

**Company:** Lamont Doherty

**Well:** Expedition 327 Site U1362A

**Field:** Juan de Fuca

**Rig:** JOIDES Resolution Country: USA

Ultrasonic Borehole Image (UBI)

**Rig:** JOIDES Resolution  
**Field:** Juan de Fuca  
**Location:** Latitude: N 47° 45.499'  
**Well:** Expedition 327 Site U1362A  
**Company:** Lamont Doherty

LOCATION			
Latitude: N 47° 45.499'	Elev.: K.B. 2672.00 m		
Longitude: W 127° 45.752'	G.L. 0.00 m		
Permanent Datum: _____	Sea Floor _____		
Log Measured From: _____	Drill Floor _____	Elev.: 0.00 m	2672.00 m above Perm. Datum
Drilling Measured From: _____	Drill Floor _____		
Ocean: Pacific	Max. Well Deviation 0 deg	Longitude N 47° 45.499'	Latitude W 127° 45.752'

Logging Date	12-Aug-2010		
Run Number	1		
Depth Driller	3200 m		
Schlumberger Depth	3179 m		
Bottom Log Interval	3179 m		
Top Log Interval	2980.5 m		
Casing Driller Size @ Depth	10.750 in @ 2980.5 m		
Casing Schlumberger	2980.5 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater		
Density	1.03 g/cm3		
Fluid Loss	PH		
Source Of Sample	N/A		

RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF	RMC	N/A	N/A
RM @ MRT	RMF @ MRT	@ 15	@ 15
Maximum Recorded Temperatures	15 degC		
Circulation Stopped	Time	1-Jan-2010	23:00
Logger On Bottom	Time	12-Aug-2010	8:30
Unit Number	Location	625003	Houston
Recorded By	C. Furman		
Witnessed By	S. Mrozewski		

Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			

RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF	RMC		
RM @ MRT	RMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			
Witnessed By			

Run 1

Run 2

R

DISCLAIMER

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OTHER SERVICES1

- OS1: HNGS
- OS2: HLDS
- OS3: MTT

REMARKS: RUN NUMBER 1

Logs run in first hole ("A" hole) of drilling site U1362 for the primary purpose of evaluating borehole condition in preparation to set a drilling packer for a formation injectivity test.

UBI tool centralized using integrated bowspring arms and run with USRS-A due to pipe ID restrictions.

Fluid Properties Mode (FPM) recorded on the downlog; FVEL= 200 uS/ft

First Pass recorded in 250 kHz x 140 samples/depth x 1 inch vertical sampling.

Second Pass recorded in 250 kHz x 180 samples/depth x 0.4 inch vertical sampling.

Third Pass recorded in 500 kHz x 180 samples/depth x 0.2 inch vertical sampling.

Third Pass recorded properly only until 3110m due to questionable borehole conditions.

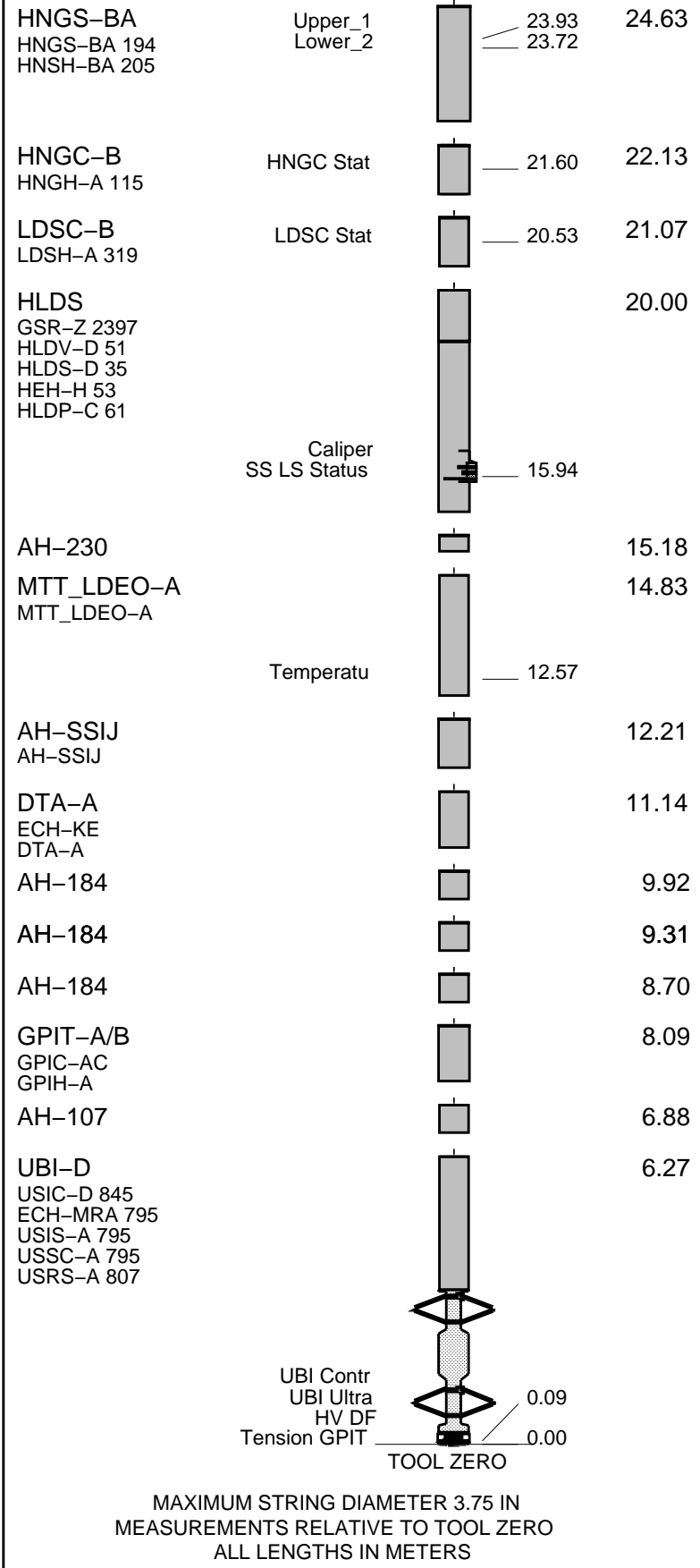
All logs recorded depth measured from drill floor and adjusted to match driller's casing shoe.

Logging tools stopped at a maximum depth of 3179mbrf to maintain a safe margin above the latest fill level, 3184mbrf.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 17C0-154			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

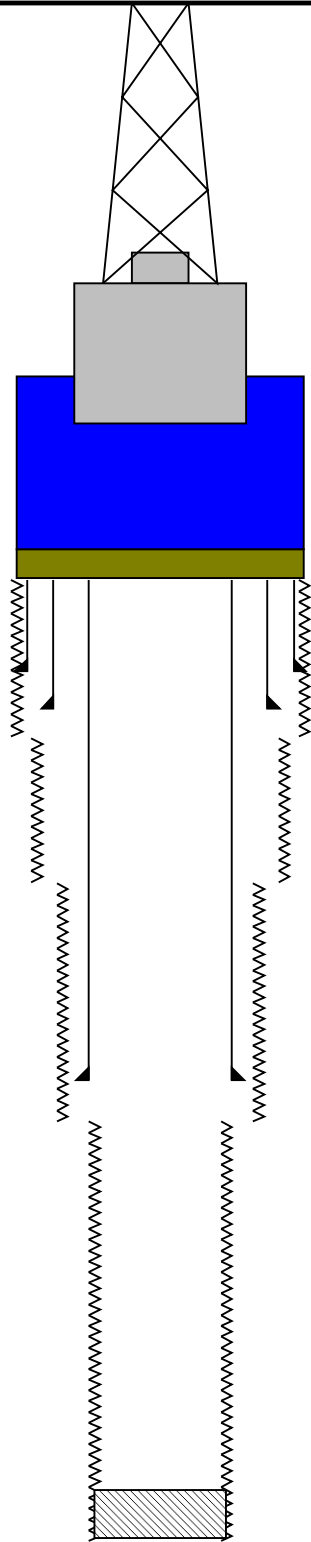
RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U 616008 WITM (DTS)-A			
DOWNHOLE EQUIPMENT			
BSP	SP SPARC	— 26.44	26.44
LEH-QT			26.44
LEH-QT 301			
DTC-H	CTEM	— 25.27	25.55
ECH-KC	TelStatus		
	ToolStatu	— 24.63	



Production String	(in) (m)	Well Schematic	(m) (in)	Casing String
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Kelly Bushing Elevation  
 Derrick Floor Elevation  
 Mean Sea Level

11.0  
 11.0  
 0.0



2672.0

Sea Bed

2725.0

20.000

Casing Shoe

2902.0

16.000

Casing Shoe

2907.7

21.500

Borehole Segment Bottom

2914.0

18.500

Borehole Segment Bottom

2980.5

10.750

Casing Shoe

3018.0

14.750

Borehole Segment Bottom

3184.0

Fill Identified by Last Wiper Trip

3200.0

9.875

Driller's Total Depth



**First Pass  
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 327 Site U1362A

**Input DLIS Files**

DEFAULT	UBI_MTT_LDEO_LDL_014LUP	FN:13	PRODUCER	12-Aug-2010 08:32	3177.5 M	2943.8 M
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**Output DLIS Files**

