



Company: SANDRIDGE ENERGY

Well: MARIE 3306 2-26H

Field: STOHRVILLE

County: HARPER

State: KANSAS

**DUAL SPACED NEUTRON
SPECTRAL DENSITY
MEMORY LOG**

County: HARPER
Field: STOHRVILLE
Location: SHL: 400' FSL & 400' FEL
Well: MARIE 3306 2-26H
Company: SANDRIDGE ENERGY

LOCATION		SHL: 400' FSL & 400' FEL	Elev.: K.B. 1282.00 ft
		PBHL: 330' FNL & 800' FEL	G.L. 1260.00 ft
			D.F. 1282.00 ft
Permanent Datum:	GROUND LEVEL	Elev.: 1260.00 ft	
Log Measured From:	K.B.	22.00 ft	above Perm. Datum
Drilling Measured From:	K.B.		
API Serial No.	Section	Township	Range
15077220280100	26	33S	06W

Logging Date	14-Apr-2014		
Run Number	1		
Depth Driller	8808 ft		
Schlumberger Depth	8734 ft		
Bottom Log Interval	8717 ft		
Top Log Interval	5226 ft		
Casing Driller Size @ Depth	7.000 in @ 5200 ft		
Casing Schlumberger	5226 ft		
Bit Size	6.125 in		
Type Fluid In Hole	WBM		
Density	8.6 lbm/gal	42 s	
Fluid Loss	4.5 cm3	10	
Source Of Sample	MUD SENSOR		
RM @ Measured Temperature	1.520 ohm.m	@	58 degF
RMF @ Measured Temperature	1.140 ohm.m	@	58 degF
RMC @ Measured Temperature	1.880 ohm.m	@	58 degF
Source RMF	RMC	CALCULATED	CALCULATED
RM @ MRT	RMF @ MRT		
	0.666 @ 141	0.500 @ 141	
Maximum Recorded Temperatures	141 degF		
Circulation Stopped	Time	Time	
Logger On Bottom	14-Apr-2014	Time	5:00
Unit Number	11	Location	OKC, OK
Recorded By	DENGLER		
Witnessed By	JERRY BIAS		

Logging Date	14-Apr-2014			Run 1	Run 2	Run 3
Run Number	1					
Depth Driller	8808 ft					
Schlumberger Depth	8734 ft					
Bottom Log Interval	8717 ft					
Top Log Interval	5226 ft					
Casing Driller Size @ Depth	7.000 in @ 5200 ft					
Casing Schlumberger	5226 ft					
Bit Size	6.125 in					
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Source Of Sample	MUD SENSOR					
RM @ Measured Temperature	1.520 ohm.m	@	58 degF			
RMF @ Measured Temperature	1.140 ohm.m	@	58 degF			
RMC @ Measured Temperature	1.880 ohm.m	@	58 degF			
Source RMF	RMC	CALCULATED	CALCULATED			
RM @ MRT	RMF @ MRT					
	0.666 @ 141	0.500 @ 141				
Maximum Recorded Temperatures	141 degF					
Circulation Stopped	Time	Time				
Logger On Bottom	14-Apr-2014	Time	5:00			
Unit Number	11	Location	OKC, OK			
Recorded By	DENGLER					
Witnessed By	JERRY BIAS					

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: THRU BIT
 OS2: PORTAL BIT
 OS3:
 OS4:
 OS5:

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 SERVICE: LEVEL 4 HORIZONTAL MEMORY PUMPDOWN BIT SIZE: 8671'
 ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST
 LIMESTONE POROSITY, 2.71 G/CC USED FOR POROSITY CALCULATIONS
 LOG RAN WITH SWIVEL, DECENTRALIZER AND NO STANDOFFS
 TBHV REPRESENTS TOTAL BOREHOLE VOLUME, FT3
 ABHV REPRESENTS ANNULAR BOREHOLE VOLUME, FT3 CALCULATED FOR 4.5" CASING
 LOG DEPTH CORRELATED TO MWD PROVIDED BY CUSTOMER
 USED HSPM AND RIGSENSE FOR LOG DEPTH
 RIG: LATSHAW 27
 CREW: J. DENGLER, Z. HOWARD, E. PRICE

REMARKS: RUN NUMBER 2
 LOGGED TO: 5226'

RUN 1		
SERVICE ORDER #:	2760	
PROGRAM VERSION:	19C2-270	
FLUID LEVEL:	0 ft	
LOGGED INTERVAL	START	STOP

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

EQUIPMENT DESCRIPTION

RUN 1

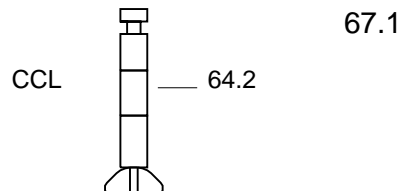
SURFACE EQUIPMENT

WITM (ThruBit)

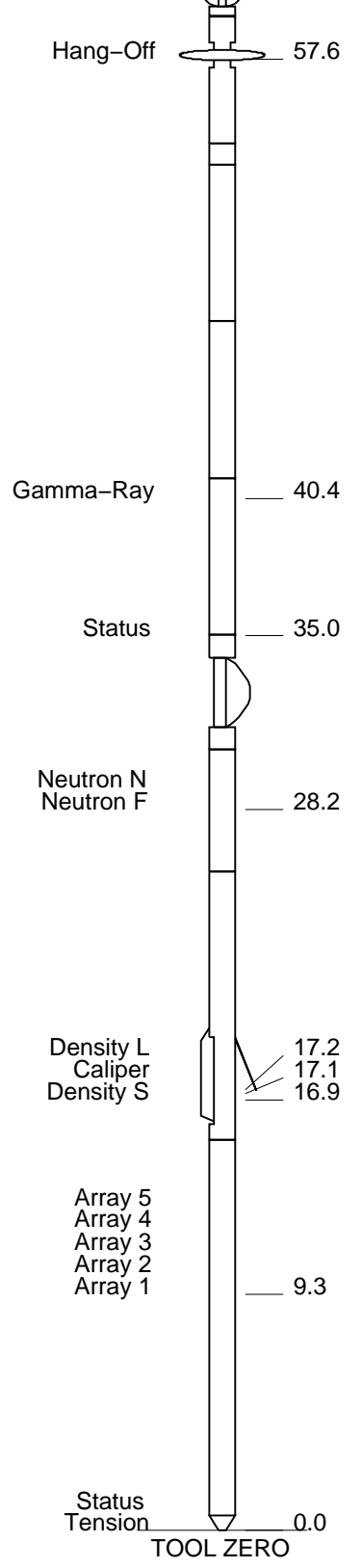
RUN 2

DOWNHOLE EQUIPMENT

TBT-A
 THEAD 21
 CCL
 BDOT-B
 THOT
 T10_1
 TBAT1 29
 TBAT2 30



TMG-A 34
TILE-A 42
TBN-A 27
NNLS-EWA 3754
TBD-A 24
GGLS-FZ 3351
TBI-A 16



MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS

MAXIS Field Log

Company: SANDRIDGE ENERGY

Well: MARIE 3306 2-26H

Input DLIS Files

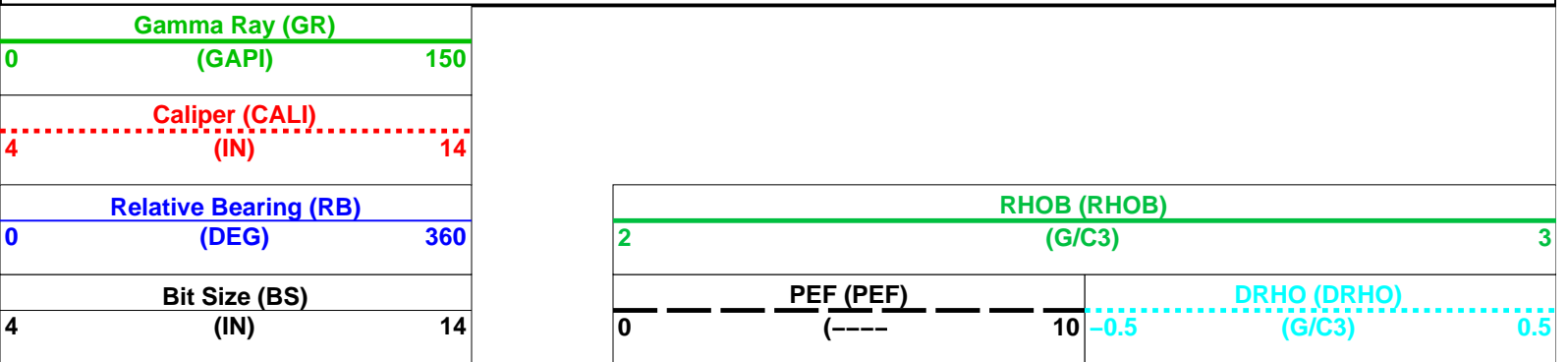
DEFAULT ThruBit_014PUP FN:13 PRODUCER 14-Apr-2014 13:54 8729.4 FT 2495.4 FT

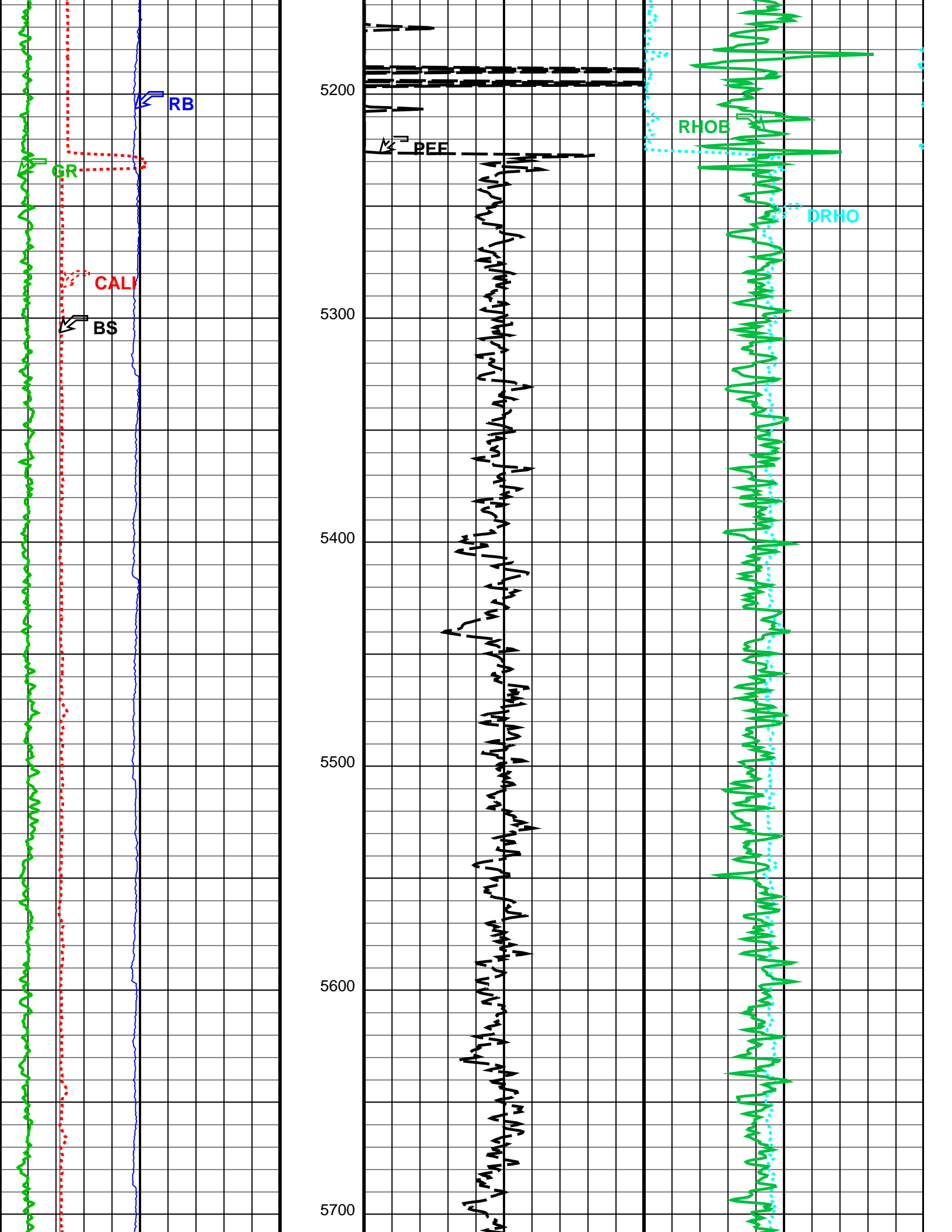
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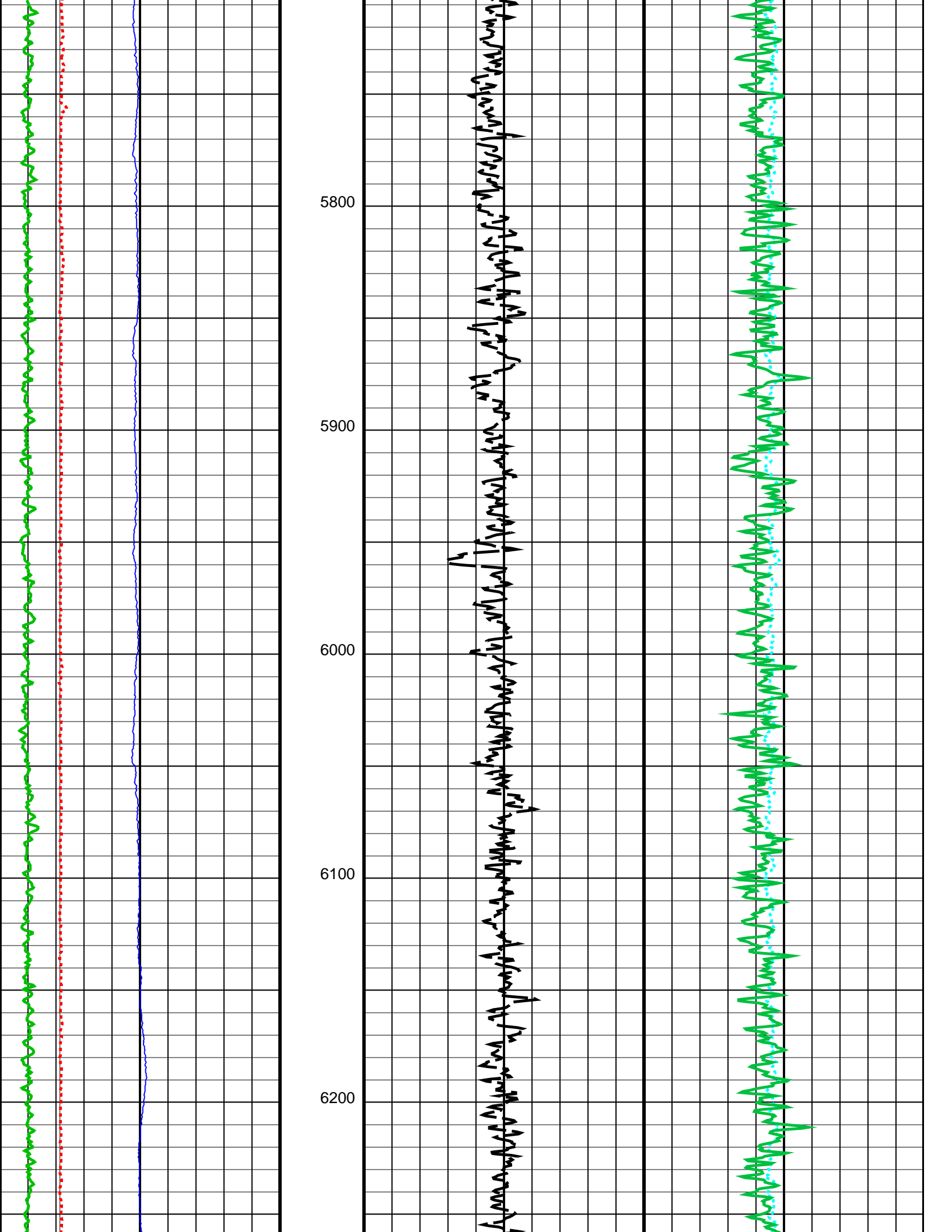
TBT .017 FN:16 14-Apr-2014 14:03 8729.4 FT 5144.4 FT

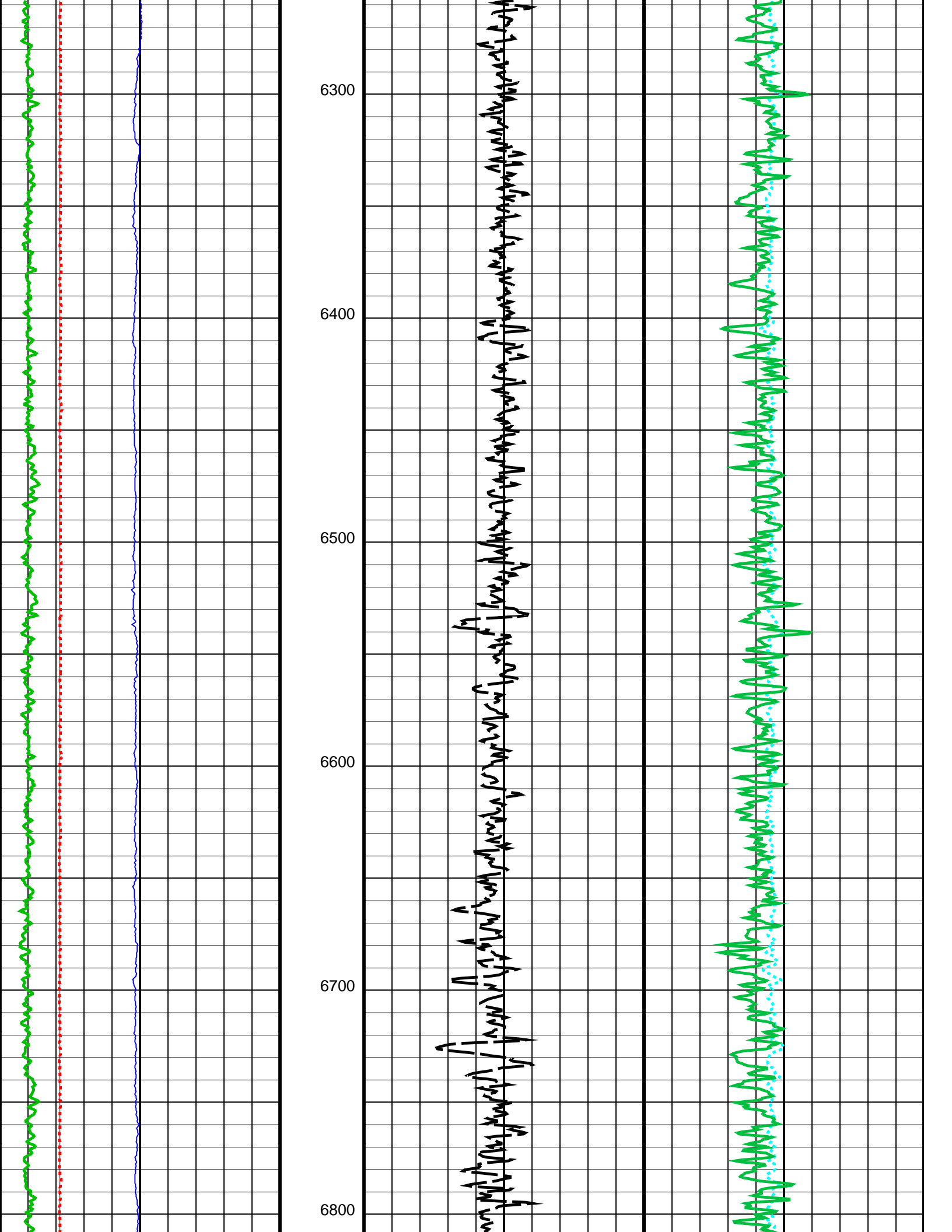
OP System Version: 19C2-270

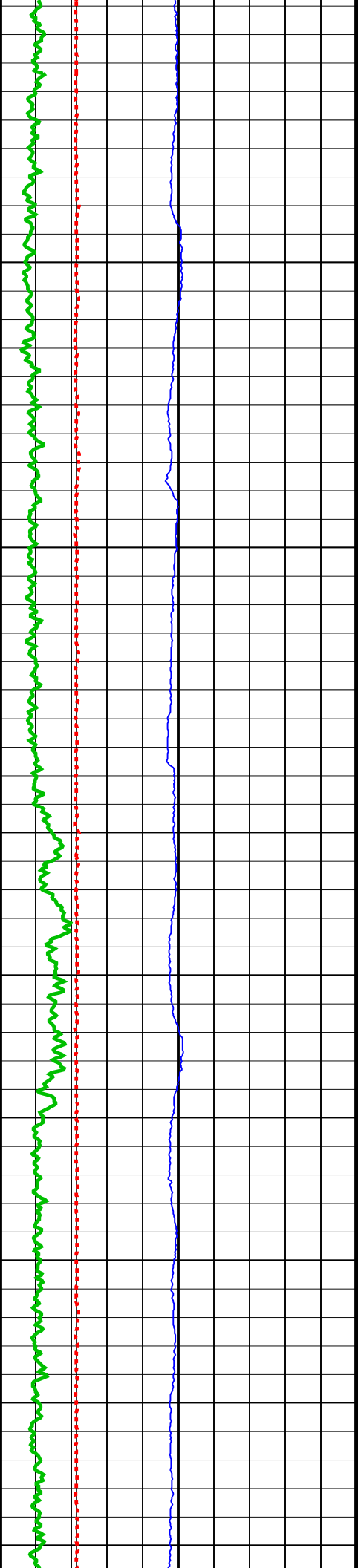
TBT SRPC-5298-ThruBit_b











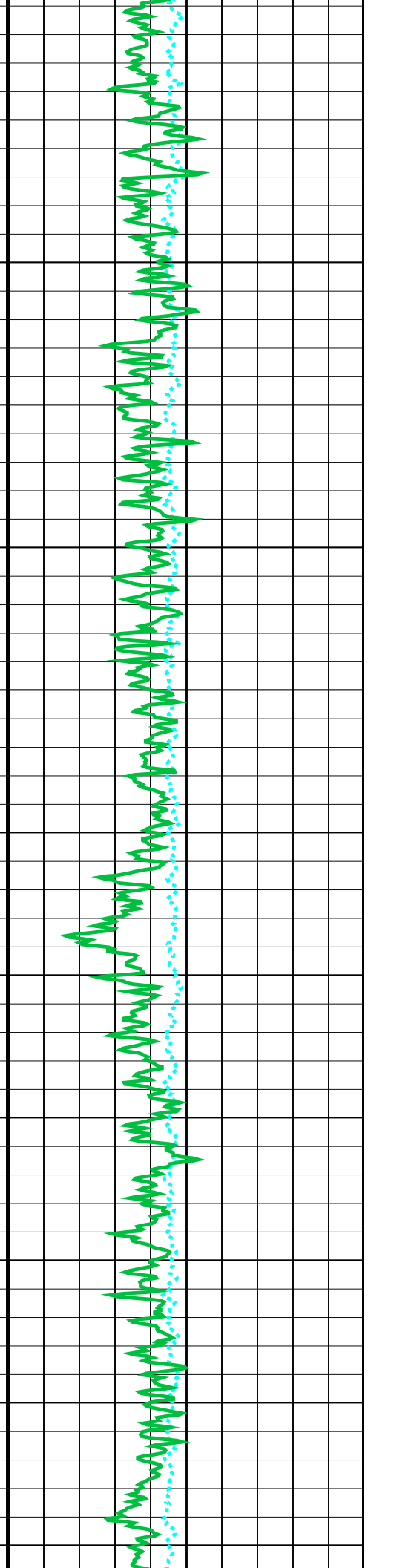
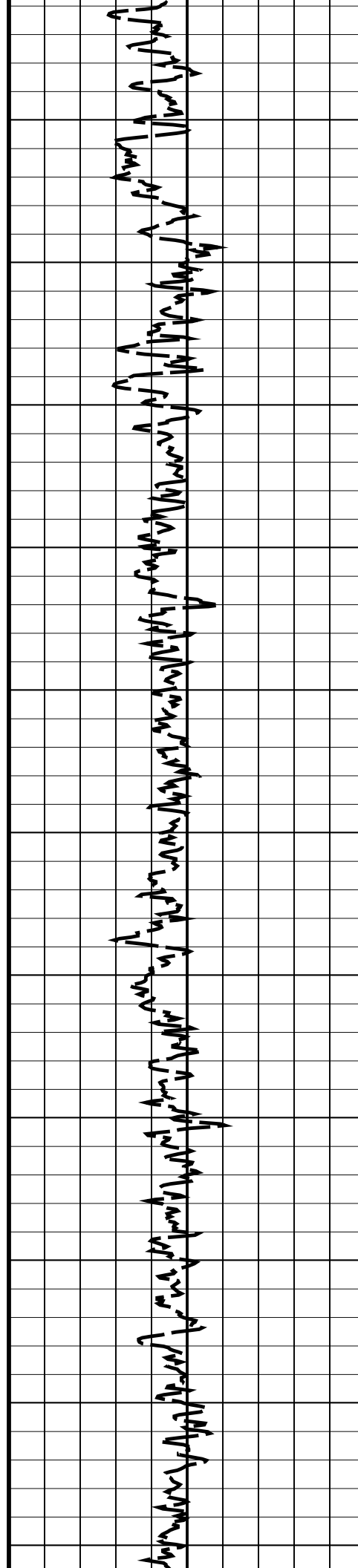
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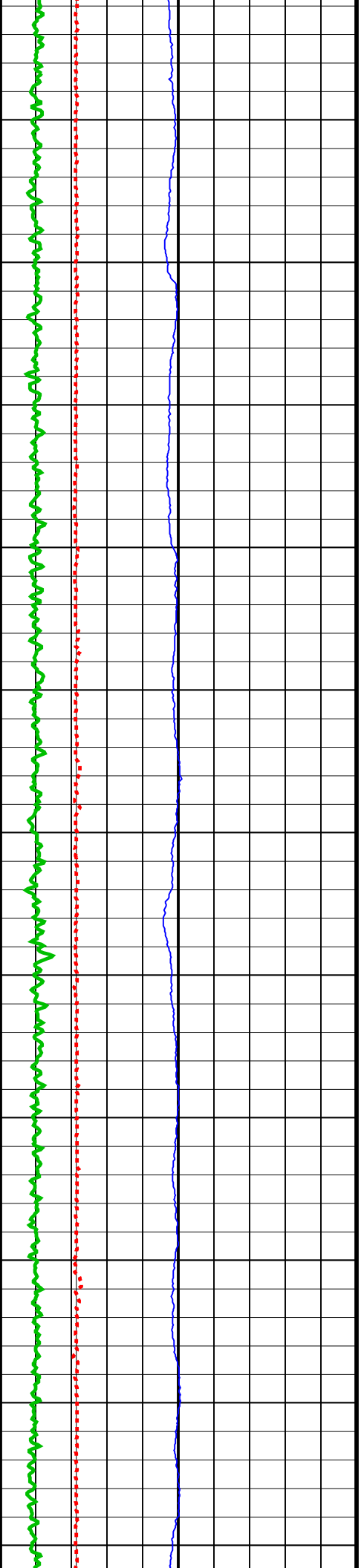
7000

