



Company: ESSO Australia Pty Ltd

Well: West Moonfish-1

Field: West Moonfish

Rig: ENSCO 102

Country: Australia

West Moonfish

Location: VIC/L10 Zone AMG 55

Well: West Moonfish-1

Company: ESSO Australia Pty Ltd

DSI-MSFL-HNGS

Sonic and MSFL Print MAIN PASS

Scale 1:200 RUSH FIELD PRINT

VIC/L10 Zone AMG 55  
Easting 585687.25  
Northing 5777075.49  
Elev.: K.B. 39.2 m  
G.L. -52 m  
D.F. 39.2 m

Permanent Datum: MEAN SEA LEVEL  
Log Measured From: DRILL FLOOR (RT)  
Drilling Measured From: DRILL FLOOR (RT)  
Elev.: 0 m  
39.2 m above Perm. Datum

State: Victoria  
Max. Well Deviation 37.5 deg  
Longitude 147 58' 40.63" E  
Latitude 32 9' 0.48" S

Logging Date

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

Source Of Sample

RM @ Measured Temperature

RMF @ Measured Temperature

CMC @ Measured Temperature

Source RMF

RM @ MRT

RMF @ MRT

Maximum Recorded Temperatures

Circulation Stopped

Logger On Bottom

Unit Number

Location

Recorded By

Witnessed By

Run 1

Run 2

Run 3

Logging Date

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

Source Of Sample

RM @ Measured Temperature

RMF @ Measured Temperature

CMC @ Measured Temperature

Source RMF

RM @ MRT

RMF @ MRT

Maximum Recorded Temperatures

Circulation Stopped

Logger On Bottom

Unit Number

Location

Recorded By

Witnessed By

DEPTH SUMMARY LISTING	
-----------------------	--

Date Created: 6-FEB-2005 21:18:52

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-E	Type:	CMTD-B/A	Type:	7-46ZV-XS
Serial Number:	1914	Serial Number:	2336	Serial Number:	74172
Calibration Date:	24-Mar-04	Calibration Date:	15-Jan-05	Length:	7089.95 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1051		
Calibration Cable Type:	7-46ZV-XS	Calibration Gain:	0.81	Conveyance Method:	Wireline
Wheel Correction 1:	-5	Calibration Offset:	509.00	Rig Type:	Offshore_Fixed
Wheel Correction 2:	-5				

Depth Control Parameters	
--------------------------	--

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	
Reference Log Run Number:	
Reference Log Date:	06-Feb-05
Subsequent Trip Down Log Correction:	2.50 M

Depth Control Remarks
-----------------------

1. This is a subsequent trip in the well.
2. Log correlated to Casing Shoe as per clients request.
3. Raw Suite 2 data depth offset 2.5 M to Suite 1 data. Processed data on depth with Suite 1.
4. Raw Suite 2 data depth offset to MWD data 1.8 M at ~3000 M and 2.5 M at ~2580 M.
- 5.
- 6.

<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 SERVICES1	OTHER SERVICES2
OS1: MDT	OS1:
OS2: VSP	OS2:
OS3: CST	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1
Toolstring run as per toolsketch. Four 1.5in standoffs used on the DSI.
DSI logged Upper Dipole and P&S mode from TD to casing shoe as per client request.
Repeat section performed from 2965m to 3035m.
Maximum recorded temperature was XXX degC from thermometers in logging tool.
HNGS data corrected for borehole potassium and barite during playback.

REMARKS: RUN NUMBER 2
ent request.
ng head.

Toolstring run as per toolsketch. Four 1.5in standoffs used on the DSI.
DSI logged Upper Dipole and P&S mode from TD to casing shoe as per client request.
Repeat section performed from 2965m to 3035m.
Maximum recorded temperature was XXX degC from thermometers in logging tool.
HNGS data corrected for borehole potassium and barite during playback.

ent request.
ng head.

DSI logged Upper Dipole and P&S mode from TD to casing shoe as per client request.
Repeat section performed from 2965m to 3035m.
Maximum recorded temperature was XXX degC from thermometers in logging tool.
HNGS data corrected for borehole potassium and barite during playback.

ent request.
ng head.

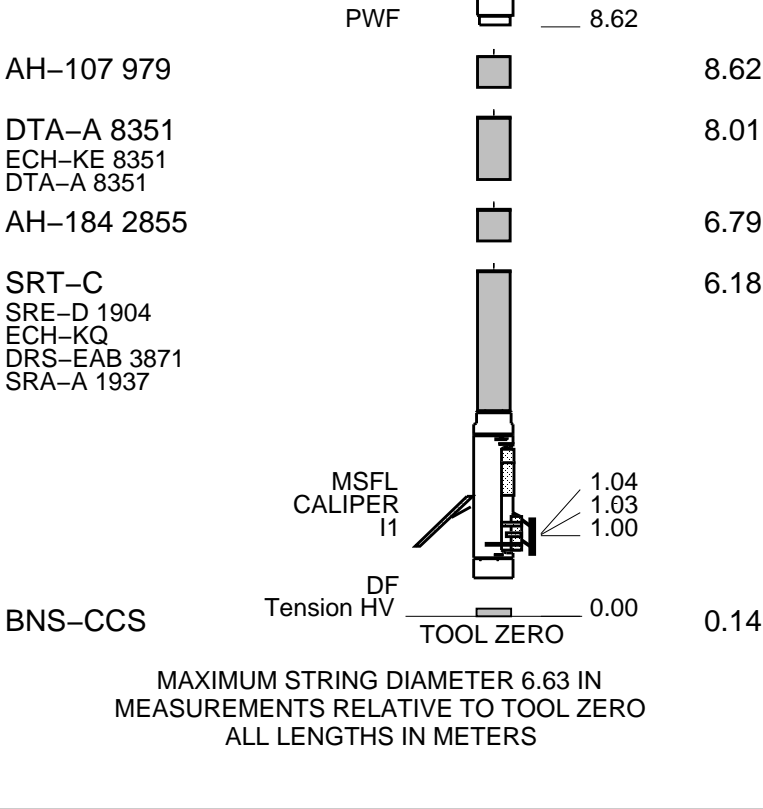
Maximum recorded temperature was XXX degC from thermometers in logg
HNGS data corrected for borehole potassium and barite during playback.

HNGS data corrected for borehole potassium and barite during playback.

[illegible]

**DOWNHOLE EQUIPMENT**

Equipment Component	Depth (ft)
LEH-QT	29.54
LEH-QT 1519	
DTC-H 8457	28.65
ECH-KC 9532	27.73
HNGS-BA	27.73
HNGS-BA 129	27.03
HNSH-BA 133	26.82
HNGC-B	25.23
HNGH-A 71	
DSST-B	24.17
SPAC-B 8056	
ECH-SD 8038	
SMDR-BD 8094	
SSIJ-BA 8142	
SMDX-AA 8063	
1.5 IN Standoff	
1.5 IN Standoff	
1.5 IN Standoff	



Client: ESSO Australia Pty Ltd

Well: West Moonfish-1

Field: West Moonfish

State: Victoria

Country: Australia

Rig Name: ENSCO 102

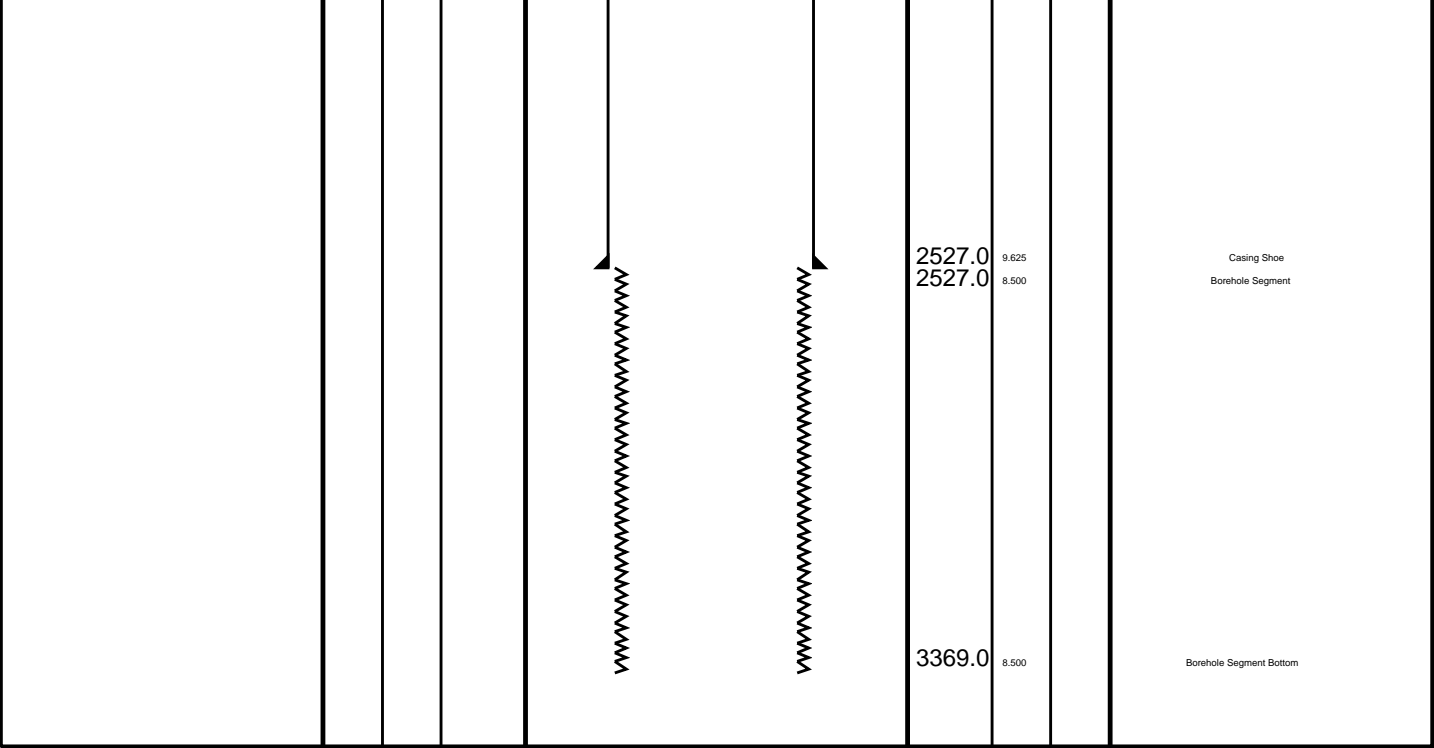
Reference Datum: Mean Sea Level

Elevation: 52.0 m

Drawing Date: 2/6/2005

API #:

Production String	(m)			Well Schematic			(m)			Casing String
	OD	ID	MD				MD	OD	ID	
							0.0	13.375		Casing String
							0.0	9.625		Casing String
							755.4	13.375		Casing Shoe



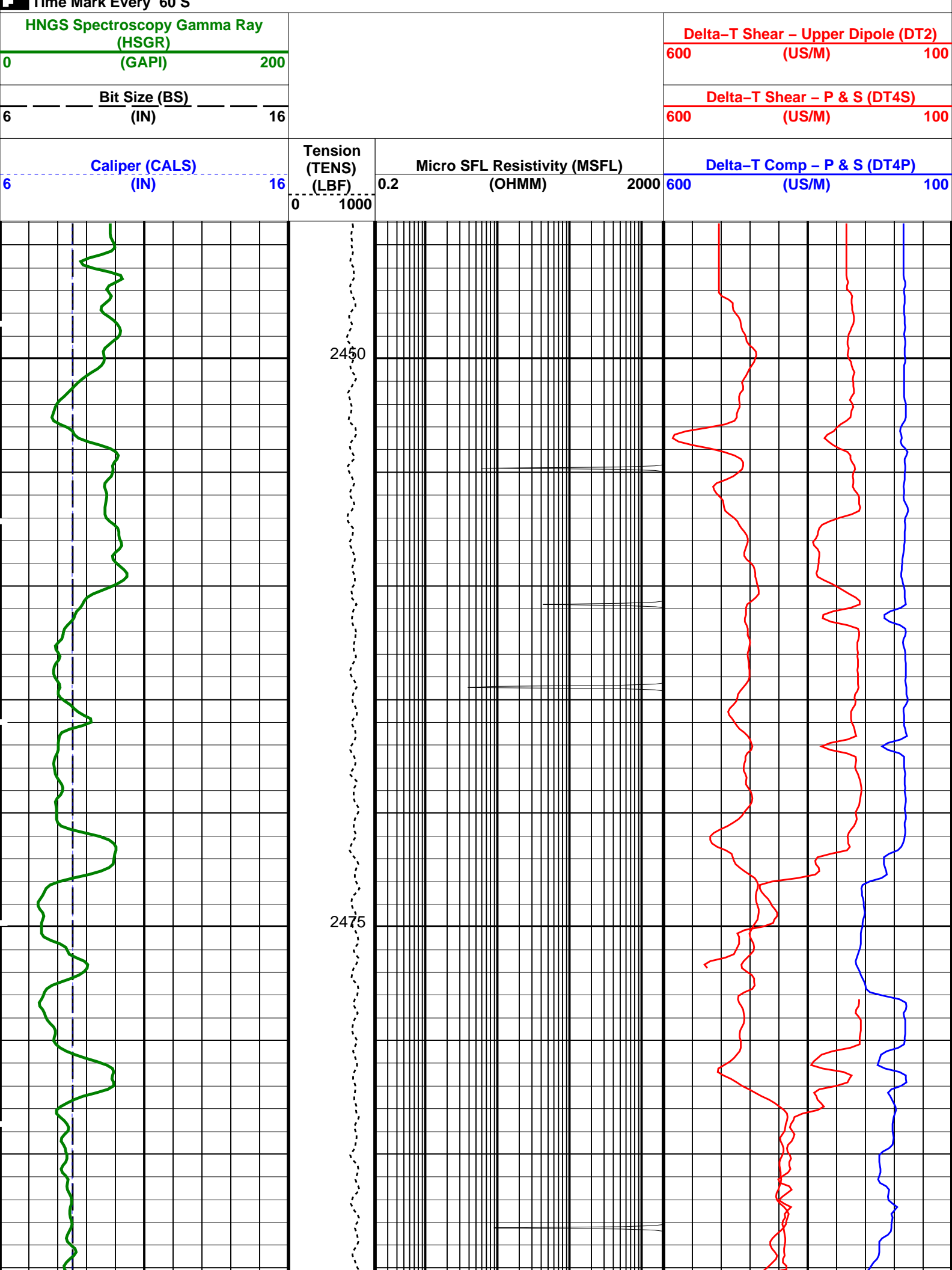
ALL DEPTHS ARE DRILLERS DEPTHS

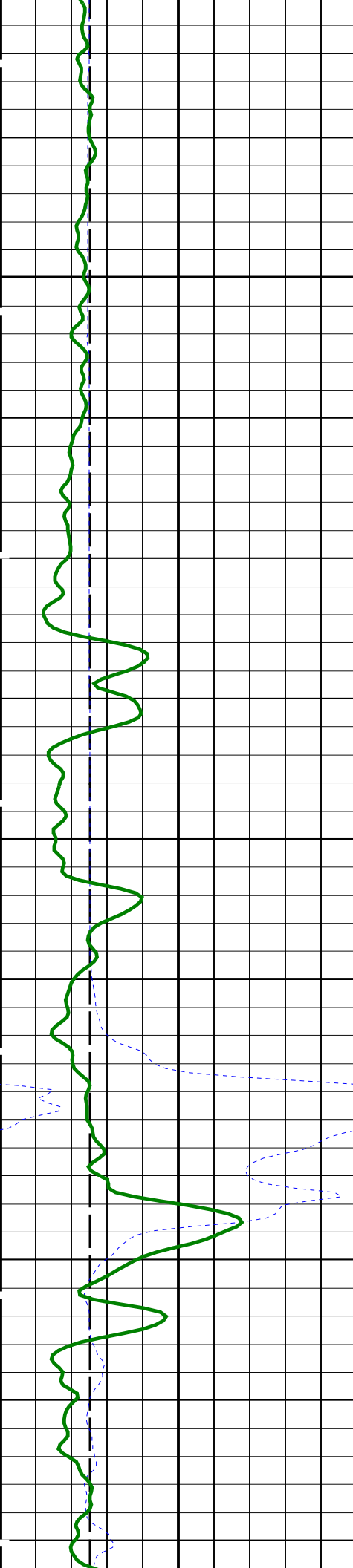


Main Pass  
1:200

MAXIS Field Log

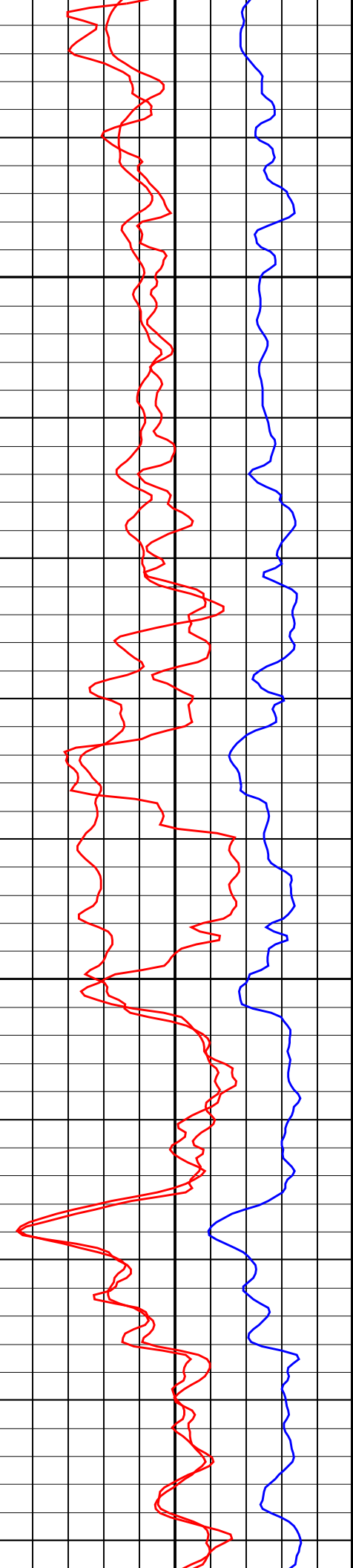
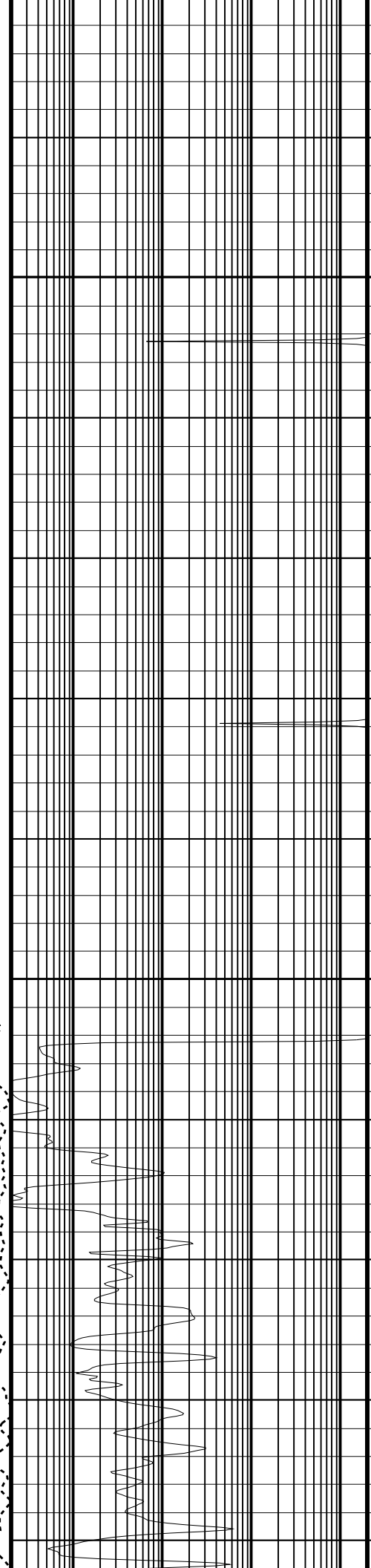
Company: ESSO Australia Pty Ltd				Well: West Moonfish-1			
Input DLIS Files							
DEFAULT	MSFL_DSI_NGS_038LUP	FN:42	PRODUCER	06-Feb-2005 18:44	3376.4 M	2435.0 M	
Output DLIS Files							
DEFAULT	MSFL_DSI_NGS_039PUP	FN:44	PRODUCER	06-Feb-2005 20:57	3378.9 M	2443.9 M	
RTBU	MSFL_DSI_NGS_039PUP	FN:45	PRODUCER	06-Feb-2005 20:58	3378.9 M	2443.9 M	
OP System Version: 13C0-300							
MCM							
SRT-C	13C0-300		DTA-A	13C0-300			
DSST-B	13C0-300		HNGC-B	13C0-300			
HNGS-BA	13C0-300		DTC-H	13C0-300			



