

Company: SANDIA TECHNOLOGIES, LLC

Well: NYSTA TANDEM LOT 1

Field: WILDCAT

County: ROCKLAND

State: NEW YORK

County: ROCKLAND

Field: WILDCAT

Location: LAT: 41.1036

Well: NYSTA TANDEM LOT 1

Company: SANDIA TECHNOLOGIES, LLC

ULTRA SONIC IMAGER
CEMENT EVALUATION
GAMMA RAY

LAT: 41.1036
LONG: -74.027

Elev.: K.B. 402.00 ft
G.L. 386.00 ft
D.F. 402.00 ft

Permanent Datum: _____
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

GROUND LEVEL
Elev.: 386.00 ft

16.00 ft above Perm. Datum

API Serial No.
31-087-27016-00-00

Section:

Township:
CLARKSTOWN

		Run 1	Run 2	Run 3
PVT DATA				
Oil Density				
Water Salinity		1200 ppm		
Gas Gravity				
Bo				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation		23.8 deg		
CEMENTING DATA				
Primary/Squeeze		Primary		
Casing String No				
Lead Cement Type		CLASS A		
Volume		542.75 ft3		
Density		14.2 lbm/gal		
Water Loss				
Additives		SEE REMARKS		
Tail Cement Type		CLASS A		
Volume		318.6 ft3		
Density		15.6 lbm/gal		
Water Loss				
Additives		SEE REMARKS		
Expected Cement Top		0 ft		

Logging Date	17-Oct-2011
Run Number	2F
Depth Driller	6685 ft
Schlumberger Depth	6670 ft
Bottom Log Interval	1492 ft
Top Log Interval	0 ft
Casing Fluid Type	FRESH WATER GEL
Salinity	1200 ppm
Density	9.4 lbm/gal
Fluid Level	0 ft
BIT/CASING/TUBING STRING	
Bit Size	8.500 in
From	6670 ft
To	1492 ft
Casing/Tubing Size	9.625 in
Weight	36 lbm/ft
Grade	J55
From	1492 ft
To	0 ft
Maximum Recorded Temperatures	108 degF
Logger On Bottom	17-Oct-2011
Unit Number	7052
Recorded By	TIM STOEVEY
Witnessed By	B.ARMSTRONG / D. COLLINS

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	
Unit Number	
Recorded By	
Witnessed By	

DEPTH SUMMARY LISTING

Date Created: 15-OCT-2011 13:28:23

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-39P LXS
Serial Number:	6420	Serial Number:	1095	Serial Number:	7052
Calibration Date:	18-JUL-2011	Calibration Date:	04-OCT-2011	Length:	9800 FT
Calibrator Serial Number:		Calibrator Serial Number:	108244	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	7-39P LXS	Number of Calibration Points:	10		
Wheel Correction 1:	-6	Calibration RMS:	14		
Wheel Correction 2:	-4	Calibration Peak Error:	24		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	1
Reference Log Date:	31-AUG-2011
Subsequent Trip Down Log Correction:	

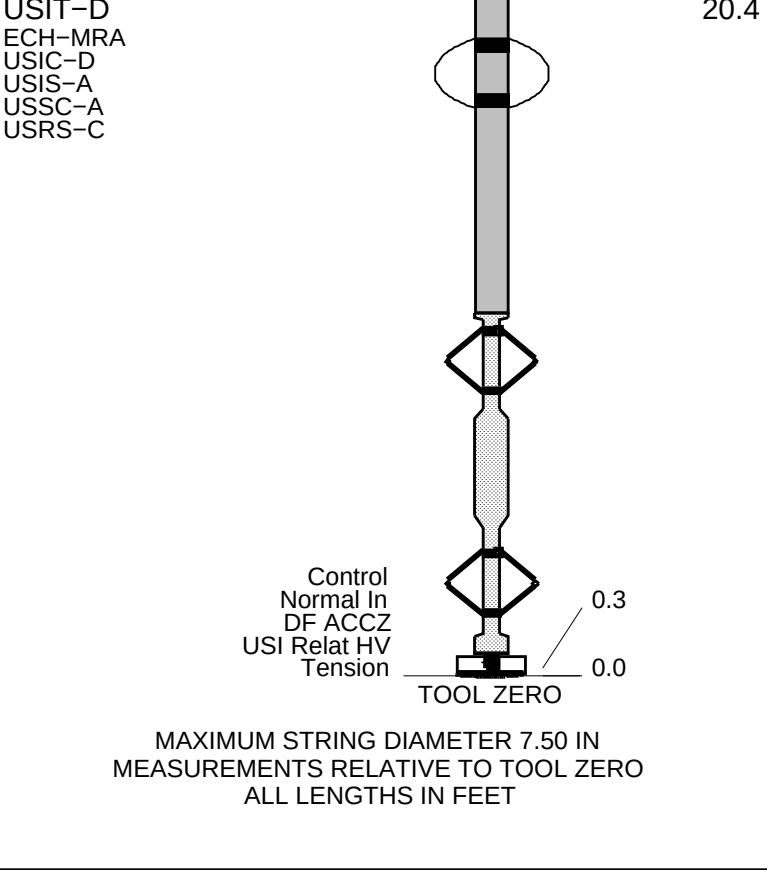
Depth Control Remarks

1. IDW USED AS PRIMARY DEPTH CONTROL
2. Z CHART USED AS SECONDARY DEPTH CONTROL
- 3.
- 4.
- 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: RUN 2A: PEX-AIT	OS1:
OS2: RUN 2B: FMI-MSIP	OS2:
OS3: RUN 2C: CMR-ECS-HNGS	OS3:
OS4: RUN 2D: USIT-DSLT	OS4:
OS5: RUN 2E: VSP SEISMIC	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
THANK YOU FOR CHOOSING SCHLUMBERGER!!!	
LEAD ADDITIVES: 10% GYPSUM-60, 4% BENTONITE, 2% CALCIUM CHLORIDE 0.75% AG-350	
0.125 LB/SK SUPER FLAKE, 0.25% AIR OUT. 325 SKS. 1.67 FT3/SK	
TAIL ADDITIVES: 2% CALCIUM CHLORIDE, 0.125 LB/SK SUPER FLAKE, 0.25% AIR-OUT	
270 SKS. 1.18 FT3/SK	



MAIN PASS 5"=100'

MAXIS Field Log

Company: SANDIA TECHNOLOGIES, LLC Well: NYSTA TANDEM LOT 1

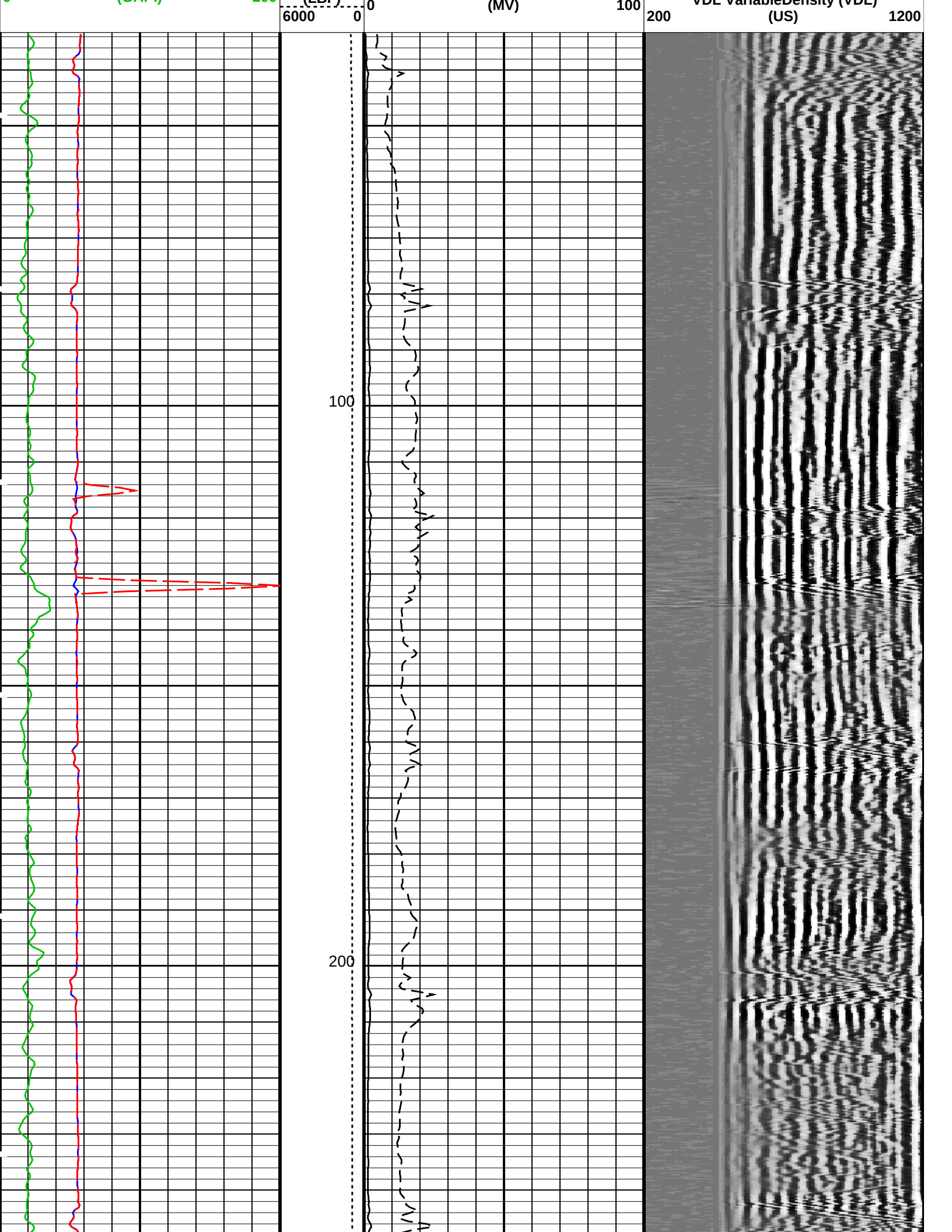
Input DLIS Files						
DEFAULT	USI_SONIC_107LUP	FN:142	PRODUCER	17-Oct-2011 17:18	1490.0 FT	32.6 FT
Output DLIS Files						
DEFAULT	USI_SONIC_114PUP	FN:152	PRODUCER	17-Oct-2011 18:12	1490.0 FT	33.0 FT