7100

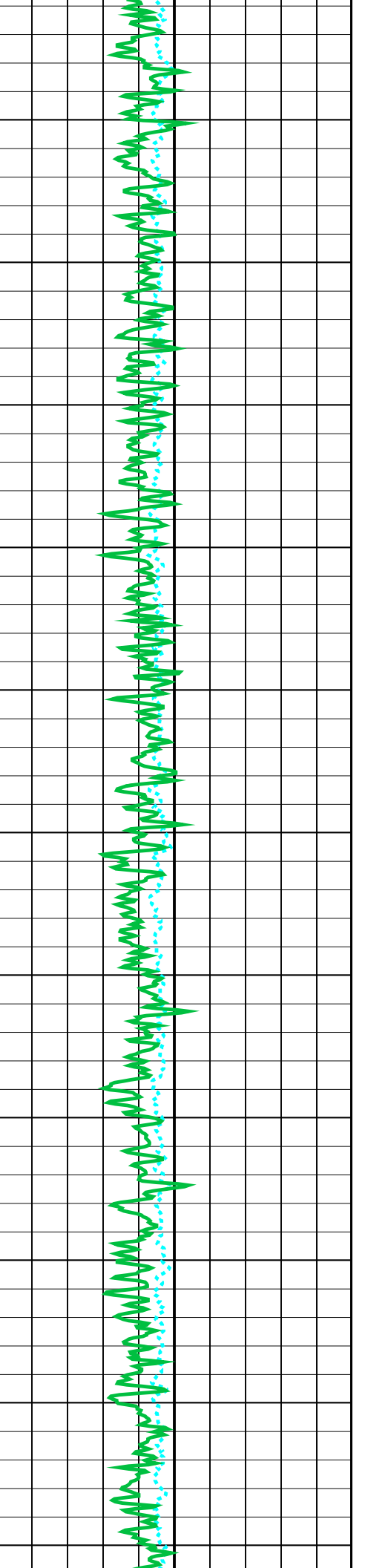
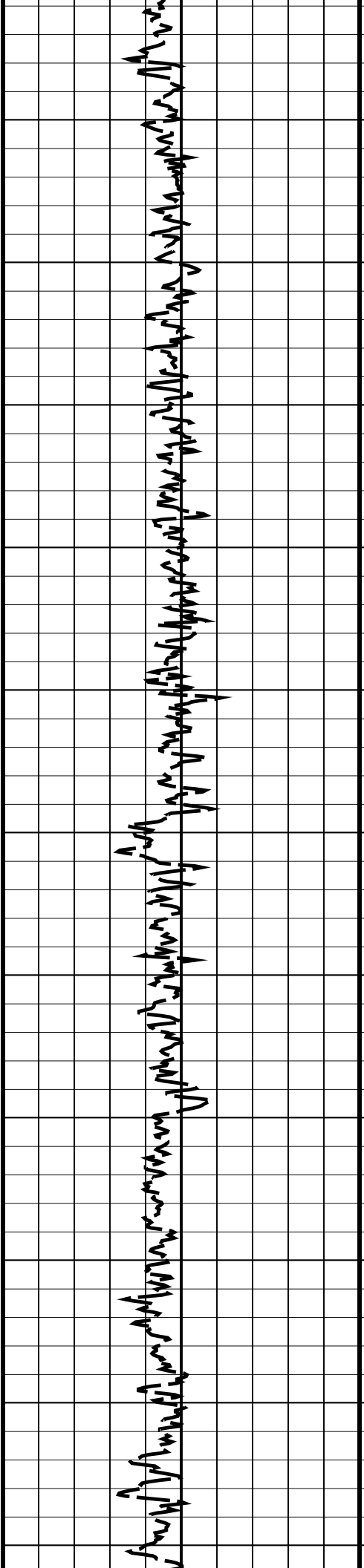
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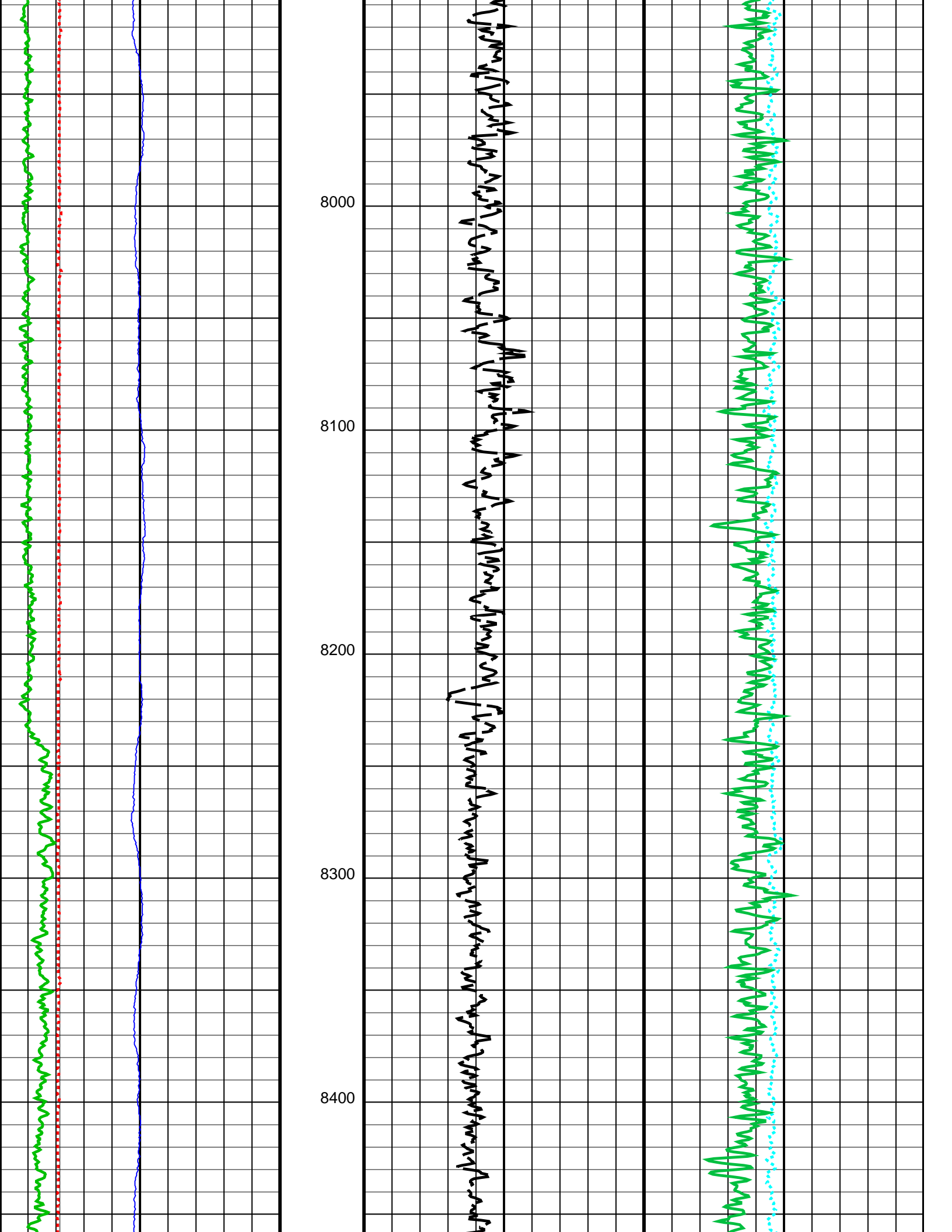
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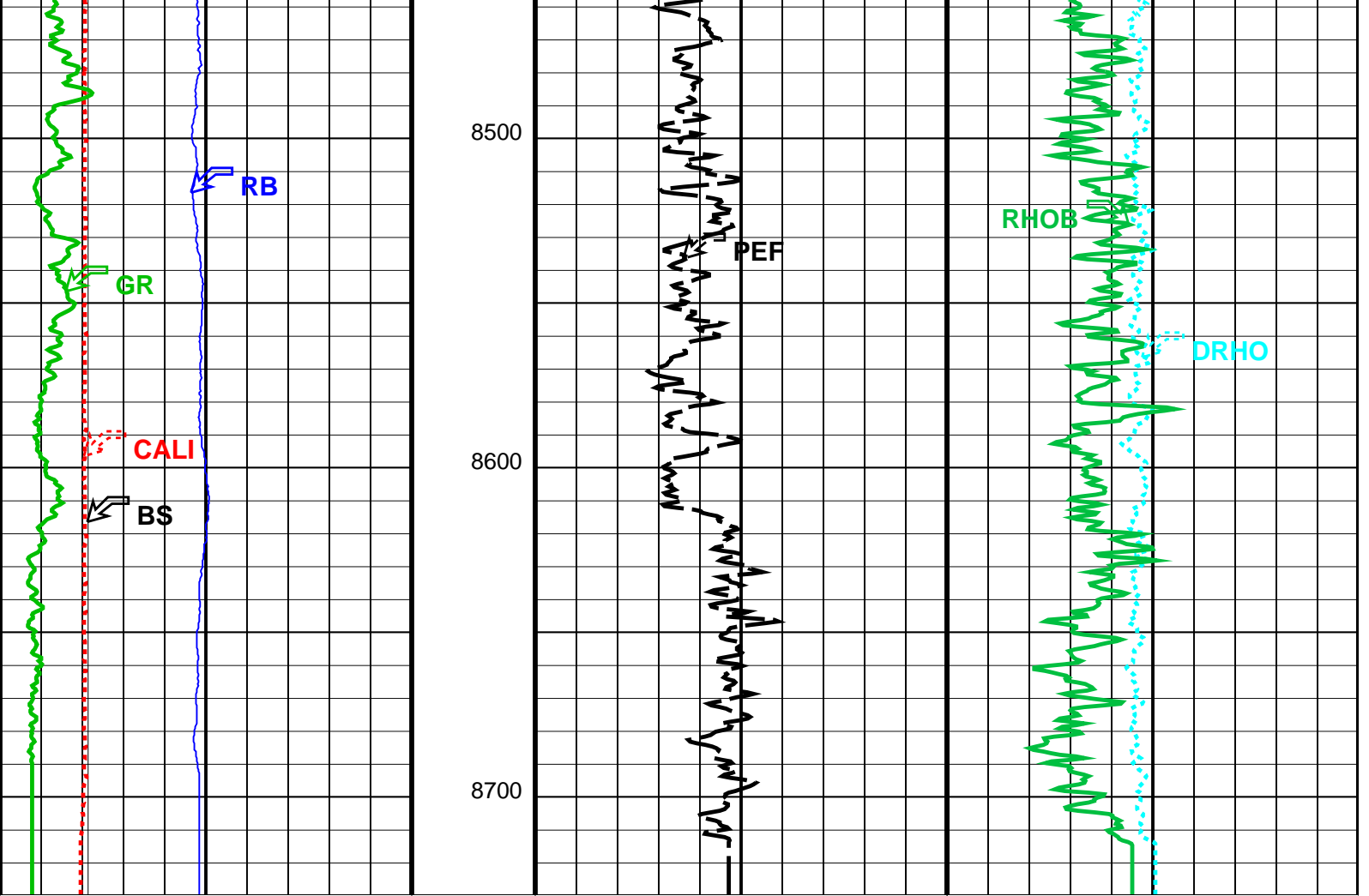




7400
7500
7600
7700
7800
7900







4	Bit Size (BS) (IN)	14	0	PEF (PEF) (----	10	-0.5	RHOB (RHOB) (G/C3)	0.5
0	Relative Bearing (RB) (DEG)	360	2					3
4	Caliper (CALI) (IN)	14						
0	Gamma Ray (GR) (GAPI)	150						

Parameters

DLIS Name	Description	Value
TBT-A: ThruBit String		
DHC	Density Hole Correction	BS
RB_OFFSET	Additional RB offset (degrees)	0.000 deg
TBD_CAL_BLOCK	TBD Calibration Block Type	THRUBIT
TBD_SPIKE_REJECT	TBD Spike Detection Option	DETECT
TBD_SPIKE_THRESHOLD	TBD Attenuation Change Threshold for Spike Detection	5.000 %
WMUD	Mud Weight	8.600 lbm/gal
System and Miscellaneous		
BS	Bit Size	6.125 in

Format: TB_2INCH_NUCLEAR Vertical Scale: 2" per 100' Graphics File Created: 14-Apr-2014 14:03

OP System Version: 19C2-270

TBT SRPC-5298-ThruBit_b

Input DLIS Files

DEFAULT	ThruBit_014PUP	FN:13	PRODUCER	14-Apr-2014 13:54	8729.4 FT	2495.4 FT
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MAIN PASS

MAXIS Field Log

Company: SANDRIDGE ENERGY

Well: MARIE 3306 2-26H

Input DLIS Files

DEFAULT ThruBit_014PUP FN:13 PRODUCER 14-Apr-2014 13:54 8729.4 FT 2495.4 FT

Output DLIS Files

TBT .019 FN:18 14-Apr-2014 14:05 8729.4 FT 2495.4 FT

Integrated Hole/Cement Volume Summary

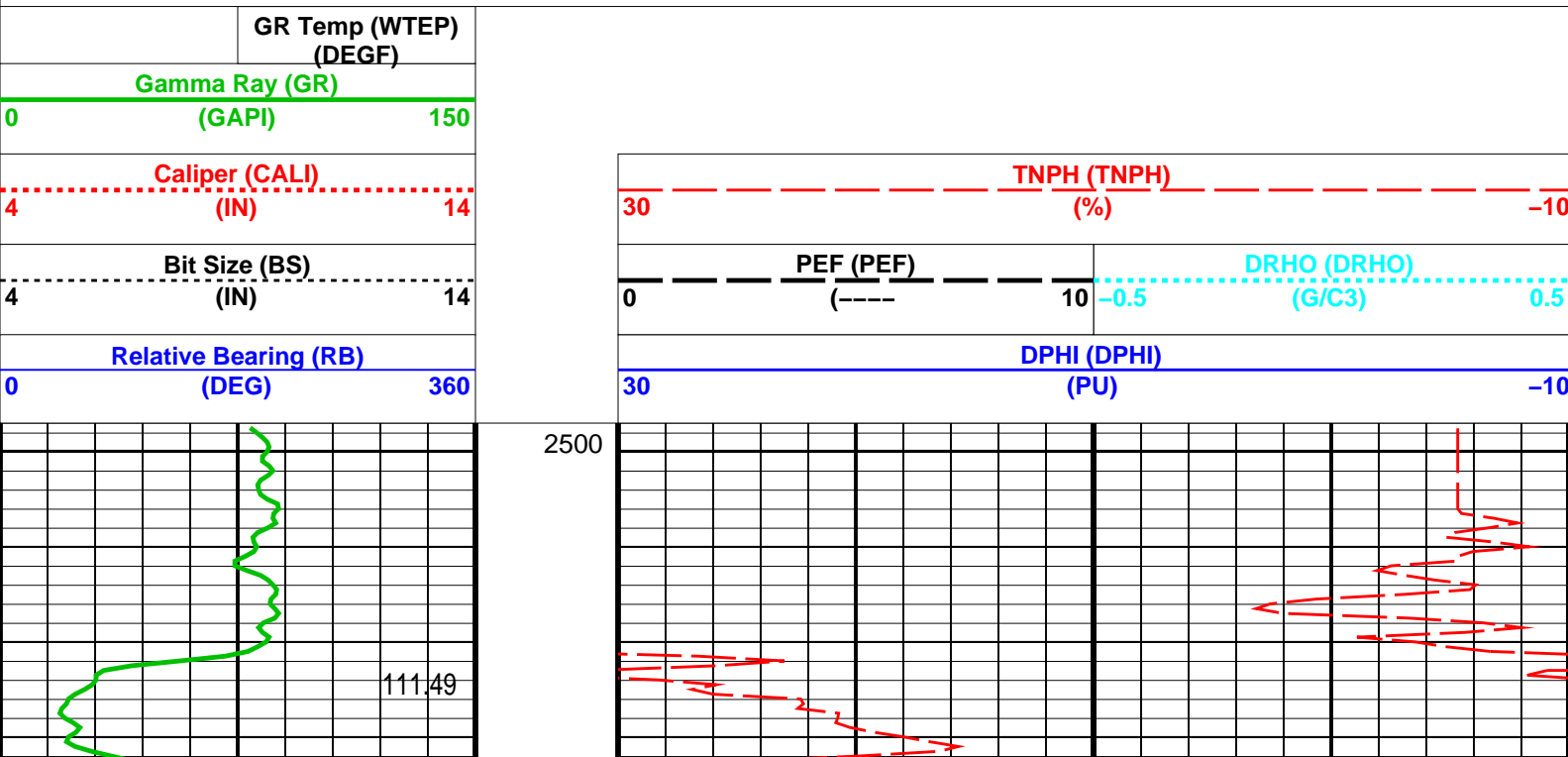
Hole Volume = 723.89 ft³
 Cement Volume = 334.14 ft³ (assuming 4.50 in casing O.D.)
 Computed from 8728.9 ft to 5200.4 ft

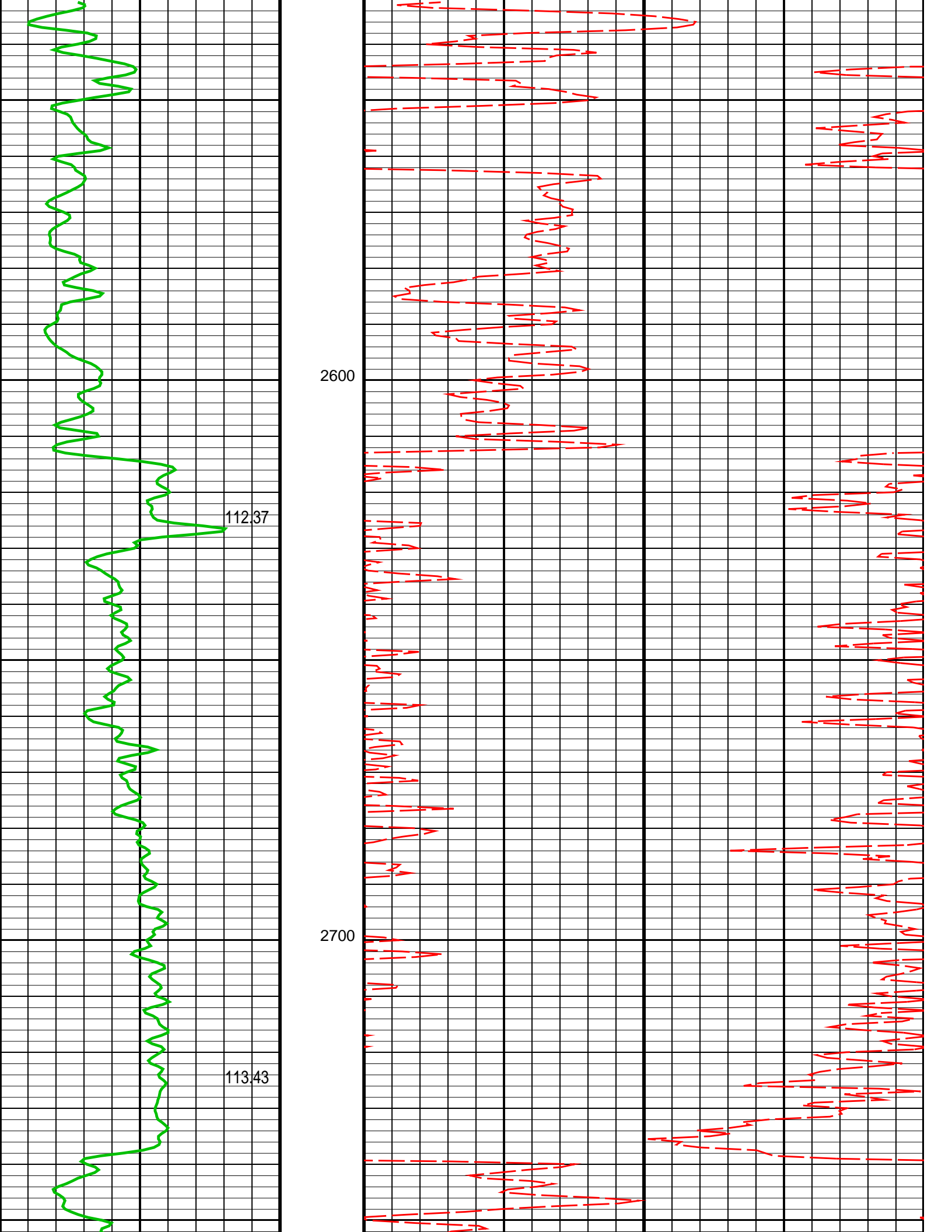
OP System Version: 19C2-270

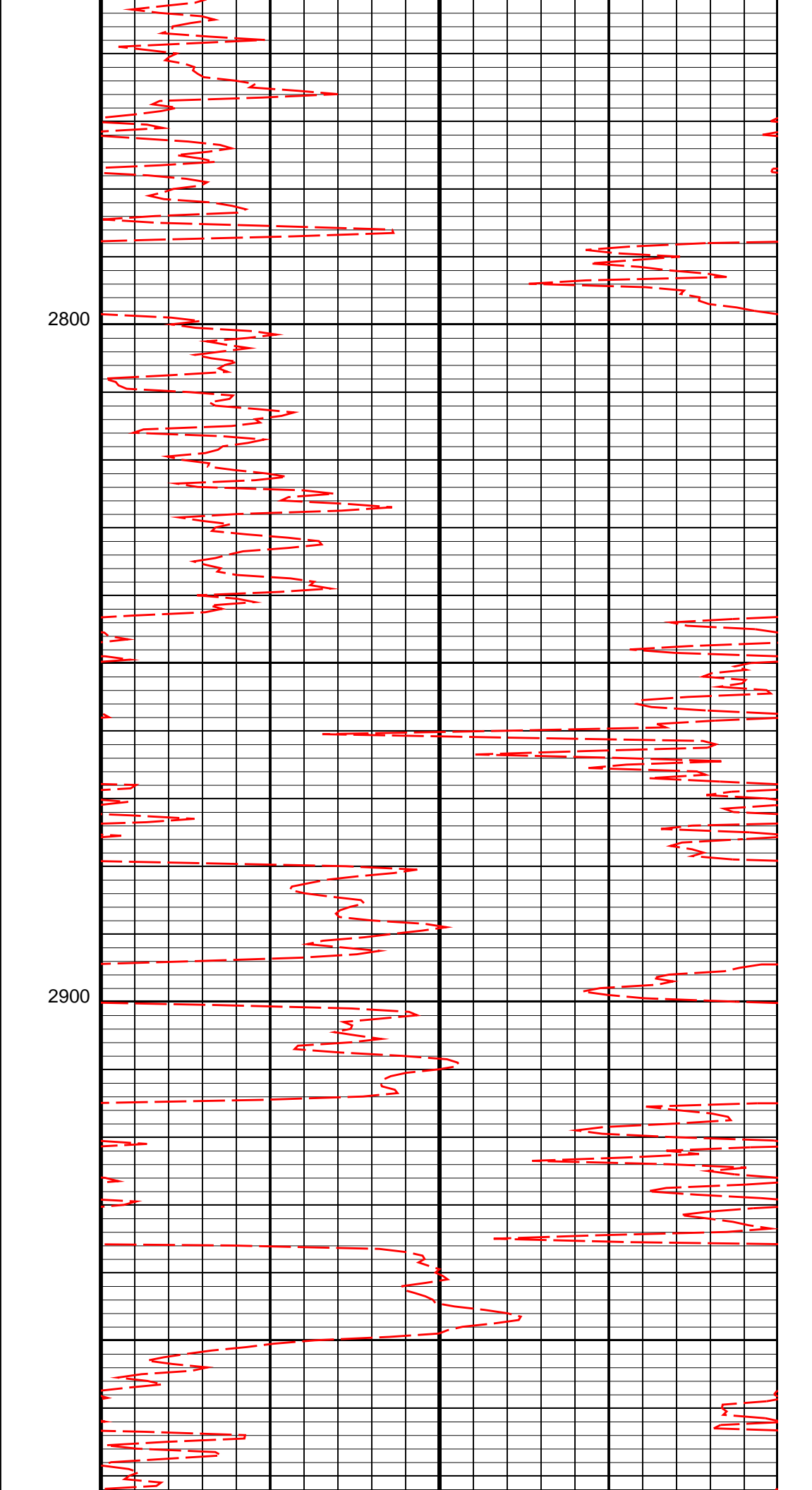
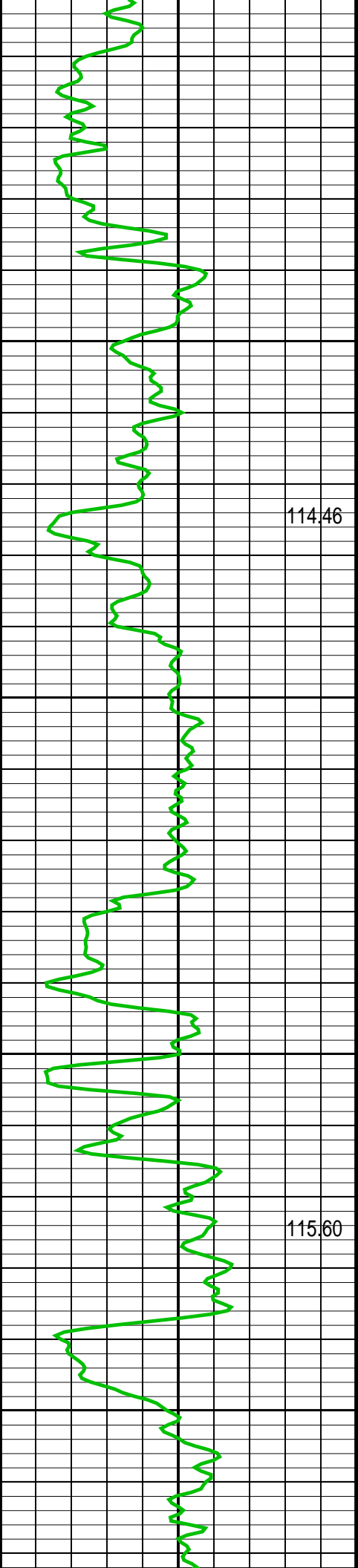
TBT SRPC-5298-ThruBit_b

