Schlumberger

Company: **Lamont Doherty**

Well: **NGHP–01–15A**

Field:

RIG **Joides Resolution** Ocean **Bengal Bay**

Dipole Shear Sonic Tool

Gamma Ray

RIG: Joides Resolution
Field:
Location:
Well: NGHP–01–15A
Company: Lamont Doherty

LOCATION

		Elev.: K.B.	11.3 m
		G.L.	–937.9 m
		D.F.	11.3 m
Permanent Datum:	Mean Sea Level	Elev.:	0 m
Log Measured From:	Drill Floor	11.3 m	above Perm. Datum
Drilling Measured From:	Drill FLoor		

API Serial No.	Latitude	Longitude
	16* 05.6983' N	82* 09.7467' E

Logging Date			14–Jul–2006						Logging Date
Run Number			One						Run Number
Depth Driller			1137.9 m						Depth Driller
Schlumberger Depth			1140 m						Schlumberger Depth
Bottom Log Interval			1137 m						Bottom Log Interval
Top Log Interval			993 m						Top Log Interval
Casing Driller Size @ Depth			0.000 in	@	993 m		@		Casing Driller Size @ Depth
Casing Schlumberger			993 m						Casing Schlumberger
Bit Size			11.438 in						Bit Size
Type Fluid In Hole			Sepiolite						Type Fluid In Hole
MUD	Density	Viscosity	1.06645 g/cm3						MUD Density / Viscosity
MUD	Fluid Loss	PH							MUD Fluid Loss / PH
MUD	Source Of Sample								MUD Source Of Sample
RM @ Measured Temperature				@			@		RM @ Measured Temperature
RMF @ Measured Temperature				@			@		RMF @ Measured Temperature
RMC @ Measured Temperature				@			@		RMC @ Measured Temperature
Source RMF	RMC								Source RMF / RMC
RM @ MRT	RMF @ MRT		@		@	@		@	RM @ MRT / RMF @ MRT
Maximum Recorded Temperatures									Maximum Recorded Temperatures
Circulation Stopped		Time	14–Jul–2006		8:00				Circulation Stopped / Time
Logger On Bottom		Time	14–Jul–2006		17:00				Logger On Bottom / Time
Unit Number	Location		2082	Webster, TX					Unit Number / Location
Recorded By			Javier Espinosa						Recorded By
Witnessed By			Gilles Guerin, Golam Sarker						Witnessed By

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED–DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED–DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED–DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED–DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: FMS	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
All parameters ans presentations as per client request	
Tool ran as per tool sketch below	

RUN 1	RUN 2
SERVICE ORDER #:	SERVICE ORDER #:
PROGRAM VERSION: 12C0–301	PROGRAM VERSION:
FLUID LEVEL:	FLUID LEVEL:

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

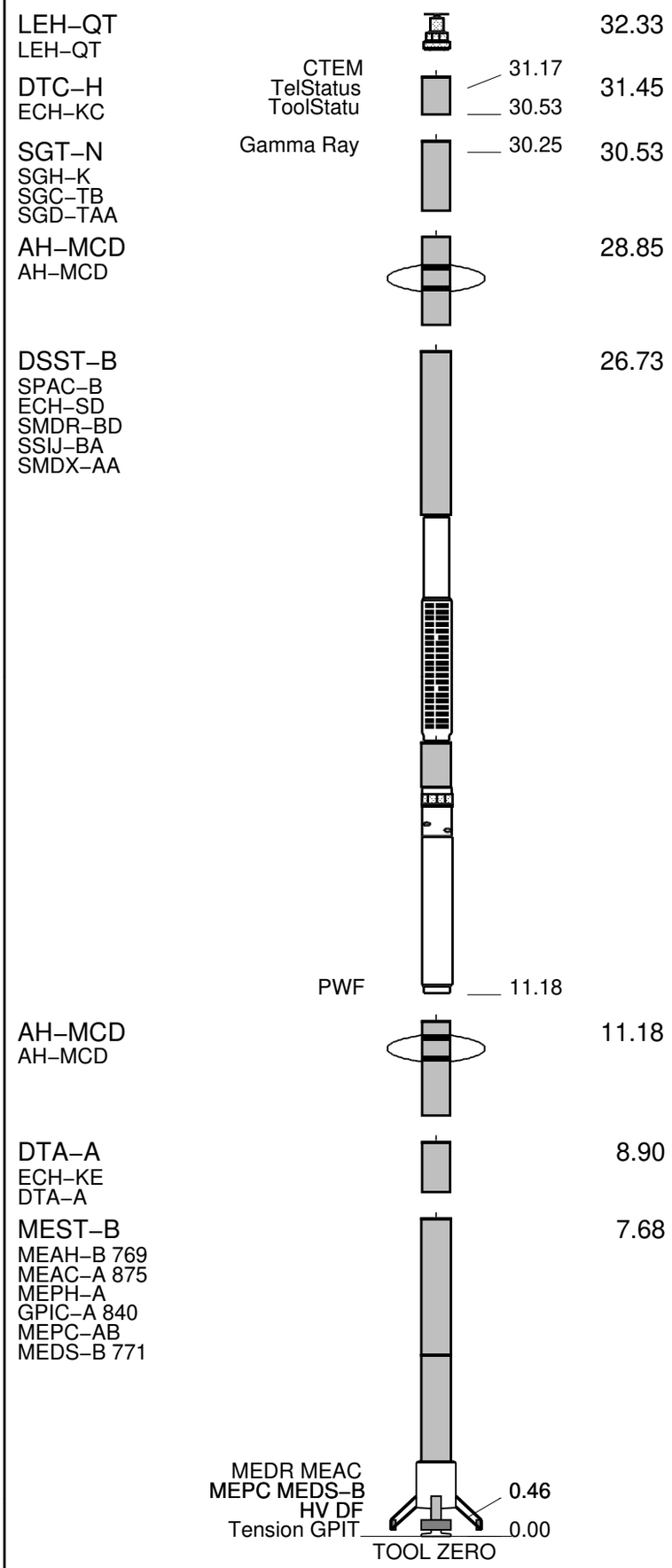
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

