

ENSCO 102  
Trafalgar

Rig:  
Field:

Log	Log
Run	Run
Del	Del
Sch	Sch
Bot	Bot
Top	Top
Car	Car
Car	Car
Bit	Bit
Type	Type
MUD	
De	De
Fl	Fl
So	So
RM	RM
RM	RM
RM	RM
RM	RM
So	So
RM	RM
Ma	Ma
Cir	Cir
Log	Log
Un	Un
Re	Re
Wit	Wit

Company: Origin Energy Resources Ltd.

Vell: Trefoil-1  
ield: Trefoil  
ig: ENSCO 102

Country: Australia

FMI-DSI-HNGS  
Formation Micro Imager  
1:200 Scale

Location: GDA94 Zone 55  
Well: Trefoil-1  
Company: Origin Energy Resources Ltd.

LOCATION	
GDA94 Zone 55	Elev.: K.B. 39.9014 m
Northings 5,586,346 m	G.L. -68.9 m
Easting 361,028 m	D.F. 39.9014 m
Permanent Datum:	Mean Sea Level
Log Measured From:	Drill Floor (RT)
Drilling Measured From:	Drill Floor (RT)
State: Tasmania	Max. Well Deviation 0.67 deg
	Longitude 145 22' 30.87"E
	Latitude 39 51' 41.58"S

Logging Date	24-Nov-2004
Run Number	Suite-1, Run 8
Depth Driller	3545.1 m
Schlumberger Depth	3527 m
Bottom Log Interval	3527 m
Top Log Interval	2420.1 m
Casing Driller Size @ Depth	9.625 in @ 2421 m
Casing Schlumberger	2420.1 m
Bit Size	8.500 in
Type Fluid In Hole	Seawater/Driscap/Soltex
Density	9.4 lbm/gal
Fluid Loss	3.8 cm3
PH	9.3
Flowline	
RM @ Measured Temperature	0.206 ohm.m @ 25 degC
RMF @ Measured Temperature	0.174 ohm.m @ 25 degC
RMC @ Measured Temperature	0.280 ohm.m @ 25 degC
Source RMF	Pressed
RM @ MRT	0.061 @ 133
RMF @ MRT	0.052 @ 133
Maximum Recorded Temperatures	133 degC
Circulation Stopped	24-Nov-2004
Logger On Bottom	1-Dec-2004
Unit Number	571
Location	AUSL
Recorded By	J. Robertson/C. Bassignana/M. Webb
Witnessed By	Dave Cohen/Mark Tindale

Logging Date		Run 1	Run 2	Run 3
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth				
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
Density				
Fluid Loss				
PH				
Flowline				
RM @ Measured Temperature				
RMF @ Measured Temperature				
RMC @ Measured Temperature				
Source RMF				
RM @ MRT				
RMF @ MRT				
Maximum Recorded Temperatures				
Circulation Stopped				
Logger On Bottom				
Unit Number				
Location				
Recorded By				
Witnessed By				

Run 4

## DEPTH SUMMARY LISTING

Date Created: 7-DEC-2004 9:29:10

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46ZV-XS
Serial Number:	1914	Serial Number:	2336	Serial Number:	74172
Calibration Date:	24-Mar-2004	Calibration Date:	28-Apr-2004	Length:	7324.04 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1051	Conveyance Method:	Wireline
Calibration Cable Type:	7-46V-XS	Calibration Gain:	0.87	Rig Type:	Offshore_Fixed
Wheel Correction 1:	-5	Calibration Offset:	115.00		
Wheel Correction 2:	-5				

## Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	SP-HRLA-PEX-CMR-GR Nuclear Resistivity Pri
Reference Log Run Number:	Suite-1, Run1
Reference Log Date:	24-Nov-2004

## Depth Control Remarks

1. Subsequent Run in Hole. Log correlated to Schlumberger SP-HRLA-PEX-CMR-GR log, dated 24-Nov-0.
2. Primary depth reference IDW-E.
3. Several correlation passes completed during the run. Depth adjustments made in real time between pretests.
4. See correlation passes presented in print for on depth Gamma Ray correlations.
- 5.
- 6.

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## OTHER SERVICES1

OS1: SP-HRLA-PEX-CMR-G  
OS2: VSI-GR  
OS3: MDT-GR  
OS4: MSCT-GR  
OS5:

## REMARKS: RUN NUMBER 1

Subsequent run in hole. Log correlated to Run 1, SP-HRLA-PEX-CMR-GR, 24 November 2004.
Toolstring run as per tool sketch, with FMI centralized by calipers and DSI centralised using 4 CMEZs.
The main pass was logged from 3527m to casing shoe.
The repeat section was logged from 3485m to 3385m.
EMEX power for the FMI Image was turned off just below the casing shoe.
FMI image data is affected where tension overpulls occurred in washed out sections of the hole: 3405m, 3416m, 3485m (repeat).
Speed correction was applied in playback.
FMI was logged in EmexAuto_GainManu for the logging interval.
Maximum hole deviation from Sperry Sun Survey.







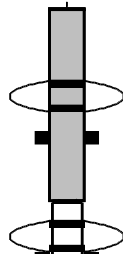
Maximum recorded temperature was 133.3 degC from thermometers in logging head.

Mud data taken from Baroid Mud Report, 23-NOV-2004, from flowline sample taken at 20:00.

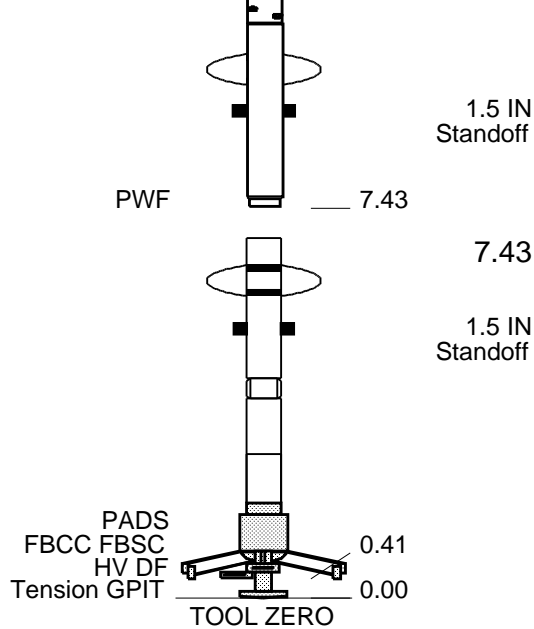
Additional mud data: PV/YP = 49degC/51lbs/100ft2, Gels = 3/4/7 lbs/100ft2, LGS/HGS = 5.0/0.9%.

RUN 1					
SERVICE ORDER #:		12C0-301			
PROGRAM VERSION:		0 m			
FLUID LEVEL:					

EQUIPMENT DESCRIPTION

RUN 1				
SURFACE EQUIPMENT				
GSR-U 2003 WITM (DTS)-A 964				
DOWNHOLE EQUIPMENT				
LEH-QT 1519 LEH-QT 1519			32.36	
DTPC-A ECH-KJ 64 DTPC-A 64			31.47	
DTC-H 8457 ECH-KH DTCH0-A DTCH1-A	CTEM TelStatus ToolStatu 	28.40 27.76	29.64	
DTA-A 8351 ECH-KE 8351 DTA-A 8351			27.76	
HNGS-BA HNGS-BA 28 HNSH-BA 28	Upper_1 Lower_2 	25.84 25.63	26.55	
HNGC-A HNGH-A 3	HNGC Stat 	23.51	24.05	
DSST-B SPAC-B 8056 ECH-SD 8038 SMDR-BD 8094 SSIJ-BA 8142 SMDX-AA 8063			22.98	
			1.5 IN Standoff	
			1.5 IN Standoff	

FBST-B  
ECH-MRA 4742  
FBCC-A 794  
AH-185 909  
FBSH-A 855  
GPIC-AC 735  
FBSC-B 858  
FBSS-B 830



MAXIMUM STRING DIAMETER 6.63 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

Client: Origin Energy Resources Ltd.

Well: Trefoil-1

Field: Trefoil

State: Tasmania

Country: Australia

Drawing Date: 12/2/2004

Rig Name: ENSCO 102

Reference Datum: Mean Sea Level

Elevation: 39.6 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	36.000	Borehole Segment	
					0.0	30.000	Casing String, 310 lb/ft	
					142.6	30.000	Casing Shoe	
					142.6	26.000	Borehole Segment	
					0.0	20.000	Casing String, 133 lb/ft	
					214.6	20.000	Casing Shoe	
					214.6	16.000	Borehole Segment	
					0.0	13.375	Casing String, 54.5 lb/ft	
					659.6	13.375	Casing Shoe	
					659.6	12.250	Borehole Segment	
					0.0	9.625	Casing String, 43.5 lb/ft	

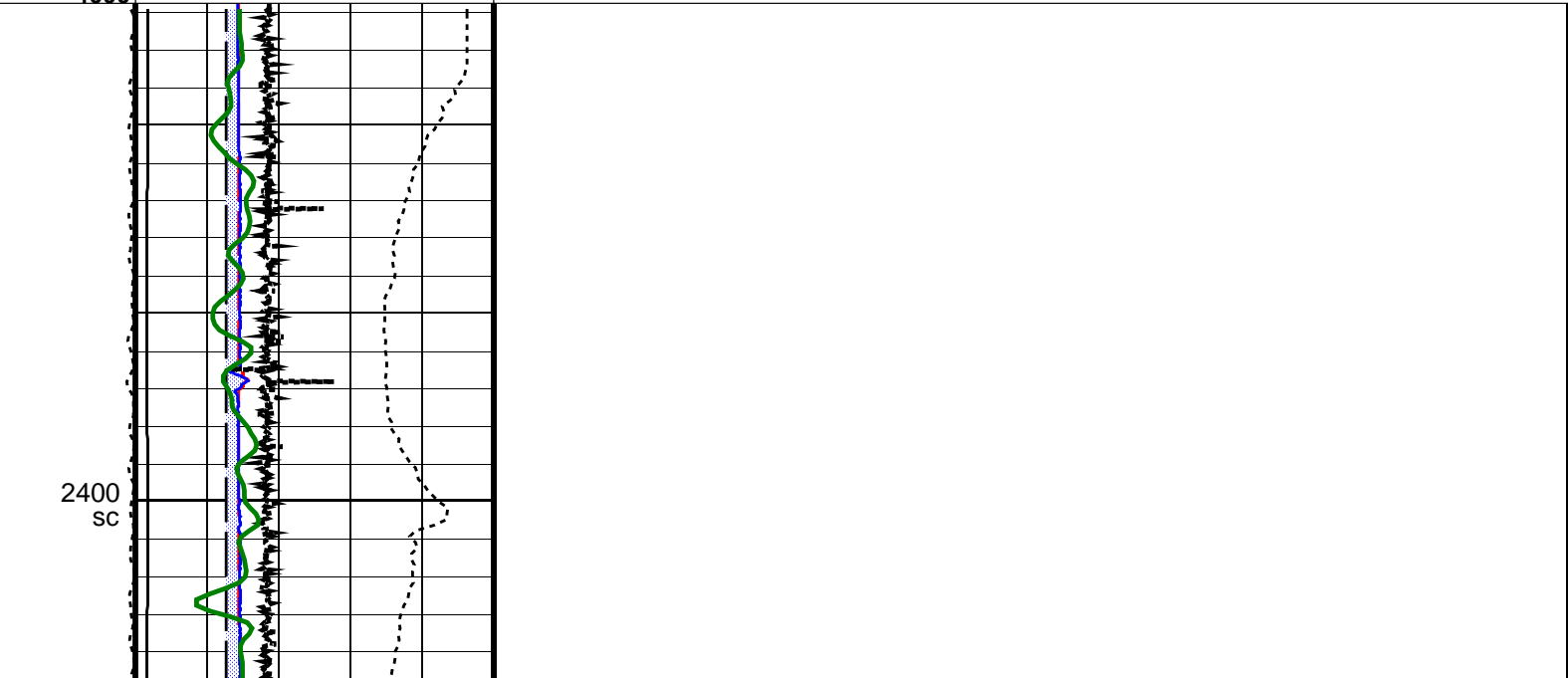


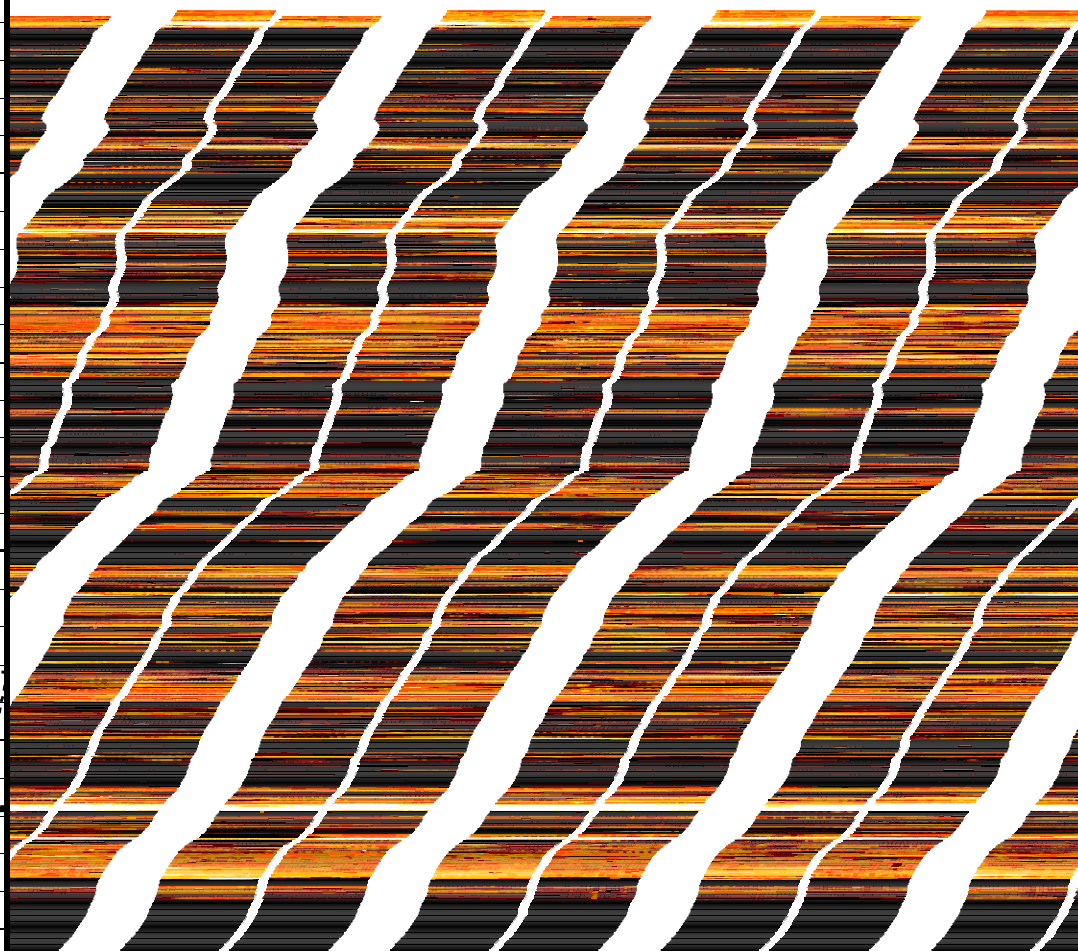
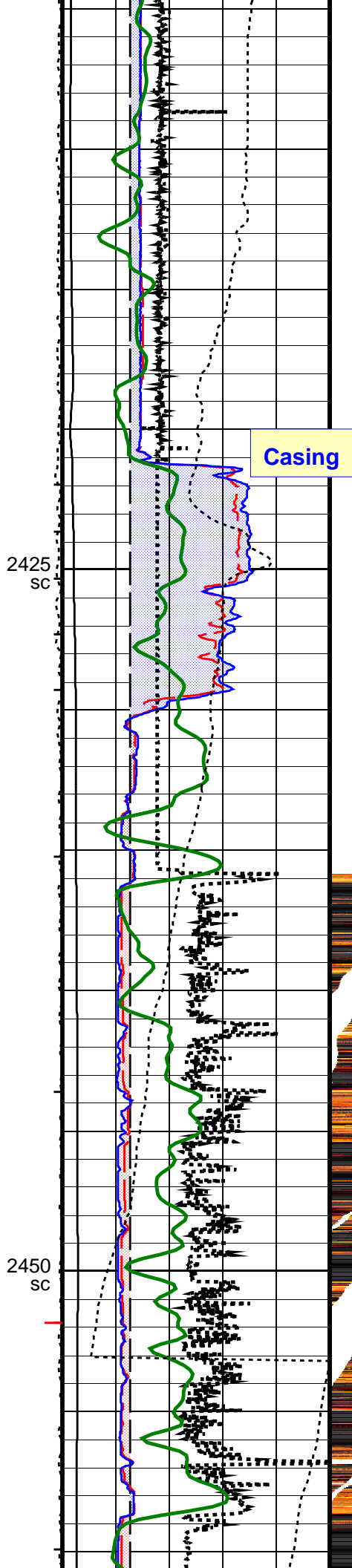
FBST-B	12C0-301	DSST-B	12C0-301
HNGC-A	SPC-2602-NUCL	HNGS-BA	SPC-2602-NUCL
DTA-A	12C0-301	DTC-H	12C0-301
DTPC-A	12C0-301		

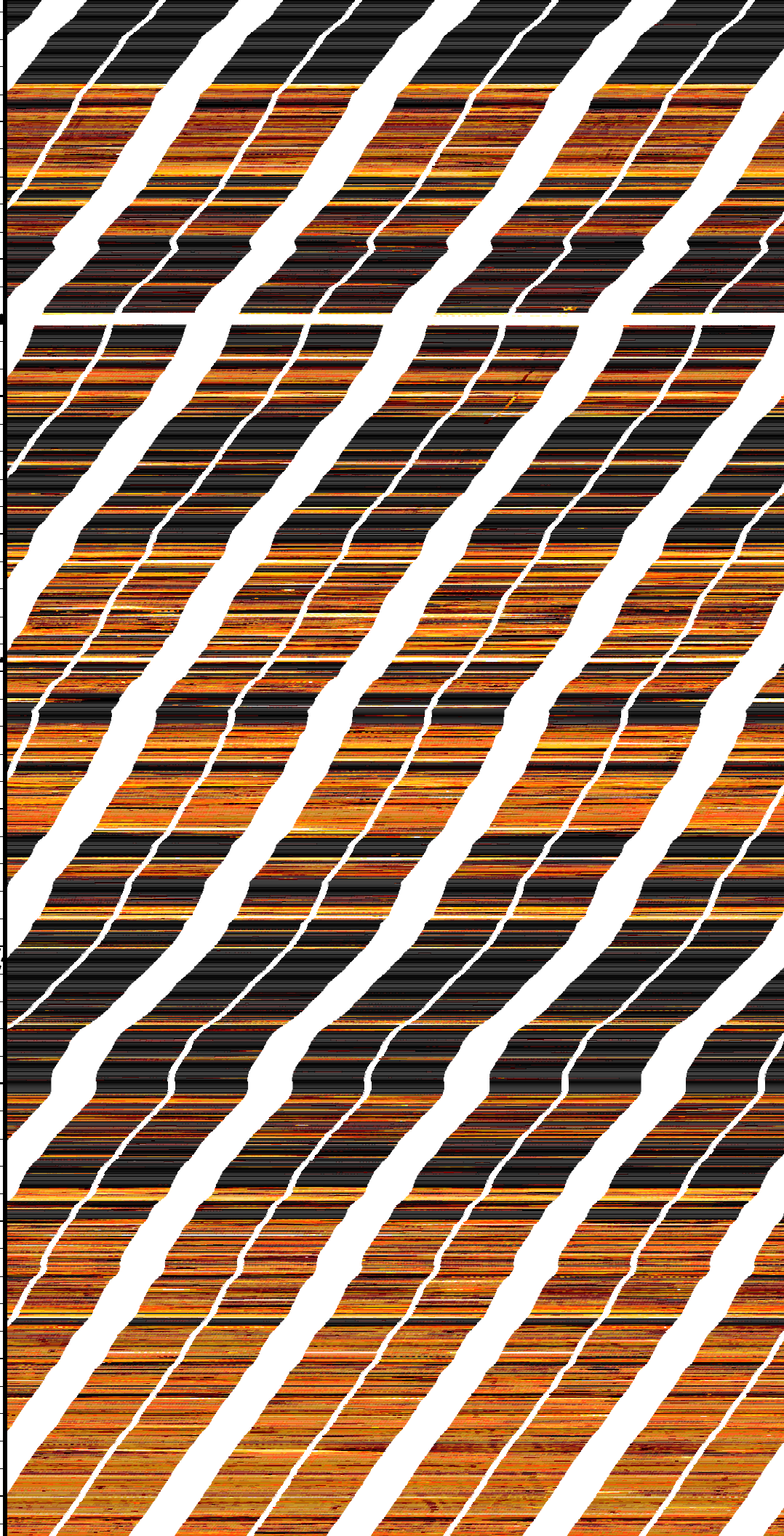
PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
  - Integrated Cement Volume Minor Pip Every 0.1 M3
  - Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

	<div>HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 200 FMI Correlation Resistance (LOG) (FBCR) 2 (KOHM) 2000 Pad One Azimuth (P1AZ_FBST) -40 (DEG) 360 Hole Azimuth (HAZIM) -40 (DEG) 360 Deviation (DEVIM) 0 (DEG) 10 Caliper 2 (C2) 6 (IN) 16 Caliper 1 (C1) 6 (IN) 16 Undergauge Washout</div>	<div>92.0633 103.8480 115.2570 152.1330 184.7410 210.1210 232.1580 252.4640 272.8400 290.6150 307.9280 324.8500 344.7100 368.9250 409.1260 494.7130 FBST/PADA (FBAA_P) (----</div>
<div>Tension (TENS) (LBF) 7000 4000</div>	<div>Bit Size (BS) 6 (IN) 16</div>	<div>Tool Rotation (RB_FBST) (DEG) -180 180</div>