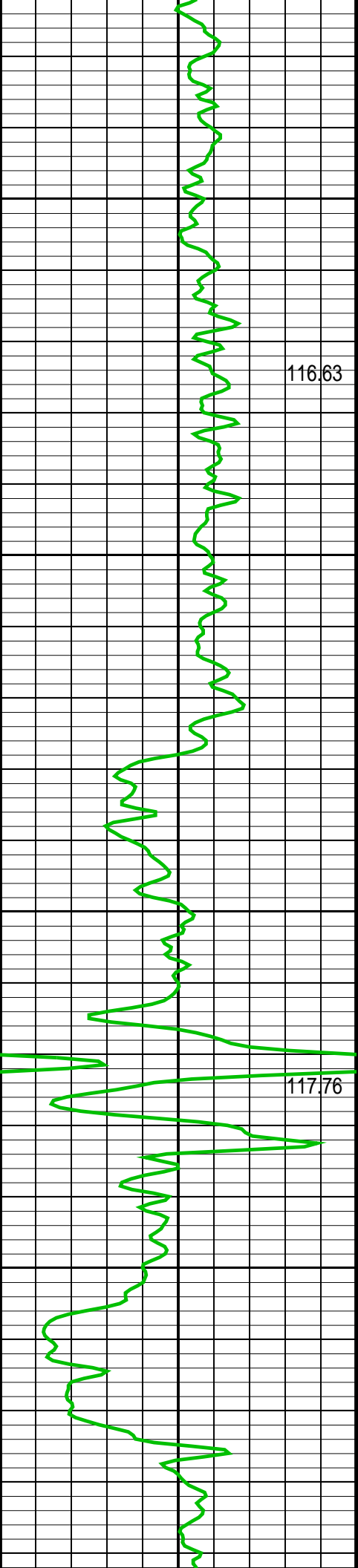
PIP SUMMARY

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







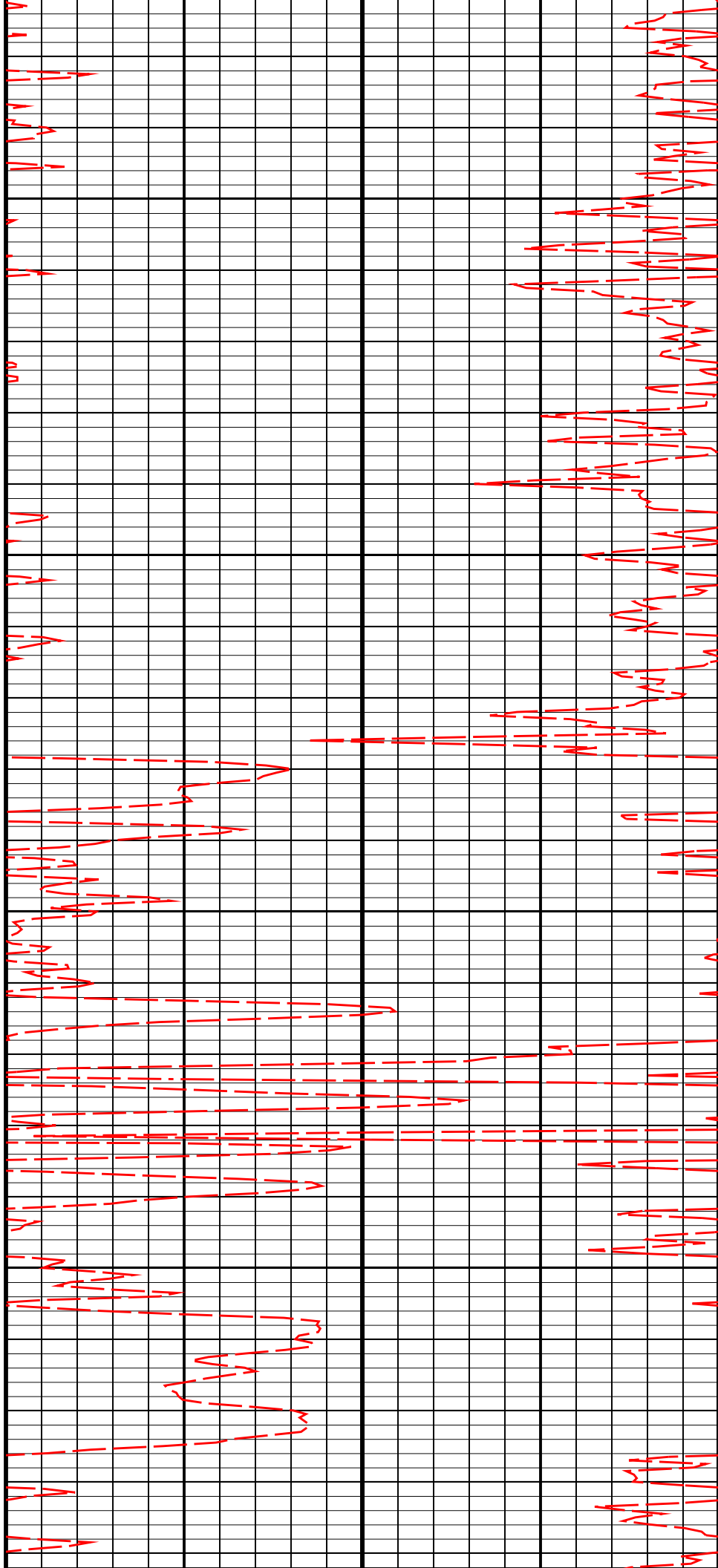


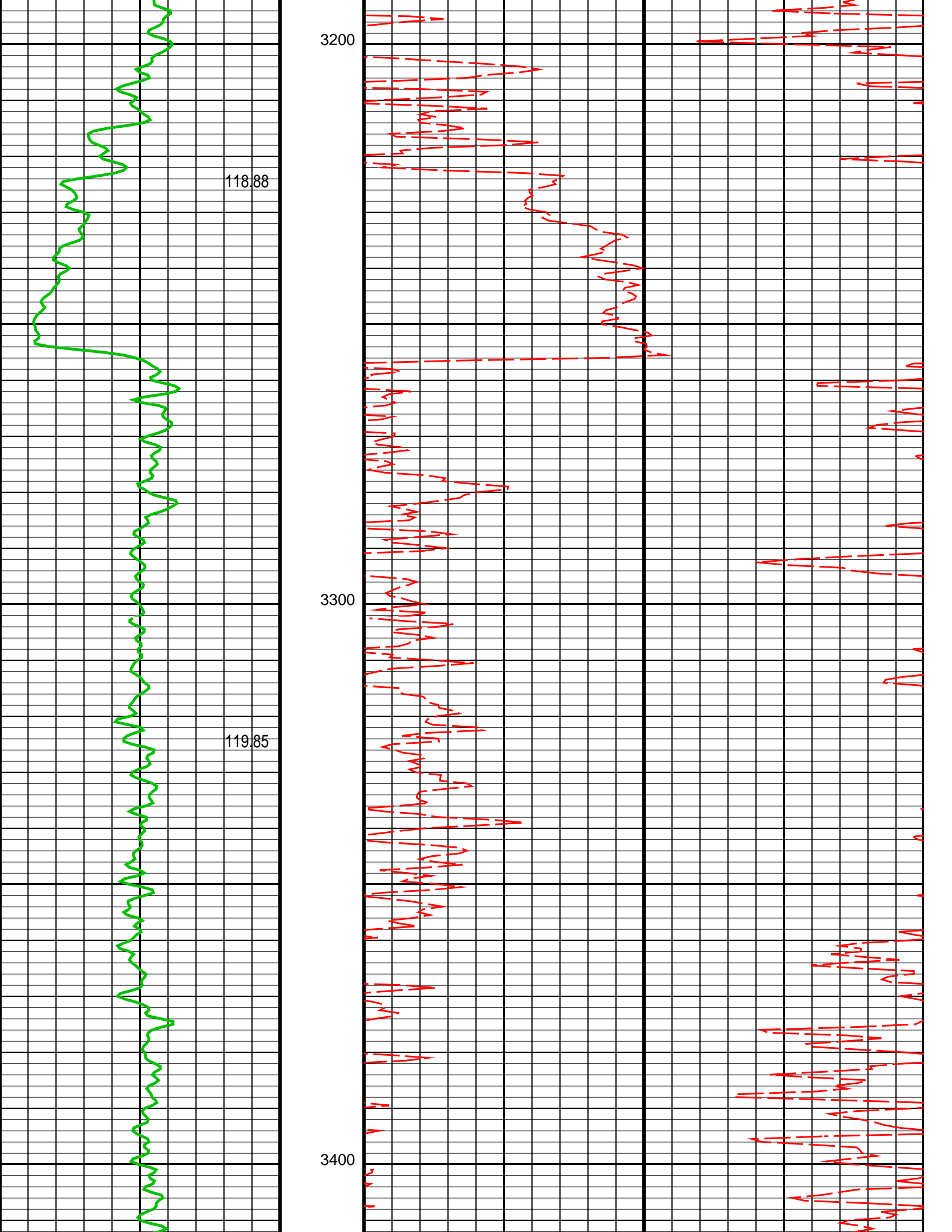
116.63

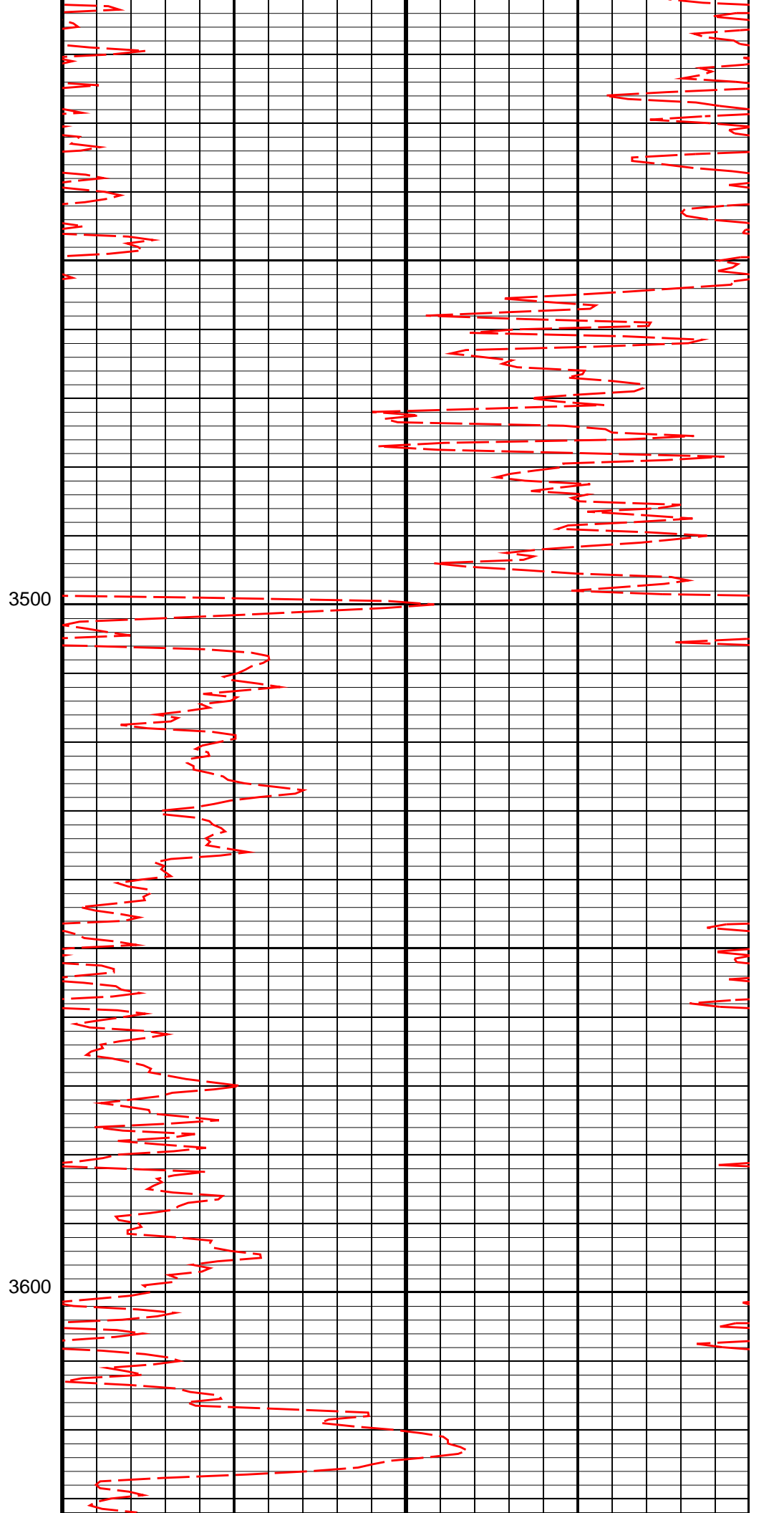
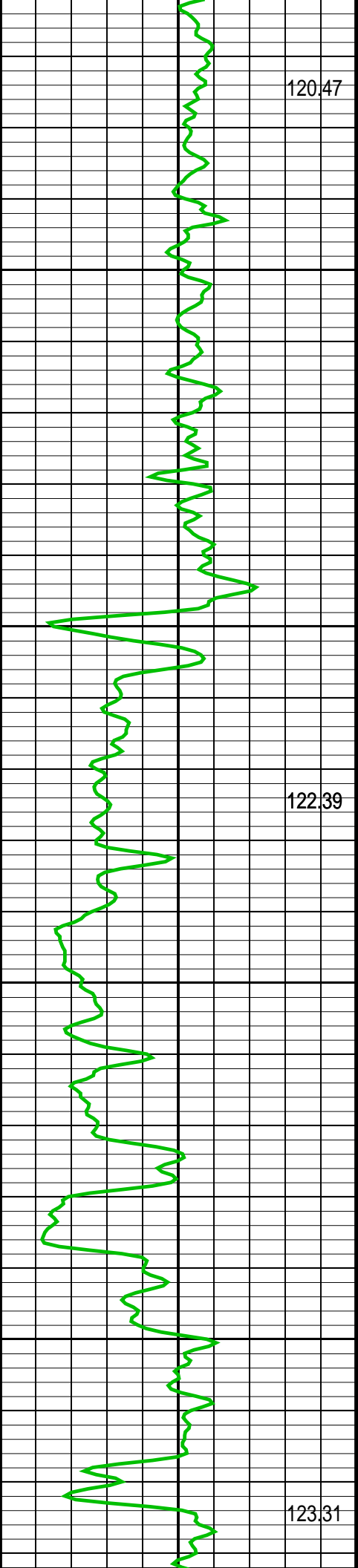
117.76

