Schlumberger

Company: Lamont Doherty Earth Observatory

Well: ODP Leg 205, Site 1253A
Field: Costa Rica
Ocean: Pacific Country: Costa Rica

Ocean: Pacific
Field: Costa Rica
Location: ODP Leg 205, Site 1253A
Well: Company: Lamont Doherty Earth Observat

Dipole Shear Sonic Tool

Gamma Ray

LOCATION

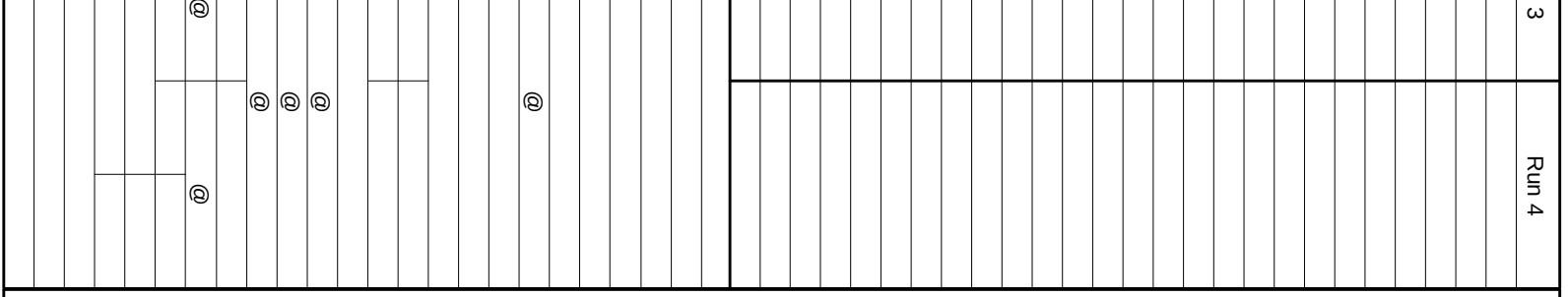
Elev.: K.B. 11.3 m
G.L. 0 m
D.F. 11 m

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

API Serial No.	Max. Hole Devi.	Longitude 86* 11.4' W	Latitude 9* 38.9' N

	Run 1	Run 2	Run 3
Logging Date	8-Oct-2002		
Run Number	Two		
Depth Driller	4987 m		
Schlumberger Depth	4987 m		
Bottom Log Interval	4950 m		
Top Log Interval	4800 m		
Casing Driller Size @ Depth	0.000 in @ 4800 m	@	@
Casing Schlumberger	4800 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	7-Oct-2002	18:00	
Logger On Bottom / Time	8-Oct-2002	20:55	
Unit Number / Location	99	Houston-ODP	
Recorded By	J. Espinosa		
Witnessed By	M. Kyaw, H. Villinger		

	Run 1	Run 2	Run 3
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity			
MUD Fluid Loss / PH			
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC			
RM @ MRT / RMF @ MRT	@	@	
Maximum Recorded Temperatures			
Circulation Stopped / Time			
Logger On Bottom / Time			
Unit Number / Location			
Recorded By			
Witnessed By			



DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: IPL	OS1:
OS2: DIT	OS2:
OS3: TAP	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Depths in meters below rig floor.	
Drill pipe SLB at 4798 mbrf.	
Sea Floor SLB at 4390 mbrf.	
Dipole sonic tool data sent lo Lamont for further	
processing.	
Data may be afected in some sections due bad hole conditions	
Maximum caliper reading in some sections.	

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 RUN 2

SURFACE EQUIPMENT

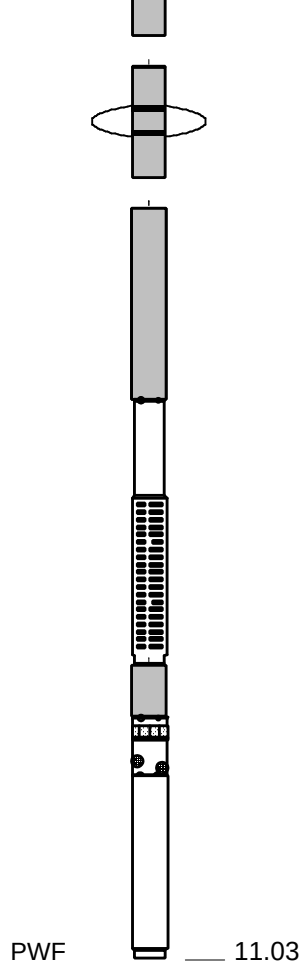
GSR-U/Y
WITM (DTS)-A

DOWNHOLE EQUIPMENT

SGC-TB 9585
SGD-TAA 1

AH-TOP 28.86
AH-TOP

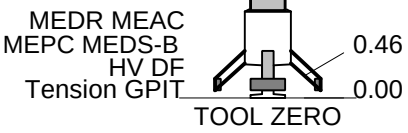
DSST-B 26.57
SPAC-B 9128
ECH-SD 8127
SMDR-BD 11
SSIJ-BA 8151
SMDX-AA 66



AH-BOT 11.03
AH-BOT

DTA-A 8.90
ECH-KE
DTA-A

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

Input DLIS Files

DEFAULT	FMS_DSI_042PUP	FN:53	PRODUCER	08-Oct-2002 20:12	4918.9 M	4766.6 M

Output DLIS Files

DEFAULT	FMS_DSI_069PUP	FN:85	PRODUCER	14-Oct-2002 14:52	4918.9 M	4767.1 M
REDUCED	FMS_DSI_069PUP	FN:86	PRODUCER	14-Oct-2002 14:52	4918.9 M	4767.1 M

