



Company: **Nalcor Energy Oil and Gas**

Well: **Nalcor et al Seamus 1**

Field: **Parson's Pond**

Rig: **Stoneham #11** Province: **Newfoundland**

Rig: Stoneham #11 Field: Parson's Pond Location: Latitude: 49.98 N Well: Nalcor et al Seamus 1 Company: Nalcor Energy Oil and Gas	DIPOLE SHEAR SONIC IMAGER LOG			
	LOCATION	Latitude: 49.98 N Longitude: 57.70 W		Elev.: K.B. 26.99 m G.L. 20.69 m D.F. 26.69 m
		Permanent Datum: <u>Ground Level</u>		Elev.: <u>20.69 m</u>
		Log Measured From: <u>Kelly Bushing</u>		6.30 m above Perm. Datum
		Drilling Measured From: <u>Kelly Bushing</u>		
API Serial No.		Latitude 49.98 N	Longitude 57.70 W	

Logging Date			15-May-2010					
Run Number			Run 2					
Depth Driller			3160 m					
Schlumberger Depth			3129.2 m					
Bottom Log Interval			3099.2 m					
Top Log Interval			1500 m					
Casing Driller Size @ Depth			244.500 mm @ 2292.4 m			Final Print	@	
Casing Schlumberger			2292.5 m					
Bit Size			216.000 mm					
Type Fluid In Hole			Gel Chem					
MUD	Density	Viscosity	1170 kg/m3	60 s				
	Fluid Loss	PH	7.6 cm3	9.7				
	Source Of Sample		Mud Pit					
	RM @ Measured Temperature		1.640 ohm.m @ 15 degC			@		
	RMF @ Measured Temperature		1.230 ohm.m @ 15 degC			@		
RMC @ Measured Temperature		2.460 ohm.m @ 15 degC			@			
Source RMF	RMC	Calculated	Calculated					
RM @ MRT	RMF @ MRT	0.733 @ 60	0.550 @ 60	@		@		
Maximum Recorded Temperatures			60 degC					
Circulation Stopped		Time	15-May-2010	8:30				
Logger On Bottom		Time	16-May-2010	7:05				
Unit Number	Location	6061	St.John's					
Recorded By			Greg Au					
Witnessed By			R. Strickland					

[illegible]

	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			
MUD	Density	Viscosity		
	Fluid Loss	PH		
	Source Of Sample			
	RM @ Measured Temperature		@	
	RMF @ Measured Temperature		@	
	RMC @ Measured Temperature		@	
	Source RMF	RMC		
	RM @ MRT	RMF @ MRT	@	@
	Maximum Recorded Temperatures			
	Circulation Stopped	Time		
	Logger On Bottom	Time		
	Unit Number	Location		
	Recorded By			
	Witnessed By			

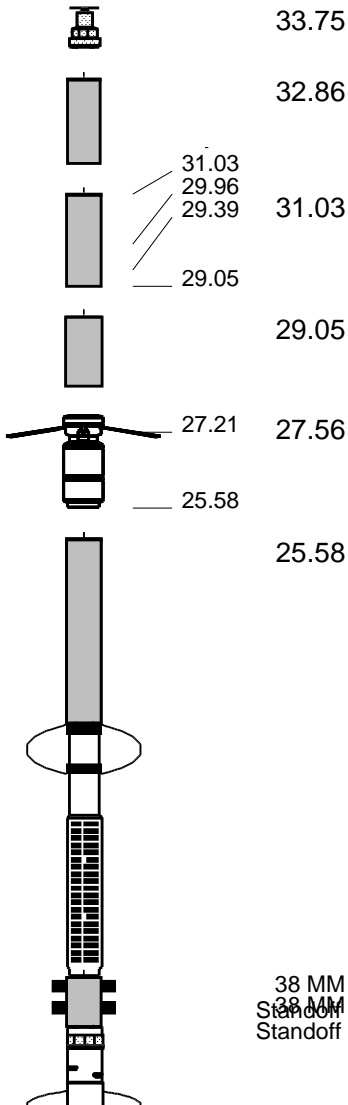
Repeat section for FMI done at 2680 m to 2580 m as per request by client

Merged calipers from FMI with DSI

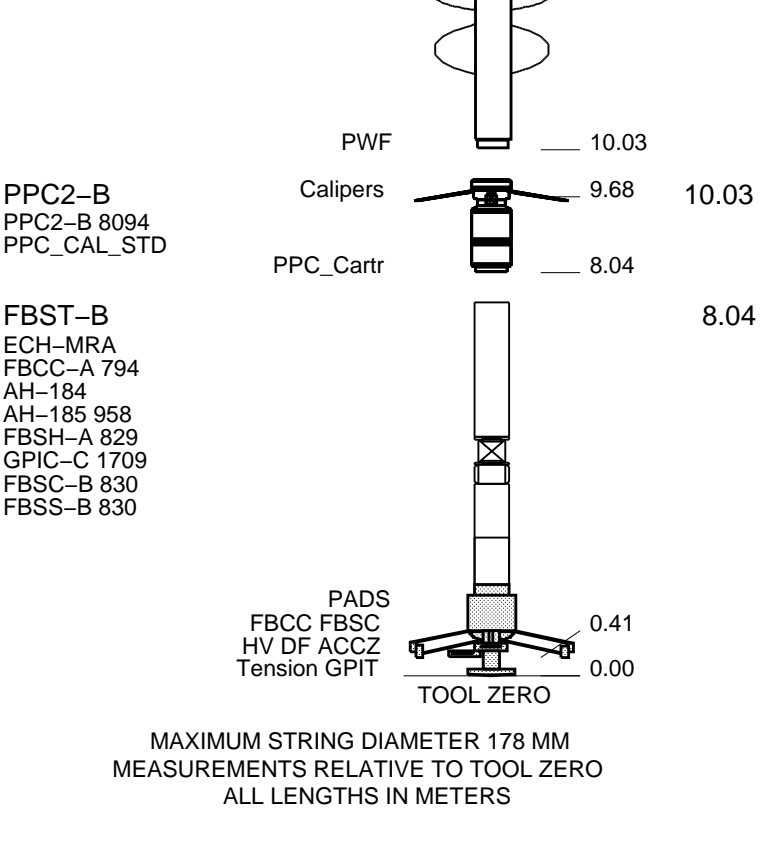
RUN 1			RUN 2		
SERVICE ORDER #:		BCJ0-00028	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		0 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

RUN 2

WITM (EDTS)-A



38 MM
38 MM
Standoff
Standoff



Client: Nalcor Energy Oil and Gas

Well: Nalcor et al Seamus 1

Field: Parson's Pond

State: Newfoundland

Country:

Rig Name: Stoneham #11

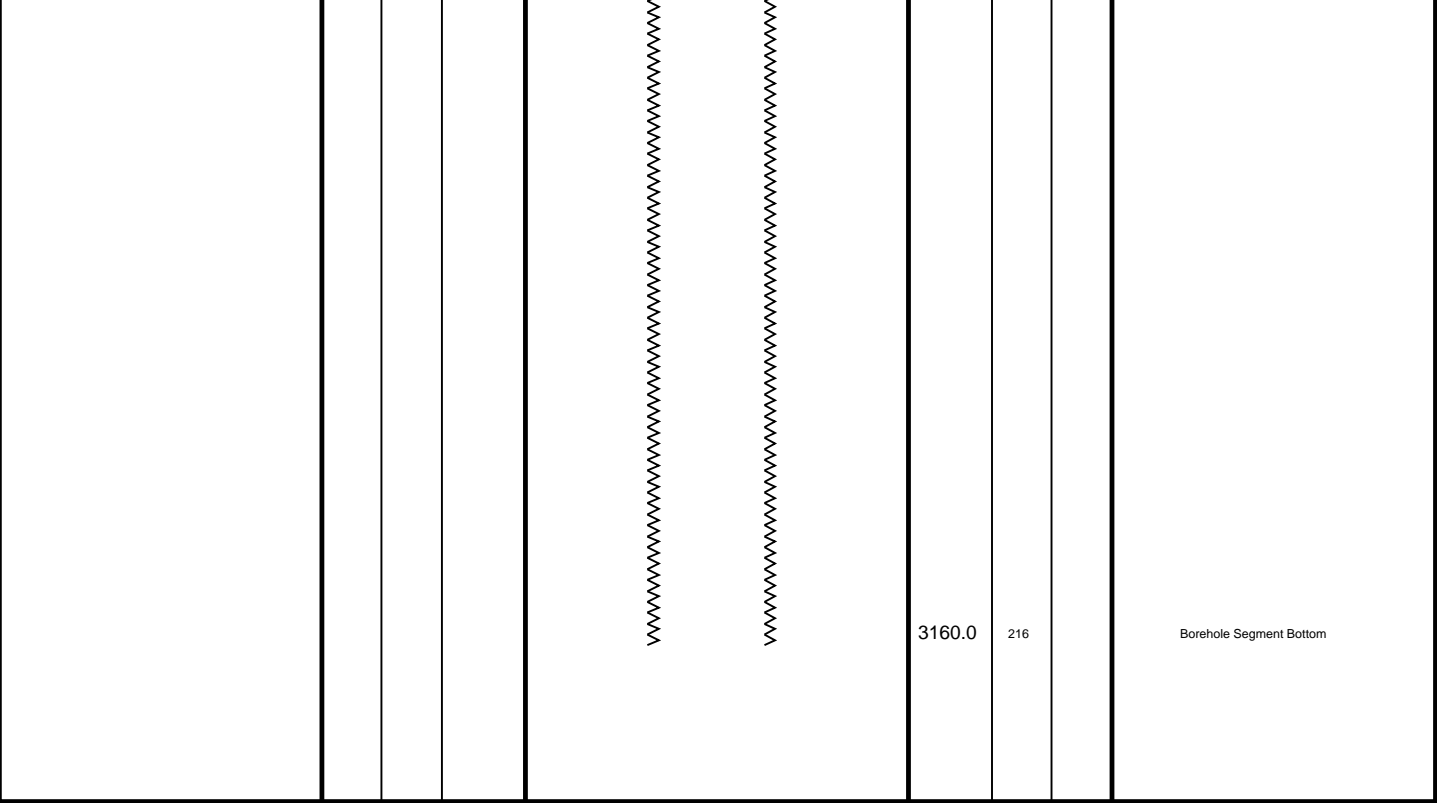
Reference Datum: Kelly Bushing

Elevation: 26.9 m

Drawing Date: 5/16/2010

API #:

Production String	(mm)		(m)	Well Schematic	(m)	(mm)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	244		Casing String
					2292.4 2292.4	244 216		Casing Shoe Borehole Segment



All Depth's Drillers



Main Pass
1:600

MAXIS Field Log

Input DLIS Files						
DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
Output DLIS Files						
DEFAULT	FMI_CAL_DSI_230PUP	FN:36	PRODUCER	20-May-2010 01:24		
CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24		
OP System Version: 17C0-154						
FBST-B	17C0-154		PPC2-B	17C0-154		
DSST-B	17C0-154		PPC1-B	17C0-154		
EDTC-B	SKK-3882-EDTCB_b		DTPC-A	SKK-3882-EDTCB_b		

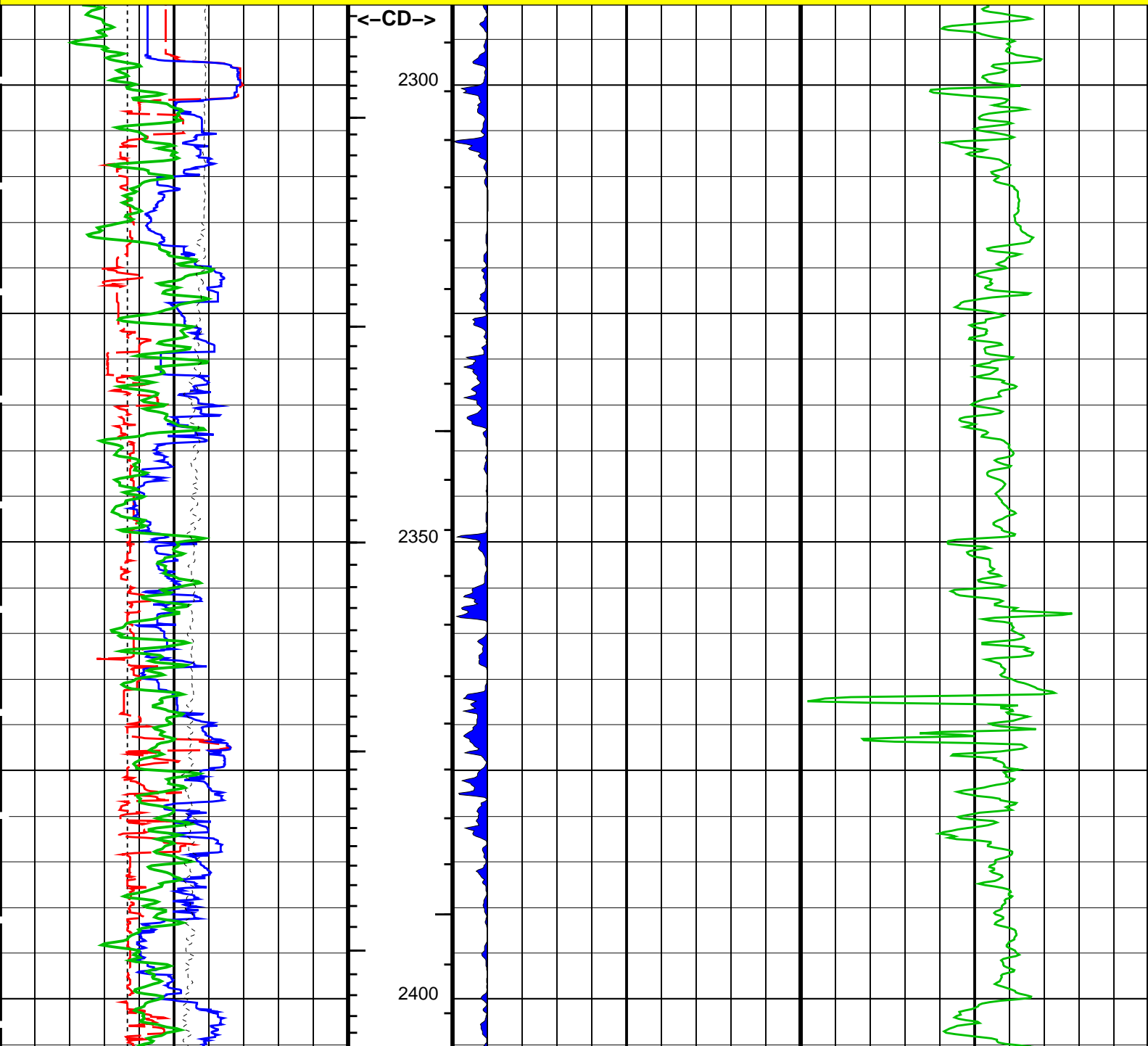
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

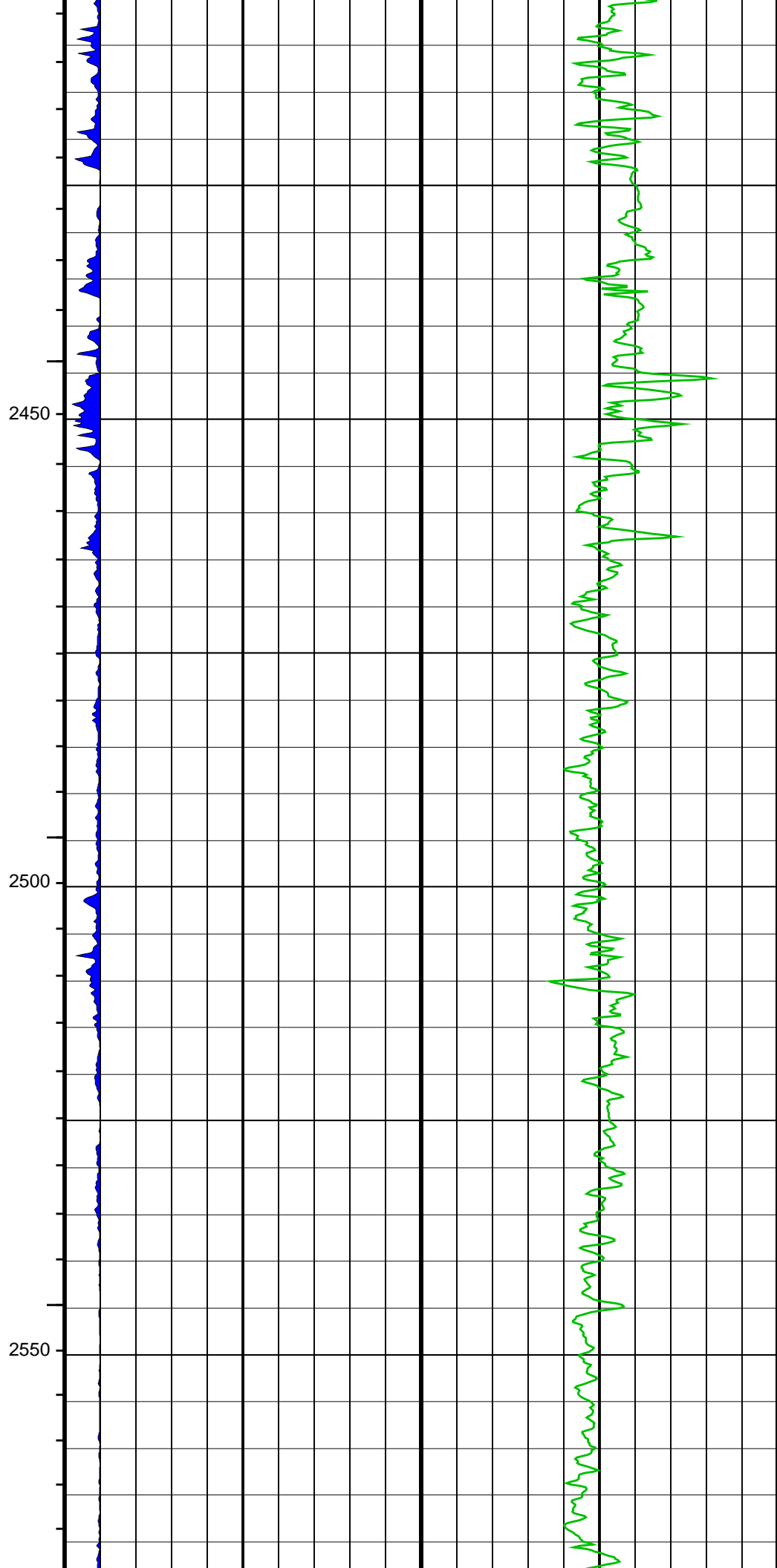
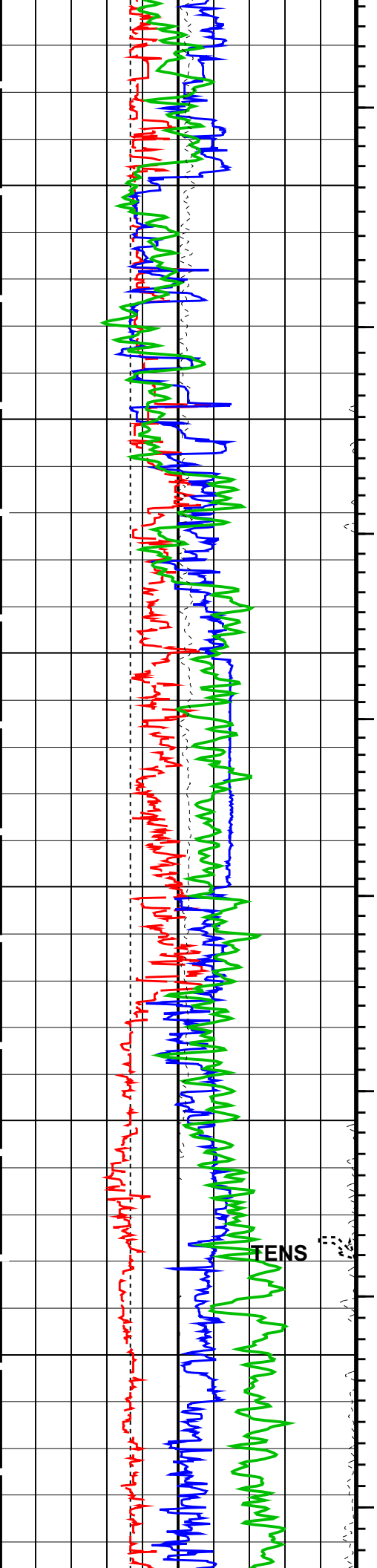
Time Mark Every 60 S

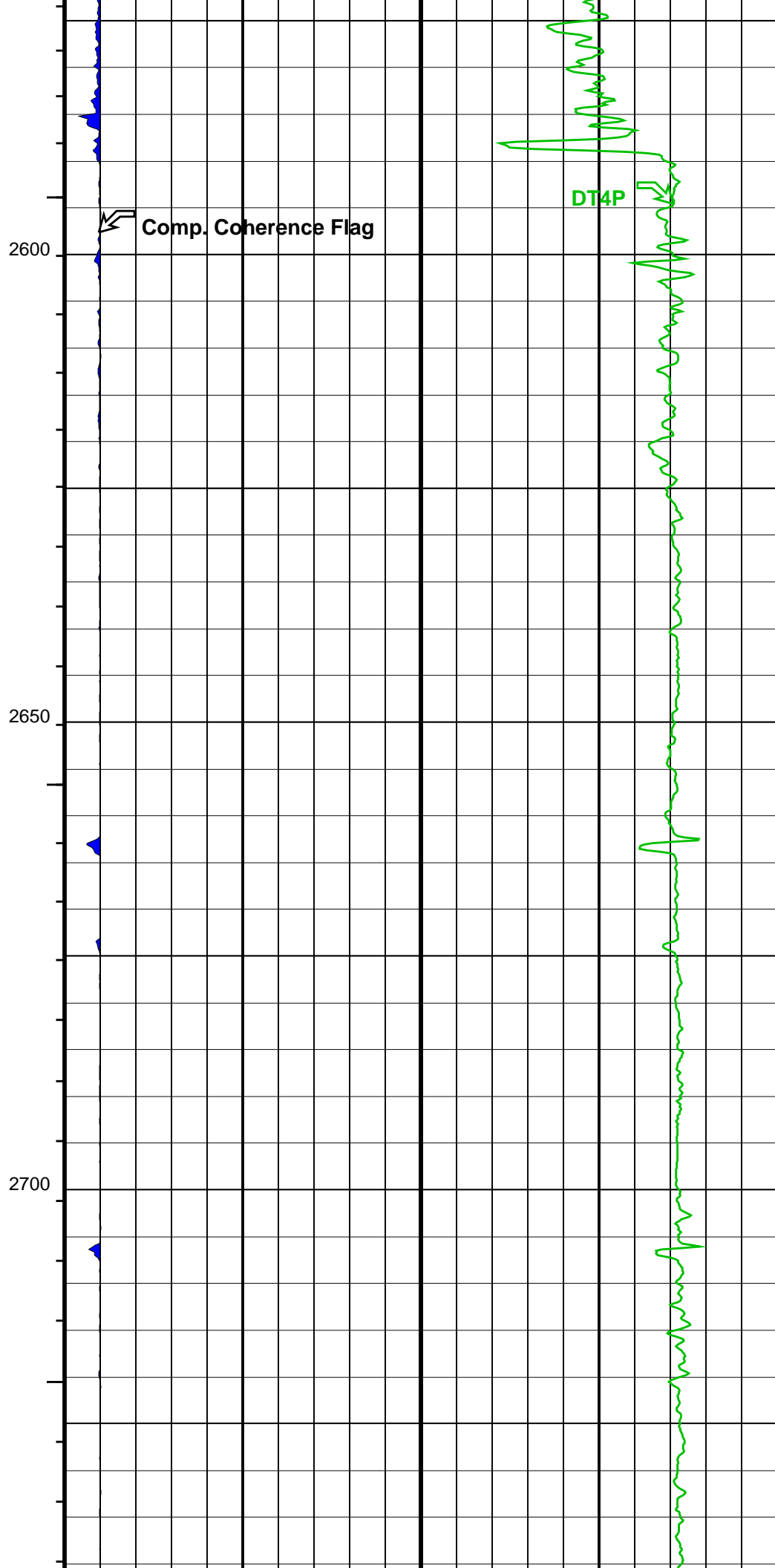
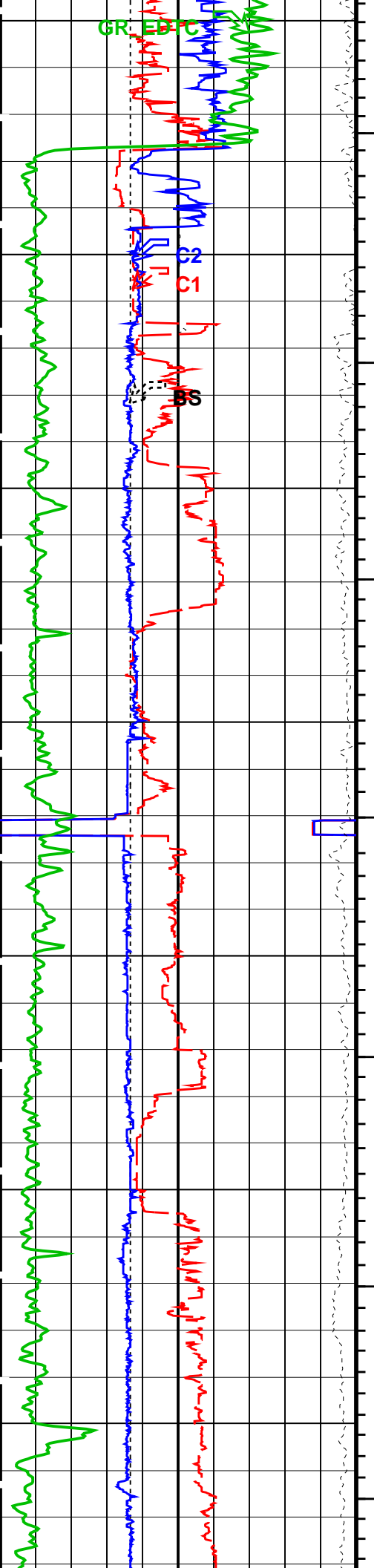
		Tension (TENS)	
		25000 (N)	0
Gamma Ray (GR_EDTC)			
0 (GAPI)		150	
Caliper 2 (C2)			
125 (MM)		375	
Caliper 1 (C1)			
125 (MM)		375	
Bit Size (BS)			
125 (MM)		375	
		Delta-T Comp – P & S (DT4P)	
		500 (US/M)	100

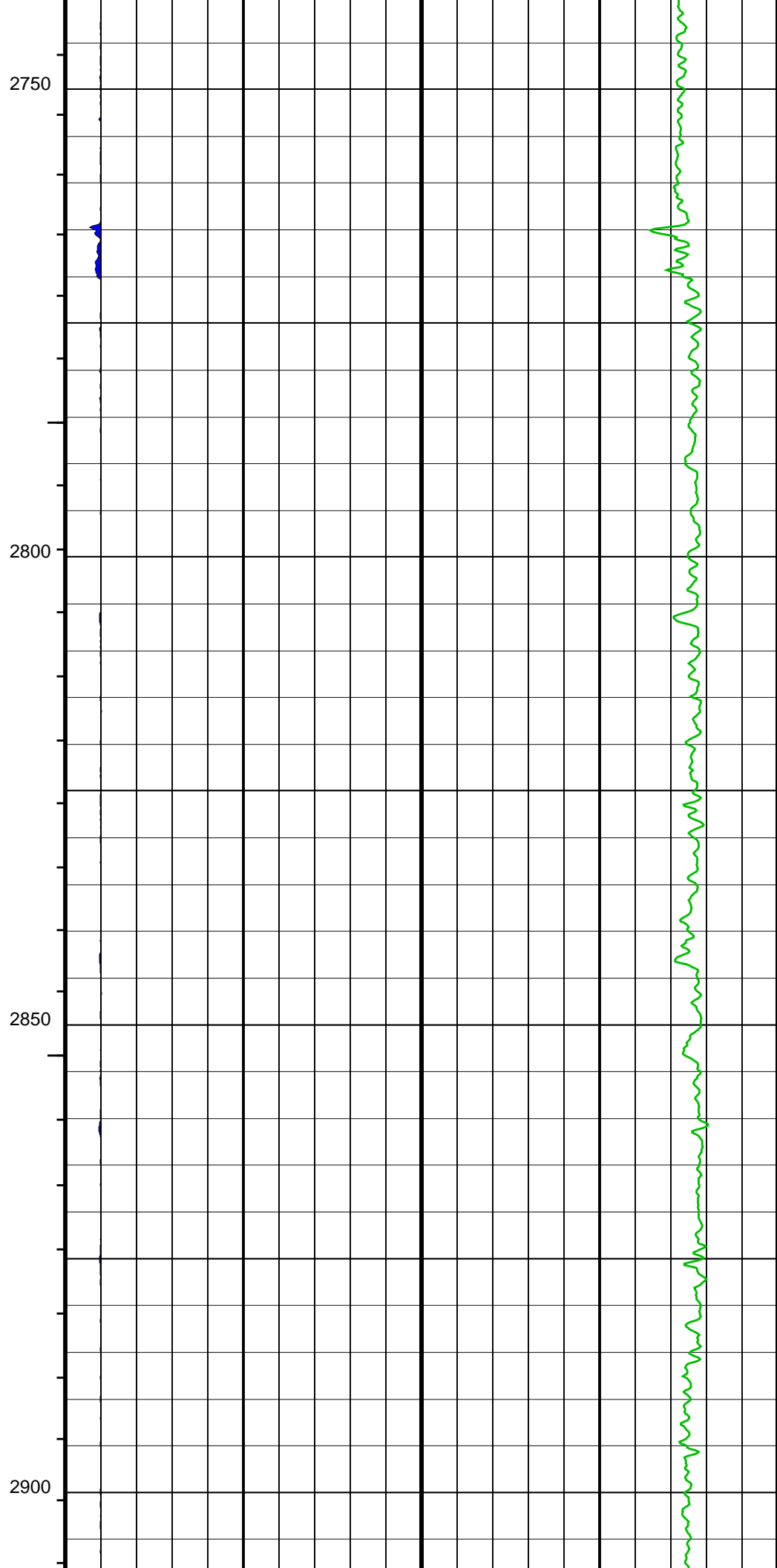
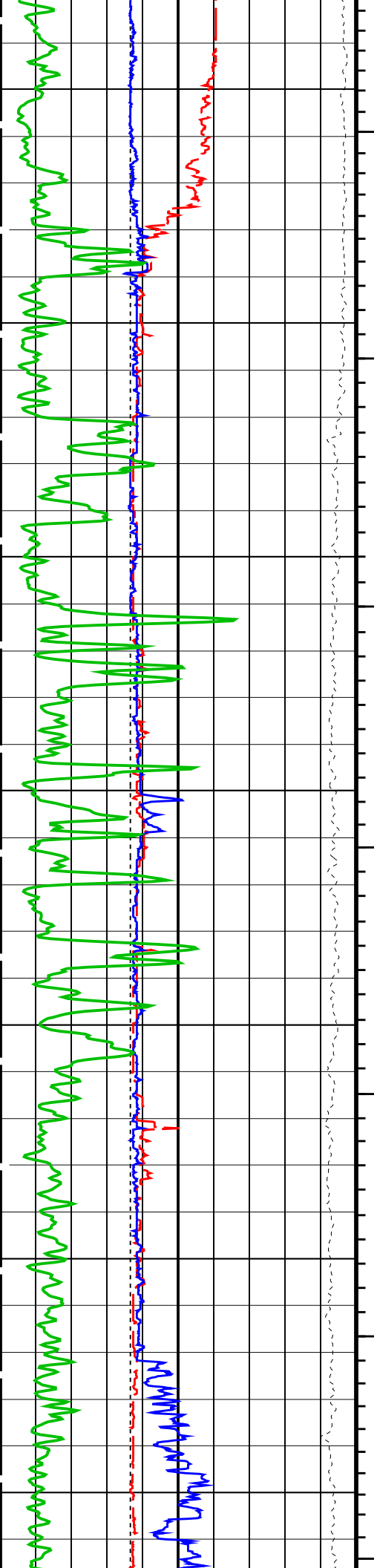
Low Comp
Coherence Flag

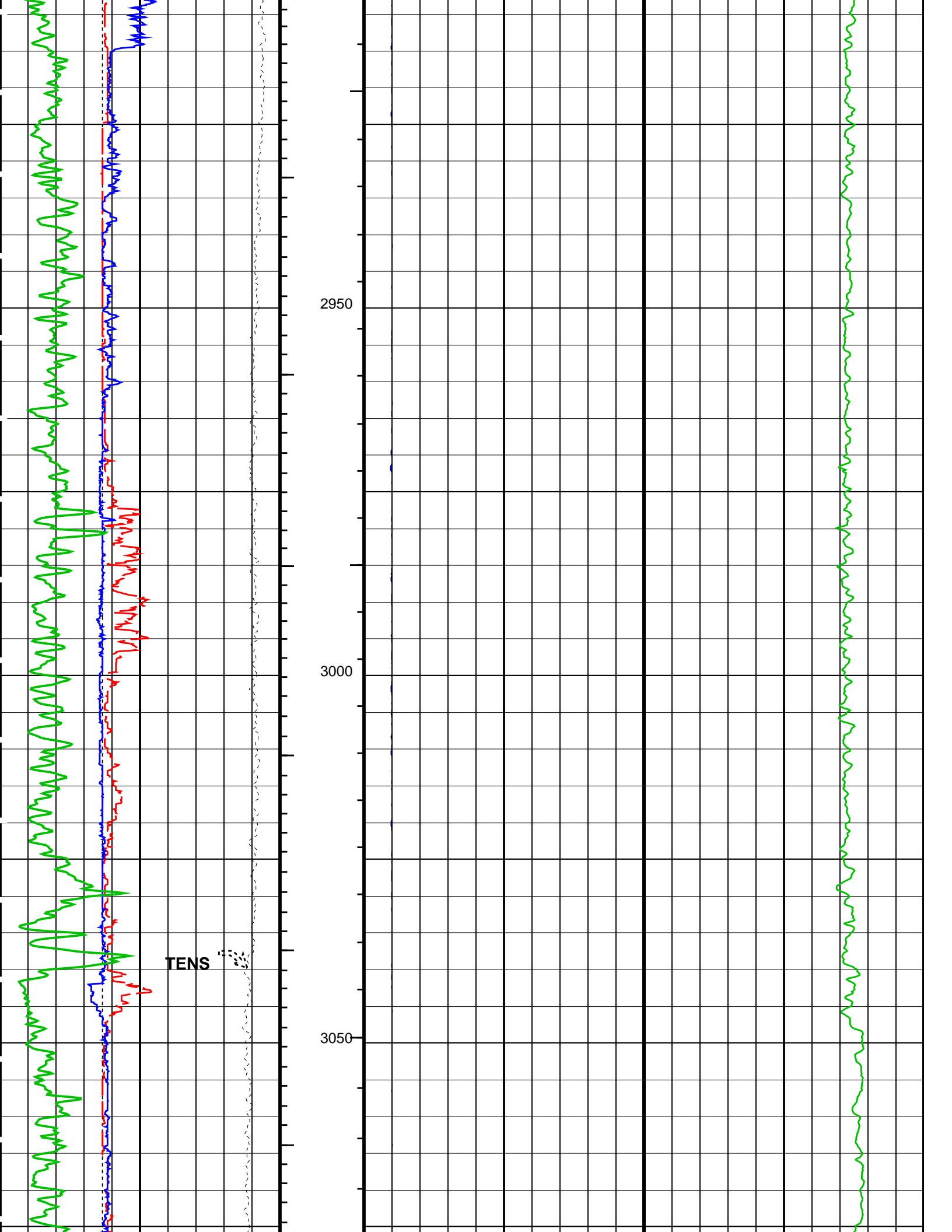
MAIN PASS: DIPOLE SONIC – DELTA-T

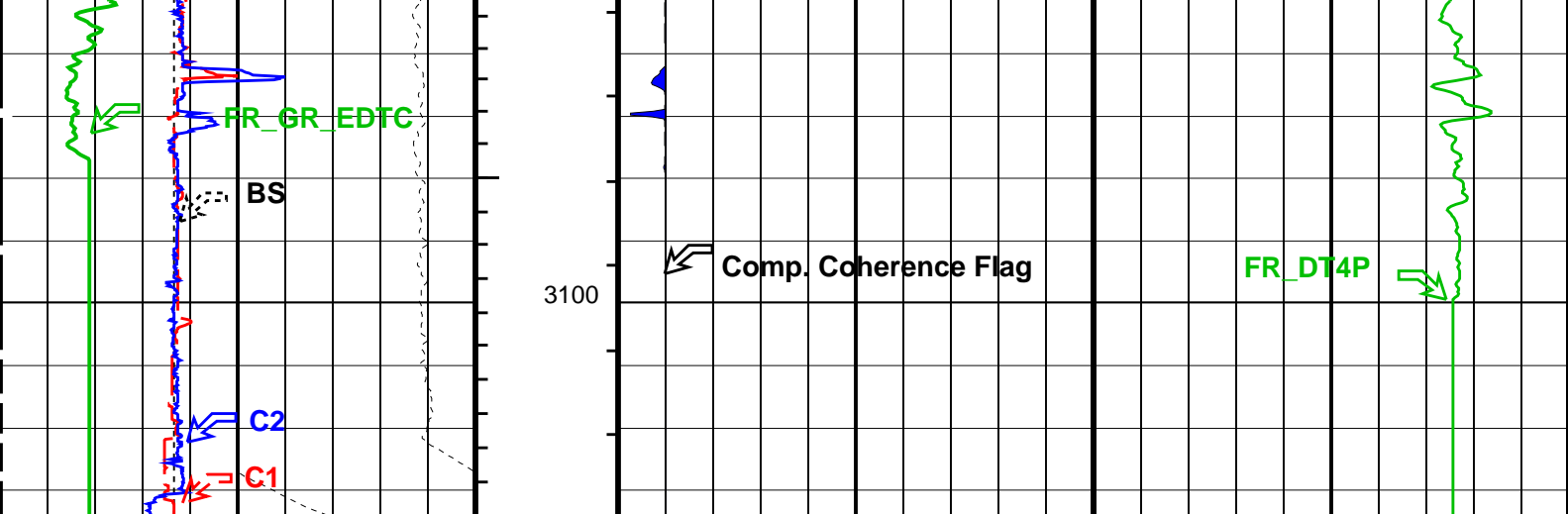












MAIN PASS: DIPOLE SONIC - DELTA-T

Bit Size (BS)		Delta-T Comp – P & S (DT4P)	
125	(MM)	500	100
375			
Caliper 1 (C1)		Low Comp Coherence Flag	
125	(MM)		
375			
Caliper 2 (C2)			
125	(MM)	375	
Gamma Ray (GR_EDTC)			
0	(GAPI)	150	
Tension (TENS)			
25000	(N)	0	

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ 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	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	131.234	US/M
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	590.551	US/M
DTF	Delta-T Fluid	670.932	US/M
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
ITTS	Integrated Transit Time Source	DTCO	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	187.008	US/M
MTXG	Monopole Transmitter Geometry	4724	MM
NWI4	Number Waveform Items 4	8	
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	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
SAS4	STC Sonic Array Status – Monopole P&S	255	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	246.063	US/M
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	590.551	US/M
STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
TWI4	STC Integration Time Window – Monopole P&S	500	US

EDTC - B: Enhanced DTS Cartridge

BHS	EDTC-B: Enhanced DTS Cartridge	Borehole Status	OPEN	
	HOLEV: Integrated Hole/Cement Volume			
BHS		Borehole Status	OPEN	
FCD		Future Casing (Outer) Diameter	177.8	MM
HVCS		Integrated Hole Volume Caliper Selection	C1/C2	
	DIR: Directional Survey	Computation		
SPVD		TVD of Starting Point	0	M
TIMD		Along-hole depth of Tie-in Point	0	M
TIVD		TVD of Tie-in Point	0	M
	System and Miscellaneous			
BS		Bit Size	216.000	MM
DO		Depth Offset for Playback	0.0	M
PP		Playback Processing	RECOMPUTE	
TD		Total Depth	3129.2	M

Format: DSI_DTSONIC_D600

Vertical Scale: 1:600

Graphics File Created: 20-May-2010 01:24

OP System Version: 17C0-154				
FBST-B	17C0-154	PPC2-B	17C0-154	
DSST-B	17C0-154	PPC1-B	17C0-154	
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b	

Input DLIS Files						
DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
Output DLIS Files						
DEFAULT	FMI_CAL_DSI_230PUP	FN:36	PRODUCER	20-May-2010 01:24		
CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24		



Main Pass

1:240

MAXIS Field Log

Input DLIS Files						
DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
Output DLIS Files						
DEFAULT	FMI_CAL_DSI_230PUP	FN:36	PRODUCER	20-May-2010 01:24		
CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24		

OP System Version: 17C0-154				
FBST-B	17C0-154	PPC2-B	17C0-154	
DSST-B	17C0-154	PPC1-B	17C0-154	
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b	

PIP SUMMARY				
└ Integrated Hole Volume Minor Pip Every 0.1 M3				
└ Integrated Hole Volume Major Pip Every 1 M3				
└ Integrated Transit Time Minor Pip Every 1 MS				
└ Integrated Transit Time Major Pip Every 10 MS				
Time Mark Every 60 S				

	Tension (TENS)	
25000	(N)	0

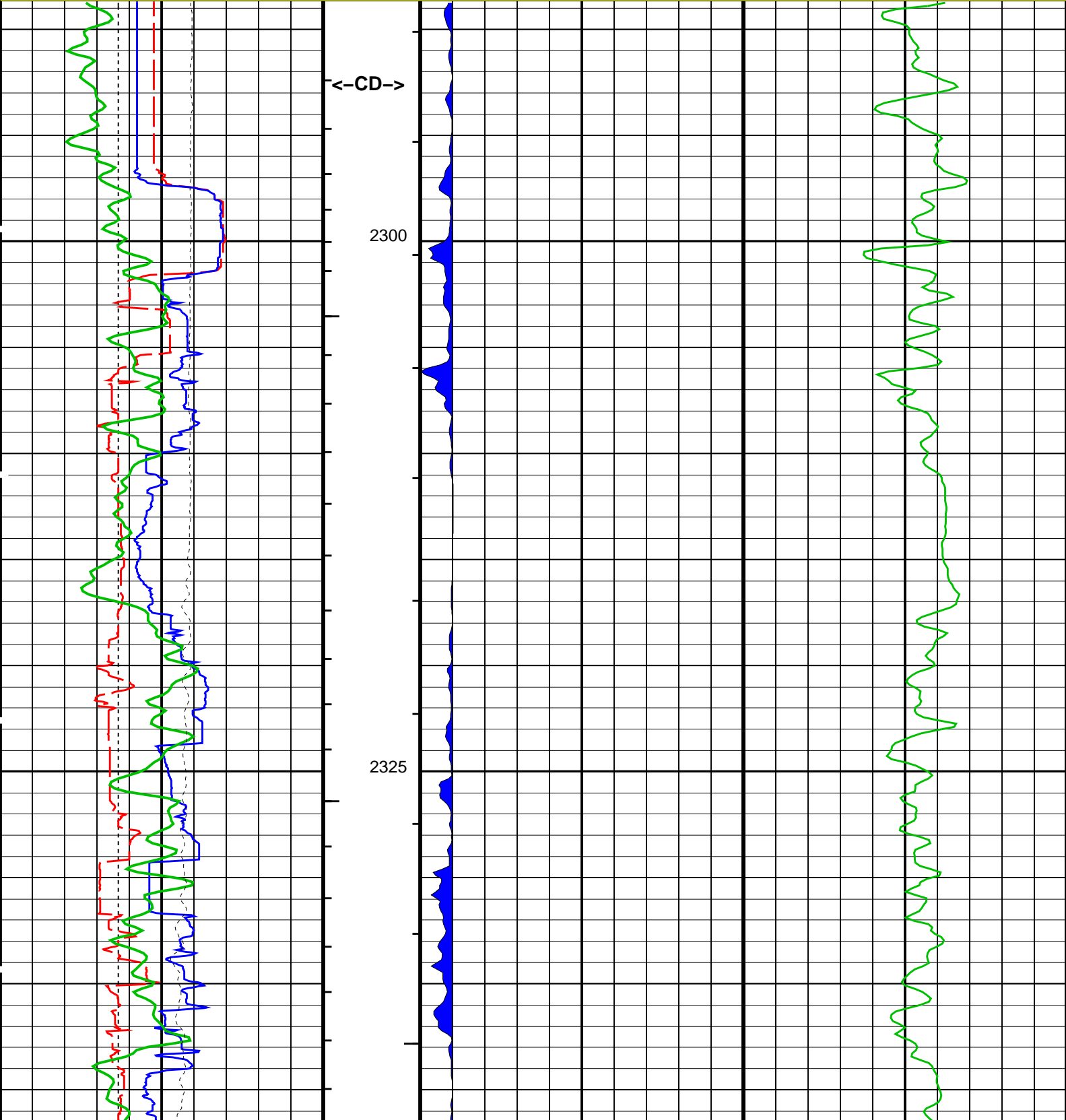
Gamma Ray (GR_EDTC)		
0	(GAPI)	150
Caliper 2 (C2)		
125	(MM)	375
Caliper 1 (C1)		
125	(MM)	375
Bit Size (BS)		
125	(MM)	375

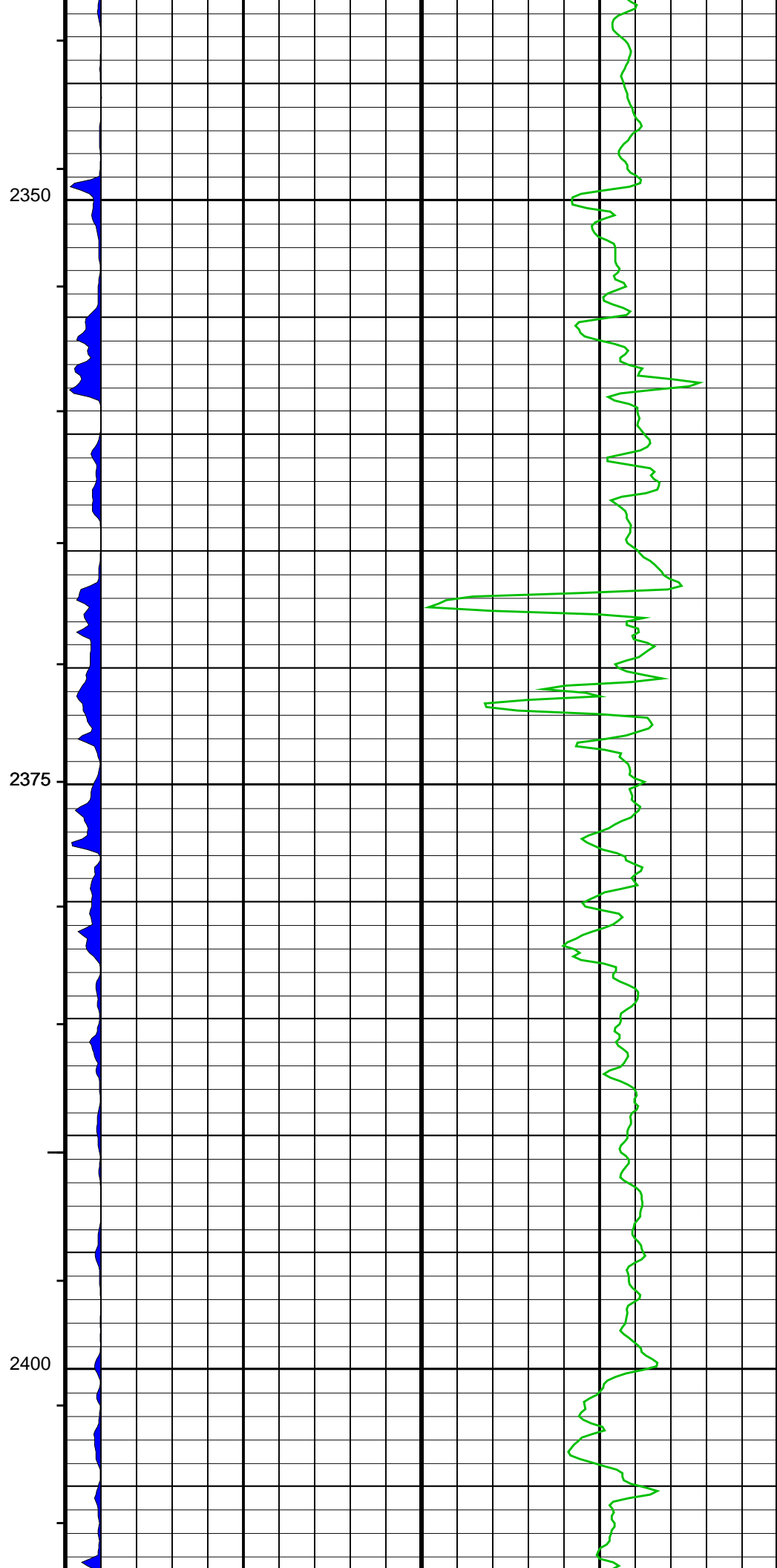
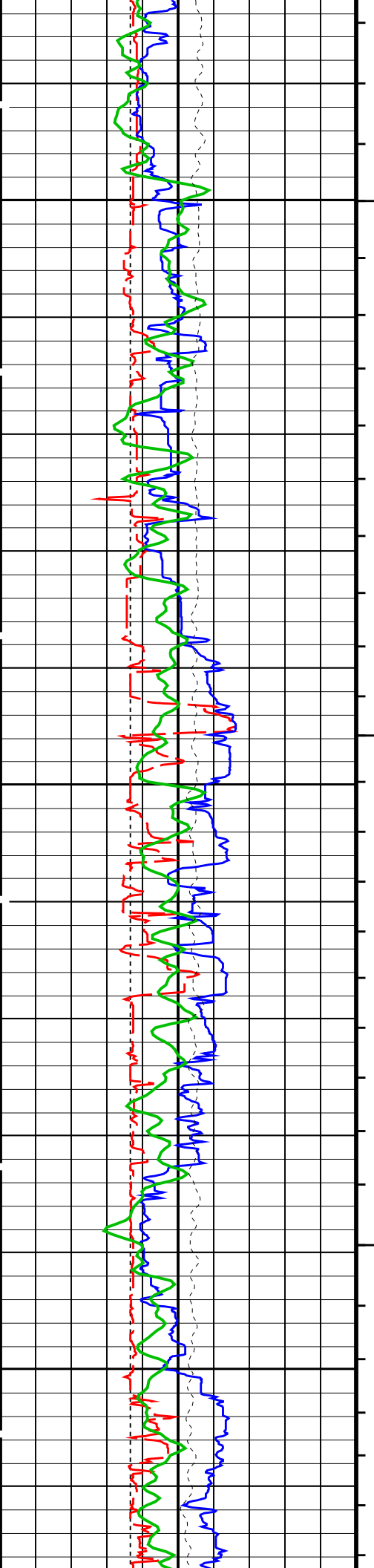
Low Comp

