Schlumberger

Company: Lamont Doherty

Well: ODP Leg 204, Site 1244E
Field: Hydrate Ridge
Ocean: Pacific State: Oregon

Ocean: Pacific
Field: Hydrate Ridge
Location: W 125* 7.1703'
Well: ODP Leg 204, Site 1244E
Company: Lamont Doherty

Dipole Shear Sonic
P&S Compressional Monopole
Gamma Ray

LOCATION

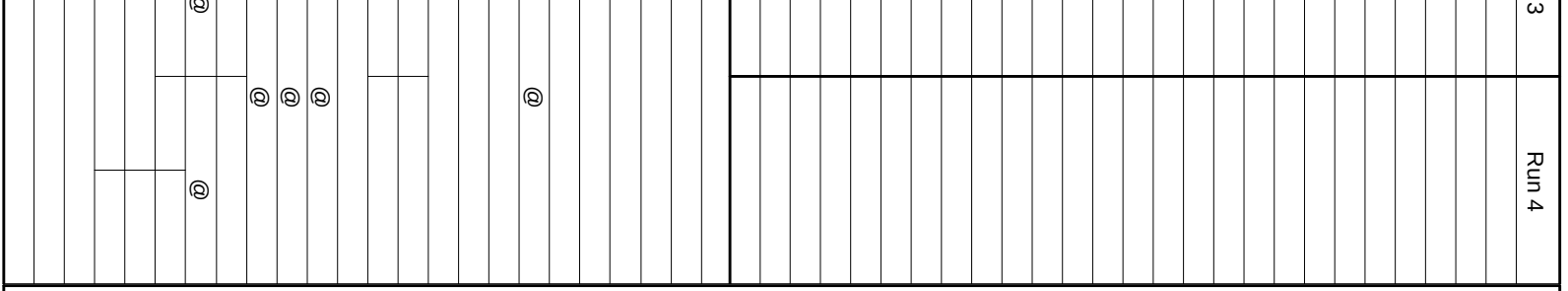
W 125* 7.1703'
N 44* 35.1694'

Elev.: K.B. 11.3 m
G.L. 0 m
D.F. 11 m

Permanent Datum: MSL — Elev.: 0 m
Log Measured From: RKB — 11.3 m above Perm. Datum
Drilling Measured From: RKB

API Serial No.	Max. Hole Devi.	Longitude	Latitude

	Run 1	Run 2	Run 3
Logging Date	20-Aug-2002		
Run Number	1		
Depth Driller	1155 m		
Schlumberger Depth	1155 m		
Bottom Log Interval	1145 m		
Top Log Interval	905 m		
Casing Driller Size @ Depth	0.000 in @ 977 m	@	@
Casing Schlumberger	976 m		
Bit Size	11.438 in		
Type Fluid In Hole	Sepiolite Salt Water Base		
MUD Density / Viscosity	1.1 g/cm3 /	/	/
MUD Fluid Loss / PH	/	/	/
MUD Source Of Sample	Mud Pit		
RM @ Measured Temperature	0.322 ohm.m @ 27 degC	@	@
RMF @ Measured Temperature	@	@	@
RMC @ Measured Temperature	@	@	@
Source RMF / RMC	/	/	/
RM @ MRT / RMF @ MRT	0.407 @ 17 / @ 17	@ / @	@ / @
Maximum Recorded Temperatures	17 degC		
Circulation Stopped / Time	20-Aug-2002 / 13:00		
Logger On Bottom / Time	20-Aug-2002 / 20:55		
Unit Number / Location	99 / Houston-ODP		
Recorded By	K. Swain		
Witnessed By	G. Guerin, S. Barr, T. Collett		



DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: WST3	OS1:
OS2: FMS/DSST	OS2:
OS3: IPL	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Depths in meters below rig floor.	
Drill pipe SLB at 976 mbrf.	
Sea Floor SLB at 905 mbrf.	
Dipole Sonic data needs further processing.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 10C0-306
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

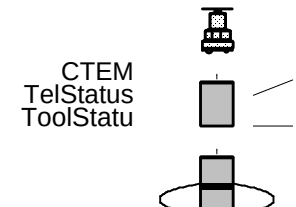
EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

GSR-U/Y 135
WITM (DTS)-A

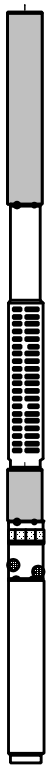
DOWNHOLE EQUIPMENT



RUN 2

DSST-B
SPAC-B 9128
ECH-SD 8127
SMDR-BD 11
SSIJ-BA 8151
SMDX-AA 66

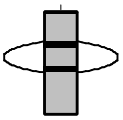
28.25



PWF — 12.71

AH-Bot
AH-Bot 1

12.71



SGT-N
SGH-K 245
SGC-TB 9585
SGD-TAA 1

Gamma Ray — 10.30

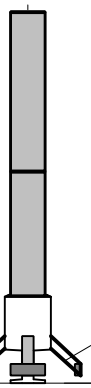
10.58

DTA-A
ECH-KE 8455
DTA-A 8261

8.90

MEST-B
MEAH-B 701
MEAC-A 833
MEPH-A 702
GPIC-A 719
MEPC-AB 806
MEDS-B 724

7.68



MEDR MEAC
MEPC MEDS-B — 0.46
HV DF
Tension GPIT — 0.00

TOOL ZERO

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

Output DLIS Files

DEFAULT	FMS_DSI_017LUP	FN:21	PRODUCER	20-Aug-2002 23:46	1157.0 M	970.0 M
REDUCE	FMS_DSI_017LUP	FN:22	PRODUCER	20-Aug-2002 23:46	1157.0 M	970.0 M

