

Company: SANDIA TECHNOLOGIES, LLC

Well: NYSTA TANDEM LOT 1

Field: WILDCAT

County: ROCKLAND

State: NEW YORK

County: ROCKLAND

Field: WILDCAT

Location: LAT: 41.1039

Well: NYSTA TANDEM LOT 1

Company: SANDIA TECHNOLOGIES, LLC

ULTRASONIC IMAGING TOOL

CEMENT MAP - BOND / VARIABLE DENSITY LOG

GAMMA RAY / CCL

LAT: 41.1039

LONG: -74.027

Elev.: K.B. 402.00 ft

G.L. 386.00 ft

D.F. 402.00 ft

Permanent Datum: GROUND LEVEL

Log Measured From: KELLY BUSHING

Drilling Measured From: KELLY BUSHING

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

Section

Township CLARKSTOWN

QUAD

Logging Date	2-Sep-2011		
Run Number	1		
Depth Driller	1528 ft		
Schlumberger Depth	595 ft		
Bottom Log Interval	590 ft		
Top Log Interval	0 ft		
Casing Fluid Type	FRESH WATER BASED MUD		
Salinity	120 ppm		
Density	9.3 lbm/gal		
Fluid Level	0 ft		
BIT/CASING/TUBING STRING			
Bit Size	17.500 in		
From			
To			
Casing/Tubing Size	13.375 in		
Weight	48 lbm/ft		
Grade			
From			
To			
Maximum Recorded Temperatures	68 degF		
Logger On Bottom	2-Sep-2011	Time	0:26
Unit Number	3039	BRADFORD	
Recorded By	TIM ZOTARA		
Witnessed By	DAN COLLINS		

PVT DATA				Run 1	Run 2	Run 3
Oil Density						
Water Salinity			120 ppm			
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						
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						

DEPTH SUMMARY LISTING

Date Created: 1-SEP-2011 17:30:17

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-39P LXS
Serial Number:	2828	Serial Number:	2929	Serial Number:	3039
Calibration Date:	1-Jan-2011	Calibration Date:	2-Aug-2011	Length:	16000 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	1095	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	7-39P LXS	Number of Calibration Points:	10		
Wheel Correction 1:	-5	Calibration RMS:	45		
Wheel Correction 2:	-4	Calibration Peak Error:	71		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	ONE
Reference Log Date:	31-Aug-2011

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES FOLLOWED
2. IDW USED AS PRIMARY DEPTH DEVICE
3. Z-CHART USED AS SECONDARY DEPTH DEVICE
- 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: PEX-AIT	OS1:
OS2: CMR-ECS-HNGS	OS2:
OS3: PPC-SSCAN-FMI	OS3:
OS4: MDT-MSCT	OS4:
OS5: CBL/VDL-USIT	OS5:

REMARKS: RUN NUMBER 1

REMARKS: RUN NUMBER 2

THANK YOU FOR CHOOSING SCHLUMBERGER

TOOLS RUN AS PER TOOL SKETCH, W/BOWSPRING & STANDOFFS ON AIT

ALL WELLSITE DATA, PERMIT, MUD REPORT, SOP PROVIDED BY CLIENT

RUN1: PEX-AIT RUN2: CMR-ECS-HNGS RUN3: PPC-SSCAN-FMI

BLIN4: MSCT BLIN5: MDT BLIN6: CBI/MDI-IUSIT

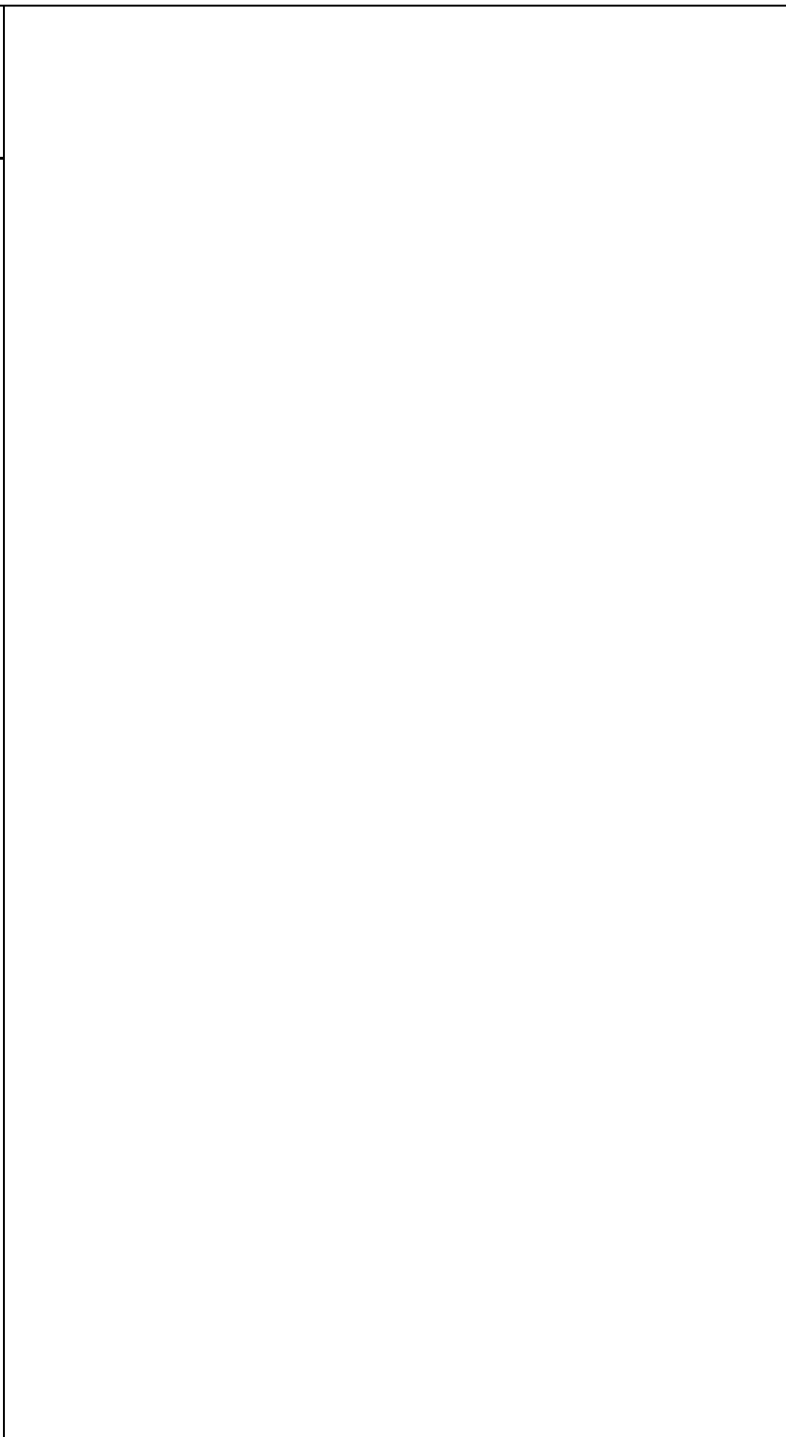
HIGH PARTICULATE MUD					
3 MAX TEMP THERMOMETERS RUN IN HEAD, PER RUN, MAX TEMP FROM HTEM.					
RUN1 USIT LOGGED AT: REPEAT & MAIN @ 1400'/HR					
CCL NORMALIZE @ GAIN=100, LOW RESPONSE					
USIT - FPM COLLECTED ON LDP, ZMUD & FVEL ZONED EVERY 50' FROM MEMORY					
D-SUB PLATE THICKNESS ON FPM = 0.295"					
LUP CASING THICKNESS * 2 + ID (12.715") = 13.375 +/- 0.1, LQC RIVER=GOOD					
EMEX=50-60, UPGA=3-7, GROUP DELAY & PEAK AMPLITUDE GOOD					
SLB CREW: THIMLAR / CANNON					

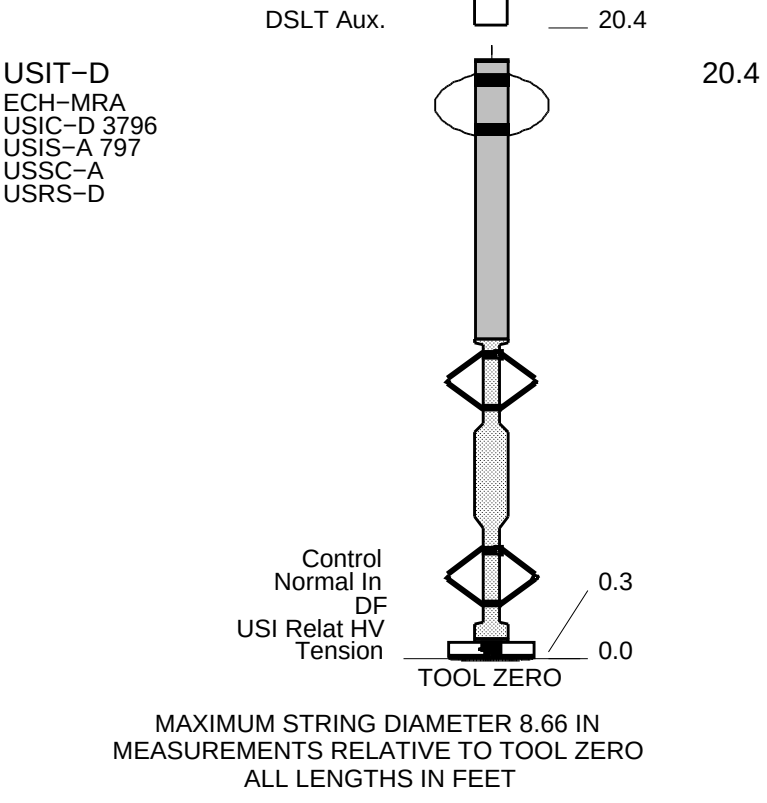
RUN 1			RUN 2		
SERVICE ORDER #:		AXPS-00185	SERVICE ORDER #:		
PROGRAM VERSION:		19C0-187	PROGRAM VERSION:		
FLUID LEVEL:		0 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT	
GSR-U/Y WITM (DTS)-A 186	