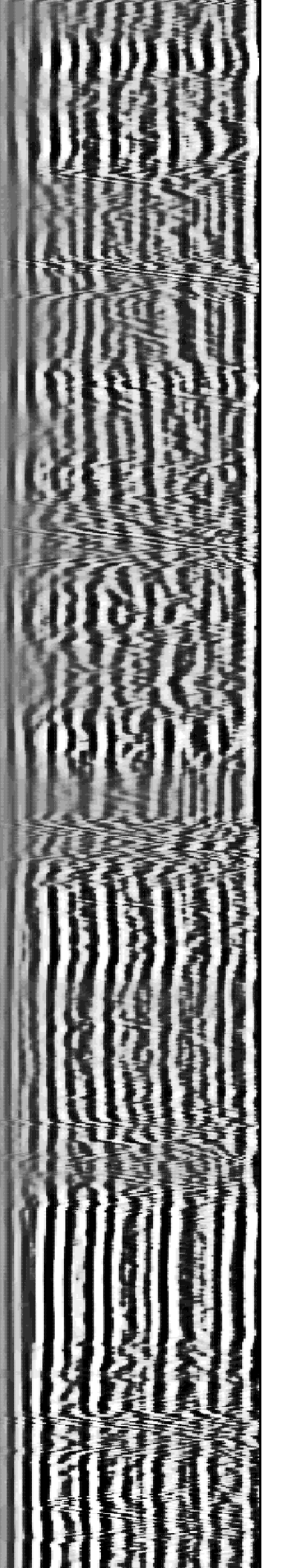
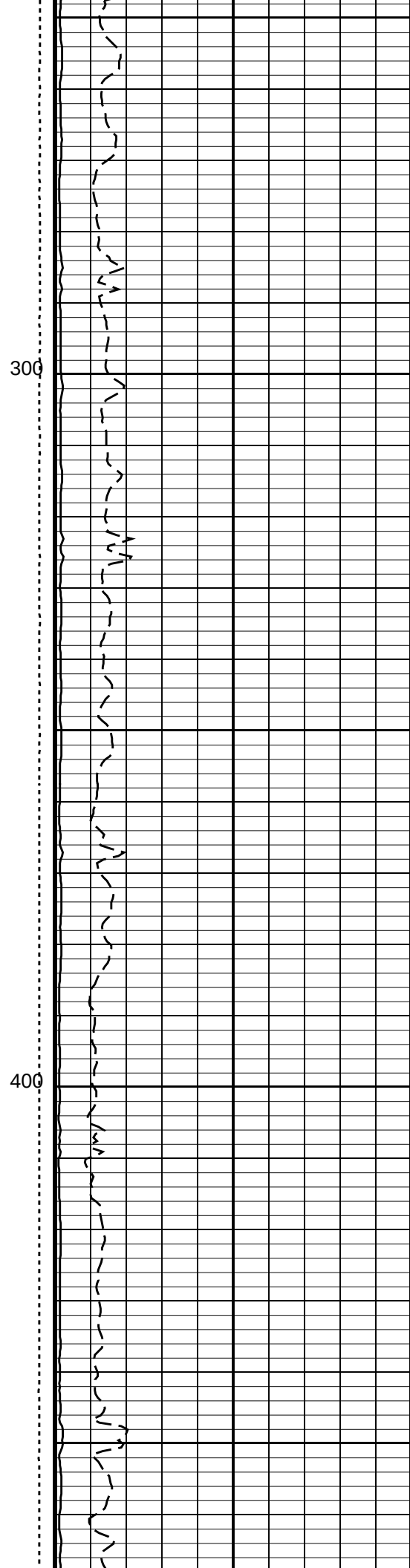
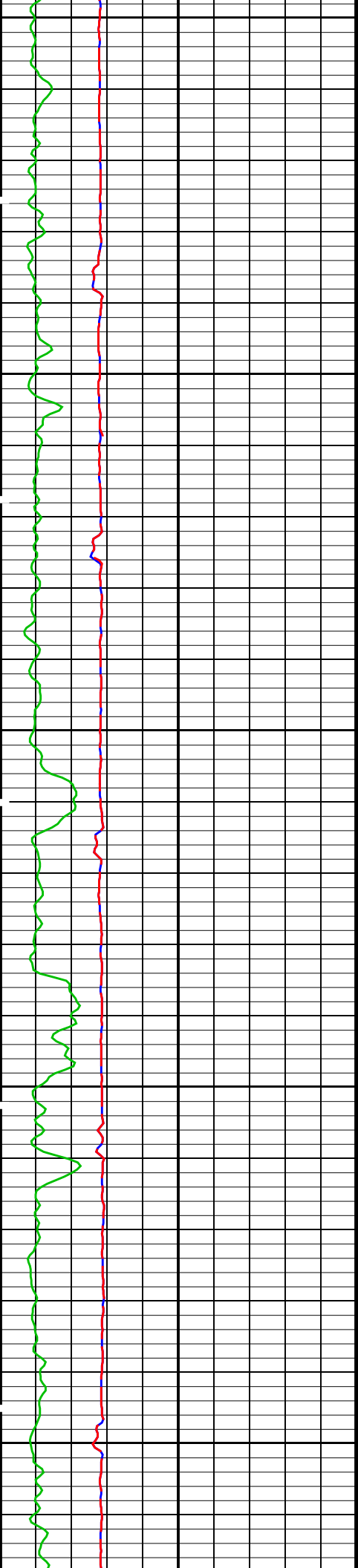
OP System Version: 19C0-187			
USIT-D	19C0-187	DSLT-H	19C0-187
EDTC-B	19C0-187		