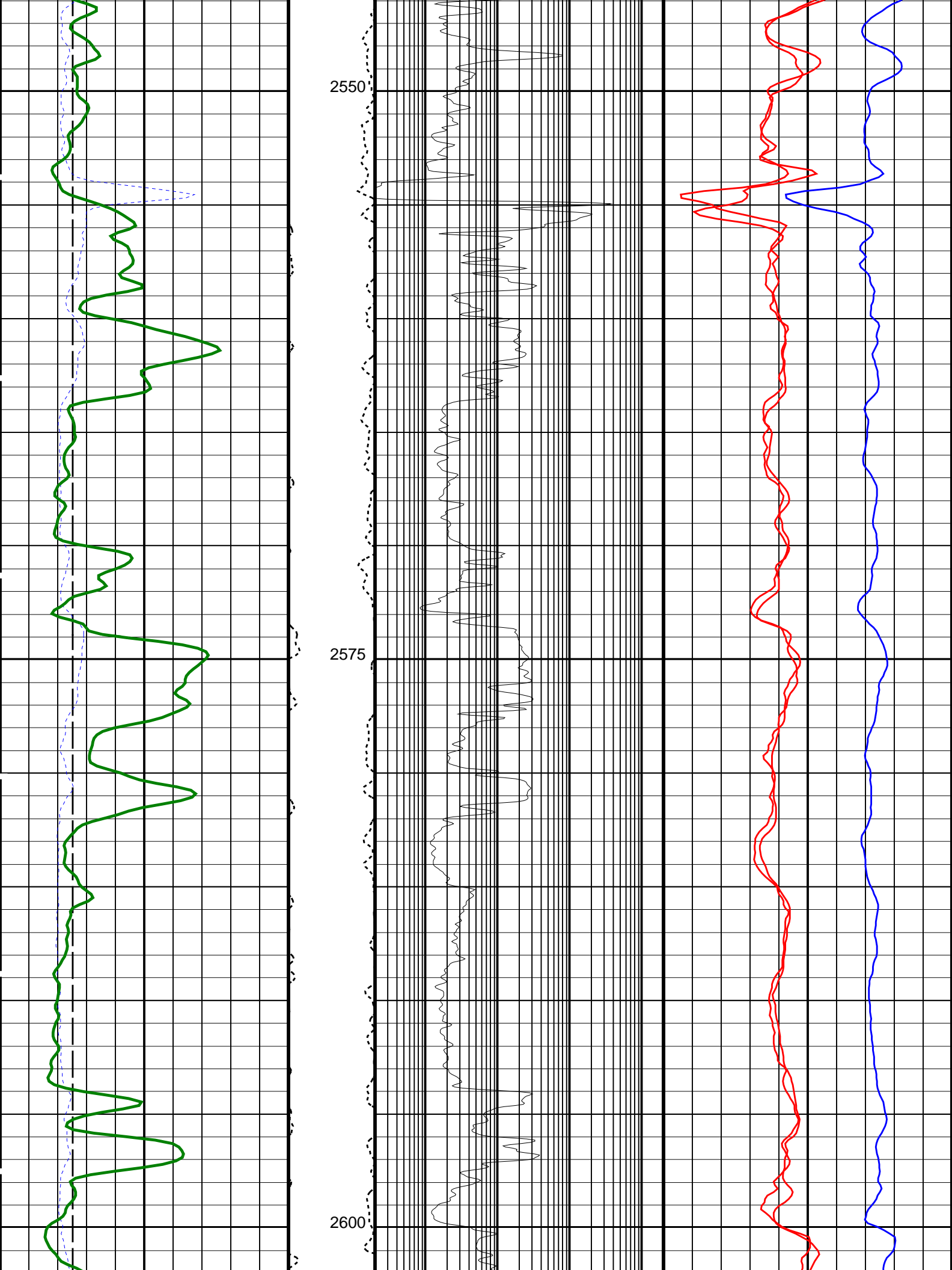


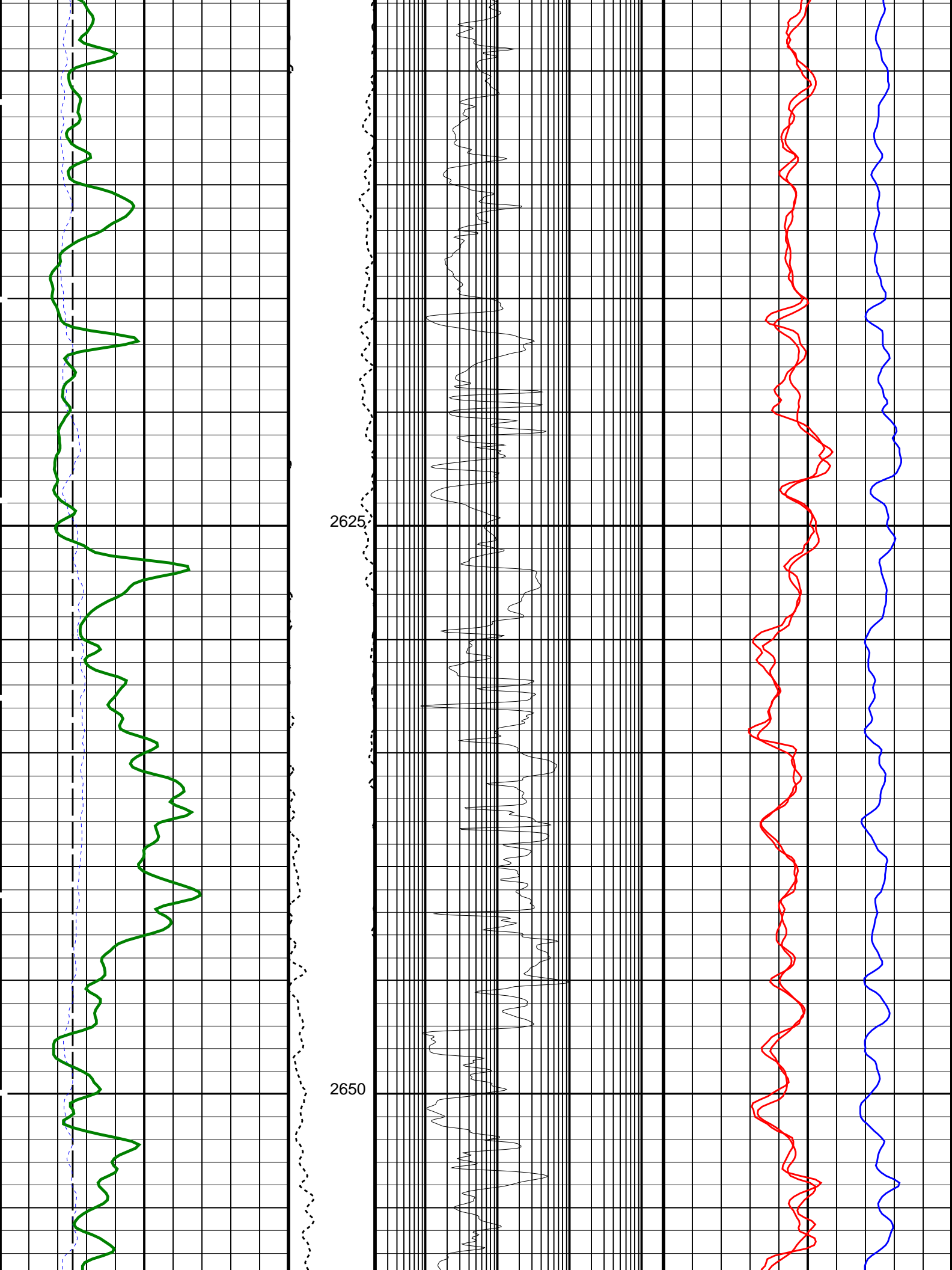
2500

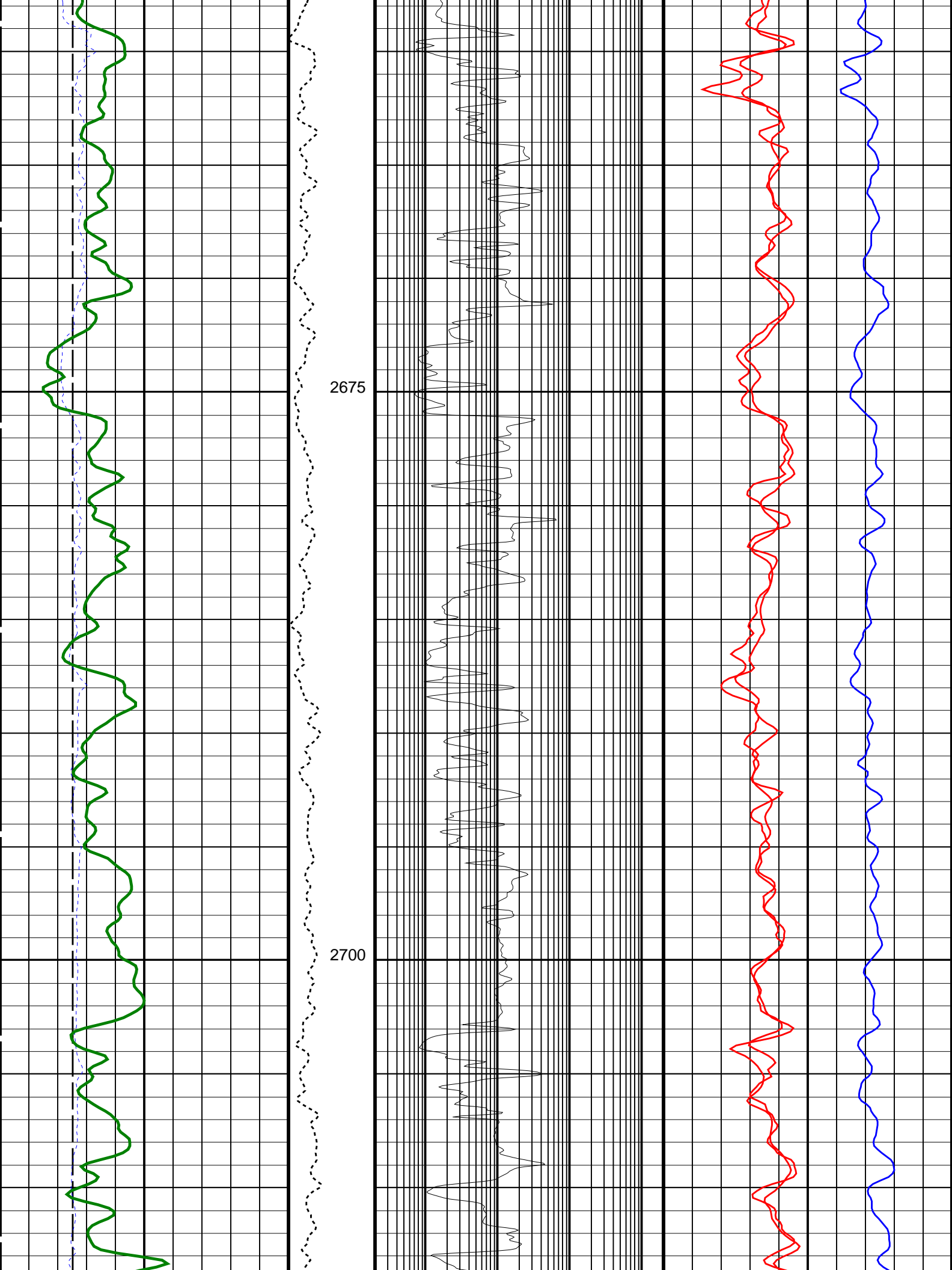
2525

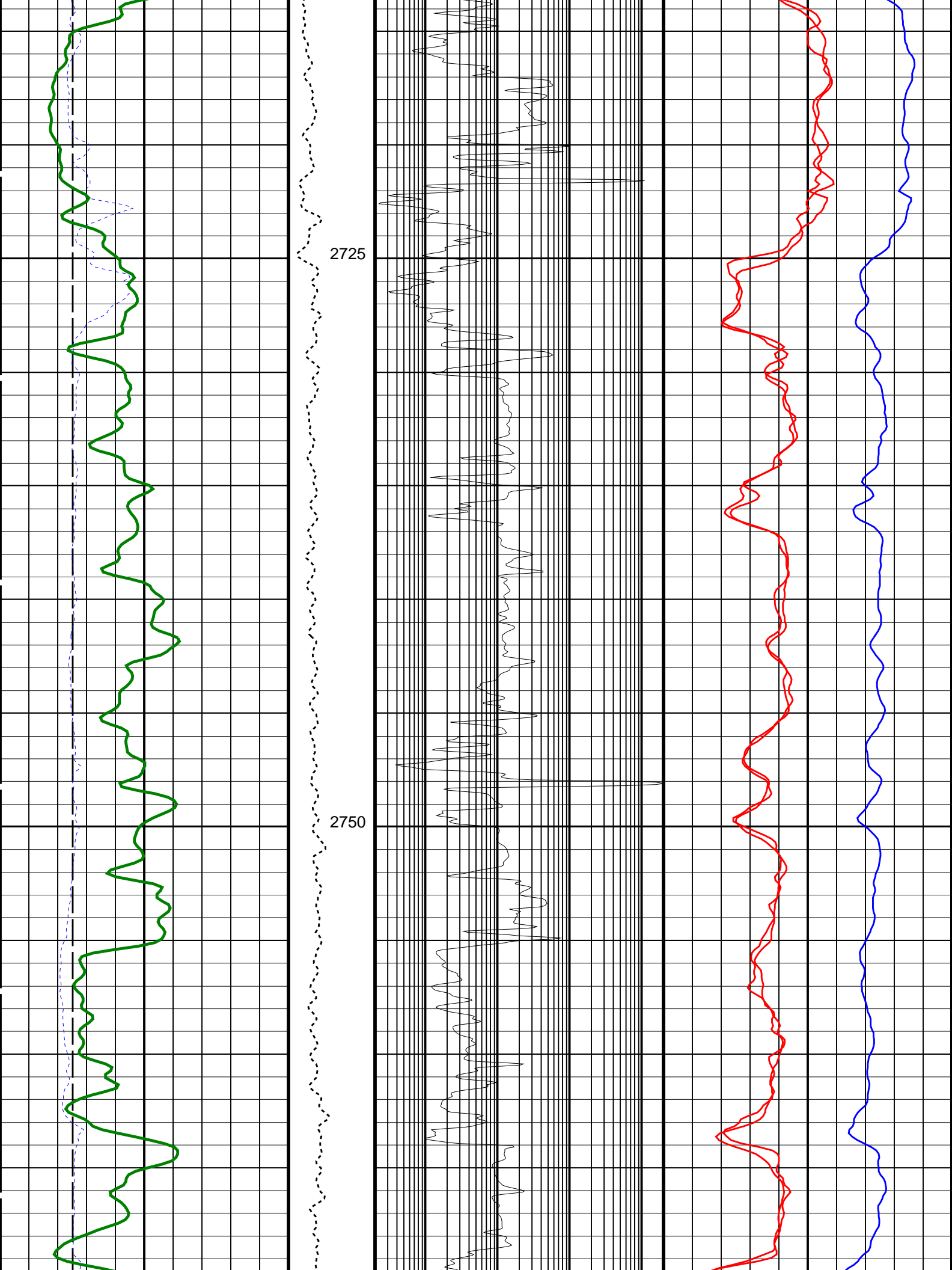


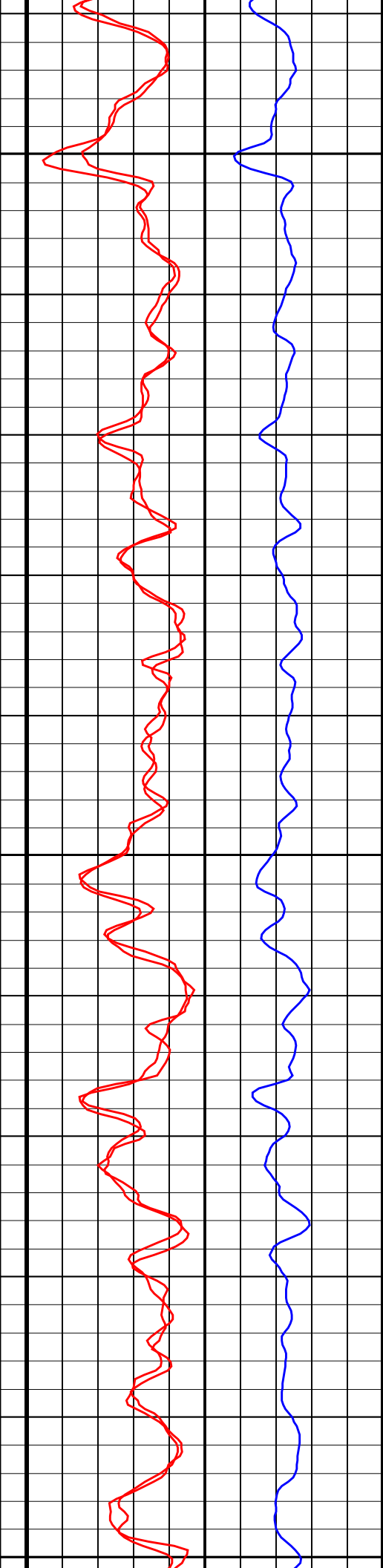
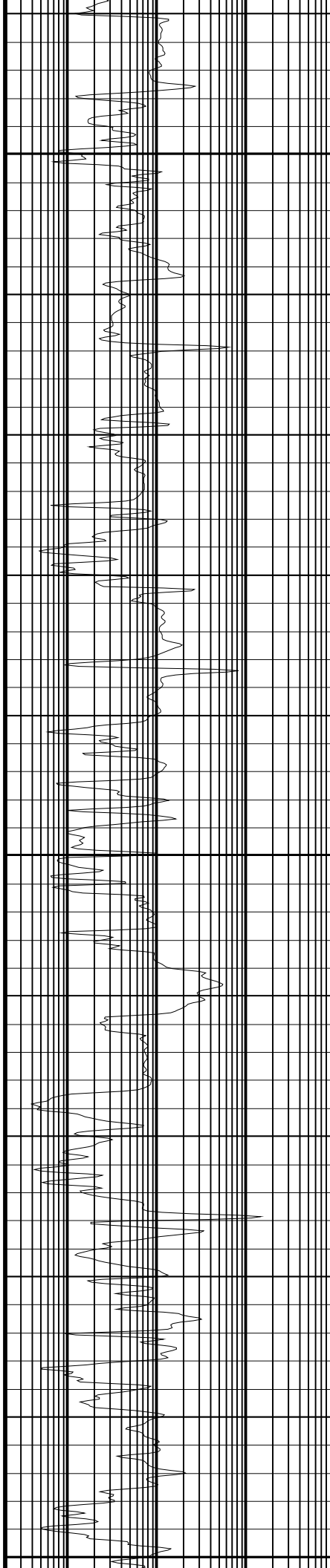
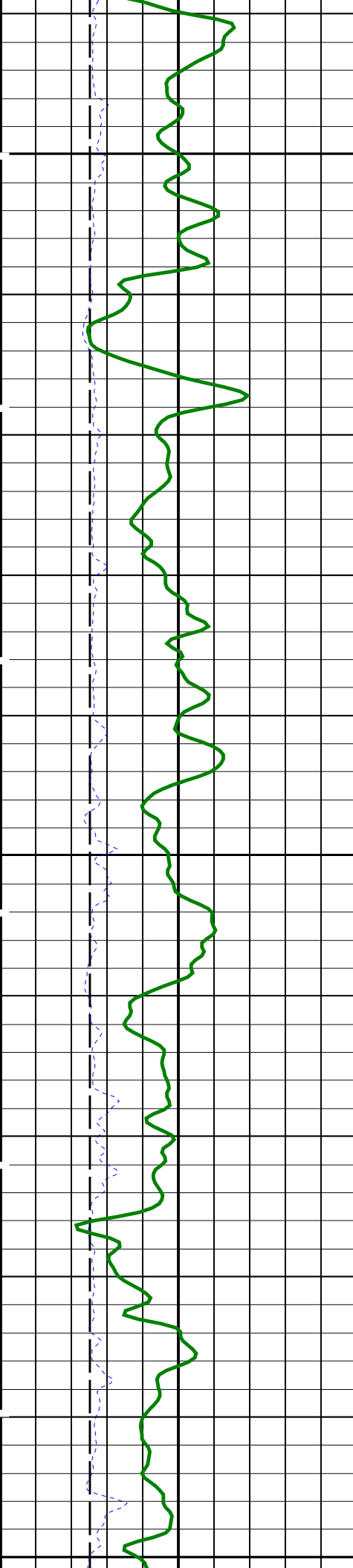


