

COMPANY: Lamont Doherty

WELL: ODP Leg 193, Site 1188F (PCM-2A)

FIELD: Manus Basin, Snowcap

COUNTY: Offshore STATE: Bismarck Sea



Dipole Sonic, Stonely and P&S
Natural Gamma Ray

COUNTY: Offshore
Field: Manus Basin, Snowcap
Location: ODP Leg 193, Site 1188F (PCM-2A)
Company: Lamont Doherty

LOCATION		Elev.: K.B. 11.3 m G.L. -1653 m D.F. 11 m
Permanent Datum:	MSL	Elev.: 0 m
Log Measured From:	Drill Floor	11.0 m above Perm. Datum
Drilling Measured From:	Drill Floor	
API Serial No.	LATITUDE: 03° 43.6850' S	LONGITUDE: 151° 40.1909' E
		RIG: JOIDES Resolution

Logging Date	21-DEC-2000
Run Number	1
Depth Driller	2039.7 m
Schlumberger Depth	2008 m
Bottom Log Interval	1998 m
Top Log Interval	1652 m
Casing Driller Size @ Depth	0.000 in @ 1843 m
Casing Schlumberger	1843 m
Bit Size	7.250 in
Type Fluid In Hole	Seawater
Density	1.1 g/cm3
Fluid Loss	PH
Source Of Sample	Seawater
RM @ Measured Temperature	0.180 ohm.m @ 30 degC
RMF @ Measured Temperature	0.235 ohm.m @ @
RMC @ Measured Temperature	@ @
Source RMF	RMC
RM @ MRT	0.078 @ 98 @ 98 @
Maximum Recorded Temperatures	98 degC
Circulation Stopped	Time 20-Dec-2000 22:00
Logger On Bottom	Time 21-DEC-2000 17:00
Unit Number	99 Location Houston ODP
Recorded By	Kerry M. Swain
Witnessed By	Gerardo Iturrino, Anne Bartetzko

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			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature		@	
RMF @ Measured Temperature		@ @	
RMC @ Measured Temperature		@ @	
Source RMF		RMC	
RM @ MRT		@ @ @ @	
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

Run 1

Run 2

Run

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 OS1: FMS OS2: DITE OS3: APS/HLDS OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
HGTC (HighTemp/High Pressure Gamma Ray Telemetry Cartridge) used for Temperature with LEH-QO head and MTEM sensor.	
Log presented in meters below rig floor. Sea floor at 1652 mbrf.	
Wireline heave compensator used on all descents.	
Sea water used as mud in hole.	
Log TD at 2008 mbrf and tool could not reach drillers depth of 2039.7 mbrf.	
Maximum temperature recorded from MTEM sensor in head.	
Toolstring-MEST/NGTC/DTA/CMEAY/DSSTB/CMEAY/HGTC/LEHQO	
DSI Centralized with 2 CMEAY's.	
Pass 1 logged with Cross Dipole, Stonely, P&S	
Pass 2 logged with Stonely, P&S, lower dipole-low frequency.	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		9C1-303	PROGRAM VERSION:		
FLUID LEVEL:		0 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
GSR-U WITM (DTS)-A	

RUN 1	RUN 2
DOWNHOLE EQUIPMENT	
LEH-MT LEH-MT 1	33.85
HTGC-B UDFH-KL 1062 STGC0-A 8038 STGC1-BH 8038 MTEM 1	32.89
Mud Tempe	32.89
Gamma Ray	31.87
CTEM	31.00

TelStatus — 29.64

AH-CMEAY
AH-CMEAY 765

29.64

DSST-B
SPAC-B 18
ECH-SD 18
SMDR-BD 8070
SSIJ-BA 65
SMDX-AA 8026

28.35

PWF — 12.81

AH-CMEAY
AH-CMEAY 764

12.81

DTA-A
ECH-KE 8231

11.52

NGT-C
NGD-A 1736
NGH-B 3
NGC-C 1921
NGCH-A 752

Detector — 9.92

10.30

MEST-B
MEAH-B 701
MEAC-A 833
MEPH-A 701
GPIC-A 719
MEPC-AB 807
MEDS-B 702

7.68

MEDR MEAC
MEPC MEDS-B
ACCZ HV DF
Tension GPIT

0.46
0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 3.75 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Output DLIS Files

DEFAULT	MESTB .032	FN:58 PRODUCER	21-Dec-2000 17:55	2009.2 M	1640.3 M
LAMONT	MESTB .032	FN:59 PRODUCER	21-Dec-2000 17:55	2009.2 M	1640.3 M

OP System Version: 9C1-303

MCM

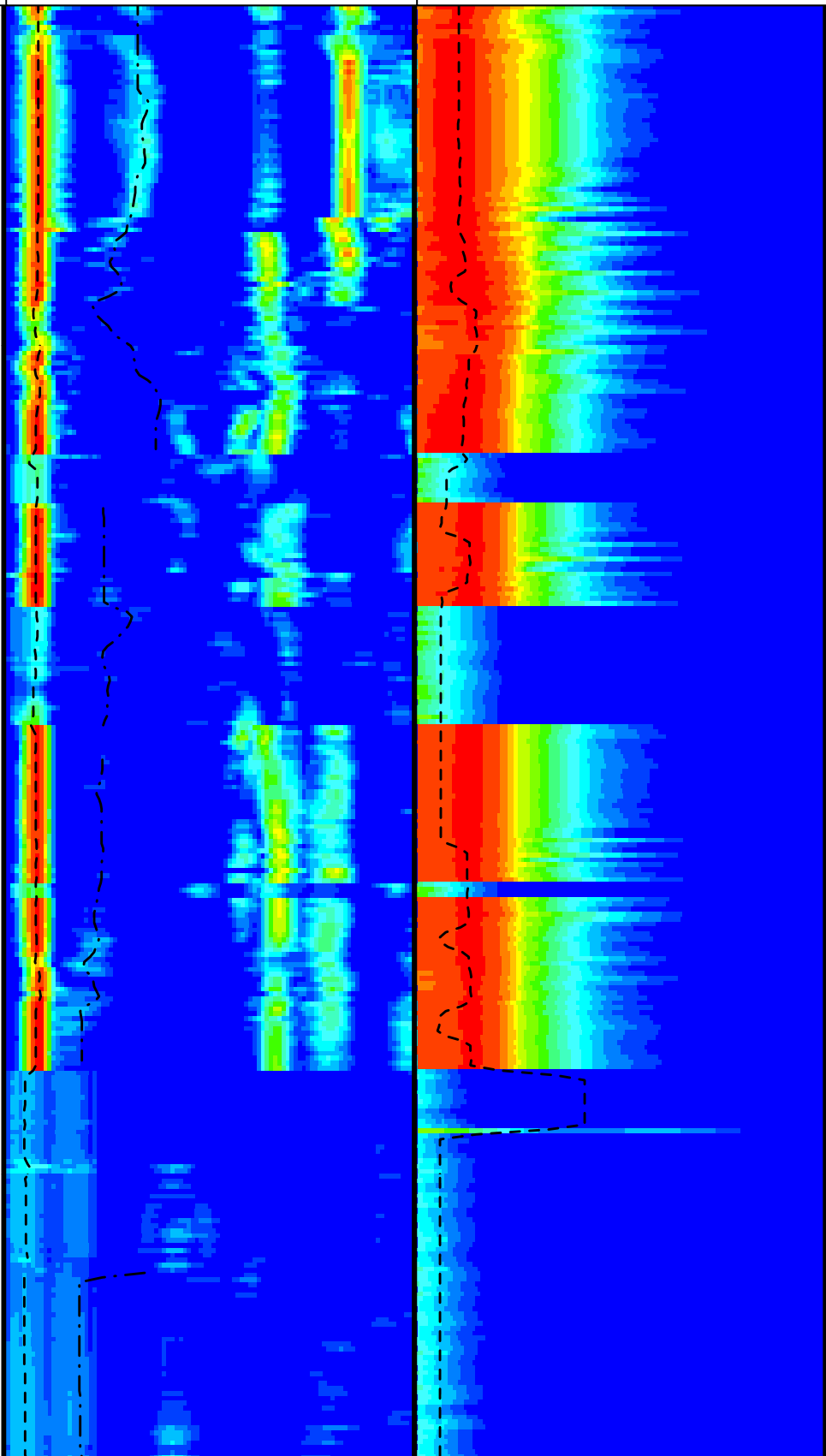
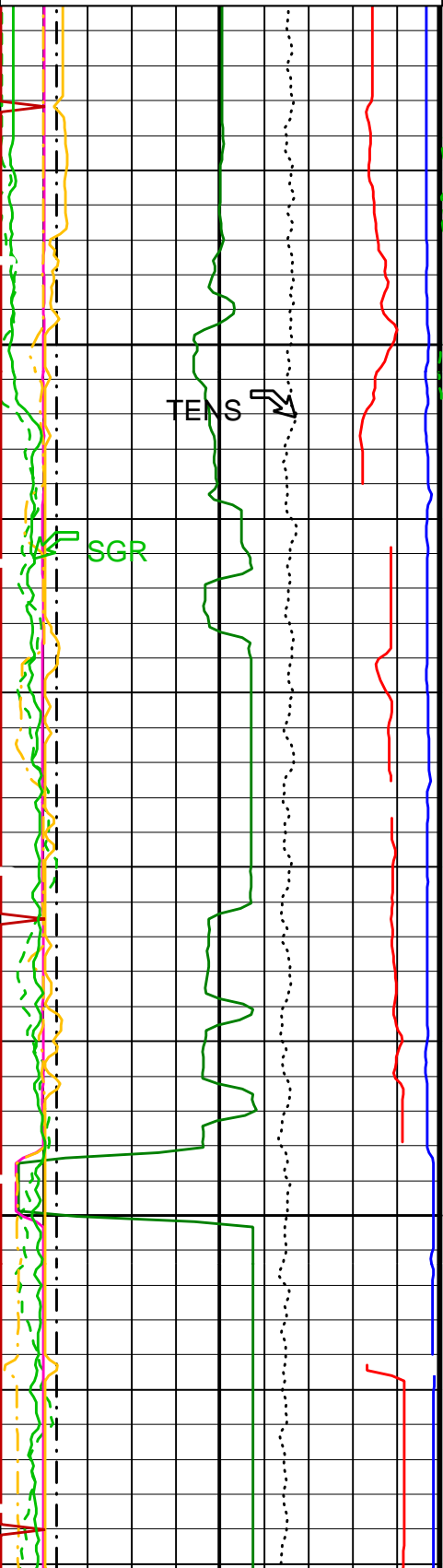
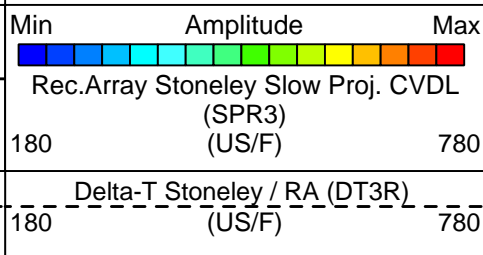
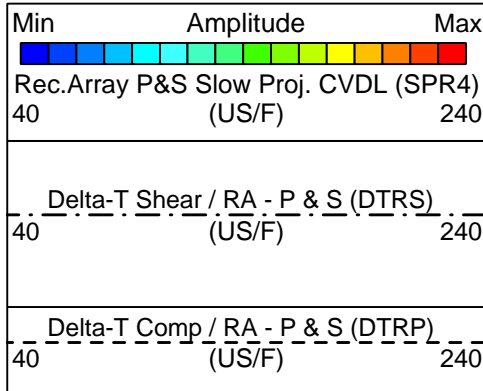
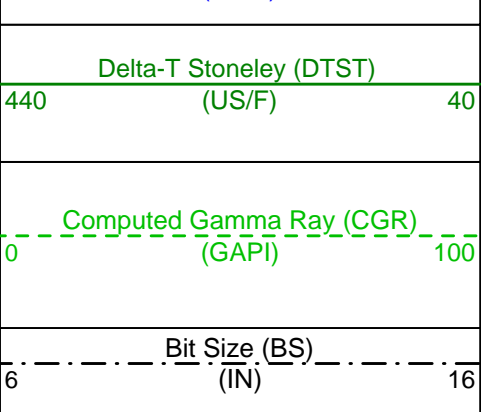
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DTA-A	OP91-kp2	DSST-B	OP91-kp2
HTGC-B	OP91-kp2		

