Schlumberger

Company: **Lamont Doherty Earth Observatory**
Shell
Well: **Expedition 344S, U0060A (USC60)**
Field: **Baffin Bay**
Rig: **JOIDES Resolution** Country: **USA**

Rig: JOIDES Resolution
Field: Baffin Bay
Location: Latitude: N 75* 42' 58.35"
Well: Expedition 344S, U0060A (USC6
Company: Lamont Doherty Earth Observato

DSI Sonic Imager

P & S Monopole

LOCATION

Latitude: N 75* 42' 58.35"
Longitude: W 65* 57' 12.19"

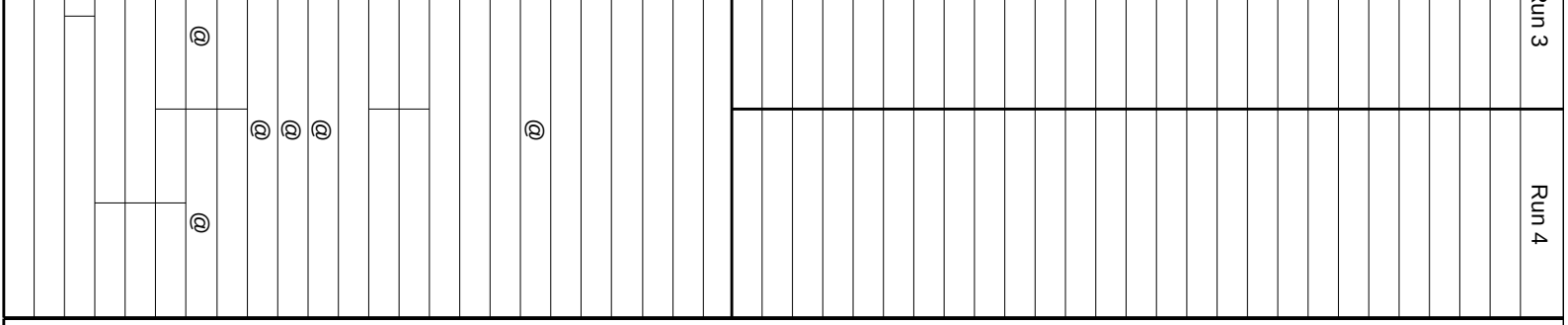
Elev.: K.B. −603.20 m
G.L. −592.20 m
D.F. −603.20 m

Permanent Datum: Mean Sea Level — Elev.: 0.00 m
Log Measured From: Sea Floor — 11.00 m above Perm. Datum
Drilling Measured From: Drill Floor

Ocean:	Max. Well Deviation	Longitude	Latitude
Atlantic	0 deg	N 75* 42' 58.35"	W 65* 57' 12.19"

	Run 1	Run 2	R
Logging Date	27−Sep−2012		
Run Number	1		
Depth Driller	239.1 m		
Schlumberger Depth	195.5 m		
Bottom Log Interval	174 m		
Top Log Interval	43 m		
Casing Driller Size @ Depth	7.000 in @ 33 m	@	
Casing Schlumberger	31 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater		
MUD Density / Viscosity	1.05 g/cm3 /	/	
MUD Fluid Loss / PH	/	/	
MUD 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	@ 9 / @ 9	@ / @	
Maximum Recorded Temperatures	9 degC		
Circulation Stopped Time	27−Sep−2012 18:00		
Logger On Bottom Time	27−Sep−2012 22:20		
Unit Number / Location	625003 Houston		
Recorded By	C. Furman		
Witnessed By	G. Guerin, H. Evans		

	Run 1	Run 2	R
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			
MUD Density / Viscosity	/		
MUD Fluid Loss / PH	/		
MUD 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			



DISCLAIMER

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OTHER SERVICES1

OS1: MSS

OS2: HRLA

OS3: HNGS

REMARKS: RUN NUMBER 1

Site U0060A, client designation USC 060, was cored for exploration using the RCB system.

This site is subcontracted to Shell from LDEO, not a standard USIO/IODP site!

Tools were not able to reach TD due to hole obstruction; maximum depth was 195.5mbsf.

Centralized tools run using modified MCD chasis as inline centralizer, as per tool sketch.

Hole size corrections made using bit size, as no caliper was present in the string.

Tools conveyed to hole on wireline through drill pipe, as is standard for this riser−less operation.

Logs recorded from Drill Floor, but played back with zero reference at sea bed for compatibility with core data.

Original sea bed, as measured from drill floor, was 594.0m uncorrected measured depth below drill floor.

Heave compensation was not required due to exceptionally calm sea state and favorable weather during logging.

DSI Run with typical modes as follows:

− P&S Monopole in Standard Frequency

− Upper Dipole in Low Frequency

− Lower Dipole in Standard Frequency

− Stoneley in Standard Frequency

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		19C0−187	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

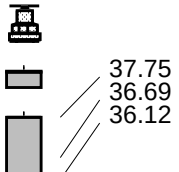
SURFACE EQUIPMENT

GSR−U 616008
WITM (EDTS)−A

DOWNHOLE EQUIPMENT

LEH−MT
LEH−MT 101
AH−369
EDTC−B
EDTH−B 8528

MDSB_EDTC
Mud Tempe
CTEM
Gamma Ray
EFTB DIAG
TelStatus



39.15
38.19
37.75

EDTC−B 8529

EDTCB Ele — 35.77

HNGS−BA
HNGS−BA 194
HNSH−BA 205

Upper_1 — 35.07
Lower_2 — 34.86

35.77

HNGC−B
HNGH−A 115

HNGC Stat — 32.74

33.27

AH−MCD_D
AH−MCD_D 1663

32.20

DSST−B
SPAC−B 8194
ECH−SD 8183
SMDR−BD 8070
SSIJ−BA 8204
SMDX−AA 8147

29.93

PWF — 14.38

AH−MCD_GB
AH−MCD_GB 22

14.38

HRLT−B
HRUH−B 978
HRUC−B 764
HRLS−B 768
HRLH−B 968
HRLC−B 974
AH−270 1708

12.10

High Res. — 8.51

AH−SSIJ
AH−SSIJ 8192

4.72

MSS_LDEO−A
ELIC−A 3
MSS_LDEO−A 3

Hi−Res — 3.36

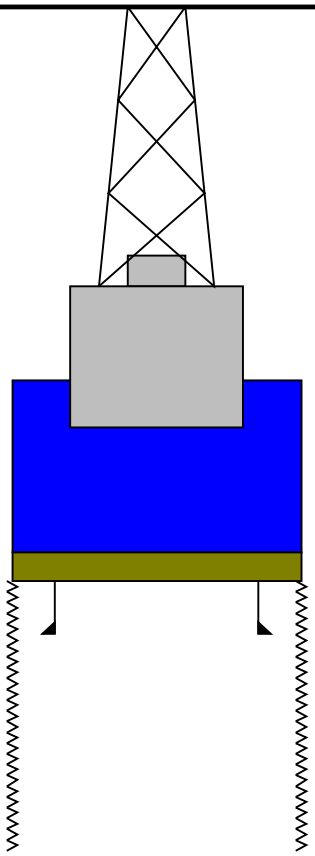
3.66

Dual Coil — 0.39
DF ACCZ
Tension HV — 0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String

	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation			−603.2					
Derrick Floor Elevation			−603.2					
Mean Sea Level			−592.2					
					0.0			Sea Bed
					46.8	7.000		Pipe Shoe
					239.1	9.875		Total Depth − Driller

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Up Log

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 344S, U0060A (USC60)**

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_007LUP	FN:6	PRODUCER	28−Sep−2012 00:21	788.7 M	579.3 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_011PUP	FN:10	PRODUCER	28−Sep−2012 20:08	194.3 M	−14.6 M
CLIENT	MSS_LDEO_HRLA_DSI_011PUC	FN:11	CUSTOMER	28−Sep−2012 20:08	194.3 M	−14.6 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

