

| | | | | | | | | | | | |
|------------------------|-----|--------------|-----------|-------------|----------|--|--|--|--|--|--|
| Potassium | % | n.a | | | | | | | | | |
| Environmental data | | | | | | | | | | | |
| GR | | | | | | | | | | | |
| Mud weight | ppg | 11.60 | | | | | | | | | |
| Bit size | in | 12.25 | | | | | | | | | |
| Resistivity | | | | | | | | | | | |
| Neutron porosity | | | | | | | | | | | |
| Hole Size | in | n.a | | | | | | | | | |
| Mud weight | ppg | n.a | | | | | | | | | |
| Temperature | °C | n.a | | | | | | | | | |
| Mud salinity | ppk | n.a | | | | | | | | | |
| Formation salinity | | n.a | | | | | | | | | |
| Recording rate 1 | SEC | 6 (ARC) | | | | | | | | | |
| Recording rate 2 | SEC | n.a | | | | | | | | | |
| Filtering GR | | 3 pts. | | | | | | | | | |
| Filtering density | | n.a | | | | | | | | | |
| Filtering Neutron | | n.a | | | | | | | | | |
| Company representative | | G. Doty | A. Zernov | | | | | | | | |
| Anadrill personnel | | M. Amarasena | B. Low | D. B. Khanh | C. Soper | | | | | | |

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|
| <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 RUN2 Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations | OTHER SERVICES FOR RUN | OTHER SERVICES FOR RUN |
| REMARKS: RUN NUMBER 2 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 POOH due to reaching TD of 12.25 | REMARKS: RUN NUMBER | REMARKS: RUN NUMBER |

| EQUIPMENT DESCRIPTION | | |
|-----------------------|-----|-----|
| RUN2 | RUN | RUN |
| DOWNHOLE EQUIPMENT | | |

DOWNHOLE EQUIPMENT

8-1/4
DHS: 9.2C02
S/N: VR50

23.88

D&I — 19.51
MVC — 18.87

8-1/4
DHS: V9.3B
S/N: 1877

14.84

Gamma Ray — 11.47
Resistivity — 11.42

ARC APRS — 10.71

9
S/N: BN9-002

8.94

12-1/4
S/N: 218463

0.00 0.29

Maximum string diameter 12.25 in.
All lengths in Meters

| Variable Name | Variable Description | Run Name & Value | |
|-----------------|---------------------------------------------------------|------------------|--------------|
| | Run Number | | 2 |
| | General Information | | |
| BHT_RM | Bottom Hole Temperature (RM) | DEGC | 94.000 |
| BSAL_RM | Mud Salinity (RM) | PPK | 0.000 |
| BS_RM | Bit Size (RM) | IN | 12.250 |
| COEF_M | User Defined FEXP in Clean Sand | ---- | 1.650 |
| C_WS | Overpressure correction to Sw and M | ---- | 1.000 |
| FEXP | Formation Factor Exponent (RM) | ---- | 2.000 |
| FNUM | Formation Factor Enumerator (RM) | ---- | 1.000 |
| FPHI_RM | Formation Factor Porosity Source (RM) | ---- | XPLOT |
| MST_RM | Mud Sample temperature (RM) | DEGC | 23.889 |
| MW_RM | Mud Weight (RM) | LB/G | 11.600 |
| OBMF_RM | Oil Based Mud (RM) | ---- | YES |
| RHOF_RM | Mud Filtrate Density (RM) | G/C3 | 1.000 |
| RHOM_RM | Matrix density (RM) | G/C3 | 2.710 |
| RMS_RM | Resistivity of Mud Sample (RM) | OHMM | 1000.000 |
| 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 |
| SHT_RM | Ground Level Temperature (Mud-Line When Offshore) (RM) | DEGC | 10.000 |
| TD_RM | Total Measured Depth (RM) | M | 4365.000 |
| TWS_RM | Temperature of Connate Water (RM) | DEGC | 23.889 |
| VF_ILLI | Fraction of illite in shales | ---- | 0.500 |
| VF_KAOL | Fraction of kaolinite in shales | ---- | 0.500 |
| VF_MONT | Fraction of montmorillonite in shales | ---- | 0.000 |
| XPDM_RM | Cross plot density porosity multiplier | ---- | 0.675 |
| XPNM_RM | Cross plot neutron porosity multiplier | ---- | 0.325 |
| | ARC | | |
| A12A | ARC Air Cal Attenuation From T1 at 2 MHz | DB | 8.245 |
| A14A | ARC Air Cal Attenuation From T1 at 400 KHz | DB | 8.243 |
| A22A | ARC Air Cal Attenuation From T2 at 2 MHz | DB | 6.420 |
| A24A | ARC Air Cal Attenuation From T2 at 400 KHz | DB | 6.433 |
| A32A | ARC Air Cal Attenuation From T3 at 2 MHz | DB | 4.966 |
| A34A | ARC Air Cal Attenuation From T3 at 400 KHz | DB | 4.958 |
| A42A | ARC Air Cal Attenuation From T4 at 2 MHz | DB | 4.370 |
| A44A | ARC Air Cal Attenuation From T4 at 400 KHz | DB | 4.379 |
| A52A | ARC Air Cal Attenuation From T5 at 2 MHz | DB | 3.558 |
| A54A | ARC Air Cal Attenuation From T5 at 400 KHz | DB | 3.559 |
| ABNT | Abnormal Transmitter Indicator | ---- | No_Tx_Failed |
| ADHS | ARC Down Hole Software Version | ---- | 9.3B |
| AM2A | ARC Air Cal Amplitude Offset at 2 MHz | ---- | -50000.000 |
| ANISO_COMPUTE | Anisotropy Computation Option | ---- | YES |
| APICG | ARC5 Gamma Ray Gain Factor | ---- | 1.052 |
| APIG | ARC Gamma Ray API Gain Factor | ---- | -1.000 |
| ARC_DATA_FIX | ARC: Create A Corrected ARC Time Data File | ---- | NO |
| ARC_DATA_LTB | ARC: Create An ARC LTB Data File | ---- | NO |
| ATMP_ARC | ARC Select Temperature Channel | ---- | Annulus_Temp |
| ATRN | ARC Tool Run Number | ---- | 2 |
| ATSN | ARC Tool Serial Number | ---- | 1877 |
| AZMF | Formation DIP Azimuth | DEG | 0.000 |
| BH_COMPUTE | Borehole Inversion Computation Option | ---- | YES |
| CALG | ARC Gamma Ray Cal Gain Factor | ---- | 1.052 |
| CALI_SLCT_ARC | ARC Caliper Selection | ---- | BITSIZE |
| CDPTH_ARC | Process Start Depth | M | 30.480 |
| DIELEC_COMPUTE | Dielectric Computation Option | ---- | YES |
| DIPF | Formation DIP Angle | DEG | 0.000 |
| ERRCT | Percentage Error Cutoff | ---- | 4.500 |
| GRSH | GR Shale (Invasion Computation Cutoff) | GAPI | 1000.000 |
| HIGH_BLEND | High Resistivity Threshold for Blending | OHMM | 2.000 |
| INCLIN_B0 | ARC Bias Constant (mg) | ---- | 0.000 |
| INCLIN_B1 | ARC Bias First-order Coefficient (mg/degC) | ---- | 0.000 |
| INCLIN_B2 | ARC Bias Secod-order Coeeficient (mg/degC) | ---- | 0.000 |
| INCLIN_B3 | ARC Bias Third-order Coeeficient (mg/degC) | ---- | 0.000 |
| INCLIN_C0 | ARC Current Scale Factor Constant (mA/g) | ---- | 1.000 |
| INCLIN_C1 | ARC Scale First-order Coeeficient (mA/g/degC) | ---- | 0.000 |
| INCLIN_C2 | ARC Scale Second-order Coeeficient (mA/g/degC) | ---- | 0.000 |
| INCLIN_C3 | ARC Scale Third-order Coeeficient (mA/g/degC) | ---- | 0.000 |
| INVAS_COMPUTE | Invasion Computation Option | ---- | YES |
| JSD_ARC | ARC Acquisition start date | ---- | 15-Sep-08 |
| KPER | Potassium Concentration (RM) | ---- | 0.000 |
| LOW_BLEND | Low Resistivity Threshold for Blending | OHMM | 1.000 |
| MSWS | ARC Wizard Model Switch Window | M | 1.524 |
| MULTIEFFECT_COM | Multi Effect Option | ---- | YES |
| P11AC_RM | ARC: Air Calibration For Phase T1 to R1 | DEG | -999.250 |
| P12A | ARC Air Cal Phase-Shift From T1 at 2 MHz | DEG | 1.653 |
| P14A | ARC Air Cal Phase-Shift From T1 at 400 KHz | DEG | 0.001 |
| P22A | ARC Air Cal Phase-Shift From T2 at 2 MHz | DEG | -1.561 |
| P24A | ARC Air Cal Phase-Shift From T2 at 400 KHz | DEG | -0.096 |
| P32A | ARC Air Cal Phase-Shift From T3 at 2 MHz | DEG | 1.576 |
| P34A | ARC Air Cal Phase-Shift From T3 at 400 KHz | DEG | 0.036 |
| P42A | ARC Air Cal Phase-Shift From T4 at 2 MHz | DEG | -1.570 |
| P44A | ARC Air Cal Phase-Shift From T4 at 400 KHz | DEG | -0.102 |
| P52A | ARC Air Cal Phase-Shift From T5 at 2 MHz | DEG | 1.519 |
| P54A | ARC Air Cal Phase-Shift From T5 at 400 KHz | DEG | 0.013 |

| | | | |
|-----------------|--------------------------------------------------------------|------|------------|
| POFFSET_ARC | ARC: Pressure Offset | PSI | 0.000 |
| PRTD | Preferred Resistivity Log for Rt Display while Multi-Effects | ---- | P34B |
| PSOF_ADJ_T1 | ARC: User Input Phase offset | DEG | 0.000 |
| RESTIK | ARC resistivity tick source | ---- | Phase |
| RSD | LWD run start date dd-mmm-yy | OHMM | 1000.000 |
| RWA_COMP_MOD | Rwa computation model | ---- | BASIC |
| RWA_DEN_ADN | Rwa Density Input | ---- | RHOB |
| RWA_DEN_CDN | Rwa Density Input | ---- | RHOB |
| RWA_DEN_INPUT | Rwa Density Input | ---- | RHOB |
| RWA_FORM_MOD | Rwa computation formation model | ---- | CLASTIC |
| RWA_RES_INPUT | Rwa computation resistivity input | ---- | RT |
| SHIG | ARC High Shock Risk Level | CPS | 0.500 |
| SMED | ARC Medium Shock Risk Level | CPS | 0.330 |
| SMIN | ARC Minimum Shock Risk Level | CPS | 0.160 |
| SUPD | ARC Real Time Shock Update Rate | S | 30.000 |
| TCODE_ARC | ARC Tool File Code | S | 30.000 |
| TSIZ_ARC | ARC Tool Size | IN | 8.250 |
| UNIFORM_COMPUTE | Uniform Rock Option | ---- | YES |
| VERS_ARC | ARC Down hole software version Number | ---- | 9.300 |
| WRK | to Report Potassium Concentration (RM) | ---- | K_by_Wgt_% |