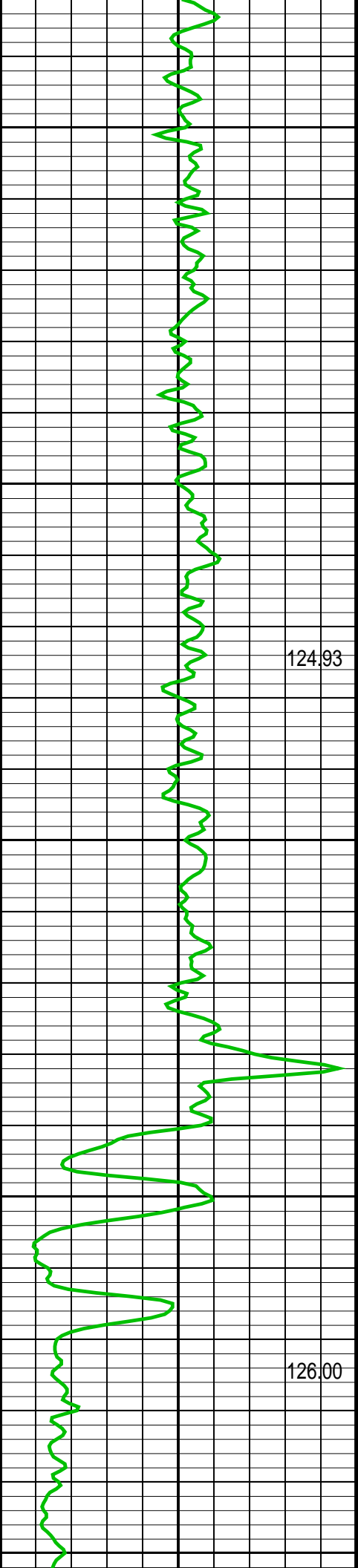
3000

3100







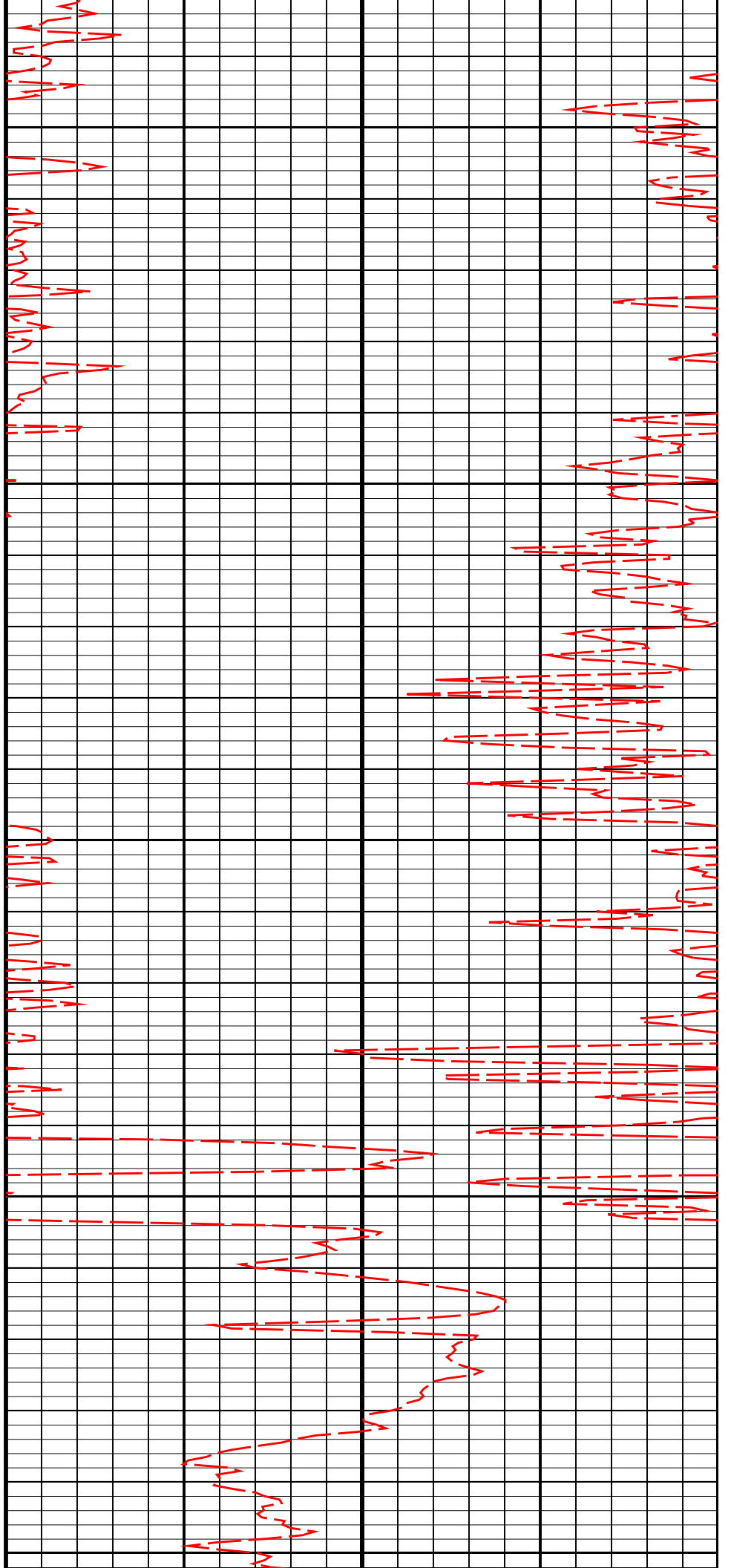


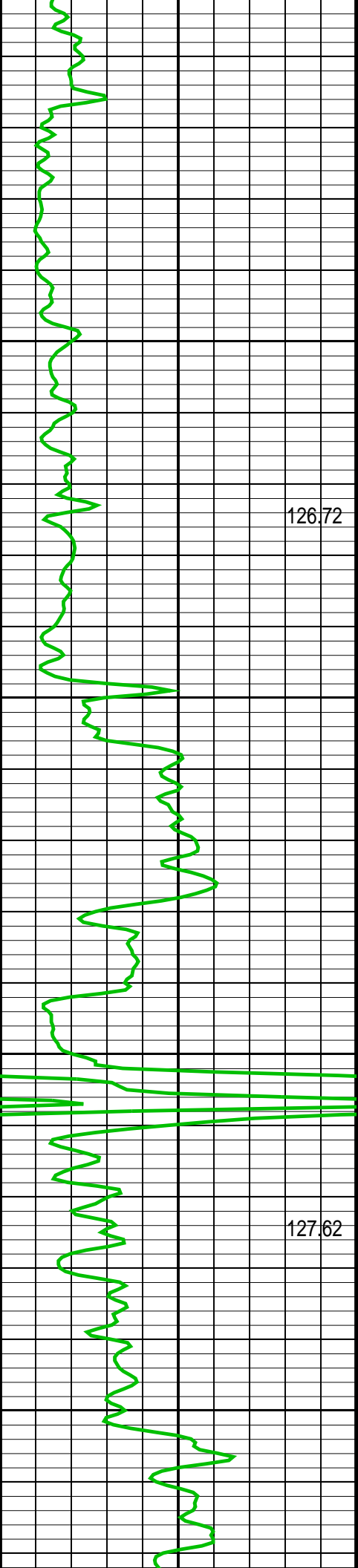
124.93

126.00

3700

3800



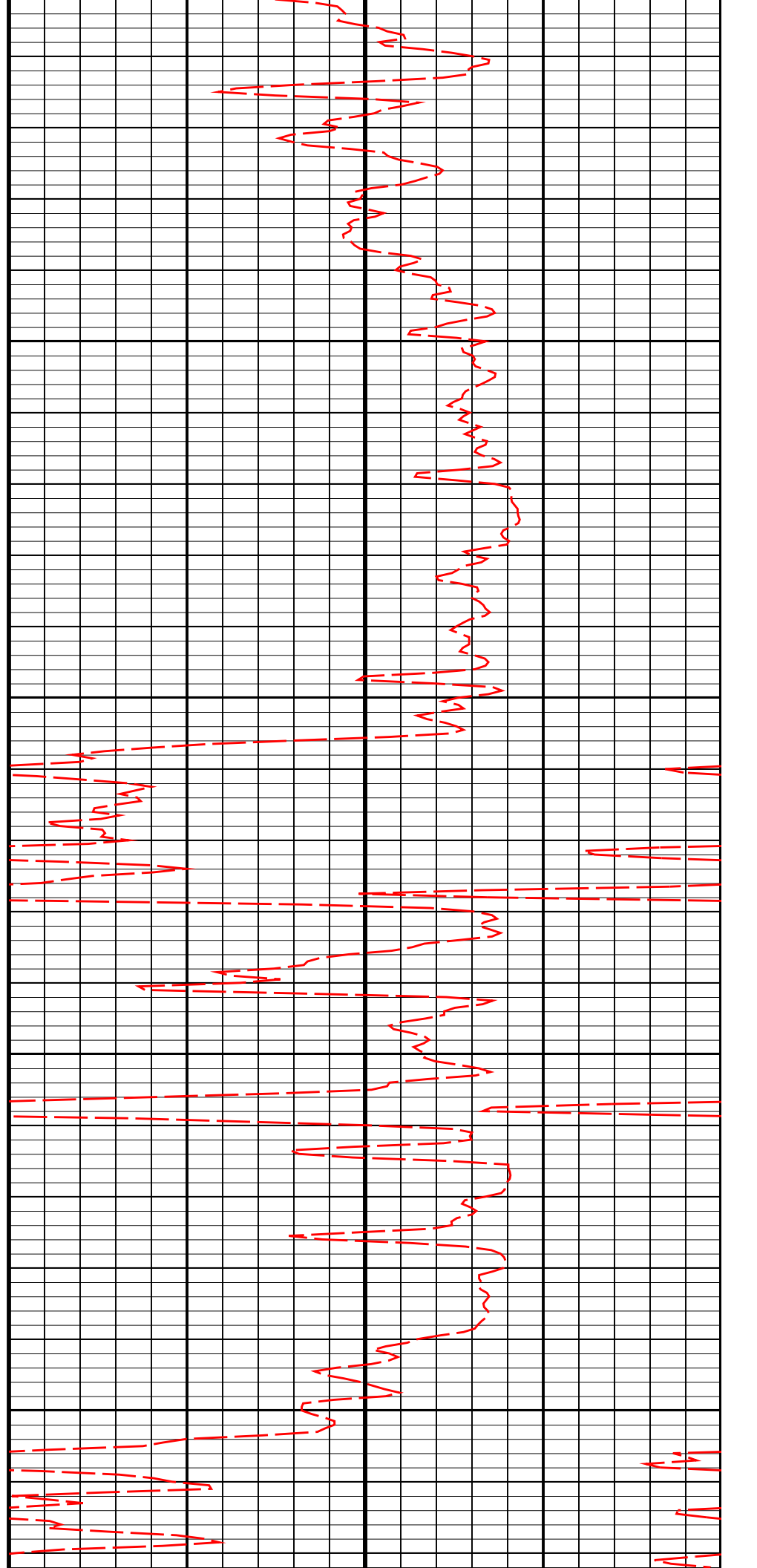


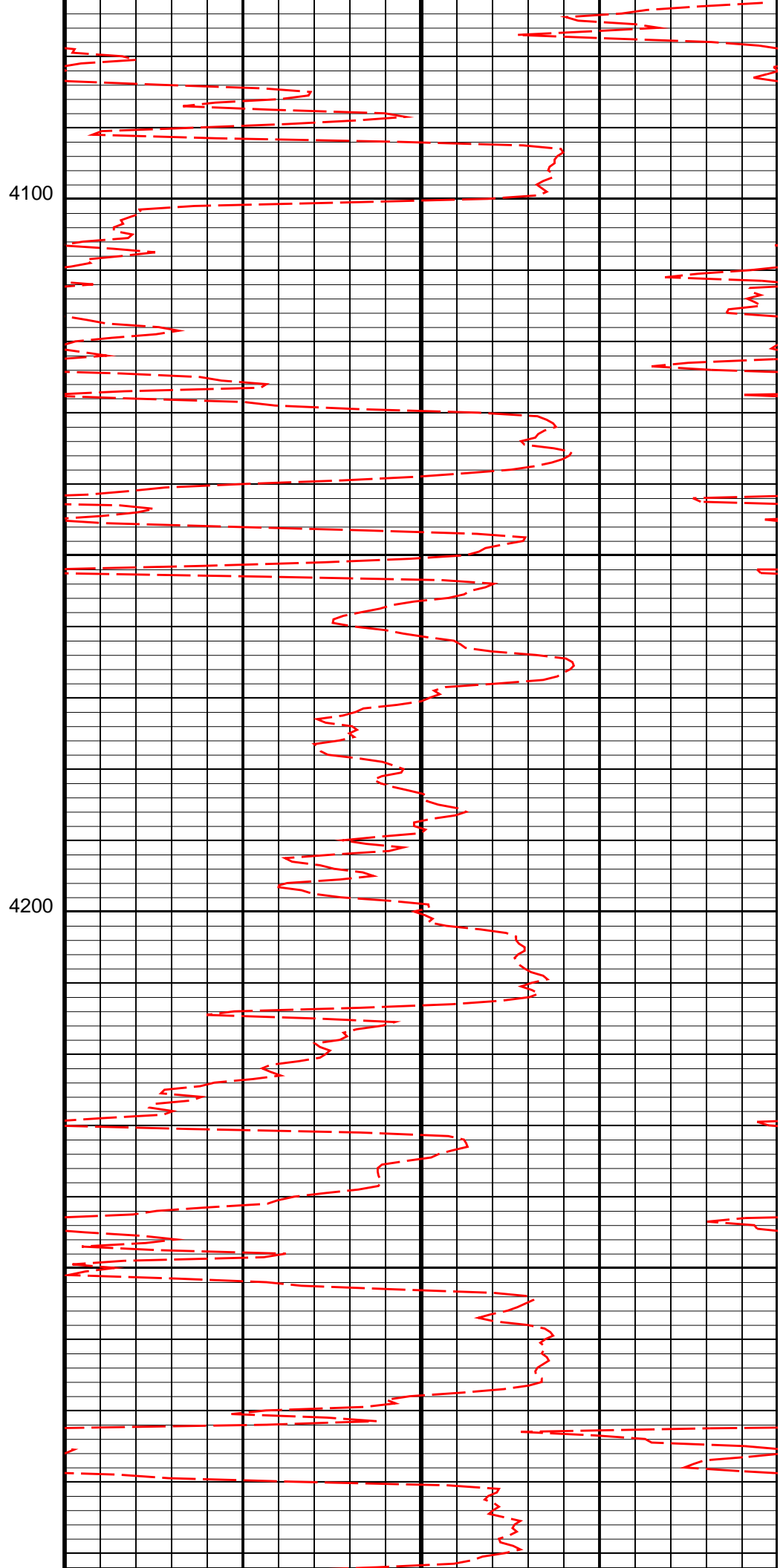
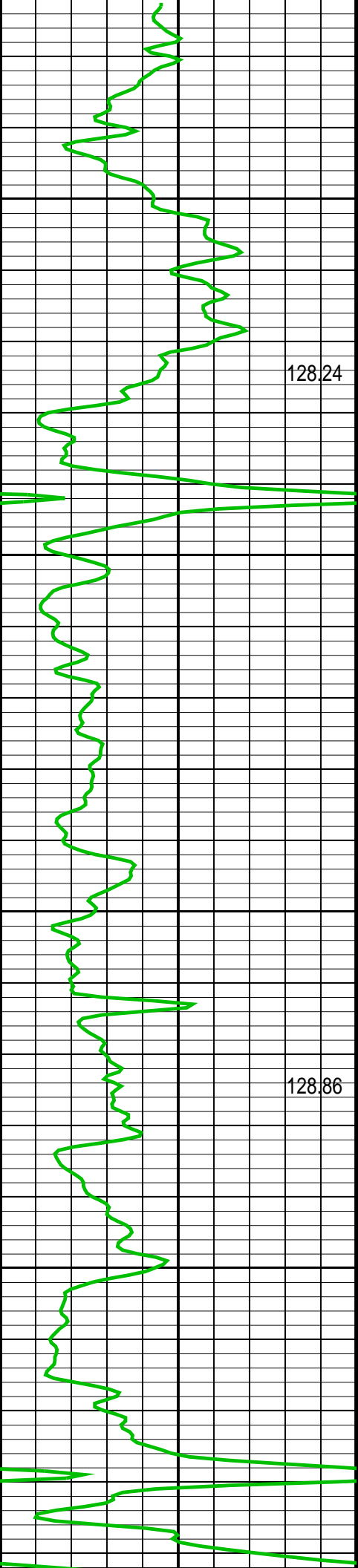
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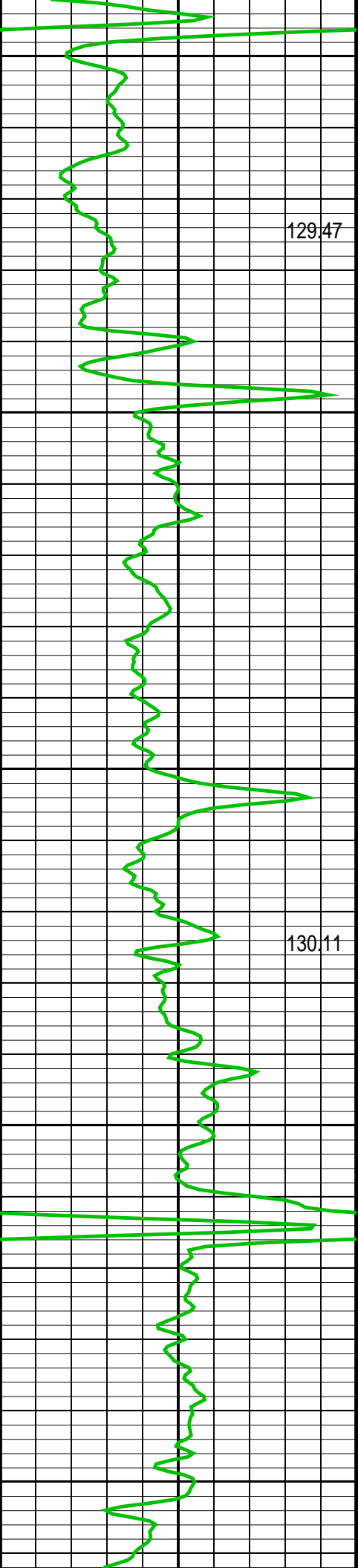
126.72

4000

127.62







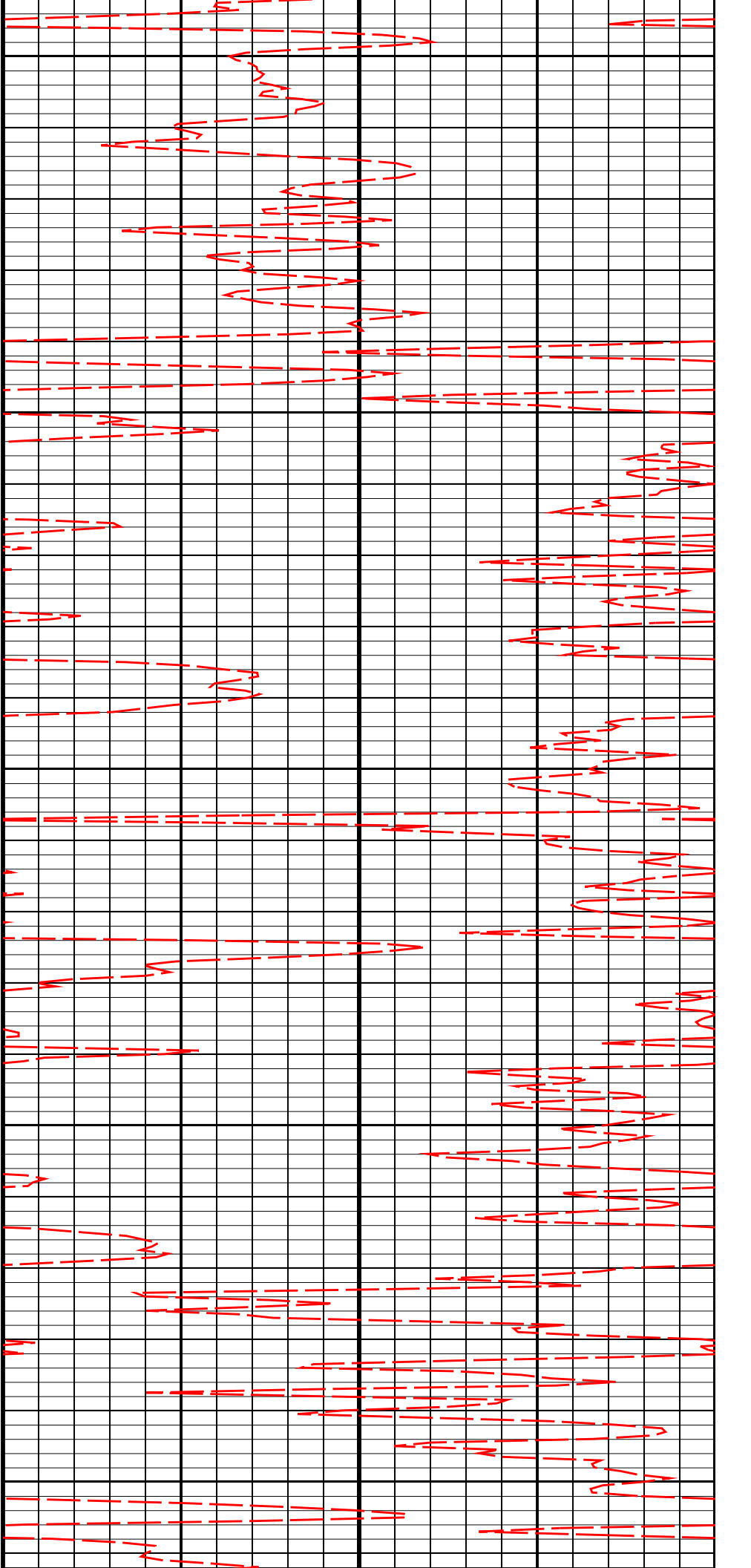
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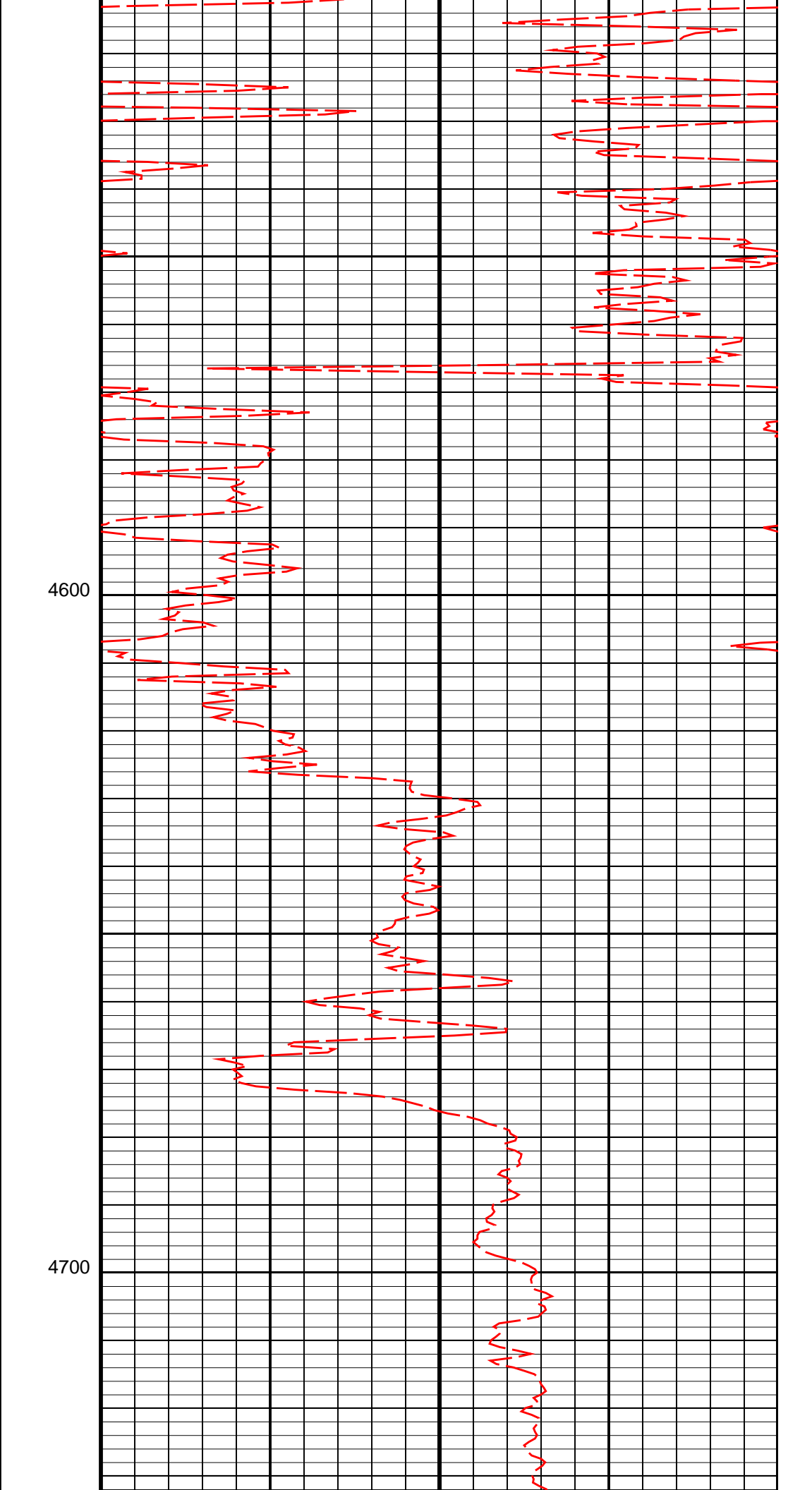
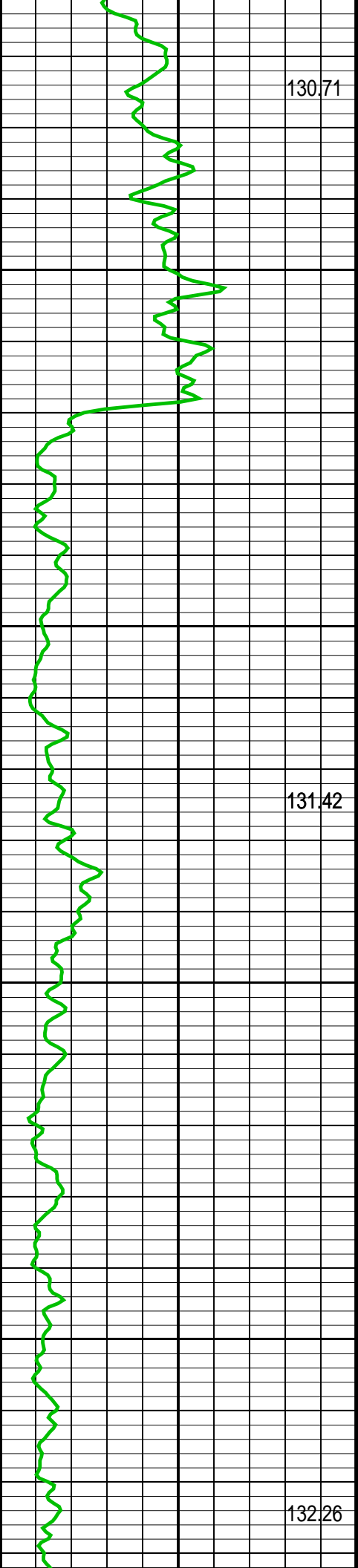
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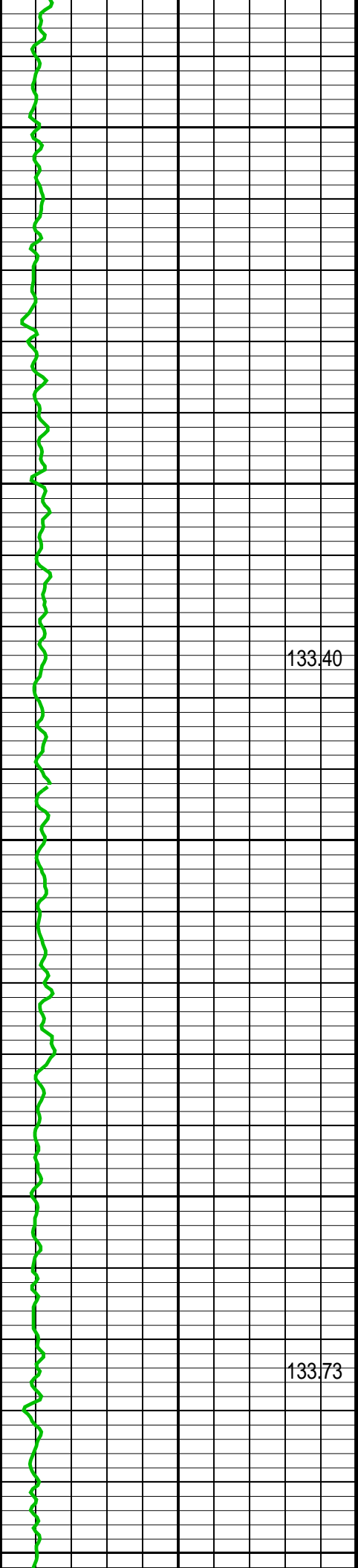
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4400

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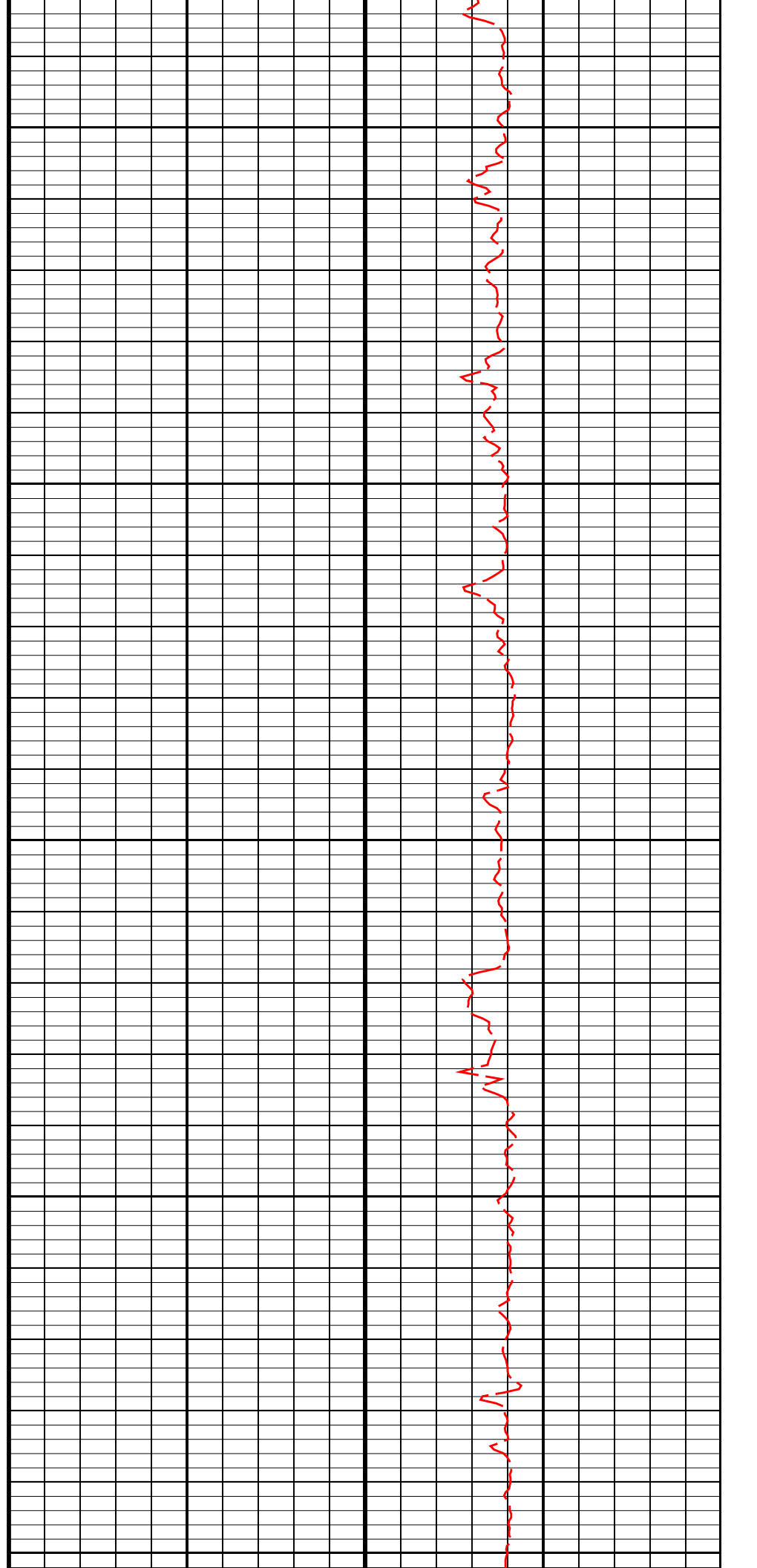


