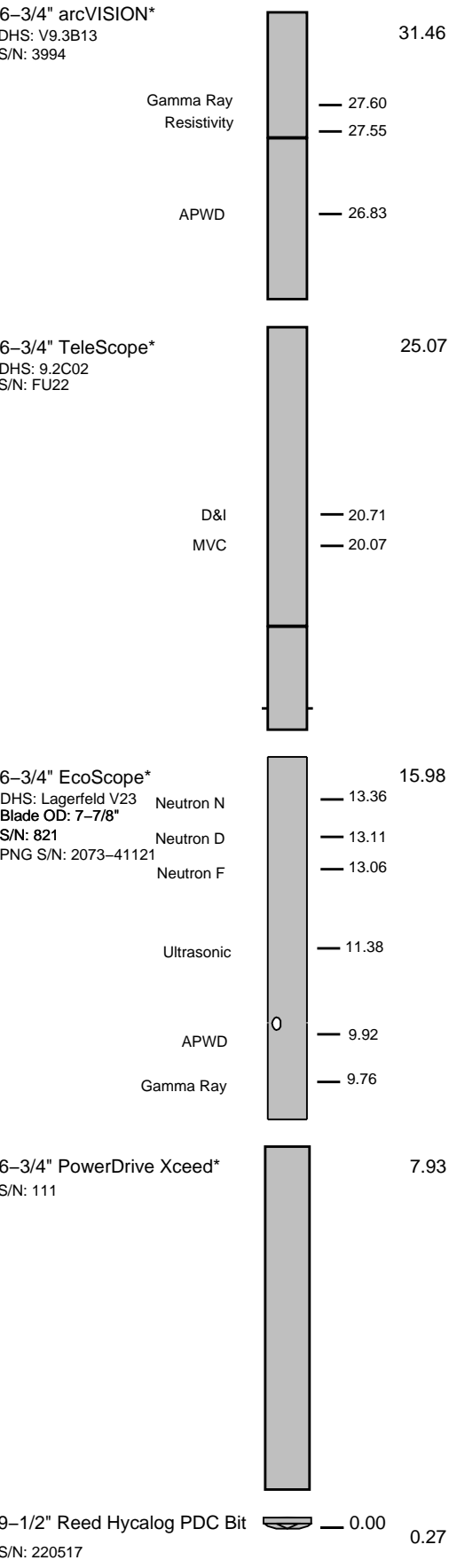


Potassium	%	n.a									
Environmental data											
GR											
Mud weight	ppg	10.8									
Bit size	in	9.50									
Resistivity											
Neutron porosity											
Hole Size	in	9.50									
Mud weight	ppg	10.8									
Temperature	°C	106.0									
Mud salinity	ppk	59.967									
Formation salinity		n.a									
Recording rate 1	SEC	6 (arcVISION)									
Recording rate 2	SEC	2 (EcoScope)									
Filtering GR		3 pts.									
Filtering density		3 pts.									
Filtering Neutron		3 pts.									
Company representative		R. Spence	M. Calicutt								
Anadrill personnel		M. Amarasena	J. Oldridge	M. Sihite	C. Soper	D.B. Khanh					

<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 RUN4 Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations											
REMARKS: RUN NUMBER 4 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 by using a limestone matrix density of 2.71 g/cm3 EcoScope stabilizer size 7-7/8" EcoScope was run sourceless EcosScope sourceless density run in realtime Bit size 9.5" POOH due to well TD											

EQUIPMENT DESCRIPTION											
RUN4											
DOWNHOLE EQUIPMENT											

DOWNHOLE EQUIPMENT



Maximum string diameter 9.50 in.
All lengths in Meters

Variable Name	Variable Description	Run Name & Value	
	Run Number		4
	General Information		
BHT_RM	Bottom Hole Temperature (RM)	DEGC	106.000
BSAL_RM	Mud Salinity (RM)	PPK	59.967
BS_RM	Bit Size (RM)	IN	9.500
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	60.000
MW_RM	Mud Weight (RM)	LB/G	10.800
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	6456.000
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	8.526
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.535
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	5.890
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	5.903
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.129
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	5.131
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.291
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.297
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	3.686
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.690
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed
ADHS	ARC Down Hole Software Version	----	No_Tx_Failed
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000
ANISO_COMPUTE	Anisotropy Computation Option	----	YES
APICG	ARC5 Gamma Ray Gain Factor	----	1.054
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	----	4
ATSN	ARC Tool Serial Number	----	3994
AZMF	Formation DIP Azimuth	DEG	0.000
BH_COMPUTE	Borehole Inversion Computation Option	----	YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.054
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 Coefficient (mA/g/degC)	----	0.000
INCLIN_C2	ARC Scale Second-order Coefficient (mA/g/degC)	----	0.000
INCLIN_C3	ARC Scale Third-order Coefficient (mA/g/degC)	----	0.000
INVAS_COMPUTE	Invasion Computation Option	----	YES
JSD_ARC	ARC Acquisition start date	----	09-Dec-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	3.747
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	-1.655
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-3.865
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	1.625
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	3.723
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	-1.635
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-3.858
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	1.642
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	3.743
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	-1.630

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	----	09-Dec-08
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	6.900
UNIFORM_COMPUTE	Uniform Rock Option	----	YES
VERS_ARC	ARC Down hole software version Number	----	2.300
WRK	to Report Potassium Concentration (RM)	----	K_by_Wgt_%
DVD			
-----	Parameters-----	Parameters-----	-----Sigma
-----	Parameters-----	Parameters-----	-----Sigma
ALPHA_DEN_OPT	Density Enhanced Vertical Resolution Processing Switch	----	NO
CHI_RM	Caliper High Limit from BS (RM)	IN	10.000
CLO_RM	Caliper Low Limit from BS (RM)	IN	-5.000
DTMUD	Delta-T for Mud (RM)	US/F	206.000
DTMUD_DH	Delta-T for Mud Downhole (RT)	US/F	227.400
DVDM DHS	DVDM Down Hole Software Version	US/F	227.400
DVDM_DATA_LTB	DVDM: Create An DVDM LTB Data File	----	NO
DVD_DATA_FIX	DVDM: Create A Corrected DVDM Time Data File	----	NO
DYN_IMAGE_OPT	Generate Dynamic Normalized Image?	----	YES
EDPTH	Wizard Process Stop Depth	----	50000
EN_WIZARD	Enable ARC Wizard Processing	----	NO
EVRL	EVR Process averaging number of samples (RM)	----	49
FWVN	Firmware Version Number	----	2.300
GCSE	Generalized Caliper Selection	----	BS
GR_CF	Gamma Ray Correction Factor	----	1.800
GR_O2COR_OPT	Enable Gamma Ray Oxygen Activation Correction	----	YES
IDQT	Image Derived Quality Threshold	----	2.000
IMAGE_MAX_DCRA	Image Density Caliper Right Scale	IN	8.000
IMAGE_MAX_IDDQ	Image Density Quality Right Scale	----	1.000
IMAGE_MAX_SPEF	Image PEF(Segment) Right Scale	----	6.000
IMAGE_MAX_SRHOB	Image RHOB(Segment) Right Scale	G/C3	2.650
IMAGE_MIN_DCRA	Image Density Caliper Left Scale	IN	2.000
IMAGE_MIN_IDDQ	Image Density Quality Left Scale	----	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	Acquisition start date	----	09-Dec-08
MATR	Rock Matrix for Neutron Porosity Corrections	----	LIMESTONE
NEU_DCOR_OPT	Density Correction Source for Neutron Processing	----	Neutron
NEU_FTUBE_OPT	Far Thermal Tube Selection	----	Both
NEU_PRESCOR_OPT	Pressure Correction Source for Neutron Processing	----	Annulus_Press
NEU_TEMPCOR_OPT	Temperature Correction Source for Neutron Processing	----	Tool_Temp
NTIK_SEL	Neutron Tick Channel Name	----	FAZ1
OACF	Oxygen Activation Correction Factor (RM)	----	8.000
PMUD	Potassium Concentration in Mud	----	0.000
RUN_DURATION_OP	Run Duration Type ?	----	Normal
SDPTH	Wizard Process Start Depth	----	100
SIG_PCOR_OPT	Porosity Correction Source for Sigma Processing	----	Best
SPEC_CSG_DEPTH	Casing Depth for Spectroscopy Processing	M	30.480
SPL_CLAY_MODEL	SpectroLith Clay Model	----	SUBARKOSE
SPL_MG_OPT	Magnesium Flag Switch ?	----	OFF
SPL_NL_COEFF	Non Linearity Coefficient for Downhole Spectroscopy Processing	----	147.000
SPL_SULFUR_MIN	SpectroLith Sulfur Mineral Option	----	PYRITE
STAB_SIZE	Stabilizer Size	IN	7.875
STOH	Top of Hole Sector	----	SECTOR_0
TRNO	Tool Run Number	----	4
TSNO	Tool Serial Number	----	821
WPPV	Water Phase as Percent of Total Volume in OBM	----	22.000
WPSL	Salinity of the Water Phase Emulsified within the OBM	PPK	272.576
WSDI	Window Size of Dynamic Normalization Image	M	4.572

Schlumberger Drilling & Measurements

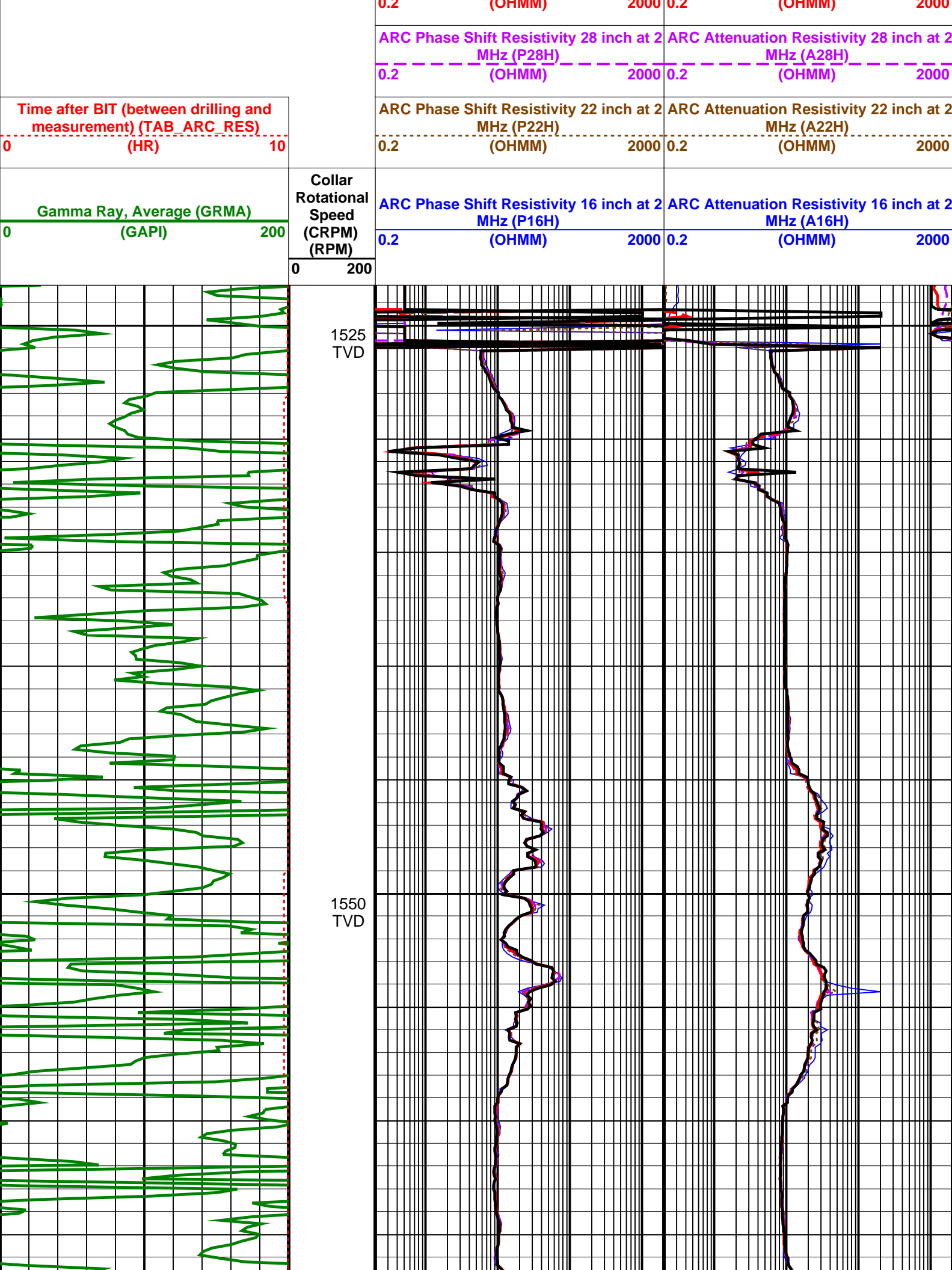
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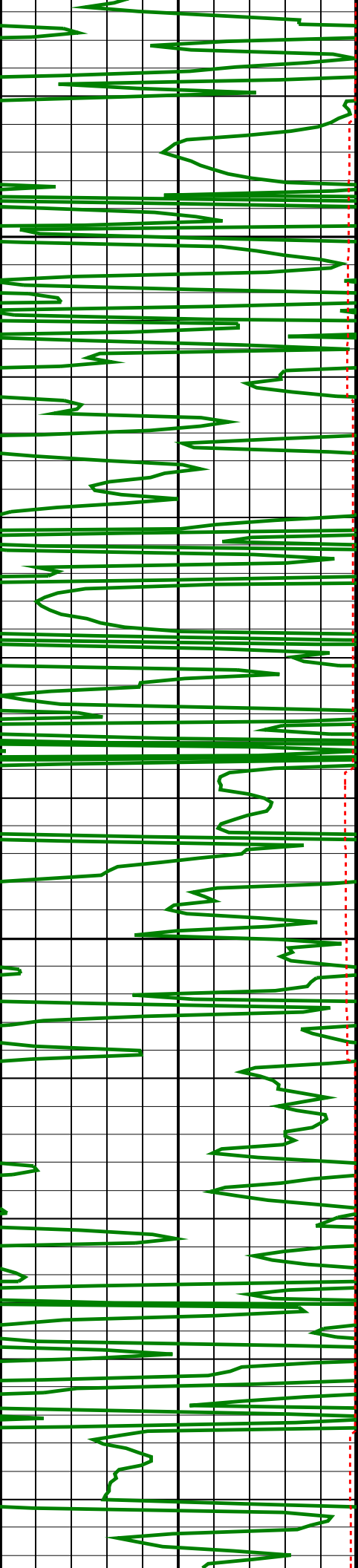
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Format: EcoScope Resistivity 2Mhz Vertical Scale: 1:200 Graphics File Created: 17-Dec-2008 09:08

ARC Phase Shift Resistivity 40 inch at 2 MHz (P40H)		ARC Attenuation Resistivity 40 inch at 2 MHz (A40H)	
0.2	(OHMM)	0.2	(OHMM)
2000		2000	
ARC Phase Shift Resistivity 34 inch at 2 MHz (P34H)		ARC Attenuation Resistivity 34 inch at 2 MHz (A34H)	
0.2	(OHMM)	0.2	(OHMM)
2000		2000	

