

Well: Craigow-1
Field: Craigow
Rig: Kan Tan IV

Country: **Australia**[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			
Density	Viscosity		
Fluid Loss	PH		
MUD			
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			

[illegible]

DEPTH SUMMARY LISTING

Date Created: 2-JAN-2011 23:59:06

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	CMTD-B/A	Type:	7-46ZV XS
Serial Number:	6928	Serial Number:	1133	Serial Number:	75297
Calibration Date:	24-Aug-2010	Calibration Date:	10-Dec-2009	Length:	5780 M
Calibrator Serial Number:	18	Calibrator Serial Number:	177876	Conveyance Method: Wireline Rig Type: Offshore Floater with WMC	
Calibration Cable Type:	7-46ZV XS	Number of Calibration Points:	10		
Wheel Correction 1:	-5	Calibration RMS:	11		
Wheel Correction 2:	-2	Calibration Peak Error:	18		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	51.86 M
Rig Up Length At Bottom:	51.66 M
Rig Up Length Correction:	0.20 M
Stretch Correction:	0.50 M
Tool Zero Check At Surface:	3.00 M

Depth Control Remarks

1. All Schlumberger Depth Control Procedures Followed
2. IDW used as Primary depth control and Z-Chart as Secondary
3. Tide Correction of 0.12m applied
4. Log Correlated to Downlog giving a DO = 0.5m
- 5.
- 6.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: None	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
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Craigow-1 is a vertical well located in Bass Strait. Bridged at 1746m and TD not tagged.

First run in hole. Toolstring run as per tool sketch. Pex data requested TD-1150m. HRLA TD-Casing. MSIP TD - Surface.

HBI A centralized with four 2.5" standoffs

BEY (centralized with bow springs)

Neutron corrected for borehole salinity, hole size, mud weight, pressure/temperature and standoff

Neutron corrected for borehole salinity, hole size, mud weight, pressure/temperature and standoff

Rock matrix for neutron porosity correction is Limestone

MAPC-BA 8029
ECH-SF 8029
MAMS-BA 8004

MAXS-B
MASS-BA 8036
MAXS-BA 8036

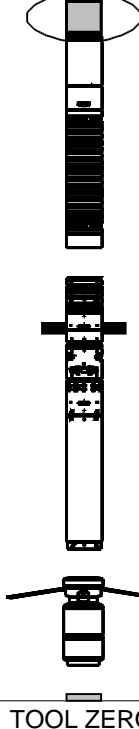
PPC1
PPC1-B 8464
PPC_CAL_STD 8464

BNS-CCS

MAMS-PS

MAXS-PS

Calipers
PPC_Cartr
DF ACCZ
HMAS HV
Accelerom
Tension



10.00

8.30
2.5 IN
Standoff

2.13

1.78
0.14

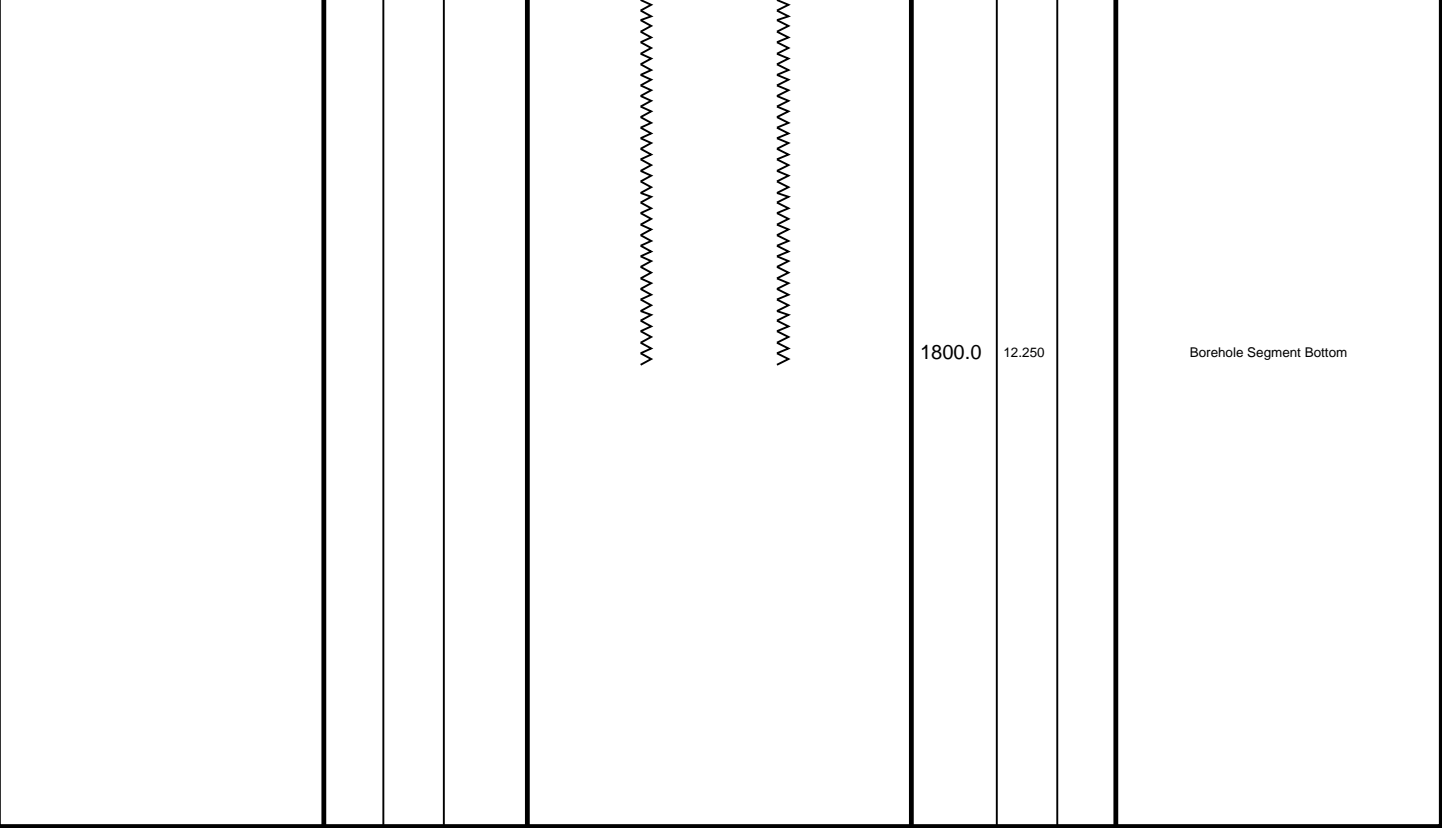
2.13

0.00

0.14

MAXIMUM STRING DIAMETER 8.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in) (m)			Well Schematic	(m) (in)			Casing String
	OD	ID	MD		MD	OD	ID	
RT			0.0	<p>The well schematic diagram shows a cross-section of the well. At the top is a derrick. Below it is a platform. The wellbore is shown as a blue area. The casing is shown as a grey area. The production string is shown as a black area. The wellbore is filled with fluid. The casing is filled with fluid. The production string is filled with fluid. The wellbore is connected to the casing. The casing is connected to the production string. The wellbore is connected to the casing. The casing is connected to the production string. The wellbore is connected to the casing. The casing is connected to the production string.</p>				Borehole Segment Casing String Casing Shoe Borehole Segment
MSL			26.0		75.6	26.000		
					157.0	13.375		
					159.0	20.000		
						17.500		
					735.0	13.375		Casing Shoe
					745.0	12.250		Borehole Segment

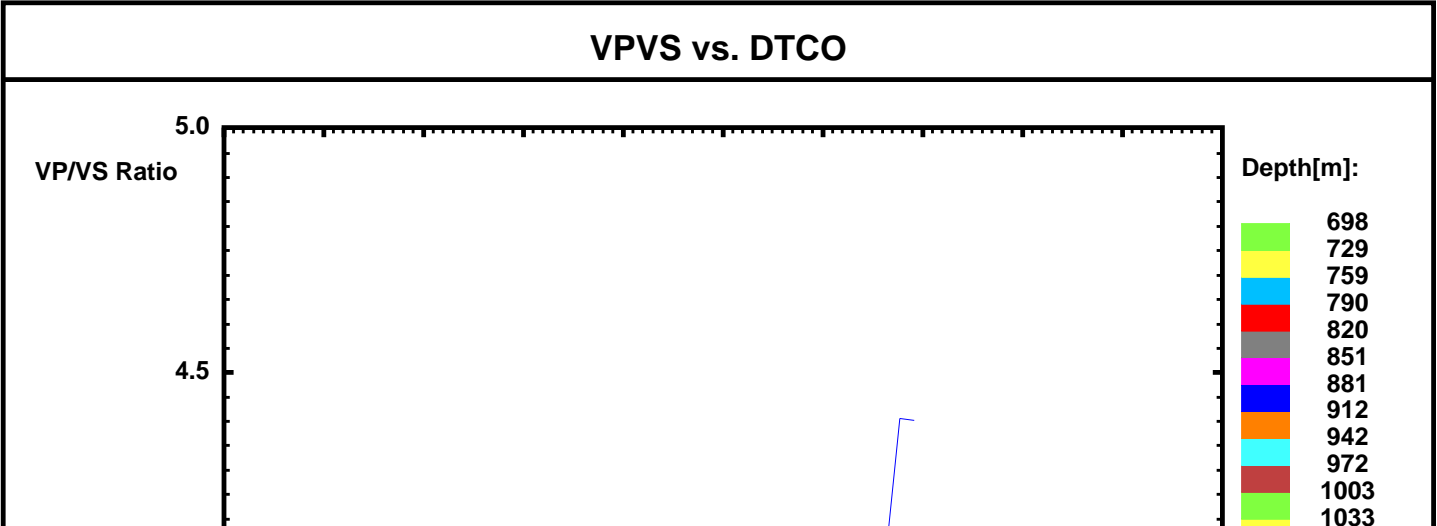


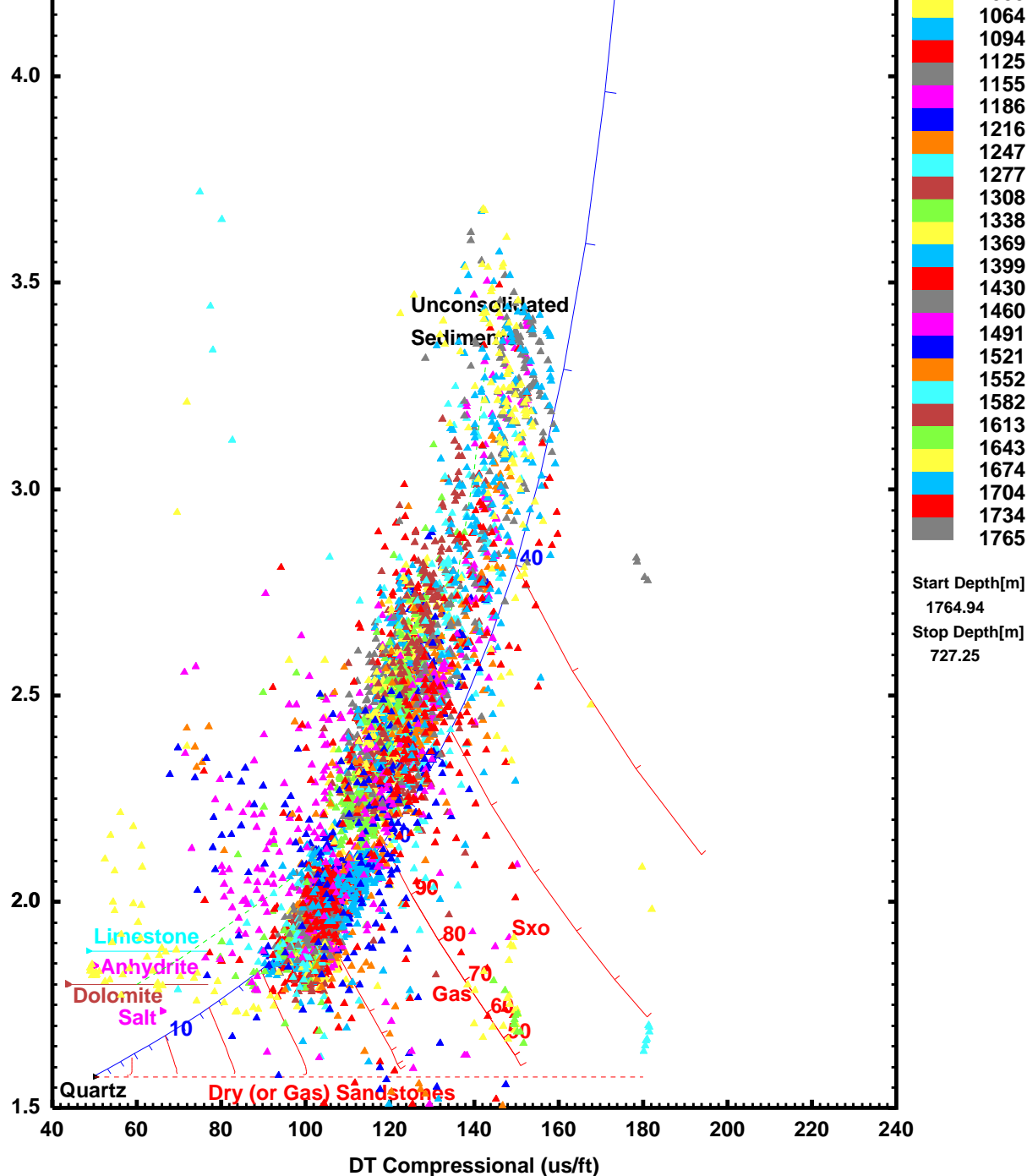
ALL DEPTHS ARE DRILLERS DEPTHS

Schlumberger

VPVS vs. DTCO Plot

MAXIS Field Log





Template: empirical relationship for vertical wells (vertically polarized compressional, horizontally polarized shear)

File Name: MAST_DSTC_VPVS_DTCO_PLOT.PDS

File Created: Dec 31 18:34:02 2010

Schlumberger

**Casing Pass
Far Monopole**

MAXIS Field Log

Company: Tap Oil Limited

Well: Craigow-1

Input DLIS Files

DEFAULT CAL_MAXS_MAPC_HRLA_083LUP FN:94 PRODUCER 01-Jan-2011 05:16 769.3 M 70.0 M

Output DLIS Files

Output DLIS Files

DEFAULT	CAL_MAXS_MAPC_HRLA_085PUP FN:100	PRODUCER	01-Jan-2011 08:06	769.8 M	70.6 M
RTB	CAL_MAXS_MAPC_HRLA_085PUP FN:101	PRODUCER	01-Jan-2011 07:06	769.8 M	70.6 M
CUST	CAL_MAXS_MAPC_HRLA_085PUC FN:102	CUSTOMER	01-Jan-2011 08:06	769.8 M	70.6 M

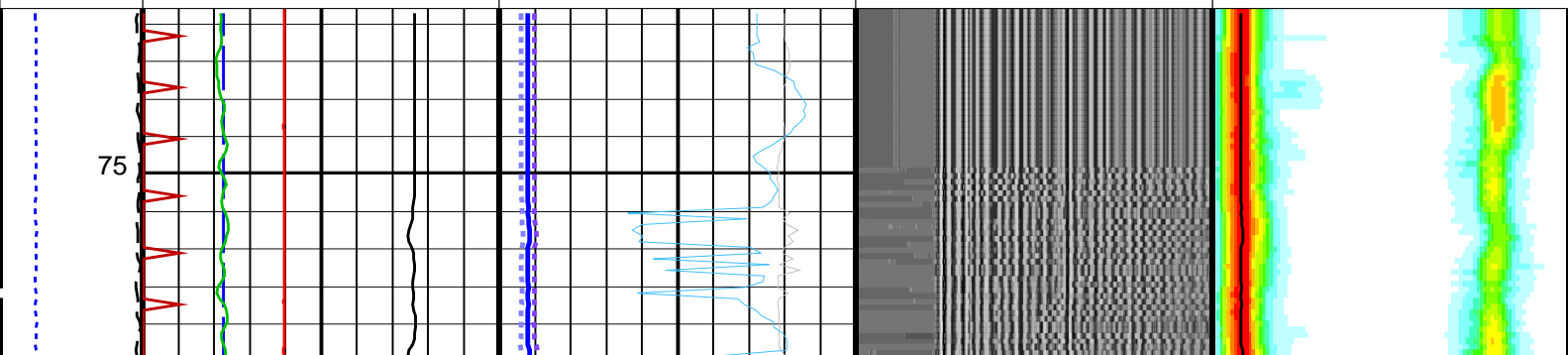
OP System Version: 18C0-147

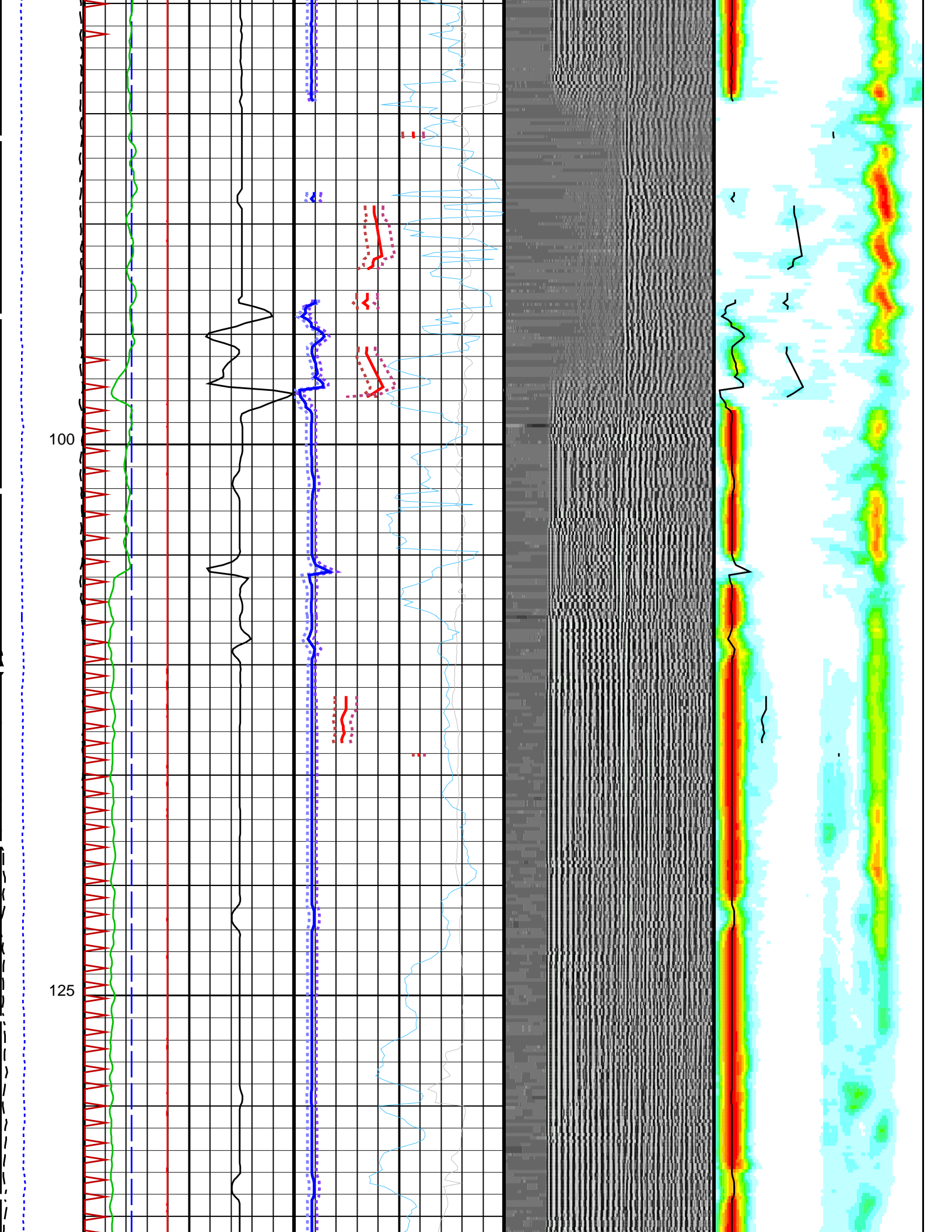
PPC1	SKK-3993-PPC	MAXS-B	SKK-3935-MAST
MAPC-B	SKK-3935-MAST	HRLT-B	SRPC-4072-Q4_2010_OP18
SPA-A	18C0-147	HILTH-FTB	18C0-147
EDTC-B	SRPC-4072-Q4_2010_OP18		

