**Schlumberger**

Company: **International Ocean Discovery Program**

Well: **Expedition 363, Site U1482C**
Field: **Western Pacific Warm Pool**
Rig: **JOIDES Resolution** Ocean: **Indian**

Rig: JOIDES Resolution
Field: Western Pacific Warm Pool
Location: Latitude: S 15* 3.3283'
Well: Expedition 363, Site U1482C
Company: International Ocean Discovery Pr

Formation Micro Scanner (FMS)
Dipole Shear Sonic Imager (DSI)
Natural Gamma Ray

LOCATION

Latitude: S 15* 3.3283'
Longitude: E 120* 26.1136'

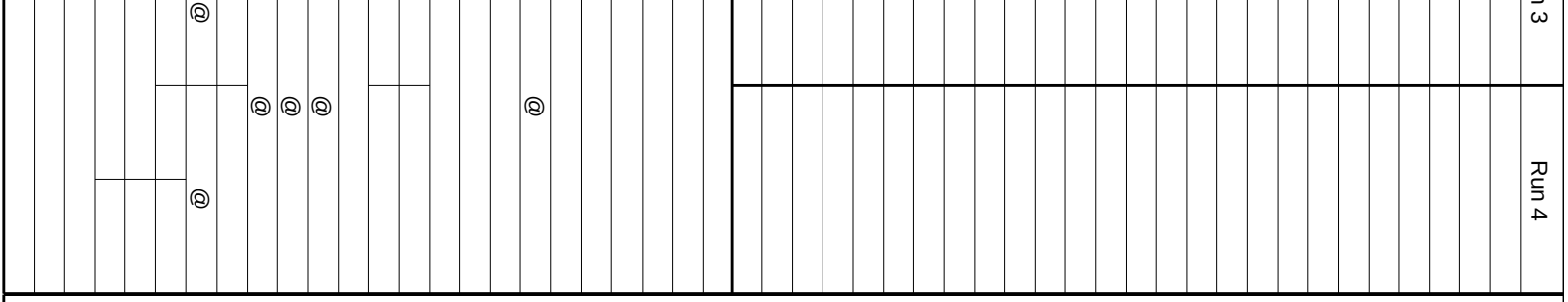
Elev.: K.B. 0.00 m
G.L. −1476.10 m
D.F. 0.00 m

Permanent Datum: Sea Floor — Elev.: −1476.00 m
Log Measured From: Rig Floor — 1476.00 m above Perm. Datum
Drilling Measured From: Rig Floor

| API Serial No. | Max. Hole Devi. 0 deg | Longitude E 120.4352 | Latitude S 15.0554 |
|---|---|---|---|

| | Run 1 | Run 2 | Run 3 |
|---|---|---|---|
| Logging Date | 24−Oct−2016 | | |
| Run Number | 1 | | |
| Depth Driller | 2010.2 m | | |
| Schlumberger Depth | 2008 m | | |
| Bottom Log Interval | 1993 m | | |
| Top Log Interval | 1476 m | | |
| Casing Driller Size @ Depth | 5.000 in @ 1561.7 m | @ | @ |
| Casing Schlumberger | 1552 m | | |
| Bit Size | 11.438 in | | |
| Type Fluid In Hole | Seawater | | |
| MUD Density / Viscosity | 1.025 g/cm3 / | / | / |
| MUD Fluid Loss / PH | / 8.07 | / | / |
| MUD Source Of Sample | Mudpit | | |
| RM @ Measured Temperature | @ 23 degC | @ | @ |
| RMF @ Measured Temperature | @ | @ | @ |
| RMC @ Measured Temperature | @ | @ | @ |
| Source RMF / RMC | N/A / N/A | / | / |
| RM @ MRT / RMF @ MRT | @ 17 / @ 17 | @ / @ | @ / @ |
| Maximum Recorded Temperatures | 17 degC | | |
| Circulation Stopped / Time | 23−Oct−2016 / 23:30 | | |
| Logger On Bottom / Time | 24−Oct−2016 / 06:10 | | |
| Unit Number / Location | 627314 / Larose, LA | / | / |
| Recorded By | K. Swain | | |
| Witnessed By | G. Mountain, A. Schmitt, Z. Mateo | | |

| | 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: HRLA/HLDS/APS/HNGS | OS1: |
| OS2: | OS2: |
| OS3: | OS3: |
| OS4: | OS4: |
| OS5: | OS5: |

| REMARKS: RUN NUMBER 1 | REMARKS: RUN NUMBER 2 |
|---|---|
| Hole drilled with APC/XCB bottom hole assembly (BHA) at 11 7/16" BS | |
| Pipe positioned approximately 85.6m below sea floor. | |
| Sea Floor: 1476.1 mbrf driller depth | |
| Entire string centralized using two modified MCD 3−arm spring centralizers as per toolsketch. | |
| Pipe raised for 2nd uplog by 15m to acquire more data. | |
| Local tides up to 4m at this site. | |
| SAM1 lower frequency dipole shear acquired on all passes | |
| SAM2 upper dipole shear acquired on all passes | |
| SAM4 P&S compressional acquired on all passes | |
| 2nd uplog stopped short of sea floor after difficulty entering pipe. | |
| Active Heave Compensation not used as heave was 0.5m p−p or less. | |
| Pad A lighter in color than other 3 pads. Data effect to be determined after | |
| LDEO processing. Raw image data presented and not processed data. | |
| DIpole Sonic Data played back for labeling improvement. Areas near drill pipe | |
| with little or no slowness coherency plot is normal in soft formations. | |
| Activation of GR at drill pipe from Run 1 due to APS neutron generation | |
| at the area from 1560−1550mbrf approximately which is temporary. | |

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 19C0−187
FLUID LEVEL:

| LOGGED INTERVAL | START | STOP |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

| LOGGED INTERVAL | START | STOP |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

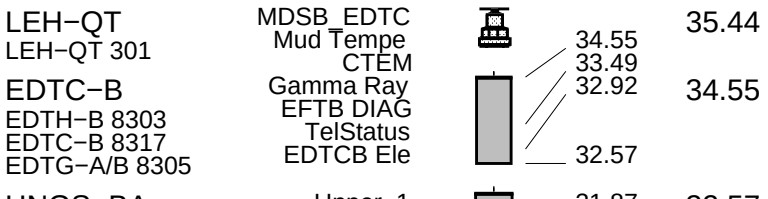
# EQUIPMENT DESCRIPTION

RUN 1 RUN 2

## SURFACE EQUIPMENT

GSR−U 616008
WITM (EDTS)−A 1

## DOWNHOLE EQUIPMENT



HNGS−BA
HNGS−BA 177
HNSH−BA 174

Upper_1 31.87
Lower_2 31.66

32.57

HNGC−B
HNGH−A 380

HNGC Stat 29.54

30.07

AH−MCD
AH−MCD 82

29.01

DSST−B
SPAC−B 8194
ECH−SD 8183
SMDR−BD 8232
SSIJ−BA 8192
SMDX−AA 8131

26.73

PWF 11.18

AH−MCD1
AH−MCD1 1

11.18

DTA−A
ECH−KE 8456

8.90

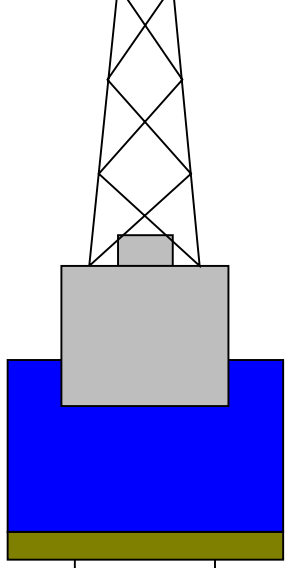
MEST−B
MEAH−B 726
MEAC−A 804
MEPH−A 702
GPIC−AC 719
MEPC−AB 807
MEDS−B 724

7.68

MEDR MEAC
MEPC MEDS−B 0.46
HV DF ACCZ
Tension GPIT 0.00
TOOL ZERO

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

| Production String | (in) OD | ID | (M) MD | Well Schematic | (M) MD | (in) OD | ID | Casing String |
|---|---|---|---|---|---|---|---|---|



| | | | | |
|---|---|---|---|---|
| Kelly Bushing Elevation | 0 | | | |
| Derrick Floor Elevation | 0 | | | |
| Mean Sea Level | 11 | | | |
| | | 4.1 | | |
| | | 1476.1 | 4.1 | Sea Floor |
| | | 1561.7 | 11.4375 | Open Hole |
| | | 2010.2 | | Total Depth |

Company: International Ocean Discovery Program | Well: Expedition 363, Site U1482C

## Input DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| | FMS_DSI_NGS_024LUP | FN:42 | | 24−Oct−2016 09:02 | 1986.5 M | 1496.4 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_034PUP | FN:51 | PRODUCER | 25−Oct−2016 07:56 | 1986.5 M | 1496.4 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

PIP SUMMARY

Time Mark Every 60 S

| HNGS Spectroscopy Gamma Ray (HSGR) | | |
|---|---|---|
| 0 | (GAPI) | 100 |

| 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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Poisson's Ratio (PR)
0 (−−−−) 0.5

Sonic Velocity (SVEL)
1000 (M/S) 6000

Sonde Deviation (SDEVM)
0 (DEG) 10

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 1 (C1)
0 (IN) 20

2nd Uplog P&S Compressional, Upper Dipole Shear

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

Caliper 2 (C2)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
3000 0

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

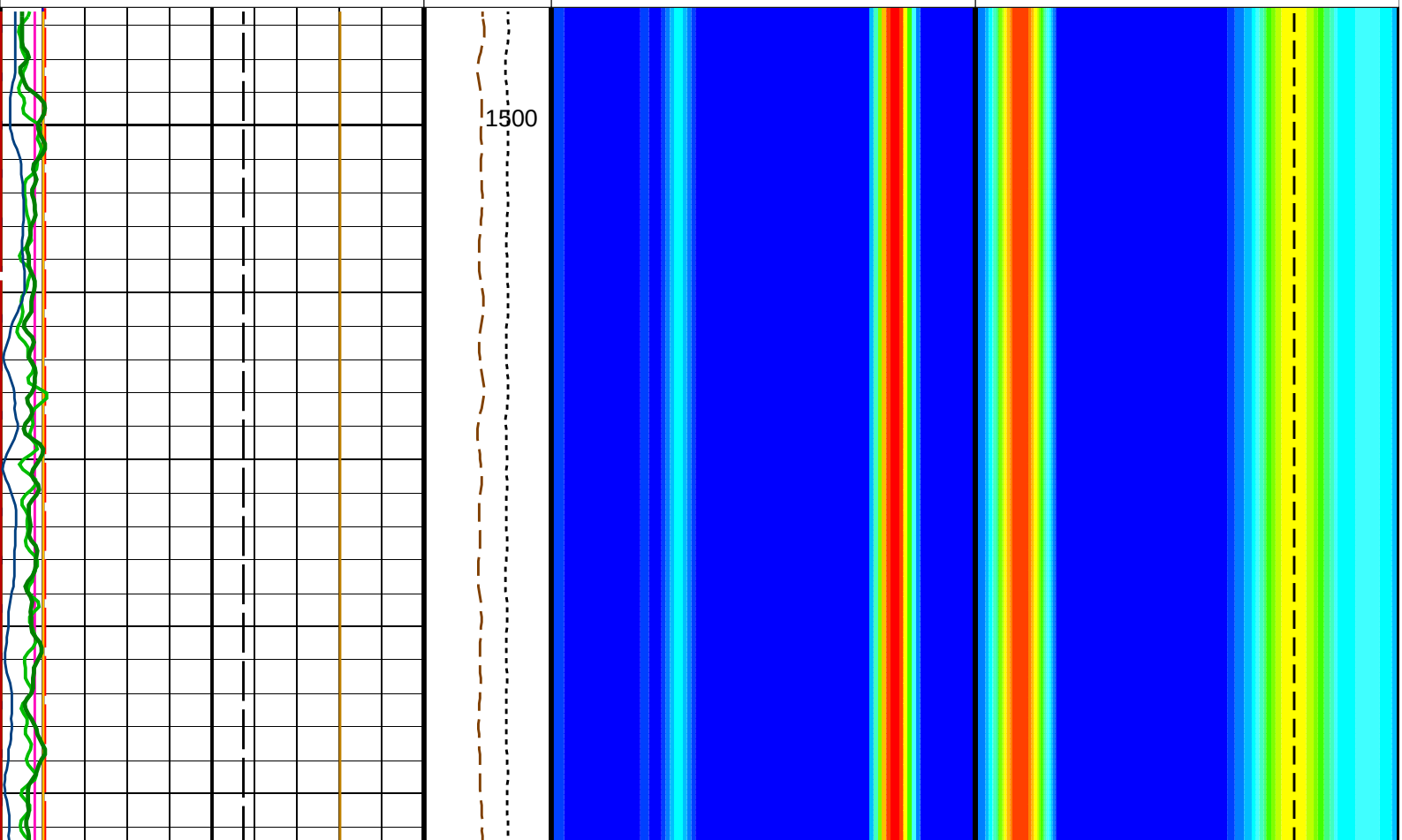
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

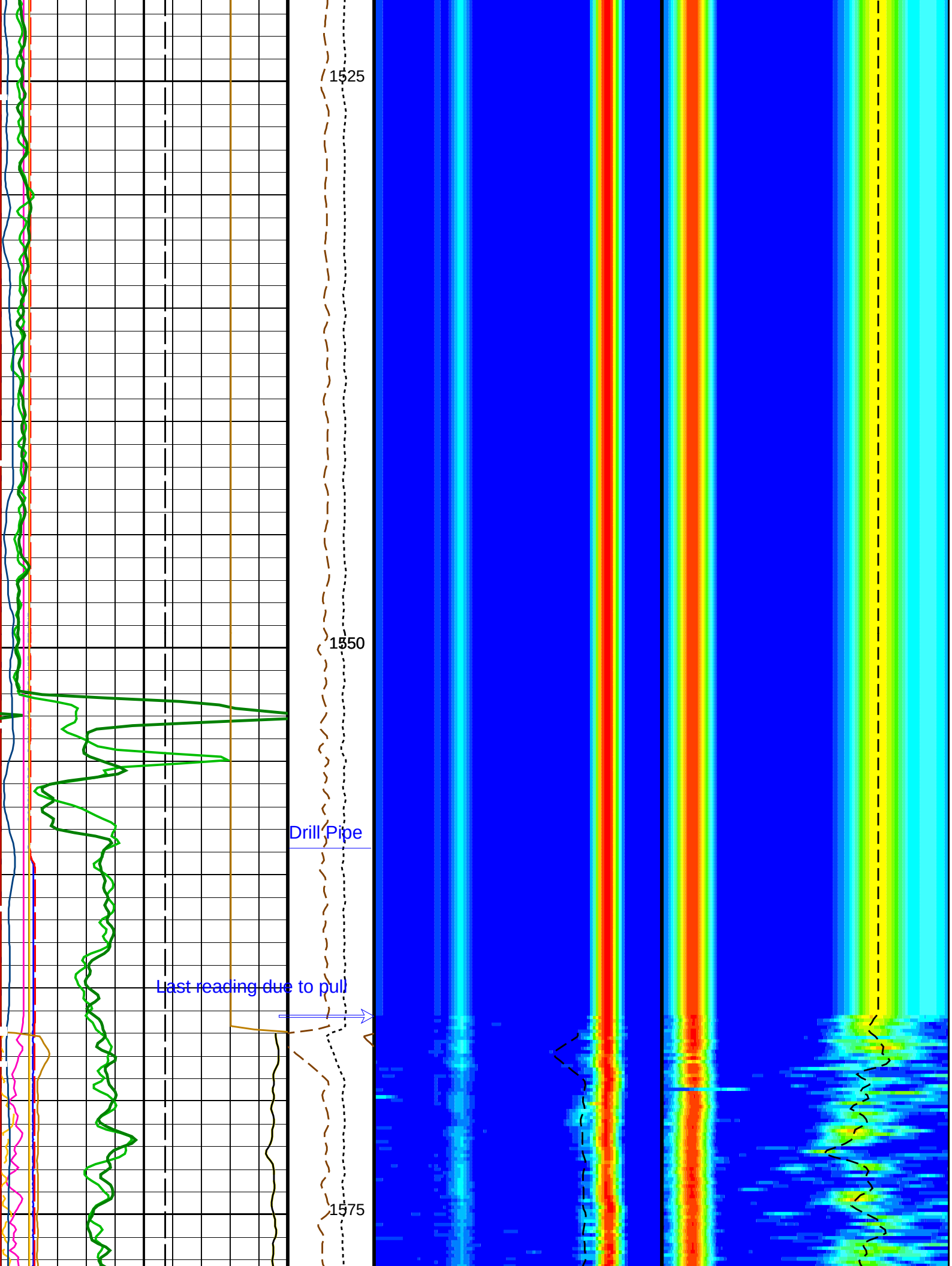
Bit Size (BS)
0 (IN) 20

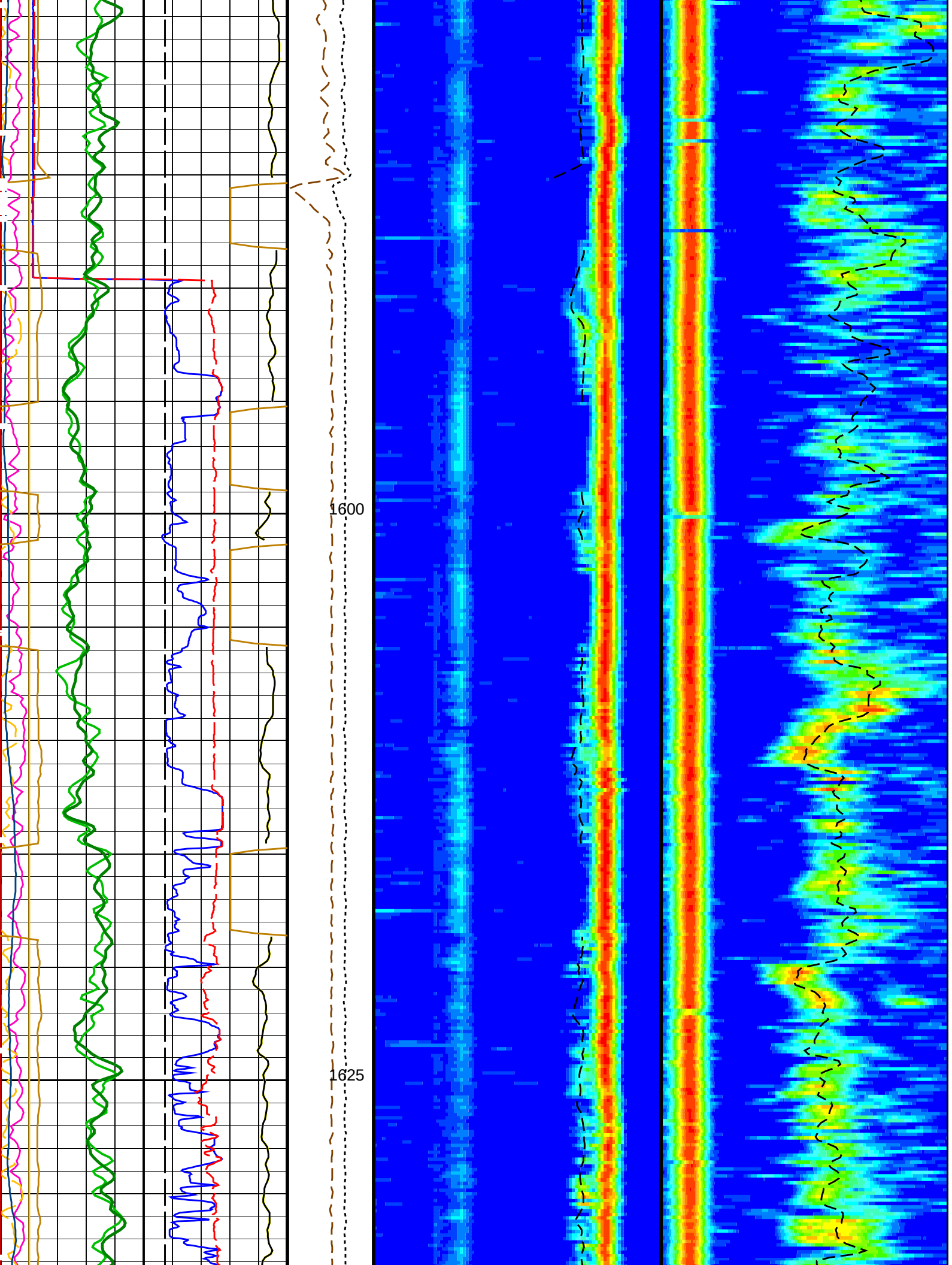
Tension (TENS) (LBF)
10000 0

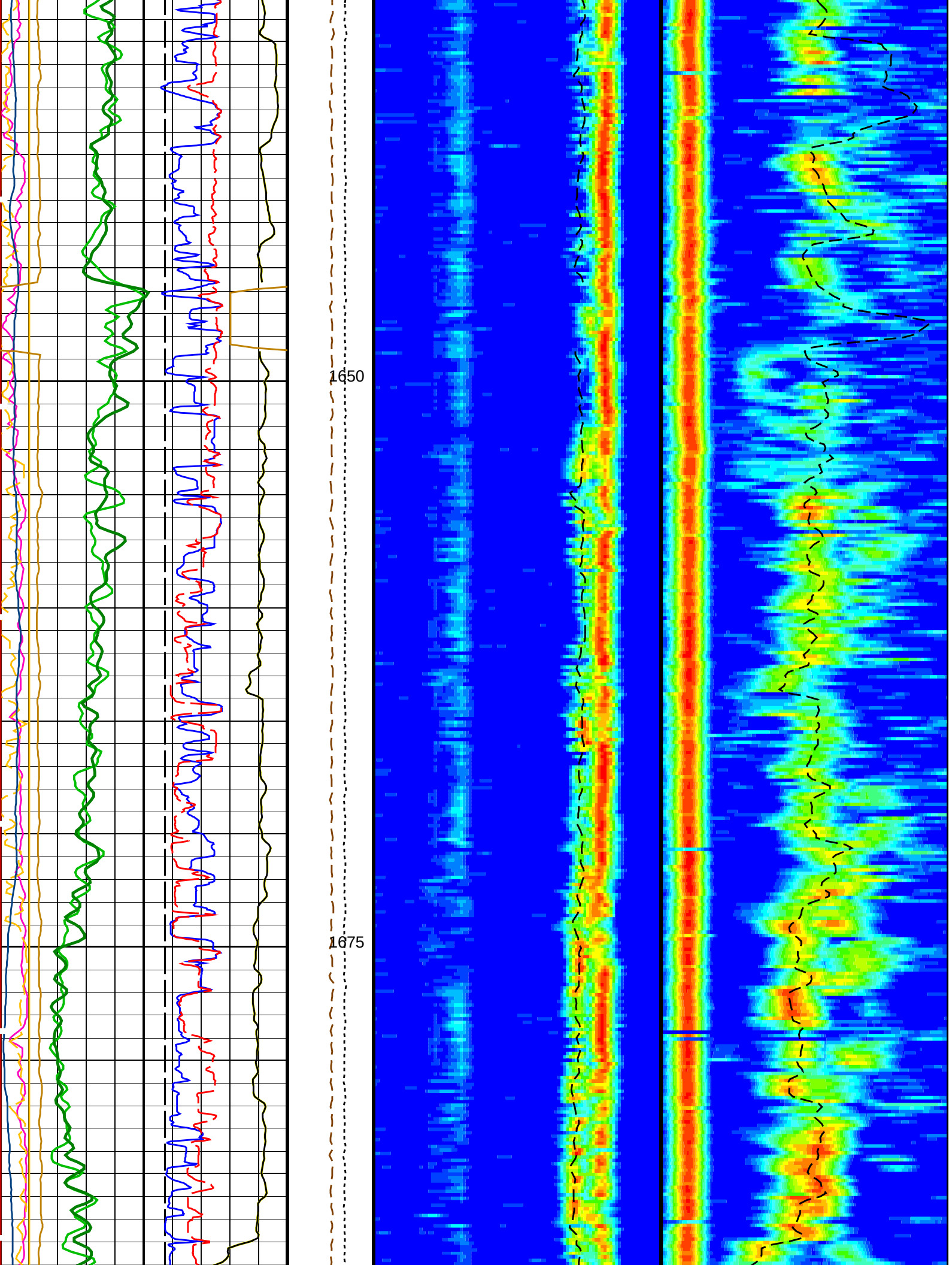
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

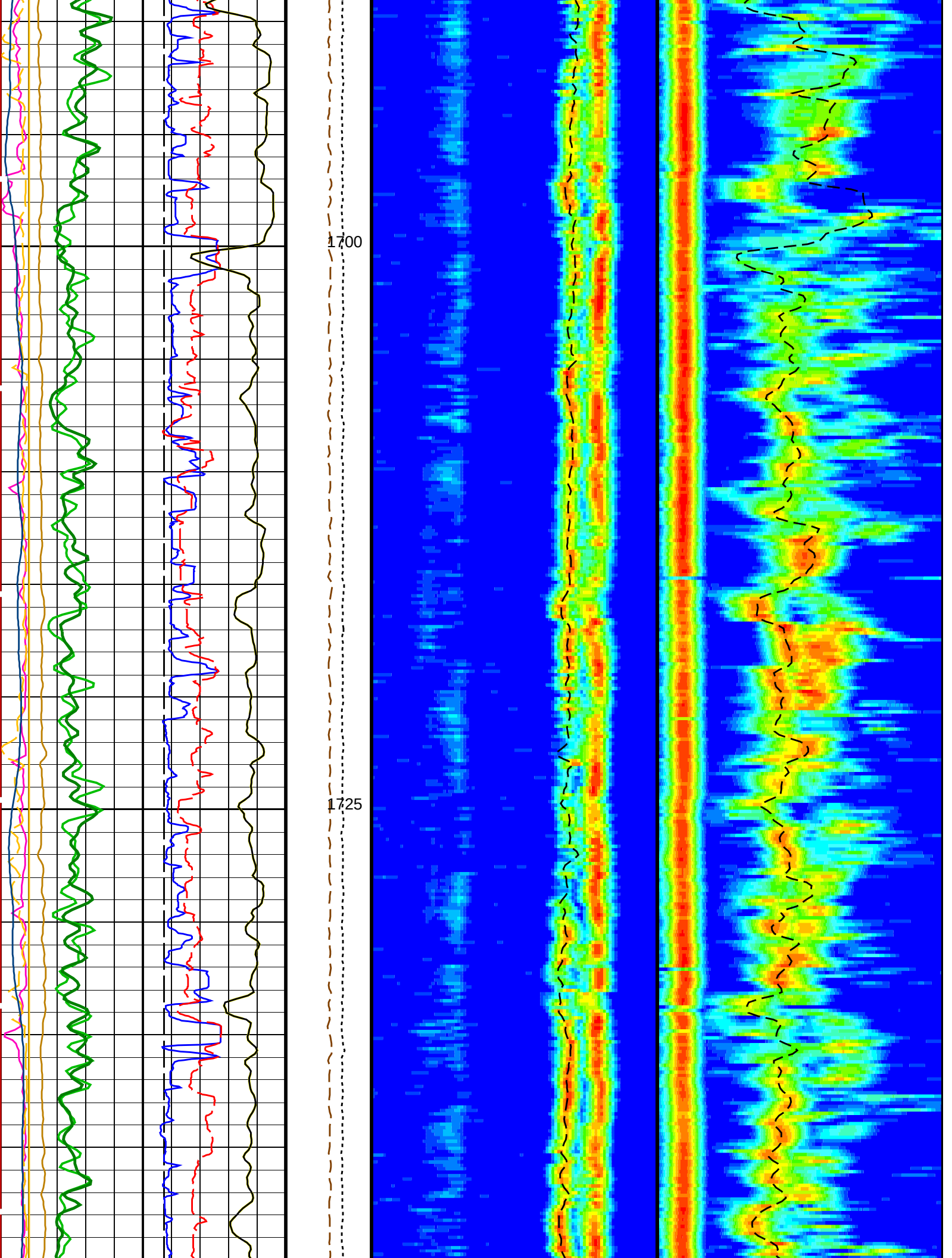
Delta−T Shear / RA − Upper Dipole (DT2R)
75 (US/F) 1200