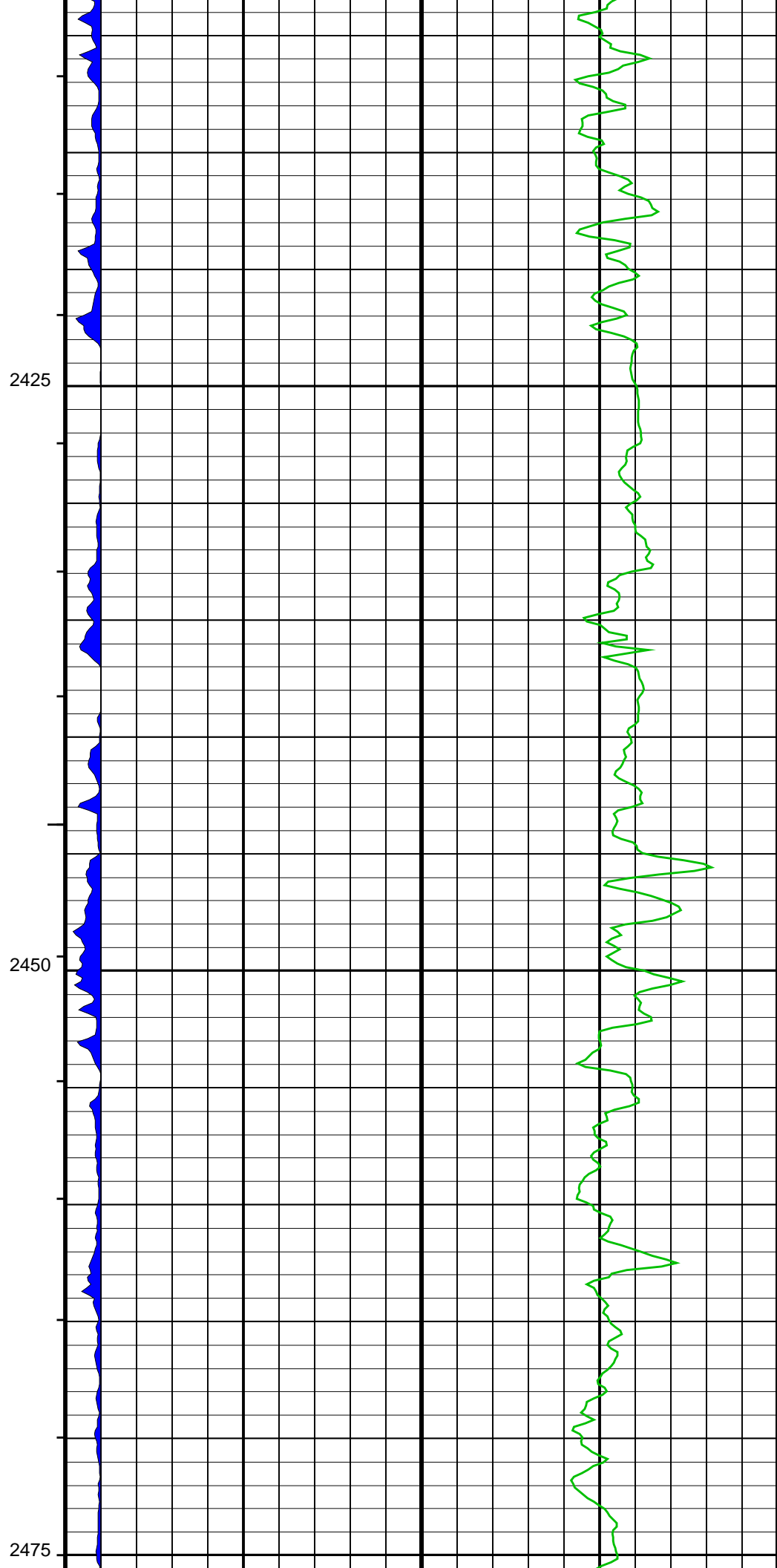
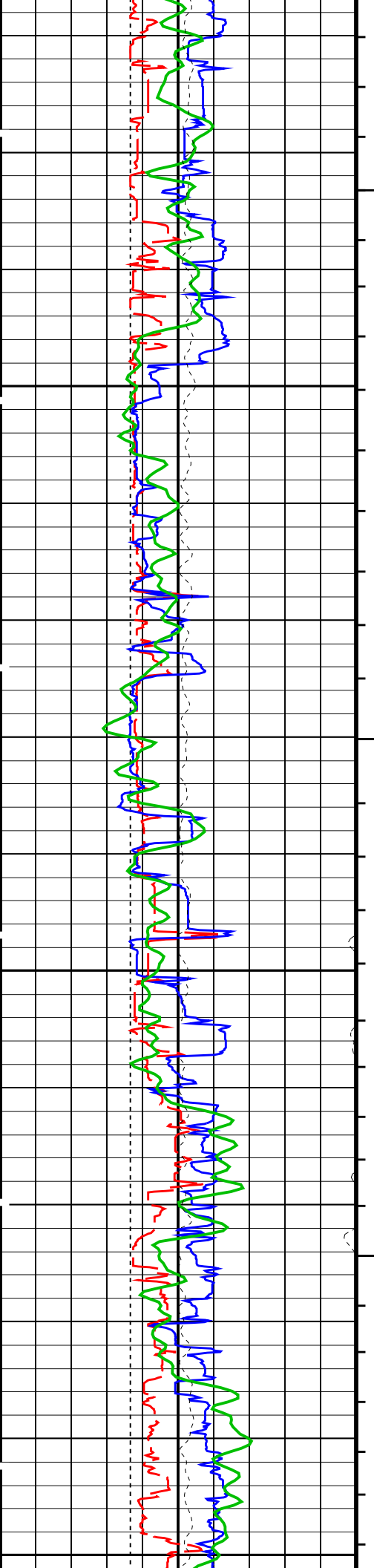
Coherence Flag

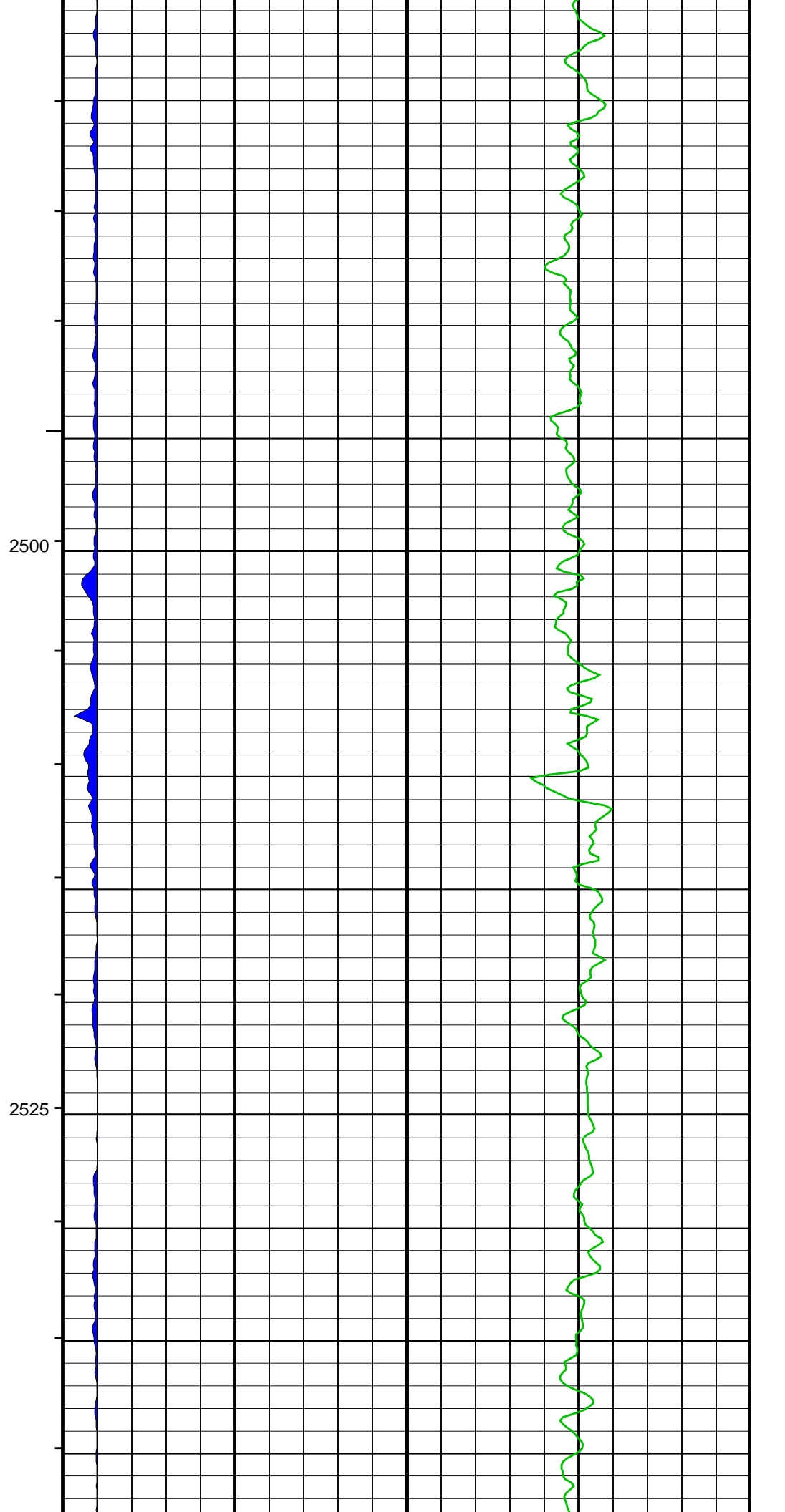
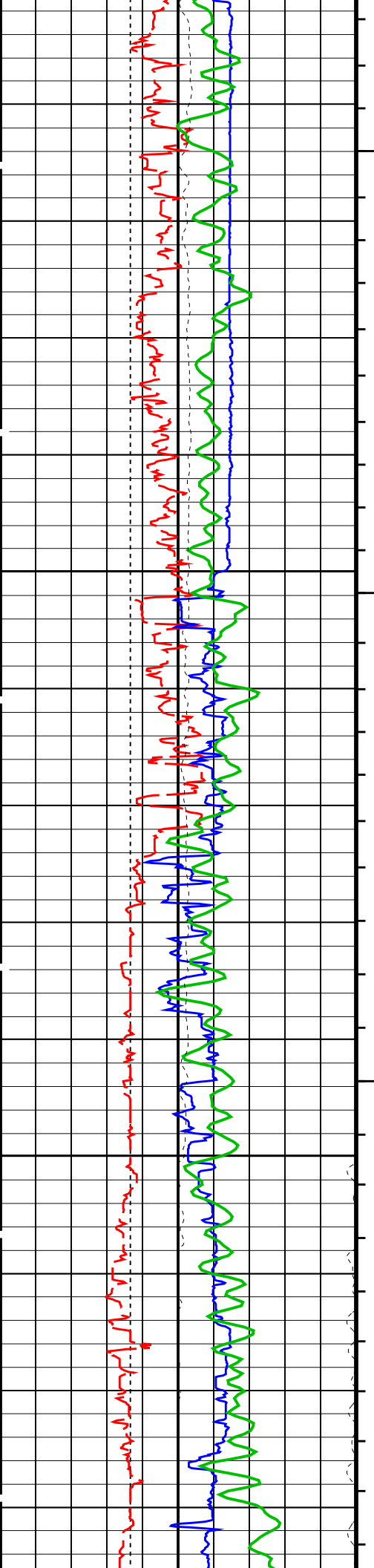
Delta-T Comp – P & S (DT4P)		
500	(US/M)	100

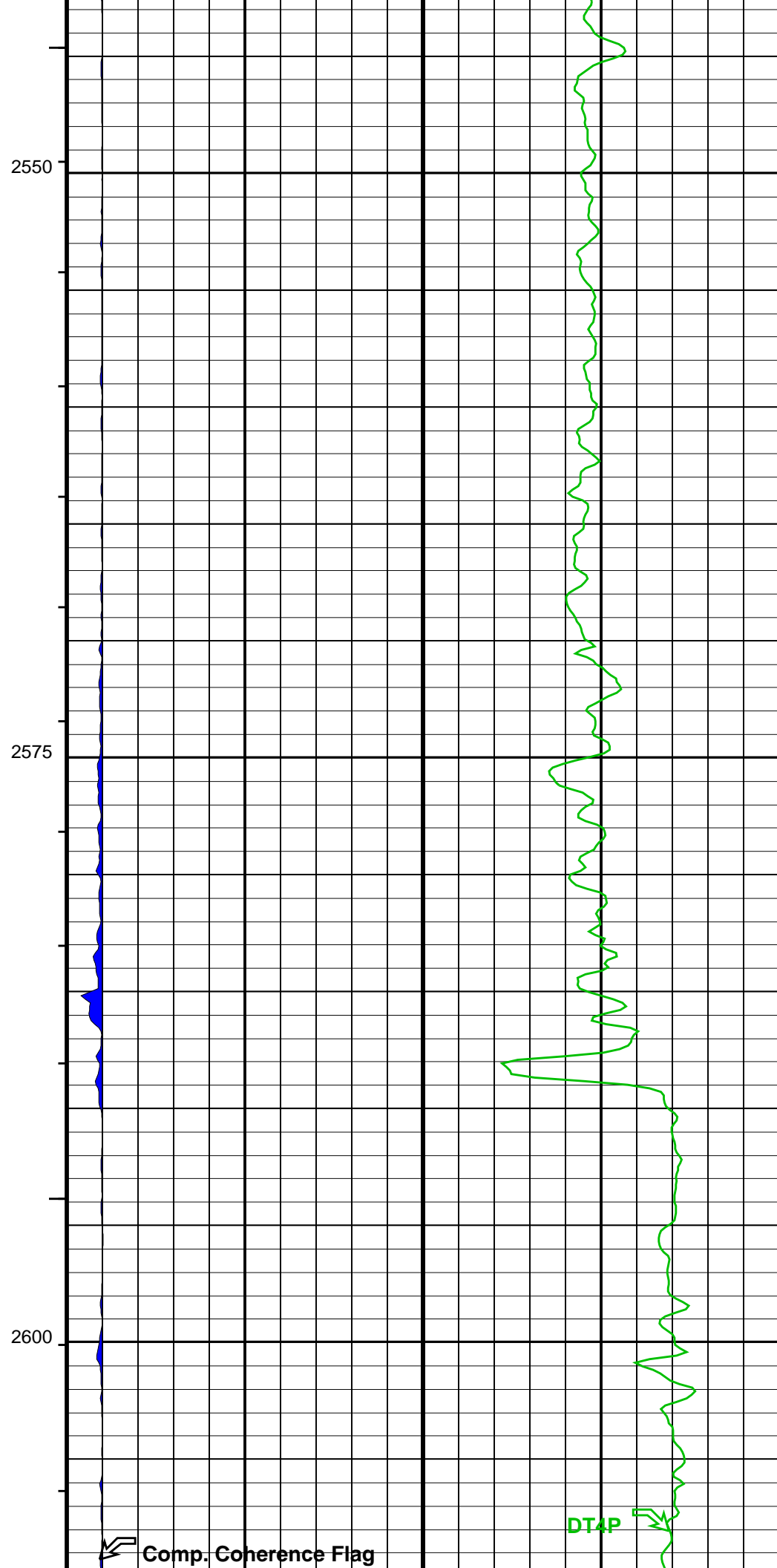
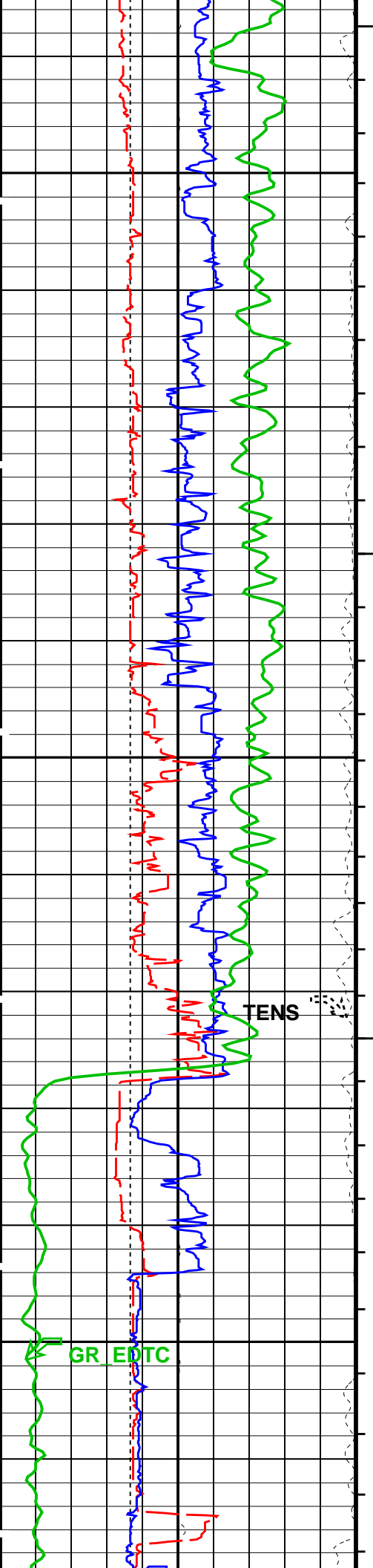
MAIN PASS: DIPOLE SONIC – DELTA-T

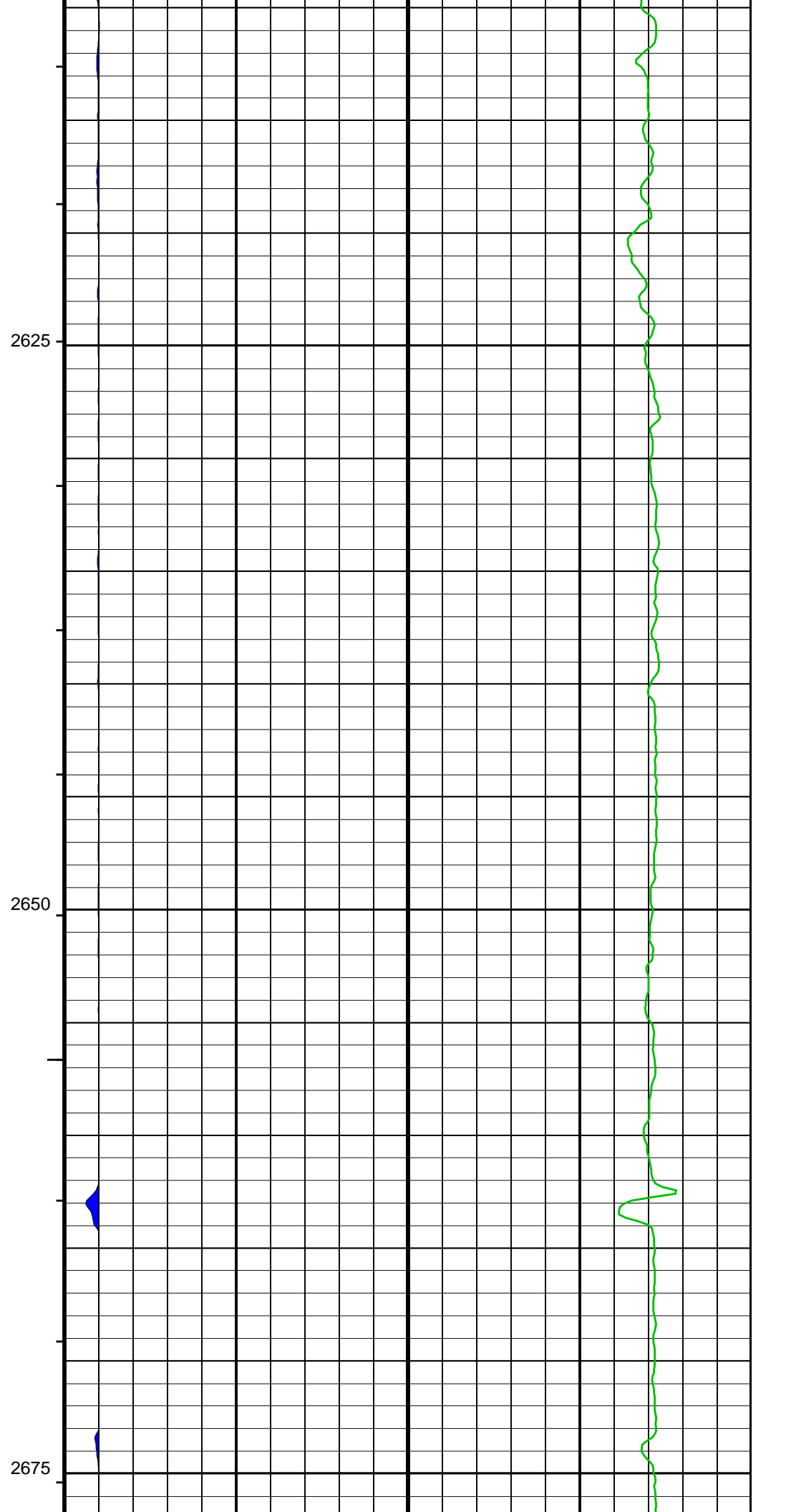
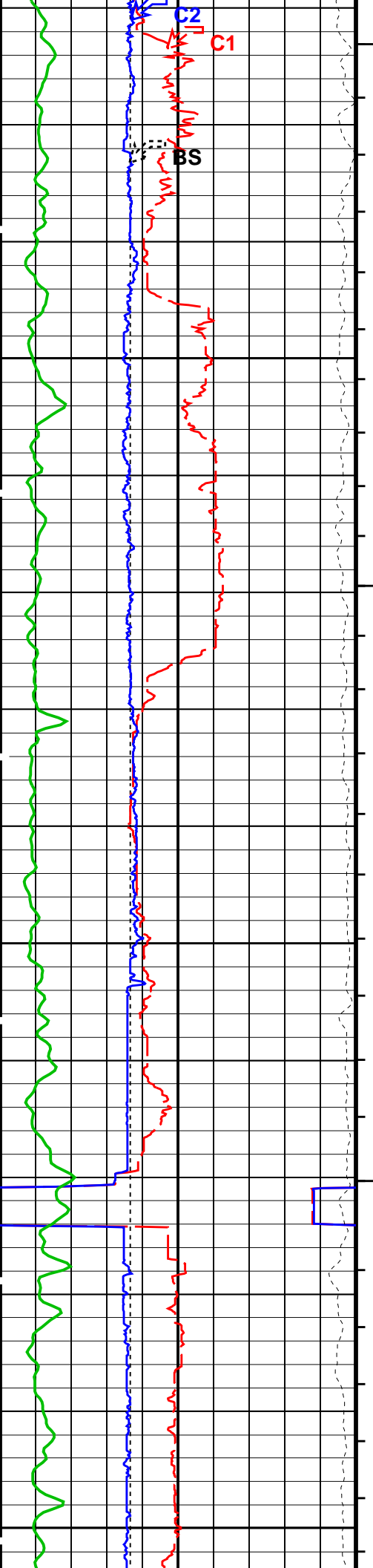


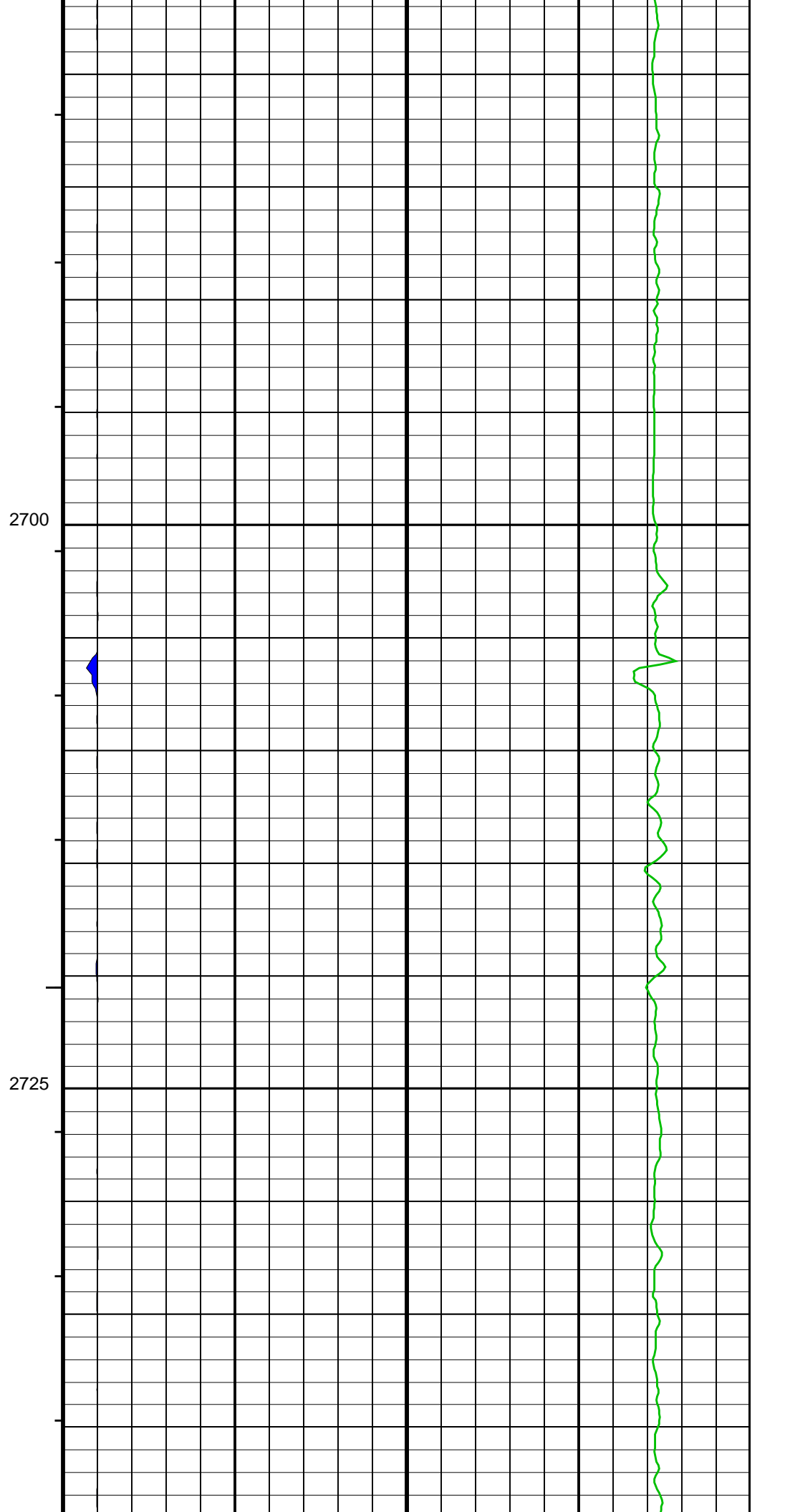
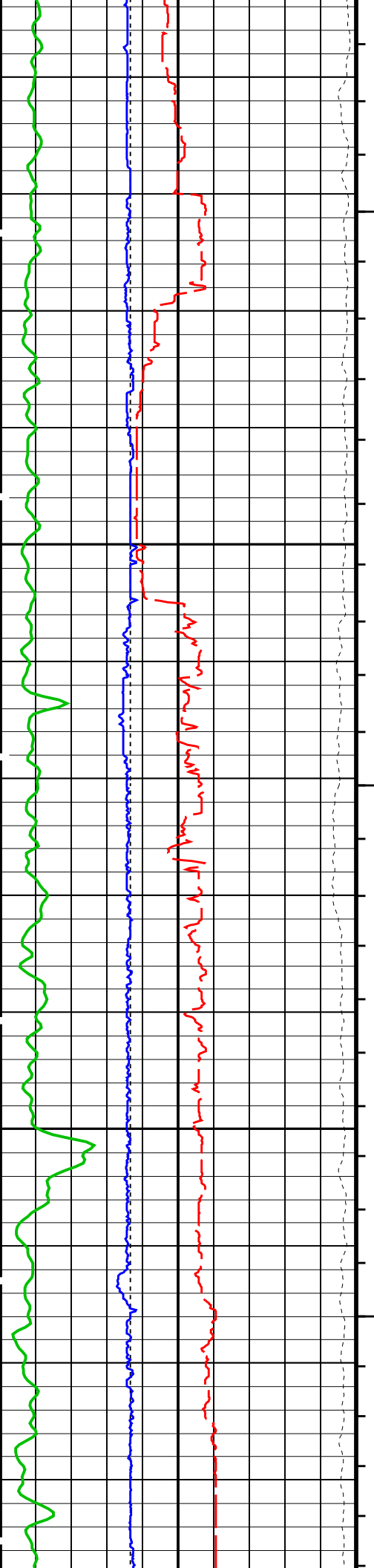


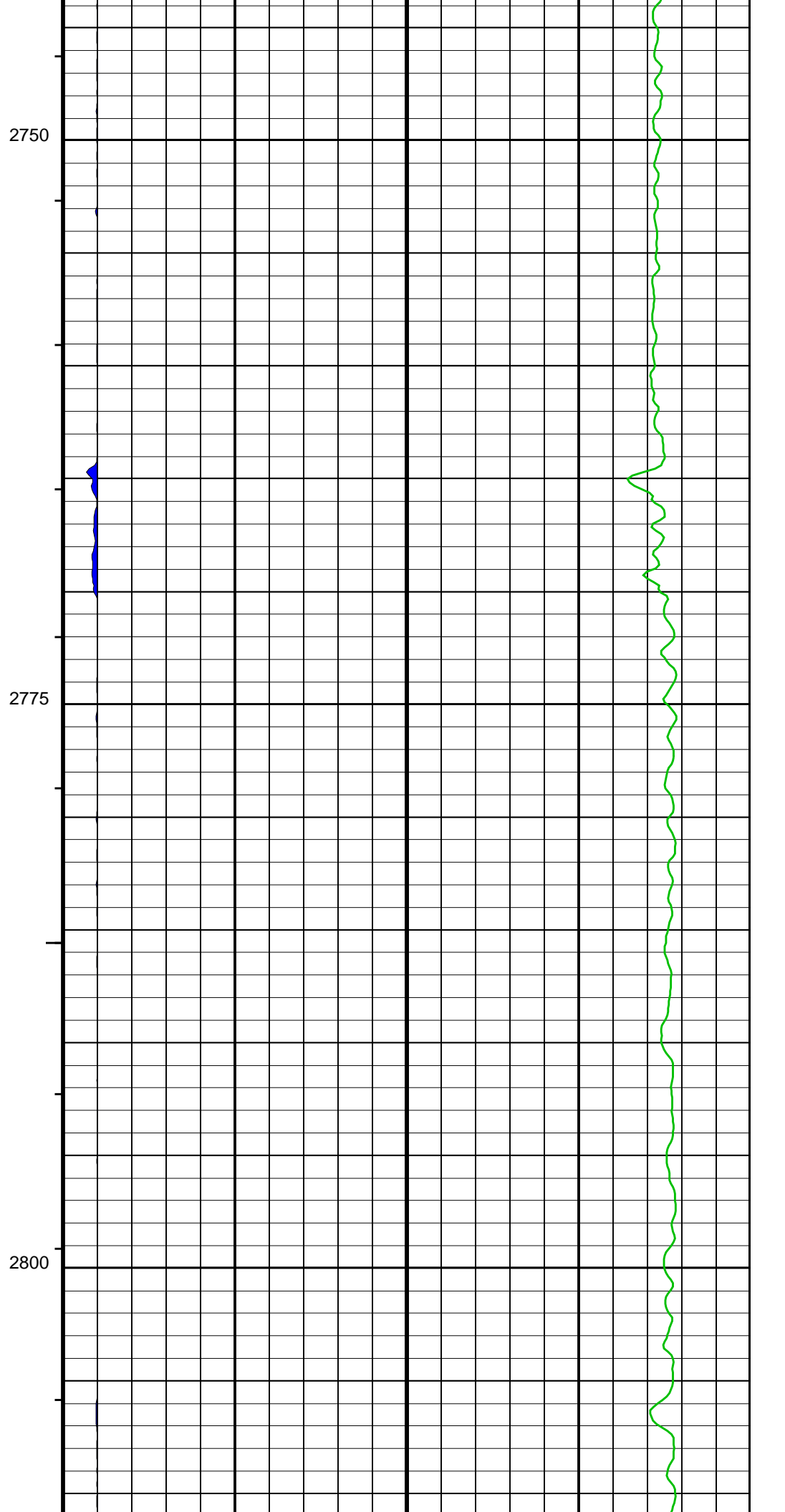
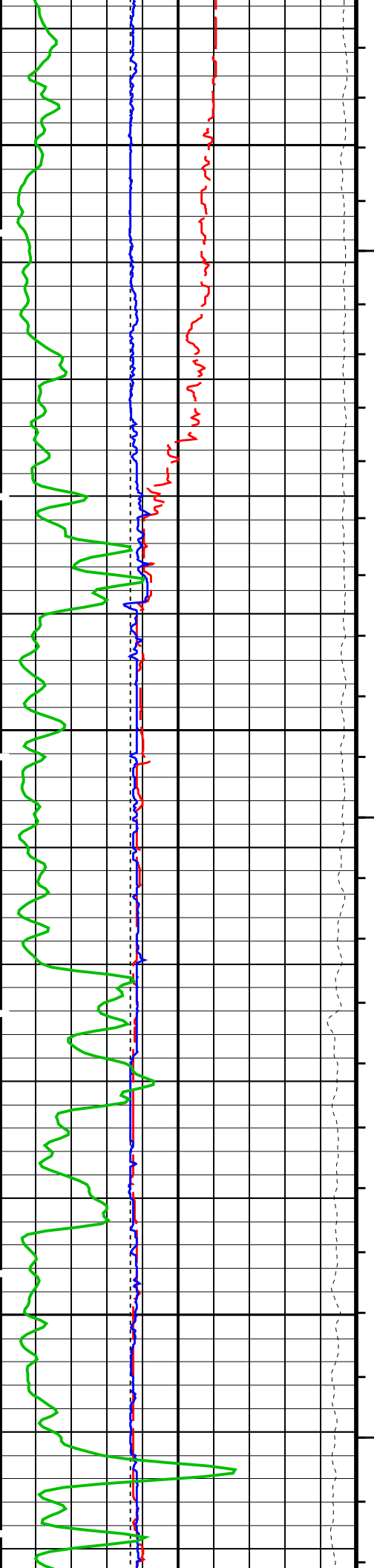


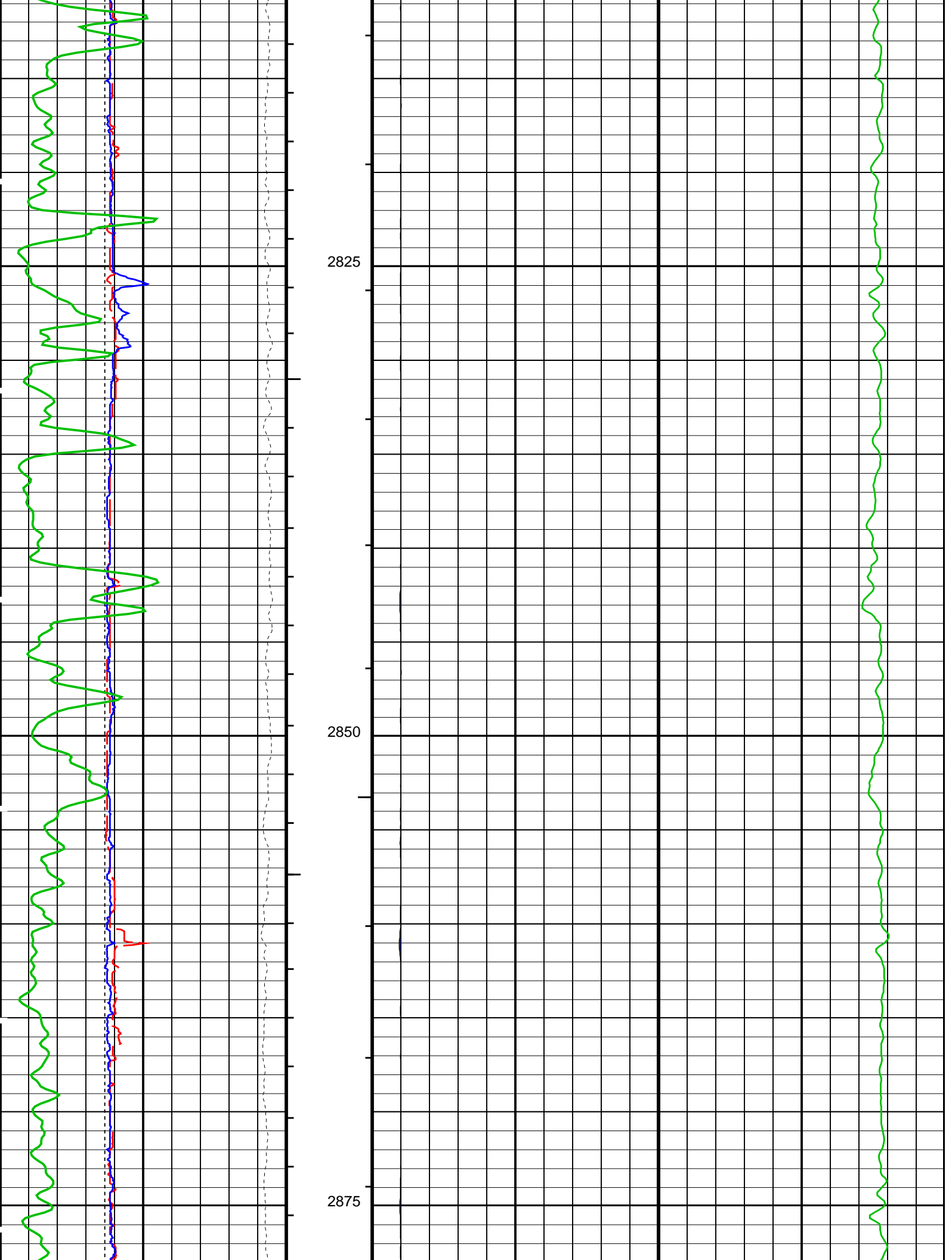


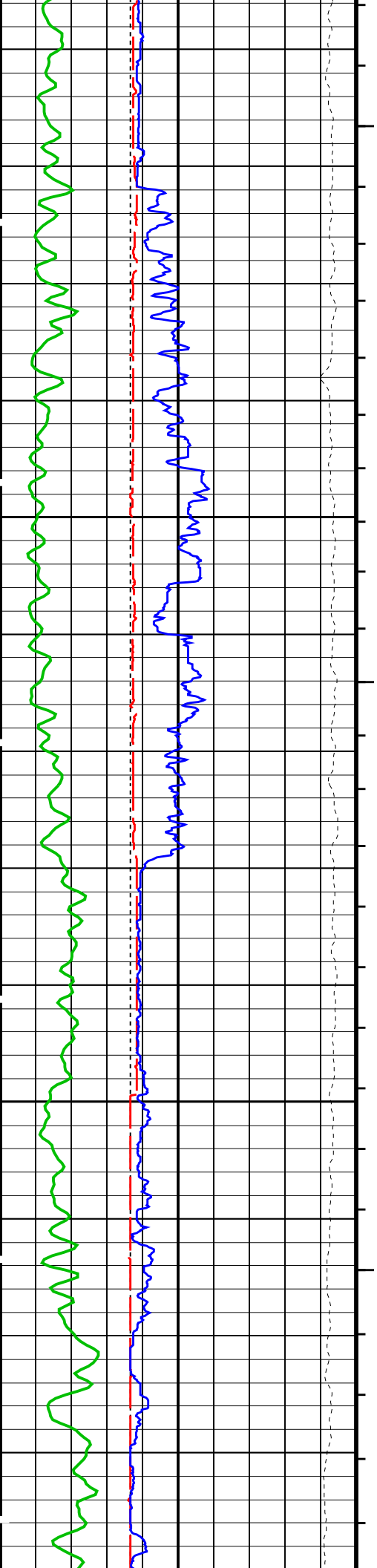






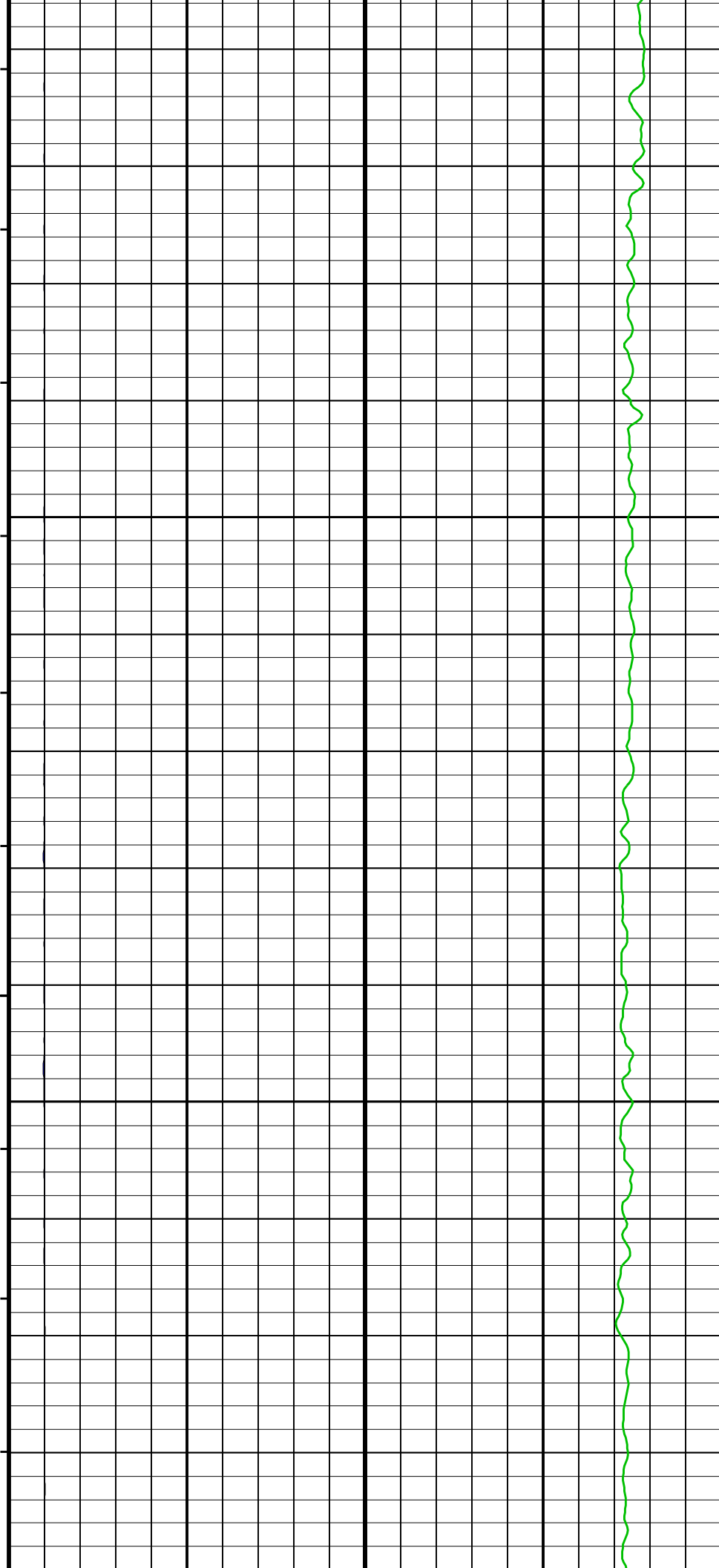


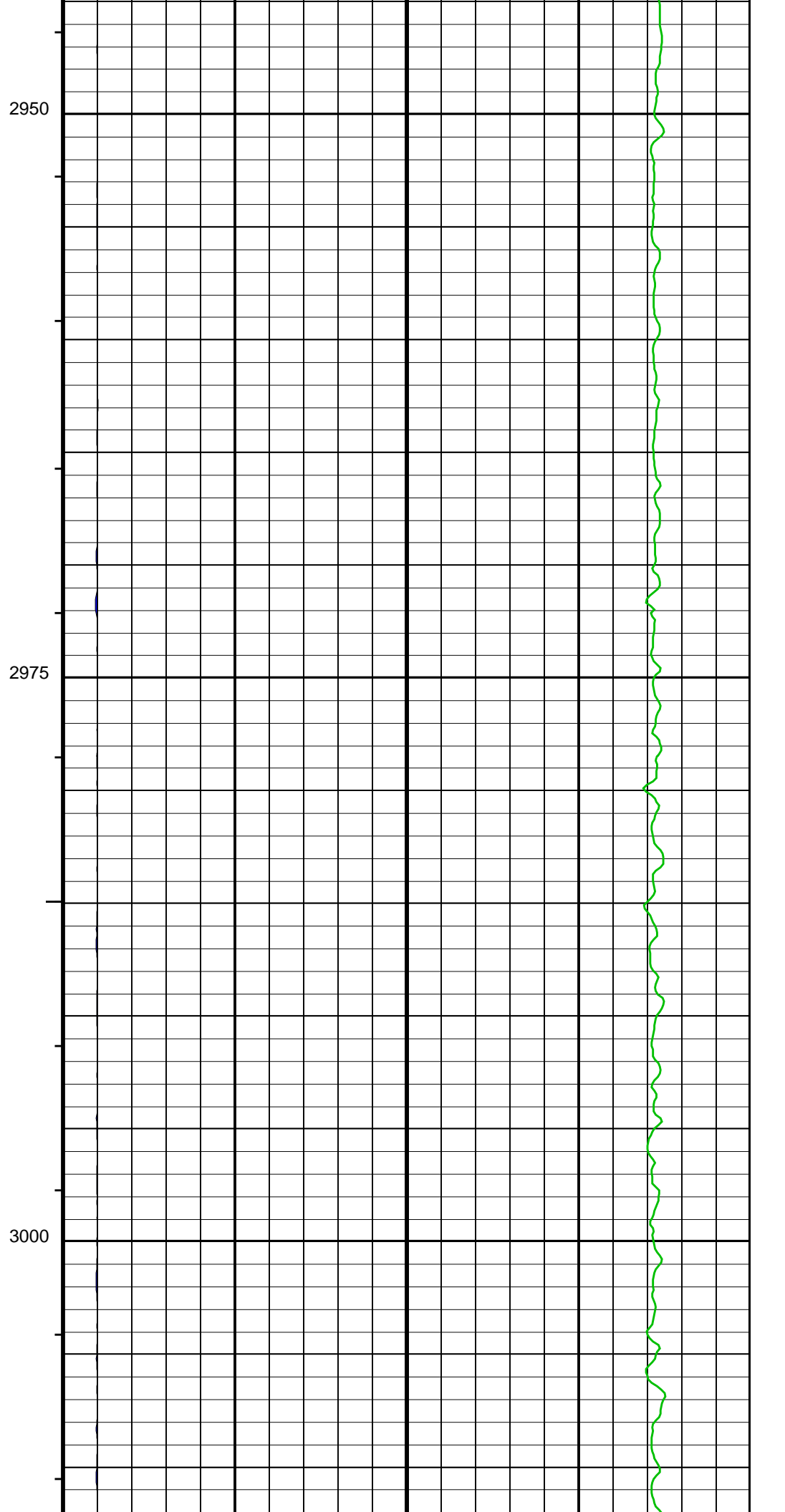
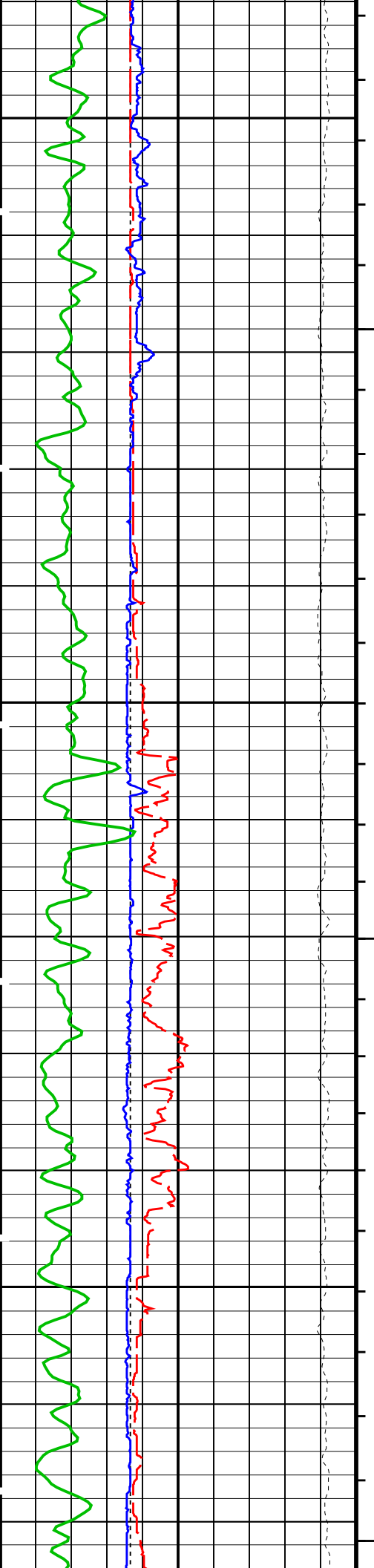