IDEAL Version: ID14_0C_02

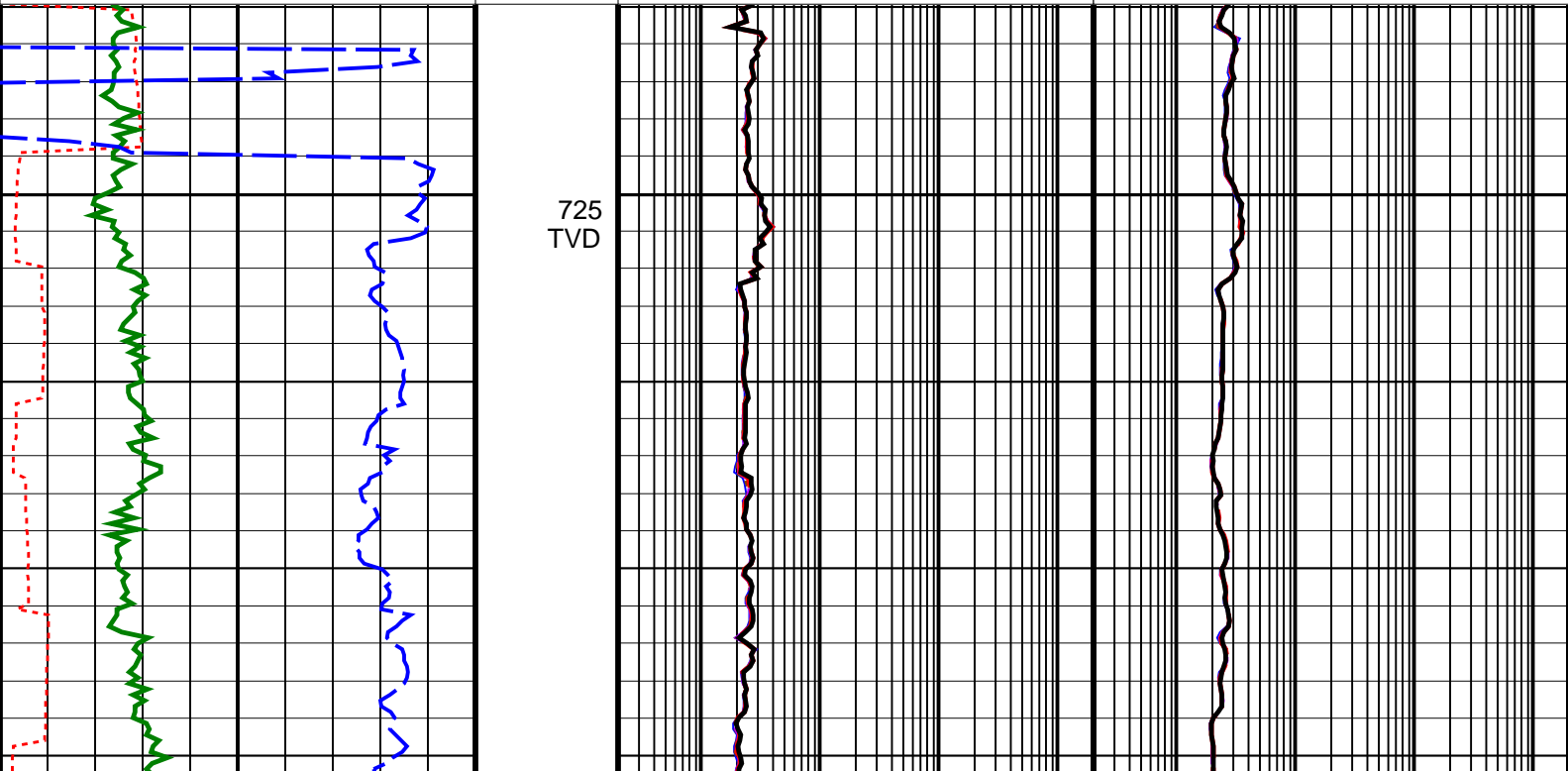
IDF

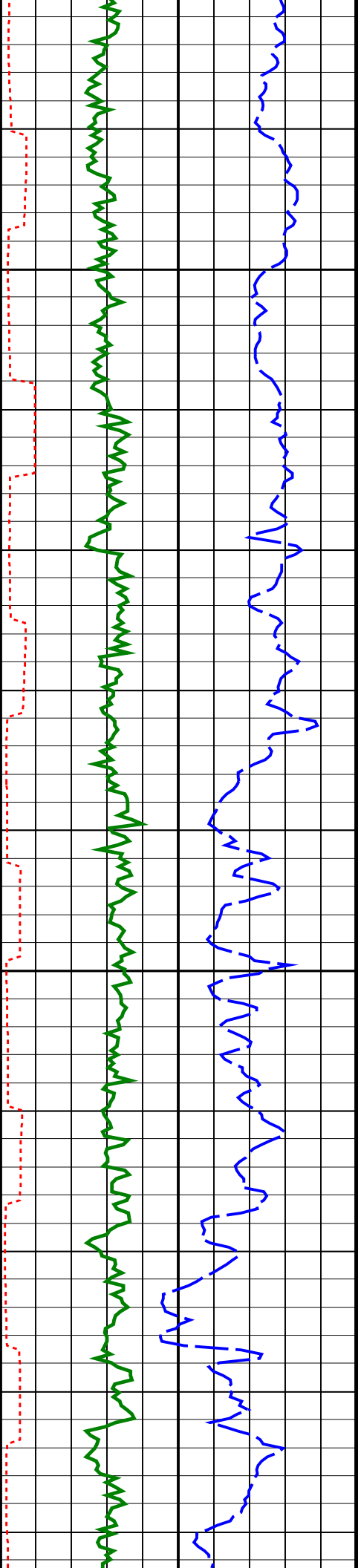
Format: VISION Resistivity 2MHz

Vertical Scale: 1:200

Graphics File Created: 11-Nov-2008 09:26

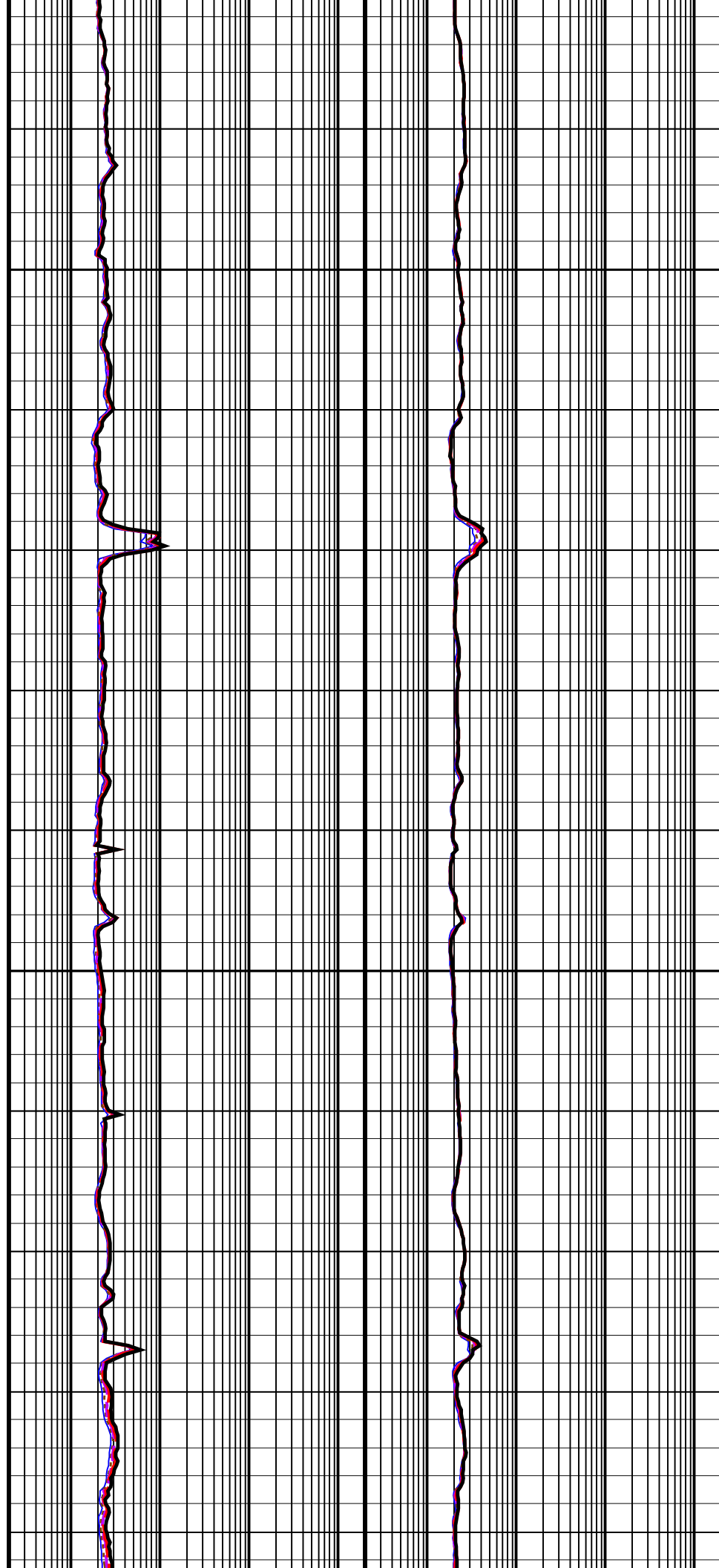
| | ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H) | ARC Attenuation Resistivity 40-in. at 2 MHz (A40H) |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| 0.2 (OHMM) 2000 | 0.2 (OHMM) 2000 | |
| ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H) | ARC Attenuation Resistivity 34-in. at 2 MHz (A34H) | |
| 0.2 (OHMM) 2000 | 0.2 (OHMM) 2000 | |
| ARC Phase-Shift Resistivity 28-in. at 2 MHz (P28H) | ARC Attenuation Resistivity 28-in. at 2 MHz (A28H) | |
| 0.2 (OHMM) 2000 | 0.2 (OHMM) 2000 | |
| ARC Phase-Shift Resistivity 22-in. at 2 MHz (P22H) | ARC Attenuation Resistivity 22-in. at 2 MHz (A22H) | |
| 0.2 (OHMM) 2000 | 0.2 (OHMM) 2000 | |
| ARC Phase-Shift Resistivity 16-in. at 2 MHz (P16H) | ARC Attenuation Resistivity 16-in. at 2 MHz (A16H) | |
| 0.2 (OHMM) 2000 | 0.2 (OHMM) 2000 | |