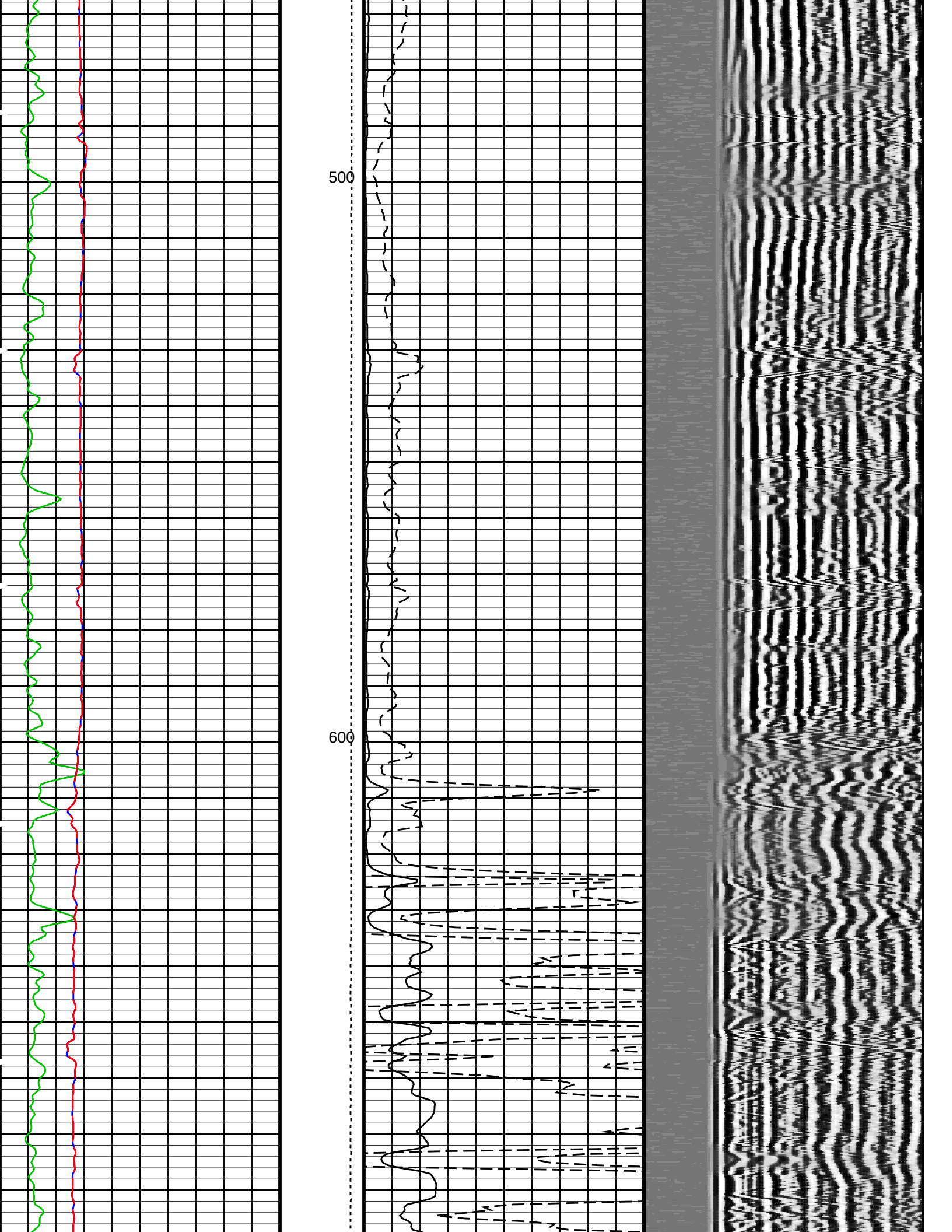
PIP SUMMARY

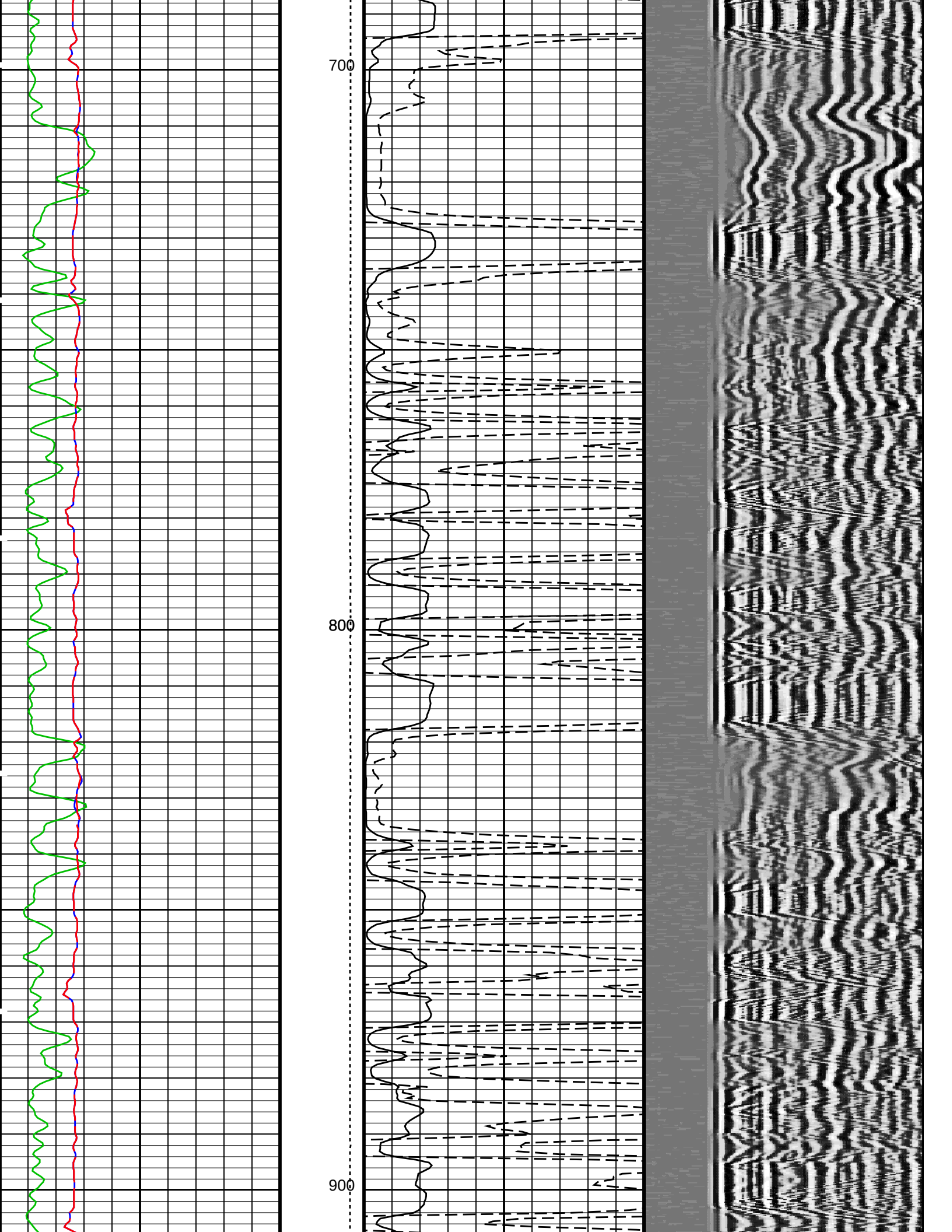
☒ Time Mark Every 60 S

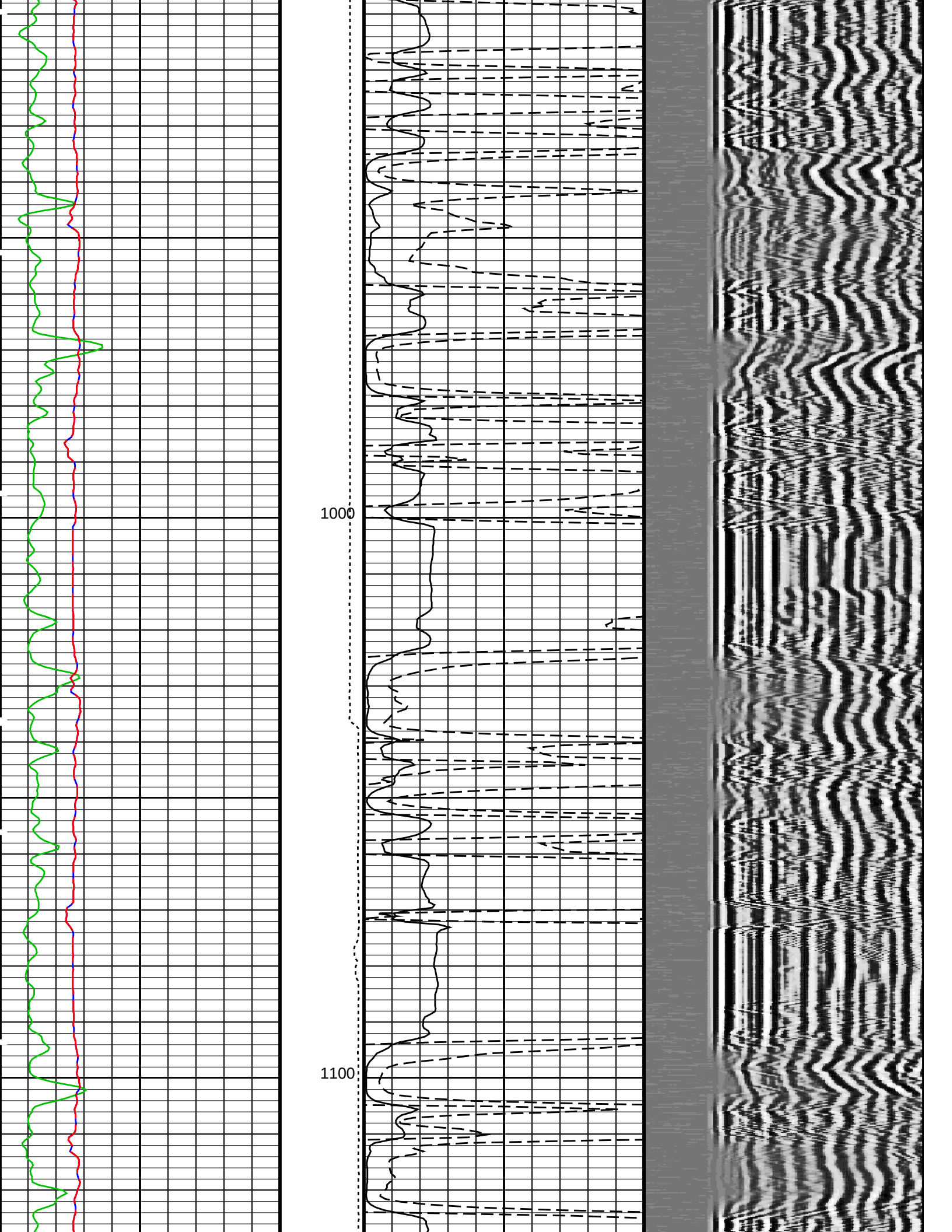
Transit Time (Sliding Gate) (TTSL) 400 (US) 200		Fluid Compensated CBL Amplitude (CBLF) 0 (MV) 10	
Transit Time (TT) 400 (US) 200			
Gamma Ray (GR_EDTC) 0 (GAPI) 200	Tension (TENS) (LBE)	Fluid Compensated CBL Amplitude (CBLF)	Min Amplitude Max VDL Variable Density (VDL)

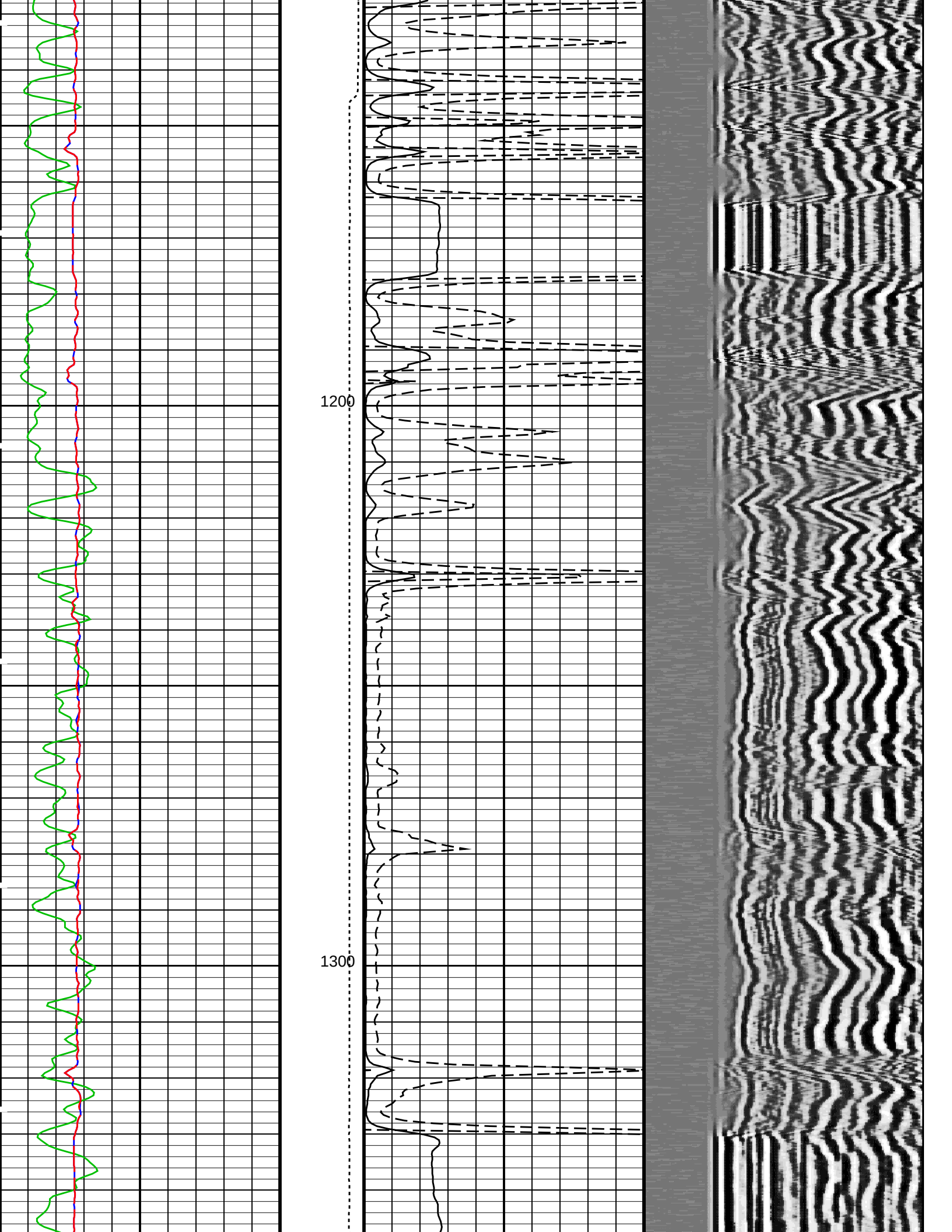


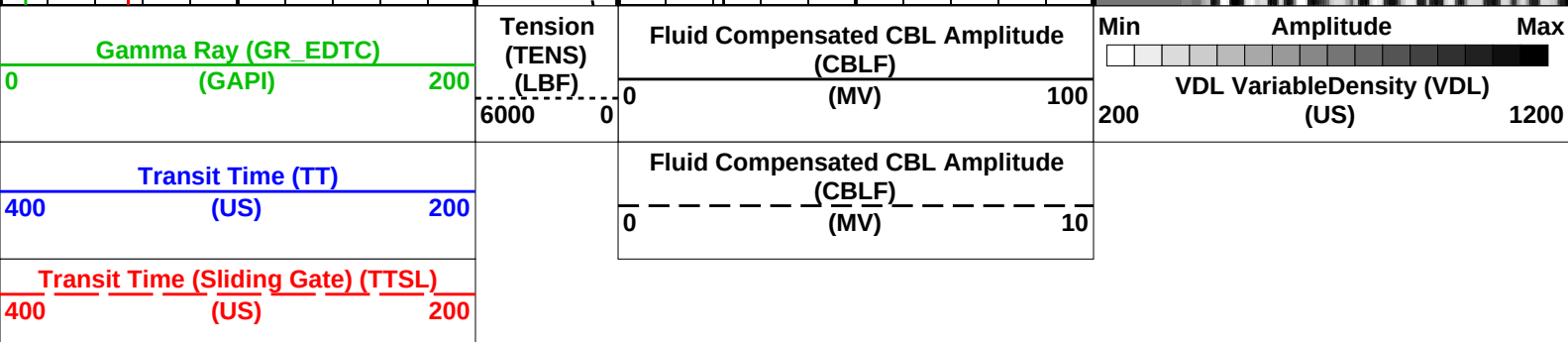
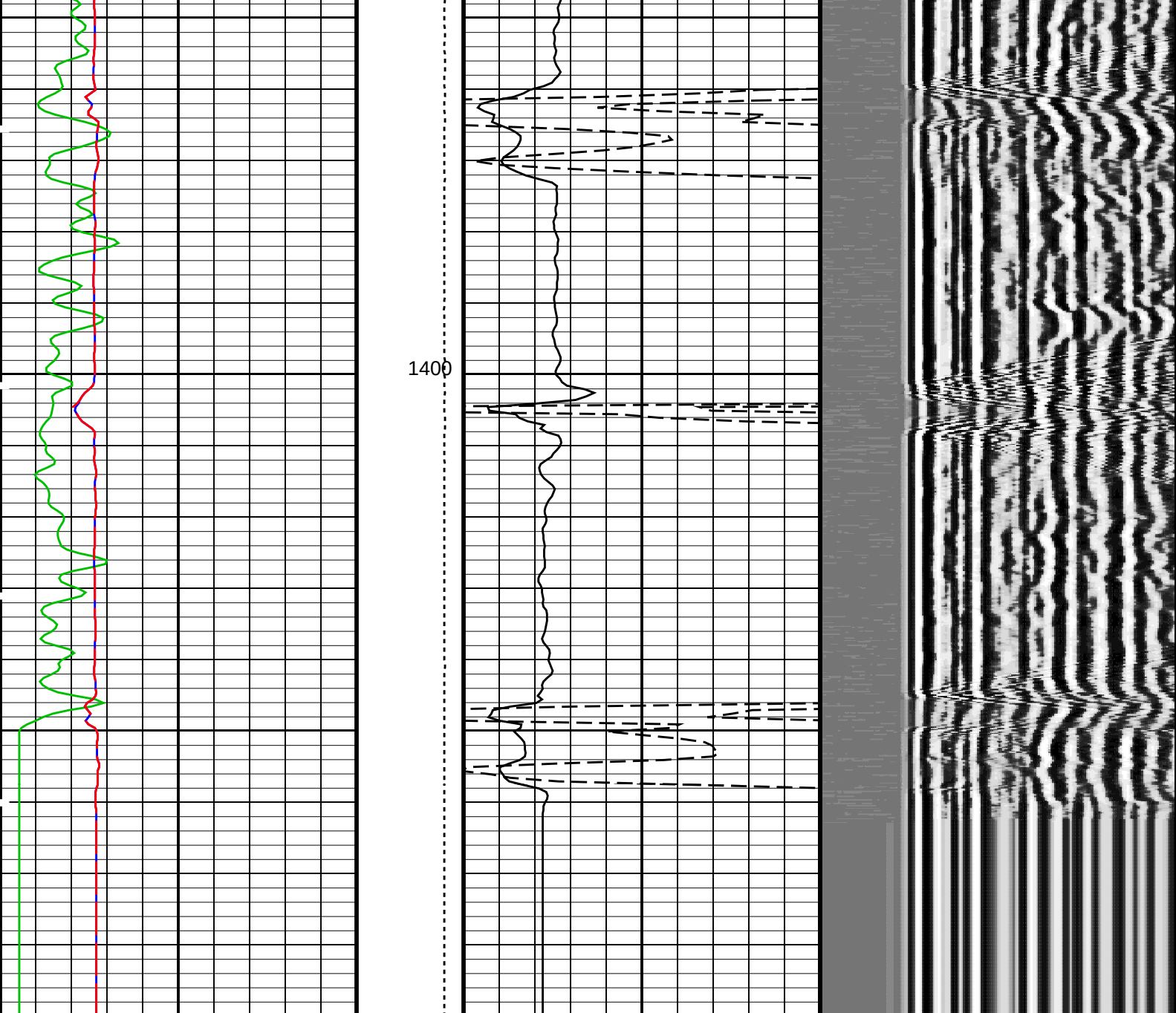












PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 17-Oct-2011 18:12

OP System Version: 19C0-187

USIT-D 19C0-187
EDTC-B 19C0-187

DSLT-H 19C0-187

Sonde Type	Not Recorded
Sonde Serial Number	Not Recorded (0)
Casing Size (CSIZ)	9.62500 IN
Casing Weight (CWEI)	36.0 LB/F
Expected CBL Amplitude in Free Pipe Section (CBRA)	52.0 MV
Minimum Sonic Amplitude (MSA : 100% Cement)	1.16796 MV
Minimum Sonic Amplitude (MSA : 80% Cement)	2.49542 MV
Date of Master Calibration	Not Recorded
CBL Correction Factor (Master Calibration)	2.50000
Depth of Before Calibration (BDEP)	Not Recorded
CBL Adjustment Factor (CBAF : Before Calibration)	1.0

Parameters

DLIS Name	Description	Value	
USIT-D: Ultrasonic Imaging - D	Corrosion range maximum	0.076	IN
	Corrosion range minimum	-0.076	IN
	T^3 Processing Length for FPM	26.648	US
	DSLTL-H: Digitizing Sonic Logging Tool		
	Telemetry Mode	DSLCL_FTB	
	DSLTL Firing Mode	CBL_W	
AMSG	Auxiliary Minimum Sliding Gate	120	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	45	US
CTHI	Casing Thickness	0.363554	IN
DDEL	Digitizing Delay	0	US
DRCS	DSLTL DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLCL Telemetry Frame Size	236	
DWCO	Digitizing Word Count	120	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.825949	
GAI	Manual Gain	40	
MAHTR	Manual High Threshold Reference	40	
MATT	Maximum Attenuation	11.7722	DB/F
MGAI	Maximum Gain	1000	
MNHTR	Minimum High Threshold Reference	30	
NMSG	Near Minimum Sliding Gate	328	US
NMXG	Near Maximum Sliding Gate	750	US
RATE	Firing Rate	R7	
SFAF	Sonic Formation Attenuation Factor	0	DB/F
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGDT	Sliding Gate Delta-T	57	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
VDLG	VDL Manual Gain	5	
WAGC	Waveform AGC Allow/Disallow	OFF	
WMOD	Waveform Firing Mode	FULL	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	USI_SONIC_107LUP	FN:142	PRODUCER	17-Oct-2011 17:18	1490.0 FT	32.6 FT
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Output DLIS Files

DEFAULT	USI_SONIC_114PUP	FN:152	PRODUCER	17-Oct-2011 18:12
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Input DLIS Files						
DEFAULT	USI_SONIC_107LUP	FN:142	PRODUCER	17-Oct-2011 17:18	1490.0 FT	32.6 FT
Output DLIS Files						
DEFAULT	USI_SONIC_114PUP	FN:152	PRODUCER	17-Oct-2011 18:12	1490.0 FT	33.0 FT

OP System Version: 19C0-187			
USIT-D	19C0-187	DSLT-H	19C0-187
EDTC-B	19C0-187		

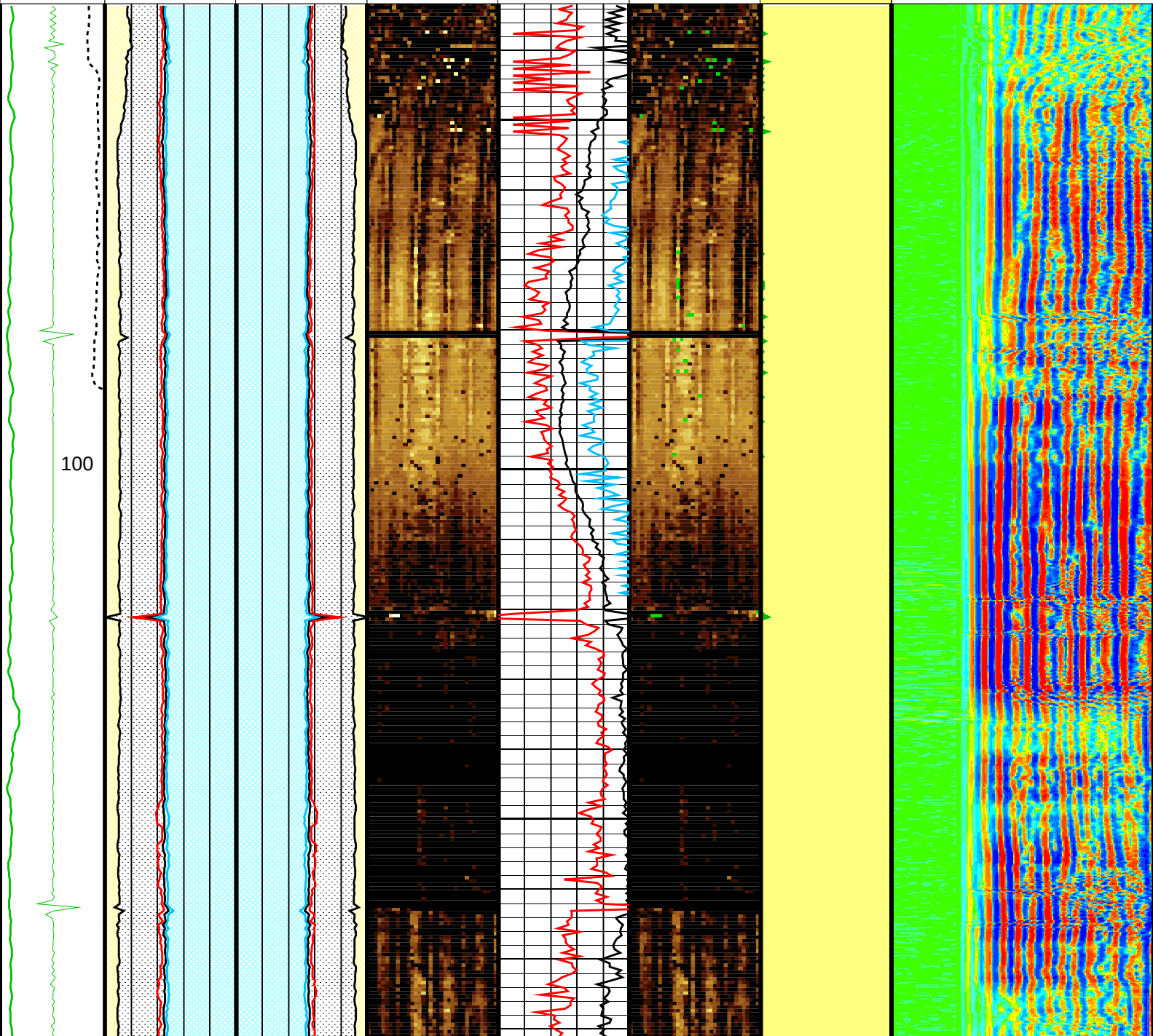
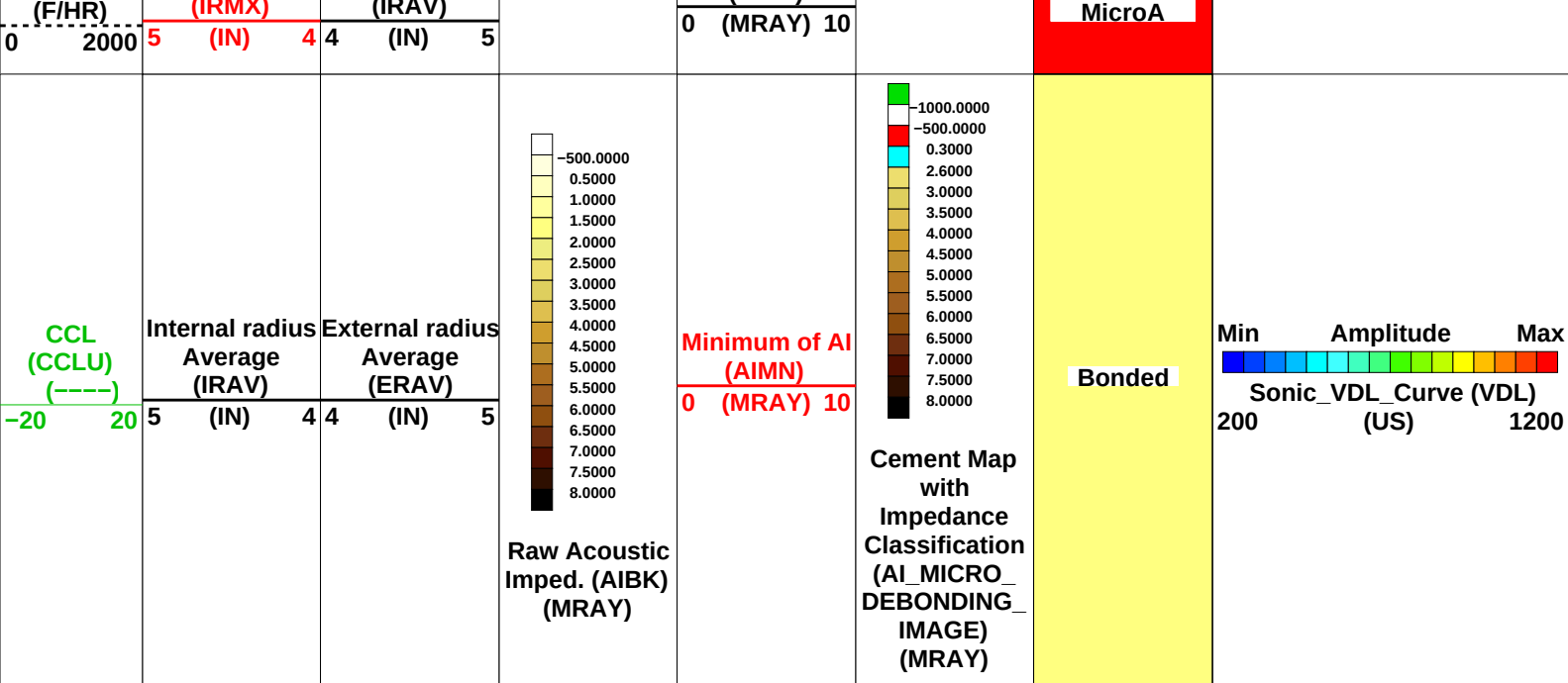
Zoning of Mud Parameters						
Depth		Fluid Velocity (DFVL)		Acoustic Impedance (ZMUD)		
1500.00		202.07		1.70		
1000.00		202.94		1.69		
500.00		203.83		1.68		