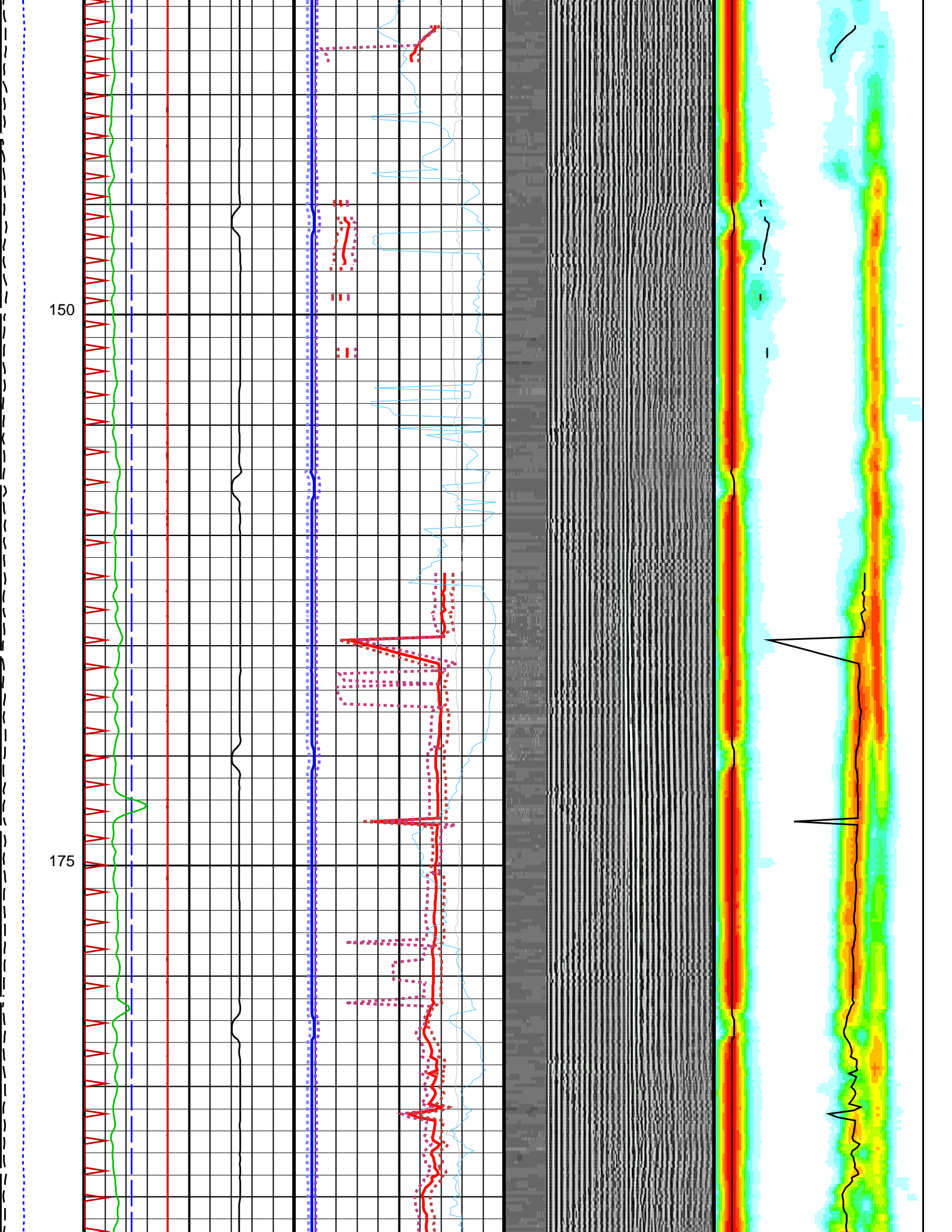
PIP SUMMARY

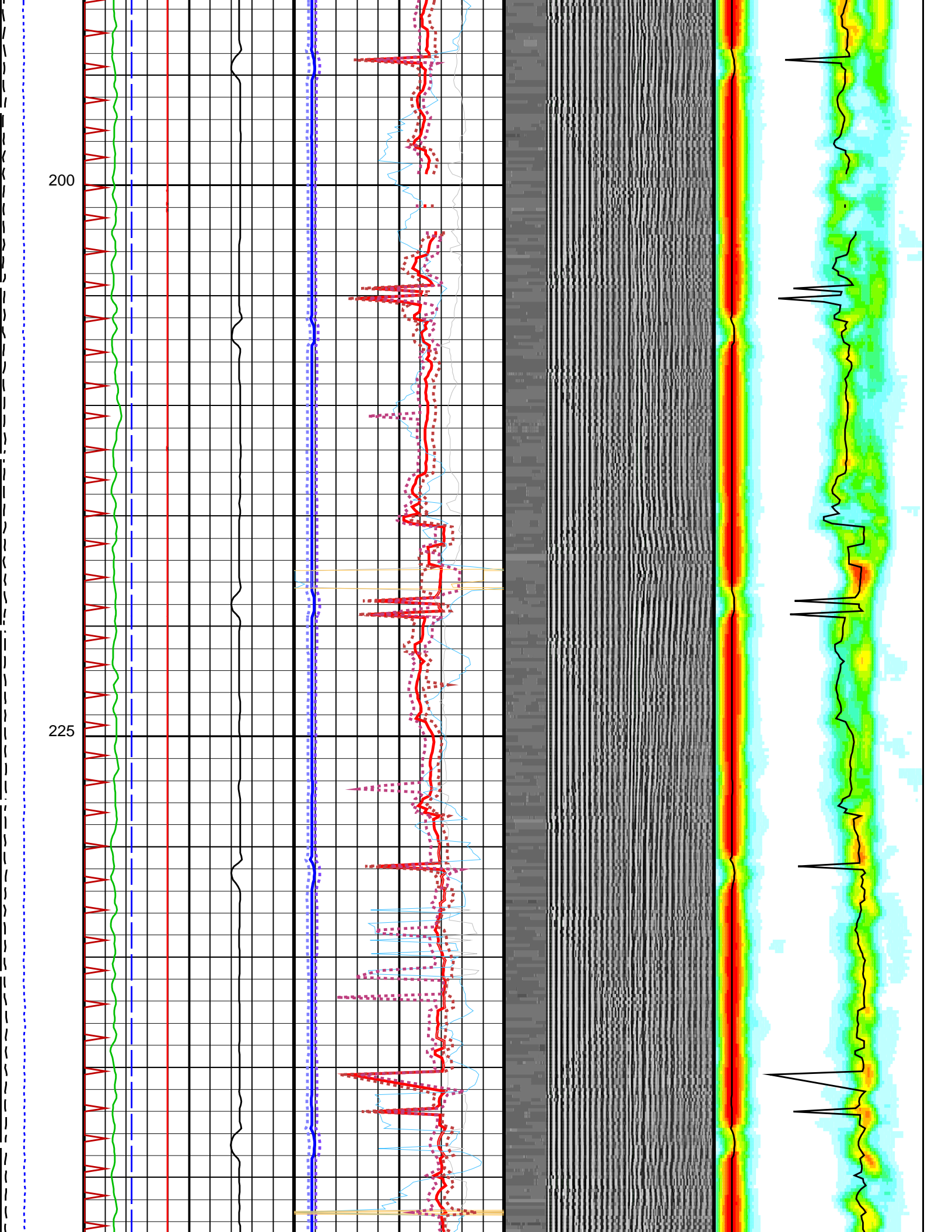
Time Mark Every 60 S

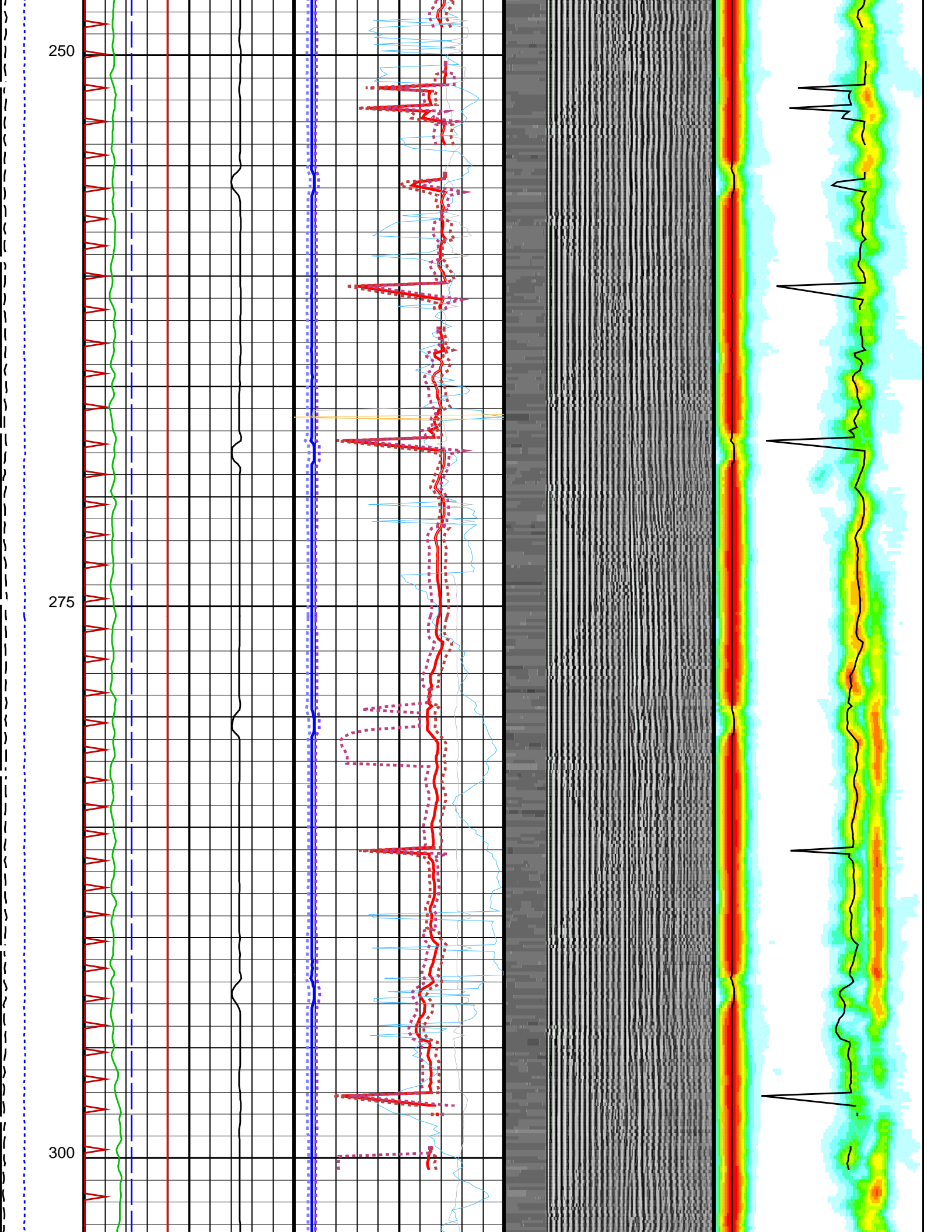
		<div>Shear Confidence Up 3 (SCIU3) 40 (US/F) 240</div> <div>Shear Confidence Low 3 (SCIL3) 40 (US/F) 240</div> <div>Peak Time PKTI3[0] (PKTI3[0]) 200 (US) 1200</div> <div>Peak Coherence PKCH3[0] (PKCH3[0]) 0 (----) 1</div>	
Calibrated Downhole Force (CDF) (LBF) -200 1800	Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL3[0] (PKSL3[0]) 40 (US/F) 240	
Tool/Tot. Drag From D4T to STIA	HILT Caliper (HCAL) 10 (IN) 20	Shear Slowness 3 (DTSH3) 40 (US/F) 240	
Cable Drag From D4T to STIT	Gamma Ray (GR) 0 (GAPI) 200	Compressional Slowness 3 (DTCO3) 40 (US/F) 240	<div>Min Amplitude Max</div> <div>Slowness Projection 3 (SPJ3) 40 (US/F) 240</div>
Stuck Stretch (STIT) 0 (M) 20	Data Copy Status Indicator 3 (DCSI3) 0 (----) 10	Compressional Confidence Up 3 (CCIU3) 40 (US/F) 240	Shear Slowness 3 (DTSH3) 40 (US/F) 240
Tension (TENS) (LBF) 0 8000	Bit Size (BS) 10 (IN) 20	Compressional Confidence Low 3 (CCIL3) 40 (US/F) 240	<div>Min Amplitude Max</div> <div>MAST MF VDL WF (DWF3_MONO) (US) 5000</div> <div>Compressional Slowness 3 (DTCO3) 40 (US/F) 240</div>

