Schlumberger

Company: **Lakes Oil N.L.**

Well: **Wombat−4**
Field: **Wombat**
Rig: **Hunt #2** Country: **Australia**

Rig: Hunt #2
Field: Wombat
Location: GIPPSLAND BASIN
Well: Wombat−4
Company: Lakes Oil N.L.

FMI Image Log

Run 2 & 3

Scale: 1:200MD

LOCATION

GIPPSLAND BASIN		Elev.: K.B.	26.65 m
557511051 E		G.L.	23.00 m
5753093 N		D.F.	26.65 m
Permanent Datum:	Mean Sea Level	Elev.:	0.00 m
Log Measured From:	Drill Floor	26.65 m	above Perm. Datum
Drilling Measured From:	Drill Floor		

State:	Max. Well Deviation	Longitude	Latitude
Victoria	37.5 deg	147*7'35.531 S	38*22'13.069 E

	Run 1	Run 2	Run 3
Logging Date	11−Nov−2009		
Run Number	2		
Depth Driller	2500 m		
Schlumberger Depth	TD NOT TAGGED		
Bottom Log Interval	2469 m		
Top Log Interval	1388 m		
Casing Driller Size @ Depth	7.000 in @ 1375 m	@	@
Casing Schlumberger	1375 m		
Bit Size	6.125 in		
Type Fluid In Hole	KCl Polymer with Water		
MUD Density / Viscosity	9.90002 lbm/gal / 36 s		
MUD Fluid Loss / PH	6 cm3 / 8		
MUD Source Of Sample	Flowline		
RM @ Measured Temperature	0.247 ohm.m @ 30 degC	@	@
RMF @ Measured Temperature	0.207 ohm.m @ 29 degC	@	@
RMC @ Measured Temperature	0.418 ohm.m @ 24 degC	@	@
Source RMF / RMC	Flowline / Press		
RM @ MRT / RMF @ MRT	0.121 @ 83 / 0.100 @ 83	@ / @	@ / @
Maximum Recorded Temperatures	83 degC / 83 / 83		
Circulation Stopped / Time	11−Nov−2009 / 9:27		
Logger On Bottom / Time	12−Nov−2009 / 9:45		
Unit Number / Location	3061 / AURM		
Recorded By	T.Mumford/S.Corbett/O.Mazharullah		
Witnessed By	Tim O'Brien		

@

@ @ @ @

@

un 3

Run 4

DEPTH SUMMARY LISTING

Date Created: 19−NOV−2009 11:24:07

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−B	Type:	CMTD−B/A	Type:	7−42ZV XS
Serial Number:	3718	Serial Number:	2007	Serial Number:	6284
Calibration Date:	01−Jul−09	Calibration Date:	20−Oct−09	Length:	5482 M
Calibrator Serial Number:	30	Calibrator Serial Number:	1050	Conveyance Method:	Wireline
Calibration Cable Type:	7−42ZV XS	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	−4	Calibration RMS:	12		
Wheel Correction 2:	−4	Calibration Peak Error:	27		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	HALS−BHC−PEX
Reference Log Run Number:	1
Reference Log Date:	28−Oct−09

Depth Control Remarks

1. All Schlumberger depth control procedures followed
2. IDW used as primary depth control, Z−Chart as secondar
3. Run 2 (top section) was a subsequent log, Run 3 (bottom section) was a subsequent trip

OTHER SERVICES1

OS1:	HRLA−PEX−HNGS
OS2:	FMI−SS
OS3:	MSCT
OS4:	VSI−4
OS5:	Perfo

REMARKS: RUN NUMBER 1

Log Objective: Evaluate the characteristics of the 6.125" open hole section.

Wombat 4 is an appraisal well in Gippsland Basin

Maximum temperature recorded was 83degC from LEH−QT thermometers.

Log was done in two passes due to extremely tight well conditions. Top Section was survey from 1388m to 1601m

Bottom section surveyed from 1545m to 2469m.

FMI logged with Auto Emex and Auto Gain High

Bottom section logged with different mud parameters:

Drilling Fluid Density: 10.8lbm/gal, Fluid Loss: 14cm3, Viscosity: 42s,PH: 8,

FMI suffers from 'stick and slip' in poor hole conditions, data quality effected.

Magnetic Field Intensity: 47.8177 A/M

Magnetic Field Parameters:

Magnetic Field Declination: 12.6726 deg

Magnetic Field Inclination: −68.9552 deg

Toolstring run as per tool sketch.

After Calibrations and Repeat Pass not requested by client due to well conditions.

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RUN 1		RUN 2	
SERVICE ORDER #:	B6PE−00025	SERVICE ORDER #:	
PROGRAM VERSION:	17C0−154	PROGRAM VERSION:	
FLUID LEVEL:	0 m	FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

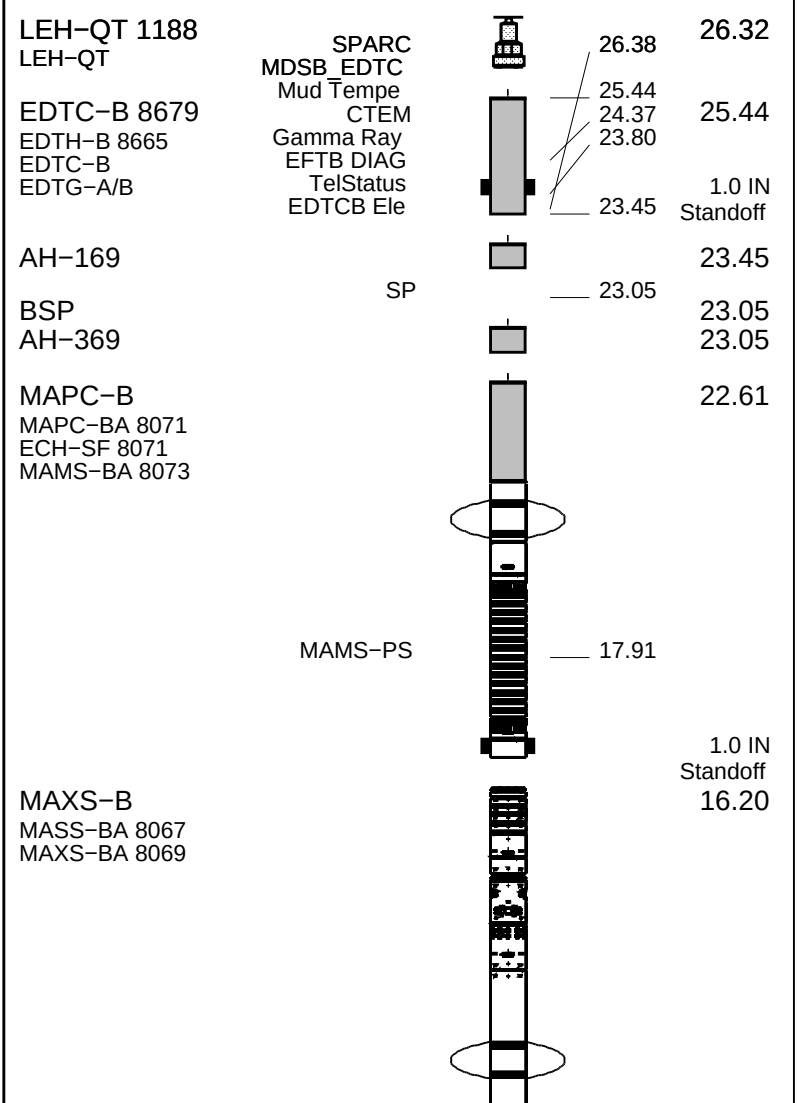
EQUIPMENT DESCRIPTION

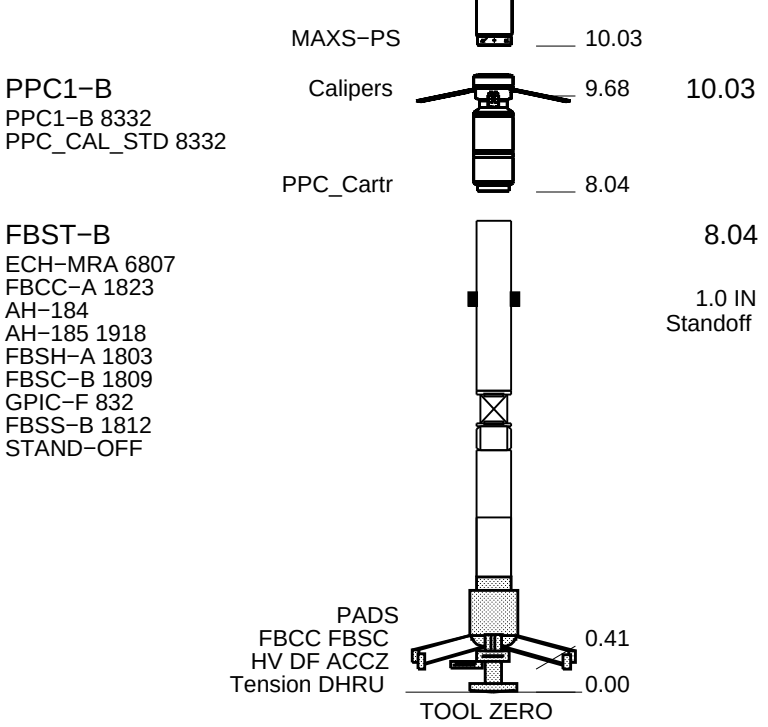
RUN 1 | RUN 2

SURFACE EQUIPMENT

WITM (EDTS)−A

DOWNHOLE EQUIPMENT

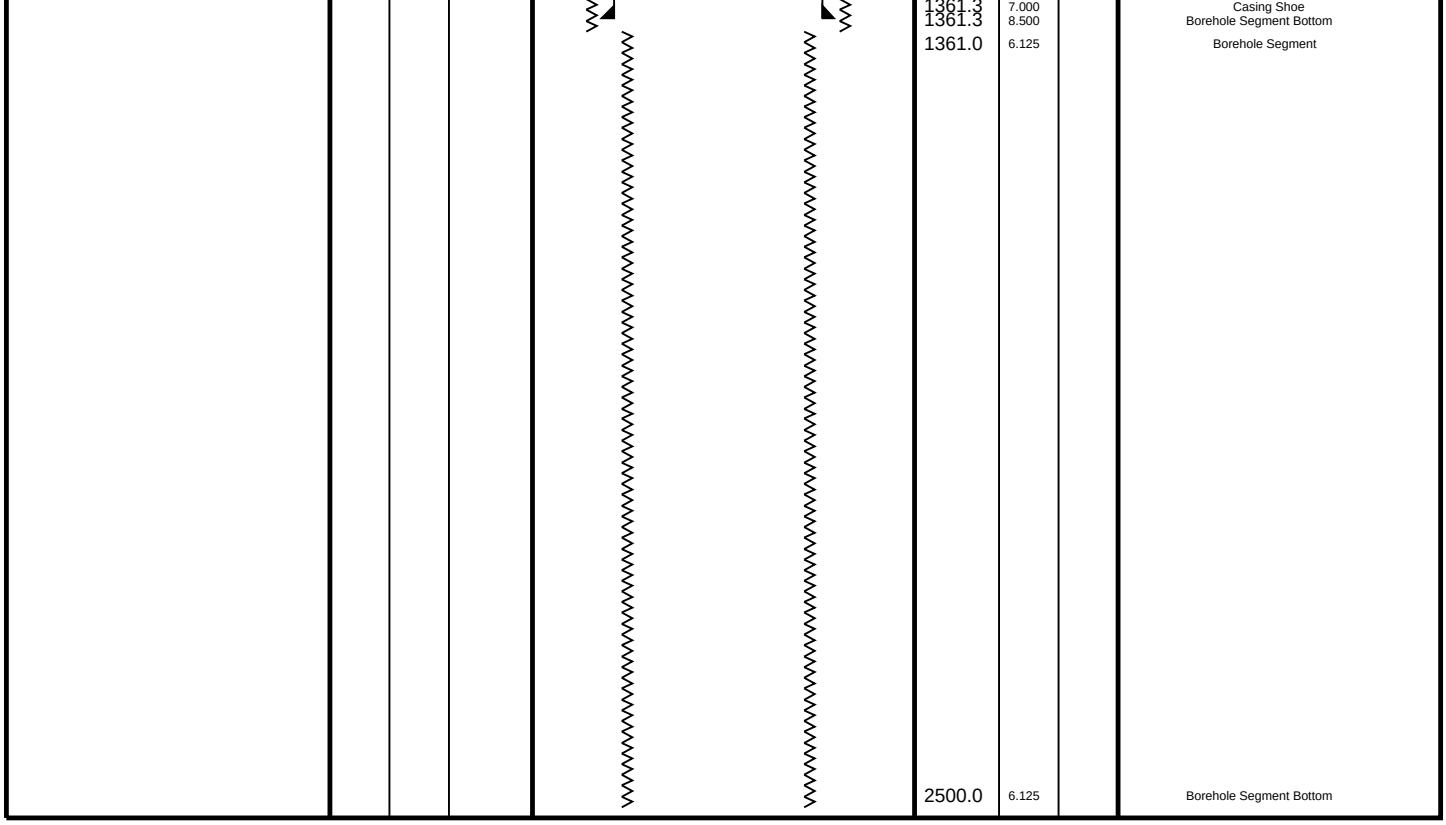




MAXIMUM STRING DIAMETER 5.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client:	Lakes Oil	Drawing Date:	11/12/2009
Well:	Wombat 4	API #:	
Field:	Wombat	Rig Name:	Hunt 2
State:	Victoria	Reference Datum:	Derrick Floor
Country:	Australia	Elevation:	26.6 m

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String
					0.0	7.000		Casing String
					0.0	9.625		Casing String
					299.0	9.625		Casing Shoe
					299.0	8.500		Borehole Segment



