



Company: OMV Australia Pty Ltd

Well: Baleen-4

Field: OMV-Baleen

State: Victoria

Country: Australia

USIT-GPIT-GF

Scale 1:200

ADG66 / AMG66 Zone 55  
Northings: 5 792 541.4 m  
Eastings: 626 675.90 m

Elev.: K.B. 25.0 m  
G.L. -53.1 m  
D.F. 25.0 m

LOCATION  
Permanent Datum: Mean Sea Level  
Log Measured From: Drill Floor  
Drilling Measured From: Drill Floor

Rig: Ocean Bounty  
Max. Well Deviation 10 deg  
Longitude 148 26' 34.417" E  
Latitude 38 00' 20.986" S

Logging Date 9-Oct-2004

Run Number 8

Depth Driller 336.7 m

Schlumberger Depth

Bottom Log Interval 328.0 m

Top Log Interval 75.0 m

Casing Fluid Type Oil-Based Mud

Salinity

Density 9.3 g/cm3

Fluid Level 0 m

BIT/CASING/TUBING STRING

Bit Size 16 in

From 112.0 m

To 336.7 m

Casing/Tubing Size 13.375 in

Weight 68 lbm/ft

Grade K-55

From 81.0 m

To 326.6 m

Maximum Recorded Temperatures 37 degC 37 37

Logger On Bottom 9-Oct-2004 17:20

Unit Number 25 VEA

Recorded By Toyin Awobadejo

Witnessed By Teasdale / Wakelin-King

Run 1

Run 2

Run 3

Oil Density  
Water Salinity  
Gas Gravity  
Bo

Bw

1/Bg

Bubble Point Pressure

Bubble Point Temperature

Solution GOR

Maximum Deviation

CEMENTING DATA

Primary/Squeeze

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

Unit Number

Recorded By

Witnessed By

<b>DEPTH SUMMARY LISTING</b>
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Date Created: 9-OCT-2004 20:09:48

Depth System Equipment	
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Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46V-XS
Serial Number:	1760	Serial Number:	1708	Serial Number:	73130
Calibration Date:	15-Jan-2004	Calibration Date:	22-Jan-04	Length:	7295.08 M
Calibrator Serial Number:	321	Calibrator Serial Number:	123		
Calibration Cable Type:	7-46V-XS	Calibration Gain:	0.91	Conveyance Method: Wireline	
Wheel Correction 1:	-2	Calibration Offset:	1052.00	Rig Type: Offshore_Floater_with_WMC	
Wheel Correction 2:	2				

Depth Control Parameters	
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Log Sequence:	First Log In the Well
Rig Up Length At Surface:	85.30 M
Rig Up Length At Bottom:	85.30 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	0.00 M
Tool Zero Check At Surface:	0.10 M

Depth Control Remarks	
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1. First run in hole procedure applied
2. -0.5m correction for Tide made.
- 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  
OS1: Back-off  
OS2:  
OS3:  
OS4:  
OS5:

OS1:	Back-off
OS2:	
OS3:	
OS4:	
OS5:	

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

OS1:  
OS2:  
OS3:  
OS4:  
OS5:

## REMARKS: RUN NUMBER 1

## REMARKS: RUN NUMBER 2

First run in hole procedure applied.

No repeat section done as per client request.

Aim of running USIT is to detect is there is a damage to casing while BHA was stuck.

3 thermometers run in the head, all reading 36.7 degc.


Circulation stopped at 11:10am 9th Oct 2004

TD not tagged.

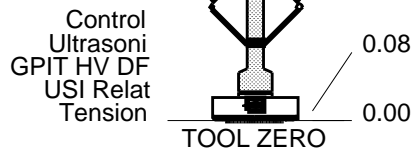
Crew:  
Rob Duncan, Tim Osler

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1			RUN 2		
SURFACE EQUIPMENT					
GSR-U/Y WITM (DTS)-A					
DOWNHOLE EQUIPMENT					
LEH-QT 1560 LEH-QT 1560		12.14			
					
DTC-H 8457 ECH-KC DTCH0-A 8457 DTCH1-A	CTEM	10.97 11.25			
	TelStatus ToolStatu	10.34			
SGT-N 9901 SGH-K SGC-TB SGD-TAA	Gamma Ray	10.06 10.34			
DTA-A ECH-KE DTA-A 8196		8.66			
GPIT-A/B GPIC-AC 735 GPIH-A		7.44			
USIT-A ECH-MRA USIC-A 853 USIS-A 790 USRS-D 755		6.23			





MAXIMUM STRING DIAMETER 8.66 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