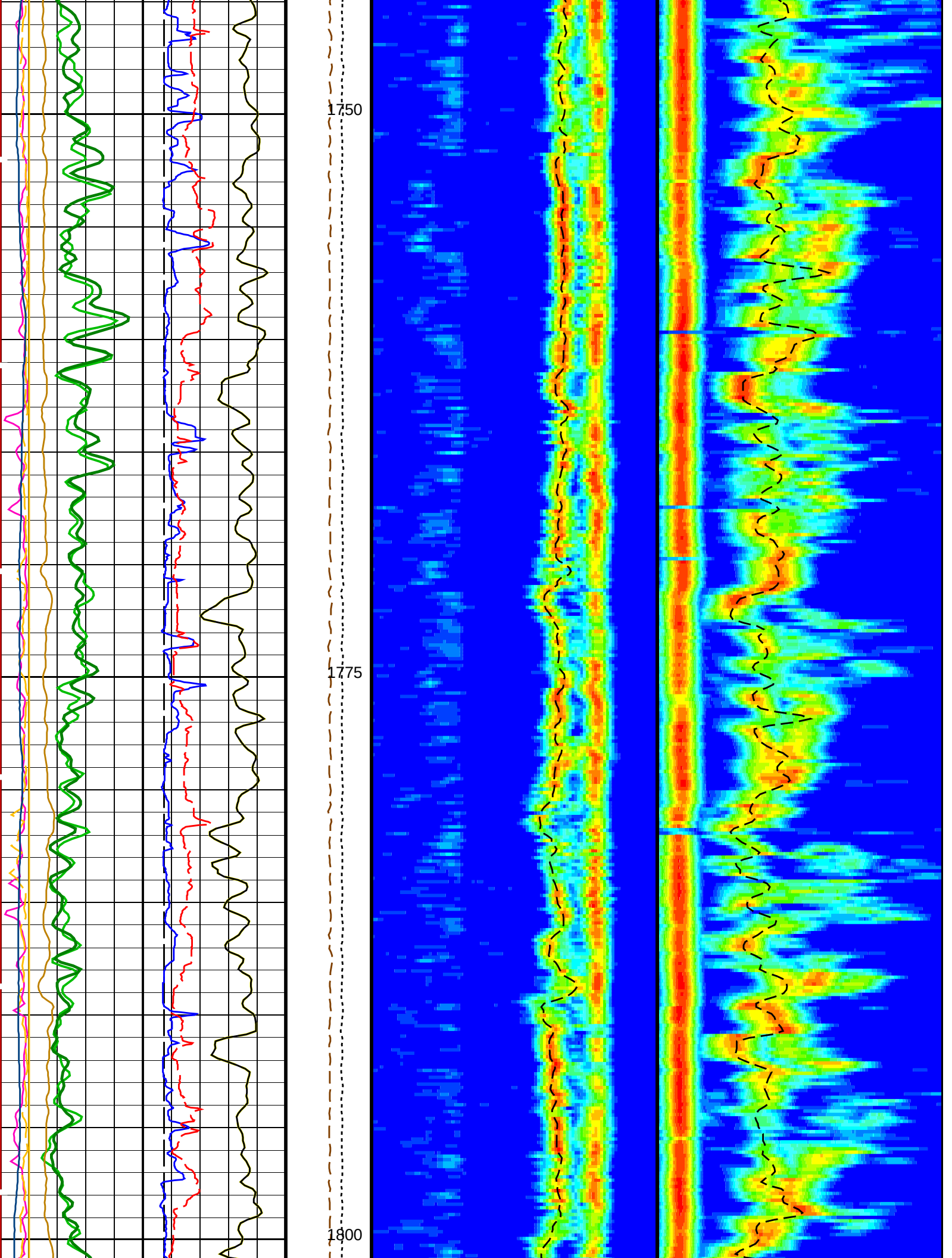


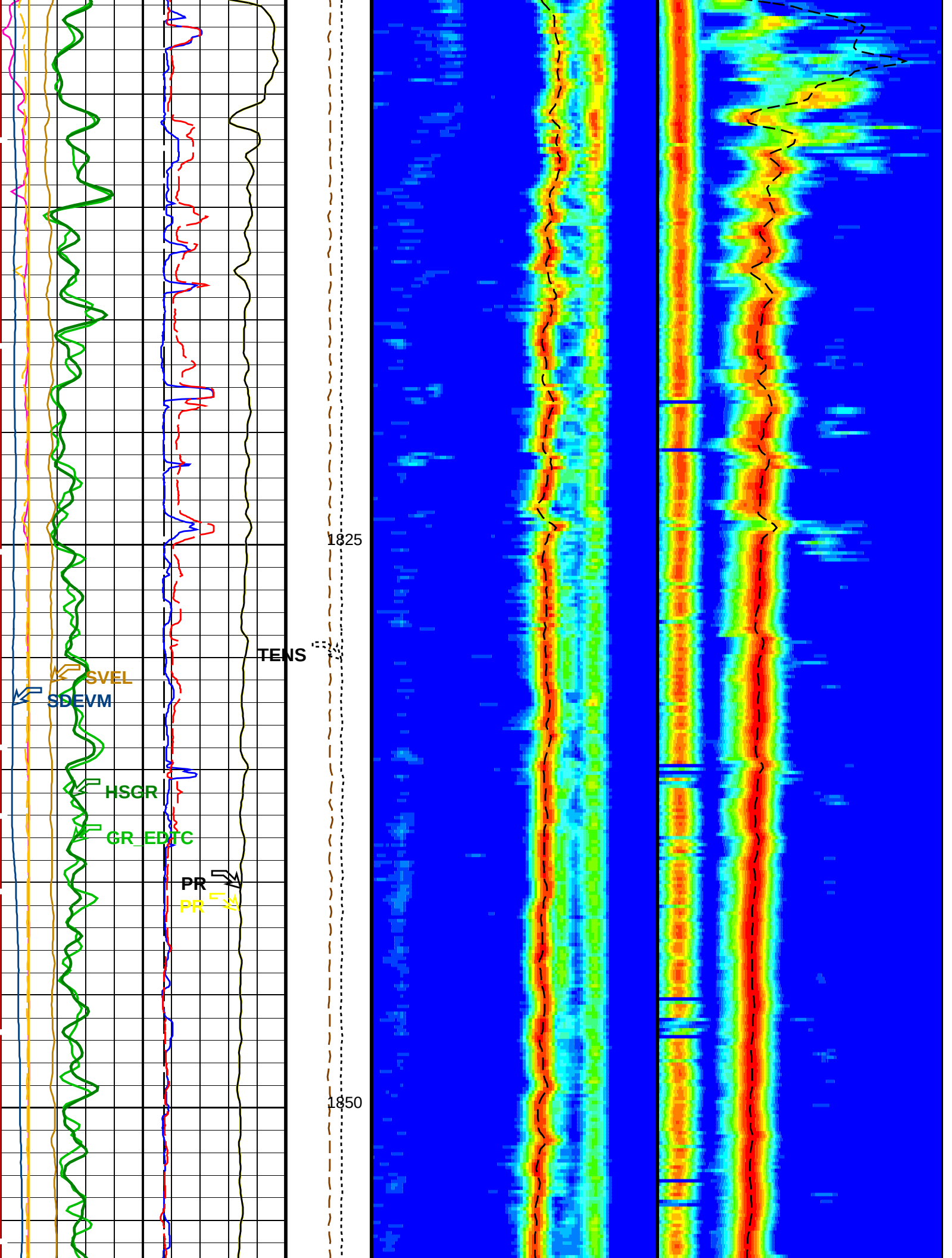

1525
1550
Drill Pipe
Last reading due to pull
1575

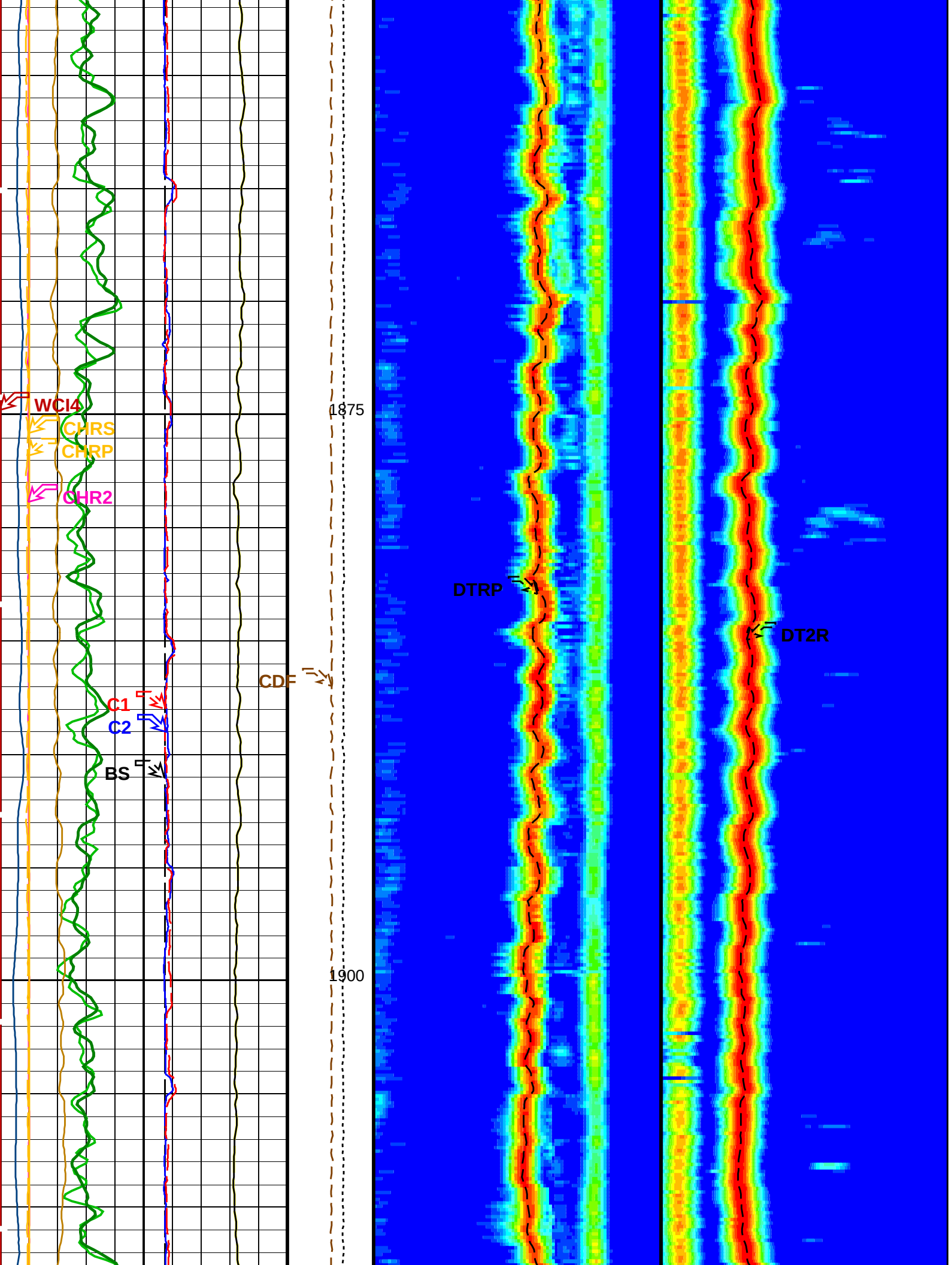

1600
1625

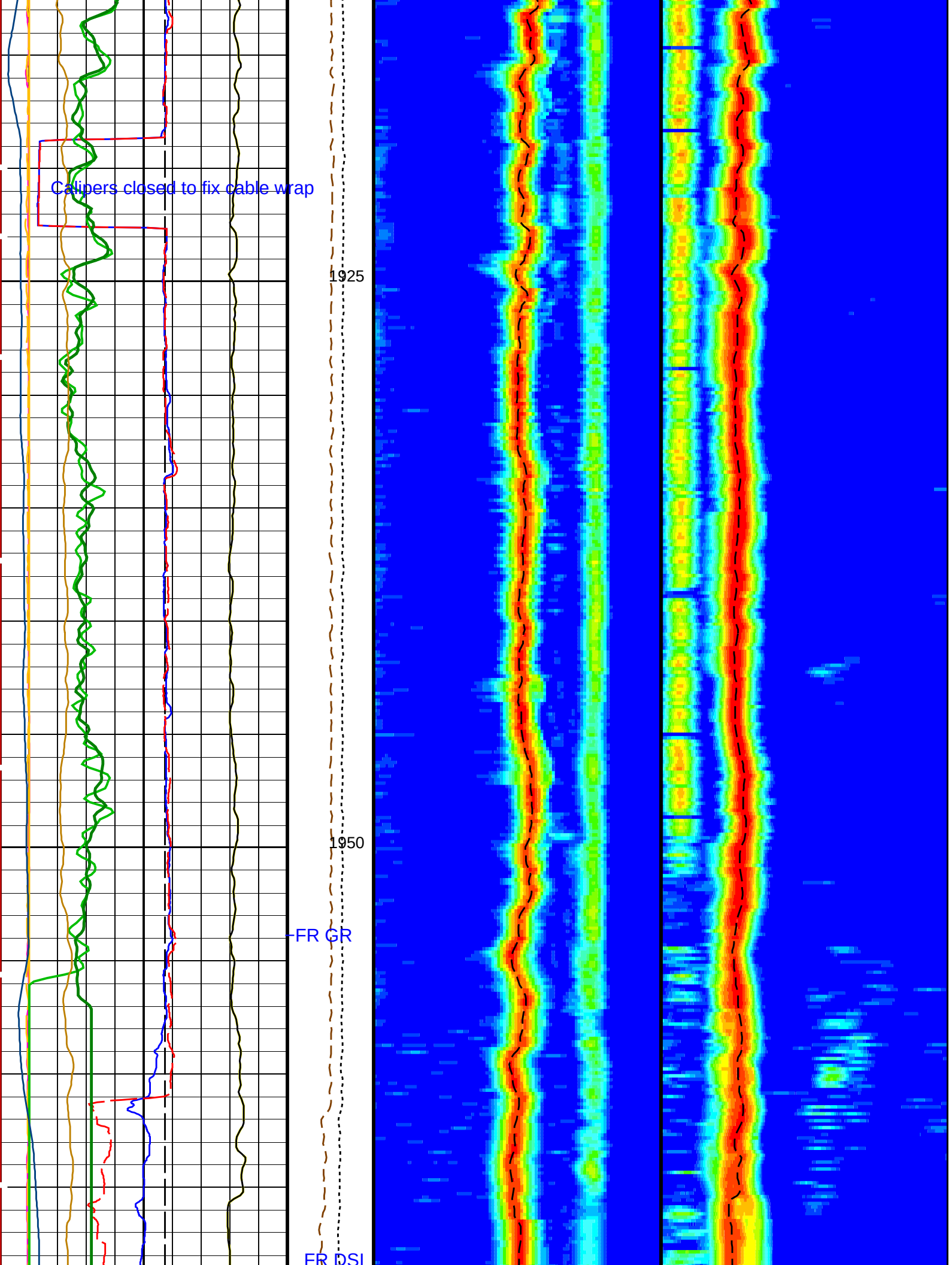

1650
1675

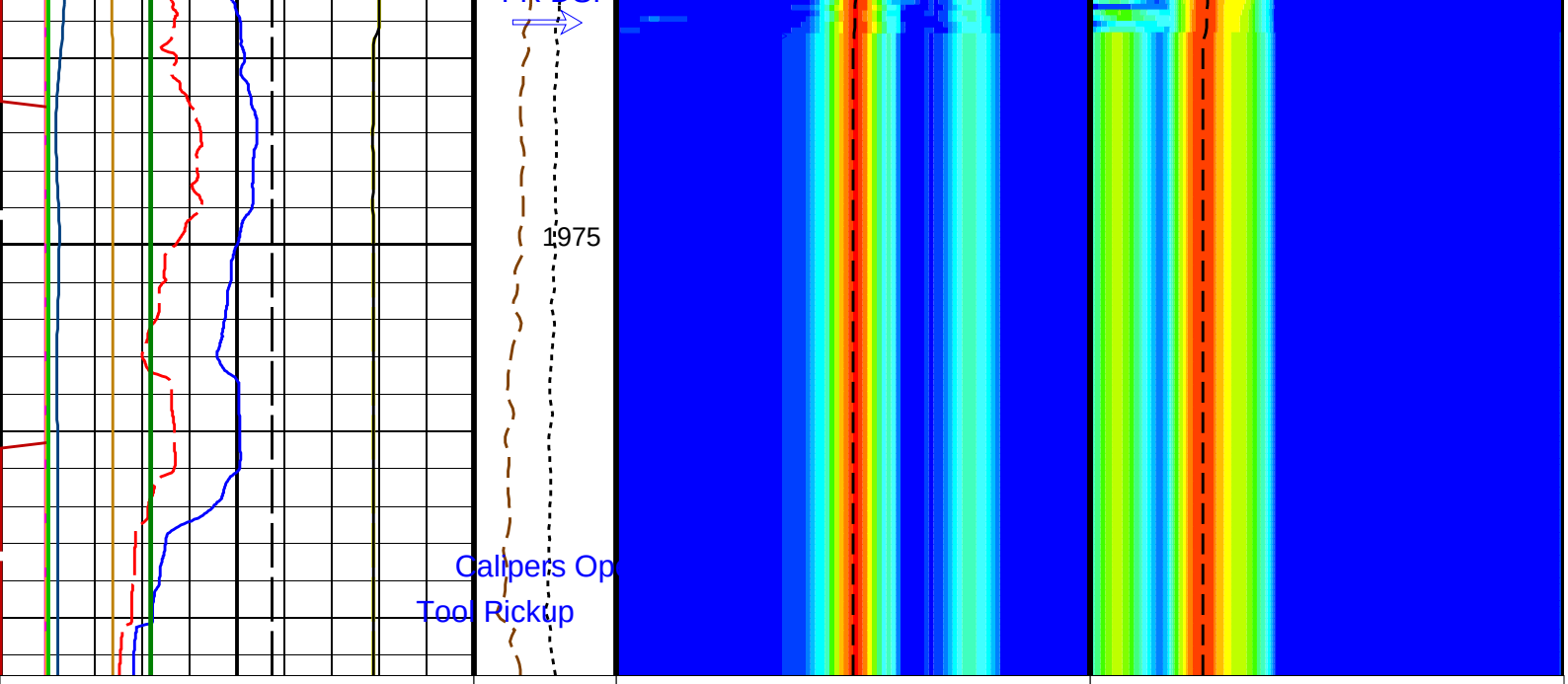

1700
1725


1750
1775
1800


1825
TENS
SVEL
SDEVM
HSGR
GR_EDTC
PR
PR
1850


WCI4
CHRS
CHRP
CHR2
C1
C2
BS
CDF
DTRP
DT2R
1875
1900


Calipers closed to fix cable wrap
1925
1950
FR GR
FR DSI




| | | | |
|---|---|---|---|
| Bit Size (BS)<br>0 (IN) 20 | Tension (TENS) (LBF)<br>10000 0 | Delta−T Comp / RA − P & S (DTRP)<br>40 (US/F) 240 | Delta−T Shear / RA − Upper Dipole (DT2R)<br>75 (US/F) 1200 |
| Caliper 2 (C2)<br>0 (IN) 20 | Calibrated Downhole Force (CDF) (LBF)<br>3000 0 | Delta−T Shear / RA − P & S (DTRS)<br>40 (US/F) 240 | Min Amplitude Max<br>Rec.Array U.Dipole Slow Proj. CVDL (SPR2)<br>75 (US/F) 1200 |
| Caliper 1 (C1)<br>0 (IN) 20 | | Min Amplitude Max<br>Rec.Array P&S Slow Proj. CVDL (SPR4)<br>40 (US/F) 240 | |

Poisson's Ratio (PR)
0 (−−−−) 0.5

Sonde Deviation (SDEVM)
0 (DEG) 10

Sonic Velocity (SVEL)
1000 (M/S) 6000

Poisson's Ratio (PR)
0 (−−−−) 0.5

Gamma Ray (GR_EDTC)
0 (GAPI) 100

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

HNGS Spectroscopy Gamma Ray

2nd Uplog P&S Compressional, Upper Dipole Shear

| | (HSGR) | |
|---|---|---|
| 0 | (GAPI) | 100 |

PIP SUMMARY

Time Mark Every 60 S

# Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | MEST−B: Micro Electrical Scanner − B (Slim) | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| | 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 | 130 | US/F |
| COUL | Label Slowness Upper Limit − Monopole P&S Compressional | 187 | 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 | 200 | 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 | 40 | US |
| DTCS | Compressional Delta−T Source for DTCO Channel | PS_COMP | |
| DTF | Delta−T Fluid | 189 | US/F |
| DTSS | Shear Delta−T Source for DTSM Channel | UPPER_DIPOLE | |
| 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 | |
| GCSE | Generalized Caliper Selection | BS | |
| LFC | Label Formation Character − Monopole P&S | DYNAMIC | |
| MCS | Mean Casing Slowness | 57 | US/F |
| MTXG | Monopole Transmitter Geometry | 186 | IN |
| NWI2 | Number Waveform Items 2 | 8 | |
| NWI4 | Number Waveform Items 4 | 8 | |
| NWIX | Number Waveform Items X | 0 | |
| RSMN | Label Shear/Compressional Minimum Ratio − Monopole P&S | 1.4 | |
| RSMX | Label Shear/Compressional Maximum Ratio − Monopole P&S | 2.12 | |
| RX1G | Receiver 1 Geometry | 294 | IN |
| RX2G | Receiver 2 Geometry | 300 | IN |
| RX3G | Receiver 3 Geometry | 306 | IN |
| RX4G | Receiver 4 Geometry | 312 | IN |
| RX5G | Receiver 5 Geometry | 318 | IN |
| RX6G | Receiver 6 Geometry | 324 | IN |
| RX7G | Receiver 7 Geometry | 330 | IN |
| RX8G | Receiver 8 Geometry | 336 | IN |
| SAM2 | DSST Sonic Acquisition Mode 2 − Upper Dipole Mode | ODD | |
| SAM4 | DSST Sonic Acquisition Mode 4 − 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 | B1−2K | |
| SFM4 | STC Filter − Monopole P&S | B3−20K | |
| SHLL | Label Slowness Lower Limit − Monopole P&S Shear | 235 | 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 | 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 |

| | | | |
|---|---|---|---|
| TBF4 | STC Time for Baseline Filt − Monopole P&S | 300 | US |
| TLL2 | STC Time Lower Limit − Upper Dipole | 600 | 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 | |
| | **HNGS−BA: Hostile Natural Gamma Ray Sonde** | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.000873556 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.04988 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.00338 | |
| | **EDTC−B: Enhanced DTS Cartridge** | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | **System and Miscellaneous** | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 25−Oct−2016 07:56

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_024LUP | FN:42 | 24−Oct−2016 09:02 | 1986.5 M | 1496.4 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_034PUP | FN:51 | PRODUCER | 25−Oct−2016 07:56 | | |

Company: International Ocean Discovery Program Well: Expedition 363, Site U1482C

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_024LUP | FN:42 | 24−Oct−2016 09:02 | 1986.5 M | 1496.4 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_034PUP | FN:51 | PRODUCER | 25−Oct−2016 07:56 | 1986.5 M | 1496.4 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |

| | | | |
|---|---|---|---|
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## PIP SUMMARY

Time Mark Every 60 S

**HNGS Spectroscopy Gamma Ray (HSGR)**
0 (GAPI) 100

**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 − Lower Dipole (CHR1)**
0 (−−−−) 10

**Sonic Velocity (SVEL)**
1000 (M/S) 6000

**Gamma Ray (GR_EDTC)**
0 (GAPI) 100

**Poisson's Ratio (PR)**
0 (−−−−) 0.5

**Sonde Deviation (SDEVM)**
0 (DEG) 10

**Poisson's Ratio (PR)**
0 (−−−−) 0.5

**Caliper 2 (C2)**
0 (IN) 20

**Caliper 1 (C1)**
0 (IN) 20

**Bit Size (BS)**
0 (IN) 20

Uplog #2, P&S Compressional, Lower Dipole Shear

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

**Calibrated Downhole Force (CDF) (LBF)**
3000 0

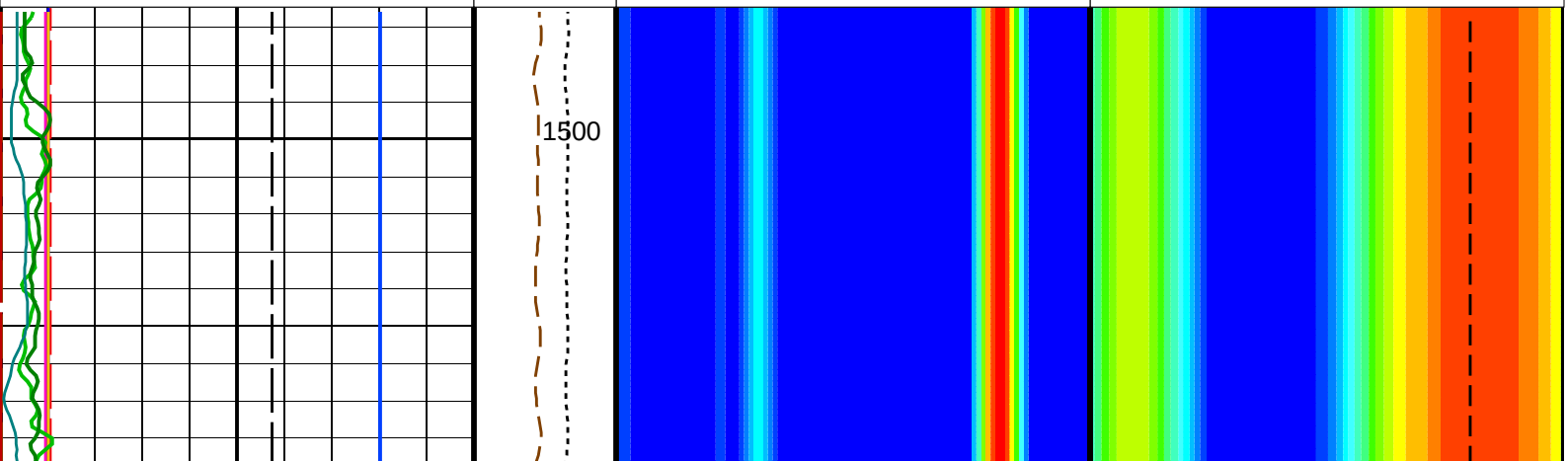
**Delta−T Shear / RA − P & S (DTRS)**
40 (US/F) 240

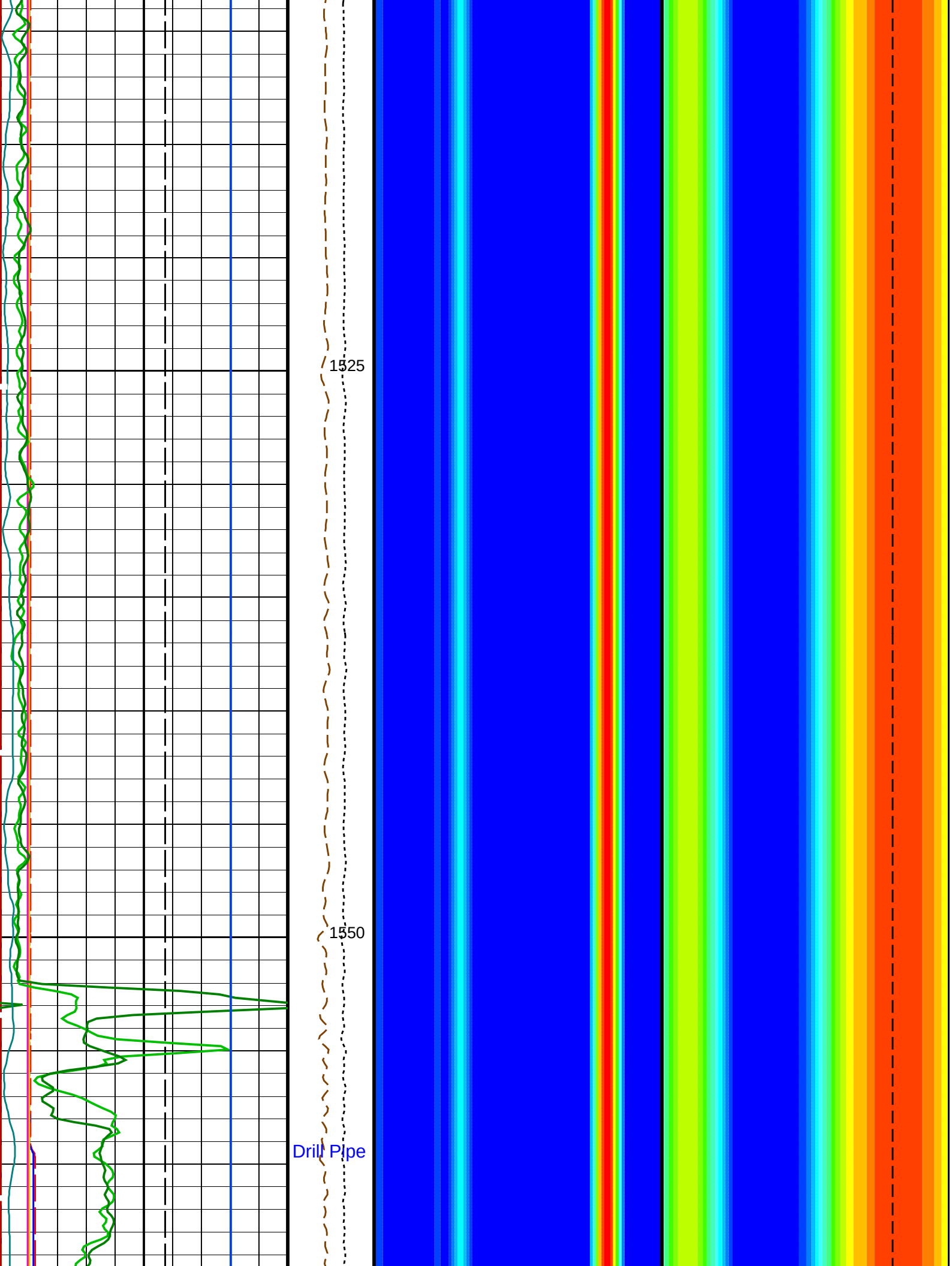
**Min Amplitude Max**
**Rec.Array L.Dipole Slow Proj. CVDL (SPR1)**
75 (US/F) 1200

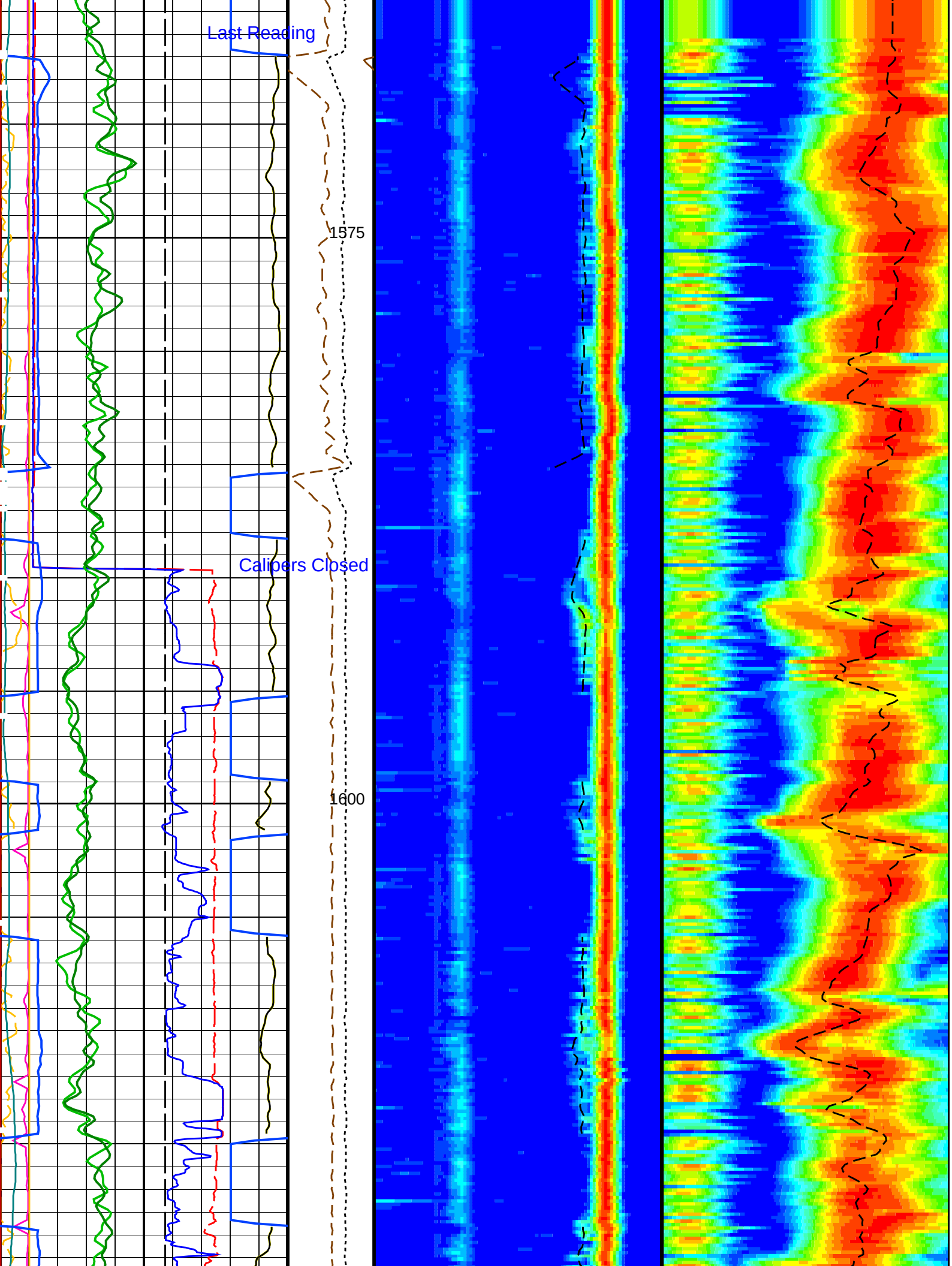
**Tension (TENS) (LBF)**
10000 0

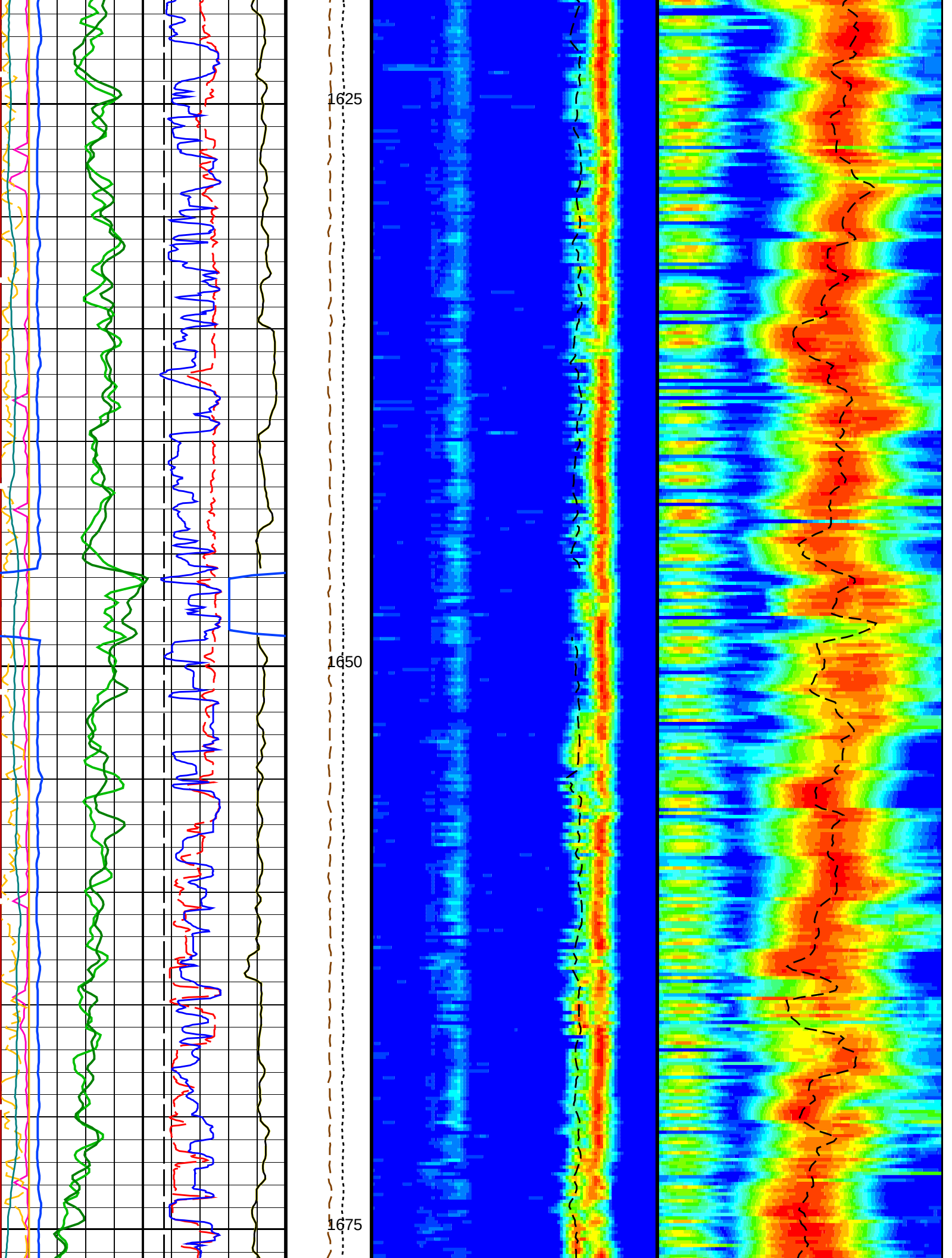
**Delta−T Comp / RA − P & S (DTRP)**
40 (US/F) 240