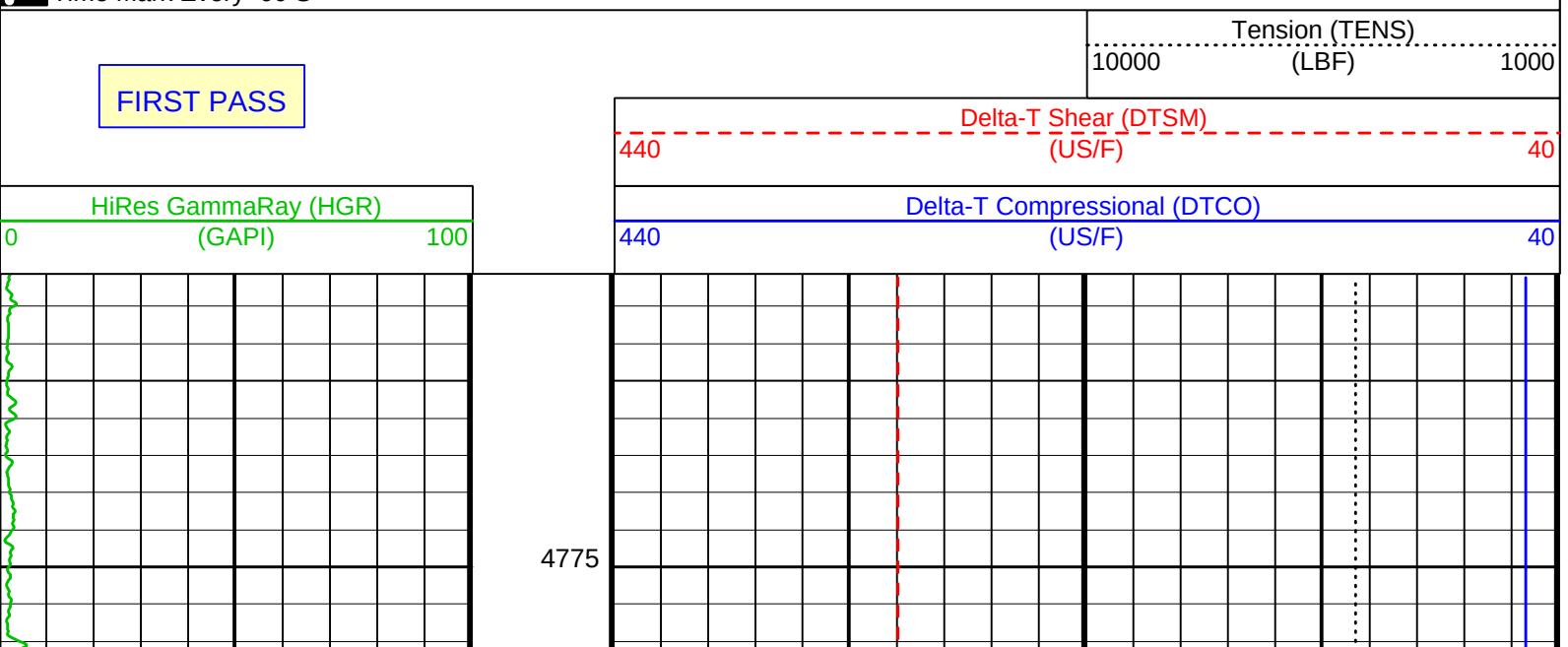
OP System Version: 10C0-306

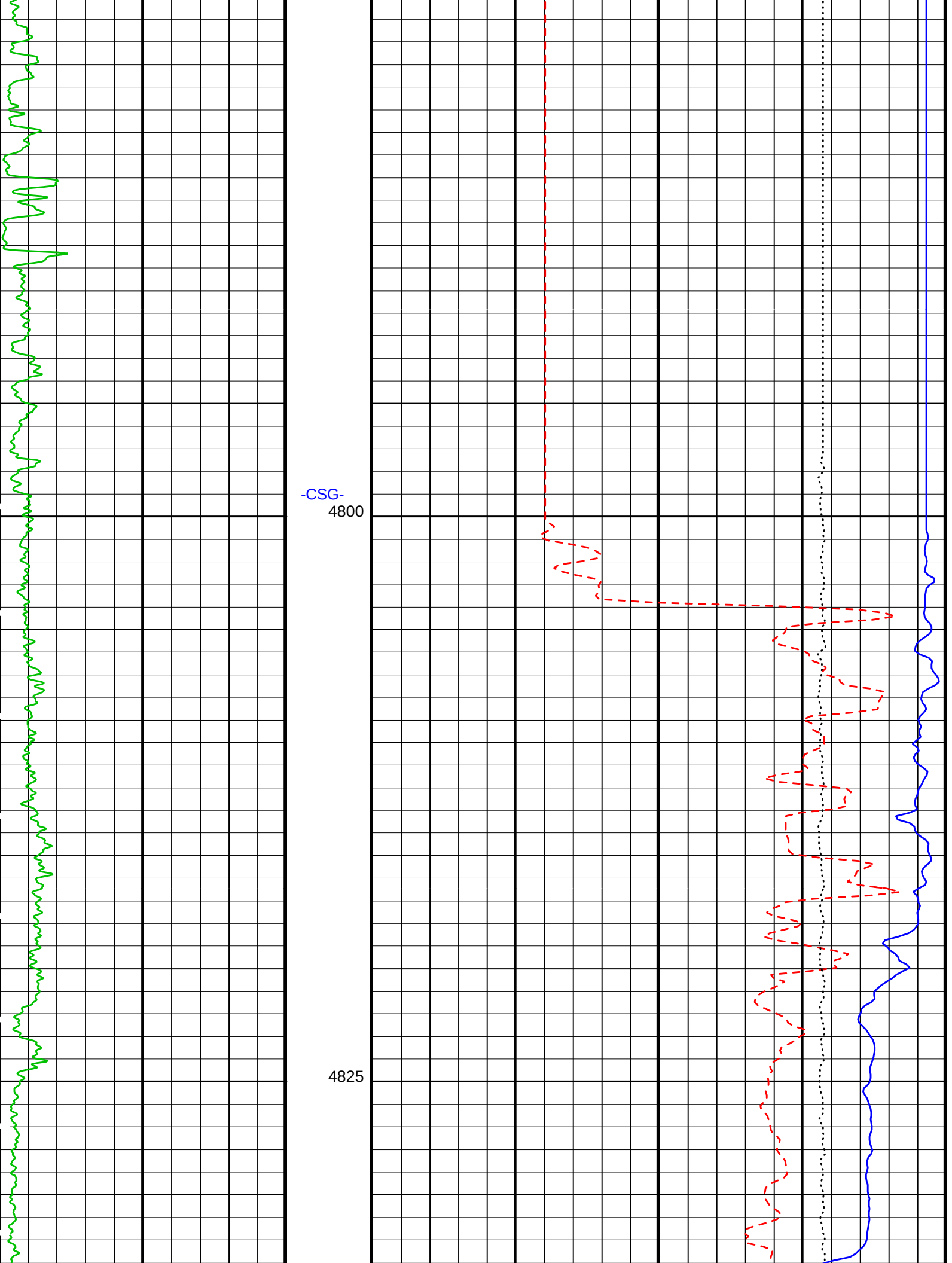
MCM

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

PIP SUMMARY

Time Mark Every 60 S

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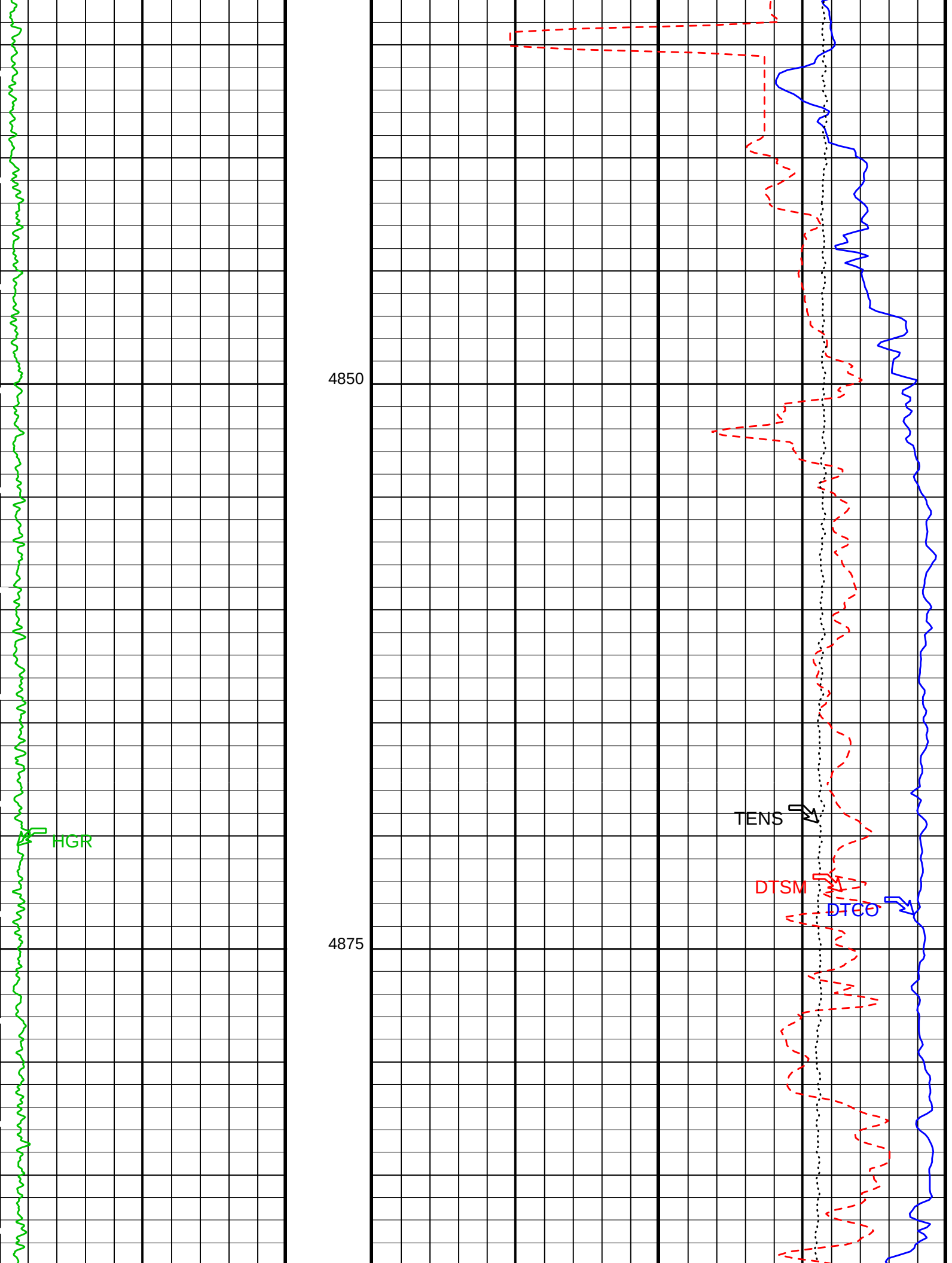
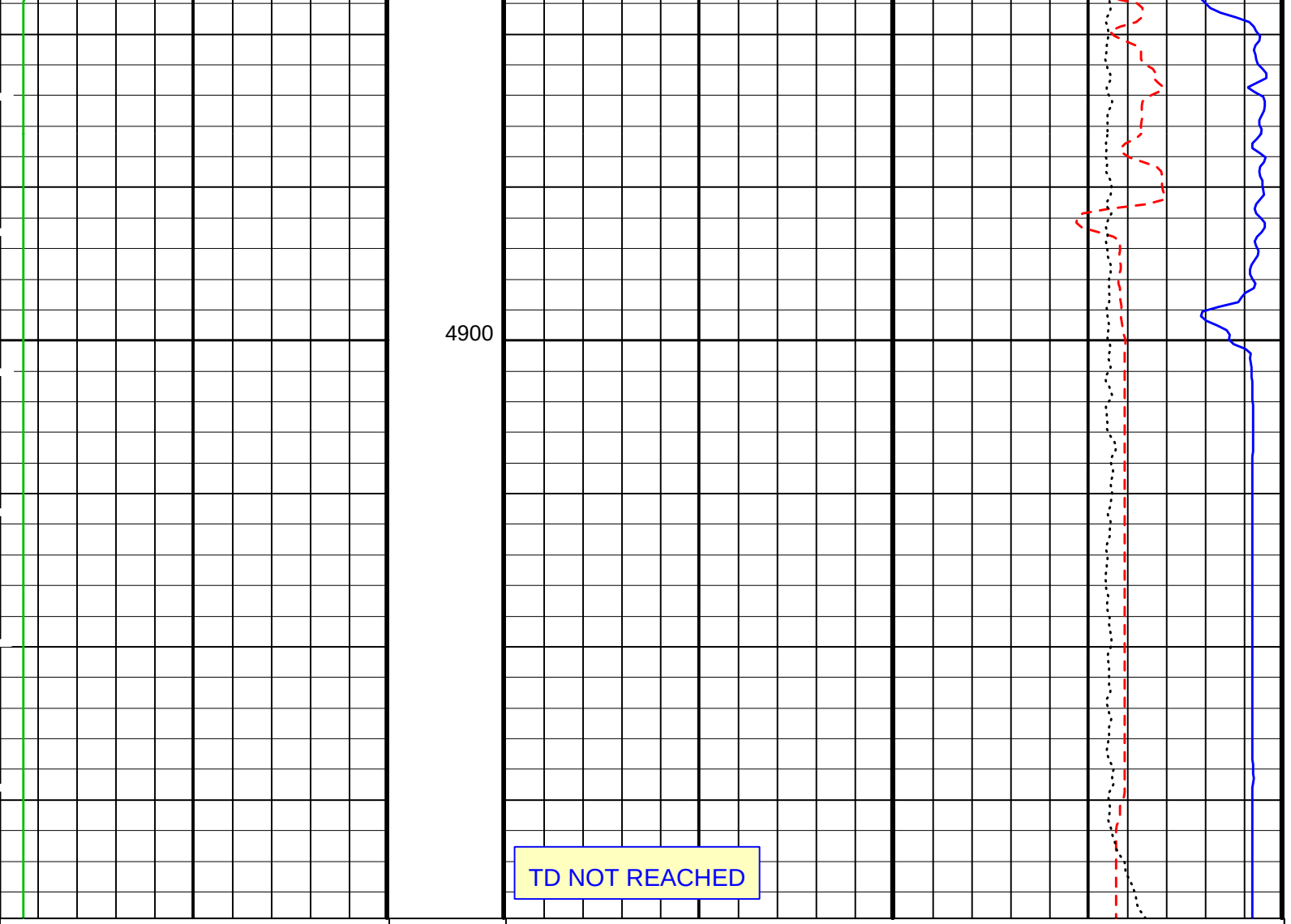
4825