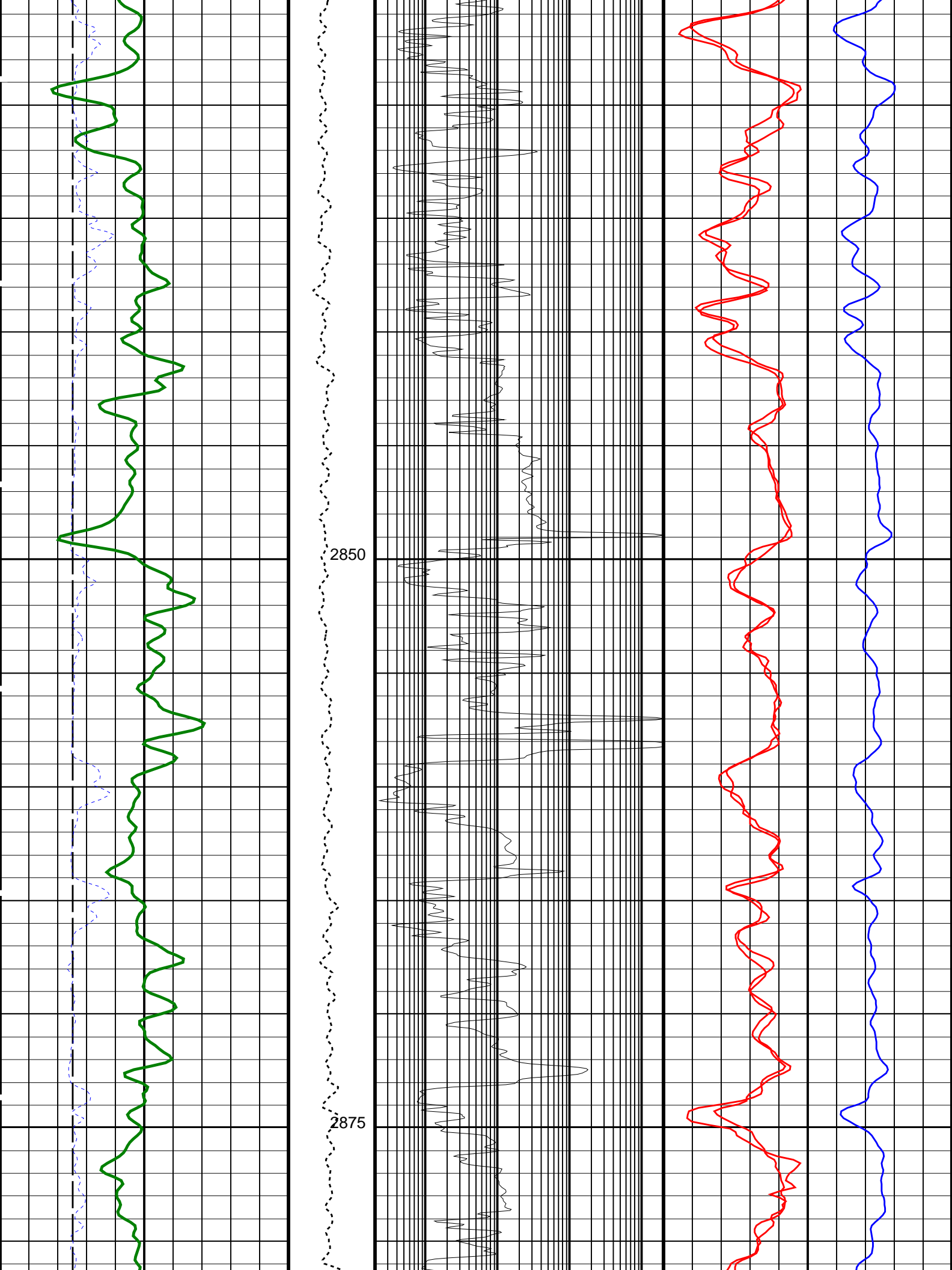


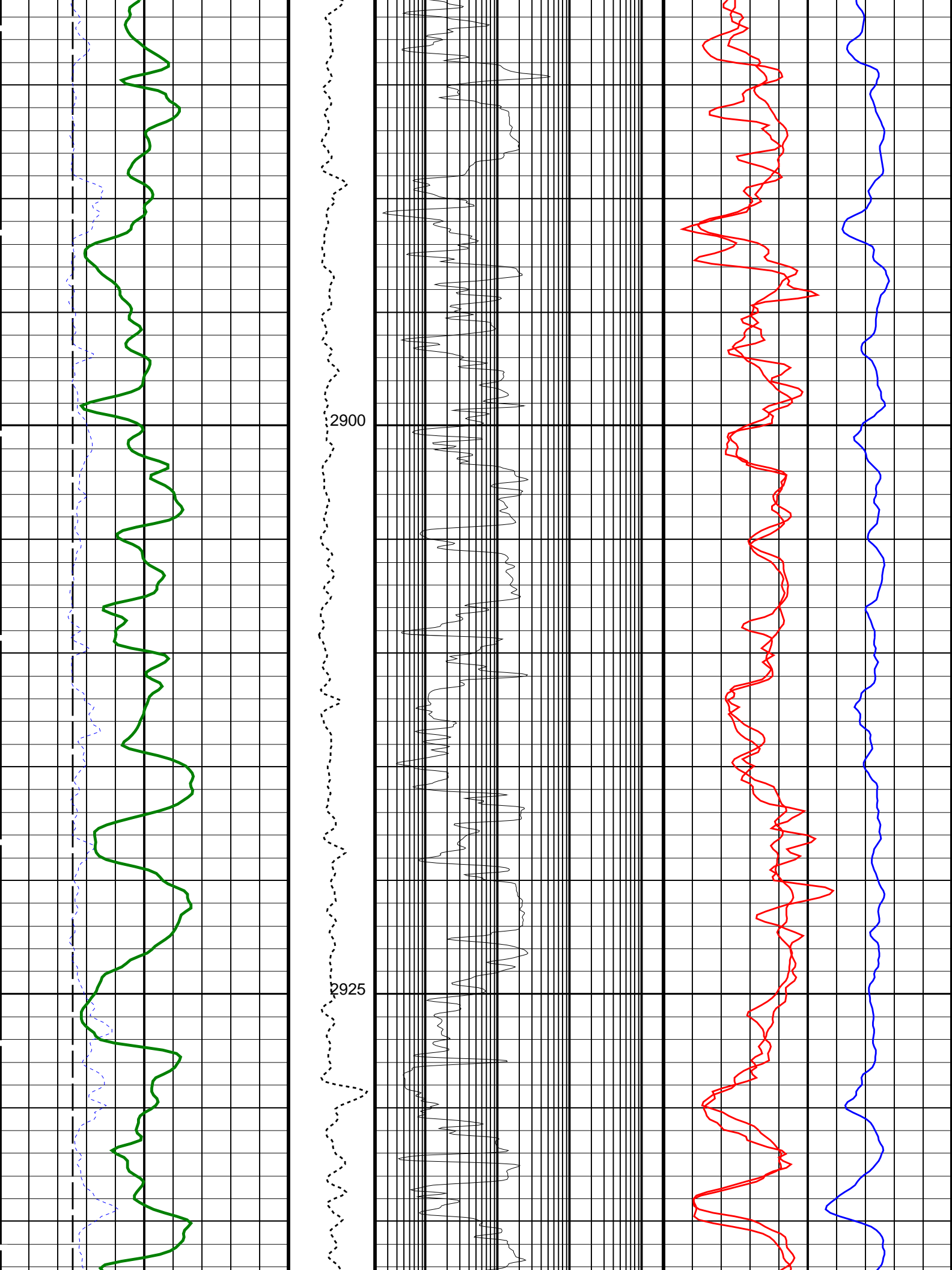


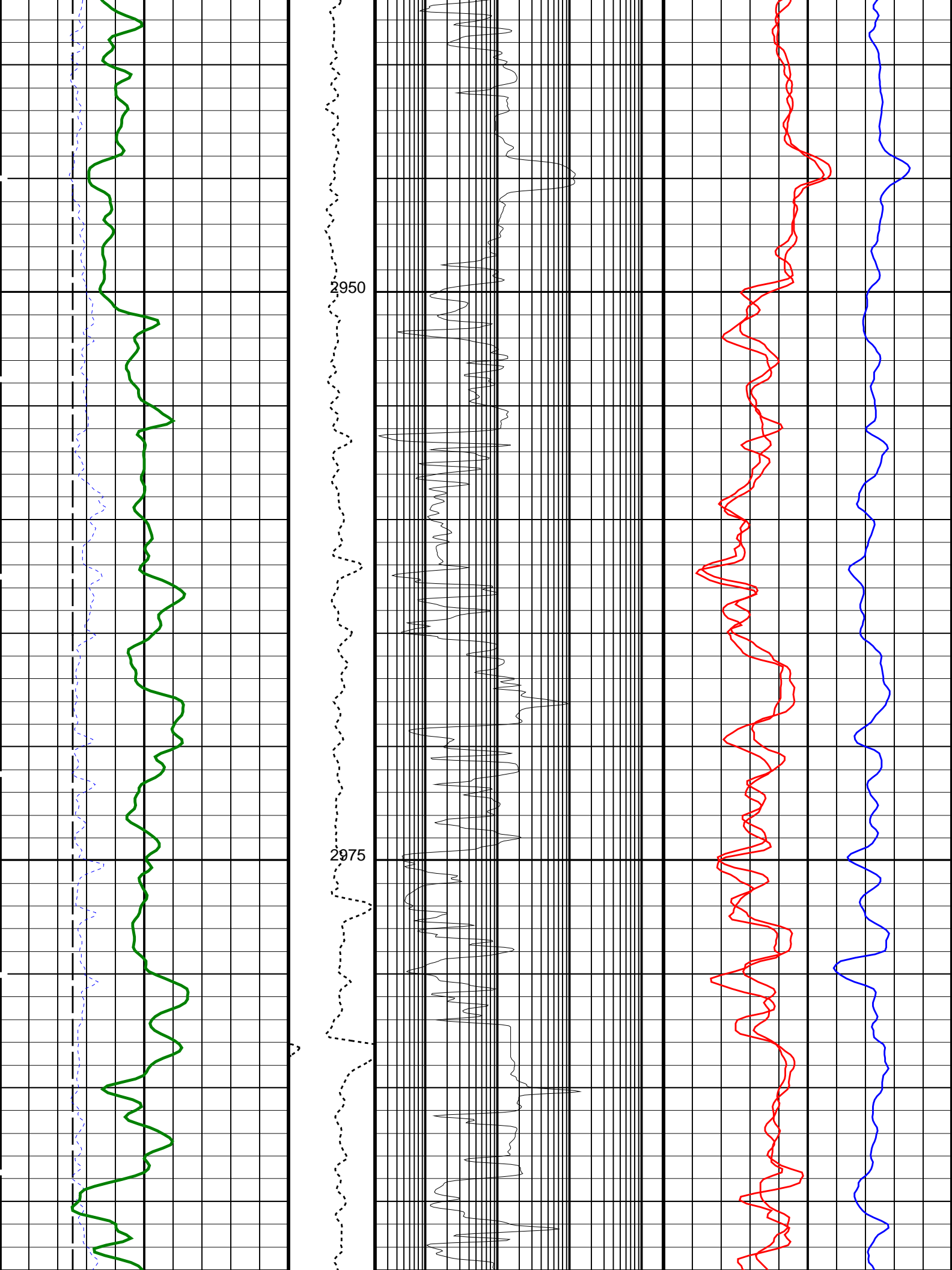




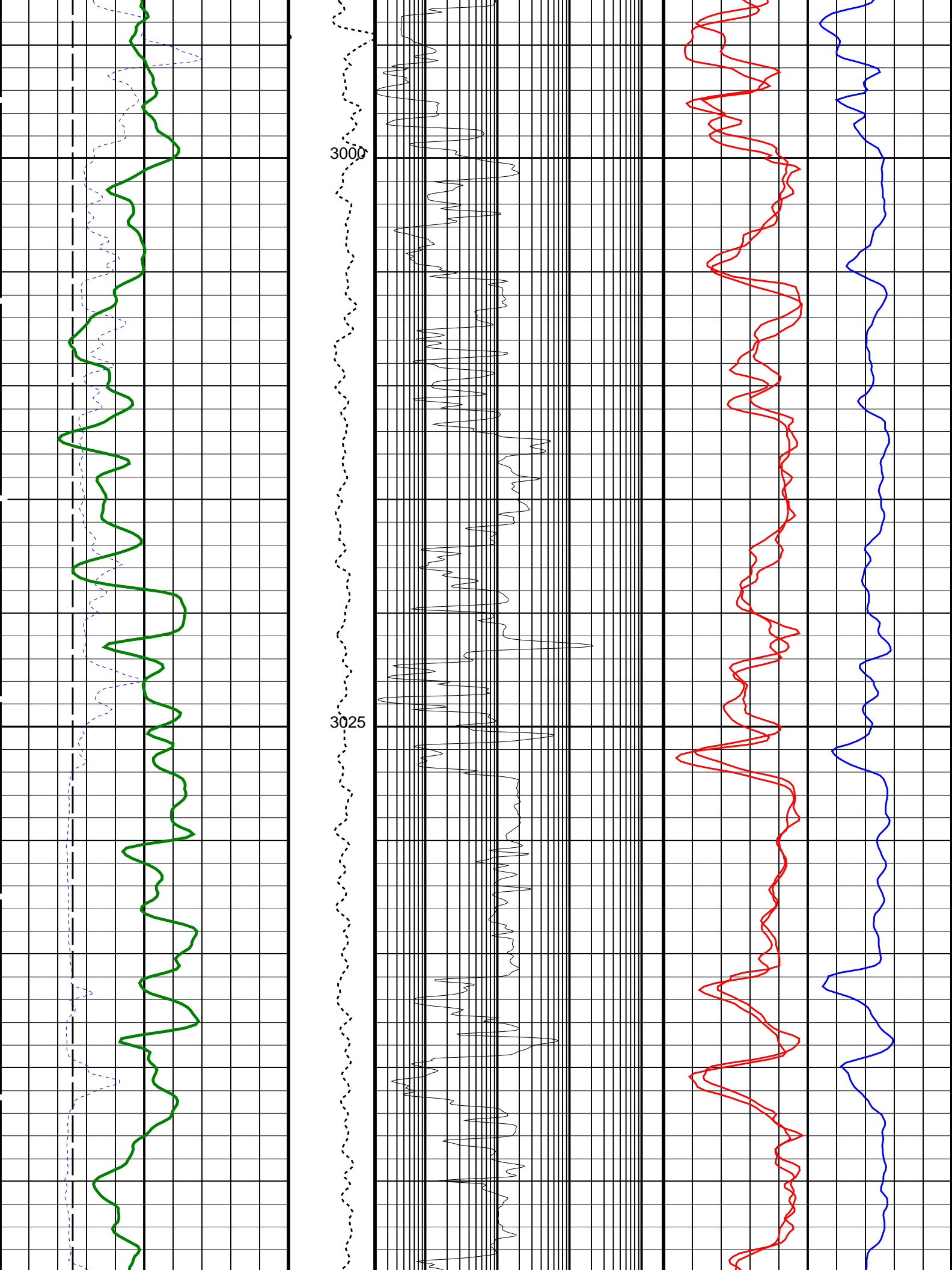


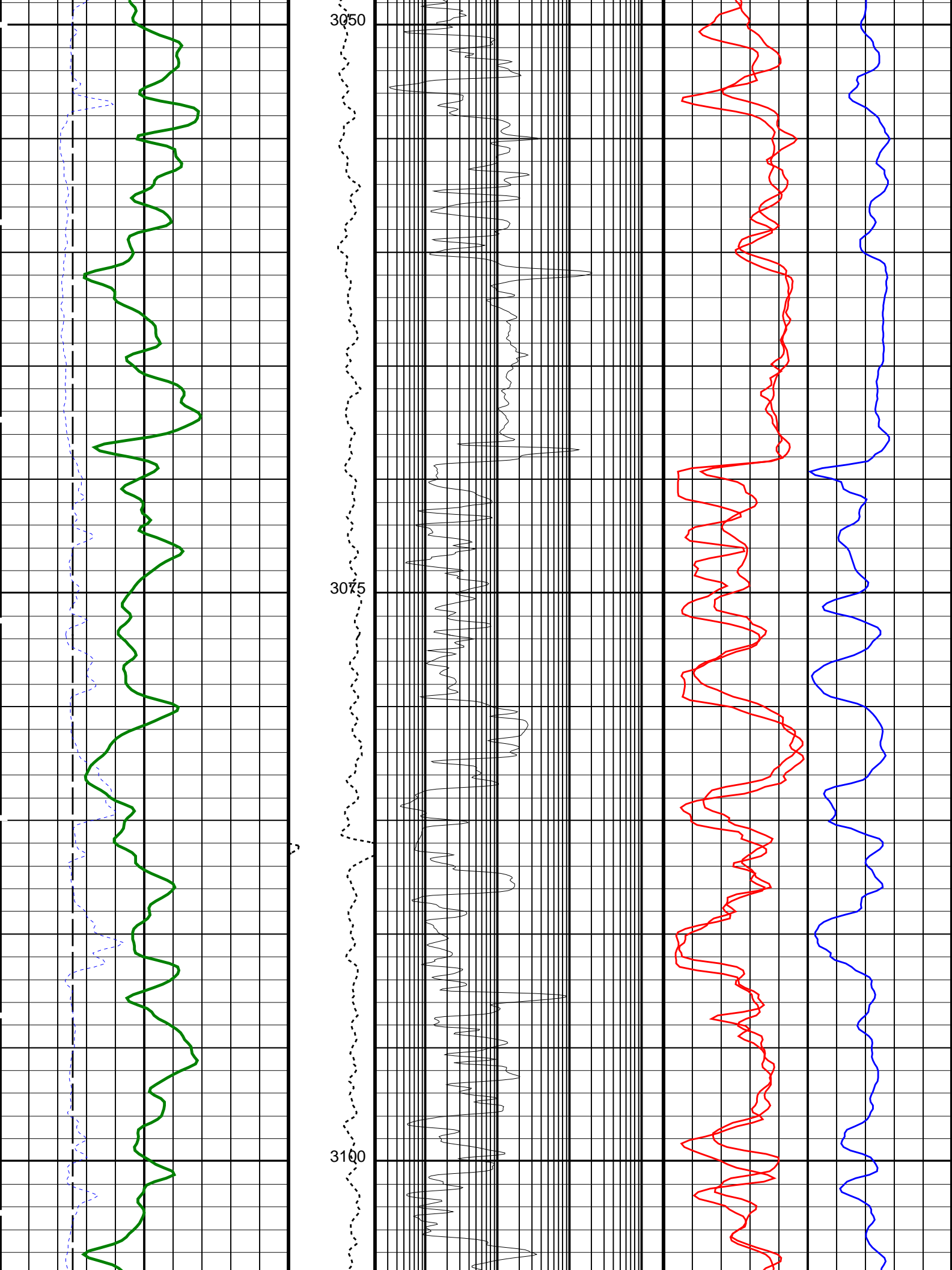


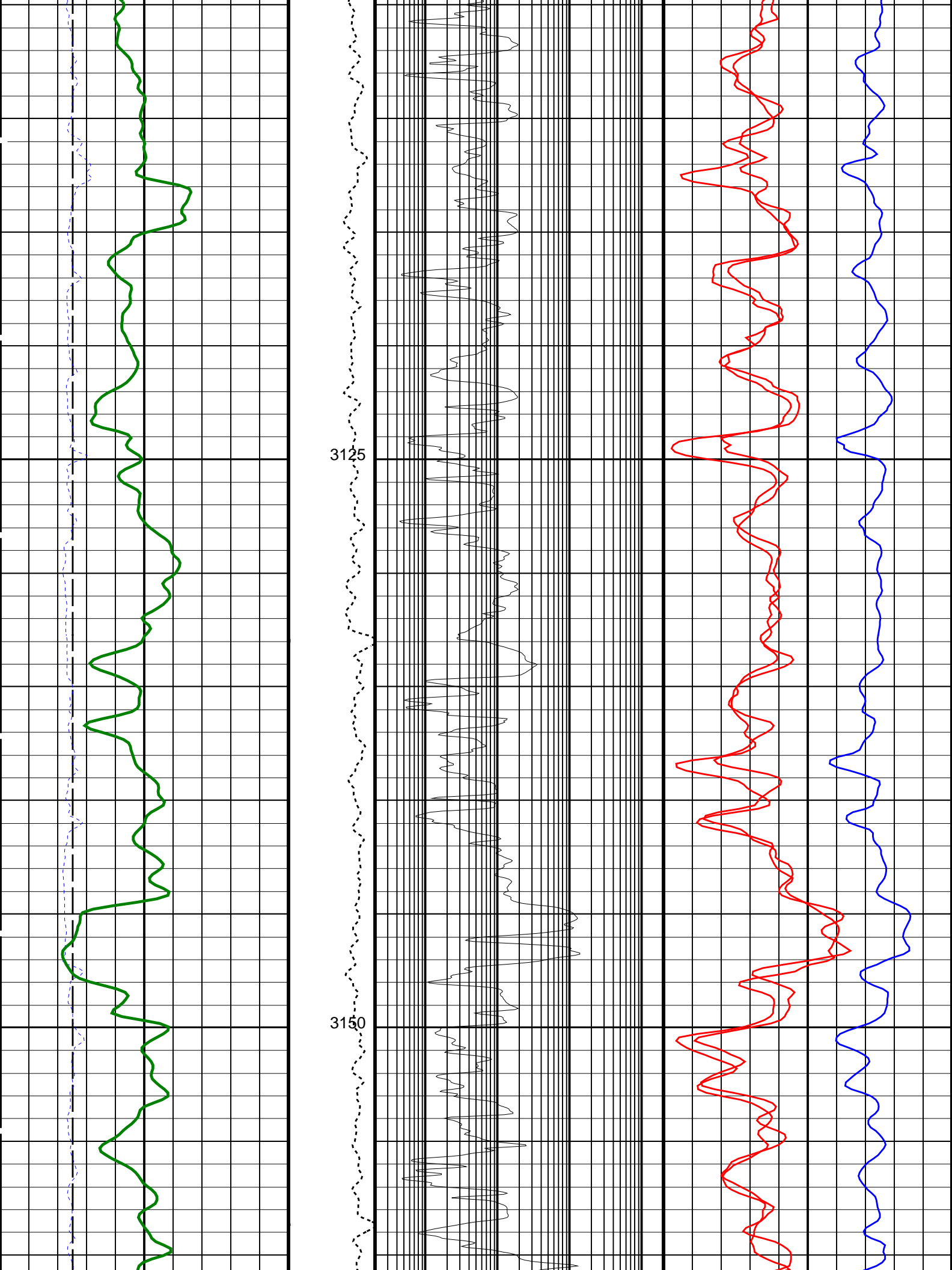


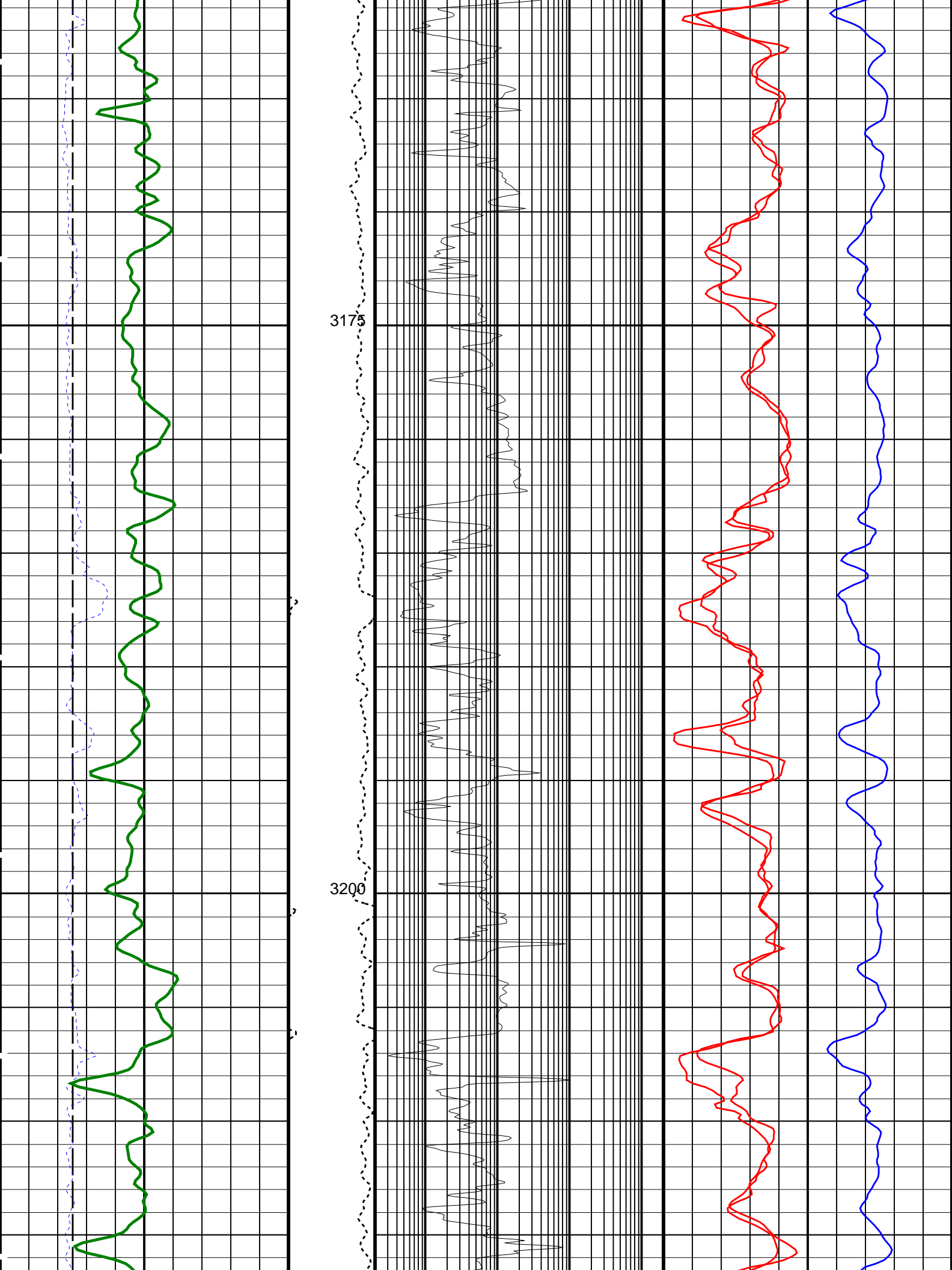


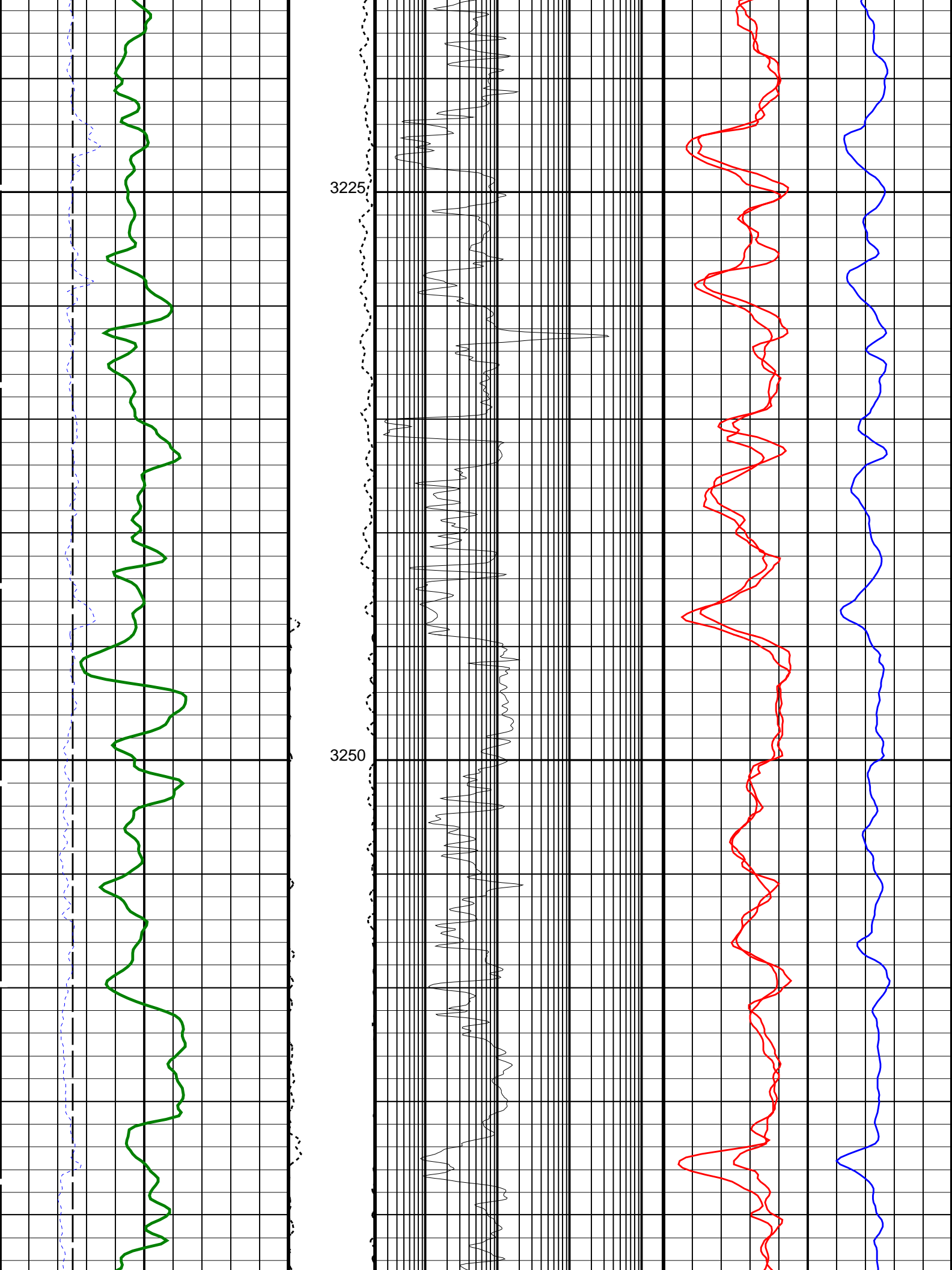


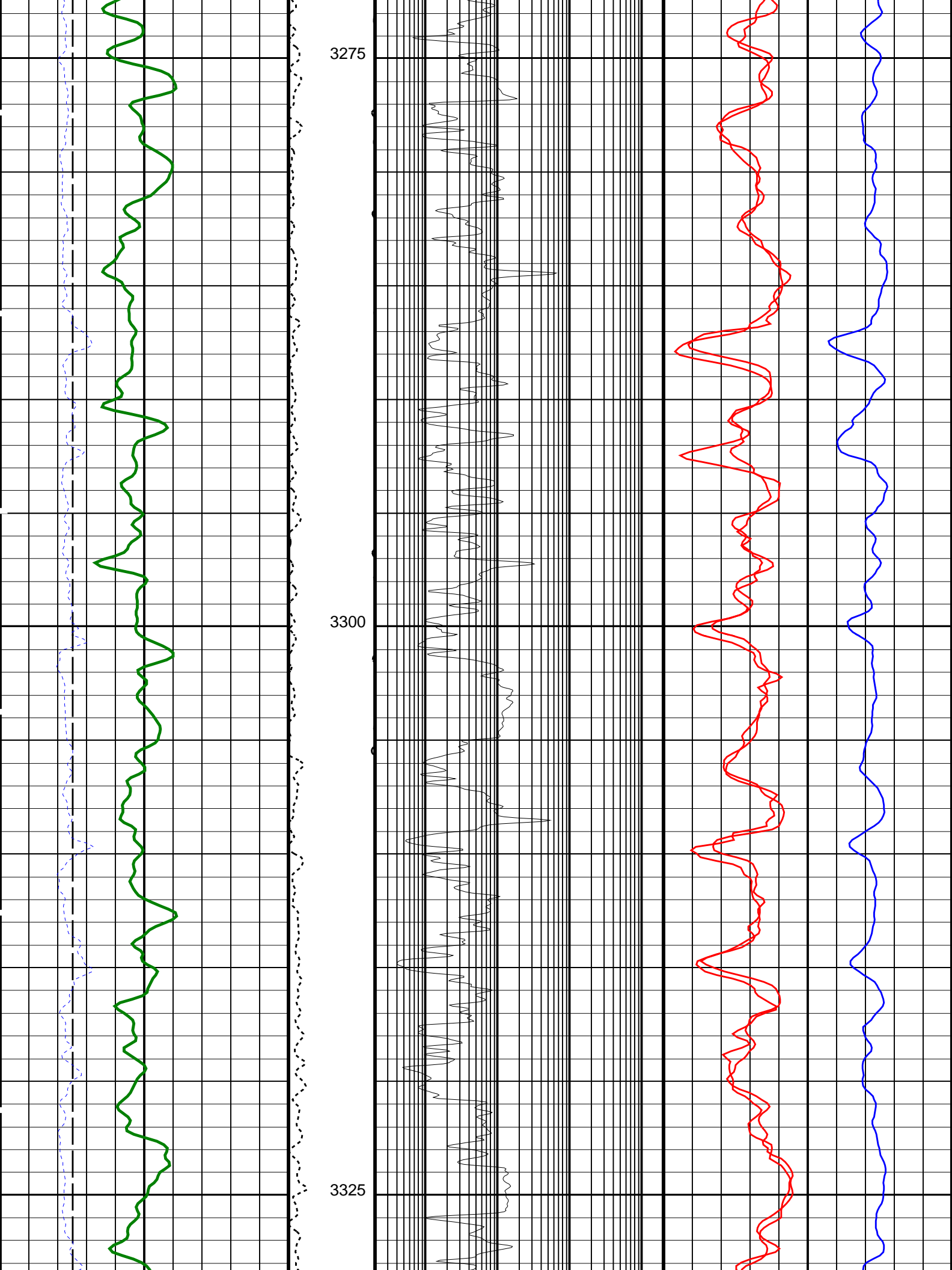


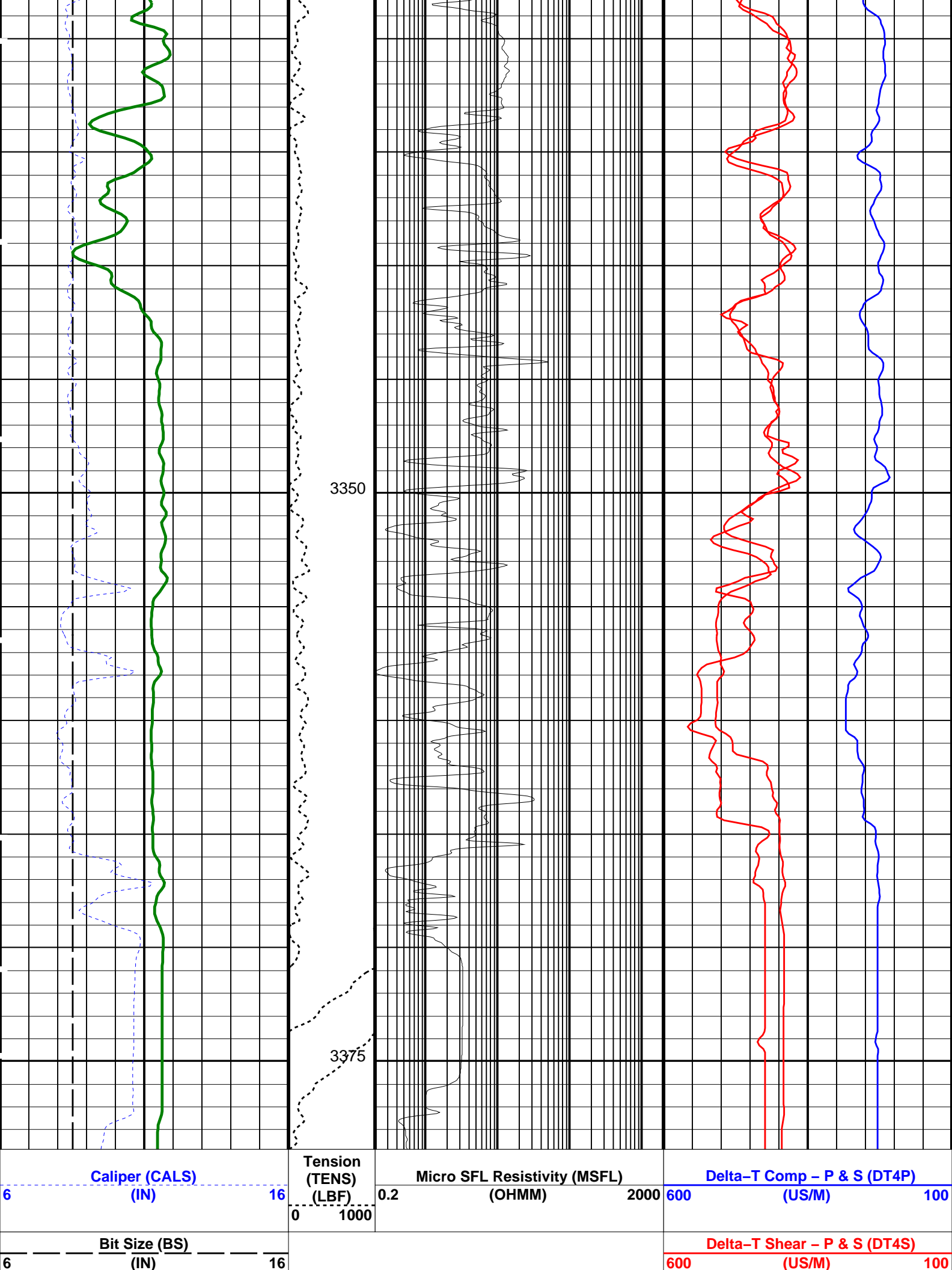












HNGS Spectroscopy Gamma Ray (HSGR)		Delta-T Shear – Upper Dipole (DT2)	
0	(GAPI)	200	600 (US/M) 100

# PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value	
SRT–C: Spherical Resistivity – C			
OMR	Origin of Mud Resistivity	CONS	
RMUD	Resistivity of Mud Sample	0.1025	OHMM
SPT	SRT Pad Type	STANDARD	
DSST–B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALS	
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
SAS2	STC Sonic Array Status – Upper Dipole	255	
SFM2	STC Filter – Upper Dipole	B1–3K	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	0.973016	
BAR2	HNGS Detector 2 Barite Constant	0.987761	
BHK	HNGS Borehole Potassium Correction Concentration	0.0319826	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	USER	
GCSE	Generalized Caliper Selection	CALS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.0319826	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	USER	
HMWM	Mud Weighting Material	BARI	
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	0.973016	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.987761	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along–hole depth of Tie–in Point	39.2	M
TIVD	TVD of Tie–in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALS	
System and Miscellaneous			
BS	Bit Size	8.500	IN
DFD	Drilling Fluid Density	10.30	LB/G
DO	Depth Offset for Playback	2.5	M
PP	Playback Processing	RECOMPUTE	