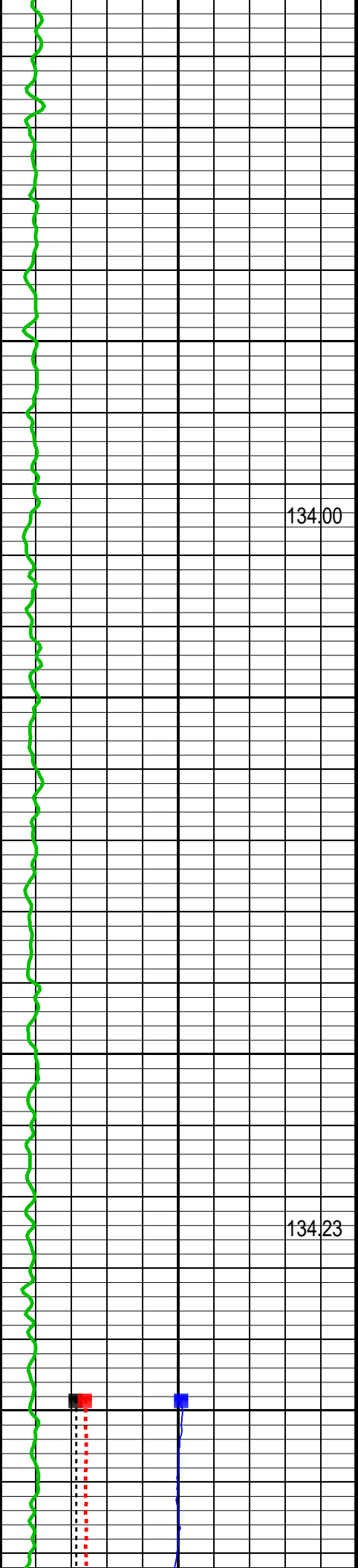




4800

4900



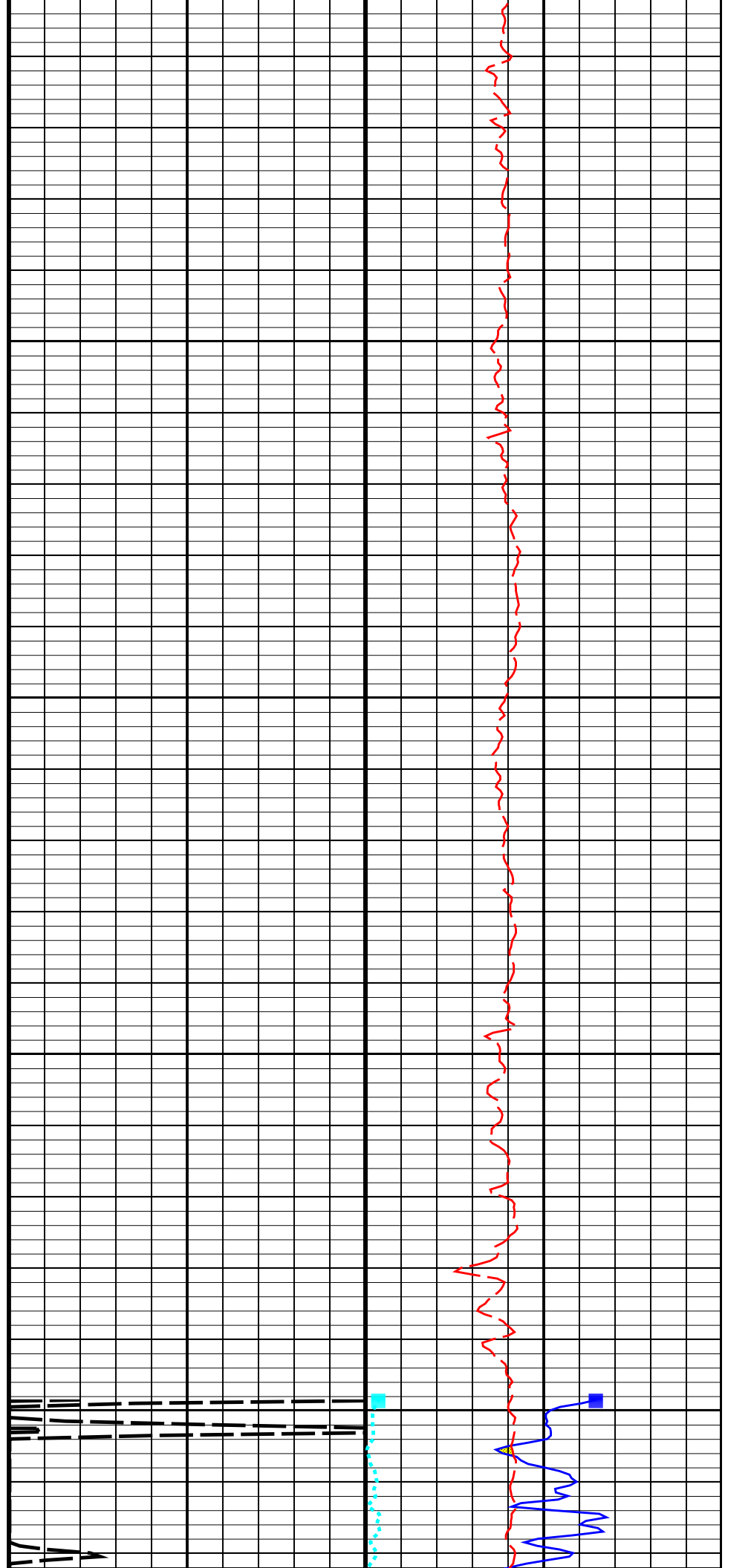


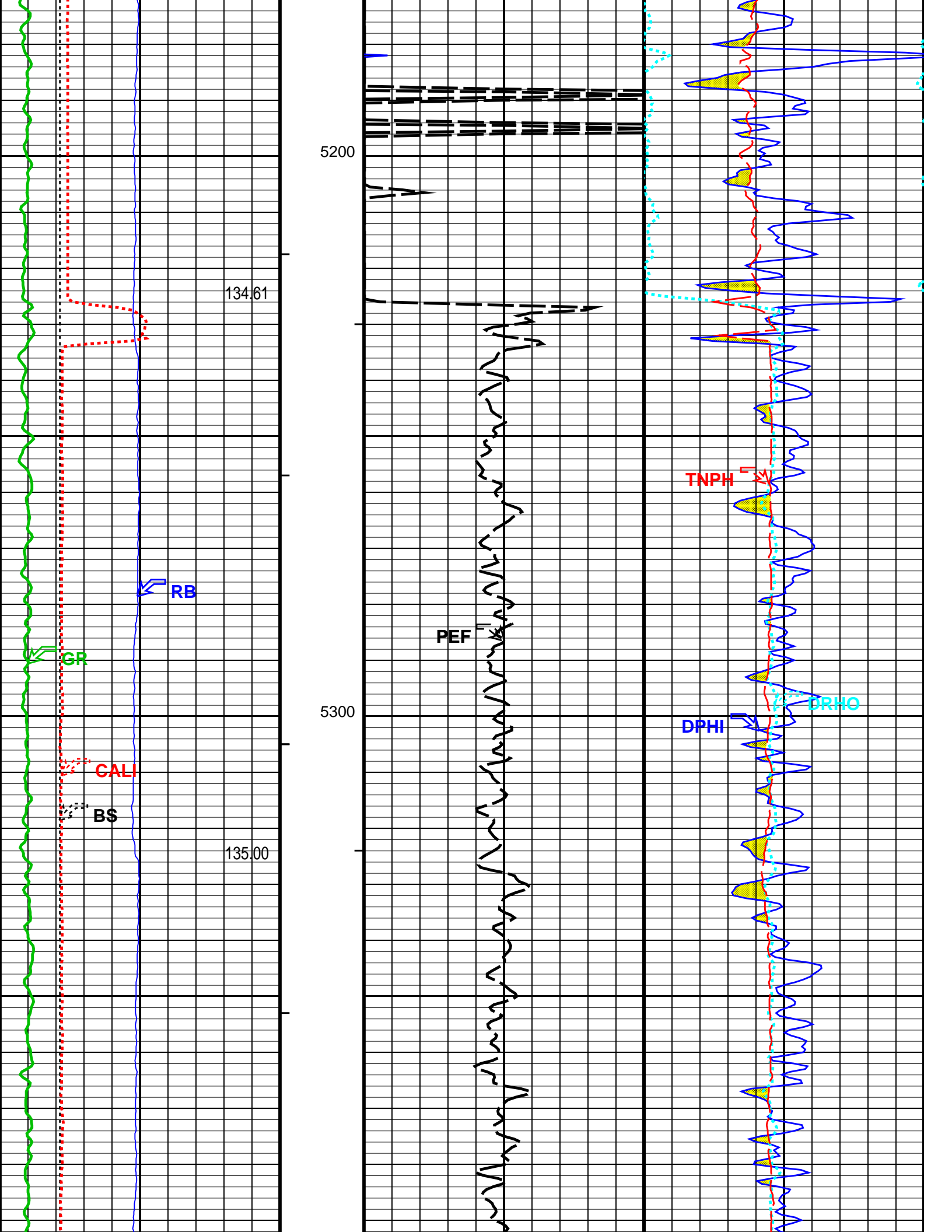
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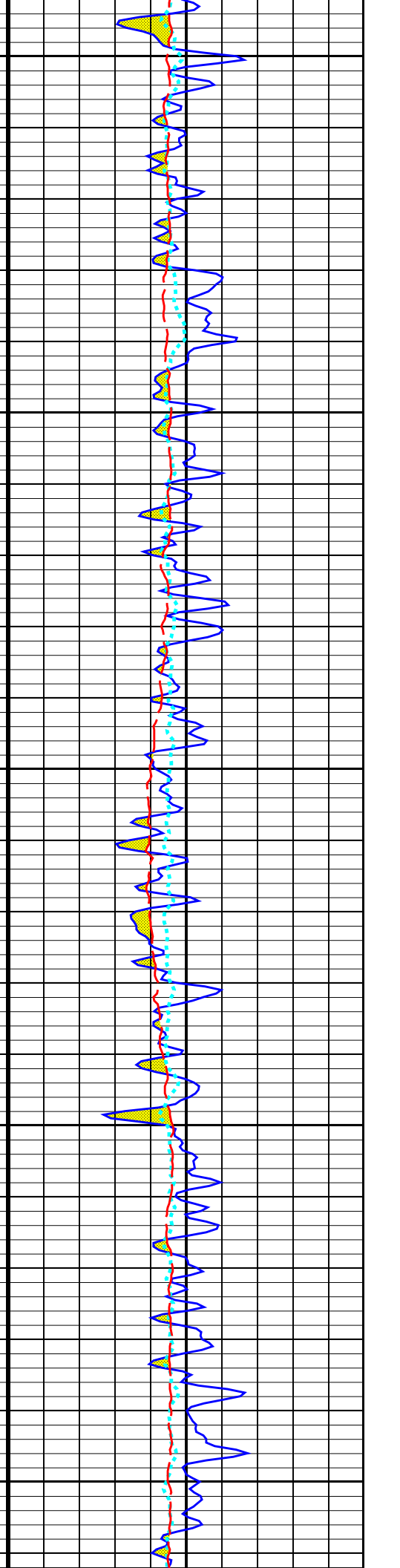
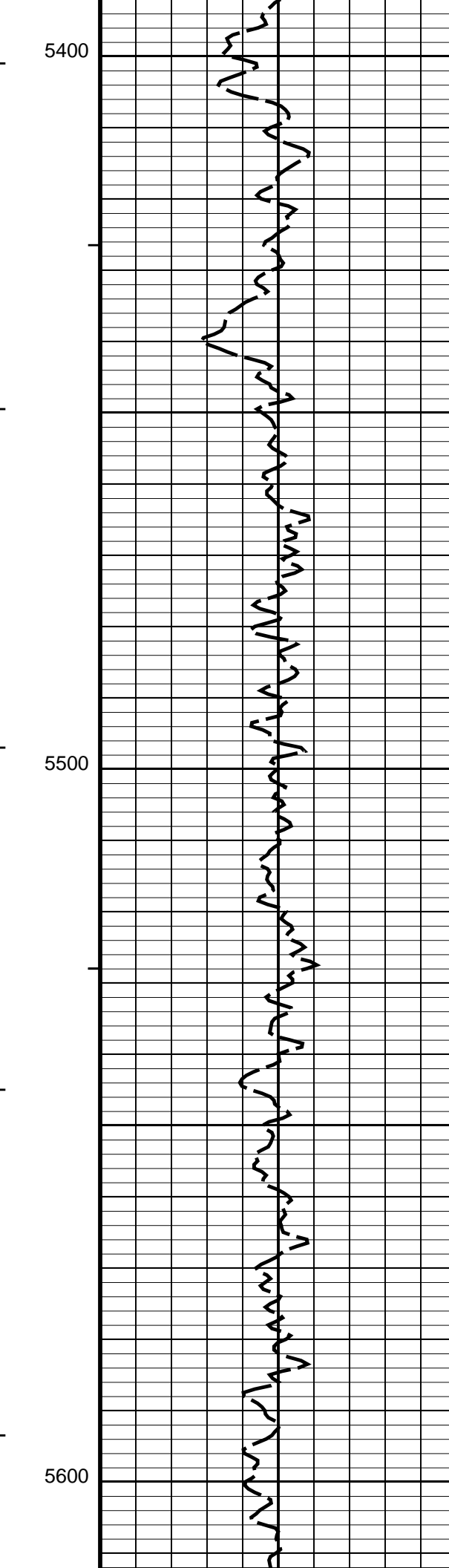
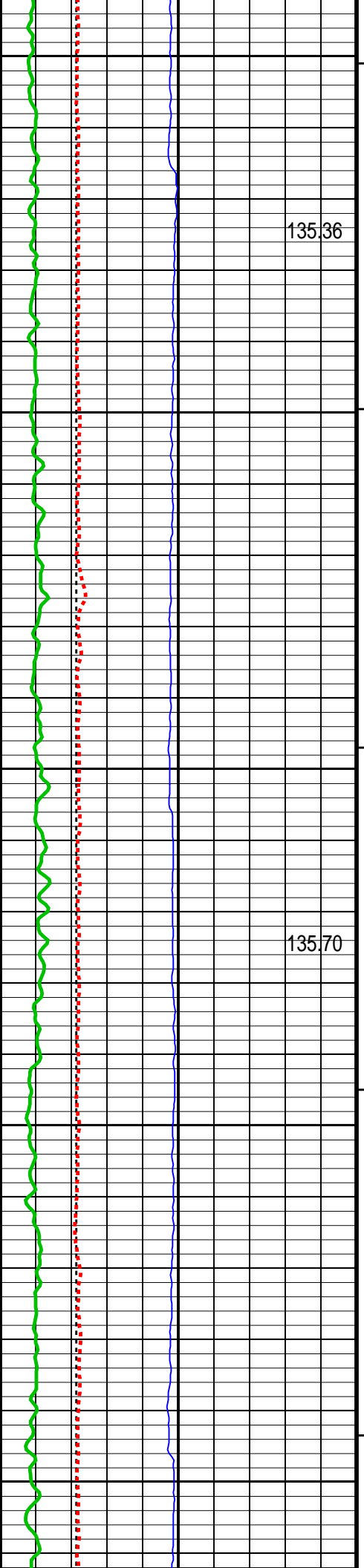
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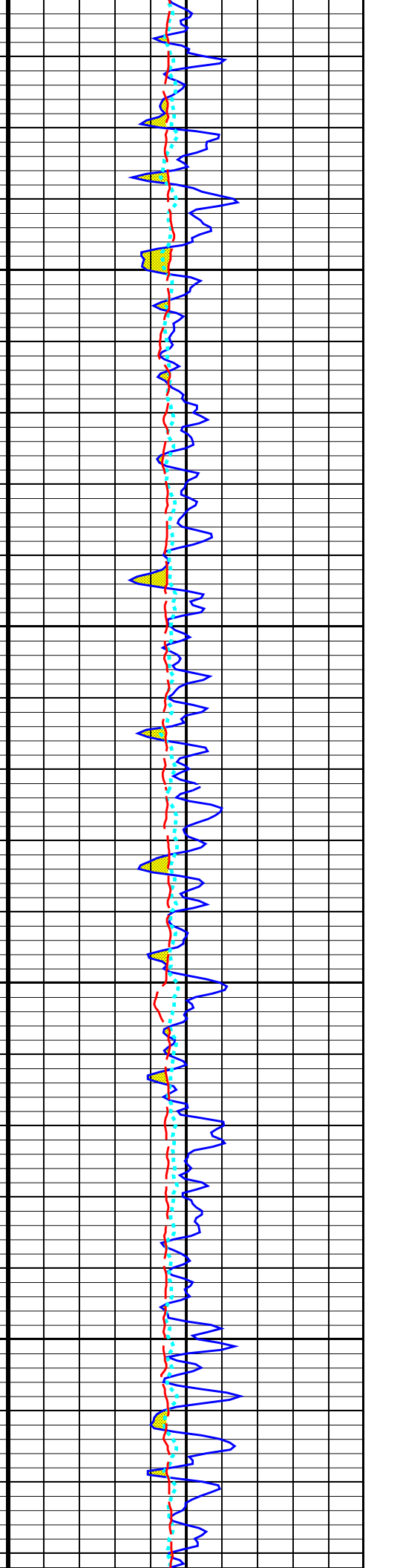
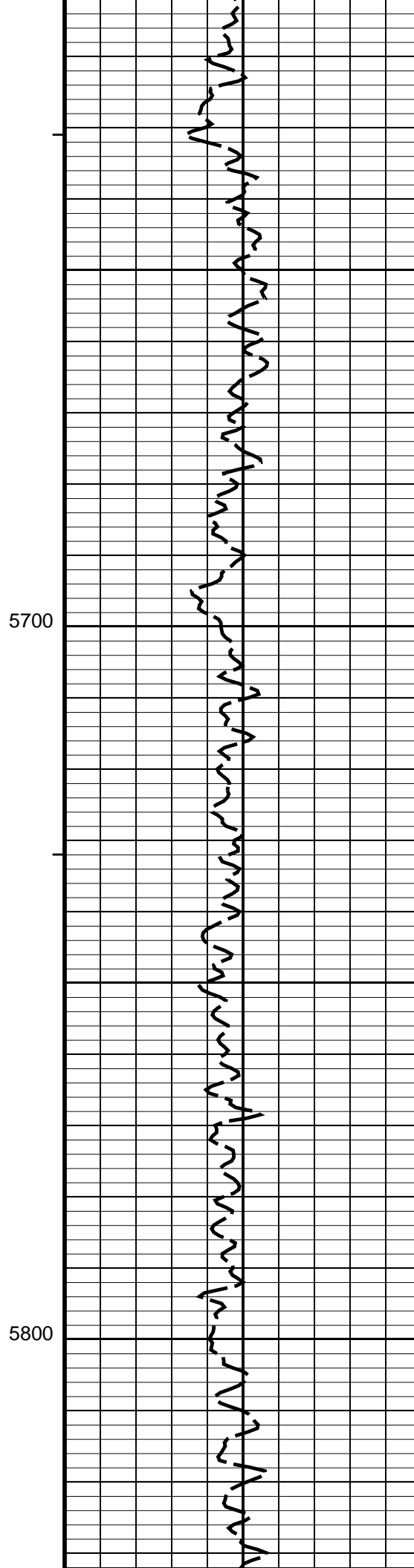
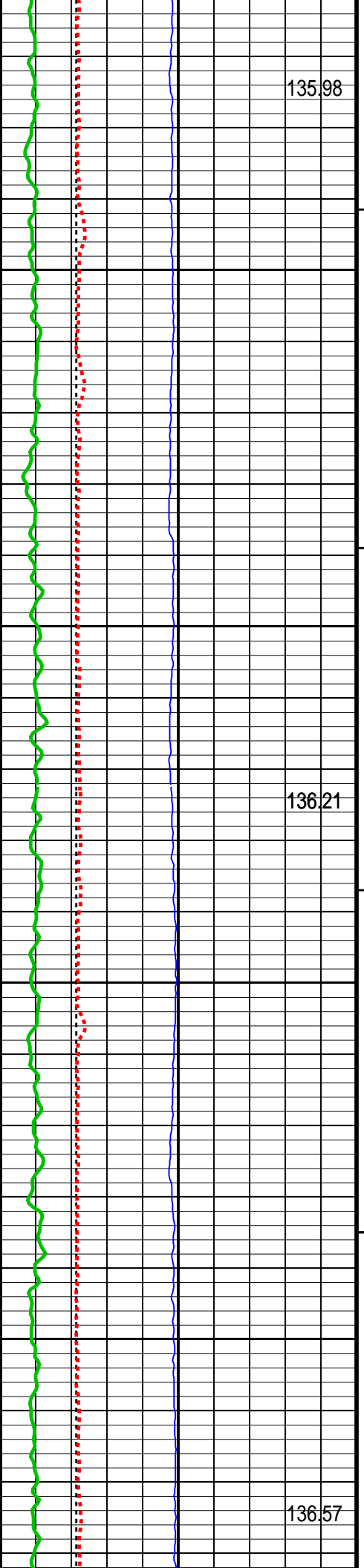
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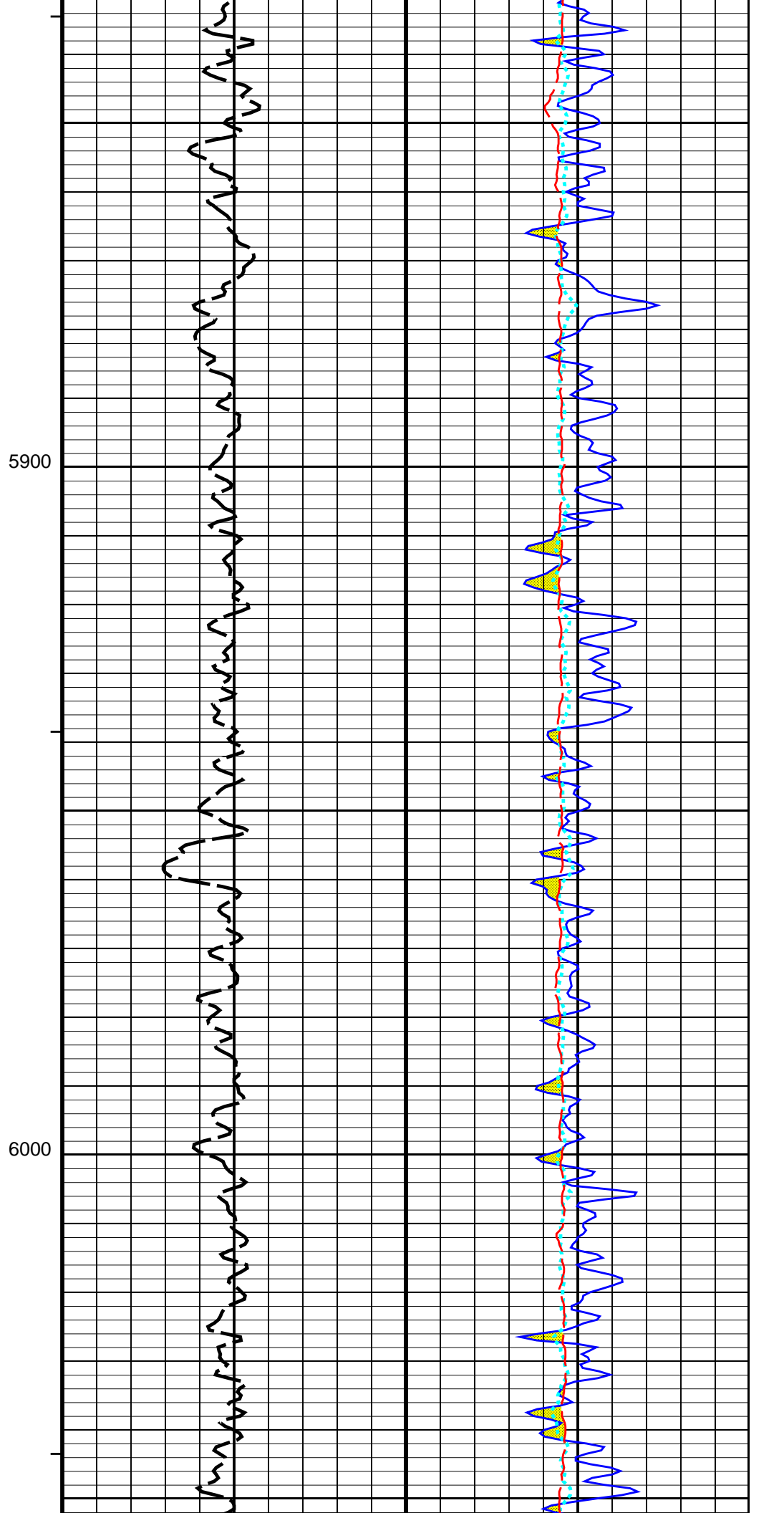
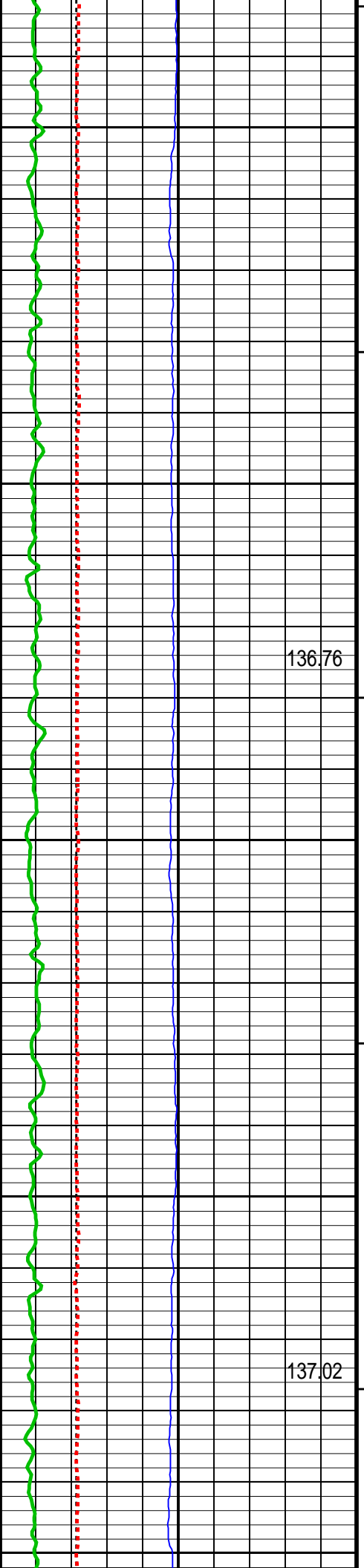
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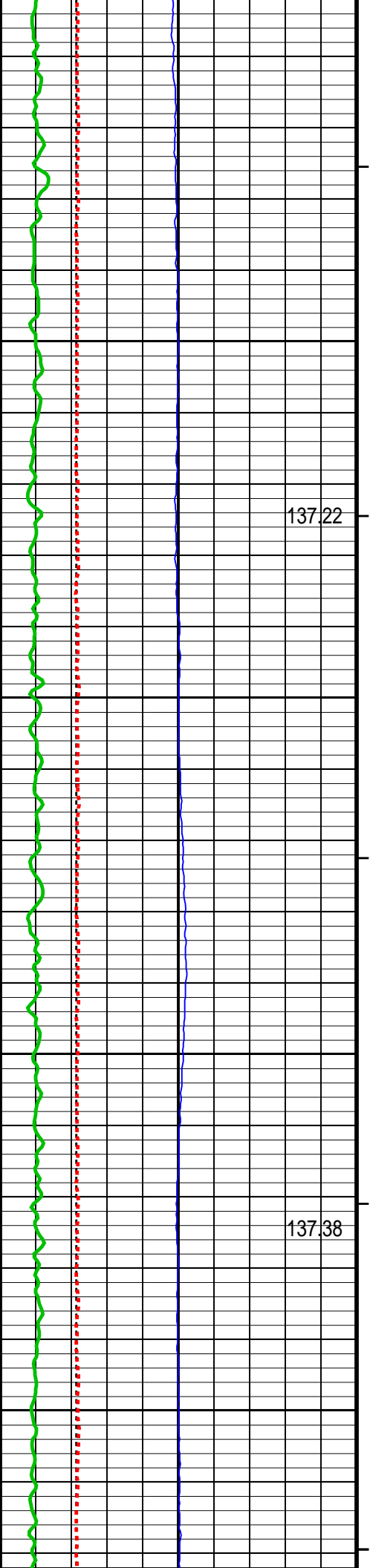