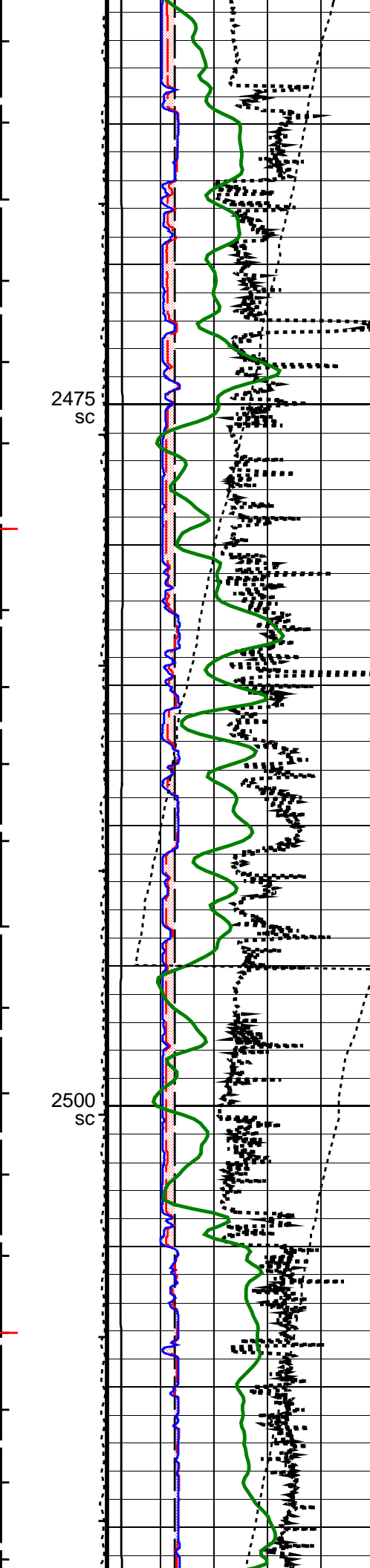


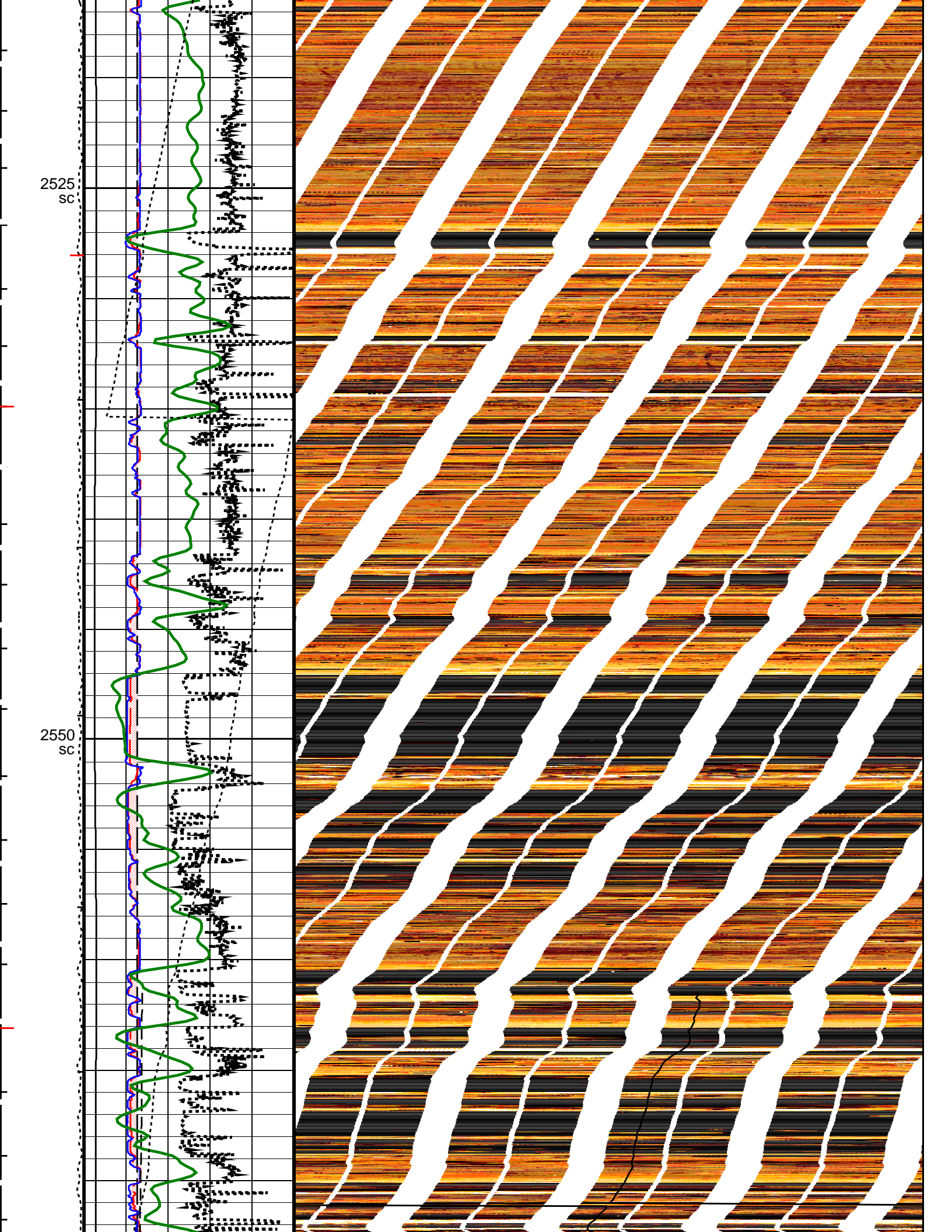




2475  
SC

2500  
SC





2575  
SC

2600  
SC

2625  
SC

TEX8

P1AZ\_FBST

RB\_FBST

HSGR

HAAM

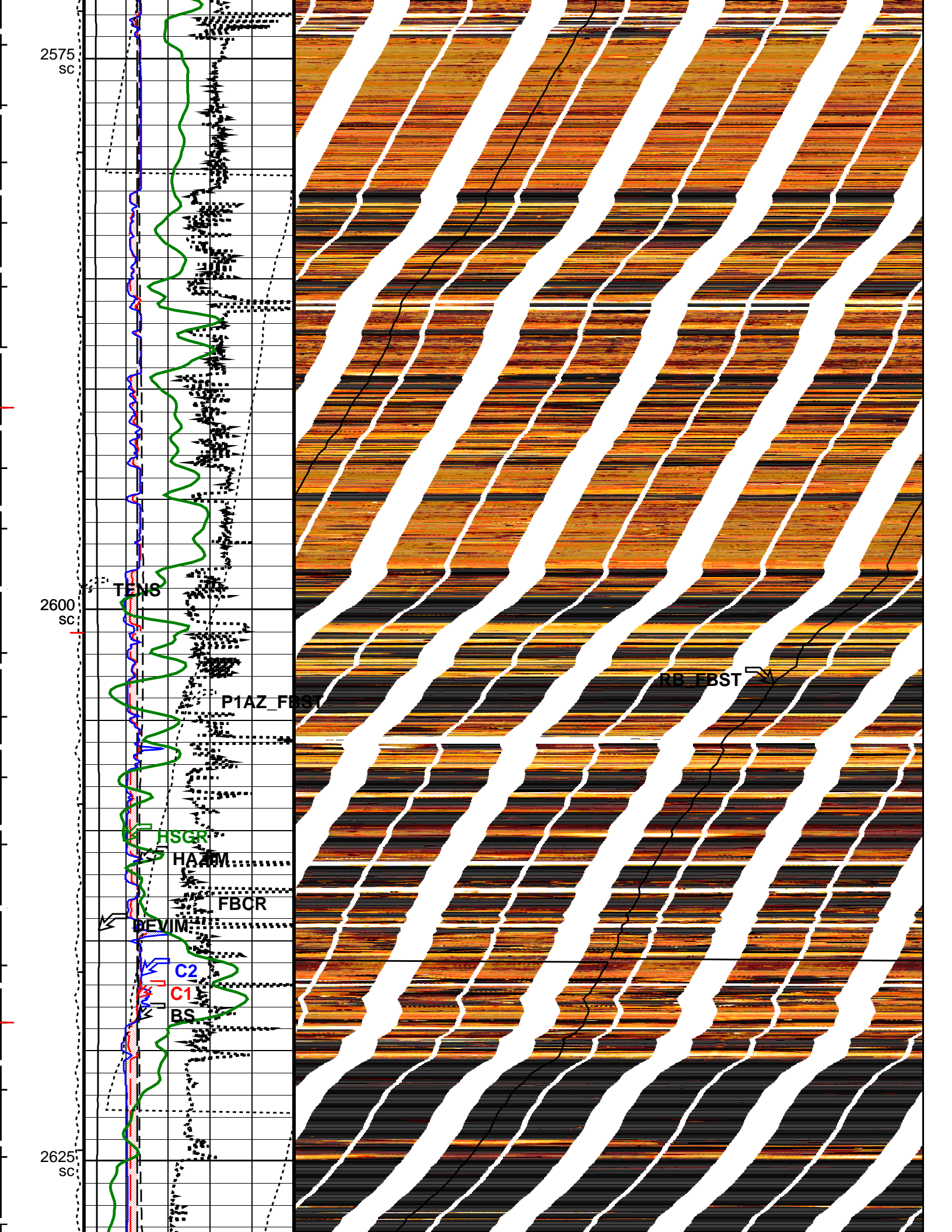
FBCR

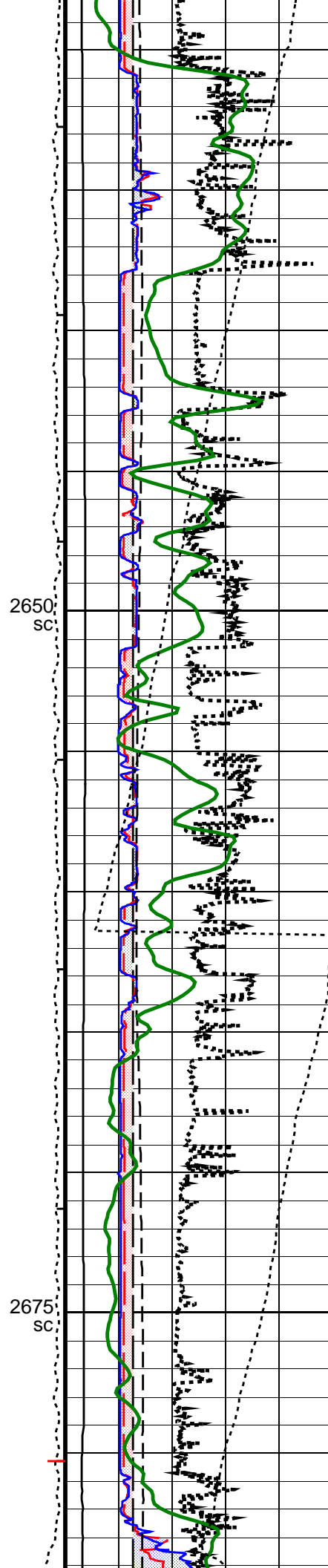
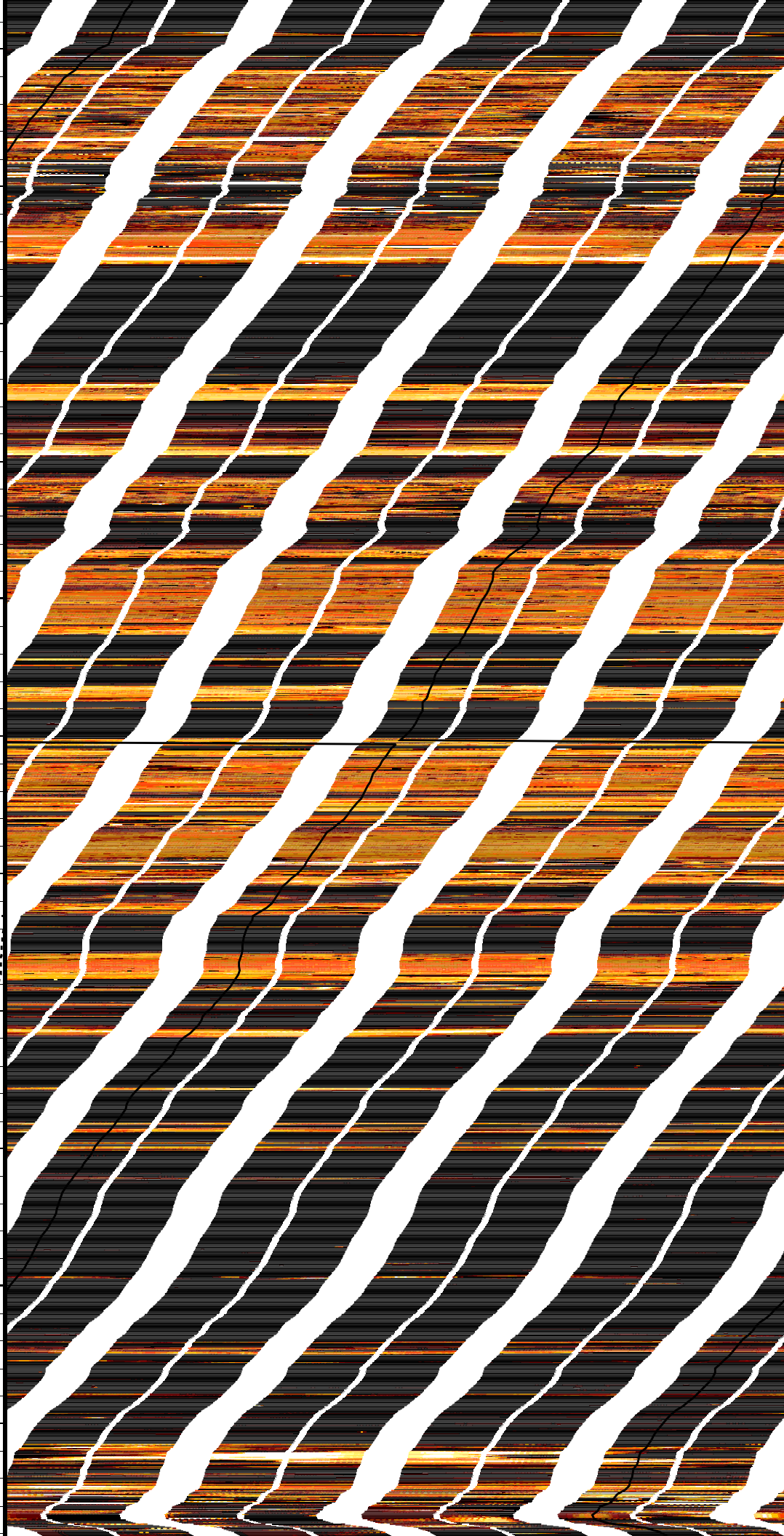
DEVIM

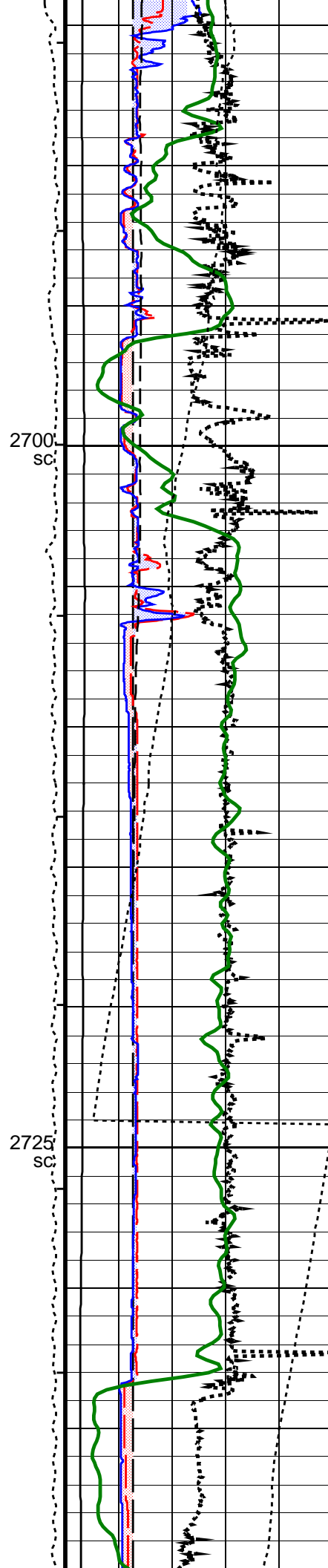
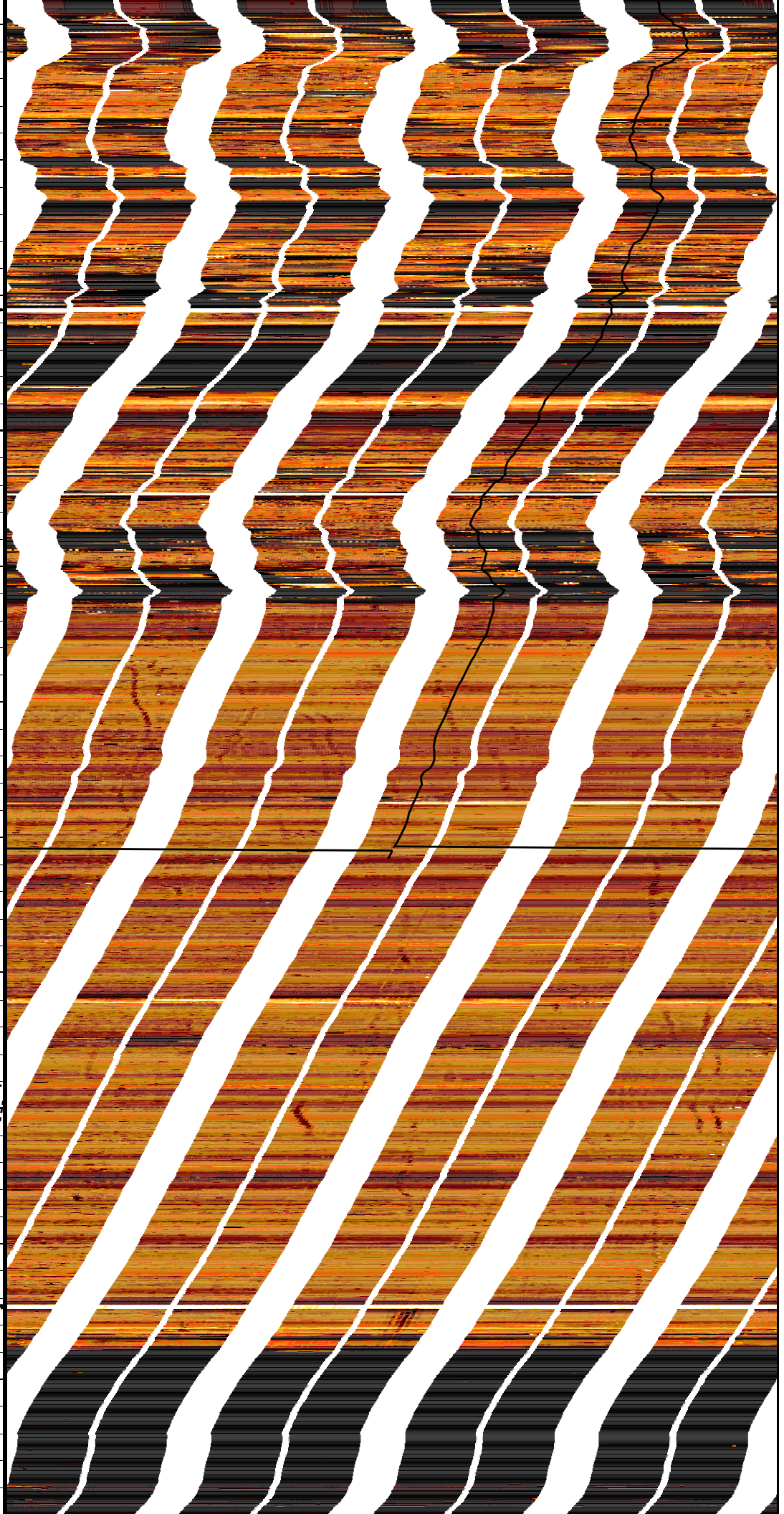
C2

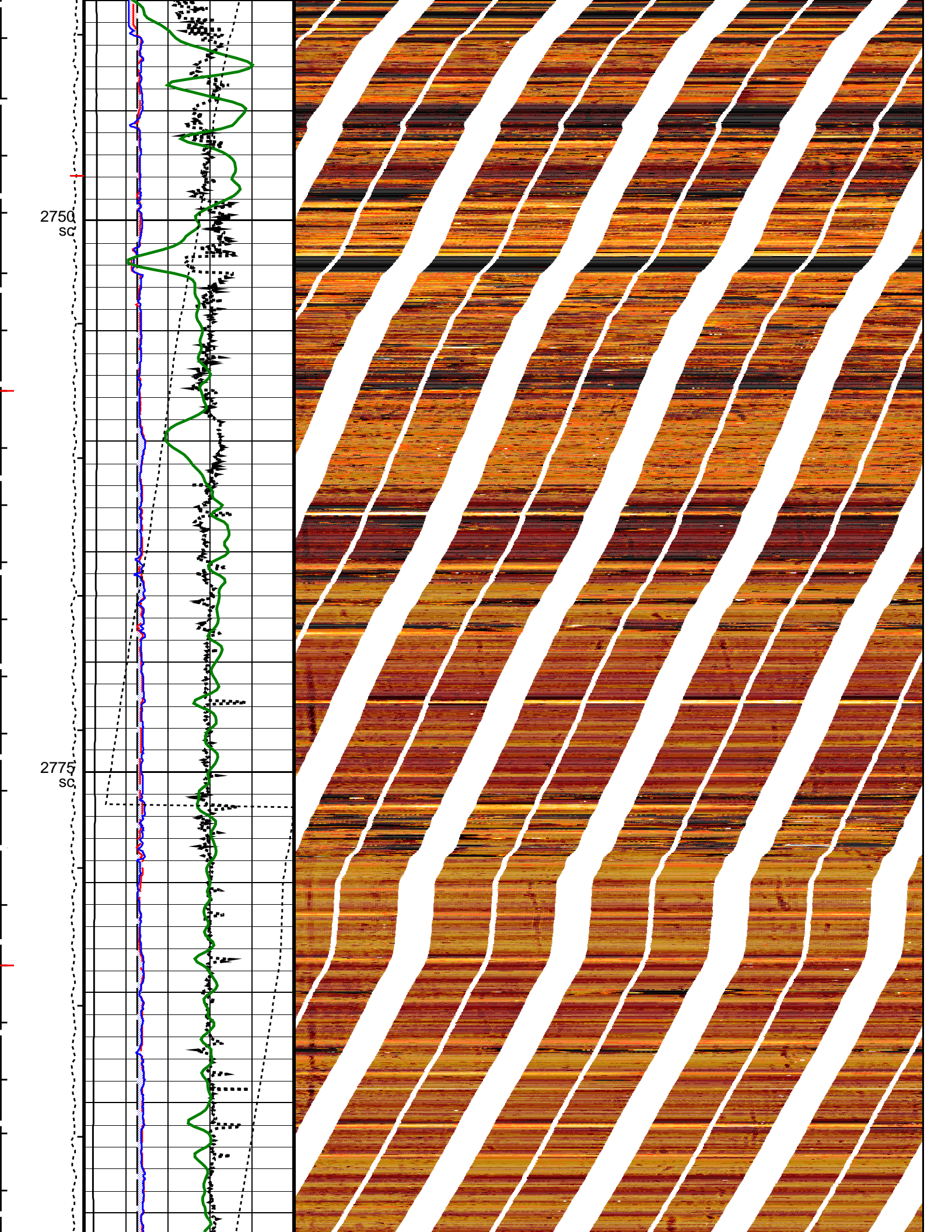
C1

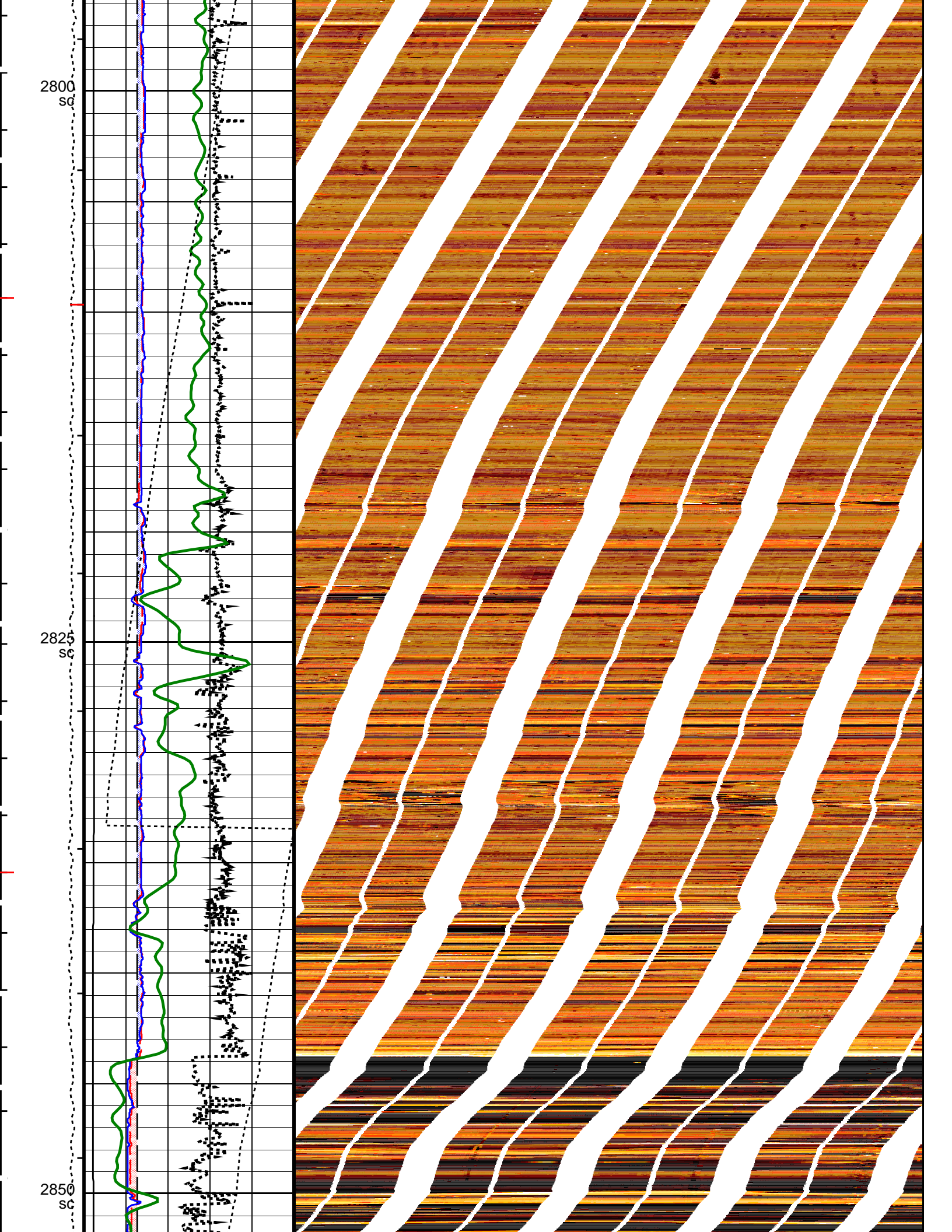
BS

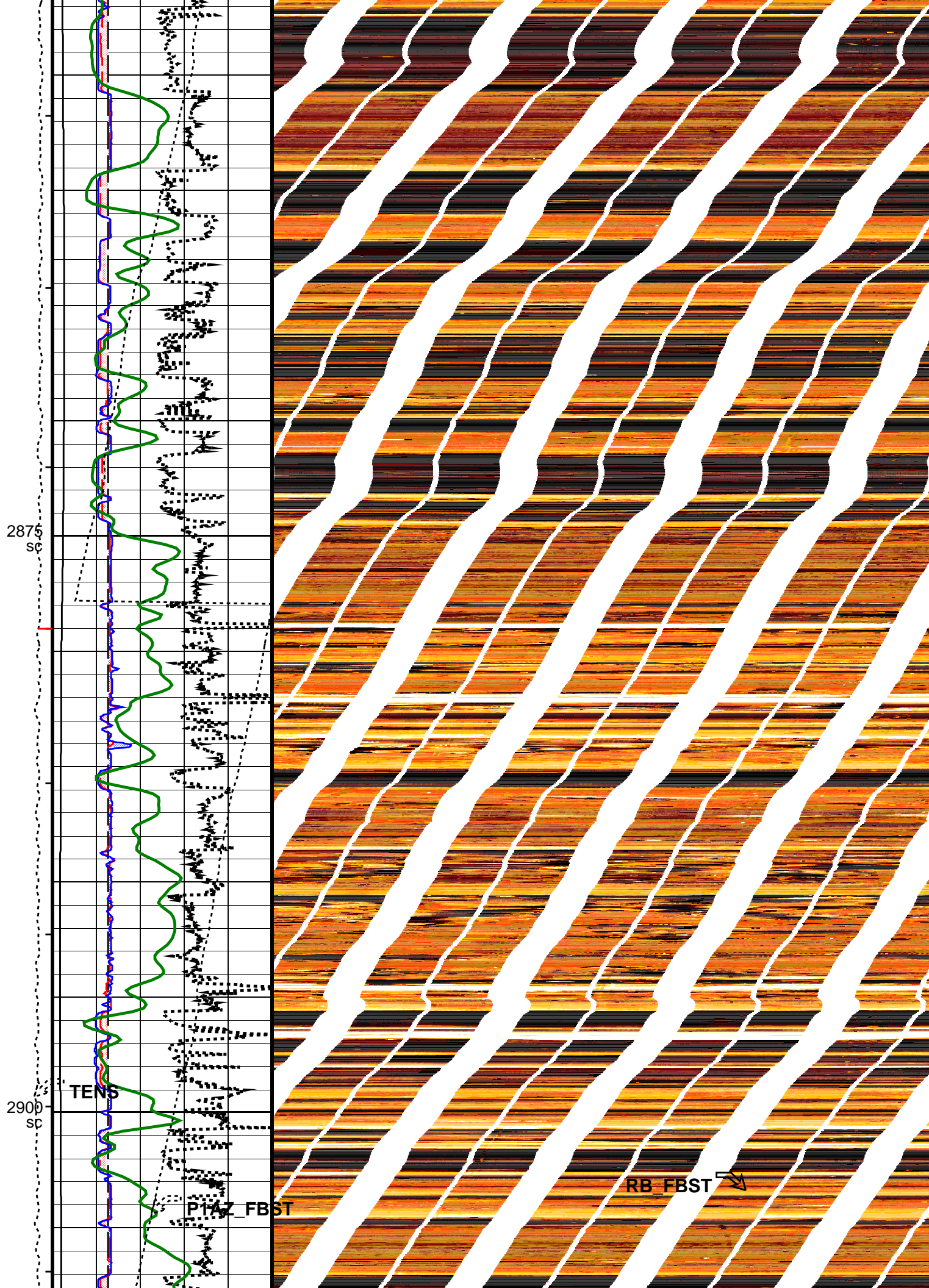


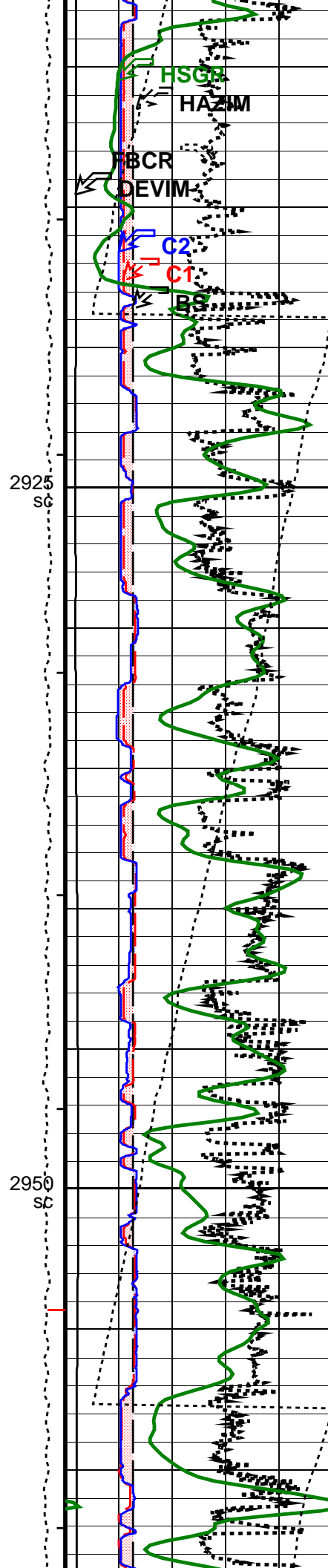
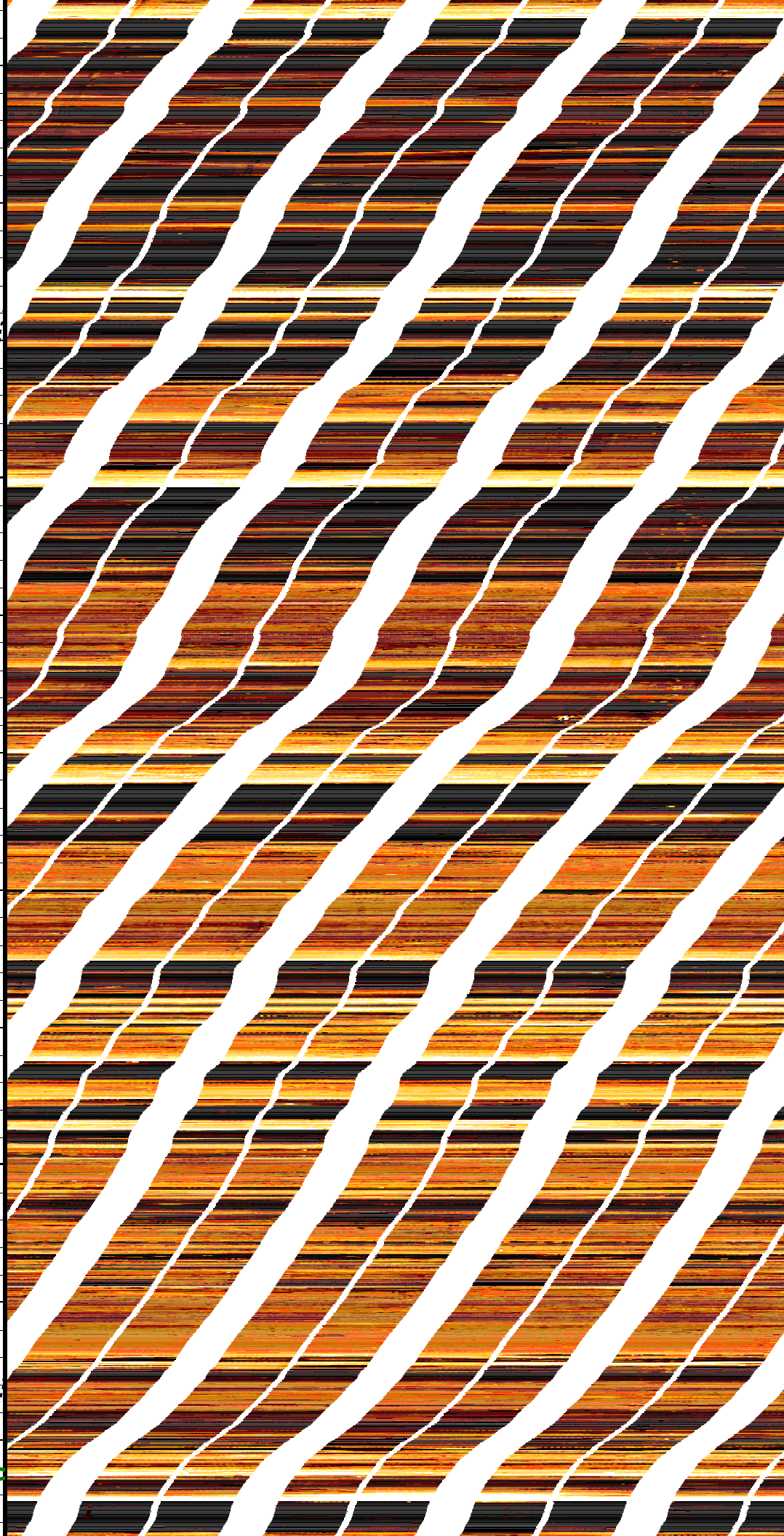


