



Rig: JOIDES Resolution Field: Baffin Bay Location: Latitude: N 75° 42' 58.35" Well: Expedition 344S, U0060A (USC68) Company: Lamont Doherty Earth Observatory	DSI Sonic Imager Lower Dipole				
	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: <u>Mean Sea Level</u>		Elev.: <u>0.00 m</u>	
		Log Measured From: <u>Sea Floor</u>		11.00 m above Perm. Datum	
		Drilling Measured From: <u>Drill Floor</u>			
	Ocean: Atlantic	Max. Well Deviation 0 deg		Longitude N 75° 42' 58.35"	Latitude W 65° 57' 12.19"

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					
	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	@ 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					

[illegible]

Run 4

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.

OS1: MSS
OS2: HRLA
OS3: HNGS

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 chassis 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.

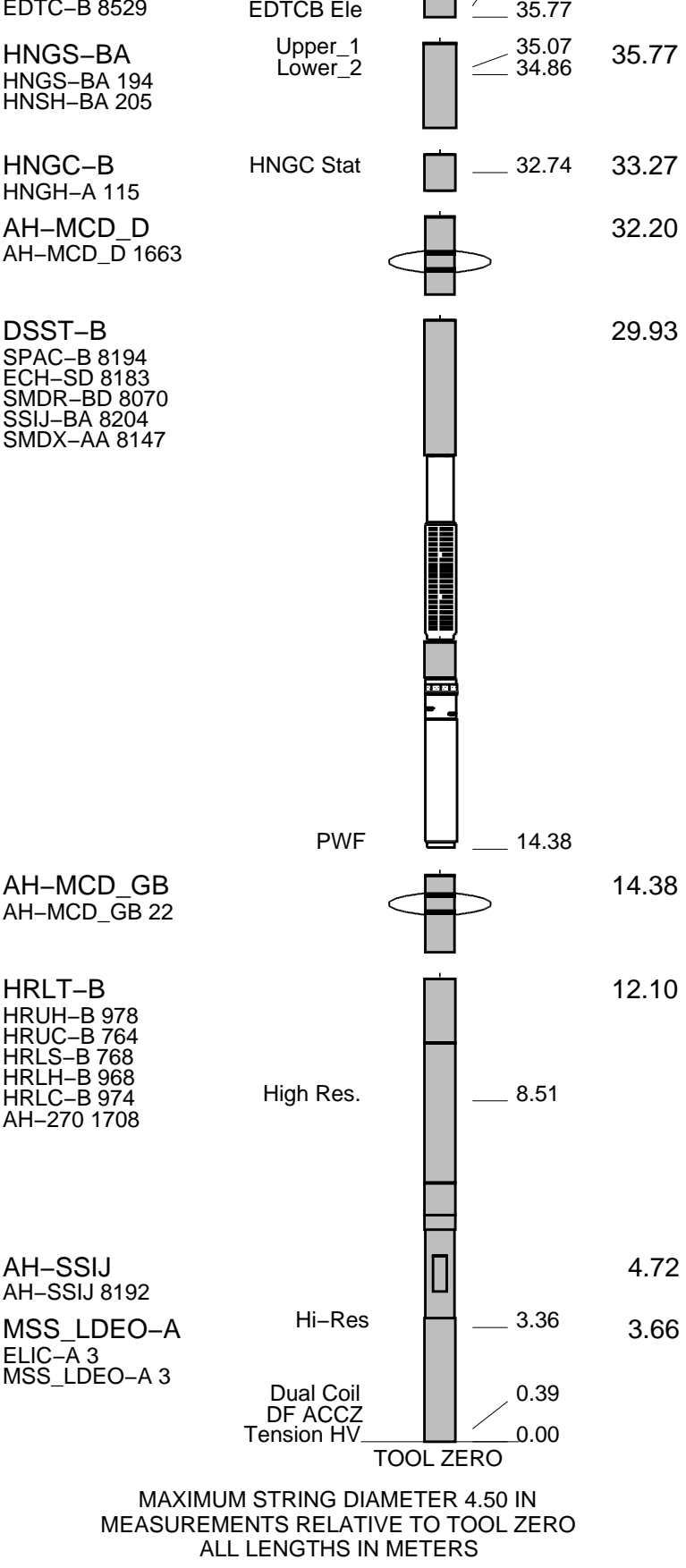
- P&S Monopole in Standard Frequency
- Upper Dipole in Low Frequency
- Lower Dipole in Standard Frequency
- Stoneley in Standard Frequency