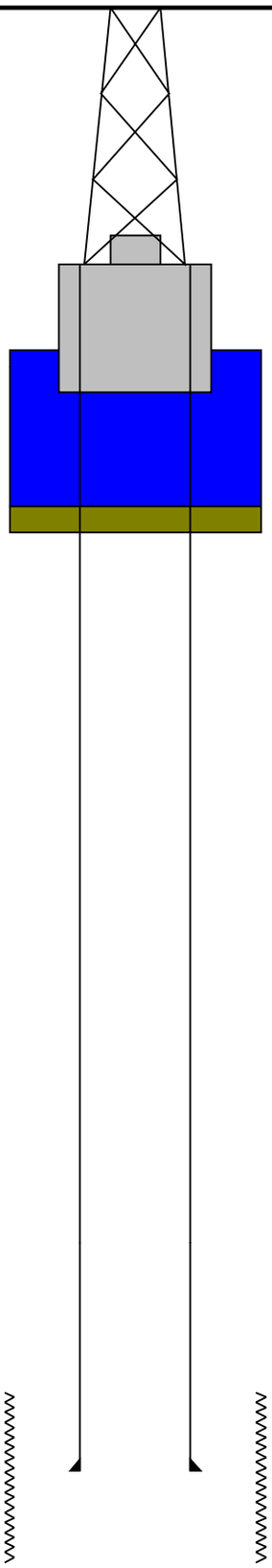
GSR–U/Y
WITM (DTS)–A

DOWNHOLE EQUIPMENT



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
Kelly Bushing Elevation			11.0					
Derrick Floor Elevation			11.0		11.0	5.000		Rig Floor
Mean Sea Level			0.0					
					937.9	11.430		Sea Floor
					1002.0	5.000		Bit Depth



Schlumberger

FIRST PASS

MAXIS Field Log

Output DLIS Files

DEFAULT	FMS_DSI_014LUP	FN:16	PRODUCER	14–Jul–2006 17:06	1140.0 M	1022.8 M
REDUCED	FMS_DSI_014LUP	FN:17	PRODUCER	14–Jul–2006 17:06	1140.0 M	1022.8 M

