

Schlumberger

Company: **SANDRIDGE ENERGY**

Well: **STEWART 3306 3-1H**

Field: **STOHRVILLE**

County: **HARPER**

State: **KANSAS**

SANDRIDGE ENERGY

STEWART 3306 3-1H

STOHRVILLE

HARPER

State: **KANSAS**

County:	HARPER				
Field:	STOHRVILLE				
Location:	200' FSL & 2310' FWL				
Well:	STEWART 3306 3-1H				
Company:	SANDRIDGE ENERGY				
SPECTRAL DENSITY DUAL SPACED NEUTRON MEMORY LOG					
API Serial No. 15077220640100	Section 1	Township 33S	Range 6W		
				LOCATION	
				200' FSL & 2310' FWL	Elev.: K.B. 1372.00 ft G.L. 1353.00 ft D.F. 1372.00 ft
Permanent Datum:	GROUND LEVEL		Elev.: 1353.00 ft		
Log Measured From:	D.F.		19.00 ft above Perm. Datum		
Drilling Measured From:	D.F.				

Elev.: K.B. 1372.00 ft

G.L. 1353.00 ft

D.F. 1372.00 ft

Elev.: 1353.00 ft

19.00 ft above Perm. Datum

Secti

335

Range

[illegible]

Logging Date	1-Aug-2014				
Run Number	1				
Depth Driller	8945 ft				
Schlumberger Depth	8914 ft				
Bottom Log Interval	8894 ft				
Top Log Interval	2500 ft				
Casing Driller Size @ Depth	7.000 in @ 5173 ft			@	
Casing Schlumberger	5174 ft				
Bit Size	6.125 in				
Type Fluid In Hole	WBM				
Density	8.4 lbm/gal	28 s			
Fluid Loss	60 cm3	10			
Source Of Sample	MUD SENSOR				
RM @ Measured Temperature	1.210 ohm.m	@ 65 degF	@		
RMF @ Measured Temperature	1.030 ohm.m	@ 65 degF	@		
RMC @ Measured Temperature	1.390 ohm.m	@ 65 degF	@		
Source RMF	CALCULATED	CALCULATED			
RM @ MRT	0.584 @ 142	0.497 @ 142	@		@
Maximum Recorded Temperatures	142 degF				
Circulation Stopped	1-Aug-2014		21:00		
Logger On Bottom	1-Aug-2014		21:54		
Unit Number	Location				
Recorded By	C.PARKER				
Witnessed By	J.PRIETO				

[illegible]

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.

OS1: TBI-TBD-TBN-TMG
OS2: SGR
OS3:
OS4:
OS5:

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2

ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST

TOOLSTRING RAN WITH SWIVEL AND SMALL DE-CENTRALIZE

ABHV REPRESENTS ANNULAR HOLE VOLUME, CALCULATED FOR 4.5" CSG, ft3

LOG CORRELATED TO MWD GR

RIG:NOMAC 52

CREW: C.PARKER I.HERNDEZ R.WILSON

SERVICE ORDER #: 3089
PROGRAM VERSION: 19C2-270
FLUID LEVEL: 0 ft

LOGGED INTERVAL

START

STOP

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL

START

STOP

RUN 1

SURFACE EQUIPMENT

WITM (ThruBit)

DOWNHOLE EQUIPMENT

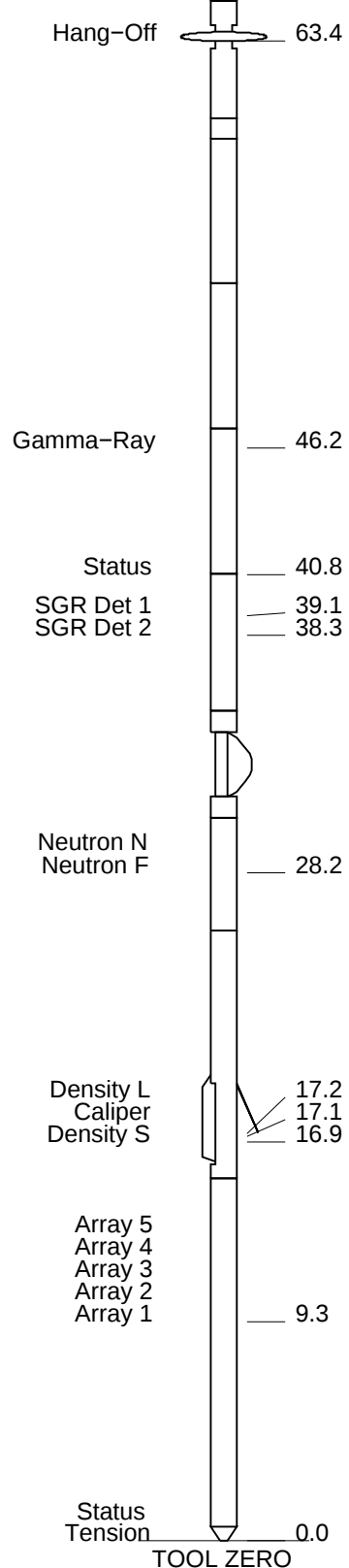
TBT-A
THEAD
CCL
BDOT-B 14
THOT 29
T10 1
TBAT1 1
TBAT2 2

CCL

70.0

72.9

TMG-A 27
TBSG-A 5
TILE-A
TBN-A 18
NNLS-EWA 4484
TBD-A 46
GGLS-FZ 3216
TBI-A 48



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: STEWART 3306 3-1H

Input DLIS Files				
ThruBit_005PUP	FN:4	02-Aug-2014 05:45	9018.0 FT	2475.5 FT

OP System Version: 19C2-270	
TBT	SRPC-5298-ThruBit_b

Relative Bearing (RB)
0 (DEG) 940

gr wrap4
From LHT1 to GR4

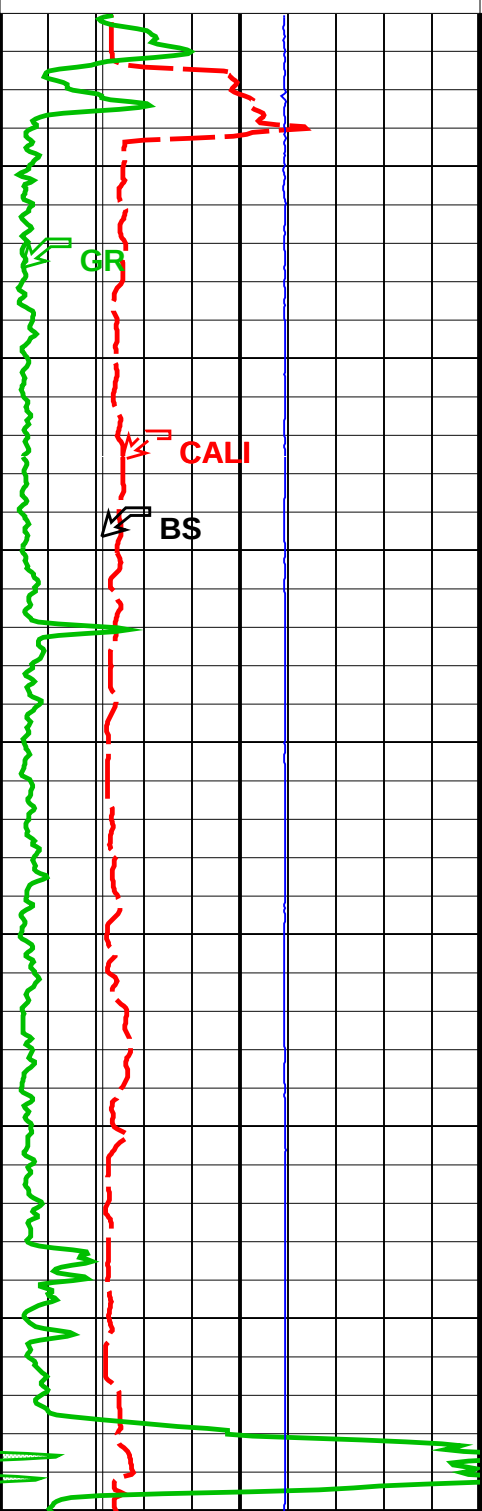
gr wrap3
From LHT1 to GR3

gr wrap2
From LHT1 to GR2

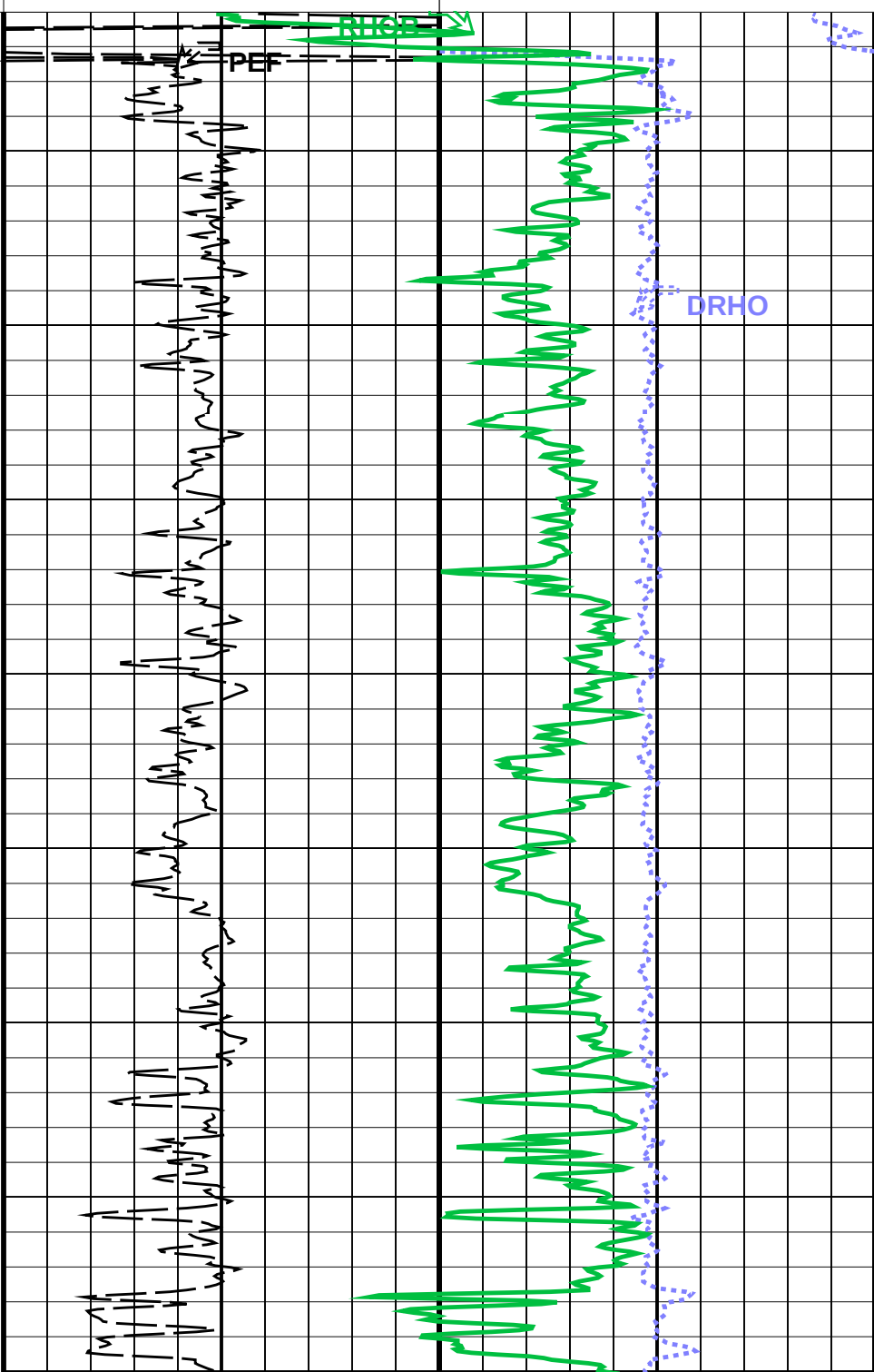
gr wrap1
From LHT1 to GR1

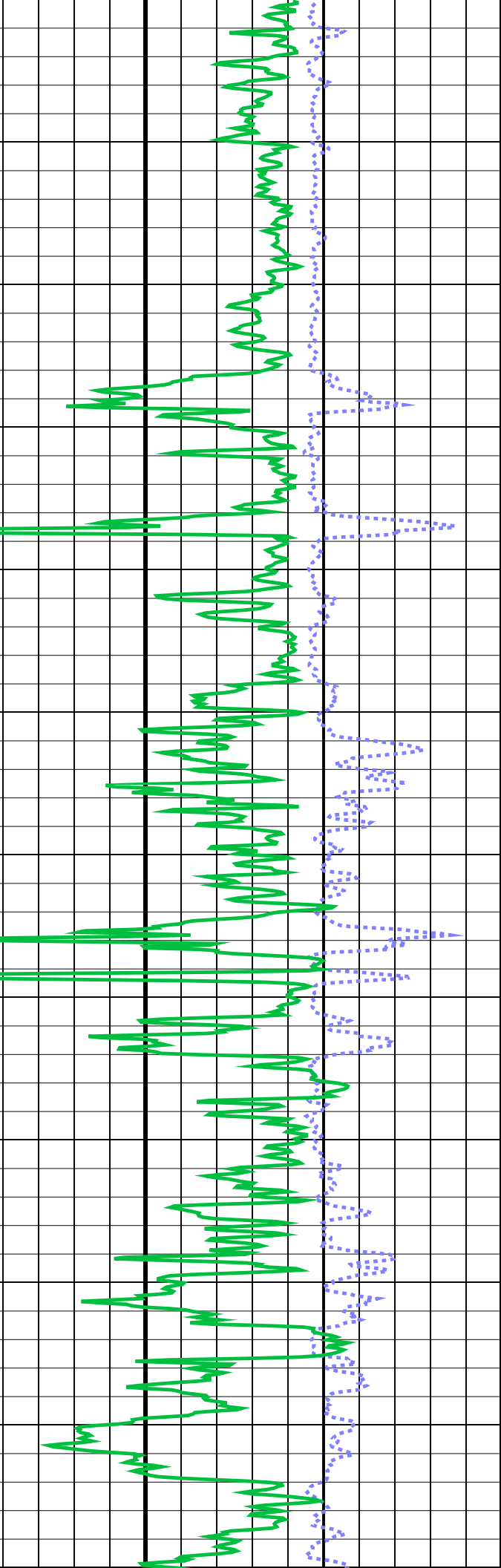
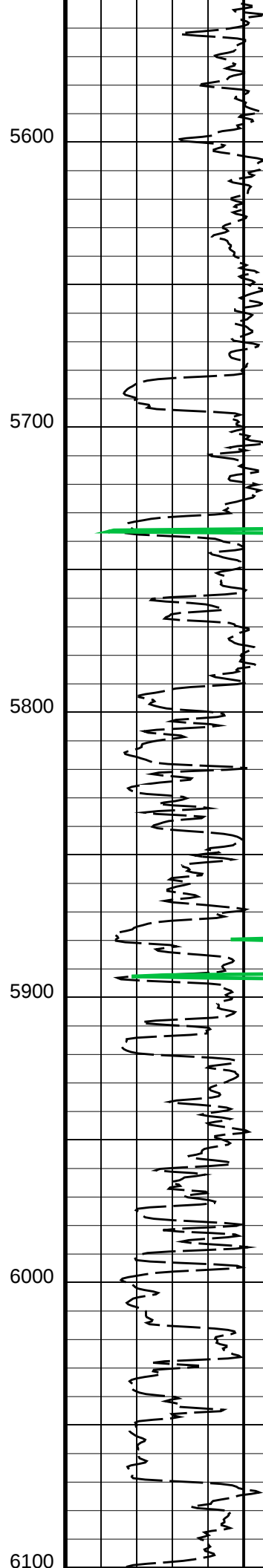
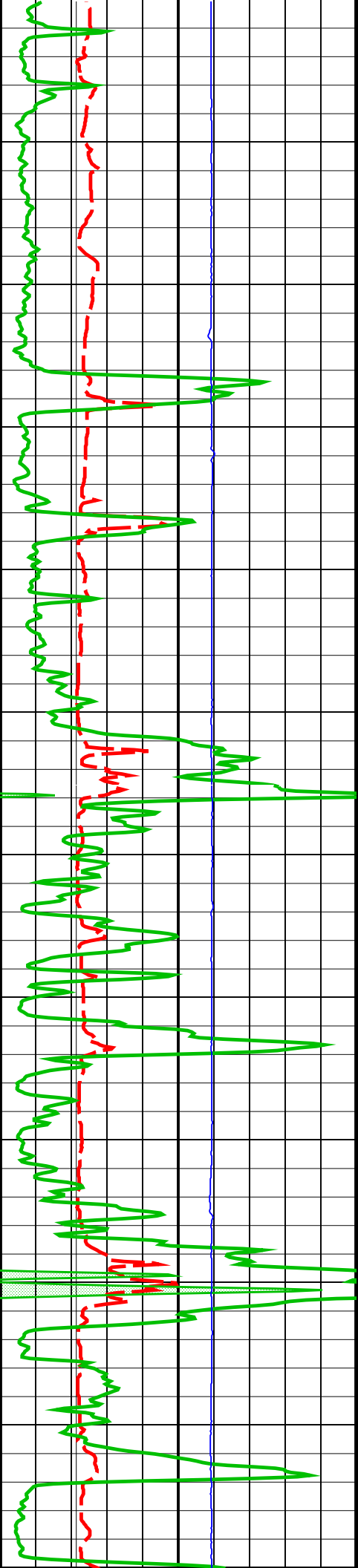
Gamma Ray (GR)

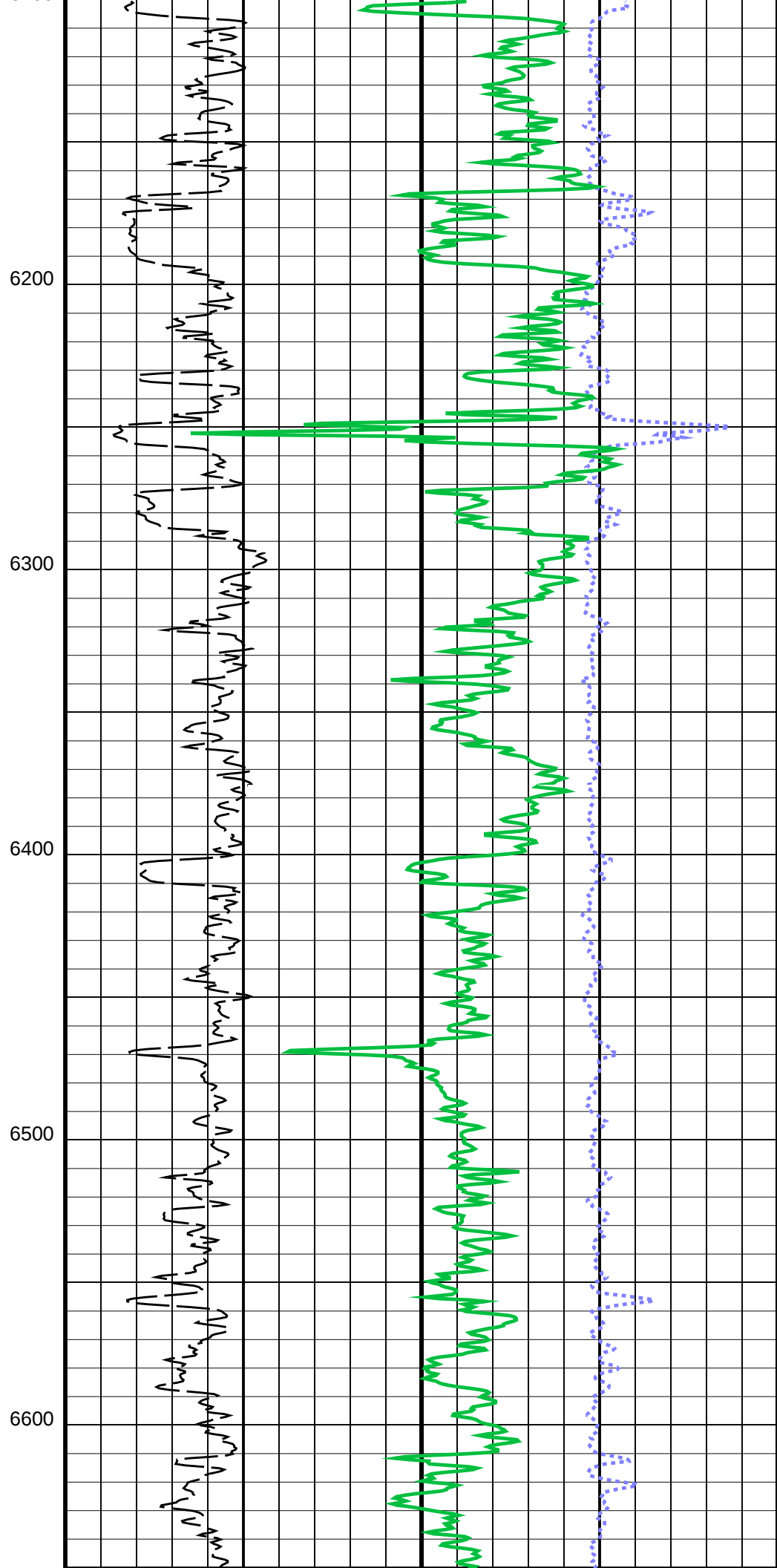
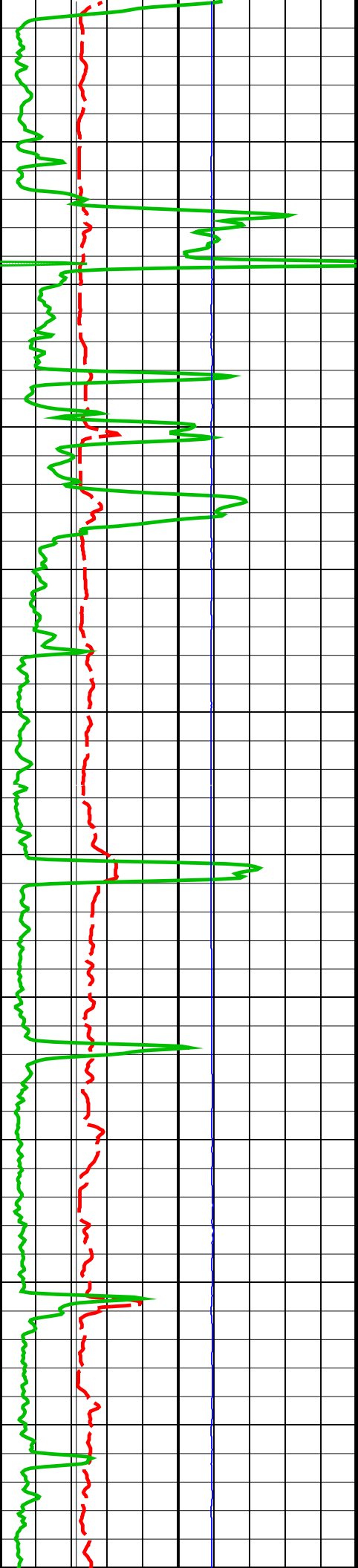
Gamma Ray (GR)		
(GAPI)		
0		150
Caliper (CALI)		
(IN)		
4		14
Gamma Ray 4 (GR)		
(GAPI)		
600		750
Gamma Ray 3 (GR)		
(GAPI)		
450		600
Gamma Ray 2 (GR)		
(GAPI)		
300		450
Gamma Ray 1 (GR)		
(GAPI)		
150		300
Bit Size (BS)		
(IN)		
4		14

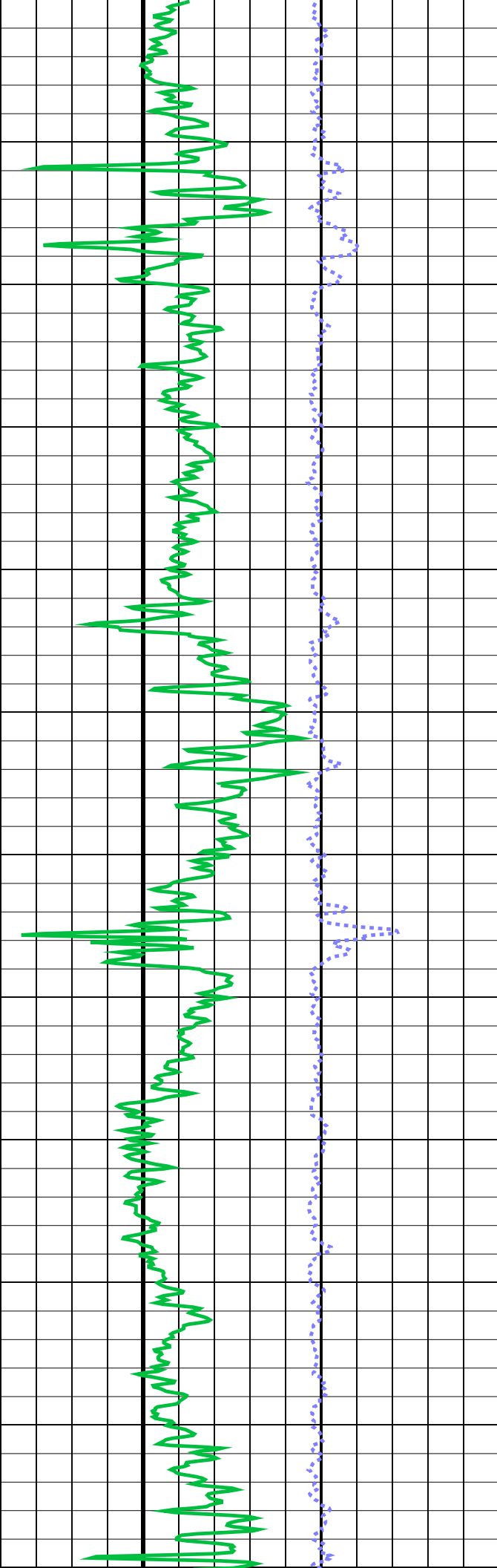
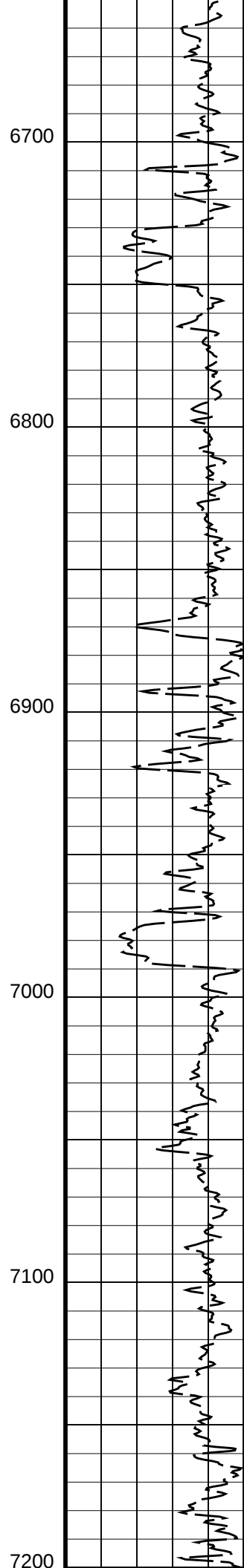
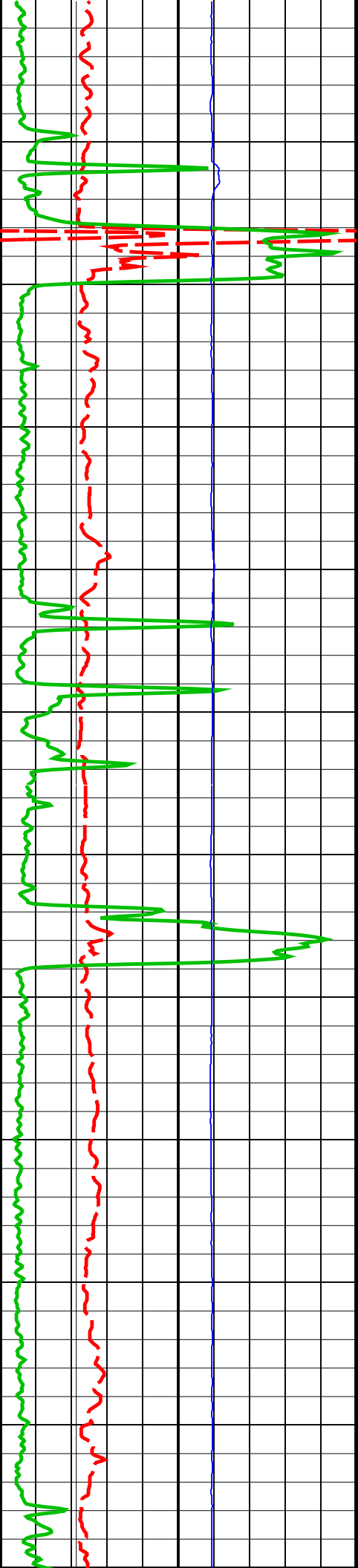


