Schlumberger

Company: Lamont Doherty

Well: ODP Leg 204, Site 1251H
Field: Hydrate Ridge
Ocean: Pacific State: Oregon

Ocean: Pacific
Field: Hydrate Ridge
Location: W125* 4.4502'
Well: ODP Leg 204, Site 1251H
Company: Lamont Doherty

Dipole Shear Sonic
P&S Compressional Monopole
Gamma Ray

LOCATION

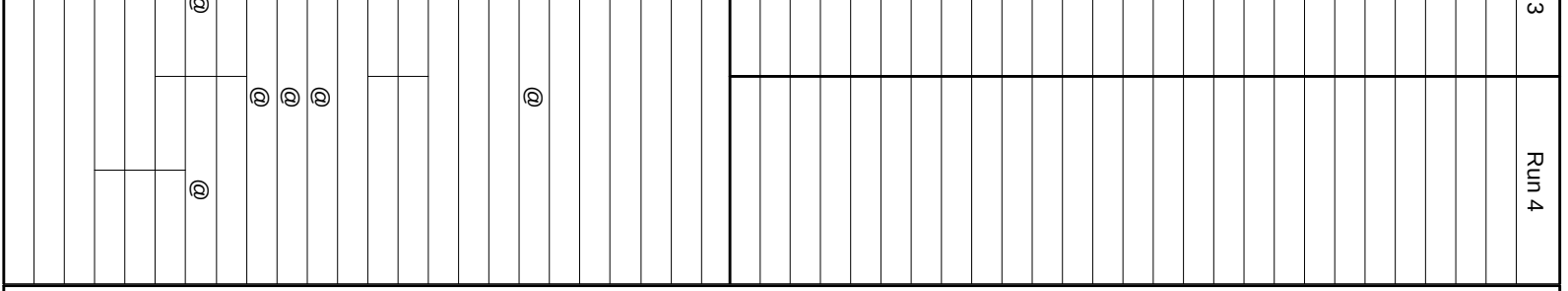
W125* 4.4502'
N 44* 34.2109'

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	17-Aug-2002		
Run Number	1		
Depth Driller	1665 m		
Schlumberger Depth	1455 m		
Bottom Log Interval	1445 m		
Top Log Interval	1219 m		
Casing Driller Size @ Depth	0.000 in @ 1298 m	@	@
Casing Schlumberger	1298 m		
Bit Size	9.875 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	17-Aug-2002 / 13:00		
Logger On Bottom / Time	18-Aug-2002 / 0:55		
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: FMS/DSST	OS1:
OS2: IPL/DITE	OS2:
OS3: WST	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Depths in meters below rig floor. mbrf.	
Drill pipe SLB at1298 MBRF.	
Sea floor SLB at 1219 MBRF.	
Tool bridged at 1455 mbrf and logged up from there.	
Dipole Sonic Data presented only for initial LQC, further processing at	
Lamont is required.	

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

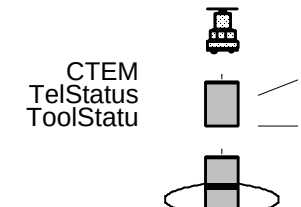
EQUIPMENT DESCRIPTION

RUN 1

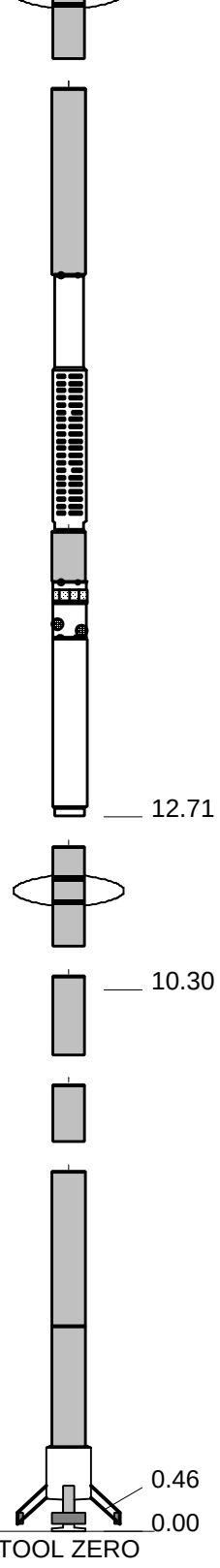
SURFACE EQUIPMENT

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

DOWNHOLE EQUIPMENT



RUN 2



DSST-B 28.25
SPAC-B 9128
ECH-SD 8127
SMDR-BD 11
SSIJ-BA 8151
SMDX-AA 66

AH-Bot 12.71
AH-Bot 1

SGT-N 10.58
SGH-K 245
SGC-TB 9585
SGD-TAA 1

DTA-A 8.90
ECH-KE 8455
DTA-A 8261

MEST-B 7.68
MEAH-B 701
MEAC-A 833
MEPH-A 702
GPIC-A 719
MEPC-AB 806
MEDS-B 724

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

Output DLIS Files

DEFAULT	FMS_DSI_022LUP	FN:28	PRODUCER	18-Aug-2002 01:46	1429.5 M	1290.9 M
REDUCE	FMS_DSI_022LUP	FN:29	PRODUCER	18-Aug-2002 01:46	1429.5 M	1290.9 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

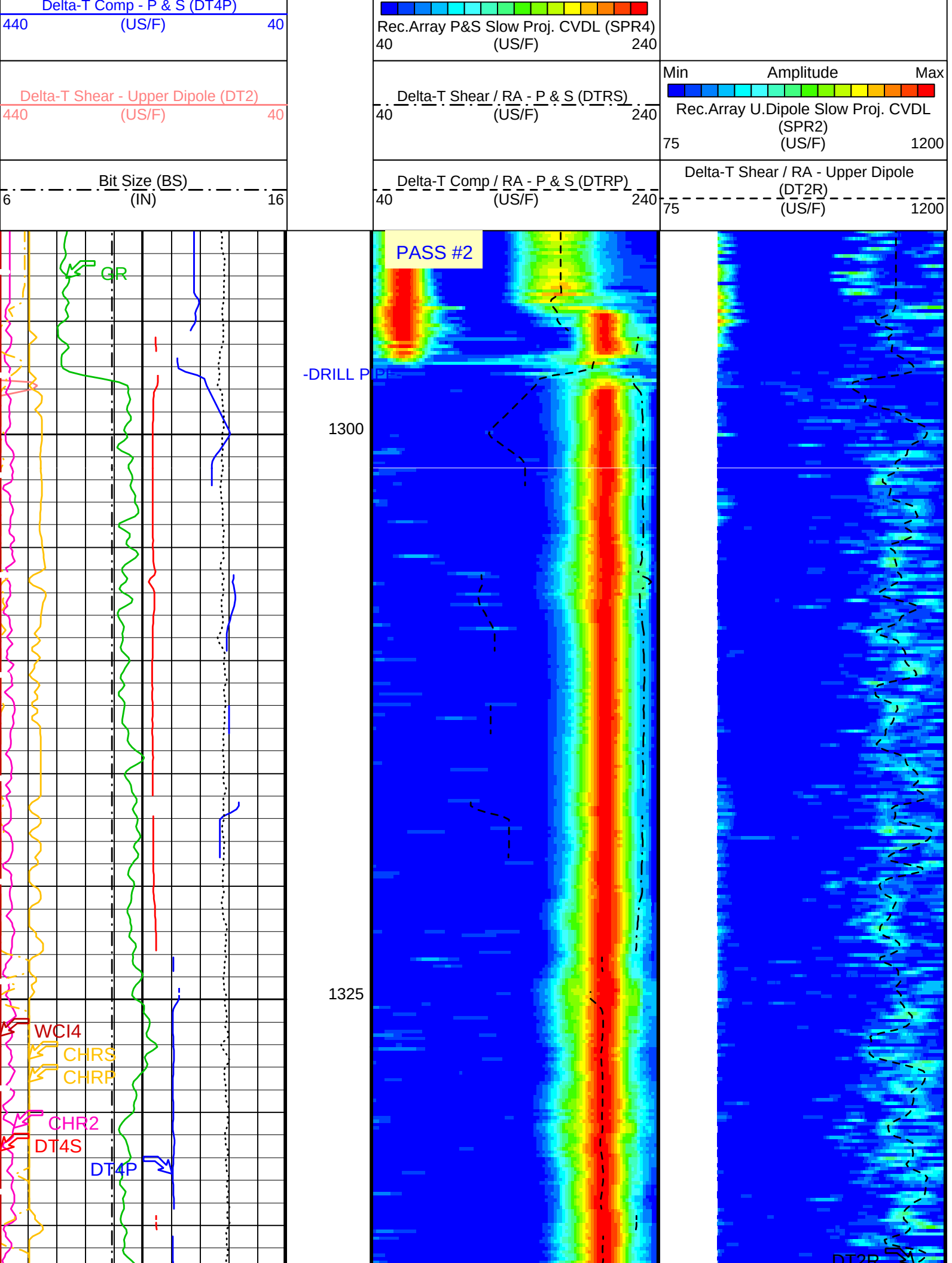
Gamma Ray (GR)

