Schlumberger

Company: **EnCana Oil & Gas Inc.**

Well: **SGU 8504D−25 F25 496 (F25)**
Field: **Story Gulch**
County: **Garfield** State: **Colorado**

County: Garfield
Field: Story Gulch
Location: SHL: SENW Sec 25 T4S R96W 6
Well: SGU 8504D−25 F25 496 (F25)
Company: EnCana Oil & Gas Inc.

IMAGING BEHIND CASING
ISOLATION SCANNER
GAMMA RAY − CCLU

LOCATION

SHL: SENW Sec 25 T4S R96W 6th PM	Elev.:	K.B.	8320.00 ft
BHL: NENW 25−4S−96W 6th PM		G.L.	8298.00 ft
		D.F.	8319.00 ft

Permanent Datum:	GROUND LEVEL	Elev.:	8298.00 ft
Log Measured From:	KELLY BUSHING	22.00 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		

API Serial No.	Section	Township	Range
05−045−19762−0000	25	4S	96W

RECOMPUTED

Logging Date		11−Apr−2011				
Run Number		1				
Depth Driller		2961 ft				
Schlumberger Depth		2627 ft				
Bottom Log Interval		2615 ft				
Top Log Interval		300 ft				
Casing Fluid Type		Water				
Salinity						
Density		8.35 lbm/gal				
Fluid Level		22 ft				
BIT/CASING/TUBING STRING						
Bit Size		14.750 in				
From		22 ft				
To		3007 ft				
Casing/Tubing Size		9.625 in				
Weight		36 lbm/ft				
Grade		J−55				
From		22 ft				
To		3007 ft				
Maximum Recorded Temperatures						
Logger On Bottom	Time	11−Apr−2011	14:50			
Unit Number	Location	9102	Vernal, UT			
Recorded By		Mike Septon				
Witnessed By		Unattended				

		Run 1	Run 2	Run
PVT DATA	Oil Density			
	Water Salinity			
	Gas Gravity			
	Bo			
	Bw			
	1/Bg			
	Bubble Point Pressure			
	Bubble Point Temperature			
Solution GOR				
Maximum Deviation				
CEMENTING DATA				
Primary/Squeeze		Primary		
Casing String No				
Lead Cement Type				
Volume				
Density		9 lbm/gal		
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top				

Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Fluid Type						
Salinity						
Density						
Fluid Level						
BIT/CASING/TUBING STRING						
Bit Size						
From						
To						
Casing/Tubing Size						
Weight						
Grade						
From						
To						
Maximum Recorded Temperatures						
Logger On Bottom	Time					
Unit Number	Location					
Recorded By						
Witnessed By						

n 3

Run 4

DEPTH SUMMARY LISTING

Date Created: 11−APR−2011 16:00:11

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−B	Type:	CMTD−B/A	Type:	7−46P XS
Serial Number:	6982	Serial Number:	119	Serial Number:	6710245
Calibration Date:	22−DEC−2010	Calibration Date:	17−MAR−201	Length:	21200 FT
Calibrator Serial Number:	26	Calibrator Serial Number:	100518	Conveyance Method:	Wireline
Calibration Cable Type:	7−46P	Number of Calibration Points:	10	Rig Type:	Rigless
Wheel Correction 1:	−7	Calibration RMS:	6		
Wheel Correction 2:	−7	Calibration Peak Error:	9		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	186.00 FT
Rig Up Length At Bottom:	186.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	1.00 FT
Tool Zero Check At Surface:	0.00 FT

Depth Control Remarks

1. SHLUMBERGER DEPTH CONTROL STANDARDS FOLLOWED
2. IDW USED AS PRIMARY DEPTH CONTROL, Z−CHART USED AS SECONDARY DEPTH CONTRC
3.
4.
5.
6.

OTHER SERVICES1	OTHER SERVICES2
OS1: NONE	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in the well	
Toolstring ran as per toolsketch	
Toolstring centralized with 2 in−line centralizers and 2 GEMCOs	
Logging speed: 1800 ft/hr	
Expected attenuation with free fluid behind casing: 59 db/m	
Log ran with no wellhead pressure	

Well cemented with 9 ppg light cement	
Expected casing ID: 8.921"	
TD tagged early at 2627'	

RUN 1		RUN 2	
SERVICE ORDER #:	BEHA−00058	SERVICE ORDER #:	
PROGRAM VERSION:	18C0−147	PROGRAM VERSION:	
FLUID LEVEL:	22 ft	FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

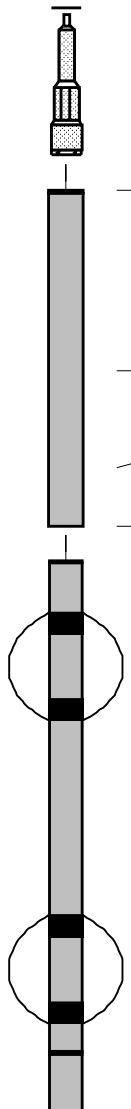
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

WITM (EDTS)−A

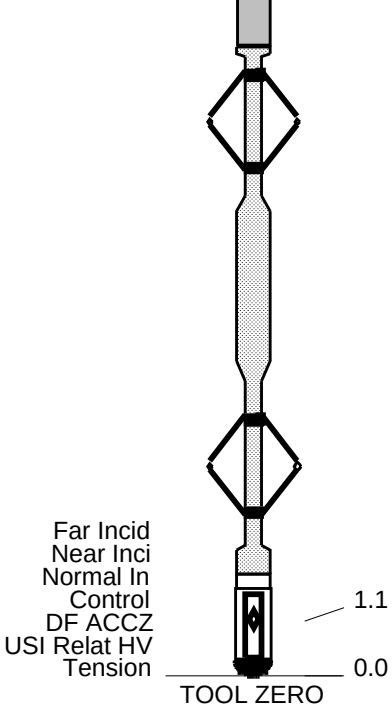
DOWNHOLE EQUIPMENT



LEH−QT 33.1
LEH−QT

EDTC−B 30.2
EDTH−B 8187
EDTC−B 8188
EDTG−A/B

USIT−D 23.7
ECH−MRA 4952
USIC−D 951
AH−107 3899
USIS−A 951
USSC−B
IBCS_C−100158203 831
Top Transducer
Middle Top Transducer
Middle Bottom Transducer
Bottom Transducer



MAXIMUM STRING DIAMETER 7.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

SLG COMPOSITE

MAXIS Field Log

Company: EnCana Oil & Gas Inc. **Well: SGU 8504D−25 F25 496 (F25)**

Input DLIS Files

	USI_010PUP	FN:9		13−Apr−2011 15:10	2615.5 FT	300.0 FT

Output DLIS Files

DEFAULT	USI_056PUP	FN:49	PRODUCER	15−Apr−2011 09:46	2615.5 FT	300.0 FT

OP System Version: 18C0−147

USIT−D	SRPC−4072−Q4_2010_OP18	EDTC−B	SRPC−4072−Q4_2010_OP18

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
ZMUD	1.6 MRAY	1.7 MRAY	2231.5 09:48:01
	1.5 MRAY	1.6 MRAY	712.5 09:49:55

Image rotation (UCAZ) (DEG)
0 360

Tool/Tot. Drag From D4T to STIA

Cable Drag From D4T to STIT

Stuck Stretch (STIT)

0 (F) 50

RSAV (RSAV) (RPS)

6 7.5

CCL (CCLU) (----

−20 20

Maximum of AI (AIMX)

−1 (MRAY) 9

Average of AI (AIAV)

−1 (MRAY) 9

Maximum Flexural Attenuation (U−USIT_ UFAX)

50 (DB/M) 75

Average Flexural Attenuation (U−USIT_ UFAV)

50 (DB/M) 75

Eccent. (ECCE)

0 (IN) 0.5

0.5000
1.5000
2.5000
3.5000
6.5000

Process. flags (UFLG) (----

−500.0000
−6.0000
−5.6000
−5.2000
−4.8000
−4.4000
−4.0000
−3.6000
−3.2000
−2.8000
−2.4000
−2.0000
−1.6000
−1.2000
−0.8000
−0.4000
0.5000

Amplitude of echo minus Max (AWBK) (DB)

Minimum of AI (AIMN)

−1 (MRAY) 9

−500.0000
0.2500
0.5000
0.7500
1.0000
1.2500
1.5000
1.7500
2.0000
2.2500
2.5000
2.7500
3.0000
3.2500
3.5000
3.7500
4.0000

Raw Acoustic Imped. (AIBK) (MRAY)

Minimum Flexural Attenuation (U−USIT_ UFAN)

