

DEPTH SUMMARY LISTING

Date Created: 31-AUG-2010 3:48:51

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 2844 Calibration Date: 03-MAR-2010 Calibrator Serial Number: 33 Calibration Cable Type: 7-39P LXS Wheel Correction 1: -10 Wheel Correction 2: -9	Type: CMTD-B/A Serial Number: 1883 Calibration Date: 11-AUG-2010 Calibrator Serial Number: 78796 Number of Calibration Points: 10 Calibration RMS: 14 Calibration Peak Error: 26	Type: 7-39P LXS Serial Number: 708271 Length: 15700 FT <hr/> Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface: 176.20 FT
Rig Up Length At Bottom: 176.20 FT
Rig Up Length Correction: 0.00 FT
Stretch Correction: 0.00 FT
Tool Zero Check At Surface: 33.10 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES FOLLOWED
2. IDW IS PRIMARY DEPTH CONTROL
3. Z-CHART IS SECONDARY DEPTH CONTROL
- 4.
- 5.
- 6.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: TLD OS2: CNTG OS3: TEMP/AUDIO OS4: ECS OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
PRESENTATION AS PER CLIENT REQUEST	
TOOLS RUN AS PER TOOL SKETCH	
SCHLUMBERGER FIRST RUN DEPTH CONTROL POLICY FOLLOWED	
MATRIX = LIMESTONE	
MATRIX DENSITY = 2.68 g/cc	

RUGOSE HOLE FROM 7315 TO 7130

THANK YOU FOR CHOOSING SCHLUMBERGER WIRELINE!
YOUR CREW TODAY: J. MOORE AND J. BUSH

RUN 1		
SERVICE ORDER #:	BEUA-0001 4	
PROGRAM VERSION:	17CO-154	
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

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

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

GSR-U/Y
WITM (DTS)-A

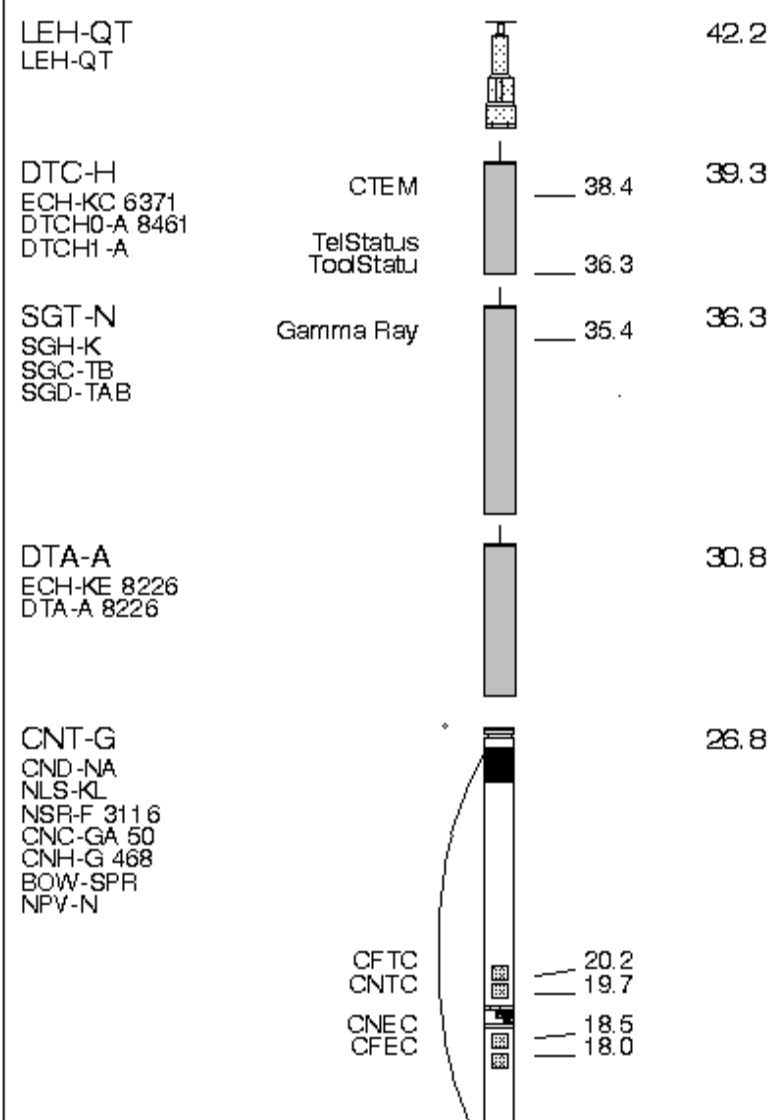
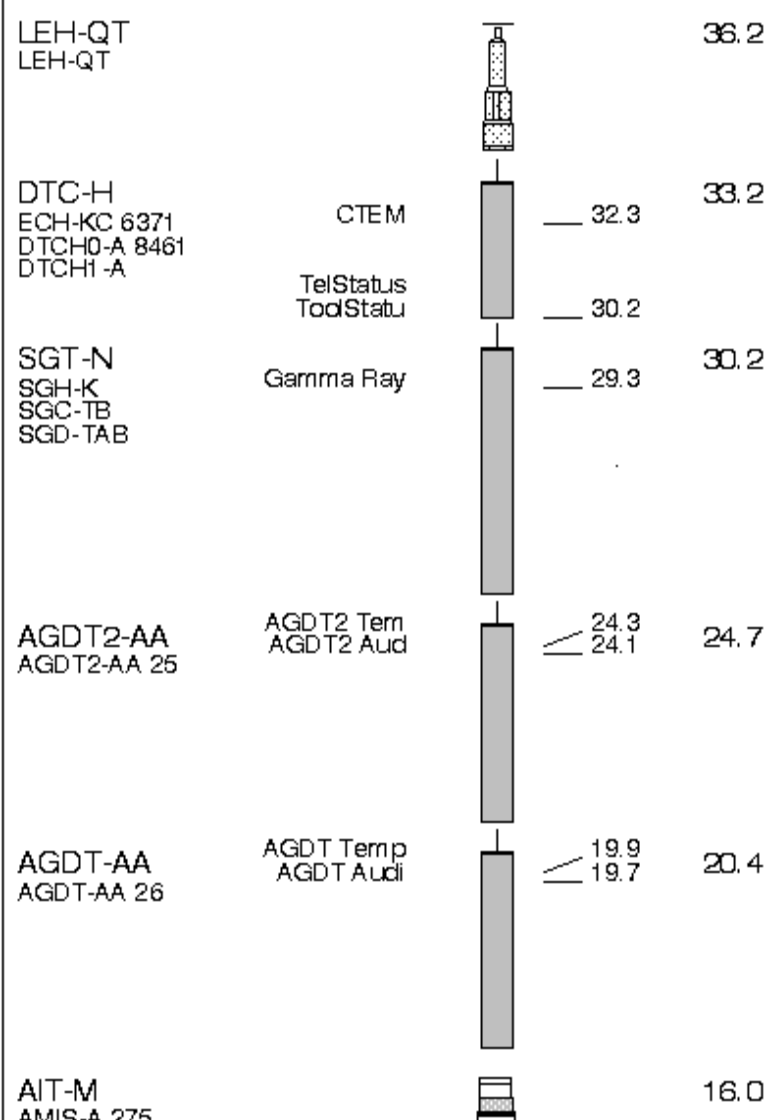
RUN 2

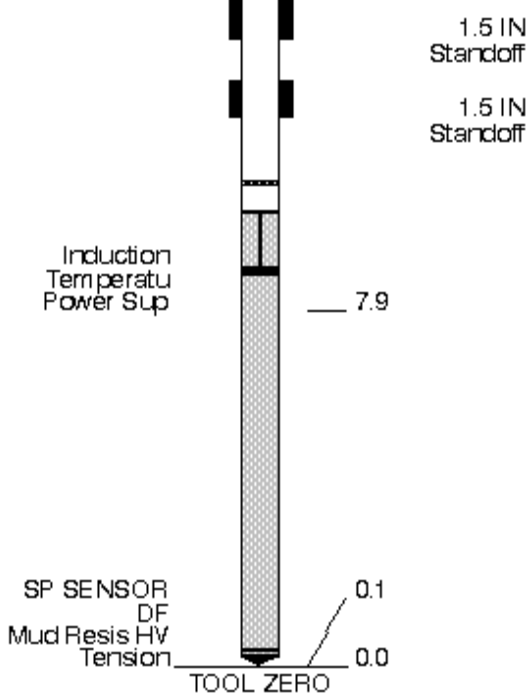
SURFACE EQUIPMENT

WITM (DTS)-A
CNB-AB
NCT-B
NCS-VB
GSR-U/Y

DOWNHOLE EQUIPMENT

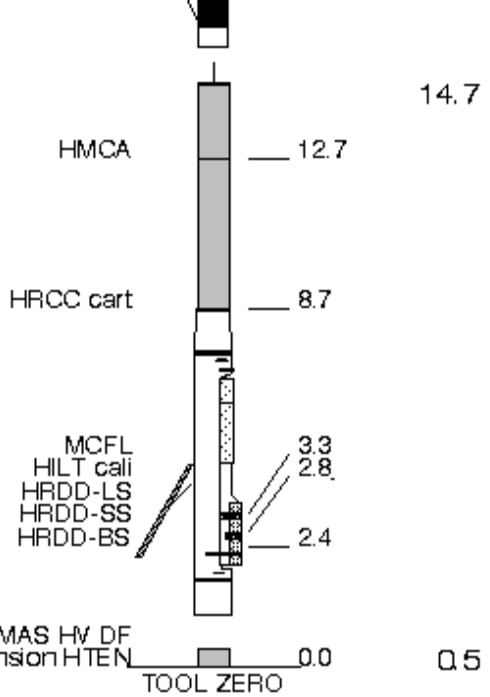
DOWNHOLE EQUIPMENT





- HILTH-FTB
- HTBCD-H 3779
- HMCA-H
- HRCC-H 4317
- HRMS-H 4809
- HRGD-H 4882
- GLS-VJ 5430
- MCFL Device-H
- HILT Nucl. LS-H 10300
- HILT Nucl. SS-H 42137
- HILT Nucl. BS-H 41107

MAXIMUM STRING DIAMETER 6.88 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN FEET



BNS-CCS

MAXIMUM STRING DIAMETER 4.63 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN FEET



MAIN PASS
2 INCHES = 100 FEET

MAXIS Field Log

Input DLIS Files

DEFAULT	MERGE_AIT_AGDT_TLD_020GUP	FN:1	PRODUCER	31-Aug-2010 05:57	7358.0 FT	19.0 FT
---------	---------------------------	------	----------	-------------------	-----------	---------

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_021PUP	FN:17	PRODUCER	31-Aug-2010 05:58	7358.0 FT	19.5 FT
---------	-------------------------	-------	----------	-------------------	-----------	---------

Integrated Hole/Cement Volume Summary

Hole Volume = 1975.57 F3
 Cement Volume = 1219.29 F3 (assuming 5.50 IN casing O.D.)
 Computed from 7346.0 FT to 2762.0 FT using data channel(s) HCAL

OP System Version: 17C0-154

AIT-M	17C0-154	HILTH-FTB	17C0-154
CNT-G	SPC-3867-NUCL	DTA-A	SKK-3882-EDTCB
AGDT-AA	17C0-154	AGDT2-AA	17C0-154
SGT-N	17C0-154	DTC-H	17C0-154

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3

**NEUTRON-DENSITY CROSS OVER
From RHOZ to ENPH**

Differential Borehole Fluid Temperature
2 (DBFT2)
(DEGF) -1 1

GR > 200
From LHT1 to GR1

Tension (TENS)
(LBF) 10000 0

HILT Caliper (HCAL)
(IN) 5 15

Gamma Ray (GR)
(GAPI) 0 200

2 Std. Res. Formation Density (RHOZ) 3
(G/C3)

0 Std. Res. Formation Pe (PEFZ) 10
(---)

85 Borehole Fluid Temperature 2 (BFT2) 90
(DEGF)

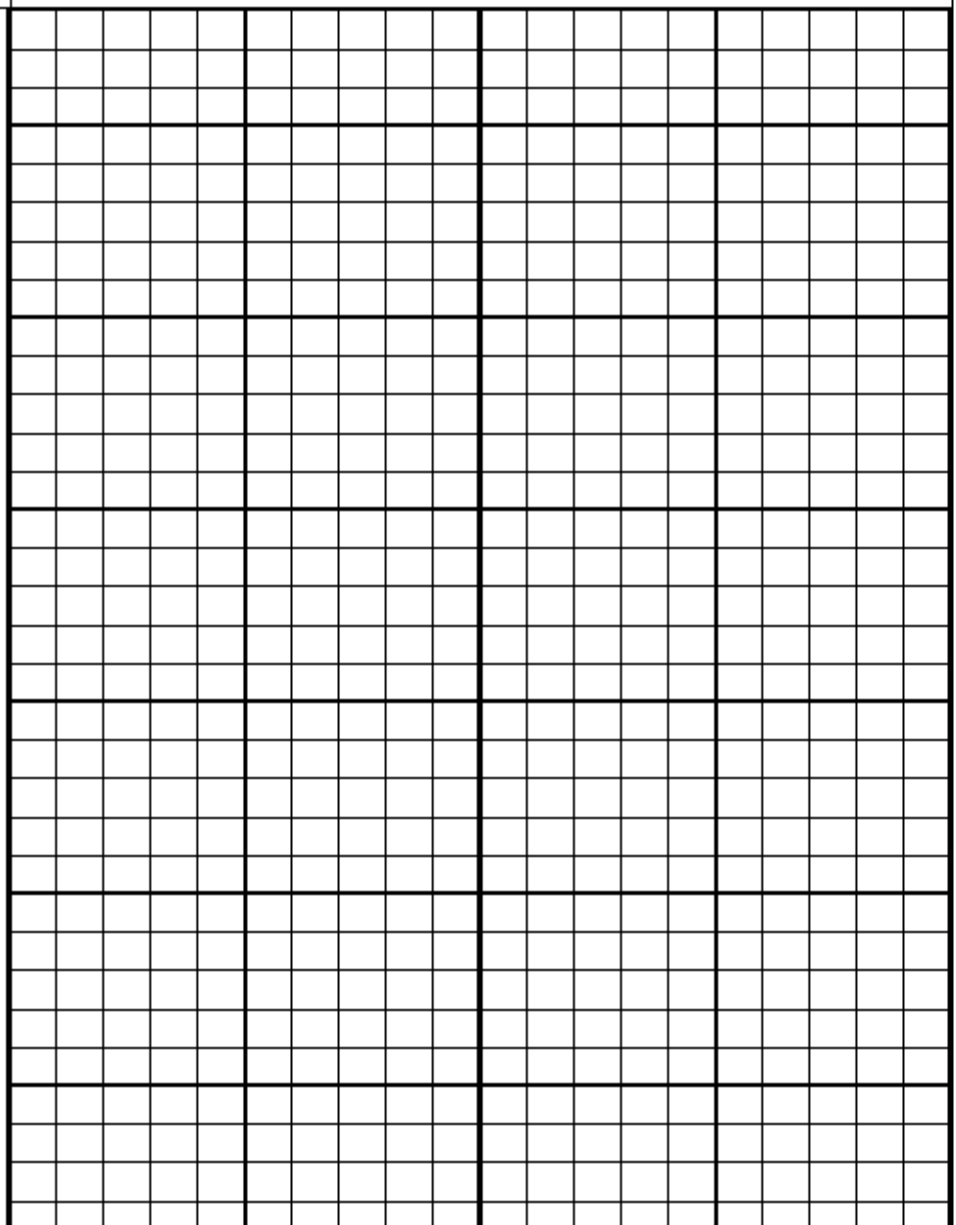
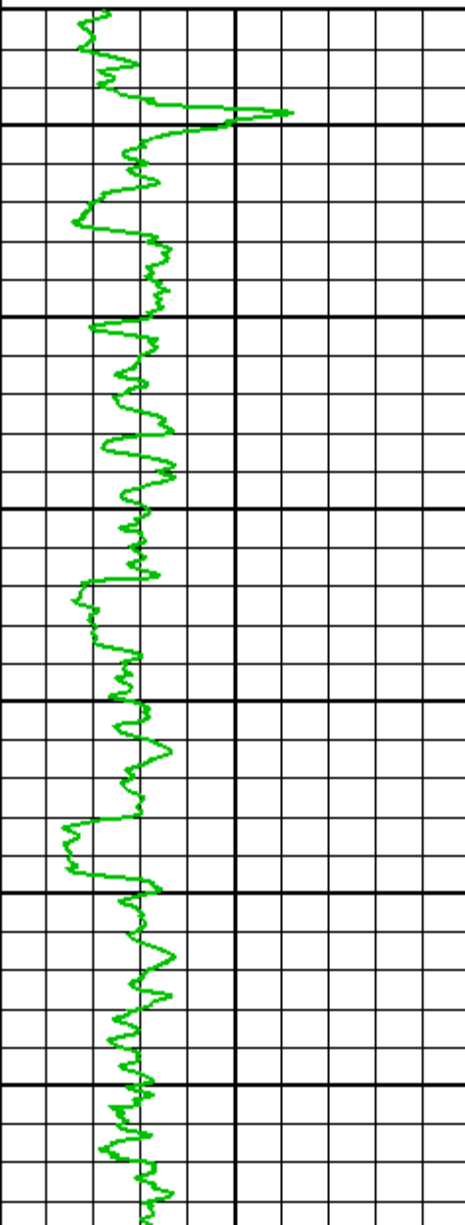
-0.05 Density Correction (HDRA) 0.45
(G/C3)

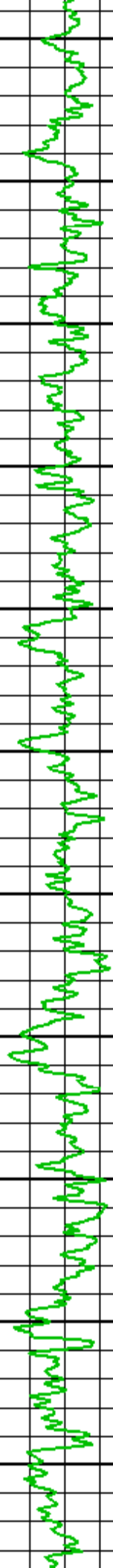
0.3 Epithermal Neutron Porosity (ENPH) -0.1
(V/V)