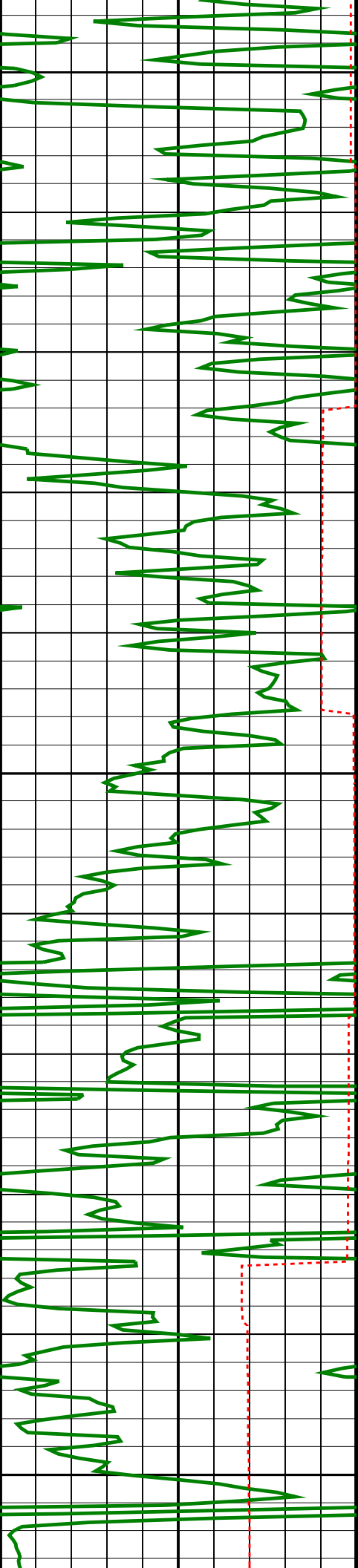




1575
TVD

1600
TVD

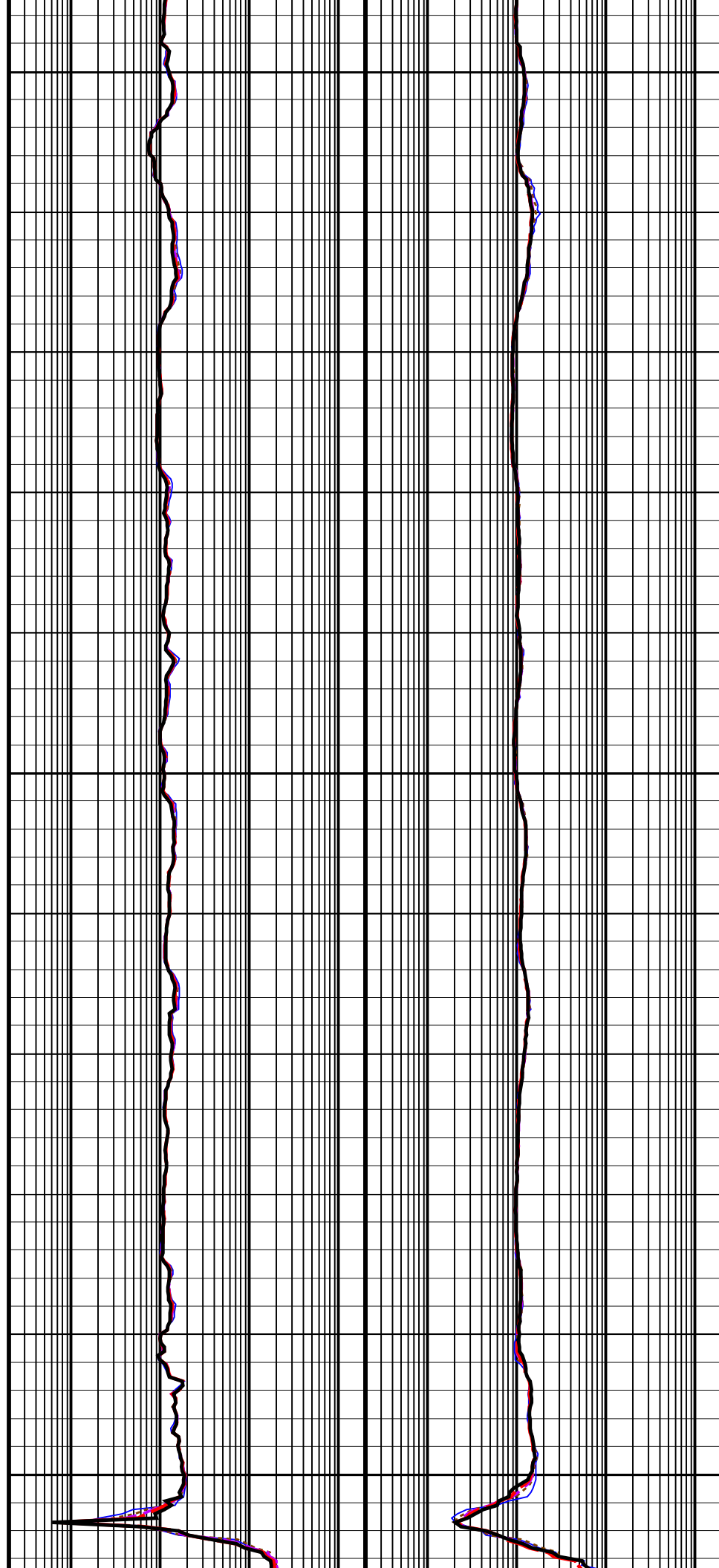


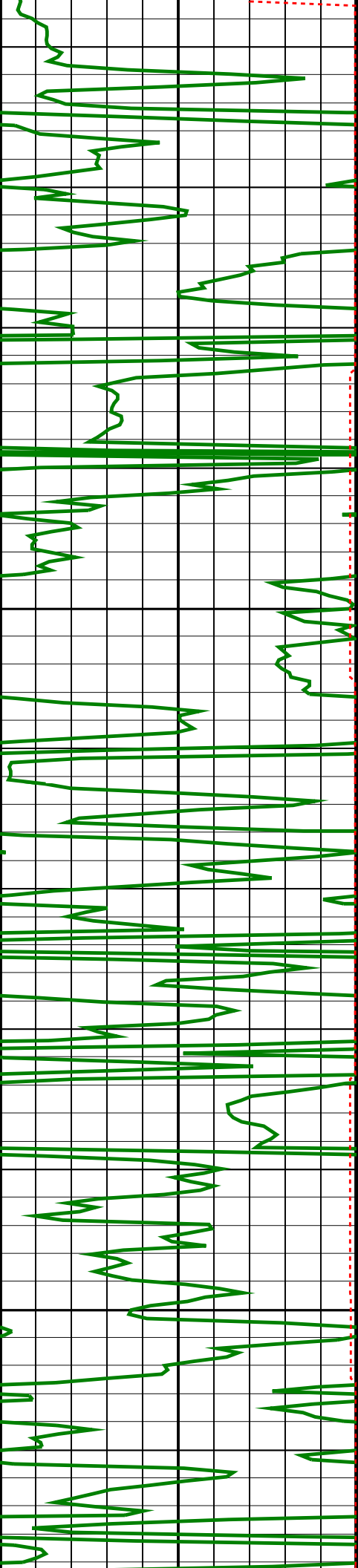


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TVD

1650
TVD

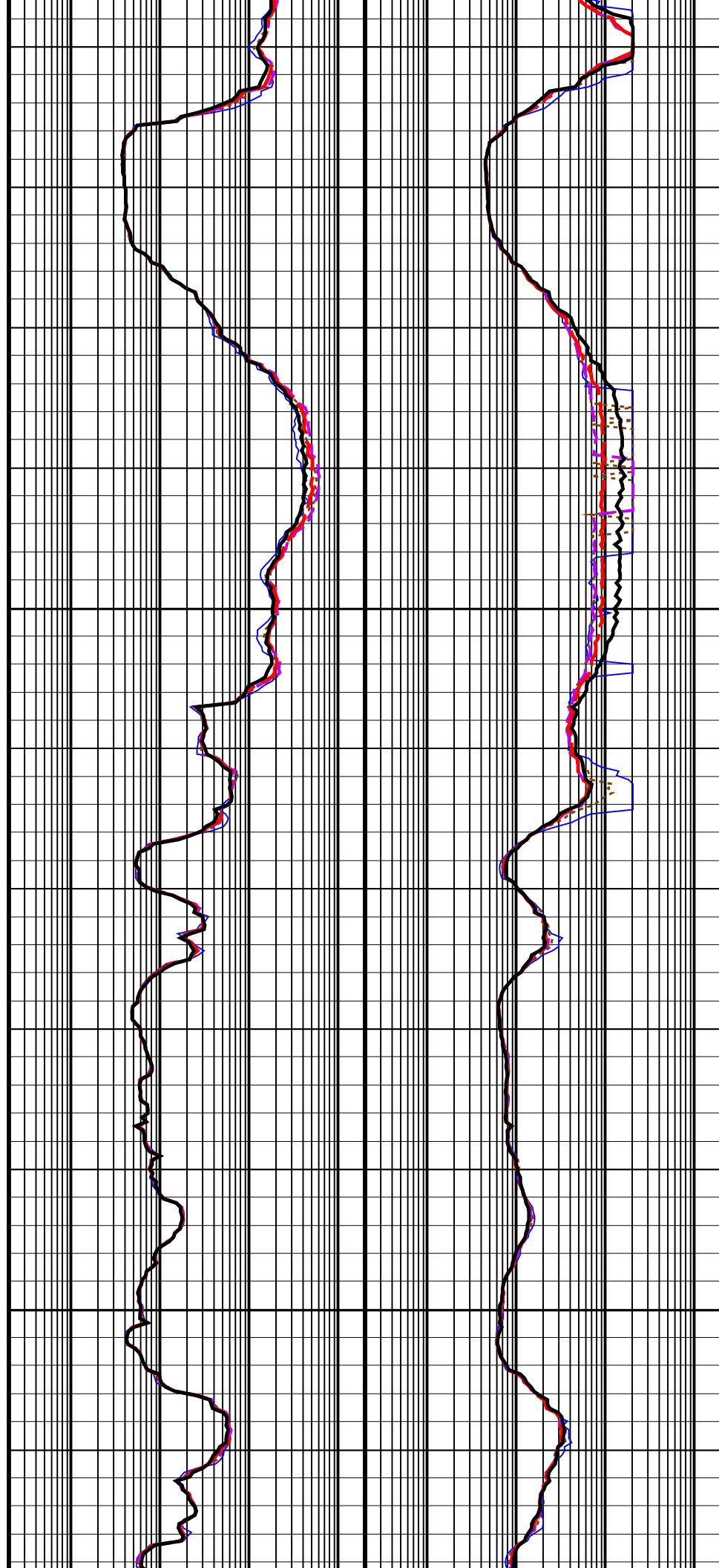
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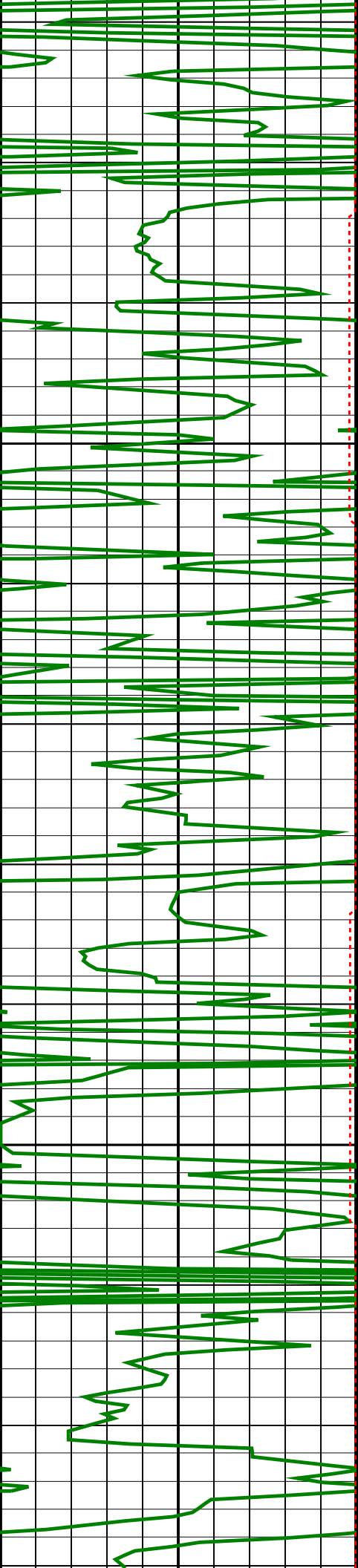




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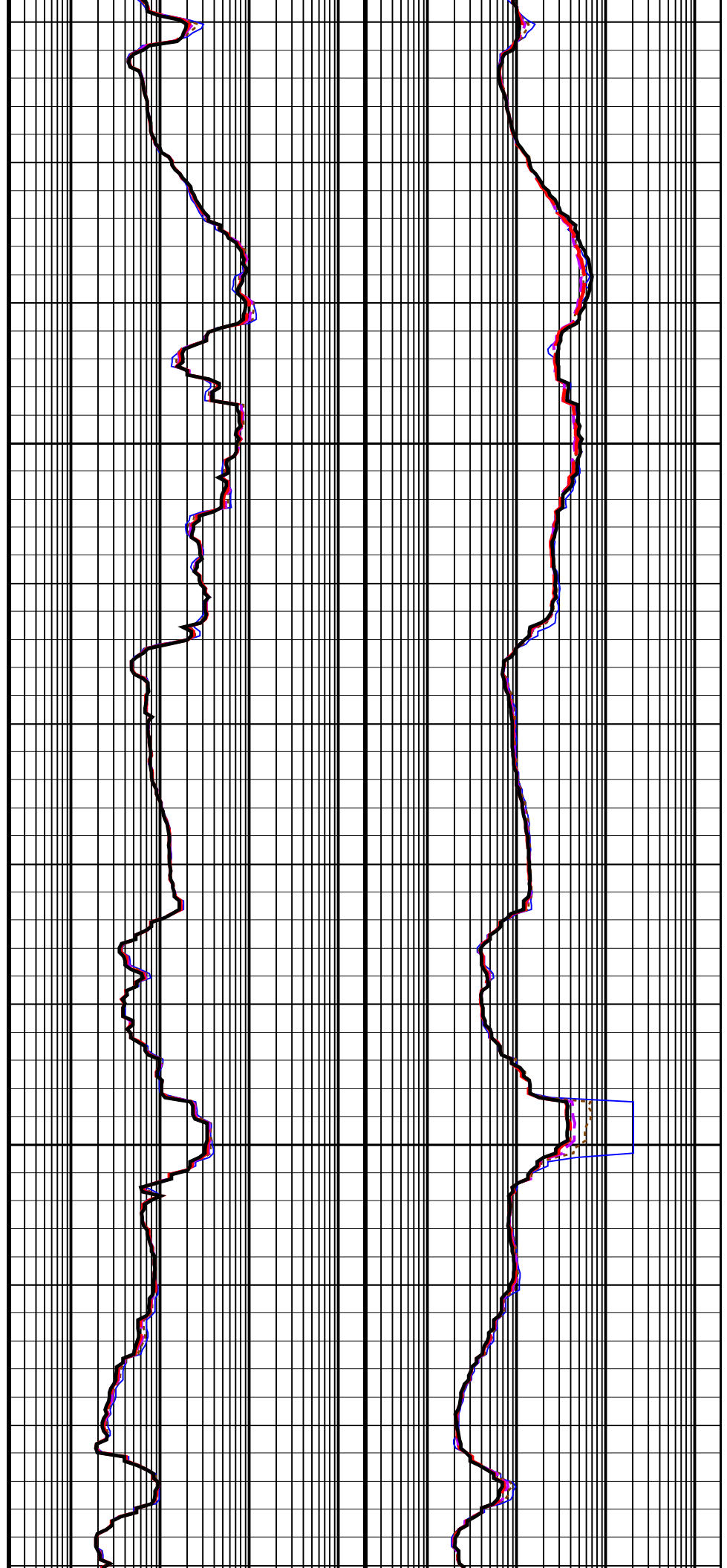
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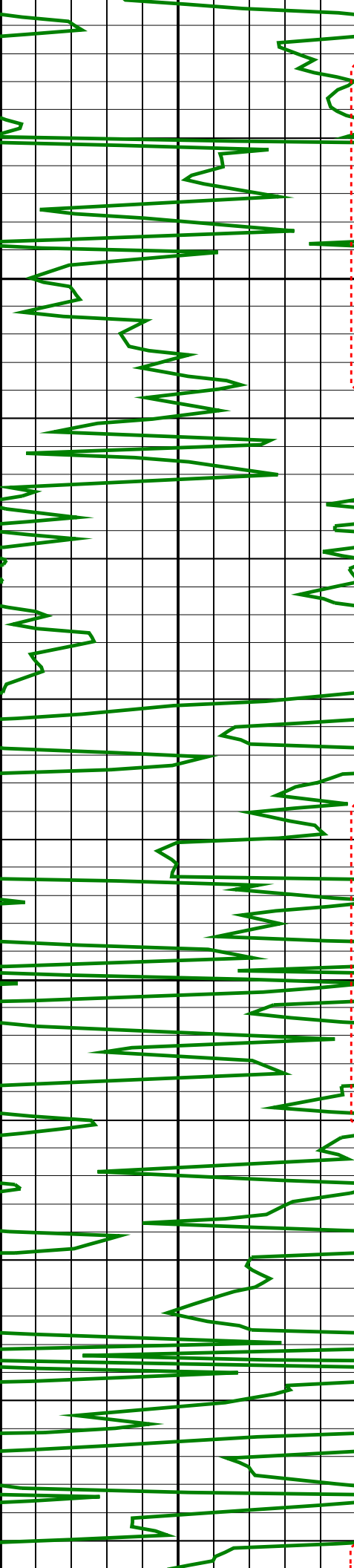