OP System Version: 12C0–301

MCM

MEST–B	12C0–301	DTA–A	12C0–301
DSST–B	12C0–301	SGT–N	12C0–301
DTC–H	12C0–301		

PIP SUMMARY

Time Mark Every 60 S

Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)
0 (----) 10

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

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

Peak Coherence / RA – Upper Dipole (CHR2)
0 (----) 10

Tension (TENS)
10000 (LBF) 0

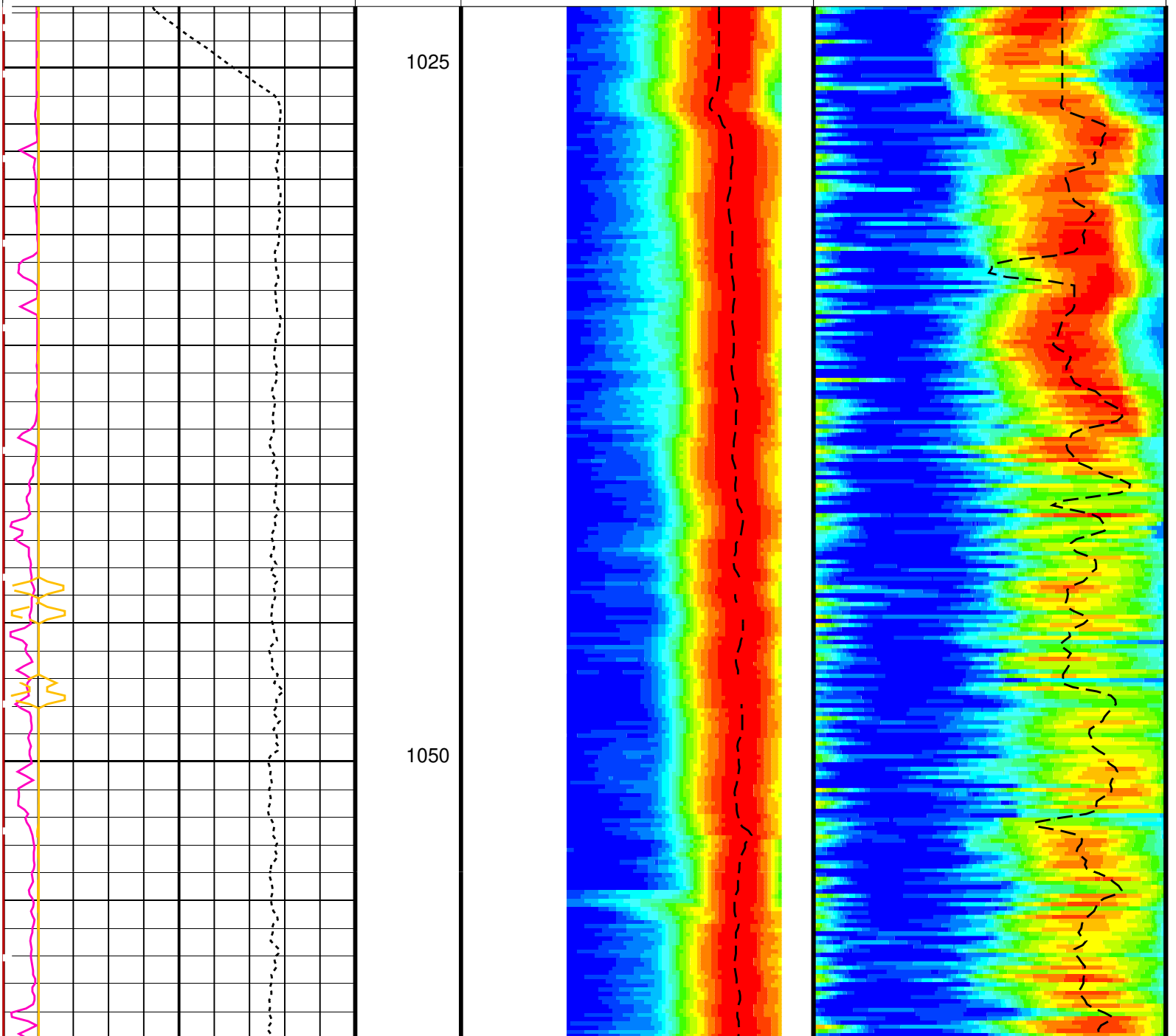
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