DOWNHOLE EQUIPMENT	
LEH-Q LEH-Q 3069	55.2
CAL-Y CAL-Y 1379	53.1
DTC-H ECH-KC DTCH0-A DTCH1-A	49.6
SGT-N SGH-K 3231 SGC-TB 10438 SGD-TAB	46.6
DSLT-H DSLH-H 8089 ECH-KH SLS-W 1229	41.1
USN UHN USF UHF	28.6 27.8 27.6
LSF LHF LHN LSN	24.8 24.6 23.8





MAIN 5"

MAXIS Field Log

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

Input DLIS Files

DEFAULT	USI_SONIC_161LUP	FN:247	PRODUCER	02-Sep-2011 00:26	595.0 FT	-40.0 FT
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Output DLIS Files

DEFAULT	USI_SONIC_165PUP	FN:254	PRODUCER	02-Sep-2011 01:12
RTB	USI_SONIC_165PUP	FN:255	PRODUCER	02-Sep-2011 01:12

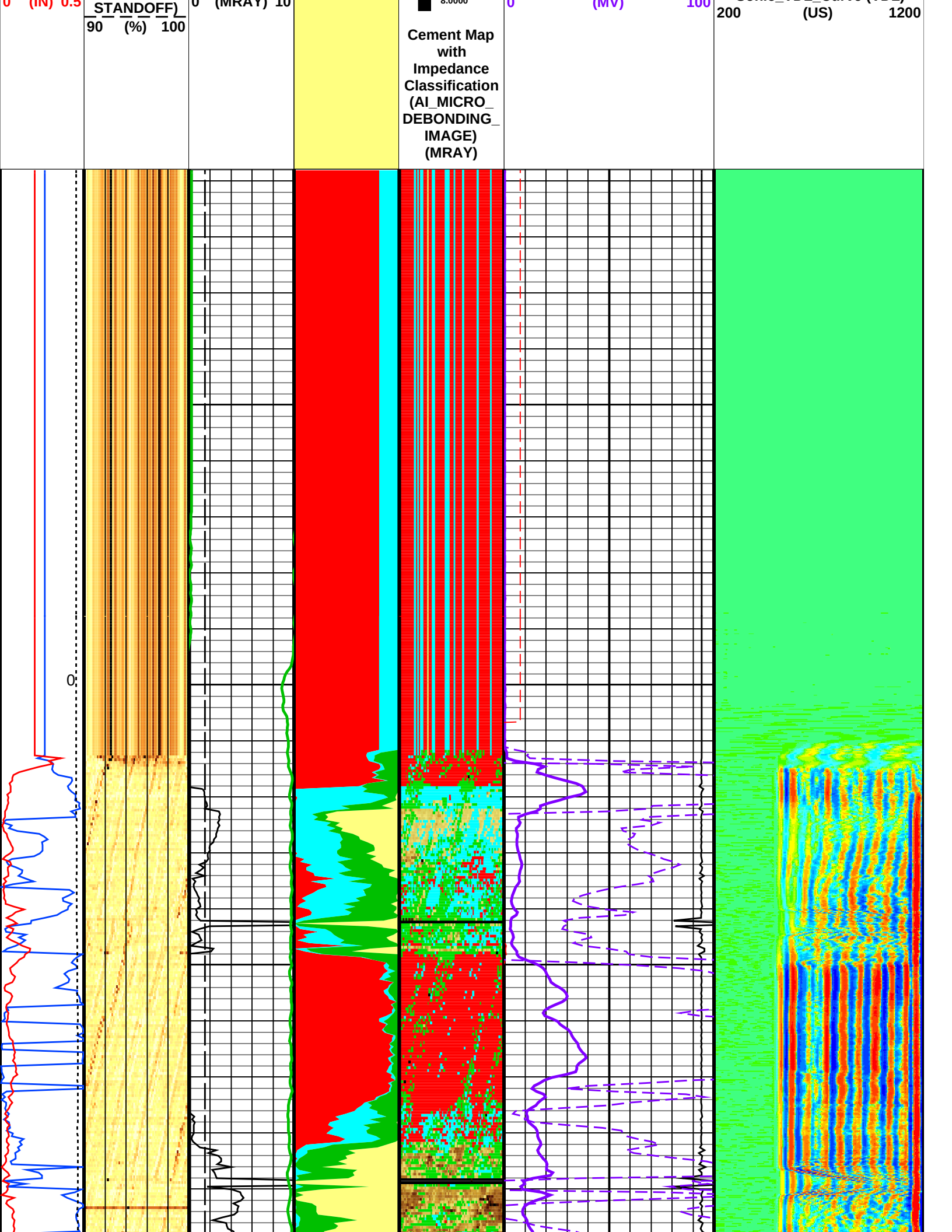
OP System Version: 19C0-187

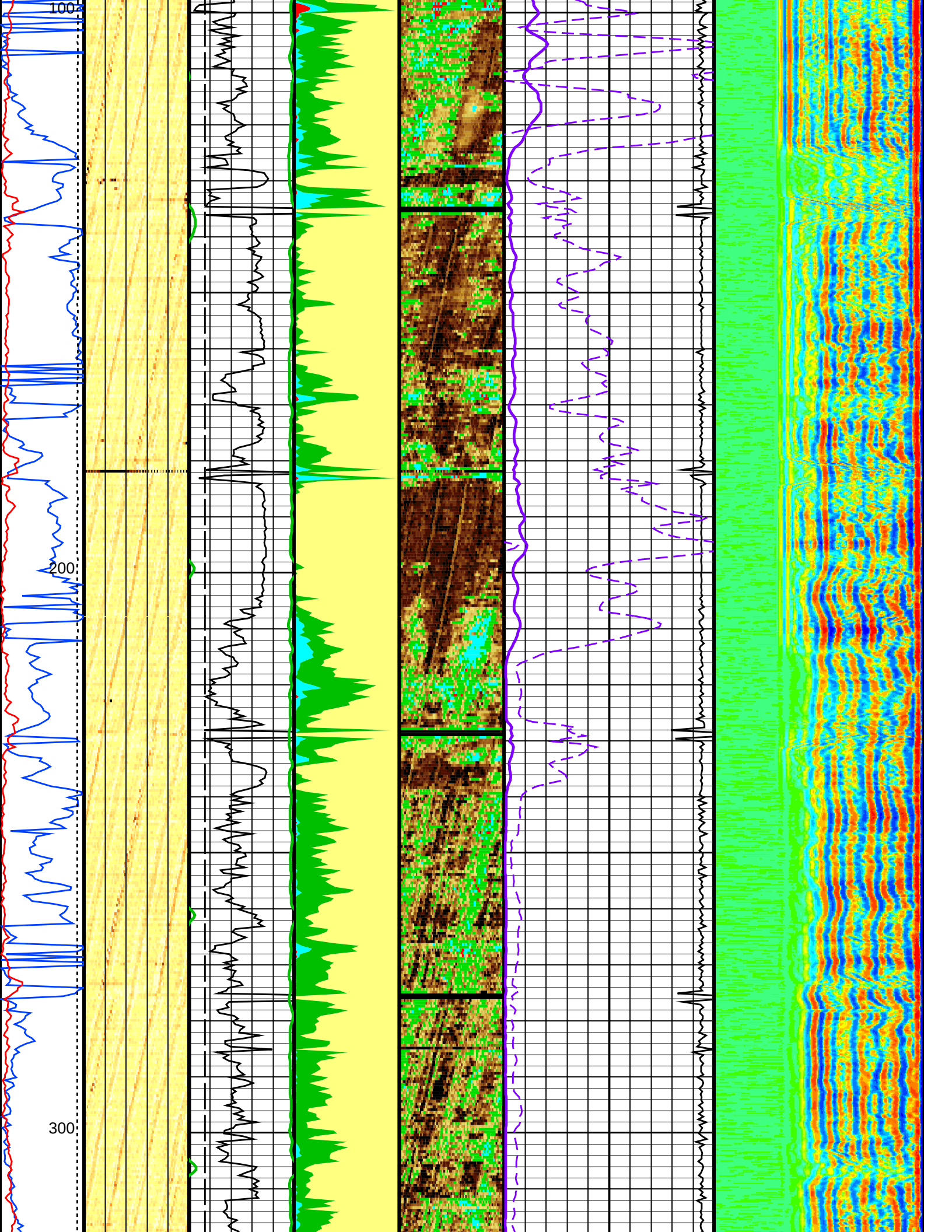
USIT-D	19C0-187	DSLTT-H	19C0-187
SGT-N	19C0-187	DTC-H	19C0-187
CAL-Y	19C0-187		