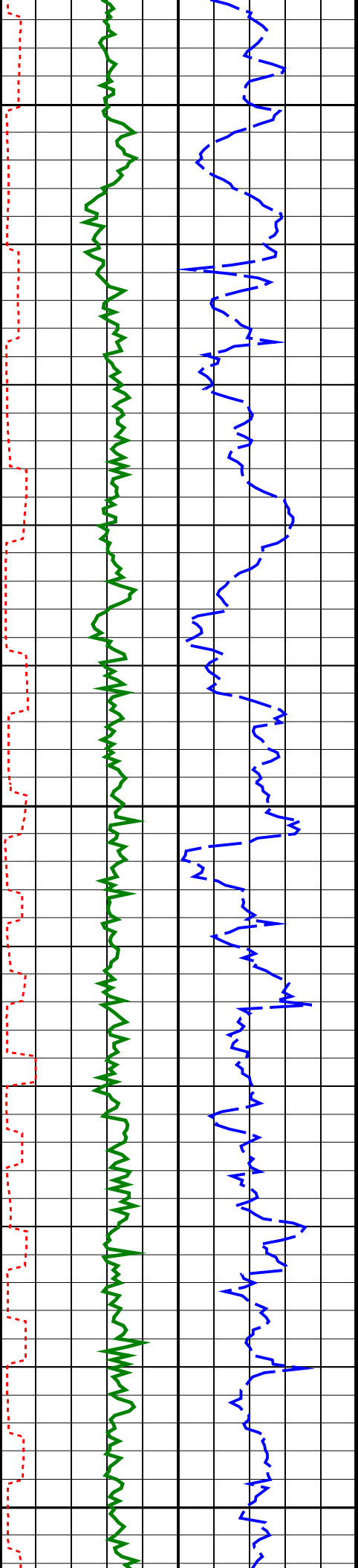




750
TVD

775
TVD

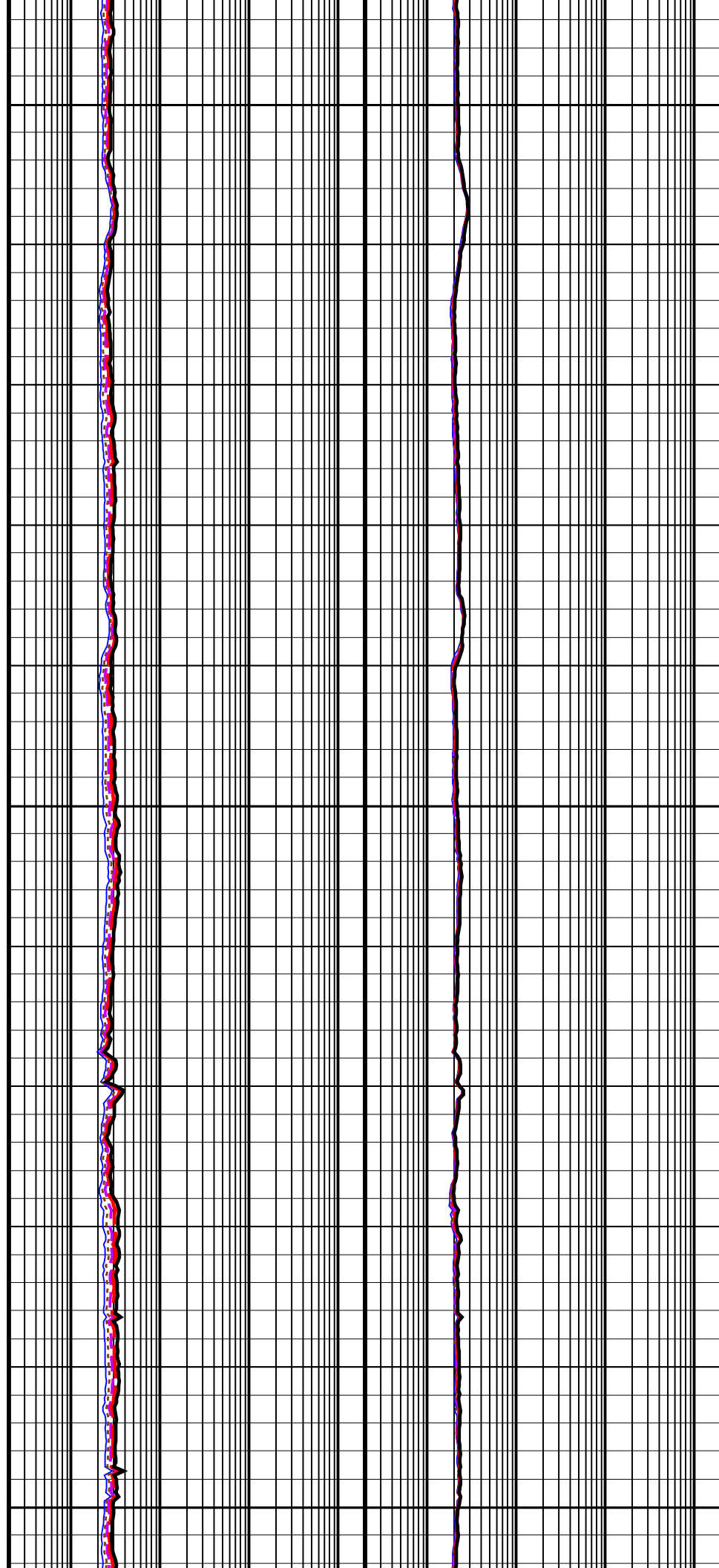


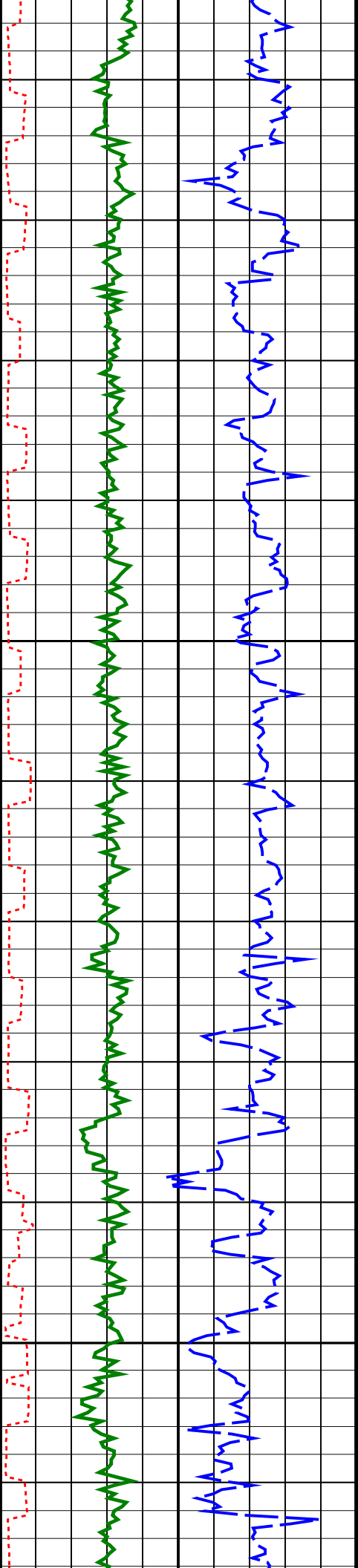


800
TVD

825
TVD

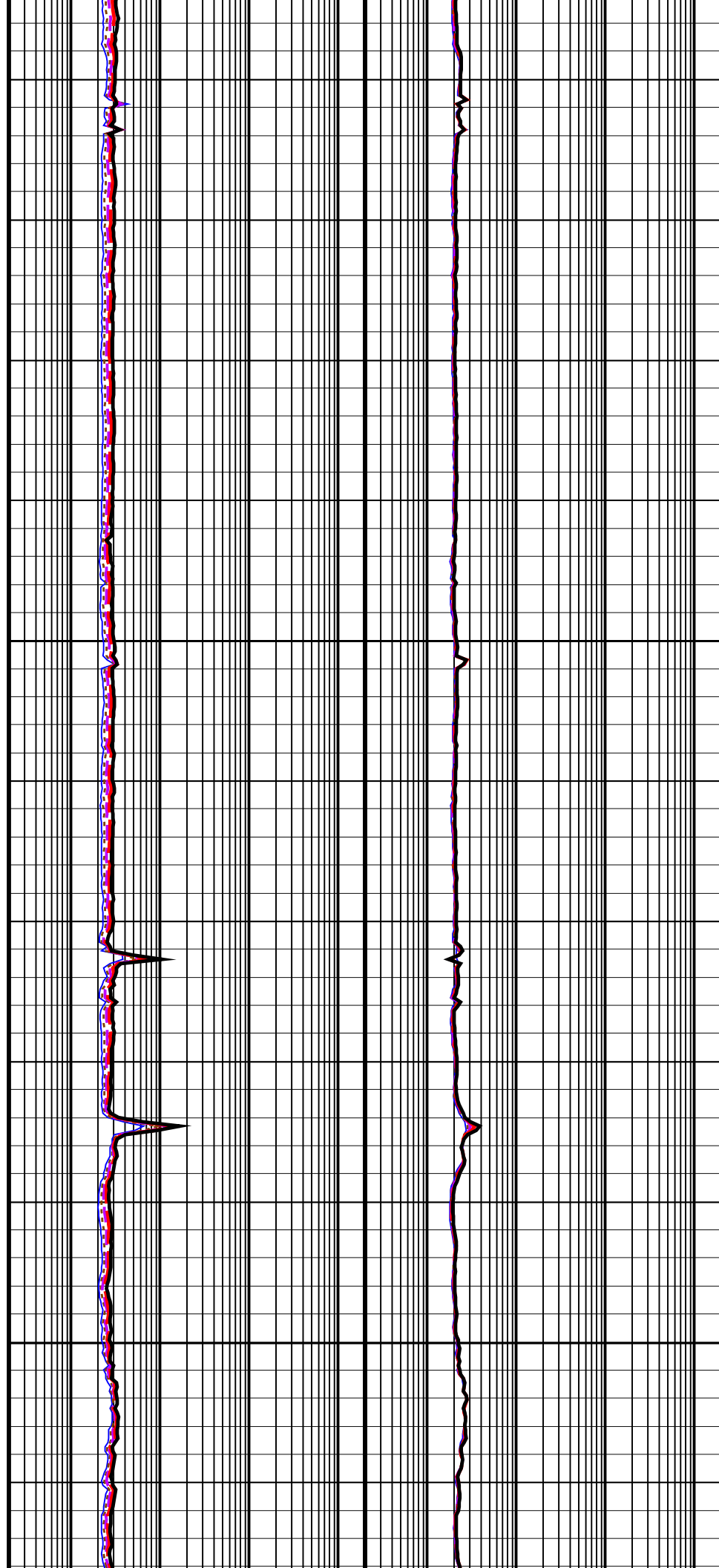
850
TVD

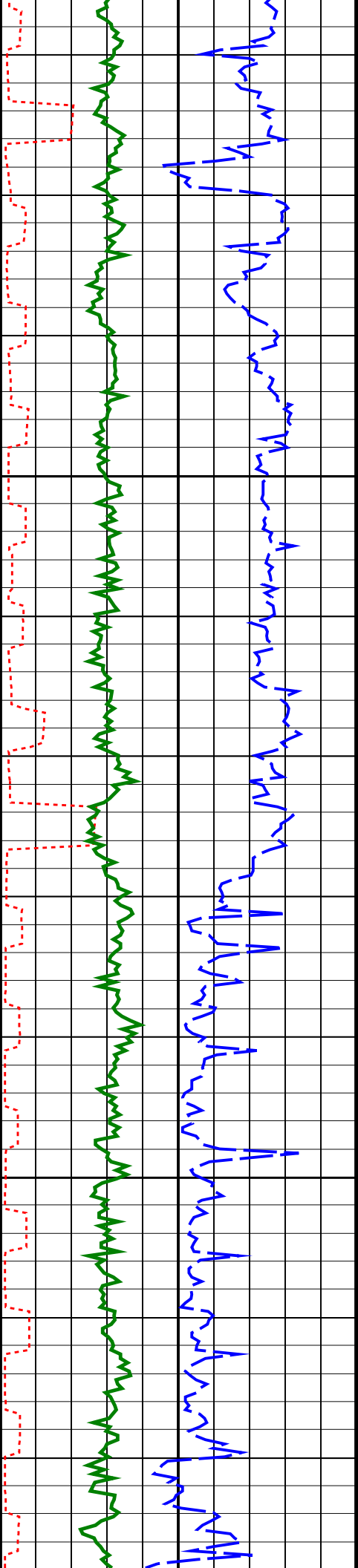




875
TVD

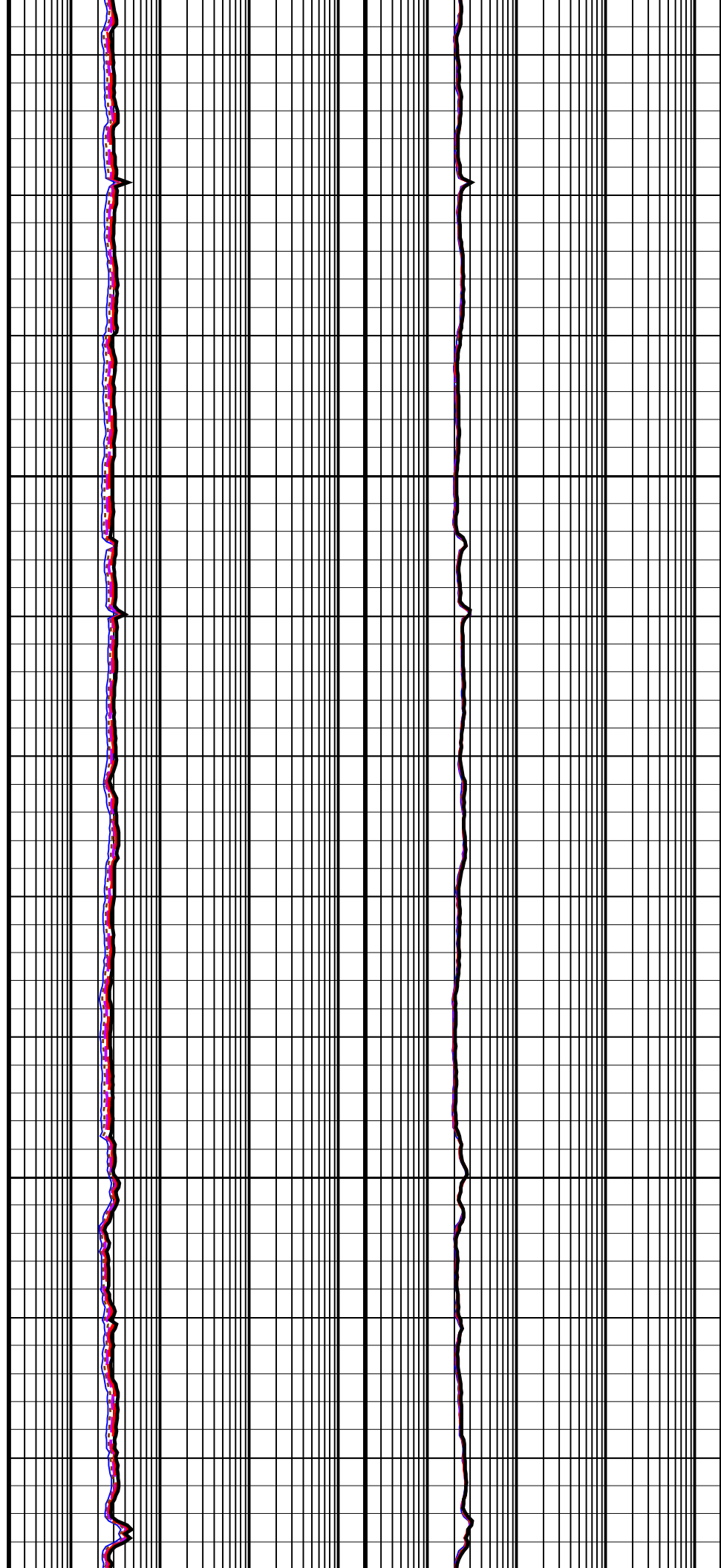
900
TVD

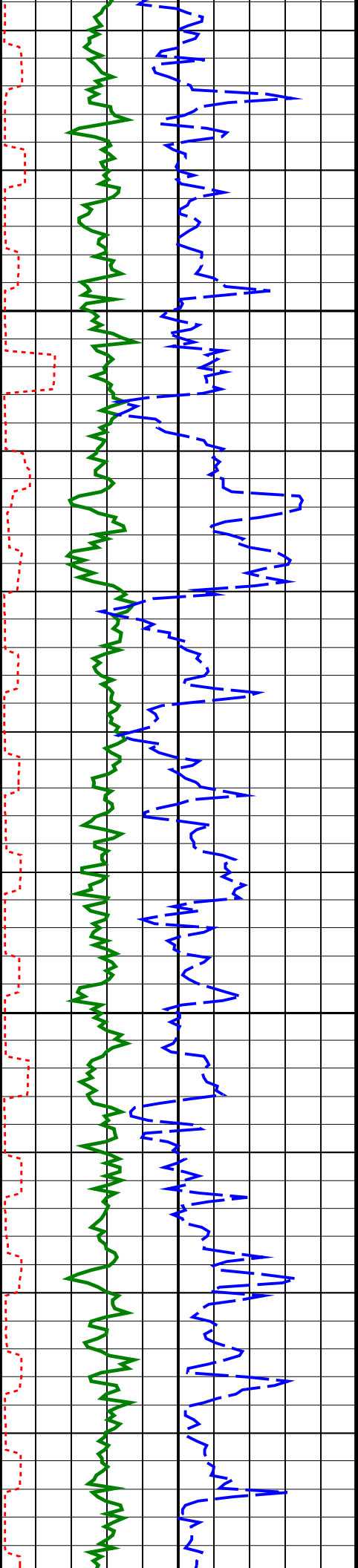




925
TVD

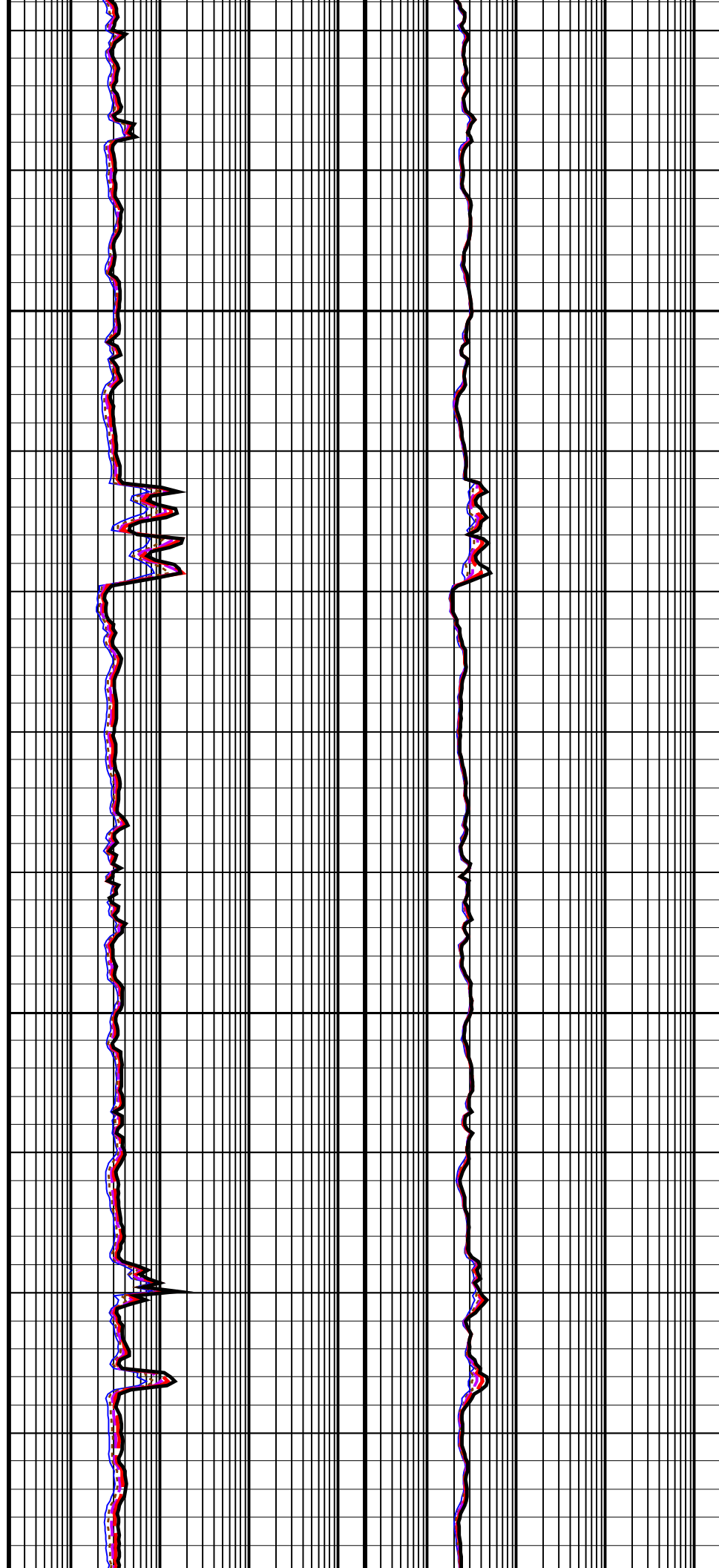
950
TVD

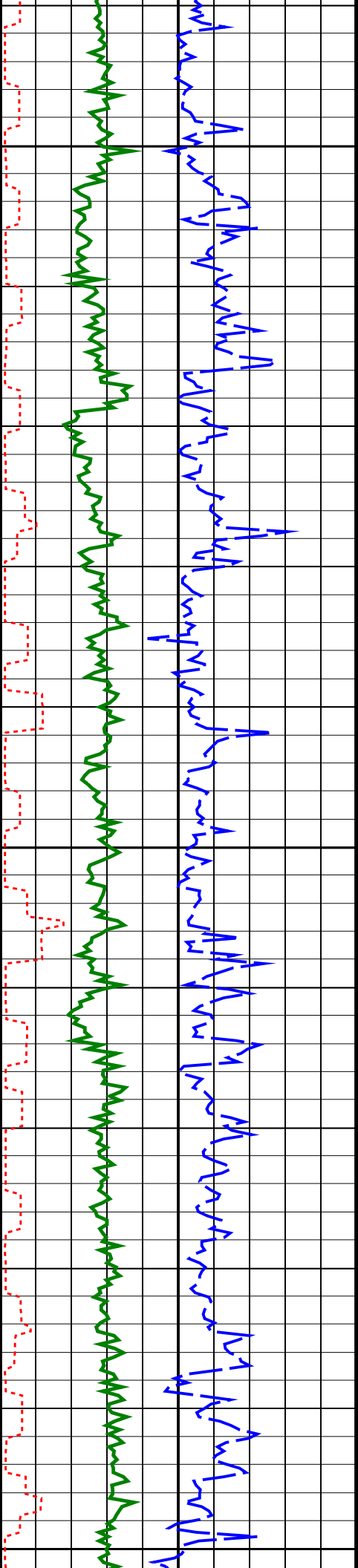




975
TVD

1000
TVD

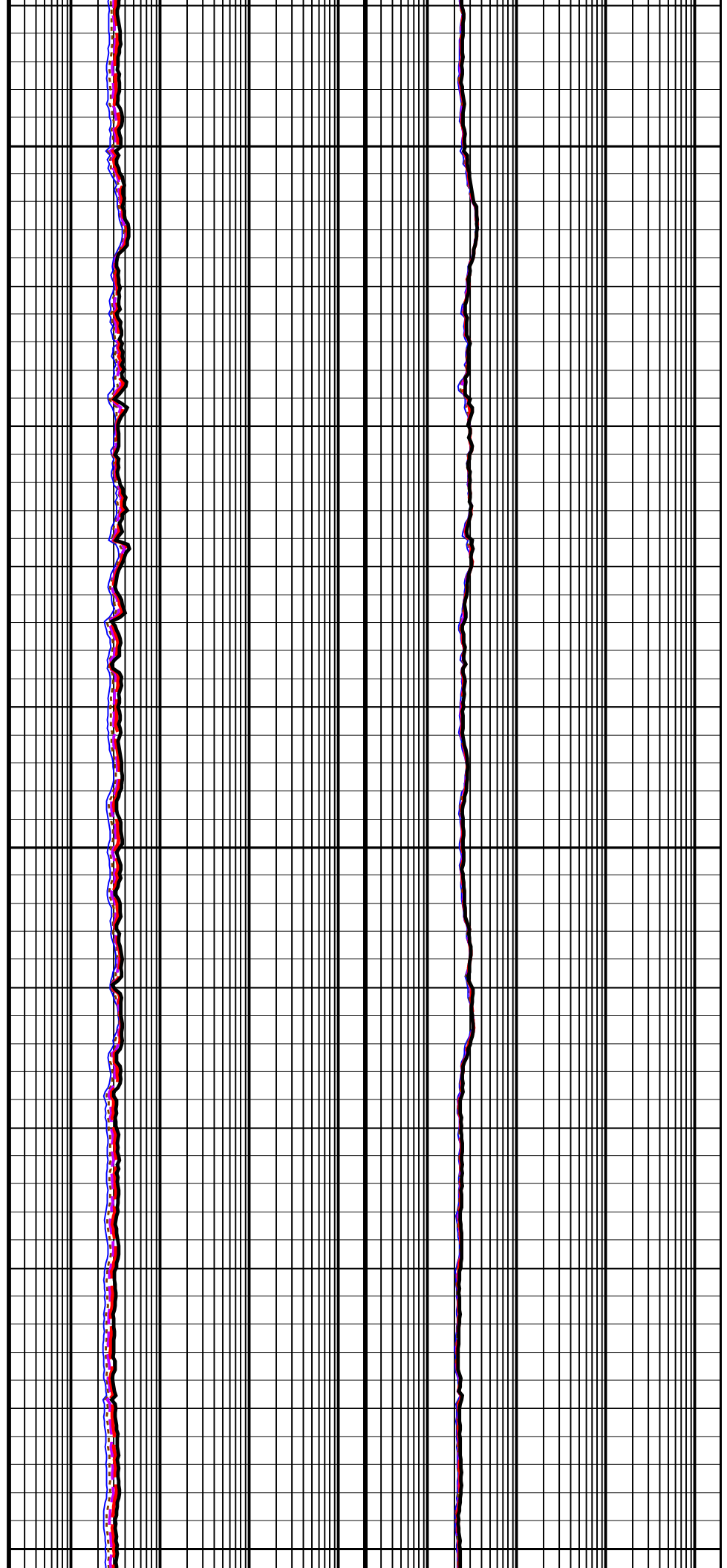


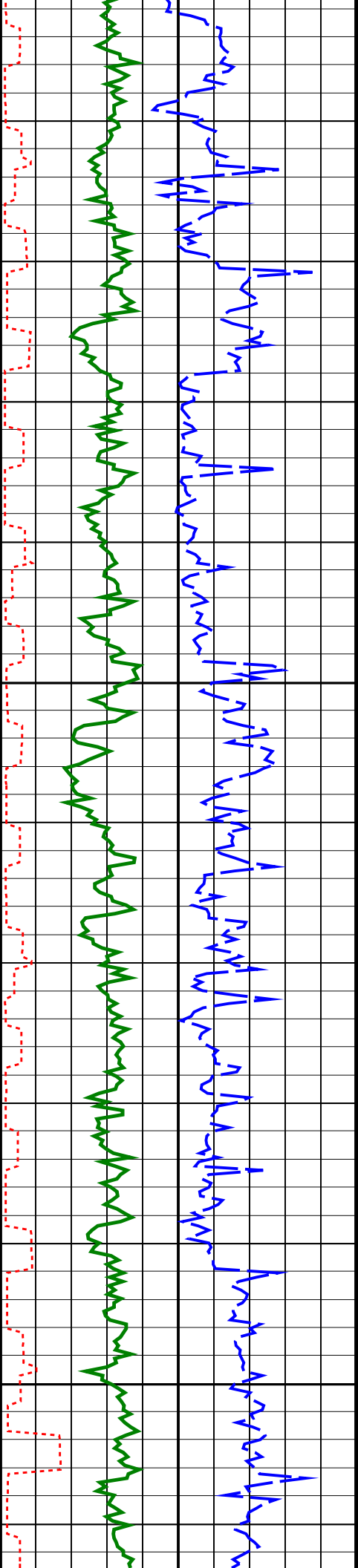


1025
TVD

1050
TVD

1075

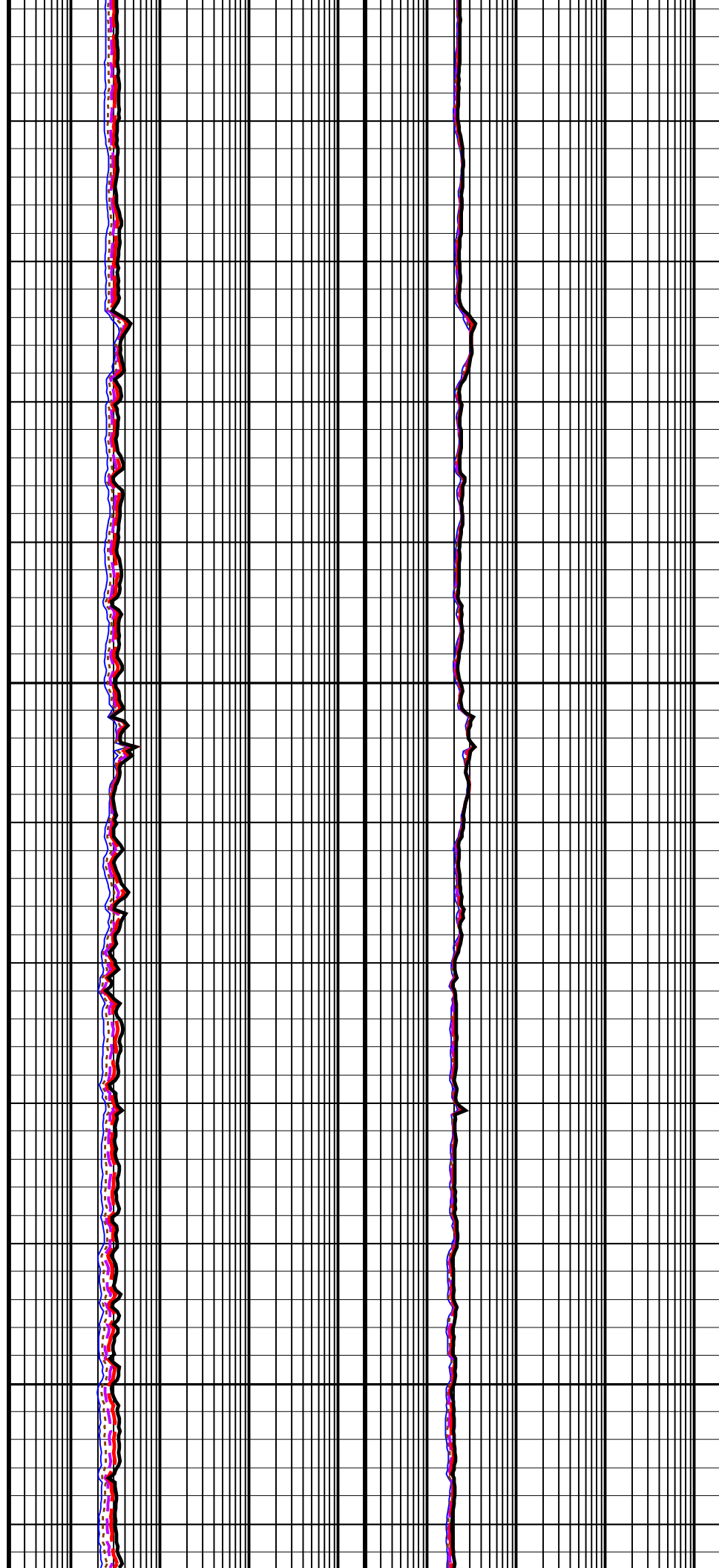


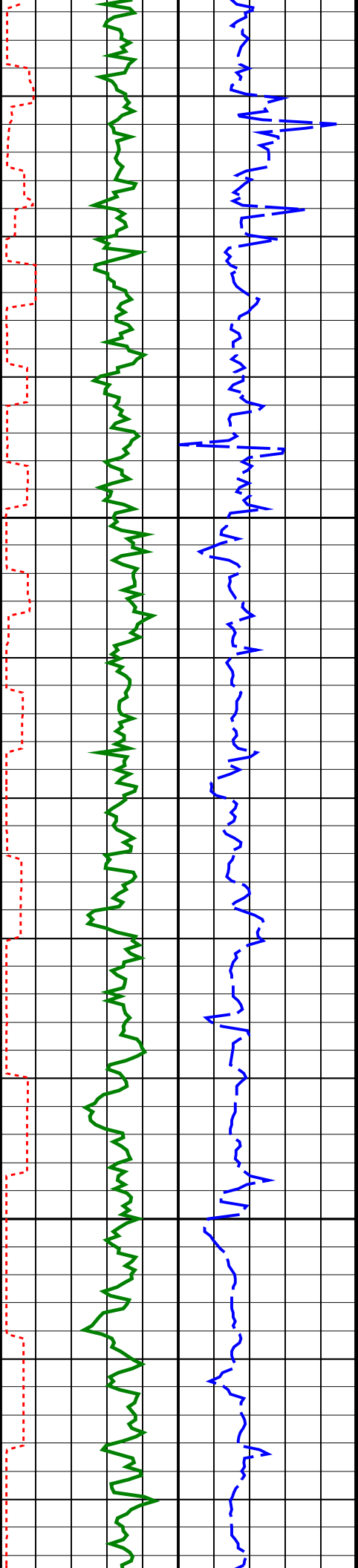


TVD

1100
TVD

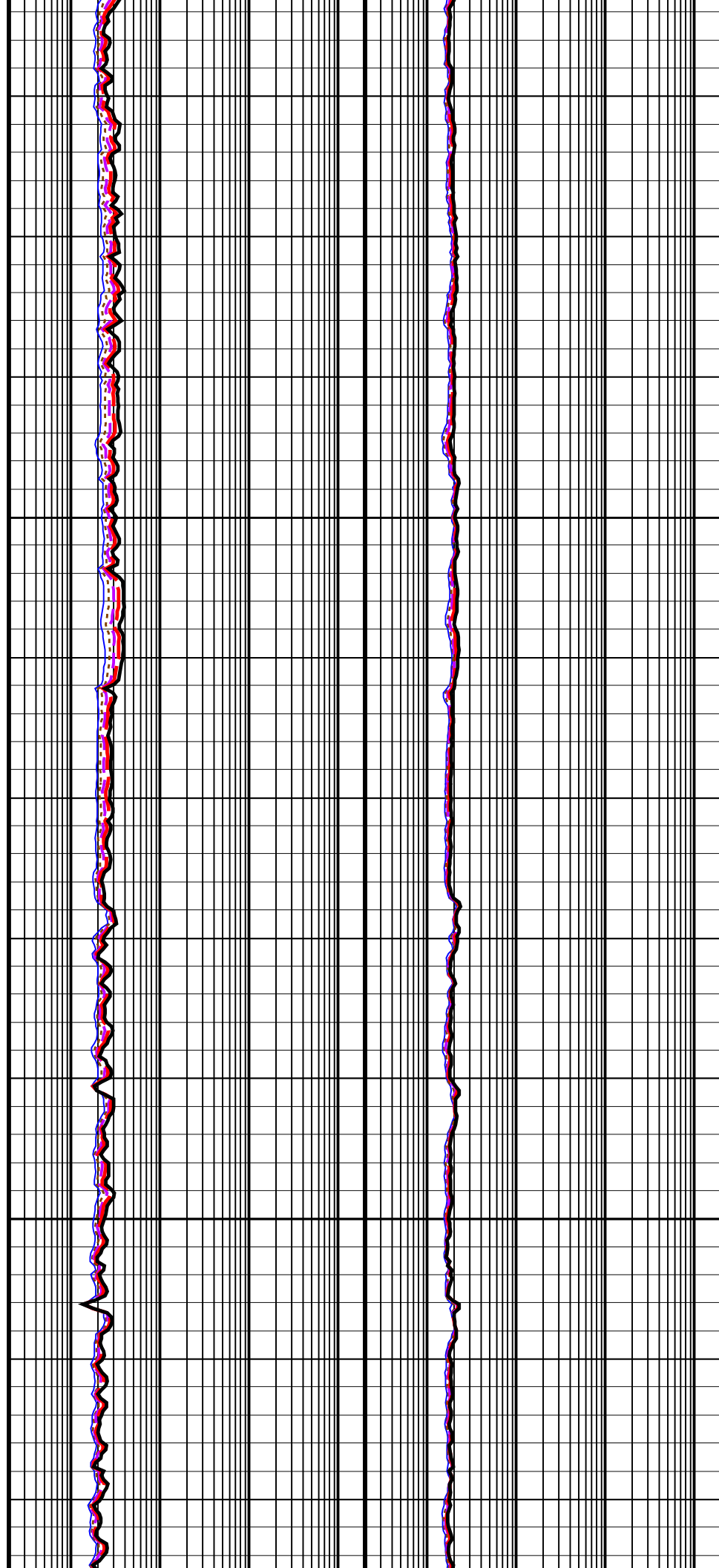
1125
TVD

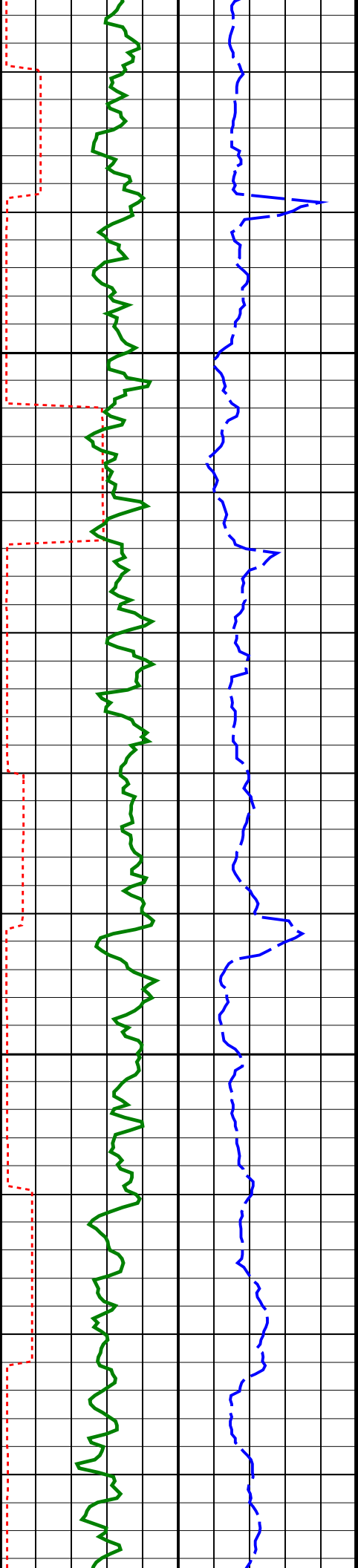




