

JAMSTEC

C0020A

C0020

Aomori

Country: **Japan**

Dipole Shear Sonic

Delta T Print

1:200

LOCATION	
Shimokita-oki	Elev.: K.B. 28.50 m
X = 600698.8 M	G.L. -1180.00 m
Y = 4559060.5 M	D.F. 28.50 m
Permanent Datum:	Elev.: 0.00 m
Log Measured From:	28.50 m above Perm. Datum
Drilling Measured From:	

Aomori

C0020

Shimokita-oki

C0020A

Pref.

Field:

Locat

Well: C0020A
Company: JAMSTEC

LOCATION			
Shimokita-oki		Elev.:	K.B. 28.50 m
X= 600698.8 M			G.L. -1180.00 m
Y=4559060.5 M			D.F. 28.50 m
Permanent Datum:		Elev.:	0.00 m
Log Measured From:		28.50 m	above Perm. Datum
Drilling Measured From:		Drilling Floor	
Drilling Floor			
Pref.	Max. Well Deviation	Longitude	Latitude
Aomori	1.22 deg	142° 12.0328' E	41° 10.5983' N

[illegible]

Logging Date	10-Sep-2012									
Run Number	2									
Depth Driller	3674.5 m									
Schlumberger Depth	3672 m									
Bottom Log Interval	3655.7 m									
Top Log Interval	2290 m									
Casing Driller Size @ Depth	13.375 in @ 2461.5 m									
Casing Schlumberger	2461 m									
Bit Size	10.625 in									
Type Fluid In Hole	KNPPmud									
Density	Viscosity				1.11 g/cm3 102 s					
Fluid Loss	PH				3.4 cm3 10.5					
Source Of Sample	Flowline									
RM @ Measured Temperature	0.082 ohm.m @ 25 degC									
RMF @ Measured Temperature	0.073 ohm.m @ 23 degC									
RMC @ Measured Temperature	0.095 ohm.m @ 26 degC									
Source RMF	RMC				Press					
RM @ MRT	RMF @ MRT				0.055 @ 48 0.047 @ 48					
Maximum Recorded Temperatures	48 degC 48 48									
Circulation Stopped	Time				9-Sep-2012 3:00					
Logger On Bottom	Time				10-Sep-2012 20:25					
Unit Number	Location				4803 JPOP					
Recorded By	Liu Jie/Montague									
Witnessed By	Mr. Yoshinori Sanada/Mr. Kyaw Moe									

Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth			@		
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density	Viscosity				
Fluid Loss	PH				
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					

[illegible]

DEPTH SUMMARY LISTING

Date Created: 15-SEP-2012 16:39:13

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	CMTD-B/A	Type:	7-46ZV-XXS
Serial Number:	6790	Serial Number:	2986	Serial Number:	711011
Calibration Date:	23-May-2012	Calibration Date:	18-Aug-2012	Length:	8050 M
Calibrator Serial Number:	123	Calibrator Serial Number:	973	Conveyance Method: Wireline Rig Type: Offshore Floater with WMC	
Calibration Cable Type:	7-46ZV-XXS	Number of Calibration Points:	10		
Wheel Correction 1:	-3	Calibration RMS:	12		
Wheel Correction 2:	-2	Calibration Peak Error:	20		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Composite Log
Reference Log Run Number:	1
Reference Log Date:	10-sep-2012

Depth Control Remarks

1. All schlumberger depth control policies applied.
2. IDW used as primary depth control and Z-chart as secondary.
3. WMC engaged at 100m going in and disengaged at 100m coming out. 8 Tons on compensator.
4. Depth correlated to Composite Log by GR curve around 3200m.
- 5.
- 6.

DISCLAIMER

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OTHER SERVICES1

- OS1: PEX-HRLA-HNGS-GR
OS2: CMR+-PPC
OS3: MDT
OS4: ZVSP
OS5:








REMARKS: RUN NUMBER 1

- Logging objective: formation evaluation.
- All wellsite information provided by client.
- Tool string combined as per tool sketch.
- Maximum borehole temperature reading 47.8 recorded from thermometer in LEH-QT.
- Maximum borehole deviation reading 1.22 recorded from GPIT.
- FMI logging mode: EMEX=180V and Gain AutoLow, PP=20%.

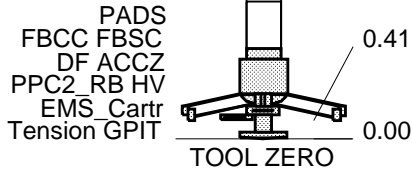
- DSI logging mode: Low frequency BCR (OH), Upper dipole (CH) and P&S.
- PPC was configured as centralizer.
- CME-Z was used for DSI centralization.
- FMI Caliper check in casing 12.5 in
- PPC Caliper check in casing 12.6 in.
- EMS Caliper check in casing 12.8 in.
- Repeat pass to cover 3210-3110 as requested.
- Monopole Shear is invalid due to slow formation
- DSI data qualities in casing are highly affected by cement quality.
- Wiper trip planned after CMR+ run and before MDT.
- ECRD run in place of mechanical weakpoint for every run.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

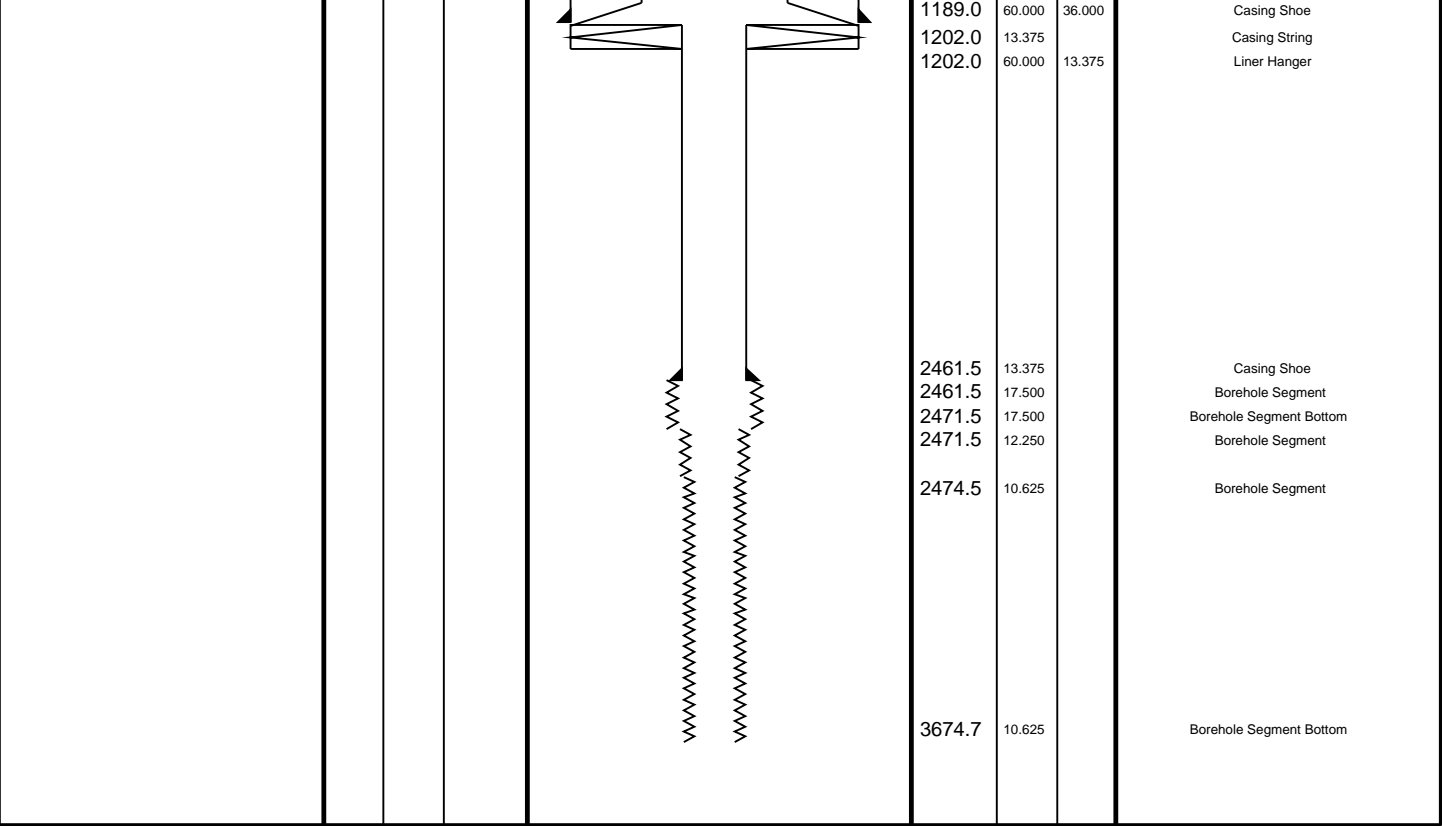
SURFACE EQUIPMENT			
WITM (EDTS)-A			
DOWNHOLE EQUIPMENT			
LEH-QT_ECRD 4308 LEH-QT_ECRD 1035			34.61
DTPC-A ECH-KJ 49 DTPC-A 49			33.72
		MDSB_EDTC Mud Tempe CTEM	31.89 30.83 30.26
EDTC-B EDTH-B 8466 EDTC-B 8479 EDTG-A/B 77415		Gamma Ray EFTB DIAG TelStatus EDTCB Ele	31.89 29.91
PPC2 PPC2-B 8558 PPC_CAL_STD 8558		Calipers	29.56 29.91
		PPC_Cartr Mud Resis Mud Tempe	27.93 27.75 27.50
EMS-B EMA-B 8002 RES 8002 EMC-B 8086 ECH-KH 8706 EMM-A 8078			27.93
		Calipers	24.61
DSST-B SPAC-B 8008 ECH-SD 8008 SMDR-BD 8007 SSIJ-BA 8008 SMDX-AA 8081			23.59

FBST-B
ECH-MRA 4827
FBCC-A 998
AH-184 782
AH-185 831
FBSH-A 911
GPIC-C 1843
FBSC-B 977
FBSS-B 911



MAXIMUM STRING DIAMETER 7.38 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in)			Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
Derrick Floor Elevation Mean Sea Level Seismic Gun depth below MSL			28.5		0.0	60.000	36.000	Casing String, Marine Riser
			0.0					
			5.0					
Bell Nipple Guide, Subsea BOP	60.000	36.000	1189.0					



Main Log
1:200

MAXIS Field Log

Company: JAMSTEC Well: C0020A

Input DLIS Files

DEFAULT FMI_DSI_EMS_CAL_027LUP FN:53 PRODUCER 10-Sep-2012 20:36 3672.8 M 2446.3 M

Output DLIS Files

DEFAULT FMI_DSI_EMS_CAL_189PUP FN:491 PRODUCER 16-Sep-2012 01:59 3675.3 M 2448.8 M
CLIENT FMI_DSI_EMS_CAL_189PUC FN:492 CUSTOMER 16-Sep-2012 01:59 3675.3 M 2448.8 M

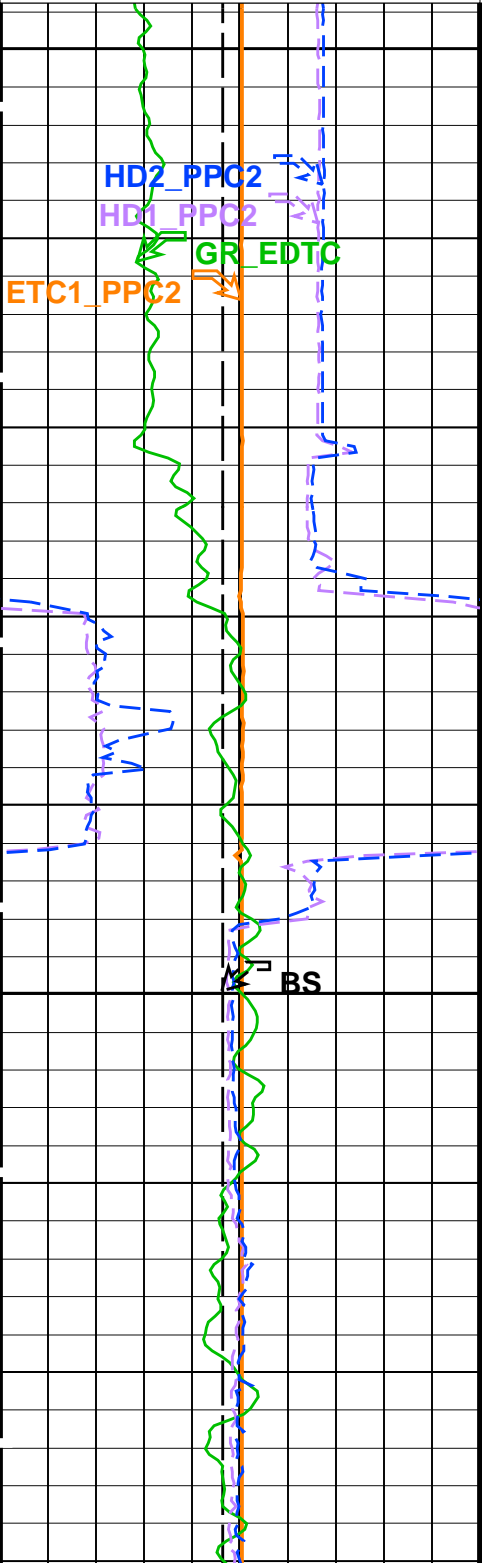
OP System Version: 19C1-222

FBST-B 19C1-222 DSST-B 19C1-222
EMS-B 19C1-222 PPC2 19C1-222
EDTC-B 19C1-222 DTPC-A 19C1-222

PIP SUMMARY

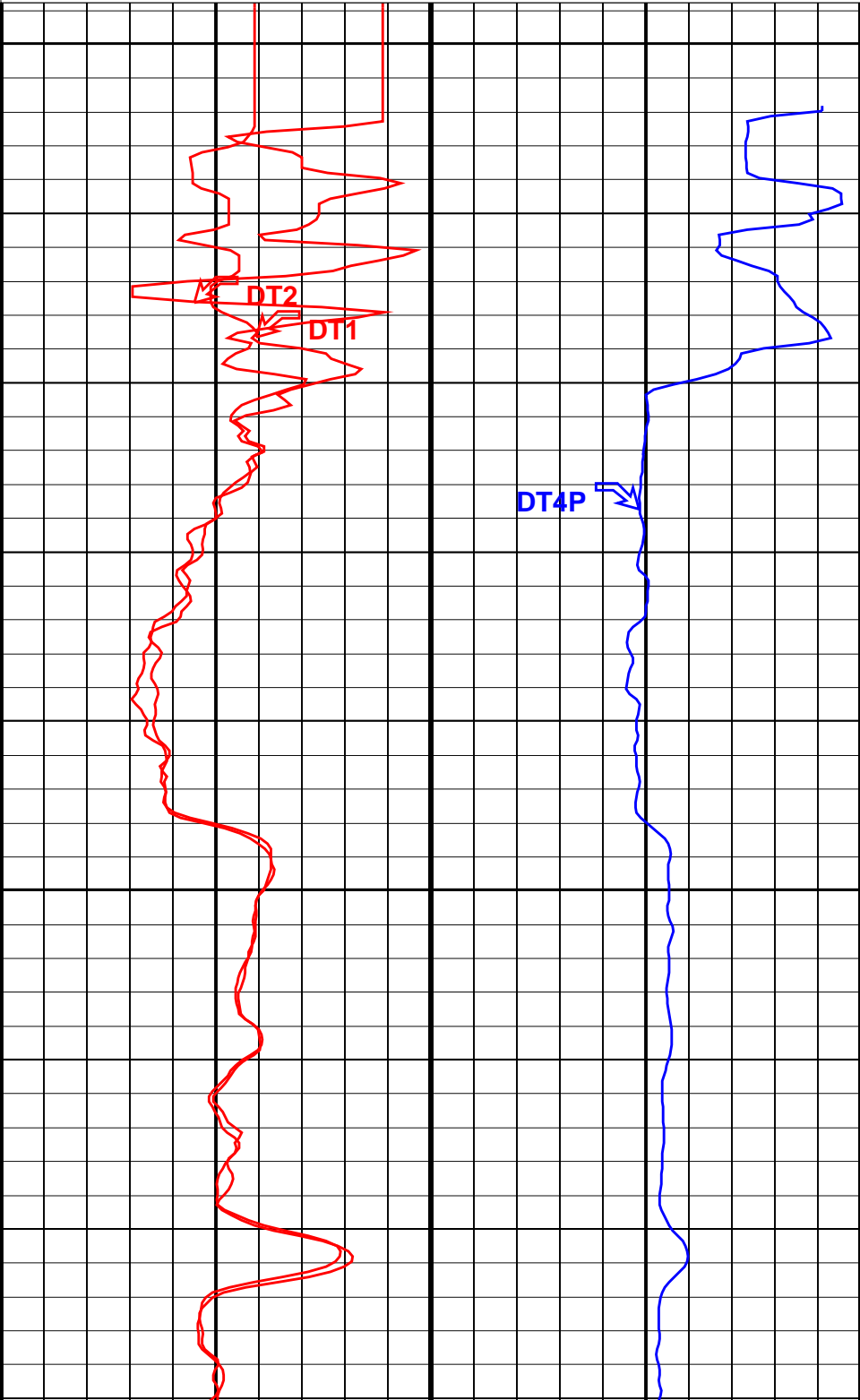
Time Mark Every 60 S		
PPC2 Tool Center 1 (ETC1_PPC2)		
10	(IN)	-10
PPC2 Hole Diameter 2 (HD2_PPC2)		
6	(IN)	16
PPC2 Hole Diameter 1 (HD1_PPC2)		
6	(IN)	16
Gamma Ray (GR_EDTC)		
0	(GAPI)	150
Bit Size (BS)		
6	(IN)	16

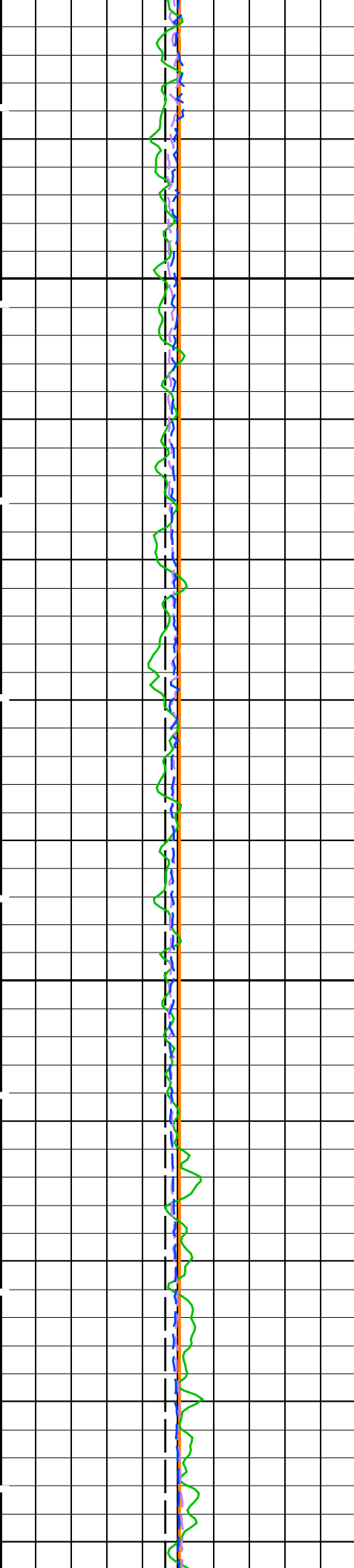
Delta-T Shear – Upper Dipole (DT2)		
440	(US/F)	40
Delta-T Shear – Lower Dipole (DT1)		
440	(US/F)	40
Delta-T Comp – P & S (DT4P)		
440	(US/F)	40