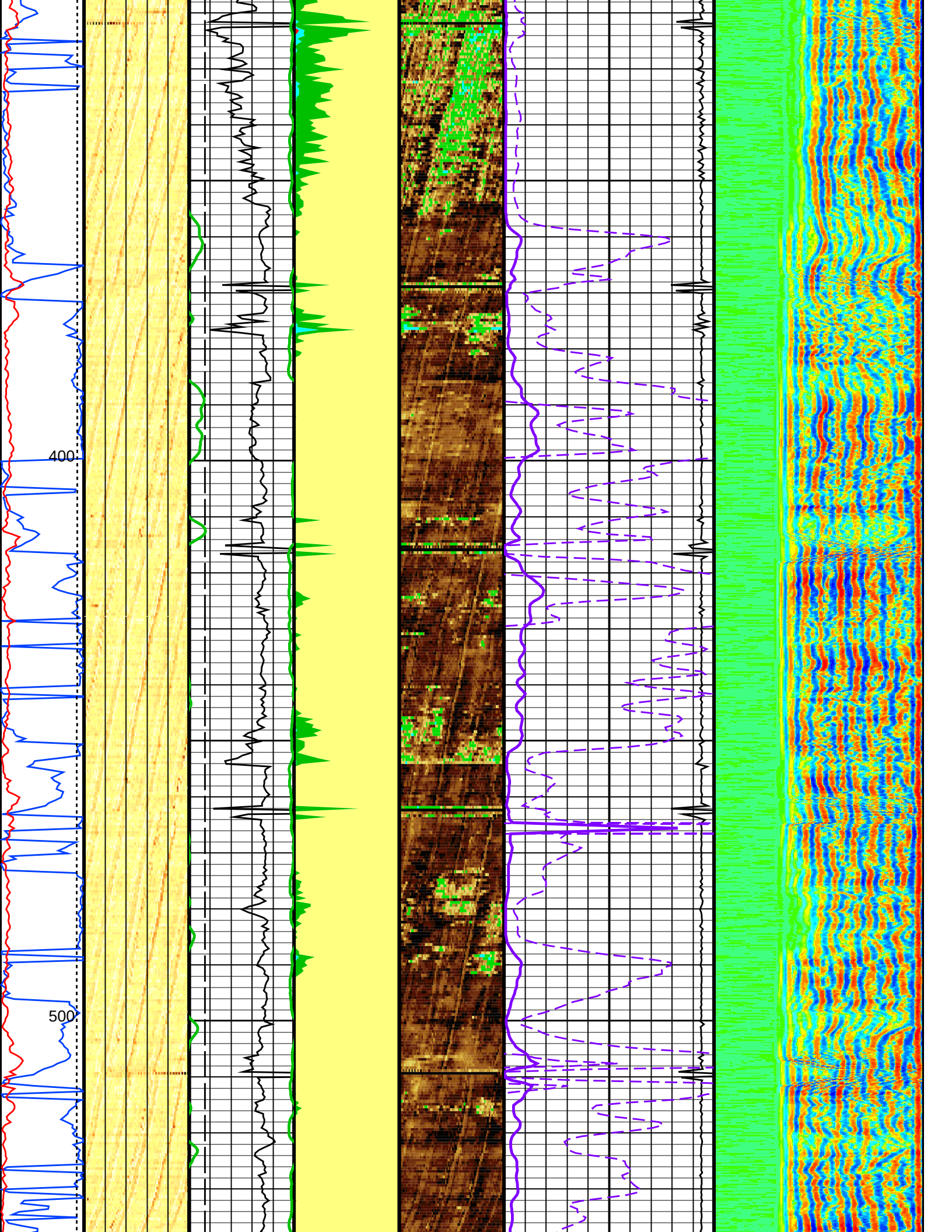
Zoning of Mud Parameters

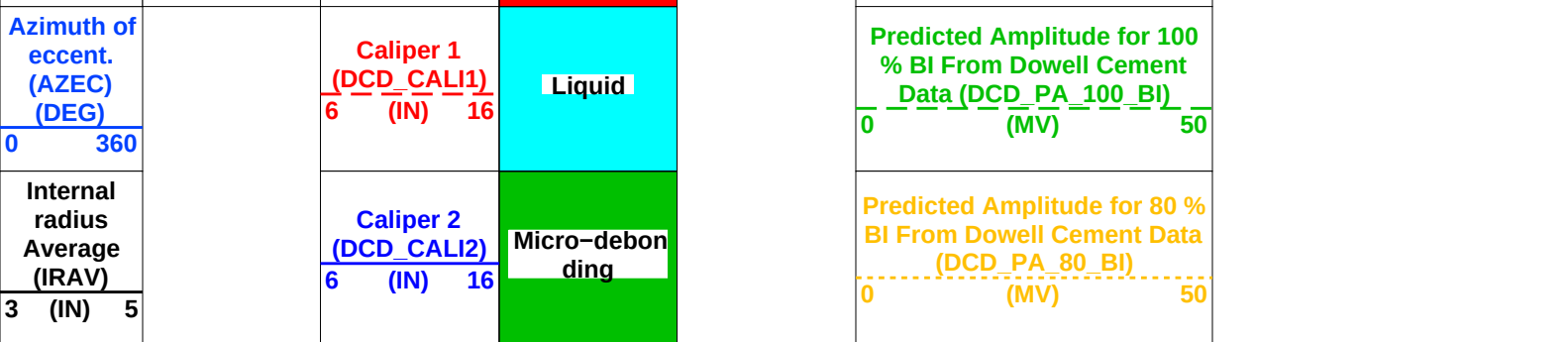
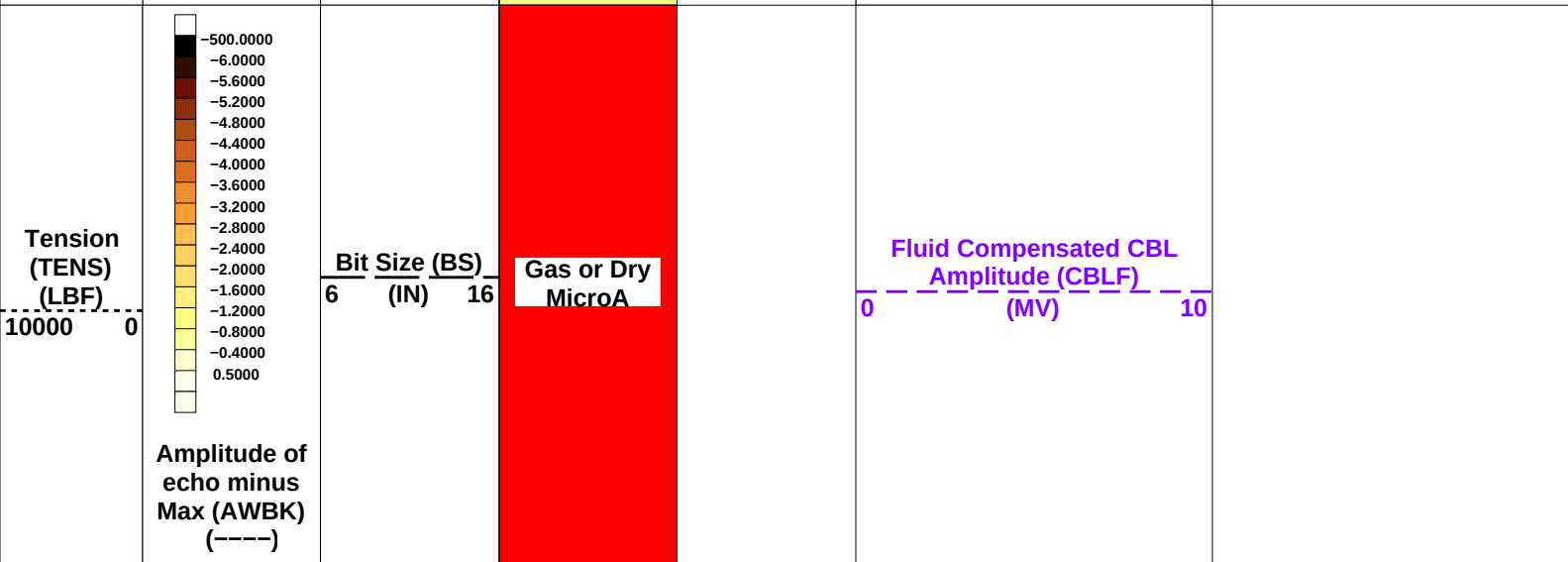
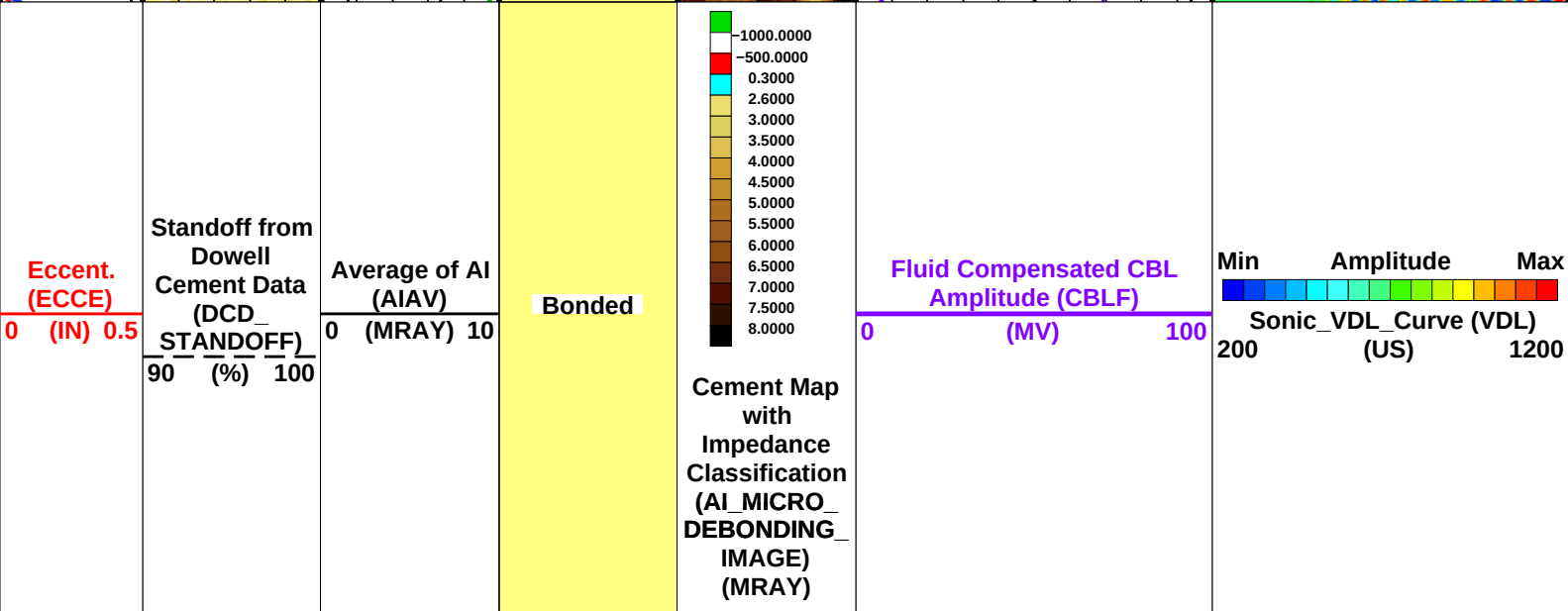
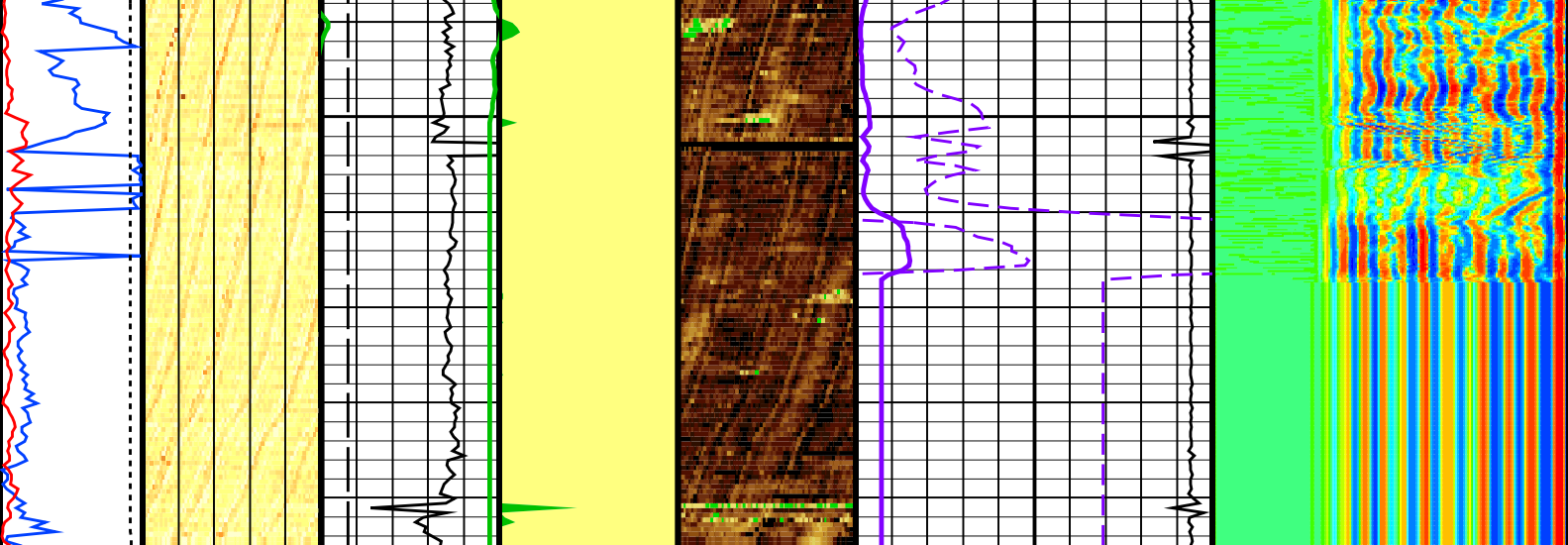
Depth	Fluid Velocity (DFVL)	Acoustic Impedance (ZMUD)
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590.00	209.32	1.78
550.00	209.32	1.78
500.00	209.32	1.78
450.00	209.32	1.78
400.00	209.32	1.78
350.00	209.32	1.78
300.00	209.28	1.73
250.00	209.28	1.73
200.00	208.78	1.73