1150
TVD

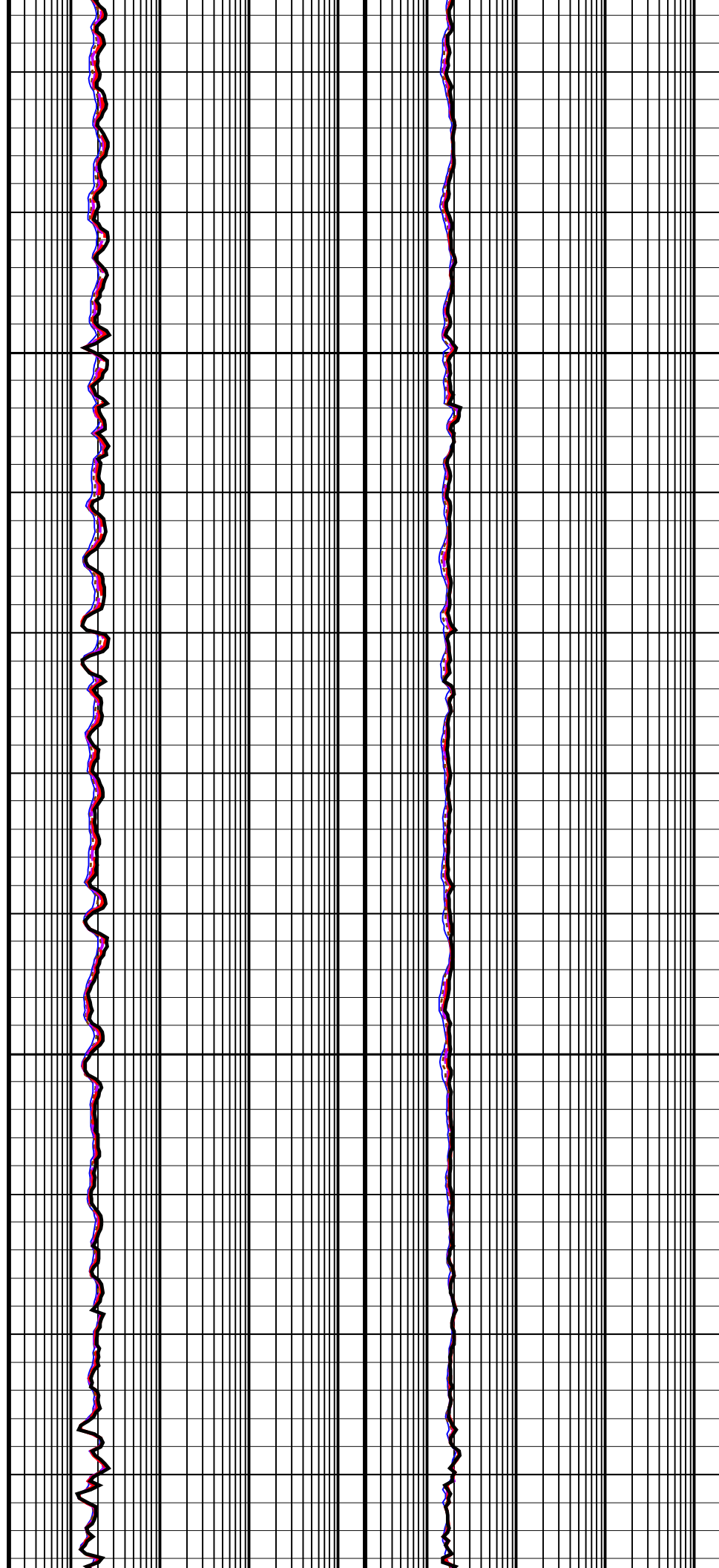
1175
TVD

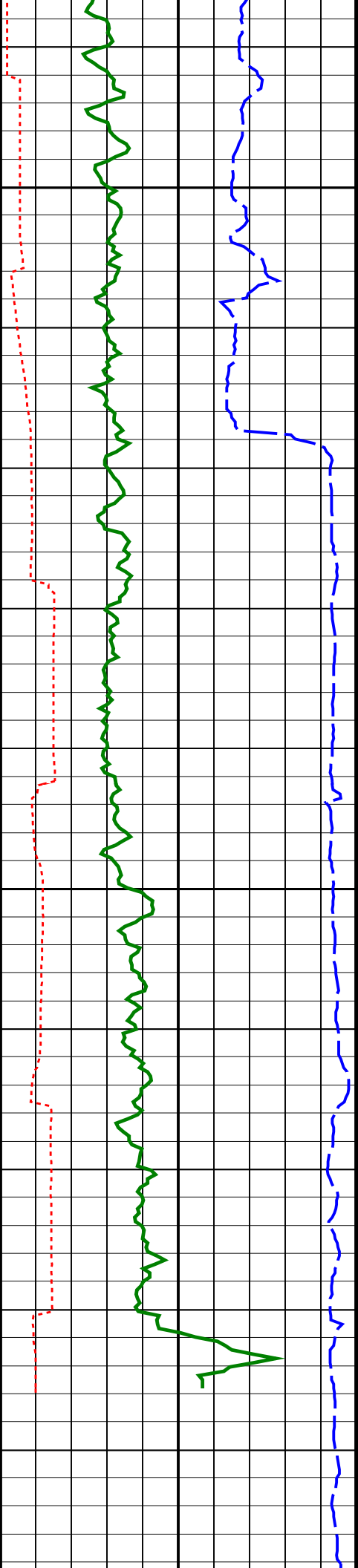




1200
TVD

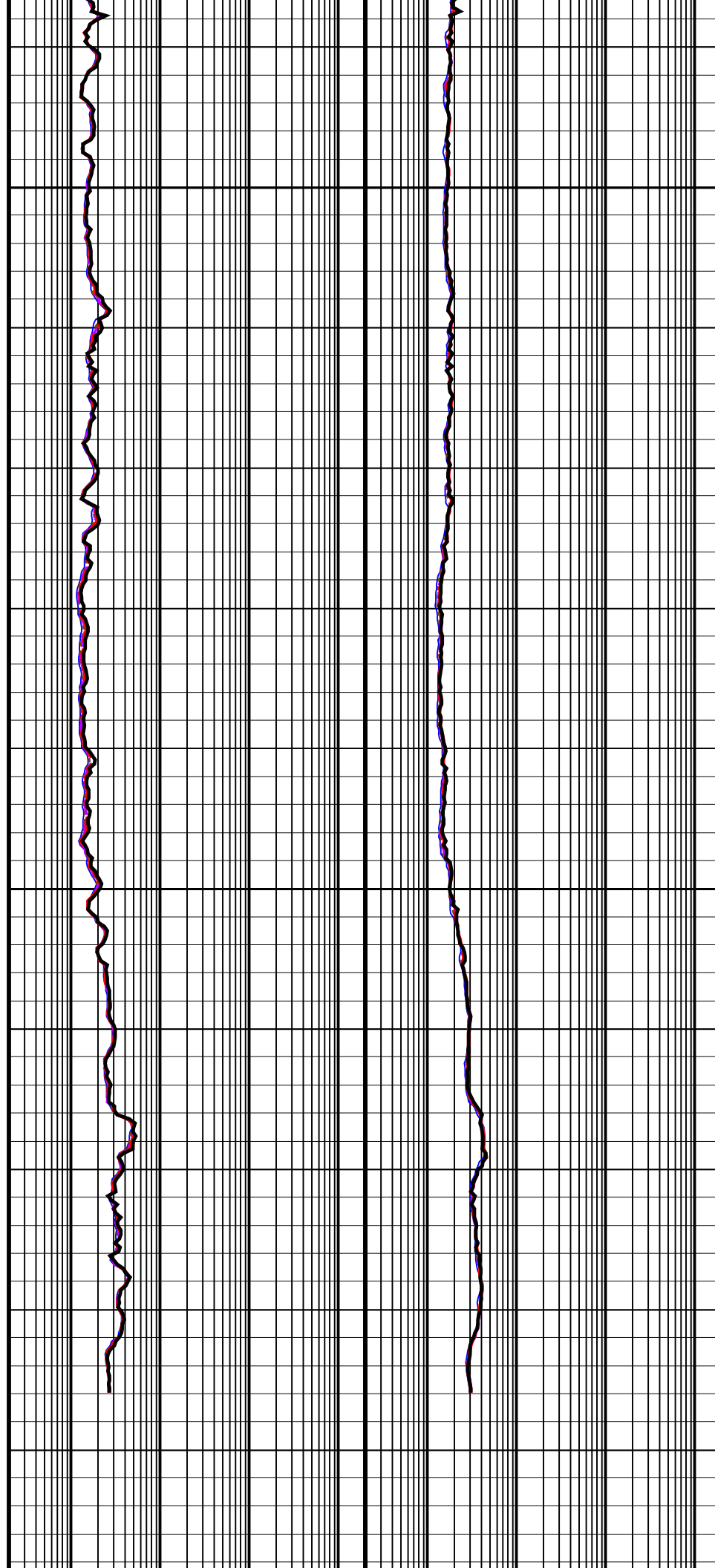
1225
TVD















1250
TVD







1275
TVD



| | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|-----|------|
| <div>1300 TVD</div> <div>ARC Gamma Ray (GR_ARC) (GAPI)</div> <div>ARC Resistivity Time After Bit (TAB_ARC_RES) (HR)</div> <div>Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)</div> | 0 | 200 | 0.2 | 2000 | 0.2 | 2000 |
| | 0 | 10 | 0.2 | 2000 | 0.2 | 2000 |
| | 200 | 0 | 0.2 | 2000 | 0.2 | 2000 |
| | | | 0.2 | 2000 | 0.2 | 2000 |
| | | | 0.2 | 2000 | 0.2 | 2000 |
| | | | 0.2 | 2000 | 0.2 | 2000 |
| | | | 0.2 | 2000 | 0.2 | 2000 |
| IDEAL Version: ID14_0C_02 IDF | | | | | | |

