

ESSO Australia Pty Ltd

9.875 in. Section

CBA A33

Halibut

ISDL 175

State:

Victoria

Rig:		ISDL 175	
Field:		Halibut	
Location:		Bass Strait	
Well:		CBA A33	
Company:		ESSO Australia Pty Ltd	
<div style="text-align: center;"> VISION Service 1:200 True Vertical Depth Recorded Mode Log </div>			
Location			
Total depth:	2579.0 m	K.B. Top Drive	
Spud date:	15-June-2009	G.L. -79.00 m	
Runs:	2 To 2	D.F. 41.00 m	
Permanent datum:		Elev.: 0.00 m	
Log measured from:	Drill Floor	41.00 m above Perm. datum	
Depth reference:	Driller's Depth		
Service Order no.	X = E 614234.558 m	Longitude	Latitude
09ASQ0016	Y = N 5743518.761 m	E148° 18' 32.826"	S38° 26' 57.543"

Depth logged: 587.6 m		To 2570.4 m		Mag decl: 13.218 deg.		Other services:	
Date logged: 22-Jun-09		To 24-Jun-09		Mag dip: -68.859 deg.		See Remarks	
Bore hole record				Casing record			
Hole size	from	to	Size	Density	from	to	
9.875 in.	589.6 m	2579.0 m	10.75 in.	40.50 lbm/ft	20.68 m	587.62 m	
Type	Mud record		Borehole deviation record				
	from	to	Min	Max	from	to	
Accolade SBM	589.6 m	2579.0 m	13.73 deg.	16.22 deg.	625.93 m	2558.69 m	
Surface equipment				Software record			
Unit	OLU-KC-0801	IDEAL Wis	ID14_OC_14				
Depth system	PDACLT	SPM	14_1C_03				
		LWD	v8.4 (adv/ISION*)	v6.7 (sonic/ISION*)	v9.3b13 (arcv/ISION*)		
		MWD	9.2c02				

Bit Run Summary

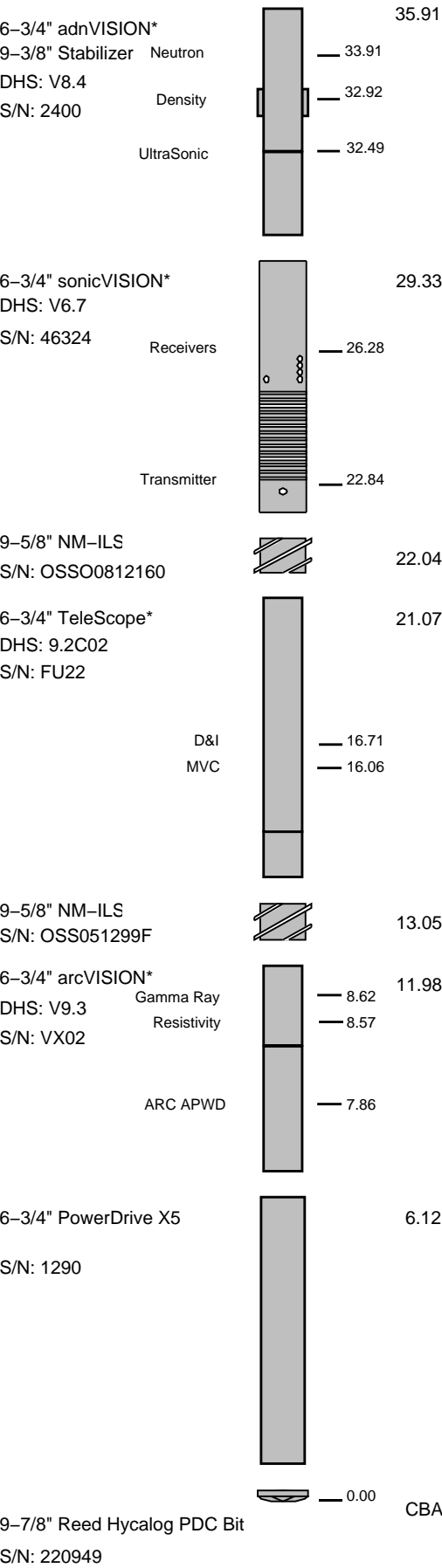
Run number		2								
Bit size	in	9.875								
Bit start depth	m	589.6								
Bit end depth	m	2579.0								
Top interval logged	m	587.6								
Bottom interval logged	m	2570.4								
Begin log: time		11:48:55								
Begin log: date		22-Jun-09								
End log: time		07:37:52								
End log: date		24-Jun-09								
Mud data										
Depth	m	2327.0								
Type		Accolade SBM								
Mud weight	ppg	11.65								
Solids	%	19.9								
Chlorides	mg/L	44,244								
Rm	ohm.m@°C	n.a								
Rmf	ohm.m@°C	n.a								
Rmc	ohm.m@°C	n.a								

Potassium	%	n.a									
Environmental data											
GR											
Mud weight	ppg	11.65									
Bit size	in	9.875									
Resistivity											
Neutron porosity											
Hole Size	in	9.875									
Mud weight	ppg	11.65									
Temperature	°C	91.0									
Mud salinity	ppk	58.628									
Formation salinity		n.a									
Recording rate 1	SEC	6 (arc)									
Recording rate 2	SEC	5 (adn) 10 (sonic)									
Filtering GR		3 pts.									
Filtering density		3 pts.									
Filtering Neutron		3 pts.									
Company representative		R. C. Moore	G. Doty	D. Daniels							
D&M personnel		M. Amarasena	B. Low	W. Chehabi	C. Soper	S. Ahmad					

<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 Neutron porosity is corrected for the effects of borehole size (bit size), temperature, mud salinity and mud hydrogen index (a factor of mud weight, mud temperature and pressure) Neutron porosity is calculated using a limestone matrix density of 2.71 g/cm3 ADN was run with a 9-3/8" clamp on stabilizer Delta-T is borehole compensated POOH upon reaching TD of CBA A33	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION		
RUN2	RUN	RUN
DOWNHOLE EQUIPMENT		

DOWNHOLE EQUIPMENT



Maximum string diameter 9.88 in.
E148° 18' 32.826"

CBA A33

Variable Name	Variable Description	Run Name & Value			
Run Number		2			
General Information					
BHT_RM	Bottom Hole Temperature (RM)	DEGC	91.000		
BSAL_RM	Mud Salinity (RM)	PPK	58.628		
BS_RM	Bit Size (RM)	IN	9.875		
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	11.650		
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	2579.000		
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		
ADN					
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_ORIENTATION	ADN Image Orientation	----	TOH		
ADN_STAB_STR	ADN Stabilizer Type String	----	TOH		
ALPHA_COMPUTE_D	Perform Density Enhanced Vertical Resolution process ?	----	YES		
ALPHA_COMPUTE_N	Perform Neutron Enhanced Vertical Resolution process ?	----	YES		
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	14.540		
DTIK_SEL	ADN: Density Tick Channel Name	----	LSAZ		
DTMUD	Delta-T for Mud	US/F	237.589		
DYN_IMG_COMPUTE	Generate Dynamic Normalized Image?	----	YES		
ECC_CORR_ADN	Perform Eccentering Correction for TNPH?	----	YES		
ENVCOR	Neutron Processing: Environmental Correction?	----	YES		
EVRL	EVR Process averaging number of samples (RM)	----	49		
FCD	Future Casing (Outer) Diameter	IN	TBA		
GCSE	Generalized Caliper Selection	----	BS		
HPS	ADSE-EB (High Pressure Inconel Chassis)?	----	NO		
IBS	Intergal Blade Stabilizer Collar?	----	NO		
IDQT	Image Derived Quality Threshold	----	2.000		
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	G/C3	2.050		
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_RM	ADN Neutron Near Banks Used	----	1-2		
NTIK_SEL	ADN: Neutron Tick Channel Name	----	FR11		
RSD	LWD run start date dd-mmm-yy	----	22-Jun-09		
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		
SOCNL	Standoff Distance of the CNL Tool	----	1.000		
SSIZ_ADN	ADN Stabilizer Size	IN	9.331		
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	----	8.400		
WSDI	Window Size of Dynamic Normalization Image	M	15.240		
ARC					
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	8.950		
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.936		

A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	6.014	
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	5.566	
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.543	
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	3.912	
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	3.936	
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.116	
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	4.099	
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB		
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	
ADHS	ARC Down Hole Software Version	----	v9.3b13	
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	
APICG	ARC5 Gamma Ray Gain Factor	----	1.046	
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	--	SLB #2, RIG #4	
ATSN	ARC Tool Serial Number	----	VX02	
AZMF	Formation DIP Azimuth	DEG	0.000	
BH_COMPUTE	Borehole Inversion Computation Option	----		YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.046	
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	----	YES	
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	0.090	
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	1.267	
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-0.053	
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	-1.300	
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	-0.001	
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	1.279	
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-0.105	
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	-1.349	
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	0.002	
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	1.278	
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	
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	6.750	
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_%	

Schlumberger Drilling & Measurements

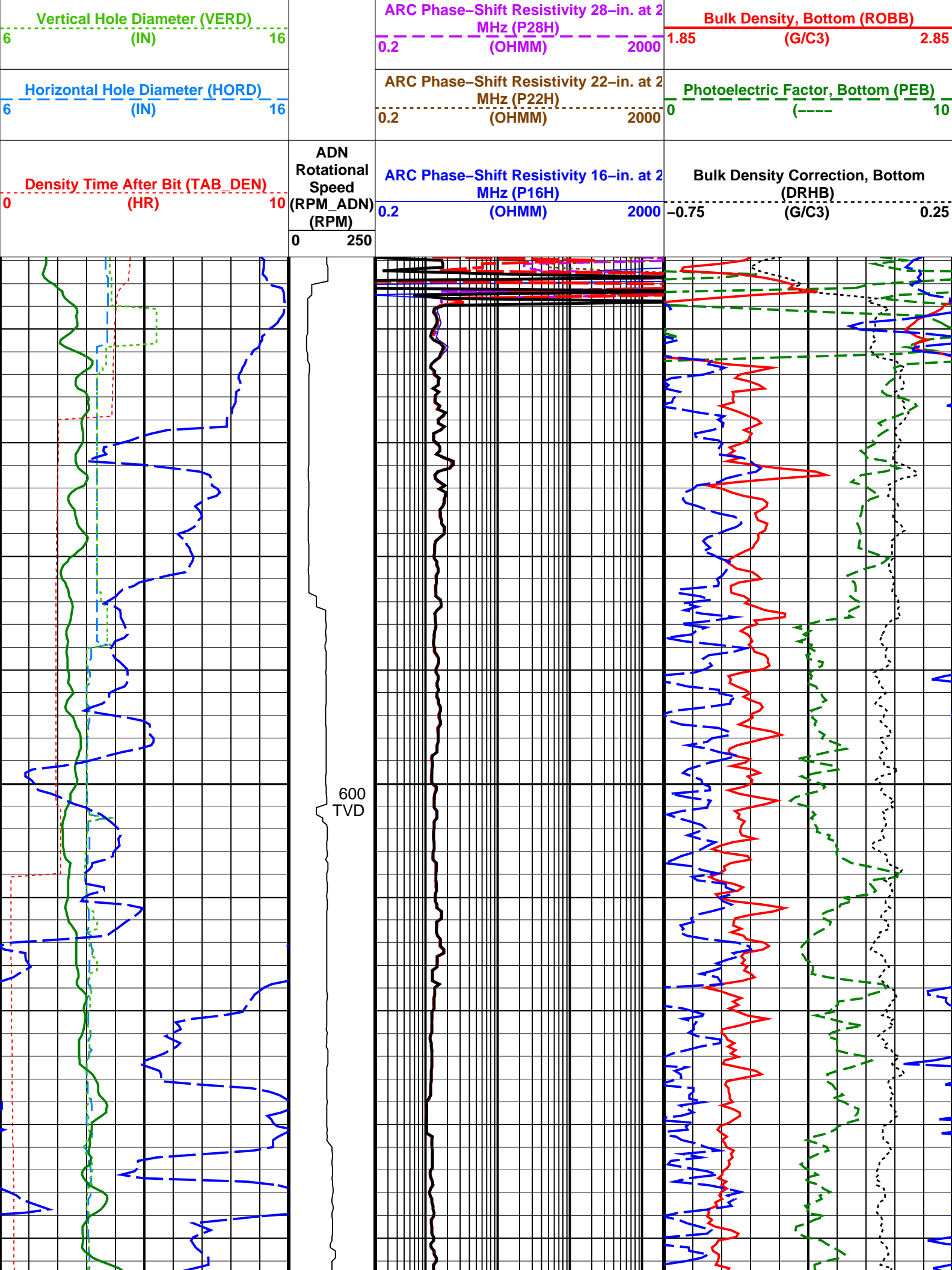
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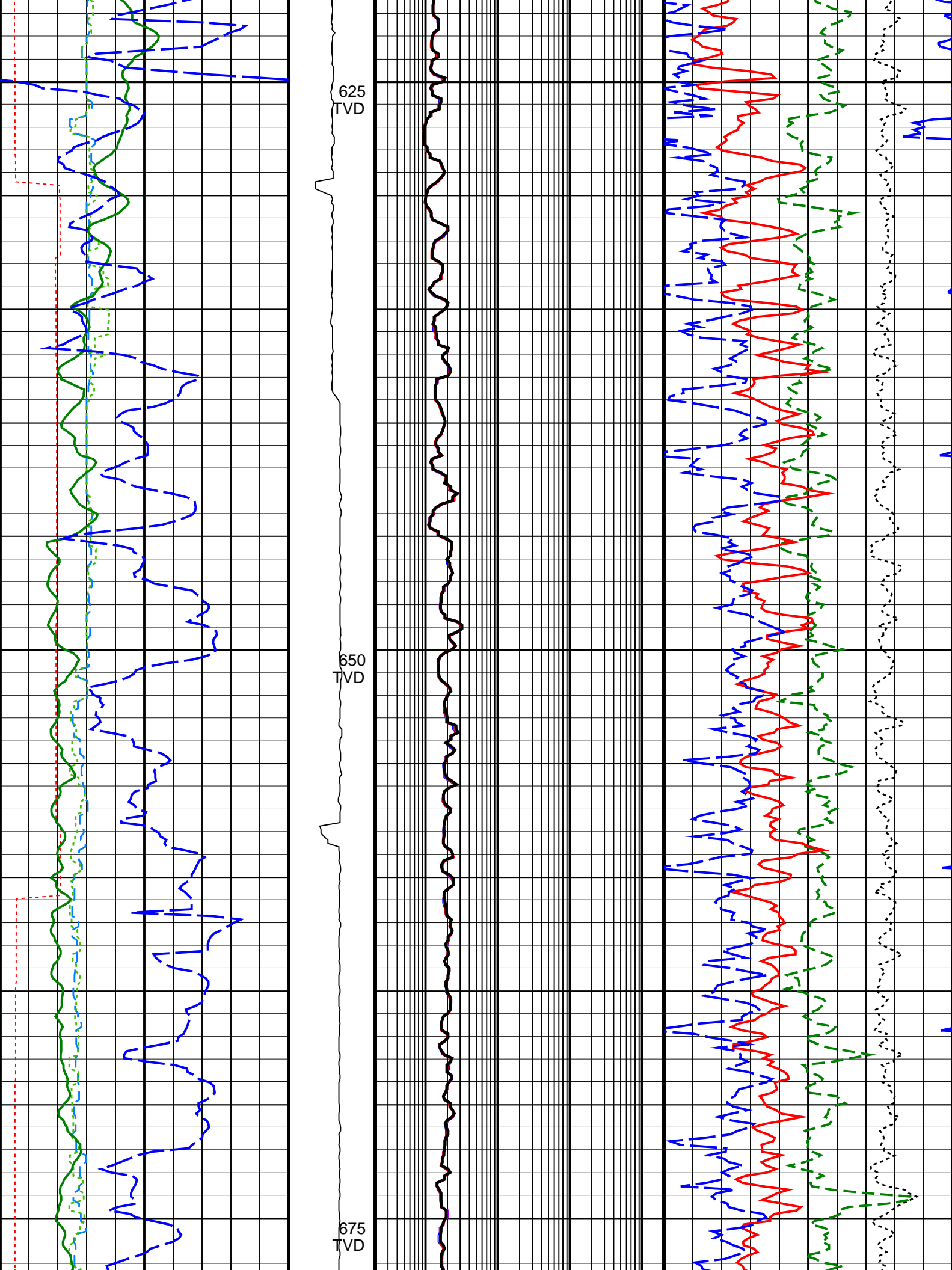
True Vertical Depth Log

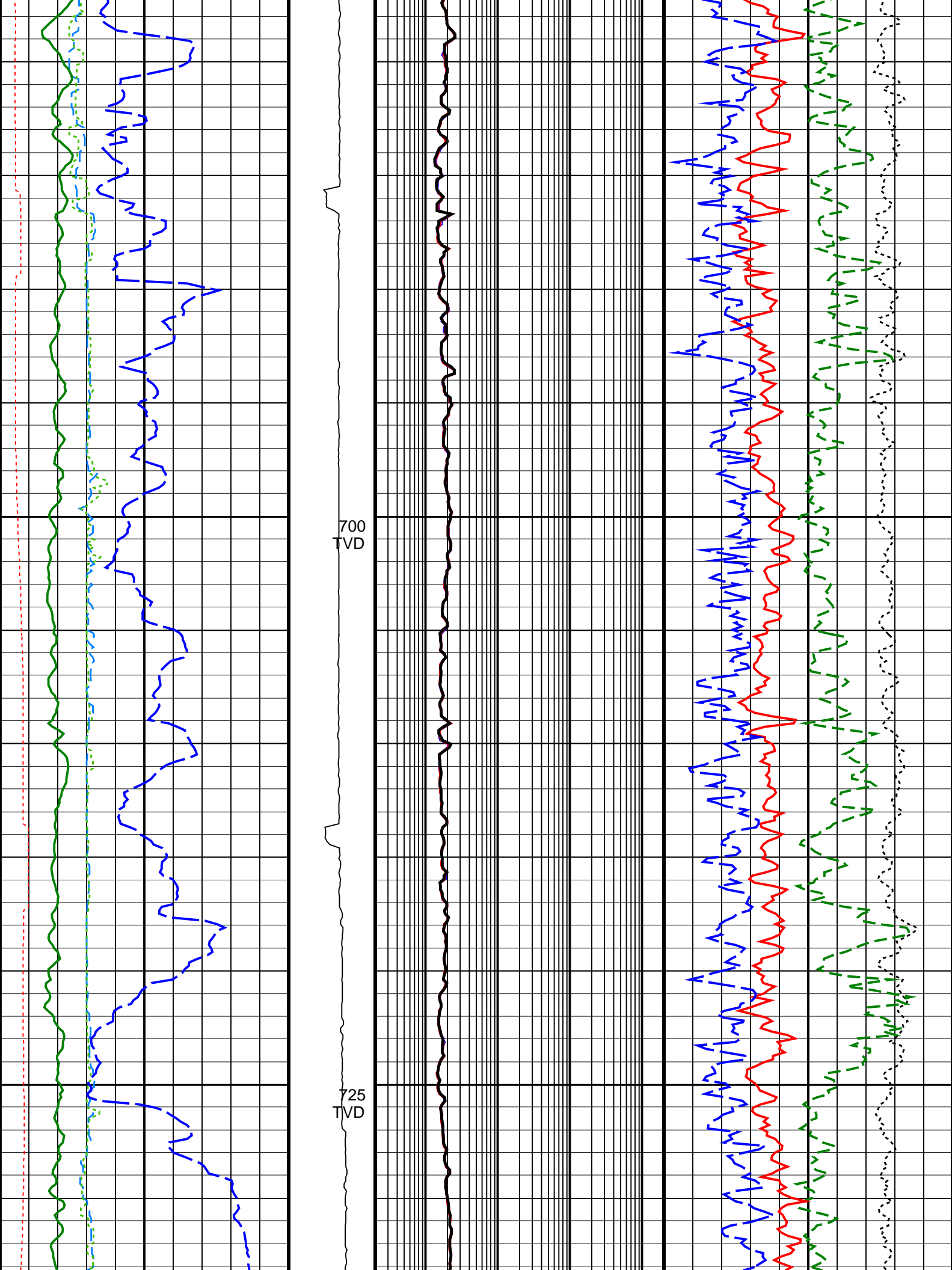
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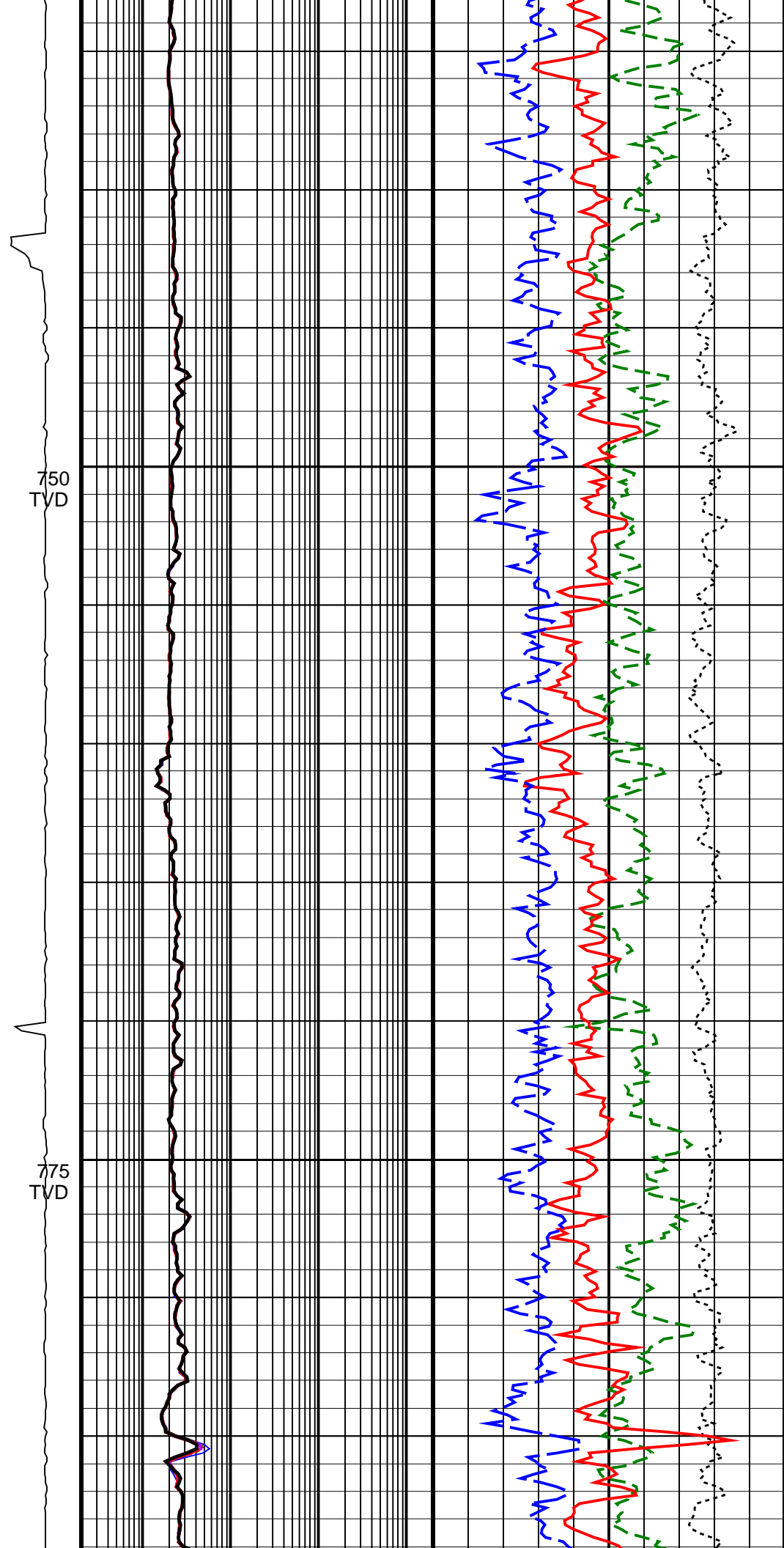
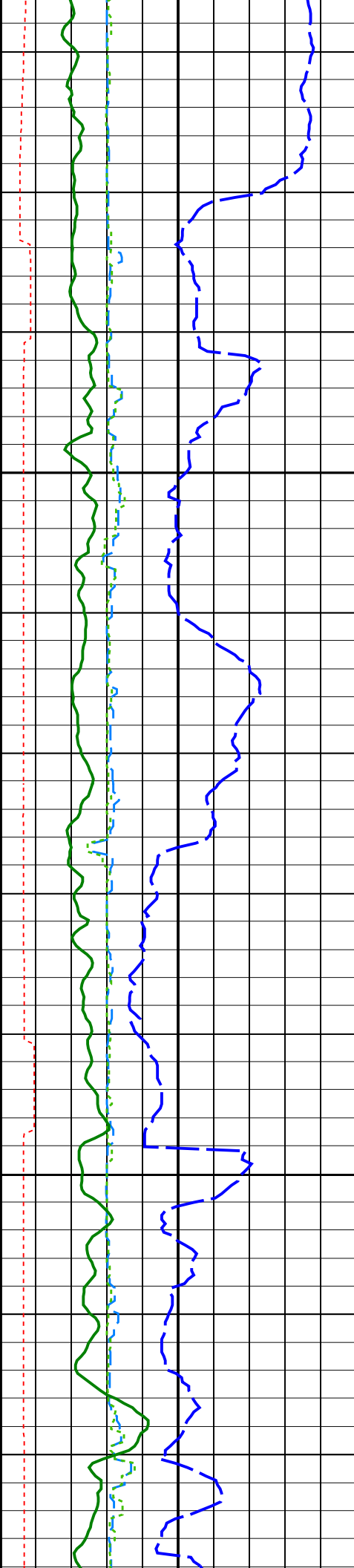
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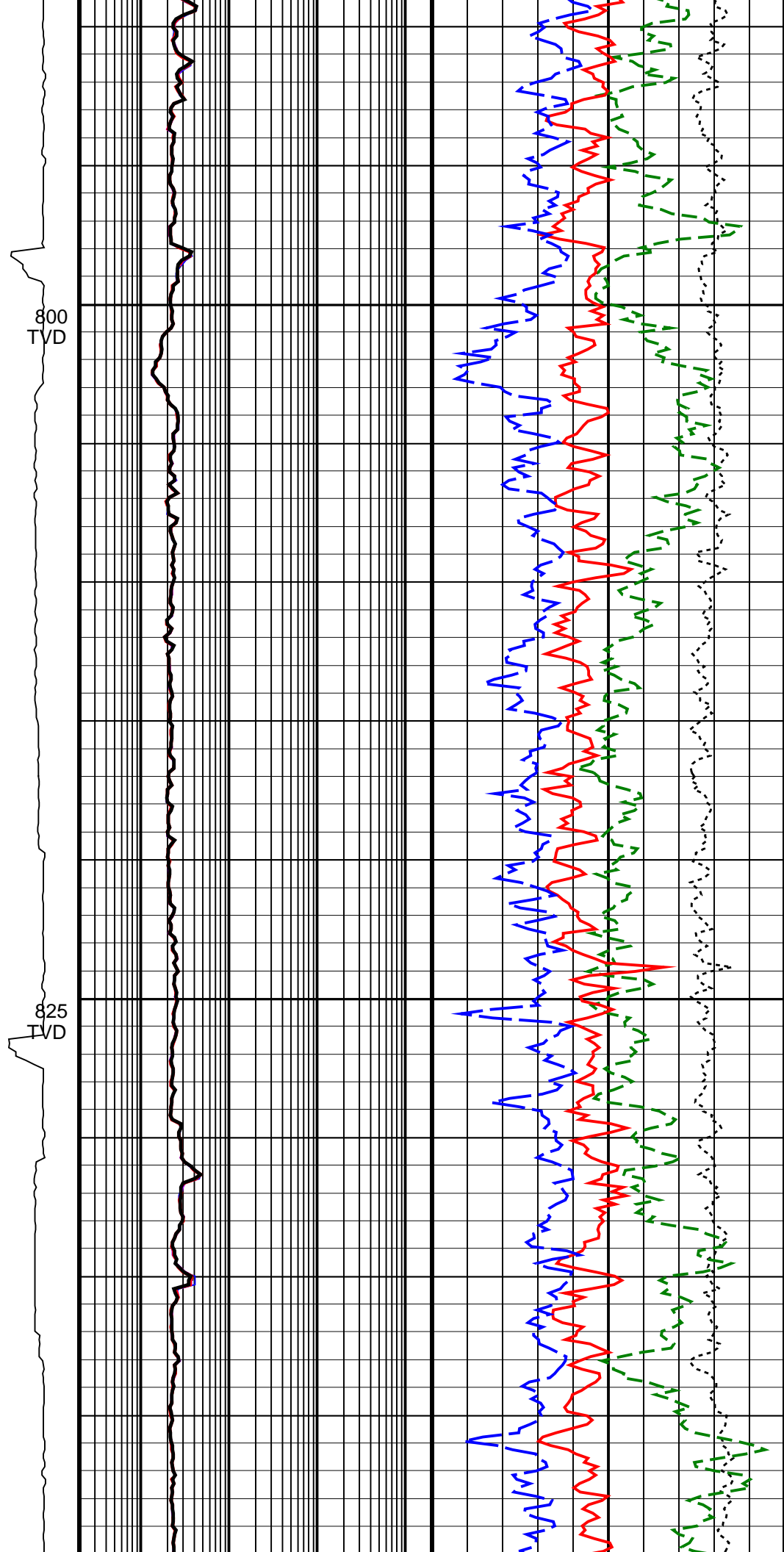
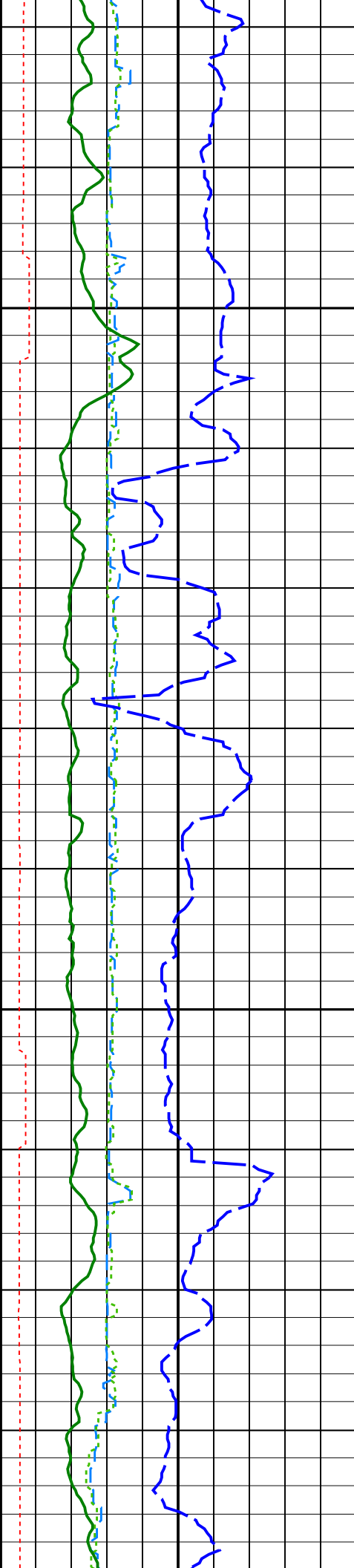
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200	(M/HR)	0		0.2	(OHMM) 2000
ARC Gamma Ray (GR_ARC)		ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H)		Thermal Neutron Porosity (TNPH)	
0	(GAPI)	200		0.2	(OHMM) 2000
				0.45	(V/V) -0.15