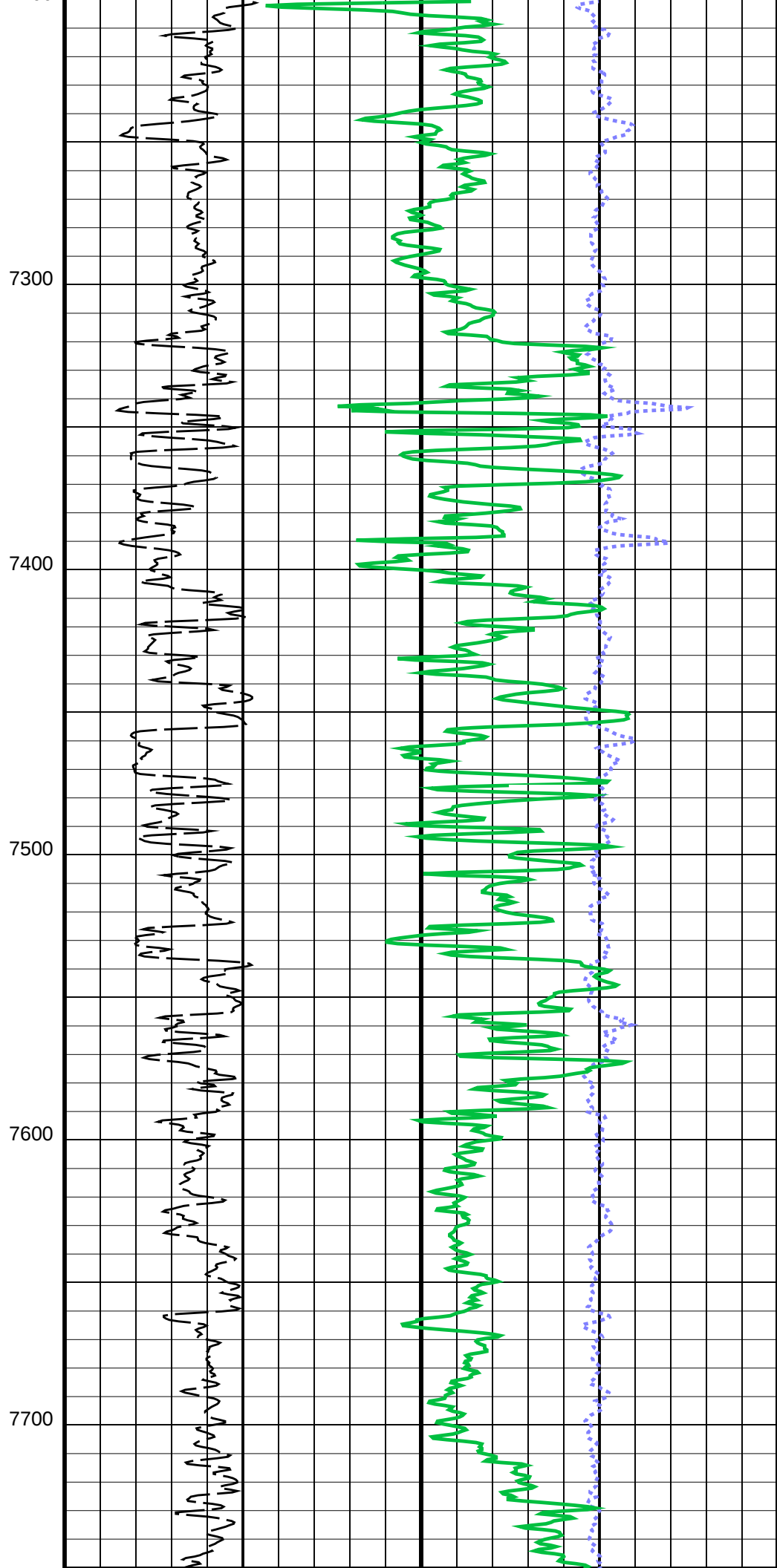
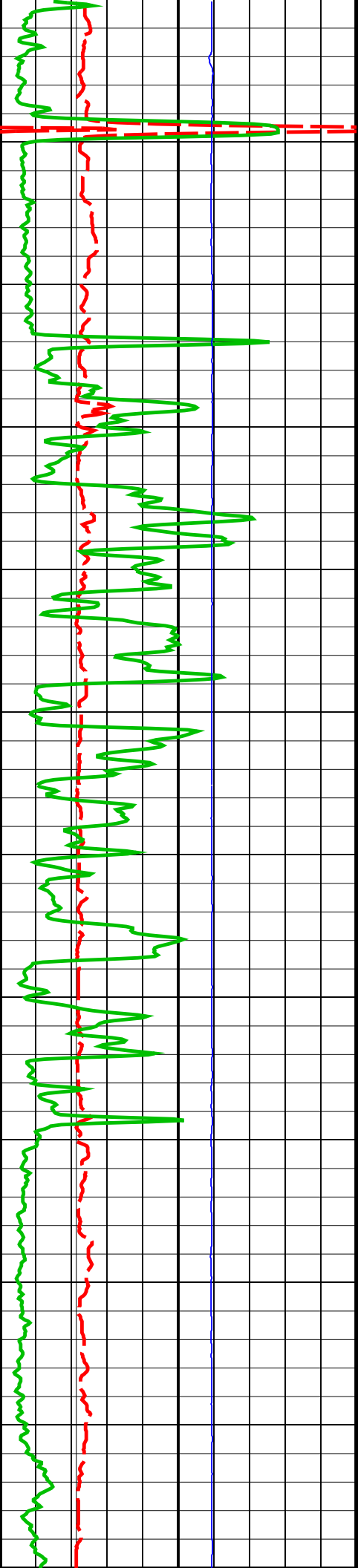
RHOB (RHOB)		
(G/C3)		
2		3
PEF (PEF)		DRHO (DRHO)
(----		(G/C3)
0	10	-0.5 0.5

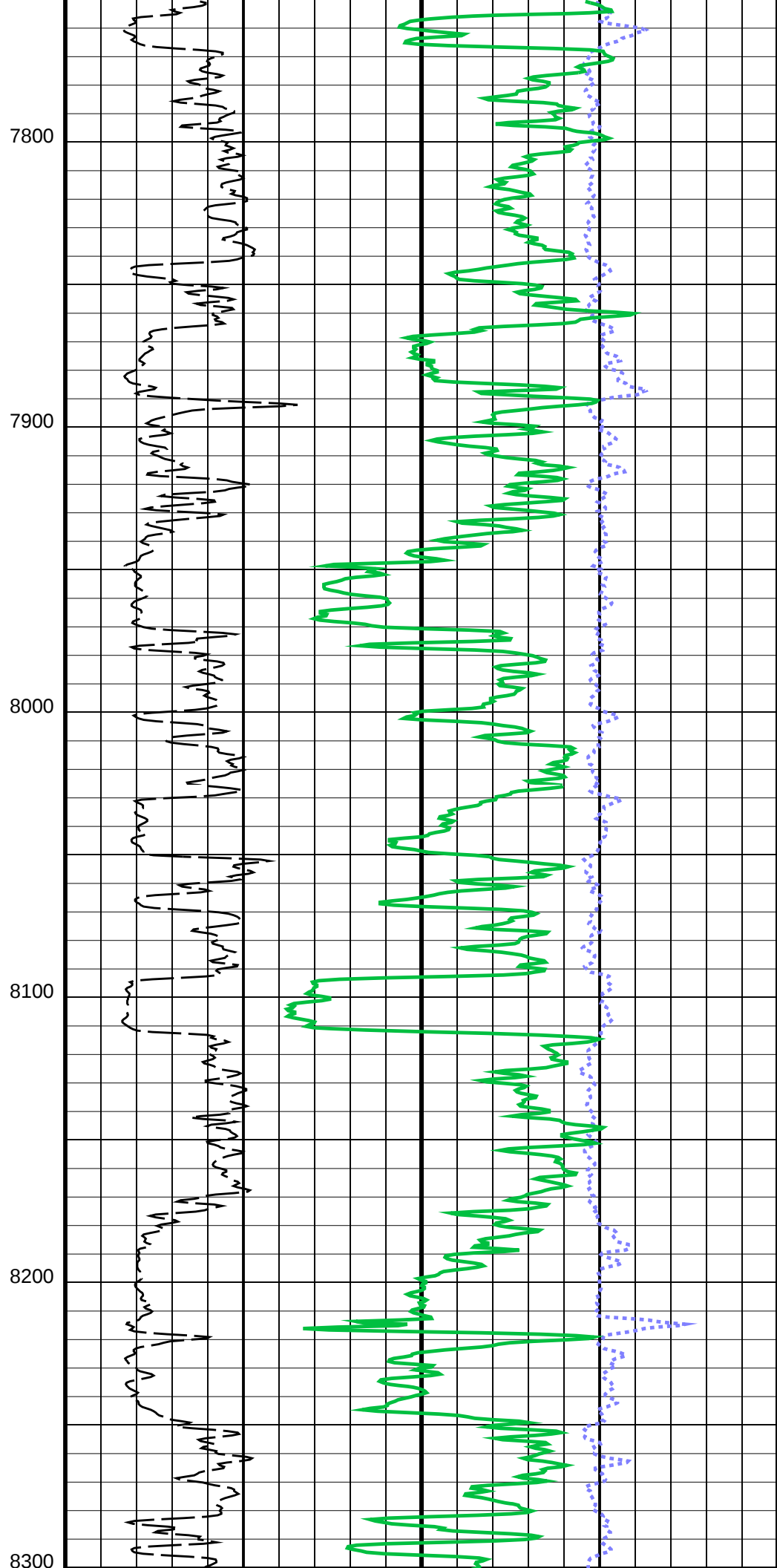
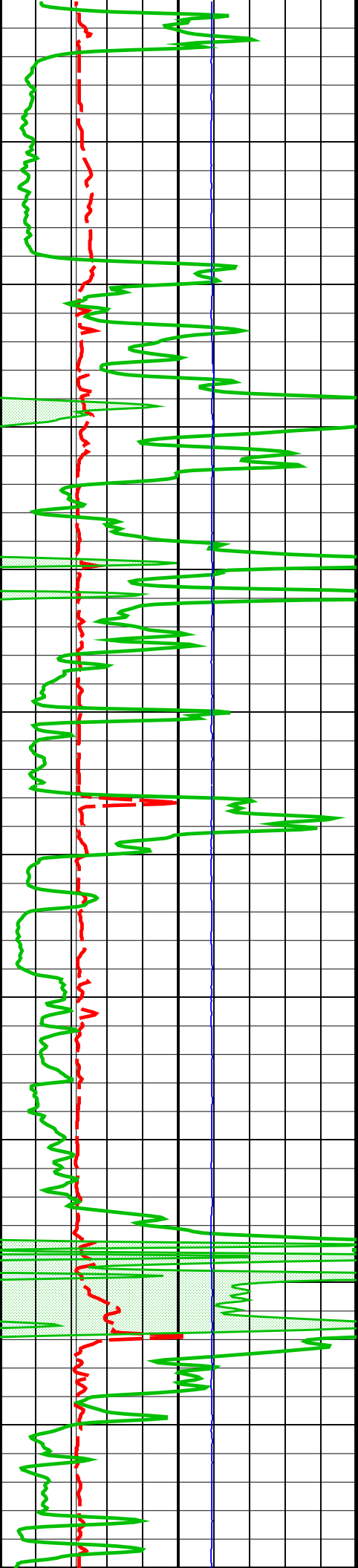


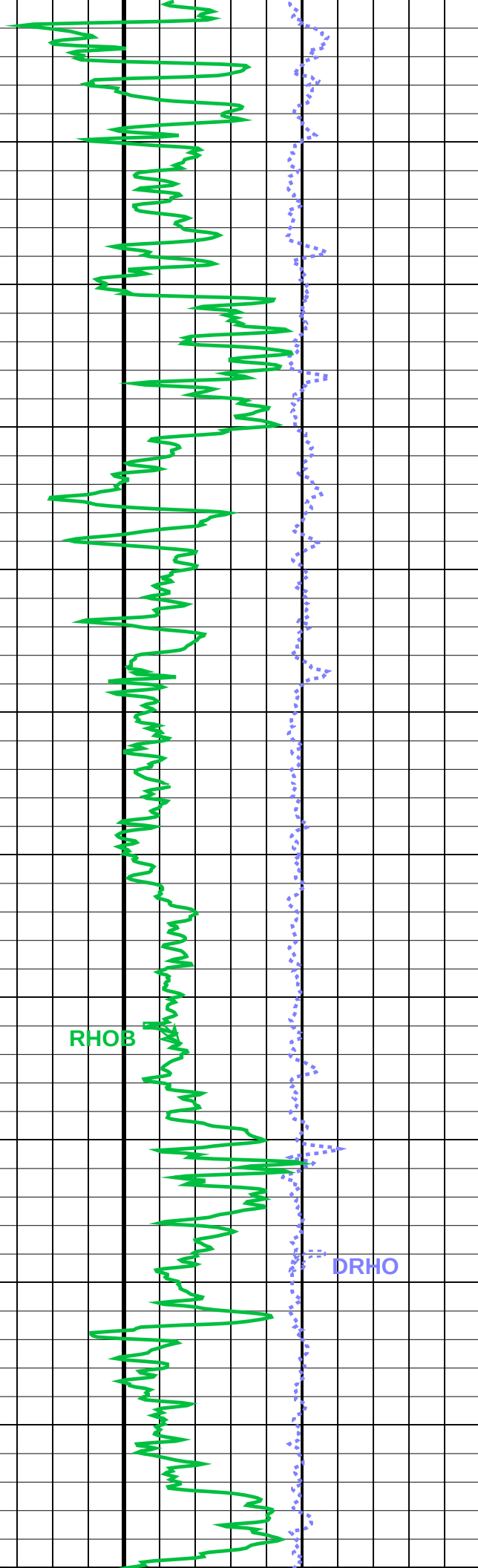
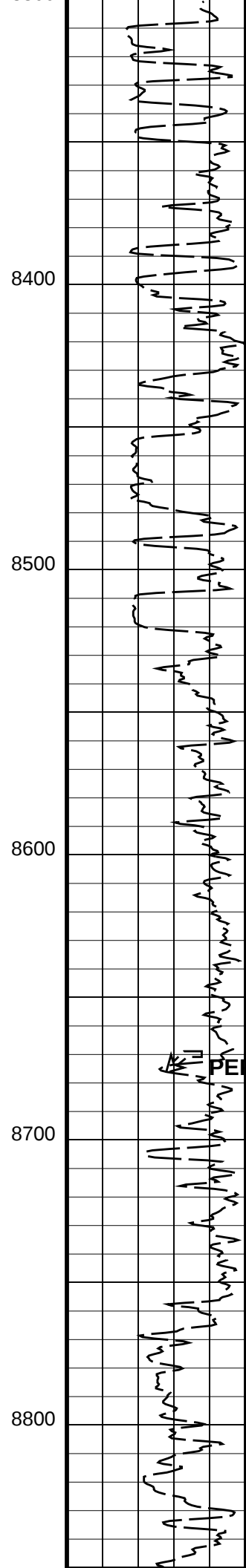
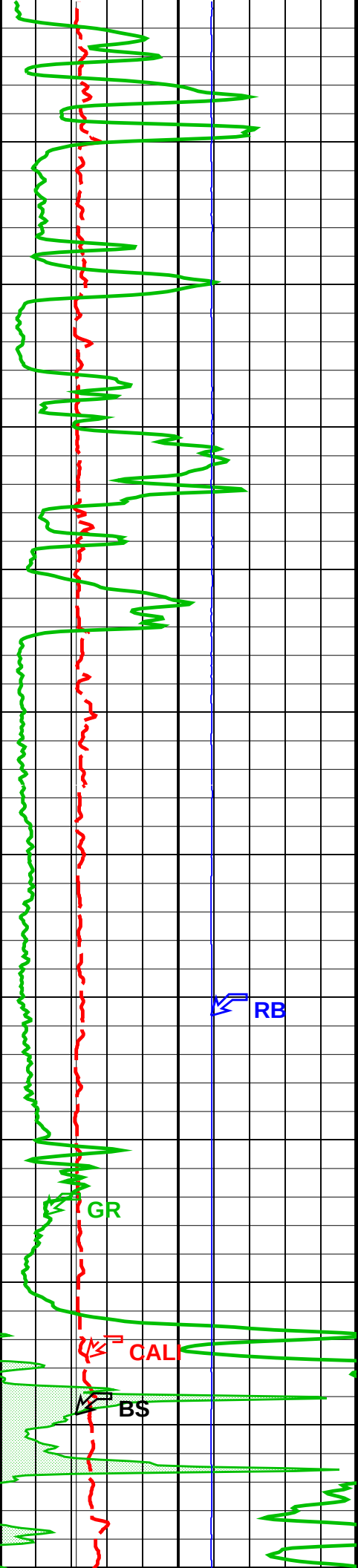












OP System Version: 19C2-270

TBT

SRPC-5298-ThruBit_b

Input DLIS Files

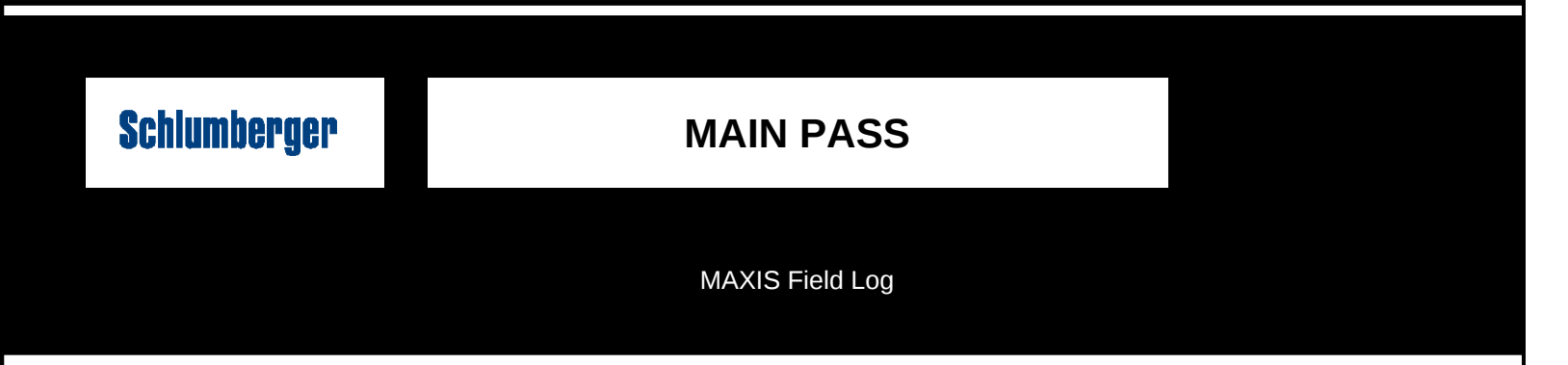
ThruBit_005PUP

FN:4

02-Aug-2014 05:45

9018.0 FT

2475.5 FT



Input DLIS Files

ThruBit_005PUP

FN:4

02-Aug-2014 05:45

9018.0 FT

2475.5 FT

OP System Version: 19C2-270

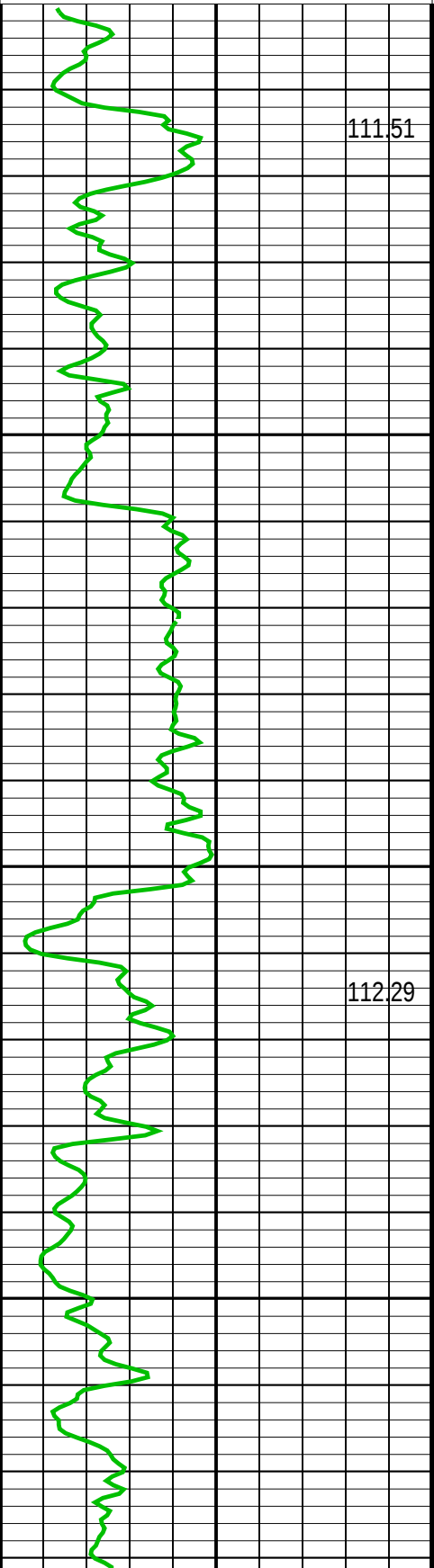
TBT

SRPC-5298-ThruBit_b

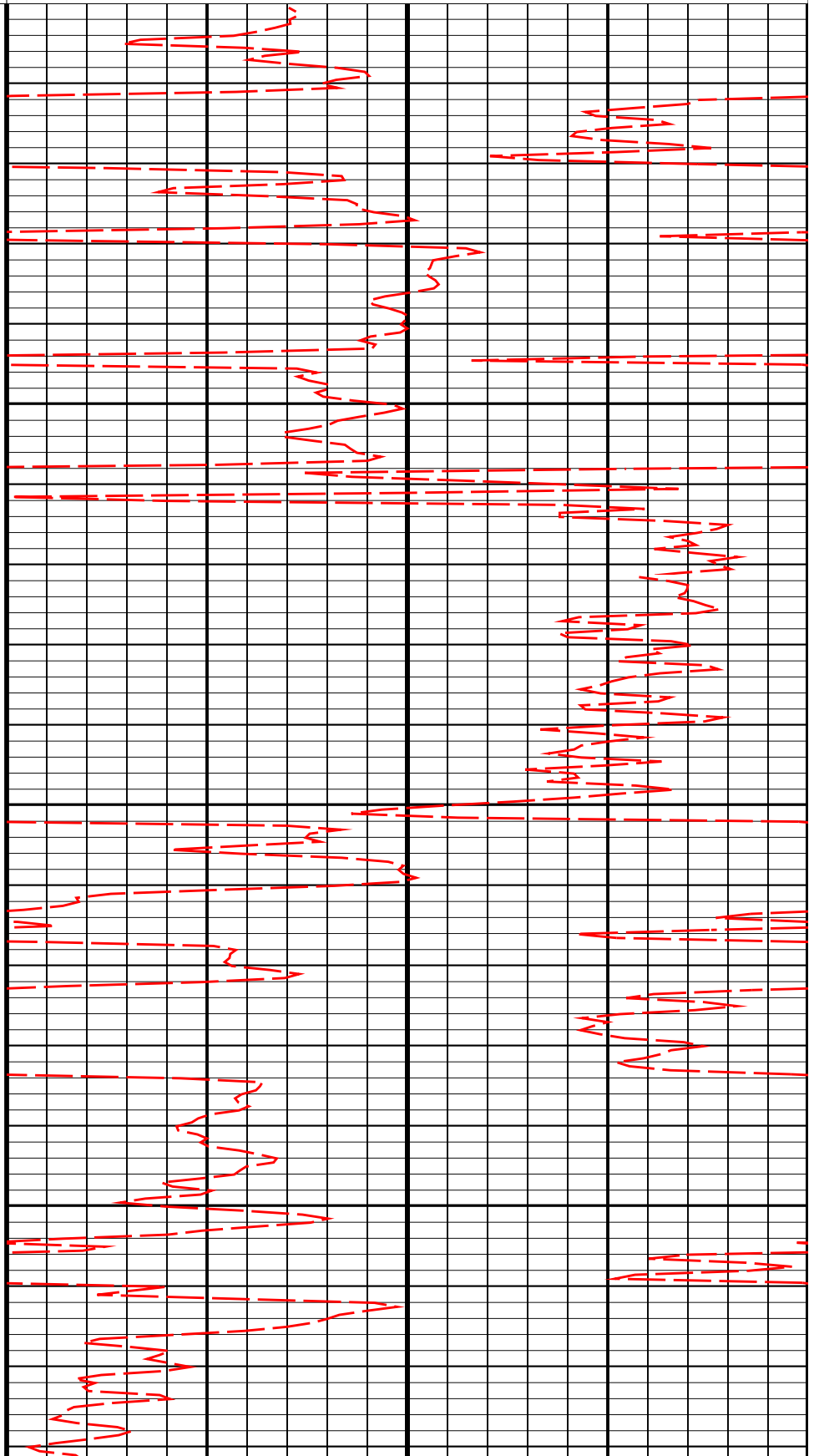
PIP SUMMARY		
└ Integrated Cement Volume Major Pip Every 100 F3		
└ Integrated Cement Volume Minor Pip Every 10 F3		
└ Integrated Hole Volume Major Pip Every 100 F3		
└ Integrated Hole Volume Minor Pip Every 10 F3		