STOP

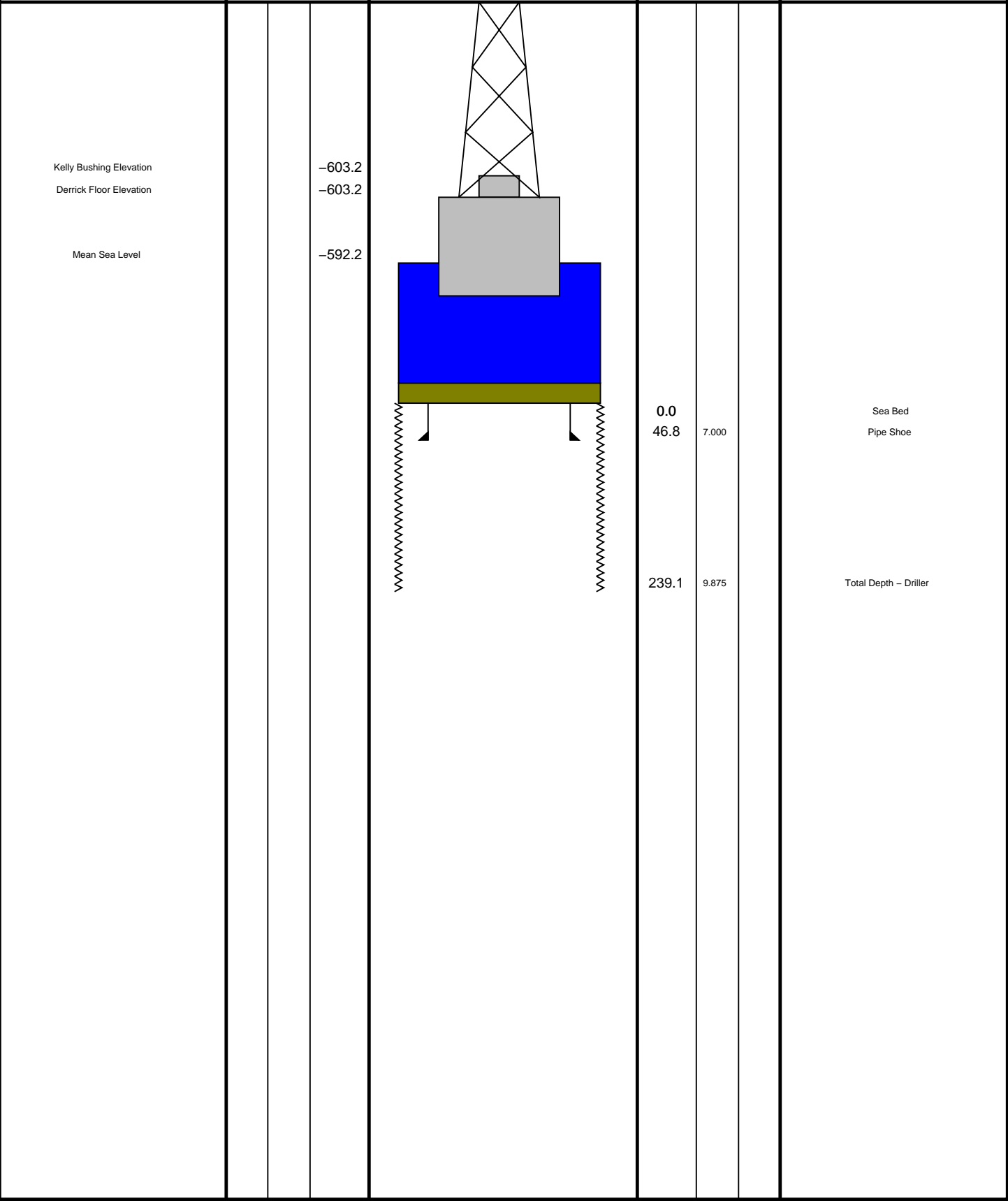
RUN 2

GSR-U 616008
WITM (EDTS)-A

LEH-MT					
LEH-MT 101	MDSB_EDTC				39.15
AH-369	Mud Tempe				
	CTEM				
EDTC-B	Gamma Ray				37.75
EDTH-B 8528	EFTB DIAG				36.69
	TelStatus				36.12



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





Up Log

MAXIS Field Log

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_DSI_007LUP	FN:6	PRODUCER	28-Sep-2012 00:21	788.7 M	579.3 M
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Output DLIS Files

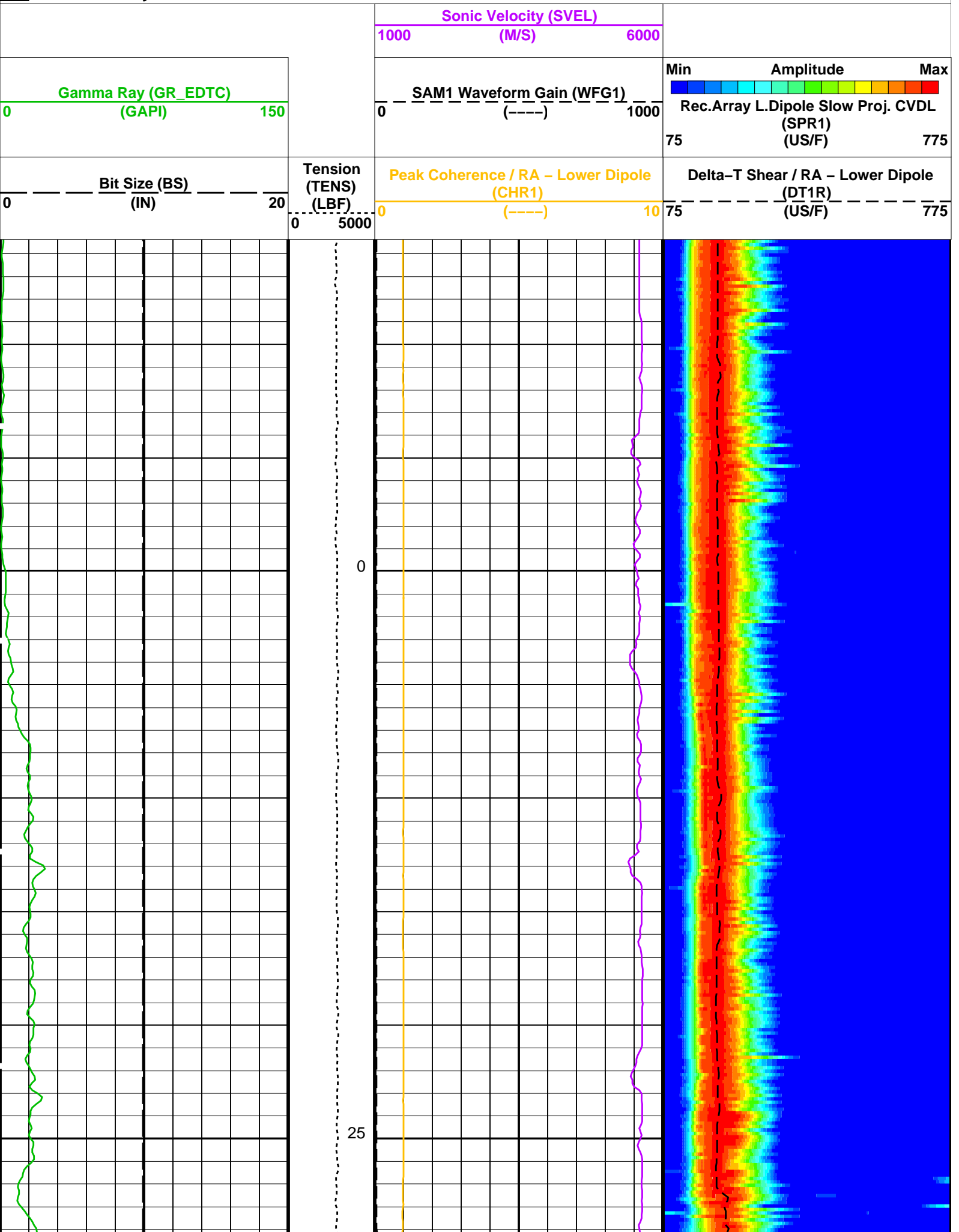
DEFAULT	MSS_LDEO_HRLA_DSI_011PUP	FN:10	PRODUCER	28-Sep-2012 20:08	194.3 M	-14.6 M
CLIENT	MSS_LDEO_HRLA_DSI_011PUC	FN:11	CUSTOMER	28-Sep-2012 20:08	194.3 M	-14.6 M

