

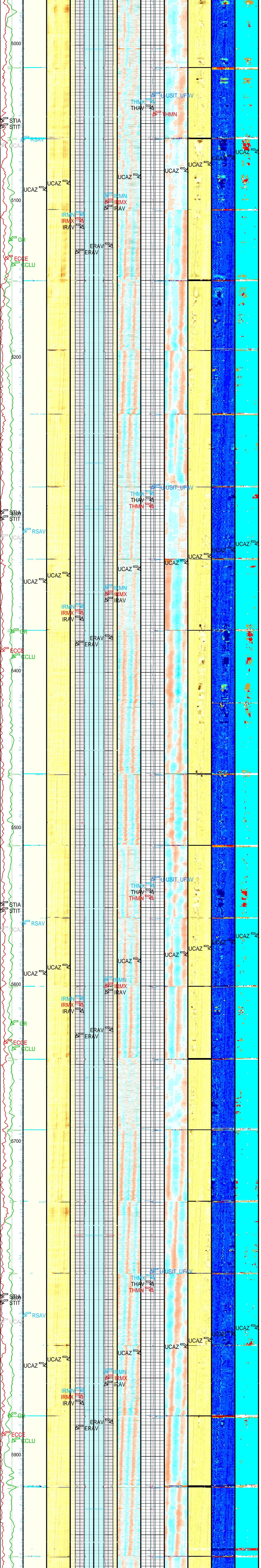
Company: ExxonMobil Production Corp.										Schlumberger									
Well: PCU 296-5A7										PVT DATA									
Field: Piceance Creek										Oil Density									
County: Rio Blanco										Water Salinity									
State: Colorado										Gas Gravity									
IMAGING BEHIND CASING										Bo									
ULTRASONIC TOOL										Bw									
GAMMA RAY - CCLU										1/Bg									
SHL: Sec 5-T2S-R96W										Bubble Point Pressure									
Permanent Datum: _____										Bubble Point Temperature									
Log Measured From: _____										Solution GOR									
Drilling Measured From: _____										Maximum Deviation									
API Serial No. _____										CEMENTING DATA									
05-103-11243-00										Primary/Squeeze									
Section 5										Casing String No									
Township 2S										Lead Cement Type									
Range 96W										Volume									
Elev.: 7294.00 ft										Density									
GROUND LEVEL										Water Loss									
KELLY BUSHING										Additives									
KELLY BUSHING										Tail Cement Type									
Elev.: 7294.00 ft										Volume									
30.20 ft above Perm. Datum										Density									
Water Loss										Additives									
Expected Cement Top										Run 1									
Logging Date										Run 2									
Run Number										Run 3									
Depth Driller										Run 4									
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																			
Marc Septon																			
Marc																			

DEPTH SUMMARY LISTING									
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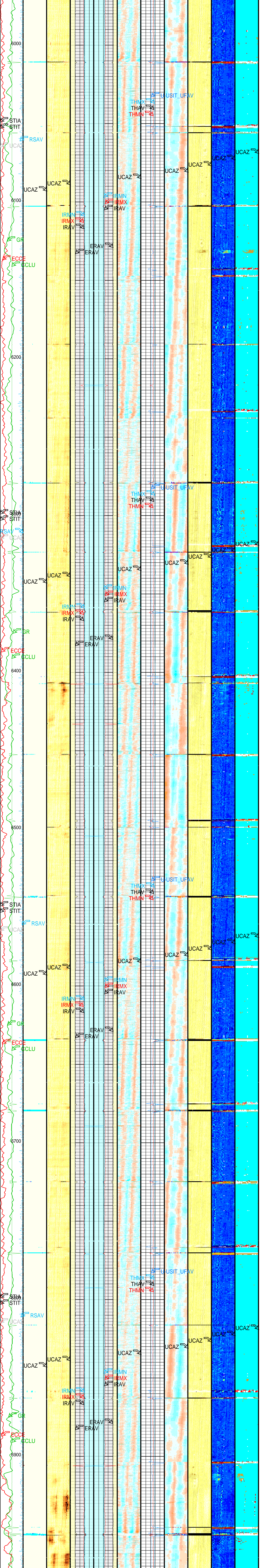