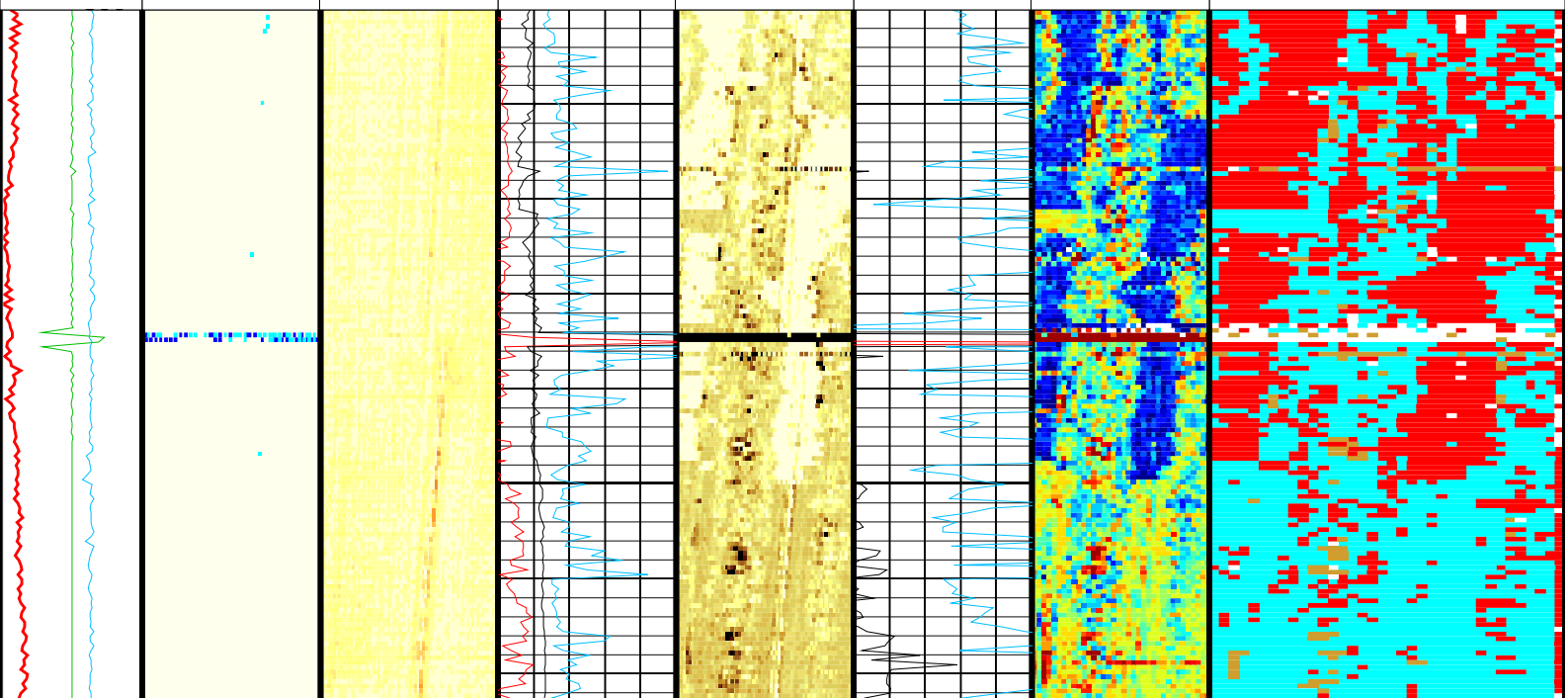
50 (DB/M) 75

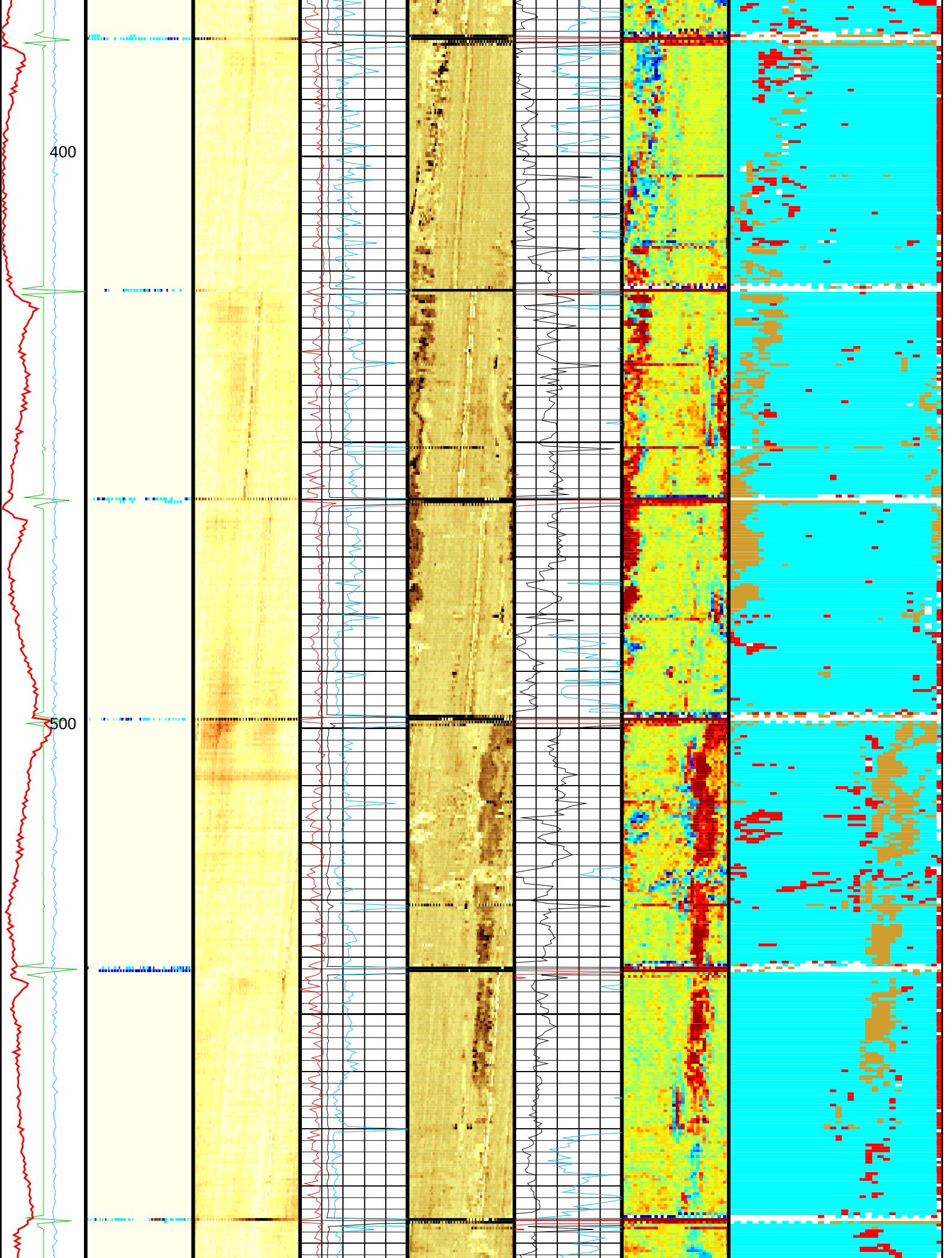
0.0000
20.0000
24.0000
28.0000
32.0000
36.0000
40.0000
44.0000
48.0000
52.0000
56.0000
60.0000
64.0000
68.0000
72.0000
76.0000
80.0000

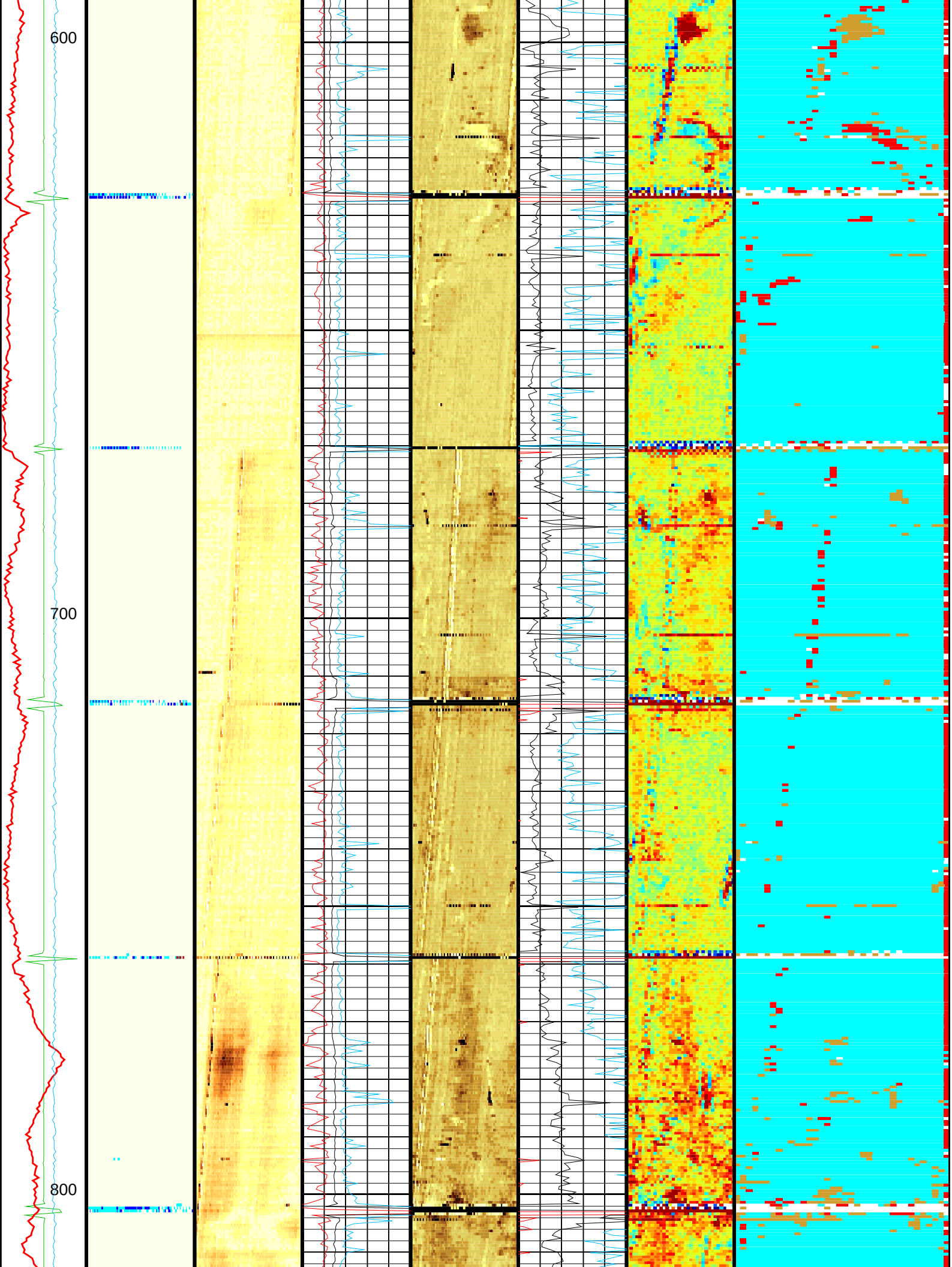
Flexural Attenuation (U−USIT_ UFAK) (DB/M)