Oval Hole		400 (US) 200	
Gamma Ray (GR)		CCL (CCLU)	
0 (GAPI) 200		-35 (----) 5	

Format: NewUSI_CBL_Client		Vertical Scale: 5" per 100'	Graphics File Created: 02-Sep-2011 01:12	
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OP System Version: 19C0-187

USIT-D	19C0-187	DSLT-H	19C0-187
SGT-N	19C0-187	DTC-H	19C0-187
CAL-Y	19C0-187		

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	13.375	IN
CDUN	Curves Unit Declared in Presentation Manager	IN	
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	12.715	IN
CYST	Casing Yield Strength	0	PSI
DFVL	Default Fluid Velocity	210	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	50	V
FDII	FPM Data Interpolation Interval	0	FT
FSOD	Fluid Slowness Fits Casing Outer Diameter	0_OFF	
IMAR	Image Rotation	OFF	
MW	Mud Weight	9.3	LB/G
OPLEV	USIT Remove Flagged Data Level	level2	
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	
SDTVR	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
SUBT	Ultrasonic Subassembly Type	Sub_10_34_inch_S	
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	0.33	IN
TMUC	Type of Mud	WBM	
U-USIT_RFWB	USIT Remove Flagged Data Window Begin	0	US
U-USIT_RFWE	USIT Remove Flagged Data Window End	511	US
UMAO	USIT Measurement Angular Offset	-10	DEG
UPAT	Emission Pattern	Pattern_500K	
USIT_USAC_TASK_ALLOW	USIT USAC Allow Task after Power Up	YES	
USIT_USAC_TASK_TIMEOUT	USIT USAC Task Timeout (in seconds) FOR TEST REPORT	600	
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_60U_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	19.7889	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.51	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
DSLT-H: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSLCL_FTB	
	DSLT Firing Mode	CBL_W	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	250	US
BILI	Bond Index Level for Zone Isolation	0.8	

BISS	Bond Index Source Selection for BIQL	1	
CBAF	CBL Adjustment Factor	45	US
CBLG	CBL Gate Width	42	MV
CBRA	CBL LQC Reference Amplitude in Free Pipe	1	
CMCF	CBL Cement Type Compensation Factor	0.34453	IN
CTHI	Casing Thickness	0	US
DDEL	Digitizing Delay	E1	
DETE	Delta-T Detection	HOST	
DFAD	Digital First Arrival Detection Switch	60	
DIVL	DSLTT Depth Sampling Interval	120	
DRCS	DSLTT DLIS Recording Size	10	
DSIN	Digitizing Sample Interval	FULL	
DTCM	Delta-T Computation Mode	204.5	US/F
DTF	Delta-T Fluid	266	
DTFS	DSLCT Telemetry Frame Size	120	
DWCO	Digitizing Word Count	0	DB/F
FATT	Acoustic Attenuation due to Fluid	1	
FCF	CBL Fluid Compensation Factor	40	
GAI	Manual Gain	1.80717	MV
GOBO	Good Bond	5.118	IN
HRSP	High Resolution Spacing	1	
LTUT	Lower to Upper Transmitter Spacing Ratio	35	
MAHTR	Manual High Threshold Reference	12.3768	DB/F
MATT	Maximum Attenuation	1	
MCCF	MAP Cement Type Compensation Factor	21.6763	FT
MCI	Minimum Cemented Interval for Isolation	1000	
MGAI	Maximum Gain	1	
MIGA	Minimum Gain	0	MV
MMSA	MAP Minimum Sonic Amplitude	28	
MNHTR	Minimum High Threshold Reference	CBL	
MODE	Sonic Firing Mode	0.823071	MV
MSA	Minimum Sonic Amplitude	387	US
NMSG	Near Minimum Sliding Gate	750	US
NMXG	Near Maximum Sliding Gate	2	
NUMP	Number of Detection Passes	R15	
RATE	Firing Rate	OFF	
RDFA	Reset DFAD	20000	
SDTH	Switch Down Threshold	0	DB/F
SFAF	Sonic Formation Attenuation Factor	ON	
SGAD	Sliding Gate Status	1X	
SGAI	Selectable Acquisition Gain	250	US/F
SGCL	Sliding Gate Closing Delta-T	25	US
SGCW	Sliding Gate Closing Width	57	US/F
SGDT	Sliding Gate Delta-T	80	US
SGW	Sliding Gate Width	5000	
SLEV	Signal Level for AGC	1000	
SUTH	Switch Up Threshold	5	
VDLG	VDL Manual Gain	OFF	
WAGC	Waveform AGC Allow/Disallow	20	
WGAI	Waveform Manual Gain	240	US/F
WGDT	Waveform Gain Delta-T	2540	US
WGIN	Waveform Gain Interval	FULL	
WMOD	Waveform Firing Mode	6.8	MRAY
ZCMT	Acoustic Impedance of Cement		
SGT-N: Scintillation Gamma Ray Tool - N			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
DPPM	Density Porosity Processing Mode	STAN	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	70	DEGF
SOGR	SGT Standoff Distance	0	IN
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	1.5	V
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1528.00	FT
TDL	Total Depth - Logger	590.00	FT
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	17.500	IN
BSAL	Borehole Salinity	120.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	48.00	LB/F
DFD	Drilling Fluid Density	9.30	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	76.60	DEGF

PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	5.0175	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	6053	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Input DLIS Files

DEFAULT	USI_SONIC_161LUP	FN:247	PRODUCER	02-Sep-2011 00:26	595.0 FT	-40.0 FT
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Output DLIS Files

DEFAULT	USI_SONIC_165PUP	FN:254	PRODUCER	02-Sep-2011 01:12
RTB	USI_SONIC_165PUP	FN:255	PRODUCER	02-Sep-2011 01:12

Schlumberger

REPEAT SECTION

MAXIS Field Log

Company: SANDIA TECHNOLOGIES, LLC	Well: NYSTA TANDEM LOT 1
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Input DLIS Files

DEFAULT	USI_SONIC_156LUP	FN:237	PRODUCER	01-Sep-2011 23:44	595.0 FT	47.5 FT
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Output DLIS Files

