



Company: SANDRIDGE ENERGY, INC.

Well: CHARLES 3306 1-33H

Field: **STOHRVILLE**

County: **HARPER** State: **KANSAS**

County:	HARPER		
Field:	STOHRVILLE		
Location:	SURF LOC: 225' FNL & 1050 FEL		
Well:	CHARLES 3306 1-33H		
Company:	SANDRIDGE ENERGY, INC.		
SPECTRAL DENSITY / DUAL SPACED NEUTRON GAMMA RAY MEMORY LOG			
LOCATION			
SURF LOC: 225' FNL & 1050 FEL		Elev.:	K.B. 1325.00 ft G.L. 1309.00 ft D.F. 1325.00 ft
Permanent Datum:	GROUND LEVEL	Elev.:	1309.00 ft
Log Measured From:	DRILLING FLOOR	16.00 ft	above Perm. Datum
Drilling Measured From:	DRILLING FLOOR		
API Serial No. 15077220050100	Section 33	Township 33S	Range 6W

[illegible]

Logging Date	23 FEBRUARY 2014					
Run Number	1					
Depth Driller	8809 ft					
Schlumberger Depth	8770 ft					
Bottom Log Interval	8752 ft					
Top Log Interval	2700 ft					
Casing Driller Size @ Depth	7.000 in @ 5214 ft				@	
Casing Schlumberger	5224 ft					
Bit Size	6.125 in					
Type Fluid In Hole	WBM					
Density	8.6 lbm/gal		27 s			
Fluid Loss	60 cm3		9			
Source Of Sample	SUCTION PIT					
RM @ Measured Temperature	1.700 ohm.m		@ 59 degF		@	
RMF @ Measured Temperature	1.300 ohm.m		@ 59 degF		@	
RMC @ Measured Temperature	2.100 ohm.m		@ 59 degF		@	
Source RMF	RMC		CALCULATED			
RM @ MRT	RMF @ MRT		0.762 @ 140 0.583 @ 140		@	@
Maximum Recorded Temperatures	140 degF					
Circulation Stopped	Time		23FEB2014		20:10	
Logger On Bottom	Time		23FEB2014		23:25	
Unit Number	Location		4 OKC, OK			
Recorded By	D. THOMAS					
Witnessed By	DON WAIGHT					

Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth		@			
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density	Viscosity				
Fluid Loss	PH				
Source Of Sample					
RM @ Measured Temperature		@			
RMF @ Measured Temperature		@			
RMC @ Measured Temperature		@			
Source RMF	RMC				
RM @ MRT	RMF @ MRT	@		@	
Maximum Recorded Temperatures					
Circulation Stopped	Time				
Logger On Bottom	Time				
Unit Number	Location				
Recorded By					
Witnessed By					

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: THRUBIT

OS2: PORTAL

OS3: BIT

OS4:

OS5:

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

REMARKS: RUN NUMBER 1

REMARKS: RUN NUMBER 2

SERVICE: LEVEL 4 - HORZ MEMORY PUMP DOWN - BIT DEPTH: 8713' LOG TO: 2700

ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST

LIMESTONE MATRIX, 2.71 G/CC, USED TO CALCULATE POROSITIES

TOOL STRING RAN WITH S. DECENTRALIZER, SWIVEL, AND NO STANDOFFS

CEMENT VOLUME CALCULATED FOR 4.50" FUTURE CASING

PASON AND HSPM USED TO CREATE LOG DEPTH

LOG DEPTH CORRELATED TO MWD GAMMA AT CUSTOMERS REQUEST

RIG: UNIT #90

CREW: D. THOMAS, J. DOTY, K. REED

RUN 1

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

2600
19C2-270
0 ft

LOGGED INTERVAL

START

STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED

LOGGED INTERVAL

START

STOP

[illegible]

RUN 1

RUN 2

SURFACE EQUIPMENT

WITM (Thrubit)

DOWNHOLE EQUIPMENT

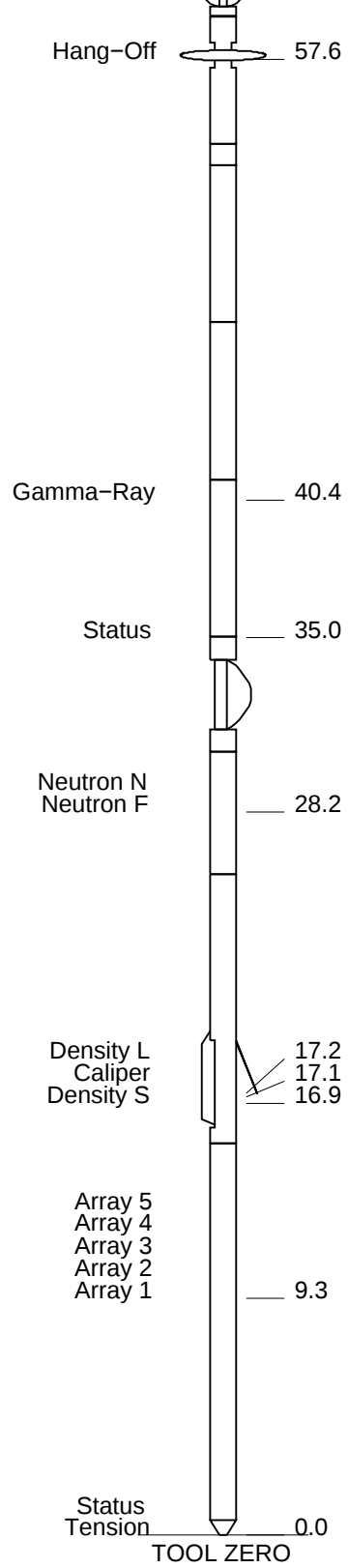
TBT-A
THEAD
CCL
BDOT-B 6
THOT
T10 1
TBAT1 40
TBAT2 7

CCL

64.2

67.1

TMG-A 10
TBEX-A
TBN-A 2
NNLS-EWA
TBD-A 41
GGLS-FZ
TBI-A 38



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



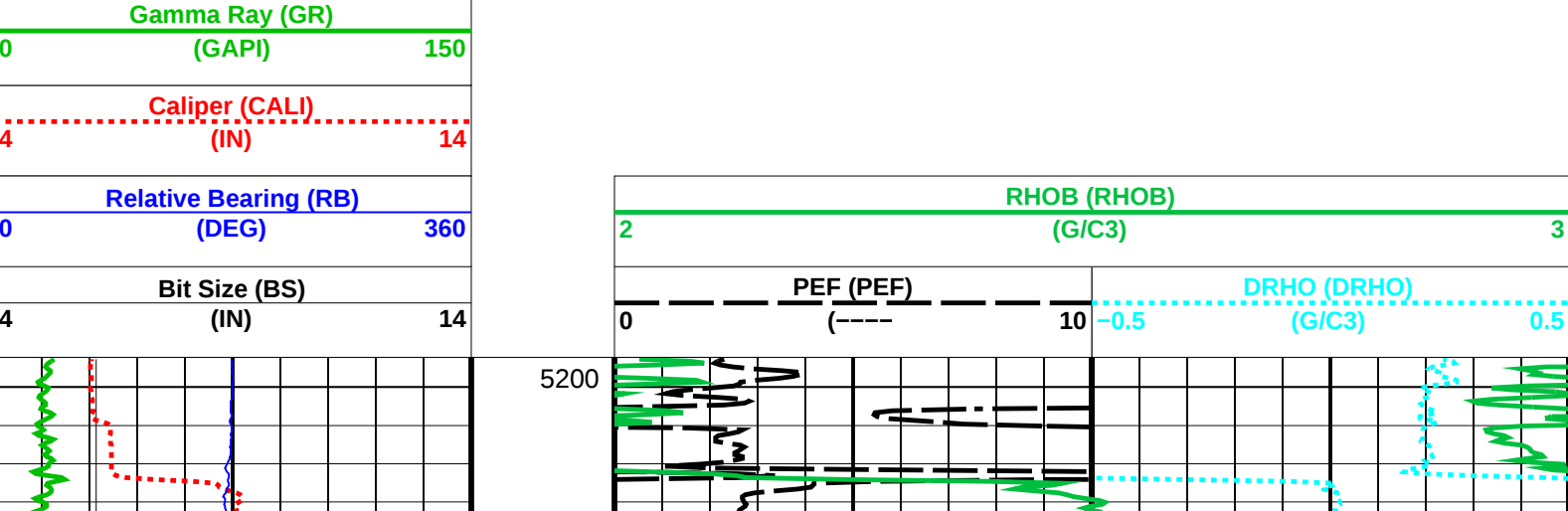
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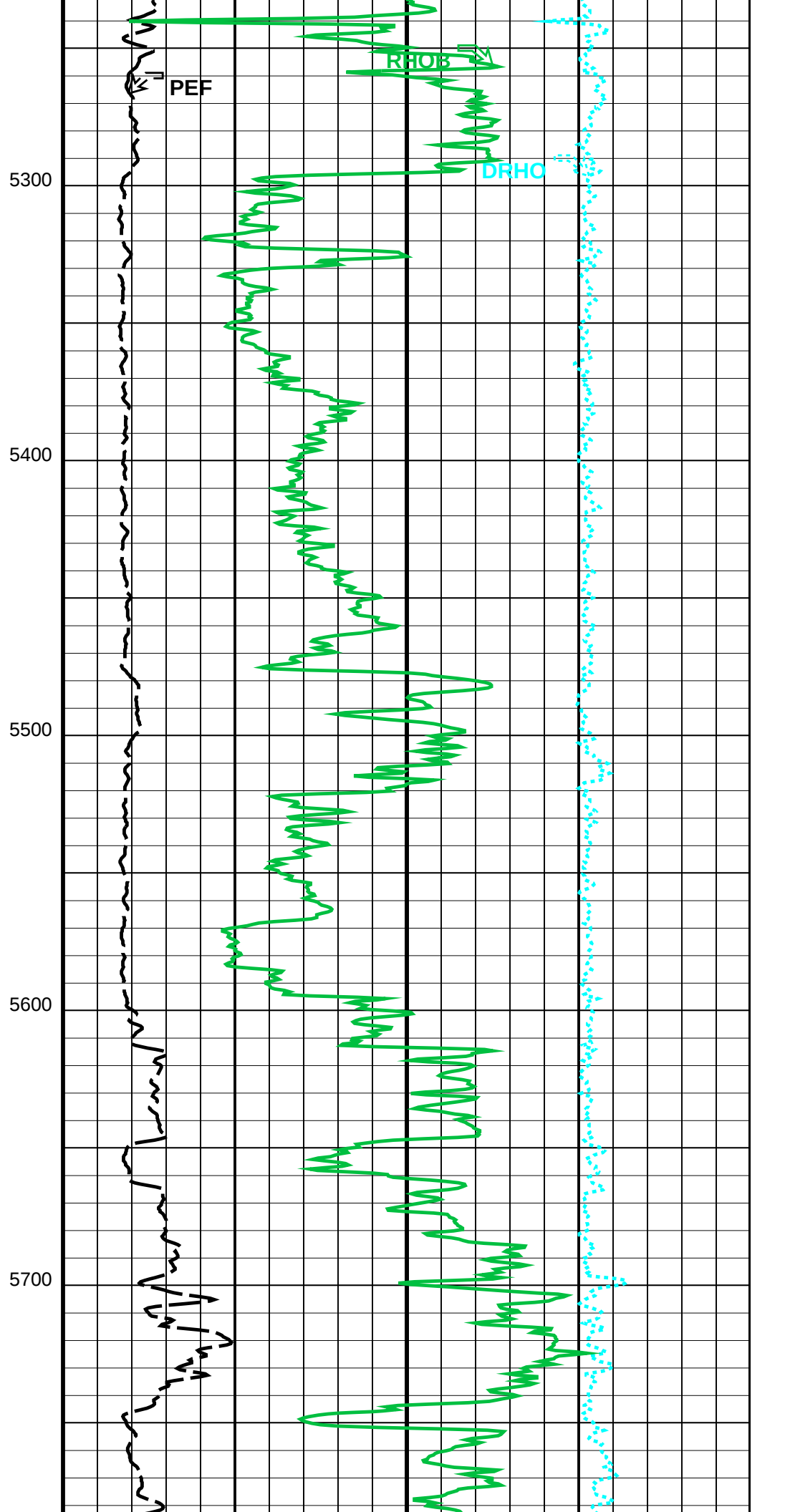
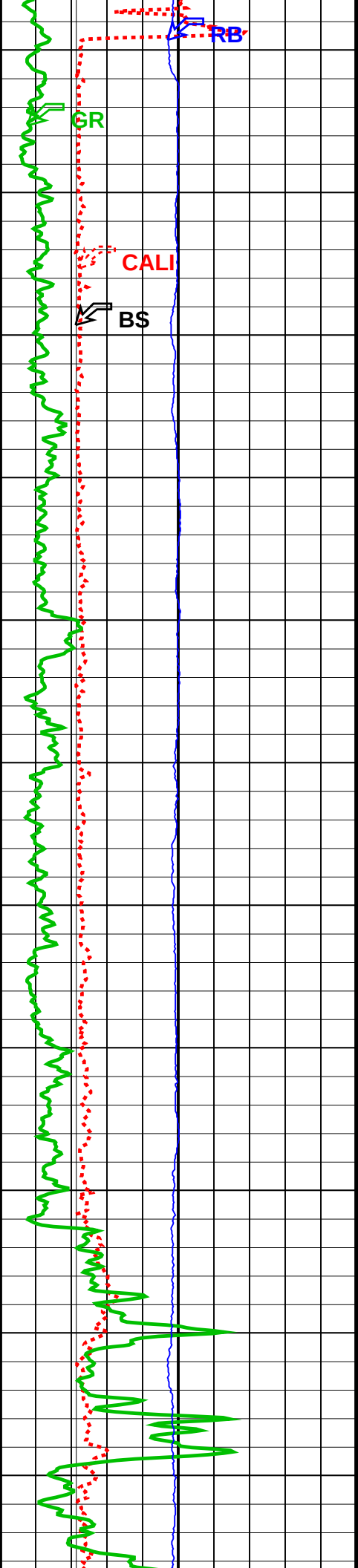
MAXIS Field Log