| | | |
|-------------------------------------------------------------------|-----------|------|
| 8.25-in. Array Resistivity Compensated / Equipment Identification | | |
| Primary Equipment: | | |
| Tool Name and Serial Number | ARC8 – AA | 1877 |
| ARC825 Calibration Status | AUTO – | |

| | | | | | | | | | | | |
|----------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|--------------------|--------|-------------------------------------------------------------------------------------|---------------------|--------------------|--------|---------------------------------------------------------------------------------------|---------------------|--------------------|
| Master: 7-Sep-2008 11:38 | | | | | | | | | | | |
| 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 |  | | 1.653 | Master |  | | -1.561 | Master |  | | 1.576 |
| | -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 T4 | | Value | Phase | Phase-Shift T5 | | Value | Phase | Phase-Shift T1 at 400KHz | | Value |
| Master |  | | -1.570 | Master |  | | 1.519 | Master |  | | 0.0006676 |
| | -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 |  | | -0.09648 | Master |  | | 0.03635 | Master |  | | -0.1021 |
| | -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 |  | | 0.01267 | | | | | | | | |
| | -3.900 (Minimum) | 0.1000 (Nominal) | 4.100 (Maximum) | | | | | | | | |

| | | | | | | | | | | | | | | |
|----------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------|--------------------|-------------------------------------------------------------------------------------|--------------------|--|--------------------|--------------------|---------------------------------------------------------------------------------------|--|--|-------|
| Master: 7-Sep-2008 11:38 | | | | | | | | | | | | | | |
| 8.25-in. Array Resistivity Compensated Calibration | | | | | | | | | | | | | | |
| Resistivity: Air | | | | | | | | | | | | | | |
| Phase | Attenuation T1 | | | Value | Phase | Attenuation T2 | | | Value | Phase | Attenuation T3 | | | Value |
| Master |  | | | 8.245 | Master |  | | | 6.420 | Master |  | | | 4.966 |
| | 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 |  | | | 4.370 | Master |  | | | 3.558 | Master |  | | | 8.243 |
| | 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 | | | 6.433 | Master | | | 4.958 | Master | | | 4.379 |
| 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 | | | 3.559 | | | | | | | | |
| 1.600 (Minimum) | 3.600 (Nominal) | 5.600 (Maximum) | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------------------------------|------------------------------------------------------------------------------|--------------------|--------------------|--|--|--|--|--|-------|--|-------|
| Master: 30-Aug-2008 9:26 | | | | | | | | | | | |
| 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 | | | | | | | | | | | 7.575 |
| | 4.960 (Minimum) | 7.200 (Nominal) | 9.650 (Maximum) | | | | | | | | |

SCHLUMBERGER

Survey report

5-Nov-2008 04:06:21

Client.....: ESSO AUSTRALIA PTY LTD.
Field.....: SNAPPER

Well.....: SNA A11A-ST
API number.....: 08ASQ0028
Engineer.....: MA/BL/DOB/DP

RIG:.....: ISDL 175
STATE:.....: VICTORIA

Spud date.....: 09-Sep-08
Last survey date.....: 28-Oct-08
Total accepted surveys....: 320
MD of first survey.....: 0.00 m
MD of last survey.....: 5204.00 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.....: -55.00 m
KB above permanent.....: Top Drive
DF above permanent.....: 41.70 m

----- Vertical section origin-----
Latitude (+N/S-).....: -1.85 m
Departure (+E/W-).....: 2.38 m

----- Platform reference point-----
Latitude (+N/S-).....:
Departure (+E/W-).....:

Azimuth from Vsect Origin to target: 225.66 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2008
Magnetic date.....: 21-Oct-2008
Magnetic field strength...: 1198.04 HCNT
Magnetic dec (+E/W-).....: 13.00 degrees
Magnetic dip.....: -68.69 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1198.04 HCNT
Reference Dip.....: -68.69 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.00 degrees
Grid convergence (+E/W-)..: -0.63 degrees
Total az corr (+E/W-).....: 13.63 degrees
(Total az corr = magnetic dec - grid conv)
Survey Correction Type:
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

[(c)2008 IDEAL ID14_OC_02]
SCHLUMBERGER Survey Report

| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.85 | 2.38 | 3.01 | 127.86 | 0.00 | TIP | None |
| 2 | 9.08 | 0.00 | 0.00 | 9.08 | 9.08 | 0.00 | -1.85 | 2.38 | 3.01 | 127.86 | 0.00 | MWD | None |
| 3 | 64.08 | 0.64 | 256.16 | 55.00 | 64.08 | 0.26 | -1.92 | 2.08 | 2.83 | 132.74 | 0.35 | MWD | None |
| 4 | 69.08 | 0.63 | 260.84 | 5.00 | 69.08 | 0.31 | -1.93 | 2.03 | 2.80 | 133.66 | 0.32 | MWD | None |
| 5 | 74.08 | 0.65 | 250.94 | 5.00 | 74.08 | 0.36 | -1.95 | 1.97 | 2.77 | 134.63 | 0.68 | MWD | None |
| 6 | 79.08 | 0.64 | 252.60 | 5.00 | 79.08 | 0.41 | -1.97 | 1.92 | 2.75 | 135.67 | 0.13 | MWD | None |
| 7 | 84.08 | 0.66 | 258.82 | 5.00 | 84.08 | 0.46 | -1.98 | 1.87 | 2.72 | 136.71 | 0.45 | MWD | None |
| 8 | 89.08 | 0.67 | 251.56 | 5.00 | 89.08 | 0.51 | -1.99 | 1.81 | 2.69 | 137.79 | 0.52 | MWD | None |
| 9 | 94.08 | 0.60 | 249.24 | 5.00 | 94.08 | 0.56 | -2.01 | 1.76 | 2.67 | 138.89 | 0.45 | MWD | None |
| 10 | 99.08 | 0.58 | 241.17 | 5.00 | 99.08 | 0.61 | -2.03 | 1.71 | 2.66 | 139.95 | 0.52 | MWD | None |
| 11 | 104.08 | 0.62 | 228.30 | 5.00 | 104.08 | 0.66 | -2.06 | 1.67 | 2.65 | 141.07 | 0.85 | MWD | None |
| 12 | 109.08 | 0.70 | 211.44 | 5.00 | 109.08 | 0.72 | -2.11 | 1.63 | 2.67 | 142.27 | 1.27 | MWD | None |
| 13 | 114.08 | 0.88 | 192.04 | 5.00 | 114.08 | 0.78 | -2.17 | 1.61 | 2.70 | 143.50 | 1.88 | MWD | None |

| | | | | | | | | | | | | | |
|----|--------|-------|--------|------|--------|--------|---------|--------|--------|--------|------|-----|------|
| 13 | 114.08 | 0.89 | 192.04 | 5.00 | 114.08 | 0.78 | -2.17 | 1.81 | 2.70 | 143.50 | 1.99 | MWD | None |
| | 119.08 | 1.08 | 185.88 | 5.00 | 119.07 | 0.85 | -2.26 | 1.59 | 2.76 | 144.76 | 1.32 | MWD | None |
| | 124.08 | 1.46 | 178.13 | 5.00 | 124.07 | 0.93 | -2.37 | 1.59 | 2.85 | 146.09 | 2.54 | MWD | None |
| 16 | 129.08 | 1.89 | 174.10 | 5.00 | 129.07 | 1.02 | -2.51 | 1.60 | 2.98 | 147.48 | 2.72 | MWD | None |
| | 134.08 | 2.10 | 170.15 | 5.00 | 134.07 | 1.12 | -2.69 | 1.63 | 3.14 | 148.80 | 1.53 | MWD | None |
| | 139.08 | 2.49 | 169.82 | 5.00 | 139.06 | 1.24 | -2.88 | 1.66 | 3.33 | 150.04 | 2.38 | MWD | None |
| | 144.08 | 2.77 | 169.43 | 5.00 | 144.06 | 1.36 | -3.11 | 1.70 | 3.54 | 151.29 | 1.71 | MWD | None |
| | 149.08 | 3.04 | 169.81 | 5.00 | 149.05 | 1.51 | -3.36 | 1.75 | 3.79 | 152.49 | 1.65 | MWD | None |
| | | | | | | | | | | | | | |
| 21 | 154.08 | 3.26 | 170.56 | 5.00 | 154.05 | 1.66 | -3.63 | 1.80 | 4.05 | 153.68 | 1.36 | MWD | None |
| | 159.08 | 3.50 | 173.03 | 5.00 | 159.04 | 1.84 | -3.92 | 1.84 | 4.33 | 154.89 | 1.71 | MWD | None |
| | 164.08 | 3.80 | 175.77 | 5.00 | 164.03 | 2.03 | -4.24 | 1.87 | 4.63 | 156.21 | 2.11 | MWD | None |
| | 169.08 | 3.96 | 177.49 | 5.00 | 169.01 | 2.26 | -4.58 | 1.89 | 4.95 | 157.58 | 1.21 | MWD | None |
| | 174.08 | 4.35 | 183.02 | 5.00 | 174.00 | 2.51 | -4.94 | 1.89 | 5.28 | 159.10 | 3.41 | MWD | None |
| | | | | | | | | | | | | | |
| 26 | 179.08 | 4.62 | 185.30 | 5.00 | 178.99 | 2.80 | -5.33 | 1.86 | 5.64 | 160.78 | 1.97 | MWD | None |
| | 184.08 | 4.97 | 188.80 | 5.00 | 183.97 | 3.13 | -5.74 | 1.81 | 6.02 | 162.55 | 2.78 | MWD | None |
| | 189.08 | 5.34 | 192.30 | 5.00 | 188.95 | 3.50 | -6.18 | 1.72 | 6.42 | 164.43 | 2.96 | MWD | None |
| | 194.08 | 5.61 | 194.26 | 5.00 | 193.93 | 3.90 | -6.65 | 1.61 | 6.84 | 166.36 | 2.00 | MWD | None |
| | 199.08 | 5.84 | 193.73 | 5.00 | 198.90 | 4.33 | -7.13 | 1.49 | 7.29 | 168.18 | 1.44 | MWD | None |
| | | | | | | | | | | | | | |
| 31 | 204.08 | 6.01 | 195.66 | 5.00 | 203.87 | 4.77 | -7.63 | 1.36 | 7.75 | 169.89 | 1.60 | MWD | None |
| | 209.08 | 6.40 | 199.47 | 5.00 | 208.84 | 5.25 | -8.14 | 1.20 | 8.23 | 171.64 | 3.46 | MWD | None |
| | 214.08 | 6.67 | 202.29 | 5.00 | 213.81 | 5.76 | -8.68 | 0.99 | 8.73 | 173.46 | 2.56 | MWD | None |
| | 219.08 | 6.96 | 204.15 | 5.00 | 218.78 | 6.31 | -9.22 | 0.76 | 9.25 | 175.29 | 2.22 | MWD | None |
| | 224.08 | 7.40 | 207.94 | 5.00 | 223.74 | 6.90 | -9.78 | 0.49 | 9.79 | 177.16 | 3.94 | MWD | None |
| | | | | | | | | | | | | | |
| 36 | 229.08 | 7.84 | 209.45 | 5.00 | 228.69 | 7.53 | -10.36 | 0.17 | 10.37 | 179.08 | 2.95 | MWD | None |
| | 234.08 | 8.37 | 211.17 | 5.00 | 233.64 | 8.21 | -10.97 | -0.19 | 10.97 | 180.99 | 3.55 | MWD | None |
| | 239.08 | 8.88 | 212.23 | 5.00 | 238.59 | 8.94 | -11.61 | -0.58 | 11.62 | 182.88 | 3.26 | MWD | None |
| | 244.08 | 9.43 | 212.07 | 5.00 | 243.52 | 9.71 | -12.28 | -1.01 | 12.32 | 184.68 | 3.36 | MWD | None |
| | 249.08 | 10.25 | 212.50 | 5.00 | 248.45 | 10.55 | -13.01 | -1.46 | 13.09 | 186.42 | 5.02 | MWD | None |
| | | | | | | | | | | | | | |
| 41 | 254.08 | 10.81 | 212.64 | 5.00 | 253.37 | 11.44 | -13.78 | -1.95 | 13.91 | 188.08 | 3.42 | MWD | None |
| | 259.08 | 11.55 | 212.86 | 5.00 | 258.27 | 12.38 | -14.59 | -2.48 | 14.80 | 189.64 | 4.52 | MWD | None |
| | 264.08 | 12.12 | 212.88 | 5.00 | 263.16 | 13.38 | -15.45 | -3.04 | 15.75 | 191.12 | 3.47 | MWD | None |
| | 269.08 | 12.69 | 212.49 | 5.00 | 268.05 | 14.43 | -16.36 | -3.62 | 16.75 | 192.47 | 3.51 | MWD | None |
| | 274.08 | 13.36 | 212.57 | 5.00 | 272.92 | 15.52 | -17.31 | -4.22 | 17.81 | 193.71 | 4.09 | MWD | None |
| | | | | | | | | | | | | | |
| 46 | 279.08 | 14.13 | 212.66 | 5.00 | 277.78 | 16.68 | -18.31 | -4.86 | 18.94 | 194.87 | 4.70 | MWD | None |
| | 284.08 | 14.63 | 212.45 | 5.00 | 282.62 | 17.89 | -19.35 | -5.53 | 20.13 | 195.95 | 3.06 | MWD | None |
| | 289.08 | 15.27 | 212.31 | 5.00 | 287.45 | 19.15 | -20.44 | -6.22 | 21.37 | 196.93 | 3.91 | MWD | None |
| | 294.08 | 16.00 | 211.97 | 5.00 | 292.26 | 20.46 | -21.58 | -6.94 | 22.67 | 197.82 | 4.48 | MWD | None |
| | 299.08 | 16.98 | 211.90 | 5.00 | 297.06 | 21.84 | -22.79 | -7.69 | 24.05 | 198.64 | 5.98 | MWD | None |
| | | | | | | | | | | | | | |
| 51 | 304.08 | 17.56 | 211.94 | 5.00 | 301.83 | 23.28 | -24.05 | -8.47 | 25.50 | 199.41 | 3.54 | MWD | None |
| | 309.08 | 18.41 | 211.96 | 5.00 | 306.59 | 24.78 | -25.36 | -9.29 | 27.01 | 200.12 | 5.18 | MWD | None |
| | 314.08 | 19.09 | 211.99 | 5.00 | 311.32 | 26.34 | -26.72 | -10.14 | 28.58 | 200.78 | 4.15 | MWD | None |
| | 319.08 | 19.84 | 211.85 | 5.00 | 316.04 | 27.96 | -28.14 | -11.02 | 30.22 | 201.39 | 4.58 | MWD | None |
| | 324.08 | 20.38 | 211.77 | 5.00 | 320.73 | 29.63 | -29.60 | -11.93 | 31.91 | 201.95 | 3.30 | MWD | None |
| | | | | | | | | | | | | | |
| 56 | 329.08 | 21.36 | 211.76 | 5.00 | 325.41 | 31.36 | -31.11 | -12.87 | 33.67 | 202.47 | 5.97 | MWD | None |
| | 334.08 | 22.08 | 211.69 | 5.00 | 330.05 | 33.15 | -32.69 | -13.84 | 35.49 | 202.95 | 4.39 | MWD | None |
| | 339.08 | 22.85 | 211.55 | 5.00 | 334.67 | 35.00 | -34.31 | -14.84 | 37.38 | 203.39 | 4.71 | MWD | None |
| | 344.08 | 23.62 | 211.57 | 5.00 | 339.27 | 36.92 | -35.99 | -15.87 | 39.34 | 203.80 | 4.69 | MWD | None |
| | 349.08 | 24.89 | 211.82 | 5.00 | 343.82 | 38.91 | -37.74 | -16.95 | 41.37 | 204.19 | 7.77 | MWD | None |
| | | | | | | | | | | | | | |
| 61 | 354.08 | 25.22 | 211.39 | 5.00 | 348.35 | 40.97 | -39.54 | -18.06 | 43.47 | 204.55 | 2.30 | MWD | None |
| | 359.08 | 26.19 | 211.56 | 5.00 | 352.86 | 43.07 | -41.39 | -19.19 | 45.63 | 204.88 | 5.93 | MWD | None |
| | 364.08 | 26.52 | 211.53 | 5.00 | 357.34 | 45.22 | -43.29 | -20.36 | 47.83 | 205.19 | 2.01 | MWD | None |
| | 369.08 | 26.97 | 211.34 | 5.00 | 361.80 | 47.40 | -45.21 | -21.53 | 50.07 | 205.47 | 2.79 | MWD | None |
| | 374.08 | 27.48 | 211.43 | 5.00 | 366.25 | 49.62 | -47.16 | -22.72 | 52.35 | 205.72 | 3.12 | MWD | None |
| | | | | | | | | | | | | | |
| 66 | 379.08 | 28.09 | 211.41 | 5.00 | 370.67 | 51.88 | -49.15 | -23.94 | 54.67 | 205.97 | 3.72 | MWD | None |
| | 384.08 | 28.40 | 211.27 | 5.00 | 375.08 | 54.17 | -51.17 | -25.17 | 57.02 | 206.19 | 1.93 | MWD | None |
| | 389.08 | 28.95 | 211.53 | 5.00 | 379.46 | 56.50 | -53.22 | -26.42 | 59.41 | 206.40 | 3.44 | MWD | None |
| | 394.08 | 29.37 | 211.43 | 5.00 | 383.83 | 58.86 | -55.29 | -27.69 | 61.84 | 206.60 | 2.58 | MWD | None |
| | 399.08 | 29.94 | 211.44 | 5.00 | 388.18 | 61.26 | -57.40 | -28.98 | 64.30 | 206.79 | 3.47 | MWD | None |
| | | | | | | | | | | | | | |
| 71 | 404.08 | 30.23 | 211.47 | 5.00 | 392.50 | 63.69 | -59.54 | -30.29 | 66.80 | 206.96 | 1.77 | MWD | None |
| | 409.08 | 30.54 | 211.55 | 5.00 | 396.82 | 66.14 | -61.70 | -31.61 | 69.32 | 207.13 | 1.91 | MWD | None |
| | 414.08 | 30.93 | 211.56 | 5.00 | 401.11 | 68.62 | -63.88 | -32.95 | 71.87 | 207.28 | 2.38 | MWD | None |
| | 419.08 | 31.27 | 211.61 | 5.00 | 405.39 | 71.12 | -66.08 | -34.30 | 74.45 | 207.43 | 2.08 | MWD | None |
| | 424.08 | 31.61 | 211.56 | 5.00 | 409.66 | 73.65 | -68.30 | -35.66 | 77.05 | 207.57 | 2.08 | MWD | None |
| | | | | | | | | | | | | | |
| 76 | 429.08 | 31.97 | 211.57 | 5.00 | 413.91 | 76.21 | -70.54 | -37.04 | 79.68 | 207.71 | 2.19 | MWD | None |
| | 434.08 | 32.35 | 211.61 | 5.00 | 418.14 | 78.79 | -72.81 | -38.44 | 82.33 | 207.83 | 2.32 | MWD | None |
| | 439.08 | 32.76 | 211.64 | 5.00 | 422.36 | 81.40 | -75.10 | -39.85 | 85.02 | 207.95 | 2.50 | MWD | None |
| | 444.08 | 33.16 | 211.66 | 5.00 | 426.55 | 84.04 | -77.42 | -41.28 | 87.73 | 208.07 | 2.44 | MWD | None |
| | 449.08 | 33.49 | 211.84 | 5.00 | 430.73 | 86.70 | -79.75 | -42.72 | 90.47 | 208.18 | 2.10 | MWD | None |
| | | | | | | | | | | | | | |
| 81 | 454.08 | 33.93 | 211.75 | 5.00 | 434.89 | 89.40 | -82.11 | -44.18 | 93.24 | 208.28 | 2.70 | MWD | None |
| | 459.08 | 34.32 | 211.71 | 5.00 | 439.03 | 92.12 | -84.50 | -45.66 | 96.04 | 208.39 | 2.38 | MWD | None |
| | 464.08 | 34.71 | 211.67 | 5.00 | 443.15 | 94.87 | -86.91 | -47.15 | 98.87 | 208.48 | 2.38 | MWD | None |
| | 469.08 | 35.15 | 211.63 | 5.00 | 447.25 | 97.65 | -89.34 | -48.65 | 101.73 | 208.57 | 2.69 | MWD | None |
| | 474.08 | 35.60 | 211.64 | 5.00 | 451.33 | 100.45 | -91.81 | -50.17 | 104.62 | 208.65 | 2.74 | MWD | None |
| | | | | | | | | | | | | | |
| 86 | 479.08 | 36.06 | 211.71 | 5.00 | 455.38 | 103.29 | -94.30 | -51.70 | 107.54 | 208.74 | 2.82 | MWD | None |
| | 484.08 | 36.50 | 211.72 | 5.00 | 459.41 | 106.17 | -96.82 | -53.26 | 110.50 | 208.82 | 2.68 | MWD | None |
| | 489.08 | 36.99 | 211.72 | 5.00 | 463.42 | 109.07 | -99.36 | -54.83 | 113.49 | 208.89 | 2.99 | MWD | None |
| | 494.08 | 37.46 | 211.80 | 5.00 | 467.40 | 112.01 | -101.93 | -56.42 | 116.51 | 208.97 | 2.88 | MWD | None |
| | 499.08 | 37.90 | 211.80 | 5.00 | 471.35 | 114.97 | -104.53 | -58.03 | 119.56 | 209.04 | 2.68 | MWD | None |
| | | | | | | | | | | | | | |
| 91 | 504.08 | 38.35 | 211.81 | 5.00 | 475.29 | 117.97 | -107.15 | -59.66 | 122.64 | 209.11 | 2.74 | MWD | None |
| | 509.08 | 38.99 | 211.91 | 5.00 | 479.19 | 121.00 | -109.81 | -61.31 | 125.76 | 209.18 | 3.92 | MWD | None |