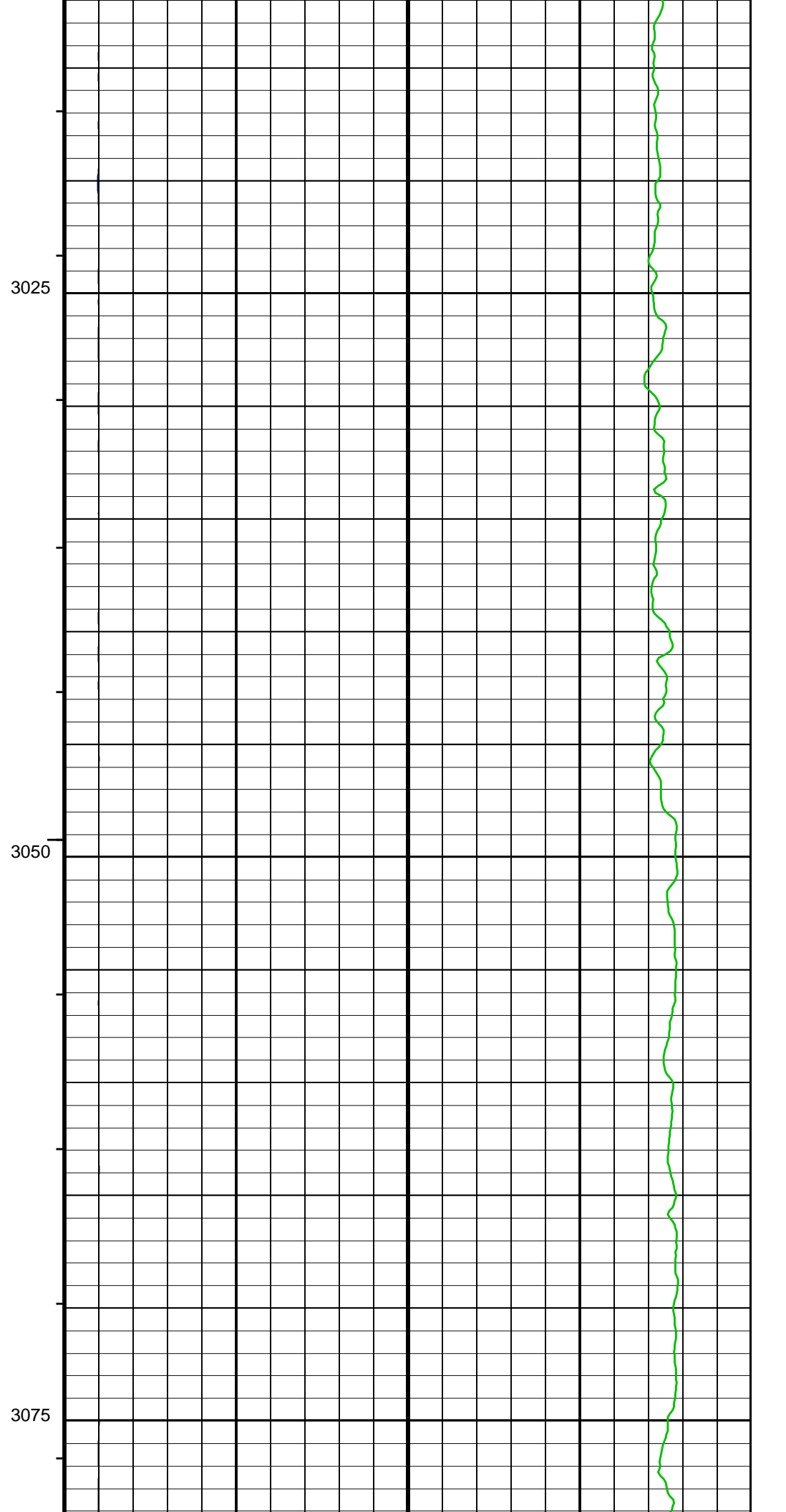
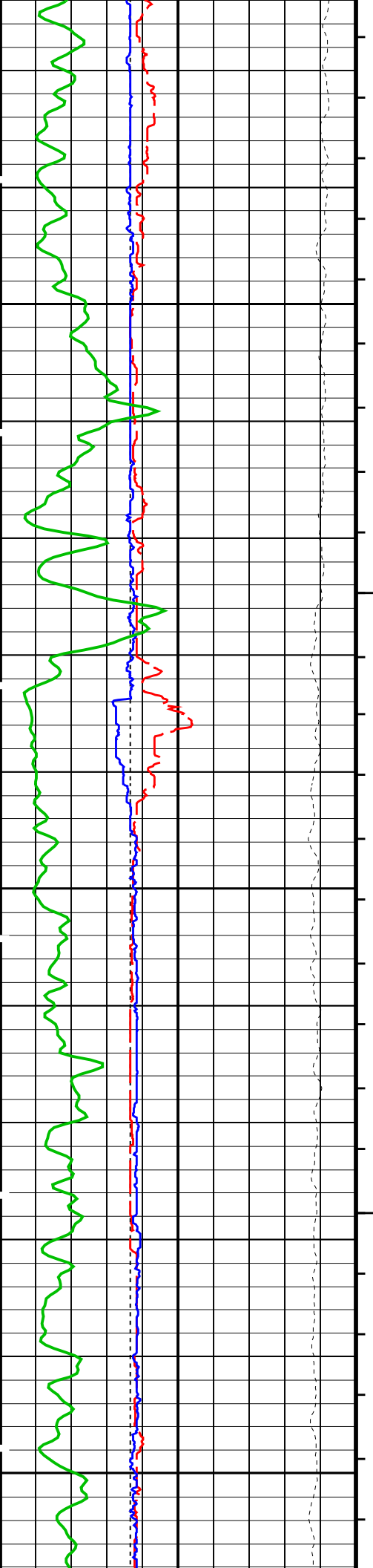


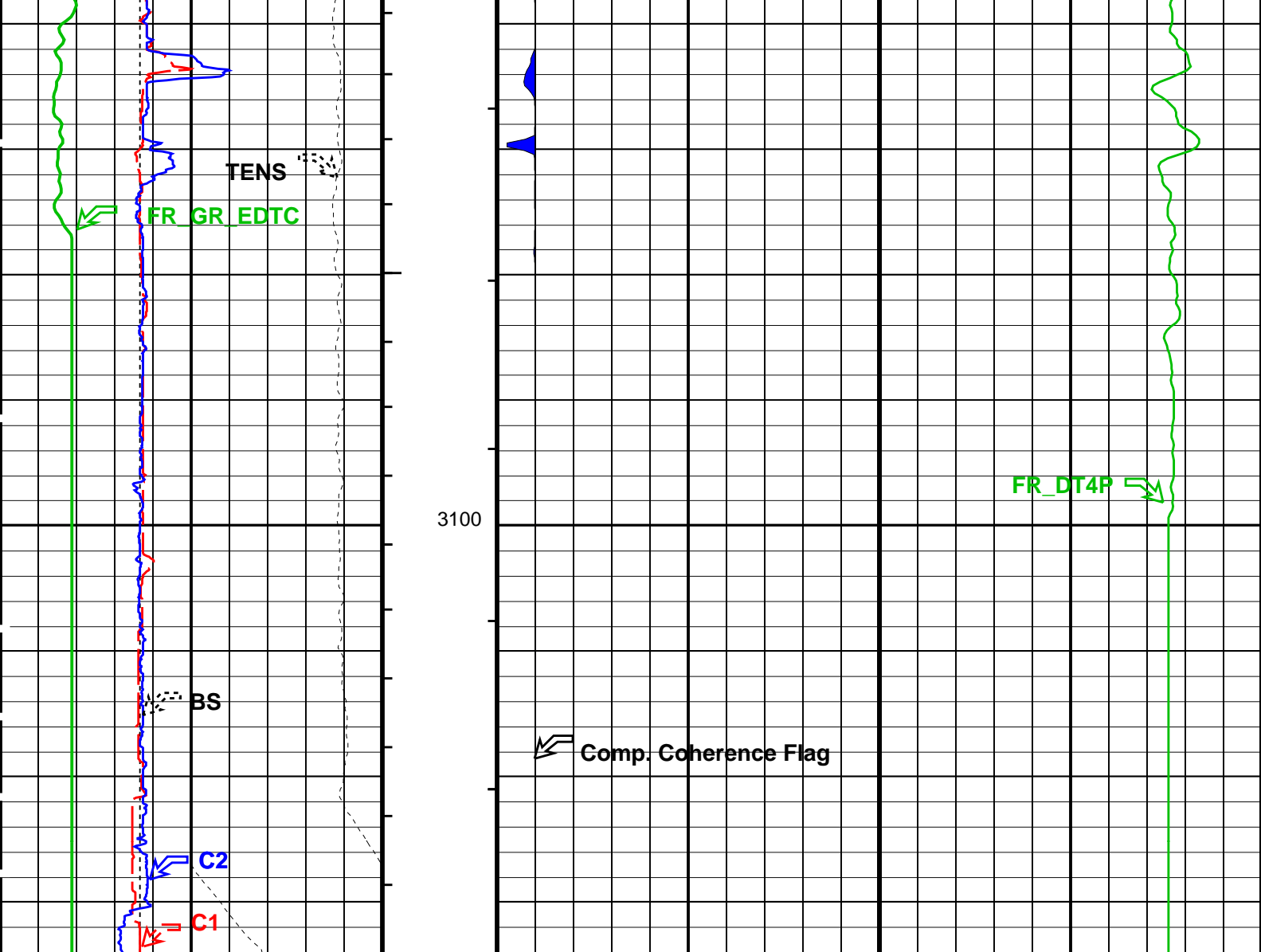
2900

2925









MAIN PASS: DIPOLE SONIC – DELTA-T

Bit Size (BS) (MM)		375	Delta-T Comp – P & S (DT4P) (US/M)		100
125			500		
Caliper 1 (C1) (MM)		375	Low Comp Coherence Flag		
125					
Caliper 2 (C2) (MM)		375			
125					
Gamma Ray (GR_EDTC) (GAPI)		150			
0					
Tension (TENS) 25000 (N)		0			

PIP SUMMARY	
└ Integrated Hole Volume Minor Pip Every 0.1 M3	
└ Integrated Hole Volume Major Pip Every 1 M3	
└ 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
FBST-B: Full-Bore Scanner – B		
ACPP	Accelerometer PROM Presence	PRESENT
AFMC	Accelerometer Filtering Mode	MOVING AVERAGE

AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	20	
ART	Accelerometer Reference Temperature			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		OFF	
FDBP	FMI Dead Buttons Patching		OFF	
FDFL	FMI DSP Filter Length		1	
FIEQ	FMI Image Equalisation		OFF	
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	-20.9531		DEG
MRTE	Magneto Reference Temperature	19		DEGC
RBS	Resistivity Button Selection	AUTO		
RBSI	Auto RBS Change Interval	10		
SOFF	Standoff	0		MM
TEMS	GPIT Temperature Sensor Used	BOTH		
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO		
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)	60.2		DEGC
CASF	Label Casing Function - Monopole P&S	50		
CDTS	C-Delta-T Shale	328.084		US/M
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	131.234		US/M
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	590.551		US/M
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	246.063		US/M
DSHU	Label Slowness Upper Limit - Dipole Shear	2542.65		US/M
DSI1	Digitizer Sample Interval 1	40		US
DSI2	Digitizer Sample Interval 2	40		US
DSI3	Digitizer Sample Interval 3	10		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 DTCS Channel	PS_COMP		
DTF	Delta-T Fluid	670.932		US/M
DTM	Delta-T Matrix	183.727		US/M
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR		
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		
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	131		US/M
FGMX	First Motion Gate Moveout X	131		US/M
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	131.234		US/M
FMRC	Restart Control - FMD	CONTINUE		
FMT5	First Motion Threshold 5	UP		
FMTX	First Motion Threshold X	NONE		

FMUL	Slowness Upper Limit – FMD	590.551	US/M
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	10	
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	20	DEG
GDT1	Gain Delta–T 1	2625	US/M
GDT2	Gain Delta–T 2	2625	US/M
GDT3	Gain Delta–T 3	2625	US/M
GDT4	Gain Delta–T 4	525	US/M
GDT5	Gain Delta–T 5	525	US/M
GDTX	Gain Delta–T X	2625	US/M
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
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	
ISSBAR	Barite Mud Switch	NOBARITE	
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	3962	MM
MAI5	Slowness Averaging Interval – FMD	1067	MM
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCS	Mean Casing Slowness	187.008	US/M
MDS5	Multishot Delta–T Scatter – FMD	20	US
MTXG	Monopole Transmitter Geometry	4724	MM
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	
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	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
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	OFF	

SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	ON	
		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	246.063	US/M
SHT	Surface Hole Temperature	30	DEGC
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SLL1	STC Slowness Lower Limit – Lower Dipole	246.063	US/M
SLL2	STC Slowness Lower Limit – Upper Dipole	246.063	US/M
SLL3	STC Slowness Lower Limit – Monopole Stoneley	590.551	US/M
SLL4	STC Slowness Lower Limit – Monopole P&S	131.234	US/M
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
SST1	STC Slowness Step – Lower Dipole	13.1234	US/M
SST2	STC Slowness Step – Upper Dipole	13.1234	US/M
SST3	STC Slowness Step – Monopole Stoneley	13.1234	US/M
SST4	STC Slowness Step – Monopole P&S	6.56168	US/M
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	590.551	US/M
STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL1	STC Slowness Upper Limit – Lower Dipole	2542.65	US/M
SUL2	STC Slowness Upper Limit – Upper Dipole	2542.65	US/M
SUL3	STC Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL4	STC Slowness Upper Limit – Monopole P&S	787.402	US/M
SWD1	STC Slowness Width – Lower Dipole	131.234	US/M
SWD2	STC Slowness Width – Upper Dipole	131.234	US/M
SWD3	STC Slowness Width – Monopole Stoneley	131.234	US/M
SWD4	STC Slowness Width – Monopole P&S	32.8084	US/M
TBDB	Tool String Bottom to DSST Bottom	10030.5	MM
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	23716	MM
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	5110	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	179	
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

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	0	
TWS4	Transmitter Waveform Select 4	6	
TWS5	Transmitter Waveform Select 5	6	
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	4115	MM
WFDTSP1	SAM1 Waveform Delta for Spectrum	0	US/M
WFDTSP2	SAM2 Waveform Delta for Spectrum	0	US/M
WFDTSP3	SAM3 Waveform Delta for Spectrum	0	US/M
WFDTSP4	SAM4 Waveform Delta for Spectrum	0	US/M
WFDTSPX	SAMX Waveform Delta for Spectrum	0	US/M
WFLSP1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLSP2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLSP3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLSP4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLSPX	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	DLO	
XMT2	Transmitter Select 2	DUP	
XMT3	Transmitter Select 3	NONE	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	DUP	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
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	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	30	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
FCD	Future Casing (Outer) Diameter	177.8	MM
GCSE	Generalized Caliper Selection	BS	
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	C1/C2	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	30	DEGC

STI: Stuck Tool Indicator		Trigger for MAXIS First Reading Label	TDL	
LBFR		STI Stuck Threshold	1.5	M
STKT		Total Depth – Driller	3160.00	M
TDD		Total Depth – Logger	3129.20	M
TDL				
DIP: Dip Computation				
		DIP Tool	FBST	
CSBL		CSB DIP Number of Levels	2L	
DPAD		Disabled Pad	NONE	
ELRA		Electrical Radius	12.7	MM
INT		Correlation Interval	1.2192	M
SANG		Correlation Search Angle	35	DEG
SBUT		DIP Set of Buttons	MSD	
SDFA		Side-by-Side Distance Factor	22.86	MM
SPAN		DIP Spanning	1/4	
STDA		Structural DIP Azimuth	0	DEG
STDI		Structural DIP Angle	0	DEG
STEP		Correlation Step	0.6096	M
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	0	M
TIND		North Departure of Tie-in Point	0	M
TIVD		TVD of Tie-in Point	0	M
System and Miscellaneous				
ALTDPC	CHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS		Bit Size	216.000	MM
BSAL		Borehole Salinity	-50000.00	PPM
CSIZ		Current Casing Size	244.500	MM
CWEI		Casing Weight	64.74	KG/M
DFD		Drilling Fluid Density	1170.00	K/M3
DO		Depth Offset for Playback	0.0	M
FLEV		Fluid Level	0.00	M
MST		Mud Sample Temperature	15.00	DEGC
PBVSADP		Use alternate depth channel for playback	NO	
PP		Playback Processing	RECOMPUTE	
RMFS		Resistivity of Mud Filtrate Sample	1.2300	OHMM
RW		Resistivity of Connate Water	1.0000	OHMM
TD		Total Depth	3129.2	M
TWS		Temperature of Connate Water Sample	37.78	DEGC

Format: DSI_DTSONIC_D240 Vertical Scale: 1:240 Graphics File Created: 20-May-2010 01:24

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

Input DLIS Files

DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
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Output DLIS Files

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CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24

Schlumberger

Sonic P & S
1:240

MAXIS Field Log

Input DLIS Files

Output DLIS Files

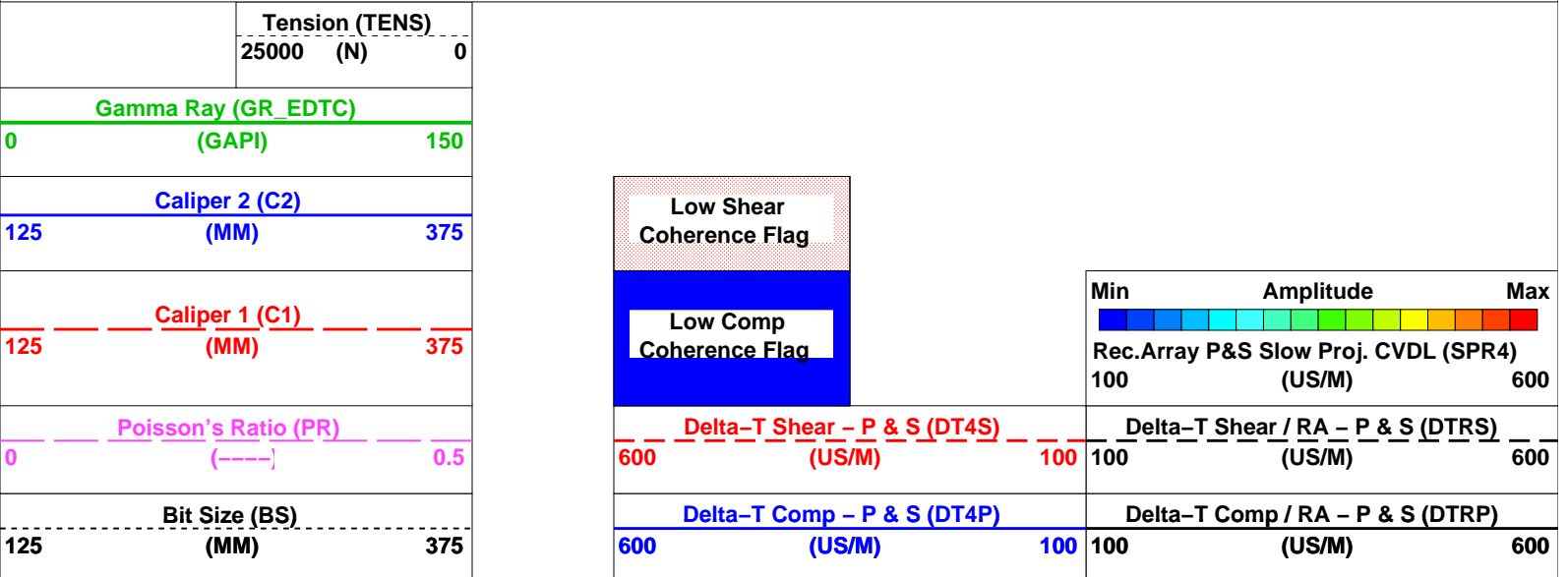
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CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24

OP System Version: 17C0-154

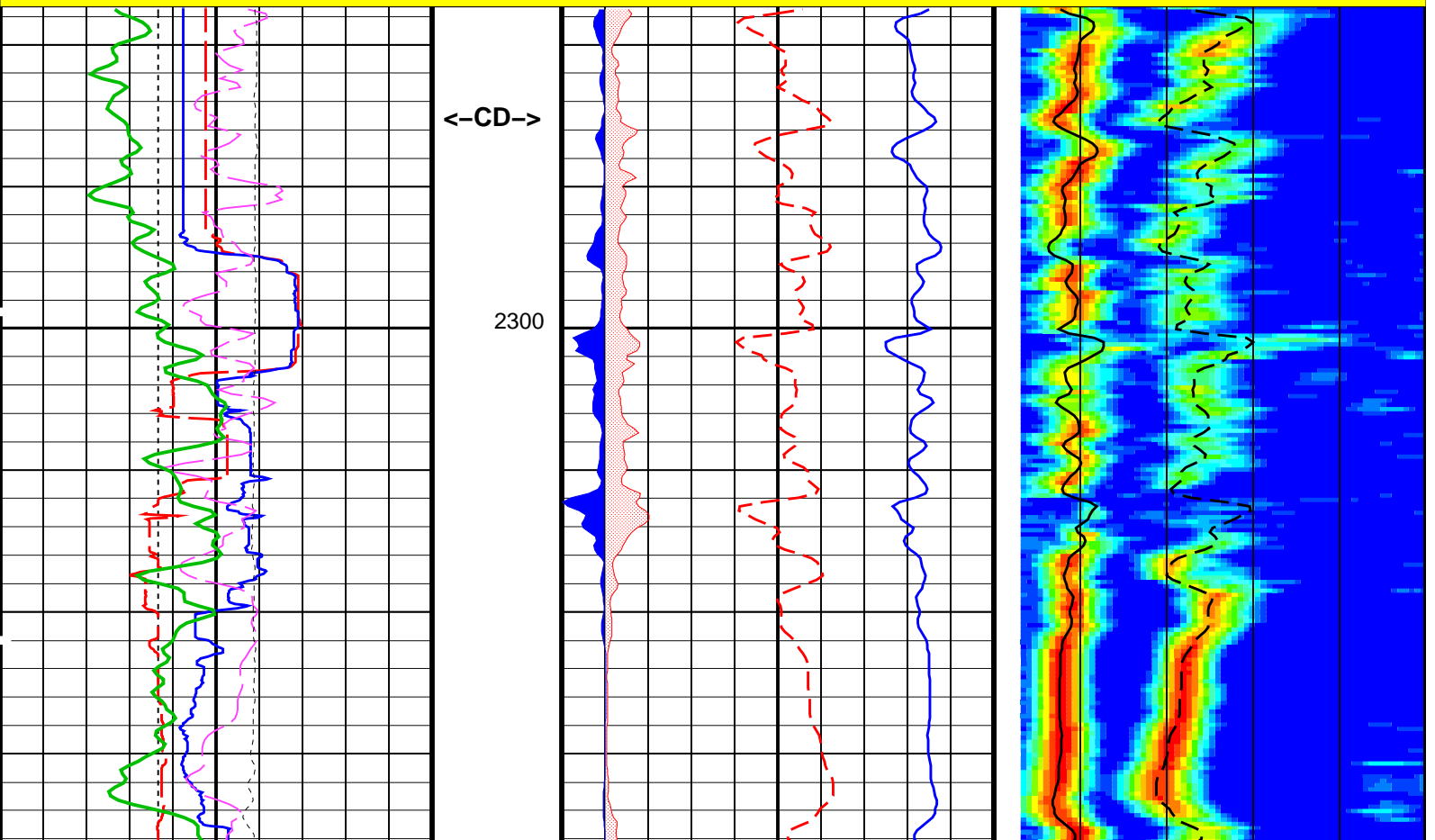
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DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

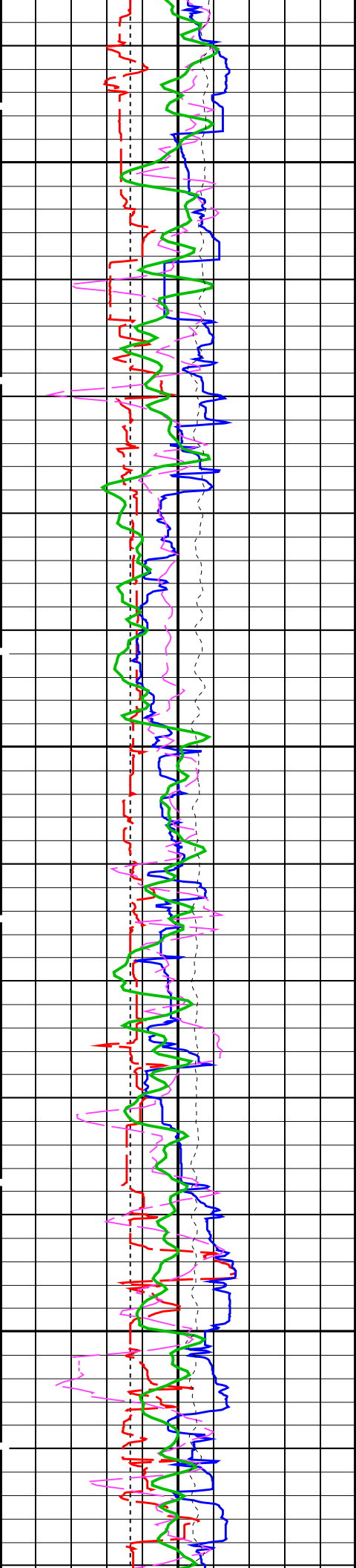
PIP SUMMARY

Time Mark Every 60 S



MAIN PASS: DIPOLE SONIC – P & S IMAGE

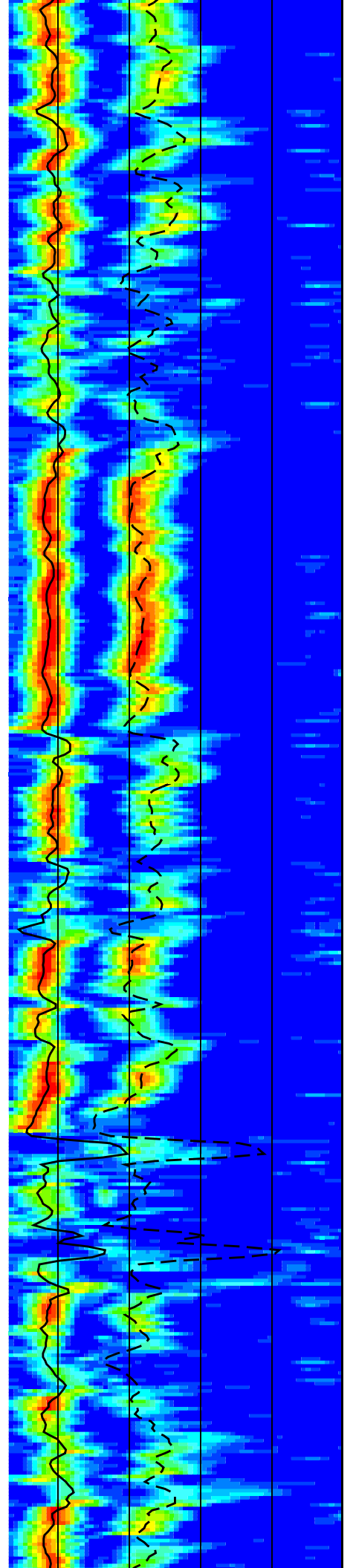
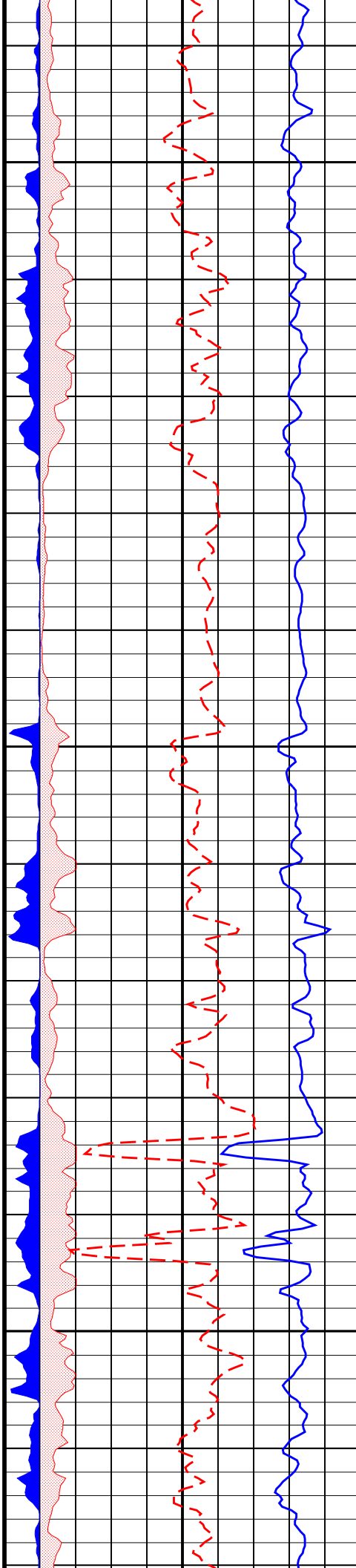


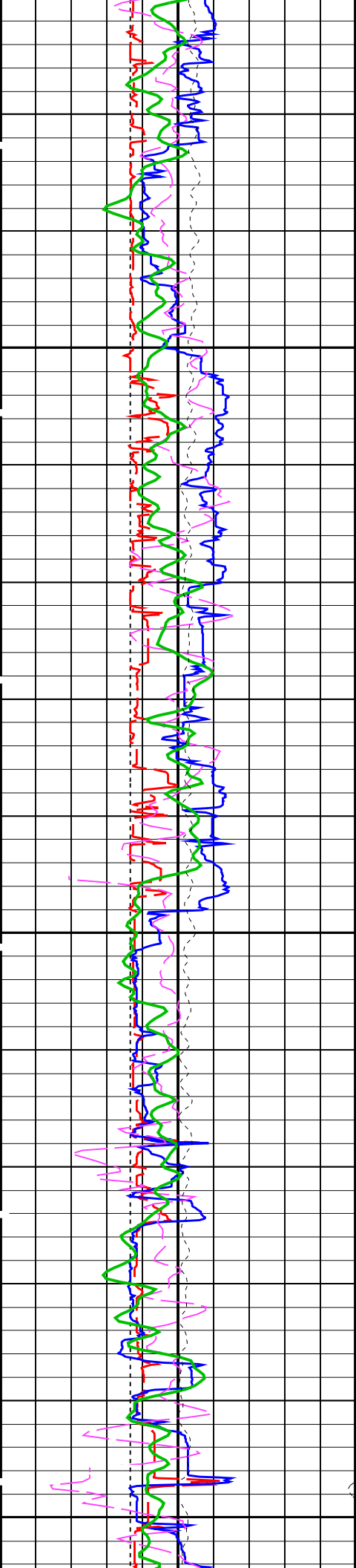


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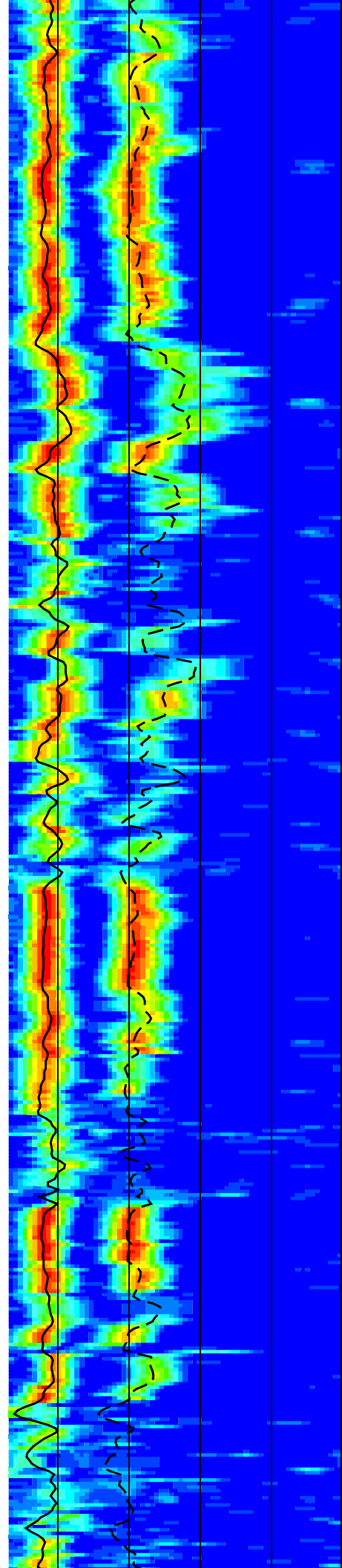
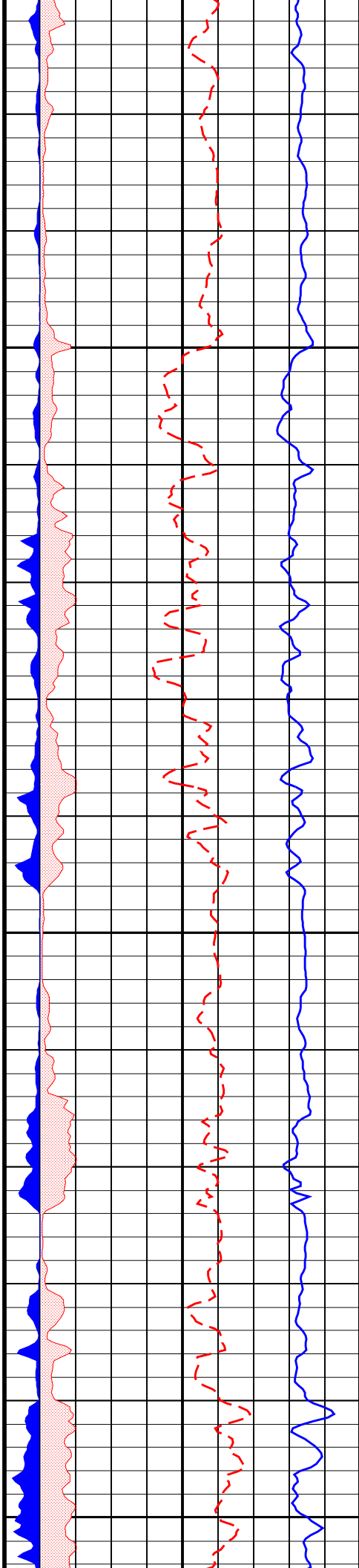


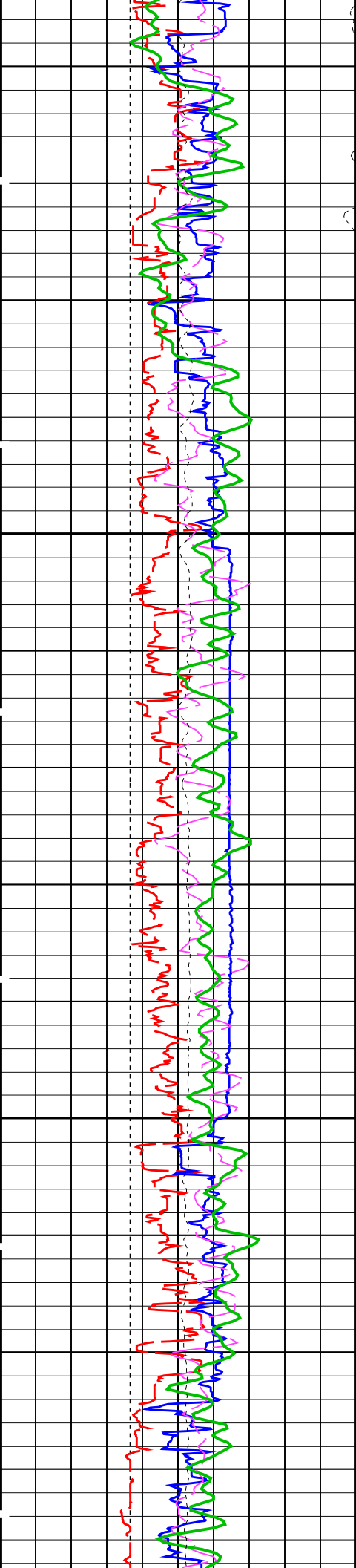


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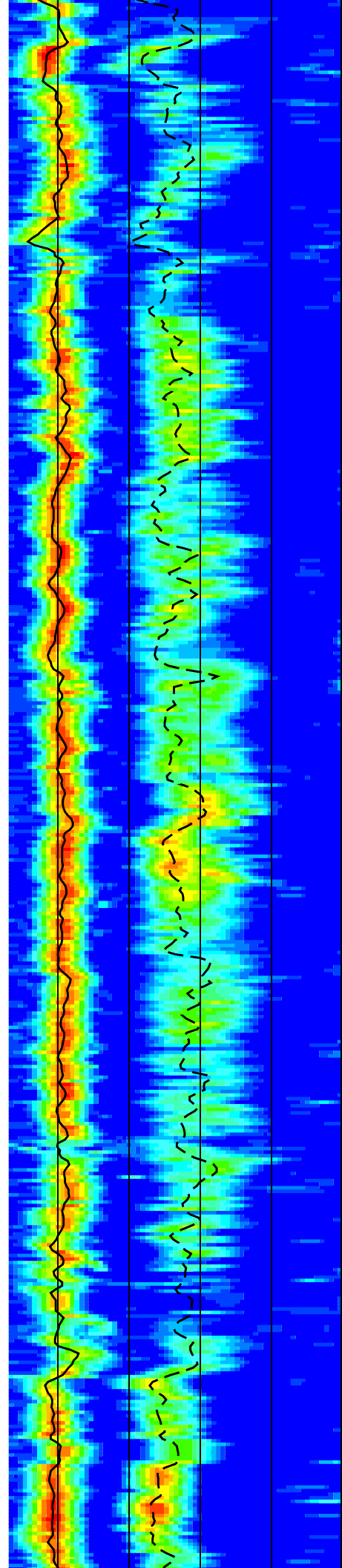
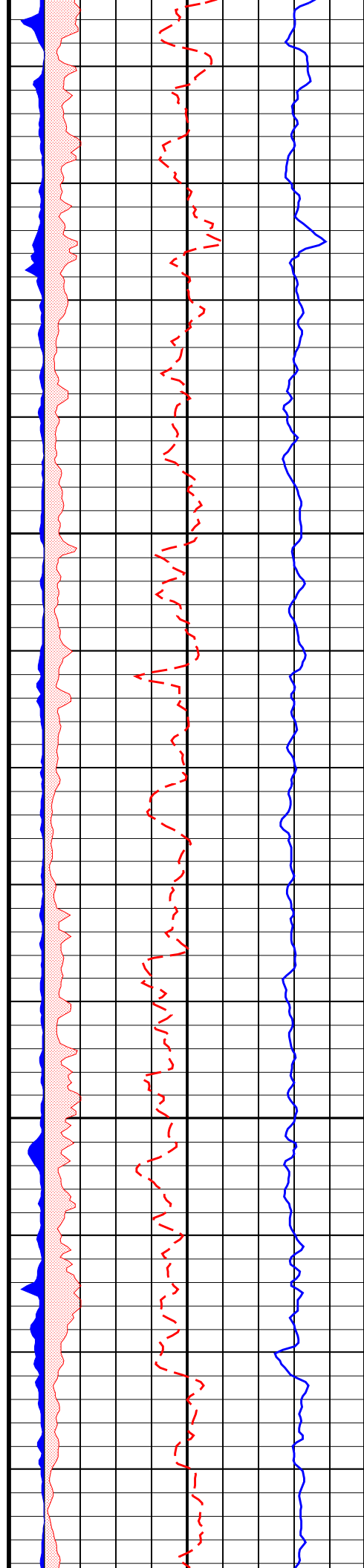
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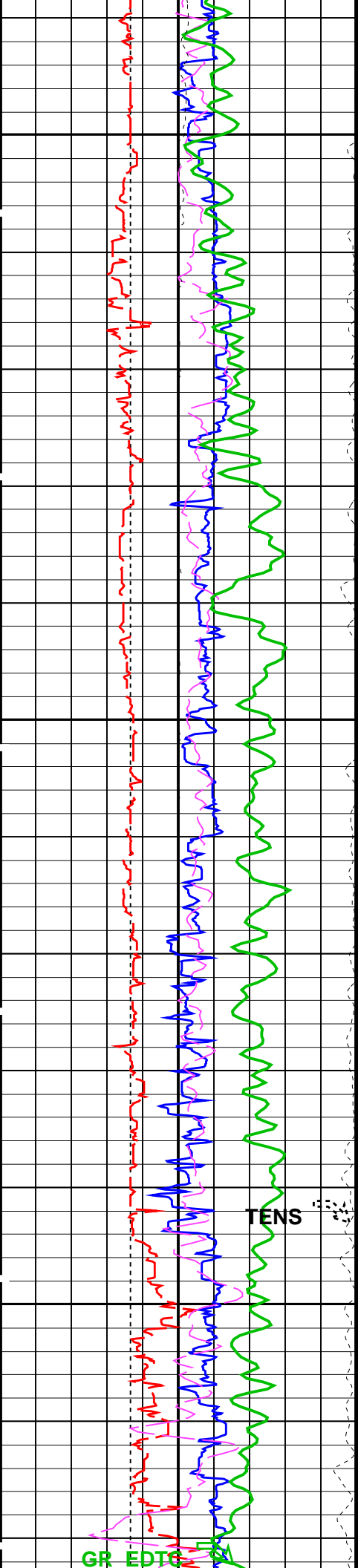




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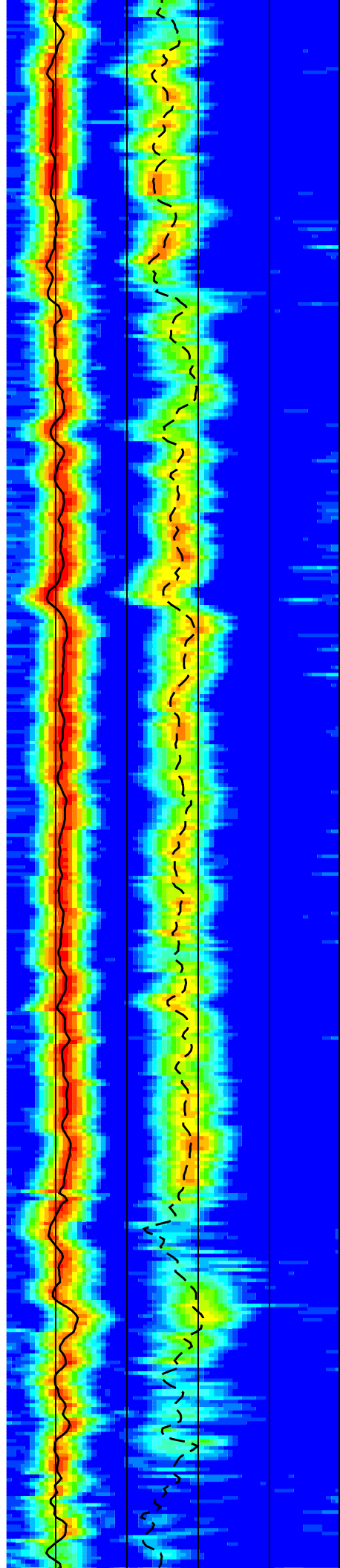
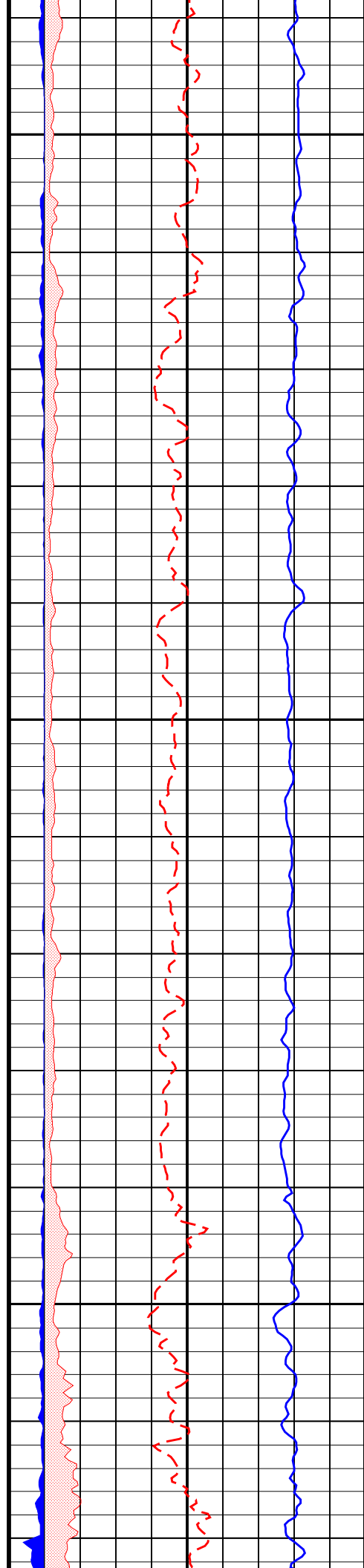


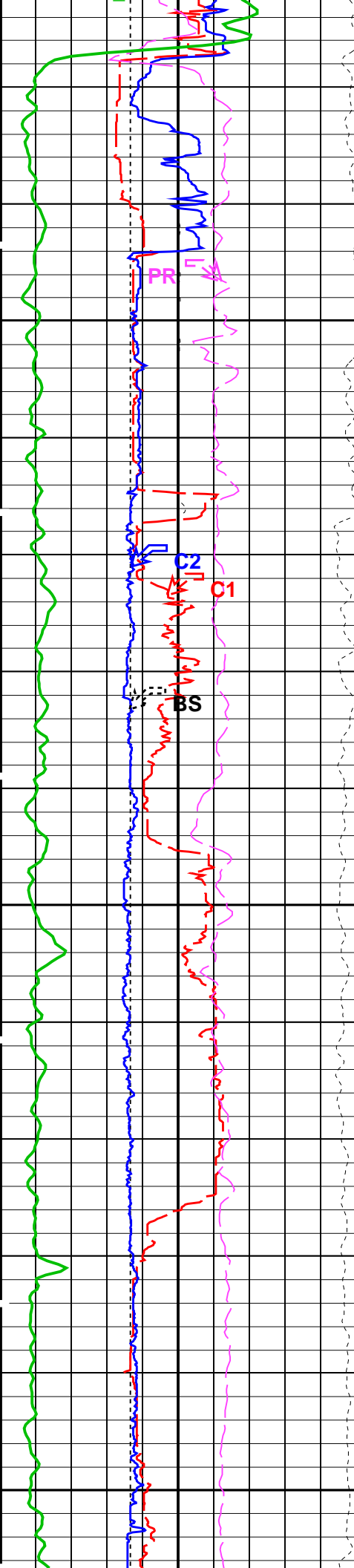


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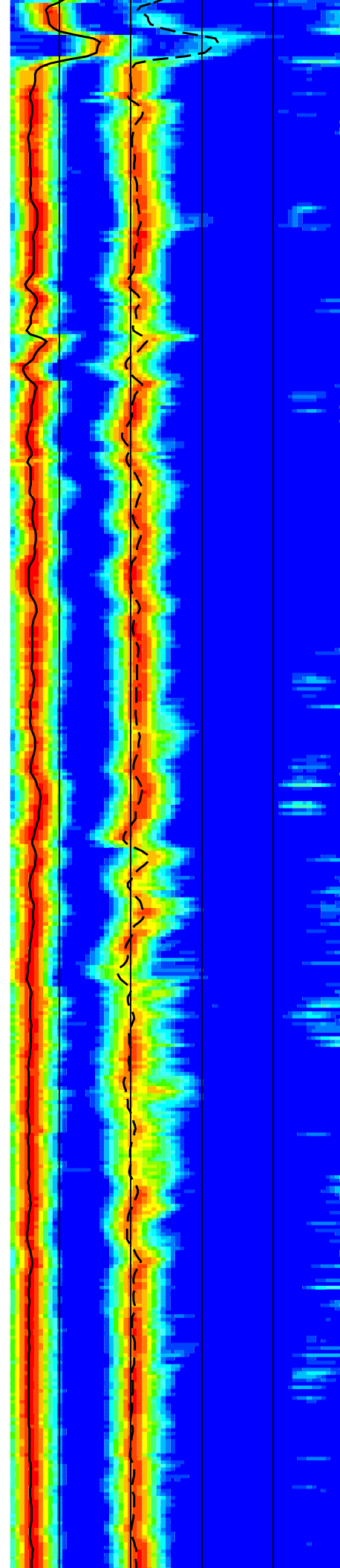
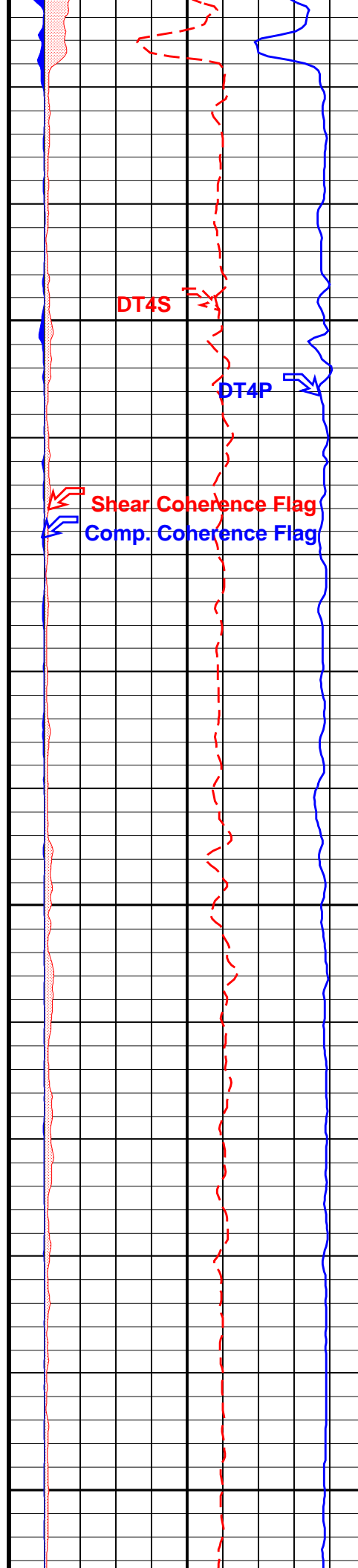