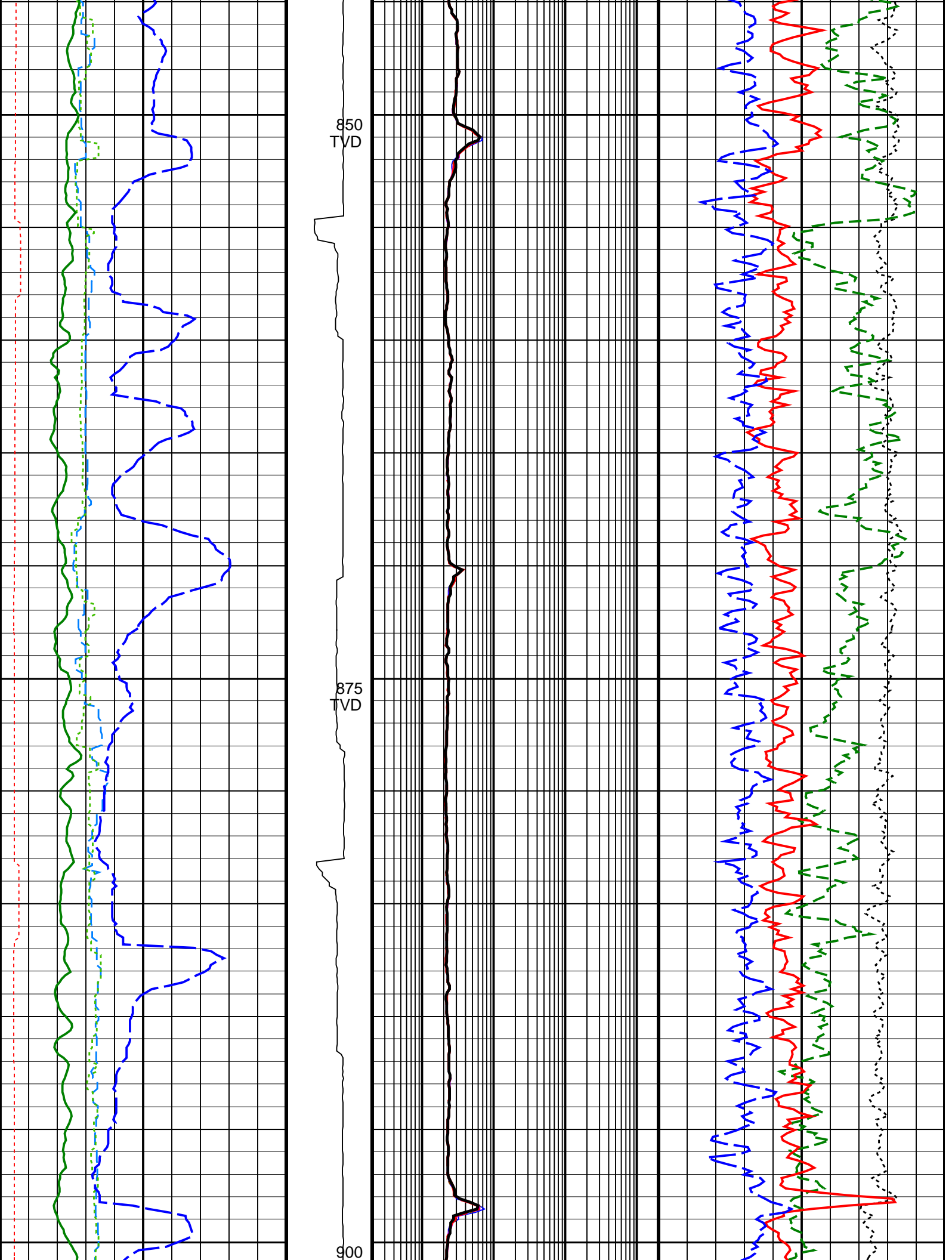


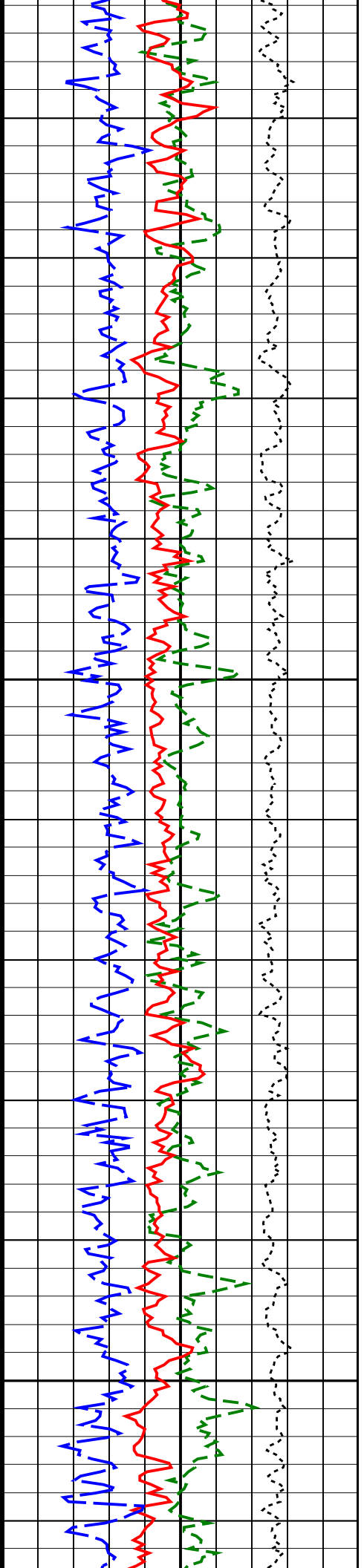
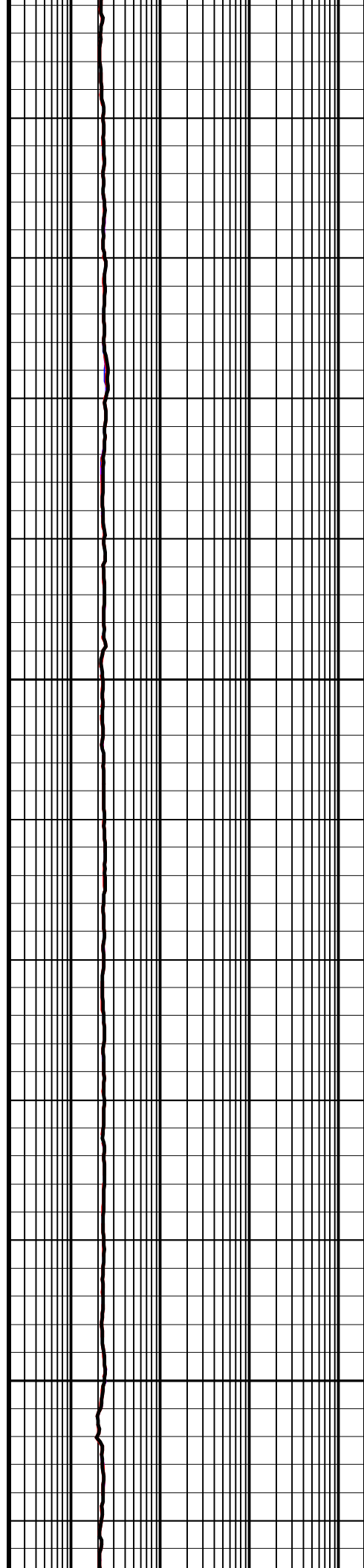
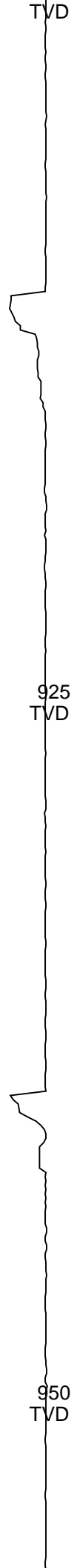
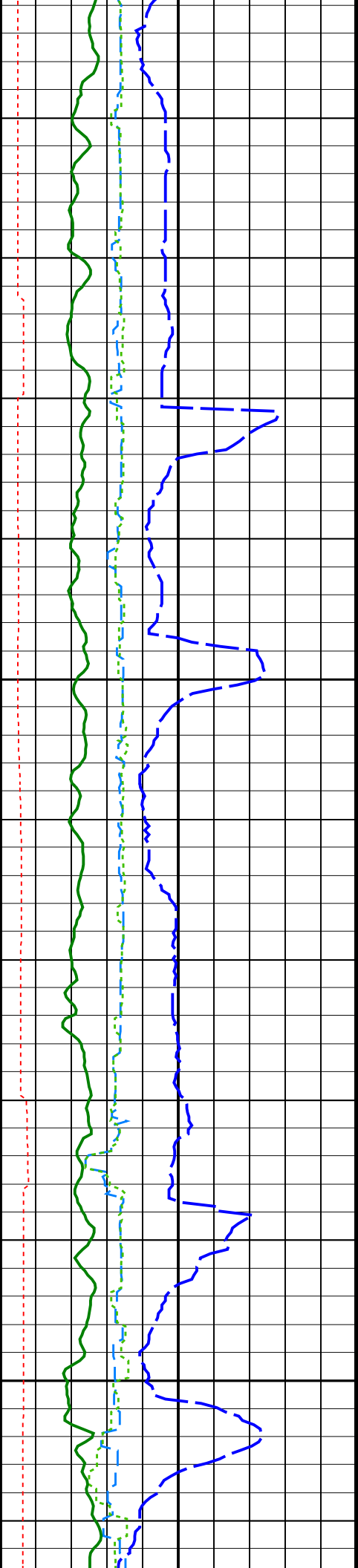


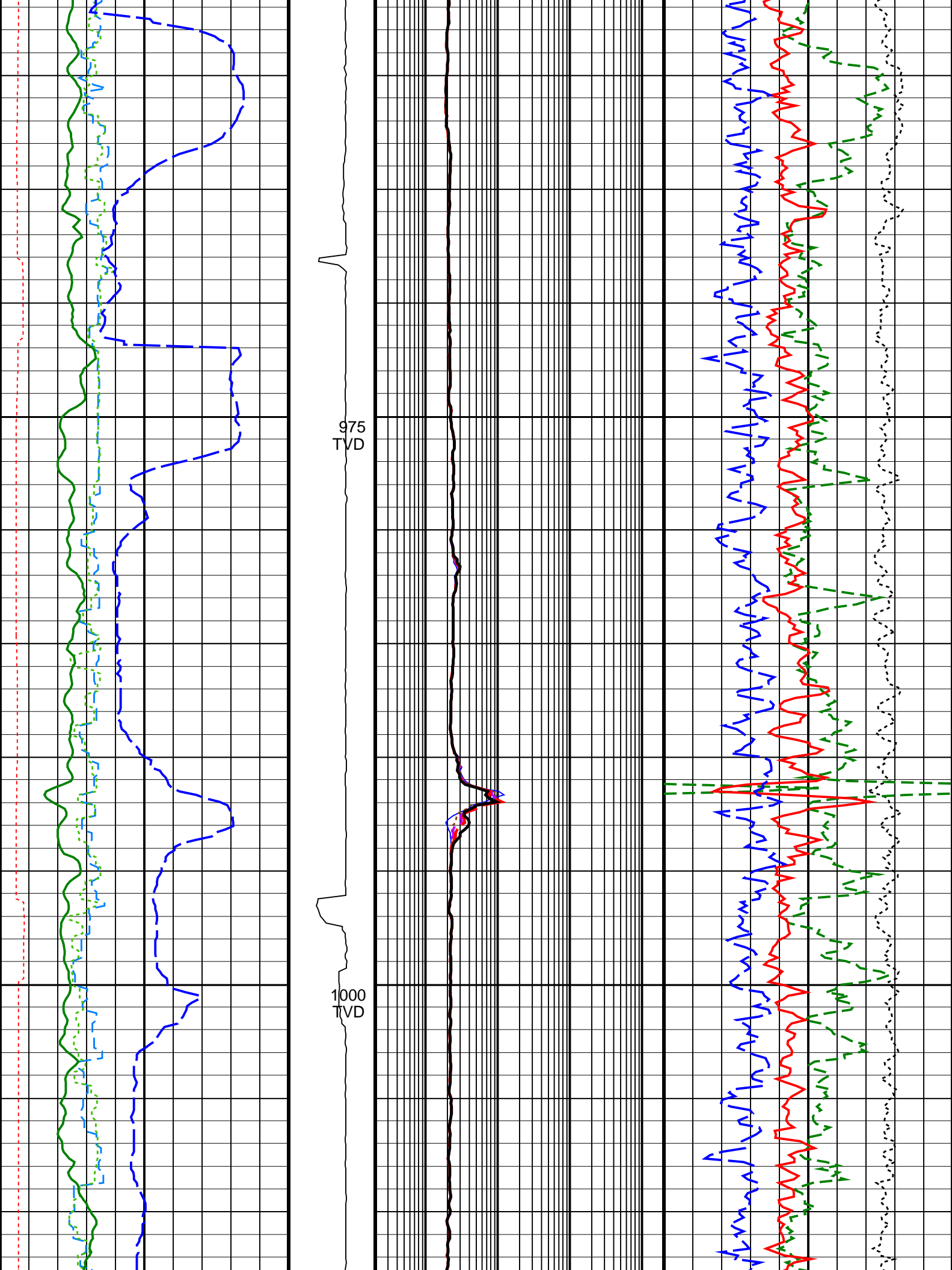


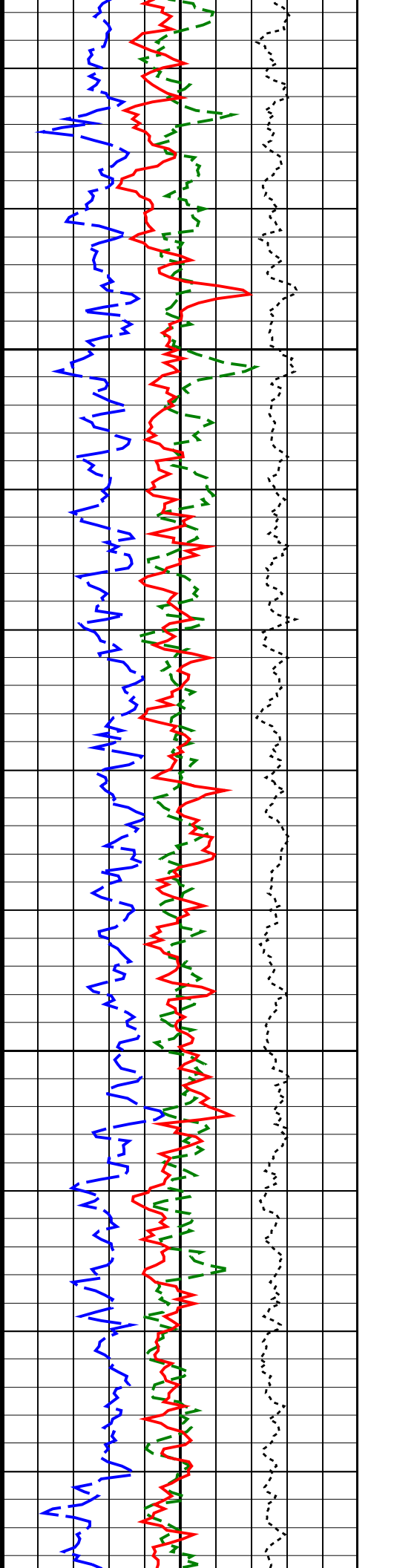
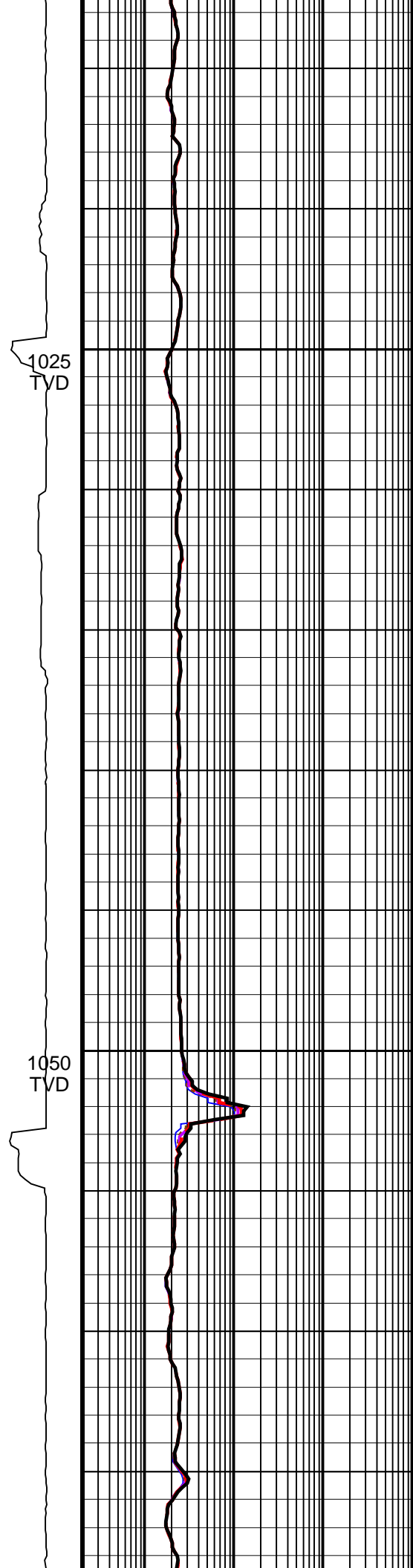
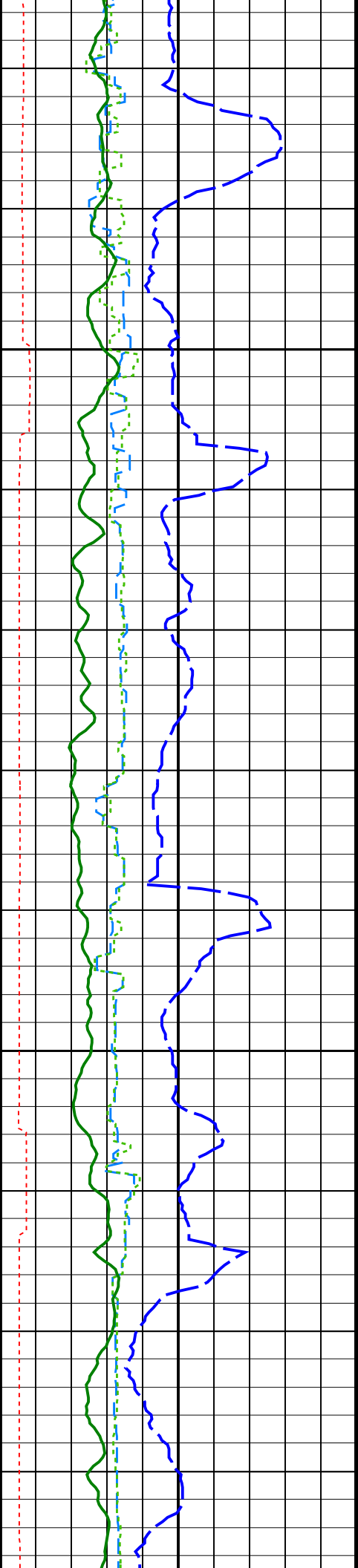


