REC'D OCT 14 2011

Schlumberger

Company: **OXY USA - LA BASIN**

CONFIDENTIAL

Well: **DOM-001**
Field: **Dominguez**
County: **Los Angeles** State: **California**

County: Los Angeles
Field: Dominguez
Location: Surface Lambert Coordinates
Well: DOM-001
Company: OXY USA - LA BASIN

PLATFORM EXPRESS
HRLA LATEROLOG RESISTIVITY
ARRAY INDUCTION - GAMMA RAY - SP

Viscosity

LOCATION

Surface Lambert Coordinates		Elev.: K.B.	
N: 4 062 754.38		G.L.	168.97 ft
E :4 214 067.32		D.F.	194.09 ft
Permanent Datum:	Ground Level	Elev.:	268.97 ft
Log Measured From:	Derrick Floor	-74.89 ft	above Perm. Datum
Drilling Measured From:	Derrick Floor		

API Serial No.	Section	Township	Range
037-27124	33	3S	13W

Logging Date		14-Nov-2010			11-Dec-2010		
Run Number		One			Two		
Depth Driller		2010 ft			8508 ft		
Schlumberger Depth		2012 ft			8517 ft		
Bottom Log Interval		2012 ft			8511 ft		
Top Log Interval		330 ft			1995 ft		
Casing Driller Size @ Depth		18.625 in	@	330 ft	13.375 in	@	1997 ft
Casing Schlumberger		330 ft			1995 ft		
Bit Size		12.250 in			12.250 in		
Type Fluid In Hole		Gelite/KCL			8% KCL- GELITE		
MUD Density	Viscosity	10 lbm/gal	45 s		10 lbm/gal	48 s	
MUD Fluid Loss	PH	11 cm3	7.8		4.2 cm3	7.6	
MUD Source Of Sample		Mudpit			FLOWLINE		
RM @ Measured Temperature		0.347 ohm.m	@	75 degF	0.107 ohm.m	@	91 degF
RMF @ Measured Temperature		0.161 ohm.m	@	78 degF	0.103 ohm.m	@	84 degF
RMC @ Measured Temperature		0.413 ohm.m	@	80 degF	0.177 ohm.m	@	84 degF
Source RMF	RMC	Meas	Meas		MUD PRESS	MUD PRESS	
RM @ MRT	RMF @ MRT	0.227 @ 118	0.109	@ 118	0.051 @ 198	0.046	@ 198
Maximum Recorded Temperatures		118 degF			198 degF		
Circulation Stopped	Time	13-Nov-2010		16:00	10-Dec-2010		22:00
Logger On Bottom	Time	13-Nov-2010		2:14	11-Dec-2010		11:28
Unit Number	Location	3181	Long beach		2363	BAKERSFIELD	
Recorded By		Mark MacGlashan			JARROD LONG		
Witnessed By		Marieke Gaudet			MARIEKE GAUDET		

		Run 1		Run 2	
Logging Date		31-Dec-2010			
Run Number		Three			
Depth Driller		11113			
Schlumberger Depth		11127			
Bottom Log Interval		11121			
Top Log Interval		8495			
Casing Driller Size @ Depth		9.625	@	8494	
Casing Schlumberger		8495			
Bit Size		8.5 in			
Type Fluid In Hole		8% KCL Gel			
MUD Density	Viscosity	11.5		50 S	
MUD Fluid Loss	PH	4.2 CM3		7.9	
MUD Source Of Sample		Flowline			
RM @ Measured Temperature		0.187	@	54 degf	
RMF @ Measured Temperature		0.174	@	47 degf	
RMC @ Measured Temperature		0.290	@	49 degf	
Source RMF	RMC	Meas		Meas	
RM @ MRT	RMF @ MRT	.044	@ 255	.036	@ 255
Maximum Recorded Temperatures		255			
Circulation Stopped	Time	30-Dec-2010		16:00	
Logger On Bottom	Time	31-Dec-2010		5:55	
Unit Number	Location	2663	Bakersfield		
Recorded By		Jarrod Long			
Witnessed By		Hilario Camacho			

hris Smart		
arrod Long		
363	Bakersfield	
1-Jan-2011		23:15
20-Jan-2011		19:00
01 degf	305	299
@		@
	@	
	@	
	@	
scosity		
7 cm3	-----	
3.5 lbm	52 s	
ynthetic OBM		
.000 in		
1115		
000 in	@	11103
1115		
2886		
2894		
2885		
our		
1-Jan-2011		

Run 3

Run 4

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	OTHER SERVICES2
OS1: SONIC SCANNER	OS1: ECS-HGNS
OS2:	OS2: FMI-MSIP
OS3:	OS3: CMR-XPT
OS4:	OS4: CST
OS5:	OS5:

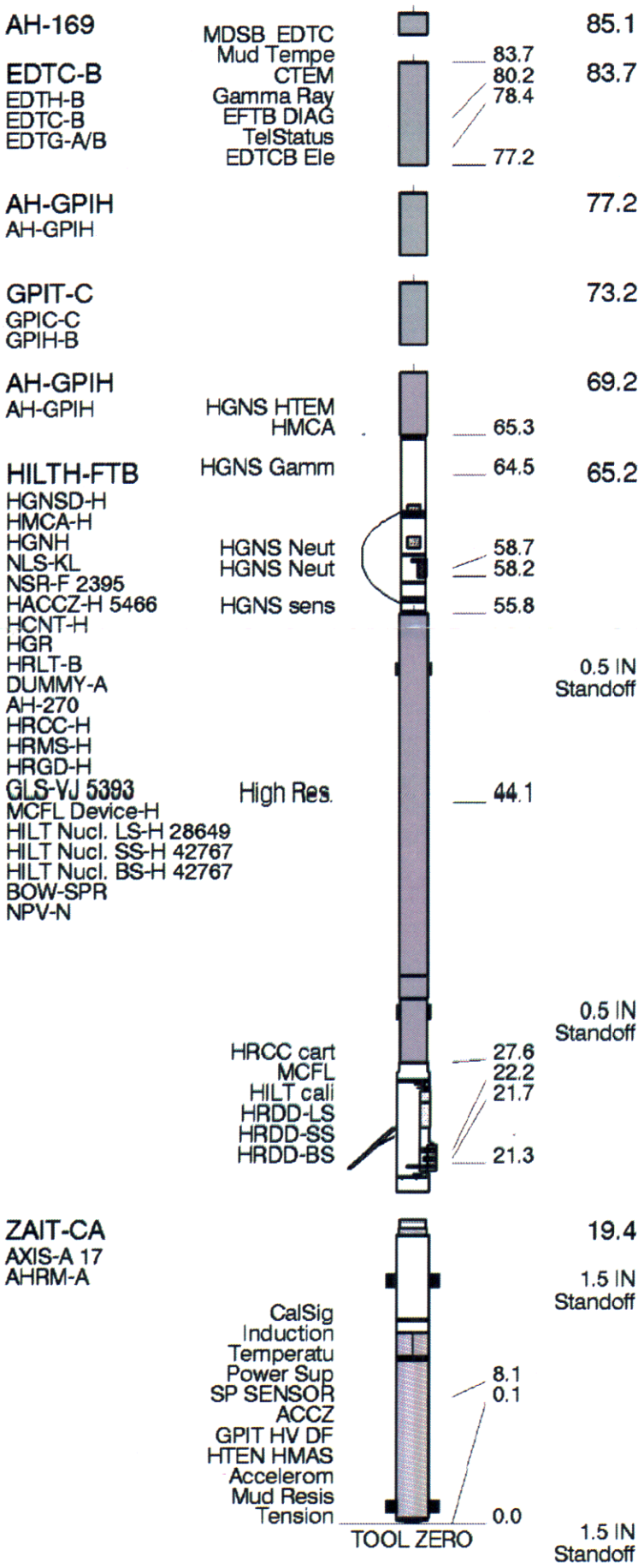
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
	SUBSEQUENT TRIP TO WELL
SP scale reversed due to saline mud	LOG CORRELATED TO PLATFORM EXPRESS
	DATED 14-NOV-2010
	TWO 1.5" STANDOFFS RAN ON LATEROLOG TOOL
	TWO 0.125" WEAR RINGS RAN ON NEUTRON TOOL
	BOWSPRING RAN ON NEUTRON TOOL
	MATRIX: SANDSTONE DENSITY: 2.65 G/CC
	TOTAL CHLORIDES: 39400 PPM
	MAX TEMP = 198 DEGF
	ICV CALCULATED USING FCD = 9.625"
	RIG: H&P 262
	THANK YOU FOR USING SCHLUMBERGER!

RUN 1		RUN 2	
SERVICE ORDER #:	B1PN-00198	SERVICE ORDER #:	AUYB-00225
PROGRAM VERSION:	18C0-147	PROGRAM VERSION:	18C0-147
FLUID LEVEL:	0 ft	FLUID LEVEL:	

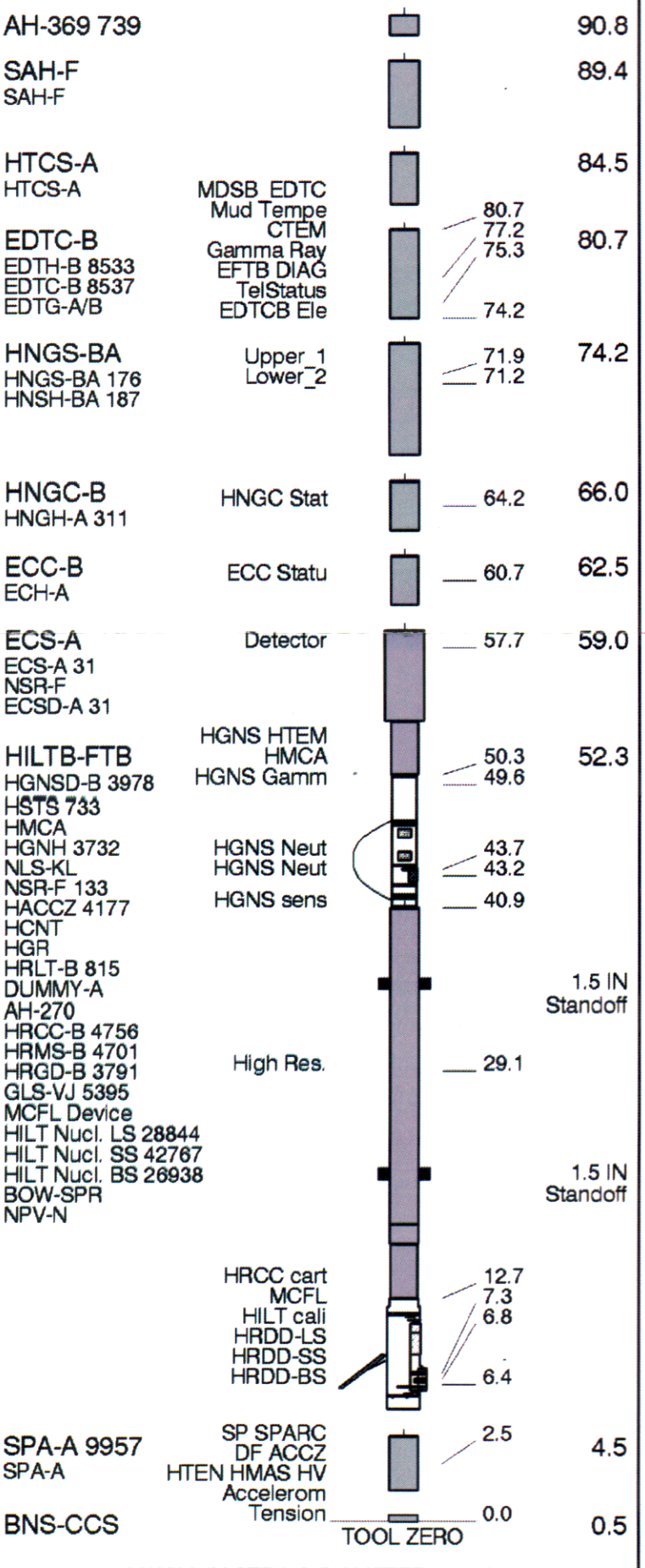
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	**SURFACE EQUIPMENT**
GSR-U/Y, WITM (EDTS)-A, NCT-B, CNB-AB, NCS-VB	WITM (EDTS)-A, NCS-VB, GSR-U/Y, GSR-U, NCT-B, CNB-AB
DOWNHOLE EQUIPMENT	**DOWNHOLE EQUIPMENT**
LEH-QT 88.0	LEH-QT 93.7
LEH-QT	LEH-QT



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



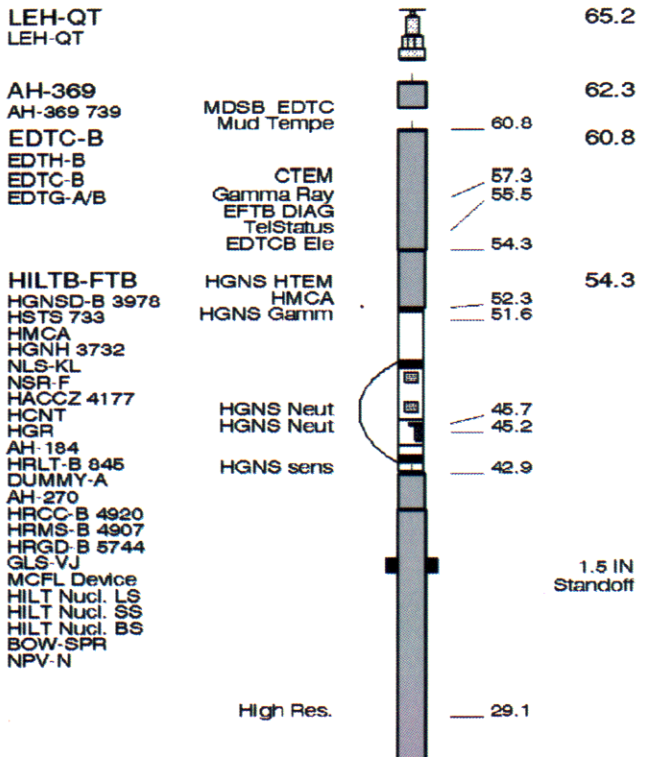
MAXIMUM STRING DIAMETER 6.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

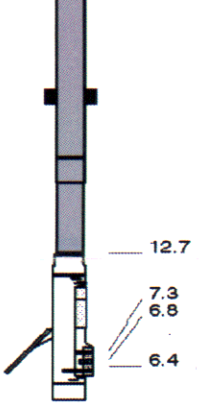
SURFACE EQUIPMENT

WITM (EDTS)-A
GSR-U/Y
NCT-B
CNB-AB

NCS-VB

DOWNHOLE EQUIPMENT





1.5 IN
Standoff

HRCC cart — 12.7

MCFL — 7.3
HILT cali — 6.8
HRDD-LS
HRDD-SS
HRDD-BS — 6.4

SPA-A — 4.5
SPA-A

SP SPARC — 2.5
DF ACCZ
HTEN HMAS HV
Accelerom
Tension

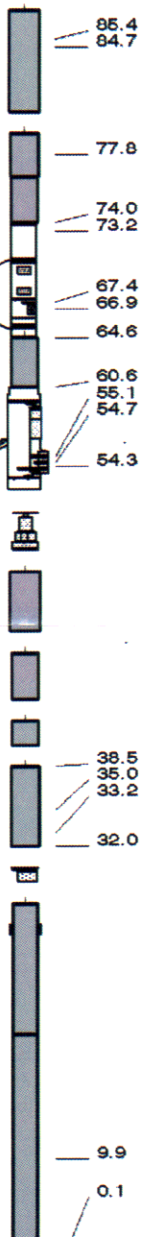
BNS-CCS — 0.0 — 0.5
TOOL ZERO

MAXIMUM STRING DIAMETER 6.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

SURFACE EQUIPMENT

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

DOWNHOLE EQUIPMENT



HNGS-BA — 87.7
HNGS-BA
HNSH-BA

Upper_1 — 85.4
Lower_2 — 84.7

HNGC-B — 79.5
HNGH-A
HNGC-B

HNGC Stat — 77.8

HILTB-FTB — 76.0
HGNSD-B
HSTS
HMCA
HGNH
NLS-KL
NSR-F
HACCZ
HCNT
HGR
HRCC-B
HRMS-B
HRGD-B
GLS-VJ
MCFL Device
HILT Nucl. LS
HILT Nucl. SS
HILT Nucl. BS

HGNS HTEM
HMCA — 74.0
HGNS Gamm — 73.2

HGNS Neut — 67.4
HGNS Neut — 66.9

HGNS sens — 64.6

HRCC cart — 60.6
MCFL — 55.1
HILT cali — 54.7
HRDD-LS
HRDD-SS
HRDD-BS — 54.3

LEH-MT — 52.3
LEH-MT

SAH-F — 49.2
SAH-F

HTCS-A — 44.3
HTCS-A

AH-HSTS — 40.5

EDTC-B — 38.5
EDTH-B
EDTC-B
EDTG-A/B

MDSB_EDTC
Mud Tempe — 38.5
CTEM — 35.0
Gamma Ray — 33.2
EFTB DIAG
TelStatus
EDTCB Ele — 32.0

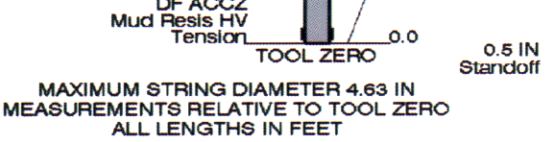
AH-234 — 32.0

QAIT-A — 30.8
SAIC-AA
UDFH-PLB
QAIS-AA 68

0.5 IN
Standoff

Induction
Temperatu
Power Sup — 9.9

SP — 0.1
HTEN HMAS
Accelerom



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

Input DLIS Files

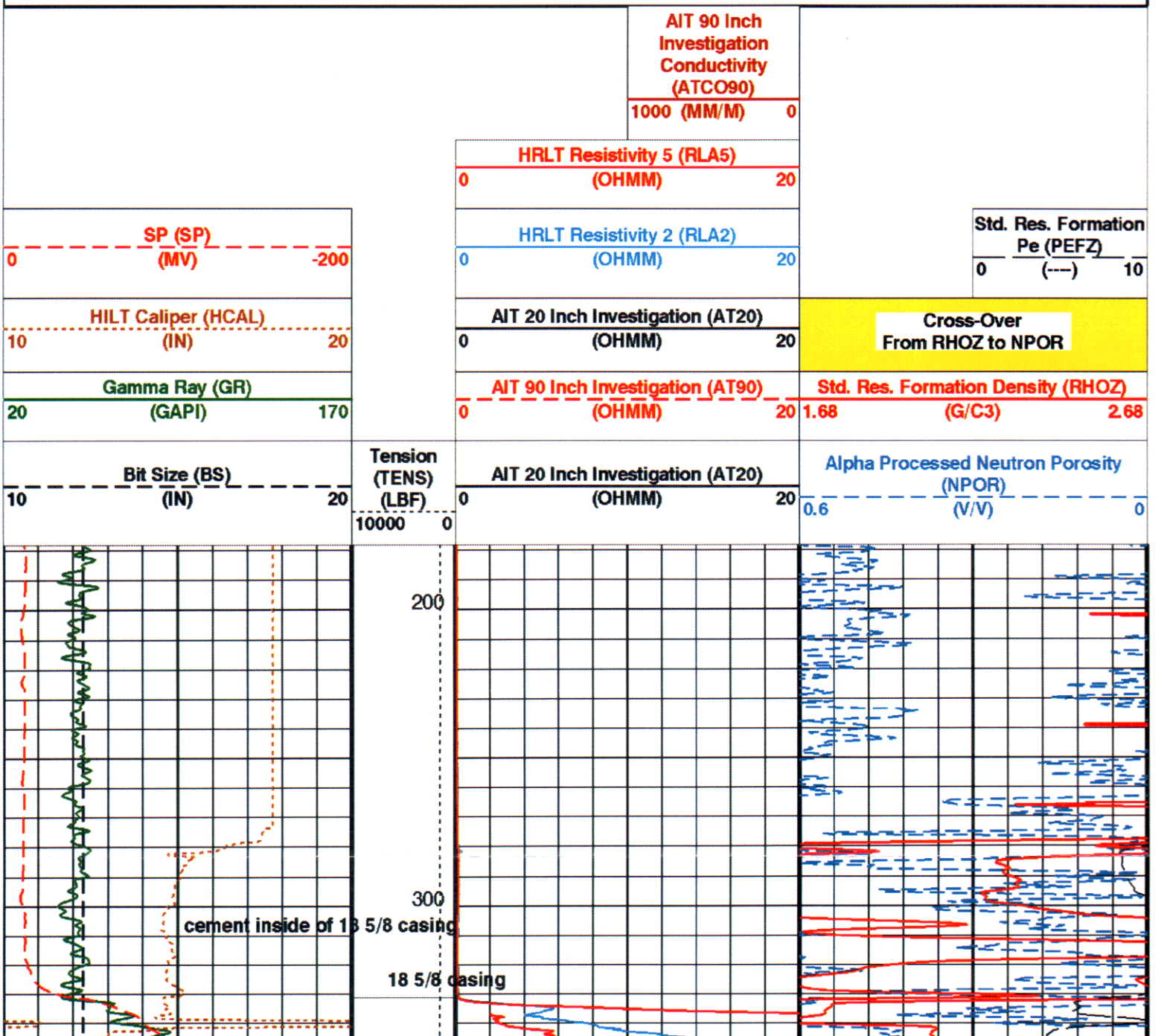
DEFAULT	SPLICE_AIT_TLD_MCFL_126	FN:1	PRODUCER	18-Feb-2011 06:44	12915.0 FT	178.0 FT

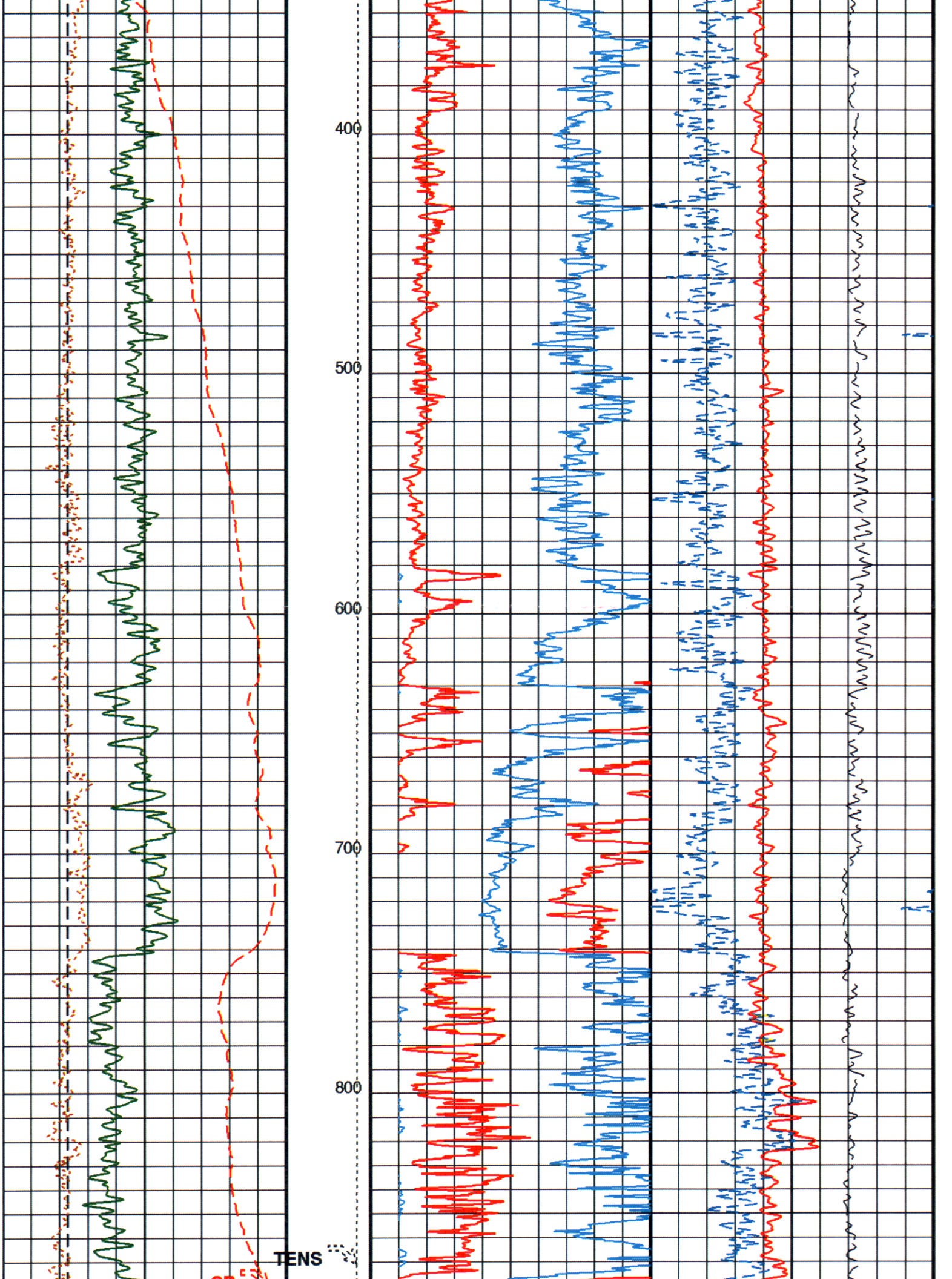
Output DLIS Files

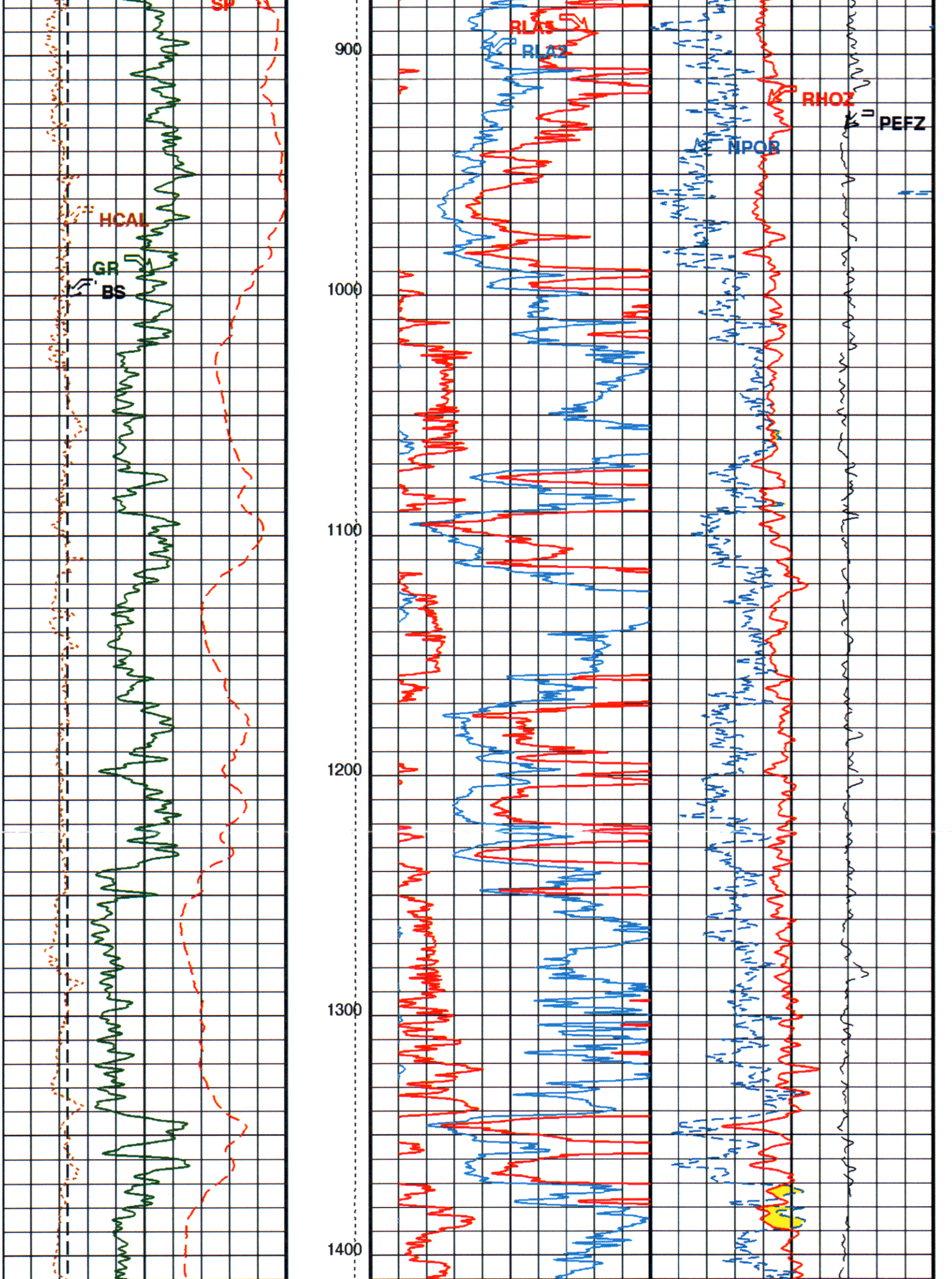
DEFAULT	AIT_TLD_MCFL_CNL_IS_139PUP	FN:13	PRODUCER	18-Feb-2011 08:09	12915.0 FT	178.0 FT

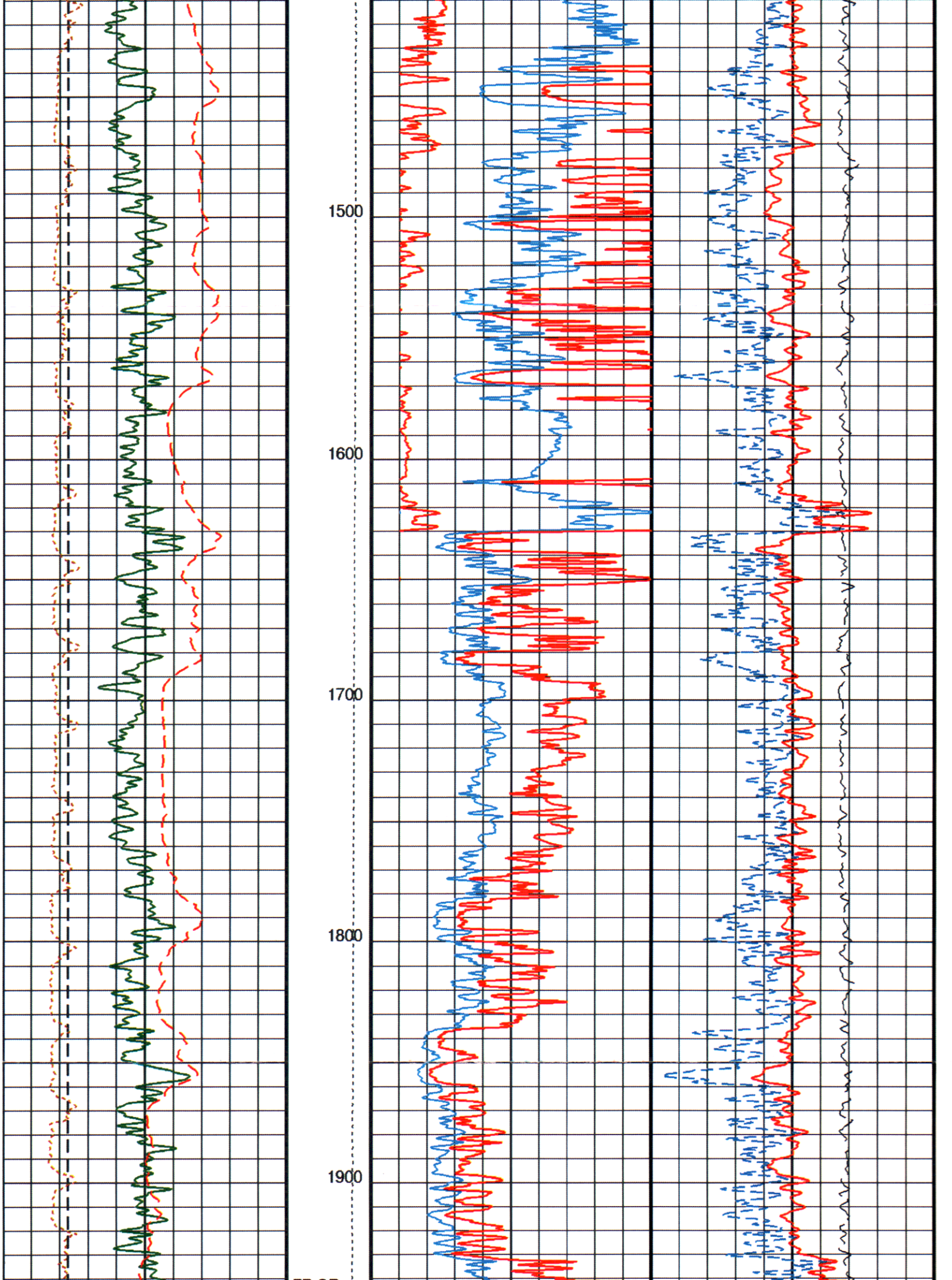
OP System Version: 18C0-147

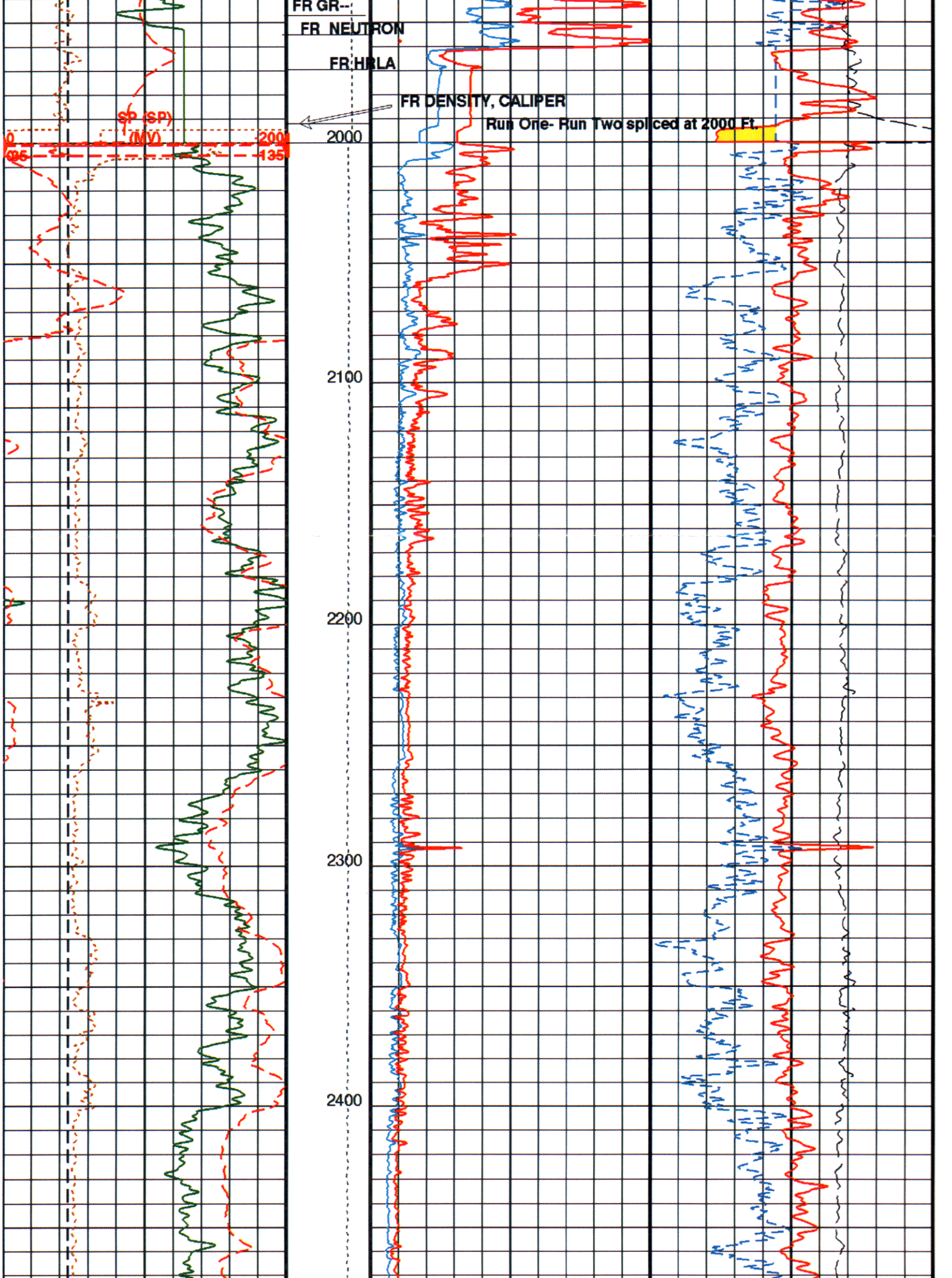
HAIT-H	18C0-147	SPA-A	18C0-147
HILTB-FTB	18C0-147	EDTC-B	18C0-147
AIT-M	18C0-147	HRLT-B	18C0-147
HNGC-B	18C0-147	HNGS-BA	18C0-147
GPIT-F	18C0-147		

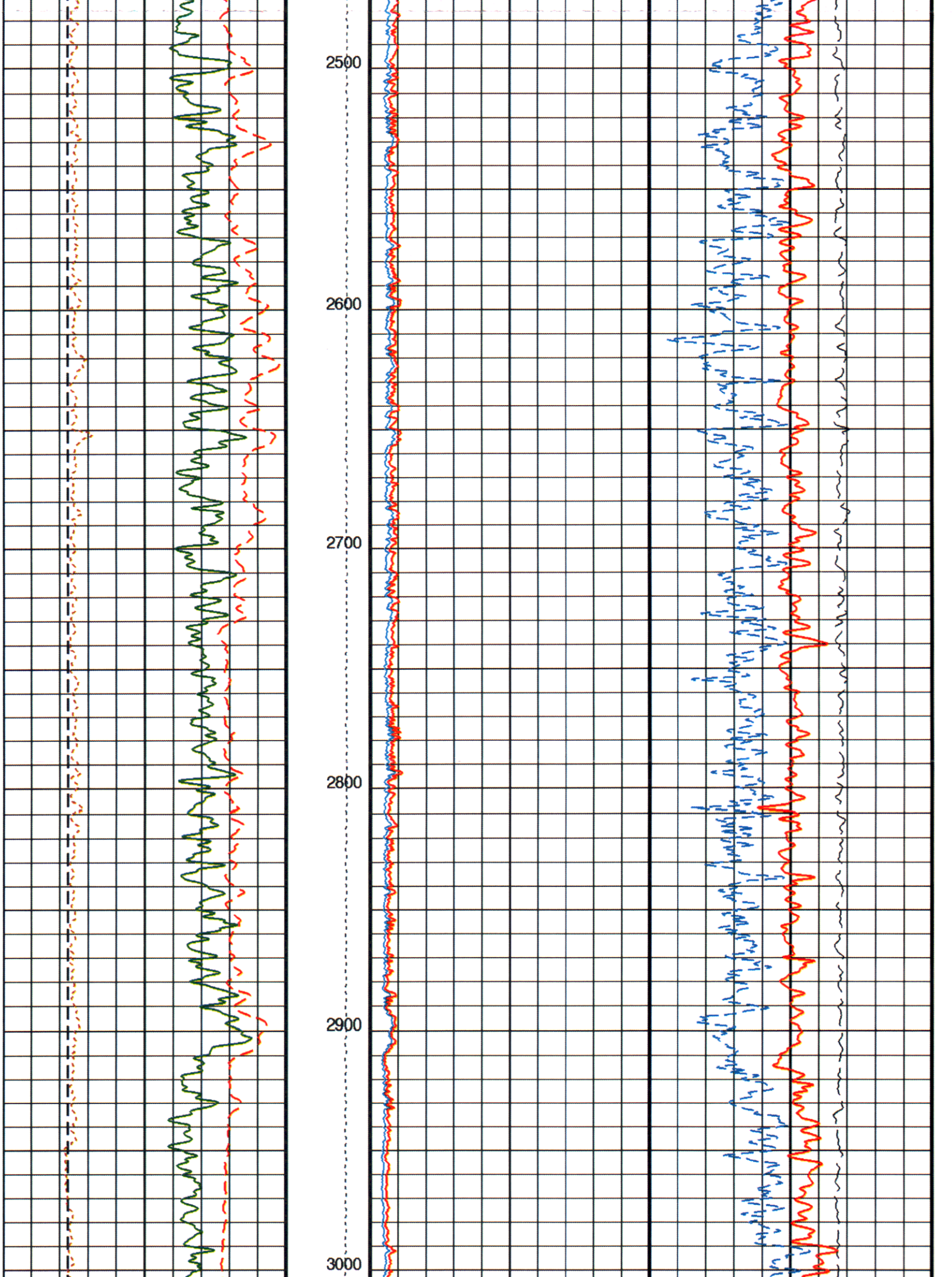


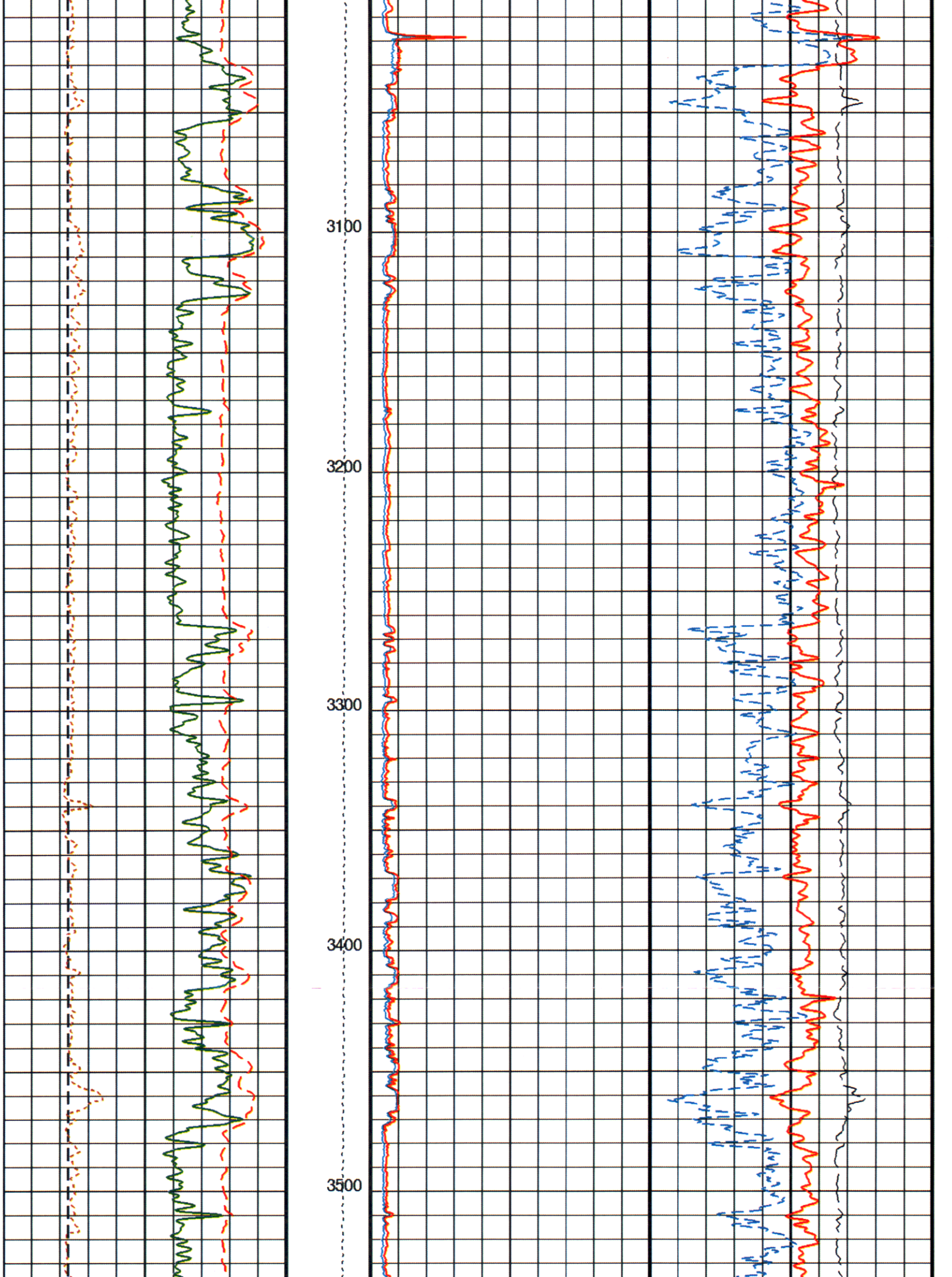

400
500
600
700
800
TENS


SP
HCAL
GR
BS
900
1000
1100
1200
1300
1400
RLA5
RLA2
RHOZ
NPOR
PEFZ


1500
1600
1700
1800
1900


FR GR--
FR NEUTRON
FR HRLA
FR DENSITY, CALIPER
Run One- Run Two spliced at 2000 Ft.
SP (SP)
(MV)
0
200
-135
2000
2100
2200
2300
2400