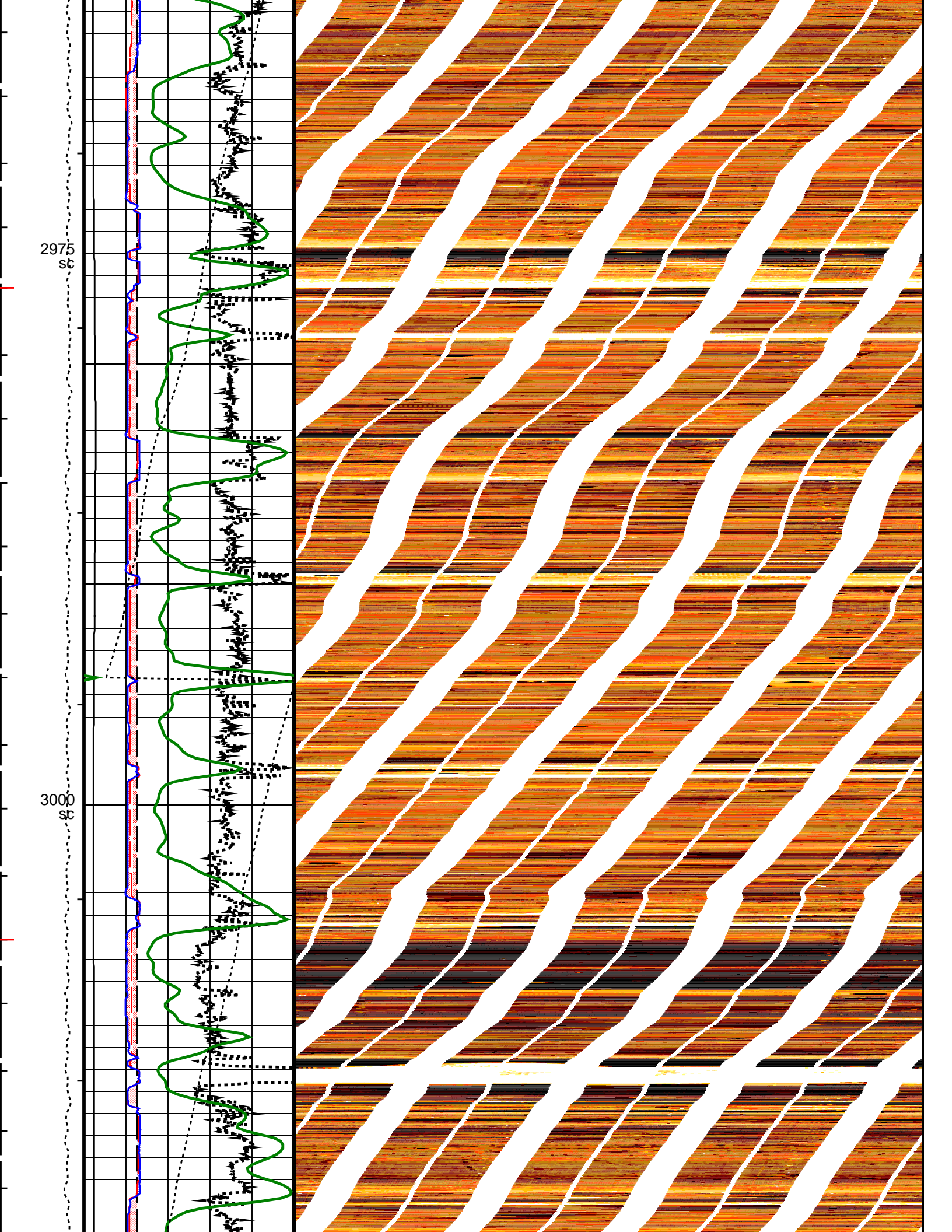


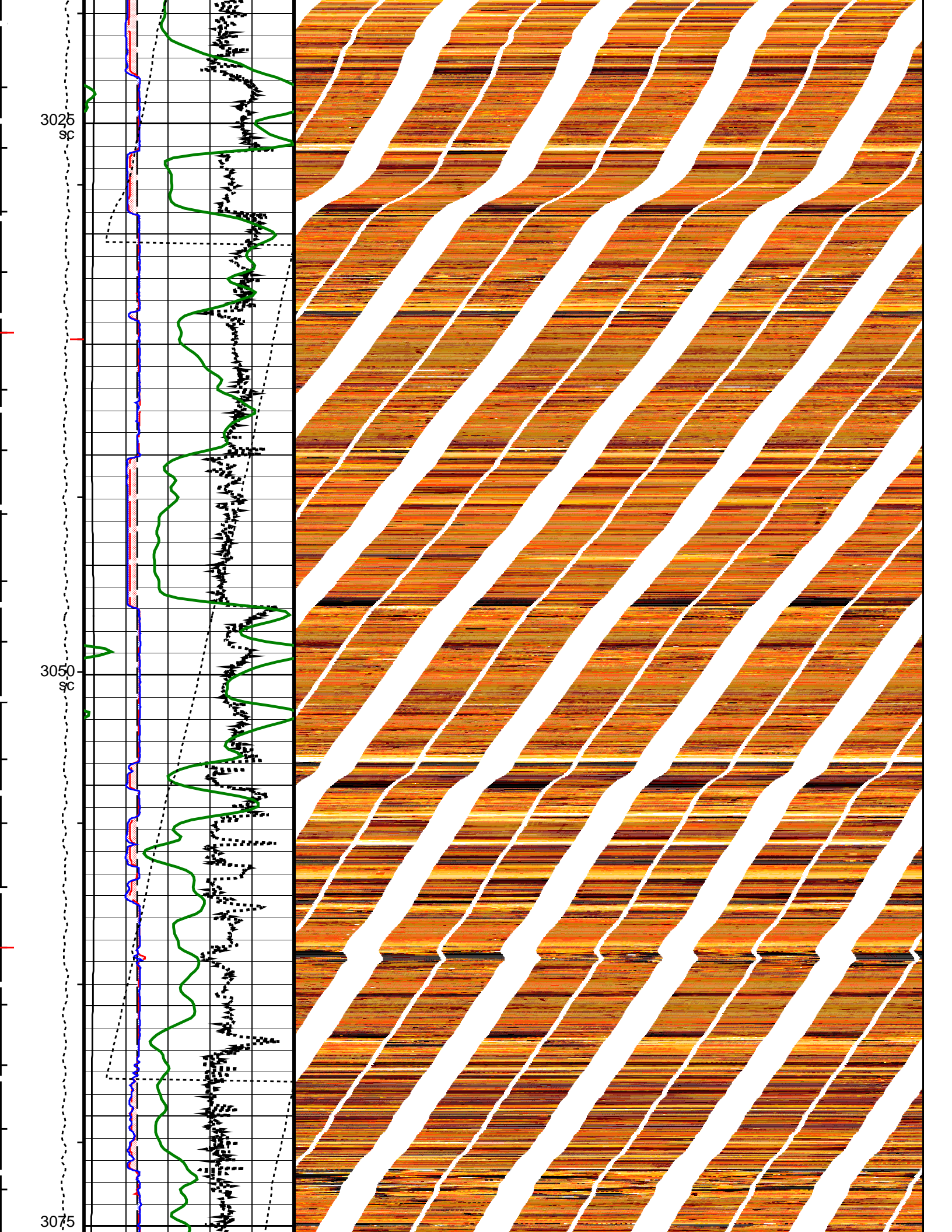


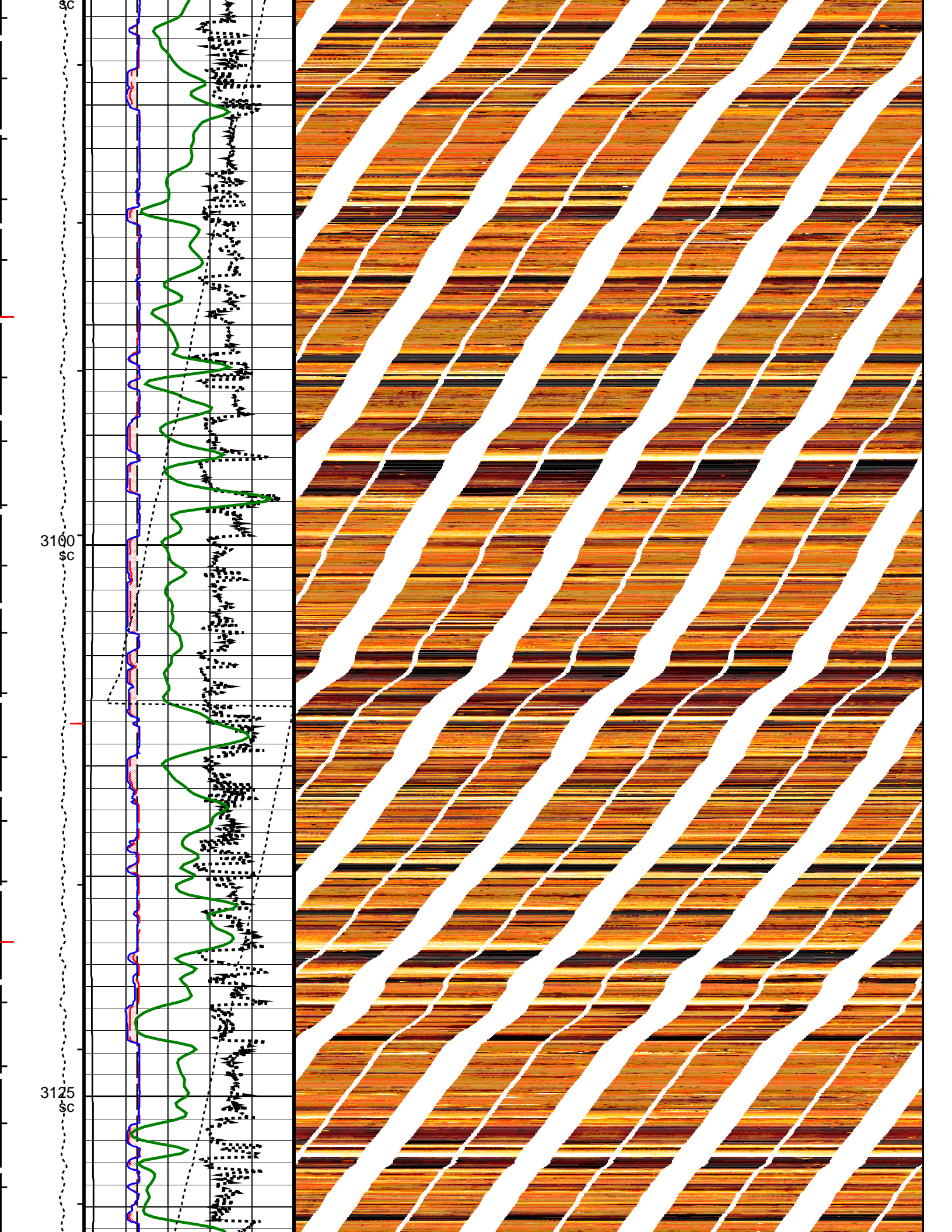


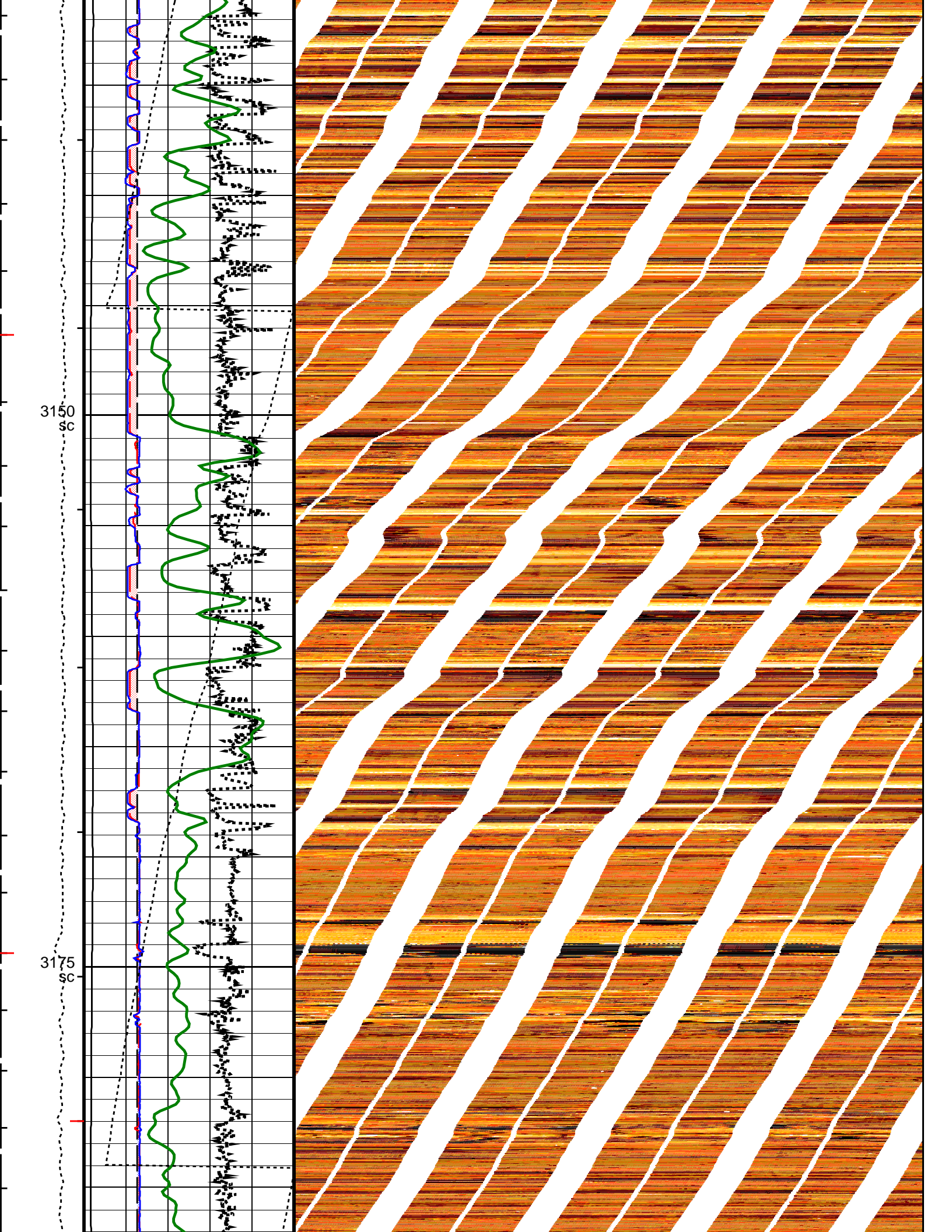


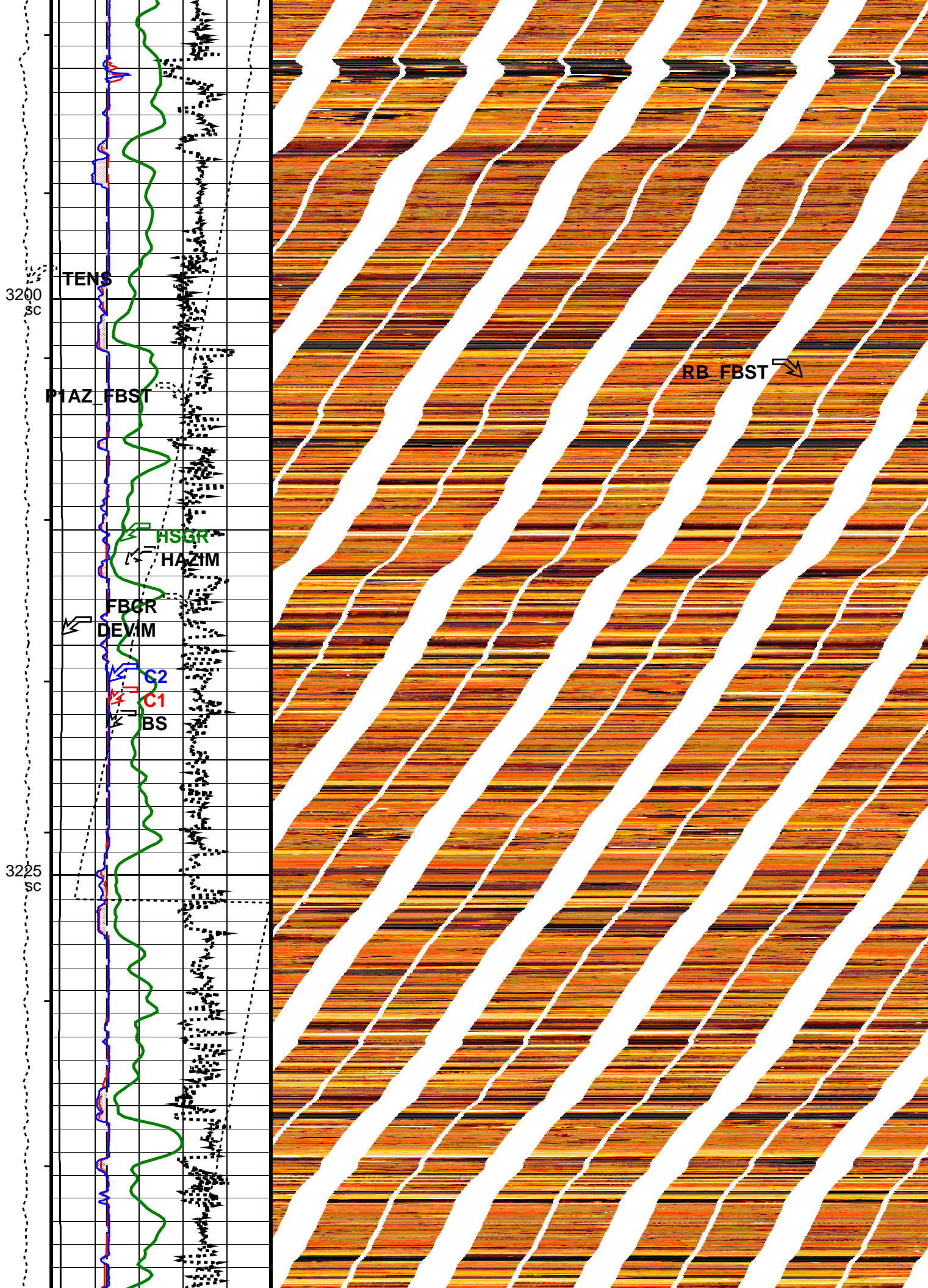


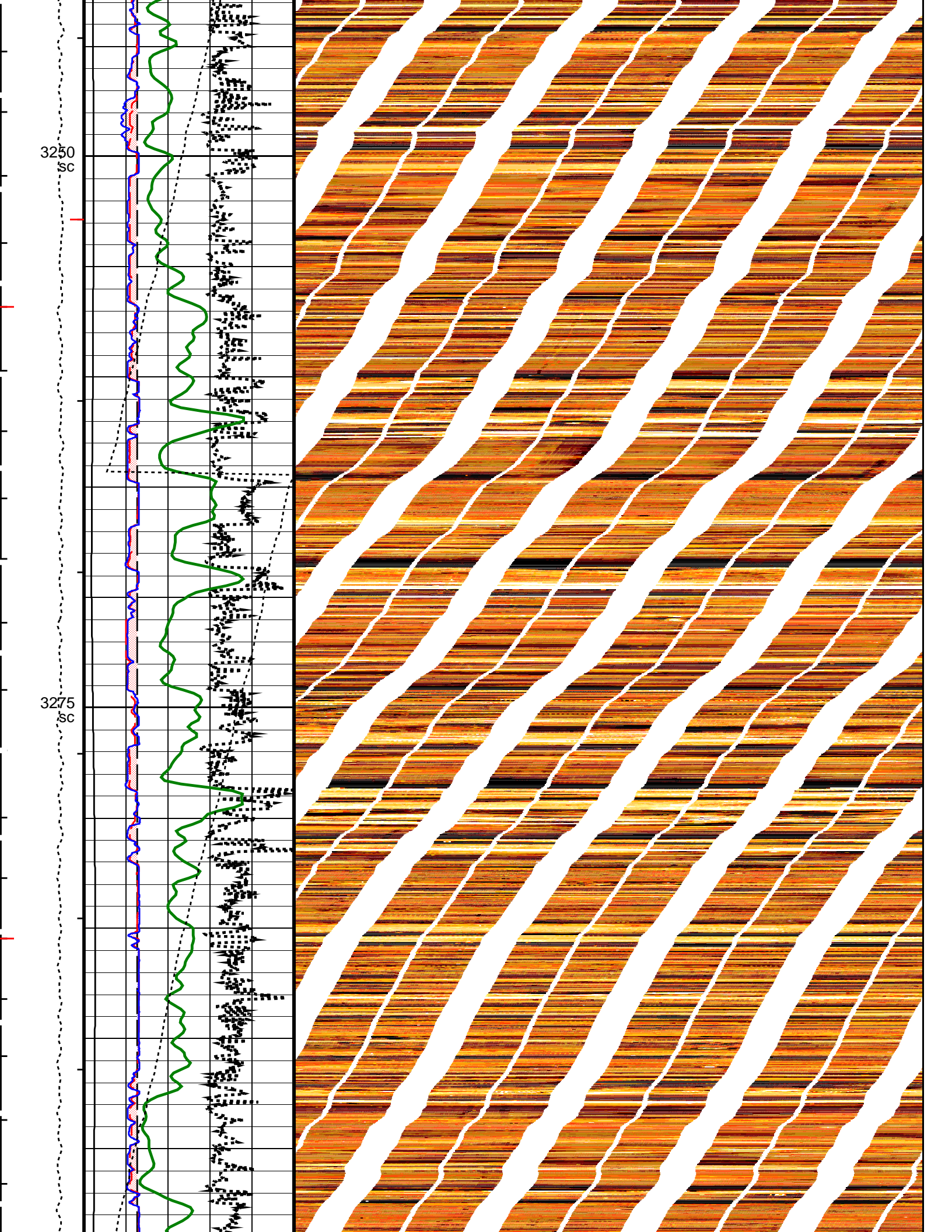


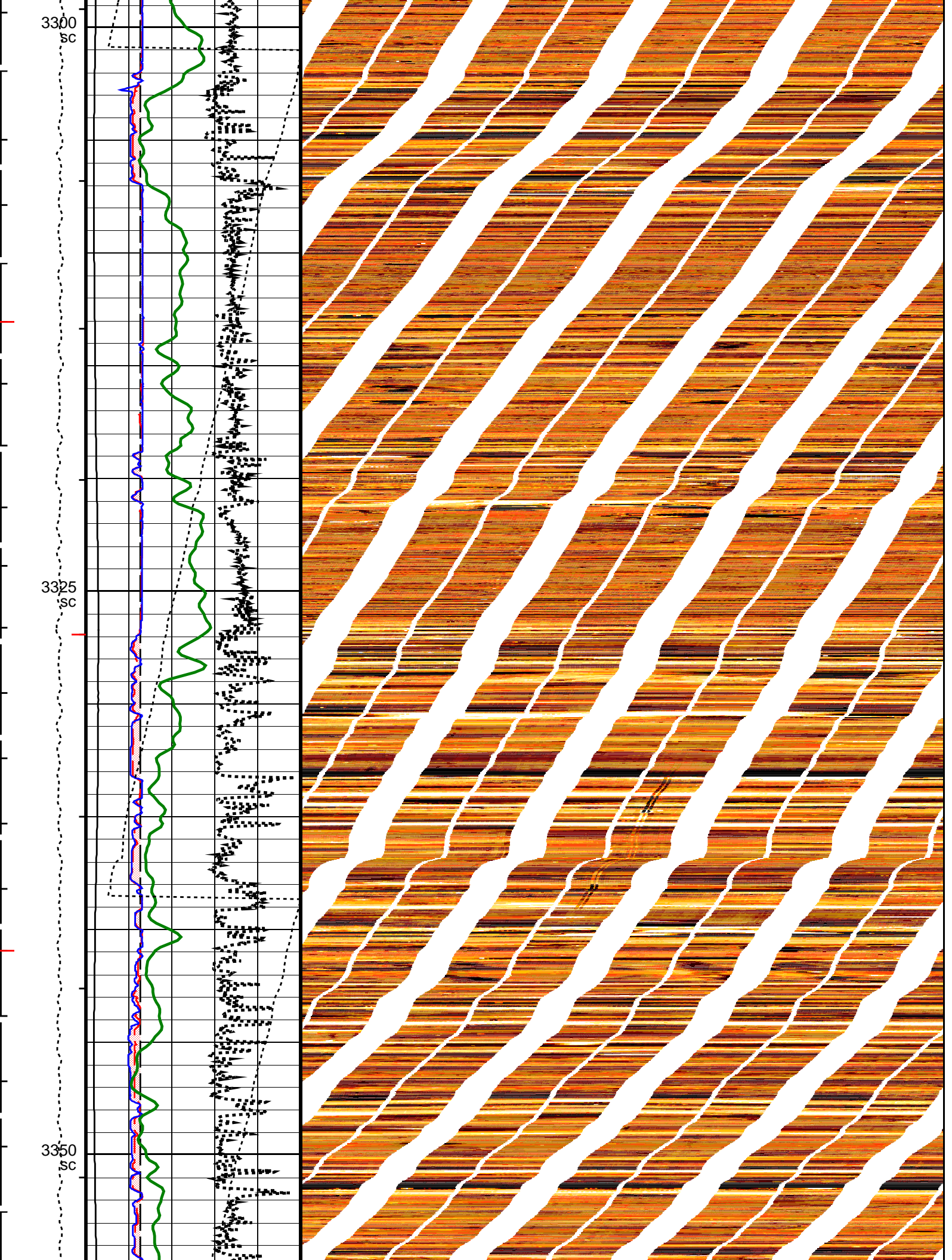


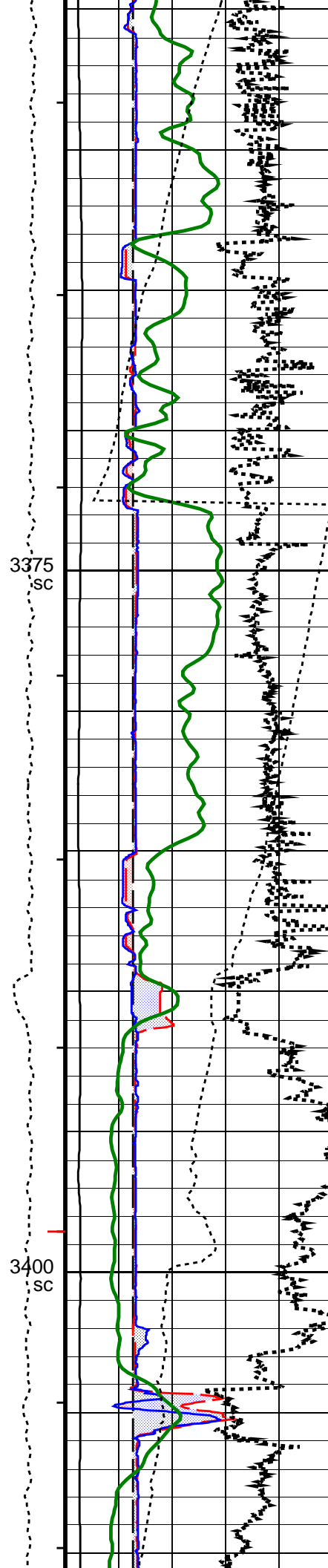
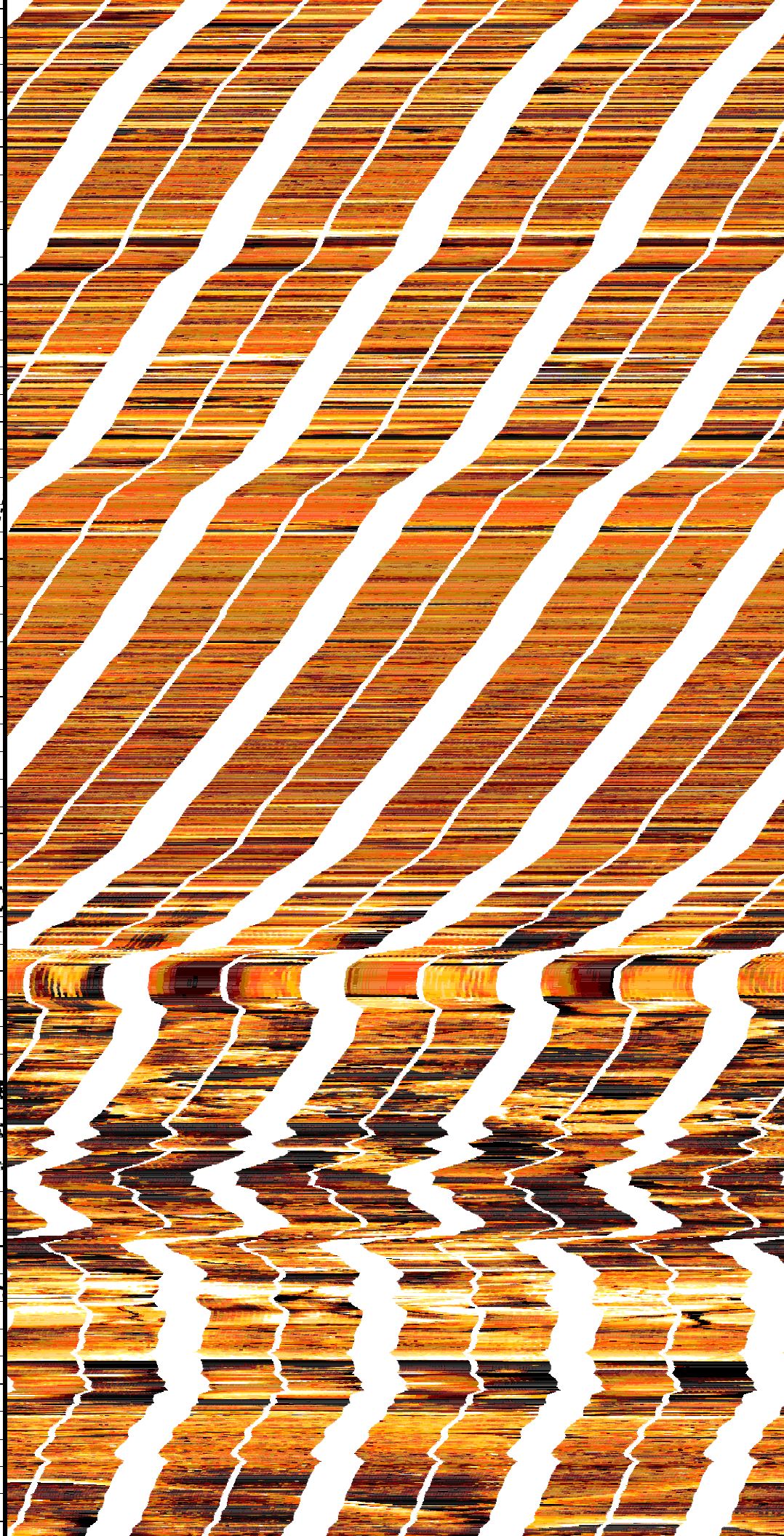