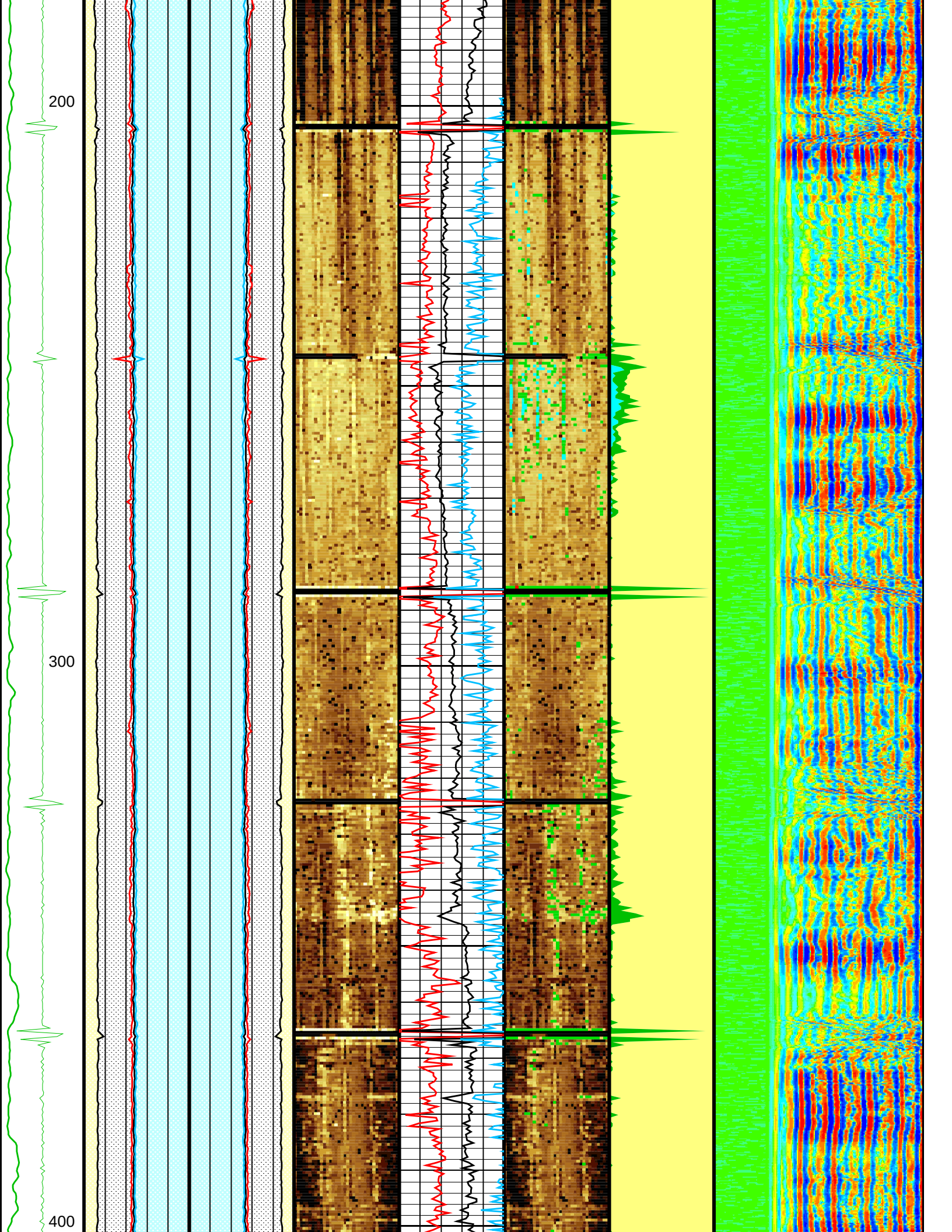
Gamma Ray (GR_EDTC) (GAPI)										
0 200										
Tool/Tot. Drag From D4T to STIA										
Cable Drag From D4T to STIT	Min of Internal radius (IRMN)		Min of Internal radius (IRMN)							
	5 (IN)	4	4 (IN)	5						
Stuck Stretch (STIT)	External radius Average (ERAV)		Internal radius Maximum (IRMX)		Maximum of AI (AIMX)					
0 (F) 50	5 (IN)	4	4 (IN)	5	0 (MRAY)	10				
Cable Speed (CS)	Internal radius Maximum (IRMN)		Internal radius Average (IRAV)		Average of AI (AIAV)					