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




1525
1550
Drill Pipe


Last Reading
1575
Calipers Closed
1600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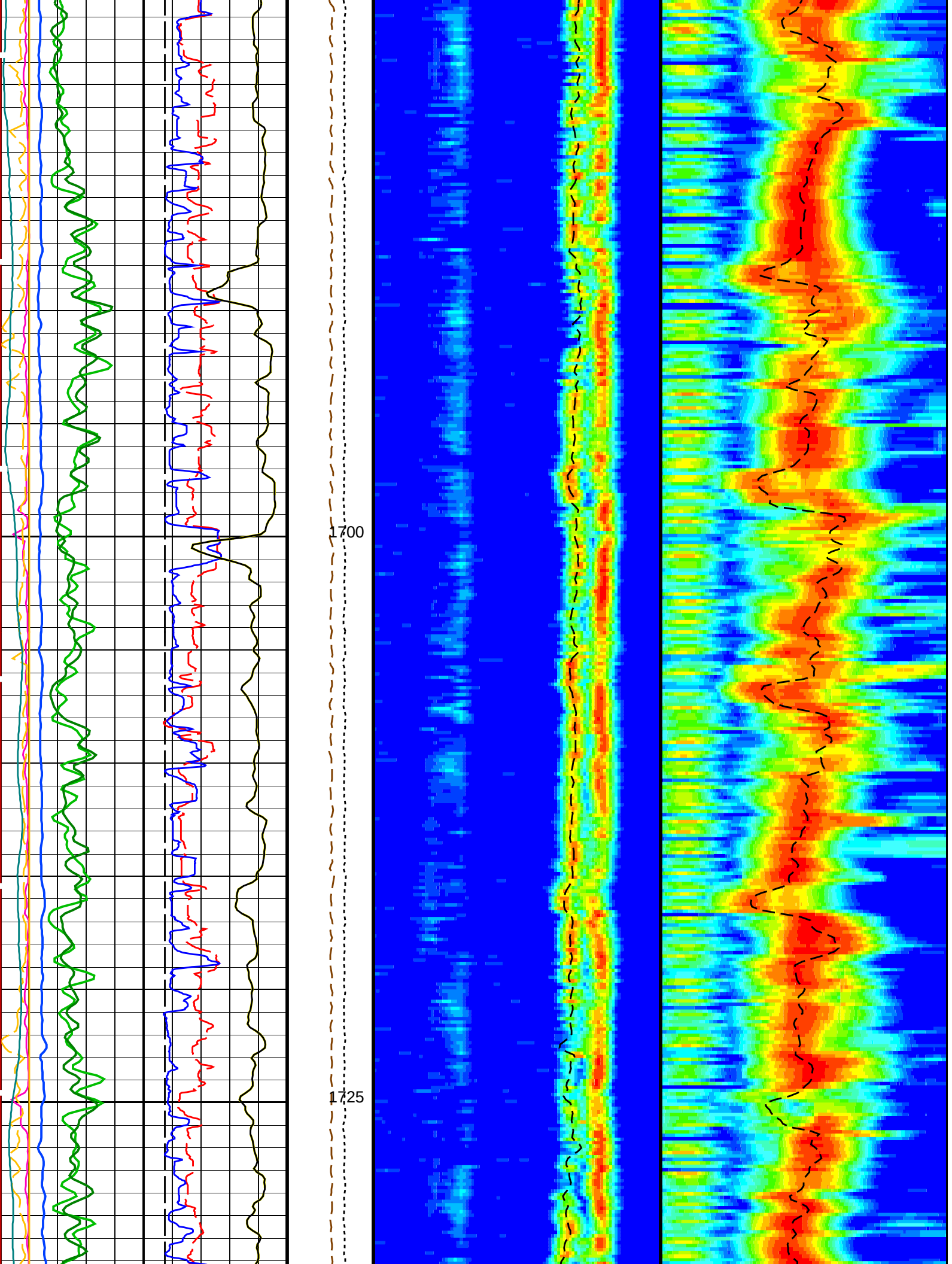
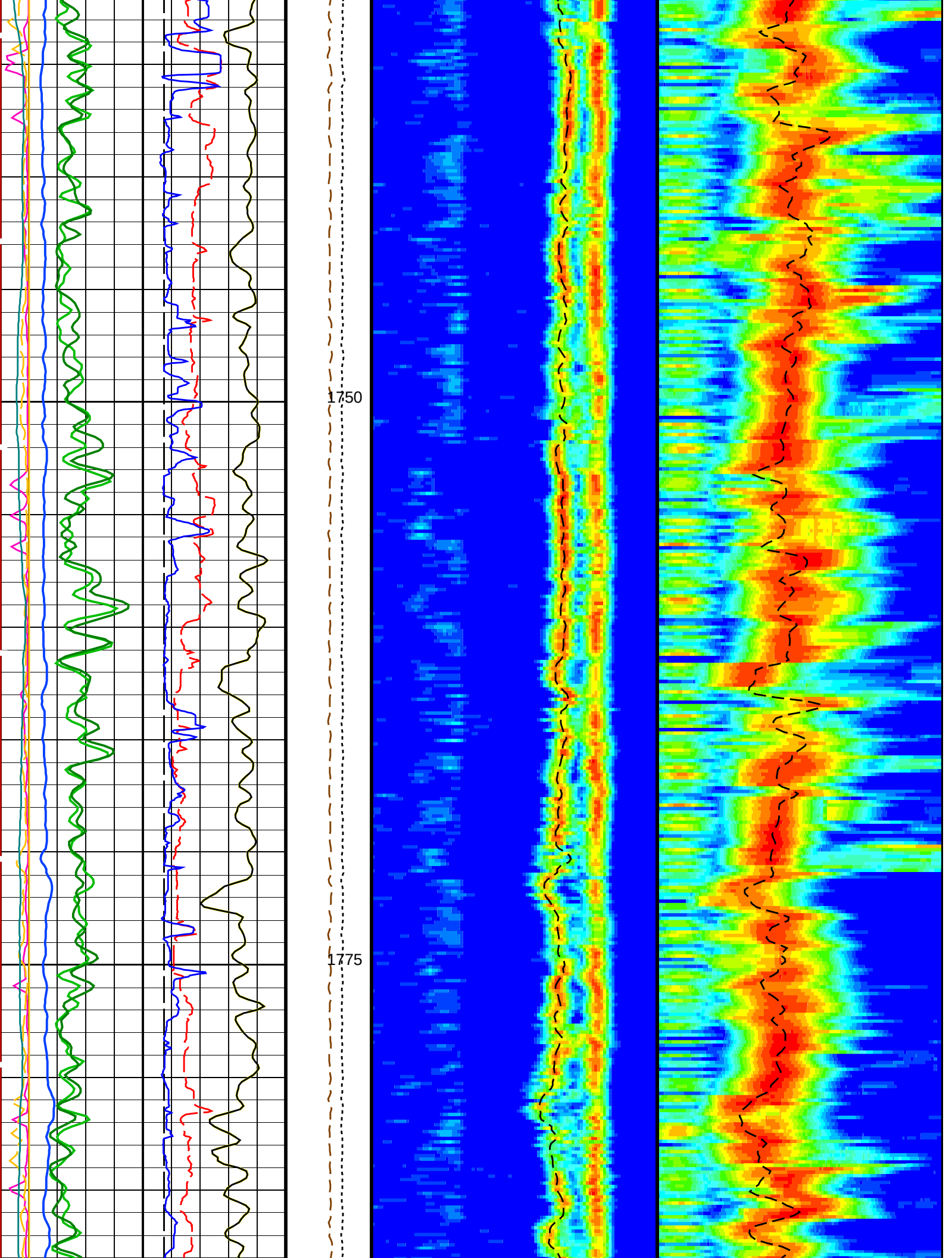
1650
1675


1700
1725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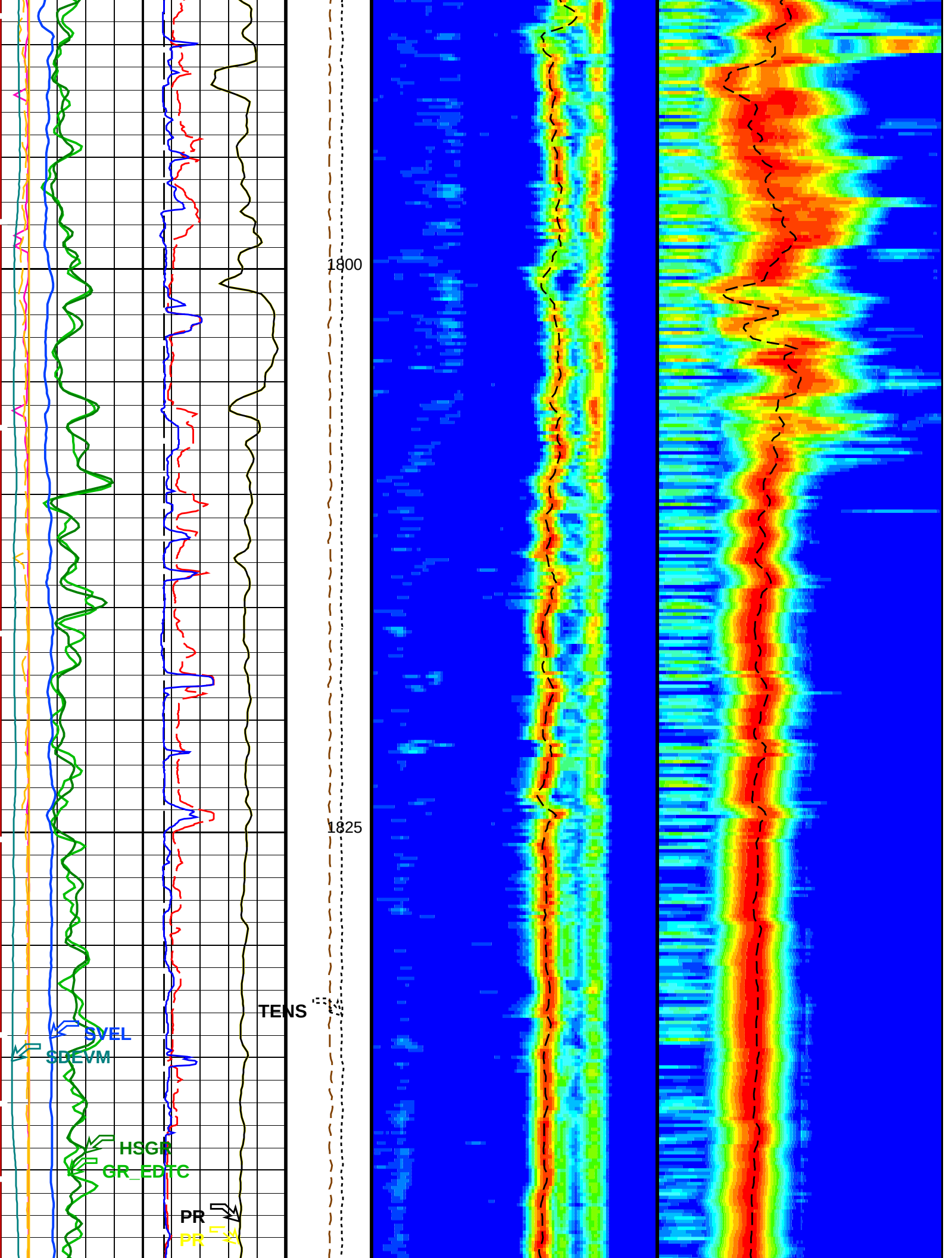
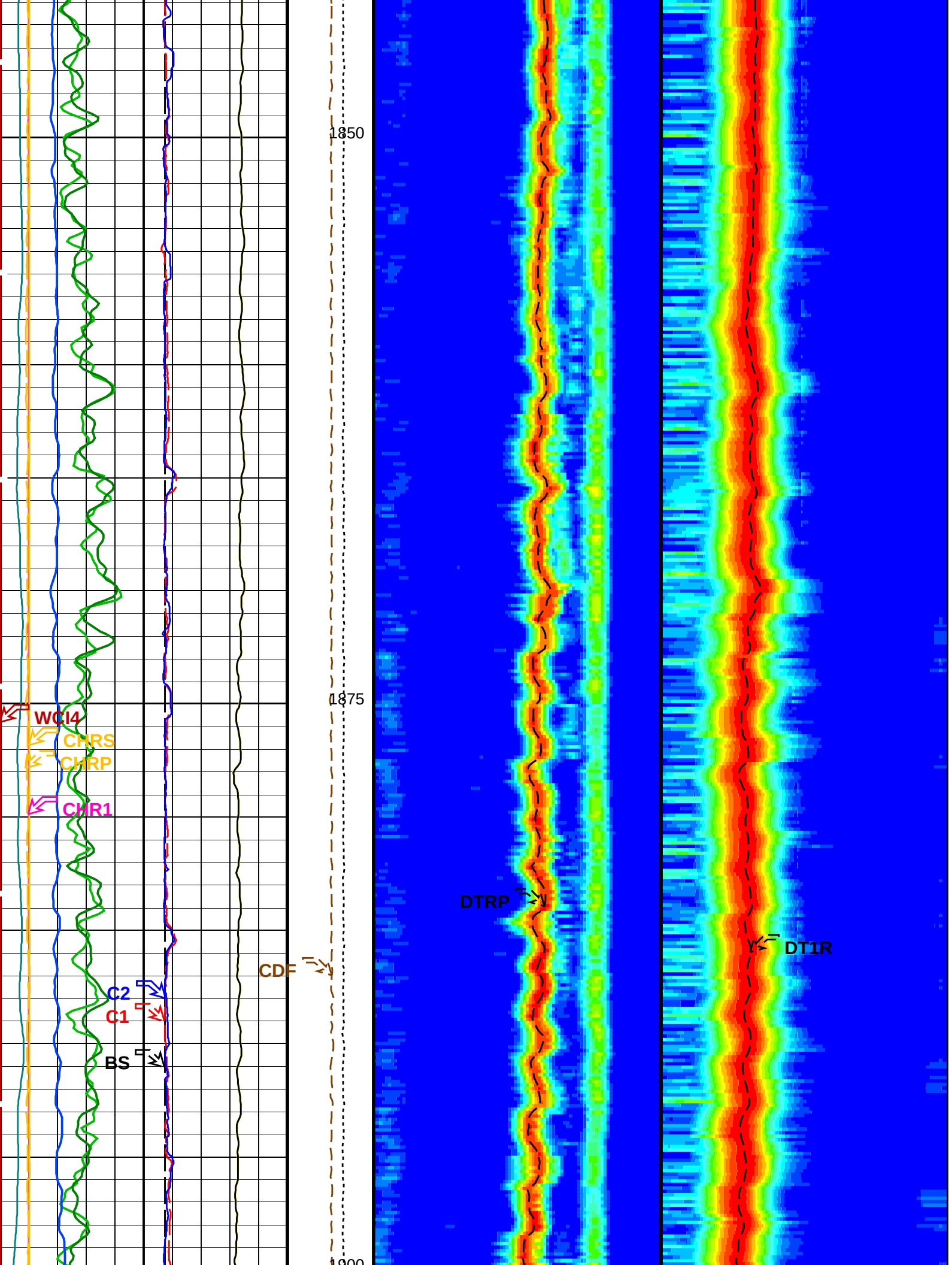
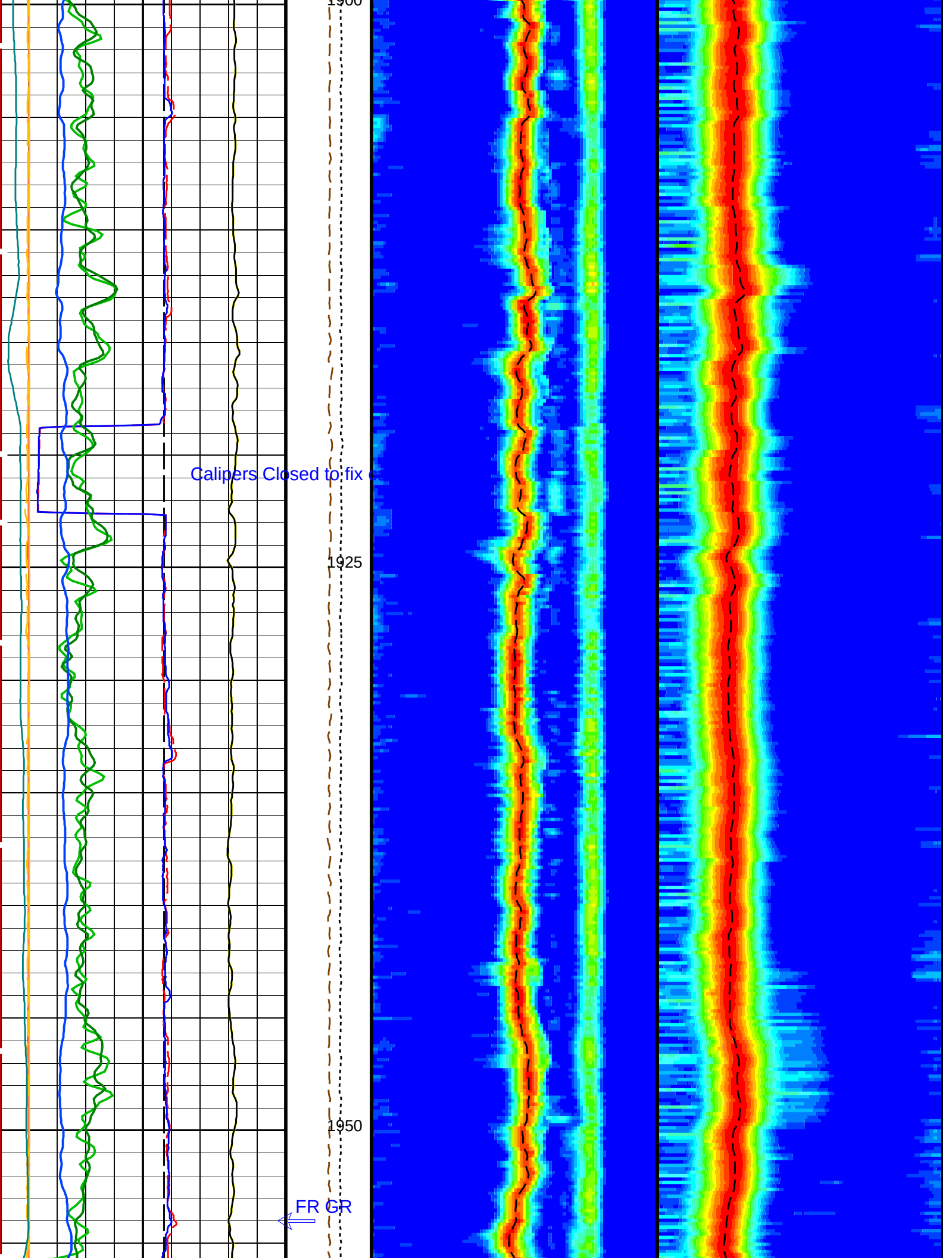
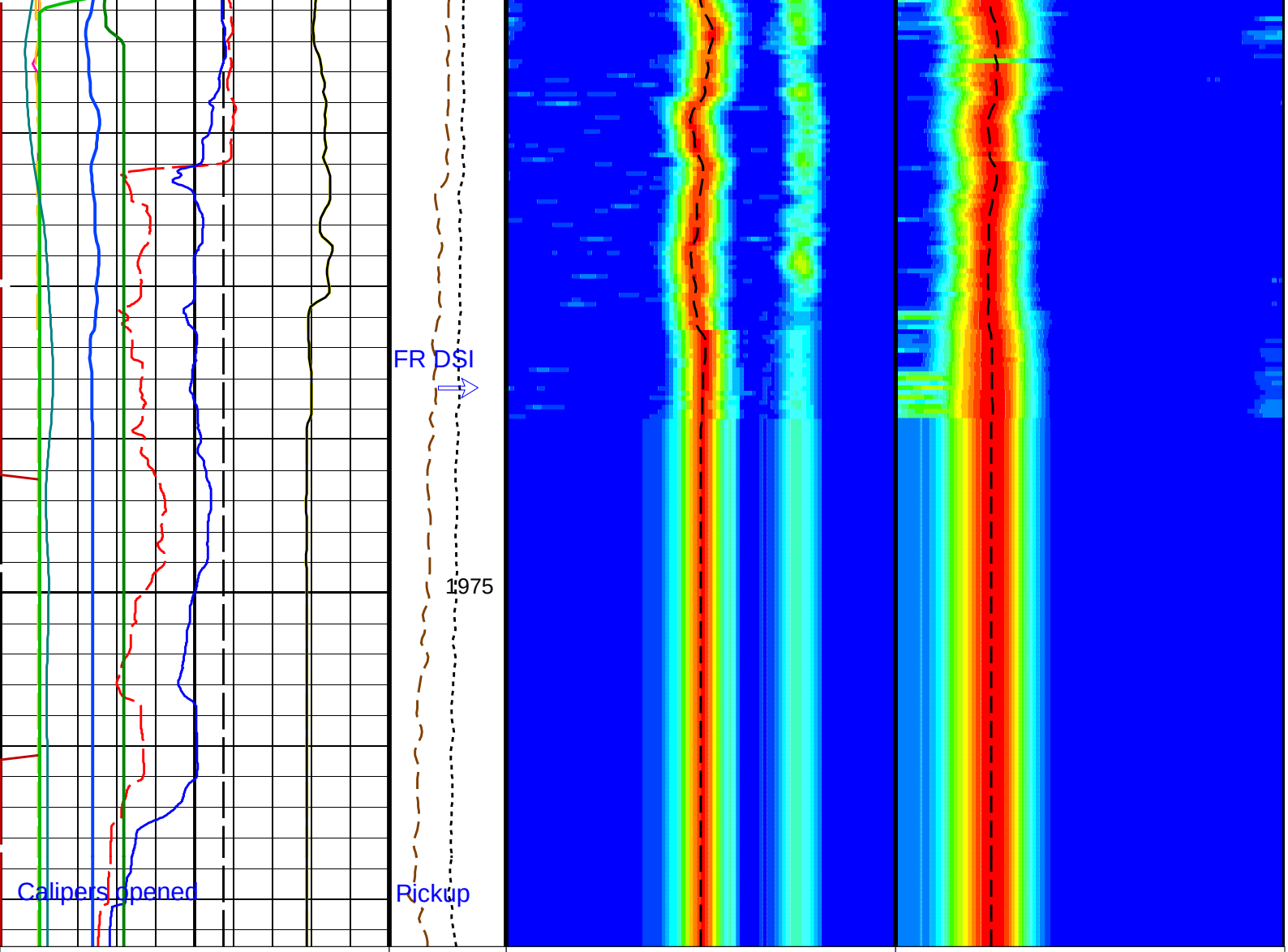
1775


1800
1825
TENS
SVEL
SDEVM
HSGR
GR_EDTC
PR
PR


1850
1875
1900
WCl4
CHRS
CHRP
CHR1
C2
C1
BS
CDF
DTRP
DT1R


1900
Calipers Closed to fix c
1925
1950
FR GR




Bit Size (BS)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Poisson's Ratio (PR)
0 (----) 0.5

Sonde Deviation (SDEVM)
0 (DEG) 10

Poisson's Ratio (PR)
0 (----) 0.5

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Sonic Velocity (SVEL)
1000 (M/S) 6000

Peak Coherence / RA – Lower Dipole

Tension (TENS) (LBF)
10000 0

Calibrated Downhole Force (CDF) (LBF)
3000 0

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 – Lower Dipole (DT1R)
75 (US/F) 1200

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

Uplog #2, P&S Compressional, Lower Dipole Shear

Peak Coherence / RA − Lower Dipole (CHR1)

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

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

**PIP SUMMARY**

Time Mark Every 60 S

## Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | **MEST−B: Micro Electrical Scanner − B (Slim)** | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| | **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 | 130 | US/F |
| COUL | Label Slowness Upper Limit − Monopole P&S Compressional | 187 | US/F |
| DDE1 | Digitizing Delay 1 | 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 | 200 | US/F |
| DSHU | Label Slowness Upper Limit − Dipole Shear | 1200 | US/F |
| DSI1 | Digitizer Sample Interval 1 | 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 |
| DTSS | Shear Delta−T Source for DTSM Channel | UPPER_DIPOLE | |
| DWC1 | Digitizer Word Count 1 | 512 | |
| DWC4 | Digitizer Word Count 4 | 512 | |
| DWCX | Digitizer Word Count X | 512 | |
| FILG | Label Fill Gap Control − Monopole P&S | COMP_SHEAR | |
| GCSE | Generalized Caliper Selection | BS | |
| LFC | Label Formation Character − Monopole P&S | DYNAMIC | |
| LTXG | Lower Dipole Transmitter Geometry | 156 | IN |
| MCS | Mean Casing Slowness | 57 | US/F |
| MTXG | Monopole Transmitter Geometry | 186 | IN |
| NWI1 | Number Waveform Items 1 | 8 | |
| NWI4 | Number Waveform Items 4 | 8 | |
| NWIX | Number Waveform Items X | 0 | |
| RSMN | Label Shear/Compressional Minimum Ratio − Monopole P&S | 1.4 | |
| RSMX | Label Shear/Compressional Maximum Ratio − Monopole P&S | 2.12 | |
| RX1G | Receiver 1 Geometry | 294 | IN |
| RX2G | Receiver 2 Geometry | 300 | IN |
| RX3G | Receiver 3 Geometry | 306 | IN |
| RX4G | Receiver 4 Geometry | 312 | IN |
| RX5G | Receiver 5 Geometry | 318 | IN |
| RX6G | Receiver 6 Geometry | 324 | IN |
| RX7G | Receiver 7 Geometry | 330 | IN |
| RX8G | Receiver 8 Geometry | 336 | IN |
| SAM1 | DSST Sonic Acquisition Mode 1 − Lower Dipole Mode | LFD_EVEN | |
| SAM4 | DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S | EVEN | |
| SAMX | DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert | OFF | |
| SAS1 | STC Sonic Array Status − Lower Dipole | 255 | |
| SAS4 | STC Sonic Array Status − Monopole P&S | 255 | |
| SBO1 | STC Search Band Offset − Lower Dipole | 3000 | US |
| SBO4 | STC Search Band Offset − Monopole P&S | 500 | US |
| SBR4 | STC Baseline Removal − Monopole P&S | ON | |
| SBW1 | STC Search Bandwidth − Lower Dipole | 8000 | US |

| | | | |
|---|---|---|---|
| SBW4 | STC Search Bandwidth − Monopole P&S | 2000 | US |
| SFC1 | STC Formation Character − Lower Dipole | SELECTABLE | |
| SFC4 | STC Formation Character − Monopole P&S | SELECTABLE | |
| SFM1 | STC Filter − Lower Dipole | B.3−1.5K | |
| SFM4 | STC Filter − Monopole P&S | B3−20K | |
| SHLL | Label Slowness Lower Limit − Monopole P&S Shear | 235 | US/F |
| SHUL | Label Slowness Upper Limit − Monopole P&S Shear | 240 | US/F |
| SLL1 | STC Slowness Lower Limit − Lower Dipole | 75 | US/F |
| SLL4 | STC Slowness Lower Limit − Monopole P&S | 40 | US/F |
| SST1 | STC Slowness Step − Lower Dipole | 4 | US/F |
| SST4 | STC Slowness Step − Monopole P&S | 2 | US/F |
| SSW1 | STC Source Waveform − Lower Dipole | WF_SAM1 | |
| 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 |
| SUL1 | STC Slowness Upper Limit − Lower Dipole | 1200 | US/F |
| SUL4 | STC Slowness Upper Limit − Monopole P&S | 240 | US/F |
| SWD1 | STC Slowness Width − Lower Dipole | 40 | US/F |
| SWD4 | STC Slowness Width − Monopole P&S | 10 | US/F |
| TBF1 | STC Time for Baseline Fill − Lower Dipole | 0 | US |
| TBF4 | STC Time for Baseline Fill − Monopole P&S | 300 | US |
| TLL1 | STC Time Lower Limit − Lower Dipole | 600 | US |
| TLL4 | STC Time Lower Limit − Monopole P&S | 150 | US |
| TST1 | STC Time Step − Lower Dipole | 200 | US |
| TST4 | STC Time Step − Monopole P&S | 50 | US |
| TUL1 | STC Time Upper Limit − Lower Dipole | 20440 | US |
| TUL4 | STC Time Upper Limit − Monopole P&S | 3660 | US |
| TWD1 | STC Time Width − Lower Dipole | 2000 | US |
| TWD4 | STC Time Width − Monopole P&S | 1000 | US |
| TWI1 | STC Integration Time Window − Lower Dipole | 1600 | US |
| TWI4 | STC Integration Time Window − Monopole P&S | 500 | US |
| TWSX | Transmitter Waveform Select X | 0 | |
| WFM4 | Waveform Mode 4 | W1 | |
| | **HNGS−BA: Hostile Natural Gamma Ray Sonde** | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.000873556 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.04988 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.00338 | |
| | **EDTC−B: Enhanced DTS Cartridge** | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | **System and Miscellaneous** | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

**Format: DSST_P_S_LOWER_VDL_COLOR  Vertical Scale: 1:200  Graphics File Created: 25−Oct−2016 07:56**

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_024LUP | FN:42 | 24−Oct−2016 09:02 | 1986.5 M | 1496.4 M |

## Output DLIS Files

| | | | | |
|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_034PUP | FN:51 | PRODUCER | 25−Oct−2016 07:56 |

Company: International Ocean Discovery Program | Well: Expedition 363, Site U1482C

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_023LUP | FN:40 | 24−Oct−2016 07:45 | 1991.1 M | 1604.8 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_033PUP | FN:50 | PRODUCER | 25−Oct−2016 07:53 | 1991.1 M | 1604.9 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Poisson's Ratio (PR)
0 (−−−−) 0.5

Sonic Velocity (SVEL)
1000 (M/S) 6000

Sonde Deviation (SDEVM)
0 (DEG) 10

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 1 (C1)
0 (IN) 20

Uplog 1

P&S Compressional and Upper Dipole Shear

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

Caliper 2 (C2)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
3000 0

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

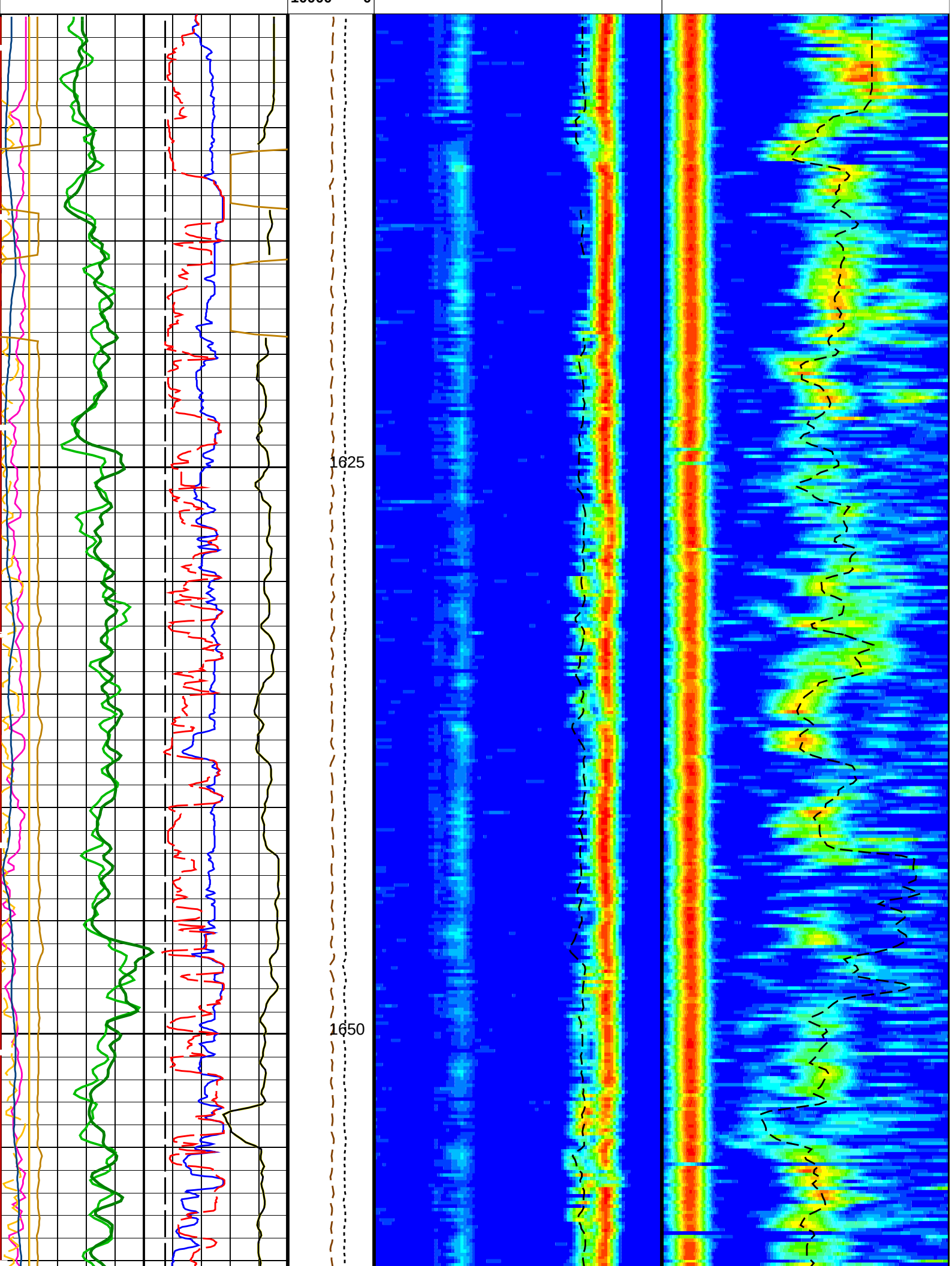
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