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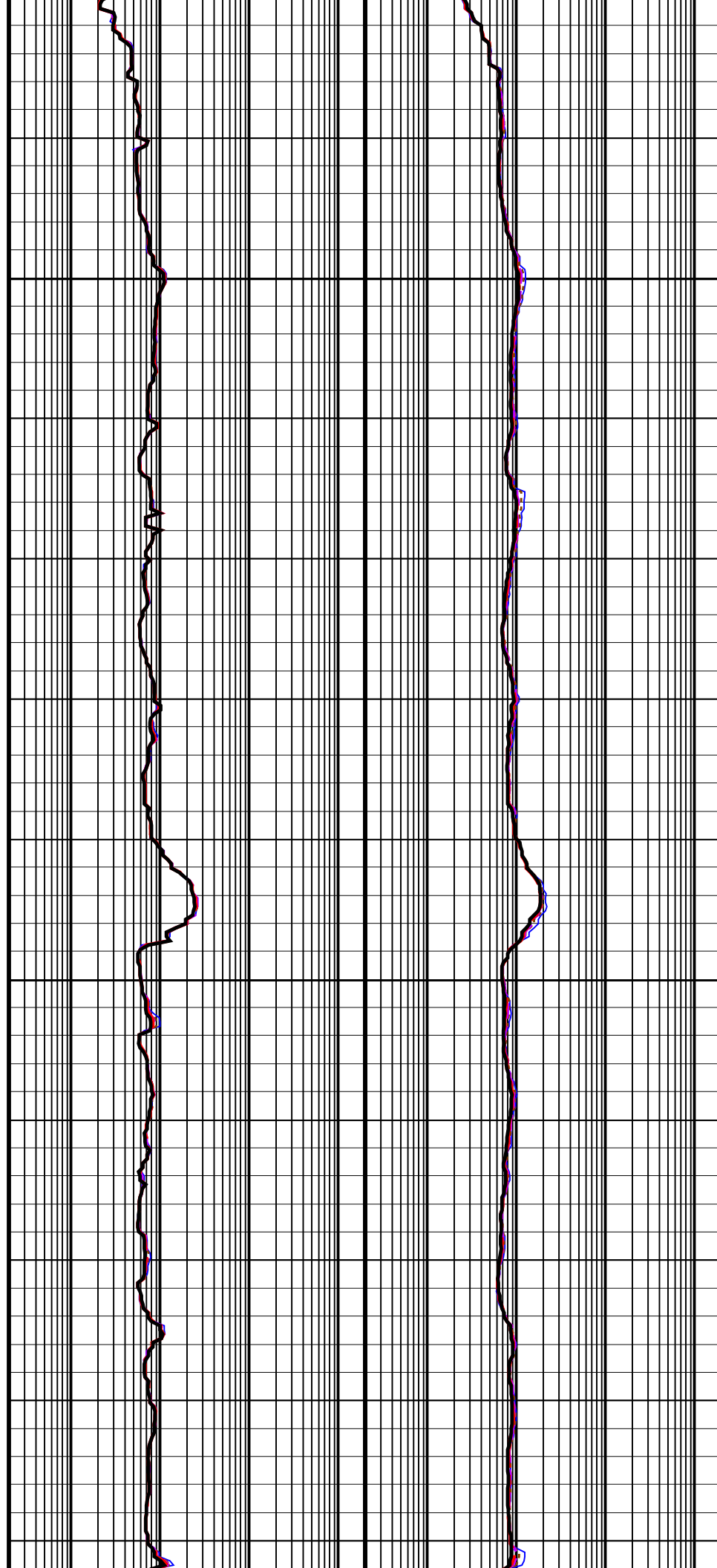
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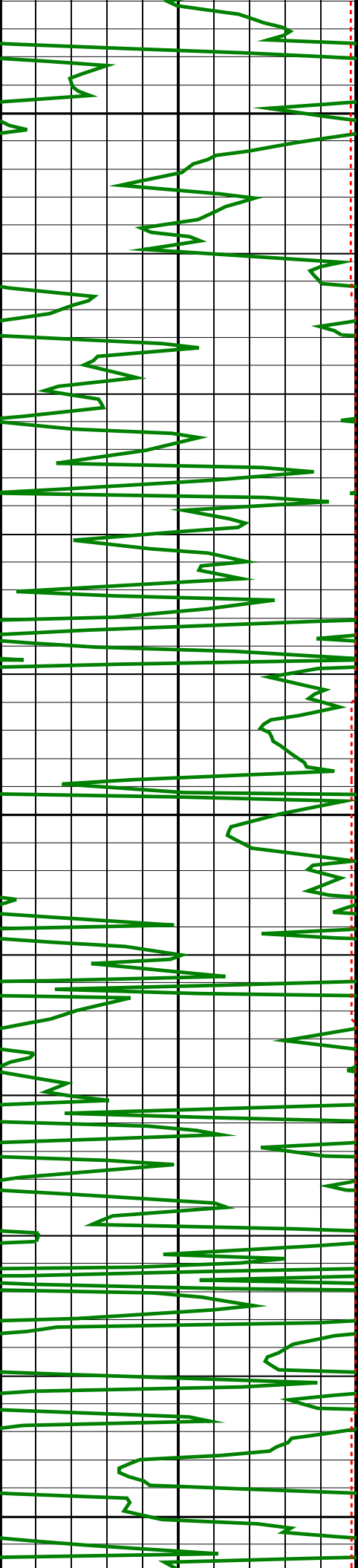




1800
TVD

1825
TVD

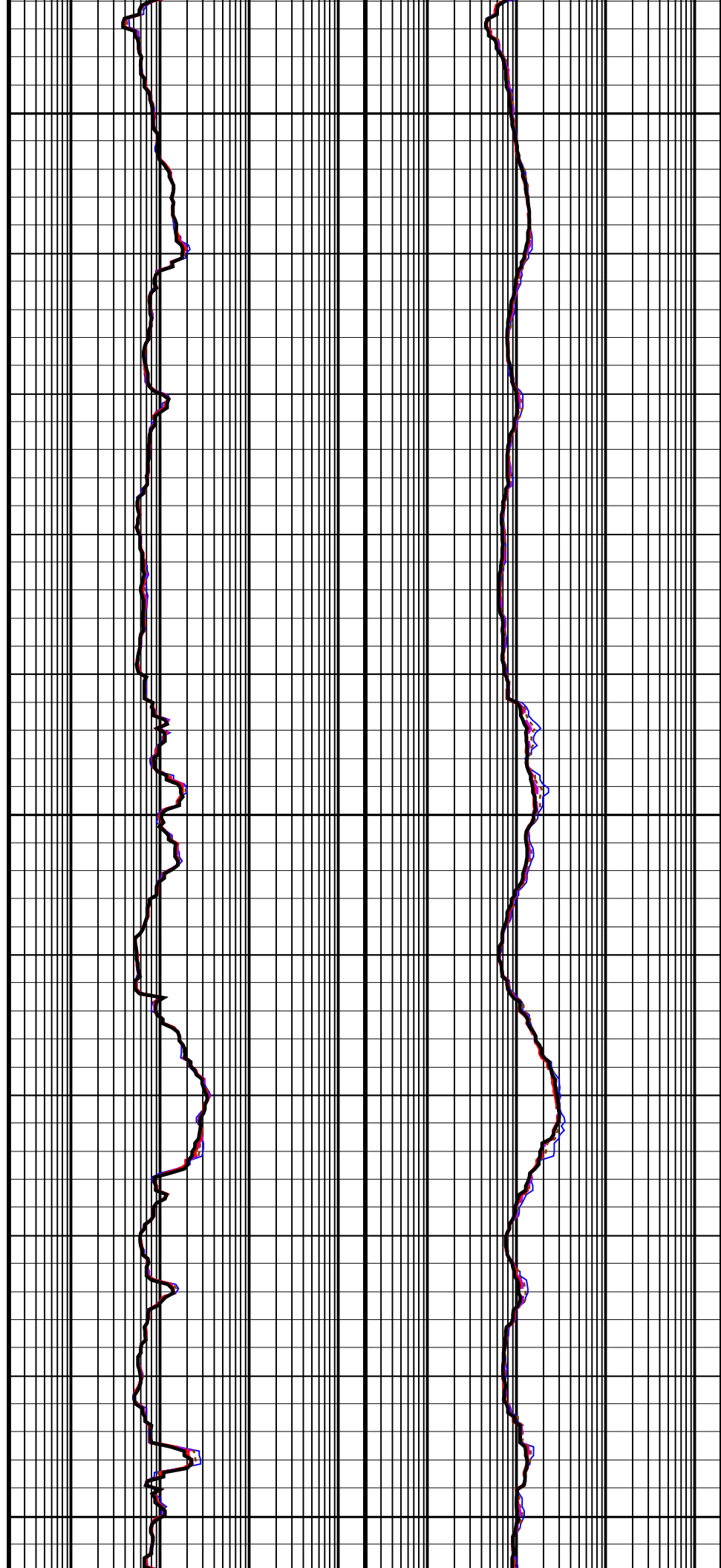


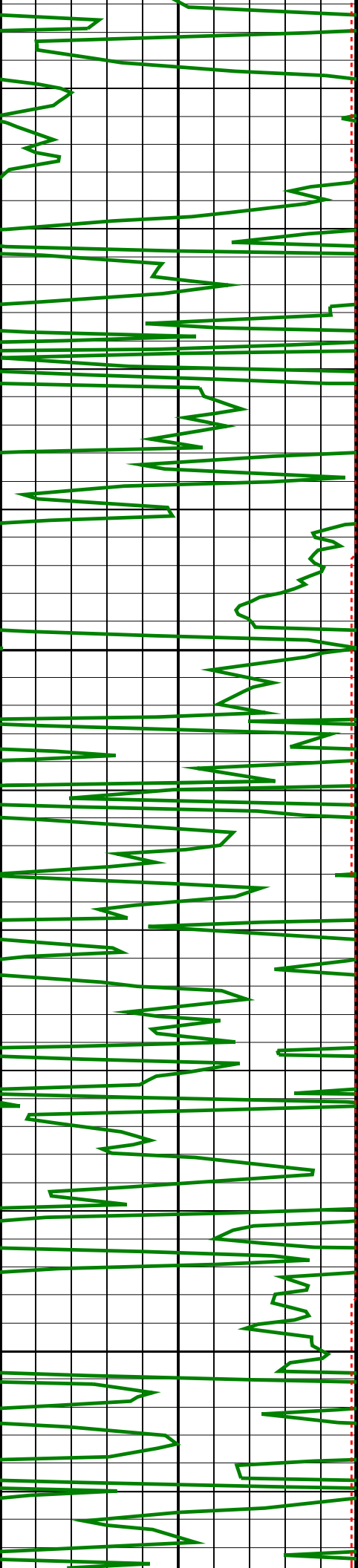


1850
TVD

1875
TVD

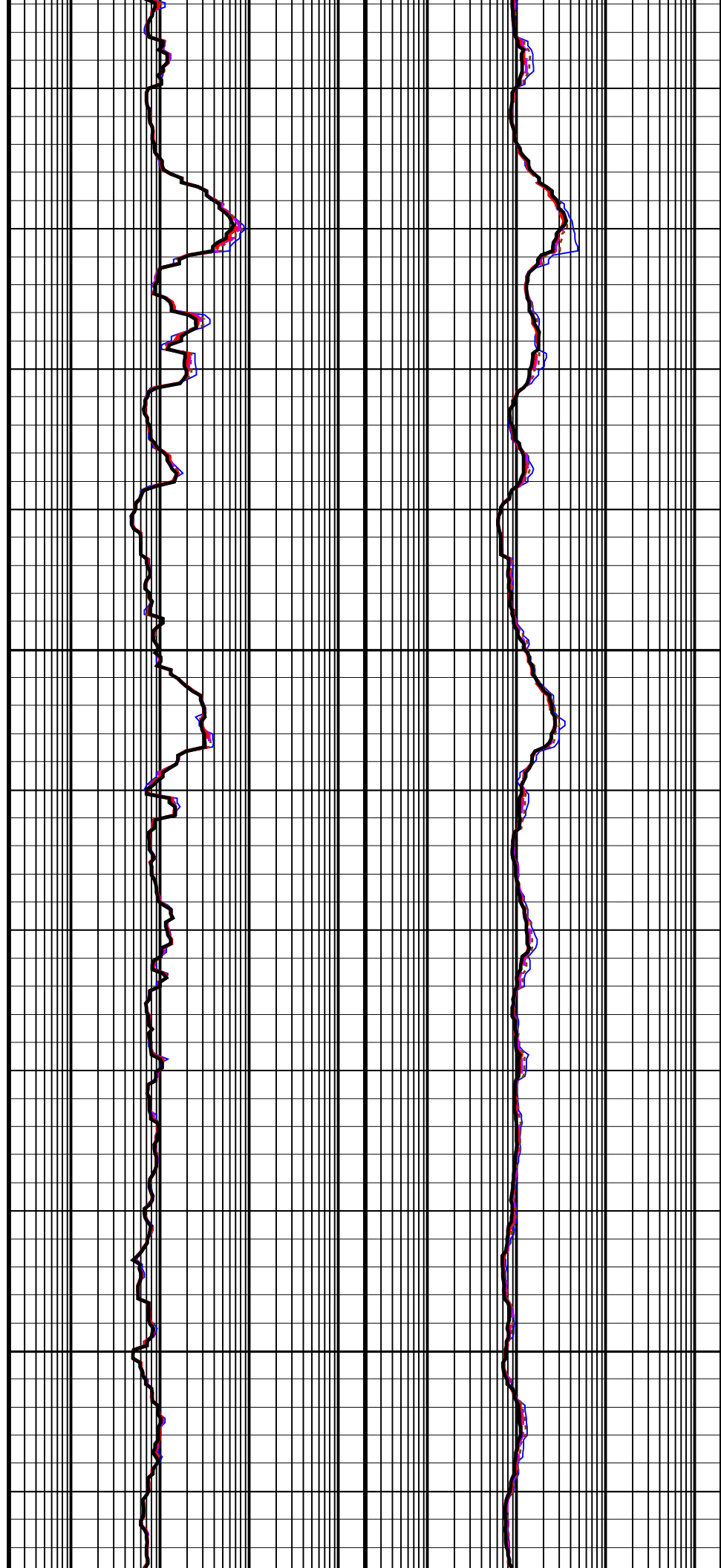
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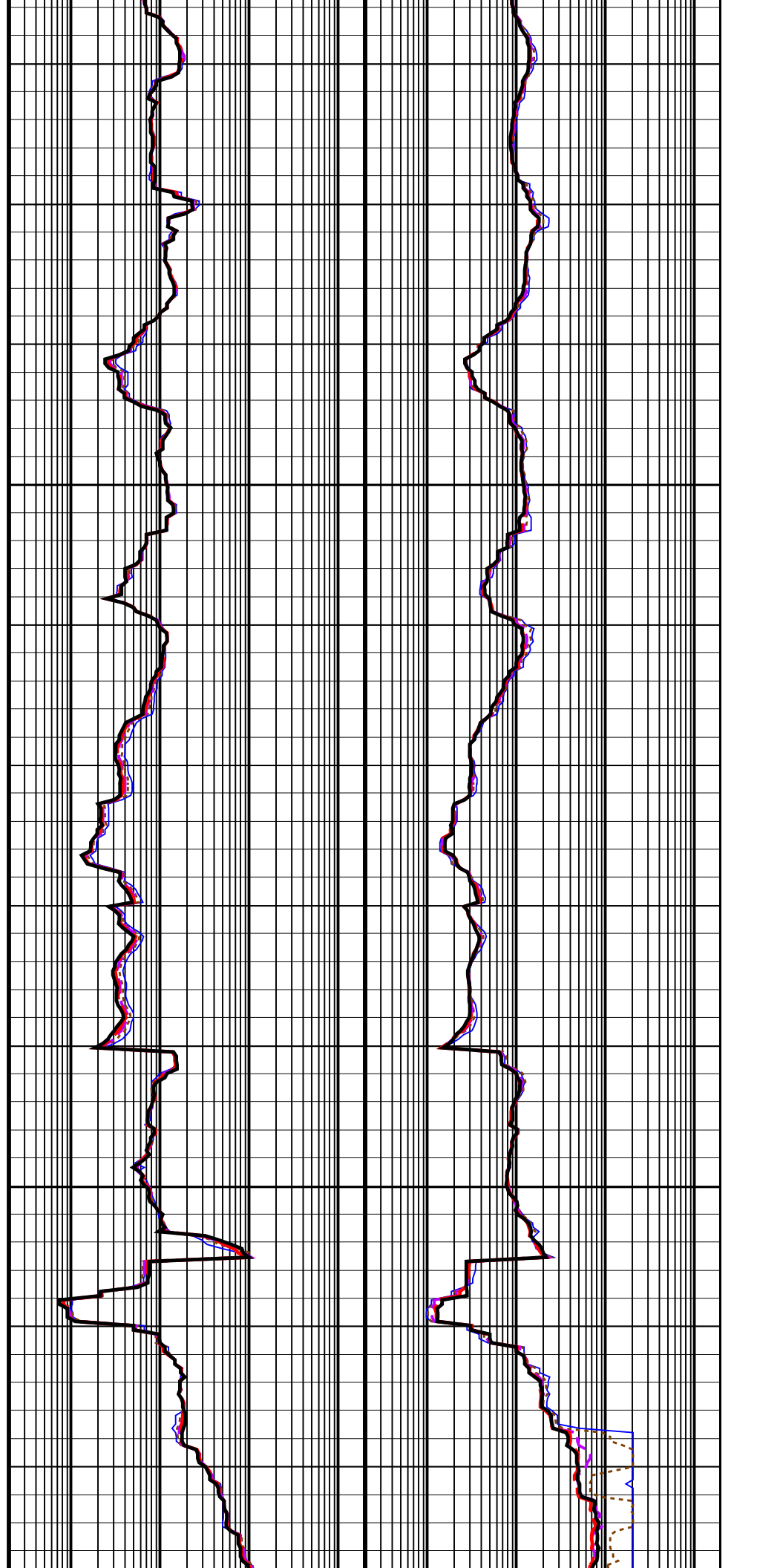
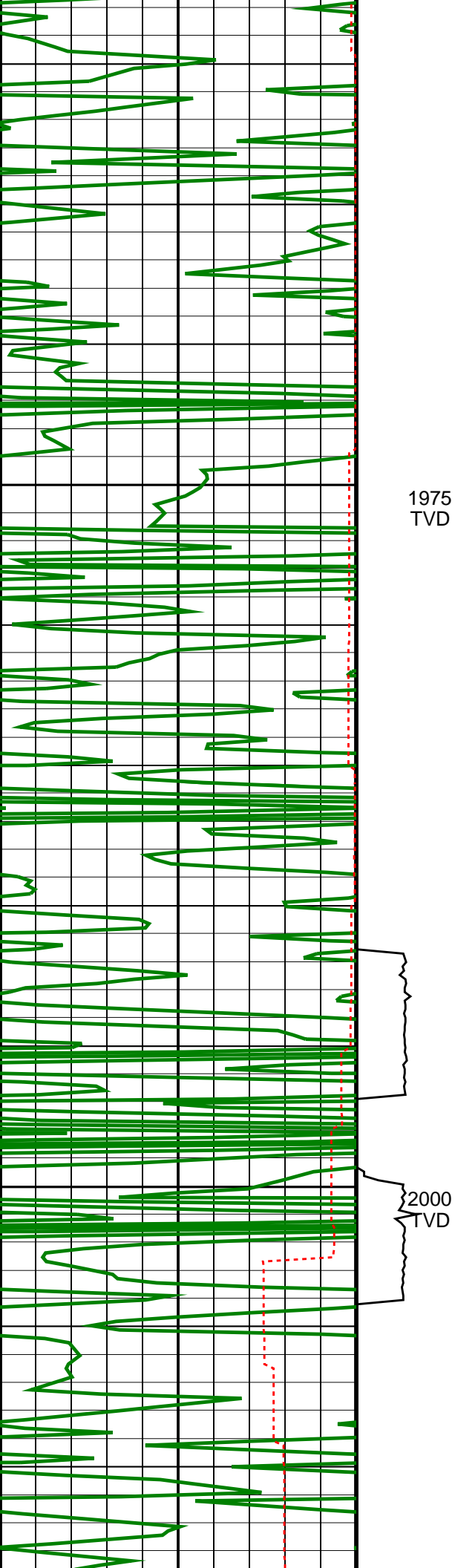