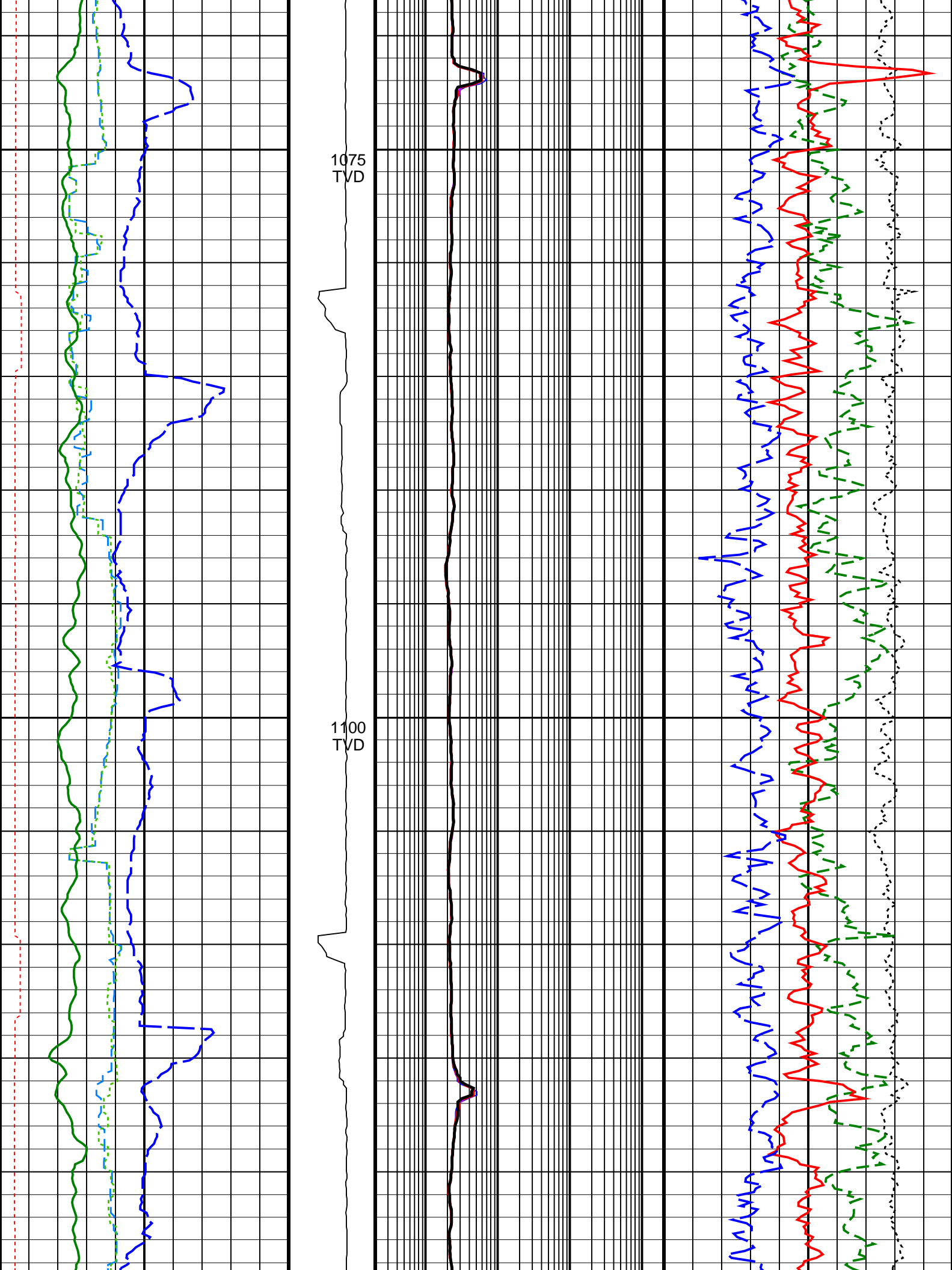


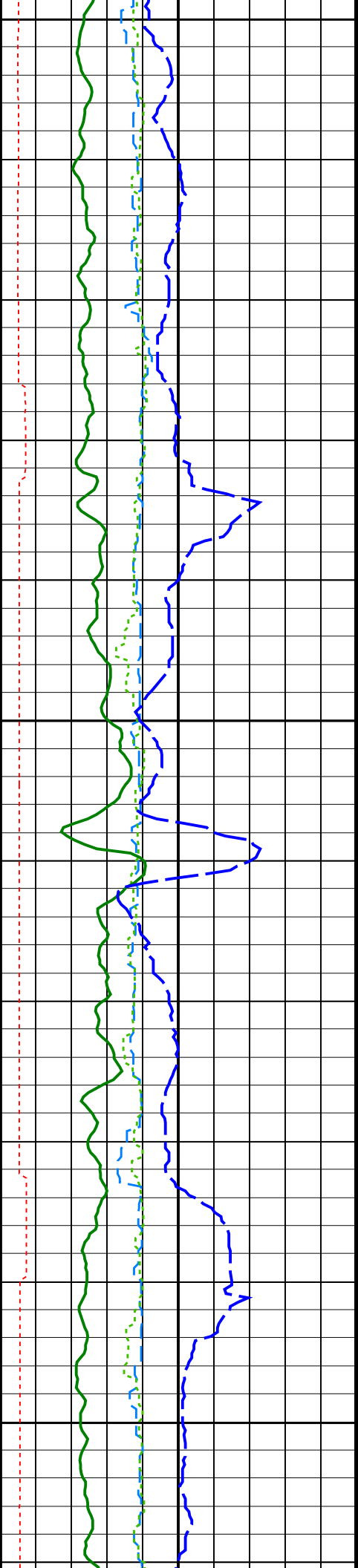








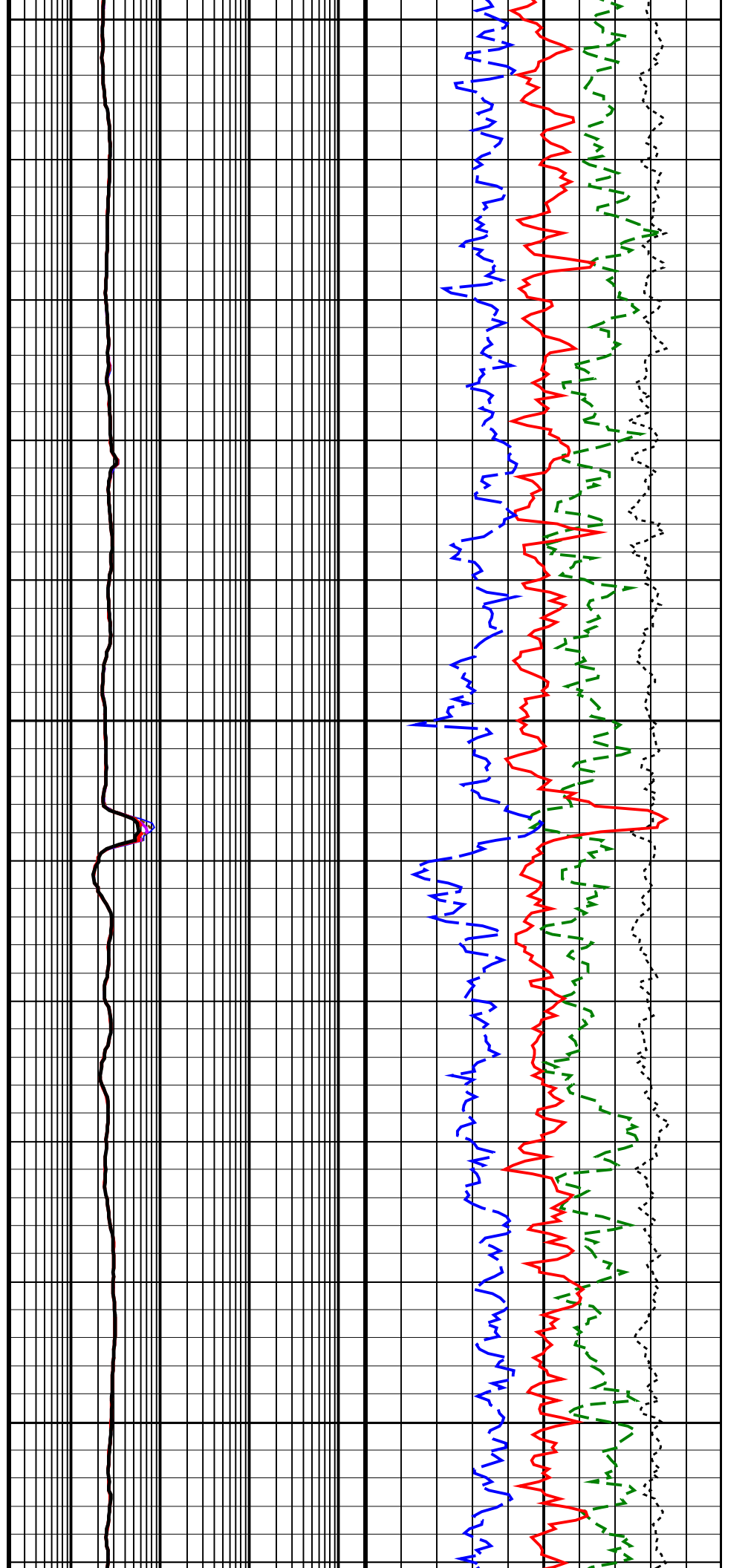


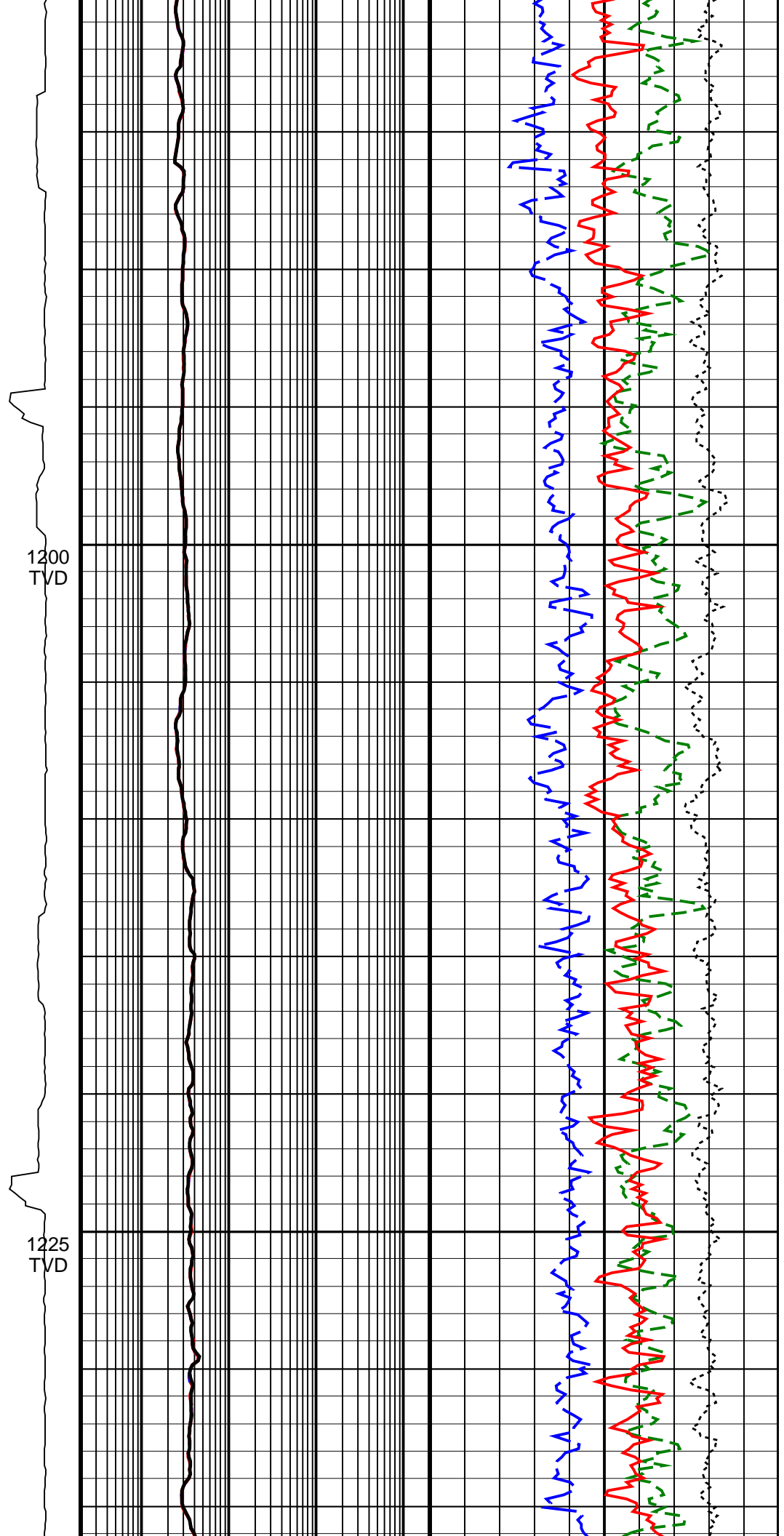
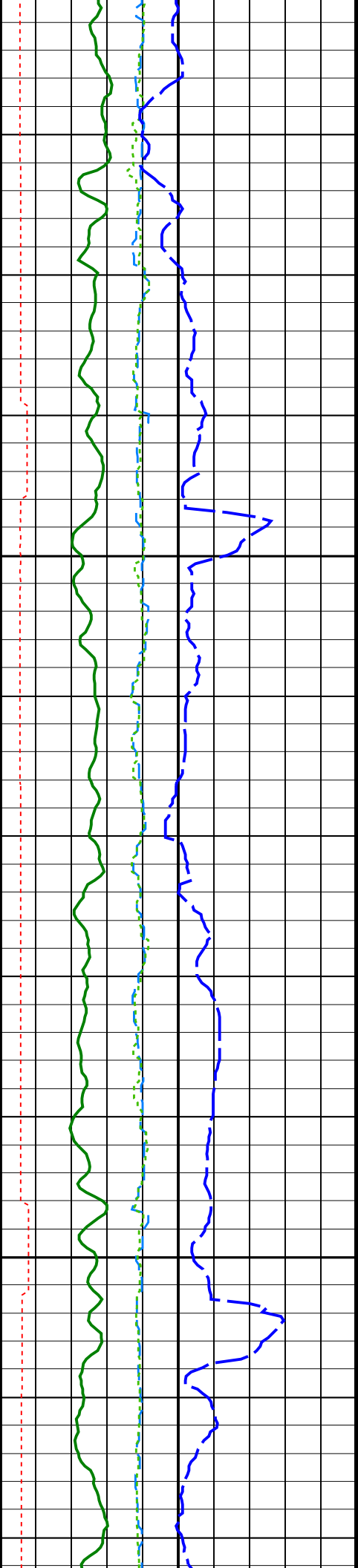


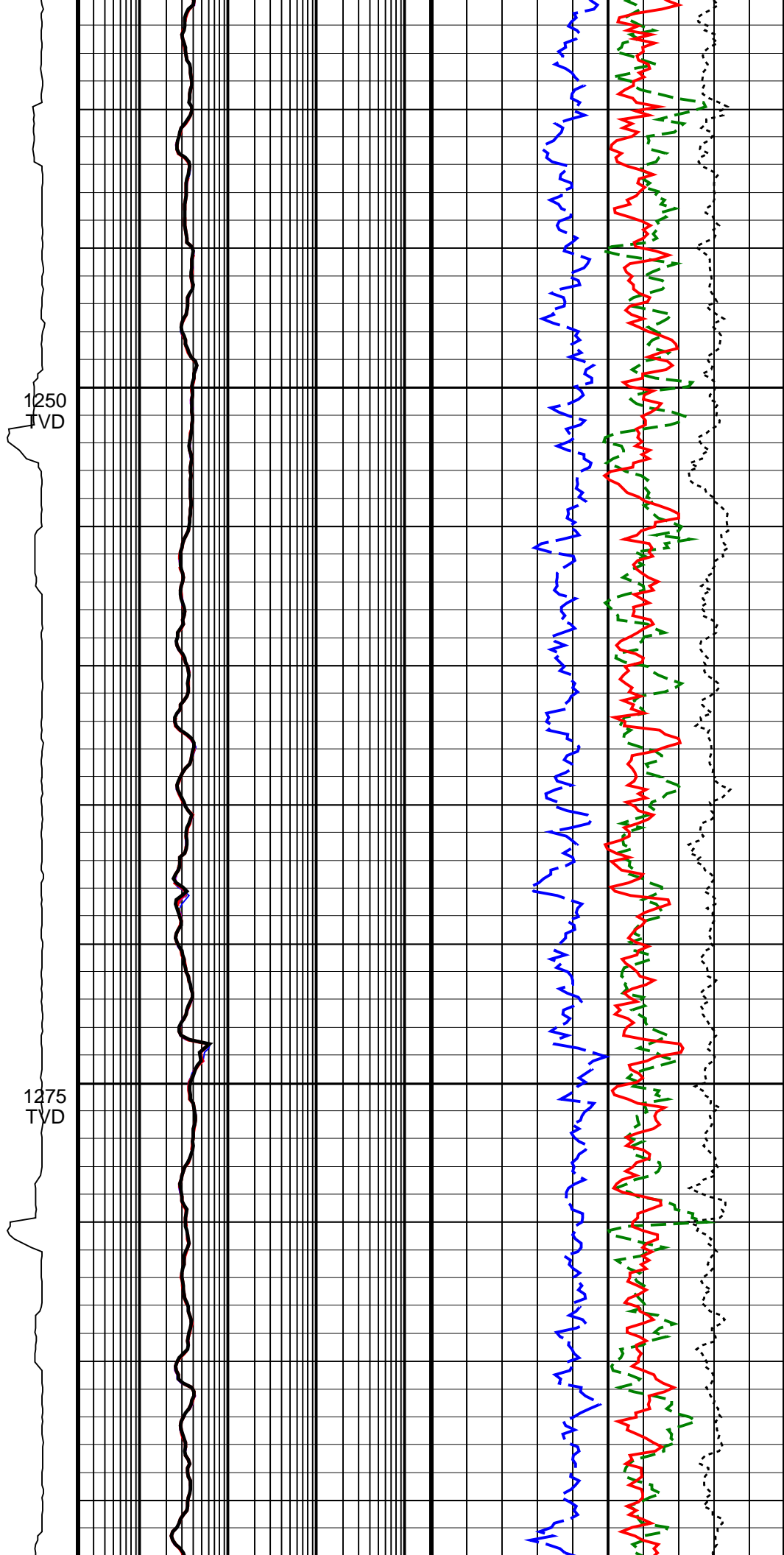
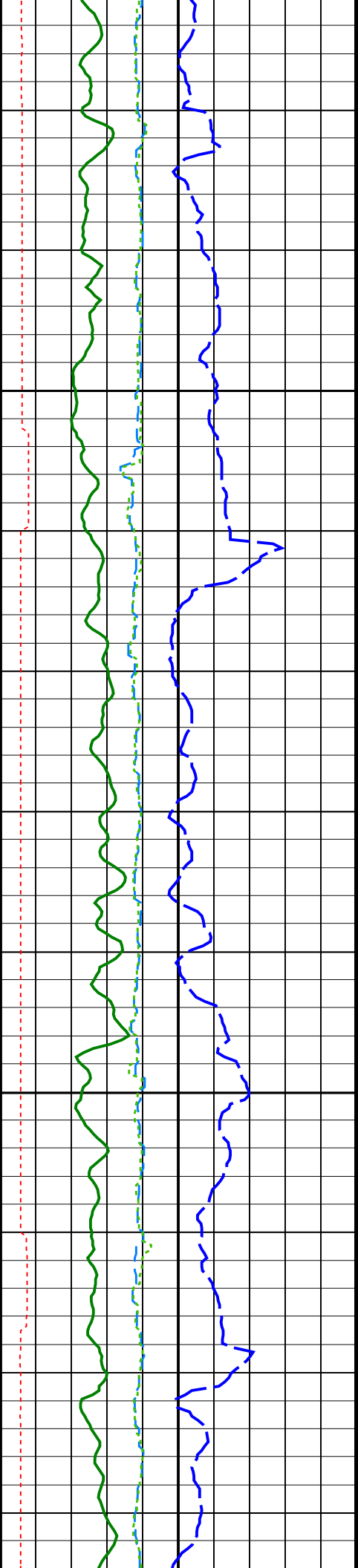
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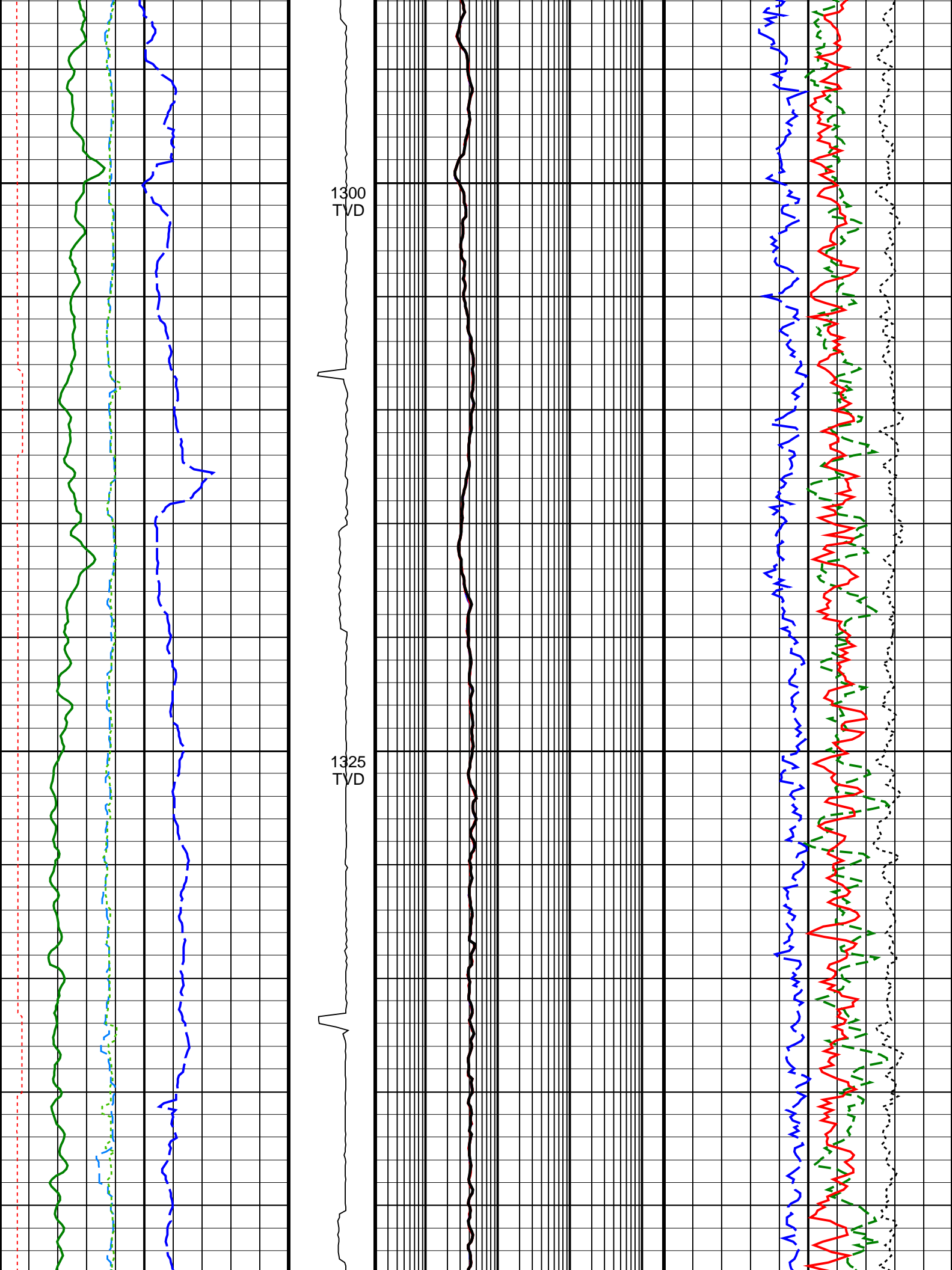
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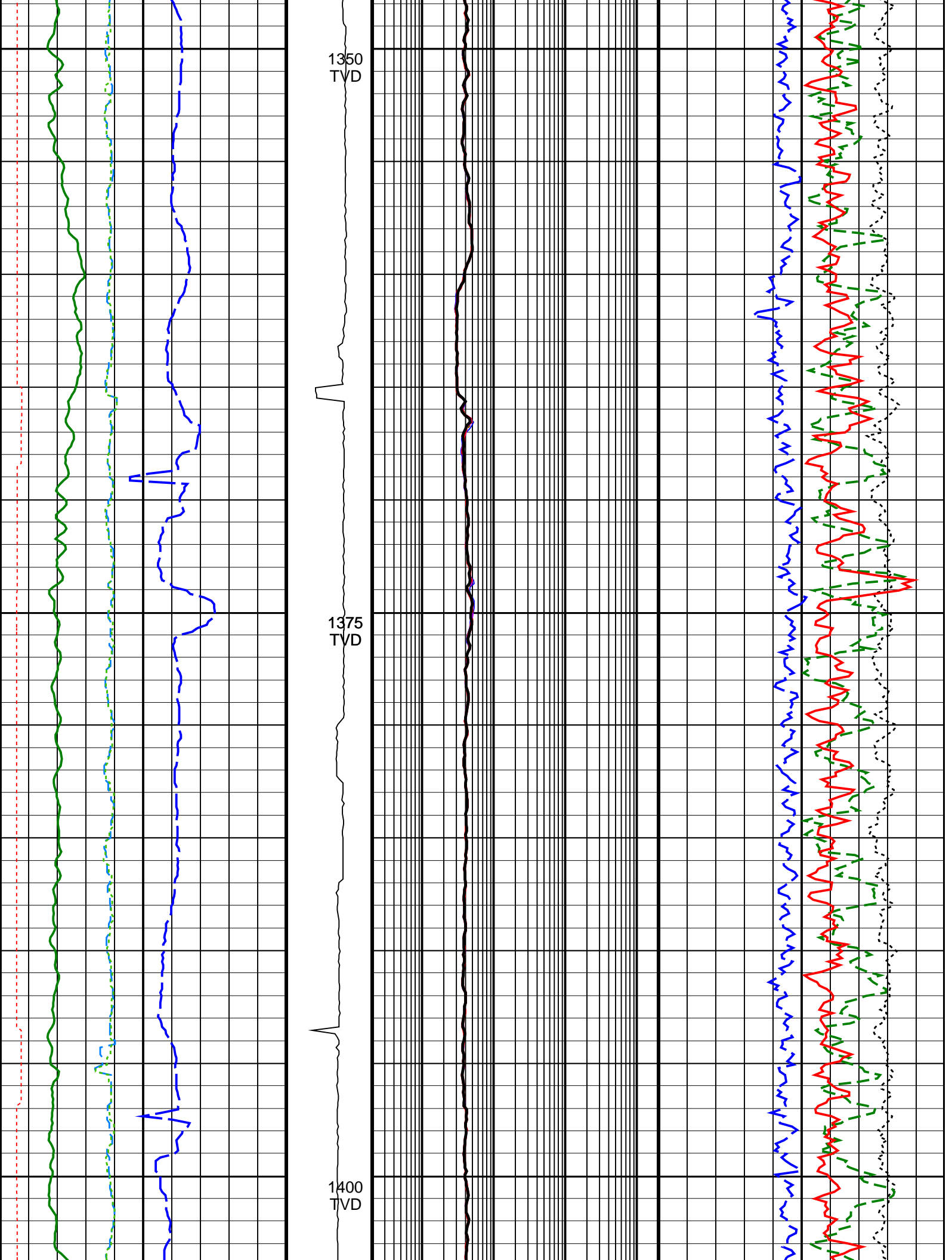
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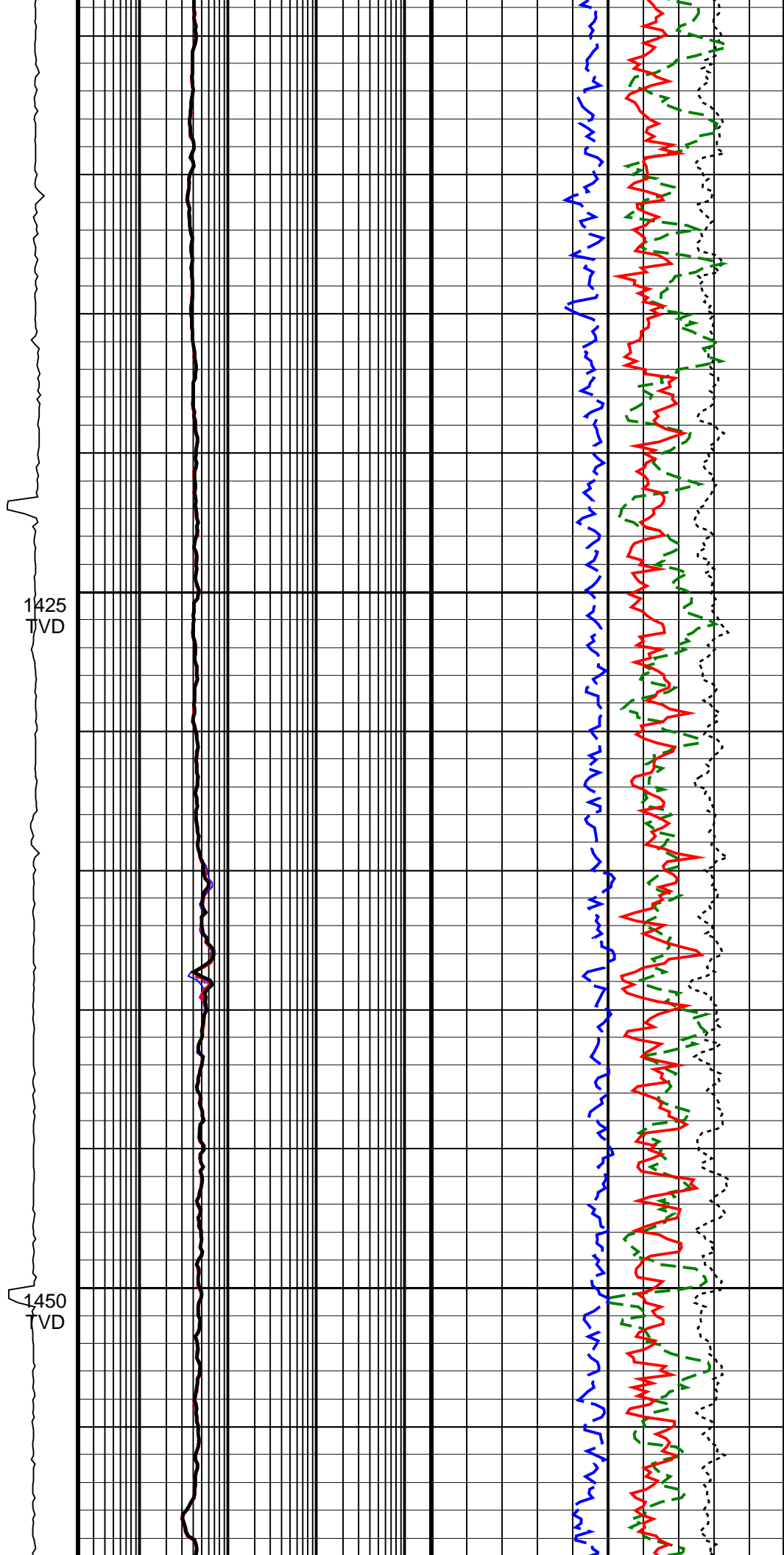
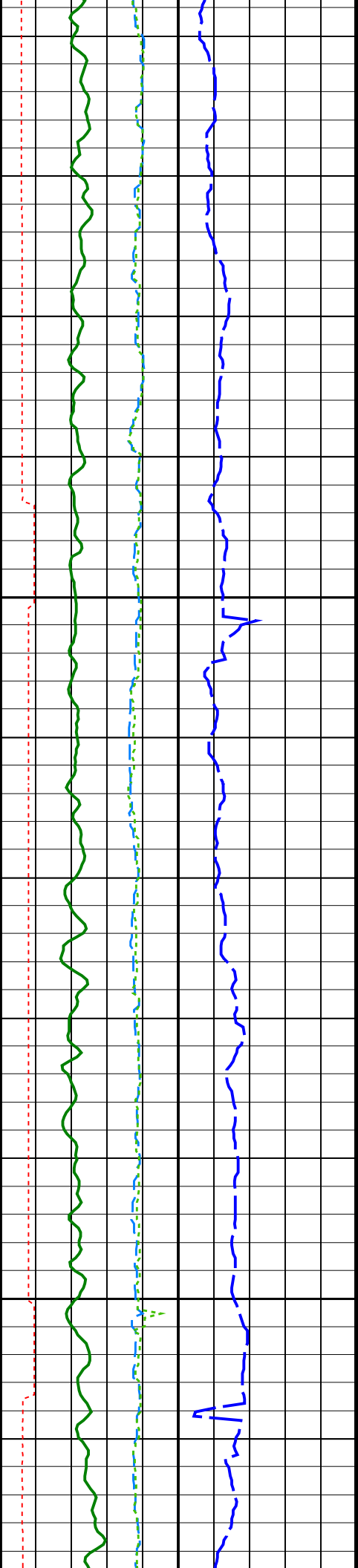