2450

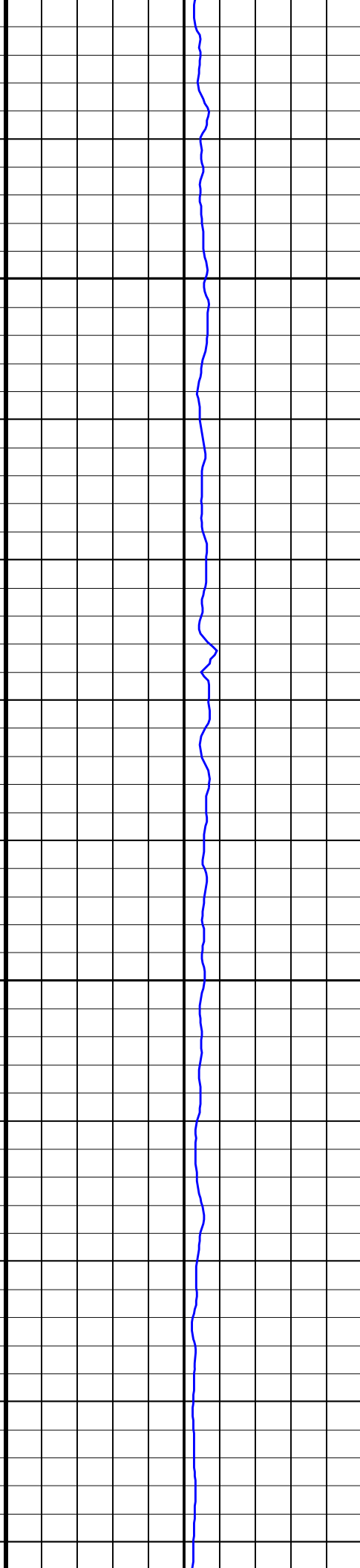
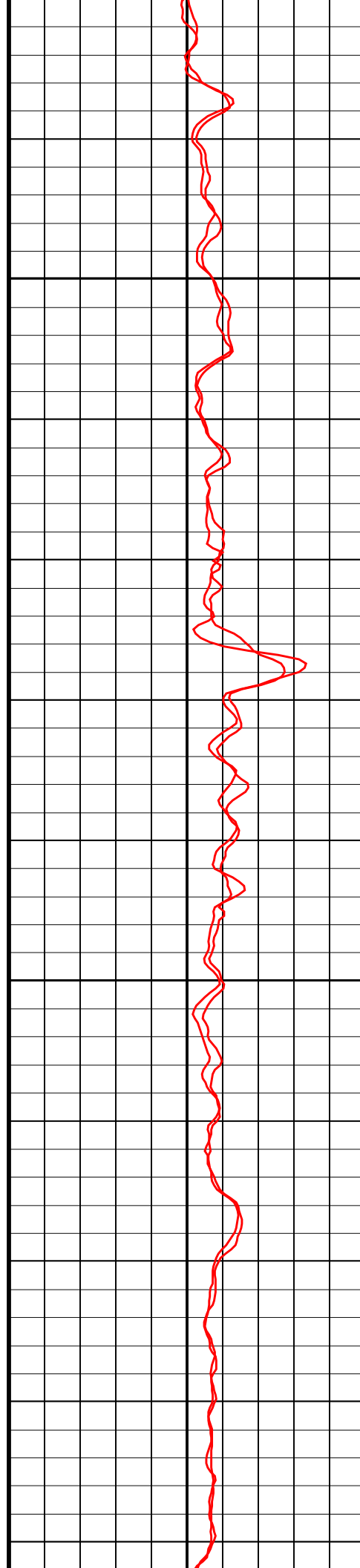
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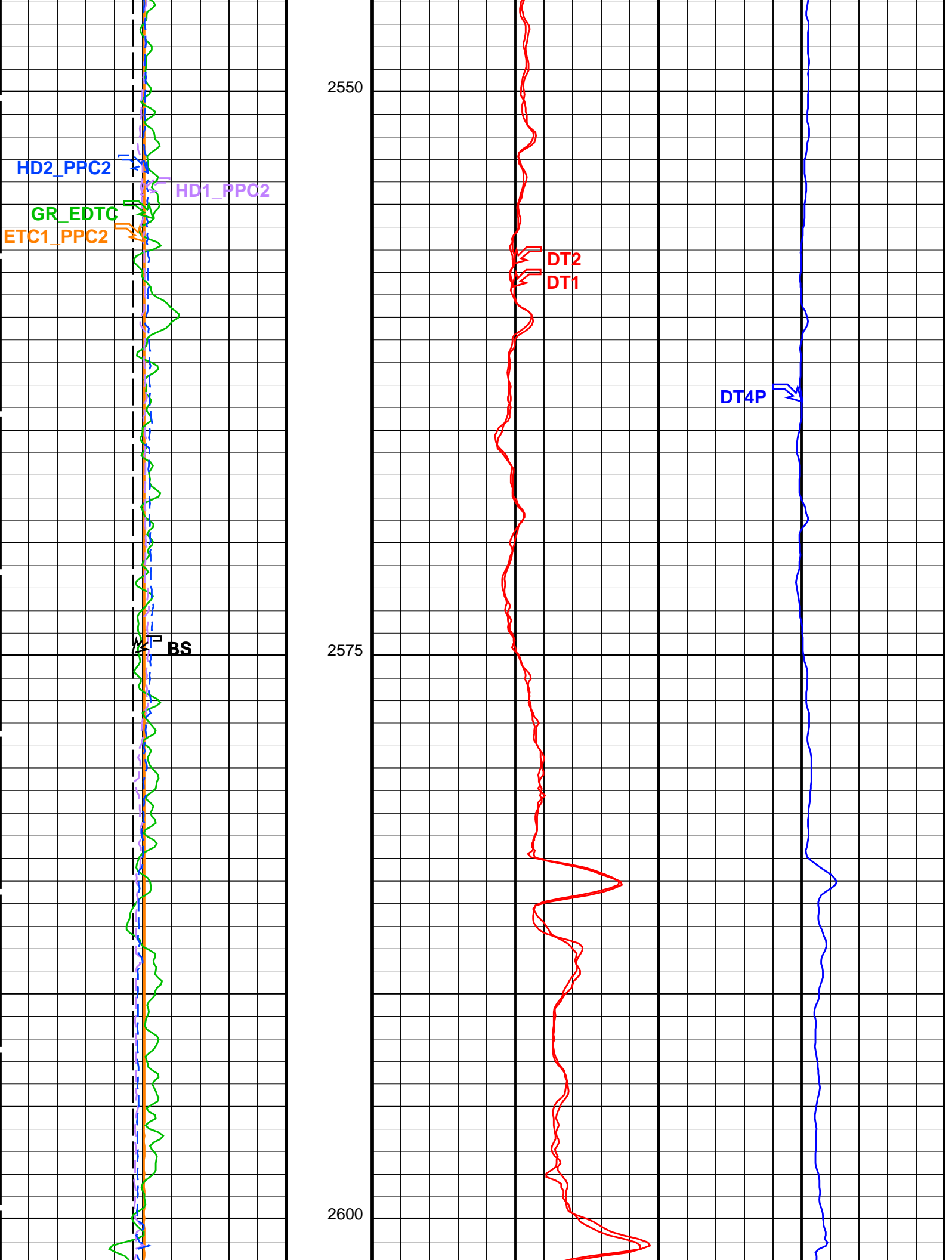


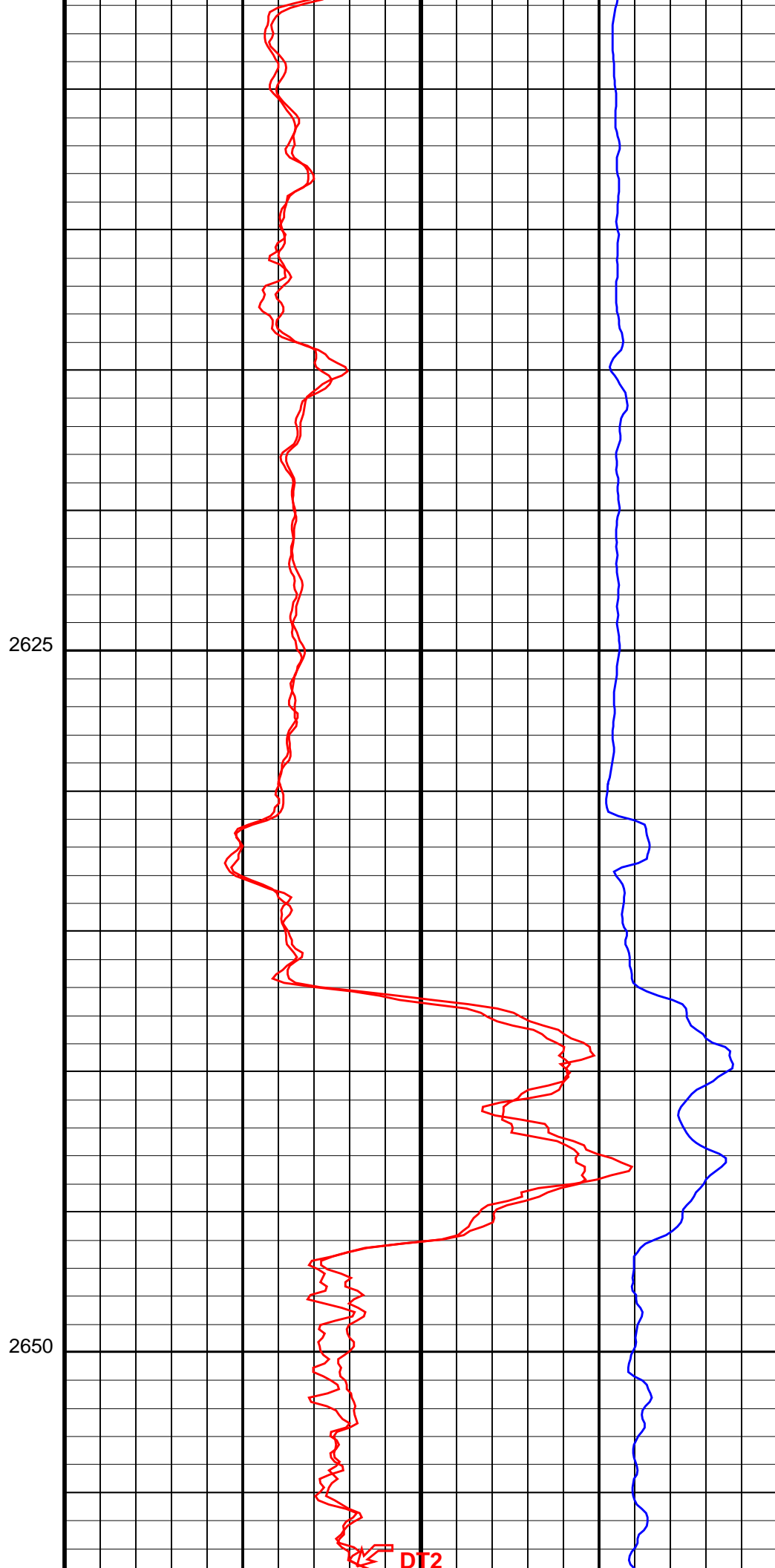
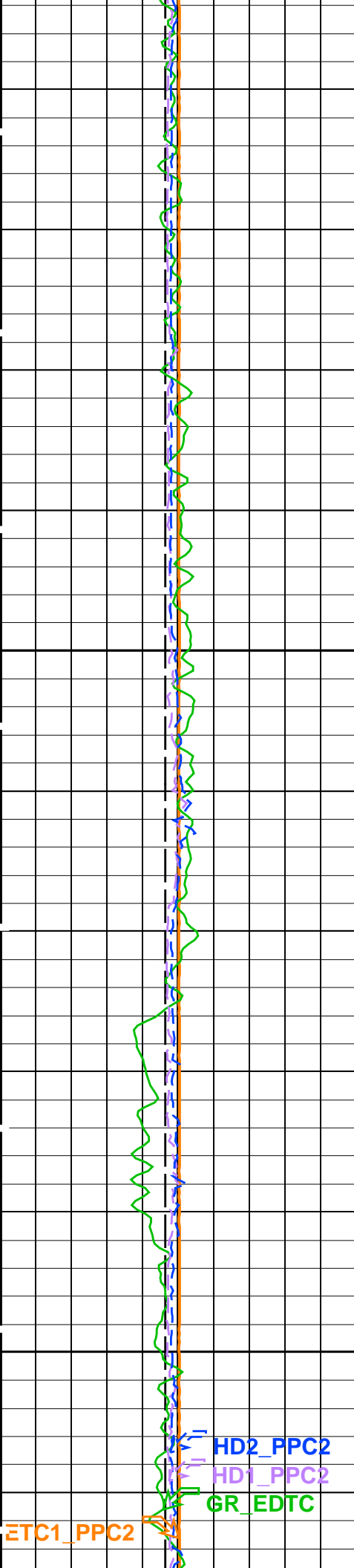


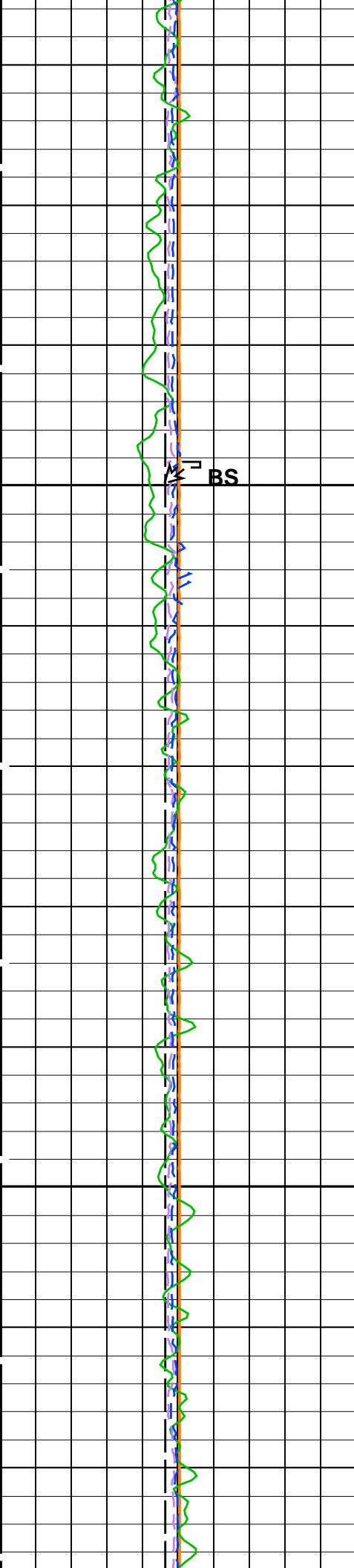
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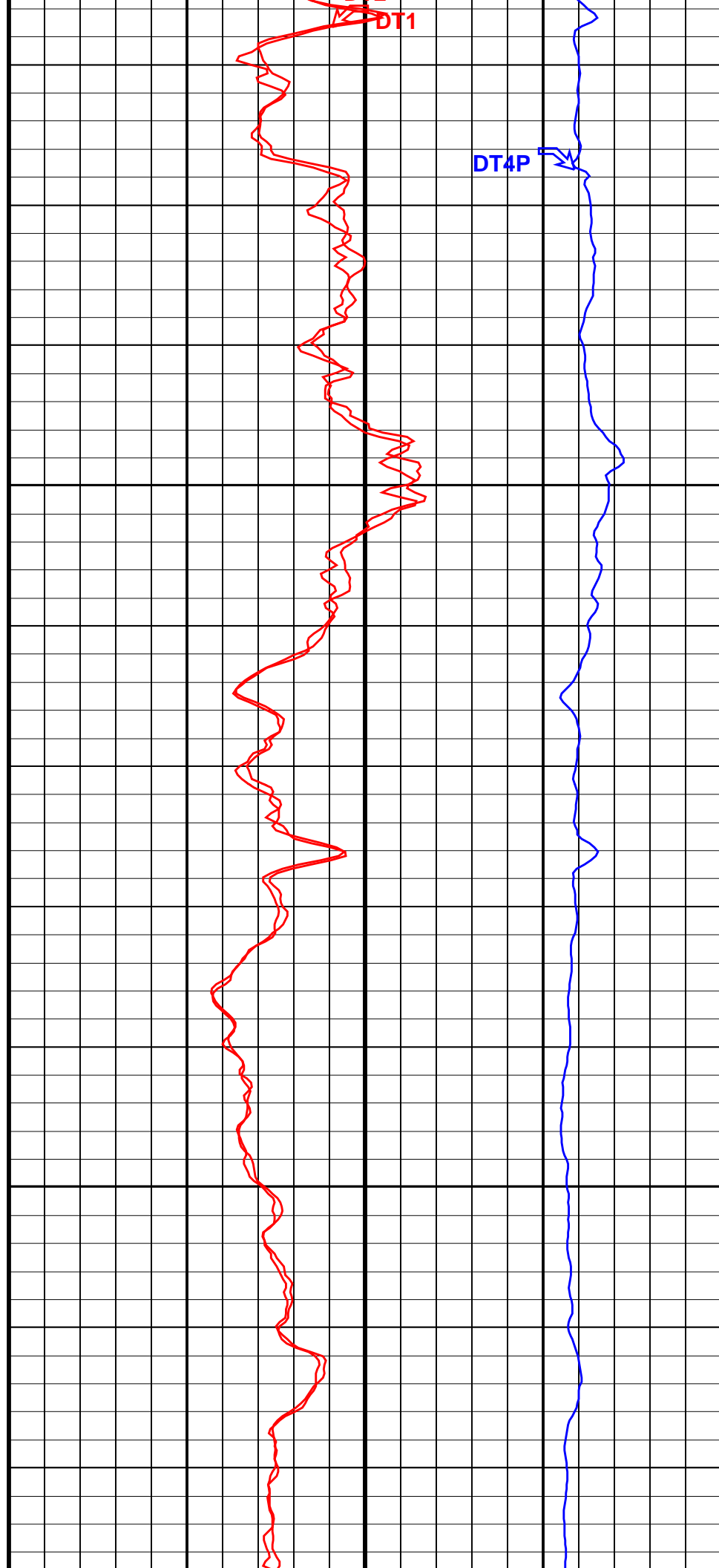


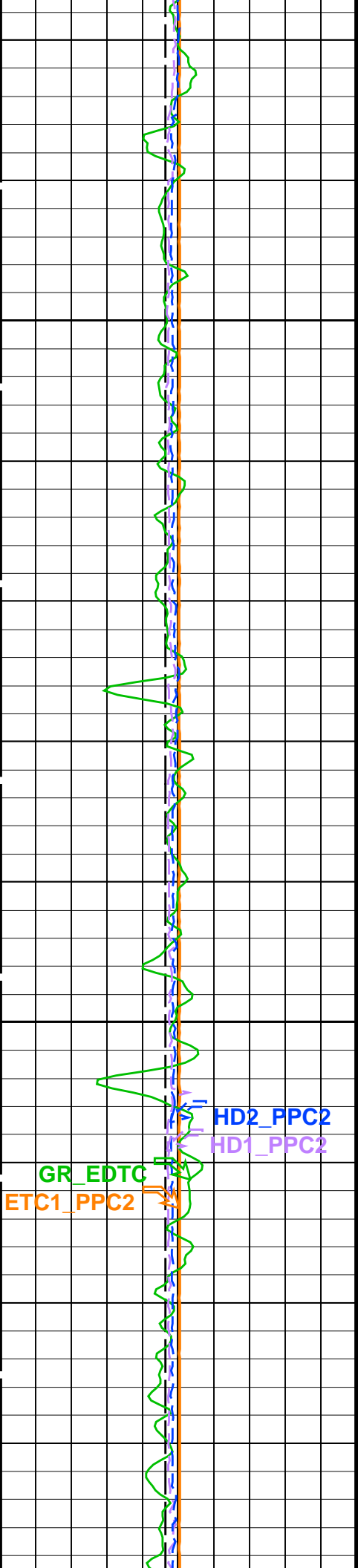




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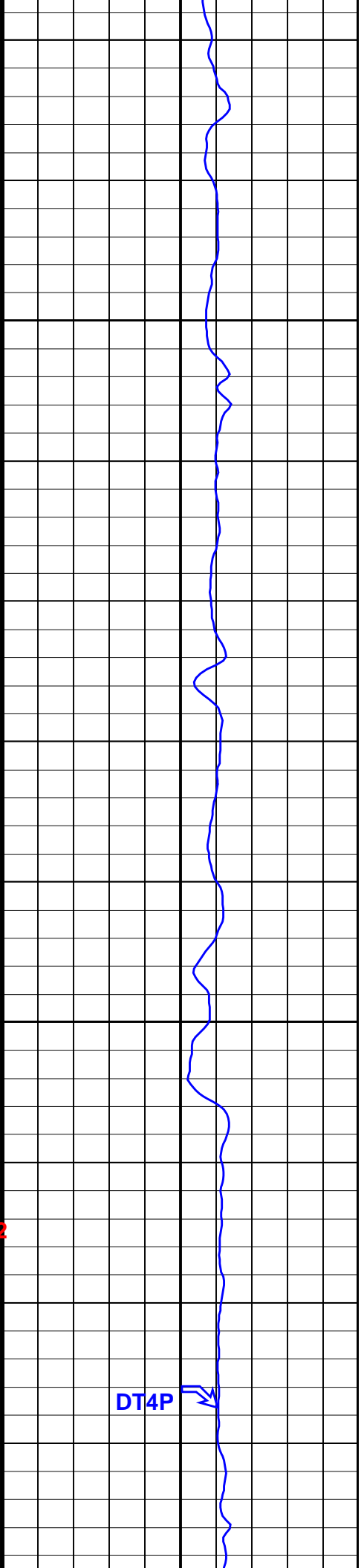
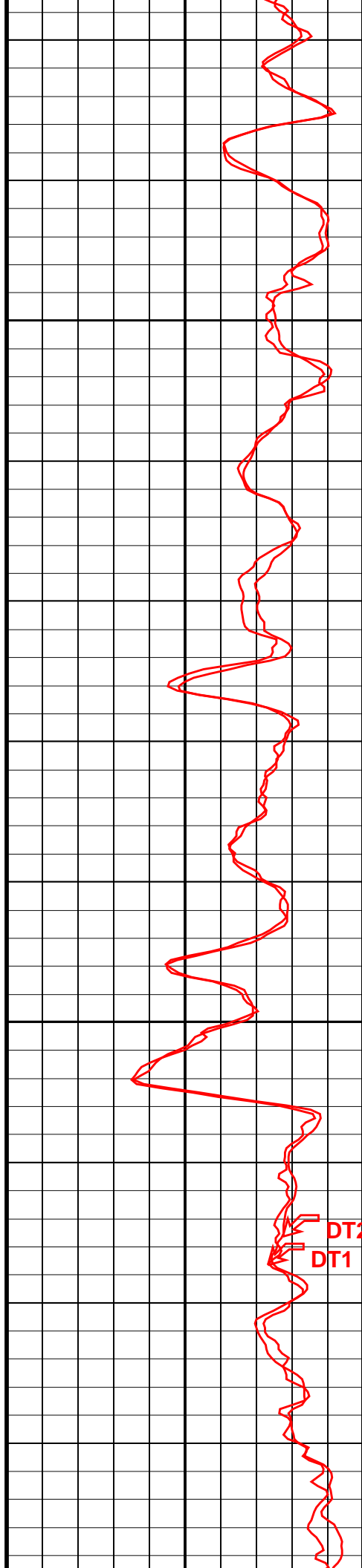
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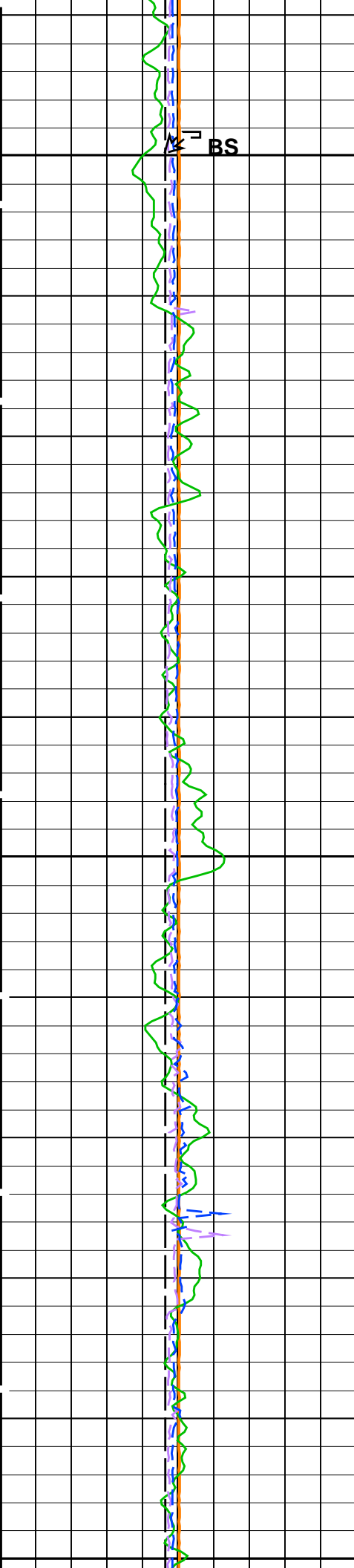