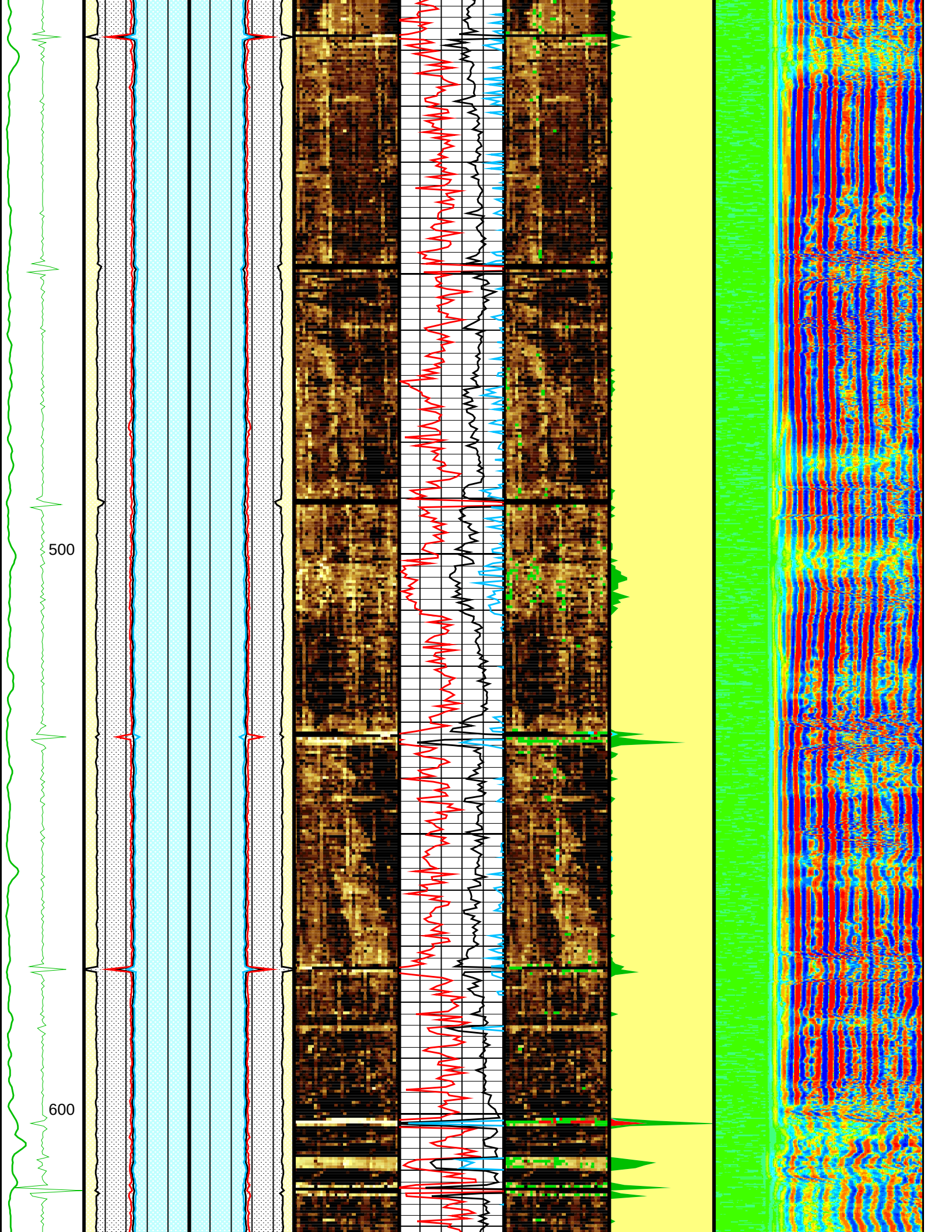
Micro-debonding

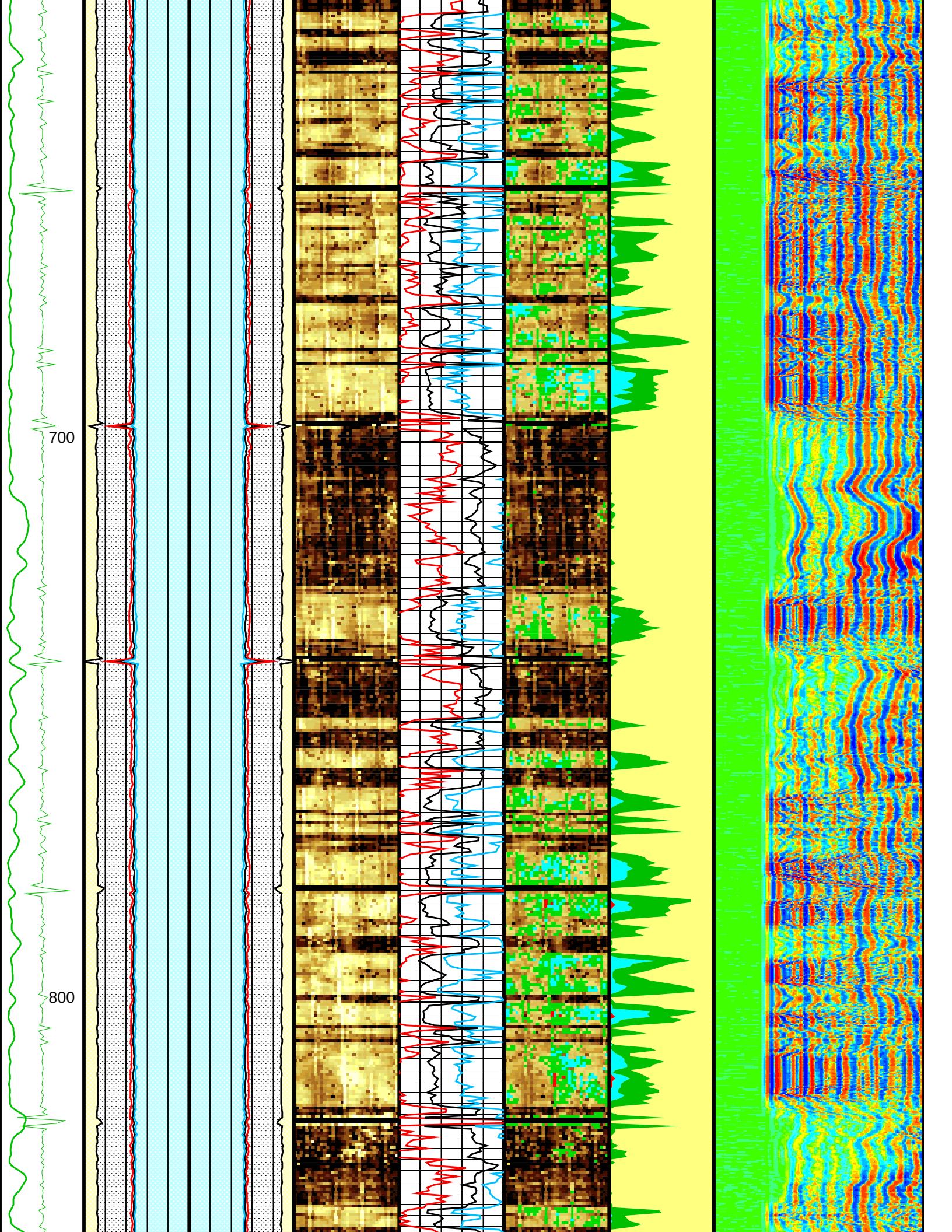
Liquid

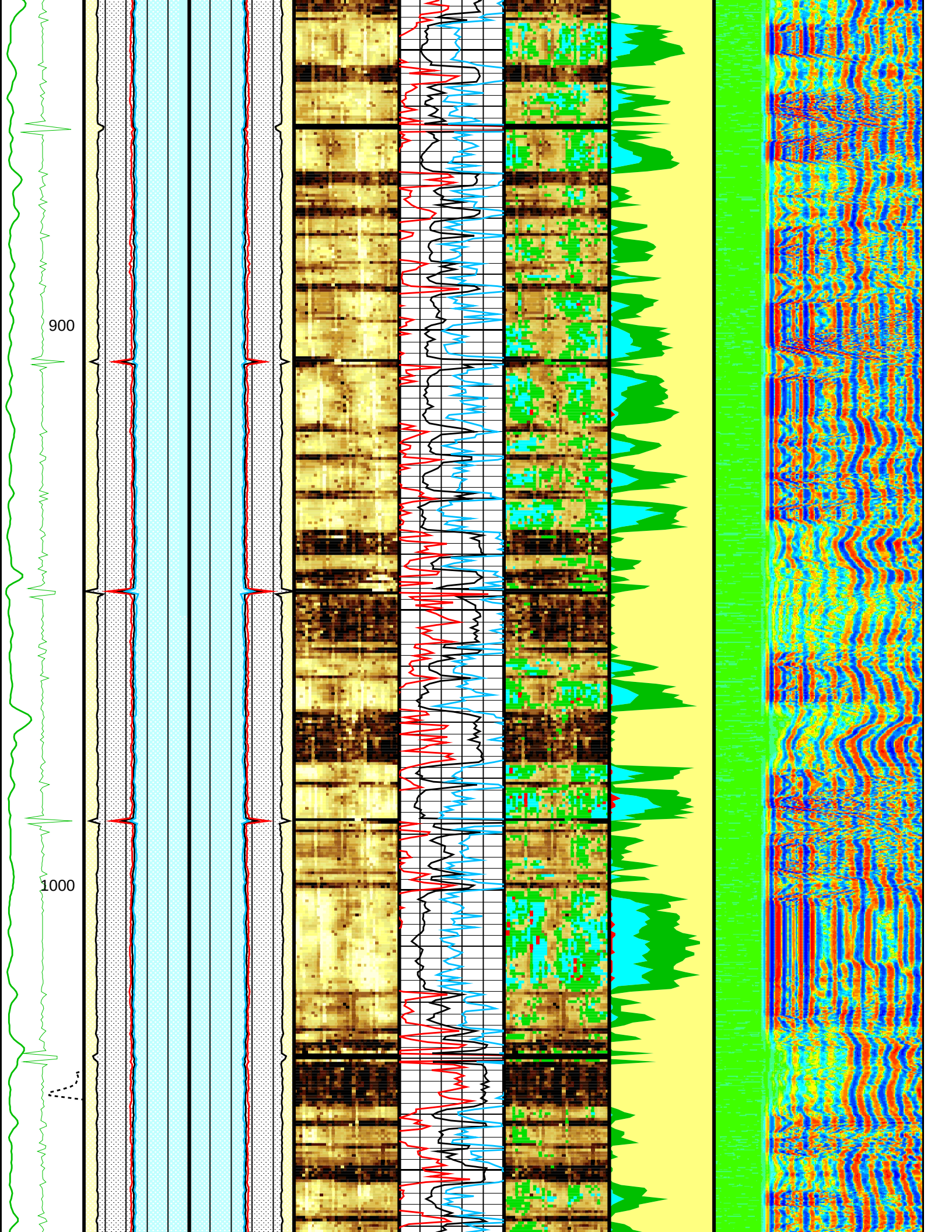
Gas or Dry

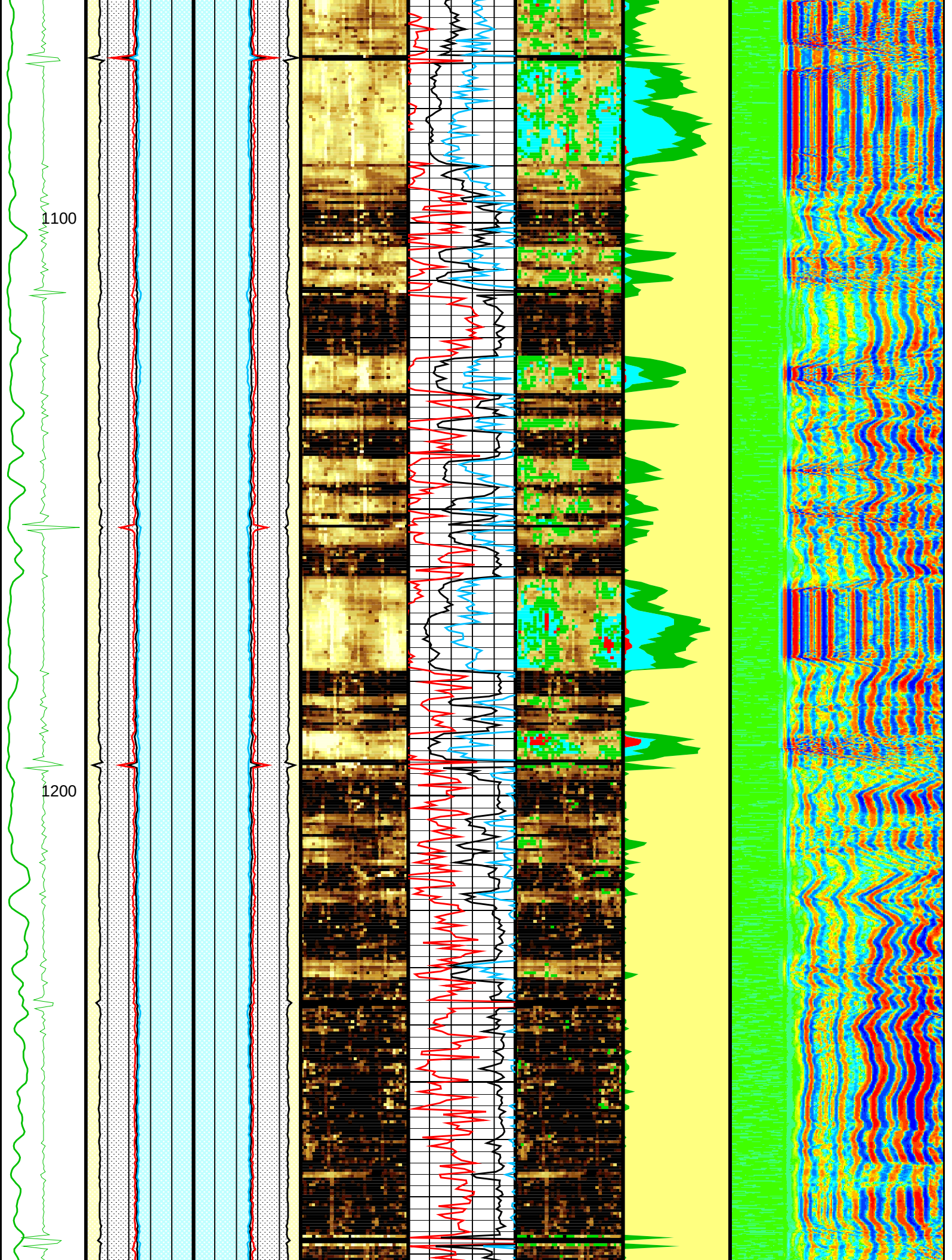


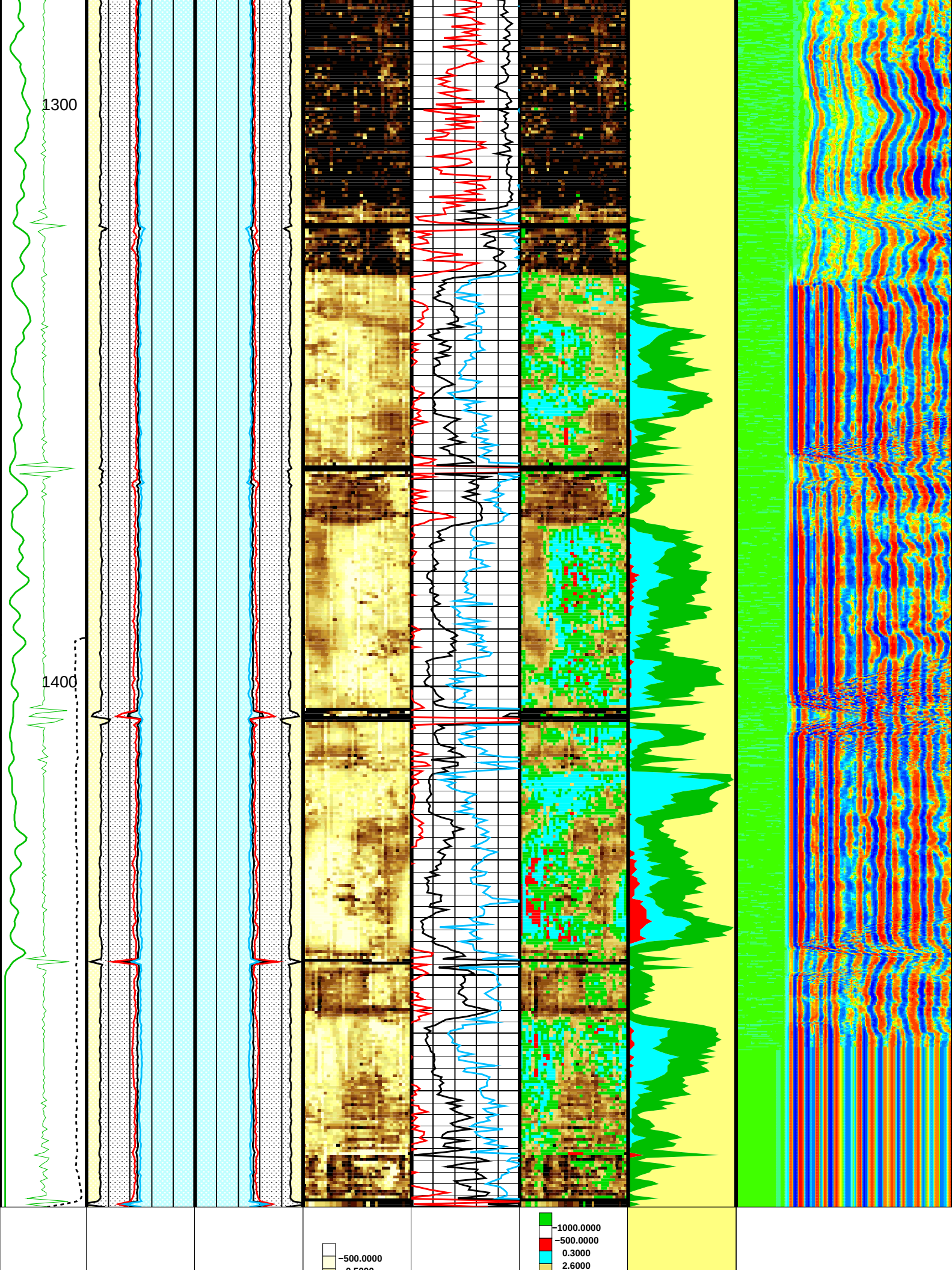












AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	9.625	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	8.921	IN
DFVL	Default Fluid Velocity	202	US/F
DOT	Diameter of Transducer Sensor	4.874	IN
EMXV	EMEX Voltage	100	V
FDII	FPM Data Interpolation Interval	0	FT
IMAR	Image Rotation	OFF	
MW	Mud Weight	9.4	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro-debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
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
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	10DEG_6IN_60U_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	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
DSLTH: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSLTH_FTB	
	DSLTH Firing Mode	CBL_W	
DDEL	Digitizing Delay	0	US
DRCS	DSLTH DLIS Recording Size	120	
DWCO	Digitizing Word Count	120	
VDLG	VDL Manual Gain	5	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	6885.00	FT
TDL	Total Depth - Logger	6870.00	FT
System and Miscellaneous			
CWEI	Casing Weight	36.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	USI_SONIC_107LUP	FN:142	PRODUCER	17-Oct-2011 17:18	1490.0 FT	32.6 FT