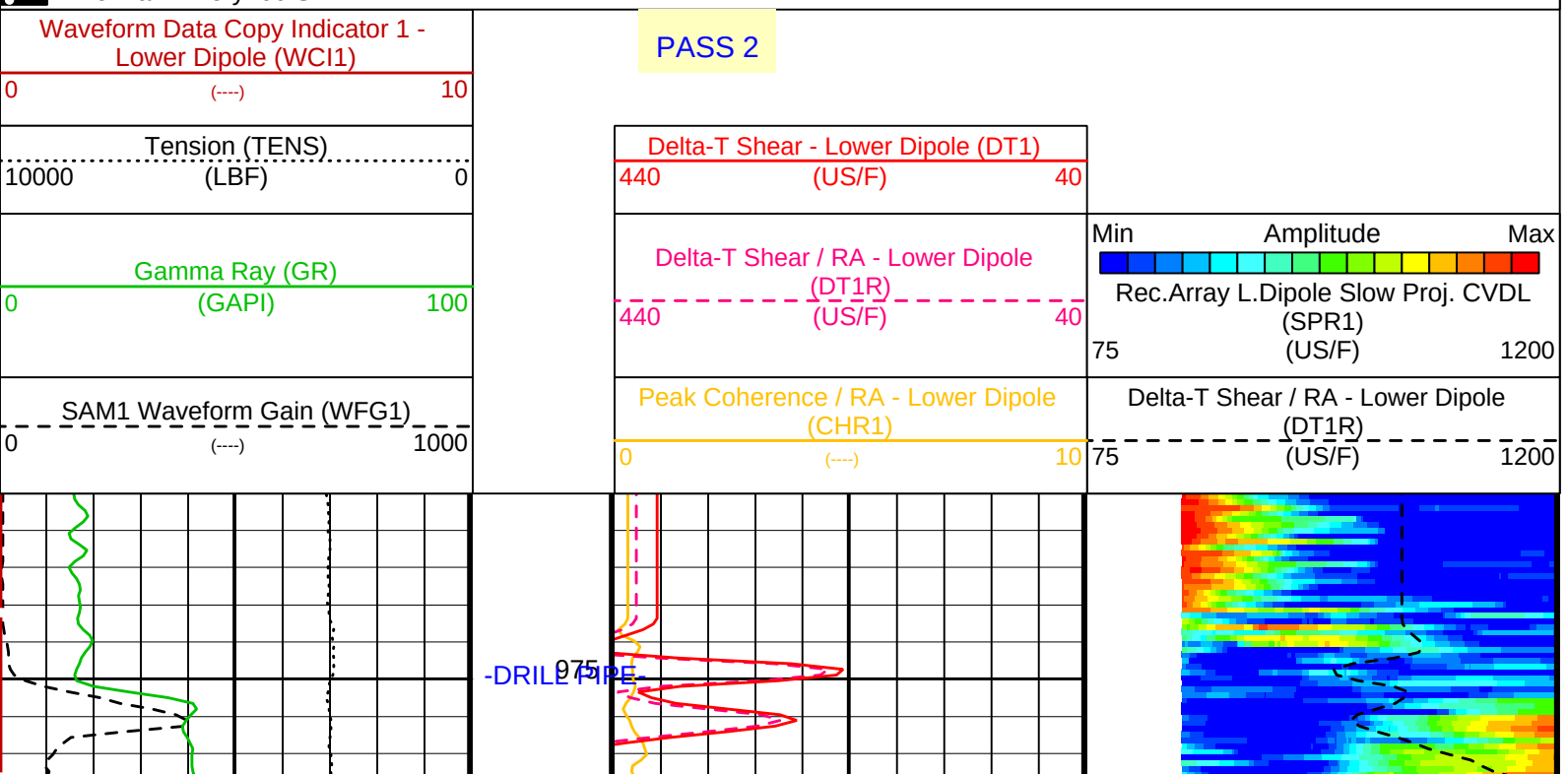
OP System Version: 10C0-306

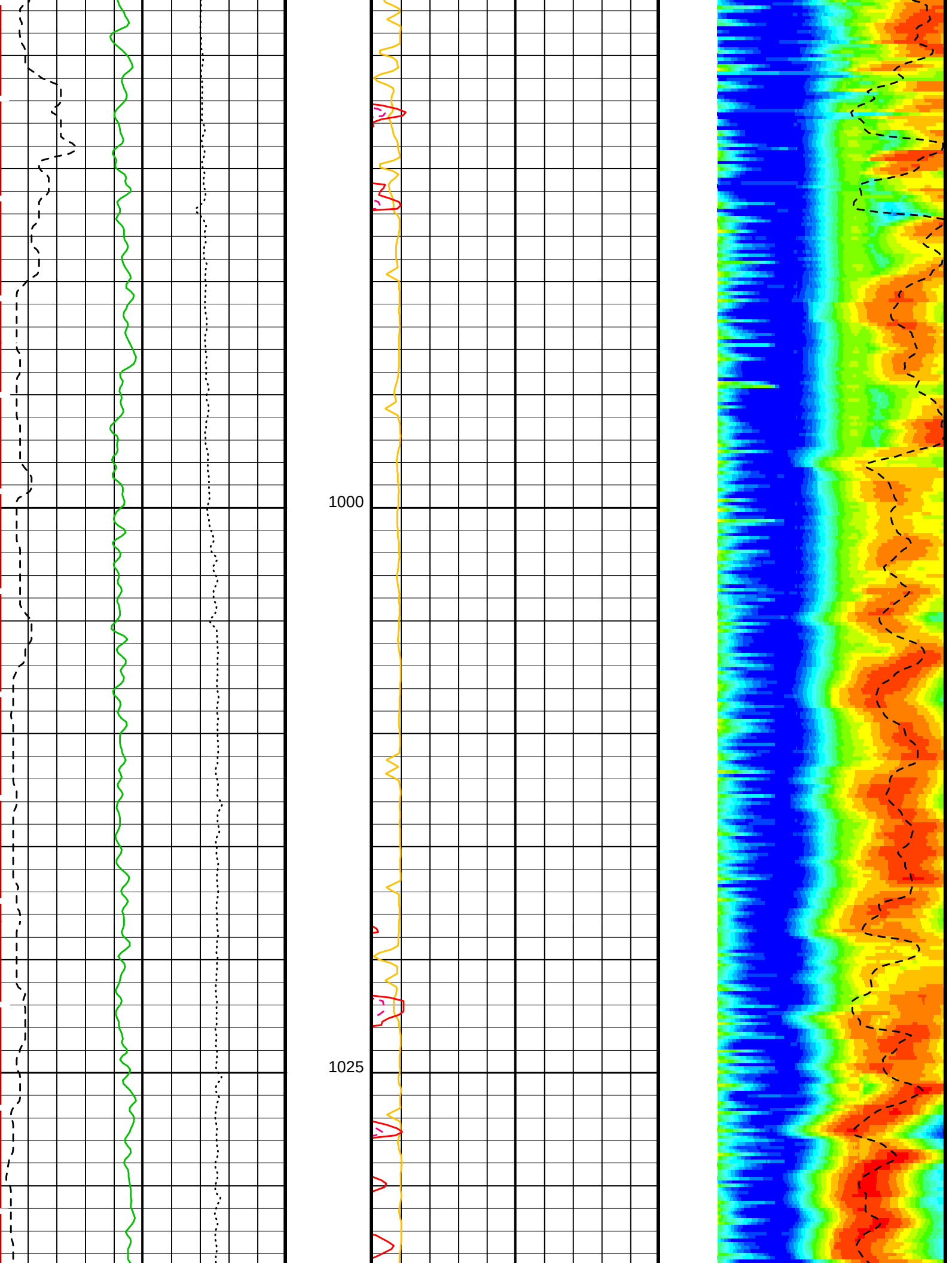
MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

PIP SUMMARY

Time Mark Every 60 S

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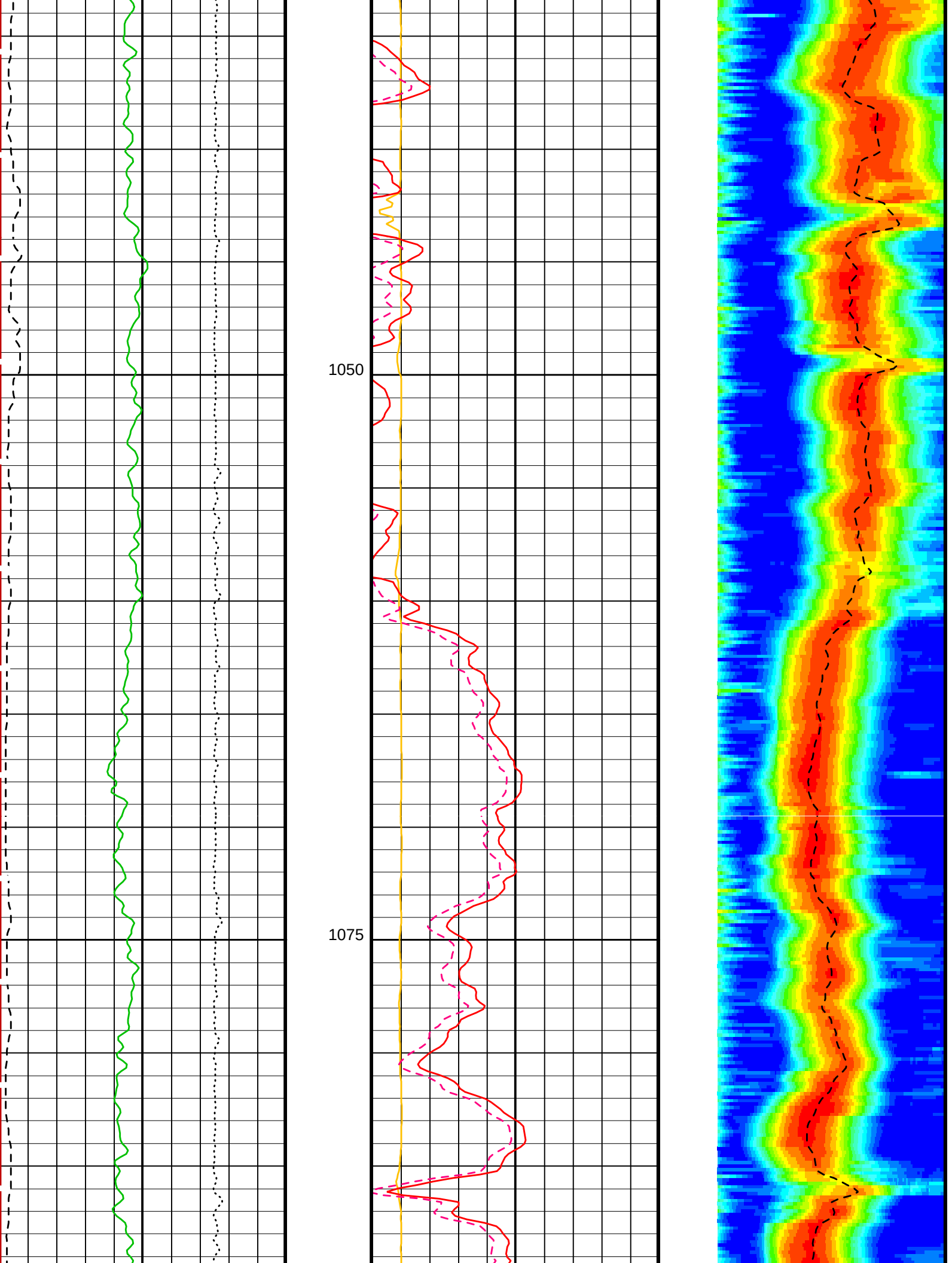
1025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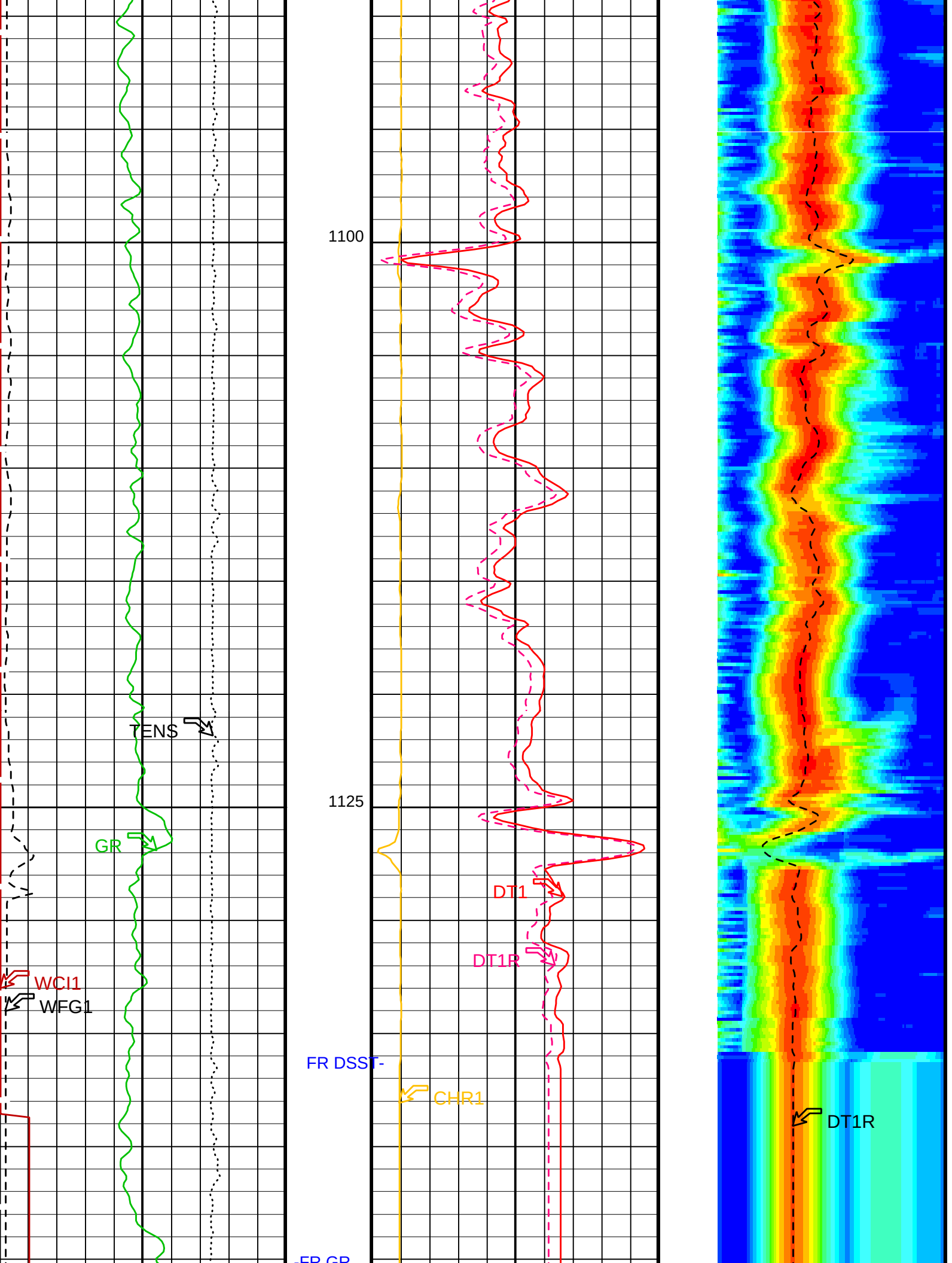
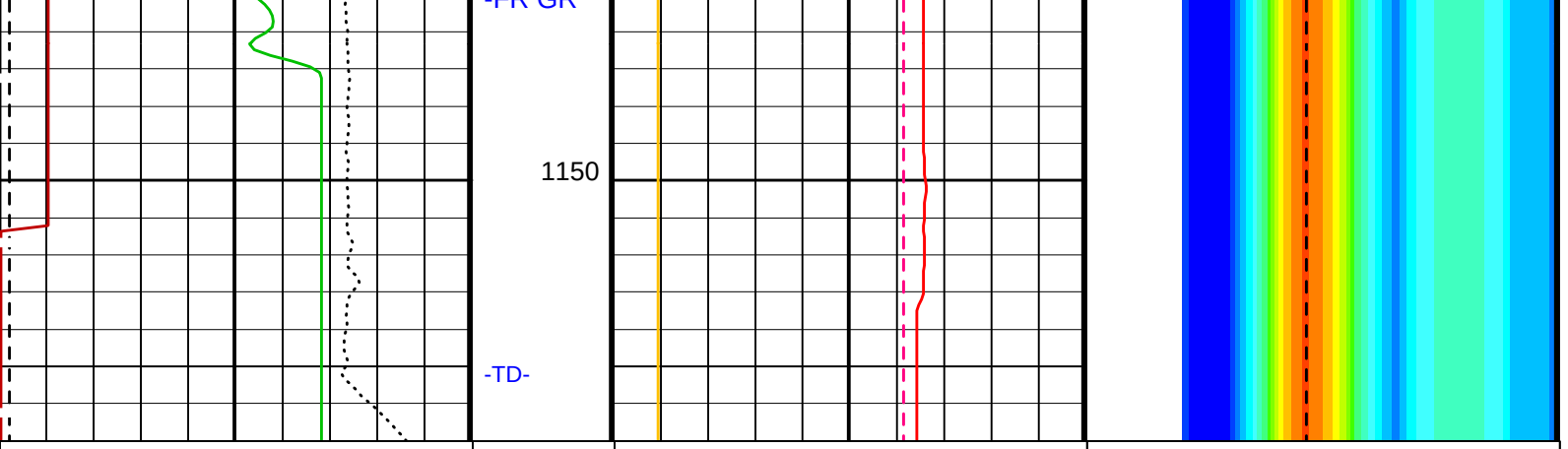
1075