DEFAULT	UBI_MTT_LDEO_LDL_037PUP	FN:36	PRODUCER	12-Aug-2010 21:36	3179.8 M	2946.2 M
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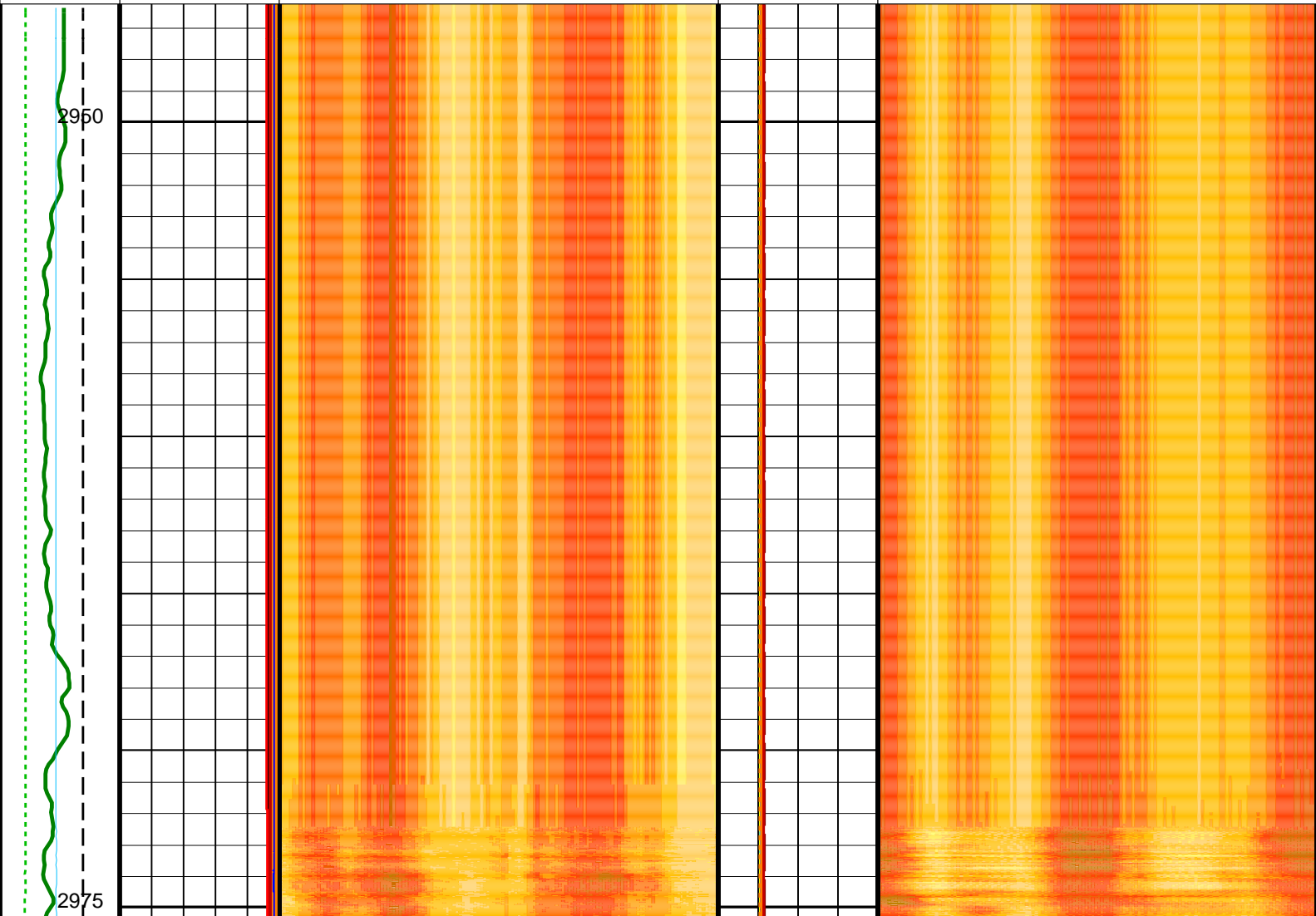
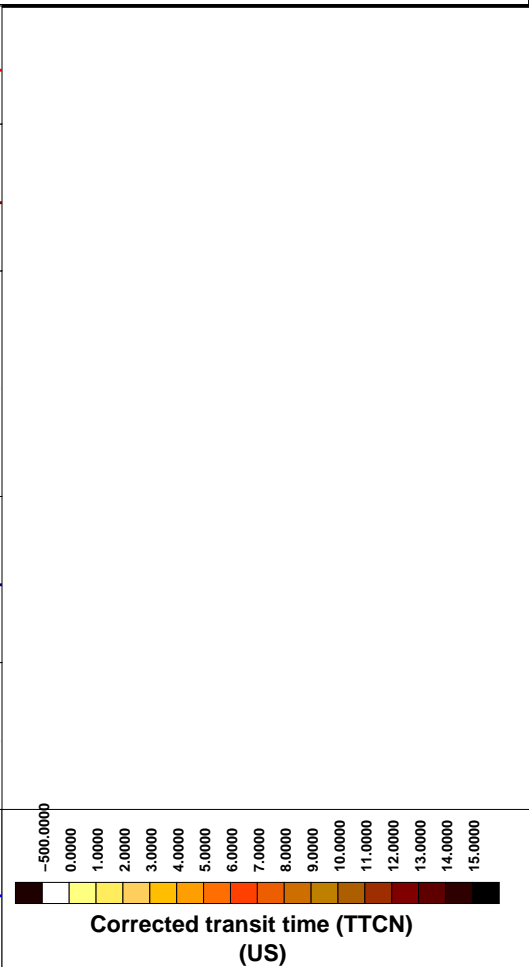
**OP System Version: 17C0-154**

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL

	<b>HIGH Amplitude (FA75)</b> 0 (DB) 50
<b>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</b> 0 30	<b>MEDIAN of Amplitude (FAED)</b> 0 (DB) 50
<b>Fluid velocity (CFVL) (US/M)</b> 450 750	<b>Maximum of Amplitude (UAMX)</b> 0 (DB) 50
<b>Cable Speed (CS) (F/HR)</b> 0 3000	<b>Min. of Amplitude (UAMN)</b> 0 (DB) 50
<b>Rev. speed (RAV) (RPS)</b> 6 8	<b>LOW Amplitude (FA25)</b> 0 (DB) 50



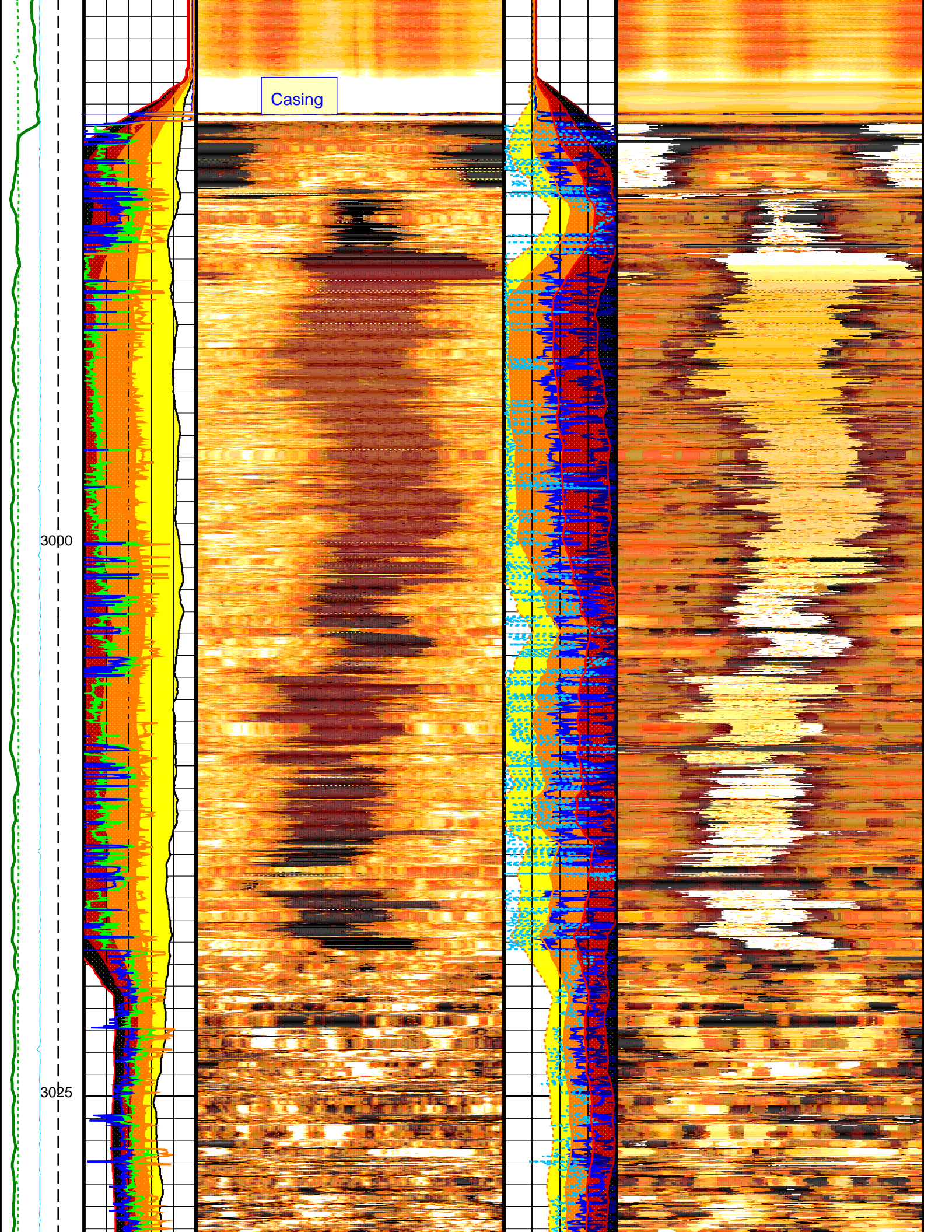
<b>MEDIAN Radius (TMED)</b> 4 (IN) 8
<b>Radius max (UTMX)</b> 4 (IN) 8
<b>Radius min (UTMN)</b> 4 (IN) 8
<b>Radius HIGH (FT75)</b> 4 (IN) 8
<b>Radius LOW (FT25)</b> 4 (IN) 8
<b>MEDIAN Radius (FTED)</b> 4 (IN) 8