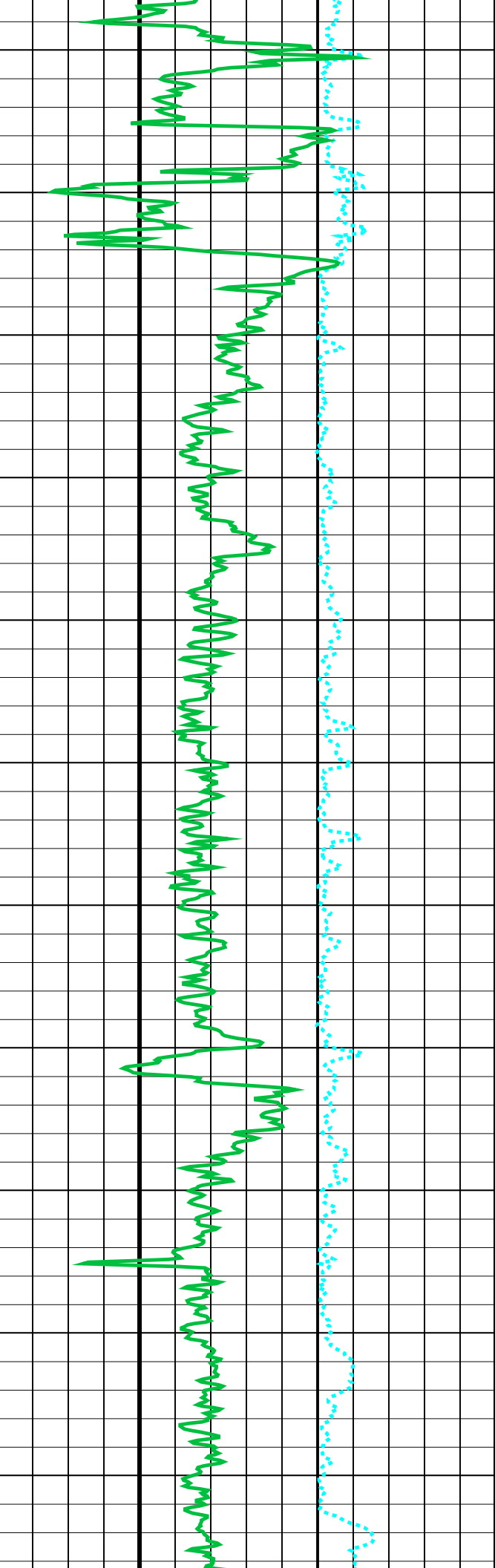
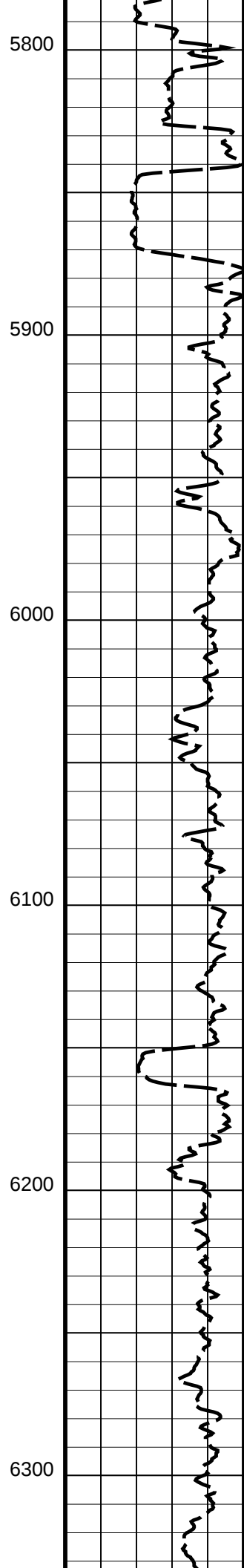
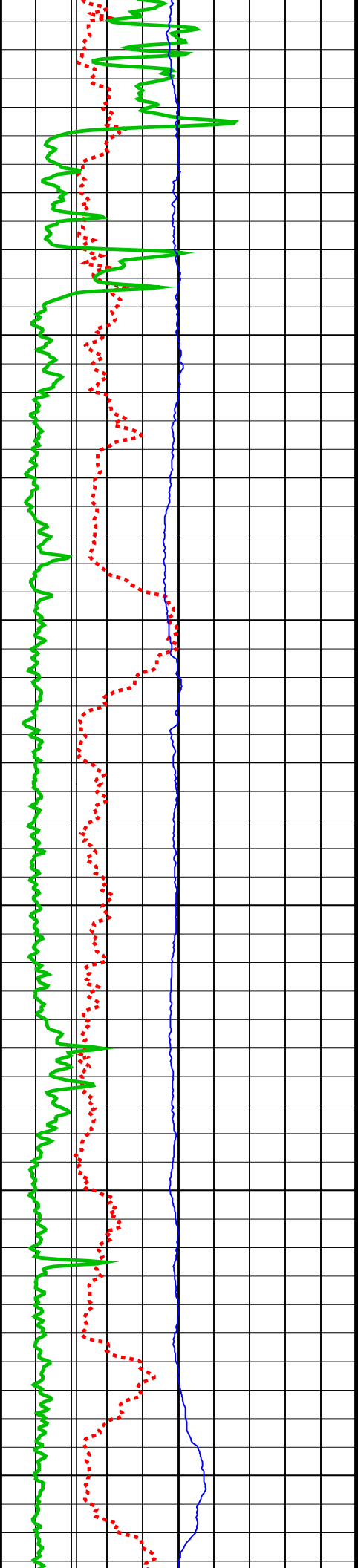
Company: SANDRIDGE ENERGY, INC. Well: CHARLES 3306 1-33H

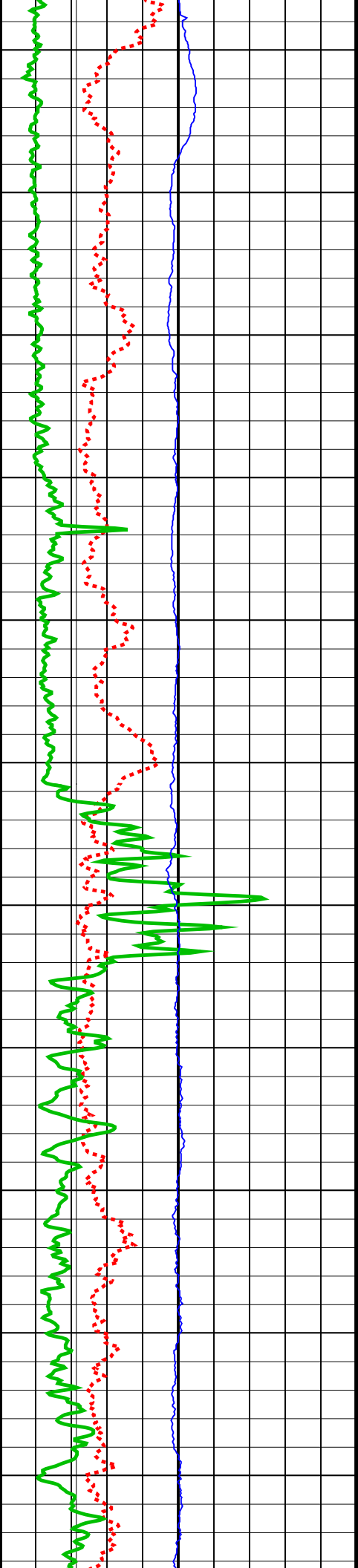
Input DLIS Files						
DEFAULT	ThruBit_018PUP	FN:17	PRODUCER	24-Feb-2014 07:04	8769.8 FT	2694.0 FT

OP System Version: 19C2-270	
TBT	SRPC-5287-ThruBit

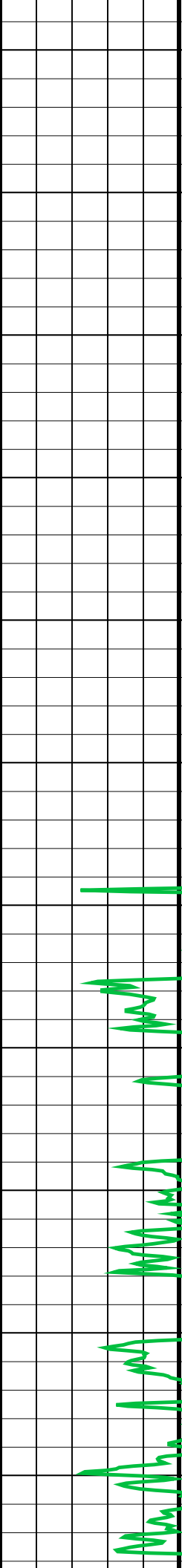
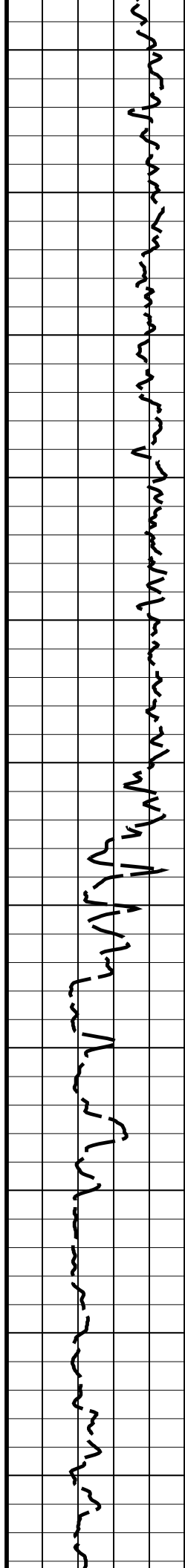