4850
4875
HGR
TENS
DTSM
DTCO



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	DSST-B: Dipole Shear Imager - B	
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTSS	Shear Delta-T Source for DTSM Channel	LOWER_DIPOLE
	System and Miscellaneous	
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Format: DSST_P_S Vertical Scale: 1:200 Graphics File Created: 14-Oct-2002 14:52

OP System Version: 10C0-306

MCM

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

Input DLIS Files

DEFAULT	FMS_DSI_042PUP	FN:53	PRODUCER	08-Oct-2002 20:13	4918.9 M	4766.6 M

DEFAULT	FMS_DSI_042PUP	FN:53	PRODUCER	08-Oct-2002 20:12	4918.9 M	4766.6 M

Output DLIS Files

DEFAULT	FMS_DSI_069PUP	FN:85	PRODUCER	14-Oct-2002 14:52		
REDUCED	FMS_DSI_069PUP	FN:86	PRODUCER	14-Oct-2002 14:52		

Input DLIS Files

DEFAULT	FMS_DSI_041PUP	FN:51	PRODUCER	08-Oct-2002 20:11	4953.0 M	4759.9 M

Output DLIS Files

DEFAULT	FMS_DSI_068PUP	FN:83	PRODUCER	14-Oct-2002 14:47	4953.0 M	4760.4 M
REDUCED	FMS_DSI_068PUP	FN:84	PRODUCER	14-Oct-2002 14:47	4953.0 M	4760.4 M