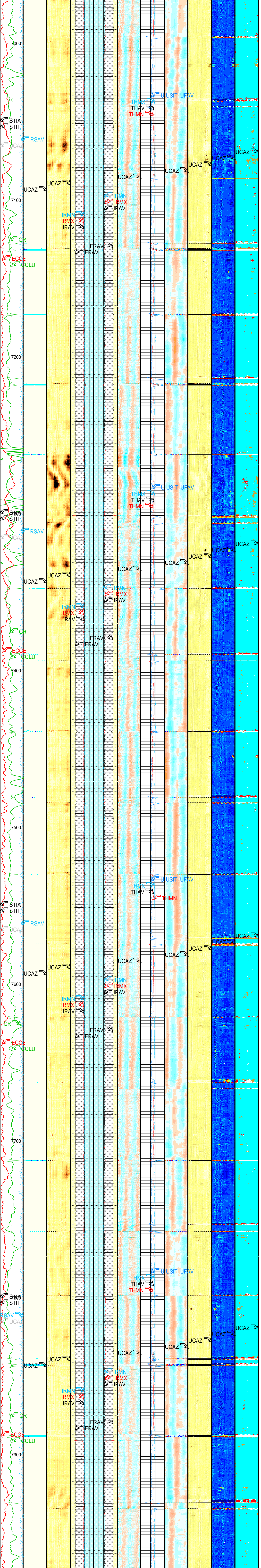




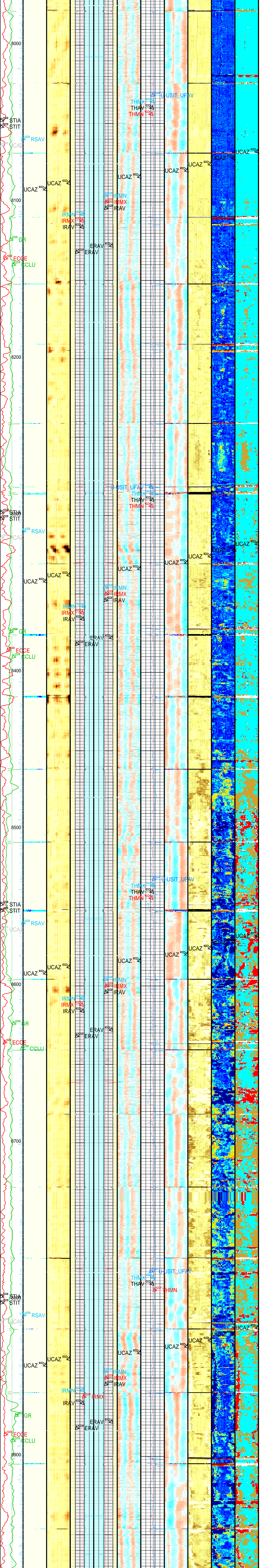




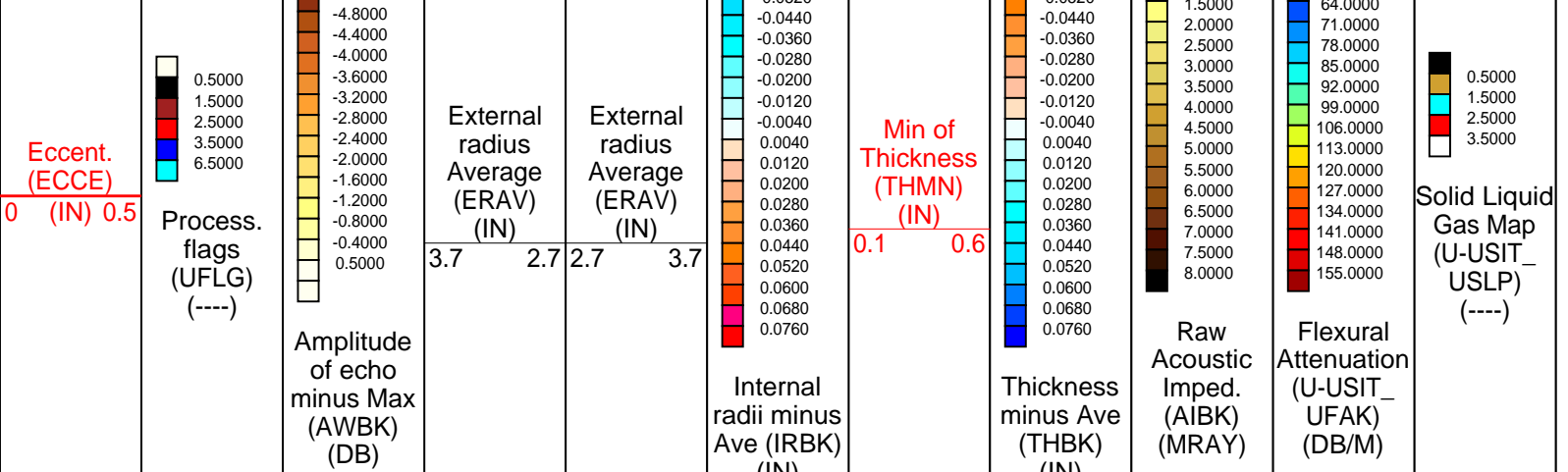
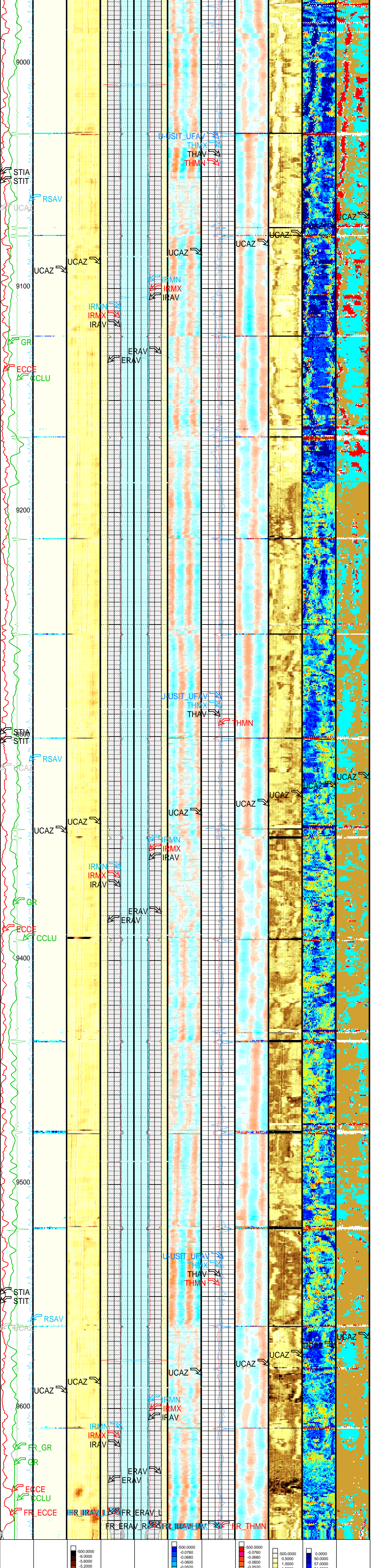












CCL (CCLU) (----)	-20	20
RSAB (RSAB) (RPS)	6	7.5
Gamma Ray (GR) (GAPI)	0	150
Stuck Stretch (STIT) (F)	0	50
Cable Drag From D4T to STIT		
Tool/Tot. Drag From D4T to STIA		
Image rotation (UCAZ) (DEG)	0	360

Format: USI\_IBC\_SLG\_Composite      Vertical Scale: 5' per 100'      Graphics File Created: 26-Mar-2011 07:19

OP System Version: 18C0-147

USIT-D DTC-H	SRPC-3972-Q1_2010_OP18_b 18C0-147	HILTH-FTB	SRPC-3972-Q1_2010_OP18_b
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All USI Images are outside views

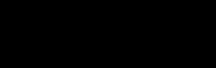
USI : LOW Frequency Compression Mode Used For Logging.  
Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.

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	7 IN
CSDE	Casing Density	486.94 LBCF
CSID	Casing Inner Diameter	6.276 IN
DFVL	Default Fluid Velocity	206 US/F
DOT	Diameter of Transducer Sensor	2.874 IN
EMXV	EMEX Voltage	40 V
FSOD	Fluid Slowness Fits Casing Outer Diameter	5_UFSL_N_ZMUD
IMAR	Image Rotation	OFF
MW	Mud Weight	8.4 LB/G
RCOD	Reference Calibrator Outer Diameter	7 IN
RCSO	Reference Calibrator Standoff	1.1811 IN
RCTH	Reference Calibrator Thickness	0.2952 IN
TCUB	Tx3 Processing Level	Vax_Loop
THDH	Maximum Sensor Thickness (percentage of nominal)	120