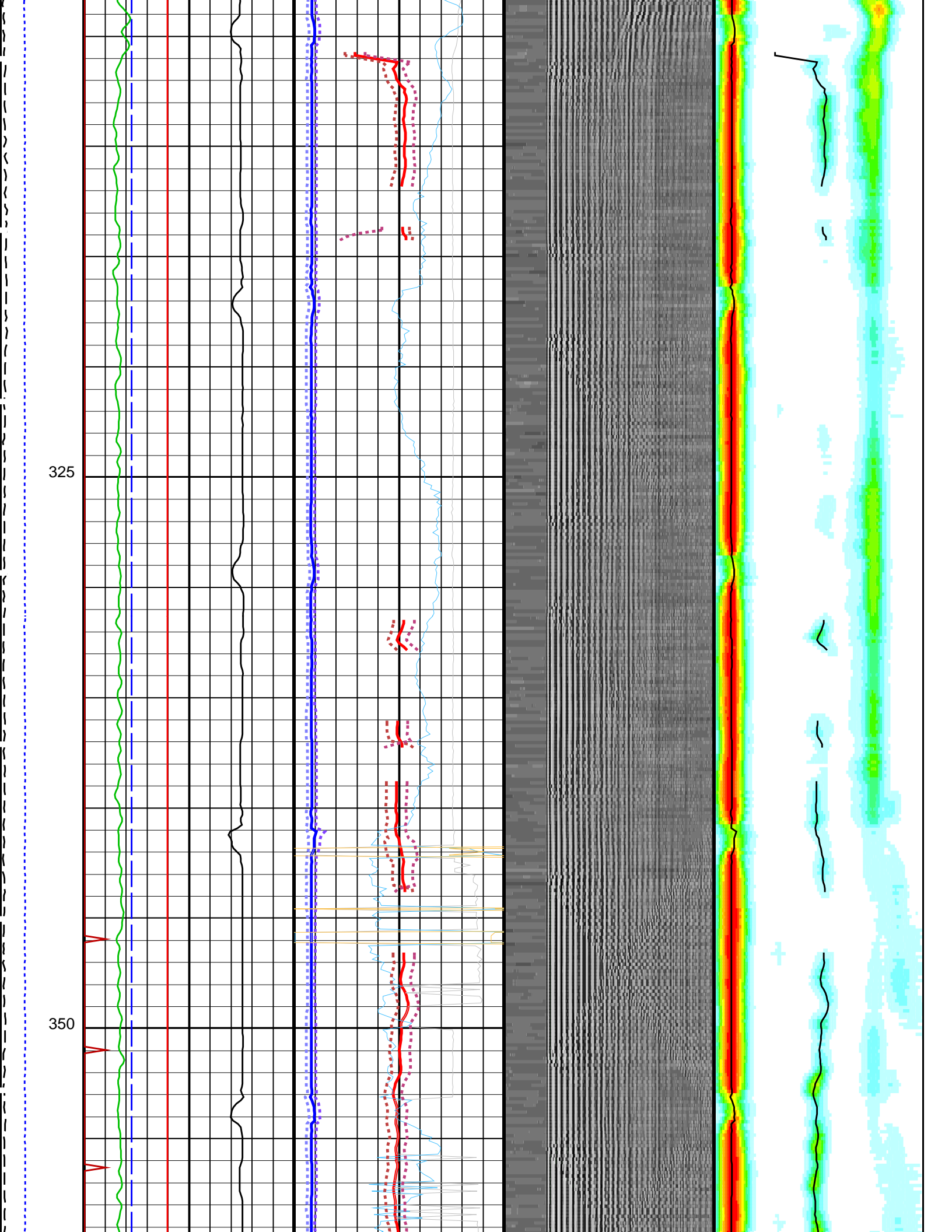


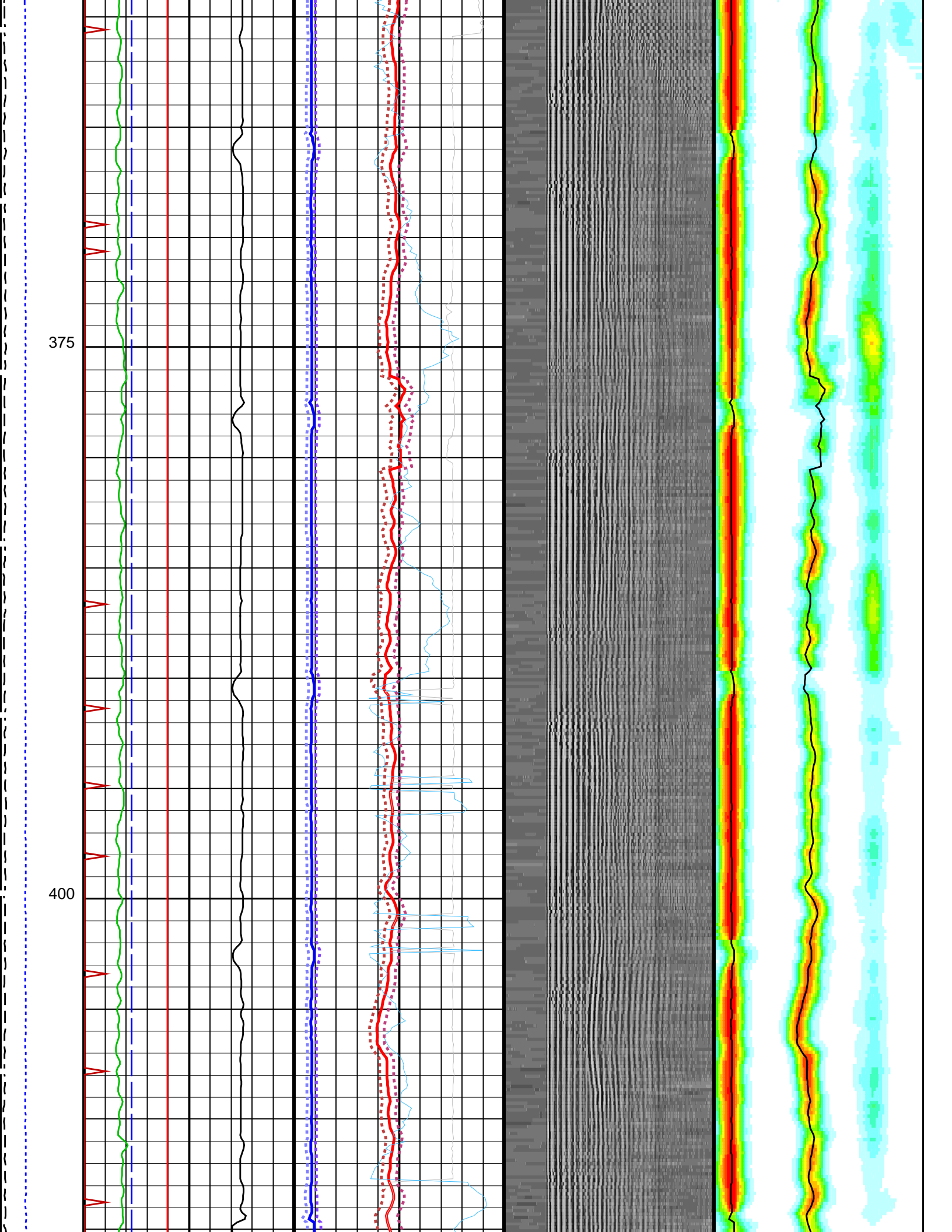


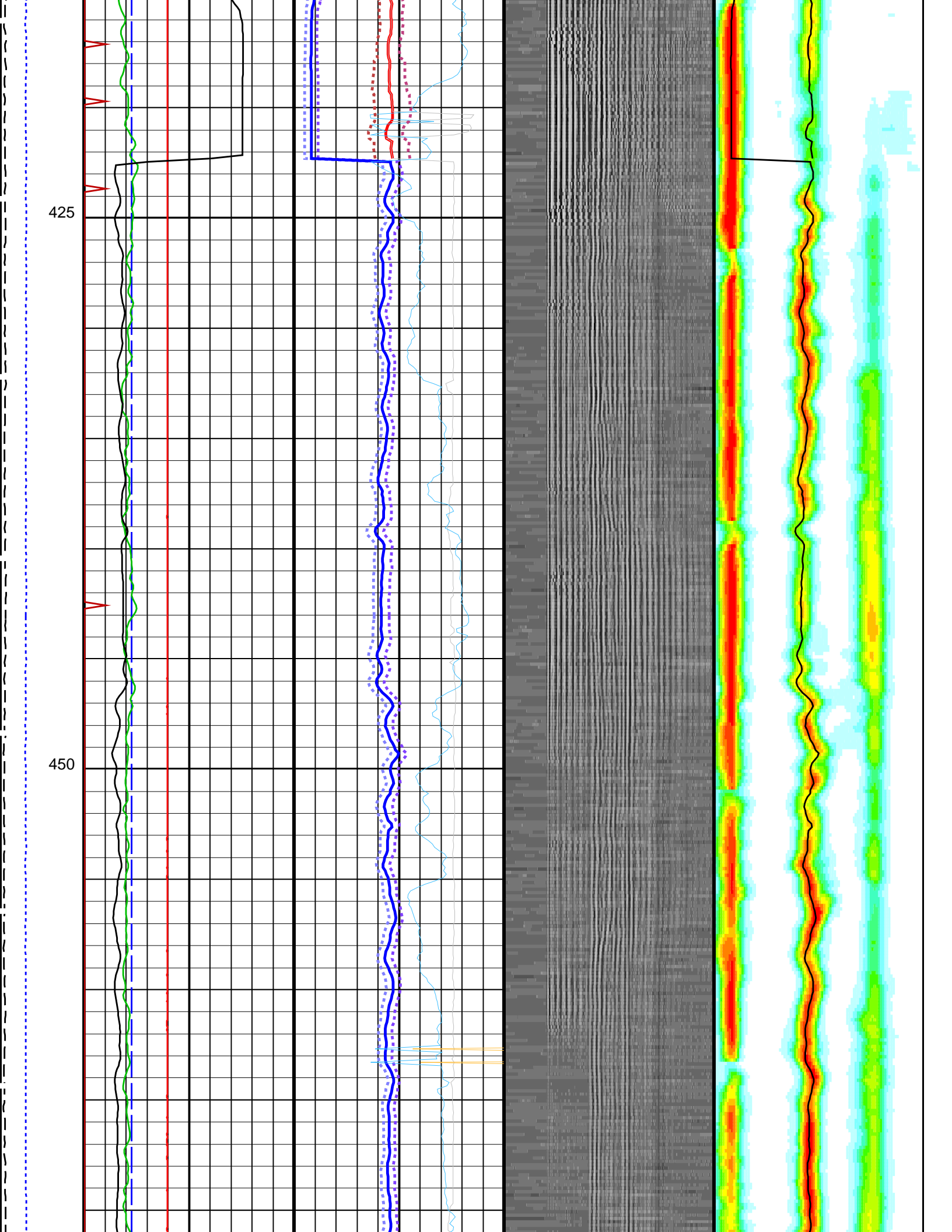


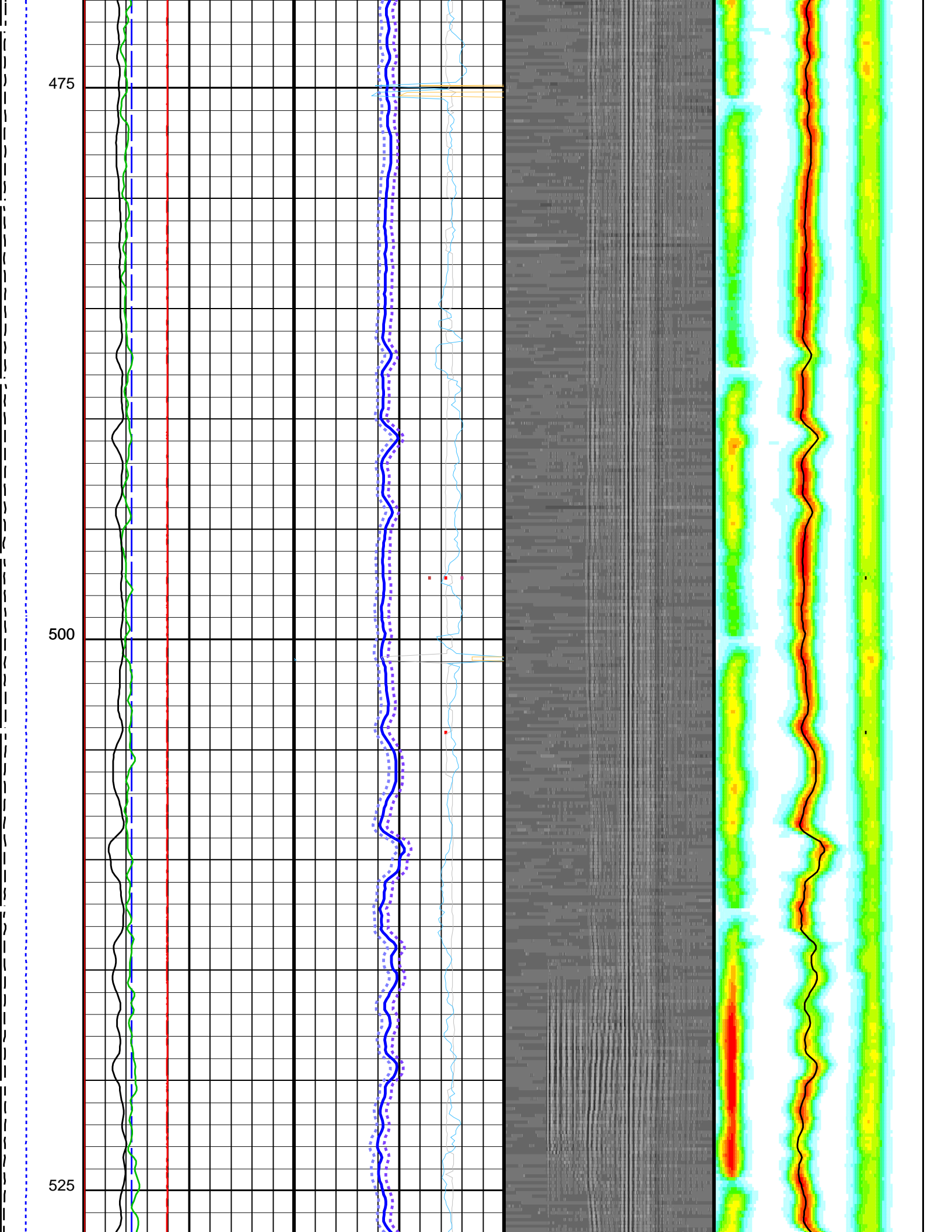


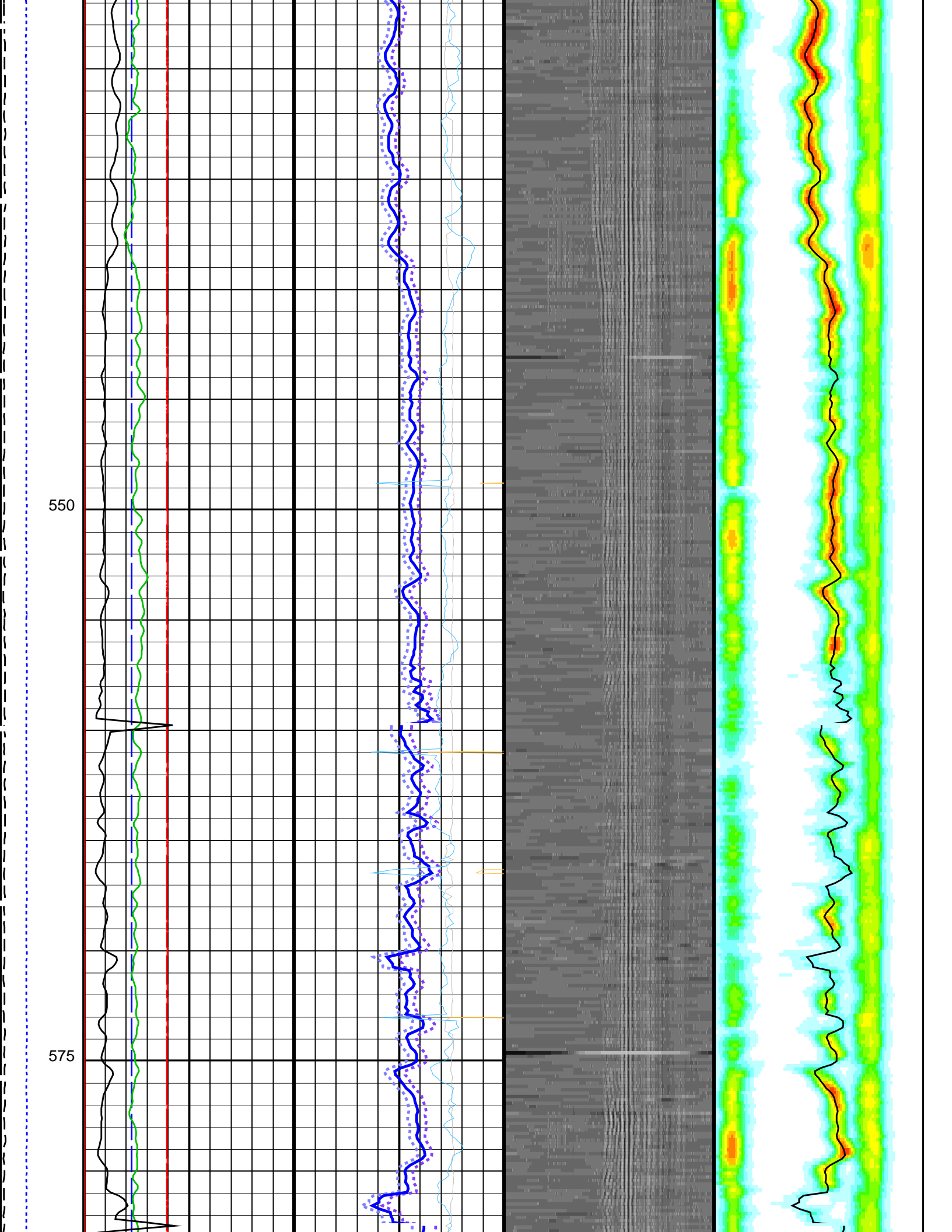


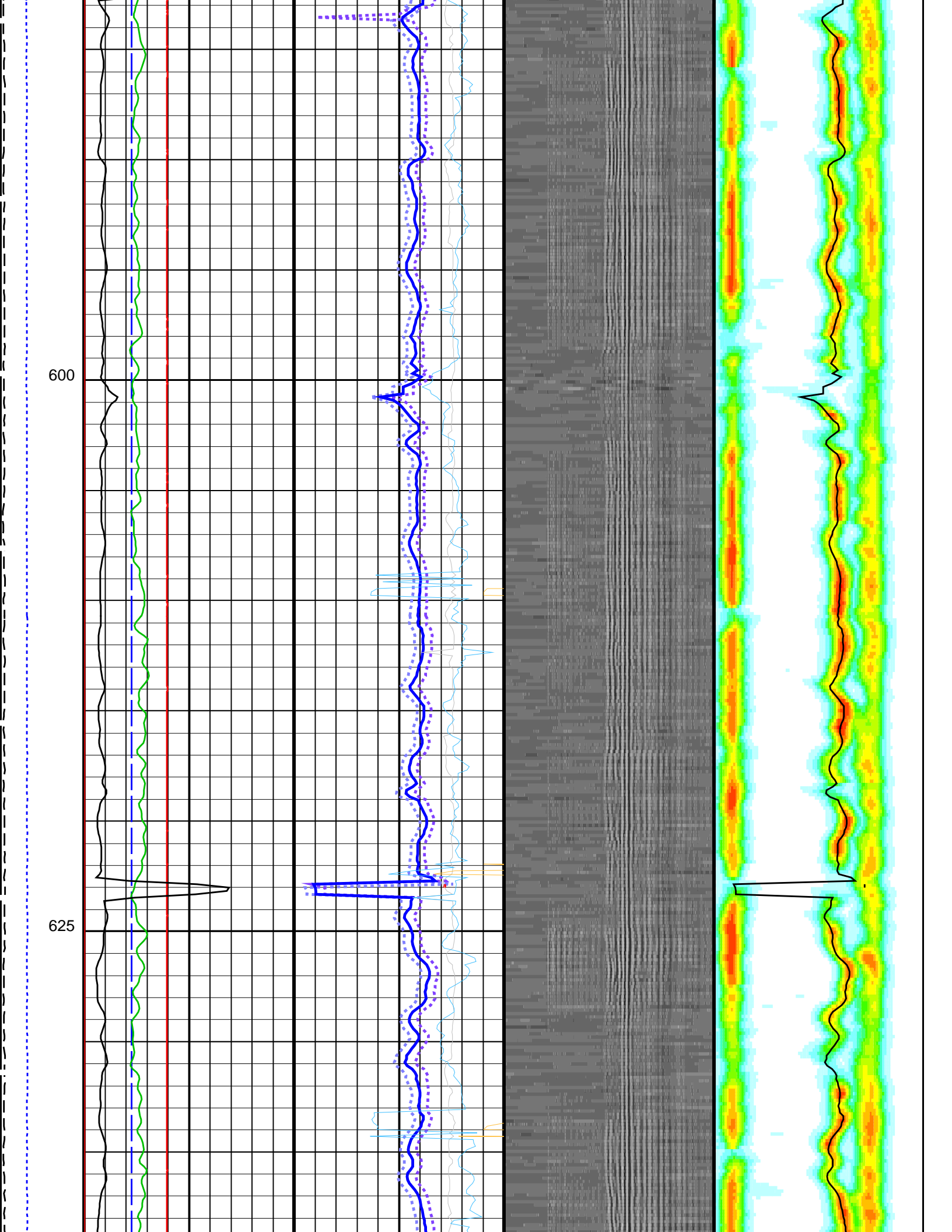


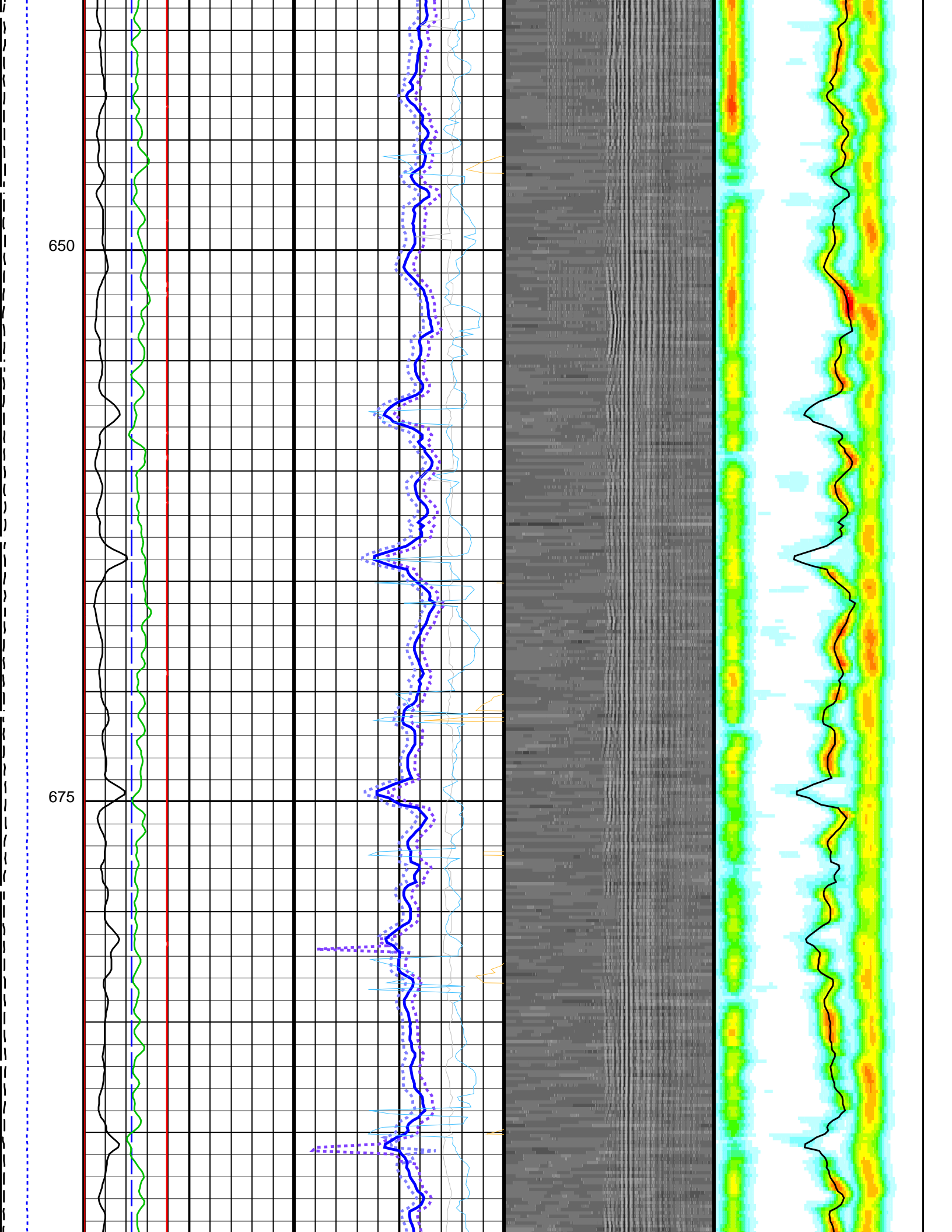


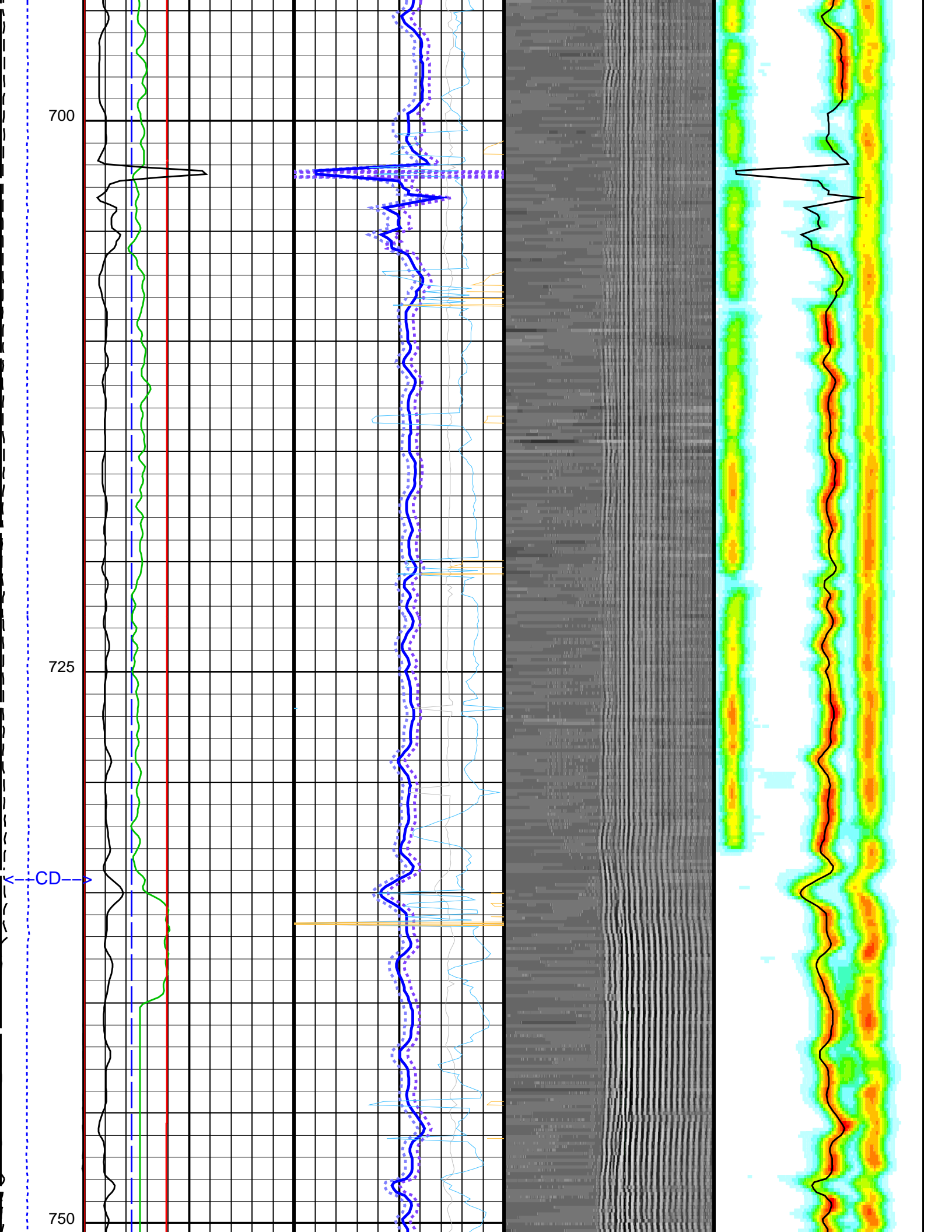













OP System Version: 18C0-147			
PPC1	SKK-3993-PPC	MAXS-B	SKK-3935-MAST
MAPC-B	SKK-3935-MAST	HRLT-B	SRPC-4072-Q4_2010_OP18
SPA-A	18C0-147	HILTH-FTB	18C0-147
EDTC-B	SRPC-4072-Q4_2010_OP18		

Input DLIS Files					
DEFAULT	CAL_MAXS_MAPC_HRLA_083LUP	FN:94	PRODUCER	01-Jan-2011 05:16	769.3 M 70.0 M
Output DLIS Files					
DEFAULT	CAL_MAXS_MAPC_HRLA_085PUP	FN:100	PRODUCER	01-Jan-2011 08:06	
RTB	CAL_MAXS_MAPC_HRLA_085PUP	FN:101	PRODUCER	01-Jan-2011 07:06	
CUST	CAL_MAXS_MAPC_HRLA_085PUC	FN:102	CUSTOMER	01-Jan-2011 08:06	



Main Pass
Far Monopole

MAXIS Field Log