OP System Version: 10C0-306

MCM

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

PIP SUMMARY

Time Mark Every 60 S

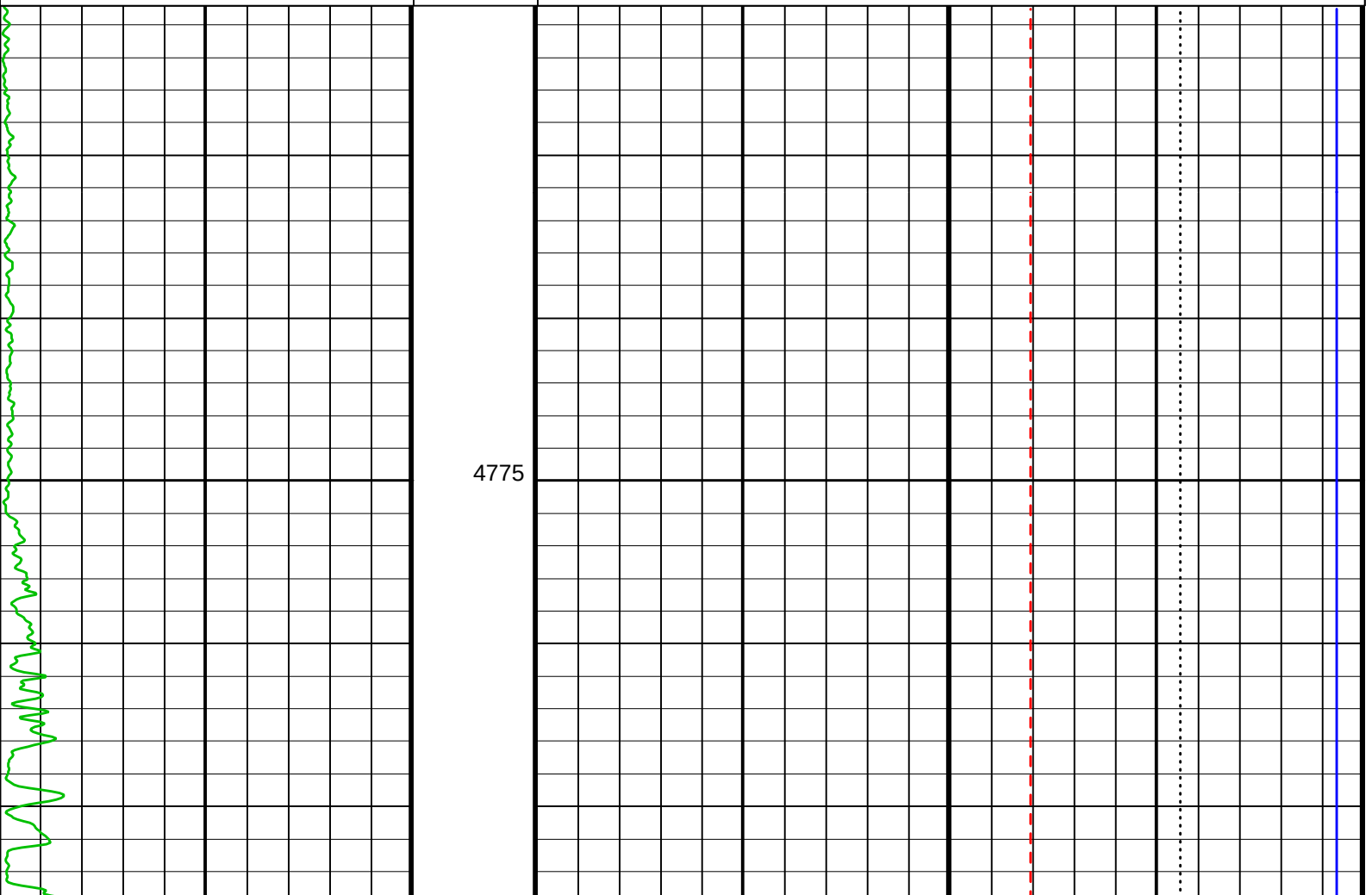
SECOND PASS

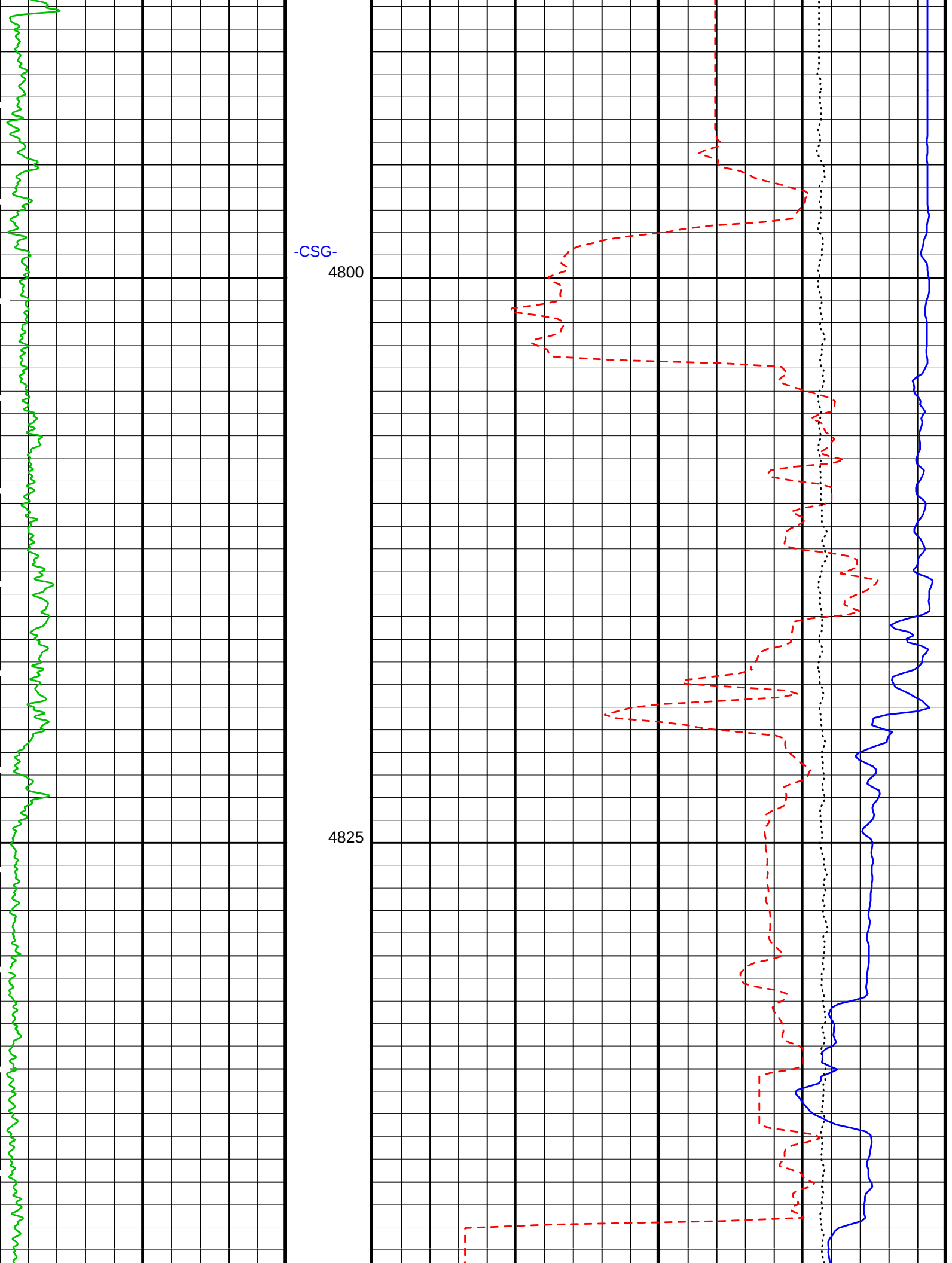
Tension (TENS)
10000 (LBF) 1000

Delta-T Shear (DTSM)
440 (US/F) 40

HiRes GammaRay (HGR)
0 (GAPI) 100

Delta-T Compressional (DTCO)
440 (US/F) 40

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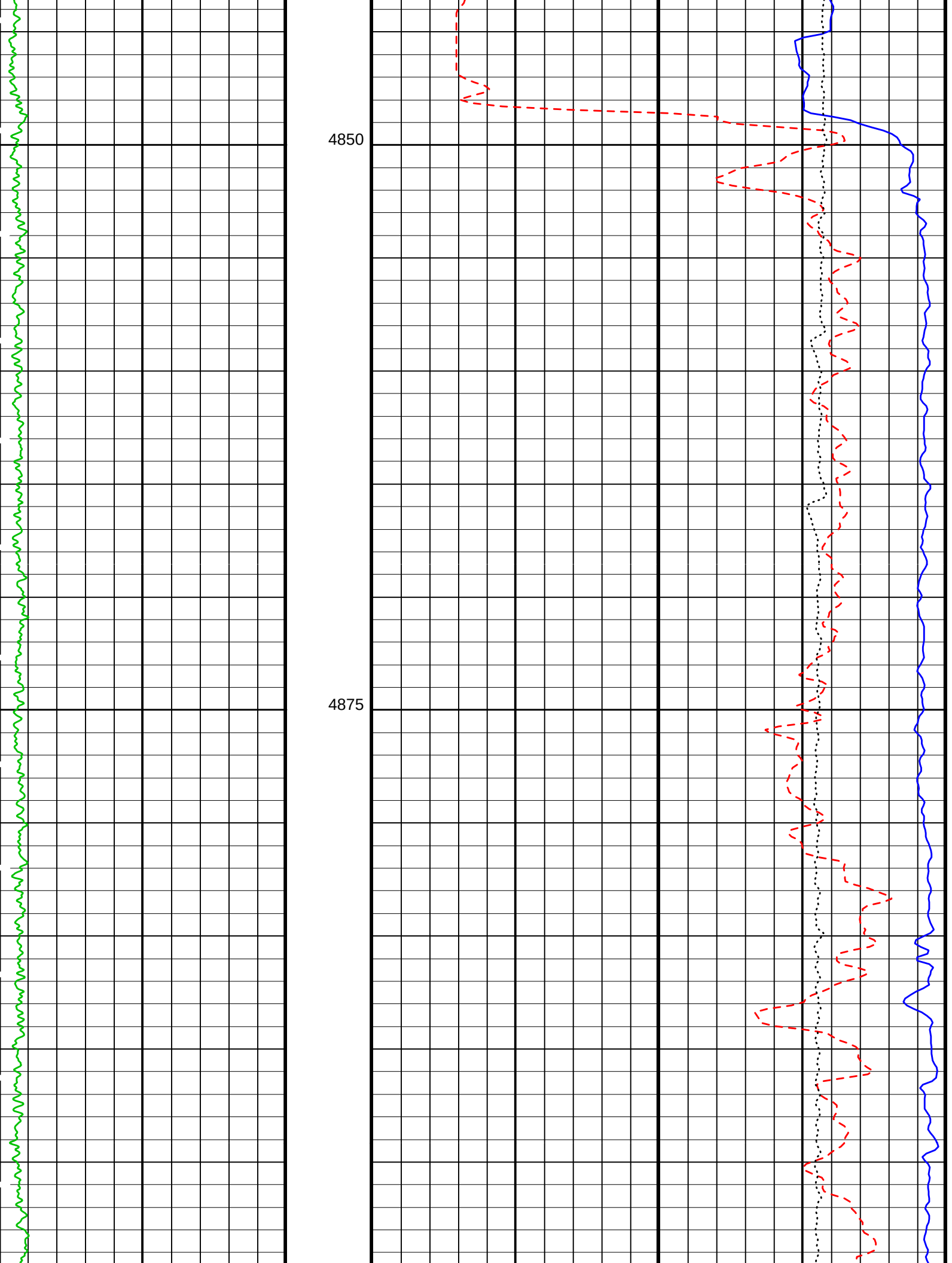
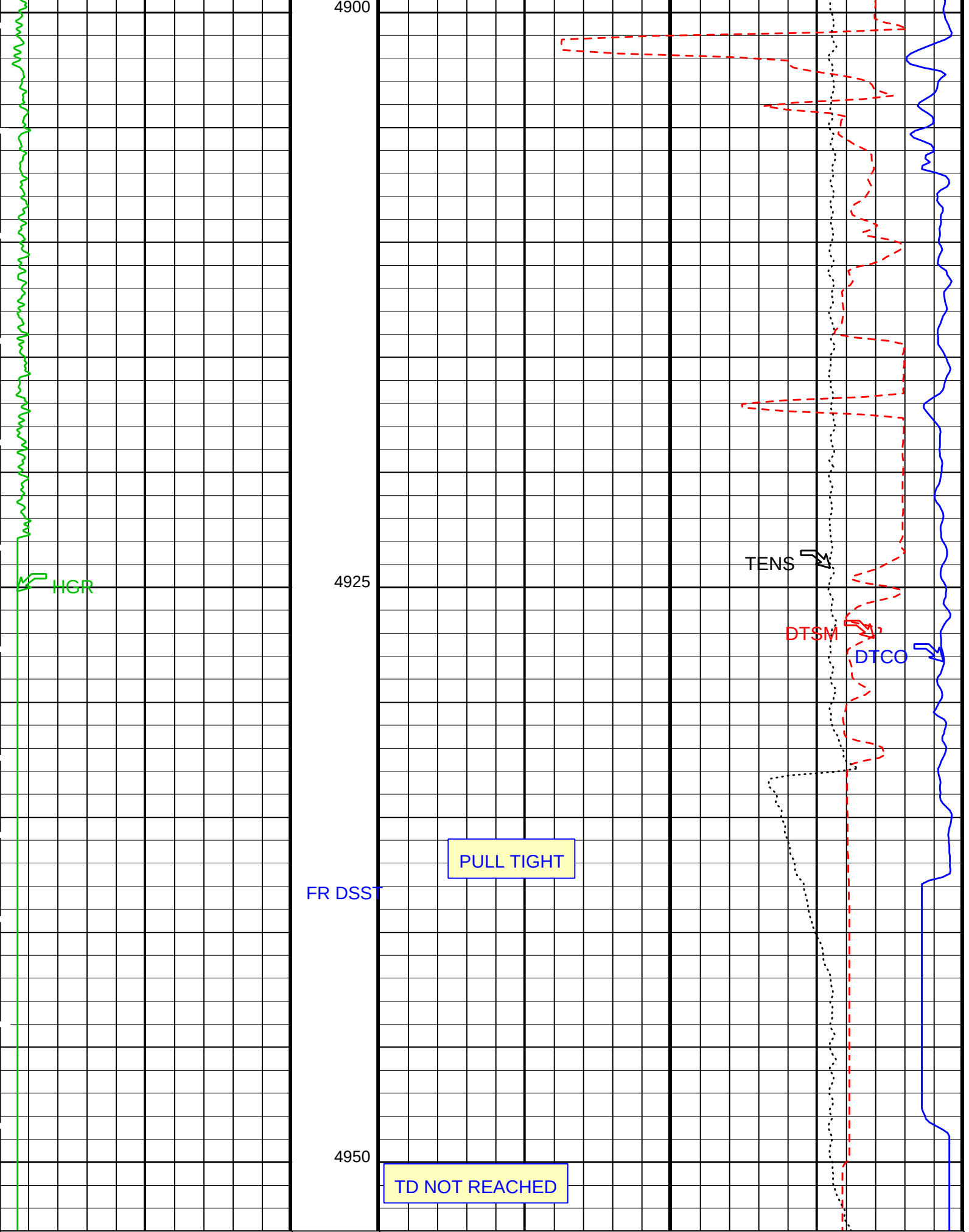
4800
4825