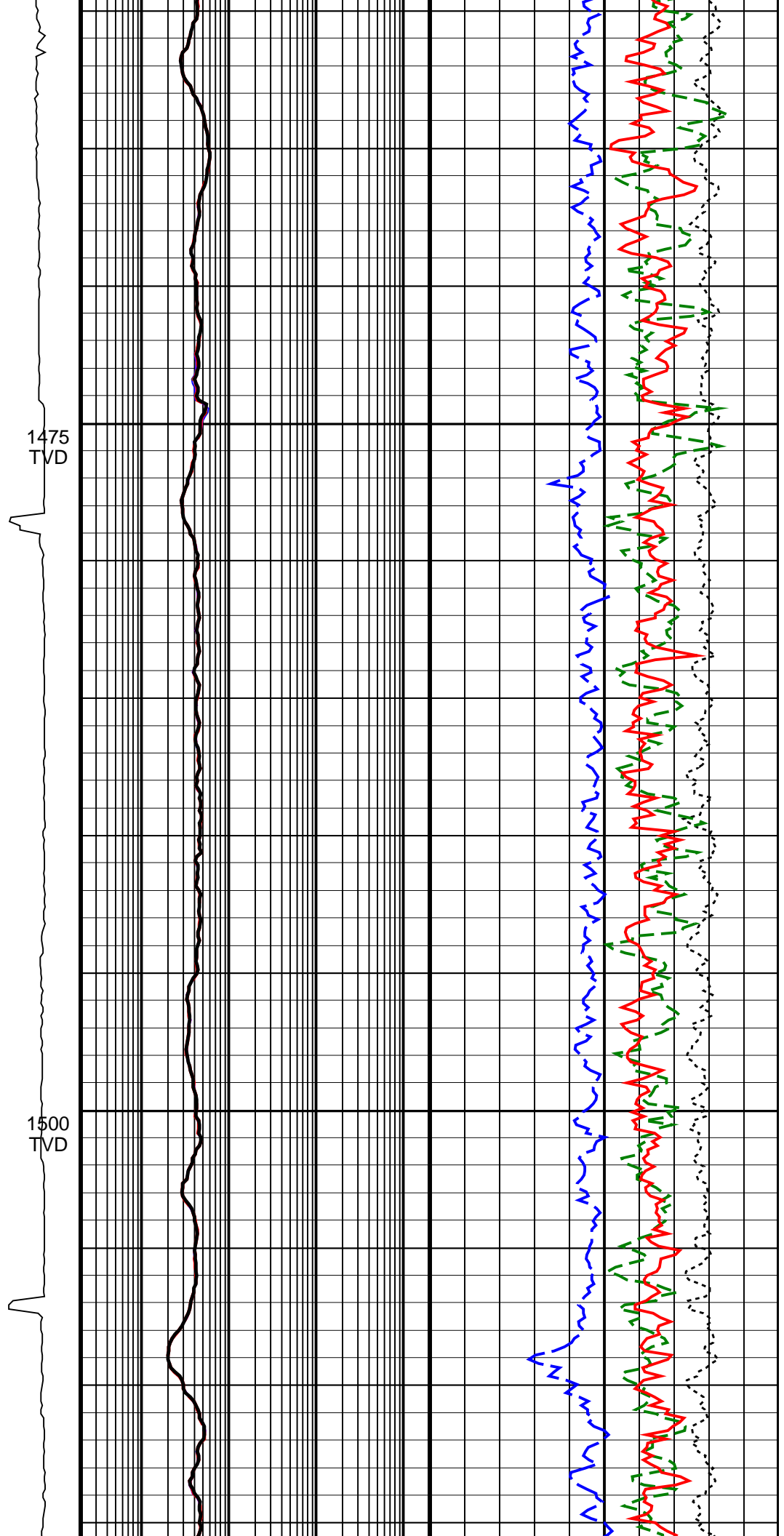
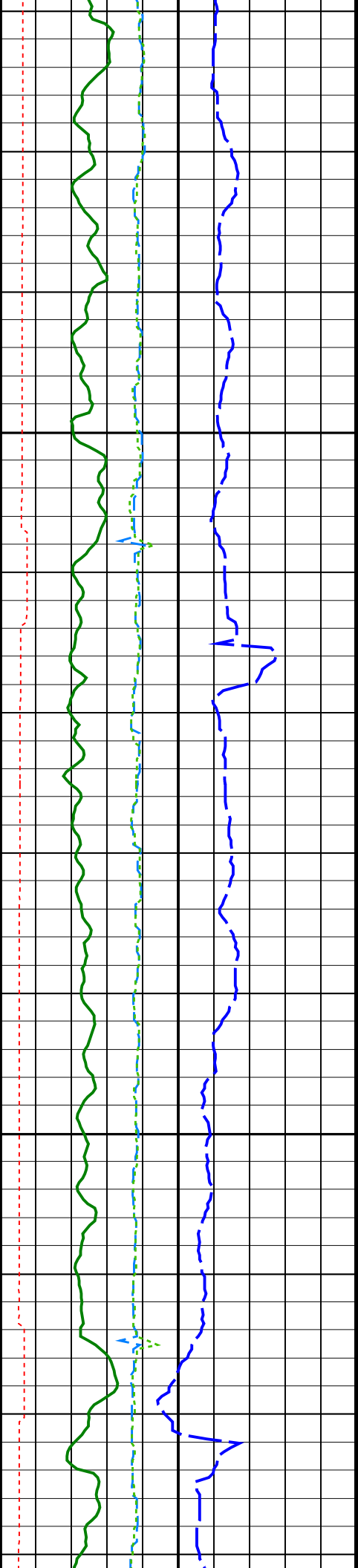


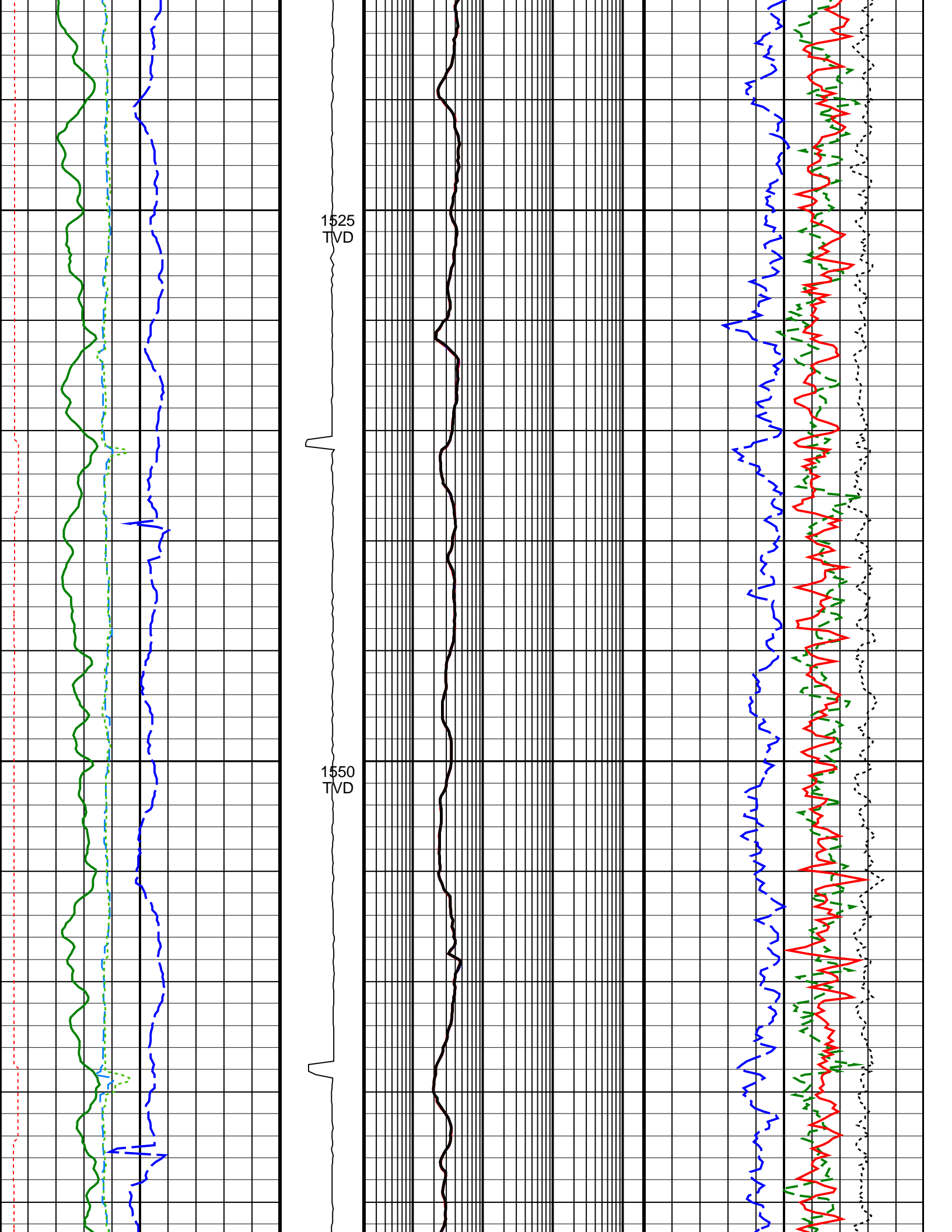


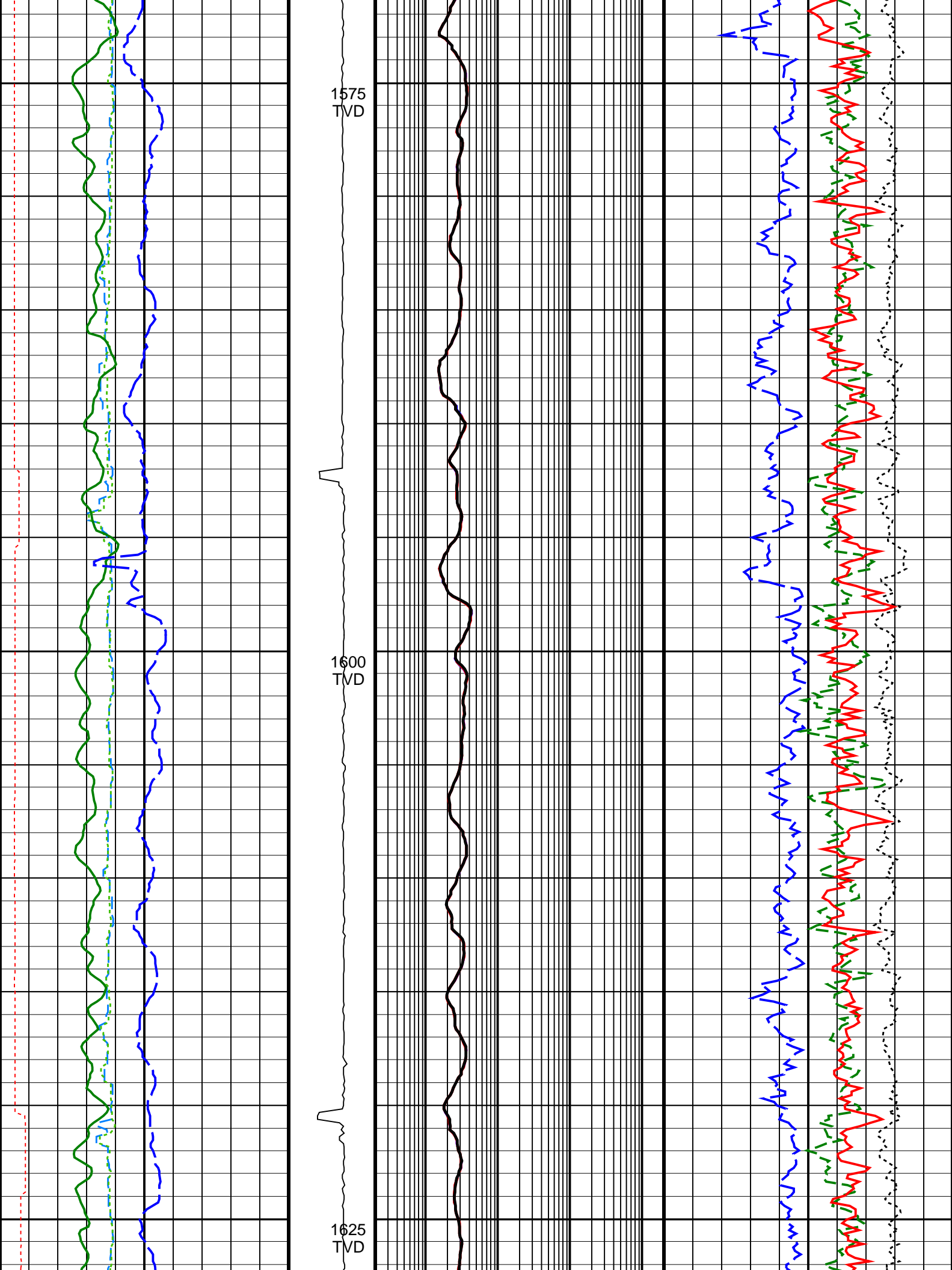


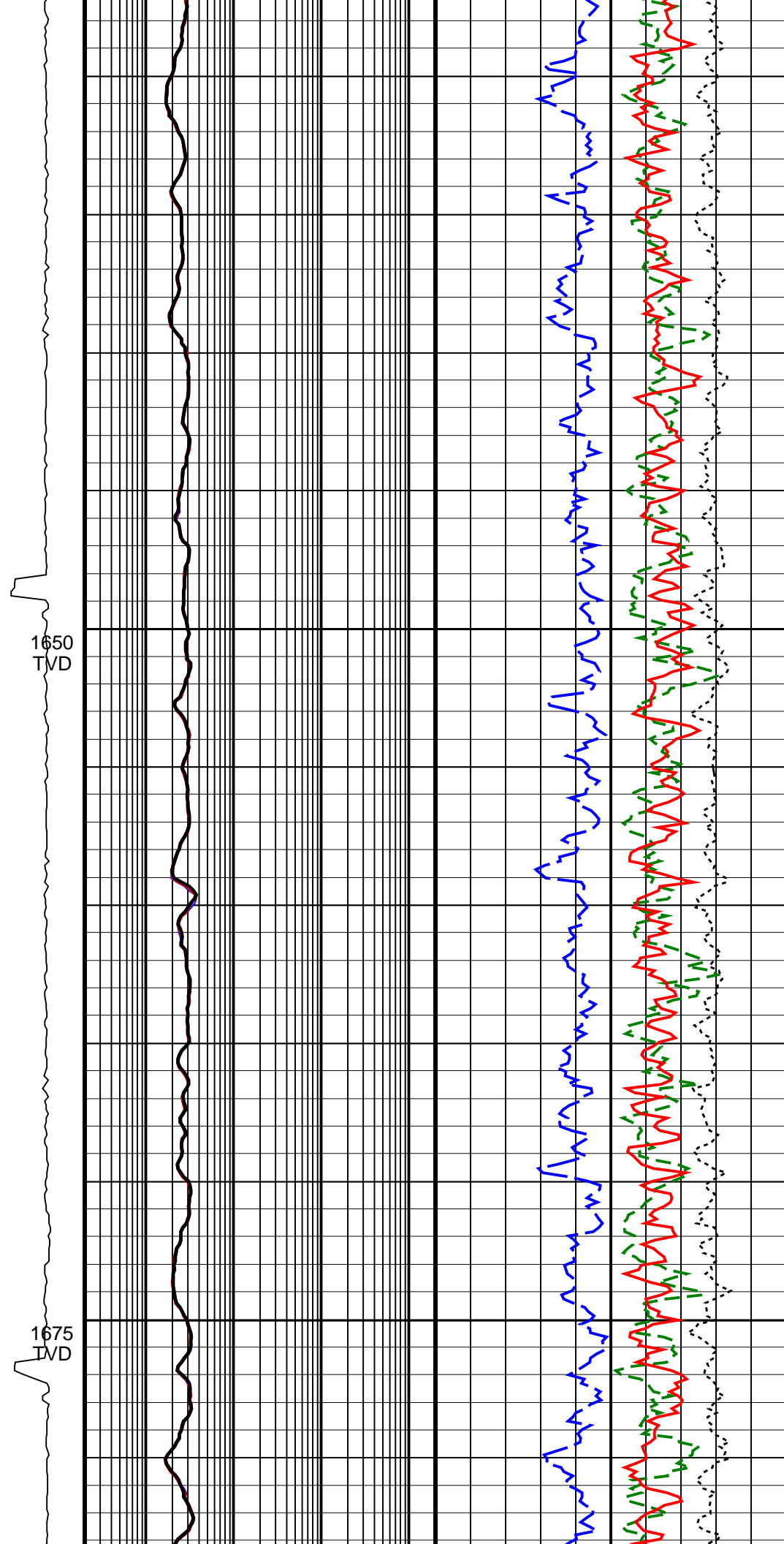
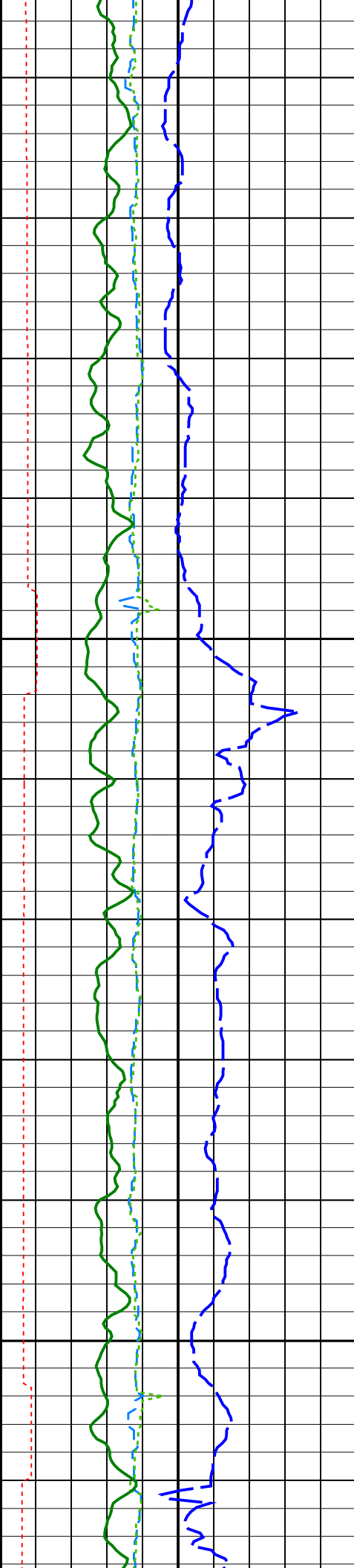