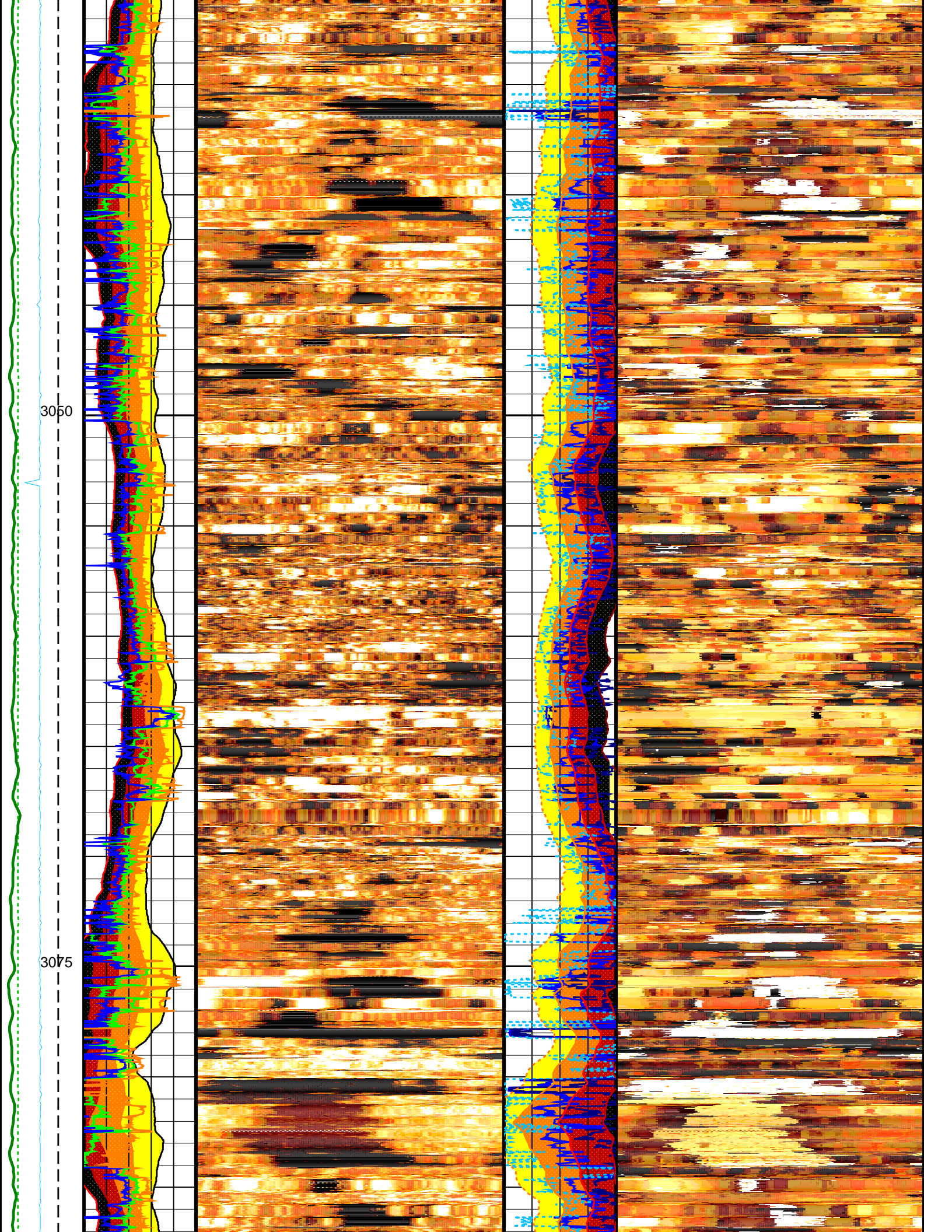


Casing

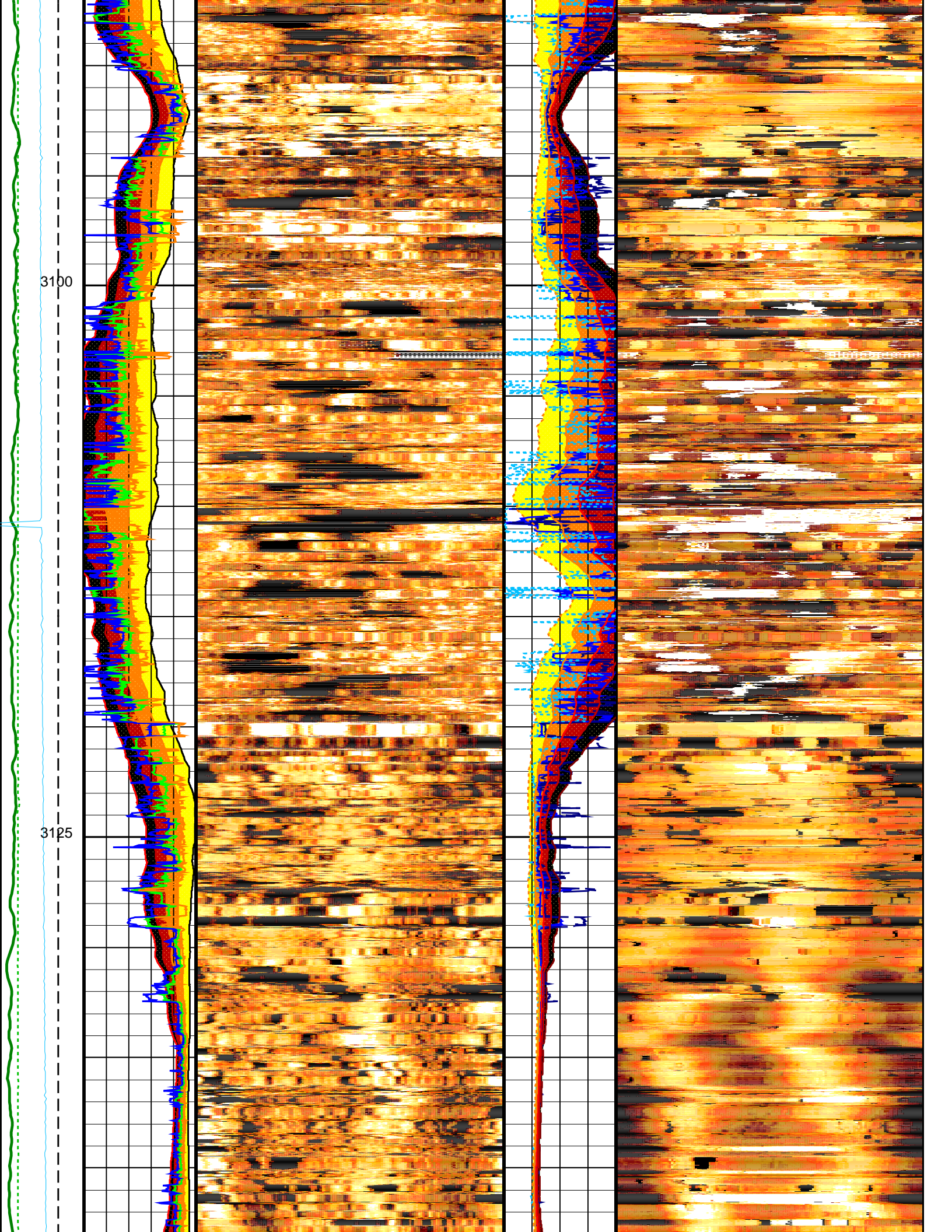
3000

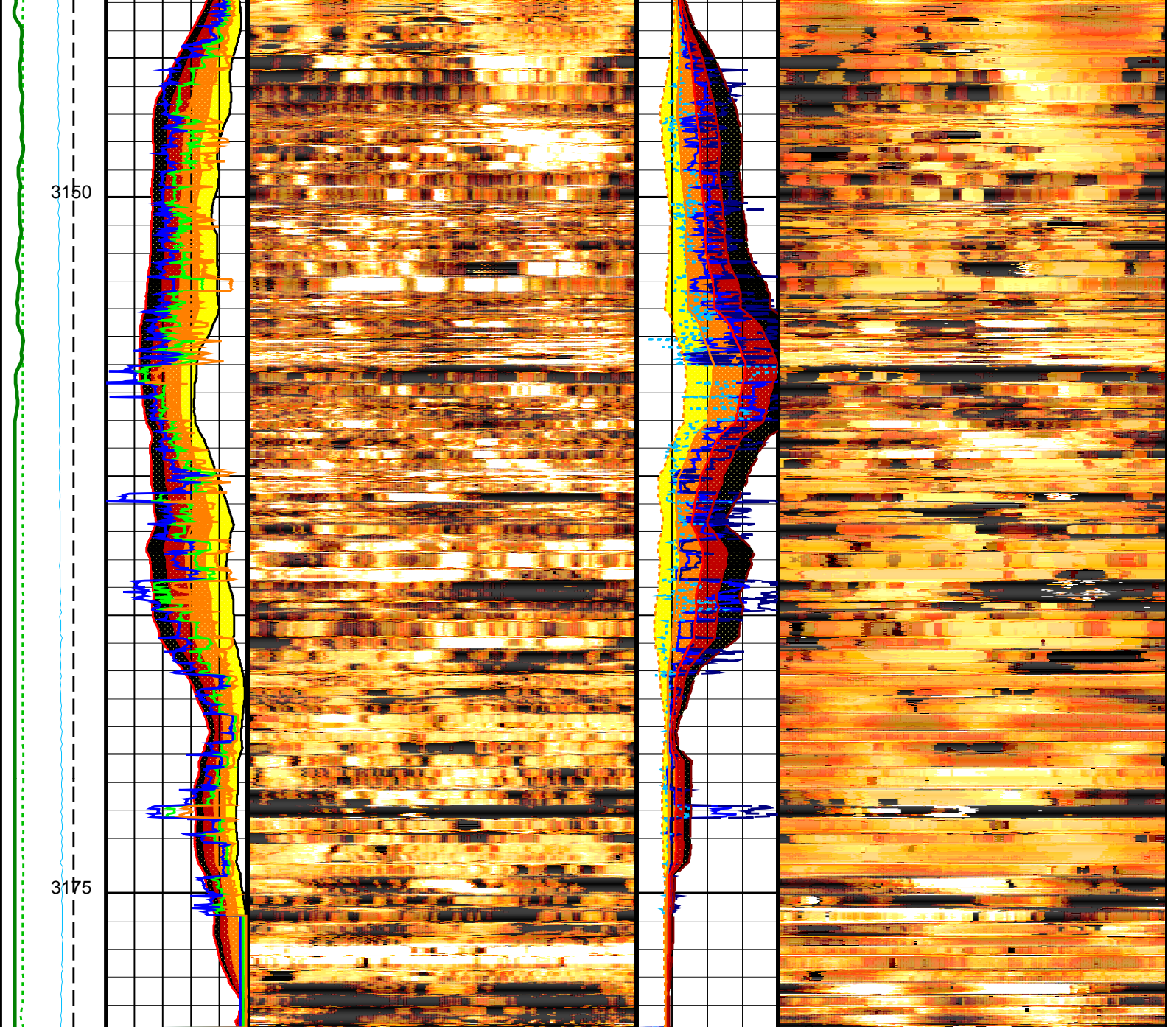
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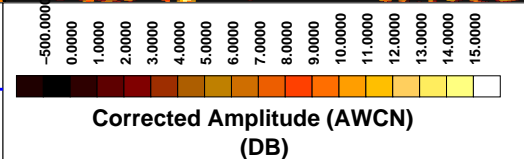




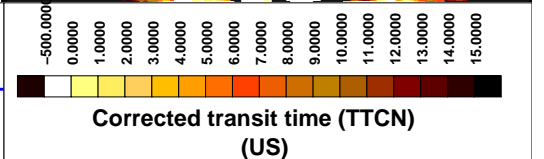




Rev. speed (RSAV) 6 (RPS) 8  
 LOW Amplitude (FA25) 0 (DB) 50



MEDIAN Radius (FTED) 4 (IN) 8



Cable Speed (CS) (F/HR) 0 3000  
 Min. of Amplitude (UAMN) 0 (DB) 50

Radius LOW (FT25) 4 (IN) 8

Radius HIGH (FT75) 4 (IN) 8

Radius min (UTMN) 4 (IN) 8

Fluid velocity (CFVL) (US/M) 450 750  
 Maximum of Amplitude (UAMX) 0 (DB) 50

HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 30  
 MEDIAN of Amplitude (FAED) 0 (DB) 50

HIGH

HIGH

HIGH		
Amplitude (FA75)		
0	(DB)	50

Radius max (UTMX)		
4	(IN)	8
MEDIAN Radius (TMED)		
4	(IN)	8

Format: UBI\_Image Vertical Scale: 1:200 Graphics File Created: 12-Aug-2010 21:36

## OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

### Parameters

DLIS Name	Description	Value	
<b>UBI-D: Ultrasonic Borehole Imager - D</b>			
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	-17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	10.4	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	200	US/F
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
GCSW	Gain Correction	ON	
IMAR	Image Rotation	OFF	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
NBCD	Color Correction Depth Level	80	
NBLD	Eccentering Correction Depth Level	1	
NCDI	Noise Correction Depth Interval	30	
PNSW	Processing Noise Correction	ON	
RCSO	Reference Calibrator Standoff	0.795	IN
RJ60	60 Hz Correction	ON	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI1_SW250_140_1	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00138757	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.09596	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.08877	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN

Input DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_014LUP	FN:13	PRODUCER	12-Aug-2010 08:32	3177.5 M	2943.8 M
Output DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_037PUP	FN:36	PRODUCER	12-Aug-2010 21:36		



## Second Pass 1:200 Scale

MAXIS Field Log

Company: Lamont Doherty Well: Expedition 327 Site U1362A

Input DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_015LUP	FN:14	PRODUCER	12-Aug-2010 09:57	3177.5 M	2943.9 M
Output DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_039PUP	FN:38	PRODUCER	12-Aug-2010 21:40	3179.8 M	2946.3 M