| | | | | | | | | | | | | | |
|-----|--------|-------|--------|------|--------|--------|---------|---------|--------|--------|------|-----|------|
| 93 | 514.08 | 39.45 | 211.97 | 5.00 | 483.07 | 124.08 | -112.49 | -62.98 | 128.92 | 209.24 | 2.81 | MWD | None |
| 94 | 519.08 | 39.98 | 211.97 | 5.00 | 486.91 | 127.18 | -115.20 | -64.67 | 132.11 | 209.31 | 3.23 | MWD | None |
| 95 | 524.08 | 40.39 | 212.08 | 5.00 | 490.73 | 130.31 | -117.93 | -66.39 | 135.34 | 209.38 | 2.54 | MWD | None |
| 96 | 529.08 | 40.95 | 212.15 | 5.00 | 494.52 | 133.48 | -120.69 | -68.12 | 138.59 | 209.44 | 3.43 | MWD | None |
| 97 | 534.08 | 41.48 | 212.20 | 5.00 | 498.28 | 136.69 | -123.48 | -69.87 | 141.88 | 209.50 | 3.24 | MWD | None |
| 98 | 539.08 | 41.93 | 212.23 | 5.00 | 502.02 | 139.92 | -126.30 | -71.65 | 145.20 | 209.57 | 2.75 | MWD | None |
| 99 | 544.08 | 42.36 | 212.26 | 5.00 | 505.73 | 143.19 | -129.14 | -73.44 | 148.56 | 209.63 | 2.62 | MWD | None |
| 100 | 549.08 | 42.84 | 212.31 | 5.00 | 509.41 | 146.48 | -132.00 | -75.24 | 151.94 | 209.68 | 2.93 | MWD | None |
| 101 | 554.08 | 43.36 | 212.39 | 5.00 | 513.06 | 149.80 | -134.88 | -77.07 | 155.35 | 209.74 | 3.19 | MWD | None |
| 102 | 559.08 | 43.91 | 212.47 | 5.00 | 516.67 | 153.16 | -137.79 | -78.92 | 158.80 | 209.80 | 3.37 | MWD | None |
| 103 | 564.08 | 44.39 | 212.54 | 5.00 | 520.26 | 156.55 | -140.73 | -80.79 | 162.27 | 209.86 | 2.94 | MWD | None |
| 104 | 569.08 | 44.88 | 212.59 | 5.00 | 523.82 | 159.97 | -143.69 | -82.68 | 165.78 | 209.92 | 2.99 | MWD | None |
| 105 | 574.08 | 45.35 | 212.68 | 5.00 | 527.35 | 163.43 | -146.68 | -84.59 | 169.32 | 209.97 | 2.89 | MWD | None |
| 106 | 579.08 | 45.99 | 212.81 | 5.00 | 530.84 | 166.91 | -149.68 | -86.53 | 172.89 | 210.03 | 3.94 | MWD | None |
| 107 | 584.08 | 46.34 | 212.87 | 5.00 | 534.31 | 170.43 | -152.71 | -88.49 | 176.50 | 210.09 | 2.15 | MWD | None |
| 108 | 589.08 | 46.91 | 212.92 | 5.00 | 537.74 | 173.97 | -155.77 | -90.46 | 180.13 | 210.15 | 3.48 | MWD | None |
| 109 | 594.08 | 47.52 | 212.90 | 5.00 | 541.14 | 177.55 | -158.85 | -92.45 | 183.79 | 210.20 | 3.72 | MWD | None |
| 110 | 599.08 | 48.11 | 212.89 | 5.00 | 544.49 | 181.17 | -161.96 | -94.46 | 187.49 | 210.25 | 3.60 | MWD | None |
| 111 | 604.08 | 48.55 | 212.90 | 5.00 | 547.82 | 184.81 | -165.09 | -96.49 | 191.22 | 210.31 | 2.68 | MWD | None |
| 112 | 609.08 | 48.99 | 212.94 | 5.00 | 551.11 | 188.48 | -168.25 | -98.54 | 194.98 | 210.36 | 2.69 | MWD | None |
| 113 | 614.08 | 49.61 | 213.03 | 5.00 | 554.37 | 192.17 | -171.43 | -100.60 | 198.77 | 210.41 | 3.80 | MWD | None |
| 114 | 619.08 | 49.96 | 213.14 | 5.00 | 557.60 | 195.90 | -174.63 | -102.68 | 202.58 | 210.46 | 2.19 | MWD | None |
| 115 | 624.08 | 50.61 | 213.13 | 5.00 | 560.80 | 199.65 | -177.85 | -104.79 | 206.42 | 210.51 | 3.96 | MWD | None |
| 116 | 629.08 | 51.13 | 213.28 | 5.00 | 563.95 | 203.44 | -181.09 | -106.91 | 210.30 | 210.56 | 3.25 | MWD | None |
| 117 | 634.08 | 51.57 | 213.33 | 5.00 | 567.07 | 207.26 | -184.36 | -109.06 | 214.20 | 210.61 | 2.69 | MWD | None |
| 118 | 639.08 | 52.25 | 213.45 | 5.00 | 570.16 | 211.10 | -187.64 | -111.22 | 218.13 | 210.66 | 4.19 | MWD | None |
| 119 | 644.08 | 52.76 | 213.55 | 5.00 | 573.20 | 214.98 | -190.95 | -113.41 | 222.09 | 210.71 | 3.15 | MWD | None |
| 120 | 649.08 | 53.34 | 213.68 | 5.00 | 576.21 | 218.89 | -194.28 | -115.62 | 226.08 | 210.76 | 3.59 | MWD | None |
| 121 | 654.08 | 53.70 | 213.68 | 5.00 | 579.18 | 222.82 | -197.62 | -117.85 | 230.10 | 210.81 | 2.19 | MWD | None |
| 122 | 659.08 | 54.45 | 213.76 | 5.00 | 582.11 | 226.78 | -200.99 | -120.10 | 234.14 | 210.86 | 4.59 | MWD | None |
| 123 | 664.08 | 54.97 | 213.82 | 5.00 | 585.00 | 230.78 | -204.38 | -122.37 | 238.22 | 210.91 | 3.18 | MWD | None |
| 124 | 669.08 | 55.76 | 213.80 | 5.00 | 587.84 | 234.80 | -207.80 | -124.66 | 242.33 | 210.96 | 4.82 | MWD | None |
| 125 | 674.08 | 56.38 | 213.73 | 5.00 | 590.64 | 238.86 | -211.25 | -126.96 | 246.47 | 211.01 | 3.80 | MWD | None |
| 126 | 679.08 | 56.97 | 213.77 | 5.00 | 593.38 | 242.95 | -214.73 | -129.29 | 250.64 | 211.05 | 3.60 | MWD | None |
| 127 | 684.08 | 57.55 | 213.86 | 5.00 | 596.09 | 247.07 | -218.22 | -131.63 | 254.84 | 211.10 | 3.57 | MWD | None |
| 128 | 689.08 | 58.12 | 213.83 | 5.00 | 598.75 | 251.21 | -221.73 | -133.98 | 259.07 | 211.14 | 3.48 | MWD | None |
| 129 | 694.08 | 58.80 | 213.81 | 5.00 | 601.36 | 255.38 | -225.27 | -136.36 | 263.33 | 211.19 | 4.15 | MWD | None |
| 130 | 699.08 | 59.51 | 213.82 | 5.00 | 603.93 | 259.58 | -228.84 | -138.74 | 267.62 | 211.23 | 4.33 | MWD | None |
| 131 | 704.08 | 60.06 | 213.82 | 5.00 | 606.44 | 263.81 | -232.43 | -141.15 | 271.93 | 211.27 | 3.35 | MWD | None |
| 132 | 709.08 | 60.74 | 213.81 | 5.00 | 608.91 | 268.06 | -236.04 | -143.57 | 276.28 | 211.31 | 4.15 | MWD | None |
| 133 | 714.08 | 61.41 | 213.80 | 5.00 | 611.33 | 272.35 | -239.68 | -146.00 | 280.65 | 211.35 | 4.08 | MWD | None |
| 134 | 719.08 | 62.00 | 213.77 | 5.00 | 613.70 | 276.66 | -243.34 | -148.45 | 285.05 | 211.39 | 3.60 | MWD | None |
| 135 | 724.08 | 62.60 | 213.80 | 5.00 | 616.03 | 280.99 | -247.02 | -150.91 | 289.47 | 211.42 | 3.66 | MWD | None |
| 136 | 729.08 | 63.20 | 213.78 | 5.00 | 618.30 | 285.34 | -250.72 | -153.39 | 293.92 | 211.46 | 3.66 | MWD | None |
| 137 | 734.08 | 63.89 | 213.68 | 5.00 | 620.53 | 289.72 | -254.44 | -155.87 | 298.39 | 211.49 | 4.24 | MWD | None |
| 138 | 739.08 | 64.17 | 213.74 | 5.00 | 622.72 | 294.12 | -258.18 | -158.37 | 302.88 | 211.53 | 1.74 | MWD | None |
| 139 | 744.08 | 64.56 | 213.70 | 5.00 | 624.88 | 298.53 | -261.93 | -160.87 | 307.39 | 211.56 | 2.39 | MWD | None |
| 140 | 749.08 | 64.79 | 213.71 | 5.00 | 627.02 | 302.95 | -265.69 | -163.38 | 311.90 | 211.59 | 1.40 | MWD | None |
| 141 | 754.08 | 64.83 | 213.72 | 5.00 | 629.15 | 307.38 | -269.45 | -165.89 | 316.42 | 211.62 | 0.25 | MWD | None |
| 142 | 759.08 | 64.85 | 213.69 | 5.00 | 631.28 | 311.81 | -273.22 | -168.40 | 320.95 | 211.65 | 0.21 | MWD | None |
| 143 | 764.08 | 64.76 | 213.66 | 5.00 | 633.41 | 316.23 | -276.98 | -170.91 | 325.47 | 211.68 | 0.57 | MWD | None |
| 144 | 769.08 | 64.66 | 213.65 | 5.00 | 635.54 | 320.65 | -280.75 | -173.42 | 329.99 | 211.70 | 0.61 | MWD | None |
| 145 | 774.08 | 64.49 | 213.66 | 5.00 | 637.69 | 325.07 | -284.50 | -175.92 | 334.50 | 211.73 | 1.04 | MWD | None |
| 146 | 779.08 | 64.35 | 213.70 | 5.00 | 639.85 | 329.48 | -288.26 | -178.42 | 339.01 | 211.76 | 0.88 | MWD | None |
| 147 | 784.08 | 64.25 | 213.74 | 5.00 | 642.01 | 333.89 | -292.00 | -180.92 | 343.51 | 211.78 | 0.65 | MWD | None |
| 148 | 789.08 | 64.16 | 213.77 | 5.00 | 644.19 | 338.30 | -295.75 | -183.42 | 348.01 | 211.81 | 0.57 | MWD | None |
| 149 | 794.08 | 64.18 | 213.81 | 5.00 | 646.37 | 342.70 | -299.49 | -185.93 | 352.51 | 211.83 | 0.25 | MWD | None |
| 150 | 799.08 | 64.02 | 213.83 | 5.00 | 648.55 | 347.10 | -303.22 | -188.43 | 357.00 | 211.86 | 0.98 | MWD | None |
| 151 | 804.08 | 63.78 | 213.83 | 5.00 | 650.75 | 351.50 | -306.95 | -190.93 | 361.49 | 211.88 | 1.46 | MWD | None |
| 152 | 809.08 | 63.63 | 213.83 | 5.00 | 652.97 | 355.88 | -310.68 | -193.42 | 365.97 | 211.91 | 0.91 | MWD | None |
| 153 | 814.08 | 63.55 | 213.85 | 5.00 | 655.19 | 360.27 | -314.40 | -195.92 | 370.44 | 211.93 | 0.50 | MWD | None |
| 154 | 819.08 | 63.63 | 213.90 | 5.00 | 657.42 | 364.65 | -318.12 | -198.41 | 374.92 | 211.95 | 0.56 | MWD | None |
| 155 | 824.08 | 63.72 | 213.95 | 5.00 | 659.63 | 369.04 | -321.83 | -200.91 | 379.40 | 211.98 | 0.61 | MWD | None |
| 156 | 829.08 | 63.97 | 213.97 | 5.00 | 661.84 | 373.43 | -325.56 | -203.42 | 383.88 | 212.00 | 1.53 | MWD | None |
| 157 | 834.08 | 64.27 | 213.98 | 5.00 | 664.02 | 377.84 | -329.29 | -205.94 | 388.38 | 212.02 | 1.83 | MWD | None |
| 158 | 839.08 | 64.53 | 213.97 | 5.00 | 666.18 | 382.25 | -333.03 | -208.46 | 392.89 | 212.04 | 1.59 | MWD | None |
| 159 | 844.08 | 65.01 | 214.01 | 5.00 | 668.31 | 386.68 | -336.78 | -210.98 | 397.41 | 212.07 | 2.93 | MWD | None |
| 160 | 849.08 | 65.47 | 214.01 | 5.00 | 670.41 | 391.13 | -340.54 | -213.52 | 401.95 | 212.09 | 2.80 | MWD | None |
| 161 | 854.08 | 65.90 | 214.04 | 5.00 | 672.46 | 395.59 | -344.32 | -216.07 | 406.50 | 212.11 | 2.63 | MWD | None |
| 162 | 859.08 | 66.47 | 214.04 | 5.00 | 674.48 | 400.07 | -348.11 | -218.63 | 411.07 | 212.13 | 3.47 | MWD | None |
| 163 | 864.08 | 66.94 | 214.05 | 5.00 | 676.46 | 404.57 | -351.91 | -221.21 | 415.66 | 212.15 | 2.87 | MWD | None |
| 164 | 869.08 | 67.48 | 214.10 | 5.00 | 678.40 | 409.09 | -355.73 | -223.79 | 420.27 | 212.17 | 3.30 | MWD | None |
| 165 | 874.08 | 67.94 | 214.10 | 5.00 | 680.29 | 413.62 | -359.56 | -226.38 | 424.89 | 212.19 | 2.80 | MWD | None |
| 166 | 879.08 | 68.48 | 214.12 | 5.00 | 682.15 | 418.17 | -363.41 | -228.99 | 429.53 | 212.22 | 3.29 | MWD | None |
| 167 | 884.08 | 68.97 | 214.15 | 5.00 | 683.96 | 422.74 | -367.26 | -231.60 | 434.19 | 212.24 | 2.99 | MWD | None |
| 168 | 889.08 | 69.43 | 214.15 | 5.00 | 685.74 | 427.32 | -371.13 | -234.22 | 438.86 | 212.26 | 2.80 | MWD | None |
| 169 | 894.08 | 69.84 | 214.17 | 5.00 | 687.48 | 431.91 | -375.01 | -236.86 | 443.54 | 212.28 | 2.50 | MWD | None |
| 170 | 899.08 | 70.11 | 214.19 | 5.00 | 689.19 | 436.51 | -378.90 | -239.49 | 448.24 | 212.30 | 1.65 | MWD | None |
| 171 | 904.08 | 70.37 | 214.22 | 5.00 | 690.88 | 441.12 | -382.79 | -242.14 | 452.94 | 212.32 | 1.59 | MWD | None |
| 172 | 909.08 | 70.40 | 214.29 | 5.00 | 692.56 | 445.74 | -386.68 | -244.79 | 457.65 | 212.34 | 0.44 | MWD | None |