2500
2600
2700
2800
2900
3000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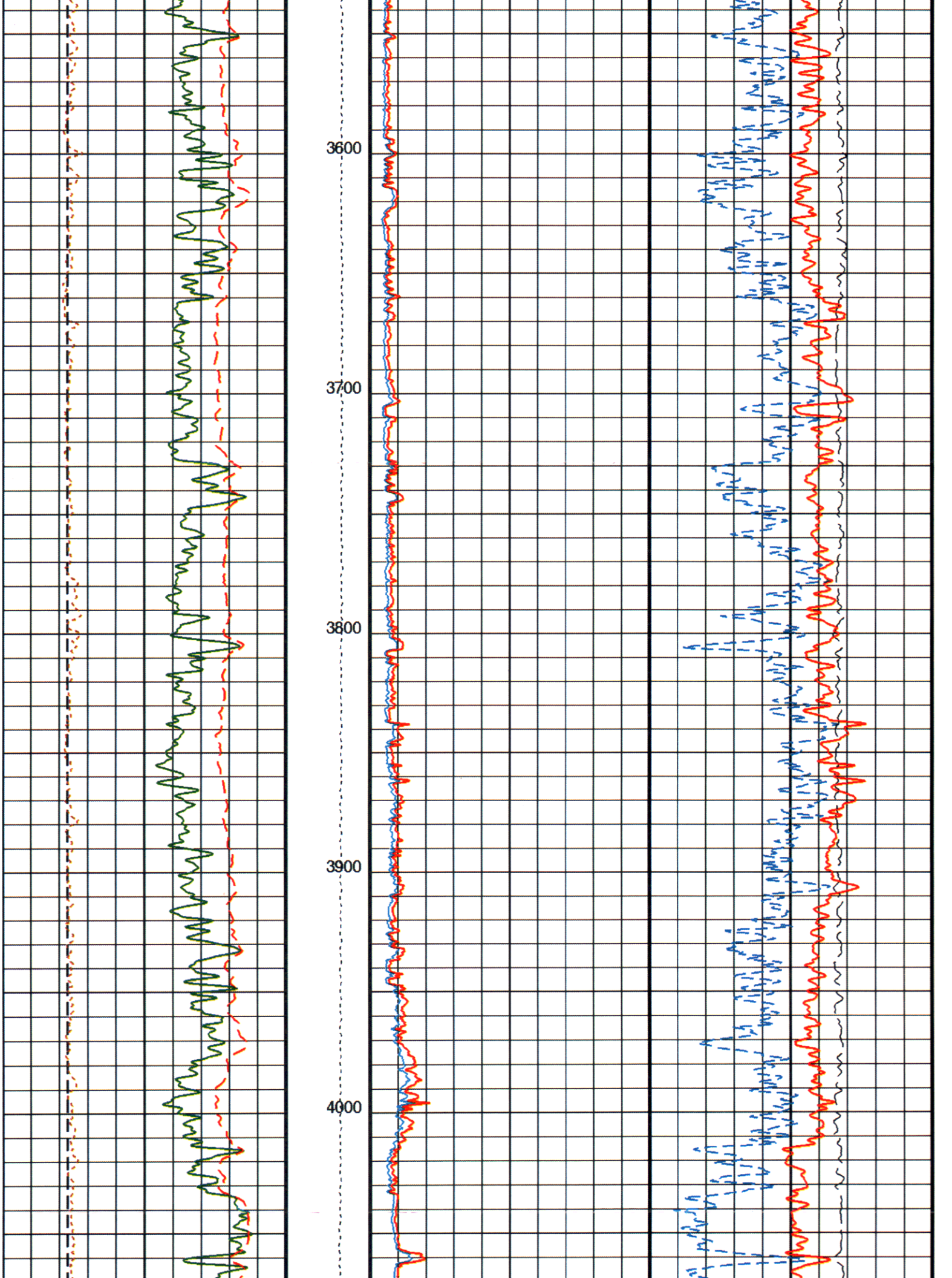
3200
3300
3400
3500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3700
3800
3900
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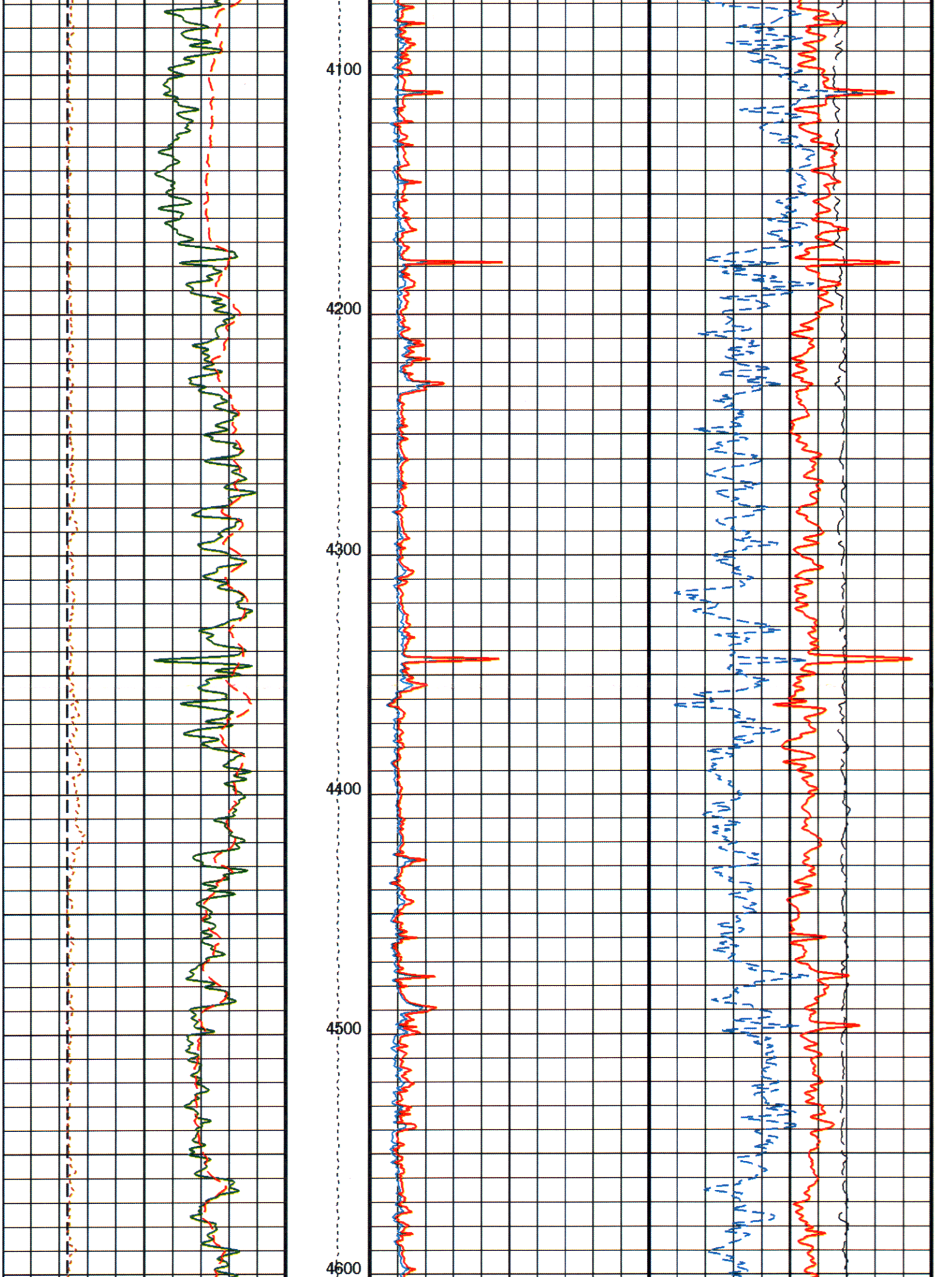
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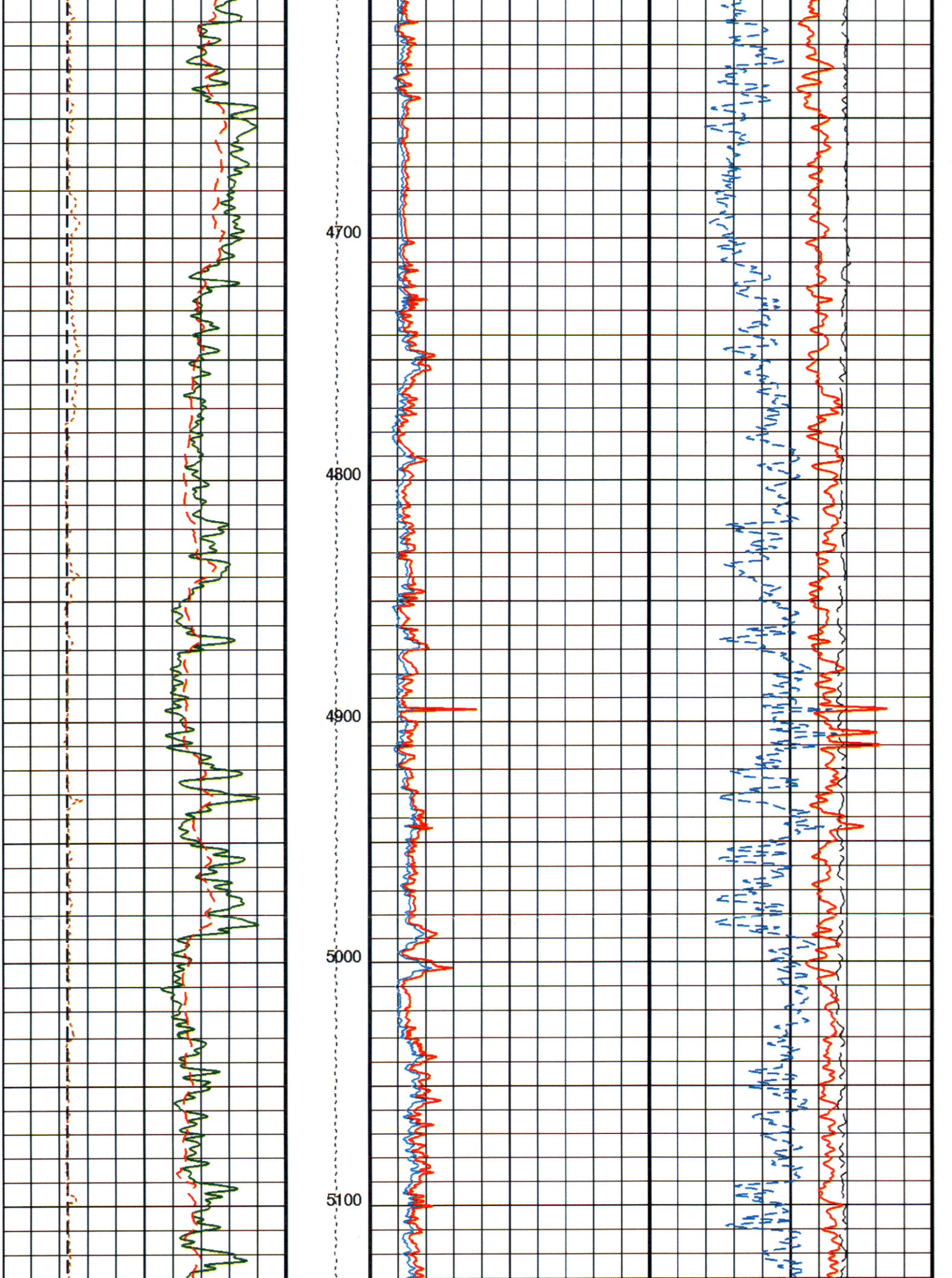
4200
4300
4400
4500
4600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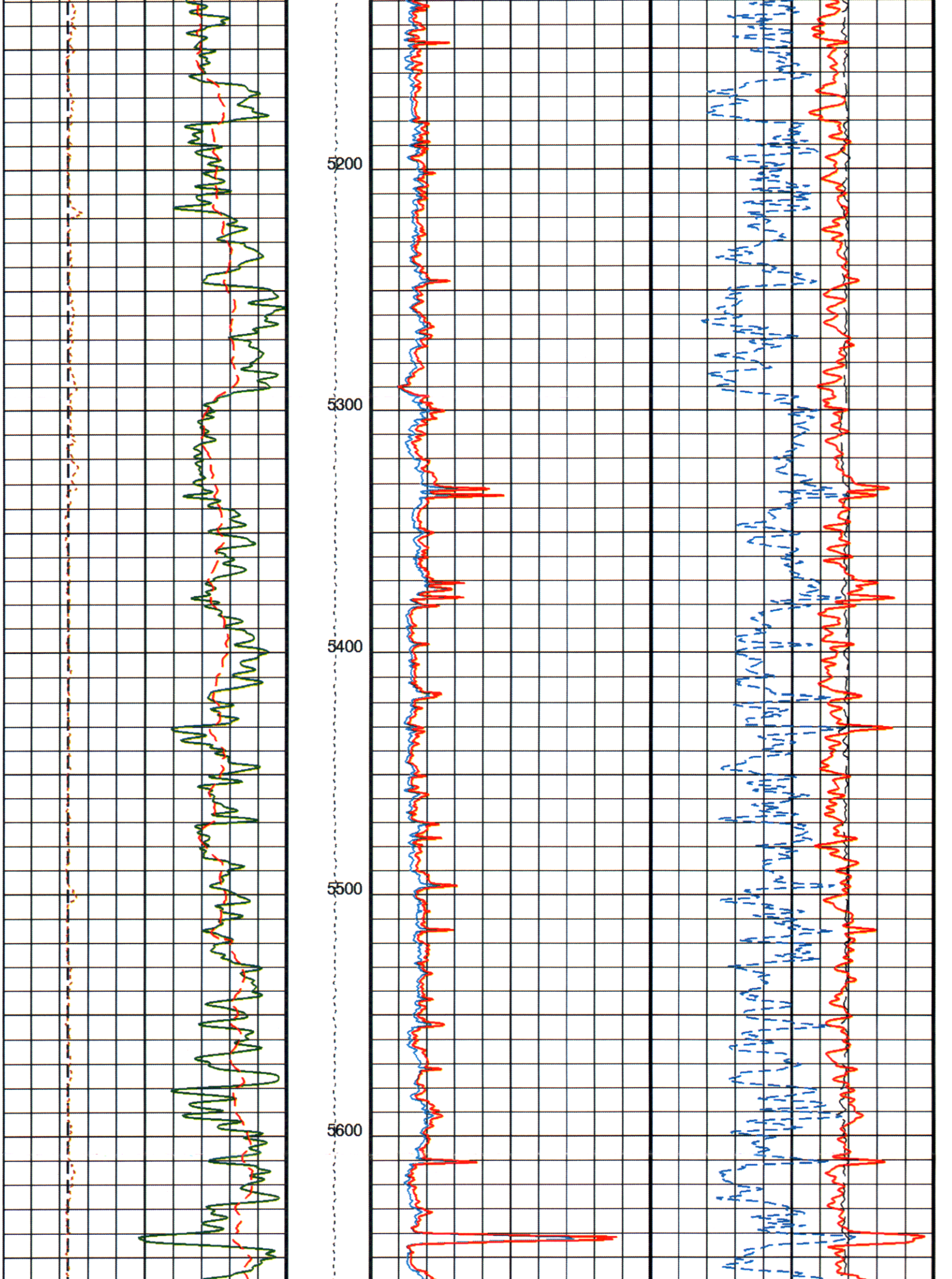
4800
4900
5000
5100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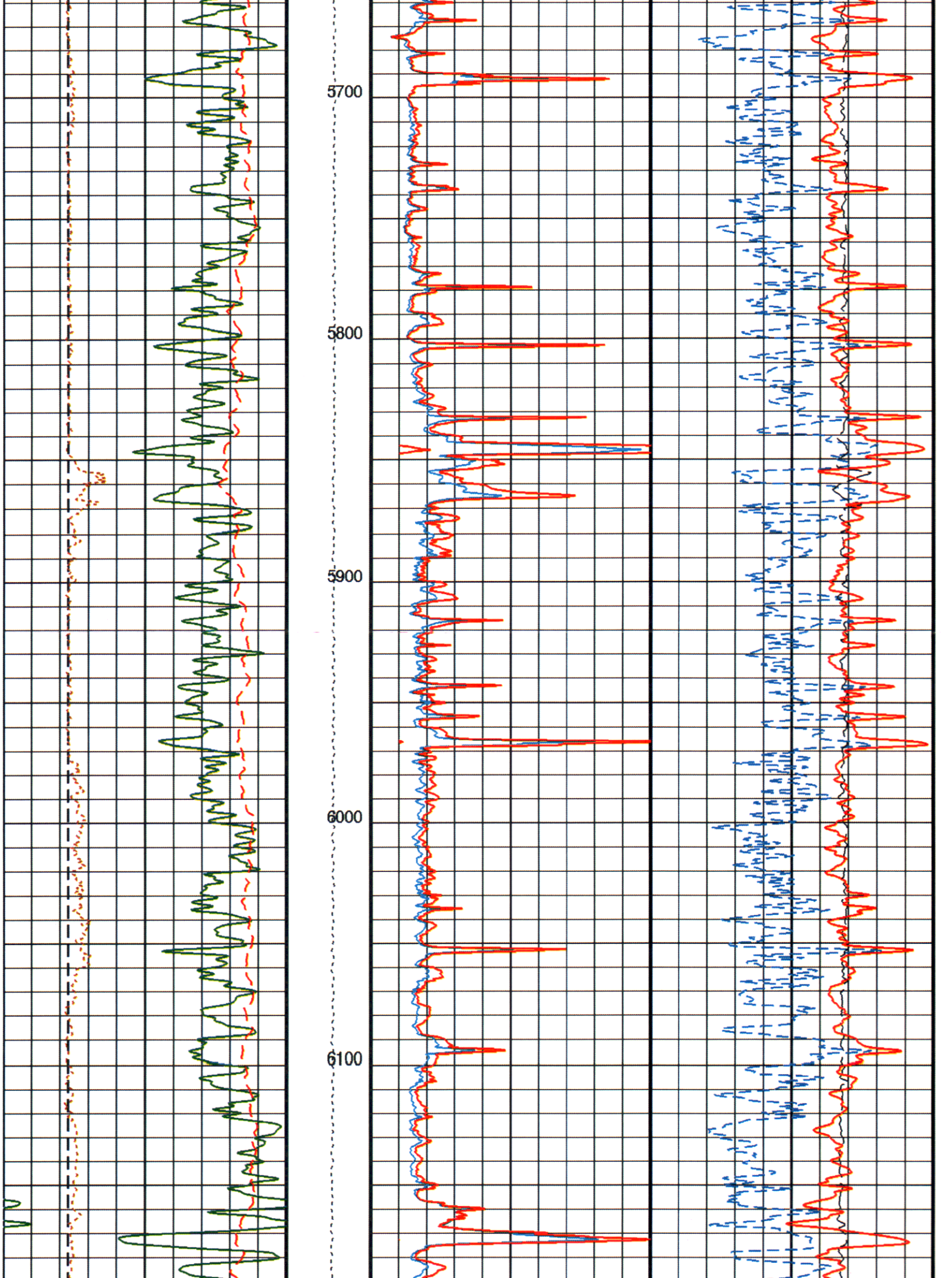
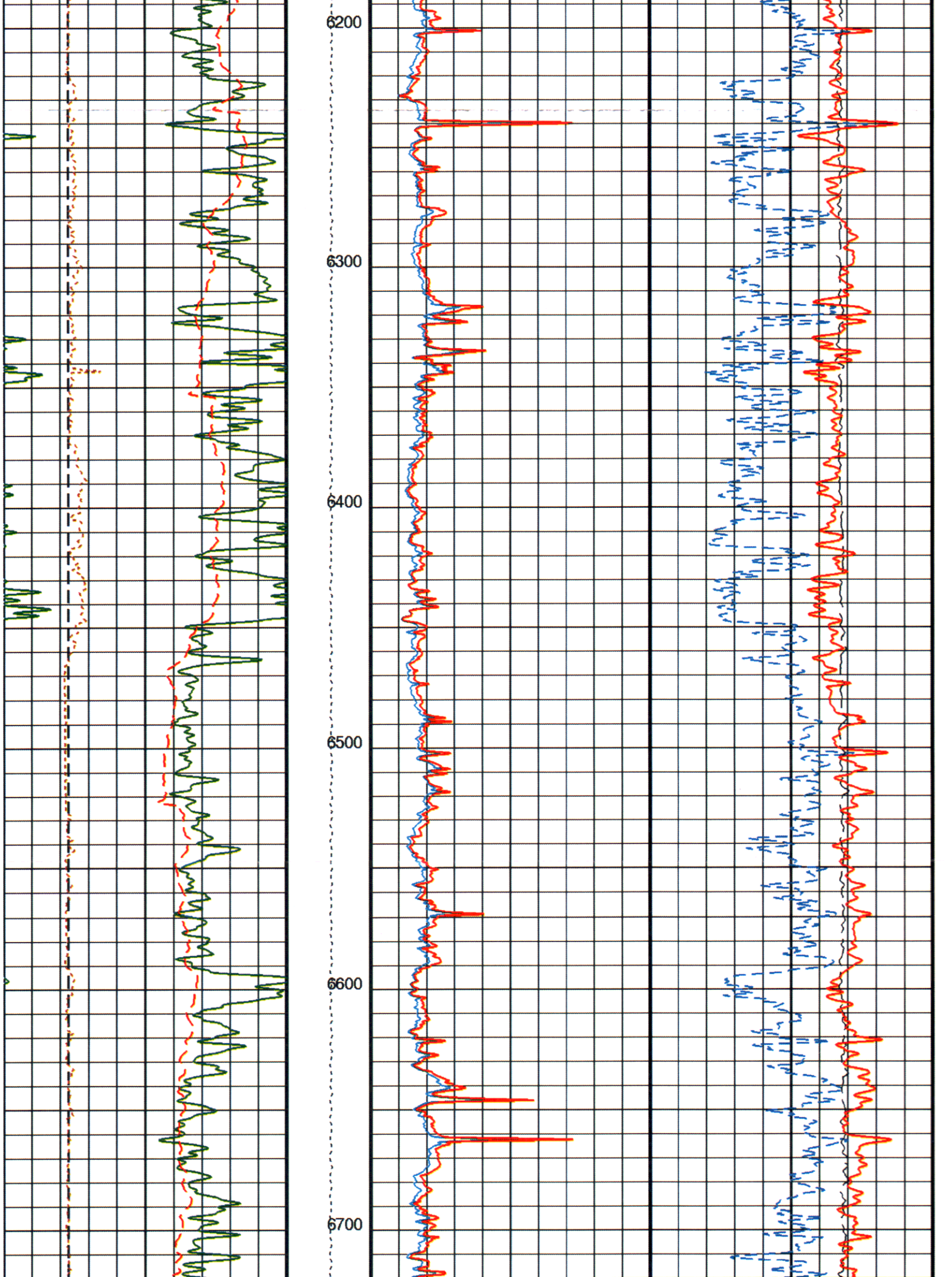
5300
5400
5500
5600


5700
5800
5900
6000
6100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6300
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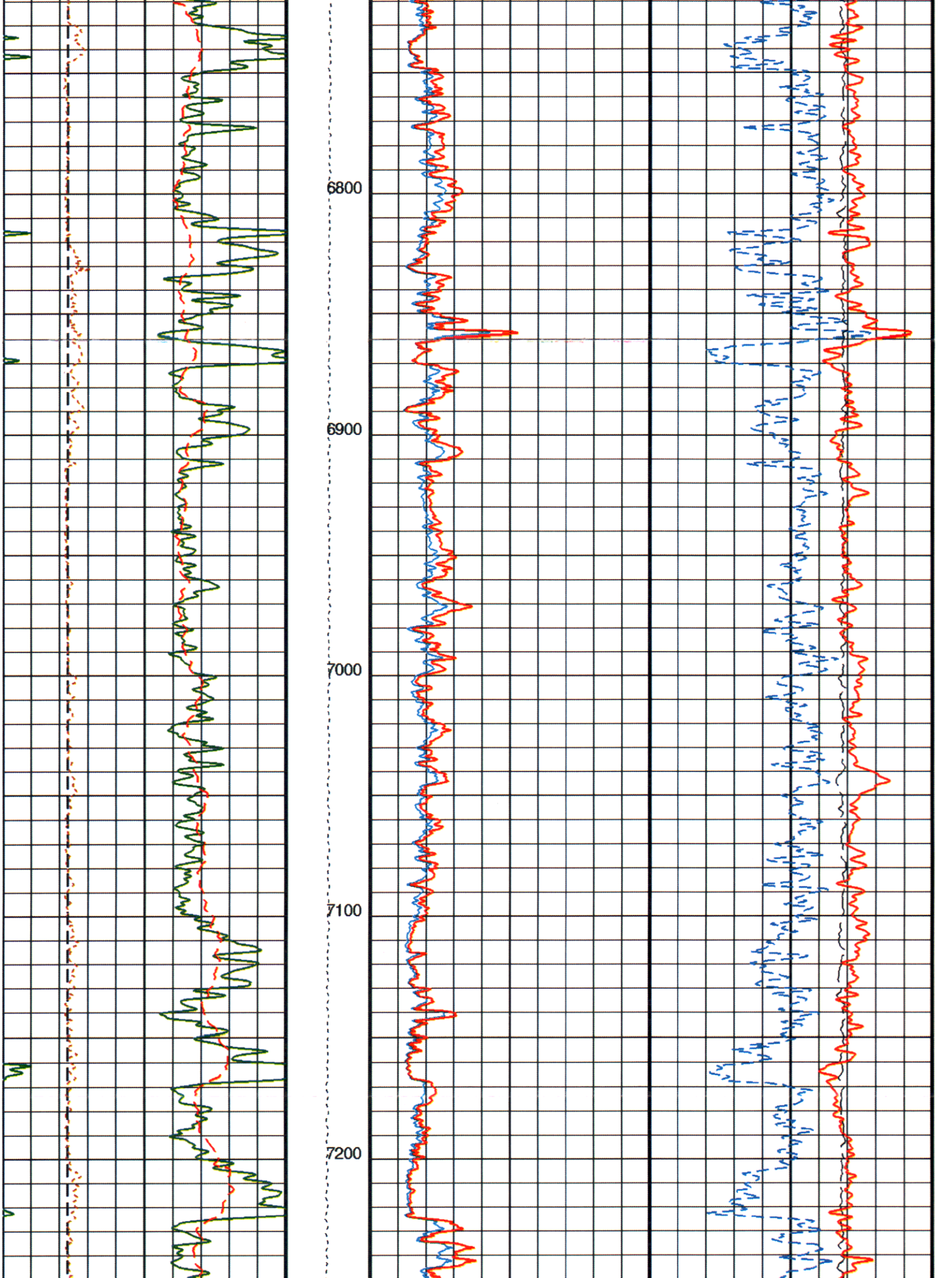
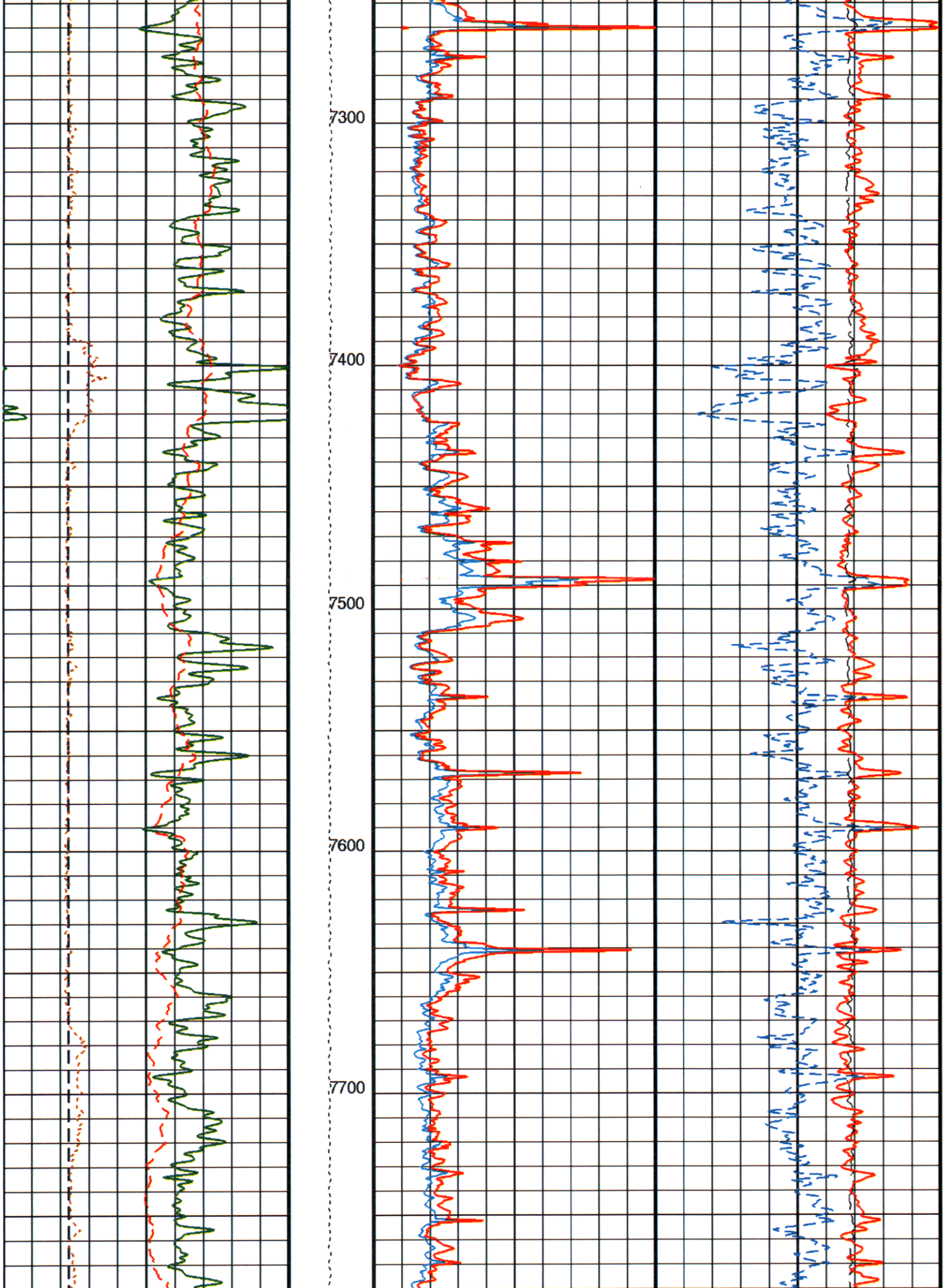
6500
6600
6700


6800
6900
7000
7100
7200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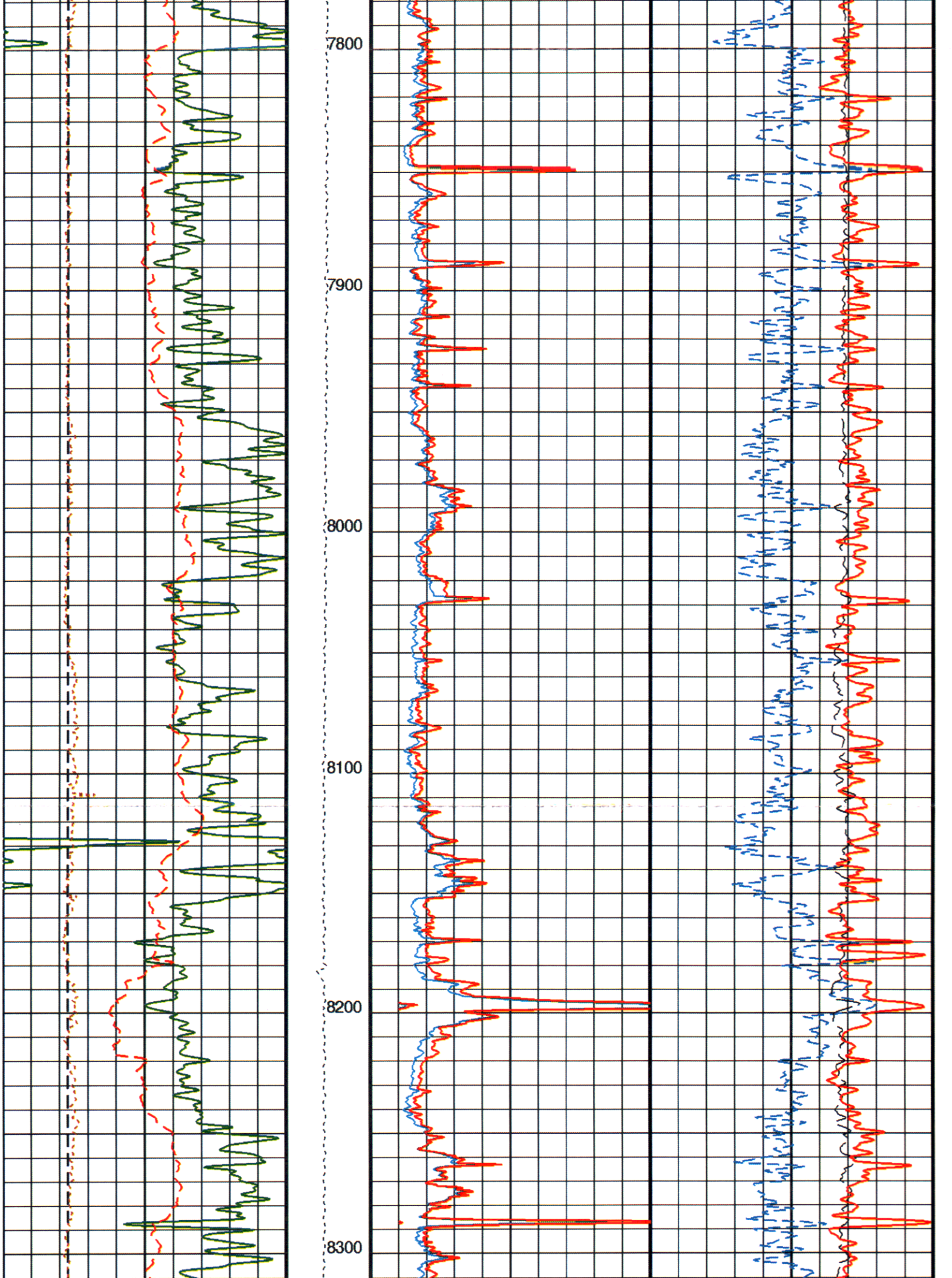
7400
7500
7600
7700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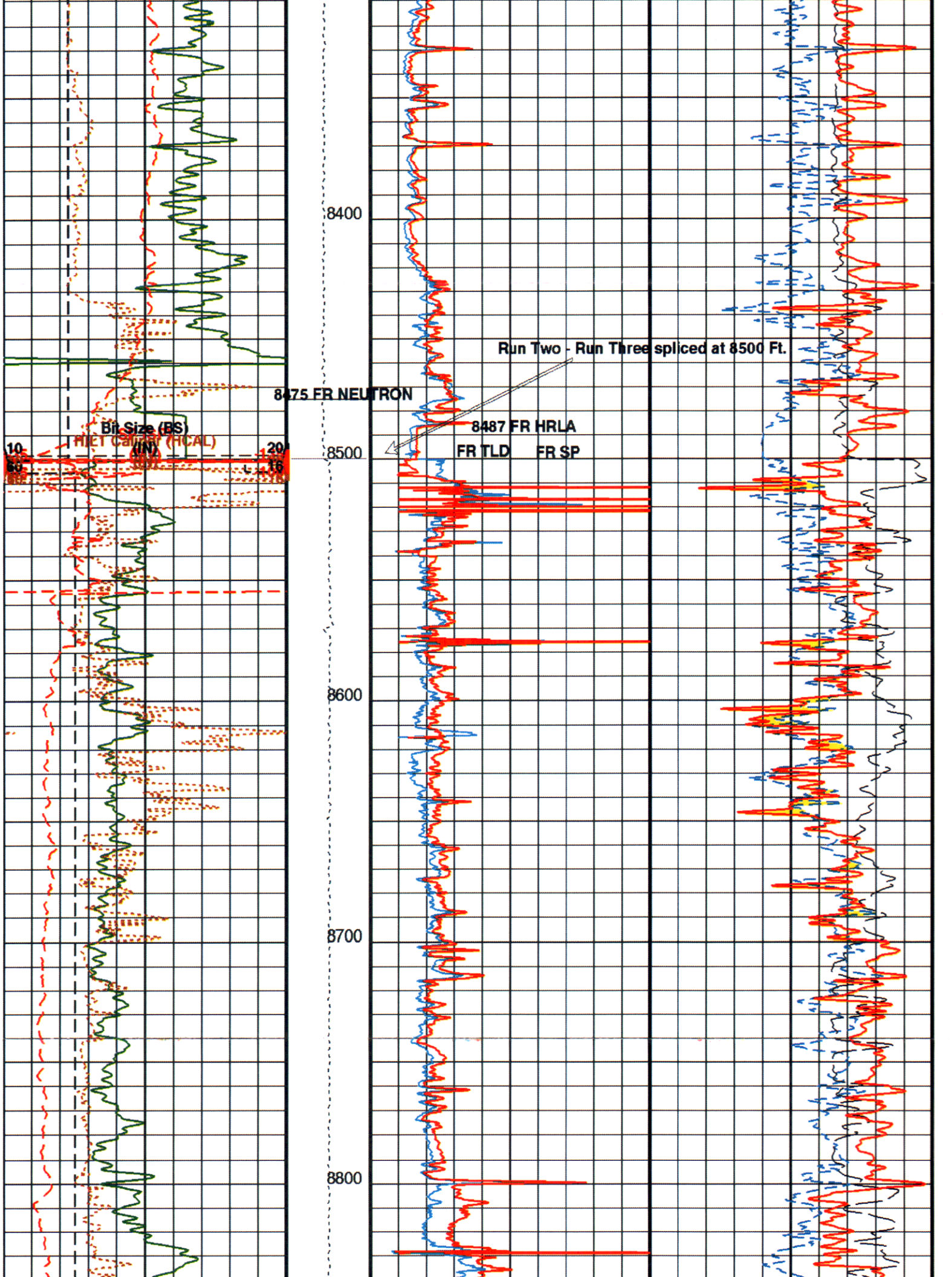
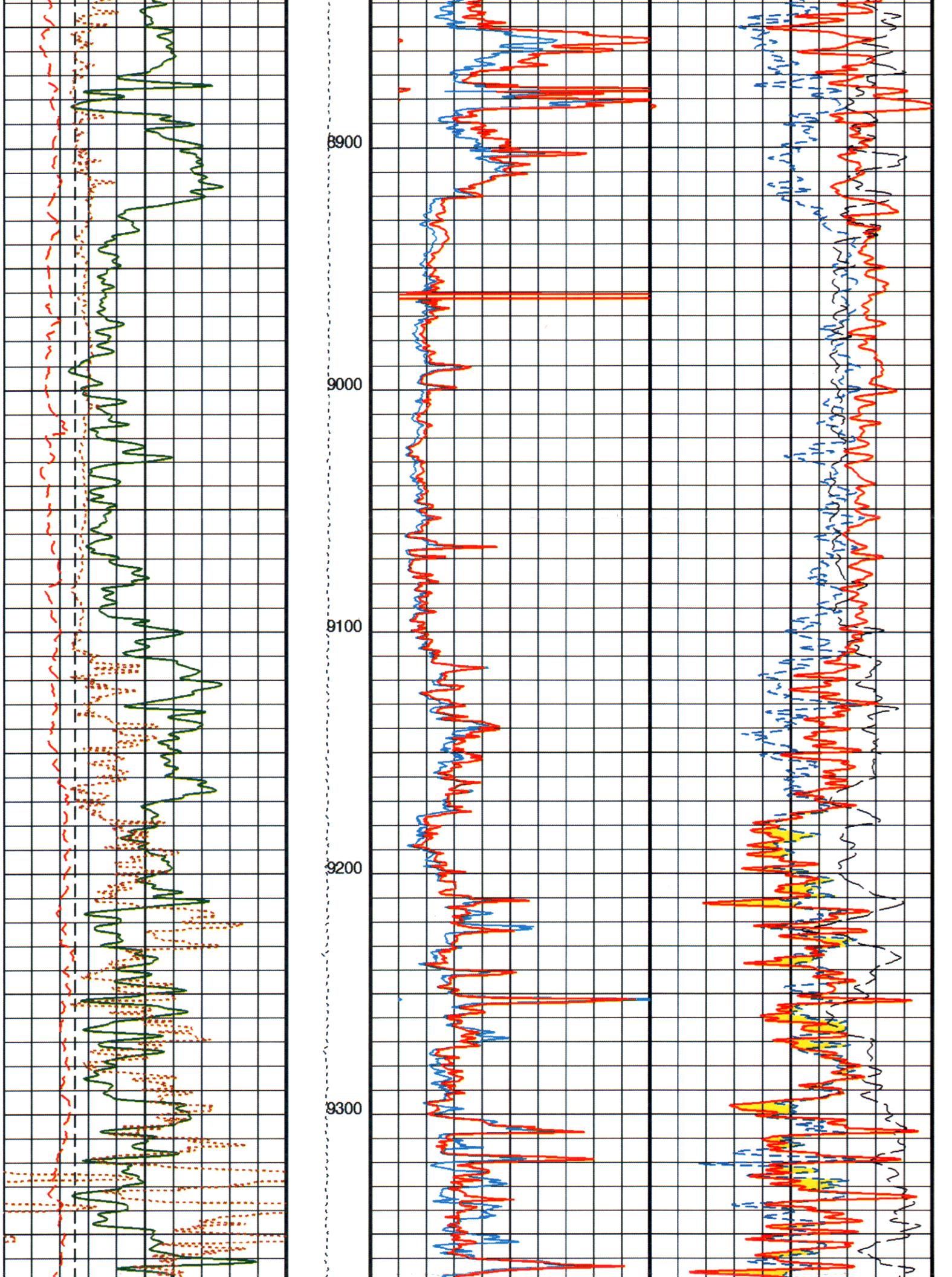
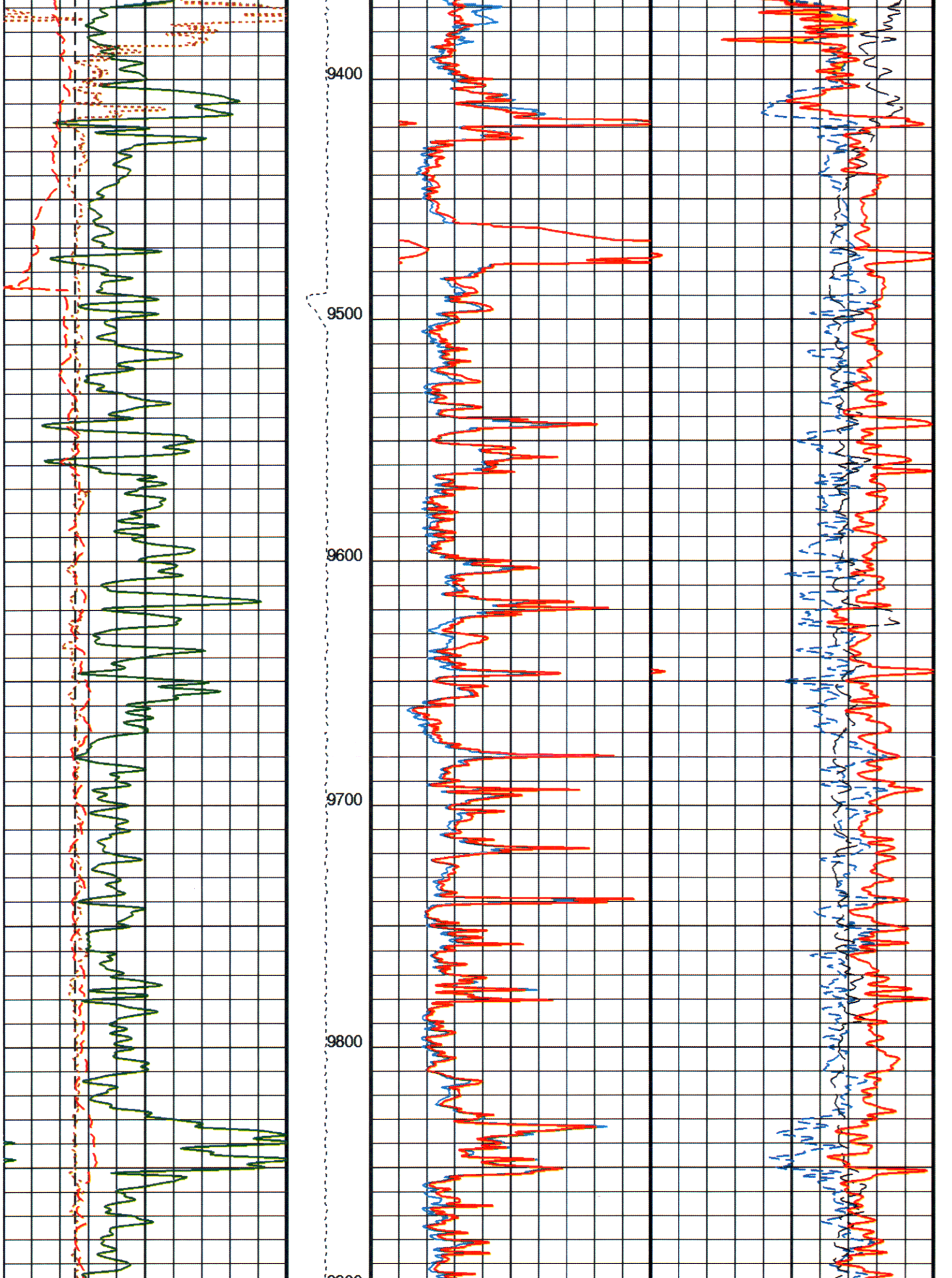
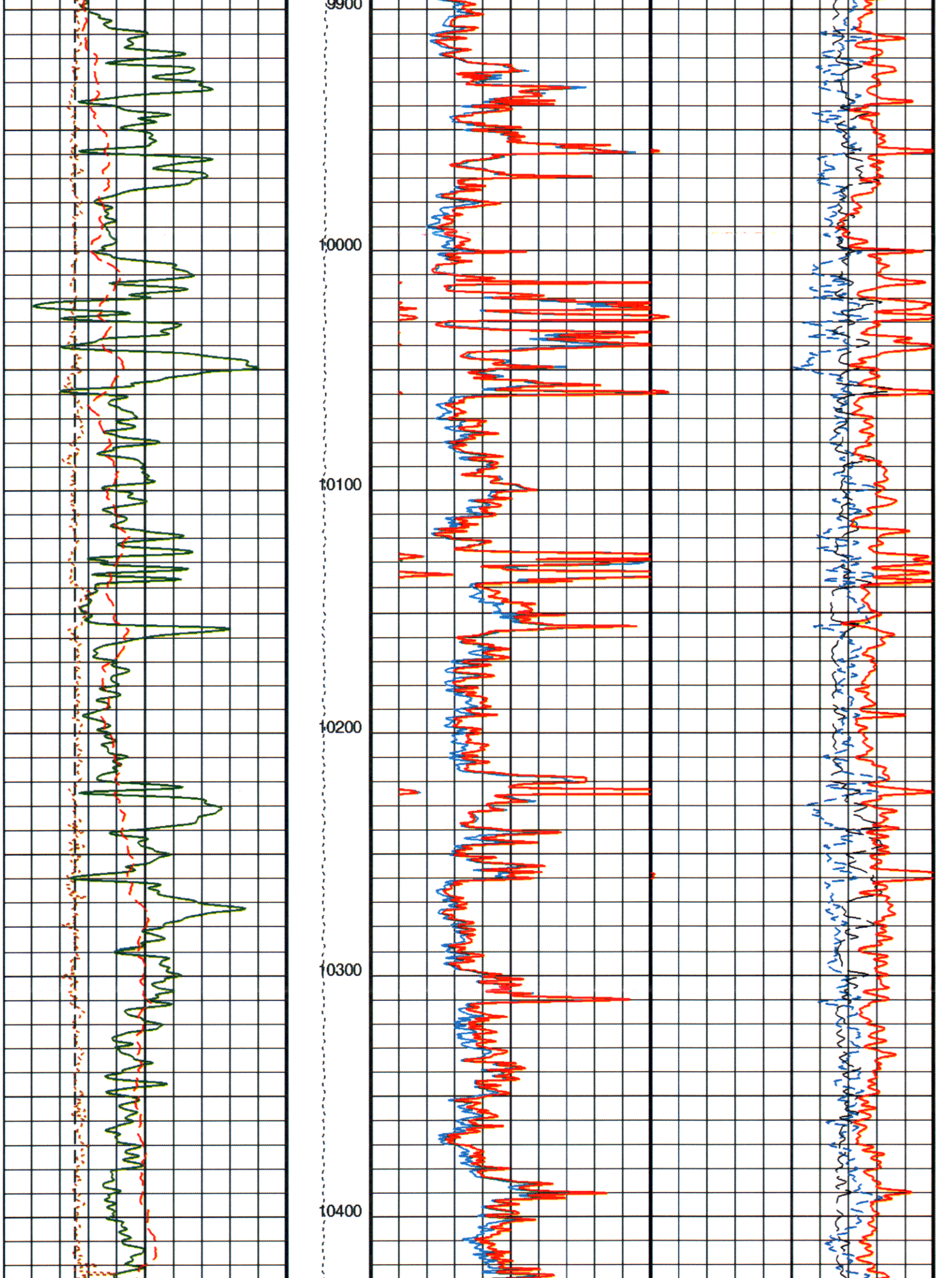
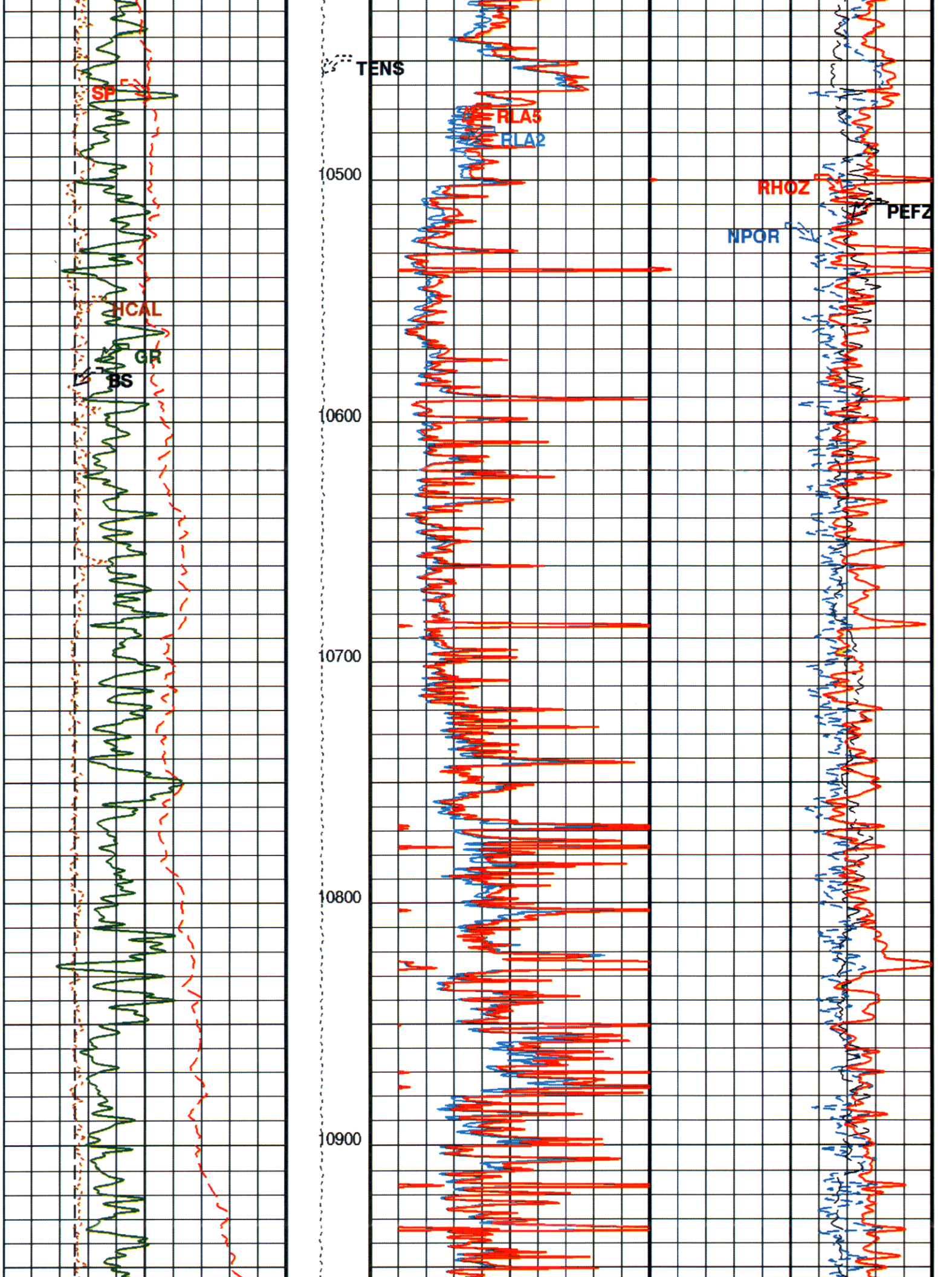
7900
8000
8100
8200
8300