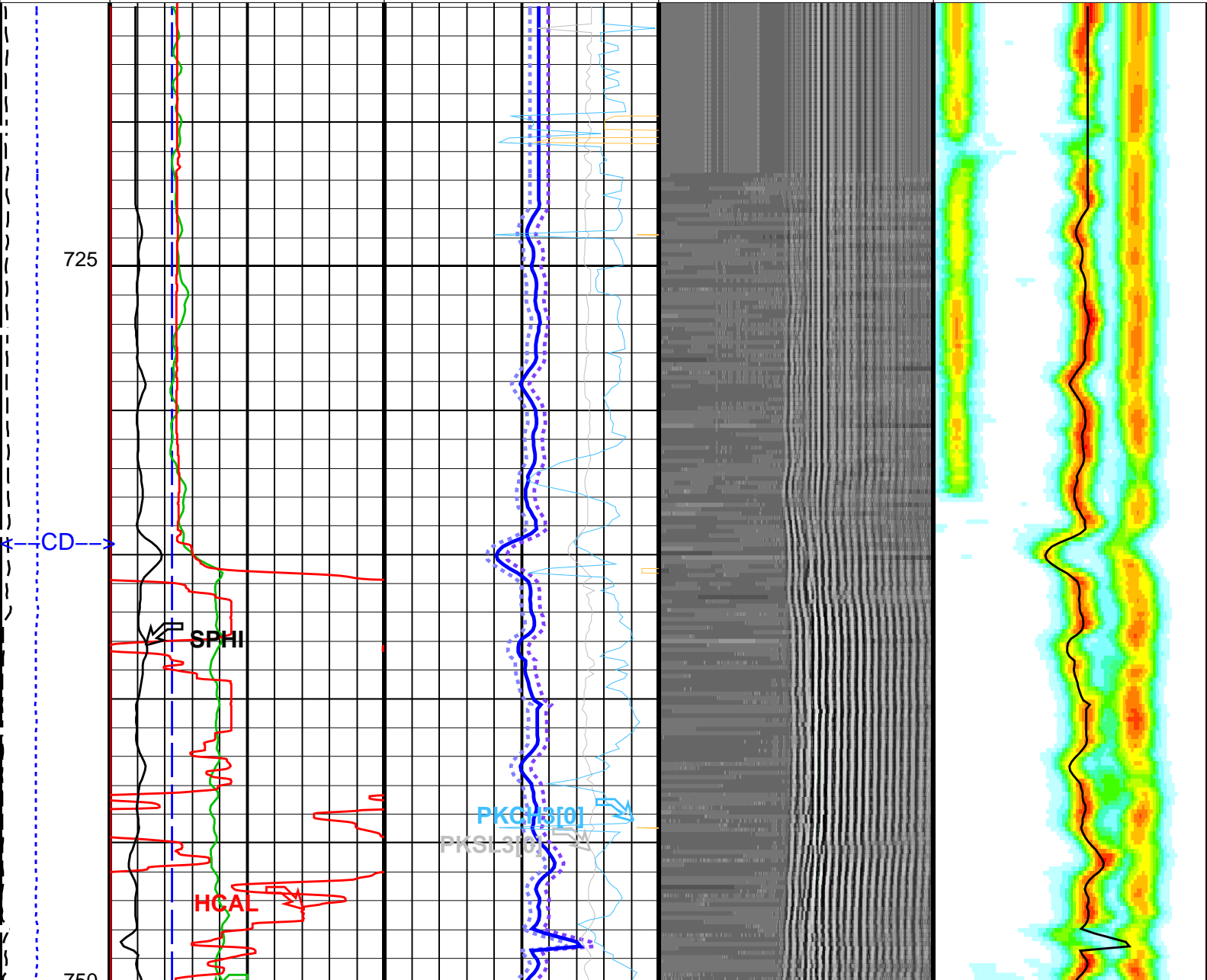
Company: Tap Oil Limited					Well: Craigow-1	
Input DLIS Files						
DEFAULT	CAL_MAXS_MAPC_HRLA_082LUP	FN:91	PRODUCER	31-Dec-2010 16:38	1764.5 M	715.4 M
Output DLIS Files						
DEFAULT	CAL_MAXS_MAPC_HRLA_082PUP	FN:97	PRODUCER	31-Dec-2010 18:33	1764.9 M	715.8 M
CUST	CAL_MAXS_MAPC_HRLA_082PUC	FN:98	CUSTOMER	31-Dec-2010 18:33	1764.9 M	715.8 M

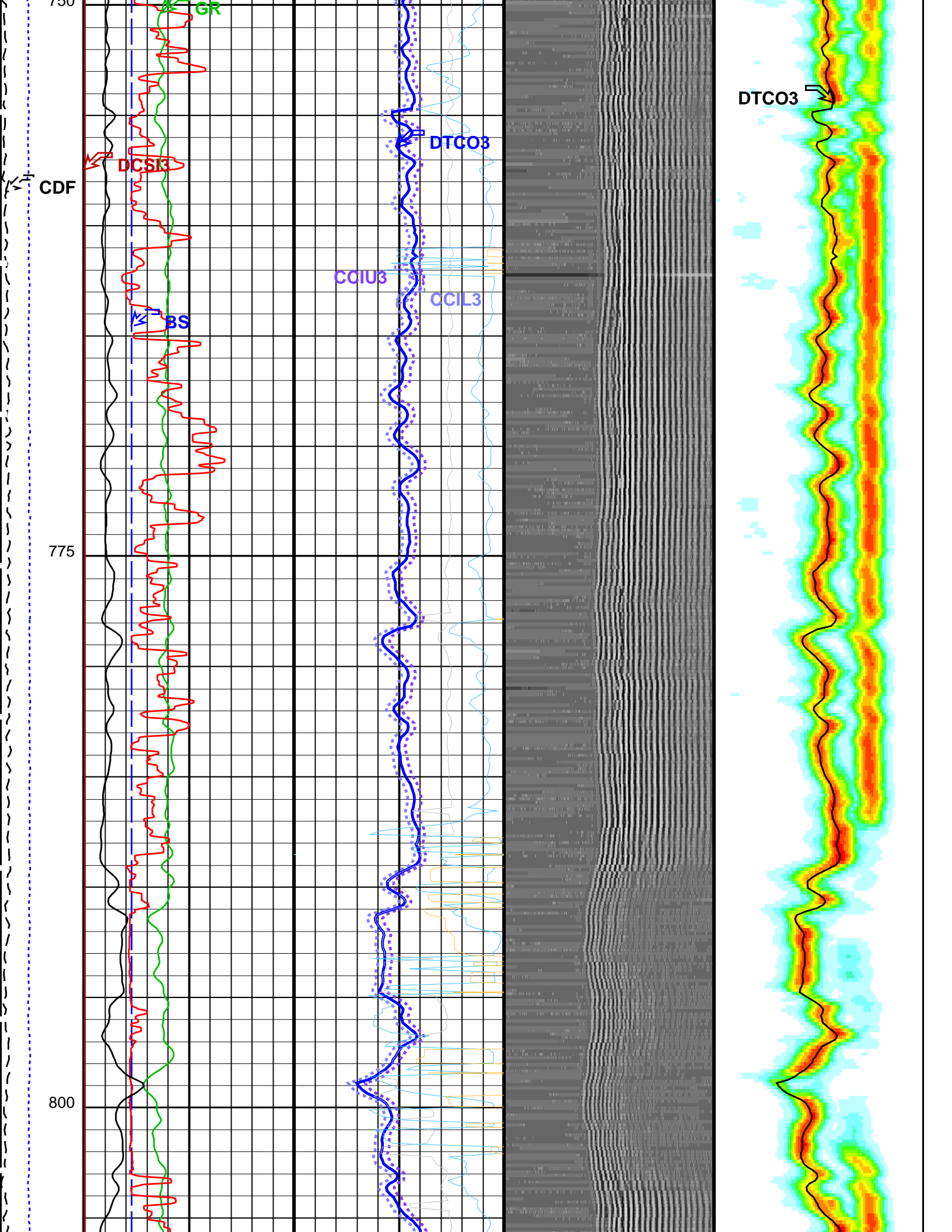
OP System Version: 18C0-147			
PPC1	SKK-3993-PPC	MAXS-B	SKK-3935-MAST
MAPC-B	SKK-3935-MAST	HRLT-B	SRPC-4072-Q4_2010_OP18
SPA-A	18C0-147	HILTH-FTB	18C0-147
EDTC-B	SRPC-4072-Q4_2010_OP18		

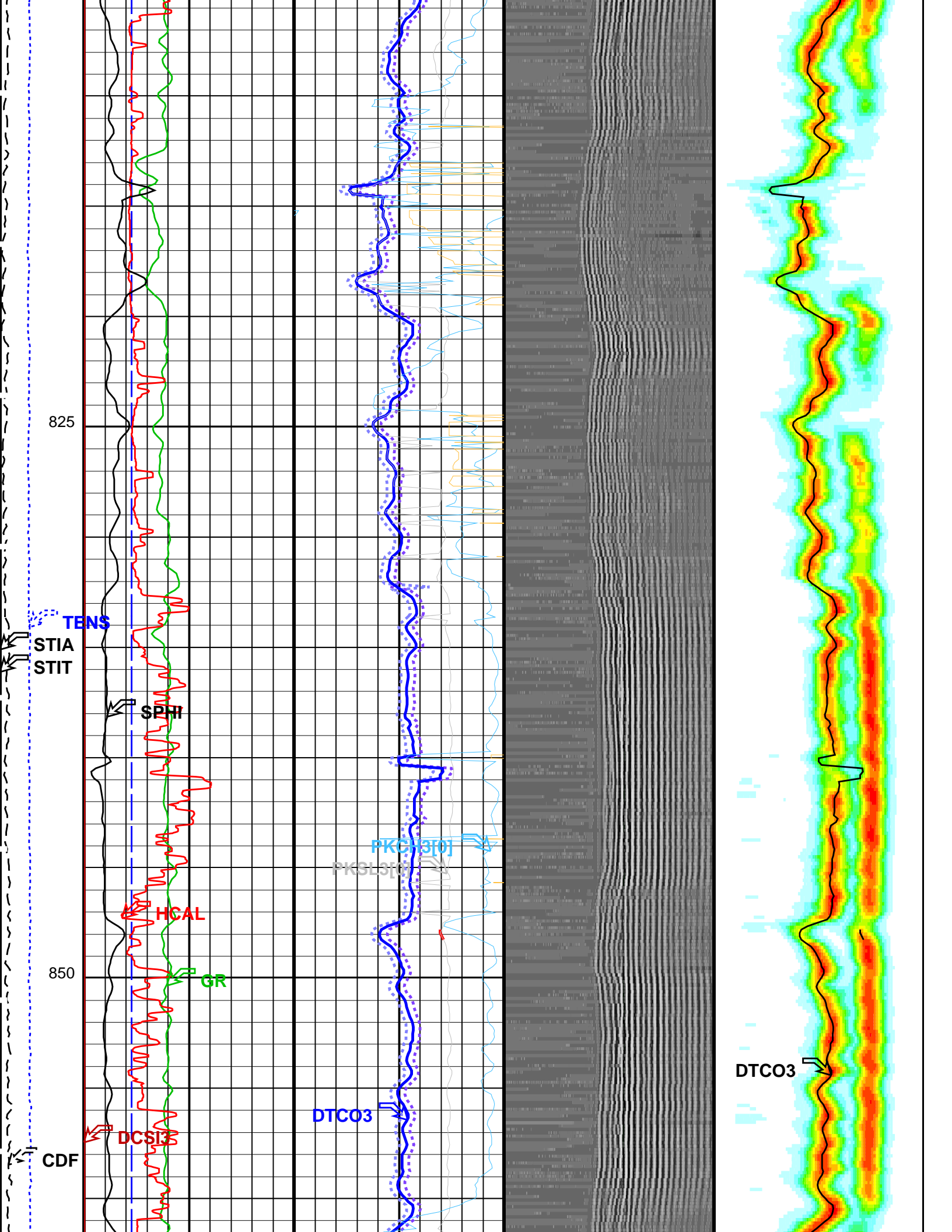
PIP SUMMARY	
 Time Mark Every 60 S	

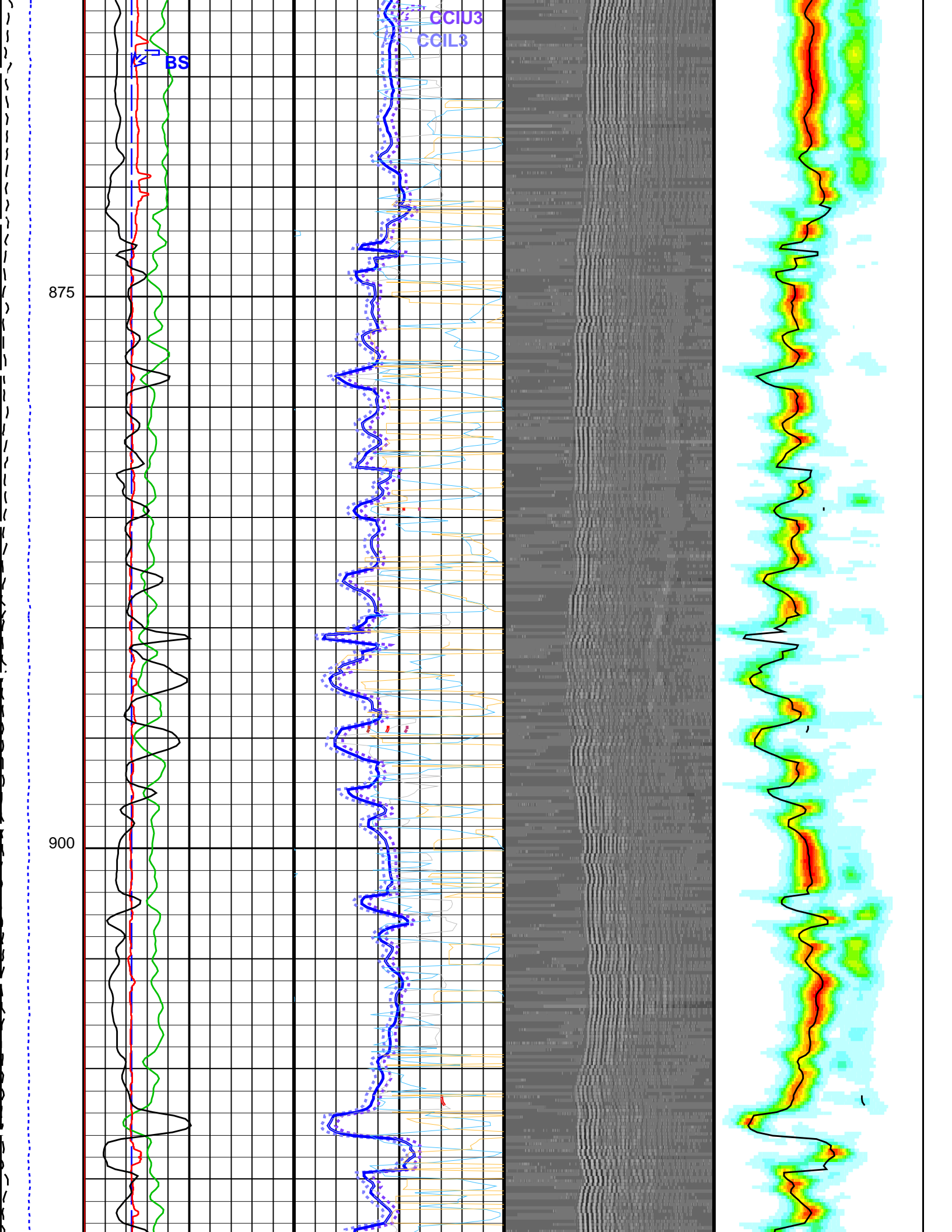
	Shear Confidence Up 3 (SCIU3)	
	40 (US/F) 240	
	Shear Confidence Low 3 (SCIL3)	
	40 (US/F) 240	
	Peak Time PKTI3[0] (PKTI3[0])	
	200 (US) 1200	
	Peak Coherence PKCH3[0] (PKCH3[0])	
	0 (----) 1	