4850
4875


4900
4925
4950
HGR
TENS
DTSM
DTCO
PULL TIGHT
FR DSST
TD NOT REACHED
HiRes GammaRay (HGR)
0
(GAPI)
100
Delta-T Compressional (DTCO)
440
(US/F)
40

Delta-T Shear (DTSM)
440 (US/F) 40

Tension (TENS)
10000 (LBF) 1000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	DSST-B: Dipole Shear Imager - B	
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTSS	Shear Delta-T Source for DTSM Channel	LOWER_DIPOLE
	System and Miscellaneous	
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Format: DSST_P_S Vertical Scale: 1:200 Graphics File Created: 14-Oct-2002 14:47

OP System Version: 10C0-306

MCM

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

Input DLIS Files

DEFAULT	FMS_DSI_041PUP	FN:51	PRODUCER	08-Oct-2002 20:11	4953.0 M	4759.9 M

Output DLIS Files

DEFAULT	FMS_DSI_068PUP	FN:83	PRODUCER	14-Oct-2002 14:47		
REDUCED	FMS_DSI_068PUP	FN:84	PRODUCER	14-Oct-2002 14:47		

Input DLIS Files

DEFAULT	FMS_DSI_042PUP	FN:53	PRODUCER	08-Oct-2002 20:12	4918.9 M	4766.6 M

Output DLIS Files

DEFAULT	FMS_DSI_069PUP	FN:85	PRODUCER	14-Oct-2002 14:52	4918.9 M	4767.1 M
REDUCED	FMS_DSI_069PUP	FN:86	PRODUCER	14-Oct-2002 14:52	4918.9 M	4767.1 M