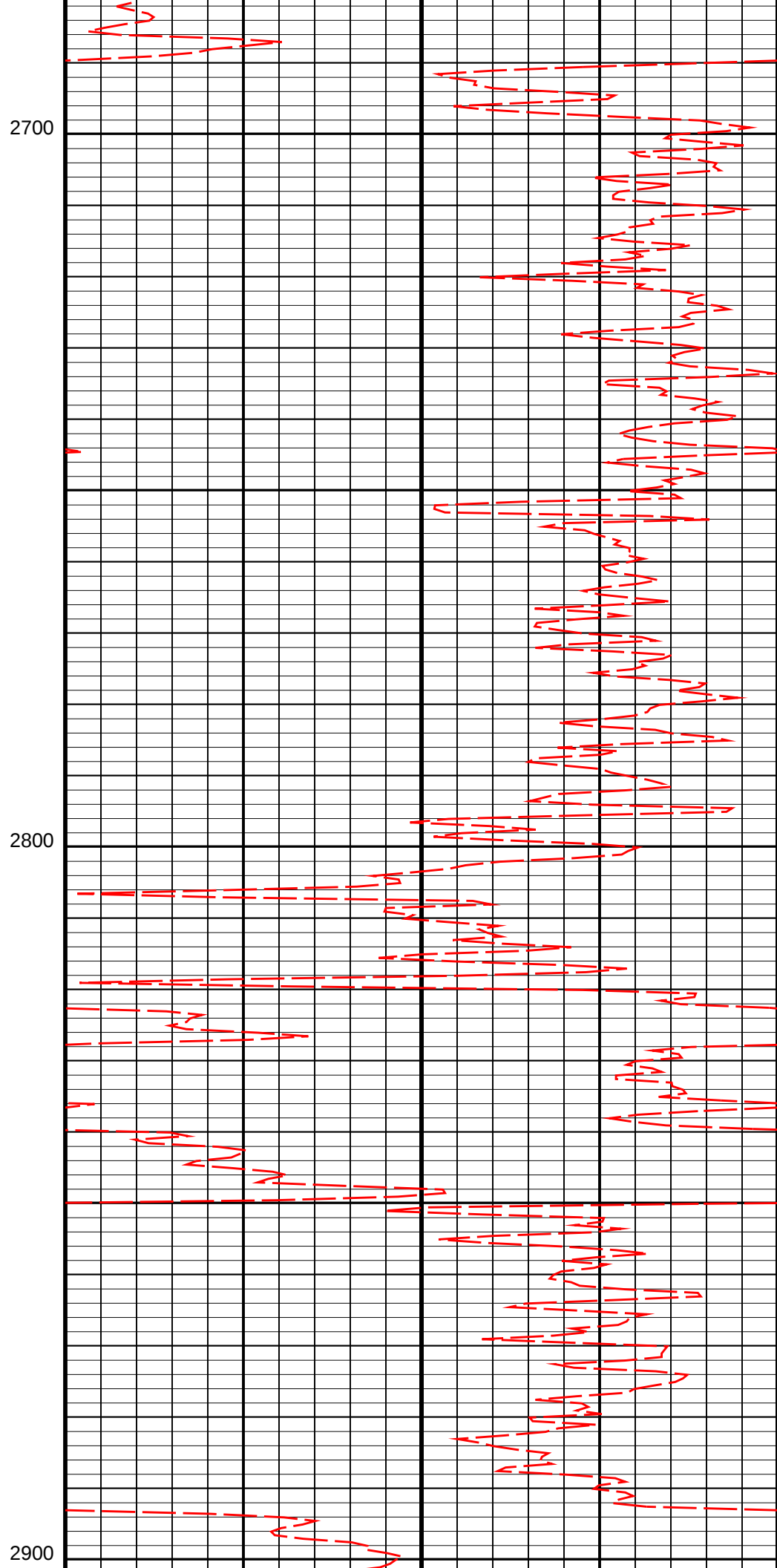
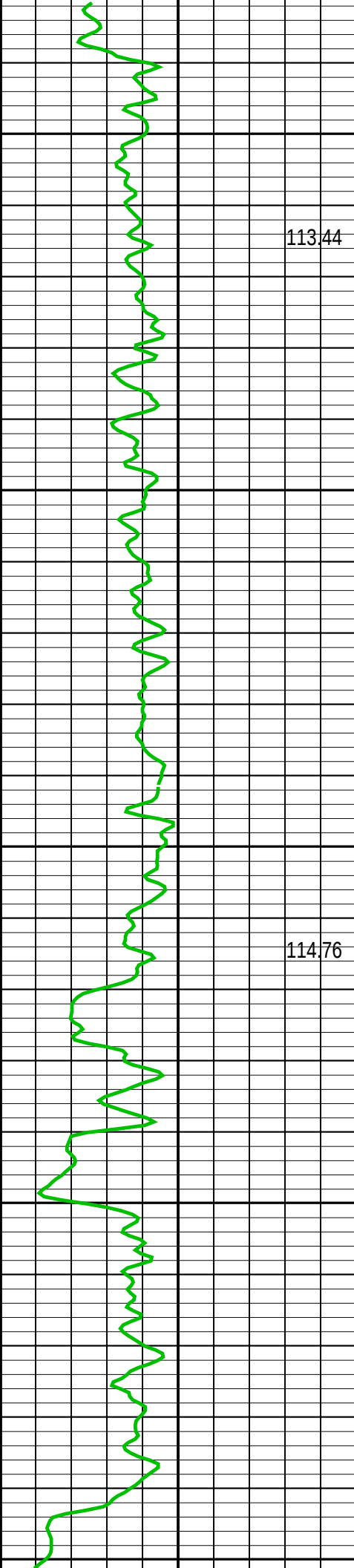
	Relative Bearing (RB)	
0	(DEG)	940
gr wrap4 From LHT1 to GR4		
gr wrap3 From LHT1 to GR3		
gr wrap2 From LHT1 to GR2		
gr wrap1 From LHT1 to GR1		
Gamma Ray (GR)		
0	(GAPI)	150
Caliper (CALI)		
4	(IN)	14
Gamma Ray 4 (GR)		
600	(GAPI)	750
Gamma Ray 3 (GR)		
450	(GAPI)	600

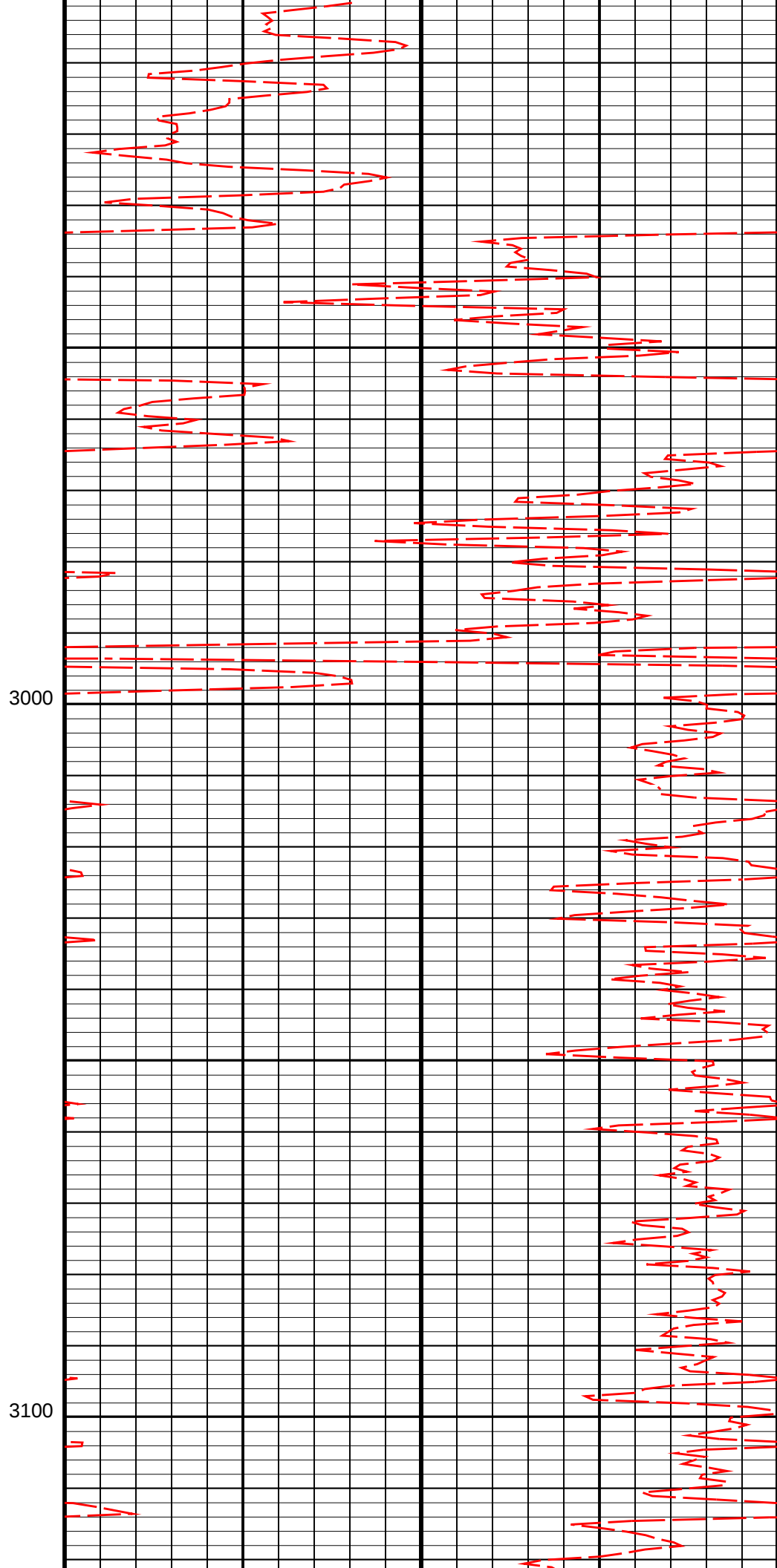
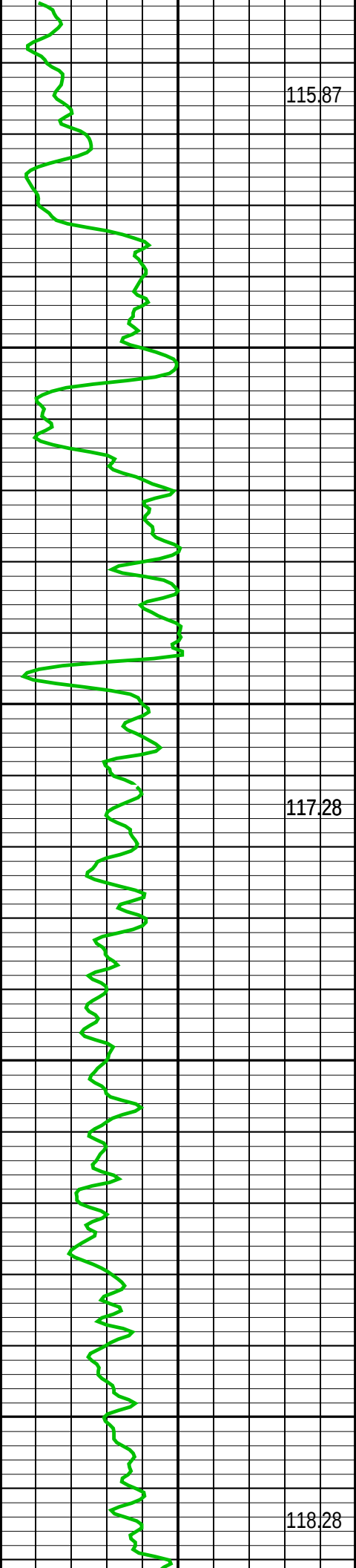
Gamma Ray 2 (GR)		
300	(GAPI)	450
Gamma Ray 1 (GR)		
150	(GAPI)	300
Bit Size (BS)		
4	(IN)	14
GR Temp (WTEP)		
(DEGF)		

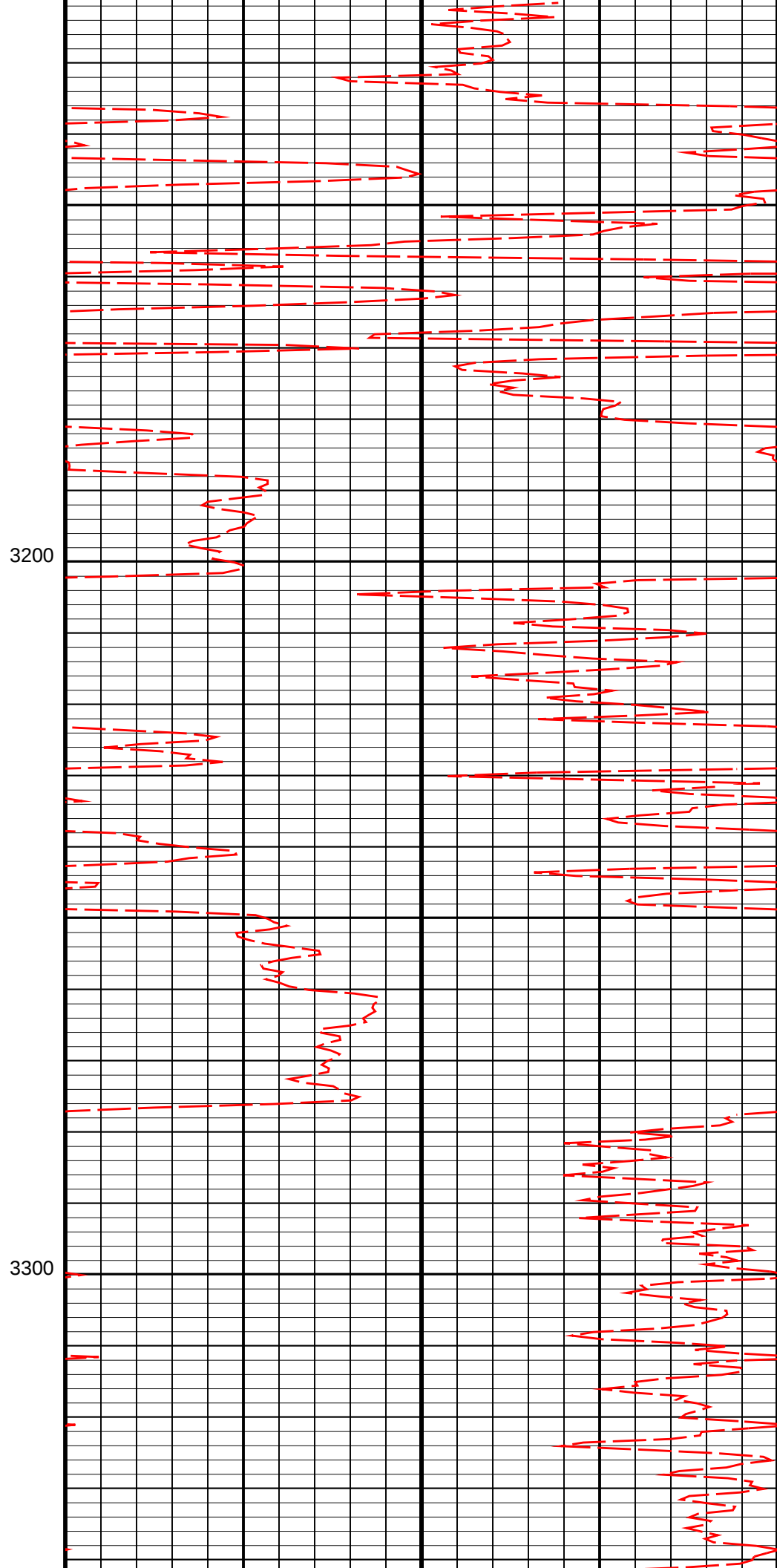
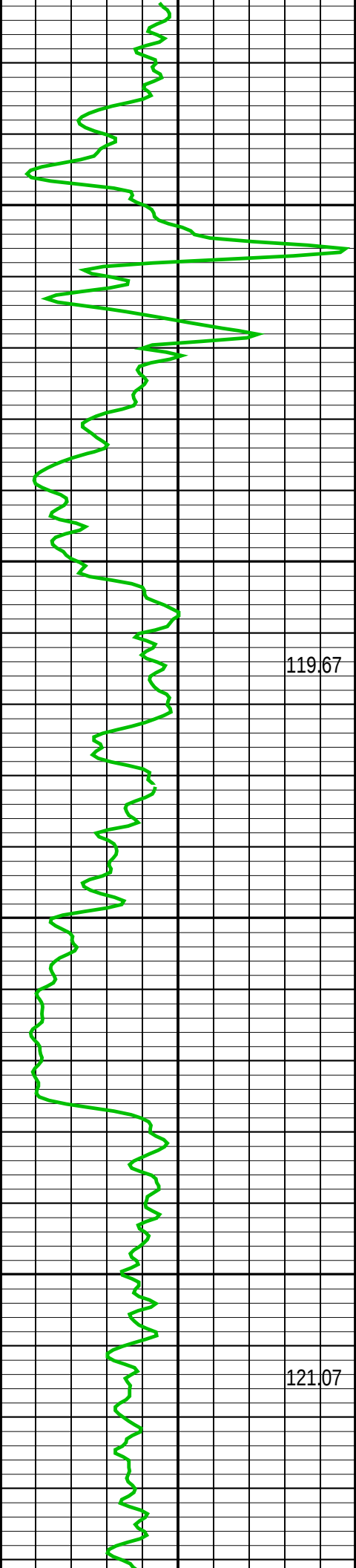


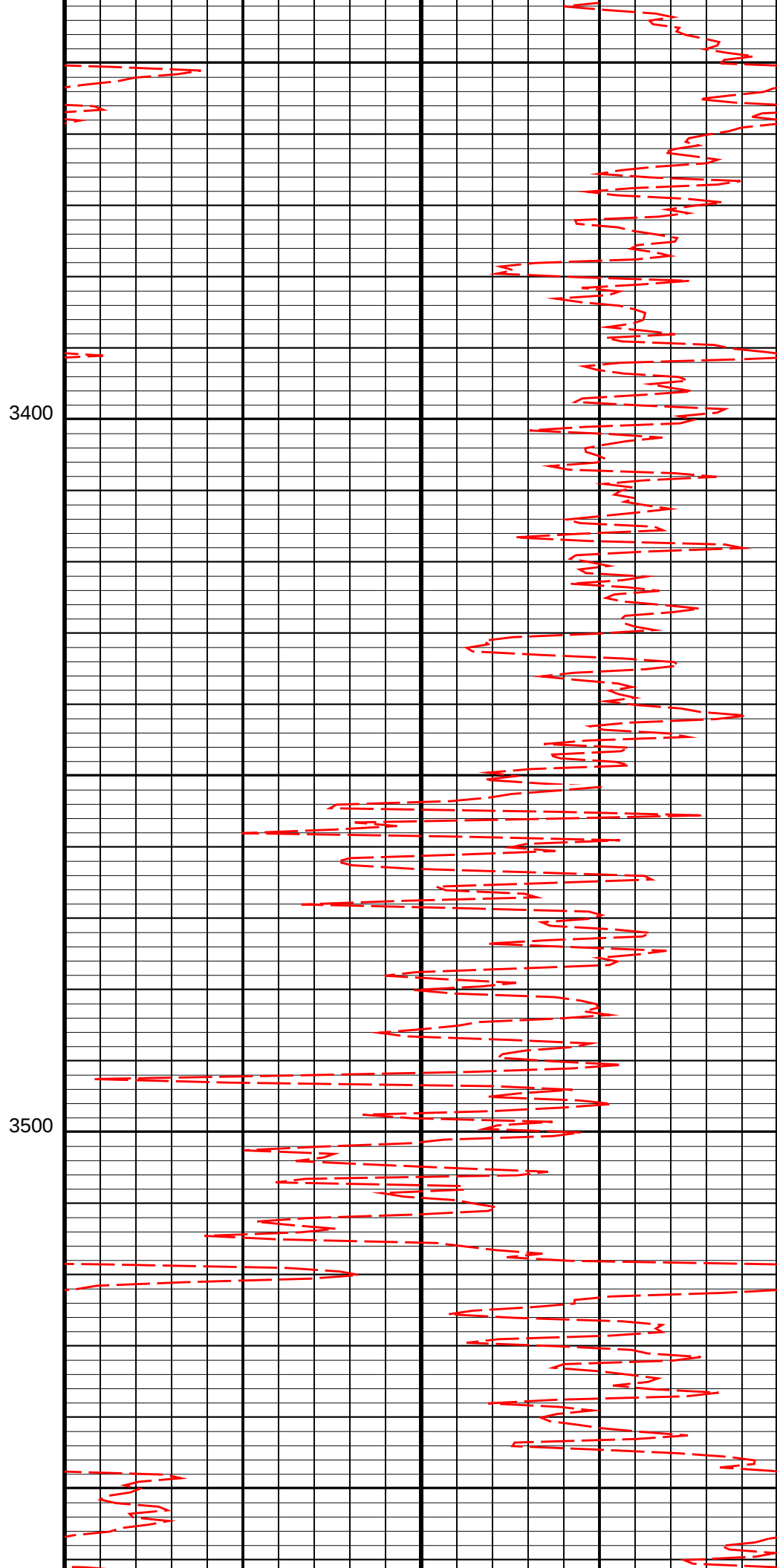
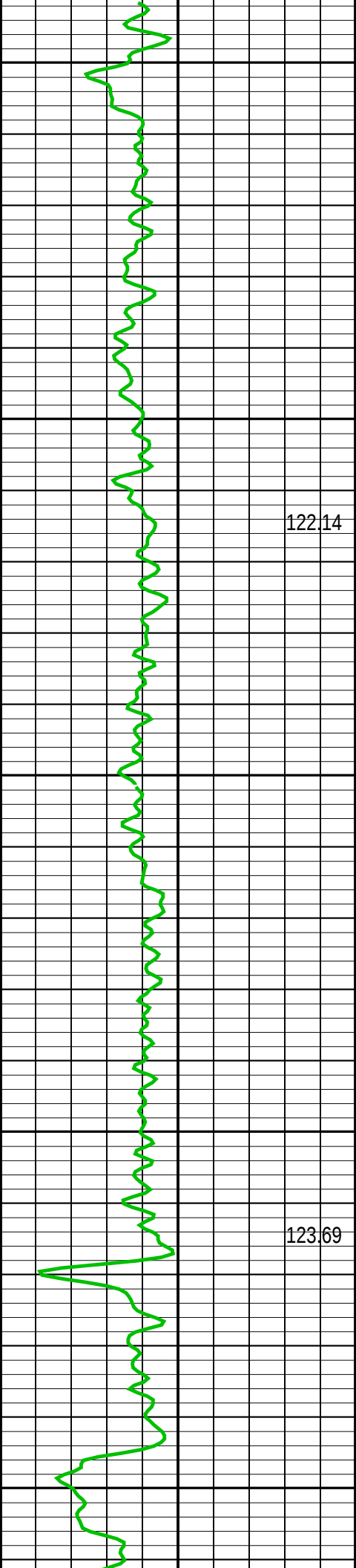
TNPH (TNPH)		
30	(%)	-10
PEF (PEF)		DRHO (DRHO)
0	(----	-0.5
10		0.5
DPHI (DPHI)		
30	(PU)	-10

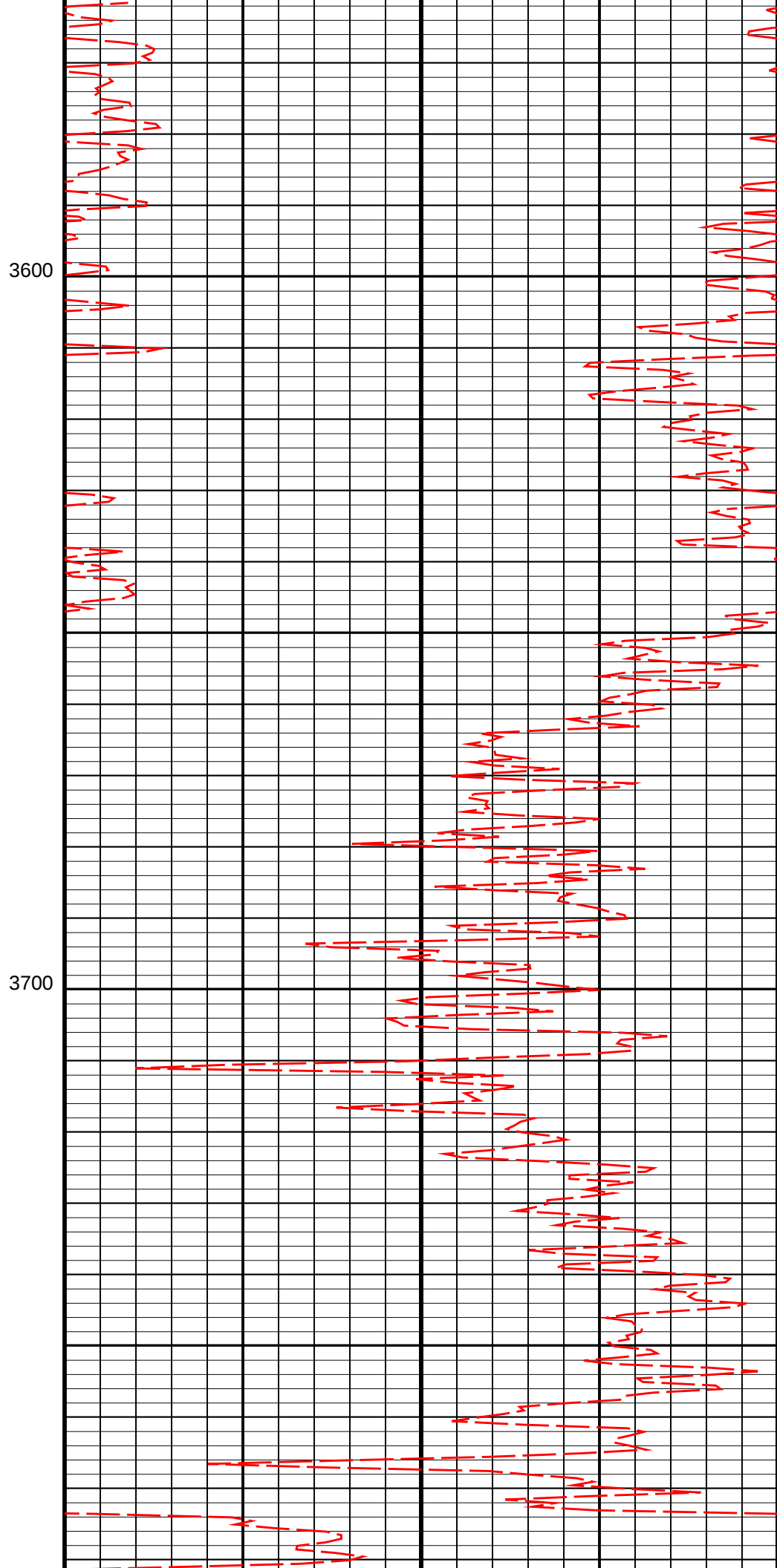
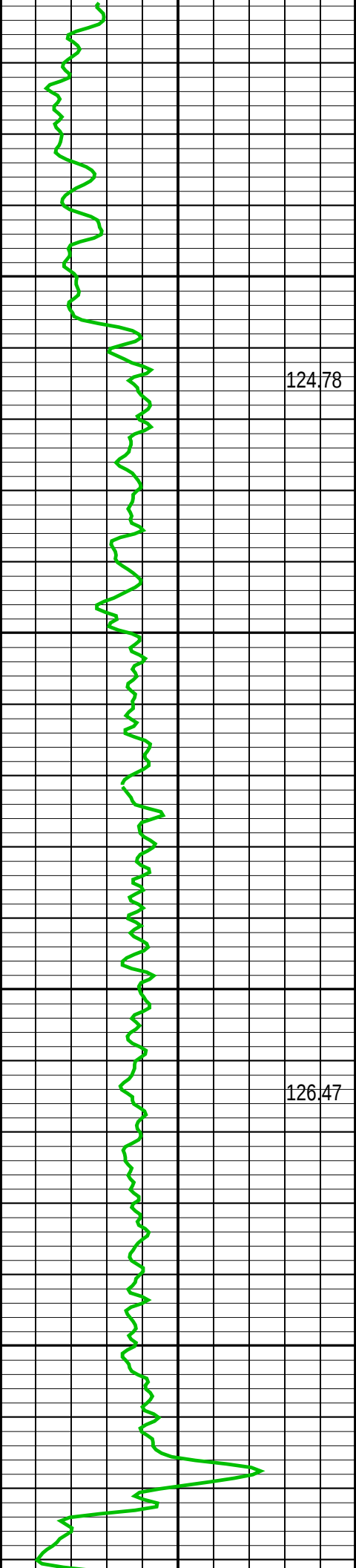