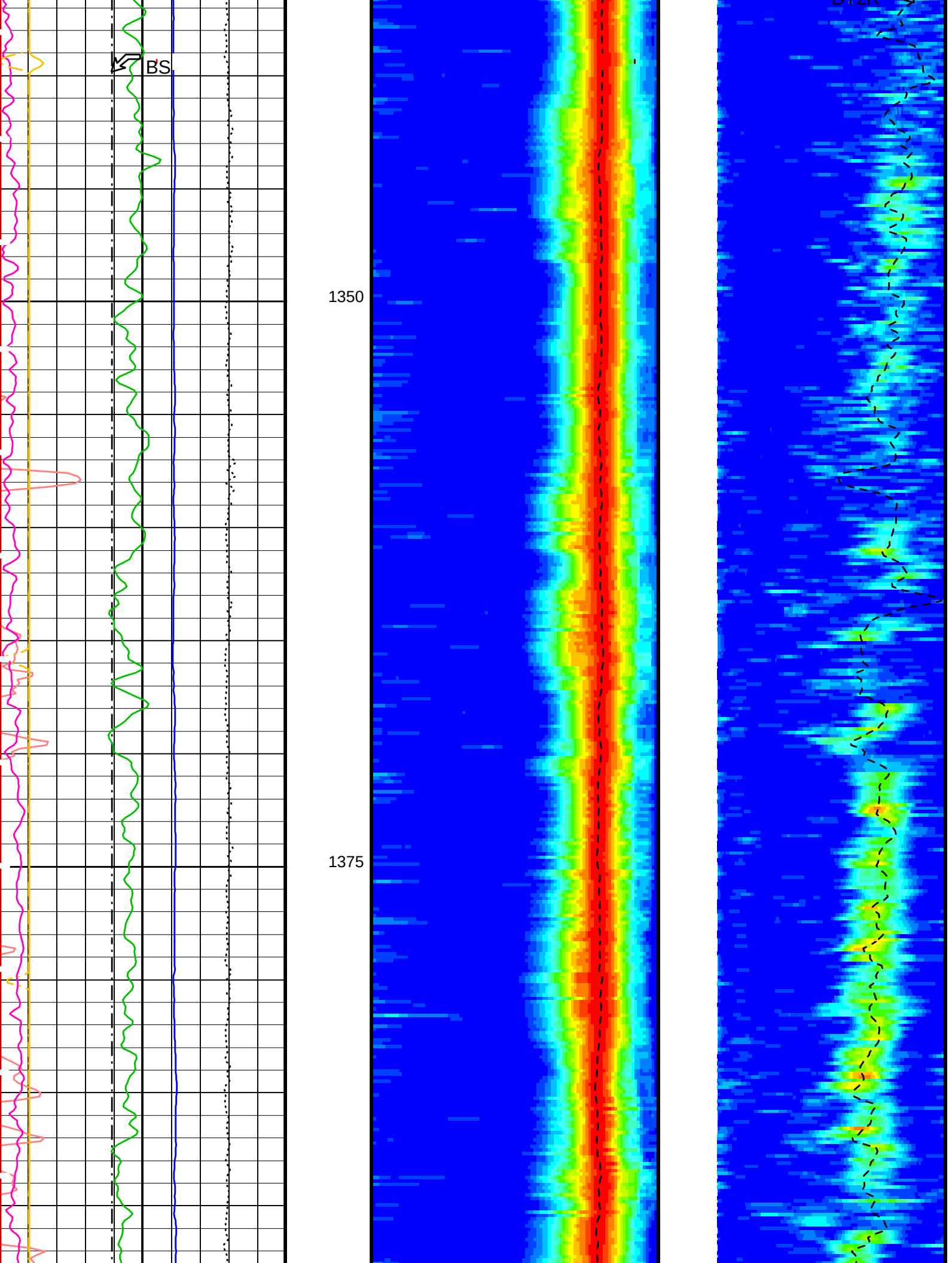
0 (GAPI) 100

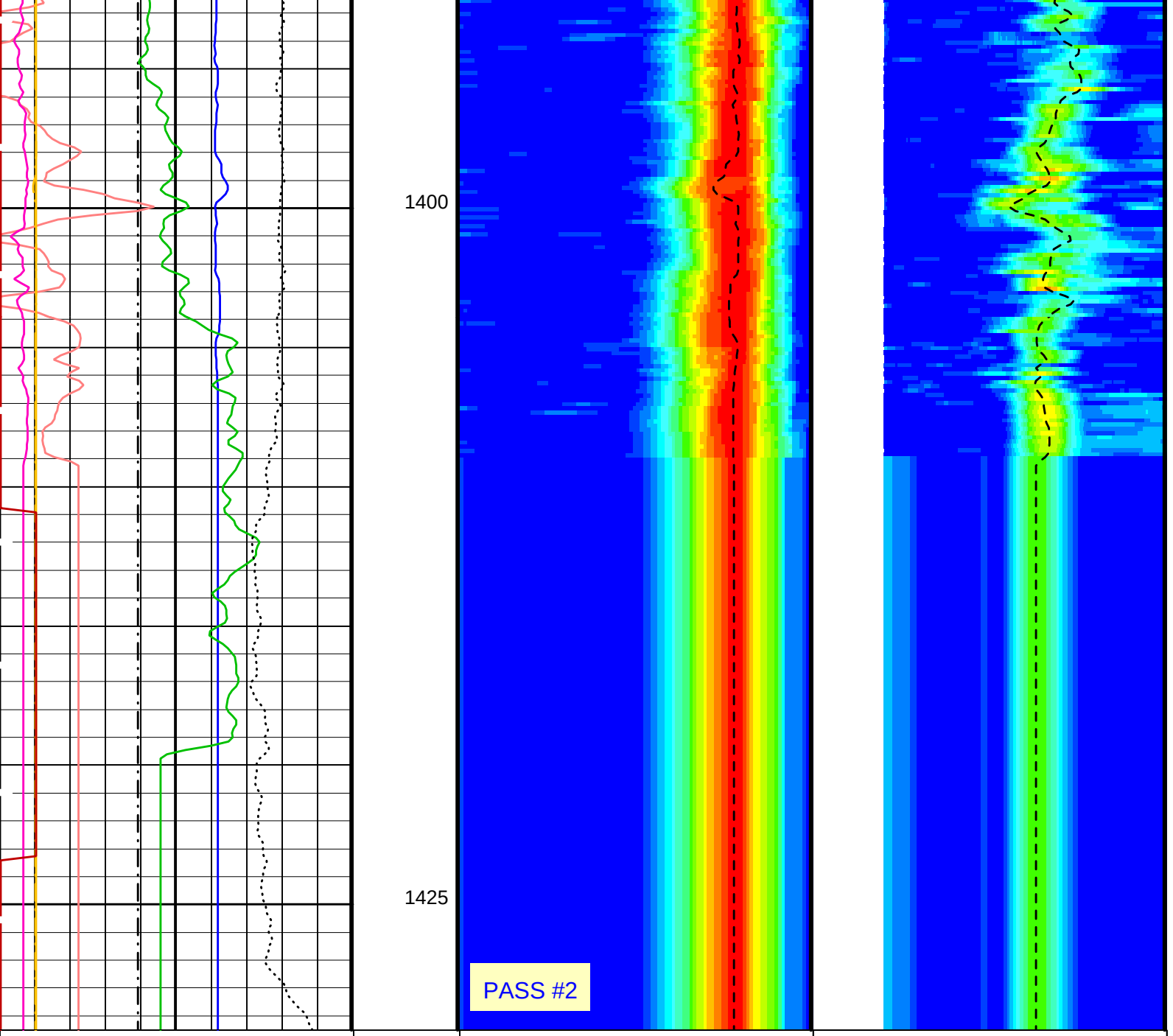
Delta-T Shear - P & S (DT4S)