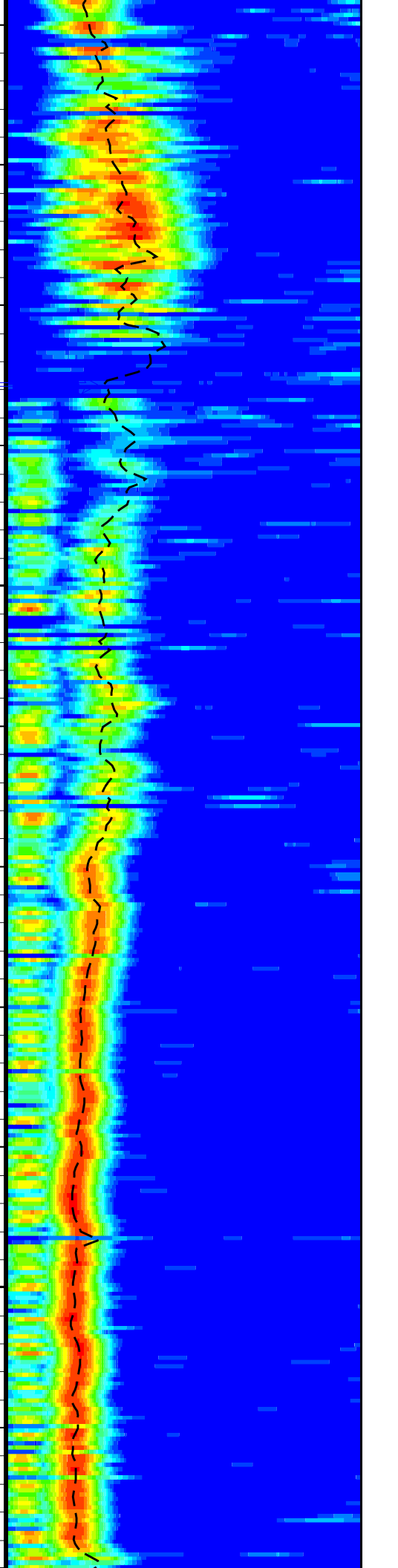
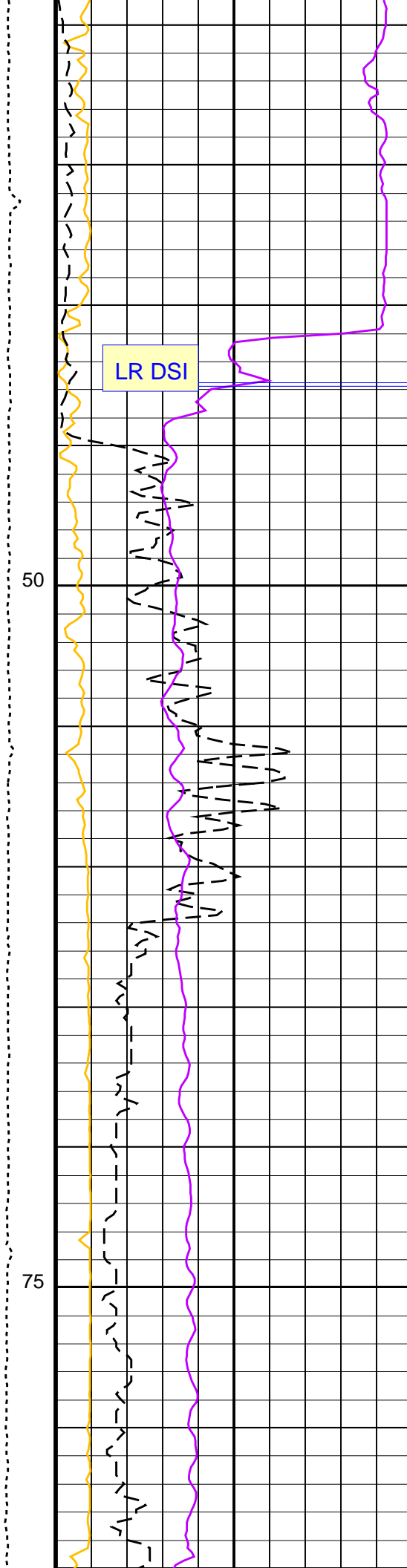
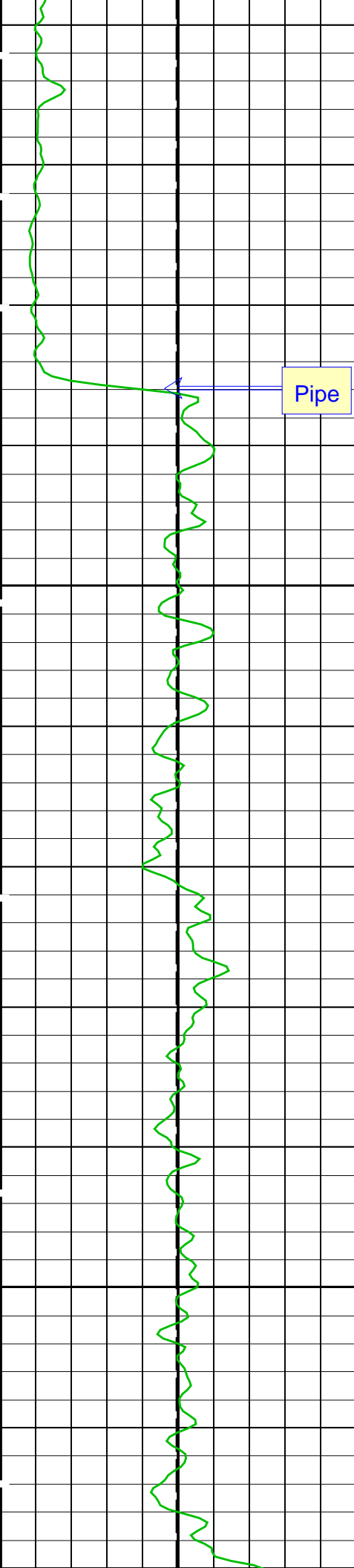
OP System Version: 19C0-187