THDL	Thickness (percentage of nominal)	70	
THDP	Minimum Search Thickness (percentage of nominal)	13	Fundamental
THNO	Nominal Thickness of Casing	0.362	IN
U-USIT_CEMT	USIT Cement Type	LIGHT	MRAY
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	
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	-20	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_lbc_B	
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_7_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T*3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.8	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
LBFR	STI: Stuck Tool Indicator		
STKT	Trigger for MAXIS First Reading Label	STI	
TDD	STI Stuck Threshold	2.5	FT
TDL	Total Depth - Driller	9781.00	FT
	Total Depth - Logger	9650.00	FT
BS	System and Miscellaneous		
CWEI	Bit Size	8.875	IN
DO	Casing Weight	26.00	LB/F
PP	Depth Offset for Playback	8.0	FT
	Playback Processing	NORMAL	

Input DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_030LUP	FN:29	PRODUCER	26-Mar-2011 04:11	9650.5 FT	3998.0 FT
Output DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_032PUP	FN:31	PRODUCER	26-Mar-2011 07:19		



VDL WIDE

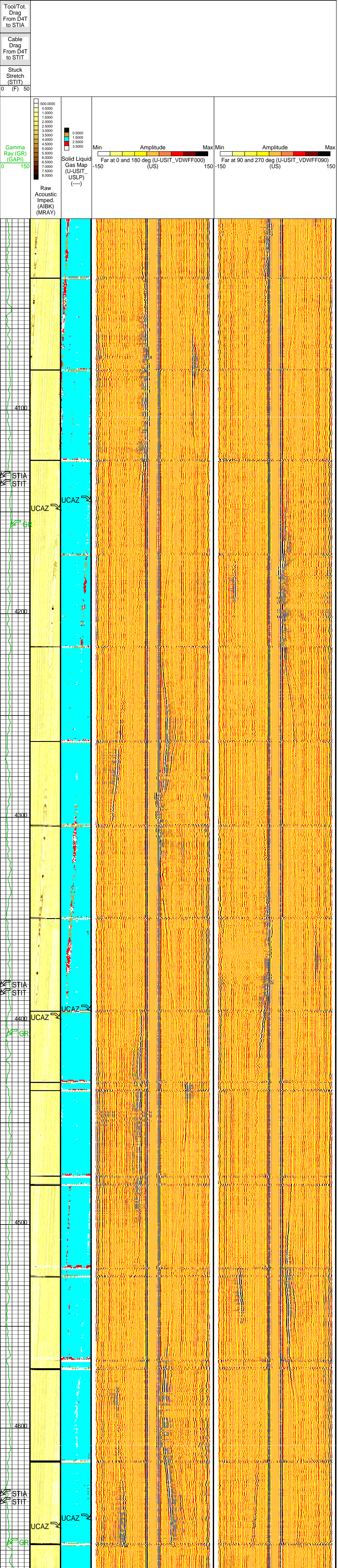
MAXIS Field Log

Company: ExxonMobil Production Corp. Well: PCU 296-5A7

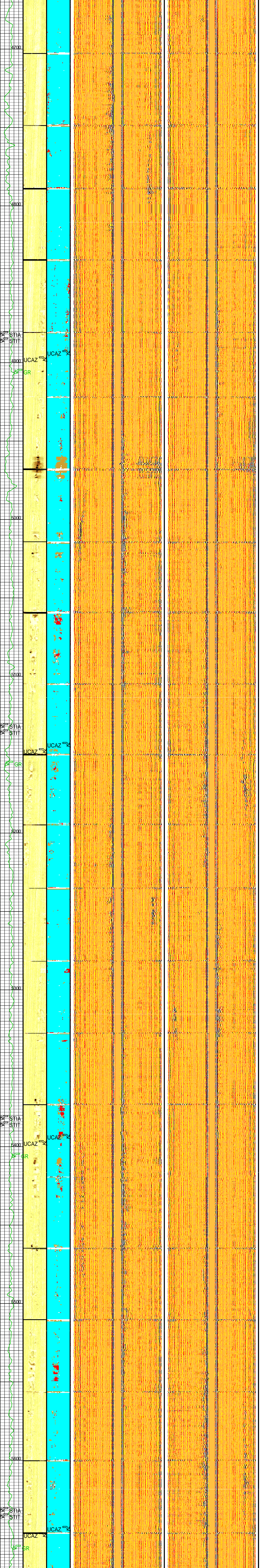
Input DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_030LUP	FN:29	PRODUCER	26-Mar-2011 04:11	9650.5 FT	3998.0 FT
Output DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_032PUP	FN:31	PRODUCER	26-Mar-2011 07:19	9658.5 FT	4006.0 FT

OP System Version: 18C0-147

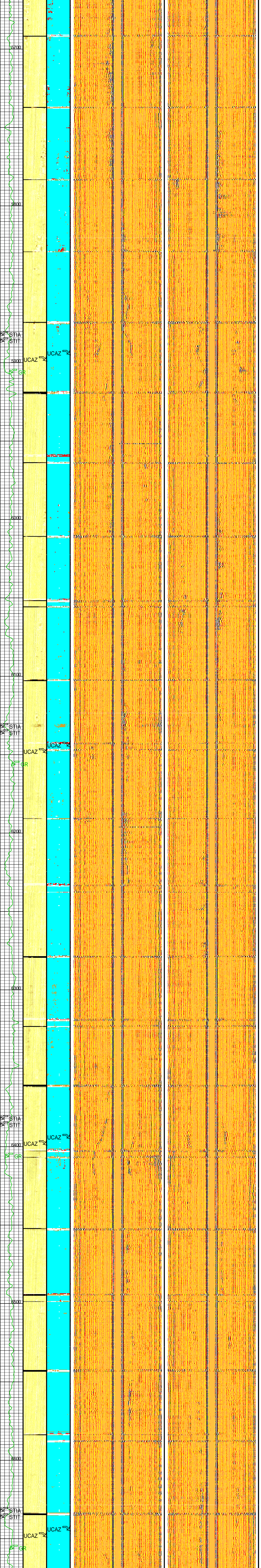
USIT-D	SRPC-3972-Q1_2010_OP18_b	HILTH-FTB	SRPC-3972-Q1_2010_OP18_b
DTC-H	18C0-147		