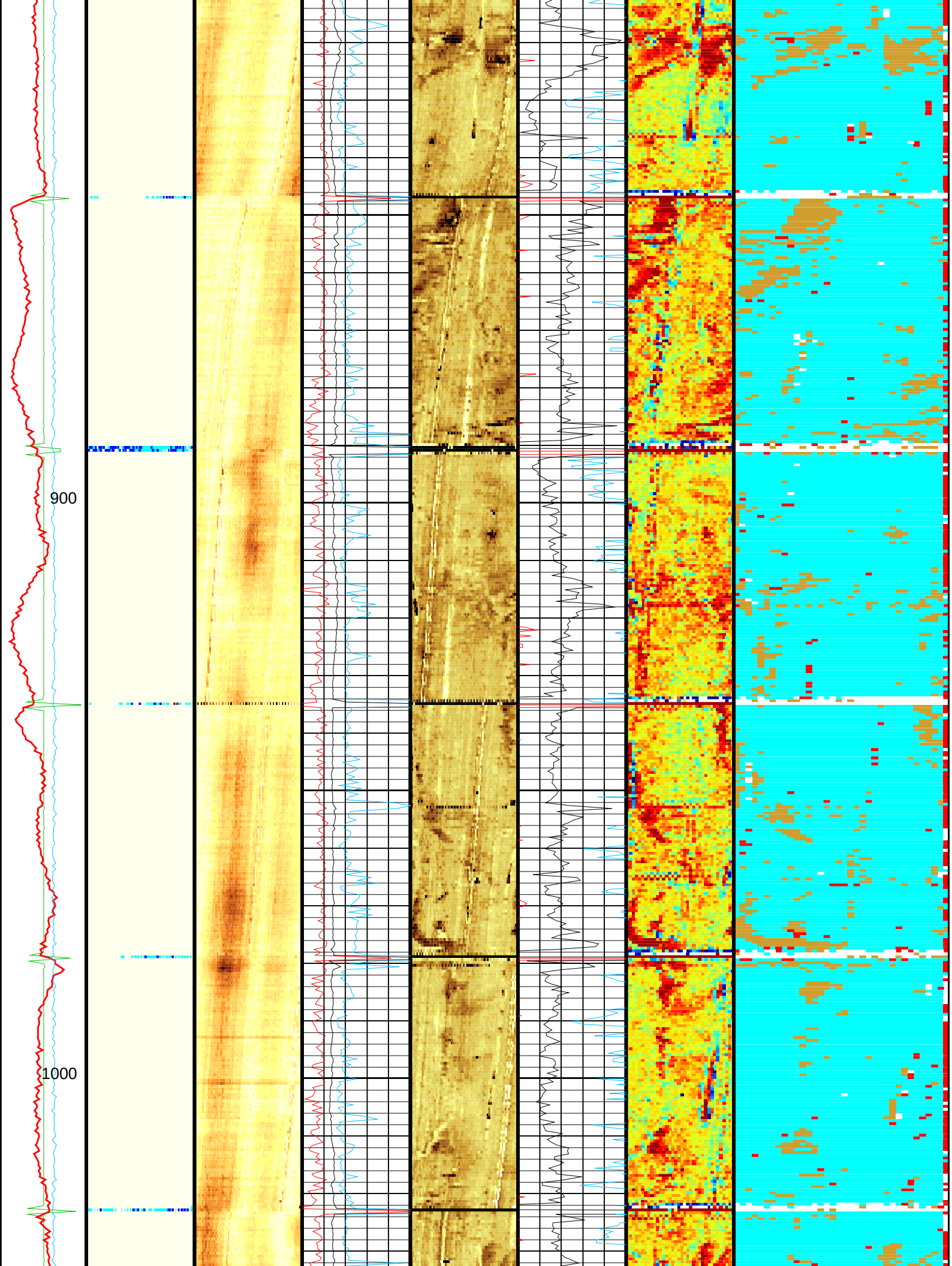
0.5000
1.5000
2.5000
3.5000

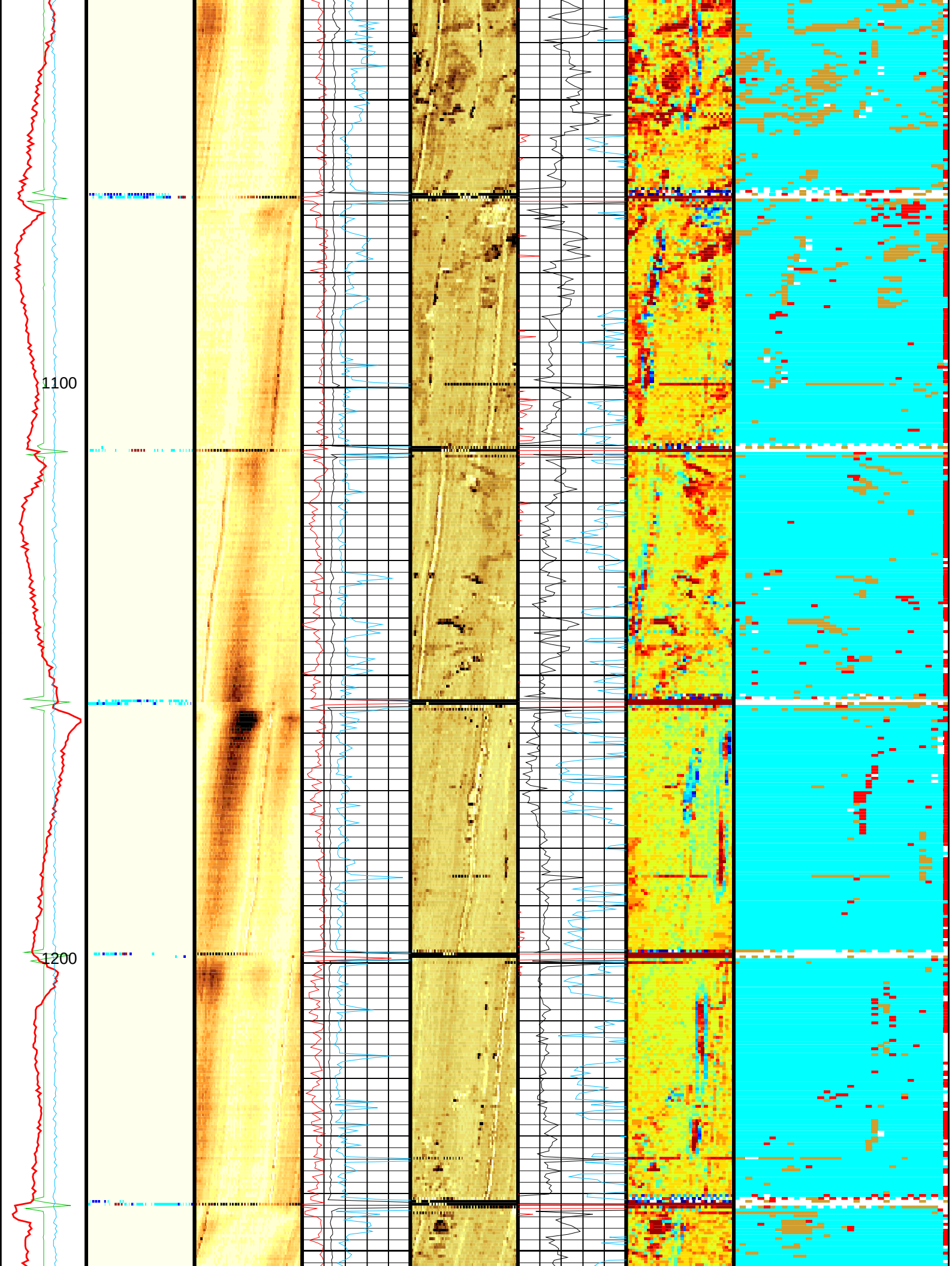
Solid Liquid Gas Map (U−USIT_USLP) (----