All Depths are drillers depths

Schlumberger

Main Pass
Top Section

MAXIS Field Log

Company: Lakes Oil N.L. **Well: Wombat−4**

Input DLIS Files

Splice_FMI_CAL_MAXS_027CUP	FN:1	13−Nov−2009 17:59	1602.0 M	1401.6 M

Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_034PUP	FN:51	PRODUCER	14−Nov−2009 12:04
CUSTOMER	FMI_CAL_MAXS_MAPC_034PUC	FN:52	CUSTOMER	14−Nov−2009 12:04

OP System Version: 17C0−154

FBST−B	17C0−154	PPC1−B	17C0−154
MAXS−B	SKK−3853−MAST	MAPC−B	SKK−3853−MAST
BSP	17C0−154	EDTC−B	SKK−3882−EDTCB

PIP SUMMARY

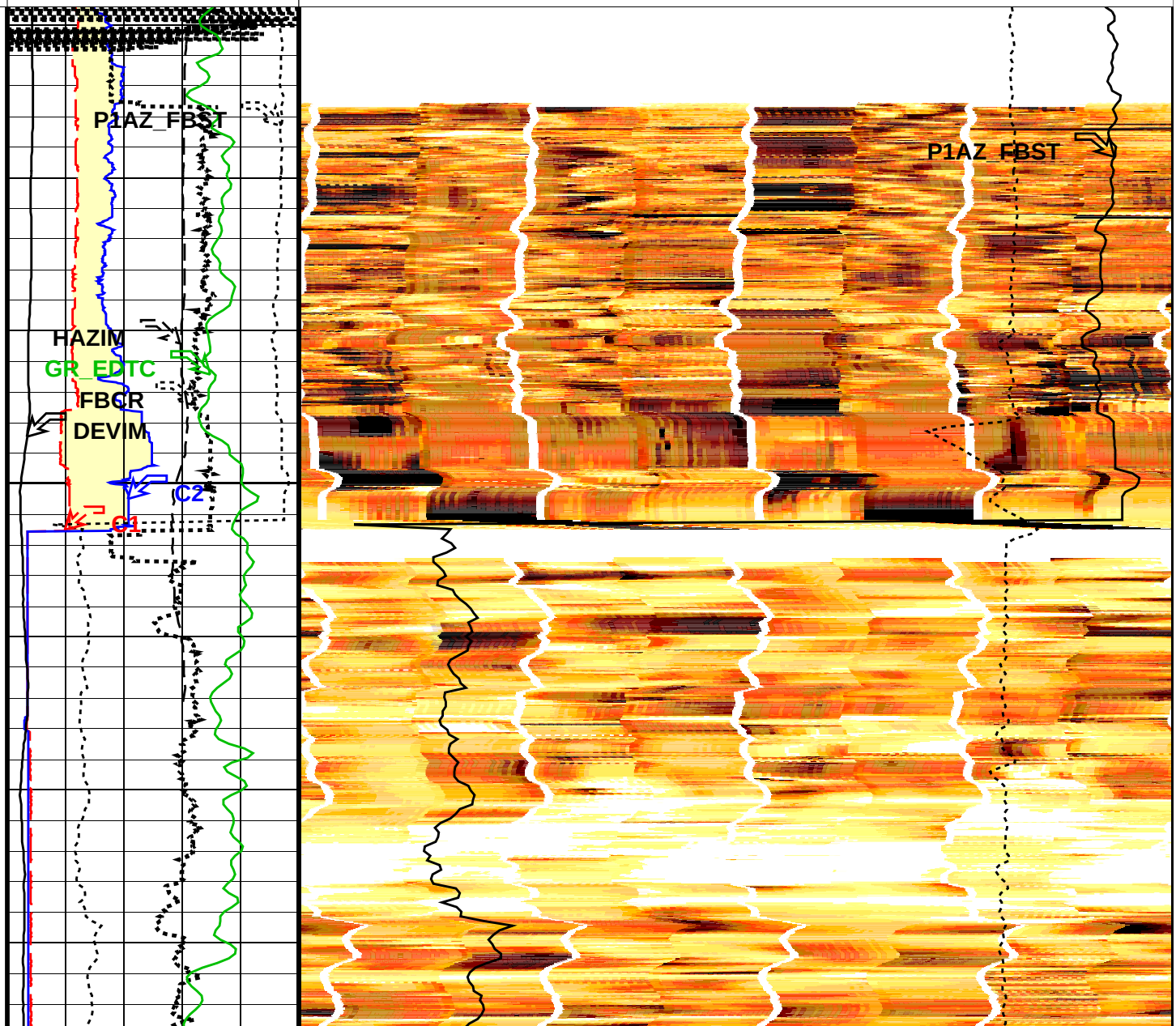
Time Mark Every 60 S

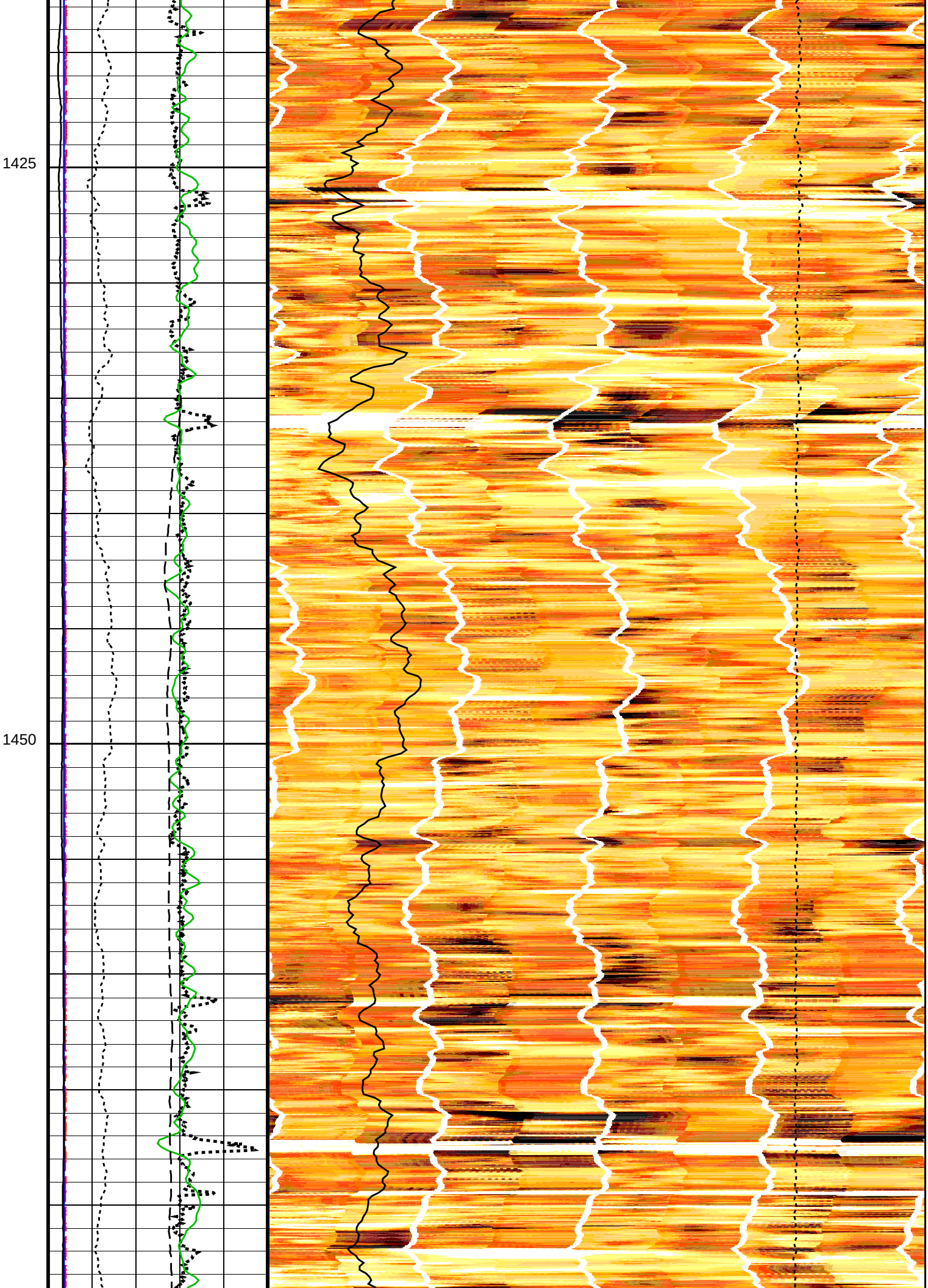
FMI Correlation Resistance (LOG) (FBCR)	2 (KOHM) 2000
Pad One Azimuth (P1AZ_FBST)	−40 (DEG) 360
Hole Azimuth (HAZIM)	−40 (DEG) 360
Gamma Ray (GR_EDTC)	0 (GAPI) 150
Deviation (DEVIM)	0 (DEG) 10
Tension (TENS)	5000 (LBF) 0
Caliper 2 (C2)	4 (IN) 14
Caliper 1 (C1)	4 (IN) 14

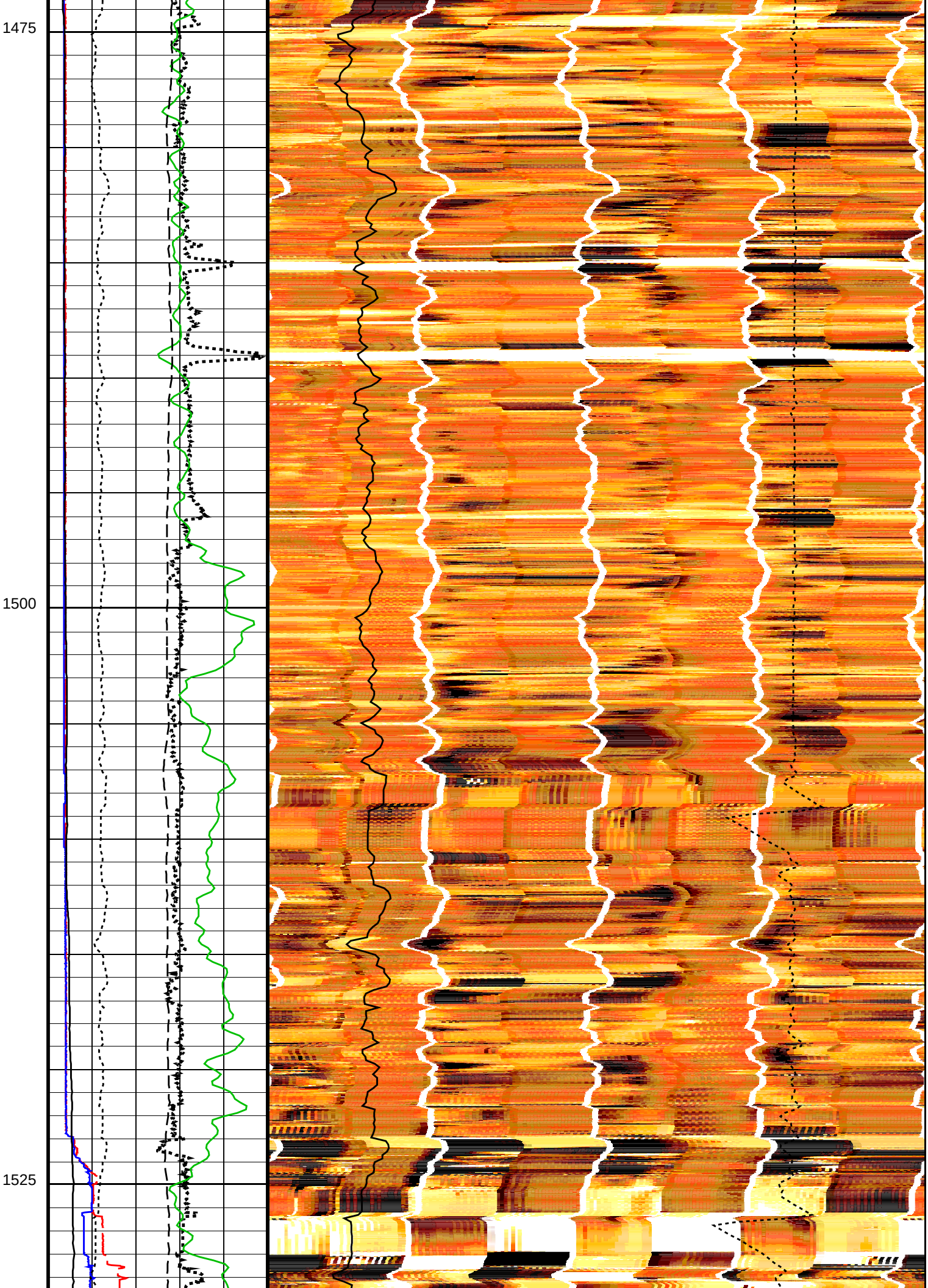
FBST/PADA (FBAA_P) (−−−−)