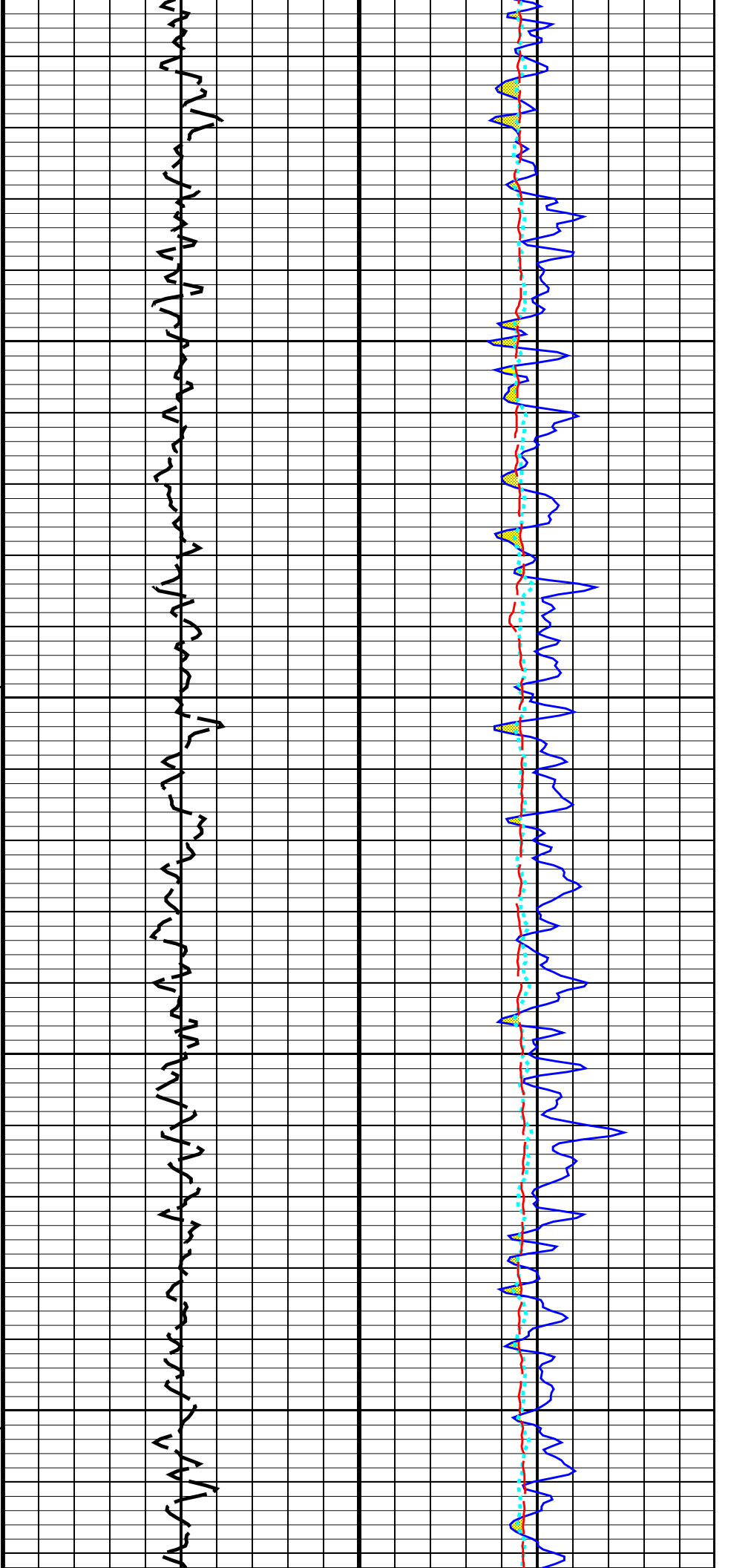


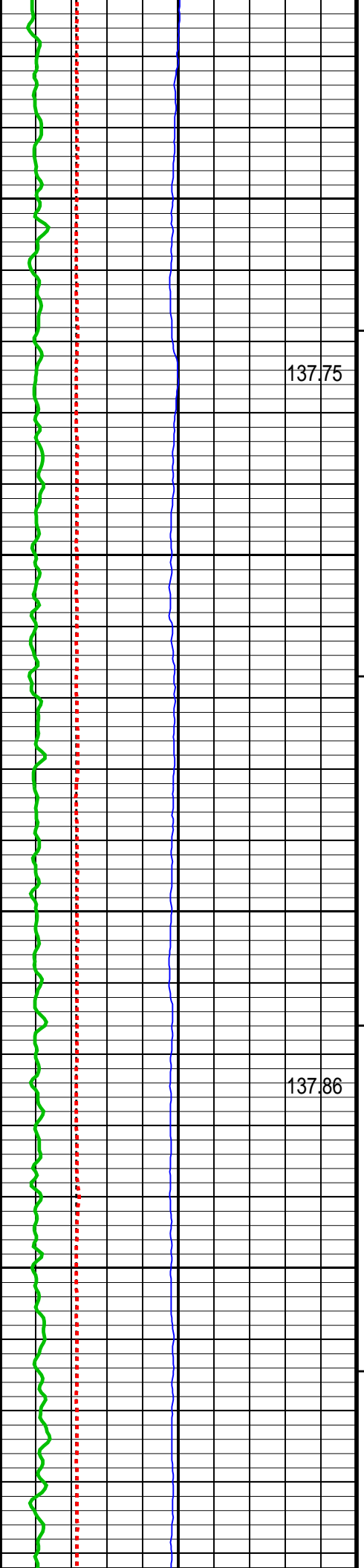




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6200



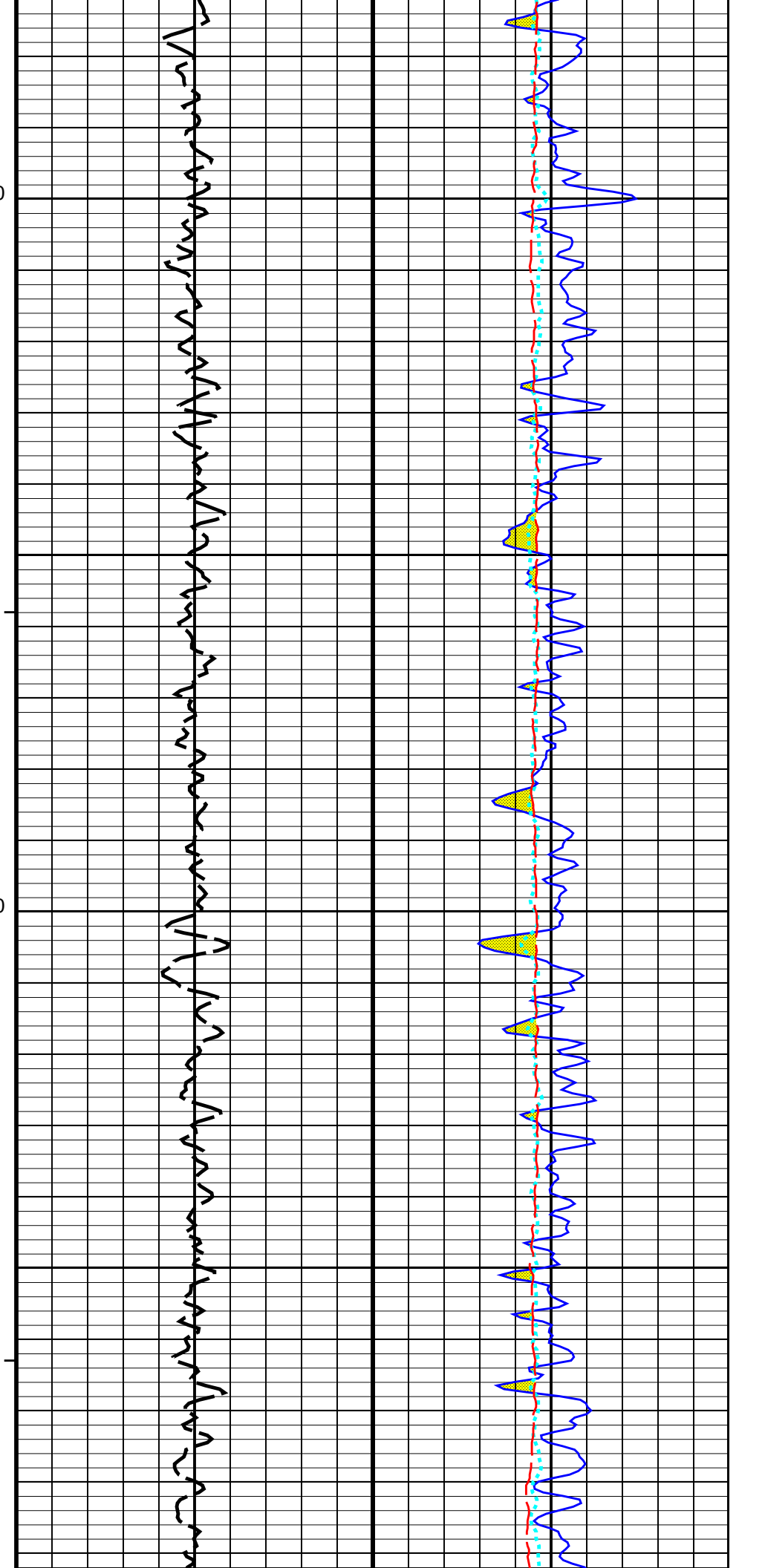


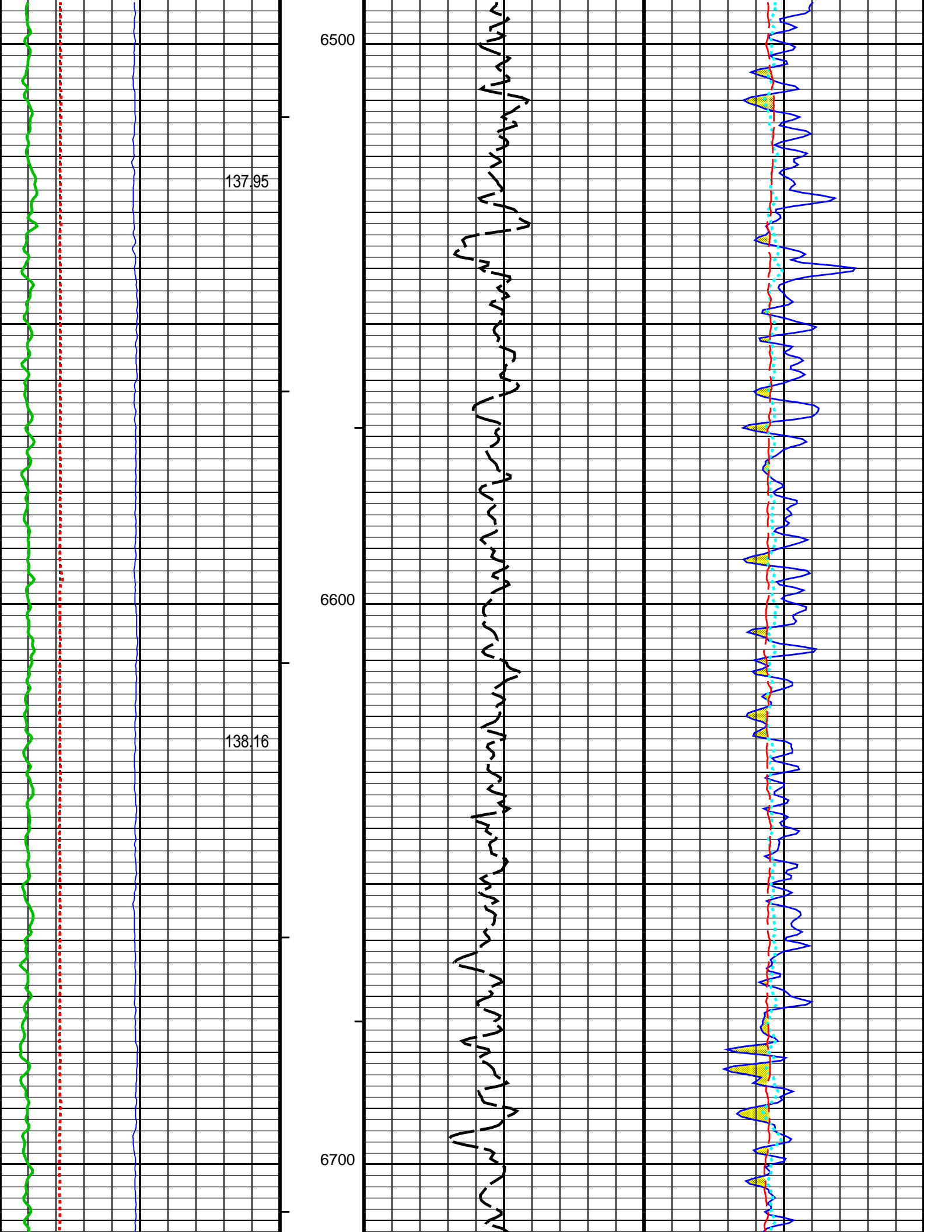
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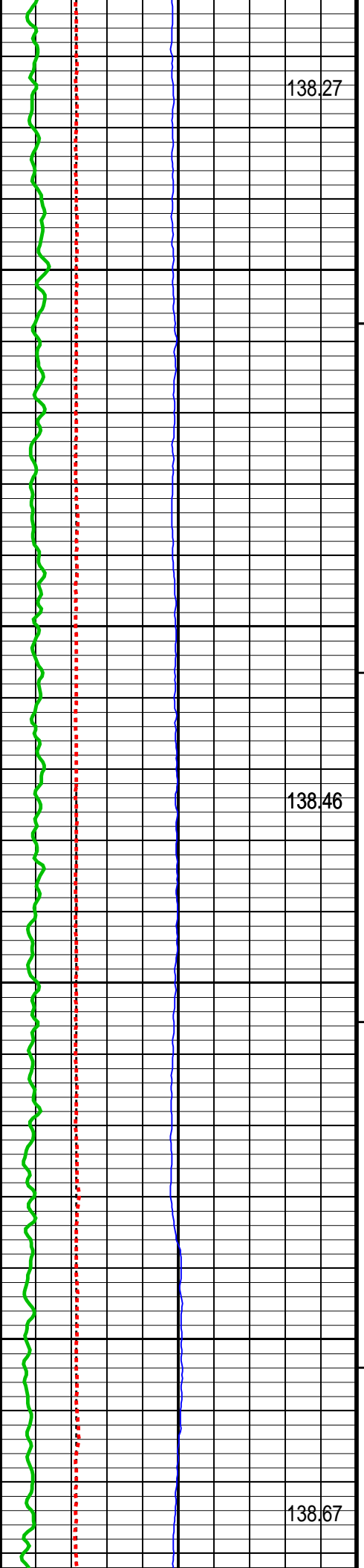
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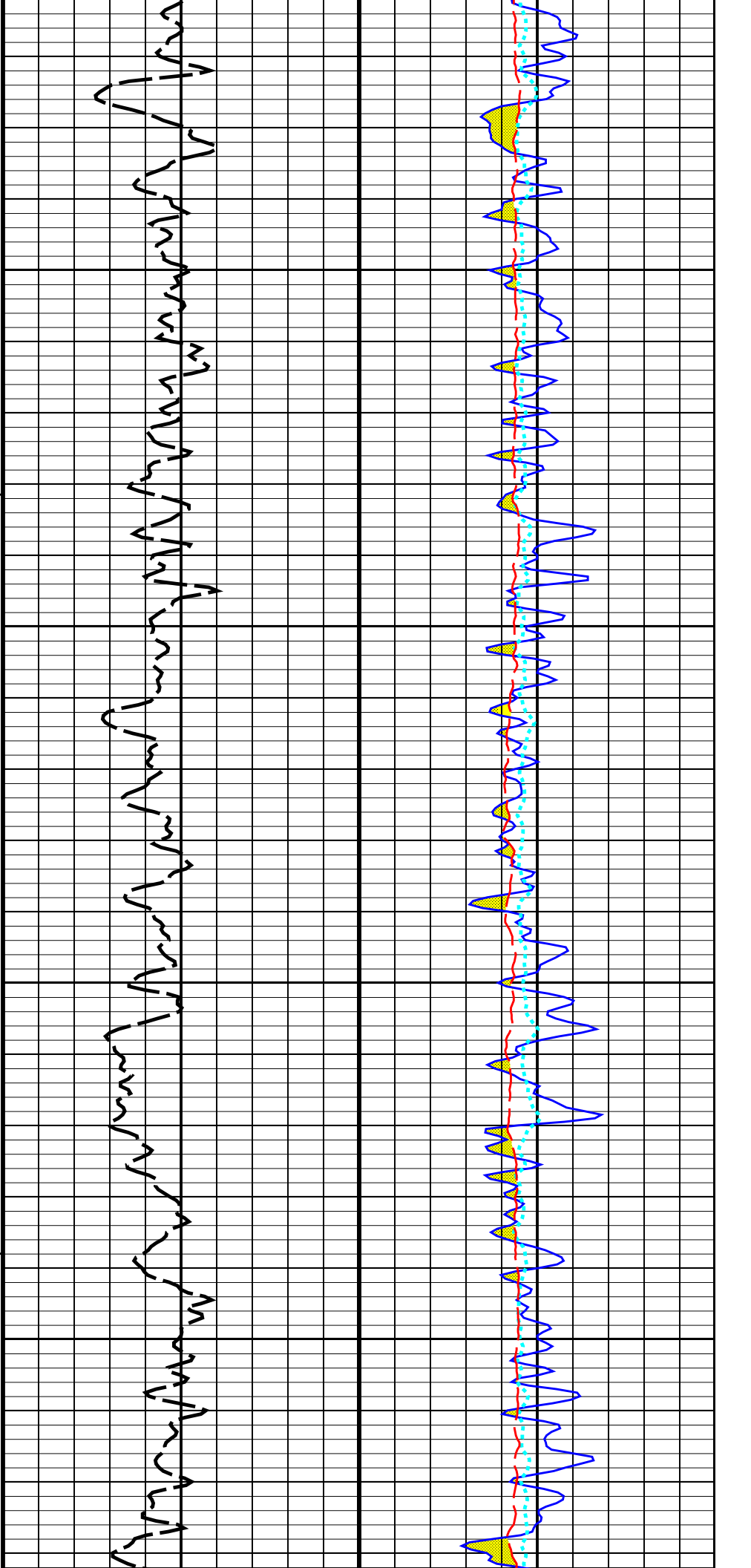
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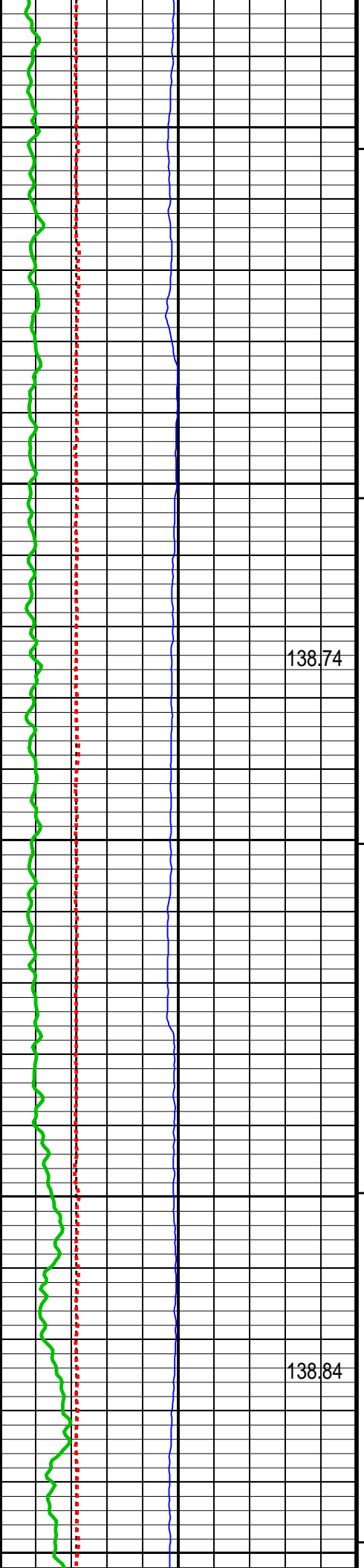
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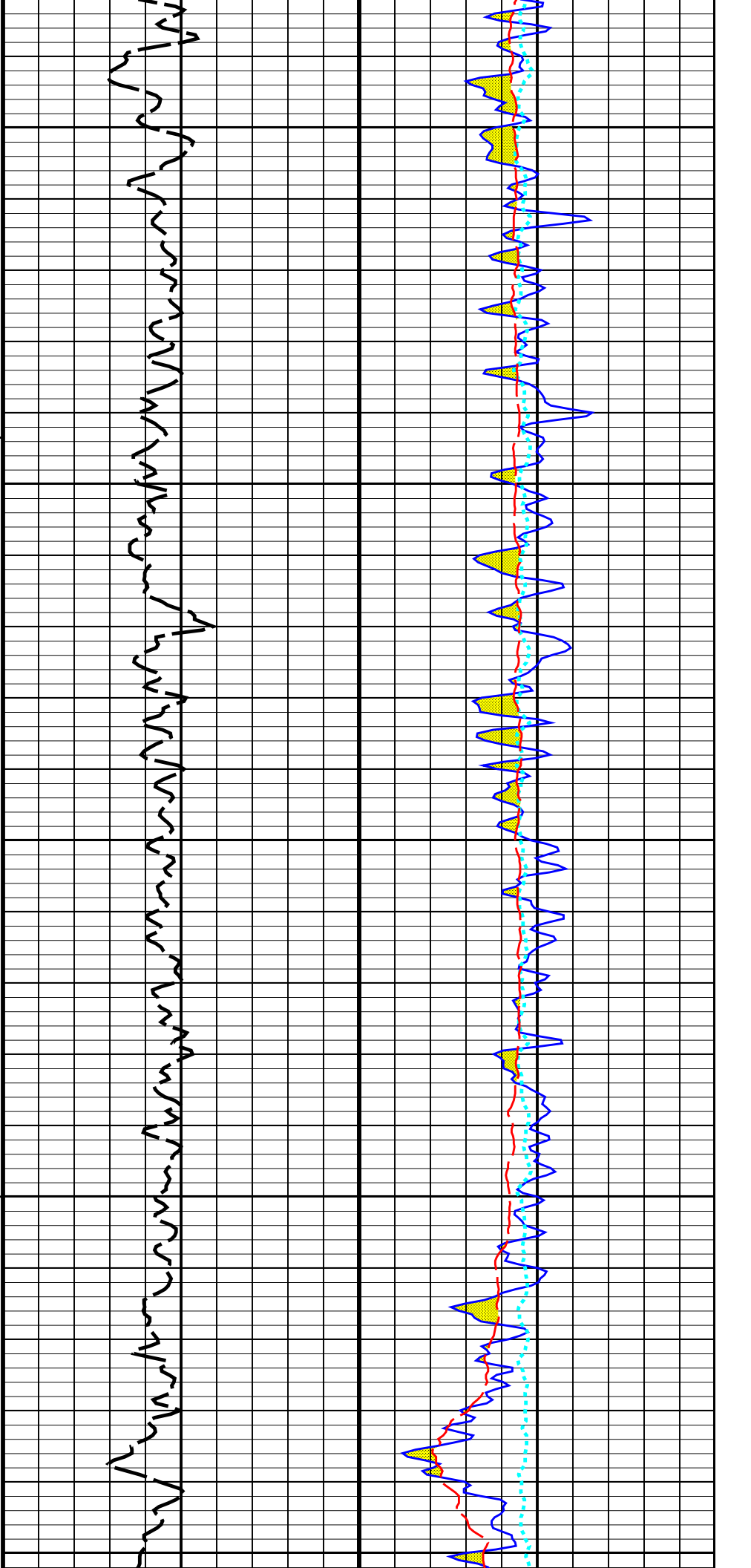