OP System Version: 10C0-306

MCM

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

PIP SUMMARY

Time Mark Every 60 S

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

FIRST PASS

Tension (TENS)
10000 (LBF) 1000

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

Gamma Ray (GR)
0 (GAPI) 150

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

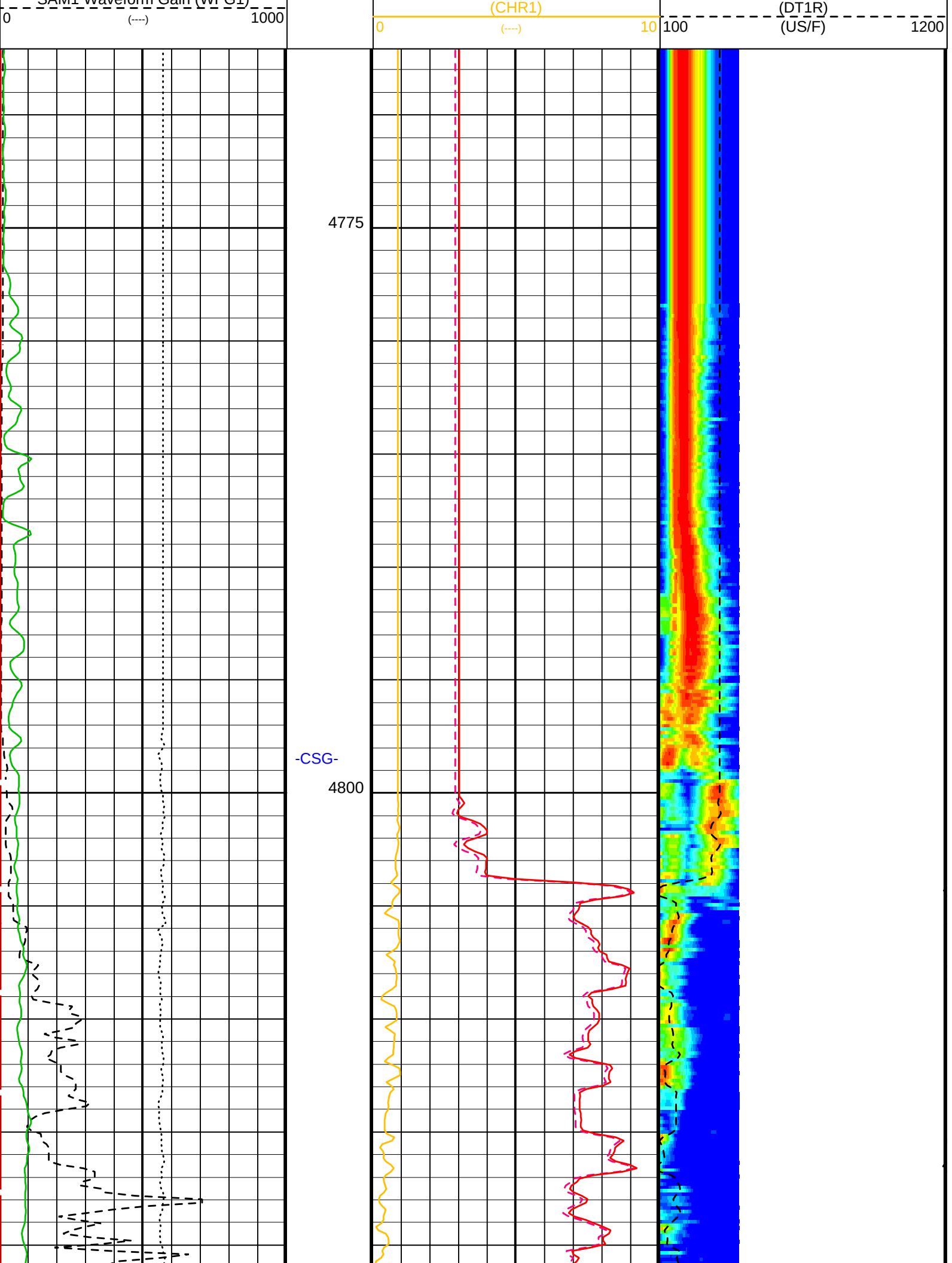
Min Amplitude Max

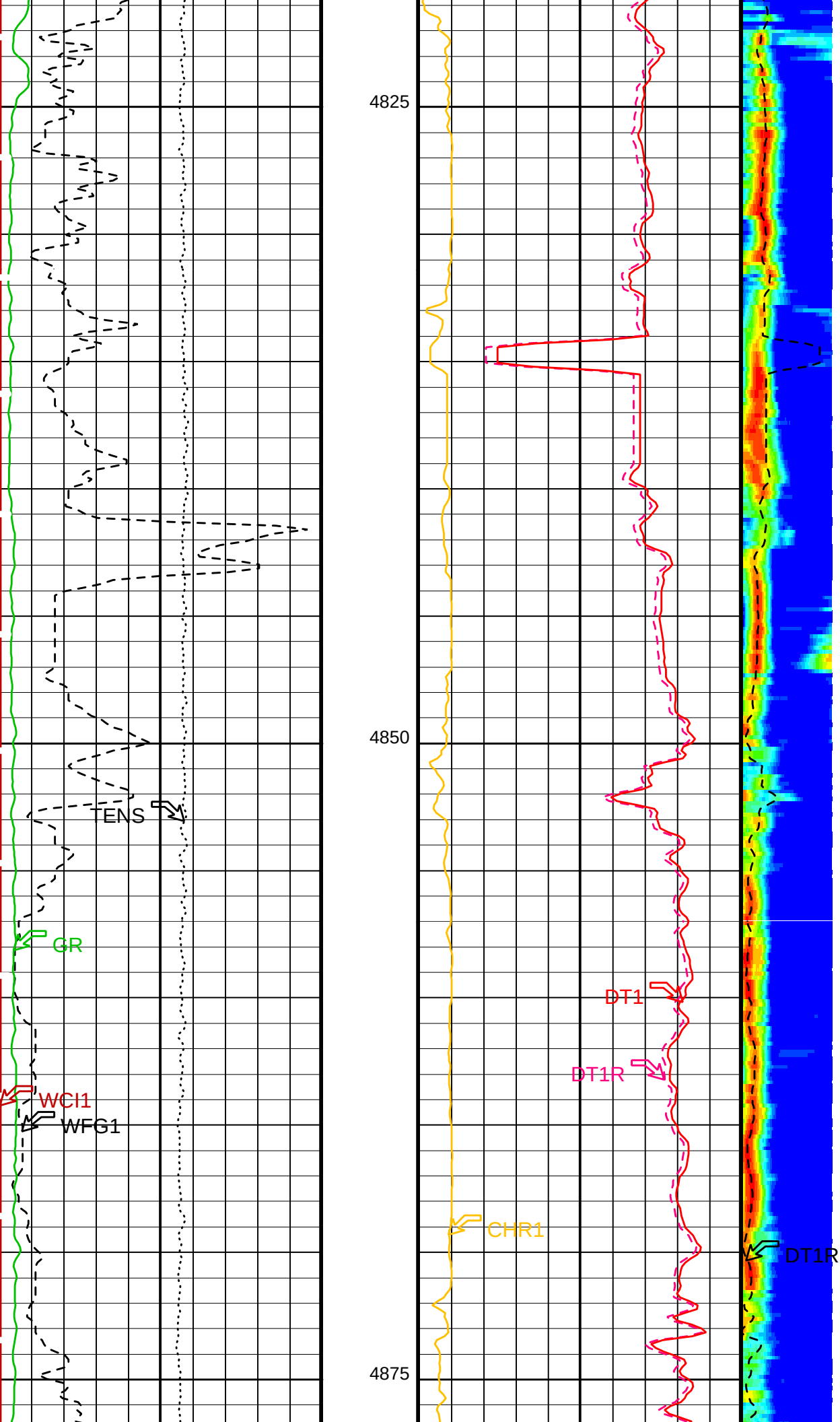
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
100 (US/F) 1200

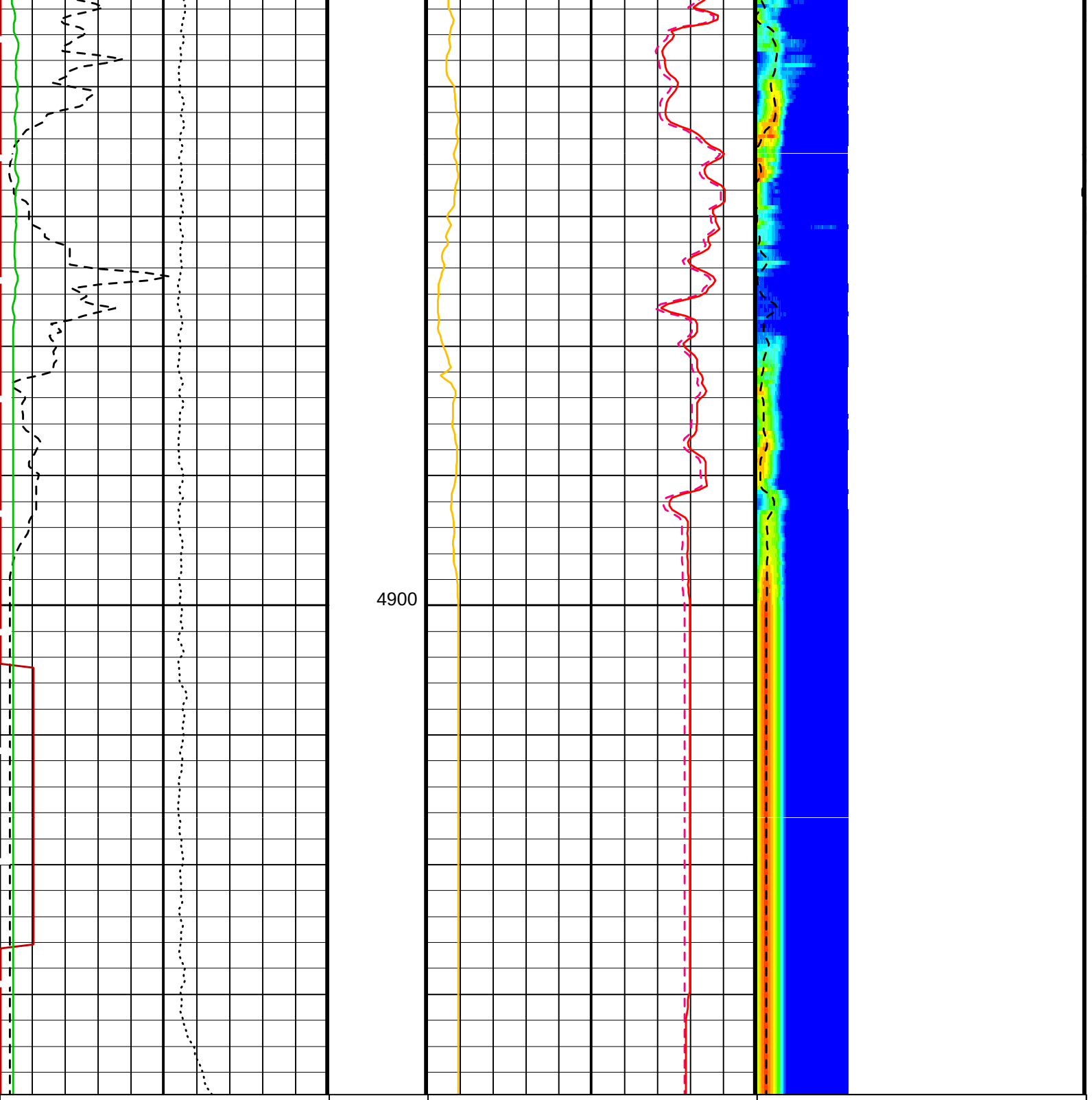
SAM1 Waveform Gain (WFG1)

Peak Coherence / RA - Lower Dipole

Delta-T Shear / RA - Lower Dipole


SAM1 Waveform Gain (WF01)
0
(----)
1000
(CHR1)
0
(----)
10
(DT1R)
100
(US/F)
1200
4775
-CSG-
4800


4825
4850
4875
TENS
GR
WCI1
WFG1
DT1
DT1R
CHR1
DT1R



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

Gamma Ray (GR)
0 (GAPI) 150

Tension (TENS)
10000 (LBF) 1000

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)
100 (US/F) 1200

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
100 (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	75	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	600	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	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	B1-5K	
SLL1	STC Slowness Lower Limit - Lower Dipole	60	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	400	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	11600	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		
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: 14-Oct-2002 14:52

OP System Version: 10C0-306

MCM

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

Input DLIS Files

DEFAULT	FMS_DSI_042PUP	FN:53	PRODUCER	08-Oct-2002 20:12	4918.9 M	4766.6 M

Output DLIS Files

DEFAULT	FMS_DSI_069PUP	FN:85	PRODUCER	14-Oct-2002 14:52		
REDUCED	FMS_DSI_069PUP	FN:86	PRODUCER	14-Oct-2002 14:52		

Input DLIS Files

DEFAULT	FMS_DSI_041PUP	FN:51	PRODUCER	08-Oct-2002 20:11	4953.0 M	4759.9 M

Output DLIS Files

DEFAULT	FMS_DSI_068PUP	FN:83	PRODUCER	14-Oct-2002 14:47	4953.0 M	4760.4 M
REDUCED	FMS_DSI_068PUP	FN:84	PRODUCER	14-Oct-2002 14:47	4953.0 M	4760.4 M