440 (US/F) 40

Min	Amplitude	Max


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
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)
75
(US/F)
1200
Delta-T Shear / RA - Upper Dipole (DT2R)
75
(US/F)
1200
PASS #2
GR
-DRILL PIPE
1300
1325
WCI4
CHRS
CHRP
CHR2
DT4S
DT4P
DT2R


BS
1350
1375



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

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

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

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	100	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	SLOW	
SFM2	STC Filter - Upper Dipole	B1-3K	
SFM4	STC Filter - Monopole P&S	B3-12K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240	US/F
SLL2	STC Slowness Lower Limit - Upper Dipole	300	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	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	240	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	150	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	3660	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	9.875	IN

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 18-Aug-2002 01:46

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_022LUP	FN:28	PRODUCER	18-Aug-2002 01:46		
REDUCE	FMS_DSI_022LUP	FN:29	PRODUCER	18-Aug-2002 01:46		

Output DLIS Files

DEFAULT	FMS_DSI_022LUP	FN:28	PRODUCER	18-Aug-2002 01:46	1429.5 M	1290.9 M
REDUCE	FMS_DSI_022LUP	FN:29	PRODUCER	18-Aug-2002 01:46	1429.5 M	1290.9 M

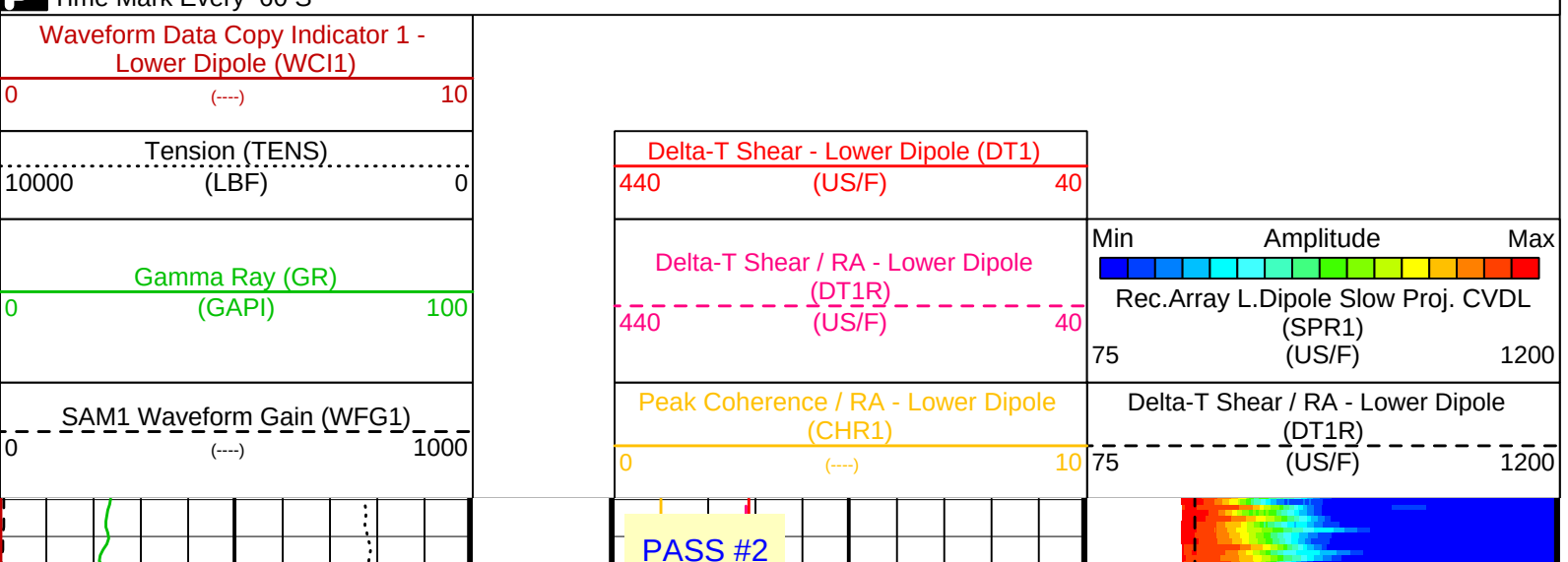
OP System Version: 10C0-306

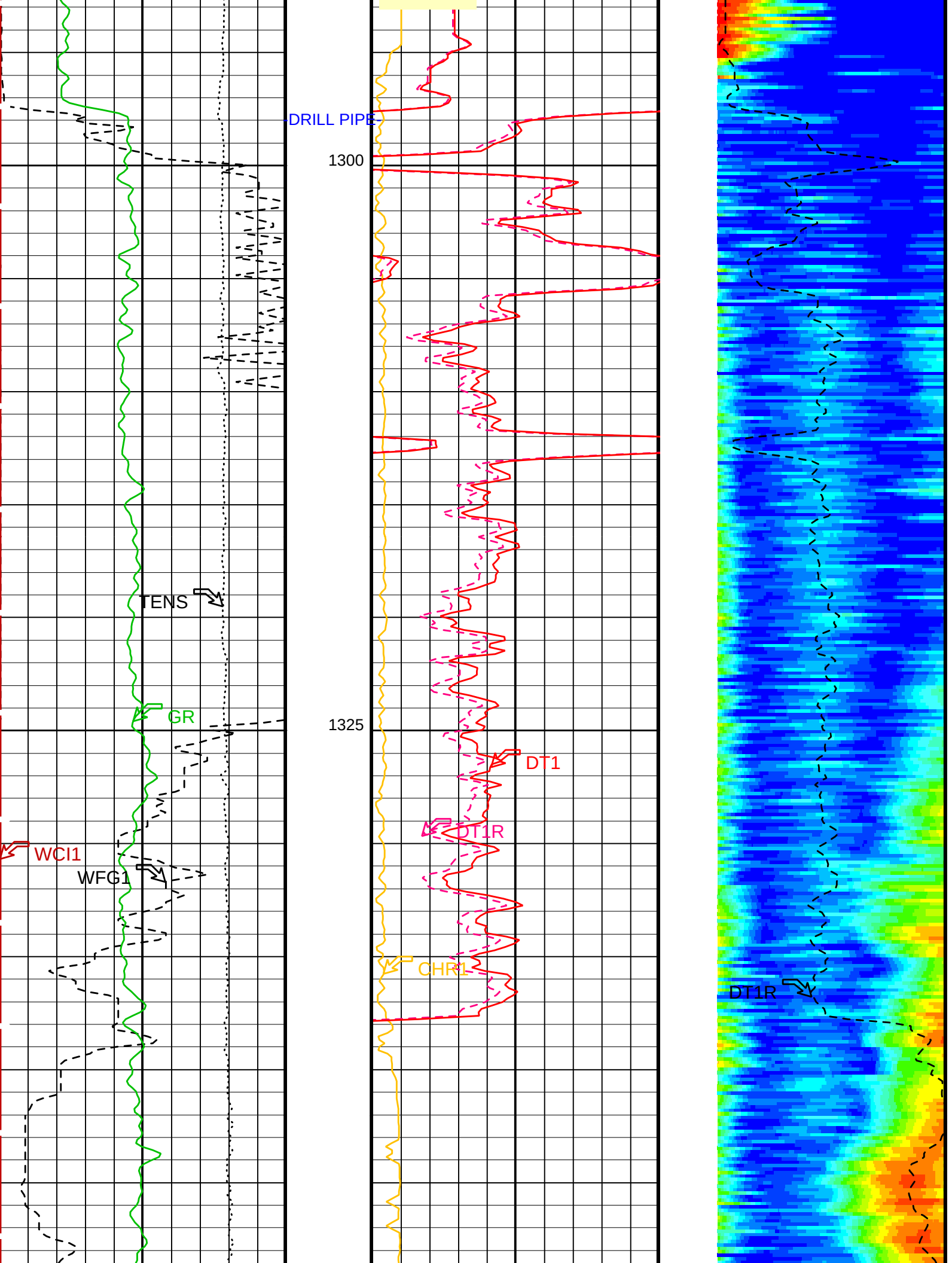
MCM

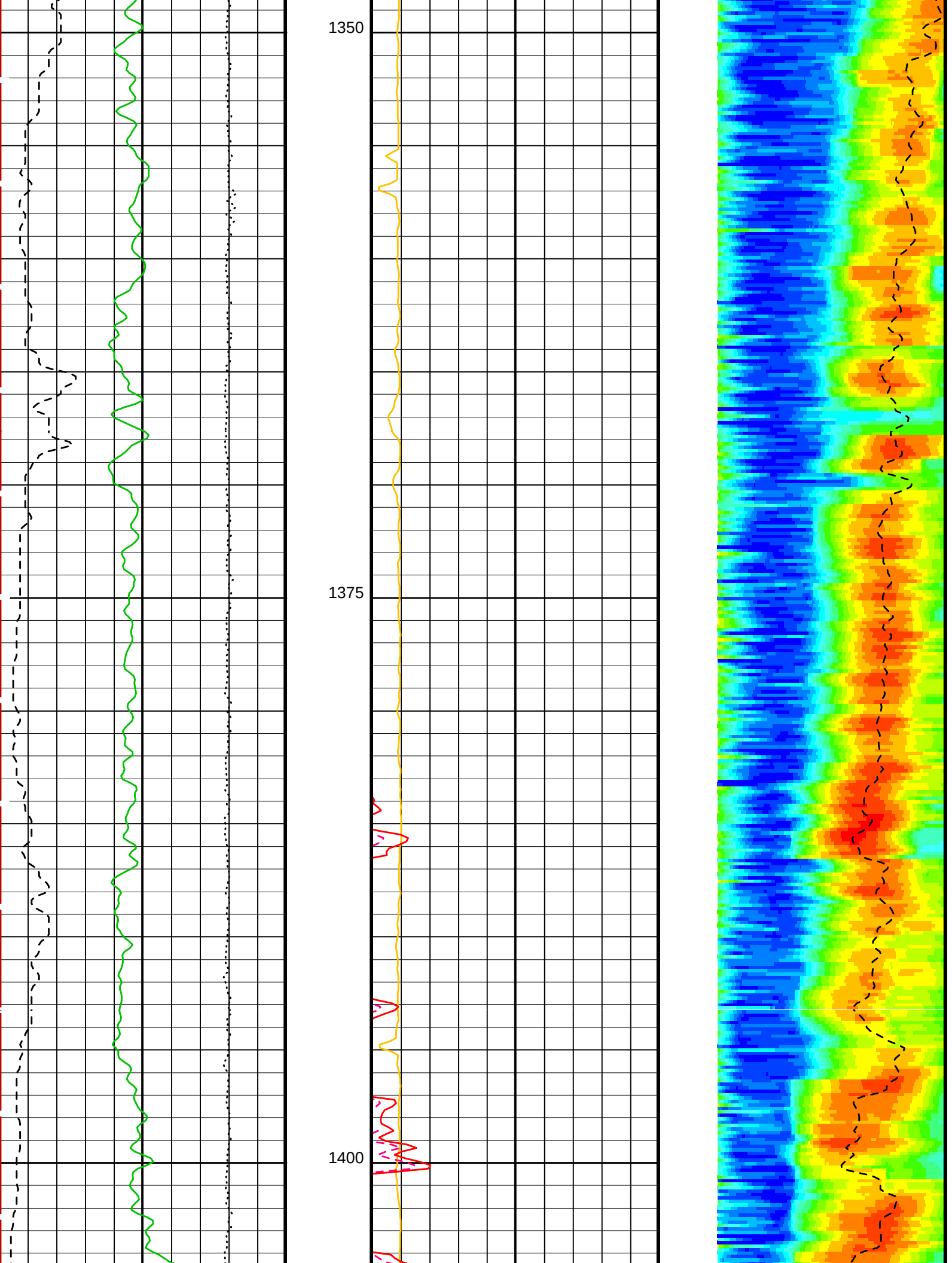
MEST-B	10C0-306	DTA-A	10C0-306
SGT-N	10C0-306	DSST-B	OP10-KP1
DTC-H	10C0-306		