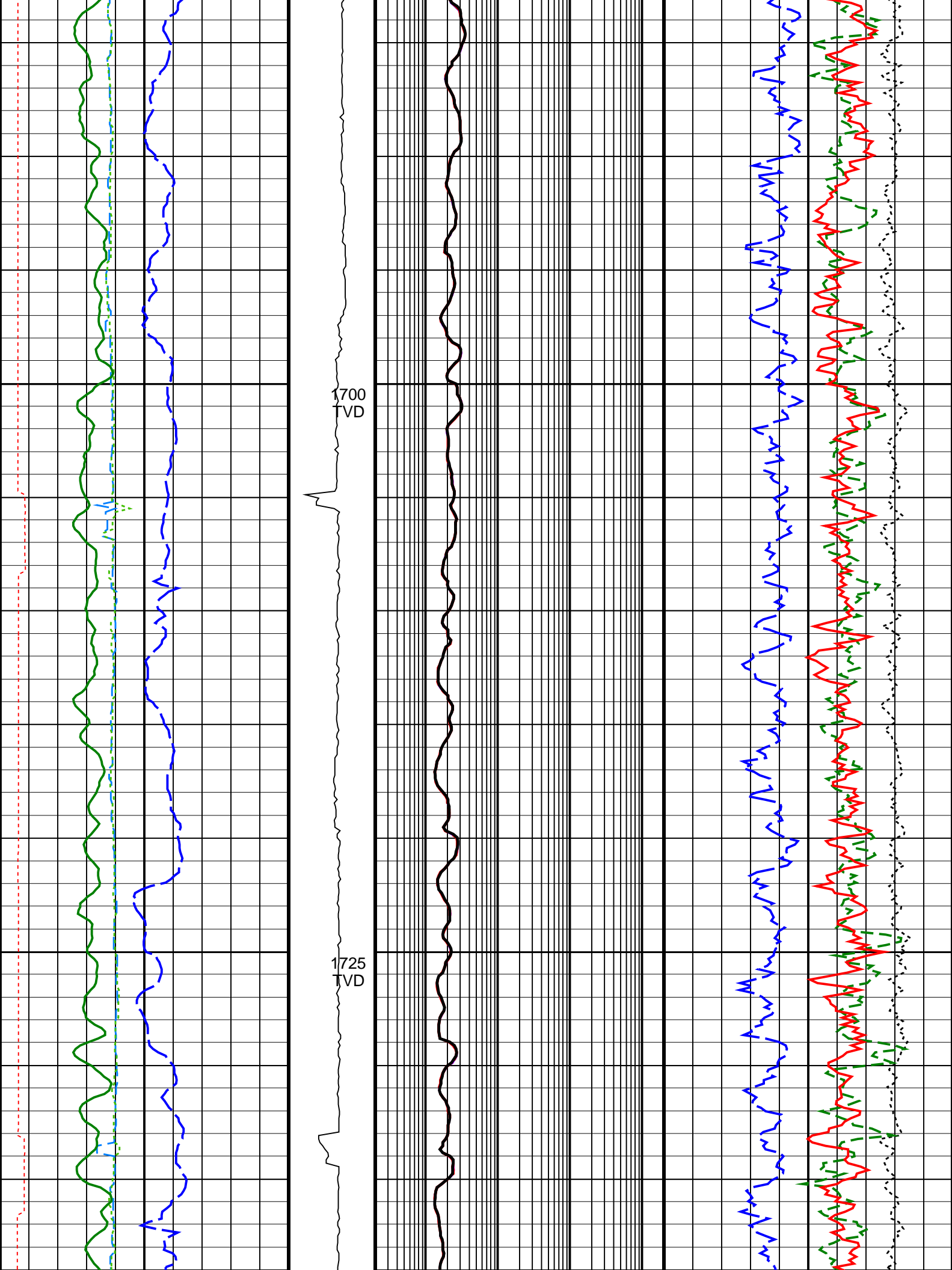


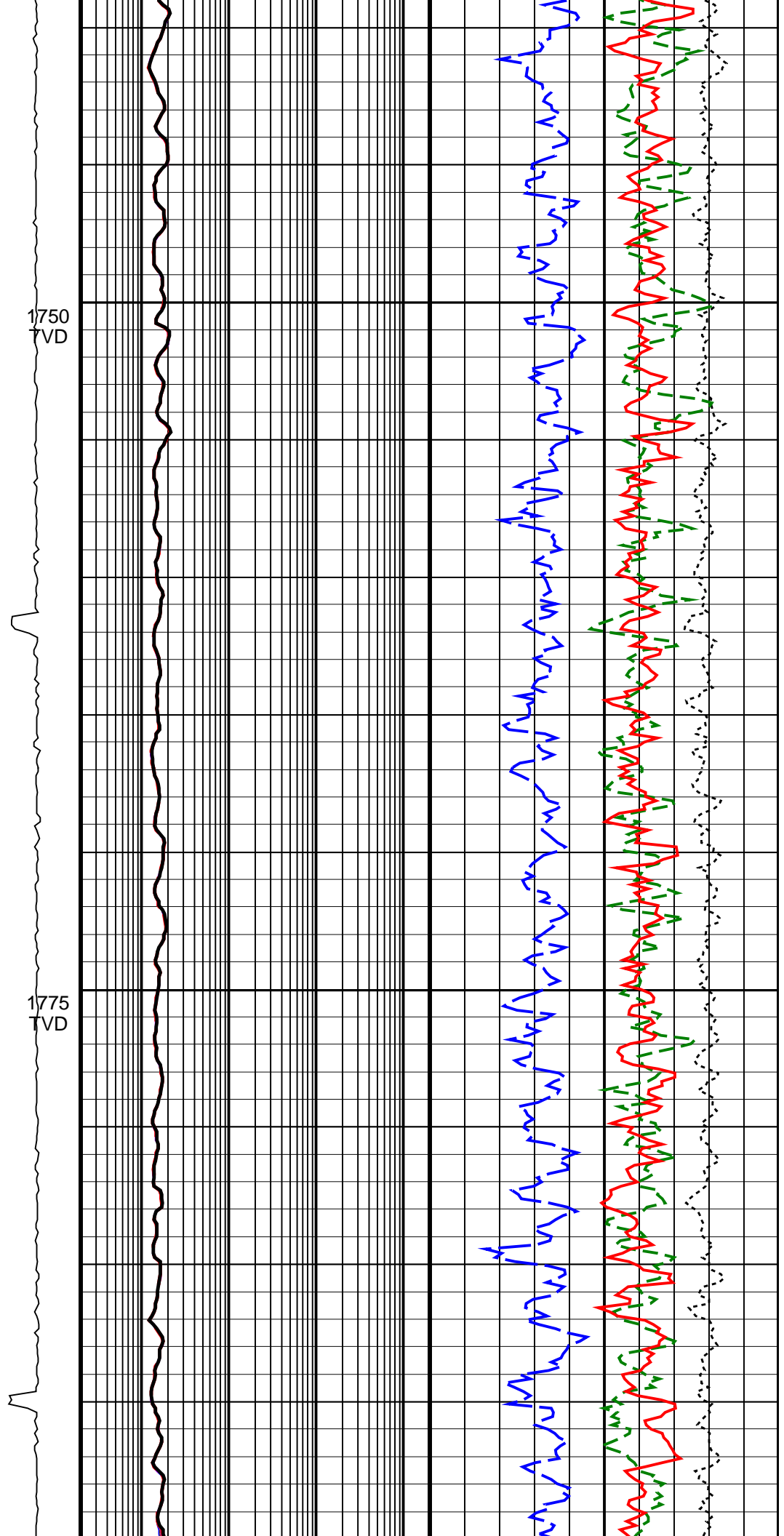
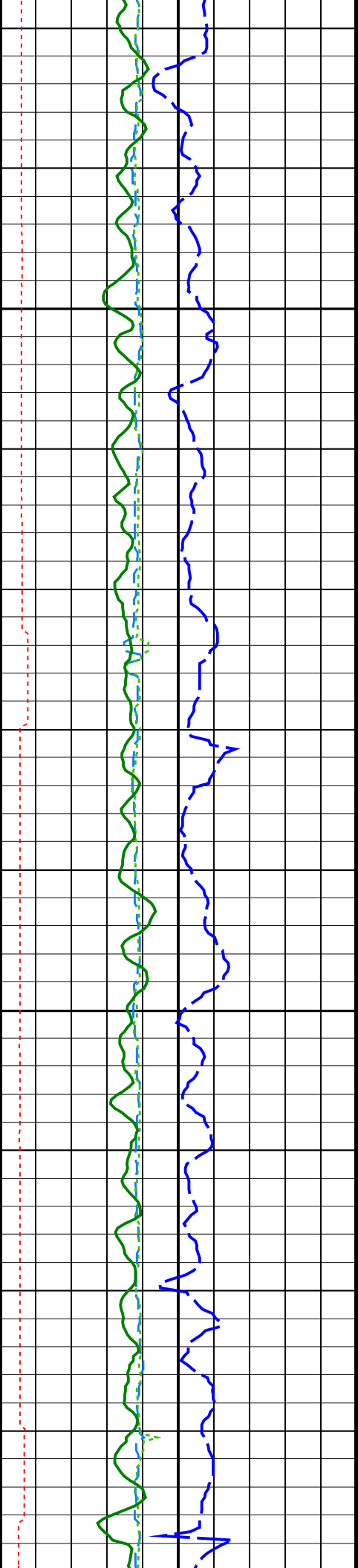


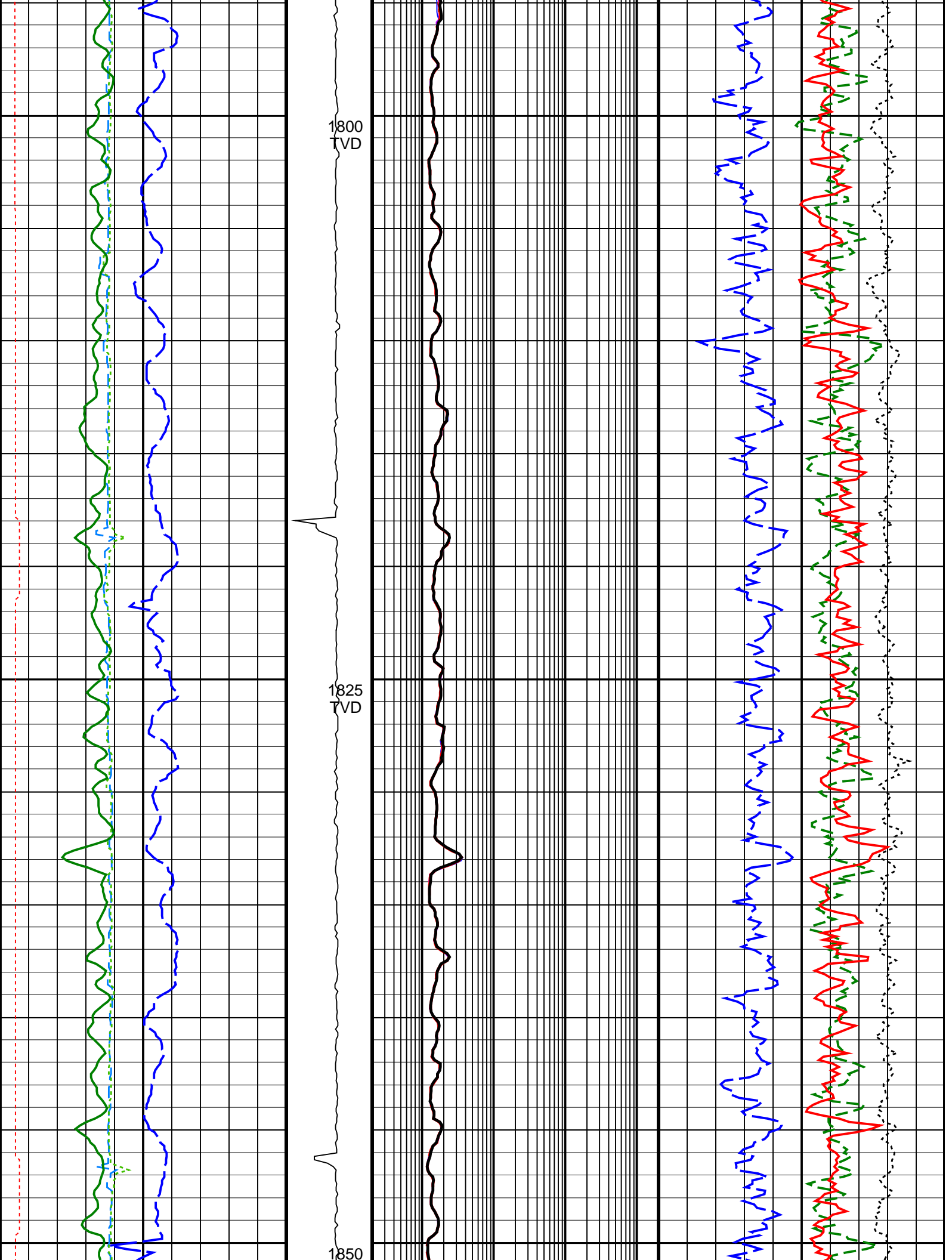


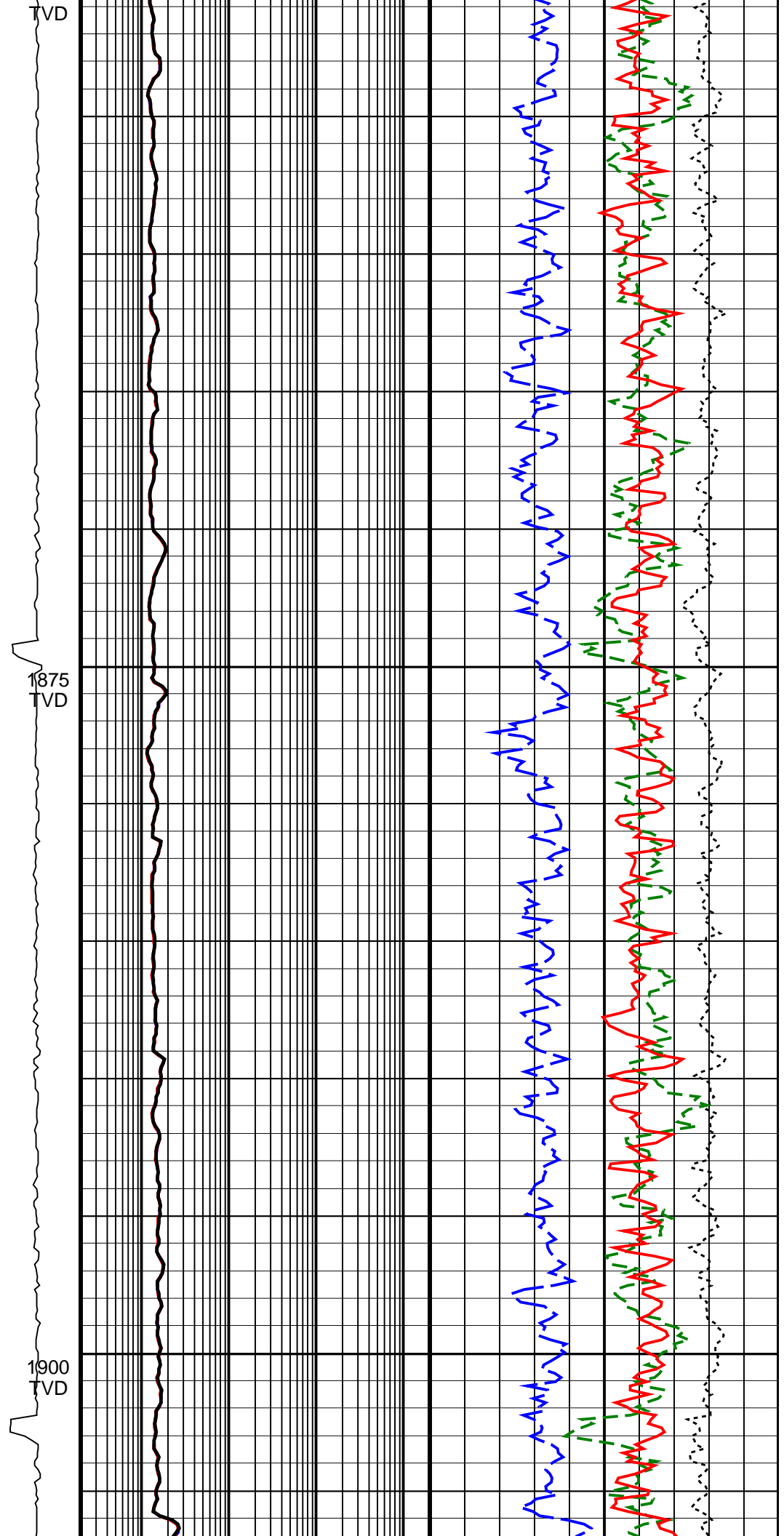
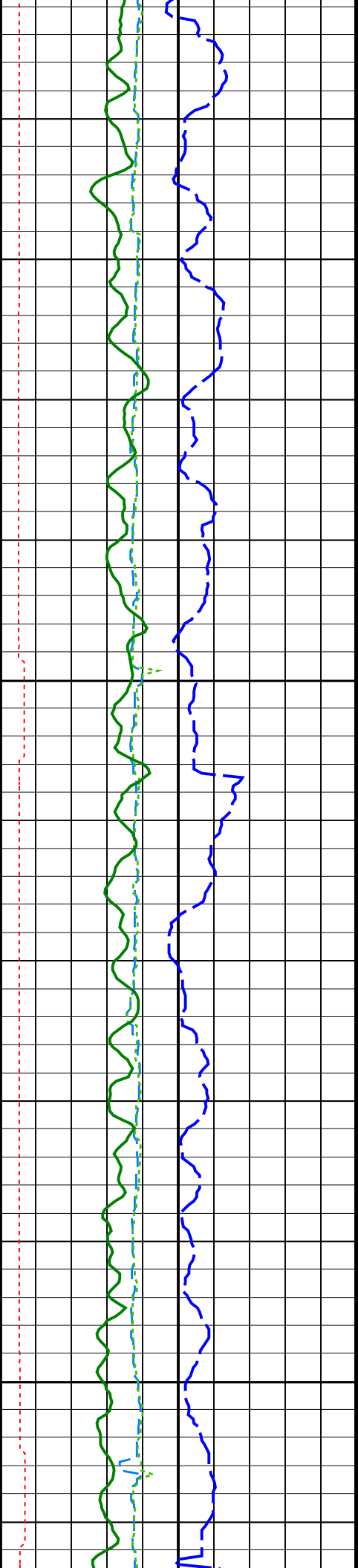