OP System Version: 10C0-306

MCM

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

PIP SUMMARY

Time Mark Every 60 S

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

SECOND PASS

Tension (TENS)
10000 (LBF) 1000

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

Gamma Ray (GR)
0 (GAPI) 150

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

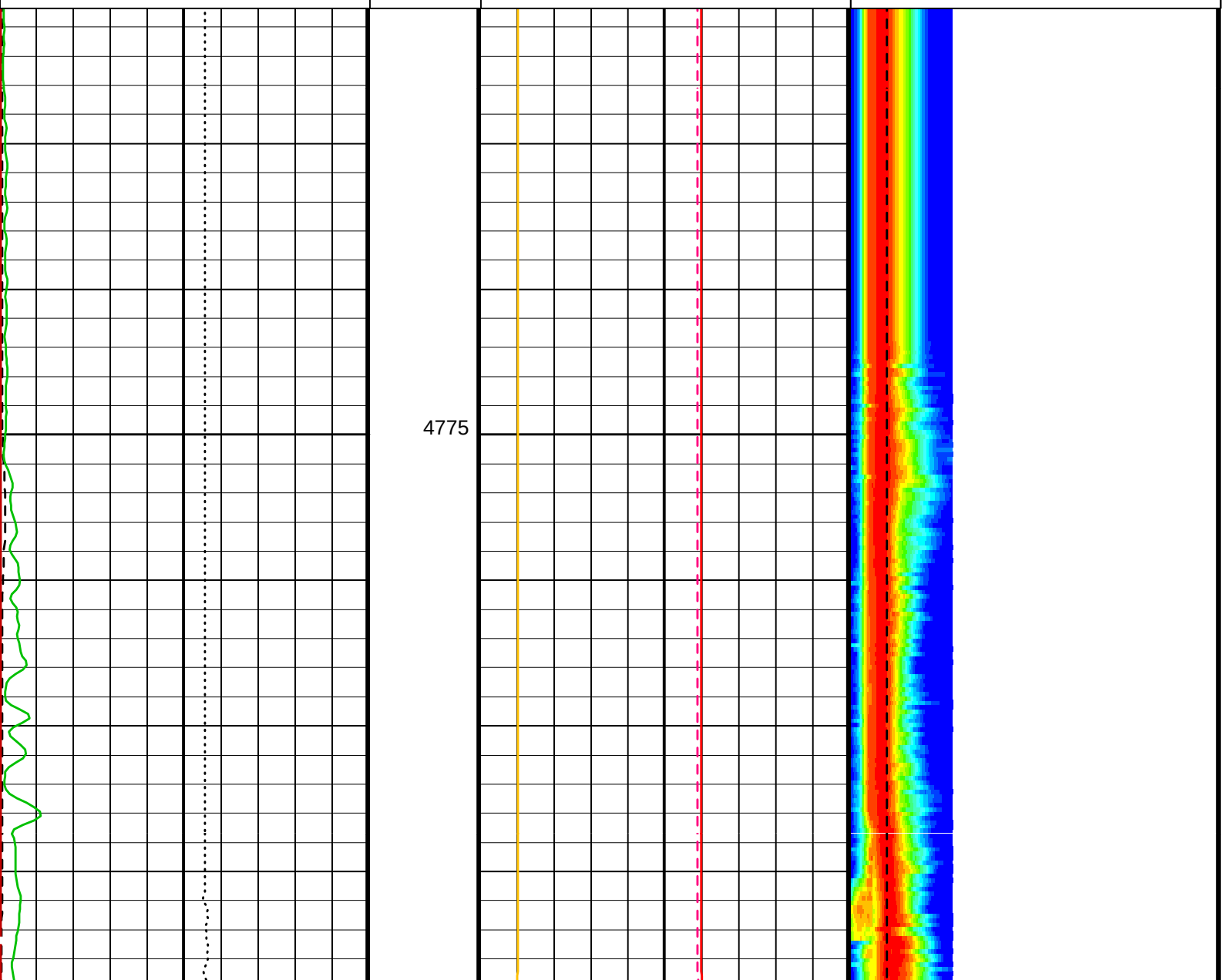
Min Amplitude Max

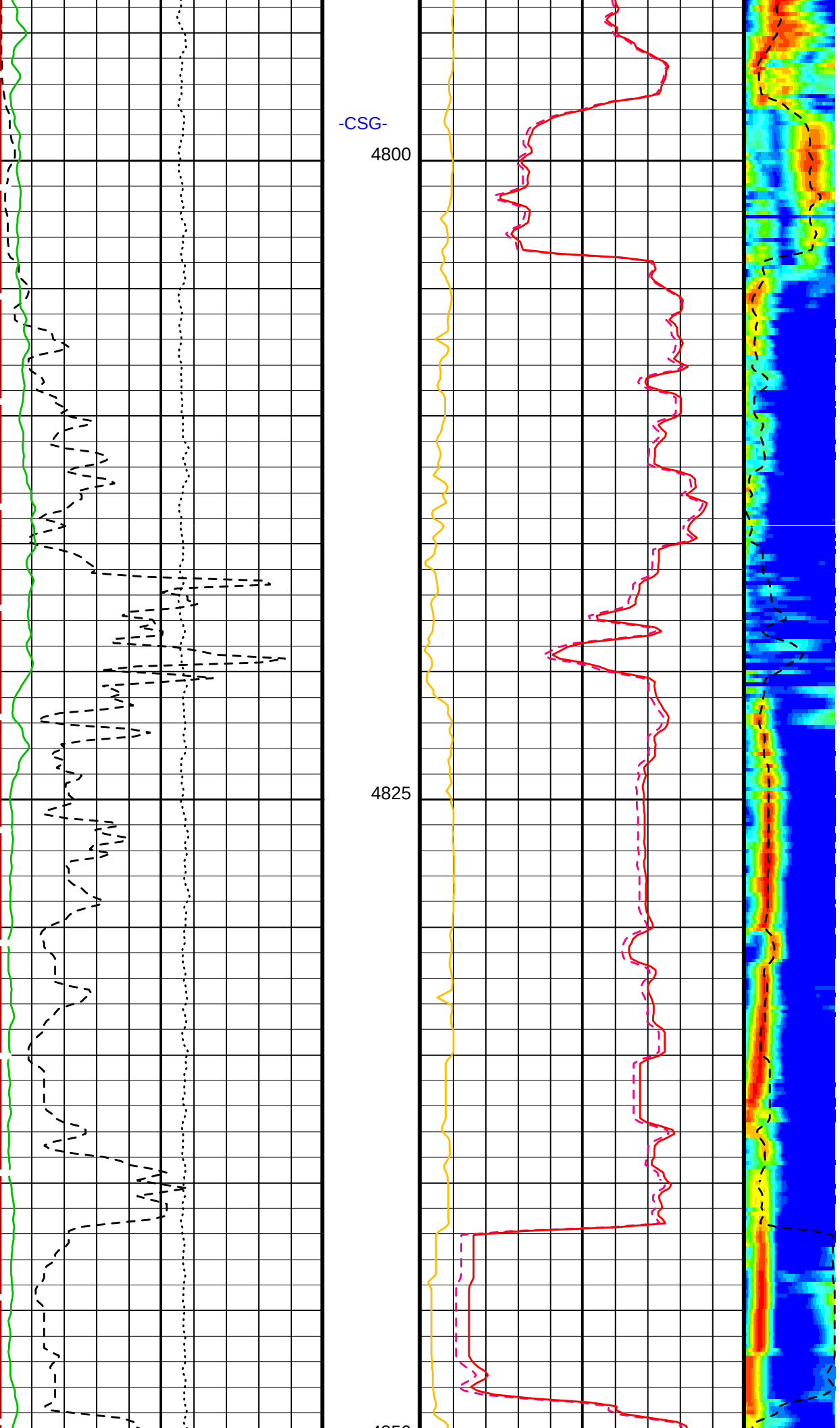
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
100 (US/F) 1200