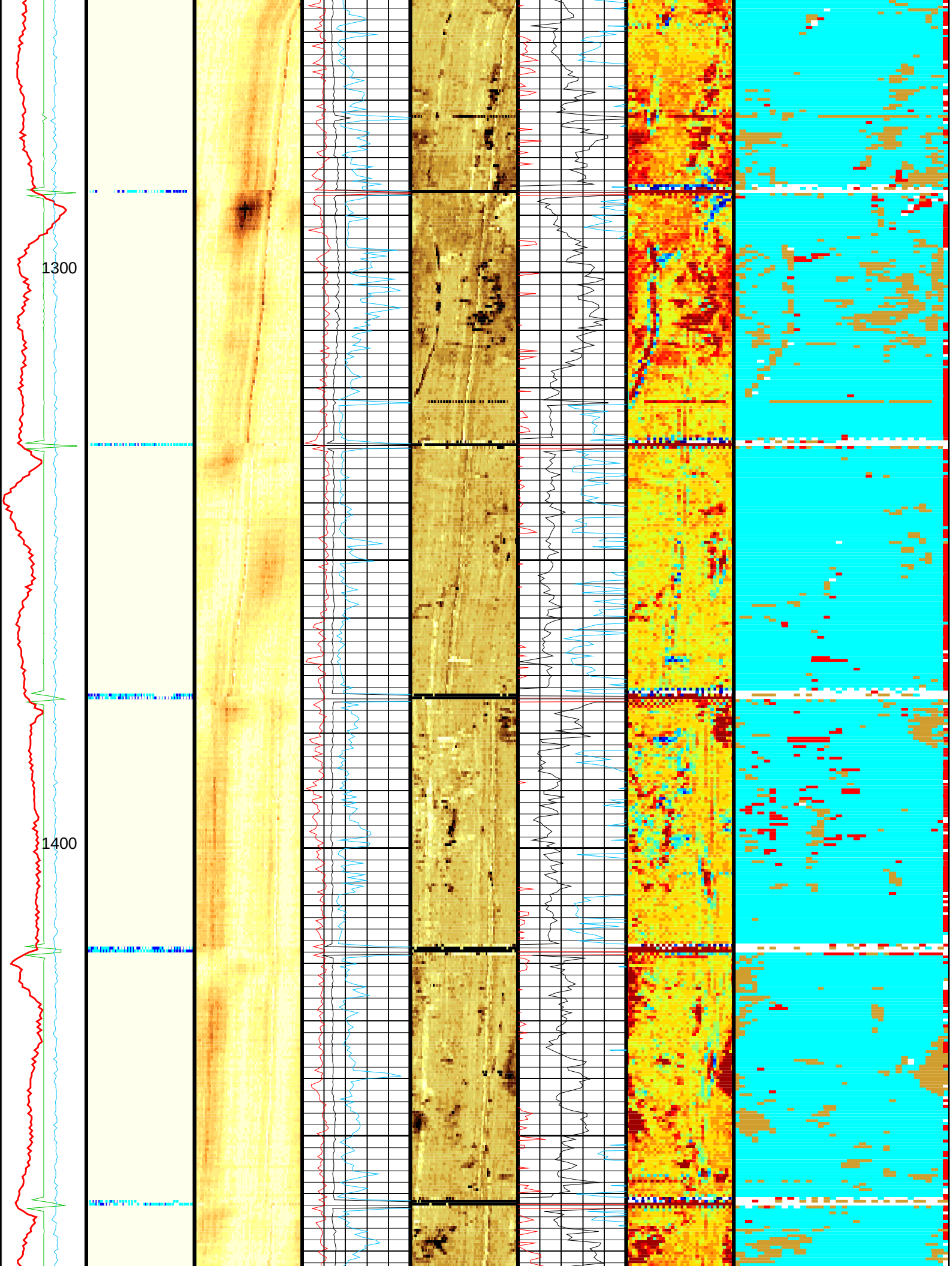


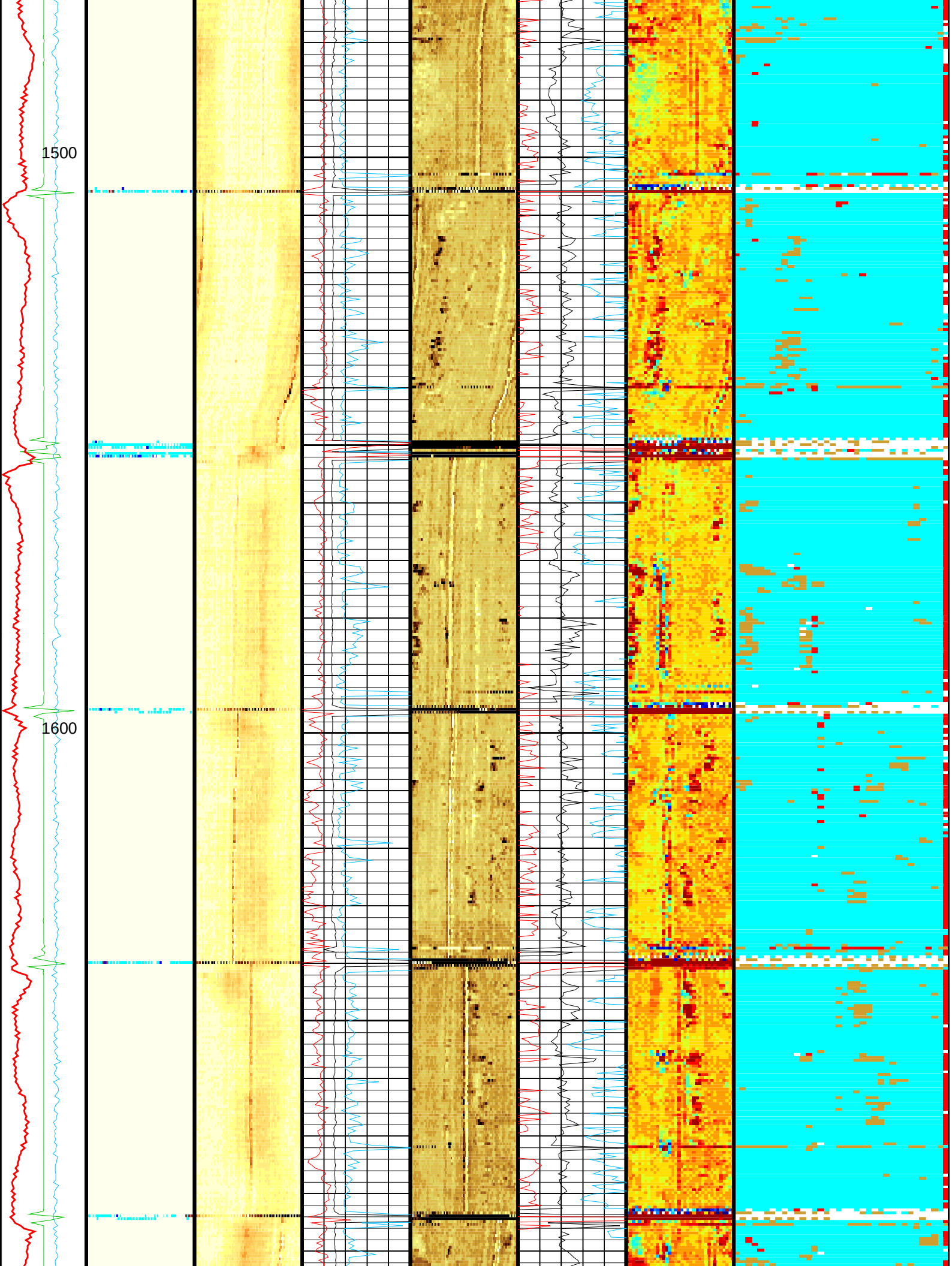

400
500

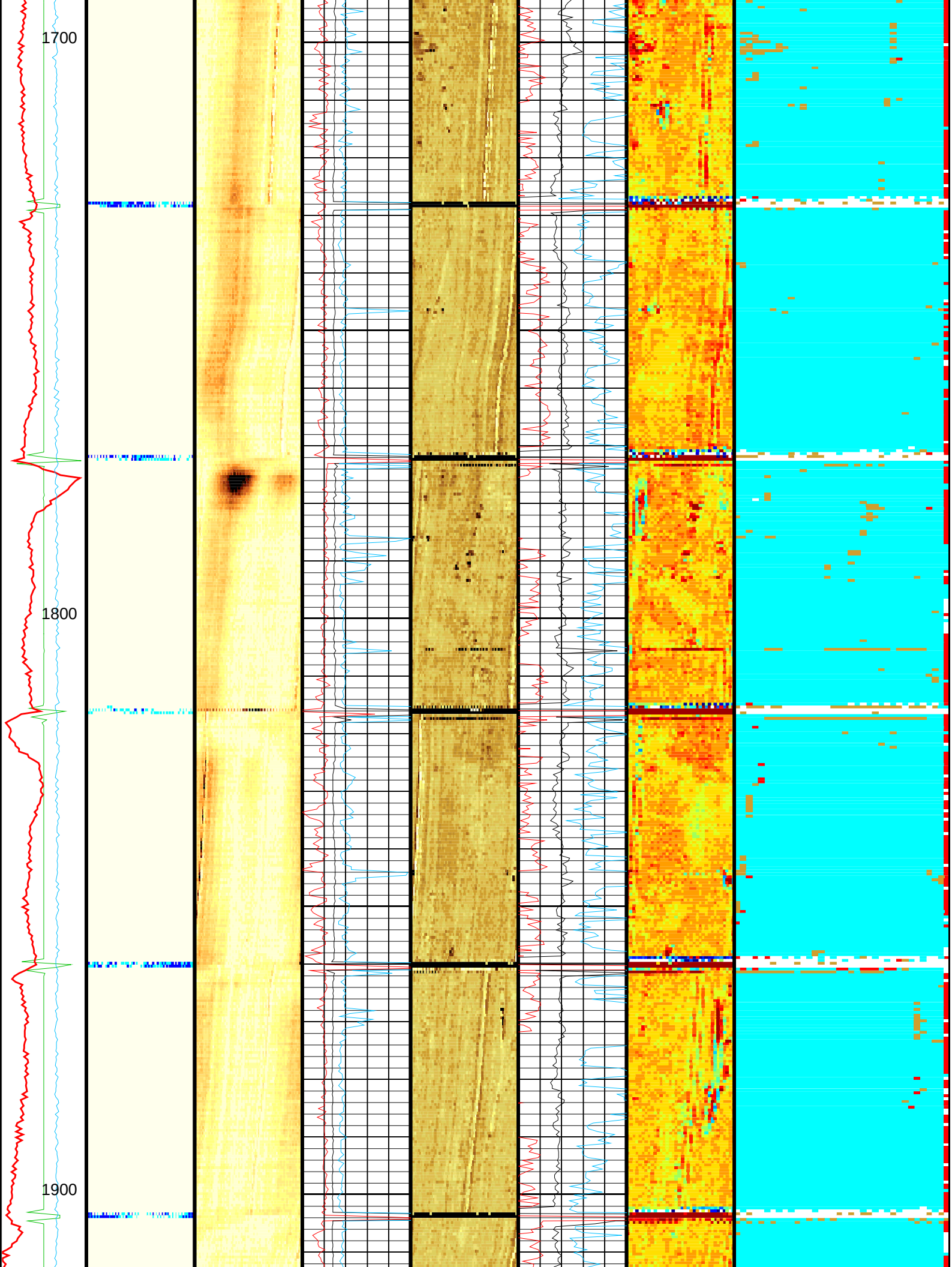

600
700
800

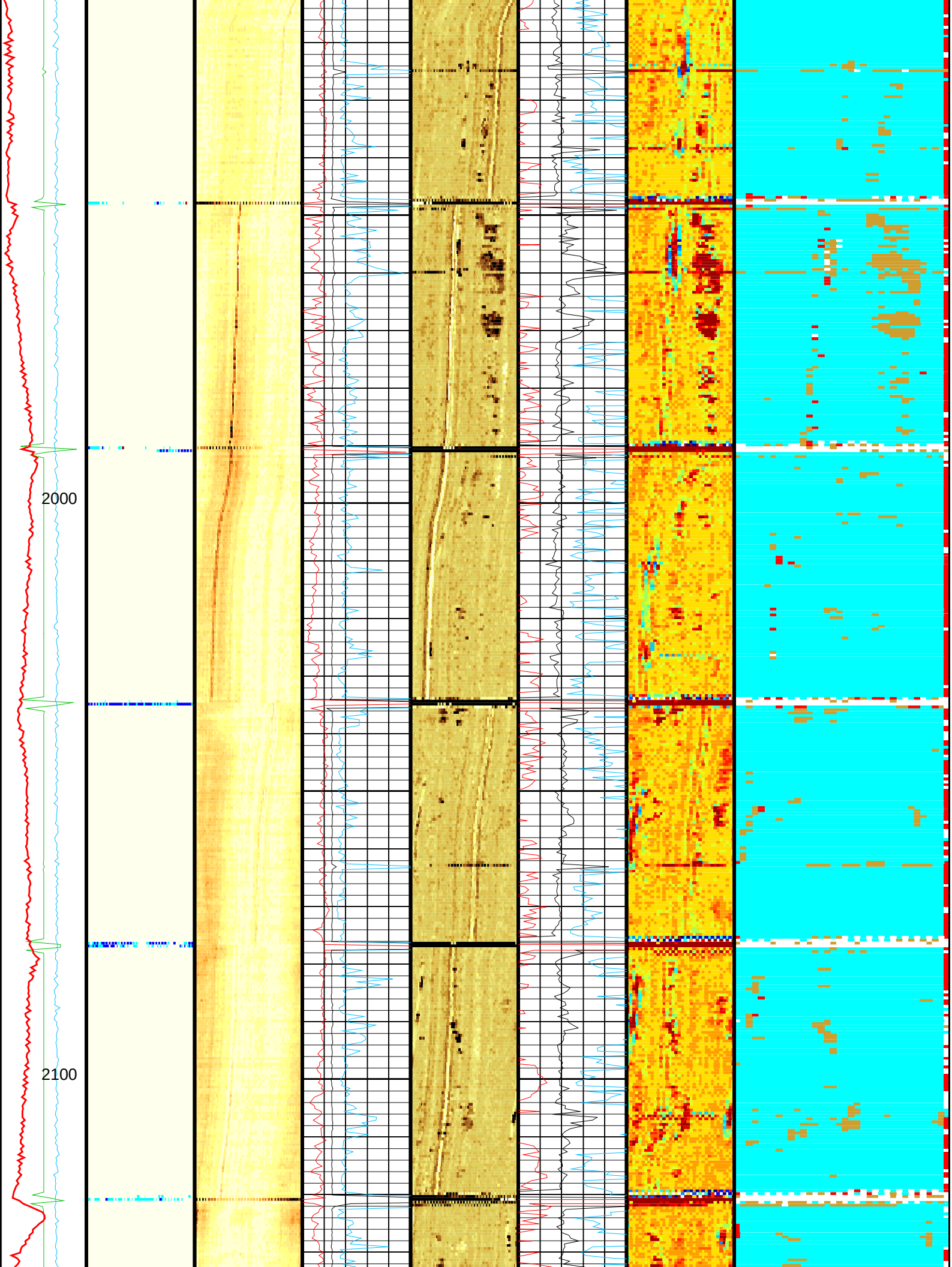

900
1000

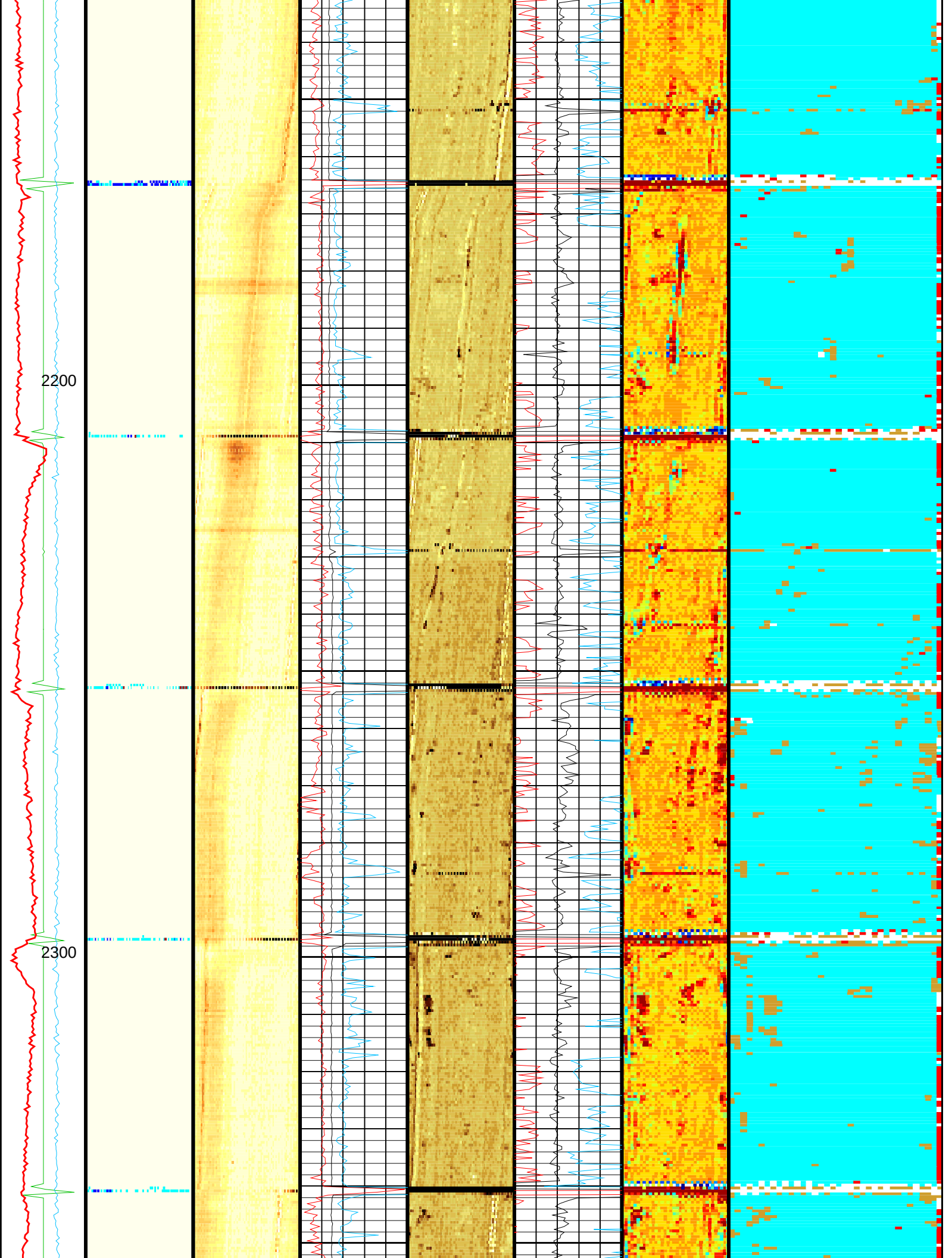

1100
1200

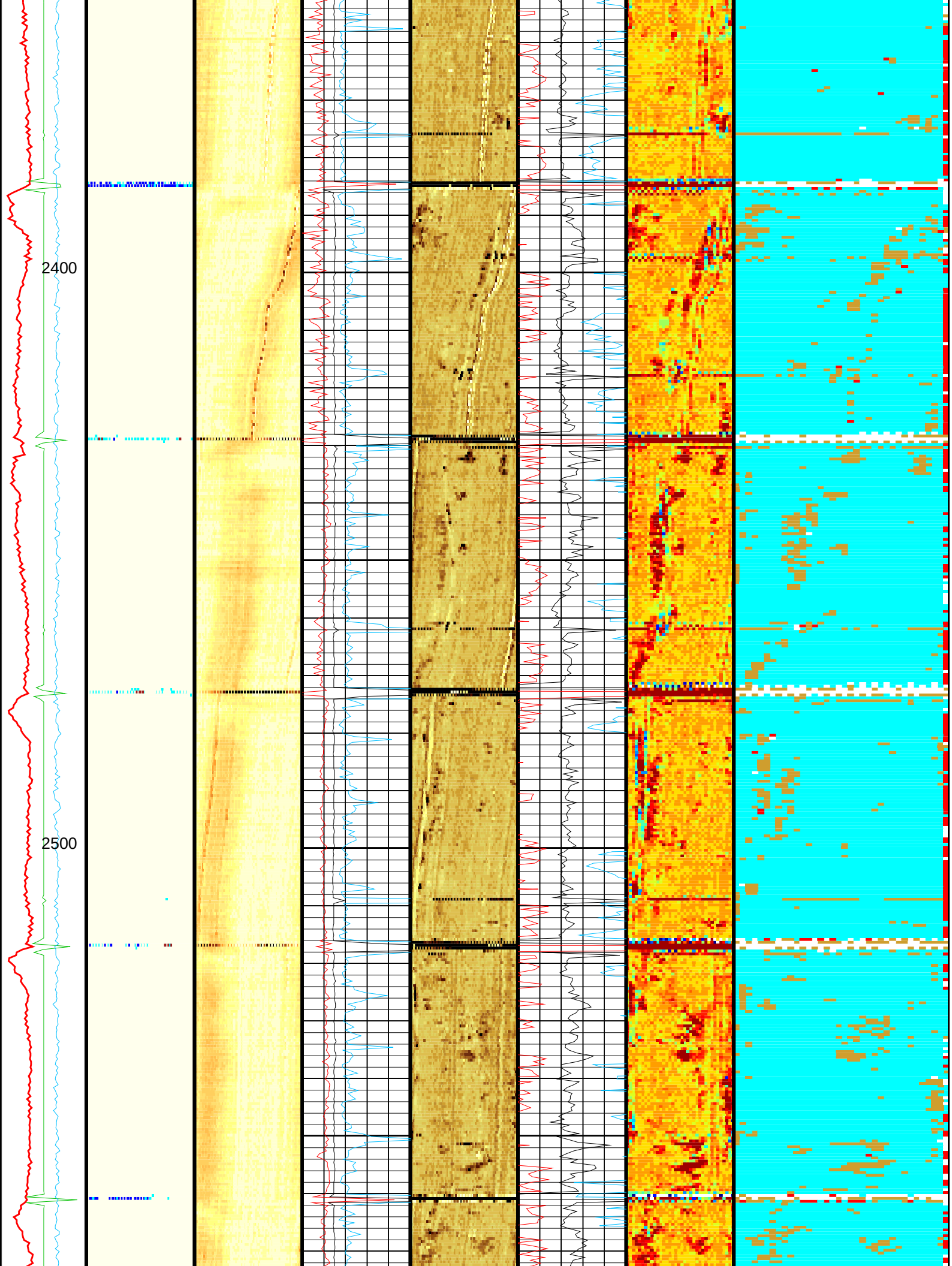

1300
1400

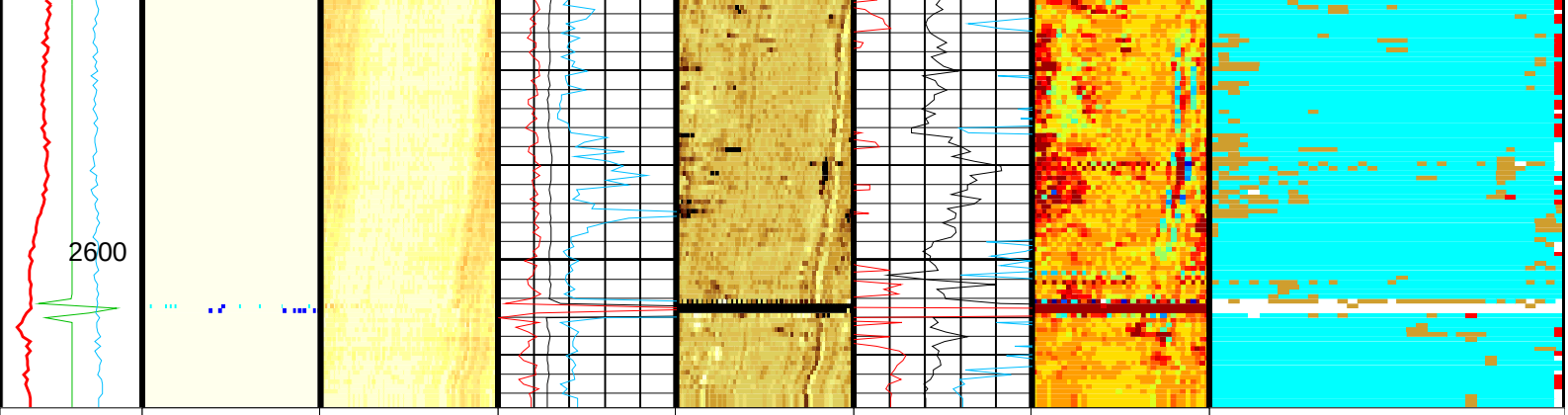

1500
1600


1700
1800
1900


2000
2100


2200
2300


2400
2500



Eccent. (ECCE)
0 (IN) 0.5

0.5000
1.5000
2.5000
3.5000
6.5000

Process. flags (UFLG) (----

−500.0000
−6.0000
−5.6000
−5.2000
−4.8000
−4.4000
−4.0000
−3.6000
−3.2000
−2.8000
−2.4000
−2.0000
−1.6000
−1.2000
−0.8000
−0.4000
0.5000

Amplitude of echo minus Max (AWBK) (DB)

Minimum of AI (AIMN)
−1 (MRAY) 9

−500.0000
0.2500
0.5000
0.7500
1.0000
1.2500
1.5000
1.7500
2.0000
2.2500
2.5000
2.7500
3.0000
3.2500
3.5000
3.7500
4.0000

Raw Acoustic Imped. (AIBK) (MRAY)

Minimum Flexural Attenuation (U−USIT_ UFAN)
50 (DB/M) 75

0.0000
20.0000
24.0000
28.0000
32.0000
36.0000
40.0000
44.0000
48.0000
52.0000
56.0000
60.0000
64.0000
68.0000
72.0000
76.0000
80.0000

Flexural Attenuation (U−USIT_ UFAK) (DB/M)

0.5000
1.5000
2.5000
3.5000

Solid Liquid Gas Map (U−USIT_USLP) (----

CCL (CCLU) (----
−20 20

Average of AI (AIAV)
−1 (MRAY) 9

Average Flexural Attenuation (U−USIT_ UFAV)
50 (DB/M) 75