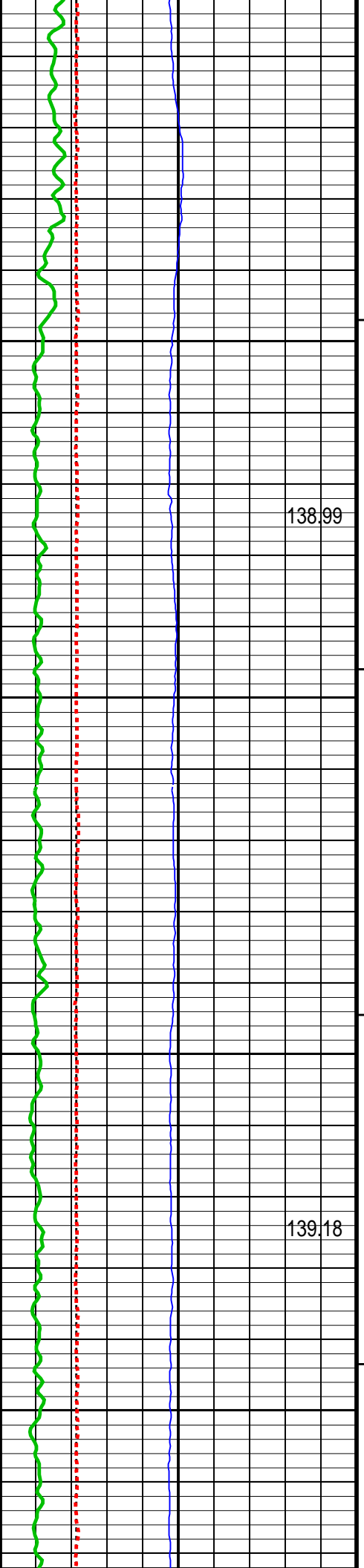
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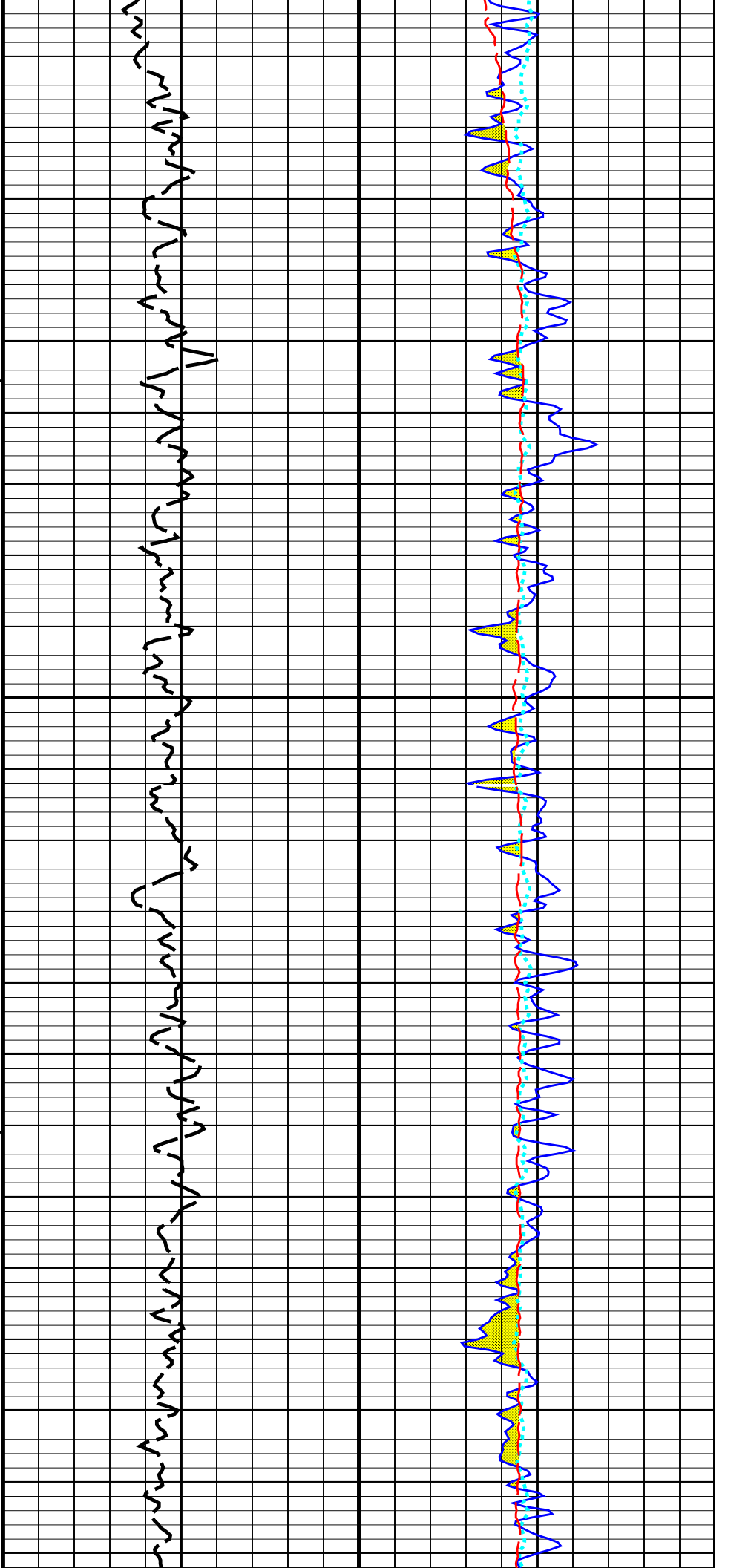


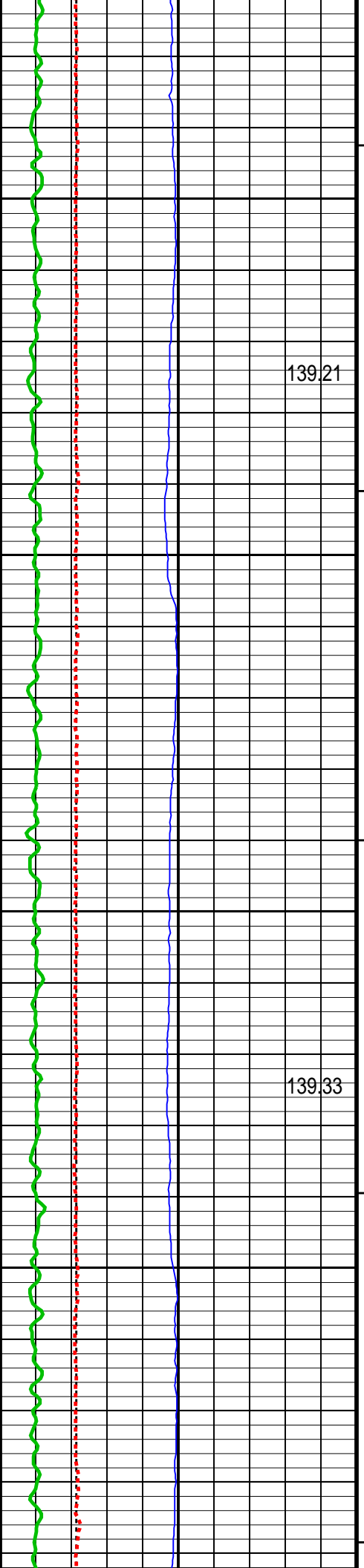
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138.99

7300

139.18



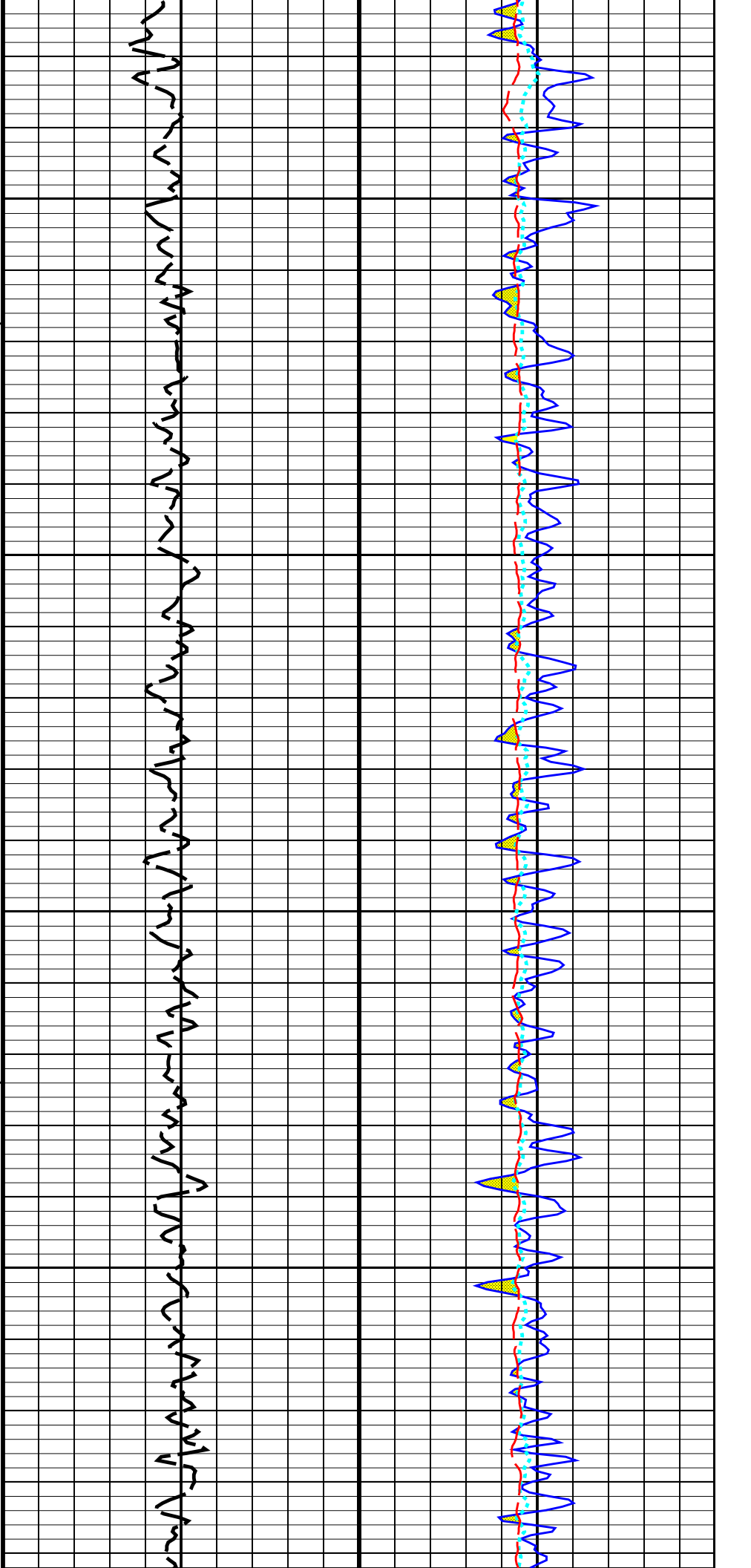


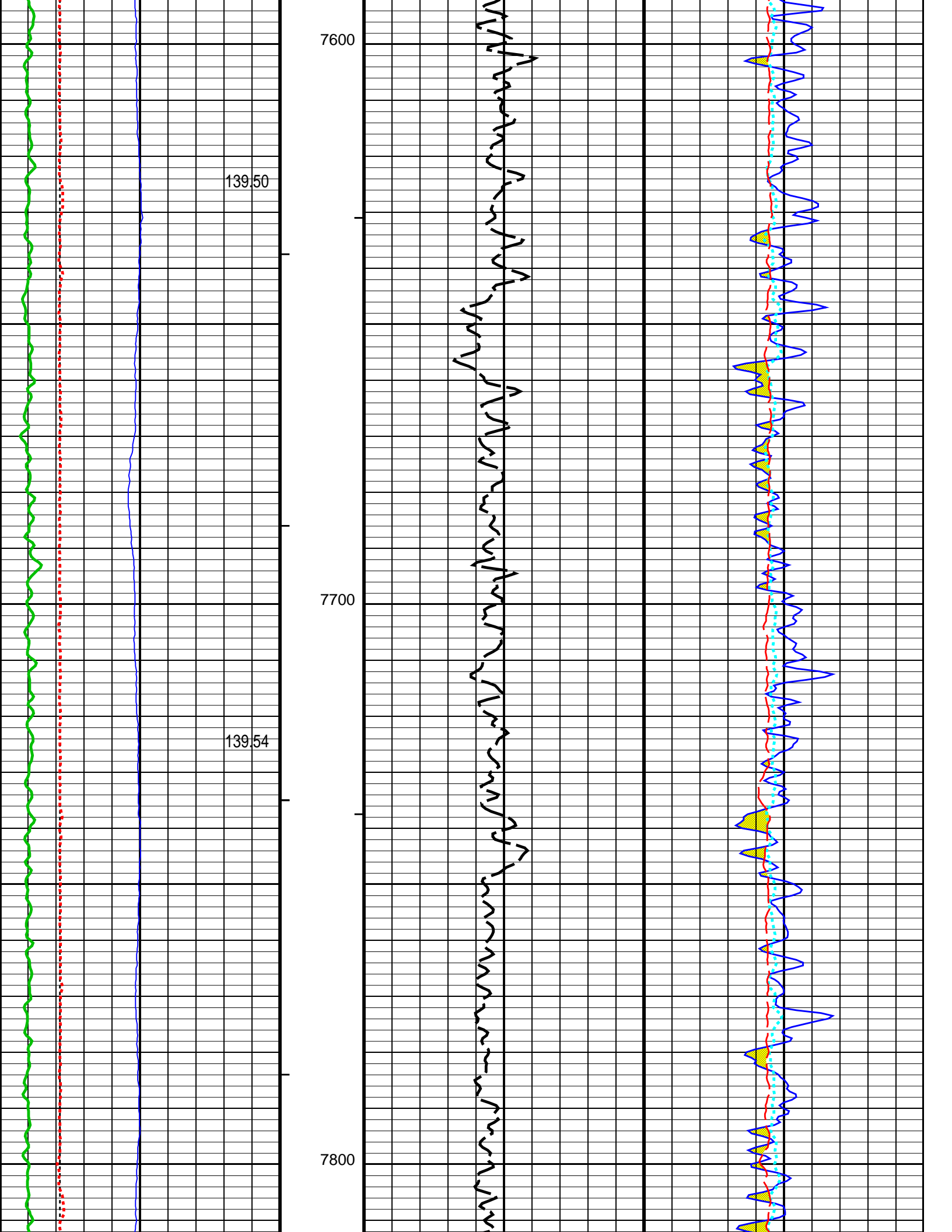
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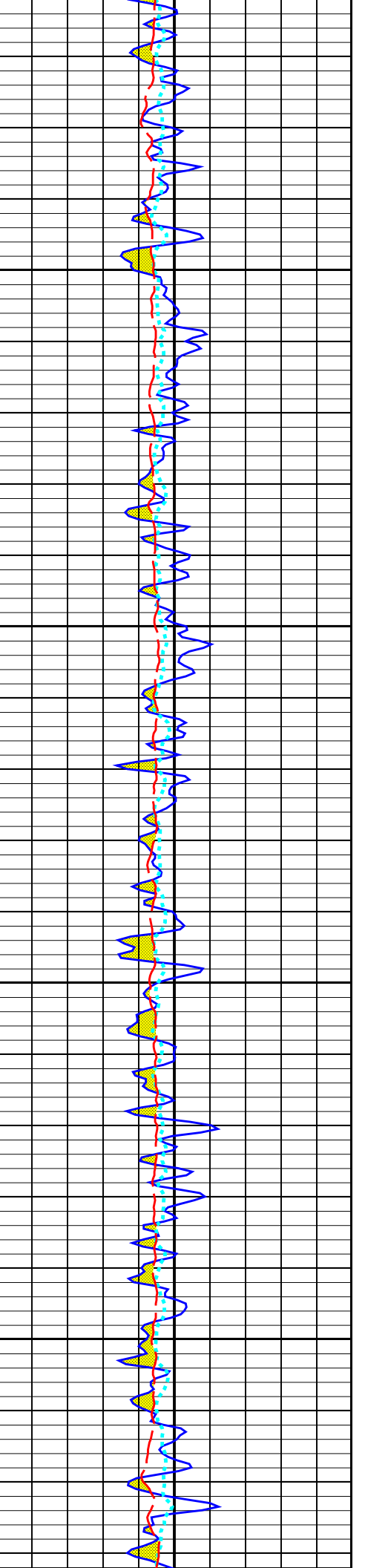
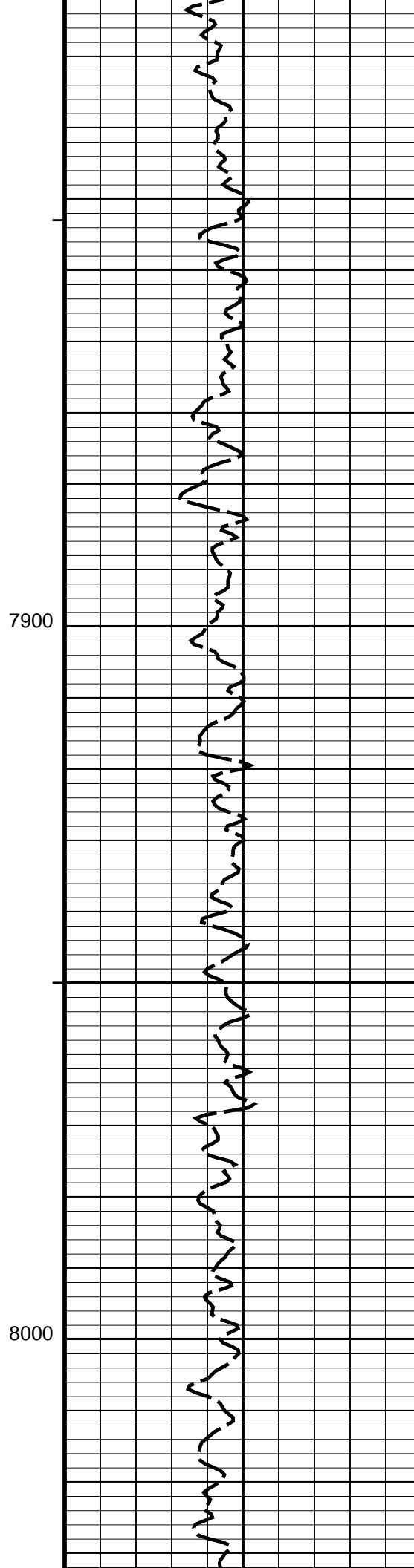
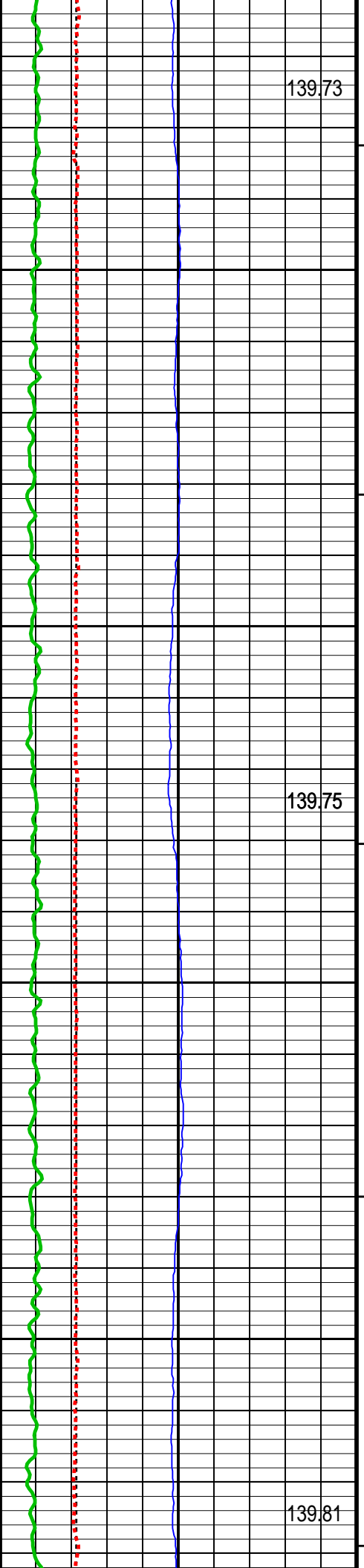
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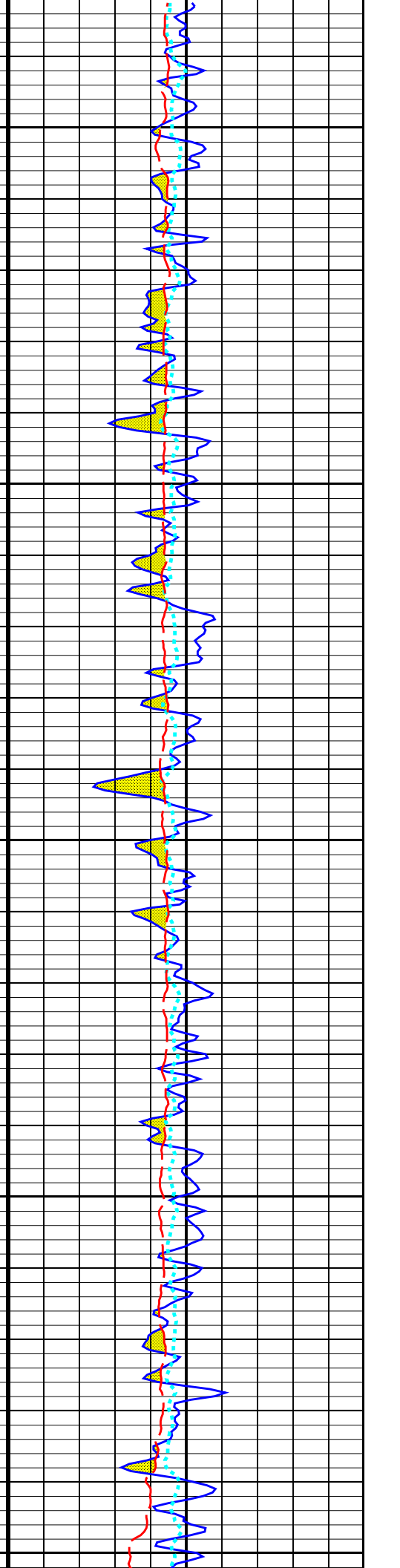
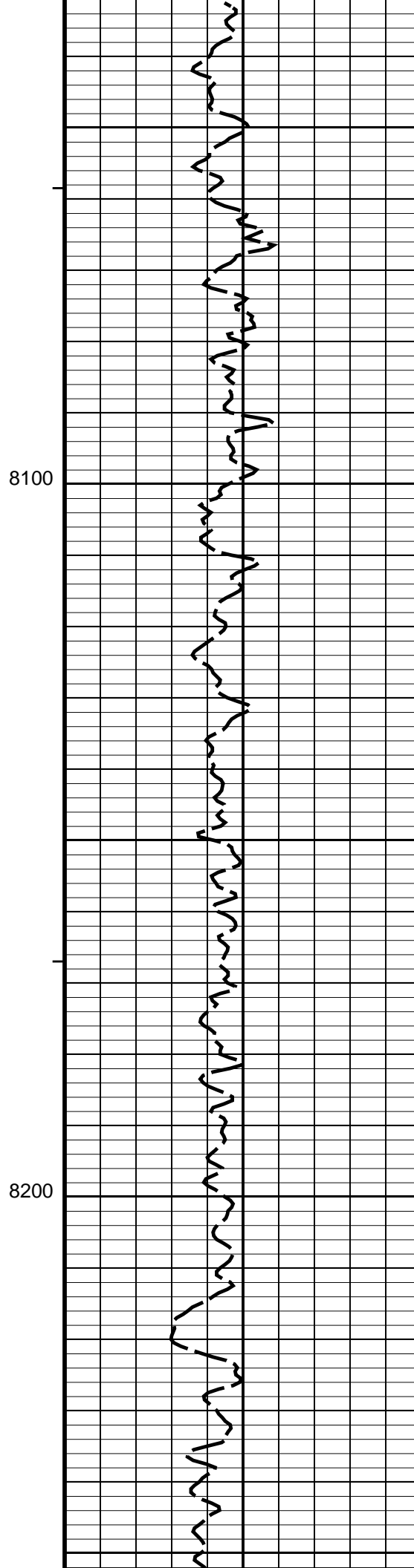
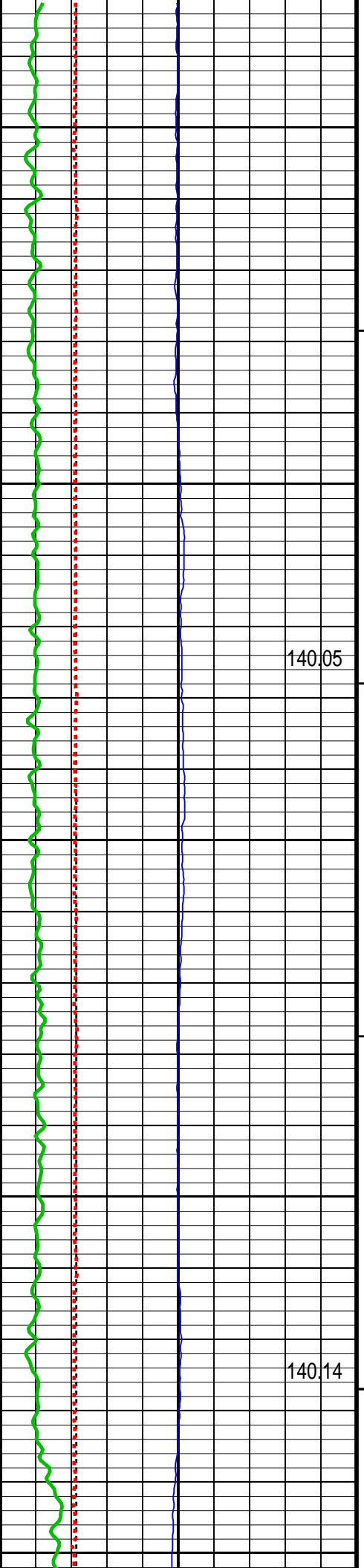
7500