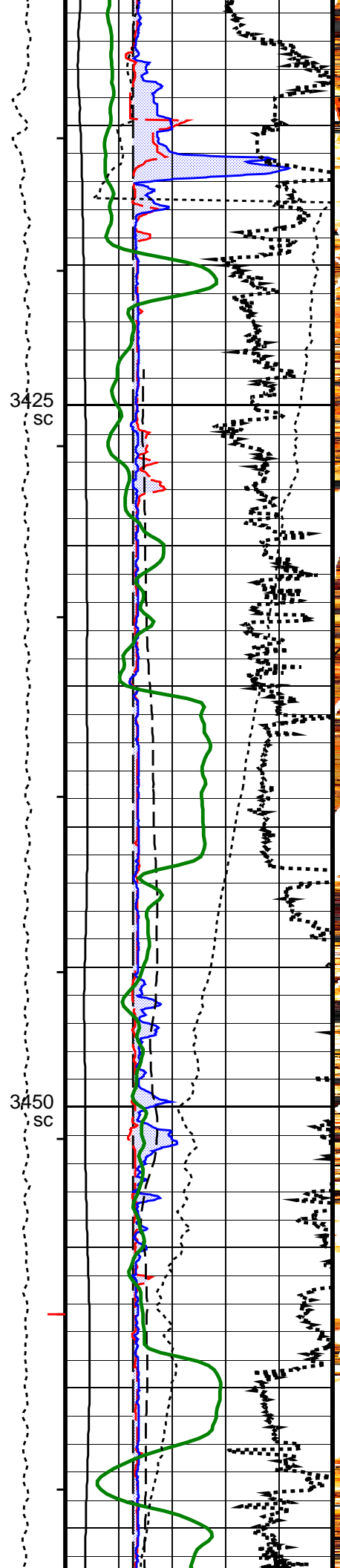
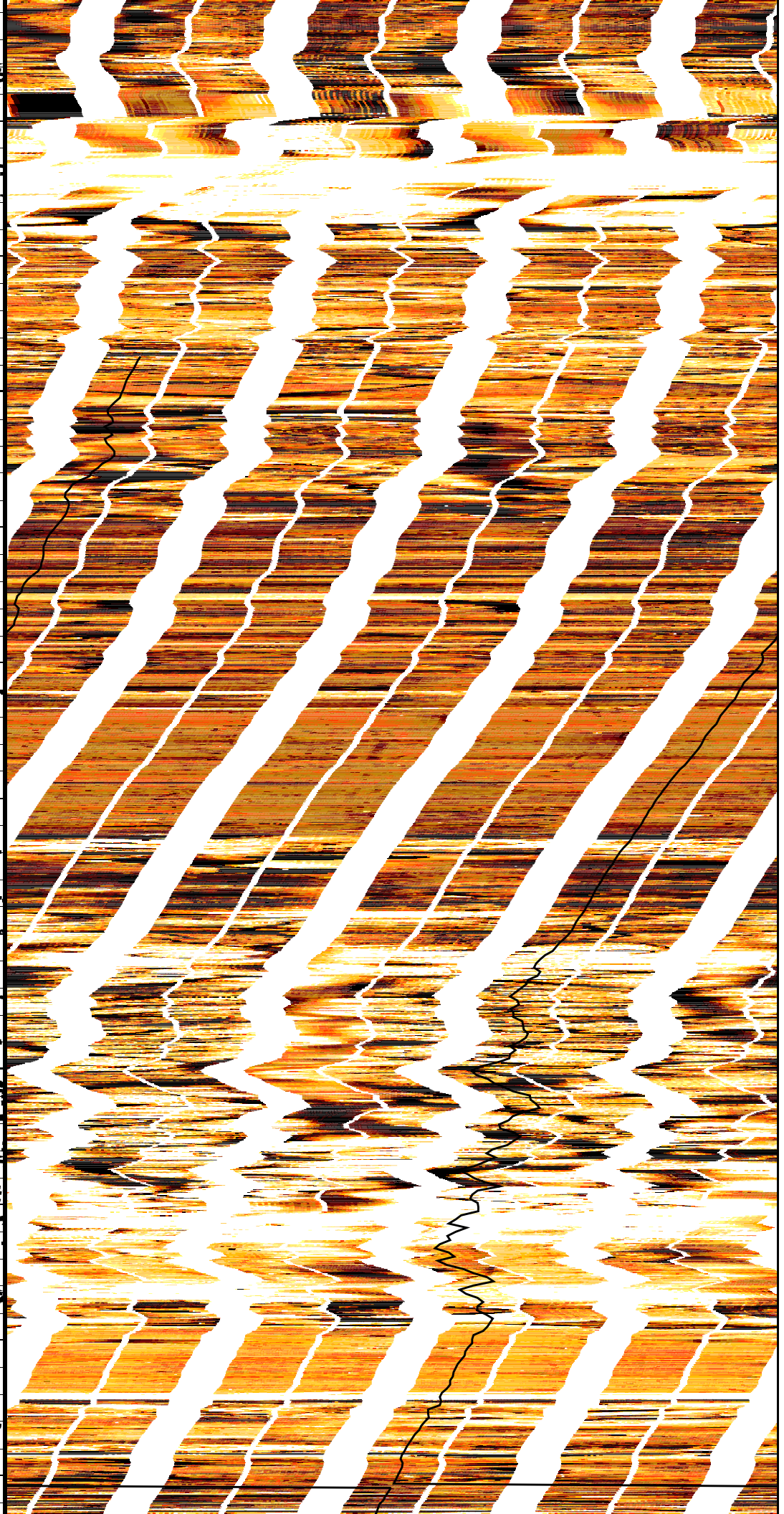












3475  
SC

3500  
SC

TENS

P1AZ FBST

FR MSGR

FBCR

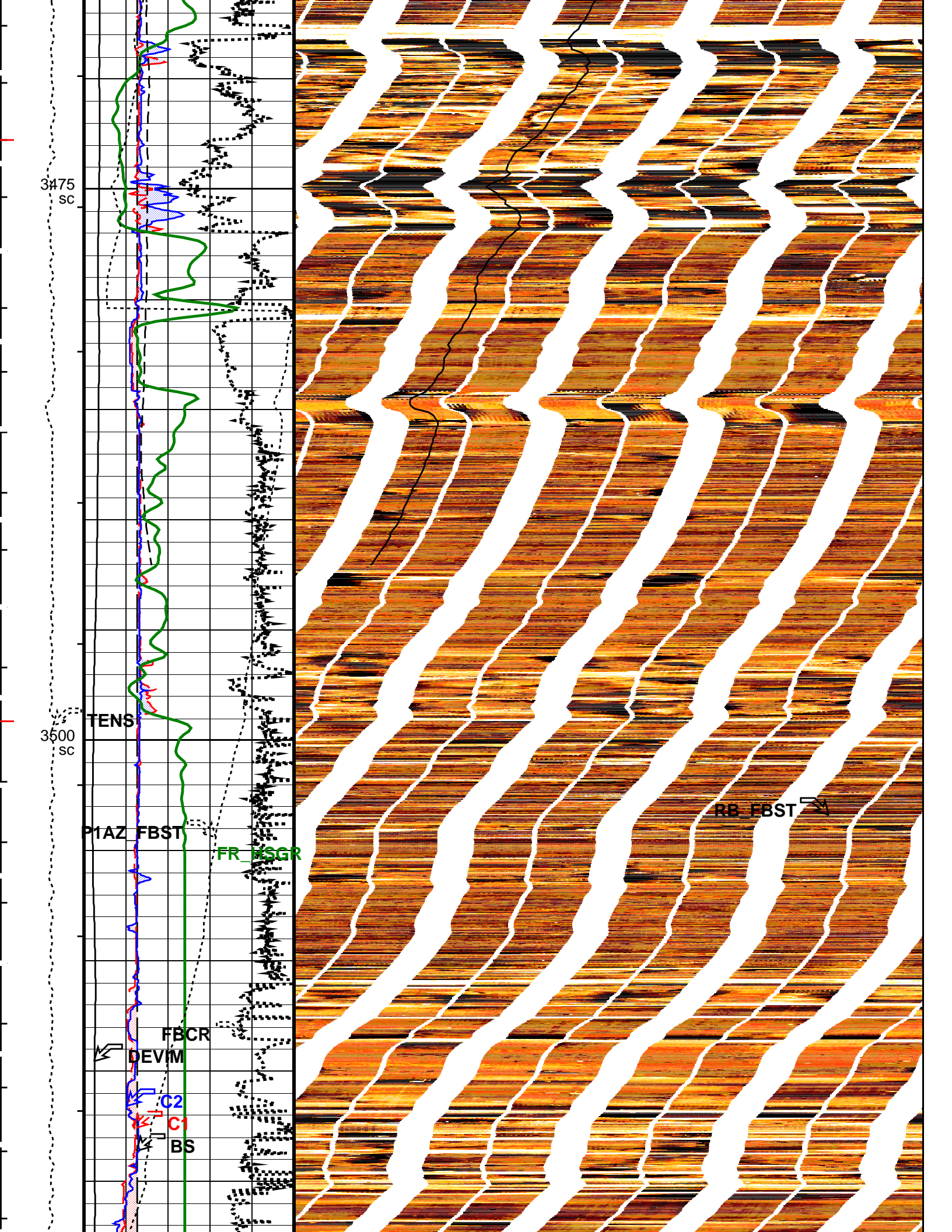
DEVIM

C2

C1

BS

RB FBST





Tension (TENS) (LBF)	Bit Size (BS)		Tool Rotation (RB_FBST)																
	6	(IN)	16	-180															180
7000																			
4000																			
	Washout			92.0633	103.8480	115.2570	152.1330	184.7410	210.1210	232.1580	252.4640	272.8400	290.6150	307.9280	324.8500	344.7100	368.9250	409.1260	494.7130
				FBST/PADA (FBAA_P)															
				(----															
	Undergauge																		
	Caliper 1 (C1)																		
	6	(IN)	16																
	Caliper 2 (C2)																		
	6	(IN)	16																
	Deviation (DEVIM)																		
	0	(DEG)	10																
	Hole Azimuth (HAZIM)																		
-40	(DEG)	360																	
Pad One Azimuth (P1AZ_FBST)																			
-40	(DEG)	360																	
FMI Correlation Resistance (LOG) (FBCR)																			
2	(KOHM)	2000																	
HNGS Spectroscopy Gamma Ray (HSGR)																			
0	(GAPI)	200																	

#### PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

FMI Image Equalised .

Resistive (White) to Conductive (Black)

Format: FMI\_IMAGE\_200 Vertical Scale: 1:200

Graphics File Created: 02-Dec-2004 10:55

OP System Version: 12C0-301

MCM

FBST-B	12C0-301	DSST-B	12C0-301
HNGC-A	SPC-2602-NUCL	HNGS-BA	SPC-2602-NUCL
DTA-A	12C0-301	DTC-H	12C0-301
DTPC-A	12C0-301		

Speed Corrected Depth Log

Indexed to Speed Corrected Depth in this Playback

## Input DLIS Files

02-Dec-2004 06:55

## Output DLIS Files

DEFAULT

FMI\_DSI\_NGS\_085PUP

FN:77

PRODUCER

02-Dec-2004 10:54

Parameter Insert Created: 4-DEC-2004 12:41

## Parameters

DLIS Name	Description	Value	
FBST-B: Full-Bore Scanner – F			
ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
EGCO	FMI EMEX and GAIN Correction	NO	
FBCD	Correct Dip Buttons Values by EMEX and Gain	OFF	
FBEF	FMI EMEX filtering activation	OFF	
FBMV	FMI EMEX maximum voltage calculation	OFF	
FDBD	FMI Dead Buttons detection	AUTO	
FDBP	FMI Dead Buttons Patching	OFF	
FDFL	FMI DSP Filter Length	1	
FIEQ	FMI Image Equalisation	ON	
FIGA	FMI Image Gain	1	
FIOF	FMI Image Offset	0	
FLM	FMI Logging Mode	8PAD	
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON	
GLM	GPIT Logging Mode	DIPM	
GMOD	Gain Mode	MANU	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	12.4914	DEG
MRTE	Magneto Reference Temperature	31	DEGC
RBS	Resistivity Button Selection	AUTO	
RBSI	Auto RBS Change Interval	10	
SOFF	Standoff	–1	IN
TEMS	GPIT Temperature Sensor Used	BOTH	
XGAI_FBST	Gain Value in Manual Mode	0_dB	
XGMO	EMEX & Gain Modes	EmexManu_GainManu	
XMOD	EMEX Voltage Regulation Mode	MANU	
XVOL	EMEX Voltage	0	V
DSST-B: Dipole Shear Imager – B			
AGC1	Automatic Gain Control 1	ON	
AGC2	Automatic Gain Control 2	ON	
AGC3	Automatic Gain Control 3	ON	
AGC4	Automatic Gain Control 4	ON	
AGC5	Automatic Gain Control 5	ON	
AGCX	Automatic Gain Control X	ON	
BARS_MTR1	Length for Monopole Transmitter to Receiver 1	2.7432	M
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
BILI	Bond Index Level for Zone Isolation	0.8	
CASF	Label Casing Function – Monopole P&S	50	
CDTS	C–Delta–T Shale	100	US/F
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180	US/F
CSTR	Compressive Strength of Cement	0	KPAA
DDE1	Digitizing Delay 1	0	US
DDE2	Digitizing Delay 2	0	US
DDE3	Digitizing Delay 3	0	US
DDE4	Digitizing Delay 4	0	US
DDE5	Digitizing Delay 5	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DLHS	Label Hole Diameter Source for SOBS Channel	AUTO	
DSHL	Label Slowness Lower Limit – Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	775	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSI3	Digitizer Sample Interval 3	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSI5	Digitizer Sample Interval 5	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta–T Source for DTCO Channel	PS_COMP	
DTF	Delta–T Fluid	189	US/F
DTM	Delta–T Matrix	56	US/F
DTSS	Shear Delta–T Source for DTSM Channel	UPPER_DIPOLE	

DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWC3	Digitizer Word Count 3	512	
DWC4	Digitizer Word Count 4	512	
DWC5	Digitizer Word Count 5	512	
DWCX	Digitizer Word Count X	480	
FCF	CBL Fluid Compensation Factor	1	
FDE1	Firing Delay 1	0	
FDE2	Firing Delay 2	0	
FDE3	Firing Delay 3	0	
FDE4	Firing Delay 4	0	
FDE5	Firing Delay 5	0	
FDEX	Firing Delay X	0	
FGM5	First Motion Gate Moveout 5	40	US/F
FGMX	First Motion Gate Moveout X	40	US/F
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
FMG5	First Motion Minimum Gate 5	500	US
FMGX	First Motion Minimum Gate X	500	US
FMLL	Slowness Lower Limit – FMD	40	US/F
FMRC	Restart Control – FMD	CONTINUE	
FMT5	First Motion Threshold 5	UP	
FMTX	First Motion Threshold X	NONE	
FMUL	Slowness Upper Limit – FMD	180	US/F
FNC5	First Motion Noise Counter Input 5	ALO	
FNCX	First Motion Noise Counter Input X	ALO	
FPM	Processing Mode – FMD	NONE	
FTD5	First Motion Threshold Direction 5	UP	
FTDX	First Motion Threshold Direction X	UP	
GAI1	Manual Gain 1	10	
GAI2	Manual Gain 2	10	
GAI3	Manual Gain 3	6	
GAI4	Manual Gain 4	16	
GAI5	Manual Gain 5	16	
GAIX	Manual Gain X	10	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GDT1	Gain Delta–T 1	800	US/F
GDT2	Gain Delta–T 2	800	US/F
GDT3	Gain Delta–T 3	800	US/F
GDT4	Gain Delta–T 4	160	US/F
GDT5	Gain Delta–T 5	160	US/F
GDTX	Gain Delta–T X	800	US/F
GGRD	Geothermal Gradient	0.01	DF/F
GIN1	Gain Interval 1	15360	US
GIN2	Gain Interval 2	15360	US
GIN3	Gain Interval 3	15360	US
GIN4	Gain Interval 4	2560	US
GIN5	Gain Interval 5	1600	US
GINX	Gain Interval X	15360	US
GOBO	Good Bond	2	MV
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HPF1	High Pass Filter 1	F80	
HPF2	High Pass Filter 2	F80	
HPF3	High Pass Filter 3	F80	
HPF4	High Pass Filter 4	F8K	
HPF5	High Pass Filter 5	F8K	
HPFX	High Pass Filter X	F80	
ITTS	Integrated Transit Time Source	DTCO	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
LPF1	Low Pass Filter 1	F5K	
LPF2	Low Pass Filter 2	F5K	
LPF3	Low Pass Filter 3	F5K	
LPF4	Low Pass Filter 4	F30K	
LPF5	Low Pass Filter 5	F30K	
LPFX	Low Pass Filter X	F5K	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MAI5	Slowness Averaging Interval – FMD	42	IN
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCI	Minimum Cemented Interval for Isolation	4.51523	M
MCS	Mean Casing Slowness	57	US/F
MDS5	Multishot Delta–T Scatter – FMD	20	US
MSA	Minimum Sonic Amplitude	18.3087	MV
MTXG	Monopole Transmitter Geometry	186	IN
MUX1	Sum Difference Multiplexor Input 1	RR	
MUX2	Sum Difference Multiplexor Input 2	RR	
MUX3	Sum Difference Multiplexor Input 3	RR	
MUX4	Sum Difference Multiplexor Input 4	RR	
MUX5	Sum Difference Multiplexor Input 5	RR	
MUXX	Sum Difference Multiplexor Input X	RR	
NTI5	Number Threshold Items 5	0	
NTIX	Number Threshold Items X	0	
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWI6	Number Waveform Items 6	8	

NWI3	Number Waveform Items 3	8	
NWI4	Number Waveform Items 4	8	
NWI5	Number Waveform Items 5	0	
NWIX	Number Waveform Items X	0	
NWS1	Number Waveforms Stacked 1	1	
NWS2	Number Waveforms Stacked 2	1	
NWS3	Number Waveforms Stacked 3	1	
NWS4	Number Waveforms Stacked 4	1	
NWS5	Number Waveforms Stacked 5	1	
NWSX	Number Waveforms Stacked X	1	
RATE	Firing Rate	R3	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	EVEN	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAM3	DSST Sonic Acquisition Mode 3 – Low Frequency Monopole Mode for Stoneley	ODD	
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	EVEN	
SAM5	DSST Sonic Acquisition Mode 5 – High Frequency Monopole Mode for FMD	OFF	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS3	STC Sonic Array Status – Monopole Stoneley	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SAS5	Sonic Array Status – FMD	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO3	STC Search Band Offset – Monopole Stoneley	2000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW3	STC Search Bandwidth – Monopole Stoneley	6000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC3	STC Formation Character – Monopole Stoneley	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B1–3K	
SFM2	STC Filter – Upper Dipole	B1–3K	
SFM3	STC Filter – Monopole Stoneley	B.5–1.5K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	75	US/F
SHT	Surface Hole Temperature	68	DEGF
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180	US/F
SLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL3	STC Slowness Lower Limit – Monopole Stoneley	180	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST3	STC Slowness Step – Monopole Stoneley	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW3	STC Source Waveform – Monopole Stoneley	WF_SAM3	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL1	STC Slowness Upper Limit – Lower Dipole	775	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	775	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD3	STC Slowness Width – Monopole Stoneley	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBDB	Tool String Bottom to DSST Bottom	292.7	IN
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF3	STC Time for Baseline Fill – Monopole Stoneley	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US

TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL3	STC Time Lower Limit – Monopole Stoneley	620	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST1	STC Time Step – Lower Dipole	200	US
TST2	STC Time Step – Upper Dipole	200	US
TST3	STC Time Step – Monopole Stoneley	200	US
TST4	STC Time Step – Monopole P&S	50	US
TTDB	Tool String Top to DSST Bottom	981.4	IN
TUL1	STC Time Upper Limit – Lower Dipole	15912.5	US
TUL2	STC Time Upper Limit – Upper Dipole	15525	US
TUL3	STC Time Upper Limit – Monopole Stoneley	12020	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWA1	Transmitter Waveform Amplitude 1	179	
TWA2	Transmitter Waveform Amplitude 2	179	
TWA3	Transmitter Waveform Amplitude 3	166	
TWA4	Transmitter Waveform Amplitude 4	150	
TWA5	Transmitter Waveform Amplitude 5	150	
TWAX	Transmitter Waveform Amplitude X	179	
TWD1	STC Time Width – Lower Dipole	2000	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD3	STC Time Width – Monopole Stoneley	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI3	STC Integration Time Window – Monopole Stoneley	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWR1	Transmitter Waveform Sample Rate 1	5	US
TWR2	Transmitter Waveform Sample Rate 2	5	US
TWR3	Transmitter Waveform Sample Rate 3	5	US
TWR4	Transmitter Waveform Sample Rate 4	5	US
TWR5	Transmitter Waveform Sample Rate 5	5	US
TWRX	Transmitter Waveform Sample Rate X	5	US
TWS1	Transmitter Waveform Select 1	0	
TWS2	Transmitter Waveform Select 2	0	
TWS3	Transmitter Waveform Select 3	4	
TWS4	Transmitter Waveform Select 4	6	
TWS5	Transmitter Waveform Select 5	6	
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFDTS1	SAM1 Waveform Delta for Spectrum	0	US/F
WFDTS2	SAM2 Waveform Delta for Spectrum	0	US/F
WFDTS3	SAM3 Waveform Delta for Spectrum	0	US/F
WFDTS4	SAM4 Waveform Delta for Spectrum	0	US/F
WFDTSX	SAMX Waveform Delta for Spectrum	0	US/F
WFLLS1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLLS2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLLS3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLLS4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLLSX	SAMX Waveform Lower Limit for Spectrum	0	US
WFM1	Waveform Mode 1	W1	
WFM2	Waveform Mode 2	W1	
WFM3	Waveform Mode 3	W1	
WFM4	Waveform Mode 4	W1	
WFM5	Waveform Mode 5	W1	
WFMX	Waveform Mode X	W1	
WFULS1	SAM1 Waveform Upper Limit for Spectrum	20000	US
WFULS2	SAM2 Waveform Upper Limit for Spectrum	20000	US
WFULS3	SAM3 Waveform Upper Limit for Spectrum	20000	US
WFULS4	SAM4 Waveform Upper Limit for Spectrum	5000	US
WFULSX	SAMX Waveform Upper Limit for Spectrum	20000	US
XMT1	Transmitter Select 1	DLO	
XMT2	Transmitter Select 2	DUP	
XMT3	Transmitter Select 3	MONO	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	NONE	
HNGBS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGBS Detector 1 Barite Constant	1	
BAR2	HNGBS Detector 2 Barite Constant	1	
BHK	HNGBS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
CSD1	Inner Casing Outer Diameter	9.625	IN
CSD2	Outer Casing Outer Diameter	13.375	IN
CSW1	Inner Casing Weight	43.5	LB/F
CSW2	Outer Casing Weight	54.5	LB/F
DBCC	HNGBS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGBS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGBS Detector 2 Allow/Disallow In Processing	ALLOW	

H2P	HNGS Detector 2 Allow/Disallow in Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00348216	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.999193	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00257	
DIP: Dip Computation			
	DIP Tool	FBST	
CSBL	CSB DIP Number of Levels	2L	
DPAD	Disabled Pad	NONE	
ELRA	Electrical Radius	0.5	IN
INT	Correlation Interval	1.2192	M
SANG	Correlation Search Angle	35	DEG
SBUT	DIP Set of Buttons	MSD	
SDFA	Side-by-Side Distance Factor	0.9	IN
SPAN	DIP Spanning	1/4	
STDA	Structural DIP Azimuth	0	DEG
STDI	Structural DIP Angle	0	DEG
STEP	Correlation Step	0.6096	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
FCD	Future Casing (Outer) Diameter	6.625	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	C1/C2	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	3545.10	M
TDL	Total Depth - Logger	3527.00	M
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	26300.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	43.50	LB/F
DFD	Drilling Fluid Density	9.40	LB/G
DO	Depth Offset for Playback	1.1	M
MST	Mud Sample Temperature	24.60	DEGC
PBVSADP	Use alternate depth channel for playback	YES	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1738	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	3527	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

**Schlumberger**

**Dipmeter  
(1:200)**

MAXIS Field Log

Company: Origin Energy Resources Ltd.

Well: Trefoil-1

### Input DLIS Files

DEFAULT	FMI_DSI_NGS_085PUP	FN:77	PRODUCER	02-Dec-2004 11:34	3530.3 M	2386.7 M
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### Output DLIS Files

OP System Version: 12C0-301

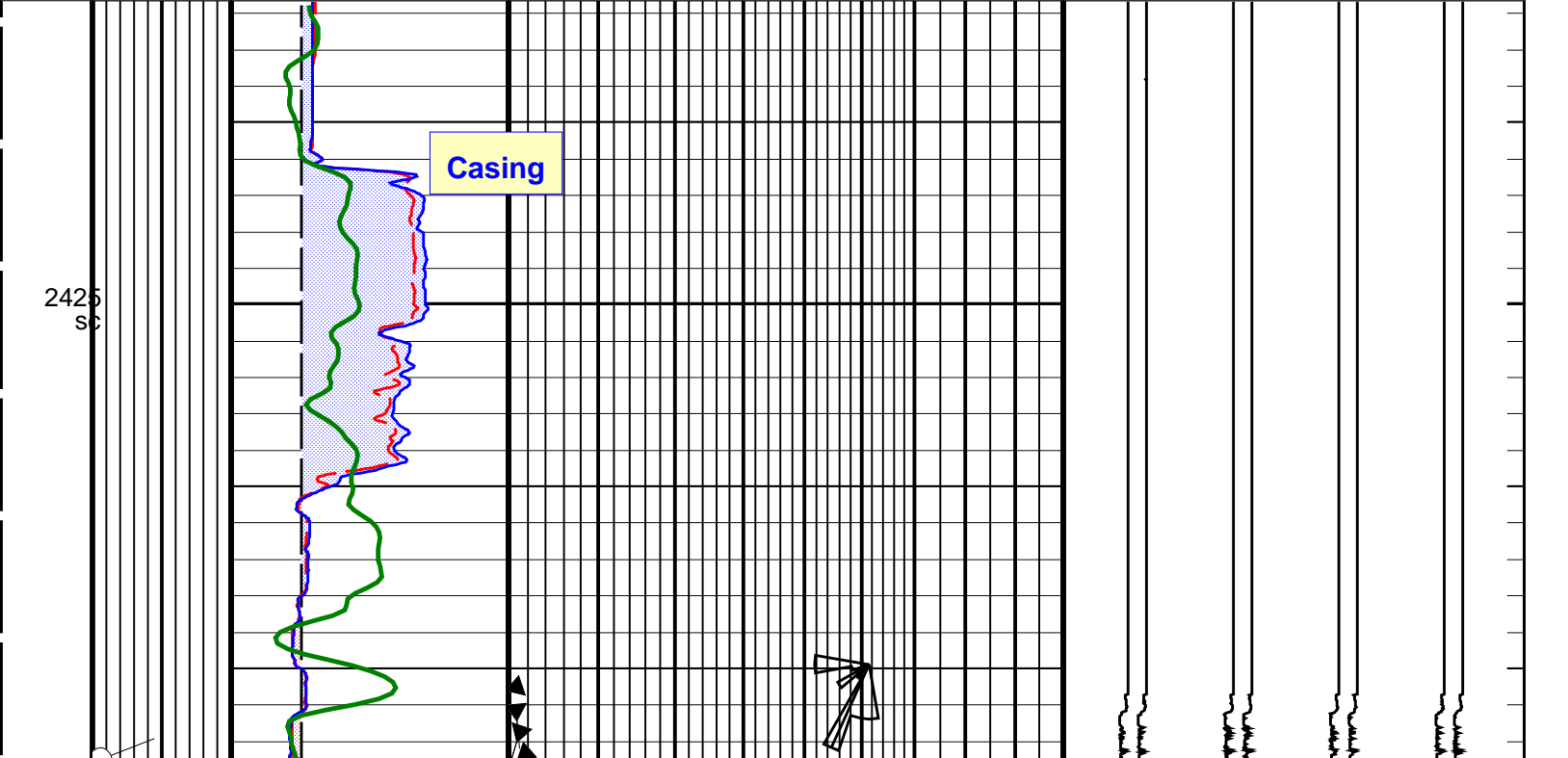
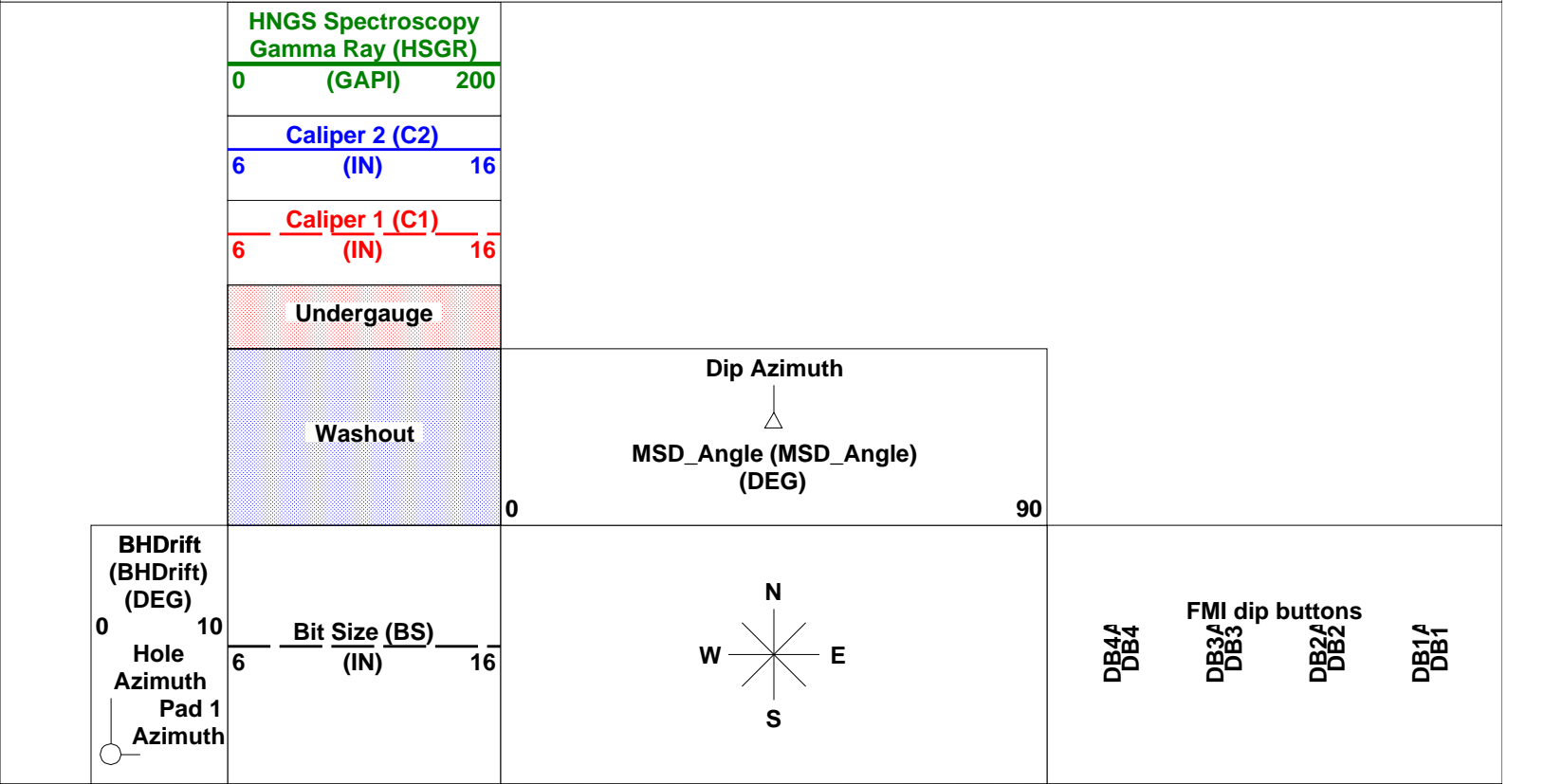
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FBST-B	12C0-301	DSST-B	12C0-301
HNGC-A	12C0-301	HNGS-BA	12C0-301
DTA-A	12C0-301	DTC-H	12C0-301
DTPC-A	12C0-301		

FMI Dip buttons values are Not corrected by Emex or Gain.