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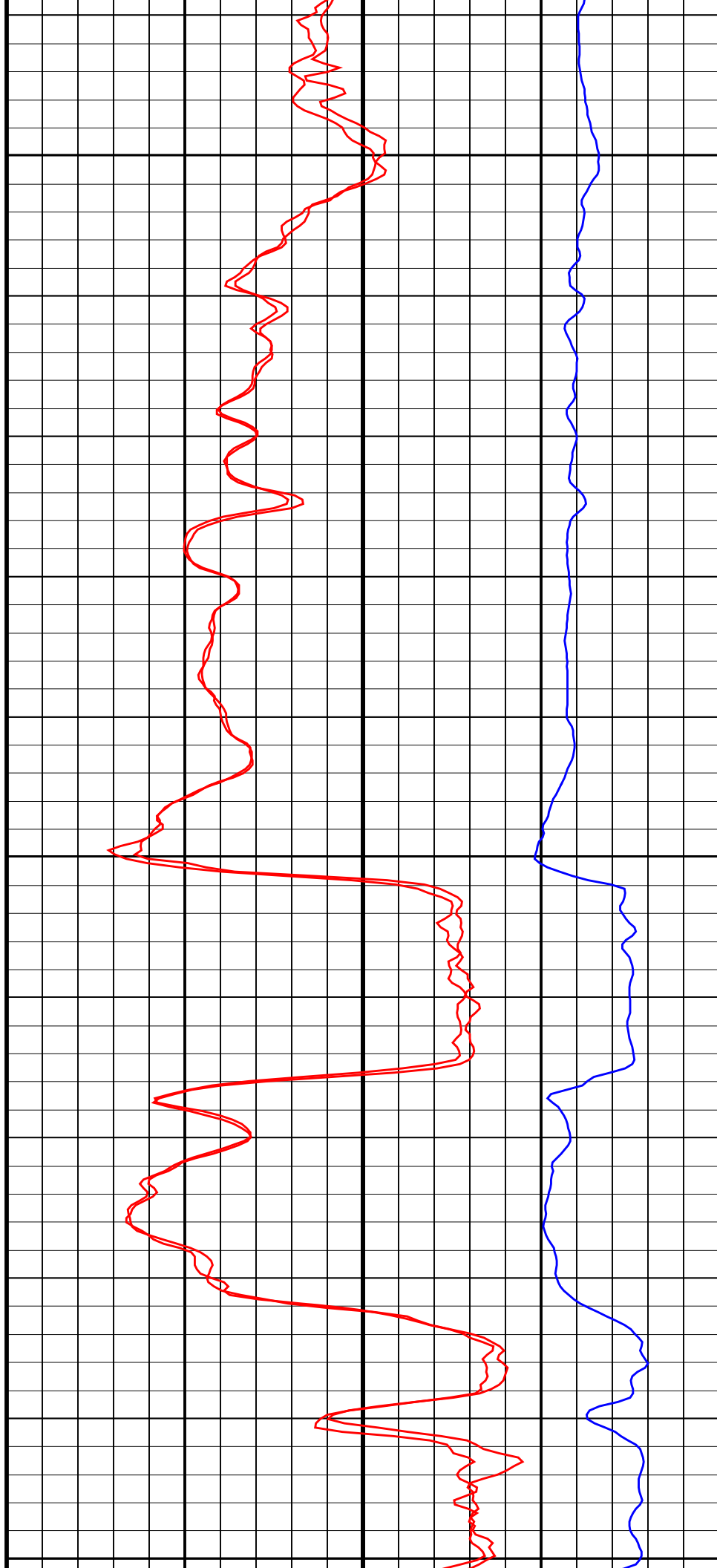
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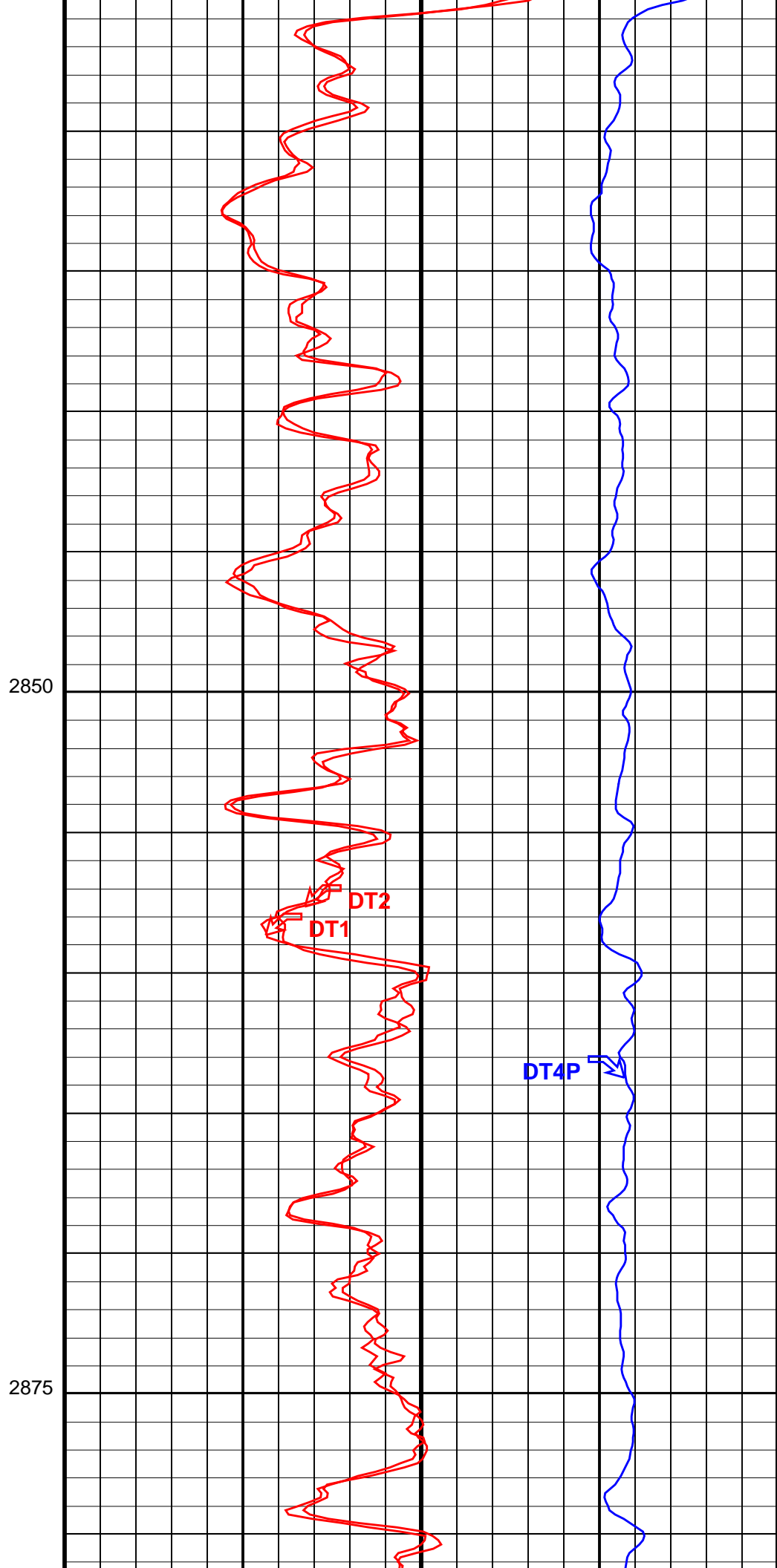
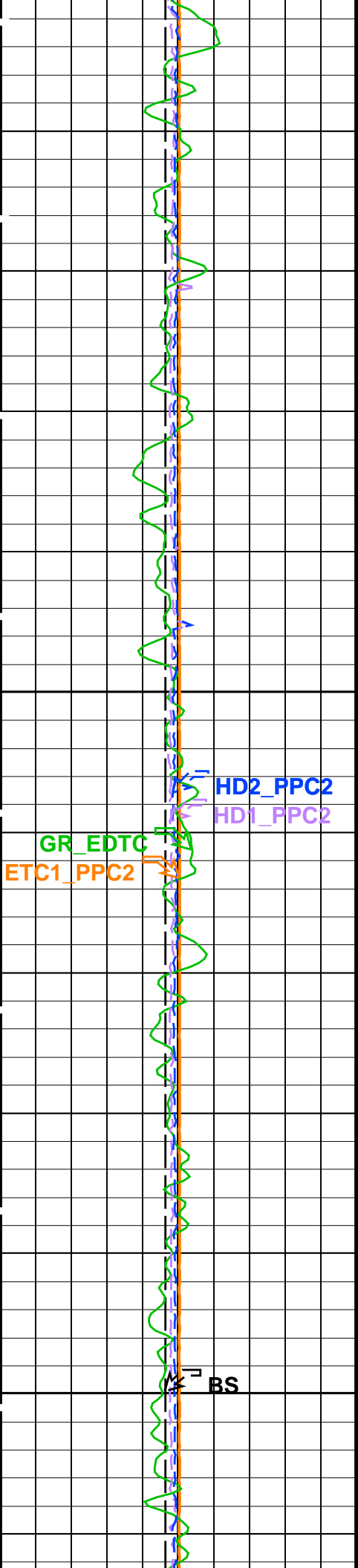


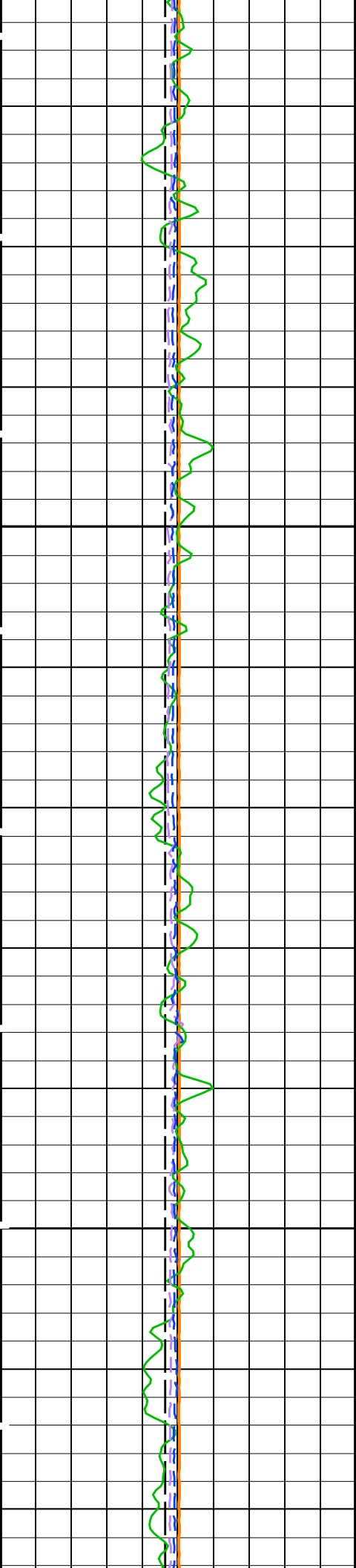
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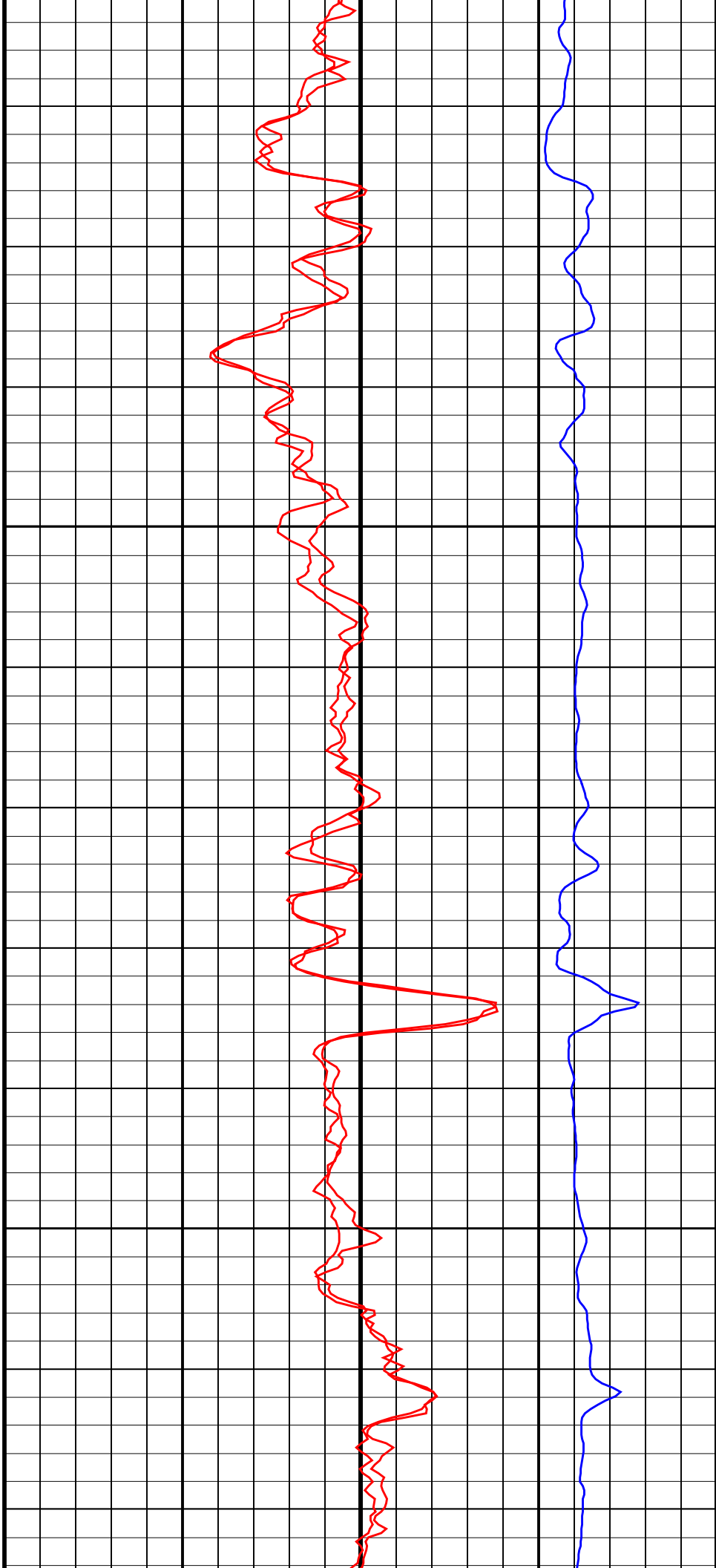


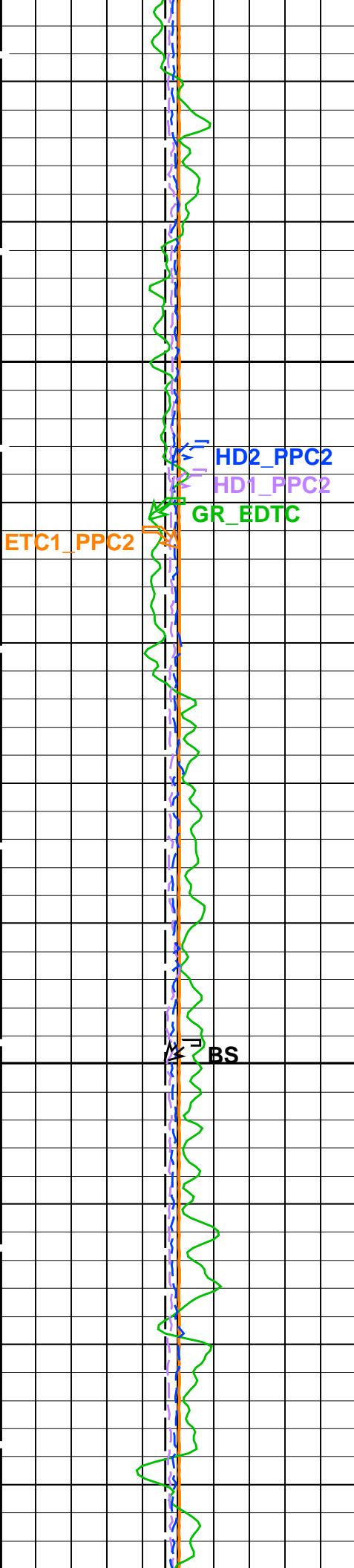




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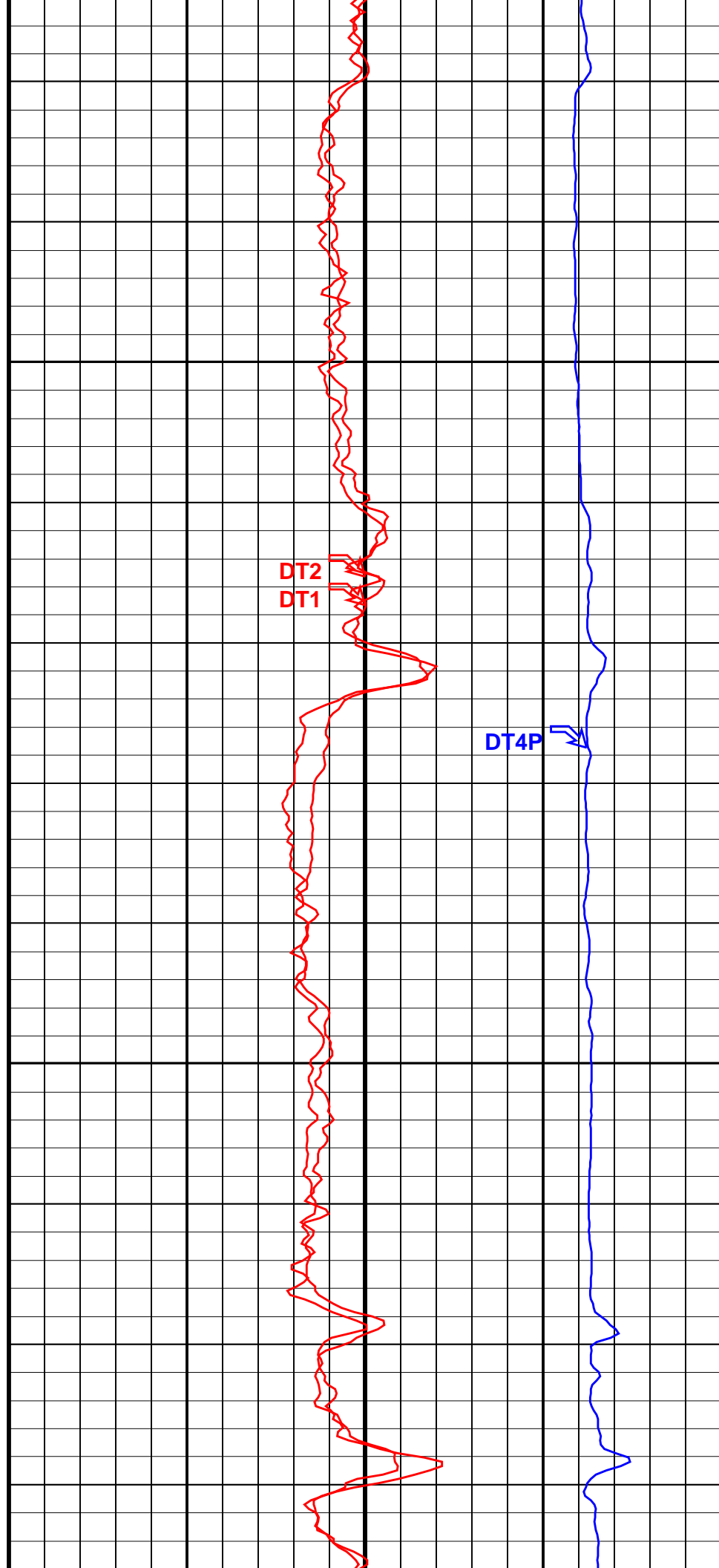
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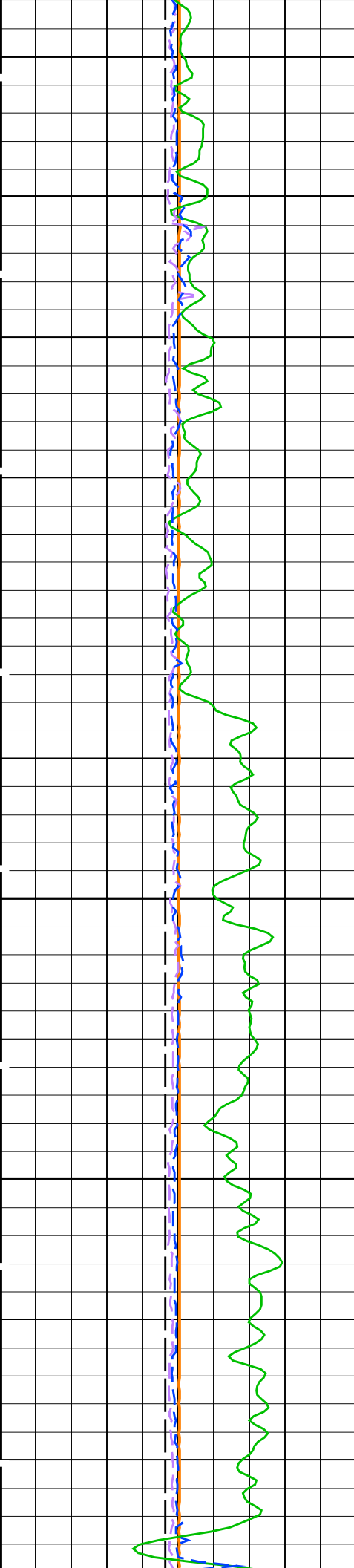