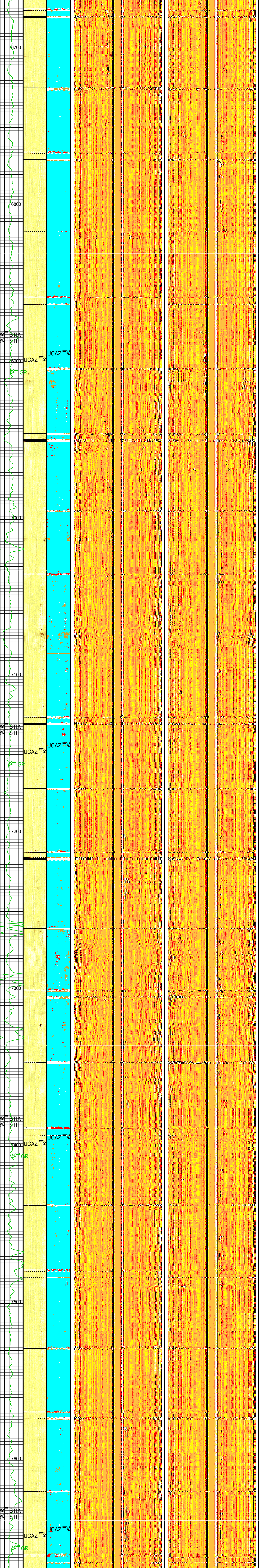




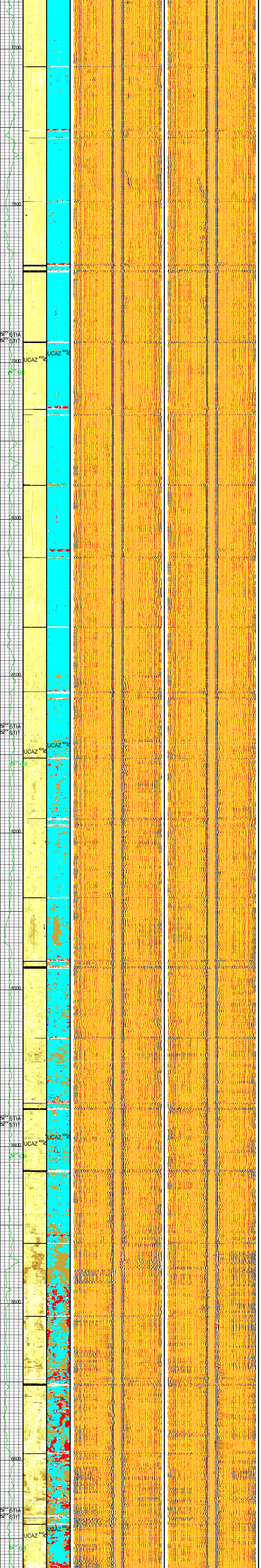




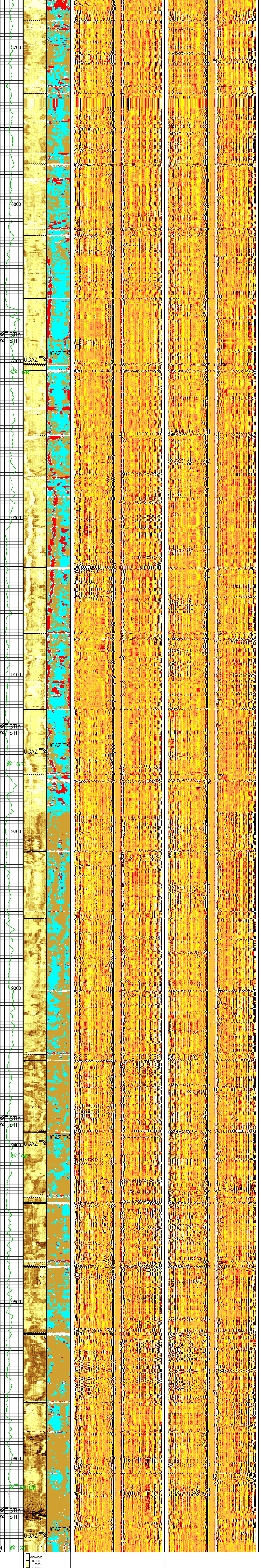








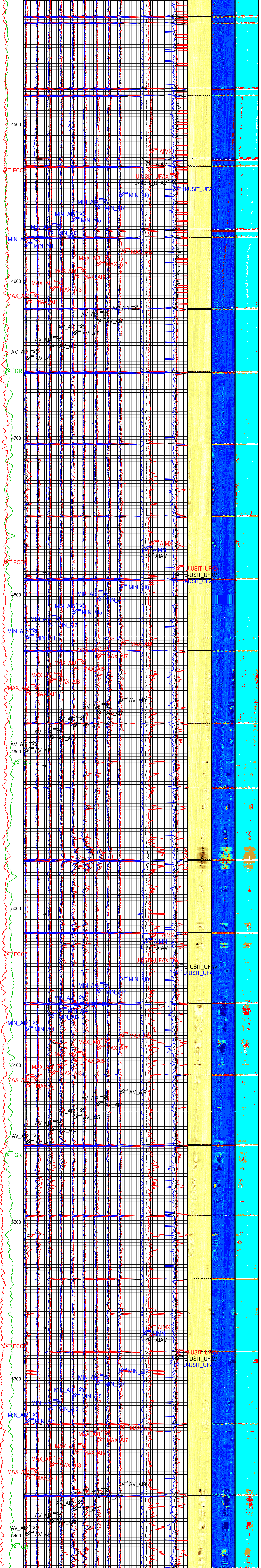




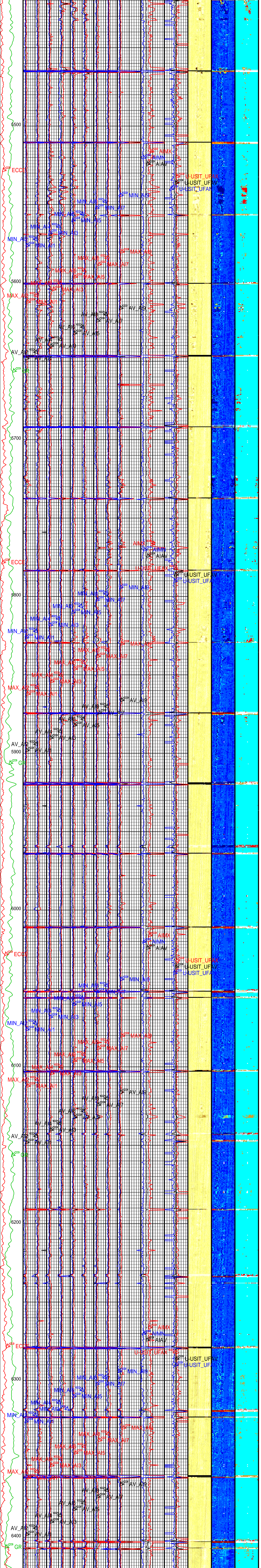


The figure consists of 12 panels arranged horizontally. The first 10 panels show a grid with red and blue lines representing trajectories. The 11th panel is a solid yellow rectangle. The 12th panel is a solid blue rectangle.