RSAV (RSAV) (RPS)
6 7.5

Maximum of AI (AIMX)
−1 (MRAY) 9

Maximum Flexural Attenuation (U−USIT_ UFAX)
50 (DB/M) 75

Stuck Stretch (STIT)
0 (F) 50

Cable Drag From D4T to STIT

Tool/Tot. Drag From D4T to STIA

Image rotation (UCAZ) (DEG)
0 360

Format: USI_IBC_SLG **Vertical Scale: 5" per 100'** **Graphics File Created: 15−Apr−2011 09:46**

OP System Version: 18C0−147

USIT−D	SRPC−4072−Q4_2010_OP18	EDTC−B	SRPC−4072−Q4_2010_OP18

All USI Images are outside views

USI : LOW Frequency Compression Mode Used For Logging.

Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.

Parameters

DLIS Name	Description	Value	
	USIT−D: Ultrasonic Imaging − D		
AGMN	Minimum Gain of Cartridge	−4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	9.625	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	8.921	IN
DFVL	Default Fluid Velocity	202	US/F
DOT	Diameter of Transducer Sensor	4.874	IN
EMXV	EMEX Voltage	40	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_UFSL_N_UFAI	
IMAR	Image Rotation	OFF	
MW	Mud Weight	8.4	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.352	IN
U−USIT_CEMT	USIT Cement Type	ULTRA_LIGHT	
U−USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	MRAY
U−USIT_IISR	USIT IBC Inverted Fluid Slowness Resolution	1.0_US_P_FT	
U−USIT_IIZR	USIT IBC Inverted ZMUD Resolution	0.050_MRAY	