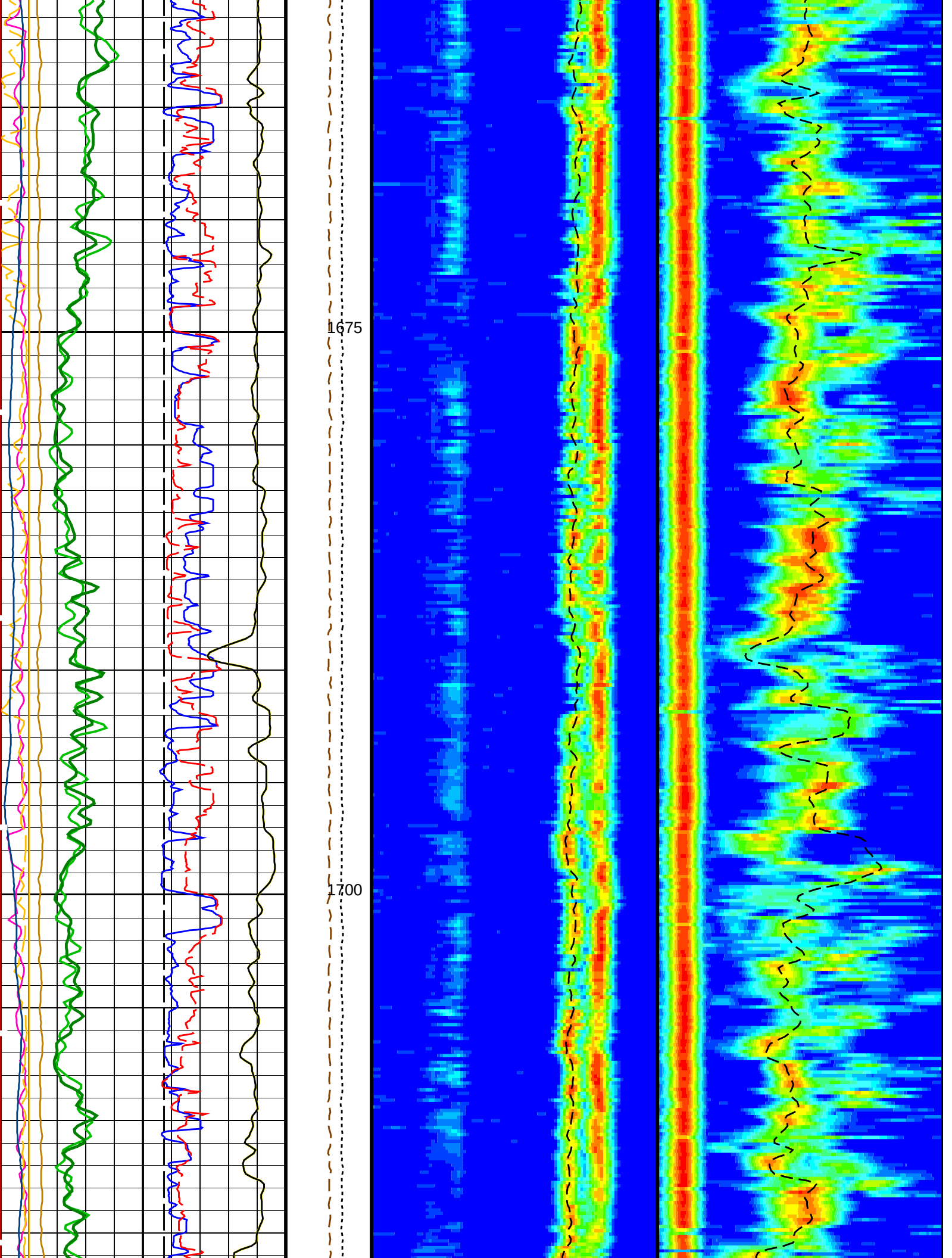
Bit Size (BS)
0 (IN) 20

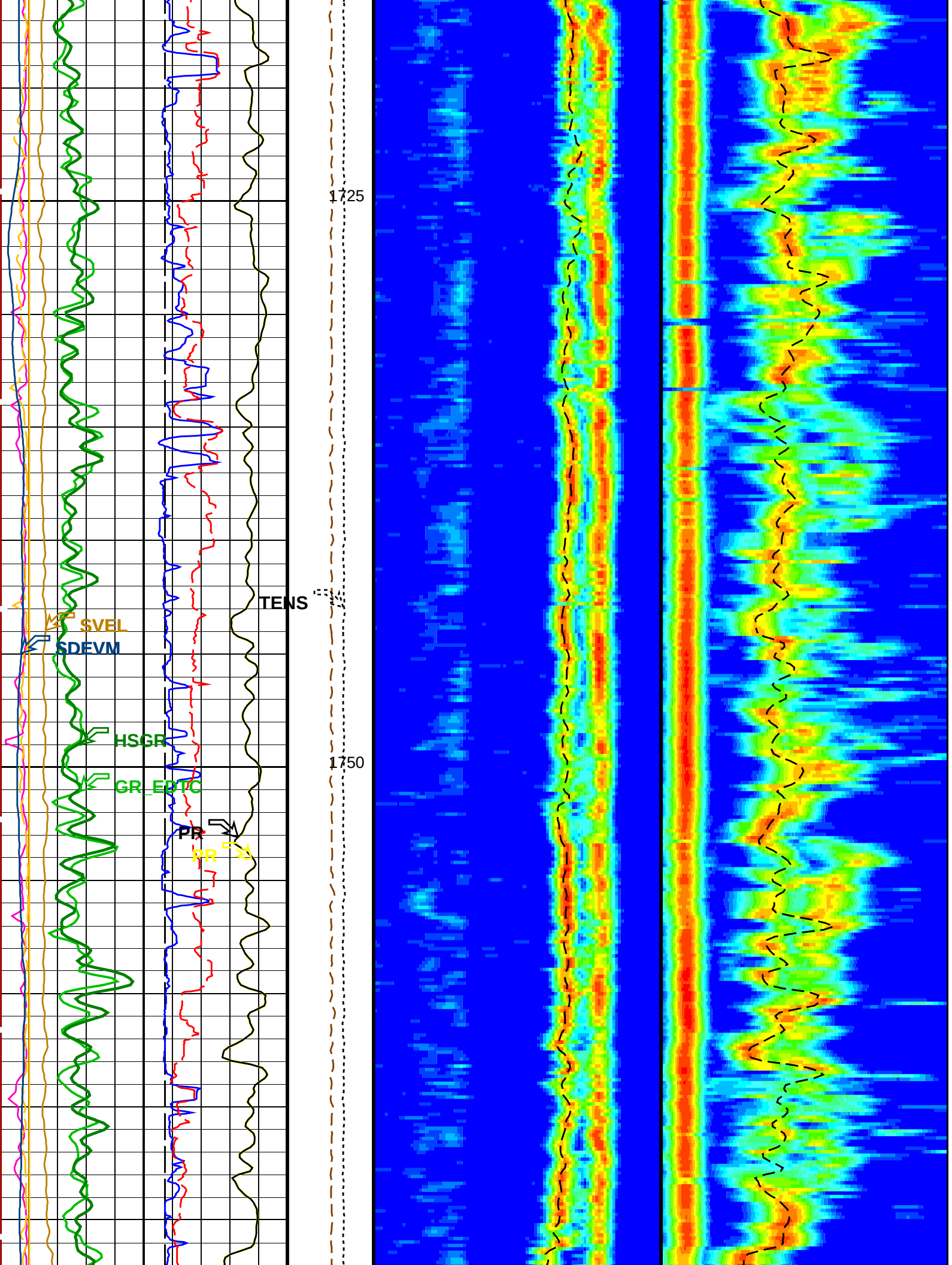
Tension (TENS) (LBF)
10000 0

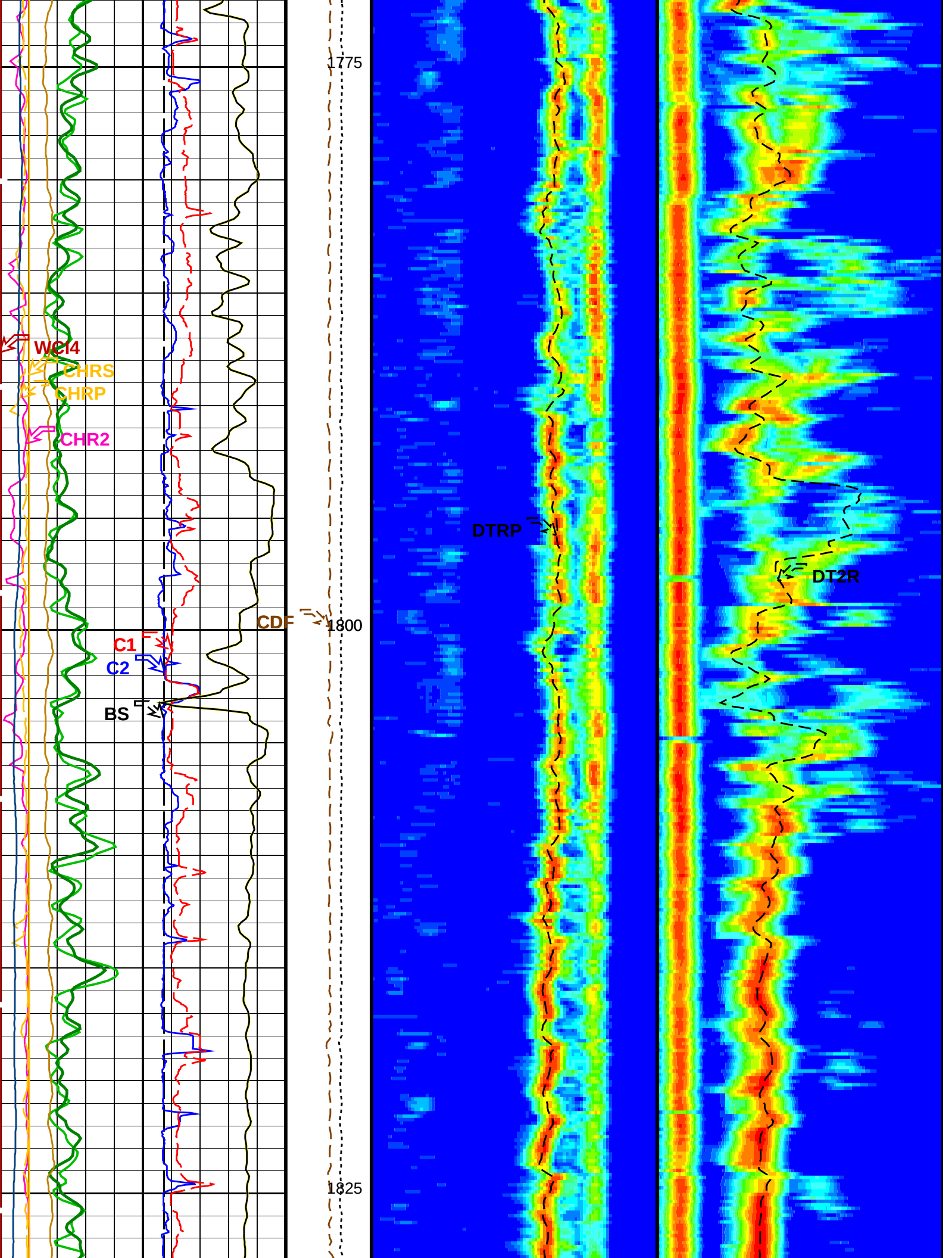
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

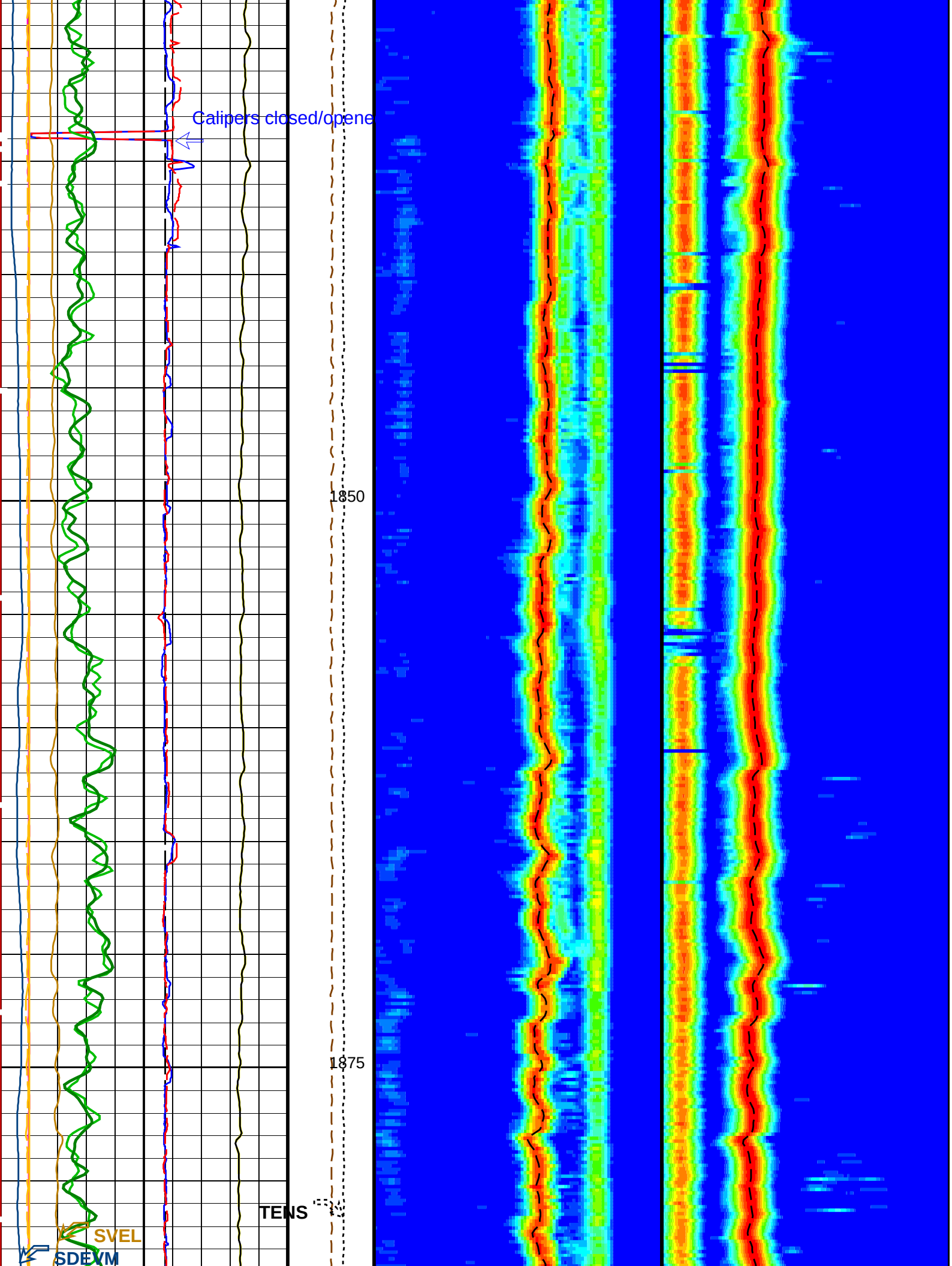
Delta−T Shear / RA − Upper Dipole (DT2R)
75 (US/F) 1200

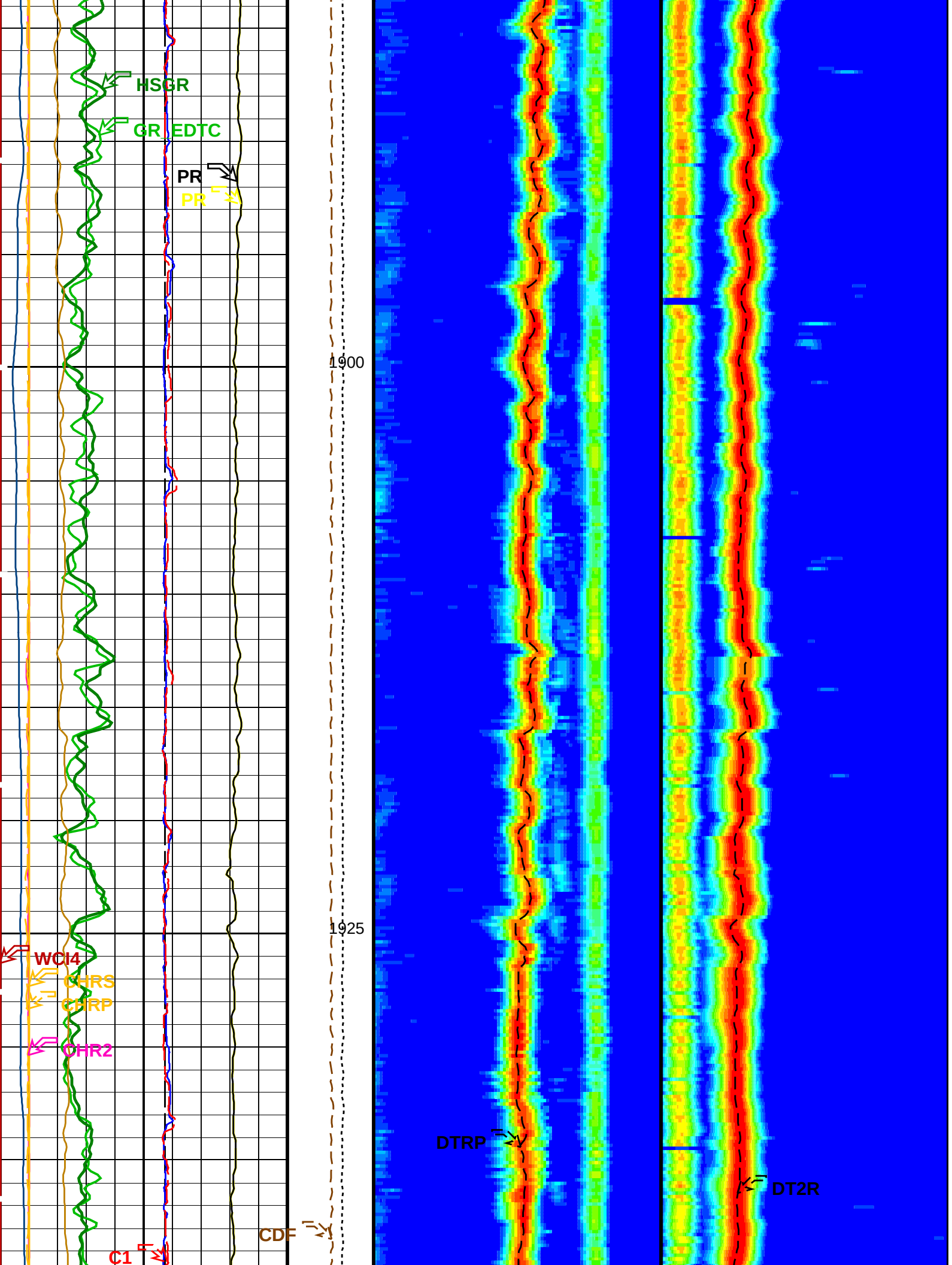

1625
1650

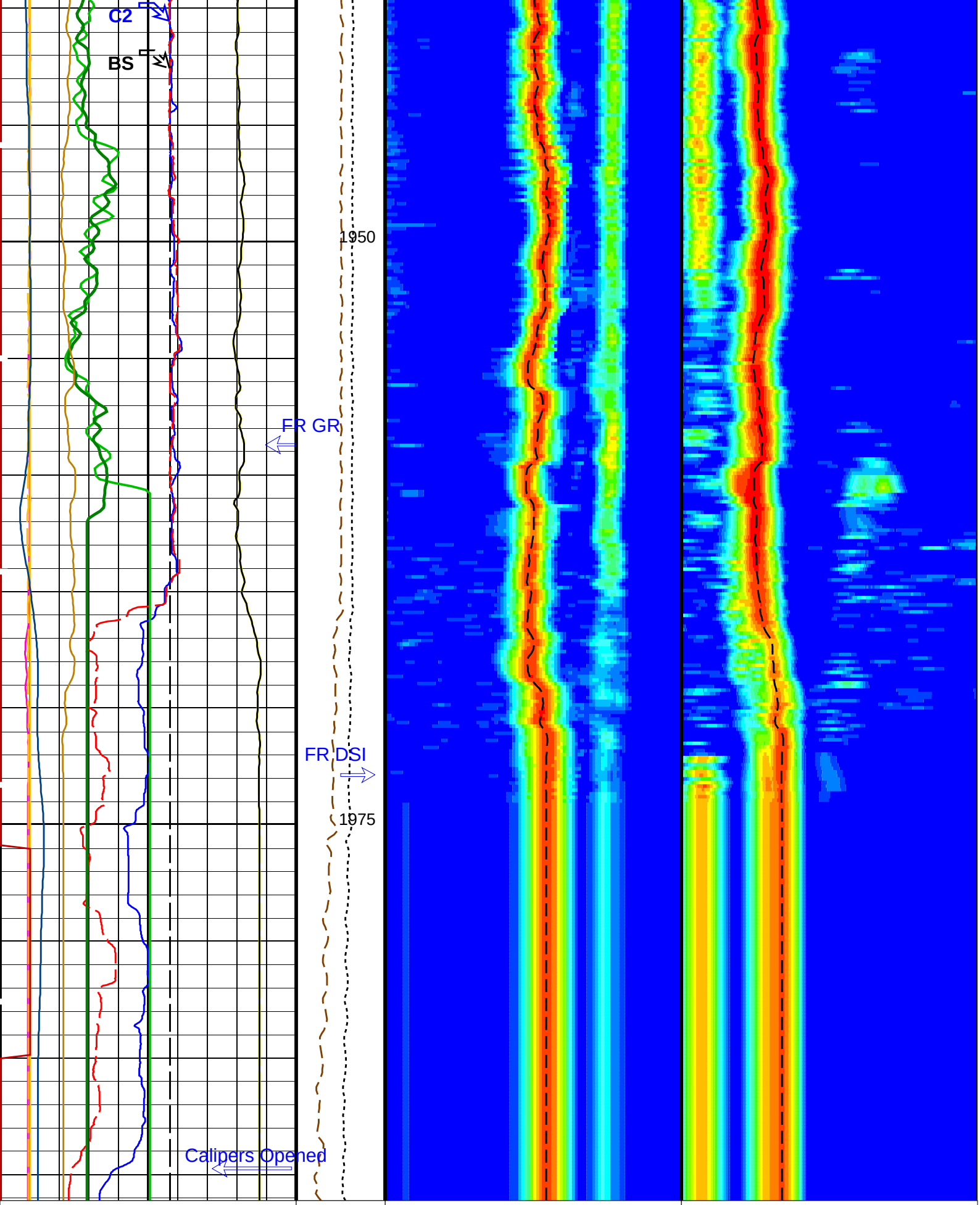

1675
1700


1725
TENS
SVEL
SDEVM
HSGR
1750
GR_EDTC
PR
PR

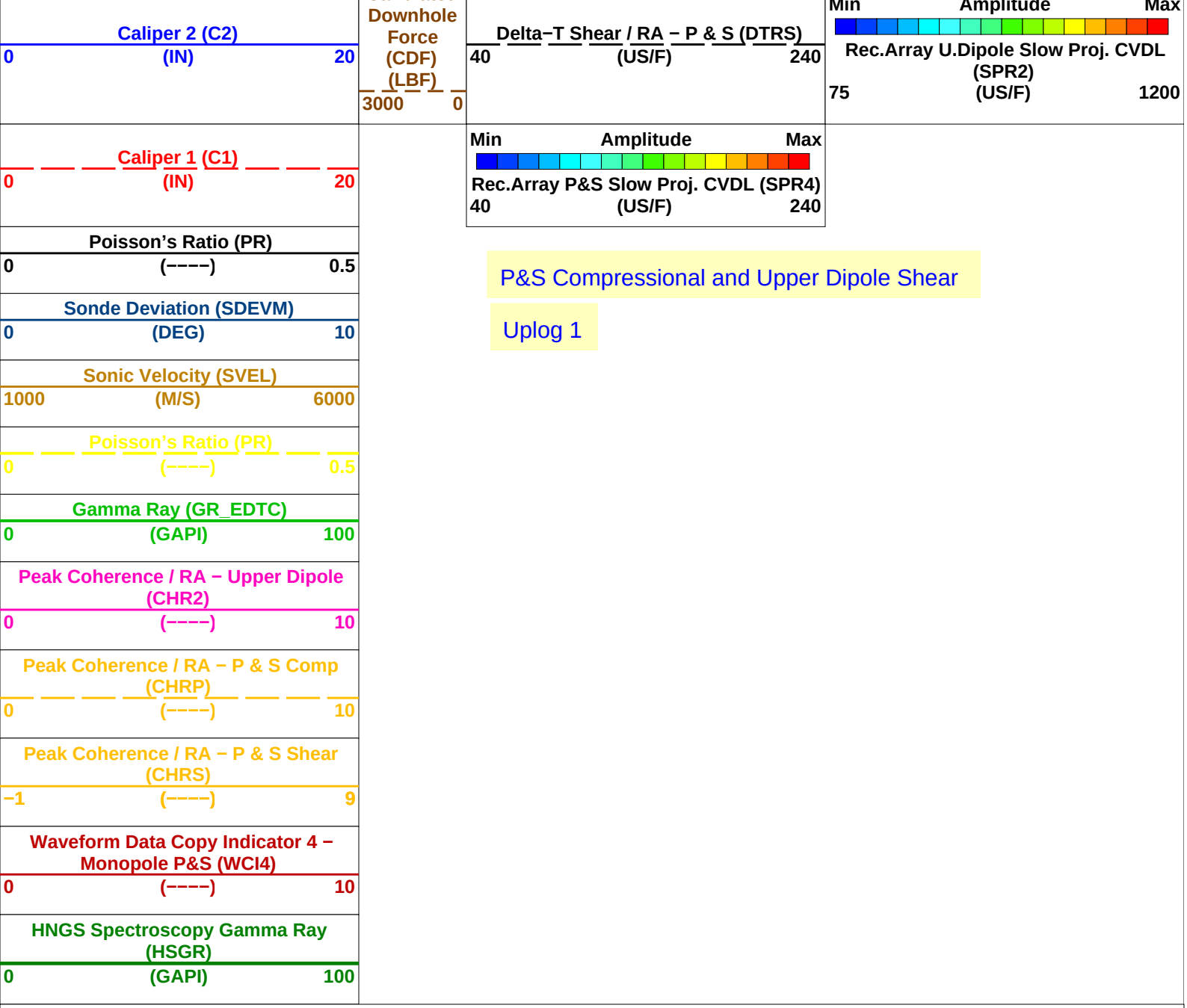

1775
1800
1825
WCI4
CHRS
CHRP
CHR2
CDF
C1
C2
BS
DTRP
DT2R


Calipers closed/opene
1850
1875
TENS
SVEL
SDEVM


HSGR
GR_EDTC
PR
PR
1900
1925
WCI4
CHRS
CHRP
CHR2
DTRP
DT2R
CDF
C1




| Bit Size (BS) | Tension (TENS) | Delta−T Comp / RA − P & S (DTRP) | Delta−T Shear / RA − Upper Dipole (DT2R) |
|---|---|---|---|
| 0 (IN) 20 | 10000 (LBF) 0 | 40 (US/F) 240 | 75 (US/F) 1200 |
| | Calibrated | | |




**PIP SUMMARY**

**Time Mark Every 60 S**

## Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | **MEST−B: Micro Electrical Scanner − B (Slim)** | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| | **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 | 130 | US/F |
| COUL | Label Slowness Upper Limit − Monopole P&S Compressional | 187 | 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 | 200 | 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 | 40 | US |
| DTCS | Compressional Delta−T Source for DTCO Channel | PS_COMP | |
| DTF | Delta−T Fluid | 189 | US/F |
| DTSS | Shear Delta−T Source for DTSM Channel | UPPER_DIPOLE | |
| 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 | |
| GCSE | Generalized Caliper Selection | BS | |
| LFC | Label Formation Character − Monopole P&S | DYNAMIC | |
| MCS | Mean Casing Slowness | 57 | US/F |
| MTXG | Monopole Transmitter Geometry | 186 | IN |
| NWI2 | Number Waveform Items 2 | 8 | |
| NWI4 | Number Waveform Items 4 | 8 | |
| NWIX | Number Waveform Items X | 0 | |
| RSMN | Label Shear/Compressional Minimum Ratio − Monopole P&S | 1.4 | |
| RSMX | Label Shear/Compressional Maximum Ratio − Monopole P&S | 2.12 | |
| RX1G | Receiver 1 Geometry | 294 | IN |
| RX2G | Receiver 2 Geometry | 300 | IN |
| RX3G | Receiver 3 Geometry | 306 | IN |
| RX4G | Receiver 4 Geometry | 312 | IN |
| RX5G | Receiver 5 Geometry | 318 | IN |
| RX6G | Receiver 6 Geometry | 324 | IN |
| RX7G | Receiver 7 Geometry | 330 | IN |
| RX8G | Receiver 8 Geometry | 336 | IN |
| SAM2 | DSST Sonic Acquisition Mode 2 − Upper Dipole Mode | ODD | |
| SAM4 | DSST Sonic Acquisition Mode 4 − 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 | B1−2K | |
| SFM4 | STC Filter − Monopole P&S | B3−20K | |
| SHLL | Label Slowness Lower Limit − Monopole P&S Shear | 235 | 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 | 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 | 600 | 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 | |
| HNGS−BA: Hostile Natural Gamma Ray Sonde | | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.000870016 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |

| | | | |
|---|---|---|---|
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.04989 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.00333 | |
| | EDTC−B: Enhanced DTS Cartridge | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | System and Miscellaneous | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

Format: DSST_P_S_UPPER_VDL_COLOR  Vertical Scale: 1:200  Graphics File Created: 25−Oct−2016 07:54

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_023LUP | FN:40 | 24−Oct−2016 07:45 | 1991.1 M | 1604.8 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_033PUP | FN:50 | PRODUCER | 25−Oct−2016 07:53 | | |

Company: International Ocean Discovery Program  Well: Expedition 363, Site U1482C

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_023LUP | FN:40 | 24−Oct−2016 07:45 | 1991.1 M | 1604.8 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_033PUP | FN:50 | PRODUCER | 25−Oct−2016 07:53 | 1991.1 M | 1604.9 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## PIP SUMMARY

Time Mark Every 60 S

| | | |
|---|---|---|
| HNGS Spectroscopy Gamma Ray (HSGR) | | |
| 0 | (GAPI) | 100 |
| 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 − Lower Dipole (CHR1) | | |
| 0 | (−−−−) | 10 |
| Sonic Velocity (SVEL) | | |
| 1000 | (M/S) | 6000 |
| Gamma Ray (GR_EDTC) | | |

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Poisson's Ratio (PR)
0 (−−−−) 0.5

Sonde Deviation (SDEVM)
0 (DEG) 10

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Uplog #1 P&S Compressional, Lower Dipole Shear

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

Calibrated Downhole Force (CDF) (LBF)
3000 0

Tension (TENS) (LBF)
10000 0

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

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

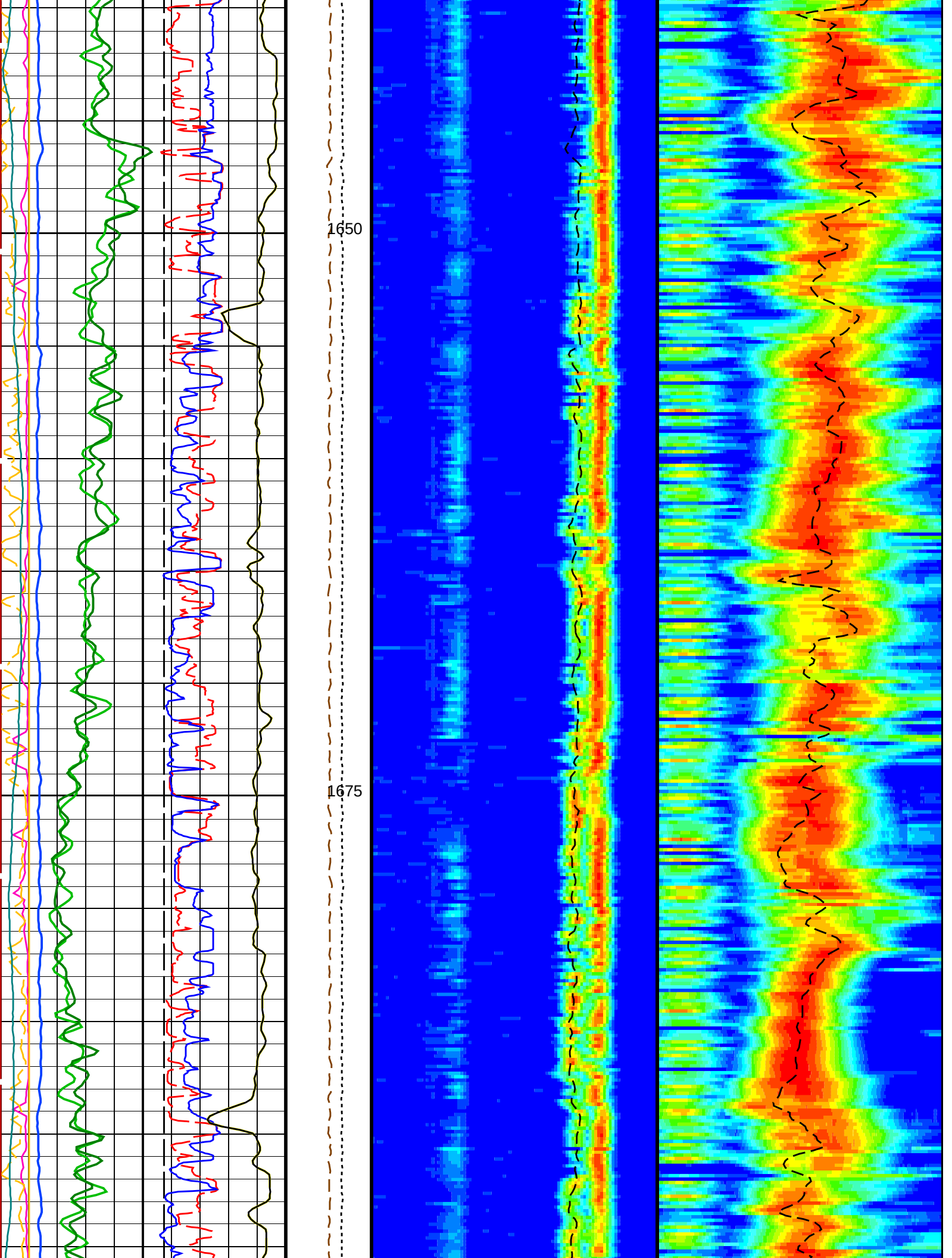
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

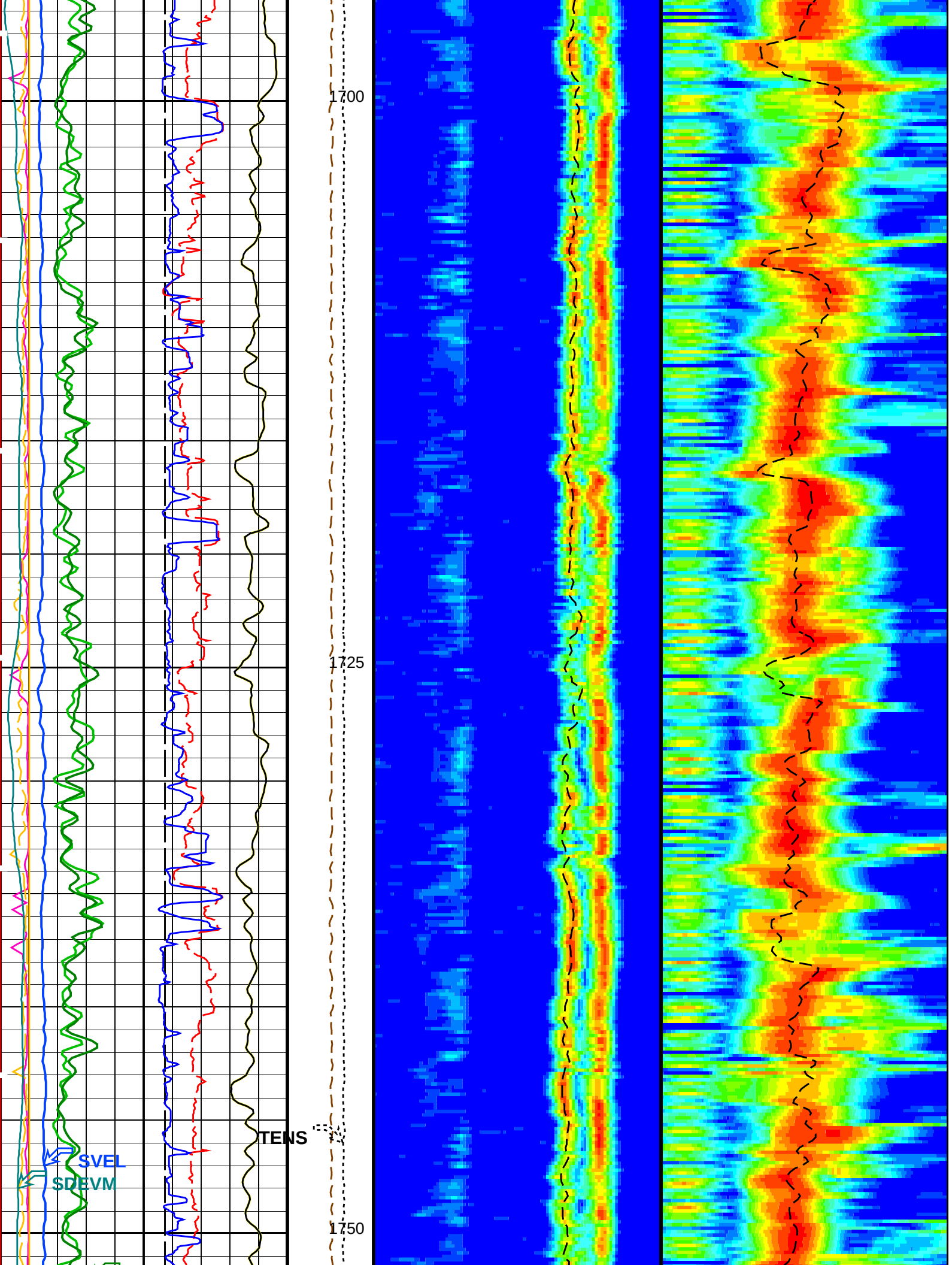
Delta−T Shear / RA − Lower Dipole (DT1R)
75 (US/F) 1200