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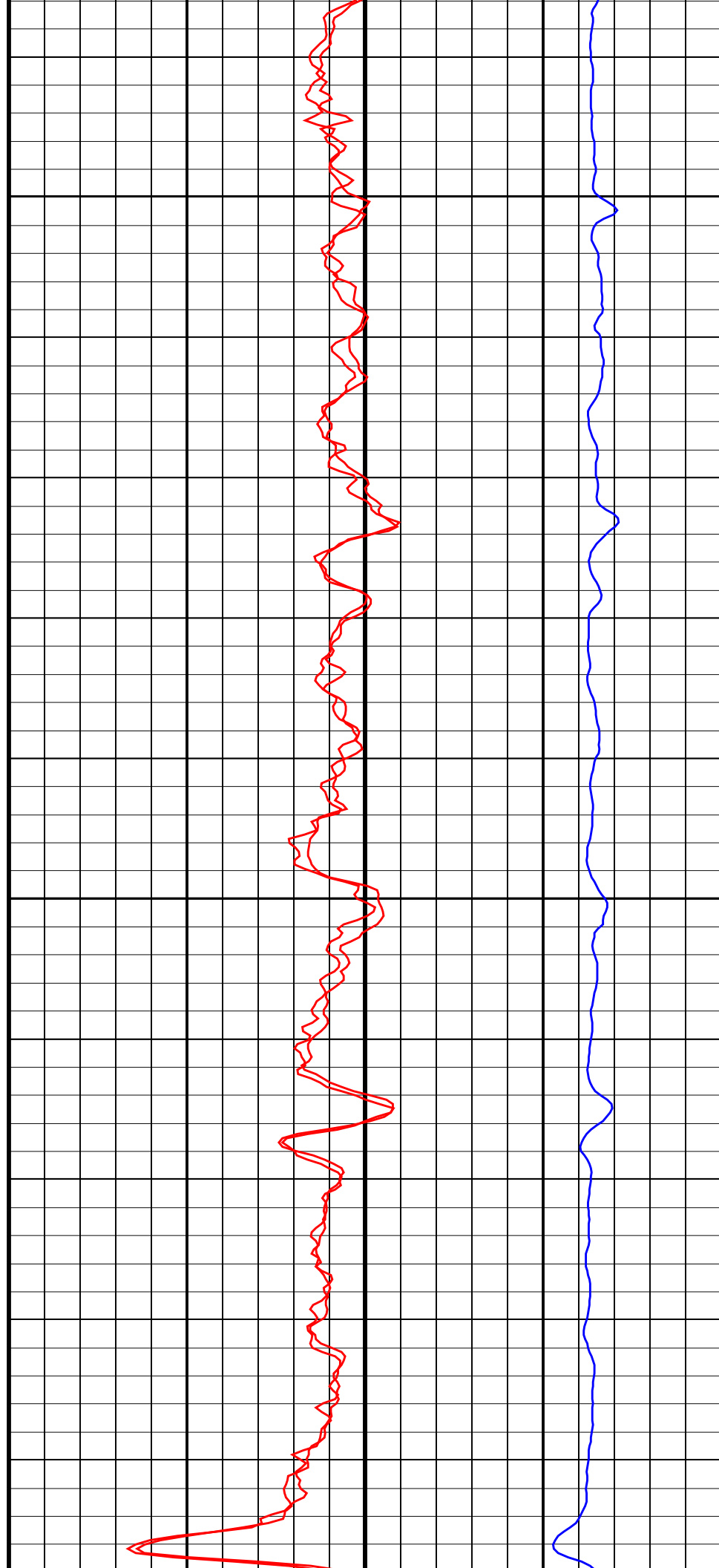
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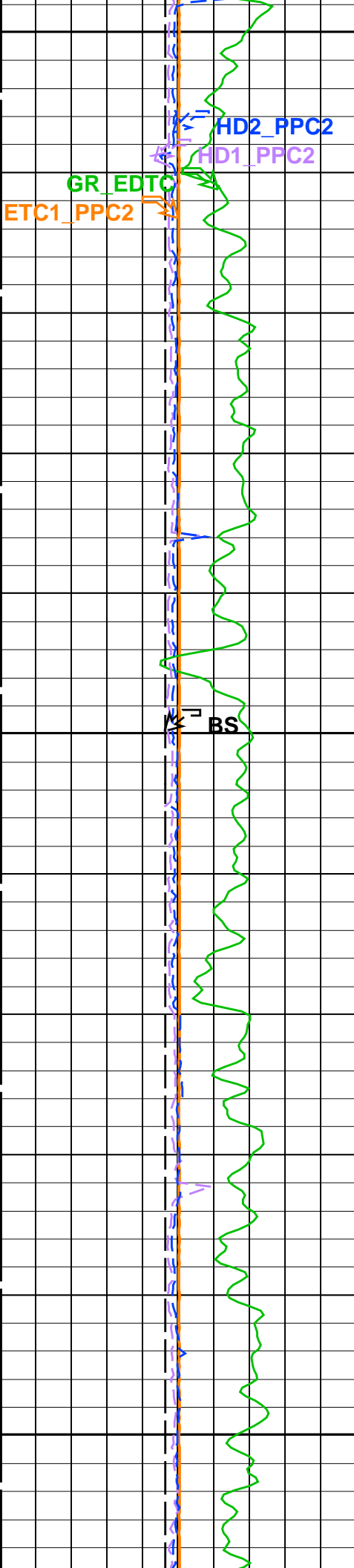




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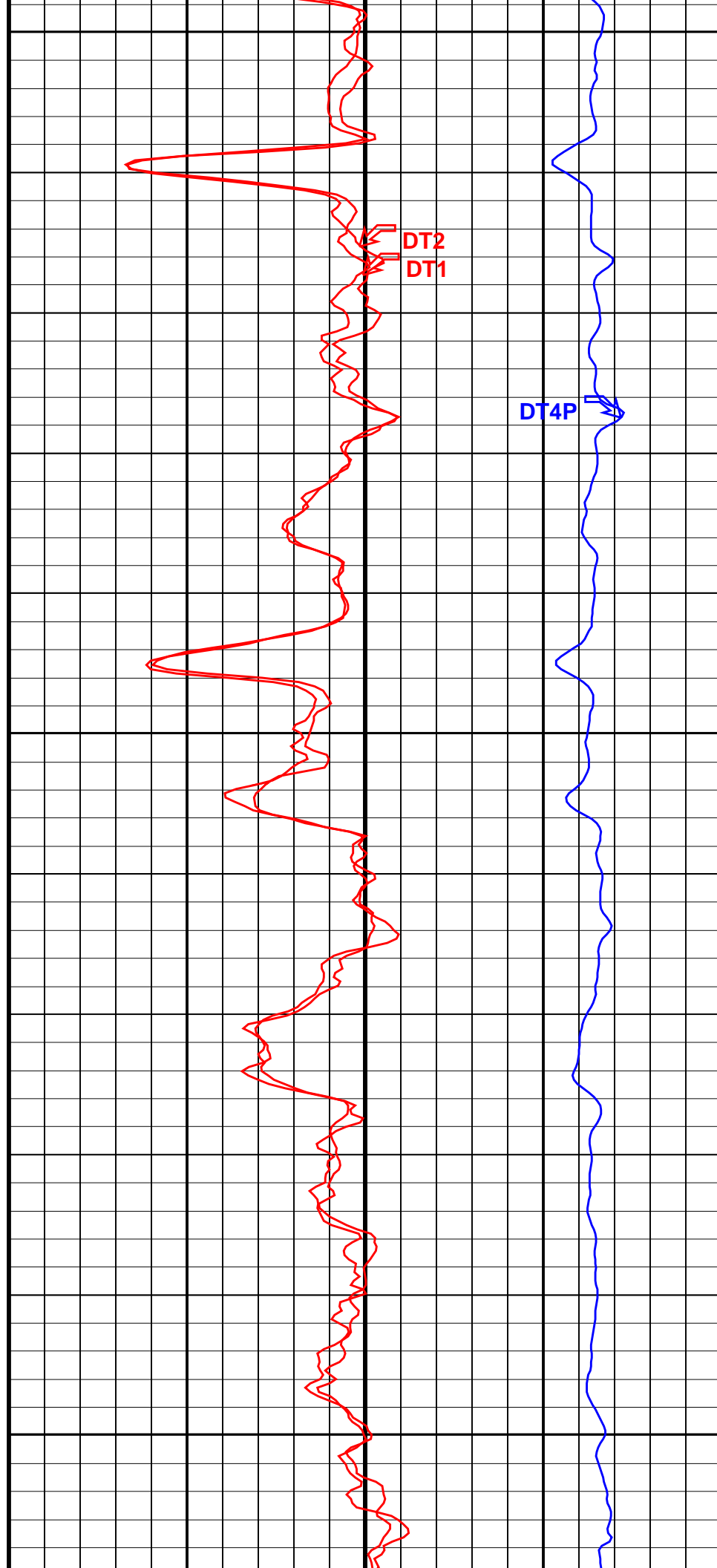


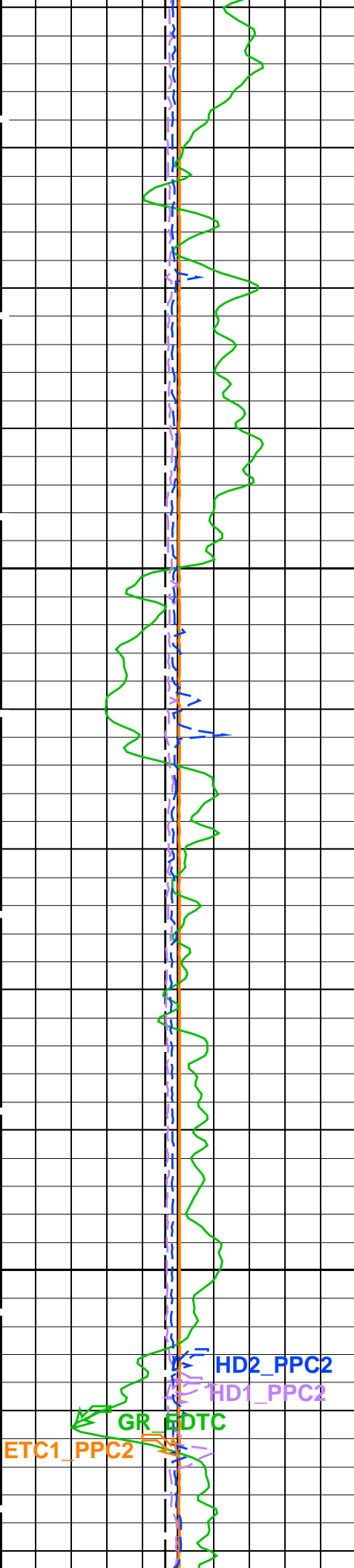


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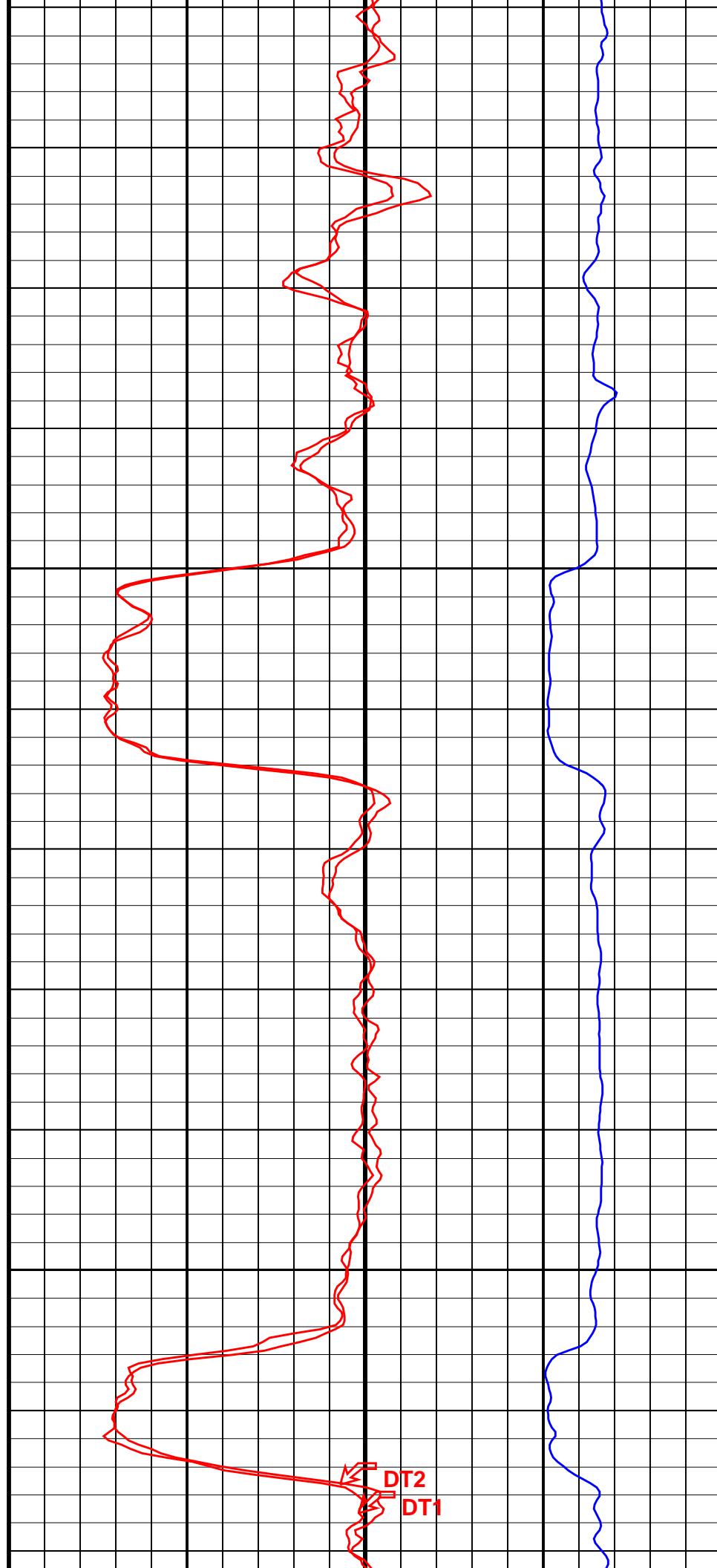
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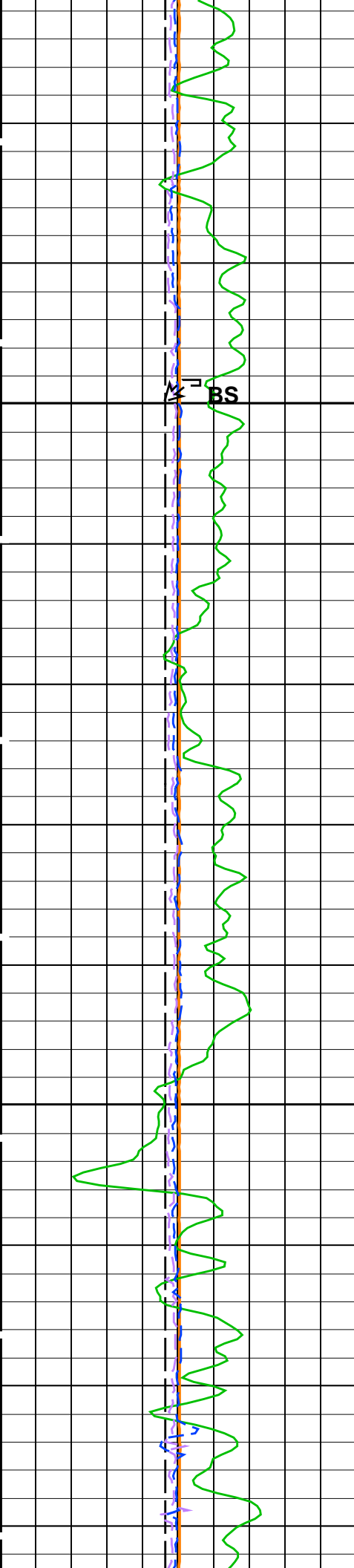




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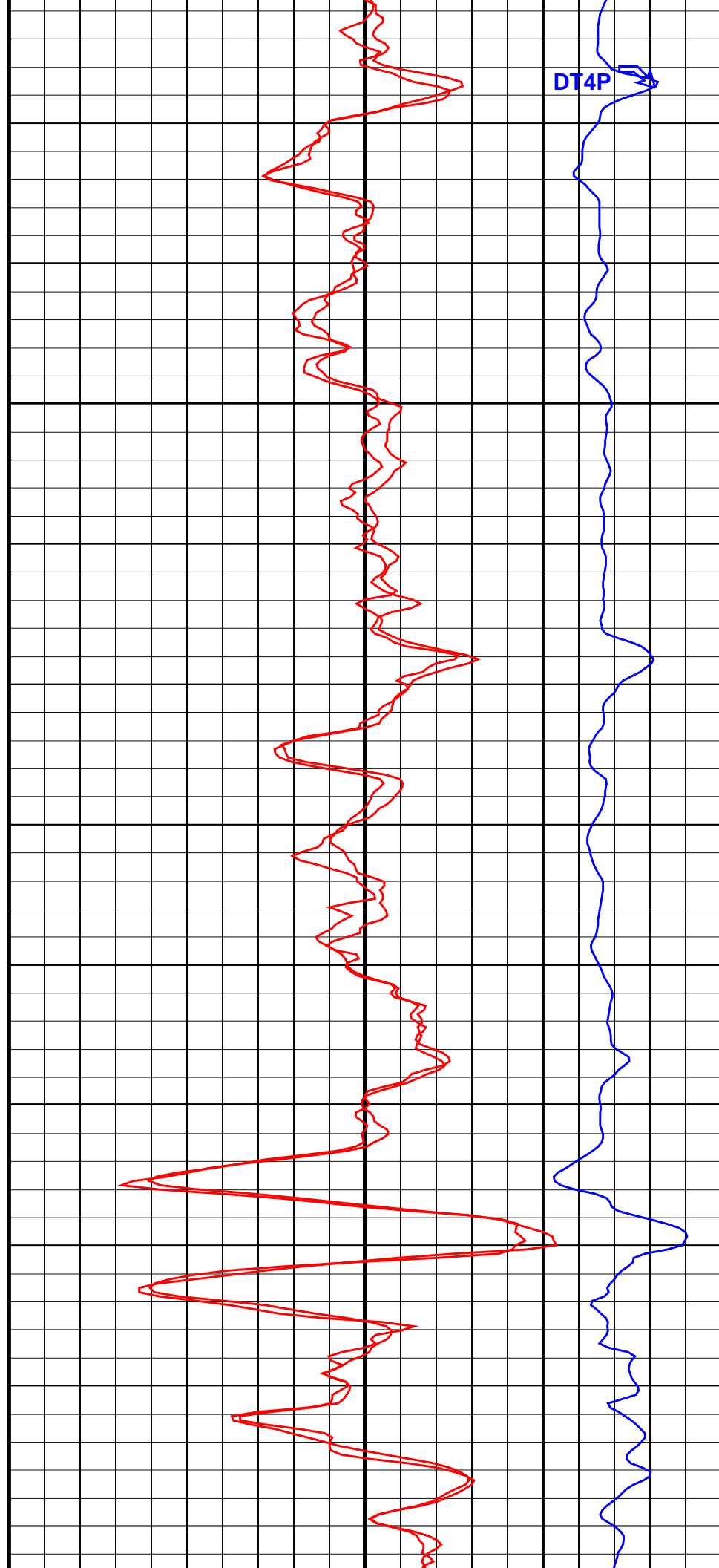
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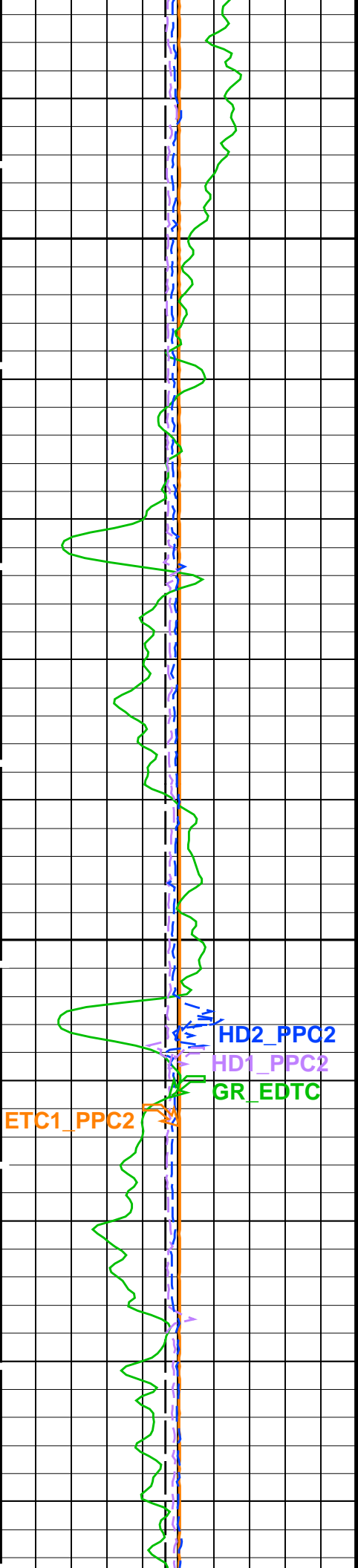