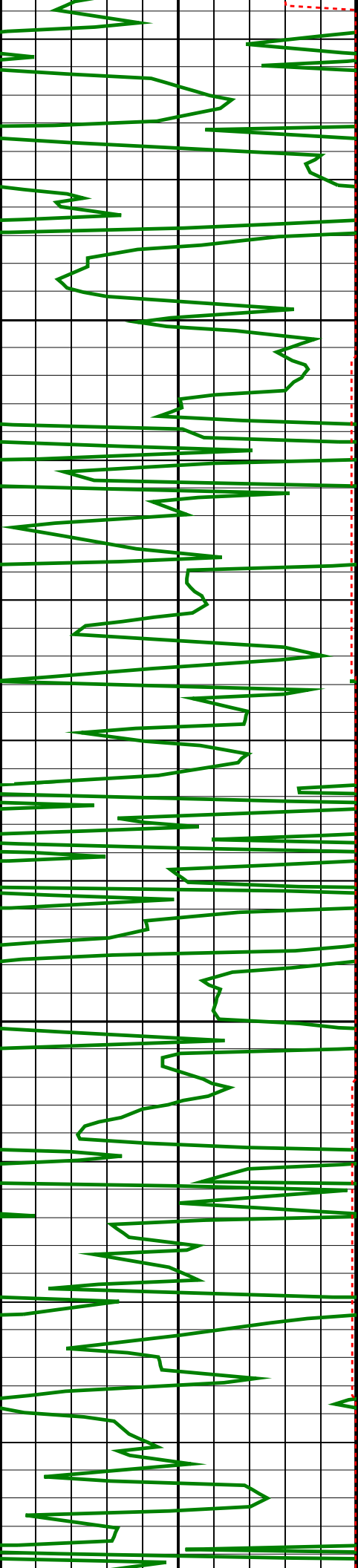


1925
TVD

1950
TVD

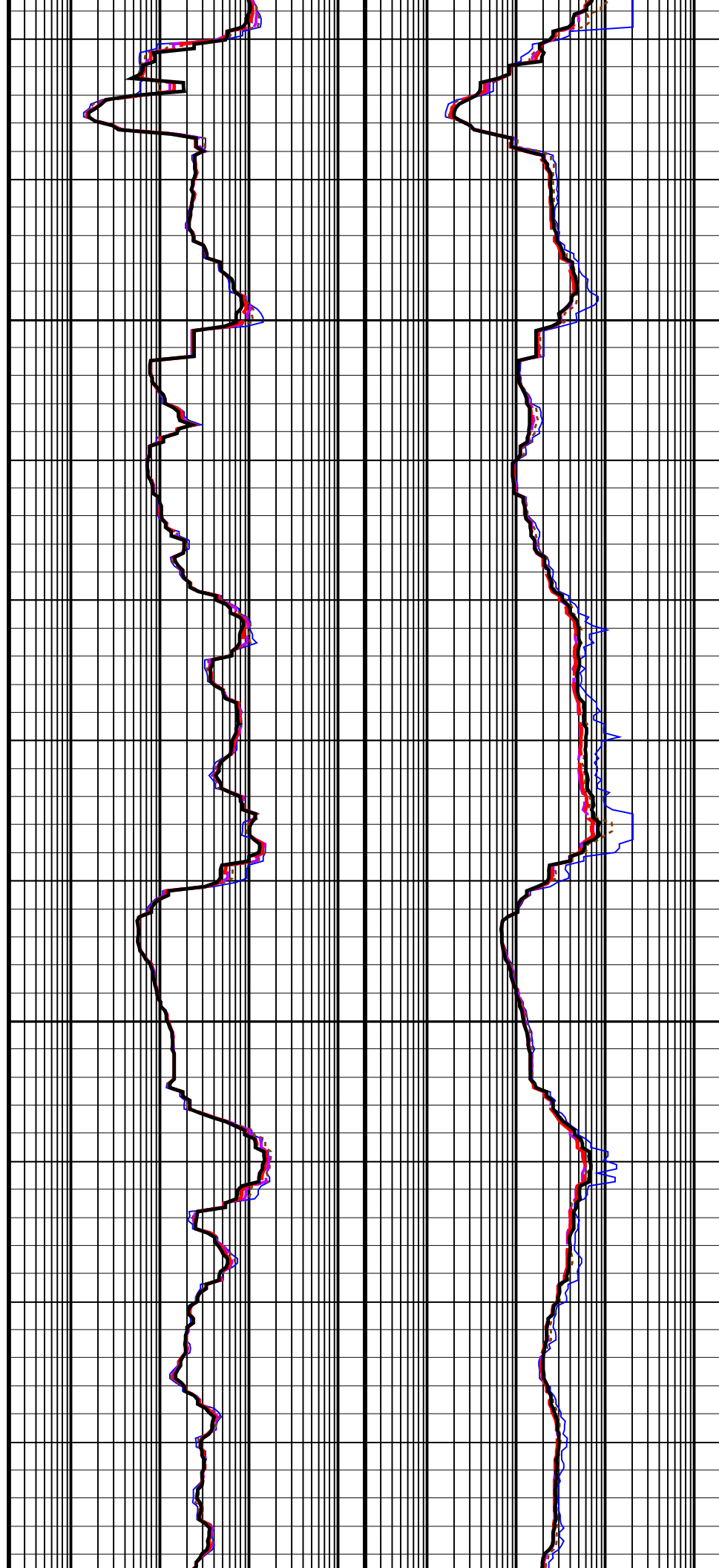


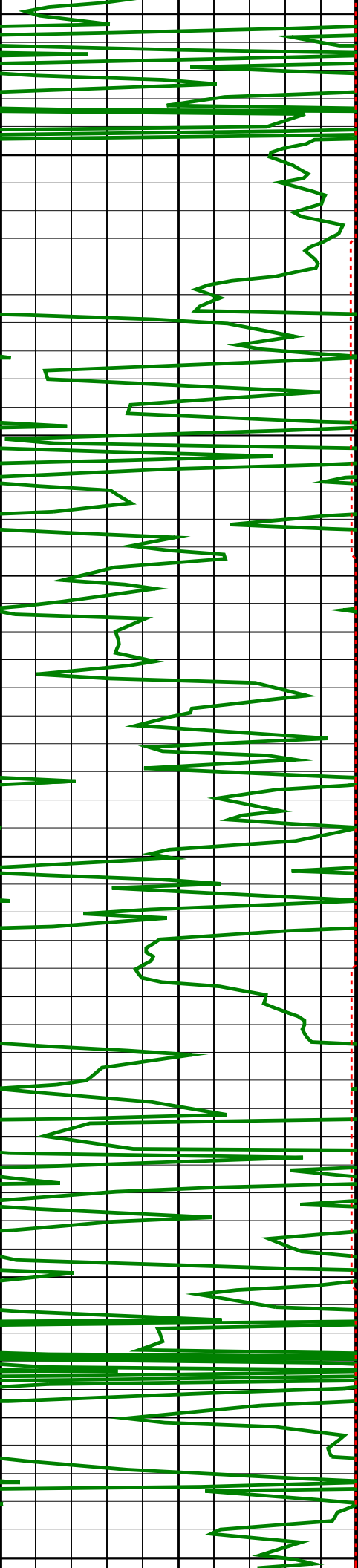




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TVD

2050
TVD

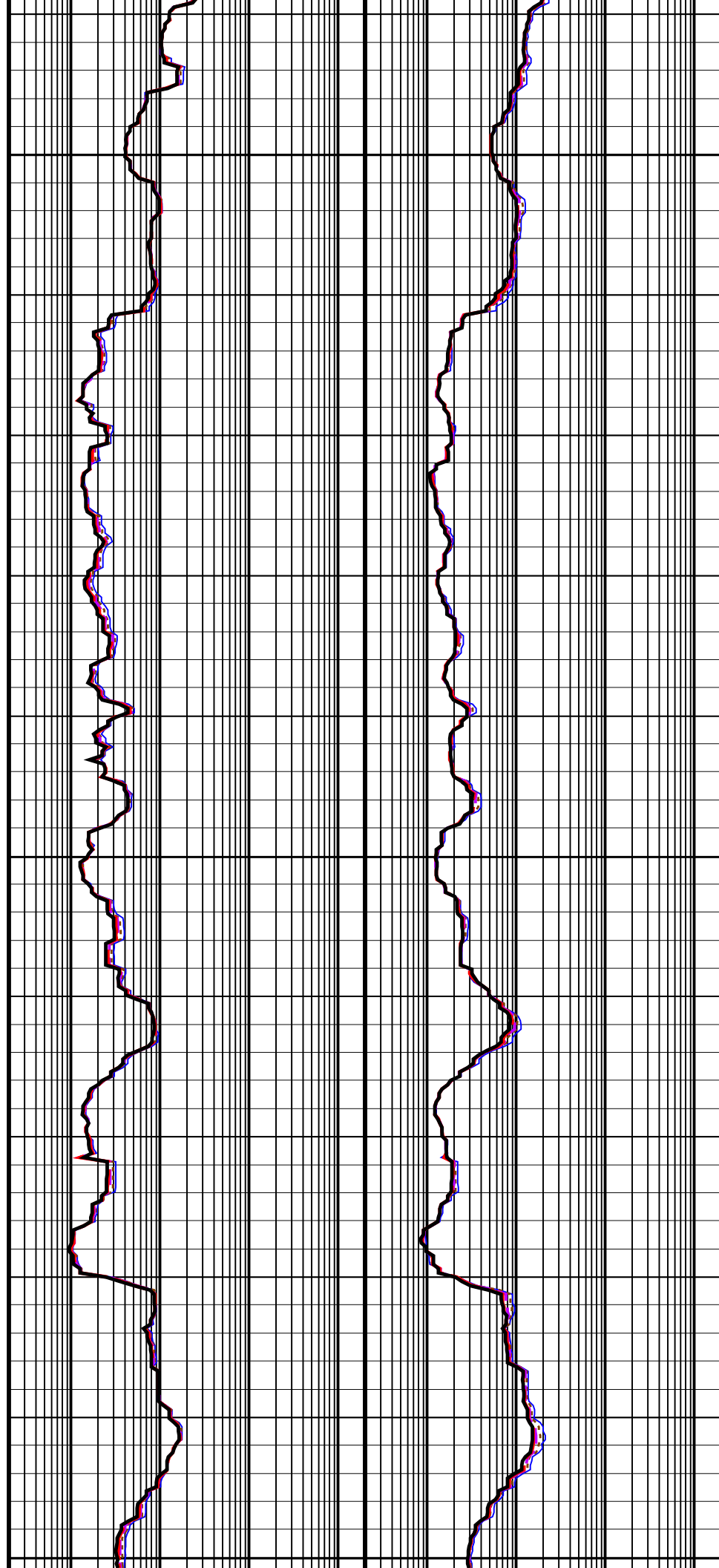


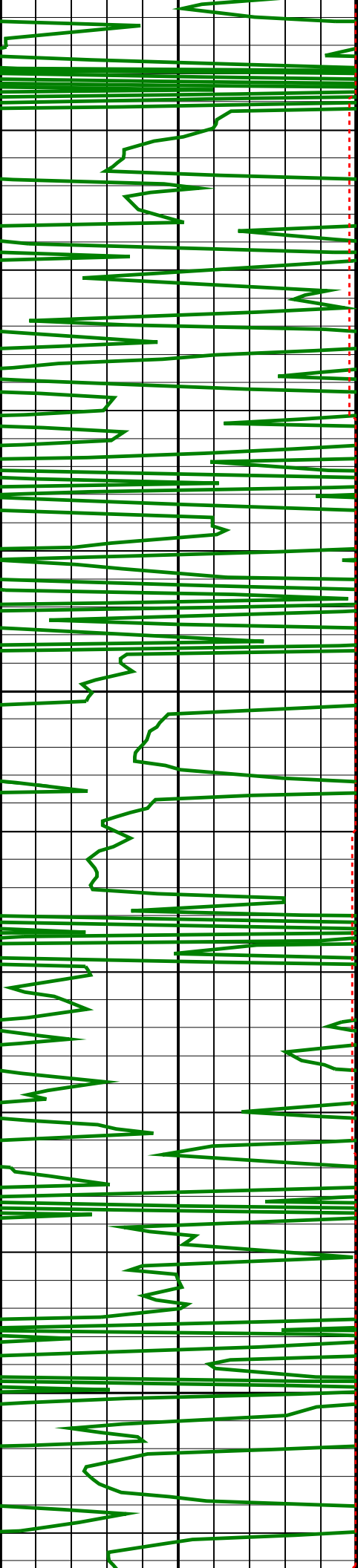


2075
TVD

2100
TVD

2125

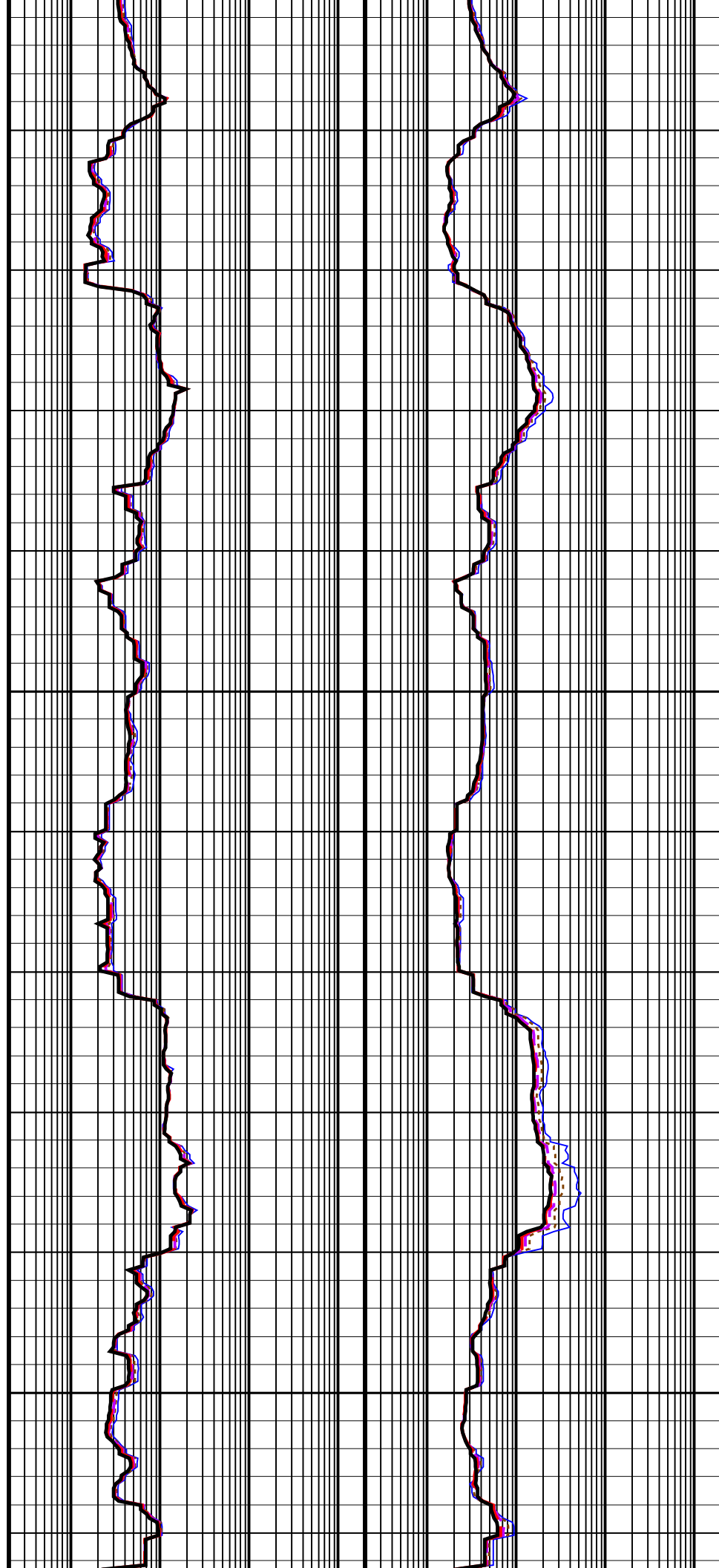


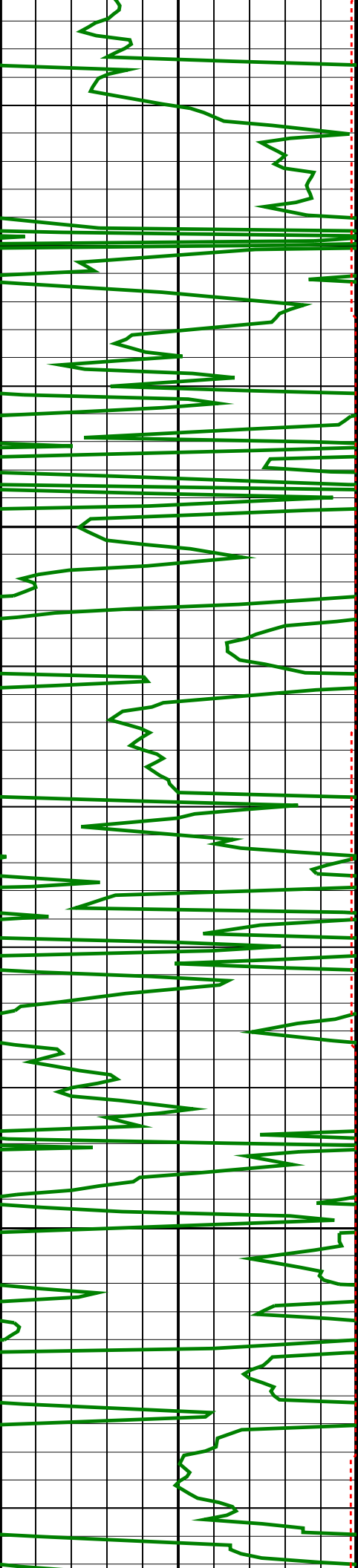


2125
TVD

2150
TVD

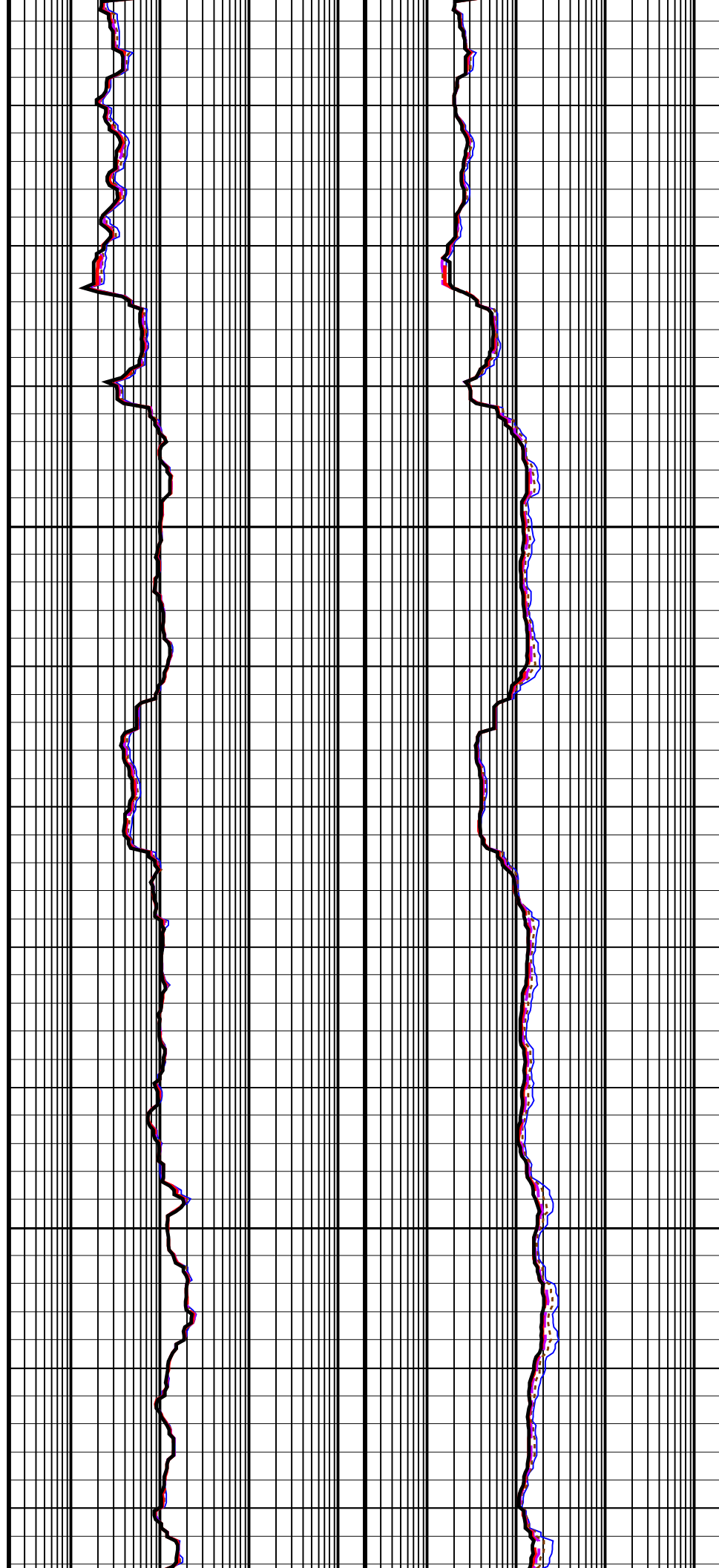
2175