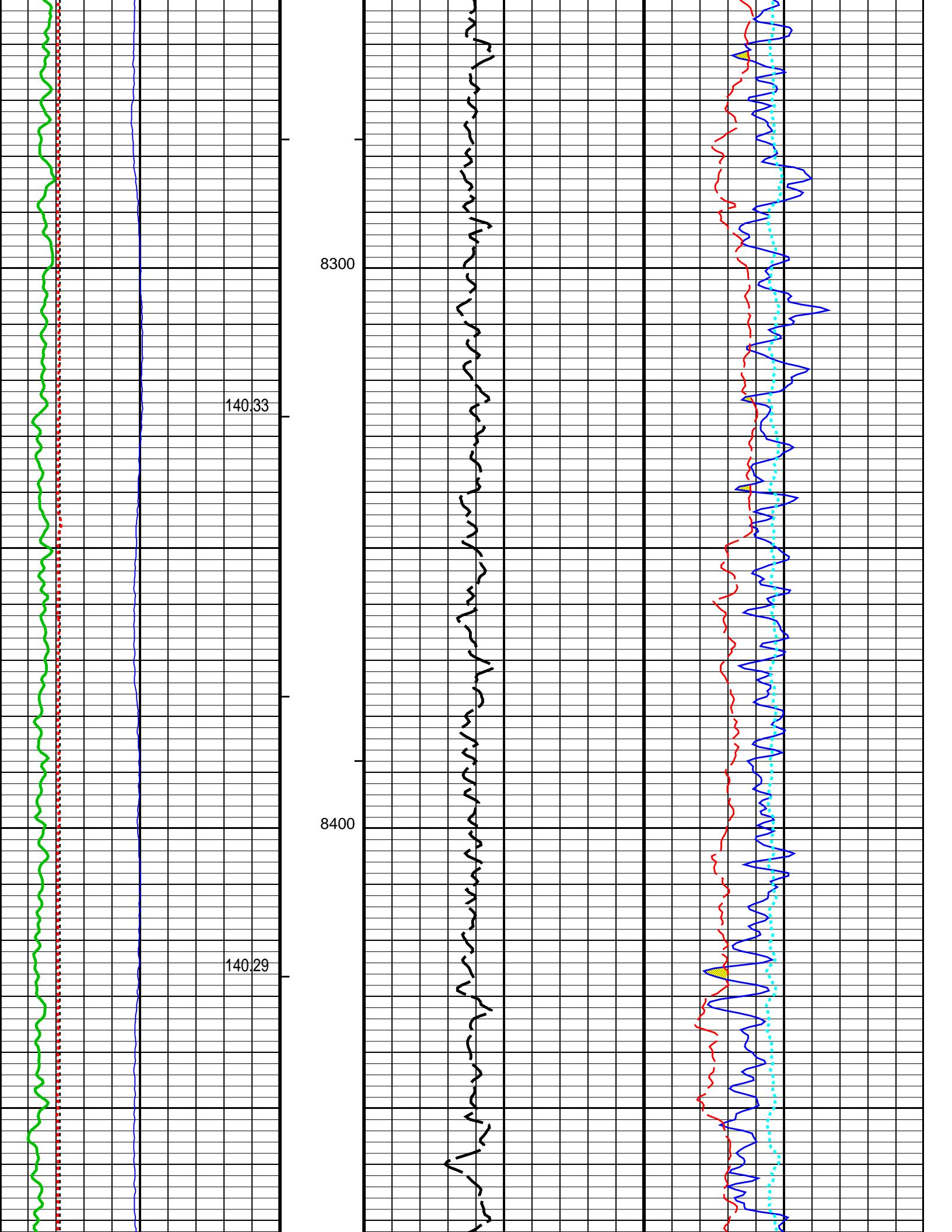
139.33

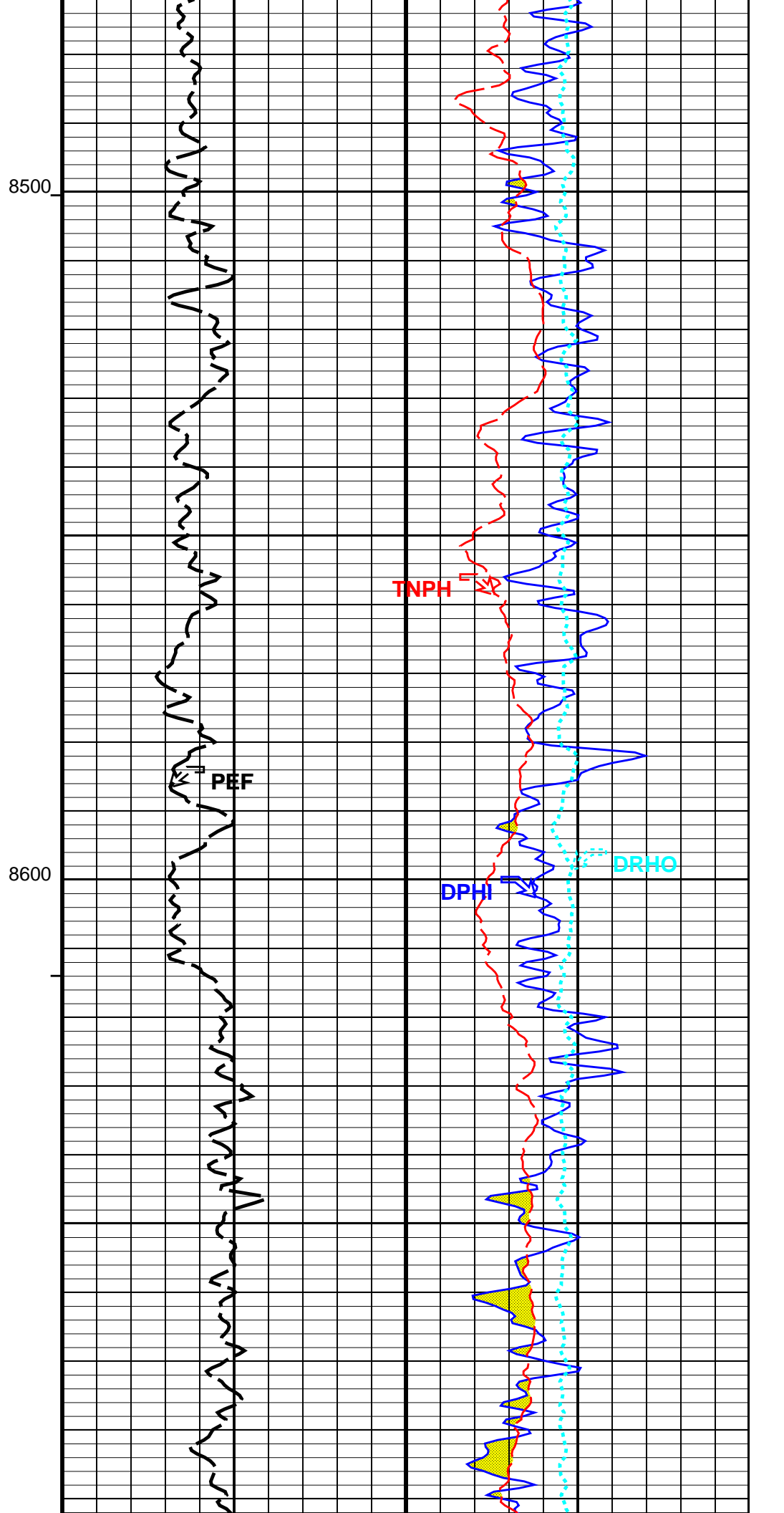
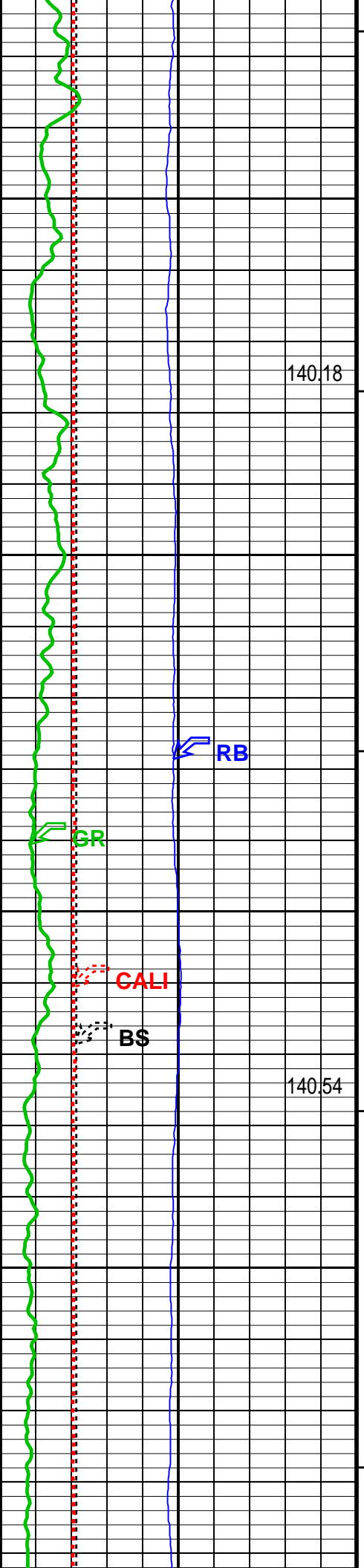


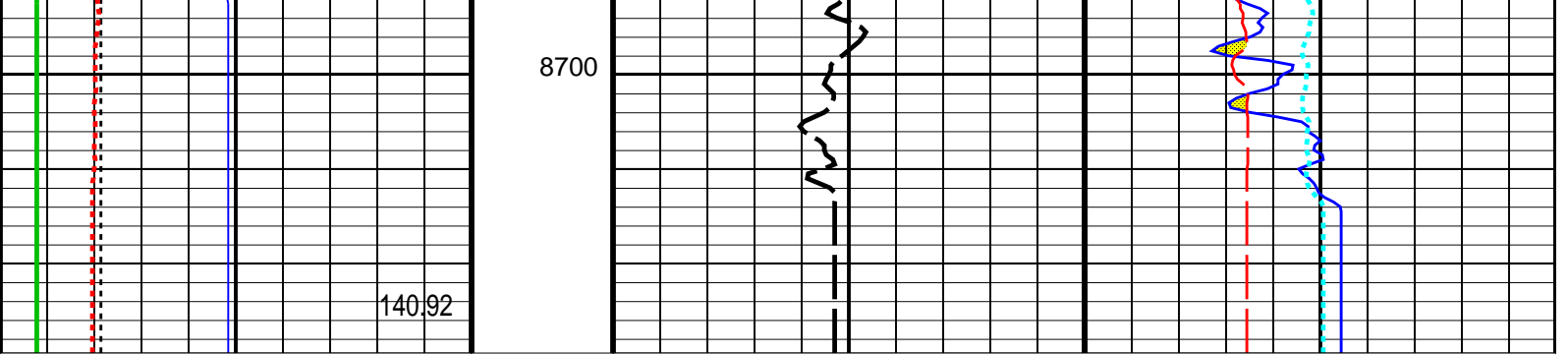












Relative Bearing (RB) (DEG)		360	DPHI (DPHI) (PU)		-10
Bit Size (BS) (IN)		14	PEF (PEF) (-----)		10
Caliper (CALI) (IN)		14	DRHO (DRHO) (G/C3)		0.5
Gamma Ray (GR) (GAPI)		150	TNPH (TNPH) (%)		-10
GR Temp (WTEP) (DEGF)					

PIP SUMMARY

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

Parameters

DLIS Name	Description	Value
TBT-A: ThruBit String		
BHS	Borehole Status	OPEN
CSAL	Cement Salinity	0.000 ppm
CSID	Casing Size I.D.	6.276 in
DHC	Density Hole Correction	BS
FD	Fluid Density	1.000 g/cm3
FSAL	Formation Salinity	0.000 ppm
FSCO	Formation Salinity Correction Enabled? (for TBN)	NO
MATR	Rock Matrix for Neutron Porosity Corrections	LIME
MDEN	Matrix Density	2.710 g/cm3
MT	Mud Type (for TBN and TBI correction)	WBM
MWCO	Mud-Weight Correction Enabled? (for TBN)	NO
RB_OFFSET	Additional RB offset (degrees)	0.000 deg
SOCO	Stand-Off Correction Enabled? (for TBN)	NO
SOFF	TBN Standoff	0.000 in
TBD_CAL_BLOCK	TBD Calibration Block Type	THRUBIT
TBD_SPIKE_REJECT	TBD Spike Detection Option	DETECT
TBD_SPIKE_THRESHOLD	TBD Attenuation Change Threshold for Spike Detection	5.000 %
TBN_BHC_OP	Borehole Correction Option (for TBN)	CALIPER
TBN_CAL_TANK	TBN Calibration Tank Type	THRUBIT
TBN_PRES_OP	Pressure Correction Enabled? (for TBN)	NO
TBN_TEMP_OP	Temperature Correction Enabled? (for TBN)	NO
TBN_WPRE	Well Pressure (for TBN)	14.696 psi
WMUD	Mud Weight	8.600 lbm/gal
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
MATR	Rock Matrix for Neutron Porosity Corrections	LIME
System and Miscellaneous		
BS	Bit Size	6.125 in
BSAL	Borehole Salinity	2800.0 ppm
CSIZ	Current Casing Size	7.000 in

Format: TB_5INCH_NUCLEAR Vertical Scale: 5" per 100' Graphics File Created: 14-Apr-2014 14:05

OP System Version: 19C2-270

TBT SRPC-5298-ThruBit_b

Input DLIS Files

Output DLIS Files

TBT .019

FN:18

14-Apr-2014 14:05



CALIBRATIONS

MAXIS Field Log

ThruBit String / Equipment Identification

Primary Equipment:

Induction Resistivity	TBI - A	16
Density	TBD - A	24
Gamma-Ray Logging Source	GGLS - FZ	3351
Thermal Neutron	TBN - A	27
Neutron Logging Source	NNLS - EWA	3754
Telemetry Memory GR	TMG - A	34
Battery	TBAT -	30
Battery	TBAT -	29

Auxiliary Equipment:

ThruBit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal
	-476.190	-457.000		79.6048	300.000
-536.000 (Minimum)	-387.000 (Maximum)		-500.000 (Minimum)	1100.00 (Maximum)	
Freq 1, A2, R	Value	Nominal	Freq 1, A2, X	Value	Nominal
	-152.960	-141.000		58.1779	320.000
-162.000 (Minimum)	-120.000 (Maximum)		-75.0000 (Minimum)	700.000 (Maximum)	
Freq 1, A3, R	Value	Nominal	Freq 1, A3, X	Value	Nominal
	-29.5675	-28.0000		16.9466	50.0000
-38.0000 (Minimum)	-18.0000 (Maximum)		-375.000 (Minimum)	475.000 (Maximum)	
Freq 1, A4, R	Value	Nominal	Freq 1, A4, X	Value	Nominal
	-16.5504	-16.0000		413.172	300.000
-24.0000 (Minimum)	-8.00000 (Maximum)		25.0000 (Minimum)	575.000 (Maximum)	
Freq 1, A5, R	Value	Nominal	Freq 1, A5, X	Value	Nominal
	-13.3646	-14.0000		131.141	150.000
-21.0000 (Minimum)	-7.00000 (Maximum)		25.0000 (Minimum)	275.000 (Maximum)	
Freq 2, A1, R	Value	Nominal	Freq 2, A1, X	Value	Nominal
	-252.623	-237.000		20.2138	150.000
-293.000 (Minimum)	-186.000 (Maximum)		-375.000 (Minimum)	675.000 (Maximum)	
Freq 2, A2, R	Value	Nominal	Freq 2, A2, X	Value	Nominal
	-99.6112	-92.0000		9.05919	160.000
-106.000 (Minimum)	-76.0000 (Maximum)		-100.000 (Minimum)	425.000 (Maximum)	
Freq 2, A3, R	Value	Nominal	Freq 2, A3, X	Value	Nominal

-28.0000 (Minimum)	(Nominal)	-13.0000 (Maximum)	-21.5980	-21.0000	-325.000 (Minimum)	(Nominal)	250.000 (Maximum)	-41.7665	-20.0000
Freq 2, A4, R		Value	Nominal		Freq 2, A4, X		Value	Nominal	
		-19.1375	-20.0000				187.848	100.000	
-28.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)			-75.0000 (Minimum)	(Nominal)	275.000 (Maximum)		
Freq 2, A5, R		Value	Nominal		Freq 2, A5, X		Value	Nominal	
		-18.3610	-20.0000				-8.68590	-25.0000	
-27.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)			-125.000 (Minimum)	(Nominal)	75.0000 (Maximum)		
Freq 3, A1, R		Value	Nominal		Freq 3, A1, X		Value	Nominal	
		-160.286	-149.000				-59.6655	25.0000	
-193.000 (Minimum)	(Nominal)	-108.000 (Maximum)			-375.000 (Minimum)	(Nominal)	425.000 (Maximum)		
Freq 3, A2, R		Value	Nominal		Freq 3, A2, X		Value	Nominal	
		-75.9403	-70.0000				-36.4169	70.0000	
-81.0000 (Minimum)	(Nominal)	-57.0000 (Maximum)			-125.000 (Minimum)	(Nominal)	250.000 (Maximum)		
Freq 3, A3, R		Value	Nominal		Freq 3, A3, X		Value	Nominal	
		-17.3825	-17.0000				-90.3443	-90.0000	
-23.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)			-300.000 (Minimum)	(Nominal)	125.000 (Maximum)		
Freq 3, A4, R		Value	Nominal		Freq 3, A4, X		Value	Nominal	
		-20.8163	-22.0000				47.8014	-50.0000	
-31.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)			-200.000 (Minimum)	(Nominal)	100.000 (Maximum)		
Freq 3, A5, R		Value	Nominal		Freq 3, A5, X		Value	Nominal	
		-21.1966	-22.0000				-110.333	-110.000	
-32.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)			-250.000 (Minimum)	(Nominal)	-25.0000 (Maximum)		
Freq 4, A1, R		Value	Nominal		Freq 4, A1, X		Value	Nominal	
		-88.9892	-80.0000				-202.494	-190.000	
-108.000 (Minimum)	(Nominal)	-54.0000 (Maximum)			-450.000 (Minimum)	(Nominal)	75.0000 (Maximum)		
Freq 4, A2, R		Value	Nominal		Freq 4, A2, X		Value	Nominal	
		-55.0070	-50.0000				-111.721	-75.0000	
-60.0000 (Minimum)	(Nominal)	-41.0000 (Maximum)			-200.000 (Minimum)	(Nominal)	50.0000 (Maximum)		
Freq 4, A3, R		Value	Nominal		Freq 4, A3, X		Value	Nominal	
		-14.0378	-14.0000				-170.495	-190.000	
-19.0000 (Minimum)	(Nominal)	-8.00000 (Maximum)			-350.000 (Minimum)	(Nominal)	-25.0000 (Maximum)		
Freq 4, A4, R		Value	Nominal		Freq 4, A4, X		Value	Nominal	
		-23.8128	-25.0000				-145.597	-235.000	
-37.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)			-400.000 (Minimum)	(Nominal)	-75.0000 (Maximum)		
Freq 4, A5, R		Value	Nominal		Freq 4, A5, X		Value	Nominal	
		-26.8619	-28.0000				-280.162	-300.000	
-43.0000 (Minimum)	(Nominal)	-12.0000 (Maximum)			-475.000 (Minimum)	(Nominal)	-125.000 (Maximum)		

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ThruBit String Master Calibration					
TBI Master Calibration COMPLEX GAINS					
Freq 1, R		Value	Nominal	Freq 1, X	
(Minimum)	(Nominal)			(Minimum)	(Nominal)
		0.9953	1.000		
		0.9921	1.000		
		0.9959	1.000		
		0.9898	1.000		
		0.9967	1.000		
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)
				0.05000 (Maximum)	

Freq 2, R		Value	Nominal	Freq 2, X		Value	Nominal
		0.9890	1.000			-0.009701	0
		0.9855	1.000			-0.008117	0
		0.9836	1.000			-0.009299	0
		0.9842	1.000			-0.005433	0
		0.9918	1.000			-0.01371	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Freq 3, R		Value	Nominal	Freq 3, X		Value	Nominal
		0.9981	1.000			-0.002254	0
		0.9952	1.000			-0.0009128	0
		0.9930	1.000			-0.002085	0
		0.9930	1.000			0.001968	0
		1.004	1.000			-0.006612	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Freq 4, R		Value	Nominal	Freq 4, X		Value	Nominal
		0.9919	1.000			-0.003911	0
		0.9884	1.000			-0.002836	0
		0.9883	1.000			-0.005810	0
		0.9870	1.000			0.001122	0
		1.007	1.000			-0.01218	0
0.9300 (Minimum)	(Nominal)	1.070 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	

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ThruBit String Master Calibration								
TBD Caliper Master Calibration								
Caliper 12in Ring IN	Value	Nominal	Caliper 9in Ring IN	Value	Nominal	Caliper 6in Ring IN	Value	Nominal
	1896.4	1949.8		2056.1	2096.7		2210.8	2285.7
1799.8 (Minimum)	(Nominal)	2099.8 (Maximum)	1946.7 (Minimum)	(Nominal)	2246.7 (Maximum)	2135.7 (Minimum)	(Nominal)	2435.7 (Maximum)

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ThruBit String Master Calibration							
TBD Density Master Calibration. PEEK Window, ThruBit blocks							
Aluminium Density G/C3		Value	Nominal	Magnesium Density G/C3		Value	Nominal
		2.607	2.607			1.752	1.752
2.557 (Minimum)	(Nominal)	2.657 (Maximum)		1.702 (Minimum)	(Nominal)	1.802 (Maximum)	
LS1 Background CPS		Value	Nominal	SS1 Background CPS		Value	Nominal
		140.87	140.00			156.41	140.00
100.00 (Minimum)	(Nominal)	187.00 (Maximum)		100.00 (Minimum)	(Nominal)	185.00 (Maximum)	
LS4 Background CPS		Value	Nominal	SS1 Aluminium CPS		Value	Nominal
		30.48	29.00			4234.44	4850.00
20.00 (Minimum)	(Nominal)	38.00 (Maximum)		4076.00 (Minimum)	(Nominal)	5613.00 (Maximum)	
LS1 Aluminium CPS		Value	Nominal	SS1 Magnesium CPS		Value	Nominal
		831.41	870.00			6996.90	8000.00
750.00 (Minimum)	(Nominal)	982.00 (Maximum)		6695.00 (Minimum)	(Nominal)	9269.00 (Maximum)	
LS4 Aluminium CPS		Value	Nominal				
		967.84	955.00				
796.00 (Minimum)	(Nominal)	1169.0 (Maximum)					
LS1 Al + Sleeve CPS		Value	Nominal				
		748.66	725.00				
552.00 (Minimum)	(Nominal)	800.00 (Maximum)					

650.00 (Minimum)	(Nominal)	838.00 (Maximum)		
LS4 Al + Sleeve CPS		Value	Nominal	
		479.98	426.50	
382.00 (Minimum)	(Nominal)	638.00 (Maximum)		
LS1 Magnesium CPS		Value	Nominal	
		5379.44	5800.00	
5158.00 (Minimum)	(Nominal)	6486.00 (Maximum)		
SS Slope		Value	Nominal	
		1.634	1.645	
1.520 (Minimum)	(Nominal)	1.770 (Maximum)		
LS Slope		Value	Nominal	
		0.4188	0.4150	
0.3800 (Minimum)	(Nominal)	0.4500 (Maximum)		
Pef K Factor		Value	Nominal	
		4.924	4.840	
3.510 (Minimum)	(Nominal)	6.170 (Maximum)		
Pef B Factor		Value	Nominal	
		-0.6690	-0.5550	
-0.7000 (Minimum)	(Nominal)	-0.4100 (Maximum)		

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ThruBit String Master Calibration					
Thermal Neutron Master Calibration					
TNF, Background CPS		Value	Nominal	TNN, Background CPS	
		0.31	1.0		
0 (Minimum)	(Nominal)	2.0 (Maximum)		0 (Minimum)	(Nominal)
TNF, Tank CPS		Value	Nominal	TNN, Tank CPS	
		70.73	96.00		
25.00 (Minimum)	(Nominal)	200.0 (Maximum)		750.00 (Minimum)	(Nominal)
TNF, Tank + Al Sleeve CPS		Value	Nominal	TNN, Tank + Al Sleeve CPS	
		2336.5	3040.0		
727.00 (Minimum)	(Nominal)	6080.0 (Maximum)		8000.00 (Minimum)	(Nominal)
Tank + Al Sleeve Ratio		Value	Nominal	Tank + Al Sleeve Porosity PU	
		11.034	10.797		
10.300 (Minimum)	(Nominal)	11.300 (Maximum)		13.40 (Minimum)	(Nominal)
Tank, Ratio		Value	Nominal	Tank, Temperature DEGF	
		28.942	30.958		
28.000 (Minimum)	(Nominal)	34.000 (Maximum)		20.0 (Minimum)	(Nominal)

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ThruBit String Master Calibration					
TMG Accelerometer Calibration					
Minimum Ax, m/s2		Value	Nominal	Maximum Ax, m/s2	
		N/A	-9.810		
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	(Nominal)
Minimum Ay, m/s2		Value	Nominal	Maximum Ay, m/s2	
		N/A	-9.810		
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	(Nominal)
Minimum Az, m/s2		Value	Nominal	Maximum Az, m/s2	
		N/A	0		
-1.000 (Minimum)	(Nominal)	1.000 (Maximum)		8.810 (Minimum)	(Nominal)

(Minimum)	(Nominal)	(Maximum)	Value	Nominal
	RB Offset, degrees		-17.00	0
-360.0 (Minimum)	(Nominal)	360.0 (Maximum)		

Master: Calibration not done

ThruBit String Master Calibration					
TMG Gamma-Ray Calibration					
GR Background GAPI	Value	Nominal	GR Jig-Background GAPI	Value	Nominal
	27.52	30.00		161.6	162.7
0 (Minimum)	(Nominal)	120.0 (Maximum)		130.2 (Minimum)	(Nominal)
				195.2 (Maximum)	

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Company: **SANDRIDGE ENERGY**

Well: **MARIE 3306 2-26H**

Field: **STOHRVILLE**

County: **HARPER**

State: **KANSAS**



DUAL SPACED NEUTRON
SPECTRAL DENSITY
MEMORY LOG