Format: MSFL Vertical Scale: 1:200

Graphics File Created: 06–Feb–2005 20:57

## OP System Version: 13C0–300

MCM

SRT–C	13C0–300	DTA–A	13C0–300
DSST–B	13C0–300	HNGC–B	13C0–300
HNGS–BA	13C0–300	DTC–H	13C0–300

## Input DLIS Files

DEFAULT MSFL\_DSI\_NGS\_038LUP FN:42 PRODUCER 06–Feb–2005 18:44 3376.4 M 2435.0 M

Output DLIS Files



Output DLIS Files

DEFAULT	MSFL_DSI_NGS_039PUP	FN:44	PRODUCER	06-Feb-2005 20:57
RTBU	MSFL_DSI_NGS_039PUP	FN:45	PRODUCER	06-Feb-2005 20:58

Schlumberger

STC  
1:200

MAXIS Field Log

Company: ESSO Australia Pty Ltd

Well: West Moonfish-1

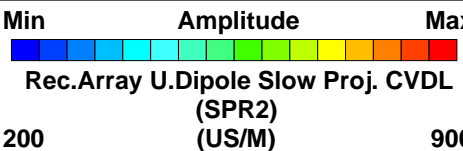
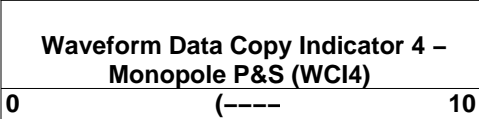
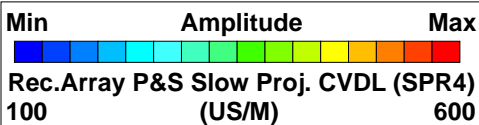
Input DLIS Files						
DEFAULT	MSFL_DSI_NGS_038LUP	FN:42	PRODUCER	06-Feb-2005 18:44	3376.4 M	2435.0 M
Output DLIS Files						
DEFAULT	MSFL_DSI_NGS_039PUP	FN:44	PRODUCER	06-Feb-2005 20:57	3378.9 M	2443.9 M
RTBU	MSFL_DSI_NGS_039PUP	FN:45	PRODUCER	06-Feb-2005 20:58	3378.9 M	2443.9 M

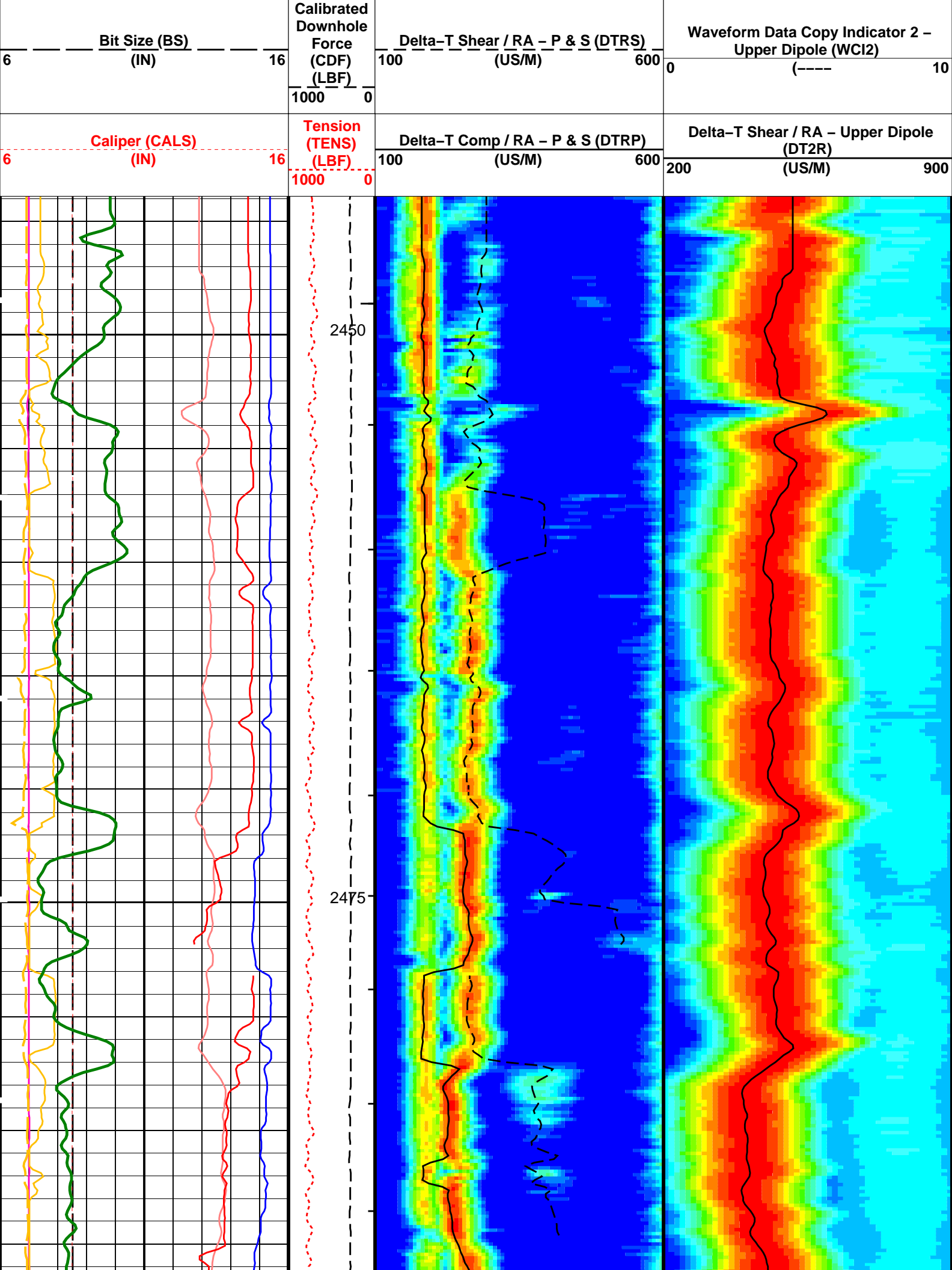
OP System Version: 13C0-300						
MCM						
SRT-C	13C0-300		DTA-A	13C0-300		
DSST-B	13C0-300		HNGC-B	13C0-300		
HNGS-BA	13C0-300		DTC-H	13C0-300		

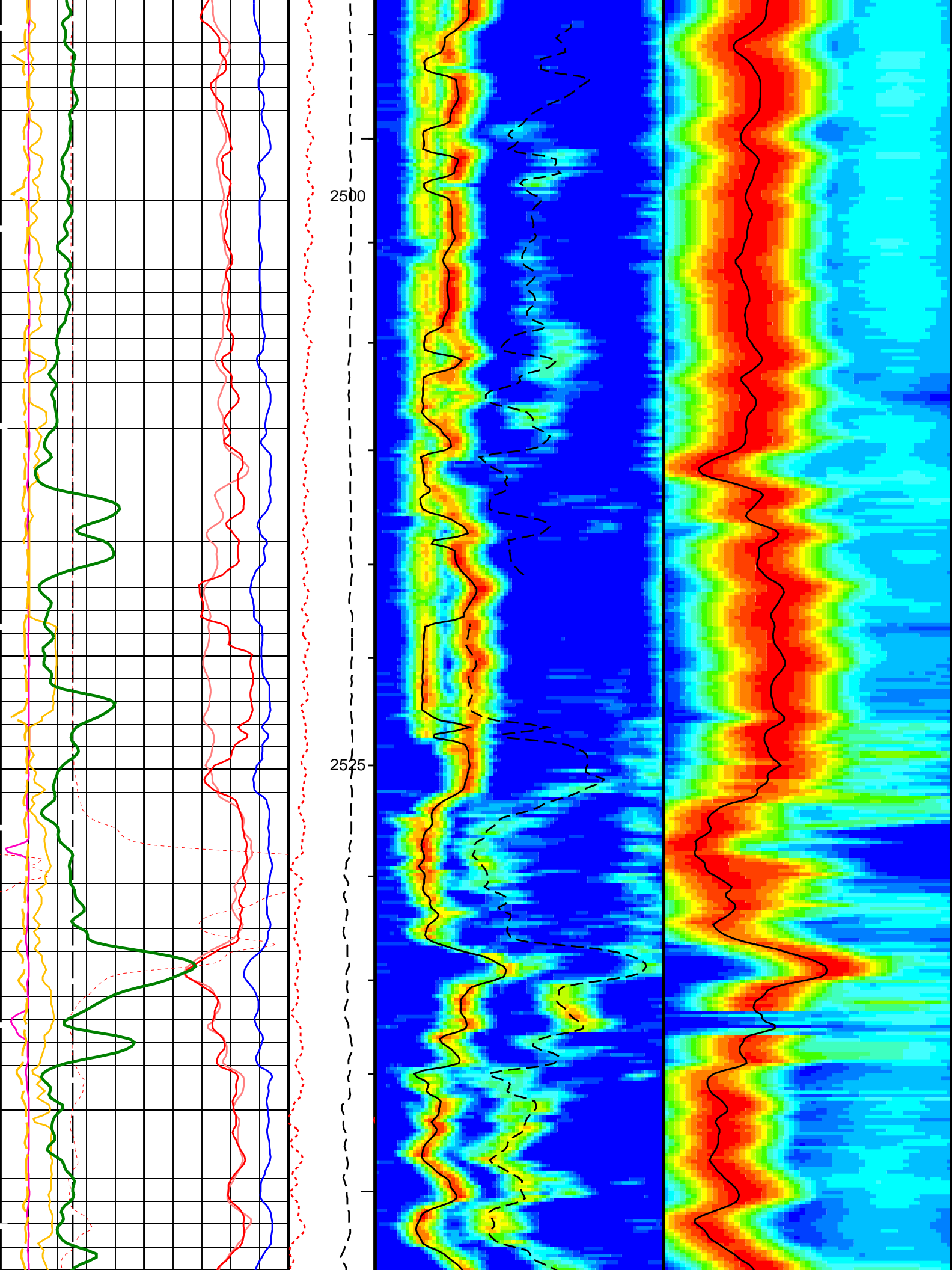
PIP SUMMARY	
<div></div>	→ Integrated Transit Time Minor Pip Every 1 MS
<div></div>	→ Integrated Transit Time Major Pip Every 10 MS

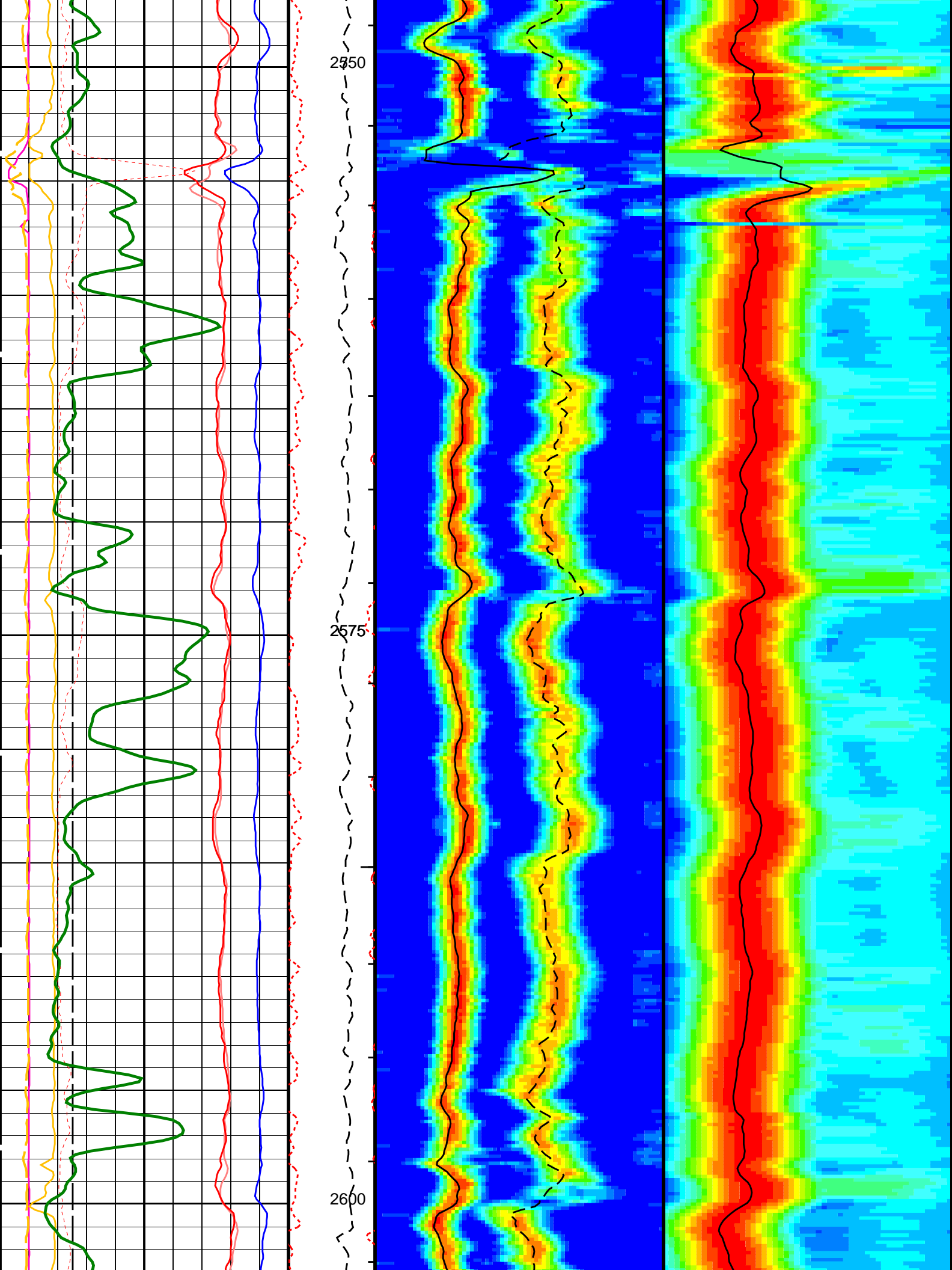
Time Mark Every 60 S

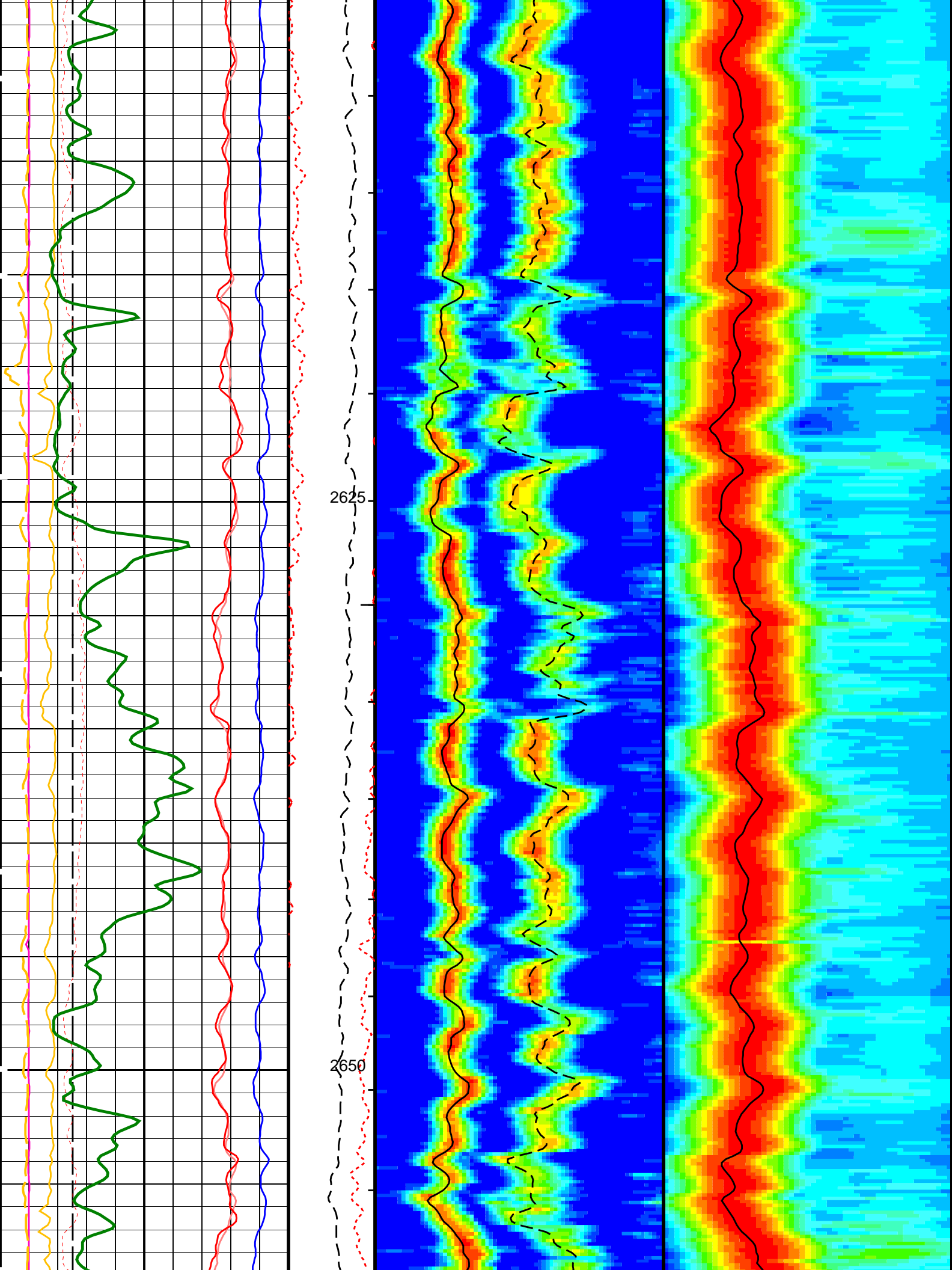
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	200
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----	9
Peak Coherence / RA - Upper Dipole (CHR2)		
0	(----	10
Delta-T Shear - P & S (DT4S)		
1400	(US/M)	100
Delta-T Comp - P & S (DT4P)		
1400	(US/M)	100
Delta-T Shear - Upper Dipole (DT2)		
1400	(US/M)	100

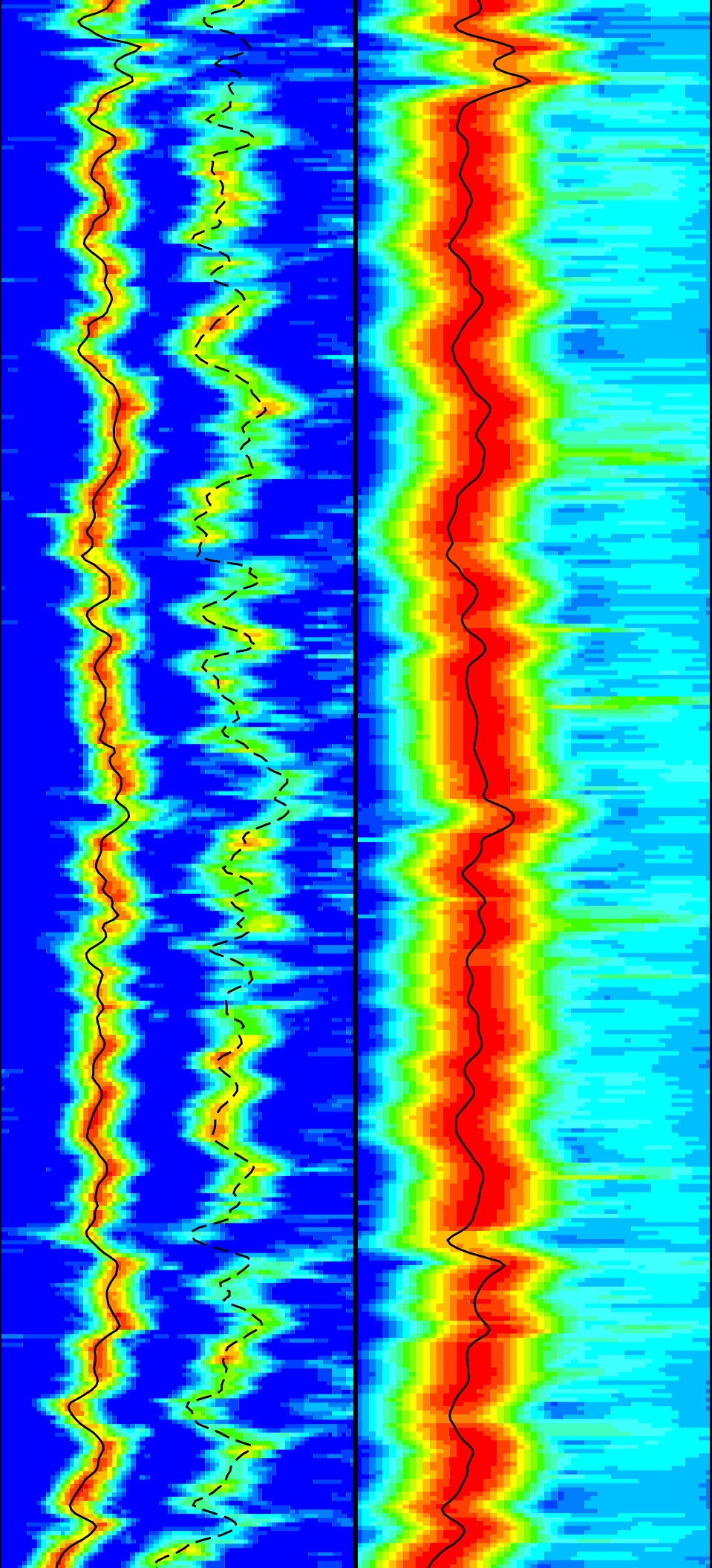
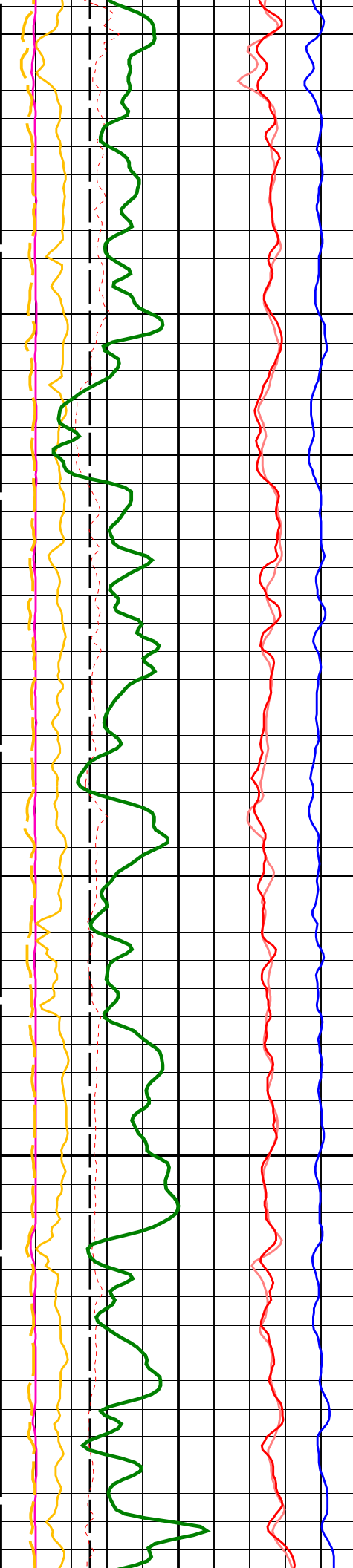


