.19                   | 12.15                  | 123.94                    | 29.49                   | 917.37              | -18.08                     | -18.08                | 15.82                 | 24.02                   | 138.80              | 1.17              | MWD          | None         |

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| Seq<br># | Measured<br>depth<br>(m) | Incl<br>angle<br>(deg) | Azimuth<br>angle<br>(deg) | Course<br>length<br>(m) | TVD<br>depth<br>(m) | Vertical<br>section<br>(m) | Displ<br>+N/S-<br>(m) | Displ<br>+E/W-<br>(m) | Displ<br>Total<br>(deg) | At<br>Azim<br>(deg) | DLS<br>(deg/100f) | Srvy<br>Tool | Tool<br>Corr |
|----------|--------------------------|------------------------|---------------------------|-------------------------|---------------------|----------------------------|-----------------------|-----------------------|-------------------------|---------------------|-------------------|--------------|--------------|
| 31       | 948.90                   | 12.93                  | 122.08                    | 29.71                   | 946.37              | -21.59                     | -21.59                | 21.23                 | 30.28                   | 135.47              | 0.90              | MWD          | None         |
| 32       | 979.41                   | 13.44                  | 120.85                    | 30.51                   | 976.07              | -25.22                     | -25.22                | 27.17                 | 37.07                   | 132.86              | 0.58              | MWD          | None         |
| 33       | 1007.51                  | 14.16                  | 120.45                    | 28.10                   | 1003.36             | -28.63                     | -28.63                | 32.94                 | 43.64                   | 131.00              | 0.79              | MWD          | None         |
| 34       | 1036.14                  | 14.55                  | 118.54                    | 28.63                   | 1031.10             | -32.13                     | -32.13                | 39.12                 | 50.62                   | 129.40              | 0.65              | MWD          | None         |
| 35       | 1065.20                  | 14.60                  | 118.24                    | 29.06                   | 1059.22             | -35.60                     | -35.60                | 45.55                 | 57.81                   | 128.01              | 0.09              | MWD          | None         |
| 36       | 1096.08                  | 14.09                  | 118.27                    | 30.88                   | 1089.14             | -39.23                     | -39.23                | 52.29                 | 65.37                   | 126.88              | 0.50              | MWD          | None         |
| 37       | 1124.66                  | 14.01                  | 116.68                    | 28.58                   | 1116.87             | -42.43                     | -42.43                | 58.44                 | 72.22                   | 125.98              | 0.42              | MWD          | None         |
| 38       | 1153.50                  | 15.82                  | 116.95                    | 28.84                   | 1144.73             | -45.78                     | -45.78                | 65.07                 | 79.56                   | 125.13              | 1.91              | MWD          | None         |
| 39       | 1182.04                  | 19.92                  | 117.65                    | 28.54                   | 1171.89             | -49.80                     | -49.80                | 72.84                 | 88.24                   | 124.36              | 4.38              | MWD          | None         |
| 40       | 1210.10                  | 23.56                  | 117.60                    | 28.06                   | 1197.95             | -54.62                     | -54.62                | 82.05                 | 98.57                   | 123.65              | 3.95              | MWD          | None         |
| 41       | 1239.36                  | 25.76                  | 114.79                    | 29.26                   | 1224.54             | -59.99                     | -59.99                | 93.01                 | 110.68                  | 122.82              | 2.60              | MWD          | None         |
| 42       | 1267.39                  | 29.36                  | 115.62                    | 28.03                   | 1249.39             | -65.52                     | -65.52                | 104.74                | 123.54                  | 122.03              | 3.94              | MWD          | None         |
| 43       | 1294.27                  | 33.74                  | 116.12                    | 26.88                   | 1272.29             | -71.66                     | -71.66                | 117.39                | 137.53                  | 121.40              | 4.98              | MWD          | None         |
| 44       | 1322.42                  | 33.97                  | 116.49                    | 28.15                   | 1295.67             | -78.61                     | -78.61                | 131.45                | 153.16                  | 120.88              | 0.33              | MWD          | None         |
| 45       | 1350.13                  | 34.69                  | 115.42                    | 27.71                   | 1318.55             | -85.44                     | -85.44                | 145.50                | 168.73                  | 120.42              | 1.03              | MWD          | None         |
| 46       | 1379.95                  | 34.59                  | 115.60                    | 29.82                   | 1343.08             | -92.74                     | -92.74                | 160.80                | 185.63                  | 119.98              | 0.15              | MWD          | None         |
| 47       | 1408.27                  | 35.05                  | 116.50                    | 28.32                   | 1366.33             | -99.85                     | -99.85                | 175.32                | 201.76                  | 119.66              | 0.74              | MWD          | None         |
| 48       | 1436.16                  | 34.88                  | 116.15                    | 27.89                   | 1389.19             | -106.93                    | -106.93               | 189.65                | 217.72                  | 119.42              | 0.29              | MWD          | None         |
| 49       | 1465.63                  | 35.16                  | 116.10                    | 29.47                   | 1413.32             | -114.38                    | -114.38               | 204.83                | 234.60                  | 119.18              | 0.29              | MWD          | None         |
| 50       | 1494.27                  | 35.09                  | 116.37                    | 28.64                   | 1436.75             | -121.67                    | -121.67               | 219.61                | 251.06                  | 118.99              | 0.18              | MWD          | None         |
| 51       | 1523.47                  | 35.39                  | 116.22                    | 29.20                   | 1460.60             | -129.13                    | -129.13               | 234.72                | 267.89                  | 118.82              | 0.33              | MWD          | None         |
| 52       | 1552.94                  | 35.14                  | 115.95                    | 29.47                   | 1484.66             | -136.61                    | -136.61               | 250.00                | 284.89                  | 118.65              | 0.30              | MWD          | None         |
| 53       | 1581.55                  | 35.10                  | 115.95                    | 28.61                   | 1508.06             | -143.81                    | -143.81               | 264.80                | 301.33                  | 118.51              | 0.04              | MWD          | None         |
| 54       | 1610.85                  | 35.09                  | 116.84                    | 29.30                   | 1532.03             | -151.30                    | -151.30               | 279.89                | 318.17                  | 118.39              | 0.53              | MWD          | None         |
| 55       | 1639.13                  | 35.01                  | 117.96                    | 28.28                   | 1555.18             | -158.78                    | -158.78               | 294.31                | 334.40                  | 118.35              | 0.70              | MWD          | None         |
| 56       | 1668.08                  | 34.91                  | 118.18                    | 28.95                   | 1578.91             | -166.58                    | -166.58               | 308.94                | 350.99                  | 118.33              | 0.17              | MWD          | None         |
| 57       | 1695.83                  | 34.89                  | 119.39                    | 27.75                   | 1601.67             | -174.23                    | -174.23               | 322.86                | 366.87                  | 118.35              | 0.76              | MWD          | None         |
| 58       | 1725.28                  | 34.90                  | 120.32                    | 20.45                   | 1625.82             | -182.61                    | -182.61               | 337.47                | 383.71                  | 118.42              | 0.55              | MWD          | None         |

