

Sector Bond - Gamma Ray Log

Company: MISSISSIPPI POWER COMPANY				Other Services
Well:	MPC 34-1 #1			
Field:	WILDCAT			
County:	KEMPER			
State:	MS	Country:	USA	
Location:	148FNL & 164FEEL	API#: 23-069-20014-0000	SEC: 34 TWP: 9N RGE: 15E	Elevation: 460'
Permanent Datum:	GL	KB=12' APD		K.B. 472' D.F. 471' G.L. 460'
Log Measured From:	KB			
Drilling Measured From:	KB			
Date:	27/JUNE/2017			
Run Number	ONE			
Depth Driller	2500'			
Depth Logger	2341'			
Bottom Logged Interval	2334'			
Top Log Interval	2334'			
Open Hole Size	SURFACE			
Type Fluid	NA			
Density / Viscosity	MUD			
Max. Recorded Temp.	9.3#			
Estimated Cement Top	NOT LOGGED			
Well Head Connection	SEE LOG			
Fluid Level	OPEN HOLE			
Equipment Number	15'			
Recorded By	TU-04			
Witnessed By	LAUREL FREEMAN MR. DALE BARNETT			
Run Number	Bit	From	To	Size
				Weight
				From
				To
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	40#	SURFACE	T.D.
Production String				
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Rig: HAD DRILLING Shut-In Pressure: 0psi Service Order#

N/A Denotes Not Applicable or Not Available at Time of Log

LOG CORRELATED TO SCHLUMBERGER PLATFORM EXPRESS LOG DATED 25-JUNE-2017

CORRELATION DEPTH 400'

LOG WAS RUN 24hrs POST CEMENT JOB.

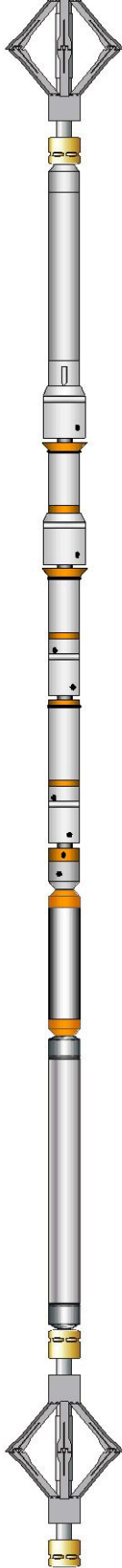
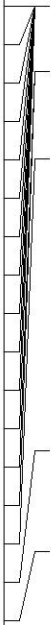
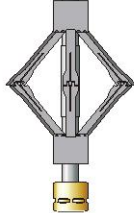
RUN RADIAL CEMENT BOND LOG IN 9 5/8" 40# CASING FROM 2341' TO SURFACE.

T.D. REACHED @ 2345'.

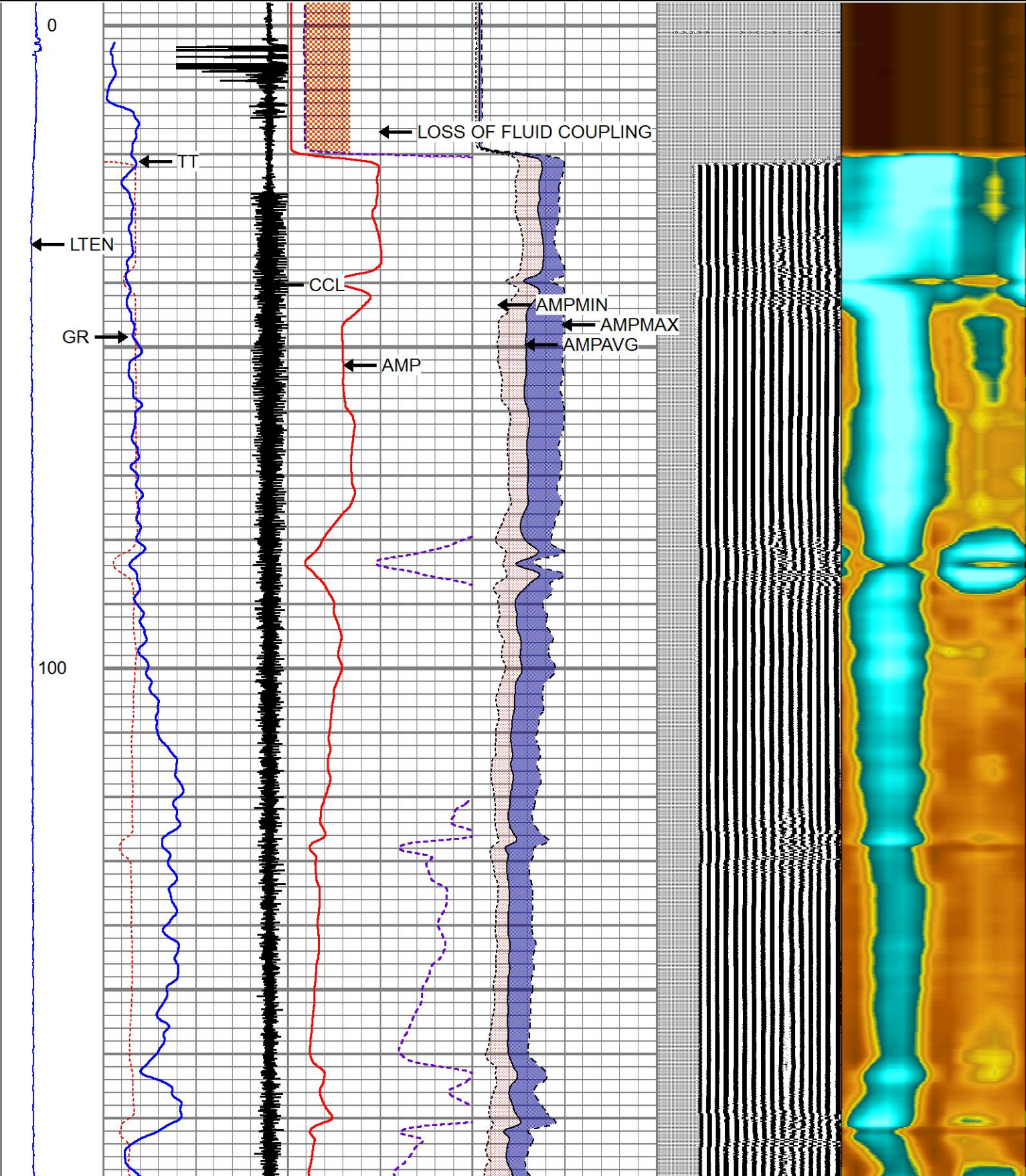
FREE PIPE = 51mvs
100% BOND = 1.8mvs
60% CUT-OFF = 6.8mvs

THANK YOU FOR USING CASED HOLE WELL SERVICES
CHWS CREW: C.FREEMAN / C.WELCH

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CableHead-STNDRD Standard Cable Head	1.00	1.44	10.00