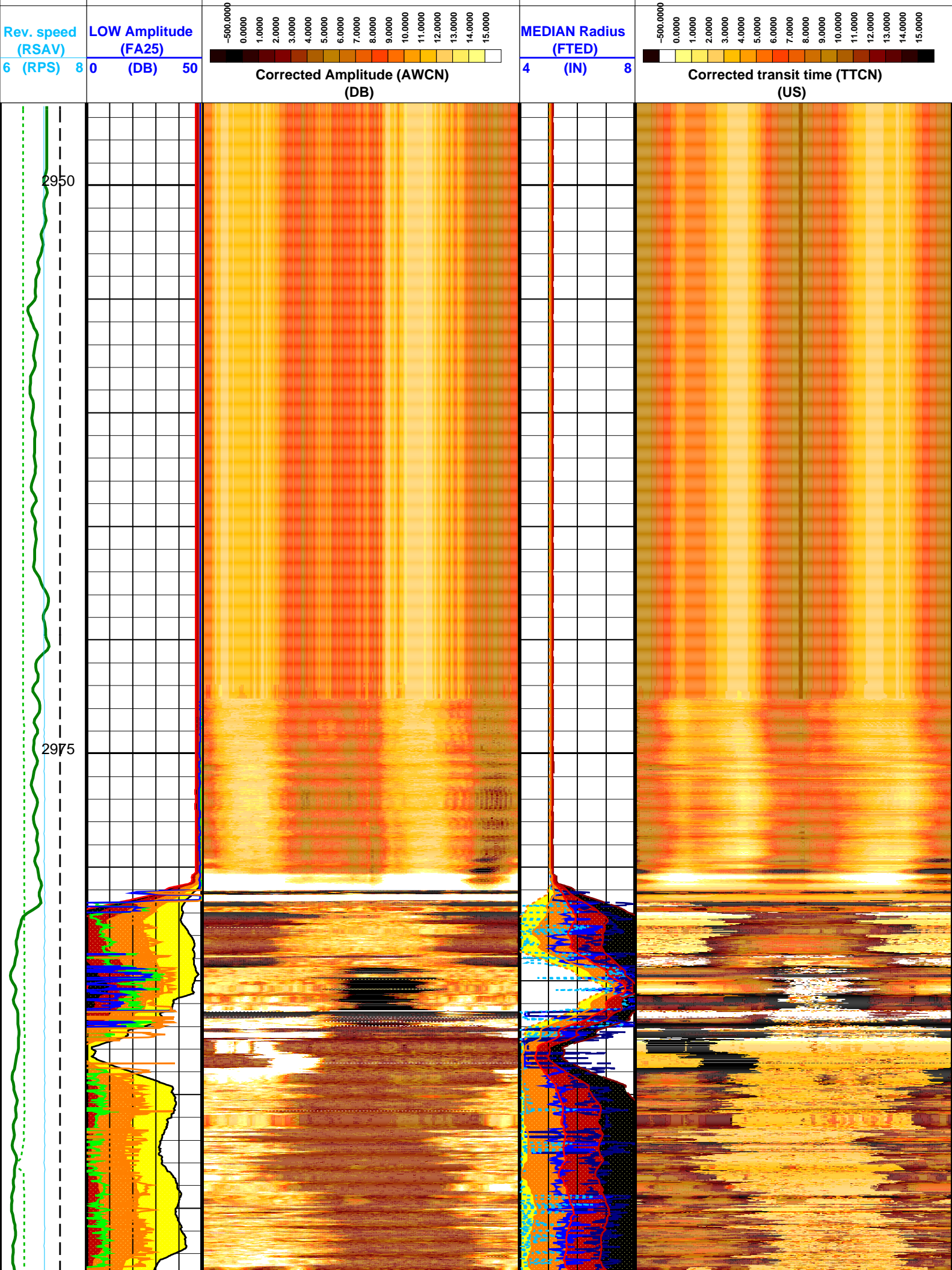
### OP System Version: 17C0-154

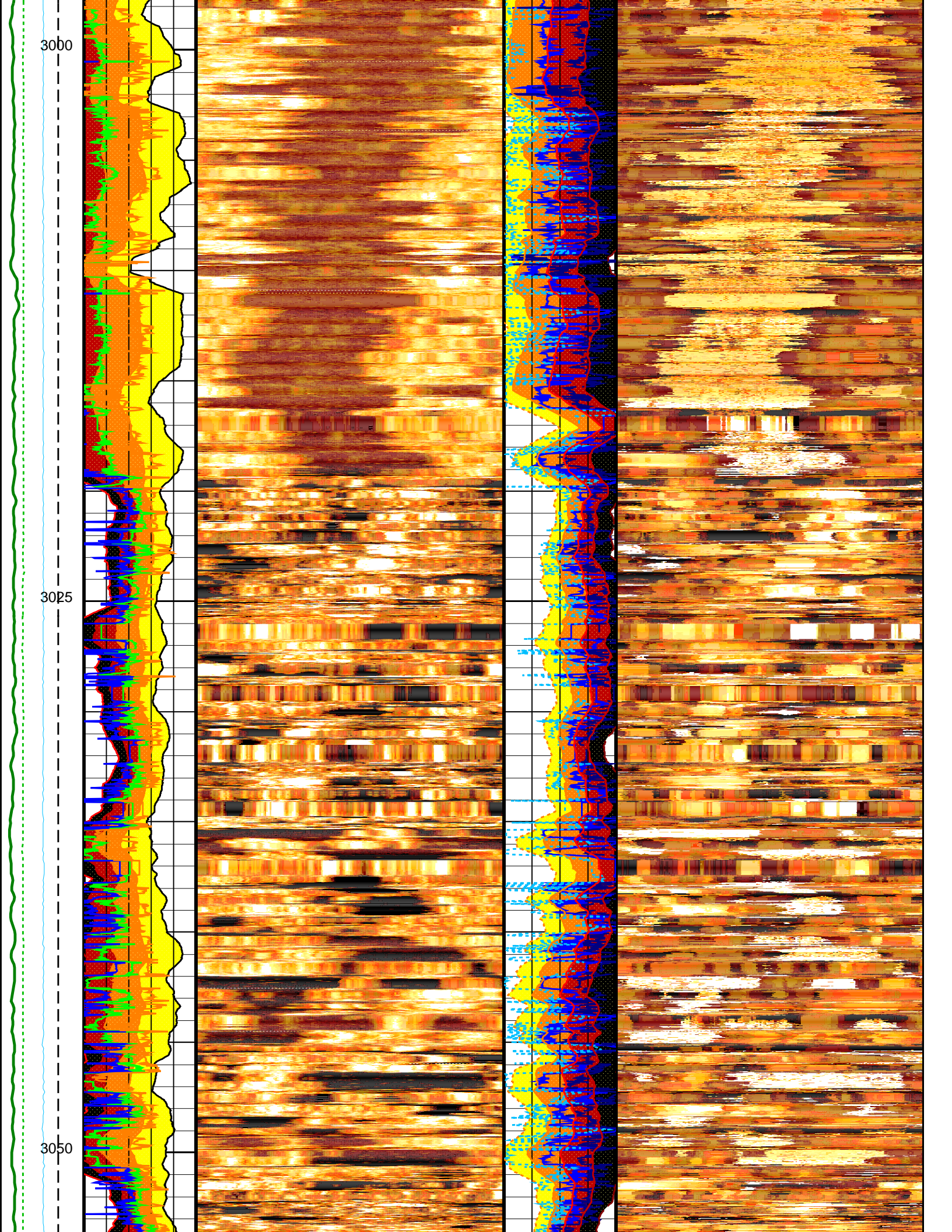
UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

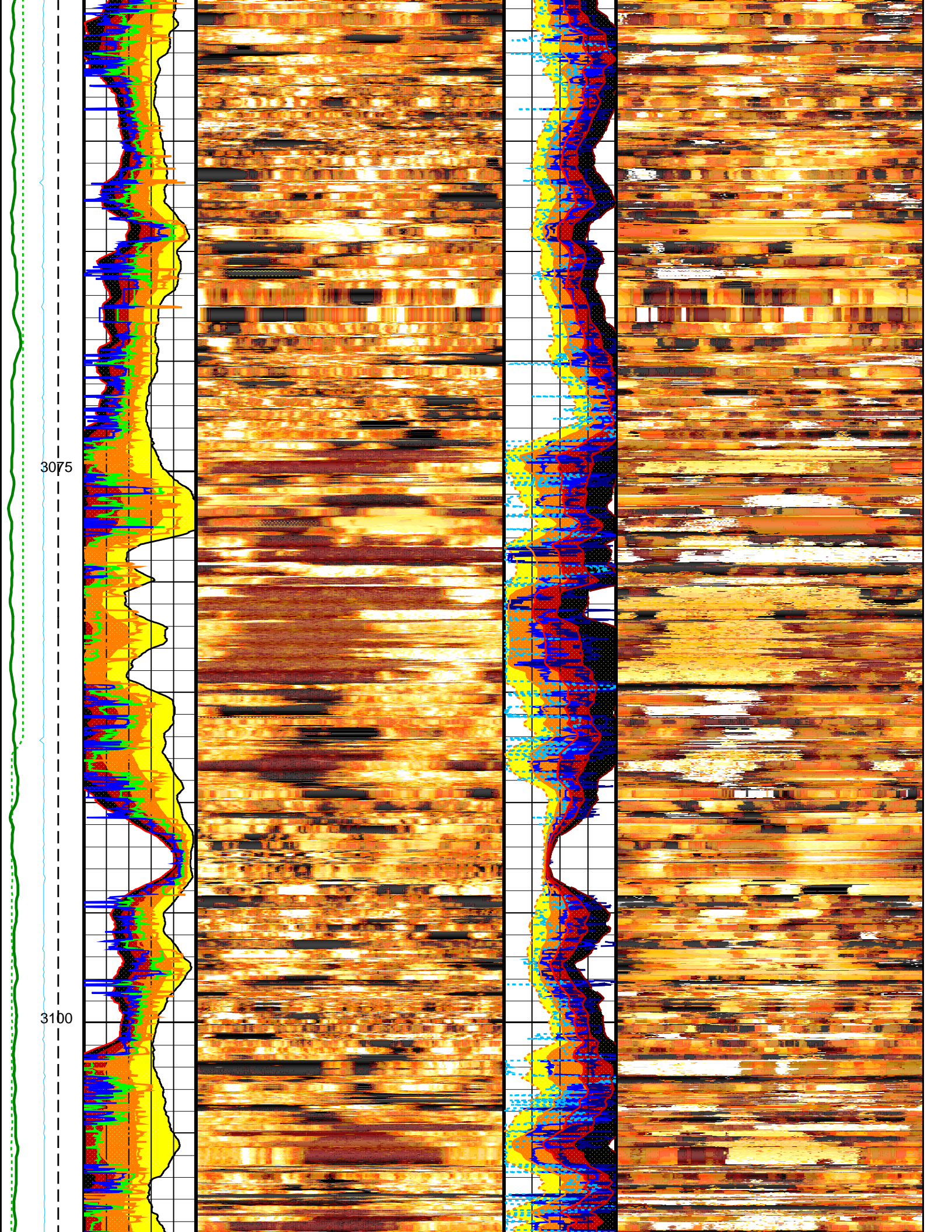
	<b>MEDIAN Radius (TMED)</b> <hr style="border: 1px solid red;"/> 4 (IN) 8
	<b>Radius max (UTMX)</b> <hr style="border: 1px solid black;"/> 4 (IN) 8
	<b>Radius min (UTMN)</b> <hr style="border: 1px dashed orange;"/> 4 (IN) 8
	<b>Radius HIGH (FT75)</b> <hr style="border: 1px solid blue;"/> 4 (IN) 8
	<b>Radius LOW (FT25)</b> <hr style="border: 1px dashed blue;"/> 4 (IN) 8