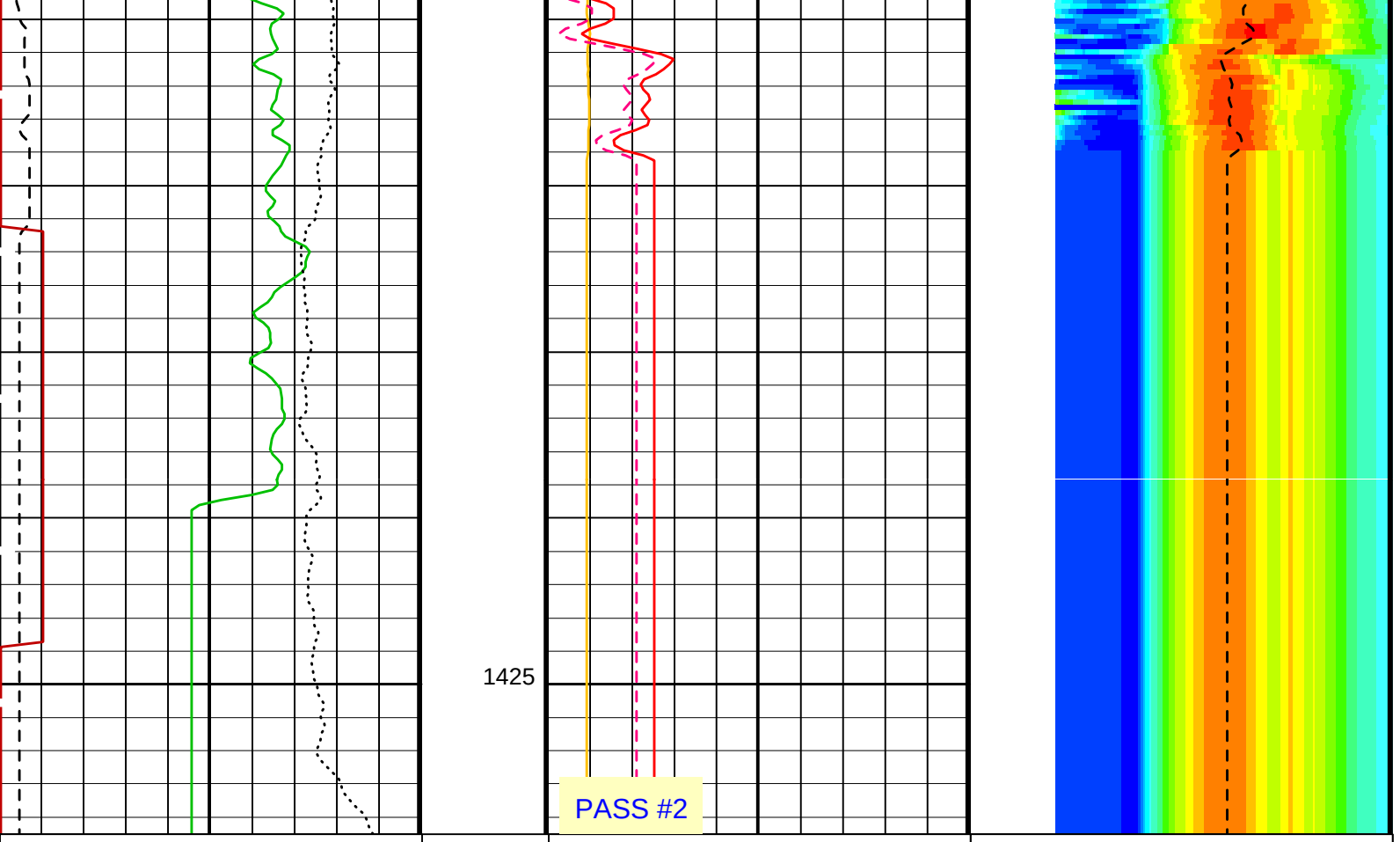
PIP SUMMARY

Time Mark Every 60 S




DRILL PIPE
1300
TENS
GR
1325
DT1
DT1R
WCI1
WFG1
CHR1
DT1R


1350
1375
1400



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: 18-Aug-2002 01:46

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_022LUP	FN:28	PRODUCER	18-Aug-2002 01:46		
REDUCE	FMS_DSI_022LUP	FN:29	PRODUCER	18-Aug-2002 01:46		

Output DLIS Files

DEFAULT	FMS_DSI_018LUP	FN:22	PRODUCER	18-Aug-2002 00:55	1427.1 M	1289.8 M
REDUCE	FMS_DSI_018LUP	FN:23	PRODUCER	18-Aug-2002 00:55	1427.1 M	1289.8 M