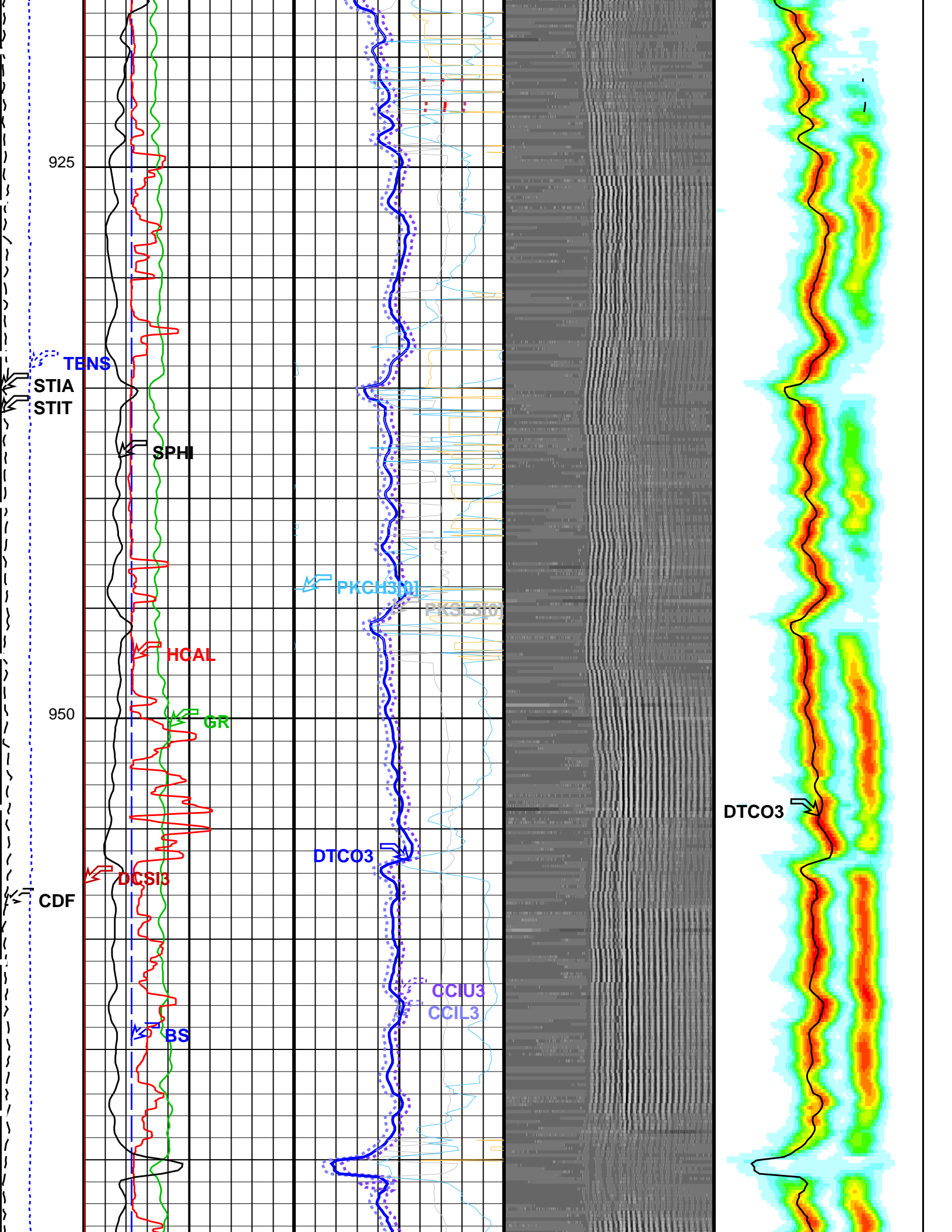
Calibrated Downhole Force (CDF) (LBF) -200 1800	Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL3[0] (PKSL3[0]) (US/F) 40 240	
Tool/Tot. Drag From D4T to STIA	HILT Caliper (HCAL) 10 (IN) 20	Shear Slowness 3 (DTSH3) 40 (US/F) 240	
Cable Drag From D4T to STIT	Gamma Ray (GR) (GAPI) 0 200	Compressional Slowness 3 (DTCO3) 40 (US/F) 240	Min Amplitude Max Slowness Projection 3 (SPJ3) 40 (US/F) 240
Stuck Stretch (STIT) 0 (M) 20	Data Copy Status Indicator 3 (DCSI3) 0 (-----) 10	Compressional Confidence Up 3 (CCIU3) 40 (US/F) 240	Shear Slowness 3 (DTSH3) 40 (US/F) 240
Tension (TENS) (LBF) 0 8000	Bit Size (BS) (IN) 10 20	Compressional Confidence Low 3 (CCIL3) 40 (US/F) 240	Min Amplitude Max MAST MF VDL WF (DWF3_MONO) 0 (US) 5000
			Compressional Slowness 3 (DTCO3) 40 (US/F) 240