0.3 Std. Res. Density Porosity (DPHZ) -0.1
(V/V)

500 Audio2 (AUD2) 0
(MV)

0 Audio1 (AUD1) 500
(MV)





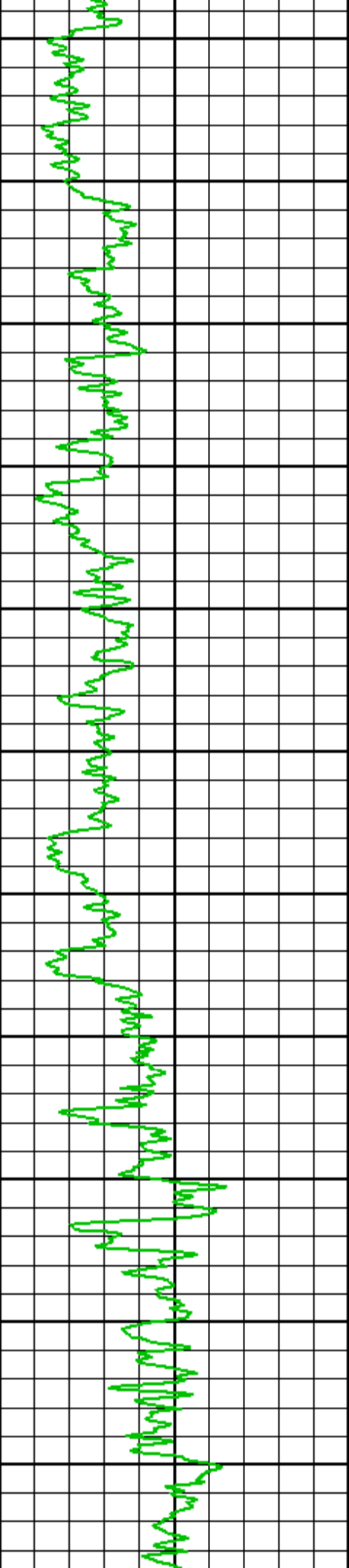
400

500

600

700

800



900

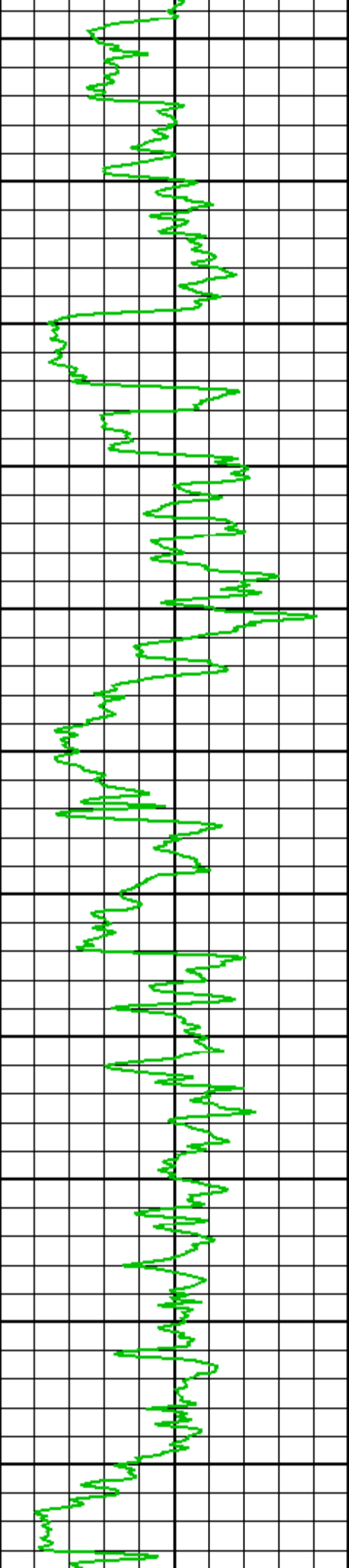
1000

1100

1200

1300

1400



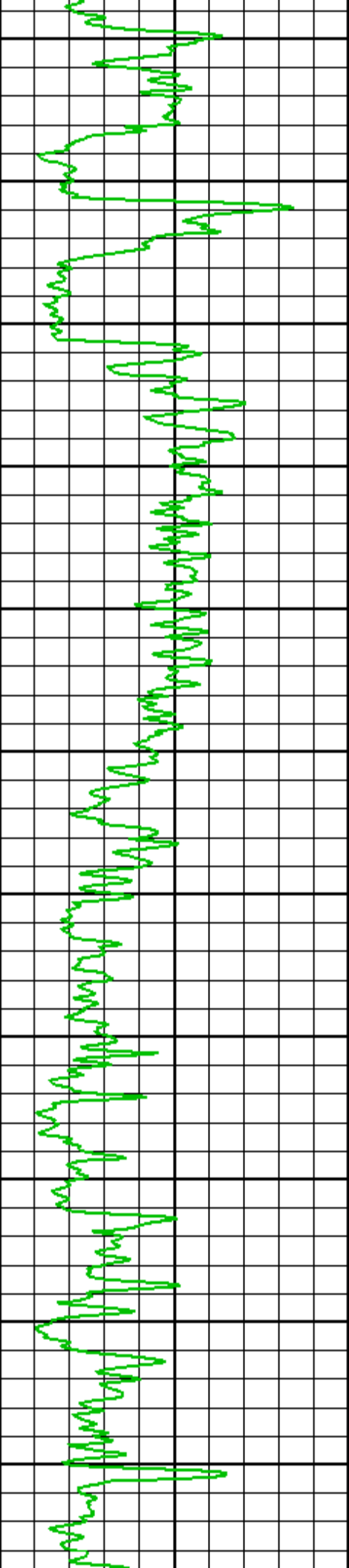
1500

1600

1700

1800

1900



2000

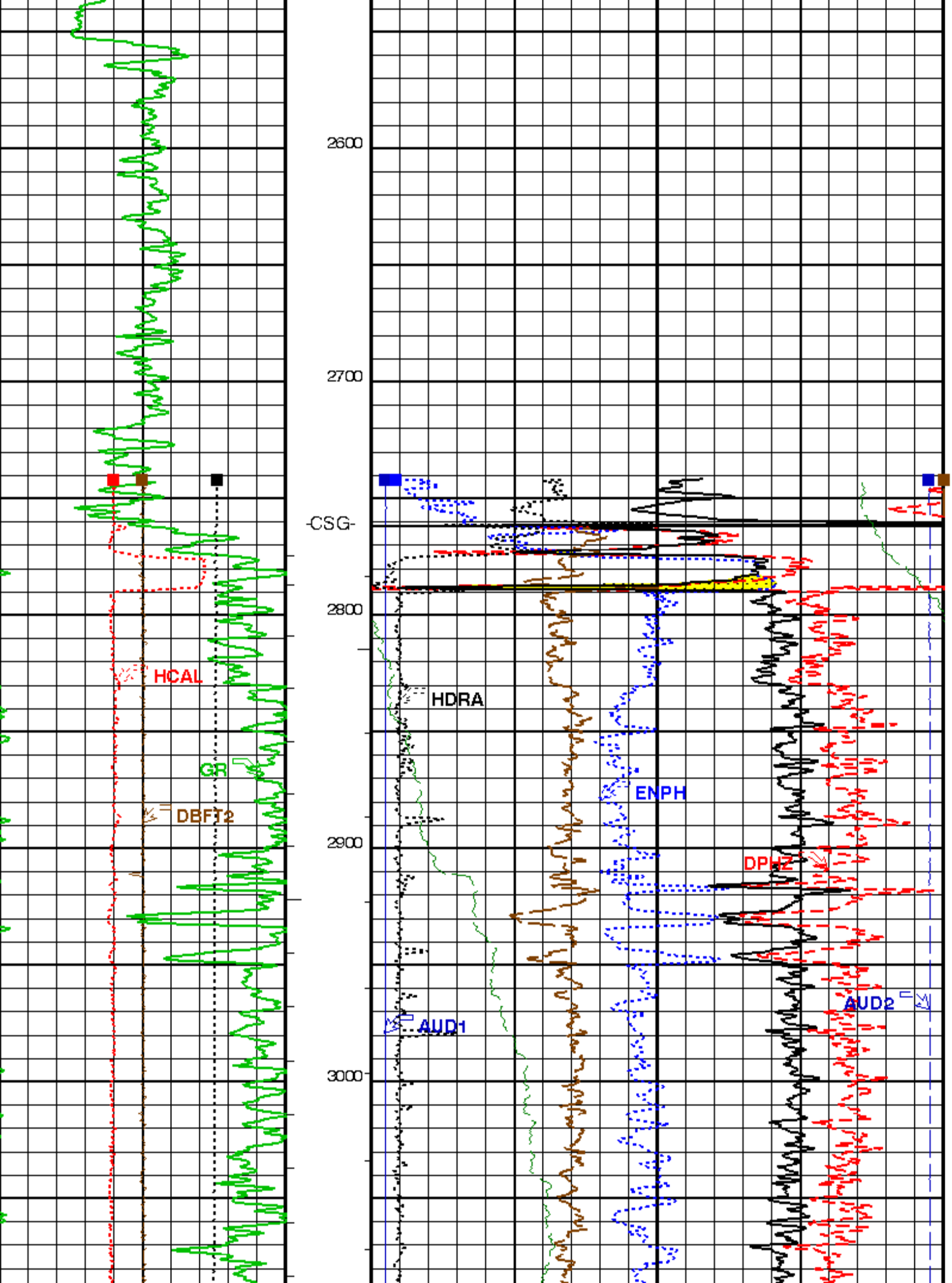
2100

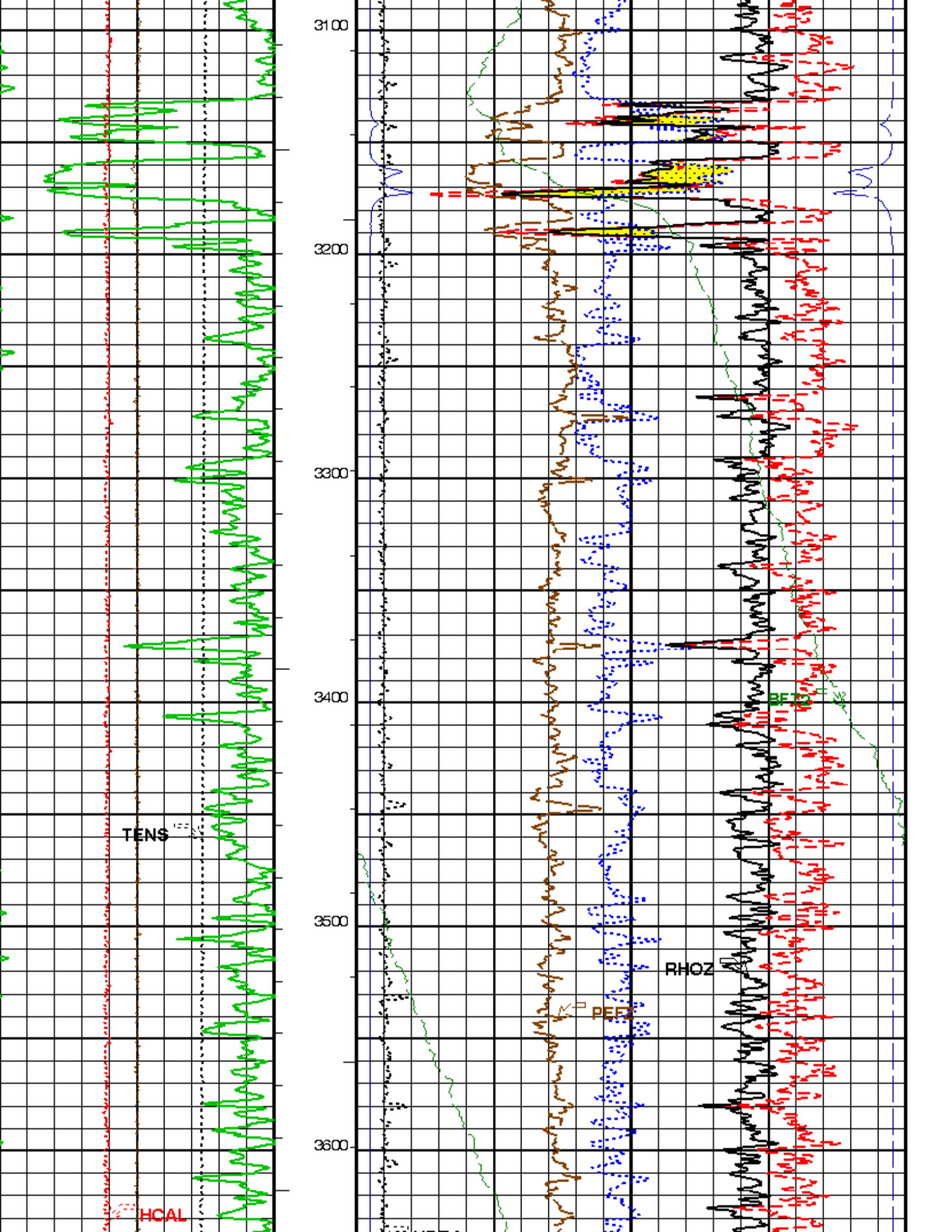
2200

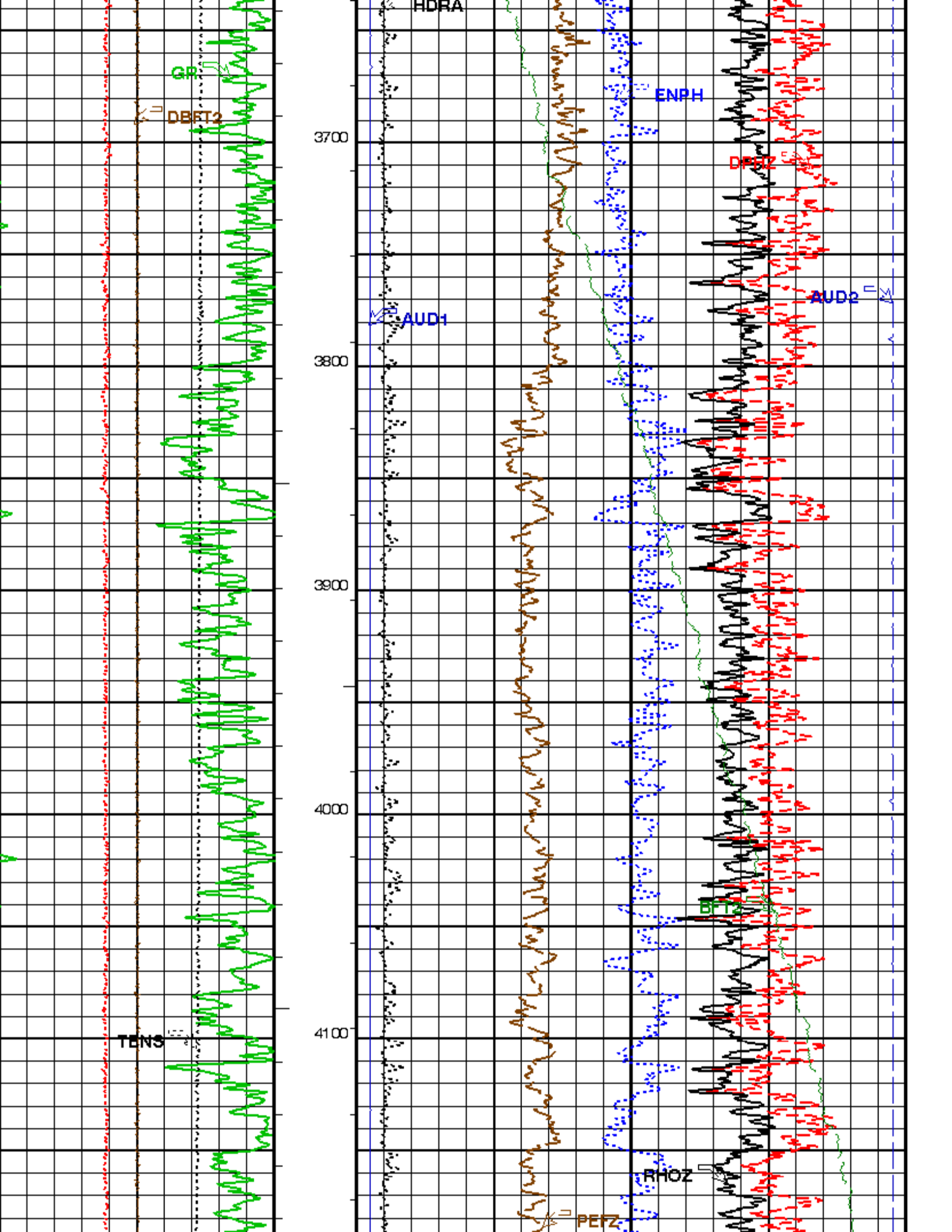
2300

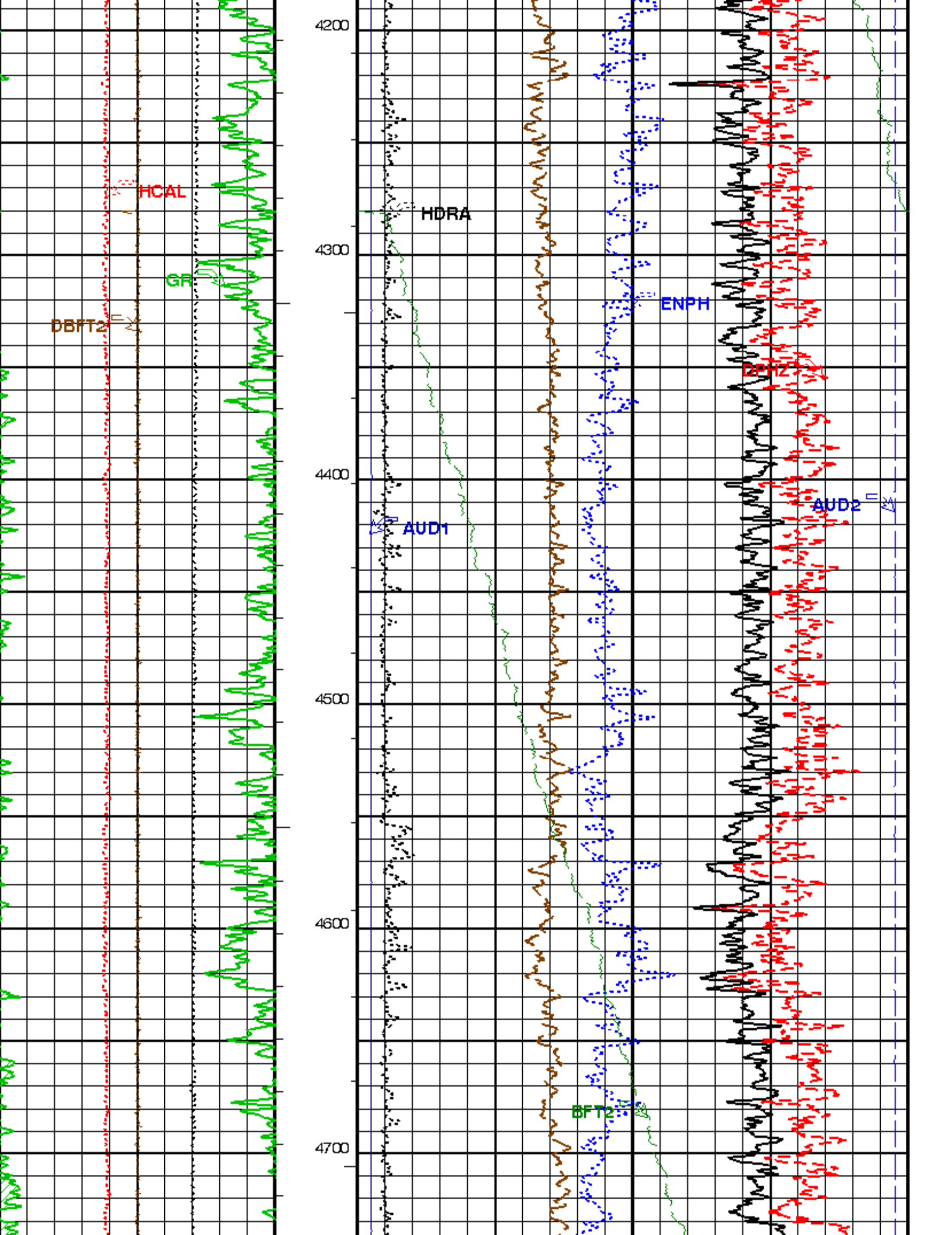
2400

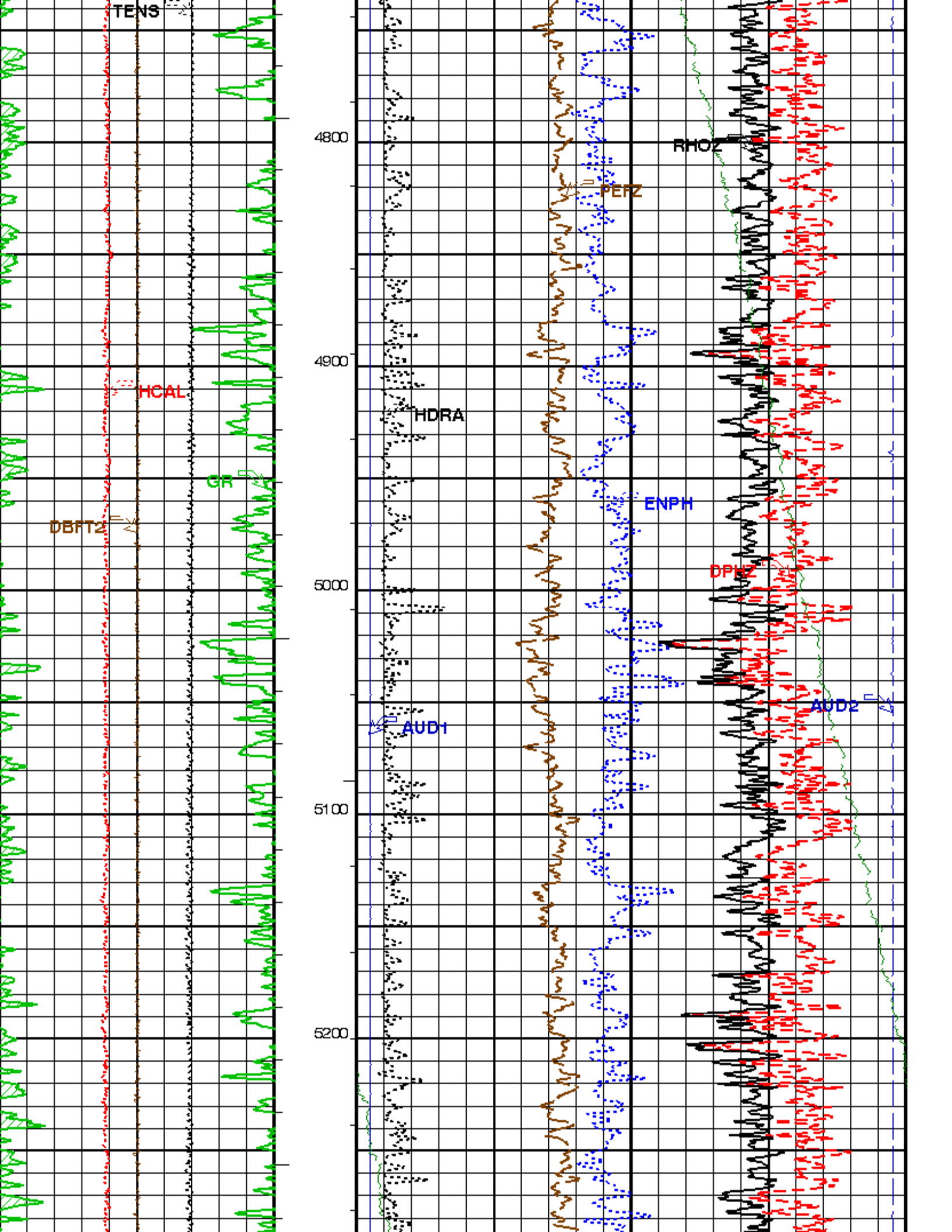
2500

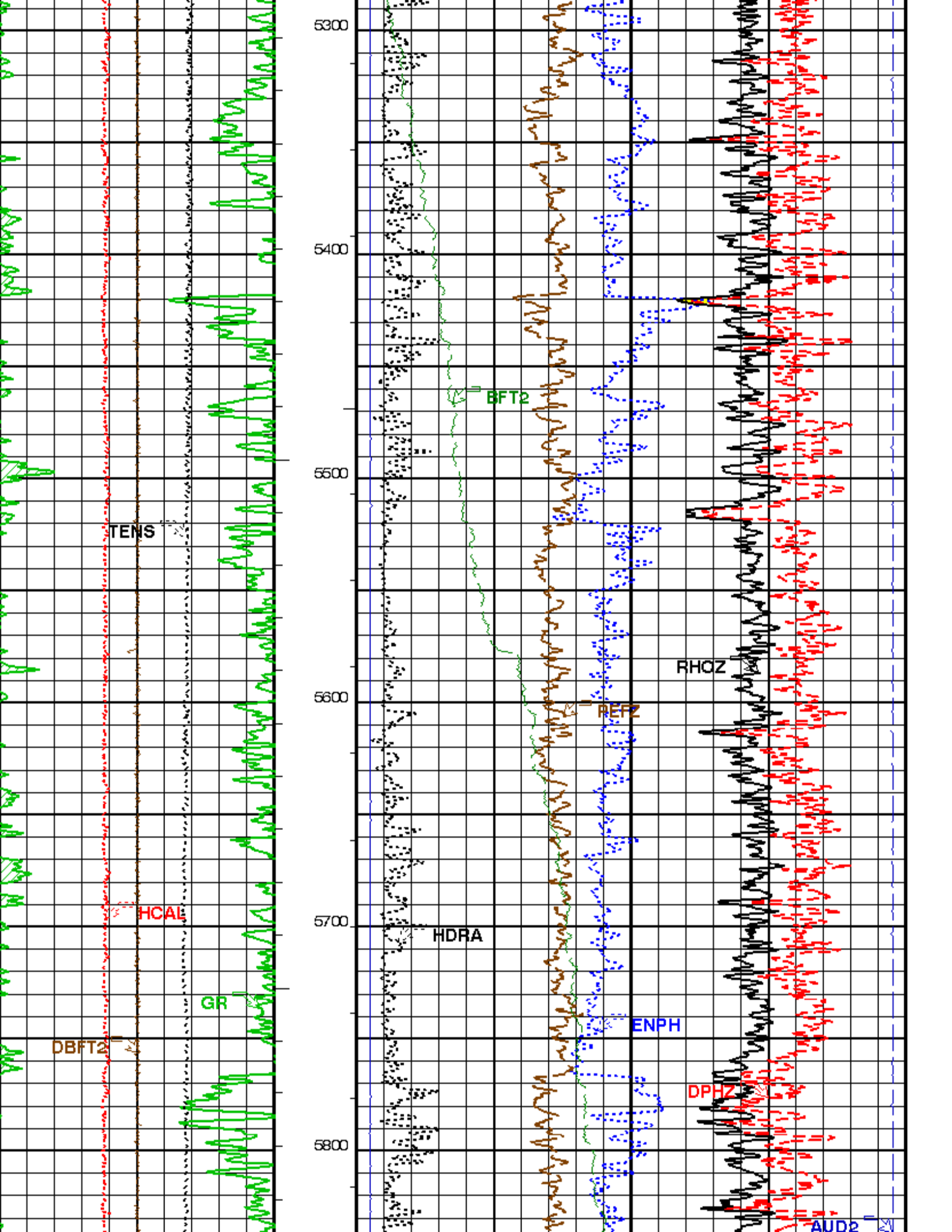


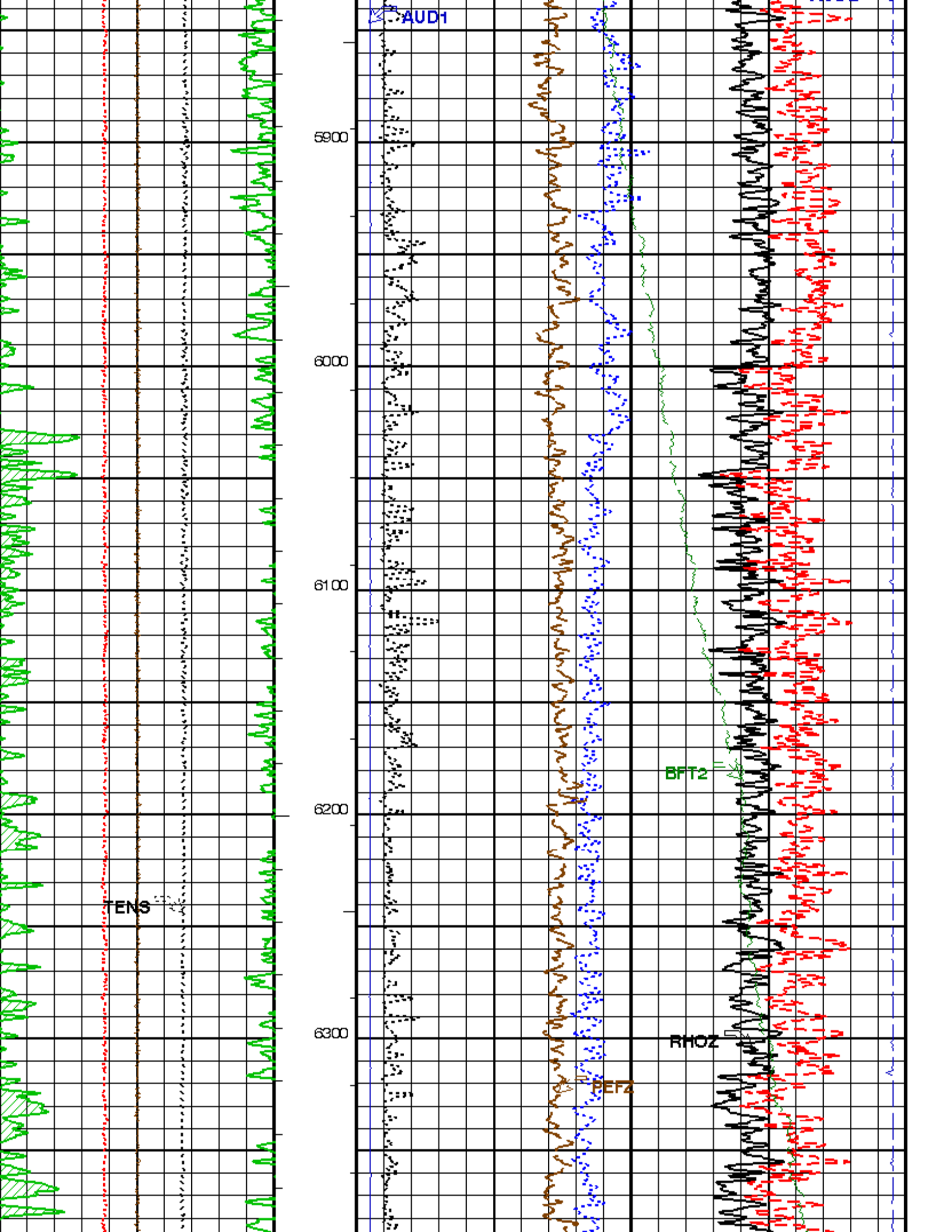


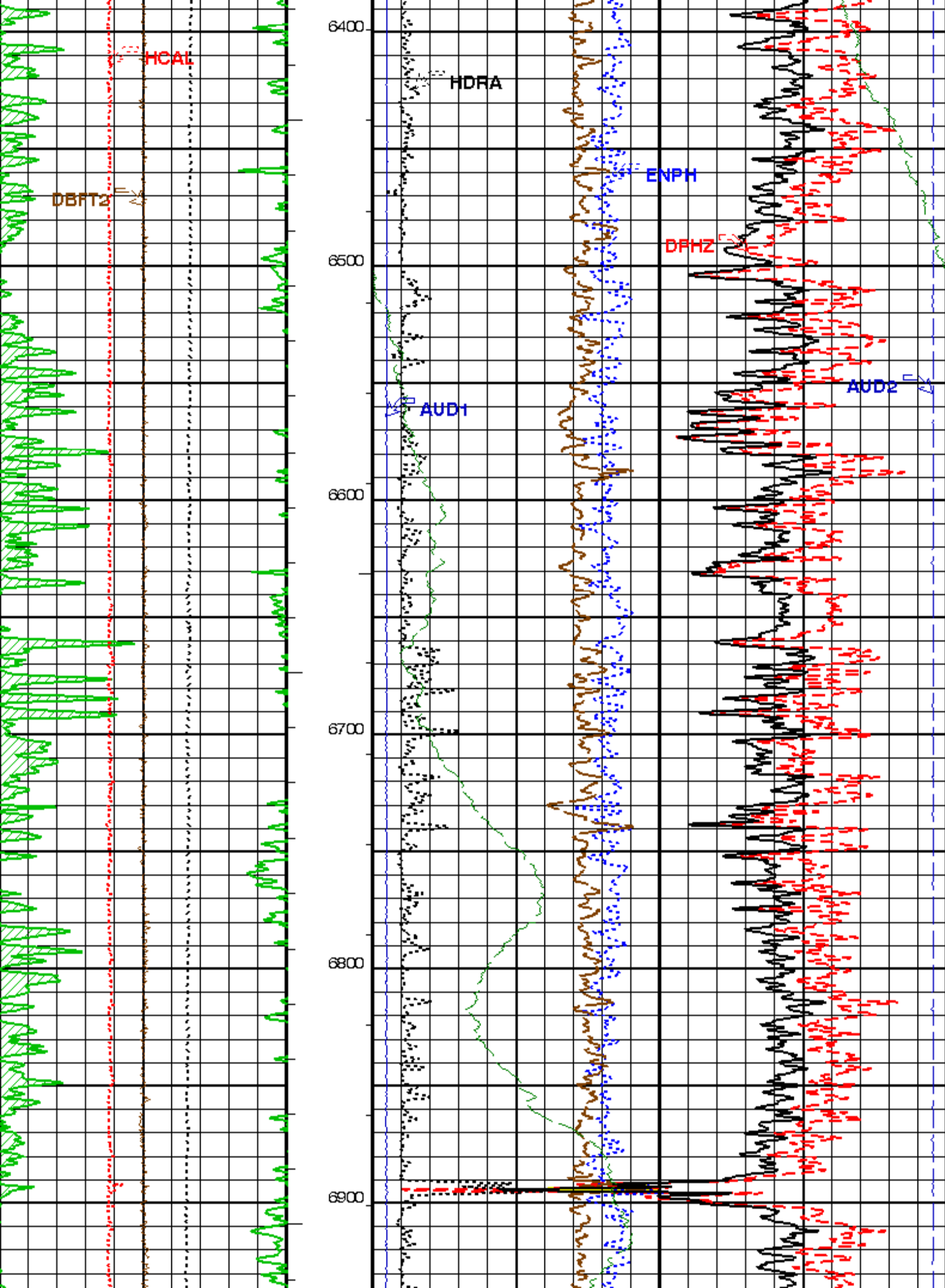


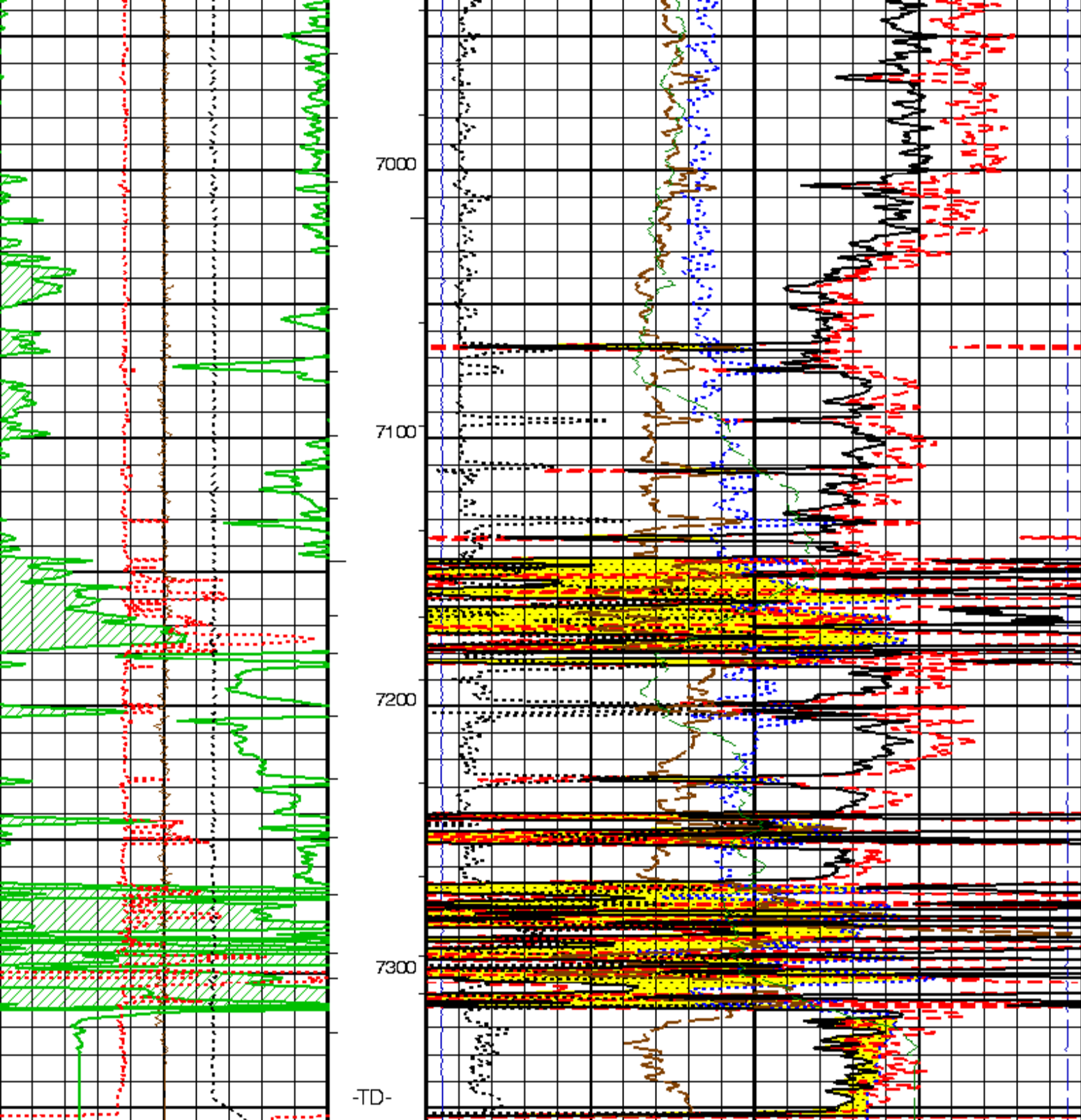












Gamma Ray (GR) (GAPI)	
0	200
HILT Caliper (HCAL) (IN)	
5	15
Tension (TENS) (LBF)	
10000	0
GR > 200 From LHT1 to GR1	
Differential Borehole Fluid Temperature 2 (DBFT2) (DEGF)	
-1	1

Audio1 (AUD1) (MV)	
0	500
Audio2 (AUD2) (MV)	
500	0
Std. Res. Density Porosity (DPHZ) (V/V)	
0.3	-0.1
Epithermal Neutron Porosity (ENPH) (V/V)	
0.3	-0.1
Density Correction (HDRA) (G/C3)	
-0.05	0.45

85	Borehole Fluid Temperature 2 (BFT2)	(DEGF)	90
0	Std. Res. Formation Pe (PEFZ)	(---)	10
2	Std. Res. Formation Density (RHOZ)	(G/C3)	3
NEUTRON-DENSITY CROSS OVER From RHOZ to ENPH			

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
 - Integrated Cement Volume Minor Pip Every 10 F3
 - Integrated Cement Volume Major Pip Every 100 F3

Parameters

DLIS Name	Description	Value
AIT-M: Array Induction Tool - M		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL_TLD	HILT Nuclear Mud Base	AIR
BHS	Borehole Status	OPEN
DHC	Density Hole Correction	BS
FD	Fluid Density	1 G/C3
GCLF	Germany Coal-like Formation Option	NO
GCSE	Generalized Caliper Selection	BS
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MDEN	Matrix Density	2.68 G/C3
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	HiRes
NSAR	HRDD Depth Sampling Rate	1 IN
CNT-G: Compensated Neutron - G		
BHFL	Borehole Fluid Type	AIR
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
AGDT2-AA: Acoustic Gas Detector Tool #2		
TO_AGDT2	AGDT2 Temperature Offset	0