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Output DLIS Files

DEFAULT	USI_SONIC_114PUP	FN:152	PRODUCER	17-Oct-2011 18:12
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Schlumberger

REPEAT PASS 5"=100'

MAXIS Field Log

Company: SANDIA TECHNOLOGIES, LLC

Well: NYSTA TANDEM LOT 1

Input DLIS Files

DEFAULT	USI_SONIC_106LUP	FN:140	PRODUCER	17-Oct-2011 17:02	1490.0 FT	1182.0 FT
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Output DLIS Files

DEFAULT USI_SONIC_113PUP FN:151 PRODUCER 17-Oct-2011 18:11 1490.0 FT 1182.0 FT

OP System Version: 19C0-187

USIT-D 19C0-187 DSIT-H 19C0-187
EDTC-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S

Transit Time (Sliding Gate) (TTSL)
400 (US) 200

Transit Time (TT)
400 (US) 200

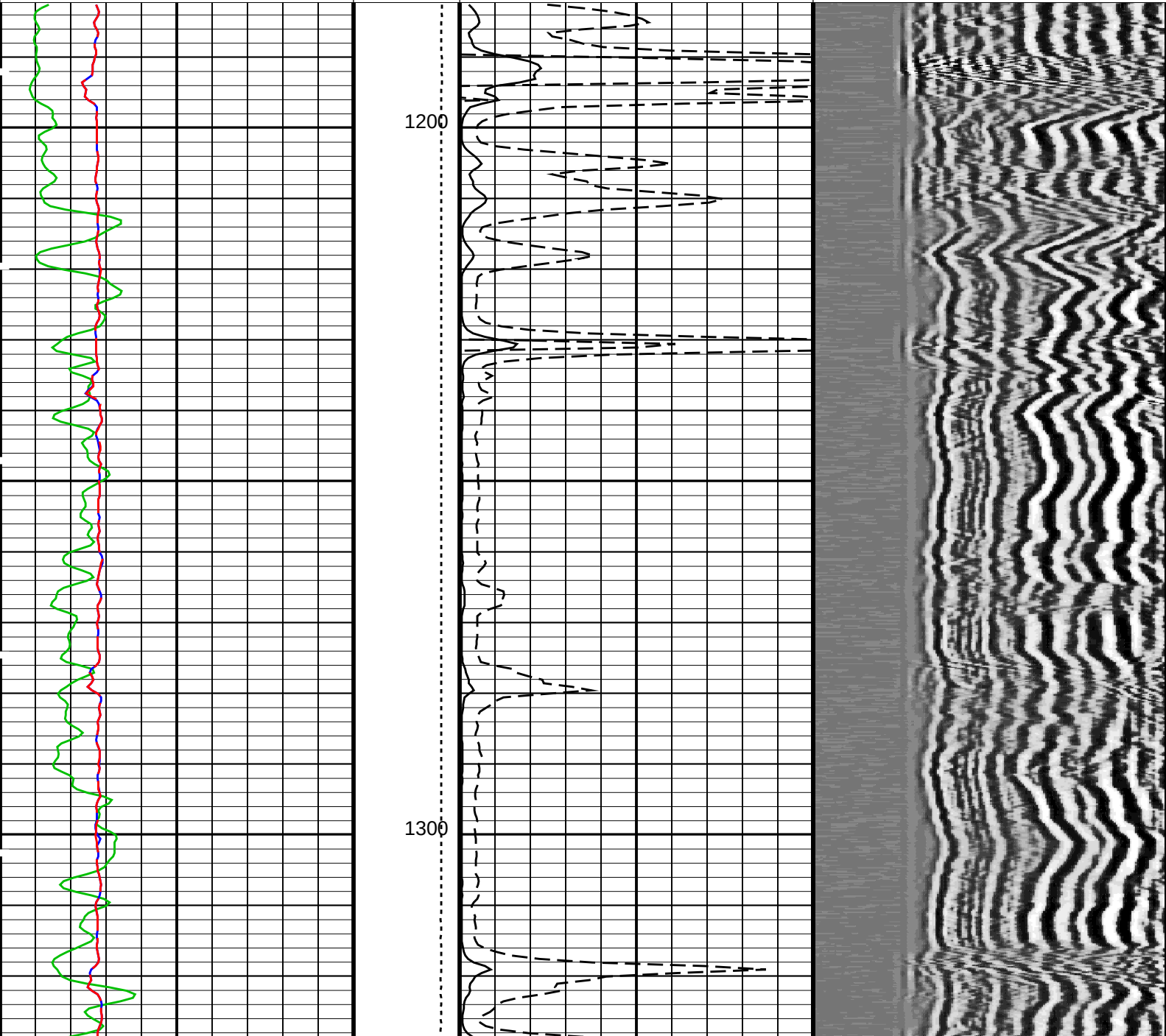
Gamma Ray (GR_EDTC)
0 (GAPI) 200

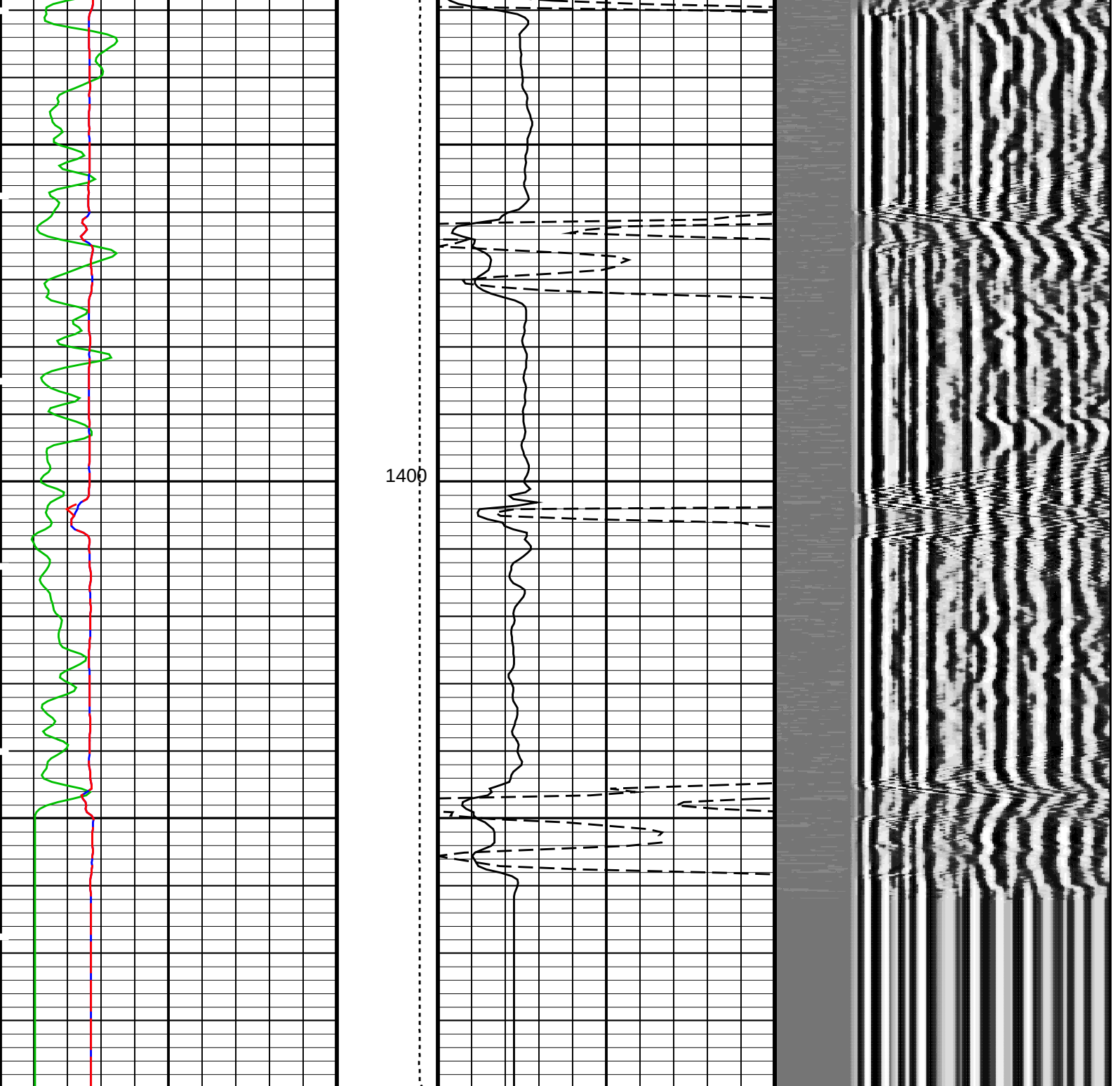
Fluid Compensated CBL Amplitude
(CBLF)
0 (MV) 10

Tension
(TENS)
(LBF) 6000 0

Fluid Compensated CBL Amplitude
(CBLF)
0 (MV) 100

Min Amplitude Max
VDL VariableDensity (VDL)
200 (US) 1200





Gamma Ray (GR_EDTC) (GAPI) 0 200	Tension (TENS) (LBF) 6000 0	Fluid Compensated CBL Amplitude (CBLF) (MV) 0 100	Min Amplitude Max VDL Variable Density (VDL) (US) 200 1200
Transit Time (TT) (US) 400 200		Fluid Compensated CBL Amplitude (CBLF) (MV) 0 10	
Transit Time (Sliding Gate) (TTSL) (US) 400 200			