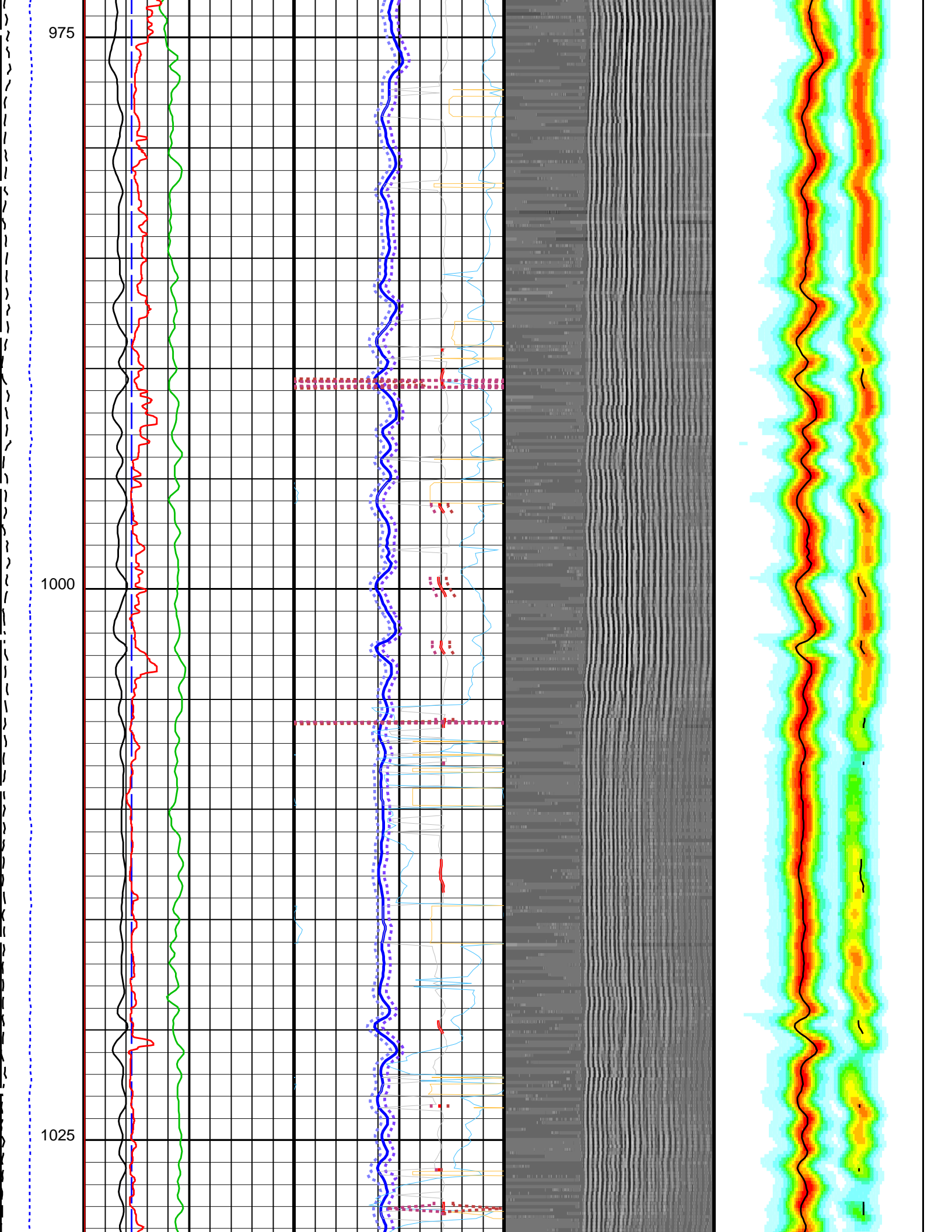


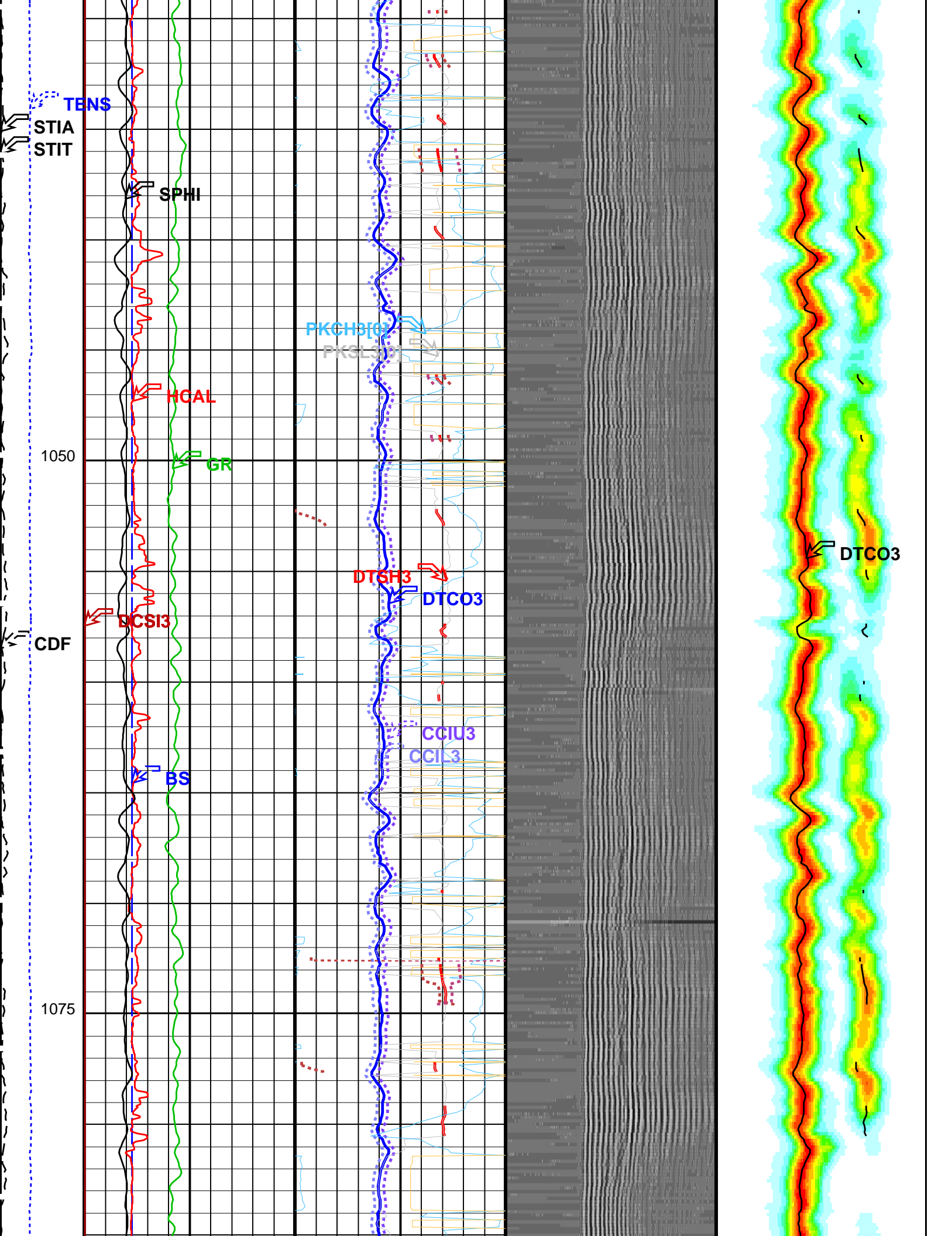


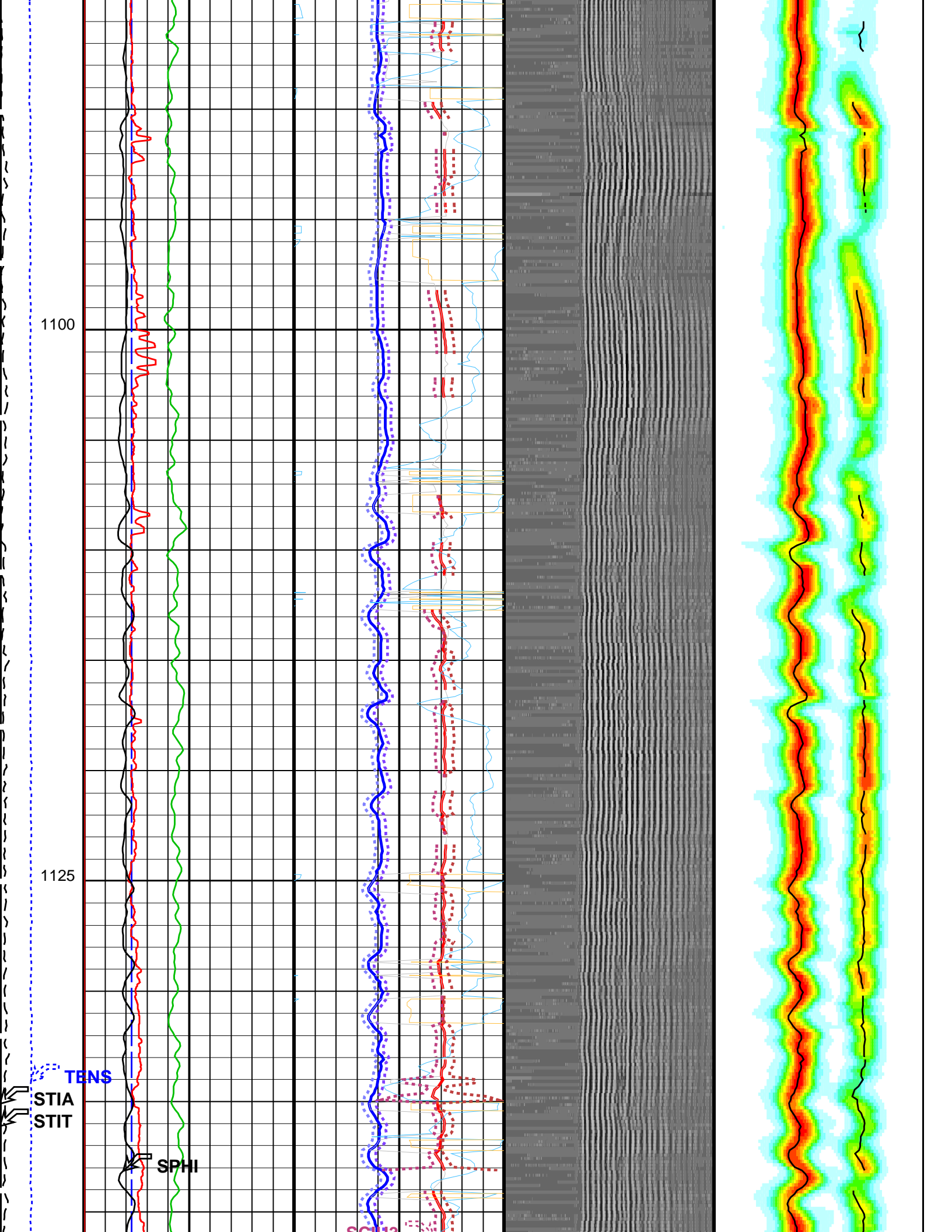


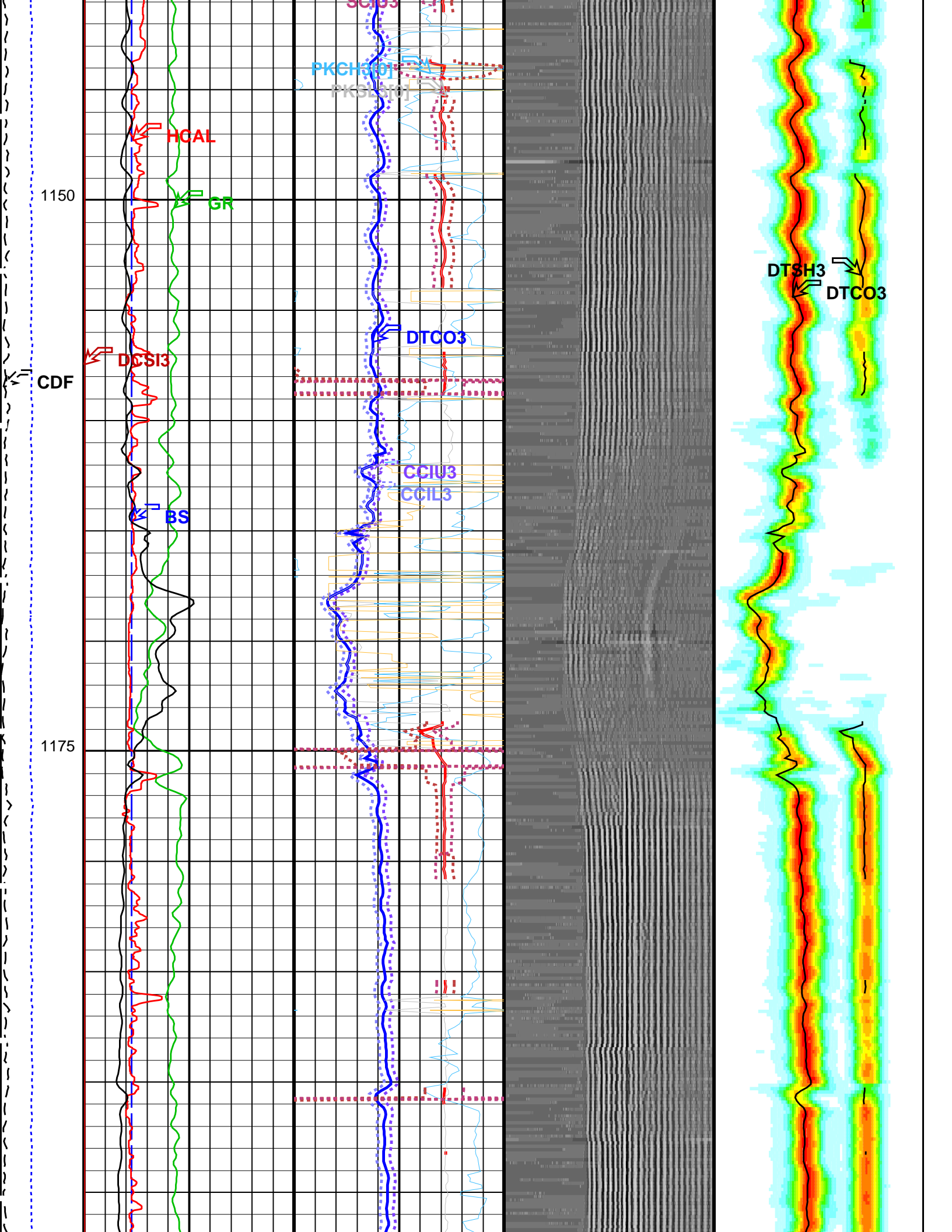


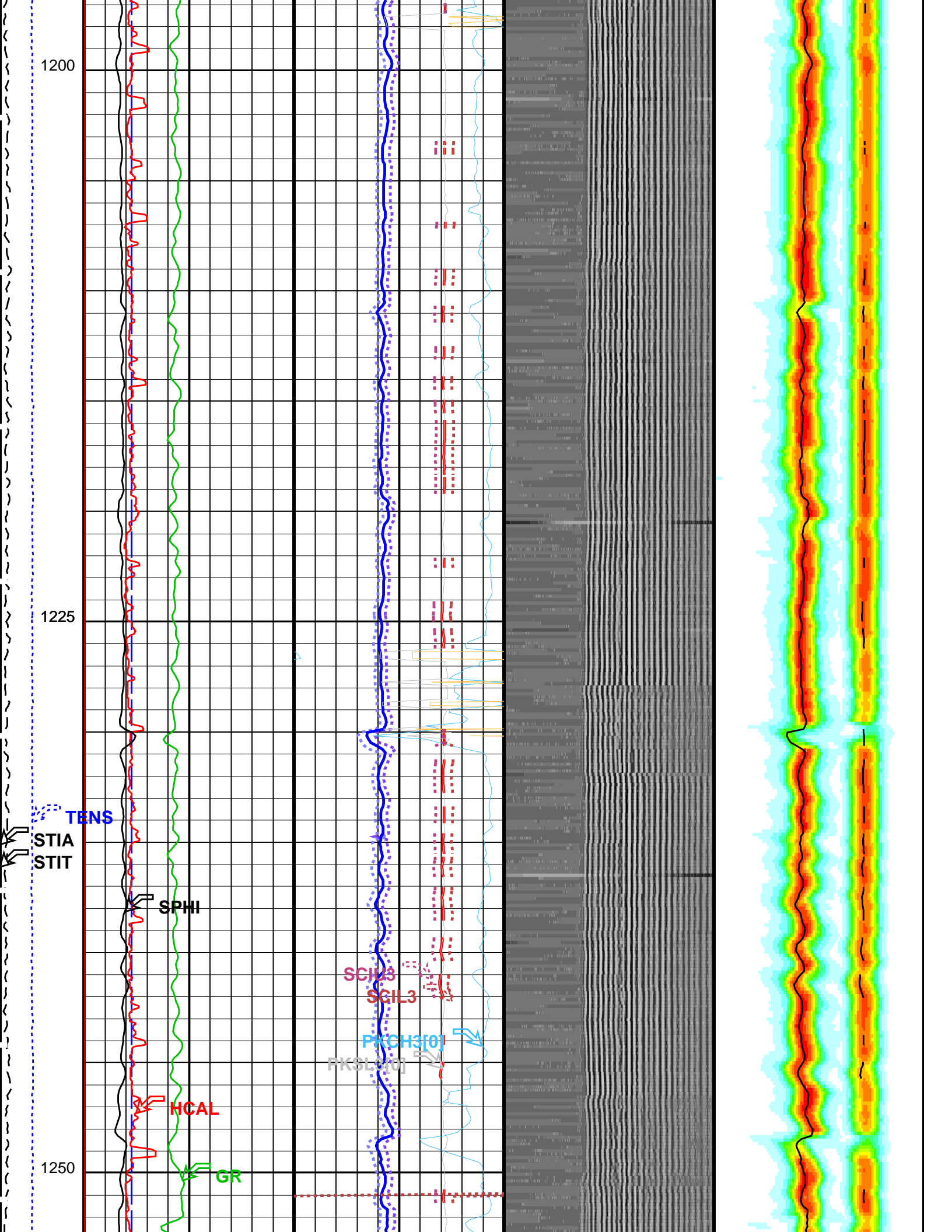


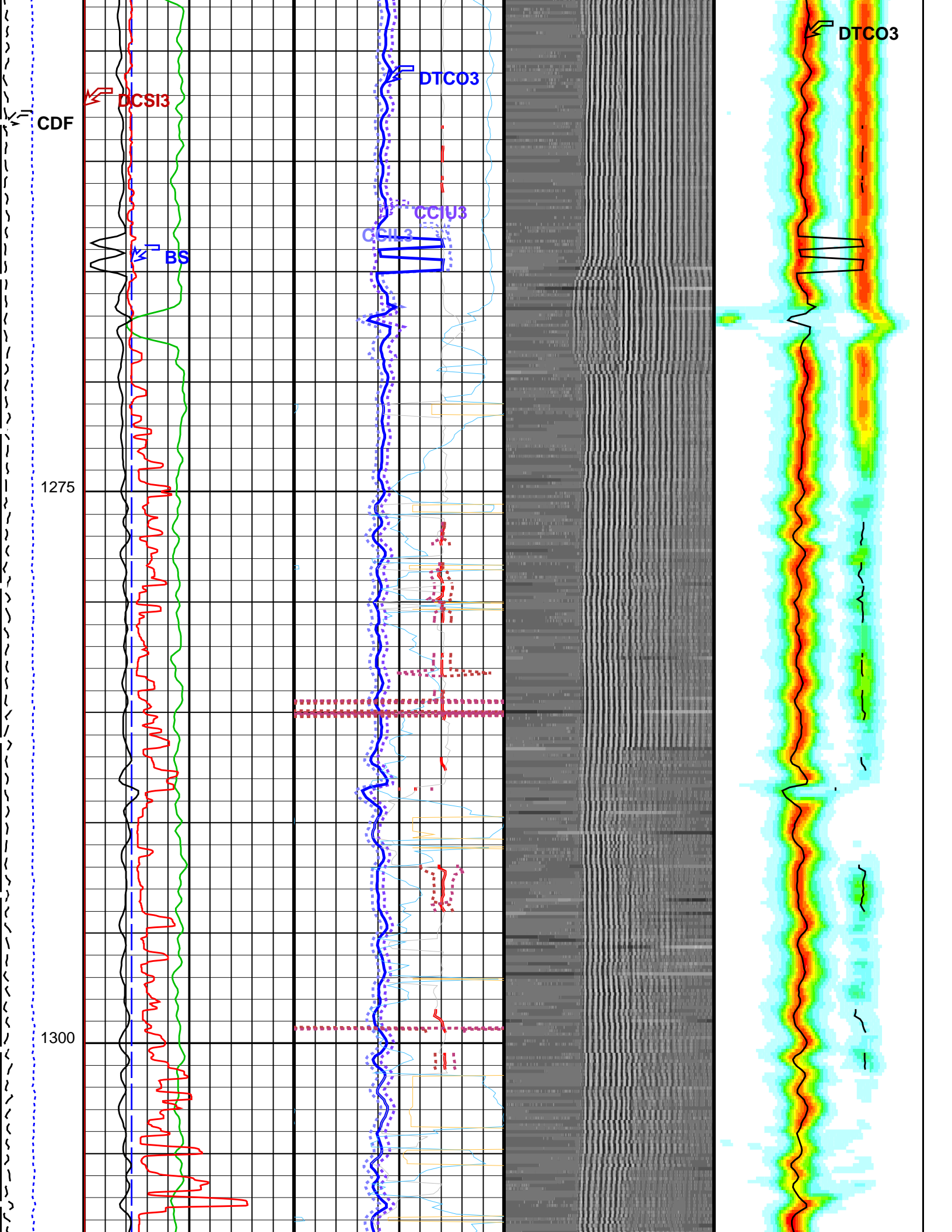


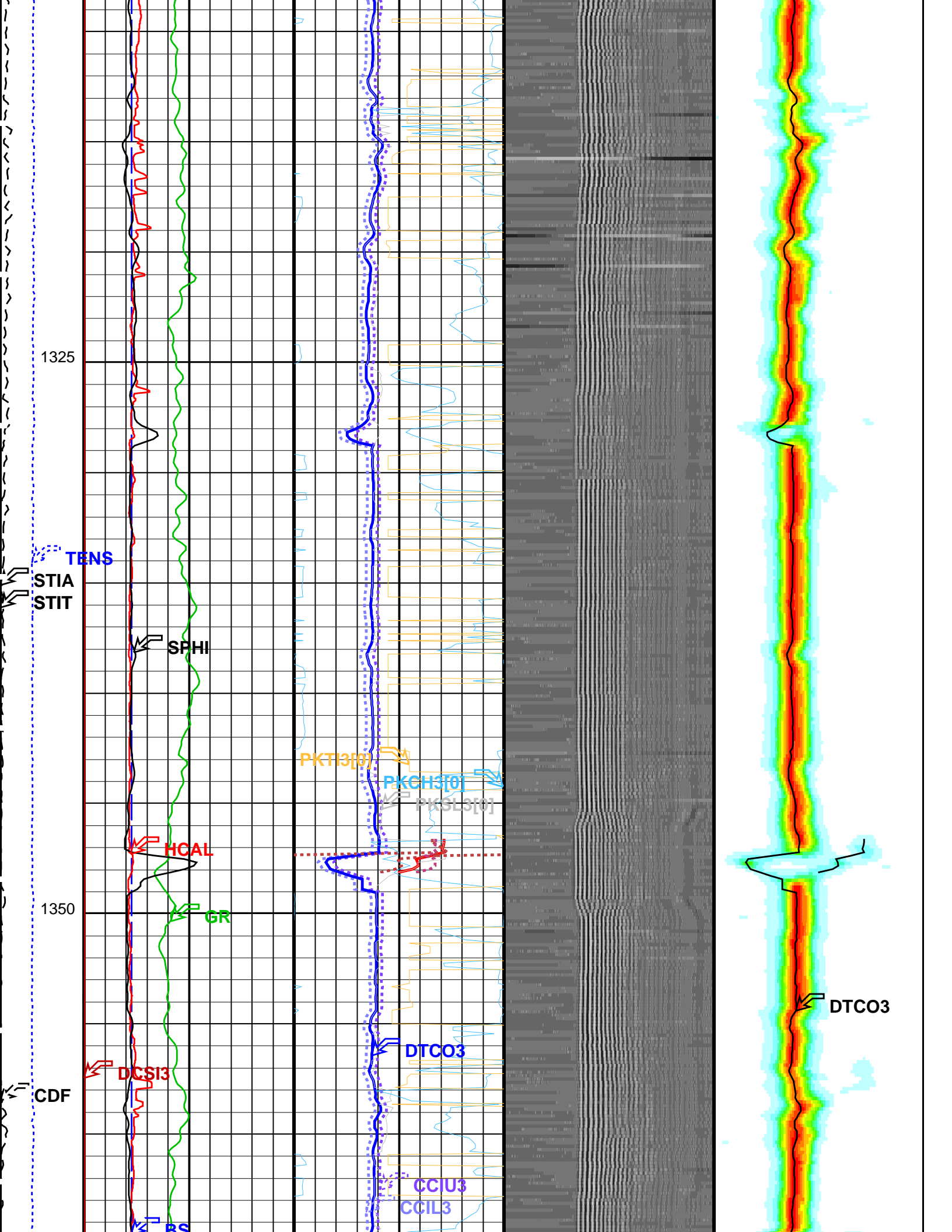


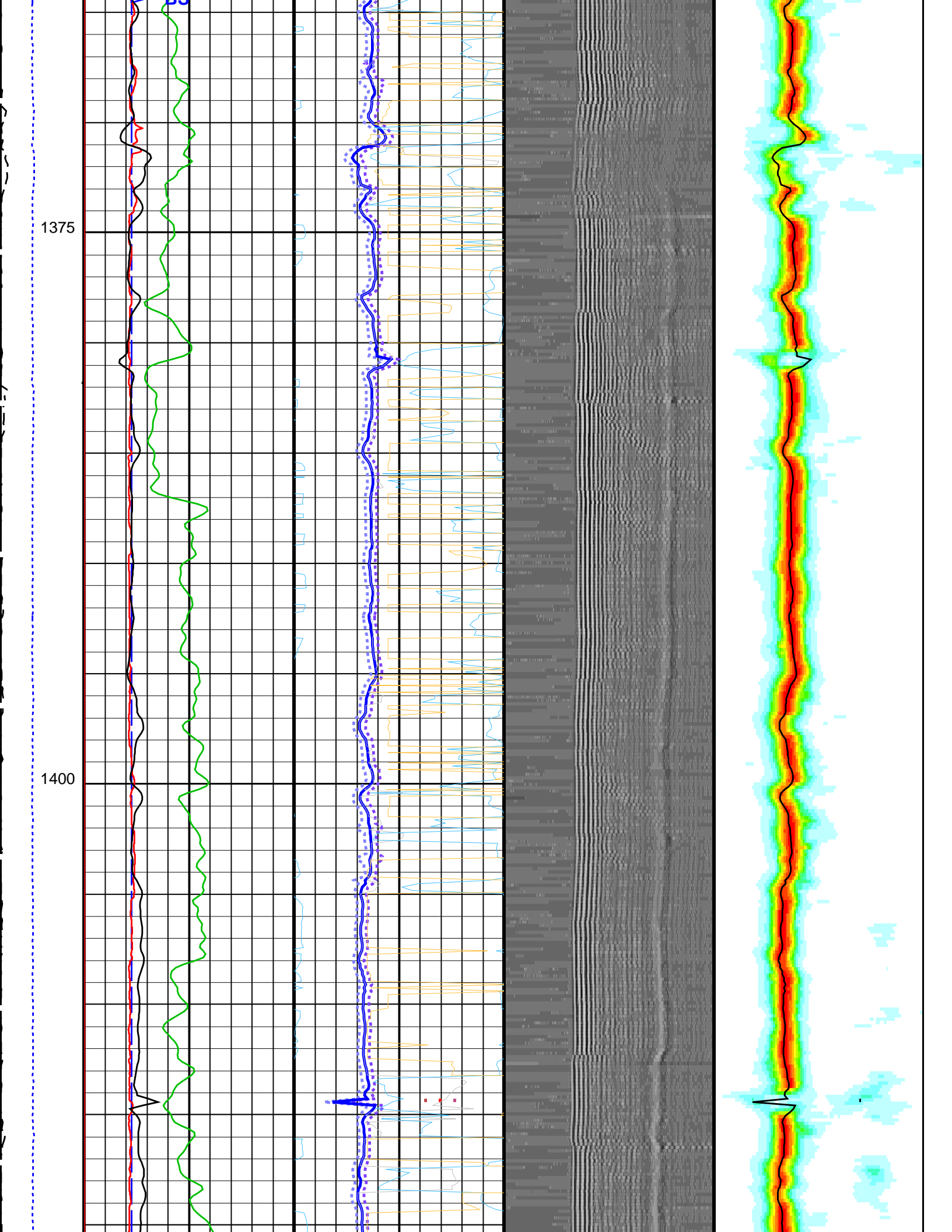


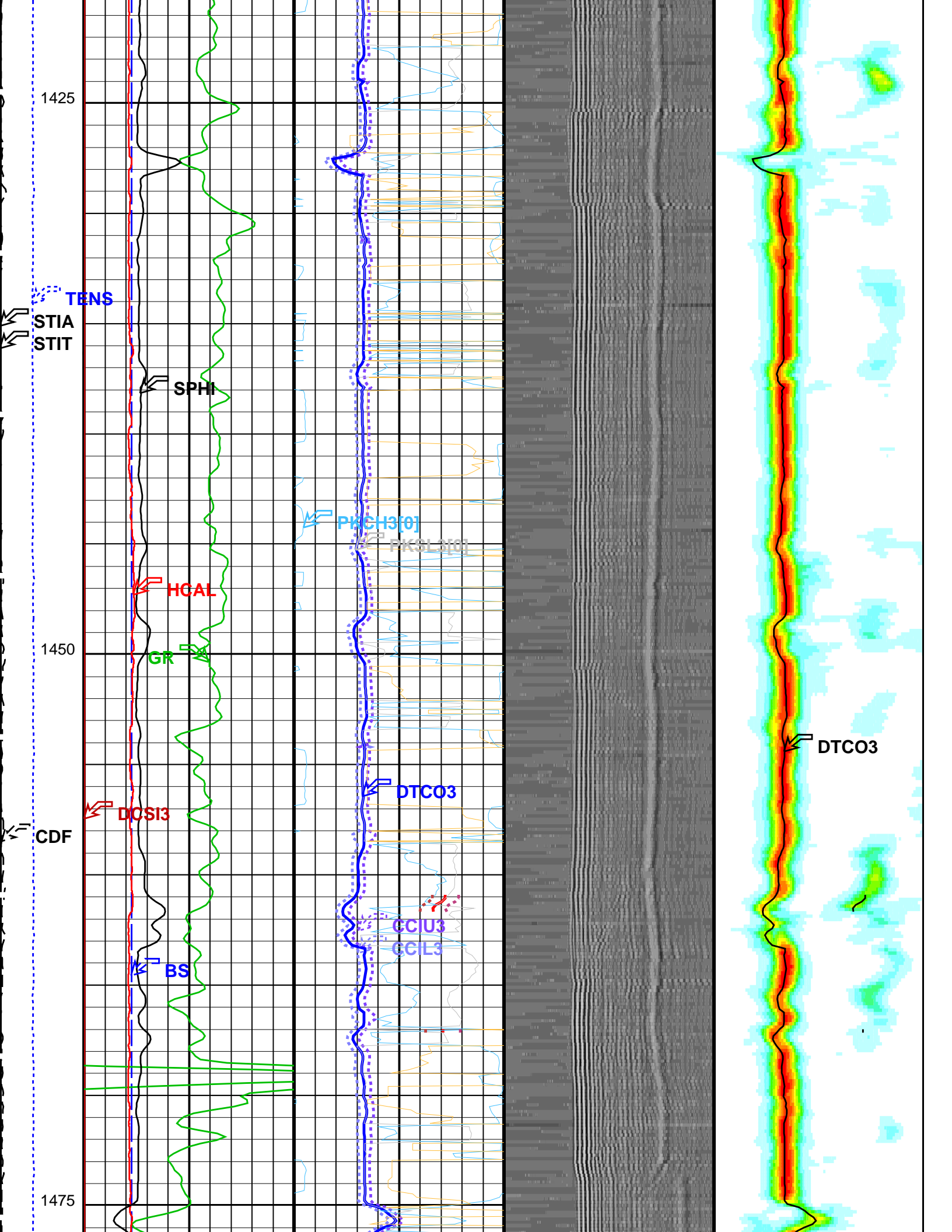


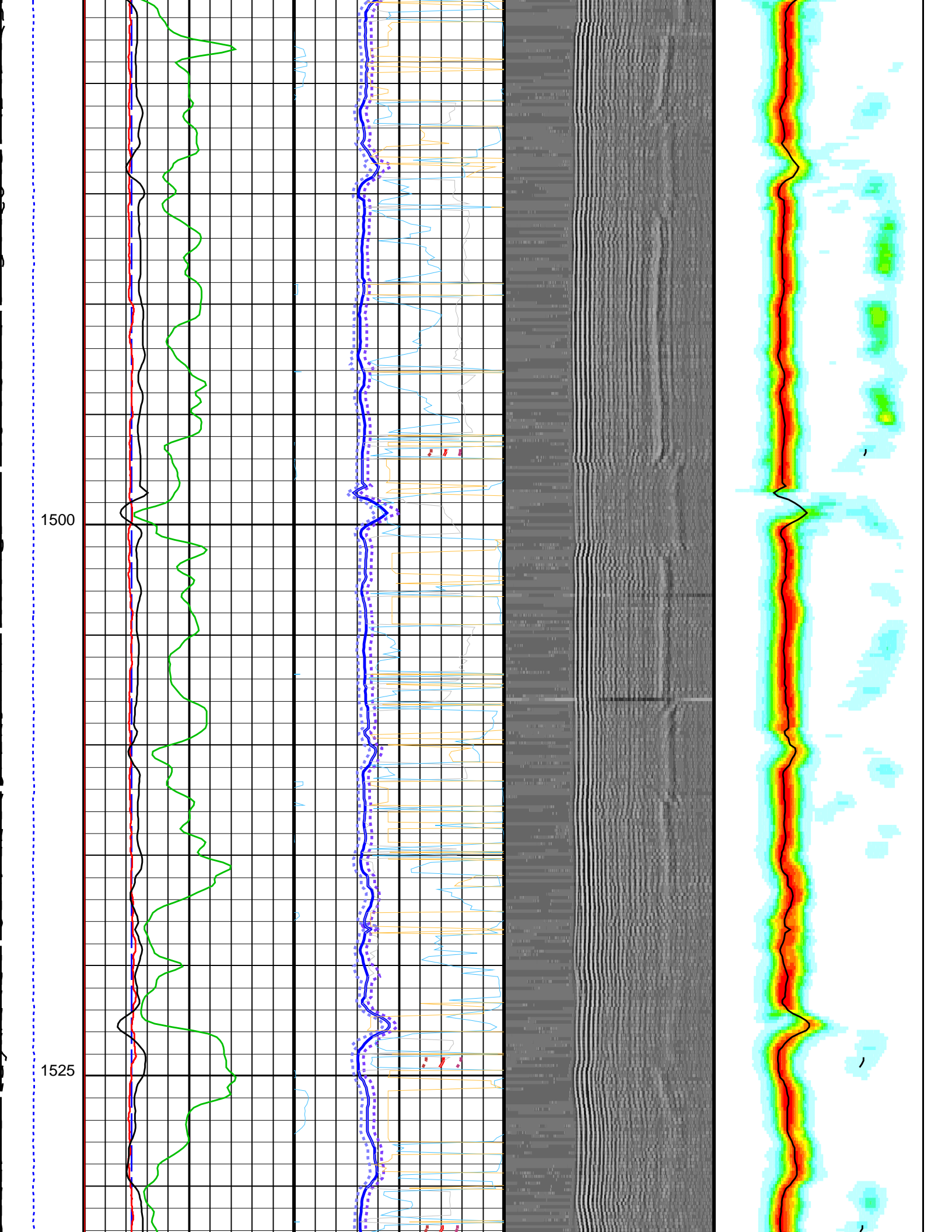


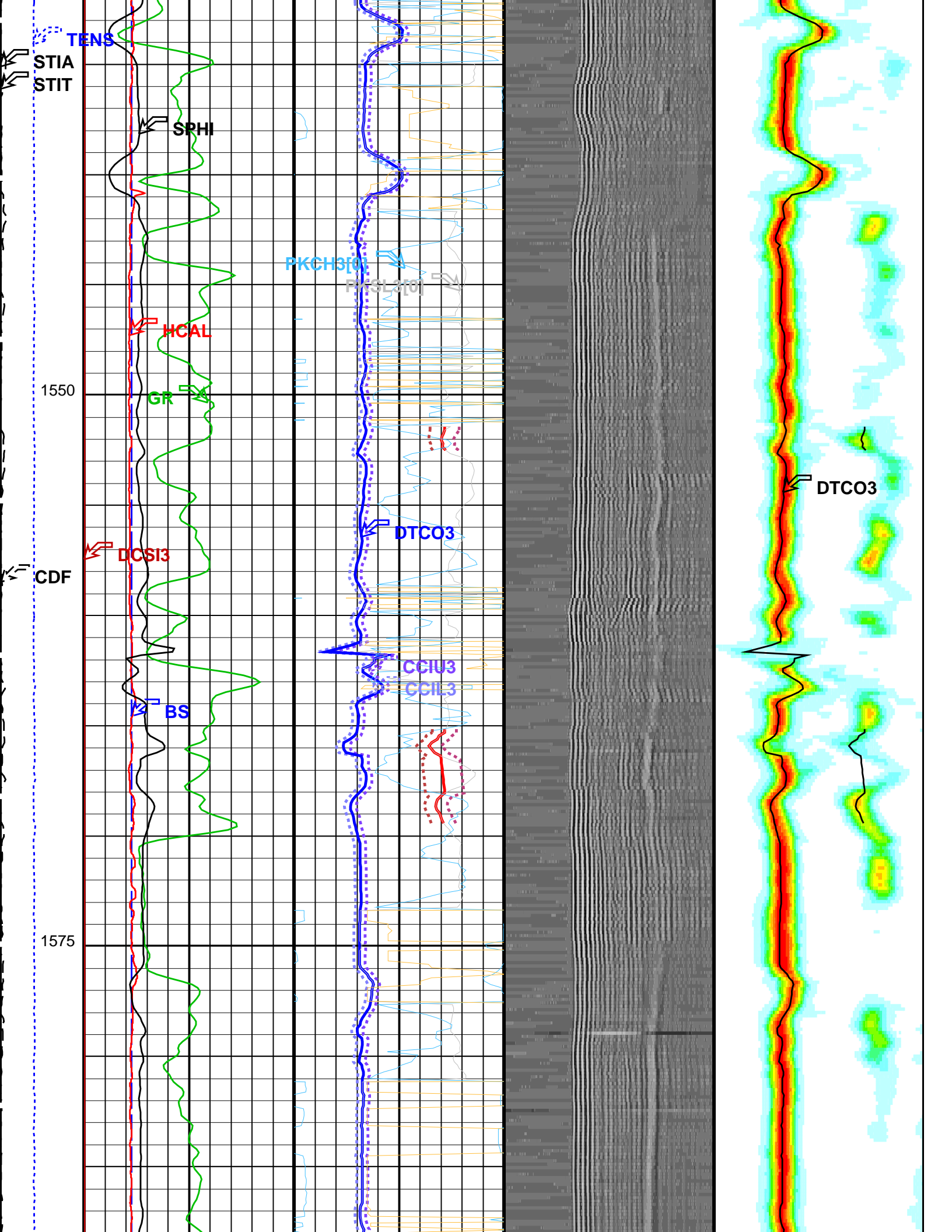


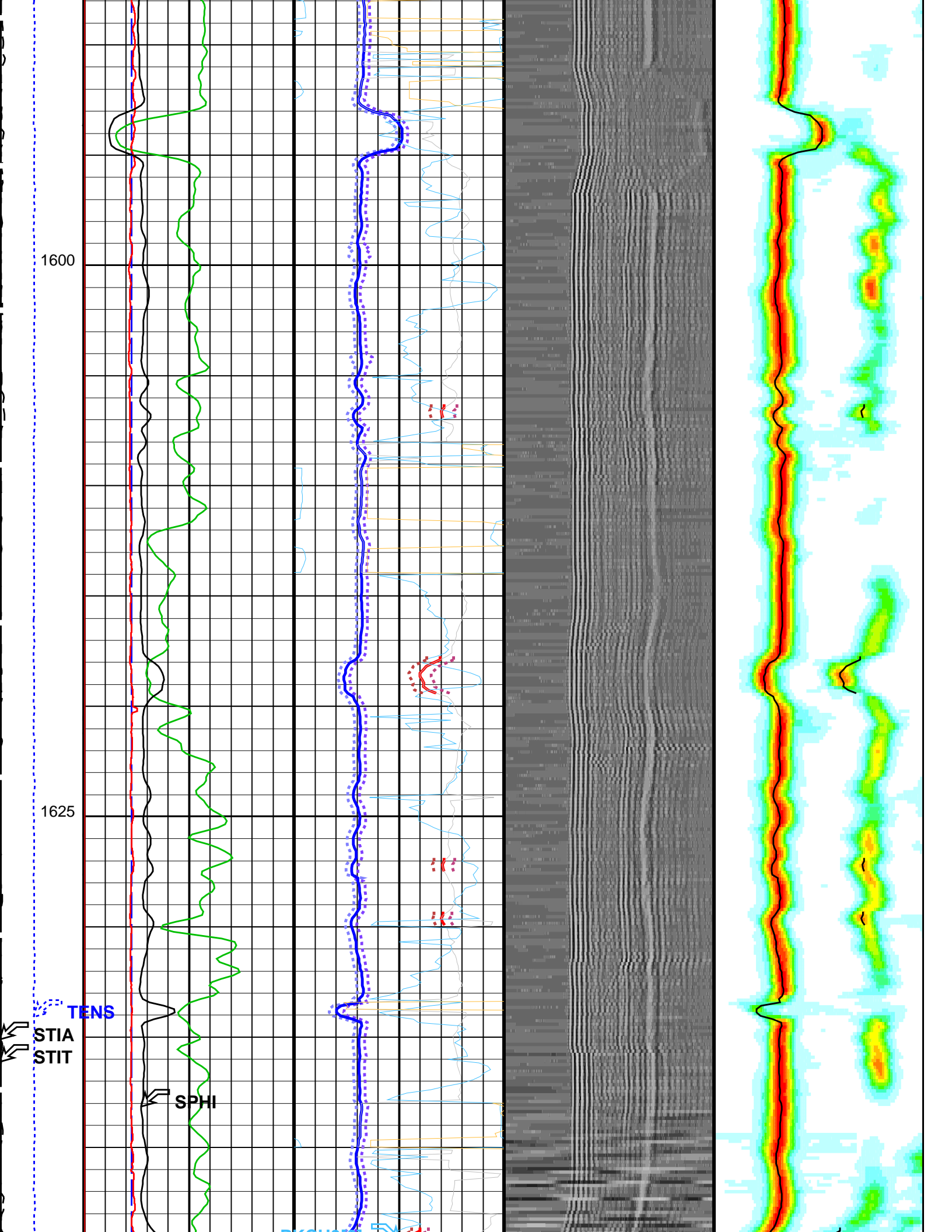


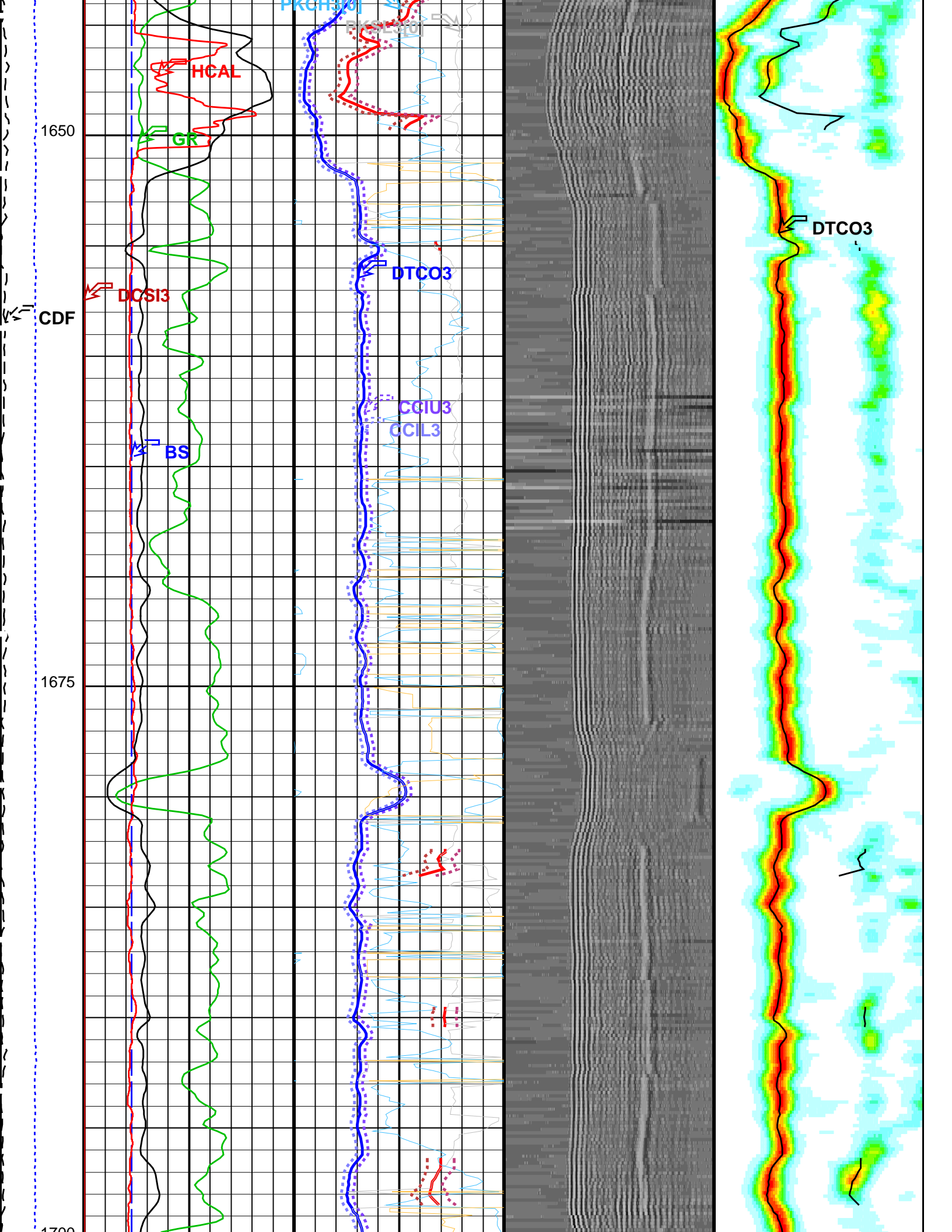


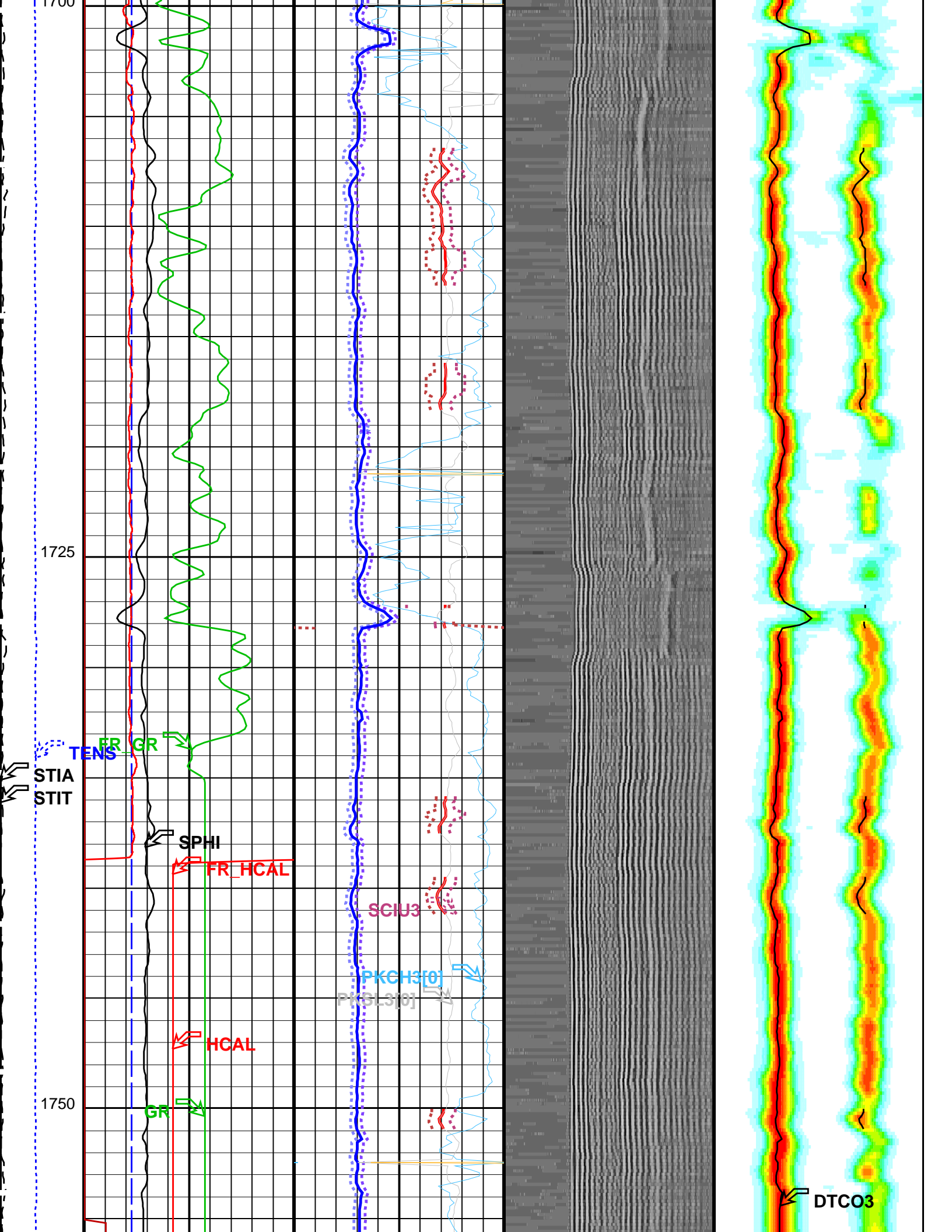


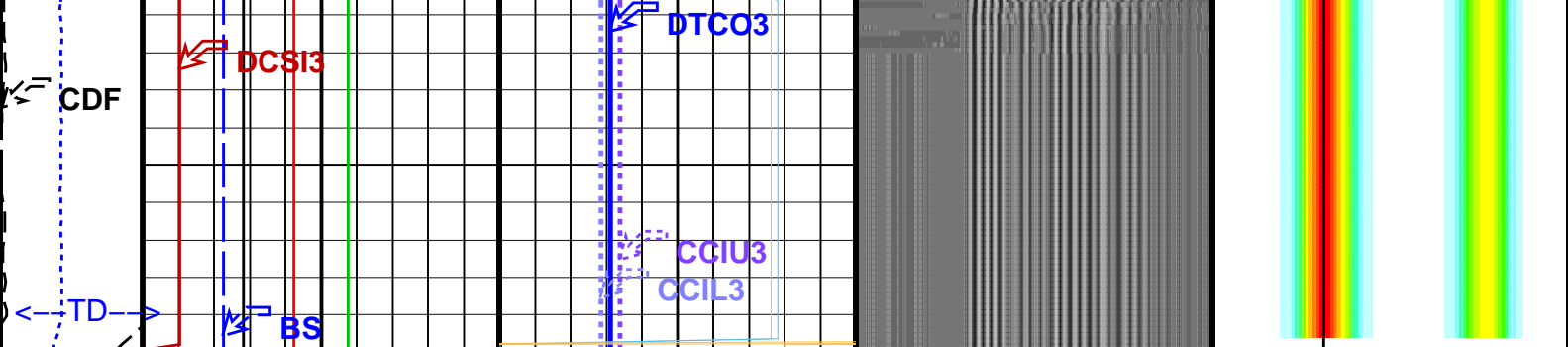












Tension (TENS) (LBF) 0 8000	Bit Size (BS) (IN) 10 20	Compressional Confidence Low 3 (CCIL3) (US/F) 40 240	Min Amplitude Max MAST MF VDL WF (DWF3_MONO) (US) 5000	Compressional Slowness 3 (DTCO3) (US/F) 40 240
Stuck Stretch (STIT) (M) 0 20	Data Copy Status Indicator 3 (DCSI3) (----) 0 10	Compressional Confidence Up 3 (CCIU3) (US/F) 40 240		Shear Slowness 3 (DTSH3) (US/F) 40 240
Cable Drag From D4T to STIT	Gamma Ray (GR) (GAPI) 0 200	Compressional Slowness 3 (DTCO3) (US/F) 40 240		Min Amplitude Max Slowness Projection 3 (SPJ3) (US/F) 40 240
Tool/Tot. Drag From D4T to STIA	HILT Caliper (HCAL) (IN) 10 20	Shear Slowness 3 (DTSH3) (US/F) 40 240		
Calibrated Downhole Force (CDF) (LBF) -200 1800	Sonic Porosity (SPHI) (V/V) 0.45 -0.15	Peak Slowness PKSL3[0] (PKSL3[0]) (US/F) 40 240		
		Peak Coherence PKCH3[0] (PKCH3[0]) (----) 0 1		
		Peak Time PKTI3[0] (PKTI3[0]) (US) 200 1200		
		Shear Confidence Low 3 (SCIL3) (US/F) 40 240		
		Shear Confidence Up 3 (SCIU3) (US/F) 40 240		

PIP SUMMARY

☒ Time Mark Every 60 S

Format: Tap_Craigow_1_Monopole Vertical Scale: 1:200 Graphics File Created: 31-Dec-2010 18:33

OP System Version: 18C0-147

PPC1	SKK-3993-PPC	MAXS-B	SKK-3935-MAST
MAPC-B	SKK-3935-MAST	HRLT-B	SRPC-4072-Q4_2010_OP18
SPA-A	18C0-147	HILTH-FTB	18C0-147
EDTC-B	SRPC-4072-Q4_2010_OP18		

Input DLIS Files

DEFAULT	CAL_MAXS_MAPC_HRLA_082LUP FN:91	PRODUCER	31-Dec-2010 16:38	1764.5 M	715.4 M
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Output DLIS Files

DEFAULT	CAL_MAXS_MAPC_HRLA_082PUP FN:97	PRODUCER	31-Dec-2010 18:33
CUST	CAL_MAXS_MAPC_HRLA_082PUC FN:98	CUSTOMER	31-Dec-2010 18:33

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Powered Positioning Device/Caliper 1 Wellsite Calibration – PPC1 Caliper Calibration							
Before: 24-Dec-2010 20:33							
PPC1 Radius 1 Raw Small Radius	3.500	N/A	4.281	N/A	N/A	0.5000	IN
PPC1 Radius 1 Raw Large Radius	8.000	N/A	8.574	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Small Radius	3.500	N/A	3.215	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Large Radius	8.000	N/A	7.628	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Small Radius	3.500	N/A	4.337	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Large Radius	8.000	N/A	8.610	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Small Radius	3.500	N/A	3.178	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Large Radius	8.000	N/A	7.659	N/A	N/A	0.5000	IN
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 1-Jan-2011 2:27							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-320.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-340.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-350.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-326.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-323.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-323.0	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	340.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	N/A	N/A	9.681	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12							
Before: 1-Jan-2011 2:27							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1766	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1867	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1920	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1793	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1779	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1777	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1875	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23							
Before: 1-Jan-2011 2:27							
HRLT M2-M3 Voltage Plus – 0	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1863	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1919	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1796	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1776	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1775	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1859	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34							
Before: 1-Jan-2011 2:27							
HRLT A3-A4 Voltage Plus – 0	0	N/A	69010	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	73620	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	75980	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	71210	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	70290	N/A	N/A	2100	UV

HRLT A3-A4 Voltage Plus - 4	0	N/A	70290	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	70200	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-72420	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Before: 1-Jan-2011 2:27

HRLT A4-A5 Voltage Plus - 0	0	N/A	68880	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	73500	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	75850	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	71100	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	70160	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70070	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-72300	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Before: 1-Jan-2011 2:27

HRLT A5-A6 Voltage Plus - 0	0	N/A	68870	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	73240	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	75670	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	70970	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70100	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	70040	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-72040	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Before: 1-Jan-2011 2:27

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68530	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-73250	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-75720	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71080	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70240	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70170	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	71980	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Before: 1-Jan-2011 2:27