Peak Coherence / TA − P & S Shear (CHTS)
−1 (−−−−) 9

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

Delta−T Shear − P & S (DT4S)
440 (US/F) 40

Delta−T Shear / TA − P & S (DTTS)
440 (US/F) 40

Delta−T Shear / RA − P & S (DTRS)
440 (US/F) 40

Delta−T Comp − P & S (DT4P)
440 (US/F) 40

Delta−T Comp / TA − P & S (DTTP)
440 (US/F) 40

Delta−T Comp / RA − P & S (DTRP)
440 (US/F) 40

Min Amplitude Max

Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

Gamma Ray (GR_EDTC)
0 (GAPI) 150

Peak Coherence / TA − P & S Comp (CHTP)
0 (−−−−) 10

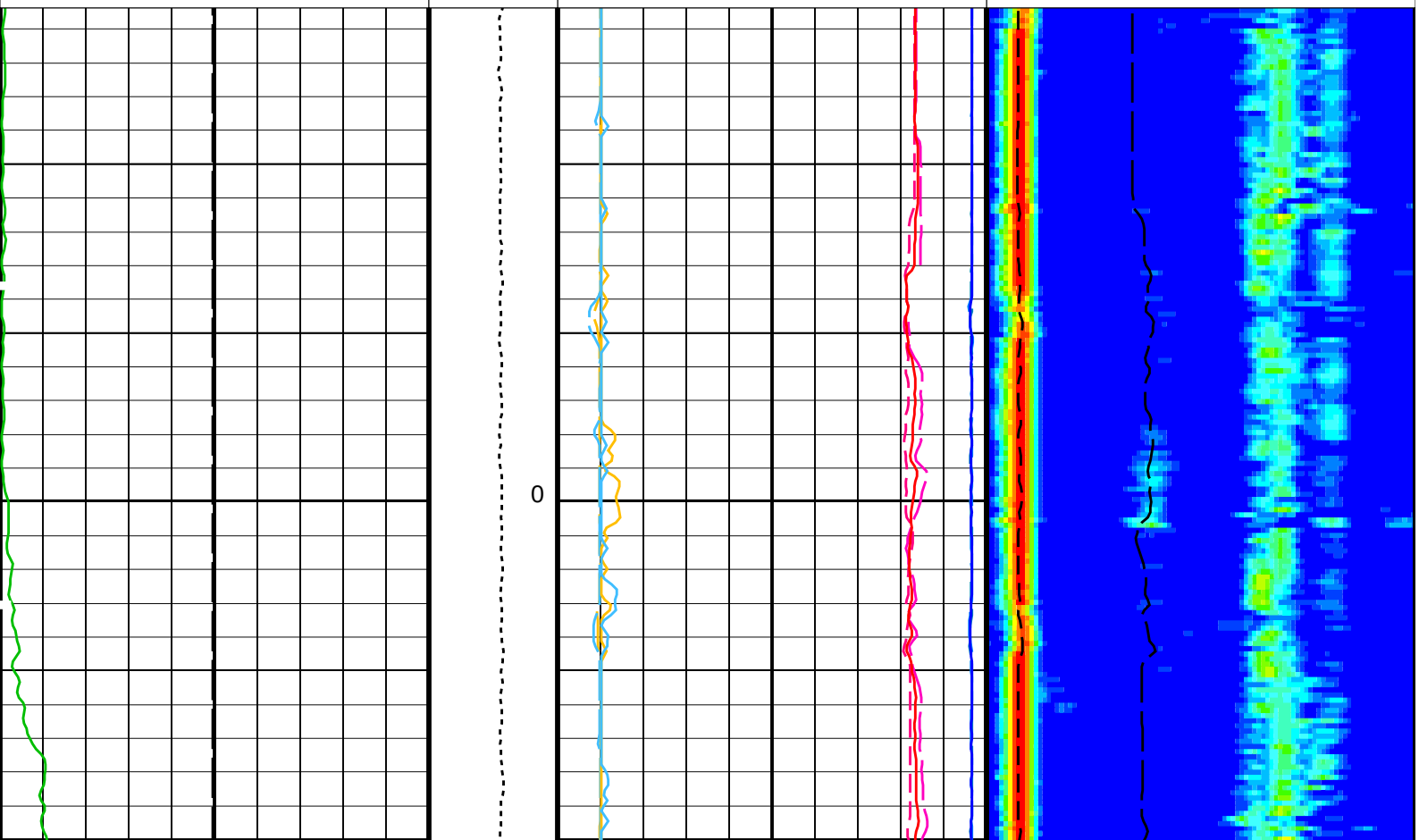
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