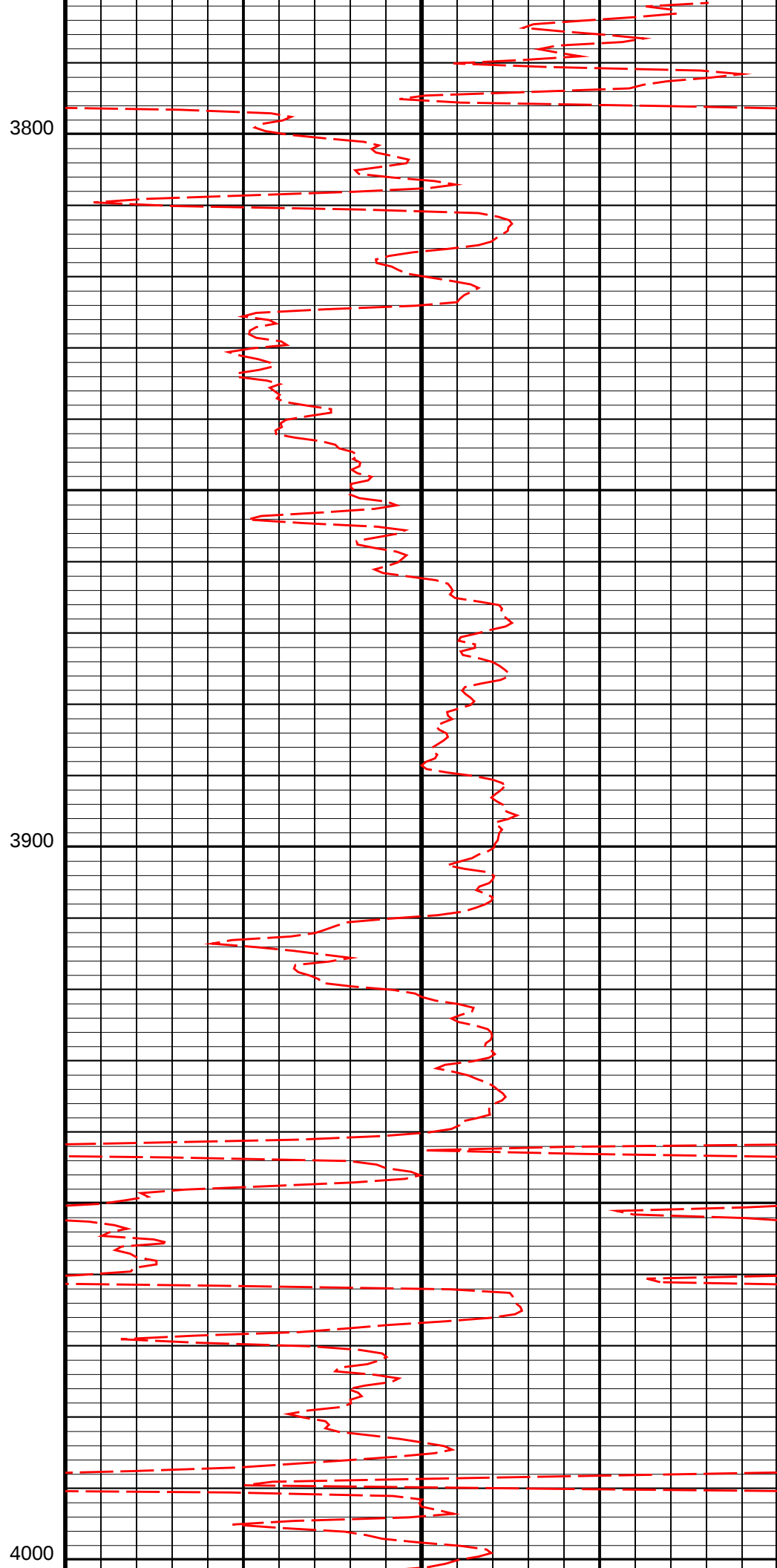
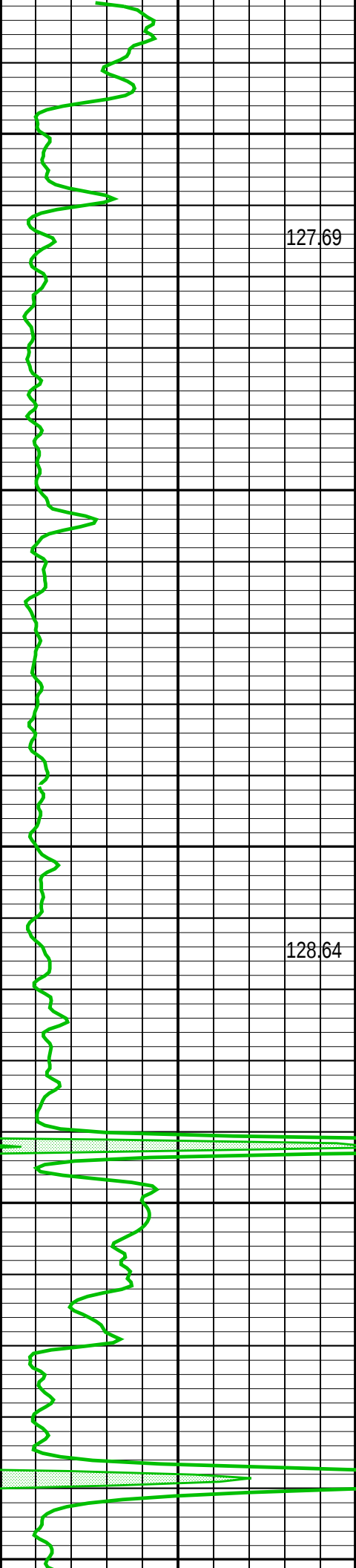


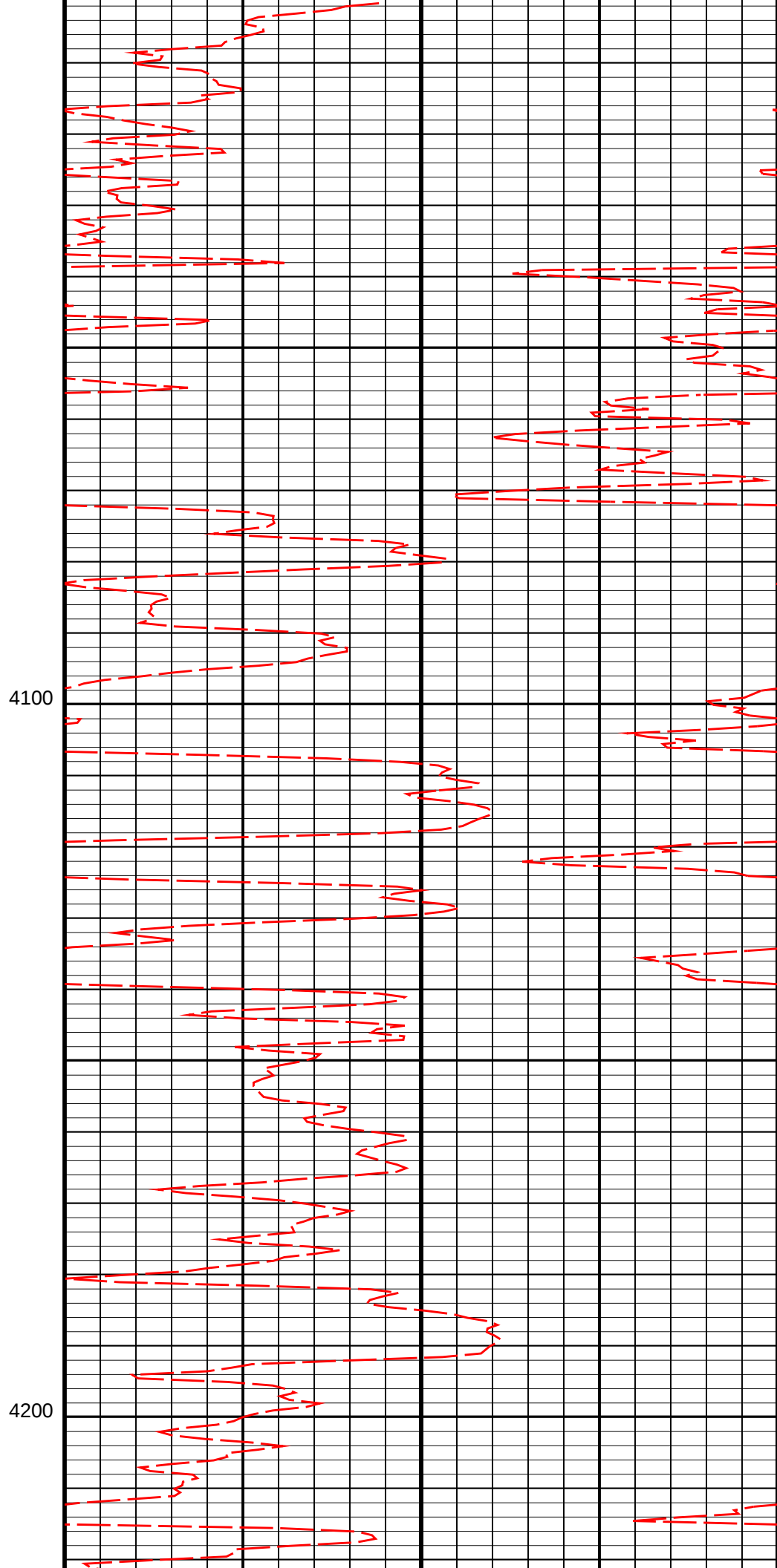
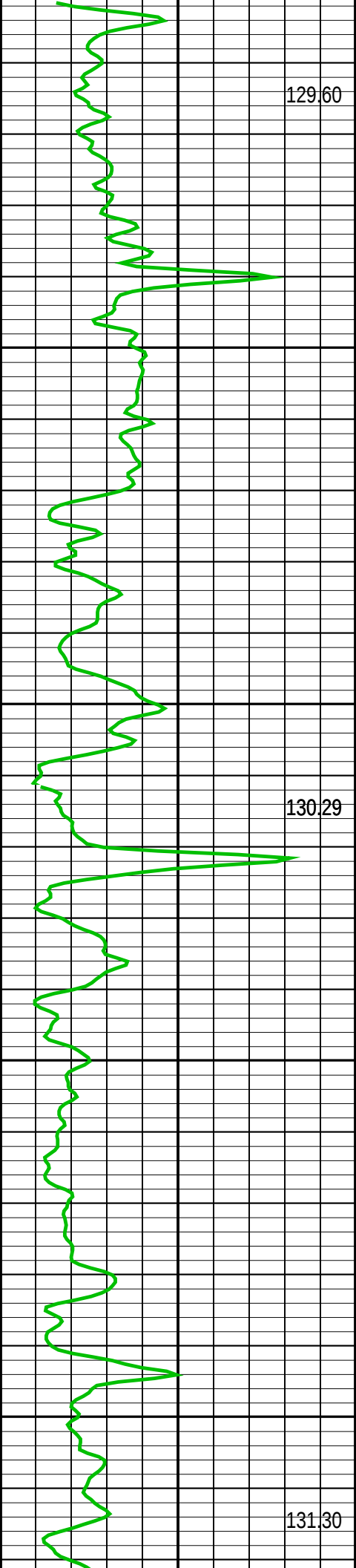


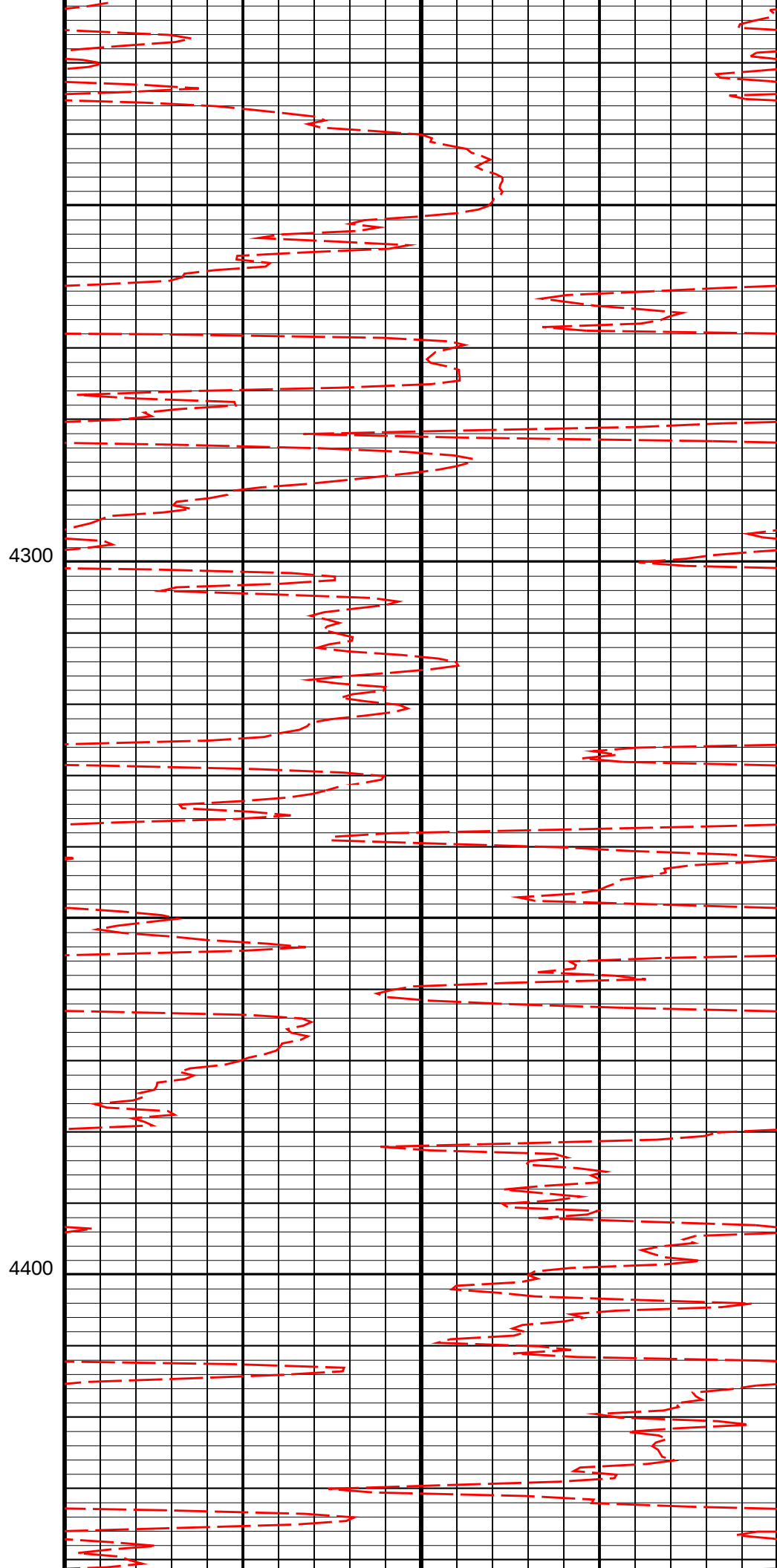
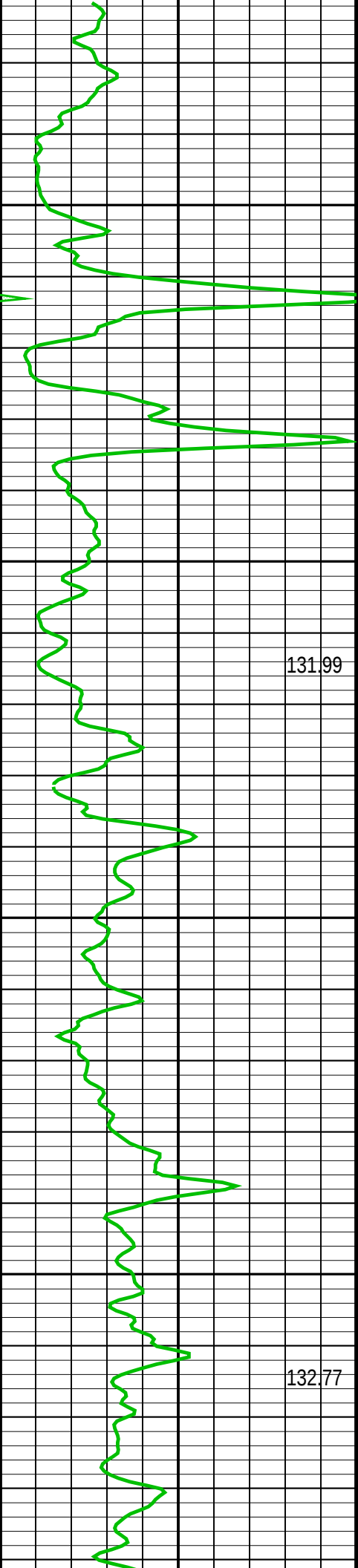


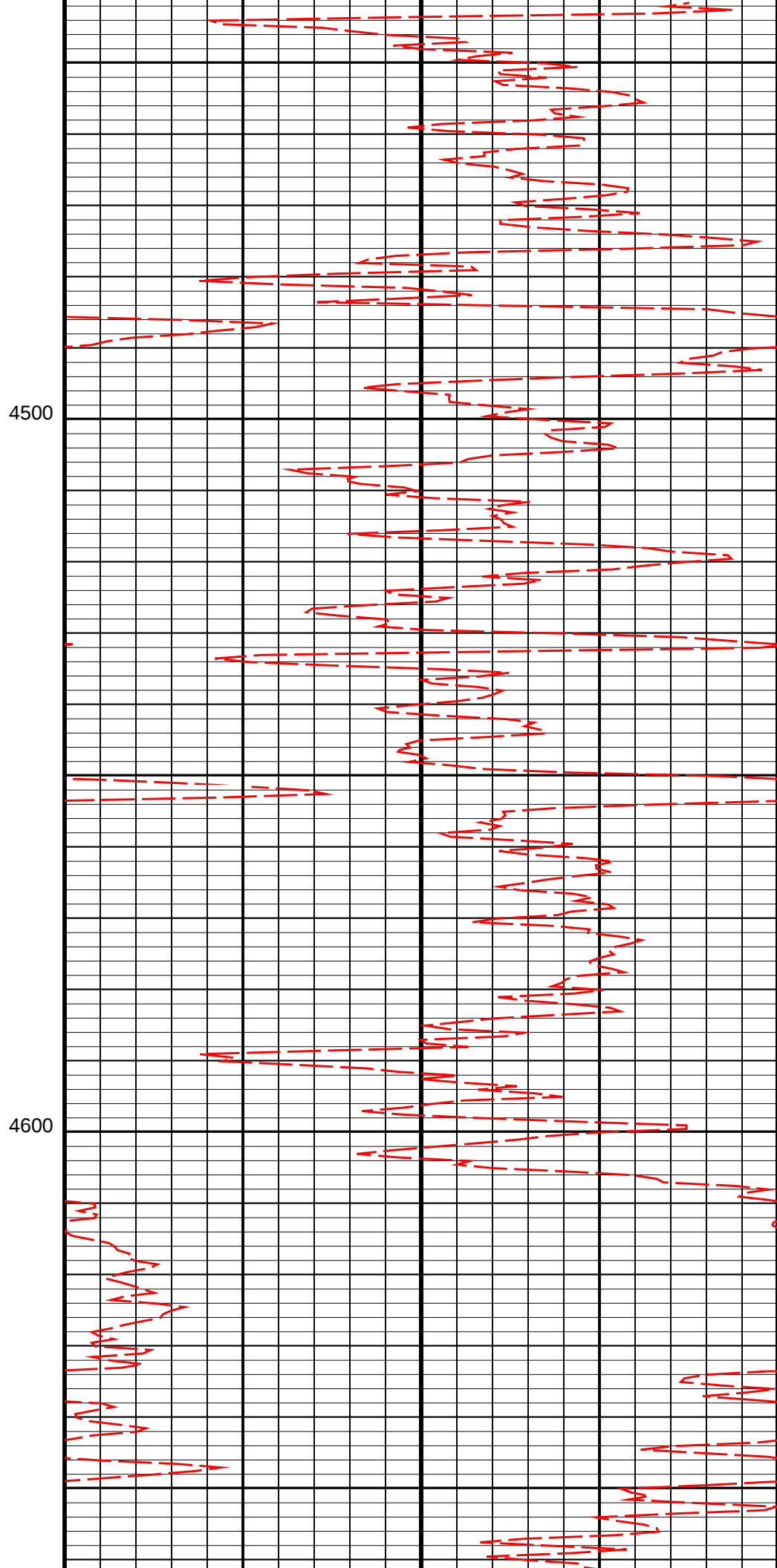
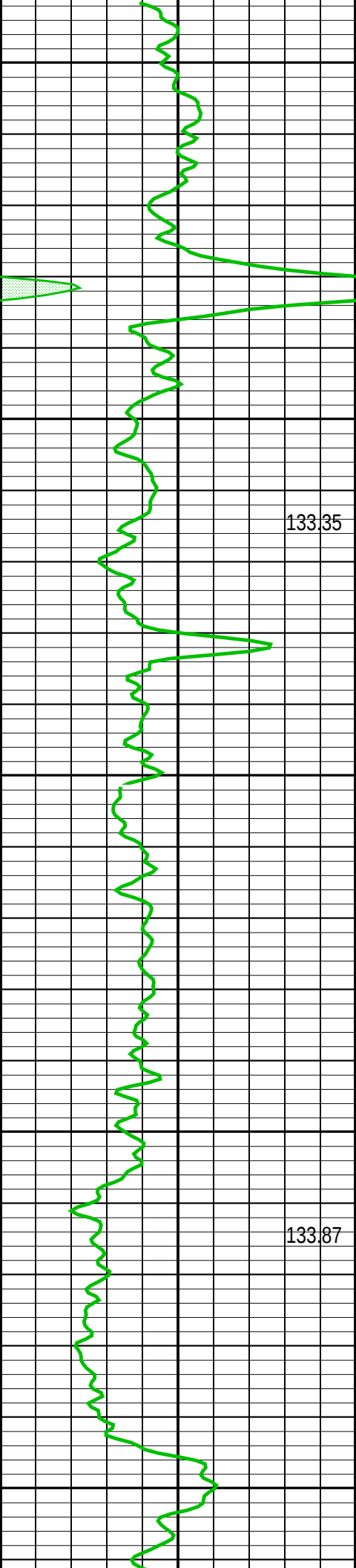