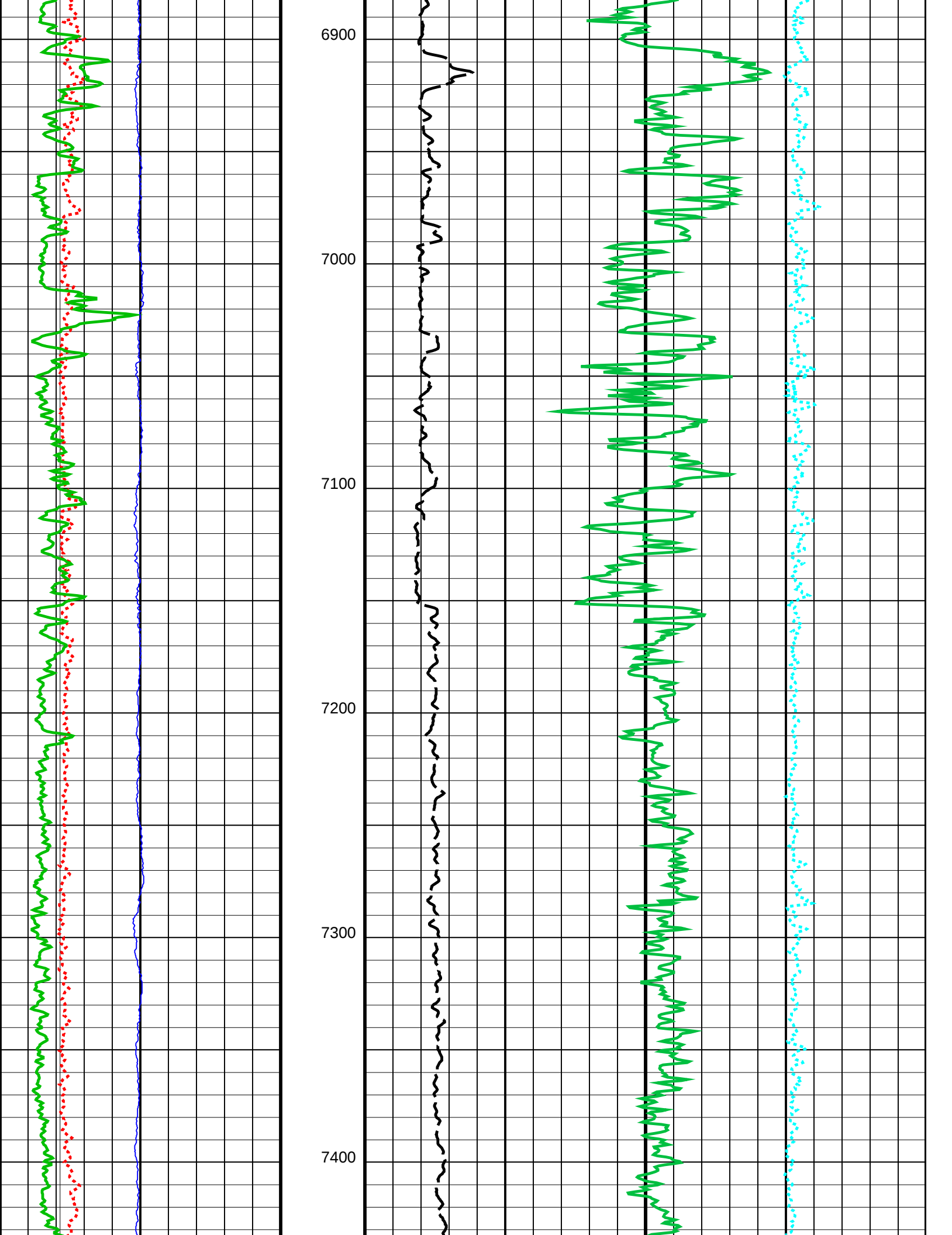


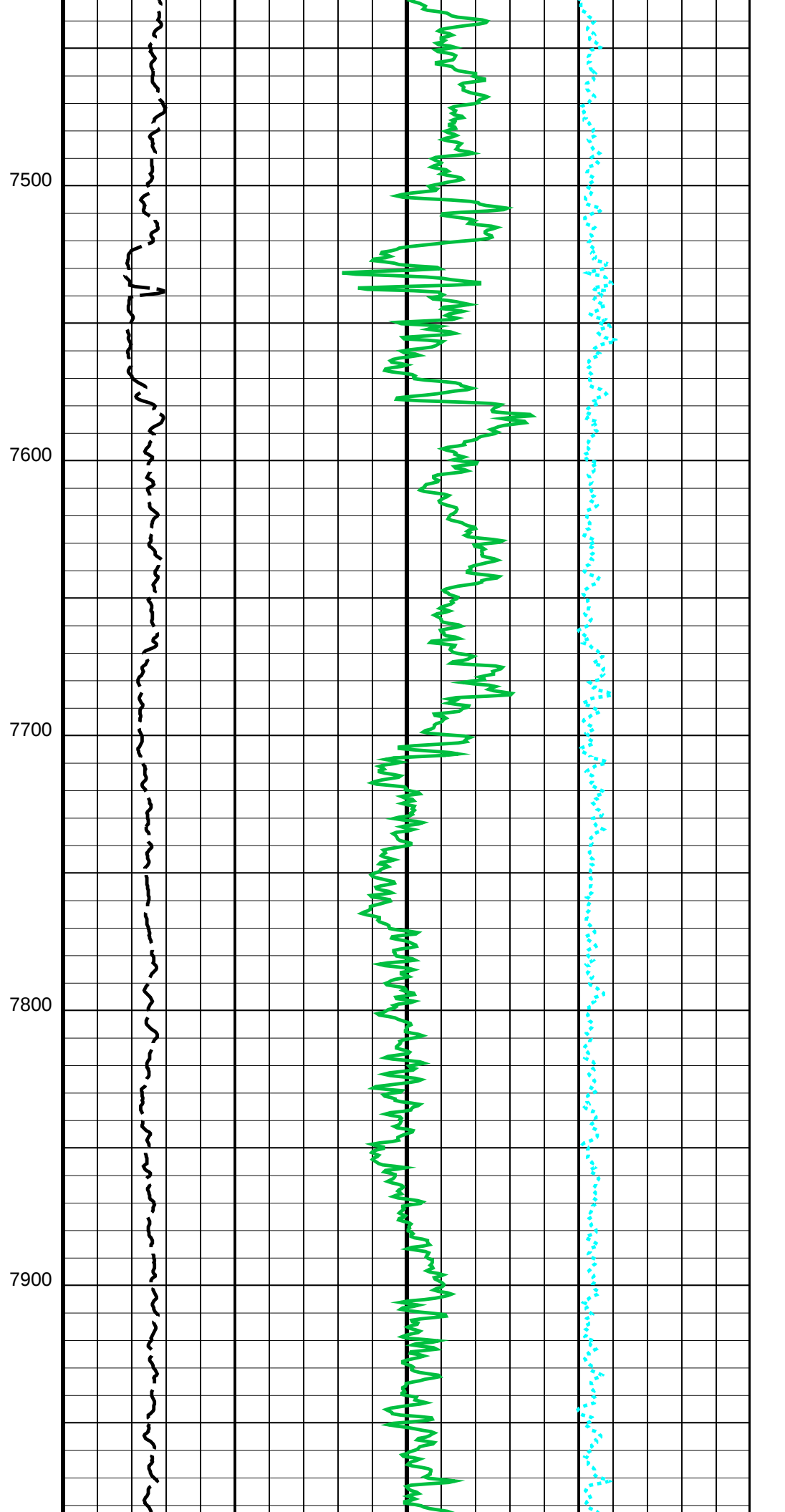
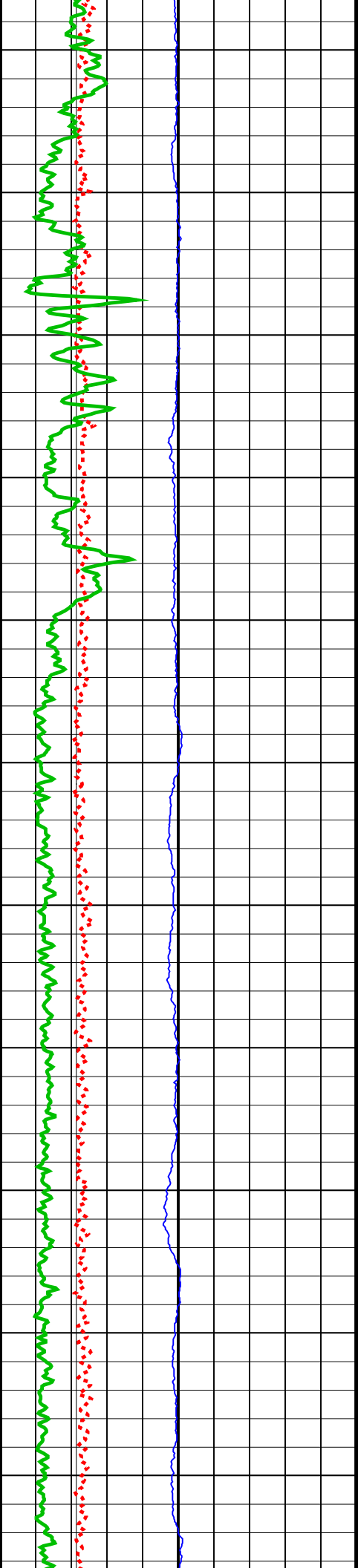


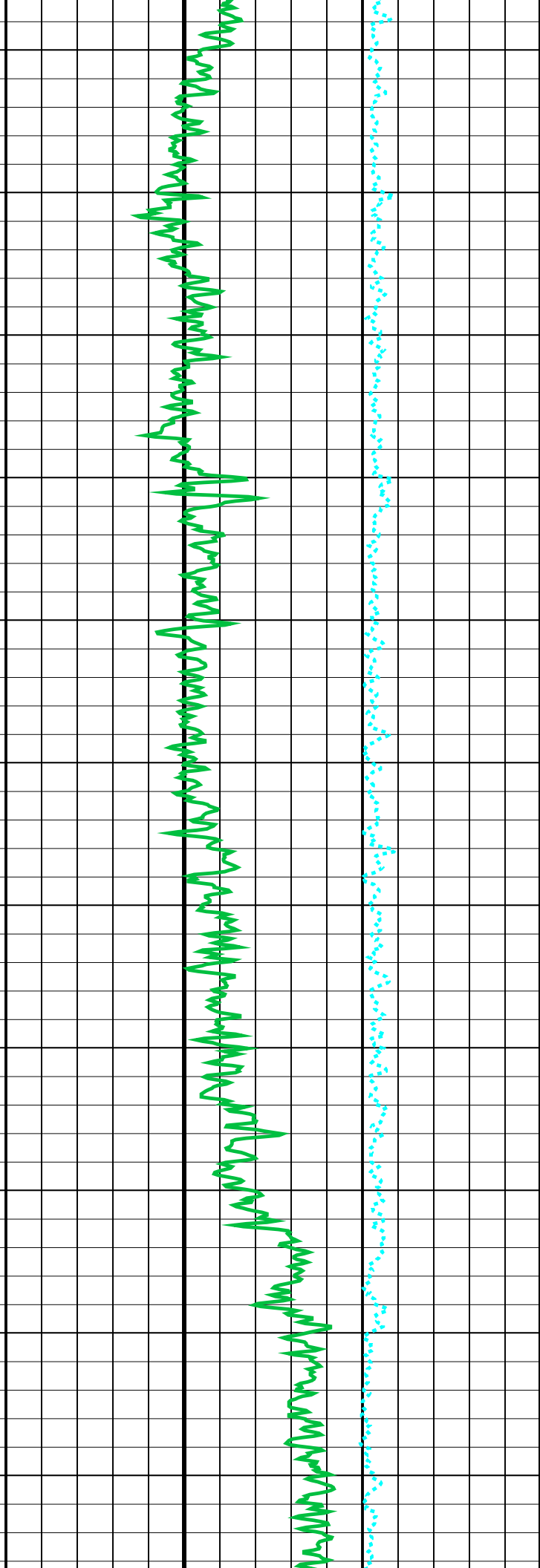
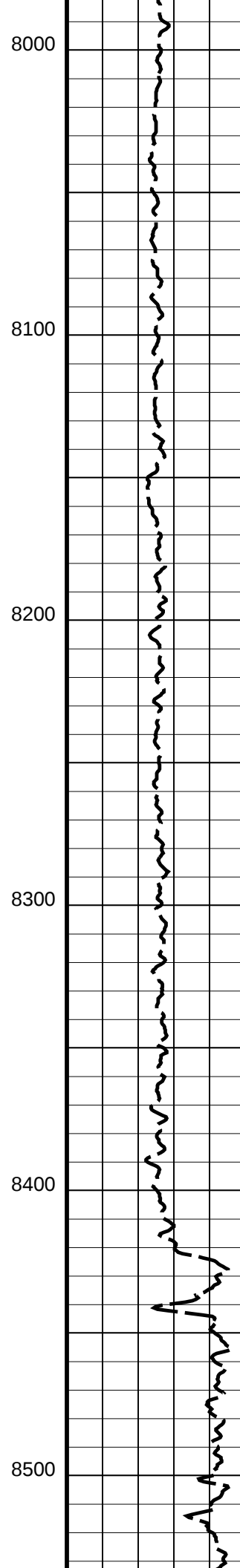
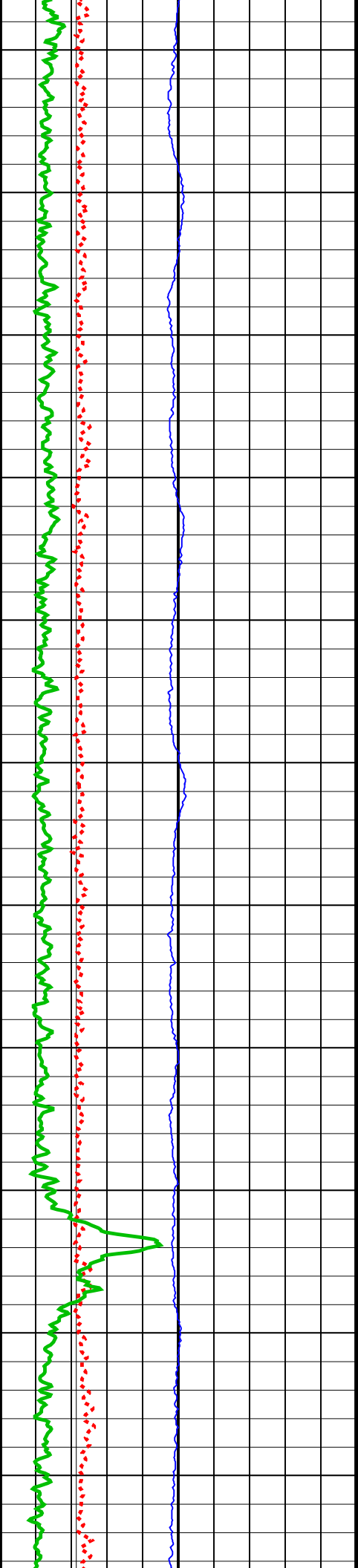