| | | | | | | | | | | | | | |
|-----|---------|-------|--------|-------|---------|---------|----------|----------|---------|--------|------|-----|------|
| 173 | 914.08 | 70.50 | 214.38 | 5.00 | 694.23 | 450.36 | -390.57 | -247.45 | 462.36 | 212.36 | 0.80 | MWD | None |
| 174 | 929.77 | 69.92 | 213.75 | 15.69 | 699.55 | 464.82 | -402.80 | -255.72 | 477.12 | 212.41 | 1.61 | MWD | None |
| 175 | 958.90 | 70.38 | 217.36 | 29.13 | 709.44 | 491.79 | -425.09 | -271.65 | 504.47 | 212.58 | 3.59 | MWD | None |
| 176 | 1031.43 | 71.86 | 227.29 | 72.53 | 732.96 | 560.20 | -475.73 | -317.81 | 572.12 | 213.74 | 4.00 | MWD | None |
| 177 | 1061.56 | 72.45 | 230.93 | 30.13 | 742.20 | 588.82 | -494.50 | -339.48 | 599.81 | 214.47 | 3.56 | MWD | None |
| 178 | 1090.97 | 72.64 | 236.97 | 29.41 | 751.03 | 616.57 | -511.00 | -362.15 | 626.32 | 215.33 | 5.97 | MWD | None |
| 179 | 1119.77 | 72.71 | 242.74 | 28.80 | 759.61 | 643.21 | -524.80 | -385.92 | 651.42 | 216.33 | 5.83 | MWD | None |
| 180 | 1149.27 | 72.81 | 246.25 | 29.50 | 768.36 | 669.87 | -536.93 | -411.34 | 676.38 | 217.46 | 3.47 | MWD | None |
| 181 | 1178.56 | 73.01 | 249.35 | 29.29 | 776.96 | 695.80 | -547.50 | -437.26 | 700.68 | 218.61 | 3.09 | MWD | None |
| 182 | 1207.68 | 73.11 | 252.09 | 29.12 | 785.45 | 721.03 | -556.70 | -463.55 | 724.43 | 219.78 | 2.75 | MWD | None |
| 183 | 1236.43 | 73.19 | 255.64 | 28.75 | 793.79 | 745.27 | -564.35 | -489.98 | 747.37 | 220.97 | 3.60 | MWD | None |
| 184 | 1265.97 | 73.19 | 259.34 | 29.54 | 802.33 | 769.29 | -570.47 | -517.58 | 770.28 | 222.22 | 3.65 | MWD | None |
| 185 | 1295.26 | 75.10 | 260.12 | 29.29 | 810.33 | 792.63 | -575.49 | -545.30 | 792.81 | 223.46 | 2.14 | MWD | None |
| 186 | 1324.52 | 77.31 | 260.06 | 29.26 | 817.31 | 816.07 | -580.38 | -573.29 | 815.79 | 224.65 | 2.30 | MWD | None |
| 187 | 1353.14 | 80.46 | 259.60 | 28.62 | 822.83 | 839.30 | -585.34 | -600.93 | 838.89 | 225.75 | 3.39 | MWD | None |
| 188 | 1382.46 | 83.82 | 258.62 | 29.32 | 826.84 | 863.53 | -590.83 | -629.45 | 863.30 | 226.81 | 3.64 | MWD | None |
| 189 | 1411.86 | 84.45 | 254.99 | 29.40 | 829.84 | 888.56 | -597.50 | -657.92 | 888.74 | 227.76 | 3.80 | MWD | None |
| 190 | 1438.99 | 84.34 | 253.00 | 27.13 | 832.49 | 912.32 | -604.95 | -683.87 | 913.04 | 228.50 | 2.23 | MWD | None |
| 191 | 1469.73 | 84.22 | 251.43 | 30.74 | 835.56 | 939.68 | -614.29 | -712.99 | 941.12 | 229.25 | 1.55 | MWD | None |
| 192 | 1495.08 | 83.10 | 249.56 | 25.35 | 838.36 | 962.55 | -622.70 | -736.74 | 964.65 | 229.80 | 2.61 | MWD | None |
| 193 | 1524.61 | 83.35 | 248.29 | 29.53 | 841.84 | 989.48 | -633.25 | -764.10 | 992.40 | 230.35 | 1.33 | MWD | None |
| 194 | 1557.55 | 81.71 | 246.72 | 32.94 | 846.12 | 1019.80 | -645.74 | -794.28 | 1023.65 | 230.89 | 2.09 | MWD | None |
| 195 | 1586.20 | 81.97 | 245.06 | 28.65 | 850.19 | 1046.41 | -657.32 | -820.16 | 1051.07 | 231.29 | 1.77 | MWD | None |
| 196 | 1615.69 | 82.06 | 242.94 | 29.49 | 854.29 | 1074.13 | -670.13 | -846.41 | 1079.57 | 231.63 | 2.17 | MWD | None |
| 197 | 1645.11 | 82.29 | 241.37 | 29.42 | 858.29 | 1102.07 | -683.74 | -872.18 | 1108.24 | 231.91 | 1.63 | MWD | None |
| 198 | 1674.05 | 82.03 | 240.31 | 28.94 | 862.24 | 1129.74 | -697.71 | -897.21 | 1136.57 | 232.13 | 1.14 | MWD | None |
| 199 | 1703.12 | 82.32 | 238.35 | 29.07 | 866.20 | 1157.72 | -712.40 | -921.98 | 1165.15 | 232.31 | 2.06 | MWD | None |
| 200 | 1732.30 | 82.20 | 236.84 | 29.18 | 870.13 | 1186.01 | -727.89 | -946.39 | 1193.94 | 232.44 | 1.57 | MWD | None |
| 201 | 1761.47 | 82.34 | 235.21 | 29.17 | 874.05 | 1214.44 | -744.05 | -970.36 | 1222.79 | 232.52 | 1.69 | MWD | None |
| 202 | 1790.91 | 82.17 | 232.75 | 29.44 | 878.02 | 1243.30 | -761.20 | -993.96 | 1251.95 | 232.55 | 2.53 | MWD | None |
| 203 | 1819.75 | 82.34 | 230.57 | 28.84 | 881.91 | 1271.72 | -778.92 | -1016.37 | 1280.52 | 232.53 | 2.29 | MWD | None |
| 204 | 1849.17 | 82.20 | 228.35 | 29.42 | 885.86 | 1300.81 | -797.87 | -1038.52 | 1309.63 | 232.47 | 2.28 | MWD | None |
| 205 | 1878.57 | 82.21 | 225.34 | 29.40 | 889.85 | 1329.93 | -817.79 | -1059.77 | 1338.62 | 232.34 | 3.09 | MWD | None |
| 206 | 1907.72 | 83.13 | 222.85 | 29.15 | 893.57 | 1358.83 | -838.56 | -1079.89 | 1367.23 | 232.17 | 2.76 | MWD | None |
| 207 | 1936.37 | 83.16 | 219.37 | 28.65 | 896.99 | 1387.18 | -859.98 | -1098.59 | 1395.16 | 231.95 | 3.68 | MWD | None |
| 208 | 1965.65 | 83.33 | 216.22 | 29.28 | 900.44 | 1415.98 | -882.96 | -1116.40 | 1423.36 | 231.66 | 3.26 | MWD | None |
| 209 | 1994.86 | 83.27 | 219.15 | 29.21 | 903.85 | 1444.70 | -905.91 | -1134.13 | 1451.53 | 231.38 | 3.04 | MWD | None |
| 210 | 2024.29 | 83.27 | 221.55 | 29.43 | 907.30 | 1473.80 | -928.19 | -1153.06 | 1480.23 | 231.17 | 2.47 | MWD | None |
| 211 | 2053.19 | 83.24 | 220.75 | 28.90 | 910.69 | 1502.41 | -949.80 | -1171.94 | 1508.50 | 230.98 | 0.84 | MWD | None |
| 212 | 2082.34 | 82.86 | 221.32 | 29.15 | 914.22 | 1531.26 | -971.62 | -1190.94 | 1537.01 | 230.79 | 0.71 | MWD | None |
| 213 | 2111.43 | 82.87 | 221.69 | 29.09 | 917.83 | 1560.04 | -993.24 | -1210.07 | 1565.50 | 230.62 | 0.38 | MWD | None |
| 214 | 2140.76 | 82.95 | 221.72 | 29.33 | 921.45 | 1589.08 | -1014.97 | -1229.43 | 1594.26 | 230.46 | 0.09 | MWD | None |
| 215 | 2169.42 | 83.04 | 221.71 | 28.66 | 924.95 | 1617.46 | -1036.20 | -1248.36 | 1622.38 | 230.31 | 0.10 | MWD | None |
| 216 | 2198.60 | 82.92 | 221.88 | 29.18 | 928.51 | 1646.36 | -1057.80 | -1267.66 | 1651.03 | 230.16 | 0.22 | MWD | None |
| 217 | 2227.83 | 82.95 | 222.43 | 29.23 | 932.11 | 1675.31 | -1079.30 | -1287.13 | 1679.76 | 230.02 | 0.57 | MWD | None |
| 218 | 2257.56 | 83.07 | 223.04 | 29.73 | 935.73 | 1704.78 | -1100.97 | -1307.15 | 1709.03 | 229.89 | 0.63 | MWD | None |
| 219 | 2286.54 | 82.81 | 223.64 | 28.98 | 939.29 | 1733.52 | -1121.89 | -1326.89 | 1737.61 | 229.79 | 0.68 | MWD | None |
| 220 | 2315.08 | 82.92 | 223.72 | 28.54 | 942.83 | 1761.82 | -1142.37 | -1346.45 | 1765.77 | 229.69 | 0.14 | MWD | None |
| 221 | 2344.40 | 82.93 | 223.65 | 29.32 | 946.44 | 1790.90 | -1163.41 | -1366.55 | 1794.71 | 229.59 | 0.07 | MWD | None |
| 222 | 2373.54 | 82.81 | 224.10 | 29.14 | 950.06 | 1819.80 | -1184.26 | -1386.59 | 1823.48 | 229.50 | 0.48 | MWD | None |
| 223 | 2402.26 | 82.90 | 224.09 | 28.72 | 953.63 | 1848.28 | -1204.72 | -1406.42 | 1851.85 | 229.42 | 0.10 | MWD | None |
| 224 | 2431.99 | 82.78 | 224.18 | 29.73 | 957.34 | 1877.77 | -1225.89 | -1426.96 | 1881.23 | 229.33 | 0.15 | MWD | None |
| 225 | 2461.30 | 83.07 | 224.67 | 29.31 | 960.95 | 1906.85 | -1246.67 | -1447.32 | 1910.21 | 229.26 | 0.59 | MWD | None |
| 226 | 2490.43 | 82.98 | 224.61 | 29.13 | 964.49 | 1935.76 | -1267.24 | -1467.64 | 1939.03 | 229.19 | 0.11 | MWD | None |
| 227 | 2519.16 | 82.90 | 225.31 | 28.73 | 968.02 | 1964.27 | -1287.41 | -1487.78 | 1967.47 | 229.13 | 0.74 | MWD | None |
| 228 | 2548.71 | 82.84 | 225.23 | 29.55 | 971.68 | 1993.59 | -1308.05 | -1508.61 | 1996.72 | 229.07 | 0.10 | MWD | None |
| 229 | 2576.88 | 82.89 | 224.82 | 28.17 | 975.18 | 2021.54 | -1327.81 | -1528.39 | 2024.61 | 229.02 | 0.44 | MWD | None |
| 230 | 2606.68 | 83.04 | 223.80 | 29.80 | 978.83 | 2051.11 | -1348.97 | -1549.05 | 2054.08 | 228.95 | 1.05 | MWD | None |
| 231 | 2635.65 | 82.75 | 223.17 | 28.97 | 982.42 | 2079.84 | -1369.83 | -1568.83 | 2082.70 | 228.87 | 0.73 | MWD | None |
| 232 | 2665.14 | 83.07 | 222.28 | 29.49 | 986.06 | 2109.06 | -1391.32 | -1588.68 | 2111.80 | 228.79 | 0.97 | MWD | None |
| 233 | 2694.34 | 82.87 | 221.77 | 29.20 | 989.63 | 2137.98 | -1412.85 | -1608.09 | 2140.58 | 228.70 | 0.57 | MWD | None |
| 234 | 2723.69 | 83.10 | 221.82 | 29.35 | 993.22 | 2167.05 | -1434.57 | -1627.50 | 2169.50 | 228.61 | 0.24 | MWD | None |
| 235 | 2752.63 | 82.64 | 221.29 | 28.94 | 996.81 | 2195.69 | -1456.06 | -1646.55 | 2198.01 | 228.51 | 0.74 | MWD | None |
| 236 | 2781.37 | 83.01 | 221.24 | 28.74 | 1000.40 | 2224.12 | -1477.49 | -1665.36 | 2226.30 | 228.42 | 0.40 | MWD | None |
| 237 | 2810.86 | 83.04 | 221.21 | 29.49 | 1003.98 | 2253.31 | -1499.51 | -1684.65 | 2255.34 | 228.33 | 0.04 | MWD | None |
| 238 | 2840.20 | 83.07 | 221.43 | 29.34 | 1007.53 | 2282.35 | -1521.38 | -1703.88 | 2284.25 | 228.24 | 0.23 | MWD | None |
| 239 | 2868.83 | 83.12 | 221.37 | 28.63 | 1010.97 | 2310.69 | -1542.70 | -1722.67 | 2312.47 | 228.15 | 0.08 | MWD | None |
| 240 | 2898.20 | 82.98 | 221.17 | 29.37 | 1014.52 | 2339.76 | -1564.62 | -1741.90 | 2341.42 | 228.07 | 0.25 | MWD | None |
| 241 | 2926.78 | 82.87 | 221.21 | 28.58 | 1018.04 | 2368.04 | -1585.96 | -1760.58 | 2369.58 | 227.99 | 0.12 | MWD | None |
| 242 | 2956.18 | 83.01 | 221.48 | 29.40 | 1021.66 | 2397.13 | -1607.86 | -1779.86 | 2398.56 | 227.91 | 0.31 | MWD | None |
| 243 | 2984.65 | 82.72 | 221.70 | 28.47 | 1025.19 | 2425.31 | -1628.99 | -1798.61 | 2426.64 | 227.83 | 0.39 | MWD | None |
| 244 | 3014.30 | 83.21 | 223.15 | 29.65 | 1028.82 | 2454.69 | -1650.71 | -1818.46 | 2455.94 | 227.77 | 1.56 | MWD | None |
| 245 | 3043.56 | 82.55 | 223.31 | 29.26 | 1032.45 | 2483.70 | -1671.87 | -1838.34 | 2484.88 | 227.72 | 0.71 | MWD | None |
| 246 | 3073.02 | 83.12 | 223.13 | 29.46 | 1036.12 | 2512.90 | -1693.17 | -1858.36 | 2514.03 | 227.66 | 0.62 | MWD | None |
| 247 | 3112.02 | 82.84 | 222.53 | 39.00 | 1040.89 | 2551.56 | -1721.55 | -1884.68 | 2552.60 | 227.59 | 0.51 | MWD | None |
| 248 | 3131.41 | 82.98 | 222.60 | 19.39 | 1043.28 | 2570.77 | -1735.73 | -1897.69 | 2571.77 | 227.55 | 0.25 | MWD | None |
| 249 | 3160.44 | 83.13 | 223.05 | 29.03 | 1046.79 | 2599.55 | -1756.86 | -1917.28 | 2600.49 | 227.50 | 0.49 | MWD | None |
| 250 | 3198.90 | 82.95 | 223.10 | 38.46 | 1051.45 | 2637.69 | -1784.75 | -1943.35 | 2638.55 | 227.44 | 0.15 | MWD | None |
| 251 | 3228.02 | 82.72 | 222.88 | 29.12 | 1055.09 | 2666.55 | -1805.88 | -1963.05 | 2667.36 | 227.39 | 0.33 | MWD | None |
| 252 | 3248.86 | 82.81 | 222.86 | 29.44 | 1057.58 | 2686.43 | -1828.43 | -1976.63 | 2687.18 | 227.36 | 0.52 | MWD | None |