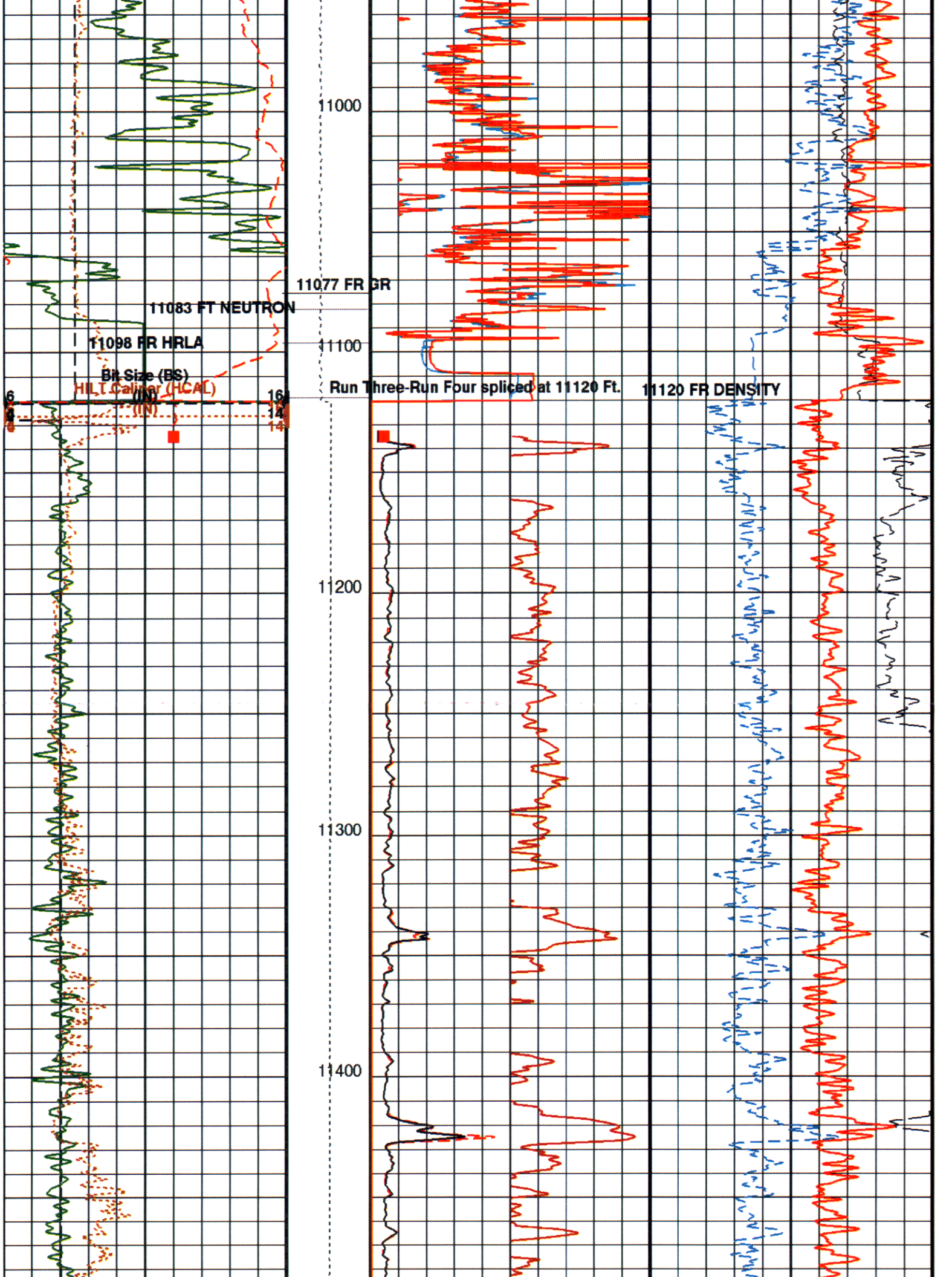

8400
8500
8600
8700
8800
Run Two - Run Three spliced at 8500 Ft.
8475 FR NEUTRON
8487 FR HRLA
FR TLD
FR SP
Bit Size (BS)
HILT Caliper (HCAL)
(IN)
10
20
6
16

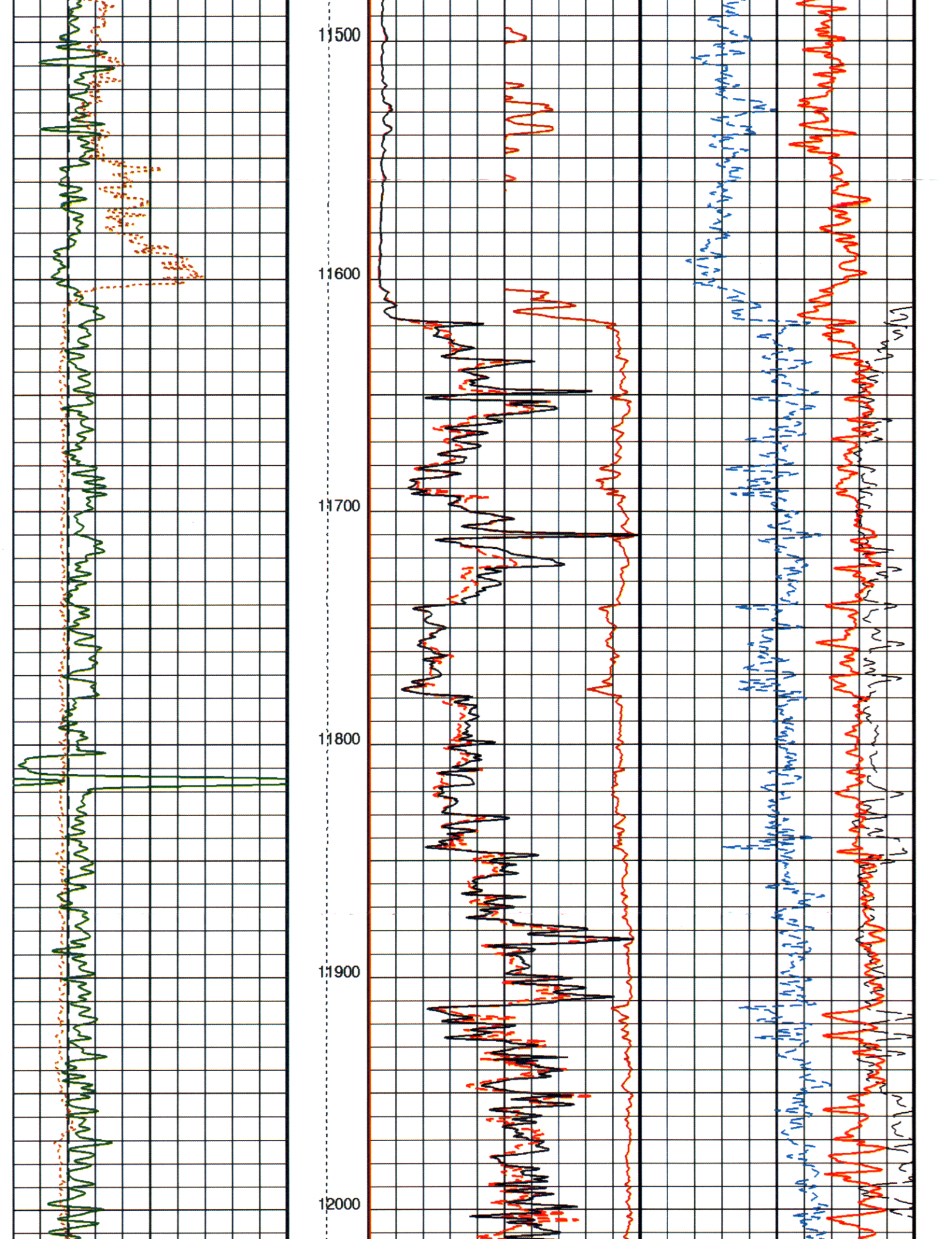

8900
9000
9100
9200
9300

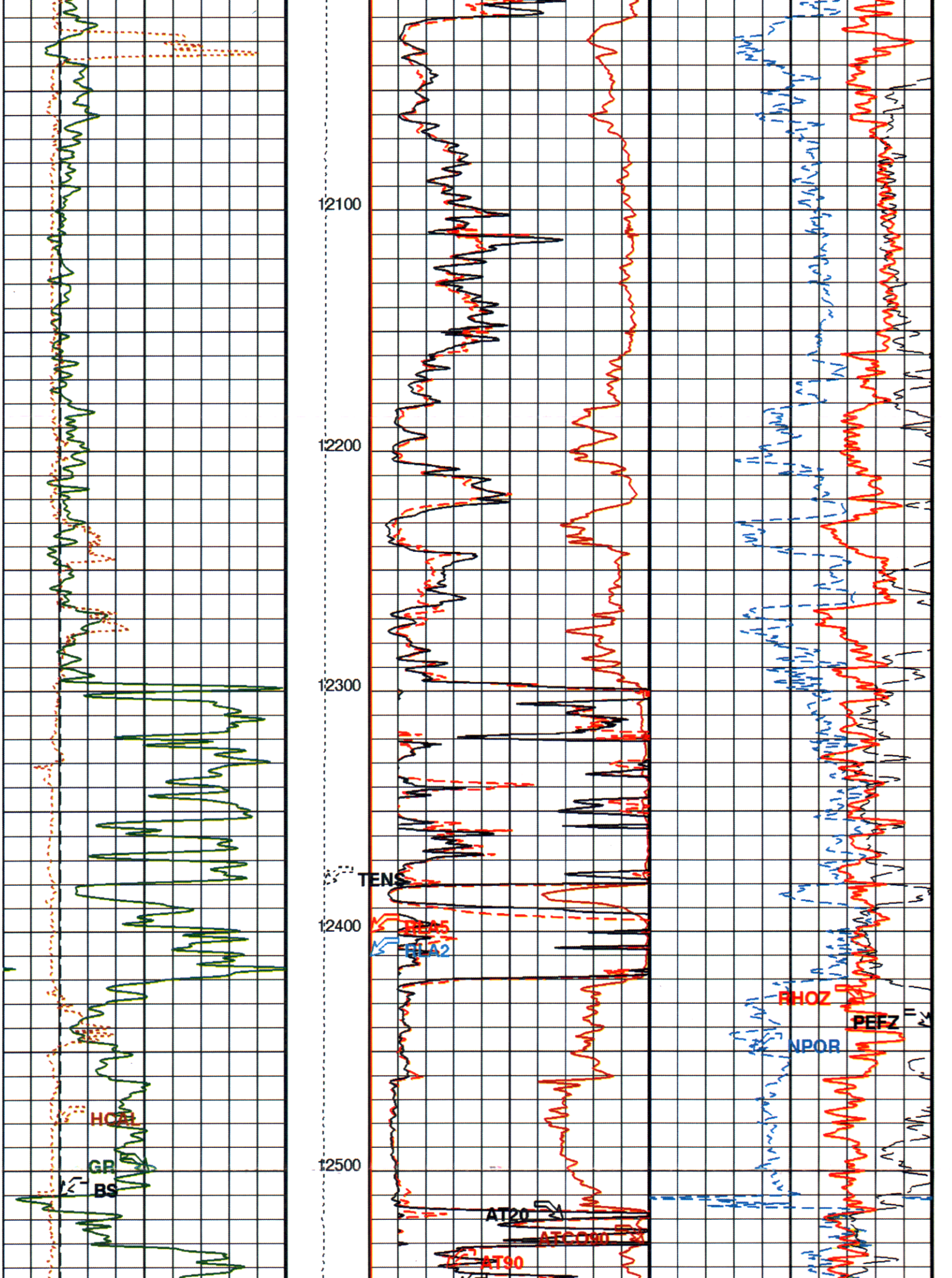

9400
9500
9600
9700
9800

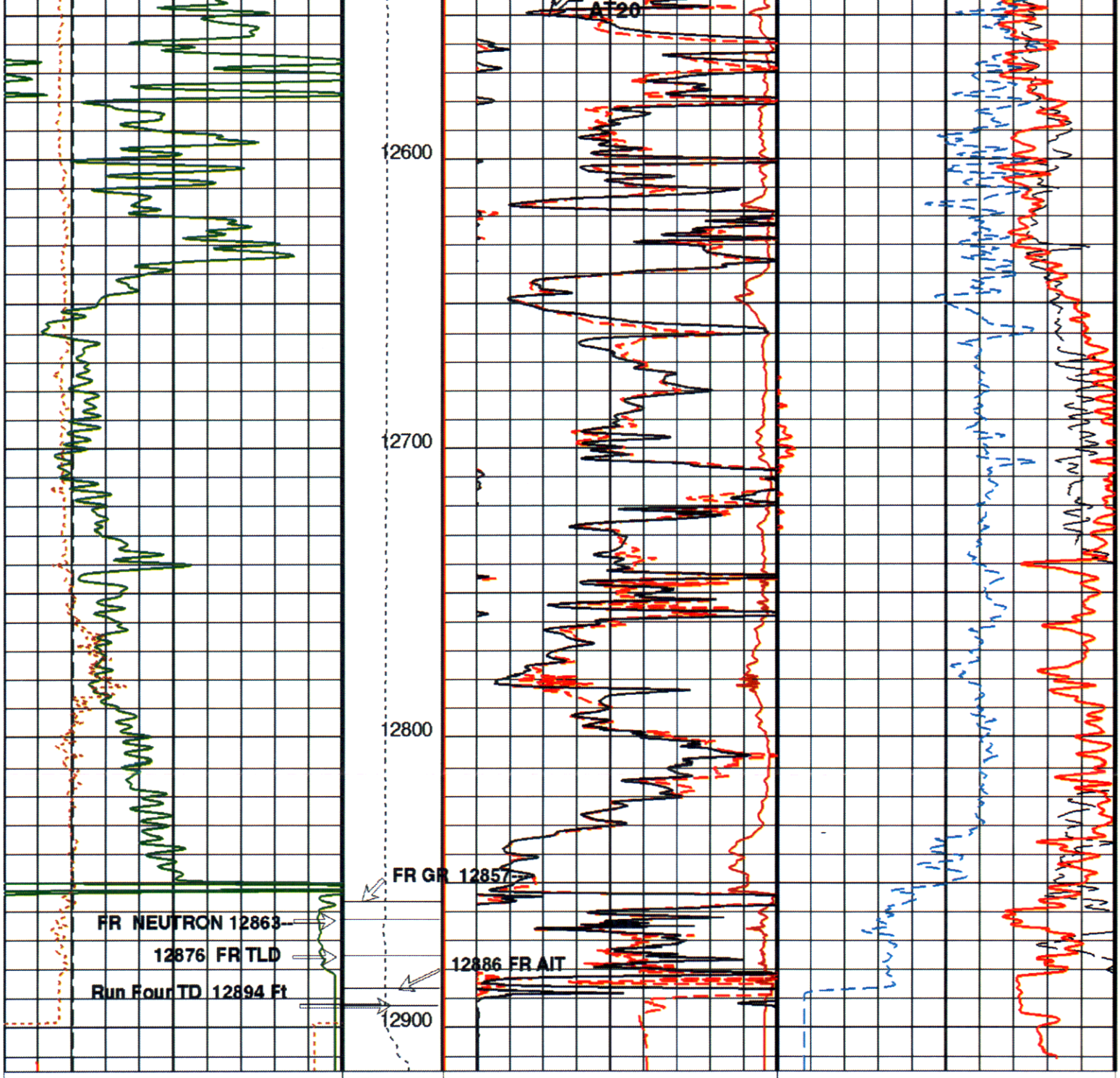

9900
10000
10100
10200
10300
10400


SP
HCAL
GR
BS
TENS
RLA5
RLA2
10500
10600
10700
10800
10900
RHOZ
PEFZ
NPOR


11000
11077 FR GR
11083 FT NEUTRON
11098 FR HRLA
11100
Bit Size (BS)
HILT Caliper (HCAL)
(IN)
(IN)
6
4
6
16
14
14
Run Three-Run Four spliced at 11120 Ft.
11120 FR DENSITY
11200
11300
11400


11500
11600
11700
11800
11900
12000


12100
12200
12300
12400
12500
TENS
HCAL
GR
BS
RHOZ
PEFZ
NPOR
AT20
AT90



Bit Size (BS) 4 (IN) 14	Tension (TENS) (LBF) 10000 0	AIT 20 Inch Investigation (AT20) 0 (OHMM) 20
Gamma Ray (GR) 20 (GAPI) 170		AIT 90 Inch Investigation (AT90) 0 (OHMM) 20
HILT Caliper (HCAL) 4 (IN) 14		AIT 20 Inch Investigation (AT20) 0 (OHMM) 20
SP (SP) 0 (MV) -100		HRLT Resistivity 2 (RLA2) 0 (OHMM) 20
		HRLT Resistivity 5 (RLA5) 0 (OHMM) 20
		AIT 90 Inch Investigation Conductivity

Alpha Processed Neutron Porosity (NPOR) 0.6 (V/V) 0	
Std. Res. Formation Density (RHOZ) 1.68 (G/C3) 2.68	
Cross-Over From RHOZ to NPOR	
	Std. Res. Formation Pe (PEFZ) 0 (----) 10

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Conductivity (ATCO90)	
1000 (MM/M)	0

Parameters

DLIS Name	Description	Value	
HAIT-H: Array Induction Tool - H			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
SPA-A: SP ADAPTOR			
SPNV	SP Next Value	0	MV
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
KFAC_HRLT	HRLT K Factor Option	SONDE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	1_ComputeElectricalDiameter	
ABHV	Array Induction Borehole Correction Code Version Number	0	

ABHV	Array Induction Borehole Correction Code Version Number	0	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	0	
ACDE	Array Induction Casing Detection Enable	No	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	No version available	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	No version available	
ARFV	Array Induction Radial Profiling Code Version Number	0	
ARPV	Array Induction Radial Parametrization Code Version Number	0	
ASTA	Array Induction Tool Standoff	0.25	IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	No version available	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	No version available	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
HRLT-B: High Resolution Laterolog Array - B			
KFAC_HRLT	HRLT K Factor Option	SONDE	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	11127.00	FT
System and Miscellaneous			
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	40000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	53.50	LB/F
DFD	Drilling Fluid Density	11.50	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	54.30	DEGF
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	0.1740	OHMM
TD	Total Depth	11127	FT

Format: PEX_2IN_LIN Vertical Scale: 2" per 100' Graphics File Created: 18-Feb-2011 08:09

OP System Version: 18C0-147

HAIT-H	18C0-147	SPA-A	18C0-147
HILTB-FTB	18C0-147	EDTC-B	18C0-147
AIT-M	18C0-147	HRLT-B	18C0-147
HNGC-B	18C0-147	HNGS-BA	18C0-147
GPIT-F	18C0-147		

Input DLIS Files

DEFAULT	SPLICE_AIT_TLD_MCFL_126	FN:1	PRODUCER	18-Feb-2011 06:44	12915.0 FT	178.0 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_IS_139PUP	FN:13	PRODUCER	18-Feb-2011 08:09

Input DLIS Files

DEFAULT	SPLICE_AIT_TLD_MCFL_126	FN:1	PRODUCER	18-Feb-2011 06:44	12915.0 FT	178.0 FT

Output DLIS Files

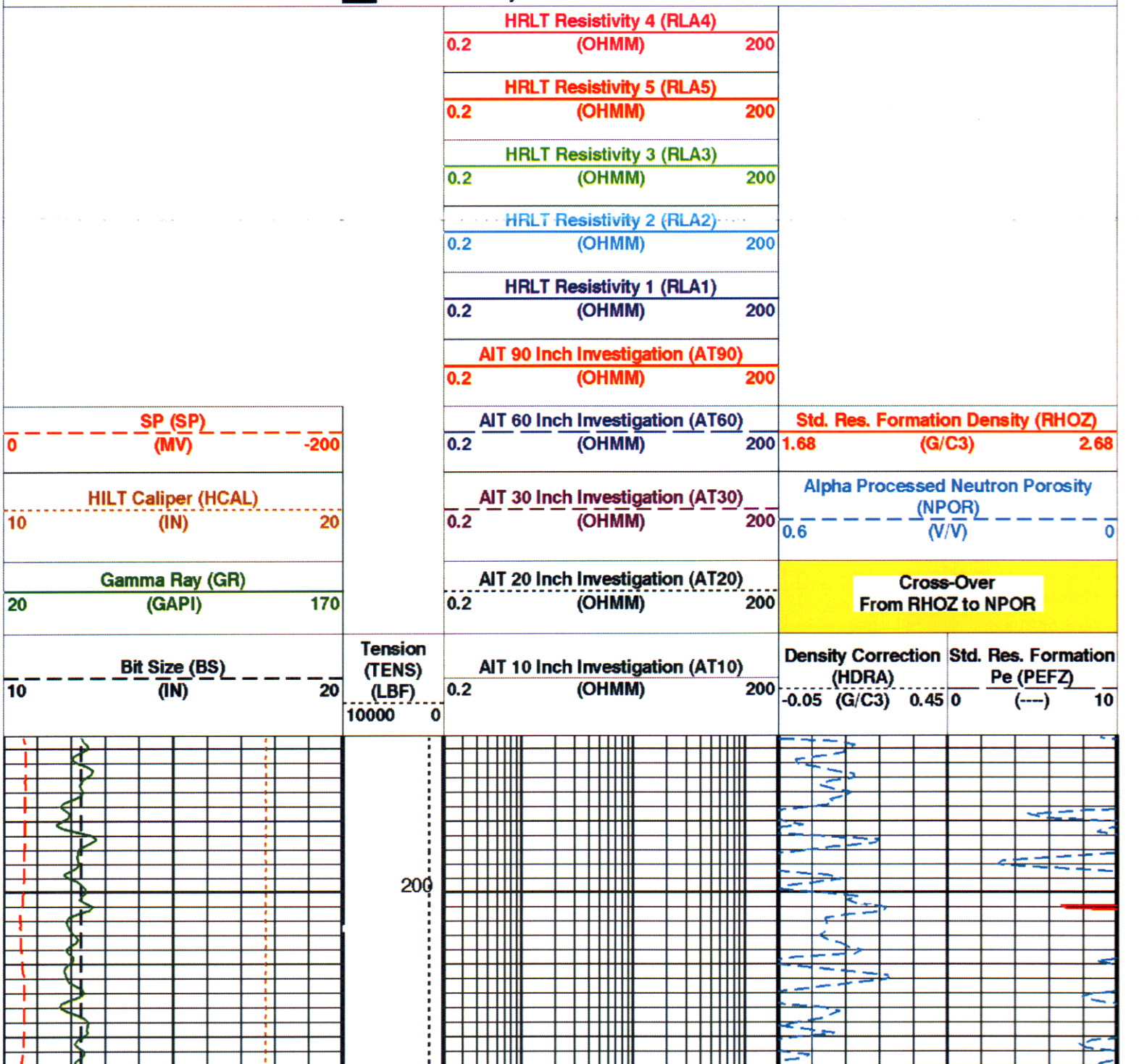
DEFAULT	AIT_TLD_MCFL_CNL_IS_139PUP	FN:13	PRODUCER	18-Feb-2011 08:09	12915.0 FT	178.0 FT

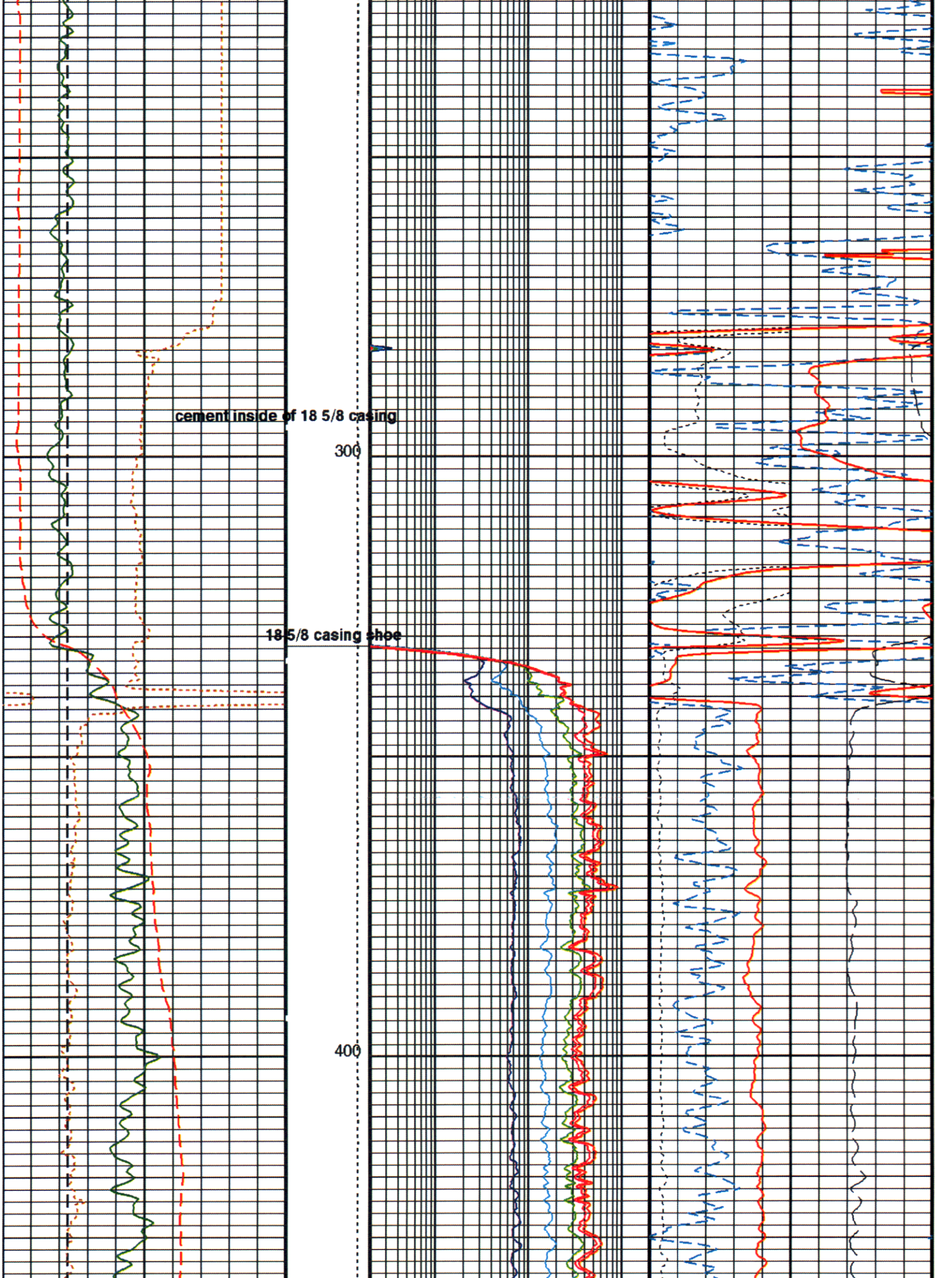
OP System Version: 18C0-147

HAIT-H	18C0-147	SPA-A	18C0-147
HILTB-FTB	18C0-147	EDTC-B	18C0-147
AIT-M	18C0-147	HRLT-B	18C0-147
HNGC-B	18C0-147	HNGS-BA	18C0-147
GPIT-F	18C0-147		