Calipers closed to fix cable wraps

Calipers closed to fix cable wraps

1625


1650
1675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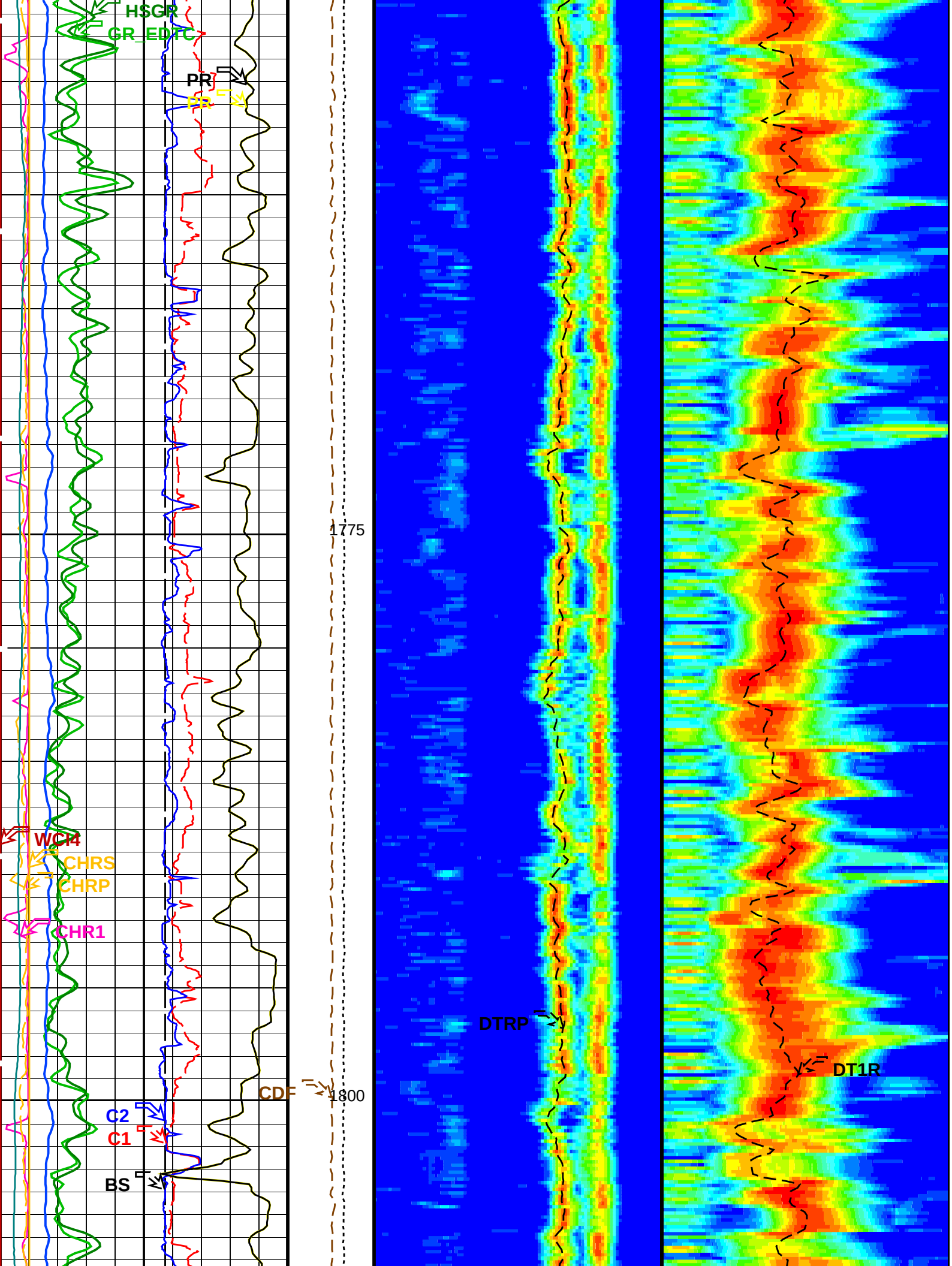
1725
1750
TENS
SVEL
SDEVM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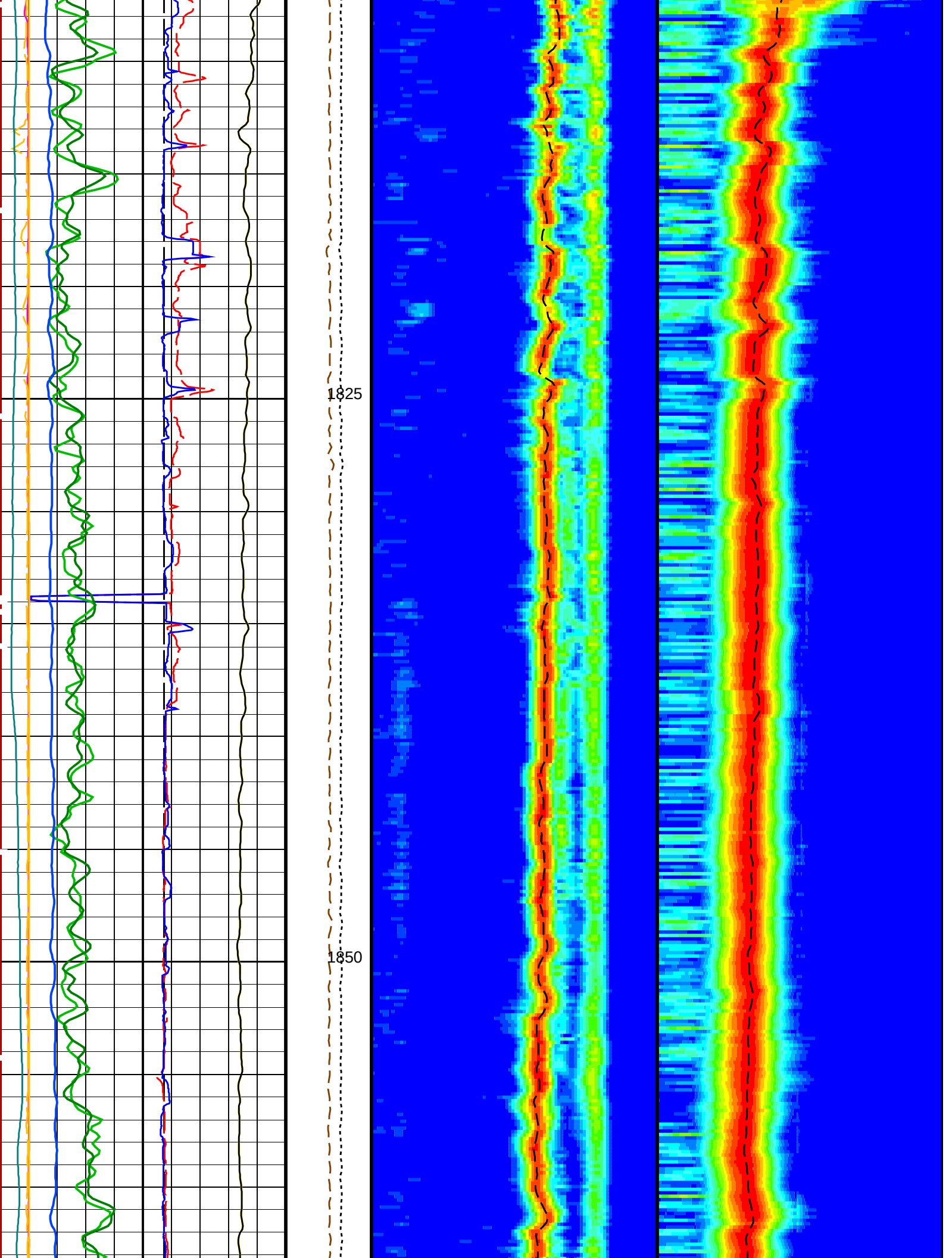
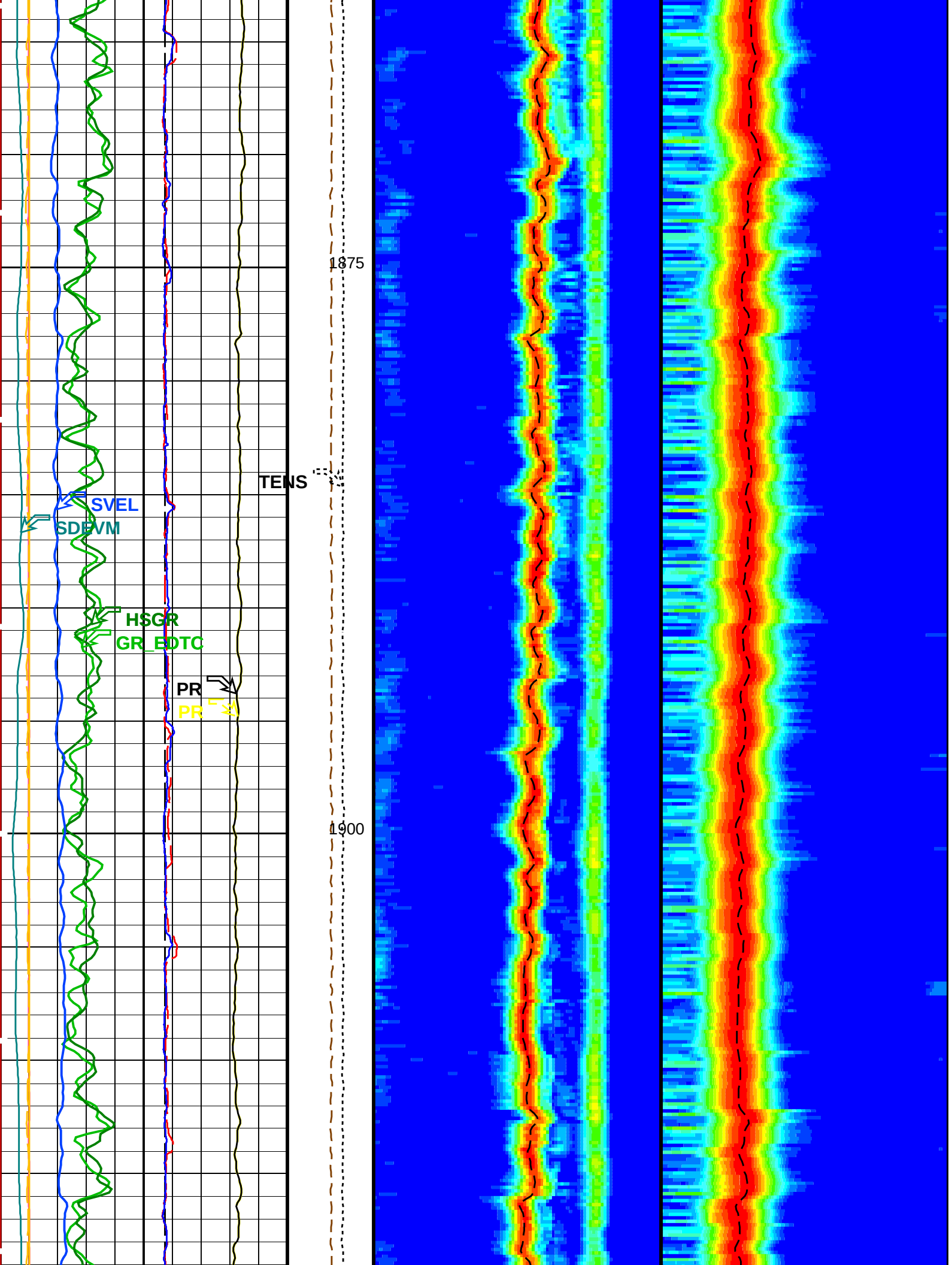
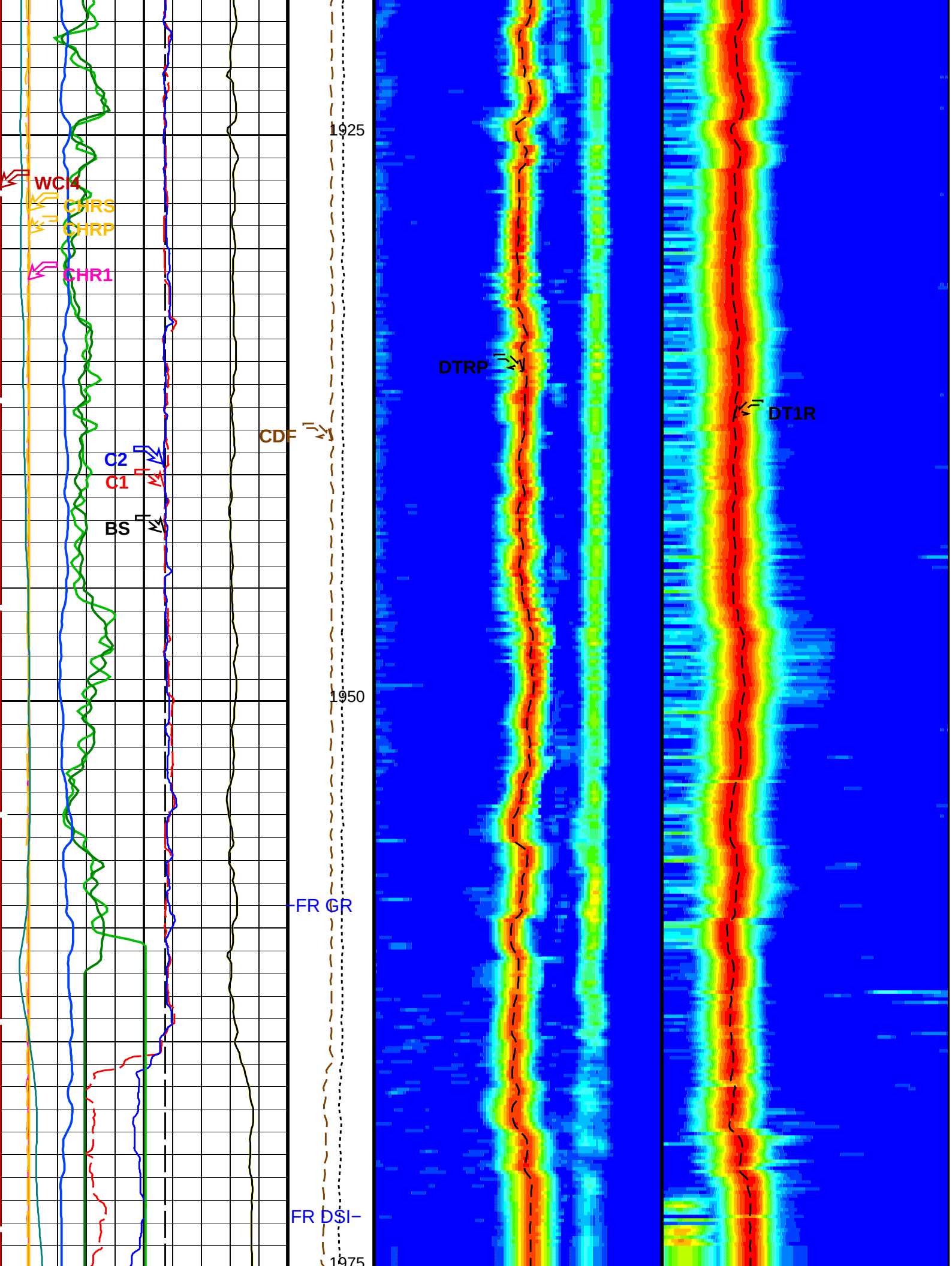
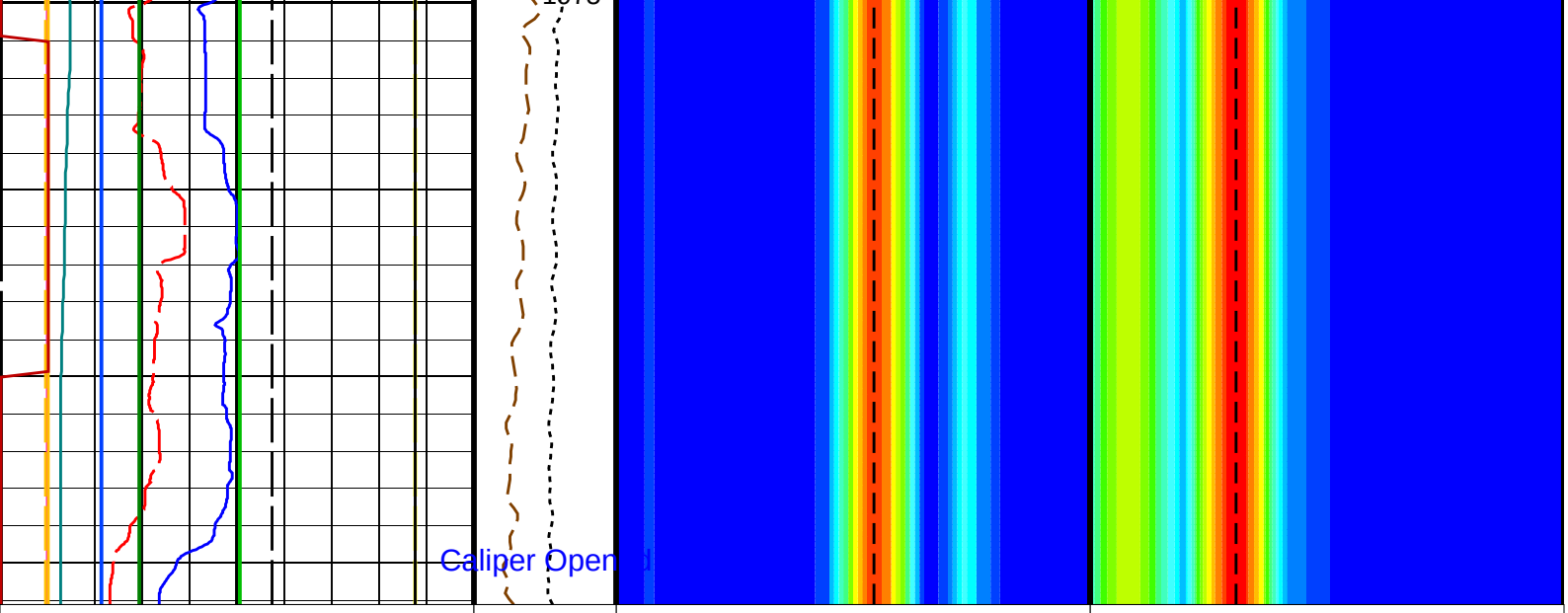
GR_EDTC
PR
WCH4
CHRS
CHRP
CHR1
CDF
C2
C1
BS
1775
1800
DTRP
DT1R


1825
1850


1875
TENS
SVEL
SDEVM
HSGR
GR_EDTC
PR
PR
1900


1925
1950
1975
WC14
CHRS
CHRP
CHR1
C2
C1
BS
CDF
FR GR
FR DSI
DTRP
DT1R




| | | |
|---|---|---|
| Bit Size (BS)<br>0 (IN) 20 | Tension (TENS) (LBF)<br>10000 0 | Delta−T Comp / RA − P & S (DTRP)<br>40 (US/F) 240 |
| Caliper 1 (C1)<br>0 (IN) 20 | Calibrated Downhole Force (CDF) (LBF)<br>3000 0 | Delta−T Shear / RA − P & S (DTRS)<br>40 (US/F) 240 |
| Caliper 2 (C2)<br>0 (IN) 20 | | Min Amplitude Max<br>Rec.Array P&S Slow Proj. CVDL (SPR4)<br>40 (US/F) 240 |
| Poisson's Ratio (PR)<br>0 (−−−−) 0.5 | | |
| Sonde Deviation (SDEVM)<br>0 (DEG) 10 | | |
| Poisson's Ratio (PR)<br>0 (−−−−) 0.5 | | |
| Gamma Ray (GR_EDTC)<br>0 (GAPI) 100 | | |
| Sonic Velocity (SVEL)<br>1000 (M/S) 6000 | | |
| Peak Coherence / RA − Lower Dipole (CHR1)<br>0 (−−−−) 10 | | |
| Peak Coherence / RA − P & S Comp (CHRP)<br>0 (−−−−) 10 | | |
| Peak Coherence / RA − P & S Shear (CHRS)<br>−1 (−−−−) 9 | | |
| Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)<br>0 (−−−−) 10 | | |
| HNGS Spectroscopy Gamma Ray (HSGR)<br>0 (GAPI) 100 | | |

| |
|---|
| Delta−T Shear / RA − Lower Dipole (DT1R)<br>75 (US/F) 1200 |
| Min Amplitude Max<br>Rec.Array L.Dipole Slow Proj. CVDL (SPR1)<br>75 (US/F) 1200 |

Uplog #1 P&S Compressional, Lower Dipole Shear

Time Mark Every 60 S

# Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | **MEST−B: Micro Electrical Scanner − B (Slim)** | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| | **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 | 130 | US/F |
| COUL | Label Slowness Upper Limit − Monopole P&S Compressional | 187 | US/F |
| DDE1 | Digitizing Delay 1 | 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 | 200 | US/F |
| DSHU | Label Slowness Upper Limit − Dipole Shear | 1200 | US/F |
| DSI1 | Digitizer Sample Interval 1 | 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 |
| DTSS | Shear Delta−T Source for DTSM Channel | UPPER_DIPOLE | |
| DWC1 | Digitizer Word Count 1 | 512 | |
| DWC4 | Digitizer Word Count 4 | 512 | |
| DWCX | Digitizer Word Count X | 512 | |
| FILG | Label Fill Gap Control − Monopole P&S | COMP_SHEAR | |
| GCSE | Generalized Caliper Selection | BS | |
| LFC | Label Formation Character − Monopole P&S | DYNAMIC | |
| LTXG | Lower Dipole Transmitter Geometry | 156 | IN |
| MCS | Mean Casing Slowness | 57 | US/F |
| MTXG | Monopole Transmitter Geometry | 186 | IN |
| NWI1 | Number Waveform Items 1 | 8 | |
| NWI4 | Number Waveform Items 4 | 8 | |
| NWIX | Number Waveform Items X | 0 | |
| RSMN | Label Shear/Compressional Minimum Ratio − Monopole P&S | 1.4 | |
| RSMX | Label Shear/Compressional Maximum Ratio − Monopole P&S | 2.12 | |
| RX1G | Receiver 1 Geometry | 294 | IN |
| RX2G | Receiver 2 Geometry | 300 | IN |
| RX3G | Receiver 3 Geometry | 306 | IN |
| RX4G | Receiver 4 Geometry | 312 | IN |
| RX5G | Receiver 5 Geometry | 318 | IN |
| RX6G | Receiver 6 Geometry | 324 | IN |
| RX7G | Receiver 7 Geometry | 330 | IN |
| RX8G | Receiver 8 Geometry | 336 | IN |
| SAM1 | DSST Sonic Acquisition Mode 1 − Lower Dipole Mode | LFD_EVEN | |
| SAM4 | DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S | EVEN | |
| SAMX | DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert | OFF | |
| SAS1 | STC Sonic Array Status − Lower Dipole | 255 | |
| SAS4 | STC Sonic Array Status − Monopole P&S | 255 | |
| SBO1 | STC Search Band Offset − Lower Dipole | 3000 | US |
| SBO4 | STC Search Band Offset − Monopole P&S | 500 | US |
| SBR4 | STC Baseline Removal − Monopole P&S | ON | |
| SBW1 | STC Search Bandwidth − Lower Dipole | 8000 | US |
| SBW4 | STC Search Bandwidth − Monopole P&S | 2000 | US |
| SFC1 | STC Formation Character − Lower Dipole | SELECTABLE | |
| SFC4 | STC Formation Character − Monopole P&S | SELECTABLE | |
| SFM1 | STC Filter − Lower Dipole | B.3−1.5K | |
| SFM4 | STC Filter − Monopole P&S | B3−20K | |
| SHLL | Label Slowness Lower Limit − Monopole P&S Shear | 235 | US/F |
| SHUL | Label Slowness Upper Limit − Monopole P&S Shear | 240 | US/F |
| SLL1 | STC Slowness Lower Limit − Lower Dipole | 75 | US/F |
| SLL4 | STC Slowness Lower Limit − Monopole P&S | 40 | US/F |
| SST1 | STC Slowness Step − Lower Dipole | 4 | US/F |
| SST4 | STC Slowness Step − Monopole P&S | 2 | US/F |
| SSW1 | STC Source Waveform − Lower Dipole | WF_SAM1 | |
| 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 |
| SUL1 | STC Slowness Upper Limit − Lower Dipole | 1200 | US/F |
| SUL4 | STC Slowness Upper Limit − Monopole P&S | 240 | US/F |
| SWD1 | STC Slowness Width − Lower Dipole | 40 | US/F |
| SWD4 | STC Slowness Width − Monopole P&S | 10 | US/F |
| TBF1 | STC Time for Baseline Fill − Lower Dipole | 0 | US |
| TBF4 | STC Time for Baseline Fill − Monopole P&S | 300 | US |
| TLL1 | STC Time Lower Limit − Lower Dipole | 600 | US |
| TLL4 | STC Time Lower Limit − Monopole P&S | 150 | US |

| | | | |
|---|---|---|---|
| TLL4 | STC Time Lower Limit − Monopole P&S | 150 | US |
| TST1 | STC Time Step − Lower Dipole | 200 | US |
| TST4 | STC Time Step − Monopole P&S | 50 | US |
| TUL1 | STC Time Upper Limit − Lower Dipole | 20440 | US |
| TUL4 | STC Time Upper Limit − Monopole P&S | 3660 | US |
| TWD1 | STC Time Width − Lower Dipole | 2000 | US |
| TWD4 | STC Time Width − Monopole P&S | 1000 | US |
| TWI1 | STC Integration Time Window − Lower Dipole | 1600 | US |
| TWI4 | STC Integration Time Window − Monopole P&S | 500 | US |
| TWSX | Transmitter Waveform Select X | 0 | |
| WFM4 | Waveform Mode 4 | W1 | |
| | **HNGS−BA: Hostile Natural Gamma Ray Sonde** | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.000870016 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.04989 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.00333 | |
| | **EDTC−B: Enhanced DTS Cartridge** | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | **System and Miscellaneous** | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

**Format: DSST_P_S_LOWER_VDL_COLOR** **Vertical Scale: 1:200** **Graphics File Created: 25−Oct−2016 07:54**

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_023LUP | FN:40 | 24−Oct−2016 07:45 | 1991.1 M | 1604.8 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_033PUP | FN:50 | PRODUCER | 25−Oct−2016 07:53 | | |

**Company: International Ocean Discovery Program** **Well: Expedition 363, Site U1482C**

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| DEFAULT | Flip_FMS_DSI_NGS_030PUP | PRODUCER | 25−Oct−2016 06:54 | 1993.2 M | 1431.0 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_031PUP | FN:48 | PRODUCER | 25−Oct−2016 06:55 | 1993.2 M | 1431.0 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Poisson's Ratio (PR)
0 (----) 0.5

Sonic Velocity (SVEL)
1000 (M/S) 6000

Sonde Deviation (SDEVM)
0 (DEG) 10

Poisson's Ratio (PR)
0 (----) 0.5

Caliper 1 (C1)
0 (IN) 20

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

Caliper 2 (C2)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
3000 0

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

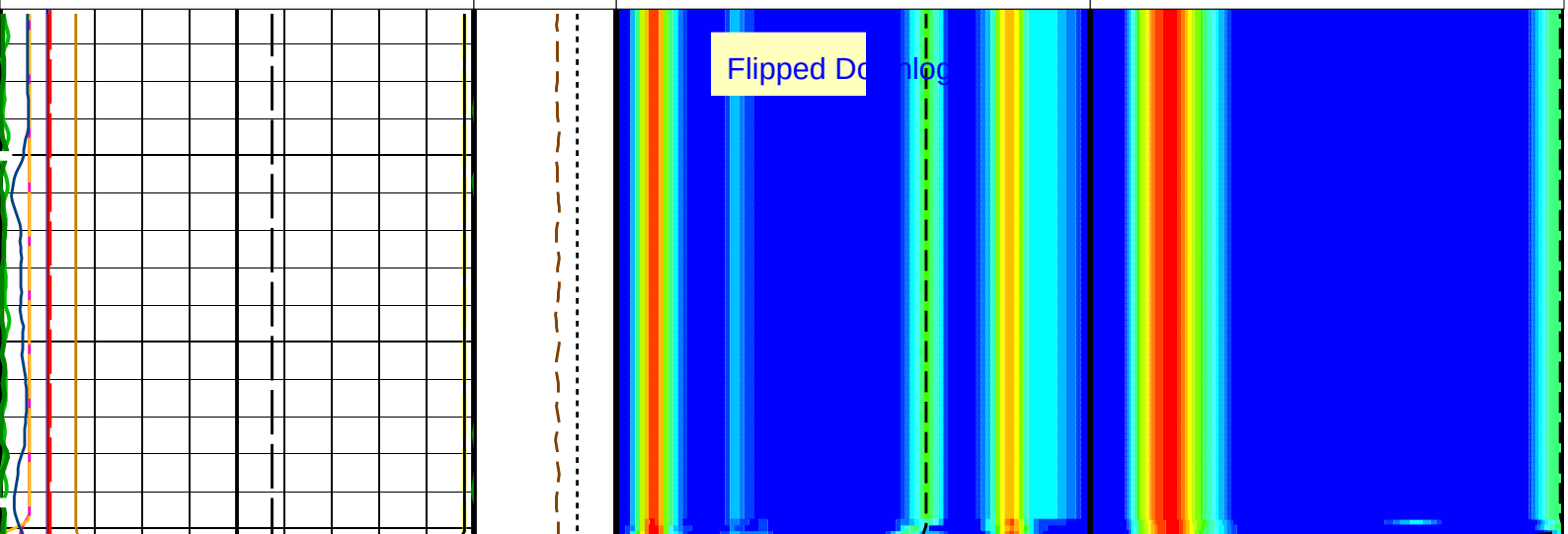
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