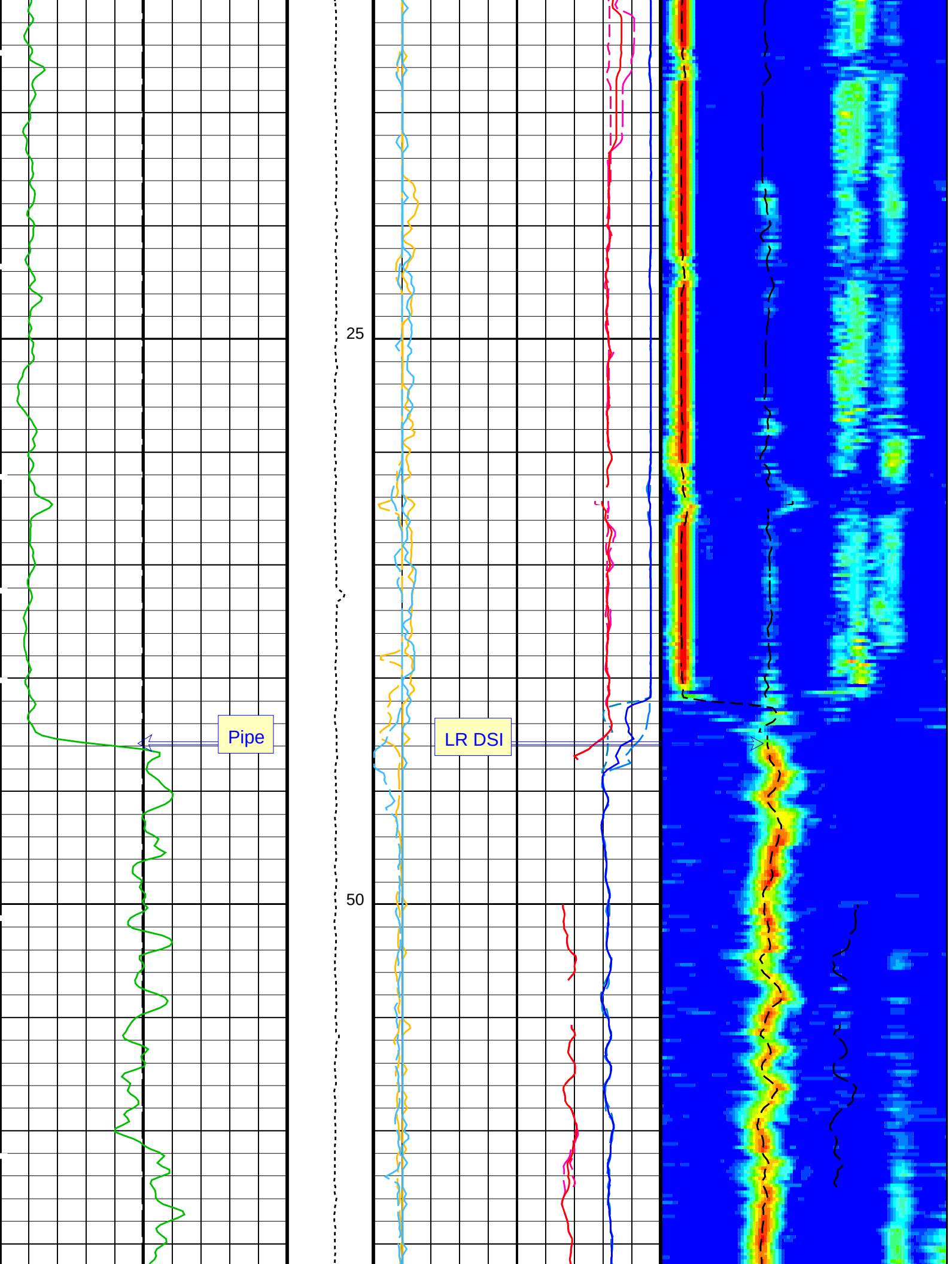
Bit Size (BS)
0 (IN) 20

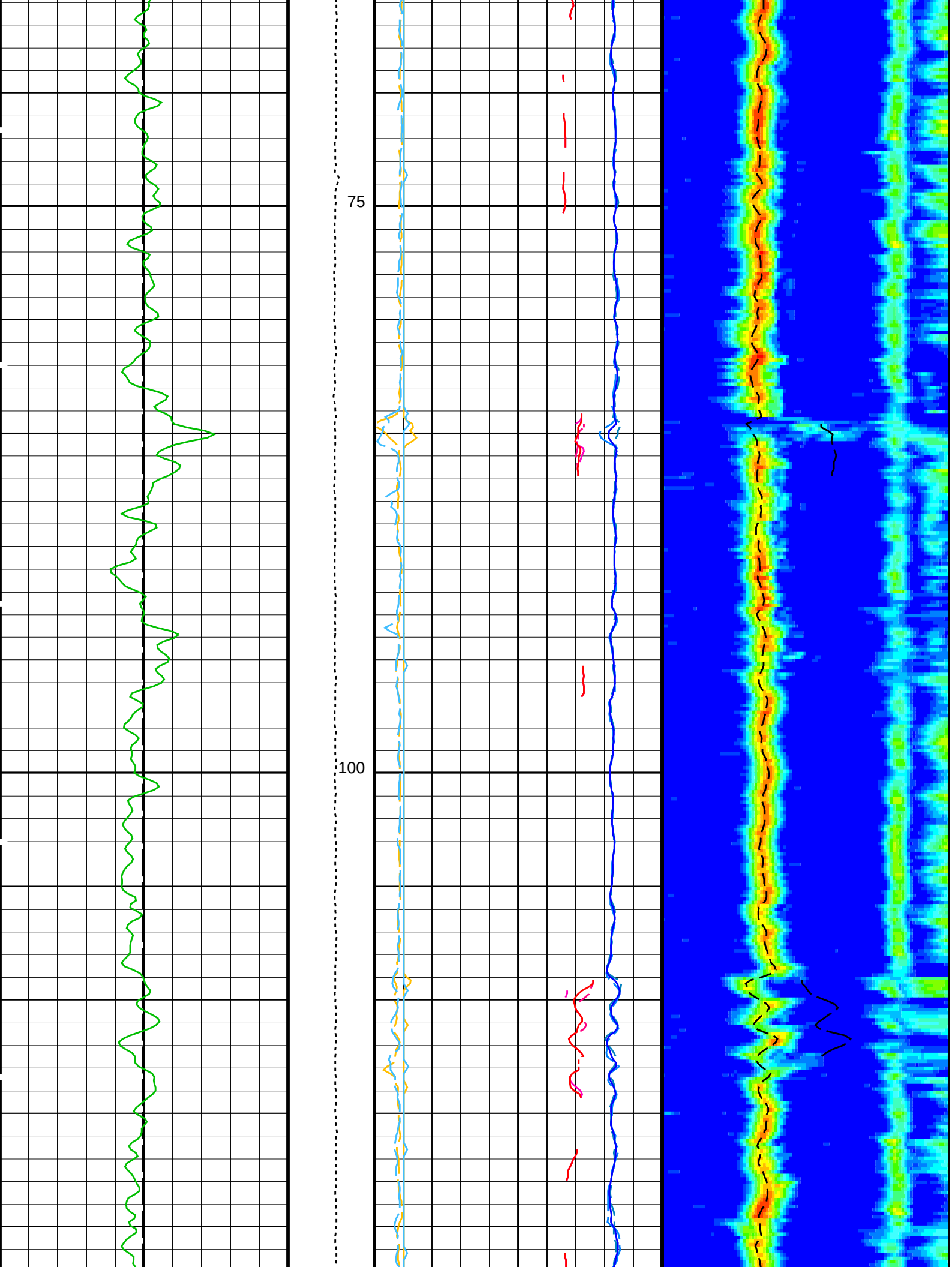
Tension (TENS)
(LBF)
0 5000

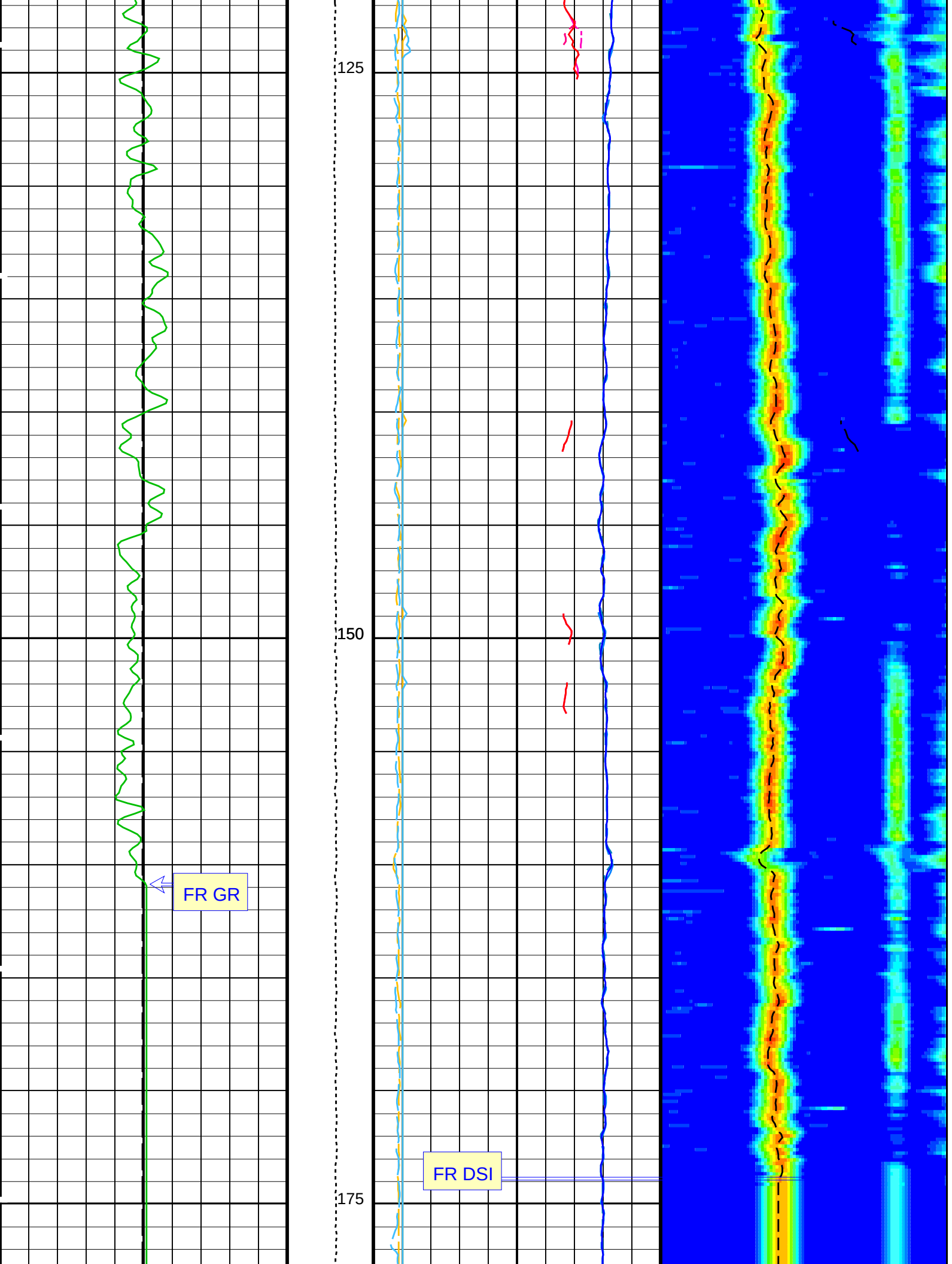
Peak Coherence / RA − P & S Comp (CHRP)
0 (−−−−) 10