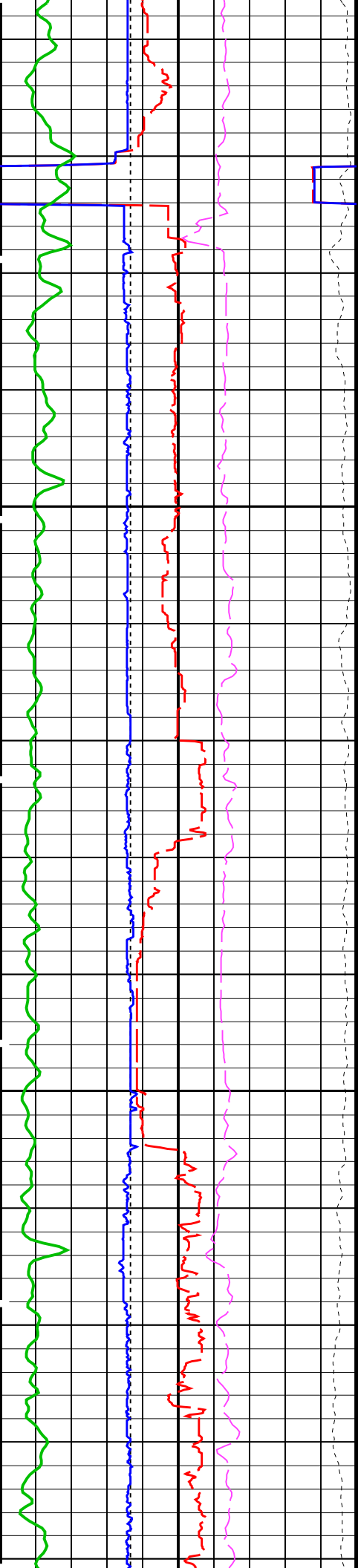


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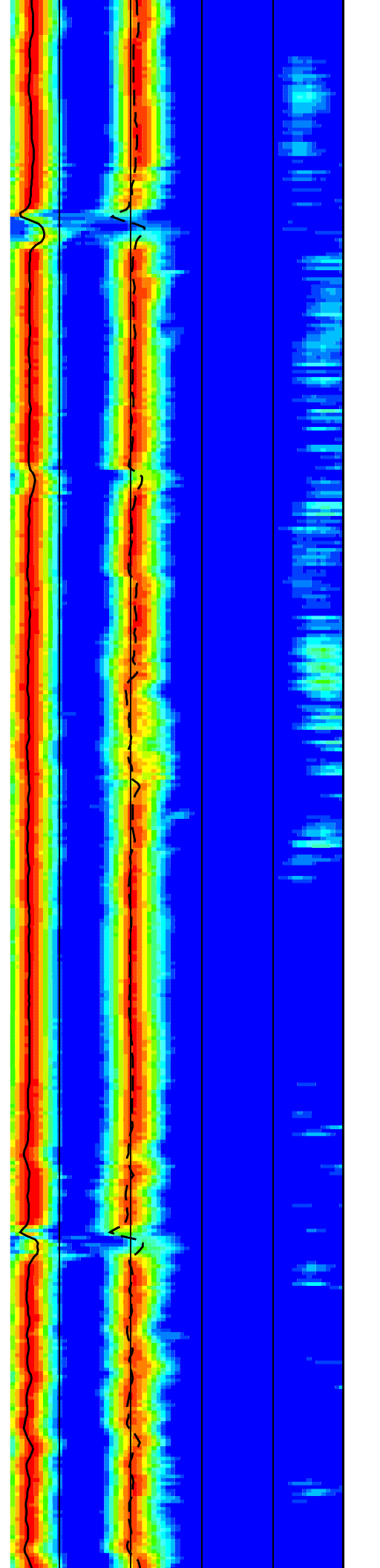
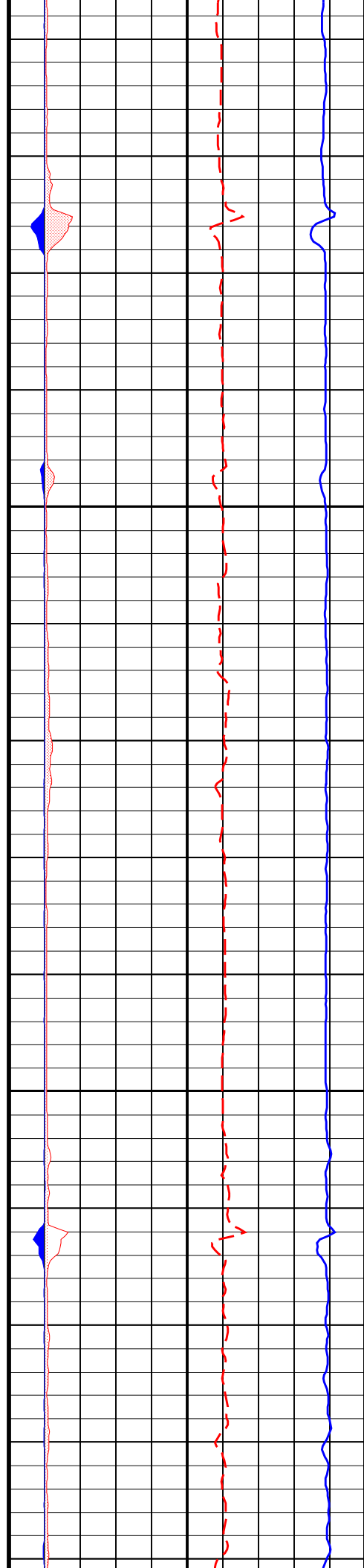
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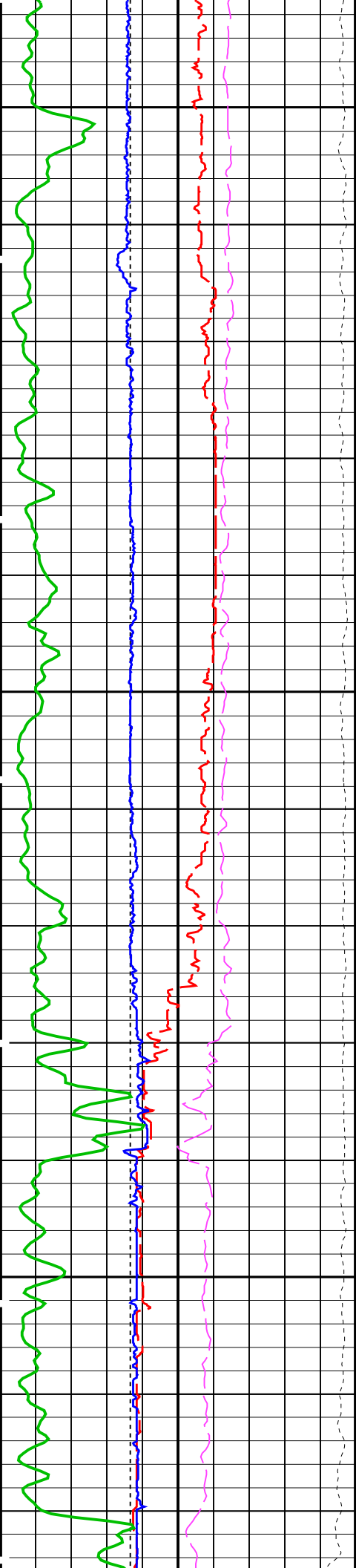




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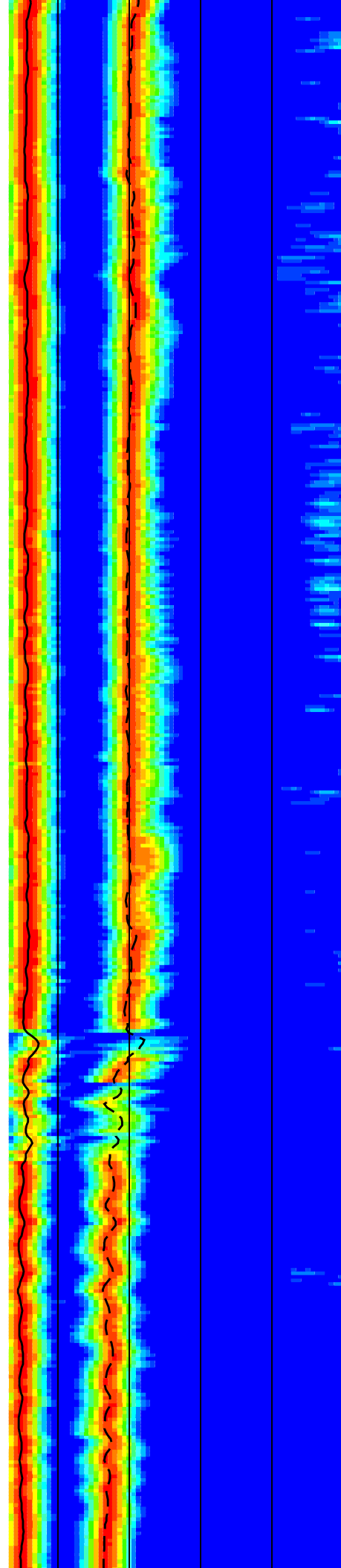
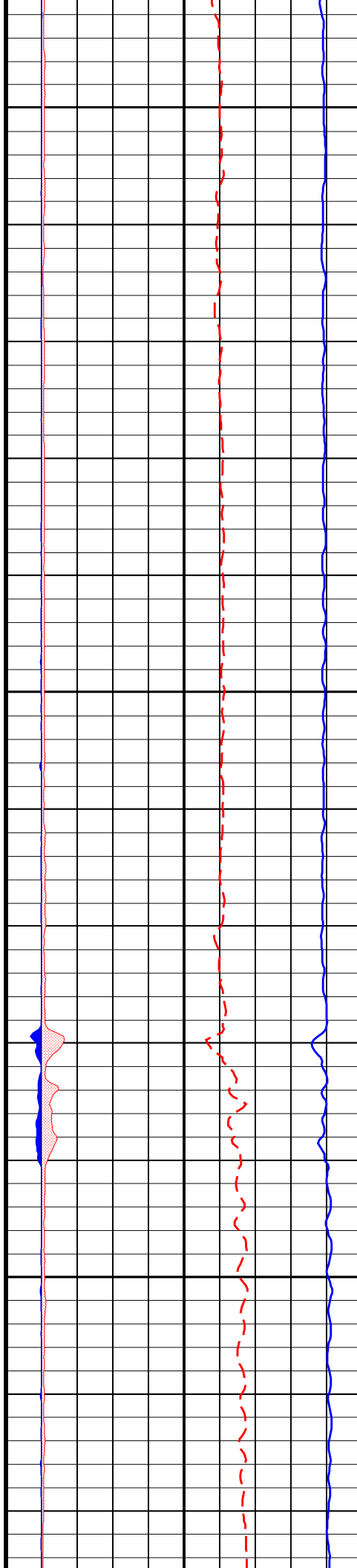


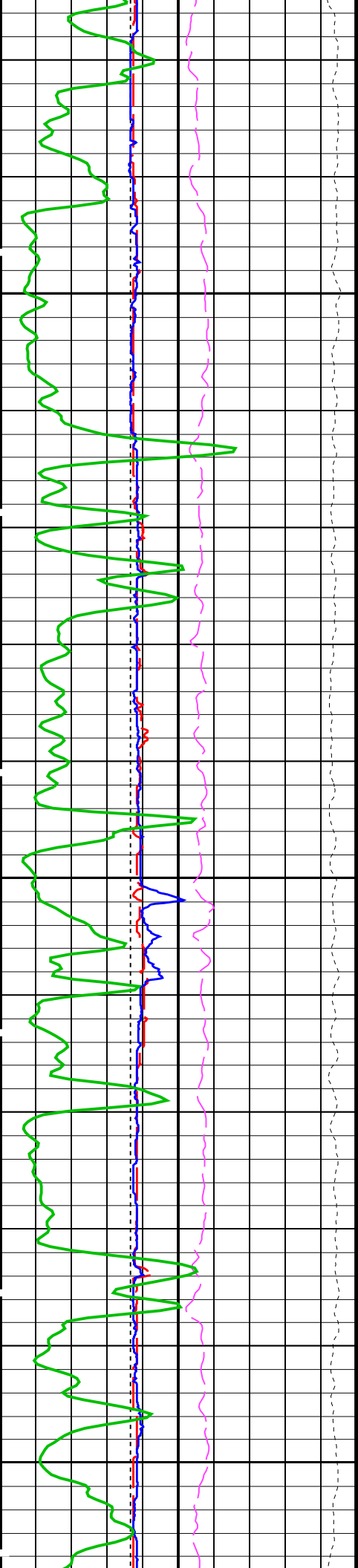


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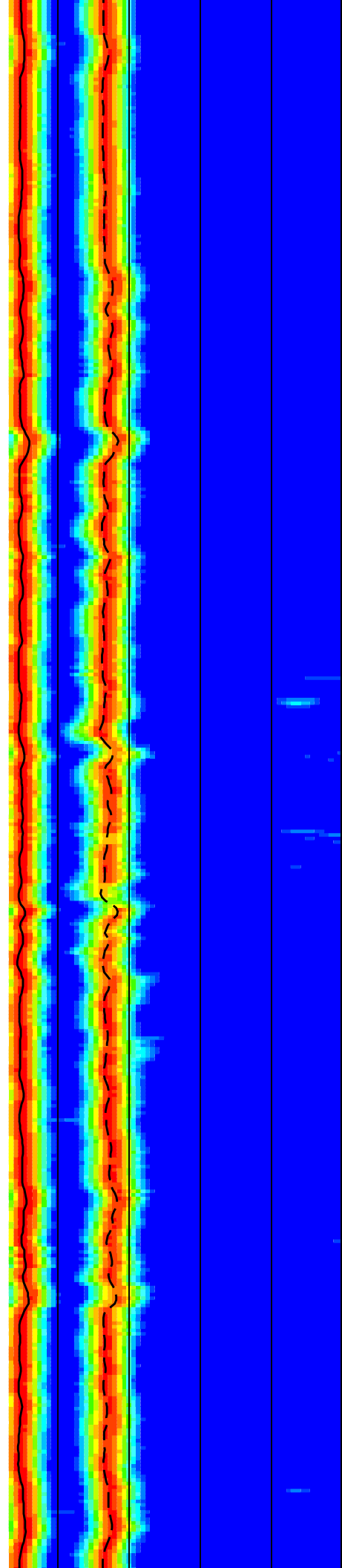
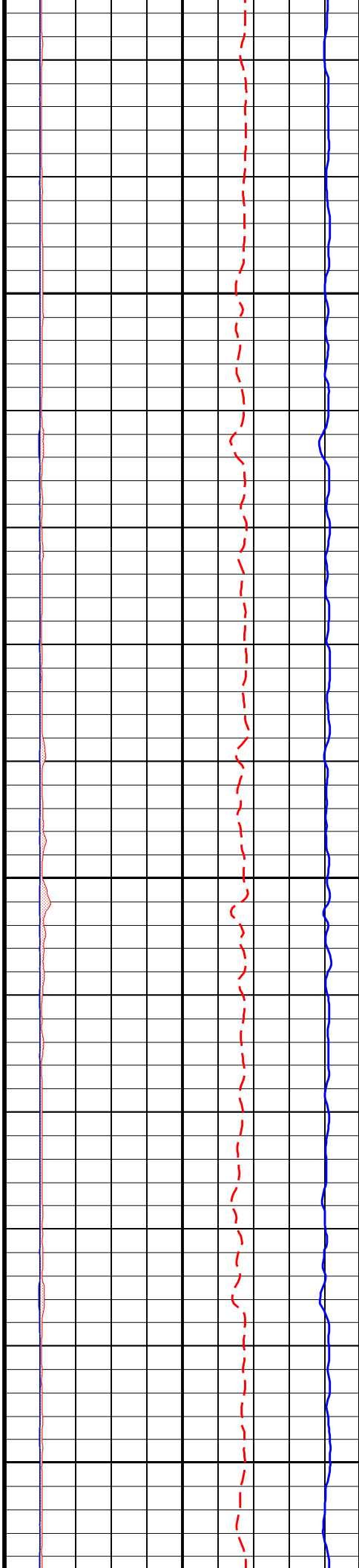


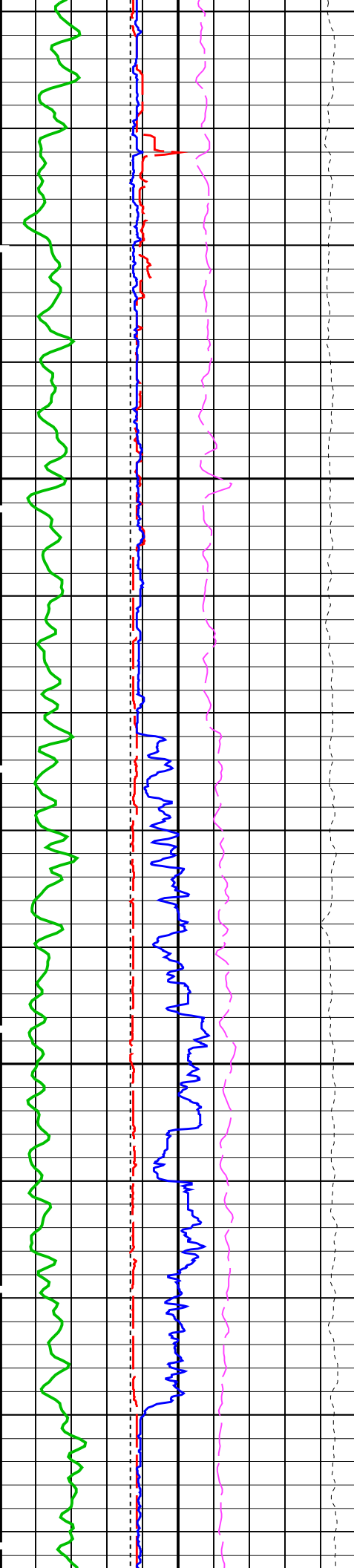


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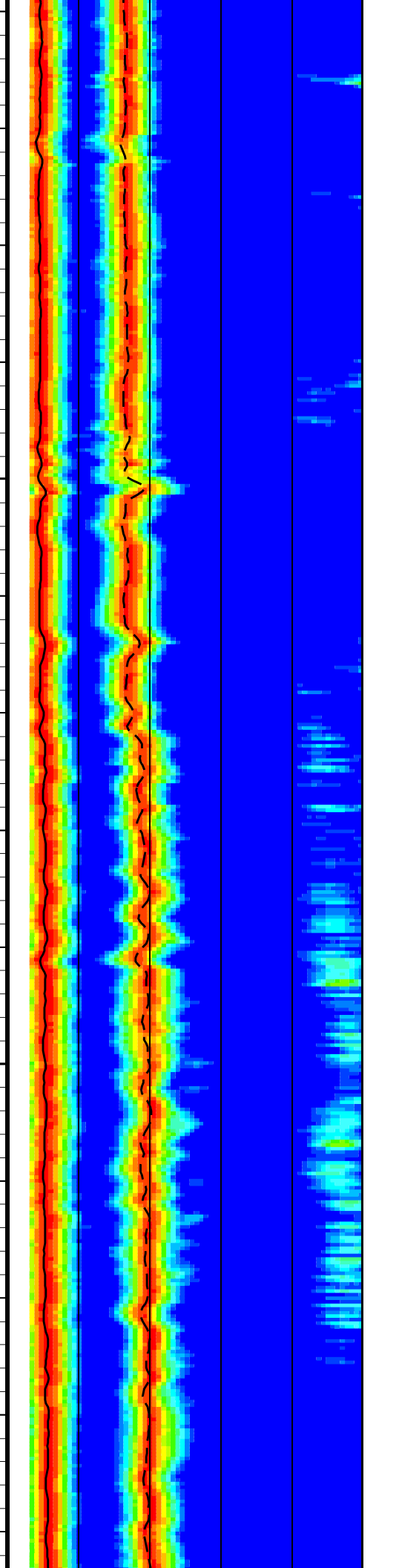
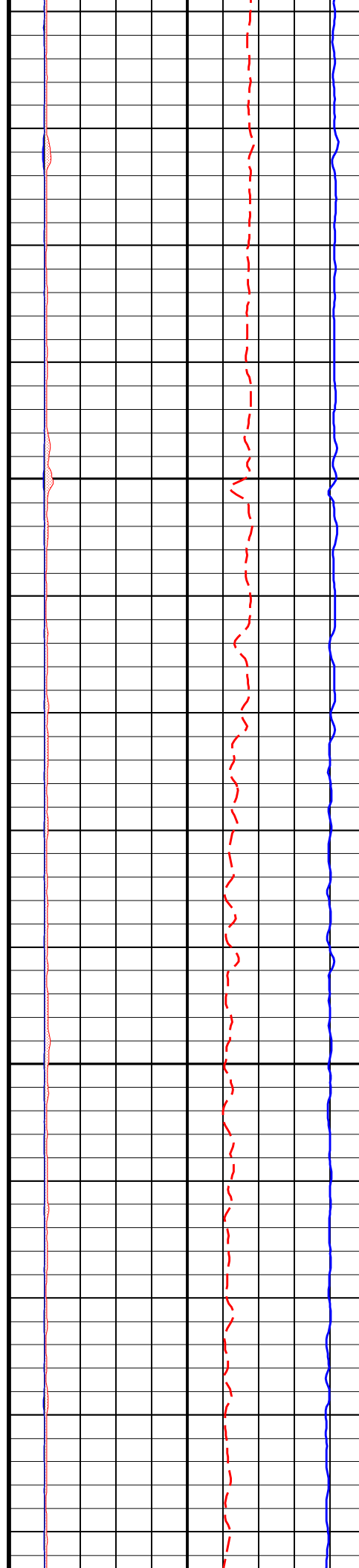
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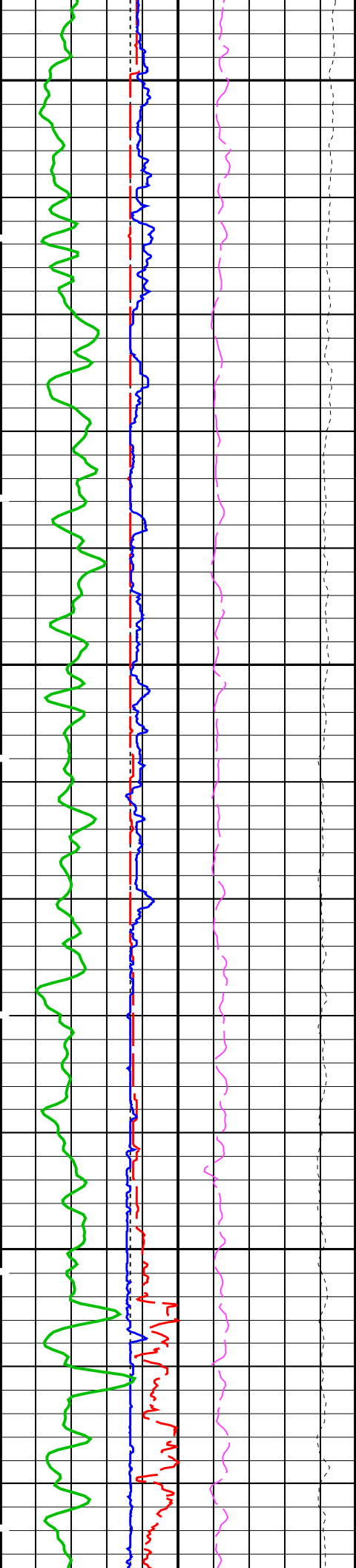




2875

2900

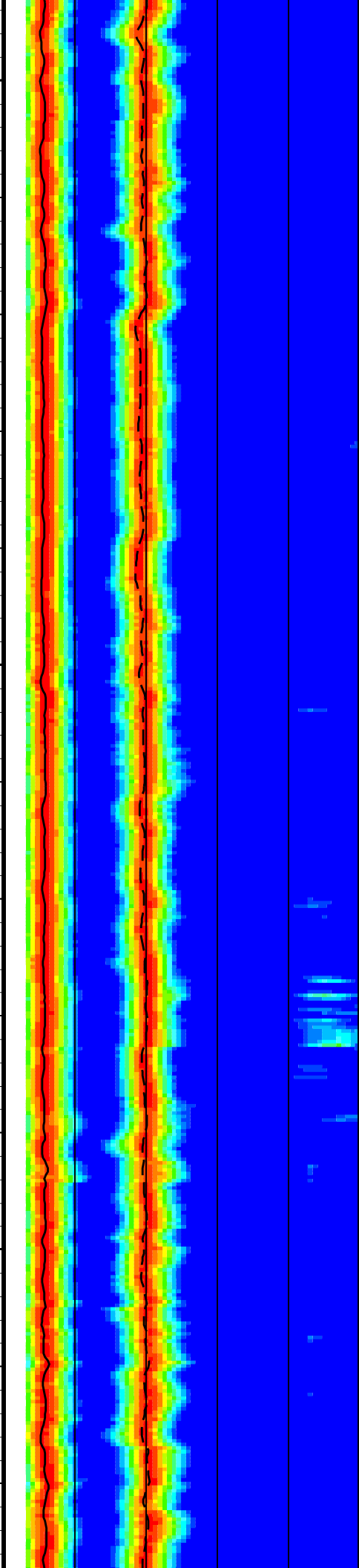
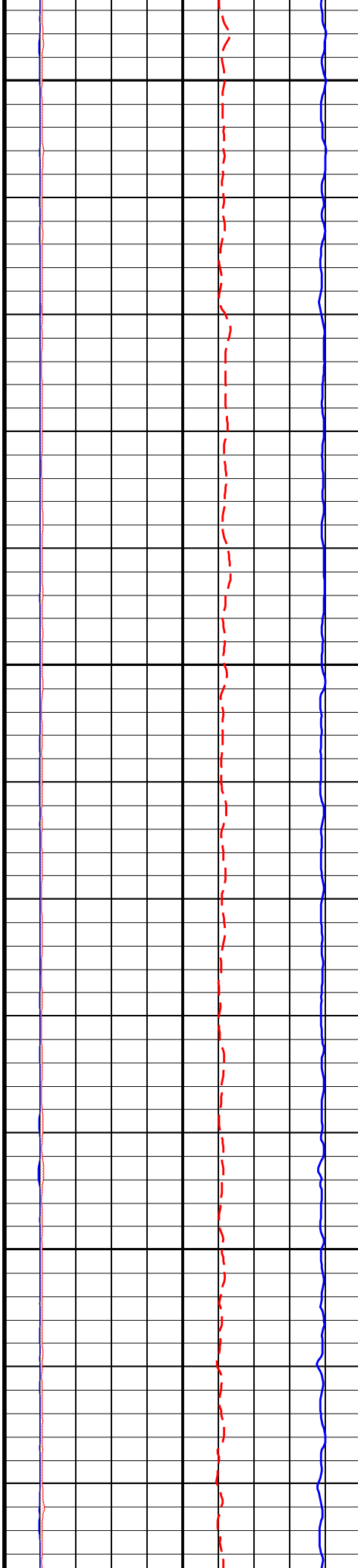


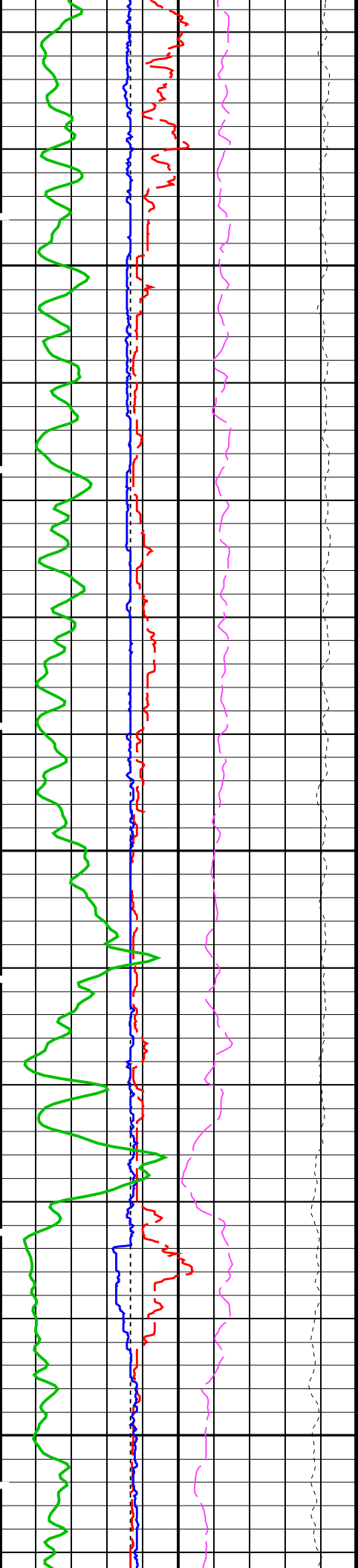


2925

2950

2975

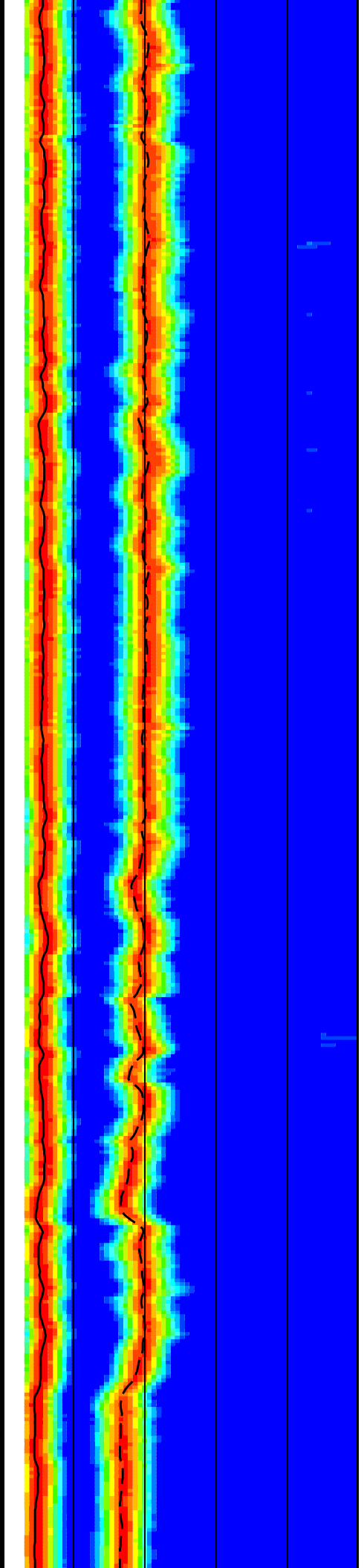
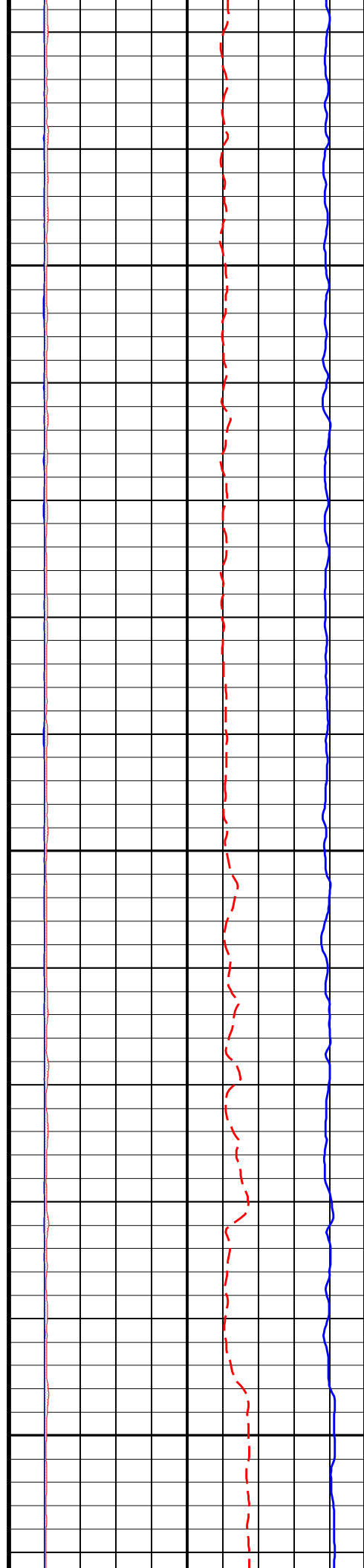


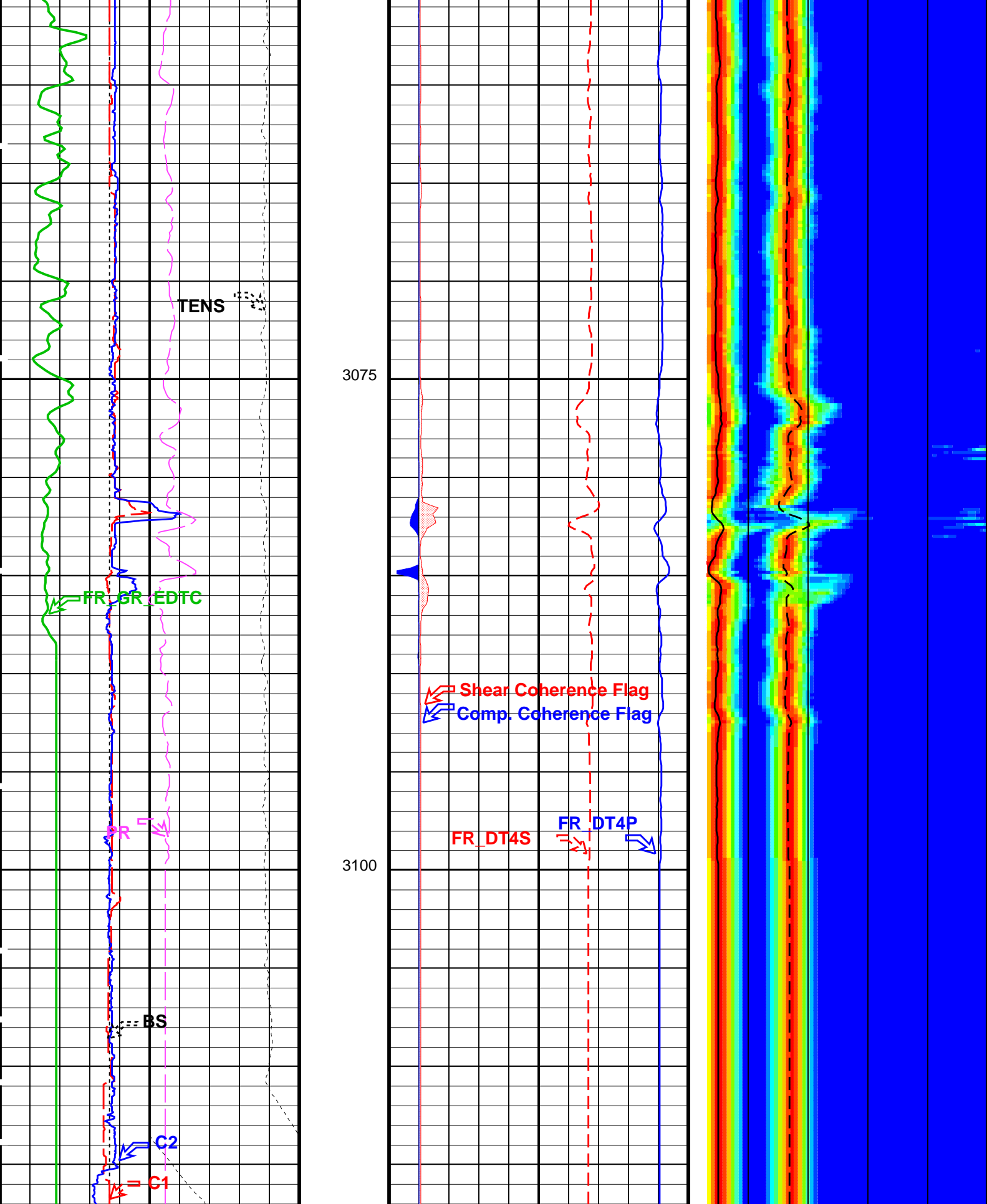


3000

3025

3050





MAIN PASS: DIPOLE SONIC - P & S IMAGE

Bit Size (BS)		Delta-T Comp - P & S (DT4P)		Delta-T Comp / RA - P & S (DTRP)	
125	375	600	100	100	600
(MM)		(US/M)		(US/M)	
Poisson's Ratio (PR)		Delta-T Shear - P & S (DT4S)		Delta-T Shear / RA - P & S (DTRPS)	

Poisson's Ratio (PR)		Delta-T Shear-T P & S (DTSS)		Delta-T Shear-T P & S (DTSS)		
0	(-----)	0.5	600	(US/M)	100	
Caliper 1 (C1)		Low Comp Coherence Flag		Min Amplitude Max		
125	(MM)			375	Rec.Array P&S Slow Proj. CVDL (SPR4)	
Caliper 2 (C2)				100 (US/M) 600		
125	(MM)	375	Low Shear Coherence Flag			
Gamma Ray (GR_EDTC)						
0	(GAPI)	150				
Tension (TENS)						
25000	(N)	0				

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	131.234	US/M
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	590.551	US/M
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	670.932	US/M
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	187.008	US/M
MTXG	Monopole Transmitter Geometry	4724	MM
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
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	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	246.063	US/M
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SLL4	STC Slowness Lower Limit – Monopole P&S	131.234	US/M
SST4	STC Slowness Step – Monopole P&S	6.56168	US/M
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	590.551	US/M
STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL4	STC Slowness Upper Limit – Monopole P&S	787.402	US/M
SWD4	STC Slowness Width – Monopole P&S	32.8084	US/M
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	

BHS	EDTC-B: Enhanced DTC Cartridge	Borehole Status	OPEN
BHS	HOLEV: Integrated Hole/Cement Volume	Borehole Status	OPEN
SPVD	DIR: Directional Survey Computation	TVD of Starting Point	0 M
TIMD		Along-hole depth of Tie-in Point	0 M
TIVD		TVD of Tie-in Point	0 M
BS	System and Miscellaneous	Bit Size	216.000 MM
DO		Depth Offset for Playback	0.0 M
PP		Playback Processing	RECOMPUTE

Format: DSI_P&S_MODE Vertical Scale: 1:240 Graphics File Created: 20-May-2010 01:24

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

Input DLIS Files

DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_230PUP	FN:36	PRODUCER	20-May-2010 01:24
CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24

Schlumberger

Dipole 1:240

MAXIS Field Log

Input DLIS Files

DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_230PUP	FN:36	PRODUCER	20-May-2010 01:24
CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

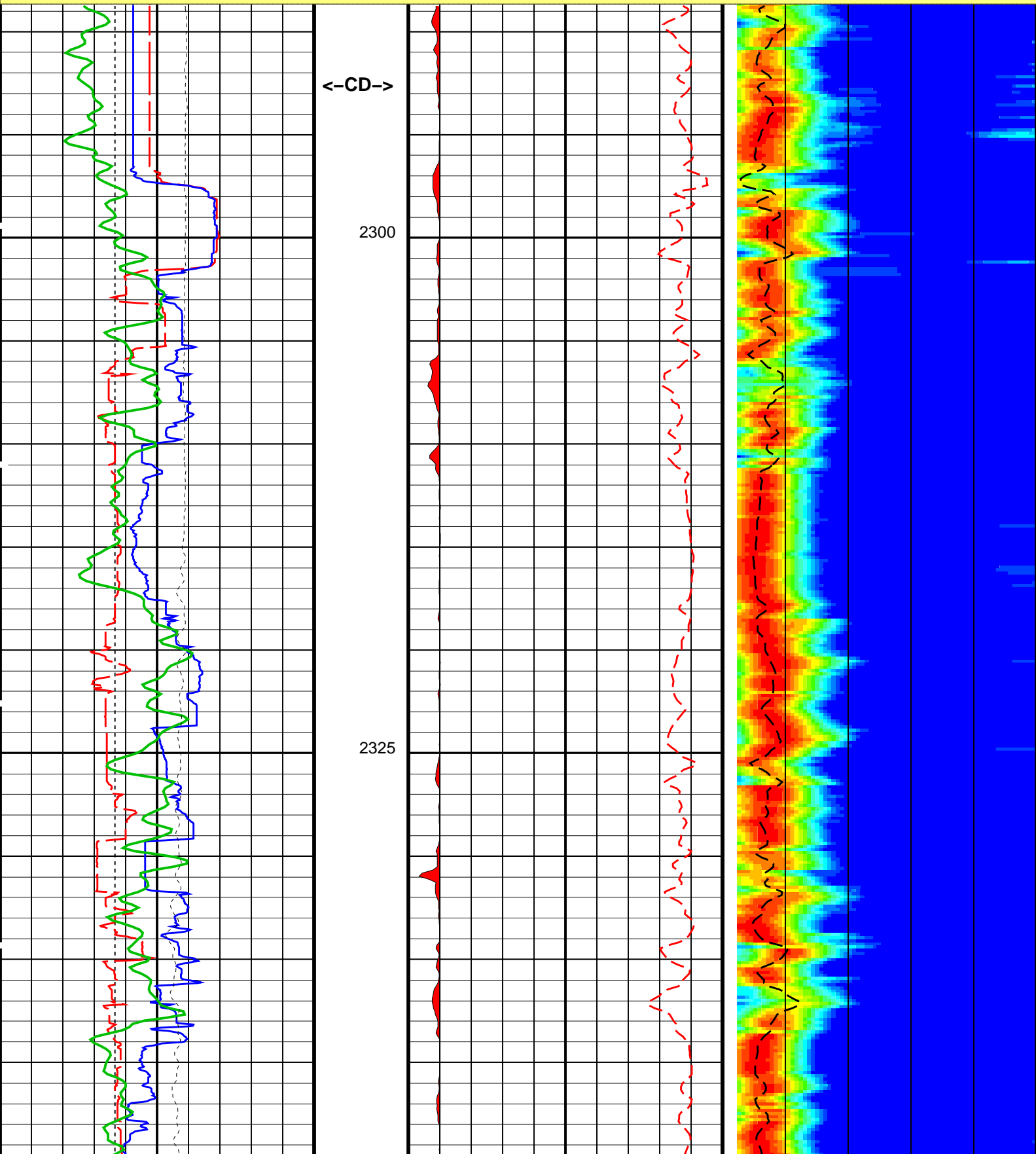
PIP SUMMARY

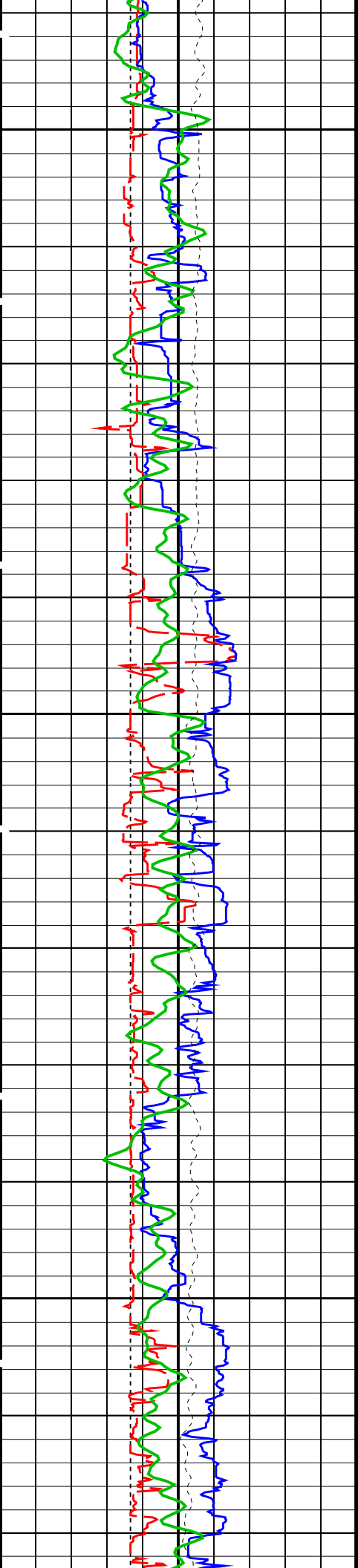
Time Mark Every 60 S

	Tension (TENS)	
25000	(N)	0
Gamma Ray (GR_EDTC)		
0	(GAPI)	150
Caliper 2 (C2)		
125	(MM)	375

<div>Caliper 1 (C1)</div> <div>(MM)</div> <div>125375</div>	<div>Low Shear Coherence Flag</div>	<div>MinAmplitudeMax</div> <div>Rec.Array L.Dipole Slow Proj. CVDL</div> <div>(SPR1)</div> <div>2001200</div> <div>(US/M)</div>
<div>Bit Size (BS)</div> <div>(MM)</div> <div>125375</div>	<div>Delta-T Shear - Lower Dipole (DT1)</div> <div>(US/M)</div> <div>1200200</div>	<div>Delta-T Shear / RA - Lower Dipole</div> <div>(DT1R)</div> <div>2001200</div> <div>(US/M)</div>

MAIN PASS: DIPOLE SONIC - LOWER DIPOLE IMAGE

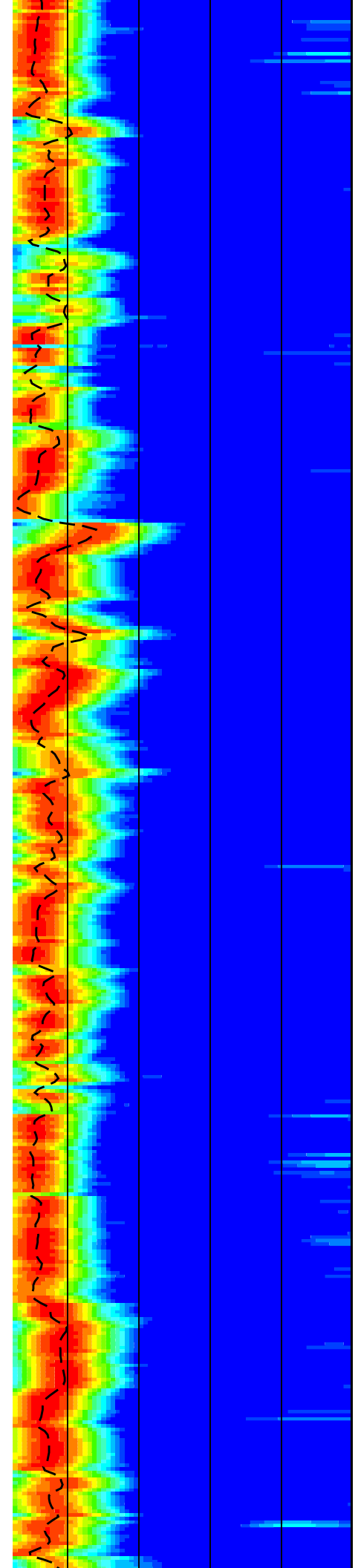
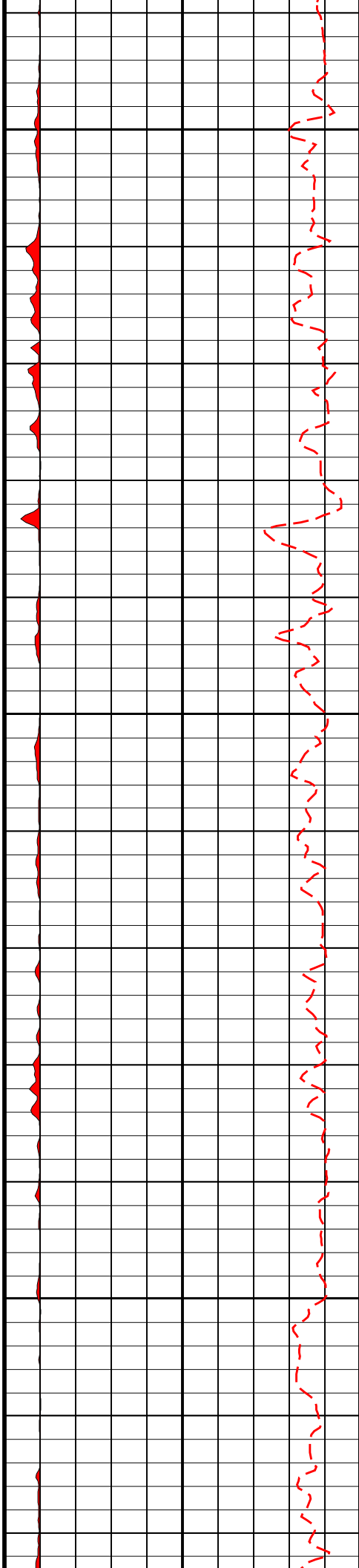