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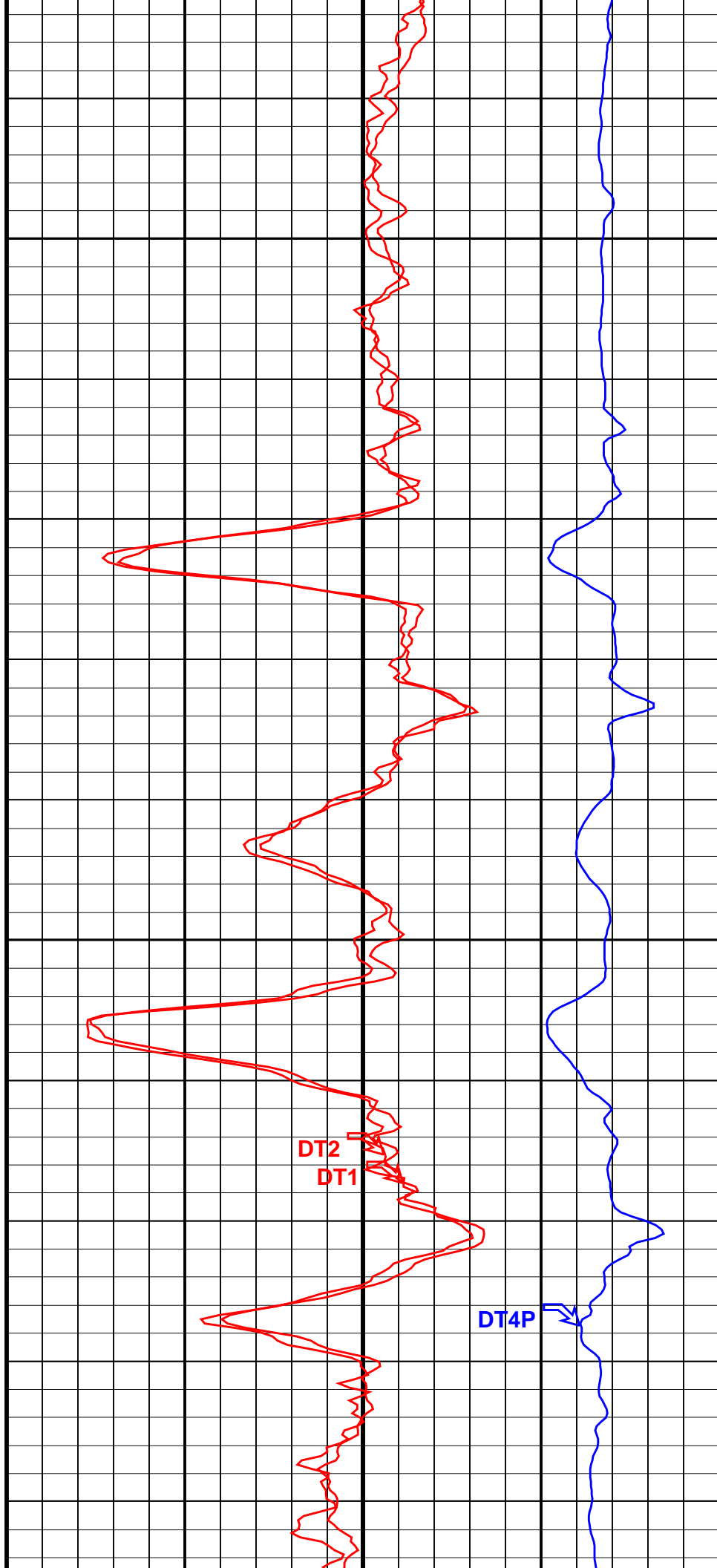
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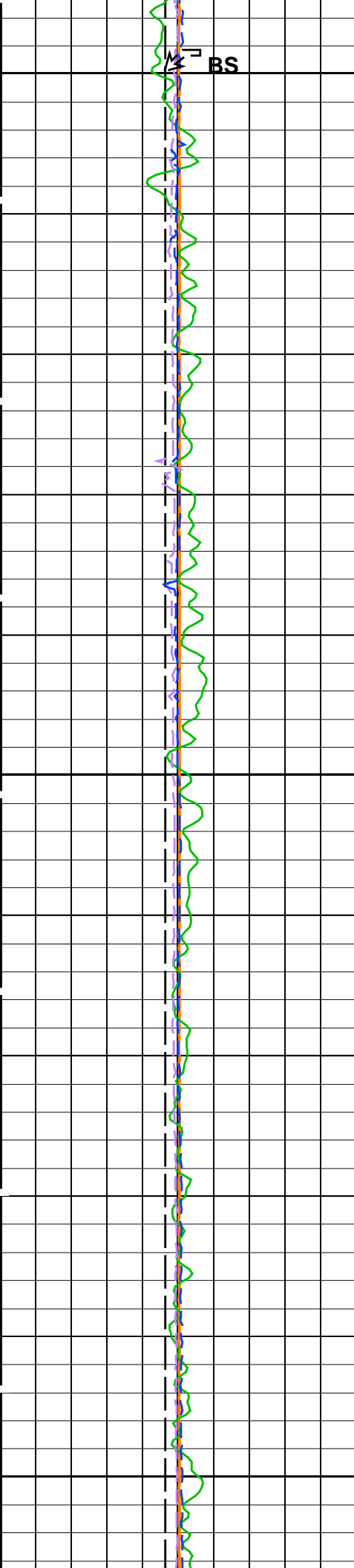
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DT2
DT1

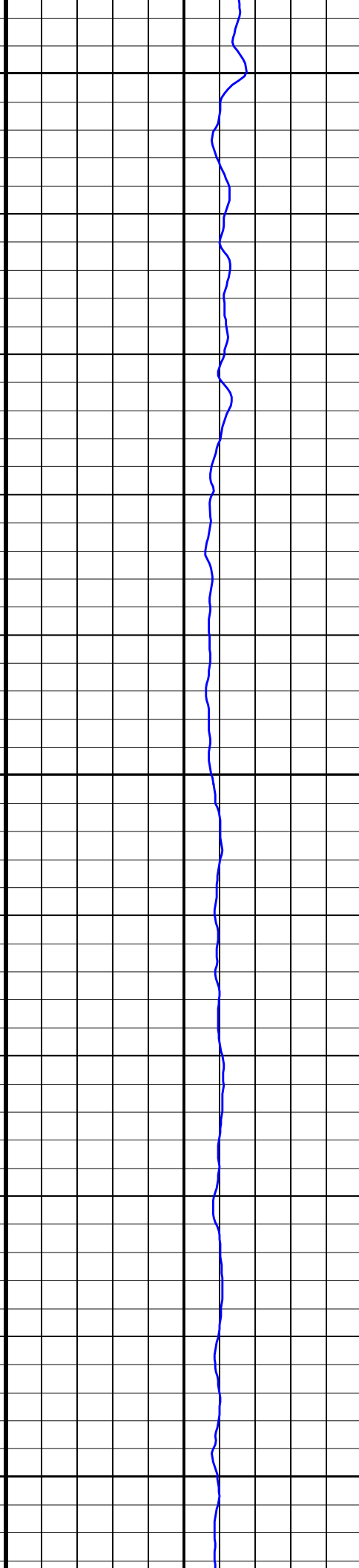
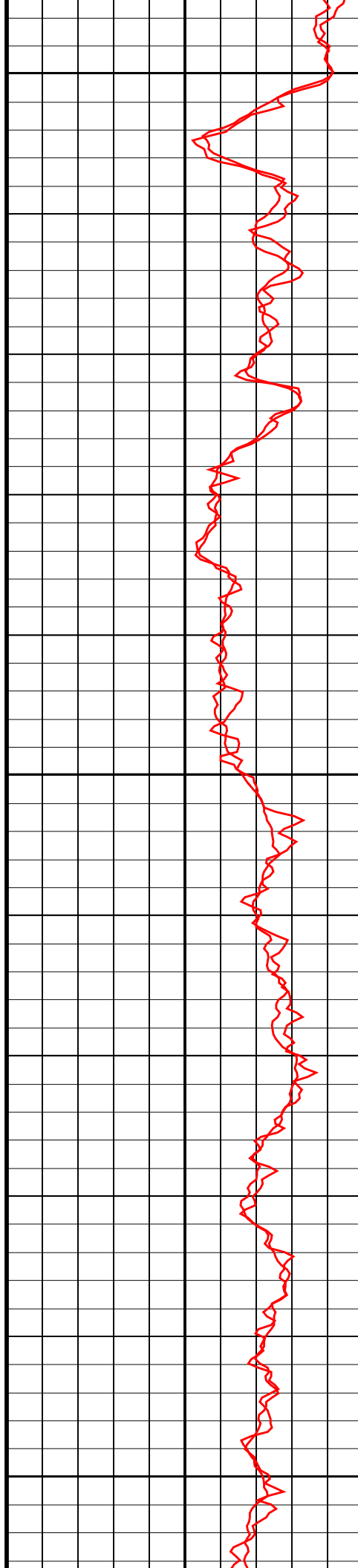
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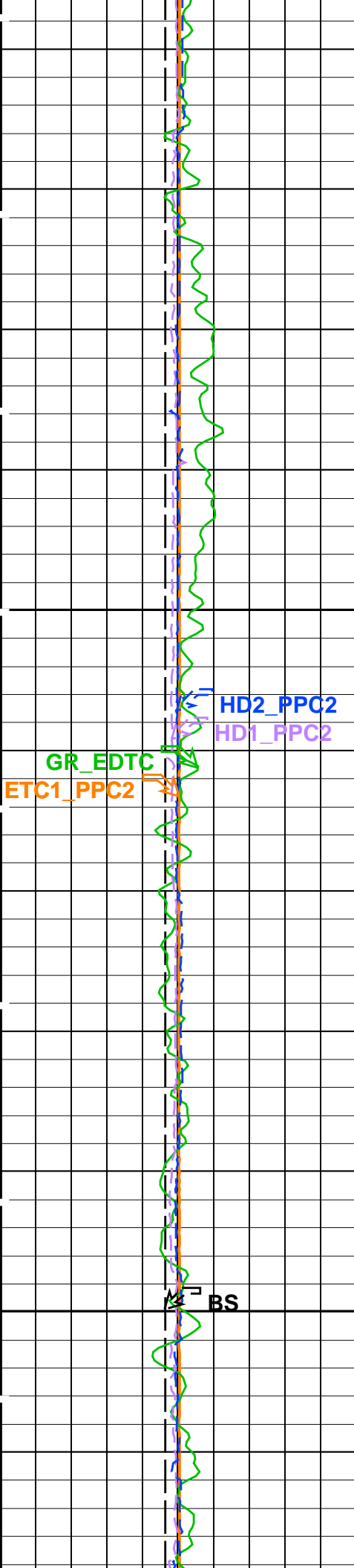


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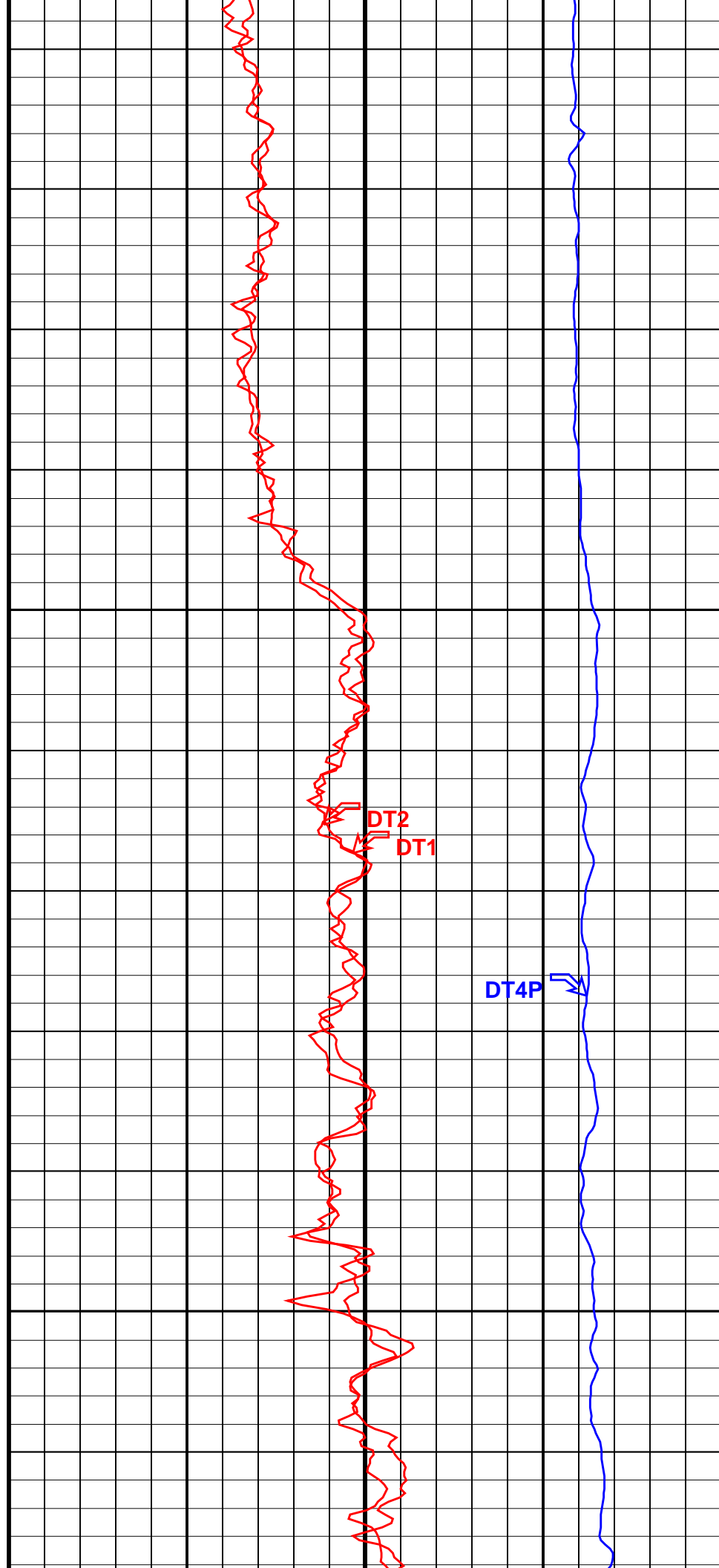
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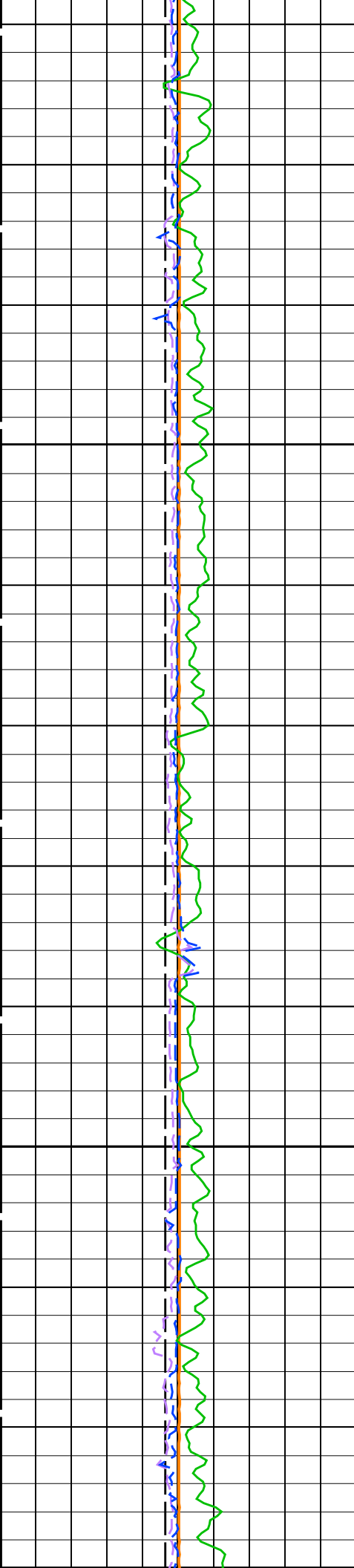




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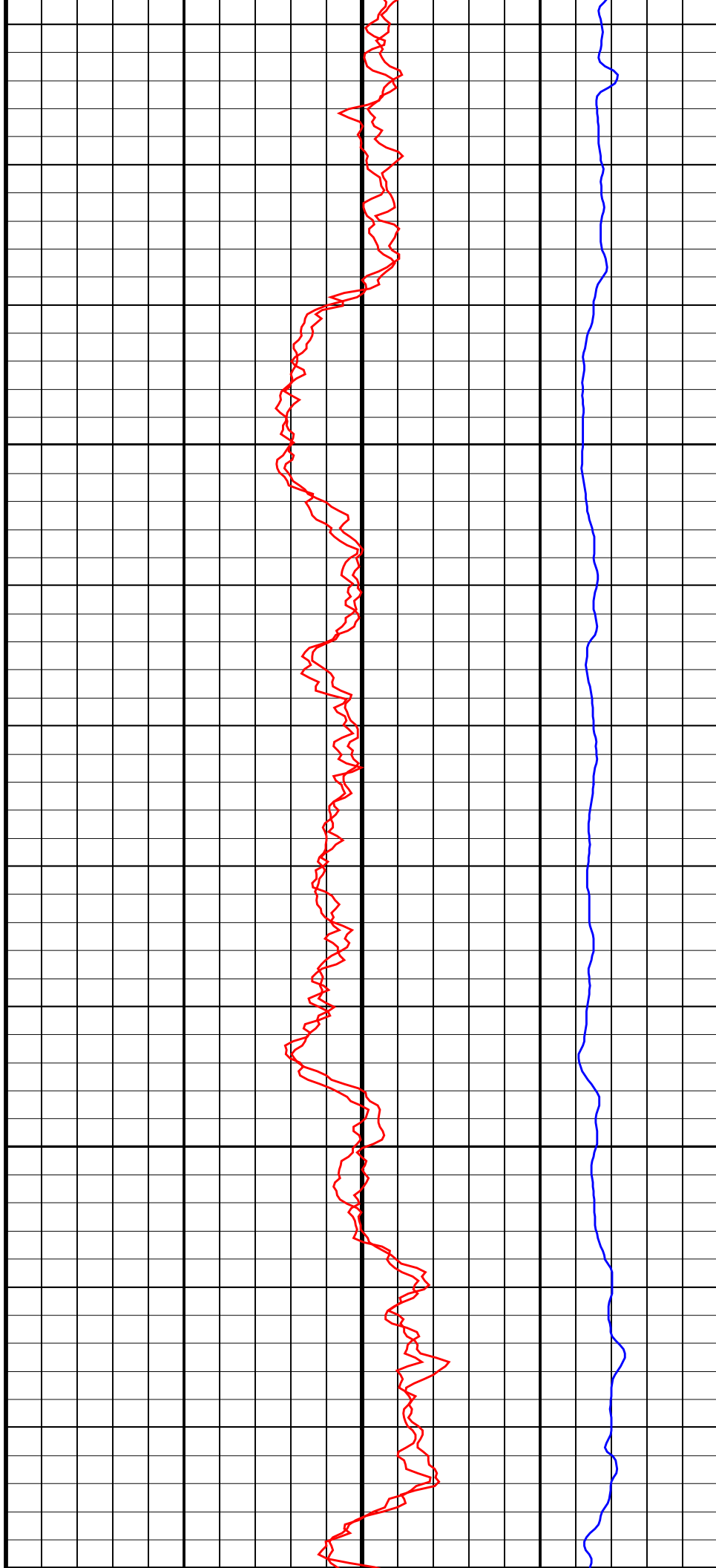
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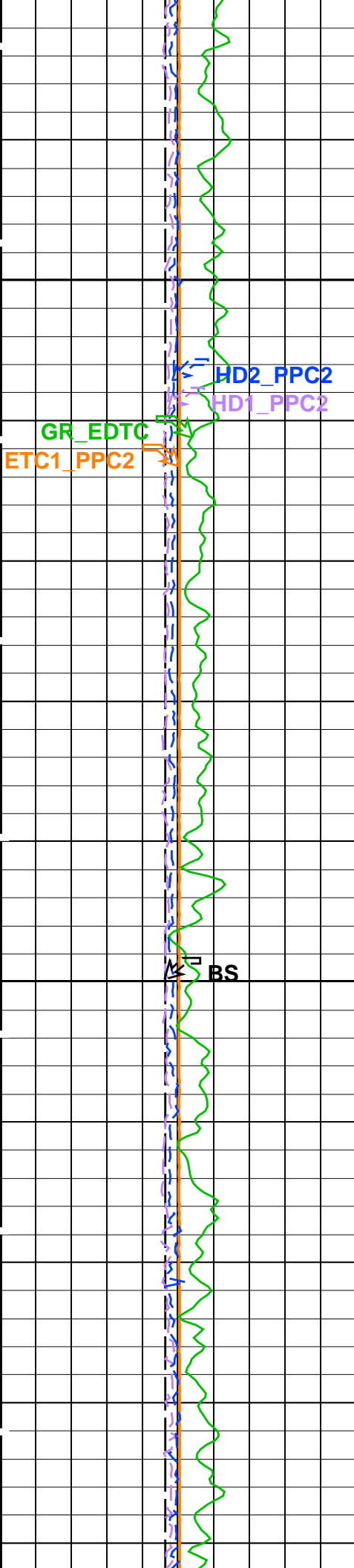