DEFAULT	USI_SONIC_164PUP	FN:252	PRODUCER	02-Sep-2011 01:08
RTB	USI_SONIC_164PUP	FN:253	PRODUCER	02-Sep-2011 01:08

OP System Version: 19C0-187

USIT-D	19C0-187	DSLT-H	19C0-187
SGT-N	19C0-187	DTC-H	19C0-187
CAL-Y	19C0-187		

Zoning of Mud Parameters

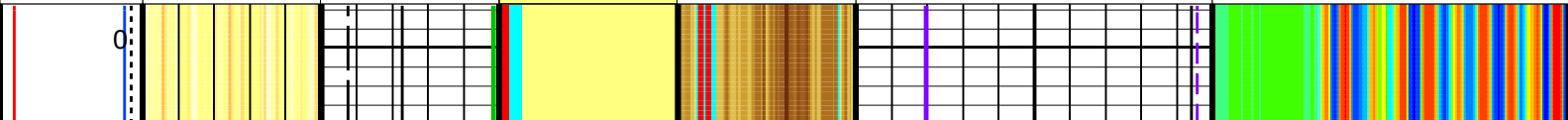
Depth	Fluid Velocity (DFVL)	Acoustic Impedance (ZMUD)
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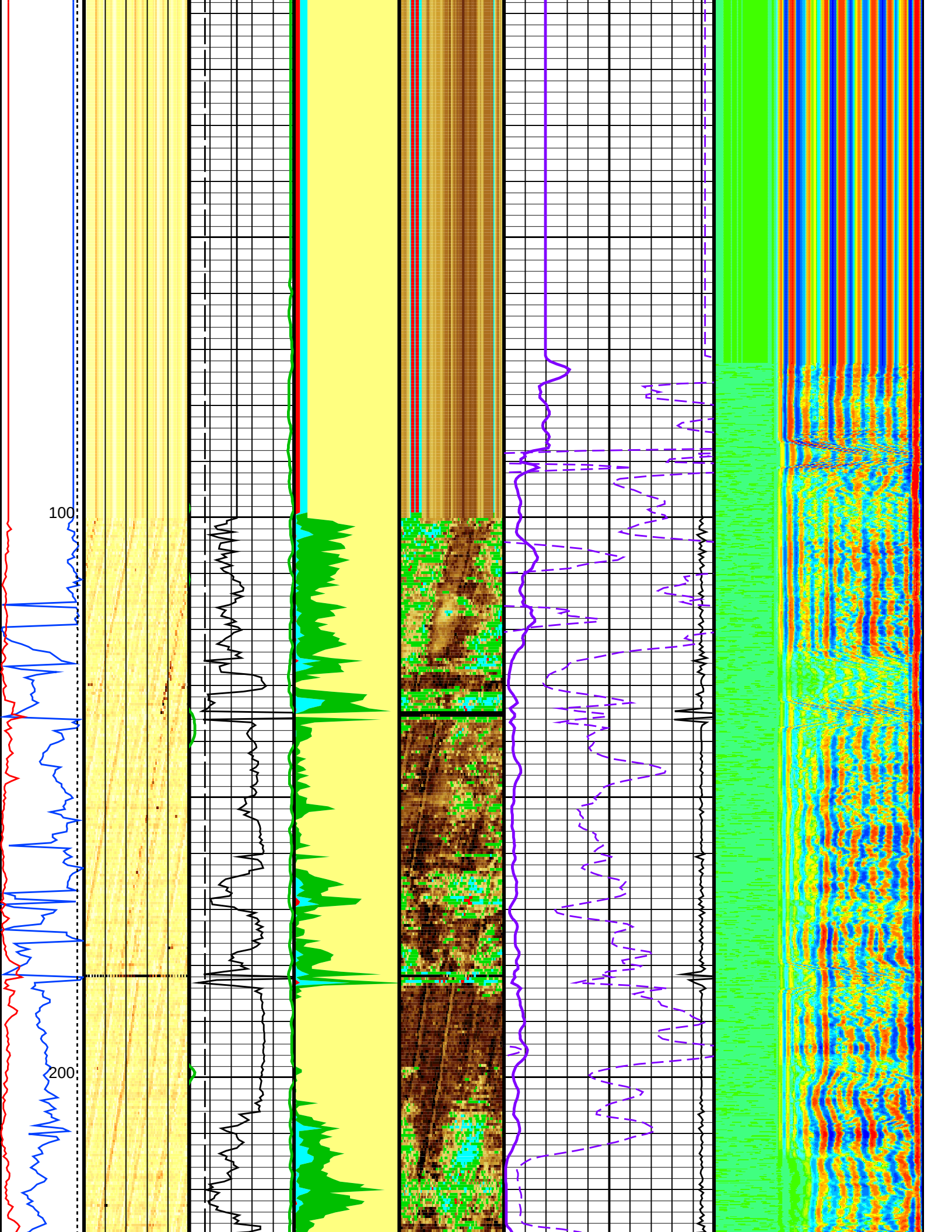
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550.00	209.32	1.78
500.00	209.32	1.78
450.00	209.32	1.78
400.00	209.32	1.78
350.00	209.32	1.78
300.00	209.28	1.73