Client: OMV Australia Pty Ltd

Well: Baleen-4

Field: OMV – Baleen

State: Victoria

Country: Australia

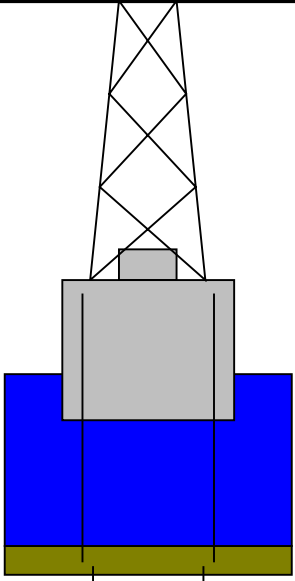
Drawing Date: 10/4/2004

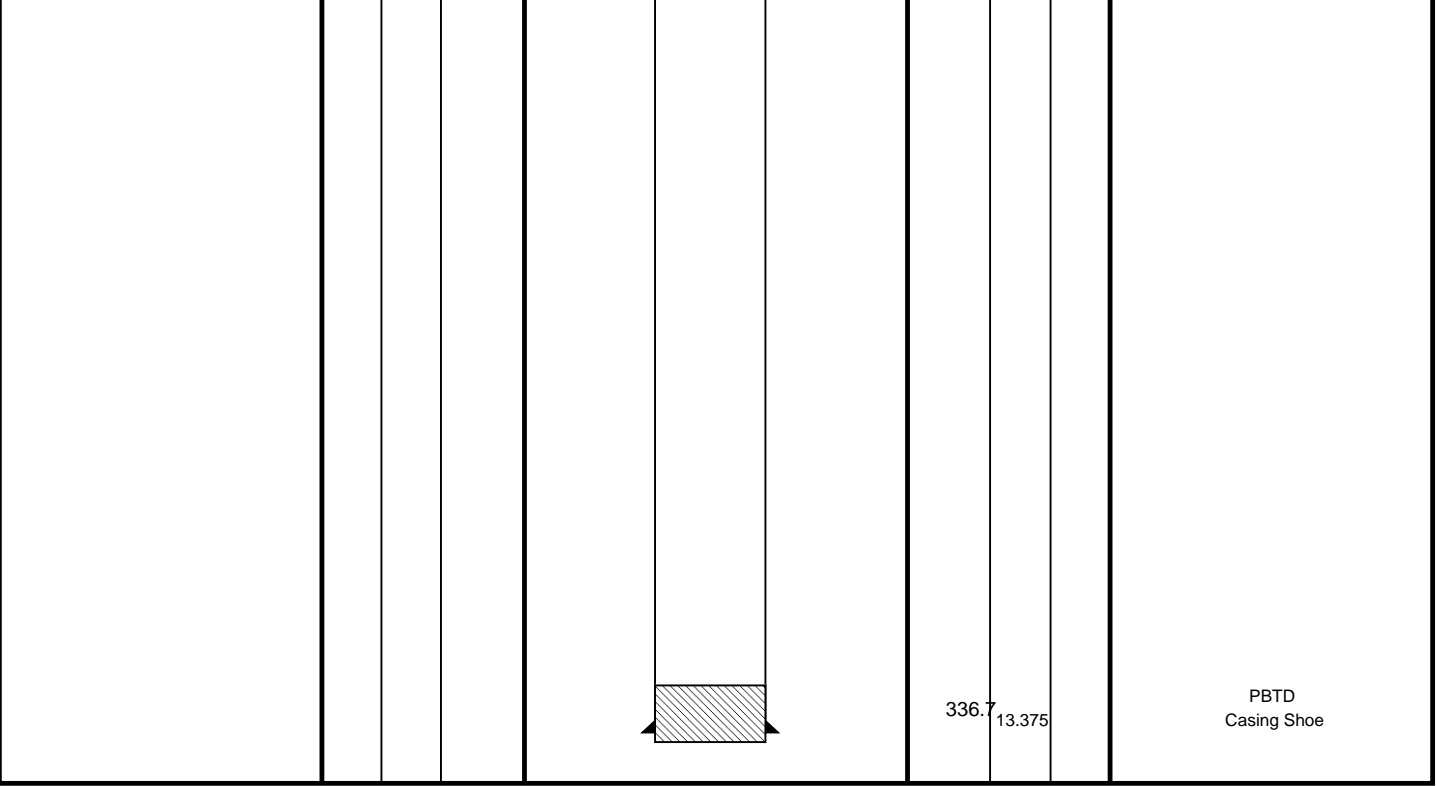
API #:

Rig Name: Ocean Bounty

Reference Datum: Mean Sea Level

Elevation: 25.0 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation Derrick Floor Elevation			0.0		0.0	20.000		Casing String
			0.0					
Mean Sea Level			25.0					
					81.0	20.000		Casing Shoe Casing String
					81.0	13.375		



# Main Log

MAXIS Field Log

Company: OMV Australia Pty Ltd Well: Baleen-4

Input DLIS Files						
DEFAULT	USI_057LUP	FN:49	PRODUCER	09-Oct-2004 18:08	327.8 M	71.3 M
Output DLIS Files						
DEFAULT	USI_062PUP	FN:54	PRODUCER	09-Oct-2004 21:10	327.8 M	71.8 M

OP System Version: 11C0-305			
MCM			
USIT-A	11C0-305	GPIT-A/B	11C0-305
OTA-A	OP11-KP1	SGT-N	11C0-305
DTC-H	11C0-305		

## Zoning of Mud Parameters

Depth

Fluid Velocity (DFVL)

Acoustic Impedance (ZMUD)

Image rotation (UCAZ) (DEG)

0360

Azimuth of eccent. (AZEC) (DEG)

0360

Cable Speed (CS) (F/HR)

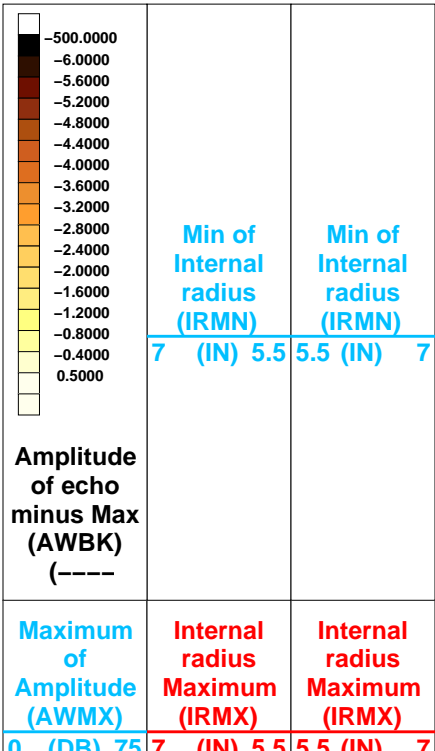
02000

Rev. speed (RSAV) (RPS)