1100
1125
TENS
GR
WCI1
WFG1
DT1
DT1R
FR DSST-
CHR1
DT1R



SAM1 Waveform Gain (WFG1)
0 (----) 1000

Gamma Ray (GR)
0 (GAPI) 100

Tension (TENS)
10000 (LBF) 0

Waveform Data Copy Indicator 1 - Lower Dipole (WCI1)
0 (----) 10

Peak Coherence / RA - Lower Dipole (CHR1)
0 (----) 10

Delta-T Shear / RA - Lower Dipole (DT1R)
440 (US/F) 40

Delta-T Shear - Lower Dipole (DT1)
440 (US/F) 40

Delta-T Shear / RA - Lower Dipole (DT1R)
75 (US/F) 1200

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

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	300	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	10	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
NWI1	Number Waveform Items 1	8	
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	LFD_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	B.3-1.5K	
SLL1	STC Slowness Lower Limit - Lower Dipole	300	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	1200	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	2450	US
TST1	STC Time Step - Lower Dipole	200	US
TUL1	STC Time Upper Limit - Lower Dipole	20440	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	

Format: DSST_LOWER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 20-Aug-2002 23:46

OP System Version: 10C0-306

MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

Output DLIS Files

DEFAULT	FMS_DSI_017LUP	FN:21	PRODUCER	20-Aug-2002 23:46	
REDUCE	FMS_DSI_017LUP	FN:22	PRODUCER	20-Aug-2002 23:46	

Output DLIS Files

DEFAULT	FMS_DSI_017LUP	FN:21	PRODUCER	20-Aug-2002 23:46	1157.0 M	970.0 M
REDUCE	FMS_DSI_017LUP	FN:22	PRODUCER	20-Aug-2002 23:46	1157.0 M	970.0 M

OP System Version: 10C0-306

MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

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

PASS #2

Gamma Ray (GR)
0 (GAPI) 100

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

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

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

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

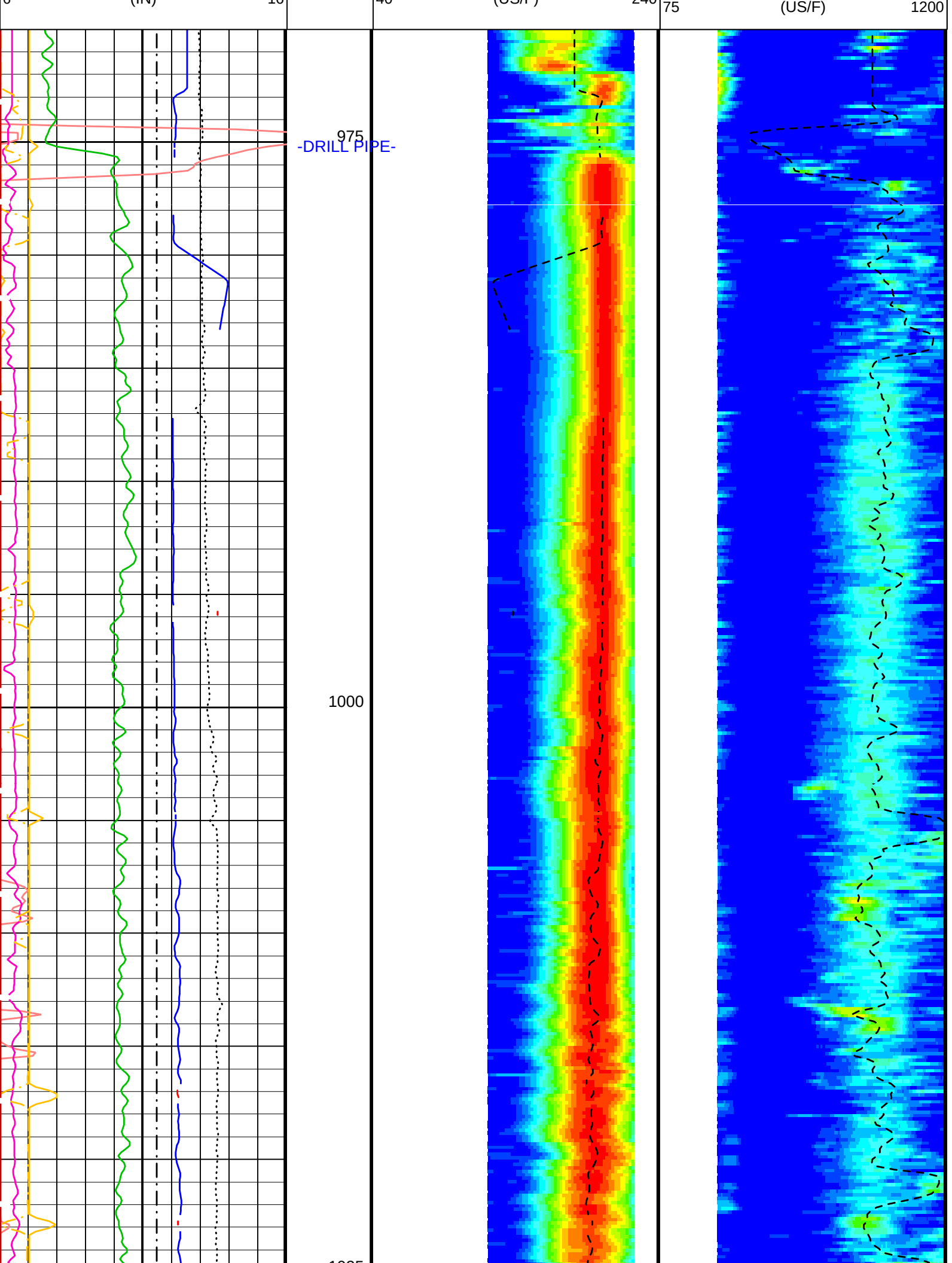
Delta-T Shear / RA - P & S (DTRS)
40 (US/F) 240