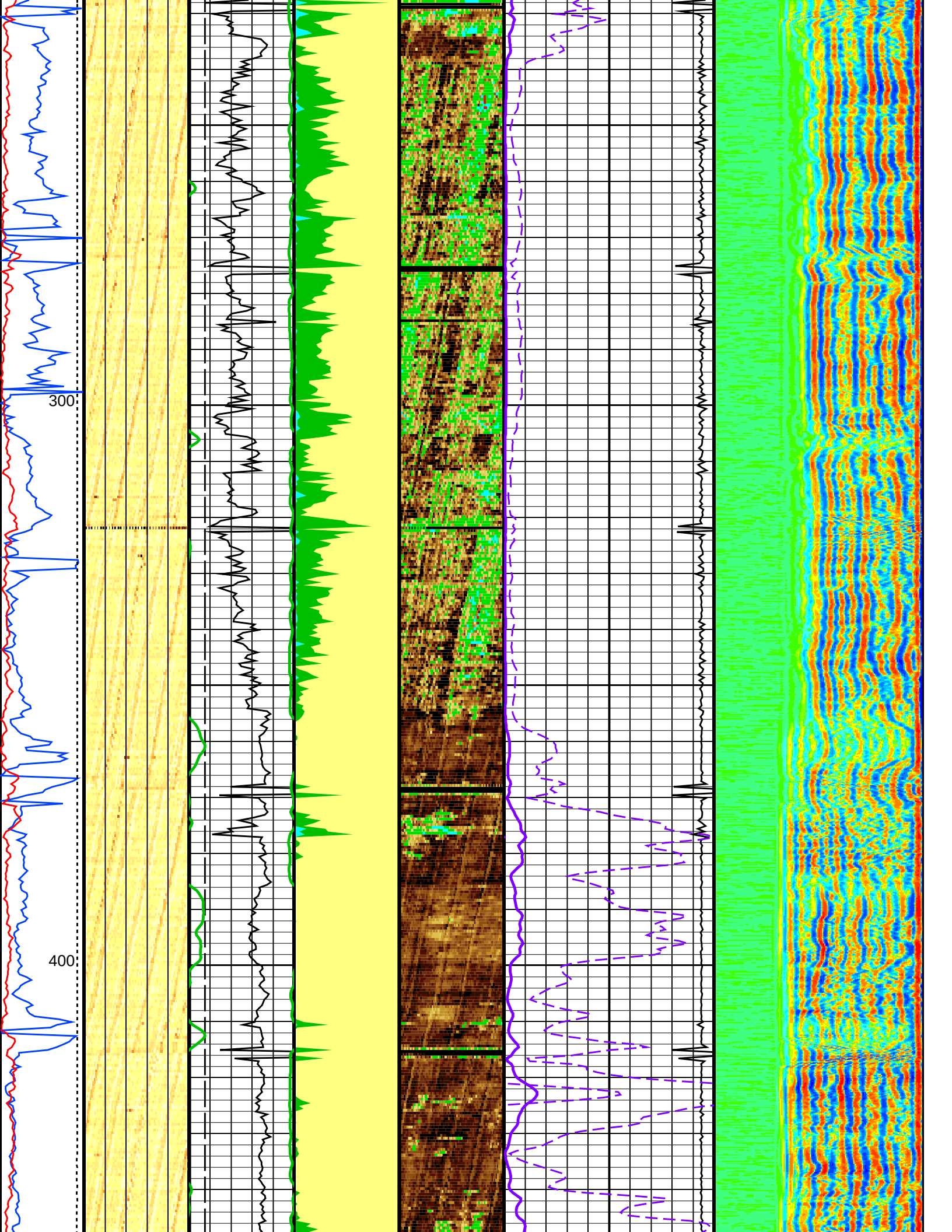
250.00	209.28	1.73
200.00	208.78	1.73

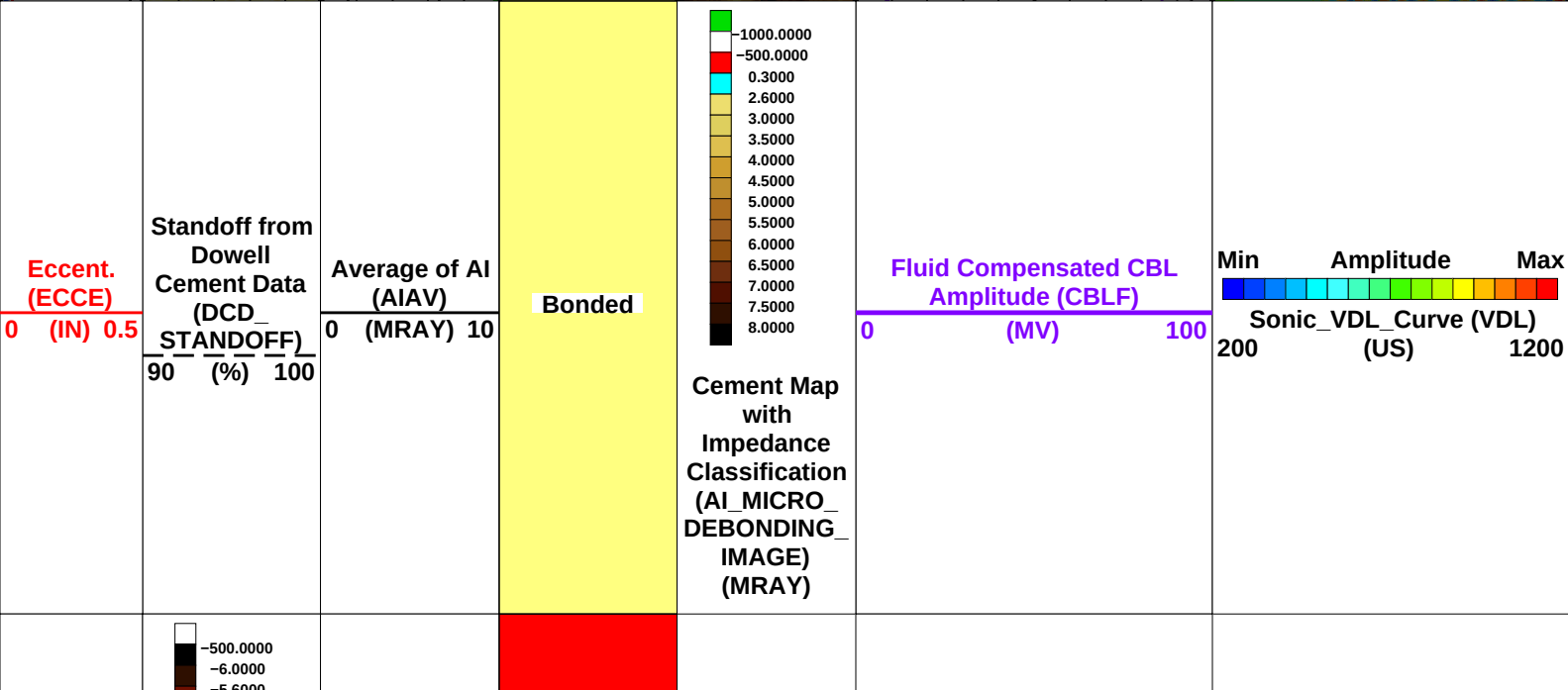
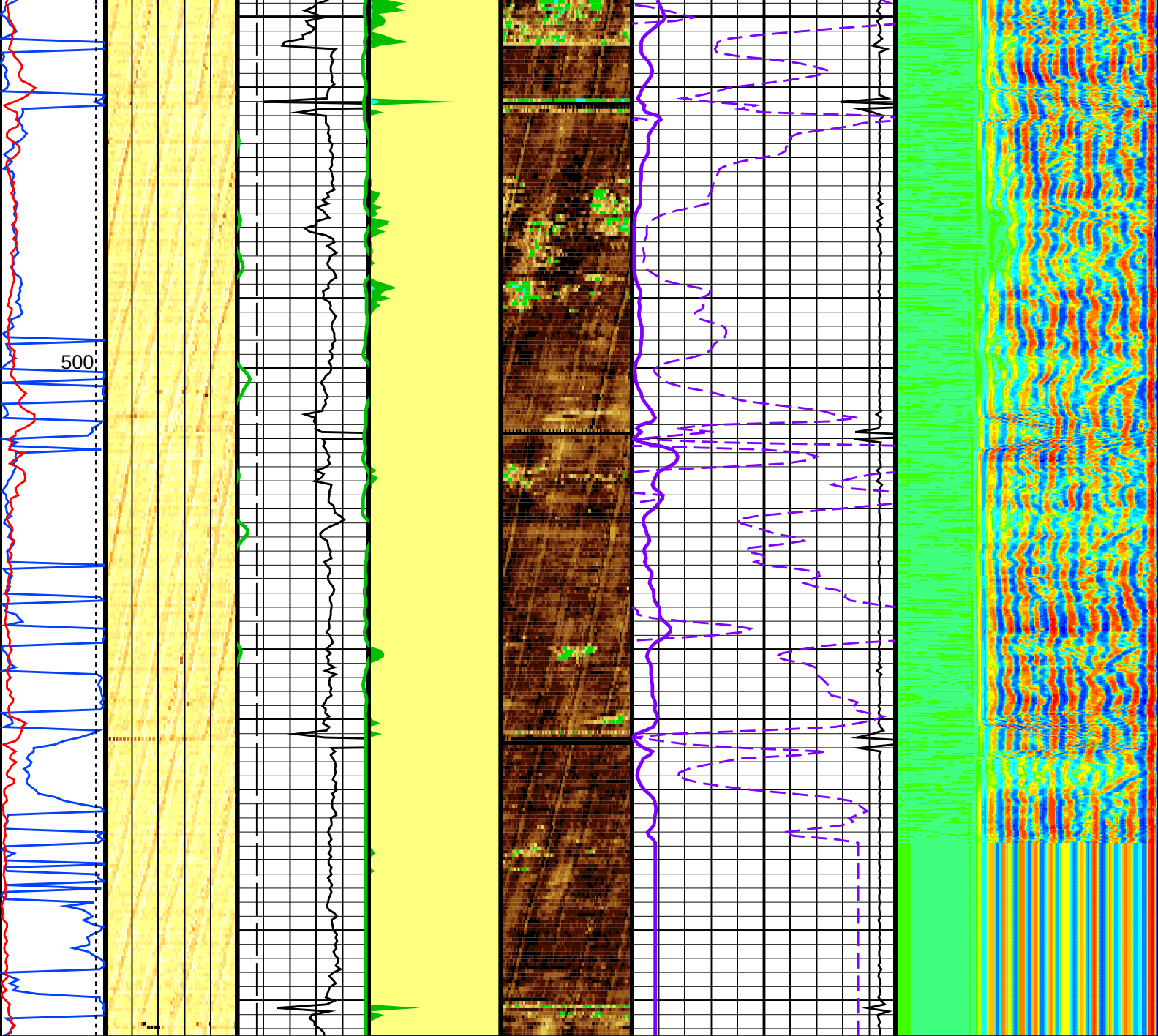
Internal radius Average (IRAV) 3 (IN) 5 Azimuth of eccent. (AZEC) (DEG) 0 360 Tension (TENS) (LBF) 10000 0 Amplitude of echo minus Max (AWBK) (----)	Gamma Ray (GR) 0 (GAPI) 200 Oval Hole	CCL (CCLU) -35 (----) 5	Transit Time (TT) (US) 400 200 Predicted Amplitude for 80 % BI From Dowell Cement Data (DCD_PA_80_BI) (MV) 0 50 Predicted Amplitude for 100 % BI From Dowell Cement Data (DCD_PA_100_BI) (MV) 0 50
	Caliper 2 (DCD_CALI2) (IN) 6 16 Micro-debonding		
	Caliper 1 (DCD_CALI1) (IN) 6 16 Liquid		
	Bit Size (BS) (IN) 6 16 Gas or Dry MicroA		Fluid Compensated CBL Amplitude (CBLF) (MV) 0 10

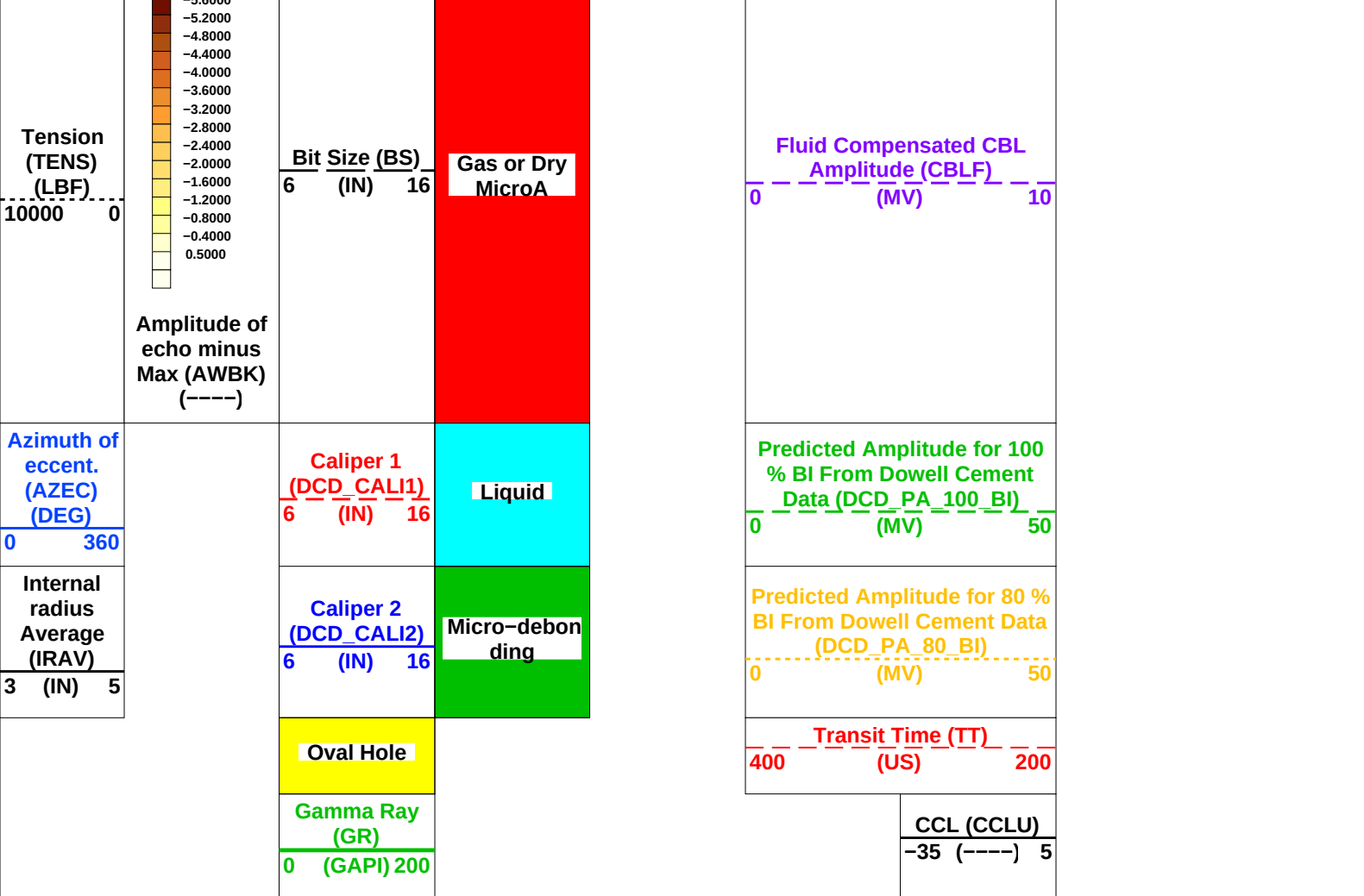
Eccent. (ECCE) (IN) 0 0.5	Standoff from Dowell Cement Data (DCD_STANDOFF) (%) 90 100	Average of AI (AIAV) (MRAY) 0 10	Bonded	Fluid Compensated CBL Amplitude (CBLF) (MV) 0 100	Min Amplitude Max Sonic_VDL_Curve (VDL) (US) 200 1200
			Cement Map with Impedance Classification (AI_MICRO_DEBONDING_IMAGE) (MRAY)		