PIP SUMMARY

Time Mark Every 60 S




cement inside of 18 5/8 casing
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18 5/8 casing shoe
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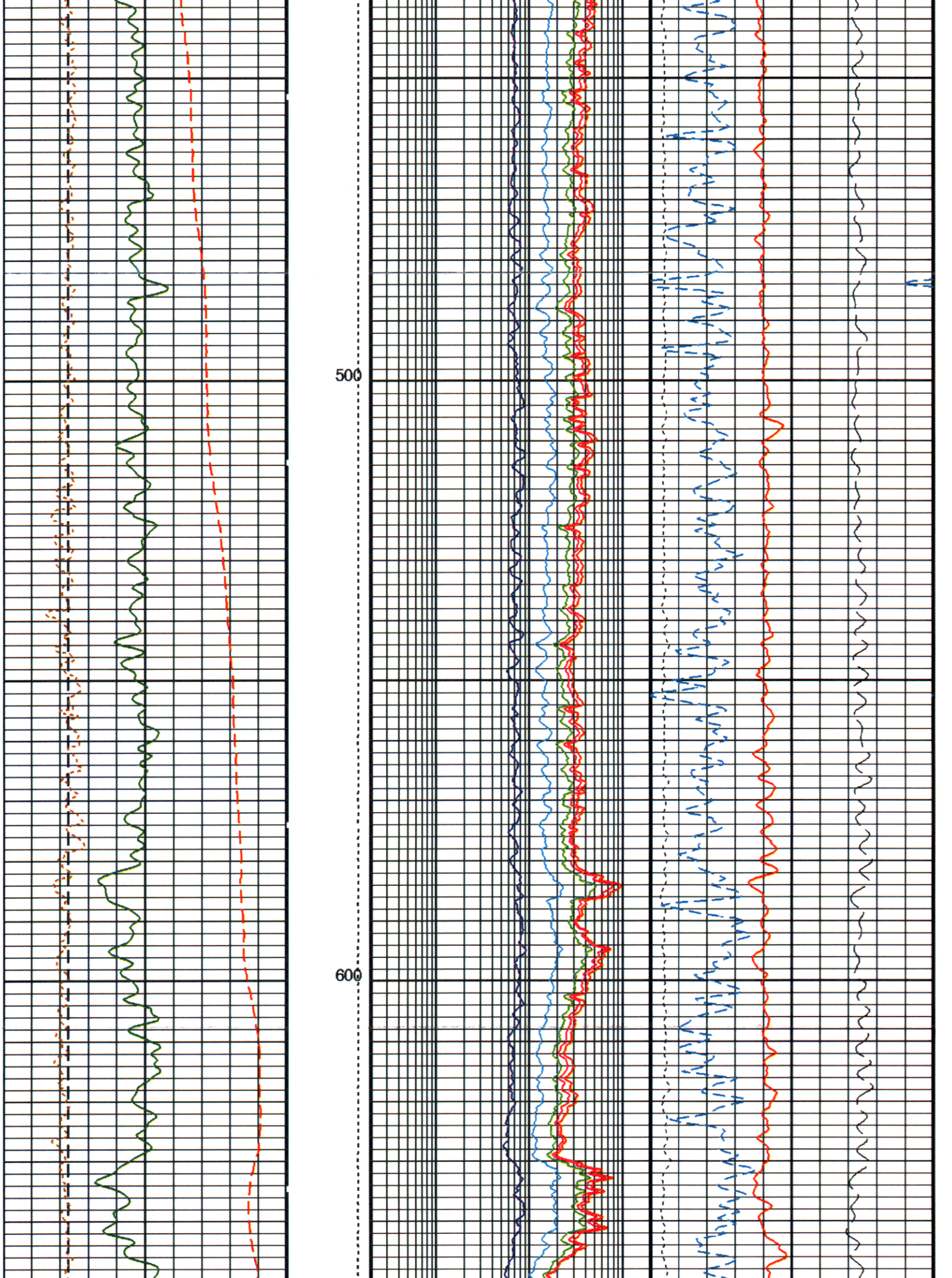
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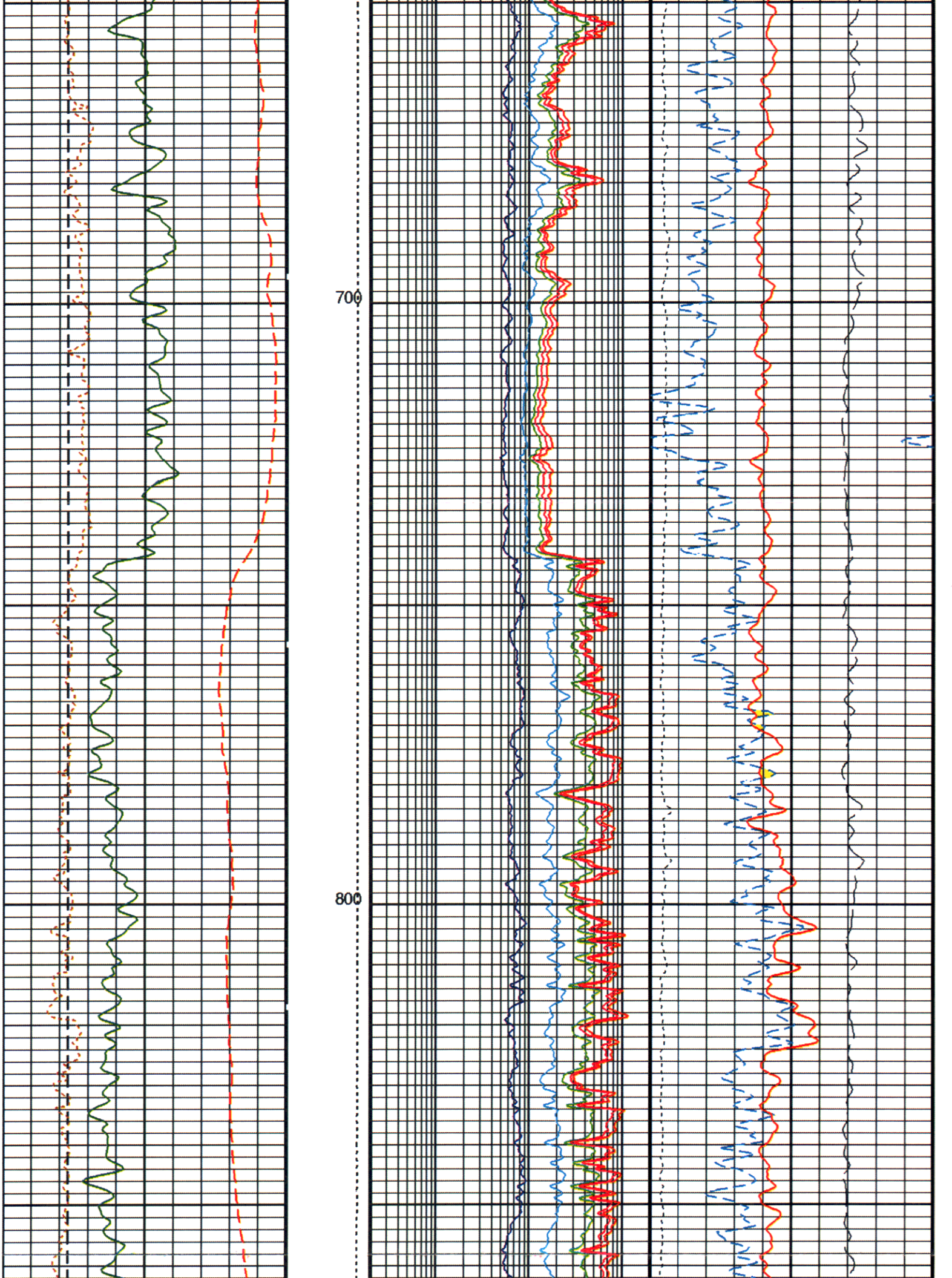
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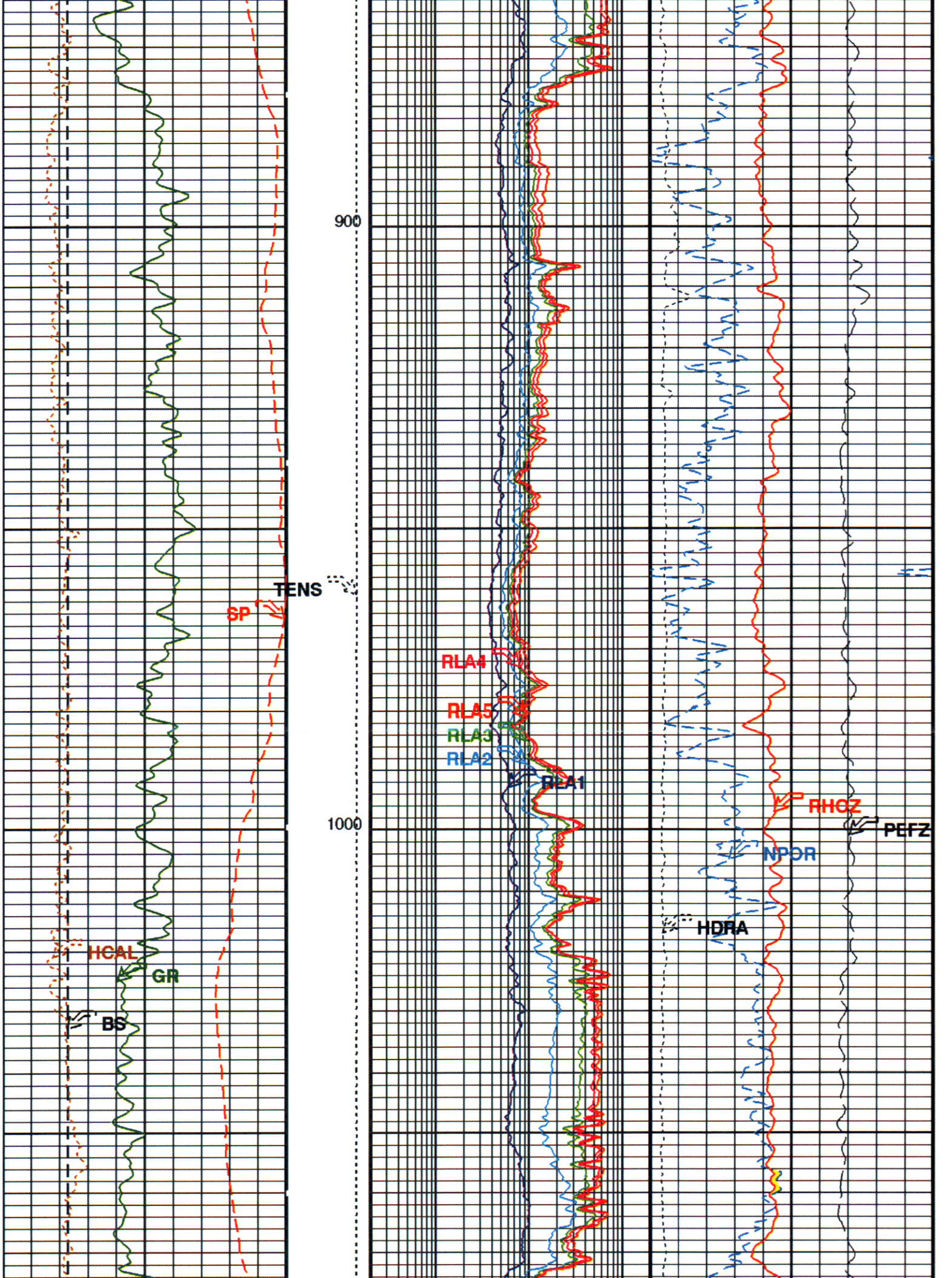
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RLA3
RLA2
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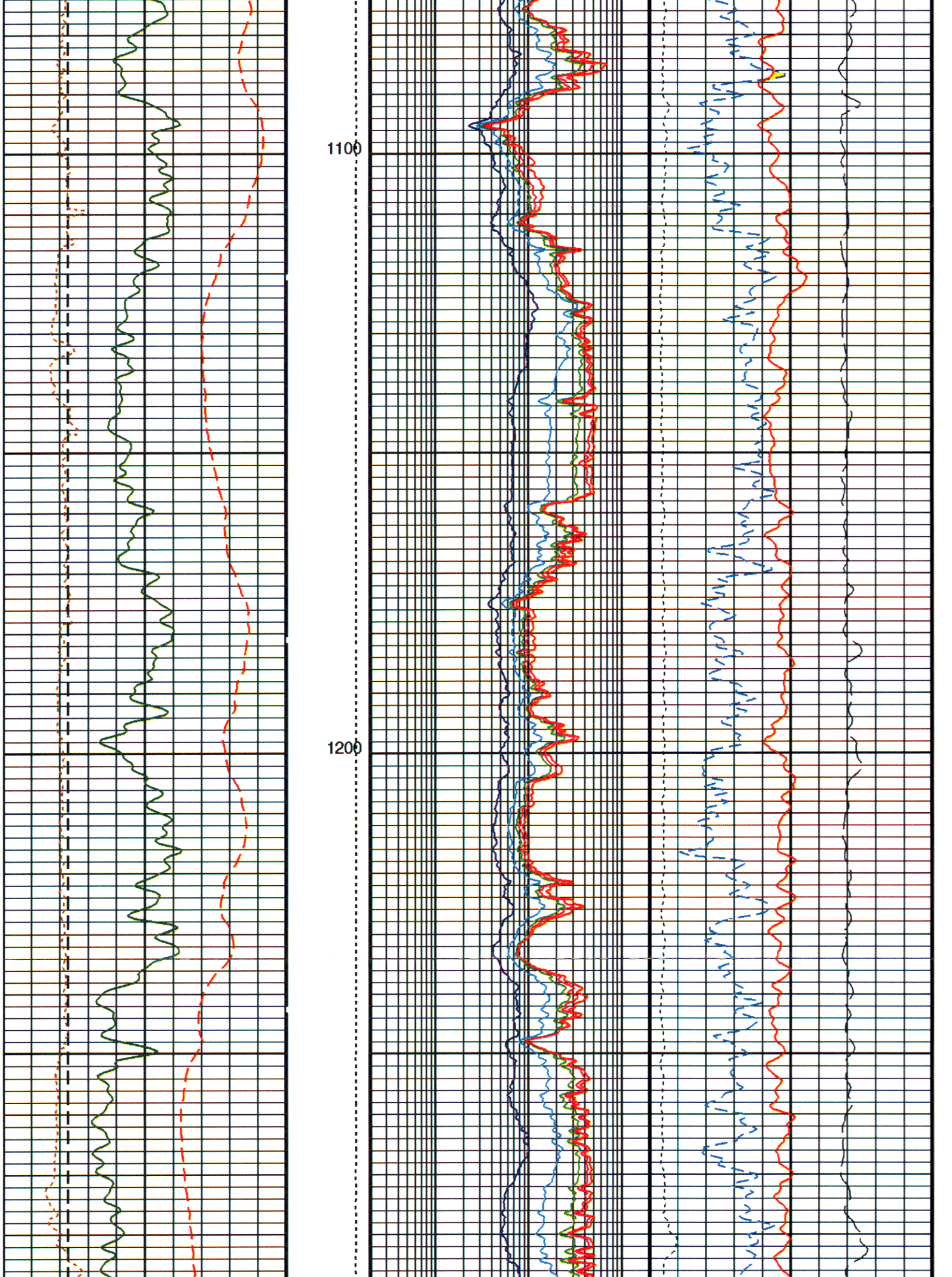
GR
BS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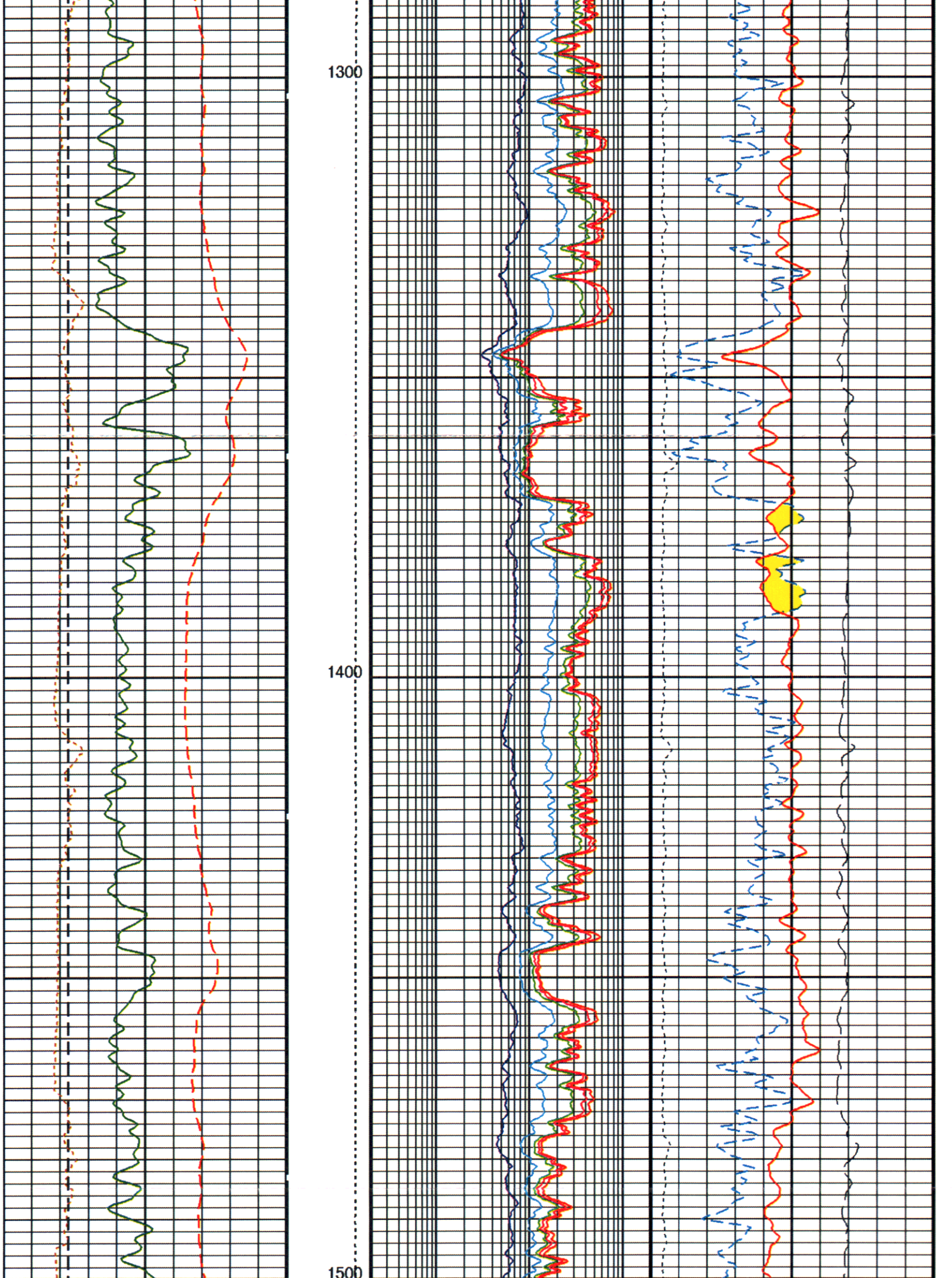
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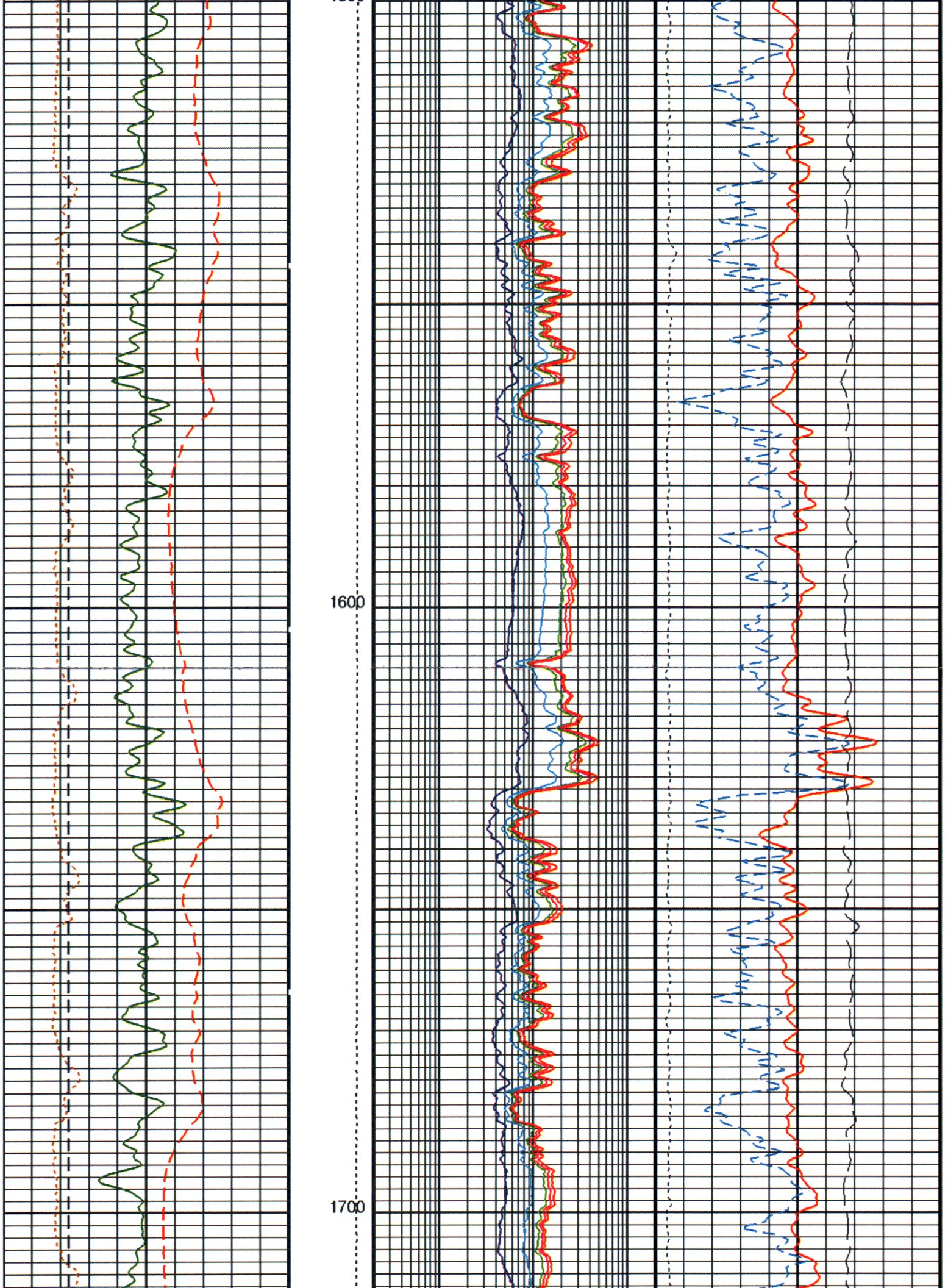
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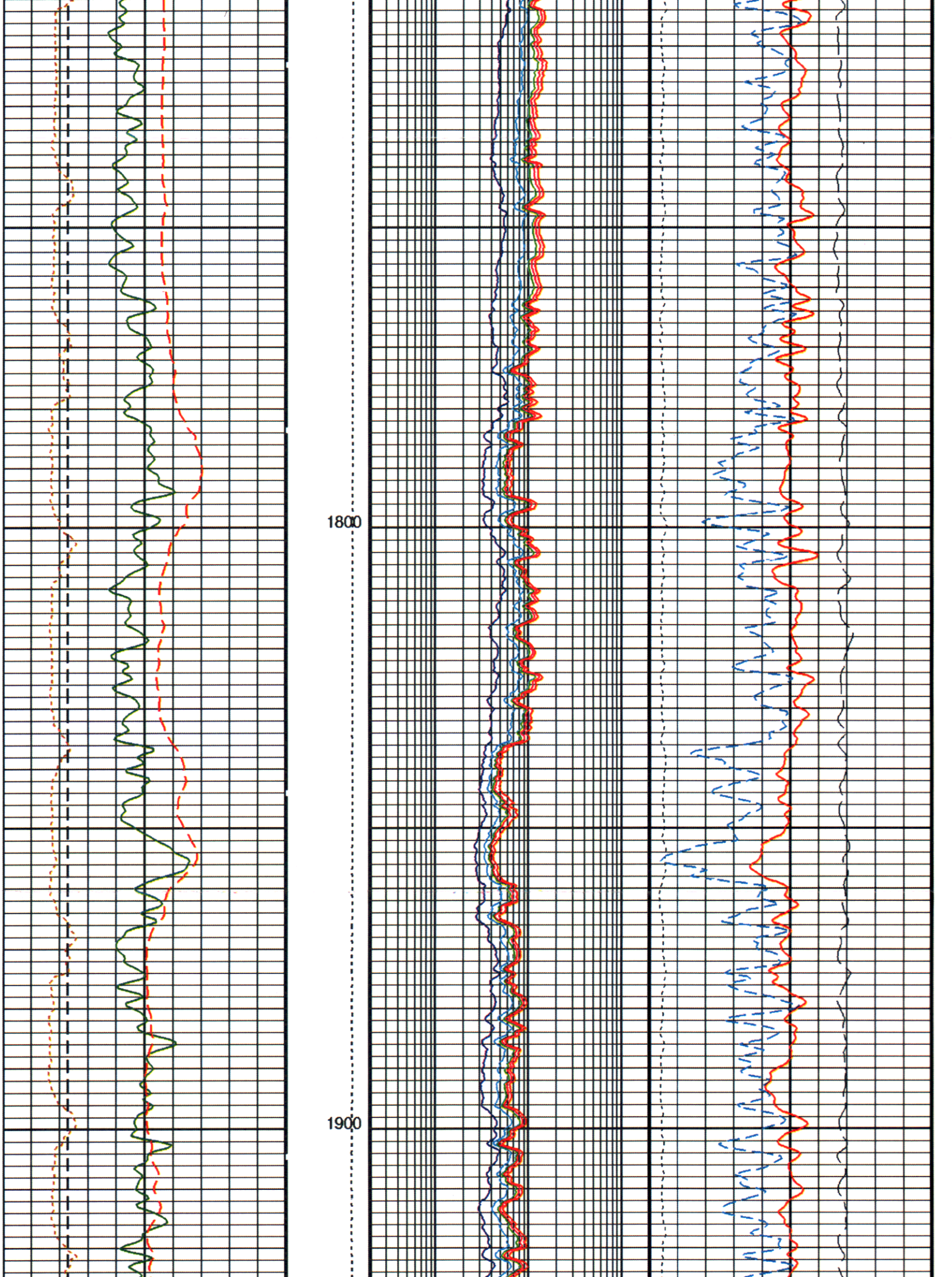
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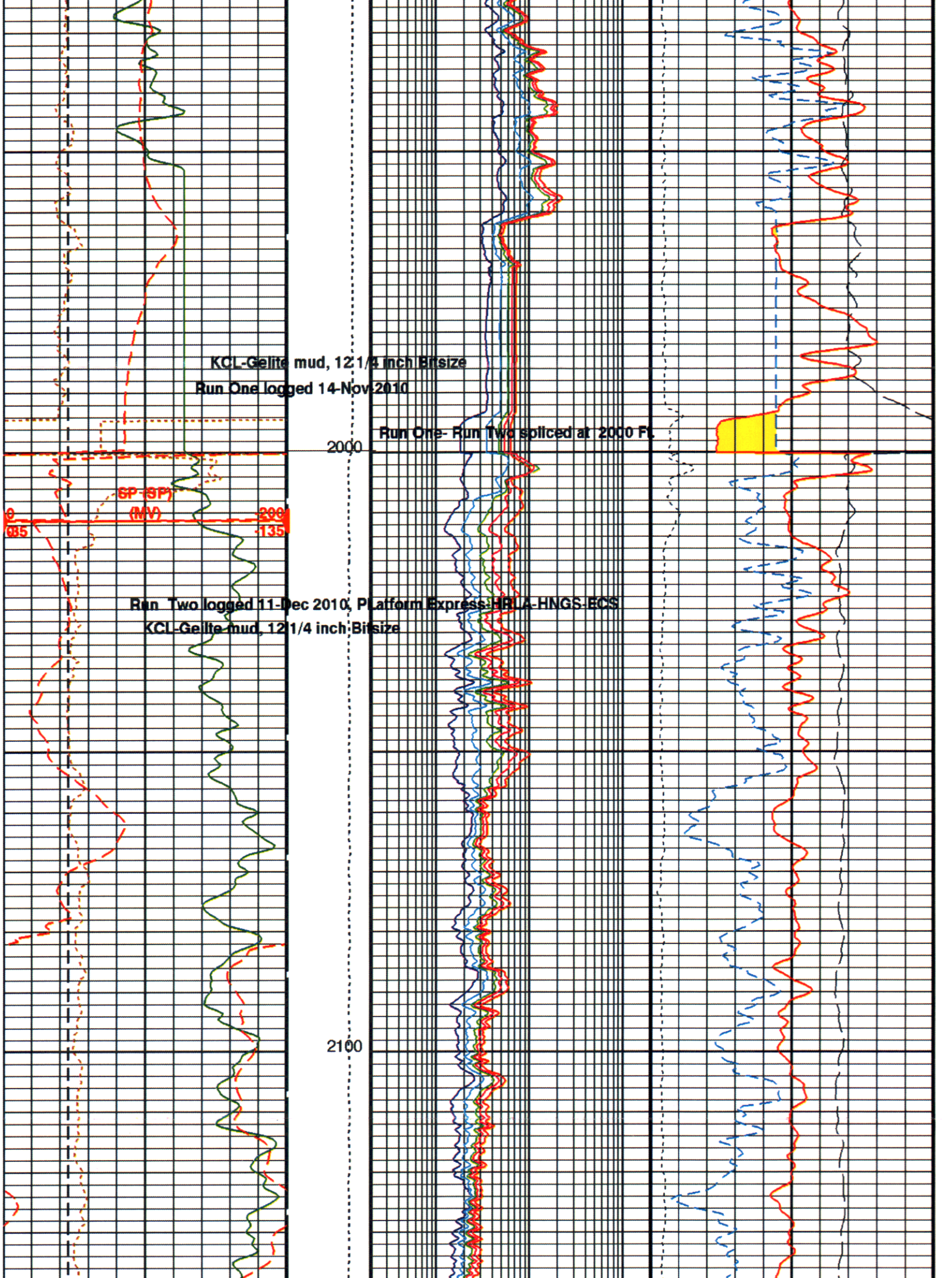
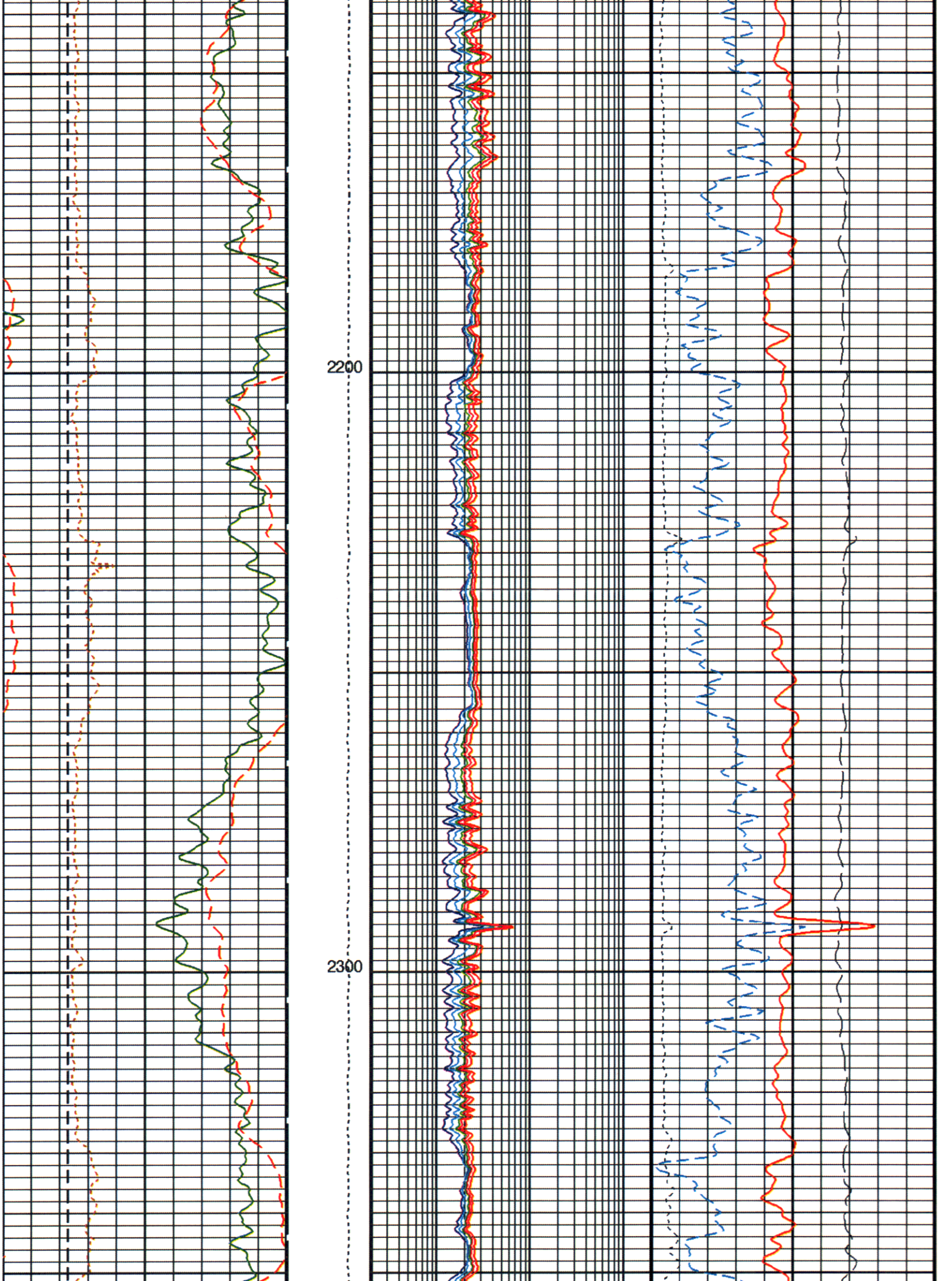