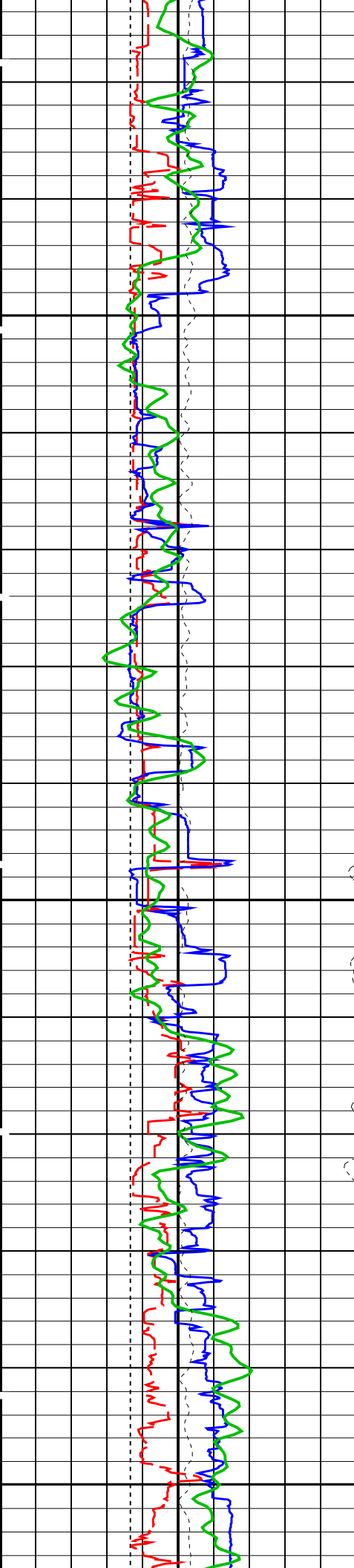


2350

2375

2400

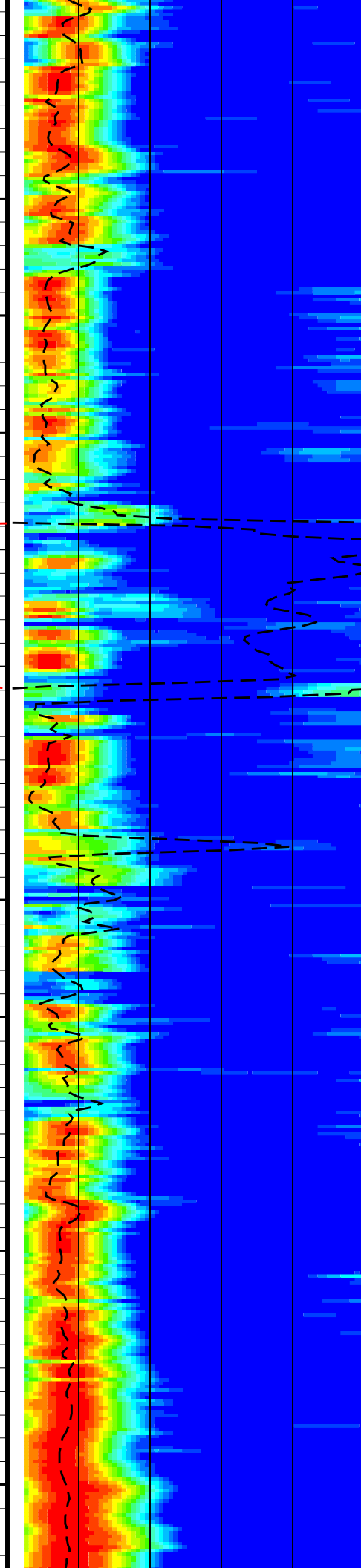
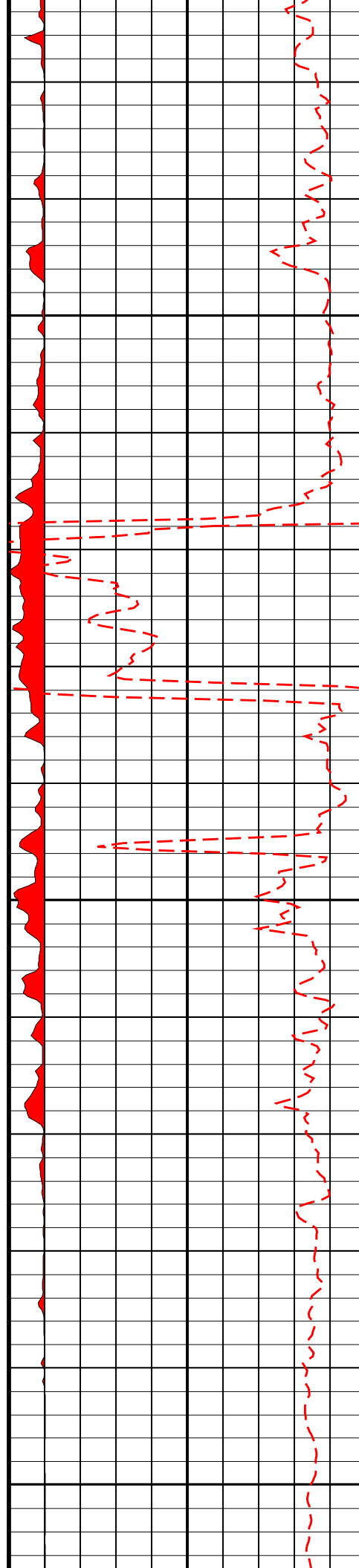


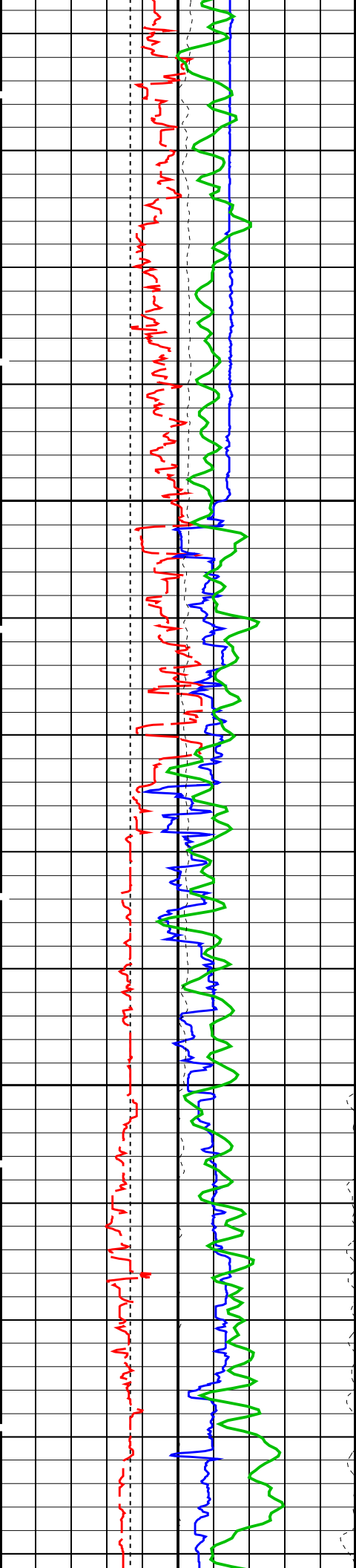


2425

2450

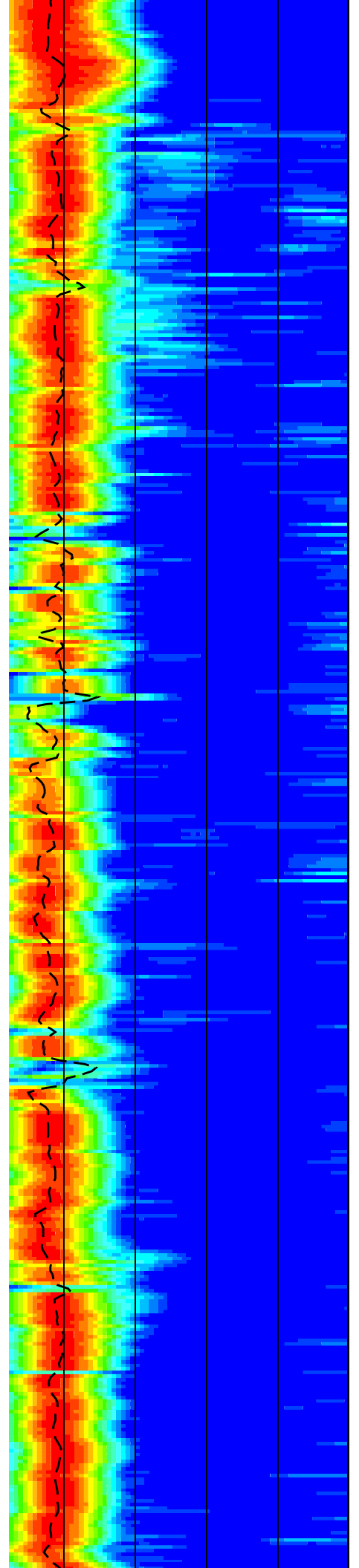
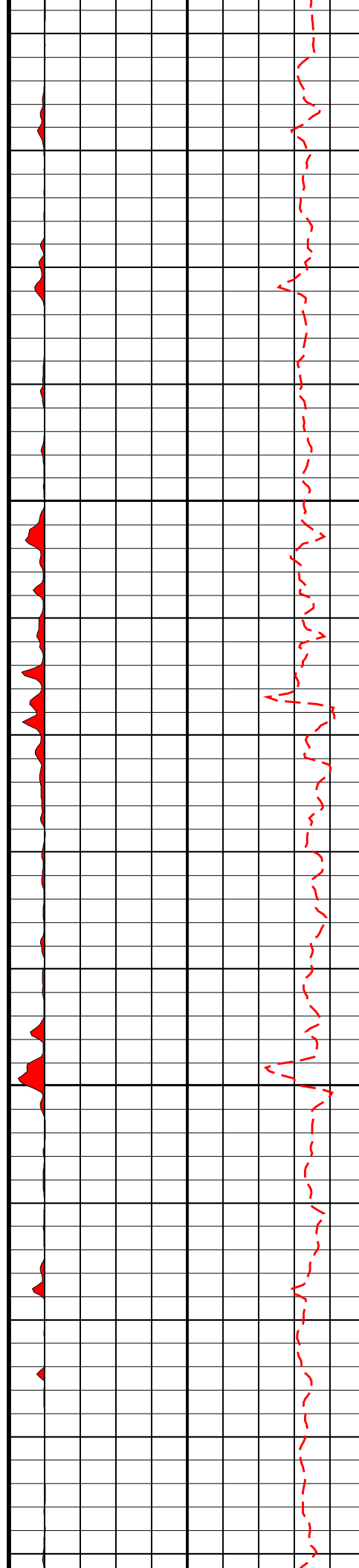
2475

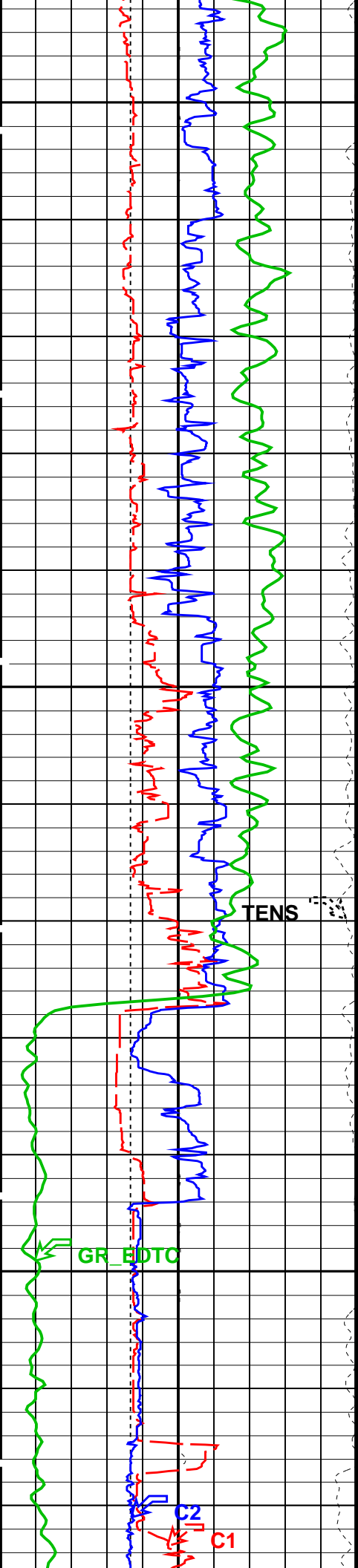




2500

2525

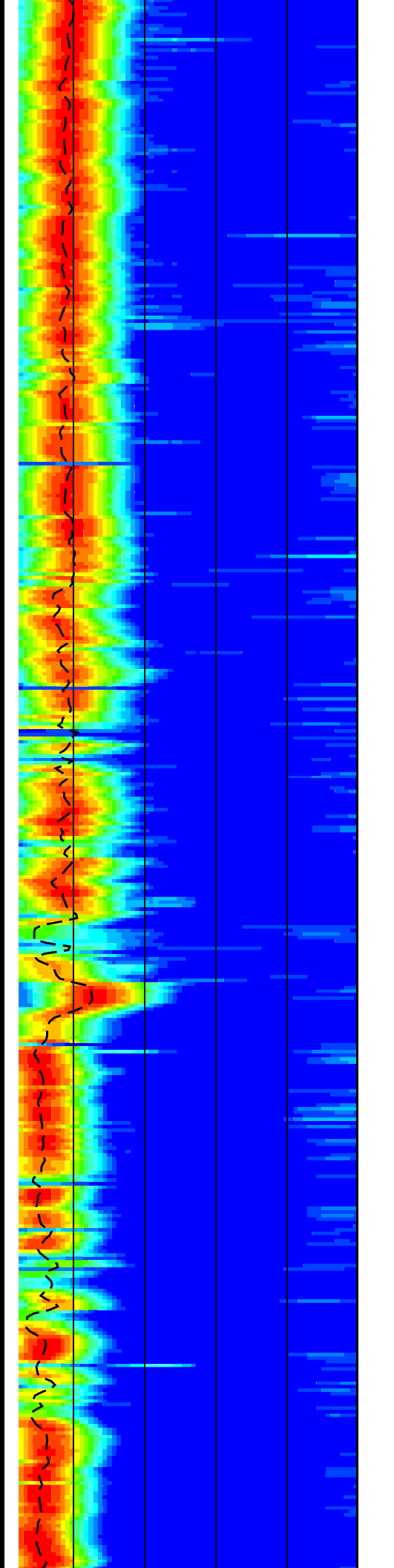
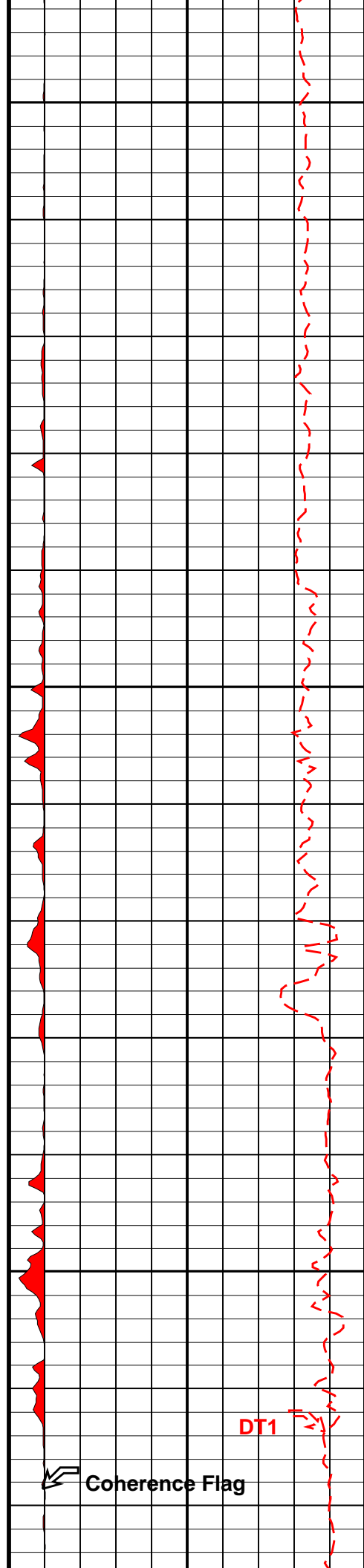


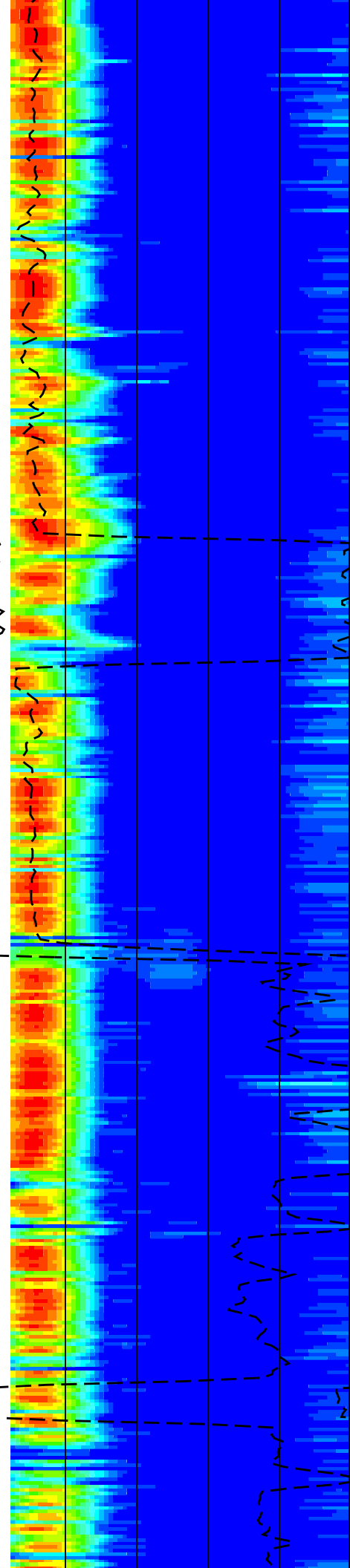
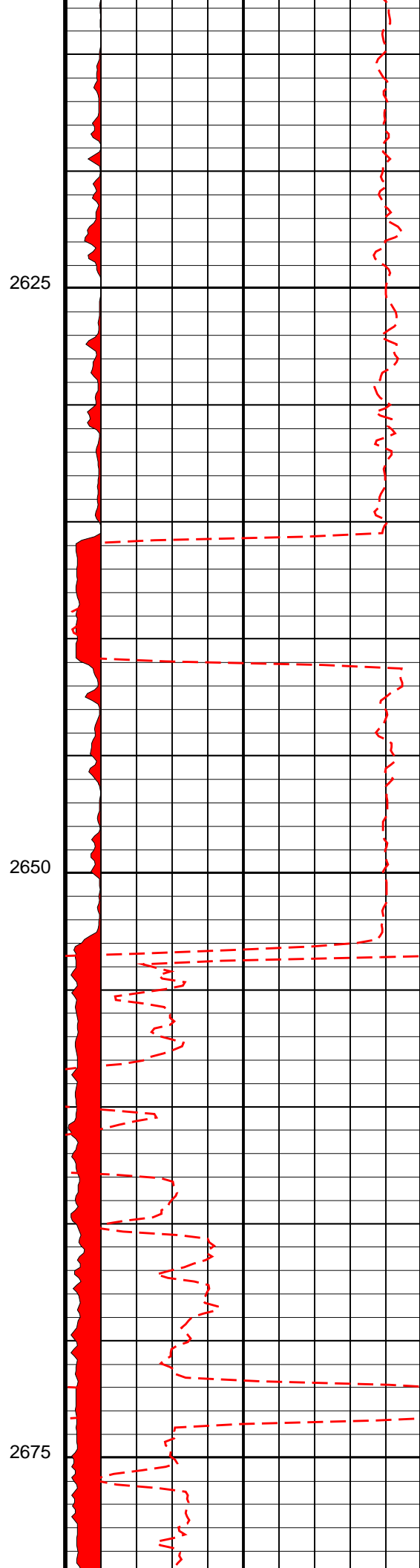
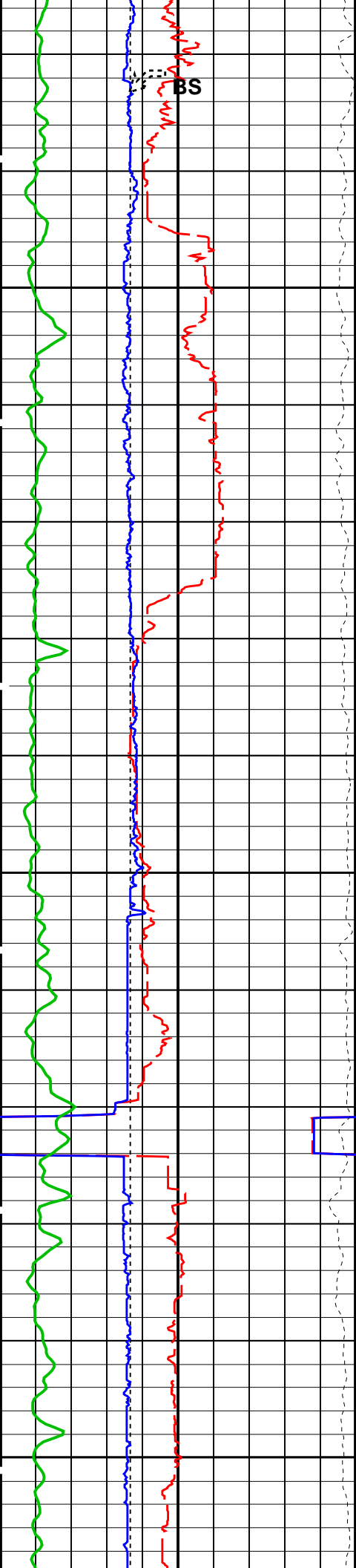


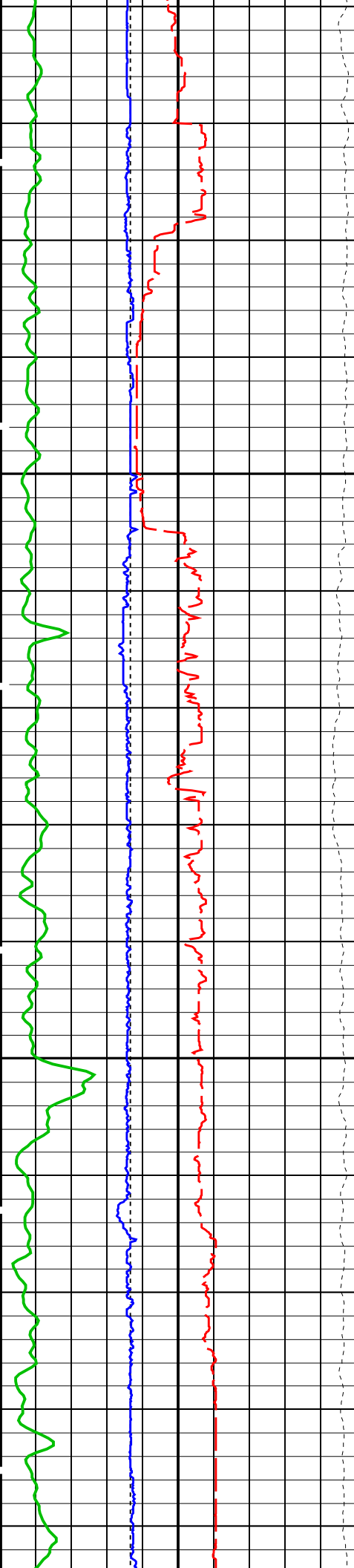
2550

2575

2600

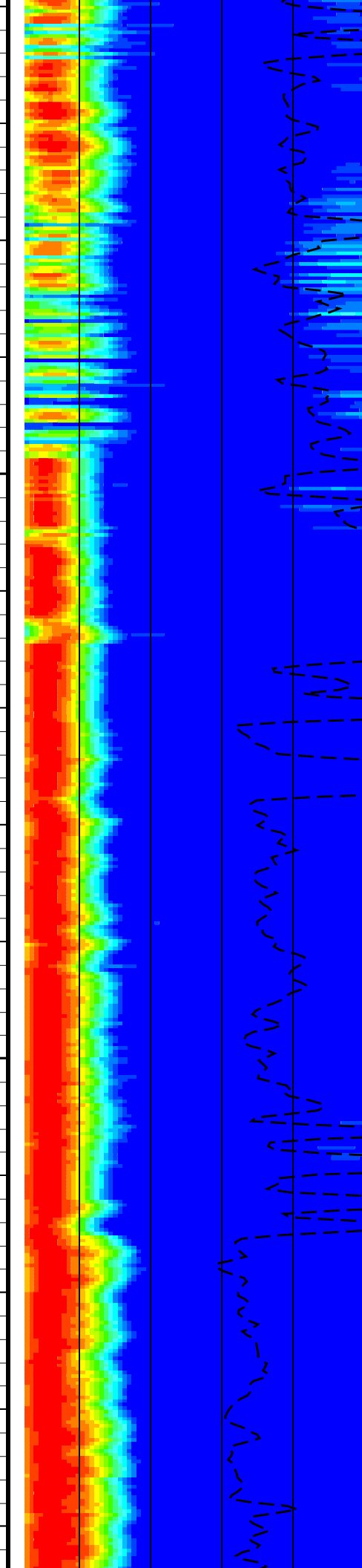
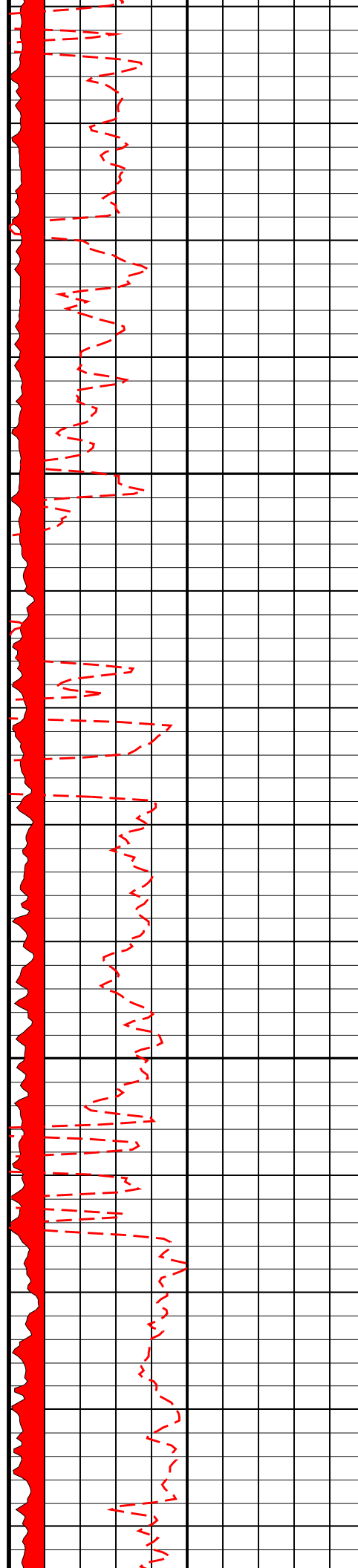


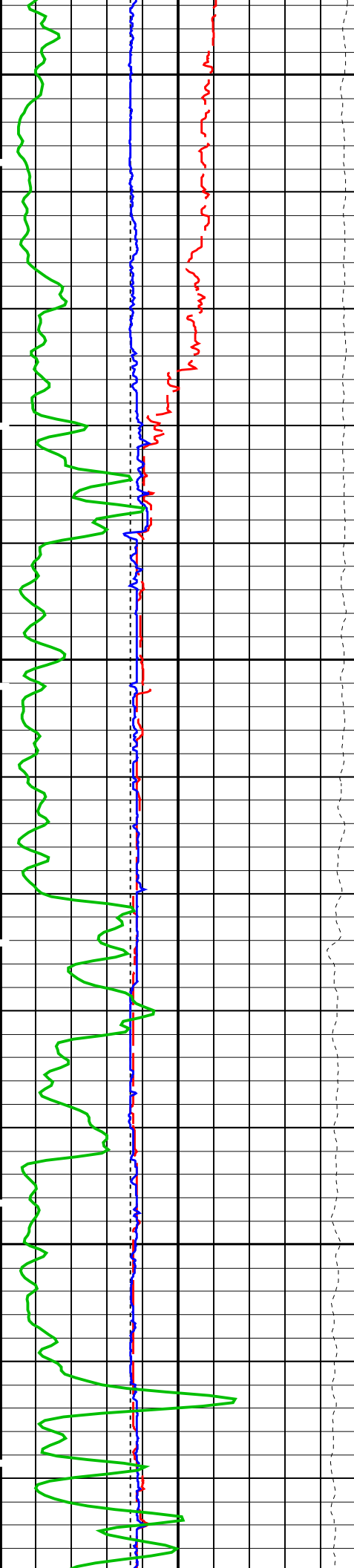




2700

2725

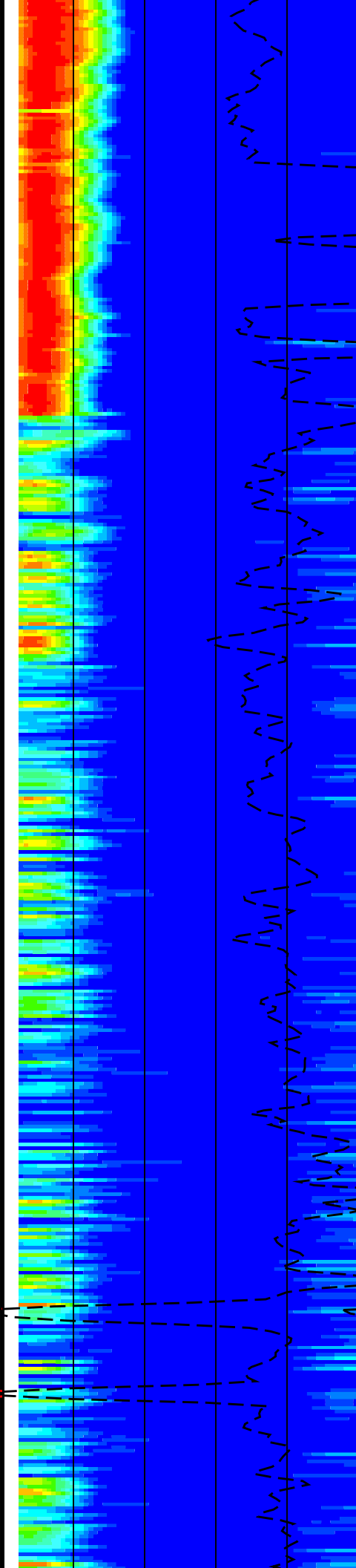
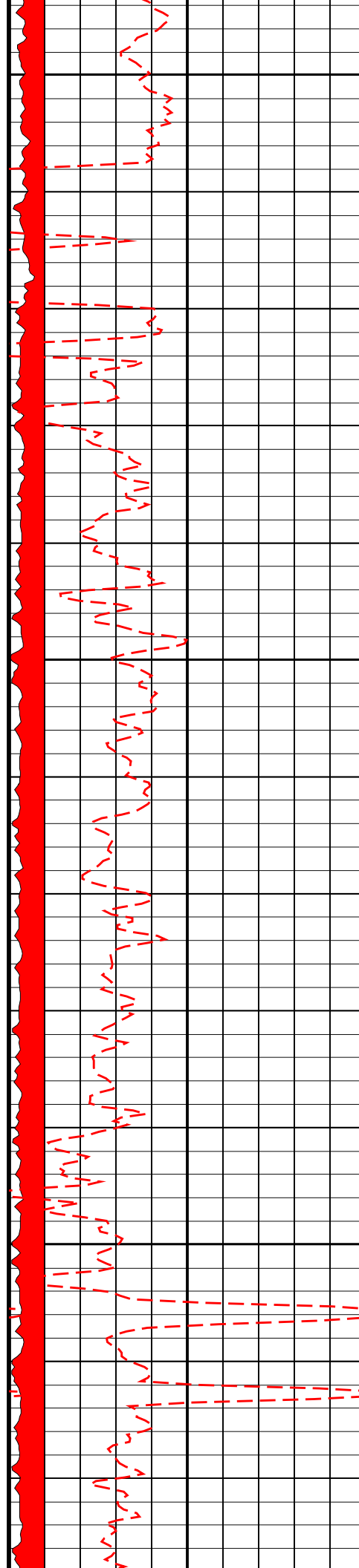


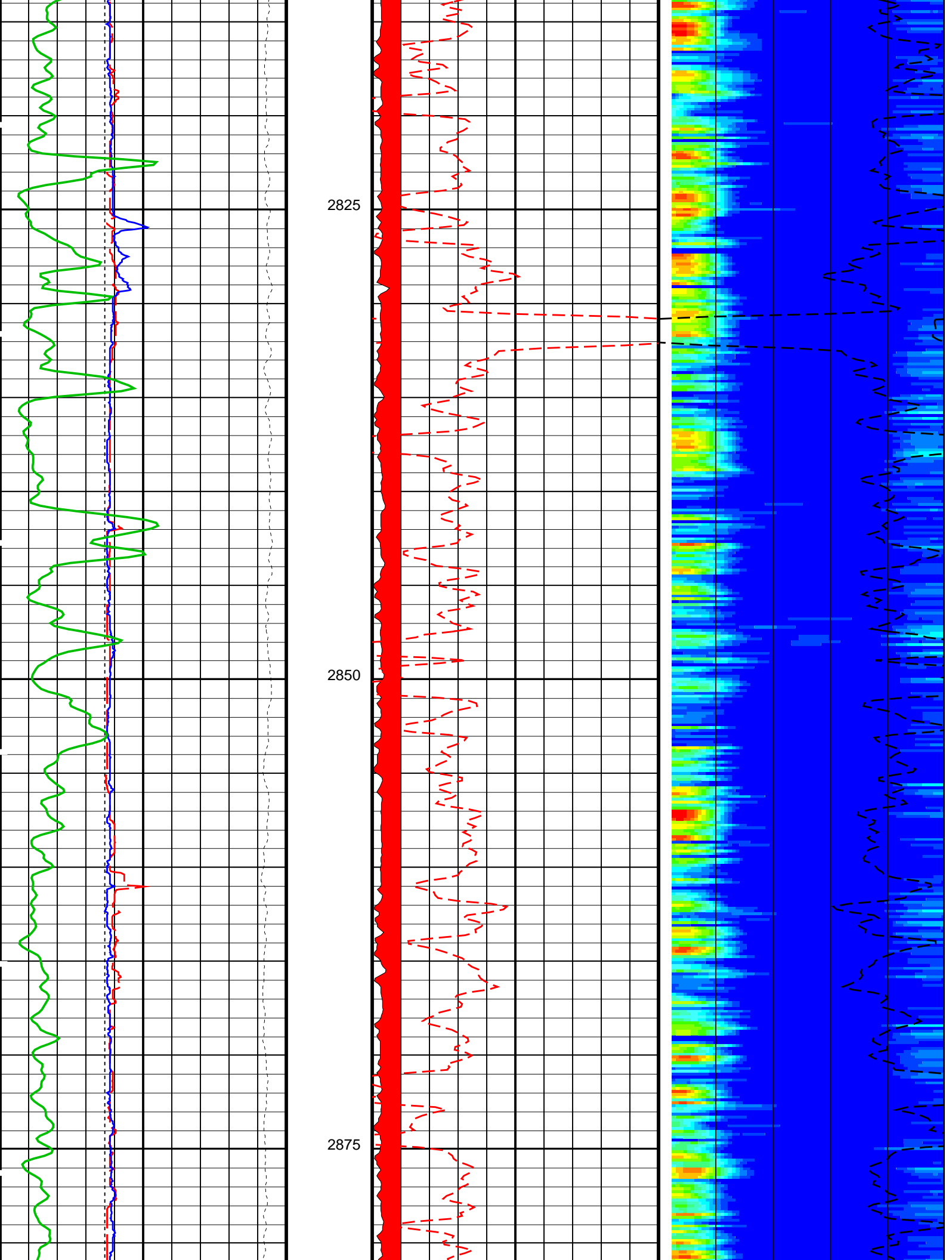


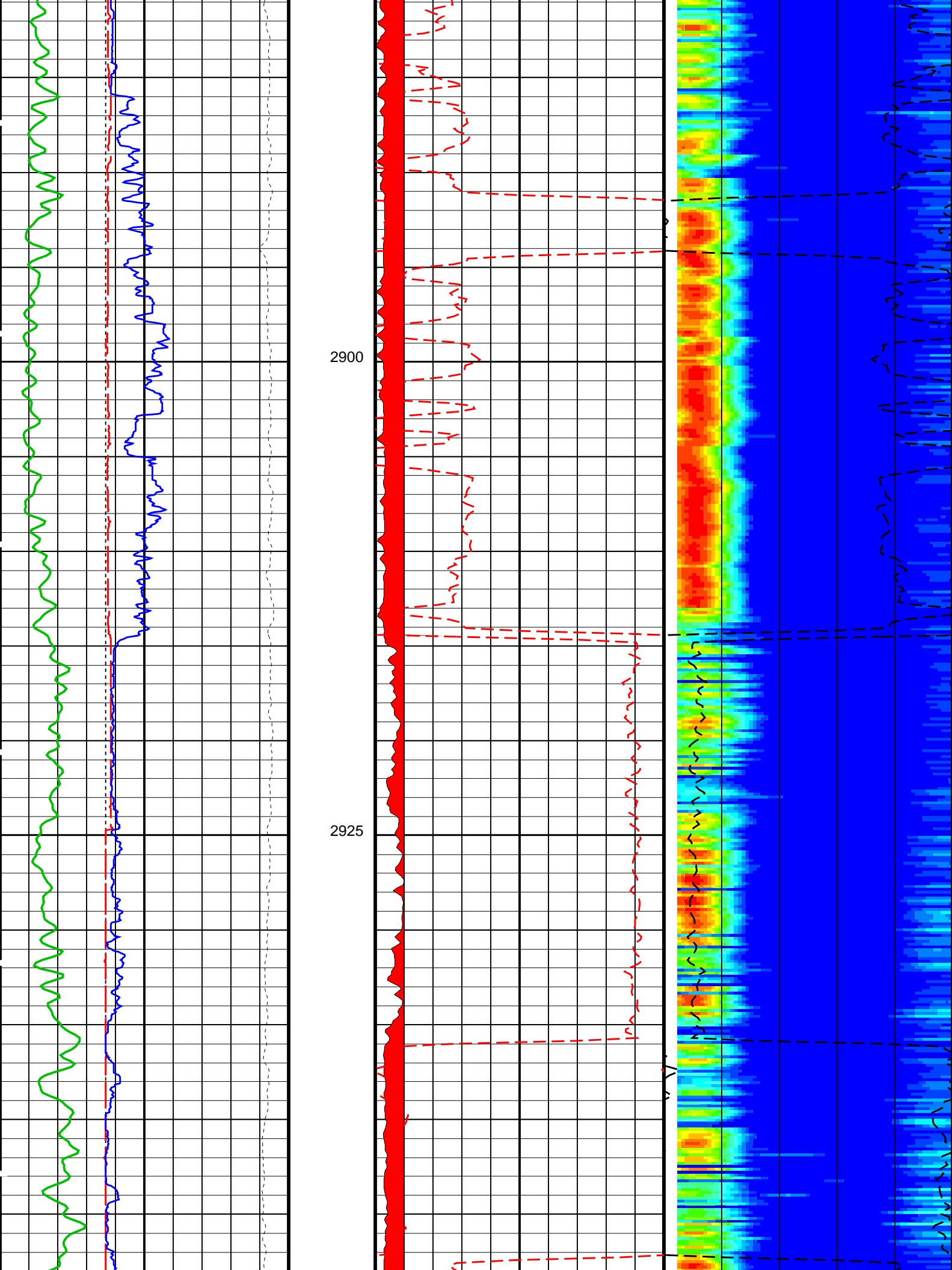
2750

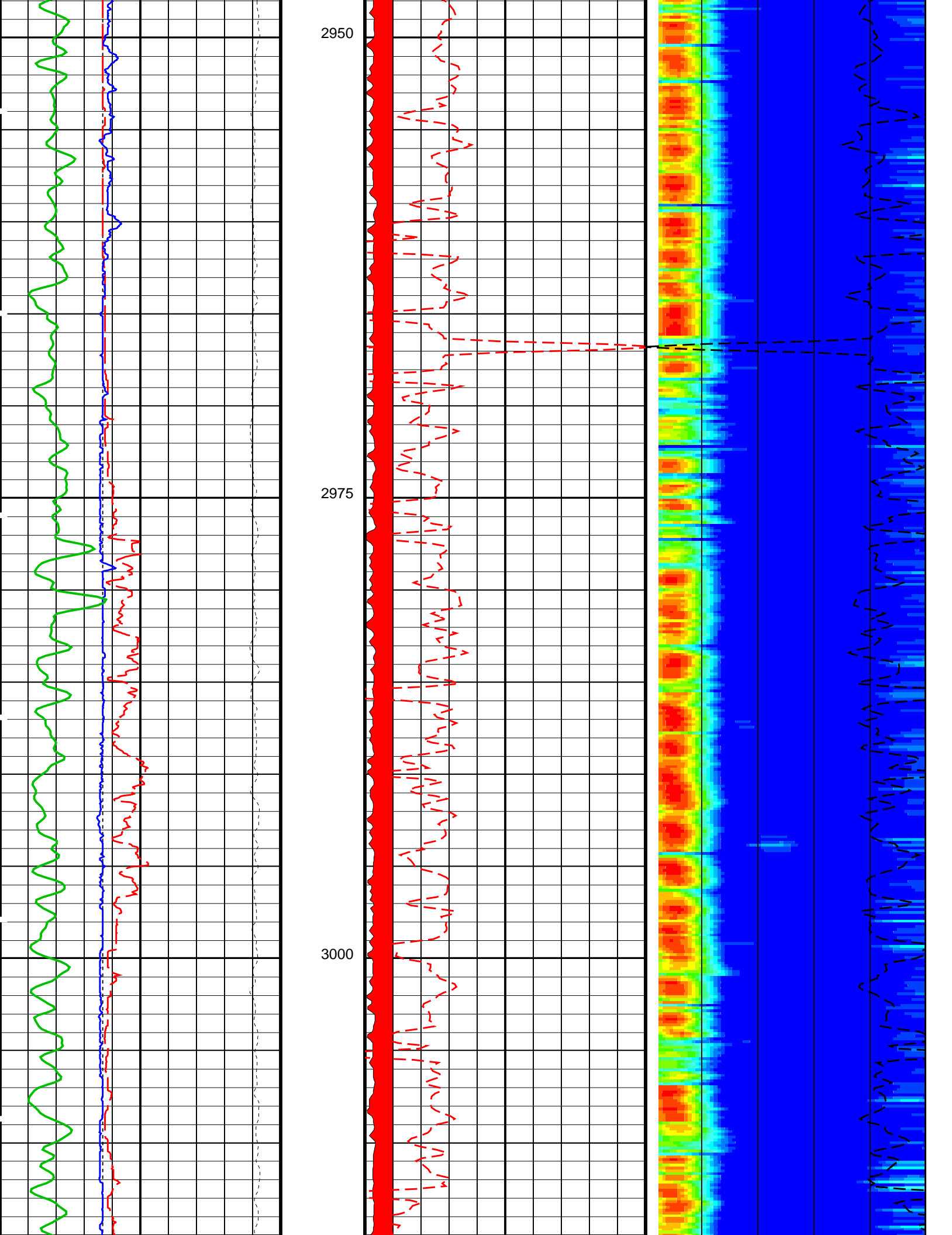
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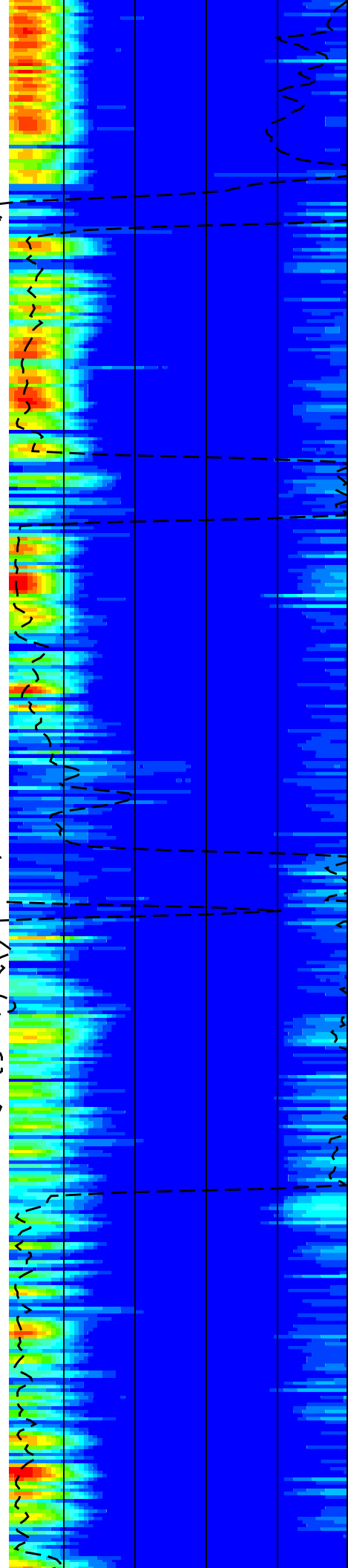
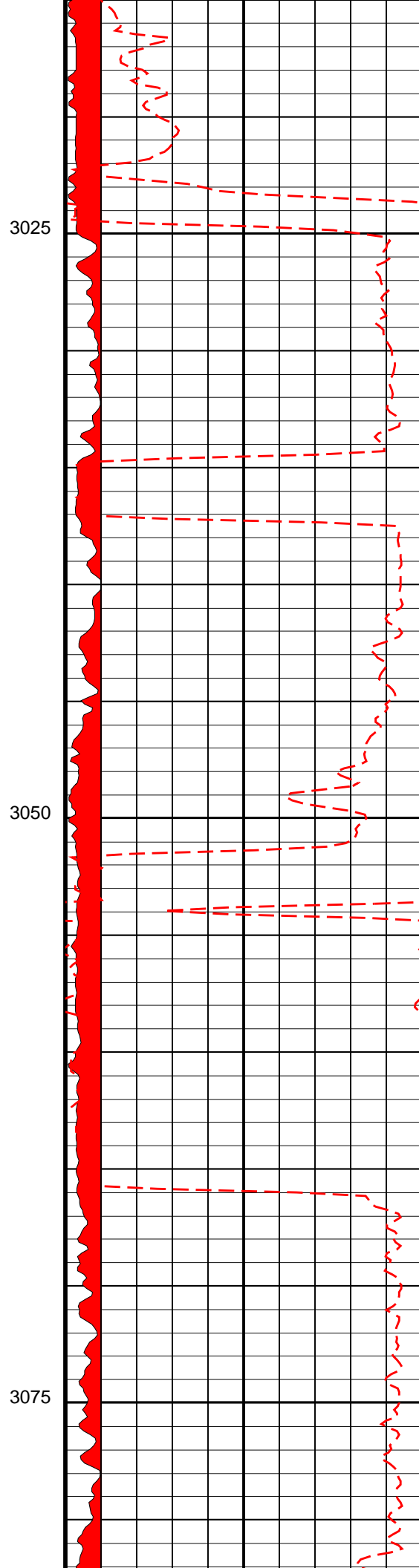
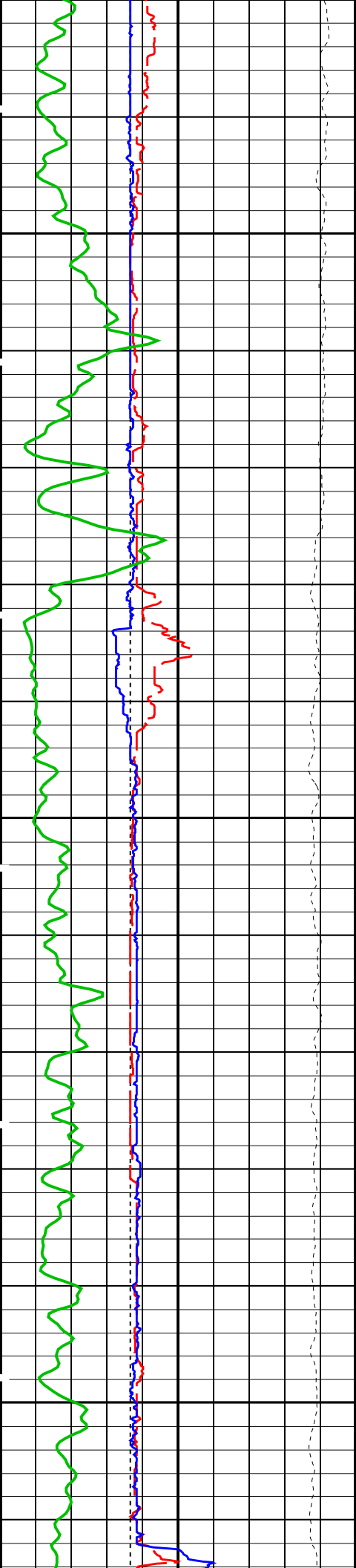
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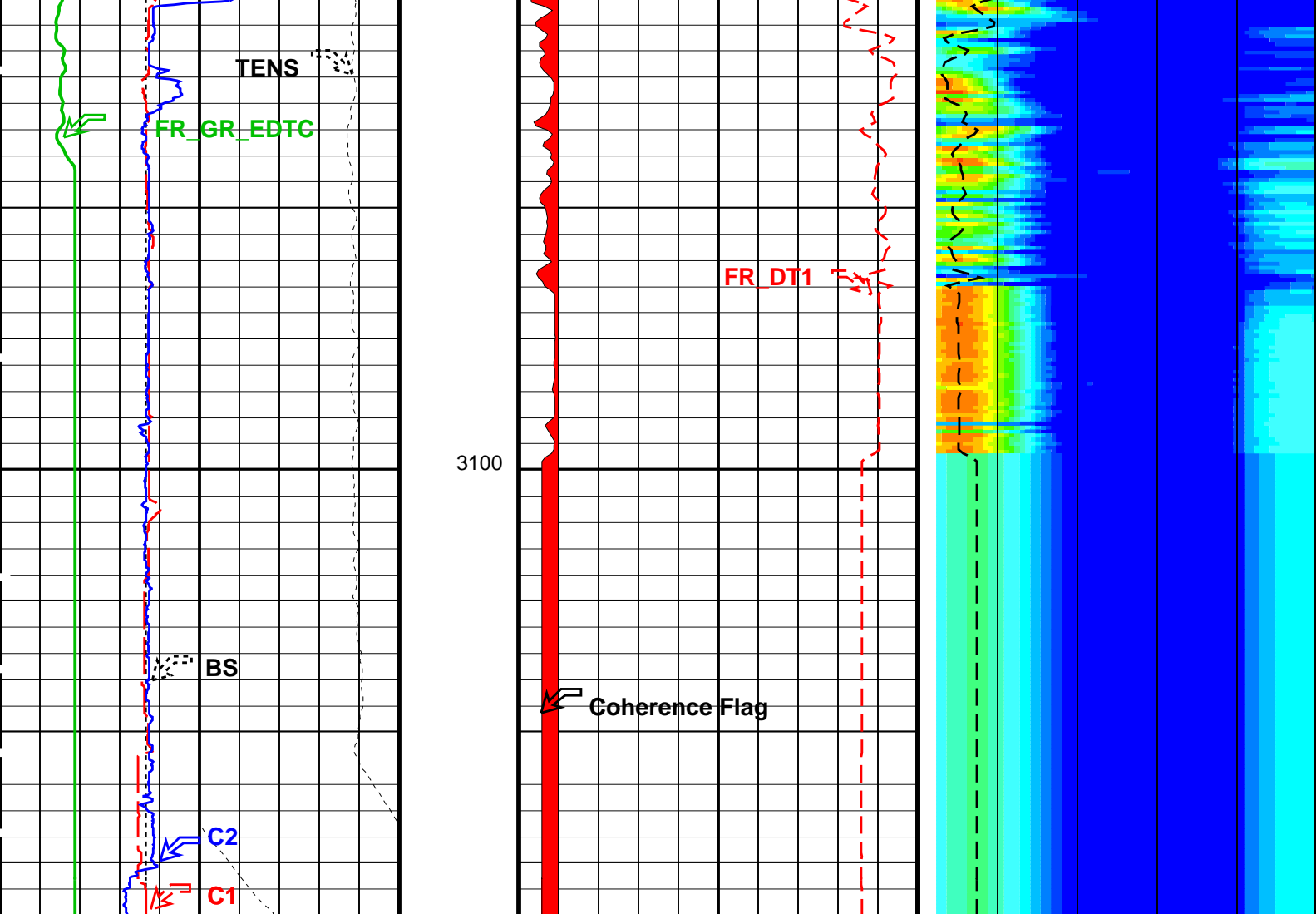