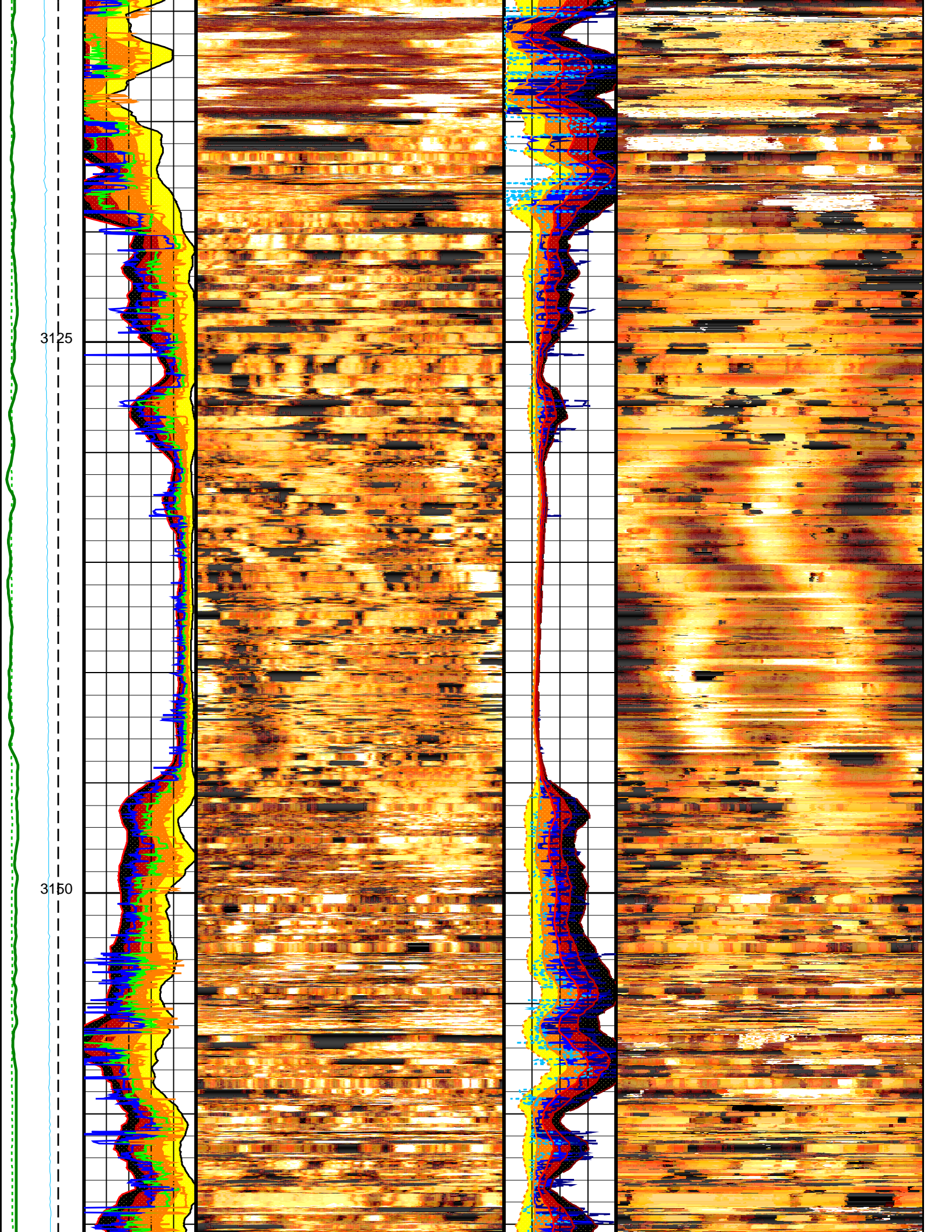
  

	<b>HIGH Amplitude (FA75)</b> <hr style="border: 1px solid orange;"/> 0 (DB) 50
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 30	<b>MEDIAN of Amplitude (FAED)</b> <hr style="border: 1px solid green;"/> 0 (DB) 50
Fluid velocity (CFVL) (US/M) 450 750	<b>Maximum of Amplitude (UAMX)</b> <hr style="border: 1px solid black;"/> 0 (DB) 50
Cable Speed (CS) (F/HR) 0 3000	<b>Min. of Amplitude (UAMN)</b> <hr style="border: 1px solid red;"/> 0 (DB) 50

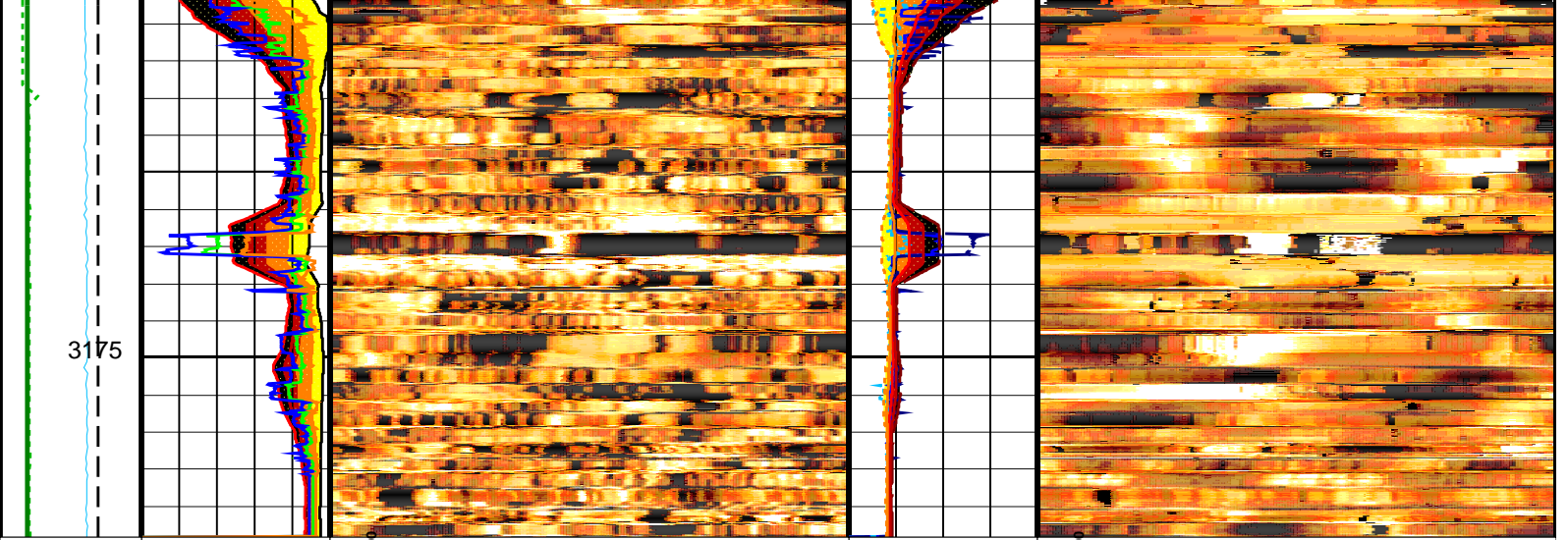




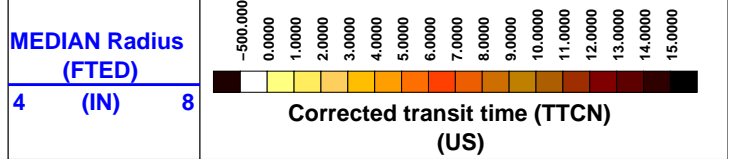
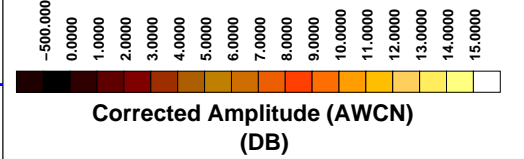








<b>Rev. speed (RSAV)</b> 6 (RPS) 8	<b>LOW Amplitude (FA25)</b> 0 (DB) 50
<b>Cable Speed (CS) (F/HR)</b> 0 3000	<b>Min. of Amplitude (UAMN)</b> 0 (DB) 50
<b>Fluid velocity (CFVL) (US/M)</b> 450 750	<b>Maximum of Amplitude (UAMX)</b> 0 (DB) 50
<b>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</b> 0 30	<b>MEDIAN of Amplitude (FAED)</b> 0 (DB) 50
	<b>HIGH Amplitude (FA75)</b> 0 (DB) 50



<b>MEDIAN Radius (FTED)</b> 4 (IN) 8
<b>Radius LOW (FT25)</b> 4 (IN) 8
<b>Radius HIGH (FT75)</b> 4 (IN) 8
<b>Radius min (UTMN)</b> 4 (IN) 8
<b>Radius max (UTMX)</b> 4 (IN) 8
<b>MEDIAN Radius (TMED)</b> 4 (IN) 8

<b>Corrected Amplitude (AWCN) (DB)</b>
<b>Corrected transit time (TTCN) (US)</b>

Format: UBI\_Image Vertical Scale: 1:200 Graphics File Created: 12-Aug-2010 21:40

**OP System Version: 17C0-154**

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

**Parameters**

DLIS Name	Description	Value
UBI-D	Ultrasonic Borehole Imager - D	
AAMN	Automatic Amplitude Minimum Scale	2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
CSID	Casing Inner Diameter	10.4 IN
DCMN	Window Decrement Down	0.8

DCMX	Window Decrement Down	0.6	
DFVL	Default Fluid Velocity	200	US/F
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
GCSW	Gain Correction	ON	
IMAR	Image Rotation	OFF	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	AUTO	
NBCD	Color Correction Depth Level	80	
NBLD	Eccentering Correction Depth Level	1	
NCDI	Noise Correction Depth Interval	30	
PNSW	Processing Noise Correction	ON	
RCSO	Reference Calibrator Standoff	0.795	IN
RJ60	60 Hz Correction	ON	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI3_SW250_180_1	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00173482	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.12002	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0817	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	2.5	M
PP	Playback Processing	RECOMPUTE	