SGT-N: Scintillation Gamma Ray Tool - N		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
FCD	Future Casing (Outer) Diameter	5.5 IN
GCSE	Generalized Caliper Selection	BS
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
System and Miscellaneous		
BS	Bit Size	8.750 IN
DFD	Drilling Fluid Density	0.00 LB/G
DO	Depth Offset for Playback	0.0 FT
PP	Playback Processing	RECOMPUTE
TD	Total Depth	7346 FT

Format: DENSITY_2 Vertical Scale: 2" per 100' Graphics File Created: 31-Aug-2010 05:58

OP System Version: 17C0-154

AIT-M	17C0-154	HILTH-FTB	17C0-154
CNT-G	SPC-3867-NUCL	DTA-A	SKK-3882-EDTCB
AGDT-AA	17C0-154	AGDT2-AA	17C0-154
SGT-N	17C0-154	DTC-H	17C0-154

Input DLIS Files

DEFAULT MERGE_AIT_AGDT_TLD_020GUP FN:1 PRODUCER 31-Aug-2010 05:57 7358.0 FT 19.0 FT

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_021PUP FN:17 PRODUCER 31-Aug-2010 05:58



MAIN PASS
5 INCHES = 100 FEET

MAXIS Field Log

Input DLIS Files

DEFAULT MERGE_AIT_AGDT_TLD_020GUP FN:1 PRODUCER 31-Aug-2010 05:57 7358.0 FT 19.0 FT

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_021PUP FN:17 PRODUCER 31-Aug-2010 05:58 7358.0 FT 19.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 1975.57 F3
 Cement Volume = 1219.29 F3 (assuming 5.50 IN casing O.D.)
 Computed from 7346.0 FT to 2762.0 FT using data channel(s) HCAL

OP System Version: 17C0-154

AIT-M	17C0-154	HILTH-FTB	17C0-154
CNT-G	SPC-3867-NUCL	DTA-A	SKK-3882-EDTCB
AGDT-AA	17C0-154	AGDT2-AA	17C0-154
SGT-N	17C0-154	DTC-H	17C0-154

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
 - Integrated Cement Volume Minor Pip Every 10 F3
 - Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

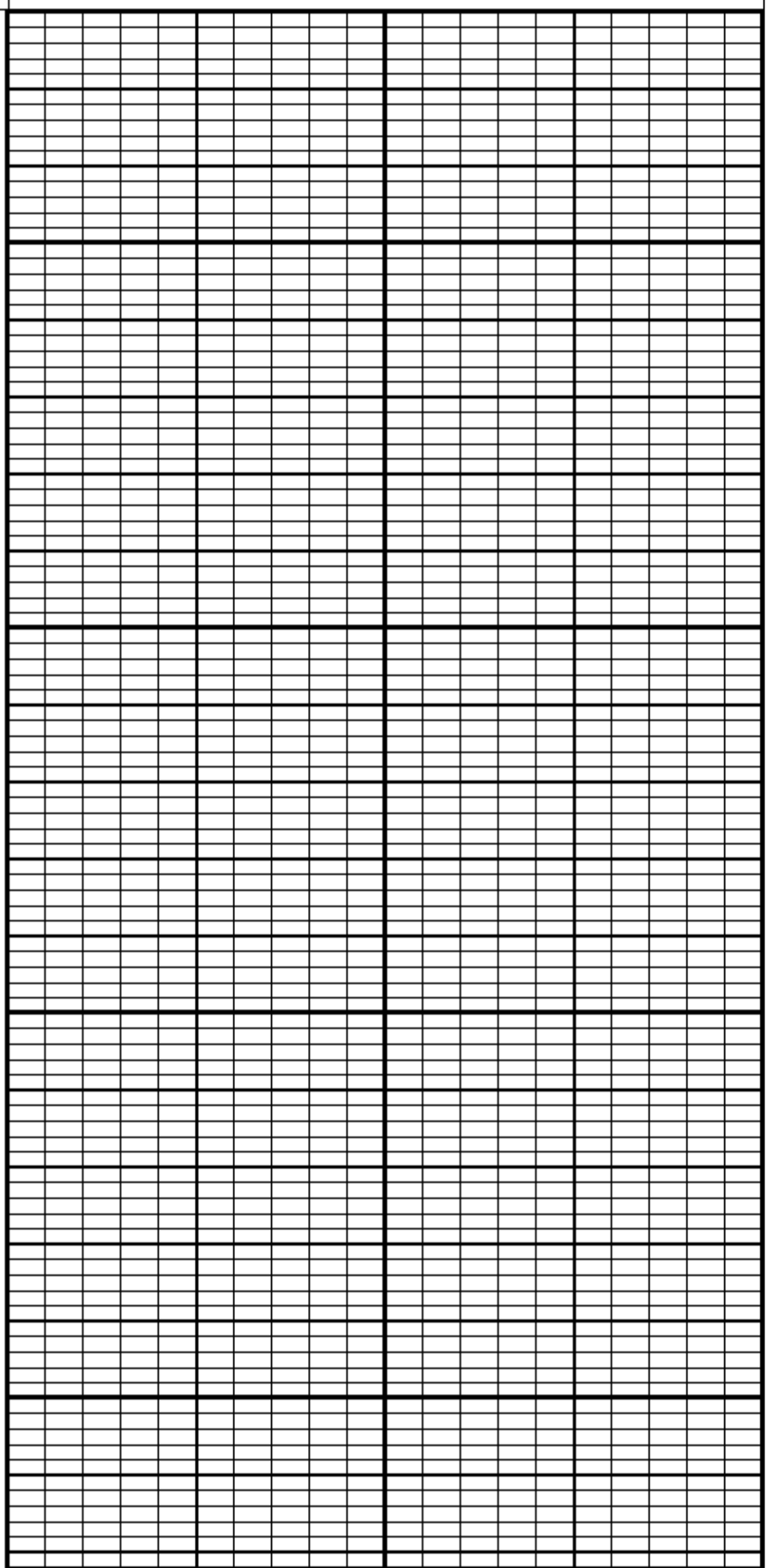
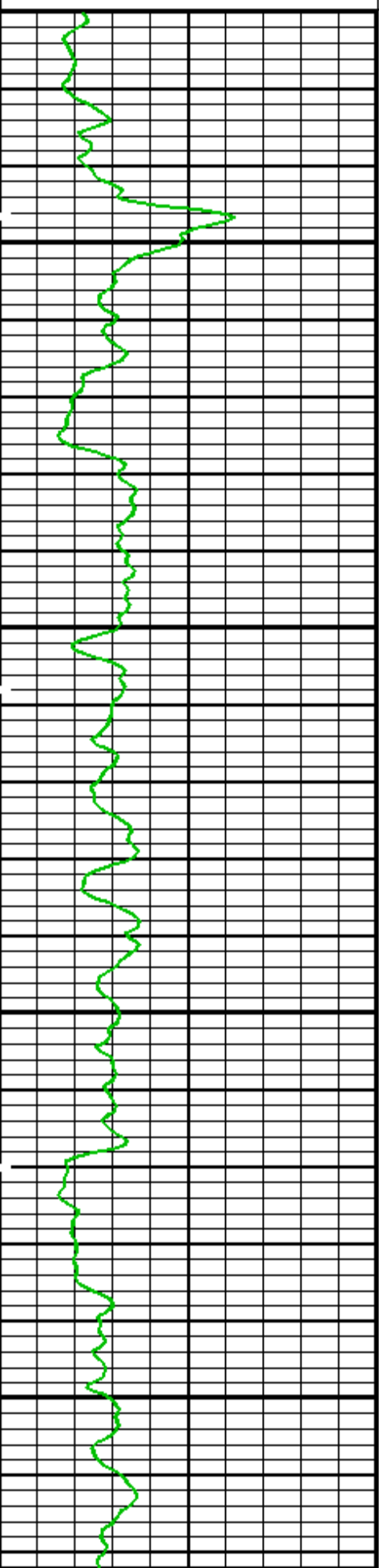
		NUETRON-DENSITY CROSS OVER From RHOZ to ENPH	
		Std. Res. Formation Density (RHOZ)	
		2	3
		(G/C3)	
		Std. Res. Formation Pe (PEFZ)	
		0	10
		(---)	
		Borehole Fluid Temperature 2 (BFT2)	
		85	90
		(DEGF)	
Differential Borehole Fluid Temperature 2 (DBFT2)		Density Correction (HDRA)	
		-0.05	0.45
		(G/C3)	
GR > 200 From LHT1 to GR1		Epithermal Neutron Porosity (ENPH)	
		0.3	-0.1
		(V/V)	
Tension (TENS)		Std. Res. Density Porosity (DPHZ)	
		0.3	-0.1
		(LBF)	
10000	0		