|    |         |       |        |       |         |         |         |        |        |        |      |     |      |
|----|---------|-------|--------|-------|---------|---------|---------|--------|--------|--------|------|-----|------|
| 58 | 1725.28 | 34.96 | 120.32 | 29.43 | 1623.82 | -182.81 | -182.81 | 337.47 | 383.71 | 118.42 | 0.33 | MWD | None |
| 59 | 1753.73 | 34.99 | 120.90 | 28.45 | 1649.15 | -190.91 | -190.91 | 351.49 | 399.99 | 118.51 | 0.37 | MWD | None |
| 60 | 1781.62 | 35.06 | 120.66 | 27.89 | 1671.98 | -199.10 | -199.10 | 365.25 | 415.99 | 118.60 | 0.17 | MWD | None |

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| 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)    | (deg)  | 100f)  | type  | (deg)            |      |
| 61  | 1811.05  | 35.22 | 120.21  | 29.43  | 1696.05 | -207.68  | -207.68 | 379.85 | 432.92 | 118.67 | 0.32  | MWD              | None |
| 62  | 1838.59  | 35.18 | 119.41  | 27.54  | 1718.56 | -215.57  | -215.57 | 393.63 | 448.79 | 118.71 | 0.51  | MWD              | None |
| 63  | 1875.00  | 35.38 | 119.23  | 36.41  | 1748.28 | -225.87  | -225.87 | 411.96 | 469.82 | 118.74 | 0.06  | Projection to TD |      |

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|  |                      |                          |
|--|----------------------|--------------------------|
| Company:   | <b>Santos Ltd</b>    | <b>Schlumberger</b>      |
| Well:  | <b>Netherby-1</b>    |                          |
| Field:   | <b>Otway</b>         |                          |
| Rig:   | <b>Ocean Patriot</b> | <b>12.25 in. Section</b> |
| State:   | <b>Victoria</b>      |                          |
| <b>VISION Resistivity</b><br><b>1:500 Measured Depth</b><br><b>Recorded Mode Log</b> |                      |                          |