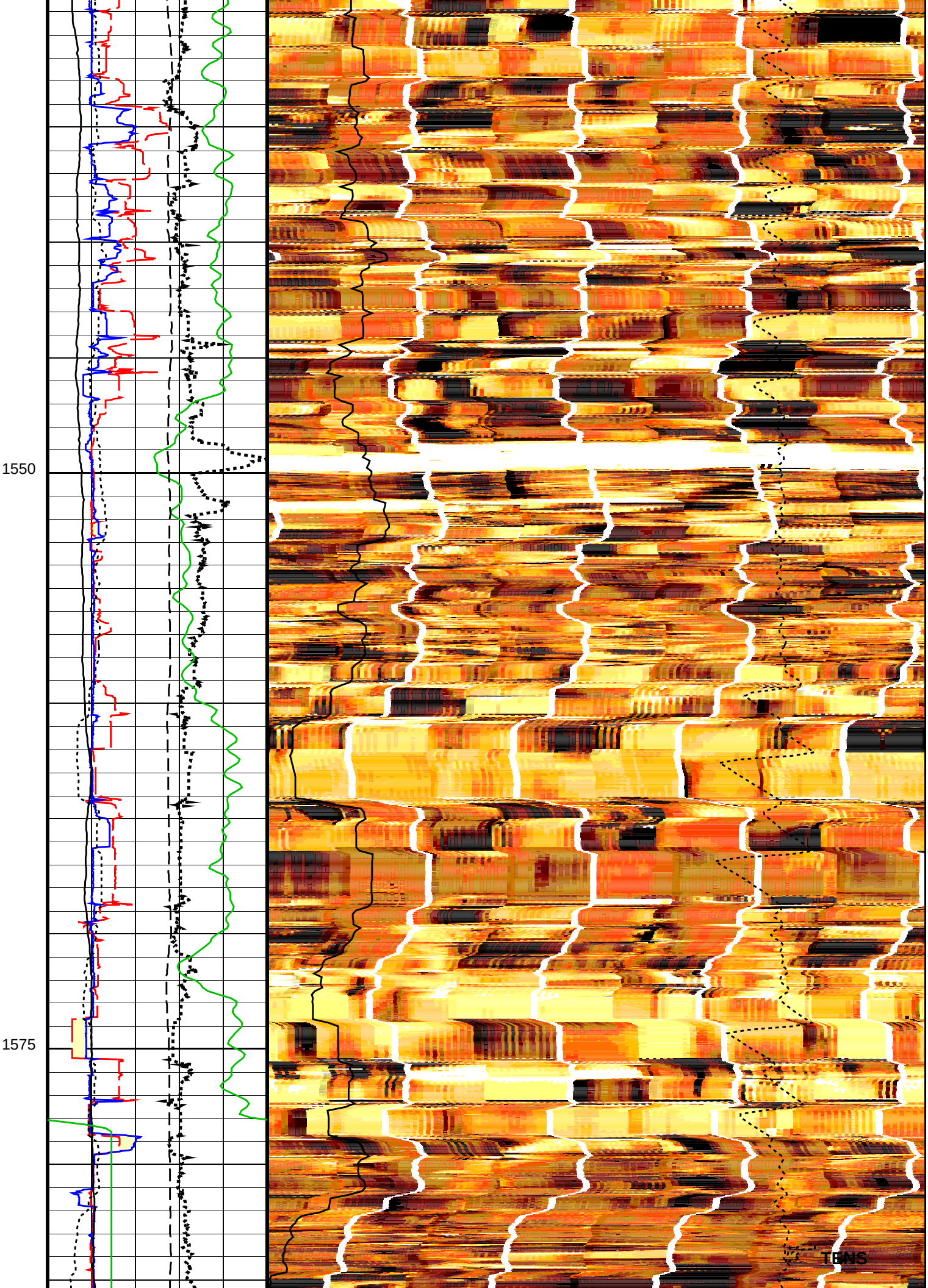
163.1780 201.2760 227.4500 247.5270 262.5290 278.1130 293.6110 308.1520 321.2940 333.4590 346.0600 358.7500 374.1080 393.4660 421.5200 476.5410

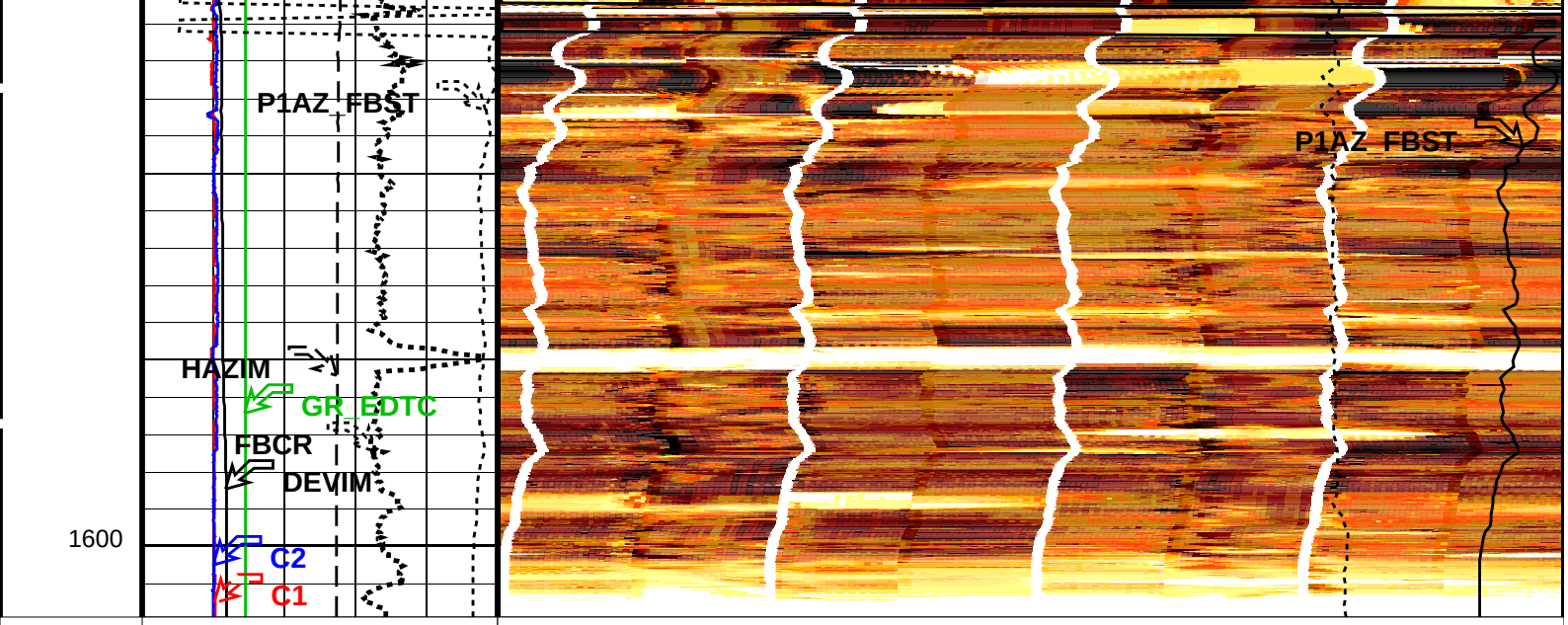
Image Orientation (P1AZ_FBST) 0 (DEG) 360




1425
1450


1475
1500
1525


1550
1575
TENS



Caliper 1 (C1)
4 (IN) 14

Image Orientation (P1AZ_FBST)
0 (DEG) 360

Caliper 2 (C2)
4 (IN) 14

163.1780 201.2760 227.4500 247.5270 262.5290 278.1130 293.6110 308.1520 321.2940 333.4590 346.0600 358.7500 374.1080 393.4660 421.5200 476.5410

FBST/PADA (FBAA_P)
(----)

Deviation (DEVIM)
0 (DEG) 10

Tension (TENS)
5000 (LBF) 0

Gamma Ray (GR_EDTC)
0 (GAPI) 150

Hole Azimuth (HAZIM)
−40 (DEG) 360

Pad One Azimuth (P1AZ_FBST)
−40 (DEG) 360

FMI Correlation Resistance (LOG) (FBCR)
2 (KOHM) 2000

PIP SUMMARY

Time Mark Every 60 S

FMI Image Equalised .

Resistive (White) to Conductive (Black)

Format: FMI_BS_WRAP_BY_P1AZ_200 Vertical Scale: 1:200 Graphics File Created: 14−Nov−2009 12:04

OP System Version: 17C0−154

FBST−B	17C0−154	PPC1−B	17C0−154
MAXS−B	SKK−3853−MAST	MAPC−B	SKK−3853−MAST
BSP	17C0−154	EDTC−B	SKK−3882−EDTCB

Parameters

DLIS Name	Description	Value
FBST−B: Full−Bore Scanner − B		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
EGCO	FMI EMEX and GAIN Correction	NO
FDBD	FMI Dead Buttons detection	AUTO
FDBP	FMI Dead Buttons Patching	OFF

FDBP	FMI Dead Buttons Patching	OFF	
FIEQ	FMI Image Equalisation	ON	
FLM	FMI Logging Mode	8PAD	
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.6725	DEG
SOFF	Standoff	0.975	IN
XGAI_FBST	Gain Value in Manual Mode	0_dB	
XGMO	EMEX & Gain Modes	EmexAuto_GainAutoHighRange	
XVOL	EMEX Voltage	0	V
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
DO	Depth Offset for Playback	−0.1	M
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	

Input DLIS Files

Splice_FMI_CAL_MAXS_027CUP	FN:1	13−Nov−2009 17:59	1602.0 M 1401.6 M

Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_034PUP	FN:51	PRODUCER	14−Nov−2009 12:04
CUSTOMER	FMI_CAL_MAXS_MAPC_034PUC	FN:52	CUSTOMER	14−Nov−2009 12:04