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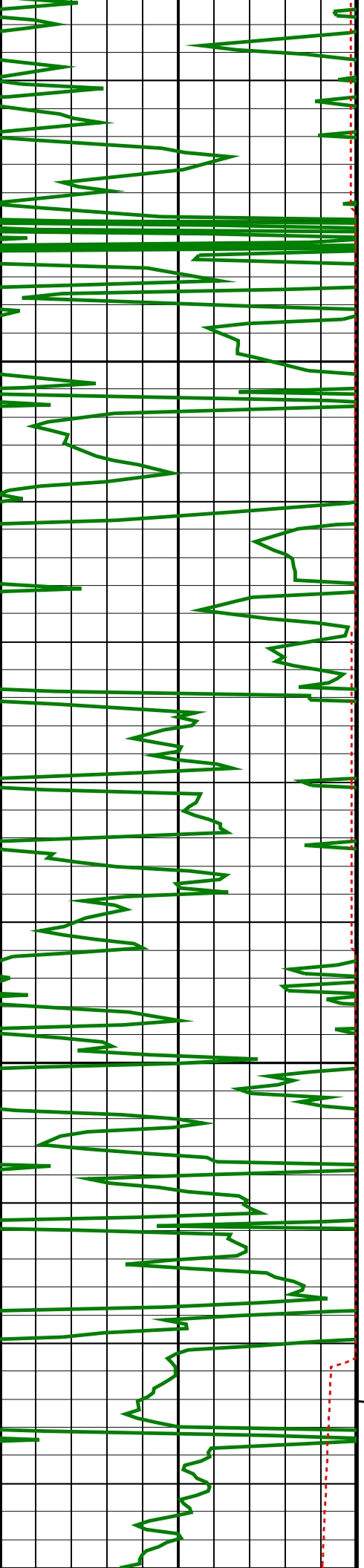




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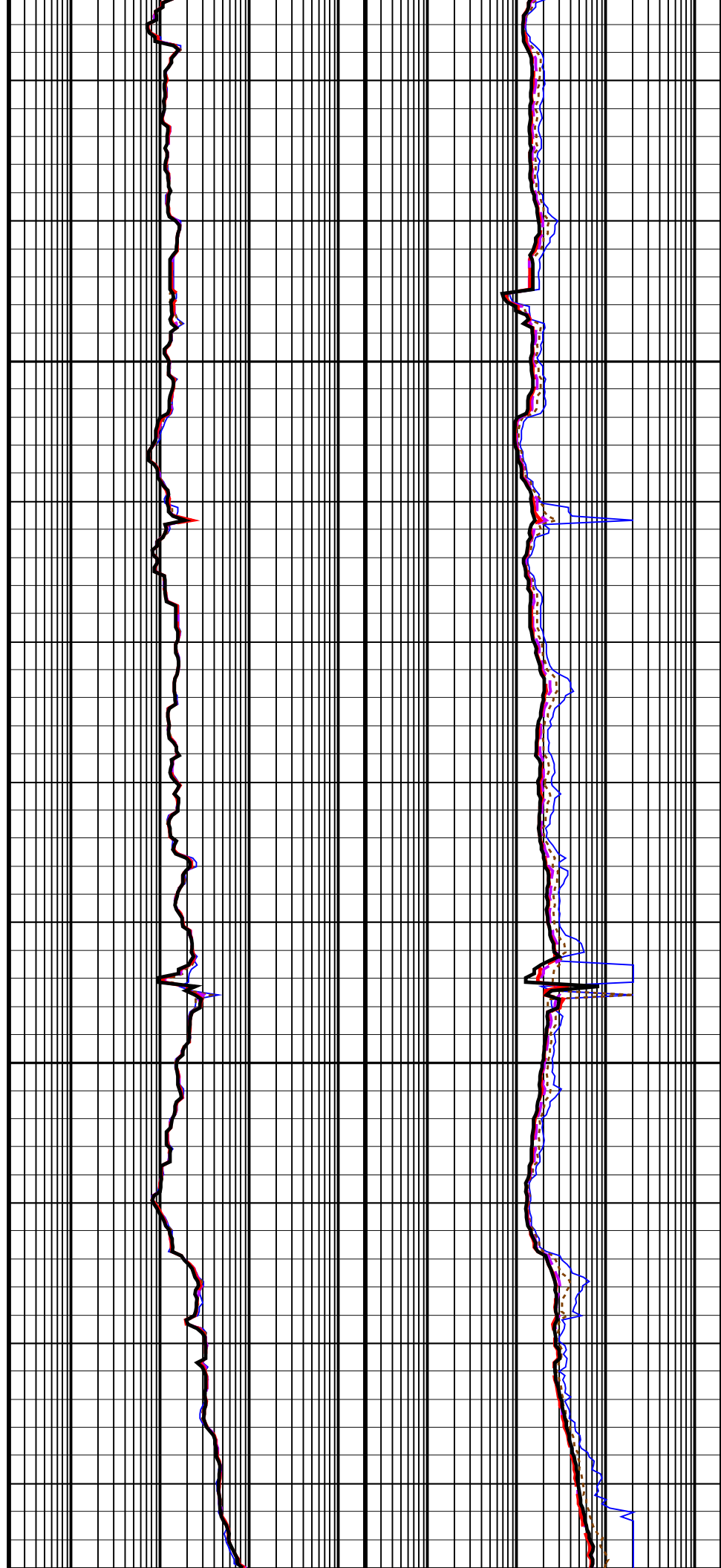
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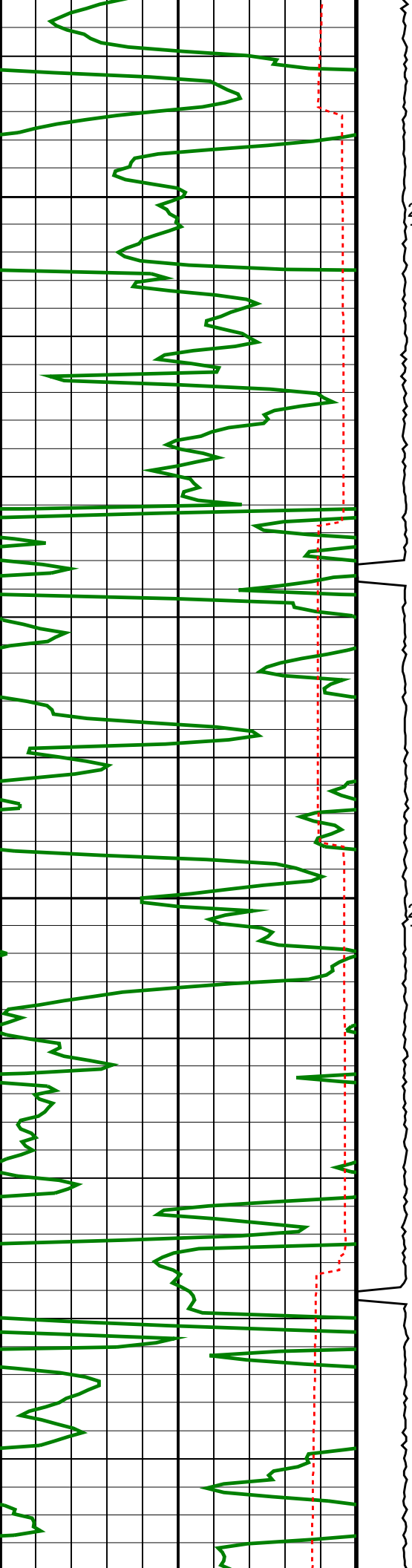




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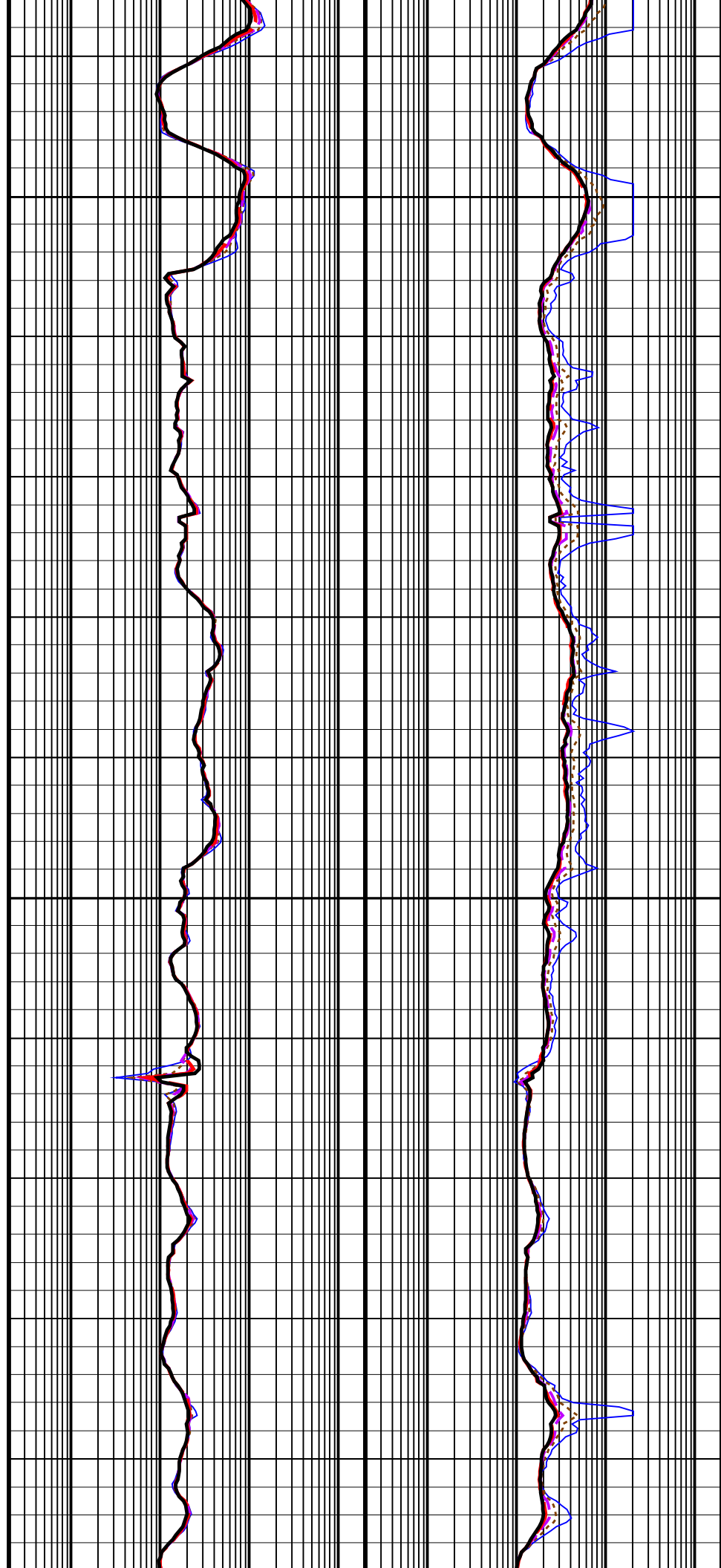
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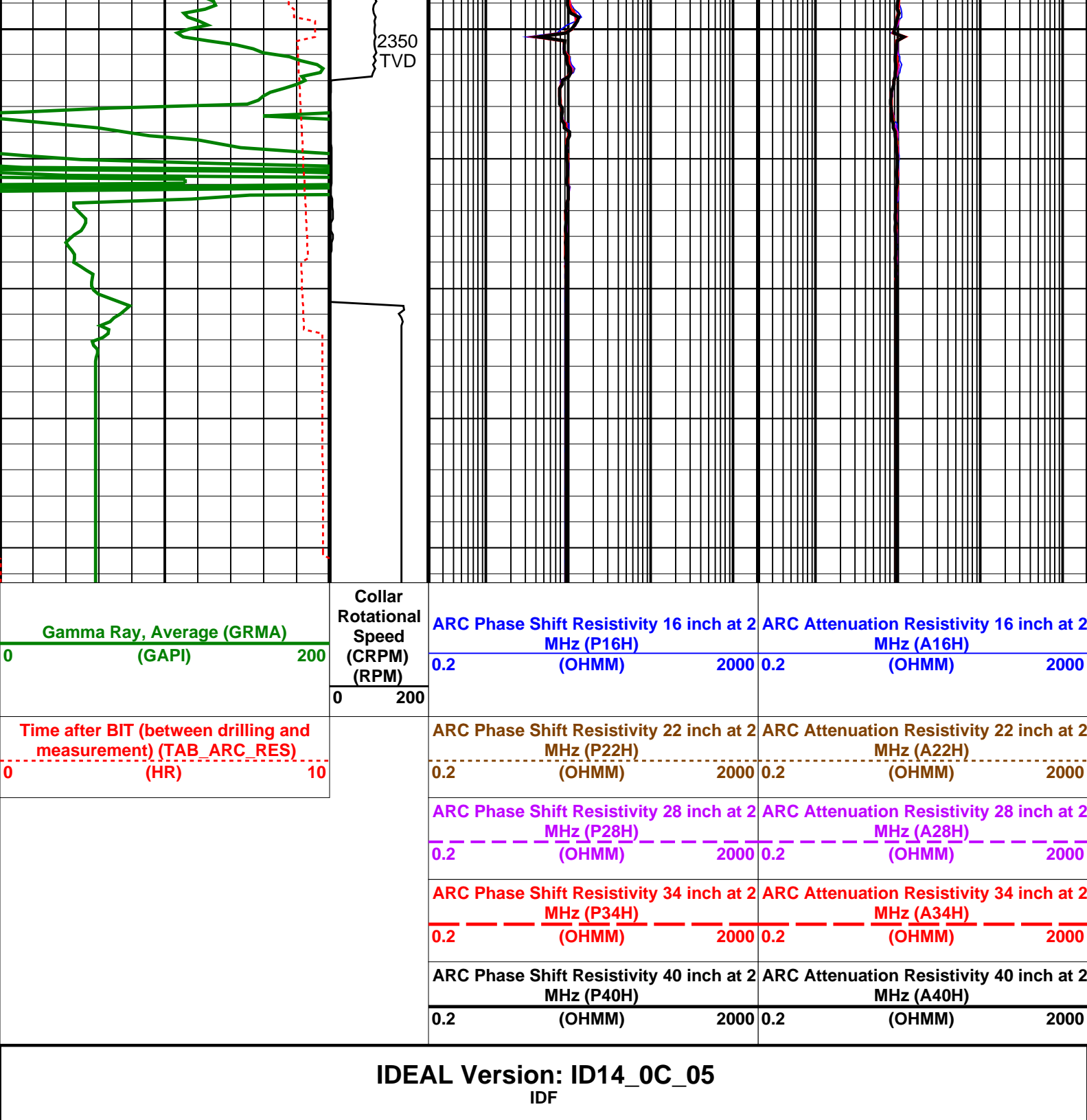