KCL-Gelite mud, 12 1/4 inch Bitsize
Run One logged 14-Nov-2010
Run One- Run Two spliced at 2000 Ft.
2000
SP (SP)
(MV)
0
-200
985
-135
Run Two logged 11-Dec 2010, Platform Express: HRLA-HNGS-ECS
KCL-Gelite mud, 12 1/4 inch Bitsize
2100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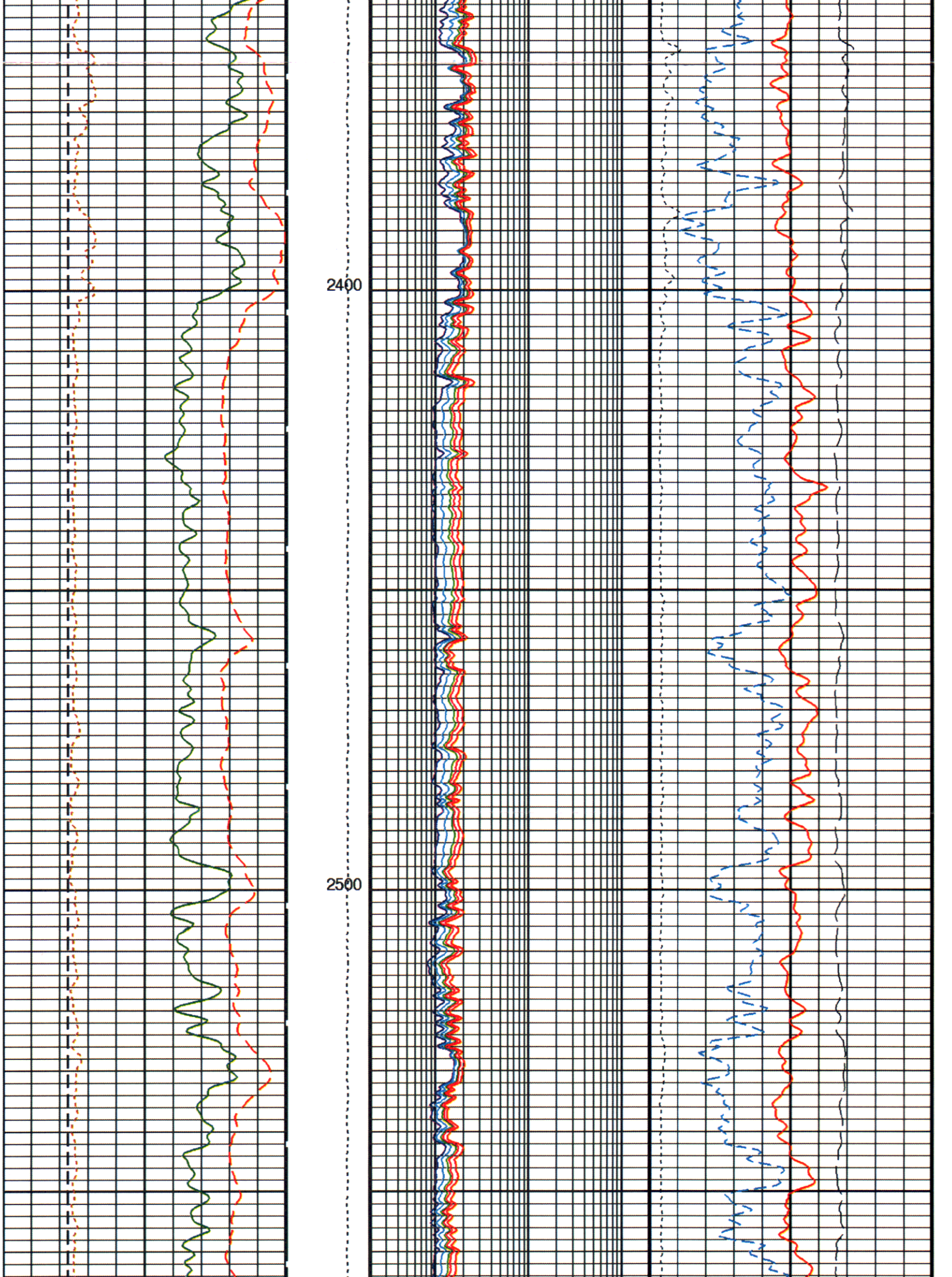
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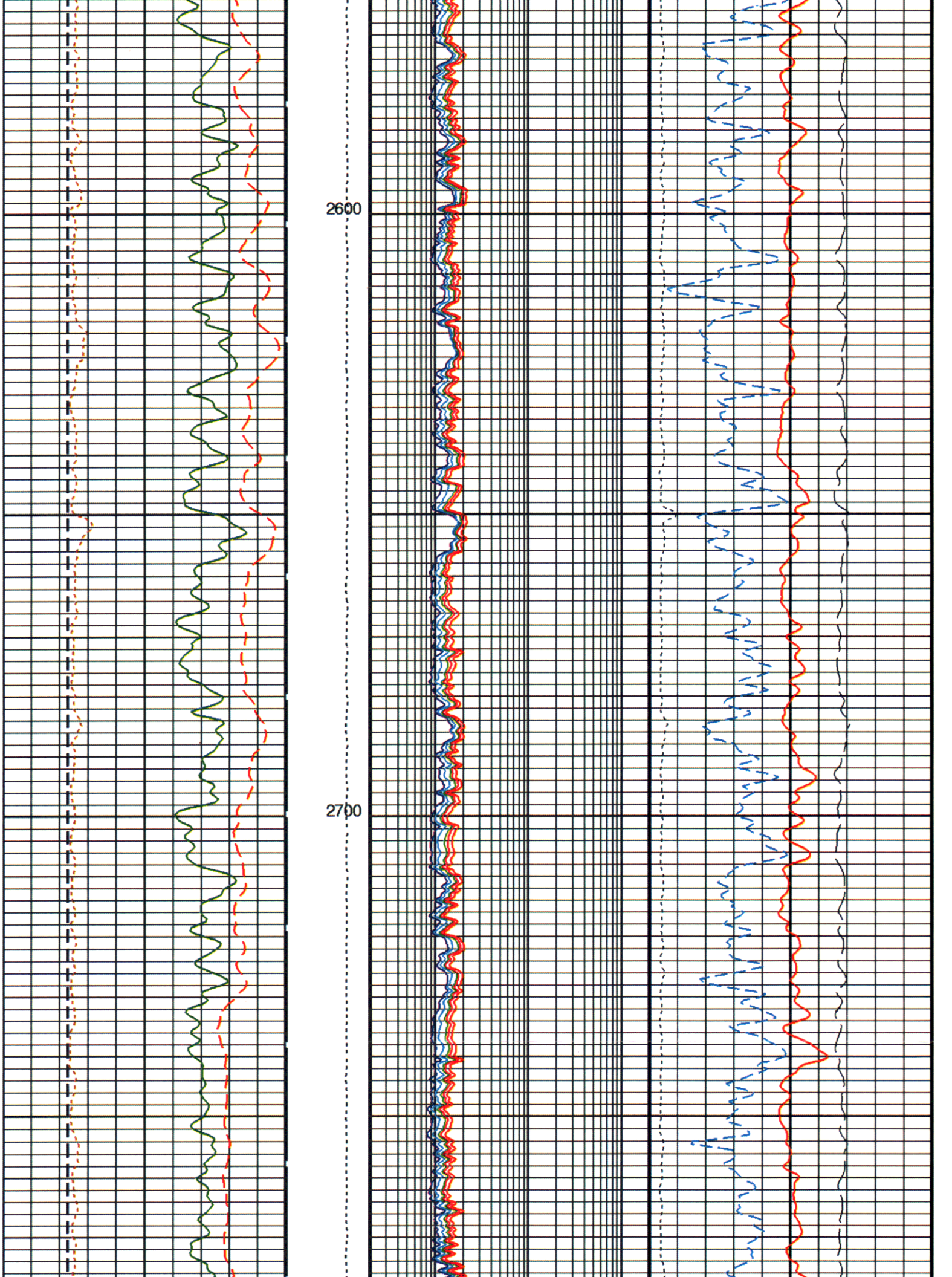
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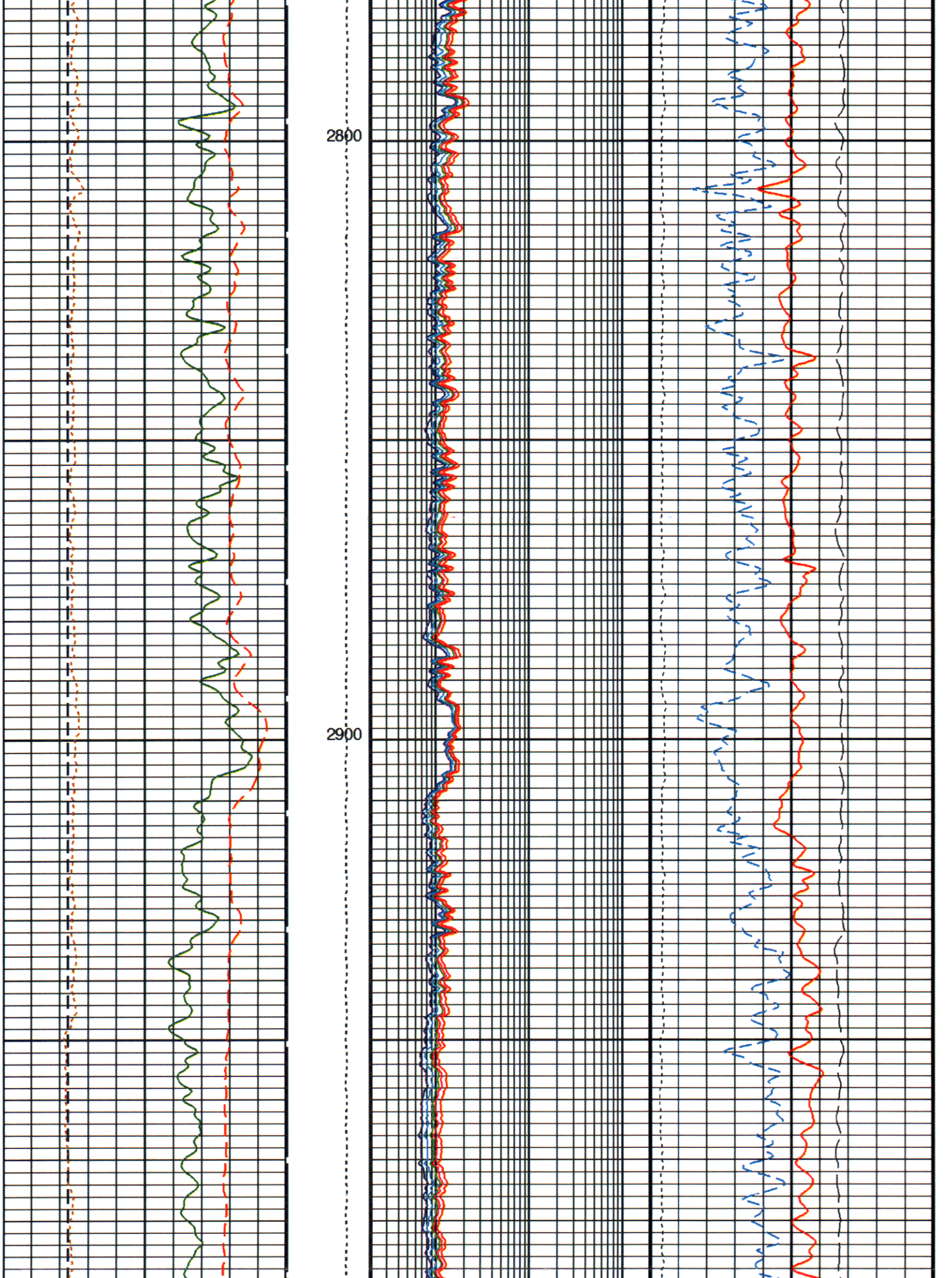
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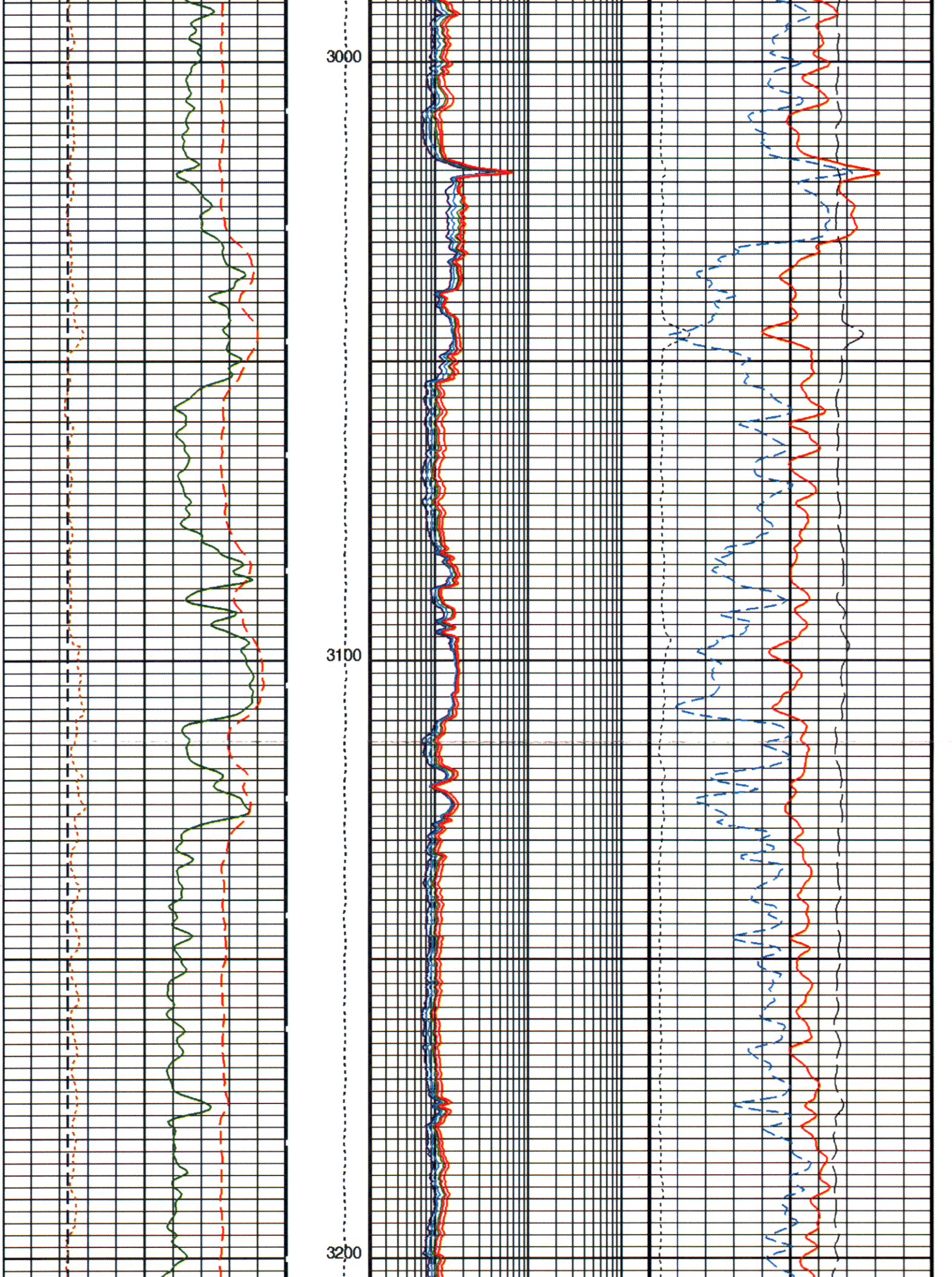
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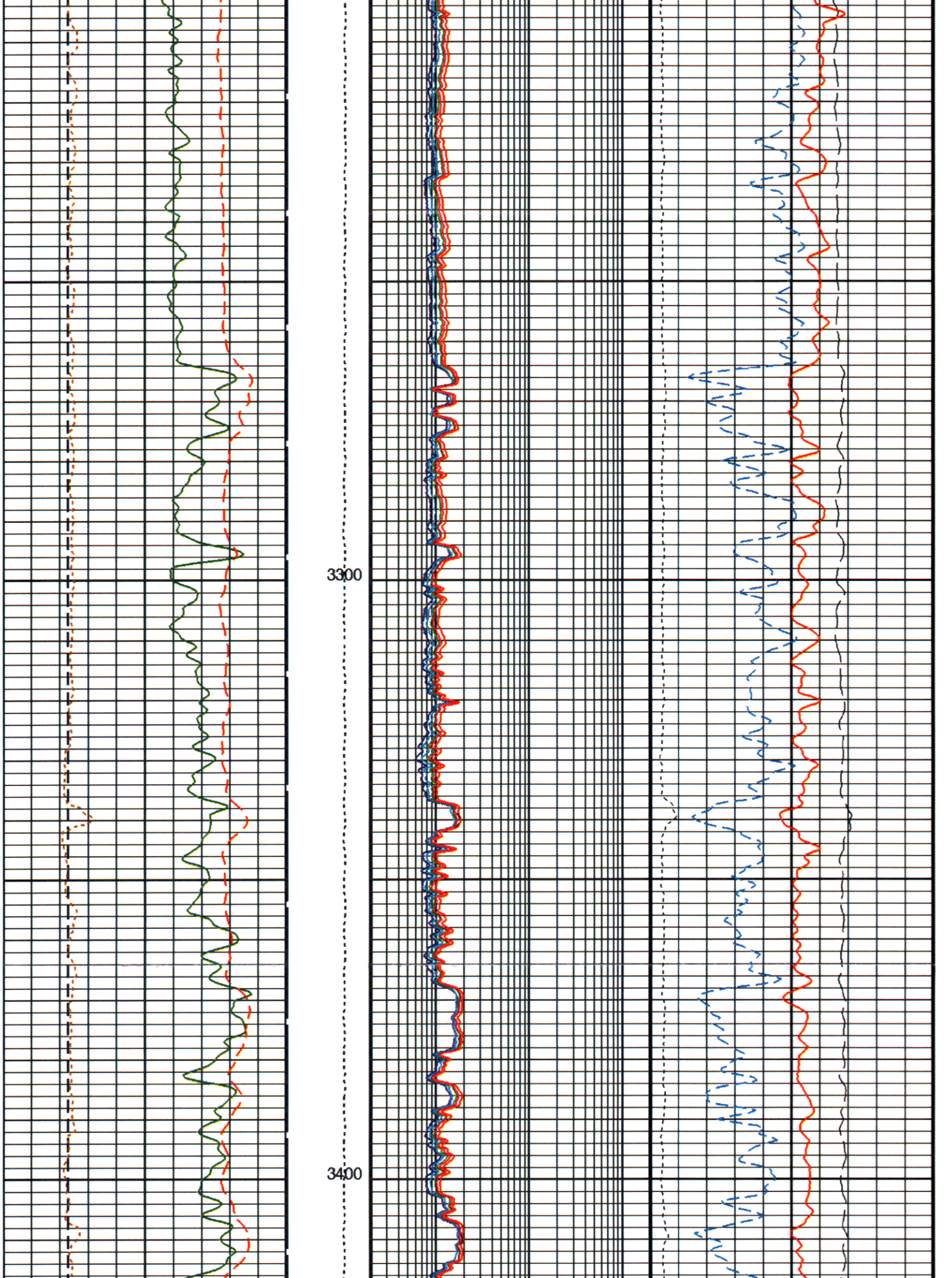
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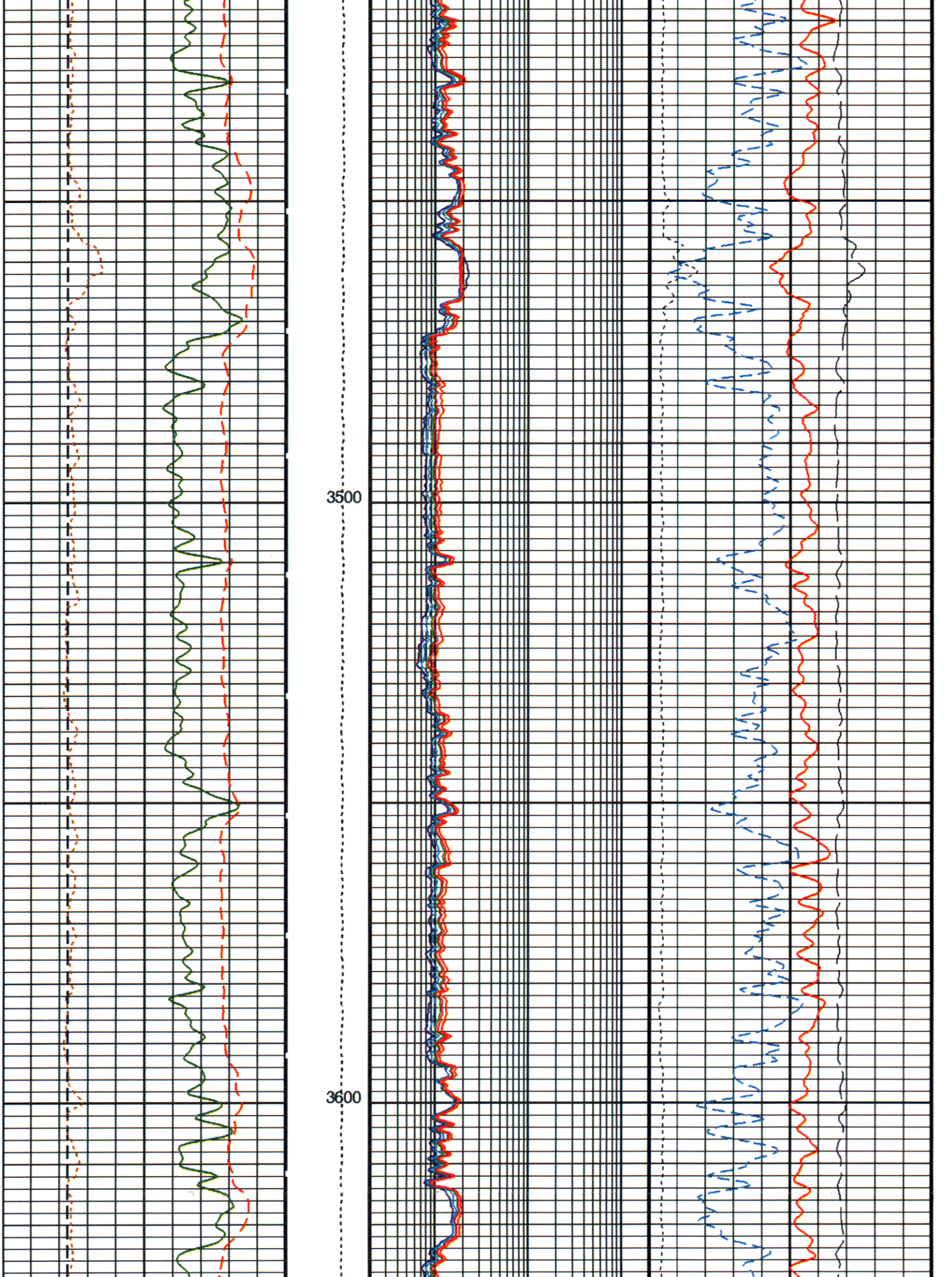
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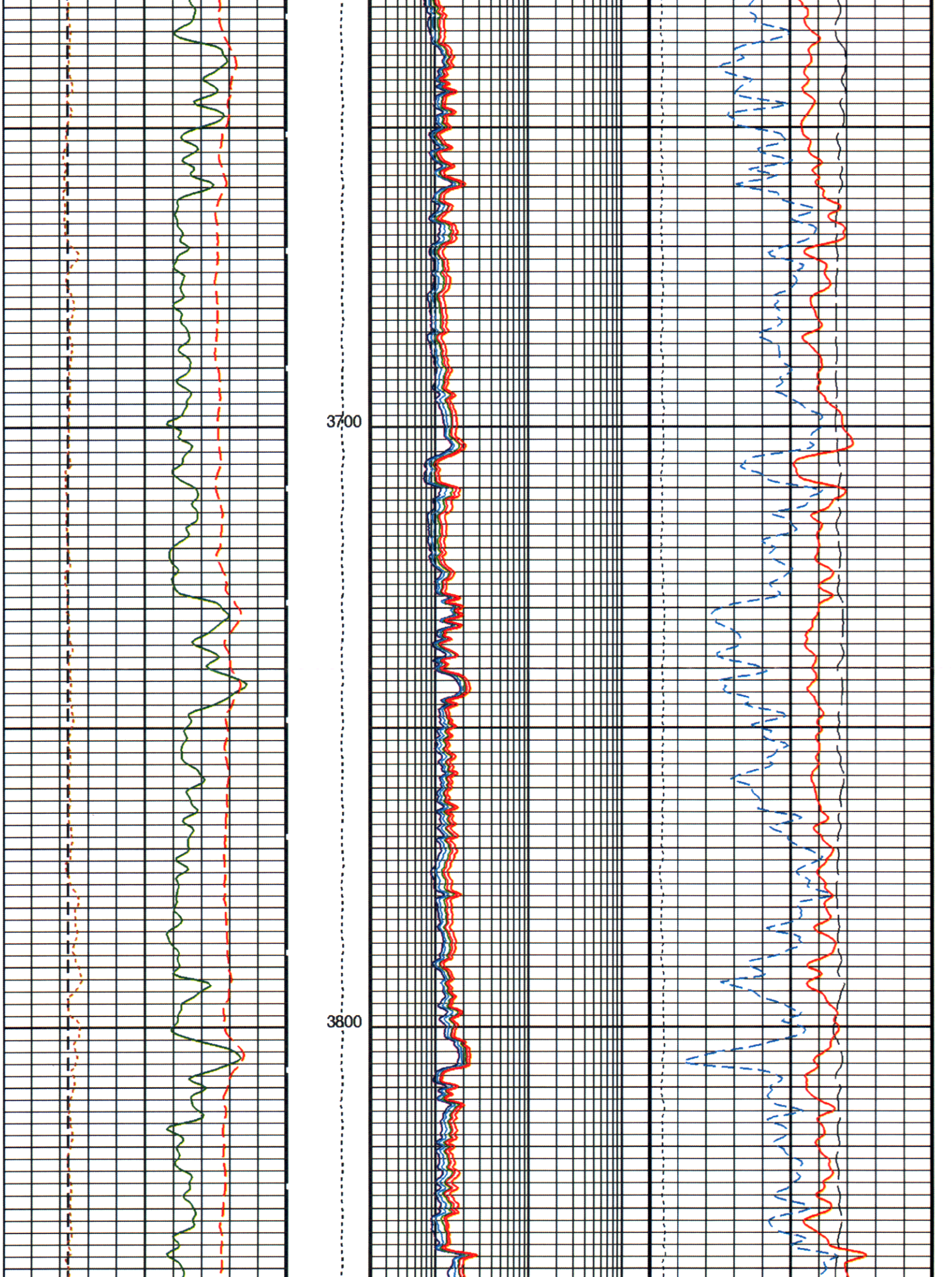
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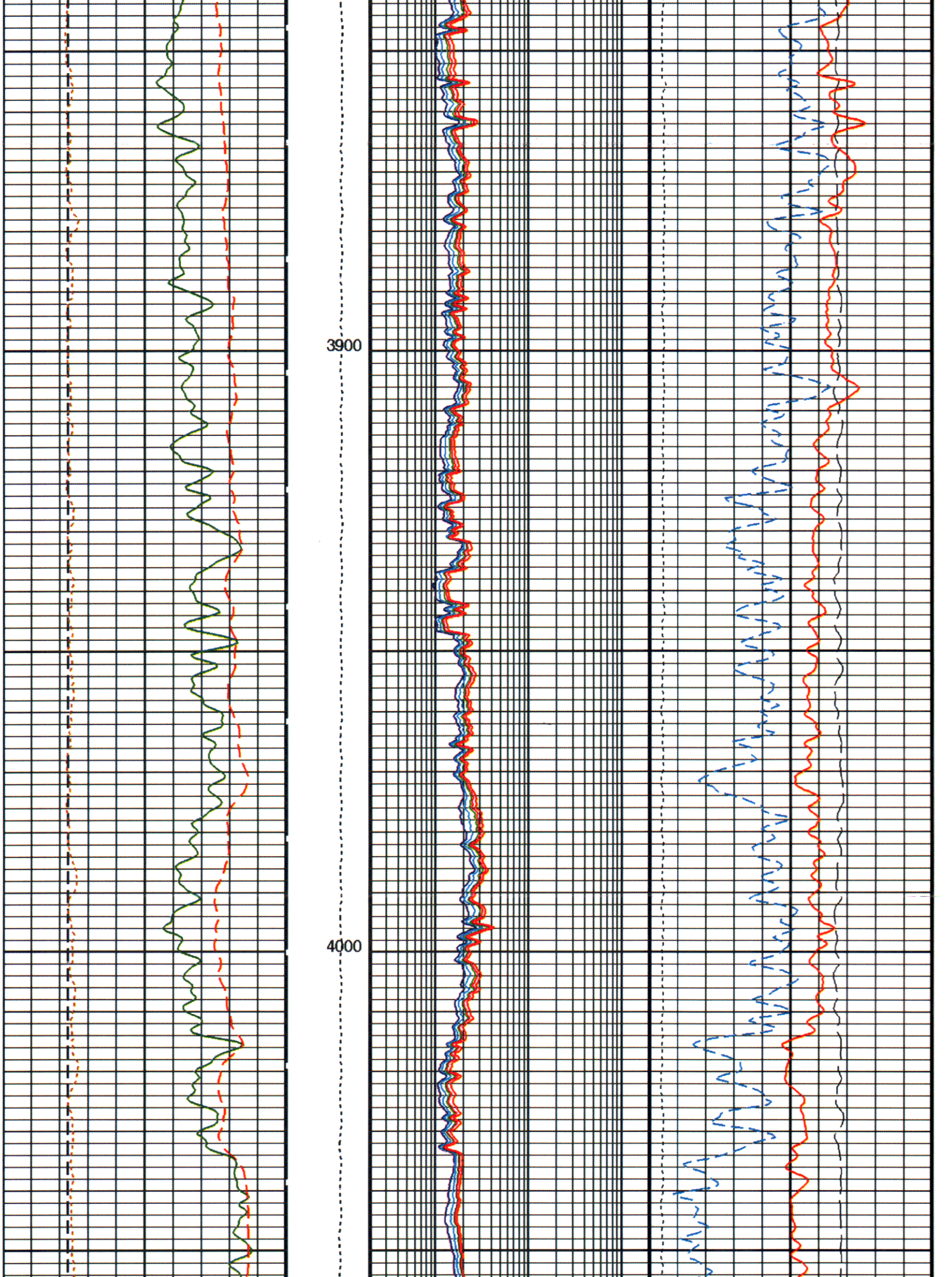
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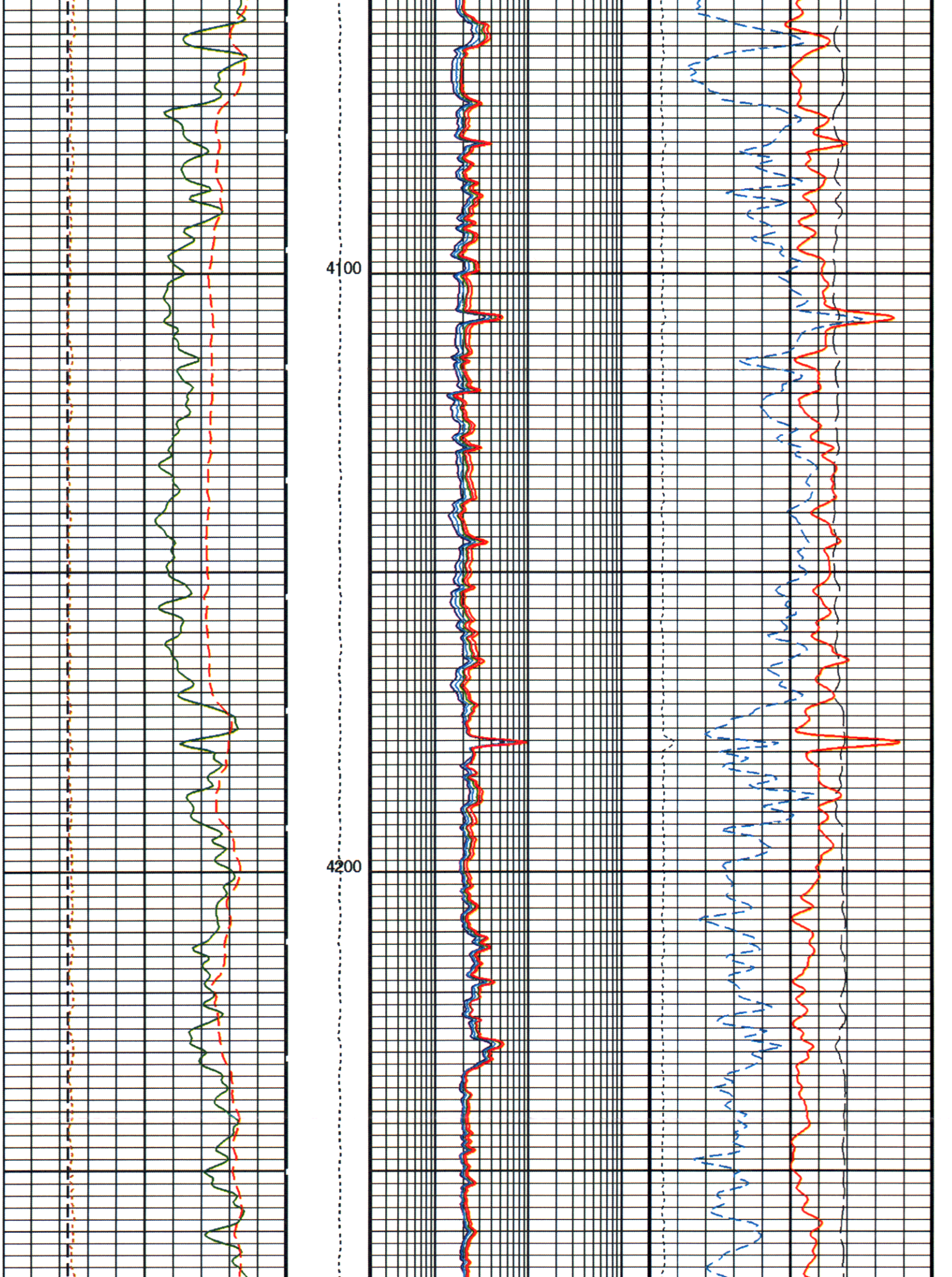
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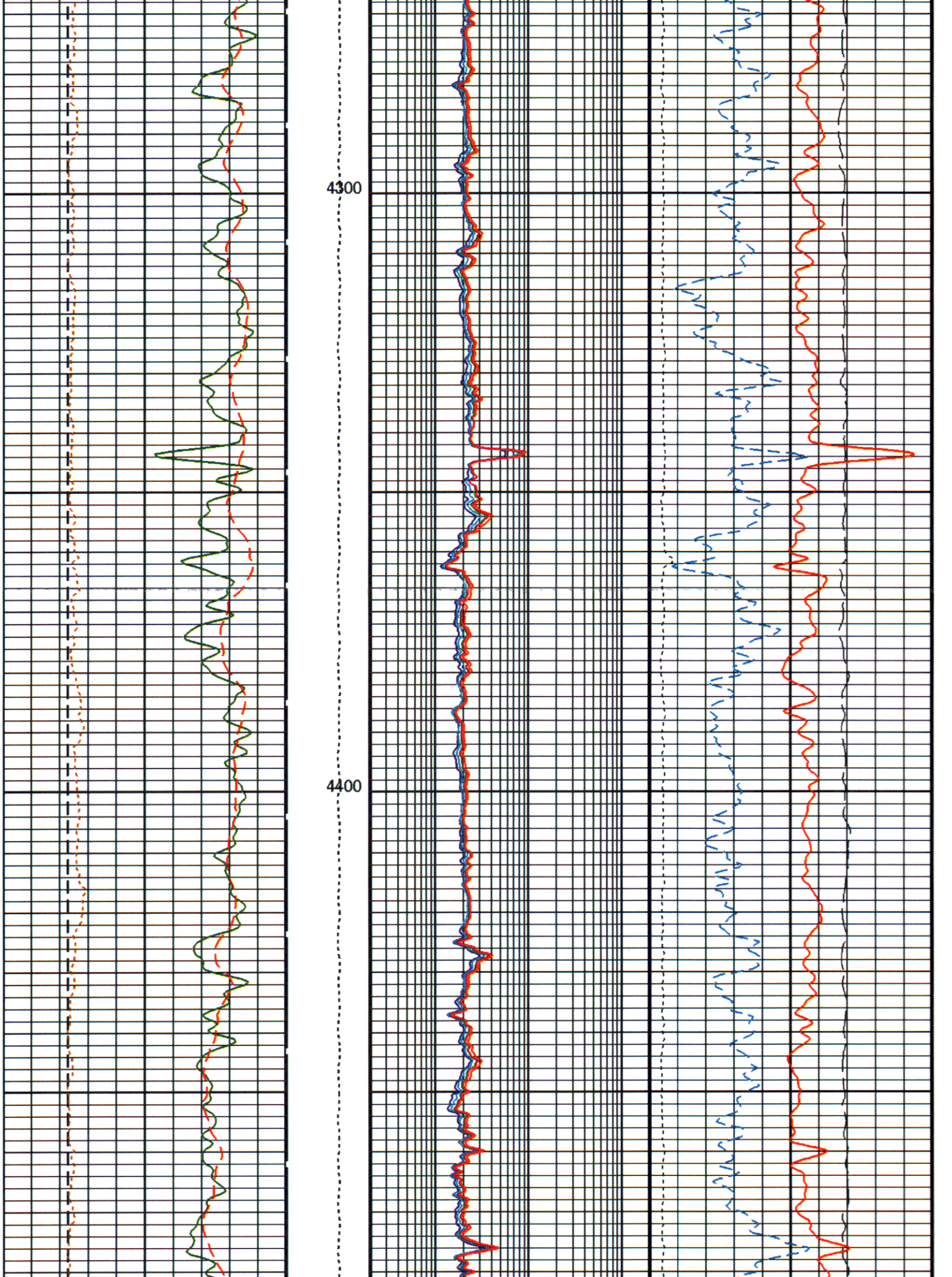
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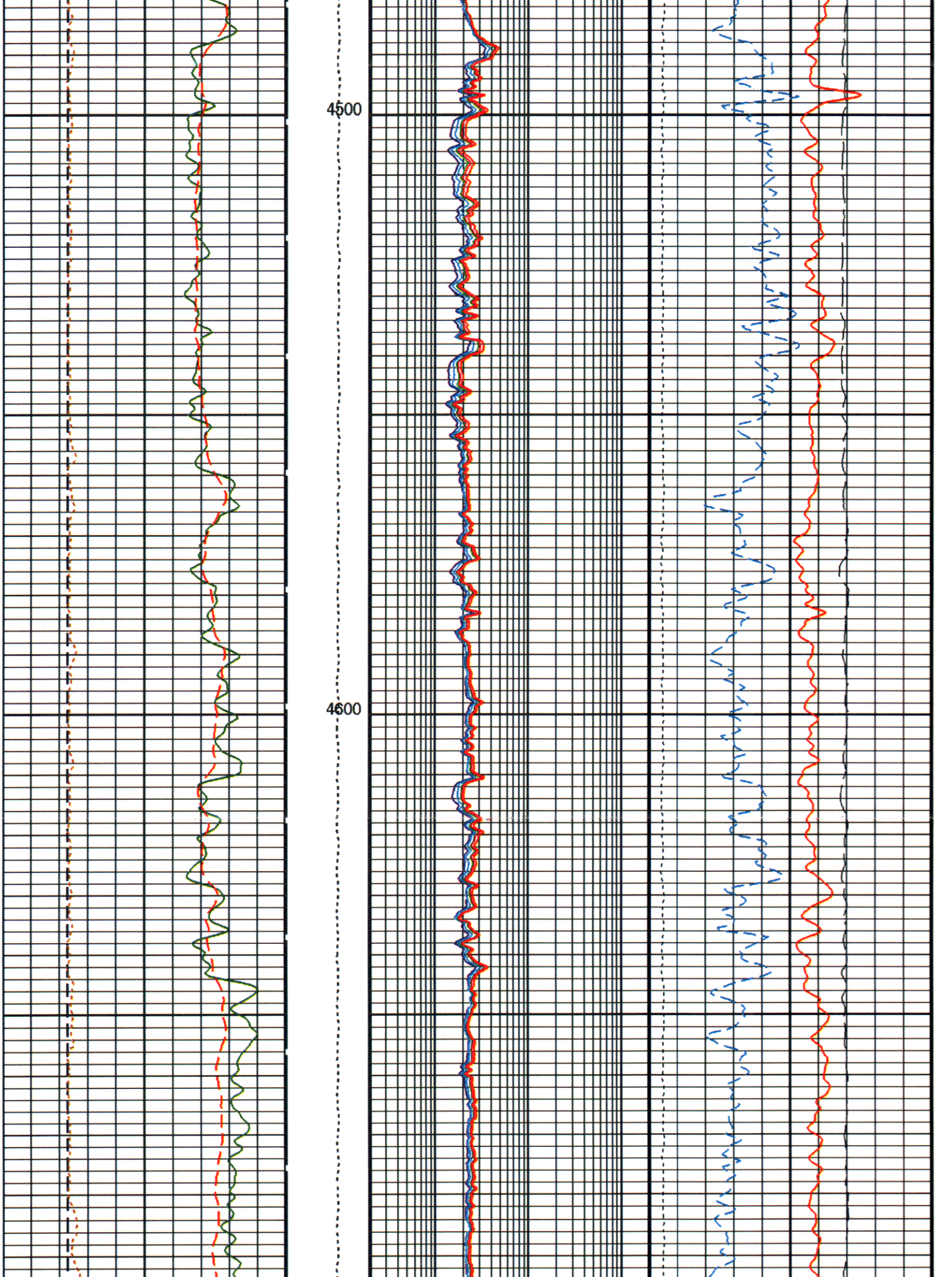
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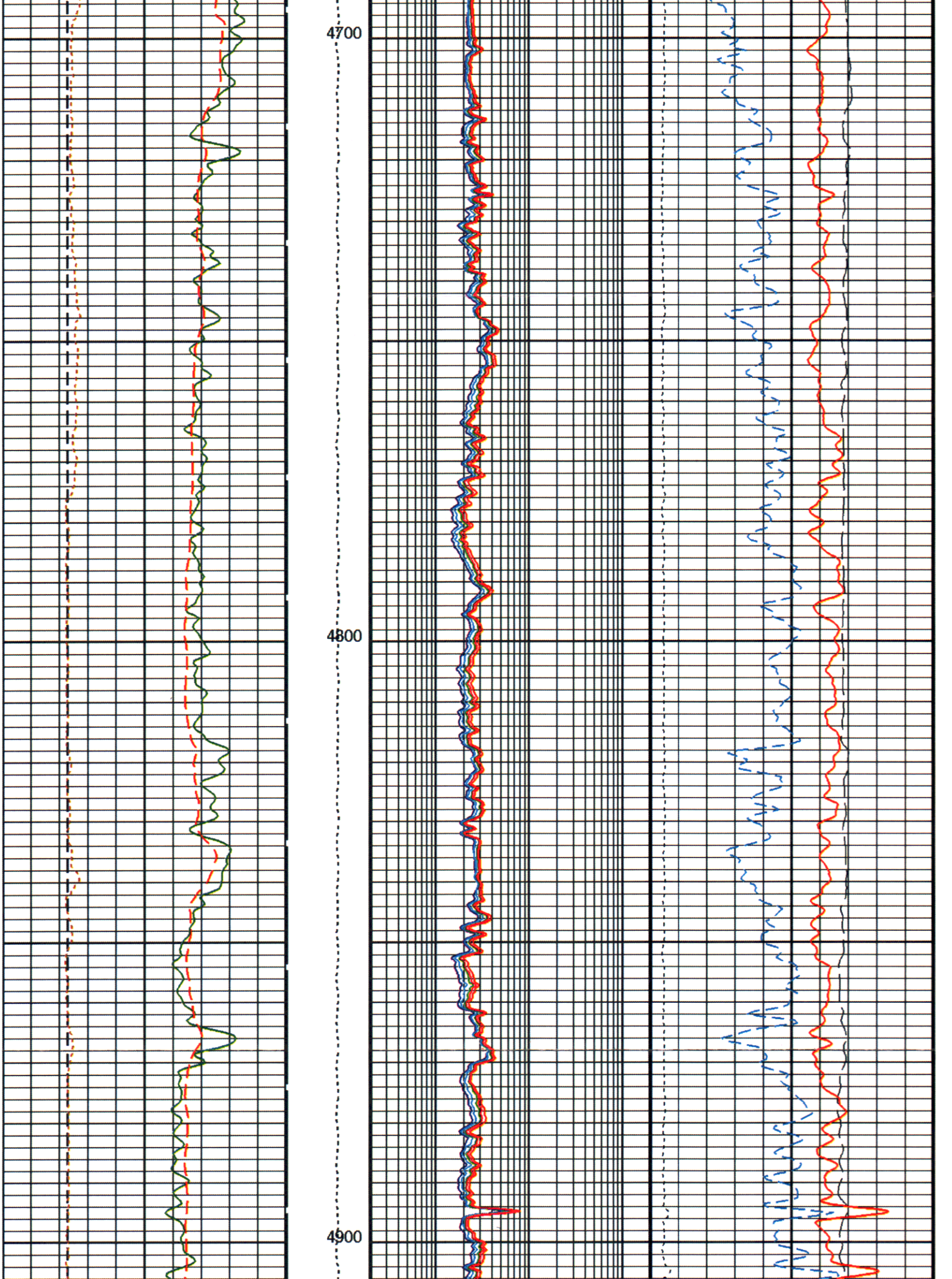
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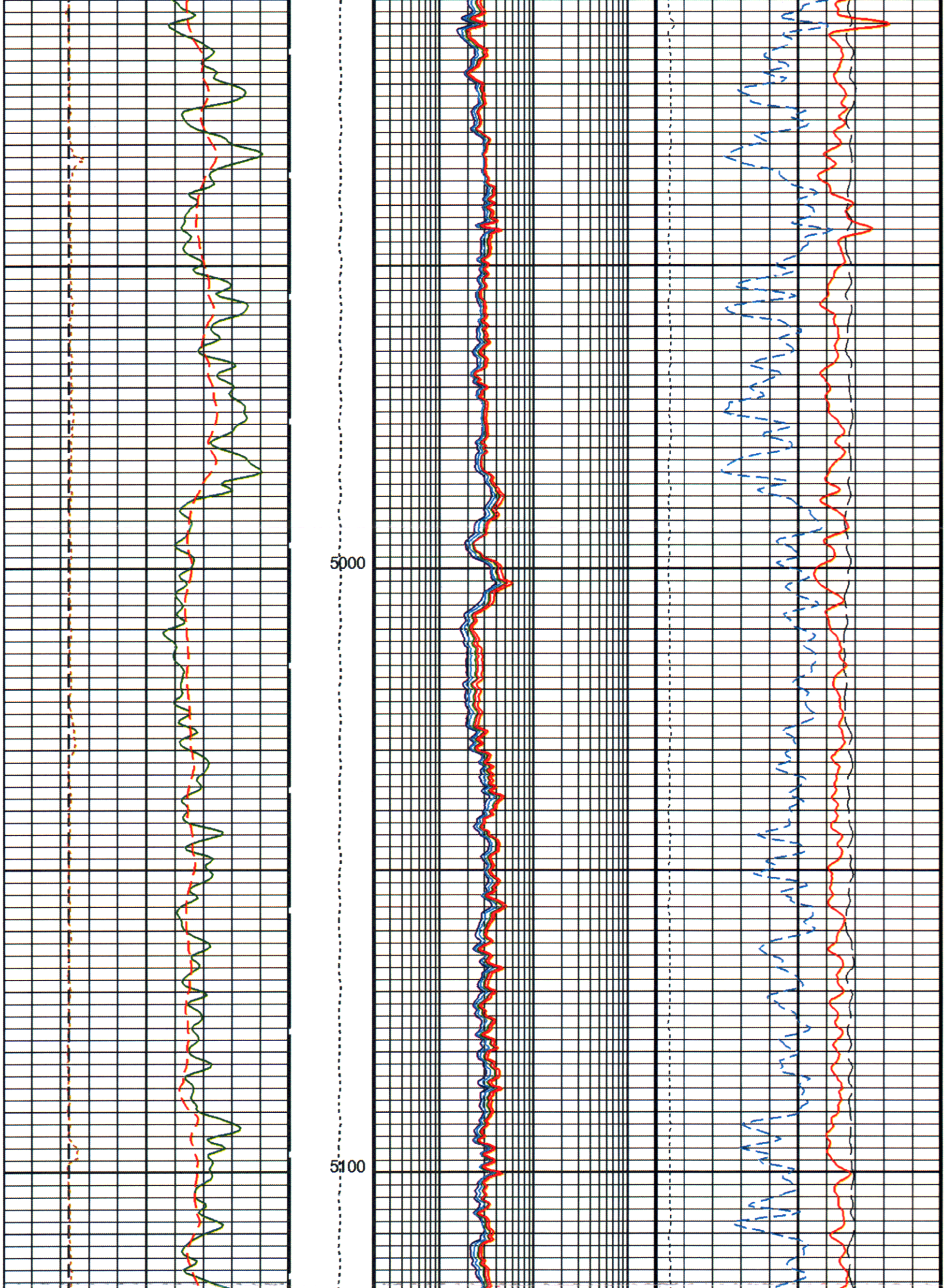

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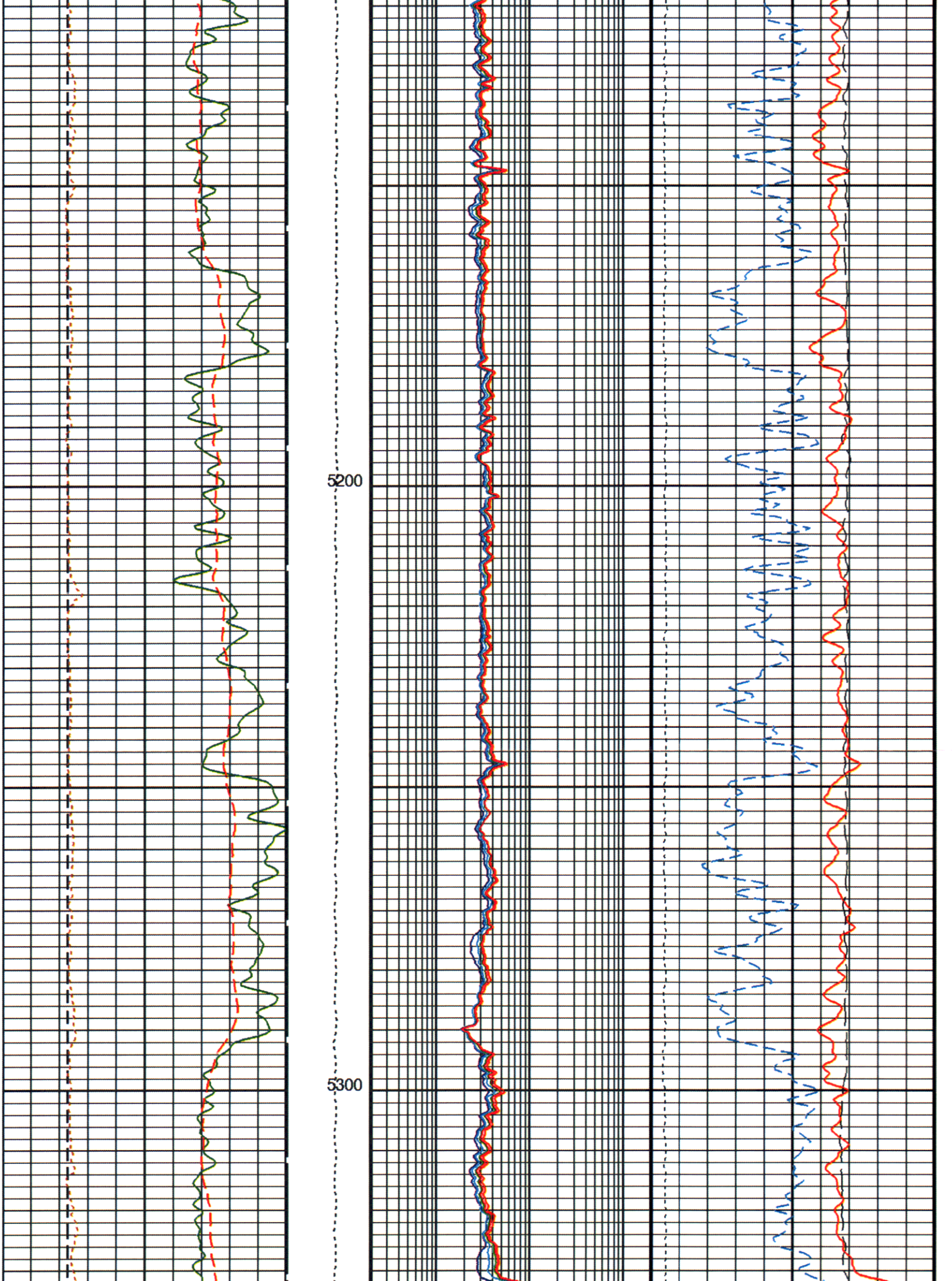
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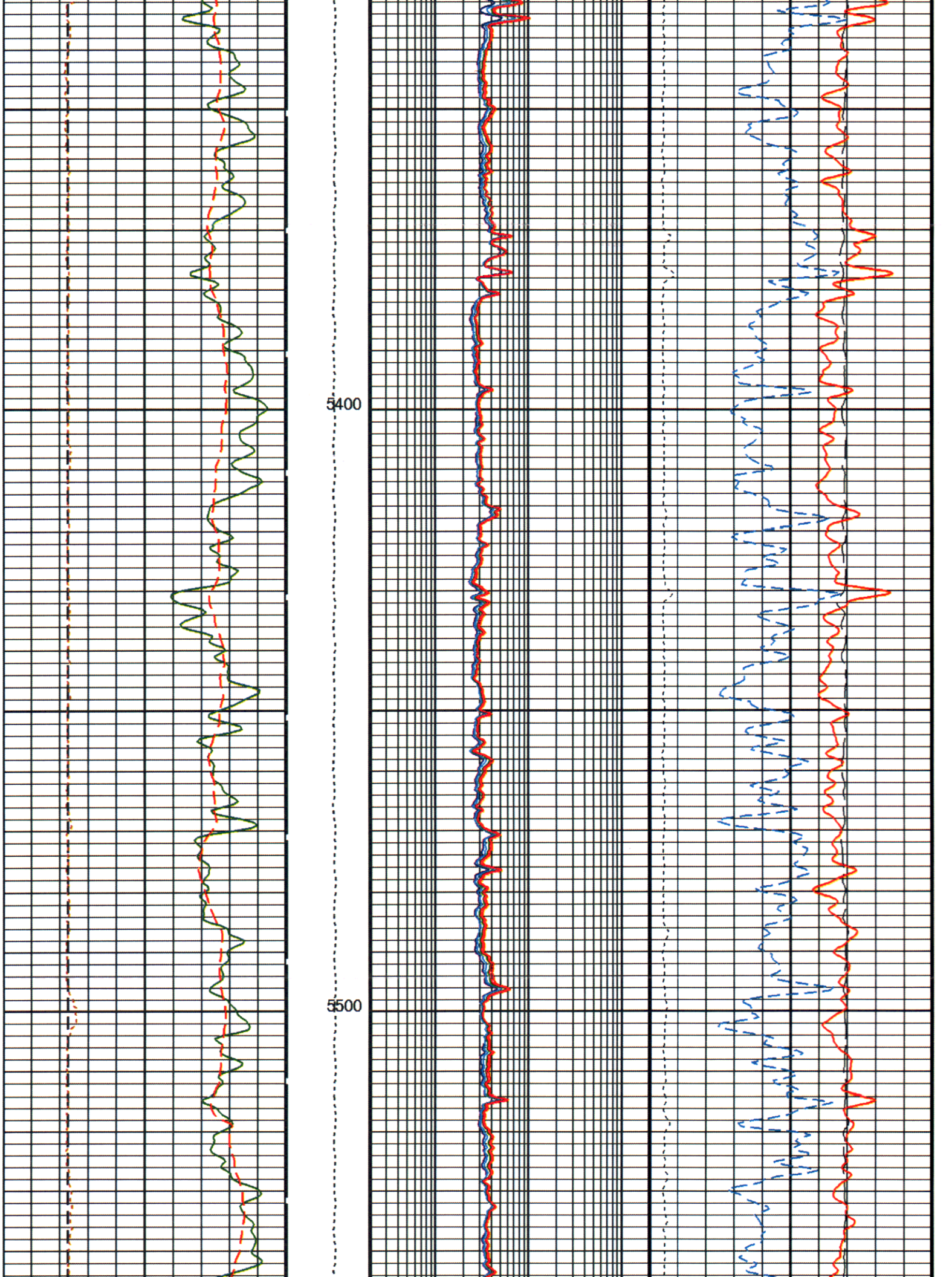
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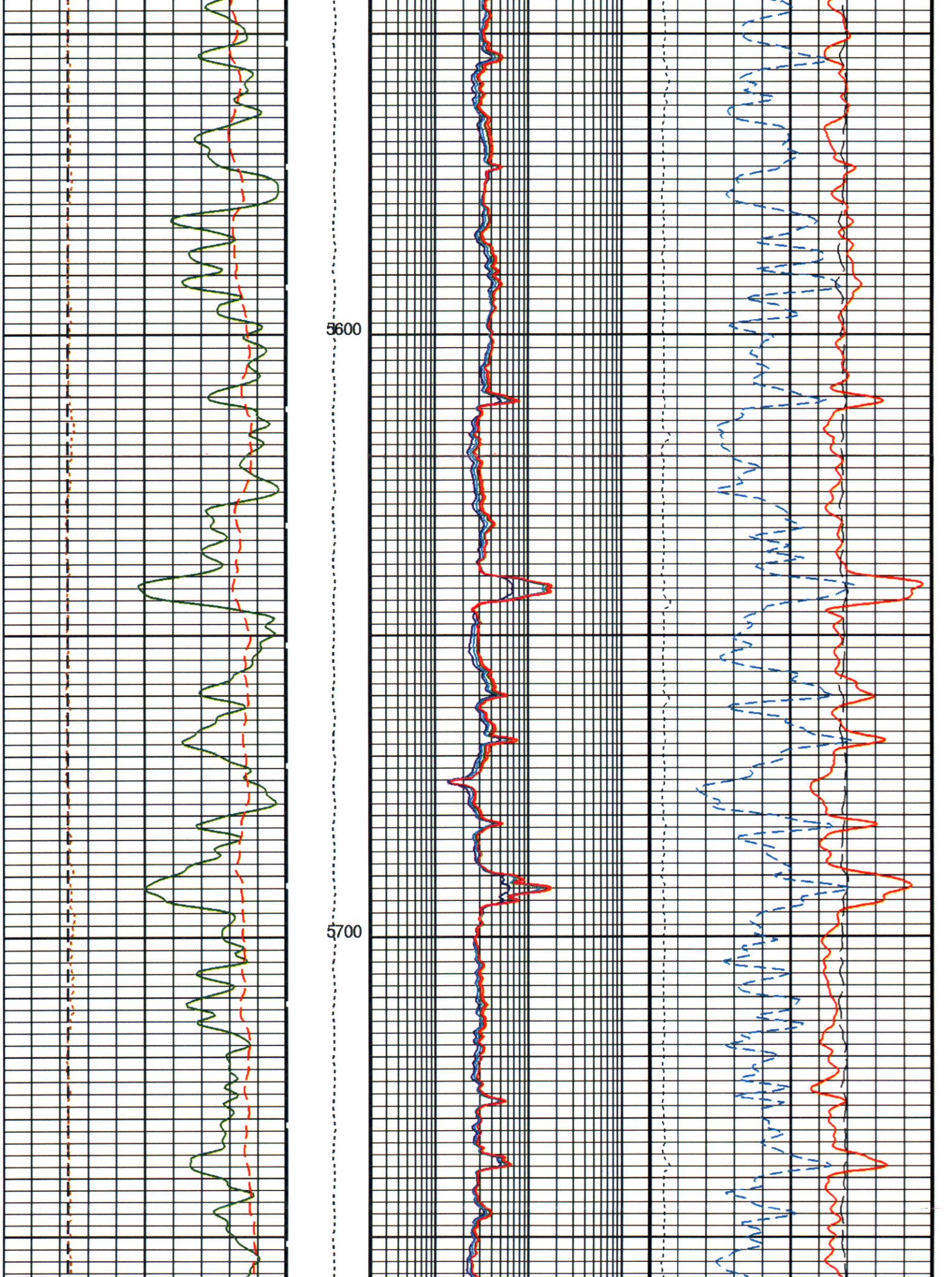
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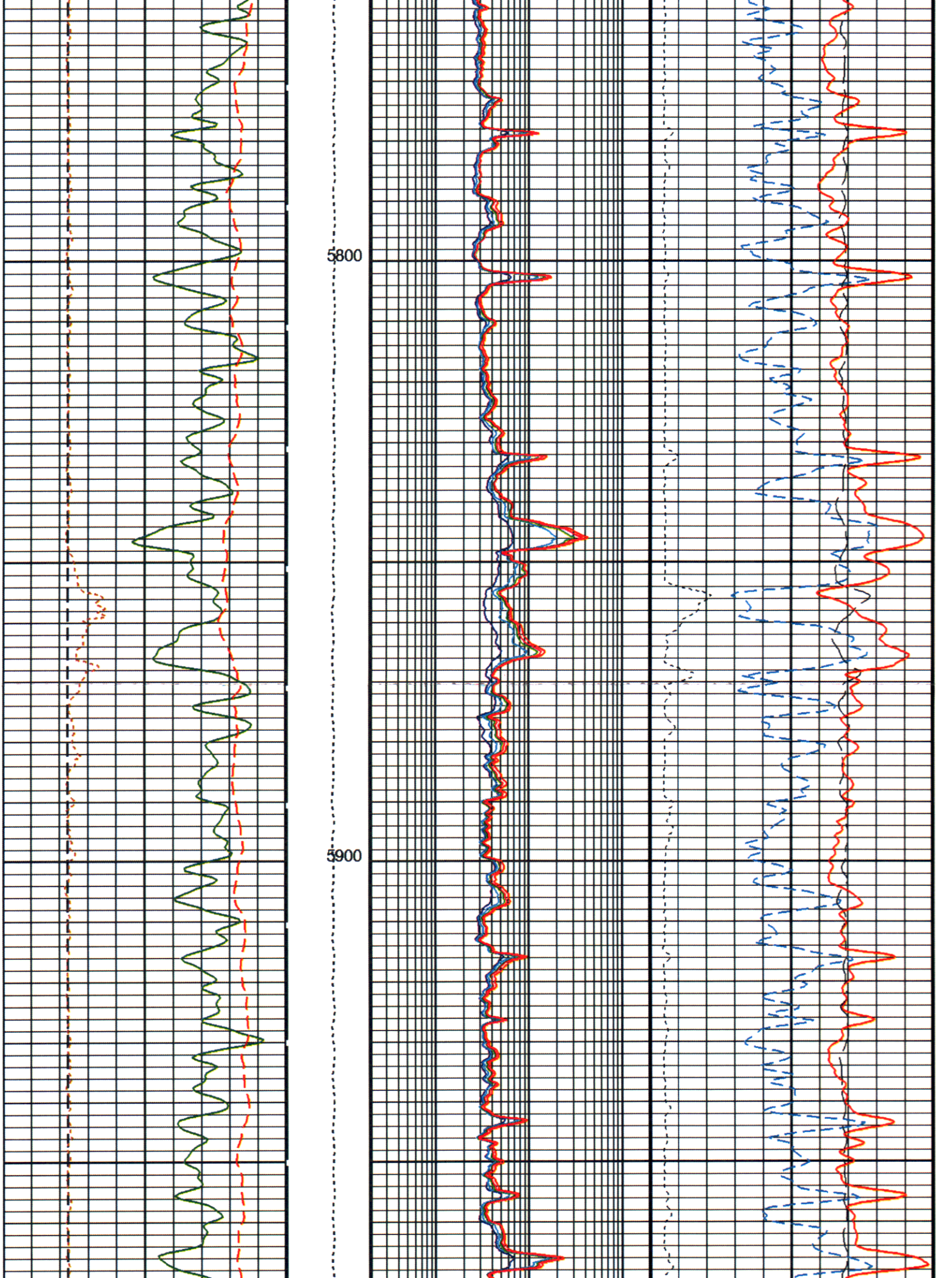
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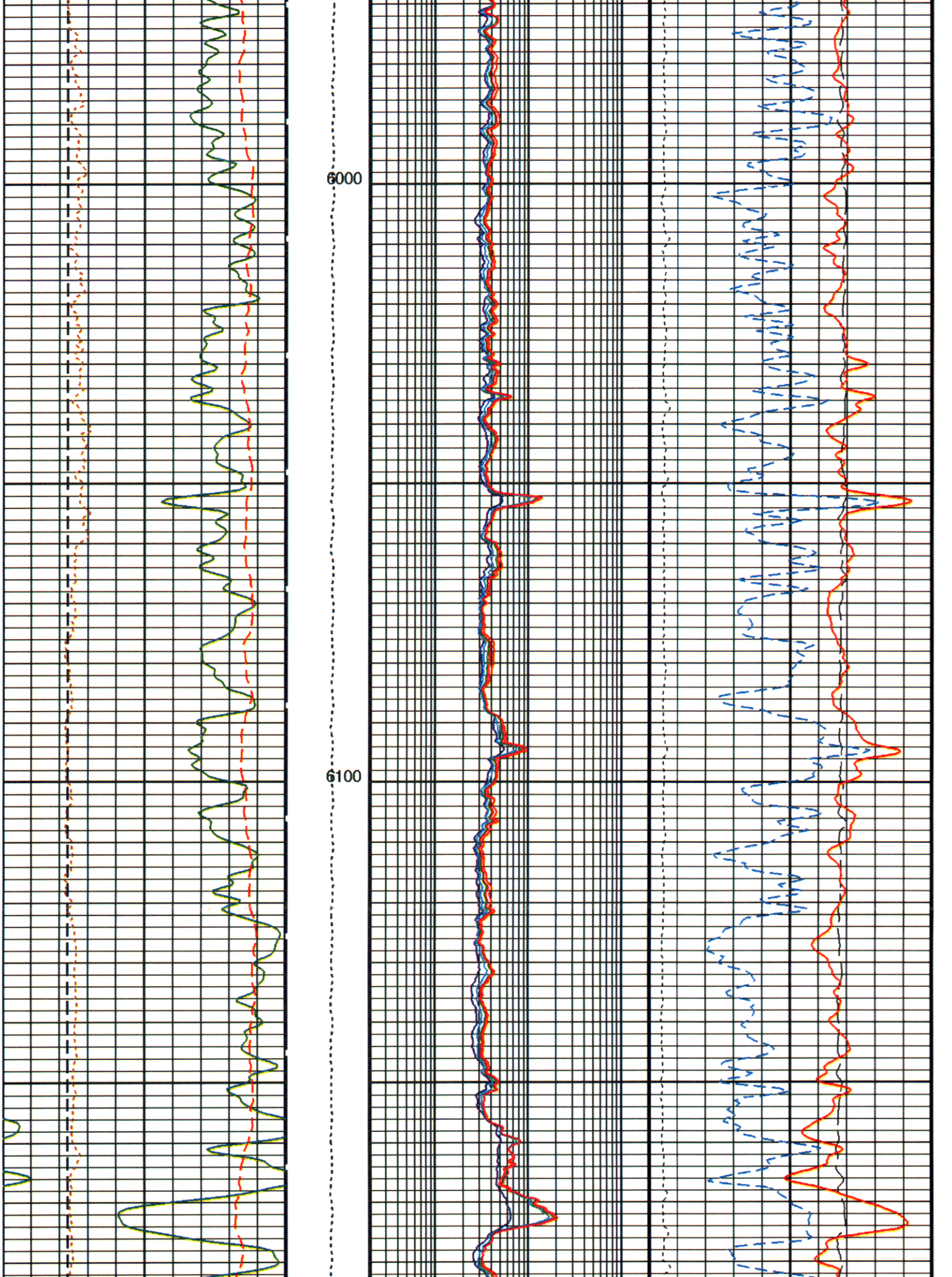
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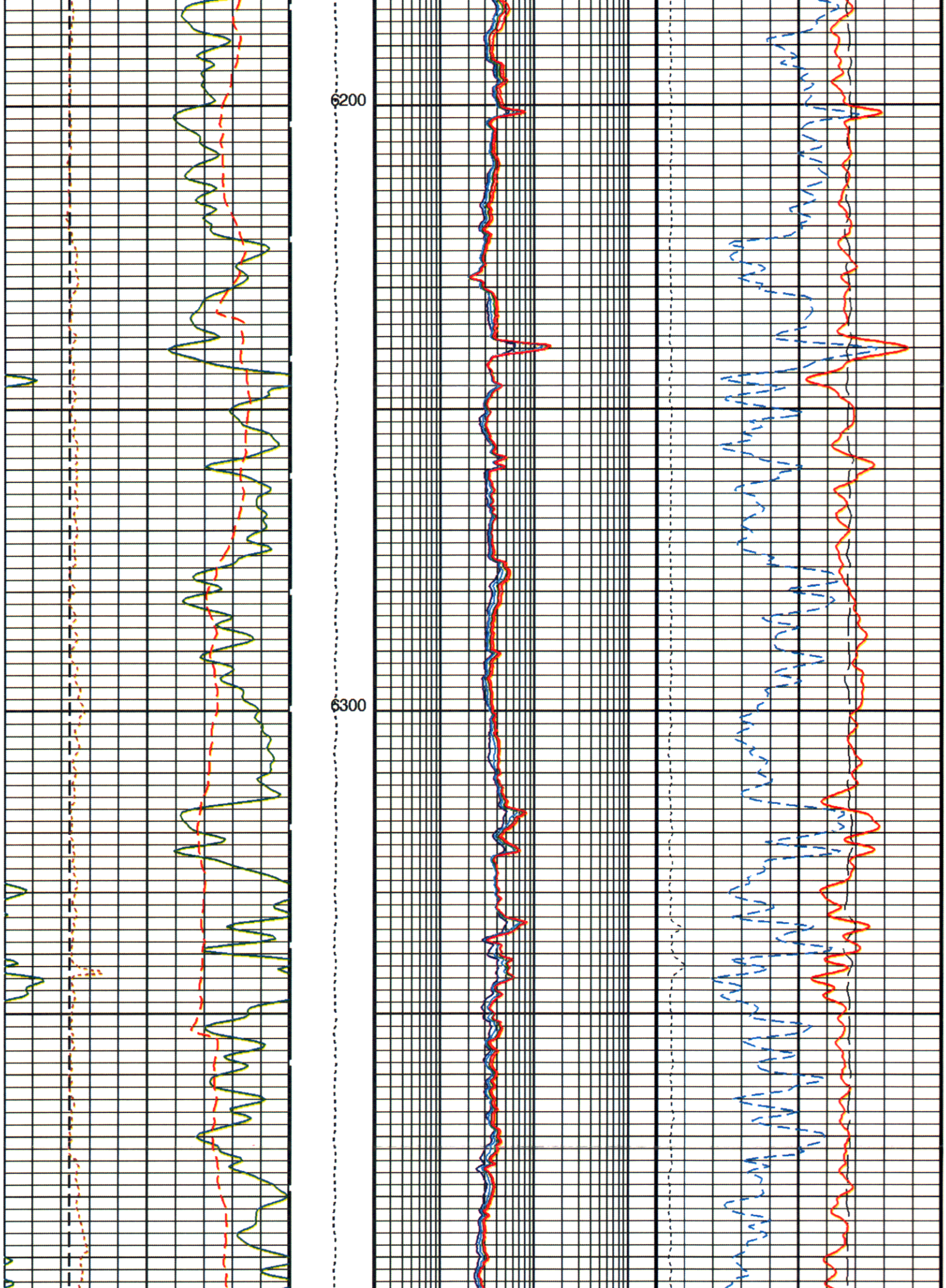