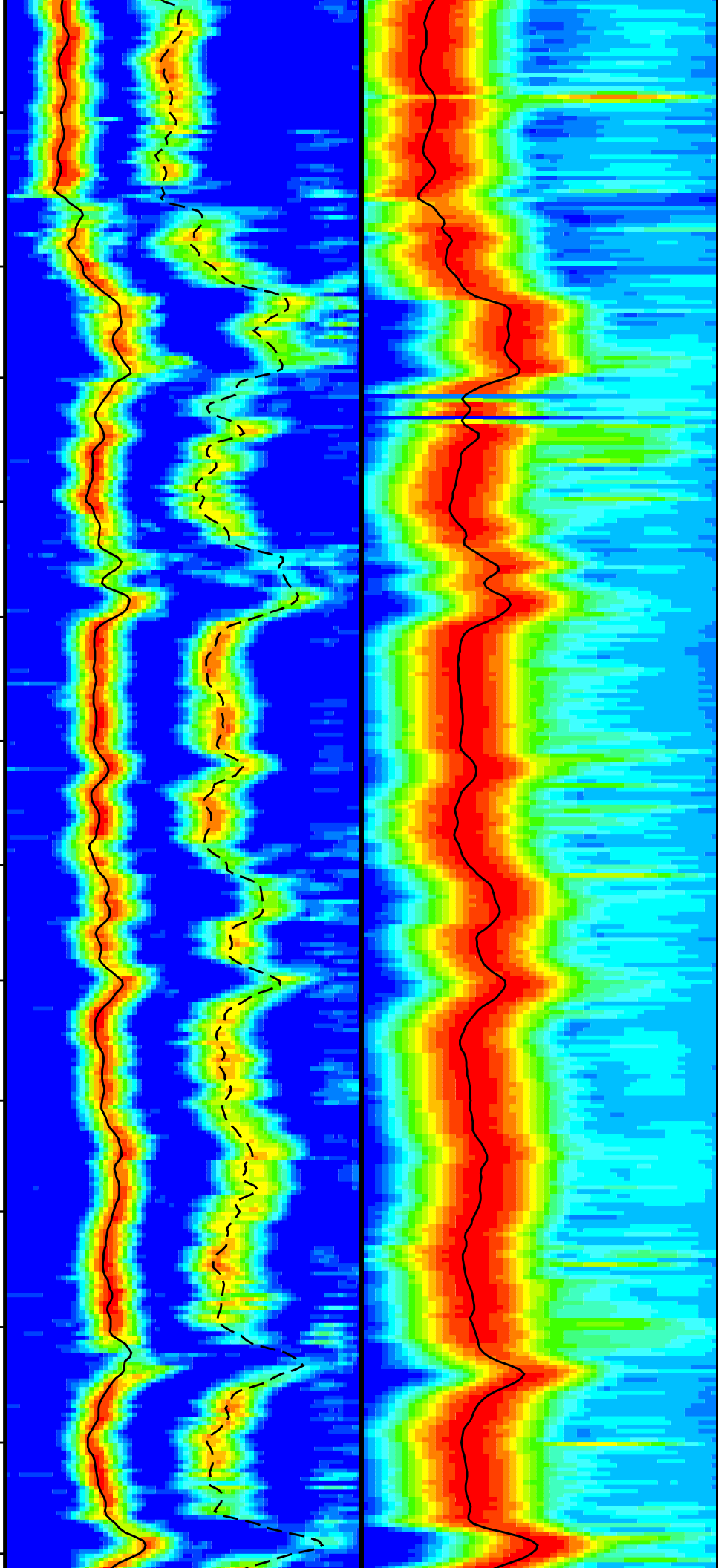
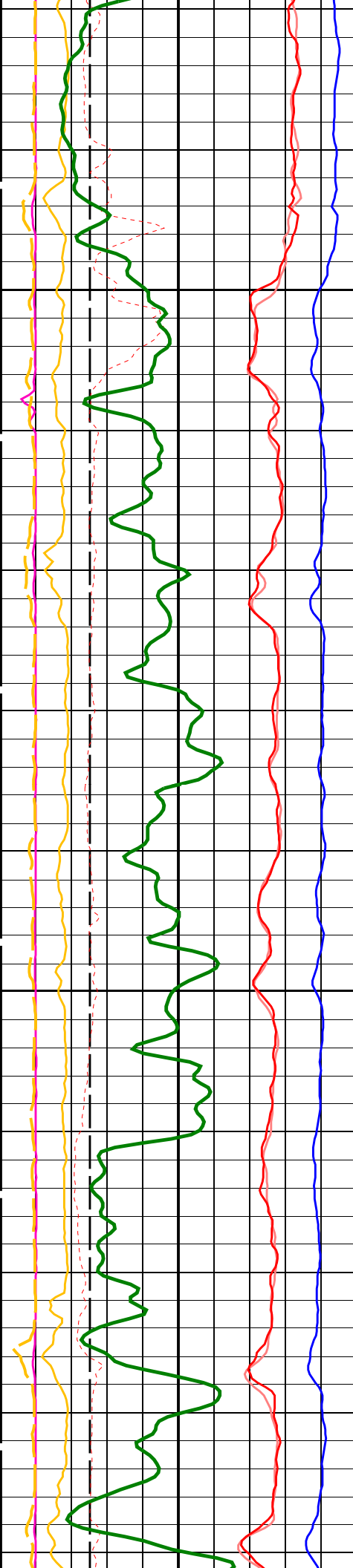




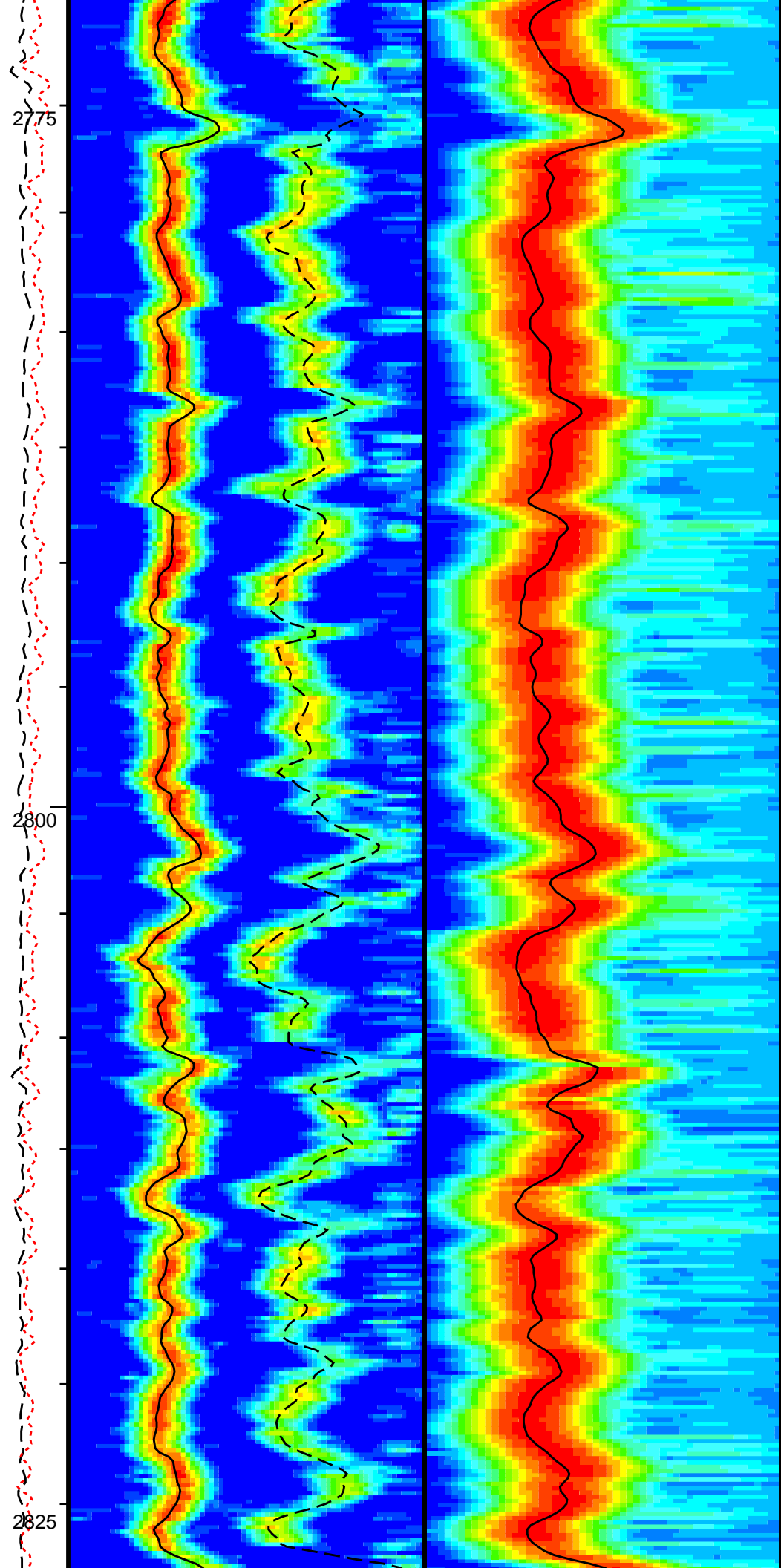
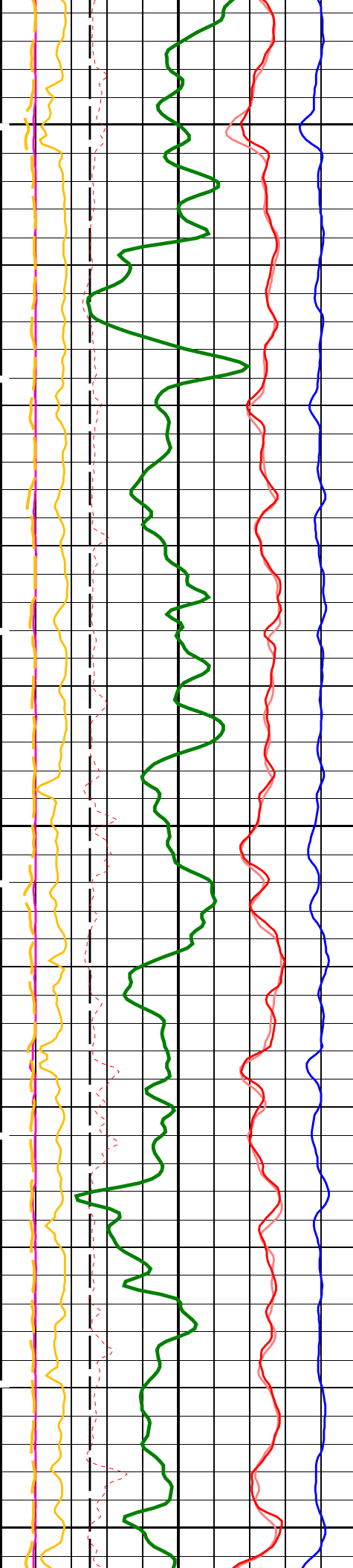




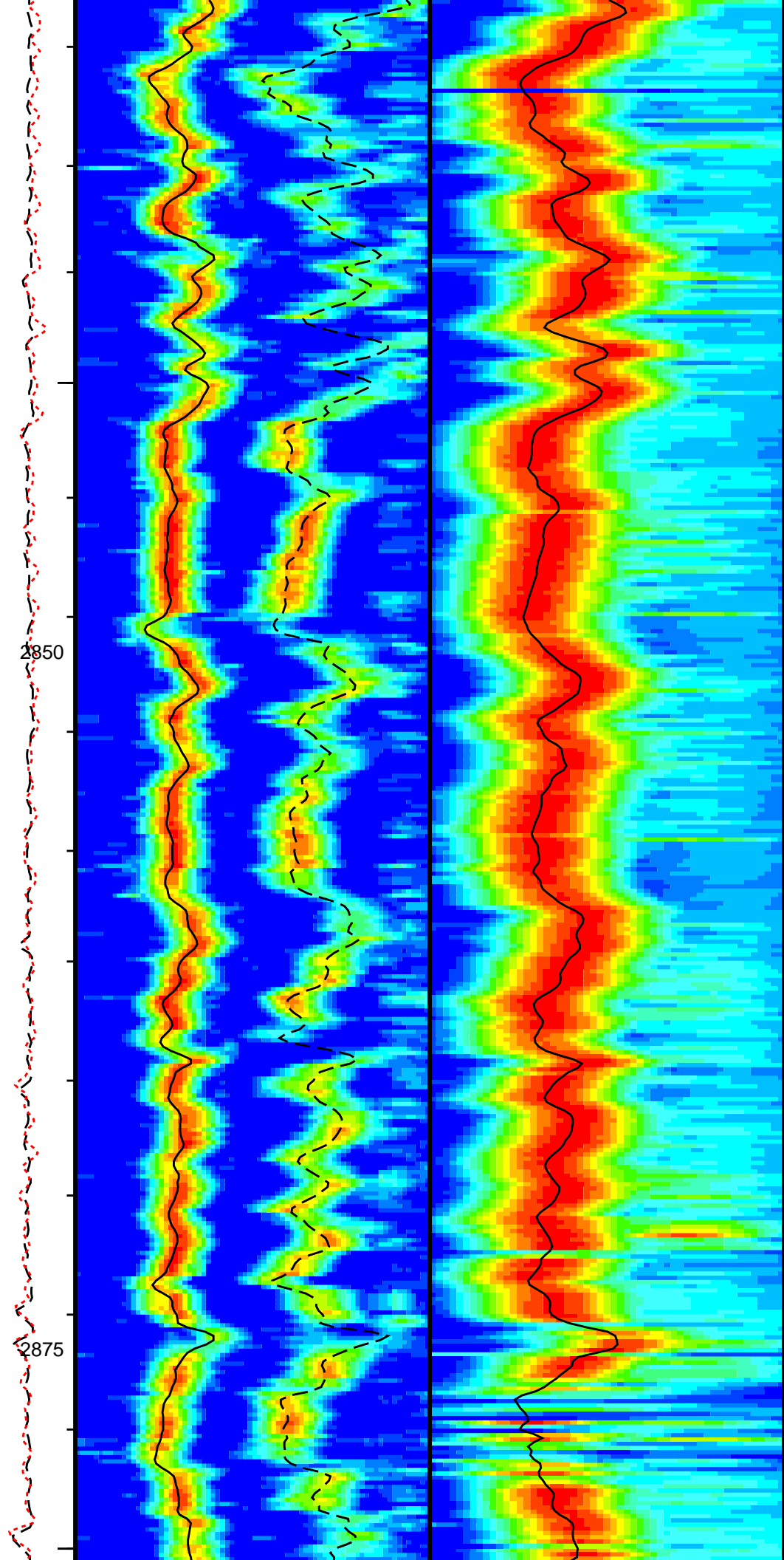
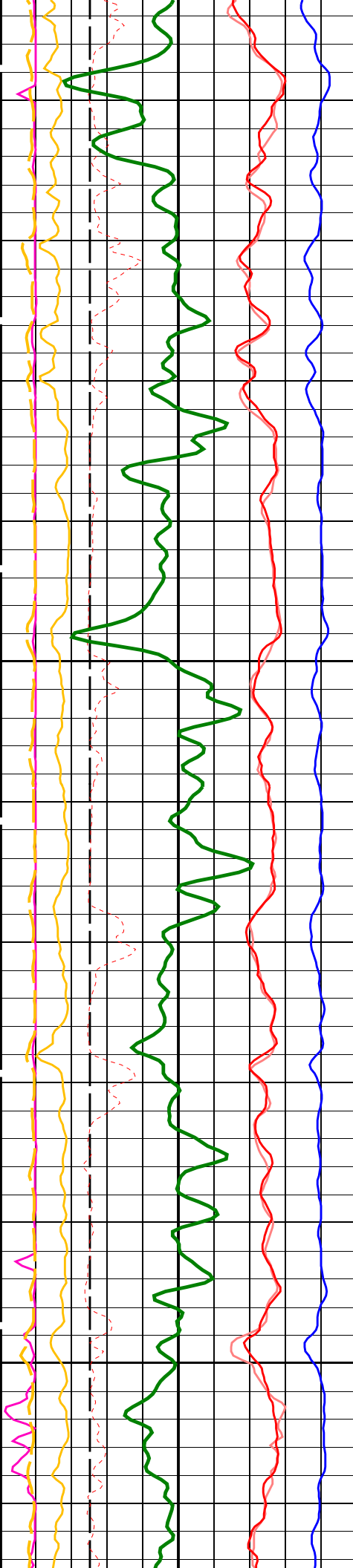