### Input DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_015LUP	FN:14	PRODUCER	12-Aug-2010 09:57	3177.5 M	2943.9 M
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### Output DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_039PUP	FN:38	PRODUCER	12-Aug-2010 21:40		
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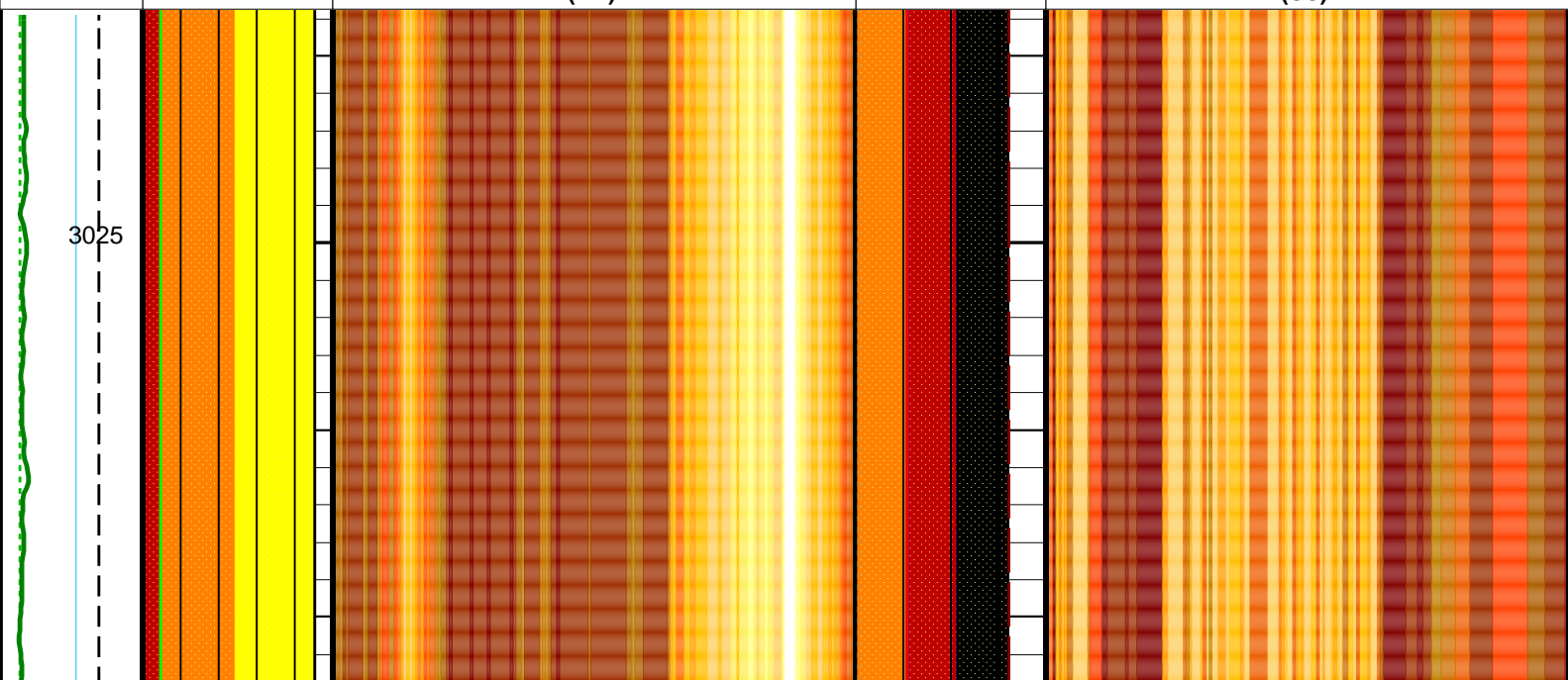
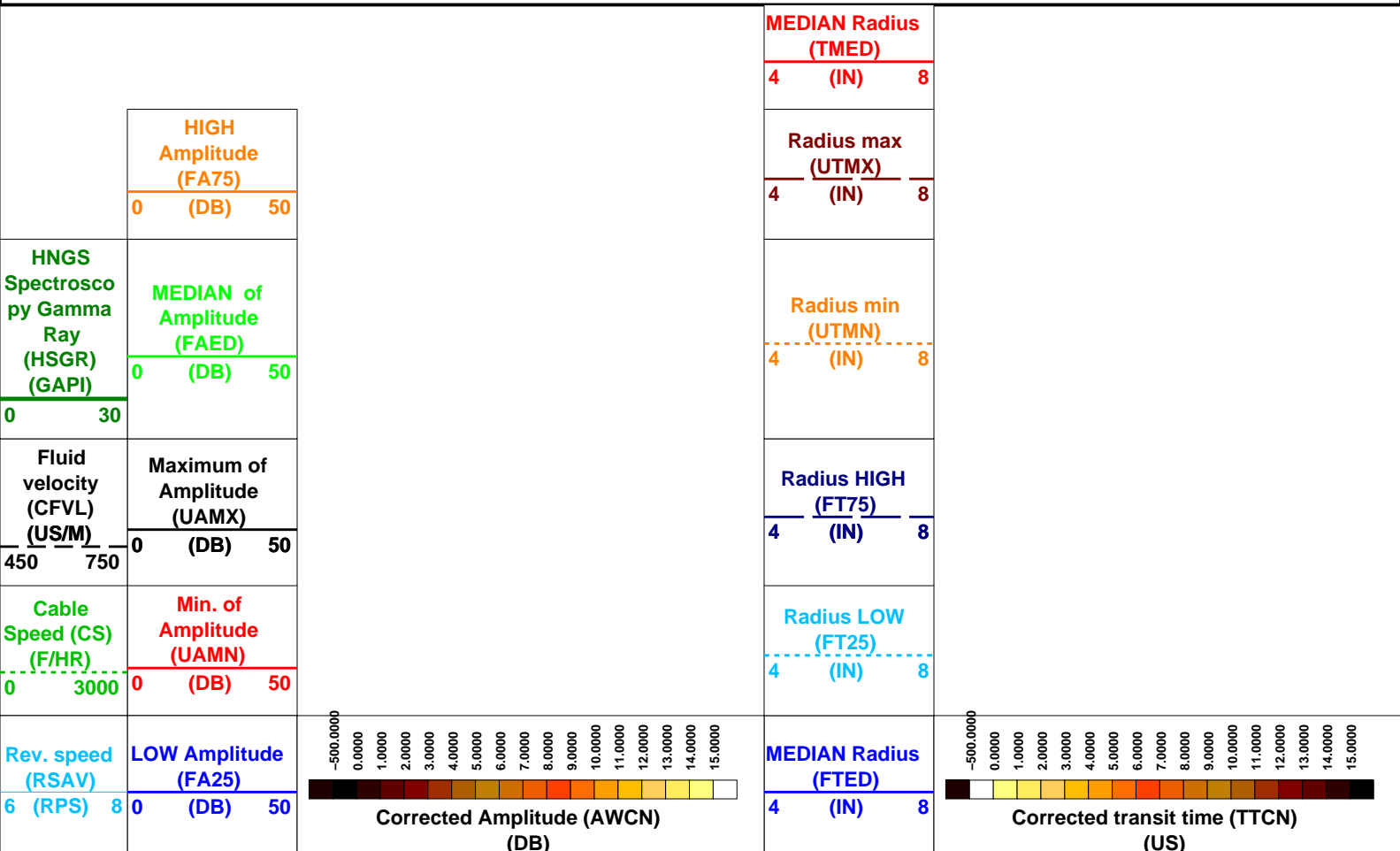
**Third Pass**  
**1:200 Scale**