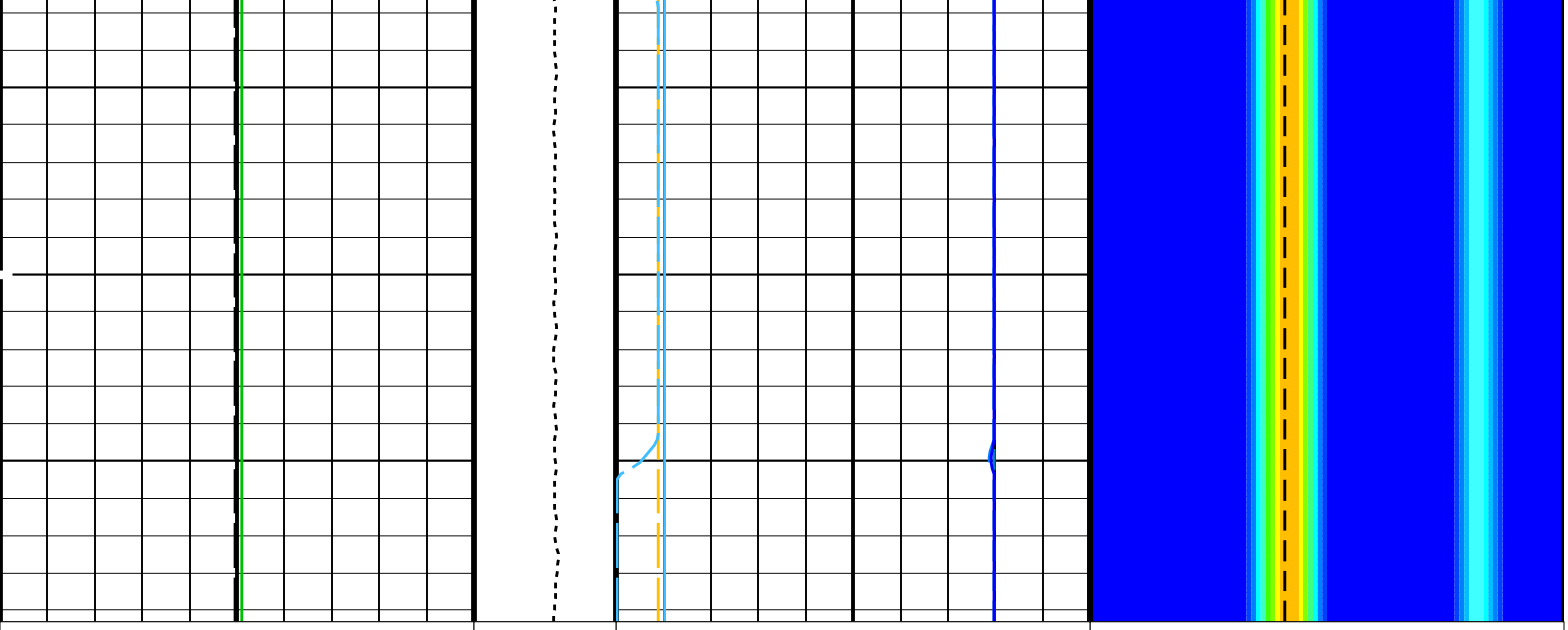
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240




25
50
Pipe
LR DSI


75
100


125
150
175
FR GR
FR DSI



Bit Size (BS) (IN) 0 – 20	Tension (TENS) (LBF) 0 – 5000	Peak Coherence / RA − P & S Comp (CHRP) 0 – 10	Delta−T Comp / RA − P & S (DTRP) 40 – 240 (US/F)
Gamma Ray (GR_EDTC) 0 – 150 (GAPI)		Peak Coherence / TA − P & S Comp (CHTP) 0 – 10	Delta−T Shear / RA − P & S (DTRS) 40 – 240 (US/F)
		Delta−T Comp / RA − P & S (DTRP) 440 – 40 (US/F)	Min Amplitude Max; Rec.Array P&S Slow Proj. CVDL (SPR4) 40 – 240 (US/F)
		Delta−T Comp / TA − P & S (DTTP) 440 – 40 (US/F)	
		Delta−T Comp − P & S (DT4P) 440 – 40 (US/F)	
		Delta−T Shear / RA − P & S (DTRS) 440 – 40 (US/F)	
		Delta−T Shear / TA − P & S (DTTS) 440 – 40 (US/F)	
		Delta−T Shear − P & S (DT4S) 440 – 40 (US/F)	
		Peak Coherence / RA − P & S Shear (CHRS) −1 – 9 (−−−−)	
		Peak Coherence / TA − P & S Shear (CHTS) −1 – 9 (−−−−)	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	50	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	180	US/F
DDF4	Digitizing Delay 4	0	US

DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta−T Fluid	189	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character − Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio − Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio − Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	180	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW4	STC Source Waveform − Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit − Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST4	STC Time Step − Monopole P&S	50	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI4	STC Integration Time Window − Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−594.0	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 28−Sep−2012 20:08

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_007LUP	FN:6	PRODUCER	28−Sep−2012 00:21	788.7 M	579.3 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_011PUP	FN:10	PRODUCER	28−Sep−2012 20:08
CLIENT	MSS_LDEO_HRLA_DSI_011PUC	FN:11	CUSTOMER	28−Sep−2012 20:08

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Down Log

MAXIS Field Log

Company: Lamont Doherty Earth Observatory — **Well: Expedition 344S, U0060A (USC60)**

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_020PUP		PRODUCER	28−Sep−2012 20:28	153.0 M	−10.1 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_021PUP	FN:26	PRODUCER	28−Sep−2012 20:29	153.0 M	−10.1 M
CLIENT	MSS_LDEO_HRLA_DSI_021PUC	FN:27	CUSTOMER	28−Sep−2012 20:29	153.0 M	−10.1 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

Peak Coherence / TA − P & S Shear (CHTS)
−1 (−−−−) 9

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

Delta−T Shear − P & S (DT4S)
440 (US/F) 40

Delta−T Shear / TA − P & S (DTTS)
440 (US/F) 40

Delta−T Shear / RA − P & S (DTRS)
440 (US/F) 40

Delta−T Comp − P & S (DT4P)
440 (US/F) 40

Delta−T Comp / TA − P & S (DTTP)
440 (US/F) 40

Delta−T Comp / RA − P & S (DTRP)
440 (US/F) 40

Min Amplitude Max

Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

Gamma Ray (GR_EDTC)
0 (GAPI) 150

Peak Coherence / TA − P & S Comp (CHTP)
0 (−−−−) 10

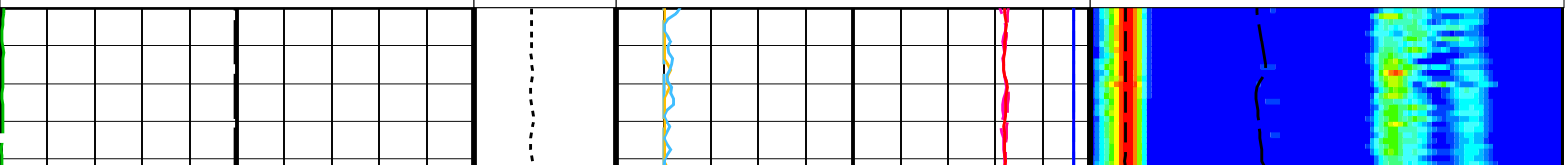
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