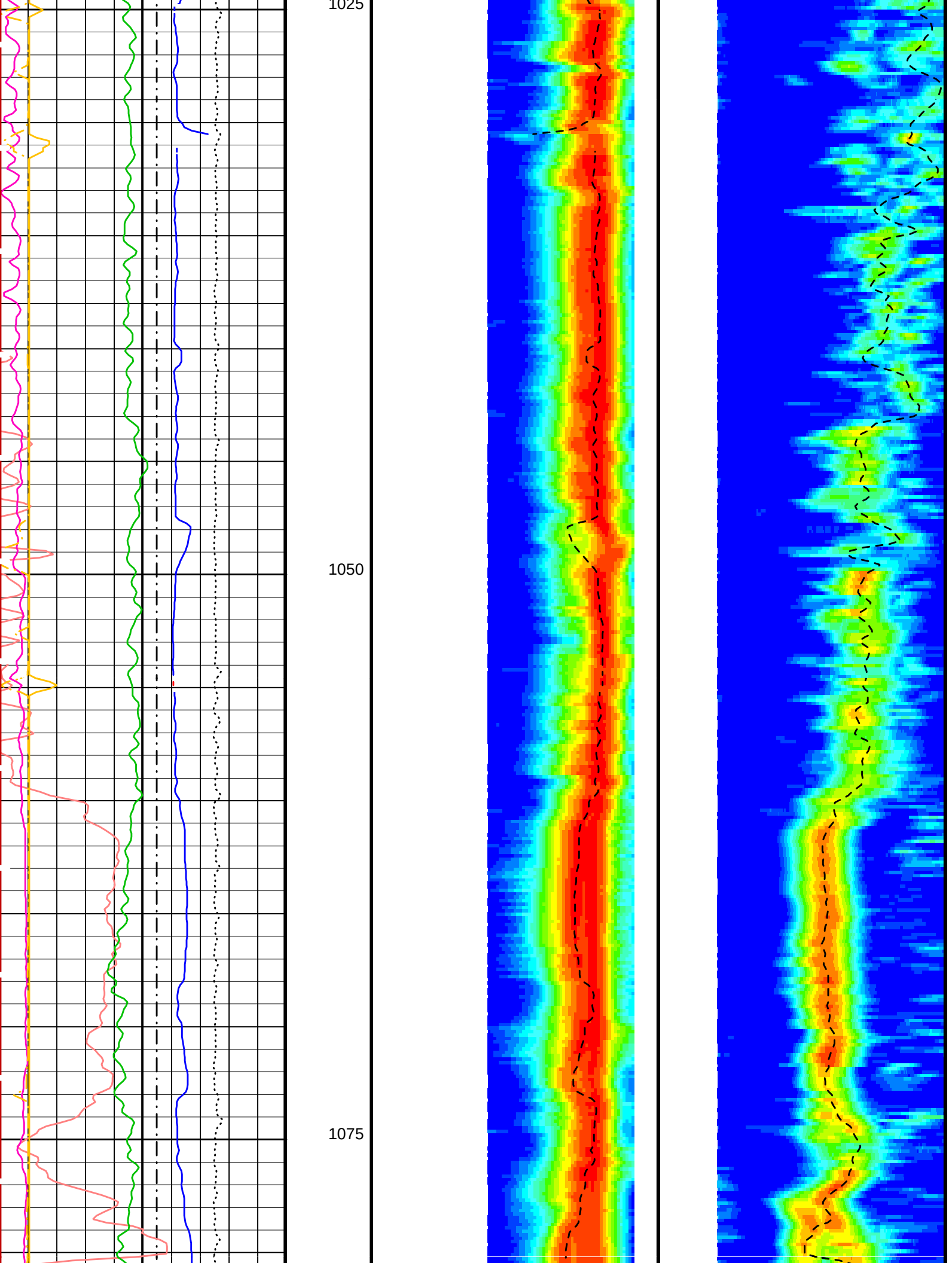
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

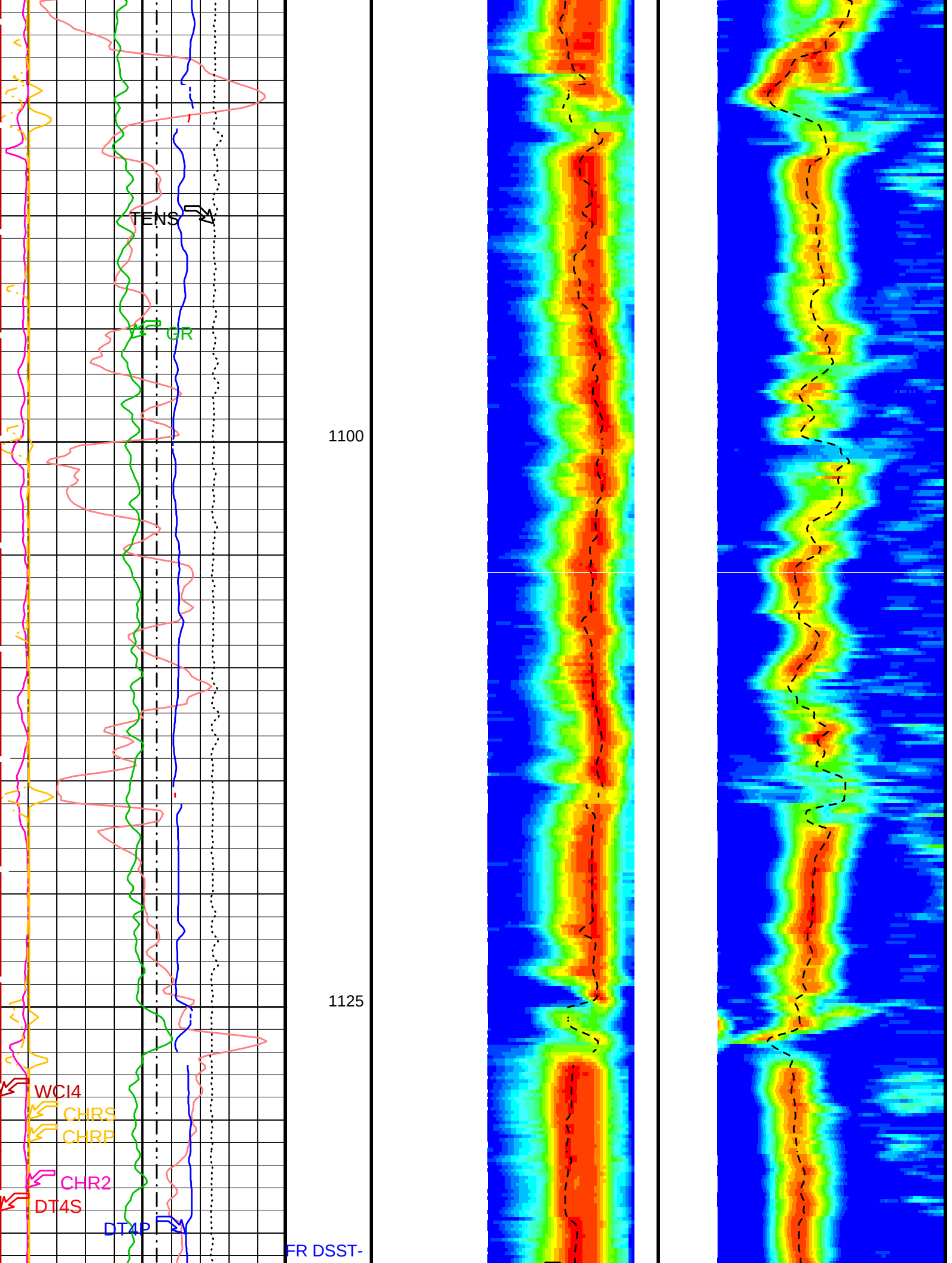
Bit Size (BS)
6 (IN) 16

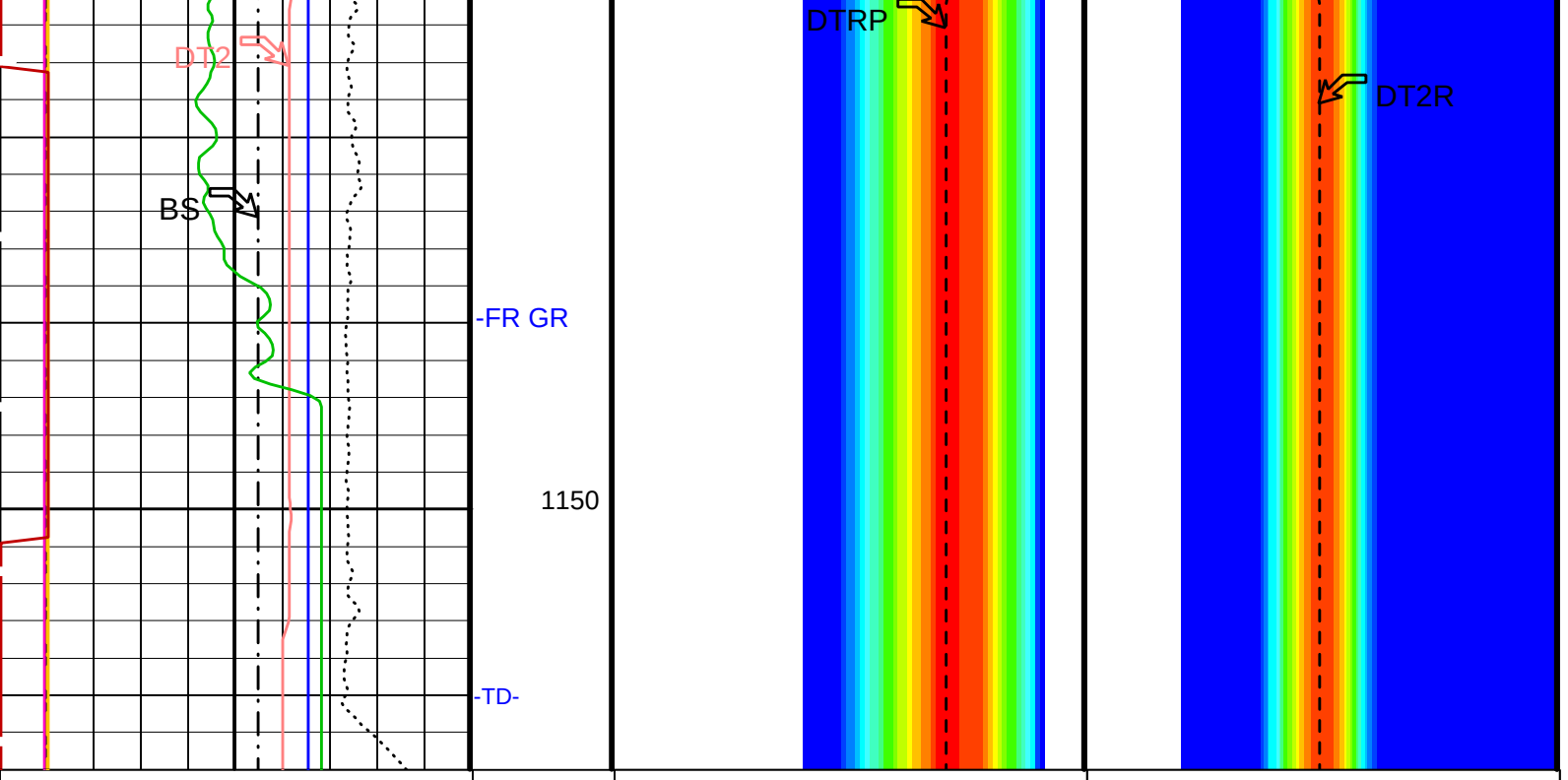
Delta-T Comp / RA - P & S (DTRP)
40 (US/F) 240