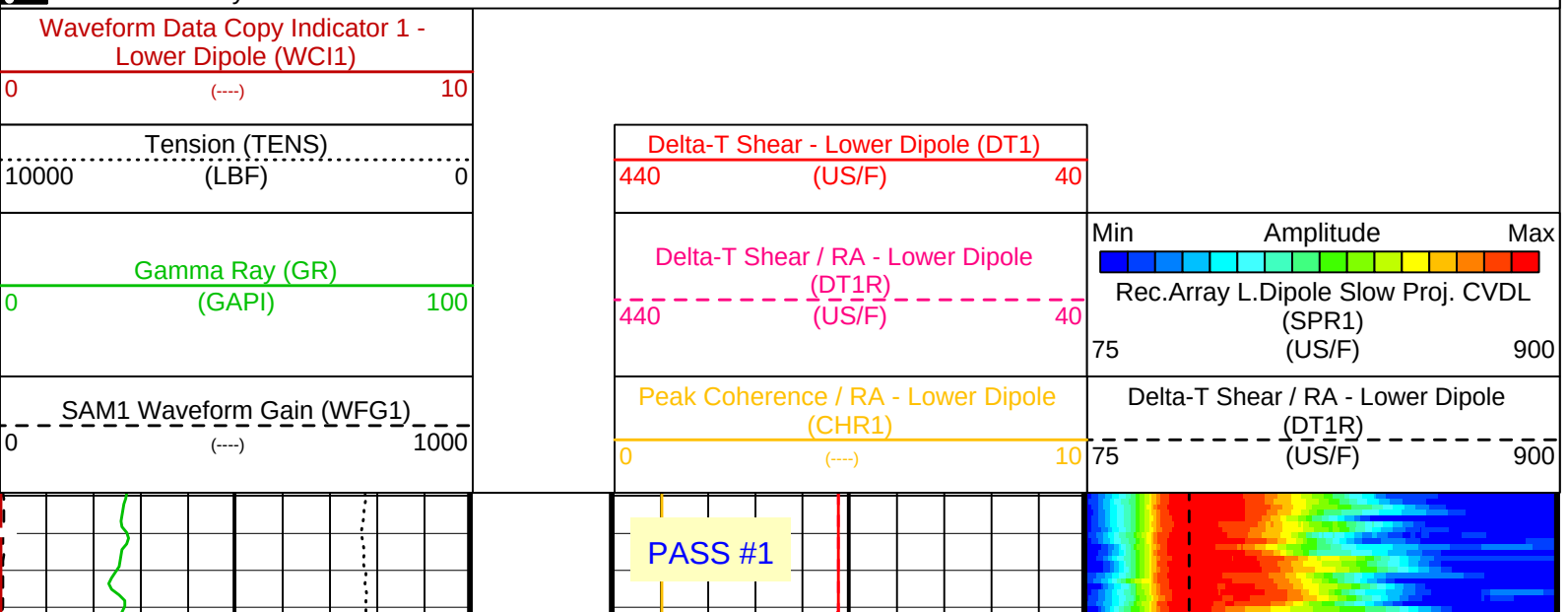
OP System Version: 10C0-306

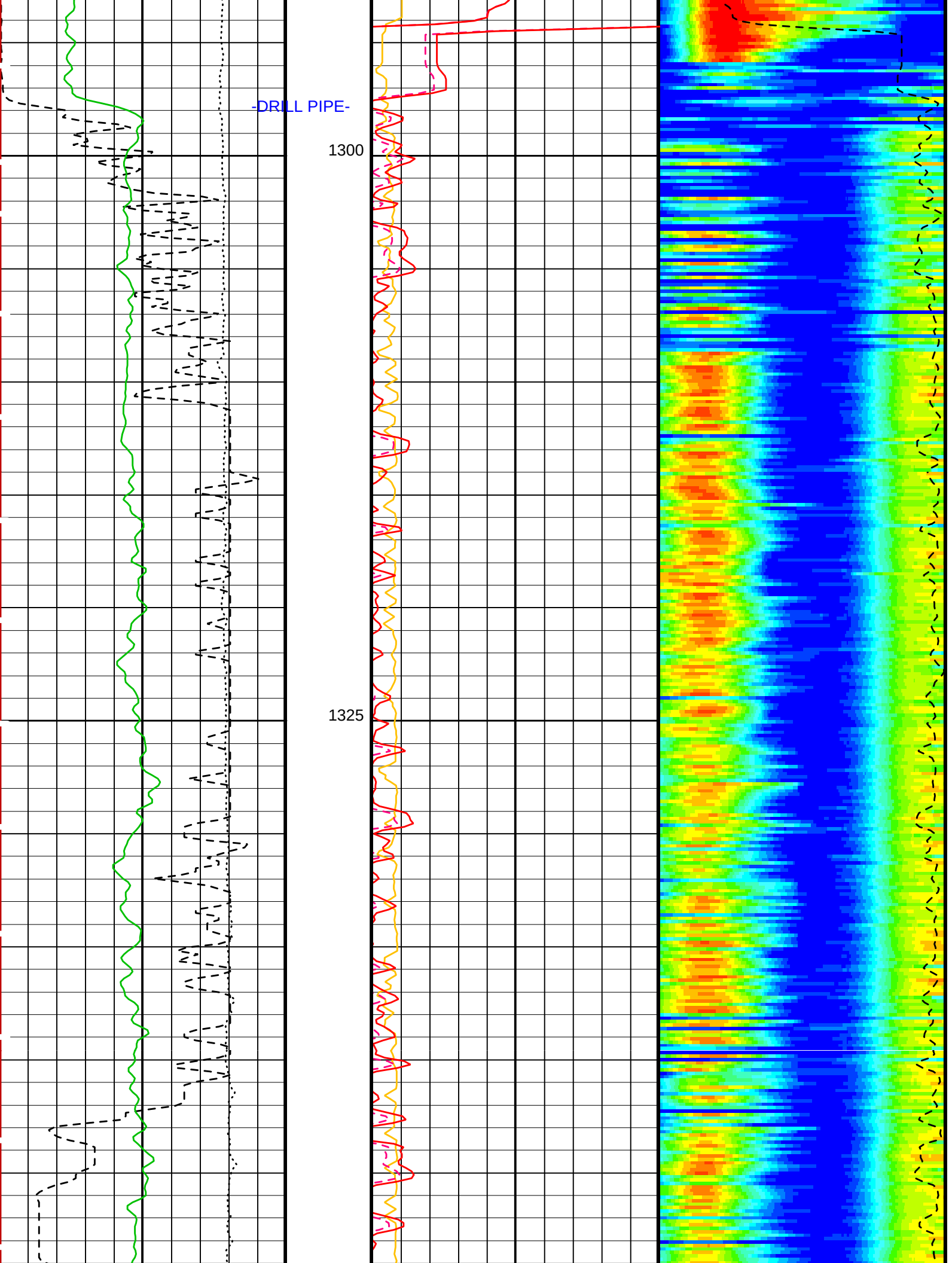
MCM

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