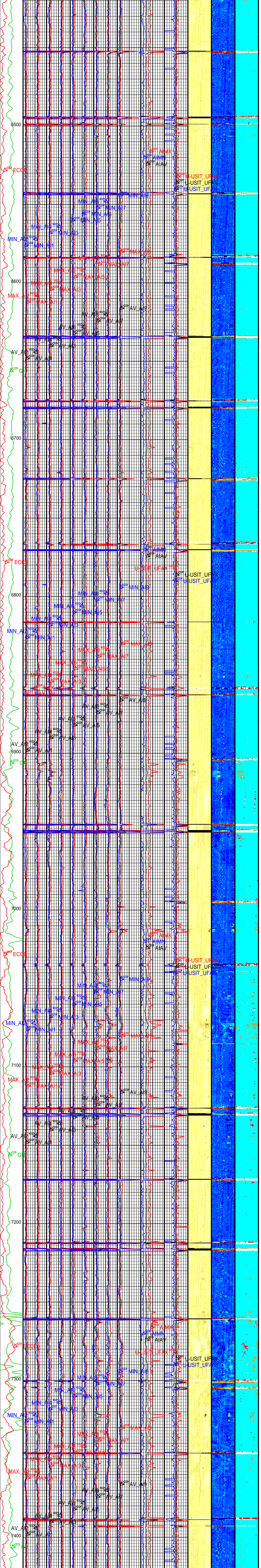




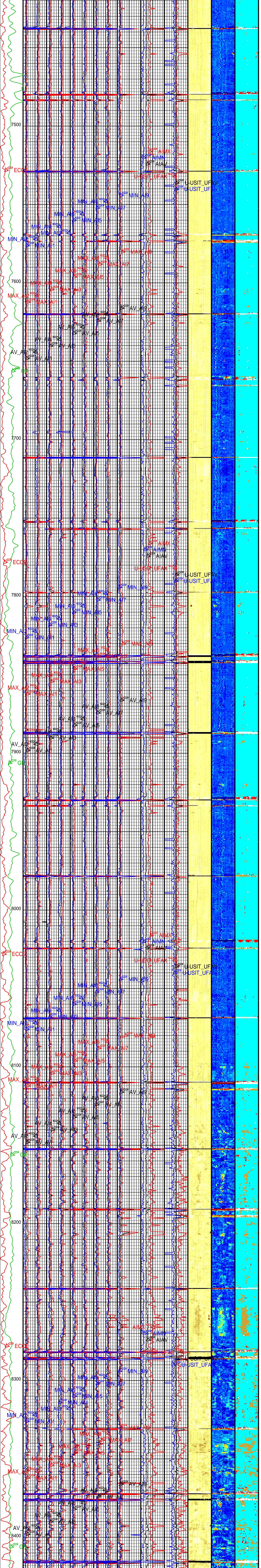




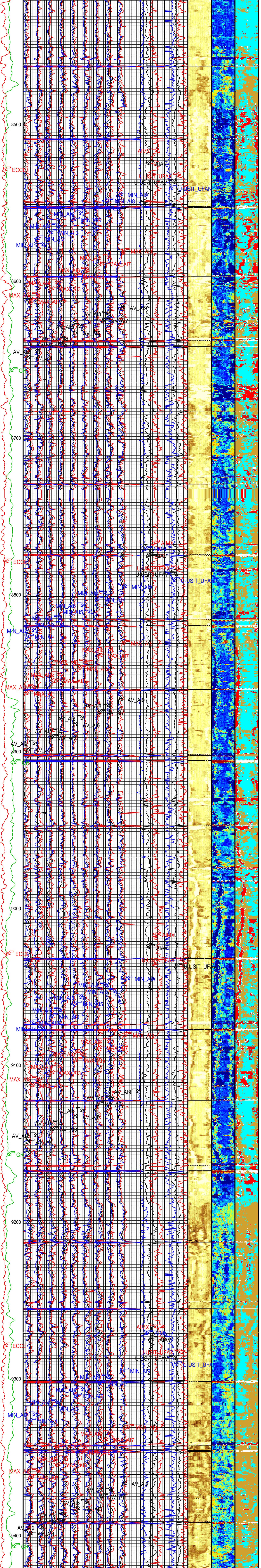


















	A12) (MRAY)	A14) (MRAY)	A16) (MRAY)	A18) (MRAY)	
	-7.5	7.5	-7.5	7.5	-7.5
	Minimum Acoustic Impedance #1 (MIN_ AI1) (MRAY)	Minimum Acoustic Impedance #3 (MIN_ AI3) (MRAY)	Minimum Acoustic Impedance #5 (MIN_ AI5) (MRAY)	Minimum Acoustic Impedance #7 (MIN_ AI7) (MRAY)	
	0	15	0	15	0
	Minimum Acoustic Impedance #2 (MIN_ AI2) (MRAY)	Minimum Acoustic Impedance #4 (MIN_ AI4) (MRAY)	Minimum Acoustic Impedance #6 (MIN_ AI6) (MRAY)	Minimum Acoustic Impedance #8 (MIN_ AI8) (MRAY)	
	-7.5	7.5	-7.5	7.5	-7.5

Format: M\_Goodwin\_Compressed      Vertical Scale: 0.1" per 100'      Graphics File Created: 26-Mar-2011 07:19

OP System Version: 18C0-147

USIT-D	SRPC-3972-Q1_2010_OP18_b	HILTH-FTB	SRPC-3972-Q1_2010_OP18_b
DTC-H	18C0-147		

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.

Input DLIS Files

DEFAULT	USI_TLD_MCFL_CNL_030LUP	FN:29	PRODUCER	26-Mar-2011 04:11	9650.5 FT	3998.0 FT
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Output DLIS Files