Delta-T Shear / RA - Upper Dipole (DT2R)


(IN)
40
(US/F)
240
75
(US/F)
1200
975
-DRILL PIPE-
1000


1025
1050
1075


TENS
GR
1100
1125
WCI4
CHRS
CHRP
CHR2
DT4S
DT4P
FR DSST-



Bit Size (BS)
6 (IN) 16

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

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

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

Gamma Ray (GR)
0 (GAPI) 100

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)
75 (US/F) 1200

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

PASS #2

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	SGT-N: Scintillation Gamma-Ray - N		
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	120	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	200	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	300	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	10	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	COMP_FIRST	
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	
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	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	B1-3K	
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	200	US/F
SLL2	STC Slowness Lower Limit - Upper Dipole	300	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	120	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	1200	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	2300	US
TLL4	STC Time Lower Limit - Monopole P&S	580	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	20200	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	
	System and Miscellaneous		

System and Miscellaneous

BS	Bit Size	11.438	IN

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 20-Aug-2002 23:46

OP System Version: 10C0-306

MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

Output DLIS Files

DEFAULT	FMS_DSI_017LUP	FN:21	PRODUCER	20-Aug-2002 23:46		
REDUCE	FMS_DSI_017LUP	FN:22	PRODUCER	20-Aug-2002 23:46		

Output DLIS Files

DEFAULT	FMS_DSI_016LUP	FN:19	PRODUCER	20-Aug-2002 22:55	1157.0 M	961.4 M
REDUCE	FMS_DSI_016LUP	FN:20	PRODUCER	20-Aug-2002 22:55	1157.0 M	961.4 M

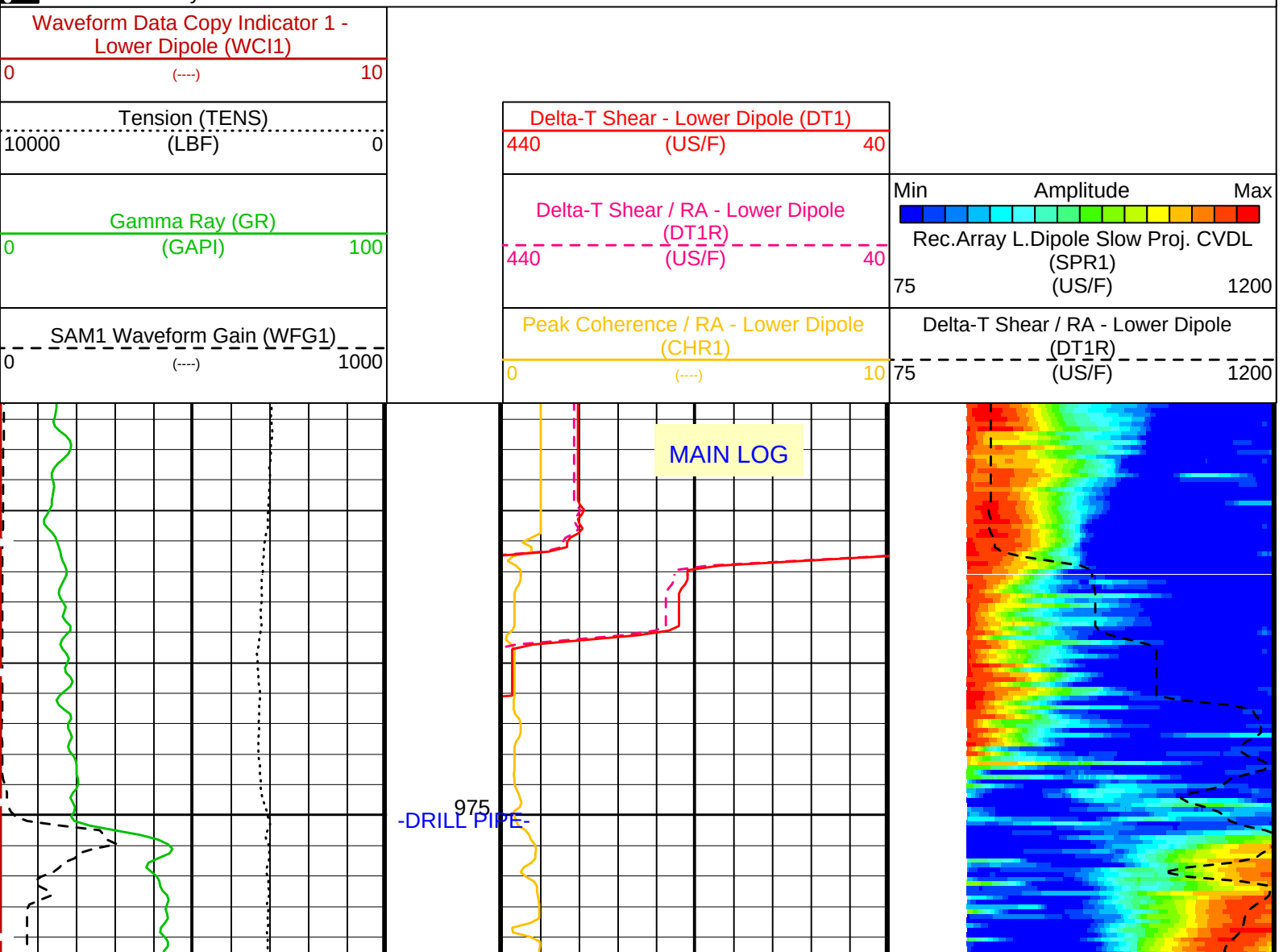
OP System Version: 10C0-306

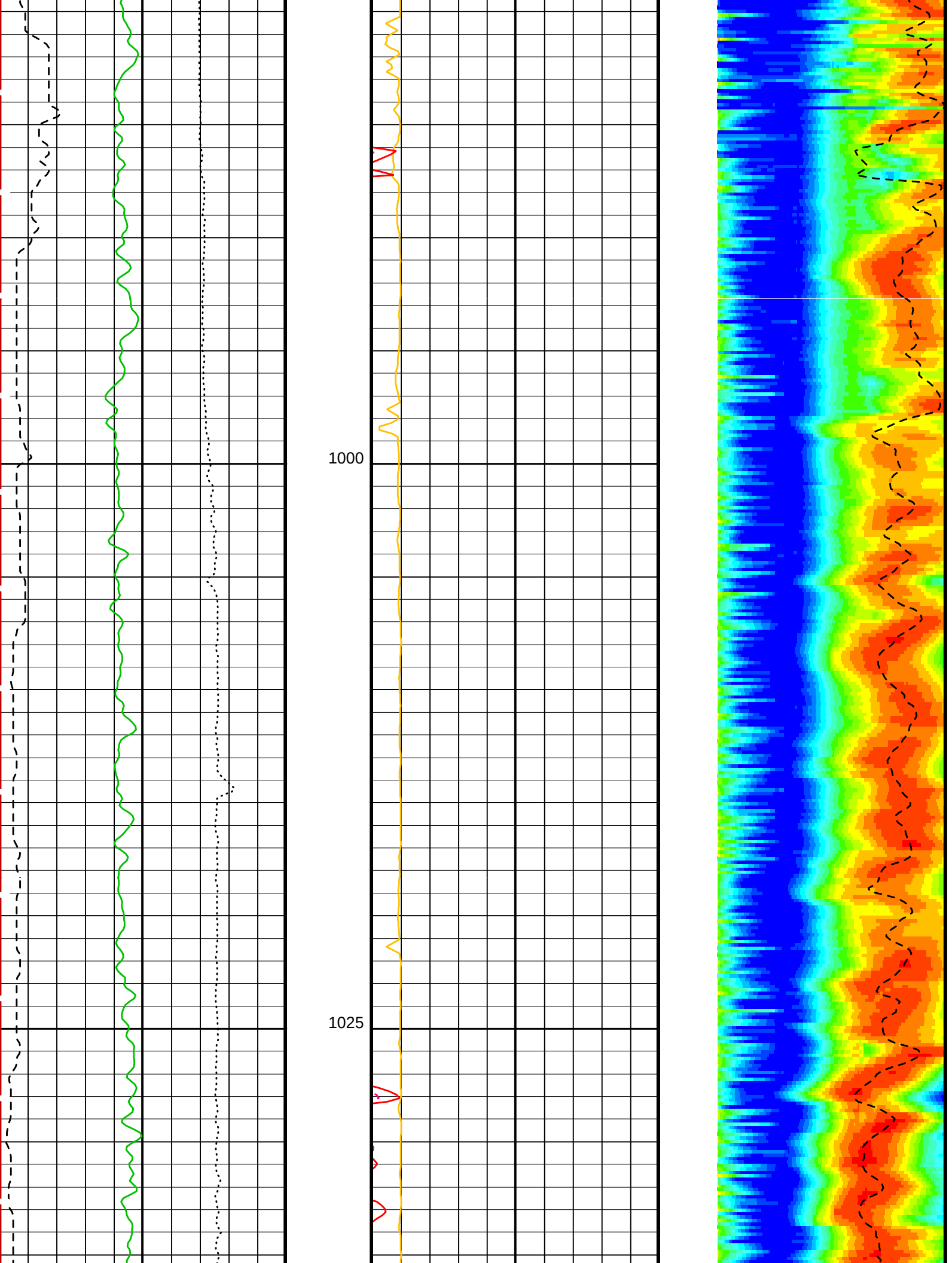
MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