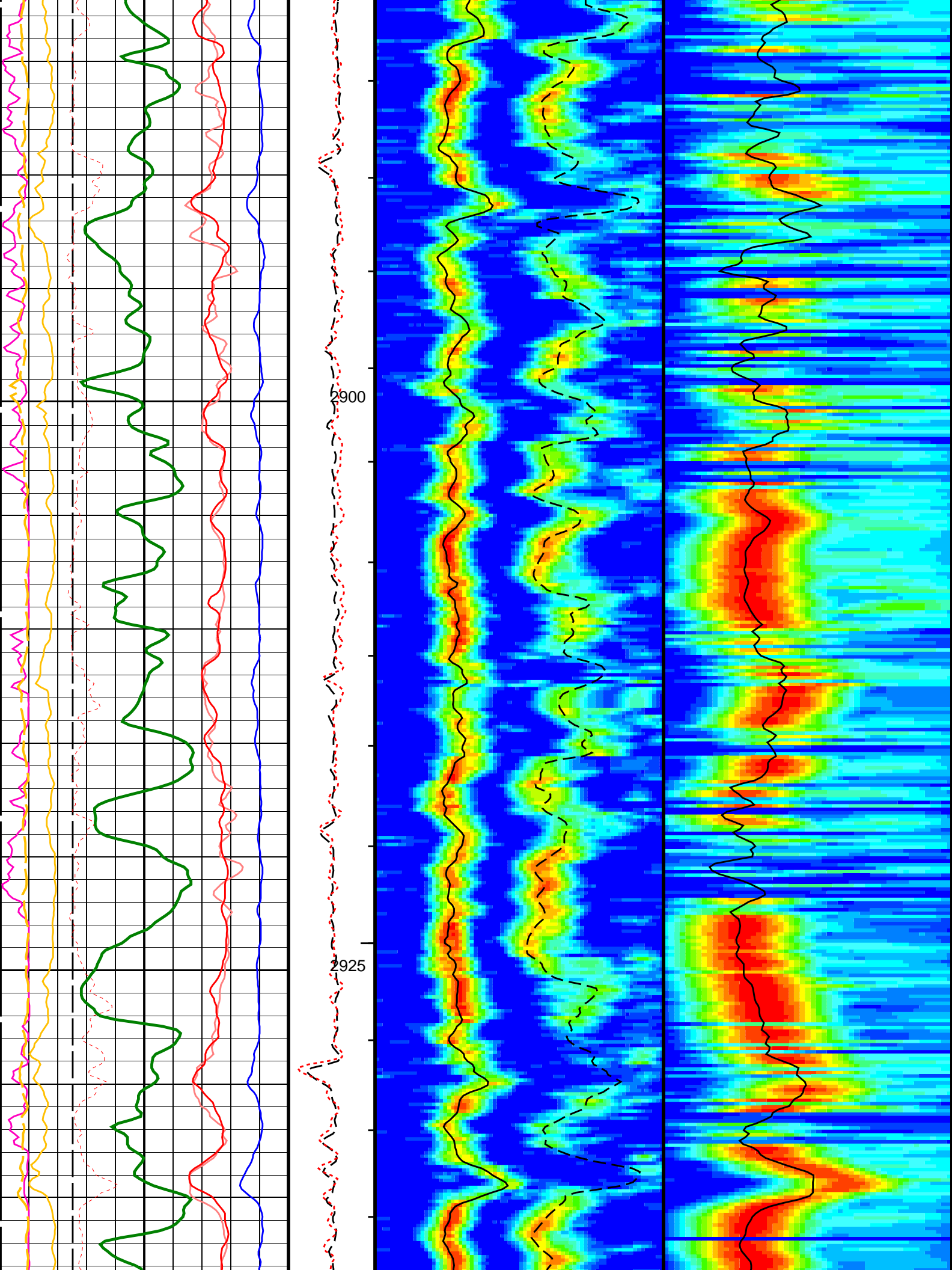


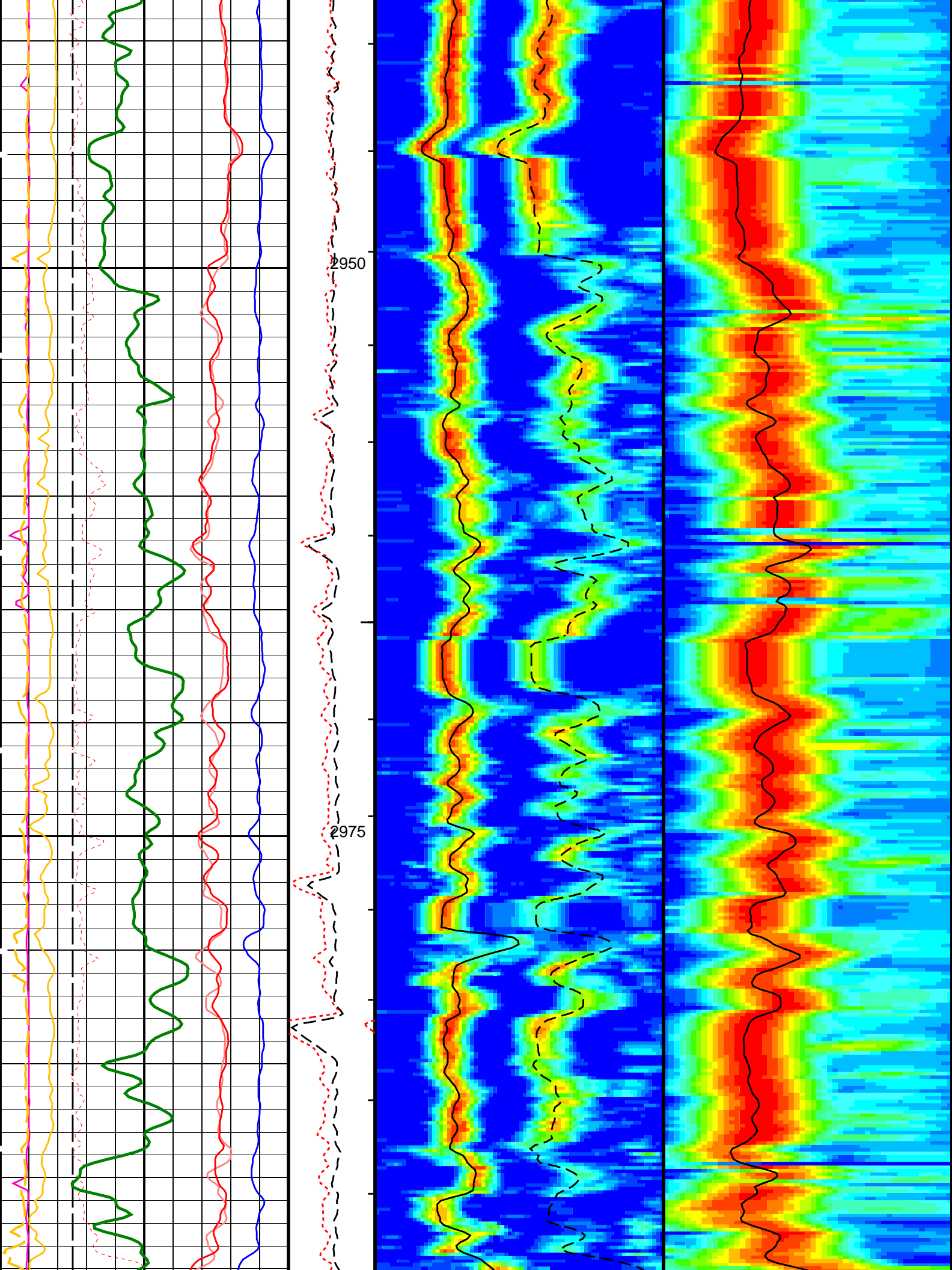


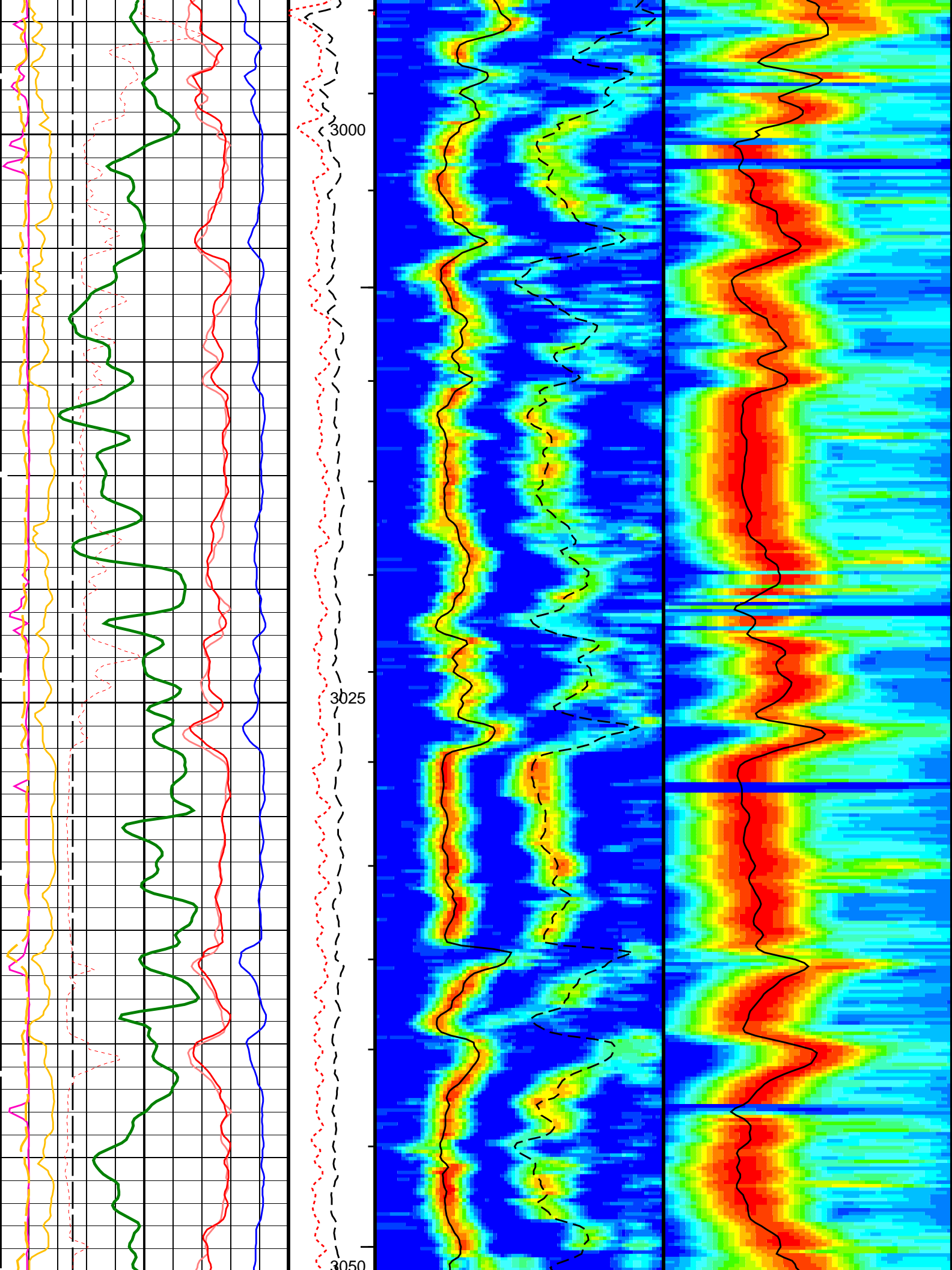


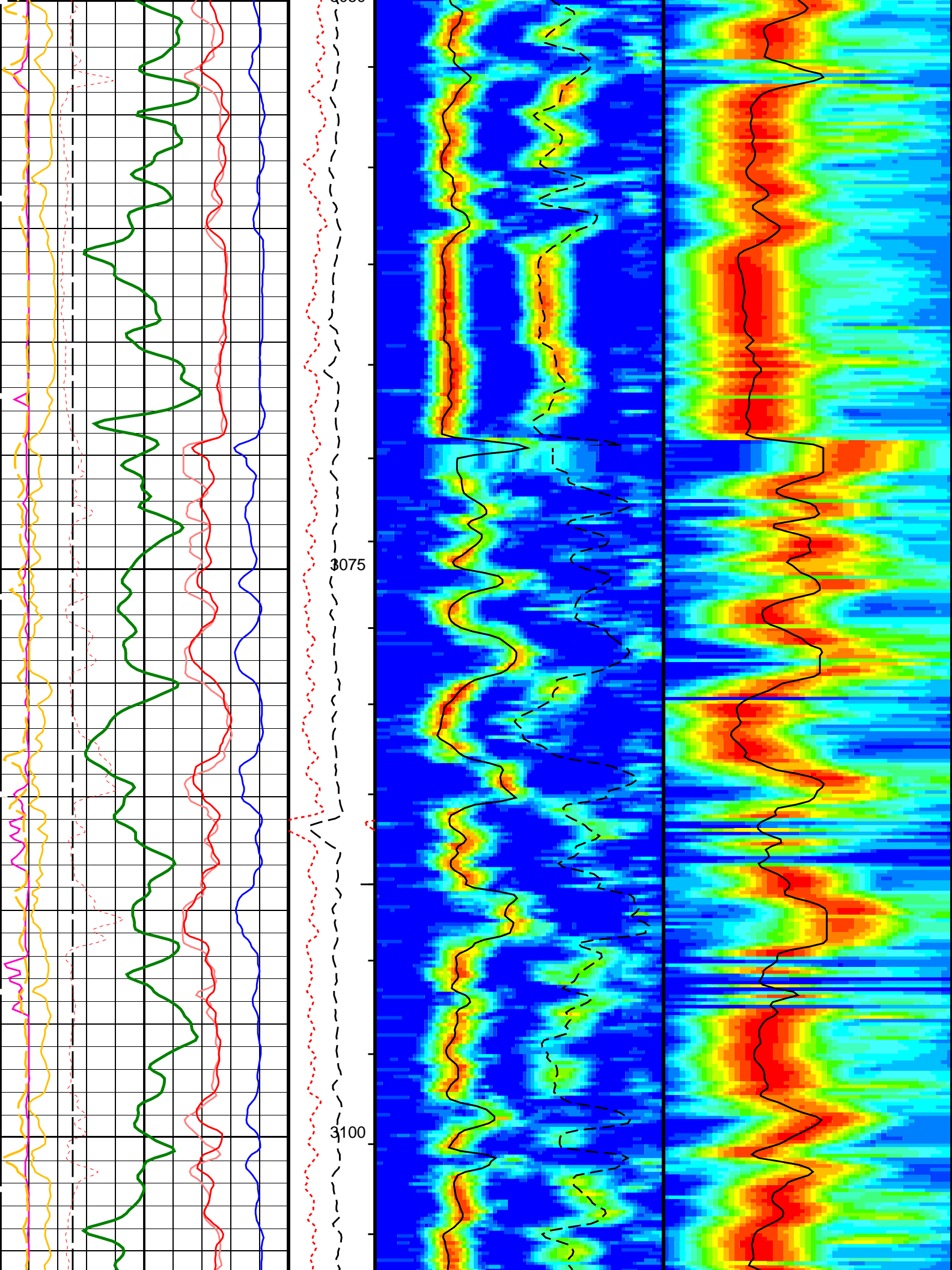


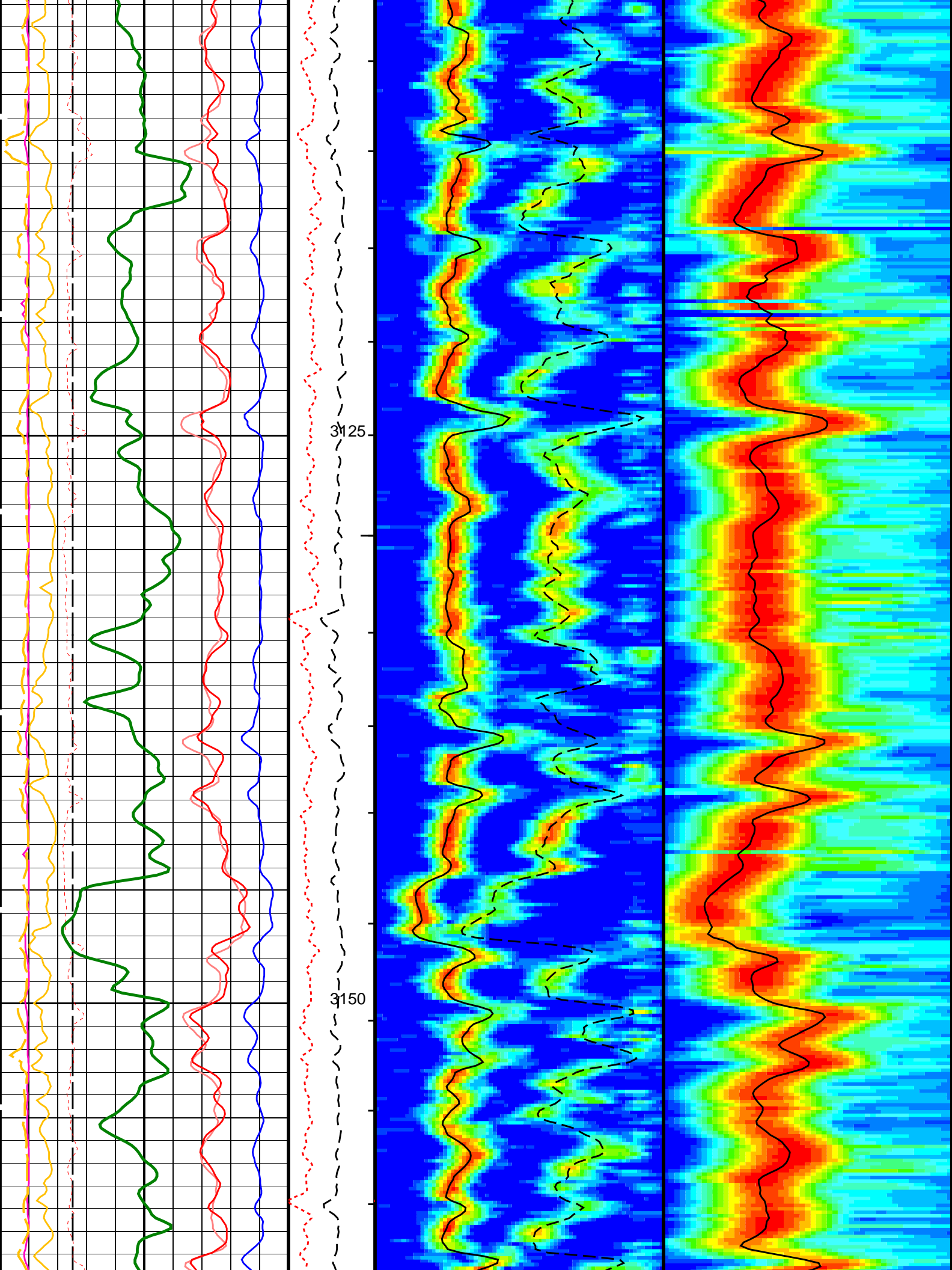




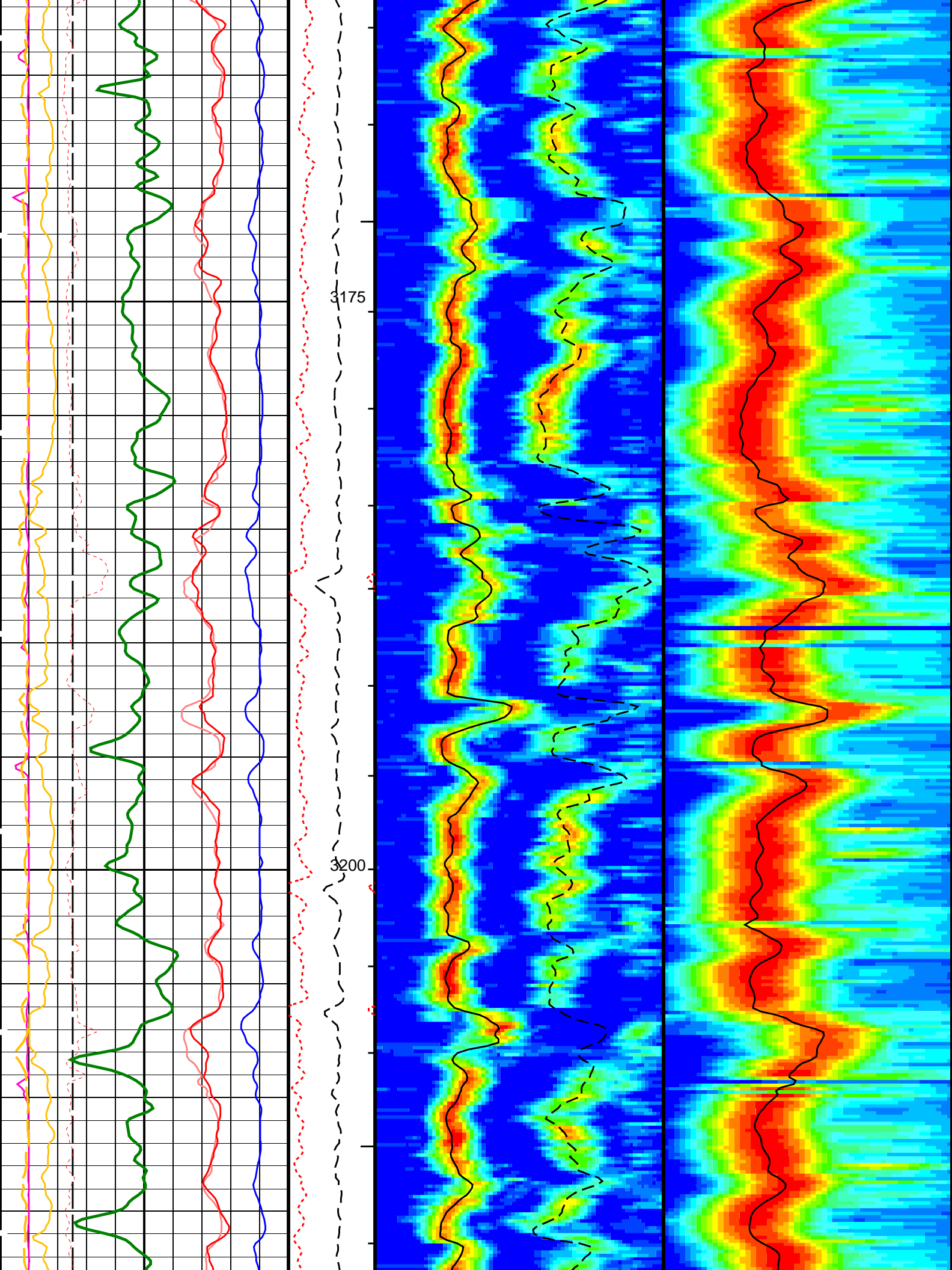


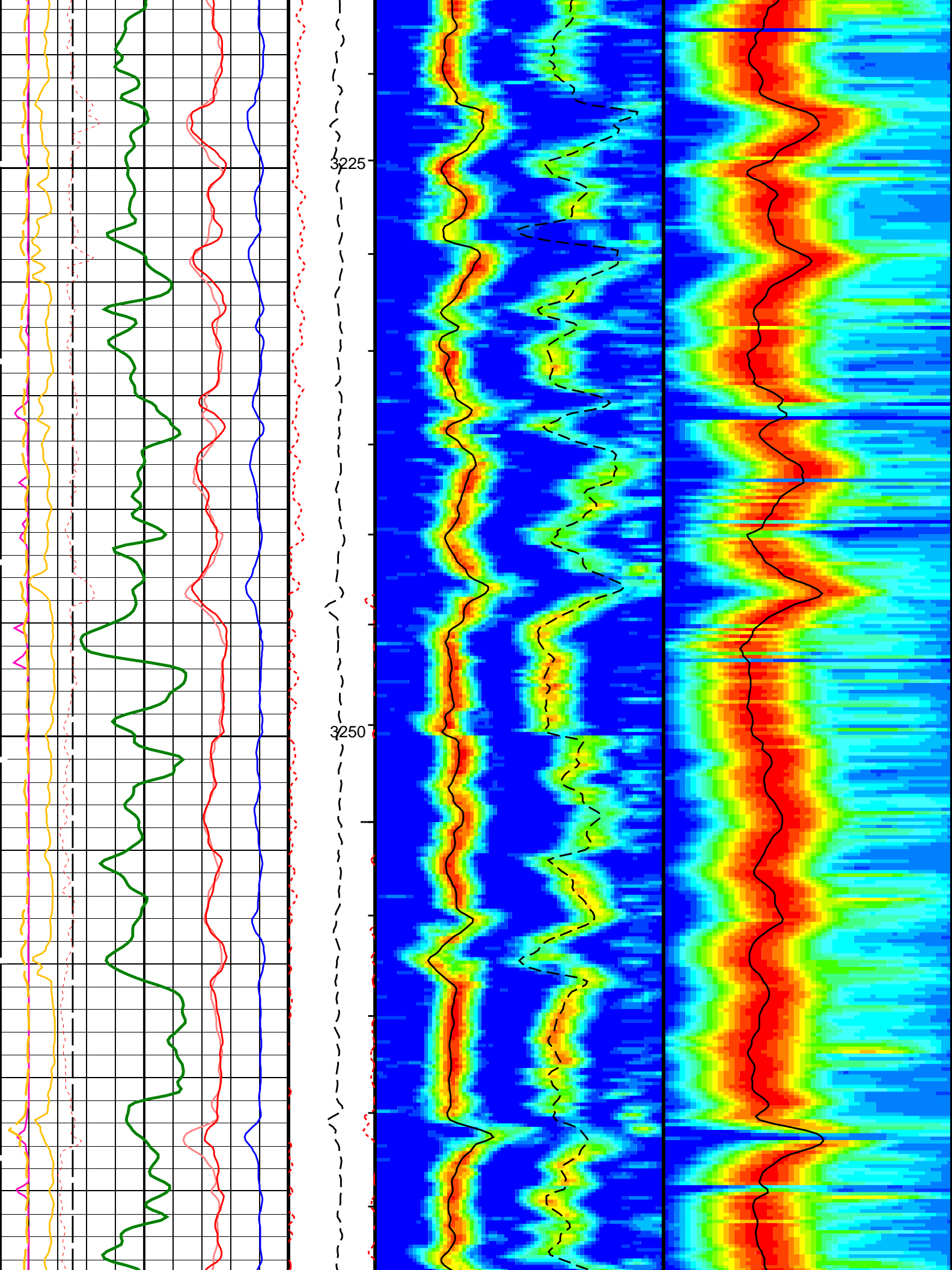




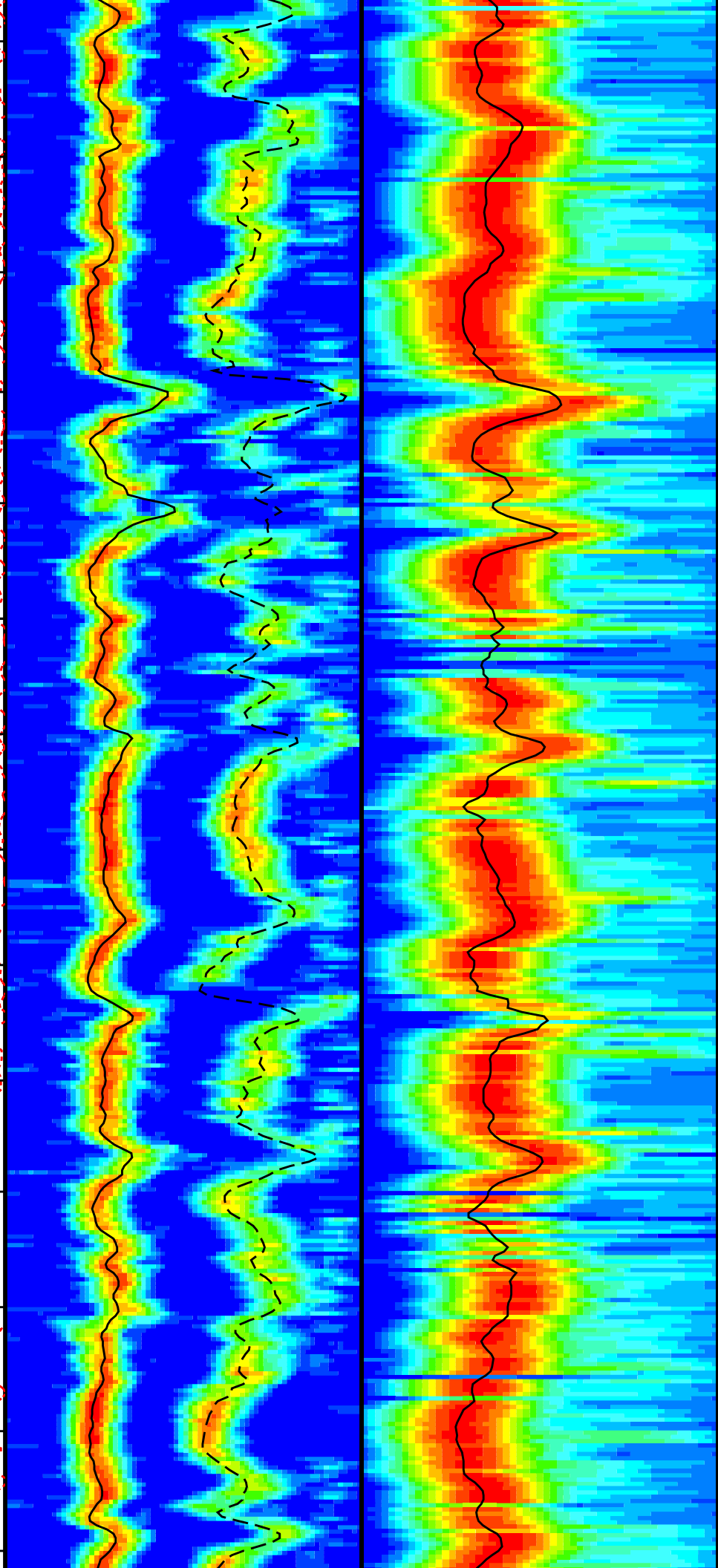
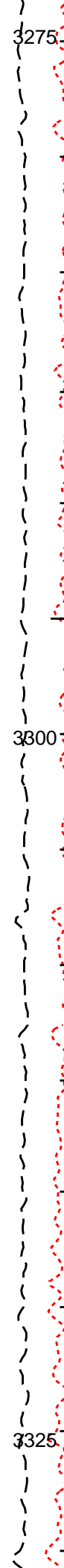
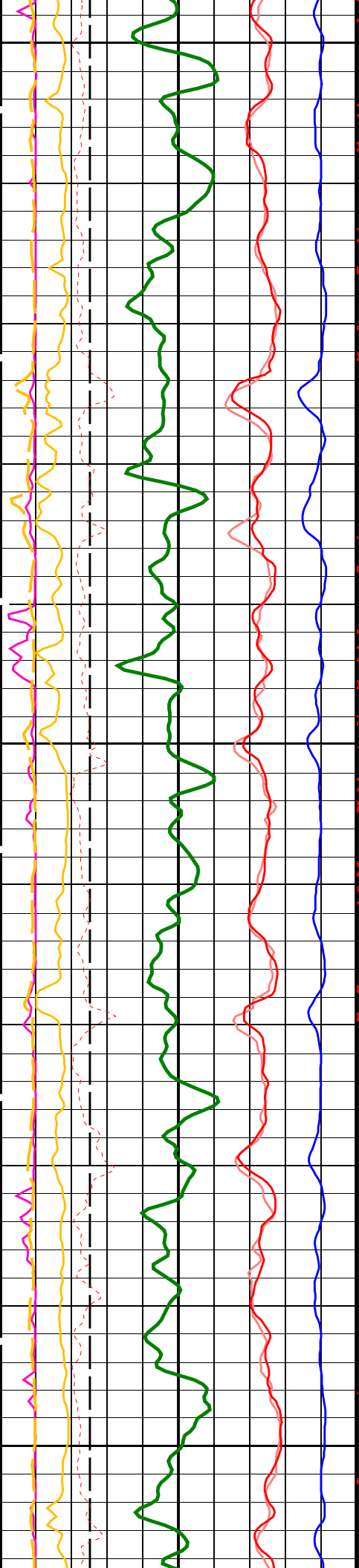


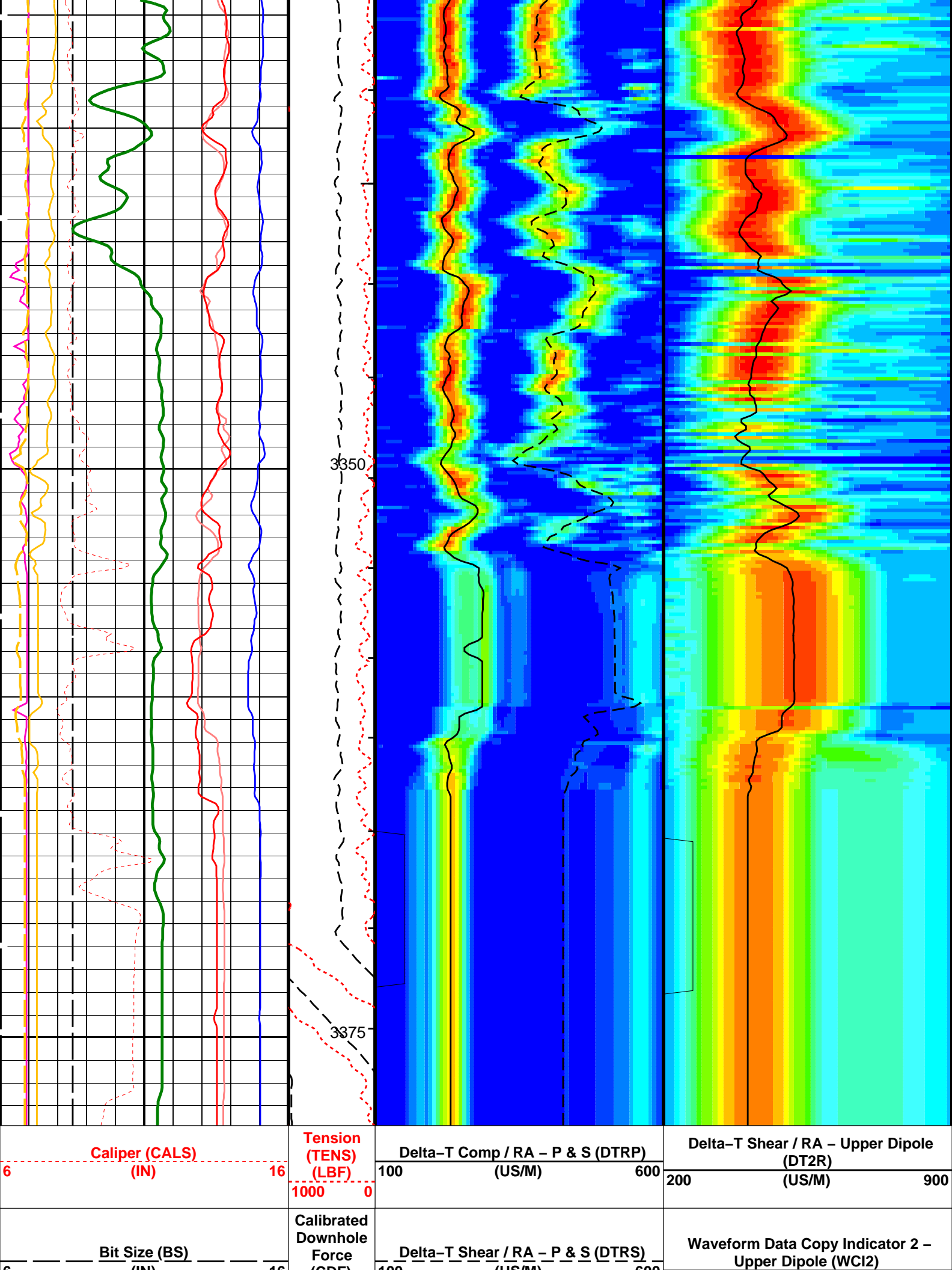












(IN)	(CDF) (LBF)	1000	0	100	(US/M)	600	0	(----	10
Delta-T Shear – Upper Dipole (DT2)				Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)				Min Amplitude Max	
1400	(US/M)	100		0	(----	10		Rec.Array U.Dipole Slow Proj. CVDL (SPR2)	
							200	(US/M)	900
Delta-T Comp – P & S (DT4P)				Min Amplitude Max				Rec.Array P&S Slow Proj. CVDL (SPR4)	
1400	(US/M)	100		100	(US/M)	600			
Delta-T Shear – P & S (DT4S)									
1400	(US/M)	100							
Peak Coherence / RA – Upper Dipole (CHR2)									
0	(----	10							
Peak Coherence / RA – P & S Shear (CHRS)									
-1	(----	9							
Peak Coherence / RA – P & S Comp (CHRP)									
0	(----	10							
HNGS Spectroscopy Gamma Ray (HSGR)									
0	(GAPI)	200							

PIP SUMMARY									
└ Integrated Transit Time Minor Pip Every 1 MS									
└ Integrated Transit Time Major Pip Every 10 MS									
Time Mark Every 60 S									

Parameters			
DLIS Name	Description	Value	
SRT-C: Spherical Resistivity – C			
CREF	Current Reference	AUTO	
OMR	Origin of Mud Resistivity	CONS	
RMUD	Resistivity of Mud Sample	0.1025	OHMM
SPT	SRT Pad Type	STANDARD	
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)	130	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	182.88	US/F
DSI1	Digitizer Sample Interval 1	10	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	40	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	512	
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	CALS	
GDEV	Average Angular Deviation of Borehole from Normal	20	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	0.018227	DC/M
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	COMP_FIRST	
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	19.7824	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 Differences Multiplexor Input X	RR	
NTI5	Number Threshold Items 5	0	
NTIX	Number Threshold Items X	0	
NWI1	Number Waveform Items 1	0	
NWI2	Number Waveform Items 2	8	
NWI3	Number Waveform Items 3	0	
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	R7	
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	OFF	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAM3	DSST Sonic Acquisition Mode 3 – Low Frequency Monopole Mode for Stoneley	OFF	
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	ODD	
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	3000	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	8000	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	20	DEGC
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	60	US/F
SLL3	STC Slowness Lower Limit – Monopole Stoneley	180	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	30	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	12	US/F

SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBDB	Tool String Bottom to DSST Bottom	339.5	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	600	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	823.4	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	12000	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	2400	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