MAIN PASS: DIPOLE SONIC – LOWER DIPOLE IMAGE

Bit Size (BS) (MM)			Delta-T Shear – Lower Dipole (DT1) (US/M)			Delta-T Shear / RA – Lower Dipole (DT1R) (US/M)		
125		375	1200		200	200		1200
Caliper 1 (C1) (MM)			Low Shear Coherence Flag			Min Amplitude Max		
125		375				Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/M)		
Caliper 2 (C2) (MM)						200 1200		
Gamma Ray (GR_EDTC) (GAPI)								
0		150						
Tension (TENS) (N)								
	25000	0						

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DDE1	Digitizing Delay 1	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	246.063	US/M
DSHU	Label Slowness Upper Limit – Dipole Shear	2542.65	US/M
DSI1	Digitizer Sample Interval 1	40	US

DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	3962	MM
NWI1	Number Waveform Items 1	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B1–3K	
SLL1	STC Slowness Lower Limit – Lower Dipole	246.063	US/M
SST1	STC Slowness Step – Lower Dipole	13.1234	US/M
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit – Lower Dipole	2542.65	US/M
SWD1	STC Slowness Width – Lower Dipole	131.234	US/M
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	15912.5	US
TWD1	STC Time Width – Lower Dipole	2000	US
TW11	STC Integration Time Window – Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSI_LOWER_DIPOLE Vertical Scale: 1:240 Graphics File Created: 20-May-2010 01:24

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

Input DLIS Files

DEFAULT	FMI_CAL_DSI_228PUP	FN:32	PRODUCER	20-May-2010 00:35	3138.5 M	2283.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_230PUP	FN:36	PRODUCER	20-May-2010 01:24
CUSTOMER	FMI_CAL_DSI_230PUC	FN:37	CUSTOMER	20-May-2010 01:24

Schlumberger

Cased hole section

Input DLIS Files

FMI CAL DSI 055LUP

FN:77

16-May-2010 15:01

1833.7 M

1486.1 M

Output DLIS Files

DEFAULT

FMI_CAL_DSI_215PUP

FN:20

PRODUCER

17-May-2010 19:47

1842.8 M

1495.2 M

CUSTOMER

FMI CAL DSI 215PUC

FN:21

CUSTOMER

17-May-2010 19:47

1842.8 M

1495.2 M

OP System Version: 17C0-154

FBST-B

17C0-154

PPC2-B

17C0-154

DSST-B

17C0-154

PPC1-B

17C0-154

EDTC-B

SKK-3882-EDTCB b

DTPC-A

SKK-3882-EDTCB b

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

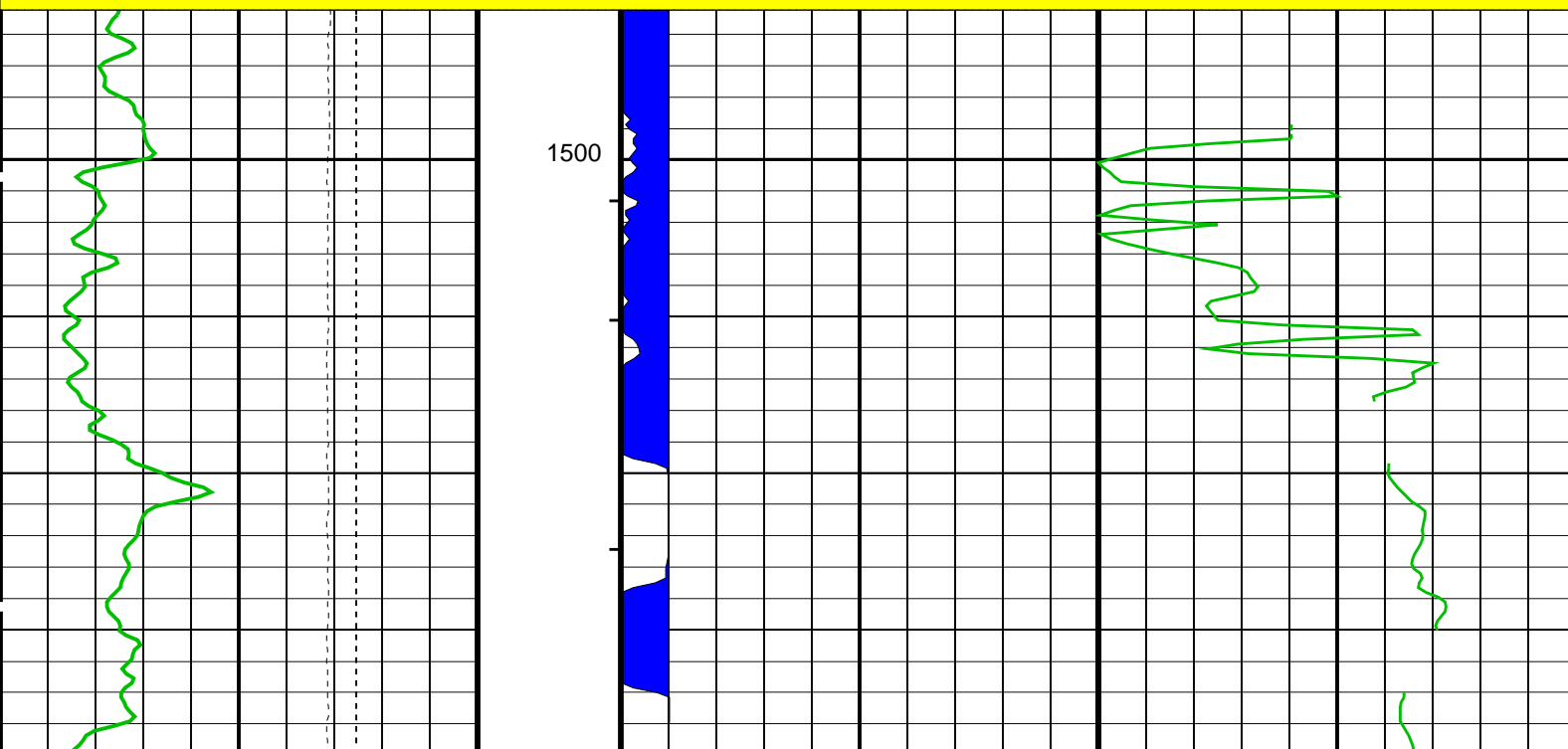
Time Mark Every 60 S

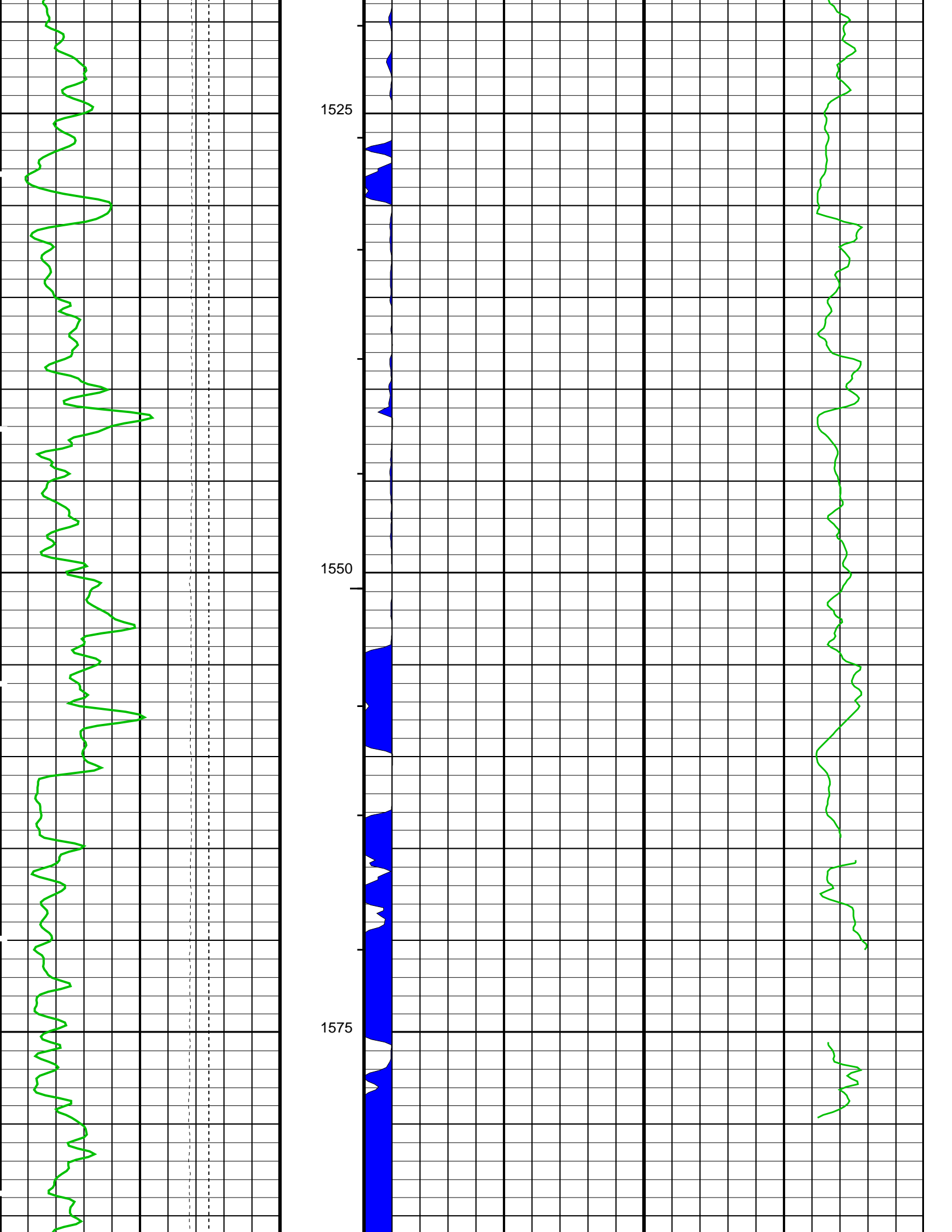
	Tension (TENS)	
25000	(N)	0
Gamma Ray (GR_EDTC)		
0	(GAPI)	150
Bit Size (BS)		
125	(MM)	375

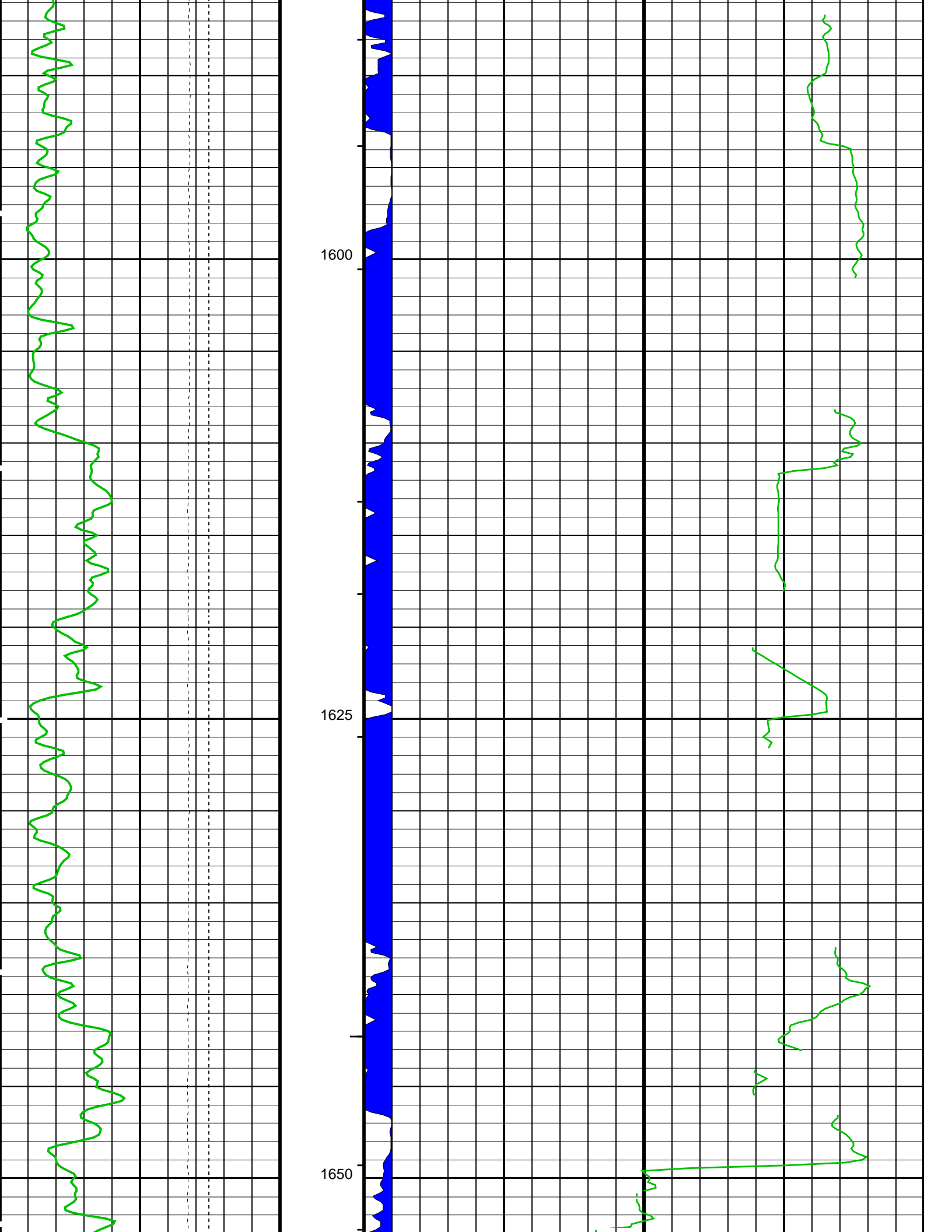
Low Comp
Coherence Flag

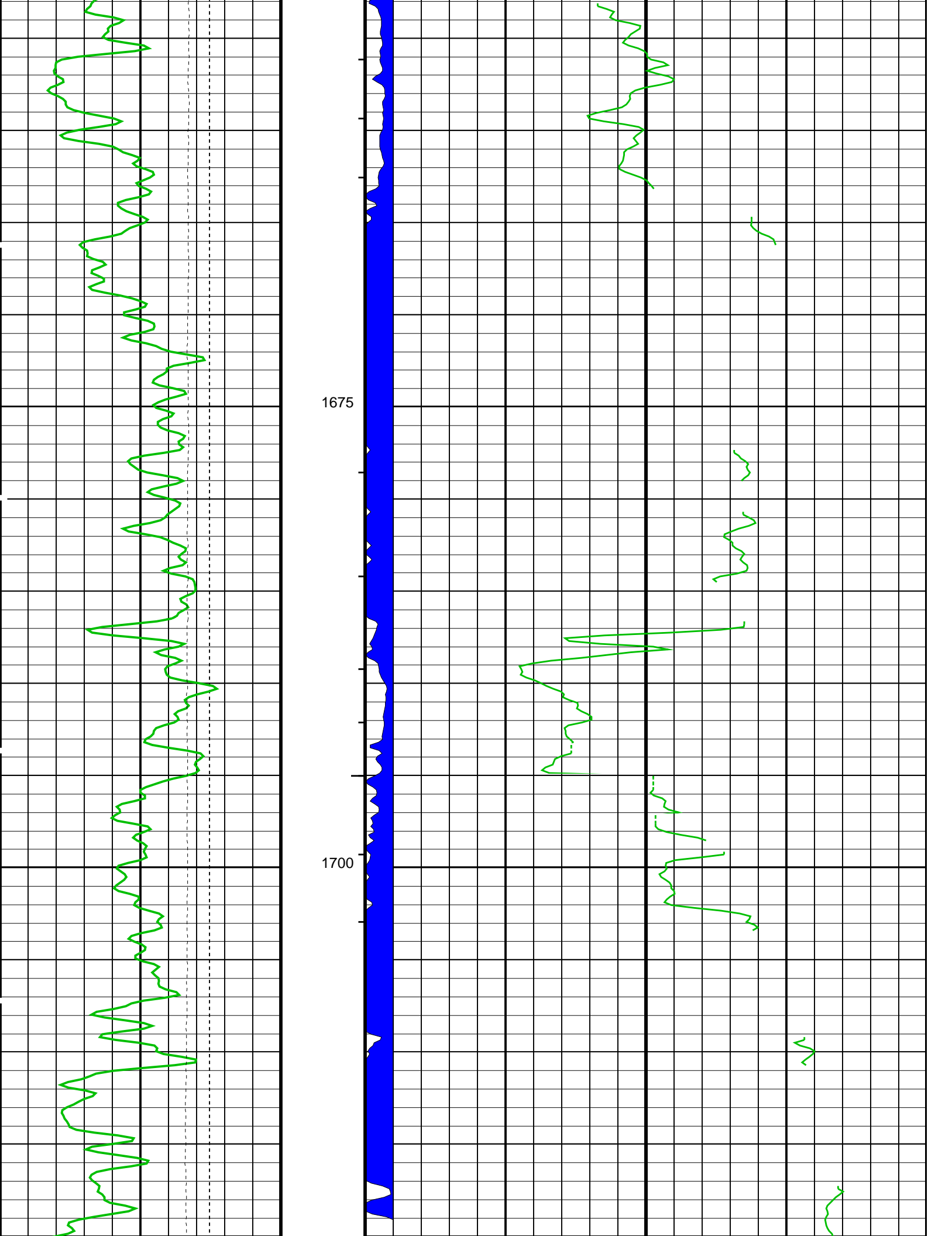
Delta-T Comp – P & S (DT4P)
 500 (US/M) 100

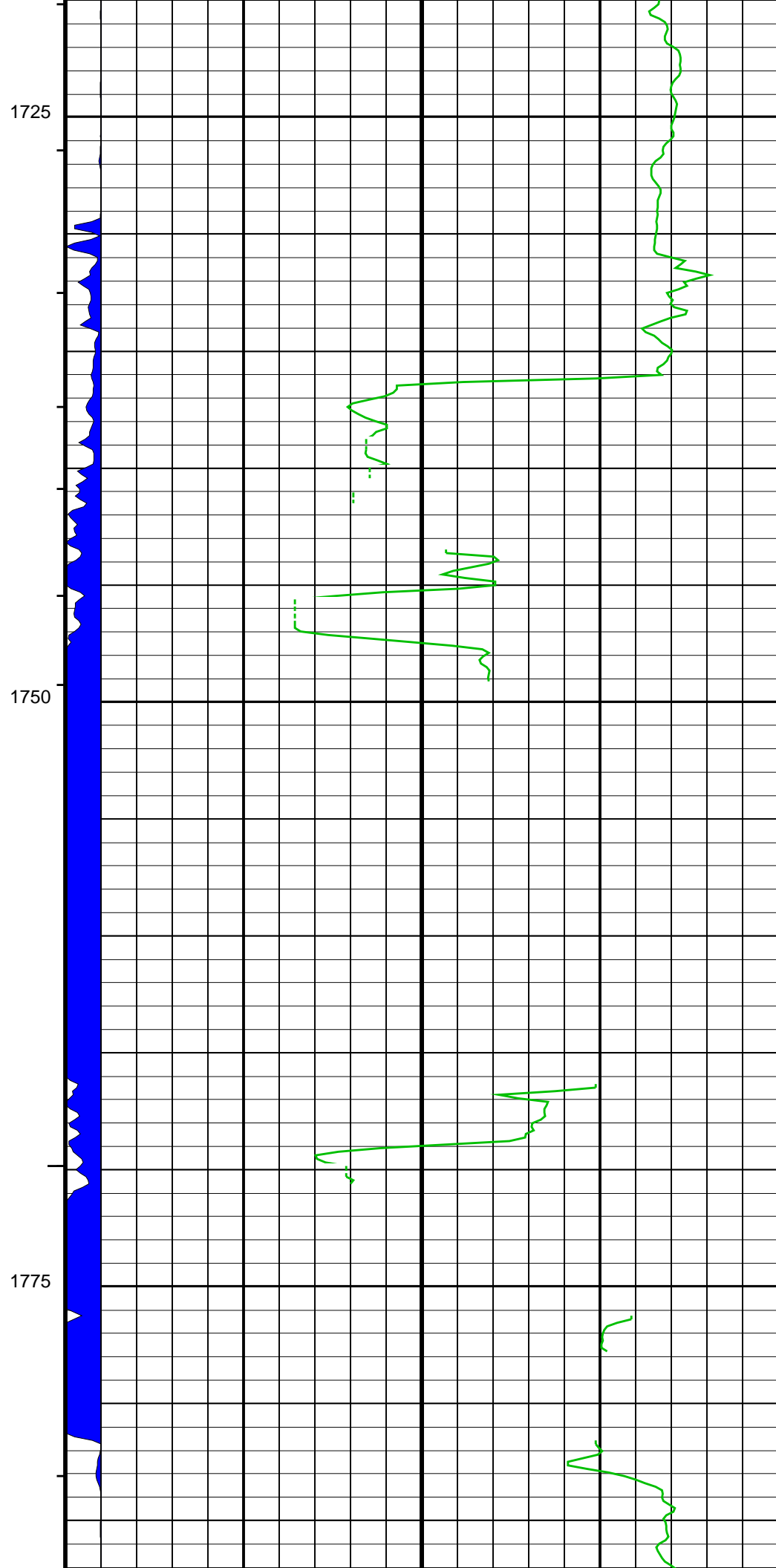
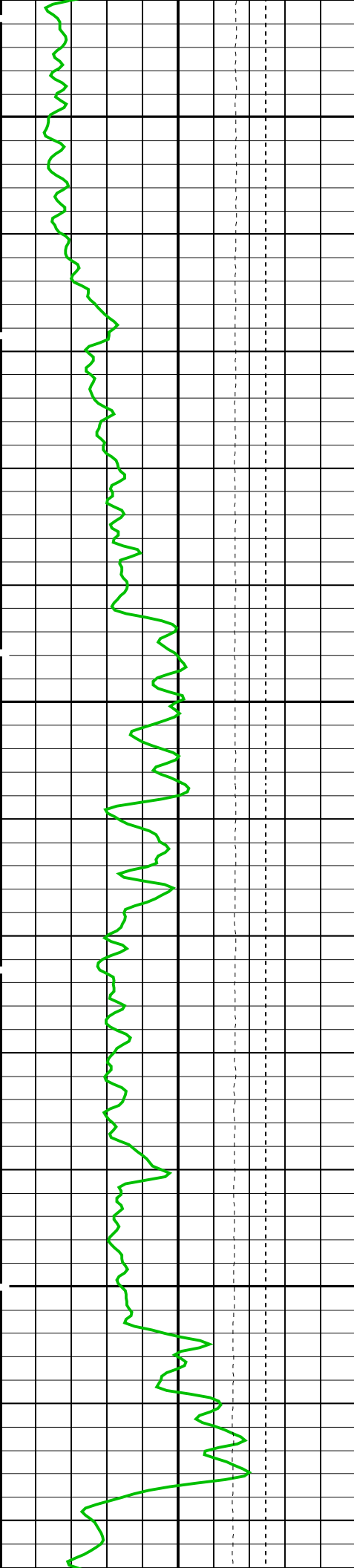
MAIN PASS: DIPOLE SONIC - DELTA-T

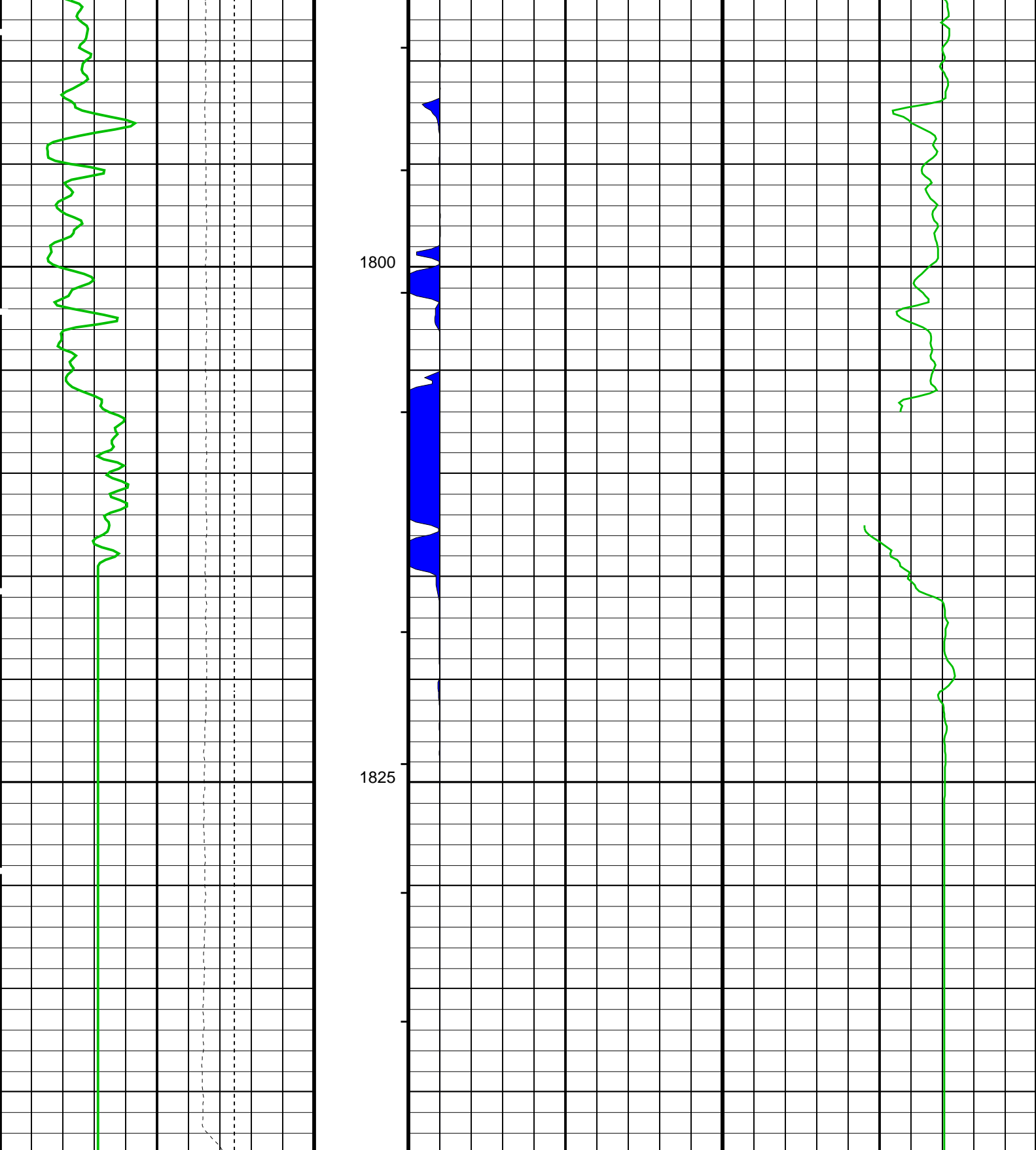












MAIN PASS: DIPOLE SONIC - DELTA-T

Bit Size (BS)		
125	(MM)	375
Gamma Ray (GR_EDTC)		
0	(GAPI)	150
Tension (TENS)		
25000	(N)	0

Delta-T Comp - P & S (DT4P)		
500	(US/M)	100
Low Comp Coherence Flag		

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ 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	
FBST-B: Full-Bore Scanner – B			
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	OFF	
FDBP	FMI Dead Buttons Patching	OFF	
FDFL	FMI DSP Filter Length	1	
FIEQ	FMI Image Equalisation	OFF	
FIGA	FMI Image Gain	1	
FIOF	FMI Image Offset	0	
FLM	FMI Logging Mode	8PAD	
FP5A	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	-20.9531	DEG
MRTE	Magneto Reference Temperature	19	DEGC
RBS	Resistivity Button Selection	AUTO	
RBSI	Auto RBS Change Interval	10	
SOFF	Standoff	0	MM
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	
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	CASED	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
CASF	Label Casing Function – Monopole P&S	50	
CDTS	C-Delta-T Shale	328.084	US/M
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	131.234	US/M
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	590.551	US/M
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	246.063	US/M
DSHU	Label Slowness Upper Limit – Dipole Shear	2542.65	US/M
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSI3	Digitizer Sample Interval 3	10	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	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
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	

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	131	US/M
FGMX	First Motion Gate Moveout X	131	US/M
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	131.234	US/M
FMRC	Restart Control – FMD	CONTINUE	
FMT5	First Motion Threshold 5	UP	
FMTX	First Motion Threshold X	NONE	
FMUL	Slowness Upper Limit – FMD	590.551	US/M
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	10	
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	20	DEG
GDT1	Gain Delta–T 1	2625	US/M
GDT2	Gain Delta–T 2	2625	US/M
GDT3	Gain Delta–T 3	2625	US/M
GDT4	Gain Delta–T 4	525	US/M
GDT5	Gain Delta–T 5	525	US/M
GDTX	Gain Delta–T X	2625	US/M
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
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	
ISSBAR	Barite Mud Switch	NOBARITE	
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	3962	MM
MAI5	Slowness Averaging Interval – FMD	1067	MM
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCS	Mean Casing Slowness	187.008	US/M
MDS5	Multishot Delta–T Scatter – FMD	20	US
MTXG	Monopole Transmitter Geometry	4724	MM
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	
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	

NWSX	Number Waveforms Stacked X	R7	
RATE	Firing Rate	1.4	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	2.12	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	7468	MM
RX1G	Receiver 1 Geometry	7620	MM
RX2G	Receiver 2 Geometry	7772	MM
RX3G	Receiver 3 Geometry	7925	MM
RX4G	Receiver 4 Geometry	8077	MM
RX5G	Receiver 5 Geometry	8230	MM
RX6G	Receiver 6 Geometry	8382	MM
RX7G	Receiver 7 Geometry	8534	MM
RX8G	Receiver 8 Geometry	EVEN	
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	ODD	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	OFF	
SAM3	DSST Sonic Acquisition Mode 3 – Low Frequency Monopole Mode for Stoneley	EVEN	
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	OFF	
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	246.063	US/M
SHT	Surface Hole Temperature	30	DEGC
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SLL1	STC Slowness Lower Limit – Lower Dipole	246.063	US/M
SLL2	STC Slowness Lower Limit – Upper Dipole	246.063	US/M
SLL3	STC Slowness Lower Limit – Monopole Stoneley	590.551	US/M
SLL4	STC Slowness Lower Limit – Monopole P&S	131.234	US/M
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
SST1	STC Slowness Step – Lower Dipole	13.1234	US/M
SST2	STC Slowness Step – Upper Dipole	13.1234	US/M
SST3	STC Slowness Step – Monopole Stoneley	13.1234	US/M
SST4	STC Slowness Step – Monopole P&S	6.56168	US/M
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	590.551	US/M
STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL1	STC Slowness Upper Limit – Lower Dipole	2542.65	US/M
SUL2	STC Slowness Upper Limit – Upper Dipole	2542.65	US/M
SUL3	STC Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL4	STC Slowness Upper Limit – Monopole P&S	787.402	US/M
SWD1	STC Slowness Width – Lower Dipole	131.234	US/M
SWD2	STC Slowness Width – Upper Dipole	131.234	US/M
SWD3	STC Slowness Width – Monopole Stoneley	131.234	US/M
SWD4	STC Slowness Width – Monopole P&S	32.8084	US/M
TBDB	Tool String Bottom to DSST Bottom	10030.5	MM
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	23716	MM

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	5110	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	179	
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	0	
TWS4	Transmitter Waveform Select 4	6	
TWS5	Transmitter Waveform Select 5	6	
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	4115	MM
WFDTSP1	SAM1 Waveform Delta for Spectrum	0	US/M
WFDTSP2	SAM2 Waveform Delta for Spectrum	0	US/M
WFDTSP3	SAM3 Waveform Delta for Spectrum	0	US/M
WFDTSP4	SAM4 Waveform Delta for Spectrum	0	US/M
WFDTSPX	SAMX Waveform Delta for Spectrum	0	US/M
WFLSP1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLSP2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLSP3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLSP4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLSPX	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	DLO	
XMT2	Transmitter Select 2	DUP	
XMT3	Transmitter Select 3	NONE	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	DUP	
EDTC–B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	–50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
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	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	30	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
TPQS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	

U-ETELM_EDTS	EDTS Tool Centered/ Eccentered	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
DIP: Dip Computation			
CSBL	DIP Tool	FBST	
DPAD	CSB DIP Number of Levels	2L	
ELRA	Disabled Pad	NONE	
INT	Electrical Radius	12.7	MM
SANG	Correlation Interval	1.2192	M
SBUT	Correlation Search Angle	35	DEG
SDFA	DIP Set of Buttons	MSD	
SPAN	Side-by-Side Distance Factor	22.86	MM
STDA	DIP Spanning	1/4	
STDI	Structural DIP Azimuth	0	DEG
STEP	Structural DIP Angle	0	DEG
DIR: Directional Survey Computation			
SPED	Correlation Step	0.6096	M
SPND	East Departure of Starting Point	0	M
SPVD	North Departure of Starting Point	0	M
TAZI	TVD of Starting Point	0	M
TIED	Vertical Section Azimuth	0	DEG
TIMD	East Departure of Tie-in Point	0	M
TIND	Along-hole depth of Tie-in Point	0	M
TIVD	North Departure of Tie-in Point	0	M
TVD of Tie-in Point			
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
FCD	Future Casing (Outer) Diameter	177.8	MM
GCSE	Generalized Caliper Selection	BS	
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	C1/C2	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	30	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.5	M
TDD	Total Depth - Driller	3160.00	M
TDL	Total Depth - Logger	3129.20	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	311.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	244.500	MM
CWEI	Casing Weight	64.74	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	9.2	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	21.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.7100	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	3129.2	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: DSI_DTSONIC_D240 Vertical Scale: 1:240 Graphics File Created: 17-May-2010 19:47

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

Input DLIS Files

FMI_CAL_DSI_055LUP	FN:77	16-May-2010 15:01	1833.7 M	1486.1 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_215PUP	FN:20	PRODUCER	17-May-2010 19:47
CUSTOMER	FMI_CAL_DSI_215PUC	FN:21	CUSTOMER	17-May-2010 19:47

Input DLIS Files

Output DLIS Files

DEFAULT	FMI_CAL_DSI_213PUP	FN:16	PRODUCER	17-May-2010 19:12	2296.1 M	1804.1 M
CUSTOMER	FMI_CAL_DSI_213PUC	FN:17	CUSTOMER	17-May-2010 19:12	2296.1 M	1804.1 M

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

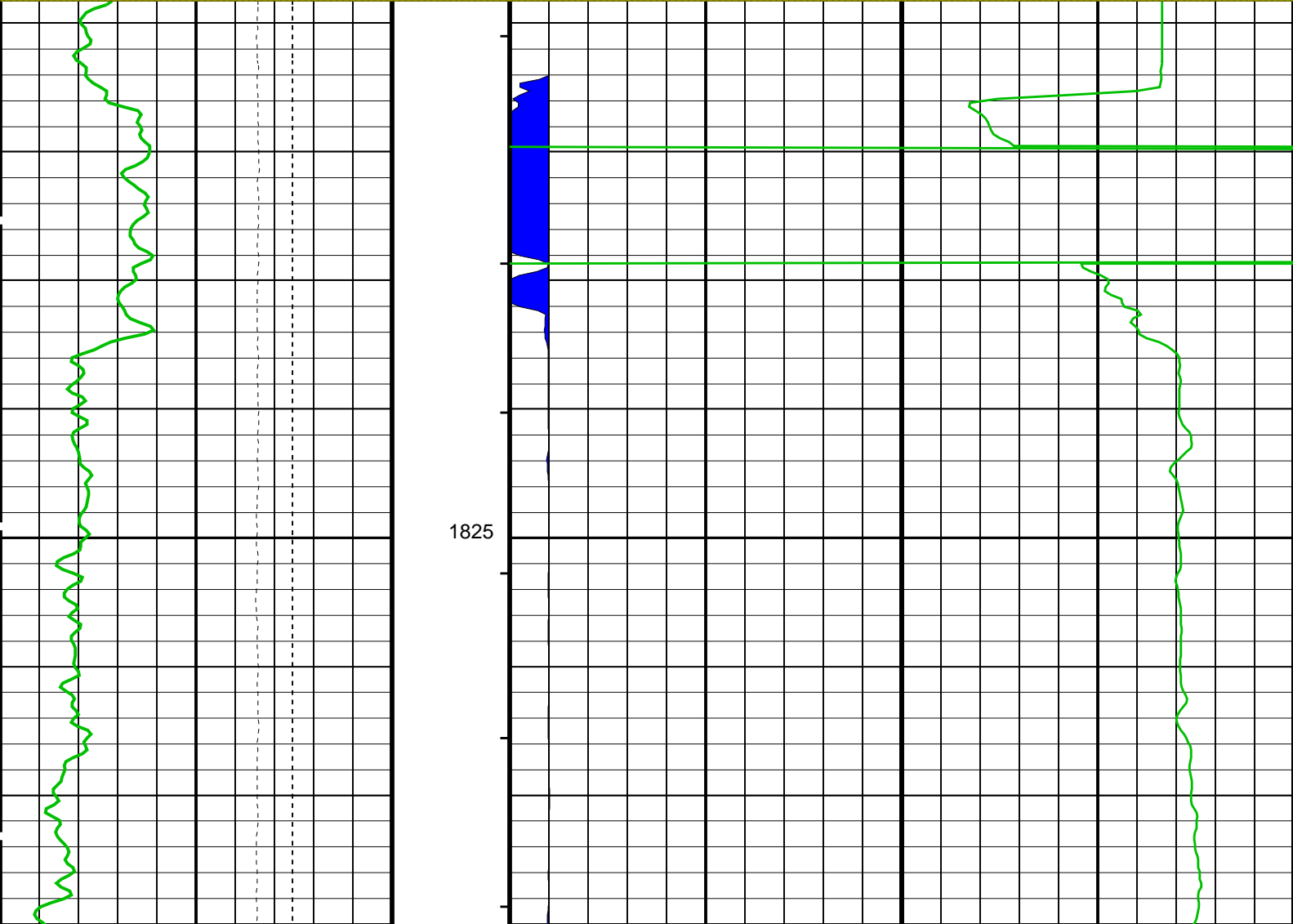
PIP SUMMARY

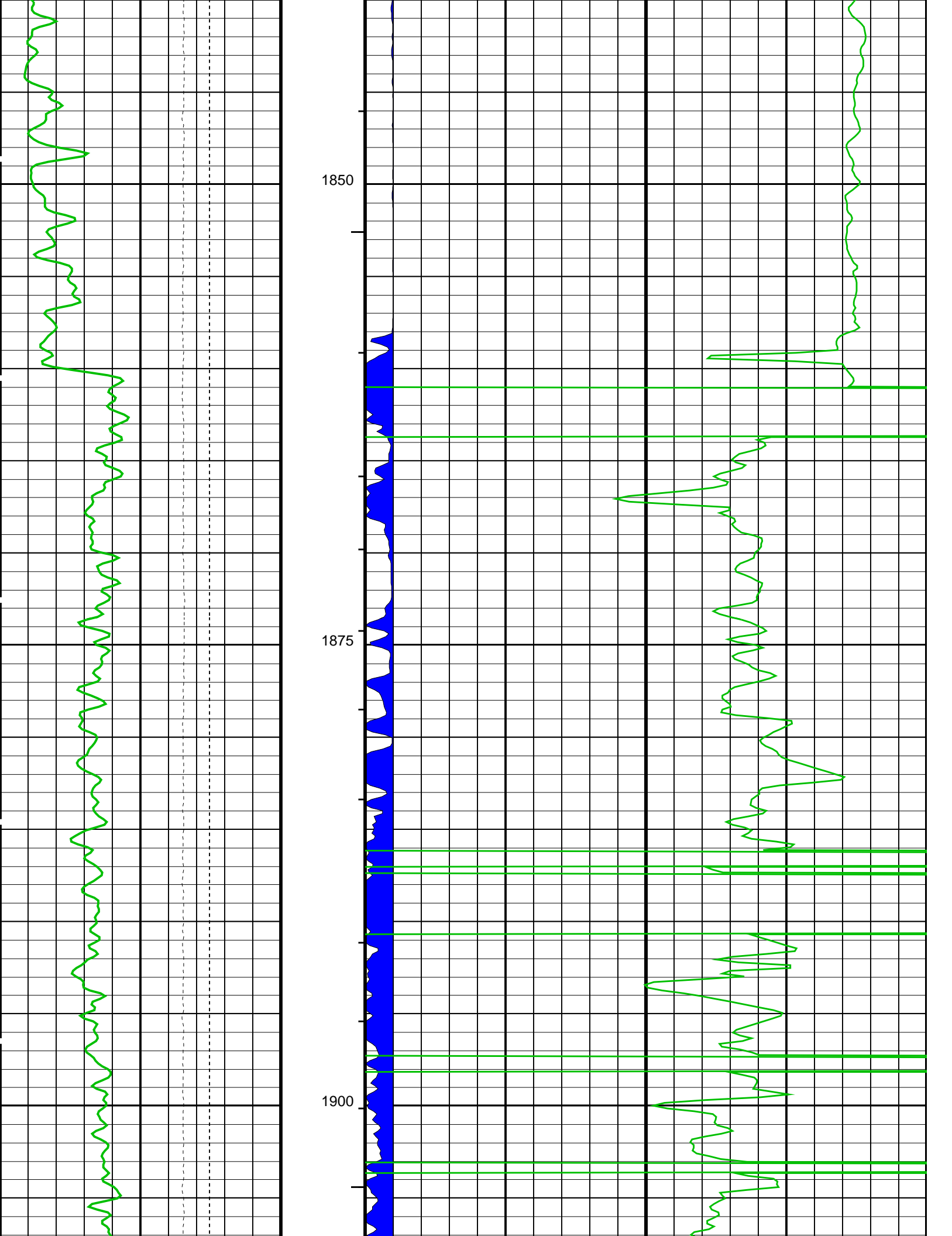
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

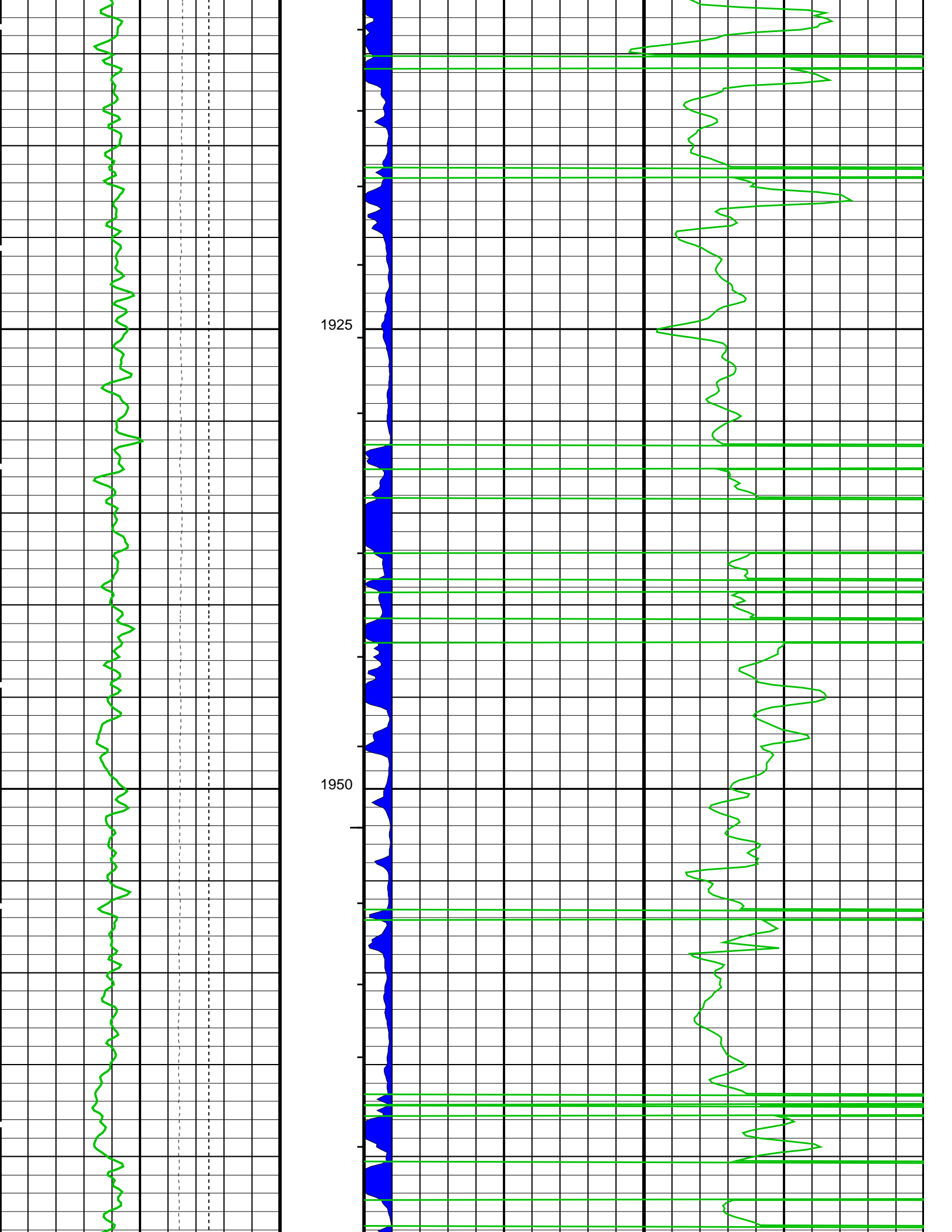
 Time Mark Every 60 S

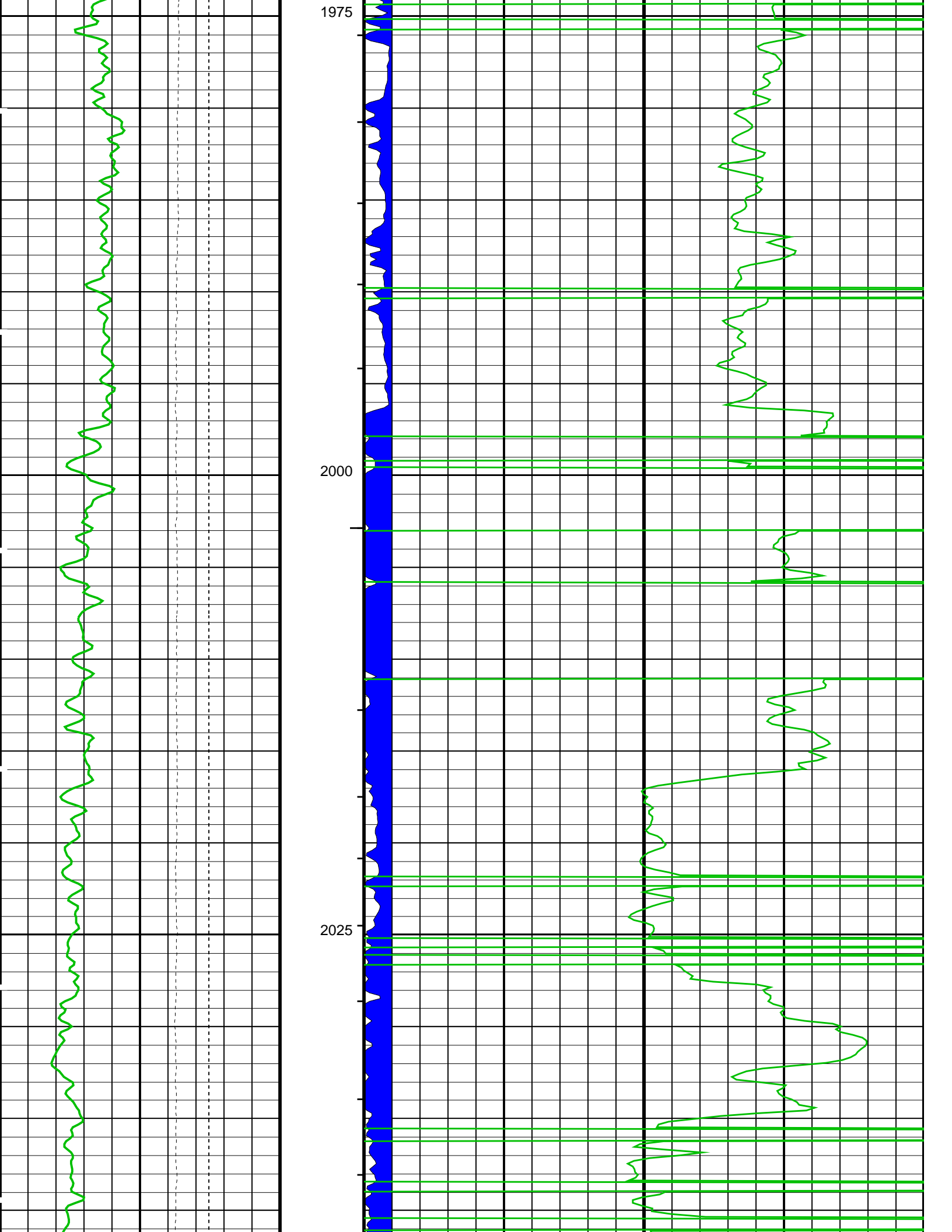
	Tension (TENS)		
	25000 (N)		0
Gamma Ray (GR_EDTC)		Low Comp Coherence Flag	
0	(GAPI)		
Bit Size (BS)		Delta-T Comp - P & S (DT4P)	
125	(MM)	500	100