PIP SUMMARY

Time Mark Every 60 S

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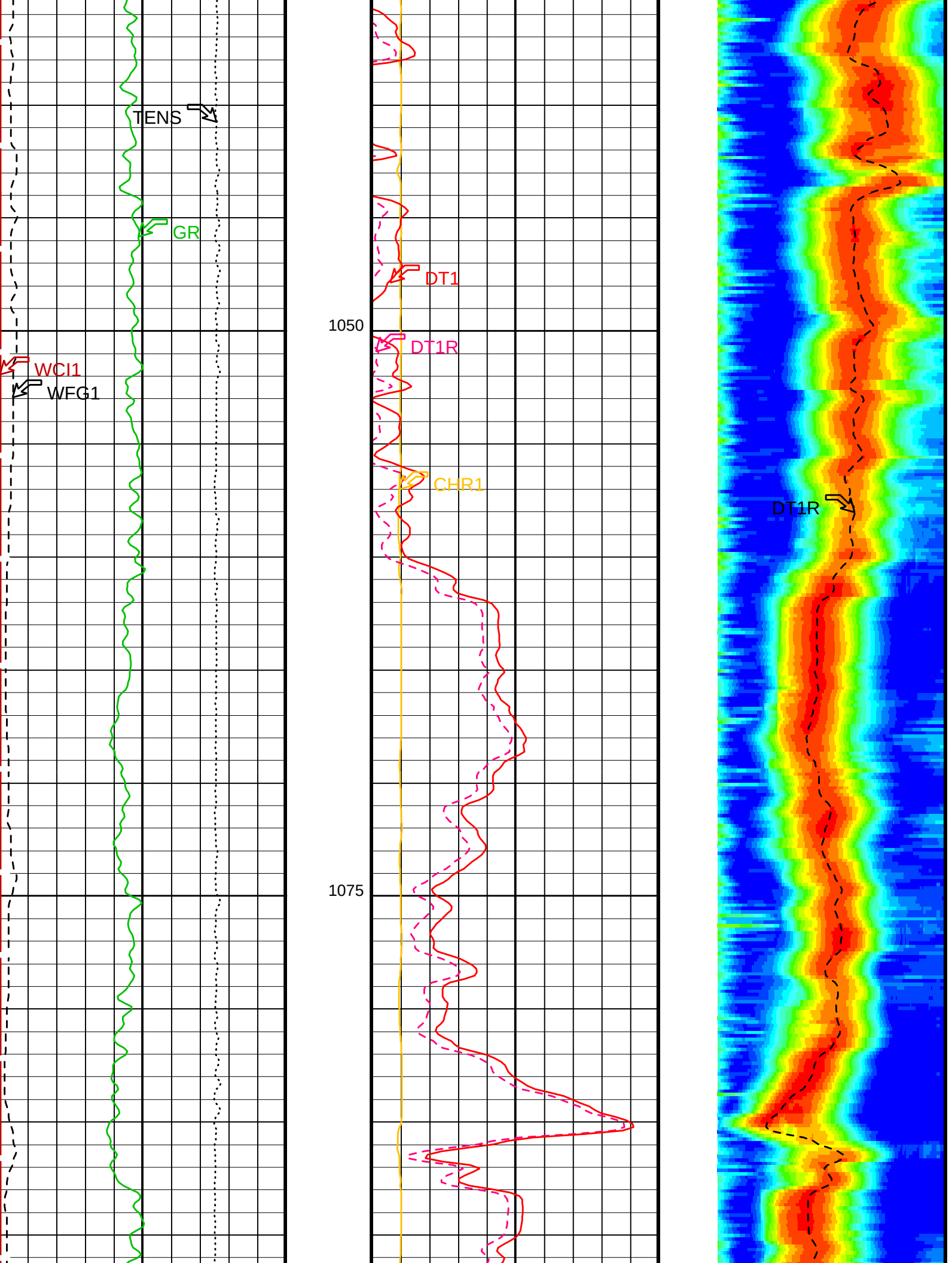
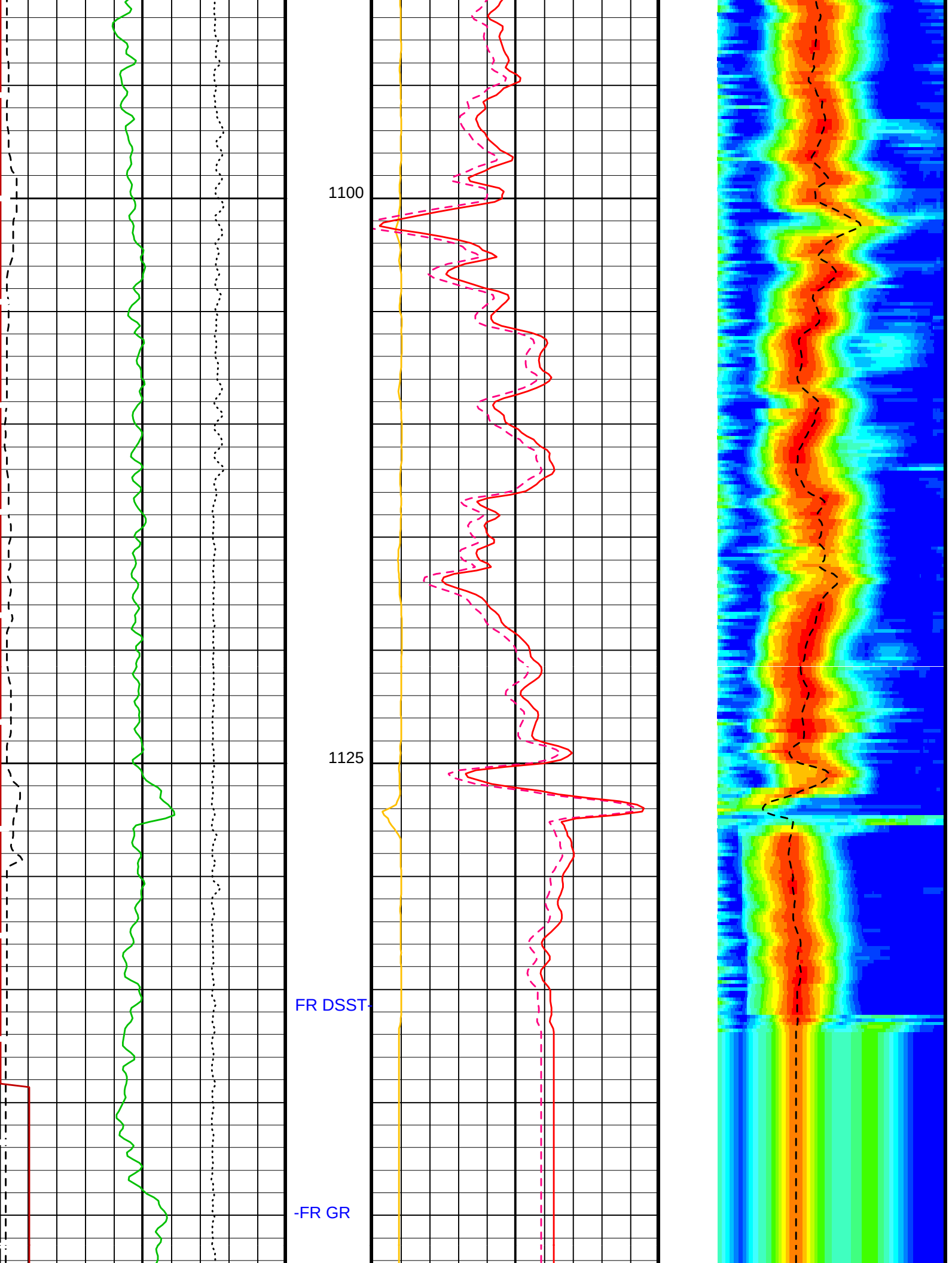
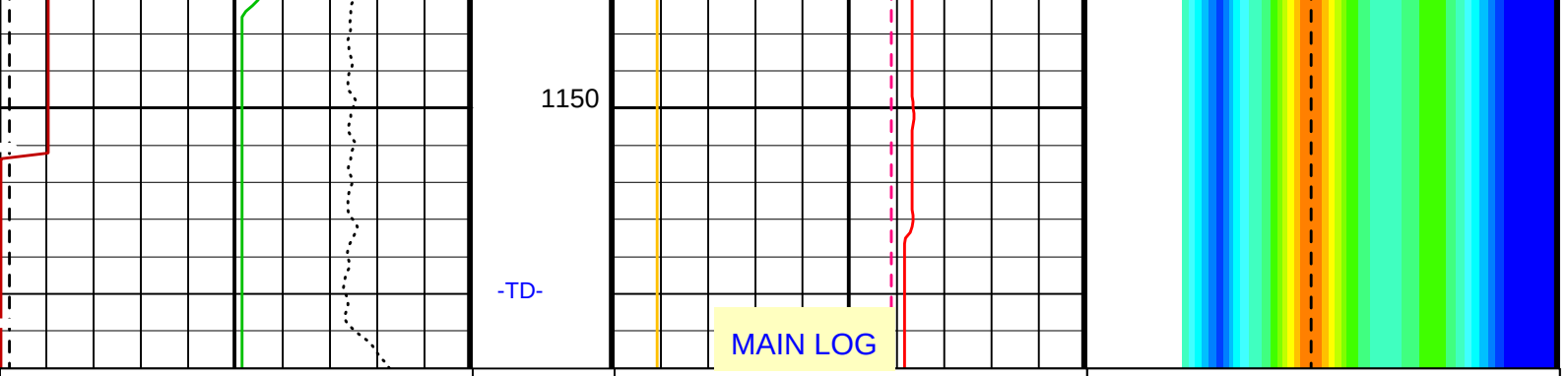
1025


TENS
GR
WCI1
WFG1
DT1
1050
DT1R
CHR1
1075
DT1R


1100
1125
FR DSST-
-FR GR



SAM1 Waveform Gain (WFG1)
0 (----) 1000

Gamma Ray (GR)
0 (GAPI) 100

Tension (TENS)
10000 (LBF) 0

Waveform Data Copy Indicator 1 - Lower Dipole (WCI1)
0 (----) 10

Peak Coherence / RA - Lower Dipole (CHR1)
0 (----) 10

Delta-T Shear / RA - Lower Dipole (DT1R)
440 (US/F) 40

Delta-T Shear - Lower Dipole (DT1)
440 (US/F) 40

Delta-T Shear / RA - Lower Dipole (DT1R)
75 (US/F) 1200

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

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	300	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	10	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
NWI1	Number Waveform Items 1	8	
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	LFD_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	B.3-1.5K	
SLL1	STC Slowness Lower Limit - Lower Dipole	300	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	1200	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	2450	US
TST1	STC Time Step - Lower Dipole	200	US
TUL1	STC Time Upper Limit - Lower Dipole	20440	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