-8-6

CCL (CCLU) (----

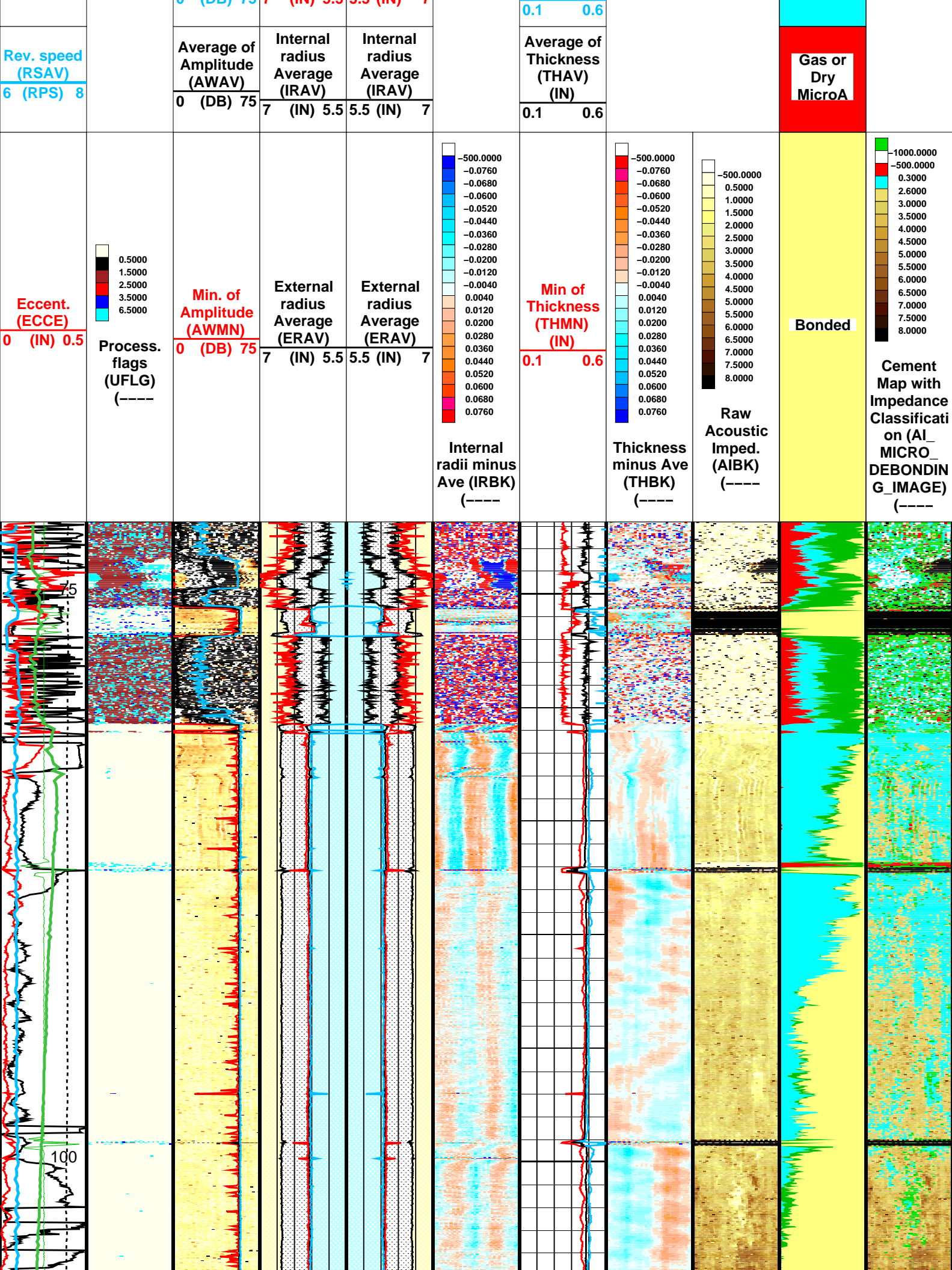
-2020



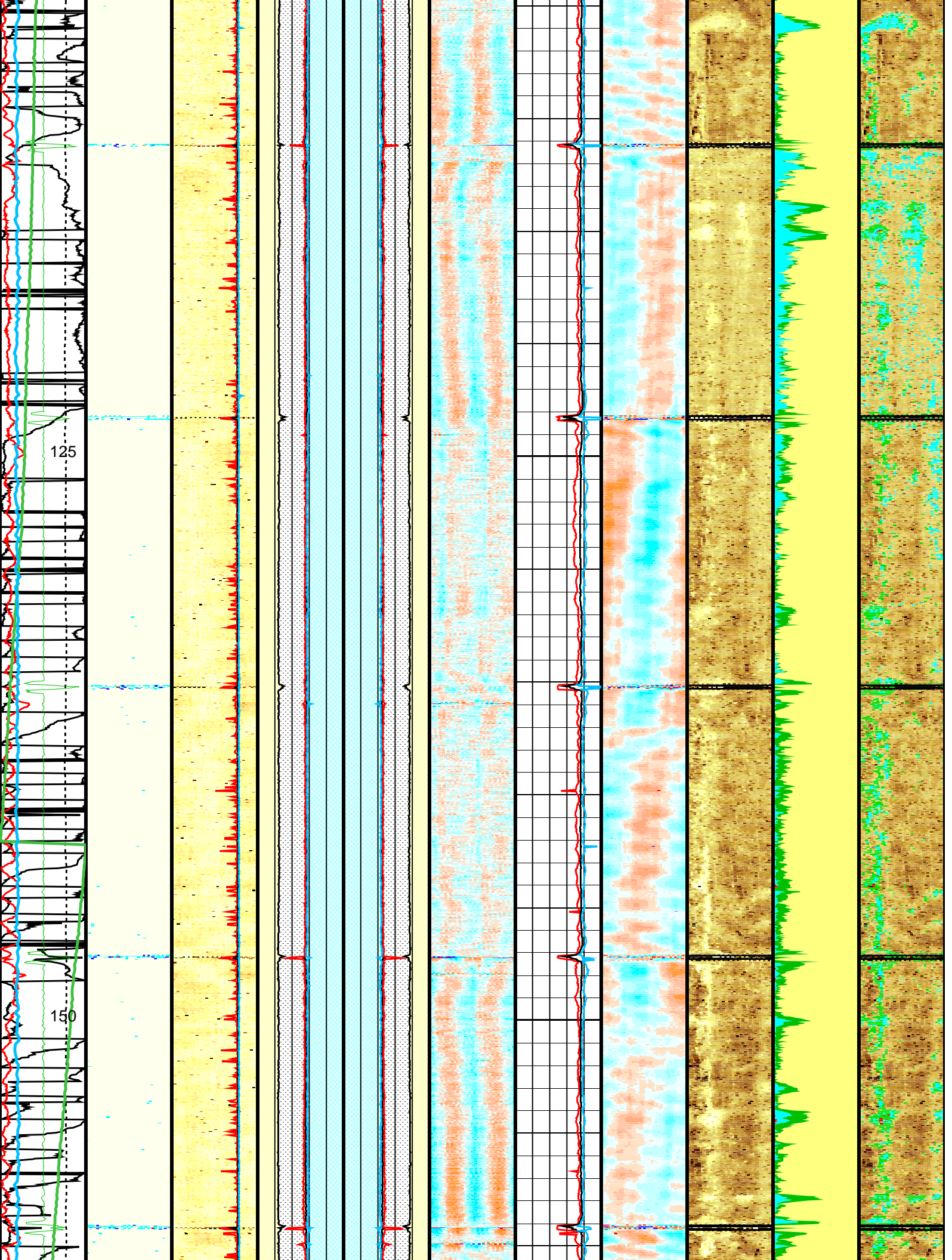
Maximum of Thickness (THMX) (IN)