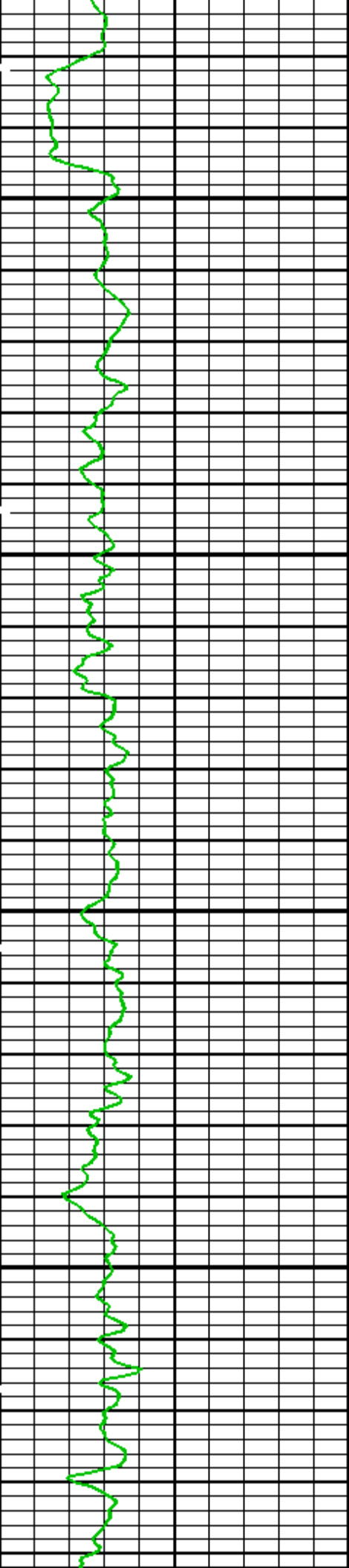
HILT Caliper (HCAL)
(IN) 5 15

Gamma Ray (GR)
(GAPI) 0 200

Audio2 (AUD2)
(MV) 500 0

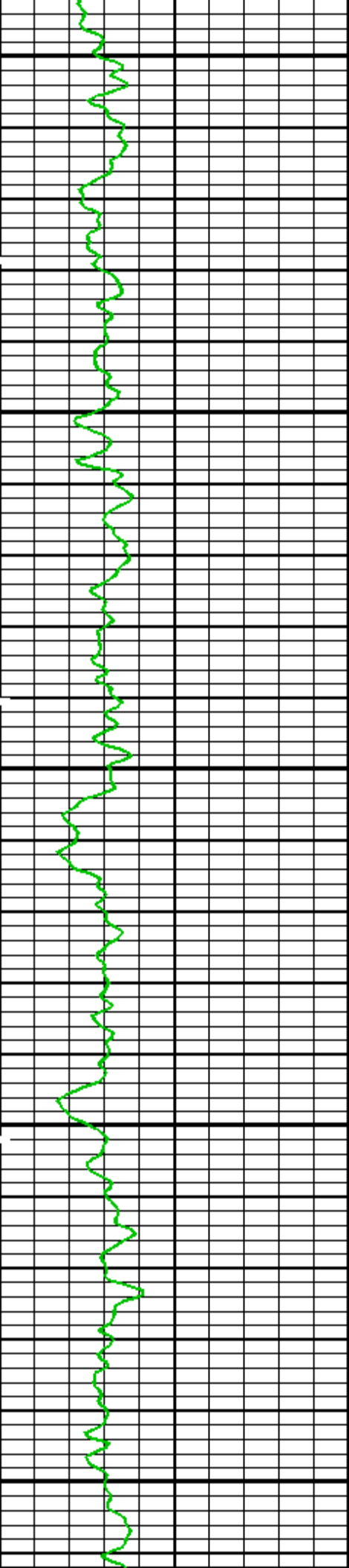
Audio1 (AUD1)
(MV) 0 500





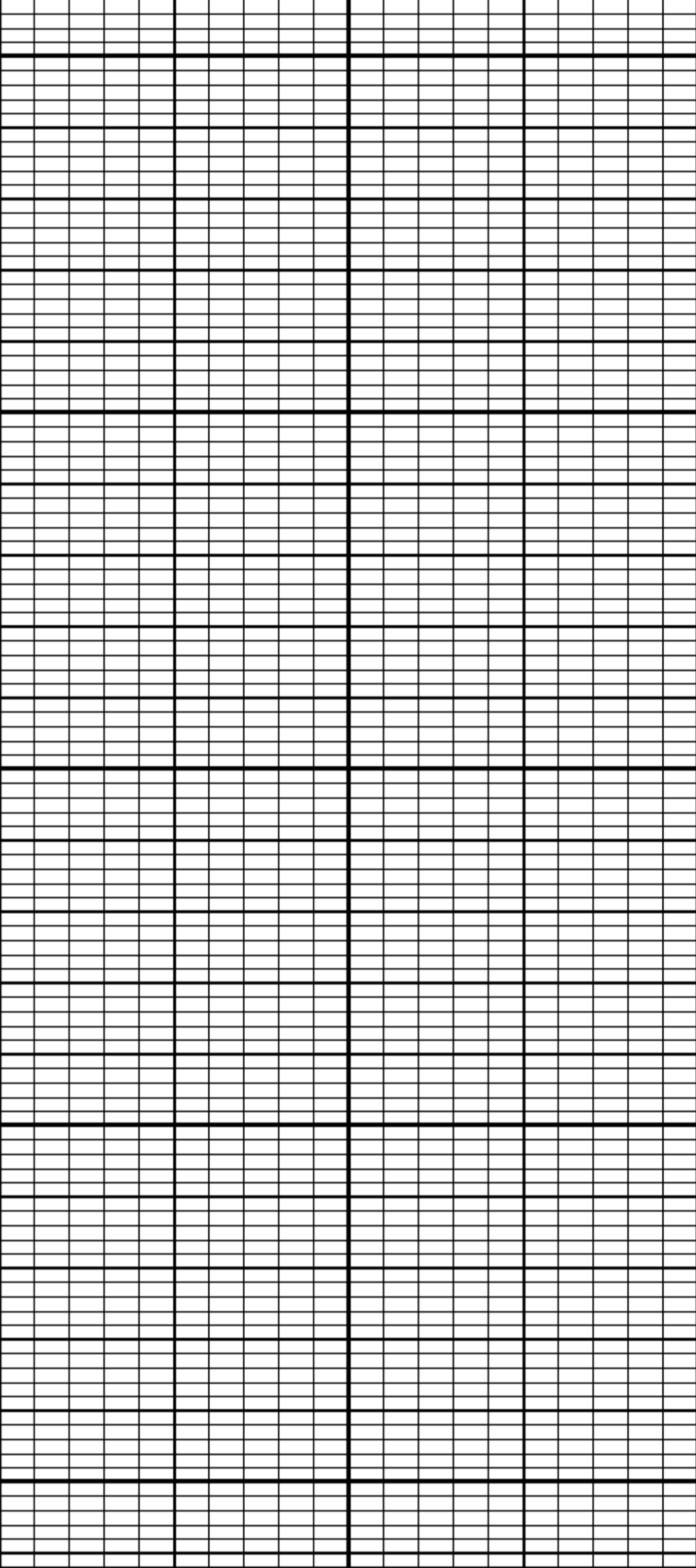
300

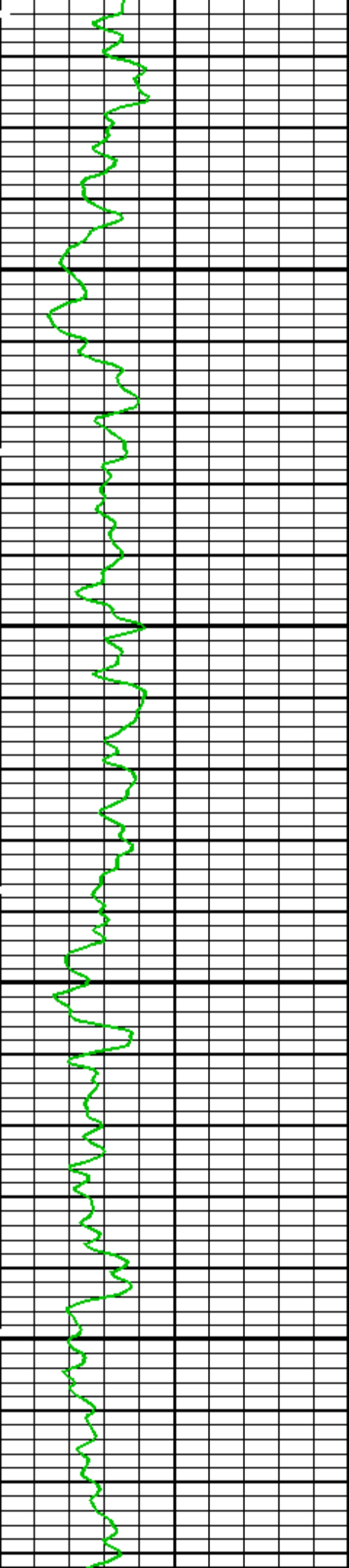
400



500

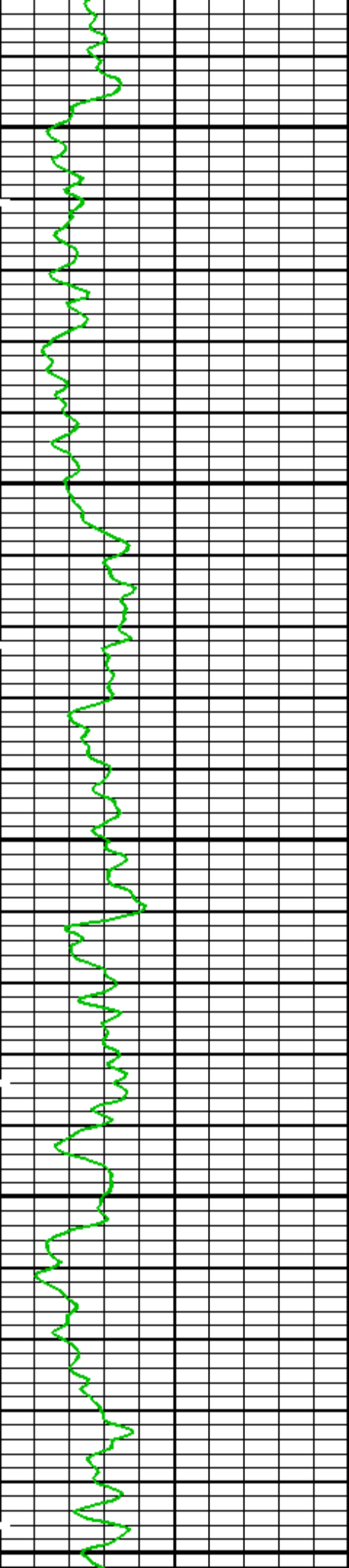
600





700

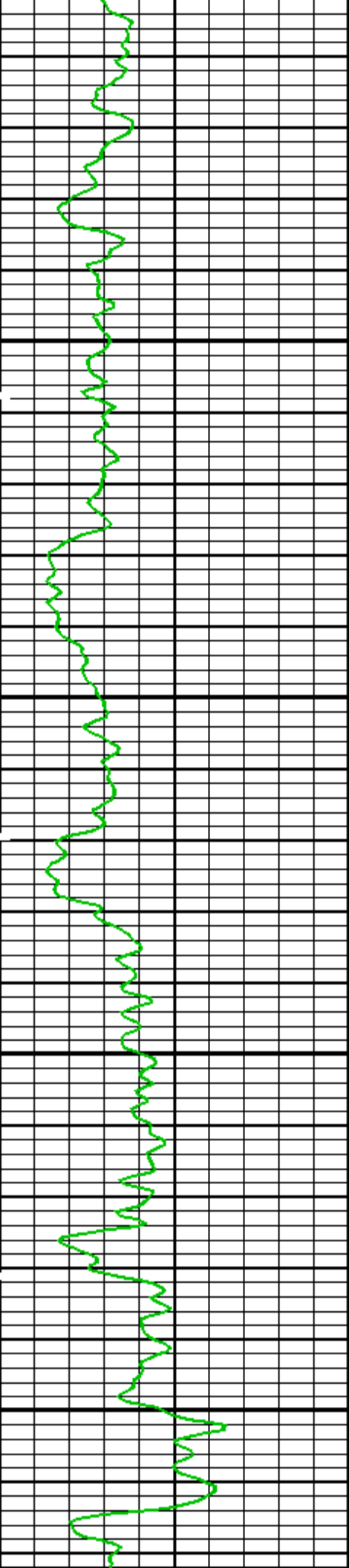
800



900

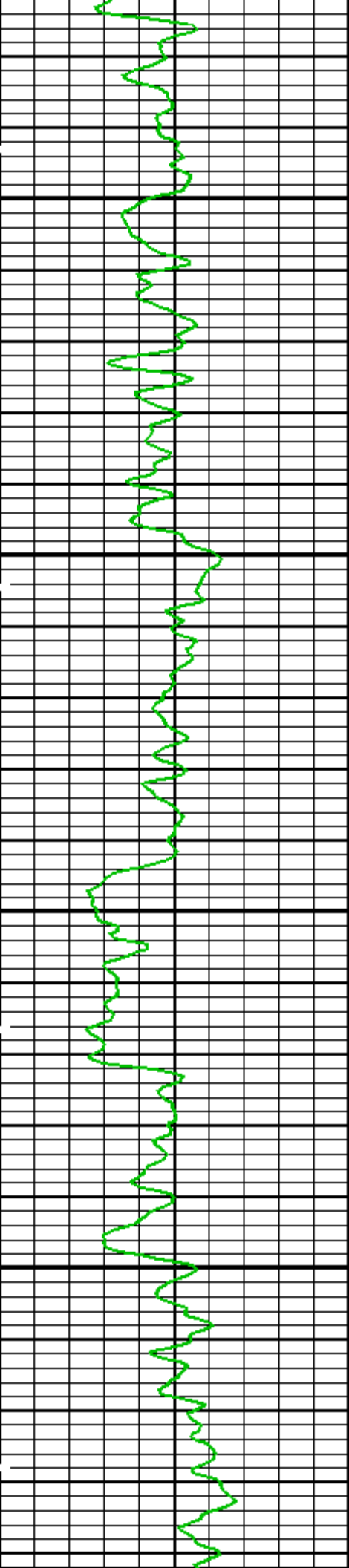
1000

1100



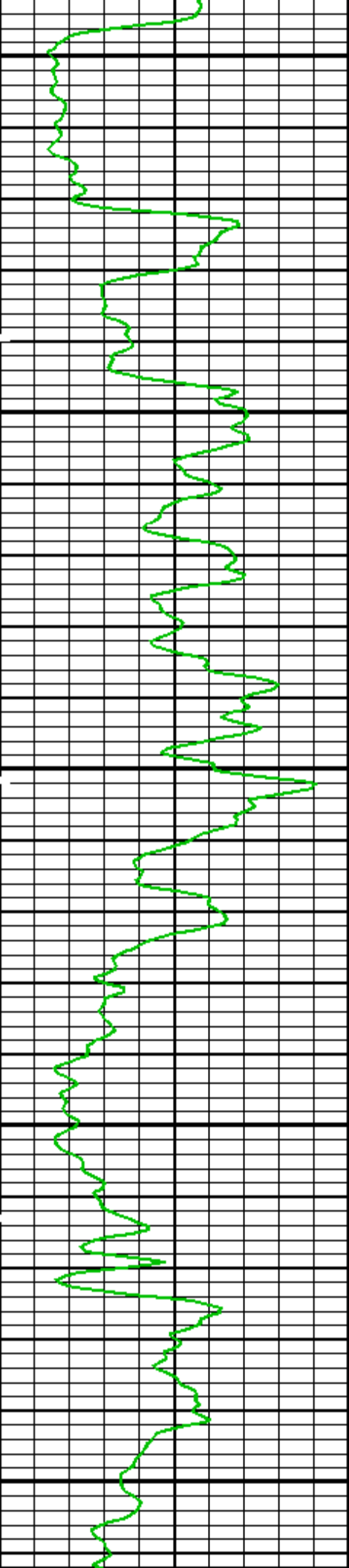
1200

1300



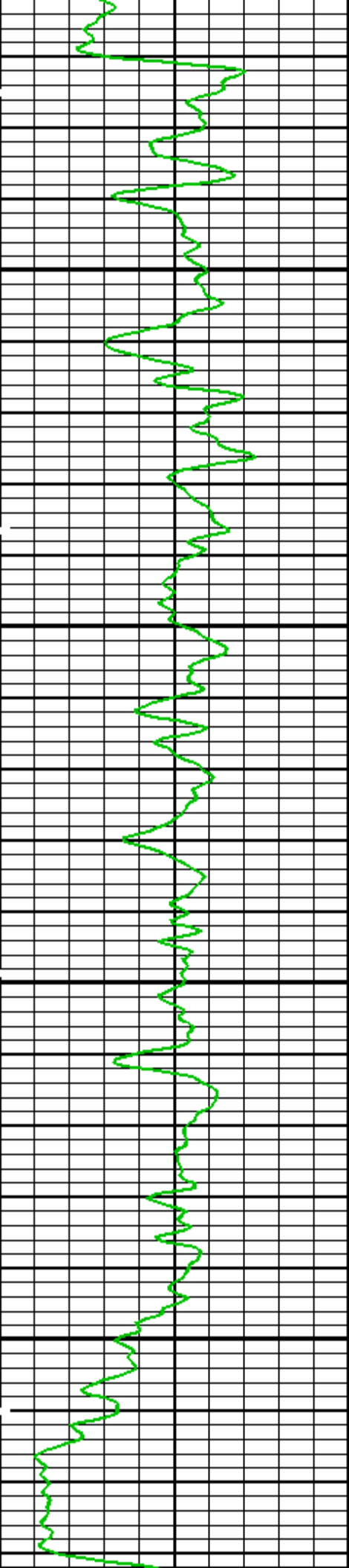
1400

1500



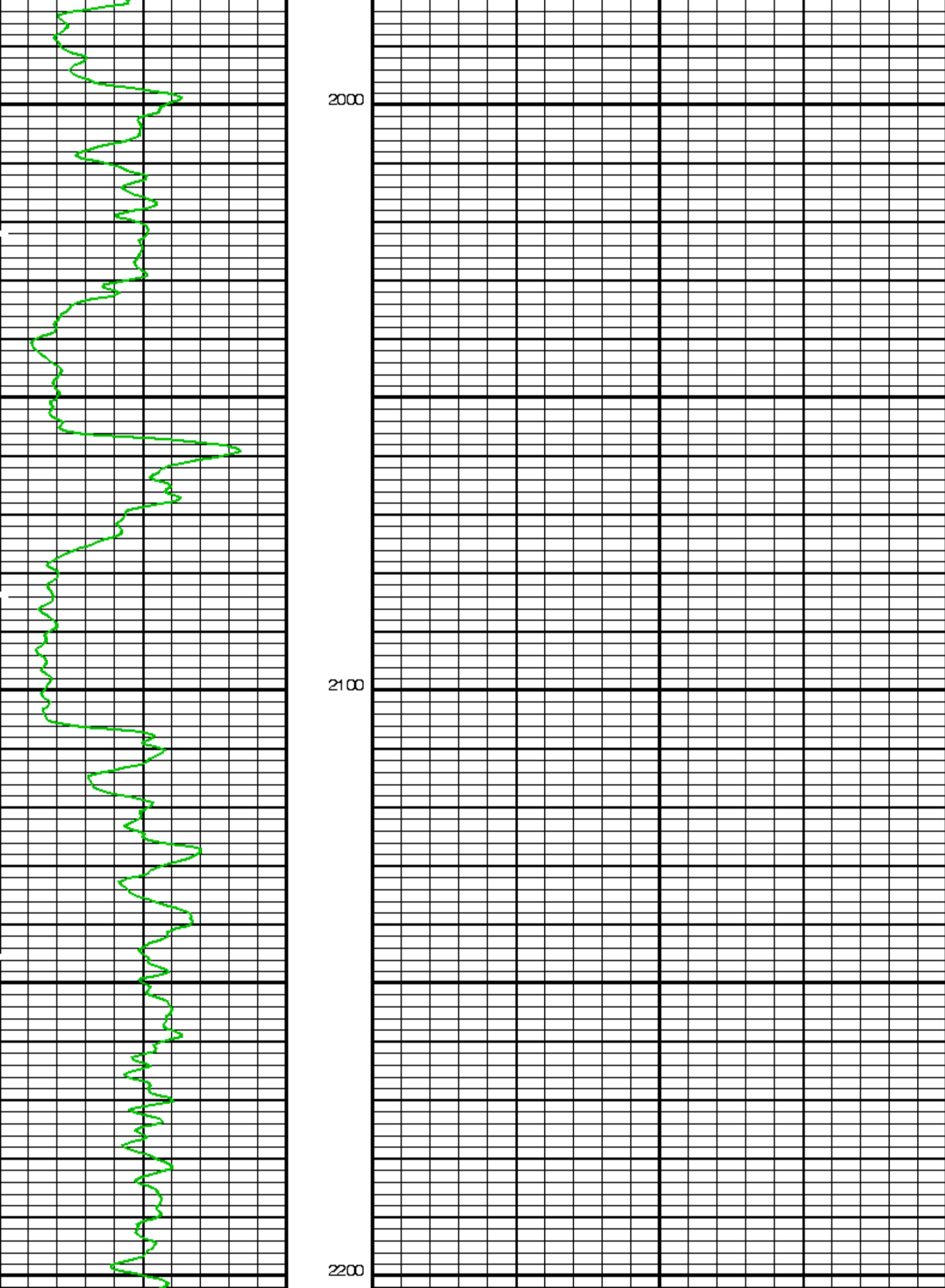