			CENT-Titan2.75 Titan 2.75 Inline	2.98	2.75	20.00
WVFS12	6.23		SCBL-Tek12 (IMG20-01) 3 1/4 Tekco RIB 400 Deg 12 Sector Tool	9.13	3.25	135.00
WVFS11	6.23					
WVFS10	6.23					
WVFS9	6.23					
WVFS8	6.23					
WVFS7	6.23					
WVFS6	6.23					
WVFS5	6.23					
WVFS4	6.23					
WVFS3	6.23					
WVFS2	6.23					
WVFS1	6.23					
WVFCAL	5.48		CCLLOG-2.75CCL (IN6L2-03) 2 3/4 Tekco Logging CCL 450 Deg	1.83	2.75	33.00
WVF3FT	5.48					
WVF5FT	4.48					
WVFSYNC	1.15					
CCL	0.00					
GR	3.33		GR2.75-2.75GR (IPCD9-03) 2 3/4 Titan Scint Logging G-Ray 400 Deg.	3.68	2.75	47.00
			CENT-Titan2.75 Titan 2.75 Inline	2.98	2.75	20.00
Dataset: 62717_advancedresources_scbl-temp.db: field/well/run1/pass6 Total length: 21.60 ft Total weight: 265.00 lb O.D.: 3.25 in						

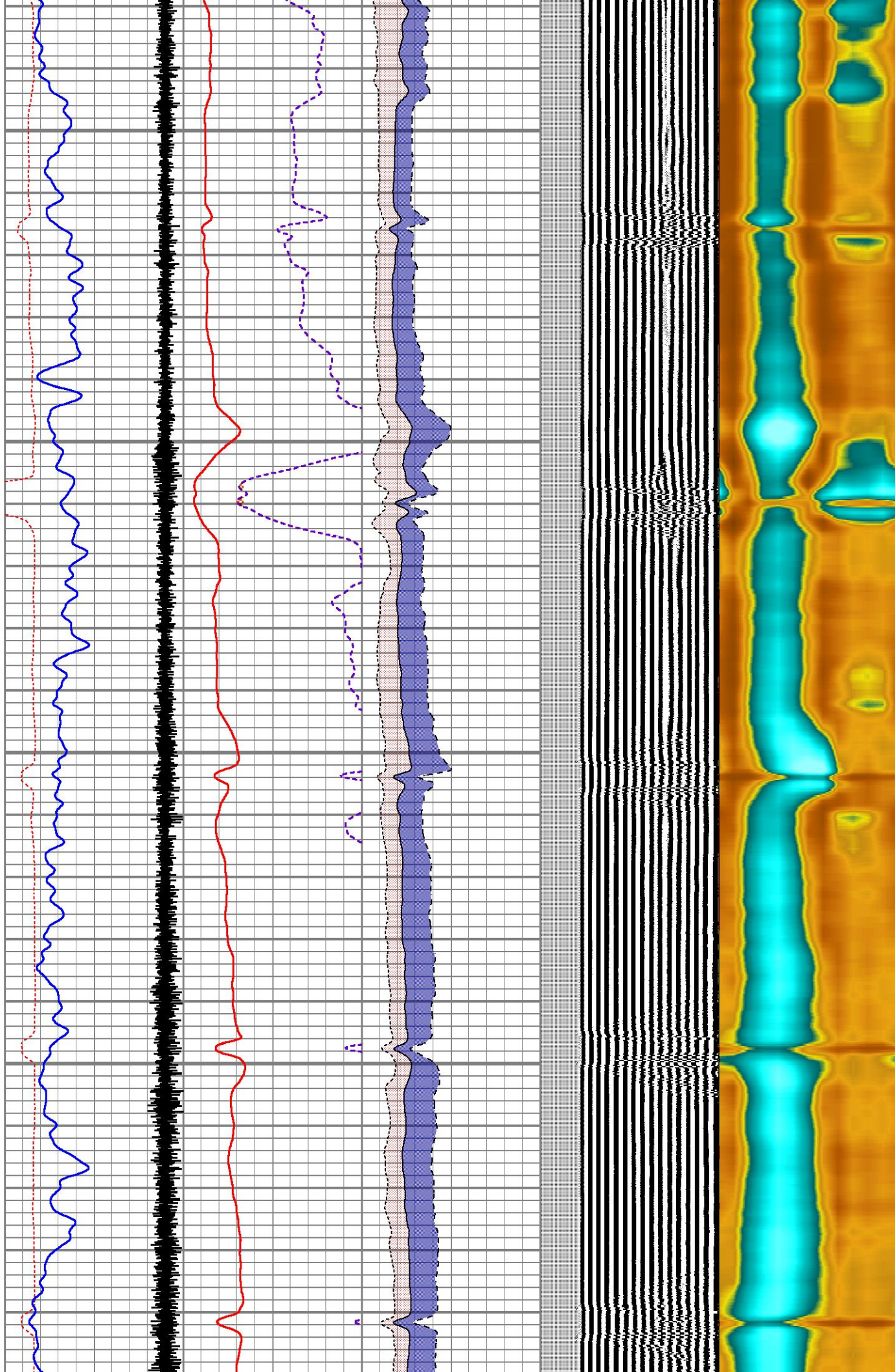
LTEN	330	TT	230	0	AMP (mV)	100	0	AMPAVG	200	200	VDL	1200	1	Cement Map	12
0	1000	-18	CCL	2	0	AMPx5	20	0	AMPMAX	200					
		0	GR	200				0	AMPMIN	200					