Micro-debonding

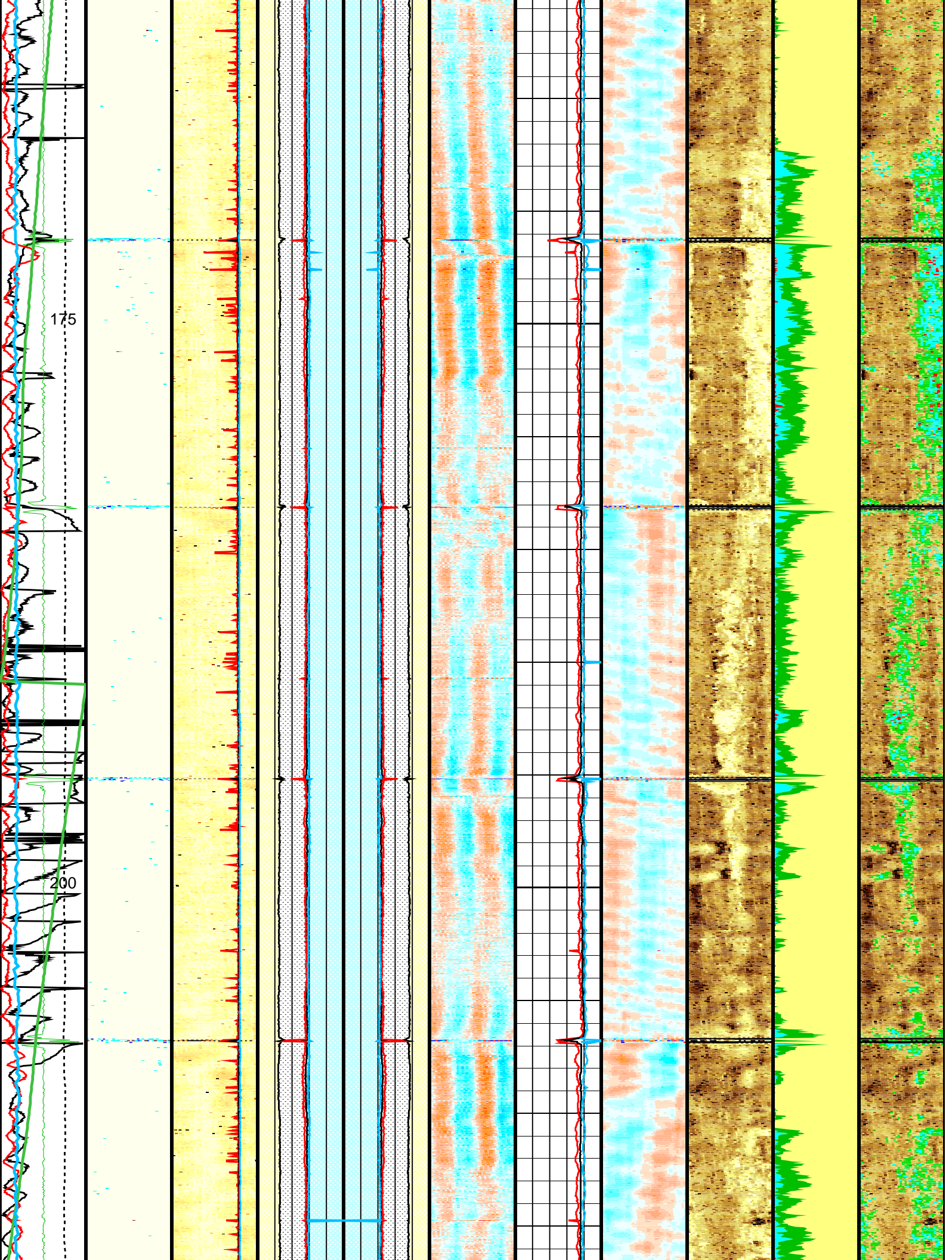
Liquid



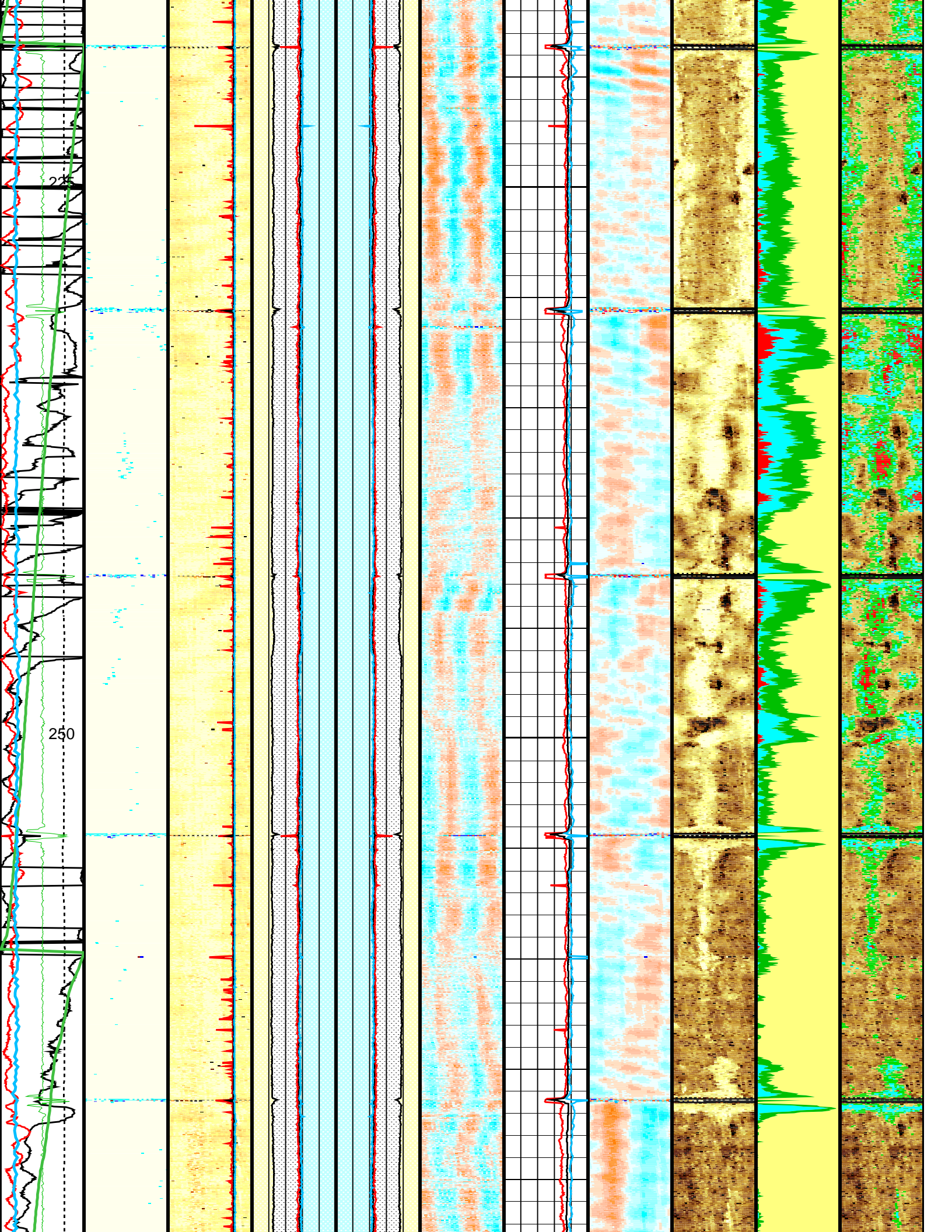




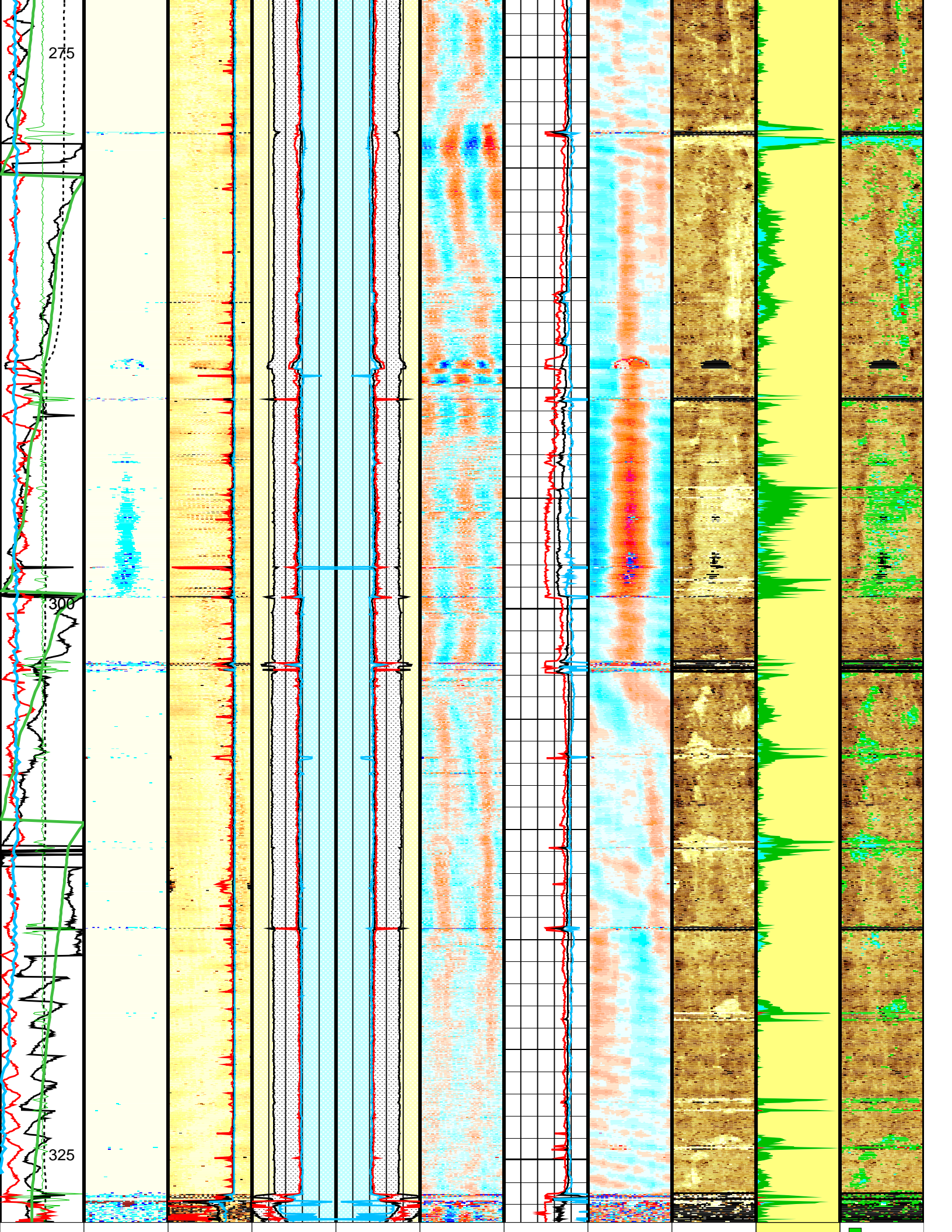




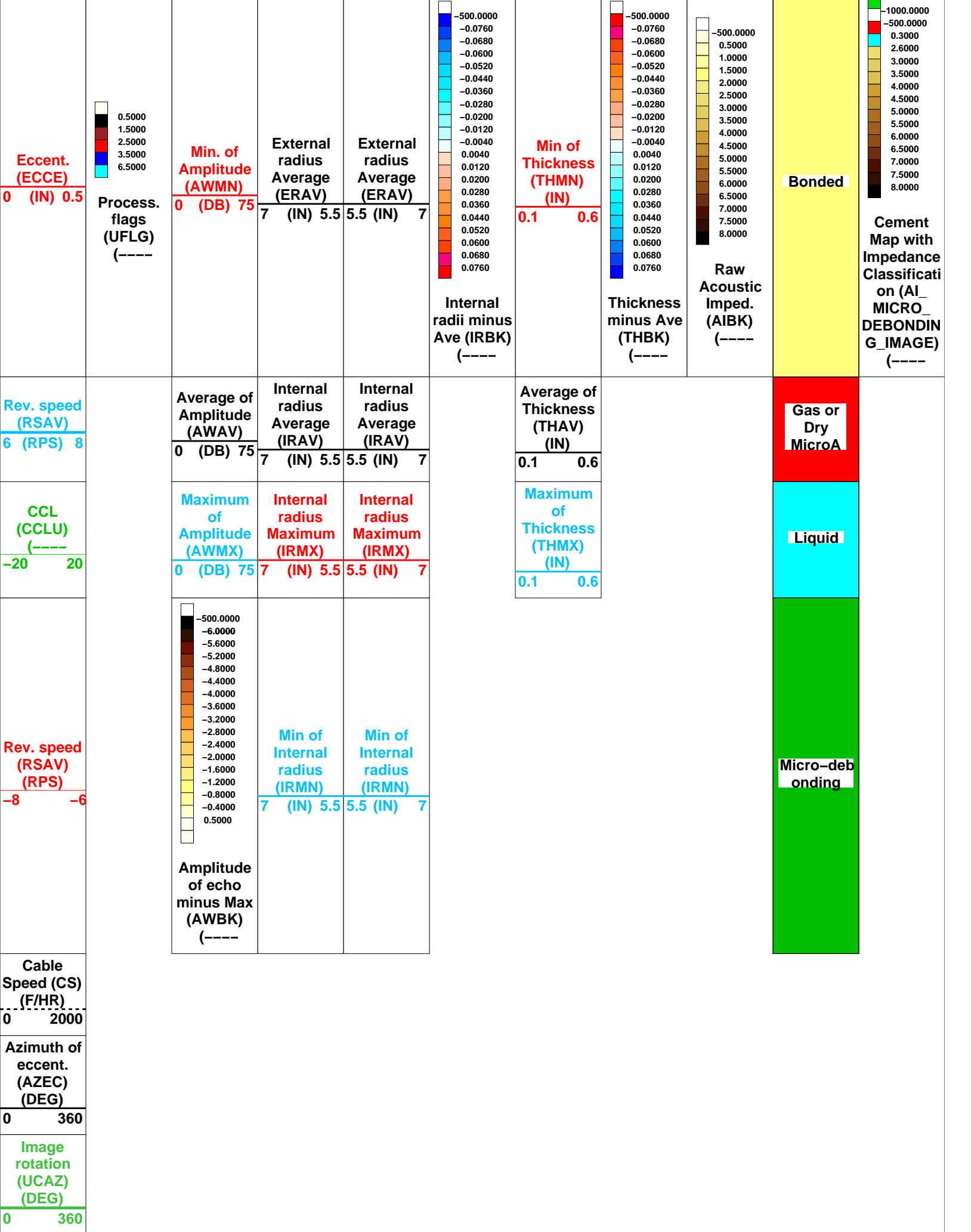












# OP System Version: 11C0-305

MCM

USIT-A	11C0-305	GPIT-A/B	11C0-305
DTA-A	OP11-KP1	SGT-N	11C0-305
DTC-H	11C0-305		

All USI Images are outside views

Center of image corresponds to bottom of casing

## COMPUTATION FLAGS LABELLING

(0 – 1.5)	UFLG 1	UTIM error
(1.5 – 2.5)	UFLG 2	Pulse origin not detected
(2.5 – 3.5)	UFLG 3	WINLEN error
<hr/>		
(3.5 – 6.5)	UFLG 4 UFLG 5 UFLG 6	CASING THICKNESS error
<hr/>		
(6.5 – 10)	UFLG 7 UFLG 8 UFLG 9	LOOP PROCESSING error

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-A: Ultrasonic Imaging			