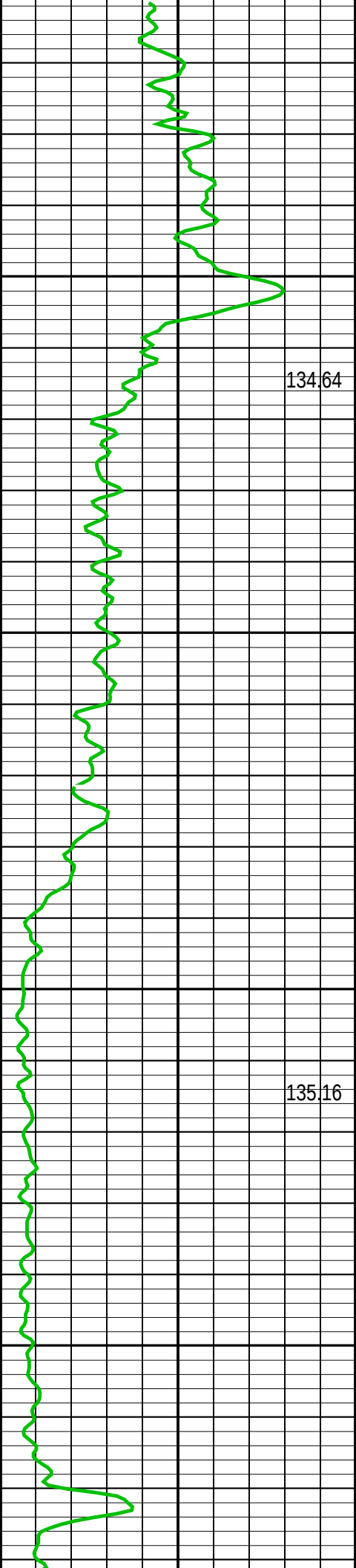








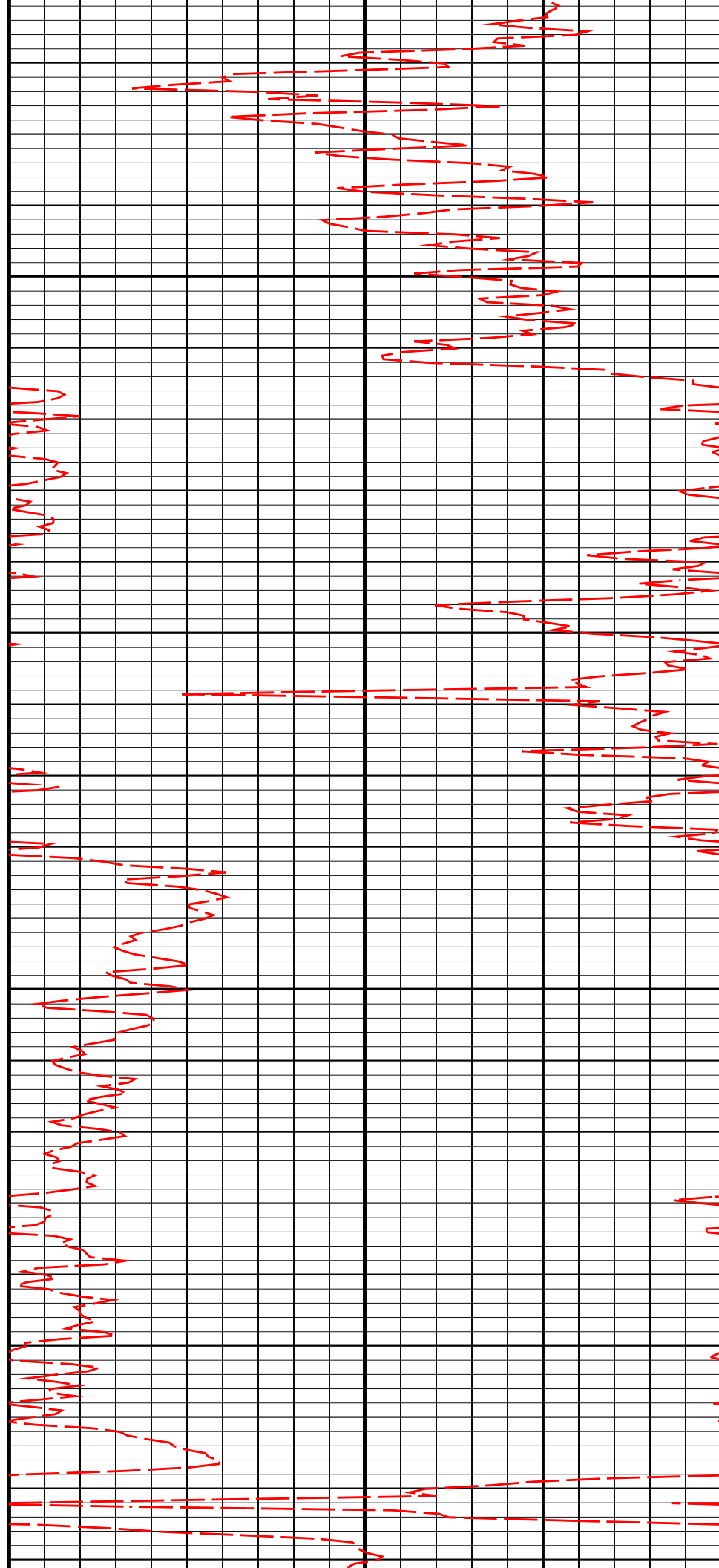


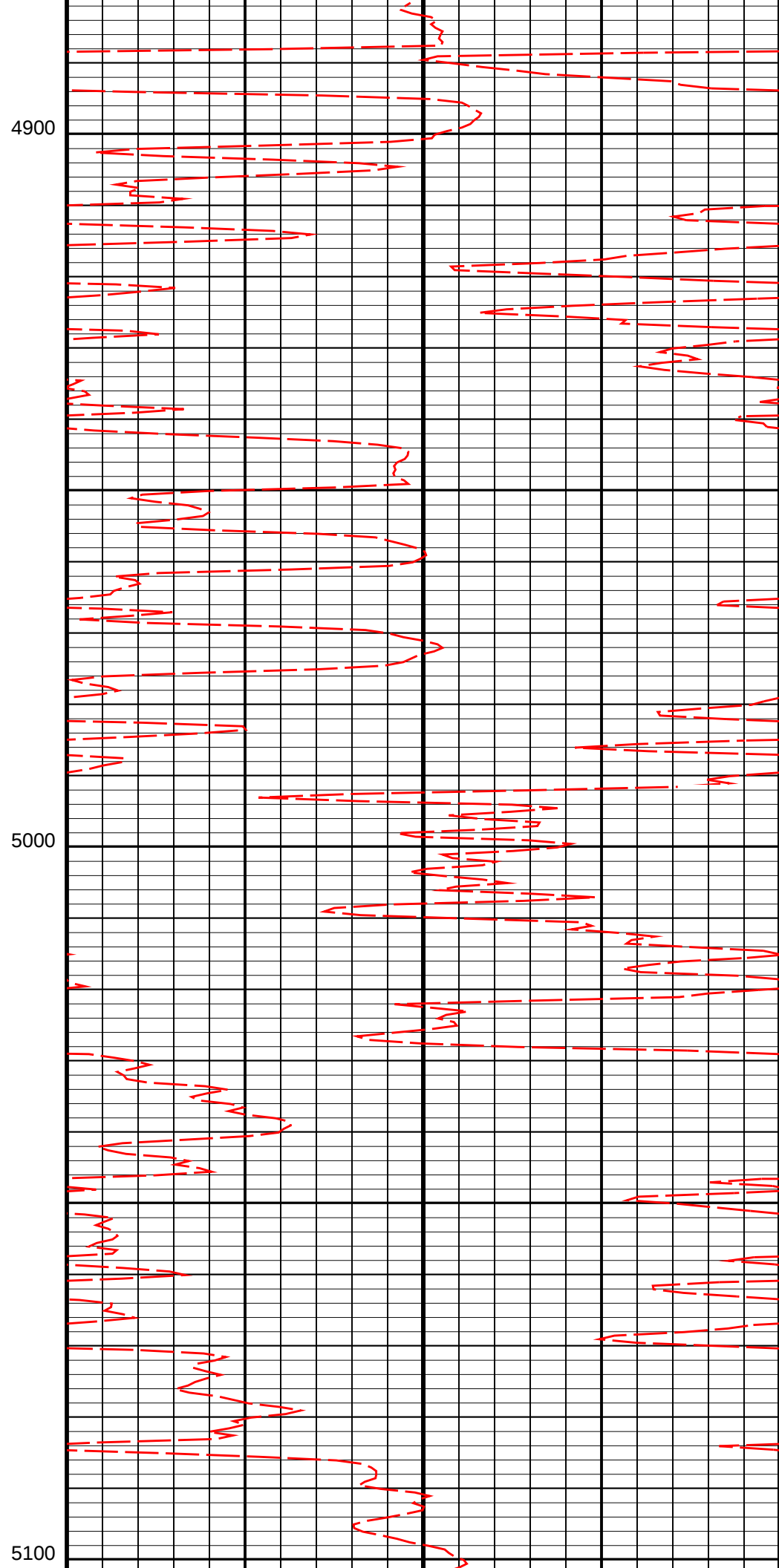
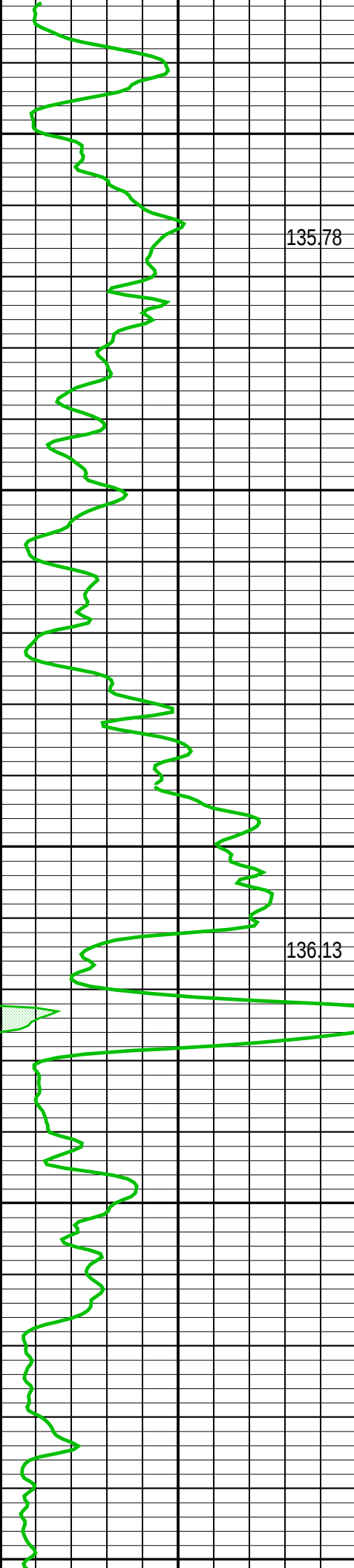


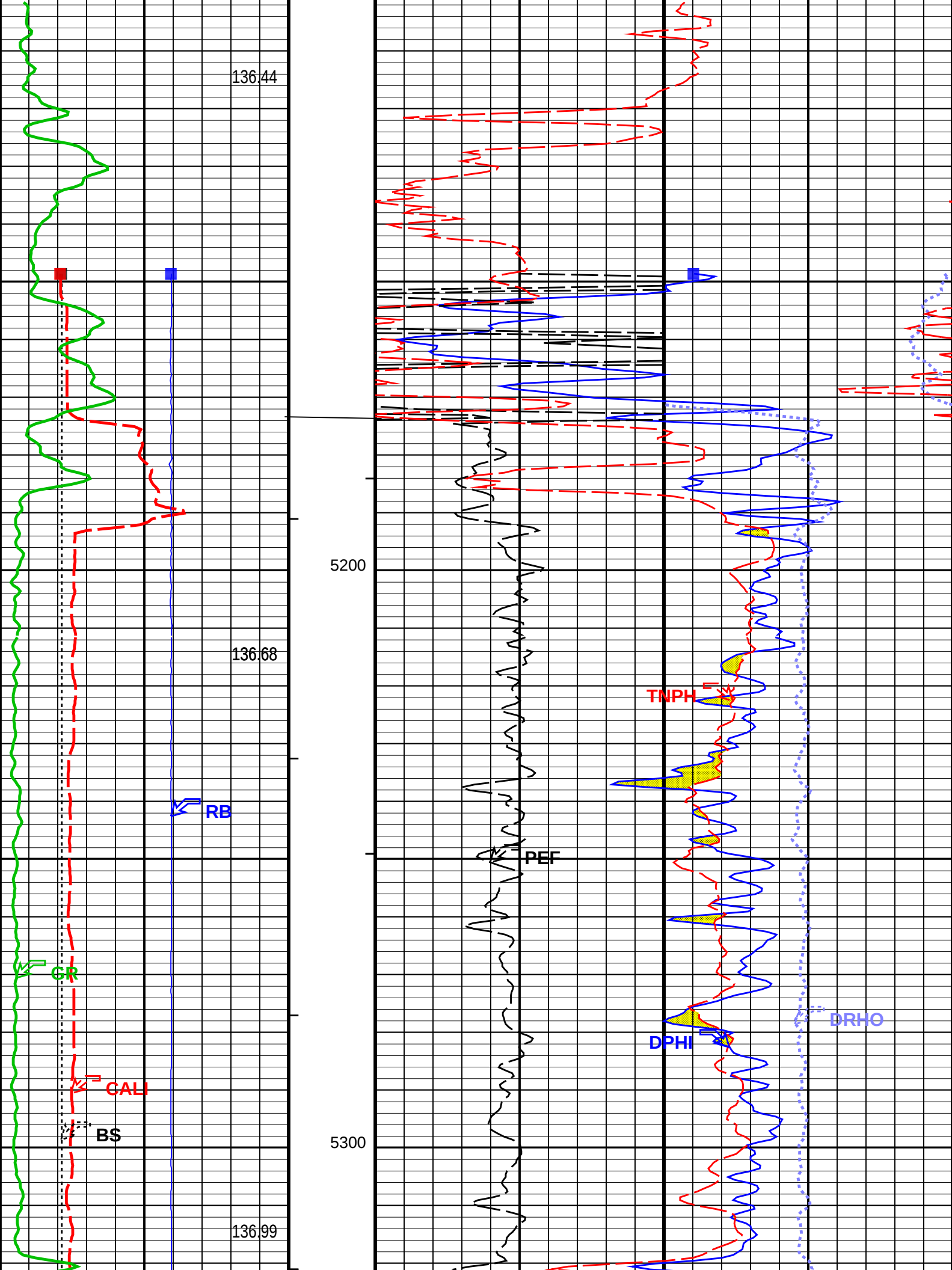
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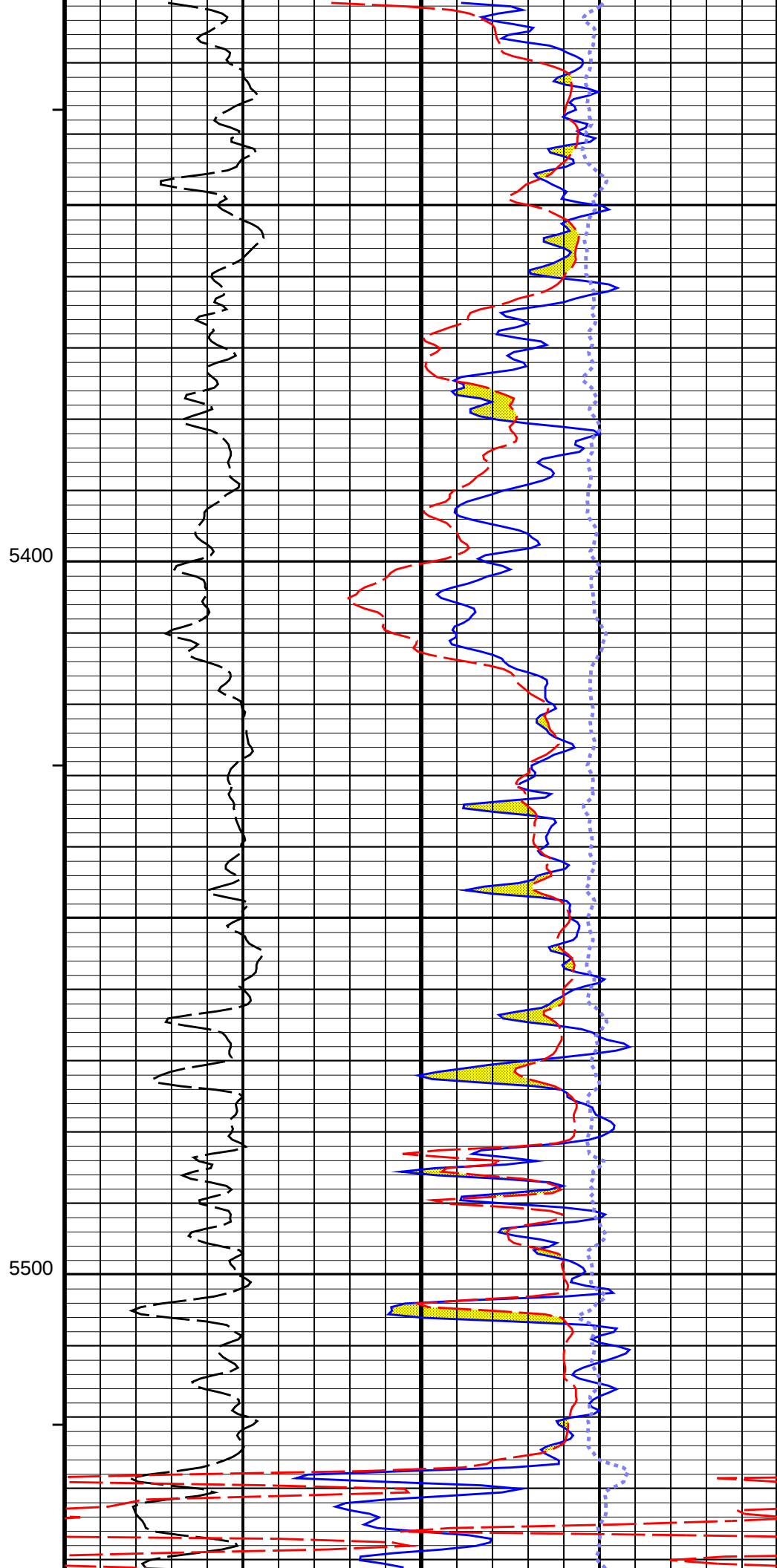
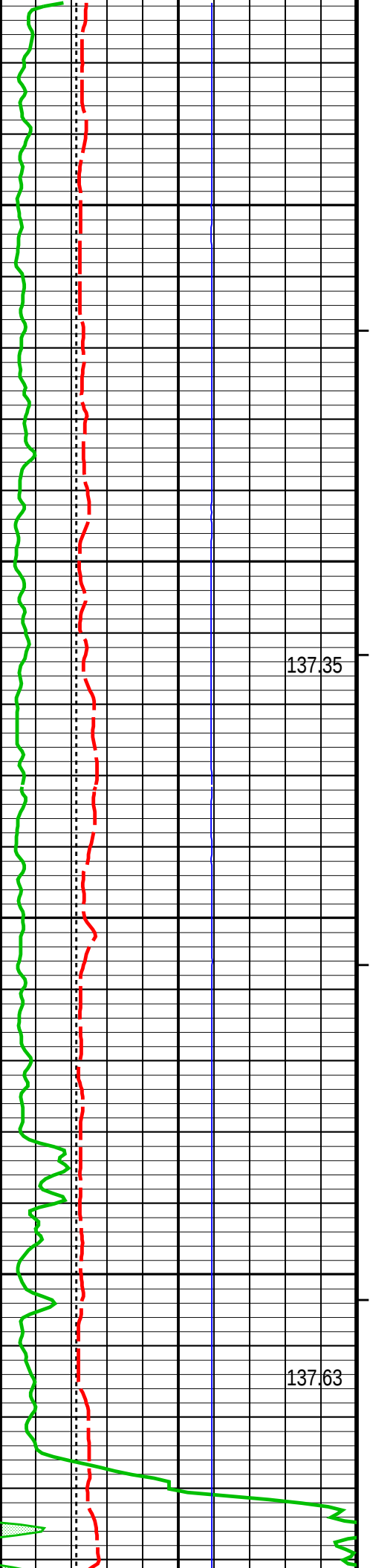
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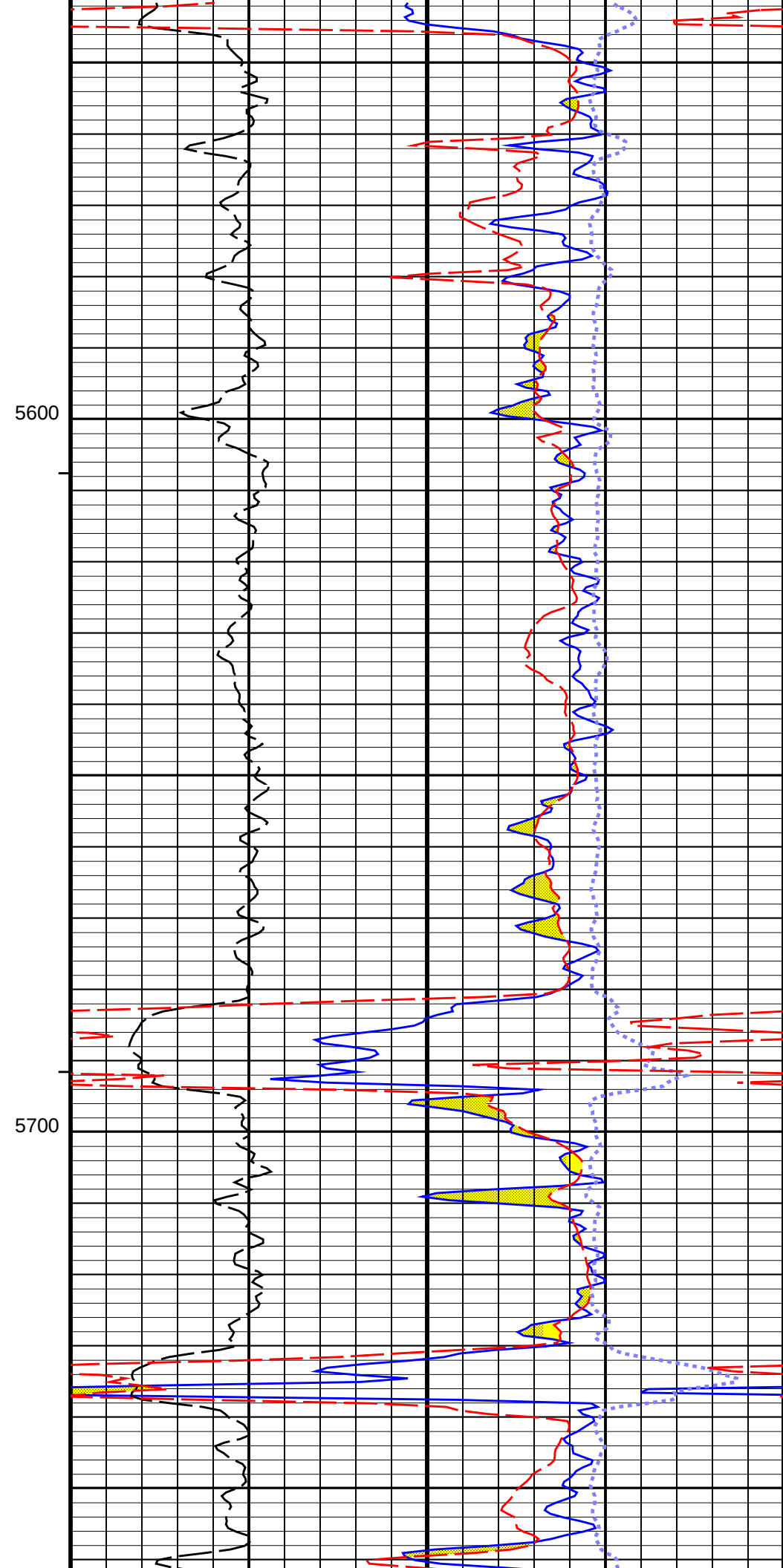
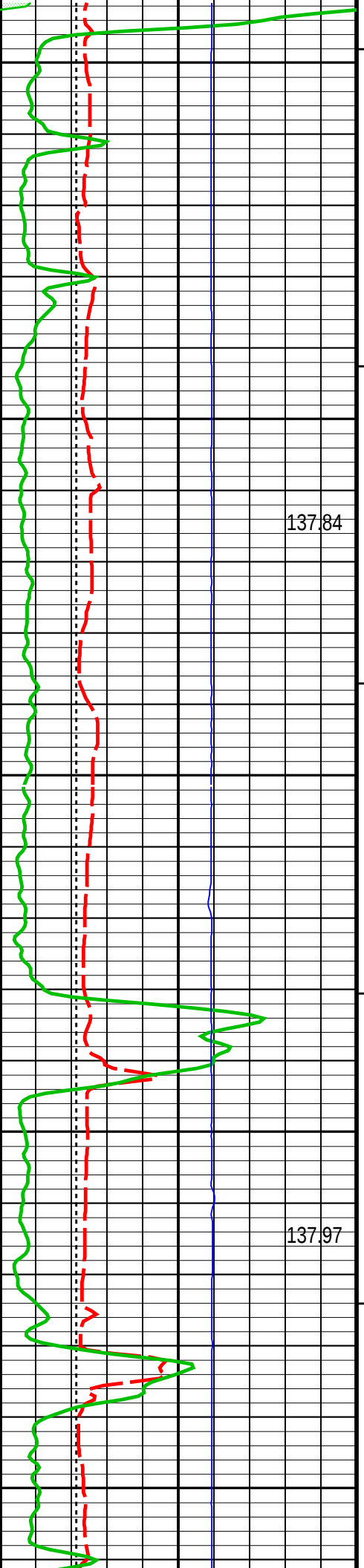
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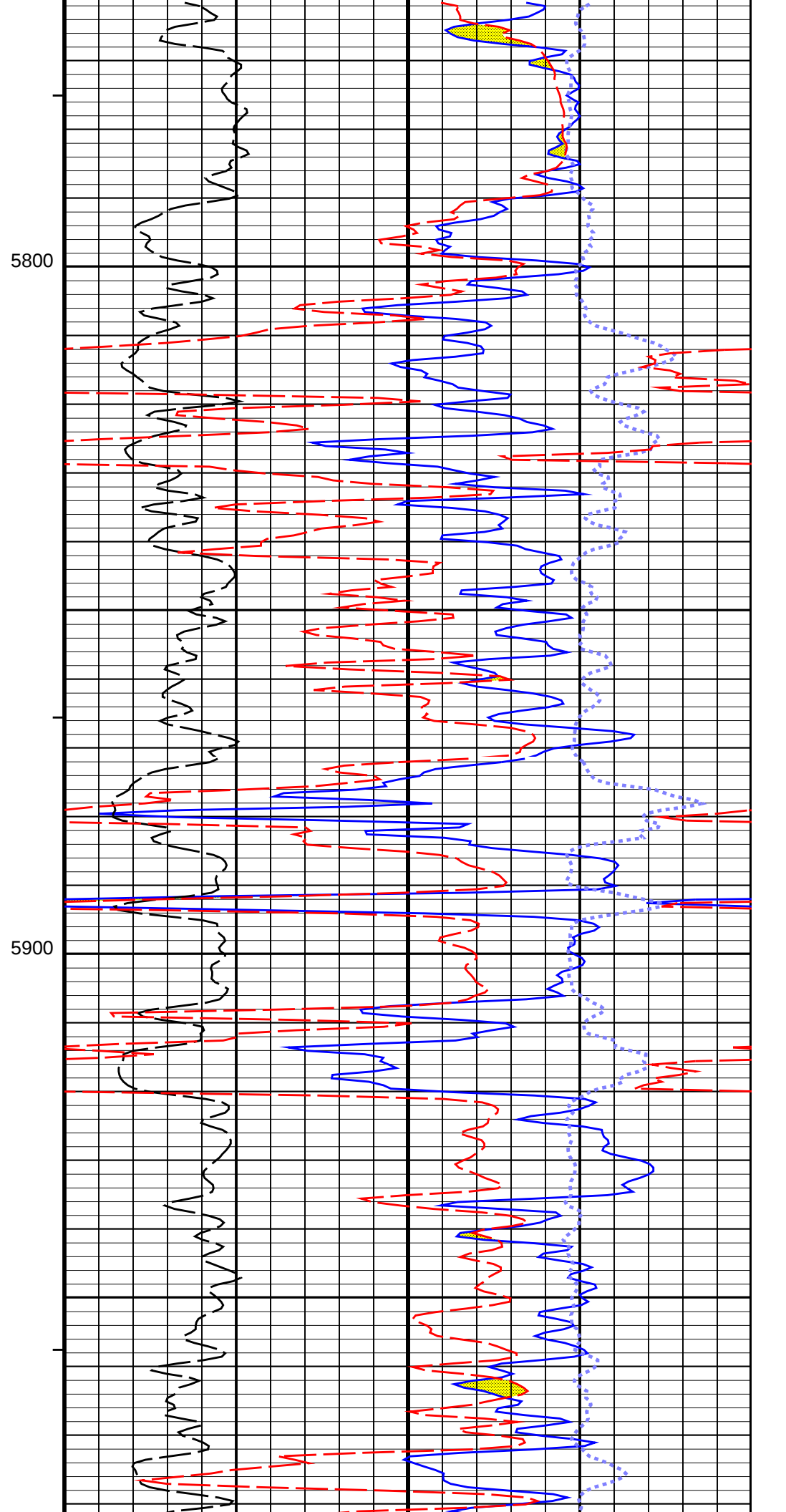
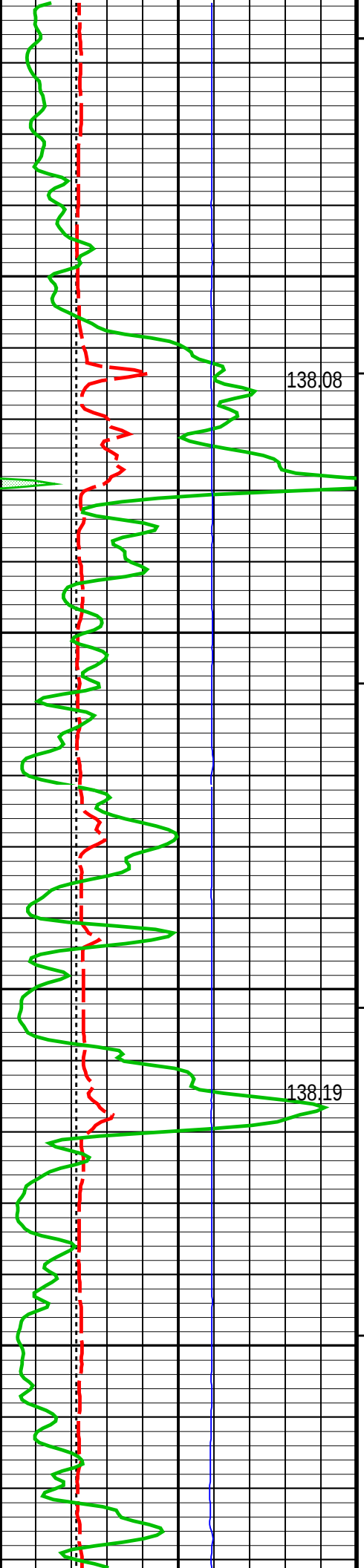