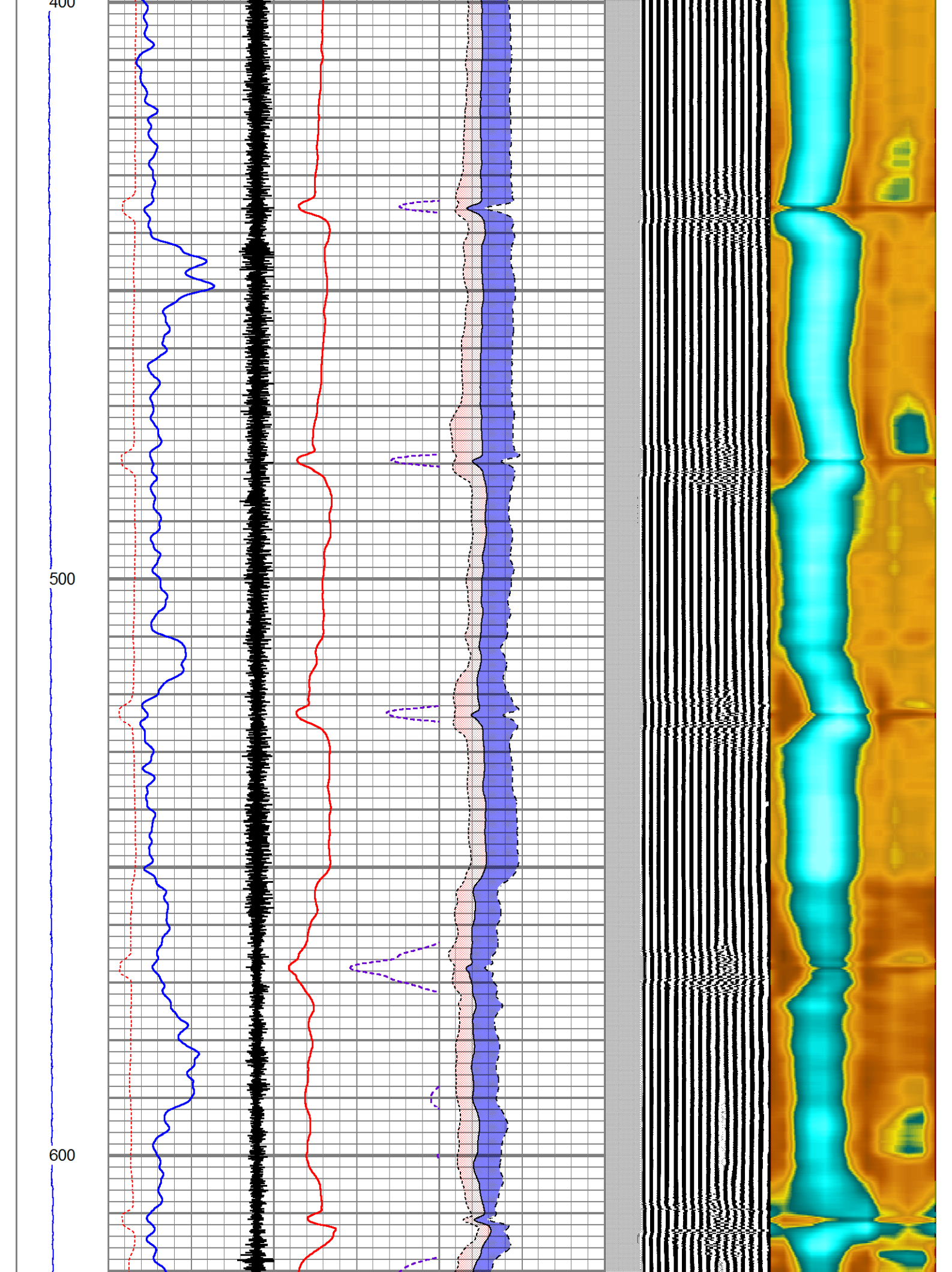


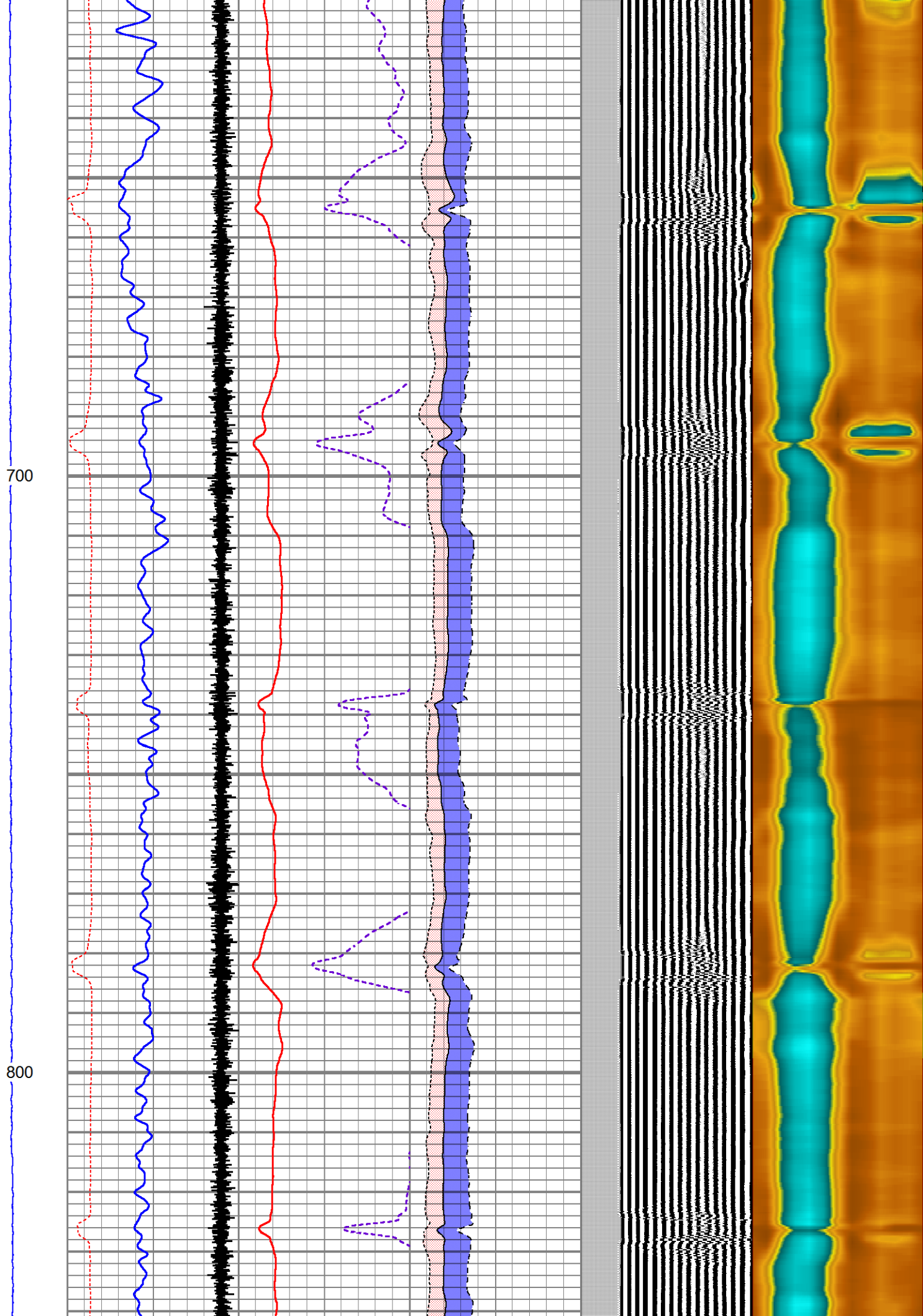
200

300

400

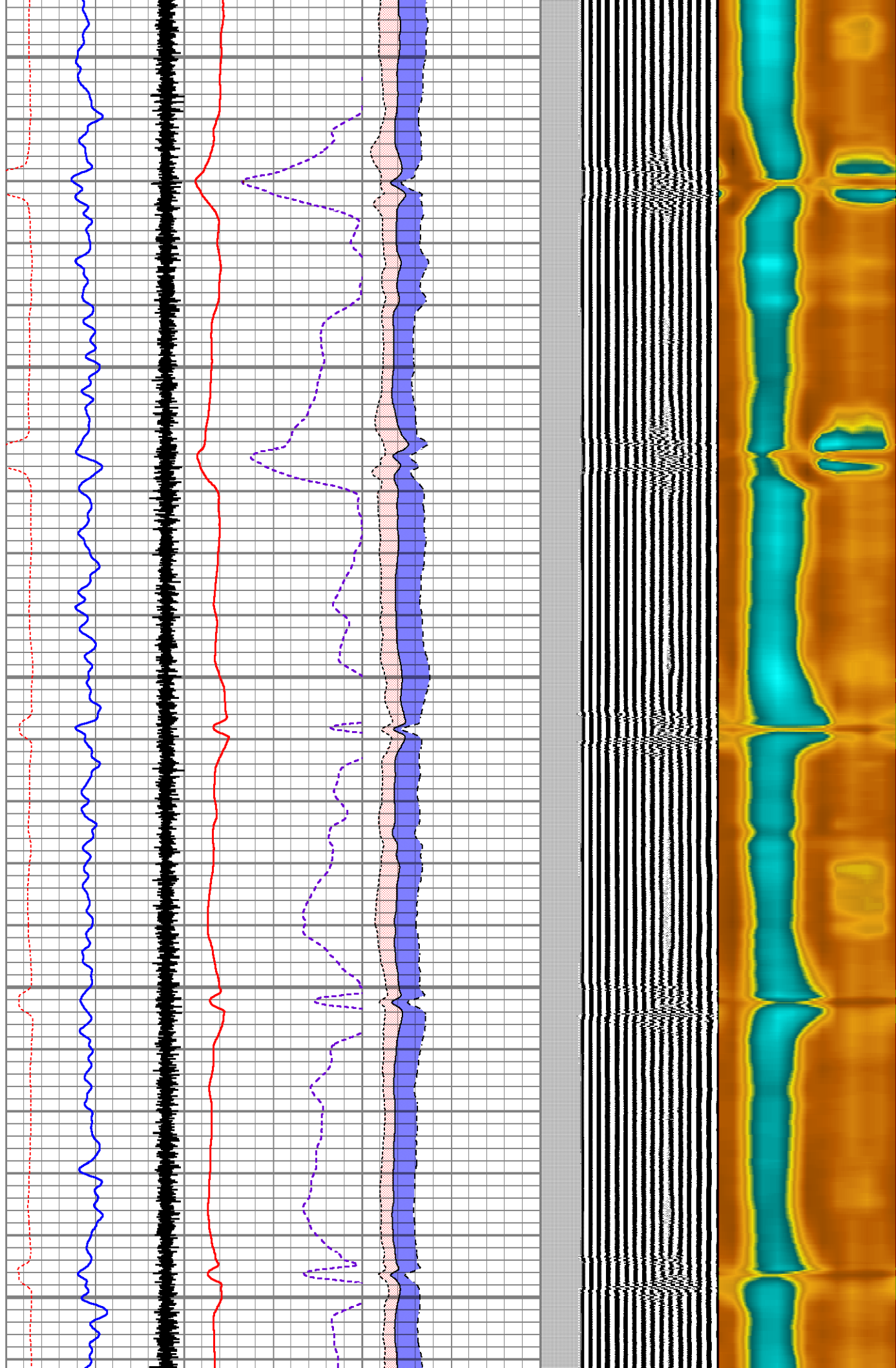


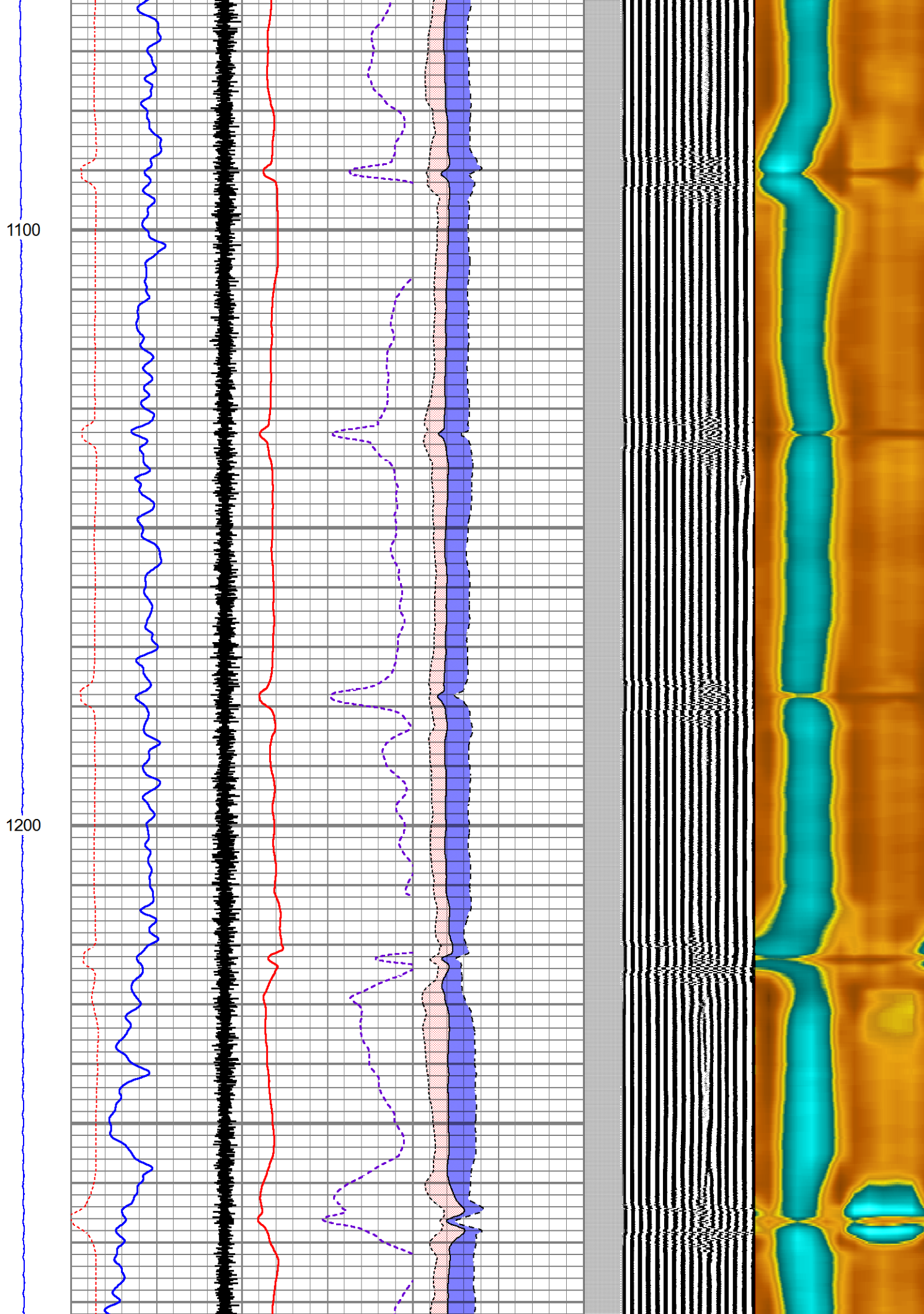




900

1000

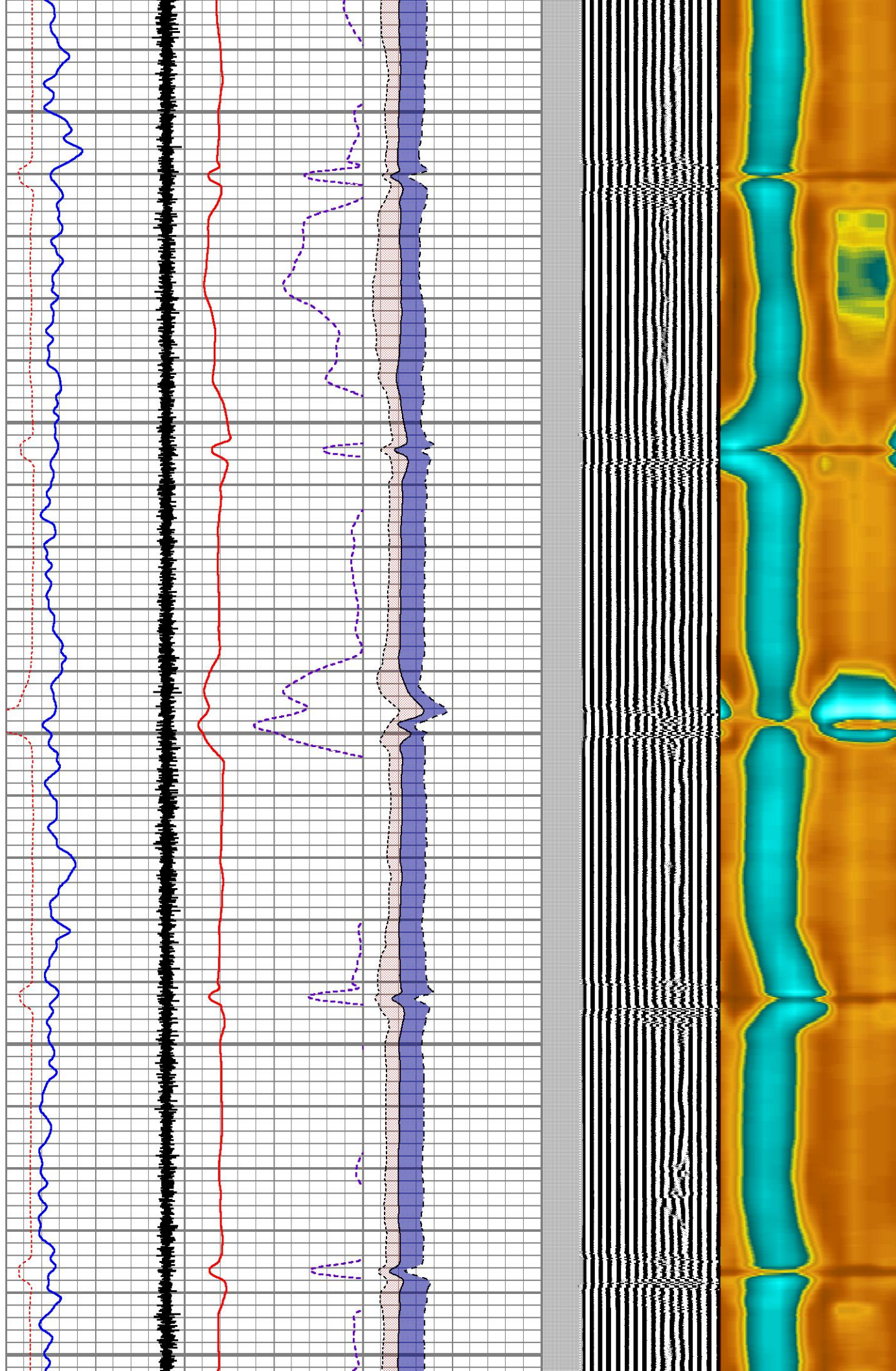




1300

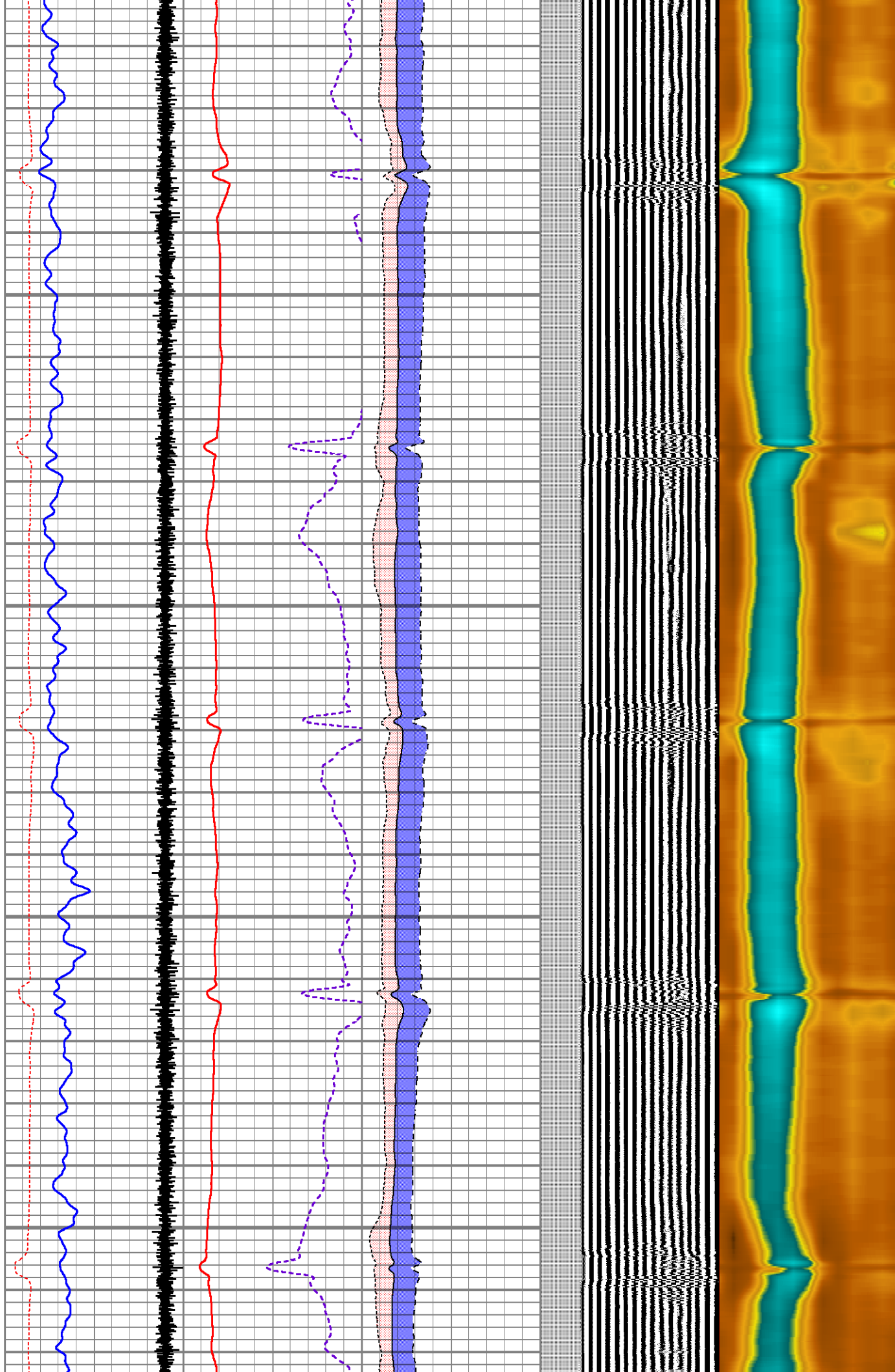
1400

1500



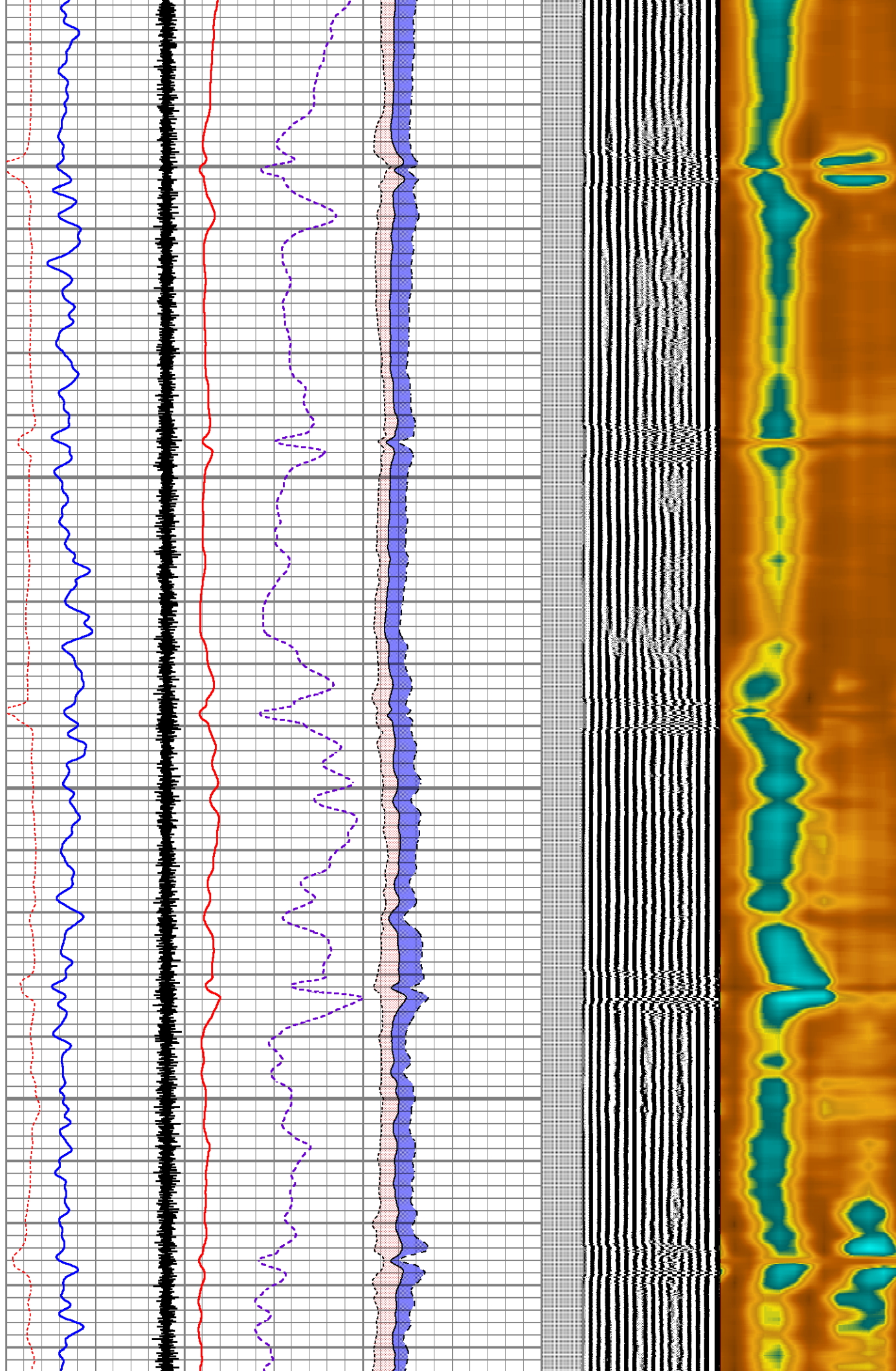
1600

1700



1800

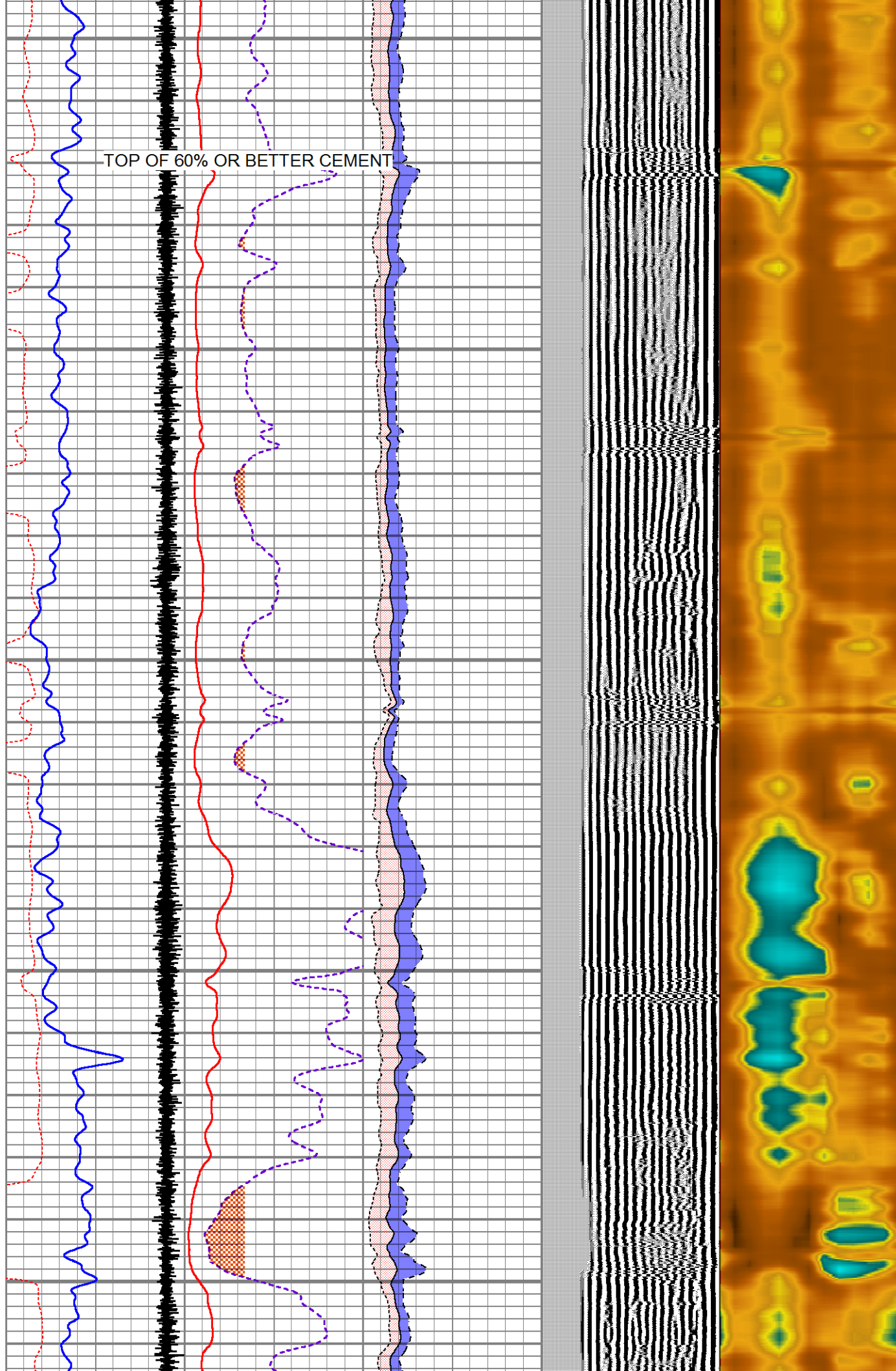
1900

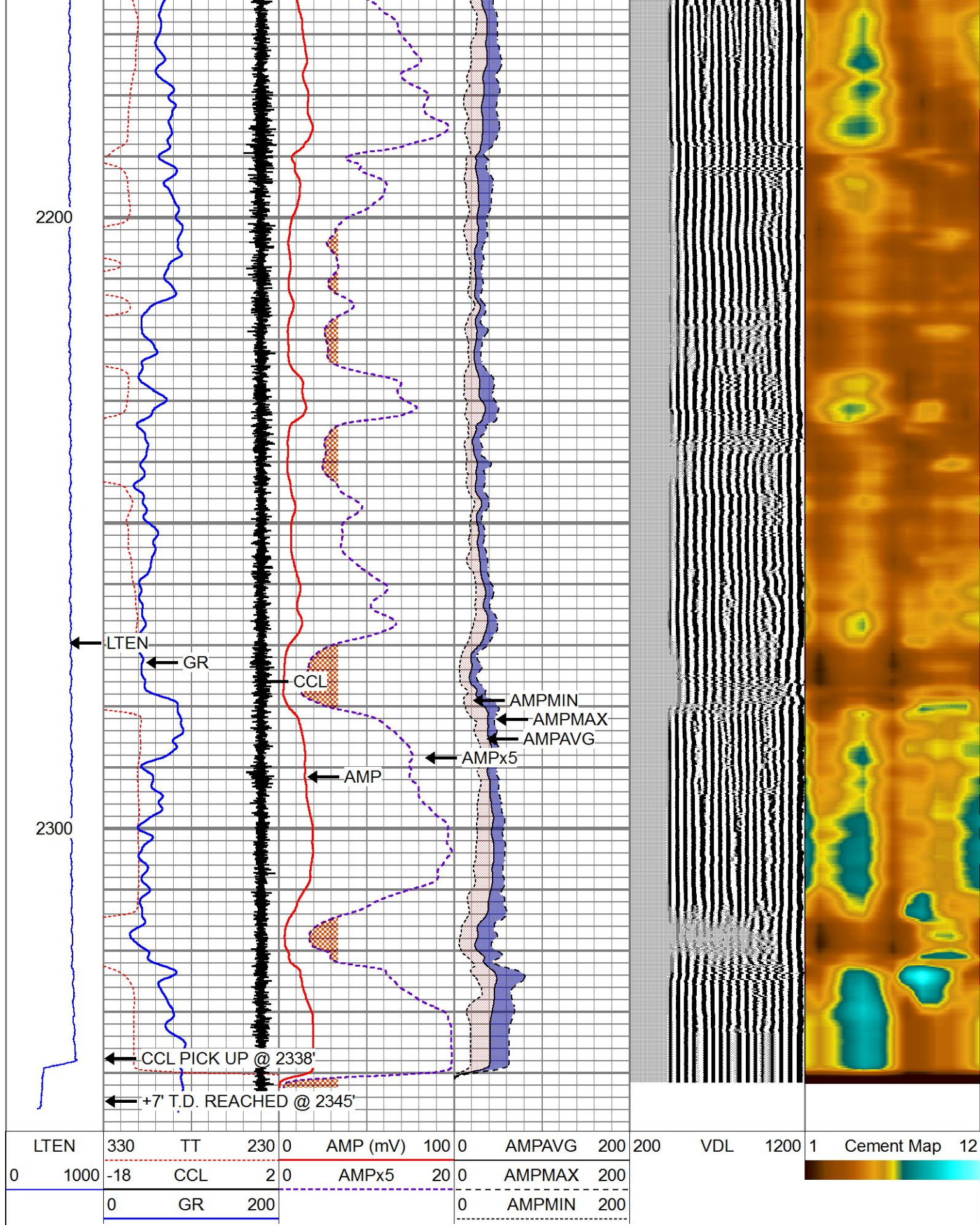


2000

2100

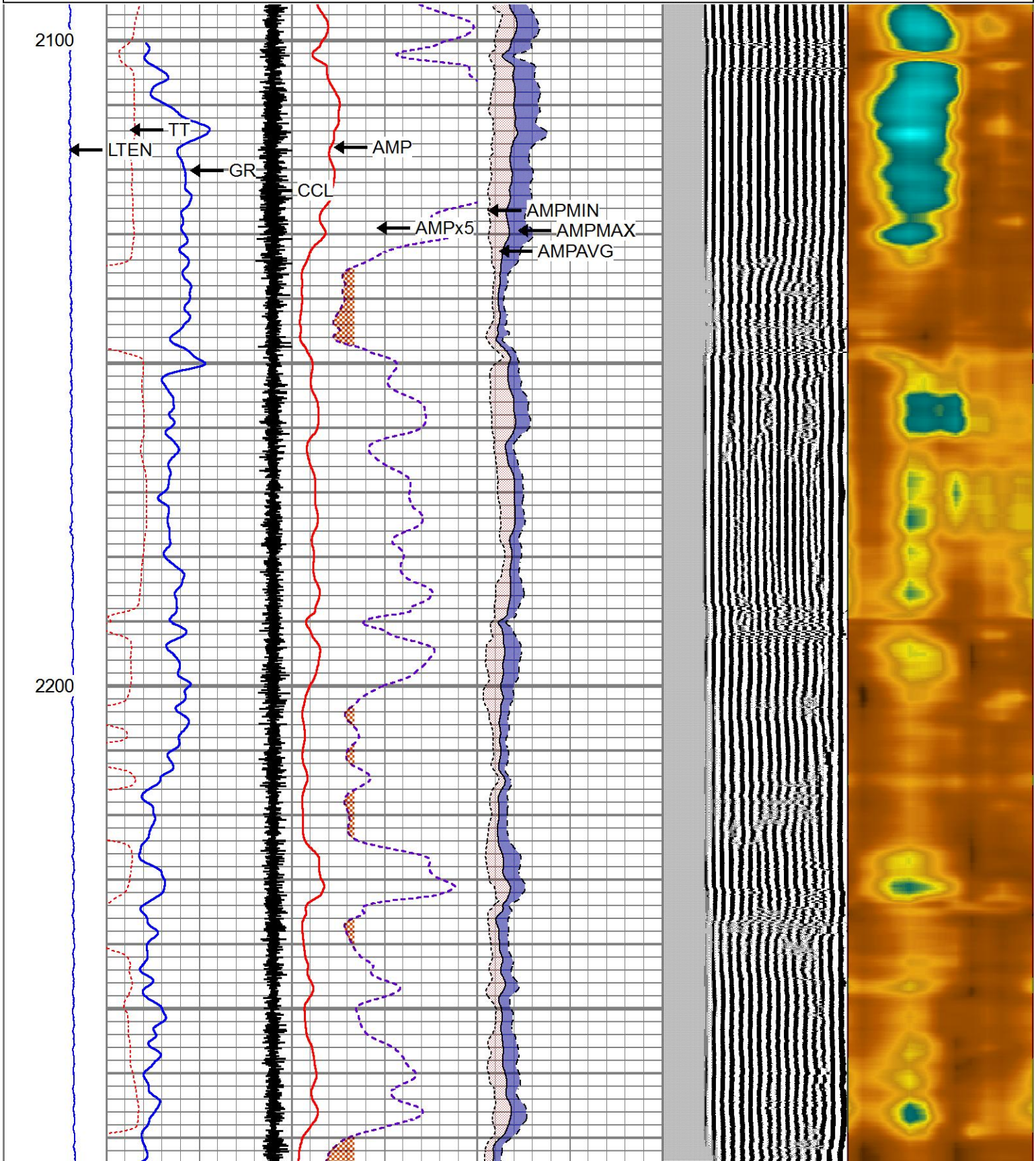
TOP OF 60% OR BETTER CEMENT

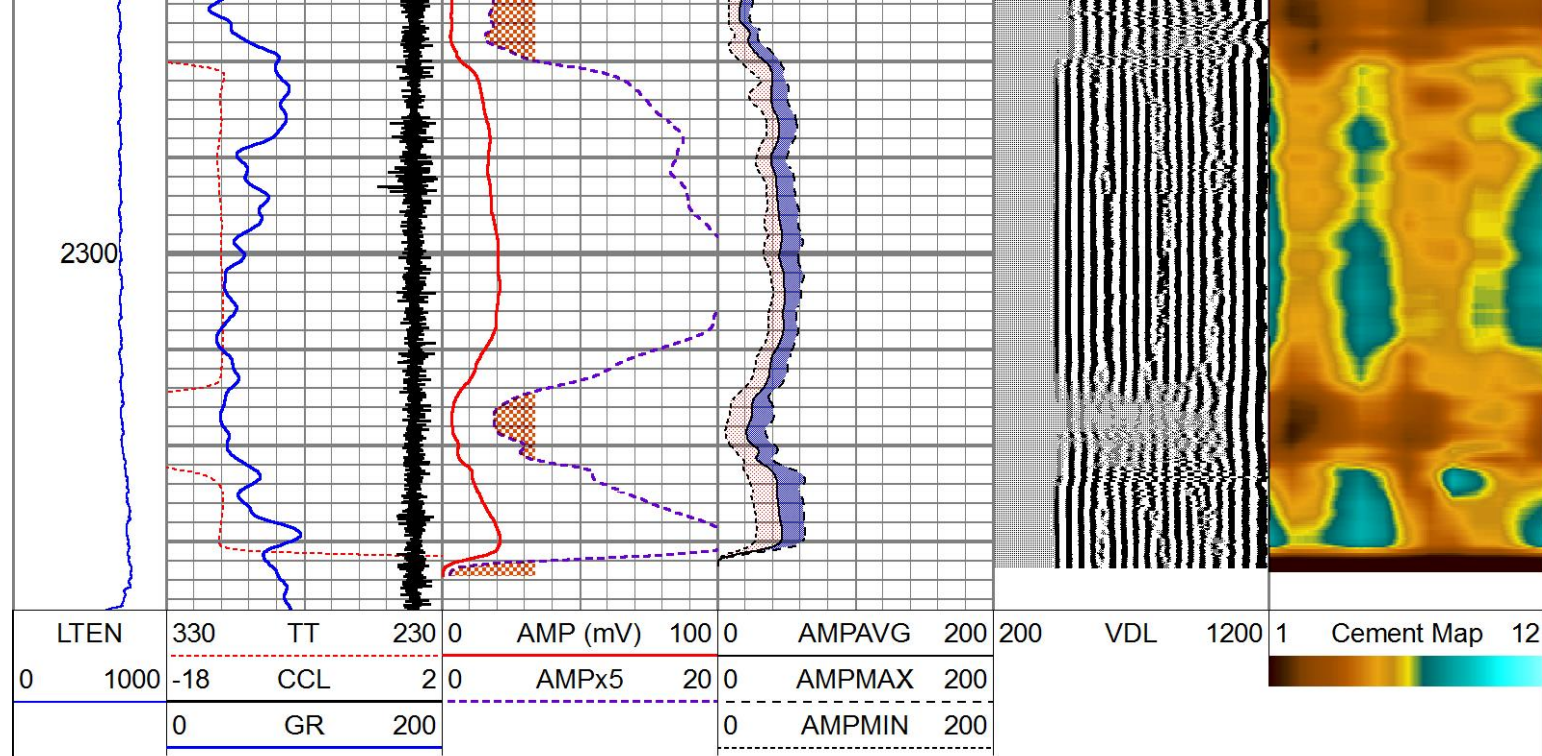




Database File 62717_advancedresources_scbl-temp.db
Dataset Pathname pass5R1
Presentation Format sec12_ch
Dataset Creation Tue Jun 27 15:02:19 2017