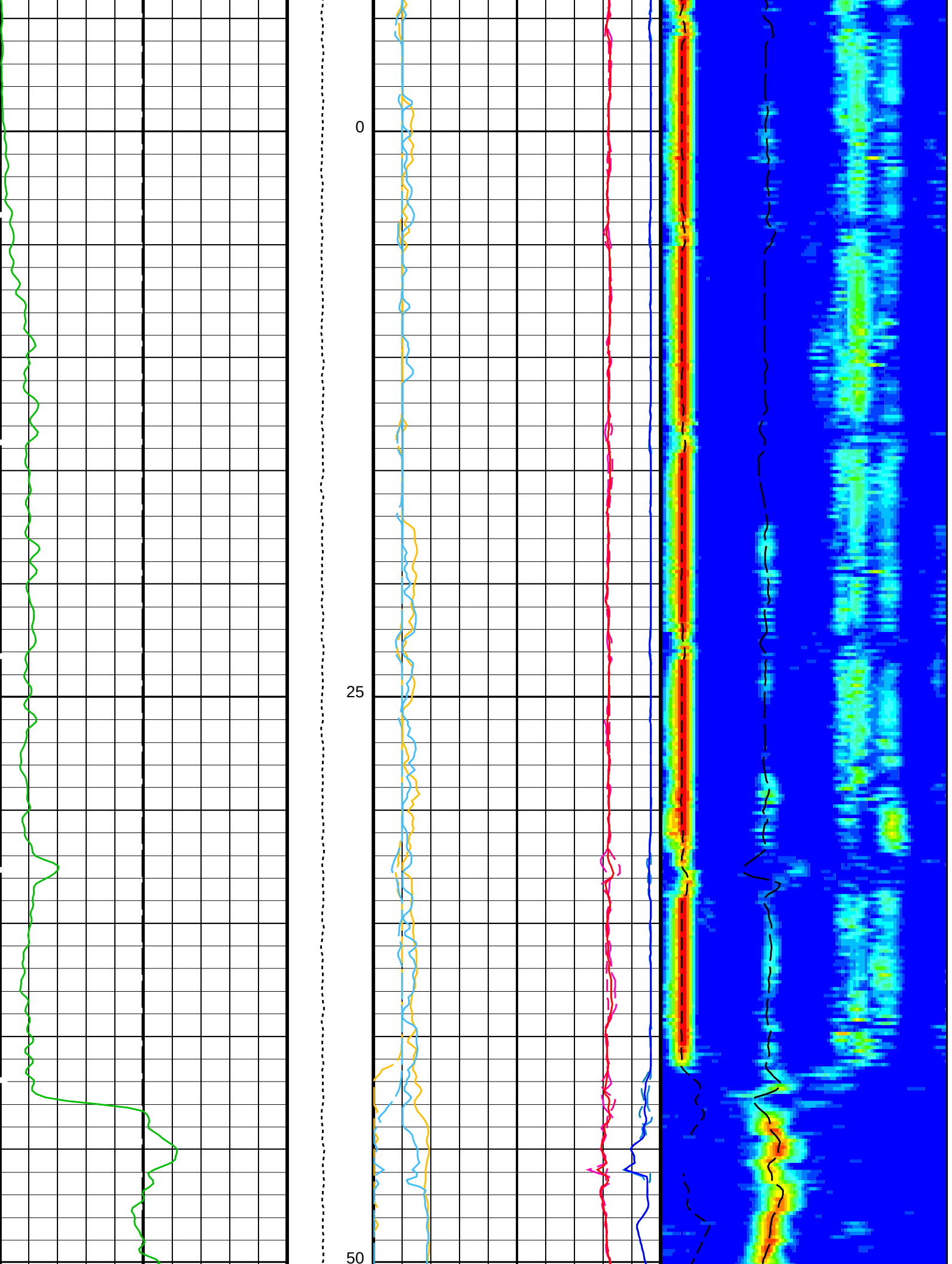
Bit Size (BS)
0 (IN) 20

Tension (TENS)
(LBF)
0 5000

Peak Coherence / RA − P & S Comp (CHRP)
0 (−−−−) 10

Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

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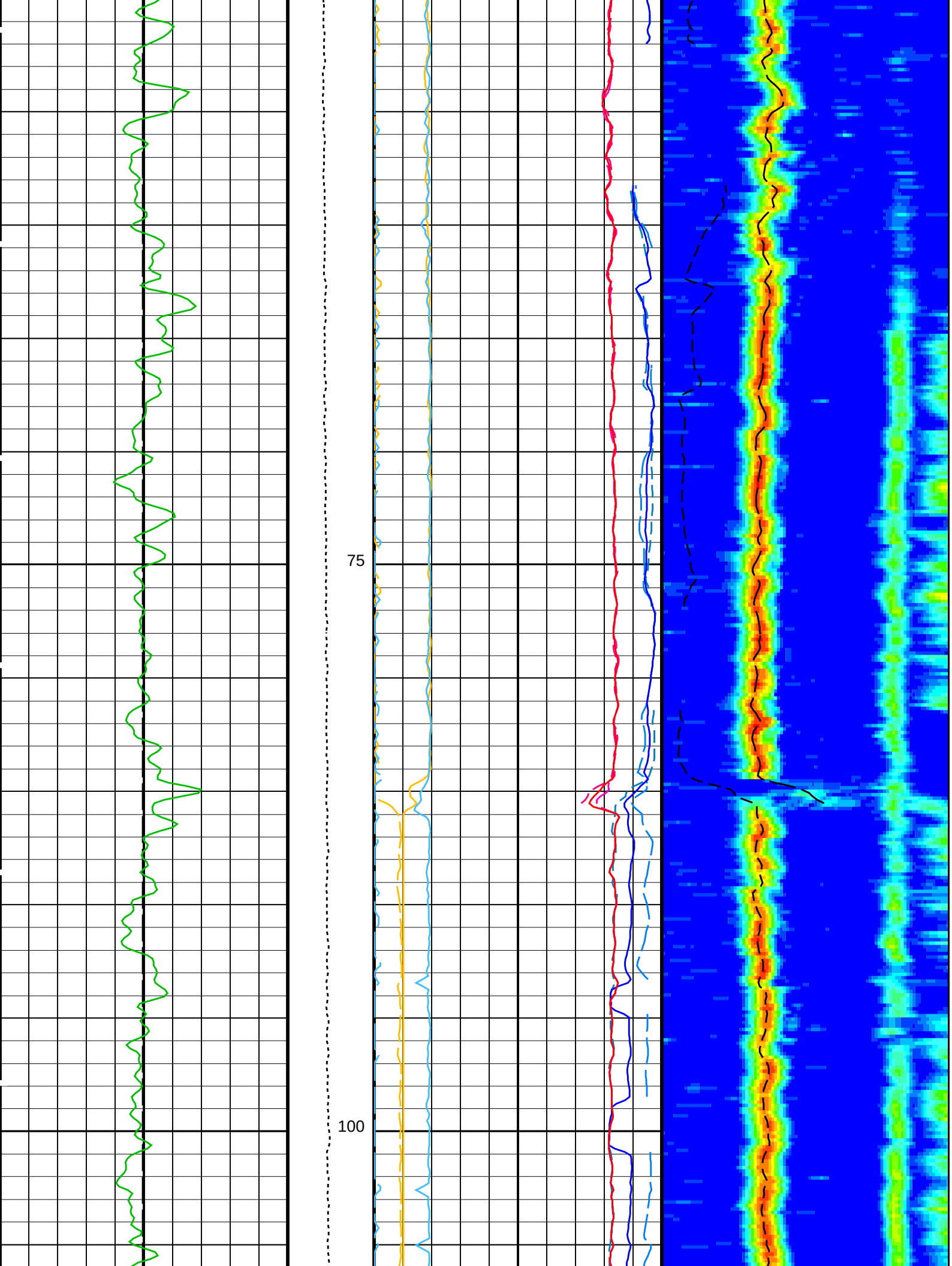
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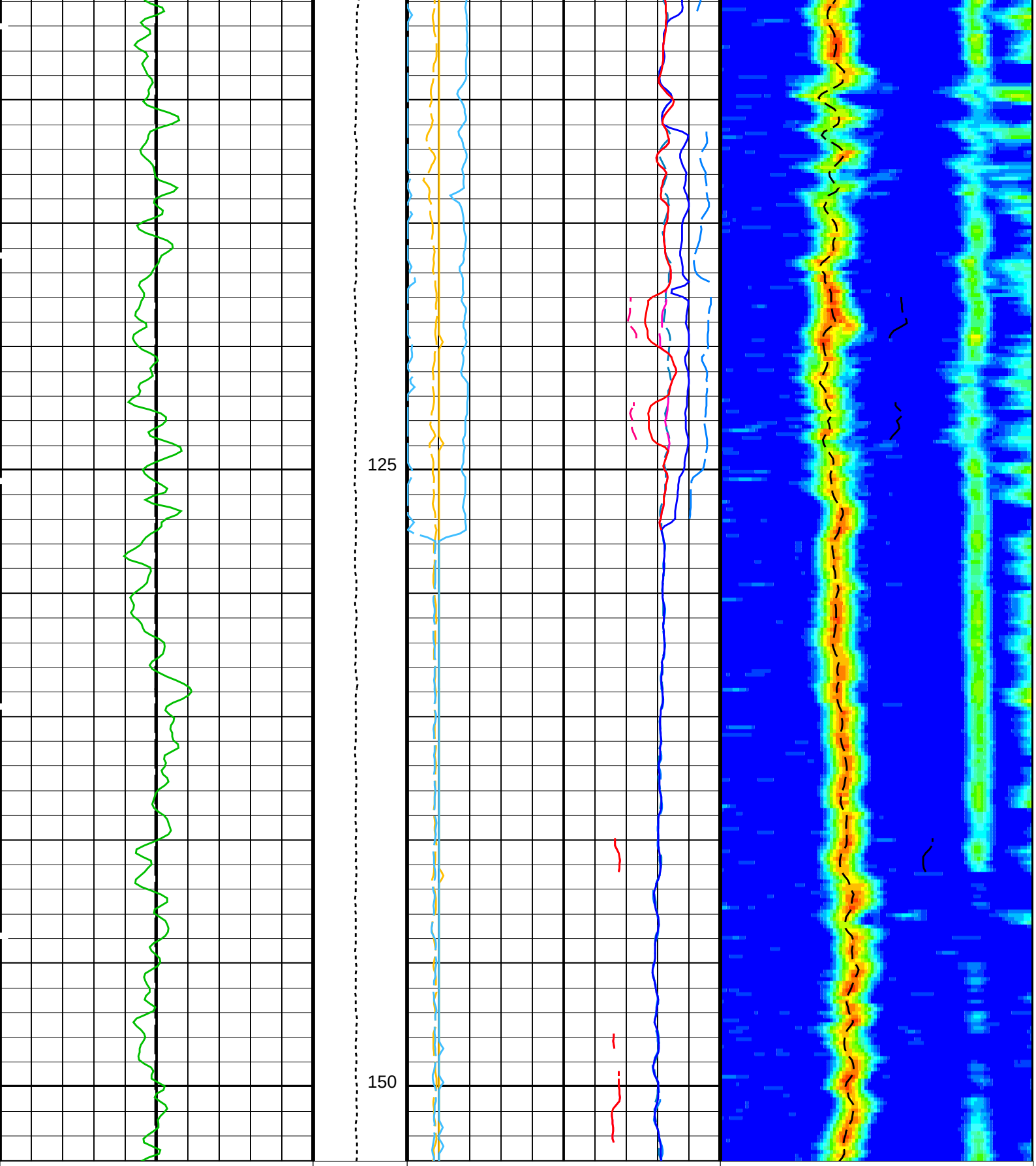