2300
TVD

2325
TVD





6.75-in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:
Tool Name and Serial Number
ARC675 Calibration Status

ARC6 - BA 447
AUTO -

Master: 19-Nov-2008 19:29

6.75-in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase-Shift T1	Value	Phase	Phase-Shift T2	Value	Phase	Phase-Shift T3	Value
Master		-0.4435	Master		0.4753	Master		-0.5025

	-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			0.4377	Master			-0.5039	Master			0.8857
	-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			-0.9448	Master			0.9314	Master			-0.9603
	-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			0.8903								
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)								

Master: 19-Nov-2008 19:29											
6.75-in. Array Resistivity Compensated Calibration											
Resistivity: Air											
Phase	Attenuation T1		Value	Phase	Attenuation T2		Value	Phase	Attenuation T3		Value
Master			8.252	Master			6.680	Master			4.885
	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			4.589	Master			3.439	Master			8.242
	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			6.701	Master			4.865	Master			4.602
	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			3.426								
	1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)								

Master: 20-Nov-2008 11:20											
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											5.059
	2.780 (Minimum)					4.800 (Nominal)				6.000 (Maximum)	

EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch / Equipment Identification											
Primary Equipment:											
Tool Name and Serial Number						ECO – 675			817		
Calibration Status						AUTO –					
Neutron Logging Source						PNG – C			2073-41121		
Density Logging Source						n.a					
Stabilizer Size						7.81 – in.					

Master: 27-Nov-2008 1:27											
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration											
SSn LSn : Water Tank											
Phase	SSn Gain ----				Value	Phase	SSn Offset ----				Value
Master					1.087	Master					791.5
	0.9300 (Minimum)	1.060 (Nominal)		1.190 (Maximum)			-137.0 (Minimum)	535.5 (Nominal)		1208 (Maximum)	
Phase	LSn Gain ----				Value	Phase	LSn Offset ----				Value
Master					1.102	Master					0
	0.9100 (Minimum)	1.060 (Nominal)		1.210 (Maximum)			-45.00 (Minimum)	31.50 (Nominal)		108.0 (Maximum)	

EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration




Neutron: Water Tank

Neutron: Water Rank							
Phase	Far 2 Gain -----		Value	Phase	Far 2 Offset -----		Value
Master			1.027	Master			0.6601
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Phase	Far 1 Gain -----		Value	Phase	Far 1 Offset -----		Value
Master			1.056	Master			0.7263
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Phase	Thermal Near gain -----		Value	Phase	Thermal Near offset -----		Value
Master			1.135	Master			45.20
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-500.0 (Minimum)	0 (Nominal)	500.0 (Maximum)
Phase	Epithermal Near gain -----		Value	Phase	Epithermal Near offset -----		Value
Master			1.172	Master			80.38
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)

Master: Calibration out of date 15–Sep–2007 17:26

EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration

Gamma Density: Magnesium Block

Gamma Density: Magnesium: Direct														
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master				3661	Master				7515	Master				17510
	2200 (Minimum)	3350 (Nominal)	4500 (Maximum)		4560 (Minimum)	6830 (Nominal)	9100 (Maximum)			11100 (Minimum)	16700 (Nominal)	22300 (Maximum)		

Master: Calibration out of date 15–Sep–2007 17:26

EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration

Gamma Density: Aluminum Block

LS window 3 – AI CPS				SS window 1 – AI CPS				SS window 3 – AI CPS						
Phase				Value	Phase				Value	Phase				
Master				600.9	Master				3777	Master				12040
	350.0 (Minimum)	575.0 (Nominal)	800.0 (Maximum)		2300 (Minimum)	3550 (Nominal)	4800 (Maximum)			7600 (Minimum)	11550 (Nominal)	15500 (Maximum)		

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EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration

Gamma Density: Background

Control Strategy: Background				Control Strategy: Background				Control Strategy: Background						
Phase	LS window 3 – Background CPS			Value	Phase	SS window 1 – Background CPS			Value	Phase	SS window 3 – Background CPS			Value
Master				60.74	Master				84.85	Master				401.4
	50.00 (Minimum)	70.00 (Nominal)	90.00 (Maximum)		50.00 (Minimum)	75.00 (Nominal)	100.0 (Maximum)			270.0 (Minimum)	370.0 (Nominal)	470.0 (Maximum)		

Master: Calibration out of date 15–Sep–2007 17:26

EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration

Gamma Density: Water Block Check

Sampling Density: Water Block Check							
Phase	Long spacing water density G/C3			Phase	Short spacing water density G/C3		Value
Master				Master			1.298
	1.021 (Minimum)	1.038 (Nominal)	1.054 (Maximum)		1.043 (Minimum)	1.078 (Nominal)	1.113 (Maximum)

Master: 17–Nov–2008 17:50

EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration

Resistivity: Air

Resolution: 7 μm											
Phase	Phase-Shift T1		Value	Phase	Phase-Shift T2		Value	Phase	Phase-Shift T3		Value
Master			3.747	Master			-3.865	Master			3.723
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T4		Value	Phase	Phase-Shift T5		Value	Phase	Phase-Shift T1 at 400KHz		Value
Master			-3.858	Master			3.743	Master			-1.655
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T2 at 400KHz		Value	Phase	Phase-Shift T3 at 400KHz		Value	Phase	Phase-Shift T4 at 400KHz		Value
Master			1.625	Master			-1.635	Master			1.642
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

<div><div></div><div>-4.000 (Minimum)</div><div>0 (Nominal)</div><div>4.000 (Maximum)</div></div>			<div><div></div><div>-4.000 (Minimum)</div><div>0 (Nominal)</div><div>4.000 (Maximum)</div></div>			<div><div></div><div>-4.000 (Minimum)</div><div>0 (Nominal)</div><div>4.000 (Maximum)</div></div>					
Phase	Phase-Shift T5 at 400KHz					Value					
Master	<div><div></div><div></div><div></div></div>					-1.630					
<div><div></div><div>-4.000 (Minimum)</div><div>0 (Nominal)</div><div>4.000 (Maximum)</div></div>											

Master: 17-Nov-2008 17:50																							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration																							
Resistivity: Air																							
Phase	Attenuation T1					Value		Phase	Attenuation T2					Value		Phase	Attenuation T3					Value	
Master	<div><div></div></div>					8.526		Master	<div><div></div></div>					5.890		Master	<div><div></div></div>					5.129	
7.000 (Minimum)			9.000 (Nominal)			11.00 (Maximum)		4.000 (Minimum)			6.000 (Nominal)			8.000 (Maximum)		3.500 (Minimum)			5.500 (Nominal)			7.500 (Maximum)	
Phase	Attenuation T4					Value		Phase	Attenuation T5					Value		Phase	Attenuation T1 at 400KHz					Value	
Master	<div><div></div></div>					4.291		Master	<div><div></div></div>					3.686		Master	<div><div></div></div>					8.535	
2.500 (Minimum)			4.500 (Nominal)			6.500 (Maximum)		2.000 (Minimum)			4.000 (Nominal)			6.000 (Maximum)		7.000 (Minimum)			9.000 (Nominal)			11.00 (Maximum)	
Phase	Attenuation T2 at 400KHz					Value		Phase	Attenuation T3 at 400KHz					Value		Phase	Attenuation T4 at 400KHz					Value	
Master	<div><div></div></div>					5.903		Master	<div><div></div></div>					5.131		Master	<div><div></div></div>					4.297	
4.000 (Minimum)			6.000 (Nominal)			8.000 (Maximum)		3.500 (Minimum)			5.500 (Nominal)			7.500 (Maximum)		2.500 (Minimum)			4.500 (Nominal)			6.500 (Maximum)	
Phase	Attenuation T5 at 400KHz					Value																	
Master	<div><div></div></div>					3.690																	
2.000 (Minimum)			4.000 (Nominal)			6.000 (Maximum)																	

SCHLUMBERGER

Survey report

14-Dec-2008 17:15:56

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

Well.....: SNA A-26A
API number.....: 08ASQ0030
Engineer.....: MA/MRG/JO

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

Spud date.....: 10-NOV-08
Last survey date.....: 11-Dec-08
Total accepted surveys...: 363
MD of first survey.....: 0.00 m
MD of last survey.....: 6456.00 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-).....: 15.35 m
Departure (+E/W-).....: -2.36 m

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

Azimuth from Vsect Origin to target: 15.36 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2008
Magnetic date.....: 05-Dec-2008
Magnetic field strength...: 1197.99 HCNT
Magnetic dec (+E/W-).....: 13.00 degrees
Magnetic dip.....: -68.69 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1197.99 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