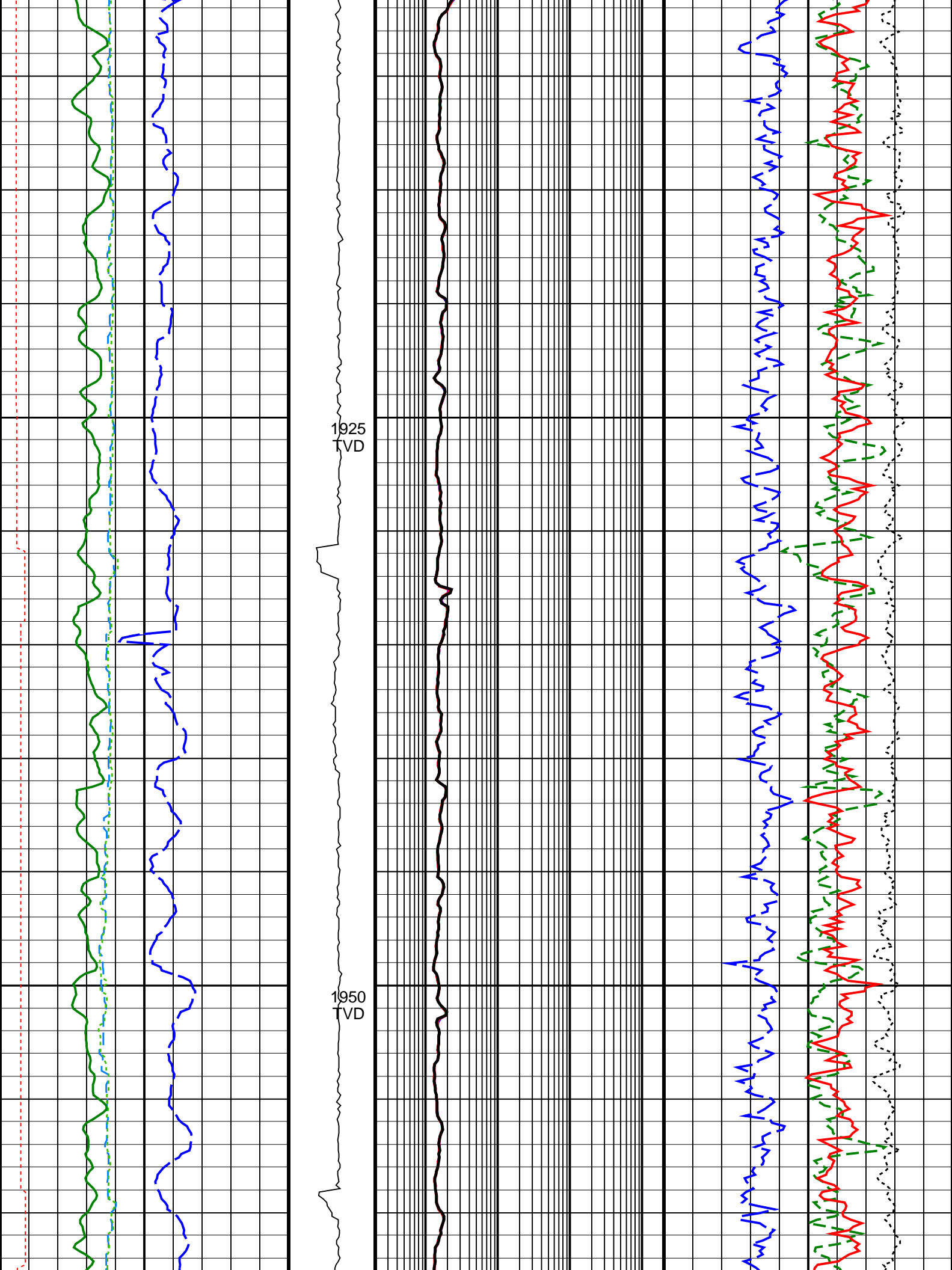


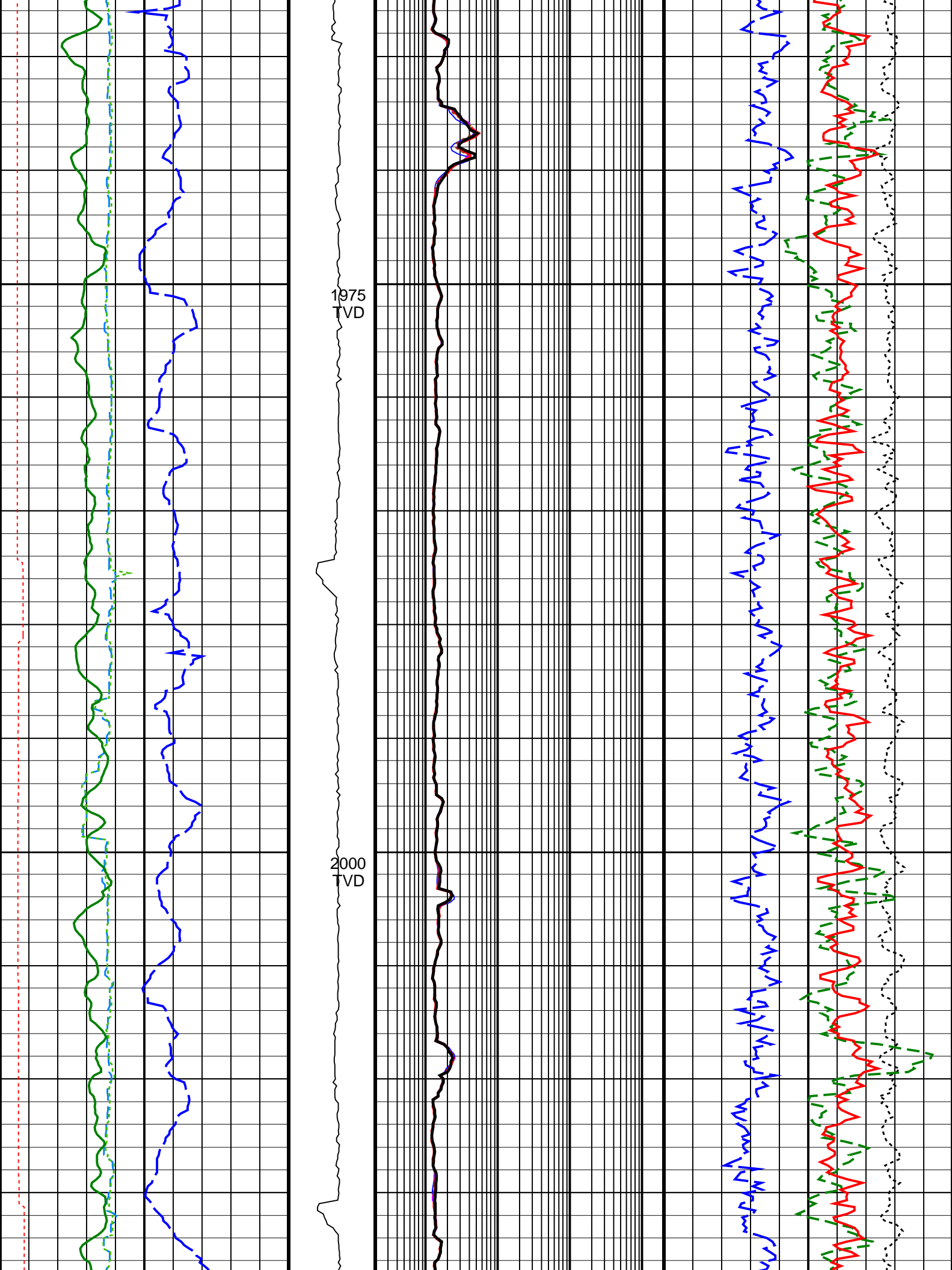


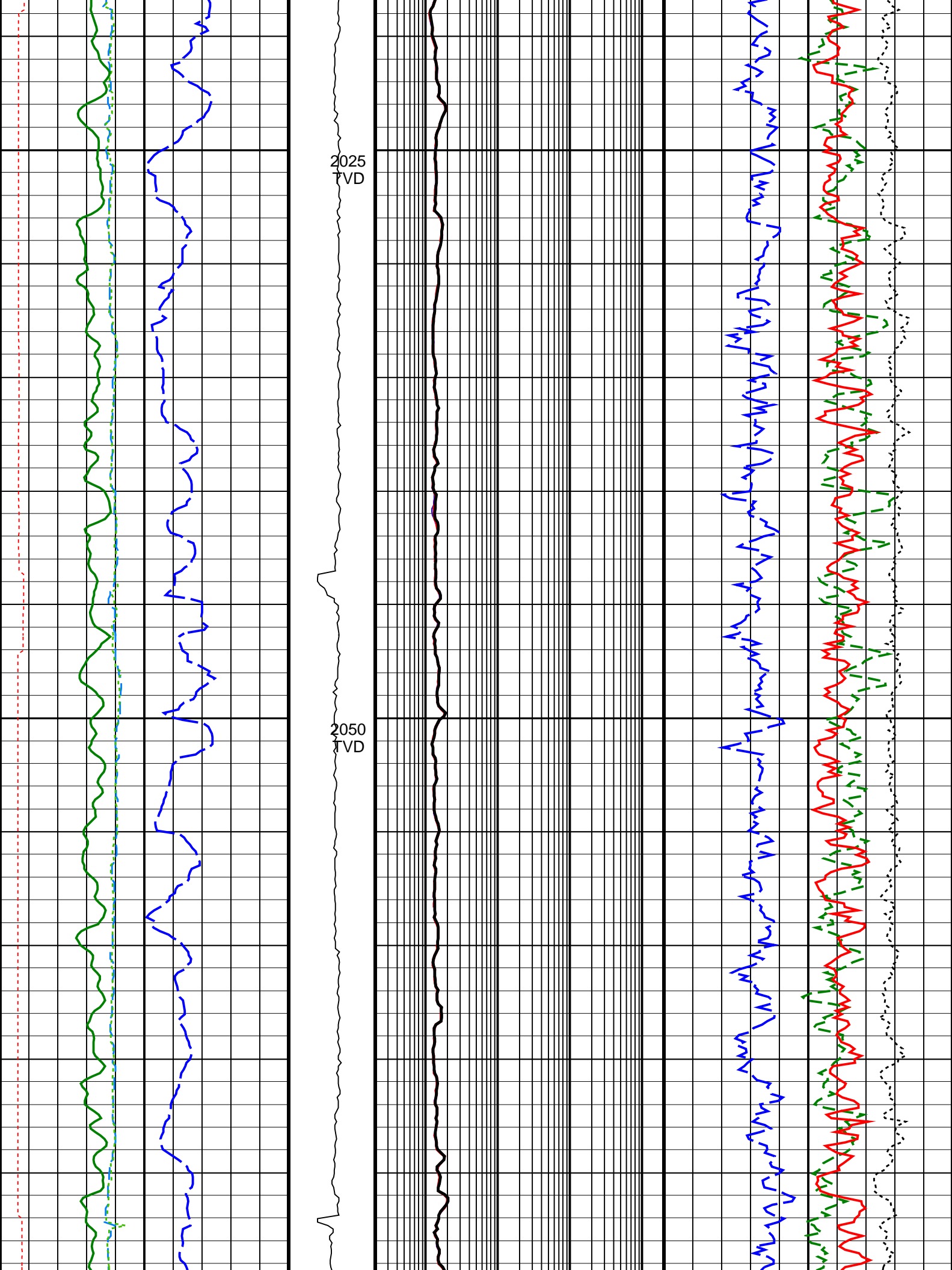


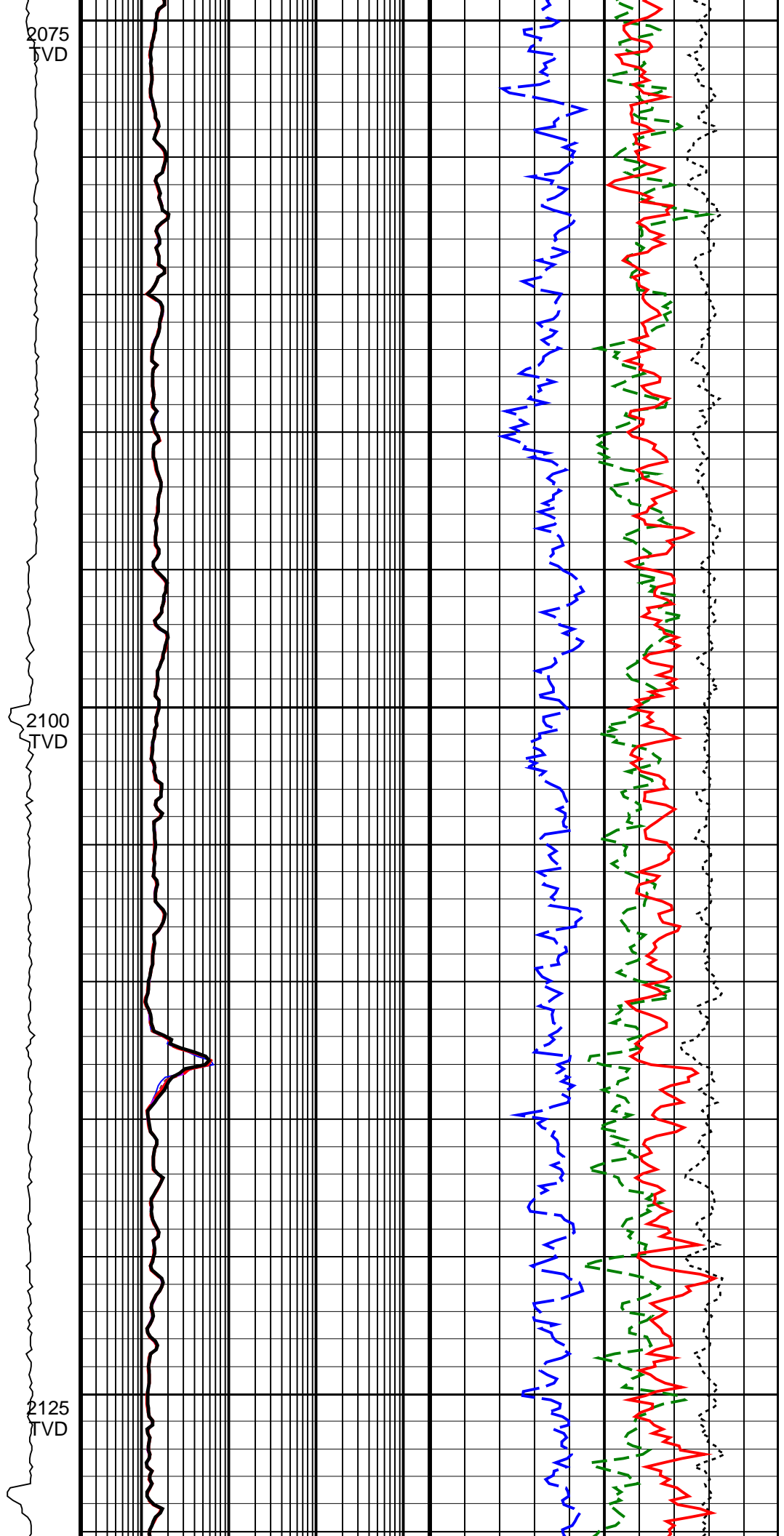
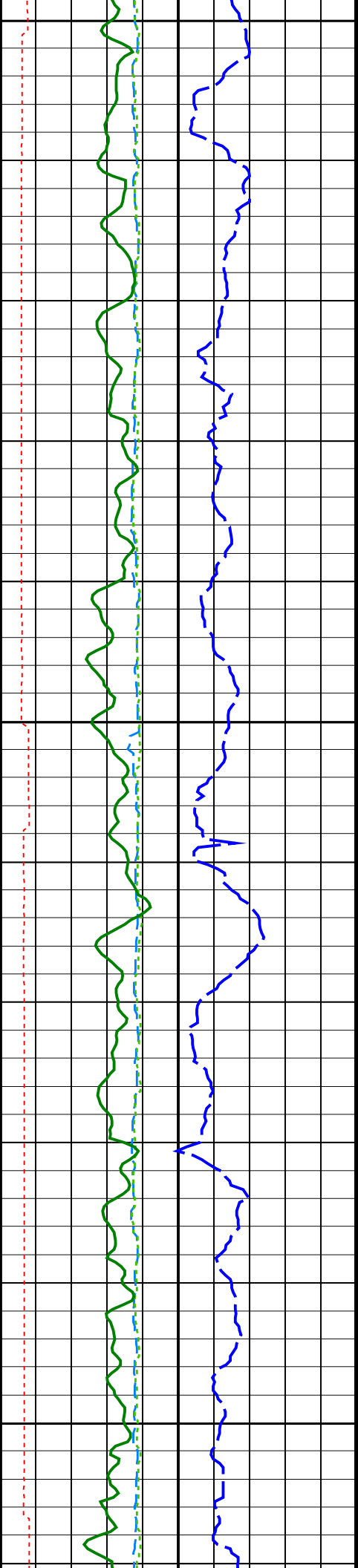


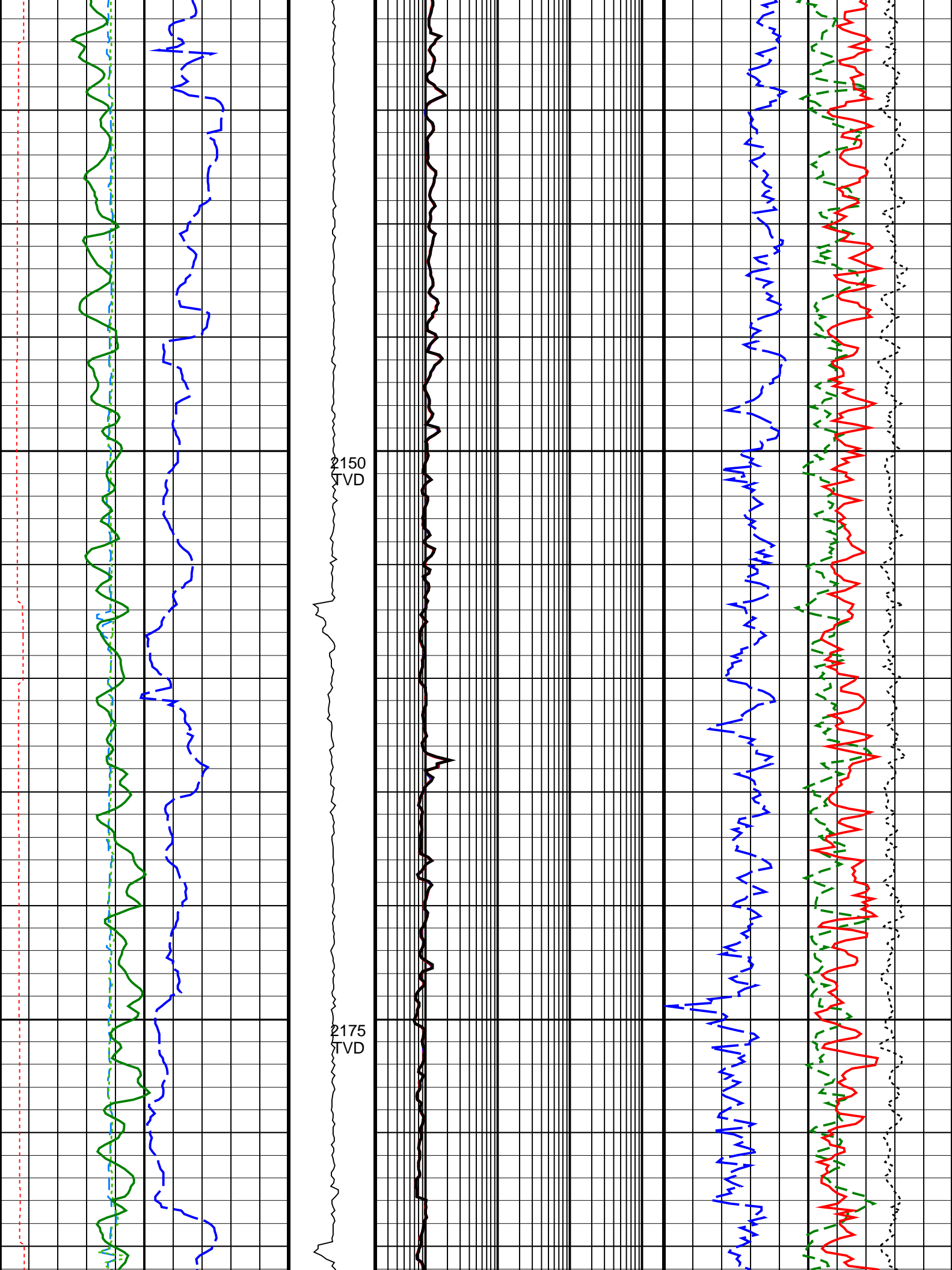


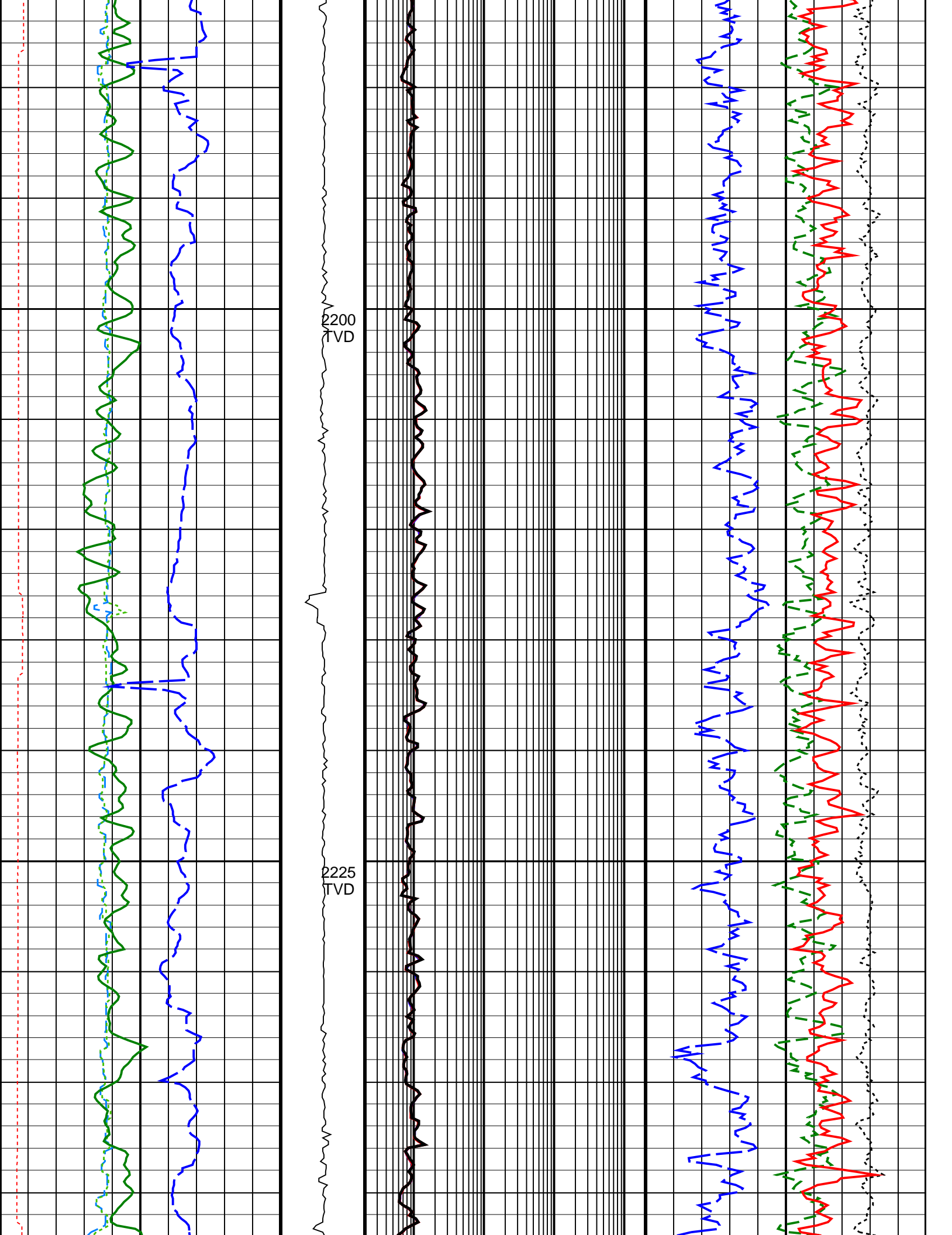


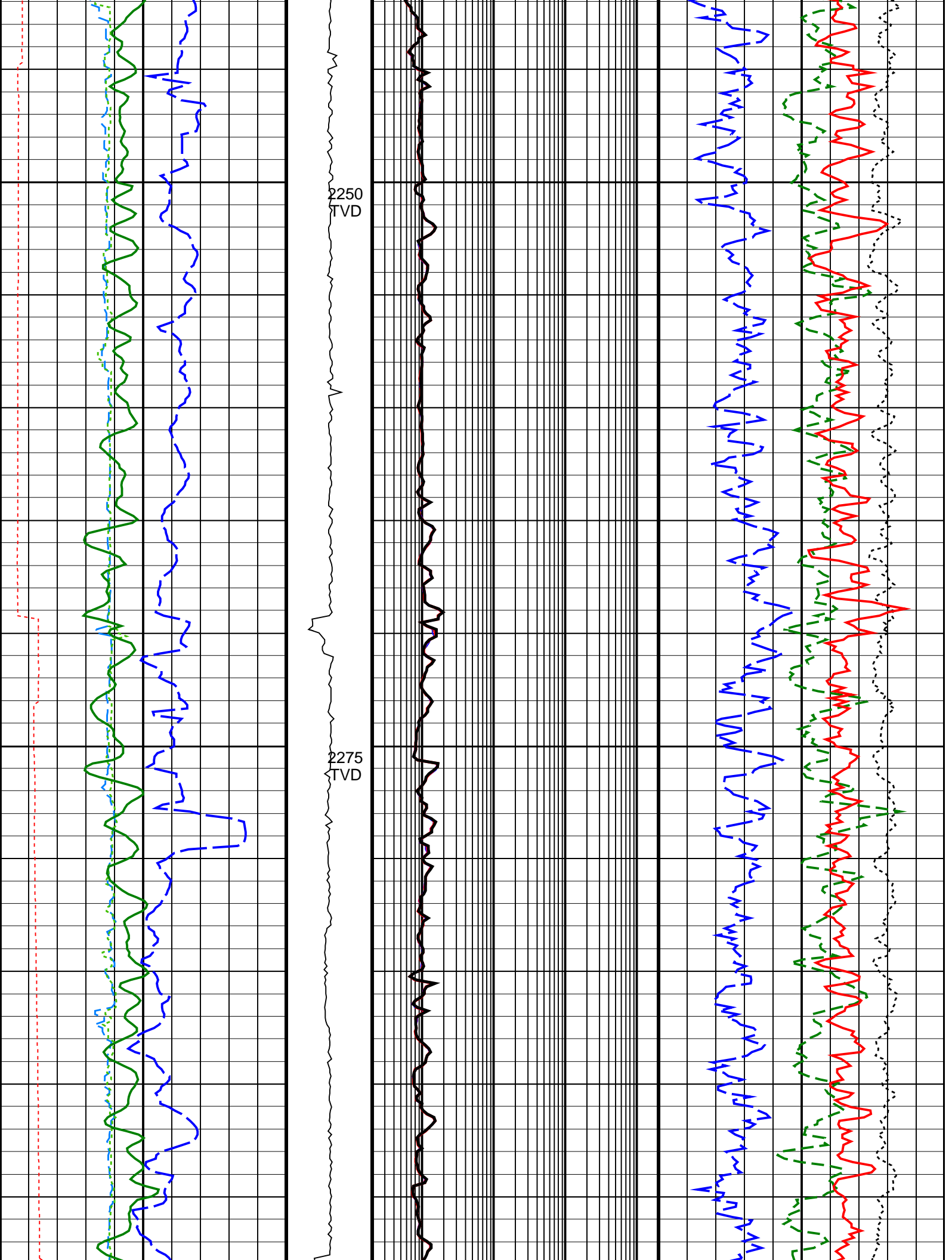


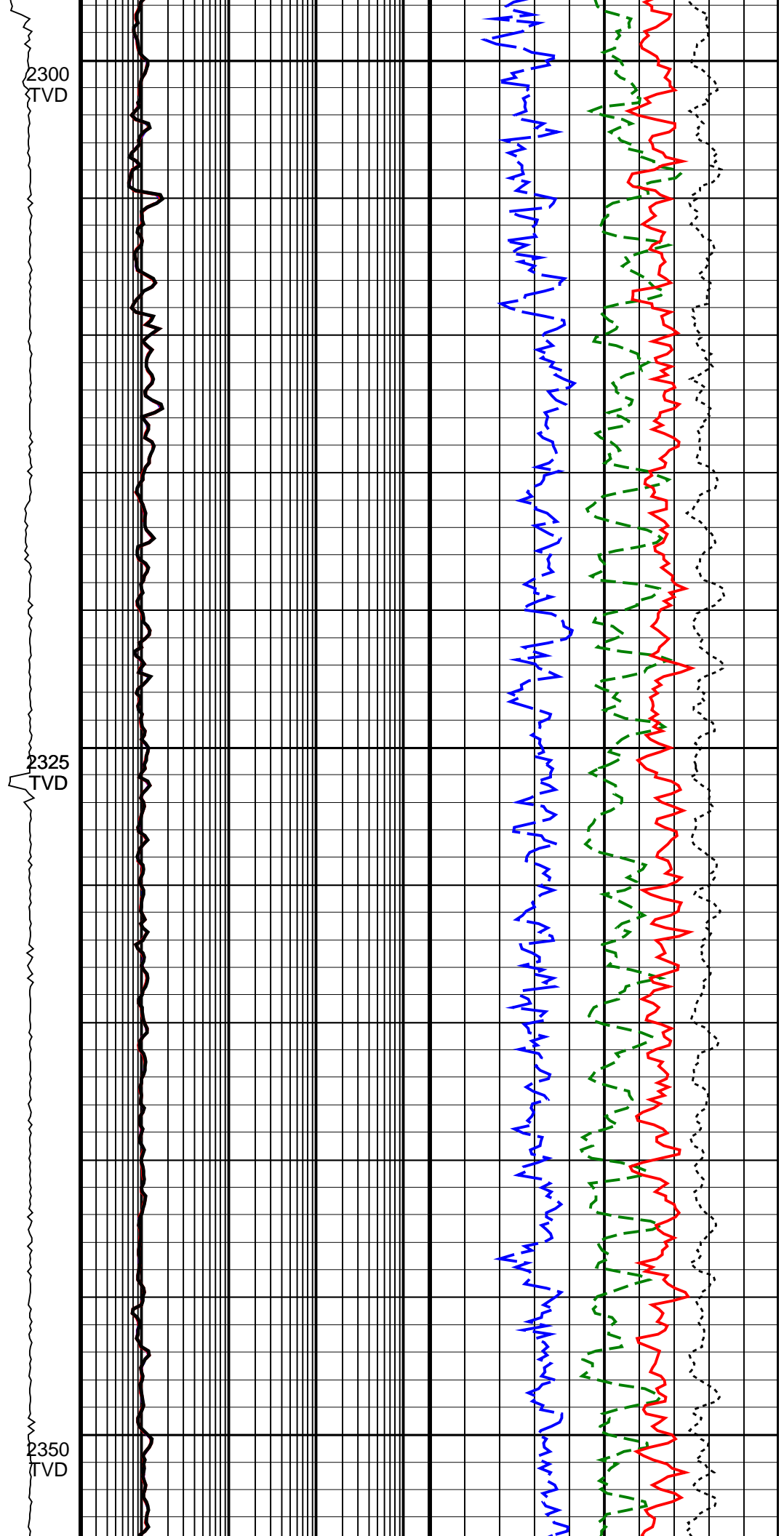
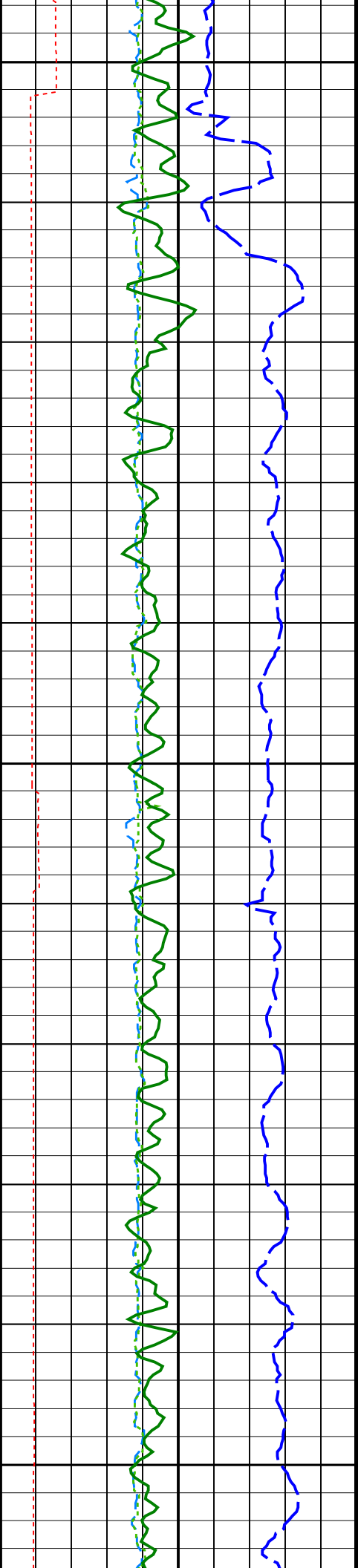