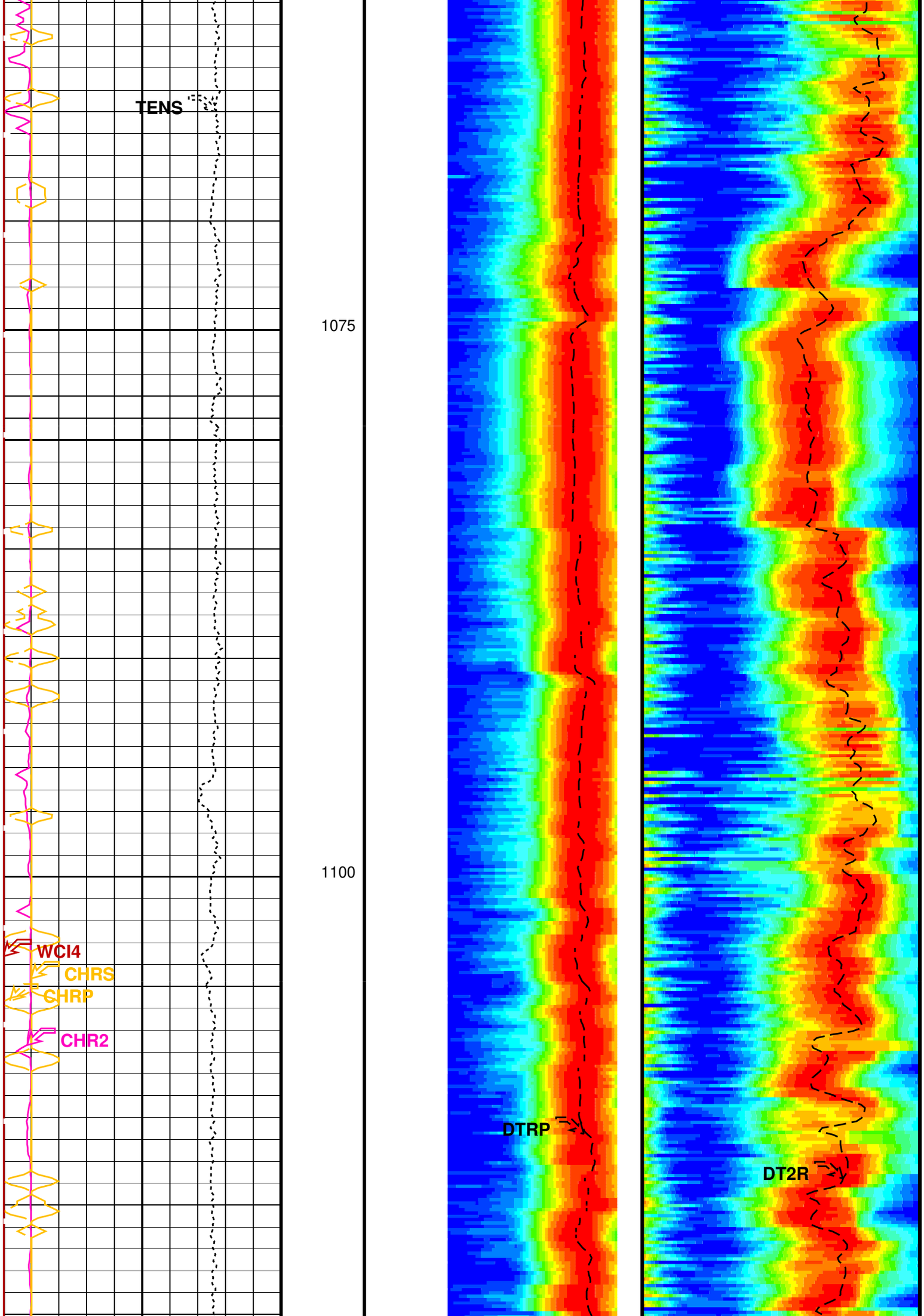
Delta–T Shear / RA – P & S (DTRS)
40 (US/F) 240

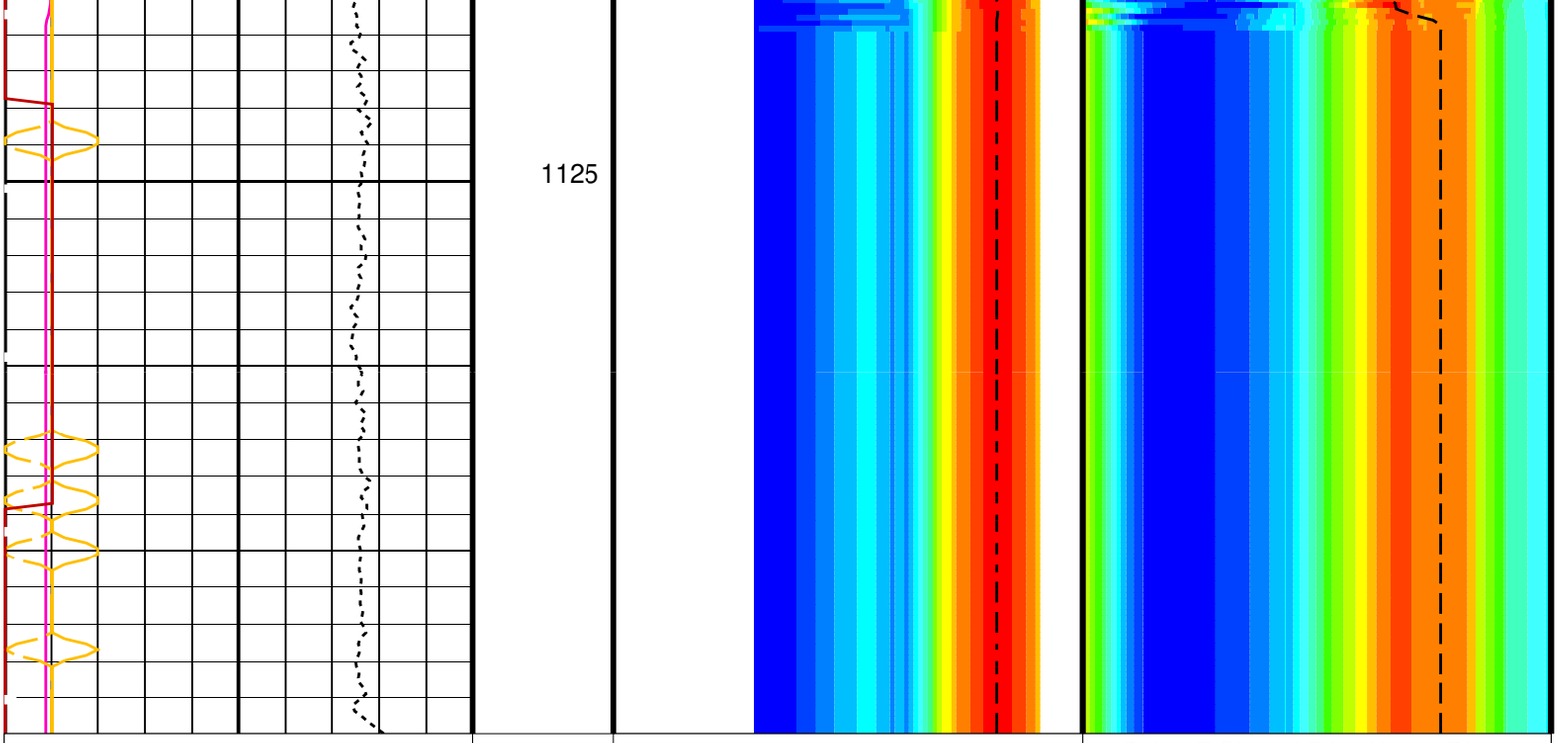
Delta–T Comp / RA – P & S (DTRP)
40 (US/F) 240