Format: NewUSI_CBL_Client Vertical Scale: 5" per 100' Graphics File Created: 02-Sep-2011 01:08

OP System Version: 19C0-187

USIT-D	19C0-187	DSLT-H	19C0-187
SGT-N	19C0-187	DTC-H	19C0-187
CAL-Y	19C0-187		

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	13.375	IN
CDUN	Curves Unit Declared in Presentation Manager	IN	
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	12.715	IN
CYST	Casing Yield Strength	0	PSI
DFVL	Default Fluid Velocity	210	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	50	V
FDII	FPM Data Interpolation Interval	0	FT
FSOD	Fluid Slowness Fits Casing Outer Diameter	0_OFF	
IMAR	Image Rotation	OFF	
MW	Mud Weight	9.3	LB/G
OPLEV	USIT Remove Flagged Data Level	level2	
PCOD	Reference Calibrator Outer Diameter	7	IN

RCSO	Reference Calibrator Outer Diameter	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	
SUBT	Ultrasonic Subassembly Type	Sub_10_34_inch_S	
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	0.33	IN
TMUC	Type of Mud	WBM	
U-USIT_RFWB	USIT Remove Flagged Data Window Begin	0	US
U-USIT_RFWE	USIT Remove Flagged Data Window End	511	US
UMAO	USIT Measurement Angular Offset	-10	DEG
UPAT	Emission Pattern	Pattern_500K	
USIT_USAC_TASK_ALLOW	USIT USAC Allow Task after Power Up	YES	
USIT_USAC_TASK_TIMEOUT	USIT USAC Task Timeout (in seconds) FOR TEST REPORT	600	
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_60U_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	19.7889	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.51	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
DSLTL-H: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSLCL_FTB	
	DSLTL Firing Mode	CBL_W	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	250	US
BILI	Bond Index Level for Zone Isolation	0.8	
BISS	Bond Index Source Selection for BIQL	BI	
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	45	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	42	MV
CMCF	CBL Cement Type Compensation Factor	1	
CTHI	Casing Thickness	0.34453	IN
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E1	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLTL Depth Sampling Interval	60	
DRCS	DSLTL DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	204.5	US/F
DTFS	DSLCL Telemetry Frame Size	266	
DWCO	Digitizing Word Count	120	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GAI	Manual Gain	40	
GOBO	Good Bond	1.80717	MV
HRSP	High Resolution Spacing	5.118	IN
LTUT	Lower to Upper Transmitter Spacing Ratio	1	
MAHTR	Manual High Threshold Reference	35	
MATT	Maximum Attenuation	12.3768	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	21.6763	FT
MGAI	Maximum Gain	1000	
MIGA	Minimum Gain	1	
MMSA	MAP Minimum Sonic Amplitude	0	MV
MNHTR	Minimum High Threshold Reference	28	
MODE	Sonic Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	0.823071	MV
NMSG	Near Minimum Sliding Gate	387	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R15	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	0	DB/F
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	1X	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	57	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	5	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAI	Waveform Manual Gain	20	

WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
SGT-N: Scintillation Gamma Ray Tool - N			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
DPPM	Density Porosity Processing Mode	STAN	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	70	DEGF
SOGR	SGT Standoff Distance	0	IN
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	1.5	V
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1528.00	FT
TDL	Total Depth - Logger	590.00	FT
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	17.500	IN
BSAL	Borehole Salinity	120.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	48.00	LB/F
DFD	Drilling Fluid Density	9.30	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	76.60	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	5.0175	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	6053	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Input DLIS Files

DEFAULT	USI_SONIC_156LUP	FN:237	PRODUCER	01-Sep-2011 23:44	595.0 FT	47.5 FT
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Output DLIS Files

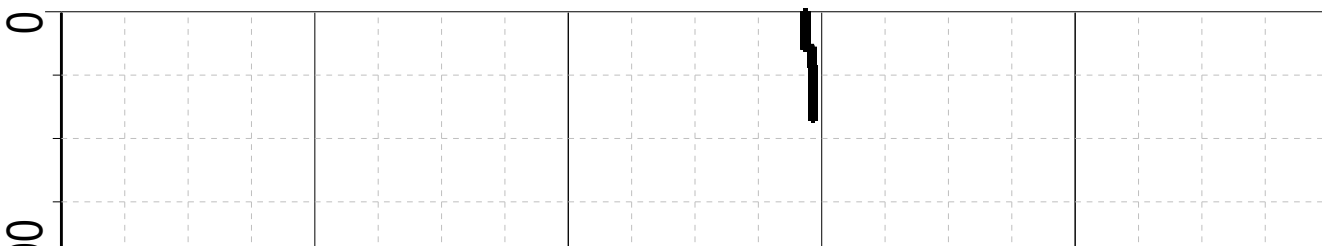
DEFAULT	USI_SONIC_164PUP	FN:252	PRODUCER	02-Sep-2011 01:08
RTB	USI_SONIC_164PUP	FN:253	PRODUCER	02-Sep-2011 01:08