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	48	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	13.625	IN
CSDE	Casing Density	7800	K/M3
CSID	Casing Inner Diameter	12.6755	IN
DFVL	Default Fluid Velocity	231.6	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	110	V
FDII	FPM Data Interpolation Interval	0	M
IMAR	Image Rotation	RB	
MW	Mud Weight	1.12	G/C3
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	
THNO	Nominal Thickness of Casing	0.474746	IN
UMAO	USIT Measurement Angular Offset	-10	DEG
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	10DEG_1_5IN_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	28.4687	US
ZCAS	Acoustic Impedance of Casing	46.2537	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.31	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
USPS: USIT Pipe Stats			
AGMN	Minimum Gain of Cartridge	-4	DB

AGMX	Maximum Gain of Cartridge	48	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	13.625	IN
CSDE	Casing Density	7800	K/M3
CSID	Casing Inner Diameter	12.6755	IN
DFVL	Default Fluid Velocity	231.6	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	110	V
FDII	FPM Data Interpolation Interval	0	M
IMAR	Image Rotation	RB	
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ZMUD	Acoustic Impedance of Mud	1.31	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
System and Miscellaneous			
CWEI	Casing Weight	68.00	LB/F
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

### Input DLIS Files

DEFAULT	USI_057LUP	FN:49	PRODUCER	09-Oct-2004 18:08	327.8 M	71.3 M
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### Output DLIS Files