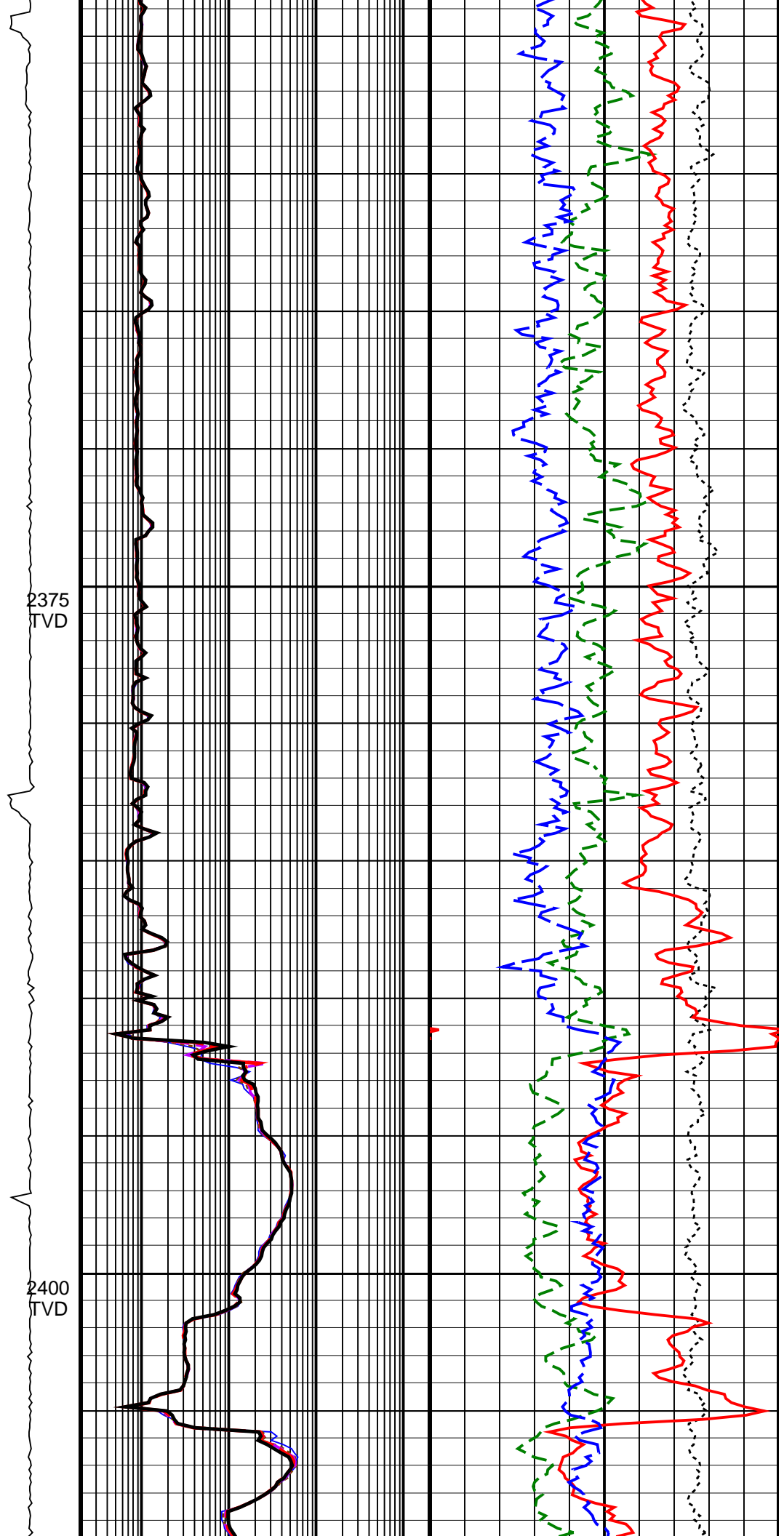
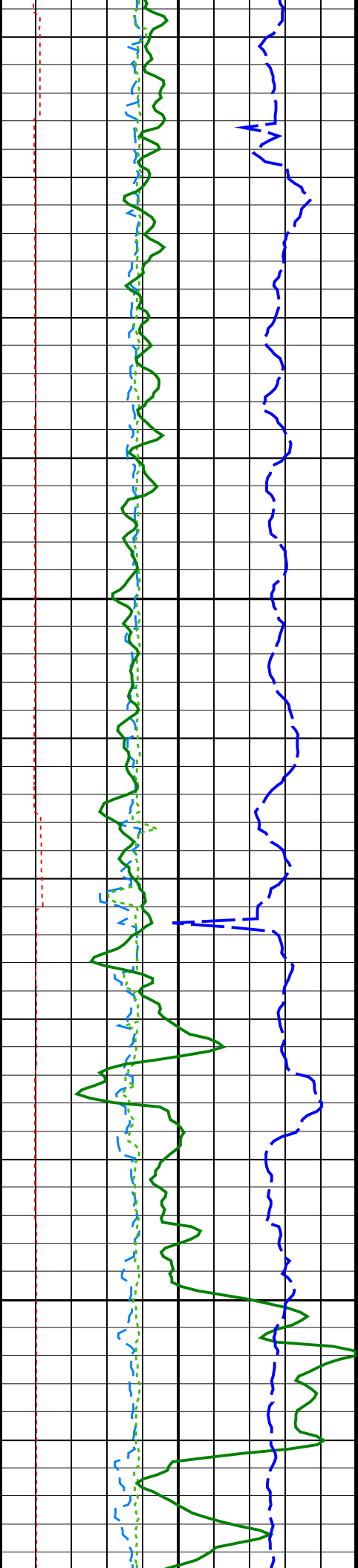


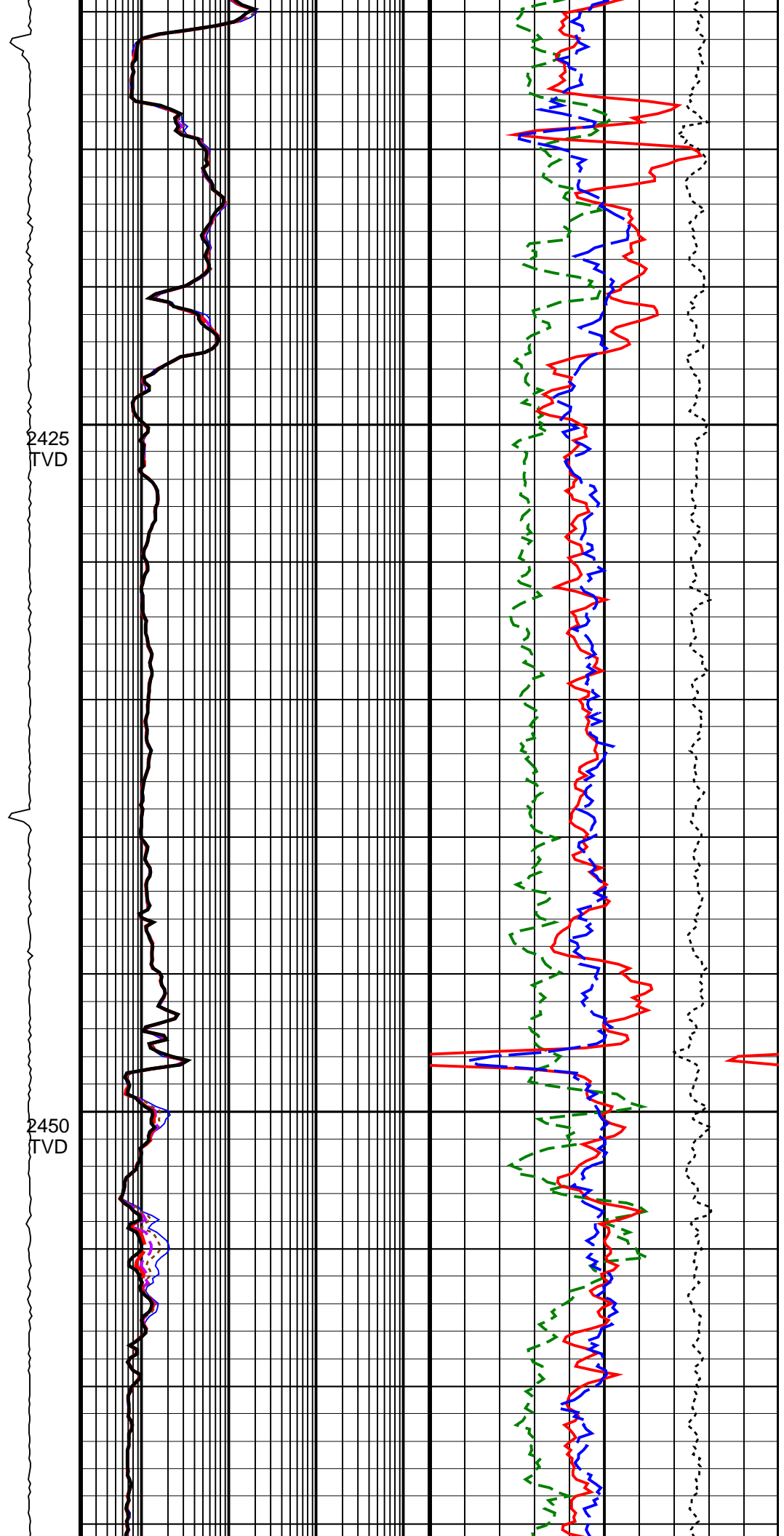
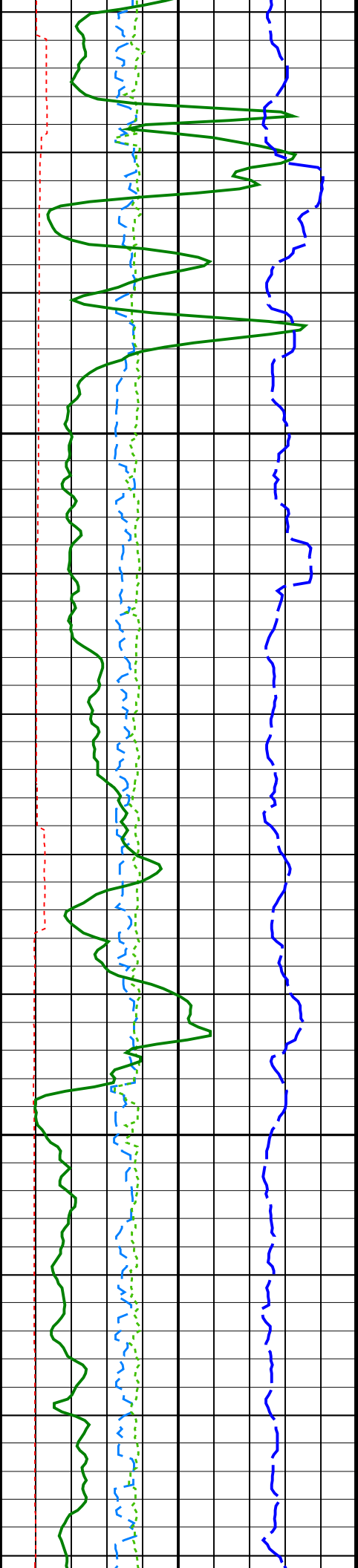


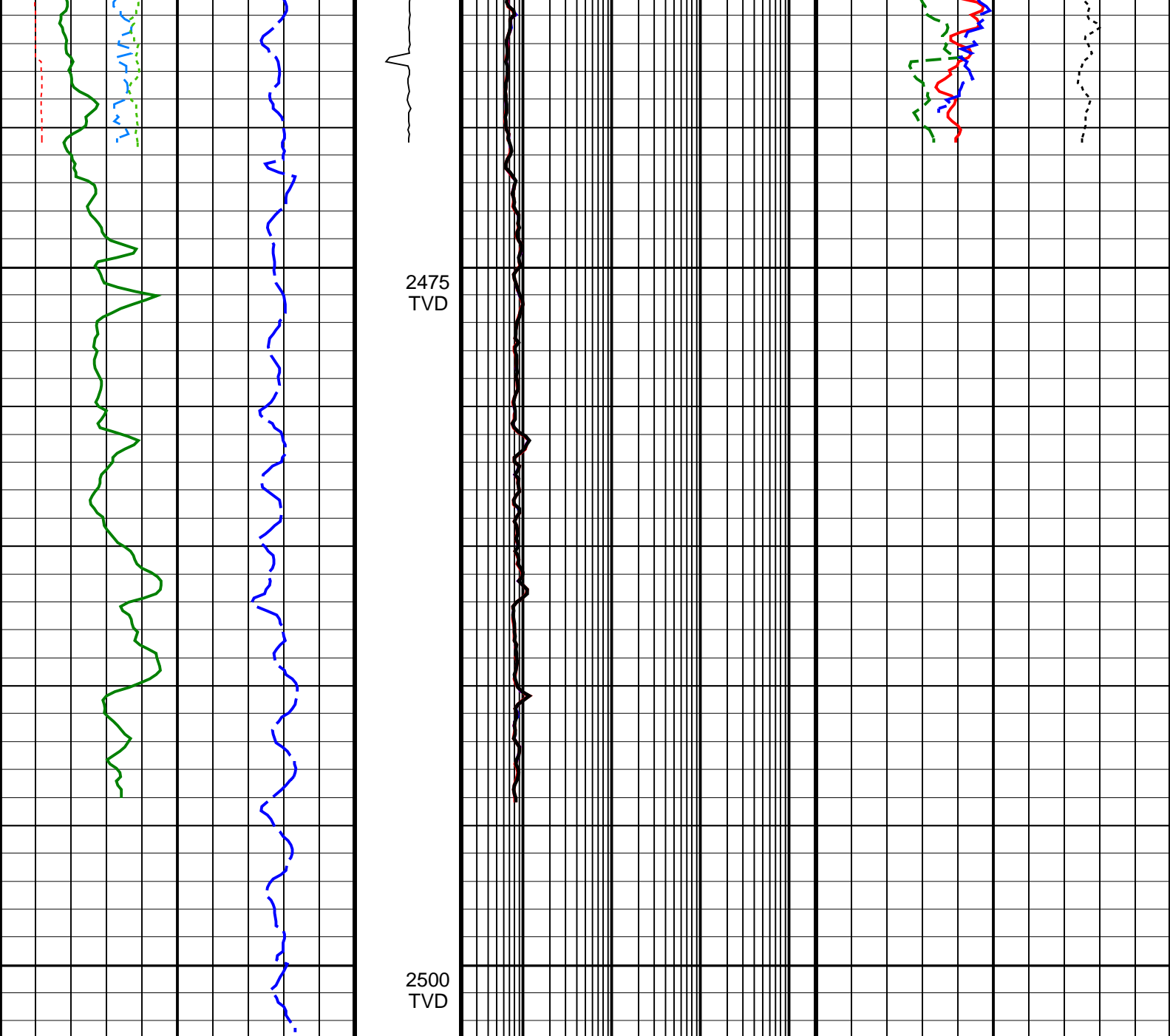












Density Time After Bit (TAB_DEN) (HR)	ADN Rotational Speed (RPM_ADN) (RPM)	ARC Phase-Shift Resistivity 16-in. at 2 MHz (P16H) (OHMM)	Bulk Density Correction, Bottom (DRHB) (G/C3)
010	0250	0.22000	-0.750.25
Horizontal Hole Diameter (HORD) (IN)		ARC Phase-Shift Resistivity 22-in. at 2 MHz (P22H) (OHMM)	Photoelectric Factor, Bottom (PEB) (----
616		0.22000	010
Vertical Hole Diameter (VERD) (IN)		ARC Phase-Shift Resistivity 28-in. at 2 MHz (P28H) (OHMM)	Bulk Density, Bottom (ROBB) (G/C3)
616		0.22000	1.852.85
ARC Gamma Ray (GR_ARC) (GAPI)		ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H) (OHMM)	Thermal Neutron Porosity (TNPH) (V/V)
0200		0.22000	0.45-0.15
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)		ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H) (OHMM)	
2000		0.22000	

True Vertical Depth Log

6.75-in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:	ADN6 – CA	2400
Tool Name and Serial Number	E148° 18' 32.826"	
Collar Type and Serial Number	ADSE – EA	373
Chassis Type and Serial Number	–	1
Stabilizer Type and Serial Number	NSR – M	202
Neutron Logging Source	GSR – J/Z	1994
Density Logging Source	9.33 – in.	
Stabilizer Size	AUTO –	
Calibration Status		

Master: 13–Jun–2009 20:01									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Magnesium Block									
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value
Master				656.9	Master				1779
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)			700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	
Phase	SS window 3 – Mg CPS			Value					
Master				4655					
	2500 (Minimum)	23750 (Nominal)	45000 (Maximum)						


Master: 13–Jun–2009 20:01									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Aluminum Block									
Phase	LS window 3 – Al CPS			Value	Phase	SS window 1 – Al CPS			Value
Master				109.5	Master				1032
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	
Phase	SS window 3 – Al CPS			Value					
Master				3281					
	1500 (Minimum)	15750 (Nominal)	30000 (Maximum)						

Master: 13–Jun–2009 20:01									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Background									
Phase	LS window 3 – Background CPS			Value	Phase	SS window 1 – Background CPS			Value
Master				48.40	Master				112.5
	15.00 (Minimum)	82.50 (Nominal)	150.0 (Maximum)			40.00 (Minimum)	220.0 (Nominal)	400.0 (Maximum)	
Phase	SS window 3 – Background CPS			Value					
Master				497.2					
	150.0 (Minimum)	825.0 (Nominal)	1500 (Maximum)						


Master: 13–Jun–2009 20:01									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Water Block Check									
Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value
Master				1.016	Master				1.115
	1.005 (Minimum)	1.020 (Nominal)	1.035 (Maximum)			1.081 (Minimum)	1.111 (Nominal)	1.141 (Maximum)	

Master: 13–Jun–2009 20:01									
6.75-in. Azimuthal Density Neutron Calibration									
Neutron: 3-Point Calibration									
Phase	Far 1 tube 1 Air Point Measure CPS			Value	Phase	Far 1 tube 1 Rod Point Measure CPS			Value
Master				17.93	Master				4.529
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)			3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)	
Phase	Far 1 tube 1 H2O Point Measure CPS			Value	Phase	Far 1 tube 2 Air Point Measure CPS			Value
Master				2.114	Master				18.62
	1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)			13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)	
Phase	Far 1 tube 2 Rod Point Measure CPS			Value	Phase	Far 1 tube 2 H2O Point Measure CPS			Value
Master				4.667	Master				2.235
	3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)			1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)	
Phase	Far 1 tube 3 Air Point Measure CPS			Value	Phase	Far 1 tube 3 Rod Point Measure CPS			Value
Master				16.87	Master				4.339
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)			3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)	
Phase	Far 1 tube 3 H2O Point Measure CPS			Value	Phase	Far 2 tube 1 Air Point Measure CPS			Value
Master				2.013	Master				16.92
	1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)			13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)	
Phase	Far 2 tube 1 Rod Point Measure CPS			Value	Phase	Far 2 tube 1 H2O Point Measure CPS			Value
Master				4.699	Master				2.168
	3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)			1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)	

(Minimum)					(Nominal)					(Maximum)					(Minimum)					(Nominal)					(Maximum)					(Minimum)					(Nominal)					(Maximum)				
Phase	Far 2 tube 2 Air	Point Measure	CPS	Value	Phase	Far 2 tube 2 Rod	Point Measure	CPS	Value	Phase	Far 2 tube 2 H2O	Point Measure	CPS	Value	Phase	Far 2 tube 3 Air	Point Measure	CPS	Value	Phase	Far 2 tube 3 Rod	Point Measure	CPS	Value	Phase	Far 2 tube 3 H2O	Point Measure	CPS	Value															
Master				18.66	Master				4.713	Master				2.280																														
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)			3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)			1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)																															
Phase	Far 2 tube 3 Air	Point Measure	CPS	Value	Phase	Far 2 tube 3 Rod	Point Measure	CPS	Value	Phase	Far 2 tube 3 H2O	Point Measure	CPS	Value																														
Master				17.89	Master				4.538	Master				2.162																														
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)			3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)			1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)																															
Phase	Near 1 tube 1 Air	Point Measure	CPS	Value	Phase	Near 1 tube 1 Rod	Point Measure	CPS	Value	Phase	Near 1 tube 1 H2O	Point Measure	CPS	Value																														
Master				470.7	Master				721.6	Master				339.2																														
	345.0 (Minimum)	487.5 (Nominal)	595.0 (Maximum)			535.0 (Minimum)	768.8 (Nominal)	925.0 (Maximum)			230.0 (Minimum)	343.7 (Nominal)	430.0 (Maximum)																															
Phase	Near 2 tube 1 Air	Point Measure	CPS	Value	Phase	Near 2 tube 1 Rod	Point Measure	CPS	Value	Phase	Near 2 tube 1 H2O	Point Measure	CPS	Value																														
Master				476.5	Master				716.6	Master				337.4																														
	345.0 (Minimum)	487.5 (Nominal)	595.0 (Maximum)			535.0 (Minimum)	768.8 (Nominal)	925.0 (Maximum)			230.0 (Minimum)	343.7 (Nominal)	430.0 (Maximum)																															

Master: 13-Jun-2009 20:01									
6.75-in. Azimuthal Density Neutron Calibration									
Neutron: Water Block Check									
Phase	Far Neutron water porosity PU								Value
Master									106.2
	90.00 (Minimum)				100.0 (Nominal)			125.0 (Maximum)	

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	<div><div></div></div>		6.040	Master	<div><div></div></div>		5.543	Master	<div><div></div></div>		3.936
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	<div><div></div></div>		4.099								
1.600 (Minimum)3.600 (Nominal)5.600 (Maximum)											