Charted by Depth in Feet scaled 1:240

LTEN	330	TT	230	0	AMP (mV)	100	0	AMPAVG	200	200	VDL	1200	1	Cement Map	12
0	1000	-18	CCL	2	0	AMPx5	20	0	AMPMAX	200					
		0	GR	200				0	AMPMIN	200					





Database File 62717_advancedresources_scbl-temp.db
Dataset Pathname pass6
Dataset Creation Tue Jun 27 12:53:53 2017

Gamma Ray Calibration Report

Serial Number: IPCD9-03
Tool Model: 2.75GR
Performed: Mon Aug 24 11:08:45 2015

Calibrator Value: 350.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 450.0 cps

Sensitivity: 0.7778 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: IMG20-01
Tool Model: Tek12

Calibration Casing Diameter: 9.625 in
Calibration Depth: 485.575 ft

Master Calibration, performed Tue Jun 27 12:23:23 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.022	0.800	1.800	51.000	63.197	0.411
CAL	0.022	0.465				
5'	0.022	0.920	1.800	51.000	54.819	0.593
S1	0.022	0.406	1.800	100.000	255.561	-3.815
S2	0.022	0.415	1.800	100.000	249.691	-3.686
S3	0.022	0.509	1.800	100.000	201.527	-2.638
S4	0.022	0.562	1.800	100.000	181.703	-2.201
S5	0.022	0.641	1.800	100.000	158.673	-1.686
S6	0.022	0.639	1.800	100.000	159.181	-1.690

S7	0.022	0.604	1.800	100.000	168.794	-1.909
S8	0.022	0.520	1.800	100.000	197.170	-2.532
S9	0.022	0.427	1.800	100.000	242.708	-3.521
S10	0.022	0.417	1.800	100.000	248.595	-3.674
S11	0.022	0.346	1.800	100.000	303.008	-4.876
S12	0.022	0.362	1.800	100.000	288.593	-4.541