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
250 (US/F) 1600

Delta–T Shear / RA – Upper Dipole (DT2R)
250 (US/F) 1600




TENS
1075
1100
WCI4
CHRS
CHRP
CHR2
DTRP
DT2R



Tension (TENS)
10000 (LBF) 0

Peak Coherence / RA – Upper Dipole (CHR2)
0 (----) 10

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

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

Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)
0 (----) 10

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

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

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

Delta–T Shear / RA – Upper Dipole (DT2R)
250 (US/F) 1600

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
250 (US/F) 1600

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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	100	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	220	US/F
DDE2	Digitizing Delay 2	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	250	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1600	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta–T Source for DTCO Channel	PS_COMP	
DTF	Delta–T Fluid	189	US/F
DWC2	Digitizer Word Count 2	512	
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
NWI2	Number Waveform Items 2	8	

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
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	LFD_ODD	
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	LFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B.3–1.5K	
SFM4	STC Filter – Monopole P&S	B3–12K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	120	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	220	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	250	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	100	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
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
SUL2	STC Slowness Upper Limit – Upper Dipole	1600	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	220	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL2	STC Time Lower Limit – Upper Dipole	1750	US
TLL4	STC Time Lower Limit – Monopole P&S	400	US
TST2	STC Time Step – Upper Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL2	STC Time Upper Limit – Upper Dipole	20440	US
TUL4	STC Time Upper Limit – Monopole P&S	3480	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
SGT–N: Scintillation Gamma–Ray – N			
BHS	Borehole Status	OPEN	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 14–Jul–2006 17:06

OP System Version: 12C0–301

MCM

MEST–B	12C0–301	DTA–A	12C0–301
DSST–B	12C0–301	SGT–N	12C0–301
DTC–H	12C0–301		

Output DLIS Files

DEFAULT	FMS_DSI_014LUP	FN:16	PRODUCER	14–Jul–2006 17:06
REDUCED	FMS_DSI_014LUP	FN:17	PRODUCER	14–Jul–2006 17:06

Schlumberger

SECOND PASS

MAXIS Field Log

Output DLIS Files

DEFAULT	FMS_DSI_015LUP	FN:18	PRODUCER	14–Jul–2006 17:50	1140.0 M	999.9 M
REDUCED	FMS_DSI_015LUP	FN:19	PRODUCER	14–Jul–2006 17:50	1140.0 M	999.9 M