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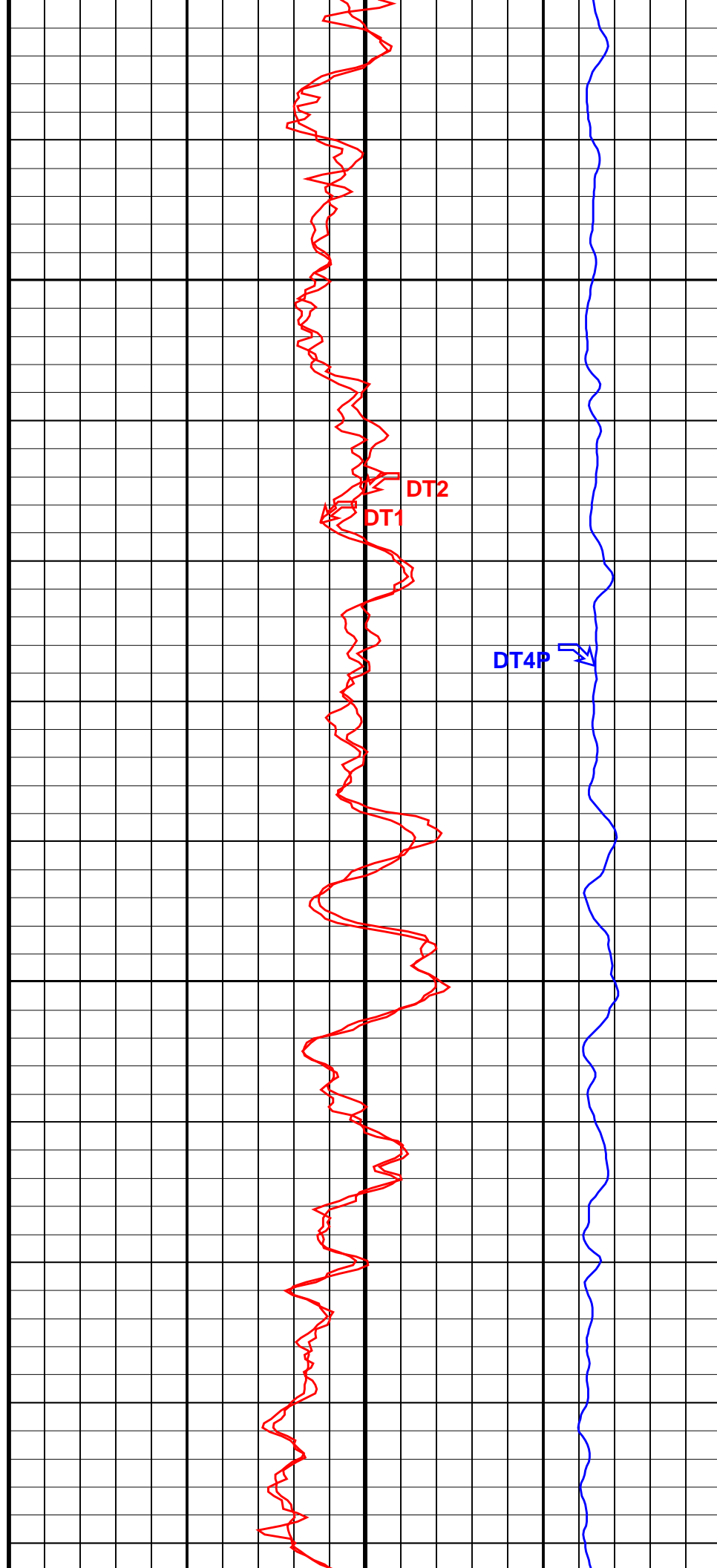
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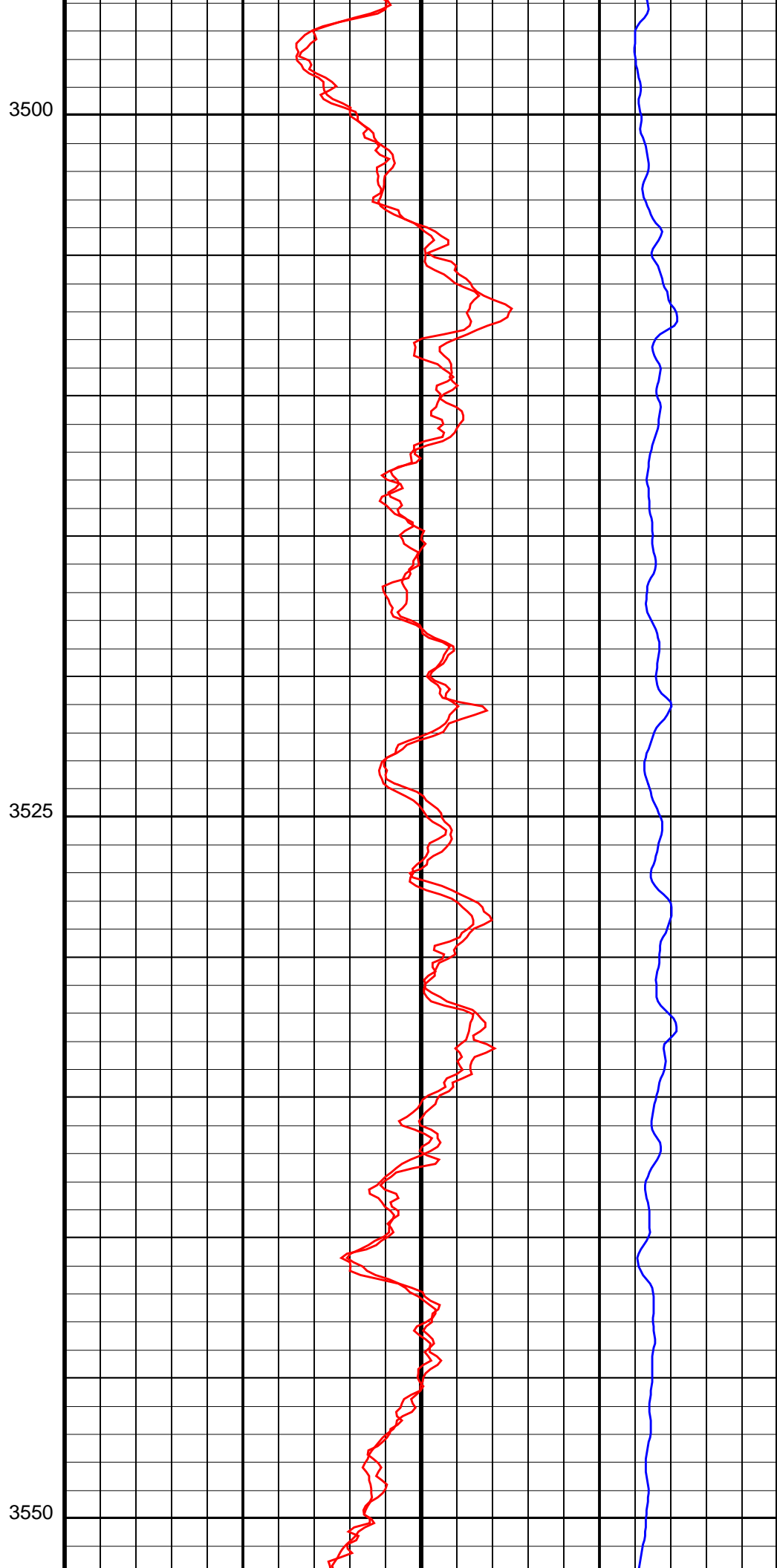
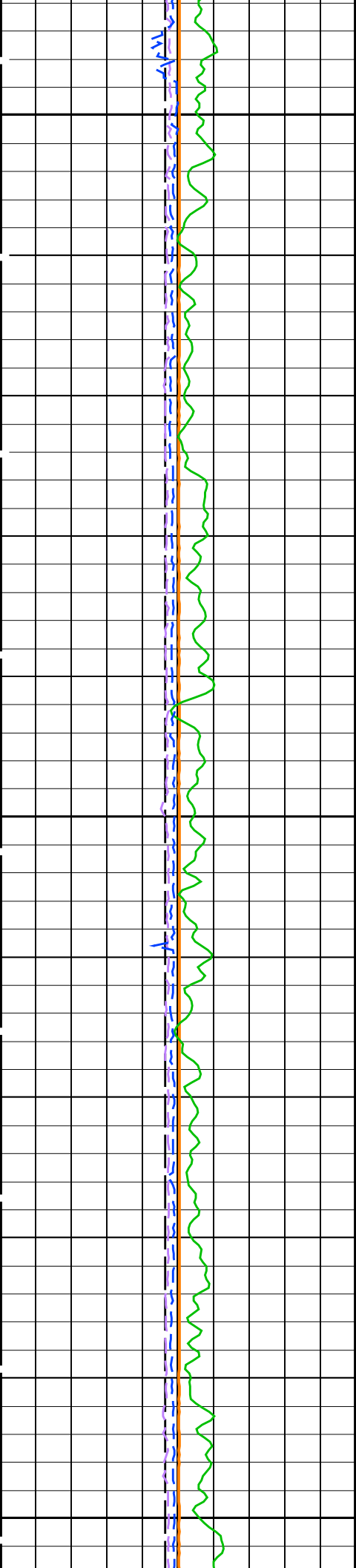
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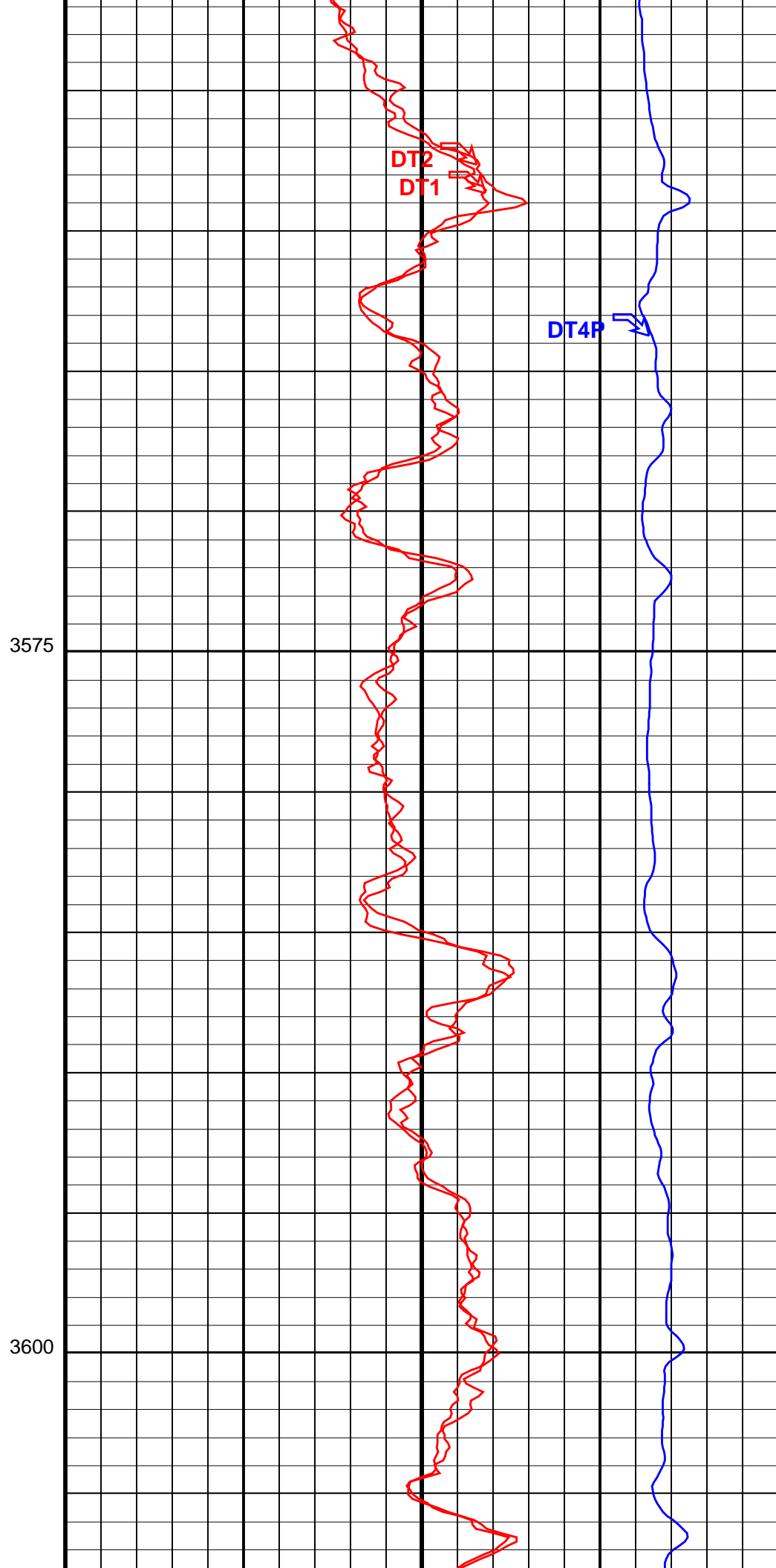
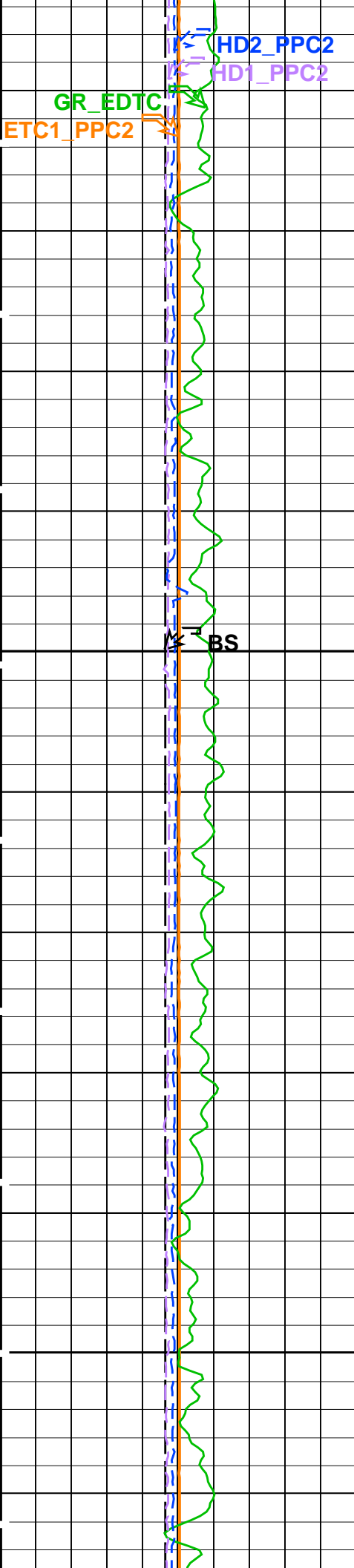


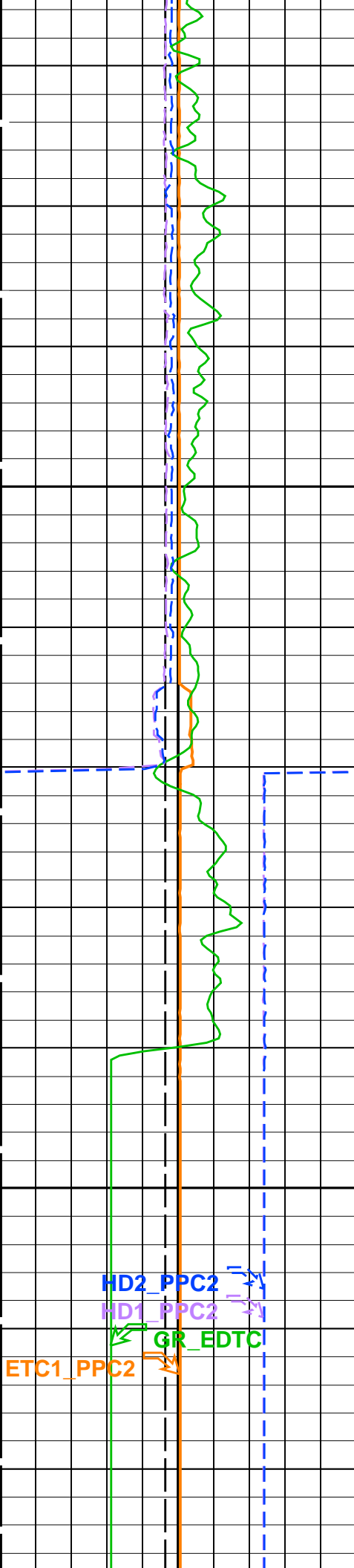
DT2

DT1

DT4P

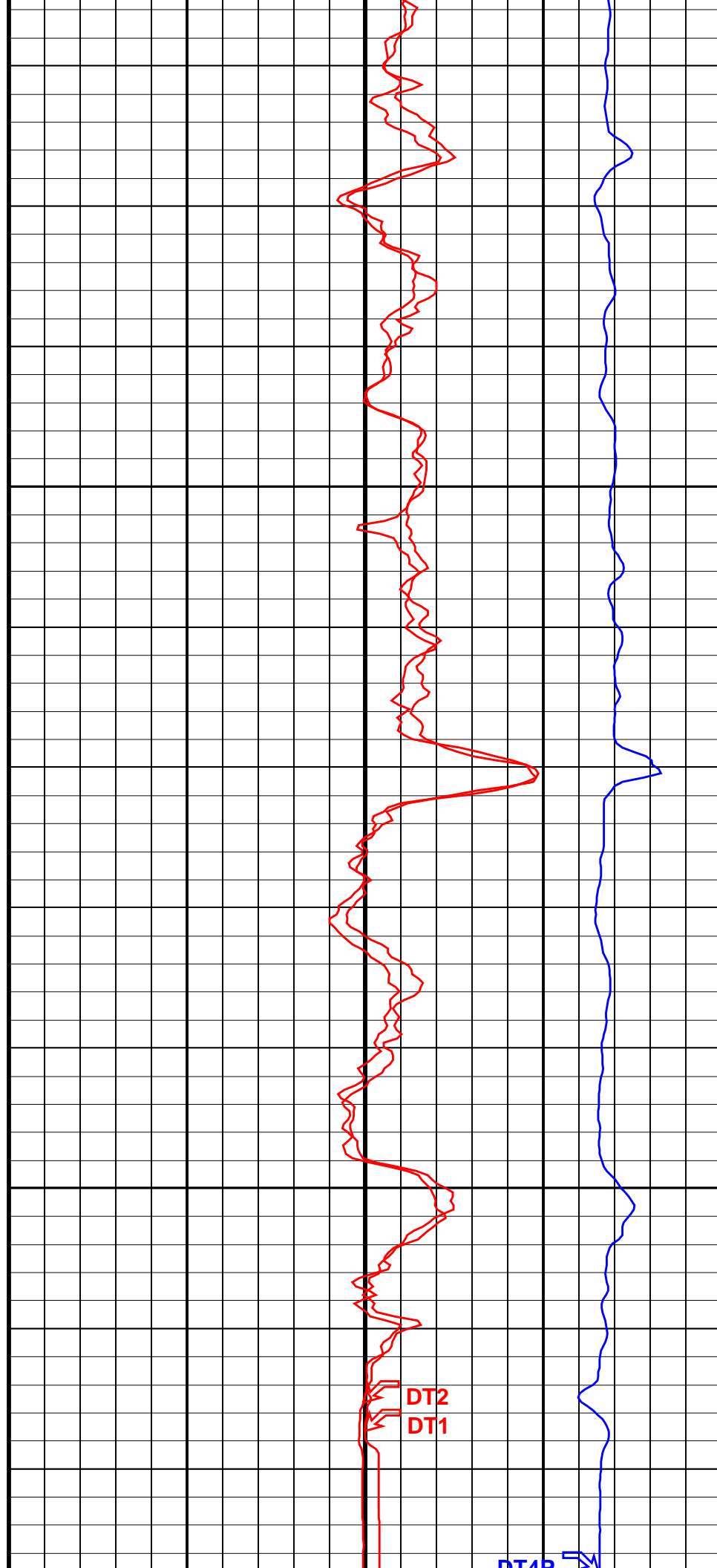


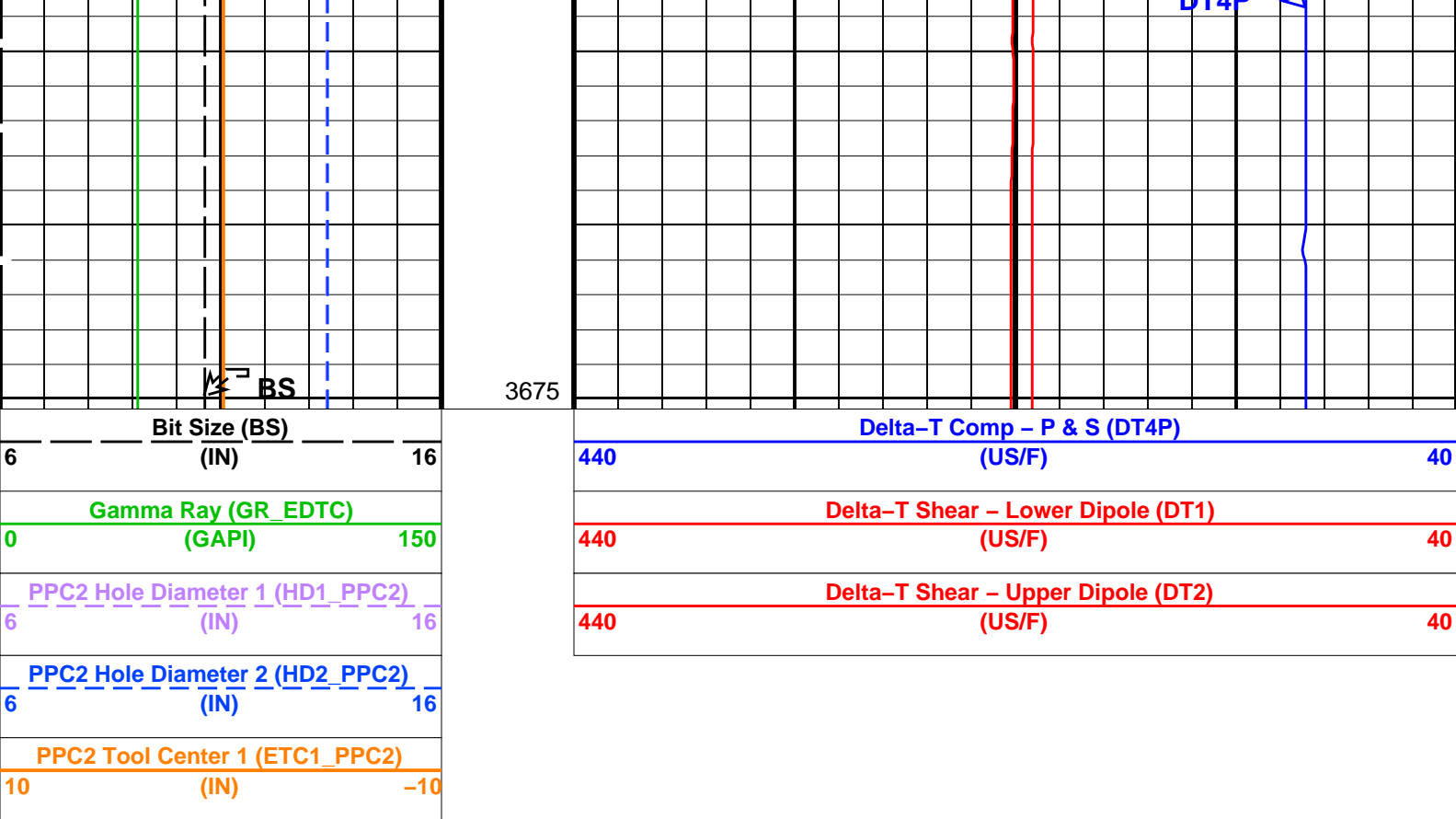




3625

3650





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
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
SAS1	STC Sonic Array Status - Lower Dipole	255
SAS2	STC Sonic Array Status - Upper Dipole	255
SFM1	STC Filter - Lower Dipole	B.3-1.5K
SFM2	STC Filter - Upper Dipole	B.3-1.5K
PPC2: Powered Positioning Device/Caliper 2		
CLBD_PPC	PPC2 Caliper Type	CAL_STD
DIP: Dip Computation	PPC Calibration data selection	ROM
DIP Tool		
FBST		
System and Miscellaneous		
BS	Bit Size	10.625 IN
DO	Depth Offset for Playback	2.5 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: DSST_P_S Vertical Scale: 1:200 Graphics File Created: 16-Sep-2012 01:59