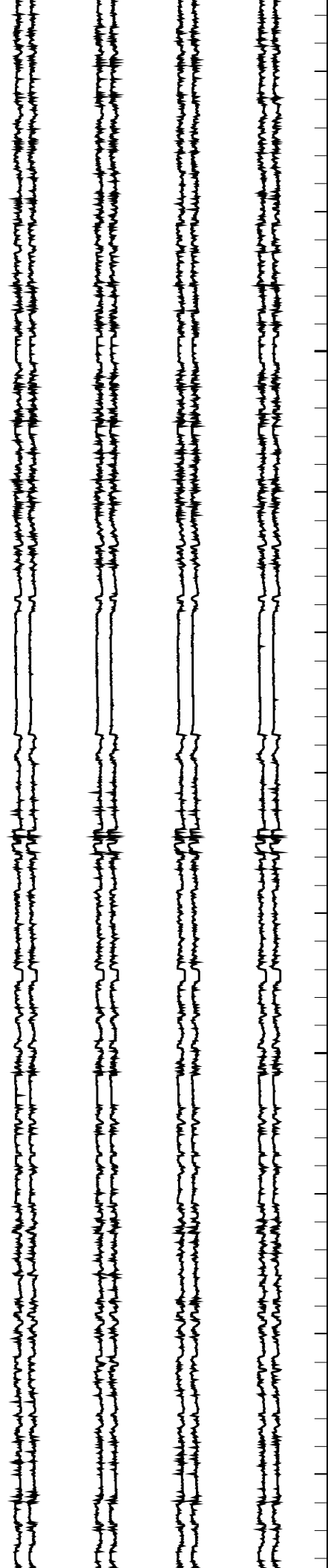
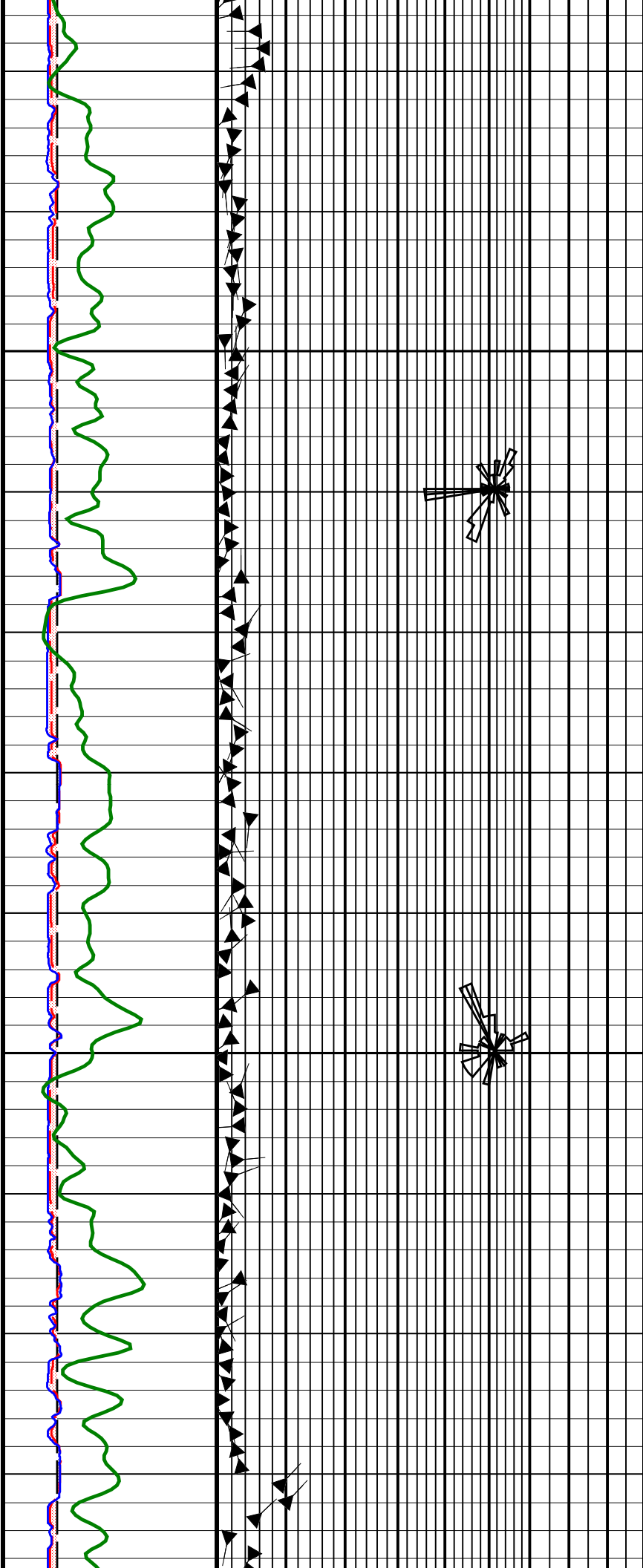
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Time Mark Every 60 S