Master: 17-Apr-2009 13:43		
6.75-in. Array Resistivity Compensated Calibration		
Gamma Ray: Blanket		
Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS	Value
Master		5.022
2.780 (Minimum)	4.800 (Nominal)	6.000 (Maximum)

SCHLUMBERGER

Survey report 28-Jun-2009 10:51:46

Client.....: Esso Australia Pty. Ltd.
Field.....: Halibut

Well.....: CBA A-33 Spud date.....: 15-Jun-09
API number.....: n/a Last survey date.....: 24-Jun-09
Engineer.....: M. Amarasena, B. Low Total accepted surveys...: 164
MD of first survey.....: 0.00 m
Rig Label.....: ISDL 175 MD of last survey.....: 2579.00 m
STATE.....: Victoria

----- Survey calculation methods----- ----- Geomagnetic data -----
Method for positions.....: Minimum curvature Magnetic model.....: BGGM version 2008
Method for DLS.....: Mason & Taylor Magnetic date.....: 22-Jun-2009
Magnetic field strength...: 1199.42 HCNT

----- Depth reference -----
Permanent datum.....: Mean Sea Level Magnetic dec (+E/W-).....: 13.22 degrees
Depth reference.....: Driller's Depth Magnetic dip.....: -68.86 degrees
Observed magnetic declination.....: 73.6 degrees

MWD survey Reference Criteria

GL above permanent..... -79.00 m
 KB above permanent..... Top Drive
 DF above permanent..... 41.00 m
 Reference Dip..... -68.86 degrees
 Reference G..... 1000.05 mGal
 Reference H..... 1199.43 HCNT
 Tolerance of G..... (+/-) 2.50 mGal
 Tolerance of H..... (+/-) 6.00 HCNT
 Tolerance of Dip..... (+/-) 0.45 degrees

----- Platform reference point-----
 Latitude (+N/S-)..... -304.57 m
 Departure (+E/W-)..... -304.57 m
 Magnetic dec (+E/W-)..... 13.22 degrees
 Grid convergence (+E/W-)..... -0.81 degrees
 Total az corr (+E/W-)..... 14.03 degrees
 Azimuth from Vsect Origin to target: 207.22 degrees (Total az corr = magnetic dec - grid conv)
 Survey Correction Type G
 I=Sag Corrected Inclination
 M=Schlumberger Magnetic Correction
 S=Shell Magnetic Correction
 F=Failed Axis Correction
 R=Magnetic Resonance Tool Correction
 G=Gmag Magnetic Correction

[(c)2009 IDEAL ID14_OC_14]
 SCHLUMBERGER Survey Report

28-Jun-2009 10:51:46

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/100f)	DLS (deg)	Srvy tool	Tool Corr
1	0.00	0.00	0.00	0.00	0.00	0.00	-2.70	8.71	9.12	107.22	0.00	TIP	None
2	16.66	0.00	0.00	16.66	16.66	0.00	-2.70	8.71	9.12	107.22	0.00	MWD_M	None
3	36.66	0.24	294.89	20.00	36.66	0.00	-2.68	8.67	9.08	107.19	0.37	MWD_M	None
4	38.66	0.25	303.61	2.00	38.66	0.00	-2.68	8.66	9.07	107.18	0.59	MWD_M	None
5	40.66	0.23	259.46	2.00	40.66	0.00	-2.68	8.66	9.06	107.18	2.76	MWD_M	None
6	42.66	0.18	292.07	2.00	42.66	0.01	-2.68	8.65	9.05	107.19	1.90	MWD_M	None
7	44.66	0.25	248.27	2.00	44.66	0.01	-2.68	8.64	9.05	107.21	2.64	MWD_M	None
8	46.66	0.17	292.97	2.00	46.66	0.01	-2.68	8.64	9.04	107.22	2.68	MWD_M	None
9	48.66	0.19	310.99	2.00	48.66	0.01	-2.67	8.63	9.04	107.21	0.91	MWD_M	None
10	50.66	0.17	259.27	2.00	50.66	0.01	-2.67	8.63	9.03	107.21	2.41	MWD_M	None
11	52.66	0.15	297.42	2.00	52.66	0.02	-2.67	8.62	9.02	107.22	1.62	MWD_M	None
12	54.66	0.26	223.06	2.00	54.66	0.02	-2.67	8.62	9.02	107.24	4.01	MWD_M	None
13	56.66	0.19	237.40	2.00	56.66	0.03	-2.68	8.61	9.02	107.28	1.36	MWD_M	None
14	58.66	0.18	256.40	2.00	58.66	0.03	-2.68	8.60	9.01	107.31	0.94	MWD_M	None
15	60.66	0.20	297.74	2.00	60.66	0.03	-2.68	8.60	9.01	107.32	2.06	MWD_M	None
16	62.66	0.24	276.40	2.00	62.66	0.04	-2.68	8.59	9.00	107.32	1.38	MWD_M	None
17	64.66	0.22	273.19	2.00	64.66	0.04	-2.68	8.58	8.99	107.33	0.36	MWD_M	None
18	66.66	0.29	249.88	2.00	66.66	0.04	-2.68	8.57	8.98	107.35	1.89	MWD_M	None
19	68.66	0.29	256.71	2.00	68.66	0.05	-2.68	8.56	8.97	107.39	0.53	MWD_M	None
20	70.66	0.27	270.40	2.00	70.66	0.06	-2.68	8.55	8.96	107.41	1.06	MWD_M	None
21	72.66	0.32	265.13	2.00	72.66	0.06	-2.68	8.54	8.96	107.44	0.87	MWD_M	None
22	74.66	0.30	298.10	2.00	74.66	0.06	-2.68	8.53	8.94	107.44	2.70	MWD_M	None
23	76.66	0.33	257.14	2.00	76.66	0.07	-2.68	8.52	8.93	107.46	3.39	MWD_M	None
24	78.66	0.29	290.54	2.00	78.66	0.07	-2.68	8.51	8.92	107.47	2.78	MWD_M	None
25	80.66	0.29	286.15	2.00	80.66	0.07	-2.68	8.50	8.91	107.47	0.34	MWD_M	None
26	82.66	0.33	279.92	2.00	82.66	0.08	-2.67	8.49	8.90	107.48	0.80	MWD_M	None
27	84.66	0.34	290.80	2.00	84.66	0.08	-2.67	8.48	8.89	107.48	0.98	MWD_M	None
28	86.66	0.34	294.63	2.00	86.66	0.08	-2.67	8.47	8.88	107.47	0.35	MWD_M	None
29	88.66	0.29	307.58	2.00	88.66	0.08	-2.66	8.46	8.87	107.46	1.32	MWD_M	None
30	90.66	0.26	281.54	2.00	90.66	0.08	-2.66	8.45	8.86	107.45	1.94	MWD_M	None
31	92.66	0.25	293.72	2.00	92.66	0.08	-2.65	8.44	8.85	107.45	0.84	MWD_M	None
32	94.66	0.25	302.92	2.00	94.66	0.08	-2.65	8.44	8.84	107.44	0.61	MWD_M	None
33	96.66	0.26	285.89	2.00	96.66	0.08	-2.65	8.43	8.83	107.43	1.16	MWD_M	None
34	98.66	0.25	302.46	2.00	98.66	0.08	-2.64	8.42	8.83	107.43	1.13	MWD_M	None
35	100.66	0.22	293.72	2.00	100.66	0.08	-2.64	8.41	8.82	107.42	0.71	MWD_M	None
36	102.66	0.23	282.98	2.00	102.66	0.08	-2.64	8.41	8.81	107.41	0.66	MWD_M	None
37	104.66	0.19	278.57	2.00	104.66	0.08	-2.64	8.40	8.80	107.42	0.66	MWD_M	None
38	106.66	0.21	273.94	2.00	106.66	0.09	-2.63	8.39	8.80	107.43	0.39	MWD_M	None
39	108.66	0.21	270.34	2.00	108.66	0.09	-2.63	8.38	8.79	107.44	0.20	MWD_M	None
40	110.66	0.24	288.48	2.00	110.66	0.09	-2.63	8.38	8.78	107.45	1.17	MWD_M	None
41	112.66	0.25	293.12	2.00	112.66	0.09	-2.63	8.37	8.77	107.44	0.34	MWD_M	None
42	114.66	0.21	265.48	2.00	114.66	0.10	-2.63	8.36	8.76	107.45	1.78	MWD_M	None
43	116.66	0.19	242.45	2.00	116.66	0.10	-2.63	8.35	8.76	107.48	1.25	MWD_M	None
44	118.66	0.25	225.46	2.00	118.66	0.11	-2.63	8.35	8.75	107.52	1.34	MWD_M	None
45	120.76	0.29	213.32	2.10	120.76	0.12	-2.64	8.34	8.75	107.58	1.01	MWD_M	None
46	122.66	0.39	203.57	1.90	122.66	0.13	-2.65	8.34	8.75	107.65	1.85	MWD_M	None
47	124.66	0.51	197.13	2.00	124.66	0.14	-2.67	8.33	8.75	107.75	1.98	MWD_M	None
48	126.66	0.68	191.96	2.00	126.66	0.16	-2.69	8.33	8.75	107.89	2.71	MWD_M	None
49	128.66	0.87	189.82	2.00	128.66	0.19	-2.71	8.32	8.75	108.06	2.93	MWD_M	None
50	130.66	0.97	187.72	2.00	130.66	0.22	-2.75	8.32	8.76	108.27	1.61	MWD_M	None
51	132.66	1.25	187.37	2.00	132.66	0.26	-2.78	8.31	8.77	108.52	4.27	MWD_M	None
52	134.66	1.40	186.55	2.00	134.66	0.30	-2.83	8.31	8.78	108.81	2.30	MWD_M	None
53	136.66	1.66	186.65	2.00	136.66	0.35	-2.88	8.30	8.79	109.15	3.96	MWD_M	None
54	138.76	1.90	186.78	2.10	138.76	0.41	-2.95	8.29	8.80	109.57	3.48	MWD_M	None
55	140.66	2.12	187.54	1.90	140.66	0.47	-3.01	8.28	8.82	109.99	3.55	MWD_M	None

56	142.66	2.37	188.74	2.00	142.65	0.55	-3.09	8.27	8.83	110.49	3.88	MWD_M	None
57	144.66	2.64	189.86	2.00	144.65	0.63	-3.18	8.26	8.85	111.04	4.18	MWD_M	None
58	146.66	2.85	190.62	2.00	146.65	0.72	-3.27	8.24	8.87	111.65	3.25	MWD_M	None
59	148.66	3.07	191.59	2.00	148.65	0.82	-3.37	8.22	8.89	112.31	3.44	MWD_M	None
60	150.66	3.34	192.90	2.00	150.64	0.93	-3.48	8.20	8.91	113.02	4.26	MWD_M	None
61	152.66	3.59	194.13	2.00	152.64	1.05	-3.60	8.17	8.93	113.78	3.97	MWD_M	None
62	154.66	3.82	195.57	2.00	154.64	1.17	-3.72	8.14	8.95	114.60	3.78	MWD_M	None
63	156.66	3.94	196.59	2.00	156.63	1.31	-3.85	8.10	8.97	115.45	2.11	MWD_M	None
64	158.66	4.15	198.51	2.00	158.63	1.45	-3.99	8.06	8.99	116.34	3.81	MWD_M	None
65	160.66	4.32	200.37	2.00	160.62	1.59	-4.13	8.01	9.01	117.28	3.33	MWD_M	None
66	162.66	4.46	202.53	2.00	162.61	1.74	-4.27	7.95	9.03	118.24	3.30	MWD_M	None
67	164.66	4.70	204.24	2.00	164.61	1.90	-4.42	7.89	9.04	119.25	4.21	MWD_M	None
68	166.66	4.88	205.96	2.00	166.60	2.07	-4.57	7.82	9.05	120.31	3.51	MWD_M	None
69	168.66	4.99	208.02	2.00	168.59	2.24	-4.72	7.74	9.07	121.39	3.18	MWD_M	None
70	170.66	5.05	210.33	2.00	170.59	2.42	-4.87	7.65	9.07	122.49	3.21	MWD_M	None
71	172.66	5.21	212.62	2.00	172.58	2.60	-5.03	7.56	9.08	123.62	3.96	MWD_M	None
72	174.66	5.26	214.97	2.00	174.57	2.78	-5.18	7.46	9.08	124.77	3.36	MWD_M	None
73	176.66	5.38	216.71	2.00	176.56	2.96	-5.33	7.35	9.08	125.94	3.06	MWD_M	None
74	178.66	5.47	218.25	2.00	178.55	3.15	-5.48	7.24	9.08	127.14	2.61	MWD_M	None
75	180.66	5.46	220.58	2.00	180.54	3.33	-5.63	7.11	9.07	128.34	3.39	MWD_M	None
76	182.66	5.57	222.21	2.00	182.53	3.52	-5.77	6.99	9.06	129.55	2.92	MWD_M	None
77	184.66	5.51	224.72	2.00	184.52	3.70	-5.91	6.85	9.05	130.77	3.80	MWD_M	None
78	187.46	5.48	227.37	2.80	187.31	3.96	-6.10	6.66	9.03	132.47	2.78	MWD_M	None
79	196.67	5.54	228.80	9.21	196.48	4.78	-6.69	6.00	8.99	138.09	0.50	MWD_M	None
80	209.16	5.89	229.07	12.49	208.91	5.94	-7.50	5.07	9.05	145.98	0.86	MWD_M	None
81	217.66	6.33	225.20	8.50	217.36	6.79	-8.12	4.40	9.24	151.53	2.16	MWD_M	None
82	227.85	7.48	218.96	10.19	227.47	7.97	-9.03	3.59	9.72	158.34	4.10	MWD_M	None
83	251.74	8.80	209.91	23.89	251.12	11.32	-11.83	1.70	11.95	171.83	2.34	MWD_M	None
84	267.36	9.50	202.96	15.62	266.55	13.80	-14.05	0.60	14.06	177.55	2.55	MWD_M	None
85	281.30	9.77	197.69	13.94	280.29	16.11	-16.23	-0.21	16.24	180.73	2.02	MWD_M	None
86	310.66	9.68	198.83	29.36	309.23	21.01	-20.94	-1.76	21.02	184.81	0.22	MWD_M	None
87	339.16	9.77	199.97	28.50	337.32	25.78	-25.48	-3.36	25.70	187.51	0.23	MWD_M	None
88	369.16	10.73	198.83	30.00	366.84	31.07	-30.52	-5.13	30.95	189.54	1.00	MWD_M	None
89	397.59	12.23	198.57	28.43	394.70	36.67	-35.88	-6.95	36.55	190.96	1.61	MWD_M	None
90	428.70	13.90	198.57	31.11	425.00	43.62	-42.55	-9.18	43.53	192.18	1.64	MWD_M	None
91	456.74	14.08	198.48	28.04	452.21	50.32	-48.97	-11.34	50.27	193.04	0.20	MWD_M	None
92	486.51	13.55	199.01	29.77	481.12	57.35	-55.71	-13.62	57.35	193.74	0.56	MWD_M	None
93	511.01	14.08	199.10	24.50	504.91	63.14	-61.23	-15.53	63.17	194.23	0.66	MWD_M	None
94	544.75	14.60	200.15	33.74	537.60	71.42	-69.11	-18.34	71.50	194.86	0.53	MWD_M	None
95	573.45	14.78	200.06	28.70	565.36	78.65	-75.94	-20.84	78.75	195.35	0.19	MWD_M	None
96	584.77	14.87	200.33	11.32	576.30	81.52	-78.66	-21.84	81.63	195.52	0.31	MWD_M	None
97	625.93	15.90	204.02	41.16	615.99	92.39	-88.76	-25.97	92.48	196.31	1.05	MWD_M	None
98	655.19	16.22	209.88	29.26	644.11	100.48	-95.97	-29.64	100.44	197.16	1.72	MWD_M	None
99	684.66	15.92	210.09	29.47	672.43	108.63	-103.03	-33.72	108.41	198.12	0.32	MWD_M	None
100	713.95	16.16	209.41	29.29	700.58	116.71	-110.06	-37.73	116.35	198.92	0.32	MWD_M	None
101	743.19	15.68	208.22	29.24	728.70	124.73	-117.08	-41.60	124.25	199.56	0.61	MWD_M	None
102	772.40	14.98	208.55	29.21	756.87	132.45	-123.88	-45.27	131.89	200.07	0.74	MWD_M	None
103	801.40	14.91	209.56	29.00	784.89	139.92	-130.42	-48.90	139.28	200.55	0.28	MWD_M	None
104	830.63	14.94	208.77	29.23	813.13	147.45	-136.99	-52.57	146.73	200.99	0.21	MWD_M	None
105	859.76	15.02	208.82	29.13	841.27	154.97	-143.59	-56.20	154.19	201.37	0.08	MWD_M	None
106	889.23	14.88	208.70	29.47	869.74	162.57	-150.25	-59.85	161.74	201.72	0.15	MWD_M	None
107	918.51	14.66	208.30	29.28	898.06	170.04	-156.81	-63.42	169.15	202.02	0.25	MWD_M	None
108	947.98	14.89	209.02	29.47	926.55	177.55	-163.41	-67.02	176.62	202.30	0.30	MWD_M	None
109	977.14	14.96	209.35	29.16	954.73	185.06	-169.96	-70.68	184.08	202.58	0.12	MWD_M	None
110	1006.32	14.71	208.53	29.18	982.93	192.52	-176.50	-74.30	191.50	202.83	0.34	MWD_M	None
111	1035.66	14.82	209.66	29.34	1011.31	200.00	-183.04	-77.93	198.94	203.06	0.32	MWD_M	None
112	1064.89	14.66	209.55	29.23	1039.57	207.43	-189.50	-81.61	206.33	203.30	0.17	MWD_M	None
113	1094.20	14.74	211.09	29.31	1067.92	214.85	-195.92	-85.36	213.71	203.54	0.41	MWD_M	None
114	1123.53	14.71	211.77	29.33	1096.29	222.29	-202.28	-89.25	221.10	203.81	0.18	MWD_M	None
115	1152.85	15.04	212.46	29.32	1124.63	229.79	-208.66	-93.25	228.55	204.08	0.39	MWD_M	None
116	1182.12	14.69	209.57	29.27	1152.92	237.28	-215.09	-97.12	236.00	204.30	0.85	MWD_M	None
117	1211.30	14.68	206.12	29.18	1181.15	244.67	-221.63	-100.58	243.38	204.41	0.91	MWD_M	None
118	1240.74	14.15	206.77	29.44	1209.66	252.00	-228.19	-103.84	250.70	204.47	0.57	MWD_M	None
119	1269.92	13.90	210.27	29.18	1237.97	259.07	-234.40	-107.21	257.76	204.58	0.92	MWD_M	None
120	1299.50	13.73	213.99	29.58	1266.70	266.10	-240.38	-110.97	264.76	204.78	0.93	MWD_M	None
121	1328.69	13.96	212.17	29.19	1295.04	273.05	-246.23	-114.78	271.67	204.99	0.51	MWD_M	None
122	1357.81	14.35	210.06	29.12	1323.27	280.15	-252.33	-118.46	278.75	205.15	0.68	MWD_M	None
123	1387.06	14.47	208.60	29.25	1351.60	287.42	-258.68	-122.02	286.01	205.25	0.40	MWD_M	None
124	1416.40	14.49	205.63	29.34	1380.01	294.76	-265.20	-125.36	293.34	205.30	0.77	MWD_M	None
125	1445.66	14.27	203.93	29.26	1408.36	302.02	-271.80	-128.41	300.61	205.29	0.50	MWD_M	None
126	1474.99	14.64	207.57	29.33	1436.76	309.33	-278.39	-131.59	307.92	205.30	1.02	MWD_M	None
127	1504.27	14.41	209.48	29.28	1465.10	316.67	-284.84	-135.10	315.25	205.37	0.55	MWD_M	None
128	1533.67	14.42	207.32	29.40	1493.58	323.99	-291.28	-138.58	322.56	205.44	0.56	MWD_M	None
129	1562.71	14.32	206.77	29.04	1521.71	331.20	-297.70	-141.85	329.77	205.48	0.18	MWD_M	None
130	1592.18	14.27	205.46	29.47	1550.27	338.47	-304.23	-145.06	337.04	205.49	0.34	MWD_M	None
131	1621.56	15.02	205.25	29.38	1578.69	345.90	-310.94	-148.24	344.47	205.49	0.78	MWD_M	None
132	1650.85	14.85	205.80	29.29	1606.99	353.44	-317.76	-151.49	352.02	205.49	0.23	MWD_M	None
133	1680.39	14.93	206.81	29.54	1635.54	361.03	-324.56	-154.85	359.61	205.51	0.28	MWD_M	None
134	1709.10	15.86	206.11	28.71	1663.22	368.65	-331.38	-158.25	367.23	205.53	1.01	MWD_M	None
135	1738.52	15.34	203.39	29.42	1691.55	376.55	-338.56	-161.56	375.14	205.51	0.93	MWD_M	None

136	1767.97	15.56	201.42	29.45	1719.94	384.37	-345.82	-164.55	382.97	205.45	0.59	MWD_M	None
137	1797.30	15.79	203.69	29.33	1748.18	392.27	-353.13	-167.59	390.88	205.39	0.68	MWD_M	None
138	1826.72	15.68	205.51	29.42	1776.50	400.24	-360.39	-170.91	398.86	205.37	0.52	MWD_M	None
139	1856.15	15.77	207.85	29.43	1804.83	408.21	-367.51	-174.49	406.83	205.40	0.66	MWD_M	None
140	1885.47	15.47	210.31	29.32	1833.06	416.10	-374.41	-178.33	414.71	205.47	0.76	MWD_M	None
141	1914.60	15.71	208.22	29.13	1861.12	423.92	-381.24	-182.15	422.52	205.54	0.64	MWD_M	None
142	1943.73	15.58	205.83	29.13	1889.17	431.78	-388.24	-185.72	430.37	205.57	0.69	MWD_M	None
143	1973.09	15.56	203.40	29.36	1917.46	439.65	-395.40	-189.00	438.25	205.55	0.68	MWD_M	None
144	2002.63	15.54	205.83	29.54	1945.92	447.56	-402.60	-192.30	446.17	205.53	0.67	MWD_M	None
145	2031.86	15.58	209.23	29.23	1974.07	455.39	-409.55	-195.92	454.00	205.57	0.95	MWD_M	None
146	2061.17	15.43	212.43	29.31	2002.32	463.21	-416.27	-199.94	461.80	205.66	0.90	MWD_M	None
147	2090.40	15.47	215.54	29.23	2030.49	470.94	-422.73	-204.29	469.50	205.79	0.86	MWD_M	None
148	2119.77	15.10	213.93	29.37	2058.82	478.62	-429.09	-208.70	477.15	205.94	0.58	MWD_M	None
149	2148.86	15.06	211.56	29.09	2086.91	486.15	-435.45	-212.79	484.67	206.04	0.65	MWD_M	None
150	2178.21	15.05	209.16	29.35	2115.26	493.76	-442.03	-216.65	492.27	206.11	0.65	MWD_M	None
151	2207.53	15.15	206.46	29.32	2143.56	501.39	-448.78	-220.21	499.90	206.14	0.74	MWD_M	None
152	2236.73	15.13	203.55	29.20	2171.75	509.01	-455.69	-223.43	507.52	206.12	0.79	MWD_M	None
153	2265.88	15.16	202.00	29.15	2199.89	516.60	-462.71	-226.38	515.12	206.07	0.42	MWD_M	None
154	2295.20	15.30	205.05	29.32	2228.18	524.29	-469.77	-229.45	522.82	206.03	0.85	MWD_M	None
155	2324.26	15.12	207.01	29.06	2256.22	531.91	-476.62	-232.80	530.44	206.03	0.57	MWD_M	None
156	2353.69	14.98	208.10	29.43	2284.64	539.55	-483.40	-236.33	538.08	206.05	0.33	MWD_M	None
157	2382.99	14.97	208.38	29.30	2312.95	547.12	-490.07	-239.92	545.64	206.08	0.08	MWD_M	None
158	2412.25	14.90	210.09	29.26	2341.22	554.66	-496.65	-243.60	553.17	206.13	0.46	MWD_M	None
159	2441.61	14.90	210.72	29.36	2369.59	562.19	-503.16	-247.42	560.70	206.18	0.17	MWD_M	None
160	2470.87	15.14	212.27	29.26	2397.85	569.75	-509.62	-251.38	568.25	206.26	0.49	MWD_M	None
161	2499.77	15.34	211.52	28.90	2425.74	577.33	-516.07	-255.39	575.81	206.33	0.30	MWD_M	None
162	2529.30	15.41	207.80	29.53	2454.21	585.14	-522.88	-259.27	583.62	206.37	1.02	MWD_M	None
163	2558.69	15.28	203.33	29.39	2482.55	592.91	-529.89	-262.62	591.40	206.36	1.23	MWD_M	None
164	2579.00	15.20	202.50	20.31	2502.15	598.24	-534.80	-264.70	596.72	206.33	0.35	Proj. TD	

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Company:	ESSO Australia Pty Ltd	Schlumberger
Well:	CBA A33	
Field:	Halibut	
Rig:	ISDL 175	9.875 in. Section
State:	Victoria	
VISION Service 1:200 True Vertical Depth Recorded Mode Log		