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

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

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

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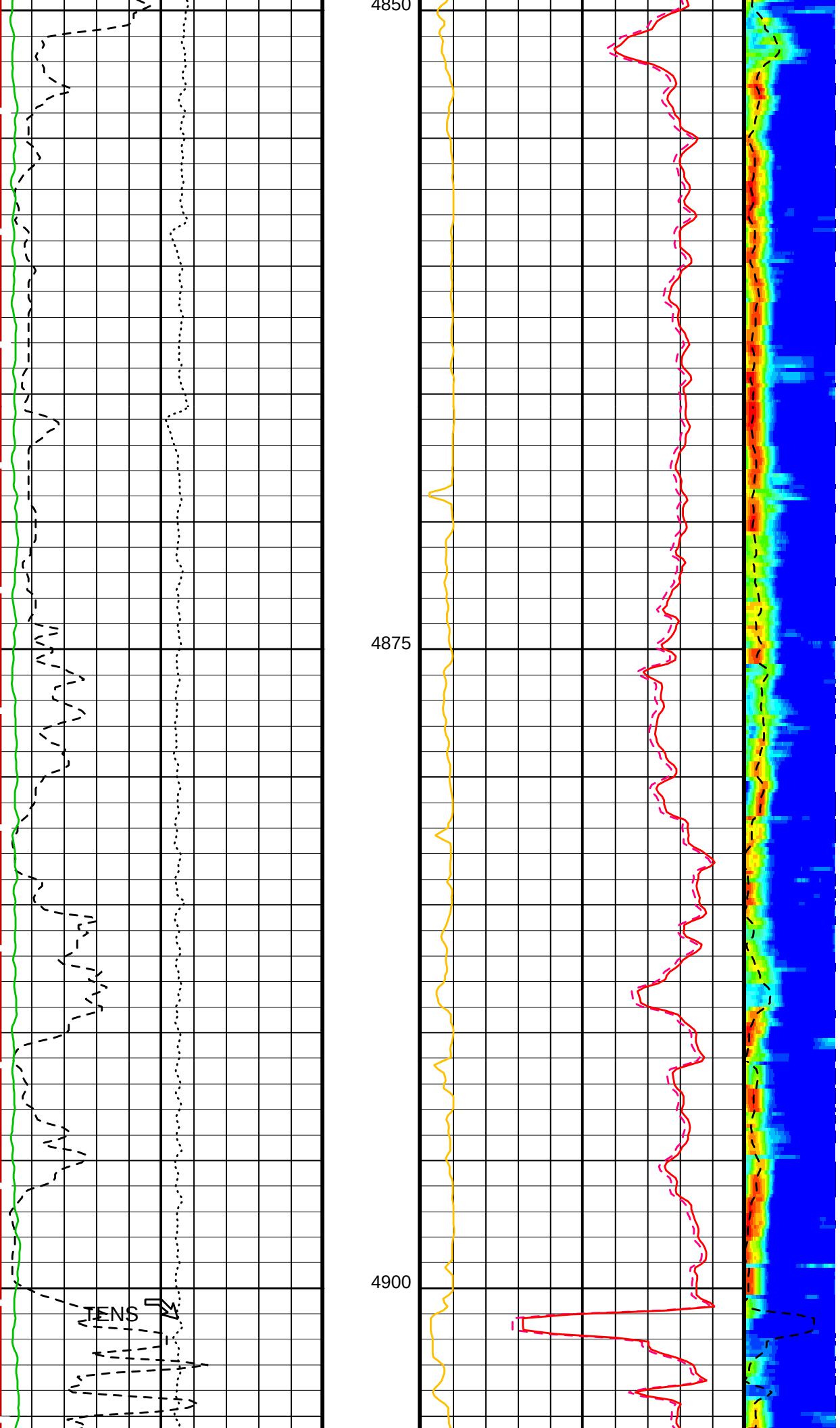
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4875
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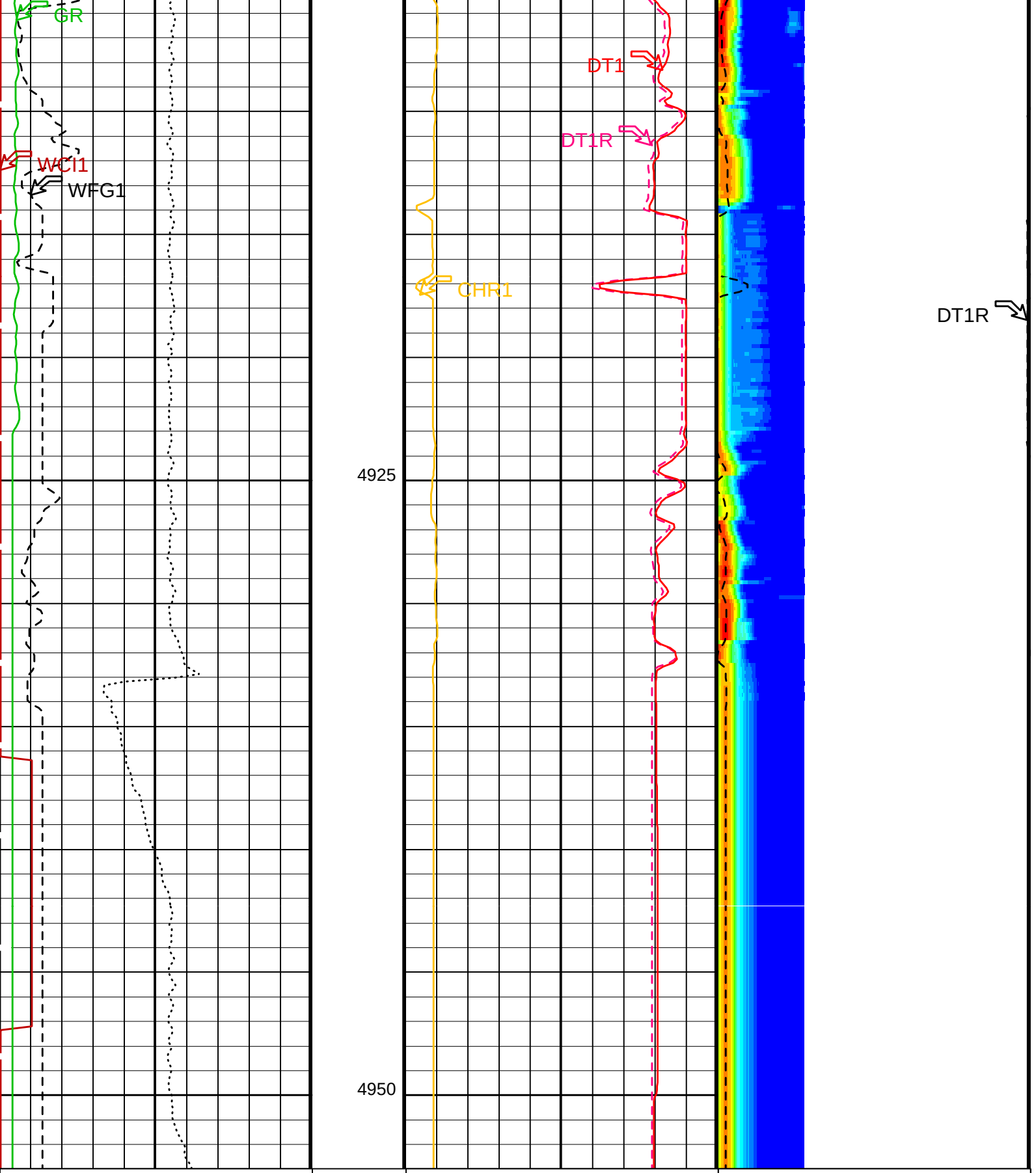
TENS



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

Gamma Ray (GR)
0 (GAPI) 150

Tension (TENS)

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)

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

Min Amplitude Max

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

10000	(LBF)	1000

440	(US/F)	40

Waveform Data Copy Indicator 1 - Lower Dipole (WCI1)

0	(----)	10

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	600	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	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	B1-5K	
SLL1	STC Slowness Lower Limit - Lower Dipole	60	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	400	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	11600	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		
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: 14-Oct-2002 14:47

OP System Version: 10C0-306

MCM

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

Input DLIS Files

DEFAULT	FMS_DSI_041PUP	FN:51	PRODUCER	08-Oct-2002 20:11	4953.0 M	4759.9 M

Output DLIS Files

DEFAULT	FMS_DSI_068PUP	FN:83	PRODUCER	14-Oct-2002 14:47
REDUCED	FMS_DSI_068PUP	FN:84	PRODUCER	14-Oct-2002 14:47

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) Wellsite Calibration - Caliper Calibration							
Before: 13-Sep-2002 12:17							
Caliper 1 Zero Measurement	8.000	N/A	8.088	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	8.000	N/A	7.517	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	12.00	N/A	12.21	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	12.00	N/A	11.78	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 14-Sep-2002 12:43							
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: 14-Sep-2002 12:43							
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: 14-Sep-2002 13:45							
Gamma Ray (Jig - Bkg)	161.7	N/A	161.7	N/A	N/A	14.70	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
MEST Preamplifier Cartridge - AB	MEPC - AB
GPIT Cartridge - A	GPIC - A
MEST Acquisition Cartridge - A	MEAC - A
Auxiliary Equipment:	
MEST-B Preamplifier Cartridge Housing	MEPH - A
MEST Acquisition Cartridge Housing (Slim	MEAH - B

Scintillation Gamma-Ray - N / Equipment Identification

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

Scintillation Gamma-Ray - N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value
Before		4.749
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)	

Phase	Gamma Ray (Jig - Bkg) GAPI	Value
Before		161.7
	147.0 (Minimum) 161.7 (Nominal) 176.4 (Maximum)	

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

Before: 14-Sep-2002 13:45

Company:	Lamont Doherty Earth Observatory
Well:	ODP Leg 205, Site 1253A
Field:	Costa Rica
Ocean:	Pacific
Country:	Costa Rica

Schlumberger

Dipole Shear Sonic Tool

Gamma Ray