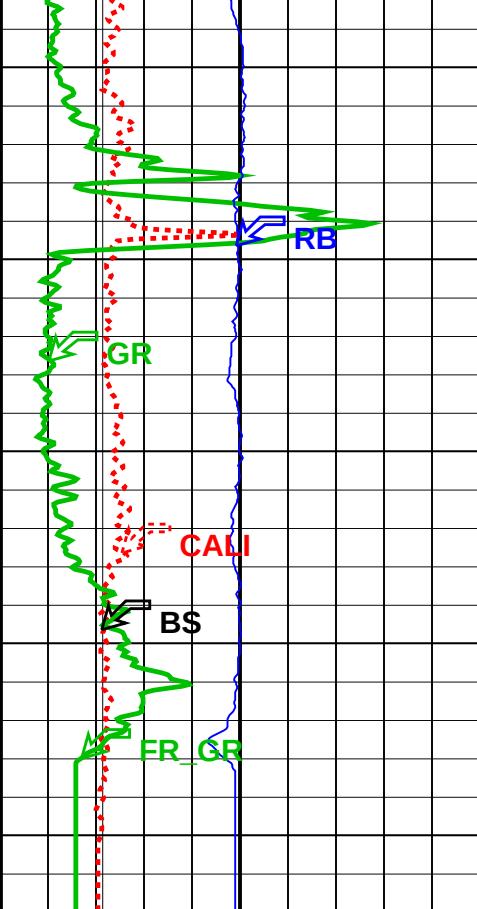
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6500
6600
6700
6800



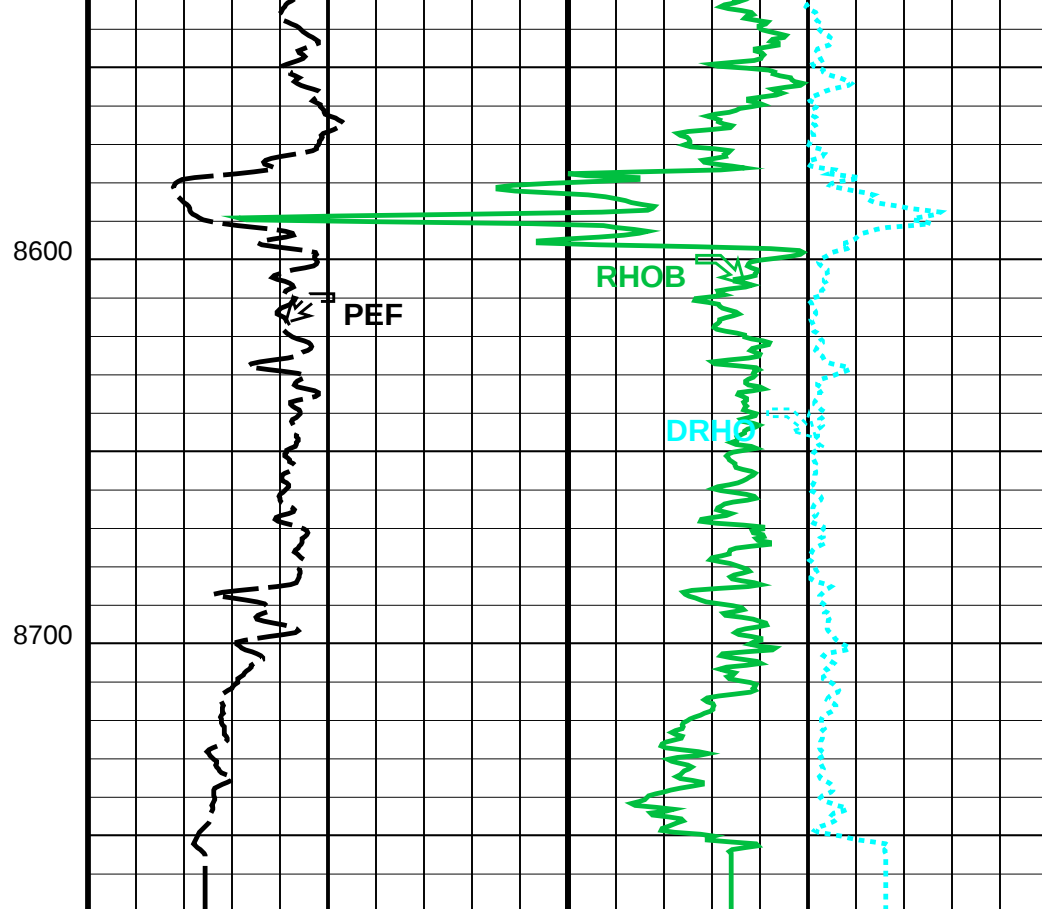








Bit Size (BS)		
(IN)		
4		14
Relative Bearing (RB)		
(DEG)		
0		360
Caliper (CALI)		
(IN)		
4		14
Gamma Ray (GR)		
(GAPI)		
0		150



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

Parameters

DLIS Name	Description	Value	
TBT-A: Thrubit String			
DHC	Density Hole Correction	CALIPER	
RB_OFFSET	Additional RB offset (degrees)	0.000	deg
TBD_CAL_BLOCK	TBD Calibration Block Type	THRUBIT	
WMUD	Mud Weight	8.600	lbm/gal
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0.000	ft
TIMD	Along-hole depth of Tie-in Point	0.000	ft
TIVD	TVD of Tie-in Point	0.000	ft
System and Miscellaneous			
BS	Bit Size	6.125	in

Format: TB_2INCH_NUCLEAR

Vertical Scale: 2" per 100'

Graphics File Created: 24-Feb-2014 07:16

OP System Version: 19C2-270

TBT SRPC-5287-ThruBit

Input DLIS Files

DEFAULT ThruBit_018PUP FN:17 PRODUCER 24-Feb-2014 07:04 8769.8 FT 2694.0 FT

Company: SANDRIDGE ENERGY, INC.

Well: CHARLES 3306 1-33H

Input DLIS Files

DEFAULT

ThruBit_018PUP

FN:17

PRODUCER

24-Feb-2014 07:04

8769.8 FT

2694.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 817.93 ft³Cement Volume = 426.36 ft³ (assuming 4.50 in casing O.D.)

Computed from 8769.0 ft to 5224.0 ft

OP System Version: 19C2-270

TBT

SRPC-5287-ThruBit

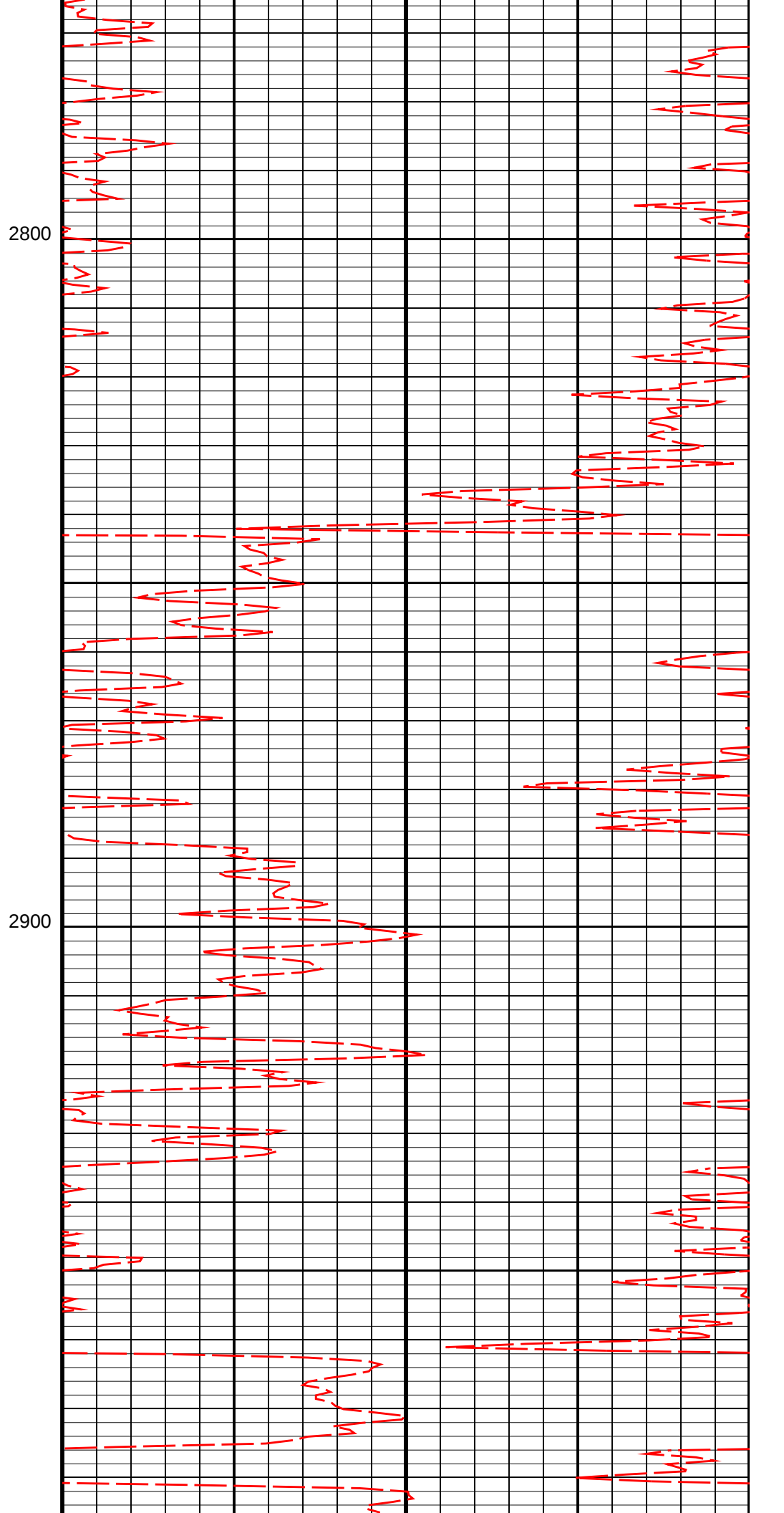
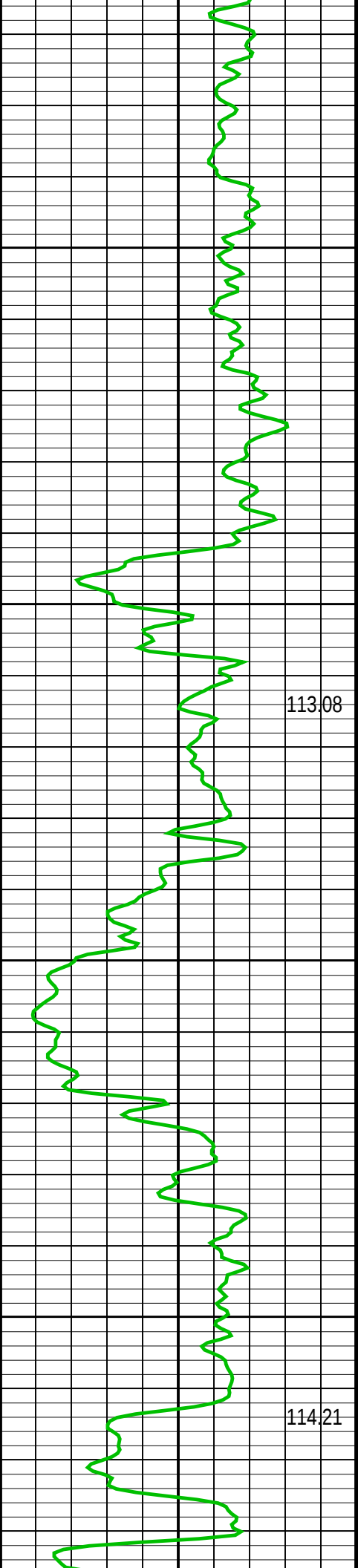
PIP SUMMARY