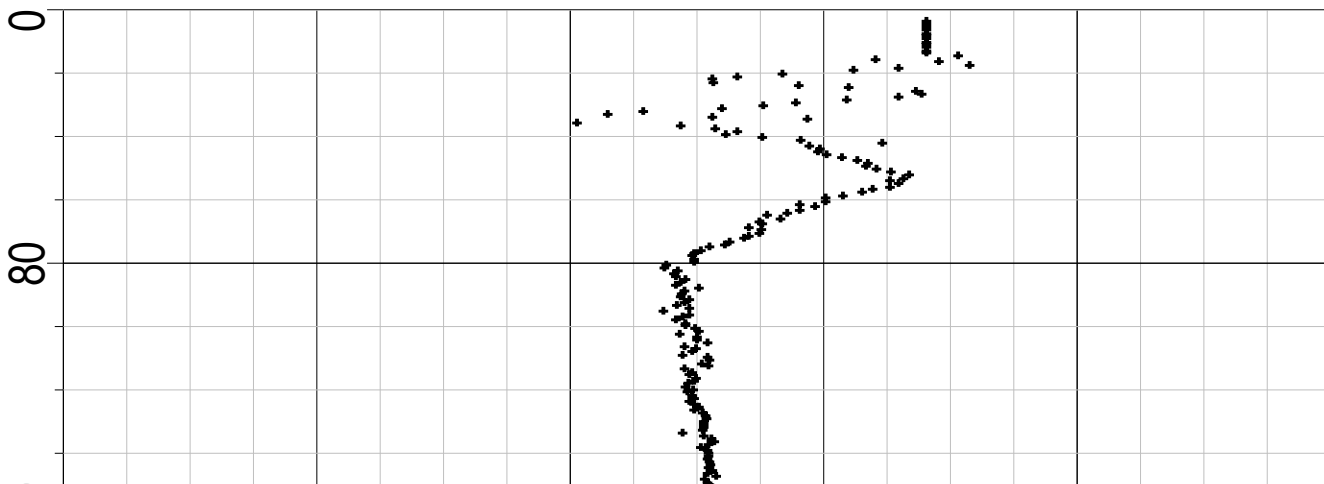
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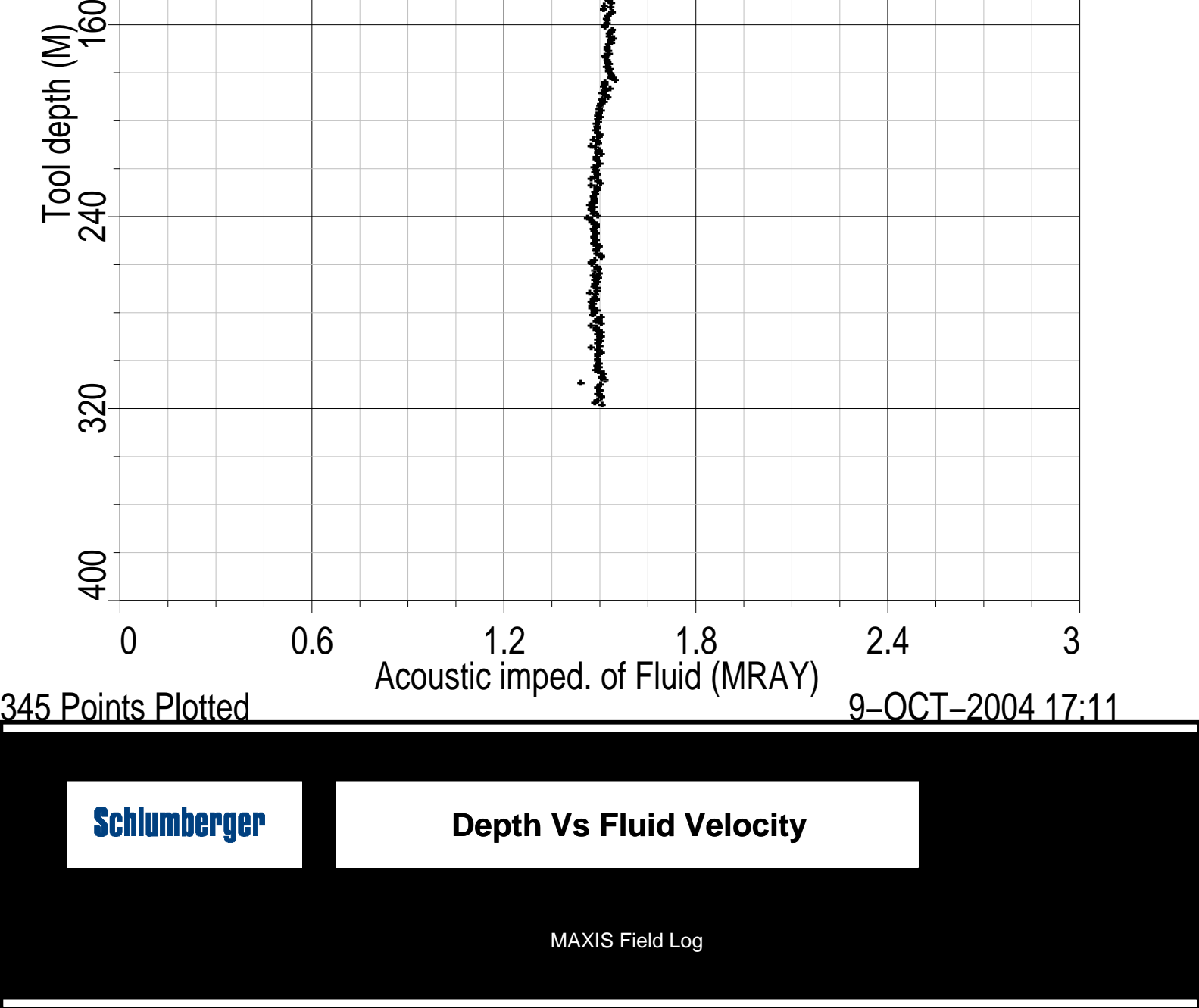
**Schlumberger**