Bit Size (BS)	Tension (TENS)	Peak Coherence / RA − P & S Comp (CHRP)	Delta−T Comp / RA − P & S (DTRP)
0 (IN) 20	0 (LBF) 5000	0 (−−−−) 10	40 (US/F) 240
Gamma Ray (GR_EDTC)		Peak Coherence / TA − P & S Comp (CHTP)	Delta−T Shear / RA − P & S (DTRS)
0 (GAPI) 150		0 (−−−−) 10	40 (US/F) 240
		Delta−T Comp / RA − P & S (DTRP)	Min Amplitude Max
		440 (US/F) 40	Rec Array P&S Slow Proj CVDL (SRP4)

440	(US/F)	40
Rec.Array P&S Slow Proj. CVDL (SPR4)		
40	(US/F)	240
Delta−T Comp / TA − P & S (DTTP)		
440	(US/F)	40
Delta−T Comp − P & S (DT4P)		
440	(US/F)	40
Delta−T Shear / RA − P & S (DTRS)		
440	(US/F)	40
Delta−T Shear / TA − P & S (DTTS)		
440	(US/F)	40
Delta−T Shear − P & S (DT4S)		
440	(US/F)	40
Peak Coherence / RA − P & S Shear (CHRS)		
−1	(−−−−)	9
Peak Coherence / TA − P & S Shear (CHTS)		
−1	(−−−−)	9

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	50	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	180	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta−T Fluid	189	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character − Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio − Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio − Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	180	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW4	STC Source Waveform − Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit − Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F

SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST4	STC Time Step − Monopole P&S	50	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI4	STC Integration Time Window − Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 28−Sep−2012 20:29**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_020PUP	PRODUCER	28−Sep−2012 20:28	153.0 M	−10.1 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_021PUP	FN:26	PRODUCER	28−Sep−2012 20:29
CLIENT	MSS_LDEO_HRLA_DSI_021PUC	FN:27	CUSTOMER	28−Sep−2012 20:29

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M01							
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45							
HRLT M0−M1 Voltage Plus − 0	0	N/A	−320.1	−319.3	0.7999	9.681	UV
HRLT M0−M1 Voltage Plus − 1	0	N/A	−341.6	−338.6	2.980	9.681	UV
HRLT M0−M1 Voltage Plus − 2	0	N/A	−339.5	−337.3	2.248	9.681	UV
HRLT M0−M1 Voltage Plus − 3	0	N/A	−342.4	−340.5	1.922	9.681	UV
HRLT M0−M1 Voltage Plus − 4	0	N/A	−328.1	−327.0	1.090	9.681	UV
HRLT M0−M1 Voltage Plus − 5	0	N/A	−323.6	−322.7	0.8422	9.681	UV
HRLT M0−M1 Voltage Plus − 6	0	N/A	332.2	329.8	−2.436	9.681	UV
HRLT M0−M1 Voltage Plus − 7	0	N/A	−322.7	−322.7	0	9.681	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M12							
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45							
HRLT M1−M2 Voltage Plus − 0	0	N/A	1758	1755	−2.932	53.42	UV
HRLT M1−M2 Voltage Plus − 1	0	N/A	1876	1860	−16.31	53.42	UV
HRLT M1−M2 Voltage Plus − 2	0	N/A	1860	1848	−11.92	53.42	UV
HRLT M1−M2 Voltage Plus − 3	0	N/A	1876	1866	−9.832	53.42	UV
HRLT M1−M2 Voltage Plus − 4	0	N/A	1799	1794	−5.057	53.42	UV
HRLT M1−M2 Voltage Plus − 5	0	N/A	1776	1772	−3.489	53.42	UV
HRLT M1−M2 Voltage Plus − 6	0	N/A	1833	1829	−13.69	53.42	UV