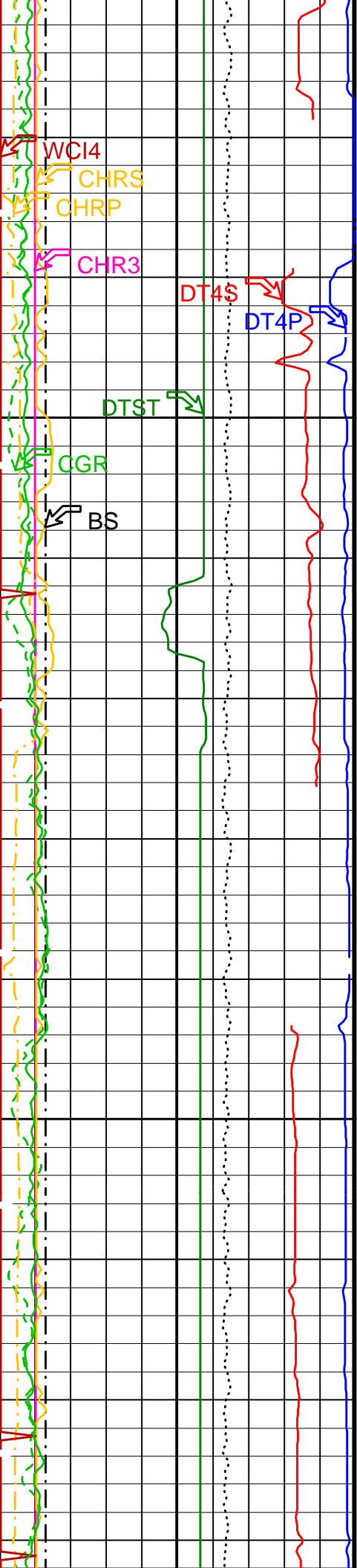
PIP SUMMARY

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
Tension (TENS)		
10000	(LBF)	0
Spectroscopy Gamma Ray (SGR)		
0	(GAPI)	150
Peak Coherence / RA - Stoneley (CHR3)		
0	(---)	10
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40
Delta-T Comp - P & S (DT4P)		
440	(US/F)	40