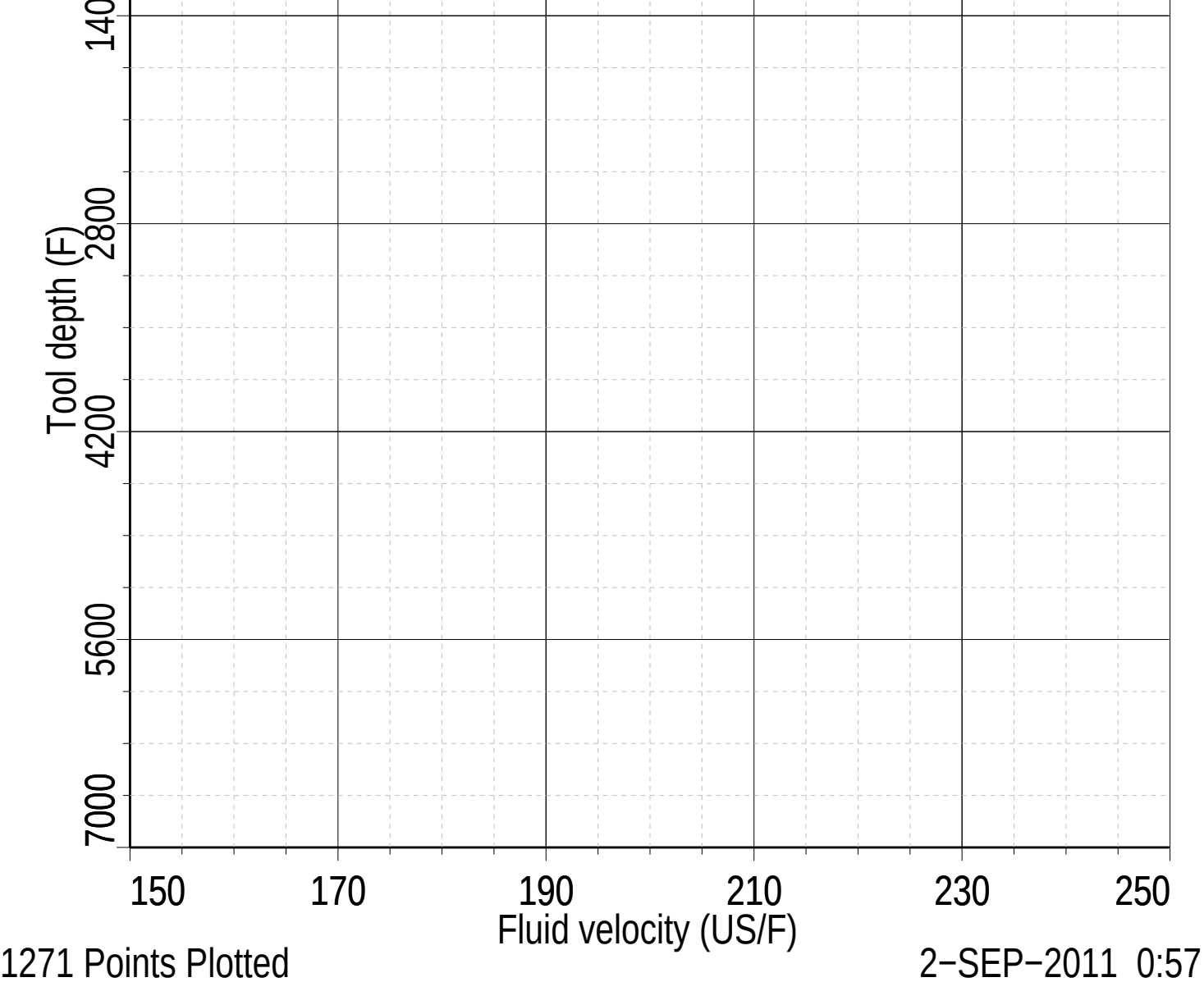
Schlumberger

FLUID PROPERTIES

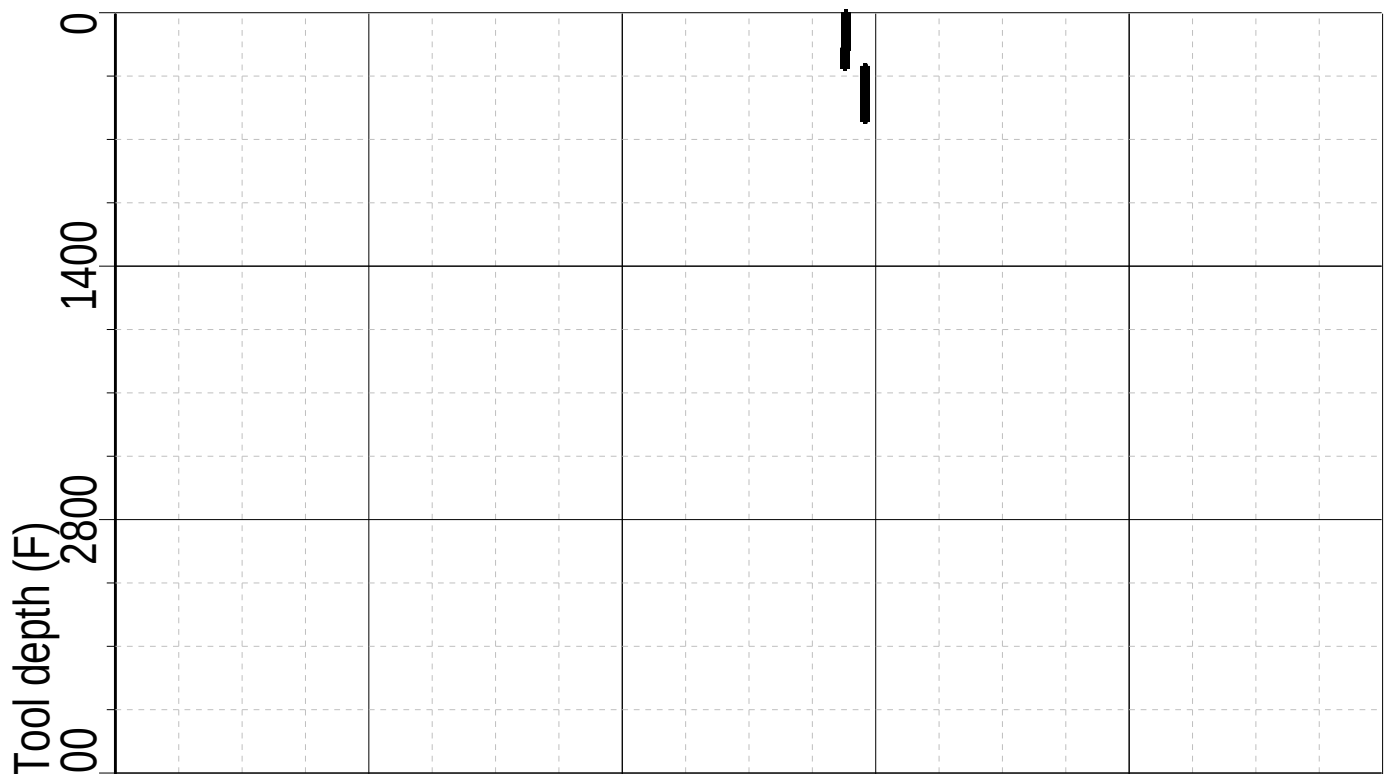
MAXIS Field Log

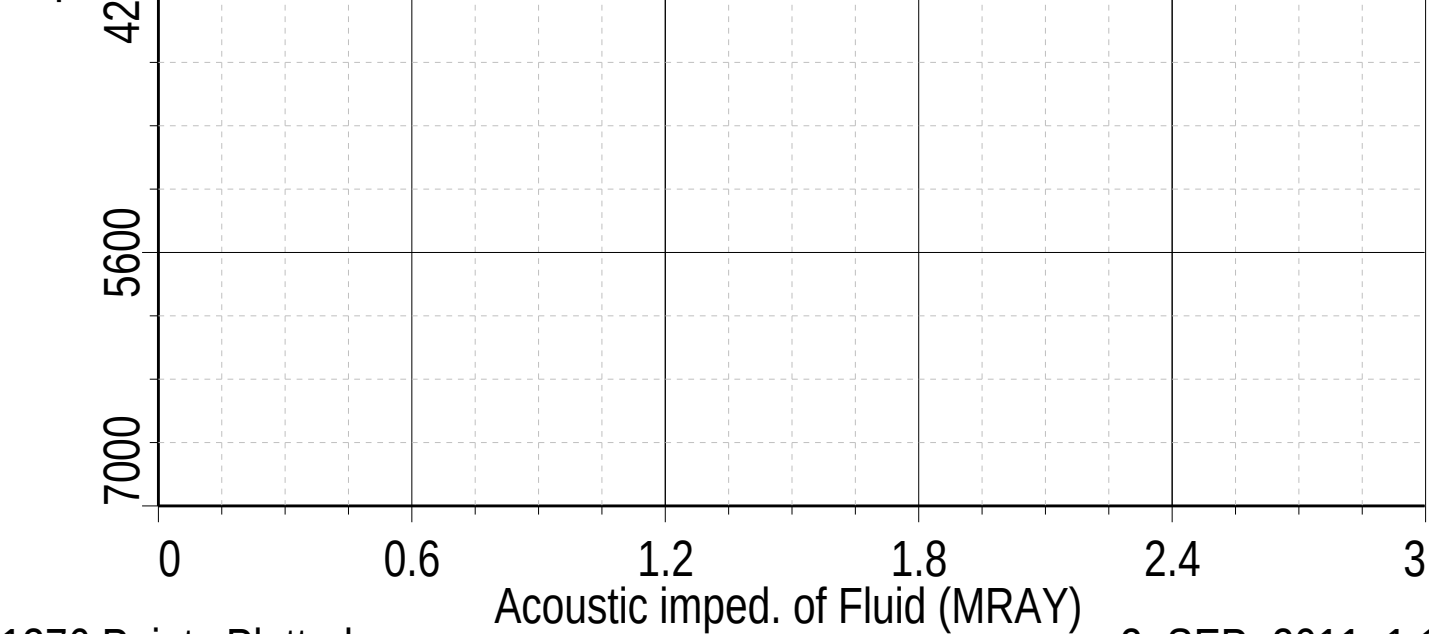
Index: 595.0 - -40.0 FT





Index: 595.0 - -92.5 FT

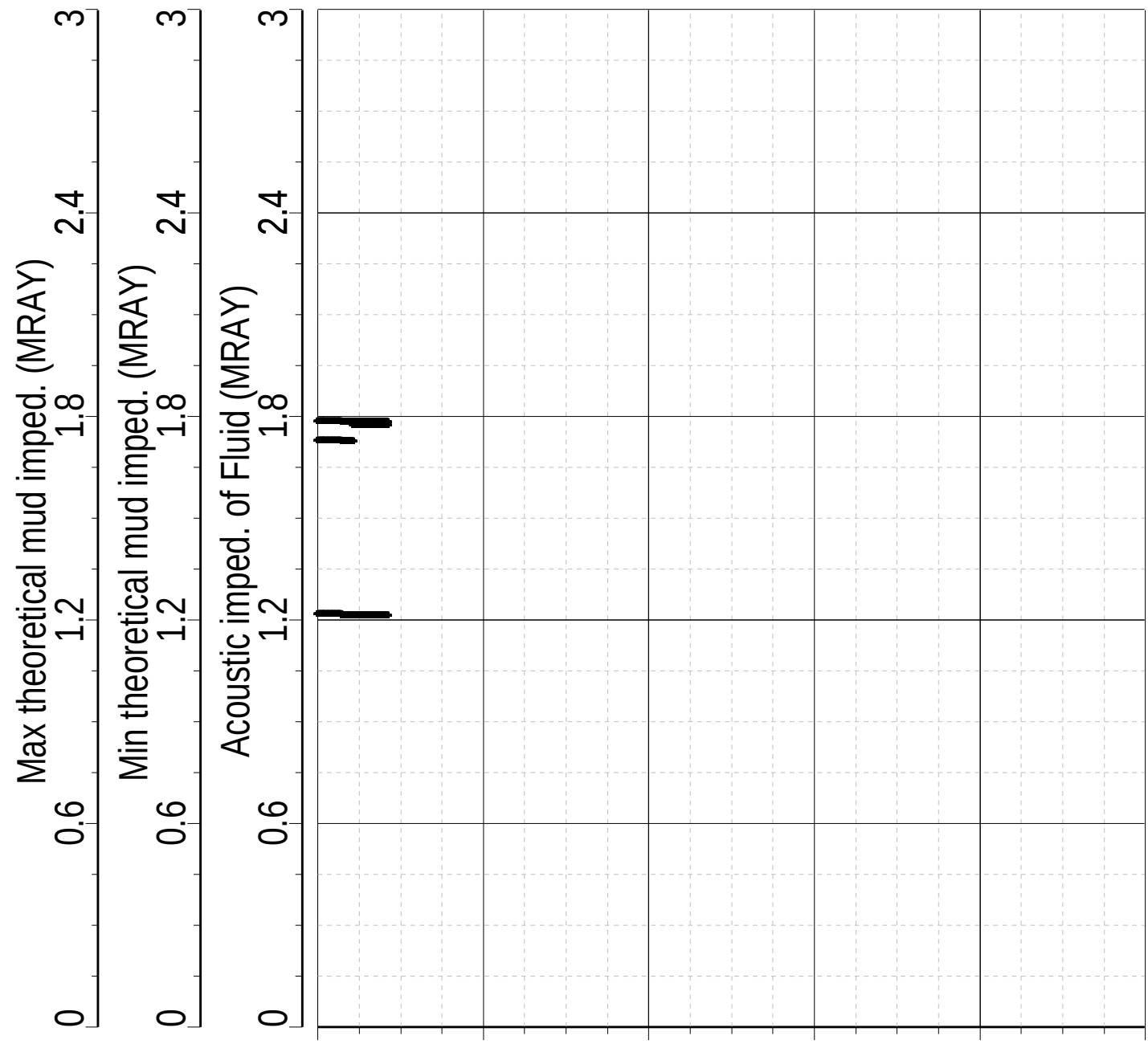




1376 Points Plotted

2-SEP-2011 1:13

Index: 595.0 - -40.0 FT



0 1400 2800 4200 5600 7000

Tool depth (F)

3573 Points Plotted

2-SEP-2011 0:57

Company: **SANDIA TECHNOLOGIES, LLC**

Schlumberger

Well: **NYSTA TANDEM LOT 1**

Field: **WILDCAT**

County: **ROCKLAND**

State: **NEW YORK**

ULTRASONIC IMAGING TOOL

CEMENT MAP – BOND / VARIABLE DENSITY LOG

GAMMA RAY / CCL