	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	100f)	type	(deg)
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	0.00	0.00	0.00	0.00	0.00	-14.80	0.00	-2.36	2.36	270.00	0.00	TIP	None
2	9.08	0.00	0.00	9.08	9.08	-14.80	0.00	-2.36	2.36	270.00	0.00	MWD_M	None
3	59.08	0.58	240.11	50.00	59.08	-14.98	-0.13	-2.58	2.58	267.20	0.35	MWD_M	None
4	64.08	0.57	237.77	5.00	64.08	-15.02	-0.15	-2.62	2.63	266.68	0.16	MWD_M	None
5	69.08	0.57	235.38	5.00	69.08	-15.06	-0.18	-2.66	2.67	266.15	0.14	MWD_M	None
6	74.08	0.56	232.95	5.00	74.08	-15.09	-0.21	-2.70	2.71	265.60	0.16	MWD_M	None
7	79.08	0.56	230.49	5.00	79.08	-15.13	-0.24	-2.74	2.75	265.03	0.15	MWD_M	None
8	84.08	0.56	228.01	5.00	84.08	-15.17	-0.27	-2.78	2.79	264.44	0.15	MWD_M	None
9	89.08	0.62	224.12	5.00	89.08	-15.22	-0.31	-2.82	2.83	263.80	0.44	MWD_M	None
10	94.08	0.63	213.04	5.00	94.08	-15.27	-0.35	-2.85	2.87	263.03	0.74	MWD_M	None
11	99.08	0.68	206.26	5.00	99.08	-15.32	-0.40	-2.88	2.91	262.12	0.56	MWD_M	None
12	104.08	0.74	198.91	5.00	104.08	-15.38	-0.46	-2.90	2.94	261.08	0.66	MWD_M	None
13	109.08	0.87	187.03	5.00	109.08	-15.45	-0.52	-2.92	2.96	259.82	1.29	MWD_M	None
14	114.08	0.92	187.58	5.00	114.08	-15.53	-0.60	-2.93	2.99	258.39	0.31	MWD_M	None
15	119.08	1.18	171.81	5.00	119.07	-15.62	-0.69	-2.92	3.01	256.69	2.36	MWD_M	None
16	124.08	1.15	177.50	5.00	124.07	-15.71	-0.79	-2.92	3.02	254.78	0.73	MWD_M	None
17	129.08	1.45	168.32	5.00	129.07	-15.82	-0.91	-2.90	3.04	252.67	2.22	MWD_M	None
18	134.08	1.51	168.00	5.00	134.07	-15.93	-1.03	-2.87	3.05	250.26	0.37	MWD_M	None
19	139.08	1.63	169.37	5.00	139.07	-16.05	-1.17	-2.85	3.08	247.73	0.77	MWD_M	None
20	144.08	1.80	165.89	5.00	144.07	-16.19	-1.31	-2.81	3.11	245.01	1.21	MWD_M	None
21	149.08	1.87	165.61	5.00	149.06	-16.33	-1.47	-2.78	3.14	242.14	0.43	MWD_M	None
22	154.08	2.12	159.45	5.00	154.06	-16.47	-1.63	-2.72	3.17	239.05	2.01	MWD_M	None
23	159.08	2.26	157.59	5.00	159.06	-16.62	-1.81	-2.65	3.21	235.69	0.96	MWD_M	None
24	164.08	2.43	153.14	5.00	164.05	-16.78	-2.00	-2.57	3.25	232.13	1.52	MWD_M	None
25	169.08	2.69	147.79	5.00	169.05	-16.94	-2.19	-2.46	3.29	228.28	2.15	MWD_M	None
26	174.08	2.91	141.78	5.00	174.04	-17.09	-2.39	-2.32	3.33	224.11	2.23	MWD_M	None
27	179.08	3.23	135.78	5.00	179.04	-17.24	-2.59	-2.14	3.36	219.55	2.76	MWD_M	None
28	184.08	3.40	133.46	5.00	184.03	-17.38	-2.79	-1.93	3.40	214.69	1.32	MWD_M	None
29	189.08	3.47	132.44	5.00	189.02	-17.52	-3.00	-1.71	3.45	209.76	0.57	MWD_M	None
30	194.08	3.53	132.35	5.00	194.01	-17.66	-3.20	-1.49	3.53	204.92	0.37	MWD_M	None
31	199.08	3.54	132.38	5.00	199.00	-17.80	-3.41	-1.26	3.64	200.28	0.06	MWD_M	None
32	204.08	3.59	131.53	5.00	203.99	-17.94	-3.62	-1.03	3.76	195.88	0.44	MWD_M	None
33	209.08	3.58	132.77	5.00	208.98	-18.08	-3.83	-0.80	3.91	191.77	0.48	MWD_M	None
34	214.08	3.61	131.87	5.00	213.97	-18.22	-4.04	-0.57	4.08	187.97	0.39	MWD_M	None
35	219.08	3.67	131.81	5.00	218.96	-18.36	-4.25	-0.33	4.26	184.43	0.37	MWD_M	None
36	224.08	3.61	130.96	5.00	223.95	-18.50	-4.46	-0.09	4.46	181.17	0.49	MWD_M	None
37	229.08	3.59	130.21	5.00	228.94	-18.64	-4.66	0.15	4.67	178.19	0.31	MWD_M	None
38	234.08	3.40	128.42	5.00	233.93	-18.76	-4.86	0.38	4.87	175.49	1.34	MWD_M	None
39	239.08	3.38	127.46	5.00	238.92	-18.87	-5.04	0.62	5.08	173.03	0.37	MWD_M	None
40	244.08	3.12	126.03	5.00	243.91	-18.98	-5.21	0.84	5.28	170.80	1.66	MWD_M	None
41	249.08	2.95	125.30	5.00	248.91	-19.07	-5.36	1.06	5.47	168.84	1.06	MWD_M	None
42	254.08	2.63	124.32	5.00	253.90	-19.15	-5.50	1.26	5.64	167.12	1.97	MWD_M	None
43	259.08	2.49	123.71	5.00	258.90	-19.22	-5.63	1.44	5.81	165.62	0.87	MWD_M	None
44	264.08	2.14	123.21	5.00	263.89	-19.28	-5.74	1.61	5.96	164.31	2.14	MWD_M	None
45	269.08	2.04	122.13	5.00	268.89	-19.34	-5.84	1.77	6.10	163.18	0.66	MWD_M	None
46	274.08	2.20	119.82	5.00	273.88	-19.39	-5.93	1.92	6.24	162.03	1.11	MWD_M	None
47	279.08	1.79	120.65	5.00	278.88	-19.43	-6.02	2.07	6.37	160.99	2.51	MWD_M	None
48	284.08	1.55	121.14	5.00	283.88	-19.47	-6.09	2.20	6.48	160.16	1.47	MWD_M	None
49	289.08	1.45	117.86	5.00	288.88	-19.50	-6.16	2.31	6.58	159.42	0.80	MWD_M	None
50	294.08	1.25	116.65	5.00	293.88	-19.53	-6.21	2.42	6.67	158.74	1.23	MWD_M	None
51	299.08	1.15	115.17	5.00	298.88	-19.55	-6.26	2.51	6.74	158.13	0.64	MWD_M	None
52	304.08	1.03	110.72	5.00	303.87	-19.56	-6.30	2.60	6.81	157.57	0.89	MWD_M	None
53	309.08	1.05	109.80	5.00	308.87	-19.57	-6.33	2.68	6.87	157.01	0.16	MWD_M	None
54	314.08	1.02	110.36	5.00	313.87	-19.57	-6.36	2.77	6.94	156.47	0.19	MWD_M	None
55	319.08	1.01	107.44	5.00	318.87	-19.58	-6.39	2.85	7.00	155.93	0.32	MWD_M	None
56	324.08	0.97	106.83	5.00	323.87	-19.58	-6.41	2.94	7.05	155.40	0.25	MWD_M	None
57	329.08	0.96	102.31	5.00	328.87	-19.58	-6.43	3.02	7.11	154.88	0.47	MWD_M	None
58	334.08	0.91	101.40	5.00	333.87	-19.58	-6.45	3.10	7.16	154.36	0.32	MWD_M	None
59	339.08	0.94	89.80	5.00	338.87	-19.56	-6.46	3.18	7.20	153.81	1.15	MWD_M	None
60	344.08	0.95	85.21	5.00	343.87	-19.54	-6.46	3.26	7.23	153.21	0.47	MWD_M	None
61	349.08	1.09	63.96	5.00	348.87	-19.49	-6.43	3.34	7.25	152.53	2.44	MWD_M	None
62	354.08	1.23	59.45	5.00	353.87	-19.42	-6.38	3.43	7.25	151.73	1.02	MWD_M	None
63	359.08	1.53	47.32	5.00	358.87	-19.33	-6.31	3.53	7.23	150.79	2.54	MWD_M	None
64	364.08	1.66	44.19	5.00	363.86	-19.21	-6.21	3.63	7.19	149.72	0.95	MWD_M	None
65	369.08	1.95	37.33	5.00	368.86	-19.06	-6.09	3.73	7.14	148.53	2.20	MWD_M	None
66	374.08	2.14	33.74	5.00	373.86	-18.90	-5.95	3.83	7.08	147.20	1.40	MWD_M	None
67	379.08	2.50	32.64	5.00	378.85	-18.70	-5.78	3.94	7.00	145.69	2.21	MWD_M	None
68	384.08	2.71	29.00	5.00	383.85	-18.49	-5.58	4.06	6.90	143.98	1.63	MWD_M	None
69	389.08	3.13	26.71	5.00	388.84	-18.24	-5.36	4.18	6.79	142.05	2.66	MWD_M	None
70	394.08	3.37	24.24	5.00	393.83	-17.96	-5.10	4.30	6.67	139.88	1.69	MWD_M	None
71	399.08	3.70	22.28	5.00	398.82	-17.65	-4.82	4.42	6.54	137.46	2.14	MWD_M	None
72	404.08	3.93	20.75	5.00	403.81	-17.32	-4.51	4.54	6.40	134.79	1.53	MWD_M	None
73	409.08	4.40	20.41	5.00	408.80	-16.96	-4.17	4.67	6.26	131.75	2.87	MWD_M	None
74	414.08	4.59	20.18	5.00	413.78	-16.57	-3.80	4.81	6.13	128.34	1.16	MWD_M	None
75	419.08	5.03	19.34	5.00	418.77	-16.15	-3.41	4.95	6.01	124.55	2.72	MWD_M	None
76	424.08	5.27	19.31	5.00	423.75	-15.70	-2.98	5.10	5.91	120.35	1.46	MWD_M	None
77	429.08	5.60	19.04	5.00	428.72	-15.23	-2.54	5.25	5.83	115.78	2.02	MWD_M	None
78	434.08	5.96	18.28	5.00	433.70	-14.73	-2.06	5.41	5.79	110.83	2.24	MWD_M	None
79	439.08	6.39	17.47	5.00	438.67	-14.19	-1.55	5.58	5.79	105.50	2.67	MWD_M	None

	80	444.08	6.82	15.96	5.00	443.64	-13.62	-1.00	5.74	5.83	99.84	2.83	MWD_M	None
	81	449.08	7.25	15.10	5.00	448.60	-13.00	-0.41	5.91	5.92	93.94	2.70	MWD_M	None
	82	454.08	7.60	14.33	5.00	453.56	-12.36	0.22	6.07	6.08	87.94	2.22	MWD_M	None
	83	459.08	7.96	13.75	5.00	458.51	-11.68	0.88	6.24	6.30	82.01	2.25	MWD_M	None
	84	464.08	8.44	13.43	5.00	463.46	-10.97	1.57	6.40	6.59	76.24	2.94	MWD_M	None
	85	469.08	8.92	12.86	5.00	468.40	-10.21	2.30	6.57	6.97	70.69	2.97	MWD_M	None
	86	474.08	9.40	12.31	5.00	473.34	-9.42	3.08	6.75	7.42	65.47	2.97	MWD_M	None
	87	479.08	9.85	11.95	5.00	478.27	-8.58	3.90	6.92	7.94	60.62	2.77	MWD_M	None
	88	484.08	10.24	11.95	5.00	483.19	-7.71	4.75	7.10	8.55	56.23	2.38	MWD_M	None
	89	489.08	10.66	11.77	5.00	488.11	-6.81	5.64	7.29	9.22	52.28	2.57	MWD_M	None
	90	494.08	11.08	11.79	5.00	493.02	-5.87	6.56	7.48	9.95	48.75	2.56	MWD_M	None
	91	499.08	11.53	11.83	5.00	497.92	-4.89	7.52	7.68	10.75	45.61	2.74	MWD_M	None
	92	504.08	12.20	11.77	5.00	502.82	-3.86	8.53	7.89	11.62	42.79	4.09	MWD_M	None
	93	509.08	12.72	11.78	5.00	507.70	-2.79	9.58	8.11	12.56	40.25	3.17	MWD_M	None
	94	514.08	13.18	11.95	5.00	512.57	-1.67	10.68	8.34	13.55	38.00	2.81	MWD_M	None
	95	519.08	13.63	11.61	5.00	517.43	-0.51	11.81	8.58	14.60	35.99	2.78	MWD_M	None
	96	524.08	14.09	11.55	5.00	522.29	0.68	12.99	8.82	15.70	34.18	2.81	MWD_M	None
	97	529.08	14.50	11.48	5.00	527.13	1.92	14.20	9.07	16.85	32.57	2.50	MWD_M	None
	98	534.08	14.92	11.90	5.00	531.97	3.18	15.44	9.32	18.04	31.13	2.64	MWD_M	None
	99	539.08	15.36	11.71	5.00	536.80	4.49	16.72	9.59	19.27	29.84	2.70	MWD_M	None
	100	544.08	15.76	12.02	5.00	541.61	5.82	18.03	9.87	20.55	28.69	2.49	MWD_M	None
	101	549.08	16.15	12.28	5.00	546.42	7.20	19.37	10.16	21.88	27.67	2.42	MWD_M	None
	102	554.08	16.63	12.98	5.00	551.22	8.61	20.75	10.47	23.24	26.76	3.16	MWD_M	None
	103	559.08	17.06	12.96	5.00	556.00	10.05	22.16	10.79	24.65	25.96	2.62	MWD_M	None
	104	564.08	17.49	13.07	5.00	560.78	11.54	23.61	11.13	26.10	25.23	2.63	MWD_M	None
	105	569.08	17.97	13.22	5.00	565.54	13.06	25.09	11.47	27.59	24.57	2.94	MWD_M	None
	106	574.08	18.39	13.17	5.00	570.29	14.62	26.61	11.83	29.12	23.96	2.56	MWD_M	None
	107	579.08	18.79	13.22	5.00	575.03	16.21	28.16	12.19	30.69	23.41	2.44	MWD_M	None
	108	584.08	19.22	13.20	5.00	579.76	17.84	29.75	12.56	32.29	22.90	2.62	MWD_M	None
	109	589.08	19.56	13.54	5.00	584.47	19.50	31.36	12.95	33.93	22.43	2.18	MWD_M	None
	110	594.08	19.95	13.19	5.00	589.18	21.19	33.01	13.34	35.60	22.00	2.48	MWD_M	None
	111	599.08	20.33	13.16	5.00	593.87	22.91	34.68	13.73	37.30	21.60	2.32	MWD_M	None
	112	604.08	20.74	13.17	5.00	598.56	24.66	36.39	14.13	39.04	21.22	2.50	MWD_M	None
	113	609.08	21.04	13.19	5.00	603.23	26.44	38.13	14.54	40.81	20.87	1.83	MWD_M	None
	114	614.08	21.50	13.22	5.00	607.89	28.25	39.89	14.95	42.60	20.54	2.80	MWD_M	None
	115	619.08	21.94	13.33	5.00	612.53	30.10	41.69	15.38	44.44	20.24	2.69	MWD_M	None
	116	624.08	22.39	13.17	5.00	617.16	31.99	43.53	15.81	46.31	19.96	2.77	MWD_M	None
	117	629.08	22.74	13.37	5.00	621.78	33.90	45.40	16.25	48.22	19.69	2.18	MWD_M	None
	118	634.08	23.24	13.26	5.00	626.38	35.86	47.30	16.70	50.16	19.44	3.06	MWD_M	None
	119	639.08	23.59	13.38	5.00	630.97	37.84	49.23	17.16	52.14	19.21	2.15	MWD_M	None
	120	644.08	24.12	13.25	5.00	635.54	39.86	51.20	17.62	54.15	18.99	3.25	MWD_M	None
	121	649.08	24.46	13.58	5.00	640.10	41.92	53.20	18.10	56.19	18.79	2.23	MWD_M	None
	122	654.08	24.89	13.55	5.00	644.64	44.00	55.23	18.59	58.27	18.60	2.62	MWD_M	None
	123	659.08	25.18	13.79	5.00	649.17	46.12	57.29	19.09	60.38	18.43	1.87	MWD_M	None
	124	664.08	25.74	13.77	5.00	653.69	48.27	59.37	19.60	62.52	18.27	3.41	MWD_M	None
	125	669.08	26.12	14.13	5.00	658.18	50.45	61.49	20.13	64.71	18.12	2.51	MWD_M	None
	126	674.08	26.66	14.31	5.00	662.66	52.68	63.65	20.67	66.92	17.99	3.33	MWD_M	None
	127	679.08	26.97	14.34	5.00	667.13	54.93	65.83	21.23	69.17	17.87	1.89	MWD_M	None
	128	684.08	27.45	14.63	5.00	671.57	57.22	68.05	21.80	71.46	17.77	3.04	MWD_M	None
	129	689.08	27.68	15.50	5.00	676.01	59.53	70.28	22.40	73.77	17.68	2.83	MWD_M	None
	130	694.08	28.28	14.99	5.00	680.42	61.88	72.55	23.02	76.11	17.61	3.94	MWD_M	None
	131	699.08	28.76	15.19	5.00	684.81	64.26	74.85	23.64	78.50	17.53	2.98	MWD_M	None
	132	704.08	29.36	15.37	5.00	689.18	66.69	77.19	24.28	80.92	17.46	3.70	MWD_M	None
	133	709.08	29.91	15.44	5.00	693.53	69.16	79.58	24.94	83.39	17.40	3.36	MWD_M	None
	134	714.08	30.46	15.51	5.00	697.85	71.68	82.00	25.61	85.91	17.35	3.36	MWD_M	None
	135	719.08	30.98	15.88	5.00	702.15	74.23	84.46	26.30	88.46	17.30	3.37	MWD_M	None
	136	724.08	31.50	15.91	5.00	706.43	76.83	86.95	27.01	91.05	17.26	3.17	MWD_M	None
	137	729.08	32.15	16.13	5.00	710.67	79.46	89.49	27.74	93.69	17.22	4.02	MWD_M	None
	138	734.08	32.53	16.22	5.00	714.90	82.14	92.06	28.48	96.36	17.19	2.34	MWD_M	None
	139	739.08	33.12	16.56	5.00	719.10	84.85	94.66	29.25	99.07	17.17	3.77	MWD_M	None
	140	744.08	33.58	16.63	5.00	723.28	87.59	97.29	30.03	101.82	17.16	2.81	MWD_M	None
	141	749.08	34.23	16.64	5.00	727.43	90.38	99.96	30.83	104.61	17.14	3.96	MWD_M	None
	142	754.08	34.68	16.71	5.00	731.55	93.21	102.67	31.64	107.44	17.13	2.75	MWD_M	None
	143	759.08	35.33	16.71	5.00	735.64	96.08	105.42	32.47	110.31	17.12	3.96	MWD_M	None
	144	764.08	35.74	16.90	5.00	739.71	98.98	108.20	33.31	113.21	17.11	2.59	MWD_M	None
	145	769.08	36.44	16.94	5.00	743.75	101.93	111.02	34.17	116.16	17.11	4.27	MWD_M	None
	146	774.08	36.88	17.00	5.00	747.77	104.91	113.87	35.04	119.14	17.10	2.69	MWD_M	None
	147	779.08	37.65	17.10	5.00	751.74	107.94	116.77	35.93	122.17	17.10	4.71	MWD_M	None
	148	784.08	37.96	17.09	5.00	755.69	111.00	119.70	36.83	125.24	17.10	1.89	MWD_M	None
	149	789.08	38.71	17.08	5.00	759.62	114.10	122.66	37.74	128.34	17.10	4.57	MWD_M	None
	150	794.08	39.01	17.21	5.00	763.51	117.24	125.66	38.66	131.47	17.10	1.90	MWD_M	None
	151	799.08	39.73	17.32	5.00	767.38	120.41	128.69	39.60	134.65	17.11	4.41	MWD_M	None
	152	804.08	40.04	17.35	5.00	771.21	123.61	131.75	40.56	137.85	17.11	1.89	MWD_M	None
	153	809.08	40.79	17.37	5.00	775.02	126.85	134.84	41.53	141.09	17.12	4.57	MWD_M	None
	154	814.08	41.26	16.88	5.00	778.79	130.13	137.98	42.49	144.38	17.12	3.47	MWD_M	None
	155	819.08	41.82	17.36	5.00	782.53	133.44	141.15	43.47	147.69	17.12	3.93	MWD_M	None
	156	824.08	42.27	17.45	5.00	786.25	136.79	144.34	44.47	151.04	17.12	2.77	MWD_M	None
	157	829.08	42.86	17.48	5.00	789.93	140.17	147.57	45.49	154.42	17.13	3.60	MWD_M	None
	158	834.08	43.41	17.44	5.00	793.58	143.59	150.83	46.51	157.84	17.14	3.36	MWD_M	None
	159	839.08	43.87	17.47	5.00	797.28	147.04	154.32	47.55	161.09	17.14	2.93	MWD_M	None
	160	844.08	44.33	17.49	5.00	800.93	150.53	157.84	48.58	164.38	17.14	2.93	MWD_M	None