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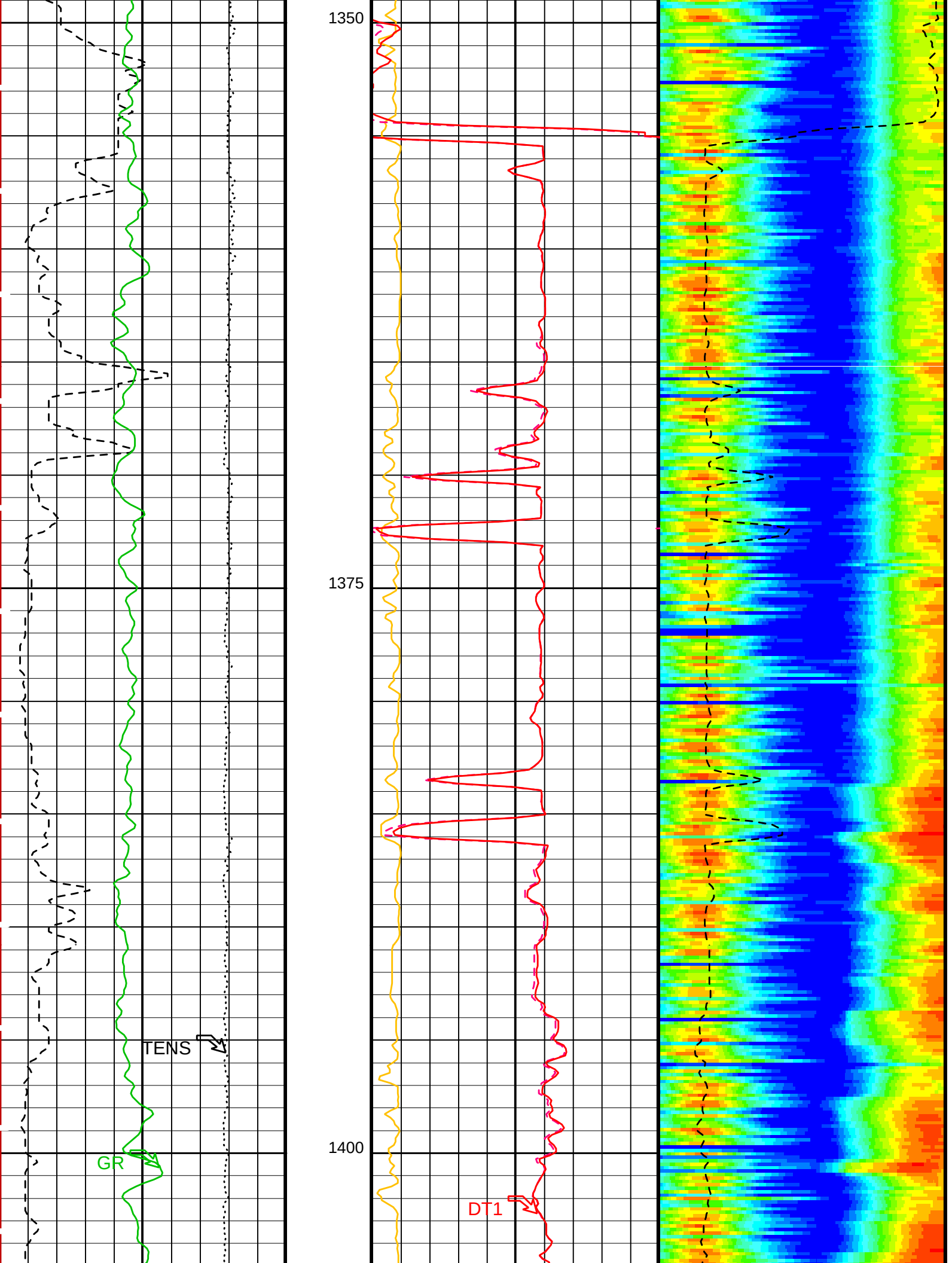
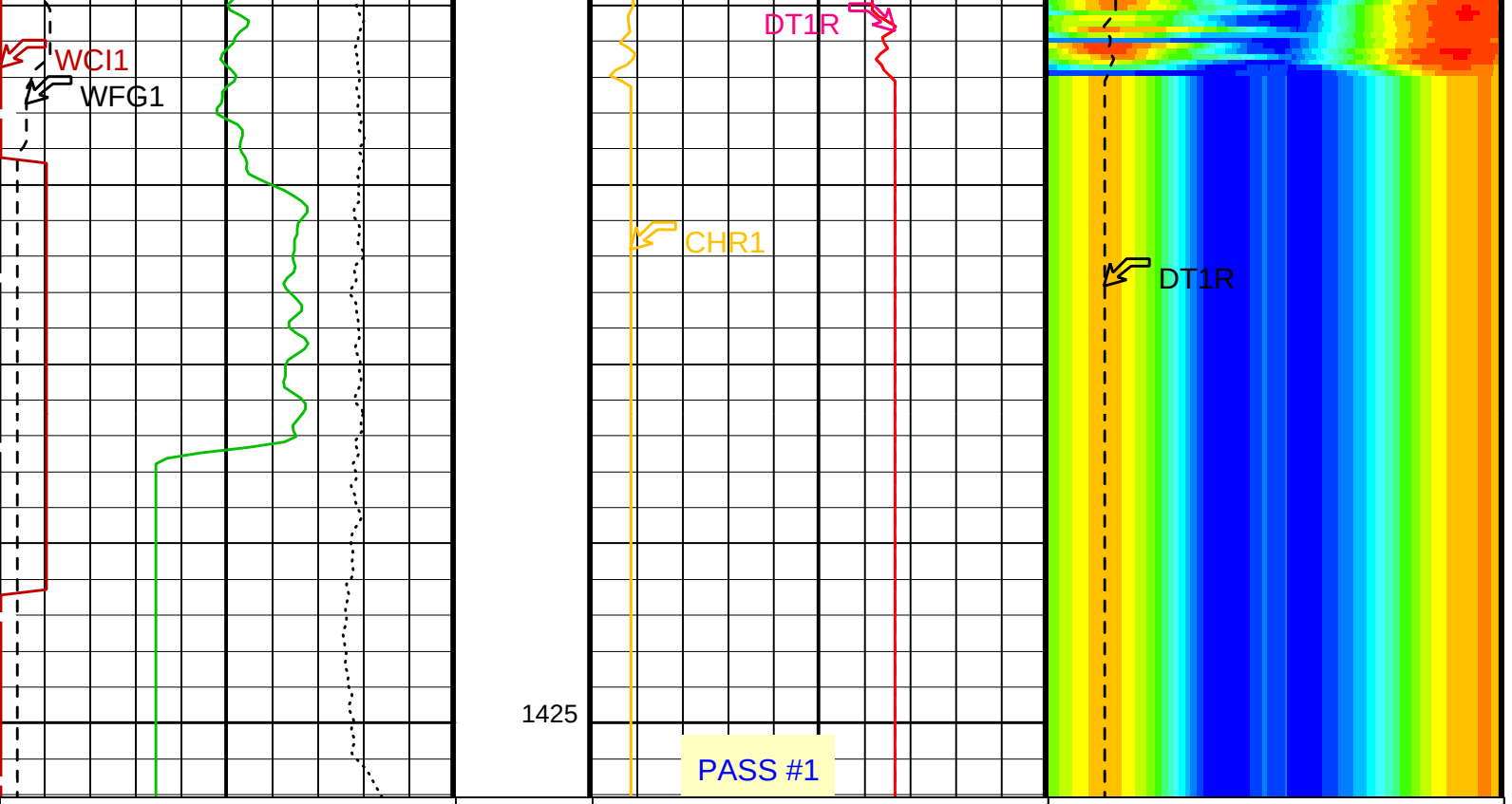
1300
1325