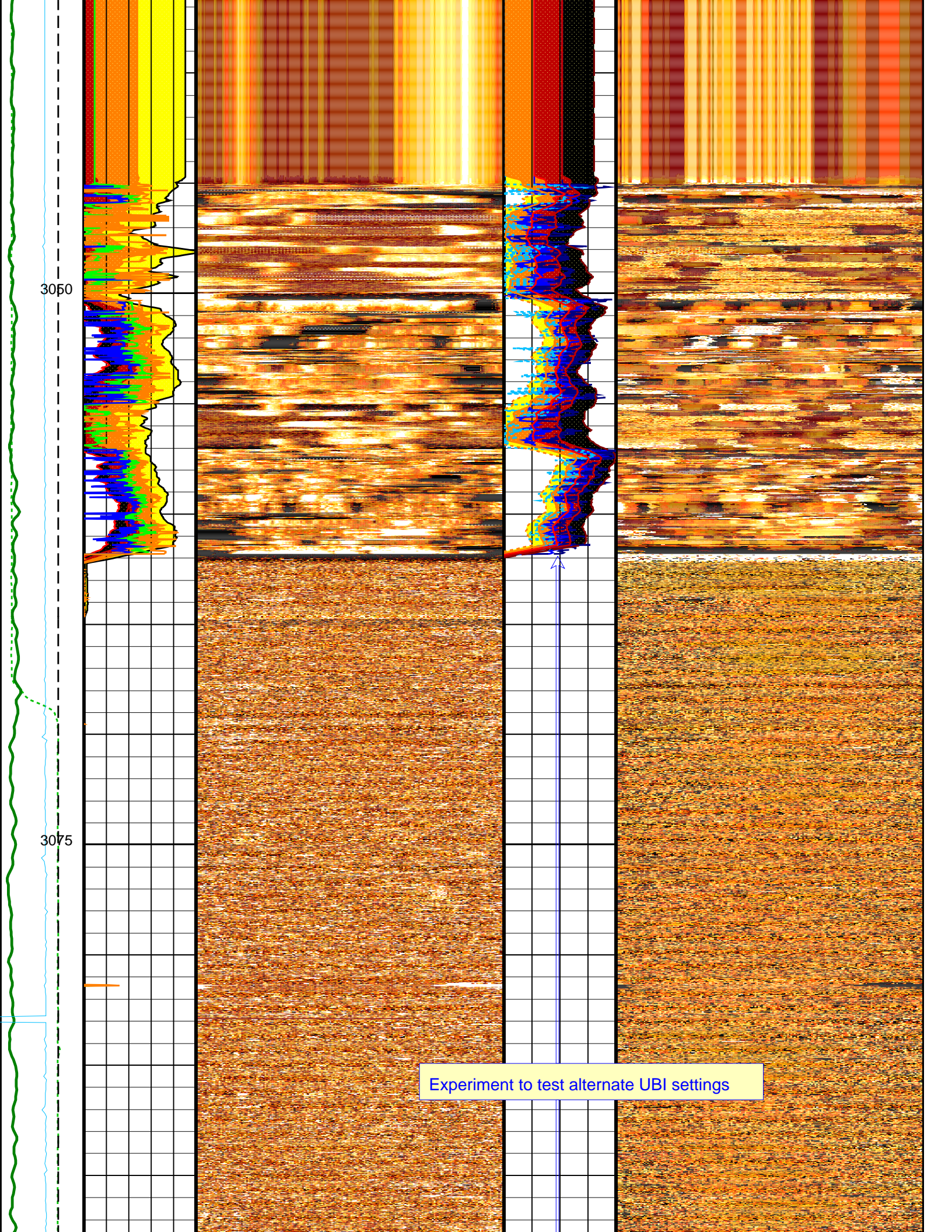
MAXIS Field Log

### Output DLIS Files

### OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

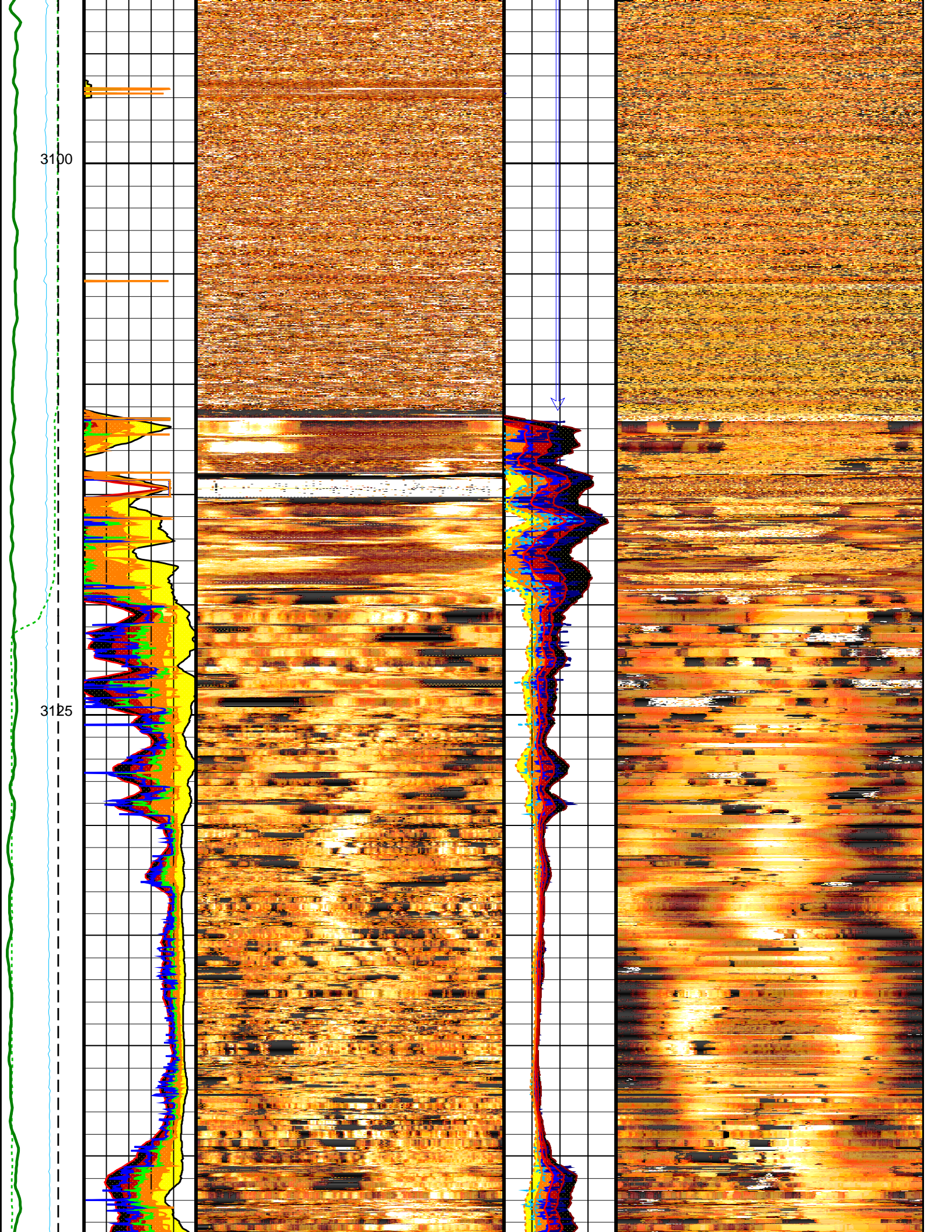


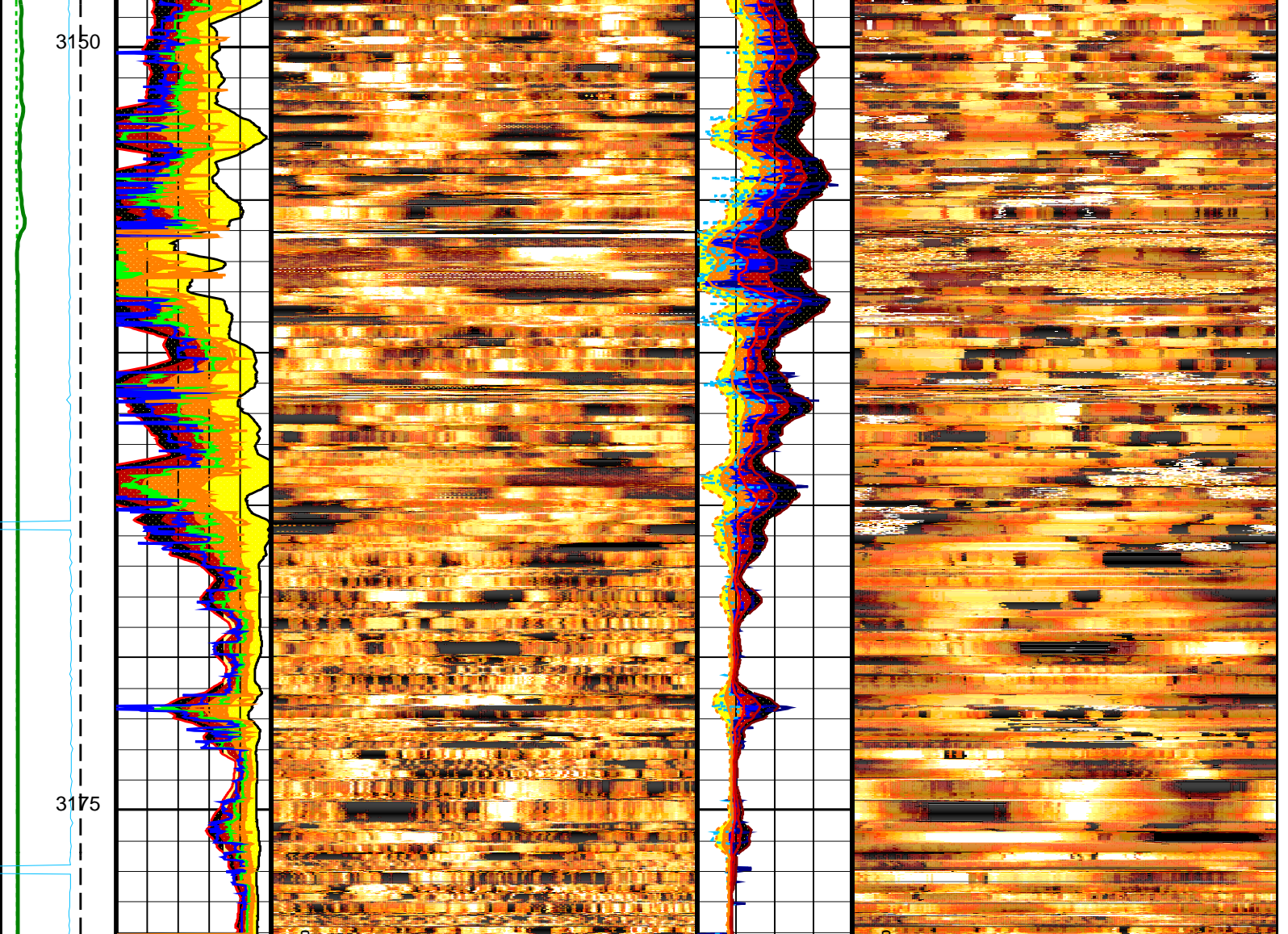


3050

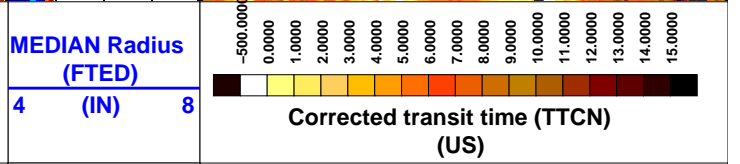
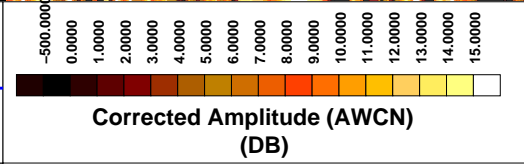
3075

Experiment to test alternate UBI settings





Rev. speed (RSAV) 6 (RPS) 8	LOW Amplitude (FA25) 0 (DB) 50
Cable Speed (CS) (F/HR) 0 3000	Min. of Amplitude (UAMN) 0 (DB) 50
Fluid velocity (CFVL) (US/M) 450 750	Maximum of Amplitude (UAMX) 0 (DB) 50
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 30	MEDIAN of Amplitude (FAED) 0 (DB) 50
	HIGH Amplitude (FA75) 0 (DB) 50



MEDIAN Radius (FTED) 4 (IN) 8
Radius LOW (FT25) 4 (IN) 8
Radius HIGH (FT75) 4 (IN) 8
Radius min (UTMN) 4 (IN) 8
Radius max (UTMX) 4 (IN) 8
MEDIAN Radius (TMED) 4 (IN) 8

### OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

### Parameters

DLIS Name	Description	Value	
<b>UBI-D: Ultrasonic Borehole Imager - D</b>			
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	-17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	10.4	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	200	US/F
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
GCSW	Gain Correction	ON	
IMAR	Image Rotation	OFF	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	AUTO	
NBCD	Color Correction Depth Level	80	
NBLD	Eccentering Correction Depth Level	1	
NCDI	Noise Correction Depth Interval	30	
PNSW	Processing Noise Correction	ON	
RCSO	Reference Calibrator Standoff	0.795	IN
RJ60	60 Hz Correction	ON	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00173482	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.12002	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0817	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	1.5	M
PP	Playback Processing	RECOMPUTE	

### Input DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_016LUP	FN:15	PRODUCER	12-Aug-2010 11:27	3177.5 M	3017.2 M
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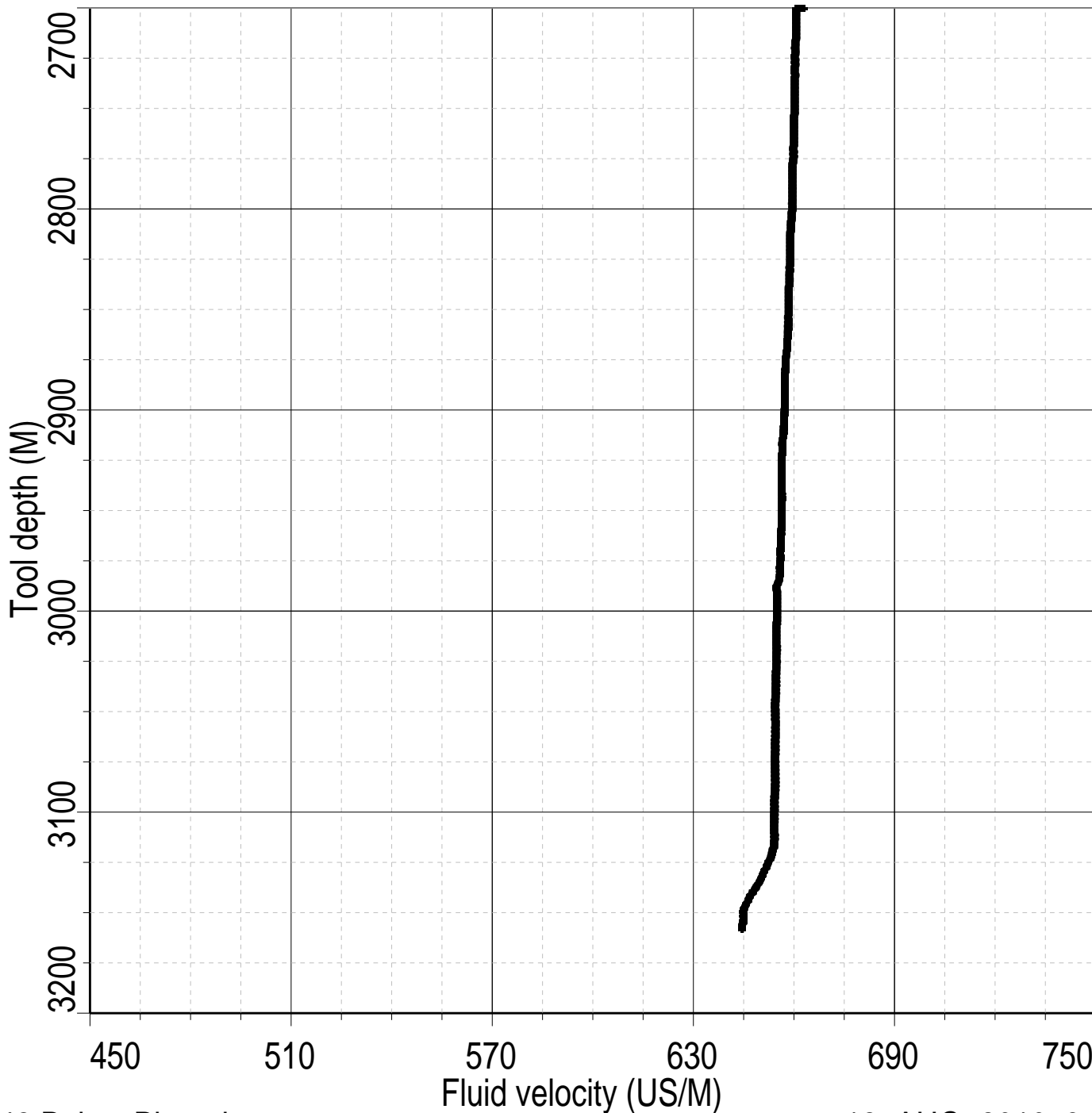
### Output DLIS Files