Schlumberger

Main Pass
Bottom Section

MAXIS Field Log

Company: Lakes Oil N.L. Well: Wombat−4

Input DLIS Files

FMI_CAL_MAXS_MAPC_027PUP	FN:24	16−Nov−2009 11:01	2471.0 M 1528.1 M

OP System Version: 17C0−154

FBST−B	17C0−154	PPC1−B	17C0−154
BSP	17C0−154	EDTC−B	SKK−3882−EDTCB

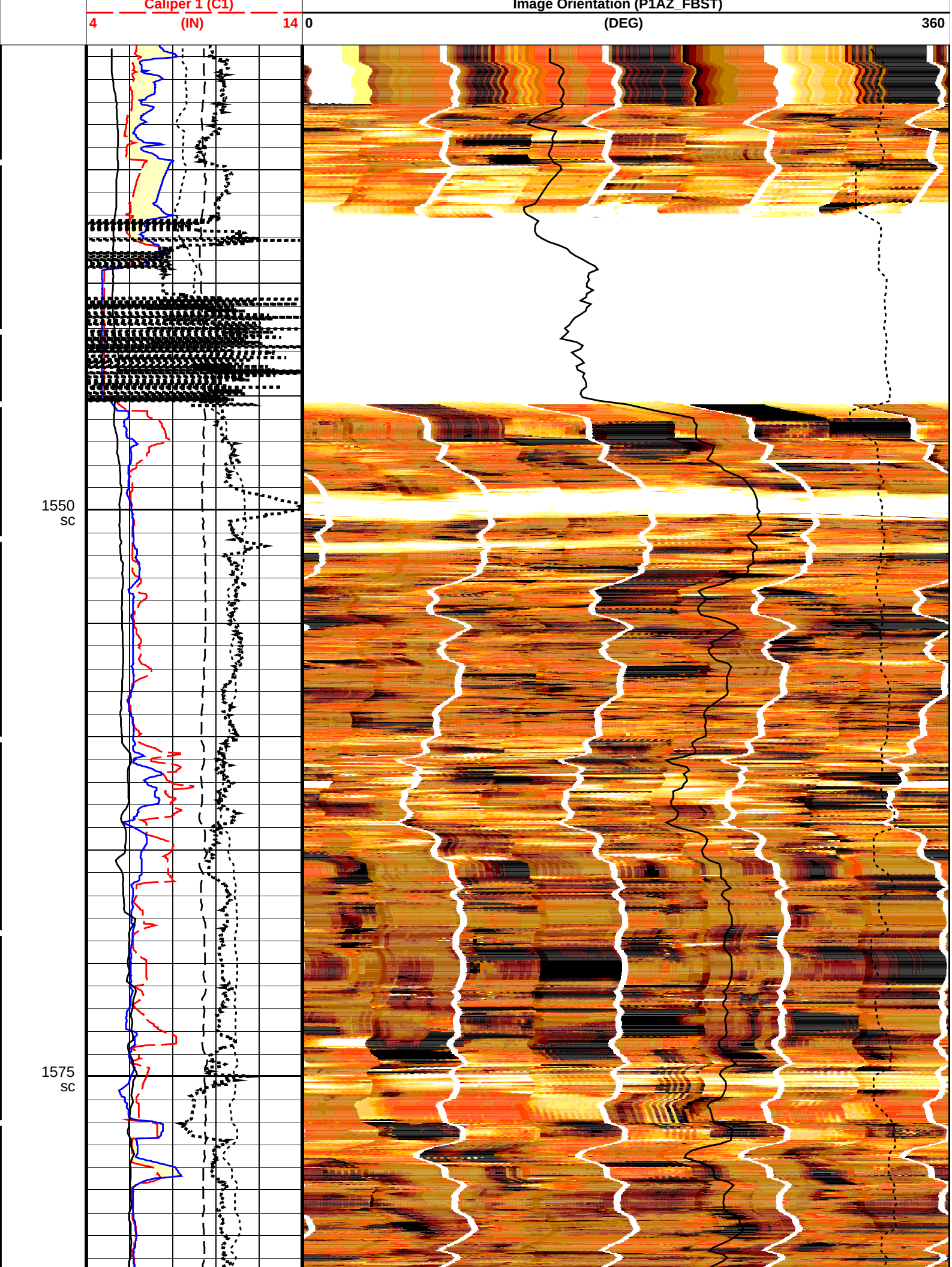
PIP SUMMARY

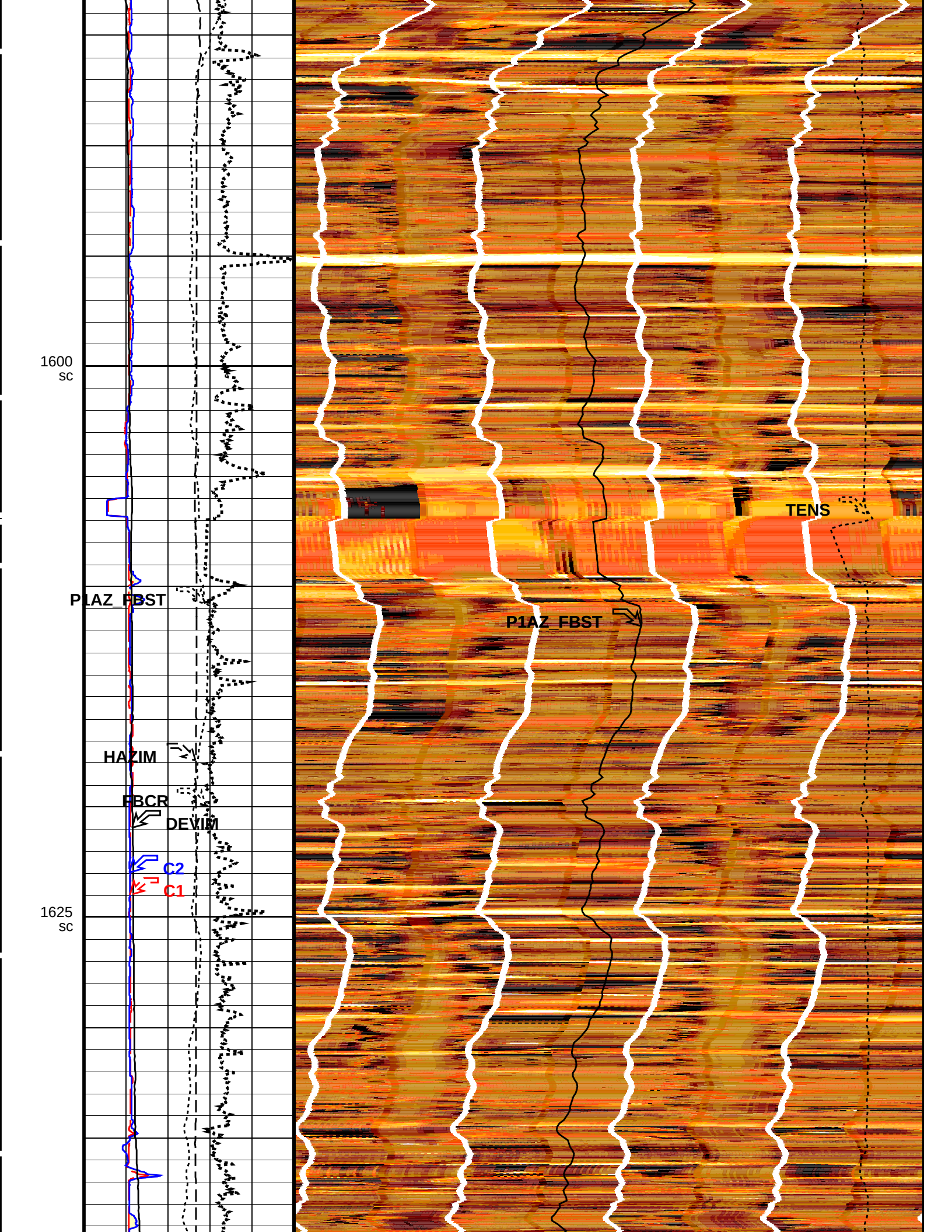
Time Mark Every 60 S

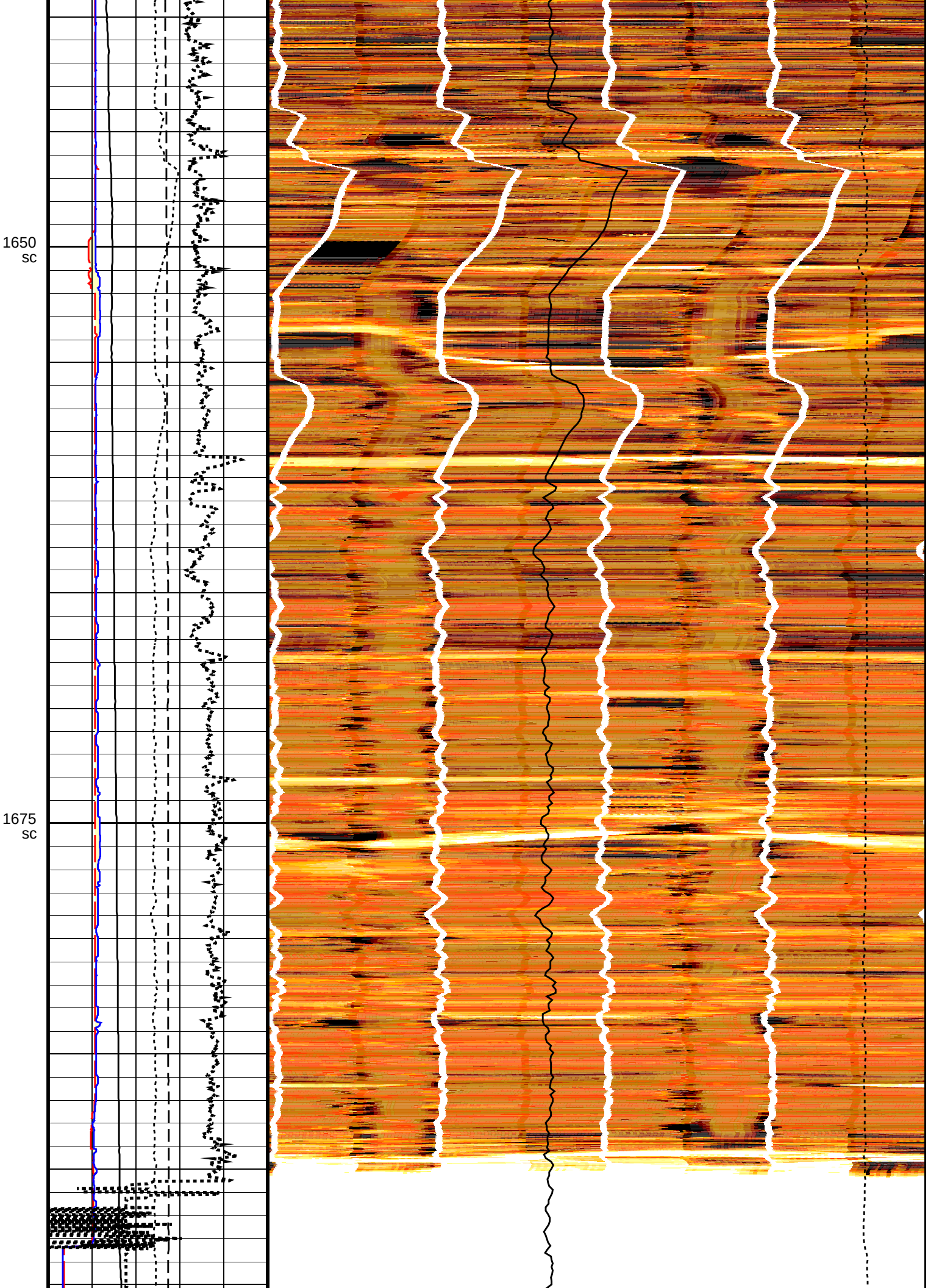
FMI Correlation Resistance (LOG) (FBCR)	2 (KOHM)	2000
Pad One Azimuth (P1AZ_ FBST)	−40 (DEG)	360
Hole Azimuth (HAZIM)	−40 (DEG)	360
Deviation (DEVIM)	0 (DEG)	10
Tension (TENS)	10000 (LBF)	0
Caliper 2 (C2)	4 (IN)	14

100.0000 123.3330 146.6670 170.0000 193.3330 216.6670 240.0000 263.3330 286.6670 310.0000 333.3330 356.6670 380.0000 403.3330 426.6670 450.0000

FBST/PADA (FBAA_P)
(−−−−)


Caliper 1 (C1)
4
(IN)
14
Image Orientation (P1AZ_FBST)
0
(DEG)
360
1550
SC
1575
SC