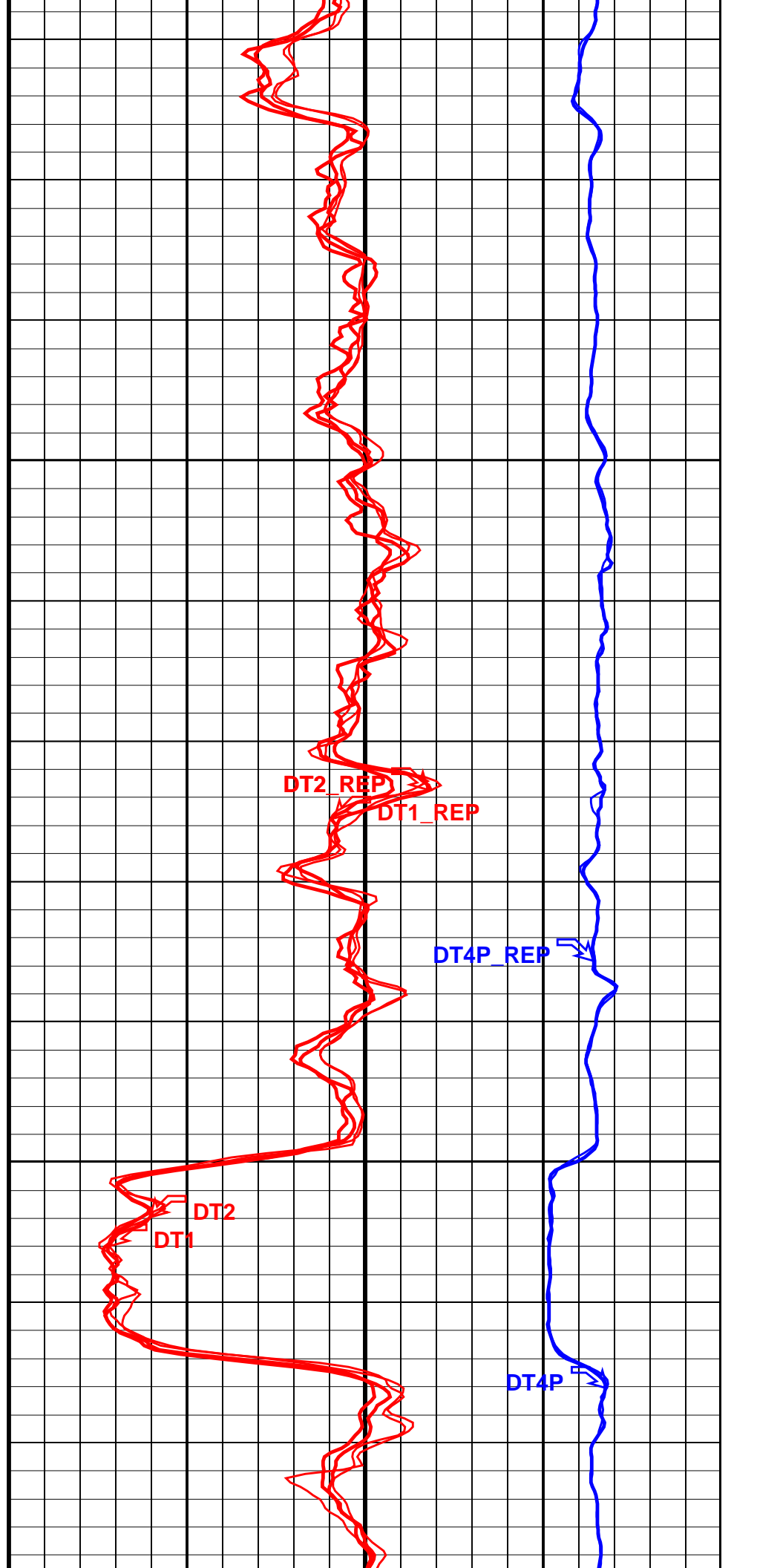
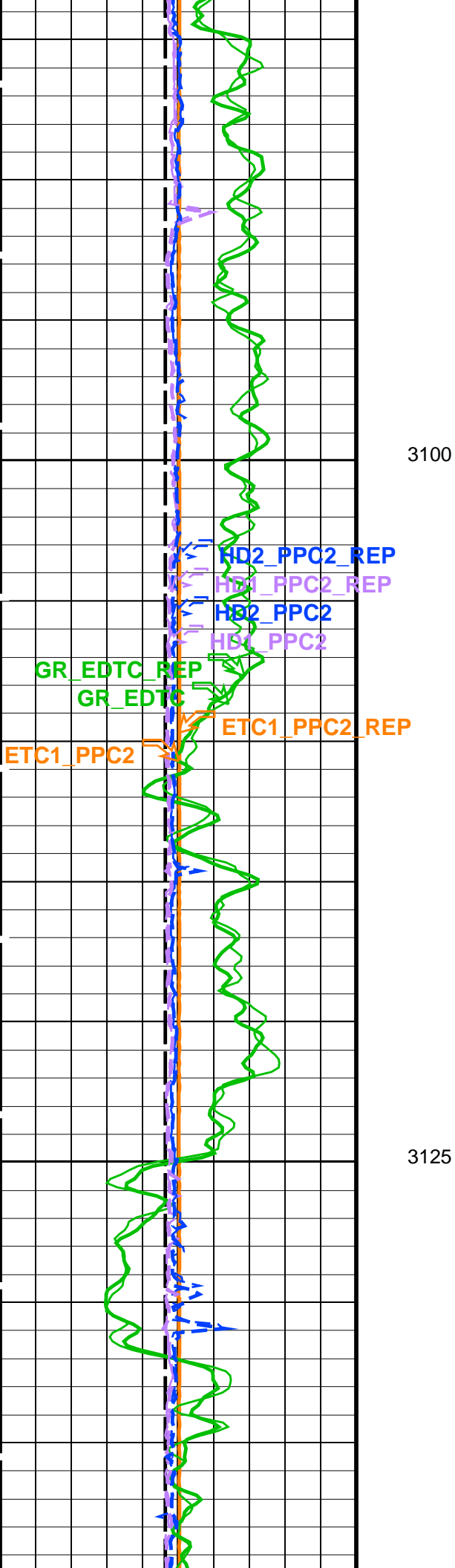
OP System Version: 19C1-222

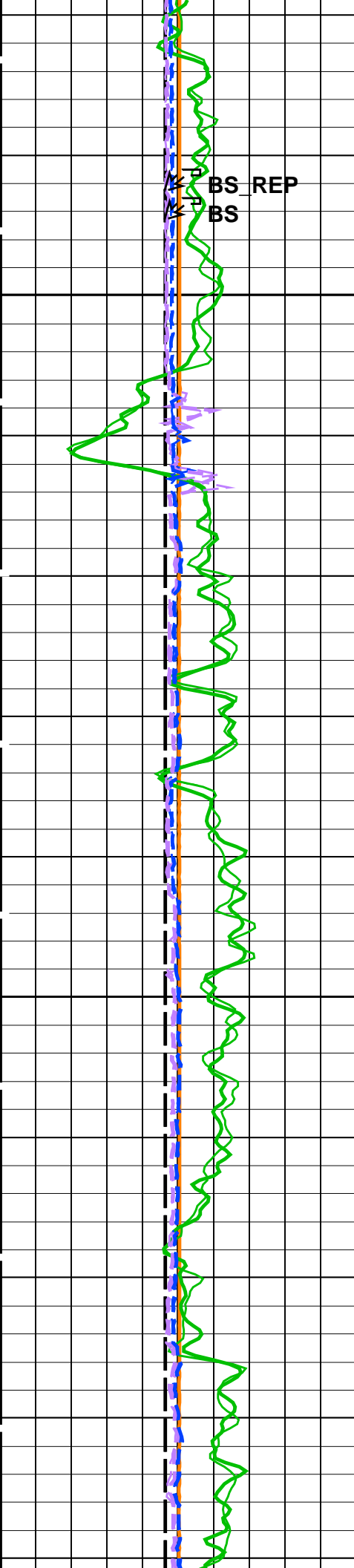
FBST-B	19C1-222	DSST-B	19C1-222
EMS-B	19C1-222	PPC2	19C1-222
EDTC-B	19C1-222	DTPC-A	19C1-222

Input DLIS Files

DEFAULT	FMI_DSI_EMS_CAL_027LUP	FN:53	PRODUCER	10-Sep-2012 20:36	3672.8 M	2446.3 M
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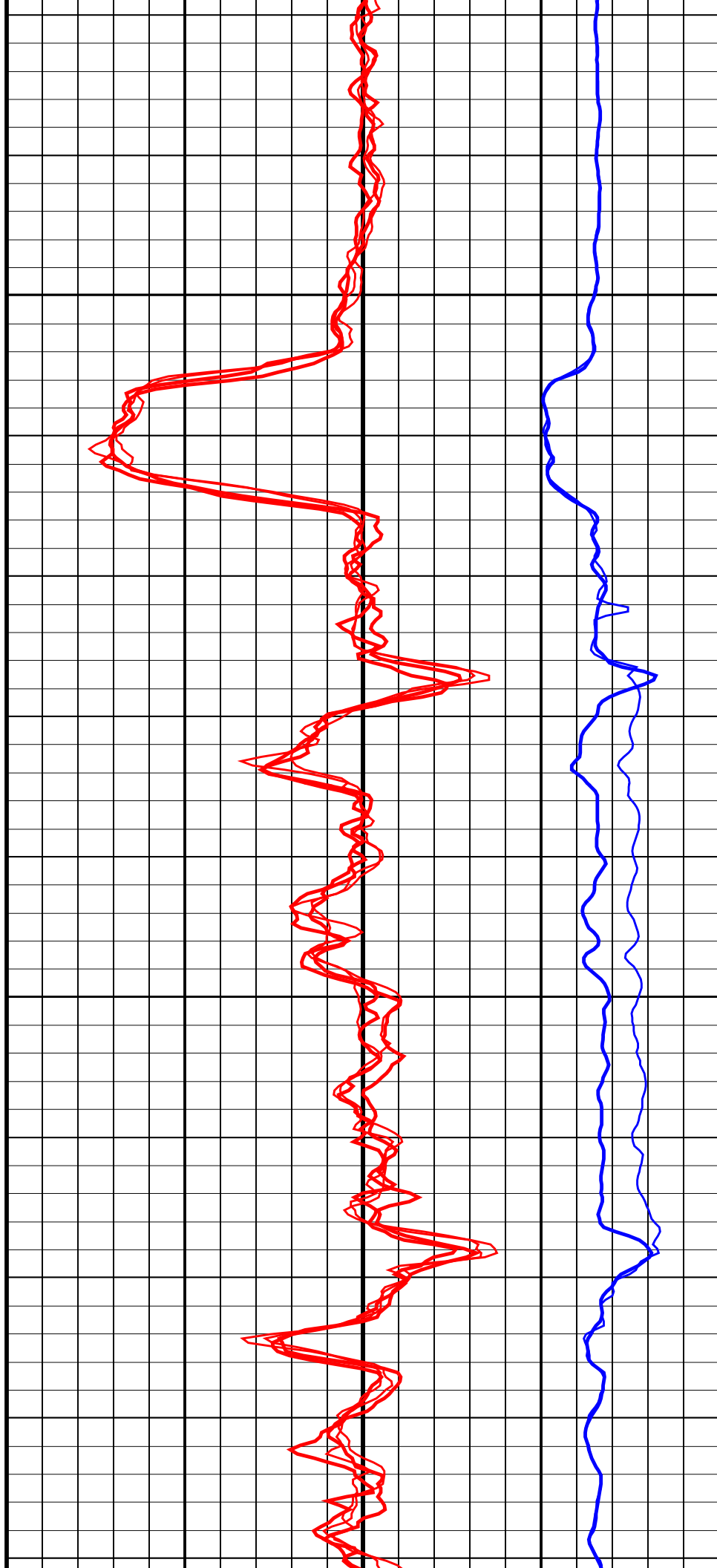
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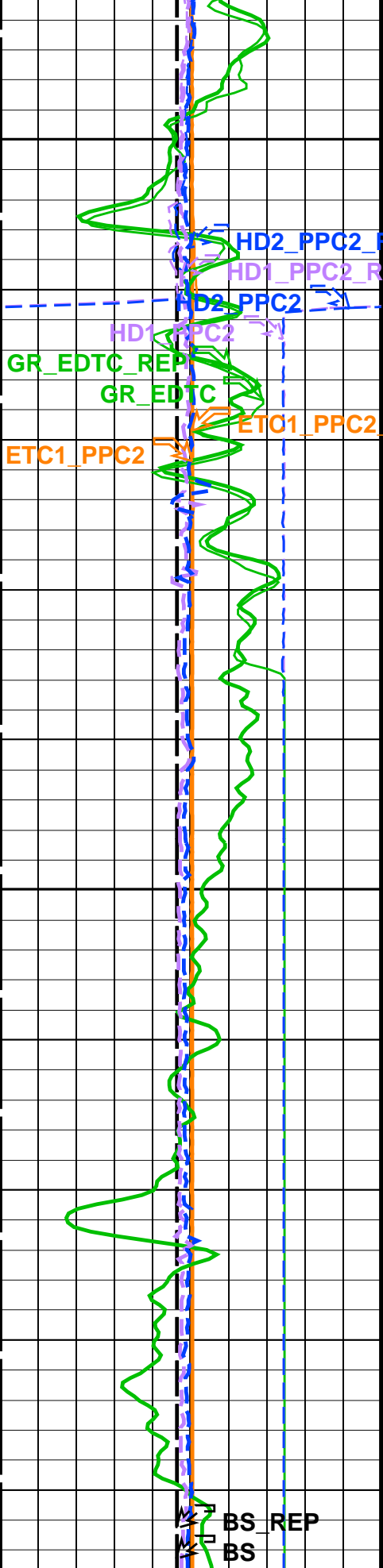




3150

3175



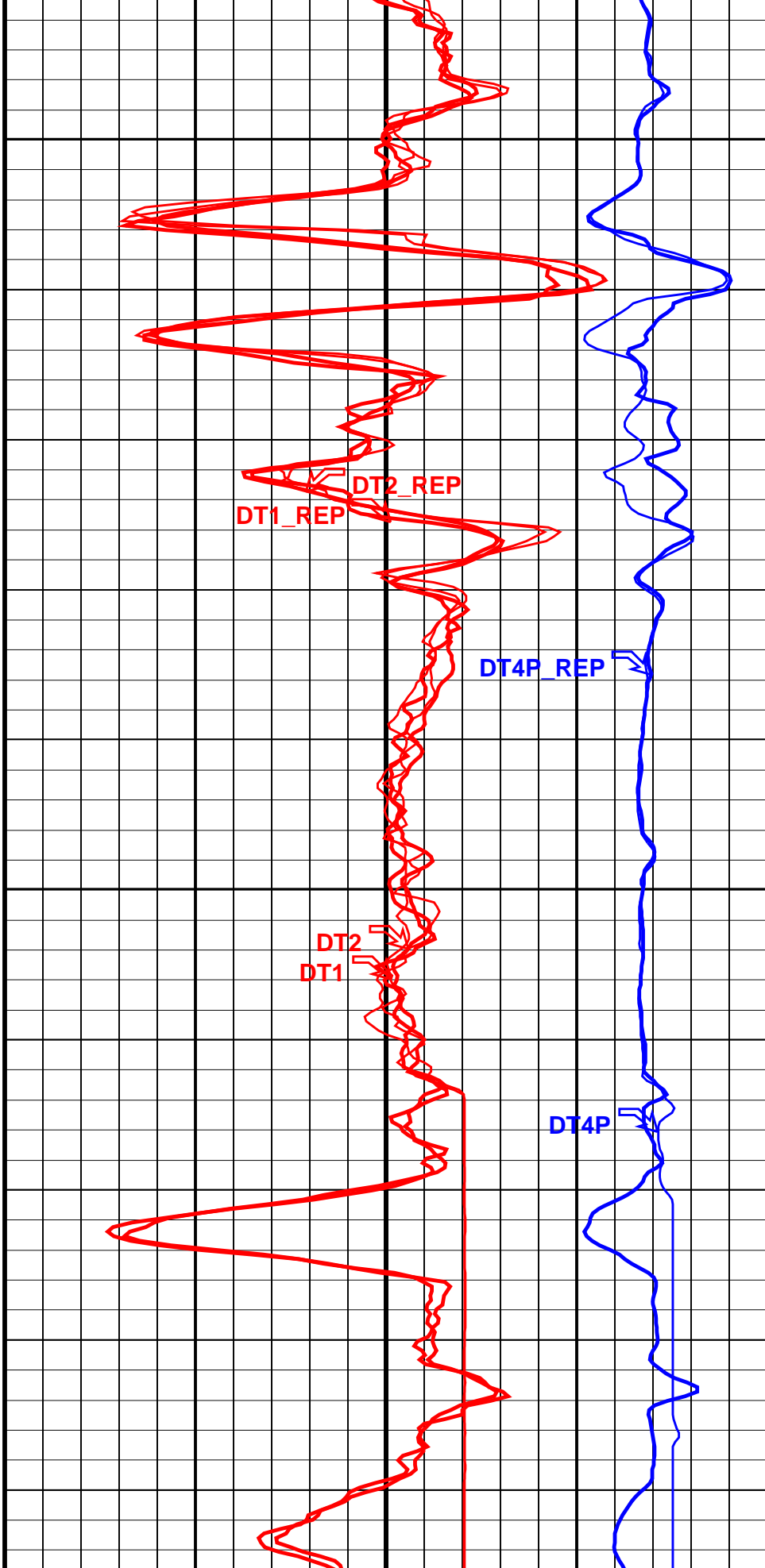


BS_REP Curve (BS_REP)
(IN)

GR_REP Curve (GR_EDTC_REP)

3200

3225



DSST_STC_DT4P_REP Curve (DT4P_REP)
(US/F)

DSST_STC_DT1_REP Curve (DT1_REP)

440

40

0	(GAPI)	150	440	(US/F)	40
ETC1_PPC2_REP Curve (ETC1_PPC2_REP)			DSST_STC_DT2_REP Curve (DT2_REP)		
10	(IN)	-10	440	(US/F)	40
HD1_PPC2_REP Curve (HD1_PPC2_REP)					
6	(IN)	16			
HD2_PPC2_REP Curve (HD2_PPC2_REP)					
6	(IN)	16			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
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
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM2	STC Filter – Upper Dipole	B.3–1.5K	
PPC2: Powered Positioning Device/Caliper 2			
	PPC2 Caliper Type	CAL_STD	
CLBD_PPC	PPC Calibration data selection	ROM	
DIP: Dip Computation			
	DIP Tool	FBST	
System and Miscellaneous			
BS	Bit Size	10.625	IN
DO	Depth Offset for Playback	1.6	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_REP Vertical Scale: 1:200 Graphics File Created: 16-Sep-2012 02:07

OP System Version: 19C1-222

FBST-B	19C1-222	DSST-B	19C1-222
EMS-B	19C1-222	PPC2	19C1-222
EDTC-B	19C1-222	DTPC-A	19C1-222

Input DLIS Files

	FMI_DSI_EMS_CAL_024LUP	FN:47	10-Sep-2012 19:13	3246.1 M	3072.3 M
DEFAULT	FMI_DSI_EMS_CAL_189PUP	FN:491	PRODUCER 16-Sep-2012 01:59	3675.3 M	2448.8 M

Output DLIS Files

DEFAULT	FMI_DSI_EMS_CAL_190PUP	FN:493	PRODUCER	16-Sep-2012 02:07
CLIENT	FMI_DSI_EMS_CAL_190PUC	FN:494	CUSTOMER	16-Sep-2012 02:07