U−USIT_OCDI	USIT Outer Casing Diameter	0	IN
U−USIT_OCSH	USIT Outer Casing Shoe	0	FT
U−USIT_OCWE	USIT Outer Casing Weight	0	LB/F
U−USIT_TIEB	IBC Third Interface Echo Bin Processing	YES	
U−USIT_TIEC	IBC Third Interface Echo Cleaning	NONE	
U−USIT_TIEM	IBC Third Interface Echo Multi Tracking	NO	
U−USIT_TIEP	IBC Third Interface Echo Policy	BFEP	
U−USIT_TIER	IBC Third Interface Echo Receivers	BOTH	
U−USIT_U3WE	Third Interface Echo Window End	110	US
U−USIT_UBTP	USIT Bottom Transducer Position	UNKNOWN	
U−USIT_UFAO	USIT Flexural Attenuation Offset	−1	DB/M
U−USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U−USIT_UIST	Ultrasonic IBC Sonde Type	Sub_Ibcs_C	
U−USIT_UTAN	USIT Transducer Angles	33_DEG	
UMAO	USIT Measurement Angular Offset	−10	DEG
USTO	Ultrasonic Time Offset	−2	US
USUB	Ultrasonic Subassembly Identifier	Sub_9_58_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.1081	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	−1	MRAY
ZMUD	Acoustic Impedance of Mud	1.7	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.1	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth − Driller	2961.00	FT
TDL	Total Depth − Logger	2627.00	FT
	System and Miscellaneous		
BS	Bit Size	14.750	IN
CWEI	Casing Weight	36.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	