1600
sc
P1AZ_FBST
HAZIM
FBCR
DEVIM
C2
C1
1625
sc
TENS
P1AZ_FBST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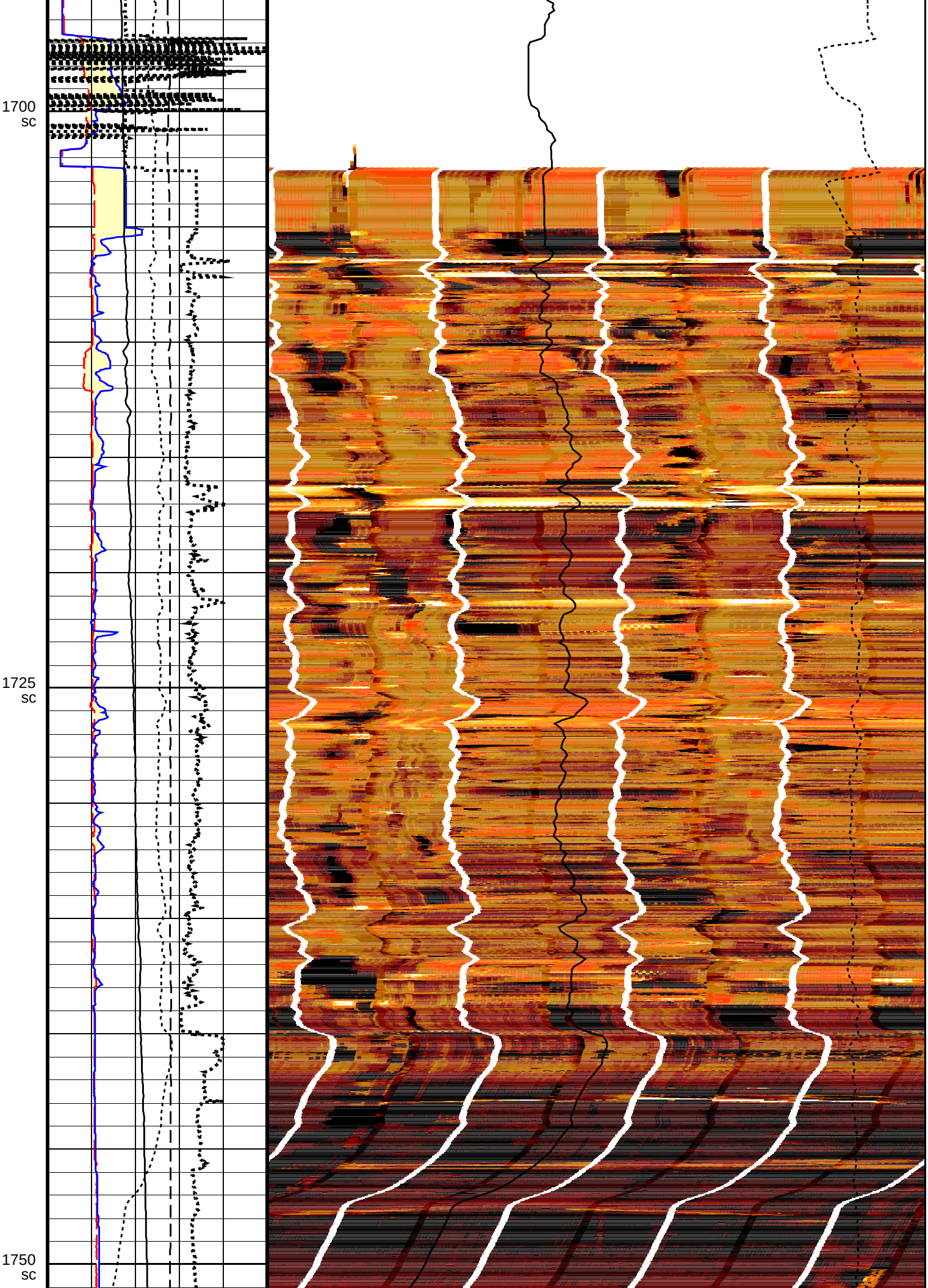
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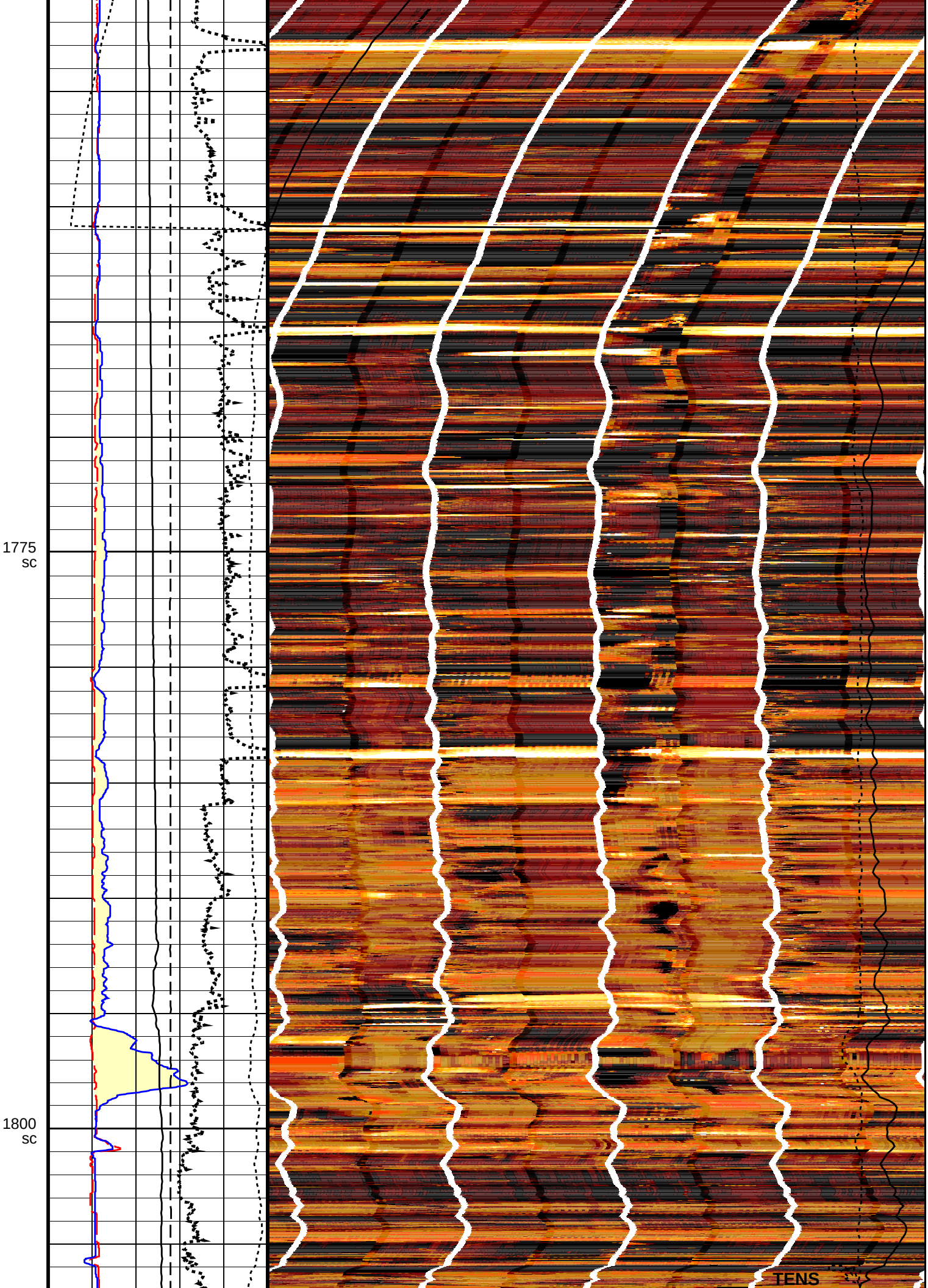
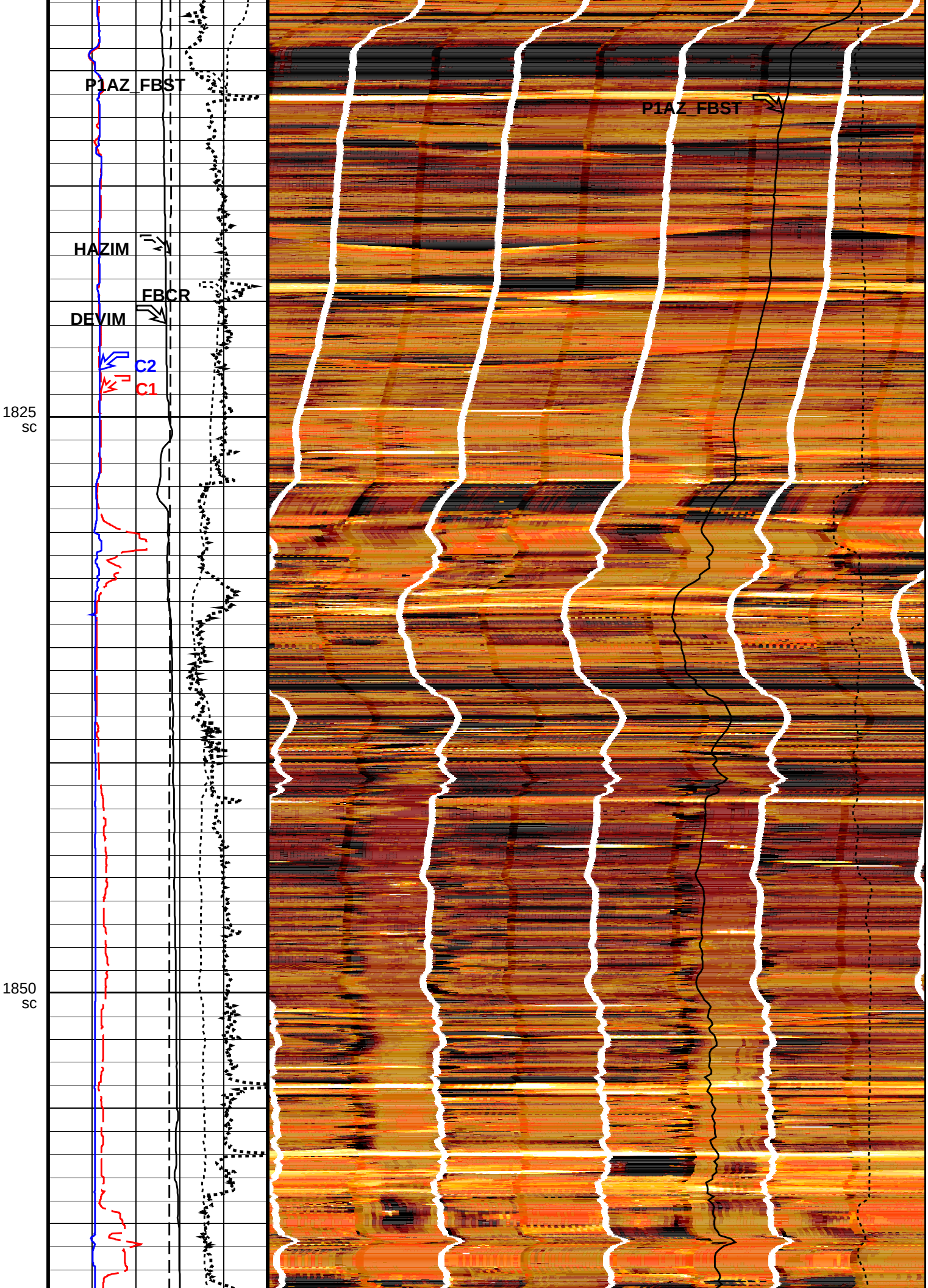
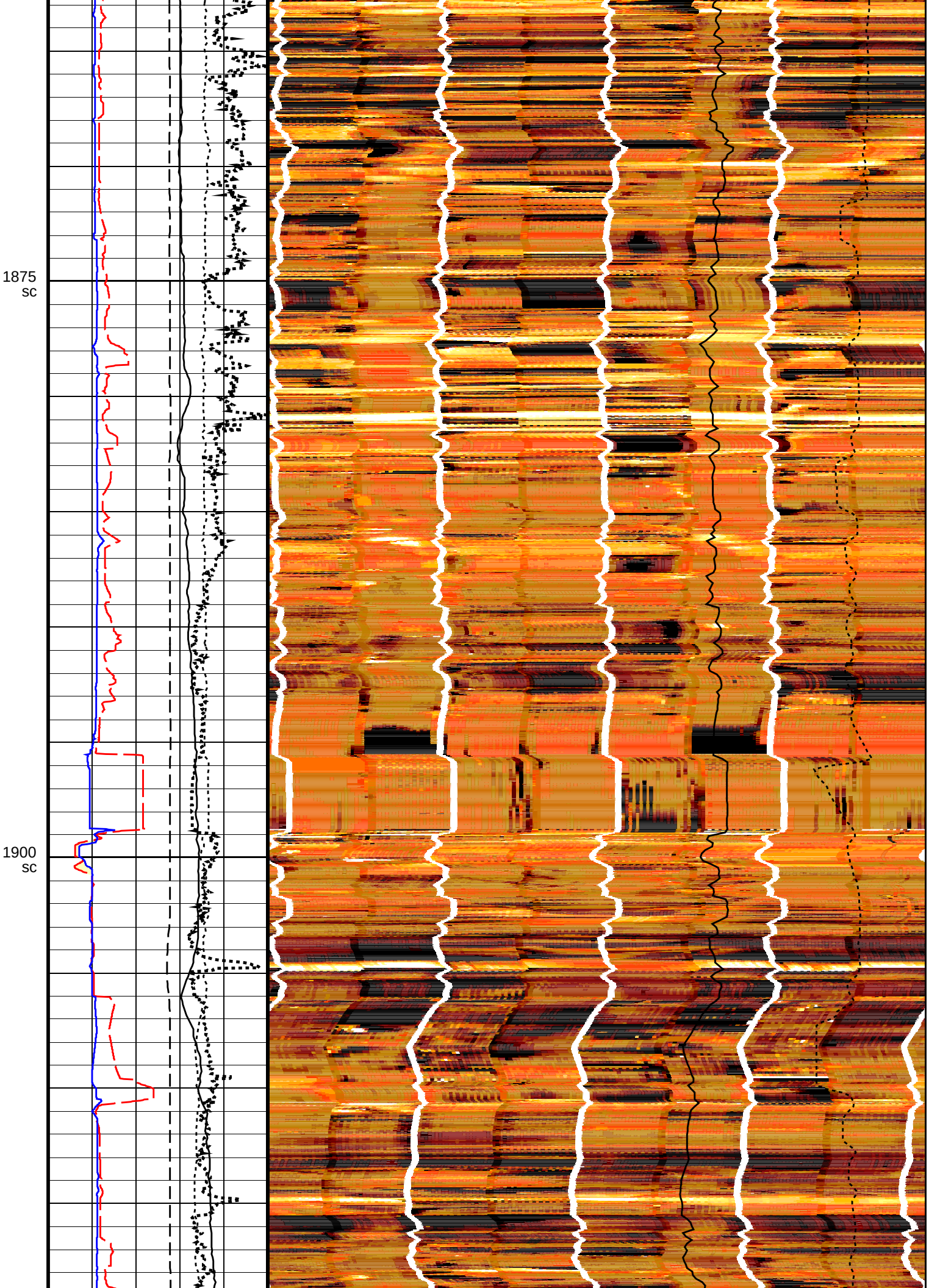
sc
1725
sc
1750
sc