Schlumberger

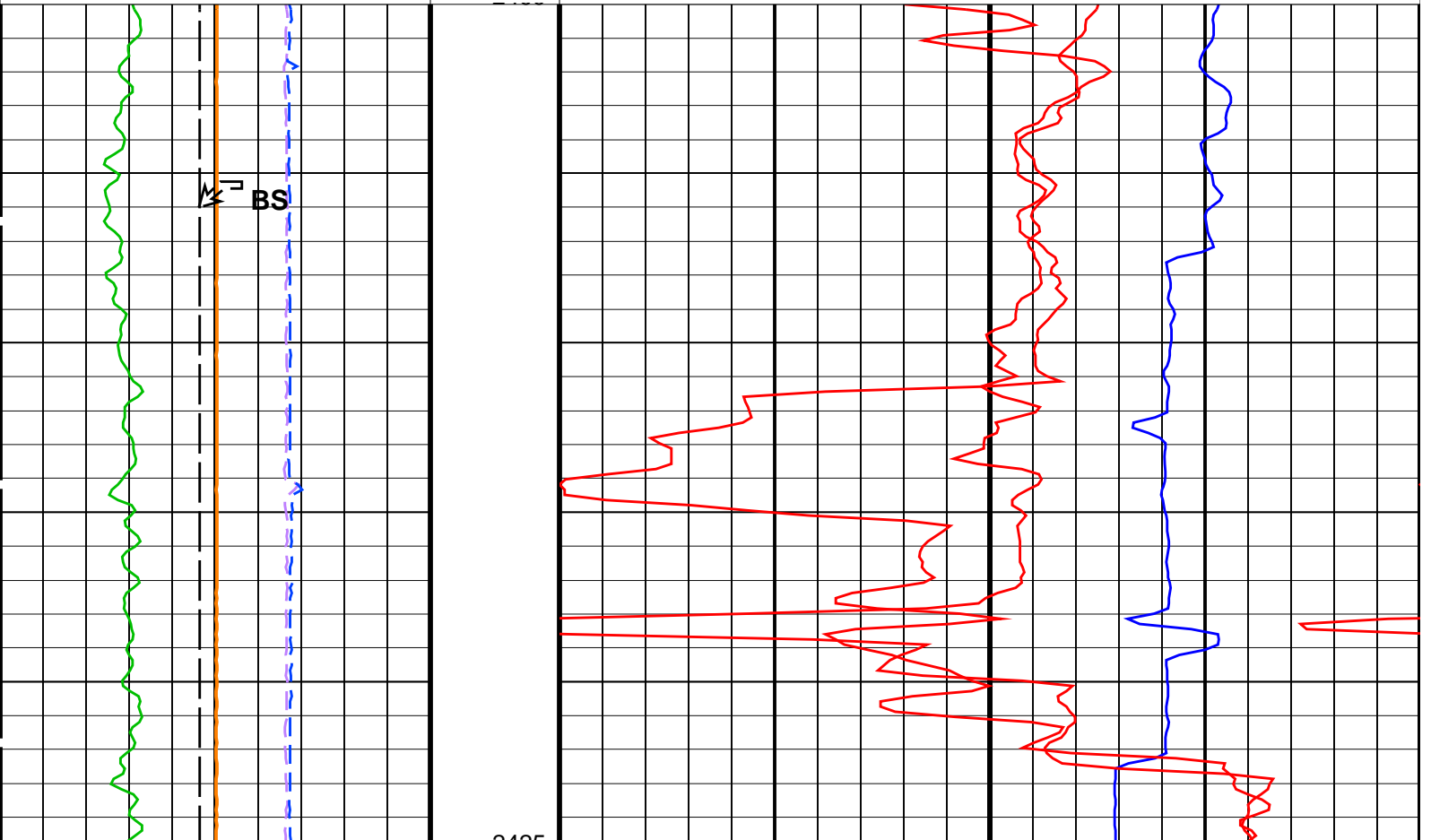
Casing Section
1:200

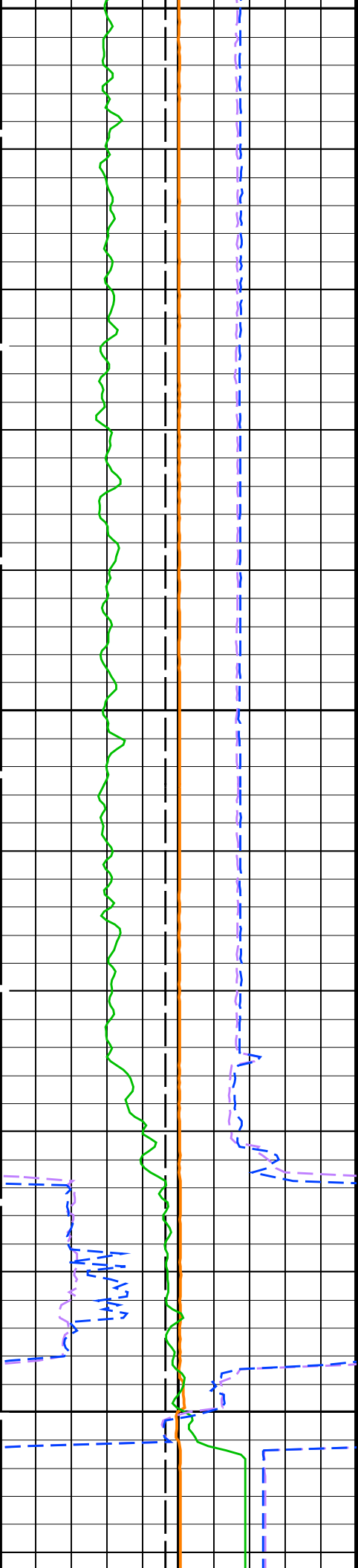
Input DLIS Files						
DEFAULT	FMI_DSI_EMS_CAL_033LUP	FN:67	PRODUCER	10-Sep-2012 23:59	2504.8 M	2284.3 M
Output DLIS Files						
DEFAULT	FMI_DSI_EMS_CAL_192PUP	FN:497	PRODUCER	16-Sep-2012 02:12	2506.4 M	2400.0 M
CLIENT	FMI_DSI_EMS_CAL_192PUC	FN:498	CUSTOMER	16-Sep-2012 02:12	2506.4 M	2400.0 M

OP System Version: 19C1-222						
FBST-B	19C1-222	DSST-B	19C1-222			
EMS-B	19C1-222	PPC2	19C1-222			
EDTC-B	19C1-222	DTPC-A	19C1-222			

PIP SUMMARY	
<input type="checkbox"/> Time Mark Every 60 S	

PPC2 Tool Center 1 (ETC1_PPC2)	
10 (IN) -10	
PPC2 Hole Diameter 2 (HD2_PPC2)	
6 (IN) 16	
PPC2 Hole Diameter 1 (HD1_PPC2)	
6 (IN) 16	
Gamma Ray (GR_EDTC)	
0 (GAPI) 150	
Bit Size (BS)	
6 (IN) 16	
Delta-T Shear - Upper Dipole (DT2)	
440 (US/F) 40	
Delta-T Shear - Lower Dipole (DT1)	
440 (US/F) 40	
Delta-T Comp - P & S (DT4P)	
440 (US/F) 40	

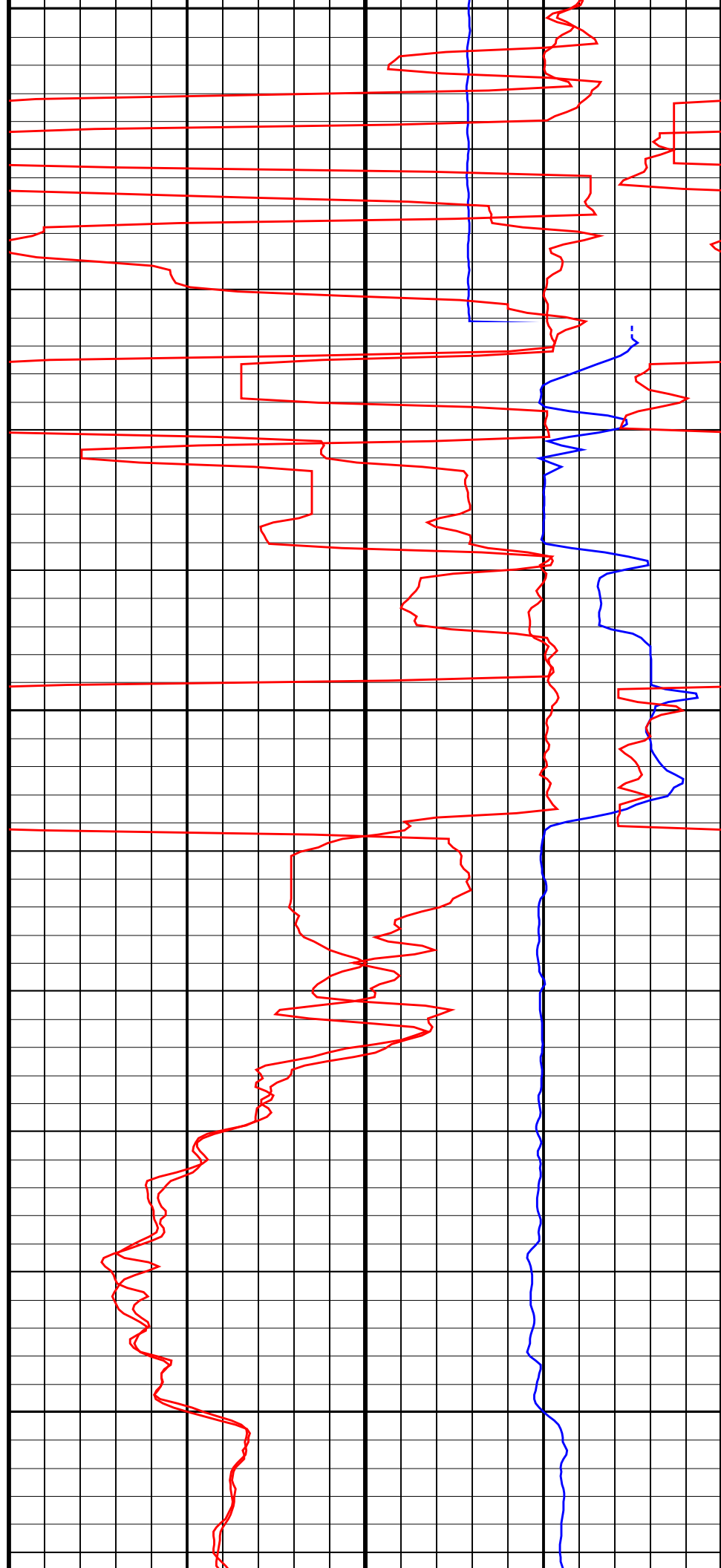


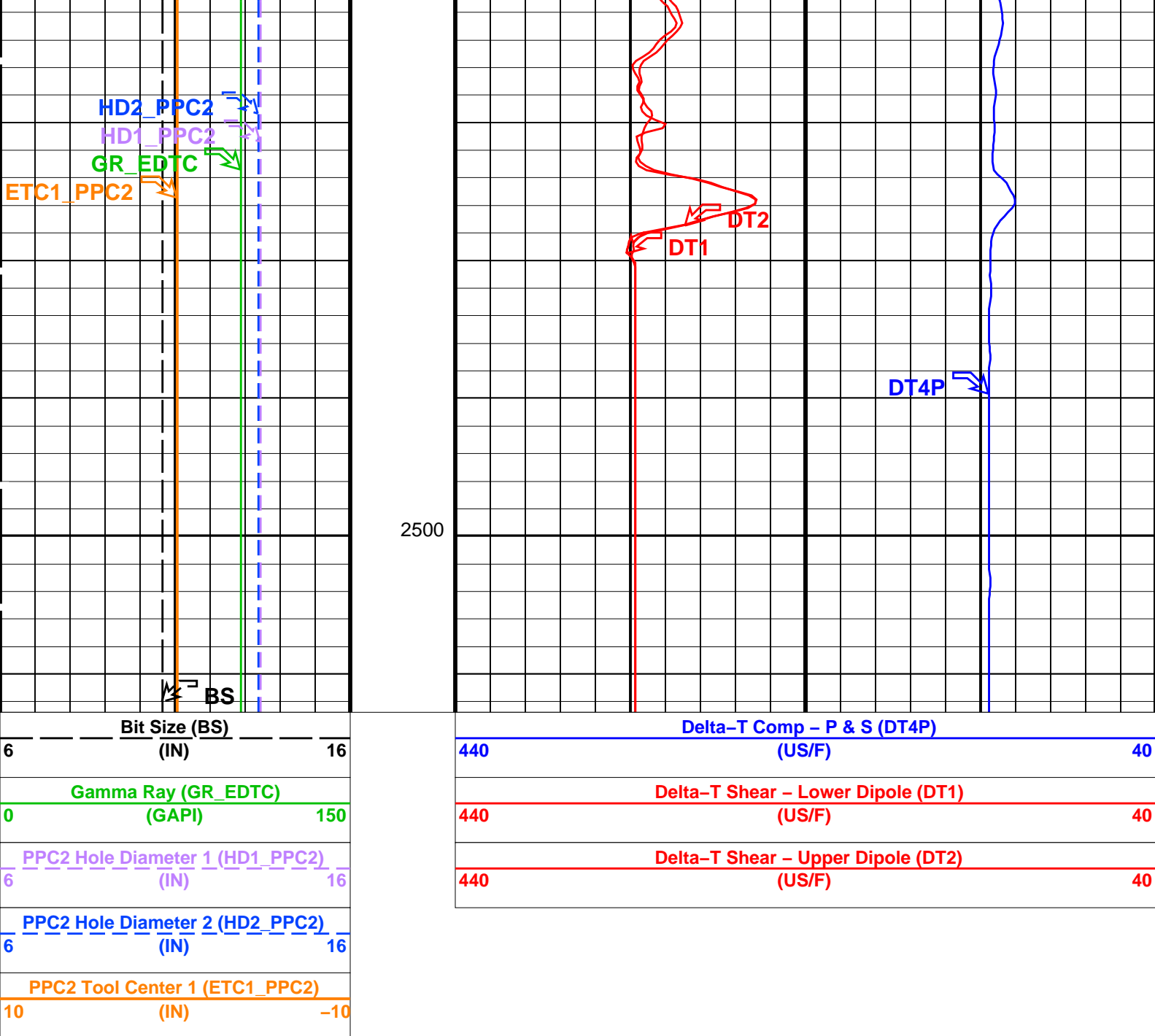


2425

2450

2475






PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
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
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SFM1	STC Filter – Lower Dipole	B1-3K	
SFM2	STC Filter – Upper Dipole	B1-3K	
PPC2: Powered Positioning Device/Caliper 2			
	PPC2 Caliper Type	CAL_STD	
CLBD_PPC	PPC Calibration data selection	ROM	
DIP: Dip Computation			
	DIP Tool	FBST	
System and Miscellaneous			

BS	Bit Size	10.625	IN
DO	Depth Offset for Playback	1.6	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	
Format: DSST_P_S		Vertical Scale: 1:200	Graphics File Created: 16-Sep-2012 02:12
OP System Version: 19C1-222			
FBST-B	19C1-222	DSST-B	19C1-222
EMS-B	19C1-222	PPC2	19C1-222
EDTC-B	19C1-222	DTPC-A	19C1-222
Input DLIS Files			
DEFAULT	FMI_DSI_EMS_CAL_033LUP	FN:67 PRODUCER	10-Sep-2012 23:59 2504.8 M 2284.3 M
Output DLIS Files			
DEFAULT	FMI_DSI_EMS_CAL_192PUP	FN:497 PRODUCER	16-Sep-2012 02:12
CLIENT	FMI_DSI_EMS_CAL_192PUC	FN:498 CUSTOMER	16-Sep-2012 02:12
<div>  <div>Calibration Report</div> </div> <div>MAXIS Field Log</div>			

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-Bore Scanner – B Wellsite Calibration – Caliper Calibration							
Before: 4-Sep-2012 17:15							
Caliper 1 Small Jig	8.000	N/A	7.625	N/A	N/A	N/A	IN
Caliper 2 Small Jig	16.00	N/A	15.27	N/A	N/A	N/A	IN
Caliper 1 Large Jig	16.00	N/A	15.46	N/A	N/A	N/A	IN
Caliper 2 Large Jig	8.000	N/A	7.511	N/A	N/A	N/A	IN
Full-Bore Scanner – B Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 10-Sep-2012 23:53							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	4	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	852	N/A	N/A	N/A	
Full-Bore Scanner – B Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 10-Sep-2012 23:53							
TEMPERATURE REFERENCE :	N/A	N/A	22	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	97	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	2	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	287	N/A	N/A	N/A	
Environment Measurement Sonde Wellsite Calibration – EMS Caliper Calibration							
Before: 4-Sep-2012 16:19 After: 4-Sep-2012 16:19							
Radius 1 Short Radius	4.000	N/A	3.611	3.611	0	0.2000	IN
Radius 1 Long Radius	8.000	N/A	7.766	7.766	0	0.2000	IN
Radius 2 Short Radius	4.000	N/A	3.512	3.512	0	0.2000	IN
Radius 2 Long Radius	8.000	N/A	7.753	7.753	0	0.2000	IN
Radius 3 Short Radius	4.000	N/A	3.335	3.335	0	0.2000	IN
Radius 3 Long Radius	8.000	N/A	7.593	7.593	0	0.2000	IN
Radius 4 Short Radius	4.000	N/A	3.455	3.455	0	0.2000	IN
Radius 4 Long Radius	8.000	N/A	7.639	7.639	0	0.2000	IN
Radius 5 Short Radius	4.000	N/A	3.468	3.468	0	0.2000	IN

Radius 5 Long Radius	8.000	N/A	7.692	7.692	0	0.2000	IN
Radius 6 Short Radius	4.000	N/A	3.449	3.449	0	0.2000	IN
Radius 6 Long Radius	8.000	N/A	7.638	7.638	0	0.2000	IN

Powered Positioning Device/Caliper 2 Wellsite Calibration – PPC2 Caliper Calibration

Before: 8-Sep-2012 14:37 After: 8-Sep-2012 14:37

PPC2 Radius 1 Raw Small Radius	3.500	N/A	4.420	4.420	0	0.5000	IN
PPC2 Radius 1 Raw Large Radius	8.000	N/A	8.543	8.543	0	0.5000	IN
PPC2 Radius 2 Raw Small Radius	3.500	N/A	3.554	3.554	0	0.5000	IN
PPC2 Radius 2 Raw Large Radius	8.000	N/A	7.836	7.836	0	0.5000	IN
PPC2 Radius 3 Raw Small Radius	3.500	N/A	4.186	4.186	0	0.5000	IN
PPC2 Radius 3 Raw Large Radius	8.000	N/A	8.412	8.412	0	0.5000	IN
PPC2 Radius 4 Raw Small Radius	3.500	N/A	3.295	3.295	0	0.5000	IN
PPC2 Radius 4 Raw Large Radius	8.000	N/A	7.653	7.653	0	0.5000	IN

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 10-Sep-2012 1:29

EDTC Z-Axis Acceleration	9.810	N/A	9.786	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 10-Sep-2012 1:29 After: 10-Sep-2012 14:39

Gamma Ray (Jig – Bkg)	163.5	N/A	163.5	161.6	-1.927	14.87	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	163.1	-1.944	15.00	GAPI

Full-Bore Scanner – B / Equipment Identification

Primary Equipment:





FullBore Scanner Sonde	FBSS – B	911
FullBore Scanner Sonde Upper part	FBSH – A	911
FullBore Scanner Sonde Cartridge	FBSC – B	977
GPIT Cartridge – C	GPIC – C	1843
Insulating Sub	AH – 185	831
Flex Joint	AH – 184	782
FullBore Scanner Control Cartridge	FBCC – A	998

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – MRA	4827
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Full-Bore Scanner – B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.625	Before		15.27
	6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)			13.60 (Minimum) 16.00 (Nominal) 18.40 (Maximum)	
Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before		15.46	Before		7.511
	13.60 (Minimum) 16.00 (Nominal) 18.40 (Maximum)			6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)	

Before: 4-Sep-2012 17:15

Environment Measurement Sonde / Equipment Identification

Primary Equipment:





EMS Mechanical	EMM – A	8078
EMS Cartridge	EMC – B	8086
EMS Adaptor	EMA – B	8002
Resistivity Meter	RES –	8002

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – KH	8706
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Environment Measurement Sonde Wellsite Calibration

EMS Caliper Calibration

Phase	Radius 1 Short Radius IN	Value	Phase	Radius 1 Long Radius IN	Value
Before		3.611	Before		7.766
After		3.611	After		7.766
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	

Phase			Radius 2 Short Radius IN	Value	Phase			Radius 2 Long Radius IN	Value
Before				3.512	Before				7.753
After				3.512	After				7.753
3.000 (Minimum)			4.000 (Nominal)	5.000 (Maximum)	7.000 (Minimum)			8.000 (Nominal)	9.000 (Maximum)
Phase			Radius 3 Short Radius IN	Value	Phase			Radius 3 Long Radius IN	Value
Before				3.335	Before				7.593
After				3.335	After				7.593
3.000 (Minimum)			4.000 (Nominal)	5.000 (Maximum)	7.000 (Minimum)			8.000 (Nominal)	9.000 (Maximum)
Phase			Radius 4 Short Radius IN	Value	Phase			Radius 4 Long Radius IN	Value
Before				3.455	Before				7.639
After				3.455	After				7.639
3.000 (Minimum)			4.000 (Nominal)	5.000 (Maximum)	7.000 (Minimum)			8.000 (Nominal)	9.000 (Maximum)
Phase			Radius 5 Short Radius IN	Value	Phase			Radius 5 Long Radius IN	Value
Before				3.468	Before				7.692
After				3.468	After				7.692
3.000 (Minimum)			4.000 (Nominal)	5.000 (Maximum)	7.000 (Minimum)			8.000 (Nominal)	9.000 (Maximum)
Phase			Radius 6 Short Radius IN	Value	Phase			Radius 6 Long Radius IN	Value
Before				3.449	Before				7.638
After				3.449	After				7.638
3.000 (Minimum)			4.000 (Nominal)	5.000 (Maximum)	7.000 (Minimum)			8.000 (Nominal)	9.000 (Maximum)
Before: 4-Sep-2012 16:19					After: 4-Sep-2012 16:19				

Powered Positioning Device/Caliper 2 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper
PPC2 Caliper Standard

PPC2 – B
PPC_ –

8558
8558

Auxiliary Equipment:

Powered Positioning Device/Caliper 2 Wellsite Calibration					
PPC2 Caliper Calibration					
Phase	PPC2 Radius 1 Raw Small Radius IN	Value	Phase	PPC2 Radius 1 Raw Large Radius IN	Value
Before		4.420	Before		8.543
After		4.420	After		8.543
1.200 (Minimum)		3.500 (Nominal)	6.100 (Minimum)		8.000 (Nominal)
		5.600 (Maximum)	9.700 (Maximum)		
Phase	PPC2 Radius 2 Raw Small Radius IN	Value	Phase	PPC2 Radius 2 Raw Large Radius IN	Value
Before		3.554	Before		7.836
After		3.554	After		7.836
1.200 (Minimum)		3.500 (Nominal)	6.100 (Minimum)		8.000 (Nominal)
		5.600 (Maximum)	9.700 (Maximum)		
Phase	PPC2 Radius 3 Raw Small Radius IN	Value	Phase	PPC2 Radius 3 Raw Large Radius IN	Value
Before		4.186	Before		8.412
After		4.186	After		8.412
1.200 (Minimum)		3.500 (Nominal)	6.100 (Minimum)		8.000 (Nominal)
		5.600 (Maximum)	9.700 (Maximum)		
Phase	PPC2 Radius 4 Raw Small Radius IN	Value	Phase	PPC2 Radius 4 Raw Large Radius IN	Value
Before		3.295	Before		7.653
After		3.295	After		7.653
1.200 (Minimum)		3.500 (Nominal)	6.100 (Minimum)		8.000 (Nominal)
		5.600 (Maximum)	9.700 (Maximum)		
Before: 8-Sep-2012 14:37			After: 8-Sep-2012 14:37		

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG – A/B 77415
EDTC – B 8479


Auxiliary Equipment:

EDTC Housing

EDTH – B 8466







Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.786
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 10-Sep-2012 1:29		

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		2.743	Before		163.5	Before		165.0
After		4.343	After		161.6	After		163.1
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			148.7 (Minimum) 163.5 (Nominal) 178.4 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	
Before: 10-Sep-2012 1:29			After: 10-Sep-2012 14:39					

Company: **JAMSTEC****Schlumberger**Well: **C0020A**Field: **C0020**Pref. **Aomori**Country: **Japan**

Dipole Shear Sonic

Delta T Print

1:200