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 17-Oct-2011 18:11

OP System Version: 19C0-187

USIT-D EDTC-B	19C0-187 19C0-187	DSLT-H	19C0-187
### Information for DSLT Sonde Status and Casing Features ###			
Sonde Type	Not Recorded		
Sonde Serial Number	Not Recorded (0)		
Casing Size (CSIZ)	9.62500 IN		
Casing Weight (CWEI)	36.0 LB/F		
Expected CBL Amplitude in Free Pipe Section (CBRA)	52.0 MV		
Minimum Sonic Amplitude (MSA : 100% Cement)	1.16796 MV		
Minimum Sonic Amplitude (MSA : 80% Cement)	2.49542 MV		
Date of Master Calibration	Not Recorded		
CBL Correction Factor (Master Calibration)	2.50000		
Depth of Before Calibration (BDEP)	Not Recorded		
CBL Adjustment Factor (CBAF : Before Calibration)	1.0		

Parameters			
DLIS Name	Description	Value	
USIT-D: Ultrasonic Imaging – D			
	Corrosion range maximum	0.076	IN
	Corrosion range minimum	–0.076	IN
	T^3 Processing Length for FPM	26.648	US
DSLT-H: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSL_C_FTB	
	DSLT Firing Mode	CBL_W	
AMSG	Auxiliary Minimum Sliding Gate	120	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	45	US
CTHI	Casing Thickness	0.363554	IN
DDEL	Digitizing Delay	0	US
DRCS	DSLT DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTF	Delta-T Fluid	189	US/F
DTFS	DSL_C Telemetry Frame Size	236	
DWCO	Digitizing Word Count	120	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.825949	
GAI	Manual Gain	40	
MAHTR	Manual High Threshold Reference	40	
MATT	Maximum Attenuation	11.7722	DB/F
MGAI	Maximum Gain	1000	
MNHTR	Minimum High Threshold Reference	30	
NMSG	Near Minimum Sliding Gate	328	US
NMXG	Near Maximum Sliding Gate	750	US
RATE	Firing Rate	R7	
SFAF	Sonic Formation Attenuation Factor	0	DB/F
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGDT	Sliding Gate Delta-T	57	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
VDLG	VDL Manual Gain	5	
WAGC	Waveform AGC Allow/Disallow	OFF	
WMOD	Waveform Firing Mode	FULL	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	

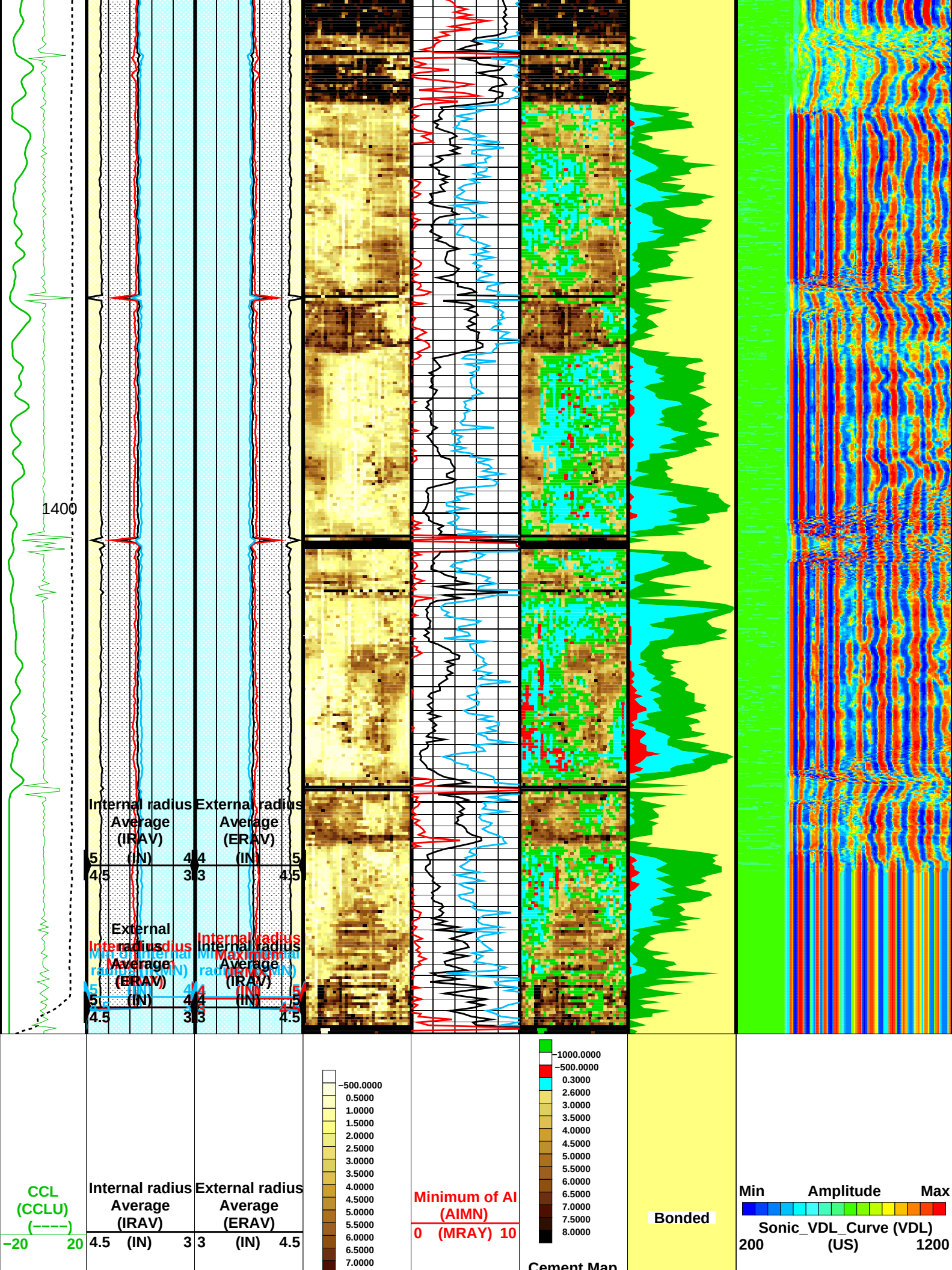
Input DLIS Files						
DEFAULT	USI_SONIC_106LUP	FN:140	PRODUCER	17-Oct-2011 17:02	1490.0 FT	1182.0 FT

Output DLIS Files					
DEFAULT	USI_SONIC_113PUP	FN:151	PRODUCER	17-Oct-2011 18:11	

Company: SANDIA TECHNOLOGIES, LLC				Well: NYSTA TANDEM LOT 1		
Input DLIS Files						
DEFAULT	USI_SONIC_106LUP	FN:140	PRODUCER	17-Oct-2011 17:02	1490.0 FT	1182.0 FT
Output DLIS Files						
DEFAULT	USI_SONIC_113PUP	FN:151	PRODUCER	17-Oct-2011 18:11	1490.0 FT	1182.0 FT
OP System Version: 19C0-187						
USIT-D	19C0-187	DSLT-H		19C0-187		
EDTC-B	19C0-187					

Zoning of Mud Parameters		
Depth	Fluid Velocity (DFVL)	Acoustic Impedance (ZMUD)
1500.00	202.07	1.70
1000.00	202.94	1.69
500.00	203.83	1.68

Gamma Ray (GR_EDTC) (GAPI)				
0 200				
Tool/Tot. Drag From D4T to STIA				
Cable Drag From D4T to STIT	Min of Internal radius (IRMN)	Min of Internal radius (IRMN)		
	5 (IN)	4 4 (IN)	5	
Stuck Stretch	External radius	Internal radius Maximum	Maximum of AI	Micro-debonding



			7.5000 8.0000		Cement map with Impedance Classification (AI_MICRO_DEBONDING_IMAGE) (MRAY)	
Cable Speed (CS) (F/HR) 02000	Internal radius Maximum (IRMX) 4.5 (IN) 3	Internal radius Average (IRAV) 3 (IN) 4.5		Average of AI (AIAV) 0 (MRAY) 10		Gas or Dry MicroA
Stuck Stretch (STIT) 0 (F) 50	External radius Average (ERAV) 4.5 (IN) 3	Internal radius Maximum (IRMX) 3 (IN) 4.5		Maximum of AI (AIMX) 0 (MRAY) 10		Liquid
Cable Drag From D4T to STIT 0200	Min of Internal radius (IRMN) 4.5 (IN) 3	Min of Internal radius (IRMN) 3 (IN) 4.5				Micro-debonding
Tool/Tot. Drag From D4T to STIA 0200						
Gamma Ray (GR_EDTC) (GAPI) 0200						

Format: USI_VDLCement
 Vertical Scale: 5" per 100'
 Graphics File Created: 17-Oct-2011 18:11

OP System Version: 19C0-187			
USIT-D	19C0-187	DSLT-H	19C0-187
EDTC-B	19C0-187		

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			
	Corrosion range maximum	0.076	IN
	Corrosion range minimum	–0.076	IN
	T^3 Processing Length for FPM	26.648	US
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	100	V
FDII	FPM Data Interpolation Interval	0	FT
IMAR	Image Rotation	OFF	
MW	Mud Weight	9.4	LB/G

MW	Mud Weight	9.4	LB/G
RCD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro-debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
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
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	10DEG_6IN_60U_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	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
DSLTH: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSLTH_FTB	
	DSLTH Firing Mode	CBL_W	
DDEL	Digitizing Delay	0	US
DRCS	DSLTH DLIS Recording Size	120	
DWCO	Digitizing Word Count	120	
VDLG	VDL Manual Gain	5	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	6885.00	FT
TDL	Total Depth - Logger	6870.00	FT
System and Miscellaneous			
CWEI	Casing Weight	36.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	USI_SONIC_106LUP	FN:140	PRODUCER	17-Oct-2011 17:02	1490.0 FT	1182.0 FT
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Output DLIS Files

DEFAULT	USI_SONIC_113PUP	FN:151	PRODUCER	17-Oct-2011 18:11
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Schlumberger

CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration							
Before: 15-Oct-2011 18:41							
EDTC Z-Axis Acceleration	32.19	N/A	31.96	N/A	N/A	N/A	F/S2
Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration							
Before: 14-Oct-2011 12:27							
Gamma Ray (Jig - Bkg)	145.5	N/A	145.5	N/A	N/A	13.22	GAPI
Gamma Ray (Calibrated)	160.0	N/A	160.0	N/A	N/A	15.00	GAPI

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

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

Auxiliary Equipment:

EDTC Housing

EDTH – B

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration F/S2		Value
Before			31.96
31.53 (Minimum)		32.19 (Nominal)	32.84 (Maximum)
Before: 15-Oct-2011 18:41			

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			51.68	Before			145.5	Before			160.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		132.2 (Minimum)	145.5 (Nominal)	158.7 (Maximum)		145.0 (Minimum)	160.0 (Nominal)	175.0 (Maximum)
Before: 14-Oct-2011 12:27											

Company: **SANDIA TECHNOLOGIES, LLC****Schlumberger**Well: **NYSTA TANDEM LOT 1**Field: **WILDCAT**County: **ROCKLAND**State: **NEW YORK**ULTRA SONIC IMAGER
CEMENT EVALUATION
GAMMA RAY