DEFAULT	USI_TLD_MCFL_CNL_032PUP	FN:31	PRODUCER	26-Mar-2011 07:19		
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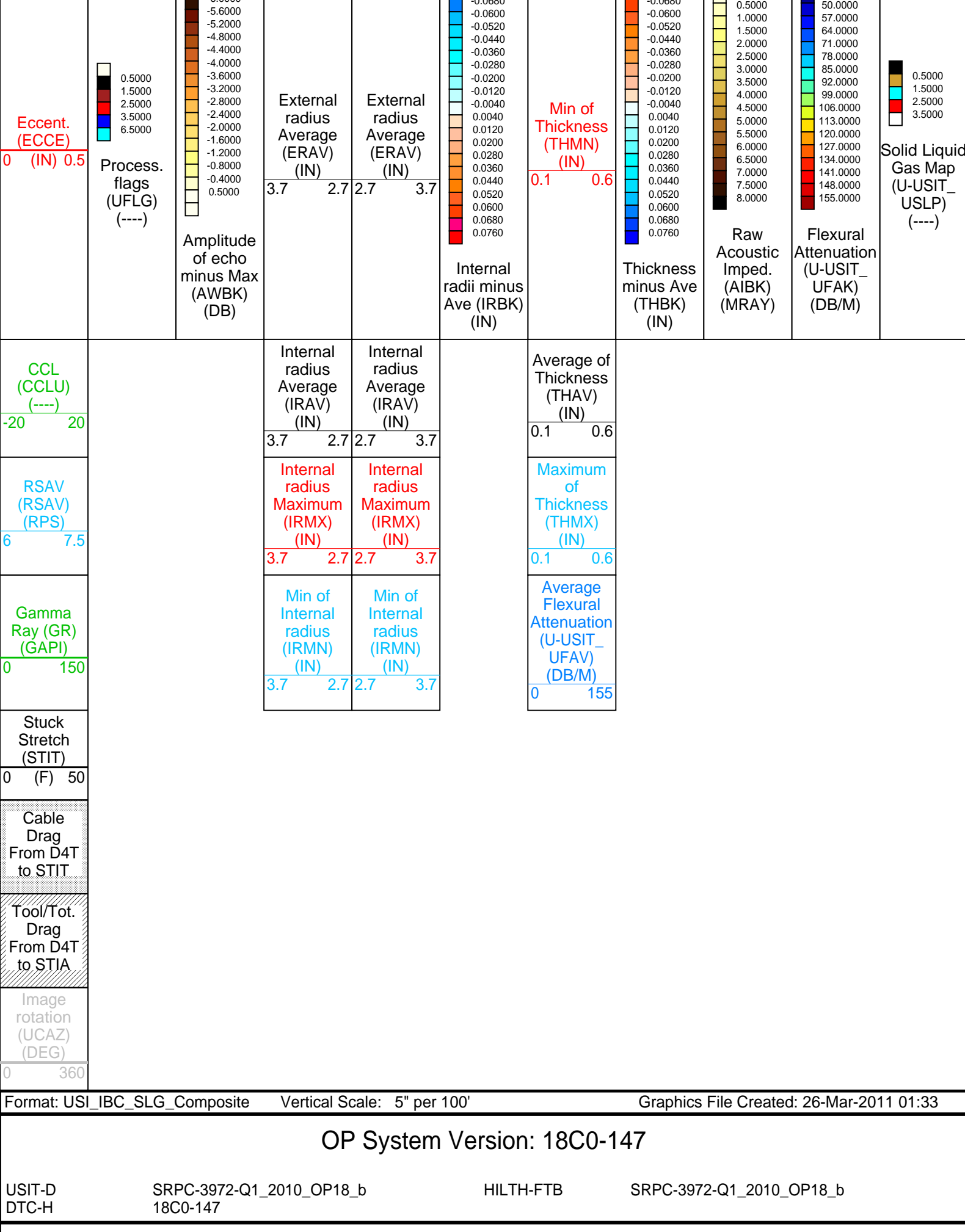
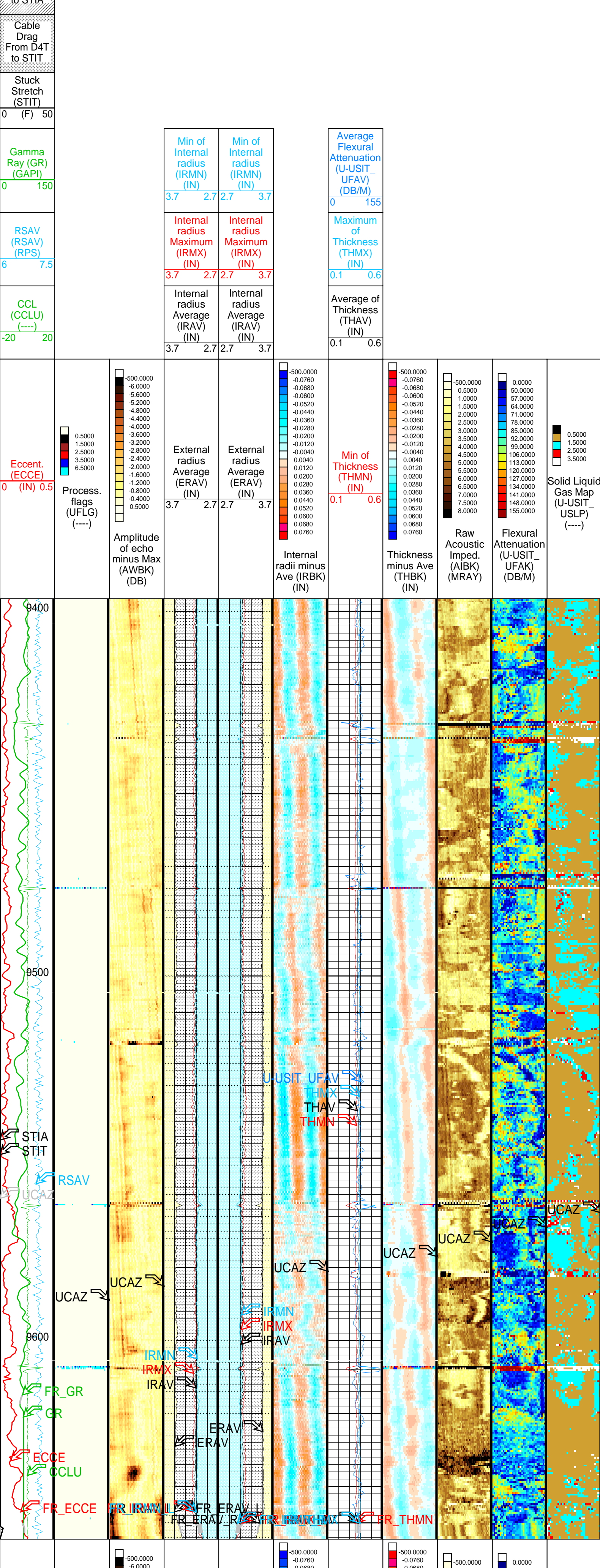
Repeat

MAXIS Field Log

Company: ExxonMobil Production Corp.					Well: PCU 296-5A7	
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Input DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_024LUP	FN:23	PRODUCER	26-Mar-2011 01:22	9650.5 FT	9392.2 FT
Output DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_025PUP	FN:24	PRODUCER	26-Mar-2011 01:32	9654.5 FT	9396.5 FT