1775
SC
1800
SC
TENS


P1AZ_FBST
HAZIM
FBCR
DEVIM
C2
C1
1825
SC
1850
SC
P1AZ_FBST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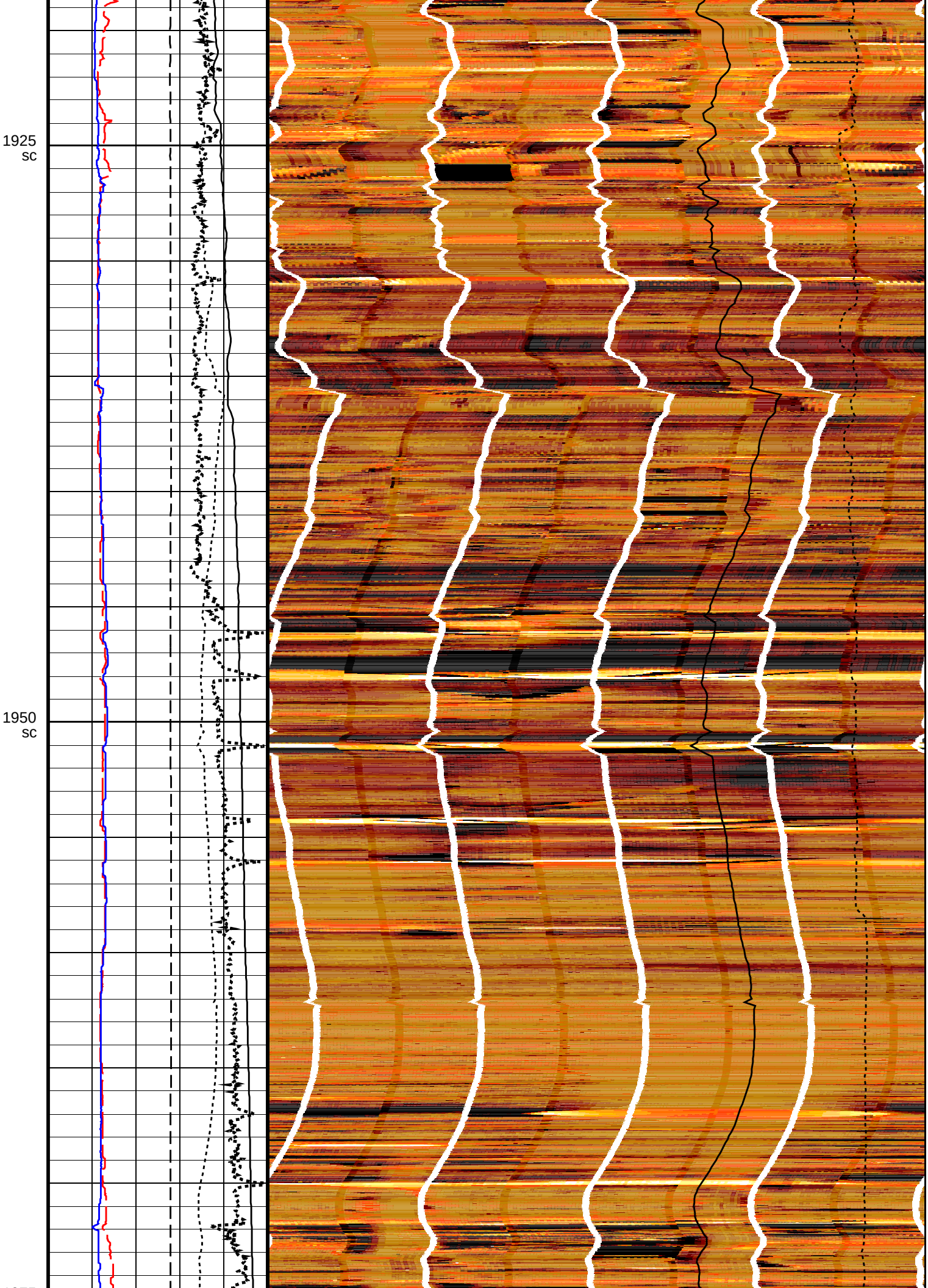
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1950
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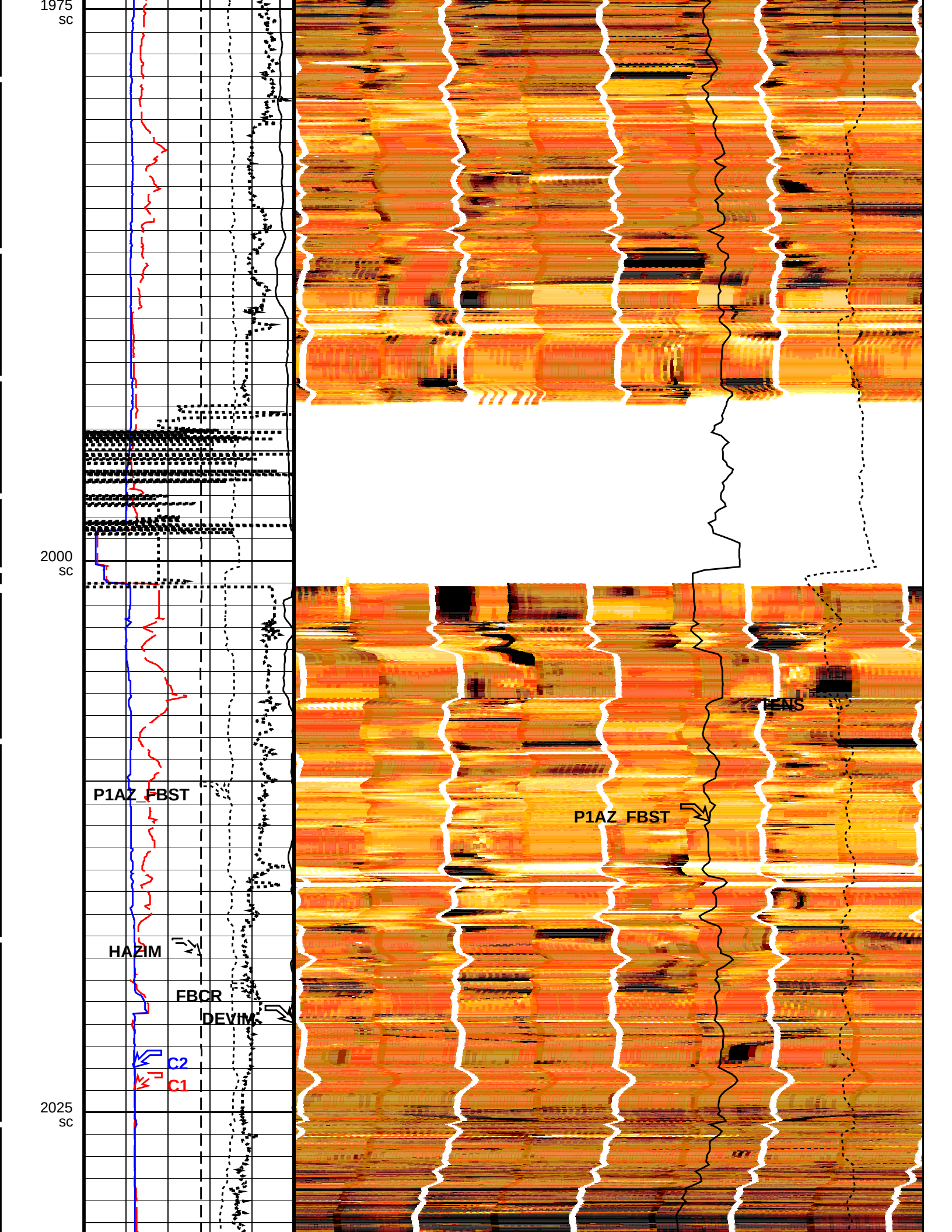
1975
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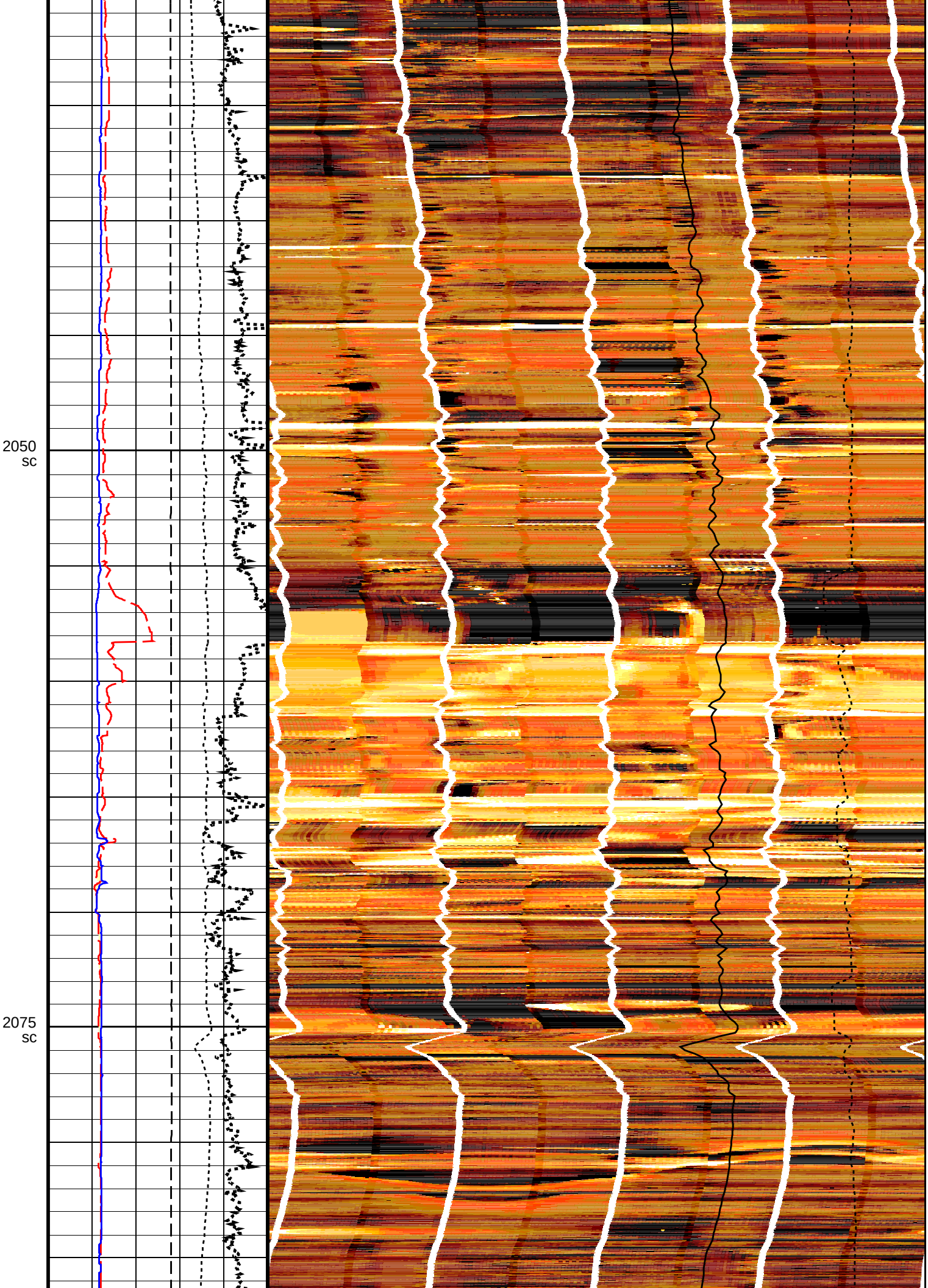
2000
sc
2025
sc
P1AZ_FBST
HAZIM
FBCR
DEVIM
C2
C1
LENS
P1AZ_FBST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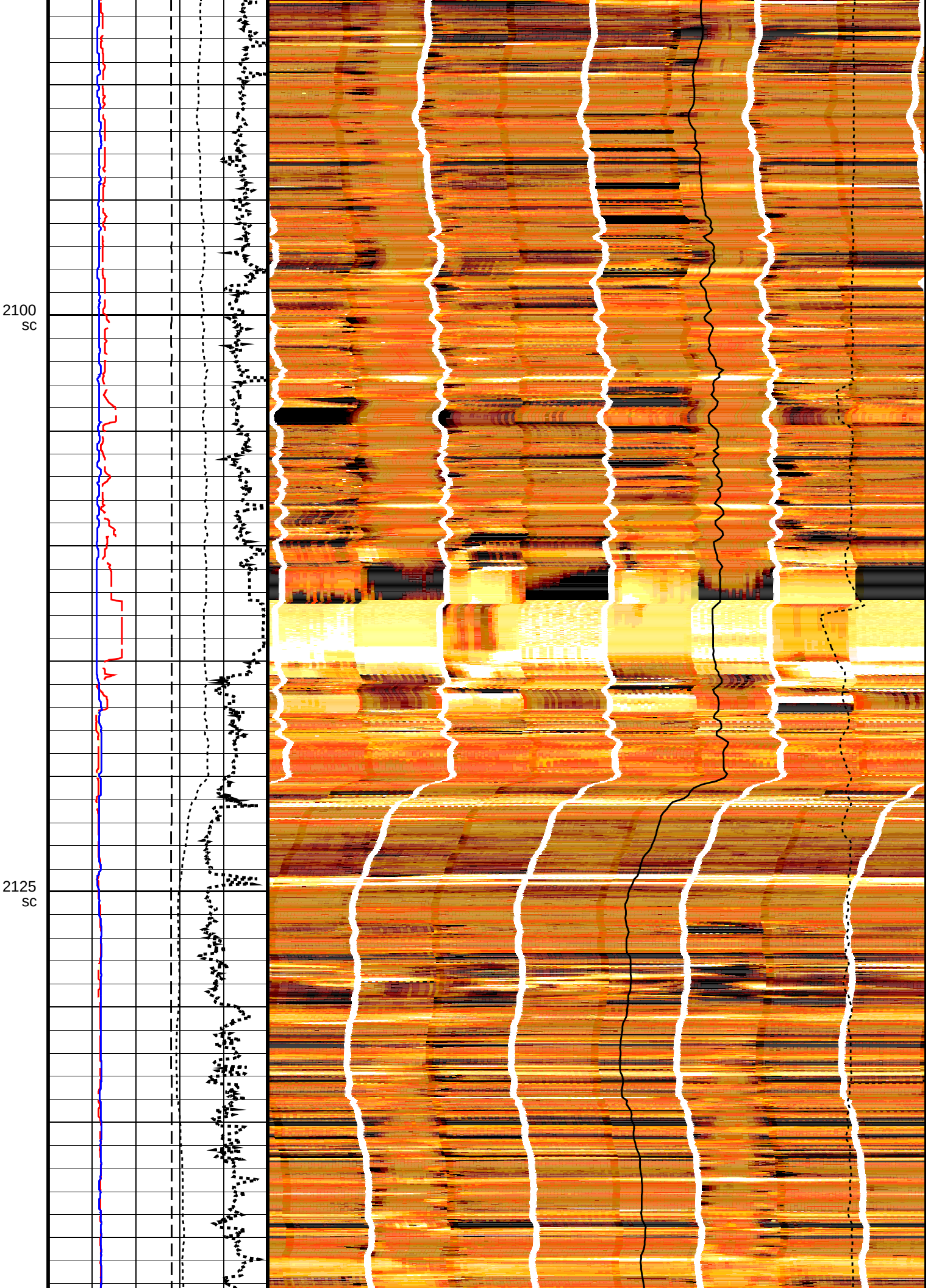