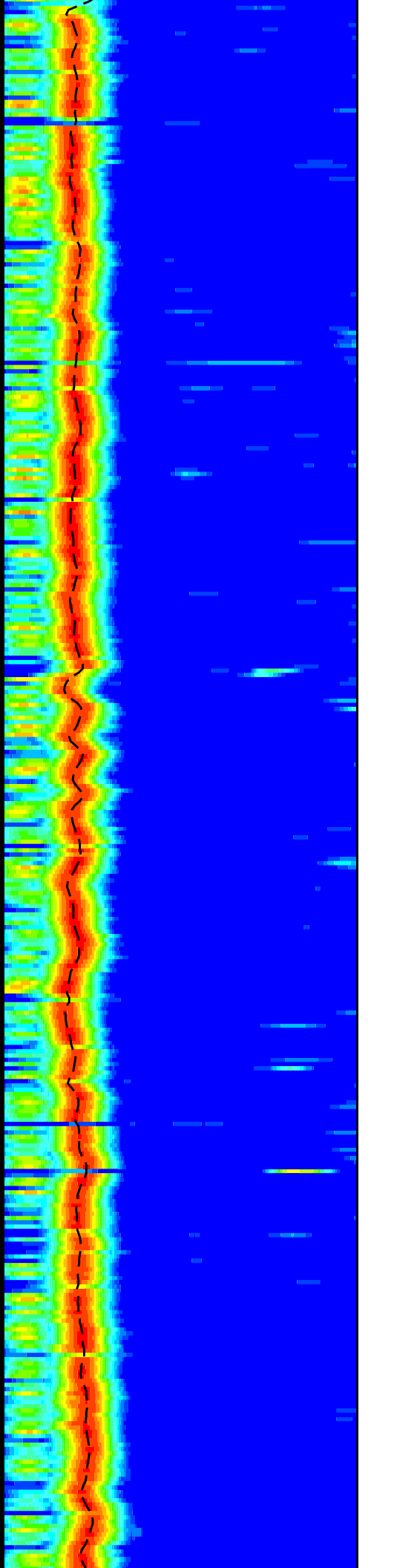
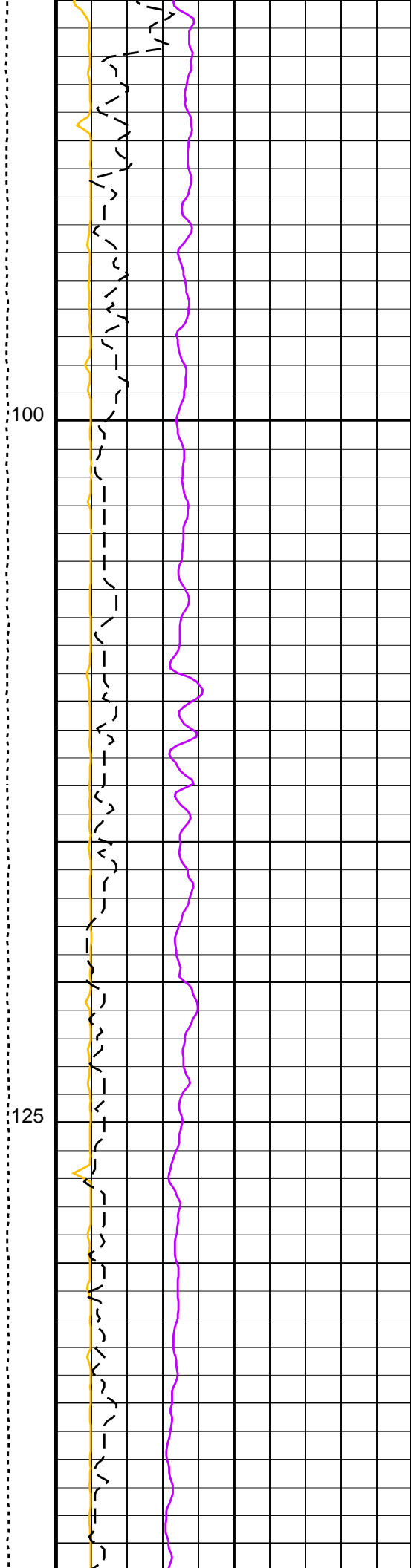
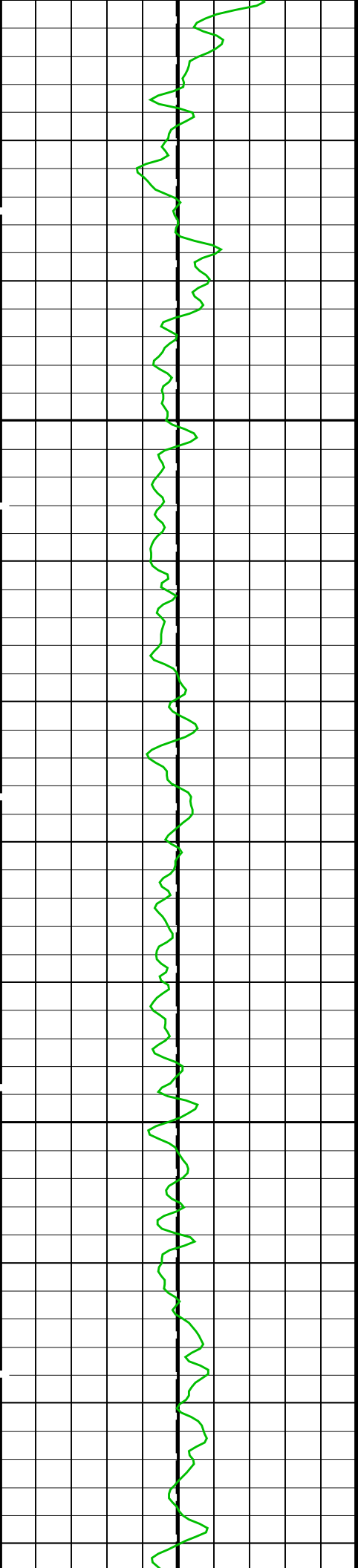
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