HRLT M1−M2 Voltage Plus − 6	0	N/A	−1832	−1820	12.60	53.42	UV
HRLT M1−M2 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT M23
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT M2−M3 Voltage Plus − 0	0	N/A	1745	1741	−3.911	53.42	UV
HRLT M2−M3 Voltage Plus − 1	0	N/A	1875	1857	−17.45	53.42	UV
HRLT M2−M3 Voltage Plus − 2	0	N/A	1860	1847	−13.26	53.42	UV
HRLT M2−M3 Voltage Plus − 3	0	N/A	1879	1868	−10.97	53.42	UV
HRLT M2−M3 Voltage Plus − 4	0	N/A	1796	1789	−6.424	53.42	UV
HRLT M2−M3 Voltage Plus − 5	0	N/A	1773	1769	−4.405	53.42	UV
HRLT M2−M3 Voltage Plus − 6	0	N/A	−1819	−1805	13.85	53.42	UV
HRLT M2−M3 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V34
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT A3−A4 Voltage Plus − 0	0	N/A	68580	68470	−107.9	2100	UV
HRLT A3−A4 Voltage Plus − 1	0	N/A	73460	72830	−631.8	2100	UV
HRLT A3−A4 Voltage Plus − 2	0	N/A	73170	72710	−458.4	2100	UV
HRLT A3−A4 Voltage Plus − 3	0	N/A	74220	73830	−386.3	2100	UV
HRLT A3−A4 Voltage Plus − 4	0	N/A	70890	70690	−197.9	2100	UV
HRLT A3−A4 Voltage Plus − 5	0	N/A	70020	69890	−123.6	2100	UV
HRLT A3−A4 Voltage Plus − 6	0	N/A	−70280	−69810	468.9	2100	UV
HRLT A3−A4 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V45
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT A4−A5 Voltage Plus − 0	0	N/A	68870	68760	−110.4	2100	UV
HRLT A4−A5 Voltage Plus − 1	0	N/A	73860	73240	−616.3	2100	UV
HRLT A4−A5 Voltage Plus − 2	0	N/A	73540	73080	−459.3	2100	UV
HRLT A4−A5 Voltage Plus − 3	0	N/A	74570	74180	−394.7	2100	UV
HRLT A4−A5 Voltage Plus − 4	0	N/A	71190	70990	−199.9	2100	UV
HRLT A4−A5 Voltage Plus − 5	0	N/A	70310	70180	−130.1	2100	UV
HRLT A4−A5 Voltage Plus − 6	0	N/A	−70670	−70200	471.5	2100	UV
HRLT A4−A5 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V56
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT A5−A6 Voltage Plus − 0	0	N/A	68760	68650	−113.5	2100	UV
HRLT A5−A6 Voltage Plus − 1	0	N/A	73580	72960	−610.8	2100	UV
HRLT A5−A6 Voltage Plus − 2	0	N/A	73290	72840	−458.4	2100	UV
HRLT A5−A6 Voltage Plus − 3	0	N/A	74370	74000	−375.0	2100	UV
HRLT A5−A6 Voltage Plus − 4	0	N/A	71050	70850	−198.5	2100	UV
HRLT A5−A6 Voltage Plus − 5	0	N/A	70190	70050	−145.6	2100	UV
HRLT A5−A6 Voltage Plus − 6	0	N/A	−70390	−69900	494.1	2100	UV
HRLT A5−A6 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VTP
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT Torpedo−M0 Voltage − 0	0	N/A	−68440	−68340	106.0	2100	UV
HRLT Torpedo−M0 Voltage − 1	0	N/A	−73930	−73290	640.7	2100	UV
HRLT Torpedo−M0 Voltage − 2	0	N/A	−73610	−73150	462.2	2100	UV
HRLT Torpedo−M0 Voltage − 3	0	N/A	−74670	−74280	396.4	2100	UV
HRLT Torpedo−M0 Voltage − 4	0	N/A	−71250	−71050	203.0	2100	UV
HRLT Torpedo−M0 Voltage − 5	0	N/A	−70360	−70210	147.7	2100	UV
HRLT Torpedo−M0 Voltage − 6	0	N/A	70680	70180	−490.6	2100	UV
HRLT Torpedo−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VBD
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT Bridle#9−M0 Voltage − 0	0	N/A	−68430	−68320	110.2	2100	UV
HRLT Bridle#9−M0 Voltage − 1	0	N/A	−73910	−73280	637.2	2100	UV
HRLT Bridle#9−M0 Voltage − 2	0	N/A	−73590	−73130	456.7	2100	UV
HRLT Bridle#9−M0 Voltage − 3	0	N/A	−74650	−74260	384.8	2100	UV
HRLT Bridle#9−M0 Voltage − 4	0	N/A	−71250	−71040	204.3	2100	UV
HRLT Bridle#9−M0 Voltage − 5	0	N/A	−70340	−70210	134.8	2100	UV
HRLT Bridle#9−M0 Voltage − 6	0	N/A	70650	70160	−490.6	2100	UV
HRLT Bridle#9−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT ISO
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT Source Current Plus − 0	0	N/A	285.3	284.9	−0.3990	8.520	UA
HRLT Source Current Plus − 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array − B Wellsite Calibration − HRLT MV
Before: 20−Sep−2012 18:03 After: 20−Sep−2012 20:45

HRLT Vertical Voltage Pl − 0	0	N/A	−322.3	−321.4	0.8523	9.681	UV
HRLT Vertical Voltage Pl − 1	0	N/A	−335.6	−332.5	3.175	9.681	UV
HRLT Vertical Voltage Pl − 2	0	N/A	−332.8	−330.4	2.353	9.681	UV
HRLT Vertical Voltage Pl − 3	0	N/A	−333.9	−331.9	2.034	9.681	UV
HRLT Vertical Voltage Pl − 4	0	N/A	−317.3	−316.2	1.169	9.681	UV
HRLT Vertical Voltage Pl − 5	0	N/A	−328.1	−327.2	0.9027	9.681	UV
HRLT Vertical Voltage Pl − 6	0	N/A	339.4	336.7	−2.633	9.681	UV
HRLT Vertical Voltage Pl − 7	0	N/A	−322.7	−322.7	0	9.681	UV

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check
Master: 15−Jul−2012 1:37 Before: 21−Sep−2012 1:23 After: 21−Sep−2012 1:28

Na 511 Peak Loc	40.00	39.55	39.64	39.63	−0.01205	1.000	
Na 511 Peak Res	15.50	15.74	14.62	14.61	−0.01343	2.000	%
High Voltage	1150	1192	1133	1131	−1.140	N/A	V
Na 1785 Peak Loc	142.6	141.9	143.3	142.5	−0.8368	7.000	
Na 1785 Peak Res	8.500	8.399	8.136	7.484	−0.6517	2.000	%
Temperature	15.50	30.02	5.829	5.848	0.01951	N/A	DEGC
Na Count Rate	45.00	18.00	15.48	15.98	0.5035	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check
Master: 15−Jul−2012 1:37 Before: 21−Sep−2012 1:23 After: 21−Sep−2012 1:28

Na 511 Peak Loc	40.00	39.55	39.64	39.78	0.1437	1.000	
Na 511 Peak Res	15.50	16.74	16.05	14.99	−1.060	2.000	%
High Voltage	1150	1112	1067	1067	0.09460	N/A	V
Na 1785 Peak Loc	142.6	142.2	141.8	141.9	0.09863	7.000	
Na 1785 Peak Res	8.500	9.140	8.464	9.198	0.7344	2.000	%
Temperature	15.50	30.92	6.453	6.596	0.1431	N/A	DEGC
Na Count Rate	45.00	18.43	15.49	16.22	0.7288	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: 15−Jul−2012 1:37 Before: 21−Sep−2012 1:23 After: 21−Sep−2012 1:28

Coincidence Count Rate Ratio	1.000	0.9742	0.9968	0.9870	−0.009778	0.05000	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 20−Sep−2012 18:08

EDTC Z−Axis Acceleration	9.810	N/A	9.852	N/A	N/A	N/A	M/S2

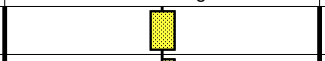
Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: 20−Sep−2012 18:08 After: 20−Sep−2012 21:12

Gamma Ray (Jig − Bkg)	159.7	N/A	159.7	162.2	2.544	14.52	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	167.6	2.629	15.00	GAPI