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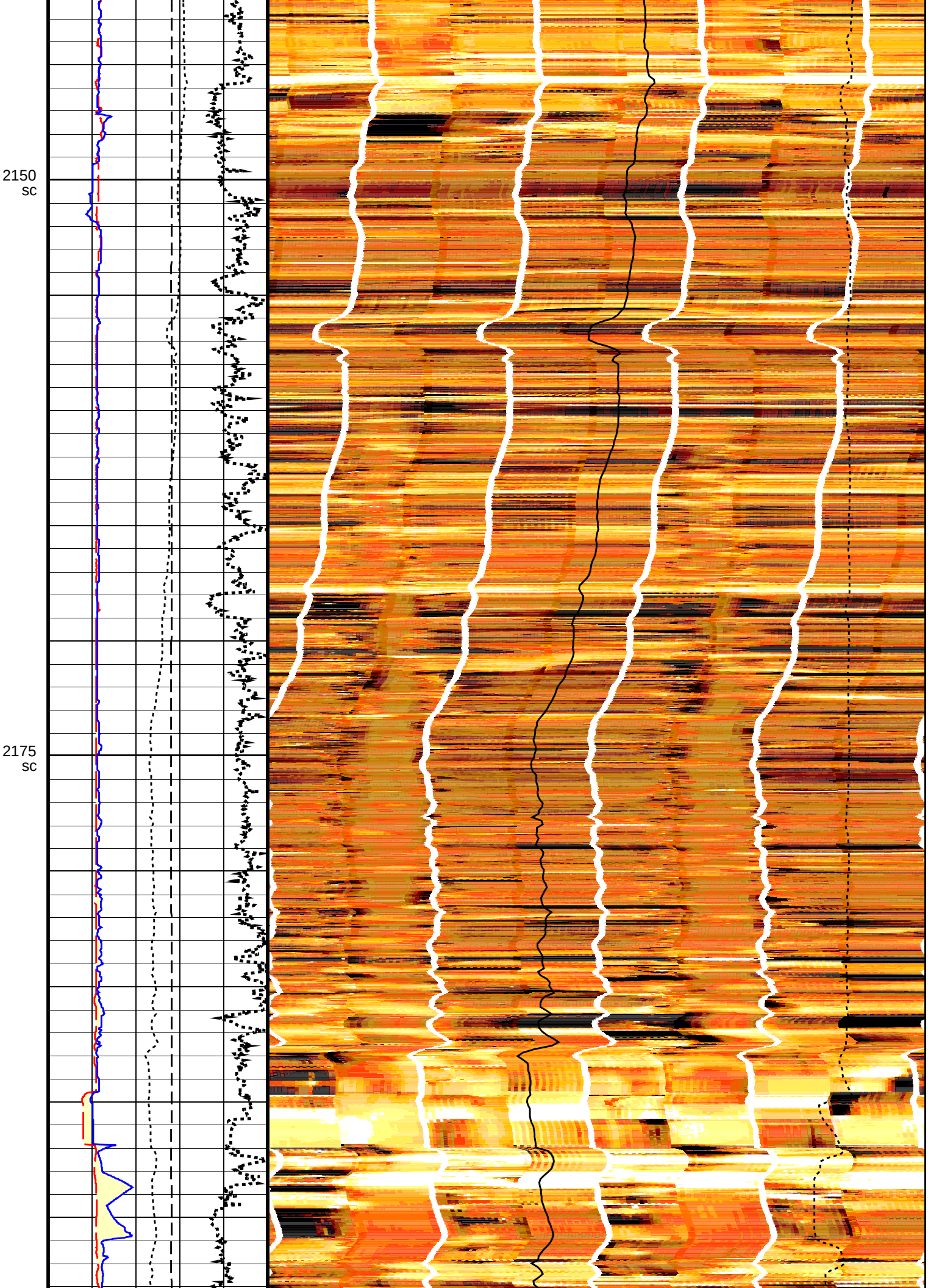
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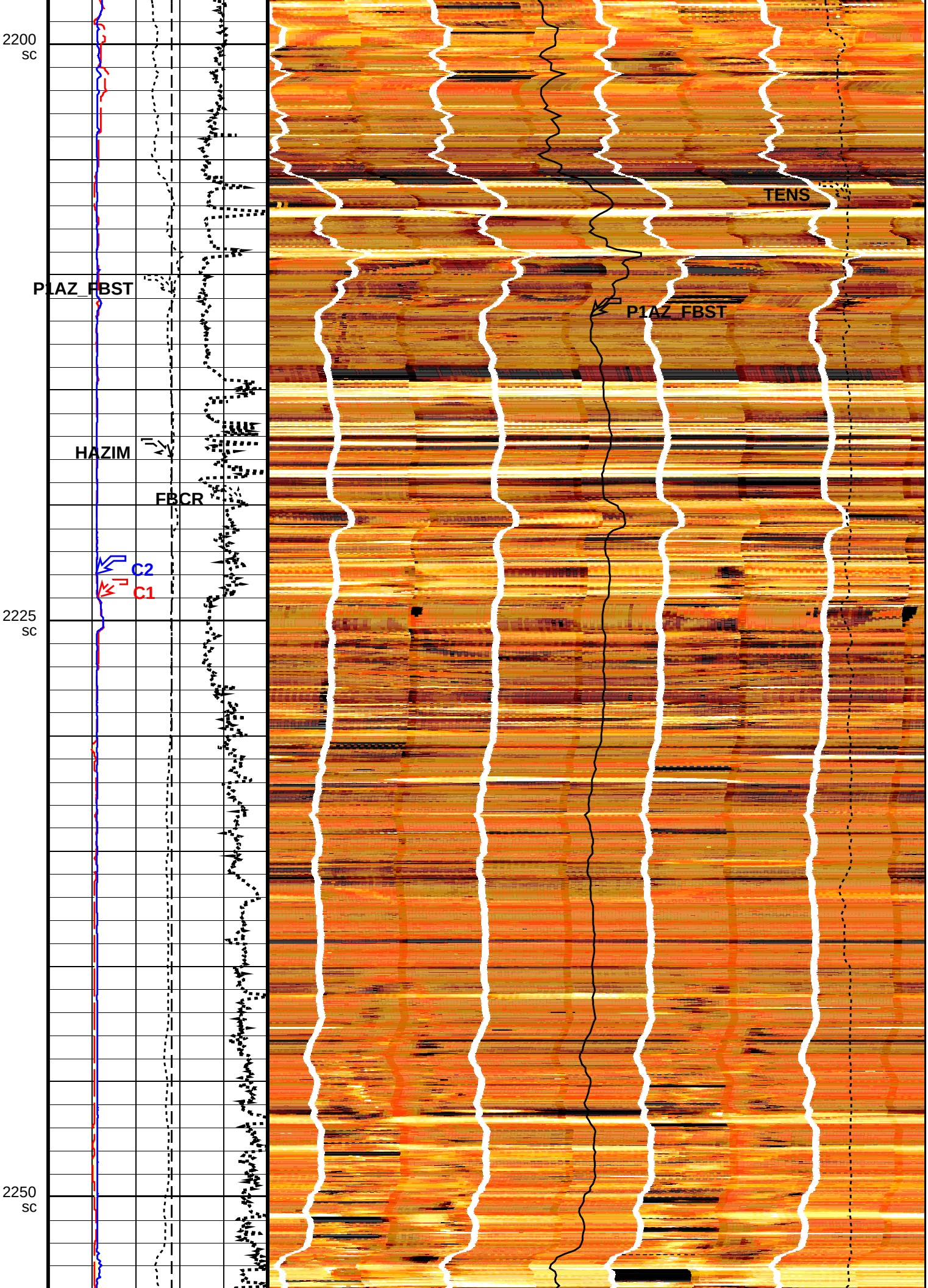
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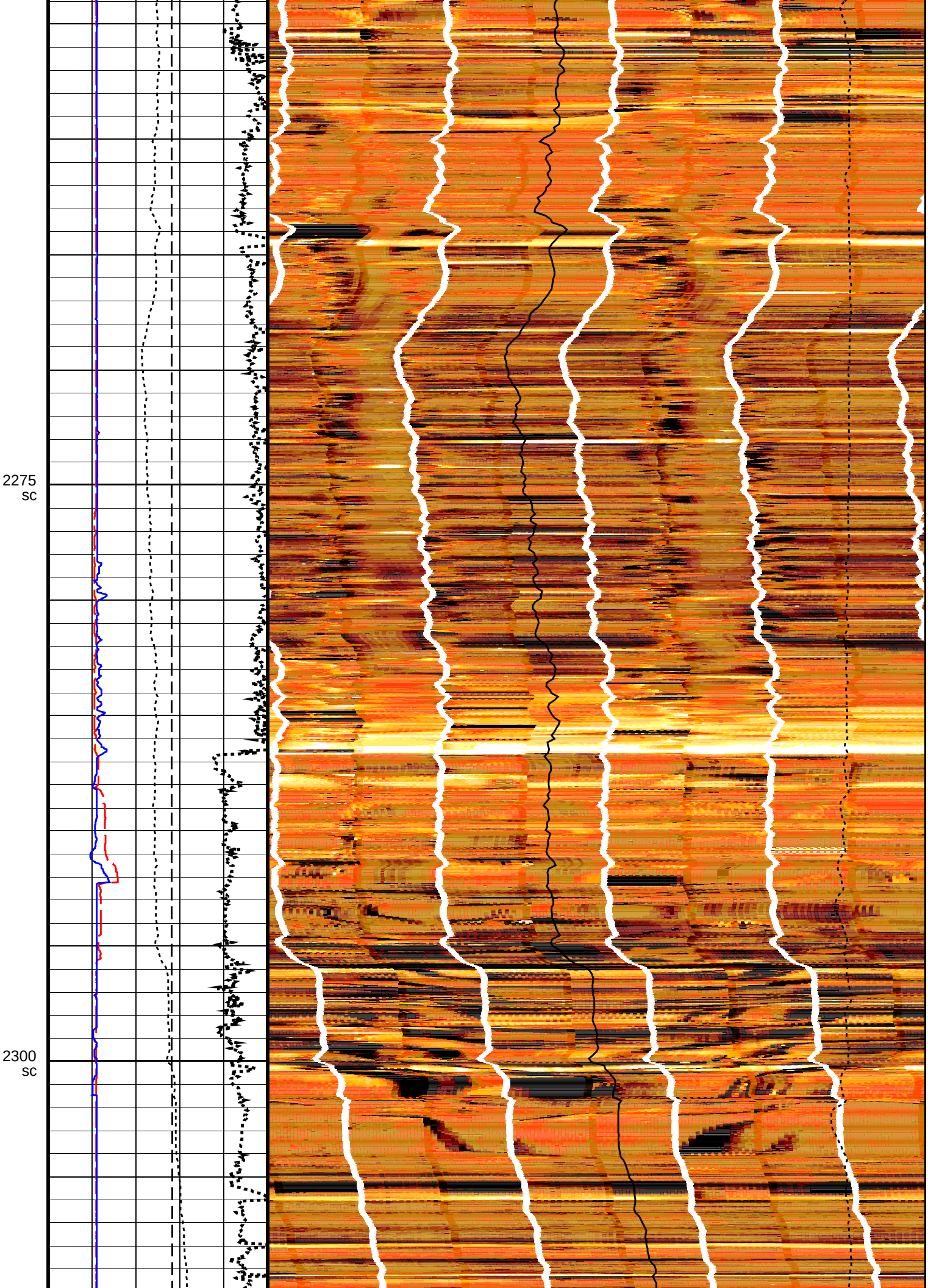
SC
P1AZ_FBST
HAZIM
FBCR
C2
C1
2225
SC
2250
SC
TENS
P1AZ_FBST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2300
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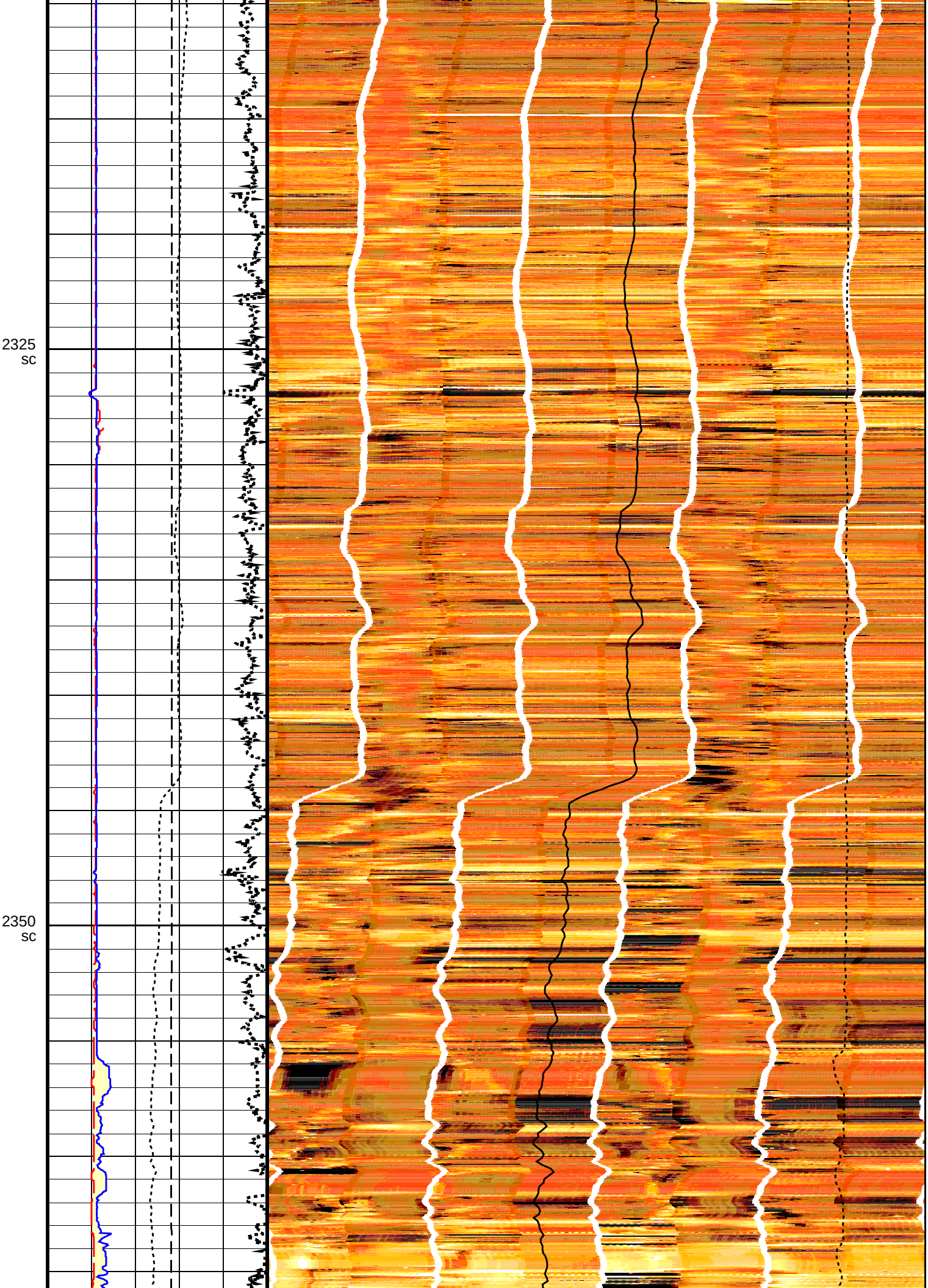
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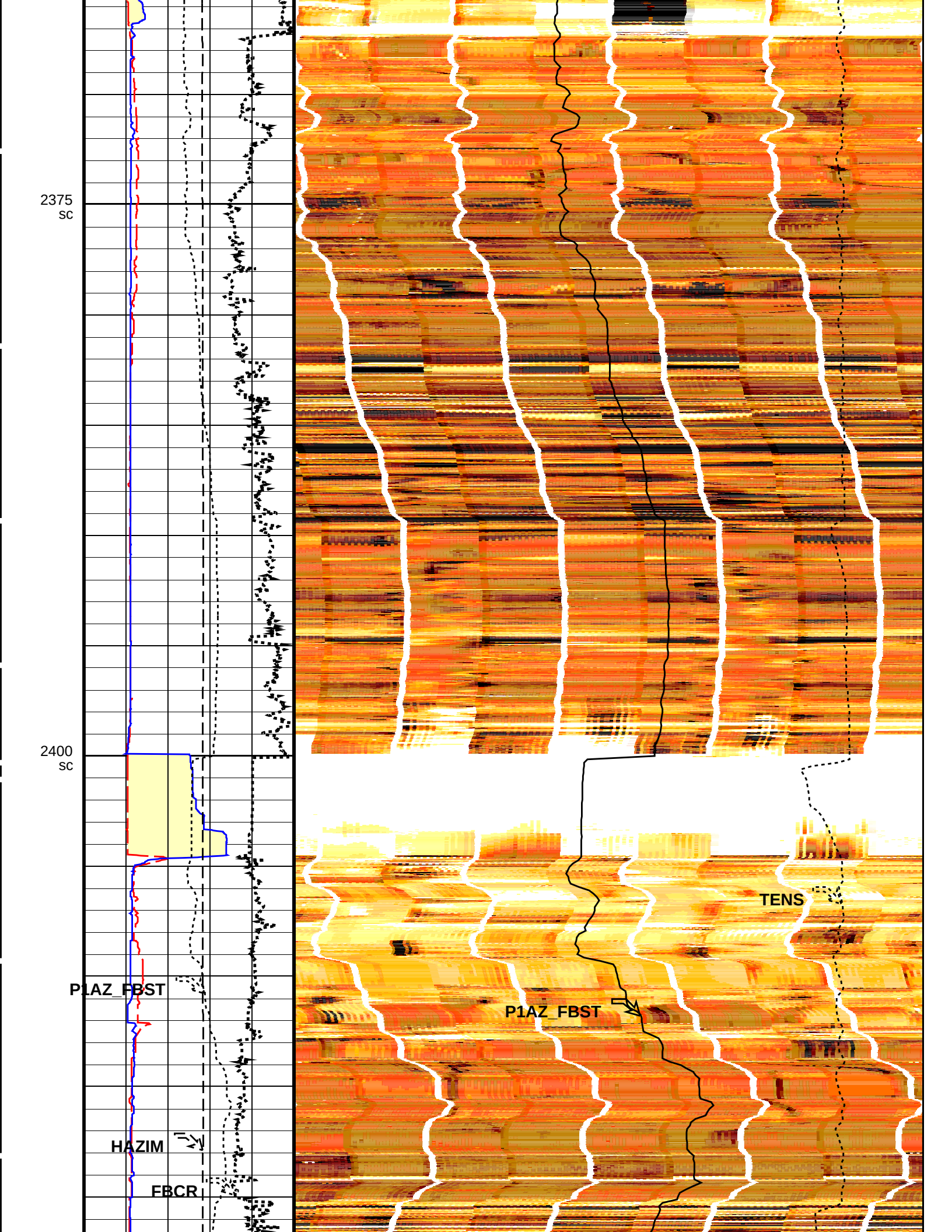
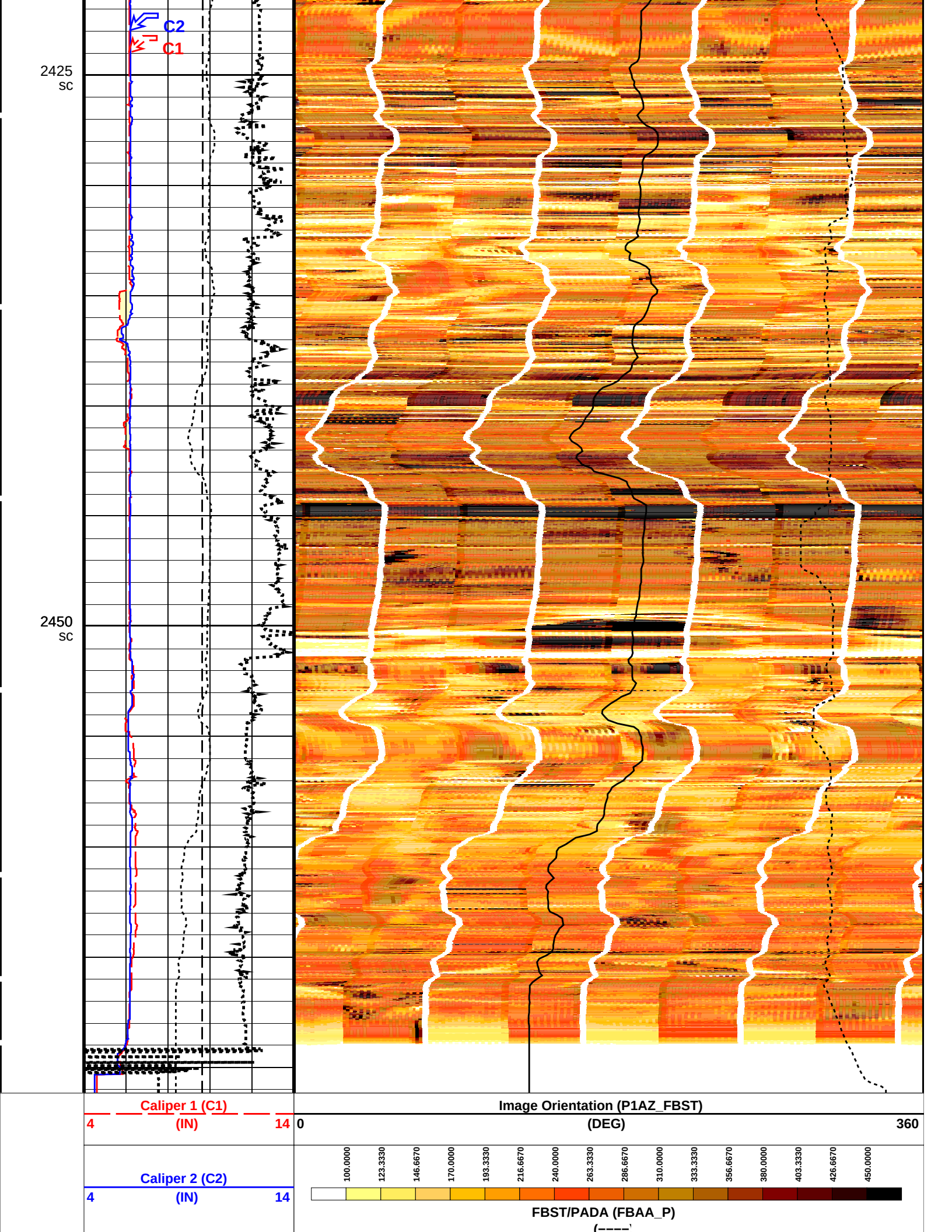
2350
sc