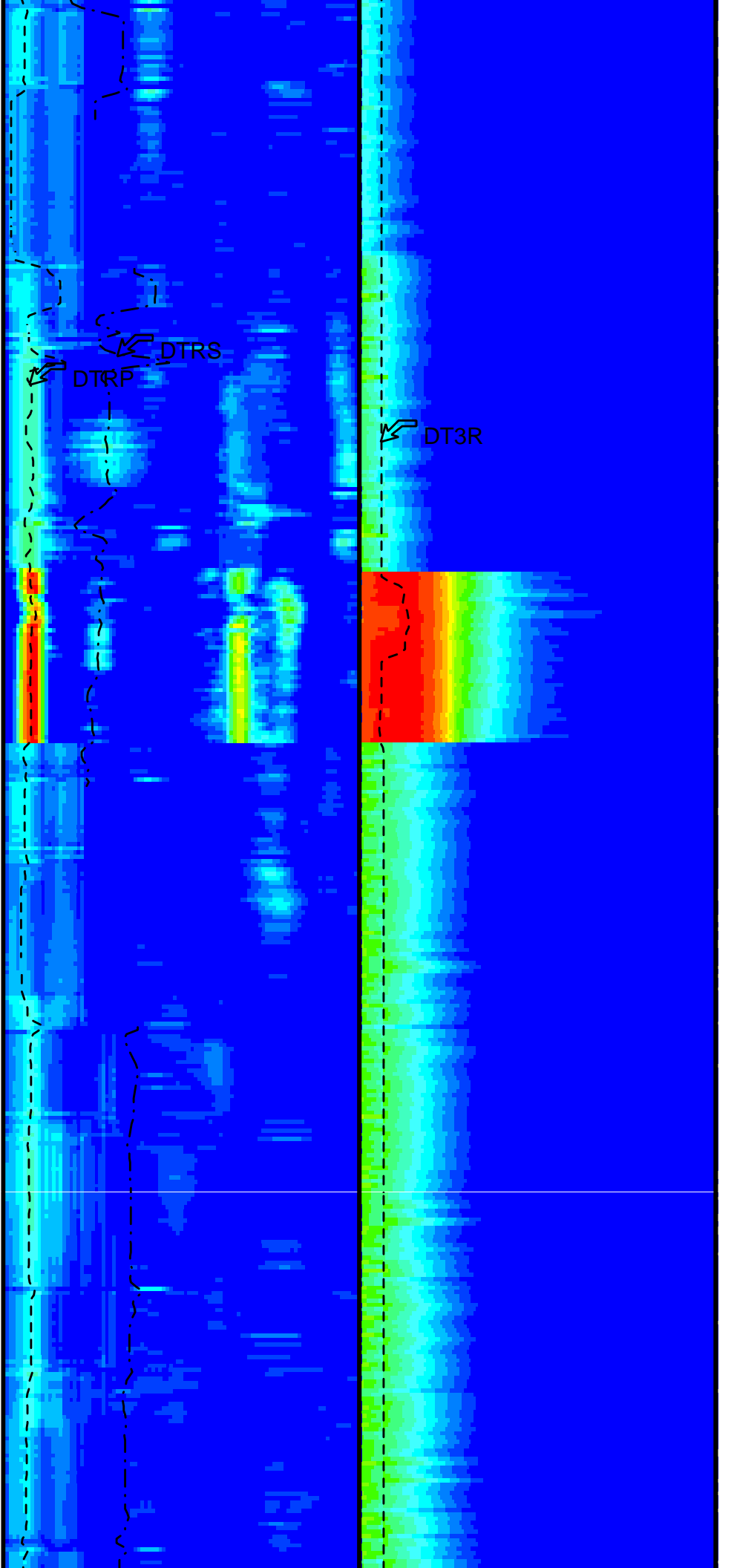
PASS 2 UPLOG

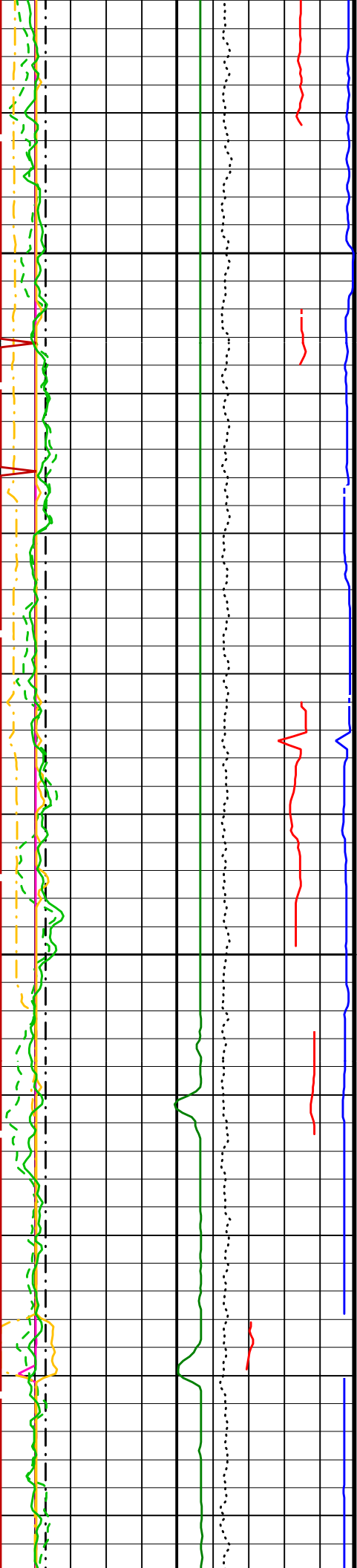




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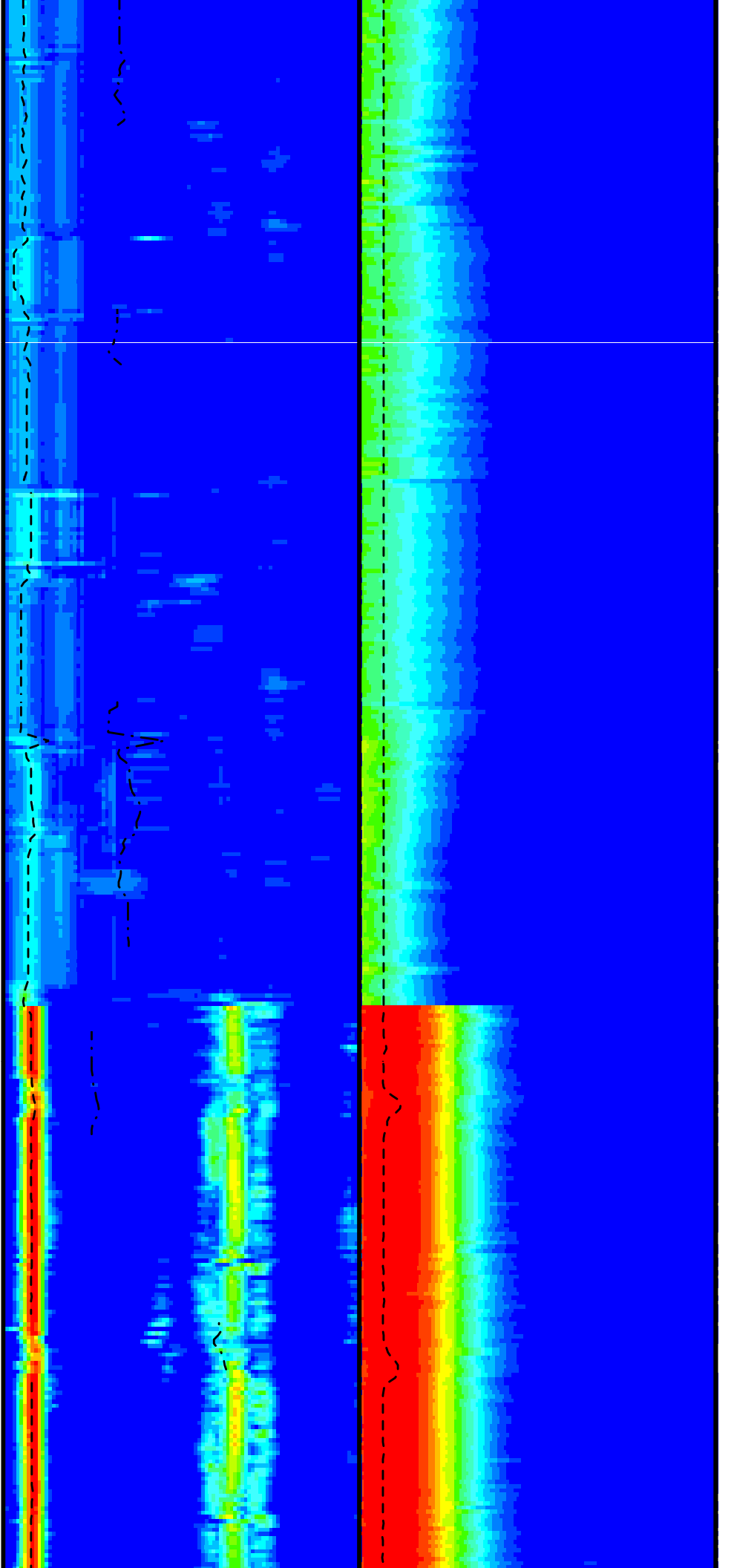
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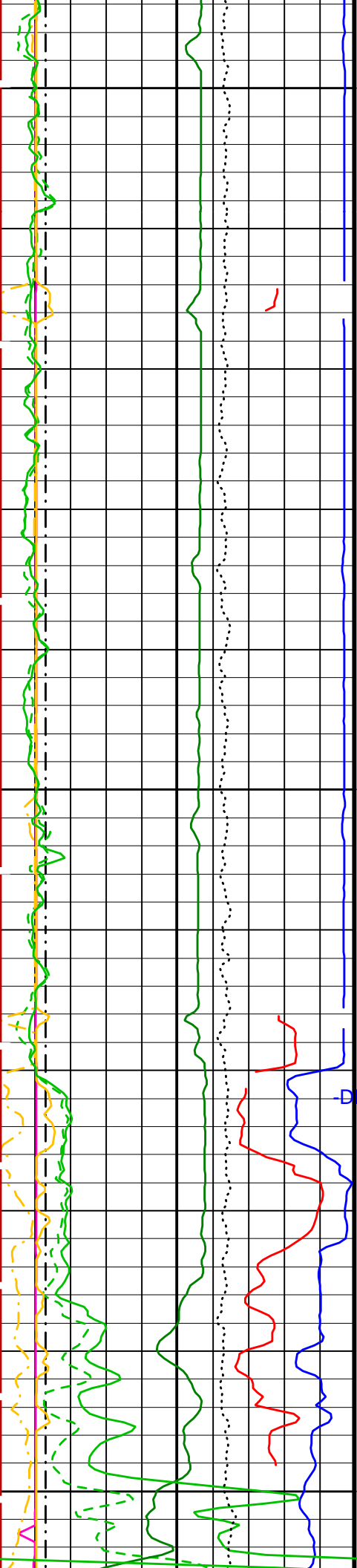




1750

1775





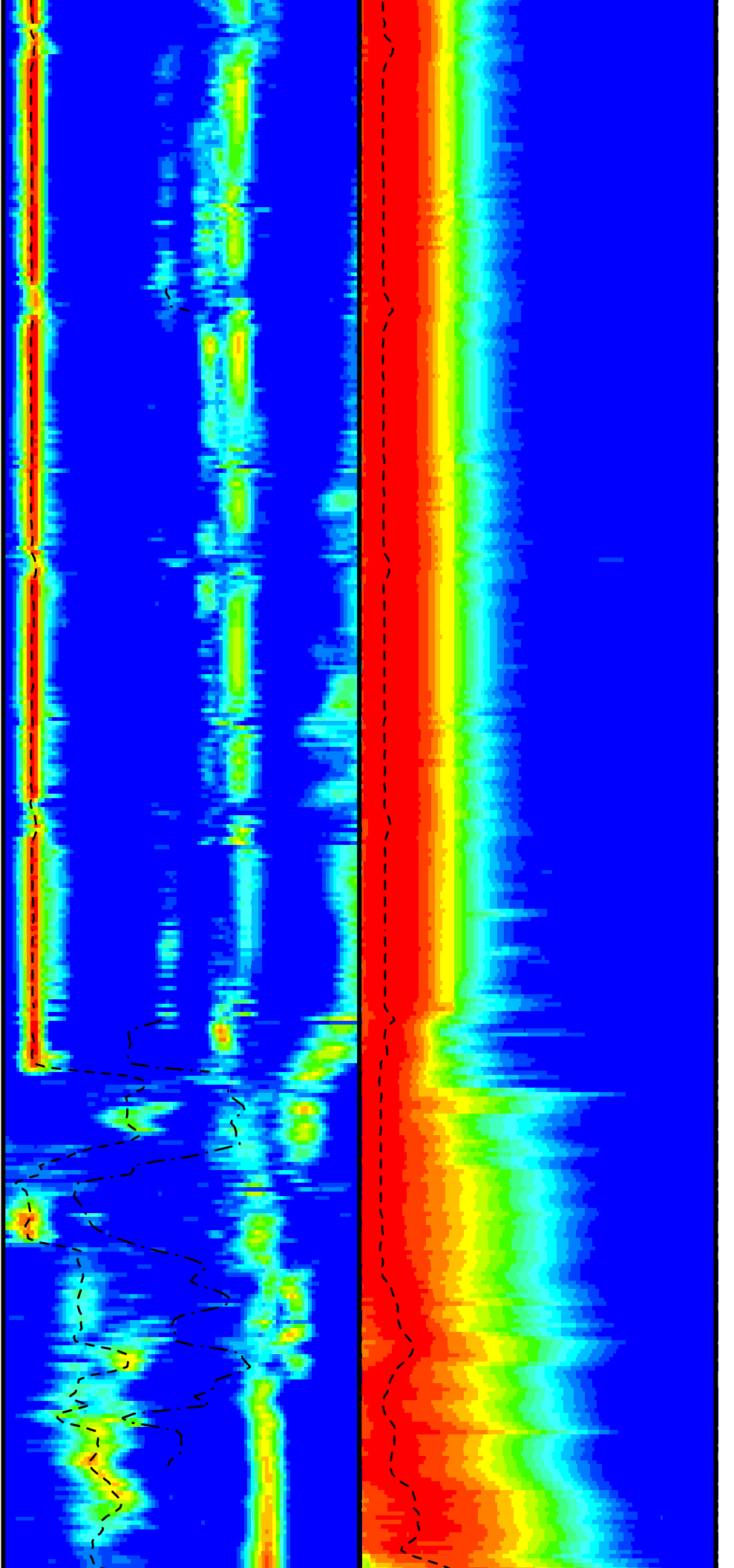
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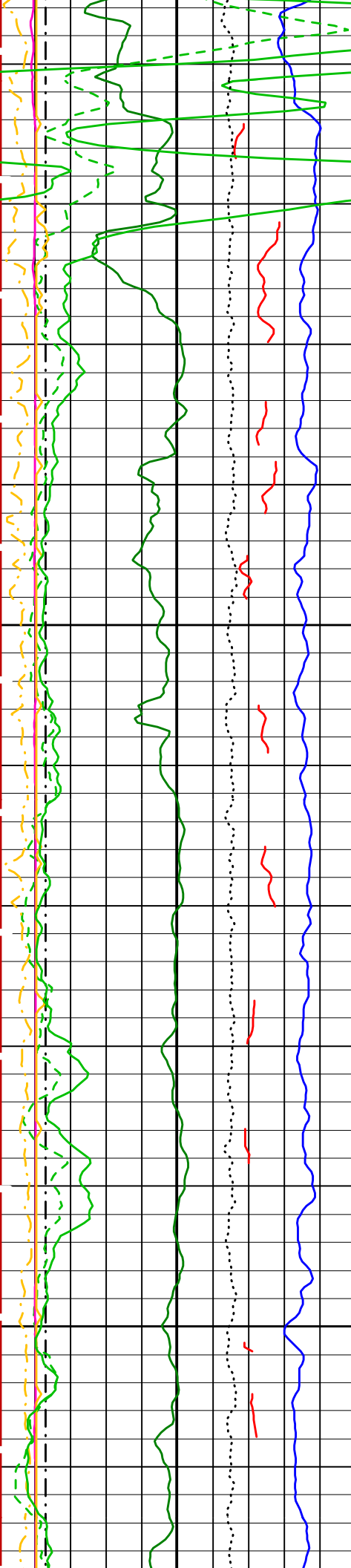
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1850