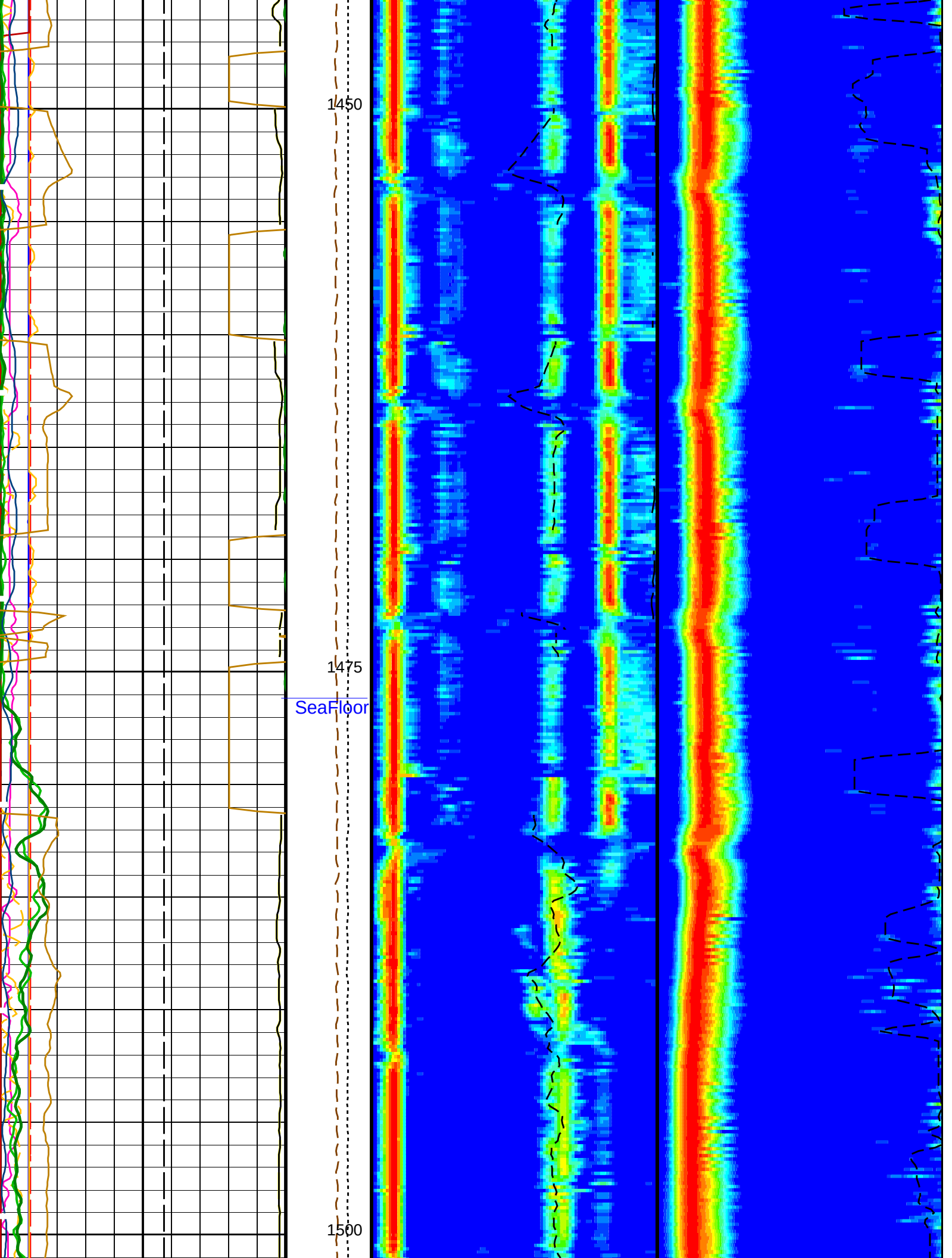
Bit Size (BS)
0 (IN) 20

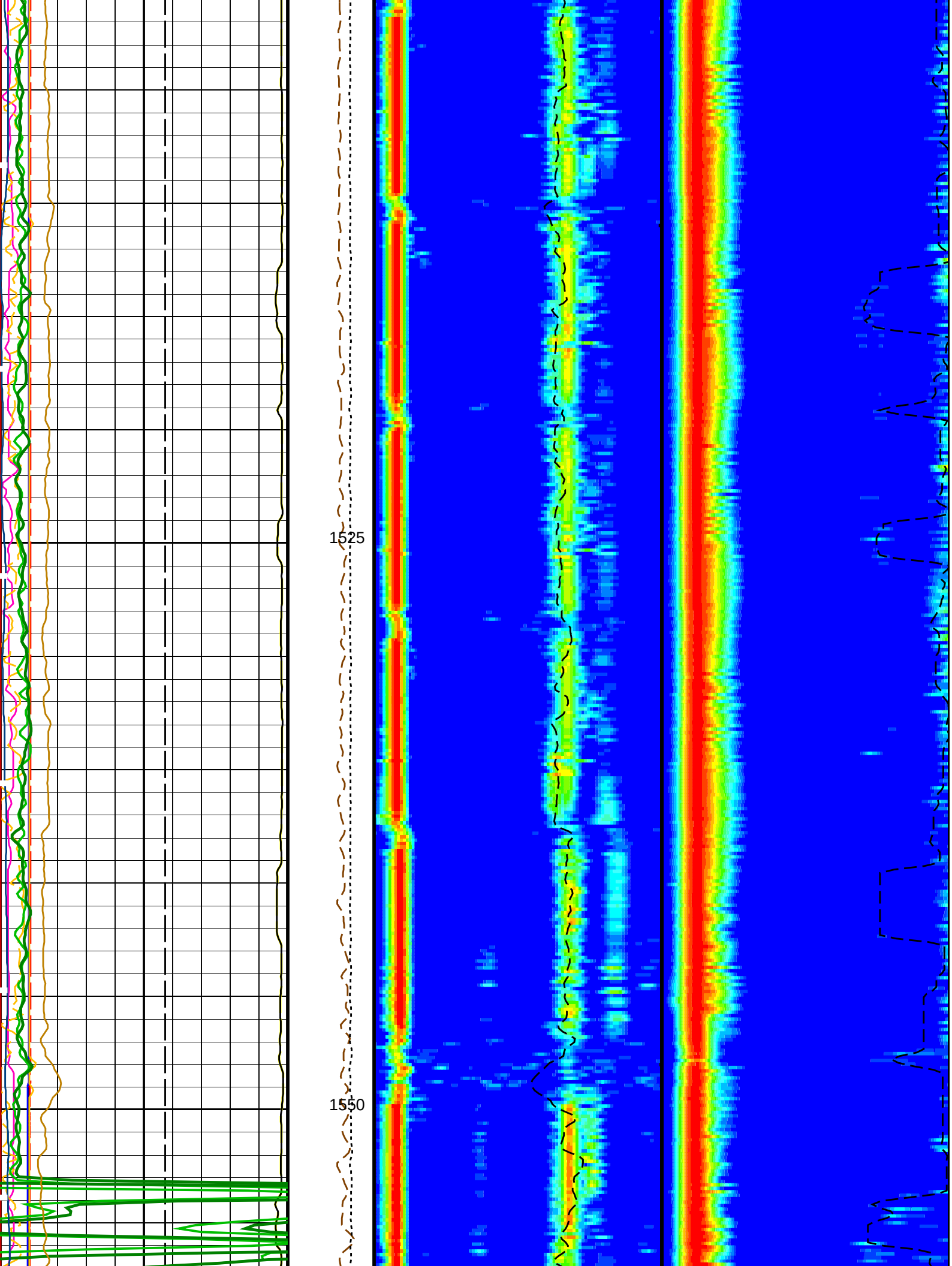
Tension (TENS) (LBF)
10000 0

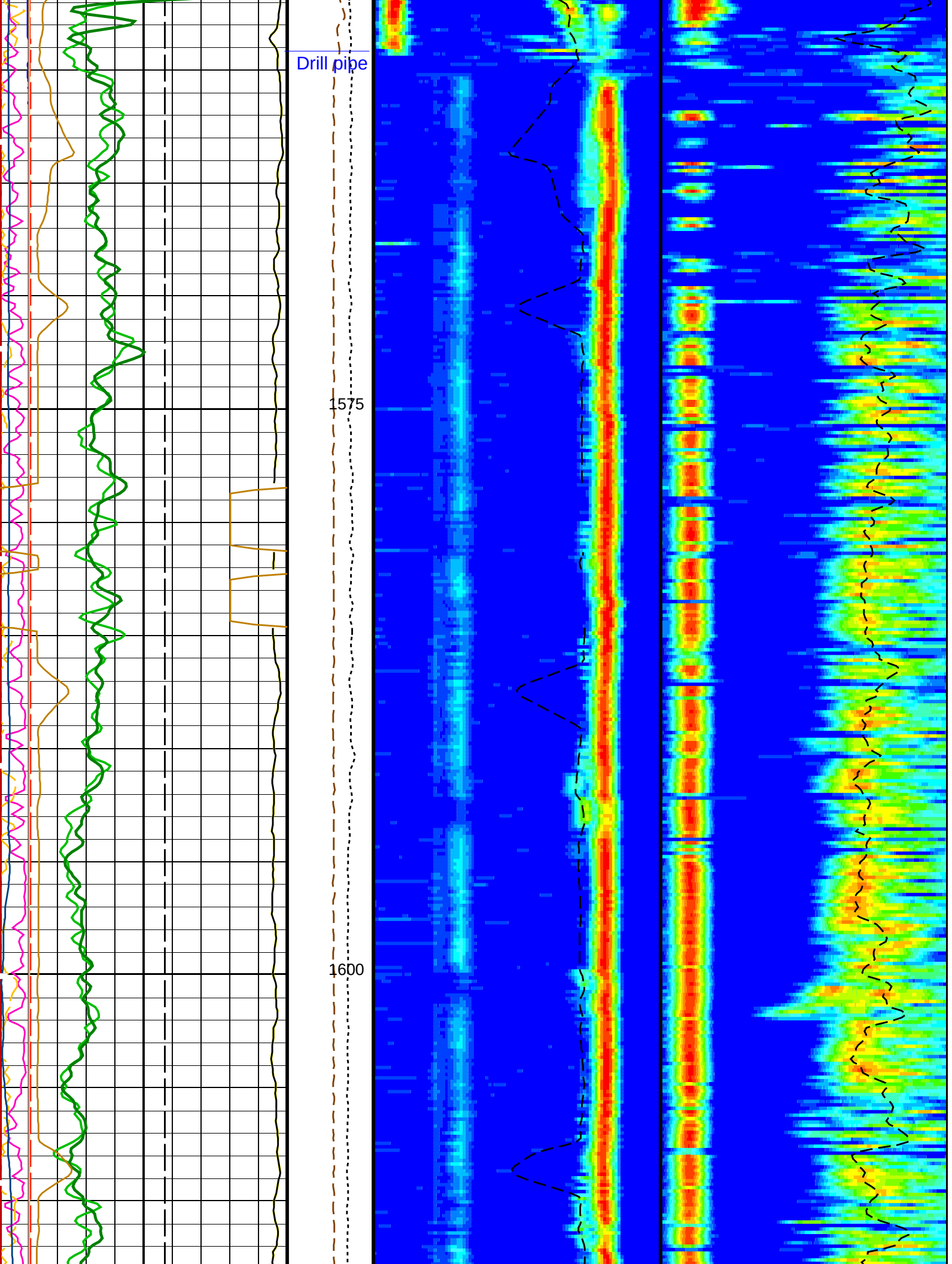
Delta-T Comp / RA – P & S (DTRP)
40 (US/F) 240

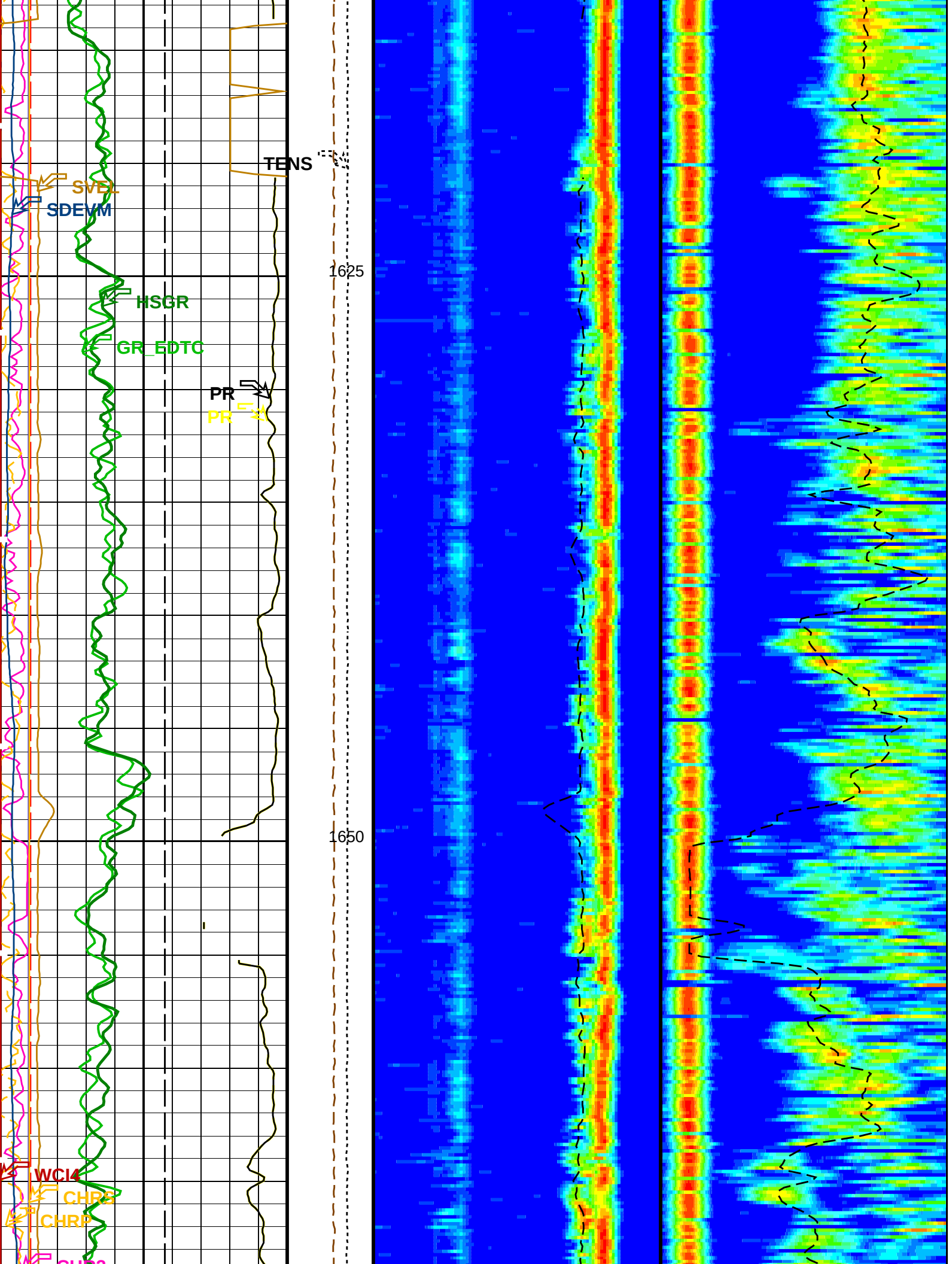
Delta-T Shear / RA – Upper Dipole (DT2R)
75 (US/F) 1200

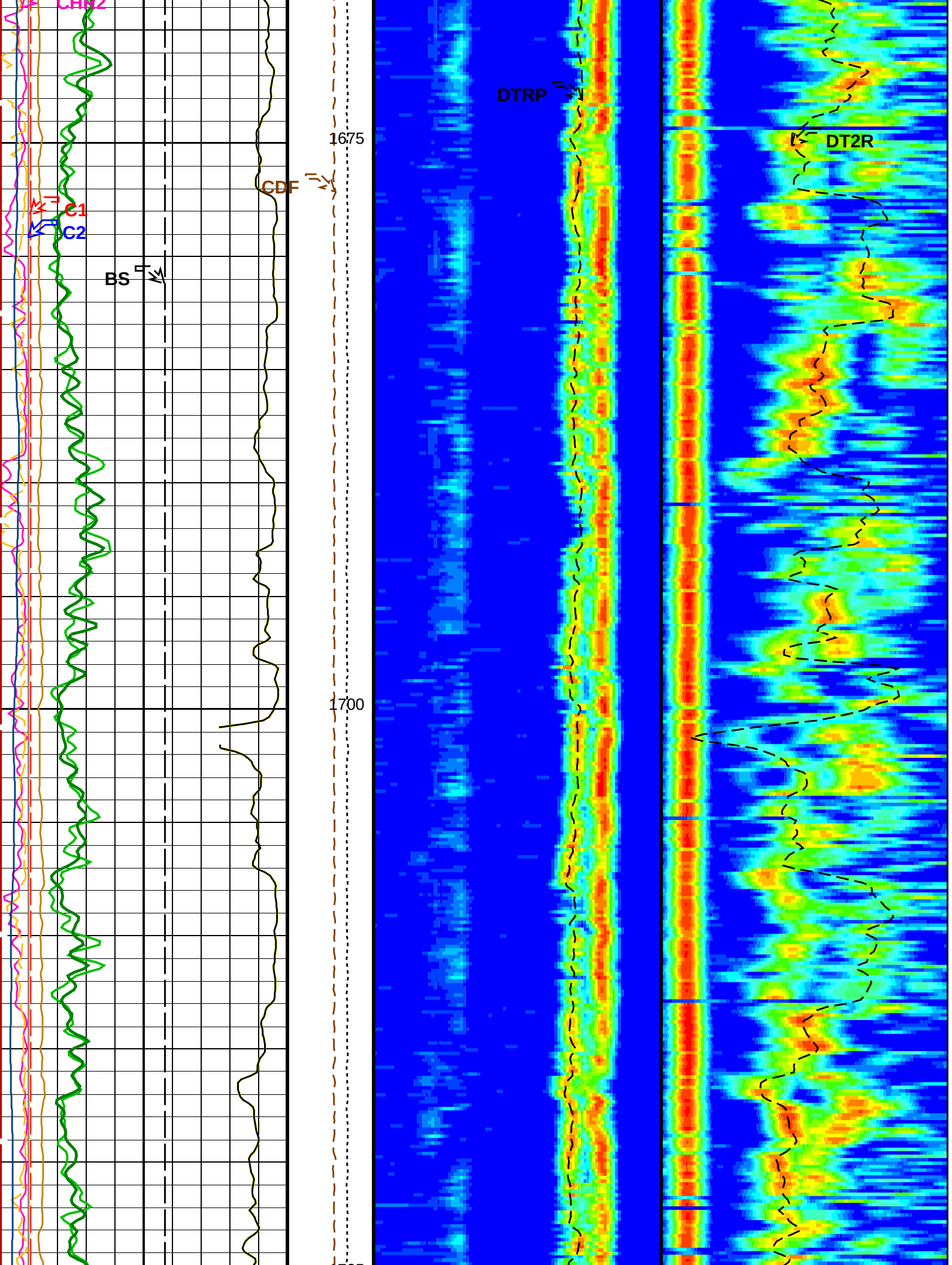


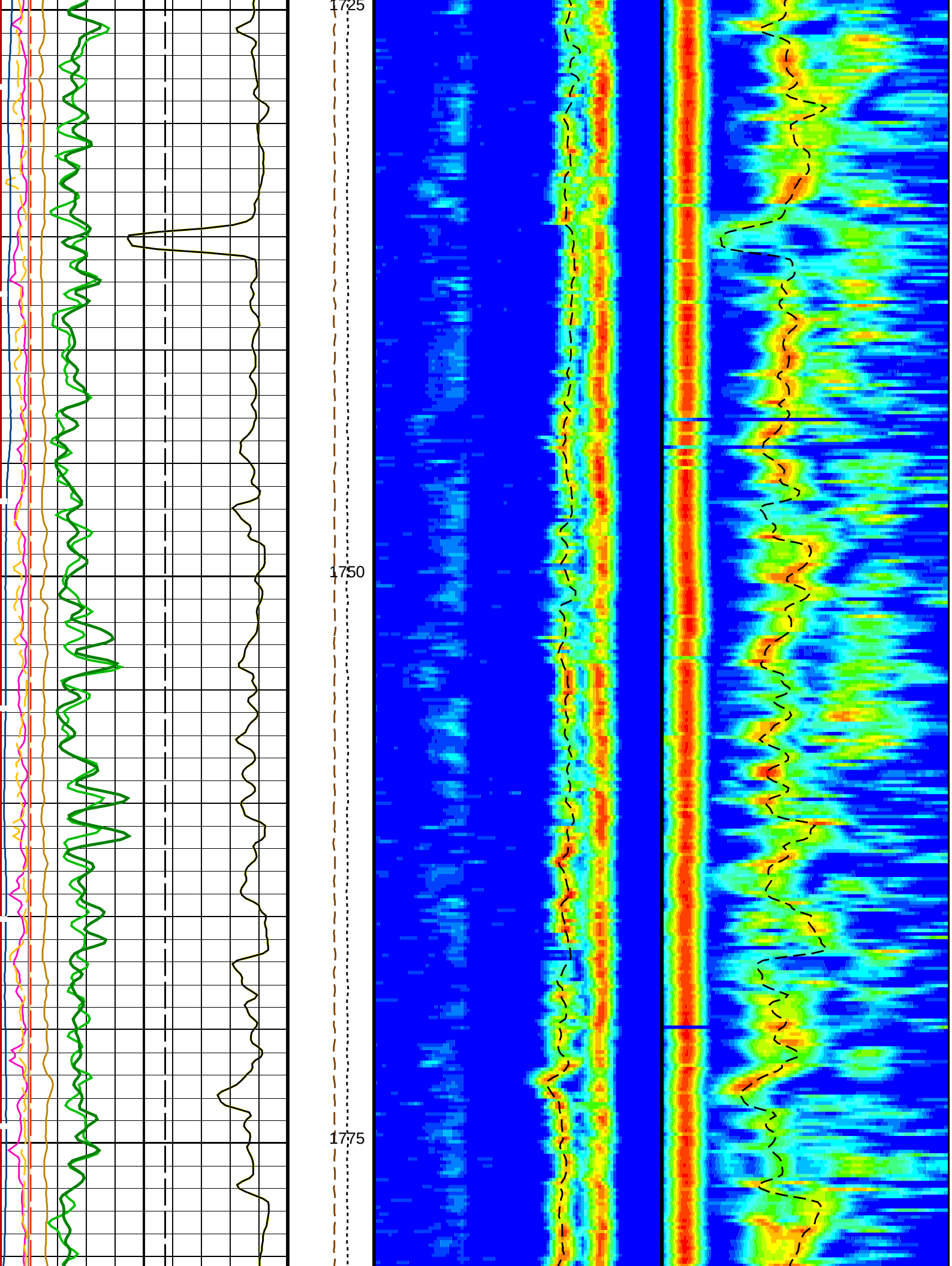

1450
1475
SeaFloor
1500

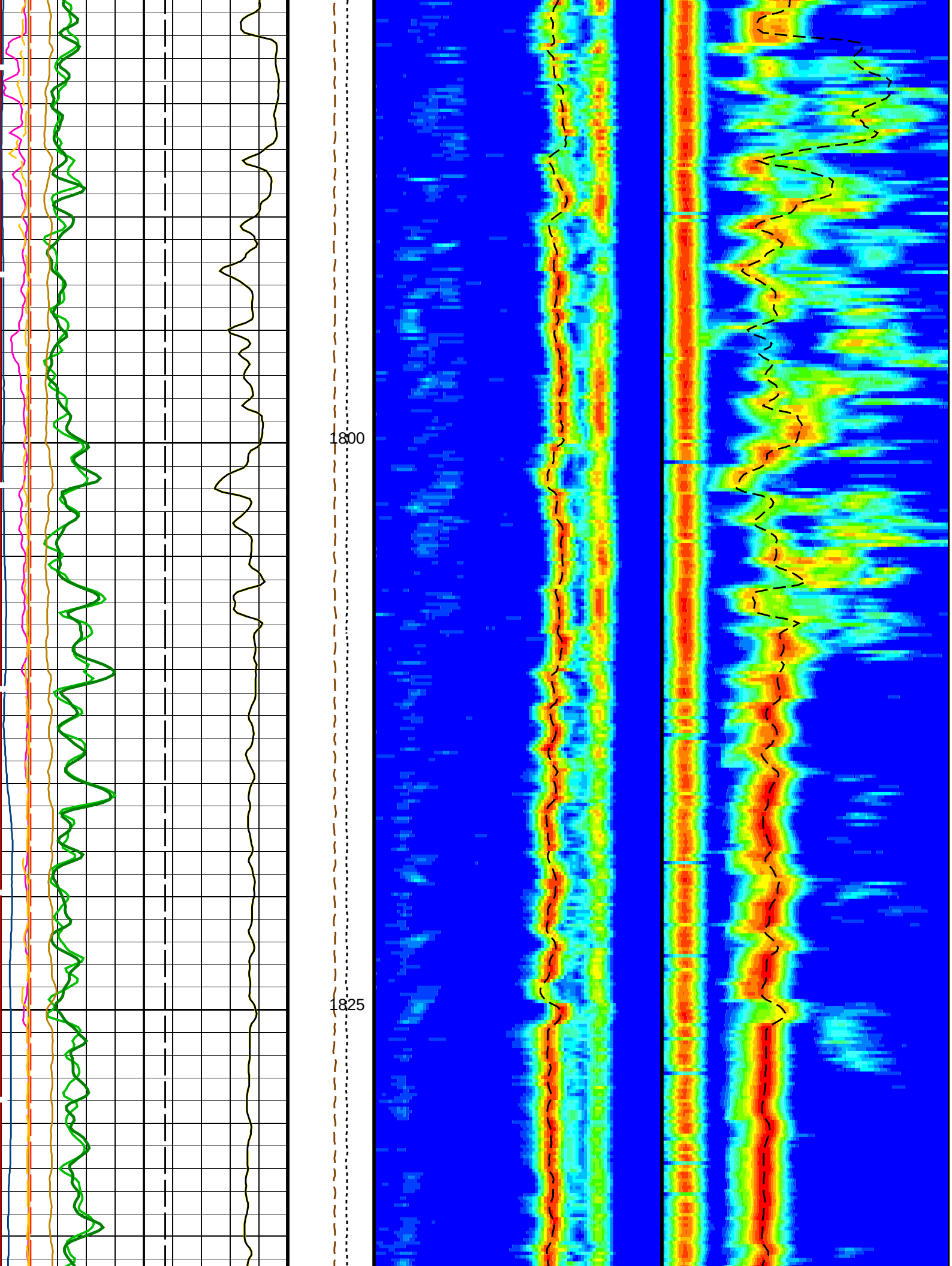

1525
1550

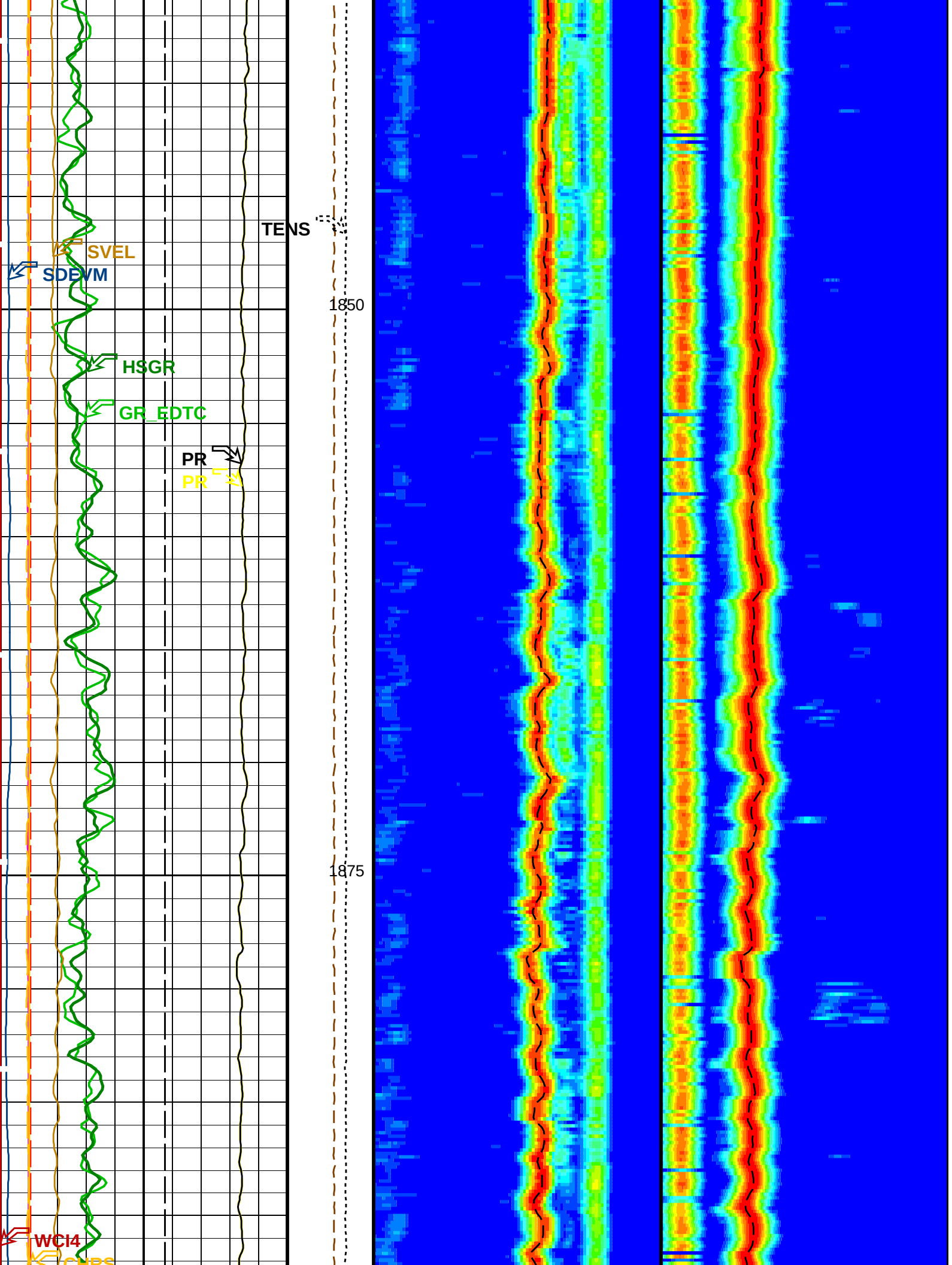

Drill pipe
1575
1600

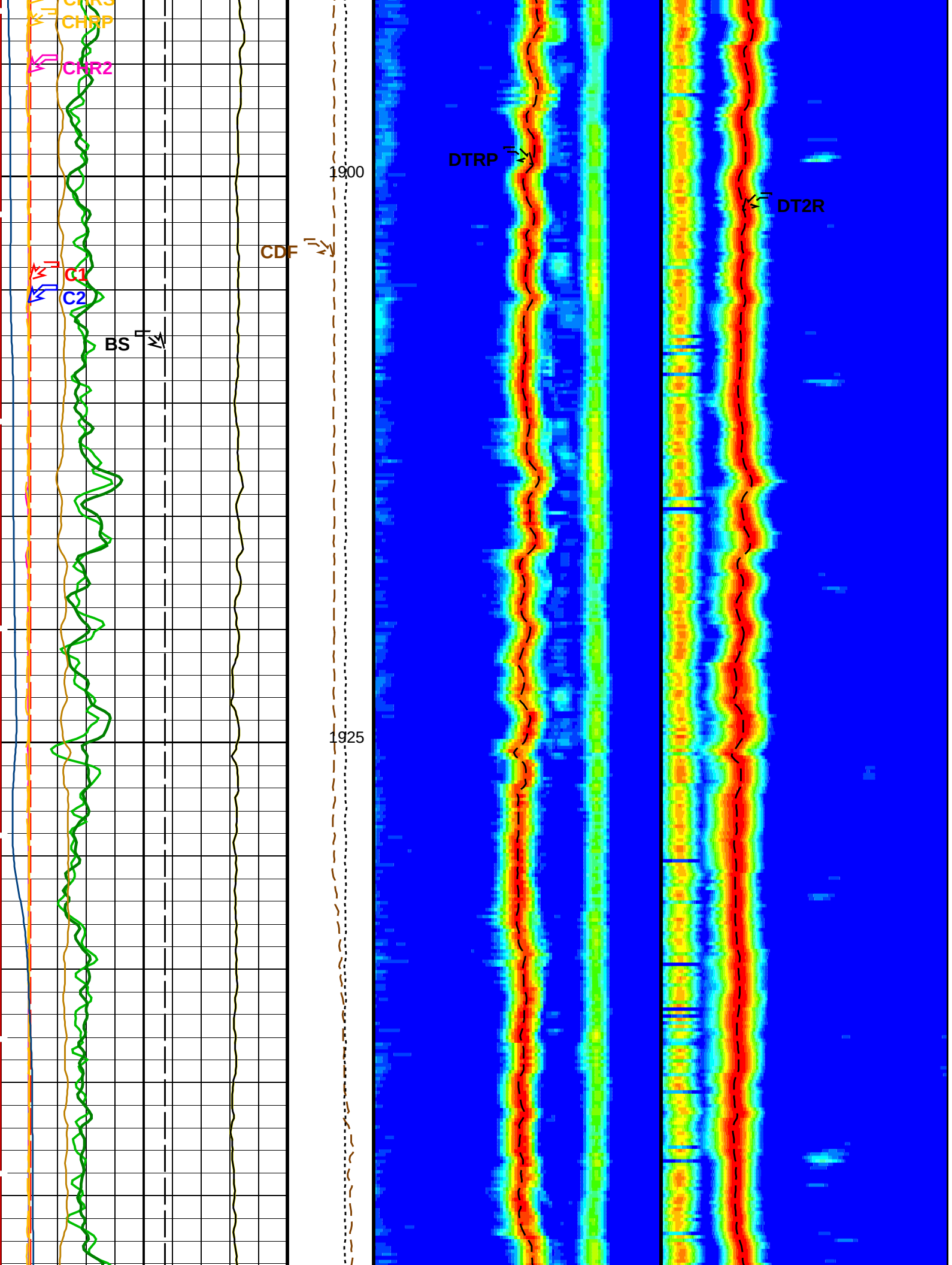

TENS
SVEL
SDEVM
1625
HSGR
GR_EDTC
PR
PR
1650
WCI4
CHRS
CHRP

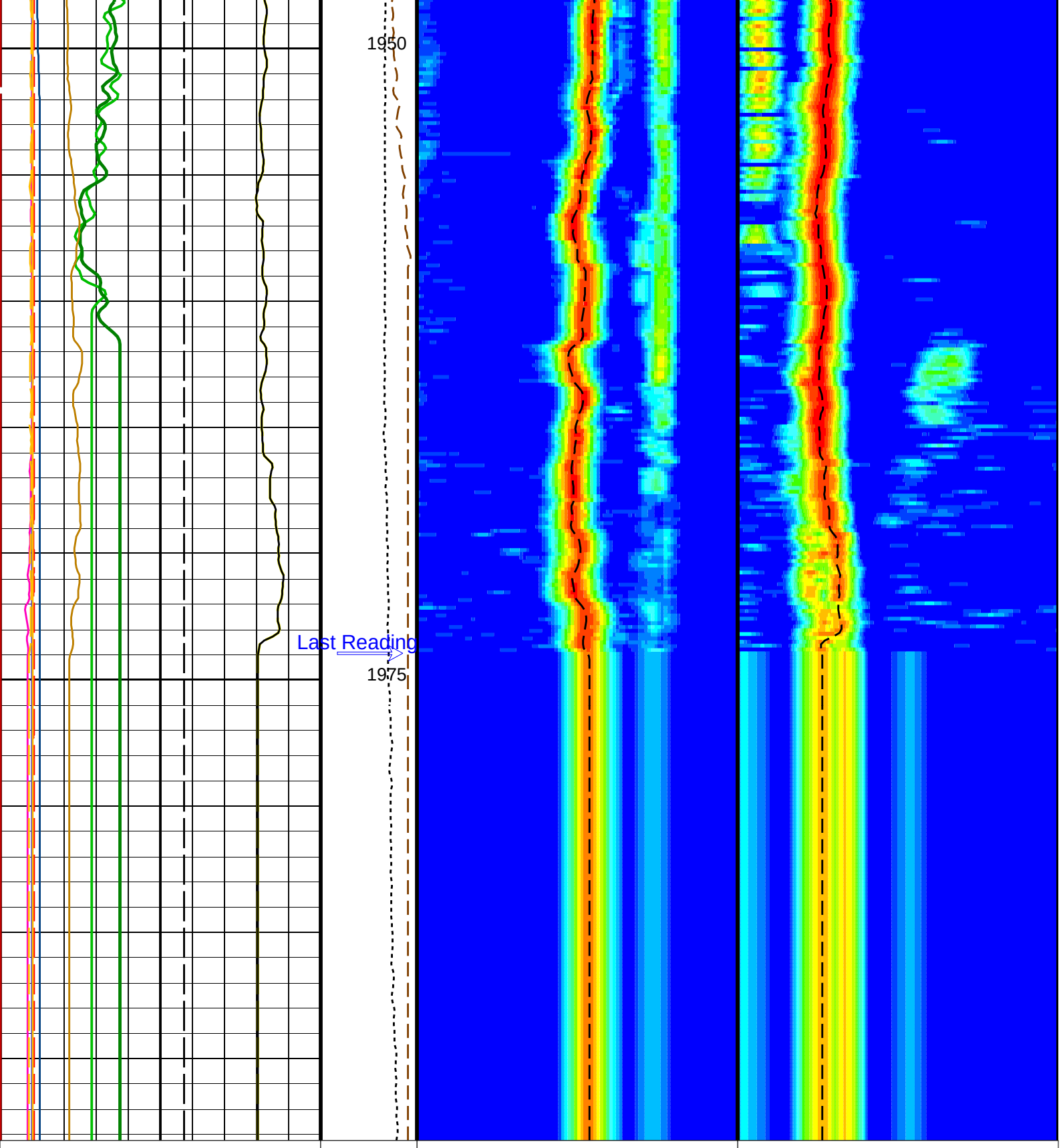

CHR2
C1
C2
BS
CDF
1675
1700
DTRP
DT2R


1725
1750
1775


1800
1825


TENS
SVEL
SDEVM
1850
HSGR
GR_EDTC
PR
PR
1875
WCI4


CHR3
CHRP
CHR2
C1
C2
BS
CDF
1900
1925
DTRP
DT2R




| Bit Size (BS) | Tension (TENS) | Delta−T Comp / RA − P & S (DTRP) | Delta−T Shear / RA − Upper Dipole (DT2R) |
|---|---|---|---|
| 0 (IN) 20 | (LBF) 10000 0 | 40 (US/F) 240 | 75 (US/F) 1200 |
| **Caliper 2 (C2)** | **Calibrated Downhole Force (CDF) (LBF)** | **Delta−T Shear / RA − P & S (DTRS)** | Min Amplitude Max<br>Rec.Array U.Dipole Slow Proj. CVDL (SPR2) |
| 0 (IN) 20 | 3000 0 | 40 (US/F) 240 | 75 (US/F) 1200 |
| **Caliper 1 (C1)** | | Min Amplitude Max | |
| (IN) | | | |

| | | |
|---|---|---|
| 0 | (IN) | 20 |

| Poisson's Ratio (PR) | | |
|---|---|---|
| 0 | (----) | 0.5 |

| Sonde Deviation (SDEVM) | | |
|---|---|---|
| 0 | (DEG) | 10 |

| Sonic Velocity (SVEL) | | |
|---|---|---|
| 1000 | (M/S) | 6000 |

| Poisson's Ratio (PR) | | |
|---|---|---|
| 0 | (----) | 0.5 |

| Gamma Ray (GR_EDTC) | | |
|---|---|---|
| 0 | (GAPI) | 100 |

| 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 |

| HNGS Spectroscopy Gamma Ray (HSGR) | | |
|---|---|---|
| 0 | (GAPI) | 100 |

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

Flipped Downlog

**PIP SUMMARY**

**Time Mark Every 60 S**

## Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | **MEST−B: Micro Electrical Scanner − B (Slim)** | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| | **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 | 130 | US/F |
| COUL | Label Slowness Upper Limit − Monopole P&S Compressional | 187 | 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 | 185 | 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 | 40 | US |
| DTCS | Compressional Delta−T Source for DTCO Channel | PS_COMP | |
| DTF | Delta−T Fluid | 189 | US/F |
| DTSS | Shear Delta−T Source for DTSM Channel | UPPER_DIPOLE | |
| 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 | |
| GCSE | Generalized Caliper Selection | BS | |
| LFC | Label Formation Character − Monopole P&S | DYNAMIC | |
| MCS | Mean Casing Slowness | 57 | US/F |
| MTXG | Monopole Transmitter Geometry | 186 | IN |
| NWI2 | Number Waveform Items 2 | 8 | |
| NWI4 | Number Waveform Items 4 | 8 | |
| NWIX | Number Waveform Items X | 0 | |

| | | | |
|---|---|---|---|
| NWIX | Number Waveform Items X | 0 | |
| RSMN | Label Shear/Compressional Minimum Ratio − Monopole P&S | 1.4 | |
| RSMX | Label Shear/Compressional Maximum Ratio − Monopole P&S | 2.12 | |
| RX1G | Receiver 1 Geometry | 294 | IN |
| RX2G | Receiver 2 Geometry | 300 | IN |
| RX3G | Receiver 3 Geometry | 306 | IN |
| RX4G | Receiver 4 Geometry | 312 | IN |
| RX5G | Receiver 5 Geometry | 318 | IN |
| RX6G | Receiver 6 Geometry | 324 | IN |
| RX7G | Receiver 7 Geometry | 330 | IN |
| RX8G | Receiver 8 Geometry | 336 | IN |
| SAM2 | DSST Sonic Acquisition Mode 2 − Upper Dipole Mode | ODD | |
| SAM4 | DSST Sonic Acquisition Mode 4 − 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 | B1−2K | |
| SFM4 | STC Filter − Monopole P&S | B3−20K | |
| SHLL | Label Slowness Lower Limit − Monopole P&S Shear | 235 | 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 | 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 | 600 | 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 | |
| | **HNGS−BA: Hostile Natural Gamma Ray Sonde** | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.00189991 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.01598 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 0.991346 | |
| | **EDTC−B: Enhanced DTS Cartridge** | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | **System and Miscellaneous** | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |

PP Playback Processing RECOMPUTE

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 25−Oct−2016 06:55

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| DEFAULT | Flip_FMS_DSI_NGS_030PUP | PRODUCER | 25−Oct−2016 06:54 | 1993.2 M | 1431.0 M |

## Output DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_031PUP | FN:48 | PRODUCER | 25−Oct−2016 06:55 | |

Company: International Ocean Discovery Program Well: Expedition 363, Site U1482C

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_024LUP | FN:42 | 24−Oct−2016 09:02 | 1986.5 M | 1496.4 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_034PUP | FN:51 | PRODUCER | 25−Oct−2016 07:56 | 1986.5 M | 1496.4 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Bit Size (BS)
0 (IN) 20

Relative Bearing (RB_MEST)
−40 (DEG) 360

Pad One Azimuth (P1AZ_MEST)
−40 (DEG) 360

Hole Azimuth (HAZIM)
−40 (DEG) 360

Uplog #2, FMS Images

Data Button 8 − Varies with RBS (U−MEST_RB8)
−80 (−−−−) 20

Data Button 7 − Varies with RBS (U−MEST_RB7)
−70 (−−−−) 30

Data Button 6 − Varies with RBS (U−MEST_RB6)
−60 (−−−−) 40

Data Button 5 − Varies with RBS (U−MEST_RB5)
−50 (−−−−) 50

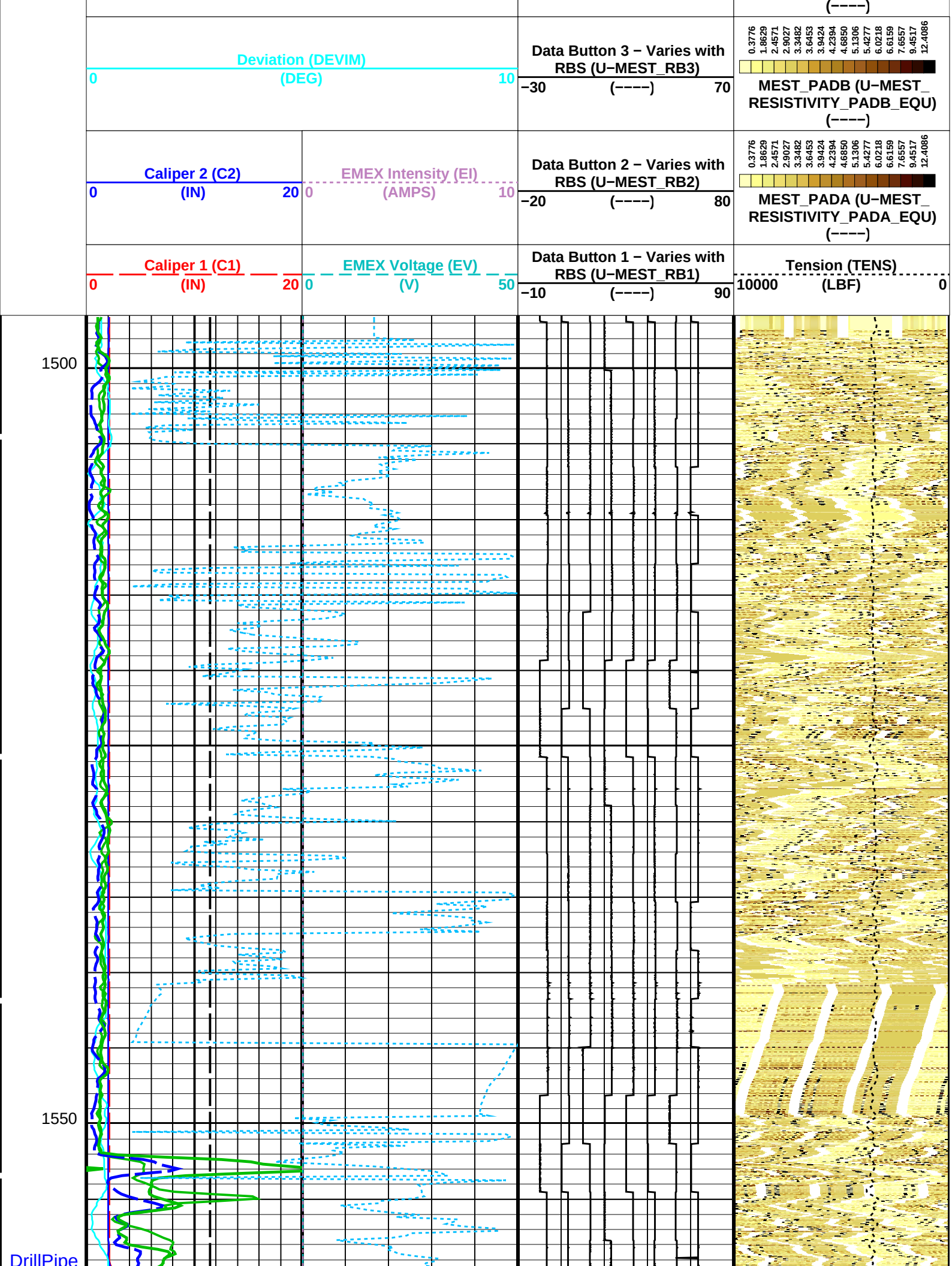
Data Button 4 − Varies with RBS (U−MEST_RB4)
−40 (−−−−) 60

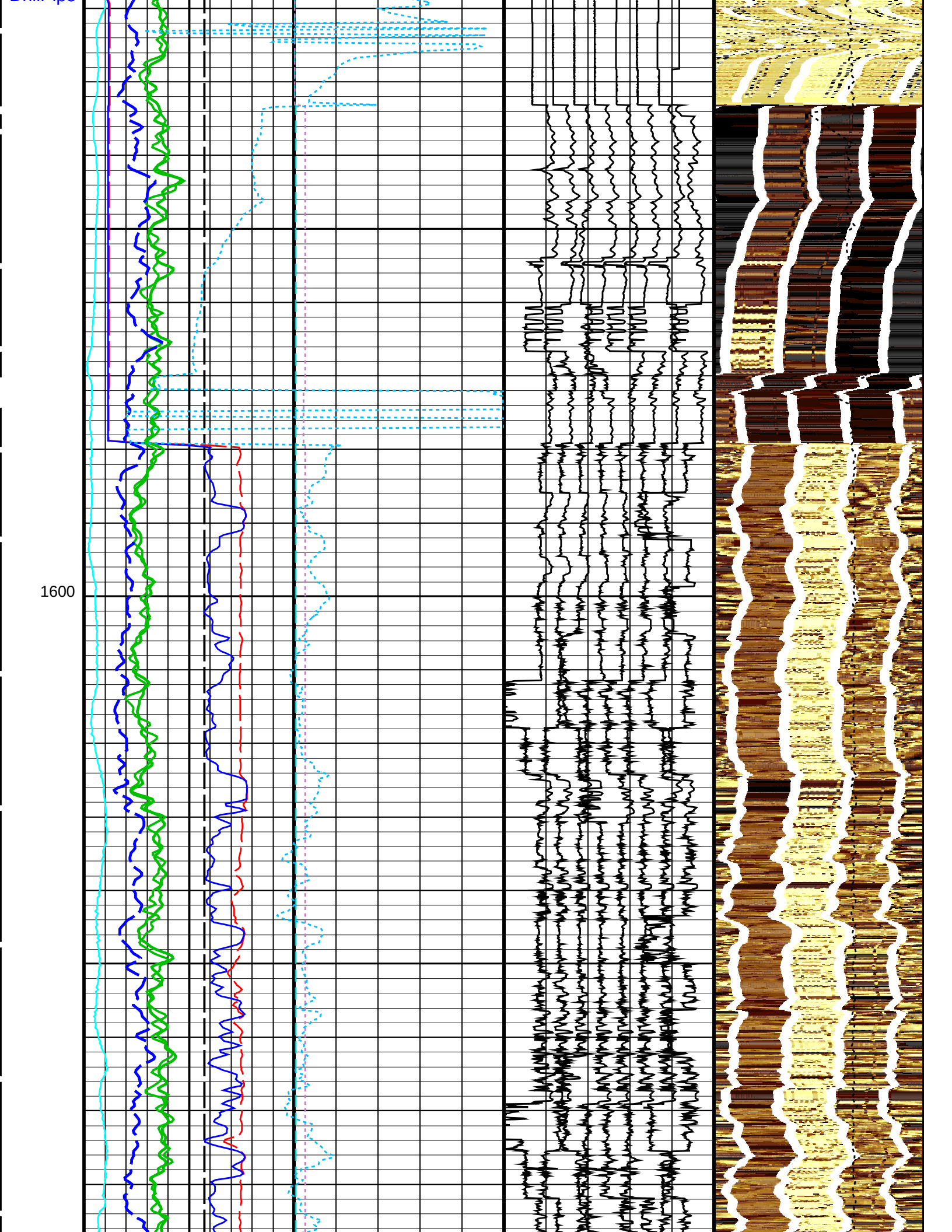
0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

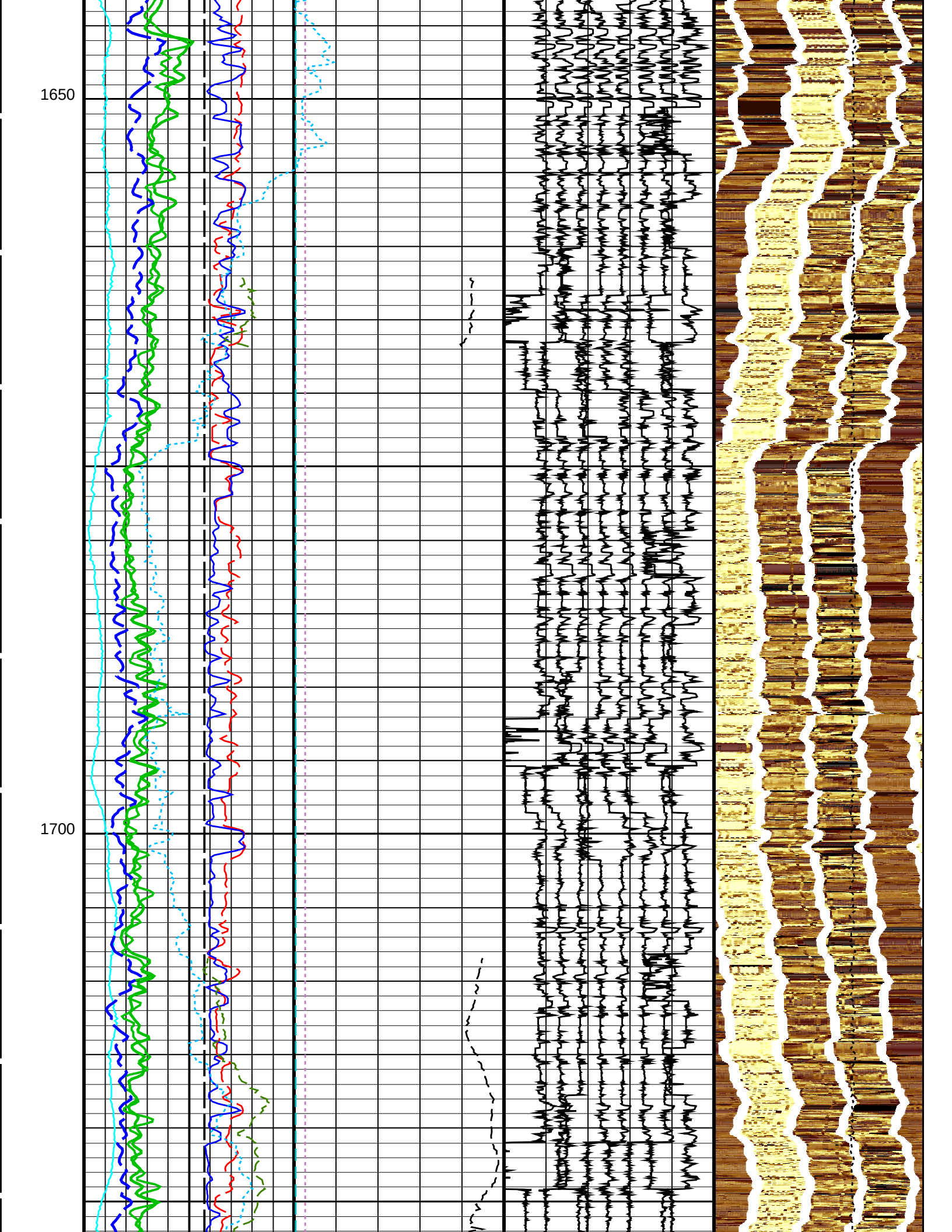
MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU)
(−−−−)

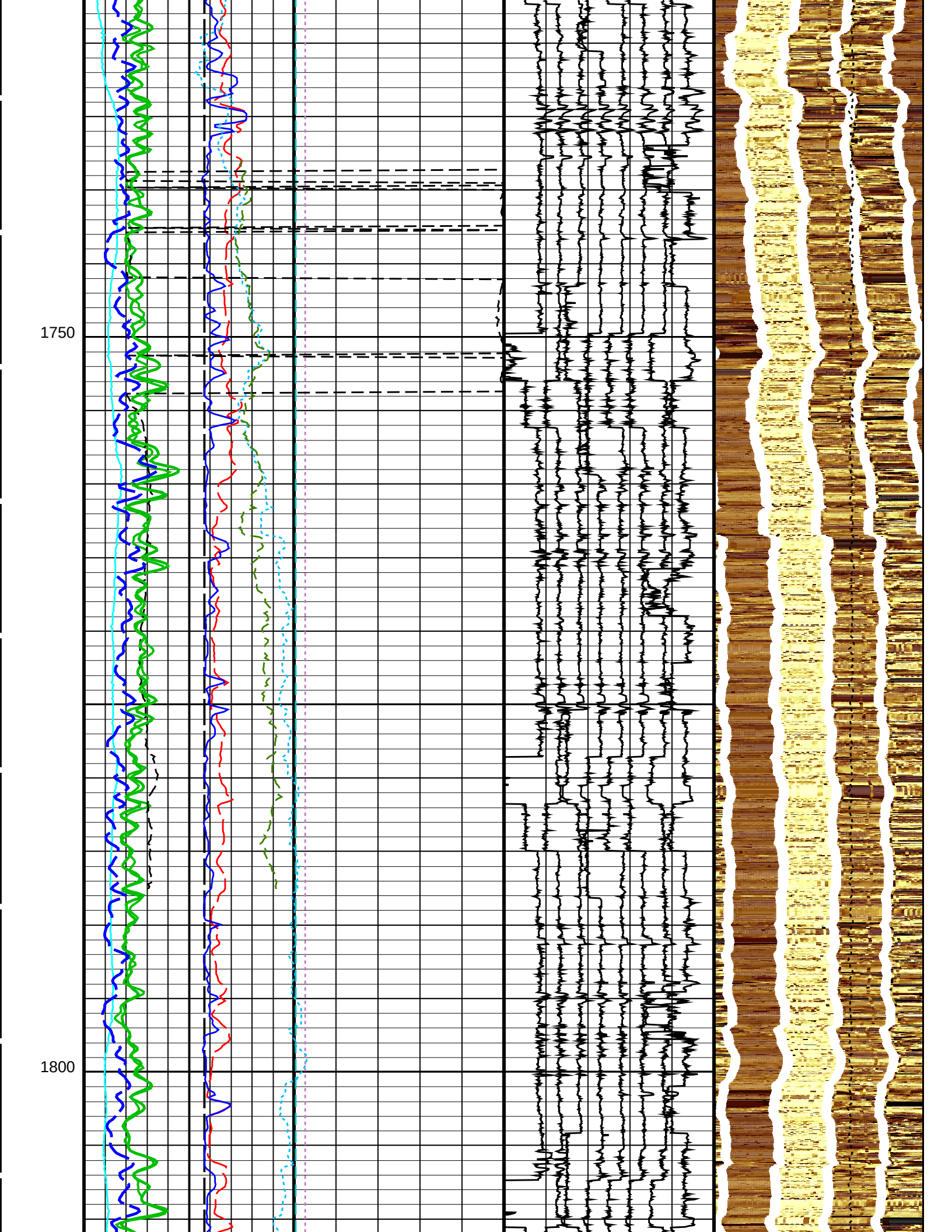
0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

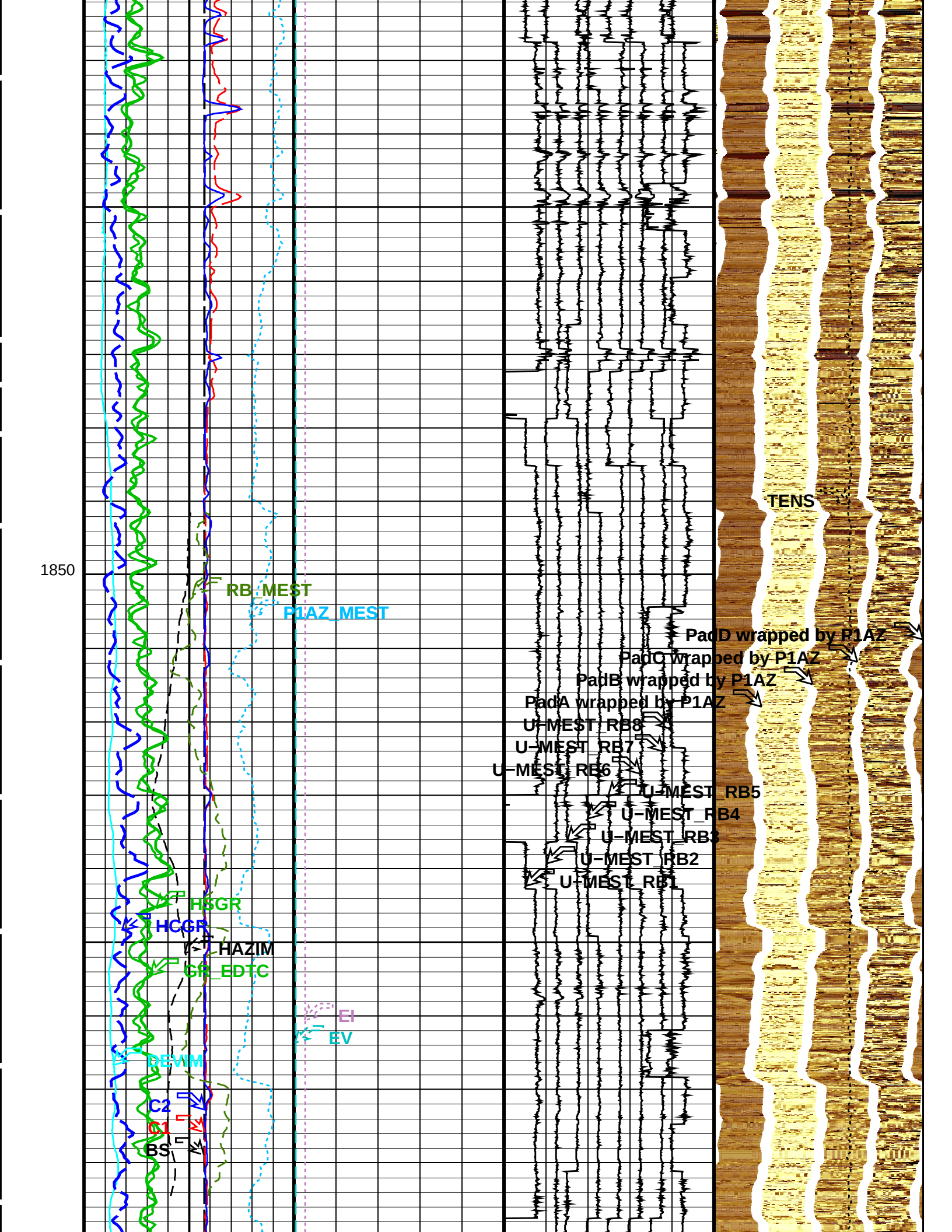
MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU)

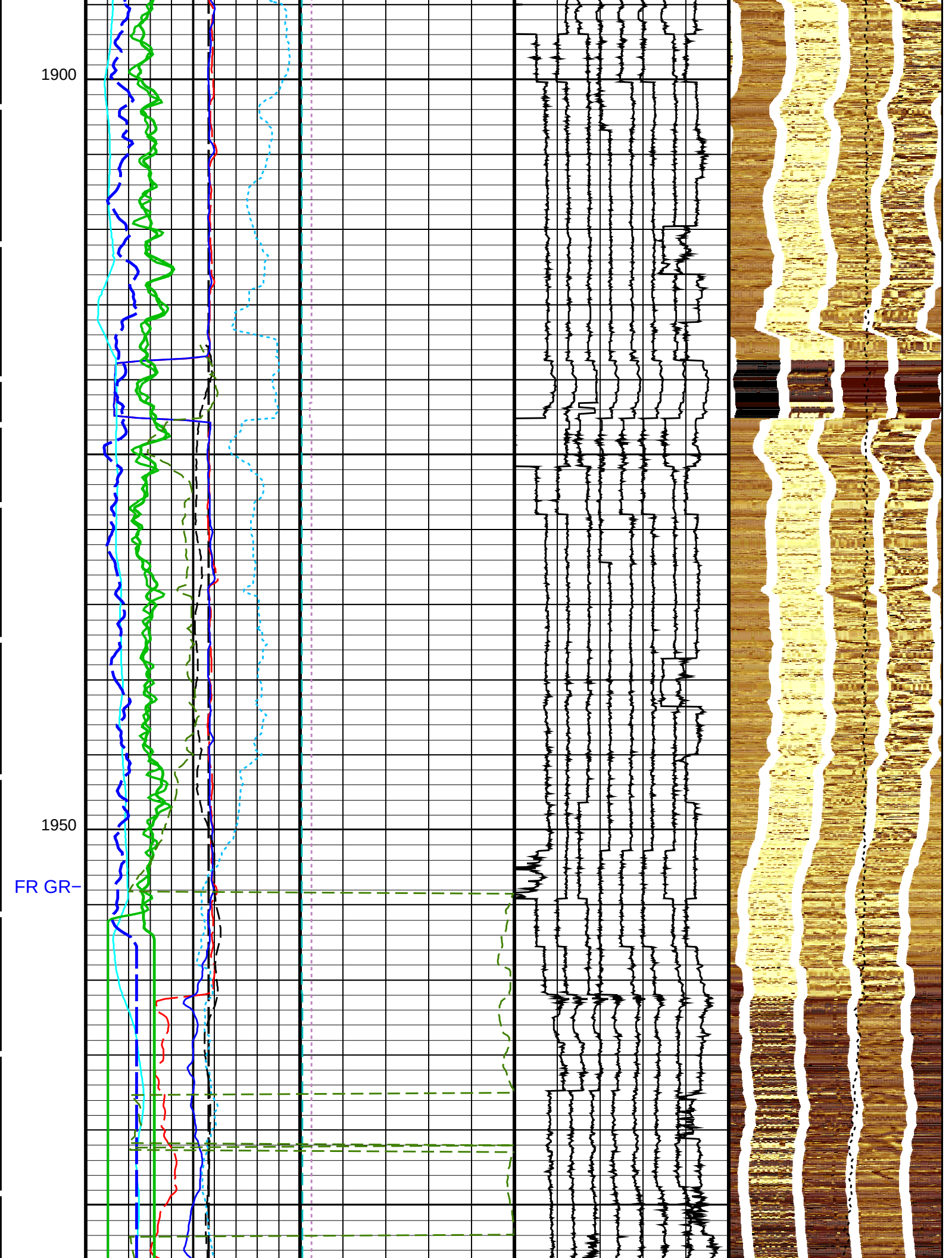

(----)
Deviation (DEVIM)
0 (DEG) 10
Data Button 3 − Varies with RBS (U−MEST_RB3)
−30 (----) 70
0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU)
(----)
Caliper 2 (C2)
0 (IN) 20
EMEX Intensity (EI)
0 (AMPS) 10
Data Button 2 − Varies with RBS (U−MEST_RB2)
−20 (----) 80
0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU)
(----)
Caliper 1 (C1)
0 (IN) 20
EMEX Voltage (EV)
0 (V) 50
Data Button 1 − Varies with RBS (U−MEST_RB1)
−10 (----) 90
Tension (TENS)
10000 (LBF) 0
1500
1550
DrillPipe

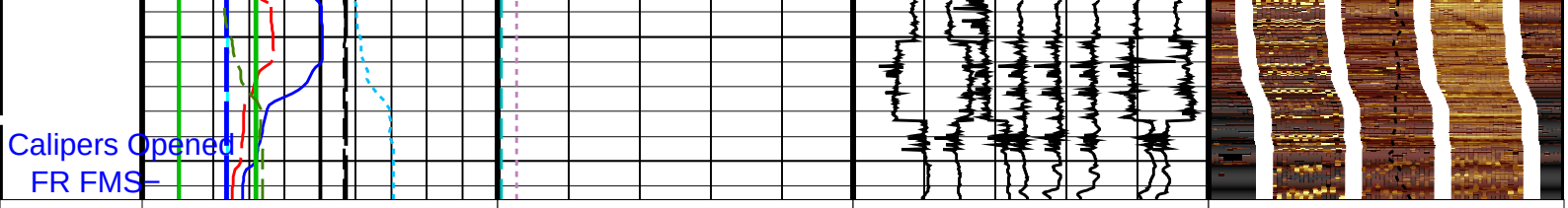

1600


1650
1700


1750
1800


1850
RB_MEST
P1AZ_MEST
HSGR
HCGR
HAZIM
GR_EDTC
EI
EV
DEVIM
C2
C1
BS
TENS
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1


1900
1950
FR GR−




Caliper 1 (C1) 0 (IN) 20

EMEX Voltage (EV) 0 (V) 50

Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90

Tension (TENS) 10000 (LBF) 0

Caliper 2 (C2) 0 (IN) 20

EMEX Intensity (EI) 0 (AMPS) 10

Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80

MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)

Deviation (DEVIM) 0 (DEG) 10

Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70

MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)

Hole Azimuth (HAZIM) −40 (DEG) 360

Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60

MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)

Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360

Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50

MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)

Relative Bearing (RB_MEST) −40 (DEG) 360

Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40

Bit Size (BS) 0 (IN) 20

Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30

Gamma Ray (GR_EDTC) 0 (GAPI) 100

Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20

HNGS Computed Gamma Ray (HCGR) 0 (GAPI) 100

Uplog #2, FMS Images

HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100

**PIP SUMMARY**

**Time Mark Every 60 S**

## Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | MEST−B: Micro Electrical Scanner − B (Slim) | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| MLM | MEST Logging Mode | SCAN1800 | |
| RBS | Resistivity Button Selection | AUTO | |
| XGAI | Gain | GAIN_2 | |
| XOFF | Offset | OFFSET_0 | |
| | DSST−B: Dipole Shear Imager − B | | |

| | | | |
|---|---|---|---|
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | HNGS−BA: Hostile Natural Gamma Ray Sonde | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.000873556 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.04988 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.00338 | |
| | EDTC−B: Enhanced DTS Cartridge | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | System and Miscellaneous | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

Format: MEST_C_WRAP_BY_P1AZ  Vertical Scale: 1:300  Graphics File Created: 25−Oct−2016 07:56

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_024LUP | FN:42 | 24−Oct−2016 09:02 | 1986.5 M | 1496.4 M |

## Output DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_034PUP | FN:51 | PRODUCER | 25−Oct−2016 07:56 | |

Company: International Ocean Discovery Program  Well: Expedition 363, Site U1482C

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | FMS_DSI_NGS_023LUP | FN:40 | 24−Oct−2016 07:45 | 1991.1 M | 1604.8 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMS_DSI_NGS_033PUP | FN:50 | PRODUCER | 25−Oct−2016 07:53 | 1991.1 M | 1604.9 M |

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| MEST−B | 19C0−187 | DTA−A | 19C0−187 |
| DSST−B | 19C0−187 | HNGC−B | 19C0−187 |
| HNGS−BA | 19C0−187 | EDTC−B | SKK−5169−EDTCB |

PIP SUMMARY

Time Mark Every 60 S

| HNGS Spectroscopy Gamma Ray (HSGR) | | |
|---|---|---|
| 0 | (GAPI) | 100 |

Up #1 pass FMS images

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Bit Size (BS)
0 (IN) 20

Relative Bearing (RB_MEST)
−40 (DEG) 360

Pad One Azimuth (P1AZ_MEST)
−40 (DEG) 360

Hole Azimuth (HAZIM)
−40 (DEG) 360

Deviation (DEVIM)
0 (DEG) 10

Caliper 2 (C2)
0 (IN) 20

EMEX Intensity (EI)
0 (AMPS) 10

Caliper 1 (C1)
0 (IN) 20

EMEX Voltage (EV)
0 (V) 50

Data Button 8 − Varies with RBS (U−MEST_RB8)
−80 (−−−−) 20

Data Button 7 − Varies with RBS (U−MEST_RB7)
−70 (−−−−) 30

Data Button 6 − Varies with RBS (U−MEST_RB6)
−60 (−−−−) 40

Data Button 5 − Varies with RBS (U−MEST_RB5)
−50 (−−−−) 50

Data Button 4 − Varies with RBS (U−MEST_RB4)
−40 (−−−−) 60

Data Button 3 − Varies with RBS (U−MEST_RB3)
−30 (−−−−) 70

Data Button 2 − Varies with RBS (U−MEST_RB2)
−20 (−−−−) 80

Data Button 1 − Varies with RBS (U−MEST_RB1)
−10 (−−−−) 90

0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

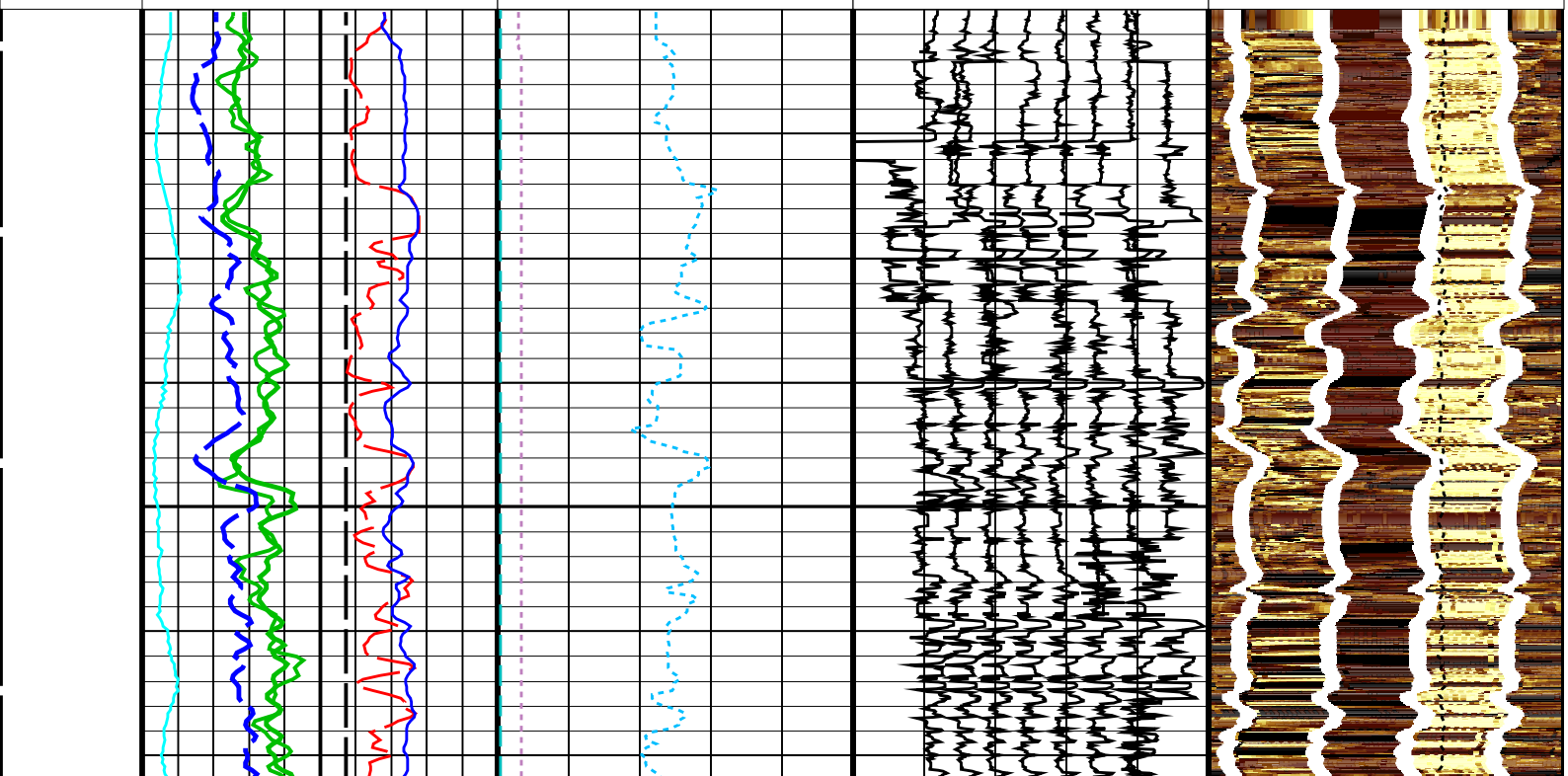
MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU)
(−−−−)