Format: DSST_LOWER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 20-Aug-2002 22:55

OP System Version: 10C0-306

MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

Output DLIS Files

DEFAULT	FMS_DSI_016LUP	FN:19	PRODUCER	20-Aug-2002 22:55		
REDUCE	FMS_DSI_016LUP	FN:20	PRODUCER	20-Aug-2002 22:55		

Output DLIS Files

DEFAULT	FMS_DSI_016LUP	FN:19	PRODUCER	20-Aug-2002 22:55	1157.0 M	961.4 M
REDUCE	FMS_DSI_016LUP	FN:20	PRODUCER	20-Aug-2002 22:55	1157.0 M	961.4 M

OP System Version: 10C0-306

MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

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

Gamma Ray (GR)
0 (GAPI) 100

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

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

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

Bit Size (BS)
6 (IN) 16

PASS #1

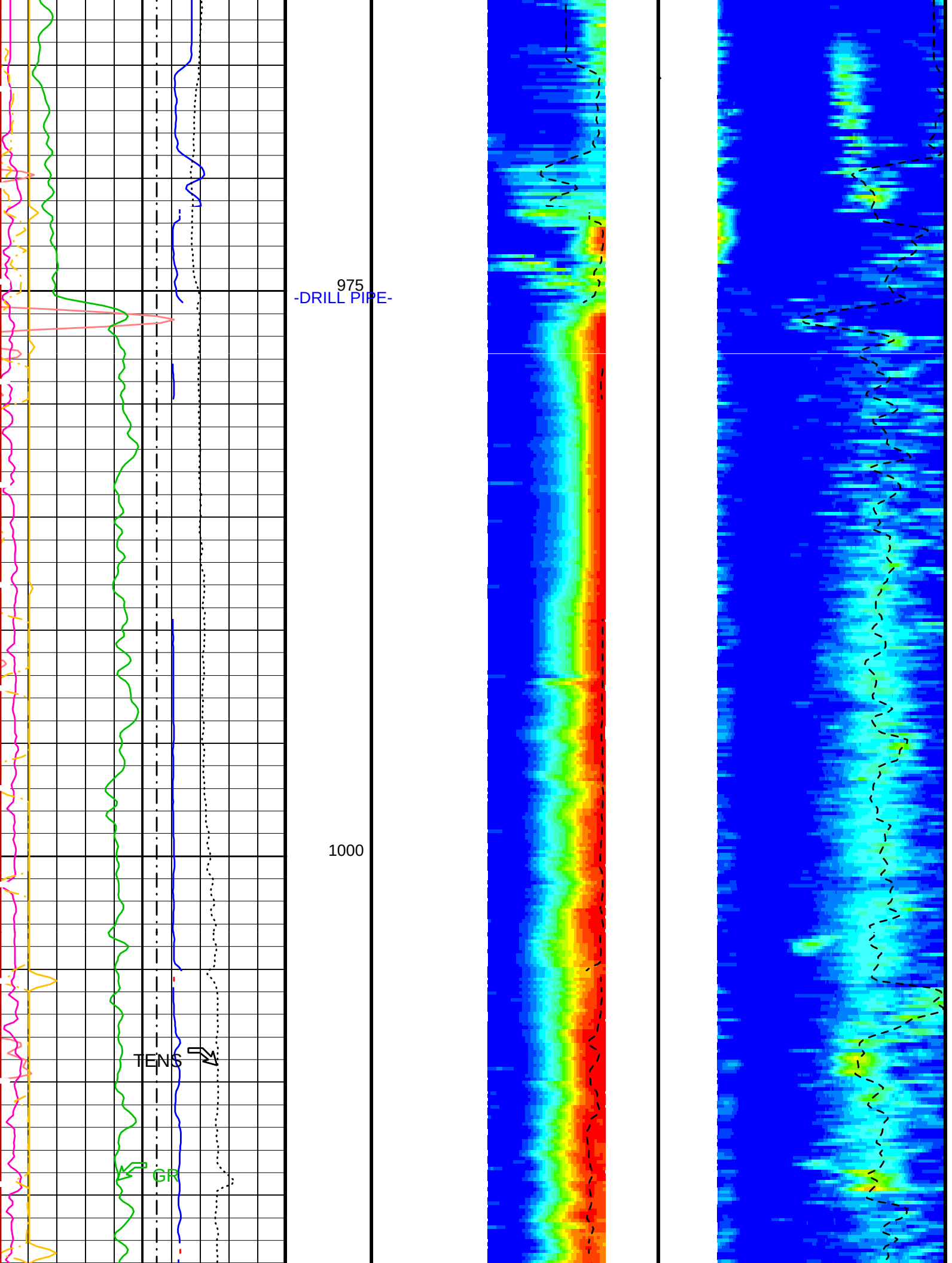
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

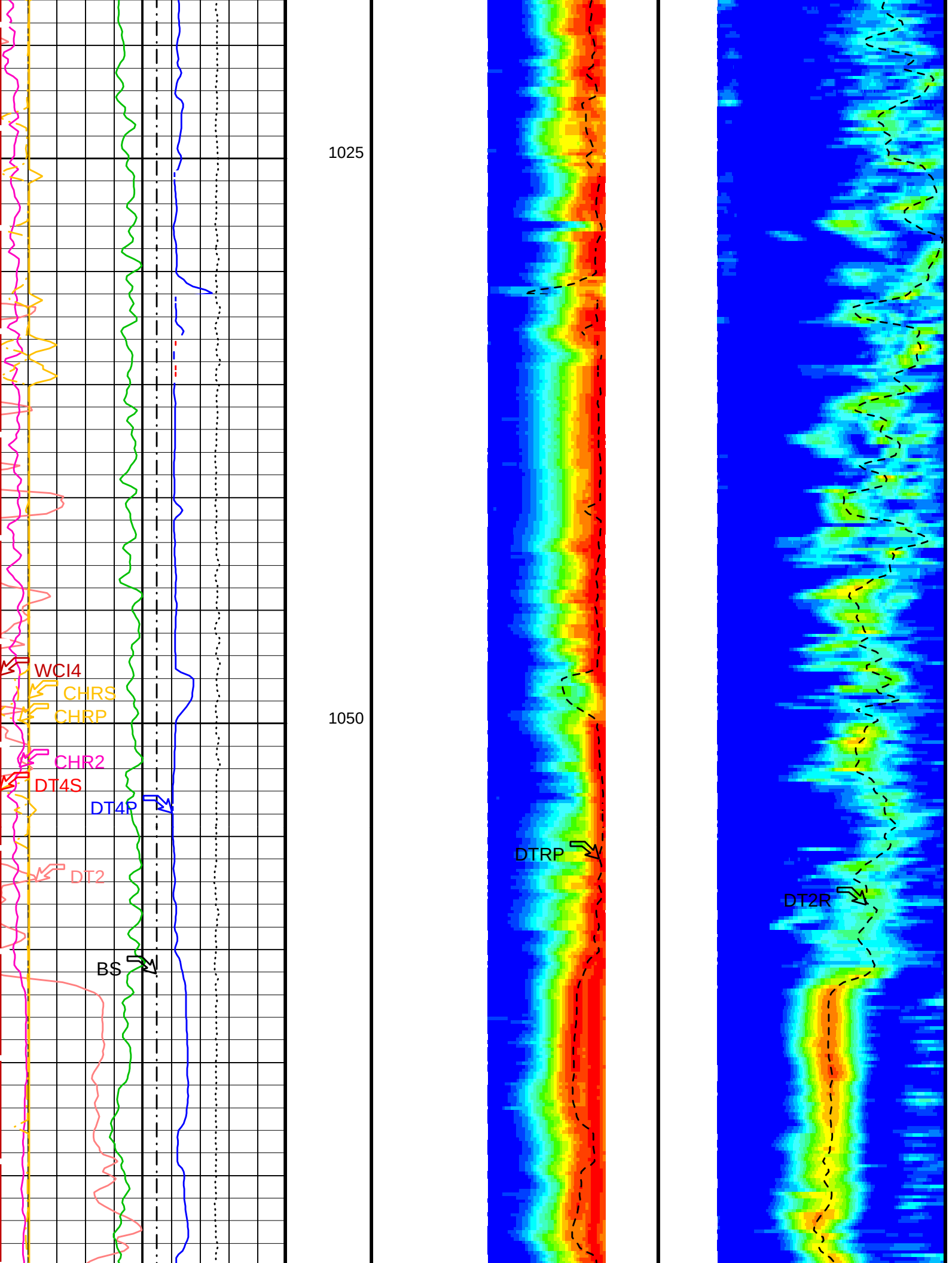
Delta-T Shear / RA - P & S (DTRS)
40 (US/F) 240