-DRILL PIPE-

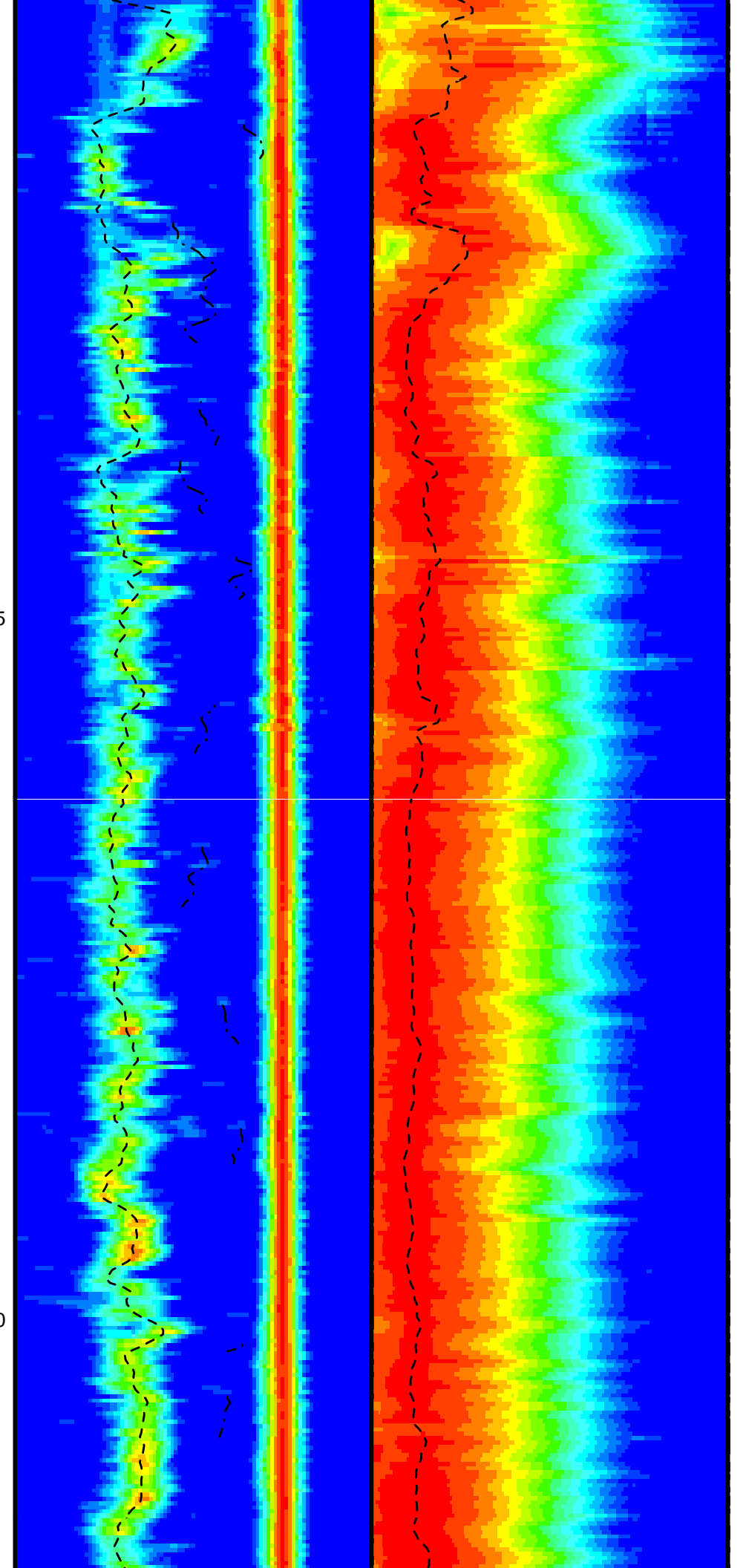
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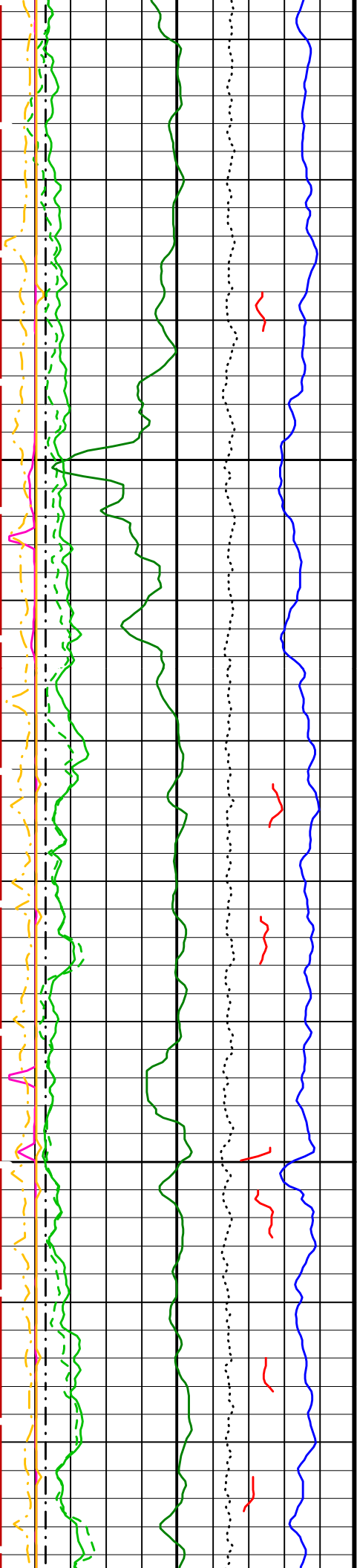




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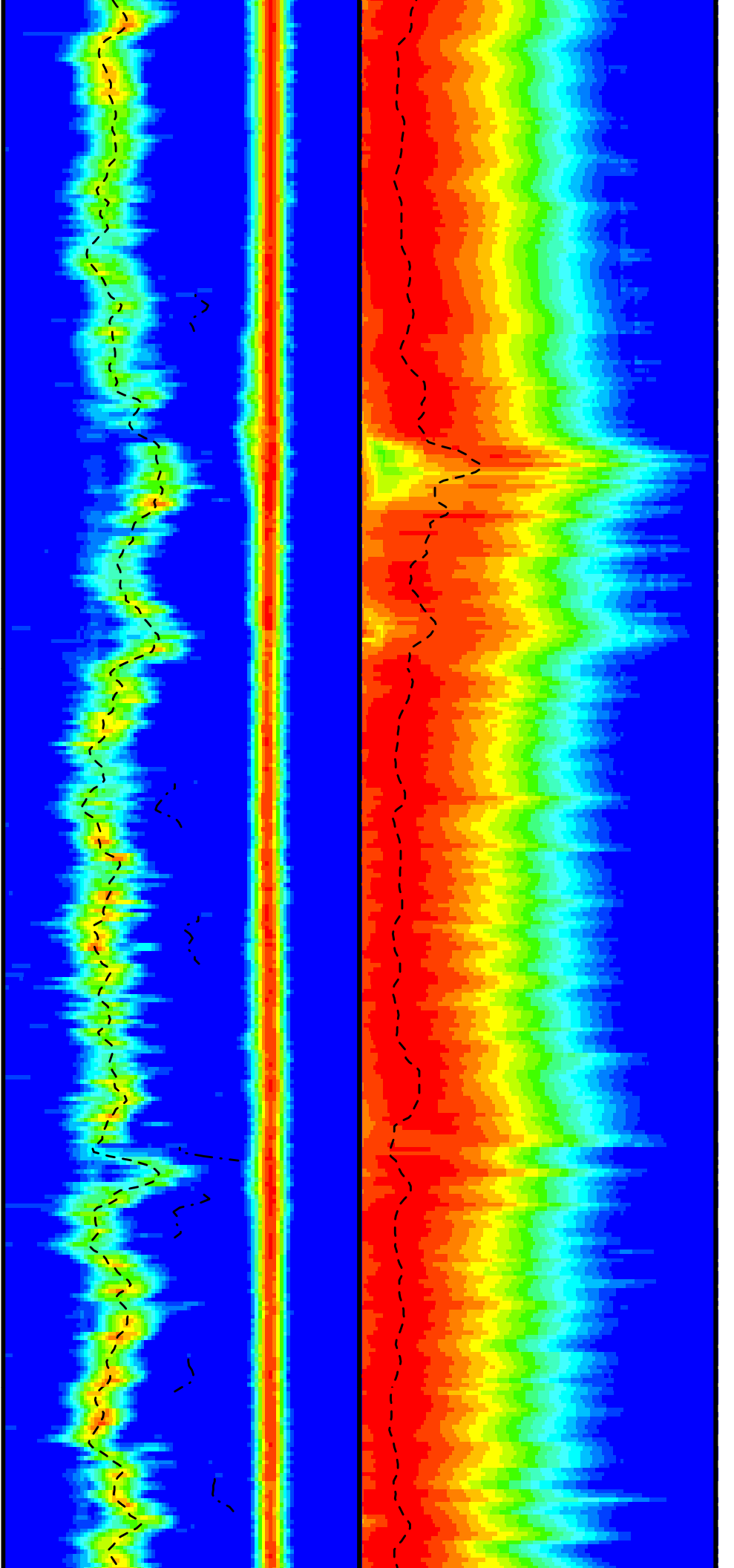
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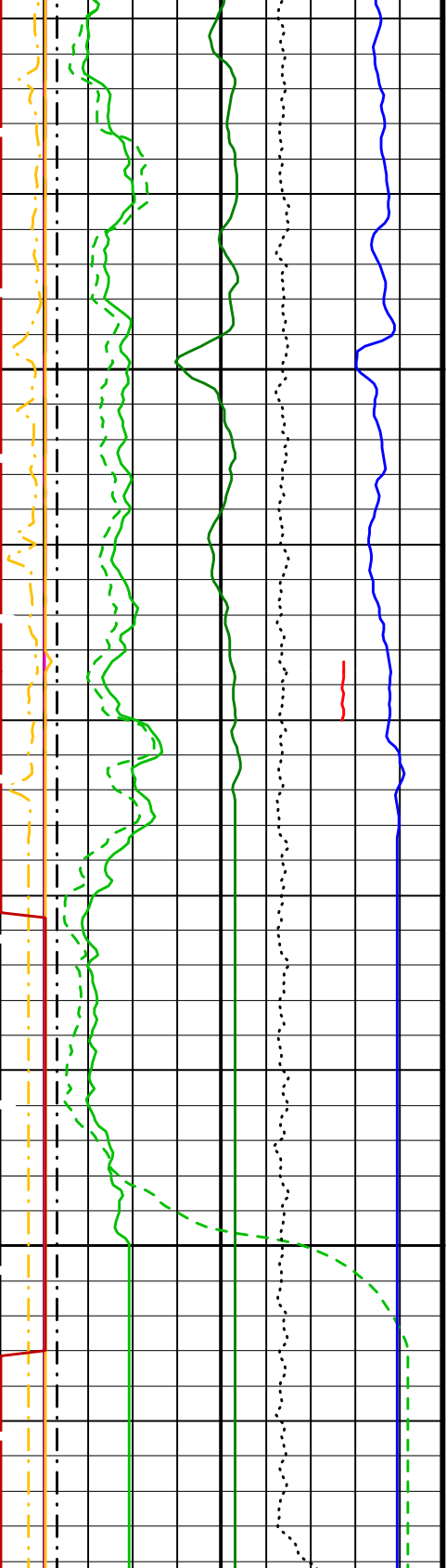