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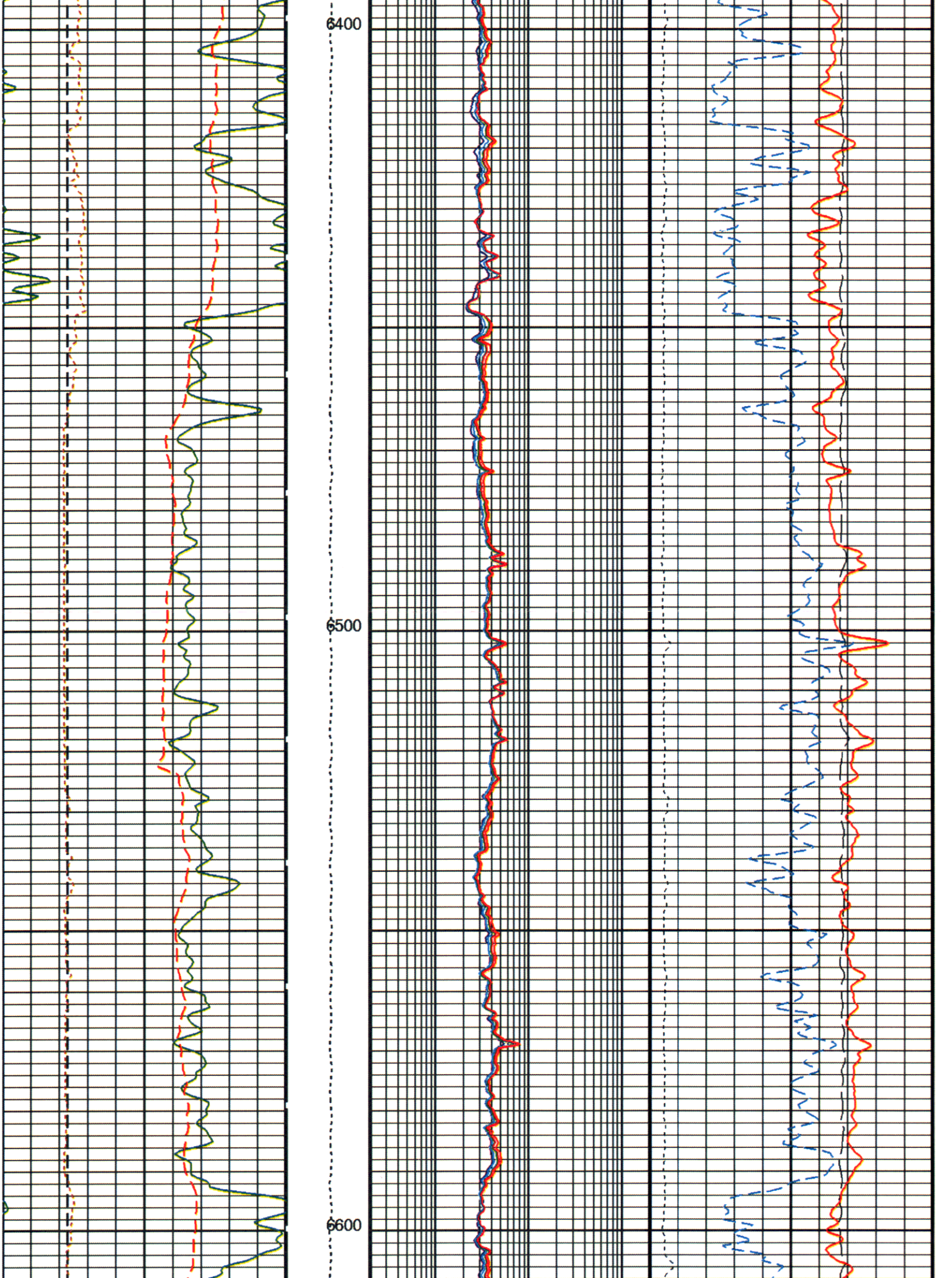
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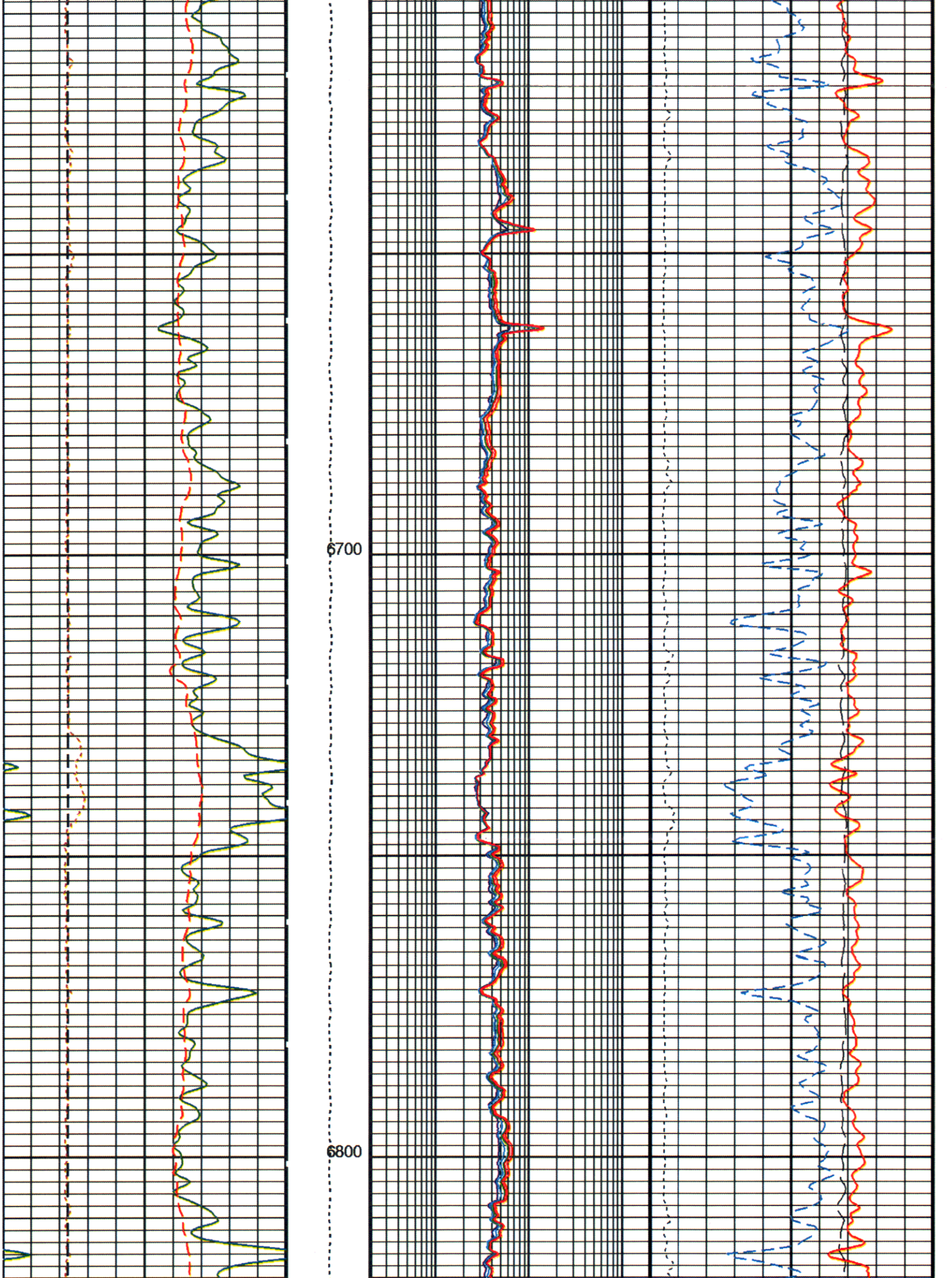
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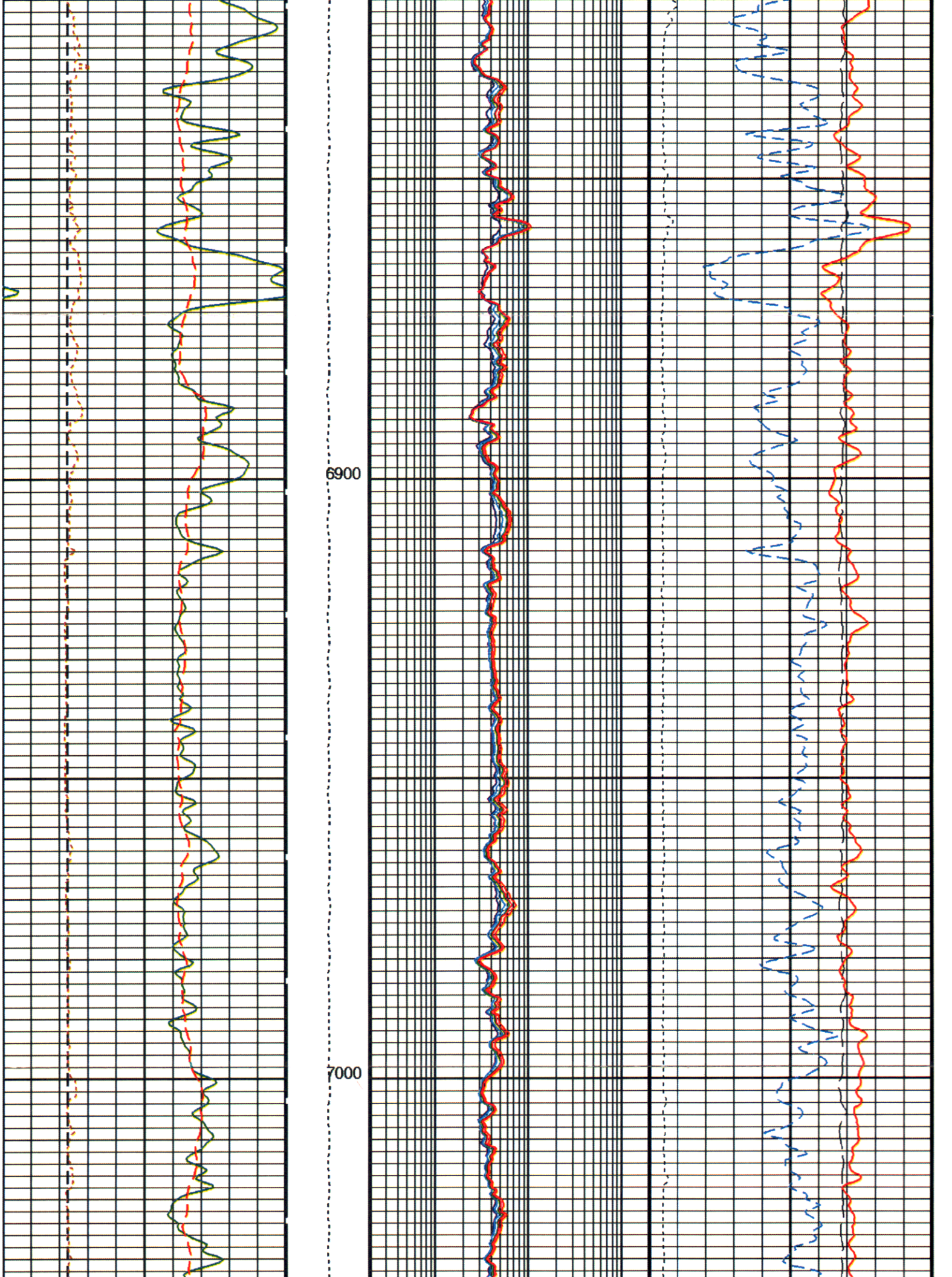
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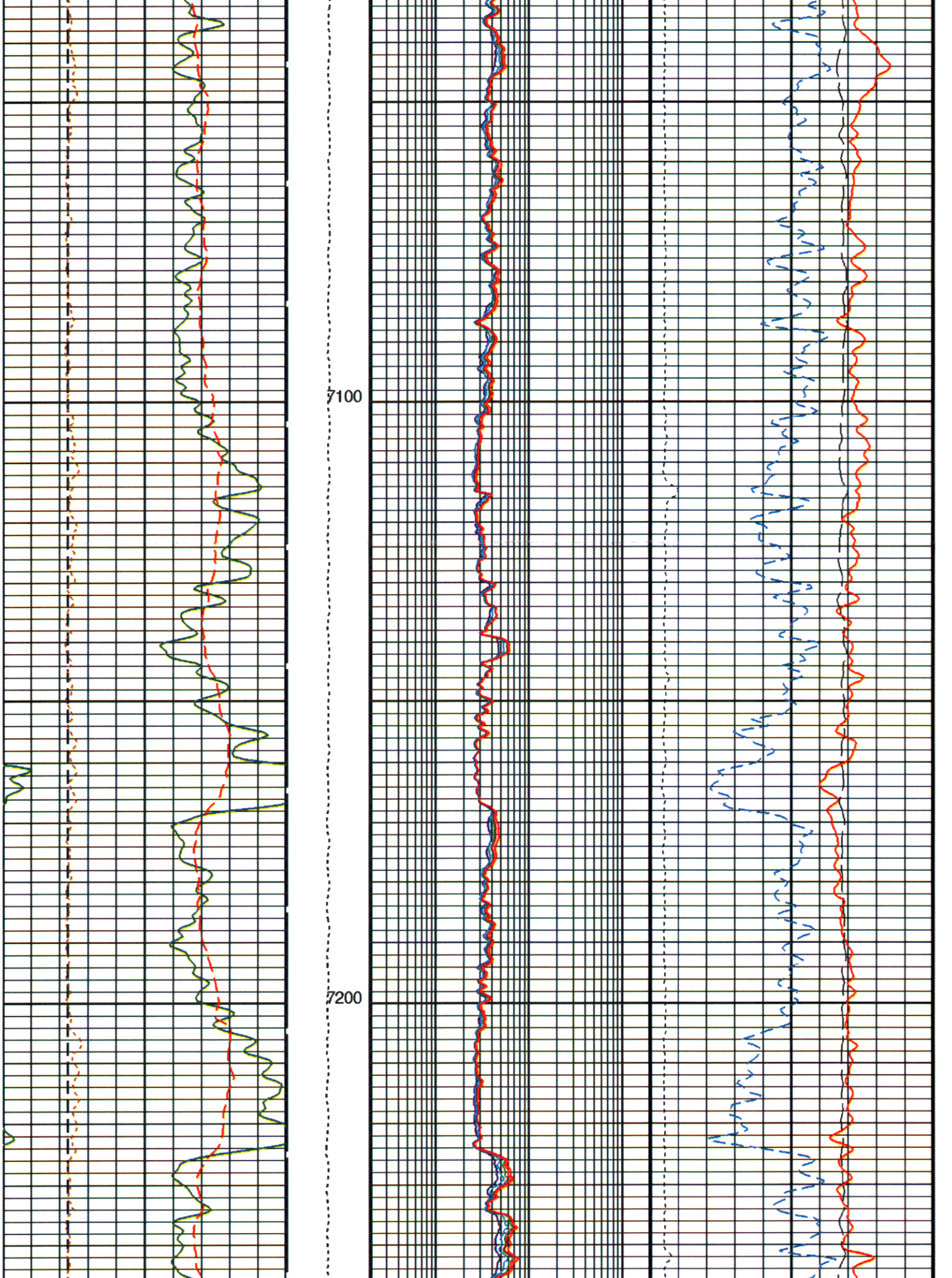
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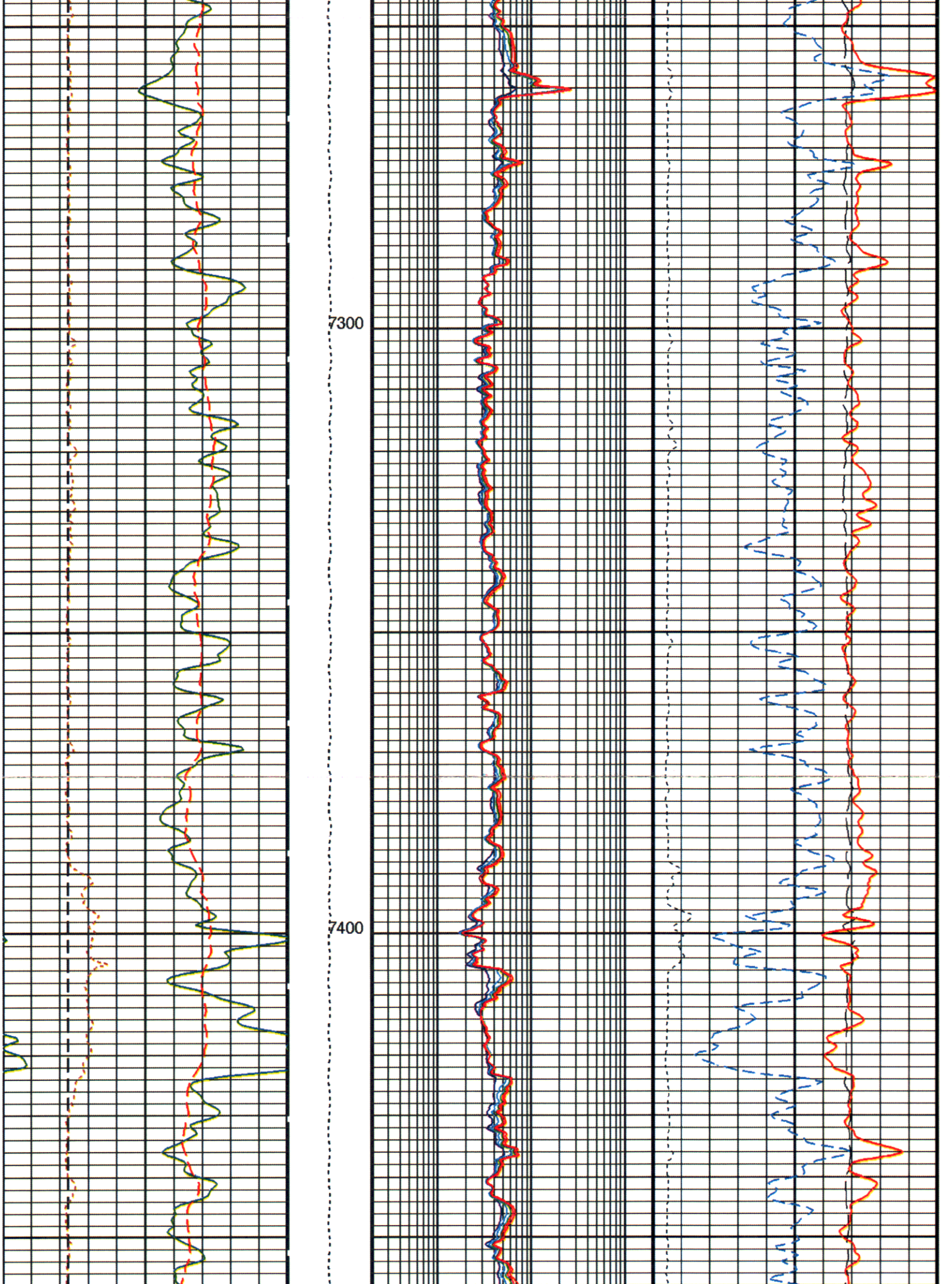
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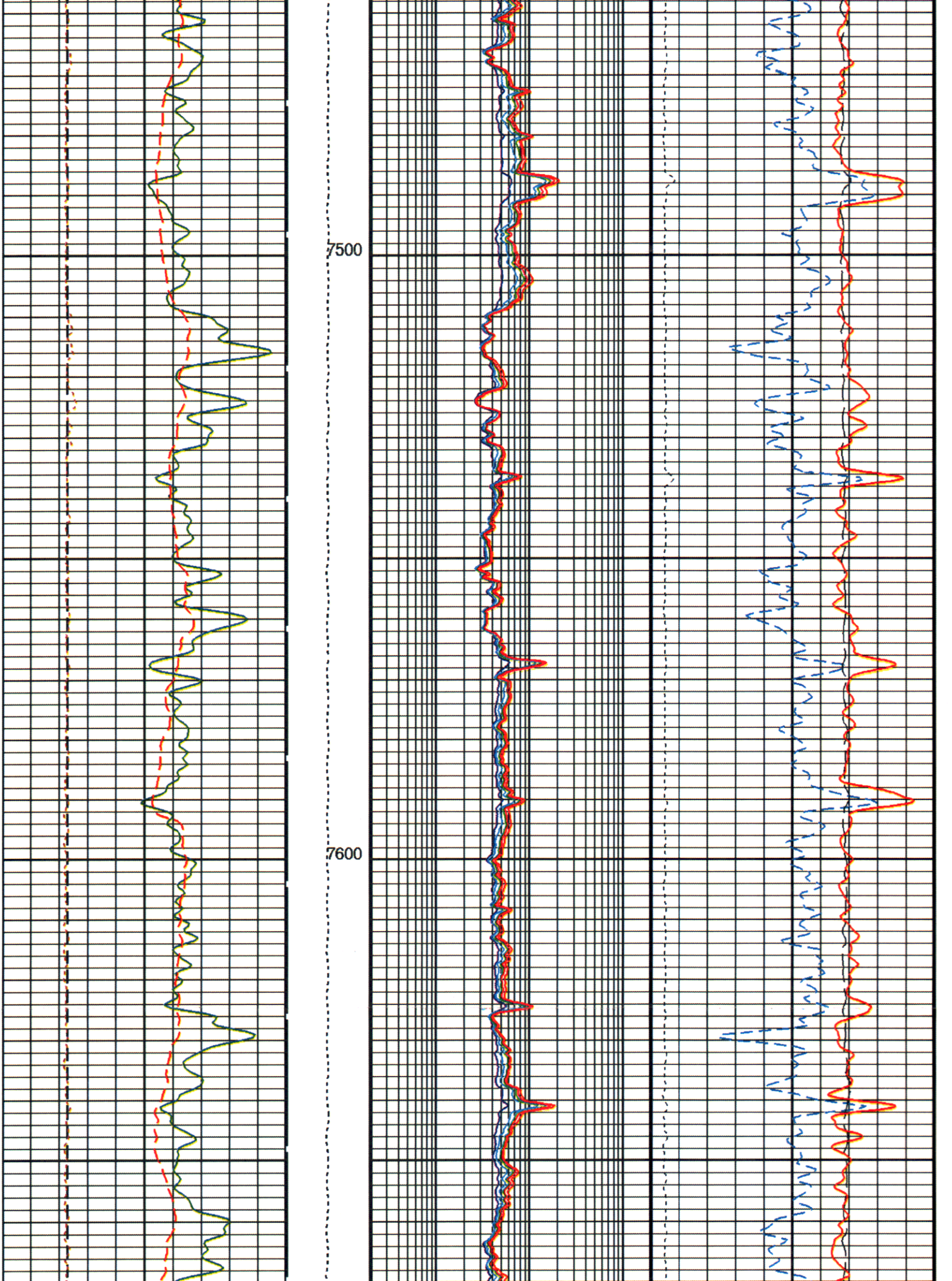
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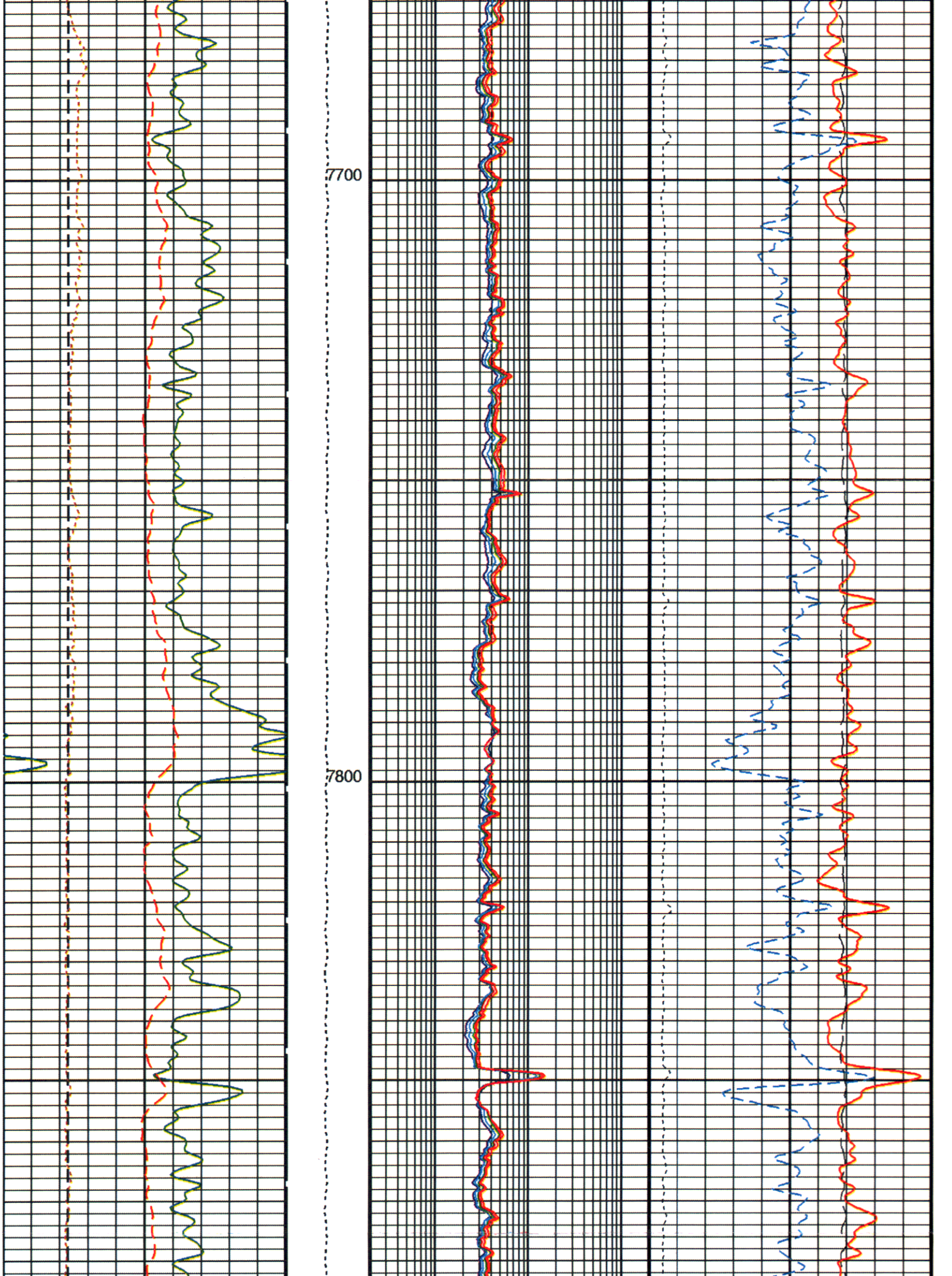
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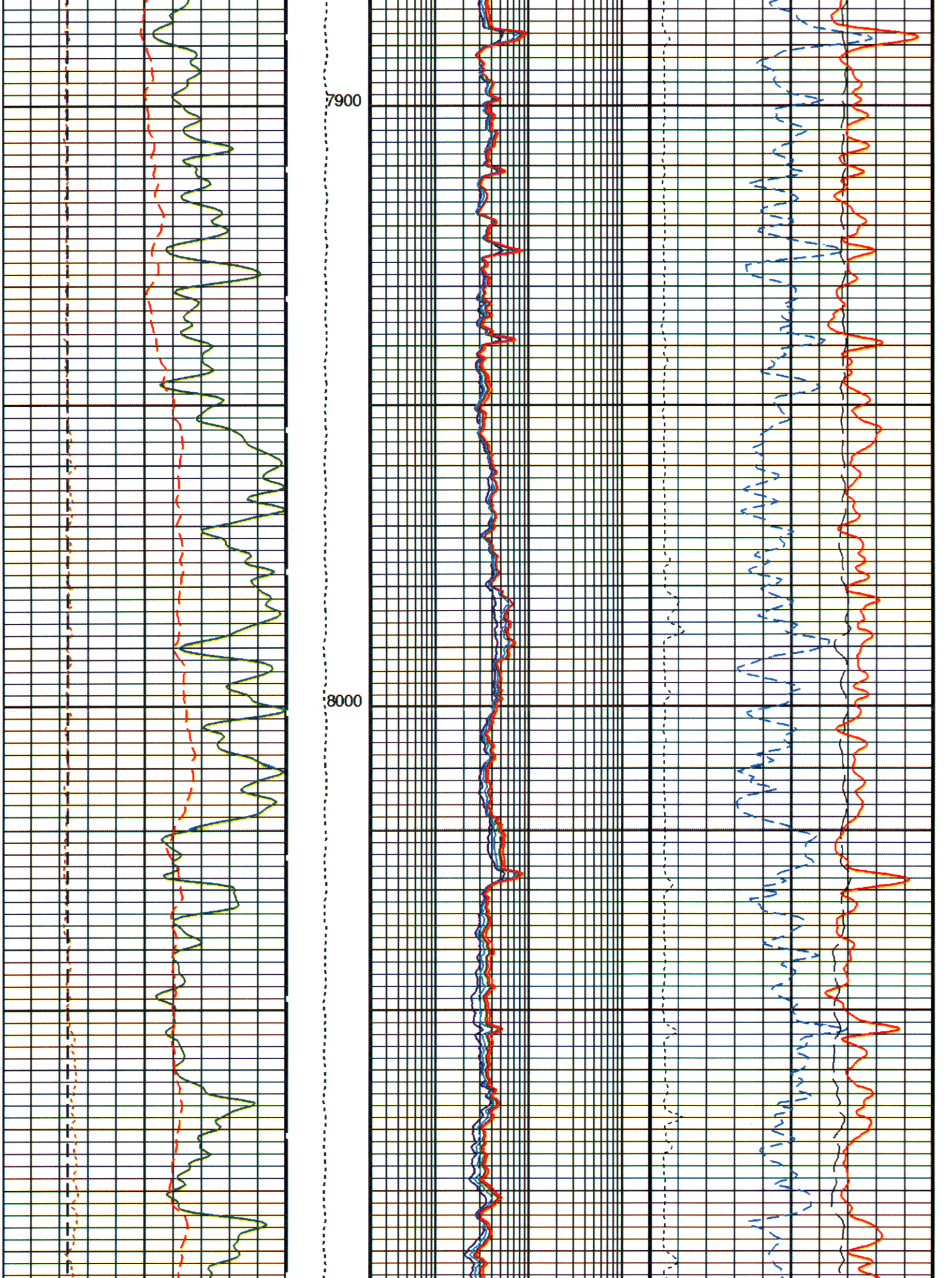
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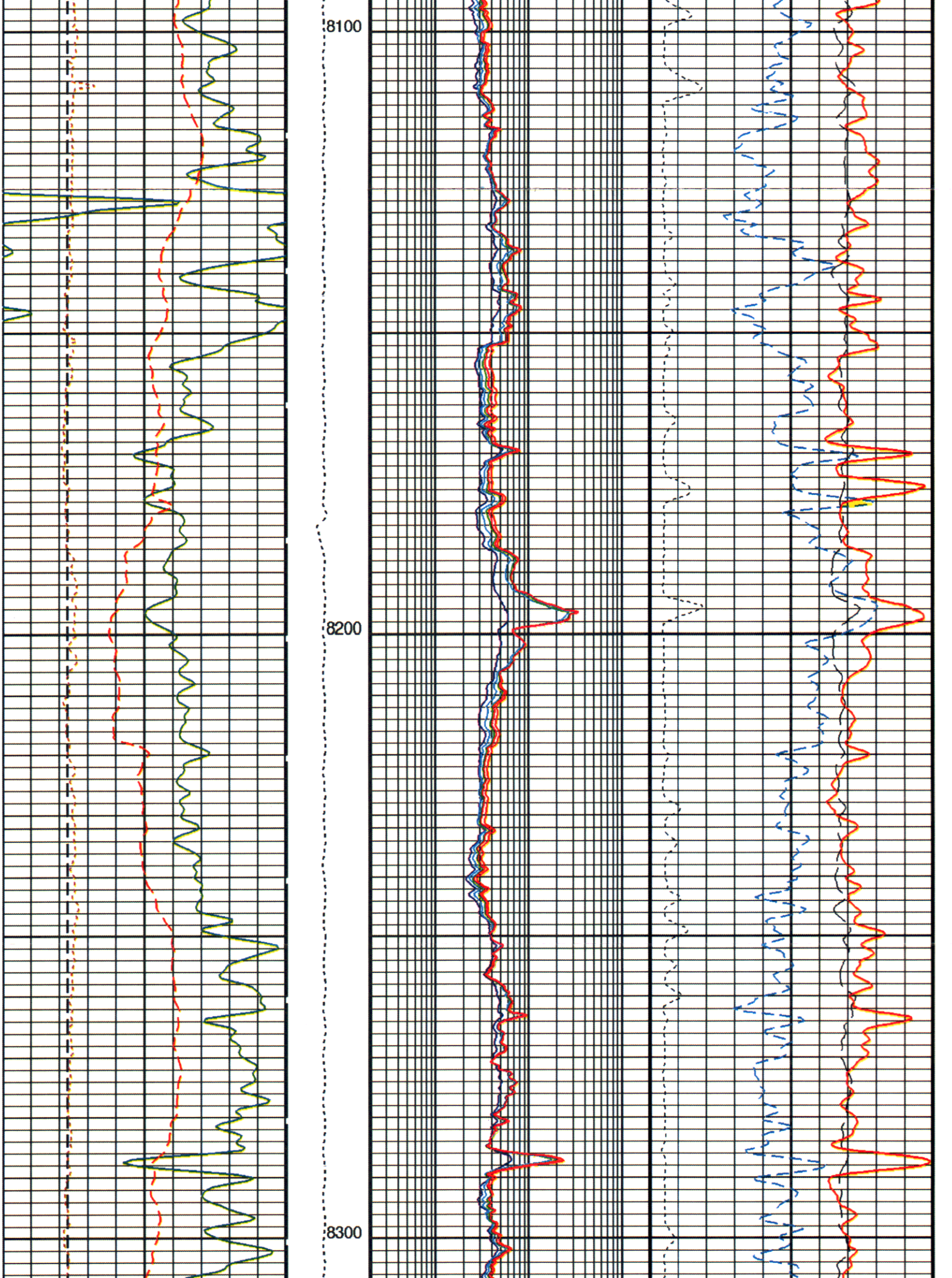
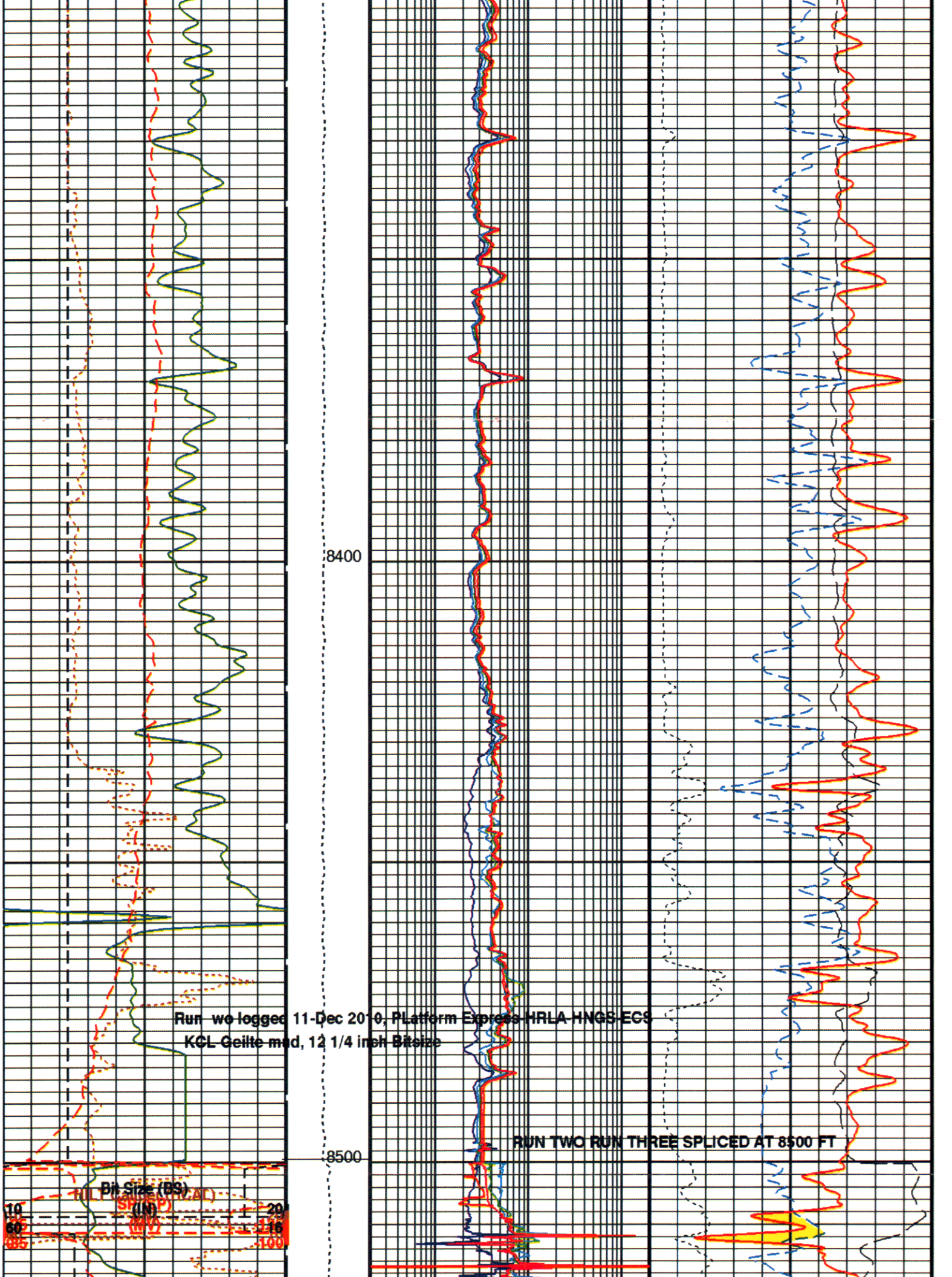
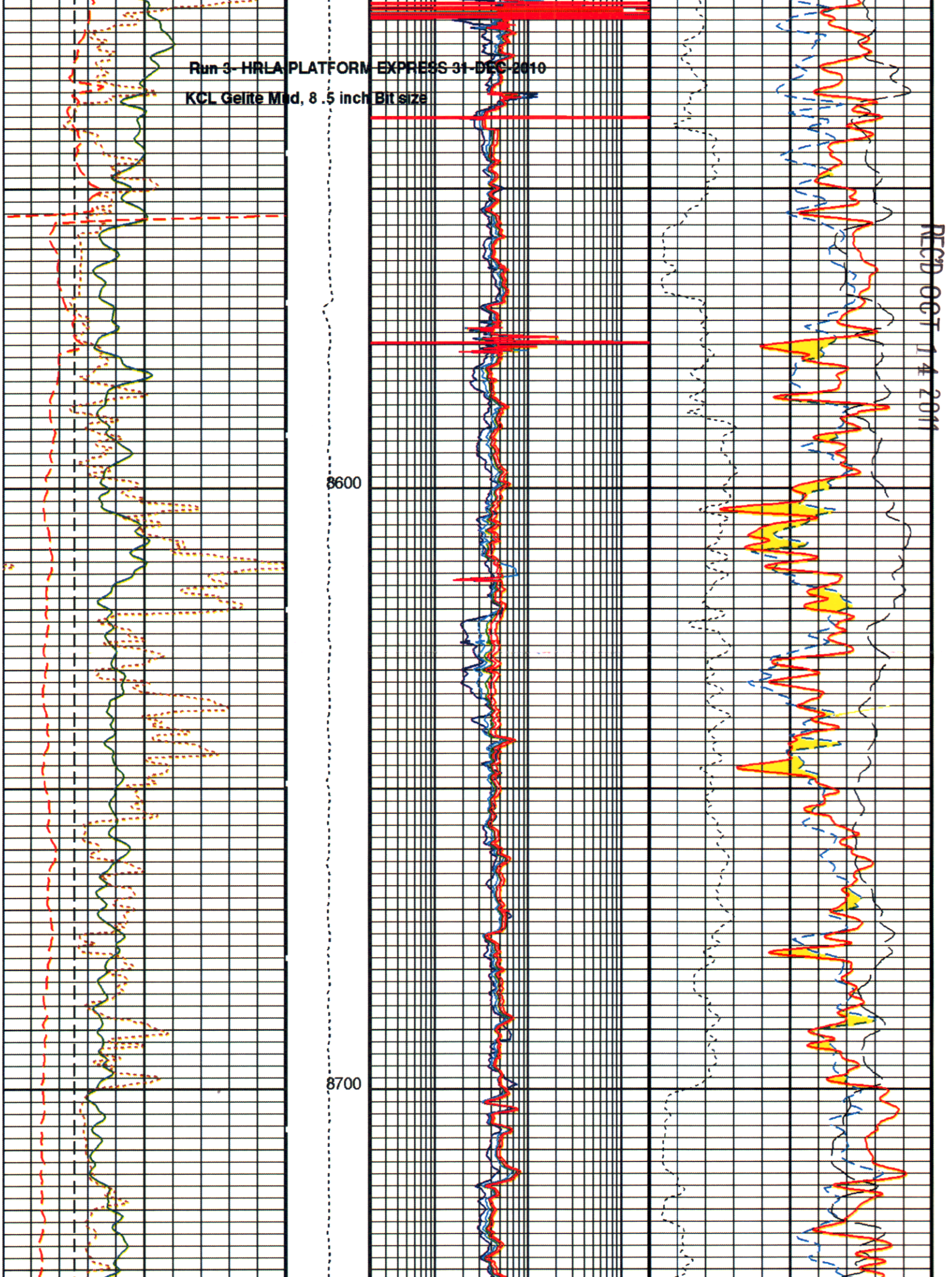
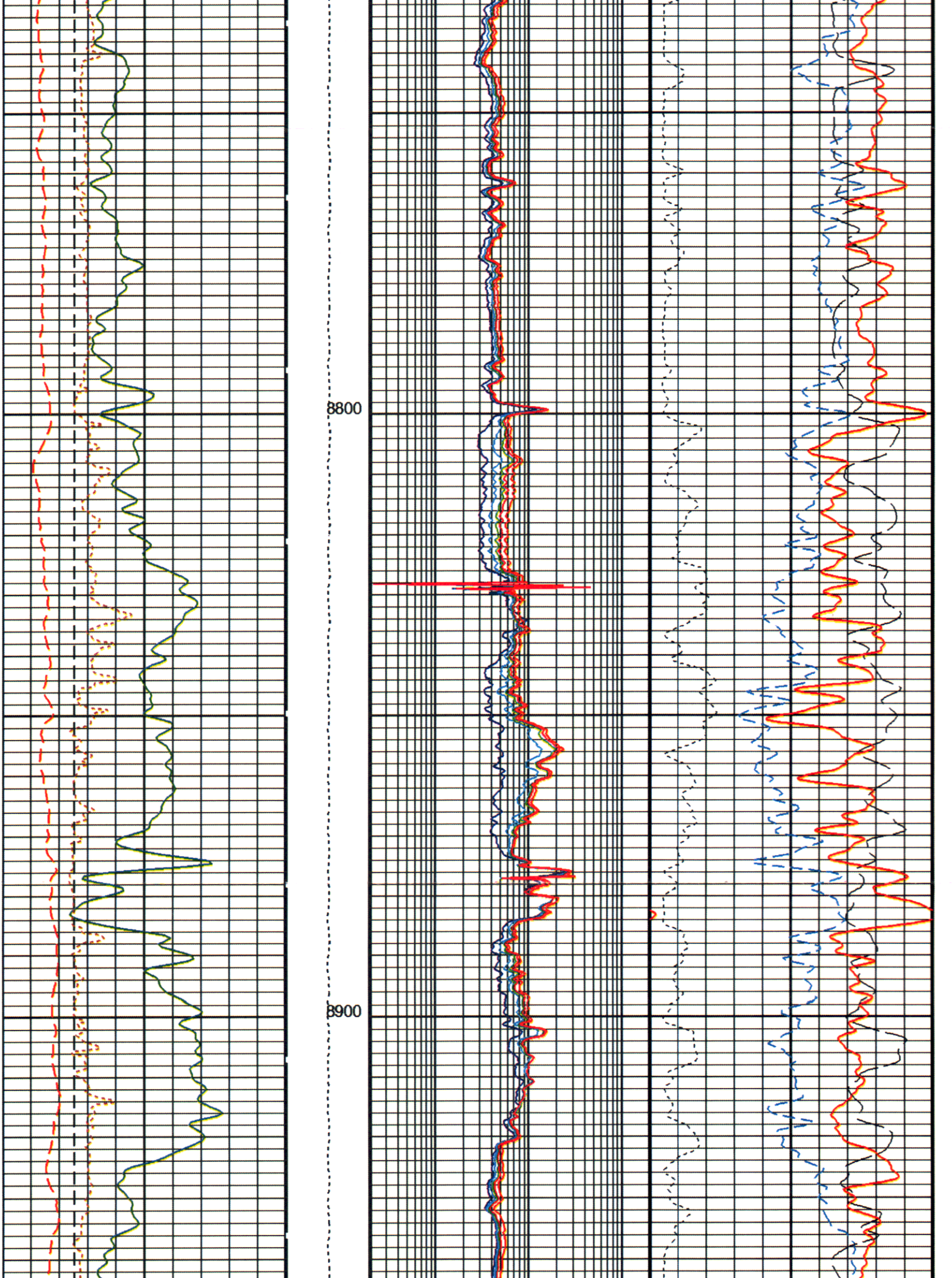