2375
sc
2400
sc
P1AZ_FBST
HAZIM
FBCR
TENS
P1AZ_FBST


C2
C1
2425
SC
2450
SC
Caliper 1 (C1)
4
(IN)
14
Caliper 2 (C2)
4
(IN)
14
Image Orientation (P1AZ_FBST)
0
(DEG)
360
100.0000
123.3330
146.6670
170.0000
193.3330
216.6670
240.0000
263.3330
286.6670
310.0000
333.3330
356.6670
380.0000
403.3330
426.6670
450.0000
FBST/PADA (FBAA_P)

Deviation (DEVIM)		
0	(DEG)	10

Tension (TENS)		
10000	(LBF)	0

Hole Azimuth (HAZIM)		
−40	(DEG)	360

Pad One Azimuth (P1AZ_FBST)		
−40	(DEG)	360

FMI Correlation Resistance (LOG) (FBCR)		
2	(KOHM)	2000

PIP SUMMARY

Time Mark Every 60 S

FMI Image Equalised , Patched.

Resistive (White) to Conductive (Black)

Format: FMI_BS_WRAP_BY_P1AZ_200 Vertical Scale: 1:200 Graphics File Created: 16−Nov−2009 11:39

OP System Version: 17C0−154

FBST−B	17C0−154	PPC1−B	17C0−154
BSP	17C0−154	EDTC−B	SKK−3882−EDTCB

Parameters

DLIS Name	Description	Value	
FBST−B: Full−Bore Scanner − B			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
BOOTVN	Downhole Firmware Version	1.0	
EGCO	FMI EMEX and GAIN Correction	NO	
FBCD	Correct Dip Buttons Values by EMEX and Gain	OFF	
FBEF	FMI EMEX filtering activation	OFF	
FBMV	FMI EMEX maximum voltage calculation	OFF	
FDBD	FMI Dead Buttons detection	AUTO	
FDBP	FMI Dead Buttons Patching	ON	
FDFL	FMI DSP Filter Length	1	
FIEQ	FMI Image Equalisation	ON	
FIGA	FMI Image Gain	1	
FIOF	FMI Image Offset	0	
FLM	FMI Logging Mode	8PAD	
FPCO	FMI Target Phase to Compensate	0	DEG
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON	
FWVN	Downhole Firmware Version	1.0	
GMOD	Gain Mode	MANU	
GPITF_LOGGING_SPEED	Max Logging Speed	3600_FPH	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.6725	DEG
RBS	Resistivity Button Selection	AUTO	
RBSI	Auto RBS Change Interval	10	
SOFF	Standoff	0.975	IN
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
PPC1−B: Powered Positioning Device/Caliper 1			
	PPC1 Caliper Type	CAL_STD	
CLBD_PPC	PPC Calibration data selection	ROM	
PWEL_PPC	PPC Primary Tool for WellCAD	NONE	
SWEL_PPC	PPC Secondary Tool for WellCAD (45 Degrees Rotation PPC Tool)	NONE	
WRDR_PPC	PPC Rotation Direction for Secondary Tool	NONE	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
EDTC−B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	85	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	−50000	PPM

FSAL	Formation Salinity	30000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	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	YES	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
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	
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	6.125	IN
BSAL	Borehole Salinity	28000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	29.00	LB/F
DFD	Drilling Fluid Density	9.90	LB/G
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	29.70	DEGC
PBVSADP	Use alternate depth channel for playback	YES	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.2070	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	2493.5	M
TDD	Total Depth − Driller	2500.00	M
TDL	Total Depth − Logger	2493.50	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Speed Corrected Depth Log

Input DLIS Files

FMI_CAL_MAXS_MAPC_027PUP	FN:24	16−Nov−2009 11:01	2471.0 M	1528.1 M

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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: 6−Nov−2009 20:27							
Caliper 1 Small Jig	8.000	N/A	7.912	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	7.630	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	11.67	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	11.42	N/A	N/A	N/A	IN
Powered Positioning Device/Caliper 1 Master Calibration − PPC1 LVDT5 Master Calibration							
Master: Calibration not done							
LVDT5 Full Close Position	−1.510	N/A	−−	−−	−−	−−	IN
LVDT5 Powered 4 Position	1.410	N/A	−−	−−	−−	−−	IN

LVDT5 Full Open Position	−1.310	N/A	−−	−−	−−	−−	IN

Multimode Array Sonic Power Cartridge Master Calibration − SSCF Sensor Sensitivity Correction Factor
Master: 16−Oct−2009 9:25

SSCF Minimum	1.000	0.9234	−−	−−	−−	−−	−−−
SSCF Maximum	1.000	1.124	−−	−−	−−	−−	−−−

Multimode Array Sonic Power Cartridge Master Calibration − SSCR Sensor Sensitivity Correction Factor LF to HF Ratio
Master: 16−Oct−2009 9:25

SSCR Minimum	1.000	0.9249	−−	−−	−−	−−	−−−
SSCR Maximum	1.000	1.049	−−	−−	−−	−−	−−−

Multimode Array Sonic Power Cartridge Master Calibration − STDF Sensor Time Delay Factor
Master: 16−Oct−2009 9:25

STDF Minimum	0	−0.6627	−−	−−	−−	−−	US
STDF Maximum	0	0.7072	−−	−−	−−	−−	US

Full−Bore Scanner − B / Equipment Identification

Primary Equipment:

FullBore Scanner Sonde	FBSS − B	1812
FullBore Scanner Sonde Upper part	FBSH − A	1803
GPIT Cartridge − F	GPIC − F	832
FullBore Scanner Sonde Cartridge	FBSC − B	1809
Insulating Sub	AH − 185	1918
Flex Joint	AH − 184	
FullBore Scanner Control Cartridge	FBCC − A	1823

Auxiliary Equipment:

Electronics Cartridge Housing	ECH − MRA	6807

Full−Bore Scanner − B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.912	Before		7.630
6.800 (Minimum)	8.000 (Nominal)	9.200 (Maximum)	6.800 (Minimum)	8.000 (Nominal)	9.200 (Maximum)

Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before		11.67	Before		11.42
10.20 (Minimum)	12.00 (Nominal)	13.80 (Maximum)	10.20 (Minimum)	12.00 (Nominal)	13.80 (Maximum)

Before: 6−Nov−2009 20:27

Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper	PPC1 − B	8332
PPC1 Caliper Standard	PPC_ −	8332

Auxiliary Equipment:

Powered Positioning Device/Caliper 1 Master Calibration

PPC1 LVDT5 Master Calibration

Phase	LVDT5 Full Close Position IN	Value	Phase	LVDT5 Full Open Position IN	Value	Phase	LVDT5 Powered 4 Position IN	Value
Master	NOT DONE	N/A	Master	NOT DONE	N/A	Master	NOT DONE	N/A
−1.710 (Minimum)	−1.510 (Nominal)	−1.310 (Maximum)	−1.550 (Minimum)	−1.310 (Nominal)	−1.070 (Maximum)	1.200 (Minimum)	1.410 (Nominal)	1.610 (Maximum)

Master: Calibration not done

Multimode Array Sonic Power Cartridge / Equipment Identification

Primary Equipment:

Multimode Array Sonic Minimum Service So	MAMS − BA	8073
Multimode Array Sonic Control Cartridge	MAPC − BA	8071

Auxiliary Equipment:

Electronics Cartridge Housing	ECH − SF	8071

Multimode Array Sonic Power Cartridge Master Calibration					
SSCF Sensor Sensitivity Correction Factor					
Phase	SSCF Minimum ---	Value	Phase	SSCF Maximum ---	Value
Master		0.9234	Master		1.124
0.5000 (Minimum)	1.000 (Nominal) 1.700 (Maximum)		0.5000 (Minimum)	1.000 (Nominal) 1.700 (Maximum)	
Master: 16−Oct−2009 9:25					

Multimode Array Sonic Power Cartridge Master Calibration					
SSCR Sensor Sensitivity Correction Factor LF to HF Ratio					
Phase	SSCR Minimum ---	Value	Phase	SSCR Maximum ---	Value
Master		0.9249	Master		1.049
0.9000 (Minimum)	1.000 (Nominal) 1.700 (Maximum)		0.9000 (Minimum)	1.000 (Nominal) 1.700 (Maximum)	
Master: 16−Oct−2009 9:25					

Multimode Array Sonic Power Cartridge Master Calibration					
STDF Sensor Time Delay Factor					
Phase	STDF Minimum US	Value	Phase	STDF Maximum US	Value
Master		−0.6627	Master		0.7072
−2.000 (Minimum)	0 (Nominal) 2.000 (Maximum)		−2.000 (Minimum)	0 (Nominal) 2.000 (Maximum)	
Master: 16−Oct−2009 9:25					

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG − A/B	
Enhanced DTS Cartridge	EDTC − B	

Auxiliary Equipment:

EDTC Housing	EDTH − B	8665

Company: **Lakes Oil N.L.**

Schlumberger

Well: **Wombat−4**
Field: **Wombat**
Rig: **Hunt #2**
Country: **Australia**

FMI Image Log
Run 2 & 3
Scale: 1:200MD