1925

1950





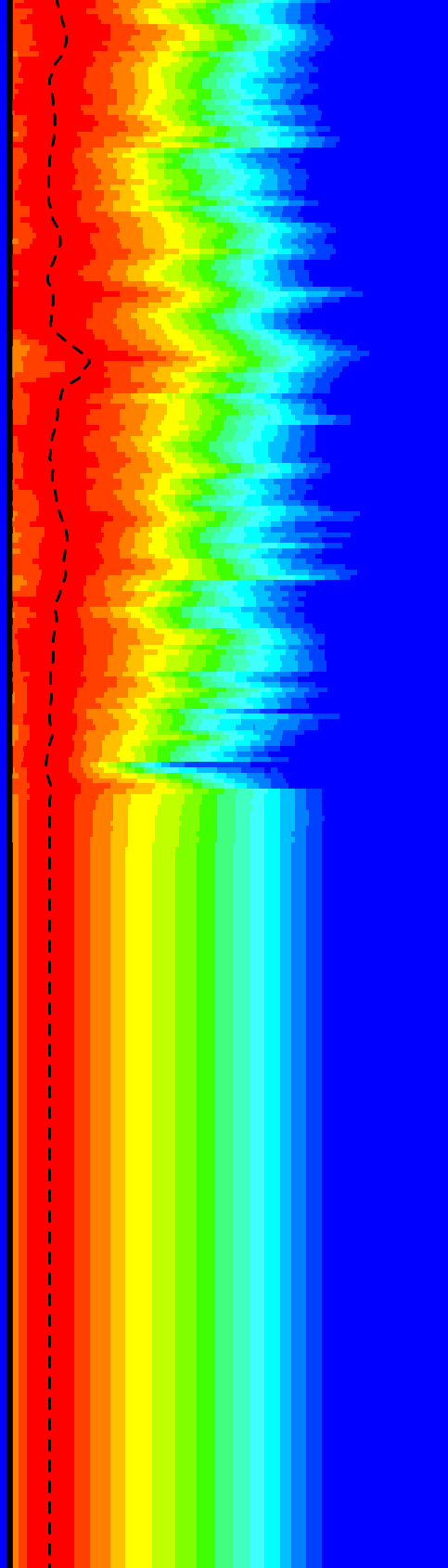
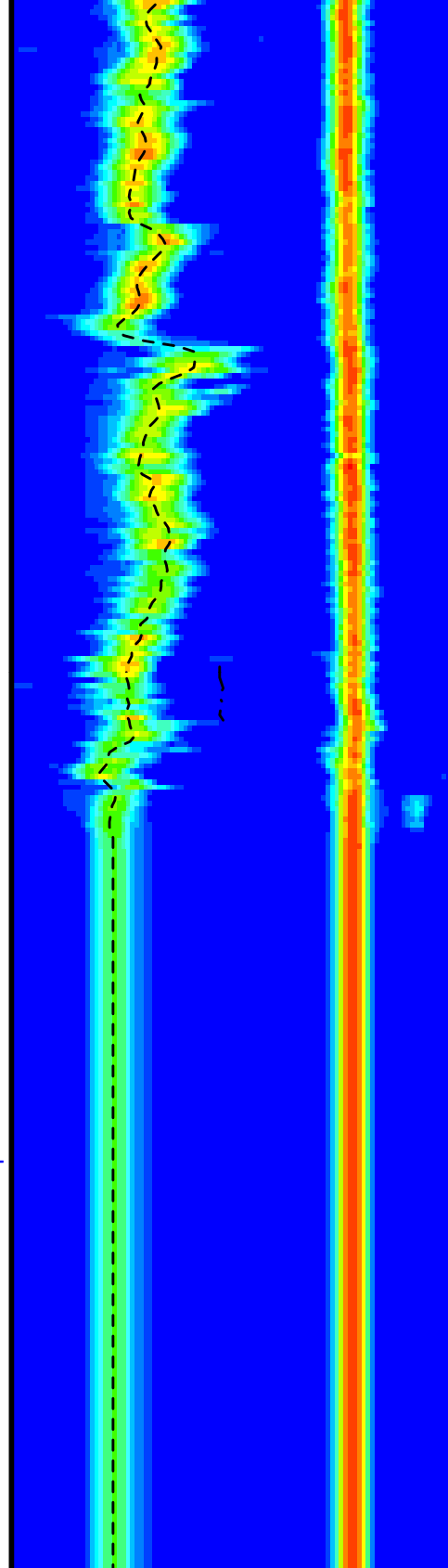
1975

FR DSI-

-FR NGT

2000

-TDL-



Bit Size (BS)
(IN) 6 16

Computed Gamma Ray (CGR)
(GAPI) 0 100

Delta-T Stoneley (DTST)
(US/F) 440 40

Delta-T Comp - P & S (DT4P)

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

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

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

Delta-T Stoneley / RA (DT3R)
(US/F) 180 780

Min Amplitude Max

Rec.Array Stoneley Slow Proj. CVDL (SPR3)
(US/F) 180 780

440	(US/F)	40
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40
Peak Coherence / RA - Stoneley (CHR3)		
0	(----	10
Spectroscopy Gamma Ray (SGR)		
0	(GAPI)	150
Tension (TENS)		
10000	(LBF)	0
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

PASS 2 UPLOG

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
BHS	Borehole Status	OPEN	
BS	Bit Size	7.250	IN
CASF	Label Casing Function - Monopole P&S	50	
CBAR	Constant Barite	1	
CGMI	Spectro Computed Gamma Ray Minimum	0	GAPI
CGSH	Spectro Computed Gamma Ray Shale	100	GAPI
COLL	Label Slowness Upper Limit - Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	US/F
DDE3	Digitizing Delay 3	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DFD	Drilling Fluid Density	1.02	G/C3
DSI3	Digitizer Sample Interval 3	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
DWC3	Digitizer Word Count 3	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
KMIN	Potassium Minimum	0	
KSHA	Potassium Shale	0.02	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NFO	NGT Filtering Option	KALMAN	
PMUD	Potassium Mud	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
SAM3	DSST Sonic Acquisition Mode 3 - Low Frequency Monopole Mode for Stoneley	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	
SAS3	STC Sonic Array Status - Monopole Stoneley	255	

SAS4	STC Search Array Status - Monopole P&S	255	
SBO3	STC Search Band Offset - Monopole Stoneley	2000	US
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW3	STC Search Bandwidth - Monopole Stoneley	6000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC3	STC Formation Character - Monopole Stoneley	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM3	STC Filter - Monopole Stoneley	B.5-1.5K	
SFM4	STC Filter - Monopole P&S	B3-20K	
SGMI	Spectro Gamma Ray Minimum	0	GAPI
SGSH	Spectro Gamma Ray Shale	100	GAPI
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	US/F
SLL3	STC Slowness Lower Limit - Monopole Stoneley	180	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST3	STC Slowness Step - Monopole Stoneley	4	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
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
SUL3	STC Slowness Upper Limit - Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD3	STC Slowness Width - Monopole Stoneley	40	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF3	STC Time for Baseline Fill - Monopole Stoneley	0	US
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL3	STC Time Lower Limit - Monopole Stoneley	620	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TMIN	Thorium Minimum	0	PPM
TSHA	Thorium Shale	12	PPM
TST3	STC Time Step - Monopole Stoneley	200	US
TST4	STC Time Step - Monopole P&S	50	US
TUL3	STC Time Upper Limit - Monopole Stoneley	12020	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD3	STC Time Width - Monopole Stoneley	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI3	STC Integration Time Window - Monopole Stoneley	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UMIN	Uranium Minimum	0	PPM
USHA	Uranium Shale	3	PPM
WFM4	Waveform Mode 4	W1	

Format: DSST_P_S_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 21-Dec-2000 17:55

OP System Version: 9C1-303
MCM

MEST-B	OP91-kp2	NGT-C	OP91-kp2
DTA-A	OP91-kp2	DSST-B	OP91-kp2
HTGC-B	OP91-kp2		

Output DLIS Files

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LAMONT	MESTB .032	FN:59 PRODUCER	21-Dec-2000 17:55

Output DLIS Files

DEFAULT	MESTB .031	FN:56 PRODUCER	21-Dec-2000 16:59	2008.6 M	1835.7 M
LAMONT	MESTB .031	FN:57 PRODUCER	21-Dec-2000 16:59	2008.6 M	1835.7 M

OP System Version: 9C1-303
MCM

MEST-B	OP91-kp2	NGT-C	OP91-kp2
DTA-A	OP91-kp2	DSST-B	OP91-kp2
HTGC-B	OP91-kp2		

PIP SUMMARY

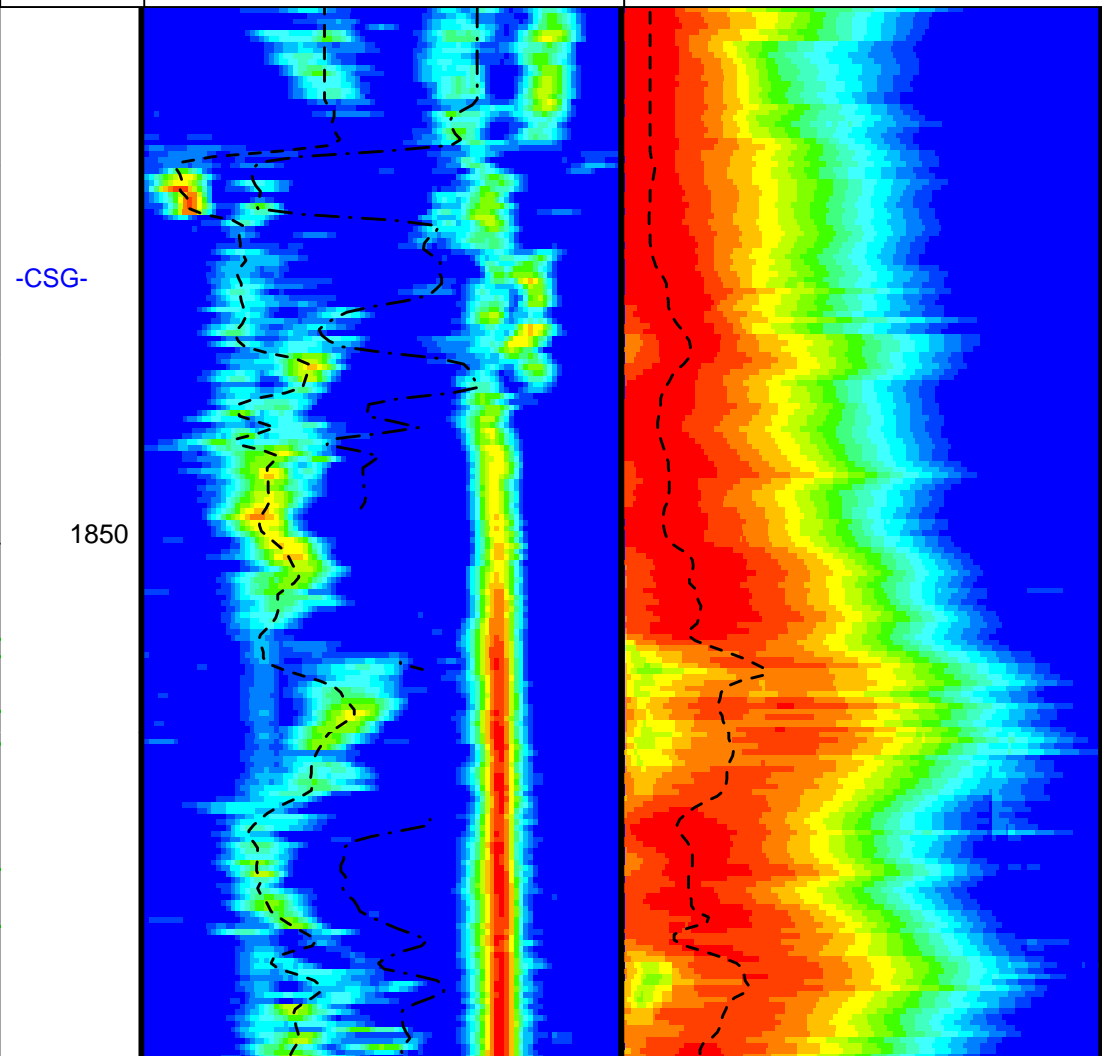
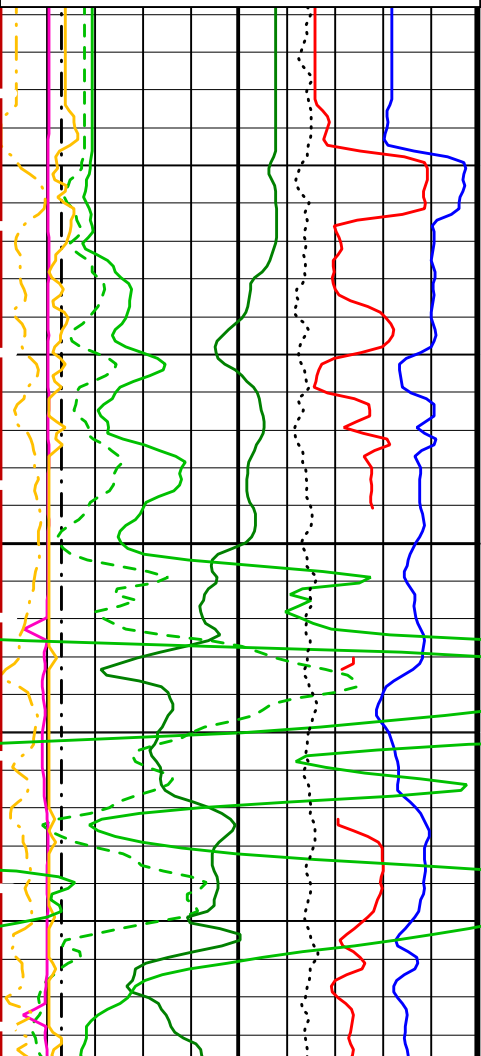
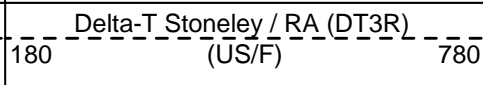
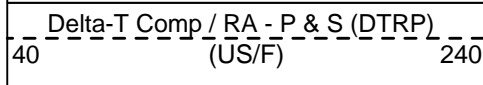
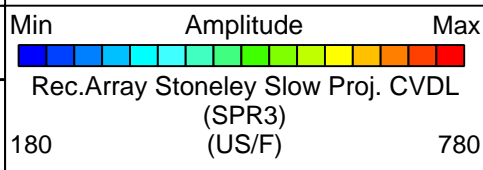
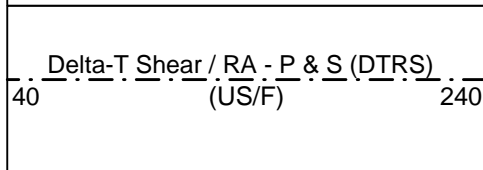
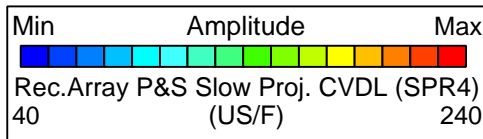
Time Mark Every 60 S