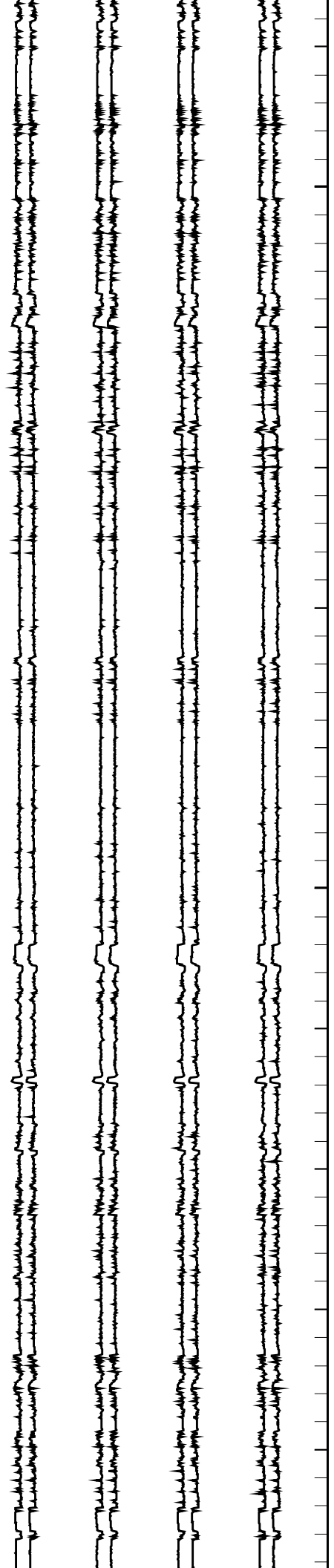
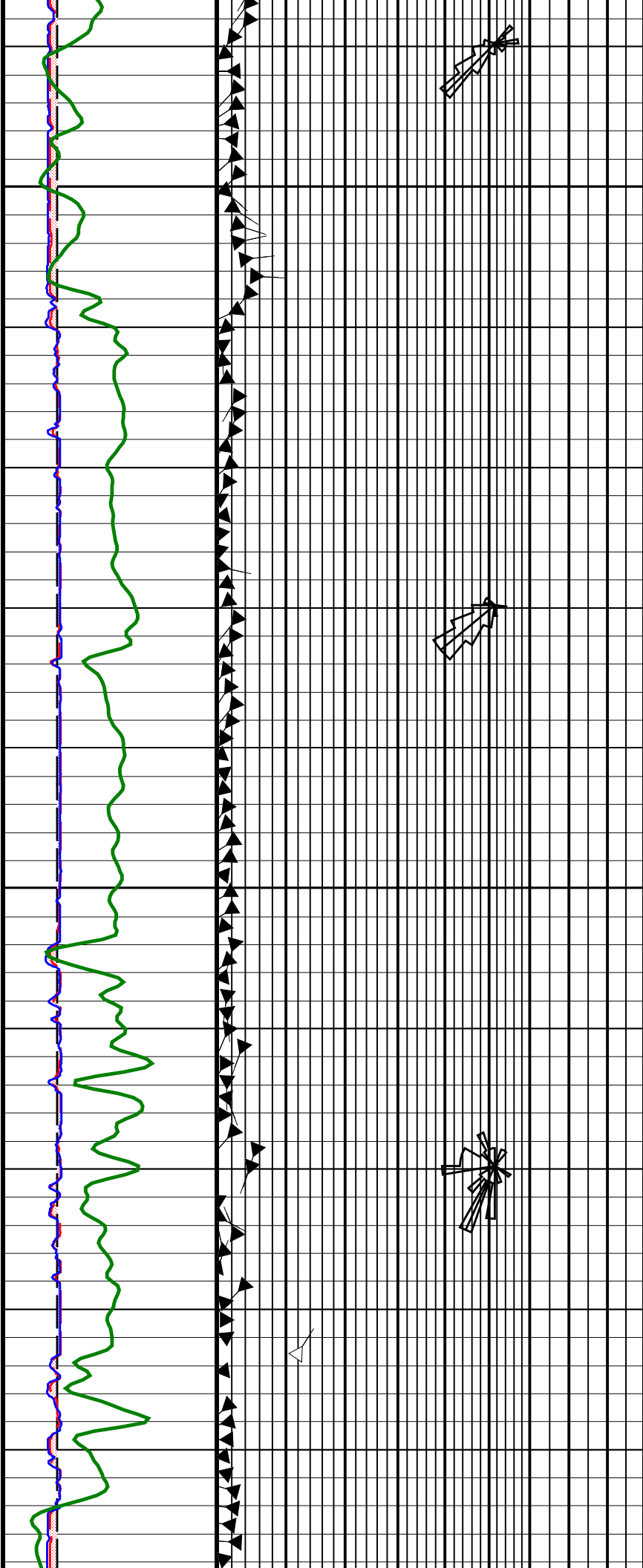
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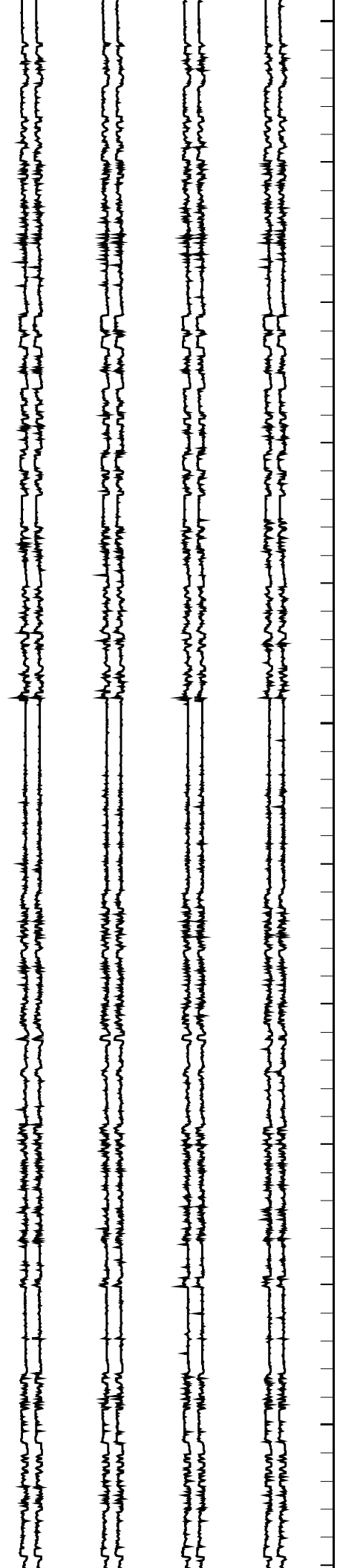
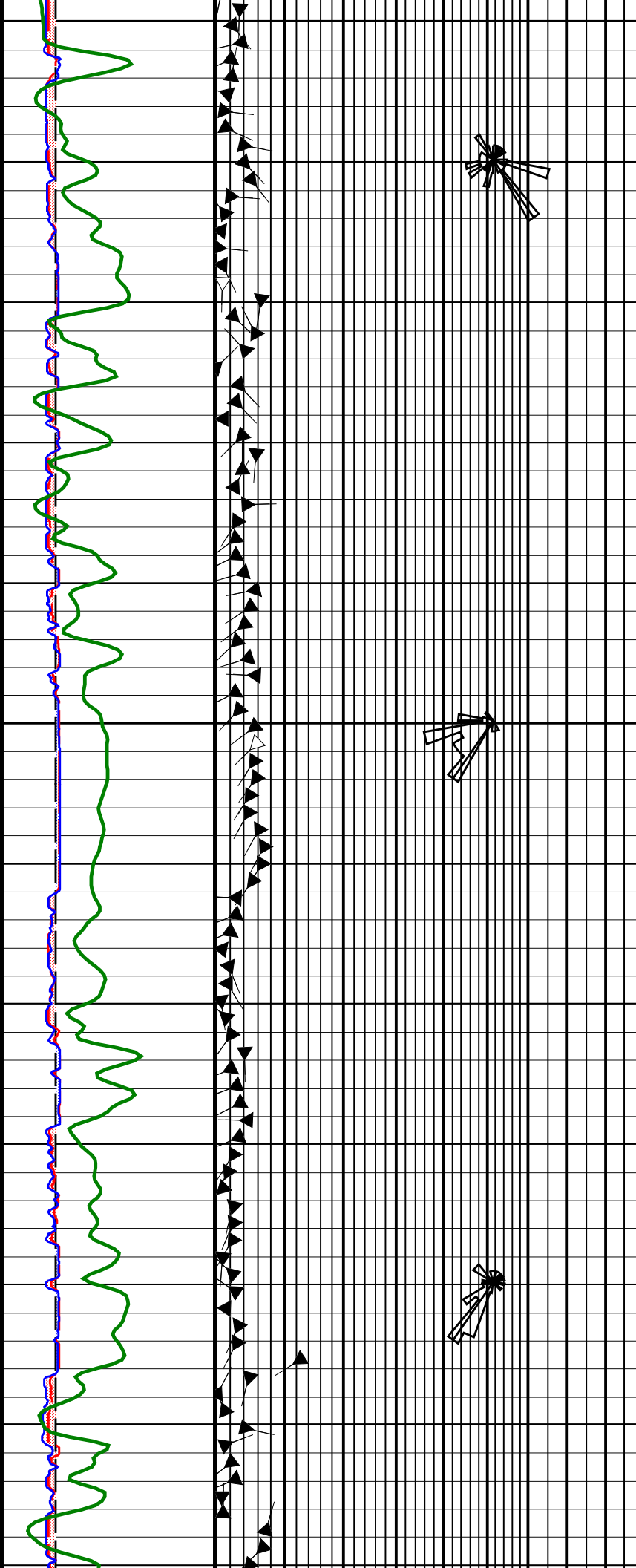
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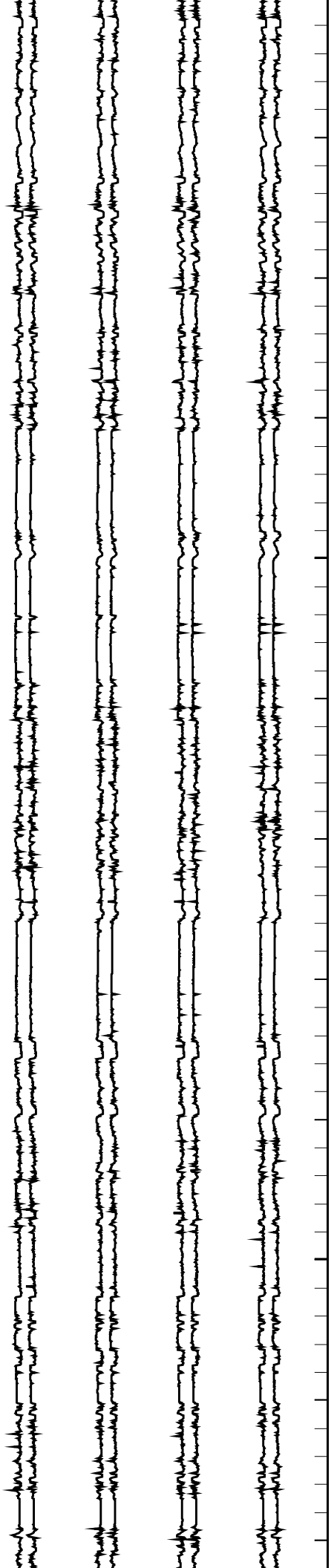
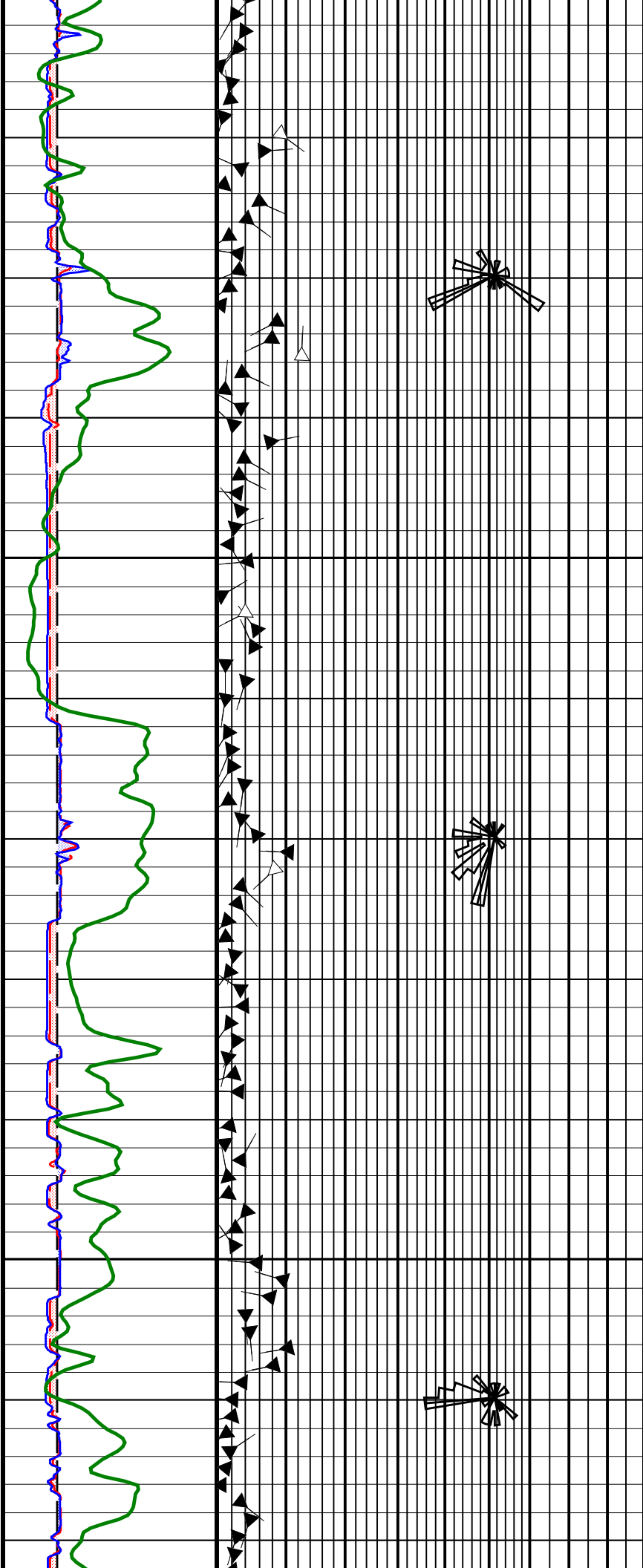
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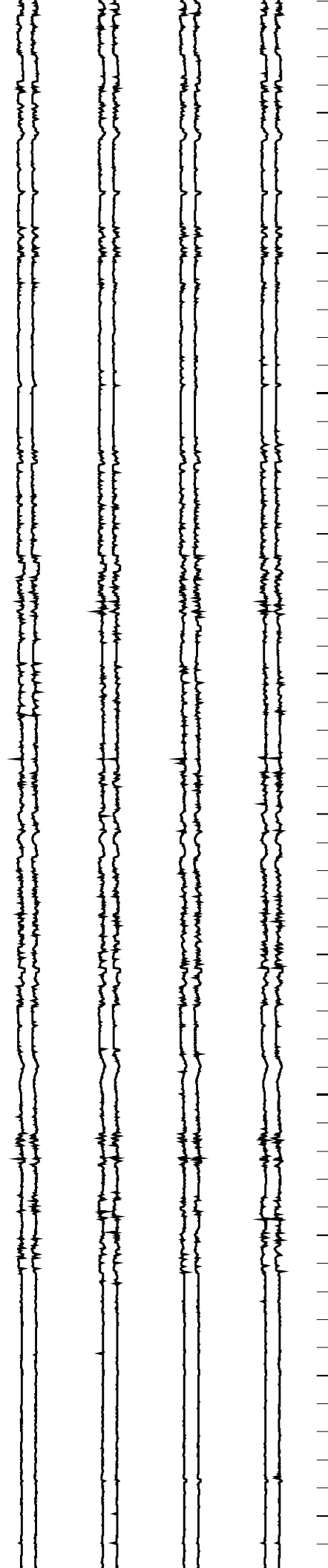
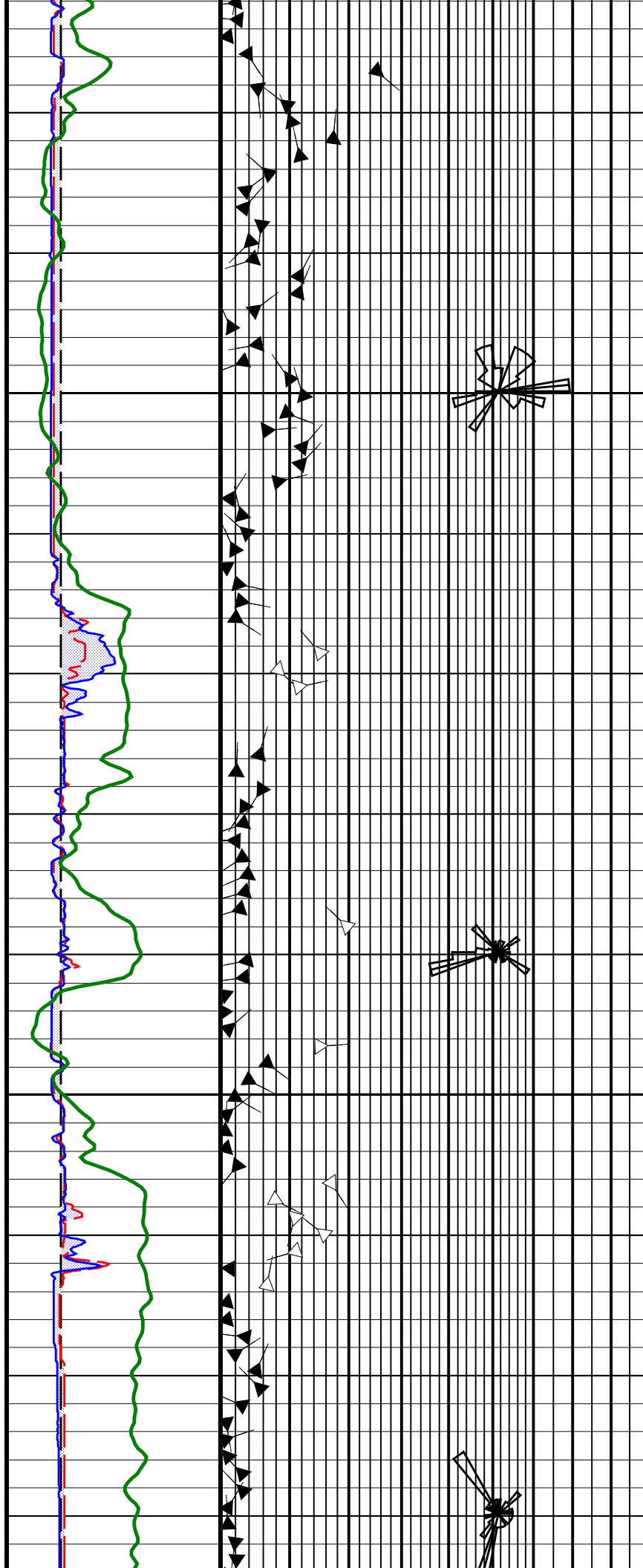
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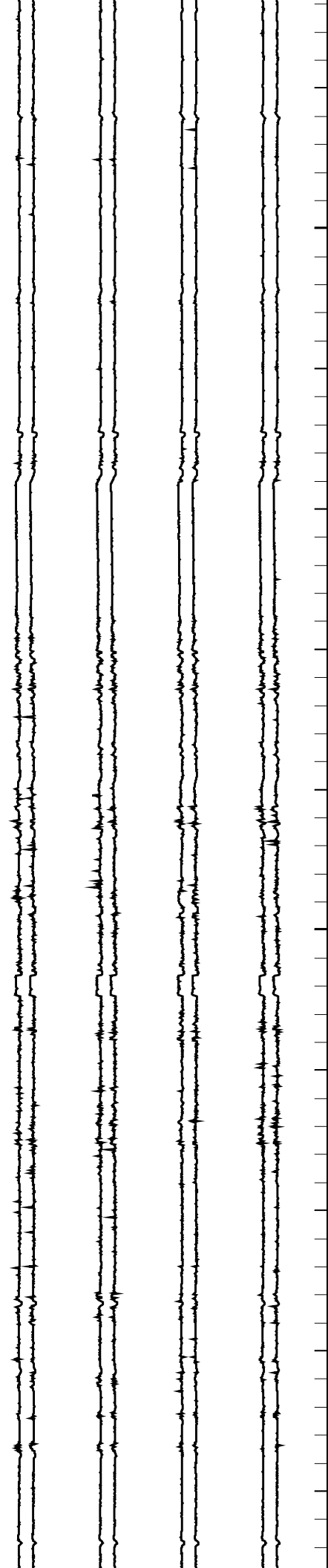
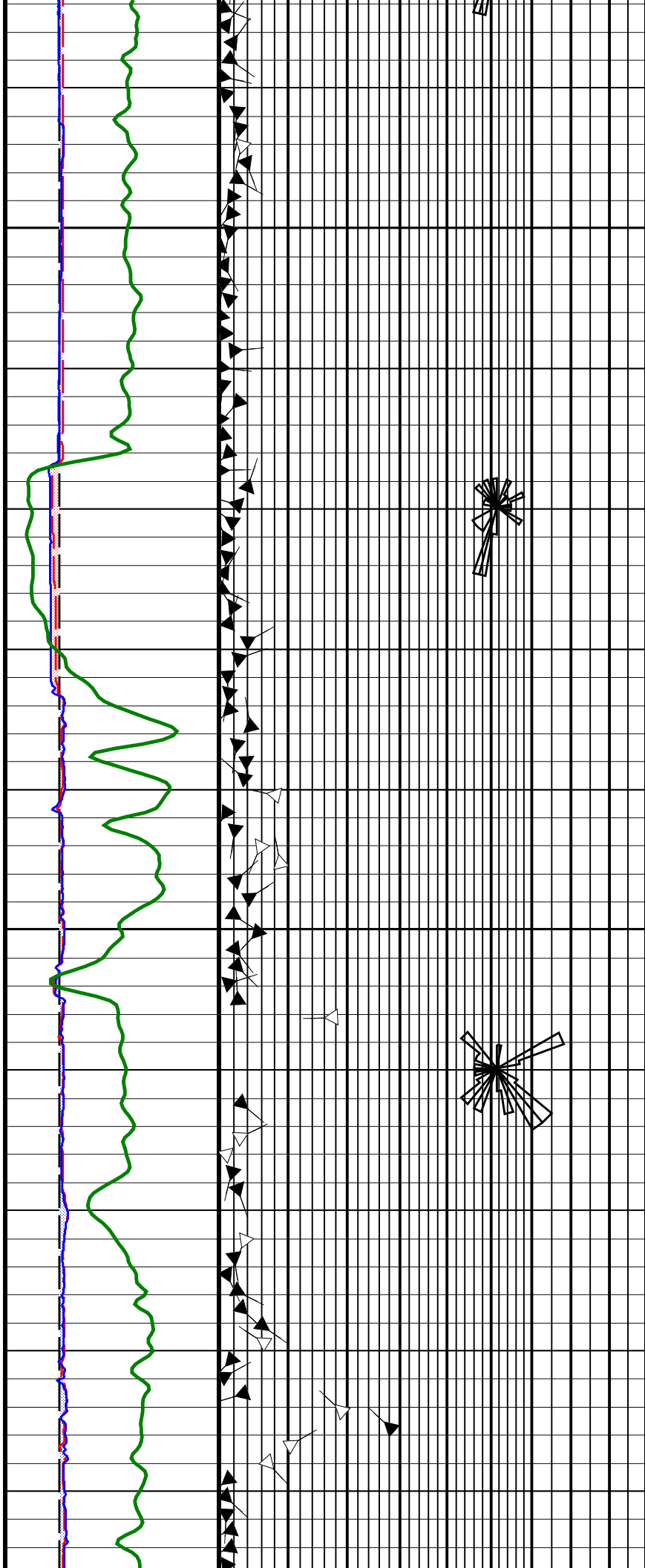
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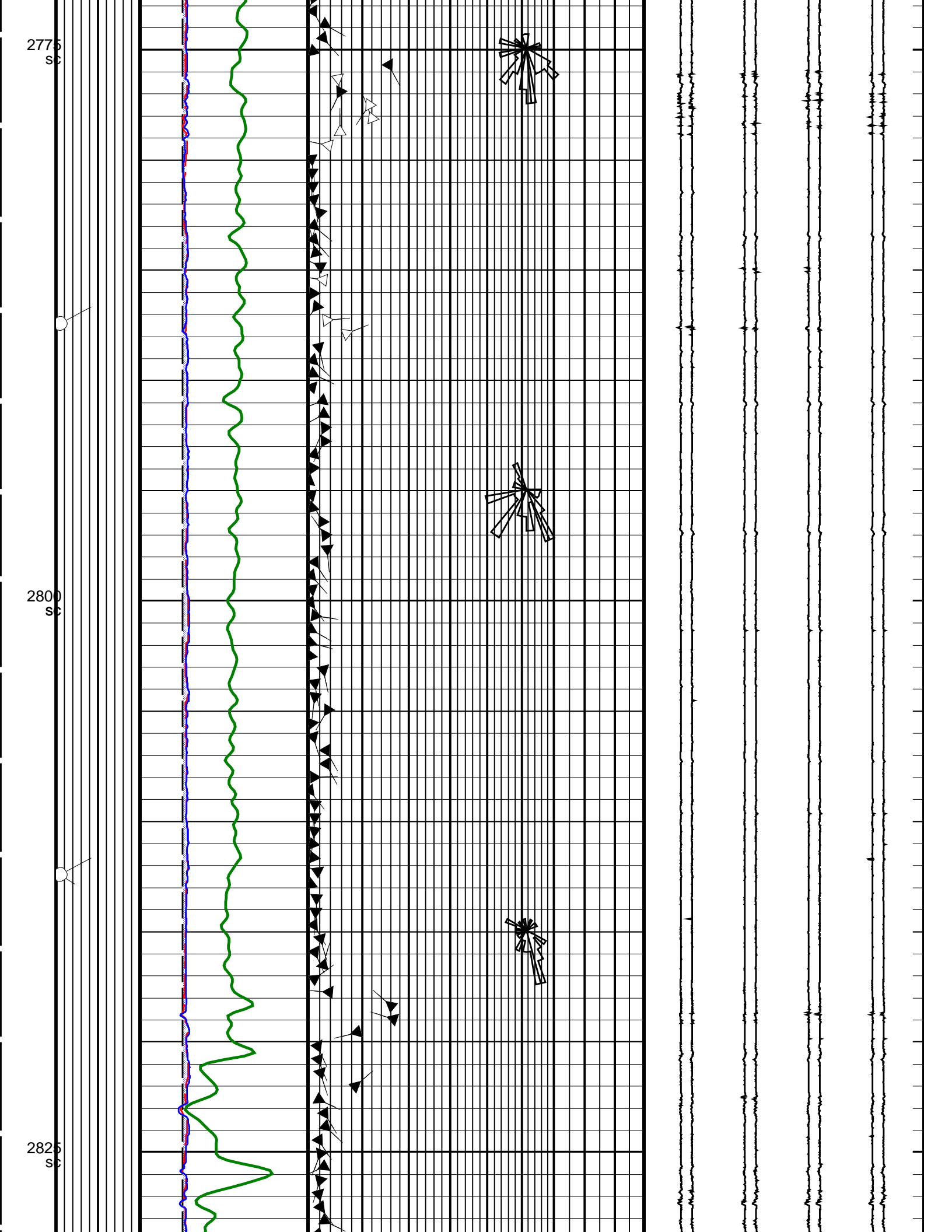
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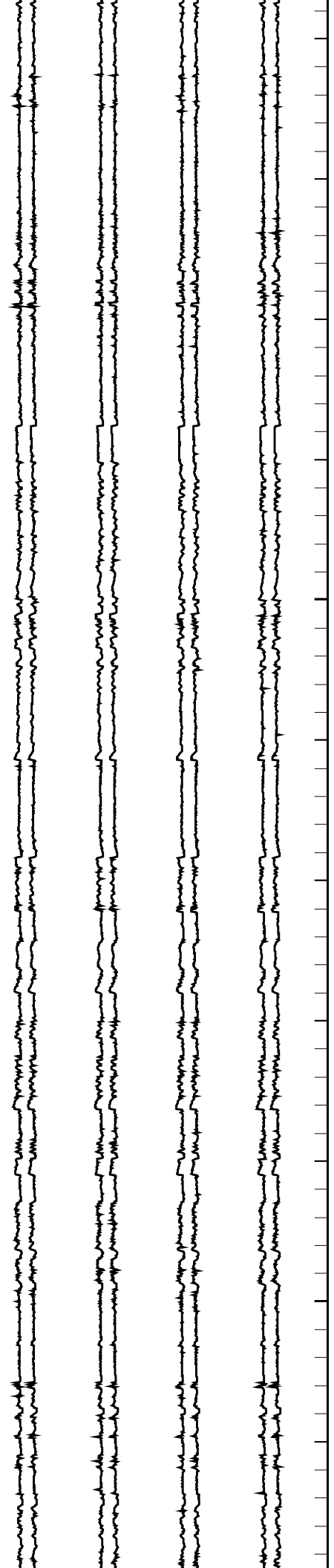
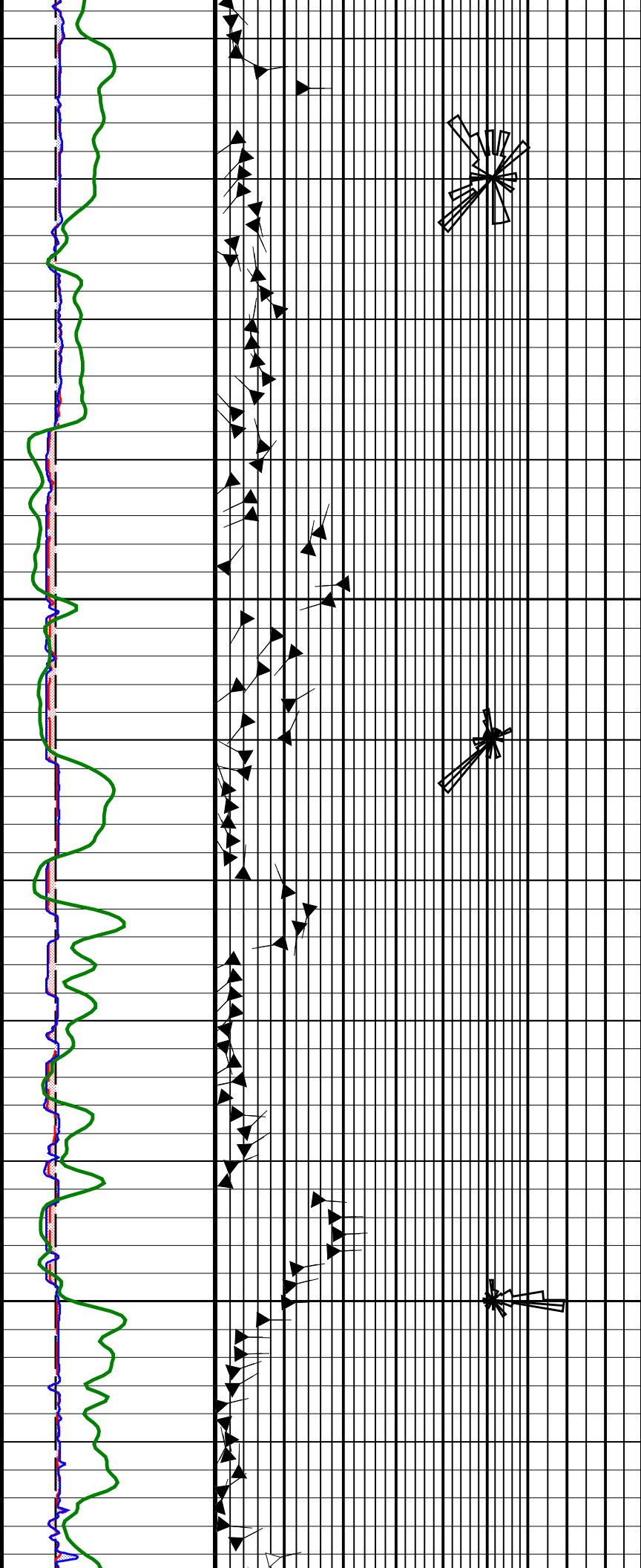
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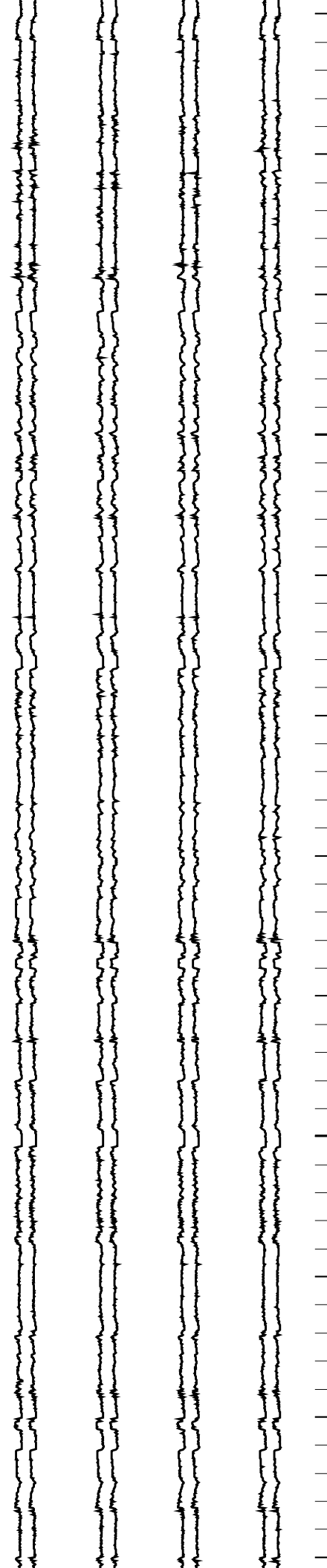
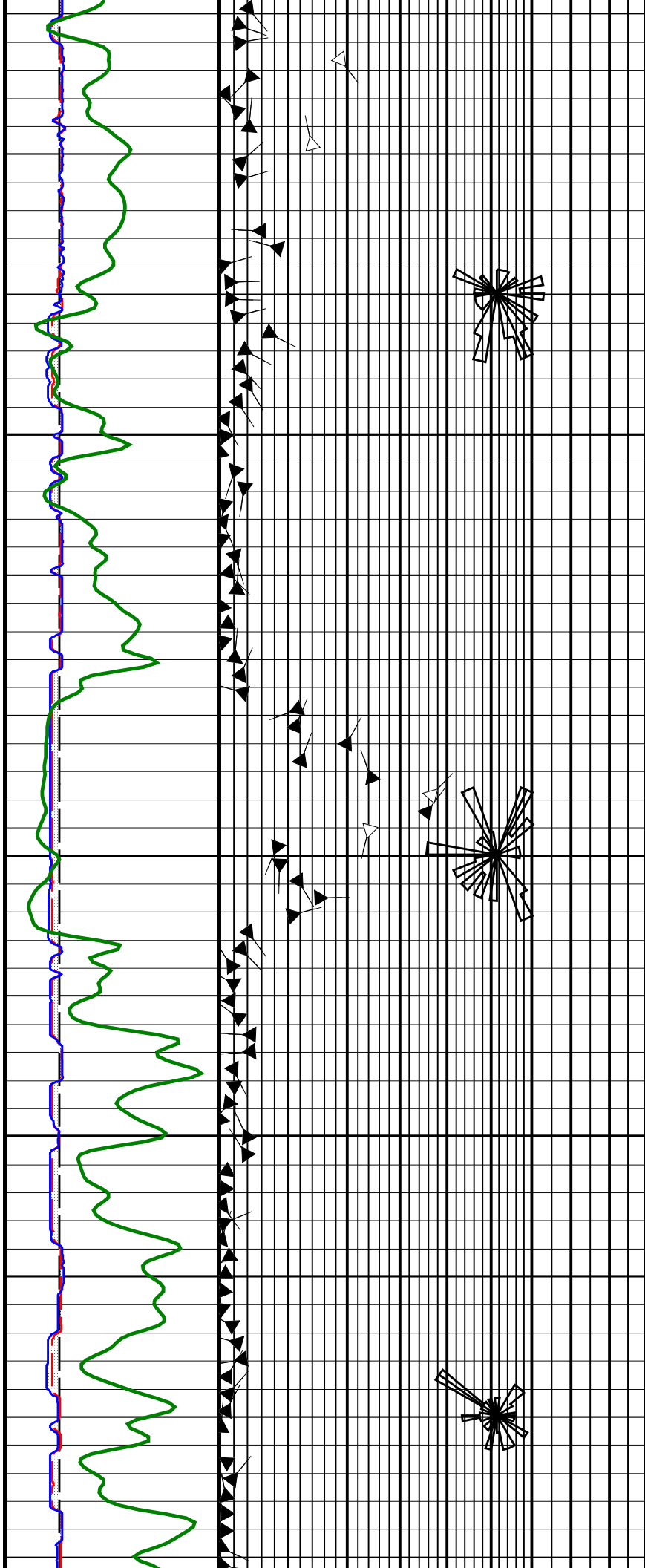
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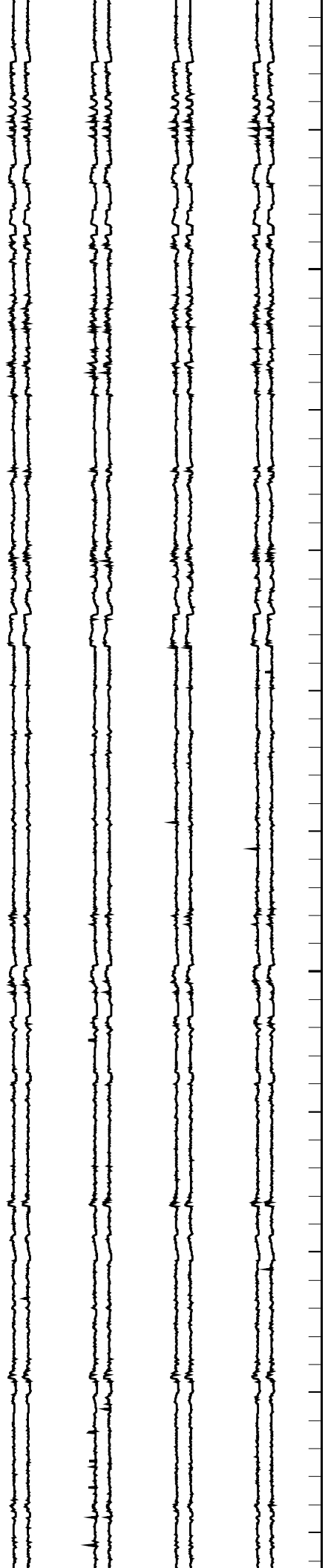
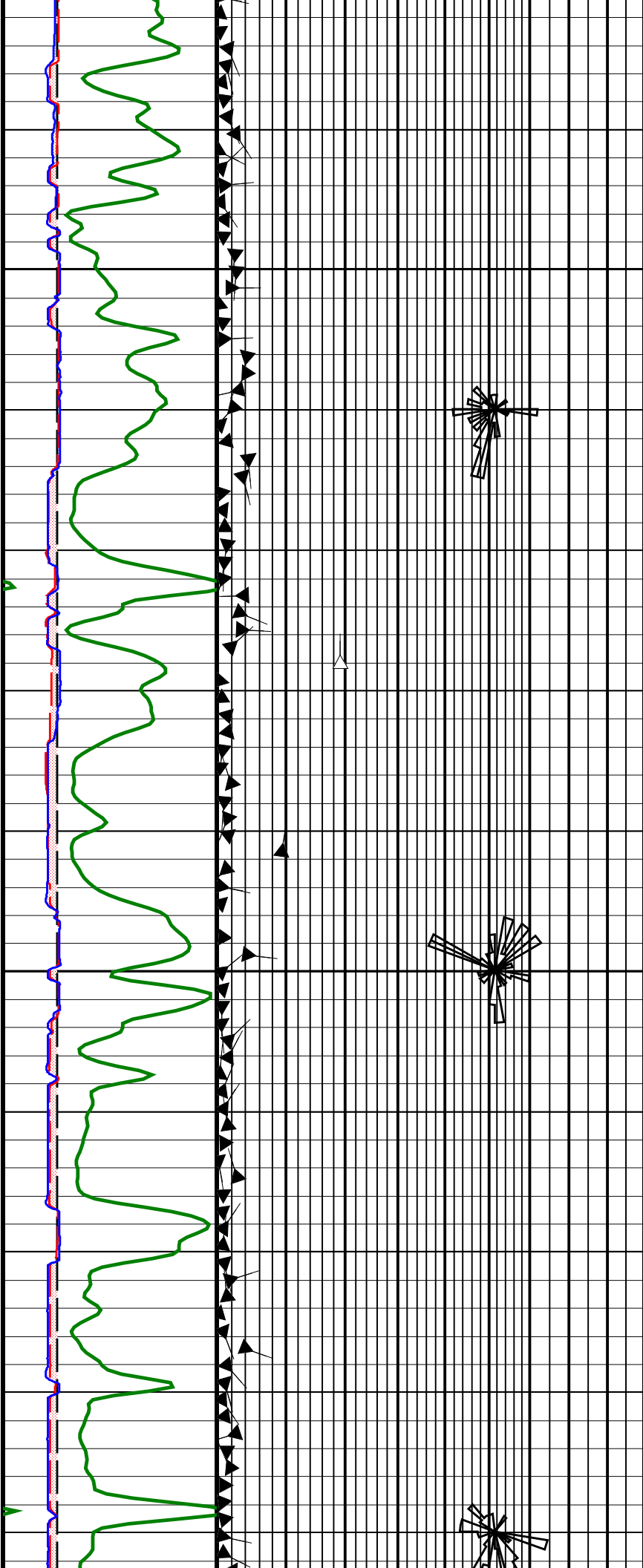
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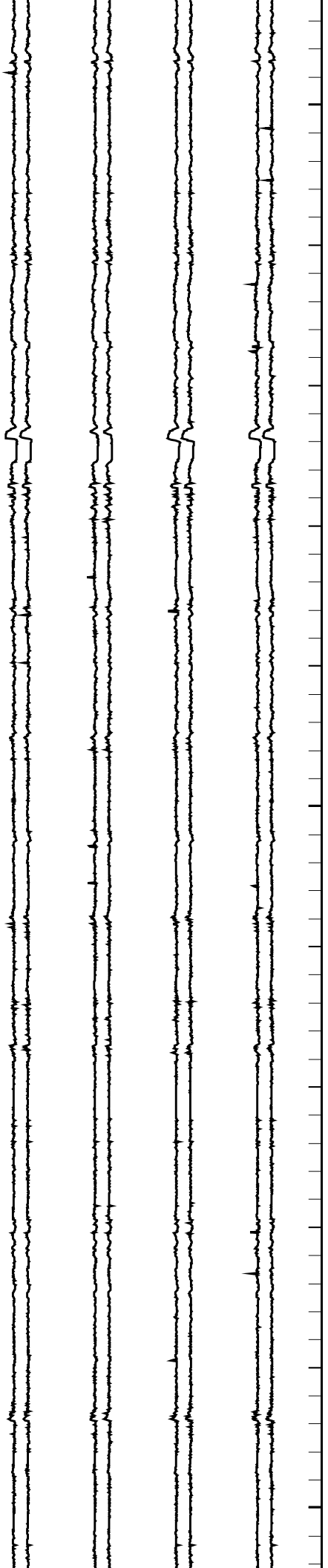
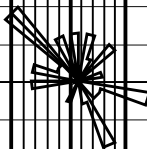
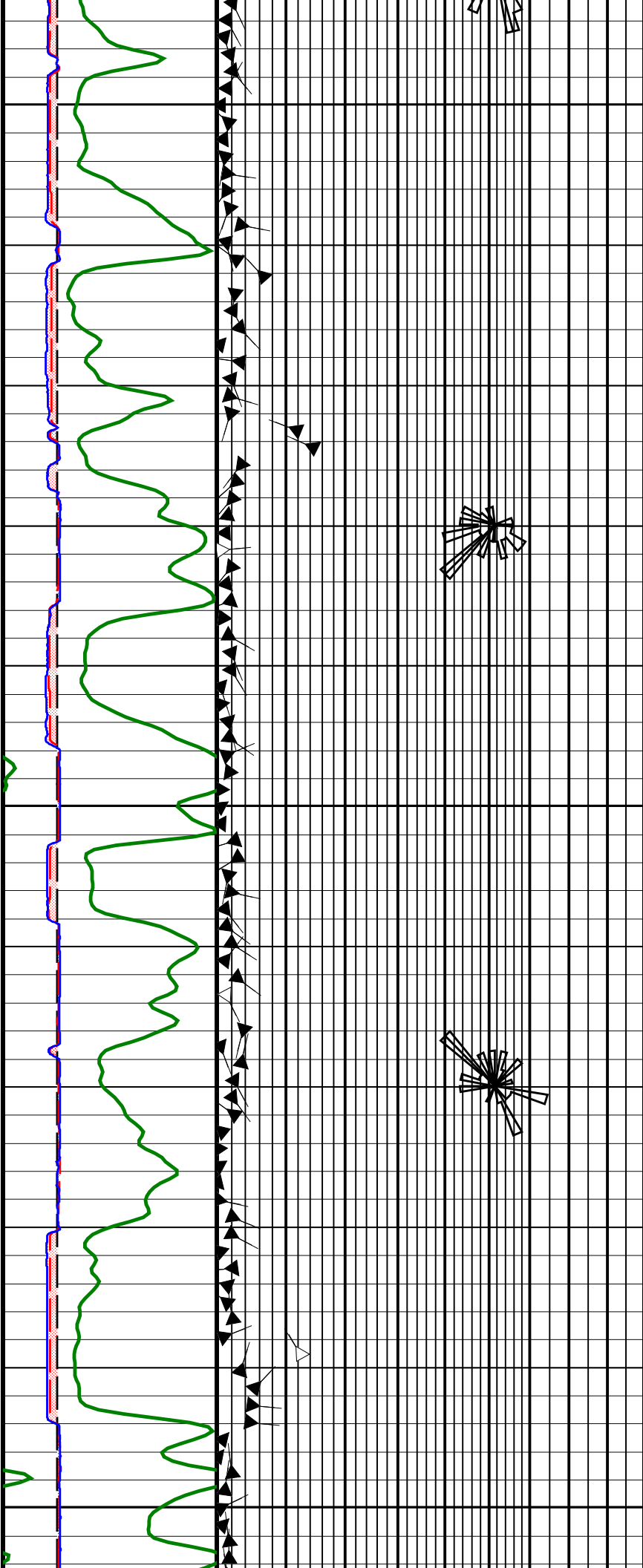
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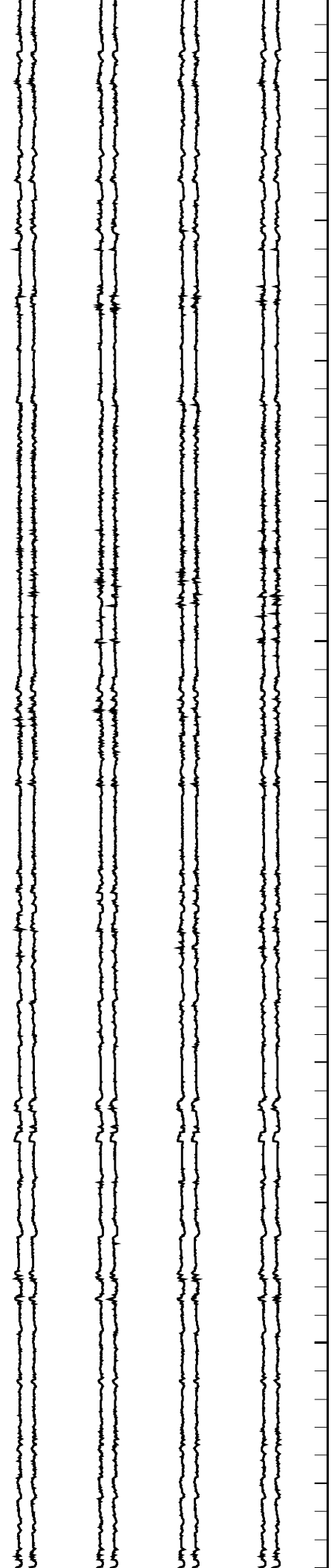
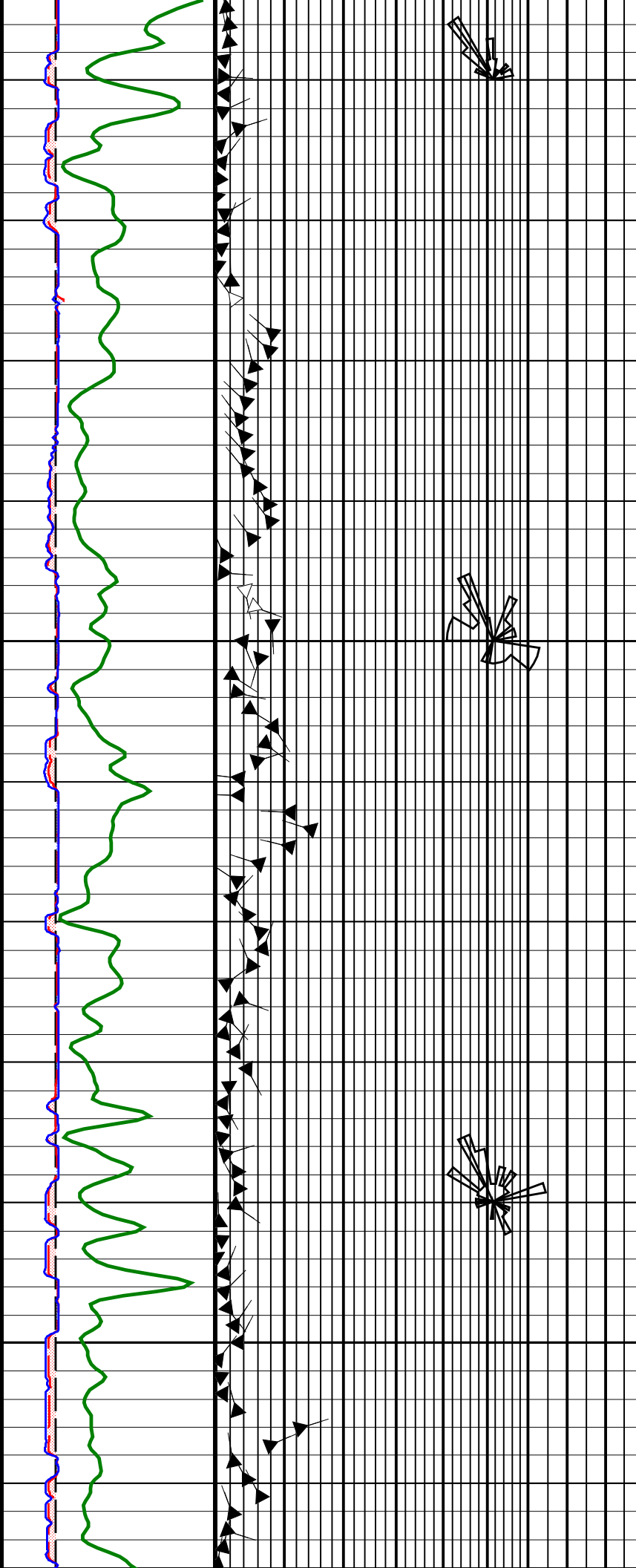
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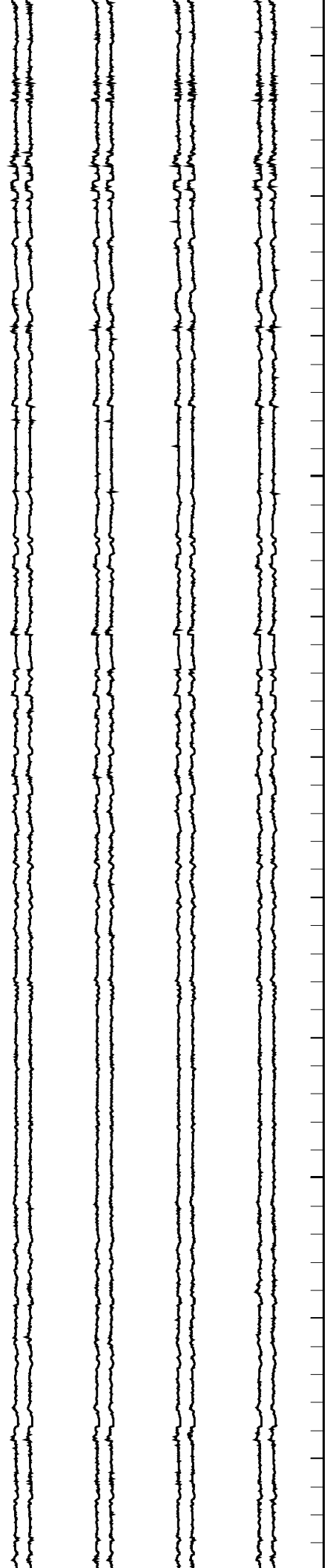
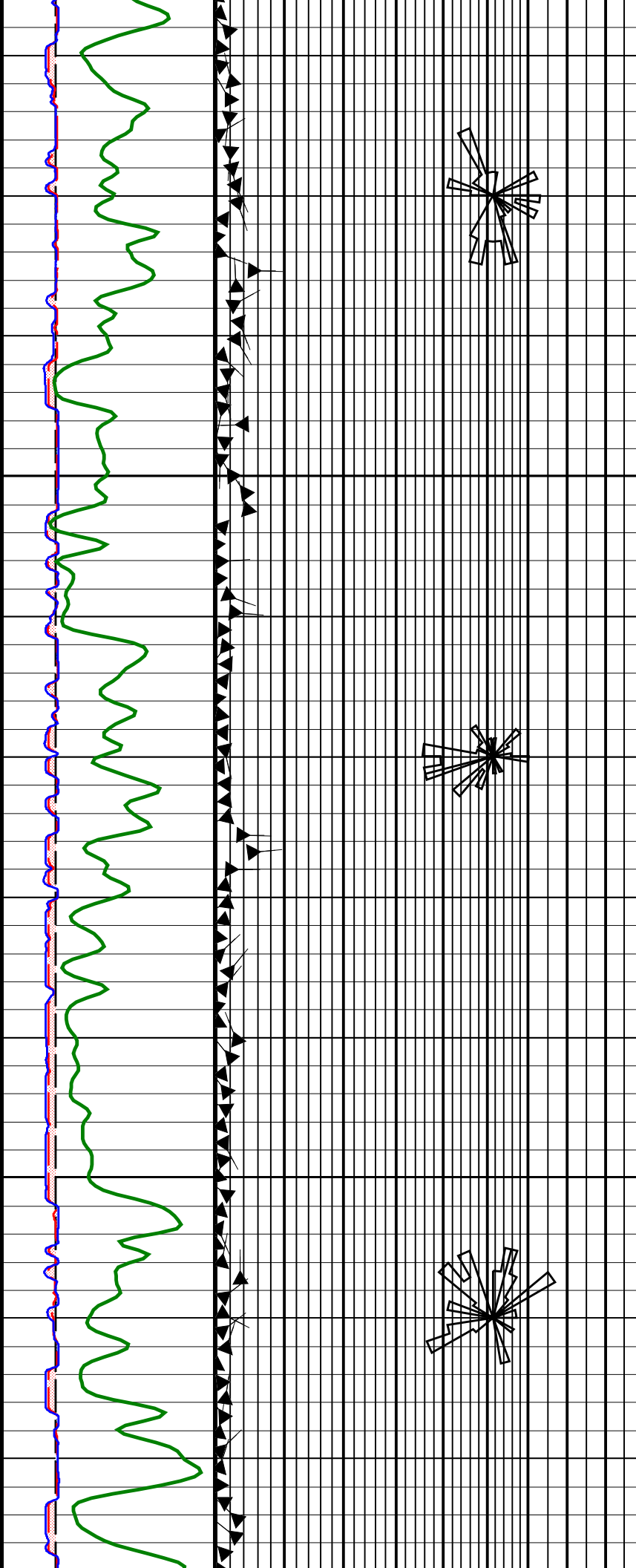
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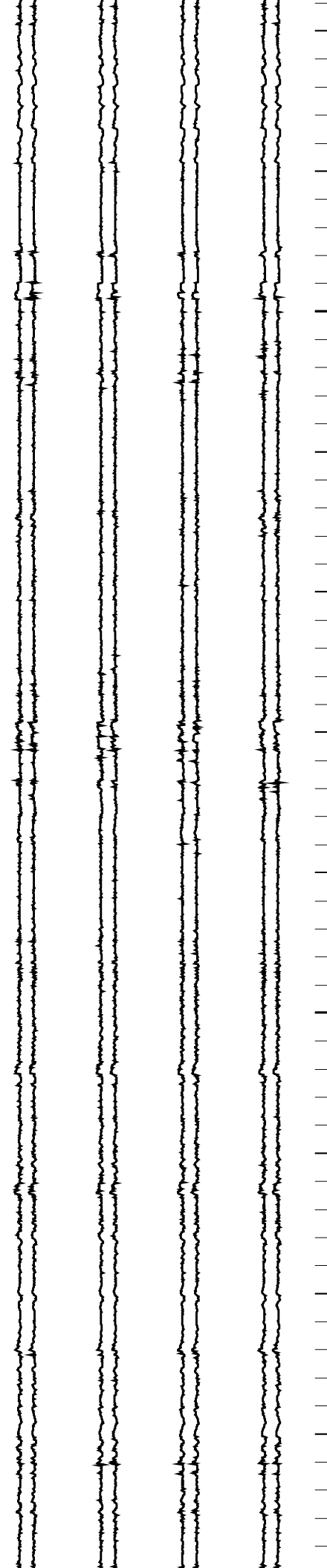
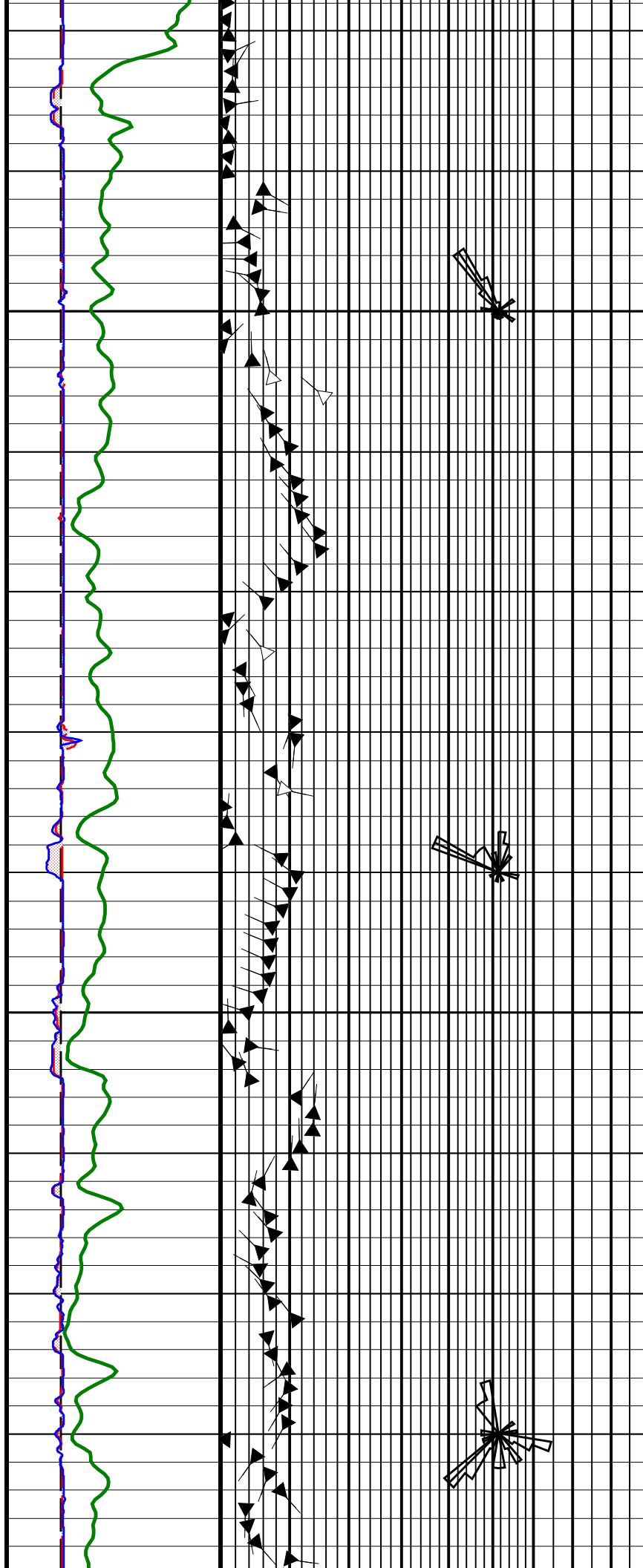
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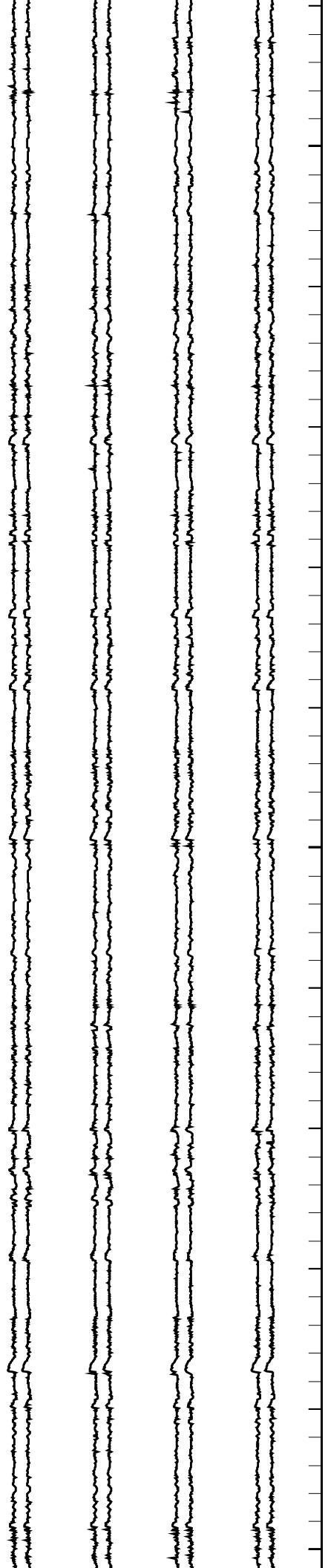
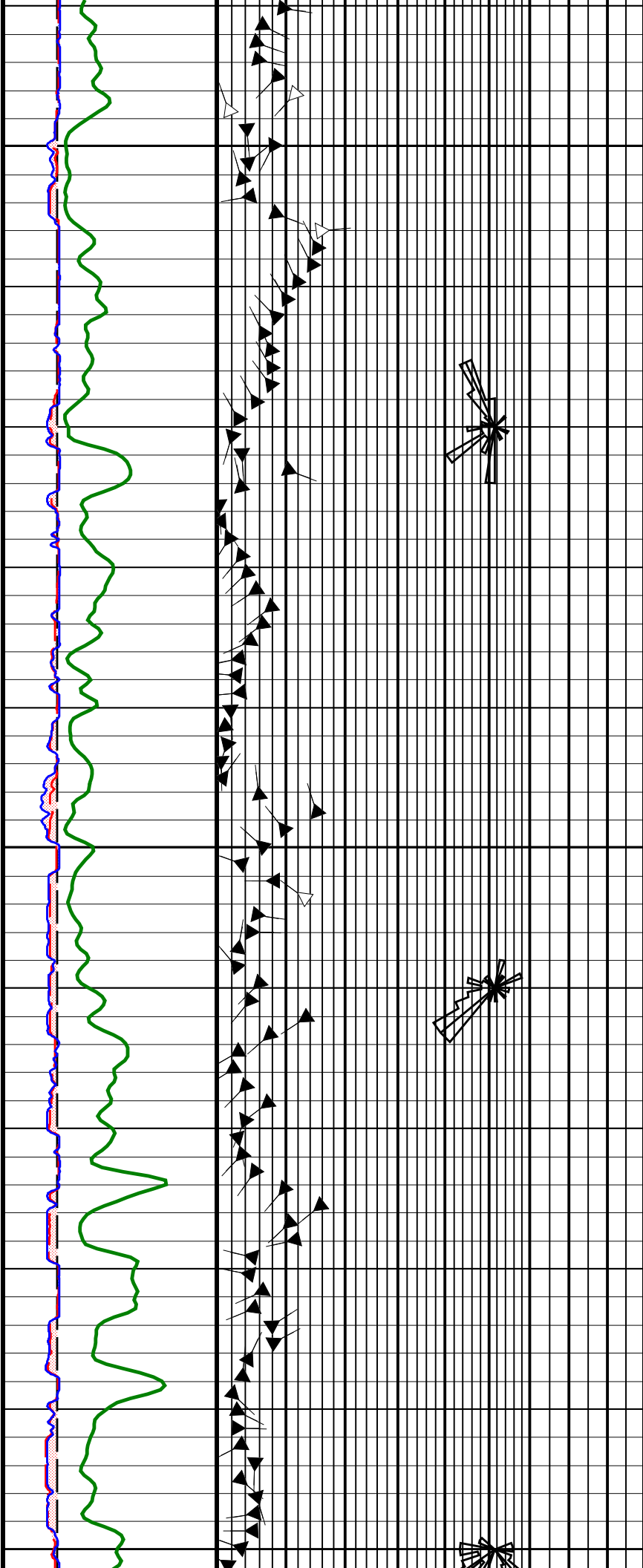
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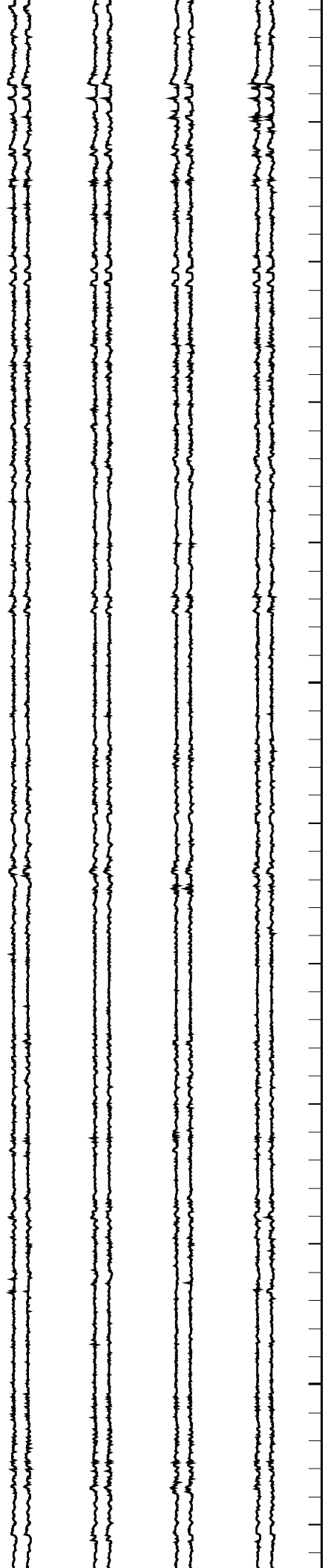
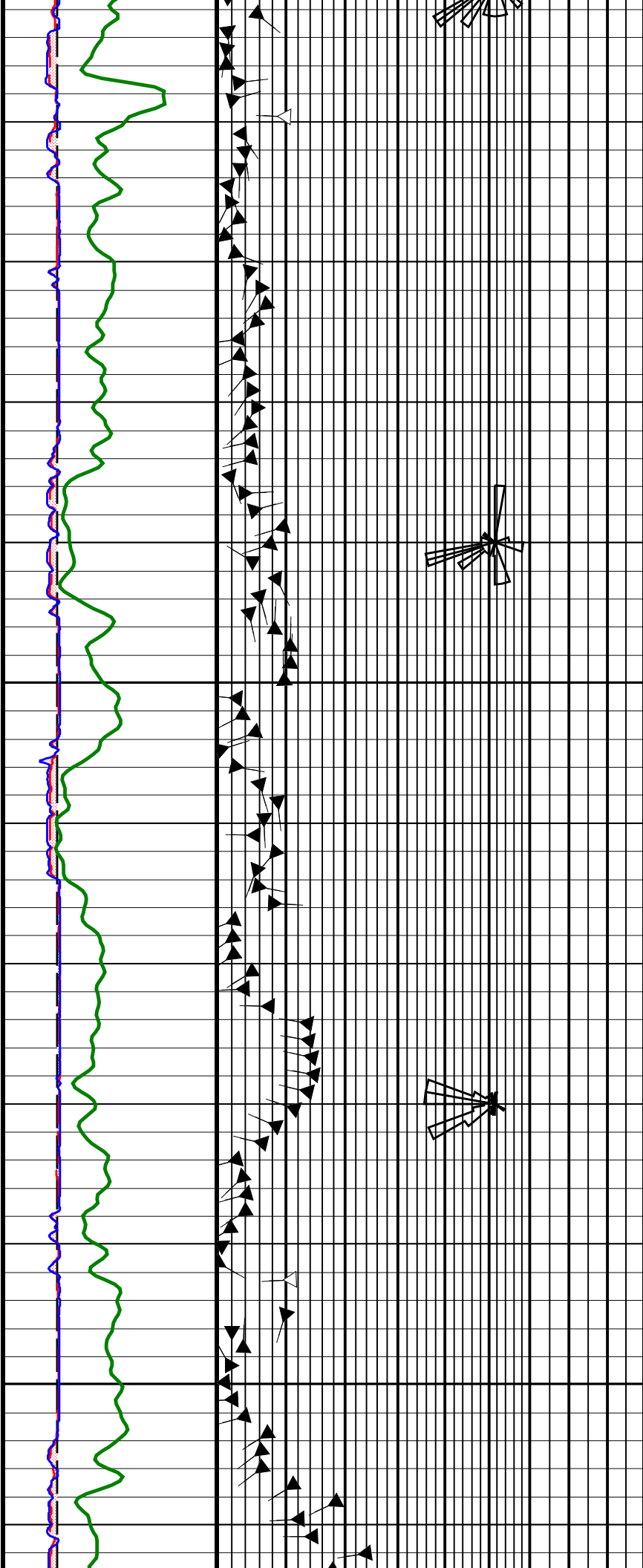
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sc