OP System Version: 12C0–301

MCM

MEST–B	12C0–301	DTA–A	12C0–301
DSST–B	12C0–301	SGT–N	12C0–301
DTC–H	12C0–301		

PIP SUMMARY

Time Mark Every 60 S

Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)
0 (----) 10

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

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

Peak Coherence / RA – Upper Dipole (CHR2)
0 (----) 10

Tension (TENS)
10000 (LBF) 0

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

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

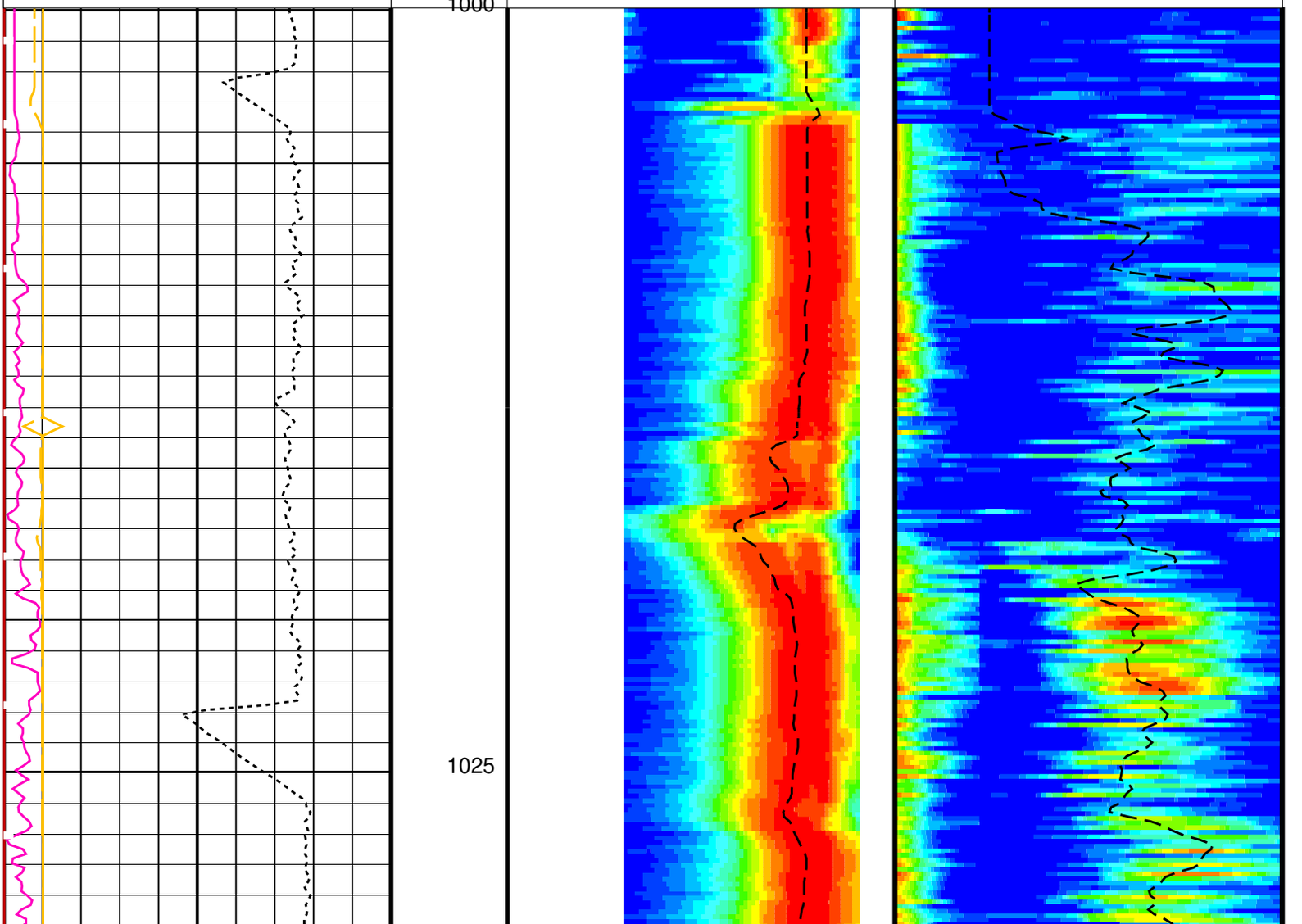
Delta–T Comp / RA – P & S (DTRP)
40 (US/F) 240