1600

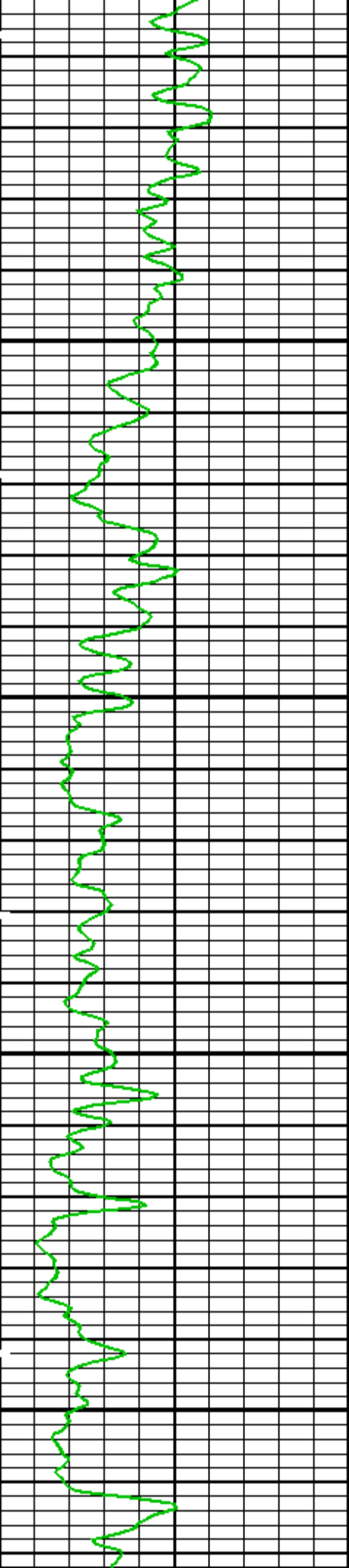
1700



1800

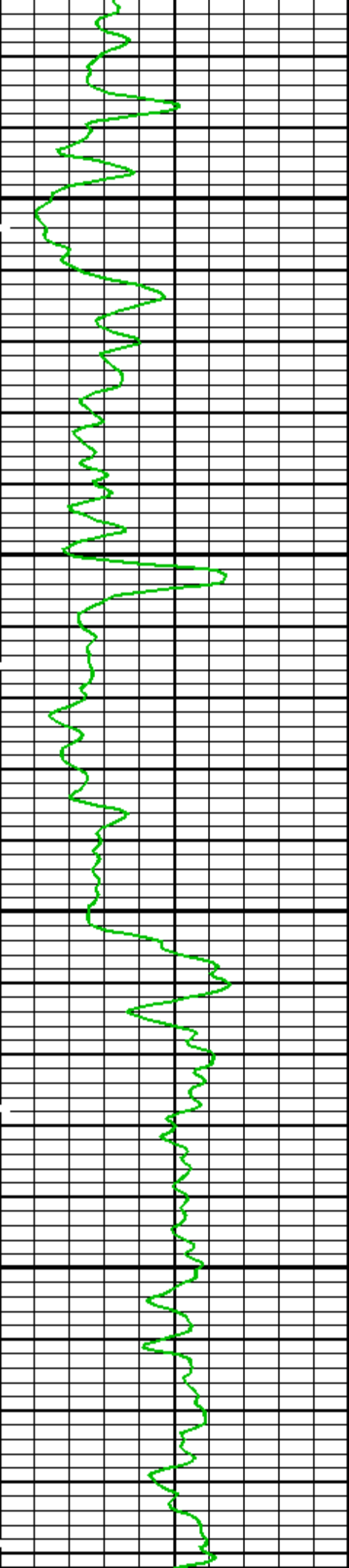
1900





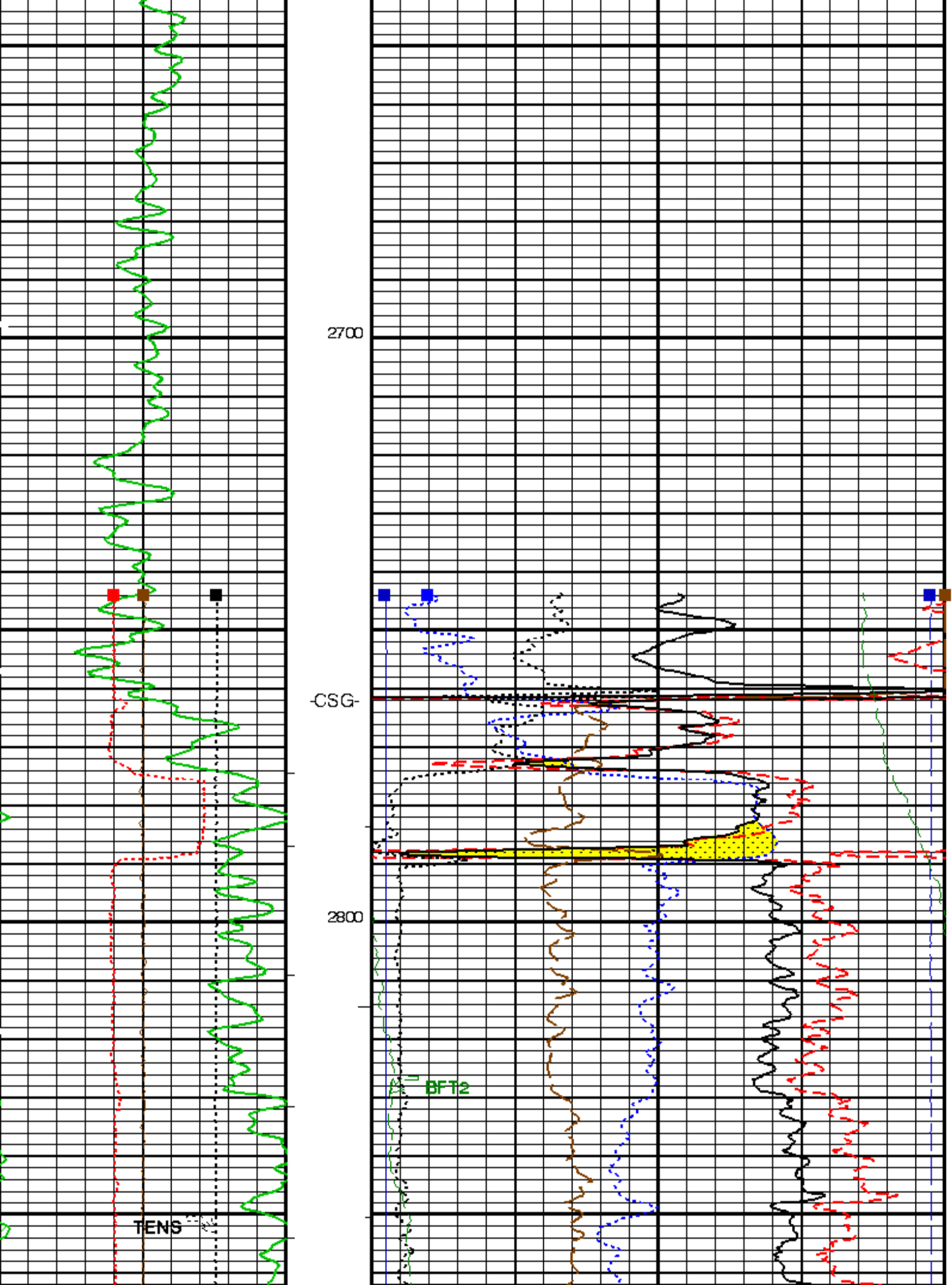
2300

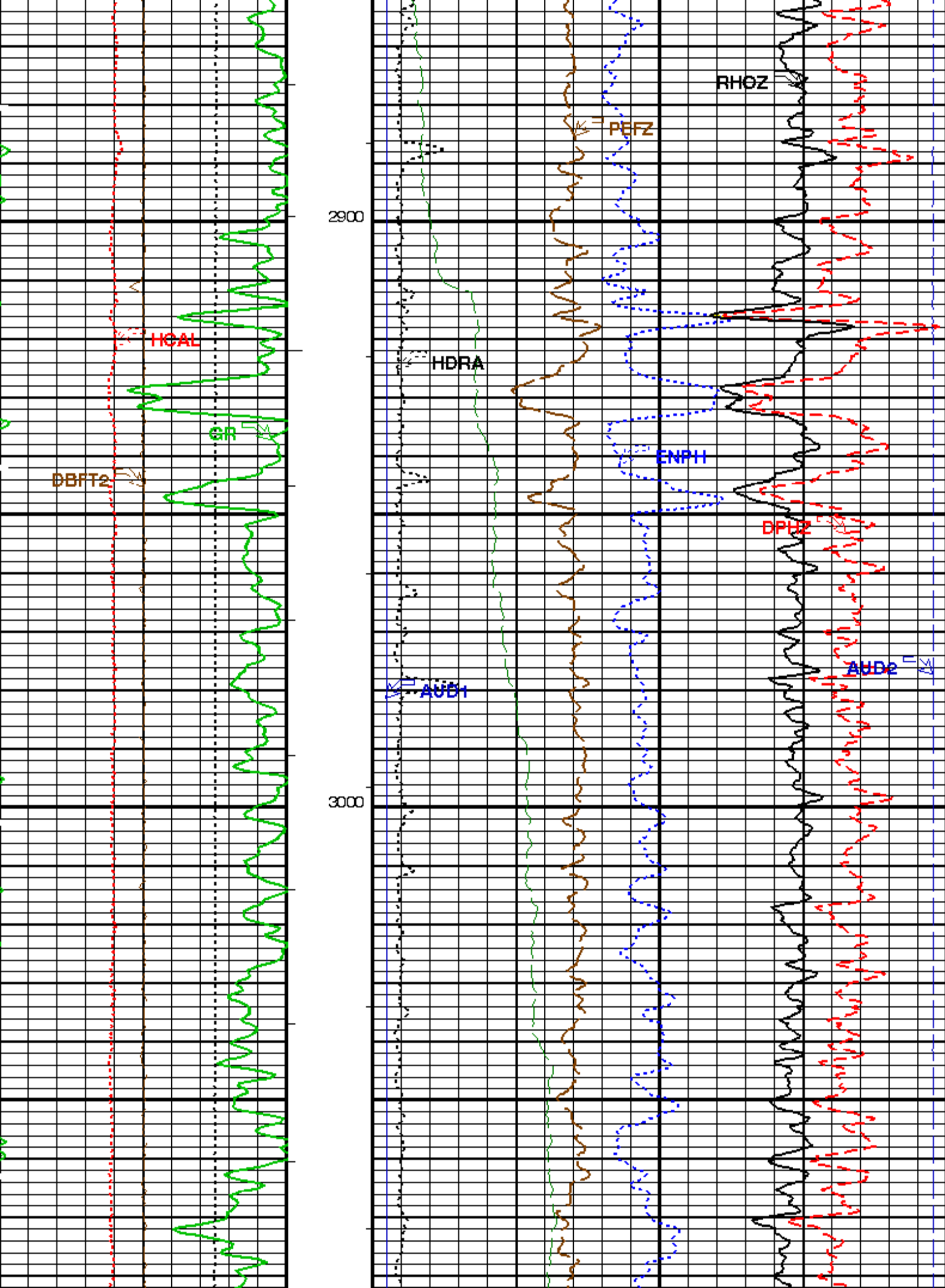
2400

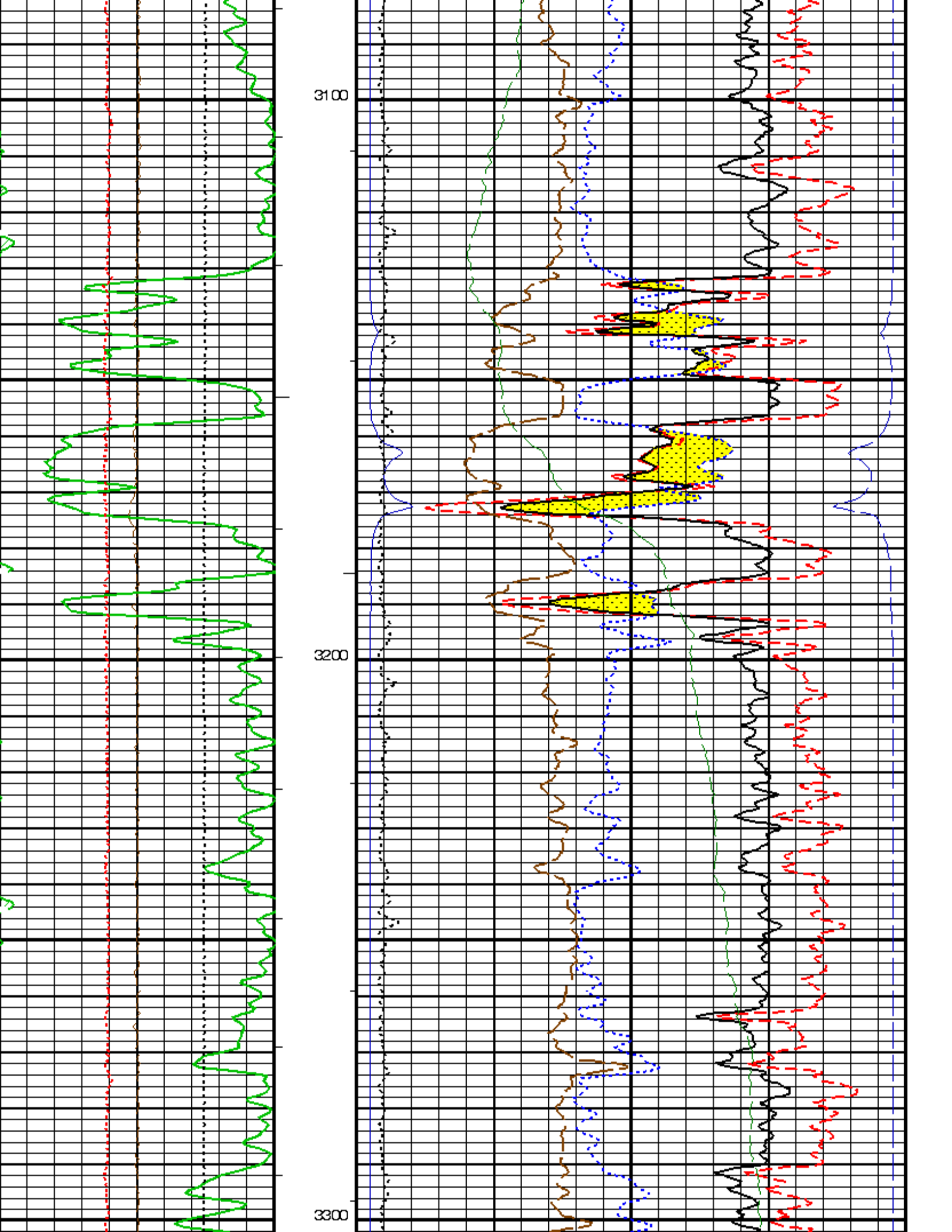


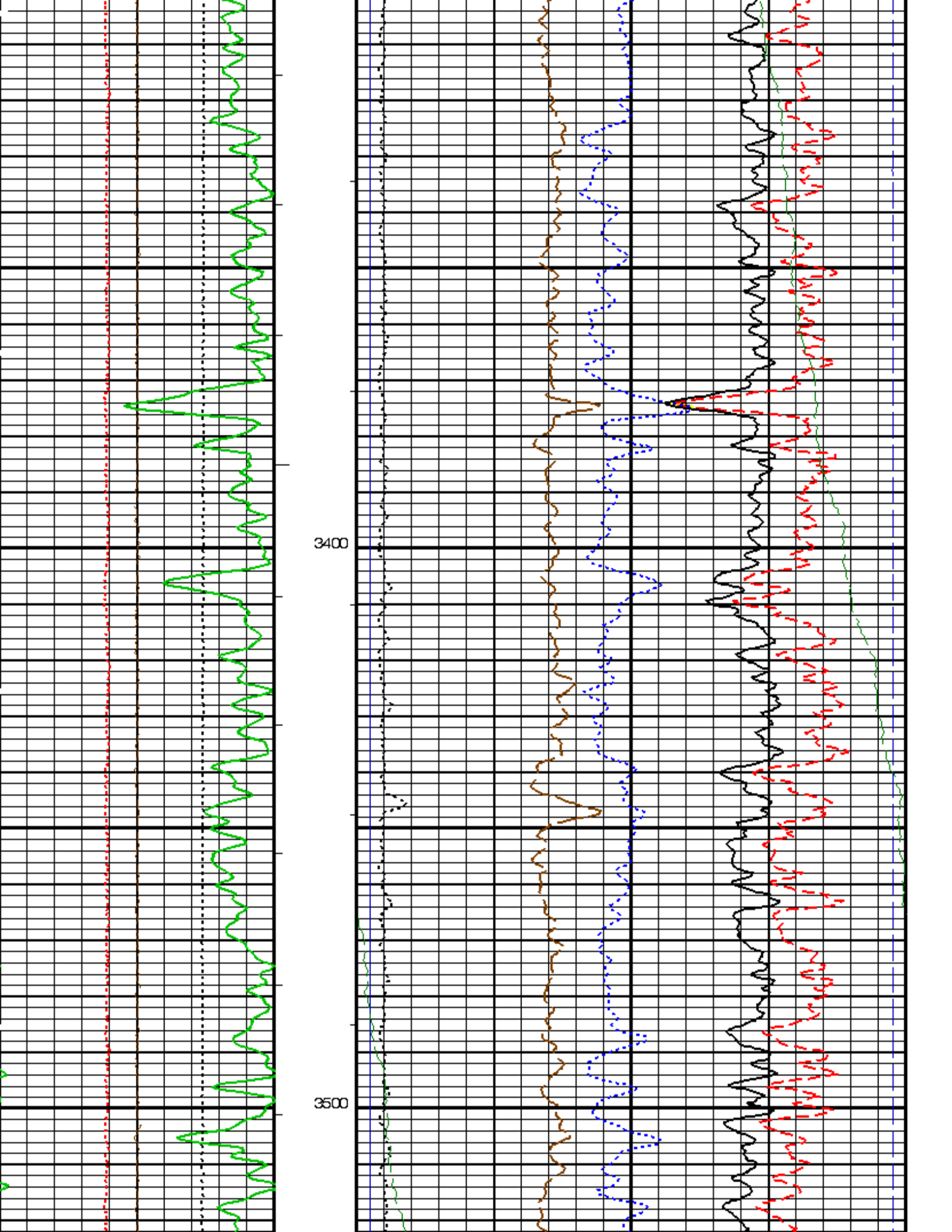
2500

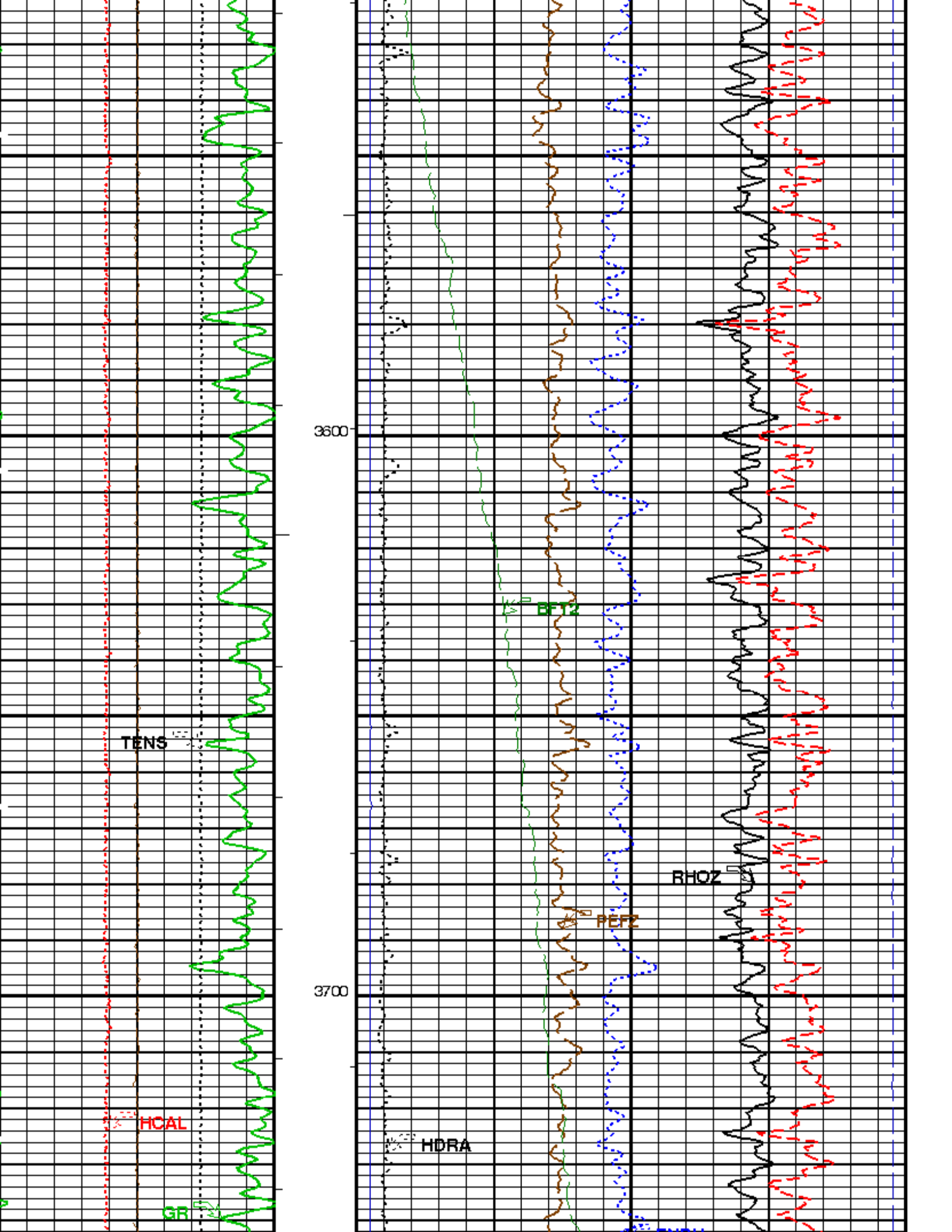
2600

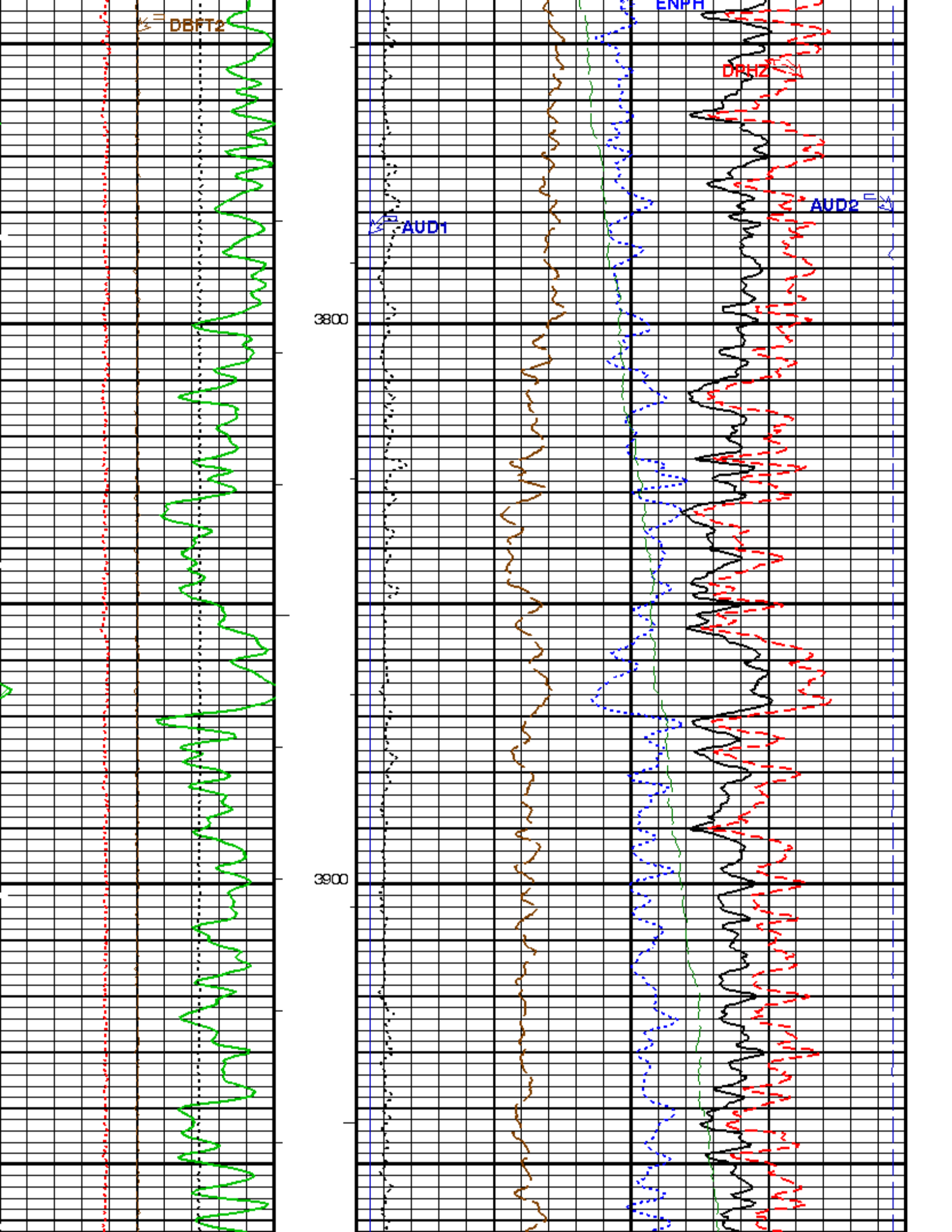


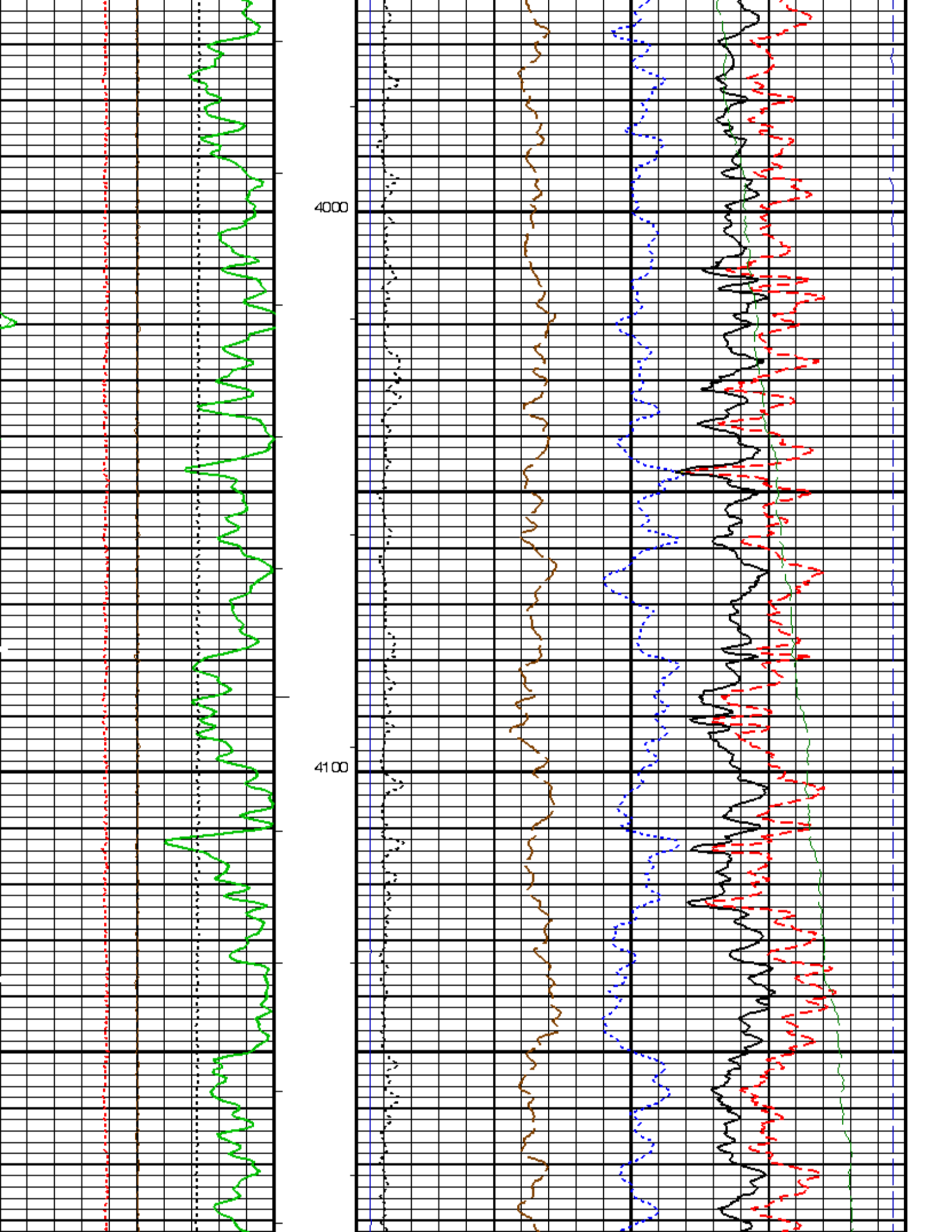


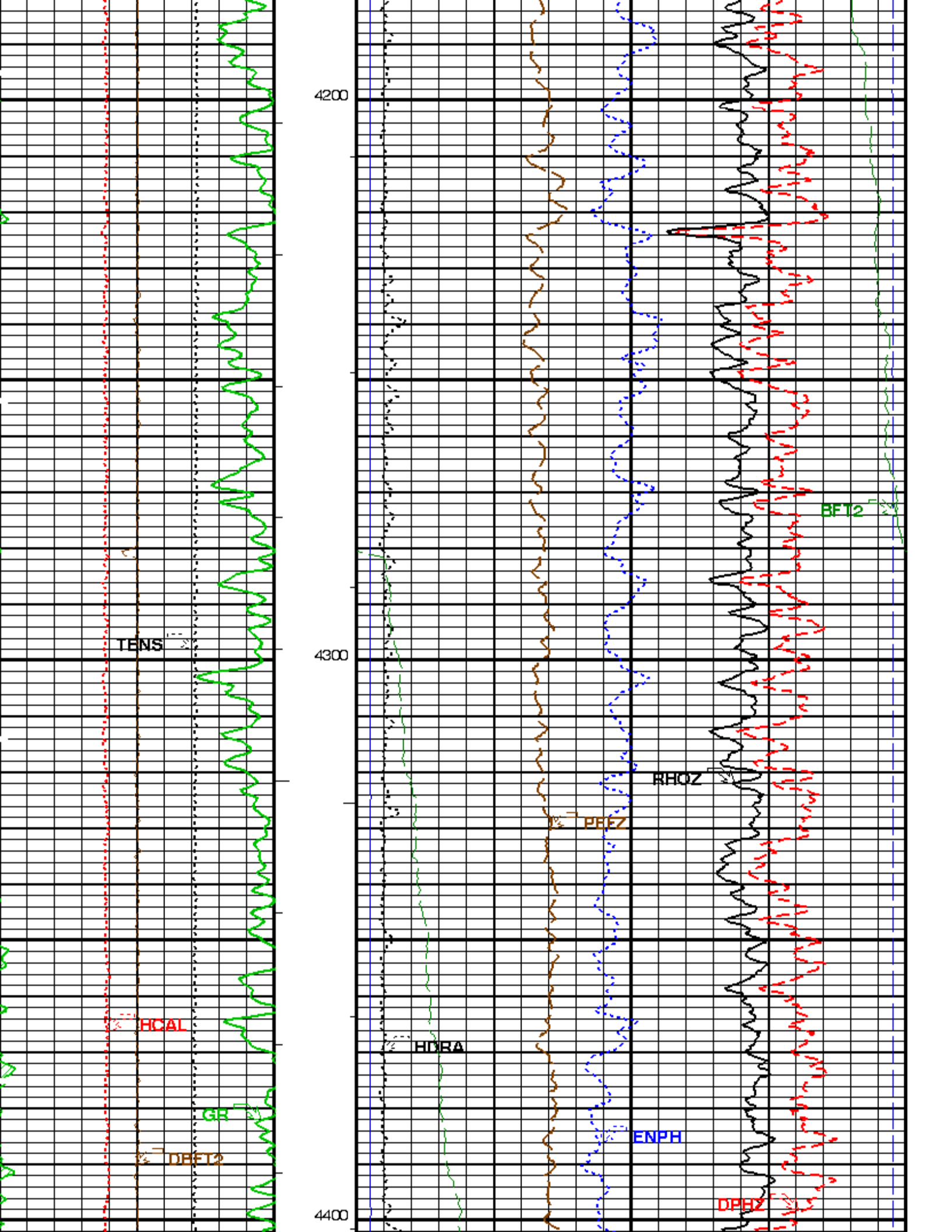


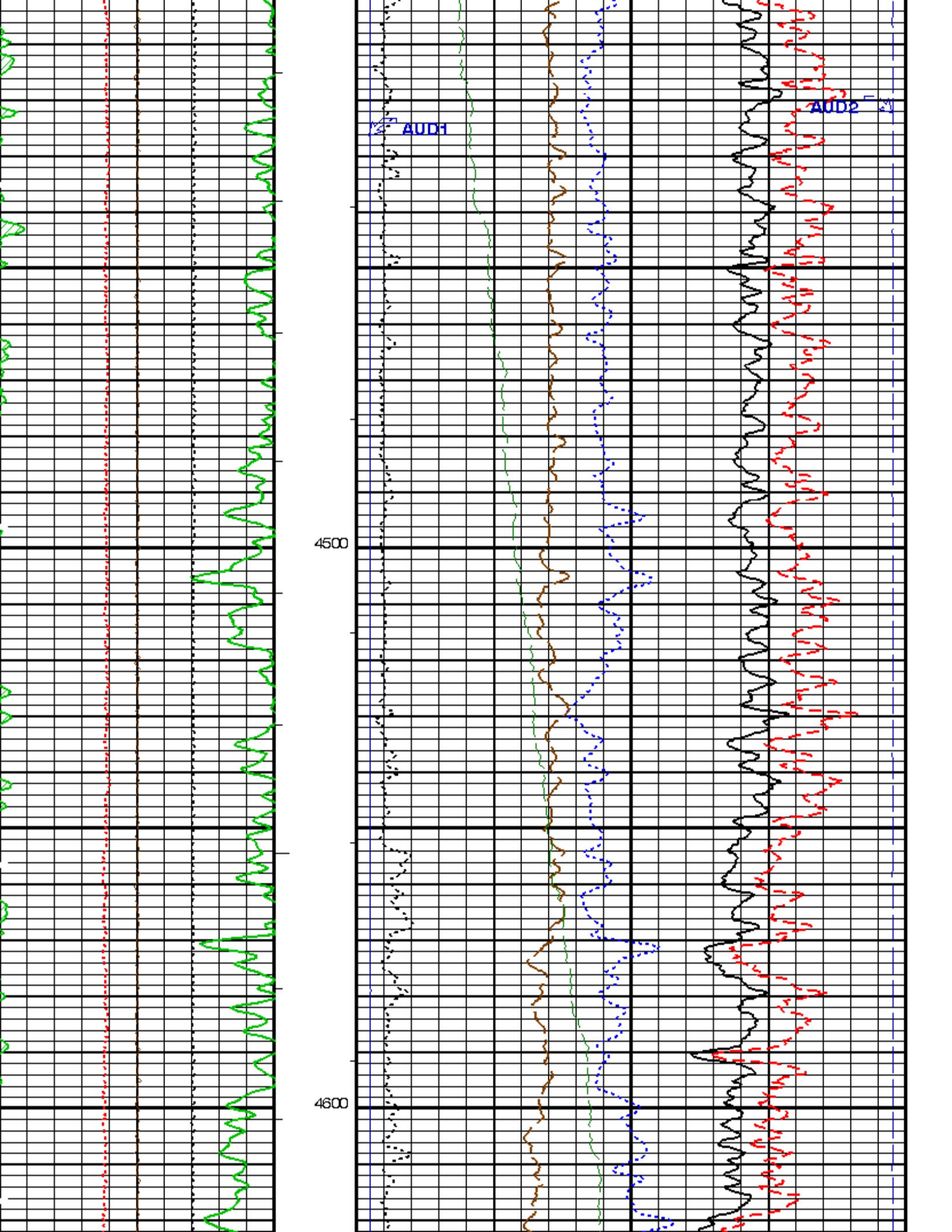


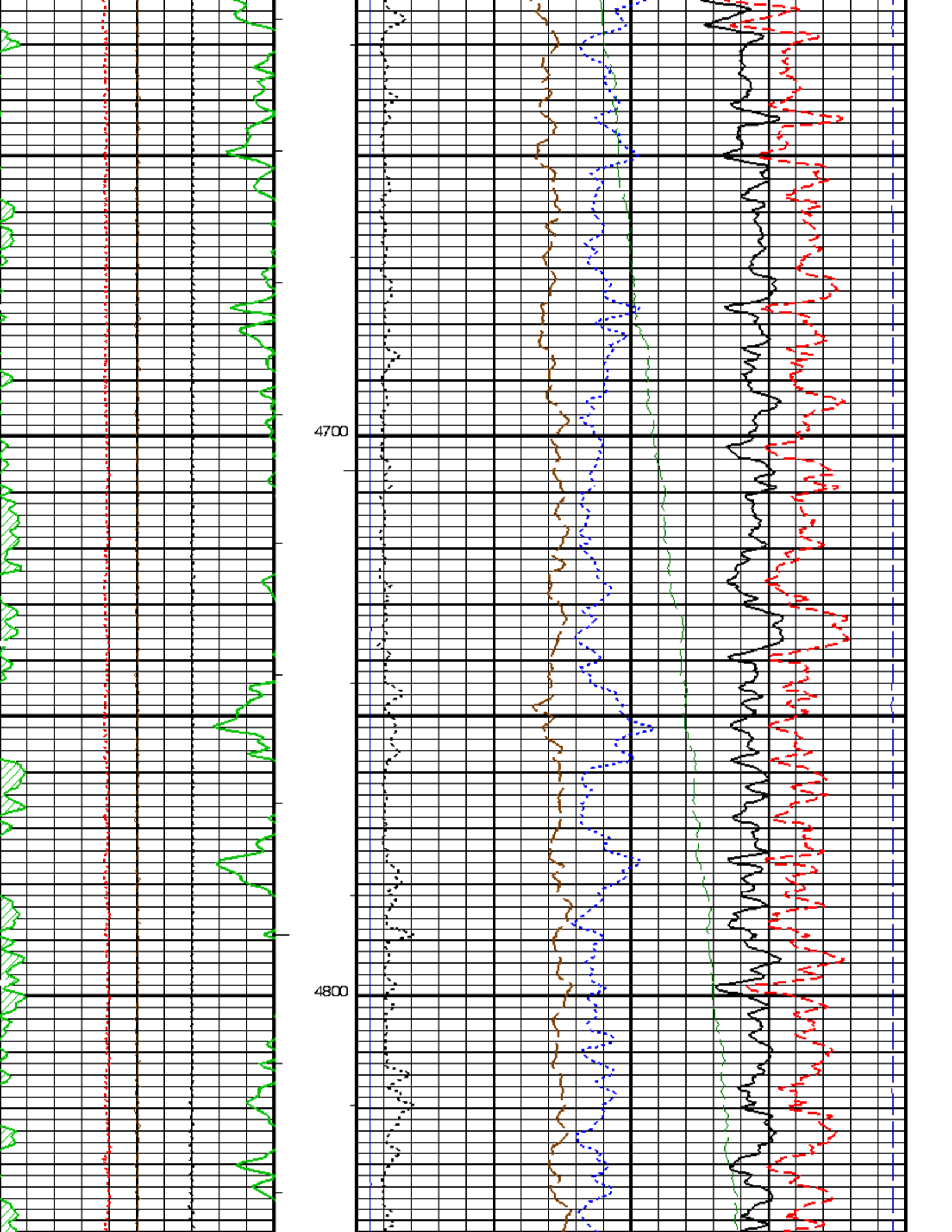