| | | | | | | | | | | | | | |
|-----|---------|-------|--------|-------|---------|---------|----------|----------|---------|--------|------|-------|-------|
| 252 | 3248.06 | 83.01 | 223.06 | 20.04 | 1057.58 | 2686.42 | -1820.43 | -1976.61 | 2687.18 | 227.36 | 0.52 | MWD | None |
| 253 | 3277.44 | 82.87 | 223.02 | 29.38 | 1061.19 | 2715.54 | -1841.74 | -1996.51 | 2716.26 | 227.31 | 0.15 | MWD | None |
| 254 | 3306.48 | 82.84 | 222.85 | 29.04 | 1064.80 | 2744.32 | -1862.84 | -2016.14 | 2744.99 | 227.26 | 0.18 | MWD | None |
| 255 | 3335.61 | 82.98 | 222.85 | 29.13 | 1068.39 | 2773.20 | -1884.03 | -2035.79 | 2773.81 | 227.22 | 0.15 | MWD | None |
| 256 | 3365.04 | 82.93 | 222.99 | 29.43 | 1072.00 | 2802.37 | -1905.42 | -2055.68 | 2802.94 | 227.17 | 0.15 | MWD | None |
| 257 | 3393.88 | 83.02 | 223.15 | 28.84 | 1075.53 | 2830.97 | -1926.33 | -2075.23 | 2831.49 | 227.13 | 0.19 | MWD | None |
| 258 | 3423.18 | 82.93 | 223.14 | 29.30 | 1079.11 | 2860.02 | -1947.55 | -2095.12 | 2860.50 | 227.09 | 0.09 | MWD | None |
| 259 | 3452.58 | 82.87 | 223.46 | 29.40 | 1082.75 | 2889.17 | -1968.78 | -2115.13 | 2889.61 | 227.05 | 0.34 | MWD | None |
| 260 | 3481.86 | 83.04 | 222.77 | 29.28 | 1086.34 | 2918.20 | -1989.99 | -2134.99 | 2918.60 | 227.01 | 0.73 | MWD | None |
| 261 | 3510.74 | 83.04 | 222.63 | 28.88 | 1089.84 | 2946.83 | -2011.06 | -2154.43 | 2947.19 | 226.97 | 0.15 | MWD | None |
| 262 | 3539.69 | 83.04 | 222.63 | 28.95 | 1093.35 | 2975.52 | -2032.20 | -2173.89 | 2975.84 | 226.93 | 0.00 | MWD | None |
| 263 | 3568.44 | 83.04 | 222.48 | 28.75 | 1096.83 | 3004.02 | -2053.23 | -2193.19 | 3004.30 | 226.89 | 0.16 | MWD | None |
| 264 | 3598.02 | 82.98 | 222.36 | 29.58 | 1100.43 | 3033.33 | -2074.90 | -2212.99 | 3033.57 | 226.84 | 0.14 | MWD | None |
| 265 | 3627.49 | 82.92 | 222.68 | 29.47 | 1104.05 | 3062.54 | -2096.46 | -2232.76 | 3062.74 | 226.80 | 0.33 | MWD | None |
| 266 | 3656.73 | 83.01 | 222.80 | 29.24 | 1107.63 | 3091.52 | -2117.77 | -2252.46 | 3091.68 | 226.77 | 0.16 | MWD | None |
| 267 | 3685.30 | 82.90 | 222.67 | 28.57 | 1111.13 | 3119.83 | -2138.60 | -2271.70 | 3119.97 | 226.73 | 0.18 | MWD | None |
| 268 | 3714.76 | 82.81 | 222.80 | 29.46 | 1114.80 | 3149.03 | -2160.07 | -2291.53 | 3149.13 | 226.69 | 0.16 | MWD | None |
| 269 | 3743.85 | 82.92 | 222.70 | 29.09 | 1118.41 | 3177.86 | -2181.26 | -2311.13 | 3177.93 | 226.66 | 0.16 | MWD | None |
| 270 | 3772.89 | 82.90 | 222.71 | 29.04 | 1121.99 | 3206.63 | -2202.44 | -2330.67 | 3206.68 | 226.62 | 0.02 | MWD | None |
| 271 | 3802.03 | 82.78 | 222.85 | 29.14 | 1125.63 | 3235.51 | -2223.66 | -2350.31 | 3235.52 | 226.59 | 0.19 | MWD | None |
| 272 | 3831.57 | 82.95 | 222.73 | 29.54 | 1129.30 | 3264.79 | -2245.17 | -2370.22 | 3264.77 | 226.55 | 0.21 | MWD | None |
| 273 | 3860.84 | 82.93 | 222.76 | 29.27 | 1132.89 | 3293.80 | -2266.50 | -2389.94 | 3293.76 | 226.52 | 0.04 | MWD | None |
| 274 | 3890.43 | 83.01 | 222.65 | 29.59 | 1136.52 | 3323.12 | -2288.08 | -2409.86 | 3323.06 | 226.48 | 0.14 | MWD | None |
| 275 | 3918.61 | 83.10 | 222.98 | 28.18 | 1139.92 | 3351.06 | -2308.60 | -2428.87 | 3350.98 | 226.45 | 0.37 | MWD | None |
| 276 | 3948.60 | 82.95 | 222.88 | 29.99 | 1143.56 | 3380.80 | -2330.40 | -2449.14 | 3380.69 | 226.42 | 0.18 | MWD | None |
| 277 | 3977.32 | 83.01 | 222.99 | 28.72 | 1147.07 | 3409.27 | -2351.27 | -2468.56 | 3409.14 | 226.39 | 0.13 | MWD | None |
| 278 | 4006.70 | 82.69 | 222.84 | 29.38 | 1150.73 | 3438.39 | -2372.62 | -2488.41 | 3438.24 | 226.36 | 0.37 | MWD | None |
| 279 | 4036.26 | 81.37 | 222.53 | 29.56 | 1154.83 | 3467.62 | -2394.14 | -2508.25 | 3467.45 | 226.33 | 1.40 | MWD | None |
| 280 | 4066.07 | 77.51 | 221.67 | 29.81 | 1160.29 | 3496.87 | -2415.87 | -2527.90 | 3496.67 | 226.30 | 4.04 | MWD | None |
| 281 | 4095.39 | 73.91 | 220.89 | 29.32 | 1167.53 | 3525.19 | -2437.22 | -2546.64 | 3524.97 | 226.26 | 3.82 | MWD | None |
| 282 | 4123.52 | 70.84 | 220.51 | 28.13 | 1176.04 | 3551.90 | -2457.54 | -2564.12 | 3551.65 | 226.22 | 3.35 | MWD | None |
| 283 | 4153.05 | 68.11 | 220.64 | 29.53 | 1186.40 | 3579.44 | -2478.55 | -2582.11 | 3579.17 | 226.17 | 2.82 | MWD | None |
| 284 | 4182.48 | 65.88 | 220.41 | 29.43 | 1197.90 | 3606.42 | -2499.14 | -2599.71 | 3606.13 | 226.13 | 2.32 | MWD | None |
| 285 | 4211.99 | 62.57 | 221.14 | 29.51 | 1210.73 | 3632.89 | -2519.26 | -2617.06 | 3632.59 | 226.09 | 3.49 | MWD | None |
| 286 | 4241.13 | 58.93 | 221.72 | 29.14 | 1224.96 | 3658.24 | -2538.32 | -2633.88 | 3657.92 | 226.06 | 3.84 | MWD | None |
| 287 | 4270.18 | 55.34 | 222.42 | 29.05 | 1240.73 | 3682.59 | -2556.43 | -2650.22 | 3682.26 | 226.03 | 3.82 | MWD | None |
| 288 | 4299.75 | 51.76 | 223.11 | 29.57 | 1258.29 | 3706.34 | -2573.89 | -2666.37 | 3706.00 | 226.01 | 3.73 | MWD | None |
| 289 | 4328.84 | 50.02 | 223.66 | 29.09 | 1276.64 | 3728.90 | -2590.30 | -2681.87 | 3728.55 | 226.00 | 1.88 | MWD | None |
| 290 | 4343.75 | 49.03 | 223.86 | 14.91 | 1286.32 | 3740.23 | -2598.49 | -2689.72 | 3739.88 | 225.99 | 2.05 | MWD | None |
| 291 | 4375.03 | 46.72 | 224.47 | 31.28 | 1307.30 | 3763.42 | -2615.13 | -2705.88 | 3763.07 | 225.98 | 2.29 | MWD | None |
| 292 | 4409.02 | 44.64 | 229.95 | 33.99 | 1331.06 | 3787.71 | -2631.65 | -2723.69 | 3787.36 | 225.98 | 3.98 | MWD | None |
| 293 | 4439.57 | 42.43 | 234.55 | 30.55 | 1353.21 | 3808.60 | -2644.54 | -2740.31 | 3808.27 | 226.02 | 3.85 | MWD | None |
| 294 | 4467.26 | 40.39 | 234.69 | 27.69 | 1373.97 | 3826.69 | -2655.15 | -2755.24 | 3826.38 | 226.06 | 2.25 | MWD | None |
| 295 | 4496.80 | 38.49 | 228.76 | 29.54 | 1396.79 | 3845.33 | -2666.74 | -2769.97 | 3845.03 | 226.09 | 4.35 | MWD | None |
| 296 | 4525.38 | 35.88 | 222.81 | 28.58 | 1419.57 | 3862.59 | -2678.76 | -2782.36 | 3862.29 | 226.09 | 4.74 | MWD | None |
| 297 | 4554.24 | 31.86 | 216.90 | 28.86 | 1443.53 | 3878.57 | -2691.06 | -2792.69 | 3878.26 | 226.06 | 5.48 | MWD | None |
| 298 | 4583.39 | 30.81 | 215.42 | 29.15 | 1468.43 | 3893.53 | -2703.30 | -2801.63 | 3893.19 | 226.02 | 1.36 | MWD | None |
| 299 | 4612.48 | 28.25 | 214.95 | 29.09 | 1493.74 | 3907.62 | -2715.01 | -2809.90 | 3907.28 | 225.98 | 2.69 | MWD | None |
| 300 | 4641.67 | 27.28 | 217.64 | 29.19 | 1519.57 | 3921.04 | -2725.97 | -2817.94 | 3920.68 | 225.95 | 1.65 | MWD | None |
| 301 | 4670.31 | 28.09 | 221.37 | 28.64 | 1544.93 | 3934.26 | -2736.23 | -2826.40 | 3933.89 | 225.93 | 2.04 | MWD | None |
| 302 | 4699.87 | 29.95 | 224.25 | 29.56 | 1570.78 | 3948.58 | -2746.74 | -2836.15 | 3948.21 | 225.92 | 2.40 | MWD | None |
| 303 | 4728.68 | 28.23 | 221.81 | 28.81 | 1595.96 | 3962.57 | -2756.97 | -2845.72 | 3962.20 | 225.91 | 2.21 | MWD | None |
| 304 | 4758.13 | 28.58 | 221.72 | 29.45 | 1621.86 | 3976.54 | -2767.42 | -2855.05 | 3976.17 | 225.89 | 0.36 | MWD | None |
| 305 | 4786.95 | 28.82 | 221.74 | 28.82 | 1647.14 | 3990.35 | -2777.75 | -2864.26 | 3989.97 | 225.88 | 0.25 | MWD | None |
| 306 | 4816.25 | 29.13 | 222.14 | 29.30 | 1672.77 | 4004.52 | -2788.31 | -2873.75 | 4004.13 | 225.86 | 0.38 | MWD | None |
| 307 | 4845.55 | 28.83 | 222.33 | 29.30 | 1698.40 | 4018.69 | -2798.82 | -2883.29 | 4018.30 | 225.85 | 0.33 | MWD | None |
| 308 | 4874.56 | 28.62 | 222.20 | 29.01 | 1723.84 | 4032.60 | -2809.14 | -2892.66 | 4032.21 | 225.84 | 0.23 | MWD | None |
| 309 | 4903.59 | 28.33 | 221.77 | 29.03 | 1749.36 | 4046.42 | -2819.42 | -2901.92 | 4046.02 | 225.83 | 0.37 | MWD | None |
| 310 | 4932.77 | 28.30 | 221.56 | 29.18 | 1775.05 | 4060.22 | -2829.76 | -2911.12 | 4059.83 | 225.81 | 0.11 | MWD | None |
| 311 | 4961.88 | 28.49 | 221.34 | 29.11 | 1800.66 | 4074.03 | -2840.14 | -2920.29 | 4073.63 | 225.80 | 0.23 | MWD | None |
| 312 | 4991.15 | 27.69 | 220.96 | 29.27 | 1826.48 | 4087.77 | -2850.52 | -2929.36 | 4087.37 | 225.78 | 0.85 | MWD | None |
| 313 | 5019.77 | 27.96 | 221.01 | 28.62 | 1851.79 | 4101.08 | -2860.60 | -2938.12 | 4100.68 | 225.77 | 0.29 | MWD | None |
| 314 | 5049.02 | 27.60 | 221.26 | 29.25 | 1877.67 | 4114.67 | -2870.87 | -2947.09 | 4114.27 | 225.75 | 0.39 | MWD | None |
| 315 | 5078.44 | 27.22 | 221.04 | 29.42 | 1903.79 | 4128.17 | -2881.07 | -2956.00 | 4127.77 | 225.74 | 0.41 | MWD | None |
| 316 | 5107.87 | 26.88 | 221.08 | 29.43 | 1930.00 | 4141.52 | -2891.16 | -2964.79 | 4141.11 | 225.72 | 0.35 | MWD | None |
| 317 | 5136.34 | 26.35 | 221.16 | 28.47 | 1955.45 | 4154.23 | -2900.77 | -2973.18 | 4153.82 | 225.71 | 0.57 | MWD | None |
| 318 | 5165.69 | 26.07 | 220.89 | 29.35 | 1981.78 | 4167.15 | -2910.55 | -2981.69 | 4166.74 | 225.69 | 0.32 | MWD | None |
| 319 | 5179.82 | 25.80 | 220.52 | 14.13 | 1994.49 | 4173.31 | -2915.23 | -2985.72 | 4172.90 | 225.68 | 0.68 | MWD | None |
| 320 | 5204.00 | 25.60 | 220.25 | 24.18 | 2016.28 | 4183.75 | -2923.22 | -2992.51 | 4183.34 | 225.67 | 0.29 | Proj. | to TD |

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Company:
ESSO Australia Pty Ltd

Well:
SNA A11A–ST



| | | |
|-----------------------------------------------------------------------|----------|-------------------|
| Field: | Snapper | |
| Rig: | ISDL 175 | 12.25 In. Section |
| State: | Victoria | |
| VISION* Resistivity 1:200 True Vertical Depth Recorded Mode Log | | |