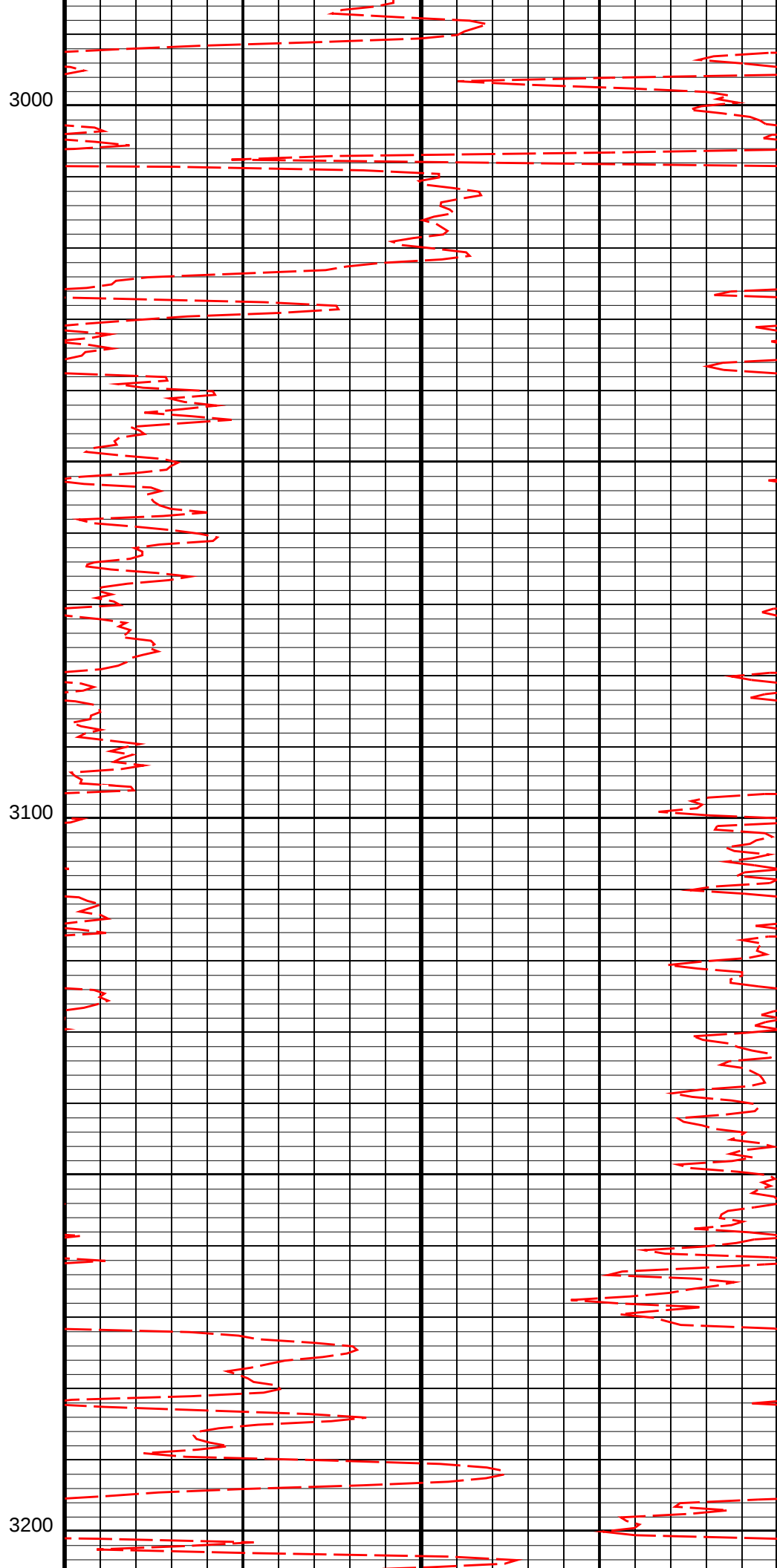
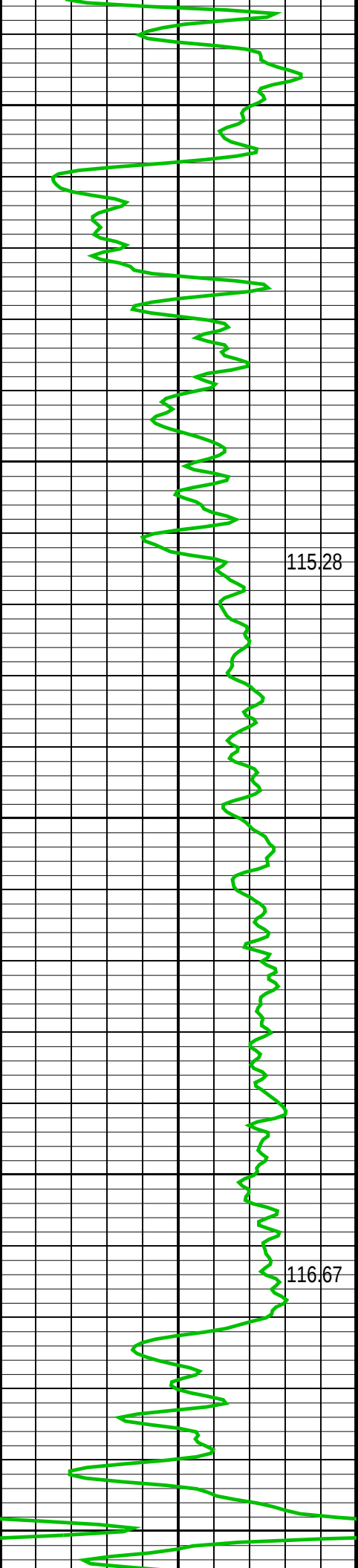
- └ Integrated Cement Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Hole Volume Minor Pip Every 10 F3

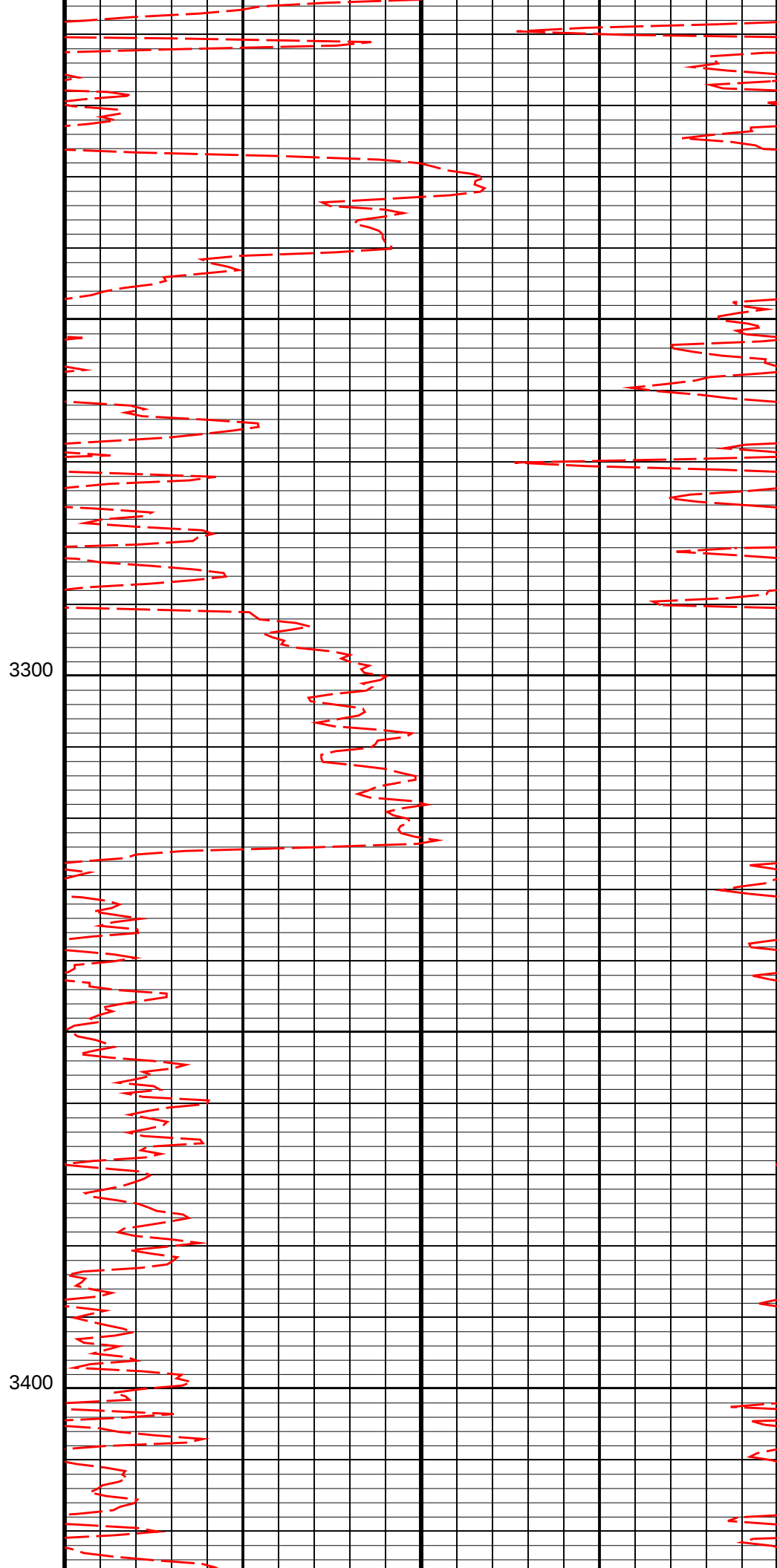
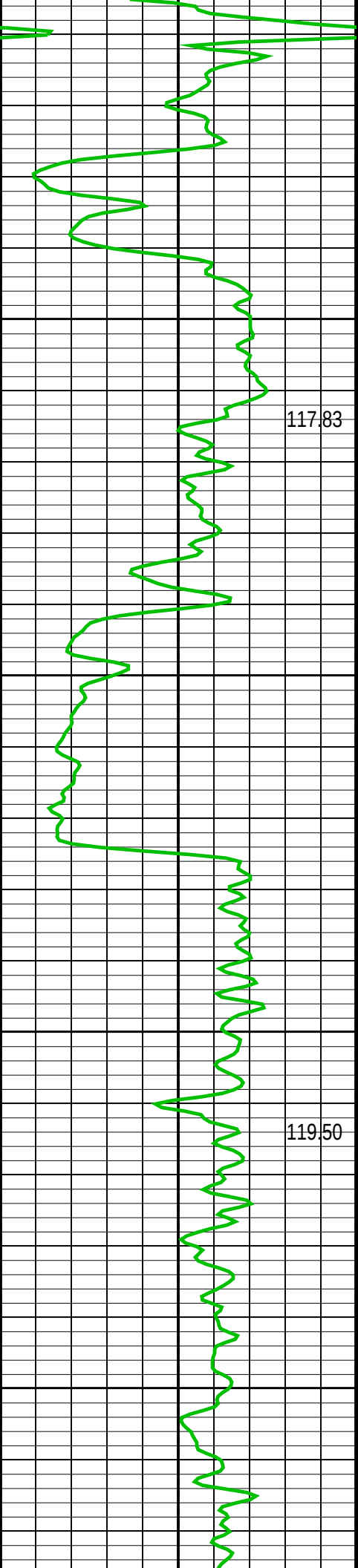
GR Temp (WTEP)
(DEGF)Gamma Ray (GR)
(GAPI) 0 150Caliper (CALI)
(IN) 4 14Bit Size (BS)
(IN) 4 14Relative Bearing (RB)
(DEG) 0 360TNPH (TNPH)
(%) 30 -10PEF (PEF)
(-----) 0 10DRHO (DRHO)
(G/C3) -0.5 0.5DPHI (DPHI)
(PU) 30 -10