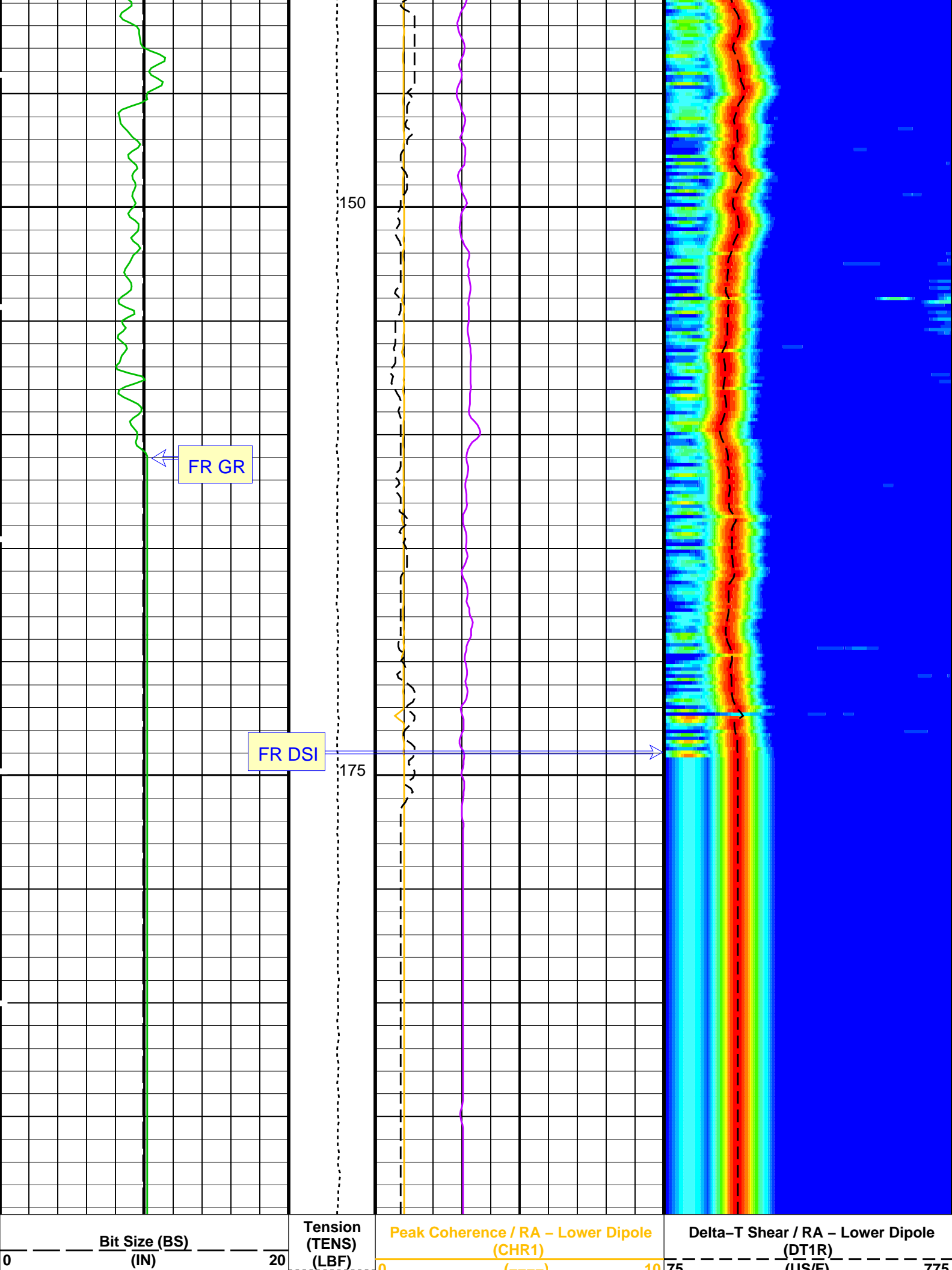
PIP SUMMARY

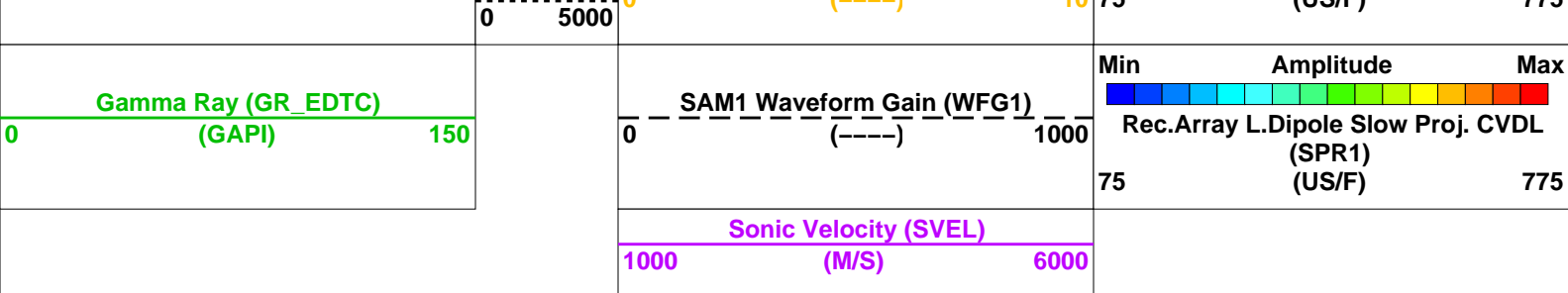
Time Mark Every 60 S











PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
DDE1	Digitizing Delay 1	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source - Dipole Shear	USE
DSHL	Label Slowness Lower Limit - Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	775 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DWC1	Digitizer Word Count 1	512
DWCX	Digitizer Word Count X	512
LTXG	Lower Dipole Transmitter Geometry	156 IN
NW11	Number Waveform Items 1	8
NWIX	Number Waveform Items X	0
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
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	EVEN
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS1	STC Sonic Array Status - Lower Dipole	255
SBO1	STC Search Band Offset - Lower Dipole	3000 US
SBW1	STC Search Bandwidth - Lower Dipole	8000 US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE
SFM1	STC Filter - Lower Dipole	B1-3K
SLL1	STC Slowness Lower Limit - Lower Dipole	75 US/F
SST1	STC Slowness Step - Lower Dipole	4 US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1
SUL1	STC Slowness Upper Limit - Lower Dipole	775 US/F
SWD1	STC Slowness Width - Lower Dipole	40 US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0 US
TLL1	STC Time Lower Limit - Lower Dipole	600 US
TST1	STC Time Step - Lower Dipole	200 US
TUL1	STC Time Upper Limit - Lower Dipole	15912.5 US
TWD1	STC Time Width - Lower Dipole	2000 US
TWI1	STC Integration Time Window - Lower Dipole	1600 US
TWSX	Transmitter Waveform Select X	0
WFM1	Waveform Mode 1	W1
System and Miscellaneous		
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	-594.0 M
PP	Playback Processing	NORMAL

Format: DSST_LOWER_DIPOLE_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

Schlumberger

Down Log

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_020PUP	PRODUCER	28-Sep-2012 20:28	153.0 M	-10.1 M
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Output DLIS Files