8100
8200
8300


8400
8500
Run wo logged 11-Dec 2010, PLatform Express HRLA HNGS ECS
KCL Geilte mud, 12 1/4 inch Bitsize
RUN TWO RUN THREE SPLICED AT 8500 FT
Bit Size (BS)
(IN)
10
20
60
110
85
100



RECD OCT 14 2011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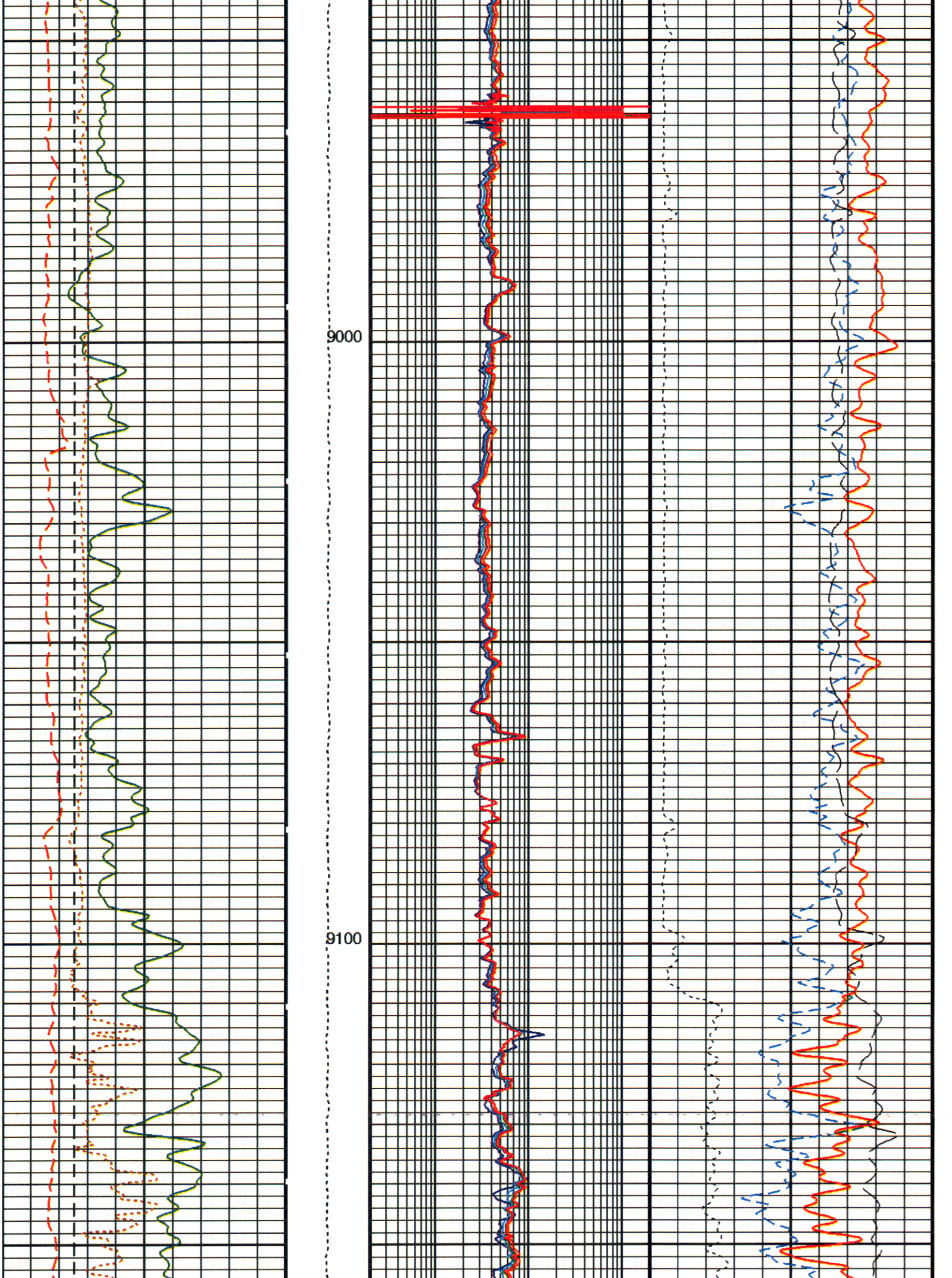
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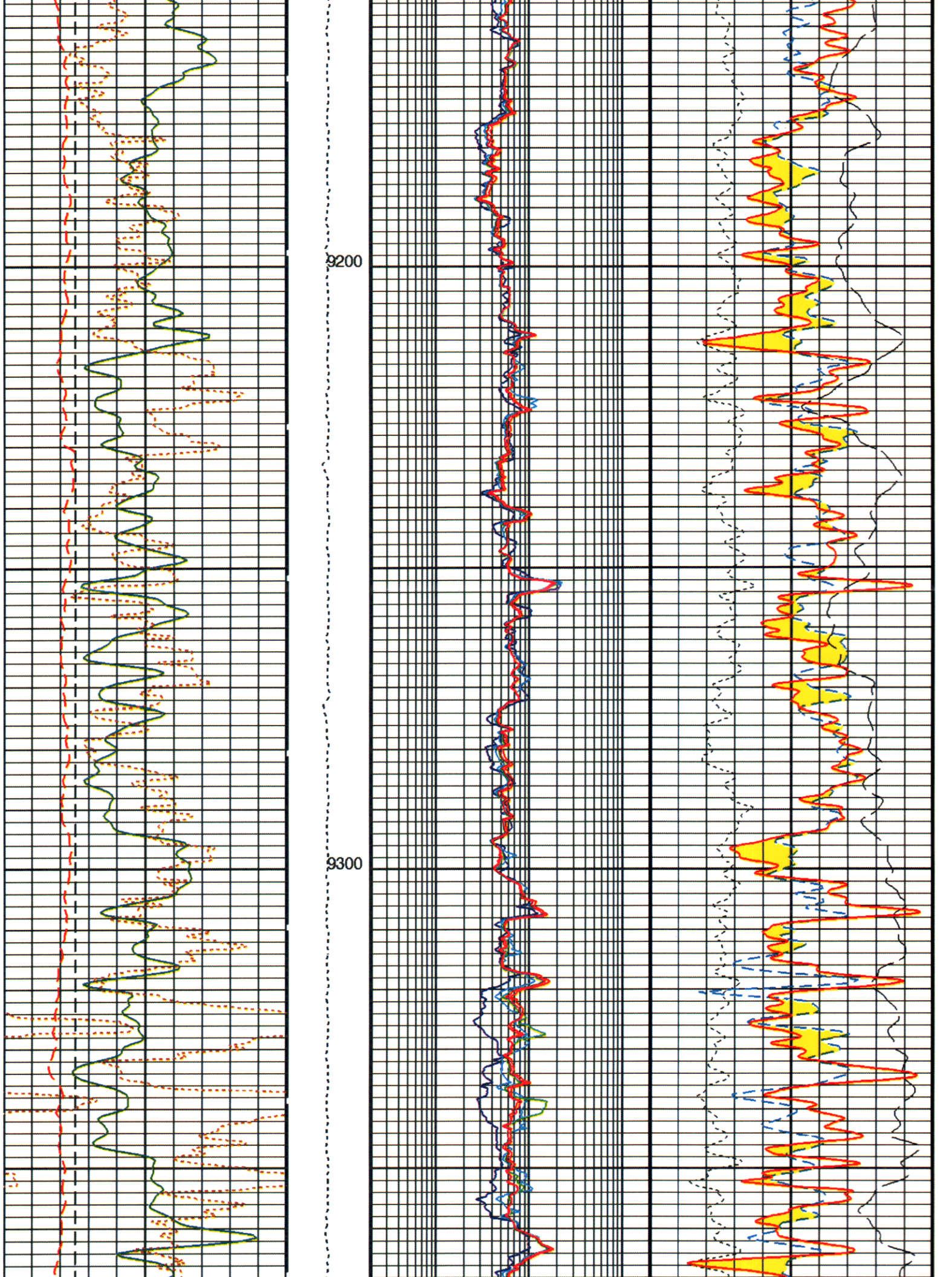
9100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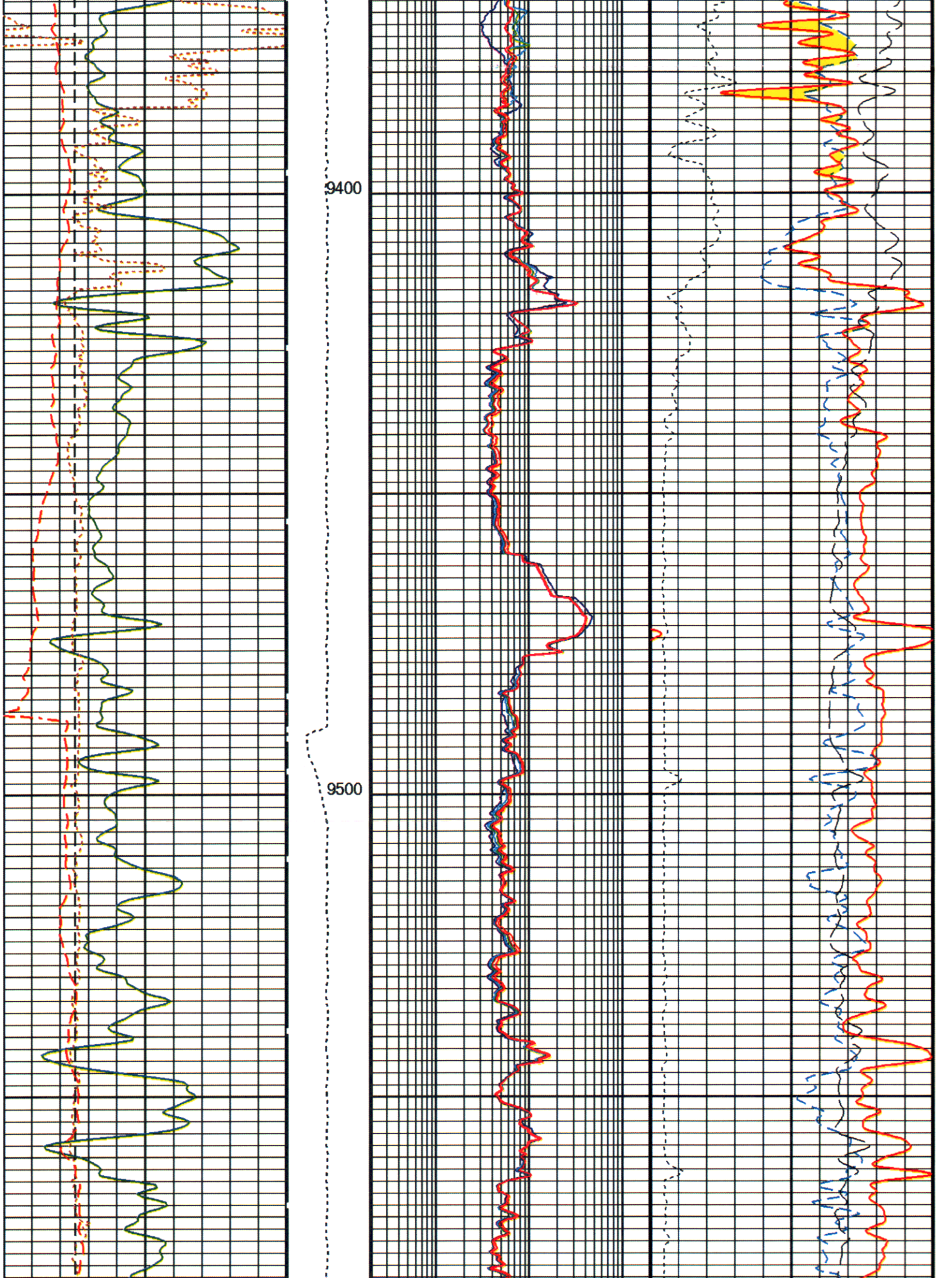
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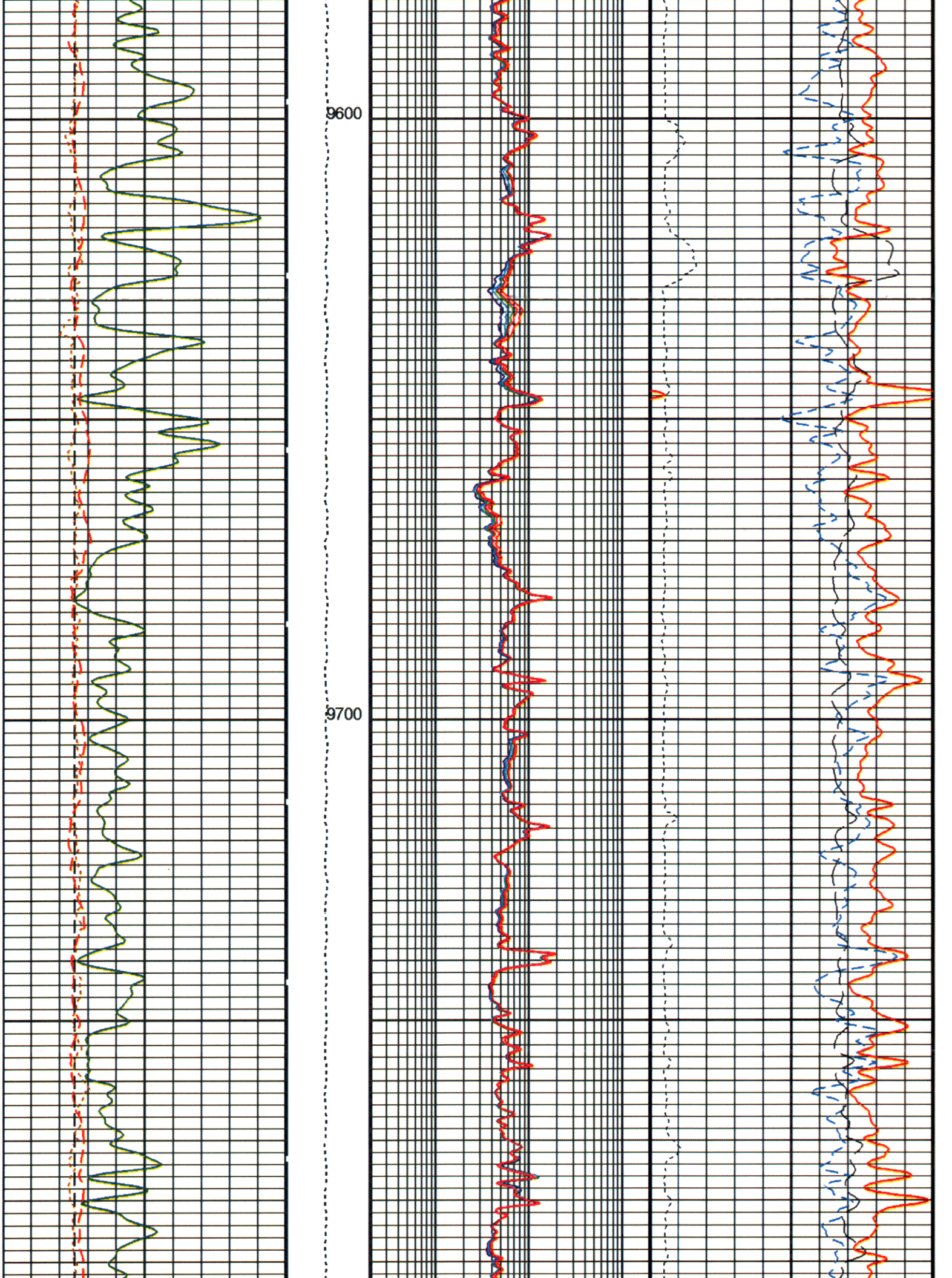
9500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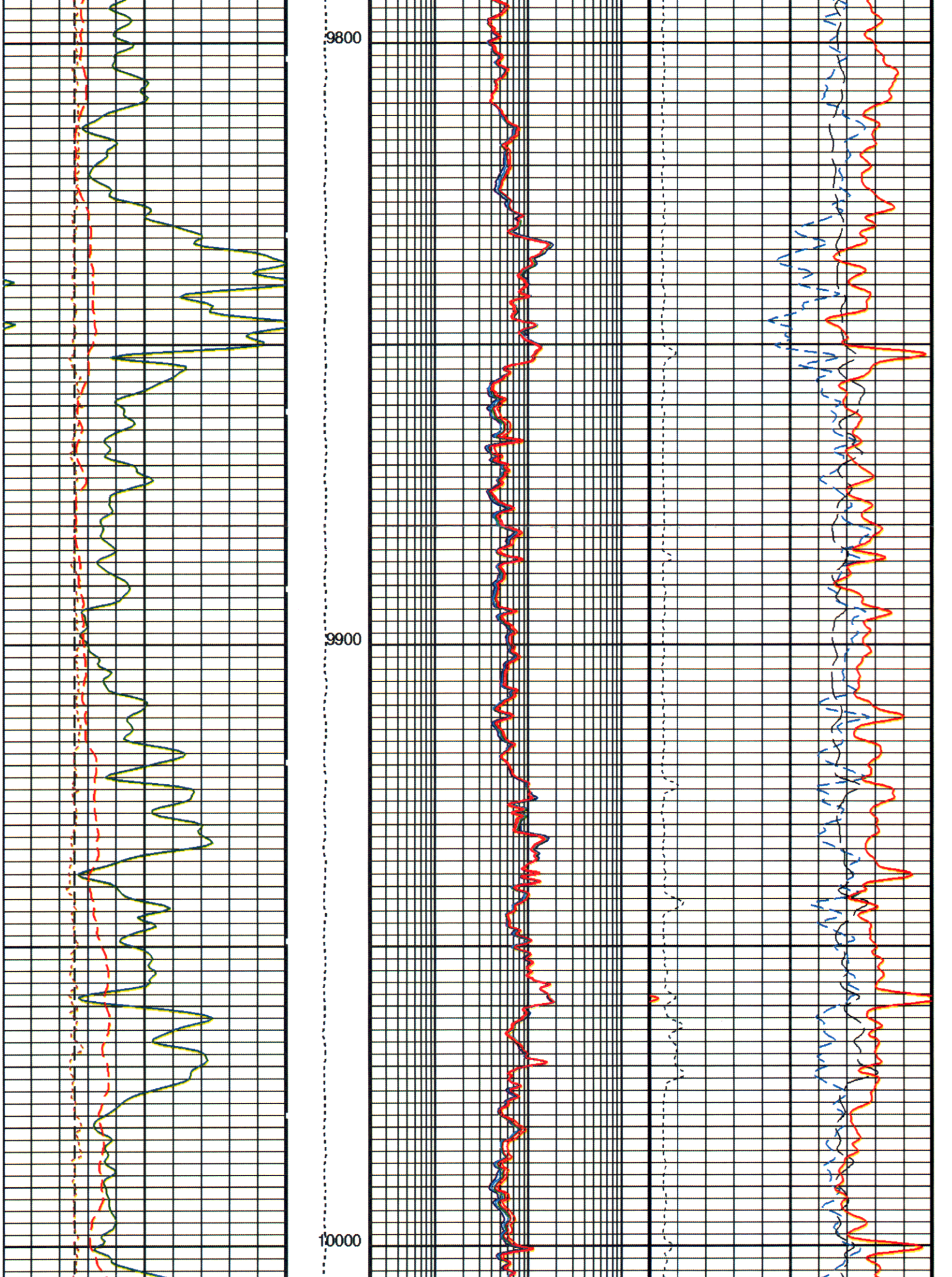
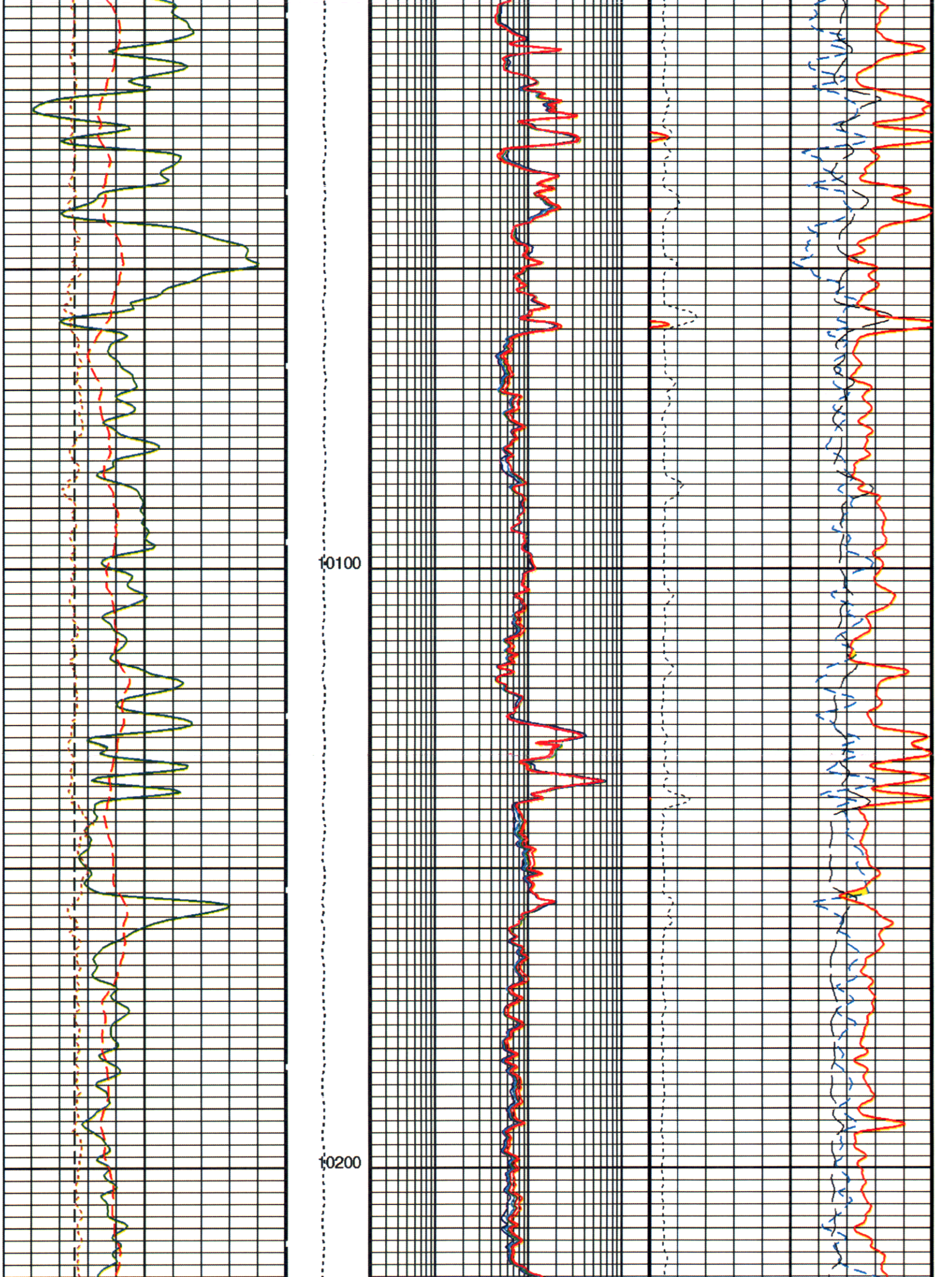
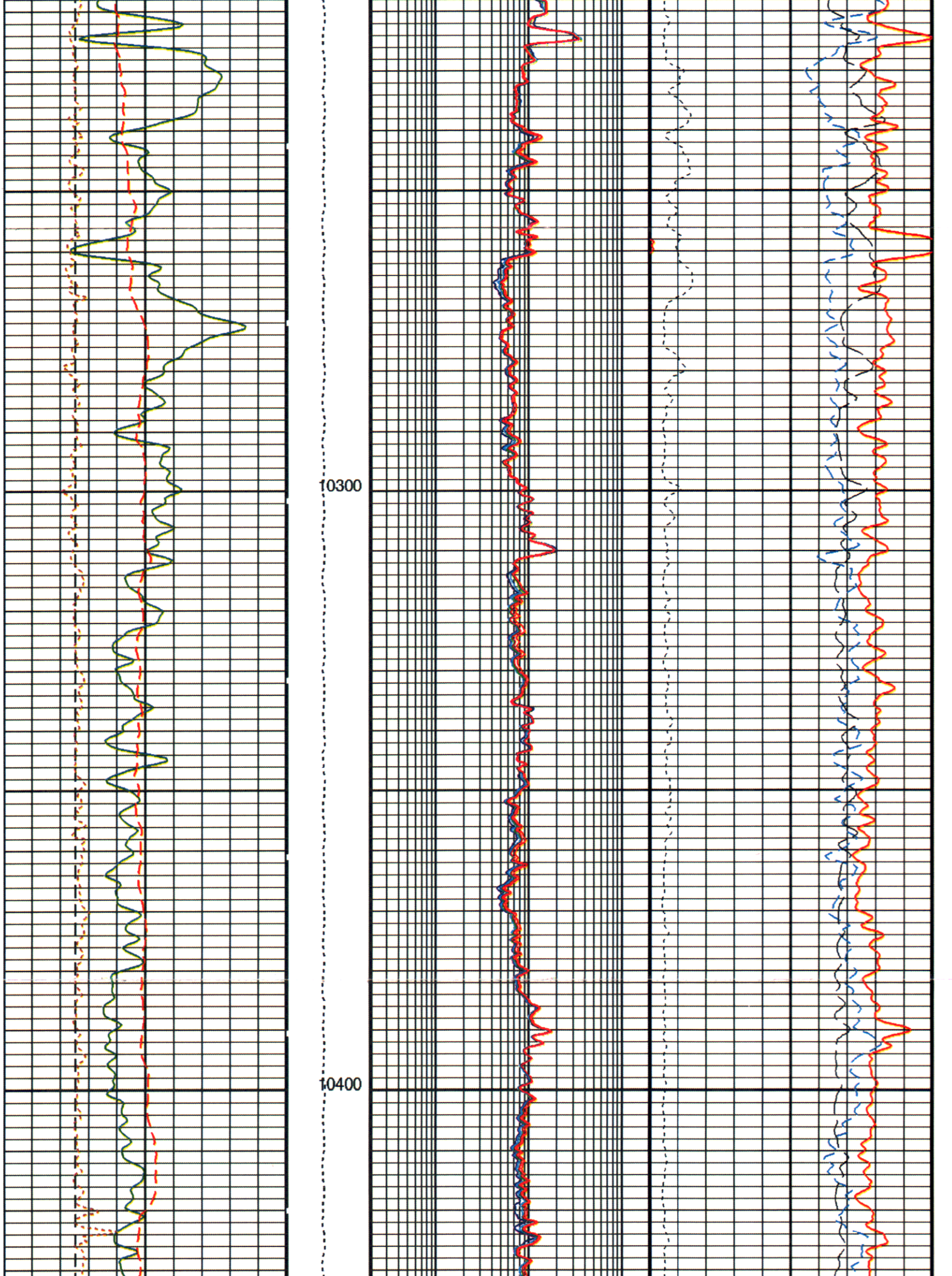
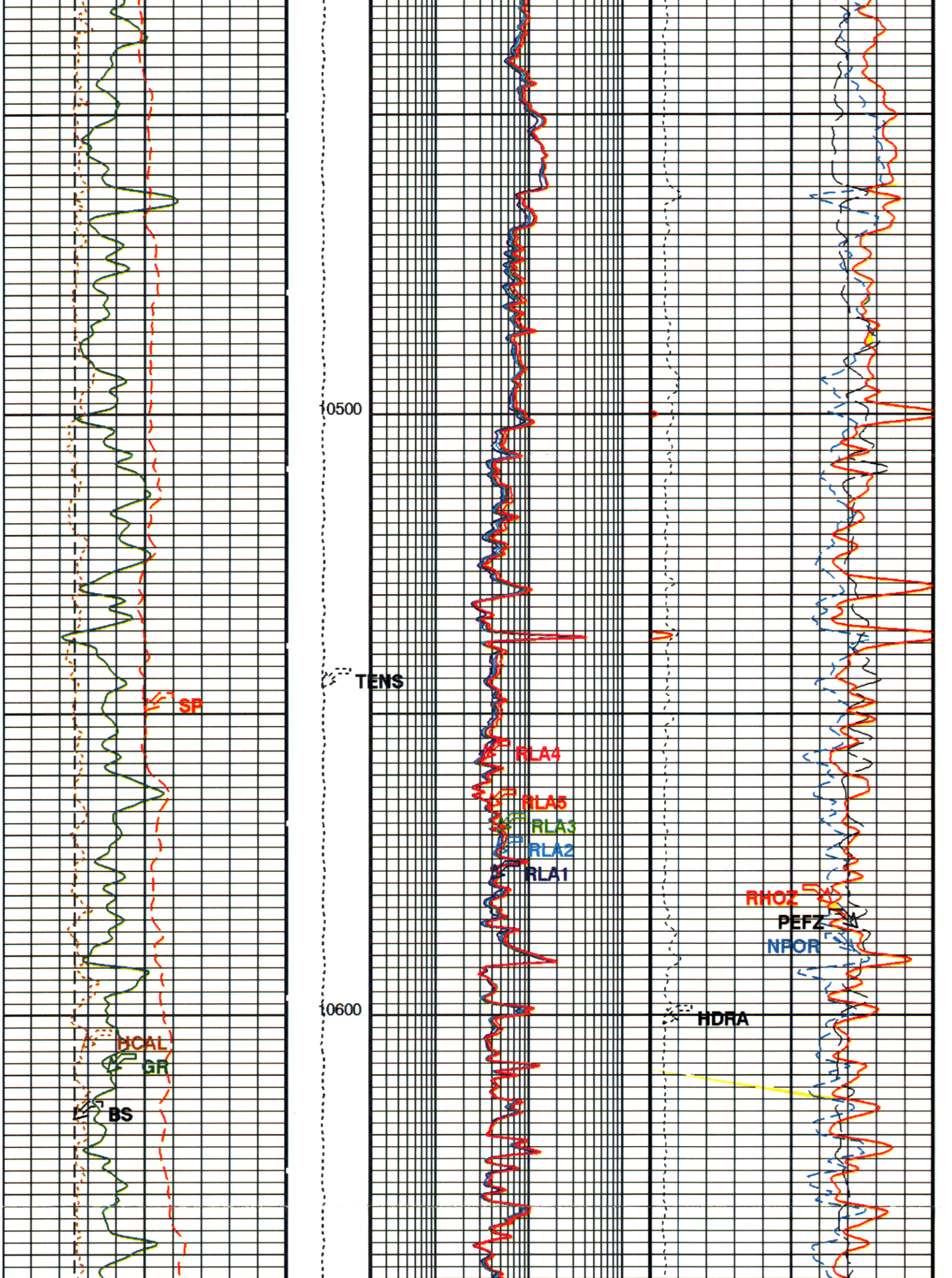
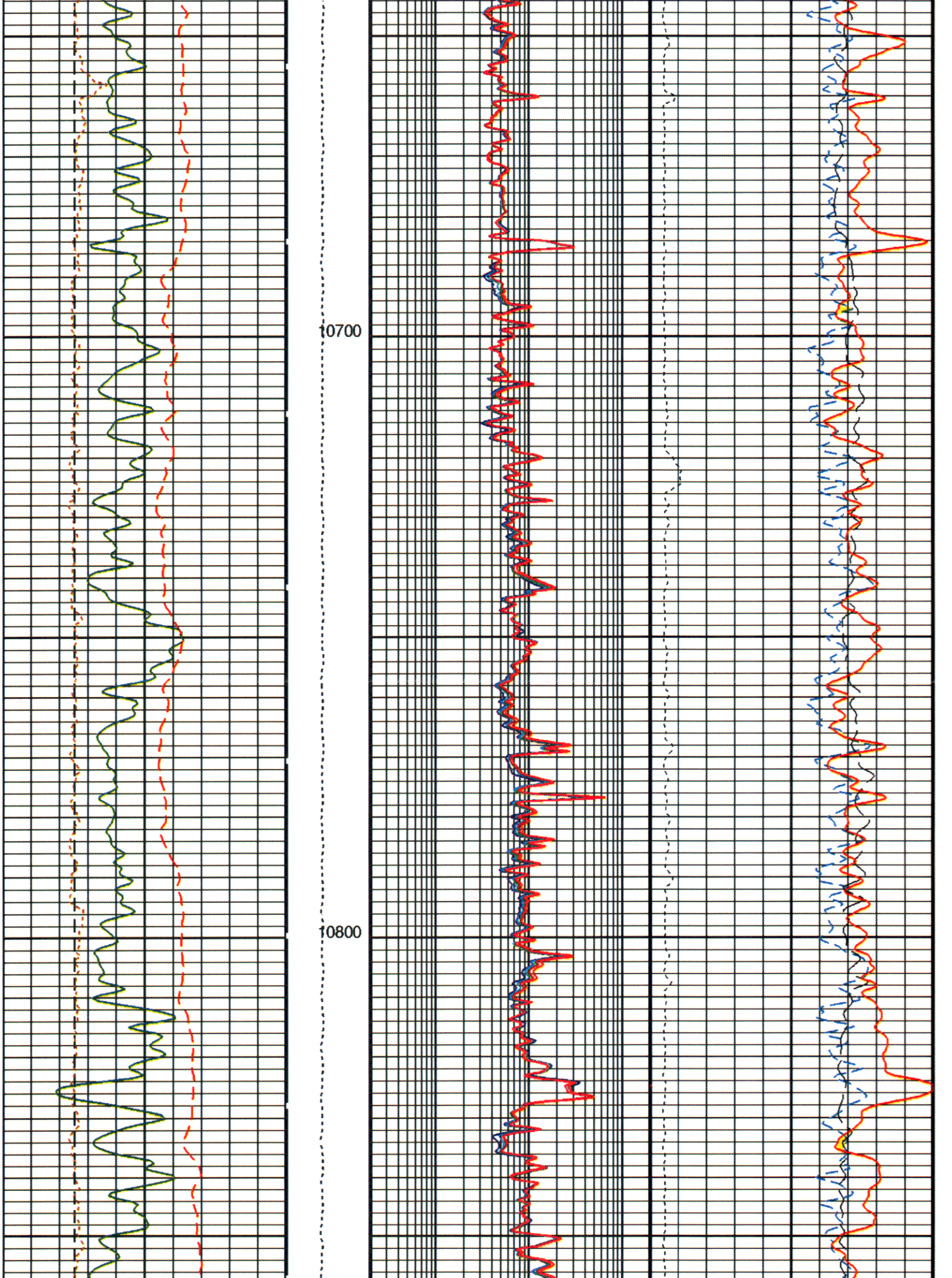
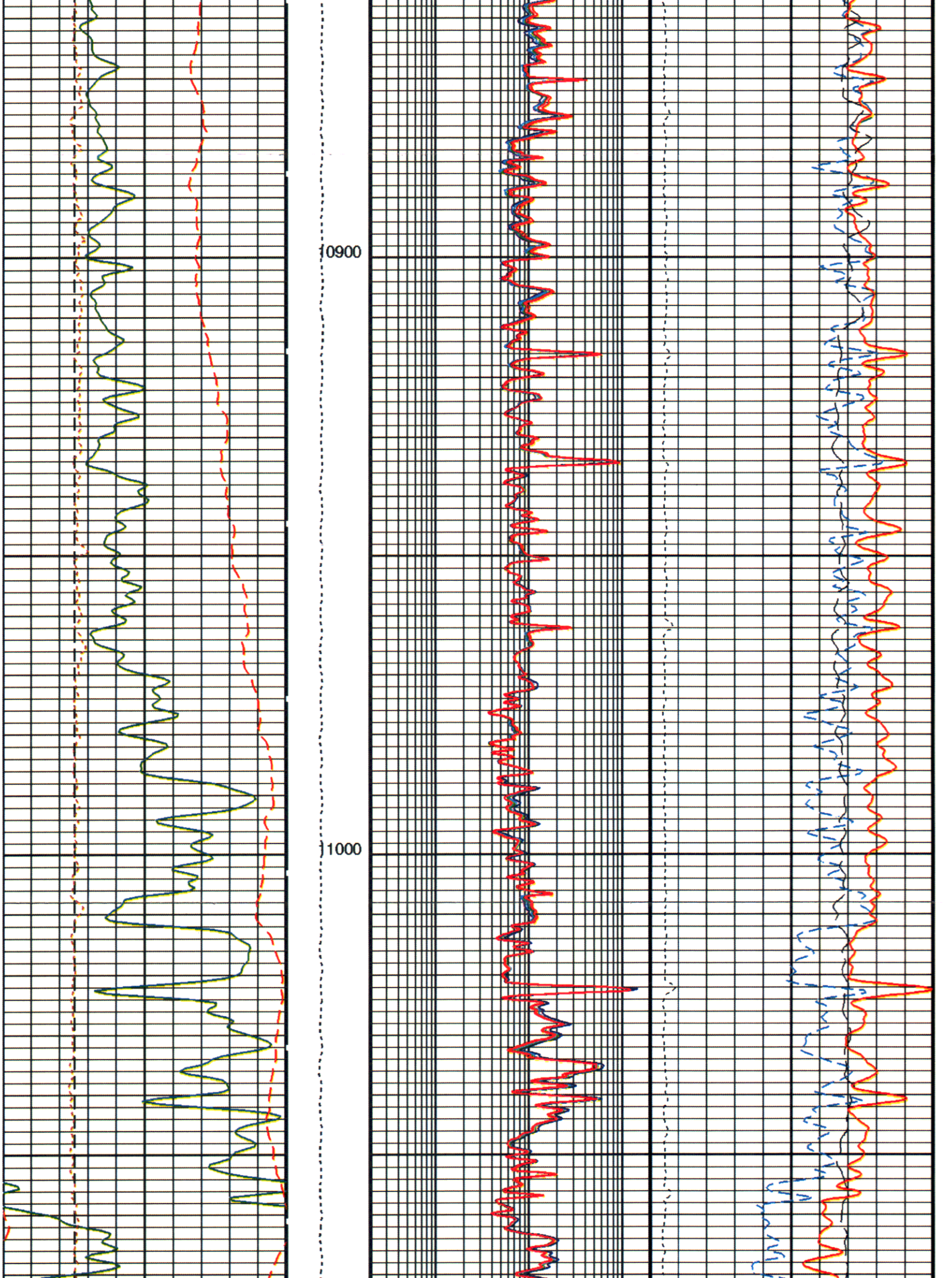