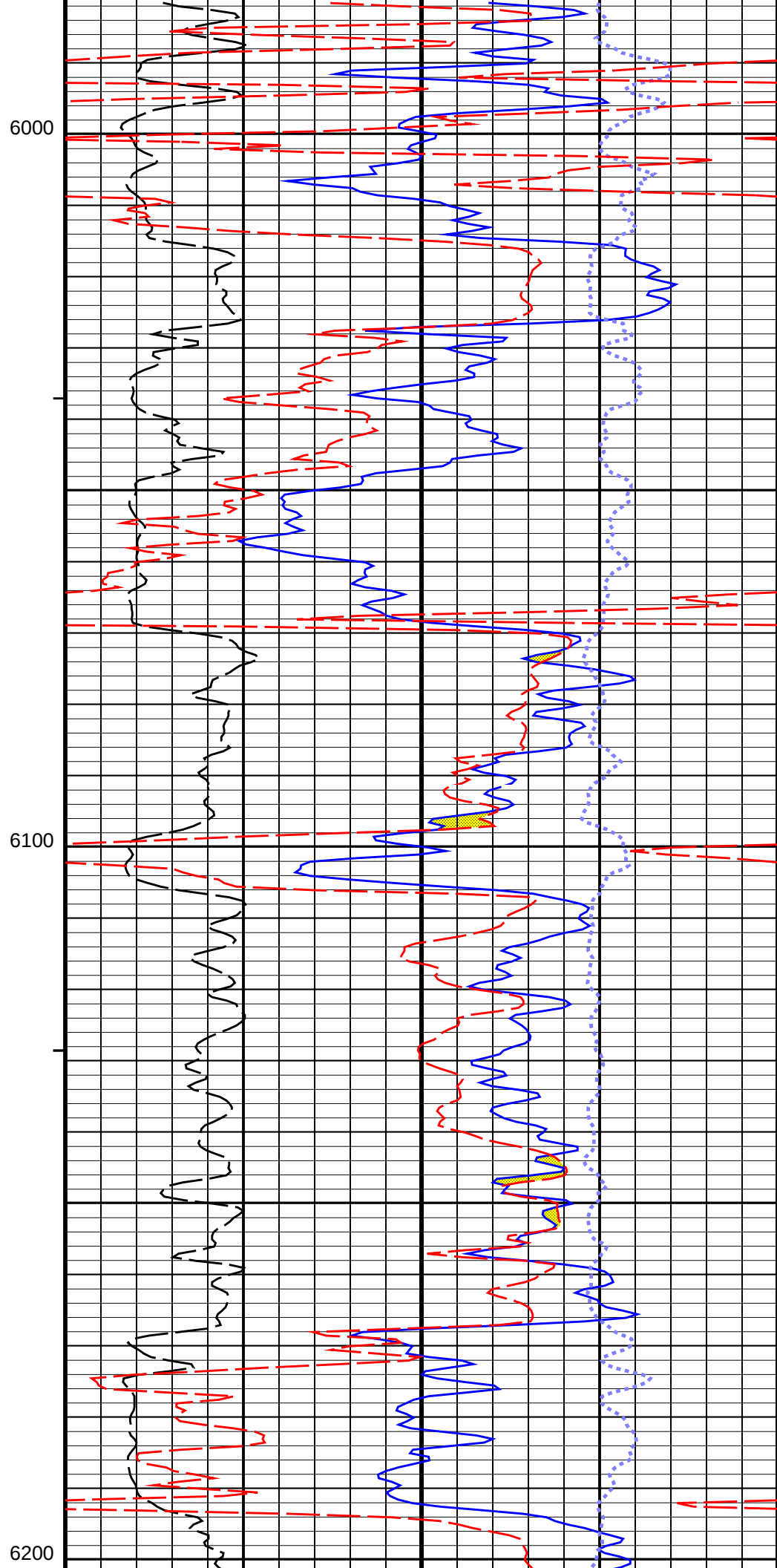
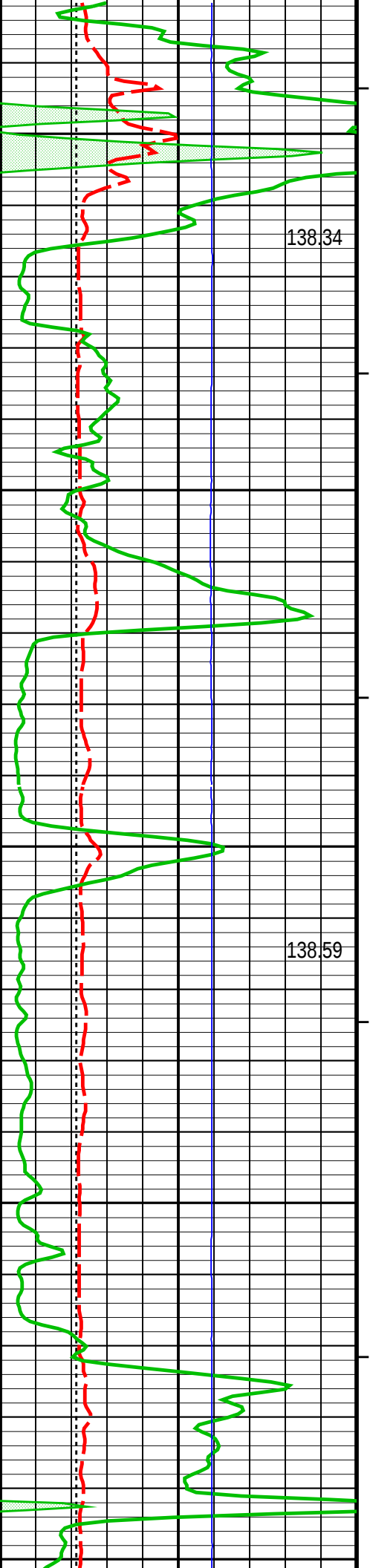


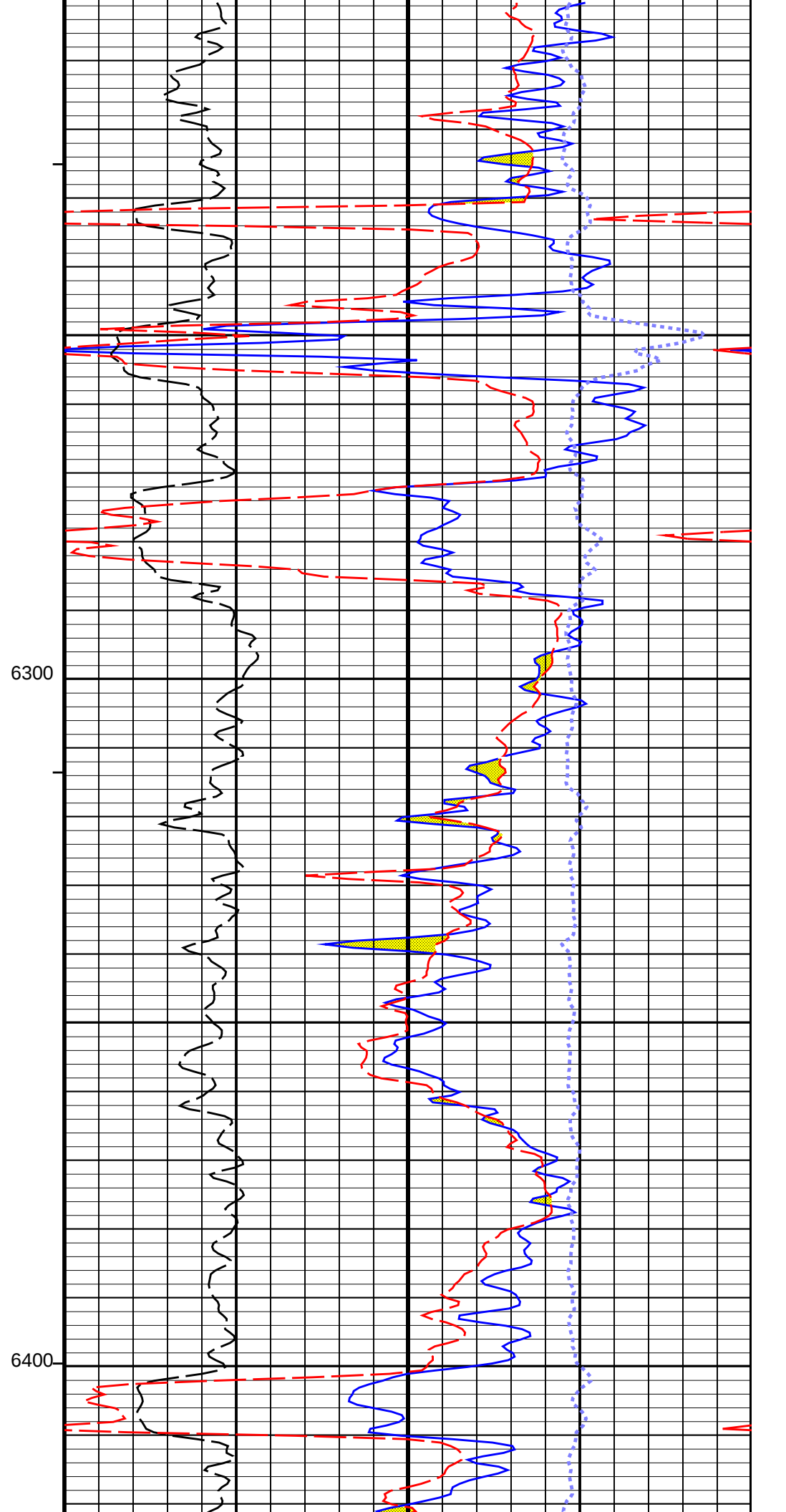
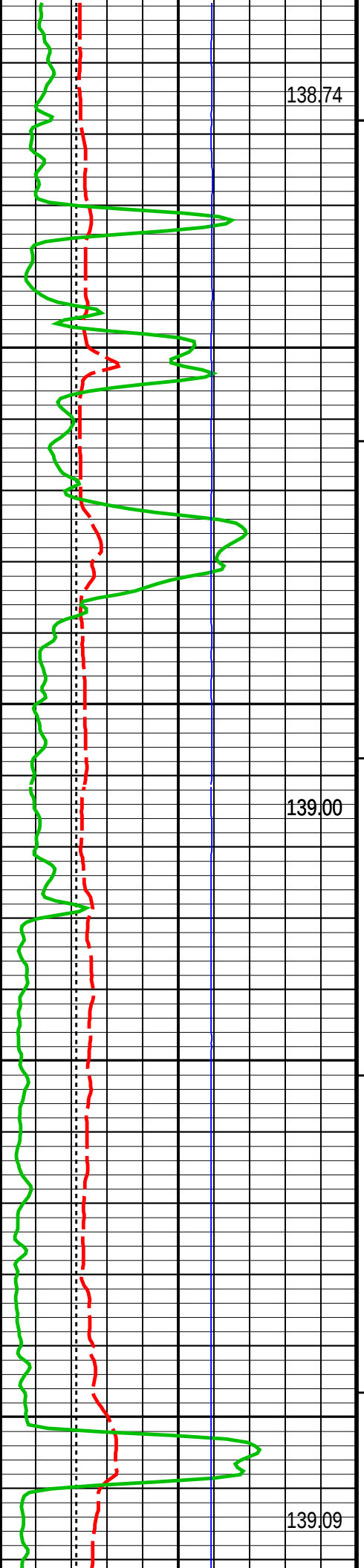


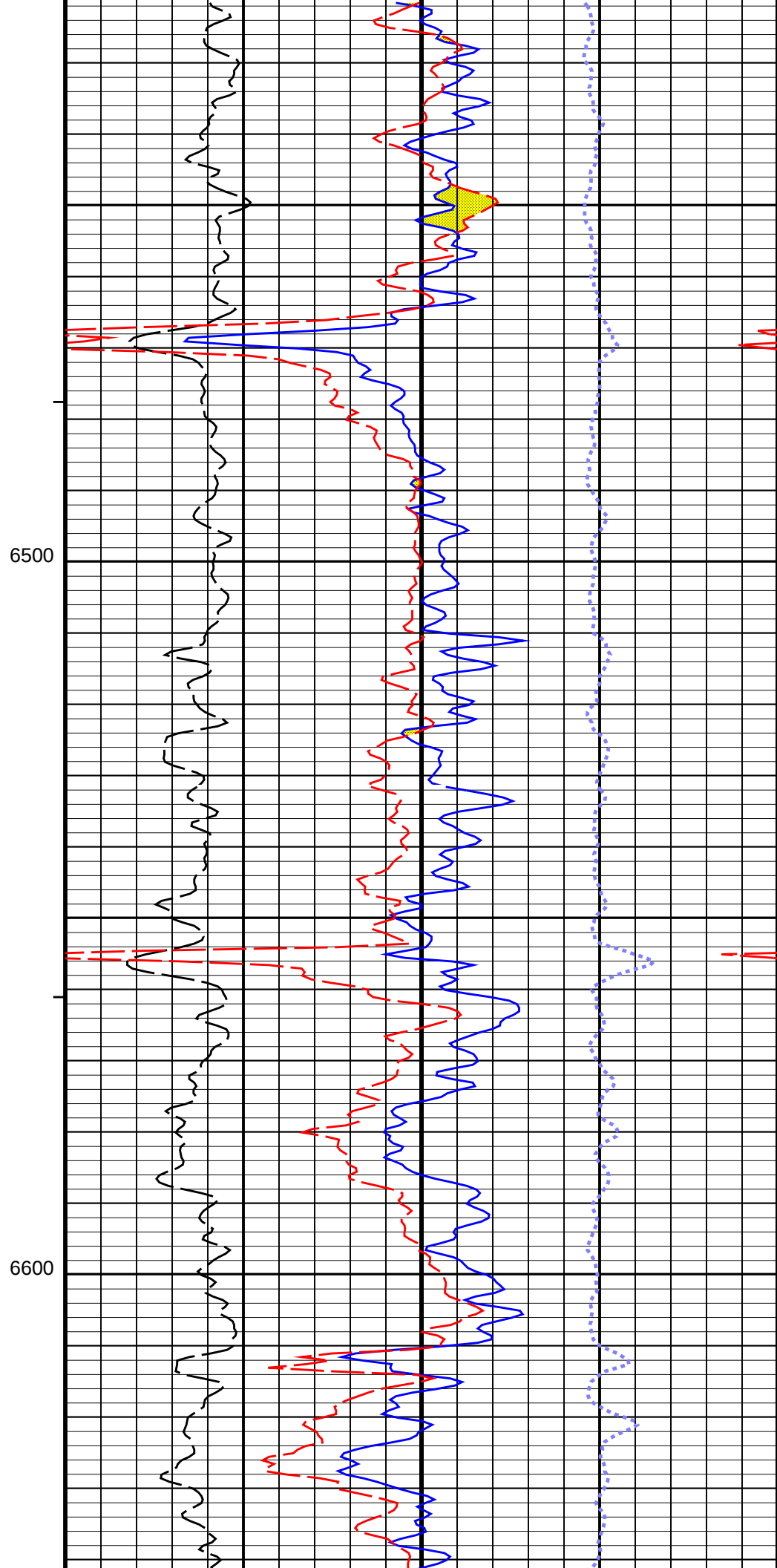
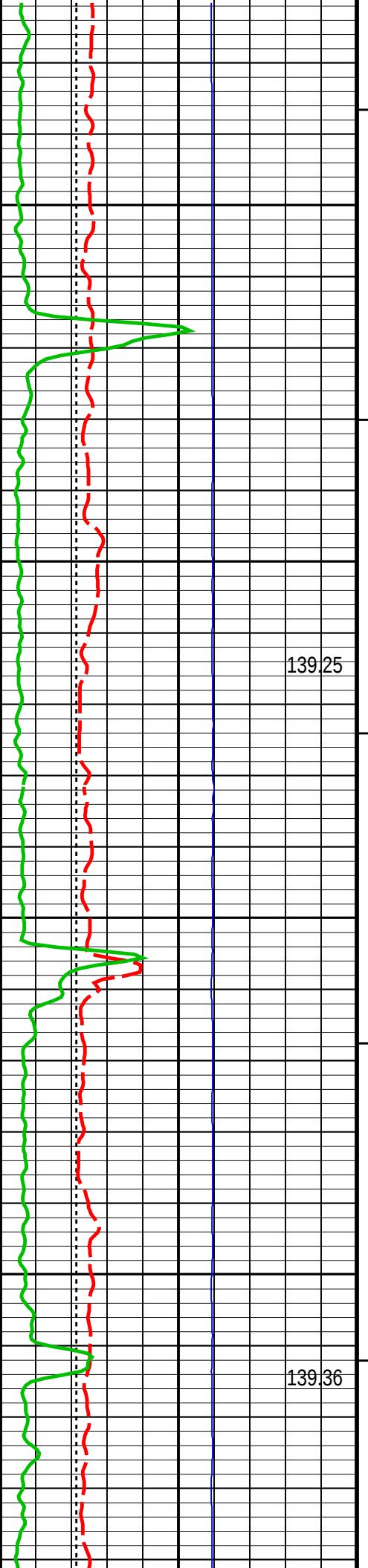


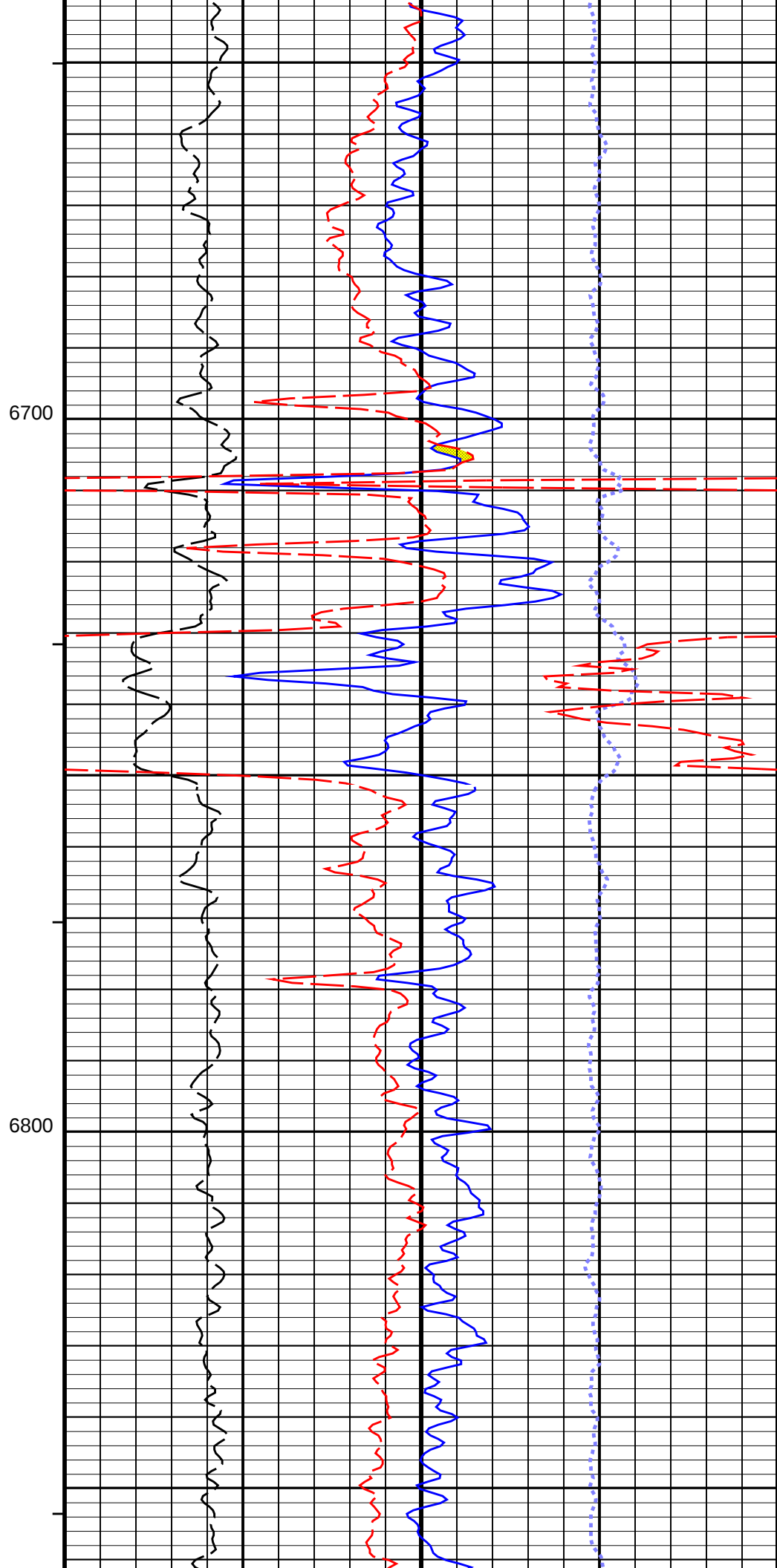
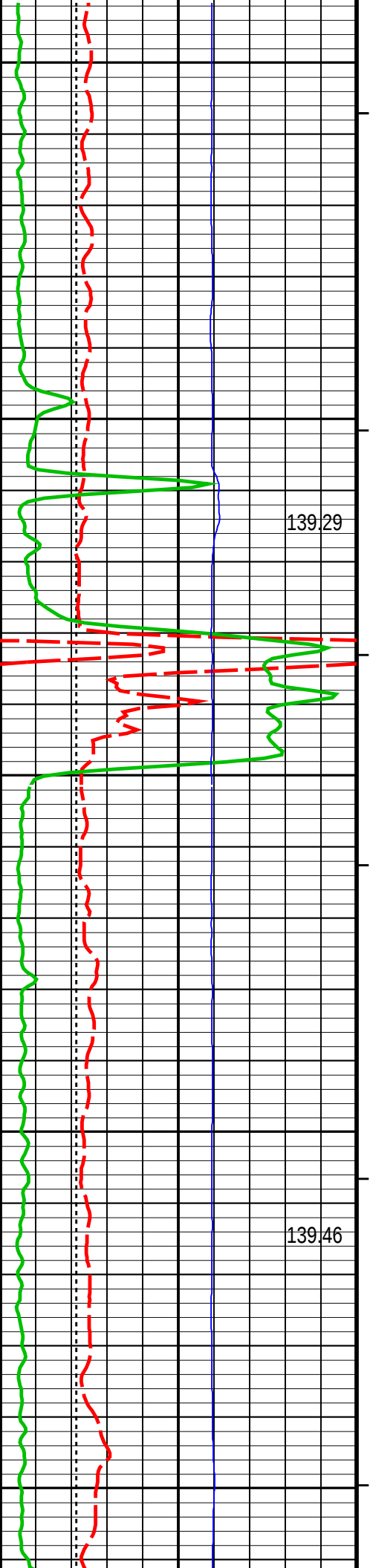


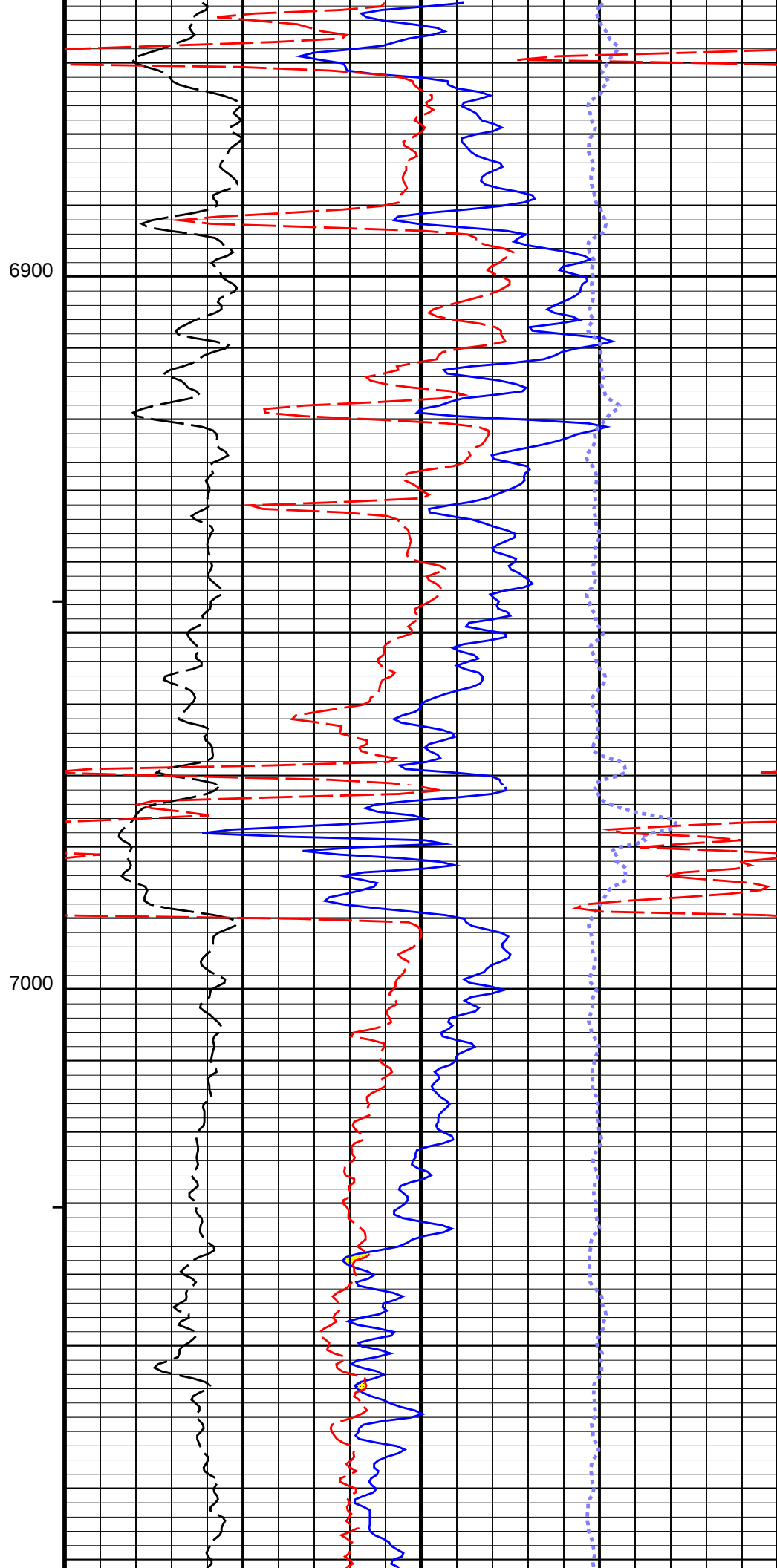
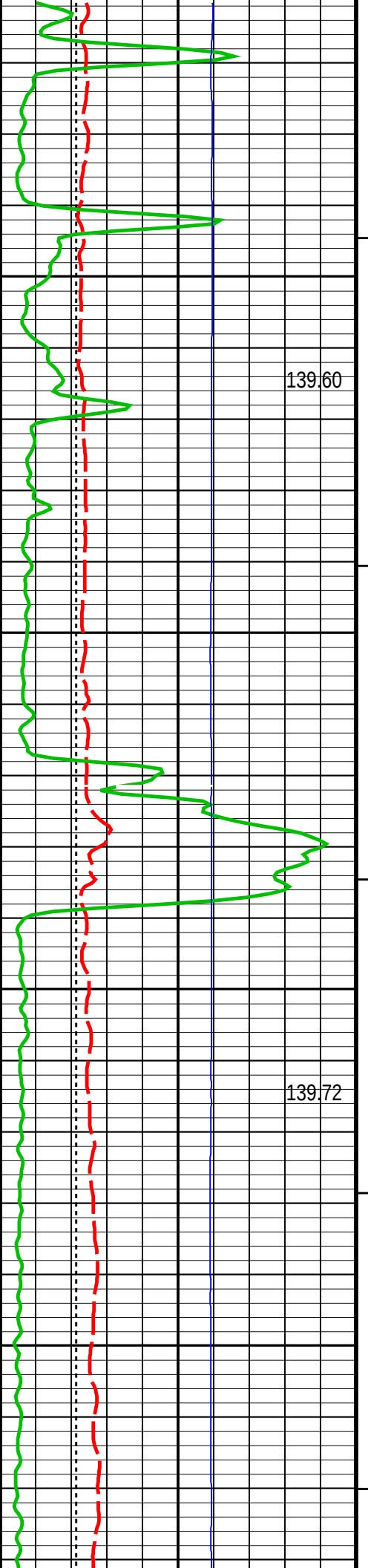