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68490	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-73090	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-75560	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-70960	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70180	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70130	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	71820	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 1-Jan-2011 2:27

HRLT Source Current Plus - 0	0	N/A	285.8	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 1-Jan-2011 2:27

HRLT Vertical Voltage PI - 0	0	N/A	-323.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-334.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-343.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-319.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-313.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-327.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	347.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary

Before: 30-Dec-2010 7:19

BS Window Ratio	0.7425	N/A	0.7433	N/A	N/A	N/A	
BS Window Sum	29250	N/A	29210	N/A	N/A	N/A	CPS
SS Window Ratio	0.4838	N/A	0.4848	N/A	N/A	N/A	
SS Window Sum	12510	N/A	12470	N/A	N/A	N/A	CPS
LS Window Ratio	0.2970	N/A	0.2953	N/A	N/A	N/A	
LS Window Sum	1360	N/A	1356	N/A	N/A	N/A	CPS







High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations

Before: 30-Dec-2010 7:19

BS PM High Voltage (Command)	1328	N/A	1320	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1471	N/A	1480	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1292	N/A	1296	N/A	N/A	N/A	V
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration							
Before: 30–Dec–2010 7:19							
BS Crystal Resolution	10.61	N/A	10.60	N/A	N/A	N/A	%
SS Crystal Resolution	9.871	N/A	9.997	N/A	N/A	N/A	%
LS Crystal Resolution	8.573	N/A	8.550	N/A	N/A	N/A	%
High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration							
Before: 30–Dec–2010 7:15							
Raw B0 Resistivity	3875	N/A	3886	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3829	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3834	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration							
Before: 30–Dec–2010 7:44							
HILT Caliper Zero Measurement	8.000	N/A	7.838	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.24	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration							
Before: 30–Dec–2010 7:17							
Gamma Ray Background	30.00	N/A	7.974	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	170.2	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement							
Master: 19–Dec–2010 18:00 Before: 30–Dec–2010 7:16							
CNTC Background	25.64	25.64	25.51	N/A	N/A	3.846	CPS
CFTC Background	27.44	27.44	26.84	N/A	N/A	4.116	CPS
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement							
Master: 19–Dec–2010 18:00							
Thermal Near Corr. (Tank)	5800	5329	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2217	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.403	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration							
Before: 31–Dec–2010 23:42							
Z–Axis Acceleration	9.810	N/A	9.793	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 31–Dec–2010 23:39							
EDTC Z–Axis Acceleration	9.810	N/A	9.802	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 30–Dec–2010 12:21							
Gamma Ray (Jig – Bkg)	155.6	N/A	155.6	N/A	N/A	14.15	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI
The GLS–VJ source activity is acceptable.							
The HGNS Neutron Master Calibration was done with the following parameters :							
NCT–B Water Temperature	18.7	DEGC.					
Thermal Housing Size	3.376	IN.					
NSR–F serial number	5216						

Powered Positioning Device/Caliper 1 / Equipment Identification			
Primary Equipment:			
PPC Powered Positioning Device/Caliper	PPC1 – B	8464	
PPC1 Caliper Standard	PPC_ –	8464	
Auxiliary Equipment:			

Powered Positioning Device/Caliper 1 Wellsite Calibration							
PPC1 Caliper Calibration							
Phase	PPC1 Radius 1 Raw	Small Radius IN	Value	Phase	PPC1 Radius 1 Raw	Large Radius IN	Value
Before			4.281	Before			8.574
	1.200	3.500	5.600		6.100	8.000	9.700

(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)		
Phase PPC1 Radius 2 Raw Small Radius IN			Value		Phase PPC1 Radius 2 Raw Large Radius IN			Value	
Before			3.215		Before			7.628	
1.200 (Minimum)	3.500 (Nominal)	5.600 (Maximum)			6.100 (Minimum)	8.000 (Nominal)	9.700 (Maximum)		
Phase PPC1 Radius 3 Raw Small Radius IN			Value		Phase PPC1 Radius 3 Raw Large Radius IN			Value	
Before			4.337		Before			8.610	
1.200 (Minimum)	3.500 (Nominal)	5.600 (Maximum)			6.100 (Minimum)	8.000 (Nominal)	9.700 (Maximum)		
Phase PPC1 Radius 4 Raw Small Radius IN			Value		Phase PPC1 Radius 4 Raw Large Radius IN			Value	
Before			3.178		Before			7.659	
1.200 (Minimum)	3.500 (Nominal)	5.600 (Maximum)			6.100 (Minimum)	8.000 (Nominal)	9.700 (Maximum)		

Before: 24-Dec-2010 20:33

Multimode Array Sonic Power Cartridge / Equipment Identification

Primary Equipment:

Multimode Array Sonic Minimum Service So
Multimode Array Sonic Control Cartridge

MAMS – BA 8004
MAPC – BA 8029

Auxiliary Equipment:

Electronics Cartridge Housing

ECH – SF 8029

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:









HRLT Sonde

HRLS – B 721






Auxiliary Equipment:




HRLT lower Housing
HRLT Lower Cartridge
HRLT upper Housing
HRLT Upper Cartridge









HRLH – B 966
HRLC – B 964
HRUH – B 967
HRUC – B 985









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.5	-322.7	-280.7	-379.7
1	Before		-340.3	-322.7	-280.7	-379.7
2	Before		-350.6	-322.7	-280.7	-379.7
3	Before		-326.9	-322.7	-280.7	-379.7
4	Before		-323.9	-322.7	-280.7	-379.7
5	Before		-323.0	-322.7	-280.7	-379.7
6	Before		340.3	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum) (Nominal) (Maximum)				









Before: 1-Jan-2011 2:27

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1766	1781	2095	1549
1	Before		1867	1781	2095	1549
2	Before		1920	1781	2095	1549
3	Before		1793	1781	2095	1549
4	Before		1779	1781	2095	1549
5	Before		1775	1781	2095	1549









5	Before		1777	1781	2095	1549
6	Before		-1875	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1754	1781	2095	1549
1	Before		1863	1781	2095	1549
2	Before		1919	1781	2095	1549
3	Before		1796	1781	2095	1549
4	Before		1776	1781	2095	1549
5	Before		1775	1781	2095	1549
6	Before		-1859	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		69010	70000	82360	60900
1	Before		73620	70000	82360	60900
2	Before		75980	70000	82360	60900
3	Before		71210	70000	82360	60900
4	Before		70290	70000	82360	60900
5	Before		70200	70000	82360	60900
6	Before		-72420	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						








High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68880	70000	82360	60900