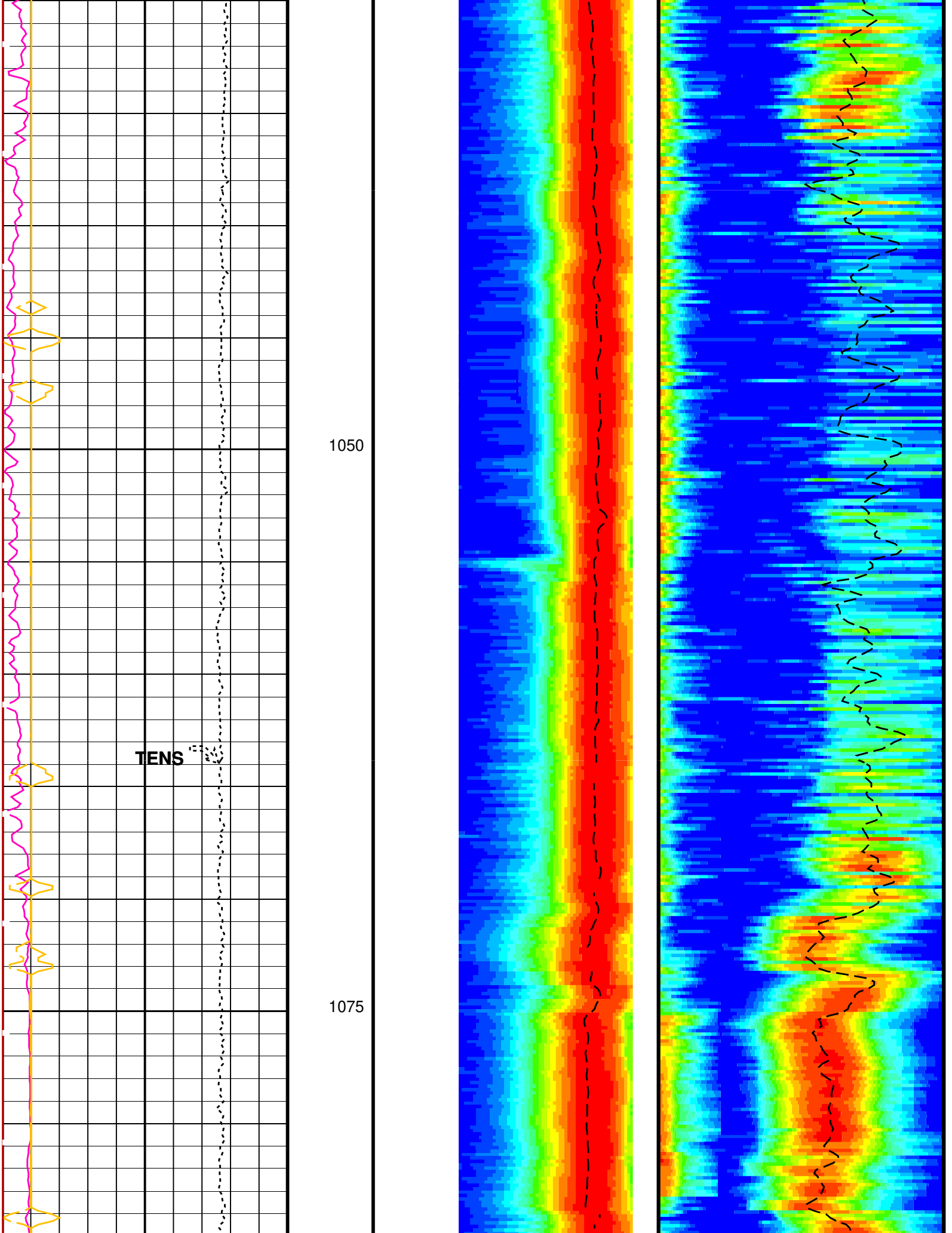
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
250 (US/F) 1600