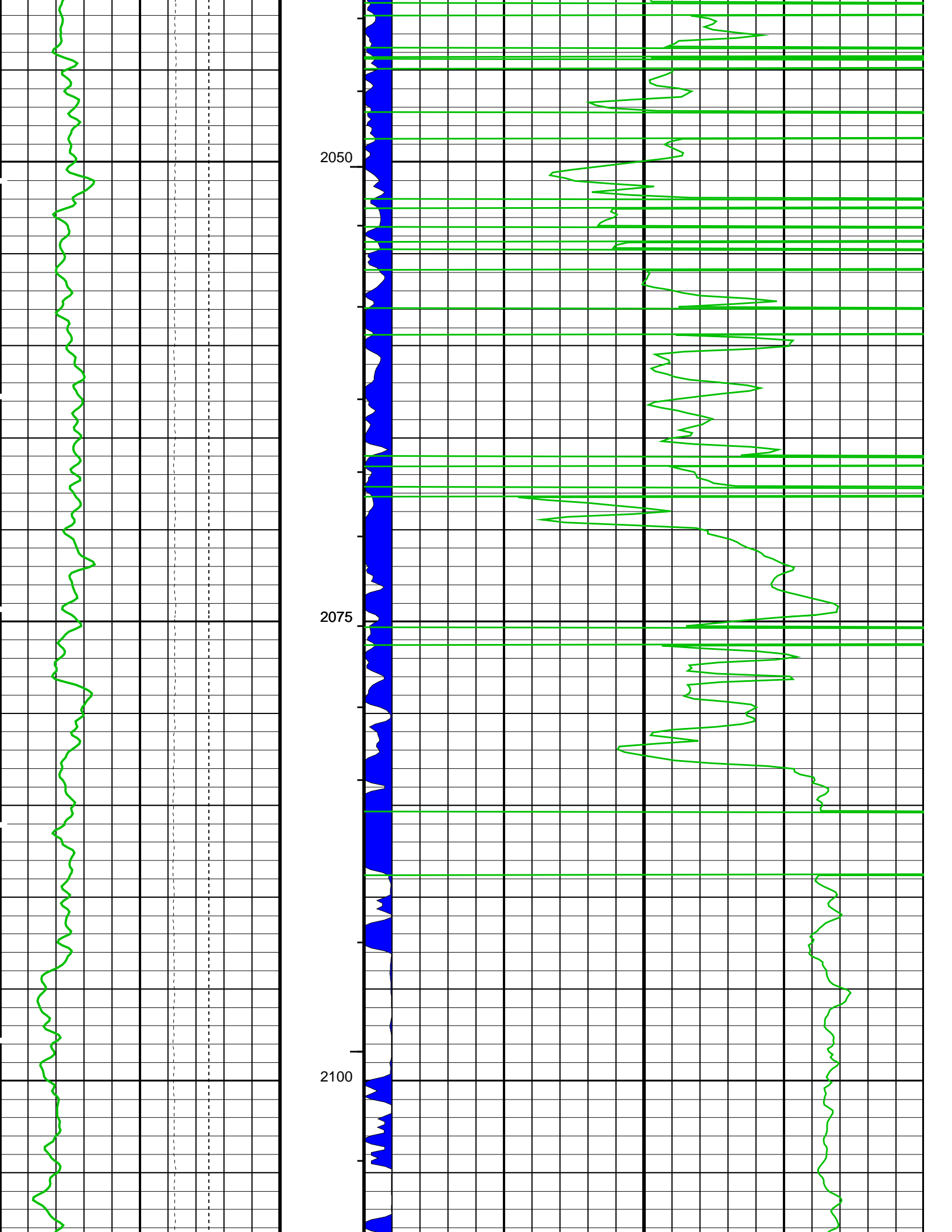
MAIN PASS: DIPOLE SONIC - DELTA-T

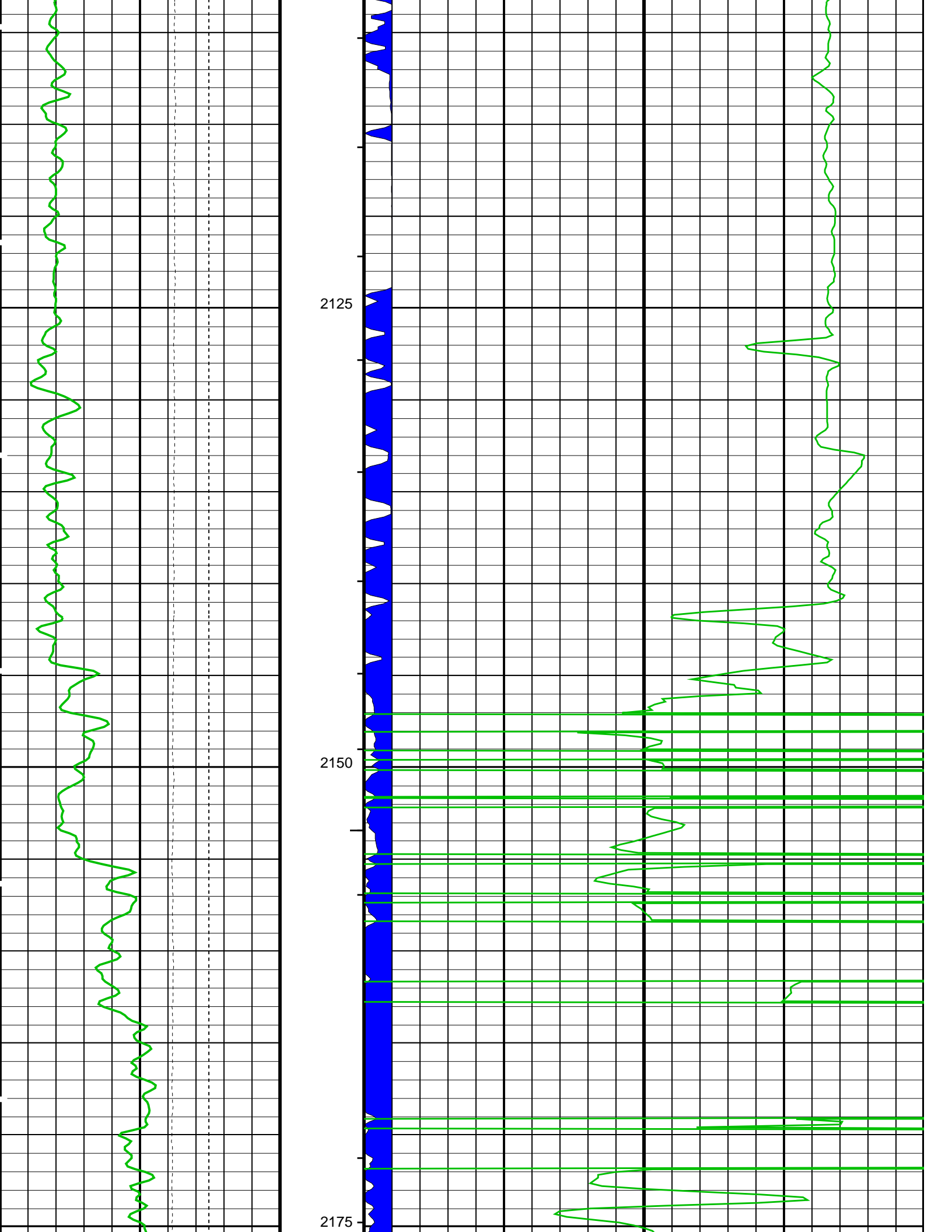


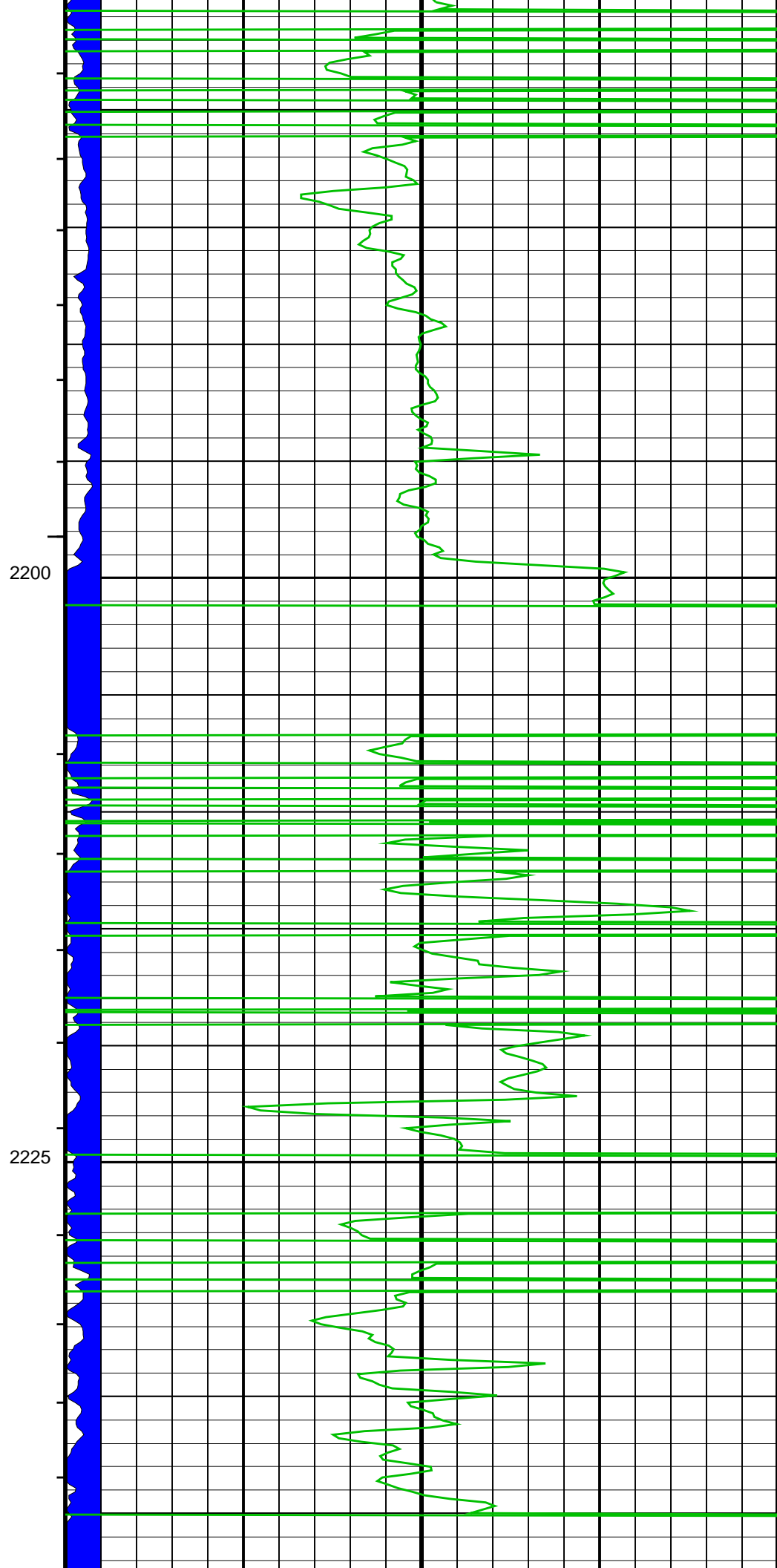
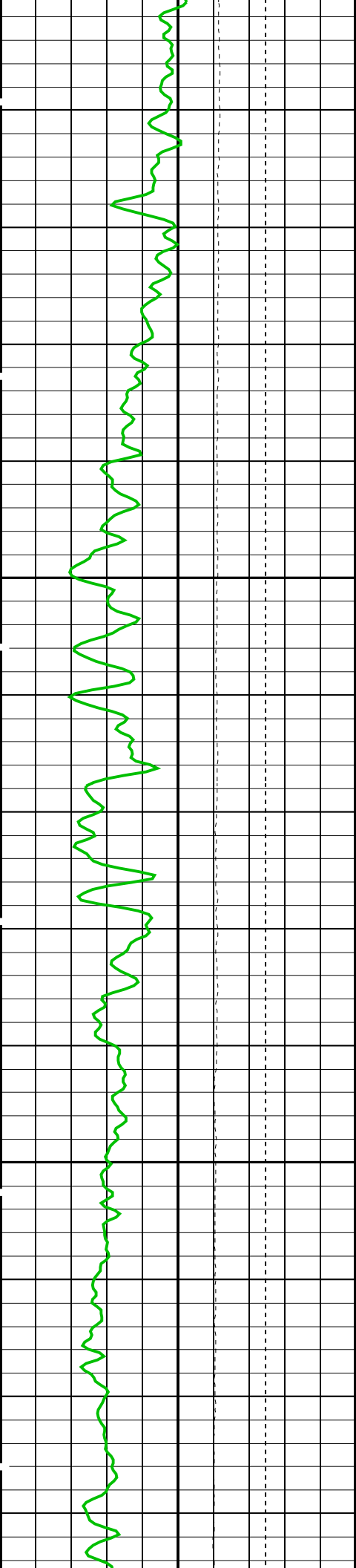


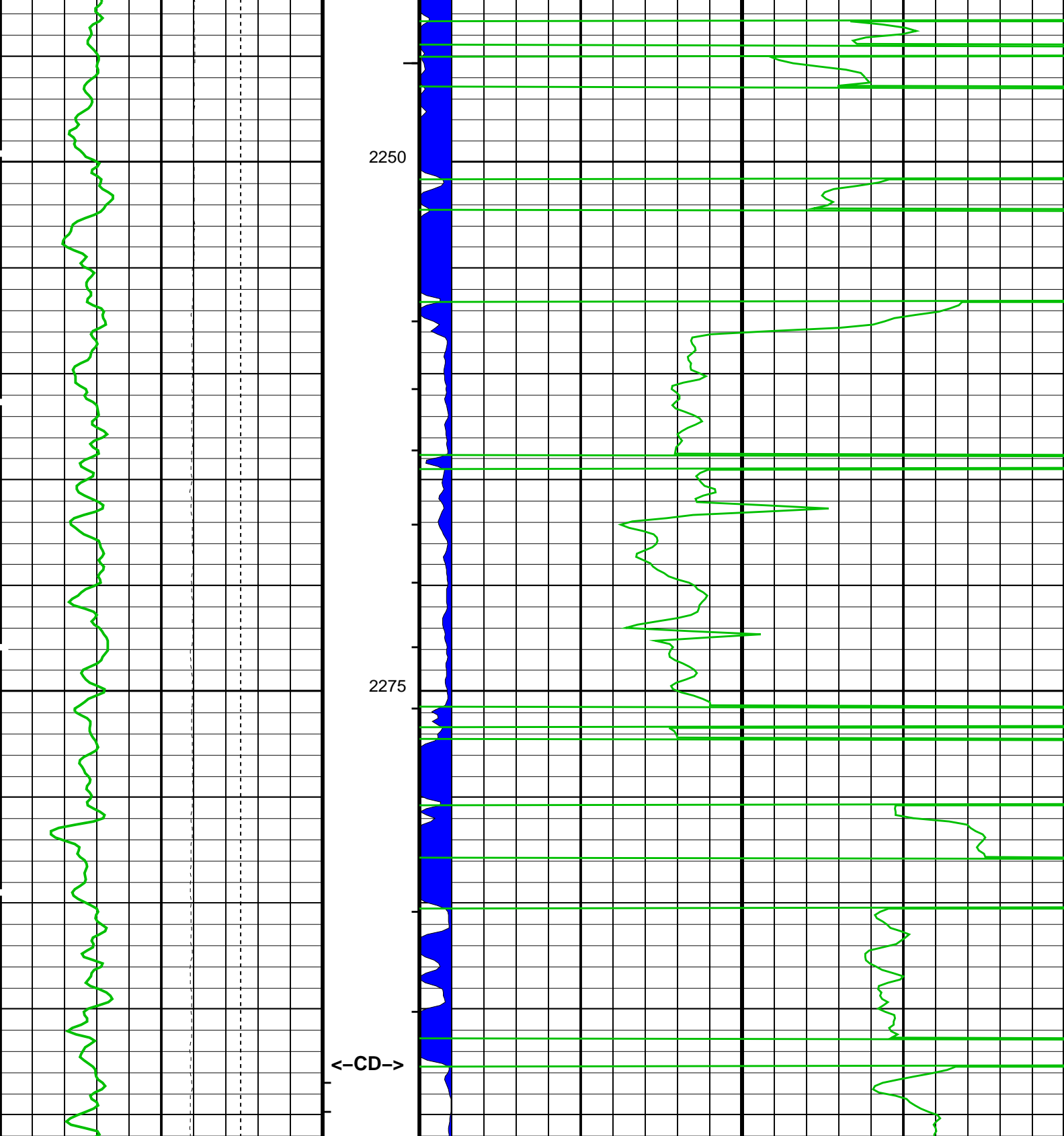












MAIN PASS: DIPOLE SONIC – DELTA-T

Bit Size (BS)		
125	(MM)	375
Gamma Ray (GR_EDTC)		
0	(GAPI)	150
Tension (TENS)		
25000	(N)	0

Delta-T Comp – P & S (DT4P)		
500	(US/M)	100

Low Comp
Coherence Flag

PIP SUMMARY

└ Integrated Hole Volume Minor Pip Every 0.1 M3

— Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
FBST-B: Full-Bore Scanner – B			
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	OFF	
FDBP	FMI Dead Buttons Patching	OFF	
FDFL	FMI DSP Filter Length	1	
FIEQ	FMI Image Equalisation	OFF	
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	-20.9531	DEG
MRTE	Magneto Reference Temperature	19	DEGC
RBS	Resistivity Button Selection	AUTO	
RBSI	Auto RBS Change Interval	10	
SOFF	Standoff	0	MM
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	
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	CASED	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
CASF	Label Casing Function – Monopole P&S	50	
CDTS	C-Delta-T Shale	328.084	US/M
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	131.234	US/M
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	590.551	US/M
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	246.063	US/M
DSHU	Label Slowness Upper Limit – Dipole Shear	2542.65	US/M
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSI3	Digitizer Sample Interval 3	10	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	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
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	
FDE1	Firing Delay 1	0	
FDE2	Firing Delay 2	0	
FDE3	Firing Delay 3	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	131	US/M
FGMX	First Motion Gate Moveout X	131	US/M
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	131.234	US/M
FMRC	Restart Control – FMD	CONTINUE	
FMT5	First Motion Threshold 5	UP	
FMTX	First Motion Threshold X	NONE	
FMUL	Slowness Upper Limit – FMD	590.551	US/M
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	
GA1	Manual Gain 1	10	
GA2	Manual Gain 2	10	
GA3	Manual Gain 3	10	
GA4	Manual Gain 4	16	
GA5	Manual Gain 5	16	
GAIX	Manual Gain X	10	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	20	DEG
GDT1	Gain Delta–T 1	2625	US/M
GDT2	Gain Delta–T 2	2625	US/M
GDT3	Gain Delta–T 3	2625	US/M
GDT4	Gain Delta–T 4	525	US/M
GDT5	Gain Delta–T 5	525	US/M
GDTX	Gain Delta–T X	2625	US/M
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
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	
ISSBAR	Barite Mud Switch	NOBARITE	
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	3962	MM
MAI5	Slowness Averaging Interval – FMD	1067	MM
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCS	Mean Casing Slowness	187.008	US/M
MDS5	Multishot Delta–T Scatter – FMD	20	US
MTXG	Monopole Transmitter Geometry	4724	MM
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	
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	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
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	OFF	
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	246.063	US/M
SHT	Surface Hole Temperature	30	DEGC
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SLL1	STC Slowness Lower Limit – Lower Dipole	246.063	US/M
SLL2	STC Slowness Lower Limit – Upper Dipole	246.063	US/M
SLL3	STC Slowness Lower Limit – Monopole Stoneley	590.551	US/M
SLL4	STC Slowness Lower Limit – Monopole P&S	131.234	US/M
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
SST1	STC Slowness Step – Lower Dipole	13.1234	US/M
SST2	STC Slowness Step – Upper Dipole	13.1234	US/M
SST3	STC Slowness Step – Monopole Stoneley	13.1234	US/M
SST4	STC Slowness Step – Monopole P&S	6.56168	US/M
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	590.551	US/M
STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL1	STC Slowness Upper Limit – Lower Dipole	2542.65	US/M
SUL2	STC Slowness Upper Limit – Upper Dipole	2542.65	US/M
SUL3	STC Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL4	STC Slowness Upper Limit – Monopole P&S	787.402	US/M
SWD1	STC Slowness Width – Lower Dipole	131.234	US/M
SWD2	STC Slowness Width – Upper Dipole	131.234	US/M
SWD3	STC Slowness Width – Monopole Stoneley	131.234	US/M
SWD4	STC Slowness Width – Monopole P&S	32.8084	US/M
TBDB	Tool String Bottom to DSST Bottom	10030.5	MM
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	23716	MM
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	5110	US

TUL3	STC Time Upper Limit – Monopole Stoneley	3660	US
TUL4	STC Time Upper Limit – Monopole P&S		
TWA1	Transmitter Waveform Amplitude 1	179	
TWA2	Transmitter Waveform Amplitude 2	179	
TWA3	Transmitter Waveform Amplitude 3	179	
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	0	
TWS4	Transmitter Waveform Select 4	6	
TWS5	Transmitter Waveform Select 5	6	
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	4115	MM
WFDTSP1	SAM1 Waveform Delta for Spectrum	0	US/M
WFDTSP2	SAM2 Waveform Delta for Spectrum	0	US/M
WFDTSP3	SAM3 Waveform Delta for Spectrum	0	US/M
WFDTSP4	SAM4 Waveform Delta for Spectrum	0	US/M
WFDTSPX	SAMX Waveform Delta for Spectrum	0	US/M
WFLSP1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLSP2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLSP3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLSP4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLSPX	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	DLO	
XMT2	Transmitter Select 2	DUP	
XMT3	Transmitter Select 3	NONE	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	DUP	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
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	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	30	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	

CSBL	DIP Tool	FBST	
DPAD	CSB DIP Number of Levels	2L	
ELRA	Disabled Pad	NONE	
INT	Electrical Radius	12.7	MM
SANG	Correlation Interval	1.2192	M
SBUT	Correlation Search Angle	35	DEG
SDFA	DIP Set of Buttons	MSD	
SPAN	Side-by-Side Distance Factor	22.86	MM
STDA	DIP Spanning	1/4	
STDI	Structural DIP Azimuth	0	DEG
STEP	Structural DIP Angle	0	DEG
	Correlation Step	0.6096	M
	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	0	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	CASED	
BHT	Bottom Hole Temperature (used in calculations)	60.2	DEGC
FCD	Future Casing (Outer) Diameter	177.8	MM
GCSE	Generalized Caliper Selection	BS	
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	C1/C2	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	30	DEGC
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.5	M
TDD	Total Depth – Driller	3160.00	M
TDL	Total Depth – Logger	3129.20	M
	System and Miscellaneous		
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	311.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	244.500	MM
CWEI	Casing Weight	64.74	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	10.6	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	21.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.7100	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	3129.2	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: DSI_DTSONIC_D240 Vertical Scale: 1:240 Graphics File Created: 17-May-2010 19:12

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

Input DLIS Files

FMI_CAL_DSI_053LUP	FN:75	16-May-2010 15:00	3106.5 M	1793.3 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_213PUP	FN:16	PRODUCER	17-May-2010 19:12
CUSTOMER	FMI_CAL_DSI_213PUC	FN:17	CUSTOMER	17-May-2010 19:12

MAXIS Field Log

Input DLIS Files

FMI_CAL_DSI_055LUP

FN:77

16-May-2010 15:01

1833.7 M

1486.1 M

Output DLIS Files

DEFAULT

FMI_CAL_DSI_215PUP

FN:20

PRODUCER

17-May-2010 19:47

1842.8 M

1495.2 M

CUSTOMER

FMI_CAL_DSI_215PUC

FN:21

CUSTOMER

17-May-2010 19:47

1842.8 M

1495.2 M

OP System Version: 17C0-154

FBST-B

17C0-154

PPC2-B

17C0-154

DSST-B

17C0-154

PPC1-B

17C0-154

EDTC-B

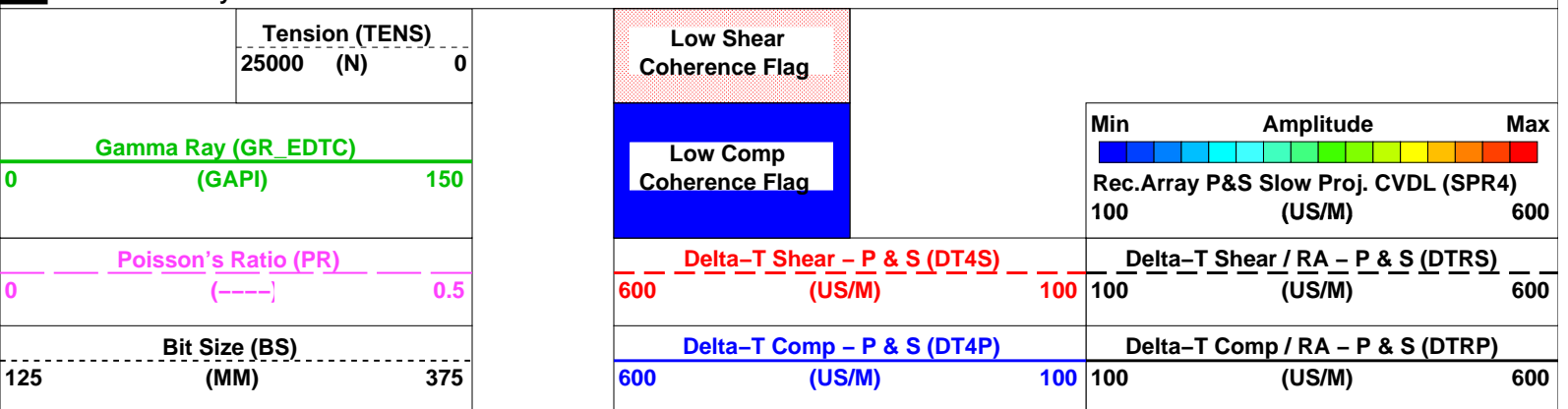
SKK-3882-EDTCB_b

DTPC-A

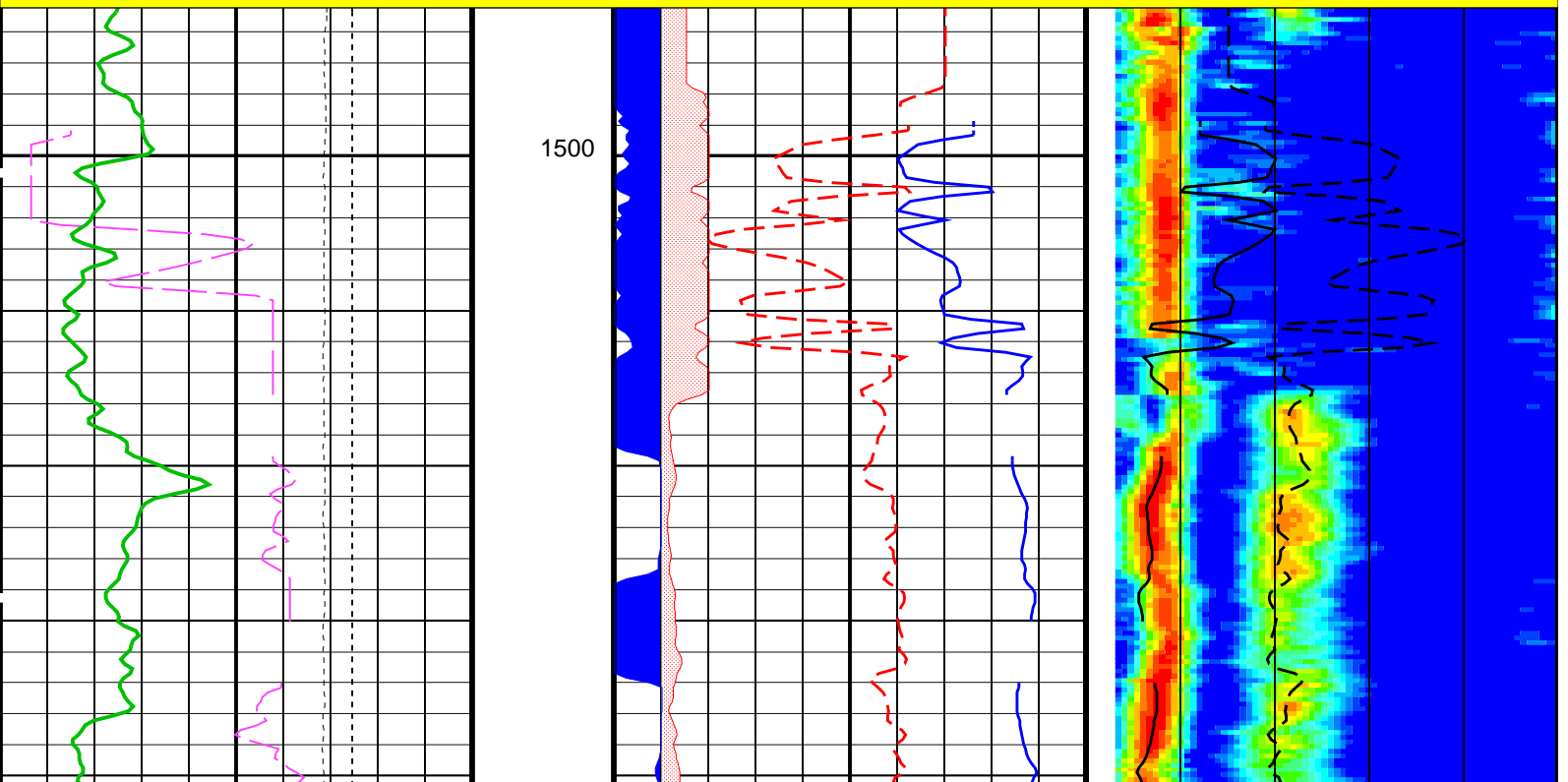
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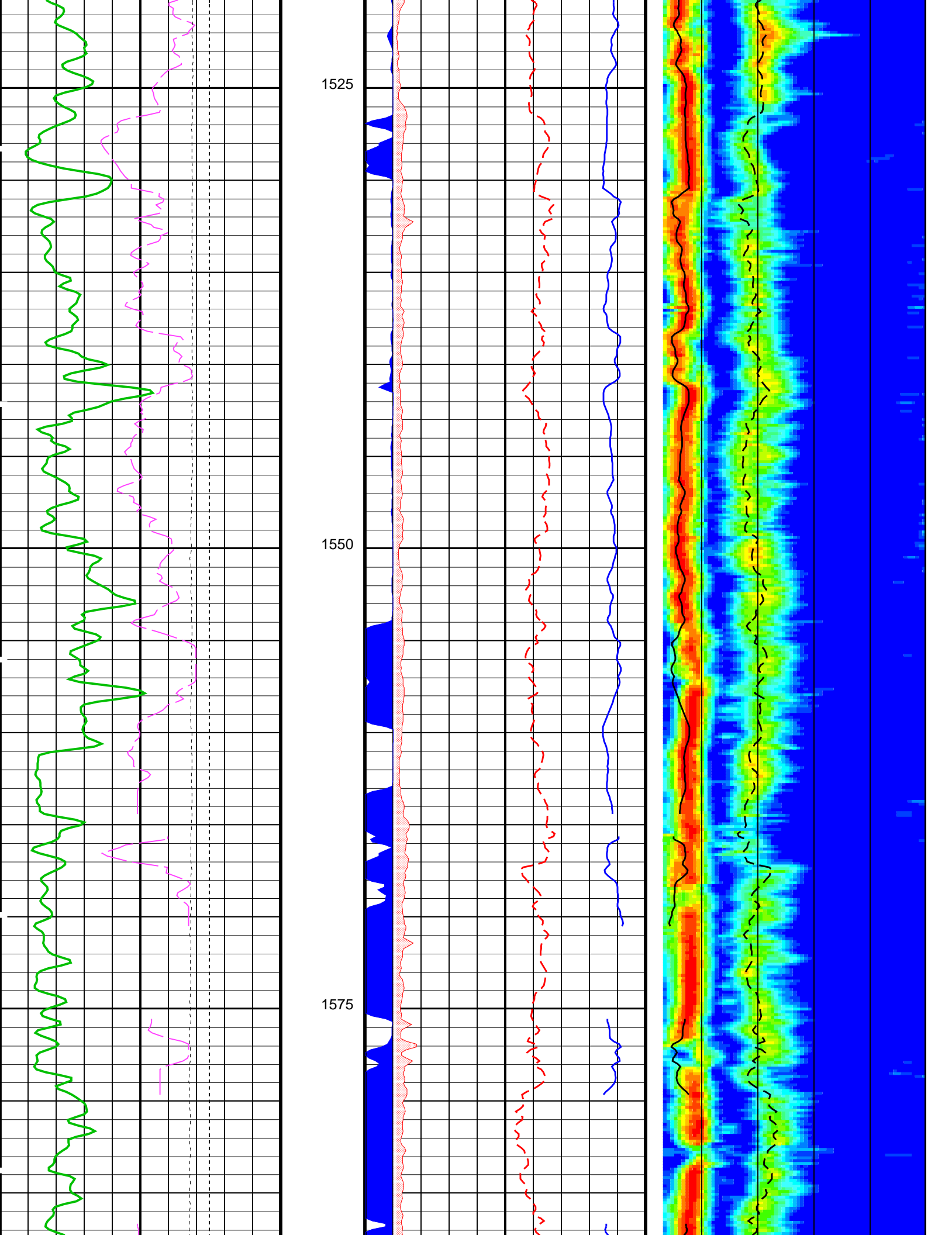
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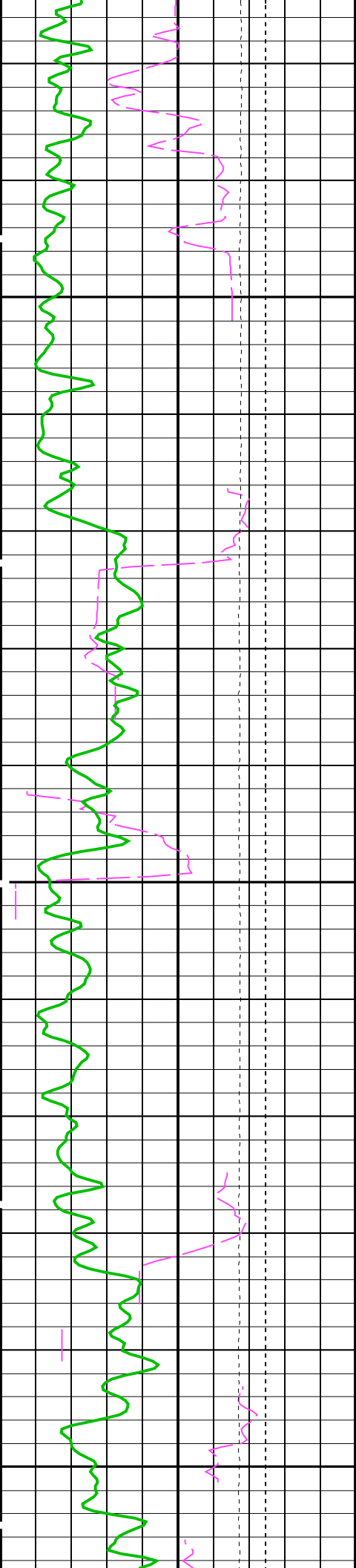
Time Mark Every 60 S



MAIN PASS: DIPOLE SONIC - P & S IMAGE



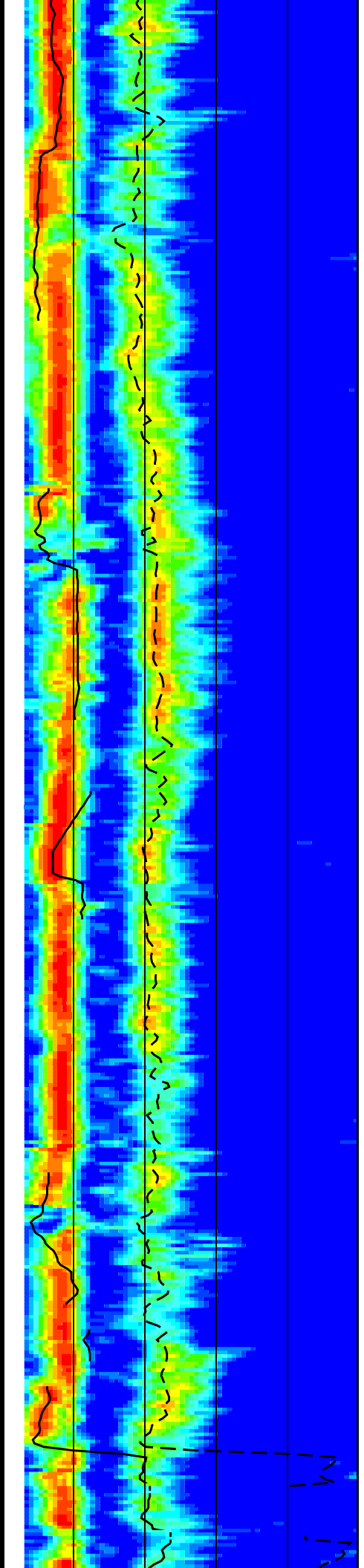
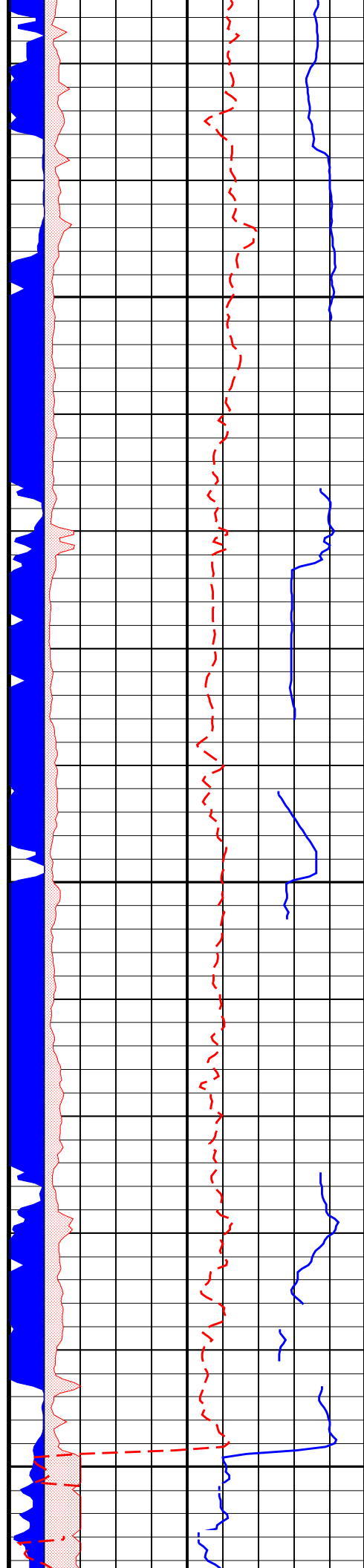


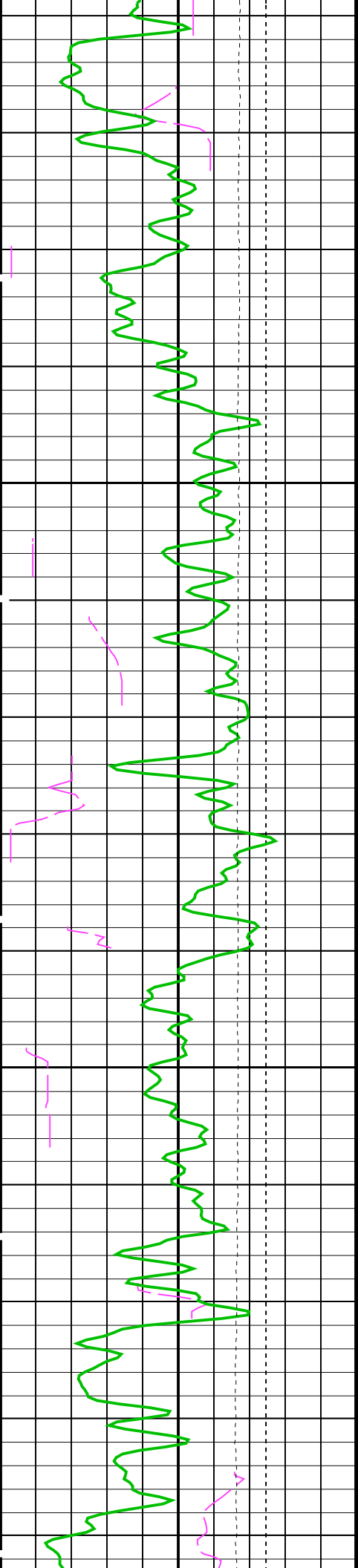


1600

1625

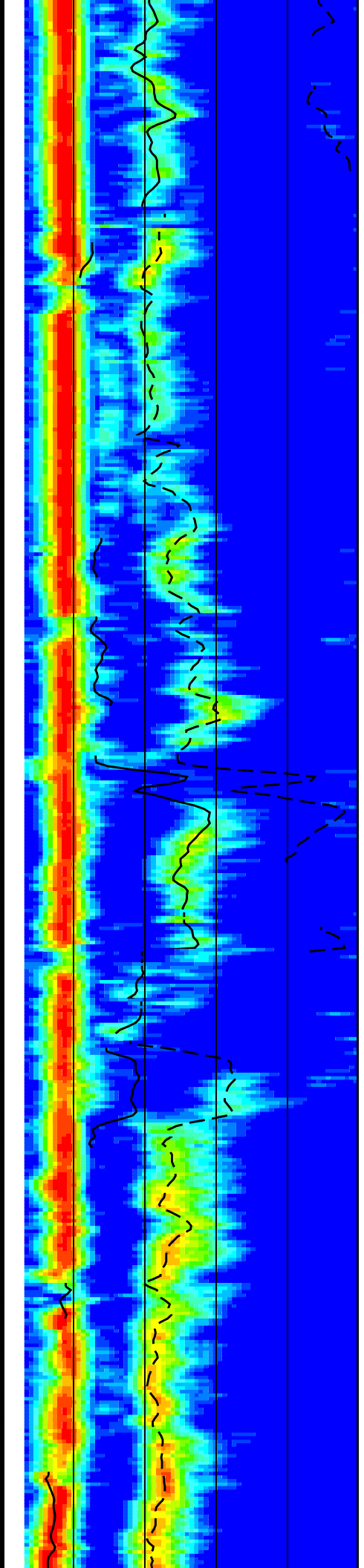
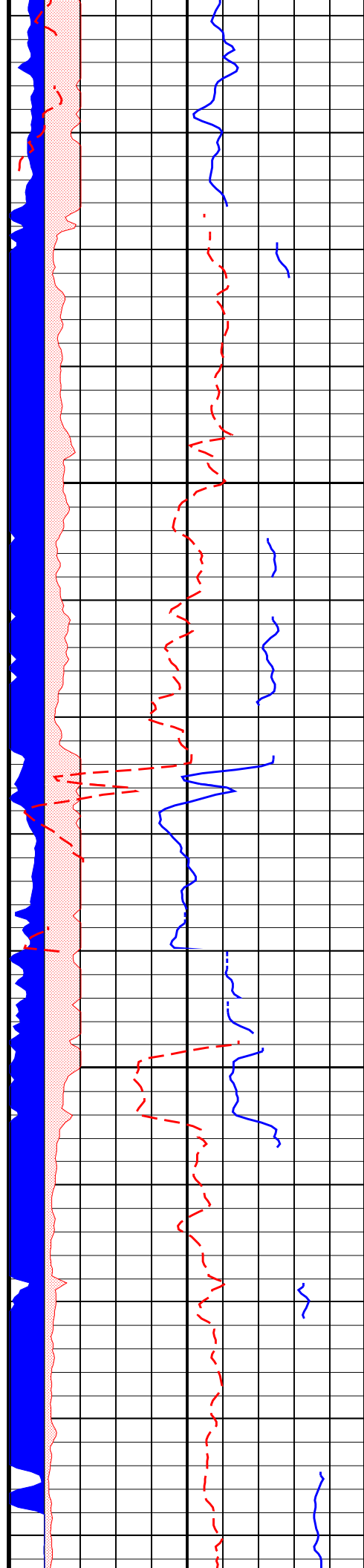
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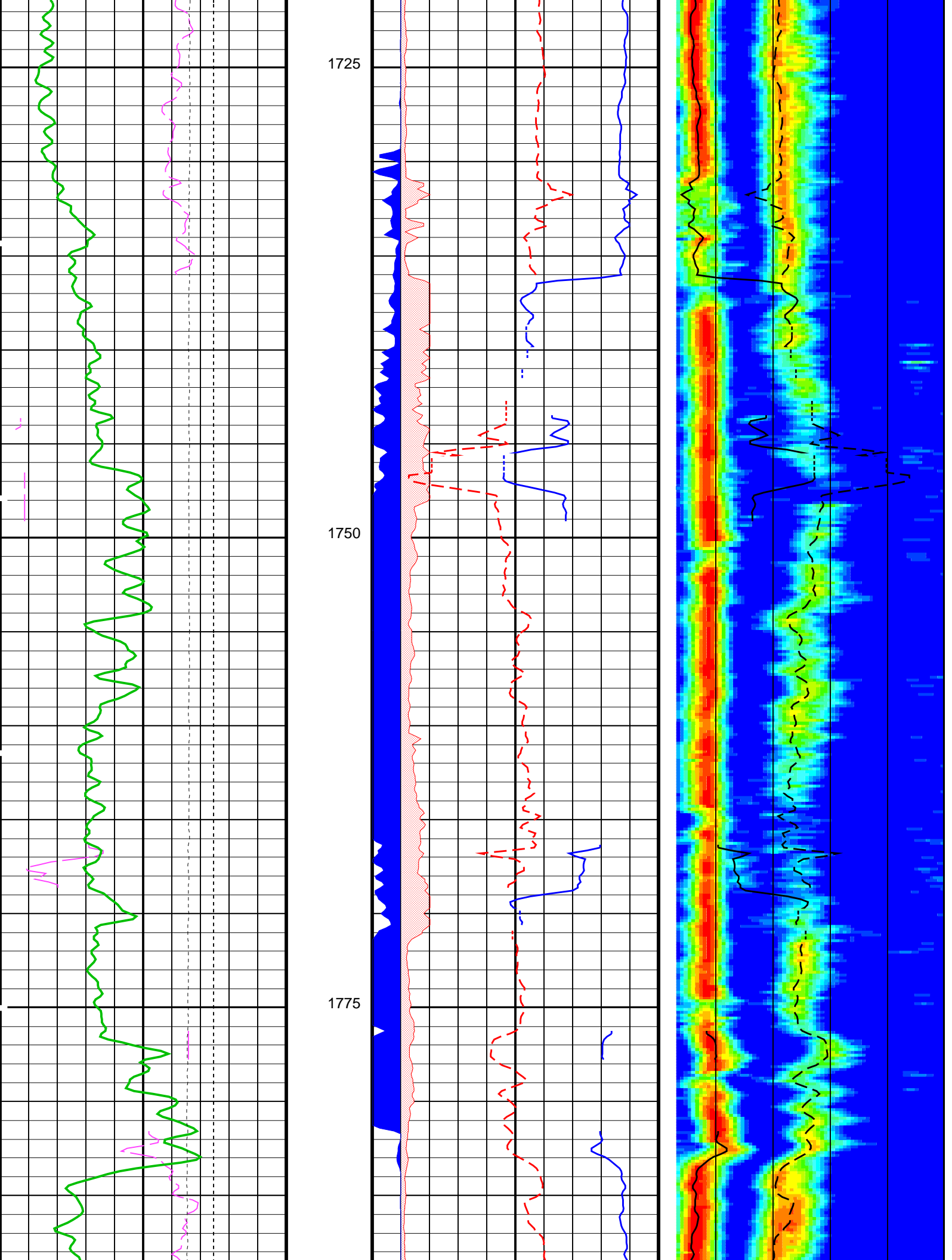