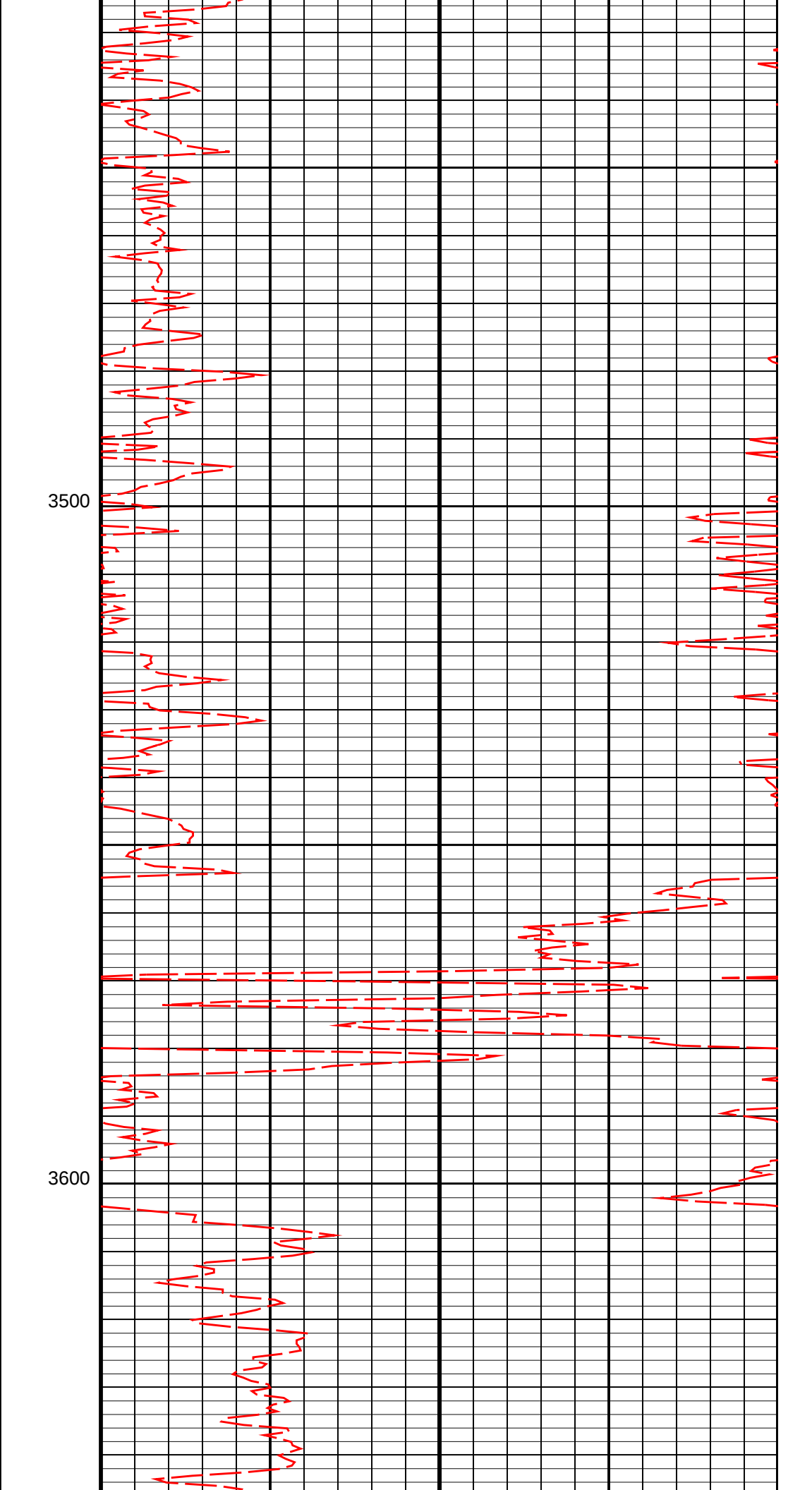
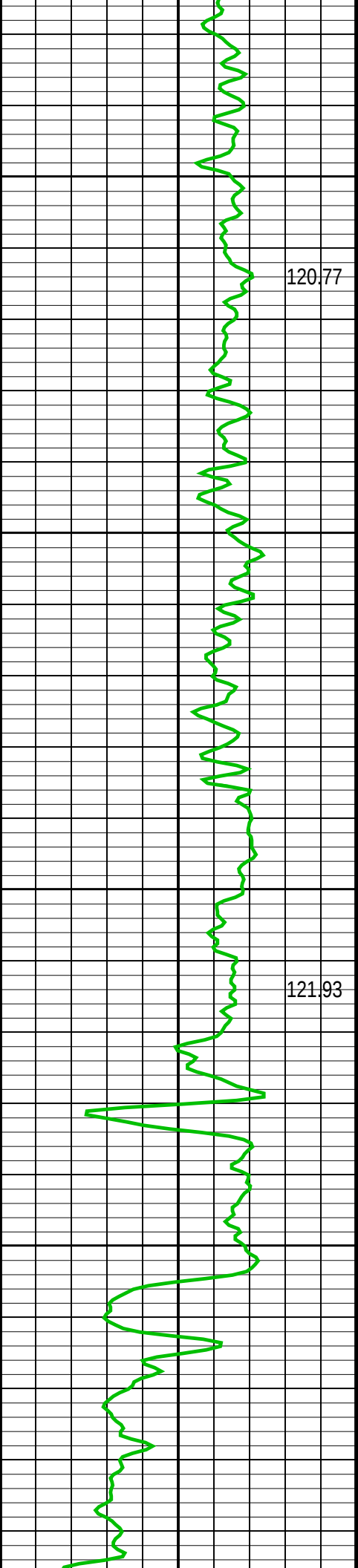
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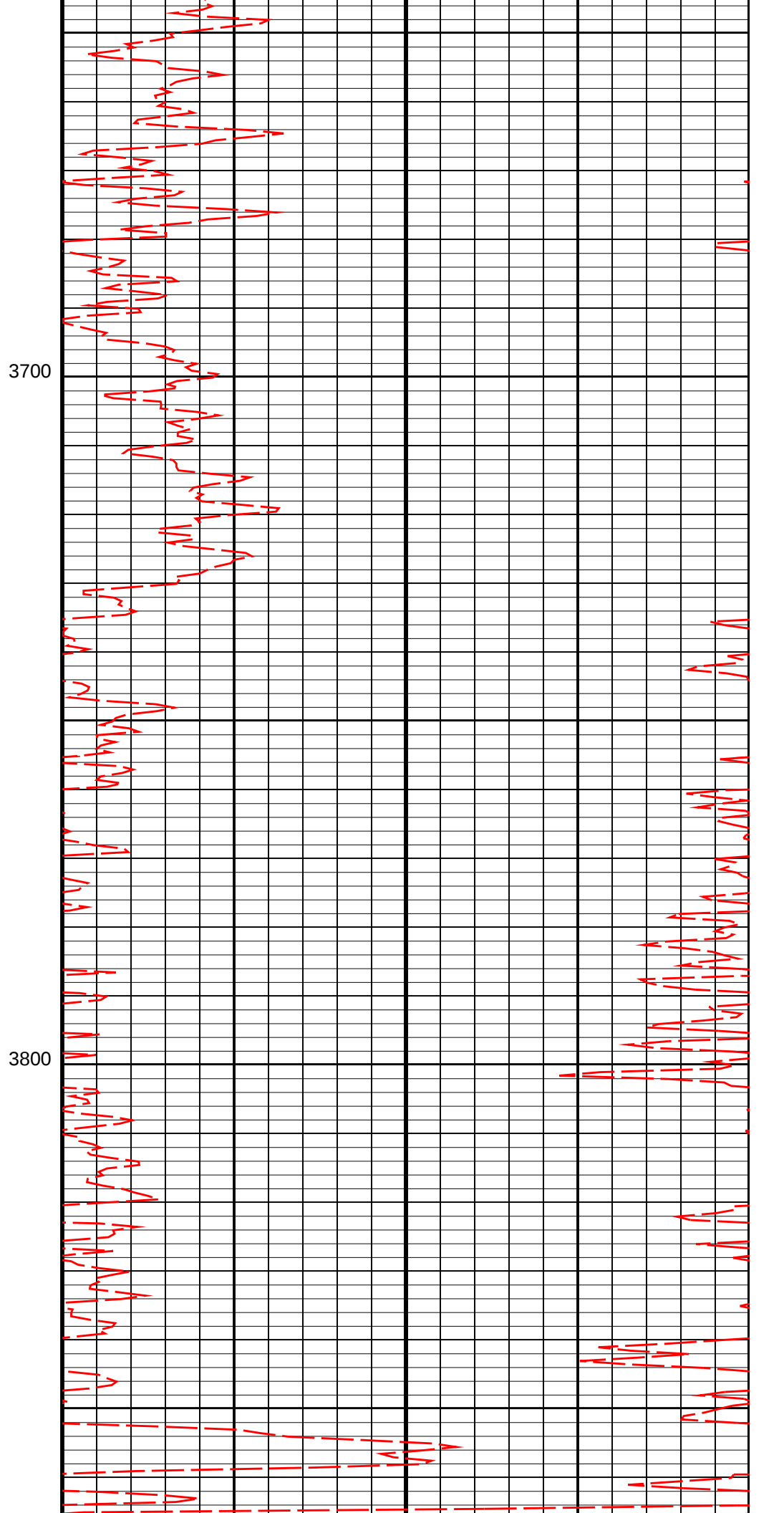
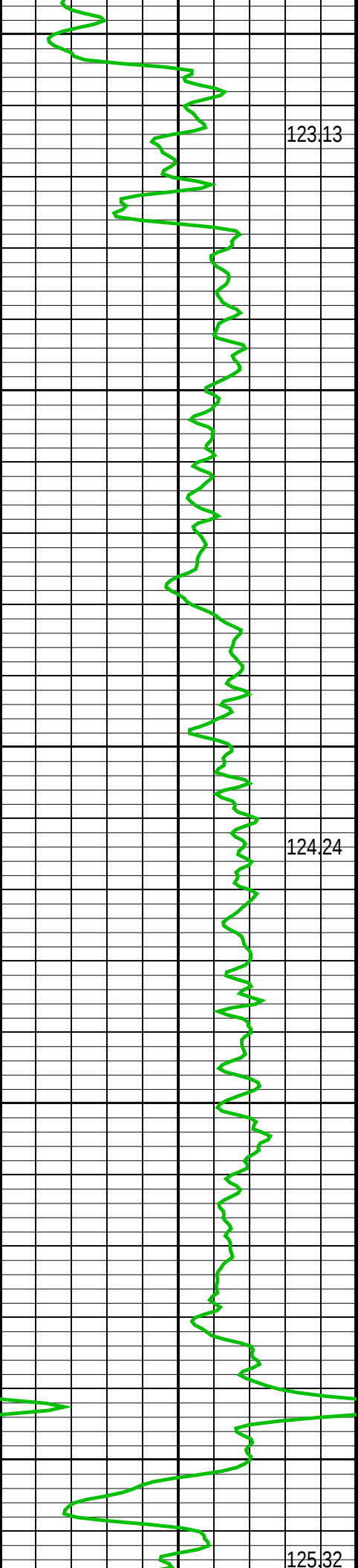
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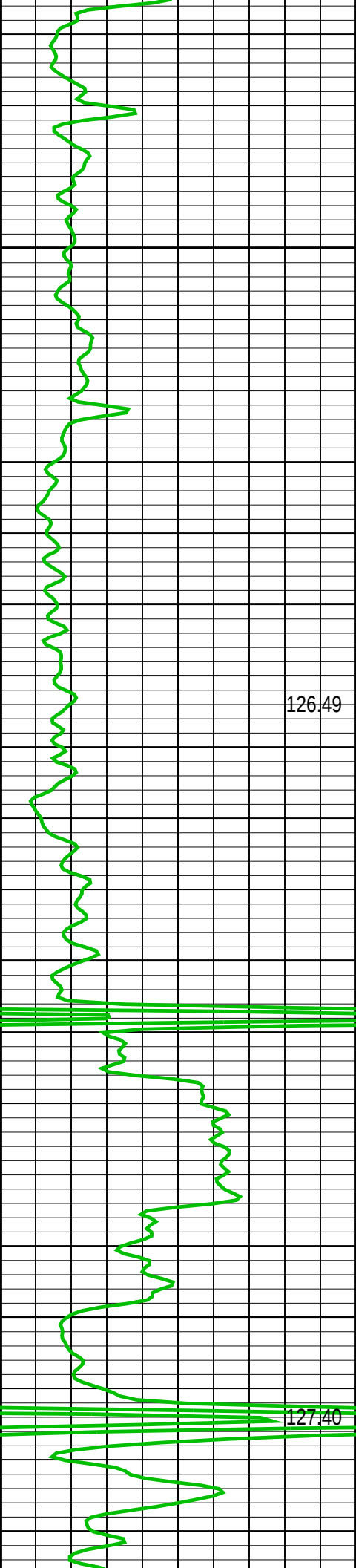