Input DLIS Files

	USI_010PUP	FN:9		13−Apr−2011 15:10	2615.5 FT	300.0 FT

Output DLIS Files

DEFAULT	USI_056PUP	FN:49	PRODUCER	15−Apr−2011 09:46		

Schlumberger

REPEAT PASS

MAXIS Field Log

Company: EnCana Oil & Gas Inc. **Well: SGU 8504D−25 F25 496 (F25)**

Input DLIS Files

	USI_006PUP	FN:5	15−Apr−2011 07:32	2615.0 FT	2394.5 FT

Output DLIS Files

DEFAULT	USI_055PUP	FN:48	PRODUCER	15−Apr−2011 09:35	2615.0 FT	2394.5 FT

OP System Version: 18C0−147

USIT−D	SRPC−4072−Q4_2010_OP18	EDTC−B	SRPC−4072−Q4_2010_OP18

Image rotation (UCAZ) (DEG)
0 360

Tool/Tot. Drag From D4T to STIA

Cable Drag From D4T to STIT

Stuck Stretch (STIT)
0 (F) 50

RSAV (RSAV) (RPS)
6 7.5

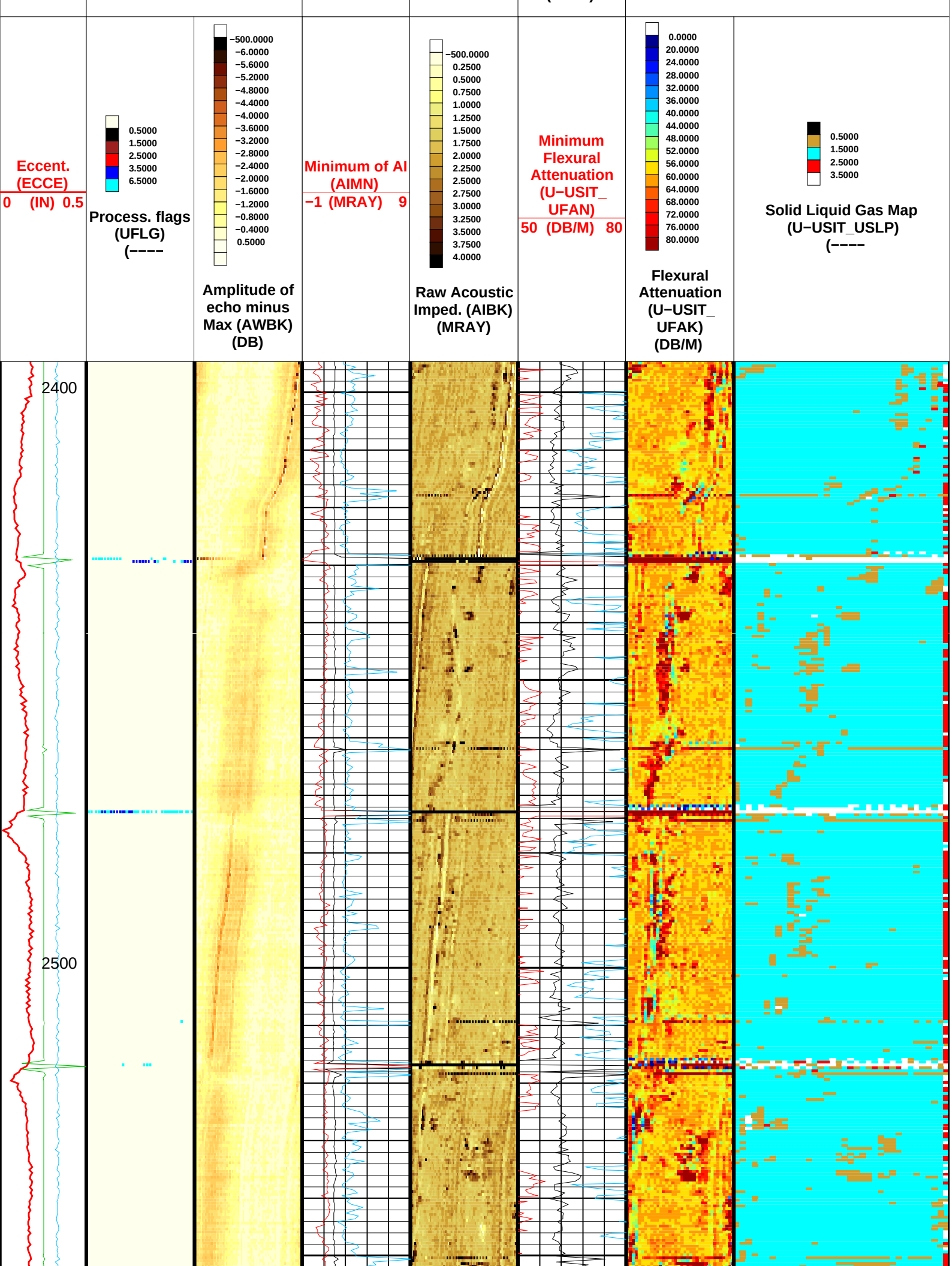
CCL (CCLU) (−−−−
−20 20

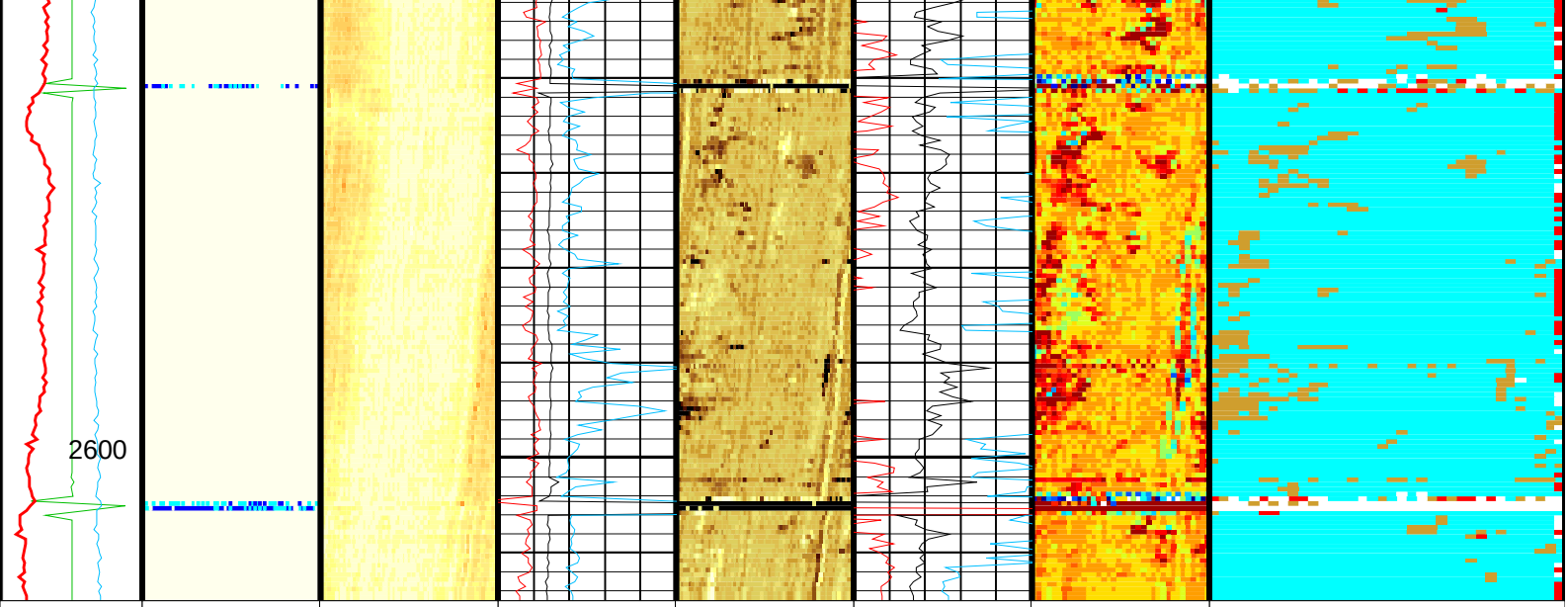
Maximum of AI (AIMX)
−1 (MRAY) 9

Average of AI (AIAV)
−1 (MRAY) 9

Maximum Flexural Attenuation (U−USIT_ UFAX)
50 (DB/M) 80

Average Flexural Attenuation (U−USIT_ UFAV)
50 (DB/M) 80


Eccent. (ECCE)
0 (IN) 0.5
0.5000
1.5000
2.5000
3.5000
6.5000
Process. flags (UFLG) (----
−500.0000
−6.0000
−5.6000
−5.2000
−4.8000
−4.4000
−4.0000
−3.6000
−3.2000
−2.8000
−2.4000
−2.0000
−1.6000
−1.2000
−0.8000
−0.4000
0.5000
Amplitude of echo minus Max (AWBK) (DB)
Minimum of AI (AIMN)
−1 (MRAY) 9
−500.0000
0.2500
0.5000
0.7500
1.0000
1.2500
1.5000
1.7500
2.0000
2.2500
2.5000
2.7500
3.0000
3.2500
3.5000
3.7500
4.0000
Raw Acoustic Imped. (AIBK) (MRAY)
Minimum Flexural Attenuation (U−USIT_ UFAN)
50 (DB/M) 80
0.0000
20.0000
24.0000
28.0000
32.0000
36.0000
40.0000
44.0000
48.0000
52.0000
56.0000
60.0000
64.0000
68.0000
72.0000
76.0000
80.0000
Flexural Attenuation (U−USIT_ UFAK) (DB/M)
0.5000
1.5000
2.5000
3.5000
Solid Liquid Gas Map (U−USIT_USLP) (----
2400
2500



Eccent. (ECCE) 0 (IN) 0.5	0.5000 1.5000 2.5000 3.5000 6.5000 Process. flags (UFLG) (----	−500.0000 −6.0000 −5.6000 −5.2000 −4.8000 −4.4000 −4.0000 −3.6000 −3.2000 −2.8000 −2.4000 −2.0000 −1.6000 −1.2000 −0.8000 −0.4000 0.5000 Amplitude of echo minus Max (AWBK) (DB)	Minimum of AI (AIMN) −1 (MRAY) 9	−500.0000 0.2500 0.5000 0.7500 1.0000 1.2500 1.5000 1.7500 2.0000 2.2500 2.5000 2.7500 3.0000 3.2500 3.5000 3.7500 4.0000 Raw Acoustic Imped. (AIBK) (MRAY)	Minimum Flexural Attenuation (U−USIT_ UFAN) 50 (DB/M) 80	0.0000 20.0000 24.0000 28.0000 32.0000 36.0000 40.0000 44.0000 48.0000 52.0000 56.0000 60.0000 64.0000 68.0000 72.0000 76.0000 80.0000 Flexural Attenuation (U−USIT_ UFAK) (DB/M)	0.5000 1.5000 2.5000 3.5000 Solid Liquid Gas Map (U−USIT_USLP) (----
CCL (CCLU) (---- −20 20			Average of AI (AIAV) −1 (MRAY) 9		Average Flexural Attenuation (U−USIT_ UFAV) 50 (DB/M) 80		
RSAV (RSAV) (RPS) 6 7.5			Maximum of AI (AIMX) −1 (MRAY) 9		Maximum Flexural Attenuation (U−USIT_ UFAX) 50 (DB/M) 80		
Stuck Stretch (STIT) 0 (F) 50							
Cable Drag From D4T to STIT							
Tool/Tot. Drag From D4T to STIA							
Image rotation							

(UCAZ)
(DEG)
0 360

Format: USI_IBC_SLG Vertical Scale: 5" per 100' Graphics File Created: 15−Apr−2011 09:35

OP System Version: 18C0−147

USIT−D	SRPC−4072−Q4_2010_OP18	EDTC−B	SRPC−4072−Q4_2010_OP18

All USI Images are outside views

USI : LOW Frequency Compression Mode Used For Logging.

Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.

Parameters

DLIS Name	Description	Value	
	USIT−D: Ultrasonic Imaging − D		
AGMN	Minimum Gain of Cartridge	−4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	9.625	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	8.921	IN
DFVL	Default Fluid Velocity	202	US/F
DOT	Diameter of Transducer Sensor	4.874	IN
EMXV	EMEX Voltage	40	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_UFSL_N_UFAI	
IMAR	Image Rotation	OFF	
MW	Mud Weight	8.4	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.352	IN
U−USIT_CEMT	USIT Cement Type	ULTRA_LIGHT	
U−USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	MRAY
U−USIT_IISR	USIT IBC Inverted Fluid Slowness Resolution	1.0_US_P_FT	
U−USIT_IIZR	USIT IBC Inverted ZMUD Resolution	0.050_MRAY	
U−USIT_OCDI	USIT Outer Casing Diameter	0	IN
U−USIT_OCSH	USIT Outer Casing Shoe	0	FT
U−USIT_OCWE	USIT Outer Casing Weight	0	LB/F
U−USIT_TIEB	IBC Third Interface Echo Bin Processing	YES	
U−USIT_TIEC	IBC Third Interface Echo Cleaning	NONE	
U−USIT_TIEM	IBC Third Interface Echo Multi Tracking	NO	
U−USIT_TIEP	IBC Third Interface Echo Policy	BFEP	
U−USIT_TIER	IBC Third Interface Echo Receivers	BOTH	
U−USIT_U3WE	Third Interface Echo Window End	110	US
U−USIT_UBTP	USIT Bottom Transducer Position	UNKNOWN	
U−USIT_UFAO	USIT Flexural Attenuation Offset	−1	DB/M
U−USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U−USIT_UIST	Ultrasonic IBC Sonde Type	Sub_Ibcs_C	
U−USIT_UTAN	USIT Transducer Angles	33_DEG	
UMAO	USIT Measurement Angular Offset	−10	DEG
USTO	Ultrasonic Time Offset	−2	US
USUB	Ultrasonic Subassembly Identifier	Sub_9_58_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.1081	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	−1	MRAY
ZMUD	Acoustic Impedance of Mud	1.7	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.1	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT

TDD	Total Depth − Driller	2961.00	FT
TDL	Total Depth − Logger	2627.00	FT
	System and Miscellaneous		
BS	Bit Size	14.750	IN
CWEI	Casing Weight	36.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	