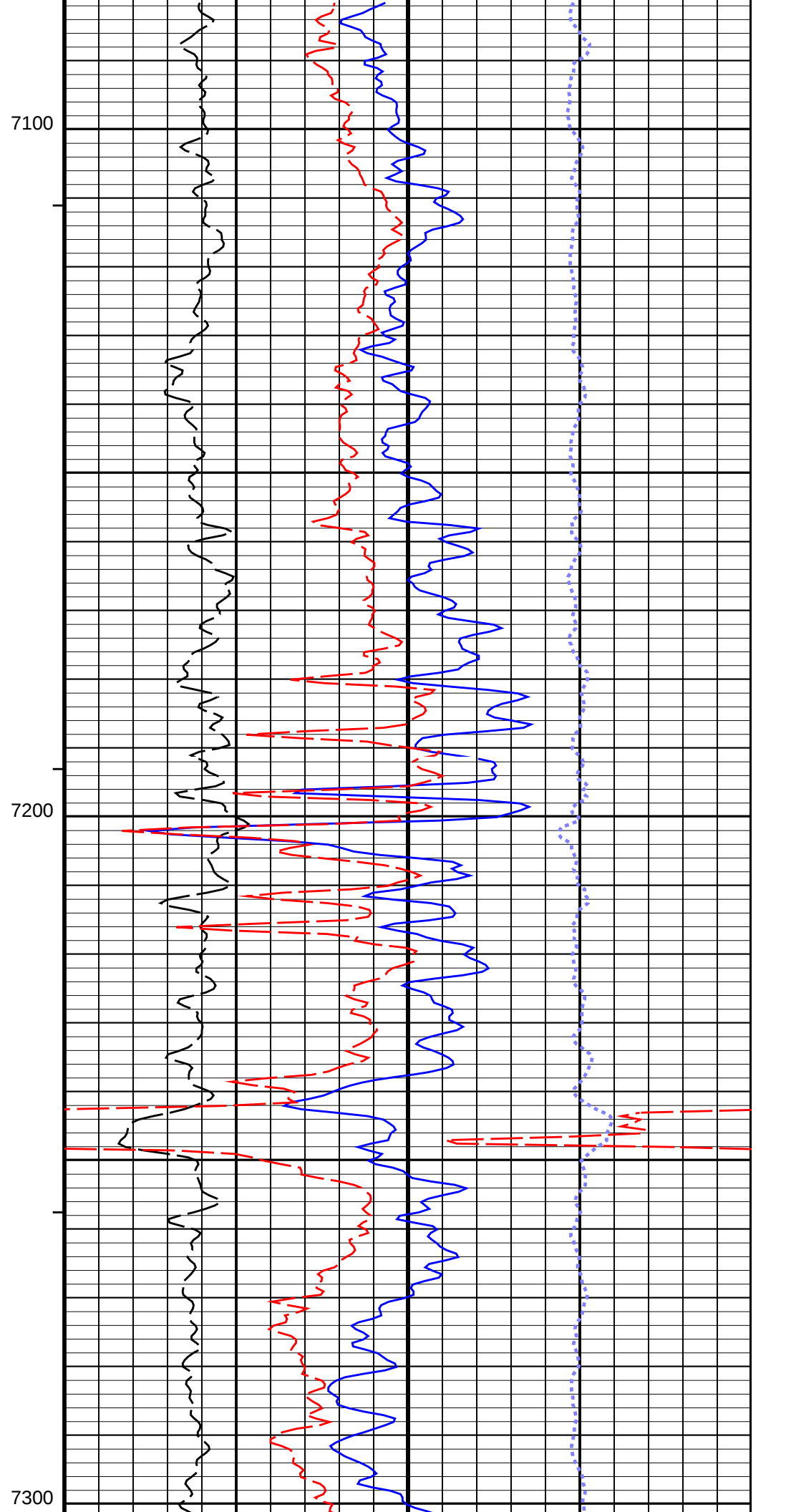
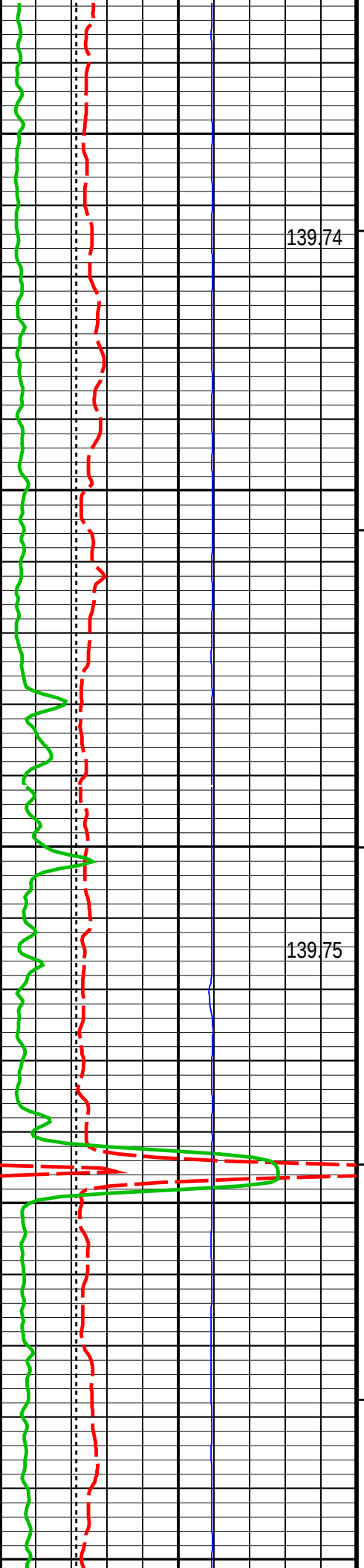


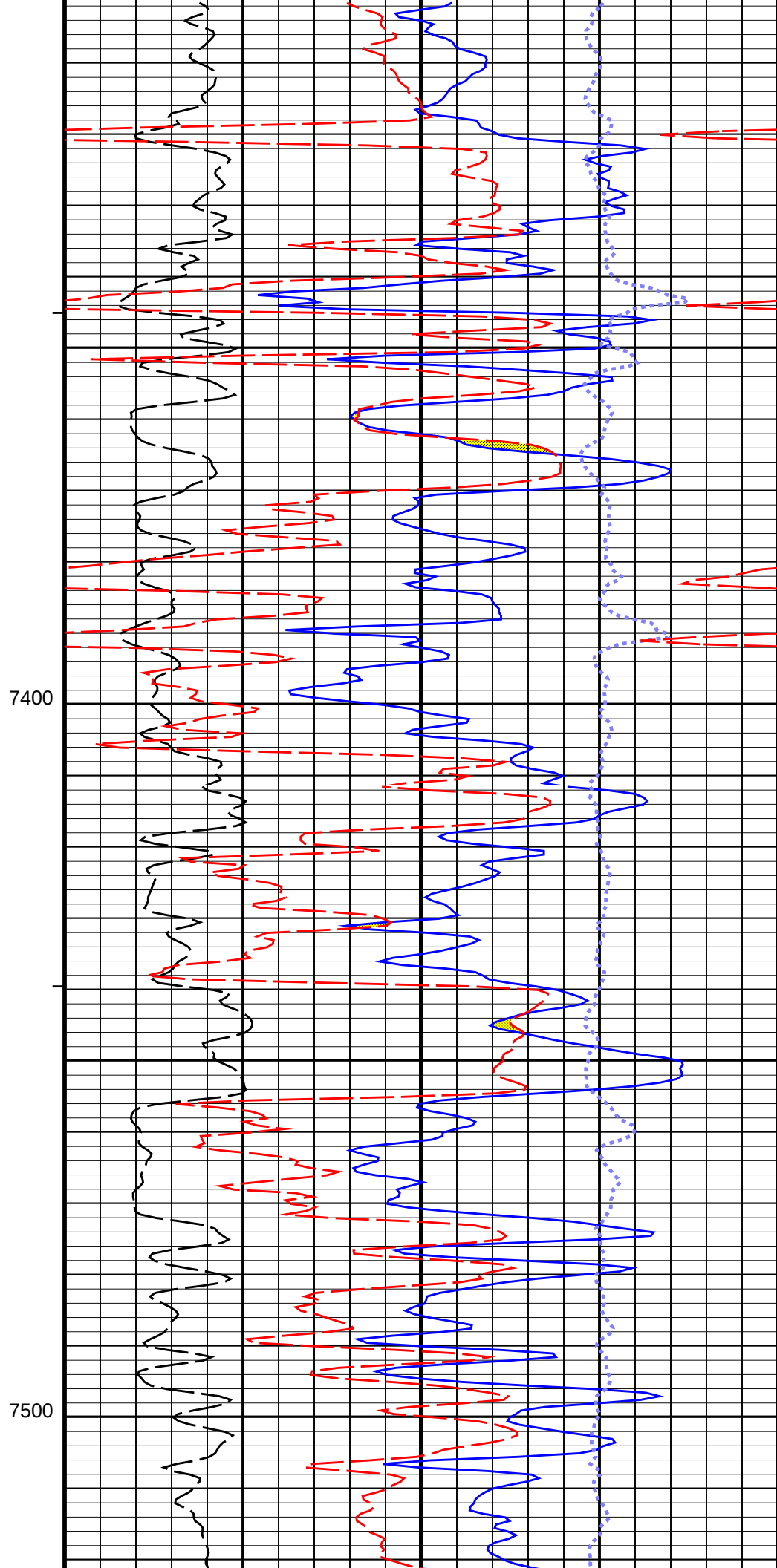
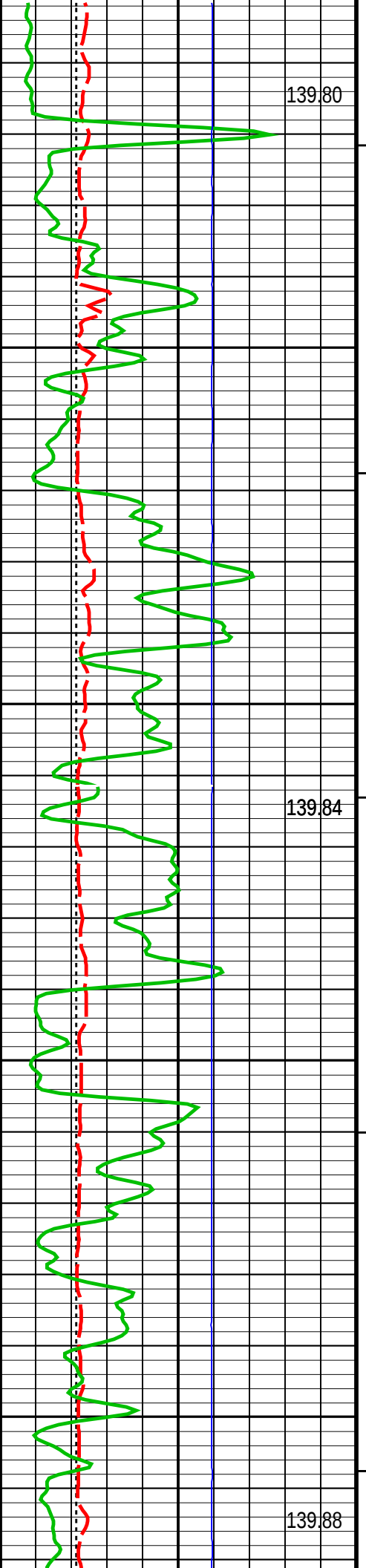


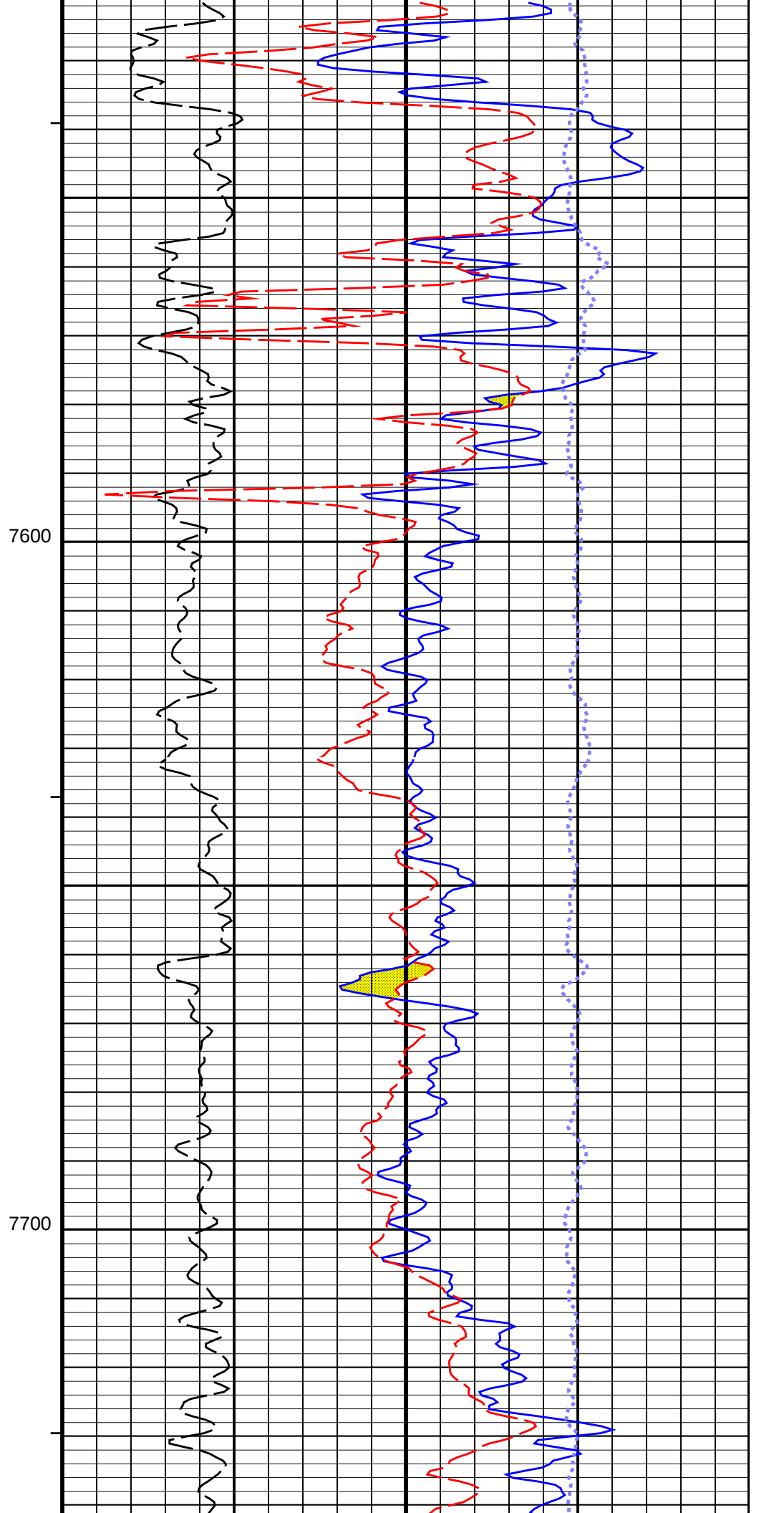
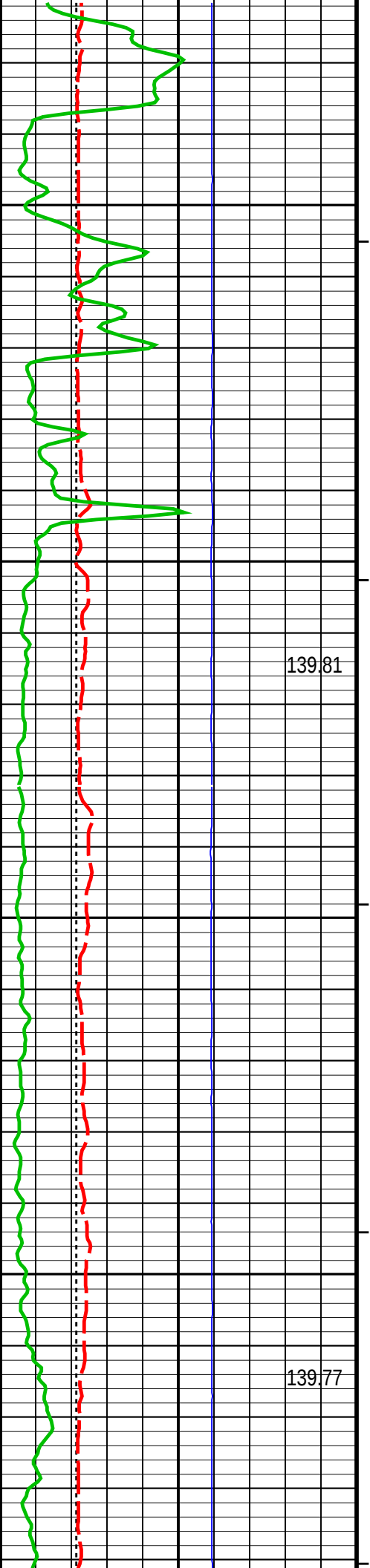


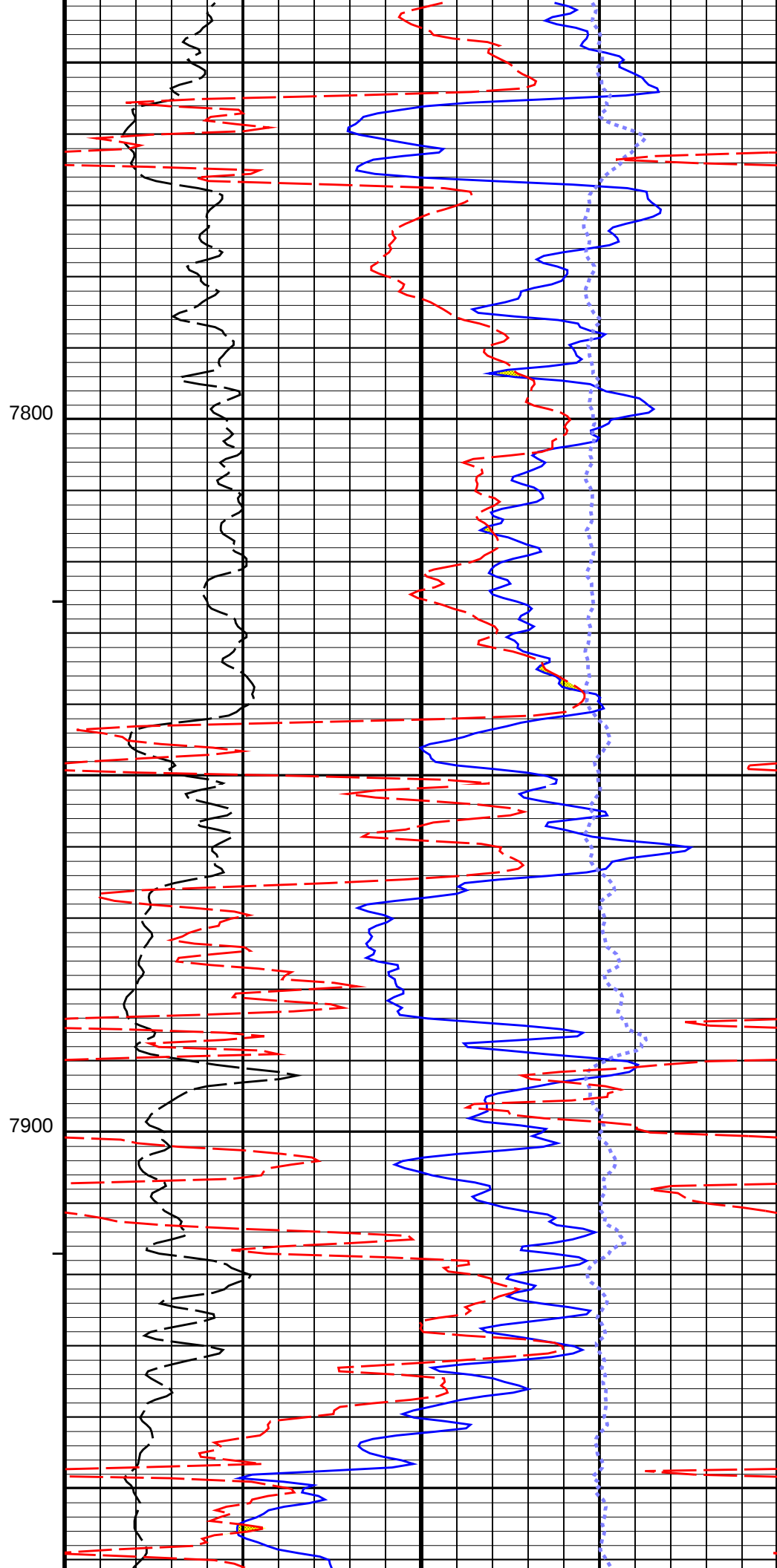
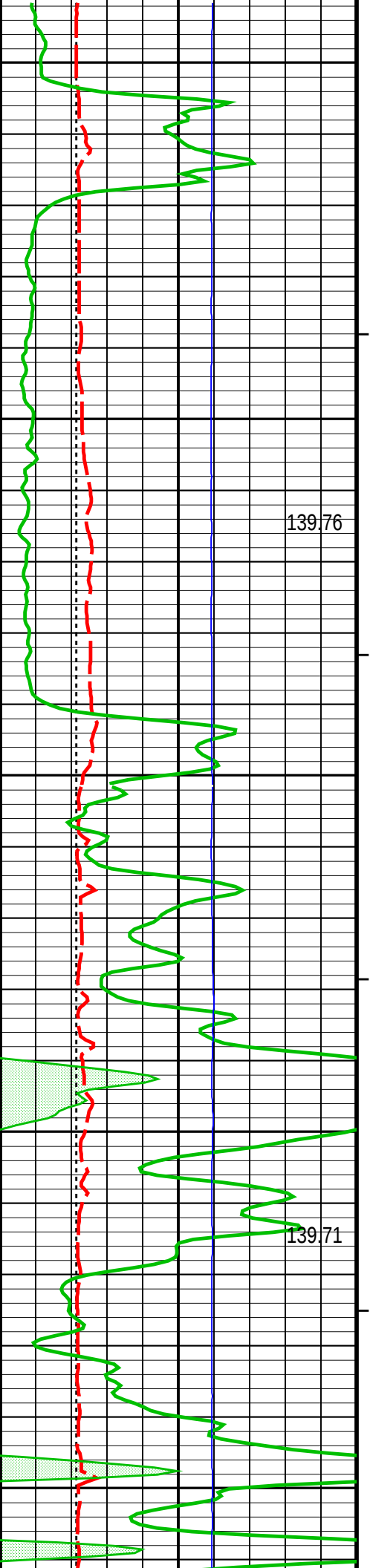


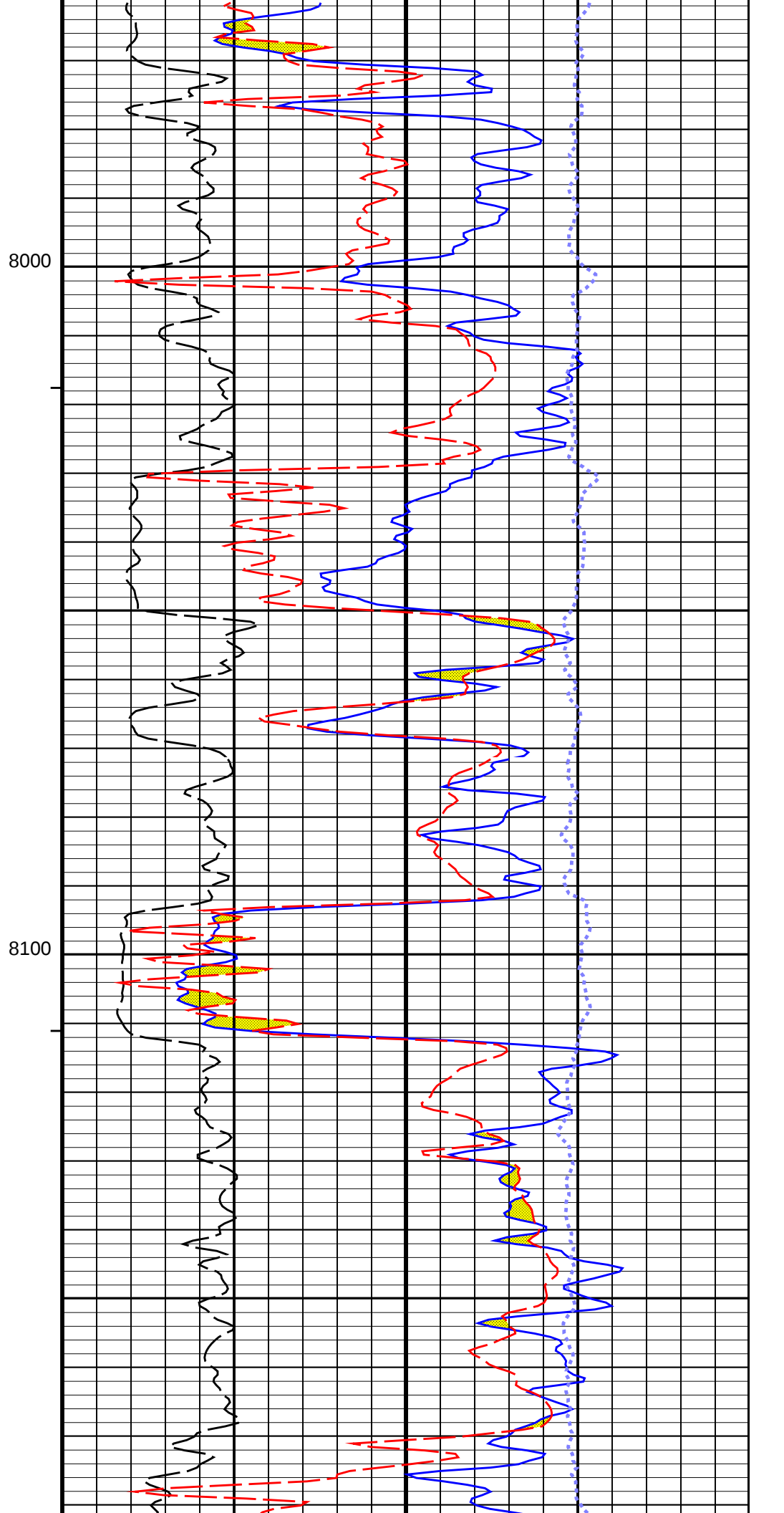
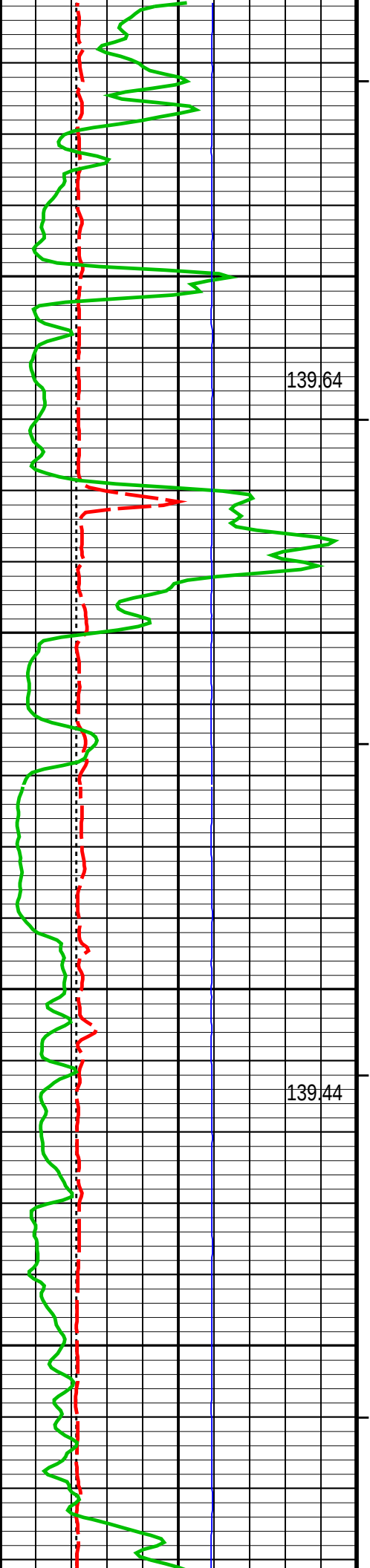