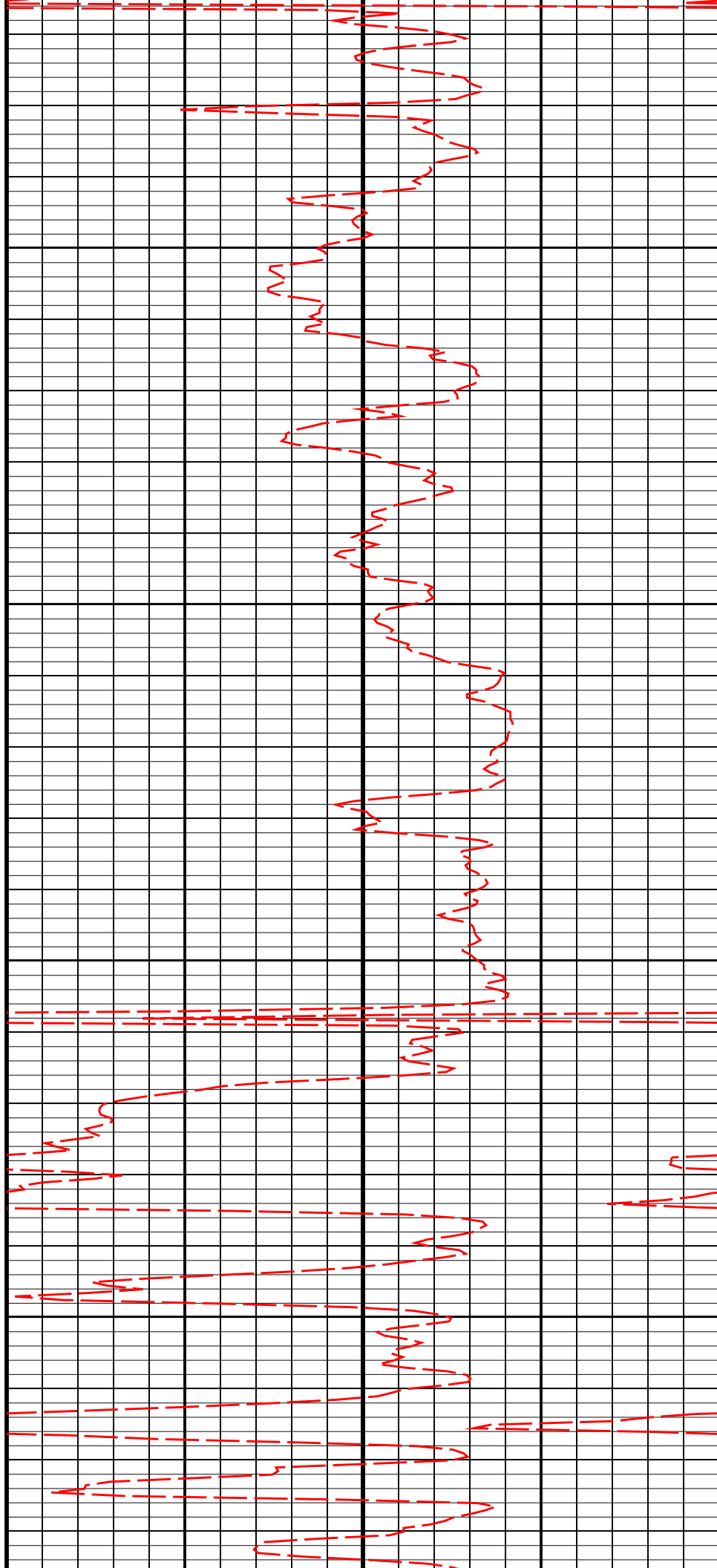


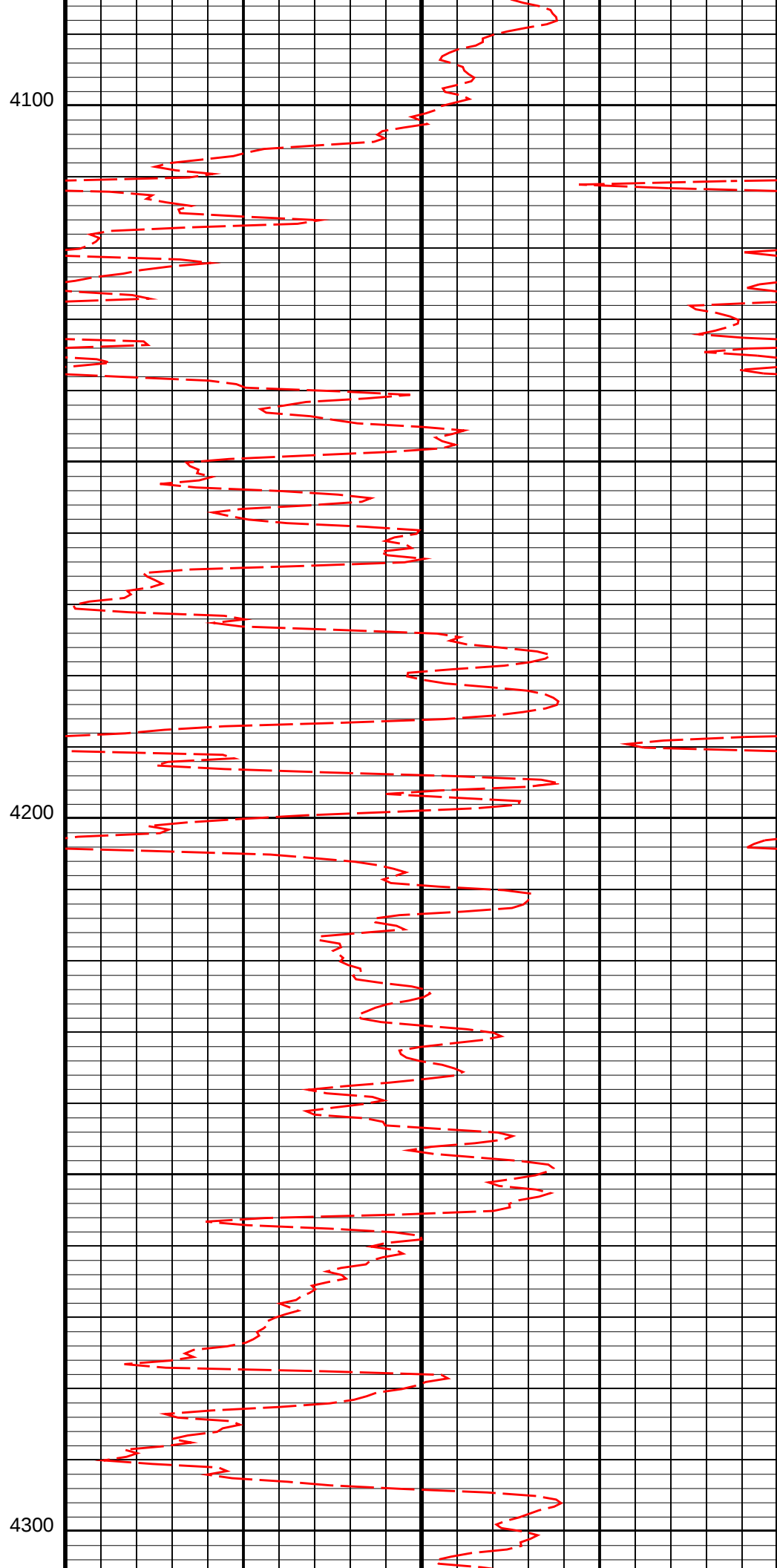
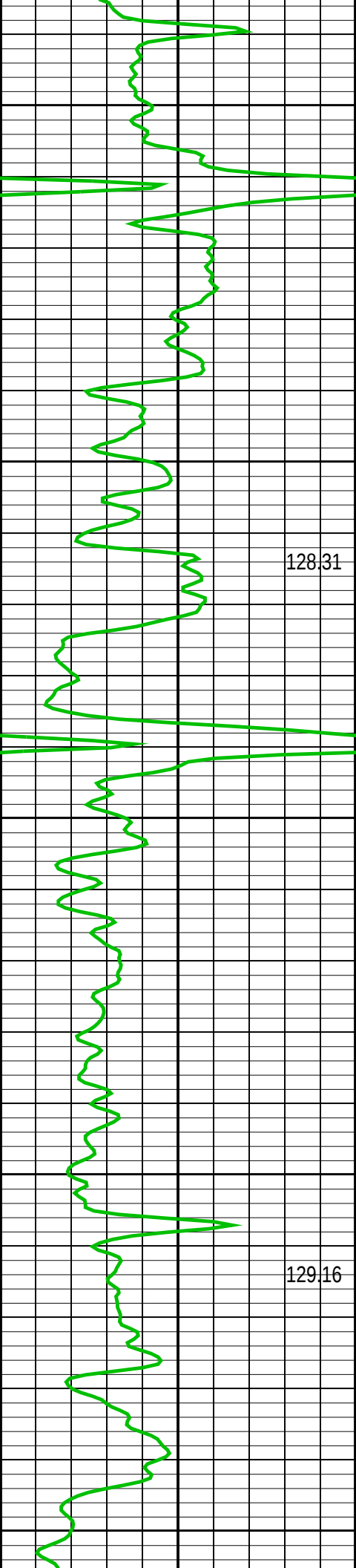


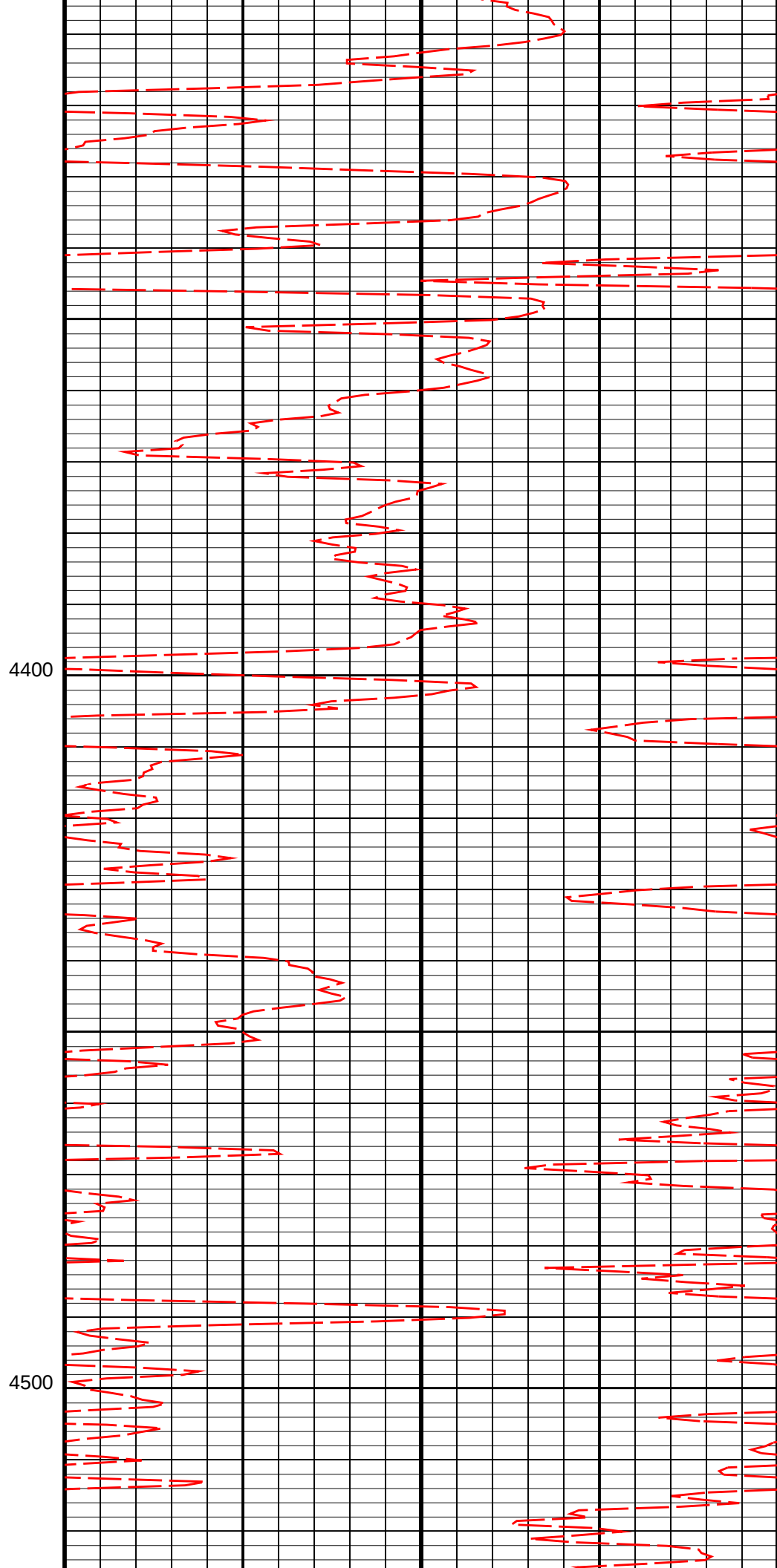
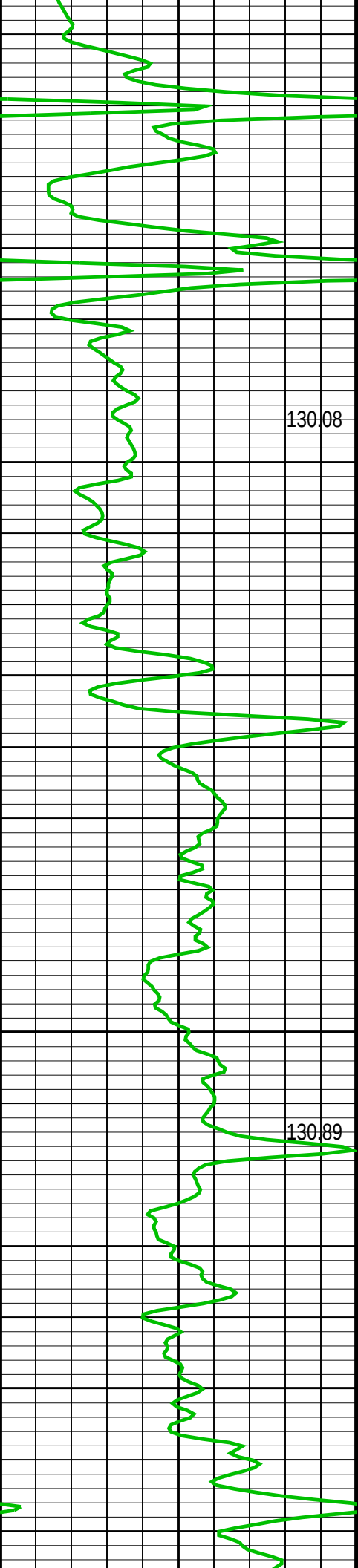