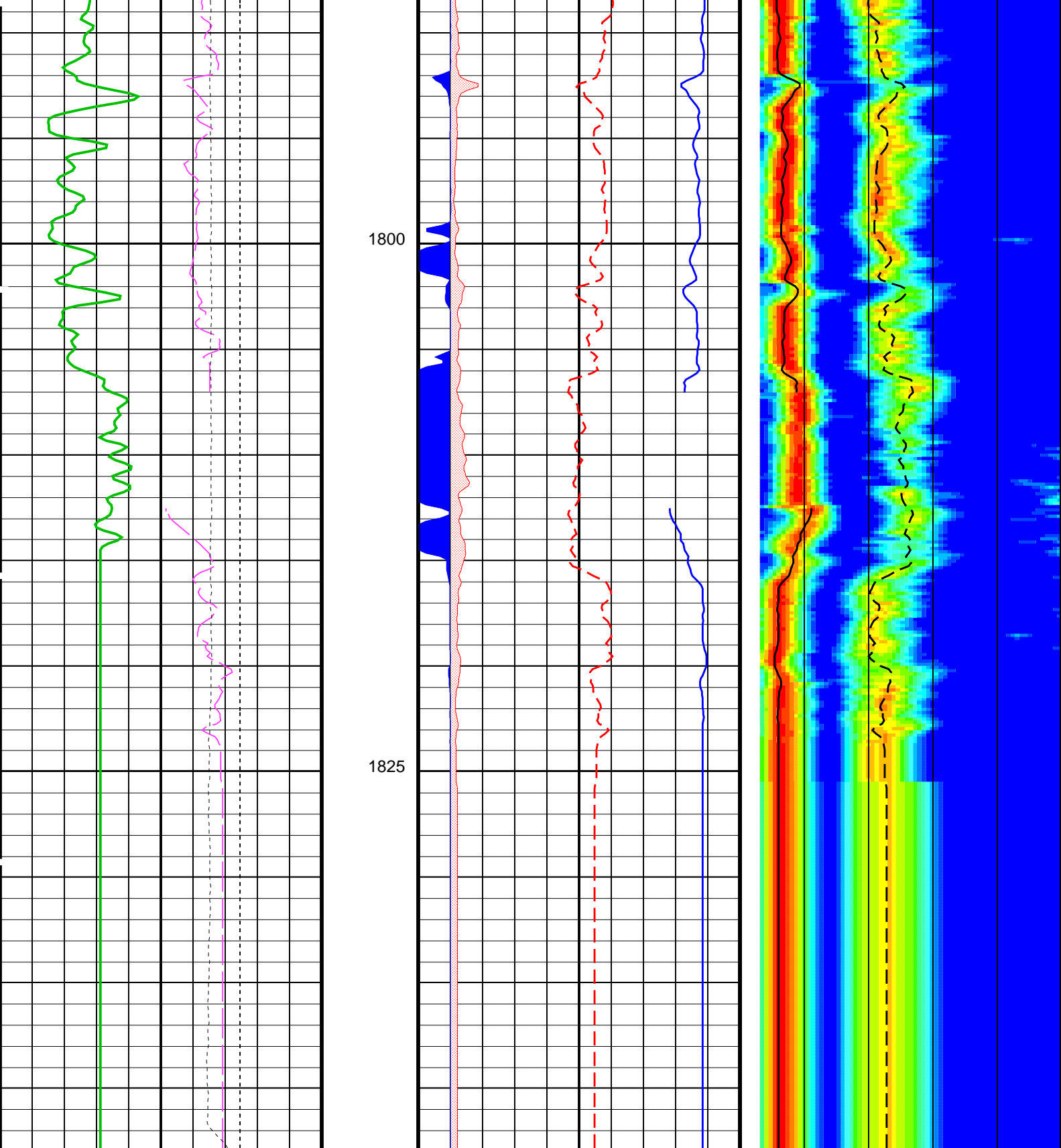


1675

1700







MAIN PASS: DIPOLE SONIC – P & S IMAGE

Bit Size (BS)		
125	(MM)	375
Poisson's Ratio (PR)		
0	(-----)	0.5
Gamma Ray (GR_EDTC)		
0	(GAPI)	150

Delta-T Comp – P & S (DT4P)		
600	(US/M)	100
Delta-T Shear – P & S (DT4S)		
600	(US/M)	100
Low Comp Coherence Flag		

Delta-T Comp / RA – P & S (DTRP)		
100	(US/M)	600
Delta-T Shear / RA – P & S (DTRS)		
100	(US/M)	600
Min Amplitude Max		
Rec.Array P&S Slow Proj. CVDL (SPR4)		
100	(US/M)	600

	Tension (TENS)		Low Shear
25000	(N)	0	Coherence Flag

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	CASED	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	131.234	US/M
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	590.551	US/M
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta–T Source for DTCO Channel	PS_COMP	
DTF	Delta–T Fluid	670.932	US/M
DTSS	Shear Delta–T Source for DTSM Channel	PS_SHEAR	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	187.008	US/M
MTXG	Monopole Transmitter Geometry	4724	MM
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
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	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	246.063	US/M
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SLL4	STC Slowness Lower Limit – Monopole P&S	131.234	US/M
SST4	STC Slowness Step – Monopole P&S	6.56168	US/M
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	590.551	US/M
STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL4	STC Slowness Upper Limit – Monopole P&S	787.402	US/M
SWD4	STC Slowness Width – Monopole P&S	32.8084	US/M
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	CASED	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along–hole depth of Tie–in Point	0	M
TIVD	TVD of Tie–in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	CASED	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.5	M
TDD	Total Depth – Driller	3160.00	M
TDL	Total Depth – Logger	3129.20	M
System and Miscellaneous			
BS	Bit Size	311.000	MM
DO	Depth Offset for Playback	9.2	M
PP	Playback Processing	RECOMPUTE	

OP System Version: 17C0-154

FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB b	DTPC-A	SKK-3882-EDTCB b

Input DLIS Files

FMI CAL DSI 055LUP	FN:77	16-May-2010 15:01	1833.7 M	1486.1 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_215PUP	FN:20	PRODUCER	17-May-2010 19:47
CUSTOMER	FMI CAL DSI 215PUC	FN:21	CUSTOMER	17-May-2010 19:47

Input DLIS Files

FMI CAL DSI 053LUP	FN:75	16-May-2010 15:00	3106.5 M	1793.3 M
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Output DLIS Files

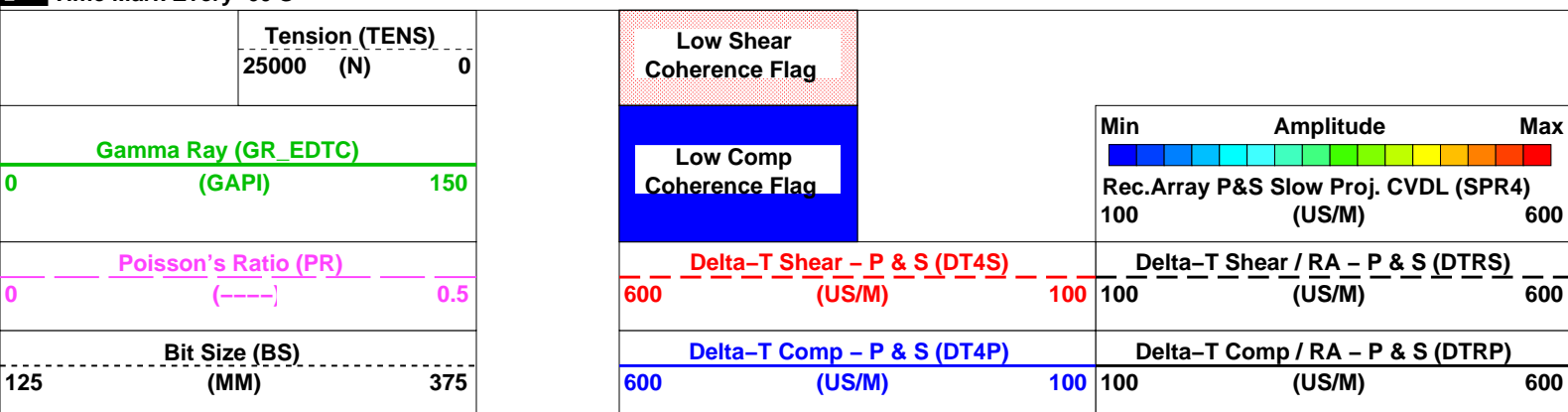
DEFAULT	FMI_CAL_DSI_213PUP	FN:16	PRODUCER	17-May-2010 19:12	2296.1 M	1804.1 M
CUSTOMER	FMI CAL DSI 213PUC	FN:17	CUSTOMER	17-May-2010 19:12	2296.1 M	1804.1 M

OP System Version: 17C0-154

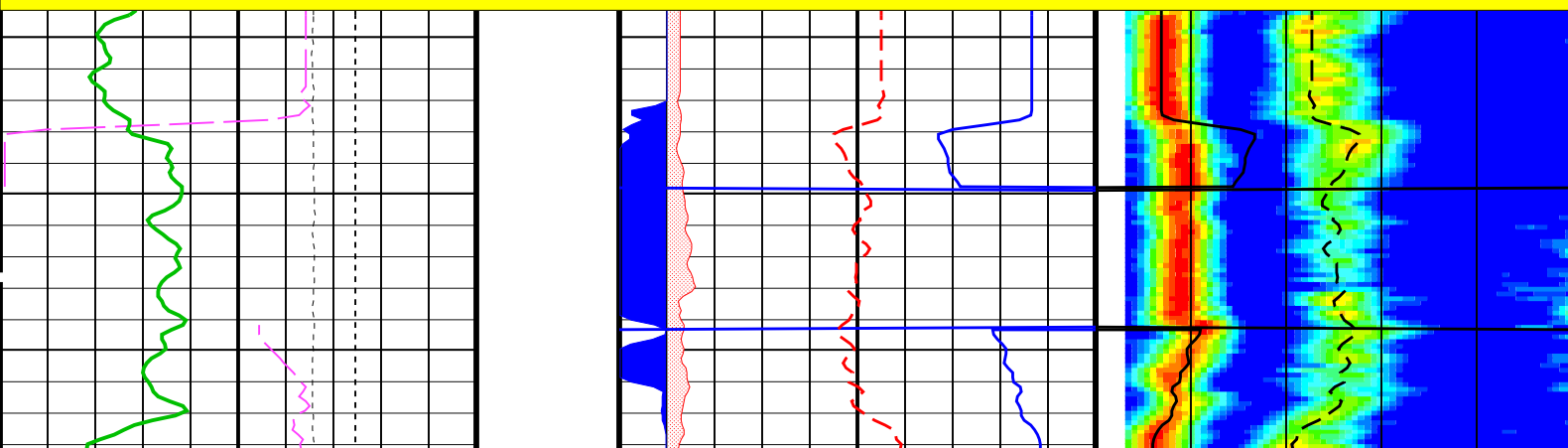
FBST-B	17C0-154	PPC2-B	17C0-154
DSST-B	17C0-154	PPC1-B	17C0-154
EDTC-B	SKK-3882-EDTCB_b	DTPC-A	SKK-3882-EDTCB_b

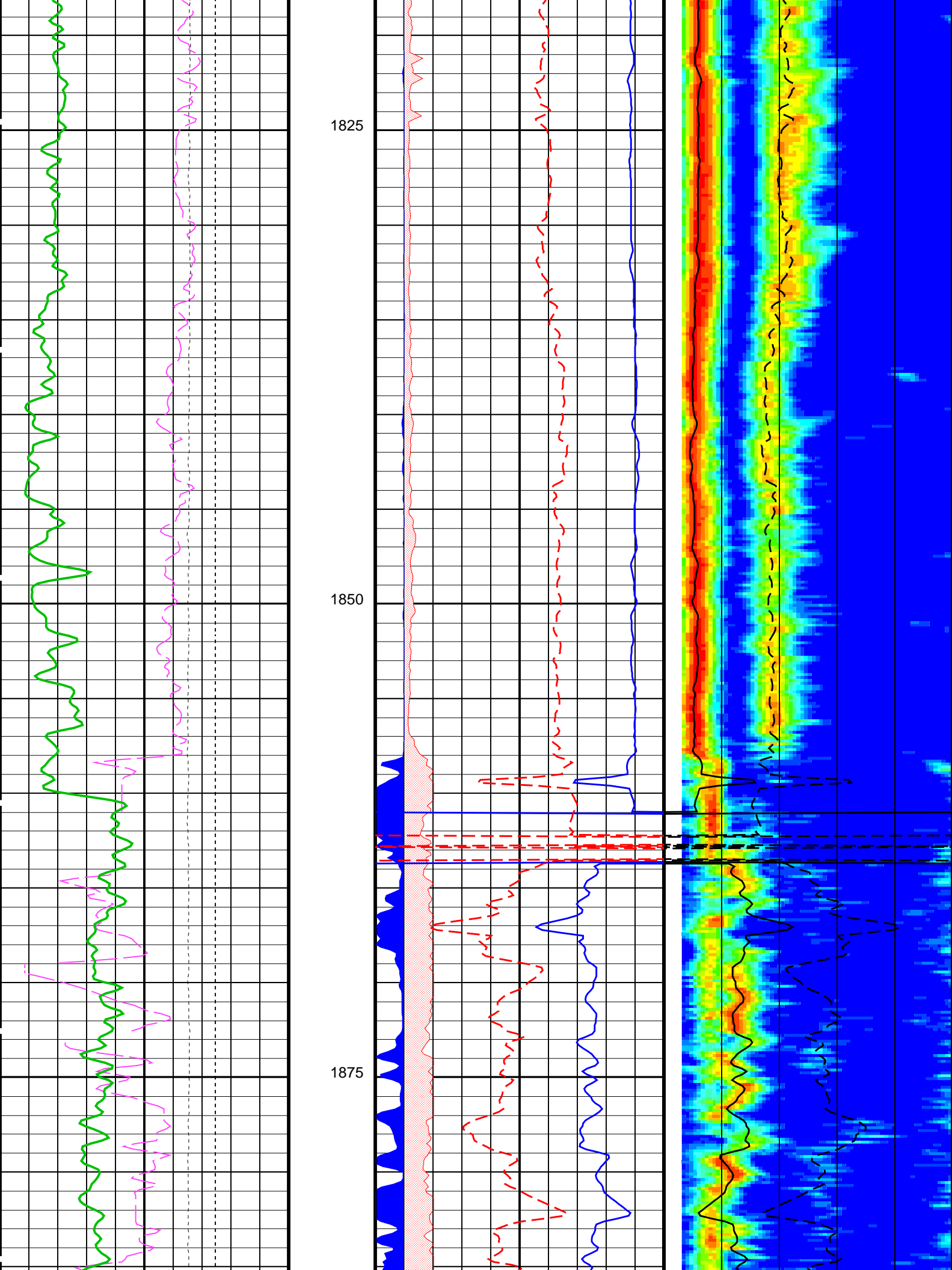
PIP SUMMARY

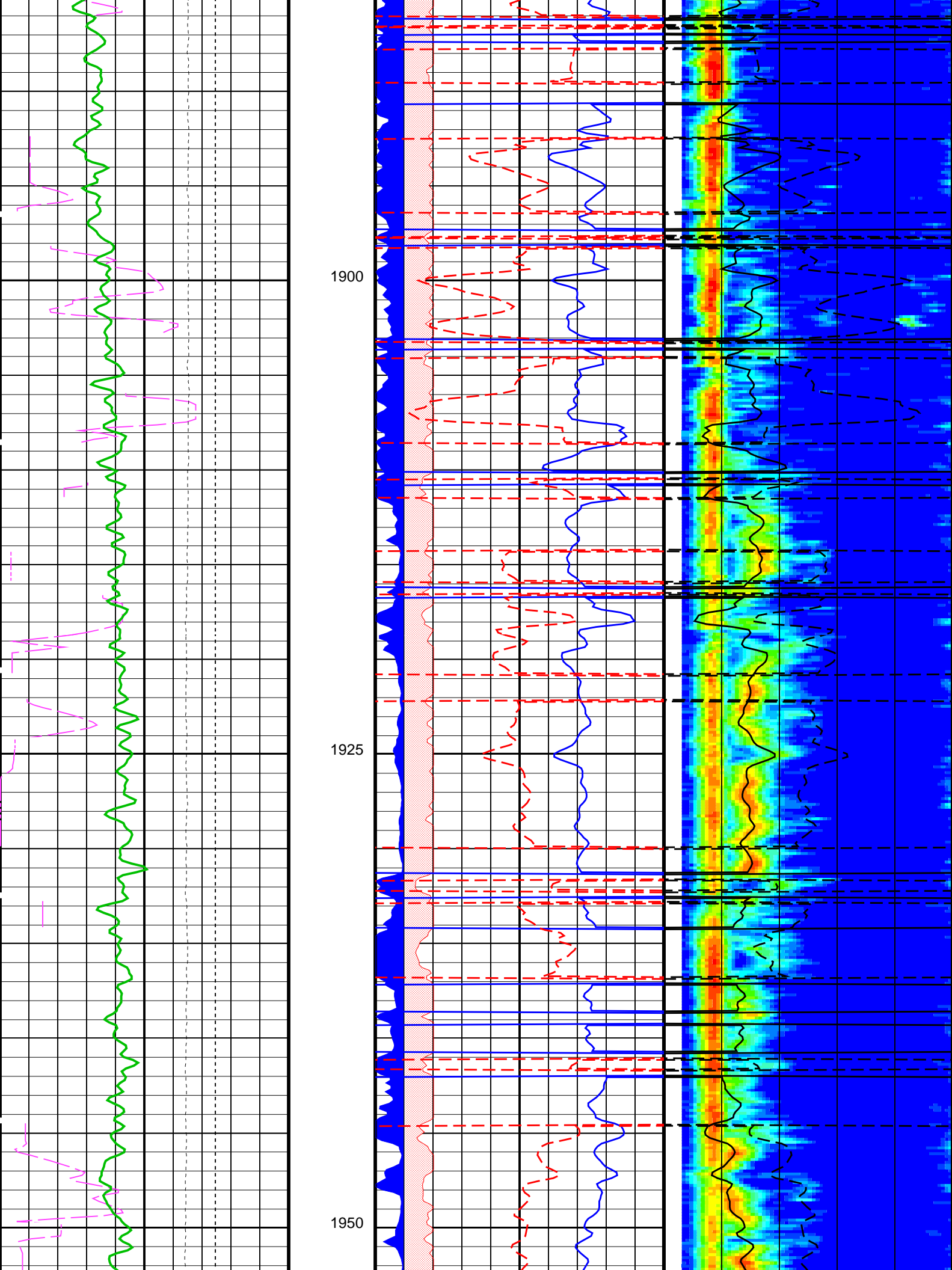
Time Mark Every 60 S

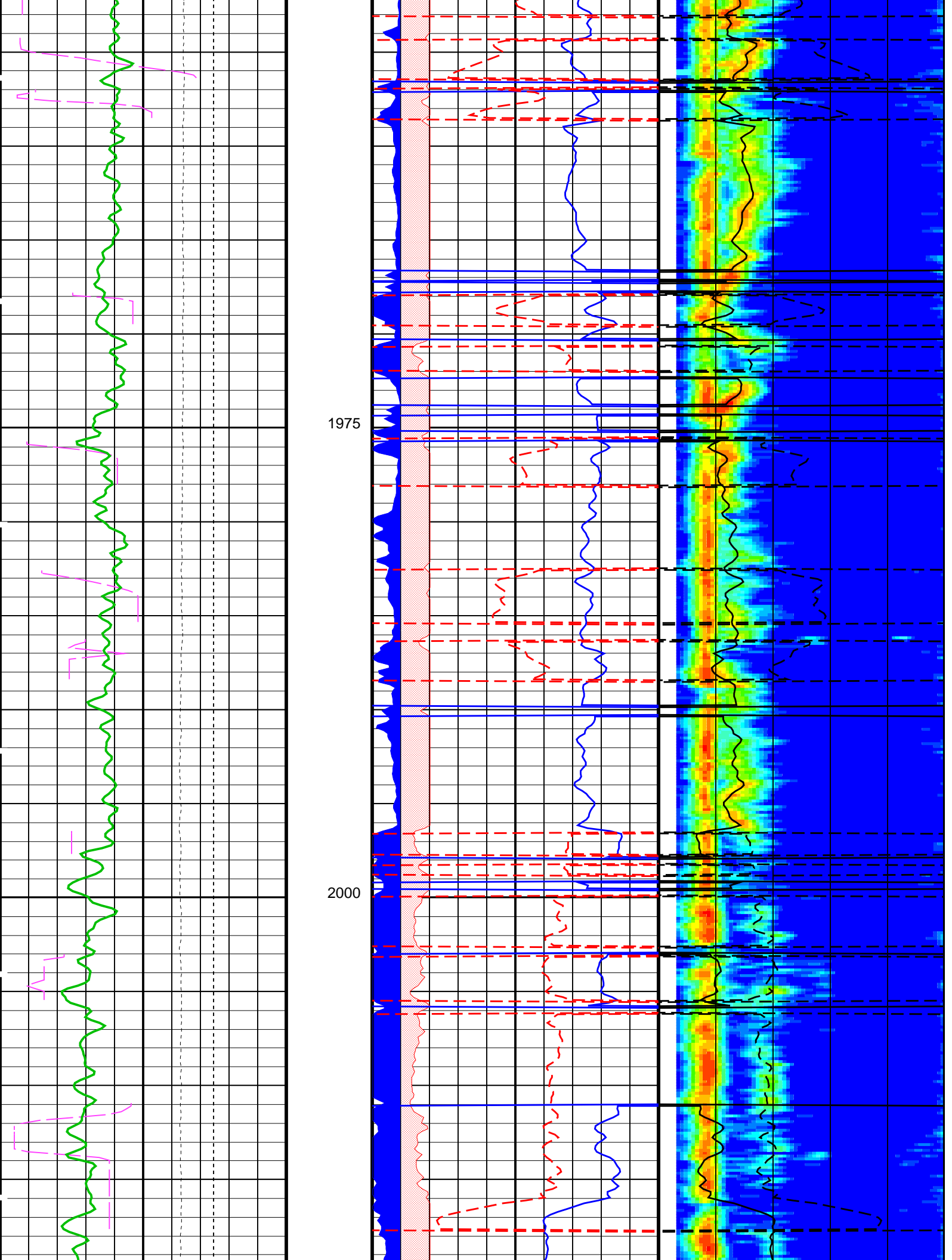


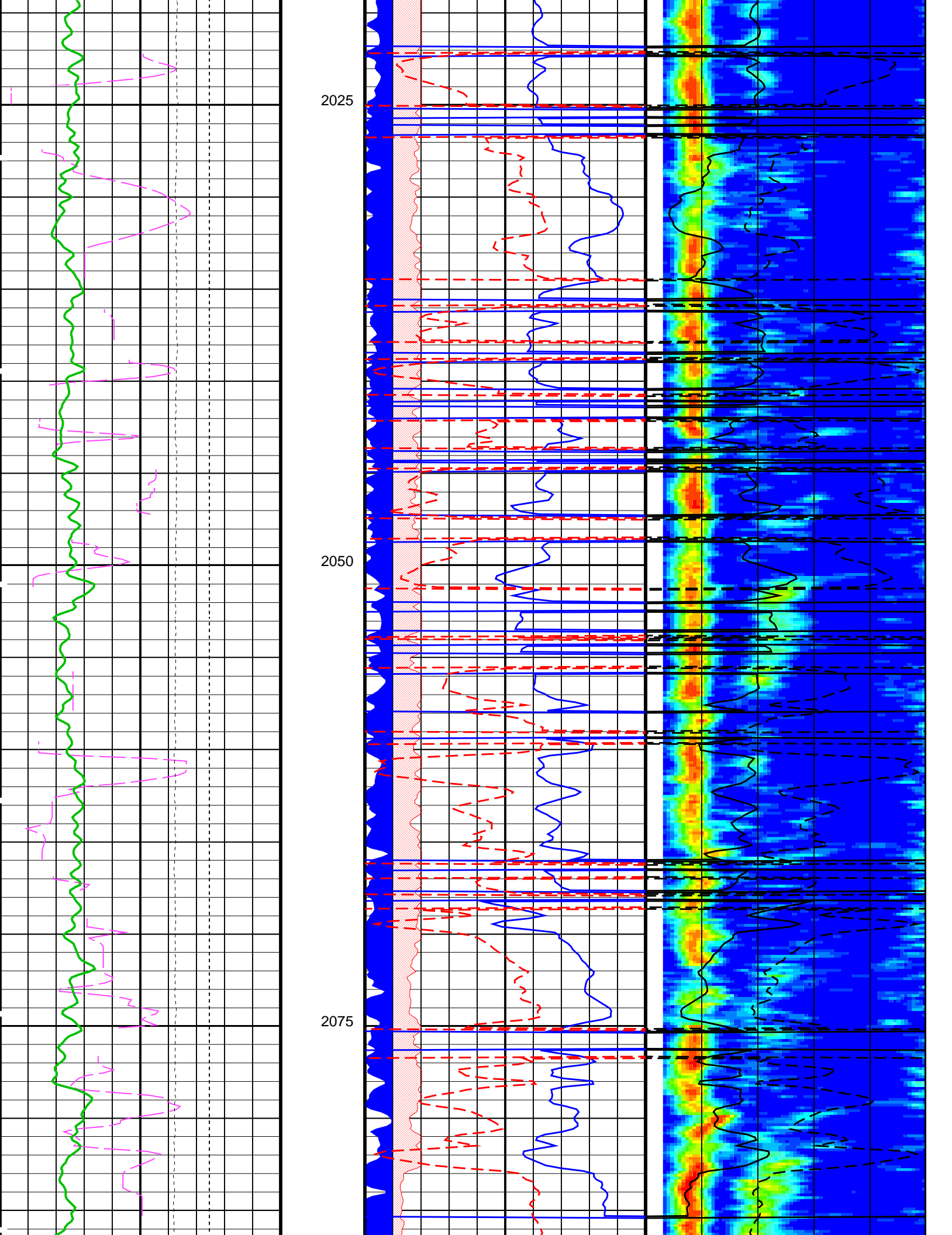
MAIN PASS: DIPOLE SONIC – P & S IMAGE

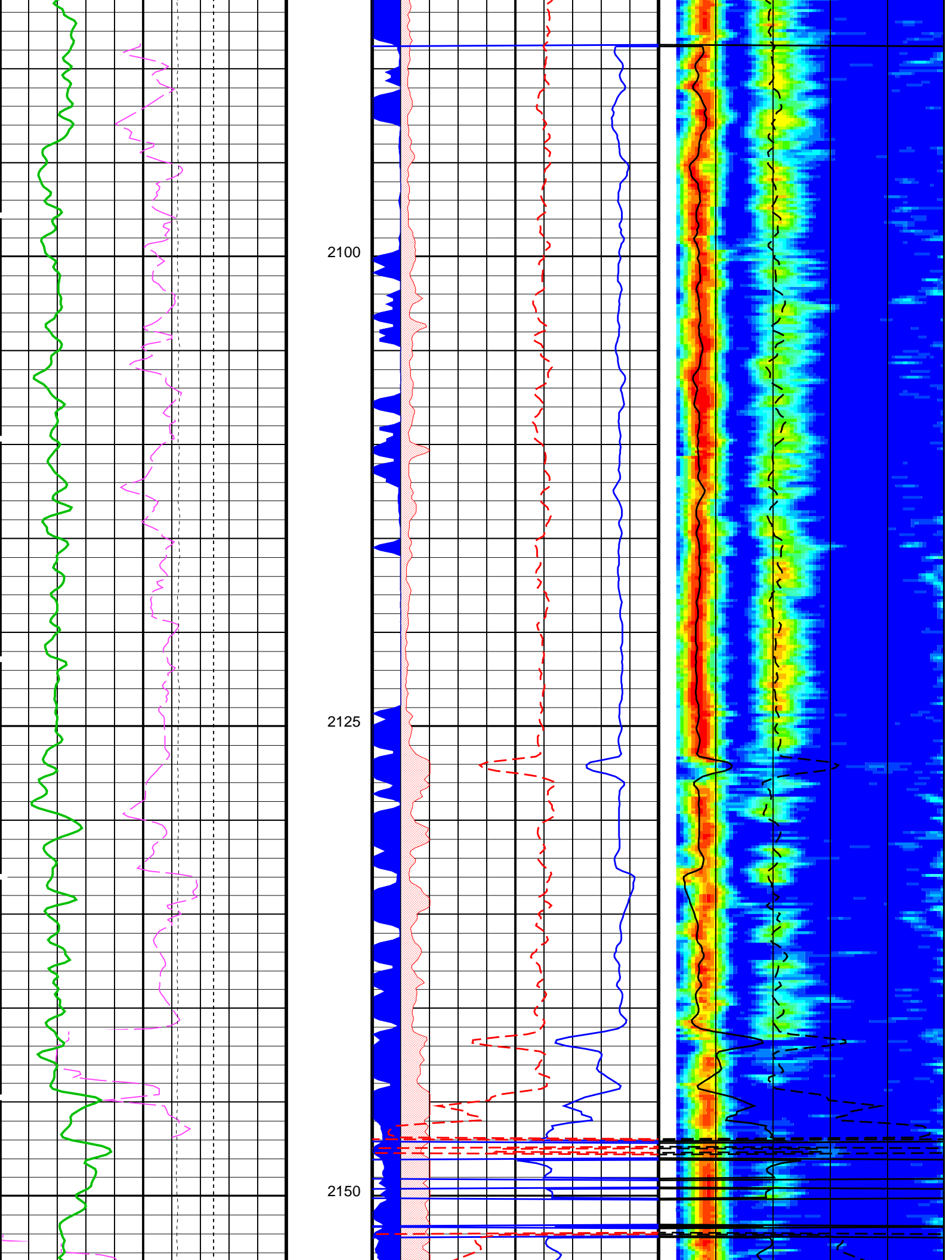


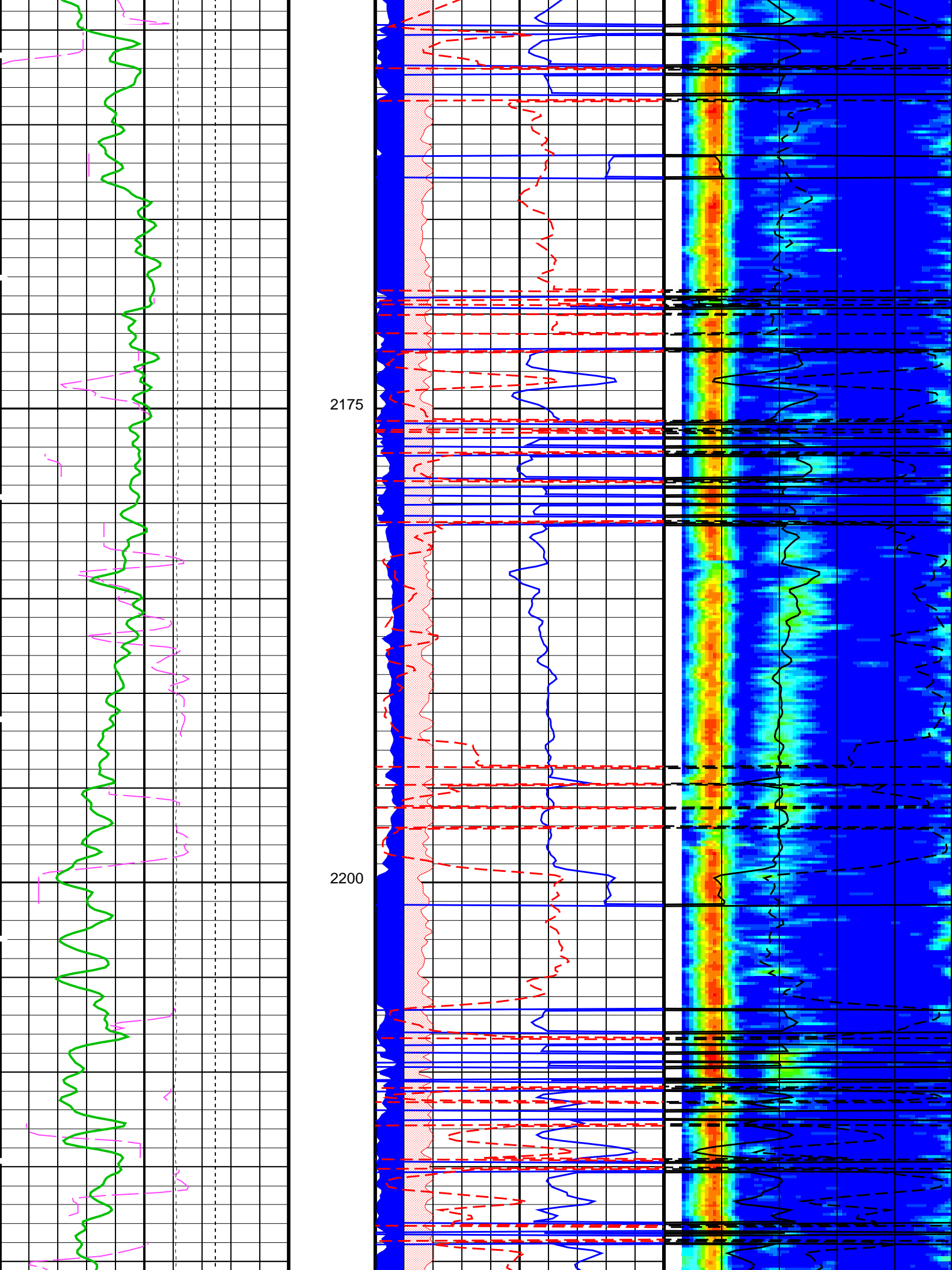


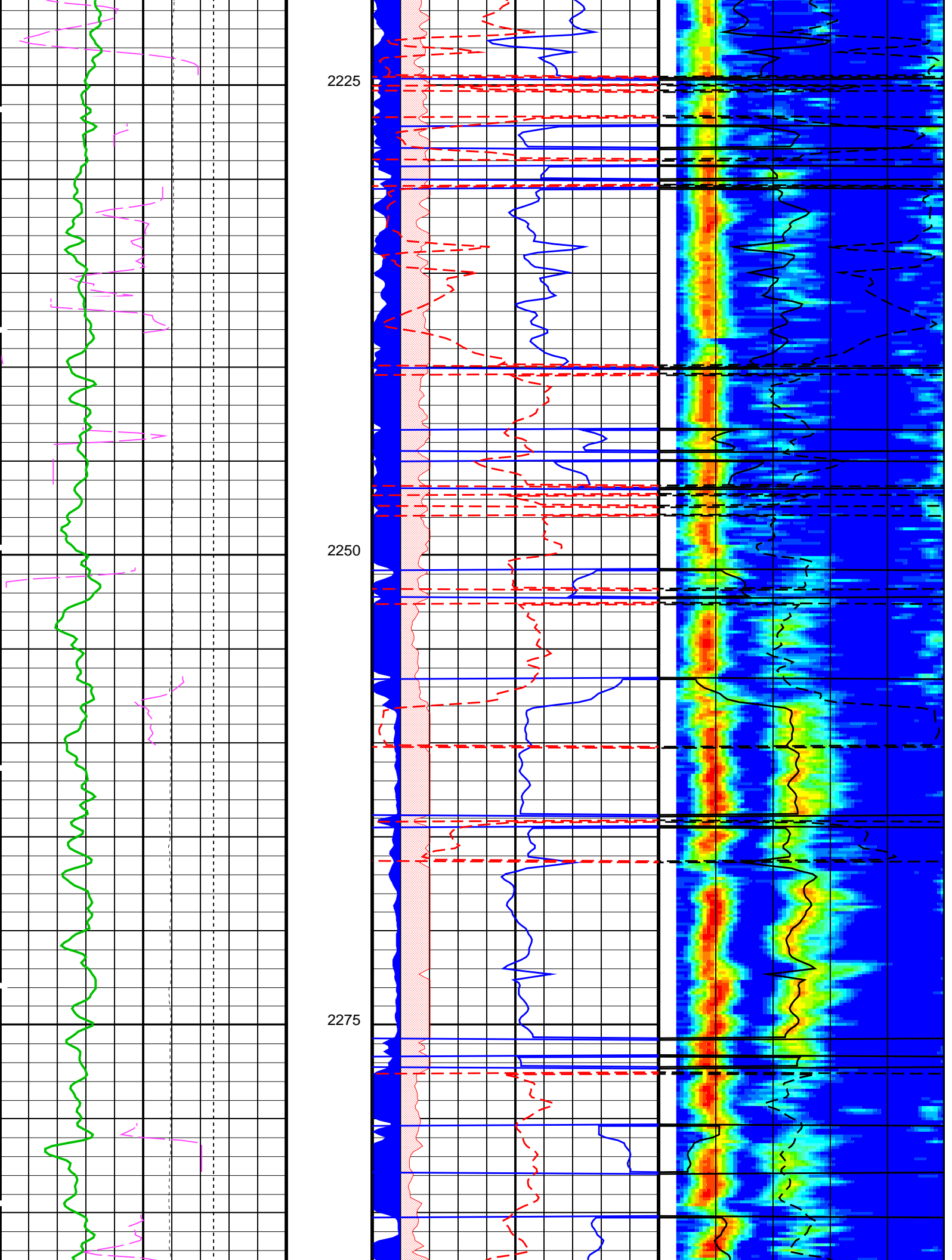


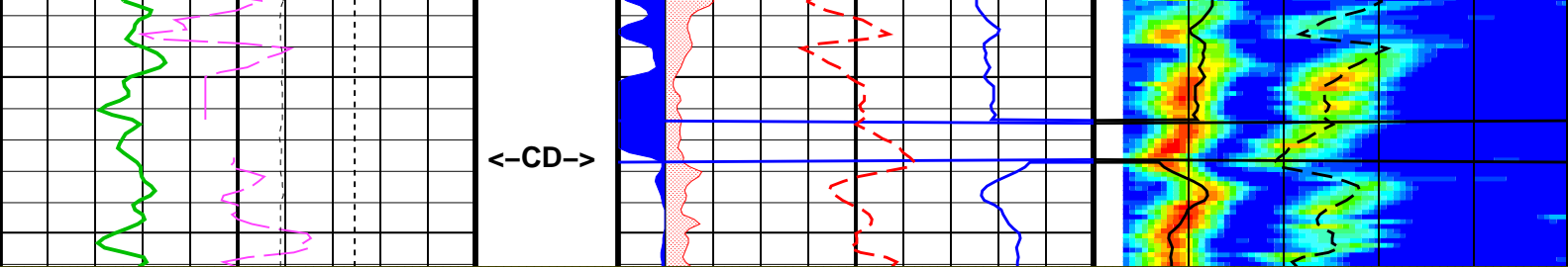












MAIN PASS: DIPOLE SONIC – P & S IMAGE

Bit Size (BS)			Delta-T Comp – P & S (DT4P)			Delta-T Comp / RA – P & S (DTRP)						
125	(MM)		375	600	(US/M)		100	100	(US/M)		600	
Poisson's Ratio (PR)			Delta-T Shear – P & S (DT4S)			Delta-T Shear / RA – P & S (DTRS)						
0	(----)		0.5	600	(US/M)		100	100	(US/M)		600	
Gamma Ray (GR_EDTC)			Low Comp Coherence Flag	Min Amplitude Max								
0	(GAPI)			150	Rec.Array P&S Slow Proj. CVDL (SPR4)							
Tension (TENS)			Low Shear Coherence Flag	100 (US/M) 600								
25000	(N)			0								

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	CASED	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	131.234	US/M
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	590.551	US/M
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	670.932	US/M
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	187.008	US/M
MTXG	Monopole Transmitter Geometry	4724	MM
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
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	7468	MM
RX2G	Receiver 2 Geometry	7620	MM
RX3G	Receiver 3 Geometry	7772	MM
RX4G	Receiver 4 Geometry	7925	MM
RX5G	Receiver 5 Geometry	8077	MM
RX6G	Receiver 6 Geometry	8230	MM
RX7G	Receiver 7 Geometry	8382	MM
RX8G	Receiver 8 Geometry	8534	MM
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	246.063	US/M
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	590.551	US/M
SLL4	STC Slowness Lower Limit – Monopole P&S	131.234	US/M
SST4	STC Slowness Step – Monopole P&S	6.56168	US/M
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stonelev	590.551	US/M

STUL	Label Slowness Upper Limit – Monopole Stoneley	2559.06	US/M
SUL4	STC Slowness Upper Limit – Monopole P&S	787.402	US/M
SWD4	STC Slowness Width – Monopole P&S	32.8084	US/M
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	CASED	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	CASED	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.5	M
TDD	Total Depth – Driller	3160.00	M
TDL	Total Depth – Logger	3129.20	M
System and Miscellaneous			
BS	Bit Size	311.000	MM
DO	Depth Offset for Playback	10.6	M
PP	Playback Processing	NORMAL	

Format: DSI_P&S_MODE Vertical Scale: 1:240 Graphics File Created: 17–May–2010 19:12

OP System Version: 17C0–154

FBST–B	17C0–154	PPC2–B	17C0–154
DSST–B	17C0–154	PPC1–B	17C0–154
EDTC–B	SKK–3882–EDTCB_b	DTPC–A	SKK–3882–EDTCB_b

Input DLIS Files

FMI_CAL_DSI_053LUP	FN:75	16–May–2010 15:00	3106.5 M	1793.3 M
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Output DLIS Files

DEFAULT	FMI_CAL_DSI_213PUP	FN:16	PRODUCER	17–May–2010 19:12
CUSTOMER	FMI_CAL_DSI_213PUC	FN:17	CUSTOMER	17–May–2010 19:12

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: 15–May–2010 12:01							
Caliper 1 Small Jig	203.2	N/A	189.1	N/A	N/A	N/A	MM
Caliper 2 Small Jig	203.2	N/A	191.5	N/A	N/A	N/A	MM
Caliper 1 Large Jig	304.8	N/A	290.4	N/A	N/A	N/A	MM
Caliper 2 Large Jig	304.8	N/A	290.6	N/A	N/A	N/A	MM

Full–Bore Scanner – B Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 15–May–2010 21:37

TEMPERATURE REFERENCE	N/A	N/A	20	N/A	N/A	N/A	DEGC
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TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	0	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	11	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	499	N/A	N/A	N/A	

Full-Bore Scanner – B Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 15-May-2010 21:37

TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	93	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	26	N/A	N/A	N/A	

Powered Positioning Device/Caliper 2 Wellsite Calibration – PPC2 Caliper Calibration

Before: 15-May-2010 11:44

PPC2 Radius 1 Raw Small Radius	88.90	N/A	102.0	N/A	N/A	12.70	MM
PPC2 Radius 1 Raw Large Radius	203.2	N/A	212.1	N/A	N/A	12.70	MM
PPC2 Radius 2 Raw Small Radius	88.90	N/A	77.50	N/A	N/A	12.70	MM
PPC2 Radius 2 Raw Large Radius	203.2	N/A	191.9	N/A	N/A	12.70	MM
PPC2 Radius 3 Raw Small Radius	88.90	N/A	103.7	N/A	N/A	12.70	MM
PPC2 Radius 3 Raw Large Radius	203.2	N/A	215.2	N/A	N/A	12.70	MM
PPC2 Radius 4 Raw Small Radius	88.90	N/A	82.25	N/A	N/A	12.70	MM
PPC2 Radius 4 Raw Large Radius	203.2	N/A	195.2	N/A	N/A	12.70	MM

Powered Positioning Device/Caliper 1 Wellsite Calibration – PPC1 Caliper Calibration

Before: 15-May-2010 11:51

PPC1 Radius 1 Raw Small Radius	88.90	N/A	110.2	N/A	N/A	12.70	MM
PPC1 Radius 1 Raw Large Radius	203.2	N/A	218.9	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Small Radius	88.90	N/A	82.55	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Large Radius	203.2	N/A	194.6	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Small Radius	88.90	N/A	114.4	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Large Radius	203.2	N/A	223.1	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Small Radius	88.90	N/A	77.46	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Large Radius	203.2	N/A	191.0	N/A	N/A	12.70	MM

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 15-May-2010 21:37

EDTC Z-Axis Acceleration	9.810	N/A	9.786	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 15-May-2010 12:02

Gamma Ray (Jig – Bkg)	164.3	N/A	164.3	N/A	N/A	14.93	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Full-Bore Scanner – B / Equipment Identification

Primary Equipment:


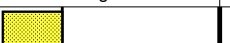
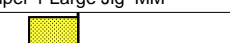
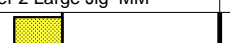
FullBore Scanner Sonde	FBSS – B
FullBore Scanner Sonde Upper part	FBSH – A
FullBore Scanner Sonde Cartridge	FBSC – B
GPIT Cartridge – C	GPIC – C
Insulating Sub	AH – 185
Flex Joint	AH – 184
FullBore Scanner Control Cartridge	FBCC – A

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – MRA
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Full-Bore Scanner – B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig MM			Value	Phase	Caliper 2 Small Jig MM			Value
Before				189.1	Before				191.5
	172.7 (Minimum)	203.2 (Nominal)	233.7 (Maximum)			172.7 (Minimum)	203.2 (Nominal)	233.7 (Maximum)	
Phase	Caliper 1 Large Jig MM			Value	Phase	Caliper 2 Large Jig MM			Value
Before				290.4	Before				290.6
	259.1 (Minimum)	304.8 (Nominal)	350.5 (Maximum)			259.1 (Minimum)	304.8 (Nominal)	350.5 (Maximum)	









Before: 15-May-2010 12:01

Powered Positioning Device/Caliper 2 / Equipment Identification

Primary Equipment:

PPC2 Radius 1 Raw Small Radius	88.90	N/A	102.0	N/A	N/A	12.70	MM
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Auxiliary Equipment:









Powered Positioning Device/Caliper 2 Wellsite Calibration							
PPC2 Caliper Calibration							
Phase	PPC2 Radius 1 Raw Small Radius MM		Value	Phase	PPC2 Radius 1 Raw Large Radius MM		Value
Before			102.0	Before			212.1
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC2 Radius 2 Raw Small Radius MM		Value	Phase	PPC2 Radius 2 Raw Large Radius MM		Value
Before			77.50	Before			191.9
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC2 Radius 3 Raw Small Radius MM		Value	Phase	PPC2 Radius 3 Raw Large Radius MM		Value
Before			103.7	Before			215.2
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC2 Radius 4 Raw Small Radius MM		Value	Phase	PPC2 Radius 4 Raw Large Radius MM		Value
Before			82.25	Before			195.2
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Before: 15-May-2010 11:44							

Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper
PPC1 Caliper StandardPPC1 – B
PPC_ –

Auxiliary Equipment:

Powered Positioning Device/Caliper 1 Wellsite Calibration							
PPC1 Caliper Calibration							
Phase	PPC1 Radius 1 Raw Small Radius MM		Value	Phase	PPC1 Radius 1 Raw Large Radius MM		Value
Before			110.2	Before			218.9
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 2 Raw Small Radius MM		Value	Phase	PPC1 Radius 2 Raw Large Radius MM		Value
Before			82.55	Before			194.6
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 3 Raw Small Radius MM		Value	Phase	PPC1 Radius 3 Raw Large Radius MM		Value
Before			114.4	Before			223.1
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 4 Raw Small Radius MM		Value	Phase	PPC1 Radius 4 Raw Large Radius MM		Value
Before			77.46	Before			191.0
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Before: 15-May-2010 11:51							

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS CartridgeEDTG – A/B
EDTC – B

8149

Auxiliary Equipment:


EDTC Housing




EDTH – B

8148

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.786
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 15-May-2010 21:37		

Enhanced DTS Cartridge Wellsite Calibration														
Detector Calibration														
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig – Bkg) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				16.89	Before				164.3	Before				165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		149.3 (Minimum)	164.3 (Nominal)	179.2 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)			
Before: 15-May-2010 12:02														

Company: **Nalcor Energy Oil and Gas**

Schlumberger

Well: **Nalcor et al Seamus 1**

Field: **Parson's Pond**

Rig: **Stoneham #11**

Province: **Newfoundland**

**DIPOLE SHEAR
SONIC IMAGER LOG**