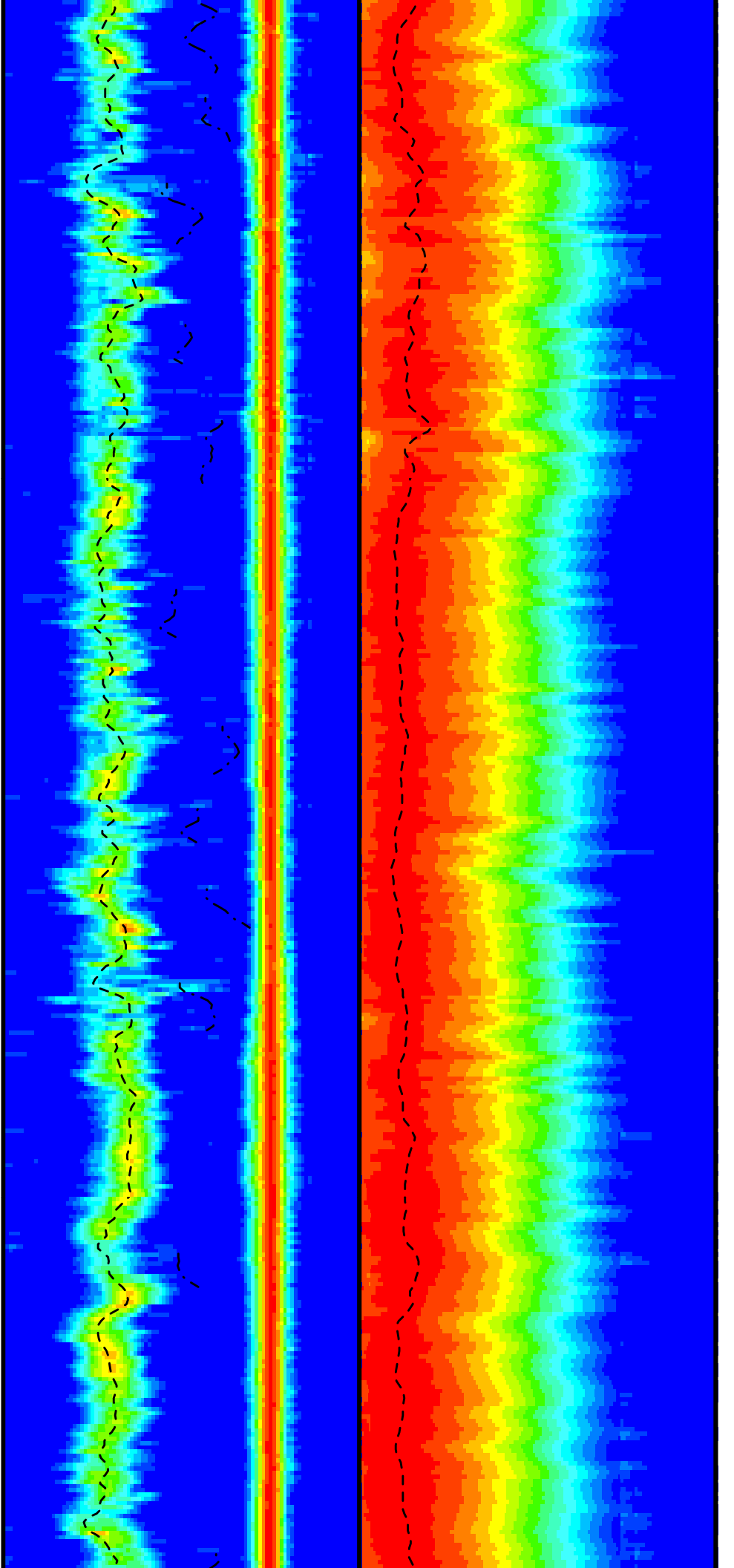
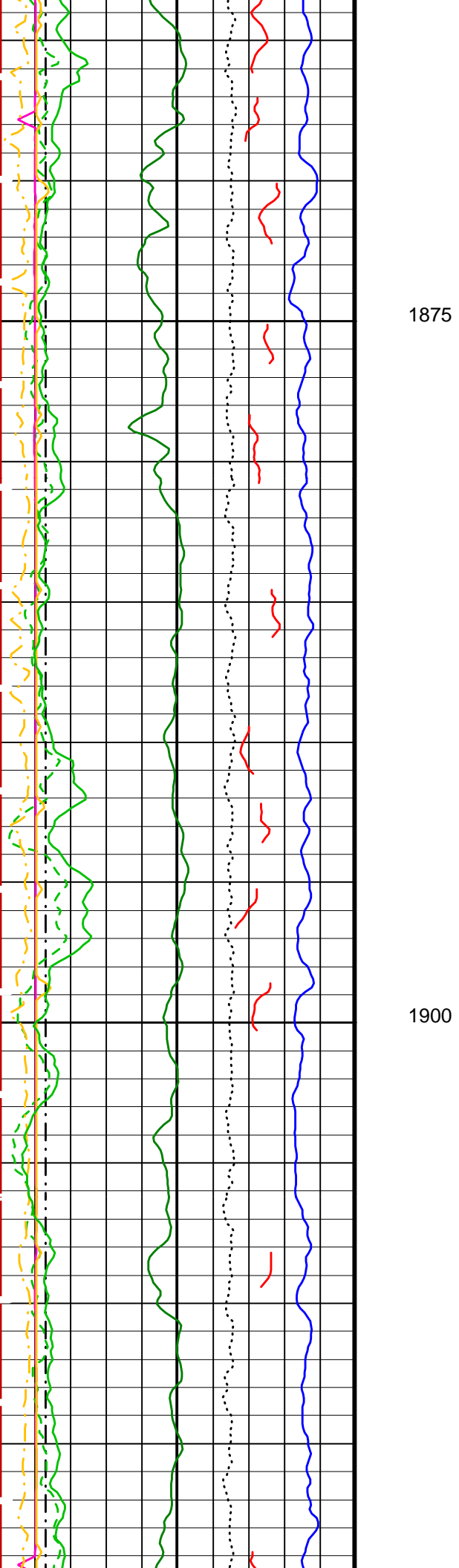
Waveform Data Copy Indicator 4 -
Monopole P&S (WCI4)