High Resolution Laterolog Array − B / Equipment Identification

Primary Equipment:		
HRLT Sonde	HRLS − B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH − B	968
HRLT Lower Cartridge	HRLC − B	974
HRLT upper Housing	HRUH − B	978
HRLT Upper Cartridge	HRUC − B	764

High Resolution Laterolog Array − B Wellsite Calibration
HRLT M01

Idx	Phase	HRLT M0−M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−320.1	−322.7	−280.7	−379.7
	After		−319.3			
1	Before		−341.6	−322.7	−280.7	−379.7
	After		−338.6			
2	Before		−339.5	−322.7	−280.7	−379.7
	After		−337.3			
3	Before		−342.4	−322.7	−280.7	−379.7
	After		−340.5			
4	Before		−328.1	−322.7	−280.7	−379.7
	After		−327.0			
	Before		−323.6			

5	After	−322.7	−322.7	−280.7	−379.7
6	Before	332.2	322.7	379.7	280.7
	After	329.8			
7	Before	−322.7	−322.7	−280.7	−379.7
	After	−322.7			
	(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1−M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1758	1781	2095	1549
	After		1755			
1	Before		1876	1781	2095	1549
	After		1860			
2	Before		1860	1781	2095	1549
	After		1848			
3	Before		1876	1781	2095	1549
	After		1866			
4	Before		1799	1781	2095	1549
	After		1794			
5	Before		1776	1781	2095	1549
	After		1772			
6	Before		−1832	−1781	−1549	−2095
	After		−1820			
7	Before		1781	1781	2095	1549
	After		1781			
	(Minimum) (Nominal) (Maximum)					

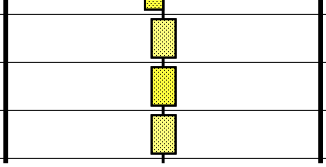
Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M23

Idx	Phase	HRLT M2−M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1745	1781	2095	1549
	After		1741			
1	Before		1875	1781	2095	1549
	After		1857			
2	Before		1860	1781	2095	1549
	After		1847			
3	Before		1879	1781	2095	1549
	After		1868			
4	Before		1796	1781	2095	1549
	After		1789			
5	Before		1773	1781	2095	1549
	After		1769			
	Before		−1819			

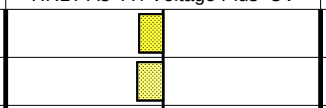
6	After		−1805	−1781	−1549	−2095
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V34

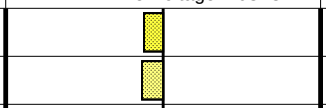
Idx	Phase	HRLT A3−A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68580	70000	82360	60900
	After		68470			
1	Before		73460	70000	82360	60900
	After		72830			
2	Before		73170	70000	82360	60900
	After		72710			
3	Before		74220	70000	82360	60900
	After		73830			
4	Before		70890	70000	82360	60900
	After		70690			
5	Before		70020	70000	82360	60900
	After		69890			
6	Before		−70280	−70000	−60900	−82360
	After		−69810			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4−A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68870	70000	82360	60900
	After		68760			
1	Before		73860	70000	82360	60900
	After		73240			
2	Before		73540	70000	82360	60900
	After		73080			
3	Before		74570	70000	82360	60900
	After		74180			
4	Before		71190	70000	82360	60900
	After		70990			
5	Before		70310	70000	82360	60900
	After		70180			
6	Before		−70670	−70000	−60900	−82360
	After		−70200			
	Before		70000			

7	After		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03
After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5−A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68760	70000	82360	60900
	After		68650			
1	Before		73580	70000	82360	60900
	After		72960			
2	Before		73290	70000	82360	60900
	After		72840			
3	Before		74370	70000	82360	60900
	After		74000			
4	Before		71050	70000	82360	60900
	After		70850			
5	Before		70190	70000	82360	60900
	After		70050			
6	Before		−70390	−70000	−60900	−82360
	After		−69900			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03
After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VTP

Idx	Phase	HRLT Torpedo−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68440	−70000	−60900	−82360
	After		−68340			
1	Before		−73930	−70000	−60900	−82360
	After		−73290			
2	Before		−73610	−70000	−60900	−82360
	After		−73150			
3	Before		−74670	−70000	−60900	−82360
	After		−74280			
4	Before		−71250	−70000	−60900	−82360
	After		−71050			
5	Before		−70360	−70000	−60900	−82360
	After		−70210			
6	Before		70680	70000	82360	60900
	After		70180			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			

		(Minimum)	(Nominal)	(Maximum)			

Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68430	−70000	−60900	−82360
	After		−68320			
1	Before		−73910	−70000	−60900	−82360
	After		−73280			
2	Before		−73590	−70000	−60900	−82360
	After		−73130			
3	Before		−74650	−70000	−60900	−82360
	After		−74260			
4	Before		−71250	−70000	−60900	−82360
	After		−71040			
5	Before		−70340	−70000	−60900	−82360
	After		−70210			
6	Before		70650	70000	82360	60900
	After		70160			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
		(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		285.3	284.0	334.1	247.0
	After		284.9			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
		(Minimum) (Nominal) (Maximum)				

Before: 20−Sep−2012 18:03

After: 20−Sep−2012 20:45

High Resolution Laterolog Array − B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−322.3	−322.7	−280.7	−379.7
	After		−321.4			
1	Before		−335.6	−322.7	−280.7	−379.7
	After		−332.5			
2	Before		−332.8	−322.7	−280.7	−379.7
	After		−330.4			
3	Before		−333.9	−322.7	−280.7	−379.7
	After		−331.9			
4	Before		−317.3	−322.7	−280.7	−379.7
	After		−316.2			
5	Before		−328.1	−322.7	−280.7	−379.7
	After		−327.2			
6	Before		339.4	322.7	379.7	280.7
	After		336.7			
7	Before		−322.7	−322.7	−280.7	−379.7
	After		−322.7			
		(Minimum) (Nominal) (Maximum)				
Before: 20−Sep−2012 18:03						
After: 20−Sep−2012 20:45						

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		39.55	Master		15.74	Master		1192	
Before		39.64	Before		14.62	Before		1133	
After		39.63	After		14.61	After		1131	
	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		8.399	Master		30.02	
Before		143.3	Before		8.136	Before		5.829	
After		142.5	After		7.484	After		5.848	
	135.0 142.6 150.2			7.000 8.500 11.00			28.80 15.50 60.00		

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		18.00
Before		15.48
After		15.98

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: 15−Jul−2012 1:37 Before: 21−Sep−2012 1:23 After: 21−Sep−2012 1:28

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.55
Before		39.64
After		39.78

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		16.74
Before		16.05
After		14.99

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1112
Before		1067
After		1067

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.2
Before		141.8
After		141.9

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		9.140
Before		8.464
After		9.198

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		30.92
Before		6.453
After		6.596

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		18.43
Before		15.49
After		16.22

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: 15−Jul−2012 1:37 Before: 21−Sep−2012 1:23 After: 21−Sep−2012 1:28

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9742
Before		0.9968
After		0.9870

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Master: 15−Jul−2012 1:37
Before: 21−Sep−2012 1:23
After: 21−Sep−2012 1:28

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG − A/B	77693
Enhanced DTS Cartridge	EDTC − B	8529

Auxiliary Equipment:

EDTC Housing	EDTH − B	8528

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration M/S2	Value
Before		9.852

9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)

Before: 20−Sep−2012 18:08

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value
Before		4.007
After		4.426

0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)

Phase	Gamma Ray (Jig − Bkg) GAPI	Value
Before		159.7
After		162.2

145.2 (Minimum) 159.7 (Nominal) 174.2 (Maximum)

Phase	Gamma Ray (Calibrated) GAPI	Value
Before		165.0
After		167.6

150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)

Before: 20−Sep−2012 18:08 After: 20−Sep−2012 21:12

Company: **Lamont Doherty Earth Observatory**
Shell

Well: **Expedition 344S, U0060A (USC60)**

Field: **Baffin Bay**

Rig: **JOIDES Resolution**

Country: **USA**

Schlumberger

DSI Sonic Imager
P & S Monopole