WFDTSP1	SAM1 Waveform Delta for Spectrum	0	US/F
WFDTSP2	SAM2 Waveform Delta for Spectrum	0	US/F
WFDTSP3	SAM3 Waveform Delta for Spectrum	0	US/F
WFDTSP4	SAM4 Waveform Delta for Spectrum	0	US/F
WFDTSPX	SAMX Waveform Delta for Spectrum	0	US/F
WFLLSP1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLLSP2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLLSP3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLLSP4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLLSPX	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	
WFULSP1	SAM1 Waveform Upper Limit for Spectrum	20000	US
WFULSP2	SAM2 Waveform Upper Limit for Spectrum	20000	US
WFULSP3	SAM3 Waveform Upper Limit for Spectrum	20000	US
WFULSP4	SAM4 Waveform Upper Limit for Spectrum	5000	US
WFULSPX	SAMX Waveform Upper Limit for Spectrum	20000	US
XMT1	Transmitter Select 1	NONE	
XMT2	Transmitter Select 2	DUP	
XMT3	Transmitter Select 3	MONO	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	DUP	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	0.973016	
BAR2	HNGS Detector 2 Barite Constant	0.987761	
BHK	HNGS Borehole Potassium Correction Concentration	0.0319826	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	130	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	USER	
GCSE	Generalized Caliper Selection	CALS	

GDEV	Average Angular Deviation of Borehole from Normal	20	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.0319826	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	USER	
HMWM	Mud Weighting Material	BARI	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973016	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.987761	
DIR: Directional Survey Computation			
SPED	East Departure of Starting Point	0	M
SPND	North Departure of Starting Point	0	M
SPVD	TVD of Starting Point	0	M
TAZI	Vertical Section Azimuth	0	DEG
TIED	East Departure of Tie-in Point	0	M
TIMD	Along-hole depth of Tie-in Point	39.2	M
TIND	North Departure of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	130	DEGC
FCD	Future Casing (Outer) Diameter	7	IN
GCSE	Generalized Caliper Selection	CALS	
GDEV	Average Angular Deviation of Borehole from Normal	20	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	TrueVerticalDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	60000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	47.00	LB/F
DFD	Drilling Fluid Density	10.30	LB/G
DO	Depth Offset for Playback	2.5	M
MST	Mud Sample Temperature	23.20	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.0766	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	3369	M
TDD	Total Depth - Driller	3369.00	M
TDL	Total Depth - Logger	3369.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: DSST\_P\_S\_UPPER\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 06-Feb-2005 20:57

## OP System Version: 13C0-300

MCM

SRT-C	13C0-300	DTA-A	13C0-300
DSST-B	13C0-300	HNGC-B	13C0-300
HNGS-BA	13C0-300	DTC-H	13C0-300

### Input DLIS Files

DEFAULT	MSFL_DSI_NGS_038LUP	FN:42	PRODUCER	06-Feb-2005 18:44	3376.4 M	2435.0 M
---------	---------------------	-------	----------	-------------------	----------	----------

### Output DLIS Files

DEFAULT	MSFL_DSI_NGS_039PUP	FN:44	PRODUCER	06-Feb-2005 20:57
RTBU	MSFL_DSI_NGS_039PUP	FN:45	PRODUCER	06-Feb-2005 20:58

Well: **West Moonfish-1**  
Field: **West Moonfish**  
Rig: **ENSCO 102**  
Country: **Australia**

DSI-MSFL-HNGS  
Sonic and MSFL Print MAIN PASS  
Scale 1:200 RUSH FIELD PRINT