1	Before		73500	70000	82360	60900
2	Before		75850	70000	82360	60900
3	Before		71100	70000	82360	60900
4	Before		70160	70000	82360	60900
5	Before		70070	70000	82360	60900
6	Before		-72300	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						


High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum









0	Before		68870	70000	82360	60900
1	Before		73240	70000	82360	60900
2	Before		75670	70000	82360	60900
3	Before		70970	70000	82360	60900
4	Before		70100	70000	82360	60900
5	Before		70040	70000	82360	60900
6	Before		-72040	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68530	-70000	-60900	-82360
1	Before		-73250	-70000	-60900	-82360
2	Before		-75720	-70000	-60900	-82360
3	Before		-71080	-70000	-60900	-82360
4	Before		-70240	-70000	-60900	-82360
5	Before		-70170	-70000	-60900	-82360
6	Before		71980	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						







High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68490	-70000	-60900	-82360
1	Before		-73090	-70000	-60900	-82360
2	Before		-75560	-70000	-60900	-82360
3	Before		-70960	-70000	-60900	-82360
4	Before		-70180	-70000	-60900	-82360
5	Before		-70130	-70000	-60900	-82360
6	Before		71820	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						




High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		285.8	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4




7	Before		281.1	281.1	330.7	244.4
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-323.0	-322.7	-280.7	-379.7
1	Before		-334.1	-322.7	-280.7	-379.7
2	Before		-343.5	-322.7	-280.7	-379.7
3	Before		-319.2	-322.7	-280.7	-379.7
4	Before		-313.5	-322.7	-280.7	-379.7
5	Before		-327.8	-322.7	-280.7	-379.7
6	Before		347.6	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

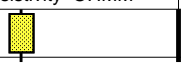
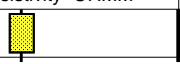
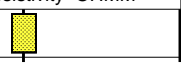
High resolution Integrated Logging Tool–DTS / Equipment Identification			
Primary Equipment:			
HILT high–Resolution Mechanical Sonde	HRMS – H	4838	
HILT Rxo Gamma–ray Device	HRGD – H	4968	
HILT Micro Cylindrically Focused Log Dev	MCFL – H	1	
GR Logging Source	GLS – VJ	5262	
HILT High Res. Control Cartridge	HRCC – H	4866	
HILT Gamma–Ray Neutron Sonde–DTS	HGNS – H	4874	
HGNS Gamma–Ray Device	HGR –		
HGNS Neutron Detector with Alpha Source	HCNT – H		
Auxiliary Equipment:			
Neutron Calibration Tank	NCT – B		
Gamma Source Radioactive	GSR – U/Y		
HGNS Housing	HGNH –	3991	

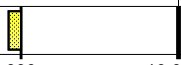
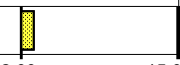
High resolution Integrated Logging Tool–DTS Wellsite Calibration														
Stab Measurement Summary														
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value	Phase	LS Window Ratio			Value
Before				0.7433	Before				0.4848	Before				0.2953
0.7054 (Minimum)					0.4596 (Minimum)					0.2822 (Minimum)				
0.7425 (Nominal)					0.4838 (Nominal)					0.2970 (Nominal)				
0.7796 (Maximum)					0.5080 (Maximum)					0.3119 (Maximum)				
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before				29210	Before				12470	Before				1356
27790 (Minimum)					11890 (Minimum)					1292 (Minimum)				
29250 (Nominal)					12510 (Nominal)					1360 (Nominal)				
30720 (Maximum)					13140 (Maximum)					1428 (Maximum)				
Before: 30-Dec-2010 7:19														

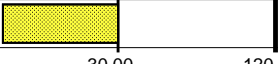

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Photo–multiplier High Voltages Calibrations									
Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value
Before				1320	Before				1480
	1228 (Minimum)	1328 (Nominal)	1428 (Maximum)			1371 (Minimum)	1471 (Nominal)	1571 (Maximum)	
					Before				1296
						1192 (Minimum)	1292 (Nominal)	1392 (Maximum)	
Before: 30–Dec–2010 7:19									





High resolution Integrated Logging Tool–DTS Wellsite Calibration															
Crystal Quality Resolutions Calibration															
Phase	BS Crystal Resolution %			Value	Phase	SS Crystal Resolution %			Value	Phase	LS Crystal Resolution %			Value	
Before				10.60	Before				9.997	Before				8.550	
9.606				10.61	8.871				9.871	7.573				8.573	9.573

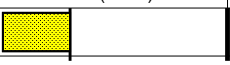
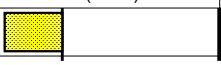
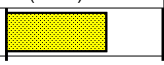
(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Before: 30-Dec-2010 7:19								

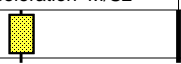
High resolution Integrated Logging Tool-DTS Wellsite Calibration														
MCFL Calibration														
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3886	Before				3829	Before				3834
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		
Before: 30-Dec-2010 7:15														

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			7.838	Before			12.24
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 30-Dec-2010 7:44							

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Detector Calibration									
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig – Bkgd) GAPI			Value
Before				7.974	Before				170.2
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)	
Before: 30–Dec–2010 7:17									


High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				25.64	Master				27.44
Before				25.51	Before				26.84
5.000 (Minimum)		25.64 (Nominal)		40.00 (Maximum)	5.000 (Minimum)		27.44 (Nominal)		40.00 (Maximum)
Master: 19–Dec–2010 18:00					Before: 30–Dec–2010 7:16				

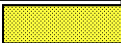


High resolution Integrated Logging Tool-DTS Wellsite Calibration														
Ratio Measurement														
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value	Phase	CNTC/CFTC (Tank)			Value
Master				5329	Master				2217	Master				2.403
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)			2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)		
Master: 19-Dec-2010 18:00														

High resolution Integrated Logging Tool-DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration M/S2	Value	
Before		9.793	
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: 31-Dec-2010 23:42			

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	77662
Enhanced DTS Cartridge	EDTC - B	8691
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8706

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.802
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 31-Dec-2010 23:39		

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			7.212	Before			155.6	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		141.5 (Minimum)	155.6 (Nominal)	169.8 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: 30-Dec-2010 12:21											

Company: **Tap Oil Limited**

Schlumberger

Well: **Craigow-1**

Field: **Craigow**

Rig: **Kan Tan IV**

Country: **Australia**

Suite 1 Run 1

MSIP-HRLT-SP-PEX-GR

Sonic Scanner Far Monopole 1:200