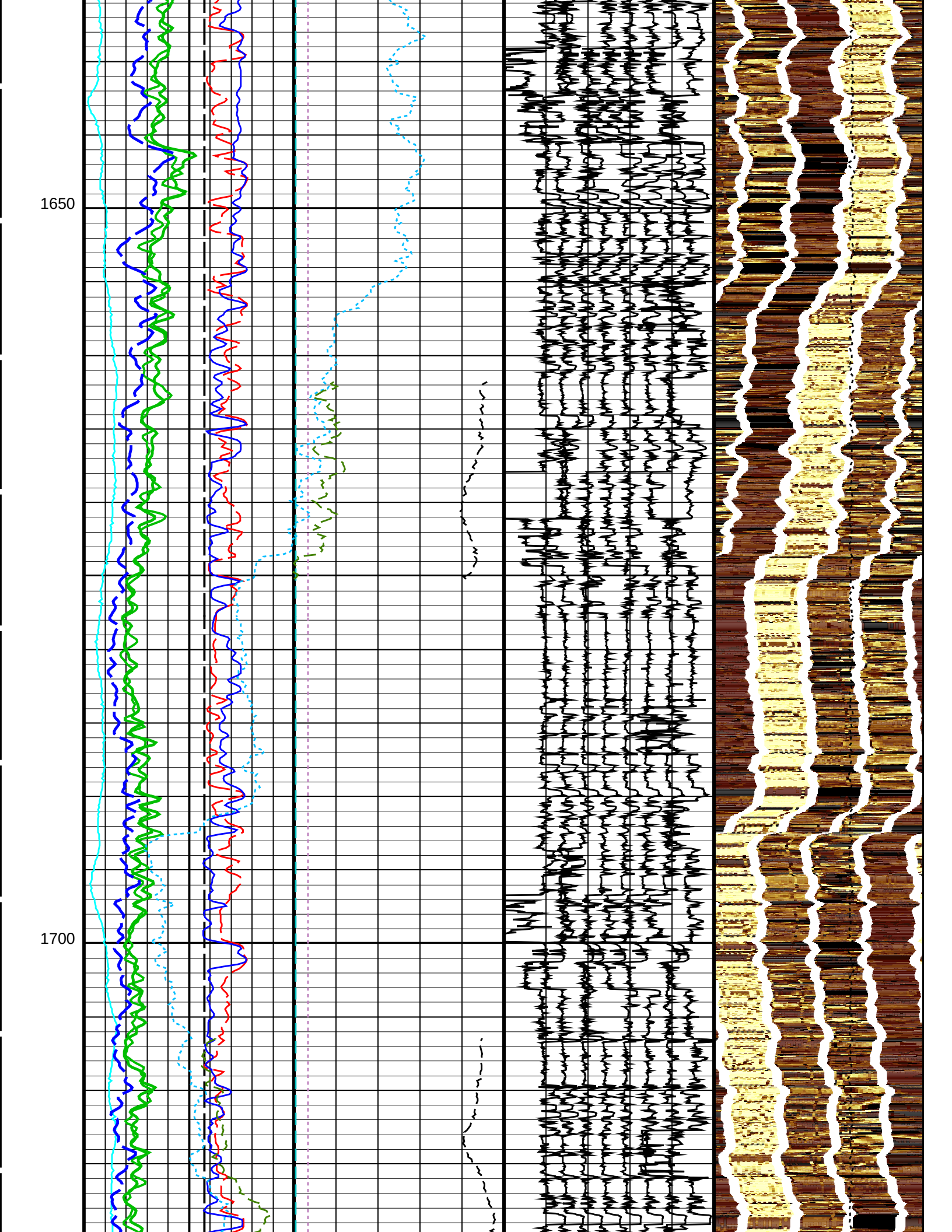
MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU)
(−−−−)

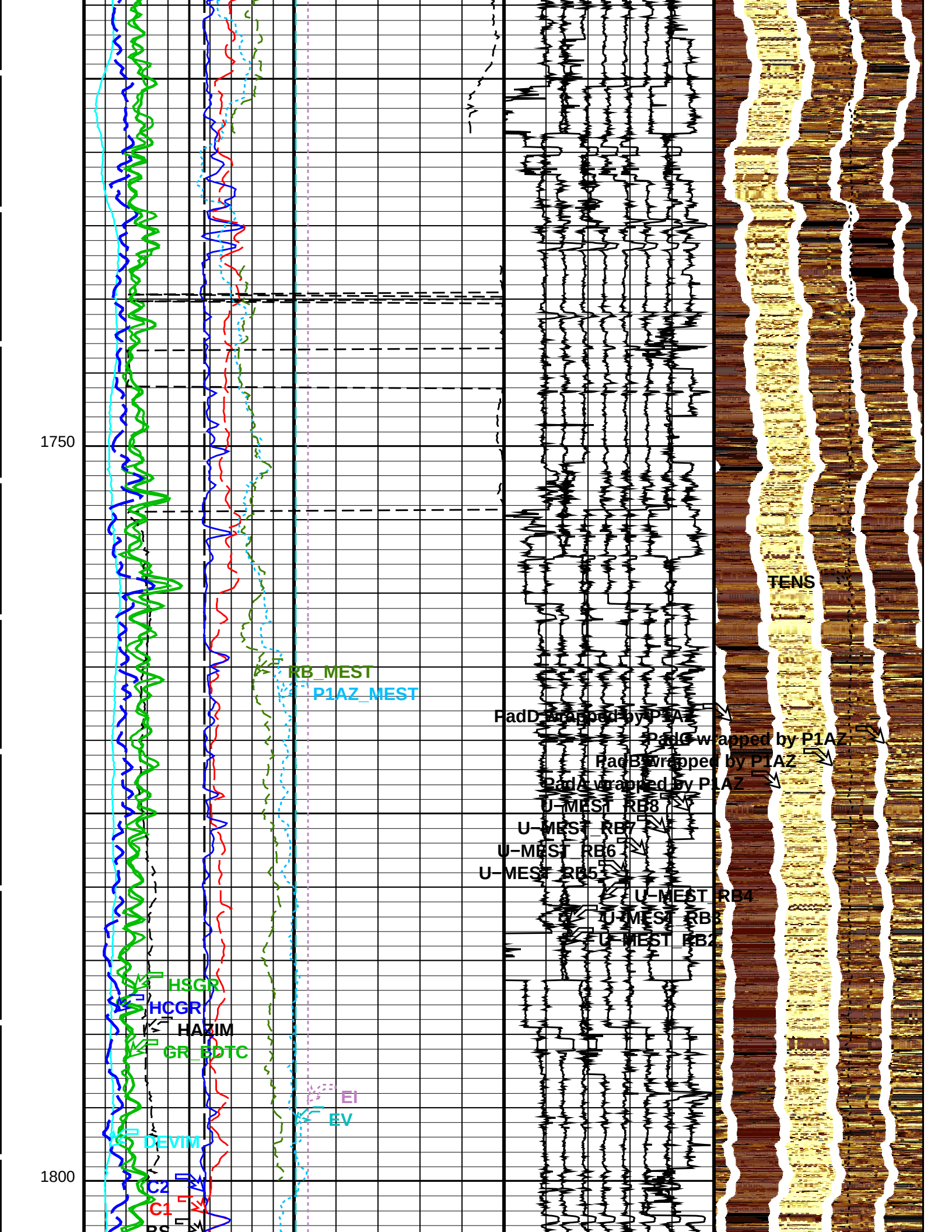
MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU)
(−−−−)

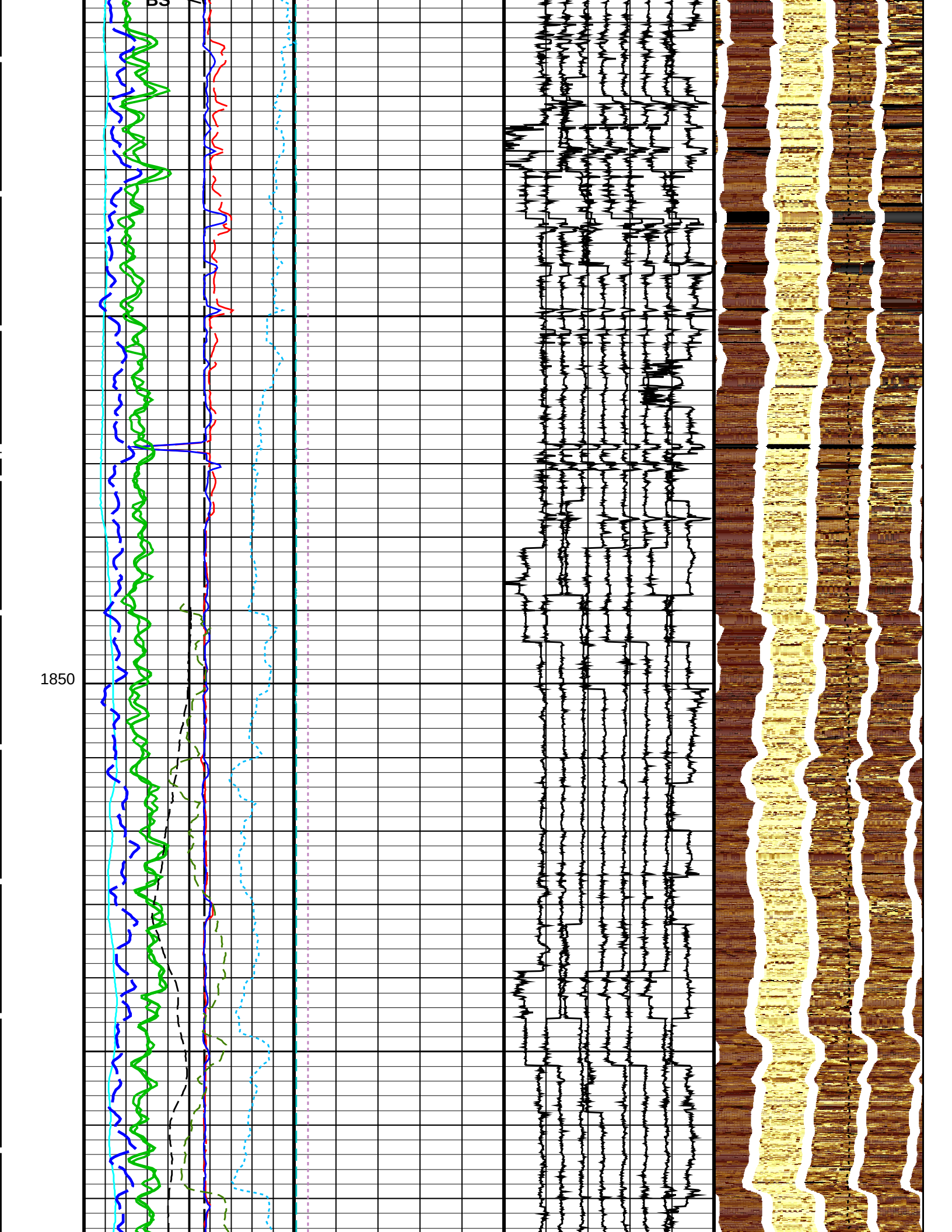
MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU)
(−−−−)

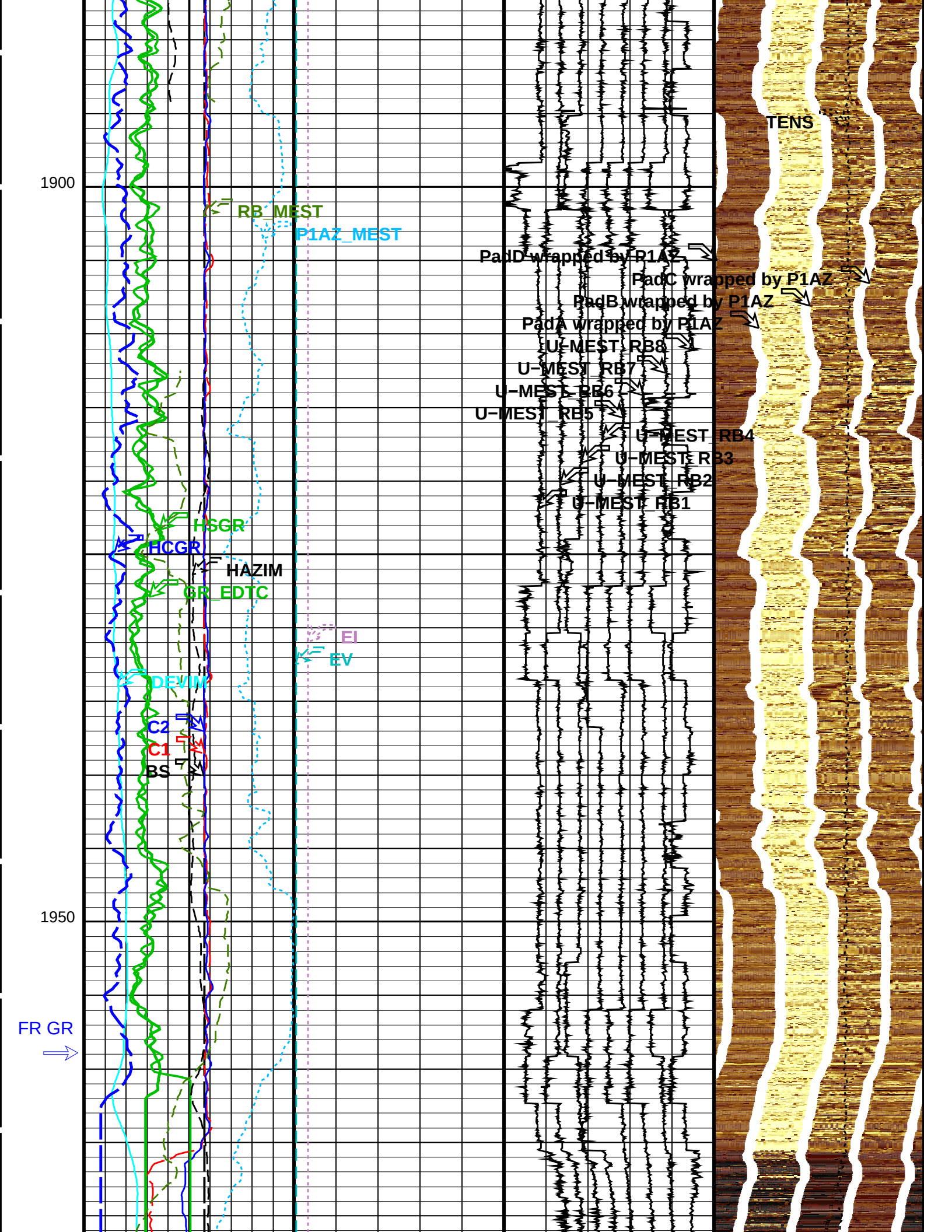
Tension (TENS)
10000 (LBF) 0

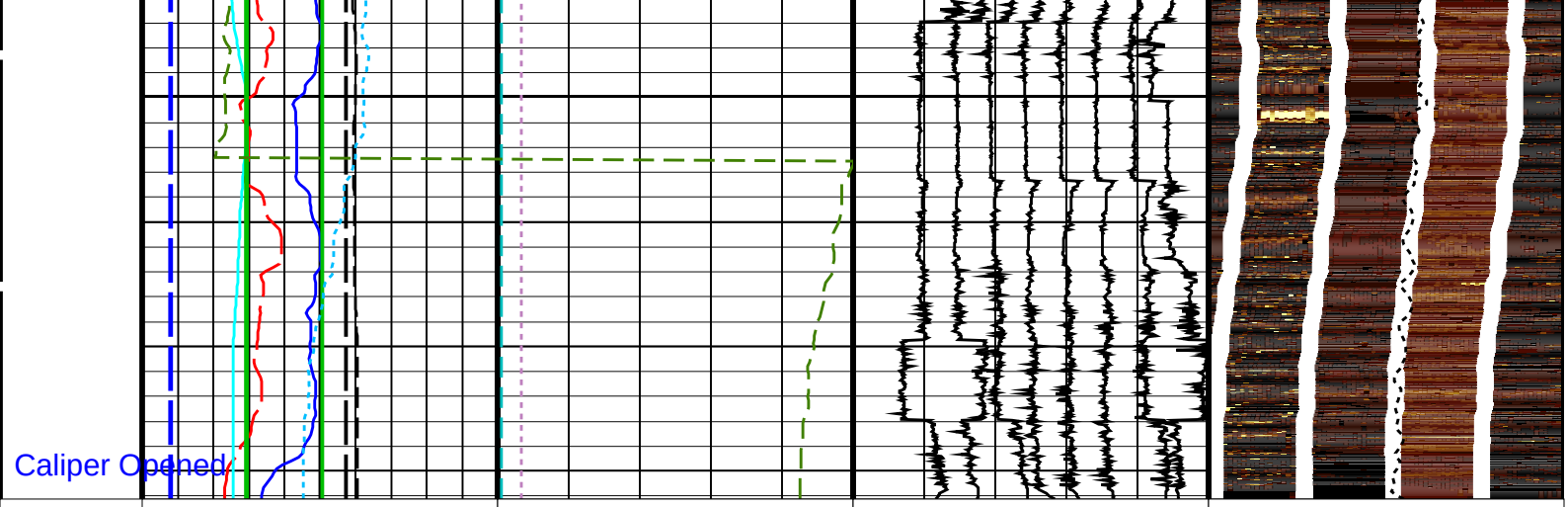



1650
1700


1750
1800
TENS
RB_MEST
P1AZ_MEST
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
HSGR
HCGR
HAZIM
GR_EDTC
EI
EV
DEVIM
C2
C1


BS
1850


1900
1950
FR GR
RB_MEST
P1AZ_MEST
HSGR
HCGR
HAZIM
GR_EDTC
EI
EV
DEVI
C2
C1
BS
TENS
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1




| | | | |
|---|---|---|---|
| Caliper 1 (C1)<br>0 (IN) 20 | EMEX Voltage (EV)<br>0 (V) 50 | Data Button 1 − Varies with RBS (U−MEST_RB1)<br>−10 (−−−−) 90 | Tension (TENS)<br>10000 (LBF) 0 |
| Caliper 2 (C2)<br>0 (IN) 20 | EMEX Intensity (EI)<br>0 (AMPS) 10 | Data Button 2 − Varies with RBS (U−MEST_RB2)<br>−20 (−−−−) 80 | 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086<br>MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU)<br>(−−−−) |
| Deviation (DEVIM)<br>0 (DEG) 10 | | Data Button 3 − Varies with RBS (U−MEST_RB3)<br>−30 (−−−−) 70 | 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086<br>MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU)<br>(−−−−) |
| Hole Azimuth (HAZIM)<br>−40 (DEG) 360 | | Data Button 4 − Varies with RBS (U−MEST_RB4)<br>−40 (−−−−) 60 | 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086<br>MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU)<br>(−−−−) |
| Pad One Azimuth (P1AZ_MEST)<br>−40 (DEG) 360 | | Data Button 5 − Varies with RBS (U−MEST_RB5)<br>−50 (−−−−) 50 | 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086<br>MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU)<br>(−−−−) |
| Relative Bearing (RB_MEST)<br>−40 (DEG) 360 | | Data Button 6 − Varies with RBS (U−MEST_RB6)<br>−60 (−−−−) 40 | |
| Bit Size (BS)<br>0 (IN) 20 | | Data Button 7 − Varies with RBS (U−MEST_RB7)<br>−70 (−−−−) 30 | |
| Gamma Ray (GR_EDTC)<br>0 (GAPI) 100 | | Data Button 8 − Varies with RBS (U−MEST_RB8)<br>−80 (−−−−) 20 | |
| HNGS Computed Gamma Ray (HCGR)<br>0 (GAPI) 100 | | | |
| HNGS Spectroscopy Gamma Ray (HSGR)<br>0 (GAPI) 100 | | | |

Up #1 pass FMS images

PIP SUMMARY

Time Mark Every 60 S

## Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | **MEST−B: Micro Electrical Scanner − B (Slim)** | | |
| AFMO | Accelerometer Filtering Mode | MOVING_AVERAGE | |
| ICMO | Inclinometry Computation Mode | AUTOMATIC_SELECTION | |
| MDEC | Magnetic Field Declination | 1.78491 | DEG |
| MLM | MEST Logging Mode | SCAN1800 | |
| RBS | Resistivity Button Selection | AUTO | |
| XGAI | Gain | GAIN_2 | |
| XOFF | Offset | OFFSET_0 | |
| | **DSST−B: Dipole Shear Imager − B** | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | **HNGS−BA: Hostile Natural Gamma Ray Sonde** | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | −0.000870016 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma−Ray Correction Flag | YES | |
| TPOS | Tool Position | CENT | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 1.04989 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.00333 | |
| | **EDTC−B: Enhanced DTS Cartridge** | | |
| BHS | Borehole Status | OPEN | |
| GCSE | Generalized Caliper Selection | BS | |
| | **System and Miscellaneous** | | |
| BS | Bit Size | 11.438 | IN |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

**Format: MEST_C_WRAP_BY_P1AZ** **Vertical Scale: 1:300** **Graphics File Created: 25−Oct−2016 07:54**

## OP System Version: 19C0−187

| | | | |
|---|---|---|---|
| **MEST−B** | **19C0−187** | **DTA−A** | **19C0−187** |
| **DSST−B** | **19C0−187** | **HNGC−B** | **19C0−187** |
| **HNGS−BA** | **19C0−187** | **EDTC−B** | **SKK−5169−EDTCB** |

## Input DLIS Files

| | | | | | |
|---|---|---|---|---|---|
| | **FMS_DSI_NGS_023LUP** | **FN:40** | **24−Oct−2016 07:45** | **1991.1 M** | **1604.8 M** |

## Output DLIS Files

| | | | | |
|---|---|---|---|---|
| **DEFAULT** | **FMS_DSI_NGS_033PUP** | **FN:50** | **PRODUCER** | **25−Oct−2016 07:53** |

Calibration and Check Summary

| Measurement | Nominal | Master | Before | After | Change | Limit | Units |
|---|---|---|---|---|---|---|---|
| Micro Electrical Scanner − B (Slim) Wellsite Calibration − Caliper Calibration | | | | | | | |
| Before: 19−Oct−2016 15:55 | | | | | | | |
| Caliper 1 Zero Measurement | 12.00 | N/A | 12.53 | N/A | N/A | N/A | IN |
| Caliper 2 Zero Measurement | 12.00 | N/A | 12.55 | N/A | N/A | N/A | IN |
| Caliper 1 Plus Measurement | 15.20 | N/A | 15.70 | N/A | N/A | N/A | IN |
| Caliper 2 Plus Measurement | 15.20 | N/A | 15.70 | N/A | N/A | N/A | IN |
| Micro Electrical Scanner − B (Slim) Wellsite Calibration − CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY | | | | | | | |
| Before: 24−Oct−2016 5:40 | | | | | | | |

Before: 24−Oct−2016 5:48

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 − CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY
Before: 24−Oct−2016 5:49

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TEMPERATURE REFERENCE : | N/A | N/A | 19 | 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 | 12 | N/A | N/A | N/A | |
| SERIAL NUMBER : | N/A | N/A | 428 | N/A | N/A | N/A | |

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check
Master: 4−Oct−2016 17:52 Before: 16−Oct−2016 15:05

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Na 511 Peak Loc | 40.00 | 38.68 | 38.56 | N/A | N/A | 1.000 | |
| Na 511 Peak Res | 15.50 | 17.78 | 16.92 | N/A | N/A | 2.000 | % |
| High Voltage | 1150 | 1238 | 1239 | N/A | N/A | N/A | V |
| Na 1785 Peak Loc | 142.6 | 139.7 | 140.3 | N/A | N/A | 7.000 | |
| Na 1785 Peak Res | 8.500 | 9.609 | 9.404 | N/A | N/A | 2.000 | % |
| Temperature | 15.50 | 36.36 | 36.72 | N/A | N/A | N/A | DEGC |
| Na Count Rate | 45.00 | 32.02 | 31.97 | N/A | N/A | 8.000 | CPS |

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check
Master: 4−Oct−2016 17:52 Before: 16−Oct−2016 15:05

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Na 511 Peak Loc | 40.00 | 39.49 | 39.63 | N/A | N/A | 1.000 | |
| Na 511 Peak Res | 15.50 | 16.83 | 17.09 | N/A | N/A | 2.000 | % |
| High Voltage | 1150 | 1115 | 1116 | N/A | N/A | N/A | V |
| Na 1785 Peak Loc | 142.6 | 143.2 | 143.6 | N/A | N/A | 7.000 | |
| Na 1785 Peak Res | 8.500 | 8.724 | 9.768 | N/A | N/A | 2.000 | % |
| Temperature | 15.50 | 35.80 | 36.48 | N/A | N/A | N/A | DEGC |
| Na Count Rate | 45.00 | 32.17 | 32.24 | N/A | N/A | 8.000 | CPS |

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: 4−Oct−2016 17:52 Before: 16−Oct−2016 15:05

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Coincidence Count Rate Ratio | 1.000 | 0.9926 | 0.9880 | N/A | N/A | 0.05000 | |

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 1 Calibration
Master: 4−Oct−2016 17:46

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Na 511 Peak Set Point | 40.00 | 40.00 | −− | −− | −− | −− | |
| Th Peak Loc | 209.6 | 211.7 | −− | −− | −− | −− | |
| Th Peak Res | 7.000 | 8.229 | −− | −− | −− | −− | % |
| Background Count Rate | 142.5 | 27.89 | −− | −− | −− | −− | CPS |
| Gain Ratio | 1.000 | 1.041 | −− | −− | −− | −− | |

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 2 Calibration
Master: 4−Oct−2016 17:46

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Na 511 Peak Set Point | 40.00 | 41.00 | −− | −− | −− | −− | |
| Th Peak Loc | 209.6 | 211.6 | −− | −− | −− | −− | |
| Th Peak Res | 7.000 | 7.475 | −− | −− | −− | −− | % |
| Background Count Rate | 142.5 | 28.59 | −− | −− | −− | −− | CPS |
| Gain Ratio | 1.000 | 1.019 | −− | −− | −− | −− | |

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 24−Oct−2016 5:50

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EDTC Z−Axis Acceleration | 9.810 | N/A | 9.730 | N/A | N/A | N/A | M/S2 |

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: 4−Oct−2016 17:55

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Gamma Ray (Jig − Bkg) | 150.8 | N/A | 150.8 | N/A | N/A | 13.71 | 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 − AC | GPIC − AC |
| MEST Acquisition Cartridge − A | MEAC − A |

Auxiliary Equipment:

| | |
|---|---|
| MEST−B Preamplifier Cartridge Housing | MEPH − A |
| MEST Acquisition Cartridge Housing (Slim | MEAH − B |

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

| | | |
|---|---|---|
| Primary Equipment: | | |
| HNGC Cartridge | HNGC − B | 439 |
| Auxiliary Equipment: | | |
| HNGC Housing | HNGH − A | 380 |

## Hostile Natural Gamma Ray Sonde / Equipment Identification

| | | |
|---|---|---|
| Primary Equipment: | | |
| HNGS Sonde | HNGS − BA | 177 |
| Auxiliary Equipment: | | |
| HNGS Sonde Housing | HNSH − BA | 174 |
| Gamma Source Radioactive | GSR − U | 616008 |

### Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

| Phase | Na 511 Peak Loc | Value |
|---|---|---|
| Master | | 38.68 |
| Before | | 38.56 |
| | 37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum) | |

| Phase | Na 511 Peak Res % | Value |
|---|---|---|
| Master | | 17.78 |
| Before | | 16.92 |
| | 12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum) | |

| Phase | High Voltage V | Value |
|---|---|---|
| Master | | 1238 |
| Before | | 1239 |
| | 900.0 (Minimum) 1150 (Nominal) 1600 (Maximum) | |

| Phase | Na 1785 Peak Loc | Value |
|---|---|---|
| Master | | 139.7 |
| Before | | 140.3 |
| | 135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum) | |

| Phase | Na 1785 Peak Res % | Value |
|---|---|---|
| Master | | 9.609 |
| Before | | 9.404 |
| | 7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum) | |

| Phase | Temperature DEGC | Value |
|---|---|---|
| Master | | 36.36 |
| Before | | 36.72 |
| | −28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum) | |

| Phase | Na Count Rate CPS | Value |
|---|---|---|
| Master | | 32.02 |
| Before | | 31.97 |
| | 10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum) | |

Master: 4−Oct−2016 17:52 Before: 16−Oct−2016 15:05

### Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

| Phase | Na 511 Peak Loc | Value |
|---|---|---|
| Master | | 39.49 |
| Before | | 39.63 |
| | 37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum) | |

| Phase | Na 511 Peak Res % | Value |
|---|---|---|
| Master | | 16.83 |
| Before | | 17.09 |
| | 12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum) | |

| Phase | High Voltage V | Value |
|---|---|---|
| Master | | 1115 |
| Before | | 1116 |
| | 900.0 (Minimum) 1150 (Nominal) 1600 (Maximum) | |

| Phase | Na 1785 Peak Loc | Value |
|---|---|---|
| Master | | 143.2 |
| Before | | 143.6 |
| | 135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum) | |

| Phase | Na 1785 Peak Res % | Value |
|---|---|---|
| Master | | 8.724 |
| Before | | 9.768 |
| | 7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum) | |

| Phase | Temperature DEGC | Value |
|---|---|---|
| Master | | 35.80 |
| Before | | 36.48 |
| | −28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum) | |

| Phase | Na Count Rate CPS | Value |
|---|---|---|
| Master | | 32.17 |
| Before | | 32.24 |
| | 10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum) | |

Master: 4−Oct−2016 17:52 Before: 16−Oct−2016 15:05

### Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

| Phase | Coincidence Count Rate Ratio | Value |
|---|---|---|
| Master | | 0.9926 |
| Before | | 0.9880 |
| | 0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum) | |

Master: 4−Oct−2016 17:52

Master: 4−Oct−2016 17:52

Before: 16−Oct−2016 15:05

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

| Phase | Na 511 Peak Set Point | Value | Phase | Th Peak Loc | Value | Phase | Th Peak Res % | Value |
|---|---|---|---|---|---|---|---|---|
| Master | | 40.00 | Master | | 211.7 | Master | | 8.229 |
| | 38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum) | | | 201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum) | | | 5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum) | |

| Phase | Background Count Rate CPS | Value | Phase | Gain Ratio | Value |
|---|---|---|---|---|---|
| Master | | 27.89 | Master | | 1.041 |
| | 10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum) | | | 0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum) | |

Master: 4−Oct−2016 17:46

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

| Phase | Na 511 Peak Set Point | Value | Phase | Th Peak Loc | Value | Phase | Th Peak Res % | Value |
|---|---|---|---|---|---|---|---|---|
| Master | | 41.00 | Master | | 211.6 | Master | | 7.475 |
| | 38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum) | | | 201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum) | | | 5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum) | |

| Phase | Background Count Rate CPS | Value | Phase | Gain Ratio | Value |
|---|---|---|---|---|---|
| Master | | 28.59 | Master | | 1.019 |
| | 10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum) | | | 0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum) | |

Master: 4−Oct−2016 17:46

Enhanced DTS Cartridge / Equipment Identification

| | | |
|---|---|---|
| Primary Equipment: | | |
| EDTC Gamma Ray Detector | EDTG − A/B | 8305 |
| Enhanced DTS Cartridge | EDTC − B | 8317 |
| Auxiliary Equipment: | | |
| EDTC Housing | EDTH − B | 8303 |

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

| Phase | EDTC Z−Axis Acceleration M/S2 | Value |
|---|---|---|
| Before | | 9.730 |
| | 9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum) | |

Before: 24−Oct−2016 5:50

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

| Phase | Gamma Ray Background GAPI | Value | Phase | Gamma Ray (Jig − Bkg) GAPI | Value | Phase | Gamma Ray (Calibrated) GAPI | Value |
|---|---|---|---|---|---|---|---|---|
| Before | | 6.947 | Before | | 150.8 | Before | | 165.0 |
| | 0 (Minimum) 30.00 (Nominal) 120.0 (Maximum) | | | 137.1 (Minimum) 150.8 (Nominal) 164.5 (Maximum) | | | 150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum) | |

Before: 4−Oct−2016 17:55

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 363, Site U1482C**

Field: **Western Pacific Warm Pool**

| | |
|---|---|
| Field: | **Western Pacific Warm Pool** |
| Rig: | **JOIDES Resolution** |
| Ocean: | **Indian** |

| | |
|---|---|
| | Formation Micro Scanner (FMS)<br>Dipole Shear Sonic Imager (DSI)<br>Natural Gamma Ray |