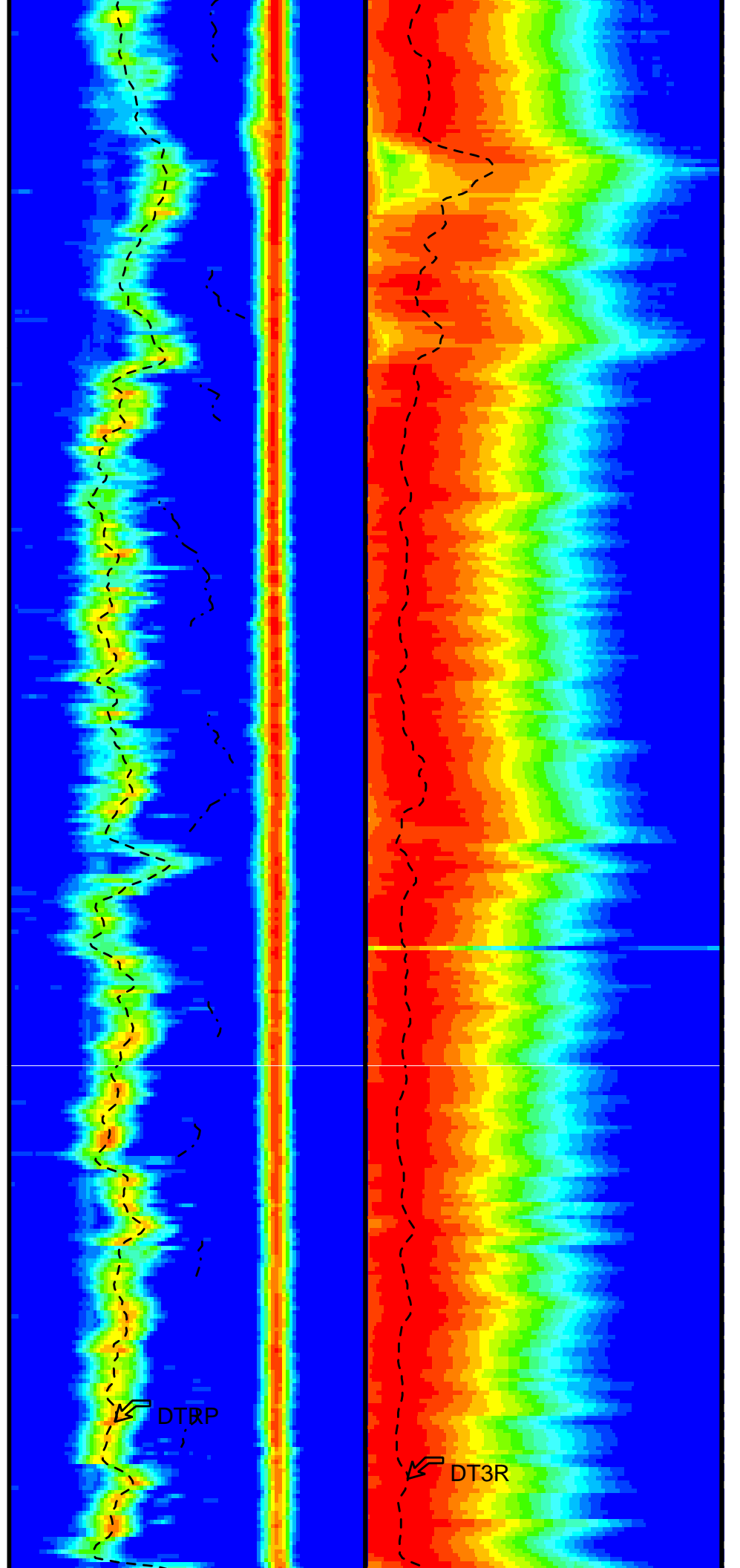
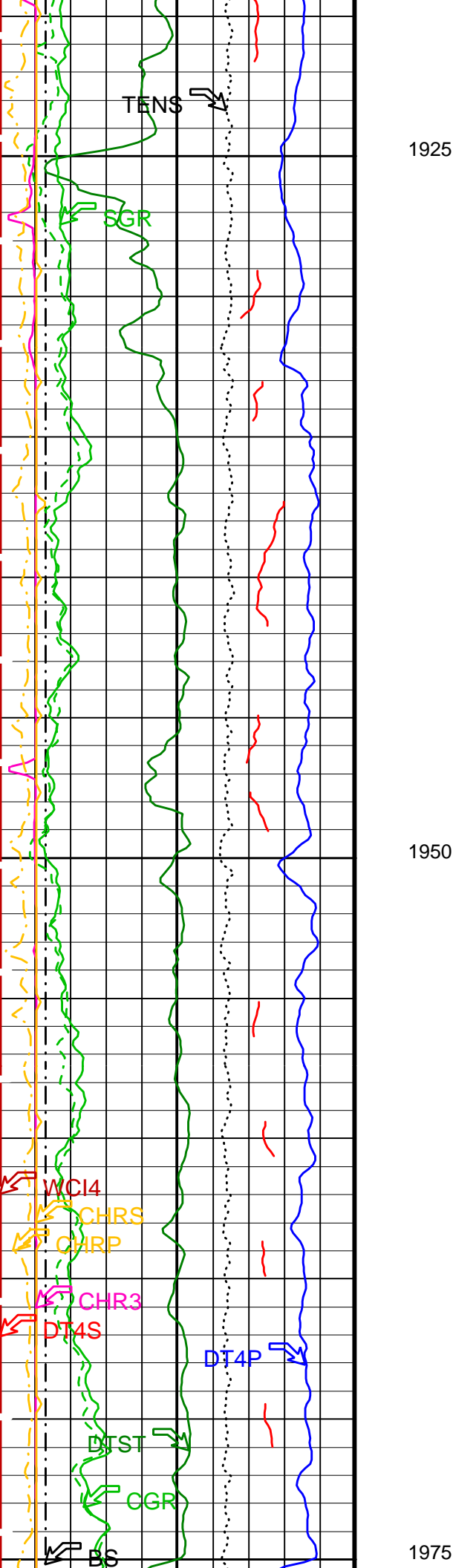
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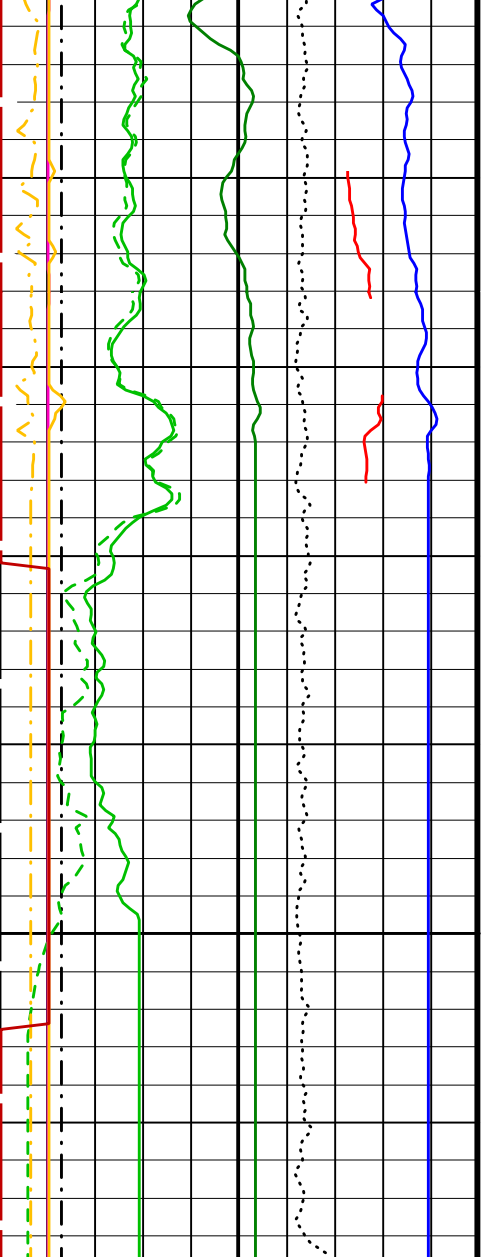
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----	10
Tension (TENS)		
10000	(LBF)	0
Spectroscopy Gamma Ray (SGR)		
0	(GAPI)	150
Peak Coherence / RA - Stoneley (CHR3)		
0	(----	10
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40
Delta-T Comp - P & S (DT4P)		
440	(US/F)	40
Delta-T Stoneley (DTST)		
440	(US/F)	40
Computed Gamma Ray (CGR)		
0	(GAPI)	100
Bit Size (BS)		
6	(IN)	16

Uplong Pass 1

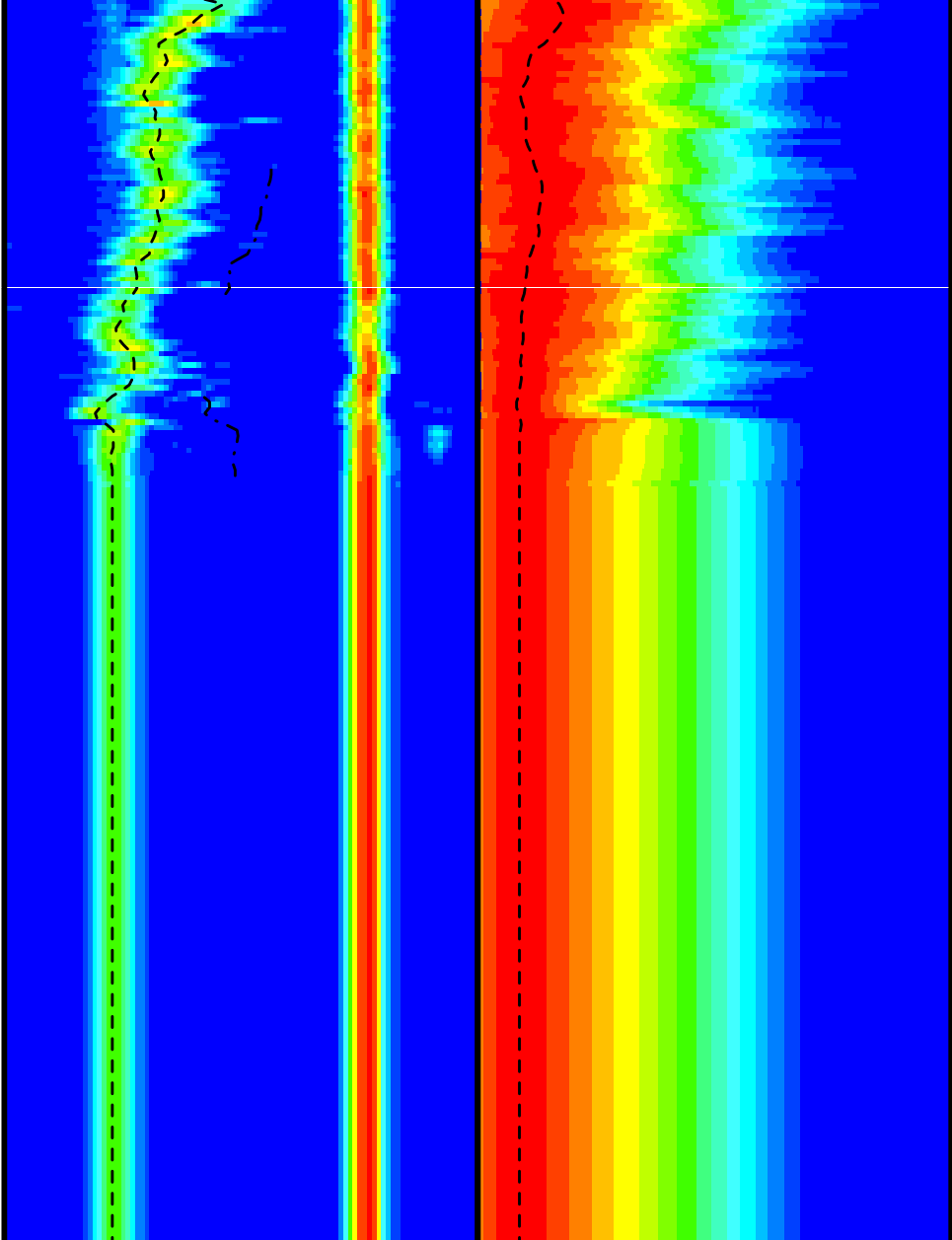




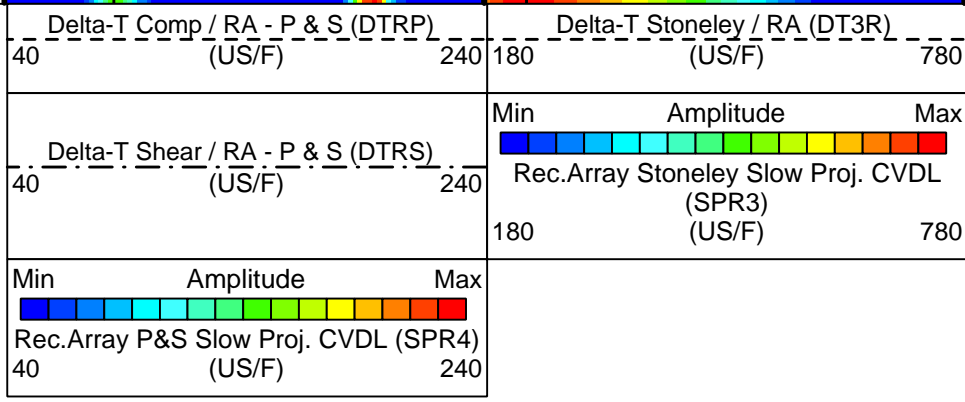




FR DSI-
-FR NGT
2000
-TDL-



6	Bit Size (BS)	16
(IN)		
0	Computed Gamma Ray (CGR)	100
(GAPI)		
440	Delta-T Stoneley (DTST)	40
(US/F)		
440	Delta-T Comp - P & S (DT4P)	40
(US/F)		
440	Delta-T Shear - P & S (DT4S)	40
(US/F)		
0	Peak Coherence / RA - Stoneley (CHR3)	10
(----)		
0	Spectroscopy Gamma Ray (SGR)	150
(GAPI)		
10000	Tension (TENS)	0
(LBF)		