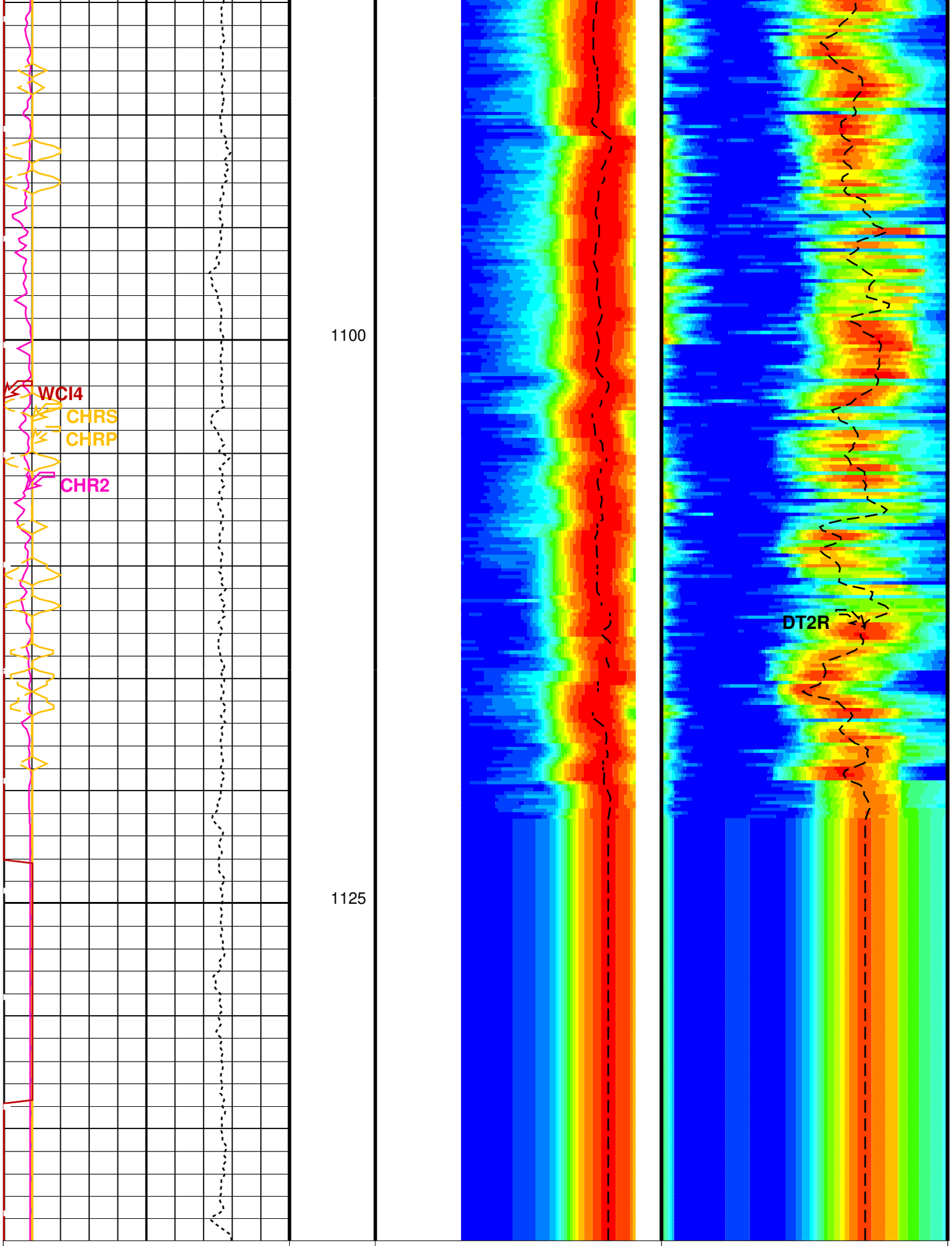
Delta–T Shear / RA – Upper Dipole (DT2R)
250 (US/F) 1600

1000

1025




TENS
1050
1075


1100
1125
WCI4
CHRS
CHRP
CHR2
DT2R
Tension (TENS)
10000 (LBF) 0
Delta–T Comp / RA – P & S (DTRP)
40 (US/F) 240
Delta–T Shear / RA – Upper Dipole (DT2R)
250 (US/F) 1600

Peak Coherence / RA – Upper Dipole (CHR2)
0 (----) 10

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

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

Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)
0 (----) 10

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

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
250 (US/F) 1600

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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	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	100	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	220	US/F
DDE2	Digitizing Delay 2	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	250	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1600	US/F
DSI2	Digitizer Sample Interval 2	10	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta–T Source for DTCO Channel	PS_COMP	
DTF	Delta–T Fluid	189	US/F
DWC2	Digitizer Word Count 2	512	
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
NWI2	Number Waveform Items 2	0	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	32	
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
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	OFF	
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	LFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	BCR	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	

SFM2	STC Filter – Upper Dipole	B.5–1.5K	
SFM4	STC Filter – Monopole P&S	B3–12K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	120	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	220	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	250	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	100	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	ODD_IN_SAMX	
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
SUL2	STC Slowness Upper Limit – Upper Dipole	1600	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	220	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL2	STC Time Lower Limit – Upper Dipole	1750	US
TLL4	STC Time Lower Limit – Monopole P&S	400	US
TST2	STC Time Step – Upper Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL2	STC Time Upper Limit – Upper Dipole	20440	US
TUL4	STC Time Upper Limit – Monopole P&S	3480	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
SGT–N: Scintillation Gamma–Ray – N			
BHS	Borehole Status	OPEN	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 14–Jul–2006 17:50

OP System Version: 12C0–301

MCM

MEST–B	12C0–301	DTA–A	12C0–301
DSST–B	12C0–301	SGT–N	12C0–301
DTC–H	12C0–301		

Output DLIS Files

DEFAULT	FMS_DSI_015LUP	FN:18	PRODUCER	14–Jul–2006 17:50
REDUCED	FMS_DSI_015LUP	FN:19	PRODUCER	14–Jul–2006 17:50

Company: **Lamont Doherty**

Schlumberger

Well: **NGHP–01–15A**

Field:

RIG **Joides Resolution**

Ocean **Bengal Bay**

Dipole Shear Sonic Tool

Gamma Ray