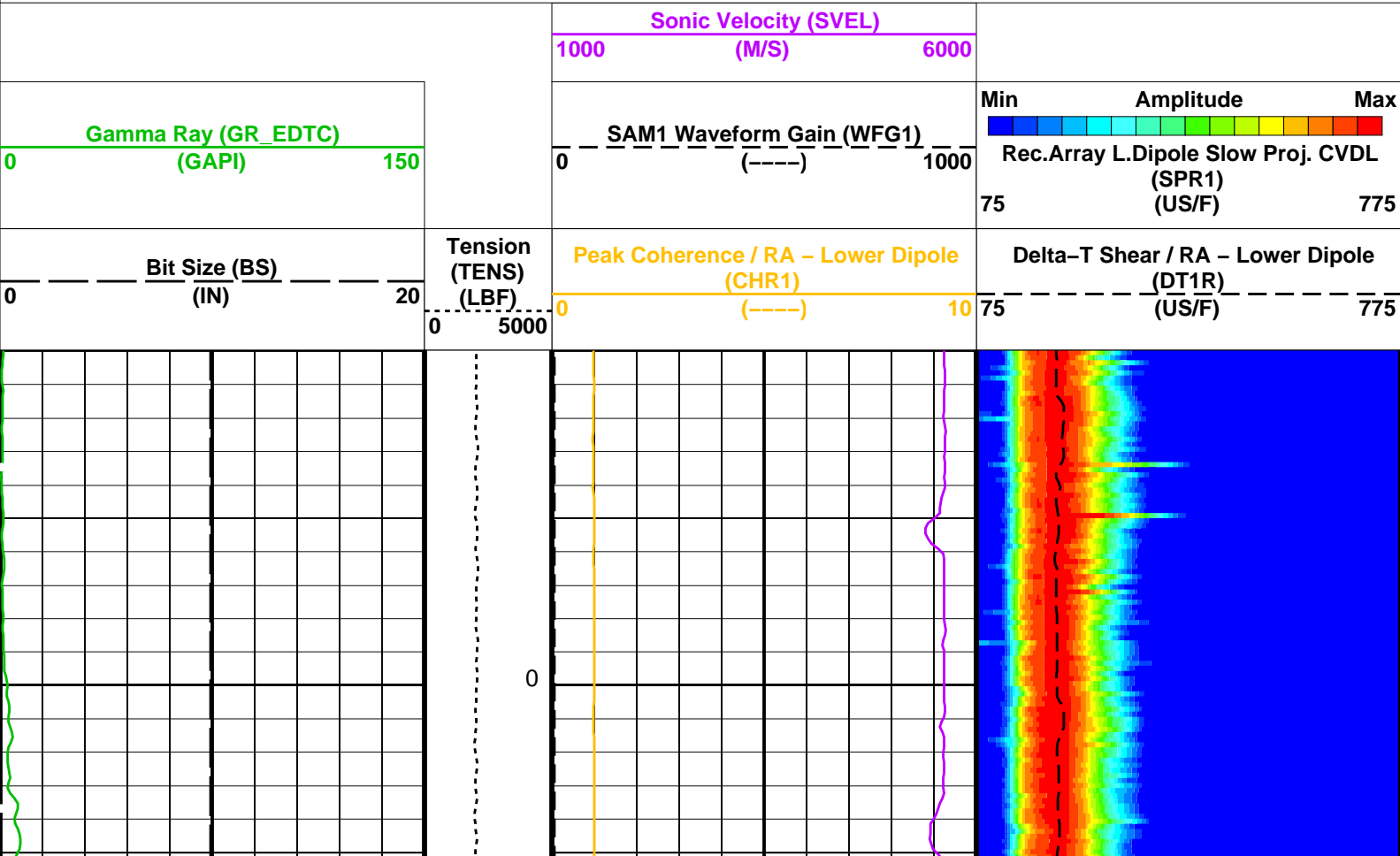
DEFAULT	MSS_LDEO_HRLA_DSI_021PUP	FN:26	PRODUCER	28-Sep-2012 20:29	153.0 M	-10.1 M
CLIENT	MSS_LDEO_HRLA_DSI_021PUC	FN:27	CUSTOMER	28-Sep-2012 20:29	153.0 M	-10.1 M