**Depth Vs Zmud**

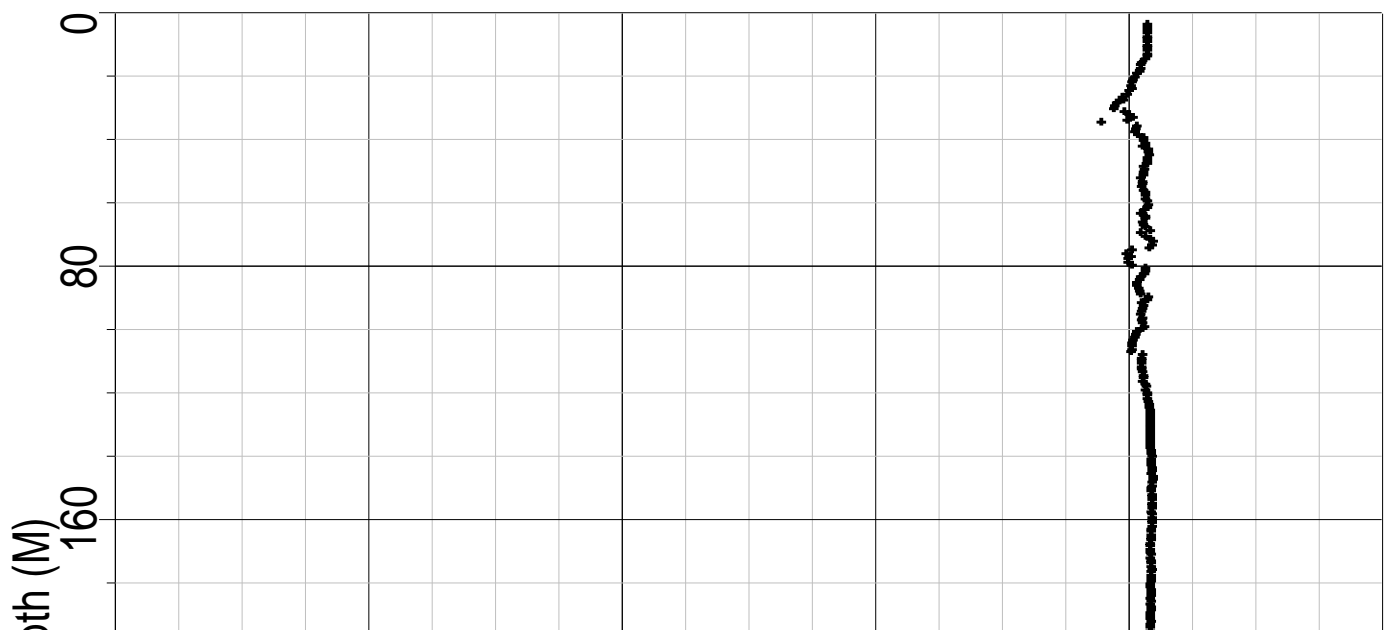
MAXIS Field Log

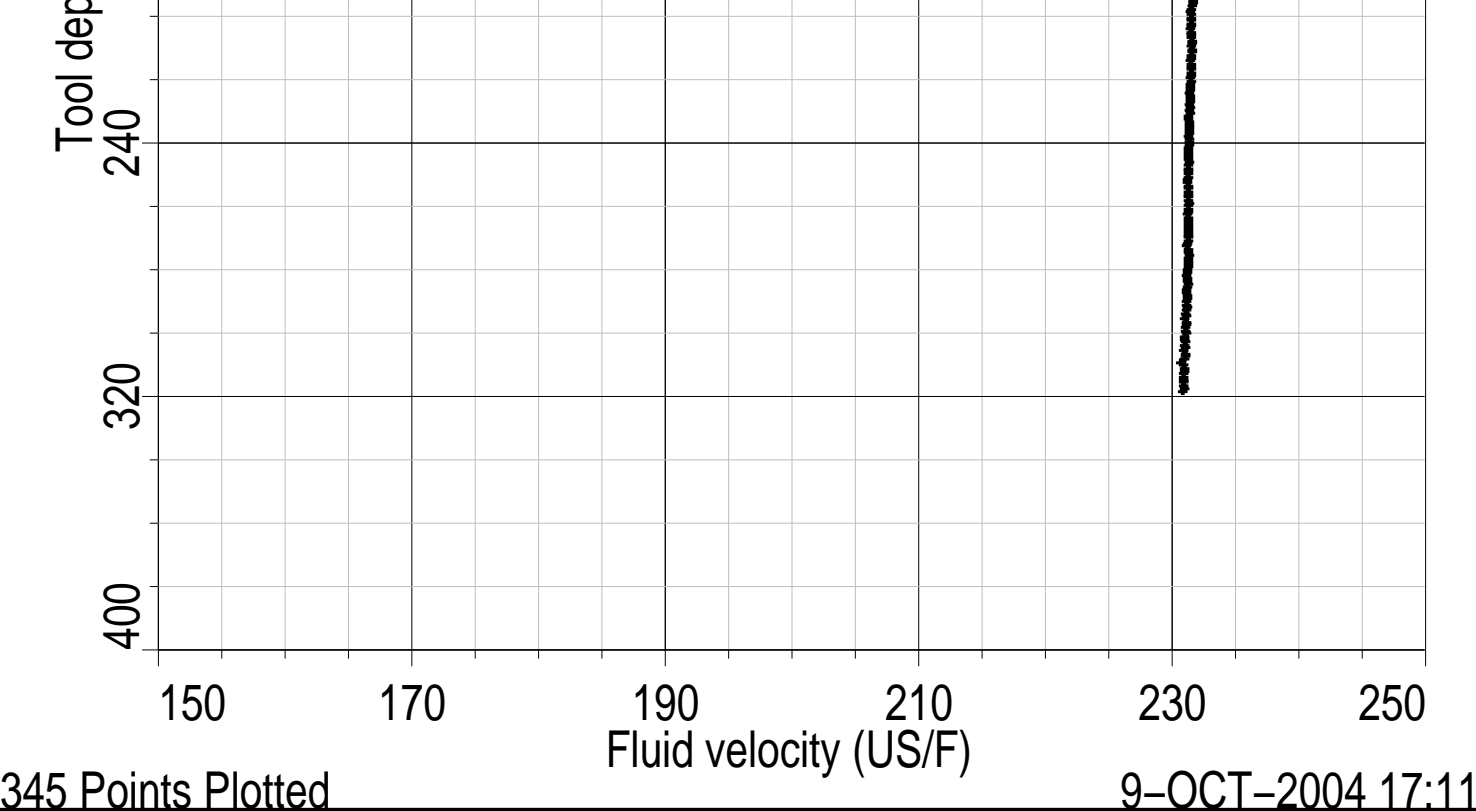
Index: 3.7 – 318.2 M





Index: 3.7 – 318.2 M





**Schlumberger**

## Calibration

MAXIS Field Log

### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
General Purpose Inclinator Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 9-Oct-2004 2:09							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	95	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	292	N/A	N/A	N/A	
General Purpose Inclinator Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 9-Oct-2004 2:09							
TEMPERATURE REFERENCE :	N/A	N/A	31	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	173	N/A	N/A	N/A	
Scintillation Gamma-Ray – N Wellsite Calibration – Detector Calibration							
Before: 9-Oct-2004 2:10							
Gamma Ray (Jig – Bkg)	159.6	N/A	159.6	N/A	N/A	14.51	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

### General Purpose Inclinator / Equipment Identification

Primary Equipment:  
GPIT Cartridge – AC

GPIC – AC

735

735

Scintillation Gamma–Ray – N / Equipment Identification

Primary Equipment:

Scintillation Gamma Cartridge

Scintillation Gamma Detector

Auxiliary Equipment:

Scintillation Gamma Housing

Gamma Source Radioactive

SGC – TB

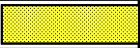


SGD – TAA

SGH – K

GSR – U/Y

Scintillation Gamma–Ray – N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig – Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			3.810	Before			159.6	Before			165.0
0	30.00	120.0		145.1	159.6	174.1		150.0	165.0	180.0	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	

Before: 9–Oct–2004 2:10

Company: OMV Australia Pty Ltd

Well: Baleen–4

Field: OMV–Baleen

State: Victoria

Country: Australia



USIT–GPIT–GF

Scale 1:200