9800
9900
10000


10100
10200


10300
10400


10500
10600
TENS
SP
HCAL
GR
BS
RLA4
RLA5
RLA3
RLA2
RLA1
RHOZ
PEFZ
NPOR
HDRA


10700
10800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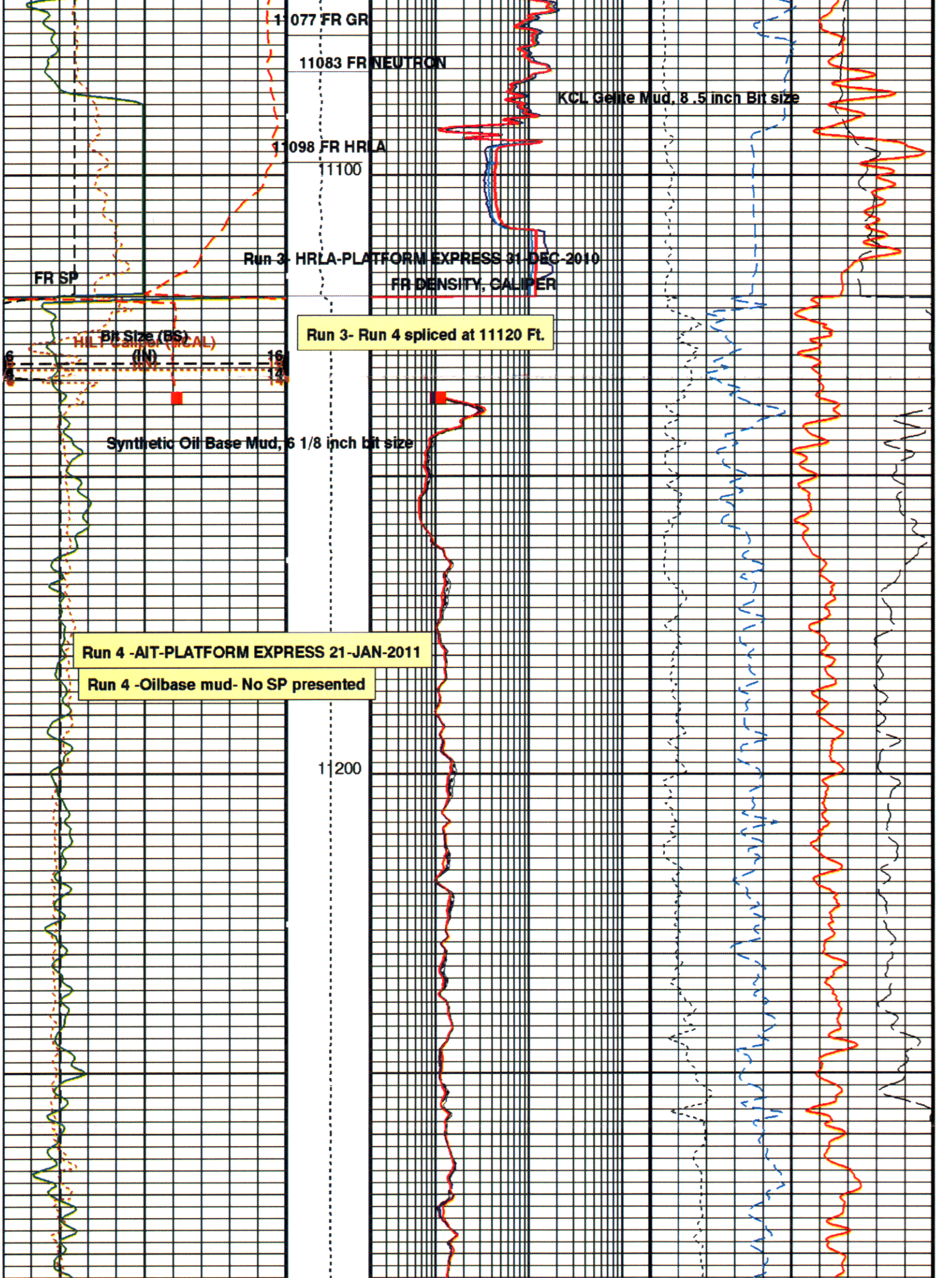
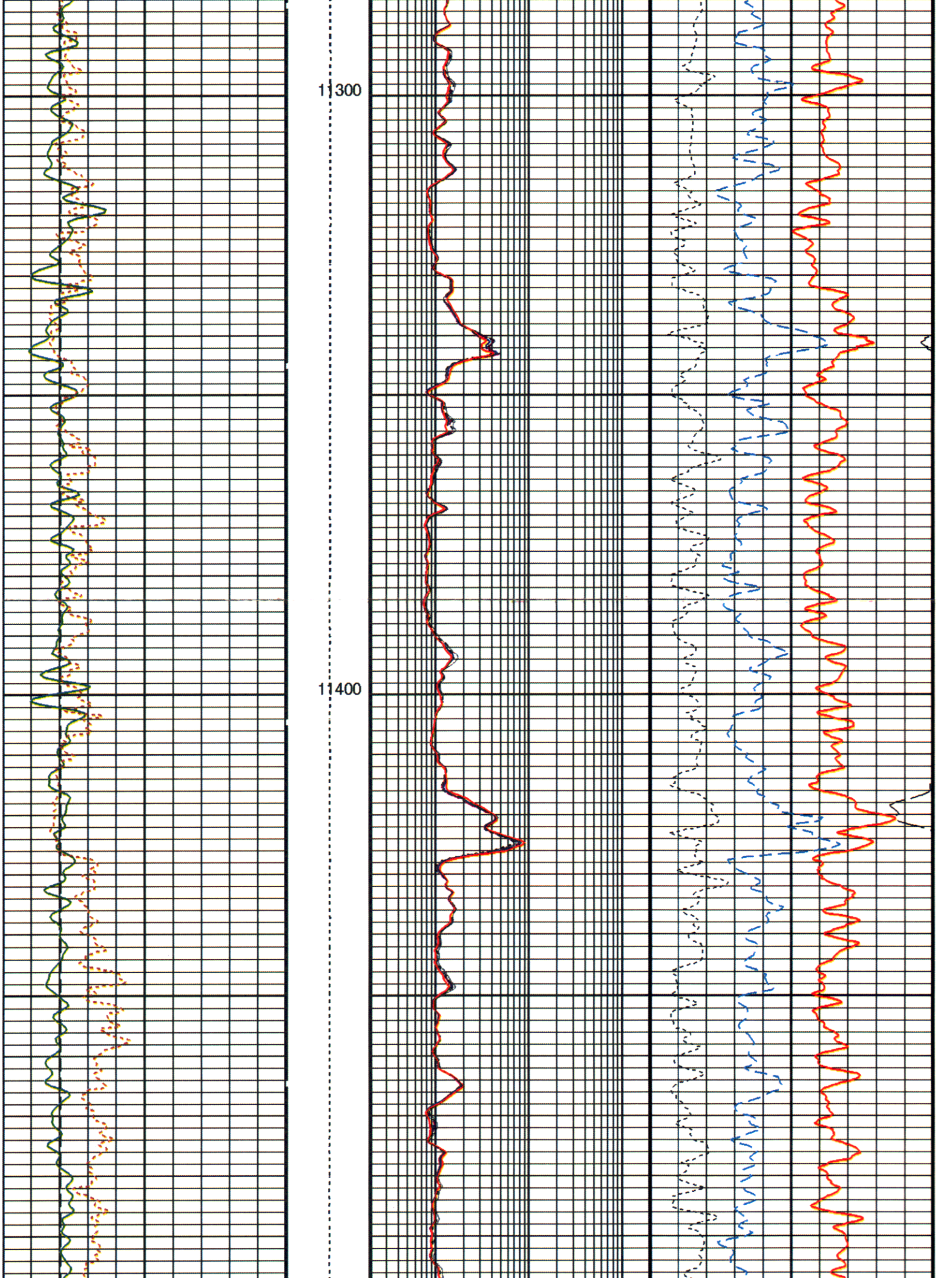
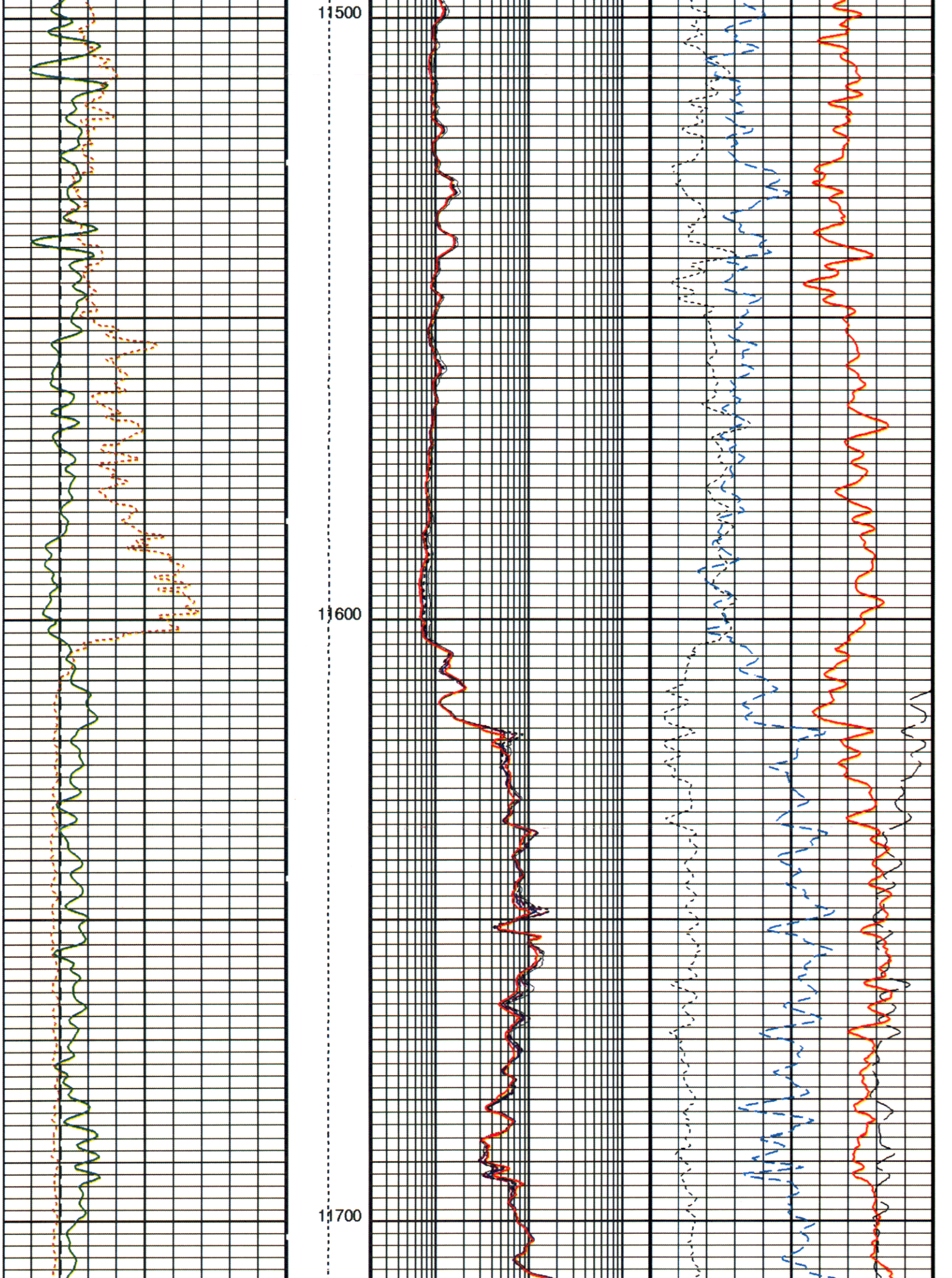
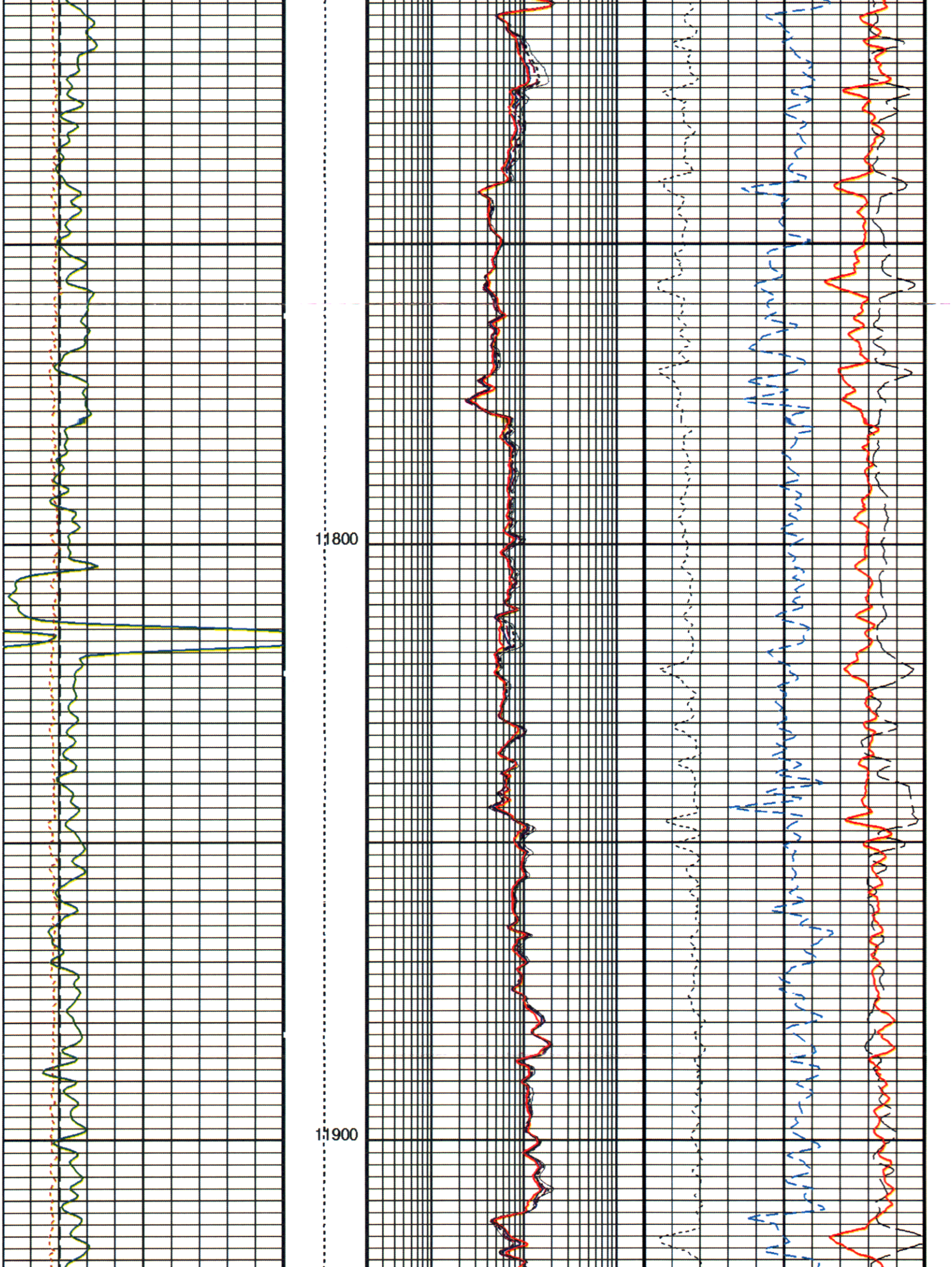
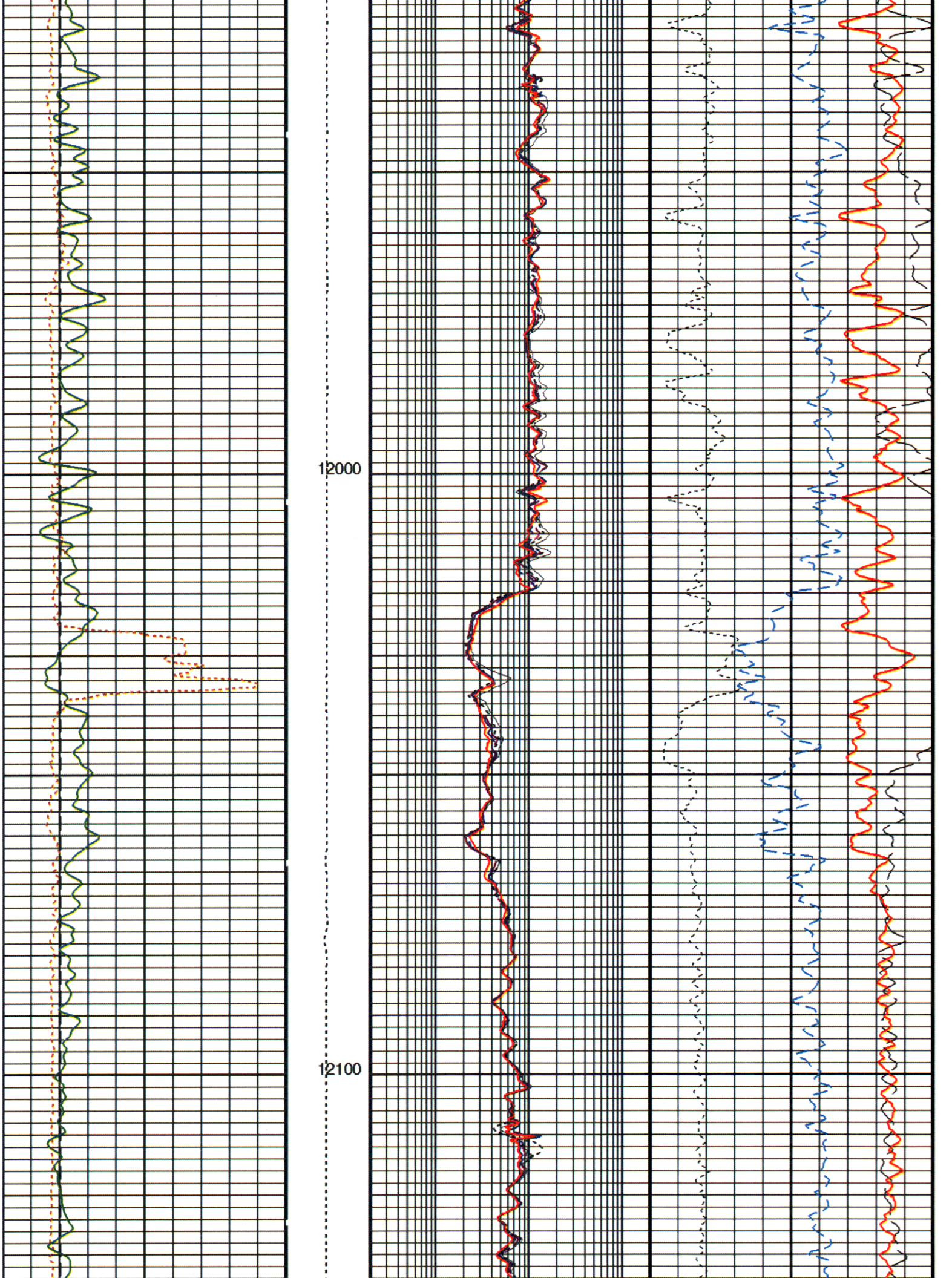
11000

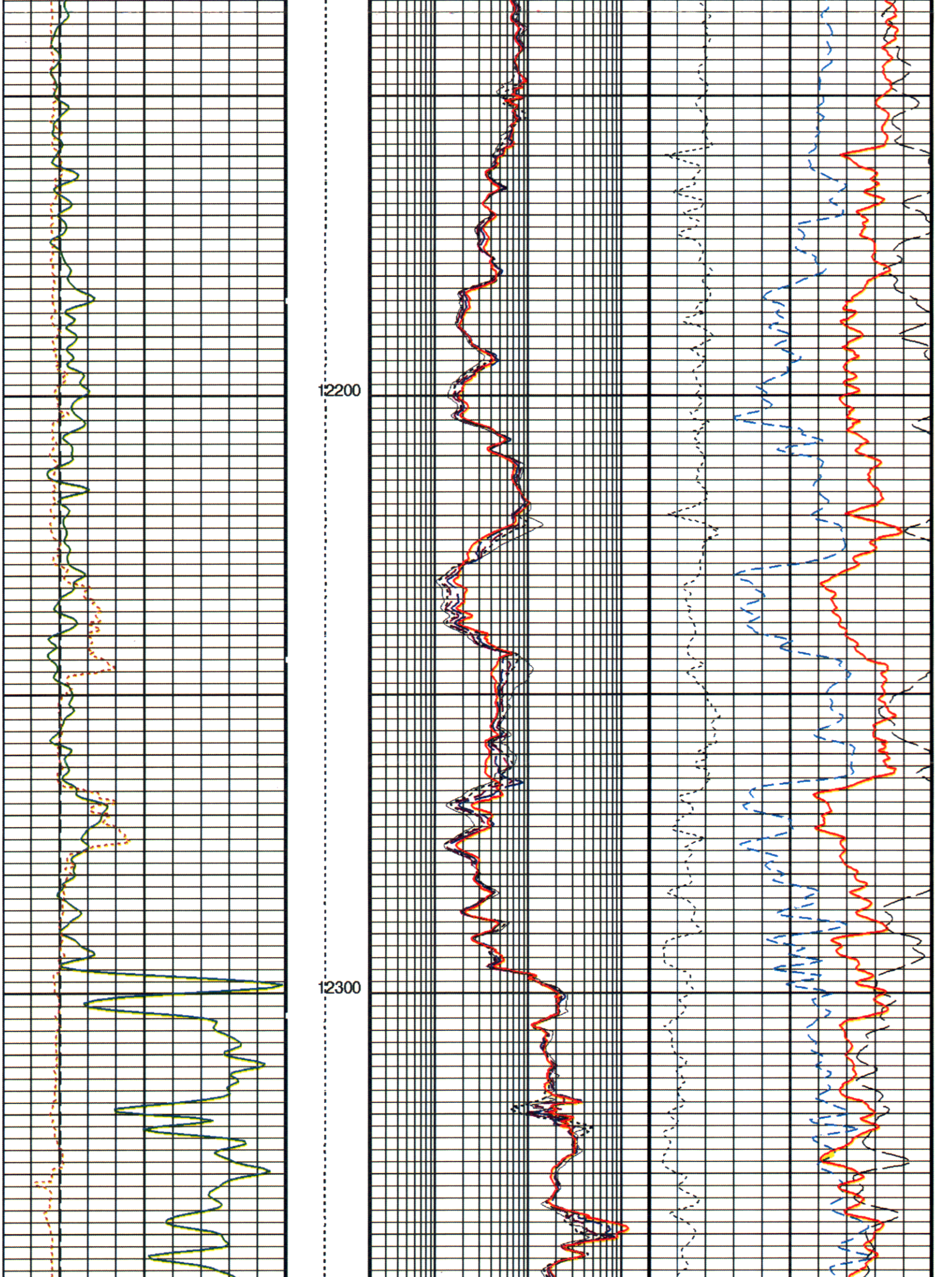

11077 FR GR
11083 FR NEUTRON
KCL Gellte Mud, 8 .5 inch Bit size
11098 FR HRLA
11100
Run 3- HRLA-PLATFORM EXPRESS 31-DEC-2010
FR SP
FR DENSITY, CALIPER
Run 3- Run 4 spliced at 11120 Ft.
Bit Size (BS)
HILT Caliper (HCAL)
(IN)
6
16
4
14
Synthetic Oil Base Mud, 6 1/8 inch bit size
Run 4 -AIT-PLATFORM EXPRESS 21-JAN-2011
Run 4 -Oilbase mud- No SP presented
11200

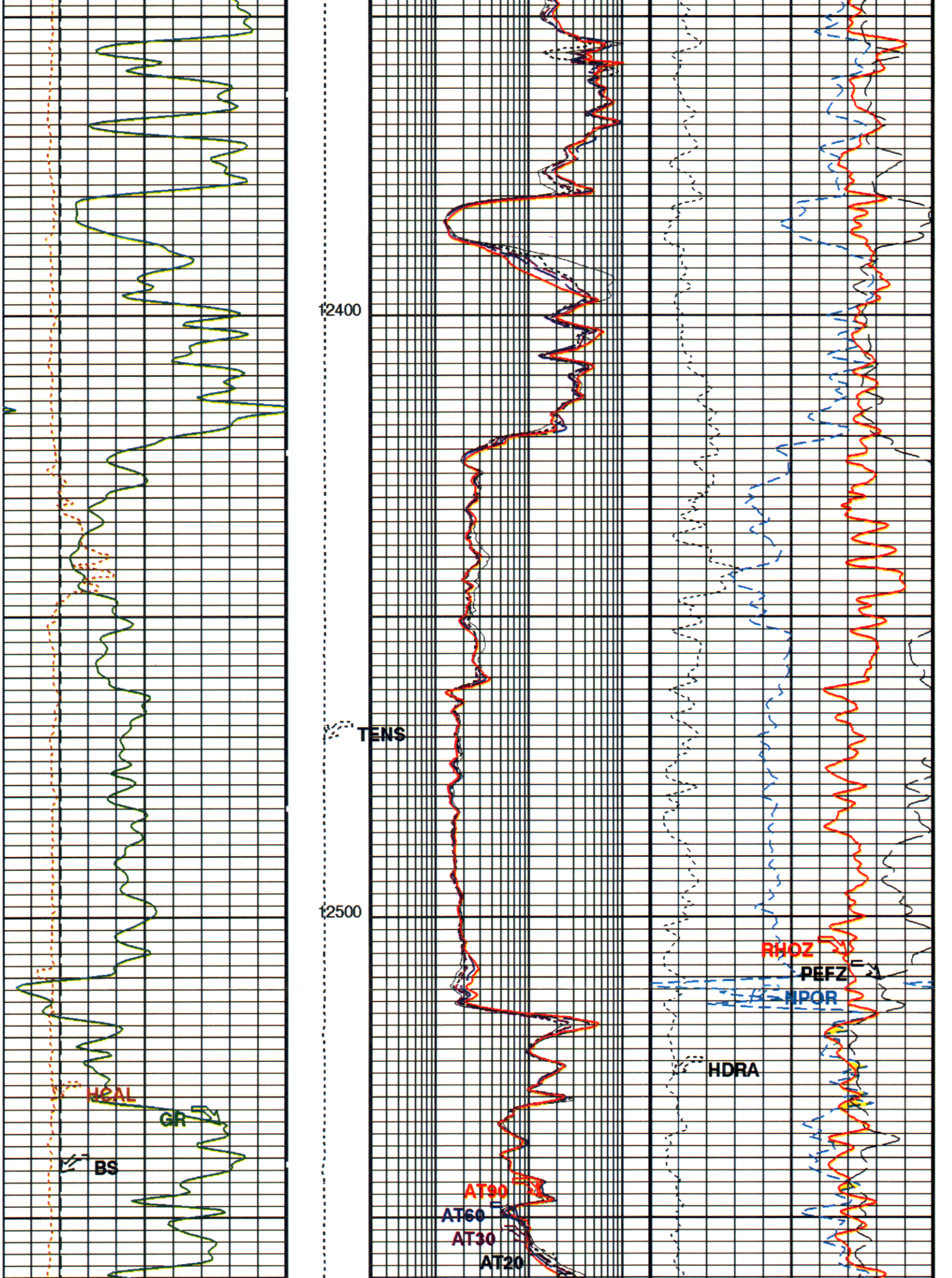

11300
11400

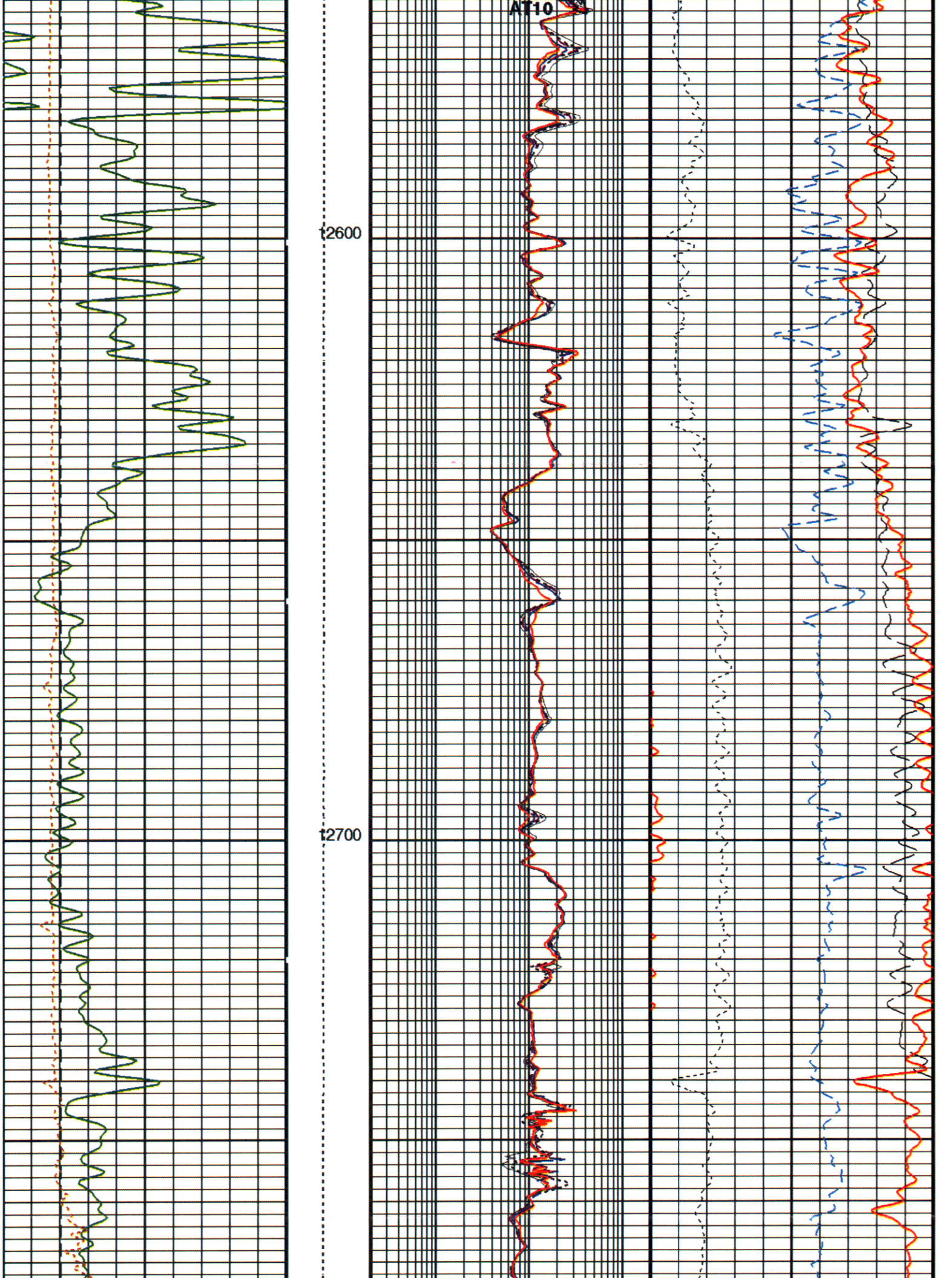

11500
11600
11700

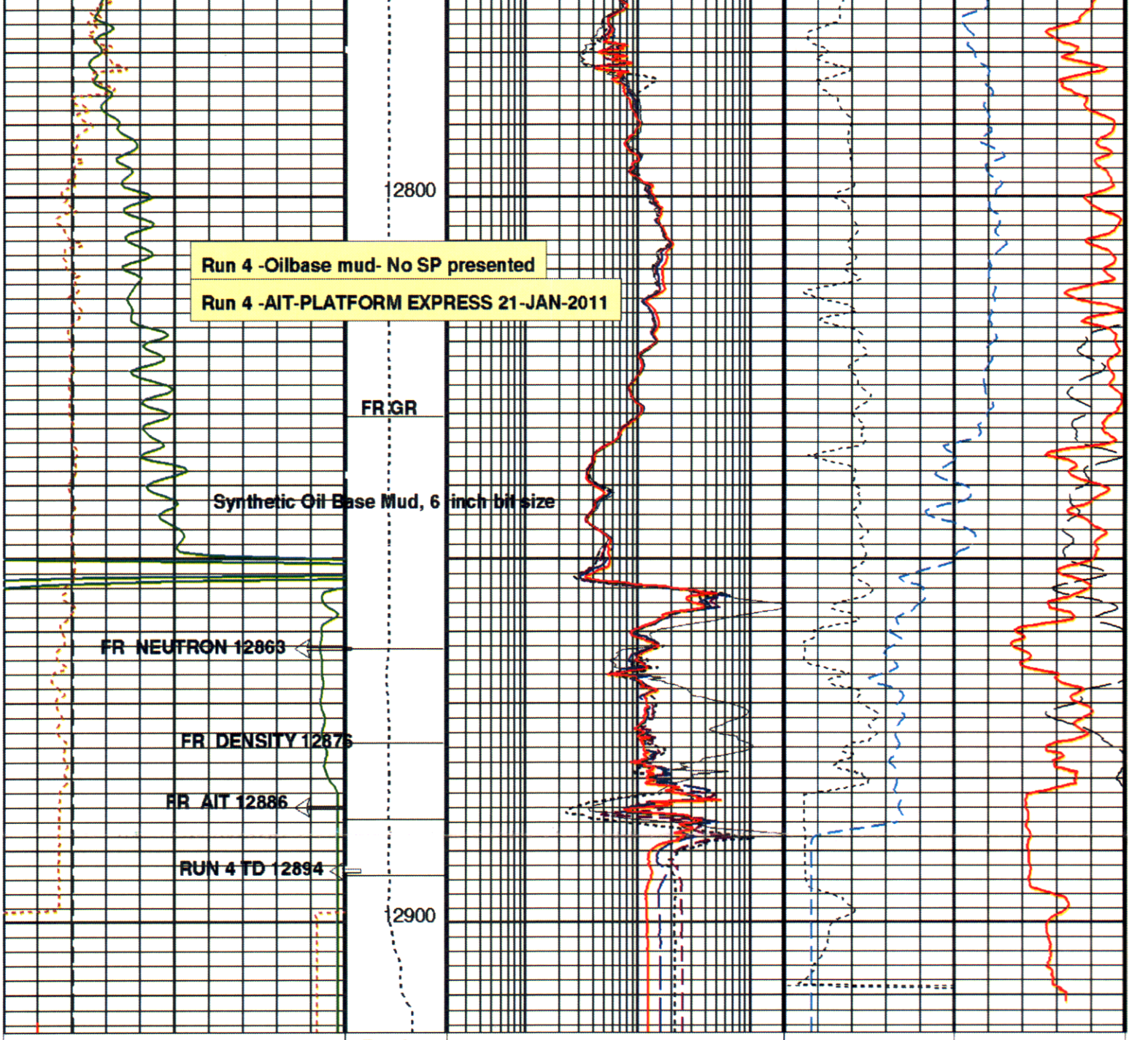

11800
11900


12000
12100


12200
12300


12400
TENS
12500
RHOZ
PEFZ
NPOR
HDRA
HCAL
GR
BS
AT90
AT60
AT30
AT20


AT10
12600
12700



Bit Size (BS) 4 (IN) 14	Tension (TENS) (LBF) 10000 0	AIT 10 Inch Investigation (AT10) 0.2 (OHMM) 200	Density Correction (HDRA) -0.05 (G/C3) 0.45
Gamma Ray (GR) 20 (GAPI) 170		AIT 20 Inch Investigation (AT20) 0.2 (OHMM) 200	Cross-Over From RHOZ to NPOR
HILT Caliper (HCAL) 4 (IN) 14		AIT 30 Inch Investigation (AT30) 0.2 (OHMM) 200	Alpha Processed Neutron Porosity (NPOR) 0.6 (V/V) 0
SP (SP) 0 (MV) -100		AIT 60 Inch Investigation (AT60) 0.2 (OHMM) 200	Std. Res. Formation Density (RHOZ) 1.68 (G/C3) 2.68
		AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 200	
		HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 200	
		HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 200	

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

0.2	(OHMM)	200
HRLT Resistivity 3 (RLA3)		
0.2	(OHMM)	200
HRLT Resistivity 5 (RLA5)		
0.2	(OHMM)	200
HRLT Resistivity 4 (RLA4)		
0.2	(OHMM)	200

PIP SUMMARY

Time Mark Every 60 S

AIT-H Answer Product Processing Summary. Data taken with Tool # 0 (AHTNO)

Log NOT Valid: Default Parameters Used - Must Reprocess

***** Borehole Correction *****

Effective Tool Standoff computed. Borehole diameter and mud res. taken as input (see GCSE and GRSE parameters)

Tool is run in ECCENTERED mode with a tool stand-off of 1.50 IN. Bit Size is 8.50 IN.

***** Input Selections to AIT-H Answer Product Processing *****

Caliper (GCSE): HCAL Mud Resistivity (GRSE): GEN_9 Temperature (GTSE): HTEM Porosity (FPHI): DPHZ

***** Other Parameters used by AIT-H Answer Product Processing *****

Mud Sample Resistivity (RMS)	0.187	OHMM	Mud Sample Temperature (MST)	54.300	DEGF
Form Factor Exponent (FEXP)	2.000		Form Factor Numerator (FNUM)	1.000	
Mud Filtrate Sample Resistivity (RMFS)	0.174	OHMM	Mud Filtrate Sample Temperature (MFST)	47.300	DEGF
Resitivity Connate Water (RW)	1.000	OHMM			

***** AIT-H Answer Product Processing Control Parameters *****

Playback Mode: OFF

Parameters

DLIS Name	Description	Value	
HAIT-H: Array Induction Tool - H			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
SPA-A: SP ADAPTOR			
SPNV	SP Next Value	0	MV
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
KFAC_HRLT	HRLT K Factor Option	SONDE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	

MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	1_ComputeElectricalDiameter	
ABHV	Array Induction Borehole Correction Code Version Number	0	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	0	
ACDE	Array Induction Casing Detection Enable	No	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	No version available	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	No version available	
ARFV	Array Induction Radial Profiling Code Version Number	0	
ARPV	Array Induction Radial Parametrization Code Version Number	0	
ASTA	Array Induction Tool Standoff	0.25	IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	No version available	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	No version available	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
HRLT-B: High Resolution Laterolog Array - B			
KFAC_HRLT	HRLT K Factor Option	SONDE	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	255	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF

	STI: Stuck Tool Indicator		
TDL	Total Depth - Logger	11127.00	FT
	System and Miscellaneous		
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	40000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	53.50	LB/F
DFD	Drilling Fluid Density	11.50	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	54.30	DEGF
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	0.1740	OHMM
TD	Total Depth	11127	FT

Format: PEX_5IN_LOG **Vertical Scale: 5" per 100'** **Graphics File Created: 18-Feb-2011 08:09**

OP System Version: 18C0-147

HAIT-H	18C0-147	SPA-A	18C0-147
HILTB-FTB	18C0-147	EDTC-B	18C0-147
AIT-M	18C0-147	HRLT-B	18C0-147
HNGC-B	18C0-147	HNGS-BA	18C0-147
GPIT-F	18C0-147		

Input DLIS Files

DEFAULT	SPLICE_AIT_TLD_MCFL_126	FN:1	PRODUCER	18-Feb-2011 06:44	12915.0 FT	178.0 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_IS_139PUP	FN:13	PRODUCER	18-Feb-2011 08:09

Company: OXY USA - LA BASIN

Schlumberger

Well: DOM-001
Field: Dominguez
County: Los Angeles
State: California

PLATFORM EXPRESS
HRLA LATEROLOG RESISTIVITY