Input DLIS Files

	USI_006PUP	FN:5	15−Apr−2011 07:32	2615.0 FT	2394.5 FT

Output DLIS Files

DEFAULT	USI_055PUP	FN:48	PRODUCER	15−Apr−2011 09:35

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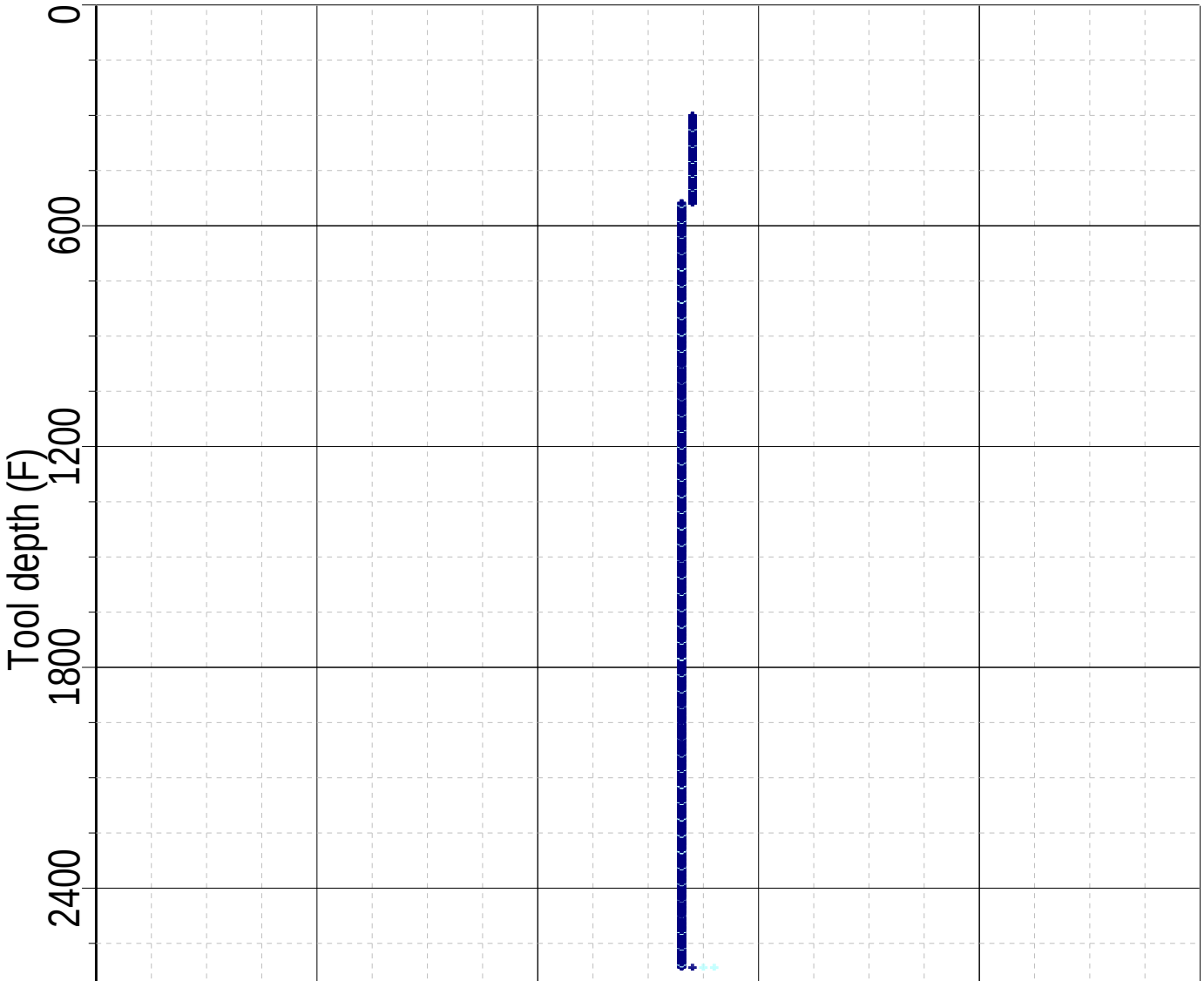
FLUID PROPERTIES

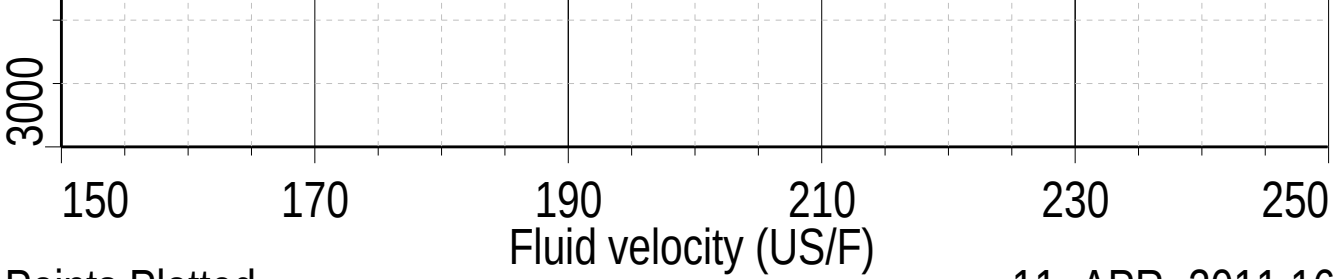
MAXIS Field Log

Index: 2615.5 − 300.0 FT

IBC Inv. Fluid Z QC (−−−−

0. 0.5





4632 Points Plotted

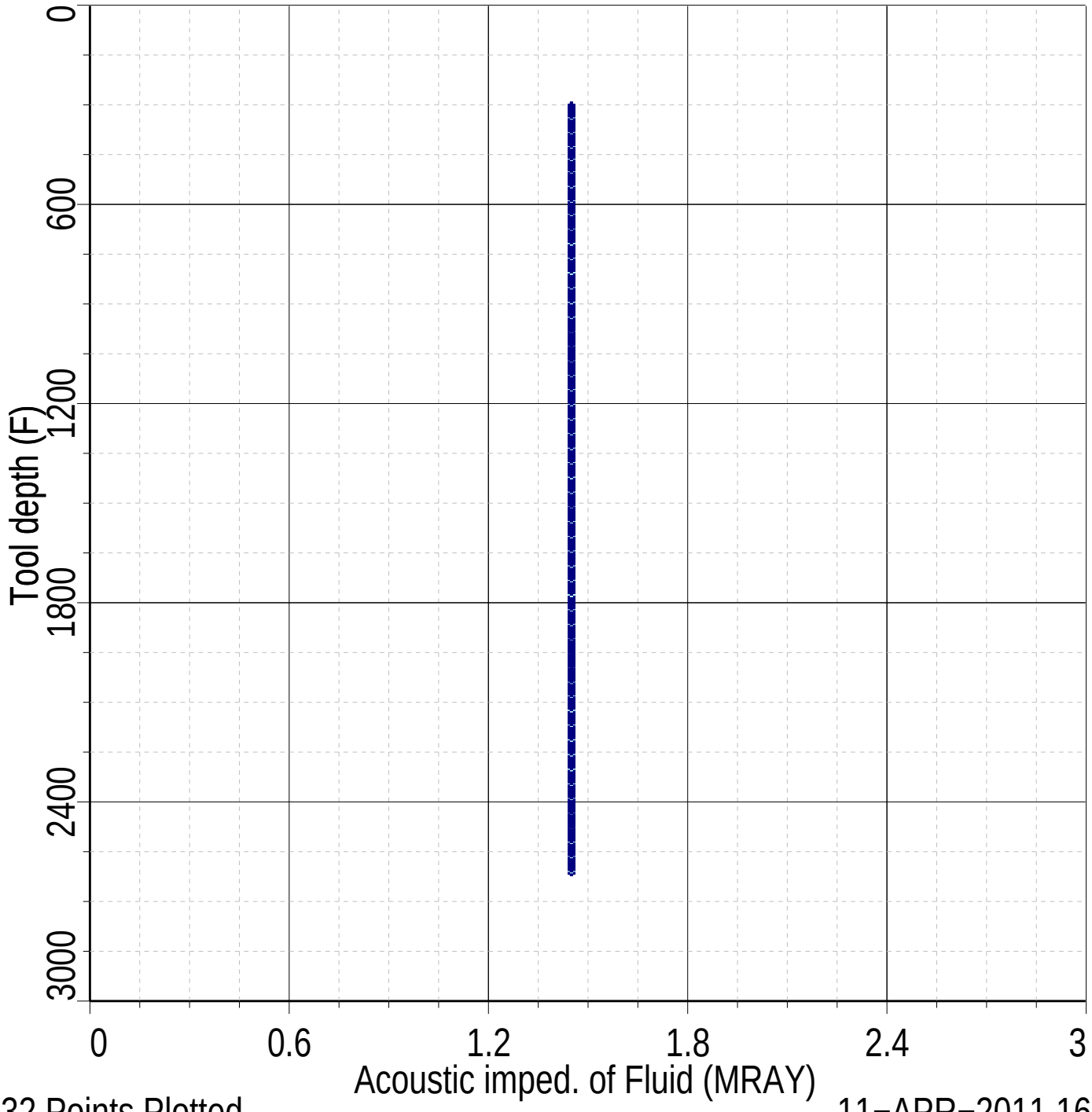
11−APR−2011 16:27

IBC Inv. Fluid Z QC (−−−−

Index: 2615.5 − 300.0 FT

0.

0.5



4632 Points Plotted

11−APR−2011 16:27

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration							
Before: 11−Apr−2011 14:28							
EDTC Z−Axis Acceleration	32.19	N/A	32.44	N/A	N/A	N/A	F/S2
Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration							
Before: 10−Apr−2011 9:34							
Gamma Ray (Jig − Bkg)	151.4	N/A	151.4	N/A	N/A	13.76	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG − A/B	
Enhanced DTS Cartridge	EDTC − B	8188
Auxiliary Equipment:		
EDTC Housing	EDTH − B	8187

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration F/S2	Value
Before		32.44
	31.53 (Minimum) 32.19 (Nominal) 32.84 (Maximum)	

Before: 11−Apr−2011 14:28

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		35.04	Before		151.4	Before		165.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			137.6 (Minimum) 151.4 (Nominal) 165.1 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	

Before: 10−Apr−2011 9:34

Company: **EnCana Oil & Gas Inc.**

Schlumberger

Well: **SGU 8504D−25 F25 496 (F25)**
Field: **Story Gulch**
County: **Garfield**
State: **Colorado**

IMAGING BEHIND CASING

ISOLATION SCANNER
GAMMA RAY − CCLU