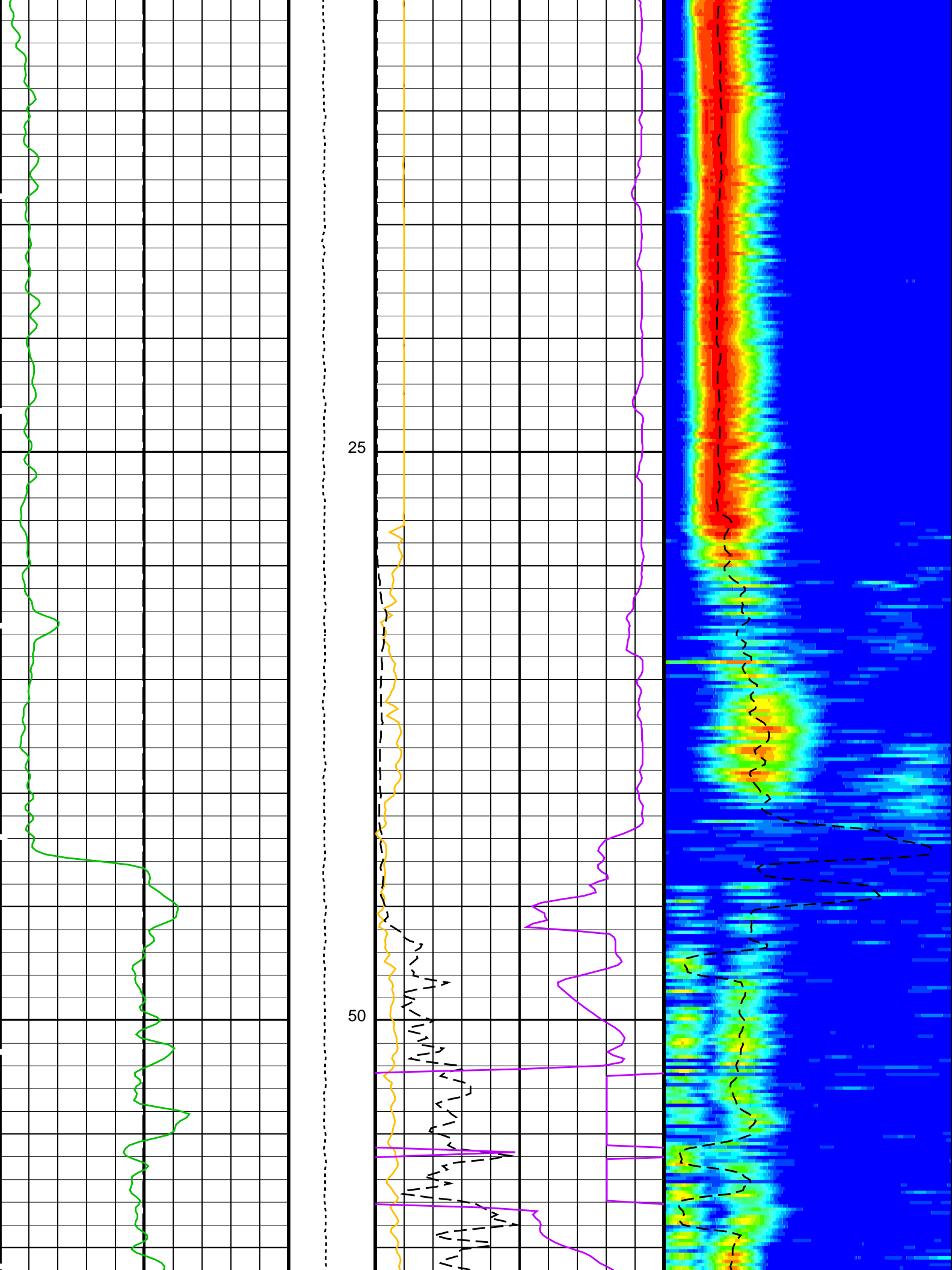
OP System Version: 19C0-187

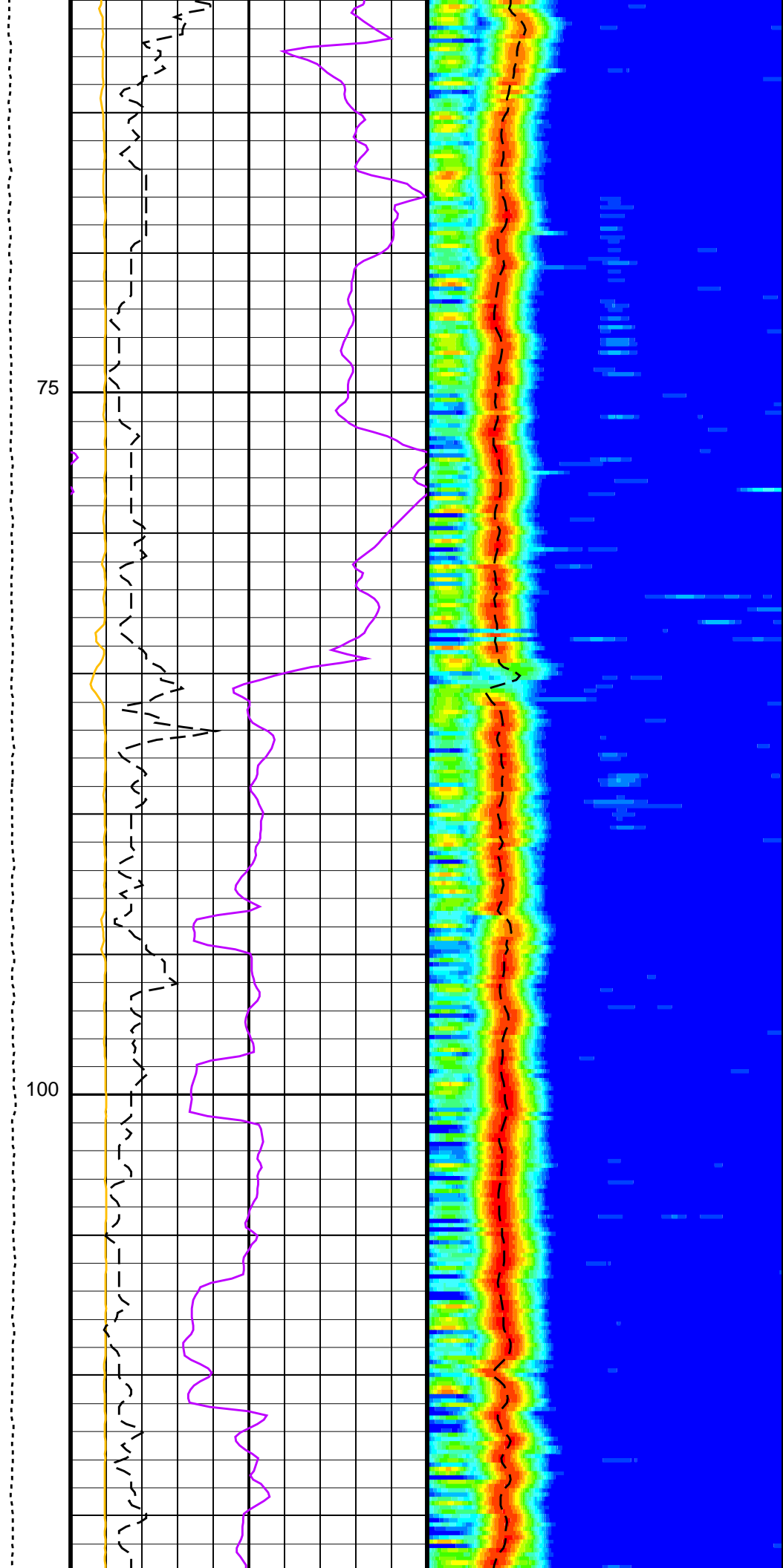
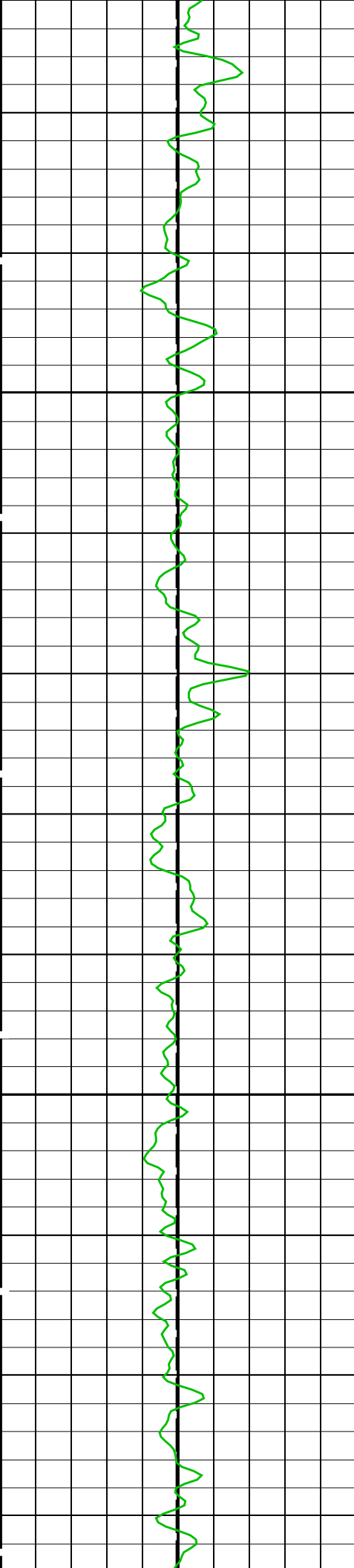
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