OP System Version: 18C0-147						
USIT-D	SRPC-3972-Q1_2010_OP18_b	HILTH-FTB	SRPC-3972-Q1_2010_OP18_b			
DTC-H	18C0-147					



CCL (CCLU) (----)

-20 20

RSAV (RSAV) (RPS)

6 7.5

Gamma Ray (GR) (GAPI)

0 150

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_Composite      Vertical Scale: 5" per 100'      Graphics File Created: 26-Mar-2011 01:33				
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OP System Version: 18C0-147			
USIT-D	SRPC-3972-Q1_2010_OP18_b	HILTH-FTB	SRPC-3972-Q1_2010_OP18_b
DTC-H	18C0-147		

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	7 IN
CSDE	Casing Density	486.94 LBCF
CSVD	Casing Inner Diameter	6.276 IN
DFVL	Default Fluid Velocity	206 US/F
DOT	Diameter of Transducer Sensor	2.874 IN
EMXV	EMEX Voltage	40 V
FSOD	Fluid Slowness Fits Casing Outer Diameter	5_UFSL_N_ZMUD
IMAR	Image Rotation	OFF
MW	Mud Weight	8.4 LB/G
RCOD	Reference Calibrator Outer Diameter	7 IN
RCSO	Reference Calibrator Standoff	1.1811 IN
RCTH	Reference Calibrator Thickness	0.2952 IN
TCUB	Tx3 Processing Level	Vax_Loop
THDH	Maximum Search Thickness (percentage of nominal)	130



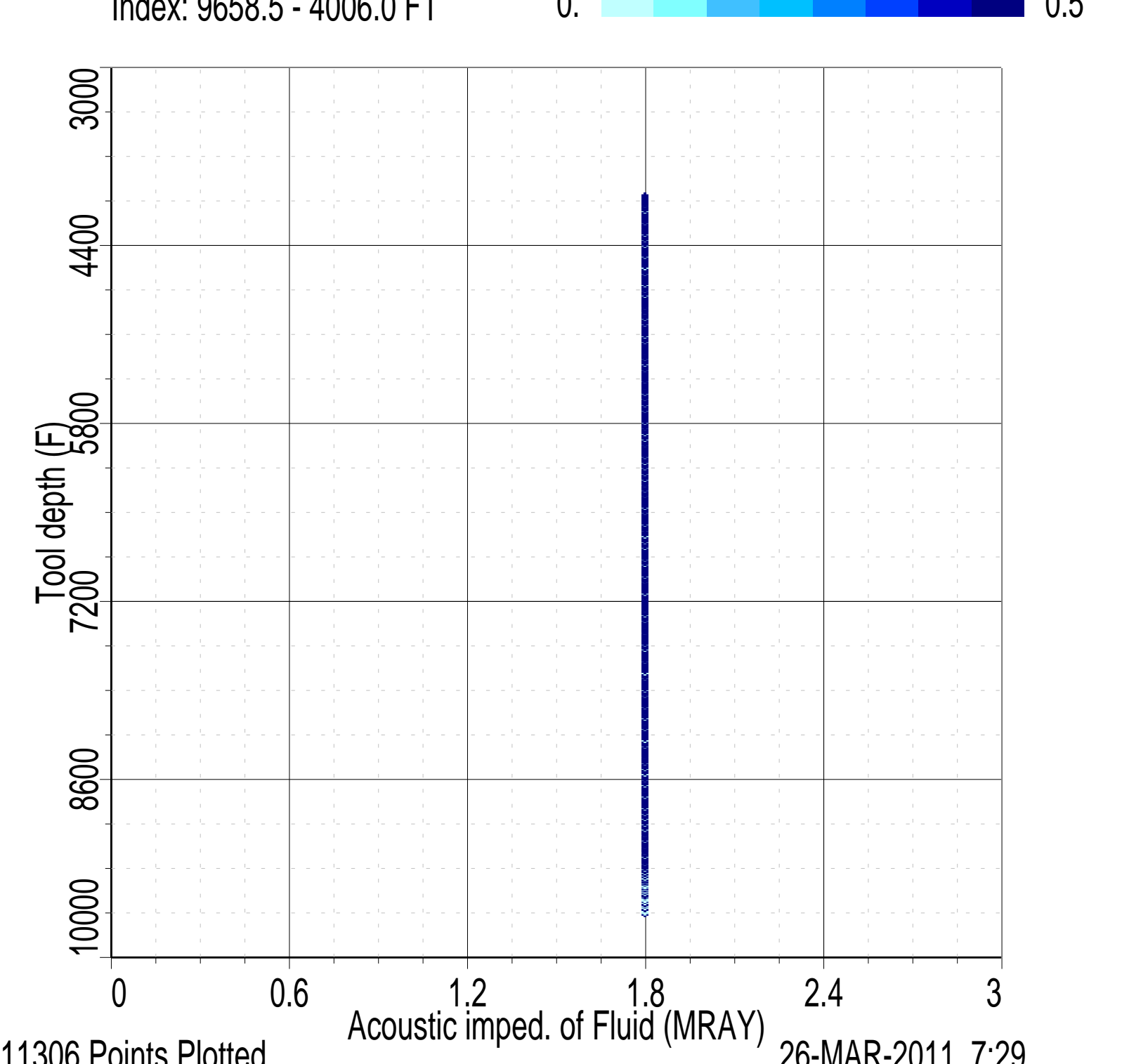
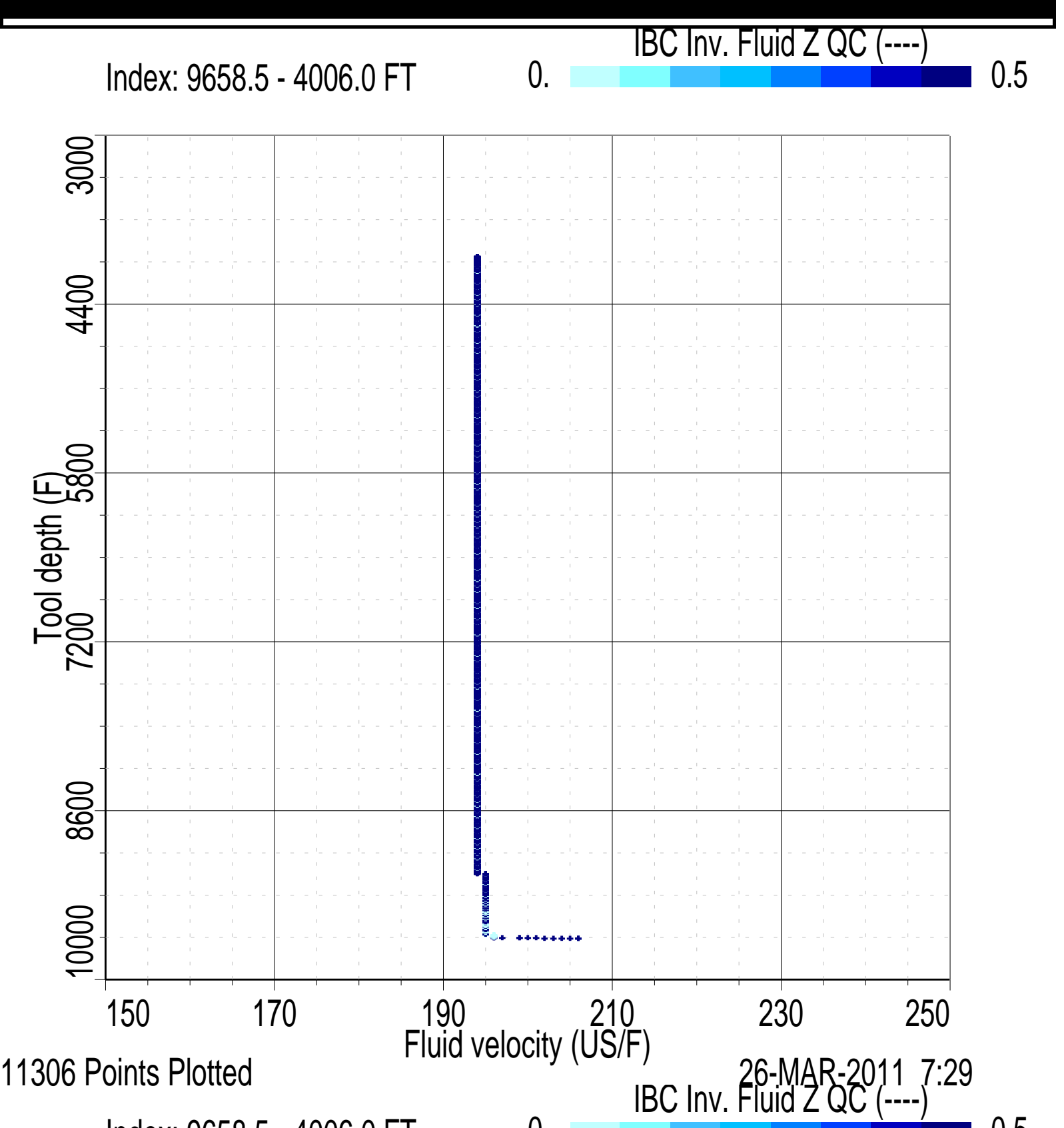
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.362	IN
U-USIT_CEMT	USIT Cement Type	LIGHT	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	MRAY
U-USIT_IISR	USIT IBC Inverted Fluid Slowness Resolution	1.0 US_P_FT	
U-USIT_IISR	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	-20	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_ibcs_B	
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_7_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T*3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.8	MRAY
ZTCS	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
STI: Stuck Tool Indicator	Trigger for MAXIS First Reading Label	STI	
LBFR	STI Stuck Threshold	2.5	FT
STKT	Total Depth - Driller	9781.00	FT
TDD	Total Depth - Logger	9670.00	FT
TDL	System and Miscellaneous		
BS	Bit Size	8.875	IN
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	4.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_024LUP	FN:23	PRODUCER	26-Mar-2011 01:22	9650.5 FT	9392.2 FT
Output DLIS Files						
DEFAULT	USI_TLD_MCFL_CNL_025PUP	FN:24	PRODUCER	26-Mar-2011 01:32		