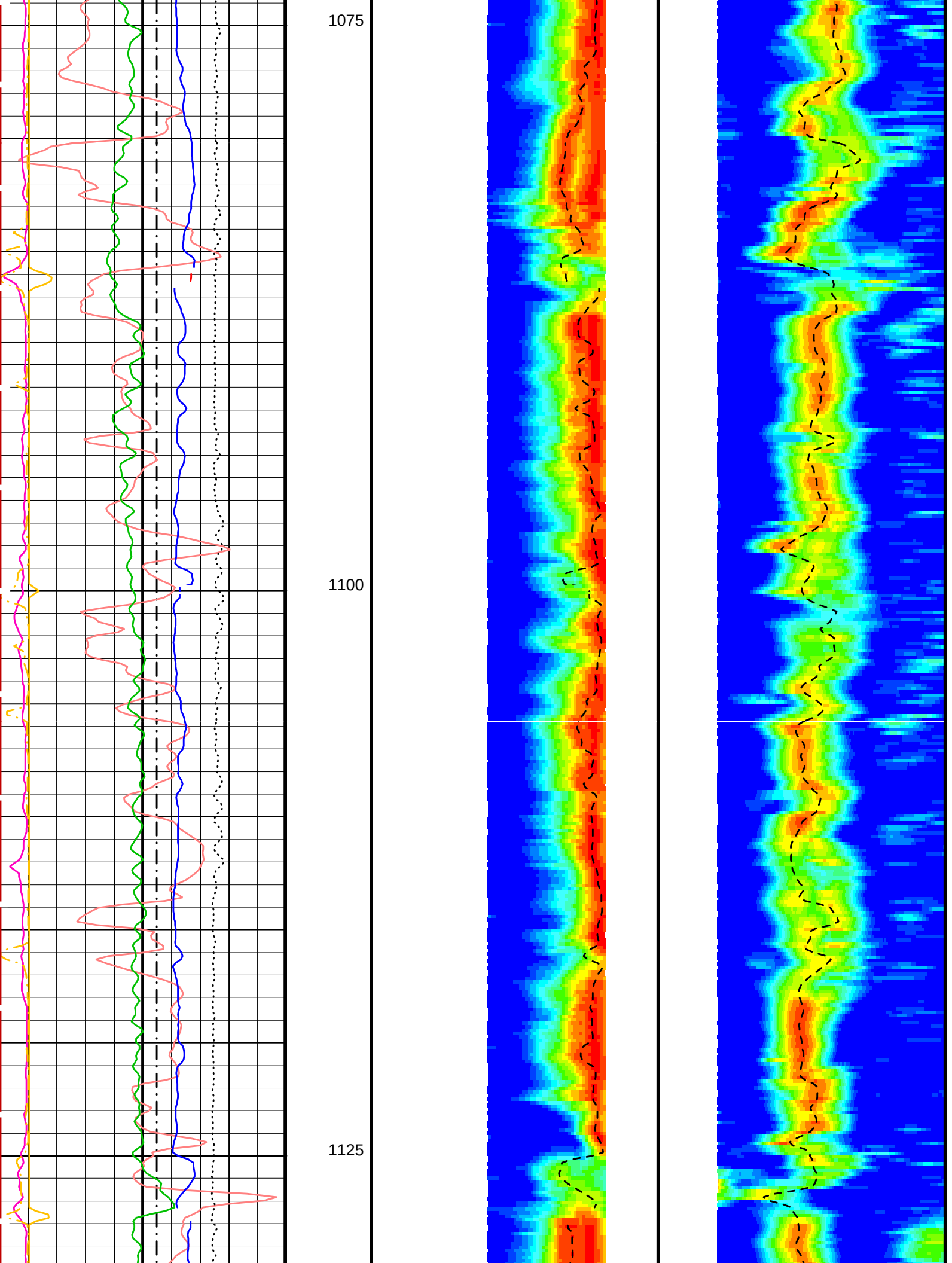
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

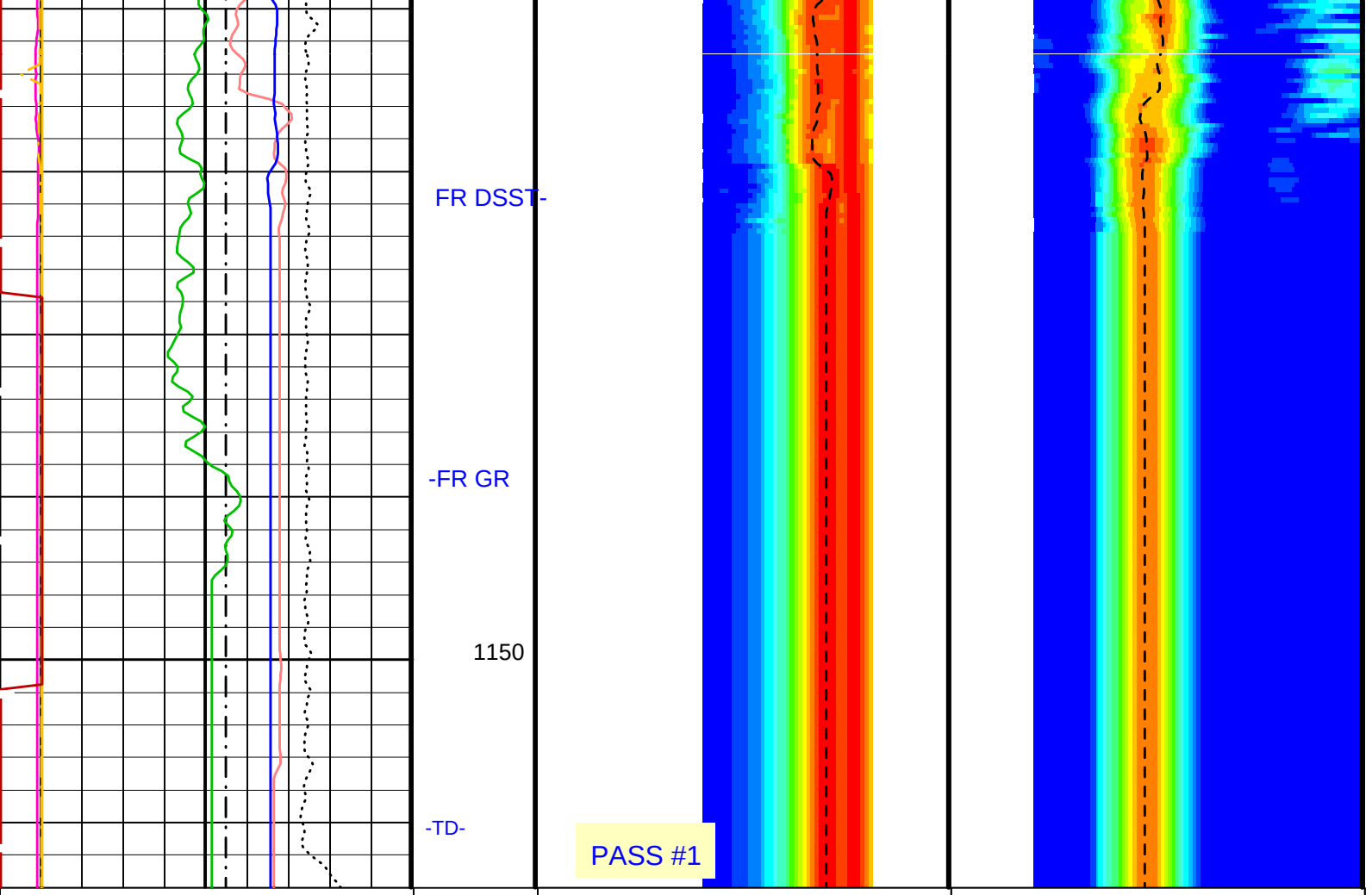
Delta-T Comp / RA - P & S (DTRP)
40 (US/F) 240

Delta-T Shear / RA - Upper Dipole (DT2R)
75 (US/F) 1200


975
-DRILL PIPE-
1000
TENS
GR


1025
1050
WCI4
CHRS
CHRP
CHR2
DT4S
DT4P
DT2
BS
DTRP
DT2R


1075
1100
1125



Bit Size (BS)
6 (IN) 16

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

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

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

Gamma Ray (GR)
0 (GAPI) 100

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 -

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)
75 (US/F) 1200

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	SGT-N: Scintillation Gamma-Ray - N		
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	120	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	200	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	300	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	10	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	COMP_FIRST	
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	
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	ODD	
SAM4	DSST Sonic Acquisition Mode 4 - High Frequency Monopole Mode for P&S	MFD_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	B1-3K	
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	200	US/F
SLL2	STC Slowness Lower Limit - Upper Dipole	300	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	120	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	1200	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	200	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	2300	US
TLL4	STC Time Lower Limit - Monopole P&S	580	US
TST2	STC Time Step - Upper Dipole	200	US
TST4	STC Time Step - Monopole P&S	50	US

TST4	STC Time Step - Monopole P&S	50	US
TUL2	STC Time Upper Limit - Upper Dipole	20200	US
TUL4	STC Time Upper Limit - Monopole P&S	3300	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	
	System and Miscellaneous		
BS	Bit Size	11.438	IN

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 20-Aug-2002 22:55

OP System Version: 10C0-306

MCM

MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

Output DLIS Files

DEFAULT	FMS_DSI_016LUP	FN:19	PRODUCER	20-Aug-2002 22:55
REDUCE	FMS_DSI_016LUP	FN:20	PRODUCER	20-Aug-2002 22:55

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) Wellsite Calibration - Caliper Calibration							
Before: Calibration out of date 27-Jul-2002 14:28							
Caliper 1 Zero Measurement	12.00	N/A	12.52	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	11.83	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.25	N/A	15.63	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.25	N/A	15.10	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-Aug-2002 0:17							
TEMPERATURE REFERENCE :	N/A	N/A	20	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	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-Aug-2002 0:17							
TEMPERATURE REFERENCE :	N/A	N/A	25	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	91	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	5	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	98	N/A	N/A	N/A	
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration							
Before: Calibration out of date 27-Jul-2002 14:08							
Gamma Ray (Jig - Bkg)	164.1	N/A	164.1	N/A	N/A	14.92	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Micro Electrical Scanner - B (Slim) / Equipment Identification

Primary Equipment:		
MEST Sonde - B	MEDS - B	724
MEST Preamplifier Cartridge - AB	MEPC - AB	806
GPIT Cartridge - A	GPIC - A	719
MEST Acquisition Cartridge - A	MEAC - A	833
Auxiliary Equipment:		
MEST-B Preamplifier Cartridge Housing	MEPH - A	702
MEST Acquisition Cartridge Housing (Slim	MEAH - B	701

Scintillation Gamma-Ray - N / Equipment Identification

Primary Equipment:		
Scintillation Gamma Cartridge	SGC - TB	9585
Scintillation Gamma Detector	SGD - TAA	1
Auxiliary Equipment:		
Scintillation Gamma Housing	SGH - K	245
Gamma Source Radioactive	GSR - U/Y	135

Scintillation Gamma-Ray - N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value
Before		4.854
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)	

Phase	Gamma Ray (Jig - Bkg) GAPI	Value
Before		164.1
	149.2 (Minimum) 164.1 (Nominal) 179.0 (Maximum)	

Phase	Gamma Ray (Calibrated) GAPI	Value
Before		165.0
	150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	

Before: Calibration out of date 27-Jul-2002 14:08

Company: Lamont Doherty

Schlumberger

Well: ODP Leg 204, Site 1244E
Field: Hydrate Ridge
Ocean: Pacific
State: Oregon

Dipole Shear Sonic
P&S Compressional Monopole
Gamma Ray