3275  
sc



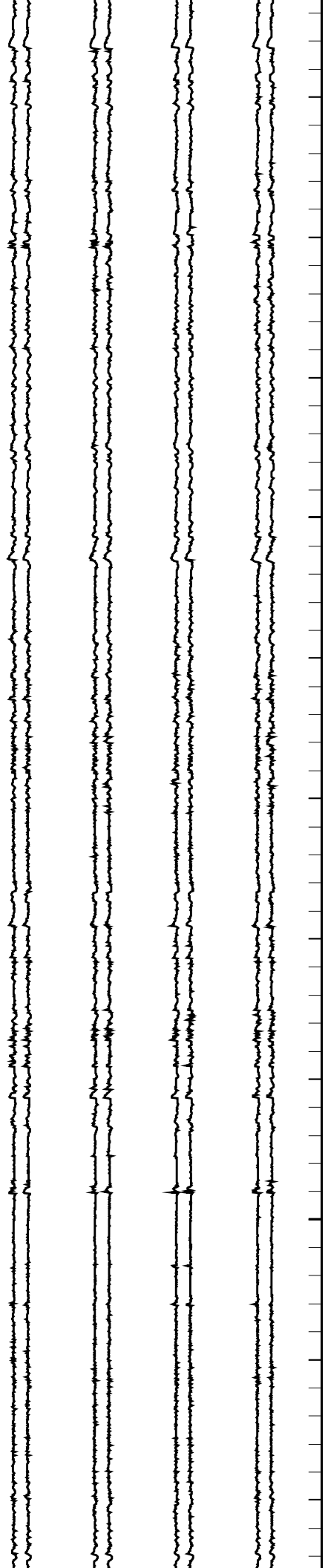
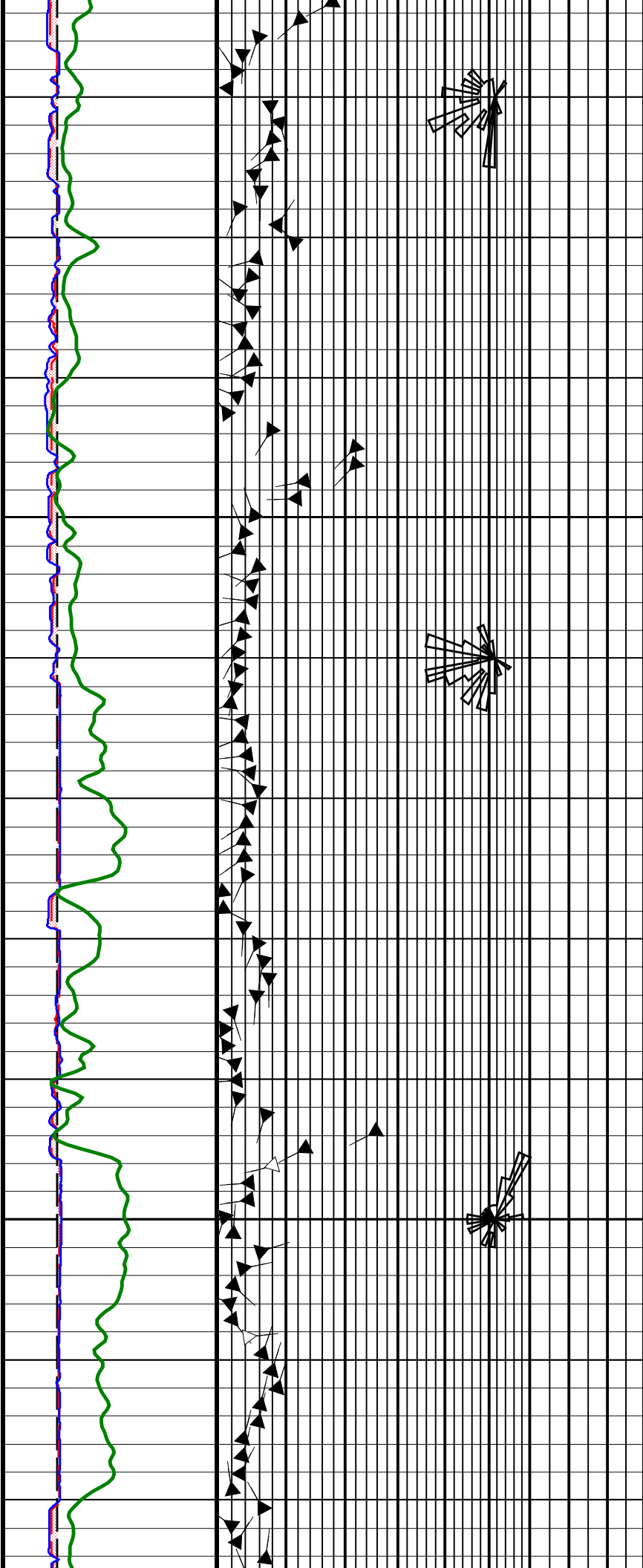
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sc

3325  
sc



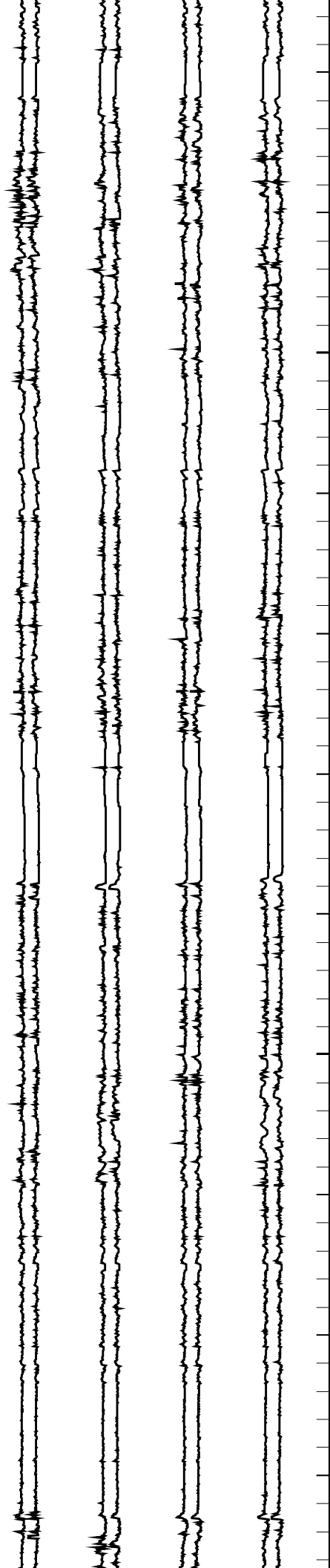
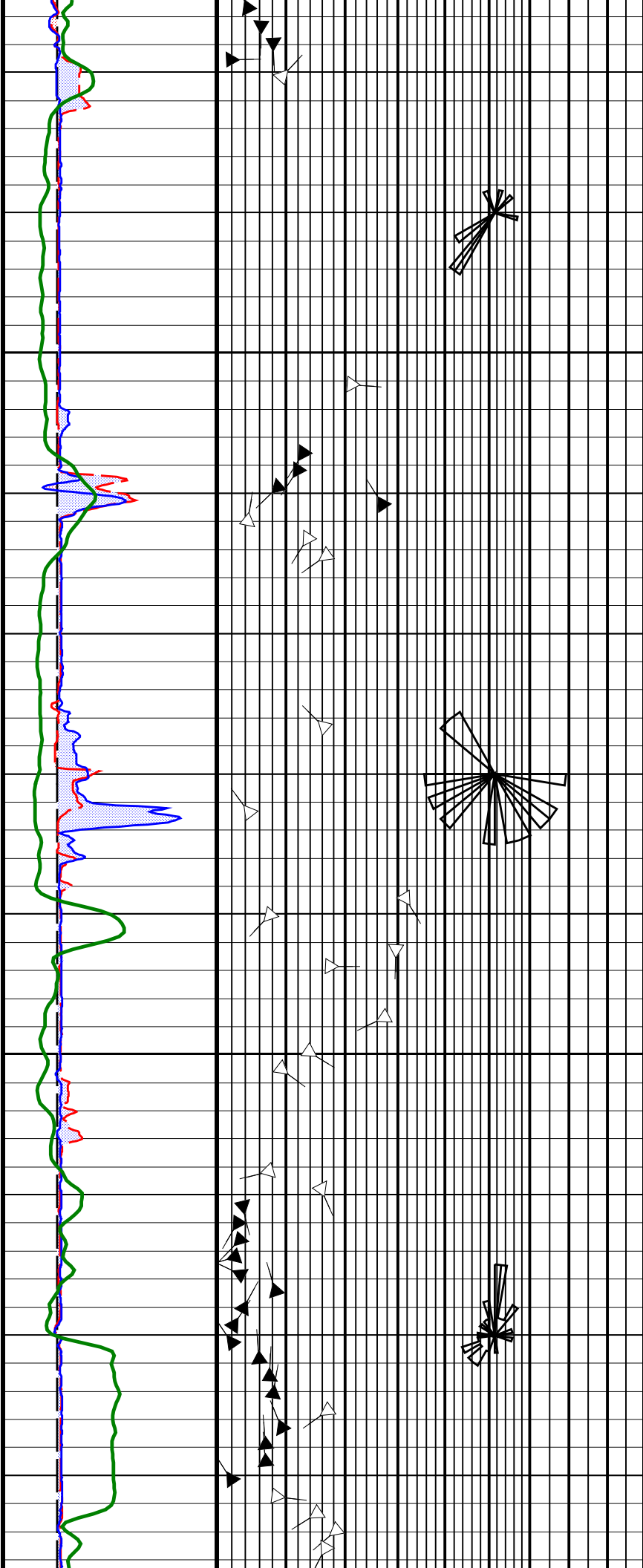
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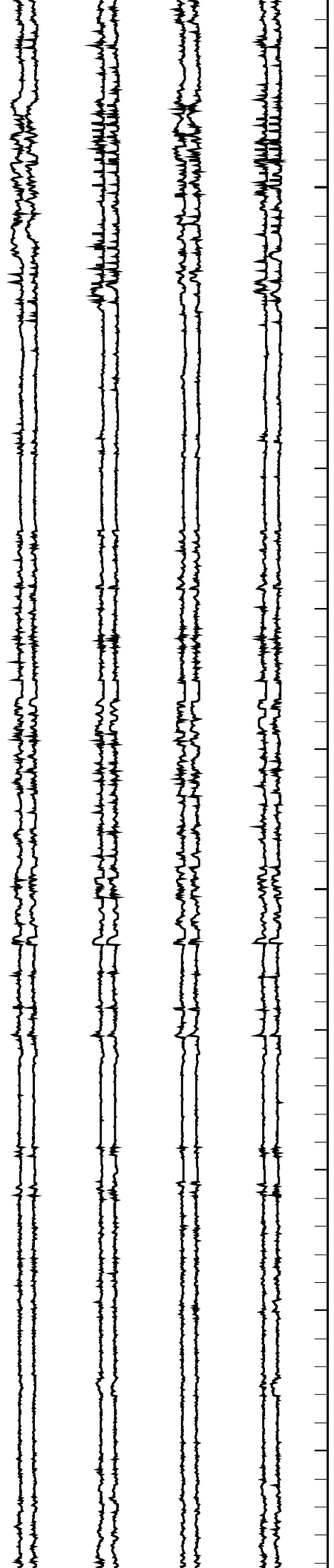
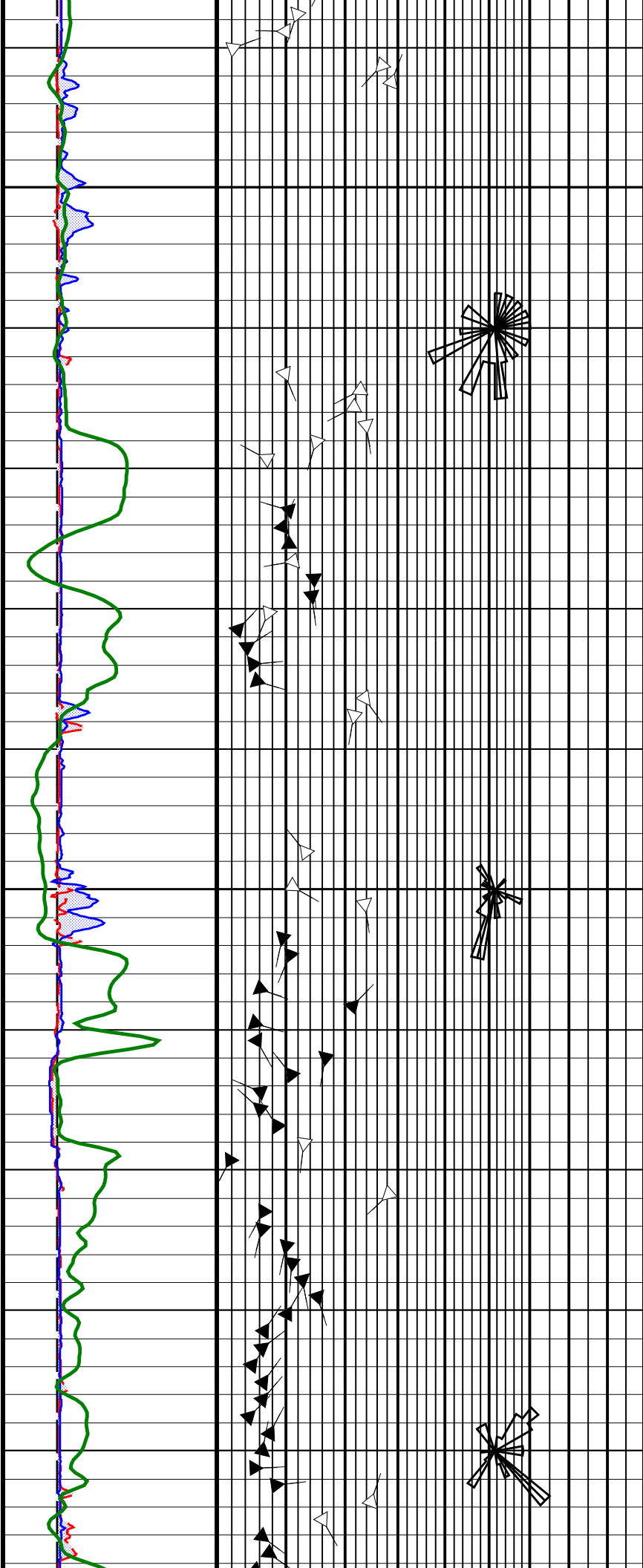
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sc