159	839.08	43.87	1.47	5.00	797.20	147.04	154.12	47.55	161.29	17.14	2.81	MWD_M	None
160	844.08	44.42	17.45	5.00	800.78	150.52	157.44	48.59	164.77	17.15	3.35	MWD_M	None
161	849.08	44.93	17.49	5.00	804.34	154.03	160.80	49.65	168.29	17.16	3.11	MWD_M	None
162	854.08	45.62	17.46	5.00	807.86	157.58	164.19	50.71	171.84	17.16	4.21	MWD_M	None
163	859.08	46.11	17.41	5.00	811.34	161.16	167.61	51.79	175.43	17.17	3.00	MWD_M	None
164	864.08	46.86	17.42	5.00	814.78	164.79	171.07	52.87	179.05	17.18	4.57	MWD_M	None
165	869.08	47.24	17.38	5.00	818.19	168.45	174.56	53.97	182.71	17.18	2.32	MWD_M	None
166	874.08	48.14	17.36	5.00	821.56	172.14	178.09	55.07	186.41	17.18	5.49	MWD_M	None
167	879.08	48.59	17.53	5.00	824.88	175.88	181.66	56.19	190.15	17.19	2.85	MWD_M	None
168	884.08	49.52	17.60	5.00	828.15	179.65	185.26	57.33	193.93	17.20	5.68	MWD_M	None
169	889.08	49.88	17.60	5.00	831.39	183.46	188.89	58.49	197.74	17.20	2.19	MWD_M	None
170	894.08	50.70	17.56	5.00	834.58	187.30	192.56	59.65	201.59	17.21	5.00	MWD_M	None
171	899.08	50.97	17.67	5.00	837.74	191.18	196.25	60.82	205.46	17.22	1.73	MWD_M	None
172	904.08	51.84	17.65	5.00	840.86	195.08	199.98	62.01	209.37	17.23	5.30	MWD_M	None
173	909.08	51.98	17.68	5.00	843.94	199.01	203.73	63.20	213.30	17.23	0.87	MWD_M	None
174	925.83	52.78	16.71	16.75	854.17	212.27	216.40	67.12	226.57	17.23	2.02	MWD_M	None
175	942.60	56.44	15.08	16.77	863.88	225.94	229.55	70.86	240.24	17.16	7.08	MWD_M	None
176	985.12	61.91	10.72	42.52	885.67	262.39	265.12	78.97	276.63	16.59	4.75	MWD_M	None
177	1014.73	64.76	8.76	29.61	898.95	288.72	291.20	83.44	302.92	15.99	3.44	MWD_M	None
178	1043.64	66.87	7.23	28.91	910.80	314.87	317.31	87.10	329.05	15.35	2.67	MWD_M	None
179	1072.81	69.09	5.78	29.17	921.73	341.59	344.18	90.16	355.79	14.68	2.71	MWD_M	None
180	1101.53	71.57	3.80	28.72	931.40	368.17	371.12	92.42	382.46	13.98	3.29	MWD_M	None
181	1131.12	74.14	2.13	29.59	940.12	395.78	399.36	93.88	410.24	13.23	3.12	MWD_M	None
182	1160.48	76.77	0.56	29.36	947.50	423.35	427.77	94.54	438.09	12.46	3.15	MWD_M	None
183	1189.75	79.35	358.98	29.27	953.55	450.93	456.40	94.42	466.06	11.69	3.13	MWD_M	None
184	1218.32	81.27	359.33	28.57	958.36	477.97	484.56	94.01	493.59	10.98	2.08	MWD_M	None
185	1247.65	82.54	358.97	29.33	962.49	505.86	513.59	93.58	522.05	10.33	1.37	MWD_M	None
186	1276.98	83.95	358.89	29.33	965.94	533.79	542.71	93.04	550.63	9.73	1.47	MWD_M	None
187	1306.40	83.61	358.52	29.42	969.13	561.81	571.95	92.37	579.36	9.17	0.52	MWD_M	None
188	1335.18	83.58	358.72	28.78	972.34	589.20	600.54	91.69	607.50	8.68	0.21	MWD_M	None
189	1364.58	83.72	357.92	29.40	975.59	617.14	629.75	90.83	636.27	8.21	0.84	MWD_M	None
190	1393.68	83.61	357.93	29.10	978.80	644.73	658.65	89.78	664.74	7.76	0.12	MWD_M	None
191	1423.26	83.49	357.72	29.58	982.13	672.76	688.02	88.67	693.71	7.34	0.25	MWD_M	None
192	1451.95	83.52	357.71	28.69	985.37	699.92	716.51	87.53	721.83	6.96	0.03	MWD_M	None
193	1481.51	83.93	357.89	29.56	988.60	727.94	745.87	86.40	750.86	6.61	0.46	MWD_M	None
194	1510.51	83.64	358.18	29.00	991.74	755.46	774.68	85.41	779.38	6.29	0.43	MWD_M	None
195	1539.79	83.67	357.97	29.28	994.98	783.24	803.76	84.44	808.19	6.00	0.22	MWD_M	None
196	1568.63	83.72	358.01	28.84	998.14	810.60	832.41	83.43	836.58	5.72	0.07	MWD_M	None
197	1597.73	83.89	357.90	29.10	1001.28	838.21	861.32	82.40	865.26	5.46	0.21	MWD_M	None
198	1627.14	83.95	357.90	29.41	1004.40	866.10	890.55	81.33	894.26	5.22	0.06	MWD_M	None
199	1656.35	83.75	358.23	29.21	1007.53	893.83	919.57	80.35	923.08	4.99	0.40	MWD_M	None
200	1685.17	83.81	358.13	28.82	1010.65	921.21	948.21	79.44	951.53	4.79	0.12	MWD_M	None
201	1714.54	83.95	358.06	29.37	1013.78	949.09	977.40	78.46	980.54	4.59	0.16	MWD_M	None
202	1744.05	83.89	357.99	29.51	1016.91	977.10	1006.72	77.45	1009.70	4.40	0.09	MWD_M	None
203	1773.27	83.81	358.17	29.22	1020.04	1004.84	1035.76	76.48	1038.58	4.22	0.20	MWD_M	None
204	1801.85	83.81	358.45	28.58	1023.12	1032.01	1064.16	75.64	1066.84	4.07	0.30	MWD_M	None
205	1830.92	83.87	358.29	29.07	1026.24	1059.65	1093.05	74.82	1095.61	3.92	0.18	MWD_M	None
206	1860.59	83.83	358.31	29.67	1029.42	1087.85	1122.54	73.94	1124.97	3.77	0.05	MWD_M	None
207	1889.80	83.89	358.19	29.21	1032.54	1115.61	1151.57	73.06	1153.88	3.63	0.14	MWD_M	None
208	1918.20	83.98	358.28	28.40	1035.54	1142.60	1179.79	72.19	1182.00	3.50	0.14	MWD_M	None
209	1947.29	83.92	358.03	29.09	1038.61	1170.23	1208.71	71.26	1210.80	3.37	0.27	MWD_M	None
210	1976.94	83.75	358.20	29.65	1041.79	1198.38	1238.17	70.29	1240.16	3.25	0.25	MWD_M	None
211	2006.35	83.84	357.62	29.41	1044.97	1226.28	1267.39	69.22	1269.28	3.13	0.60	MWD_M	None
212	2035.33	83.75	357.60	28.98	1048.10	1253.71	1296.17	68.02	1297.96	3.00	0.10	MWD_M	None
213	2064.96	83.78	357.54	29.63	1051.32	1281.76	1325.60	66.77	1327.28	2.88	0.07	MWD_M	None
214	2093.93	83.95	357.77	28.97	1054.42	1309.20	1354.38	65.59	1355.97	2.77	0.30	MWD_M	None
215	2123.22	83.98	357.50	29.29	1057.50	1336.94	1383.48	64.39	1384.98	2.66	0.28	MWD_M	None
216	2152.02	83.95	357.57	28.80	1060.53	1364.21	1412.10	63.16	1413.51	2.56	0.08	MWD_M	None
217	2181.27	83.75	357.55	29.25	1063.66	1391.90	1441.15	61.92	1442.48	2.46	0.21	MWD_M	None
218	2210.82	83.98	357.42	29.55	1066.82	1419.86	1470.50	60.63	1471.75	2.36	0.27	MWD_M	None
219	2240.04	83.81	357.91	29.22	1069.93	1447.54	1499.53	59.45	1500.71	2.27	0.54	MWD_M	None
220	2268.82	83.72	358.04	28.78	1073.05	1474.84	1528.13	58.44	1529.24	2.19	0.17	MWD_M	None
221	2297.96	83.87	358.30	29.14	1076.20	1502.52	1557.08	57.51	1558.14	2.12	0.31	MWD_M	None
222	2327.20	83.72	358.23	29.24	1079.36	1530.30	1586.14	56.63	1587.15	2.04	0.17	MWD_M	None
223	2356.53	83.81	358.16	29.33	1082.55	1558.16	1615.28	55.71	1616.24	1.98	0.12	MWD_M	None
224	2385.14	83.87	358.00	28.61	1085.62	1585.32	1643.71	54.76	1644.62	1.91	0.18	MWD_M	None
225	2414.60	83.78	358.05	29.46	1088.79	1613.28	1672.98	53.75	1673.84	1.84	0.11	MWD_M	None
226	2443.99	83.84	358.07	29.39	1091.95	1641.18	1702.18	52.76	1703.00	1.78	0.07	MWD_M	None
227	2473.13	83.83	358.05	29.14	1095.08	1668.84	1731.14	51.78	1731.91	1.71	0.02	MWD_M	None
228	2501.94	83.89	357.98	28.81	1098.17	1696.18	1759.76	50.79	1760.50	1.65	0.10	MWD_M	None
229	2531.15	83.83	357.97	29.21	1101.29	1723.90	1788.79	49.76	1789.48	1.59	0.06	MWD_M	None
230	2560.36	83.69	357.86	29.21	1104.46	1751.60	1817.81	48.71	1818.46	1.53	0.19	MWD_M	None
231	2589.71	83.75	358.08	29.35	1107.67	1779.44	1846.96	47.67	1847.58	1.48	0.24	MWD_M	None
232	2618.49	83.72	358.05	28.78	1110.82	1806.75	1875.55	46.71	1876.13	1.43	0.04	MWD_M	None
233	2647.50	83.66	358.08	29.01	1114.00	1834.28	1904.37	45.73	1904.92	1.38	0.07	MWD_M	None
234	2676.96	83.66	358.05	29.46	1117.26	1862.24	1933.63	44.74	1934.15	1.33	0.03	MWD_M	None
235	2705.94	83.63	358.14	28.98	1120.47	1889.74	1962.42	43.79	1962.91	1.28	0.10	MWD_M	None
236	2735.06	83.75	358.31	29.12	1123.67	1917.40	1991.35	42.89	1991.81	1.23	0.22	MWD_M	None
237	2764.38	83.90	358.23	29.32	1126.82	1945.27	2020.48	42.01	2020.92	1.19	0.18	MWD_M	None
238	2793.63	83.81	358.33	29.25	1129.95	1973.06	2049.55	41.14	2049.97	1.15	0.14	MWD_M	None

319	5154.85	82.91	350.04	28.65	1389.05	4215.48	4395.23	-32.40	4395.35	359.58	0.77	MWD_M	None
320	5184.26	79.96	359.88	29.41	1393.43	4243.51	4424.31	-32.42	4424.43	359.58	3.06	MWD_M	None
321	5242.51	72.28	358.99	58.25	1407.39	4297.85	4480.81	-32.97	4480.93	359.58	4.04	MWD_M	None
322	5271.33	69.03	358.04	28.82	1416.94	4323.87	4507.99	-33.67	4508.12	359.57	3.57	MWD_M	None
323	5300.84	66.13	356.70	29.51	1428.19	4349.82	4535.24	-34.92	4535.37	359.56	3.26	MWD_M	None
324	5329.62	63.37	355.77	28.78	1440.47	4374.41	4561.21	-36.63	4561.36	359.54	3.06	MWD_M	None
325	5359.12	60.23	355.31	29.50	1454.41	4398.86	4587.13	-38.65	4587.29	359.52	3.27	MWD_M	None
326	5388.65	57.25	355.08	29.53	1469.73	4422.56	4612.28	-40.76	4612.46	359.49	3.08	MWD_M	None
327	5417.97	53.51	355.34	29.32	1486.39	4445.20	4636.32	-42.77	4636.51	359.47	3.89	MWD_M	None
328	5447.17	49.80	357.07	29.20	1504.50	4466.83	4659.16	-44.30	4659.37	359.46	4.12	MWD_M	None
329	5465.29	47.44	358.20	18.12	1516.48	4479.78	4672.75	-44.86	4672.96	359.45	4.22	MWD_M	None
330	5504.48	44.01	358.64	39.19	1543.83	4506.61	4700.79	-45.64	4701.01	359.44	2.68	MWD_M	None
331	5532.97	40.34	358.53	28.49	1564.94	4524.93	4719.91	-46.11	4720.13	359.44	3.93	MWD_M	None
332	5562.30	36.75	358.53	29.33	1587.88	4542.42	4738.18	-46.58	4738.41	359.44	3.73	MWD_M	None
333	5591.53	34.63	358.43	29.23	1611.62	4558.73	4755.22	-47.03	4755.45	359.43	2.21	MWD_M	None
334	5620.80	32.71	358.02	29.27	1635.97	4574.24	4771.44	-47.53	4771.68	359.43	2.01	MWD_M	None
335	5649.72	31.49	358.04	28.92	1660.47	4588.91	4786.80	-48.06	4787.04	359.42	1.29	MWD_M	None
336	5679.01	31.44	357.12	29.29	1685.46	4603.47	4802.07	-48.71	4802.32	359.42	0.50	MWD_M	None
337	5708.73	31.64	356.93	29.72	1710.79	4618.23	4817.60	-49.51	4817.85	359.41	0.23	MWD_M	None
338	5737.78	31.67	356.55	29.05	1735.51	4632.67	4832.82	-50.38	4833.08	359.40	0.21	MWD_M	None
339	5766.77	29.44	355.60	28.99	1760.48	4646.58	4847.52	-51.39	4847.79	359.39	2.40	MWD_M	None
340	5795.91	27.64	356.38	29.14	1786.07	4659.72	4861.41	-52.36	4861.69	359.38	1.92	MWD_M	None
341	5825.35	26.89	355.68	29.44	1812.24	4672.44	4874.86	-53.29	4875.15	359.37	0.84	MWD_M	None
342	5854.53	27.34	355.94	29.18	1838.22	4684.98	4888.13	-54.27	4888.43	359.36	0.49	MWD_M	None
343	5883.50	27.60	357.84	28.97	1863.92	4697.65	4901.47	-54.99	4901.78	359.36	0.96	MWD_M	None
344	5912.24	27.77	359.77	28.74	1889.37	4710.45	4914.82	-55.27	4915.13	359.36	0.97	MWD_M	None
345	5941.77	27.64	359.21	29.53	1915.52	4723.65	4928.55	-55.39	4928.86	359.36	0.30	MWD_M	None
346	5971.02	27.38	359.28	29.25	1941.46	4736.63	4942.06	-55.57	4942.37	359.36	0.27	MWD_M	None
347	6000.53	27.41	359.59	29.51	1967.66	4749.69	4955.63	-55.70	4955.95	359.36	0.15	MWD_M	None
348	6029.73	27.69	1.31	29.20	1993.55	4762.74	4969.14	-55.59	4969.45	359.36	0.88	MWD_M	None
349	6059.06	27.62	0.02	29.33	2019.53	4775.91	4982.75	-55.44	4983.06	359.36	0.63	MWD_M	None
350	6088.26	27.80	359.49	29.20	2045.38	4788.98	4996.33	-55.49	4996.63	359.36	0.32	MWD_M	None
351	6117.69	27.61	357.48	29.43	2071.43	4802.08	5010.00	-55.86	5010.31	359.36	0.99	MWD_M	None
352	6146.78	27.48	355.74	29.09	2097.23	4814.81	5023.43	-56.65	5023.75	359.35	0.85	MWD_M	None
353	6176.12	27.44	356.35	29.34	2123.26	4827.58	5036.93	-57.58	5037.26	359.35	0.30	MWD_M	None
354	6205.61	27.56	354.21	29.49	2149.42	4840.37	5050.50	-58.70	5050.84	359.33	1.03	MWD_M	None
355	6234.75	27.37	353.94	29.14	2175.28	4852.89	5063.86	-60.09	5064.22	359.32	0.24	MWD_M	None
356	6263.96	27.52	354.19	29.21	2201.20	4865.43	5077.25	-61.48	5077.63	359.31	0.20	MWD_M	None
357	6293.53	27.37	355.16	29.57	2227.44	4878.18	5090.82	-62.75	5091.21	359.29	0.49	MWD_M	None
358	6322.54	27.53	357.02	29.01	2253.19	4890.81	5104.16	-63.66	5104.56	359.29	0.92	MWD_M	None
359	6351.94	27.49	357.66	29.40	2279.26	4903.72	5117.73	-64.29	5118.13	359.28	0.31	MWD_M	None
360	6381.24	27.31	357.62	29.30	2305.28	4916.56	5131.20	-64.85	5131.61	359.28	0.19	MWD_M	None
361	6410.48	27.54	358.05	29.24	2331.23	4929.41	5144.66	-65.35	5145.07	359.27	0.32	MWD_M	None
362	6434.27	27.52	356.65	23.79	2352.32	4939.86	5155.64	-65.86	5156.06	359.27	0.83	MWD_M	None
363	6456.00	27.50	358.00	21.73	2371.60	4949.41	5165.67	-66.33	5166.09	359.26	0.88	Proj. to TD	

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Company:	ESSO Australia Pty Ltd	Schlumberger
Well:	SNA A26A	
Field:	Moonfish	
Rig:	ISDL 175	9.50 In. Section
State:	Victoria	
EcoScope* Resistivity 1:200 True Vertical Depth Recorded Mode Log (Trip-Out)		