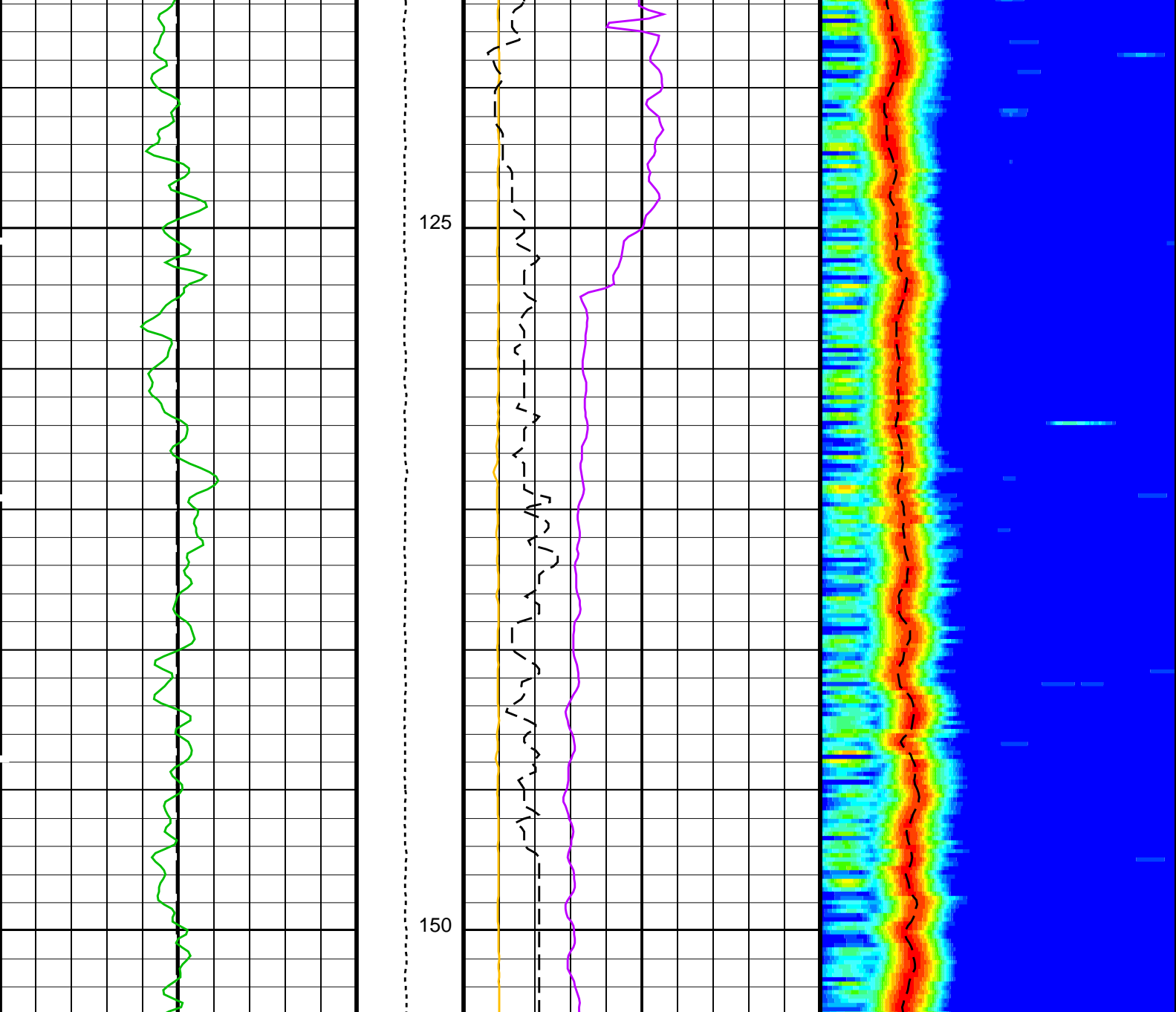
PIP SUMMARY

Time Mark Every 60 S









0 — Bit Size (BS) (IN) — 20		0 — Tension (TENS) (LBF) — 5000		0 — Peak Coherence / RA – Lower Dipole (CHR1) (----) — 10		75 — Delta-T Shear / RA – Lower Dipole (DT1R) (US/F) — 775	
0 — Gamma Ray (GR_EDTC) (GAPI) — 150				0 — SAM1 Waveform Gain (WFG1) (----) — 1000		75 — Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F) — 775	
				1000 — Sonic Velocity (SVEL) (M/S) — 6000		Min Amplitude Max Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F)	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DDE1	Digitizing Delay 1	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	775	US/F

DSHU	Label Slowness Upper Limit – Dipole Shear	775	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	40	US
DTC5	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWIX	Number Waveform Items X	0	
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
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B1–3K	
SLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit – Lower Dipole	775	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	15912.5	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST_LOWER_DIPOLE_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
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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	-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 PI – 0	0	N/A	–322.3	–321.4	0.8523	9.681	UV
HRLT Vertical Voltage PI – 1	0	N/A	–335.6	–332.5	3.175	9.681	UV
HRLT Vertical Voltage PI – 2	0	N/A	–332.8	–330.4	2.353	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	–333.9	–331.9	2.034	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	–317.3	–316.2	1.169	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	–328.1	–327.2	0.9027	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	339.4	336.7	–2.633	9.681	UV
HRLT Vertical Voltage PI – 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	
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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
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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			
5	Before		–323.6	–322.7	–280.7	–379.7
	After		–322.7			
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			
6	Before		-1819	-1781	-1549	-2095
	After		-1805			
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			
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 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:

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 (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	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value			
Master			39.55	Master			16.74	Master			1112			
Before			39.64	Before			16.05	Before			1067			
After			39.78	After			14.99	After			1067			
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			142.2	Master			9.140	Master			30.92			
Before			141.8	Before			8.464	Before			6.453			
After			141.9	After			9.198	After			6.596			
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			18.43											
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			

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG – A/B
EDTC – B

77693
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	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		4.007	Before		159.7	Before		165.0
After		4.426	After		162.2	After		167.6
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			145.2 (Minimum) 159.7 (Nominal) 174.2 (Maximum)			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
Lower Dipole