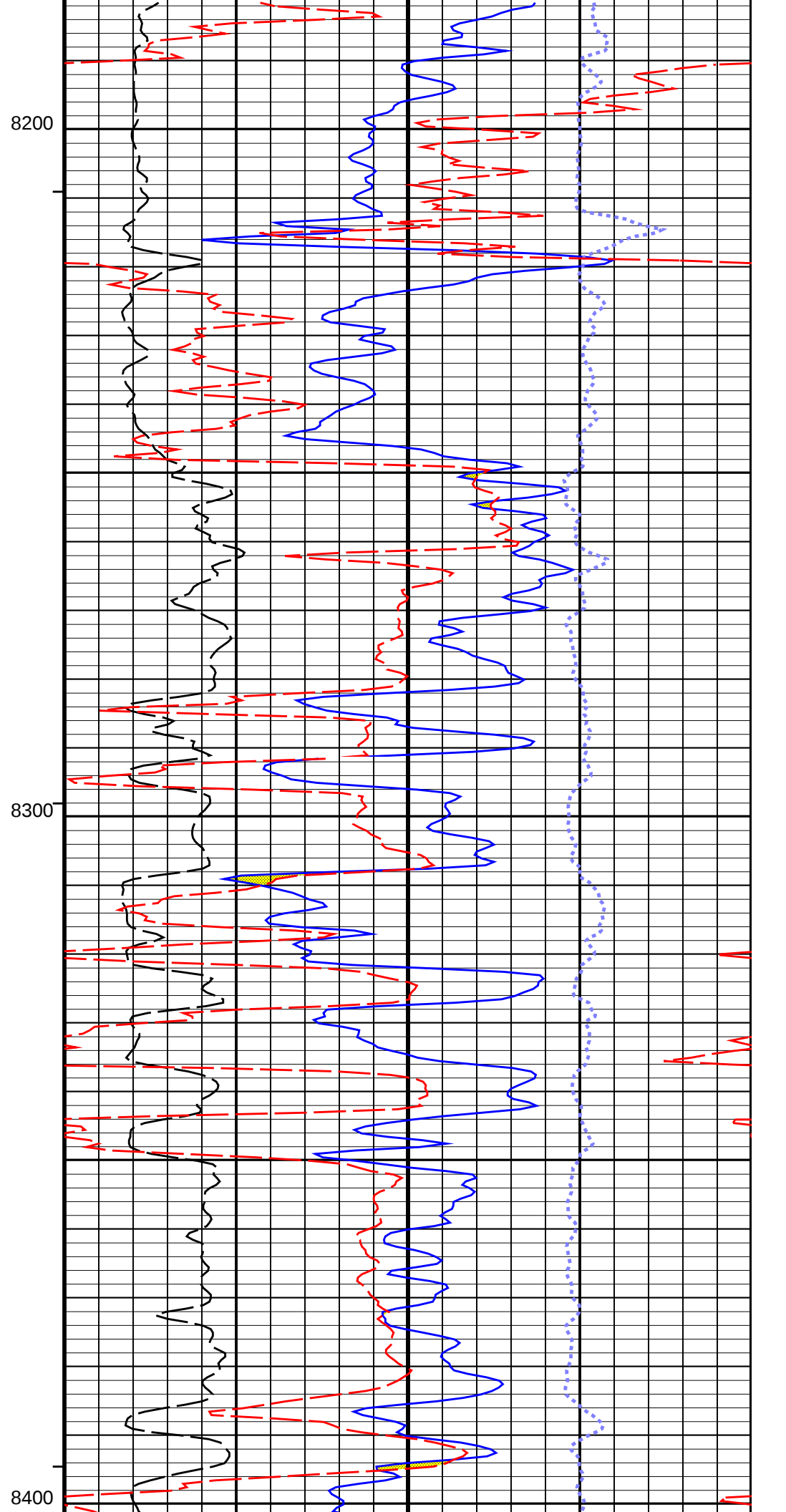
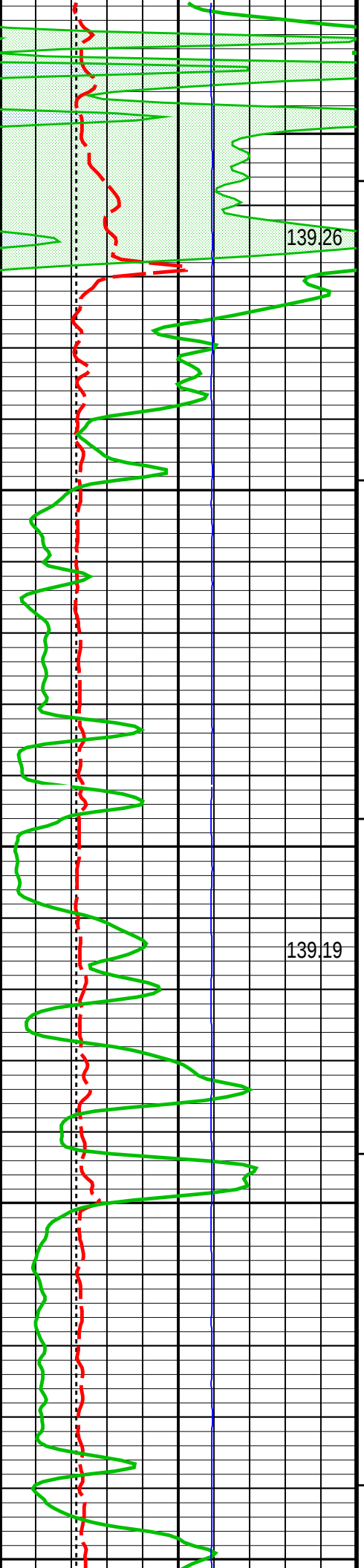


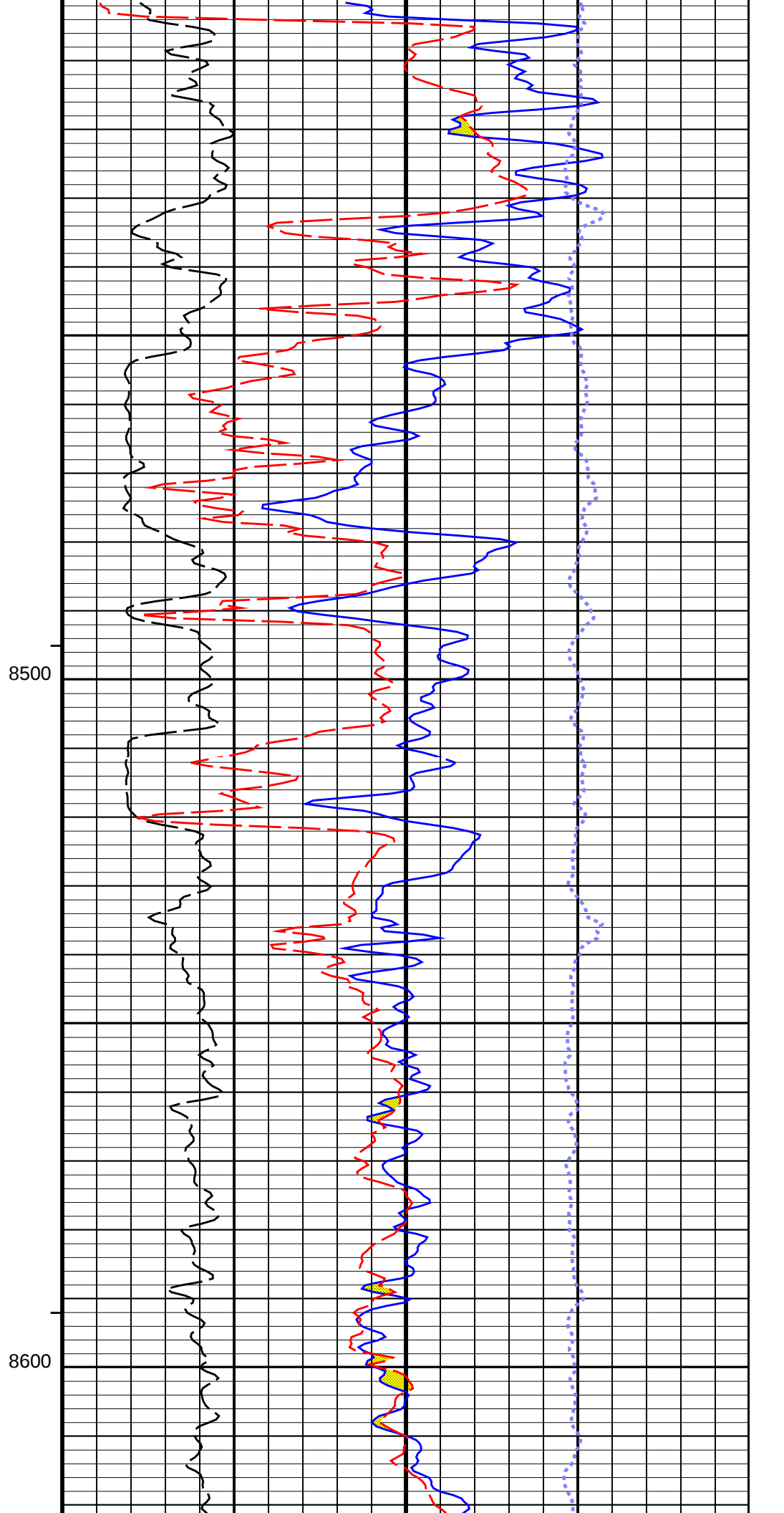
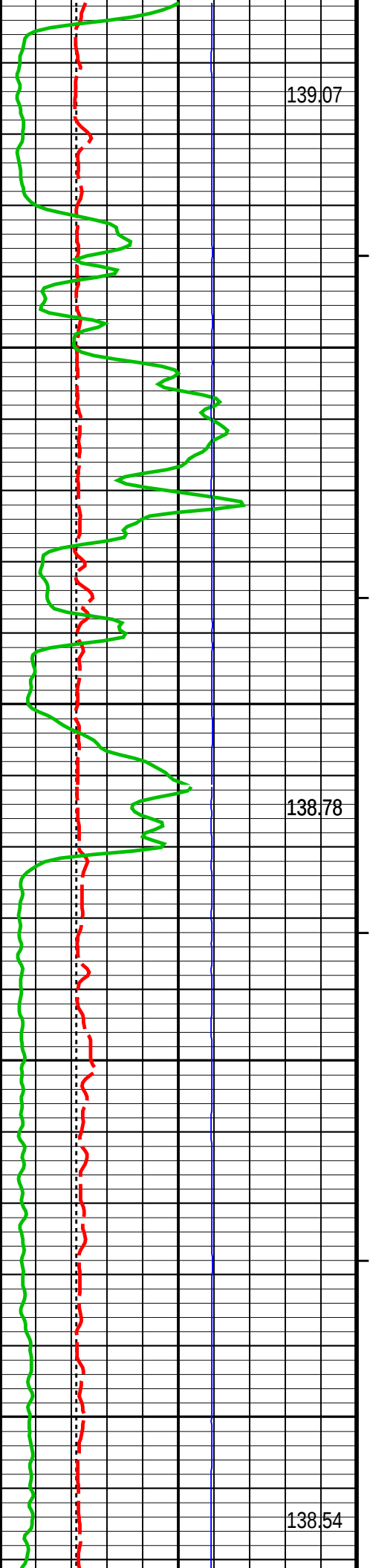


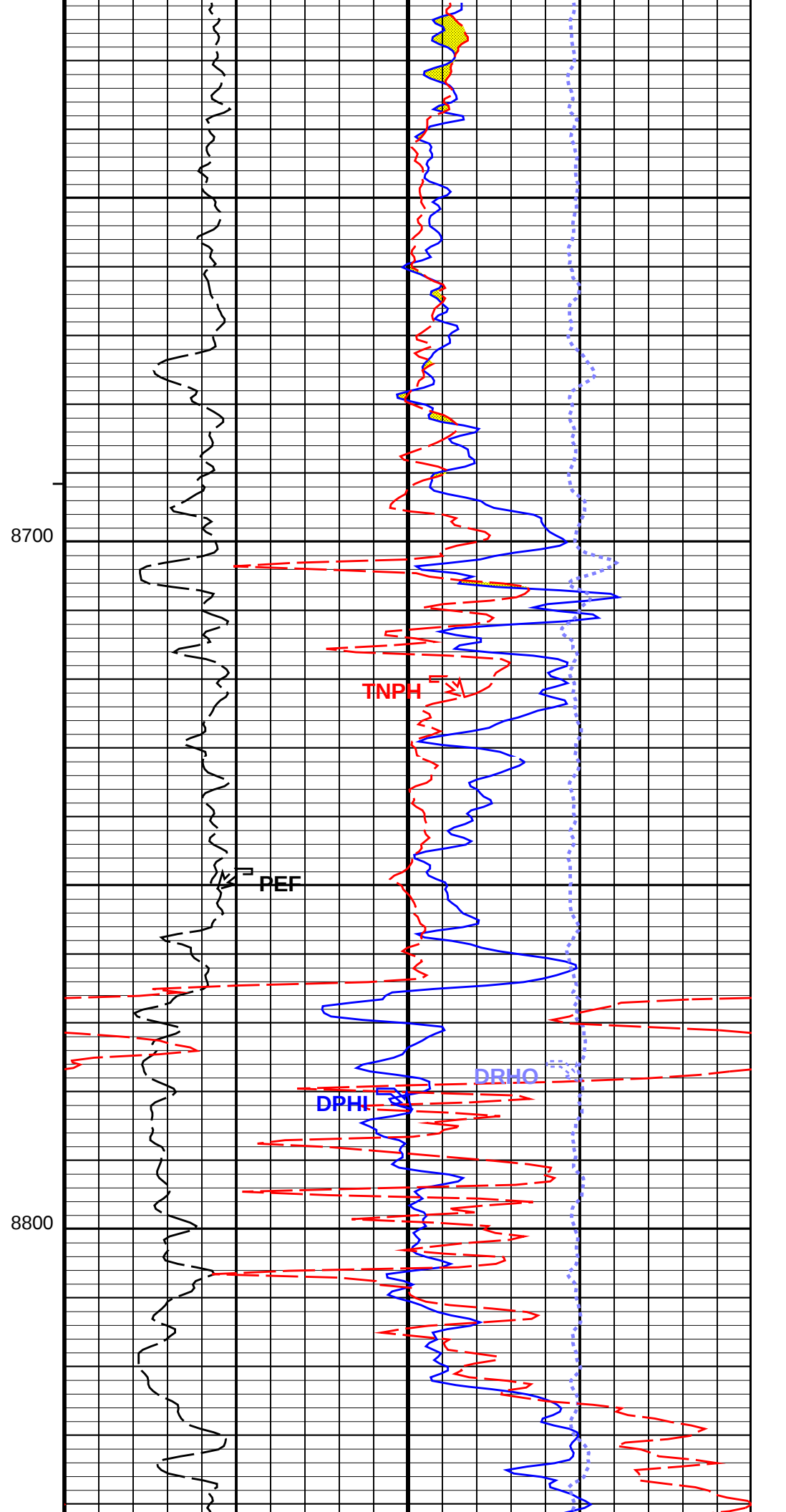
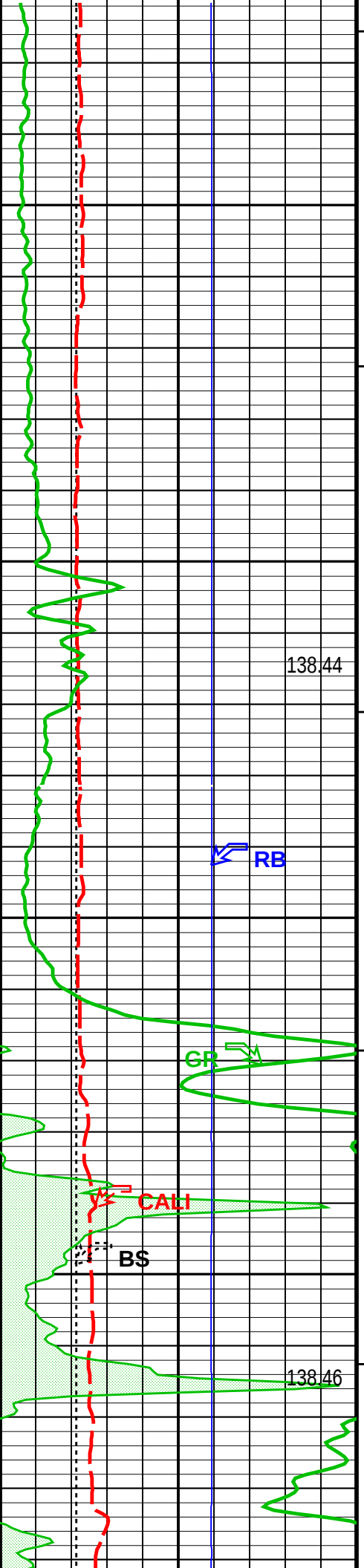


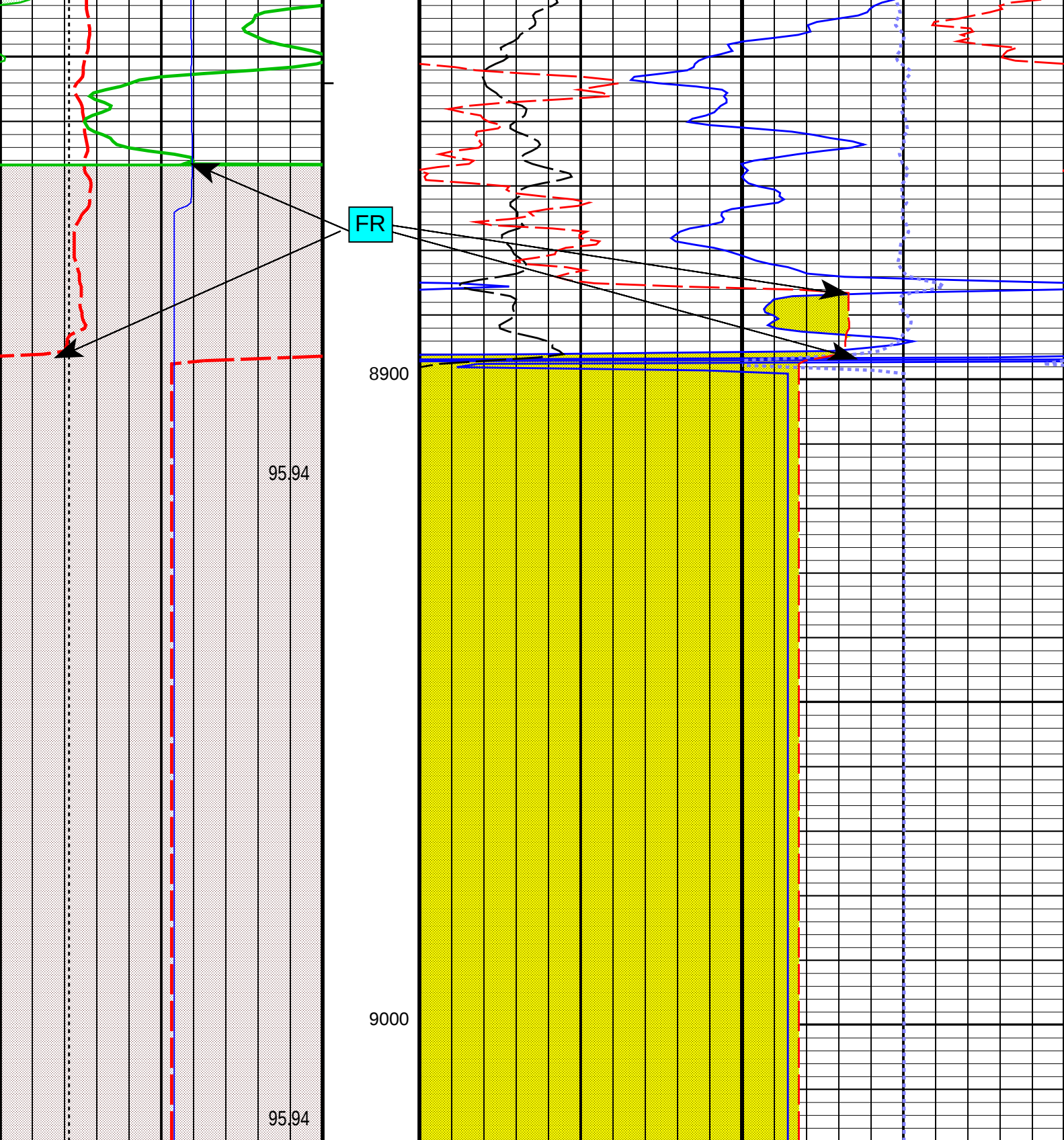












GR Temp (WTEP) (DEGF)		
Bit Size (BS) (IN)		
4		14
Gamma Ray 1 (GR) (GAPI)		
150		300
Gamma Ray 2 (GR) (GAPI)		
300		450
Gamma Ray 3 (GR) (GAPI)		
450		600

DPHI (DPHI) (PU)			
30			-10
PEF (PEF) (----)		DRHO (DRHO) (G/C3)	
0	10	-0.5	0.5
TNPH (TNPH) (%)			
30			-10



CALIBRATIONS

MAXIS Field Log

ThruBit String / Equipment Identification

Primary Equipment:

Induction Resistivity
Density
Gamma-Ray Logging Source
Thermal Neutron
Neutron Logging Source
Spectral GR
Telemetry Memory GR
Battery

TBI - A 48
TBD - A 46
GGLS - FZ 3216
TBN - A 18
NNLS - EWA 4484
TBSG - A 5
TMG - A 27
TBAT - 2

Auxiliary Equipment:

ThruBit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal
	-477.754	-457.000		-47.2811	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
	-148.548	-141.000		11.9862	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
	-29.5006	-28.0000		-43.8062	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
	-17.1795	-16.0000		223.227	300.000
-24.0000 (Minimum)	-8.0000 (Maximum)		25.0000 (Minimum)	575.000 (Maximum)	
Freq 1, A5, R	Value	Nominal	Freq 1, A5, X	Value	Nominal
	-14.9890	-14.0000		108.223	150.000
-21.0000 (Minimum)	-7.0000 (Maximum)		25.0000 (Minimum)	275.000 (Maximum)	
Freq 2, A1, R	Value	Nominal	Freq 2, A1, X	Value	Nominal
	-248.729	-237.000		-63.9629	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
	-96.3757	-92.0000		-20.3241	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
	-21.3083	-21.0000		-81.3063	-20.0000
-28.0000 (Minimum)	-13.0000 (Maximum)		-325.000 (Minimum)	250.000 (Maximum)	

	Freq 2, A4, R	Value	Nominal		Freq 2, A4, X	Value	Nominal
		-20.1695	-20.0000			55.8334	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
		-19.7655	-20.0000			-29.5598	-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
		-158.303	-149.000			-118.392	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
		-73.4697	-70.0000			-56.5094	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
		-17.3847	-17.0000			-119.295	-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
		-21.8296	-22.0000			-57.6300	-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
		-22.3674	-22.0000			-132.582	-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
		-86.9244	-80.0000			-238.503	-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
		-52.6892	-50.0000			-121.709	-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
		-13.6973	-14.0000			-188.964	-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
		-25.1397	-25.0000			-228.660	-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
		-28.4649	-28.0000			-309.437	-300.000
-43.0000 (Minimum)	(Nominal)	-12.0000 (Maximum)		-475.000 (Minimum)	(Nominal)	-125.000 (Maximum)	
Master: 5-Jun-2014 10:00							

ThruBit String Master Calibration							
TBI Master Calibration COMPLEX GAINS							
	Freq 1, R	Value	Nominal		Freq 1, X	Value	Nominal
		0.9896	1.000			-0.001894	0
		0.9874	1.000			0.001263	0
		0.9915	1.000			-0.006632	0
		0.9919	1.000			0.001961	0
		0.9955	1.000			0.001397	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
	Freq 2, R	Value	Nominal		Freq 2, X	Value	Nominal
		0.9848	1.000			-0.007803	0

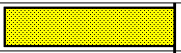
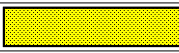
		0.9821	1.000			-0.005261	0
		0.9806	1.000			-0.005601	0
		0.9876	1.000			-0.005181	0
		0.9917	1.000			-0.003985	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Freq 3, R		Value	Nominal	Freq 3, X		Value	Nominal
		0.9847	1.000			-0.003502	0
		0.9825	1.000			-0.001610	0
		0.9807	1.000			-0.001887	0
		0.9865	1.000			-0.001574	0
		0.9930	1.000			-0.0004105	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
		0.9877	1.000			-0.008021	0
		0.9851	1.000			-0.006480	0
		0.9854	1.000			-0.008695	0
		0.9901	1.000			-0.007741	0
		1.003	1.000			-0.007561	0
0.9300 (Minimum)	(Nominal)	1.070 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Master: 5-Jun-2014 10:00							

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
	1862.3	1949.8		2014.5	2096.7		2174.6	2285.7
1799.8 (Minimum)	2099.8 (Maximum)		1946.7 (Minimum)	2246.7 (Maximum)		2135.7 (Minimum)	2435.7 (Maximum)	
Master: 31-Jul-2014 15:44								

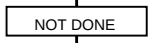
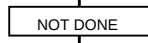
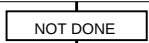
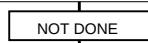
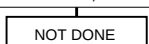
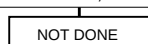
ThruBit String Master Calibration						
TBD Density Master Calibration. PEEK Window, ThruBit blocks						
Aluminium Density G/C3	Value	Nominal	Magnesium Density G/C3	Value	Nominal	
	2.607	2.607		1.752	1.752	
2.557 (Minimum)	2.657 (Maximum)		1.702 (Minimum)	1.802 (Maximum)		
LS1 Background CPS	Value	Nominal	SS1 Background CPS	Value	Nominal	
	136.85	140.00		131.93	140.00	
100.00 (Minimum)	187.00 (Maximum)		100.00 (Minimum)	185.00 (Maximum)		
LS4 Background CPS	Value	Nominal	SS1 Aluminium CPS	Value	Nominal	
	27.65	29.00		4675.19	4850.00	
20.00 (Minimum)	38.00 (Maximum)		4076.00 (Minimum)	5613.00 (Maximum)		
LS1 Aluminium CPS	Value	Nominal	SS1 Magnesium CPS	Value	Nominal	
	858.99	870.00		7602.94	8000.00	
750.00 (Minimum)	982.00 (Maximum)		6695.00 (Minimum)	9269.00 (Maximum)		
LS4 Aluminium CPS	Value	Nominal				
	989.23	955.00				
796.00 (Minimum)	1169.0 (Maximum)					
LS1 Al + Sleeve CPS	Value	Nominal				
	773.67	725.00				
650.00 (Minimum)	838.00 (Maximum)					
LS4 Al + Sleeve CPS	Value	Nominal				
	494.03	426.50				

382.00 (Minimum)	484.93 (Nominal)	638.00 (Maximum)	420.50
LS1 Magnesium CPS		Value	Nominal
		5514.42	5800.00
5158.00 (Minimum)	6486.00 (Maximum)		
SS Slope		Value	Nominal
		1.698	1.645
1.520 (Minimum)	1.770 (Maximum)		
LS Slope		Value	Nominal
		0.4227	0.4150
0.3800 (Minimum)	0.4500 (Maximum)		
Pef K Factor		Value	Nominal
		4.909	4.840
3.510 (Minimum)	6.170 (Maximum)		
Pef B Factor		Value	Nominal
		-0.6369	-0.5550
-0.7000 (Minimum)	-0.4100 (Maximum)		

Master: 31-Jul-2014 15:32

ThruBit String Master Calibration					
Thermal Neutron Master Calibration					
TNF, Background CPS		Value	Nominal	TNN, Background CPS	
		0.15	1.0		
0 (Minimum)	2.0 (Maximum)			0 (Minimum)	2.0 (Maximum)
TNF, Tank CPS		Value	Nominal	TNN, Tank CPS	
		85.42	96.00		
25.00 (Minimum)	200.0 (Maximum)			750.00 (Minimum)	5700.0 (Maximum)
TNF, Tank + Al Sleeve CPS		Value	Nominal	TNN, Tank + Al Sleeve CPS	
		2821.5	3040.0		
727.00 (Minimum)	6080.0 (Maximum)			8000.00 (Minimum)	64700.0 (Maximum)
Tank + Al Sleeve Ratio		Value	Nominal	Tank + Al Sleeve Porosity PU	
		10.847	10.797		
10.300 (Minimum)	11.300 (Maximum)			13.40 (Minimum)	15.40 (Maximum)
Tank, Ratio		Value	Nominal	Tank, Temperature DEGF	
		29.945	30.958		
28.000 (Minimum)	34.000 (Maximum)			20.0 (Minimum)	120 (Maximum)

Master: 31-Jul-2014 14:17

ThruBit String Master Calibration					
TMG Accelerometer Calibration					
Minimum Ax, m/s2		Value	Nominal	Maximum Ax, m/s2	
		N/A	-9.810		
-10.81 (Minimum)	-8.810 (Maximum)			8.810 (Minimum)	10.81 (Maximum)
Minimum Ay, m/s2		Value	Nominal	Maximum Ay, m/s2	
		N/A	-9.810		
-10.81 (Minimum)	-8.810 (Maximum)			8.810 (Minimum)	10.81 (Maximum)
Minimum Az, m/s2		Value	Nominal	Maximum Az, m/s2	
		N/A	0		
-1.000 (Minimum)	1.000 (Maximum)			8.810 (Minimum)	10.81 (Maximum)
RB Offset, degrees		Value	Nominal		
		-17.00	0		

-360.0 (Minimum)	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
			28.95	30.00				161.3	170.8
0 (Minimum)	120.0 (Maximum)				136.6 (Minimum)	205.0 (Maximum)			
Master: Calibration out of date 15-Oct-2013 12:57									

Company: SANDRIDGE ENERGY



Well: STEWART 3306 3-1H
Field: STOHRVILLE
County: HARPER
State: KANSAS

SPECTRAL DENSITY
DUAL SPACED NEUTRON
MEMORY LOG