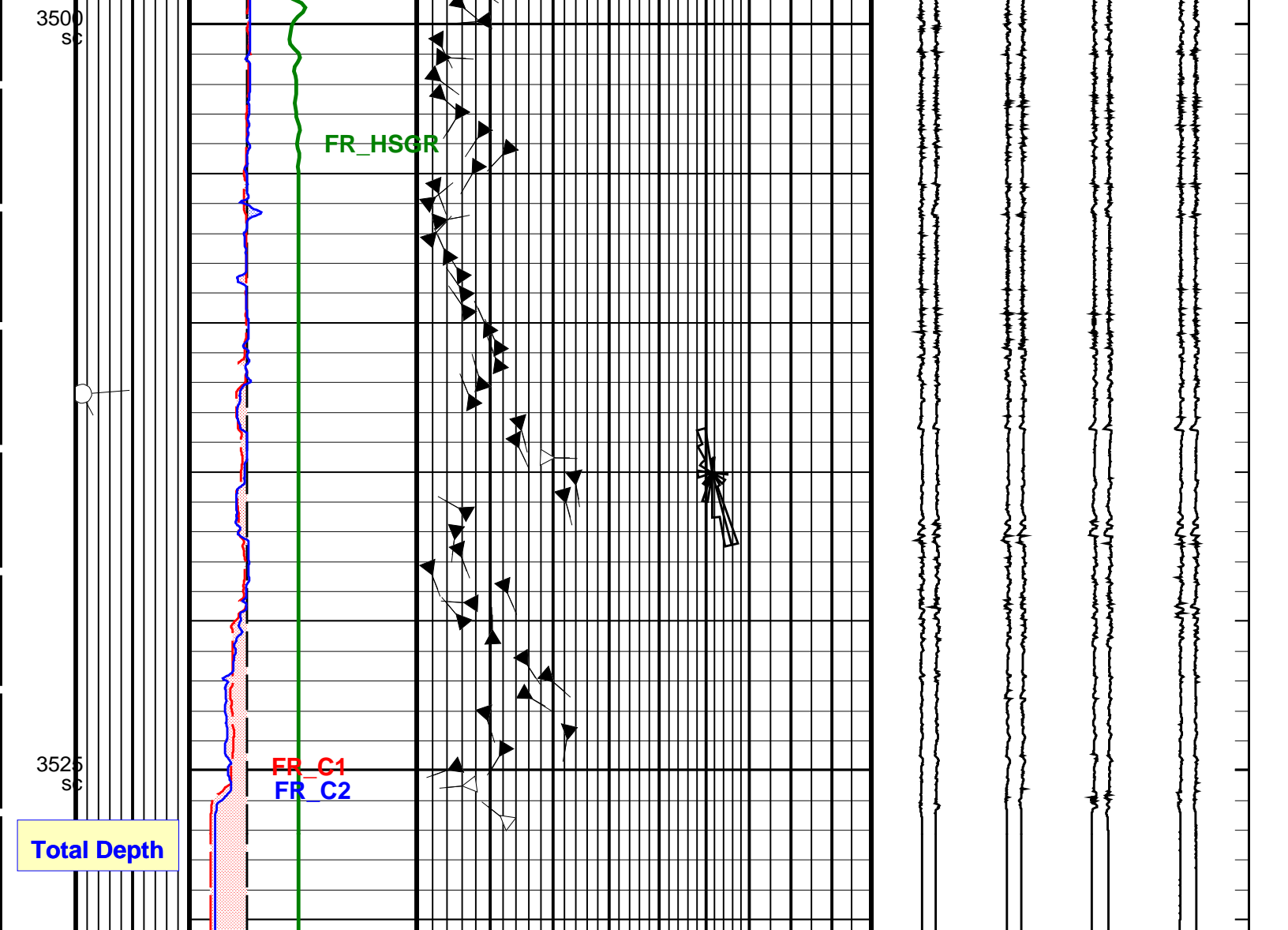
3425  
sc



3450  
SC

3475  
SC





<p>BHDrift (BHDrift) (DEG)</p> <p>0 10</p> <p>Hole Azimuth</p> <p>Pad 1 Azimuth</p>	<p>6 Bit Size (BS) (IN) 16</p>	<p>N</p> <p>W — E</p> <p>S</p> <p>Dip Azimuth</p> <p>MSD_Angle (MSD_Angle) (DEG)</p> <p>0 90</p>	<p>FMI dip buttons</p> <p>DB4A DB4</p> <p>DB3A DB3</p> <p>DB2A DB2</p> <p>DB1A DB1</p>
	<p>Washout</p>		
	<p>Undergauge</p>		
	<p>6 Caliper 1 (C1) (IN) 16</p>		
	<p>6 Caliper 2 (C2) (IN) 16</p>		
<p>0 HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 200</p>			

## OP System Version: 12C0-301

MCM

FBST-B	12C0-301	DSST-B	12C0-301
HNGC-A	12C0-301	HNGS-BA	12C0-301
DTA-A	12C0-301	DTC-H	12C0-301
DTPC-A	12C0-301		

## Parameters

DLIS Name	Description	Value	
FBST-B: Full-Bore Scanner - F			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
FBCD	Correct Dip Buttons Values by EMEX and Gain	OFF	
FLM	FMI Logging Mode	8PAD	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.4914	DEG
SOFF	Standoff	-1	IN
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	9.625	IN
CSD2	Outer Casing Outer Diameter	13.375	IN
CSW1	Inner Casing Weight	43.5	LB/F
CSW2	Outer Casing Weight	54.5	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0039335	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.998507	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00634	
DIP: Dip Computation			
	DIP Tool	FBST	
CSBL	CSB DIP Number of Levels	2L	
DPAD	Disabled Pad	NONE	
ELRA	Electrical Radius	0.5	IN
INT	Correlation Interval	1.2192	M
SANG	Correlation Search Angle	35	DEG
SBUT	DIP Set of Buttons	MSD	
SDFA	Side-by-Side Distance Factor	0.9	IN
SPAN	DIP Spanning	1/4	
STDA	Structural DIP Azimuth	0	DEG
STDI	Structural DIP Angle	0	DEG
STEP	Correlation Step	0.6096	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	8.500	IN
DFD	Drilling Fluid Density	9.40	LB/G
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

## Speed Corrected Depth Log

## Input DLIS Files

DEFAULT	FMI_DSI_NGS_085PUP	FN:77	PRODUCER	02-Dec-2004 11:34	3530.3 M	2386.7 M
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# Output DLIS Files

DEFAULT FMI\_DSI\_NGS\_034PUP FN:33 PRODUCER 03-Dec-2004 12:22

**Schlumberger**

**Repeat Section  
(1:200)**

MAXIS Field Log

Company: Origin Energy Resources Ltd. Well: Trefoil-1

## Input DLIS Files

DEFAULT FMI\_DSI\_NGS\_035PUP FN:34 PRODUCER 04-Dec-2004 12:37 3532.9 M 3356.2 M

## Output DLIS Files

DEFAULT FMI\_DSI\_NGS\_039PUP FN:38 PRODUCER 04-Dec-2004 16:01 3532.9 M 3361.3 M

Indexed to Speed Corrected Depth in this Playback

## Integrated Hole/Cement Volume Summary

Hole Volume = 6.06 M3

Cement Volume = 2.38 M3 (assuming 6.63 IN casing O.D.)

Computed from 3527.0 M to 3361.5 M using data channel(s) C1 C2

## OP System Version: 12C0-301

MCM

FBST-B	12C0-301	DSST-B	12C0-301
HNGC-A	12C0-301	HNGS-BA	12C0-301
DTA-A	12C0-301	DTC-H	12C0-301
DTPC-A	12C0-301		

## PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
  - └ Integrated Cement Volume Minor Pip Every 0.1 M3
  - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

**HNGS Spectroscopy Gamma  
Ray (HSGR)**

0 (GAPI) 200

**FMI Correlation Resistance  
(LOG) (FBCR)**

2 (KOHM) 2000

**Pad One Azimuth (P1AZ\_  
FBST)**

-40 (DEG) 360

**Hole Azimuth (HAZIM)**

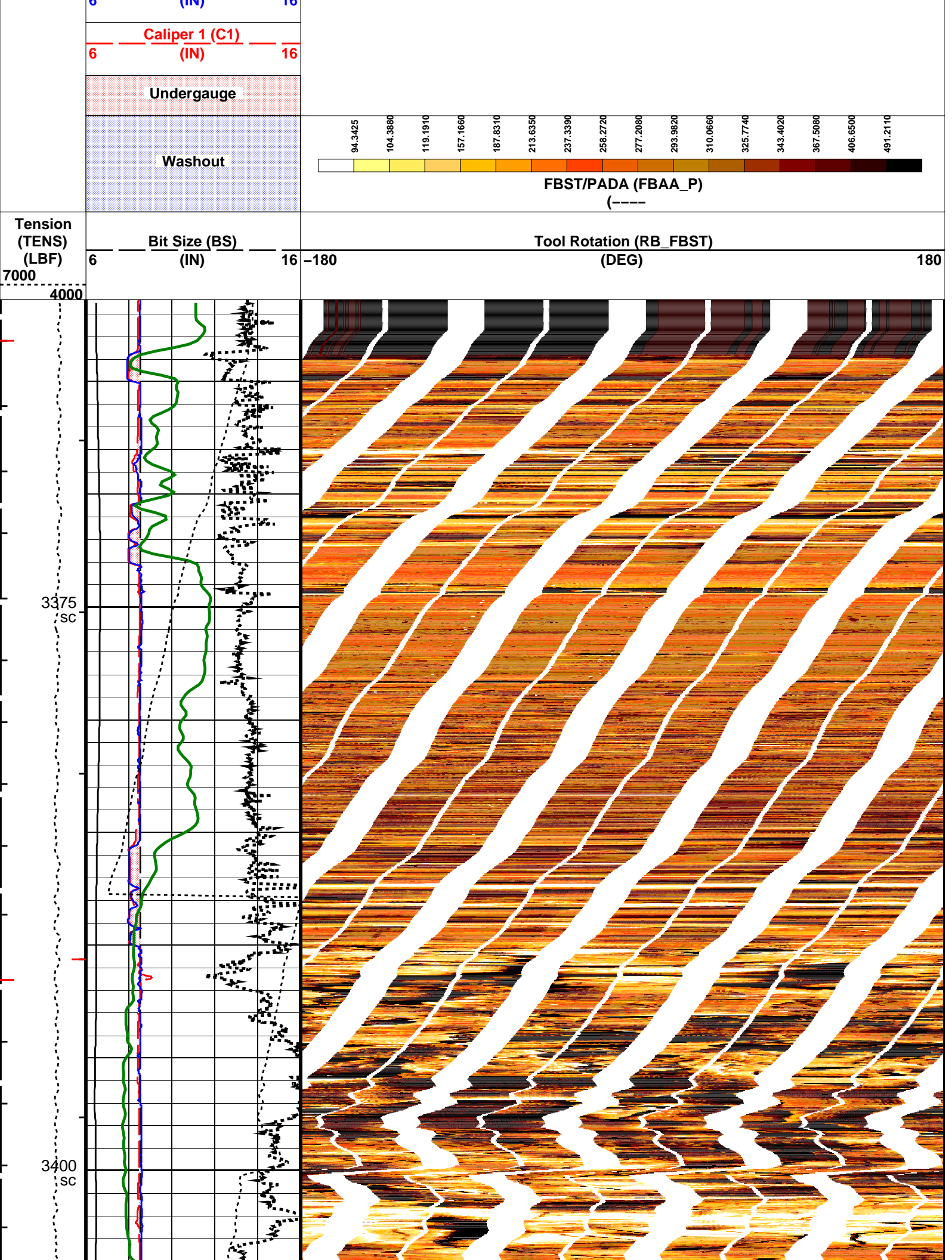
-40 (DEG) 360

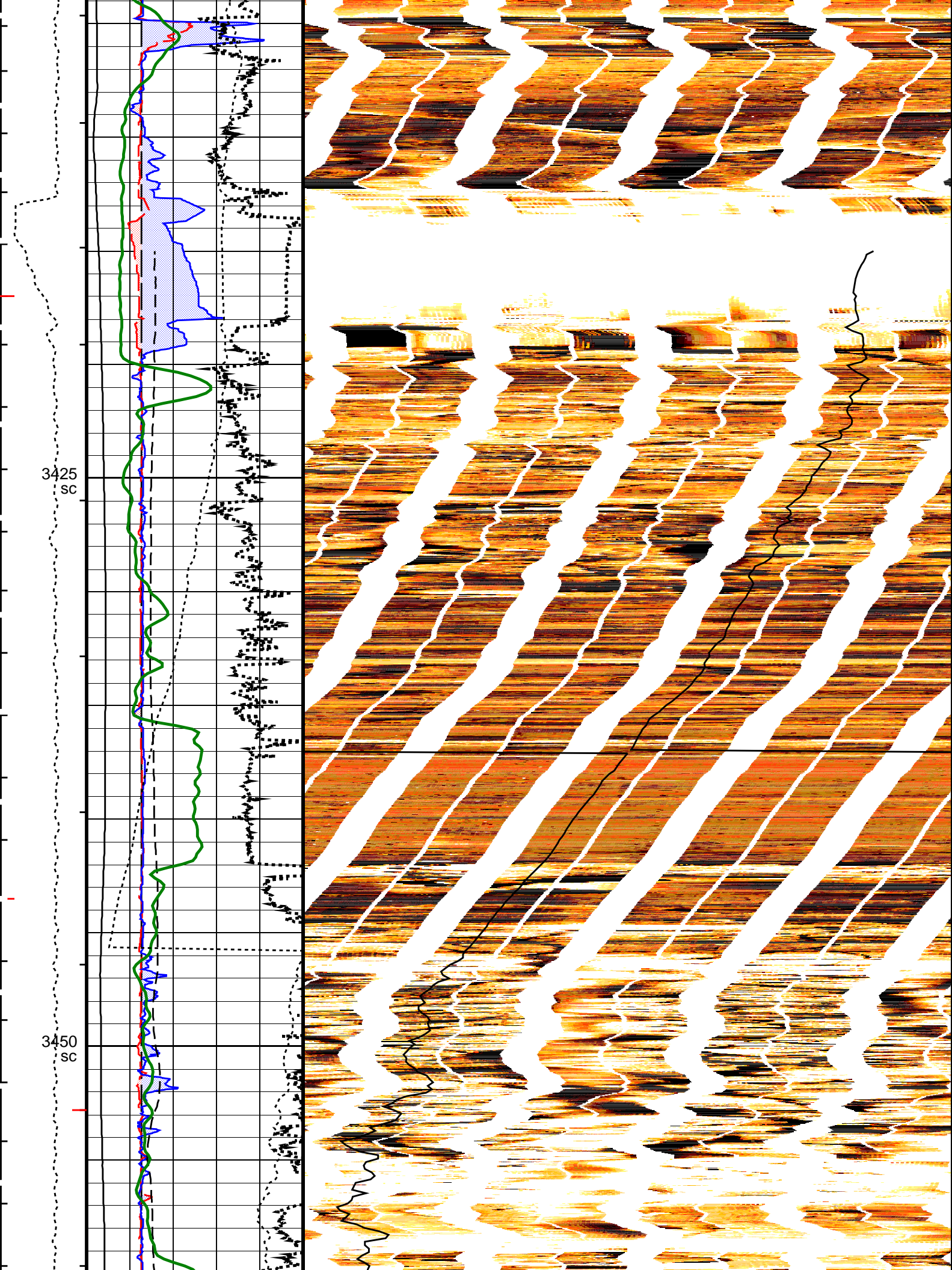
**Deviation (DEVIM)**

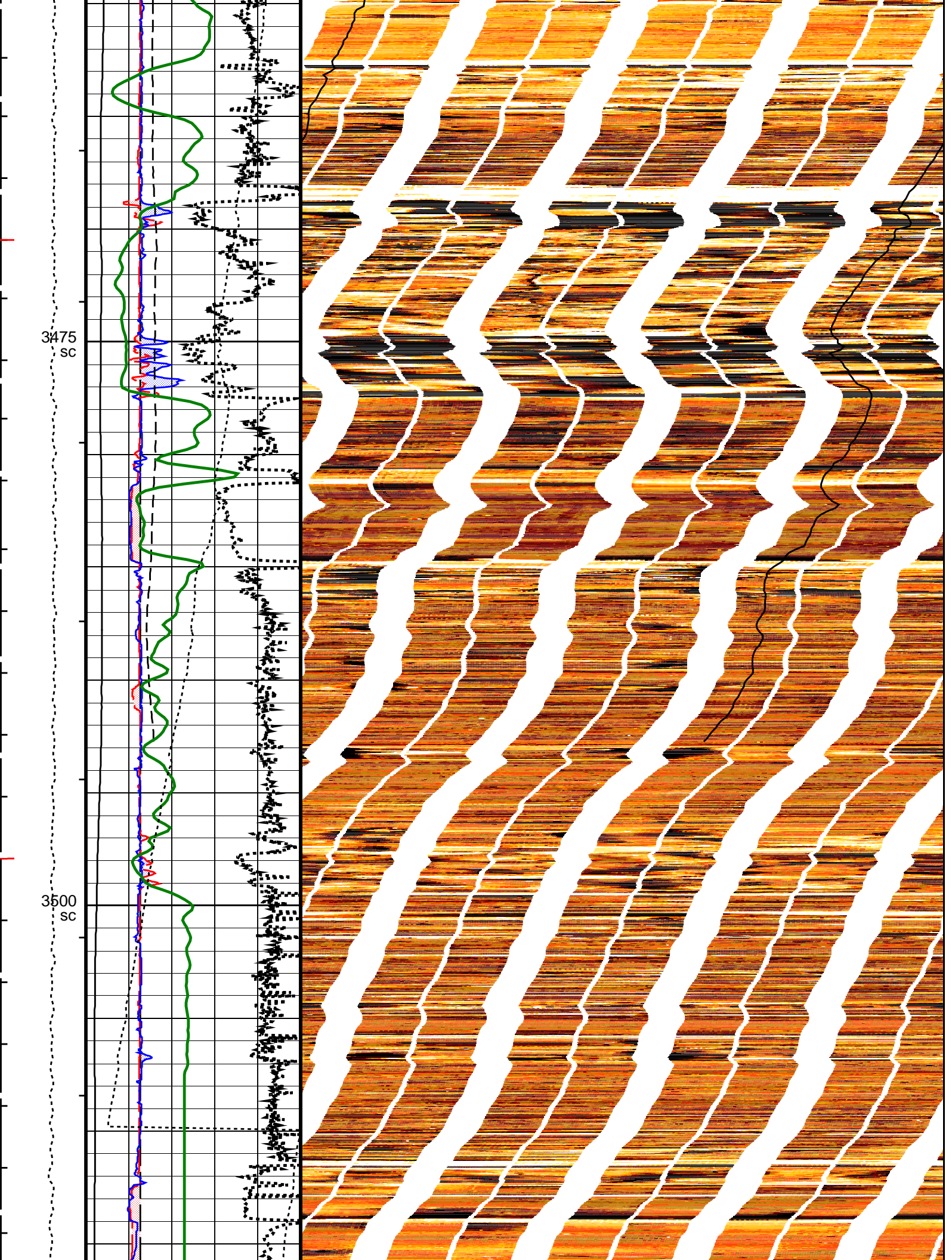
0 (DEG) 10

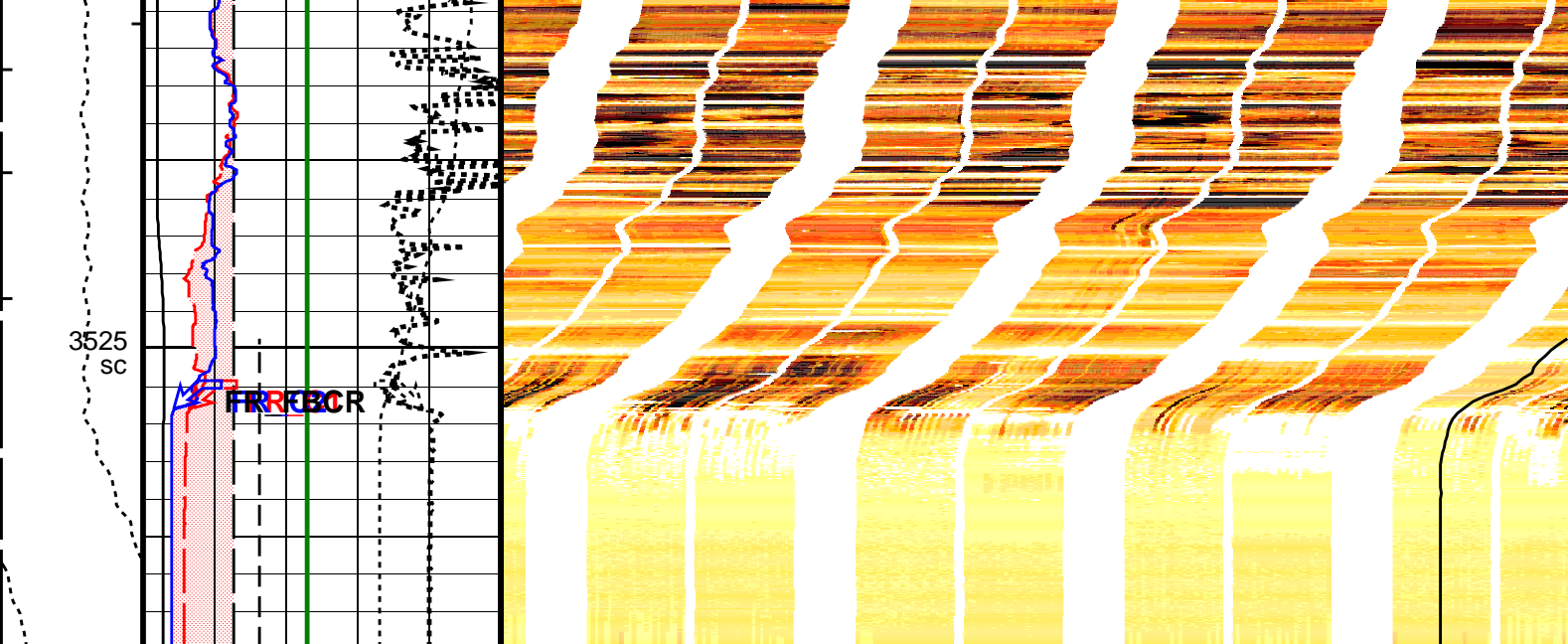
**Caliper 2 (C2)**

6 (IN) 16









Tension (TENS) (LBF)	Bit Size (BS) (IN)	Tool Rotation (RB_FBST) (DEG)
7000	6	-180
4000	16	180
Washout		94.3425 104.3880 119.1910 157.1660 187.8310 213.6350 237.3390 258.2720 277.2080 293.9820 310.0660 325.7740 343.4020 367.5080 406.6500 491.2110
Undergauge		FBST/PADA (FBAA_P) (---)
Caliper 1 (C1) (IN)	6	16
Caliper 2 (C2) (IN)	6	16
Deviation (DEVIM) (DEG)	0	10
Hole Azimuth (HAZIM) (DEG)	-40	360
Pad One Azimuth (P1AZ_FBST) (DEG)	-40	360
FMI Correlation Resistance (LOG) (FBCR) (KOHM)	2	2000
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	200

#### PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

FMI Image Equalised .

Resistive (White) to Conductive (Black)

# OP System Version: 12C0-301

MCM

FBST-B	12C0-301	DSST-B	12C0-301
HNGC-A	12C0-301	HNGS-BA	12C0-301
DTA-A	12C0-301	DTC-H	12C0-301
DTPC-A	12C0-301		

## Parameters

DLIS Name	Description	Value	
FBST-B: Full-Bore Scanner - F			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
EGCO	FMI EMEX and GAIN Correction	NO	
FDBD	FMI Dead Buttons detection	AUTO	
FDBP	FMI Dead Buttons Patching	OFF	
FIEQ	FMI Image Equalisation	ON	
FLM	FMI Logging Mode	8PAD	
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.4914	DEG
SOFF	Standoff	-1	IN
XGAI_FBST	Gain Value in Manual Mode	0_dB	
XGMO	EMEX & Gain Modes	EmexManu_GainManu	
XVOL	EMEX Voltage	0	V
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	9.625	IN
CSD2	Outer Casing Outer Diameter	13.375	IN
CSW1	Inner Casing Weight	43.5	LB/F
CSW2	Outer Casing Weight	54.5	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00348216	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.999193	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00257	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	6.625	IN
GCSE	Generalized Caliper Selection	BS	
HVCS	Integrated Hole Volume Caliper Selection	C1/C2	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	3545.10	M
TDL	Total Depth - Logger	3527.00	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
DFD	Drilling Fluid Density	9.40	LB/G
DO	Depth Offset for Playback	0.0	M
PBVSADP	Use alternate depth channel for playback	YES	
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	3527	M

## Speed Corrected Depth Log

Indexed to Speed Corrected Depth in this Playback

## Input DLIS Files

DEFAULT	FMI_DSI_NGS_035PUP	FN:34	PRODUCER	04-Dec-2004 12:37	3532.9 M	3356.2 M
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# Output DLIS Files

DEFAULT

FMI\_DSI\_NGS\_039PUP

FN:38

PRODUCER

04-Dec-2004 16:01

**Schlumberger**

## Calibrations

### MAXIS Field Log

#### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-Bore Scanner – B Wellsite Calibration – Caliper Calibration							
Before: 21-Nov-2004 7:12							
Caliper 1 Small Jig	8.000	N/A	7.026	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	6.941	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	11.51	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	10.94	N/A	N/A	N/A	IN
Full-Bore Scanner – B Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 21-Nov-2004 5:10							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	95	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	292	N/A	N/A	N/A	
Full-Bore Scanner – B Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 21-Nov-2004 5:10							
TEMPERATURE REFERENCE :	N/A	N/A	31	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	173	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15							
Na 511 Peak Loc	40.00	40.59	40.47	N/A	N/A	1.000	
Na 511 Peak Res	15.50	17.06	18.36	N/A	N/A	2.000	%
High Voltage	1150	1286	1288	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	145.3	146.2	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	10.48	9.773	N/A	N/A	2.000	%
Temperature	15.50	19.43	19.78	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	21.72	21.01	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15							
Na 511 Peak Loc	40.00	40.58	40.62	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.30	16.18	N/A	N/A	2.000	%
High Voltage	1150	1245	1247	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	145.2	144.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.098	8.969	N/A	N/A	2.000	%
Temperature	15.50	20.06	20.28	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	21.82	21.06	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15							
Coincidence Count Rate Ratio	1.000	0.9940	0.9959	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration							
Master: 20-Nov-2004 23:57							
Na 511 Peak Set Point	40.00	42.00	---	---	---	---	
Th Peak Loc	209.6	208.8	---	---	---	---	
Th Peak Res	7.000	8.378	---	---	---	---	%
Background Count Rate	142.5	16.70	---	---	---	---	CPS
Gain Ratio	1.000	0.9789	---	---	---	---	

Na 511 Peak Set Point	40.00	42.00	--	--	--	--
Th Peak Loc	209.6	209.4	--	--	--	--
Th Peak Res	7.000	7.666	--	--	--	--
Background Count Rate	142.5	15.85	--	--	--	--
Gain Ratio	1.000	0.9815	--	--	--	--





%  
CPS

Full-Bore Scanner – B / Equipment Identification

Primary Equipment:				
FullBore Scanner Sonde	FBSS – B	830		
FullBore Scanner Sonde Upper part	FBSH – A	855		
FullBore Scanner Sonde Cartridge	FBSC – B	858		
GPIT Cartridge – AC	GPIC – AC	735		
Insulating Sub	AH – 185	909		
FullBore Scanner Control Cartridge	FBCC – A	794		
Auxiliary Equipment:				
Electronics Cartridge Housing	ECH – MRA	4742		

Full-Bore Scanner – B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.026	Before		6.941
	6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)			6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)	
Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before		11.51	Before		10.94
	10.20 (Minimum) 12.00 (Nominal) 13.80 (Maximum)			10.20 (Minimum) 12.00 (Nominal) 13.80 (Maximum)	

Before: 21–Nov–2004 7:12

Hostile Natural Gamma Ray Cartridge – A / Equipment Identification













Primary Equipment:				
HNGC Cartridge	HNGC – A	10		
Auxiliary Equipment:				
HNGC Housing	HNGH – A	3		

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:				
HNGS Sonde	HNGS – BA	28		
Auxiliary Equipment:				
HNGS Sonde Housing	HNSH – BA	28		
Gamma Source Radioactive	GSR – U	2003		

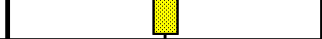

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		40.59	Master		17.06	Master		1286
Before		40.47	Before		18.36	Before		1288
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		145.3	Master		10.48	Master		19.43
Before		146.2	Before		9.773	Before		19.78
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15

Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9940
Before		0.9959

Master: 20–Nov–2004 23:57  
 Before: 21–Nov–2004 7:15

Master: 20-Nov-2004 23:57

Master: 20-Nov-2004 23:57

Company: **Origin Energy Resources Ltd.**

**Schlumberger**

Well: **Trefoil-1**

Field: **Trefoil**

Rig: **ENSCO 102**

Country: **Australia**

FMI-DSI-HNGS  
Formation Micro Imager  
1:200 Scale