Air Zero Calibration, performed Tue Jun 27 12:04:49 2017:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
CAL	0.000	0.022	
5'	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000
S9	0.000	0.000	0.000
S10	0.000	0.000	0.000
S11	0.000	0.000	0.000
S12	0.000	0.000	0.000

Filter Report

Database File 62717_advancedresources_scbl-temp.db
Dataset Pathname pass6
Dataset Creation Tue Jun 27 12:53:53 2017

Filter Name	Filter Type	Filter Length
		(ft)
AMP3FT	Gaussian	4.00
TT3FT	Gaussian	4.00
AMPCAL	Gaussian	4.00
AMP5FT	Gaussian	4.00
TT5FT	Gaussian	4.00
AMPS1	Gaussian	4.00
AMPS2	Gaussian	4.00
AMPS3	Gaussian	4.00
AMPS4	Gaussian	4.00
AMPS5	Gaussian	4.00
AMPS6	Gaussian	4.00
AMPS7	Gaussian	4.00
AMPS8	Gaussian	4.00
AMPS9	Gaussian	4.00
AMPS10	Gaussian	4.00
AMPS11	Gaussian	4.00
AMPS12	Gaussian	4.00
LSPD	None	
LTEN	None	
LSPDRT	None	
GR	Gaussian	5.00
CCL	None	

Sensor Report

Database File 62717_advancedresources_scbl-temp.db
Dataset Pathname pass6
Dataset Creation Tue Jun 27 12:53:53 2017

Sensor Name	Offset
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Sensor Name	Offset
	(ft)
WVFS12	6.23
WVFS11	6.23
WVFS10	6.23
WVFS9	6.23
WVFS8	6.23
WVFS7	6.23
WVFS6	6.23
WVFS5	6.23
WVFS4	6.23
WVFS3	6.23
WVFS2	6.23
WVFS1	6.23
WWFCAL	5.48
WWF3FT	5.48
WWF5FT	4.48
WVFSYNC	1.15
CCL	0
GR	-3.33
PMON	-7.35

Log Variables

DatabaseC:\ProgramData\Warrior\Data\62717_advancedresources_scbl-temp.db
Dataset field/well/run1/pass6/_vars_

Top - Bottom							
BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	in 0	degF 0	in 9.625	in 0	lb/ft 40	mV 51	mV 1.8
MINATTN	PERFS	PPT	SRFTEMP	TDEPTH			
db/ft 0.8	0	usec 308	degF 0	ft 0			

Variable Description	
BHTEMP_Src : BHTEMP Input Source Selector	MINAMPL : Minimum Amplitude
BOREID : Borehole I.D.	MINATTN : Minimum Attenuation
BOTTEMP : Bottom Hole Temperature	PERFS : Perforation Flag
CASEOD : Casing O.D.	PPT : Predicted Pipe Time
CASETHCK : Casing Thickness	SRFTEMP : Surface Temperature
CASEWGHT : Casing Weight	TDEPTH : Total Depth
MAXAMPL : Maximum Amplitude	



Company:

MISSISSIPPI POWER COMPANY

Well:

MPC 34-1 #1

Field:

WILDCAT

County:

KEMPER

State:

MS