### Fluid Properties Pass Fluid Velocity Crossplot

MAXIS Field Log

Index: 2603.8 – 3158.6 M





## MAXIS Field Log

## Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
General Purpose Inclinometer Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 12–Aug–2010 5:13							
TEMPERATURE REFERENCE :	N/A	N/A	20	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	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 12–Aug–2010 5:13							
TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	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	428	N/A	N/A	N/A	
Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement							
Master: 4–Jul–2010 23:45 Before: 12–Aug–2010 5:17 After: 12–Aug–2010 15:09							
SS Cs Resolution Bkg	9.000	8.417	8.419	8.439	0.01980	1.800	%
LS Cs Resolution Bkg	9.000	8.549	8.563	8.556	-0.006703	1.800	%
LSW1 Background	100.0	75.11	72.89	71.83	-1.058	3.000	CPS
LSW2 Background	100.0	67.26	67.44	67.47	0.02760	3.000	CPS
LSW3 Background	200.0	151.3	153.4	151.4	-1.979	6.000	CPS
LSW4 Background	250.0	185.7	185.4	185.1	-0.2671	7.500	CPS
LSW5 Background	600.0	419.2	415.7	416.3	0.5545	18.00	CPS
SSW1 Background	100.0	72.57	72.63	70.79	-1.836	3.000	CPS
SSW2 Background	200.0	125.0	125.3	124.9	-0.3862	6.000	CPS
SSW3 Background	500.0	333.7	334.1	334.1	-0.04120	15.00	CPS
SSW4 Background	270.0	179.0	179.4	177.1	-2.313	8.100	CPS
SSW5 Background	200.0	130.7	128.2	128.8	0.5273	6.000	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 4–Jul–2010 23:45							
LSW1 Aluminum	600.0	548.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	809.7	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	983.2	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	493.5	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	453.0	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2290	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6553	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9517	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3989	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	532.0	N/A	N/A	N/A	N/A	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 4–Jul–2010 23:45							
LSW1 Iron	400.0	375.7	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	658.3	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	874.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	453.3	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	419.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1714	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5518	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8758	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3679	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	477.8	N/A	N/A	N/A	N/A	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration							
Before: 4–Jul–2010 3:13							
HLDS Caliper Small Ring	12.00	N/A	13.61	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	17.11	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 3-Jul-2010 10:09 Before: 12-Aug-2010 5:19 After: 12-Aug-2010 15:10

Na 511 Peak Loc	40.00	39.38	39.58	39.62	0.04423	1.000	
Na 511 Peak Res	15.50	14.94	15.79	14.86	-0.9317	2.000	%
High Voltage	1150	1173	1152	1157	4.851	N/A	V
Na 1785 Peak Loc	142.6	141.5	142.5	142.6	0.1303	7.000	
Na 1785 Peak Res	8.500	8.736	7.294	7.672	0.3777	2.000	%
Temperature	15.50	23.93	20.45	19.71	-0.7413	N/A	DEGC
Na Count Rate	45.00	30.22	28.24	28.23	-0.006481	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 3-Jul-2010 10:09 Before: 12-Aug-2010 5:19 After: 12-Aug-2010 15:10

Na 511 Peak Loc	40.00	39.56	39.70	39.58	-0.1246	1.000	
Na 511 Peak Res	15.50	16.29	14.97	15.50	0.5229	2.000	%
High Voltage	1150	1097	1089	1090	0.6023	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.3	141.3	-0.9653	7.000	
Na 1785 Peak Res	8.500	8.575	7.621	9.293	1.671	2.000	%
Temperature	15.50	24.35	20.88	21.54	0.6568	N/A	DEGC
Na Count Rate	45.00	30.12	28.16	28.11	-0.04325	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2

Master: 3-Jul-2010 10:09 Before: 12-Aug-2010 5:19 After: 12-Aug-2010 15:10

Coincidence Count Rate Ratio	1.000	1.003	1.001	1.004	0.002971	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 3-Jul-2010 10:09

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	211.4	---	---	---	---	
Th Peak Res	7.000	6.988	---	---	---	---	%
Background Count Rate	142.5	17.94	---	---	---	---	CPS
Gain Ratio	1.000	1.021	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 3-Jul-2010 10:09

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	208.6	---	---	---	---	
Th Peak Res	7.000	6.911	---	---	---	---	%
Background Count Rate	142.5	18.39	---	---	---	---	CPS
Gain Ratio	1.000	1.003	---	---	---	---	

General Purpose Inclinator / Equipment Identification

Primary Equipment:	
GPIT Cartridge – AC	GPIC – AC
Auxiliary Equipment:	
GPIT Housing	GPIH – A

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS – D	35
Hostile Litho Density High Voltage	HLDV – D	51
Gamma Source Radioactive	GSR – Z	2397
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP – C	61
Hostile Litho Density High Voltage Housi	HEH – H	53

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value
Master		8.417	Master		8.549	Master		75.11
Before		8.419	Before		8.563	Before		72.89
After		8.439	After		8.556	After		71.83
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		67.26	Master		151.3	Master		185.7

Before		67.44	Before		153.4	Before		185.4
After		67.47	After		151.4	After		185.1
50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)			140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)		
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		419.2	Master		72.57	Master		125.0
Before		415.7	Before		72.63	Before		125.3
After		416.3	After		70.79	After		124.9
330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)		
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		333.7	Master		179.0	Master		130.7
Before		334.1	Before		179.4	Before		128.2
After		334.1	After		177.1	After		128.8
280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)		
Master: 4-Jul-2010 23:45			Before: 12-Aug-2010 5:17			After: 12-Aug-2010 15:09		

Hostile Litho-Density Sonde Master Calibration								
Detector Background Measurement								
Phase	LSW1 Background CPS	Value	Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value
Master		75.11	Master		67.26	Master		151.3
55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)		
Phase	LSW4 Background CPS	Value	Phase	LSW5 Background CPS	Value	Phase	LS Cs Resolution Bkg %	Value
Master		185.7	Master		419.2	Master		8.549
140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)			330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)		
Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value
Master		72.57	Master		125.0	Master		333.7
55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)			280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)		
Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value	Phase	SS Cs Resolution Bkg %	Value
Master		179.0	Master		130.7	Master		8.417
150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)		
Master: 4-Jul-2010 23:45								

Hostile Litho-Density Sonde Master Calibration								
Detector Aluminum Measurement (bkgd-subtracted)								
Phase	LSW1 Aluminum CPS	Value	Phase	LSW2 Aluminum CPS	Value	Phase	LSW3 Aluminum CPS	Value
Master		548.9	Master		809.7	Master		983.2
420.0 (Minimum) 600.0 (Nominal) 770.0 (Maximum)			650.0 (Minimum) 900.0 (Nominal) 1150 (Maximum)			800.0 (Minimum) 1100 (Nominal) 1450 (Maximum)		
Phase	LSW4 Aluminum CPS	Value	Phase	LSW5 Aluminum CPS	Value	Phase	SSW1 Aluminum CPS	Value
Master		493.5	Master		453.0	Master		2290
410.0 (Minimum) 580.0 (Nominal) 740.0 (Maximum)			410.0 (Minimum) 570.0 (Nominal) 740.0 (Maximum)			2000 (Minimum) 2800 (Nominal) 3200 (Maximum)		
Phase	SSW2 Aluminum CPS	Value	Phase	SSW3 Aluminum CPS	Value	Phase	SSW4 Aluminum CPS	Value
Master		6553	Master		9517	Master		3989
5800 (Minimum) 8000 (Nominal) 9300 (Maximum)			8300 (Minimum) 11600 (Nominal) 13500 (Maximum)			3500 (Minimum) 5000 (Nominal) 5800 (Maximum)		
Phase	SSW5 Aluminum CPS	Value						
Master		532.0						
470.0 (Minimum) 660.0 (Nominal) 770.0 (Maximum)								
Master: 4-Jul-2010 23:45								

Hostile Litho-Density Sonde Master Calibration								
Detector Litholog Measurement (bkgd-subtracted)								
Phase	LSW1 Iron CPS	Value	Phase	LSW2 Iron CPS	Value	Phase	LSW3 Iron CPS	Value
Master		375.7	Master		658.3	Master		874.6

290.0 (Minimum)	400.0 (Nominal)	560.0 (Maximum)	Phase	LSW4 Iron CPS	Value	370.0 (Minimum)	520.0 (Nominal)	700.0 (Maximum)	Phase	LSW5 Iron CPS	Value	720.0 (Minimum)	1000 (Nominal)	1350 (Maximum)
Master		453.3	Master		419.6	Master		1714						
Phase	SSW2 Iron CPS	Value	Phase	SSW3 Iron CPS	Value	Phase	SSW4 Iron CPS	Value						
Master		5518	Master		8758	Master		3679						
Phase	SSW5 Iron CPS	Value												
Master		477.8												
Master: 4-Jul-2010 23:45														

Hostile Litho-Density Sonde Master Calibration														
Quality Ratios														
Phase	AL CALIBRATION RATIO 1	Value	Phase	AL CALIBRATION RATIO 2	Value	Phase	AL CALIBRATION RATIO 3	Value						
Master		1.039	Master		2.105	Master		0.5800						
Phase	AL CALIBRATION RATIO 4	Value	Phase	Pad-Wear SS Ratio	Value	Phase	Pad-Wear LS Ratio	Value						
Master		0.5065	Master		0.9934	Master		0.9957						
Phase	Pad-Position SS Ratio	Value	Phase	Pad-Position LS Ratio	Value									
Master		1.008	Master		0.9853									
Master: 4-Jul-2010 23:45														

Litho-Density Spectroscopy Cartridge - B / Equipment Identification		
Primary Equipment: LDSC Cartridge	LDSC - B	521
Auxiliary Equipment: LDSC Housing	LDSH - A	319

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification		
Primary Equipment: HNGC Cartridge	HNGC - B	300
Auxiliary Equipment: HNGC Housing	HNGH - A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification		
Primary Equipment: HNGS Sonde	HNGS - BA	194
Auxiliary Equipment: HNGS Sonde Housing	HNSH - BA	205
Gamma Source Radioactive	GSR - U	616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration								
Detector 1 Check								
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.38	Master		14.94	Master		1173
Before		39.58	Before		15.79	Before		1152

After		39.62	After		14.86	After		1157
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		141.5	Master		8.736	Master		23.93
Before		142.5	Before		7.294	Before		20.45
After		142.6	After		7.672	After		19.71
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		30.22						
Before		28.24						
After		28.23						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 3-Jul-2010 10:09			Before: 12-Aug-2010 5:19			After: 12-Aug-2010 15:10		

Hostile Natural Gamma Ray Sonde Wellsite Calibration								
Detector 2 Check								
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.56	Master		16.29	Master		1097
Before		39.70	Before		14.97	Before		1089
After		39.58	After		15.50	After		1090
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		141.9	Master		8.575	Master		24.35
Before		142.3	Before		7.621	Before		20.88
After		141.3	After		9.293	After		21.54
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		30.12						
Before		28.16						
After		28.11						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 3-Jul-2010 10:09			Before: 12-Aug-2010 5:19			After: 12-Aug-2010 15:10		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.003
Before		1.001
After		1.004
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 3-Jul-2010 10:09		
Before: 12-Aug-2010 5:19		
After: 12-Aug-2010 15:10		

Hostile Natural Gamma Ray Sonde Master Calibration								
Detector 1 Calibration								
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		211.4	Master		6.988
	38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		17.94	Master		1.021			

Master		17.94	Master		1.021
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)

Master: 3-Jul-2010 10:09

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			208.6	Master			6.911
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			18.39	Master			1.003				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Master: 3-Jul-2010 10:09

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: **Lamont Doherty**

**Schlumberger**

Well: **Expedition 327 Site U1362A**

Field: **Juan de Fuca**

Rig: **JOIDES Resolution**

Country: **USA**

Ultrasonic Borehole Image (UBI)