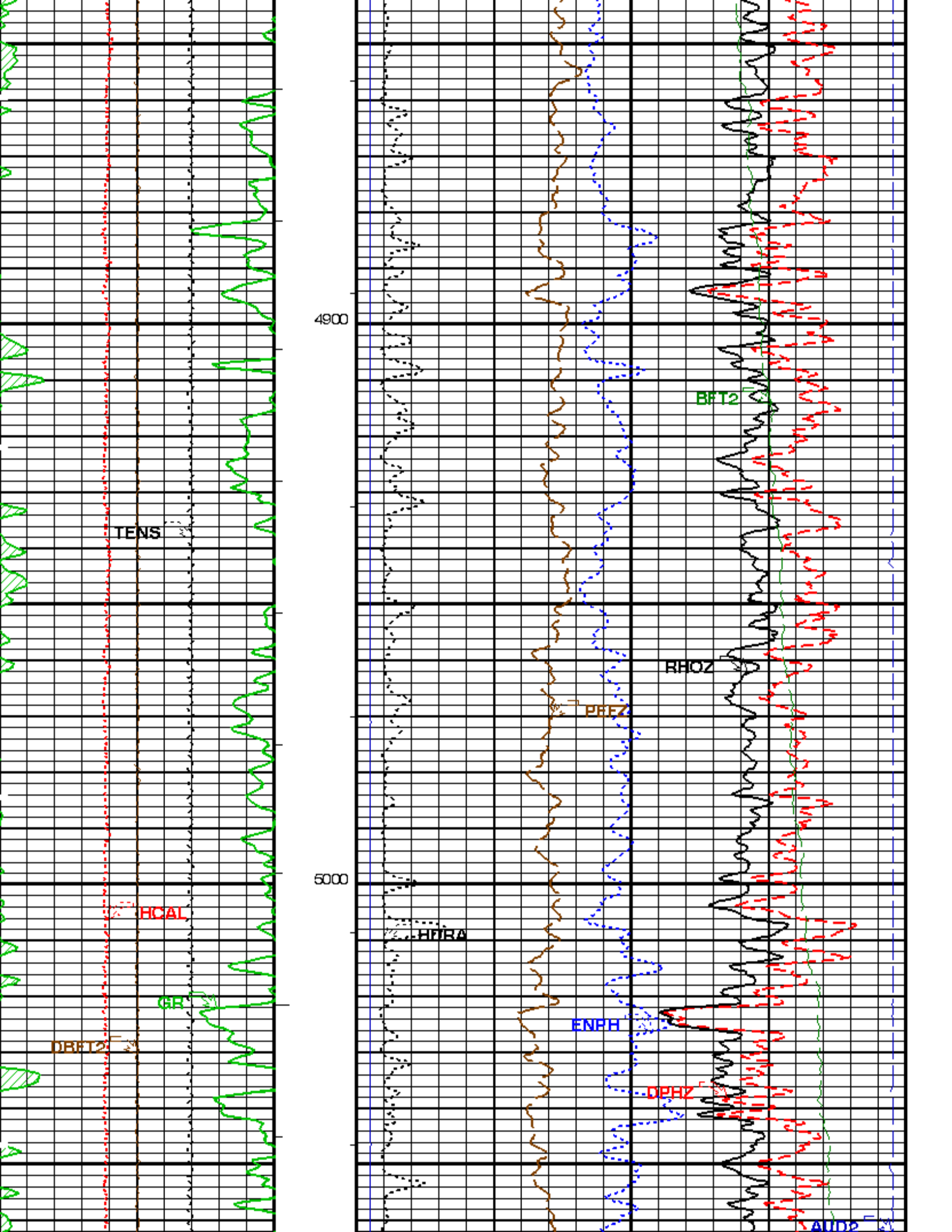


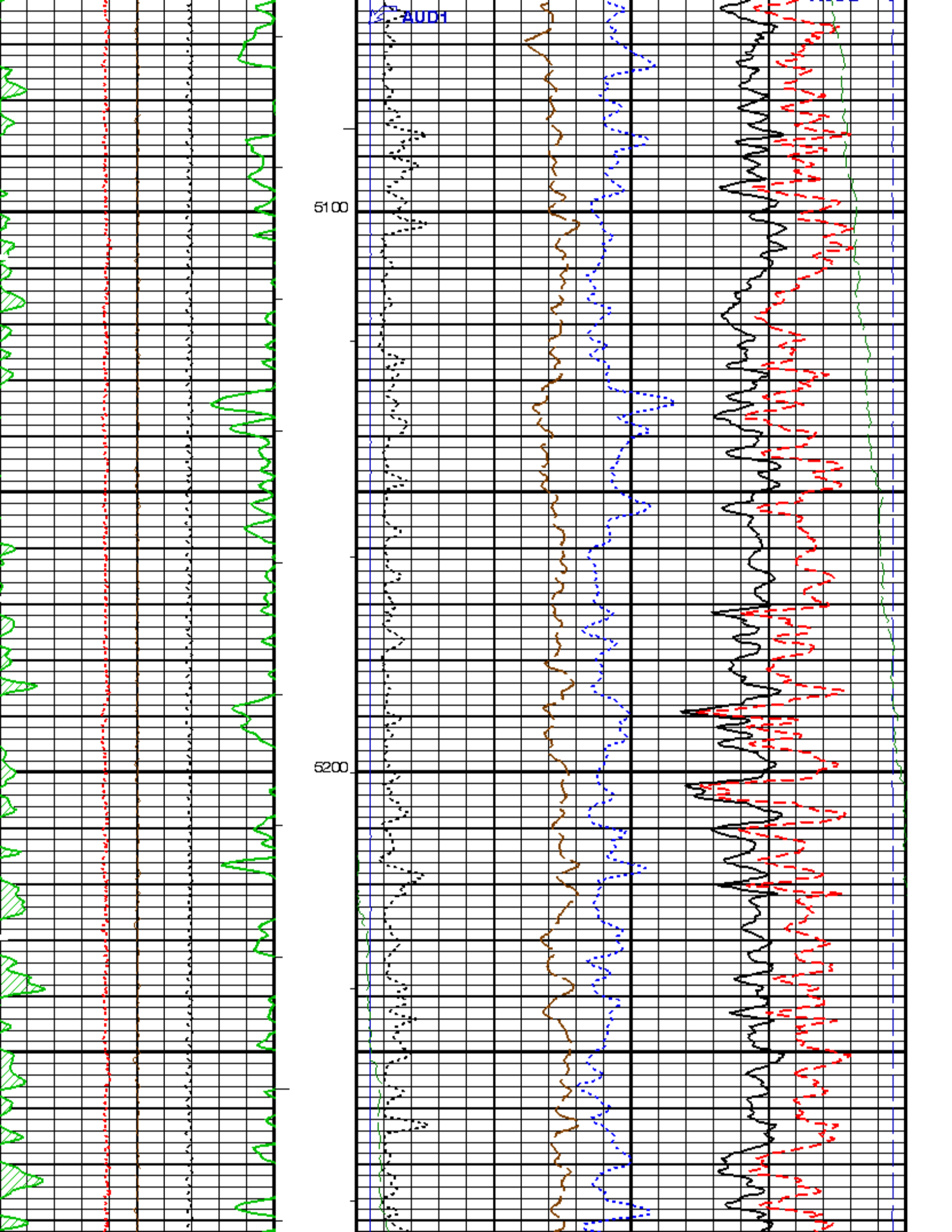


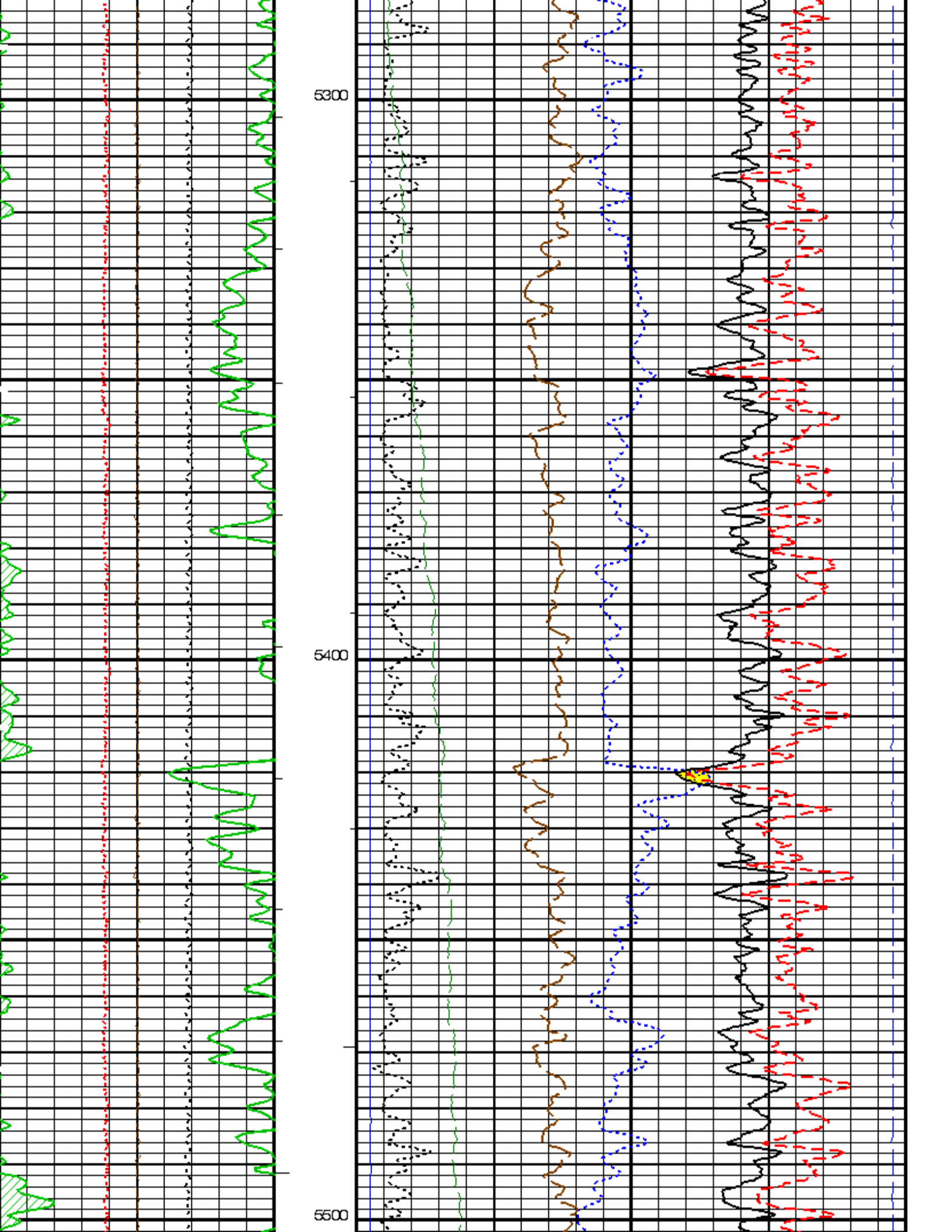


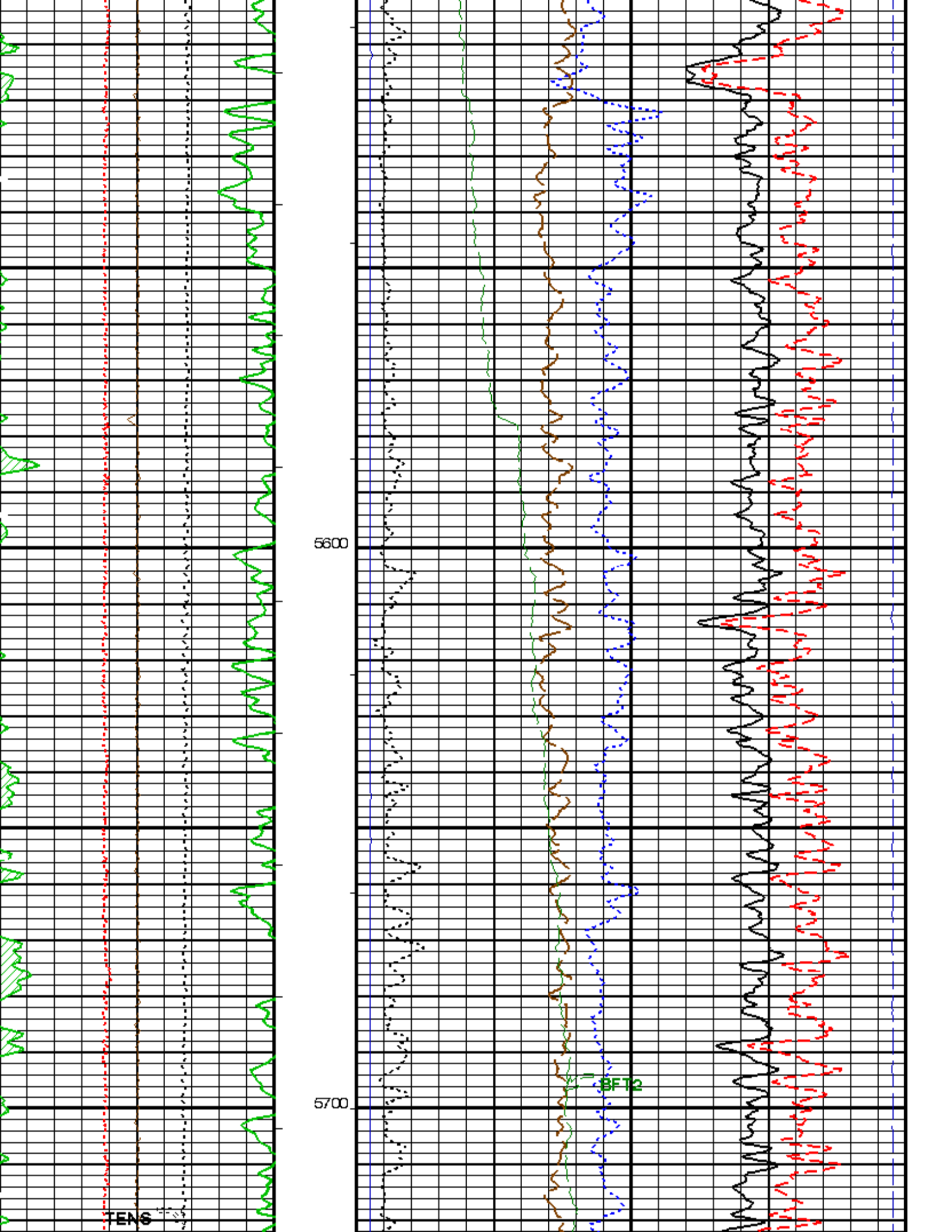


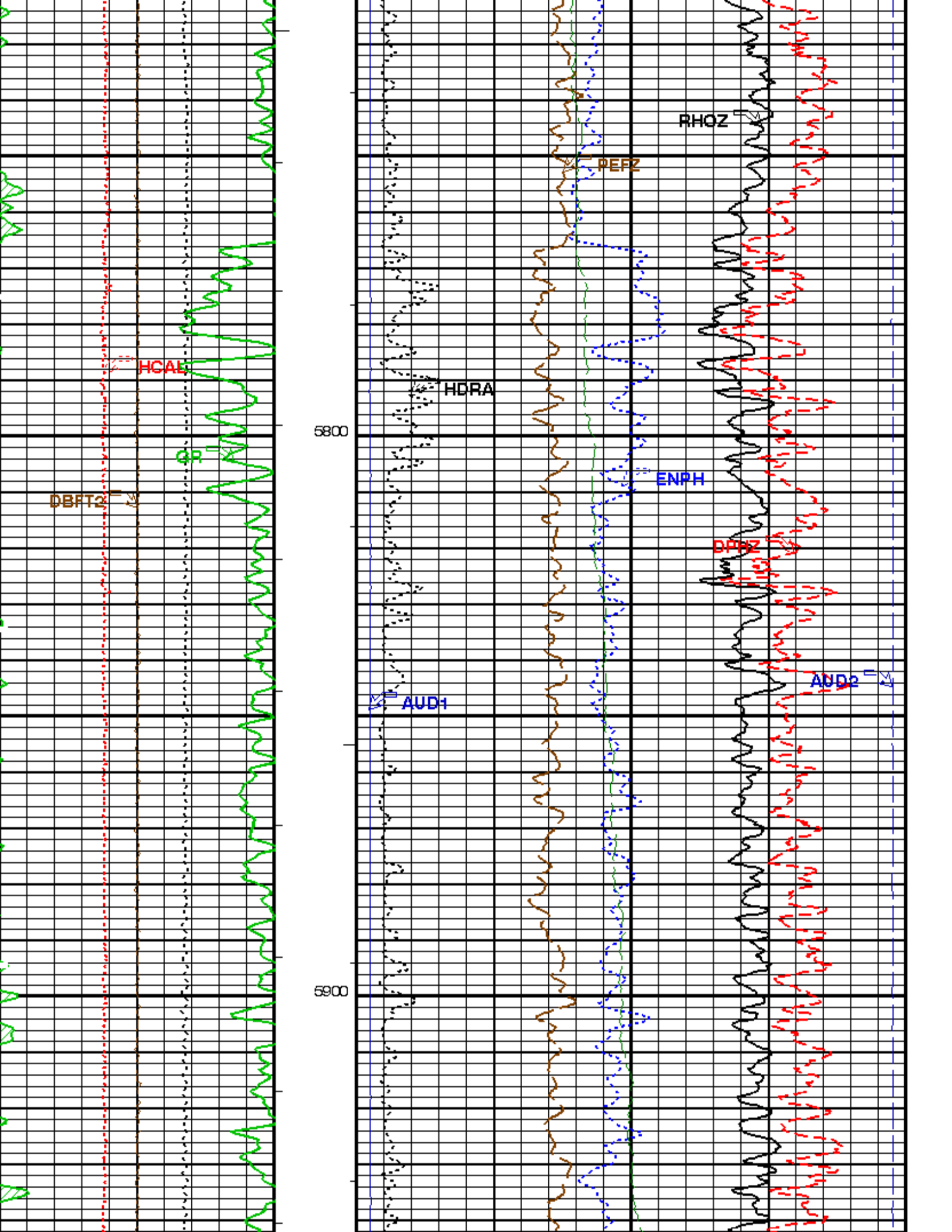


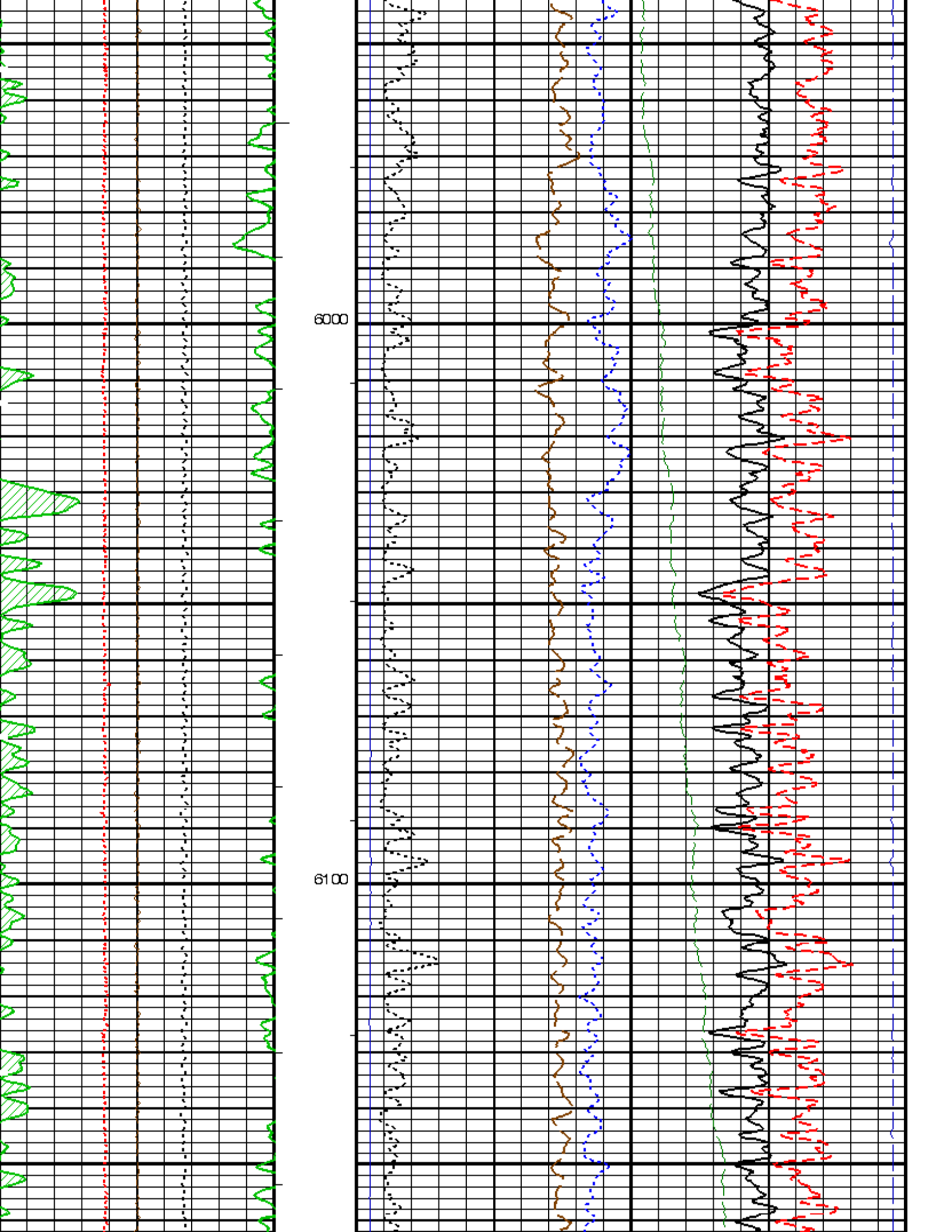


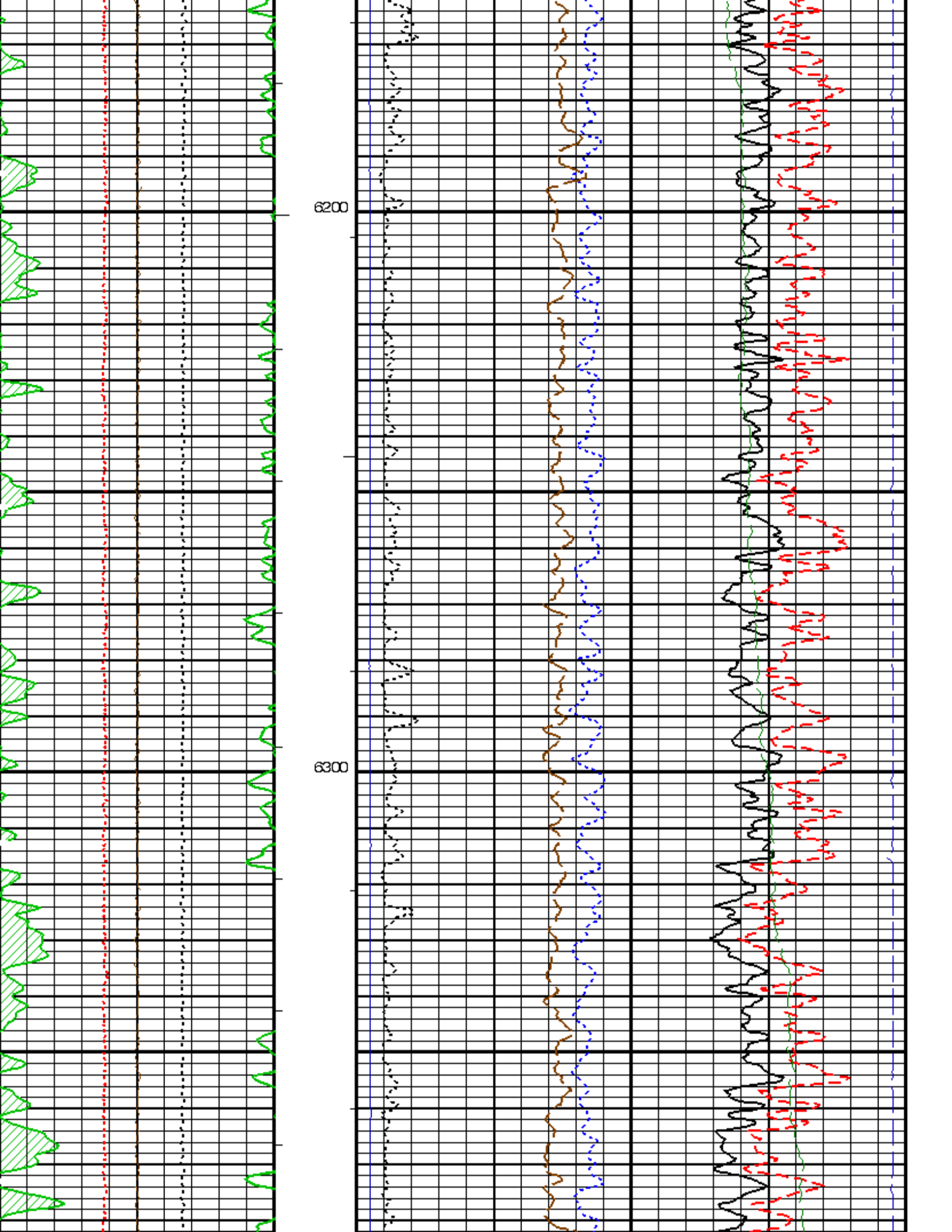


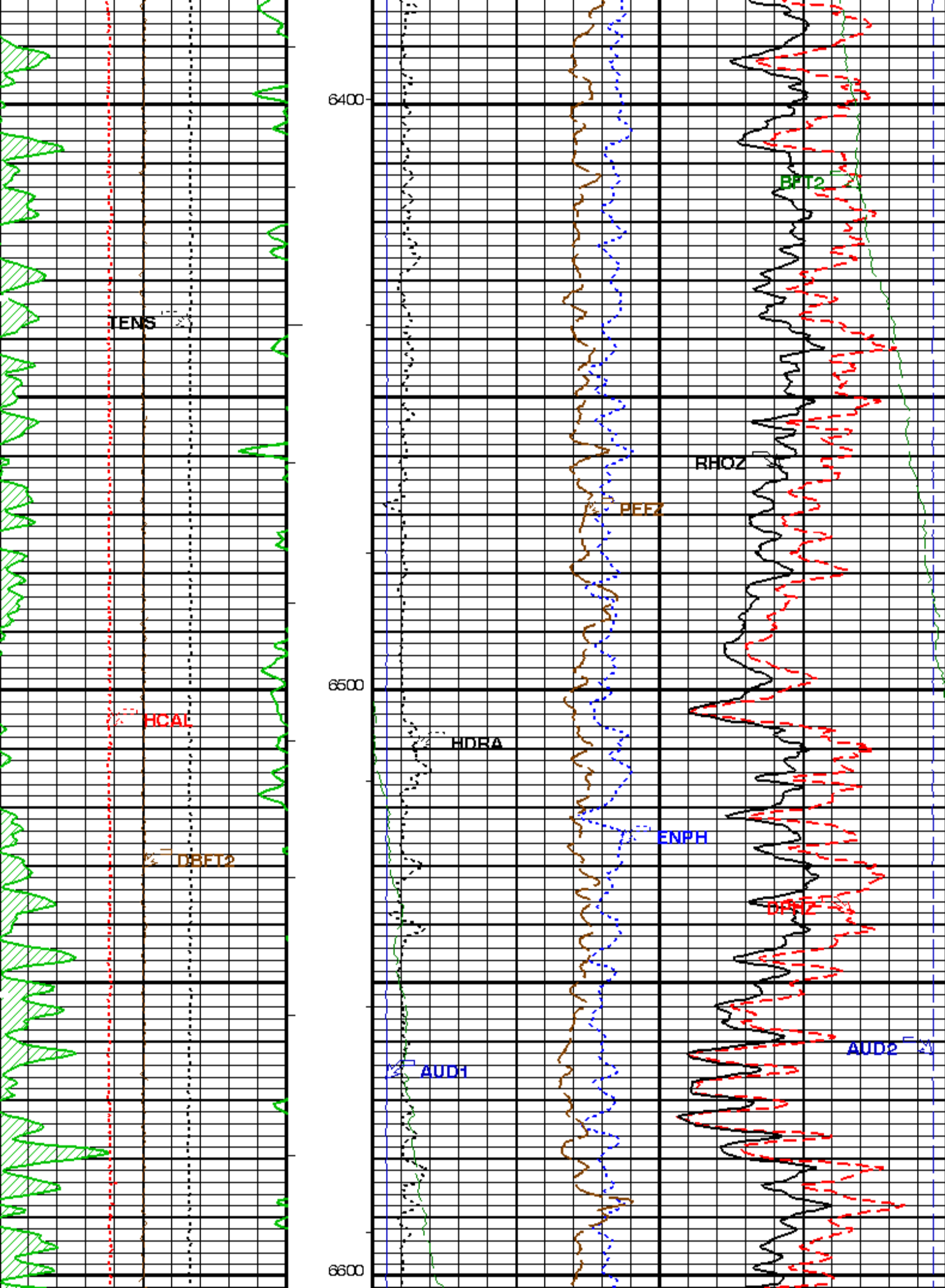


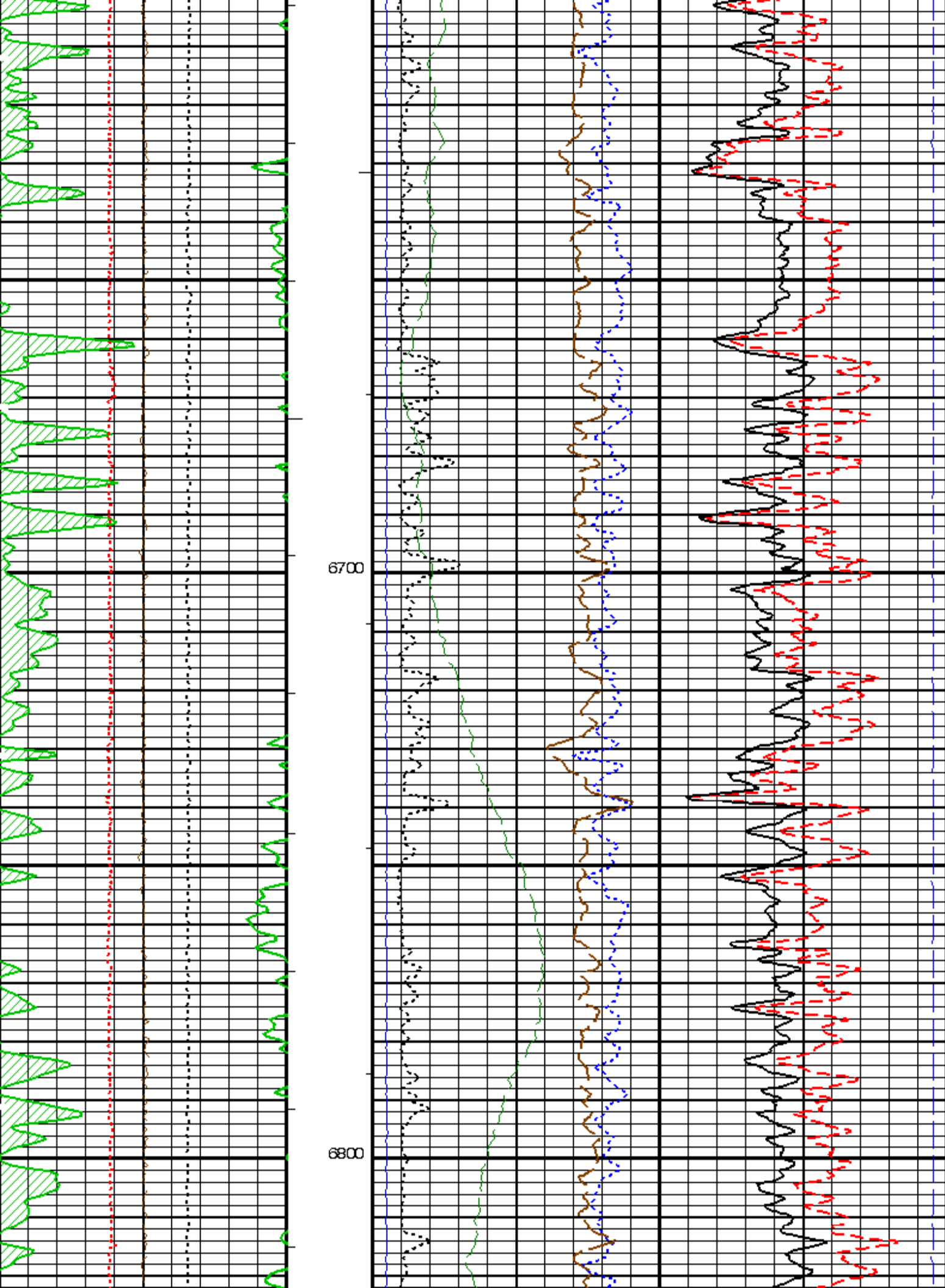


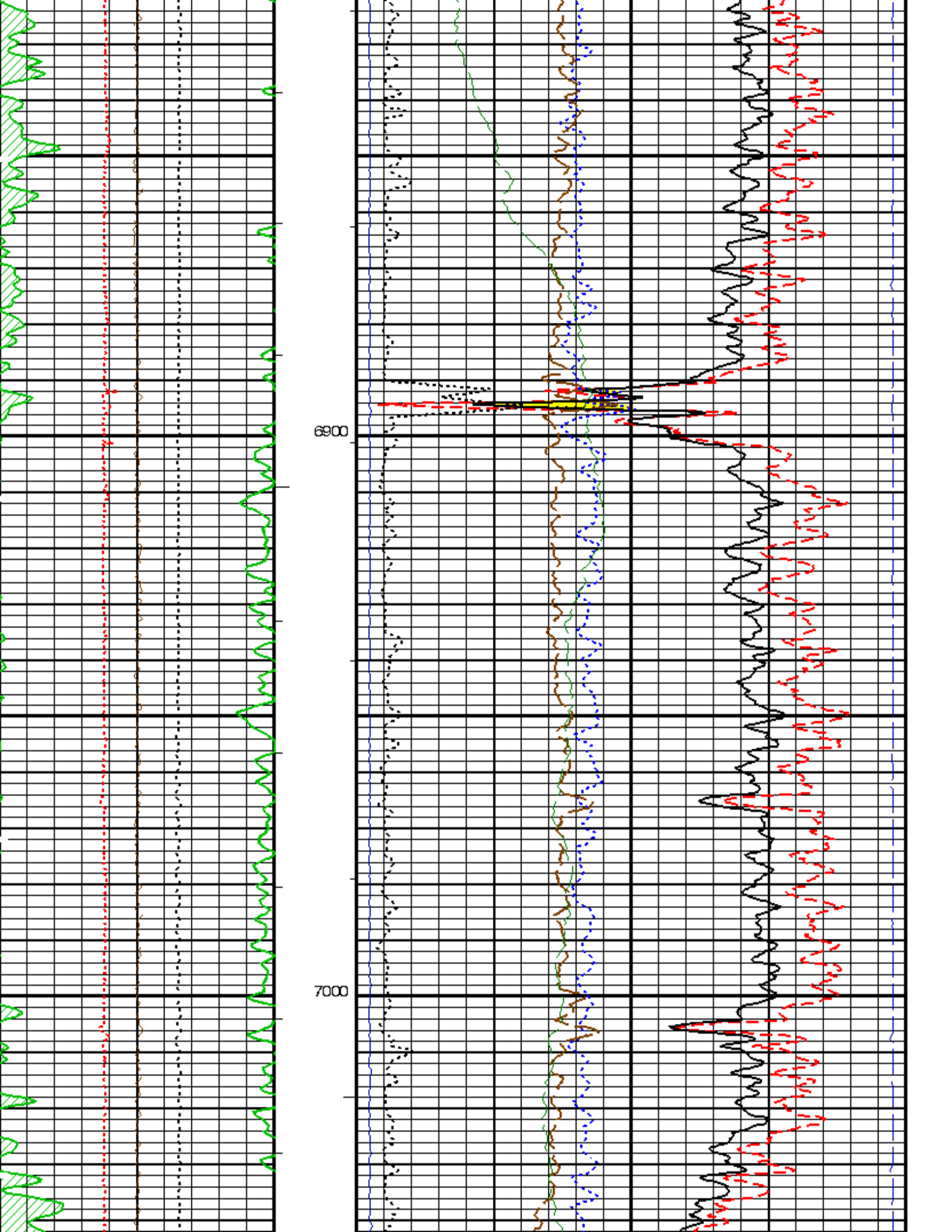


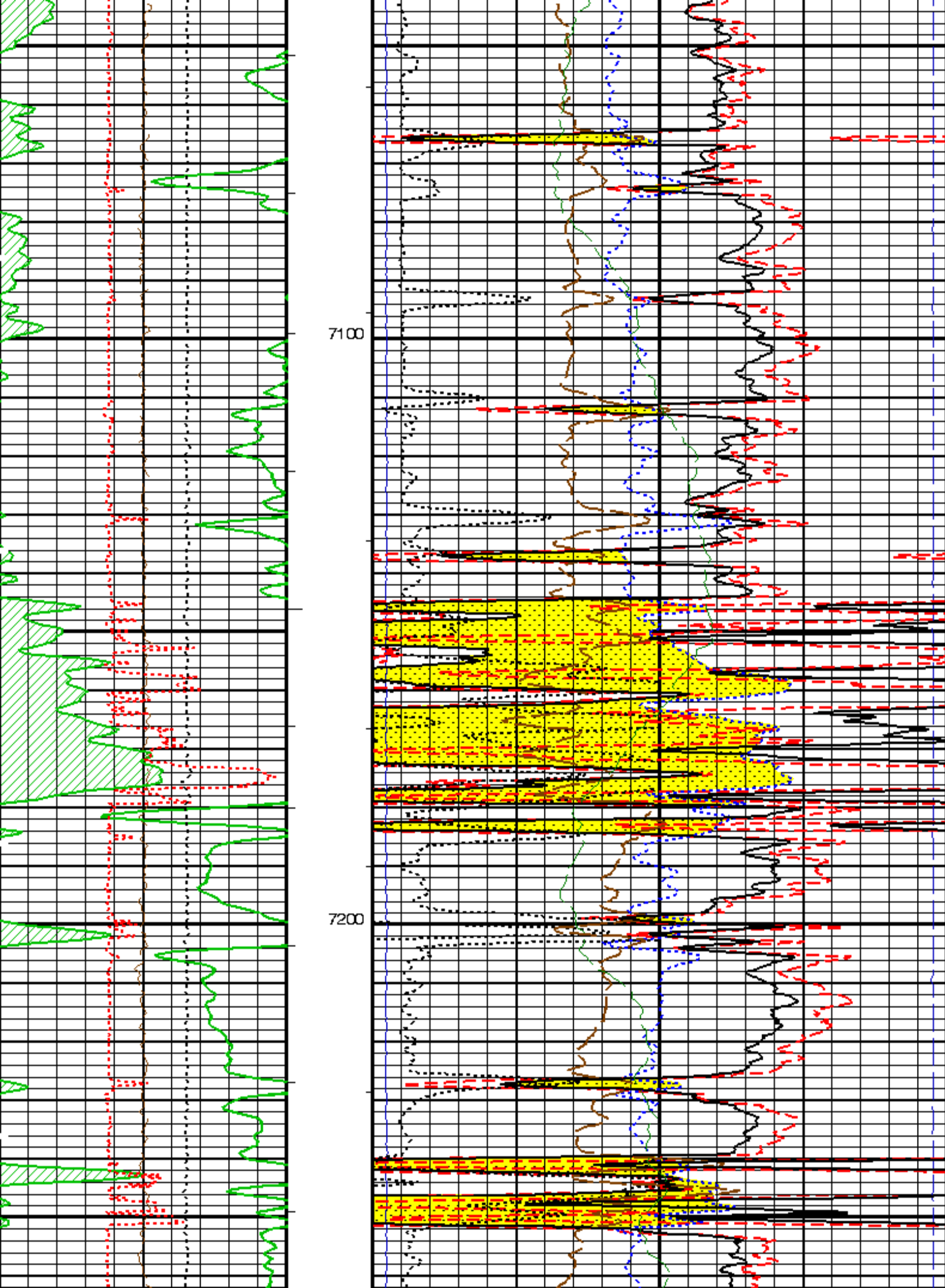


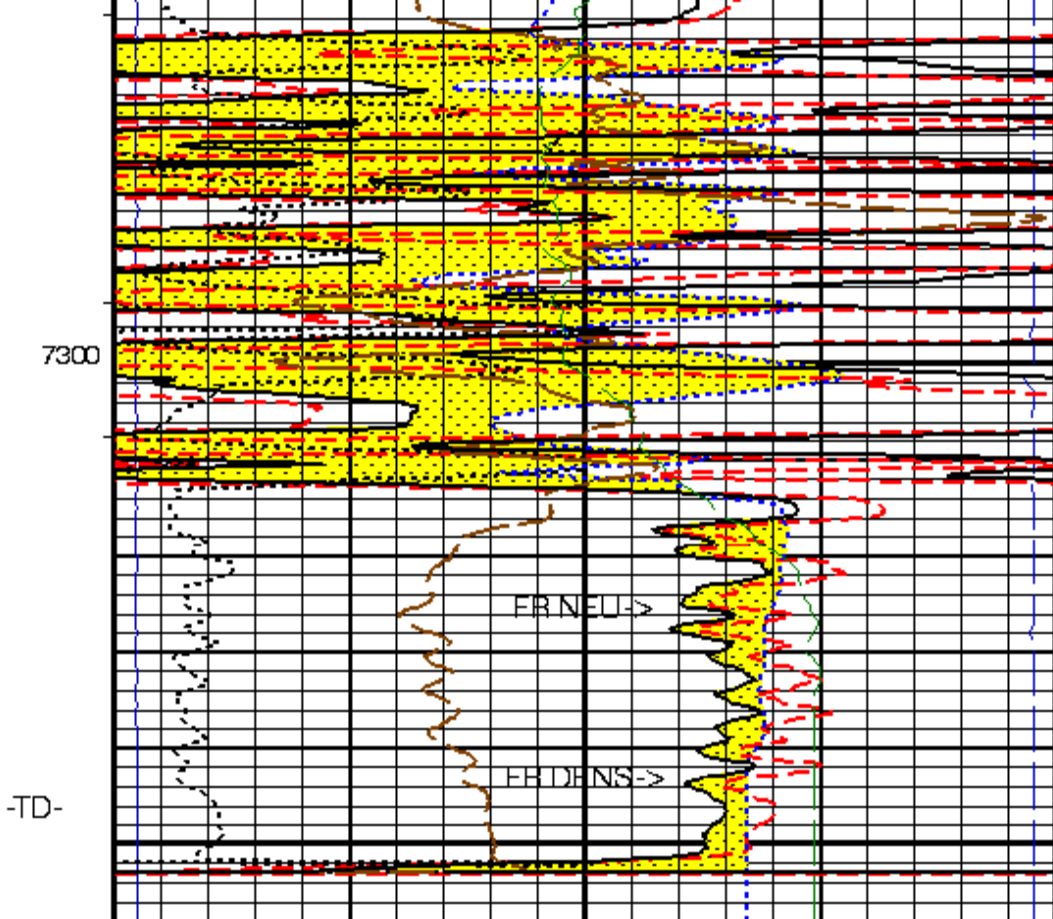
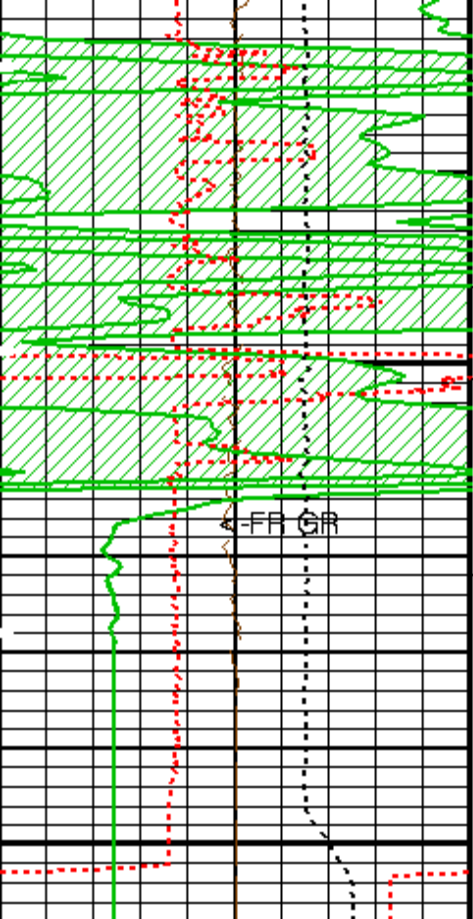












Gamma Ray (GR) (GAPI)	0	200
HILT Caliper (HCAL) (IN)	5	15
Tension (TENS) (LBF)	10000	0
GR > 200 From LHT1 to GR1		
Differential Borehole Fluid Temperature 2 (DBFT2) (DEGF)	-1	1

Audio1 (AUD1) (MV)	0	500
Audio2 (AUD2) (MV)	500	0
Std. Res. Density Porosity (DPHZ) (V/V)	0.3	-0.1
Epithermal Neutron Porosity (ENPH) (V/V)	0.3	-0.1
Density Correction (HDRA) (G/C3)	-0.05	0.45
Borehole Fluid Temperature 2 (BFT2) (DEGF)	85	90
Std. Res. Formation Pe (PEFZ) (---	0	10
Std. Res. Formation Density (RHOZ) (G/C3)	2	3
NUETRON-DENSITY CROSS OVER From RHOZ to ENPH		

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
-----------	-------------	-------

BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
HILTH-FTE: High resolution Integrated Logging Tool-DTS			
BHFL_TLD	HILT Nuclear Mud Base	AIR	
BHS	Borehole Status	OPEN	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	BS	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.68	G/C3
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
CNT-G: Compensated Neutron - G			
BHFL	Borehole Fluid Type	AIR	
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
AGDT2-AA: Acoustic Gas Detector Tool #2			
TO_AGDT2	AGDT2 Temperature Offset	0	
SGT-N: Scintillation Gamma Ray Tool - N			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	BS	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
System and Miscellaneous			
BS	Bit Size	8.750	IN
DFD	Drilling Fluid Density	0.00	LB/G
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RE COMPUTE	
TD	Total Depth	7346	FT

Format: DENSITY_5 Vertical Scale: 5" per 100' Graphics File Created: 31-Aug-2010 05:58

OP System Version: 17C0-154

AIT-M	17C0-154	HILTH-FTE	17C0-154
CNT-G	SPC-3867-NUCL	DTA-A	SKK-3882-EDT/CB
AGDT-AA	17C0-154	AGDT2-AA	17C0-154
SGT-N	17C0-154	DTC-H	17C0-154

Input DLIS Files

DEFAULT	MERGE_AIT_AGDT_TLD_020GUP	FN:1	PRODUCER	31-Aug-2010 05:57	7358.0 FT	19.0 FT
---------	---------------------------	------	----------	-------------------	-----------	---------

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_021PUP	FN:17	PRODUCER	31-Aug-2010 05:58
---------	-------------------------	-------	----------	-------------------

REPEAT PASS
5 INCHES = 100 FEET

MAXIS Field Log

Input DLIS Files

DEFAULT	MERGE_AIT_AGDT_014	FN:1	PRODUCER	31-Aug-2010 05:46	7360.5 FT	7086.5 FT
---------	--------------------	------	----------	-------------------	-----------	-----------

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_018PUP FN:15 PRODUCER 31-Aug-2010 05:51 7360.5 FT 7087.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 126.74 F3
 Cement Volume = 84.01 F3 (assuming 5.50 IN casing O.D.)
 Computed from 7346.0 FT to 7087.5 FT using data channel(s) HCAL

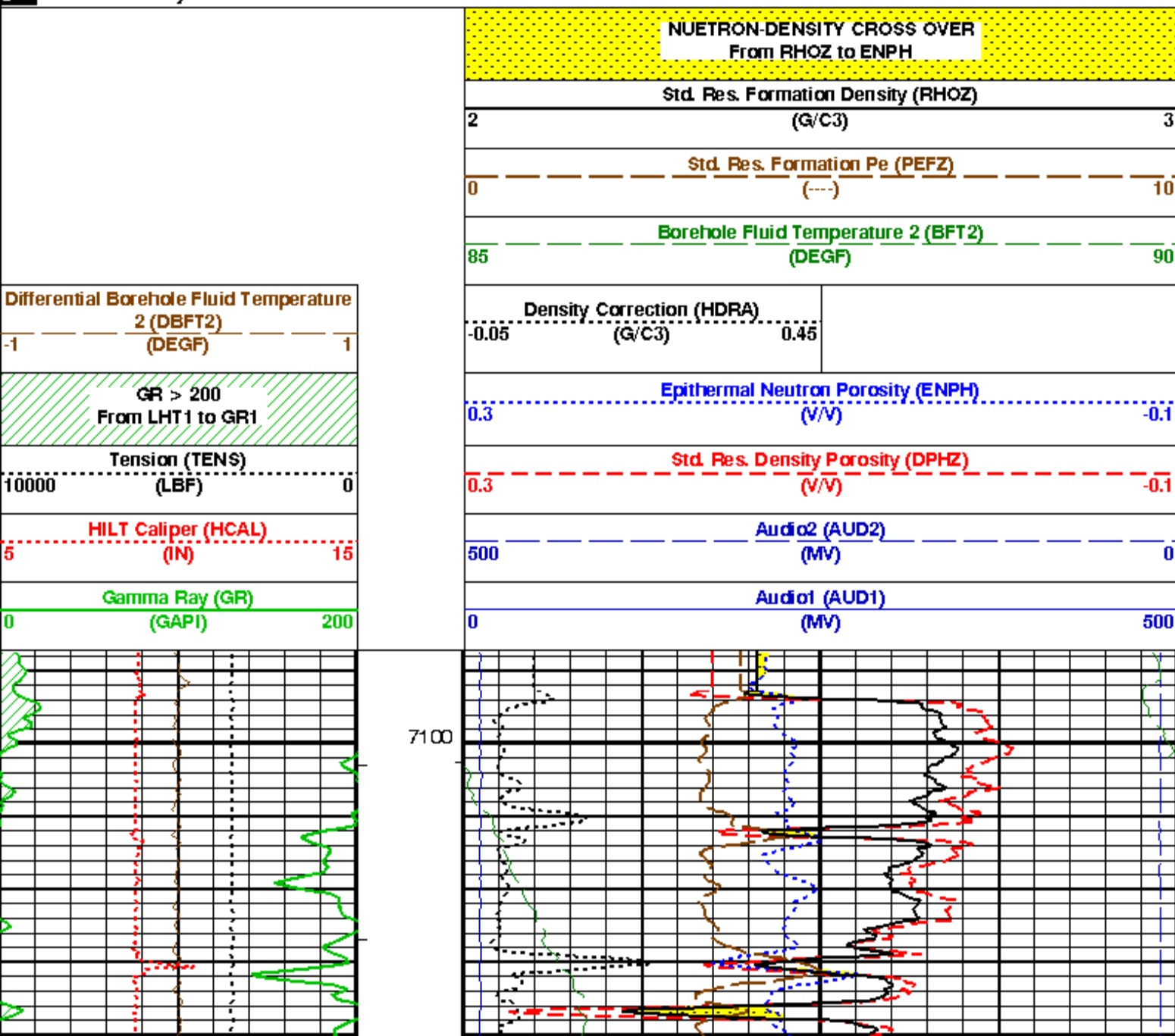
OP System Version: 17C0-154

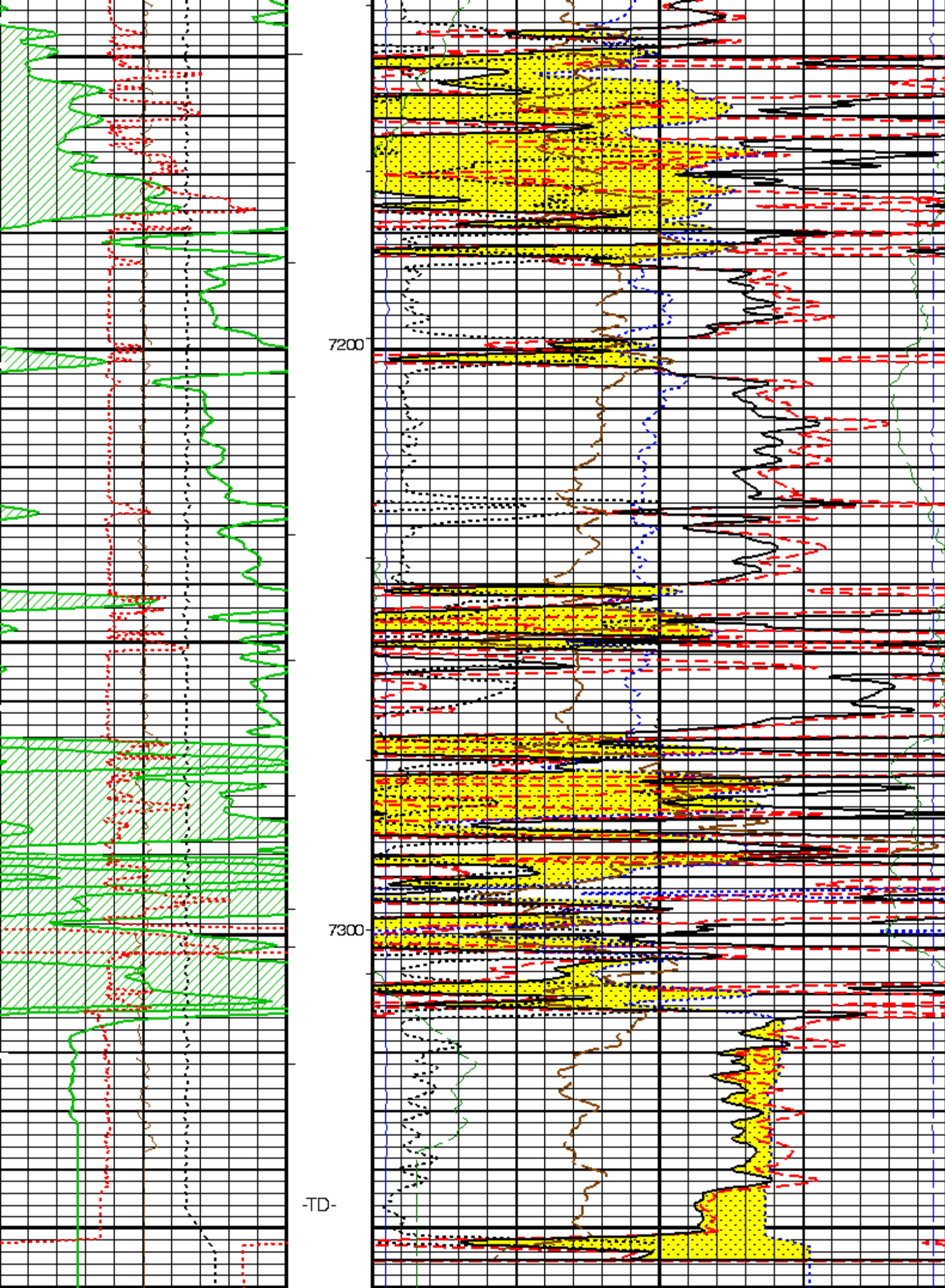
AIT-M	17C0-154	HILTH-FTB	17C0-154
CNT-G	SPC-3867-NUCL	DTA-A	SKK-3882-EDTCB
AGDT-AA	17C0-154	AGDT2-AA	17C0-154
SGT-N	17C0-154	DTC-H	17C0-154

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S





Gamma Ray (GR) (GAPI) 200	Audio1 (AUD1) (MV) 500
HILT Caliper (HCAL) (IN) 15	Audio2 (AUD2) (MV) 0
Tension (TENS) (LBF) 10000 0	Std. Res. Density Porosity (DPHZ) (V/V) 0.3 -0.1
GR > 200 From LHT1 to GR1	Epithermal Neutron Porosity (ENPH) (V/V) 0.3 -0.1
Differential Borehole Fluid Temperature 2 (DBFT2) (DEGF) -1 1	Density Correction (HDRA) (G/C3) -0.05 0.45
	Borehole Fluid Temperature 2 (BFT2) (DEGF) 85 90
	Std. Res. Formation Pe (PEFZ) (---) 0 10
	Std. Res. Formation Density (RHOZ) (G/C3) 2 3
	NUETRON-DENSITY CROSS OVER From RHOZ to ENPH

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
 - Integrated Cement Volume Minor Pip Every 10 F3
 - Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
AIT-M: Array Induction Tool - M		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL_TLD	HILT Nuclear Mud Base	AIR
BHS	Borehole Status	OPEN
DHC	Density Hole Correction	BS
FD	Fluid Density	1 G/C3
GCLF	Germany Coal-like Formation Option	NO
GCSE	Generalized Caliper Selection	HCAL
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MDEN	Matrix Density	2.68 G/C3
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	HiRes
NSAR	HRDD Depth Sampling Rate	1 IN
CNT-G: Compensated Neutron - G		
BHFL	Borehole Fluid Type	AIR
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
AGDT2-AA: Acoustic Gas Detector Tool #2		
TO_AGDT2	AGDT2 Temperature Offset	0
SGT-N: Scintillation Gamma Ray Tool - N		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
FCD	Future Casing (Outer) Diameter	5.5 IN
GCSE	Generalized Caliper Selection	HCAL
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
System and Miscellaneous		
BS	Bit Size	8.750 IN
DFD	Drilling Fluid Density	0.00 LB/G

OP System Version: 17C0-154

AIT-M	17C0-154	HILTH-FTB	17C0-154
CNT-G	SPC-3867-NUCL	DTA-A	SKK-3882-EDT CB
AGDT-AA	17C0-154	AGDT2-AA	17C0-154
SGT-N	17C0-154	DTC-H	17C0-154

Input DLIS Files

DEFAULT	MERGE_AIT_AGDT_014	FN:1	PRODUCER	31-Aug-2010 05:46	7360.5 FT	7086.5 FT
---------	--------------------	------	----------	-------------------	-----------	-----------

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_018PUP	FN:15	PRODUCER	31-Aug-2010 05:51		
---------	-------------------------	-------	----------	-------------------	--	--



CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary							
Before: 29-Aug-2010 12:51							
BS Window Ratio	0.7327	N/A	0.7342	N/A	N/A	N/A	
BS Window Sum	32980	N/A	33070	N/A	N/A	N/A	CPS
SS Window Ratio	0.4736	N/A	0.4740	N/A	N/A	N/A	
SS Window Sum	12260	N/A	12240	N/A	N/A	N/A	CPS
LS Window Ratio	0.2979	N/A	0.2933	N/A	N/A	N/A	
LS Window Sum	1376	N/A	1370	N/A	N/A	N/A	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations							
Before: 29-Aug-2010 12:51							
BS PM High Voltage (Command)	1682	N/A	1671	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1428	N/A	1424	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1742	N/A	1737	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration							
Before: 29-Aug-2010 12:51							
BS Crystal Resolution	11.30	N/A	11.14	N/A	N/A	N/A	%
SS Crystal Resolution	8.353	N/A	8.394	N/A	N/A	N/A	%
LS Crystal Resolution	9.397	N/A	9.244	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration							
Before: 29-Aug-2010 12:41							
Raw B0 Resistivity	3875	N/A	3860	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3807	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3800	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration							
Before: 29-Aug-2010 12:38							
HILT Caliper Zero Measurement	8.000	N/A	7.721	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	11.97	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results							

Master: 2-Aug-2010 16:33							
Rho Aluminum	2.596	2.595	-	-	-	-	G/C3
Rho Magnesium	1.686	1.692	-	-	-	-	G/C3
Pe Aluminum	2.570	2.534	-	-	-	-	
Pe Magnesium	2.650	2.633	-	-	-	-	

High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary

Master: 2-Aug-2010 16:33

BS Average Deviation	0	0.2406	-	-	-	-	%
BS Max Deviation	0	0.5527	-	-	-	-	%
SS Average Deviation	0	0.6666	-	-	-	-	%
SS Max Deviation	0	1.485	-	-	-	-	%
LS Average Deviation	0	0.8340	-	-	-	-	%
LS Max Deviation	0	1.974	-	-	-	-	%

Compensated Neutron - G Wellsite Calibration - Zero Measurement

Master: 25-Jul-2010 14:21 Before: 29-Aug-2010 12:49

CNTC Background	1.000	0.5165	0	N/A	N/A	N/A	OPS
CFTC Background	0	1.033	1.044	N/A	N/A	N/A	OPS
CNEC Background	1.000	0	0	N/A	N/A	N/A	OPS
CFEC Background	0	0	0	N/A	N/A	N/A	OPS

Compensated Neutron - G Wellsite Calibration - Jig Measurement

Master: 25-Jul-2010 15:00 Before: 29-Aug-2010 13:00

CNTC Jig	2762	2762	2796	N/A	N/A	N/A	OPS
CFTC Jig	1385	1385	1360	N/A	N/A	N/A	OPS
CNTC/CFTC (Jig)	1.994	1.994	2.056	N/A	N/A	N/A	
CNEC Jig	646.1	646.1	647.9	N/A	N/A	N/A	OPS
CFEC Jig	686.7	686.7	687.4	N/A	N/A	N/A	OPS
CNEC/CFEC (Jig)	0.9409	0.9409	0.9425	N/A	N/A	N/A	

Compensated Neutron - G Master Calibration - Tank Measurement

Master: 25-Jul-2010 14:49

Thermal Near Corr. (Tank)	6031	5754	-	-	-	-	OPS
Thermal Far Corr. (Tank)	2793	2460	-	-	-	-	OPS
CNTC/CFTC (Tank)	2.159	2.339	-	-	-	-	
Epi. Near Corr. (Tank)	3304	2888	-	-	-	-	OPS
Epi. Far Corr. (Tank)	1235	1201	-	-	-	-	OPS
CNEC/CFEC (Tank)	2.675	2.405	-	-	-	-	

Scintillation Gamma Ray Tool - N Wellsite Calibration - Detector Calibration

Before: 29-Aug-2010 12:38

Gamma Ray (Jig - Bkg)	154.8	N/A	154.8	N/A	N/A	14.08	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

The GLS-VJ source activity is acceptable.

The CNT Master Calibration Was Done With The Following Parameters :

NCT-B Water Temperature	71.0	DEGF.
Thermal Housing Size	3.373	IN.
Epithermal Housing Size	3.373	IN.

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:

HILT high-Resolution Mechanical Sonde	HRMS - H	4809
HILT Rxo Gamma-ray Device	HRGD - H	4882
HILT Micro Cylindrically Focused Log Dev	MCFL - H	
GR Logging Source	GLS - VJ	5430
HILT High Res. Control Cartridge	HRCC - H	4317
HILT HTBC DTS mode	HTBC - H	3779
HTBC Communication Assembly DTS Mode	HMCA - H	

Auxiliary Equipment:

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Stab Measurement Summary

Phase	BS Window Ratio	Value	Phase	SS Window Ratio	Value	Phase	LS Window Ratio	Value
Before		0.7342	Before		0.4740	Before		0.2933

0.6961 (Minimum)	0.7327 (Nominal)	0.7694 (Maximum)	0.4499 (Minimum)	0.4736 (Nominal)	0.4973 (Maximum)	0.2830 (Minimum)	0.2979 (Nominal)	0.3128 (Maximum)			
Phase	BS Window Sum	CPS	Value	Phase	SS Window Sum	CPS	Value	Phase	LS Window Sum	CPS	Value
Before			33070	Before			12240	Before			1370
31330 (Minimum)	32980 (Nominal)	34630 (Maximum)		11650 (Minimum)	12260 (Nominal)	12880 (Maximum)		1307 (Minimum)	1376 (Nominal)	1445 (Maximum)	

Before: 29-Aug-2010 12:51

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Photo-multiplier High Voltages Calibrations											
Phase	BS PM High Voltage (Command)	V	Value	Phase	SS PM High Voltage (Command)	V	Value	Phase	LS PM High Voltage (Command)	V	Value
Before			1671	Before			1424	Before			1737
1582 (Minimum)	1682 (Nominal)	1782 (Maximum)		1328 (Minimum)	1428 (Nominal)	1528 (Maximum)		1642 (Minimum)	1742 (Nominal)	1842 (Maximum)	

Before: 29-Aug-2010 12:51

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %	Value	Phase	SS Crystal Resolution %	Value	Phase	LS Crystal Resolution %	Value			
Before		11.14	Before		8.394	Before		9.244			
10.30 (Minimum)	11.30 (Nominal)	12.30 (Maximum)		7.353 (Minimum)	8.353 (Nominal)	9.353 (Maximum)		8.397 (Minimum)	9.397 (Nominal)	10.40 (Maximum)	

Before: 29-Aug-2010 12:51

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
MCFL Calibration											
Phase	Raw B0 Resistivity OHMM	Value	Phase	Raw B1 Resistivity OHMM	Value	Phase	Raw B2 Resistivity OHMM	Value			
Before		3860	Before		3807	Before		3800			
3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	

Before: 29-Aug-2010 12:41

High resolution Integrated Logging Tool-DTS Wellsite Calibration						
HILT Caliper Calibration						
Phase	HILT Caliper Zero Measurement IN	Value	Phase	HILT Caliper Plus Measurement IN	Value	
Before		7.721	Before		11.97	
6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)

Before: 29-Aug-2010 12:38

High resolution Integrated Logging Tool-DTS Master Calibration						
Inversion results						
Phase	Rho Aluminum G/C3	Value	Phase	Rho Magnesium G/C3	Value	
Master		2.595	Master		1.692	
2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)		1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)
Phase	Pi Aluminum	Value	Phase	Pi Magnesium	Value	
Master		2.534	Master		2.633	
2.470 (Minimum)	2.670 (Nominal)	2.670 (Maximum)		2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)

Master: 2-Aug-2010 16:33

High resolution Integrated Logging Tool-DTS Master Calibration											
Deviation Summary											
Phase	BS Average Deviation %	Value	Phase	SS Average Deviation %	Value	Phase	LS Average Deviation %	Value			
Master		0.2406	Master		0.6666	Master		0.8340			
-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)		-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)	
Phase	BS Max Deviation %	Value	Phase	SS Max Deviation %	Value	Phase	LS Max Deviation %	Value			
Master		0.5527	Master		1.485	Master		1.974			
-1.600 (Minimum)	0 (Nominal)	1.600 (Maximum)		-2.500 (Minimum)	0 (Nominal)	2.500 (Maximum)		-3.500 (Minimum)	0 (Nominal)	3.500 (Maximum)	

Master: 2-Aug-2010 16:33

Compensated Neutron - G/ Equipment Identification

Primary Equipment:

Compensated Neutron Cartridge	CNC - GA	50
Neutron Logging Source	NLS - KL	
Neutron Source Radioactive	NSR - F	3116
Compensated Neutron Box	CNB - AB	
Neutron Detector without Alpha Source	CND - NA	
Compensated Neutron Box	CNB - AB	

Auxiliary Equipment:

Compensated Neutron Housing	CNH - G	468
Neutron Calibration Tank	NCT - B	

Compensated Neutron - G Wellsite Calibration					
Zero Measurement					
Phase	CNTC Background GPS	Value	Phase	CFTC Background GPS	Value
Master		0.5165	Master		1.033
Before		0	Before		1.044
	-0.010000 (Minimum) 1.000 (Nominal) 5.000 (Maximum)			-0.010000 (Minimum) 0 (Nominal) 5.000 (Maximum)	
Phase	CNEC Background GPS	Value	Phase	CFEC Background GPS	Value
Master		0	Master		0
Before		0	Before		0
	-0.010000 (Minimum) 1.000 (Nominal) 5.000 (Maximum)			-0.010000 (Minimum) 0 (Nominal) 5.000 (Maximum)	
Master: 25-Jul-2010 14:21			Before: 29-Aug-2010 12:49		

Compensated Neutron - G Wellsite Calibration								
Jig Measurement								
Phase	CNTC Jig GPS	Value	Phase	CFTC Jig GPS	Value	Phase	CNTC/CFEC (Jig)	Value
Master		2762	Master		1385	Master		1.994
Before		2796	Before		1360	Before	EXCEEDS LIMIT	2.056
	2624 (Minimum) 2762 (Nominal) 2900 (Maximum)			1316 (Minimum) 1385 (Nominal) 1454 (Maximum)			1.954 (Minimum) 1.994 (Nominal) 2.034 (Maximum)	
Phase	CNEC Jig GPS	Value	Phase	CFEC Jig GPS	Value	Phase	CNEC/CFEC (Jig)	Value
Master		646.1	Master		686.7	Master		0.9409
Before		647.9	Before		687.4	Before		0.9425
	613.8 (Minimum) 646.1 (Nominal) 678.4 (Maximum)			652.3 (Minimum) 686.7 (Nominal) 721.0 (Maximum)			0.9009 (Minimum) 0.9409 (Nominal) 0.9809 (Maximum)	
Master: 25-Jul-2010 15:00				Before: 29-Aug-2010 13:00				

Compensated Neutron - G Master Calibration								
Tank Measurement								
Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFEC (Tank)	Value
Master		5754	Master		2460	Master		2.339
	5000 (Minimum) 6031 (Nominal) 7200 (Maximum)			2075 (Minimum) 2793 (Nominal) 3125 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	
Phase	Epi. Near Corr. (Tank) CPS	Value	Phase	Epi. Far Corr. (Tank) CPS	Value	Phase	CNEC/CFEC (Tank)	Value
Master		2888	Master		1201	Master		2.405
	2600 (Minimum) 3304 (Nominal) 4000 (Maximum)			1000 (Minimum) 1235 (Nominal) 1500 (Maximum)			2.400 (Minimum) 2.675 (Nominal) 2.950 (Maximum)	
Master: 25-Jul-2010 14:49								

Scintillation Gamma Ray Tool - N/ Equipment Identification




Primary Equipment:

Scintillation Gamma Cartridge	SGC - TB
Scintillation Gamma Detector	SGD - TAB

Auxiliary Equipment:

Scintillation Gamma Housing	SGH - K
Gamma Source Radioactive	GSR - U/Y

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value	
Before		30.64	Before		154.8	Before		165.0	
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	140.8 (Minimum)	154.8 (Nominal)	168.9 (Maximum)	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 29-Aug-2010 12:38

DTS Telemetry Tool / Equipment Identification

Primary Equipment:		
DTC-H Auxiliary Cartridge	DTCH - A	
DTC-H Telemetry Cartridge	DTCH - A	8461
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH - K-C	6371

Company: **Stone Energy Corporation**



Well: **Mills-Wetzel #1 H**
 Field: **Heather**
 County: **Wetzel**
 State: **West Virginia**

**PLATFORM EXPRESS
 COMPENSATED NEUTRON / LITHO DENSITY
 GAMMA RAY / CALIPER**