1350
1375
1400
TENS
GR
DT1



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) 900

Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 900

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	900	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 Export		

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	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	900	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	17350	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: 18-Aug-2002 00:55

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_018LUP	FN:22	PRODUCER	18-Aug-2002 00:55	
REDUCE	FMS_DSI_018LUP	FN:23	PRODUCER	18-Aug-2002 00:55	

Output DLIS Files

DEFAULT	FMS_DSI_018LUP	FN:22	PRODUCER	18-Aug-2002 00:55	1427.1 M	1289.8 M
REDUCE	FMS_DSI_018LUP	FN:23	PRODUCER	18-Aug-2002 00:55	1427.1 M	1289.8 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

Pass #1

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

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

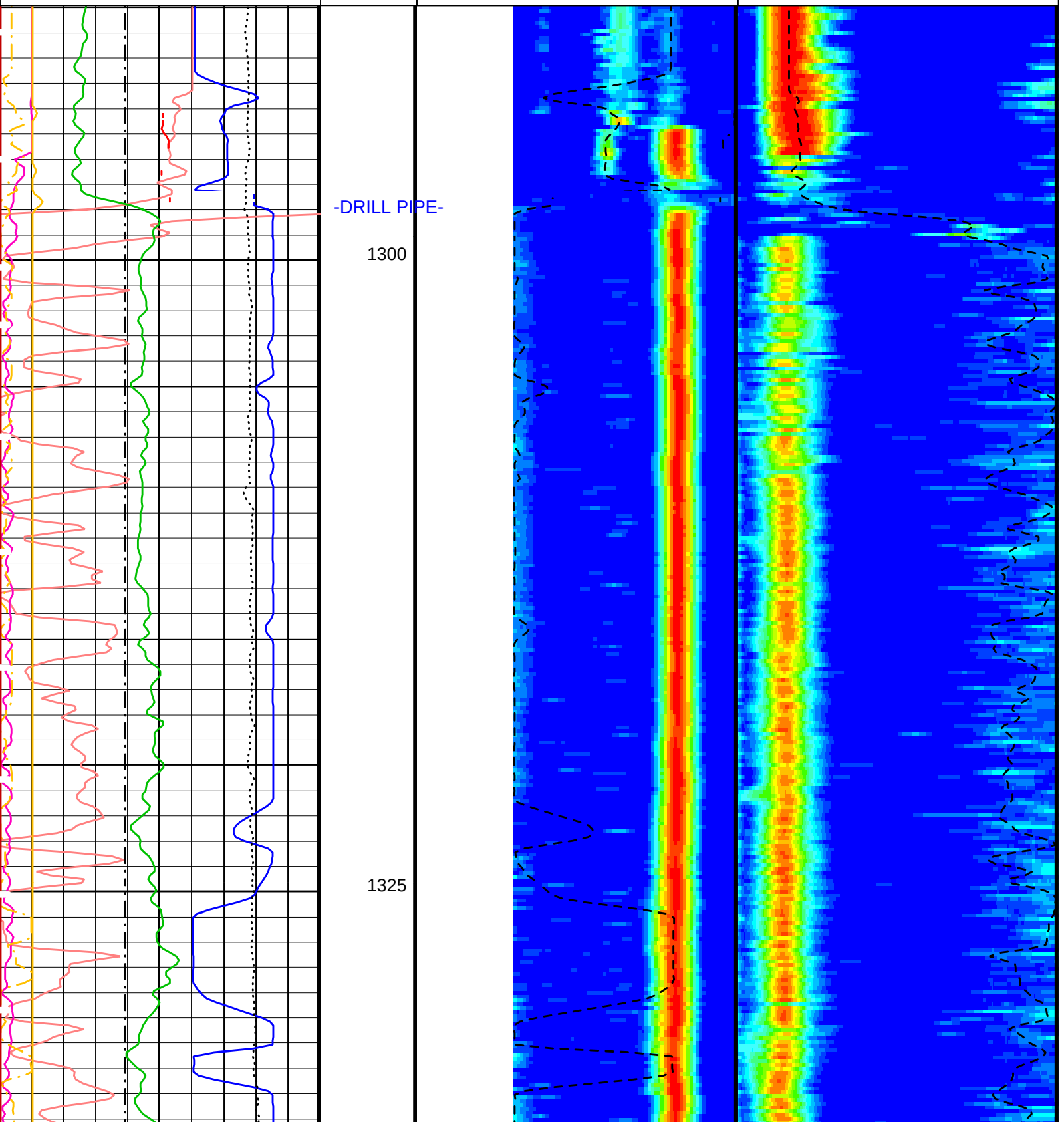
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 900