Uplug Pass 1

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	
BHS	Borehole Status	OPEN	
BS	Bit Size	7.250	IN
CASF	Label Casing Function - Monopole P&S	50	
CBAR	Constant Barite	1	
CGMI	Spectro Computed Gamma Ray Minimum	0	GAPI
CGSH	Spectro Computed Gamma Ray Shale	100	GAPI
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	US/F
DDE3	Digitizing Delay 3	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DFD	Drilling Fluid Density	1.02	G/C3
DSI3	Digitizer Sample Interval 3	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
DWC3	Digitizer Word Count 3	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
KMIN	Potassium Minimum	0	
KSHA	Potassium Shale	0.02	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NFO	NGT Filtering Option	KALMAN	
PMUD	Potassium Mud	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
SAM3	DSST Sonic Acquisition Mode 3 - Low Frequency Monopole Mode for Stoneley	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	BCR	
SAS3	STC Sonic Array Status - Monopole Stoneley	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO3	STC Search Band Offset - Monopole Stoneley	2000	US
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW3	STC Search Bandwidth - Monopole Stoneley	6000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC3	STC Formation Character - Monopole Stoneley	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM3	STC Filter - Monopole Stoneley	B.5-1.5K	
SFM4	STC Filter - Monopole P&S	B3-20K	
SGMI	Spectro Gamma Ray Minimum	0	GAPI
SGSH	Spectro Gamma Ray Shale	100	GAPI
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	US/F
SHL3	STC Slowness Lower Limit - Monopole Stoneley	180	US/F
SHL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST3	STC Slowness Step - Monopole Stoneley	4	US/F

SST4	STC Slowness Step - Monopole P&S	2	US/F
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
SUL3	STC Slowness Upper Limit - Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD3	STC Slowness Width - Monopole Stoneley	40	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF3	STC Time for Baseline Fill - Monopole Stoneley	0	US
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL3	STC Time Lower Limit - Monopole Stoneley	620	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TMIN	Thorium Minimum	0	PPM
TSHA	Thorium Shale	12	PPM
TST3	STC Time Step - Monopole Stoneley	200	US
TST4	STC Time Step - Monopole P&S	50	US
TUL3	STC Time Upper Limit - Monopole Stoneley	12020	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD3	STC Time Width - Monopole Stoneley	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI3	STC Integration Time Window - Monopole Stoneley	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UMIN	Uranium Minimum	0	PPM
USHA	Uranium Shale	3	PPM
WFM4	Waveform Mode 4	W1	

Format: DSST_P_S_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 21-Dec-2000 16:59

OP System Version: 9C1-303

MCM

MEST-B	OP91-kp2	NGT-C	OP91-kp2
DTA-A	OP91-kp2	DSST-B	OP91-kp2
HTGC-B	OP91-kp2		

Output DLIS Files

DEFAULT	MESTB .031	FN:56	PRODUCER	21-Dec-2000 16:59
LAMONT	MESTB .031	FN:57	PRODUCER	21-Dec-2000 16:59

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 21-NOV-2000 6:10							
Caliper 1 Zero Measurement	8.000	N/A	8.682	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	8.000	N/A	8.539	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	12.00	N/A	12.76	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	12.00	N/A	12.63	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 21-DEC-2000 16:44							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
Micro Electrical Scanner - B (Slim) Wellsite Calibration - EPS MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 21-DEC-2000 16:44							
TEMPERATURE REFERENCE :	N/A	N/A	70	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	85	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	11	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	33	N/A	N/A	N/A	
Natural Gamma Spectroscopy - C Wellsite Calibration - Background Measurement							
Master: 5-OCT-2000 3:08 Before: 21-NOV-2000 6:09							
WINDOW 1 Background	100.0	10.40	12.16	N/A	N/A	100.0	CPS
WINDOW 2 Background	50.00	2.940	3.435	N/A	N/A	50.00	CPS
WINDOW 3 Background	10.00	0.7247	0.8199	N/A	N/A	10.00	CPS
WINDOW 4 Background	6.000	0.2401	0.3449	N/A	N/A	6.000	CPS
WINDOW 5 Background	10.00	0.4001	0.3749	N/A	N/A	10.00	CPS
SGR Background	30.00	3.845	4.481	N/A	N/A	N/A	GAPI
Natural Gamma Spectroscopy - C Wellsite Calibration - Normalized Jig Measurement							

Master: 5-OCT-2000 2:51	Before: 21-NOV-2000 6:34						
WINDOW 1 Jig	376.0	382.5	381.6	N/A	N/A	22.56	CPS
WINDOW 2 Jig	167.0	169.3	170.0	N/A	N/A	10.02	CPS
WINDOW 3 Jig	24.00	23.75	24.09	N/A	N/A	1.440	CPS
WINDOW 4 Jig	14.00	14.05	13.70	N/A	N/A	2.800	CPS
WINDOW 5 Jig	22.50	22.00	22.28	N/A	N/A	4.500	CPS
SGR Jig	160.0	160.0	160.0	N/A	N/A	7.000	GAPI

HPHT Telemetry Gamma-ray Cartridge - B Wellsite Calibration - Detector Calibration

Before: Calibration out of date 21-NOV-2000 6:07

Gamma Ray (Jig - Bkg)	151.2	N/A	151.2	N/A	N/A	13.75	GAPI
Gamma Ray (Calibrated)	160.1	N/A	160.1	N/A	N/A	15.00	GAPI

The NGT PCSL Value is set to 0.000 KEV

Micro Electrical Scanner - B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde - B	MEDS - B	702
MEST Preamplifier Cartridge - AB	MEPC - AB	807
GPIT Cartridge - A	GPIC - A	719
MEST Acquisition Cartridge - A	MEAC - A	833

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH - A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH - B	701

Natural Gamma Spectroscopy - C / Equipment Identification

Primary Equipment:

NGT Cartridge	NGC - C	1921
NGT Sonde	NGD - A	1736

Auxiliary Equipment:

NGT Cartridge Housing	NGCH - A	752
NGT Sonde Housing	NGH - B	3
Gamma Source Radioactive	GSR - U	

Natural Gamma Spectroscopy - C Wellsite Calibration

Background Measurement

Phase	WINDOW 1 Background CPS	Value	Phase	WINDOW 2 Background CPS	Value	Phase	WINDOW 3 Background CPS	Value
Master		10.40	Master		2.940	Master		0.7247
Before		12.16	Before		3.435	Before		0.8199
	0 (Minimum) 100.0 (Nominal) 400.0 (Maximum)			0 (Minimum) 50.00 (Nominal) 200.0 (Maximum)			0 (Minimum) 10.00 (Nominal) 40.00 (Maximum)	
Phase	WINDOW 4 Background CPS	Value	Phase	WINDOW 5 Background CPS	Value	Phase	SGR Background GAPI	Value
Master		0.2401	Master		0.4001	Master		3.845
Before		0.3449	Before		0.3749	Before		4.481
	0 (Minimum) 6.000 (Nominal) 24.00 (Maximum)			0 (Minimum) 10.00 (Nominal) 40.00 (Maximum)			0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)	

Master: 5-OCT-2000 3:08

Before: 21-NOV-2000 6:09

Natural Gamma Spectroscopy - C Wellsite Calibration

Normalized Jig Measurement

Phase	WINDOW 1 Jig CPS	Value	Phase	WINDOW 2 Jig CPS	Value	Phase	WINDOW 3 Jig CPS	Value
Master		382.5	Master		169.3	Master		23.75
Before		381.6	Before		170.0	Before		24.09
	354.0 (Minimum) 376.0 (Nominal) 398.0 (Maximum)			155.0 (Minimum) 167.0 (Nominal) 179.0 (Maximum)			21.50 (Minimum) 24.00 (Nominal) 26.50 (Maximum)	
Phase	WINDOW 4 Jig CPS	Value	Phase	WINDOW 5 Jig CPS	Value	Phase	SGR Jig GAPI	Value
Master		14.05	Master		22.00	Master		160.0
Before		13.70	Before		22.28	Before		160.0
	13.00 (Minimum) 14.00 (Nominal) 15.00 (Maximum)			22.00 (Minimum) 23.00 (Nominal) 25.00 (Maximum)			140.0 (Minimum) 160.0 (Nominal) 170.0 (Maximum)	

12.50 (Minimum)	14.00 (Nominal)	15.50 (Maximum)	20.00 (Minimum)	22.50 (Nominal)	25.00 (Maximum)	148.0 (Minimum)	160.0 (Nominal)	172.0 (Maximum)
Master: 5-OCT-2000 2:51			Before: 21-NOV-2000 6:34					

Natural Gamma Spectroscopy - C Wellsite Calibration						
Quality Control Values						
Phase	DHVF Jig V	Value	Phase	Quality Windows Ratio Jig	Value	
Master		1542	Master		2.259	
Before		1538	Before		2.245	
	1088 (Minimum)	1450 (Nominal)	1813 (Maximum)	2.150 (Minimum)	2.240 (Nominal)	2.330 (Maximum)
Master: 5-OCT-2000 2:51			Before: 21-NOV-2000 6:34			

Natural Gamma Spectroscopy - C Wellsite Calibration			
Quality Control Values Check			
Phase	Thorium peak Form Factor Jig	Value	
Before		-0.2896	
	-0.2000 (Minimum)	0 (Nominal)	0.2000 (Maximum)
Before: 21-NOV-2000 6:34			

HPHT Telemetry Gamma-ray Cartridge - B / Equipment Identification			
Primary Equipment:			
STGC Gamma-ray & Accelerometer Cartridge	STGC - BH	8038	
Mud Temperature Sensor	MTEM -	1	
STGC Telemetry Cartridge	STGC - A	8038	
Auxiliary Equipment:			
HPHT/STGC Dewar Flask Housing	UDFH - KL	1062	

HPHT Telemetry Gamma-ray Cartridge - B Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value			
Before		5.682	Before		151.2	Before		160.1			
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	137.5 (Minimum)	151.2 (Nominal)	165.0 (Maximum)	145.1 (Minimum)	160.1 (Nominal)	175.1 (Maximum)		
Before: Calibration out of date 21-NOV-2000 6:07											

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	1998 m
WELL:	ODP Leg 193, Site 1188F (PCM-2A)	SCHLUMBERGER DEPTH	2008 m
FIELD:	Manus Basin, Snowcap	DEPTH DRILLER	2039.7 m
COUNTY:	Offshore	KELLY BUSHING	11.3 m
STATE:	Bismarck Sea	DRILL FLOOR	11 m
		GROUND LEVEL	-1653 m



Dipole Sonic, Stonely and P&S
Natural Gamma Ray