Schlumberger

Fluid Properties

MAXIS Field Log



Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration							
Before: 23-Mar-2011 16:07							
Gamma Ray Background	30.00	N/A	53.42	N/A	N/A	N/A	GAPI
Gamma Ray (Jig - Bkgd)	165.0	N/A	168.5	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement							
Before: 23-Mar-2011 15:24							
CNTC Background	26.76	N/A	29.28	N/A	N/A	4.014	CPS
CFTC Background	25.67	N/A	32.85	N/A	N/A	3.851	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration							
Before: Calibration not done							
Z-Axis Acceleration	32.19	N/A	32.19	N/A	N/A	N/A	F/S2

The HGNS Neutron Master Calibration was done with the following parameters :		
NCT-B Water Temperature	55.9	DEGF.
Thermal Housing Size	3.378	IN.
NSR-F serial number	0	

High resolution Integrated Logging Tool-DTS / Equipment Identification	
Primary Equipment:	
HILT Gamma-Ray Neutron Sonde-DTS	HGNS - H
HGNS Gamma-Ray Device	HGR -
HGNS Neutron Detector with Alpha Source	HCNT - H
Z-Axis Accelerometer	HACC - H
Compensated Neutron Box	CNB - AB
HTBC Communication Assembly DTS Mode	HMCA - H
Auxiliary Equipment:	
Neutron Calibration Tank	NCT - B
Gamma Source Radioactive	GSR - U/Y
HGNS Housing	HGNH -

High resolution Integrated Logging Tool-DTS Wellsite Calibration					
Detector Calibration					
Phase	Gamma Ray Background	GAPI	Value	Gamma Ray (Jig - Bkgd)	GAPI
Before			53.42		168.5
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	157.1 (Minimum)	165.0 (Nominal)
Before: 23-Mar-2011 16:07					

High resolution Integrated Logging Tool-DTS Wellsite Calibration					
Zero Measurement					
Phase	CNTC Background	CPS	Value	Phase	CFTC Background
Before			29.28	Before	
	5.000 (Minimum)	26.76 (Nominal)	40.00 (Maximum)		25.67 (Nominal)
Before: 23-Mar-2011 15:24					

High resolution Integrated Logging Tool-DTS Wellsite Calibration		
Accelerometer Calibration		
Phase	Z-Axis Acceleration	F/S2
Before		32.19
	31.53 (Minimum)	32.19 (Nominal)
Before: Calibration not done		

DTS Telemetry Tool / Equipment Identification	
Primary Equipment:	
DTC-H Auxiliary Cartridge	DTCH - A
DTC-H Telemetry Cartridge	DTCH - A
Auxiliary Equipment:	
DTCH Telemetry Cartridge Housing	ECH - KC

Company: ExxonMobil Production Corp.		<b>Schlumberger</b>	
Well:	PCU 296-5A7		
Field:	Piceance Creek		
County:	Rio Blanco		
State:	Colorado		
IMAGING BEHIND CASING			
ULTRASONIC TOOL			
GAMMA RAY - CCLU			