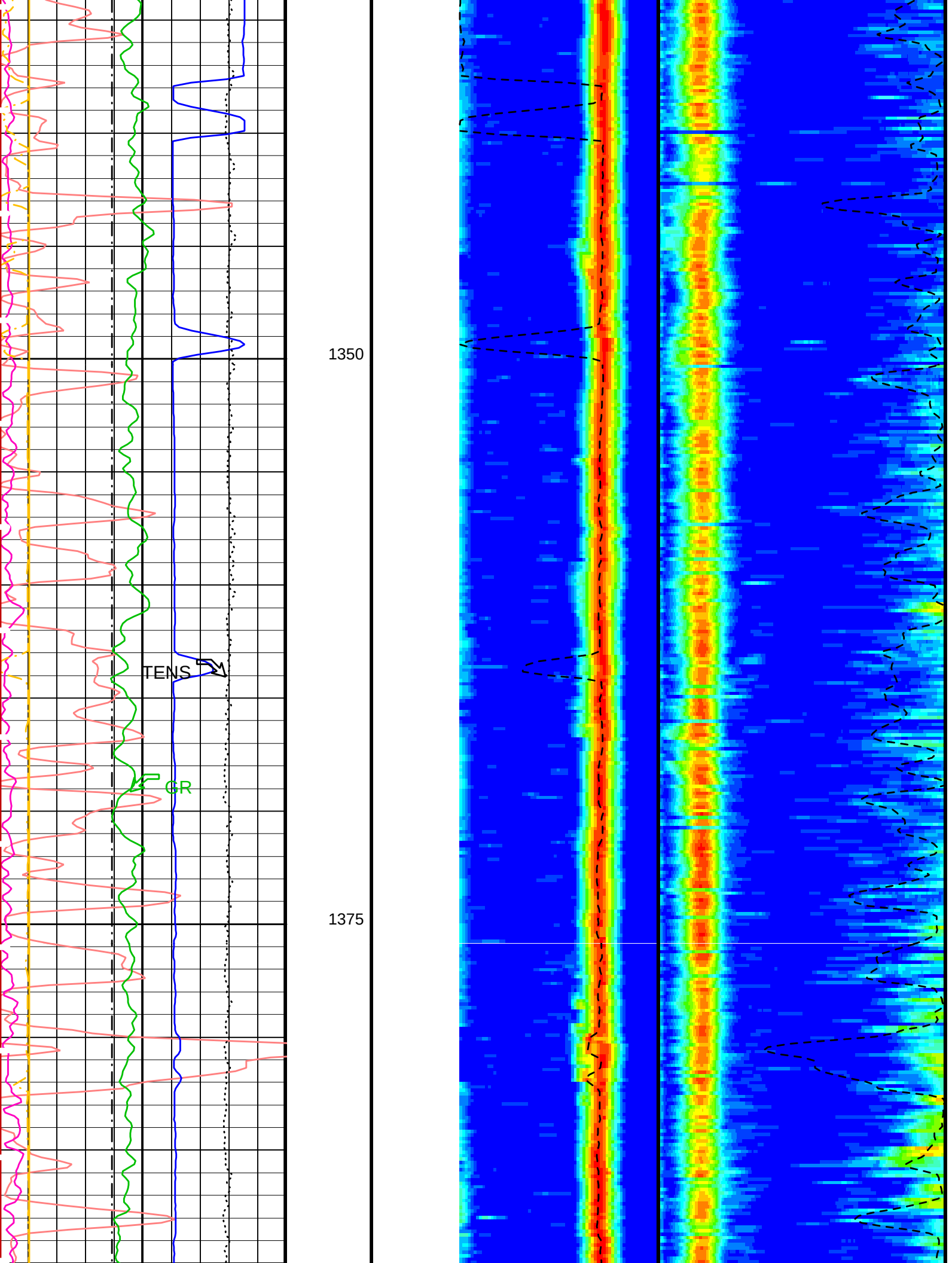
Delta-T Shear / RA - Upper Dipole (DT2R)
75 (US/F) 900

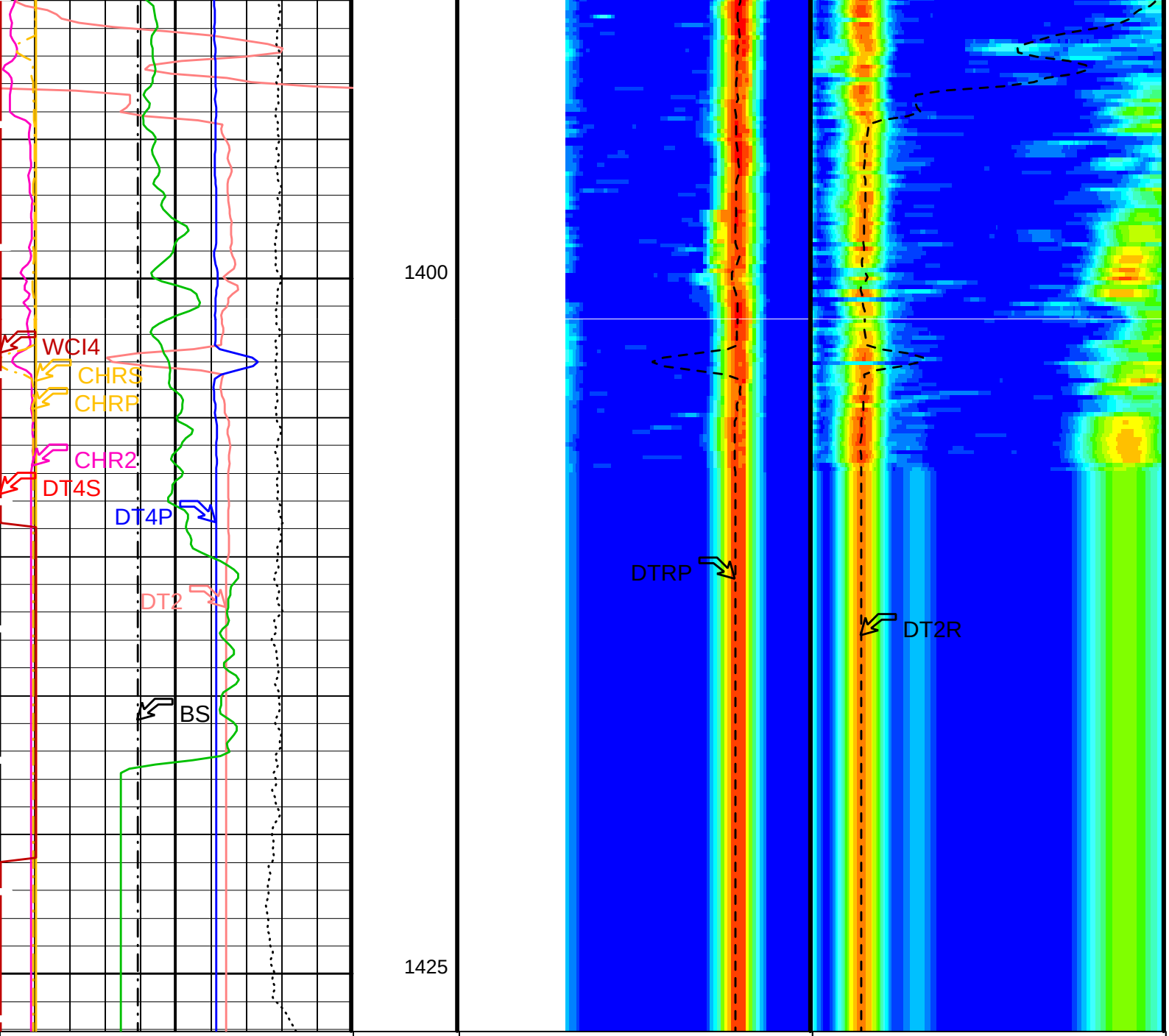
-DRILL PIPE-

1300

1325




1350
TENS
GR
1375



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

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) 900

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 900

Pass #1

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

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	100	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	75	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	900	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	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	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240	US/F
SLL2	STC Slowness Lower Limit - Upper Dipole	75	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	900	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	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	600	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	16900	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	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	9.875	IN

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 18-Aug-2002 00:55

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_018LUP	FN:22	PRODUCER	18-Aug-2002 00:55
REDUCE	FMS_DSI_018LUP	FN:23	PRODUCER	18-Aug-2002 00:55

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 12:28							
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: 17-Aug-2002 23:46							
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: 17-Aug-2002 23:46							
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 12:08							
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

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	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		4.854	Before		164.1	Before		165.0
0 (Minimum)	30.00 (Nominal) 120.0 (Maximum)		149.2 (Minimum)	164.1 (Nominal) 179.0 (Maximum)		150.0 (Minimum)	165.0 (Nominal) 180.0 (Maximum)	

Before: Calibration out of date 27-Jul-2002 12:08

Company: Lamont Doherty

Schlumberger

Well: ODP Leg 204, Site 1251H
Field: Hydrate Ridge
Ocean: Pacific
State: Oregon

Dipole Shear Sonic
P&S Compressional Monopole
Gamma Ray