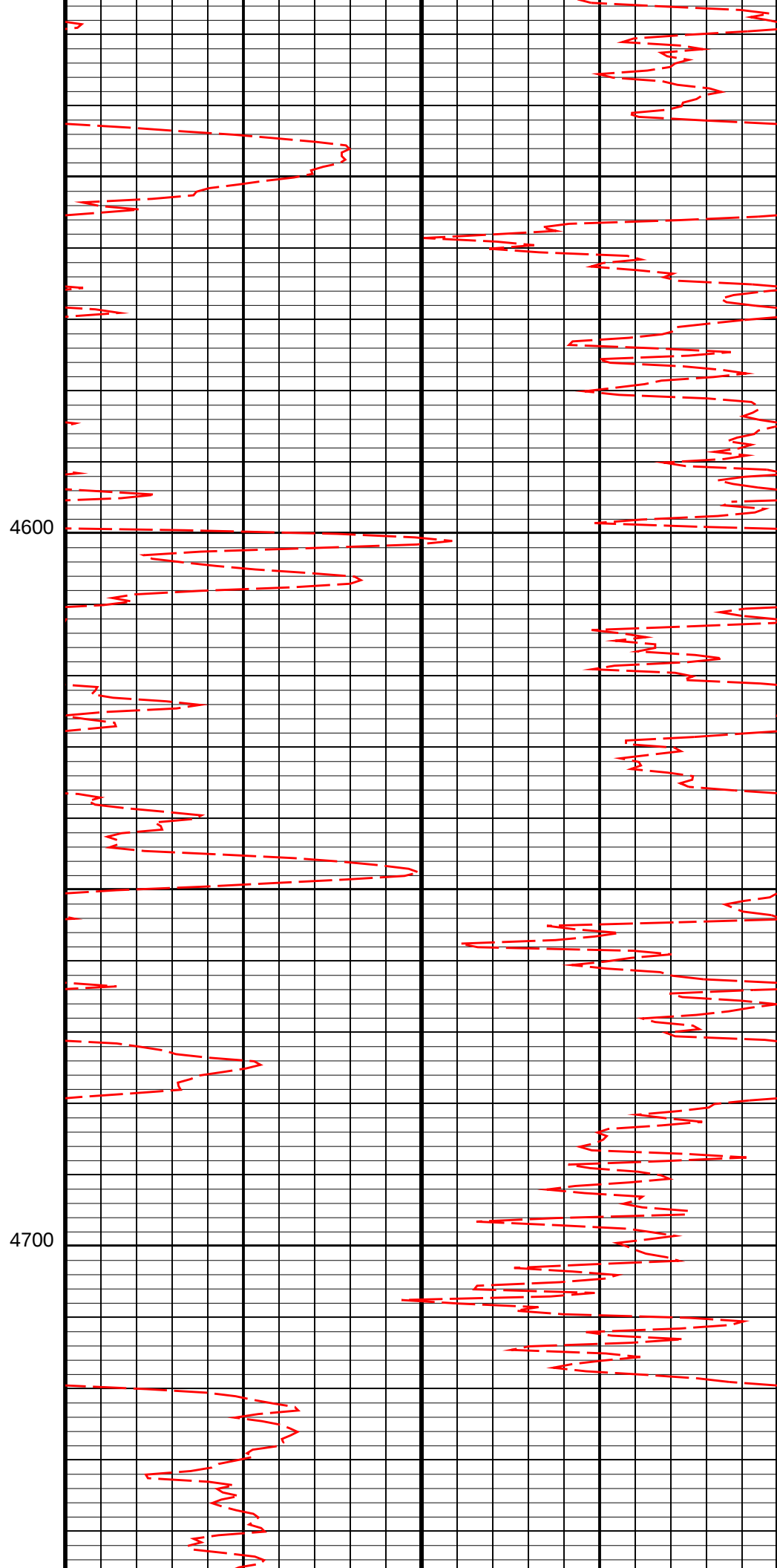
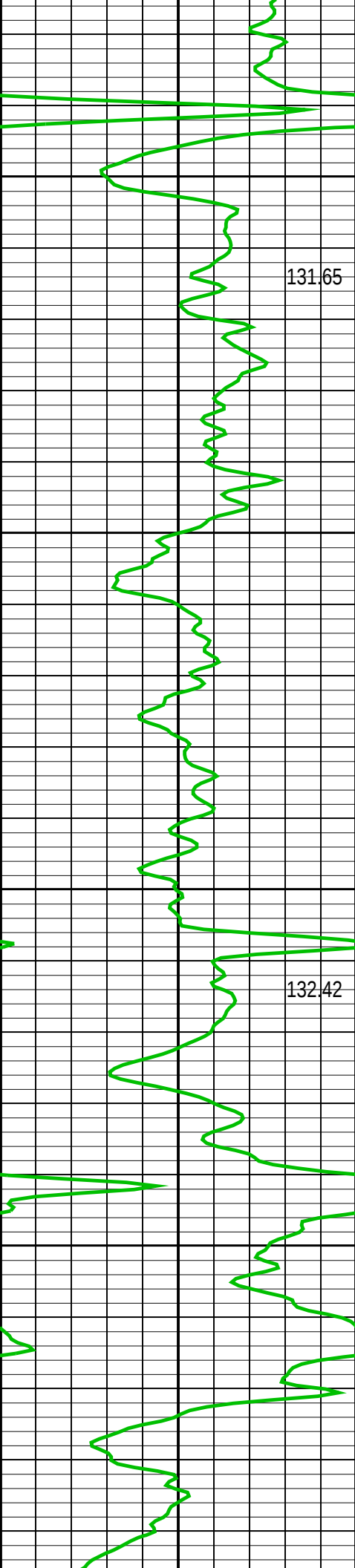
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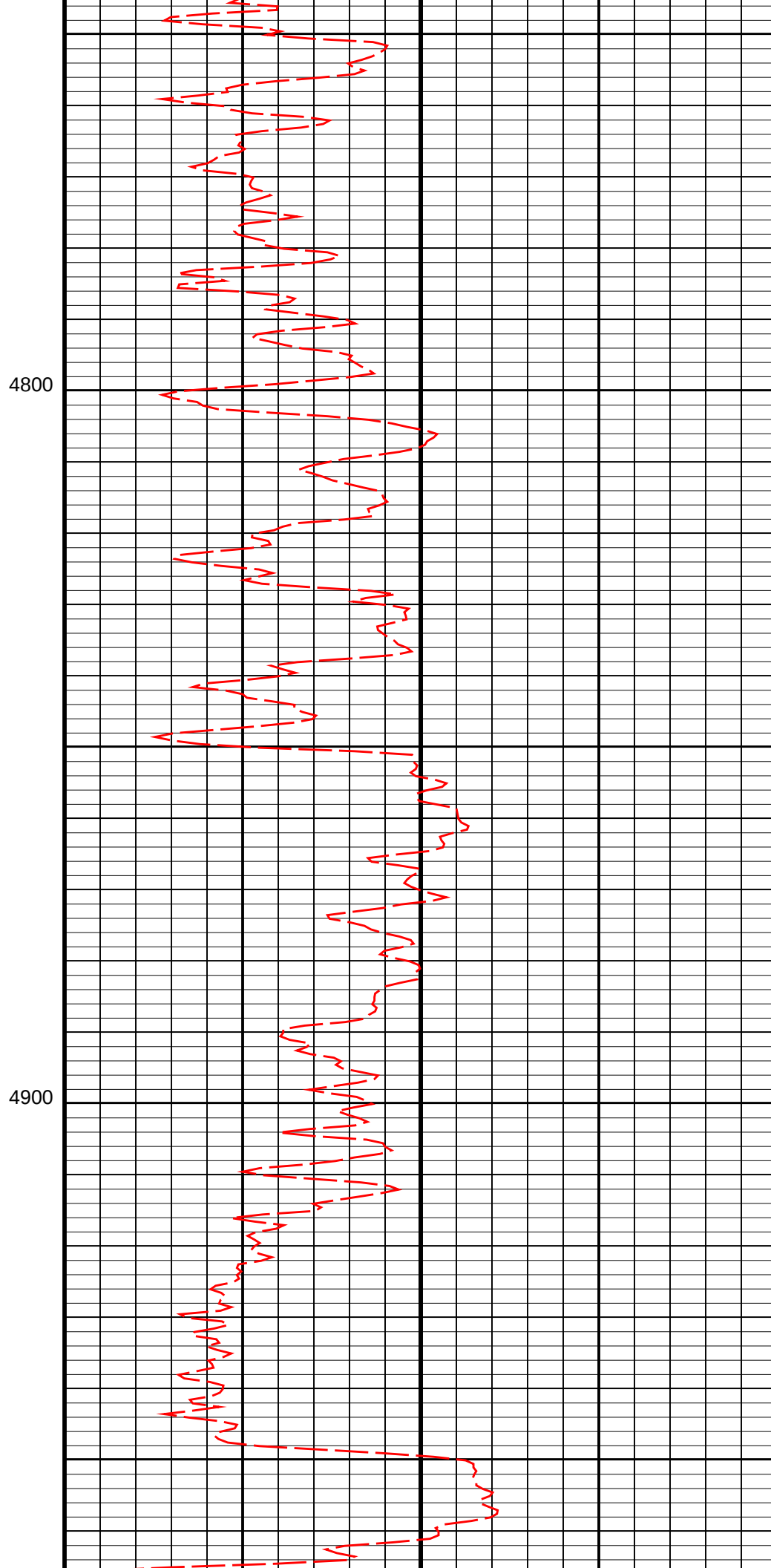
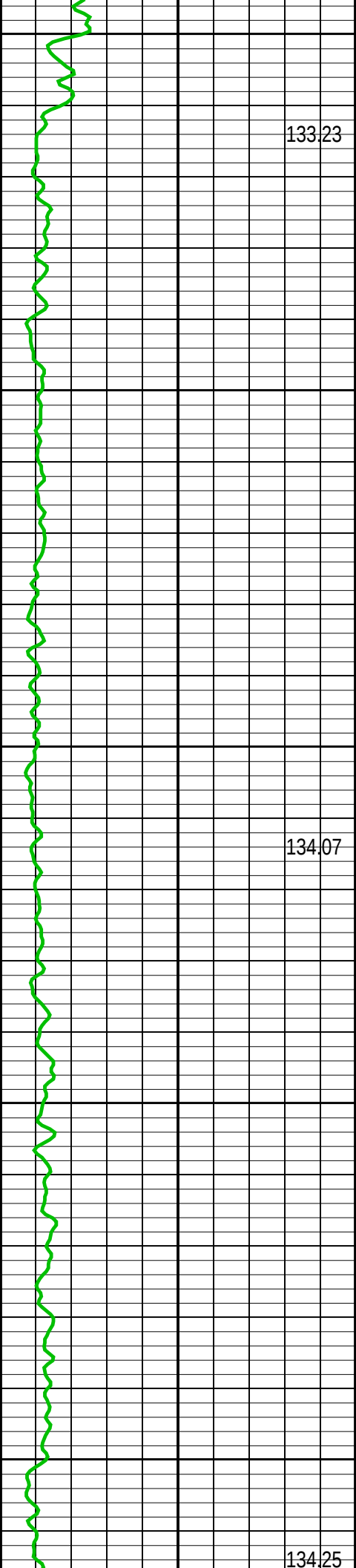
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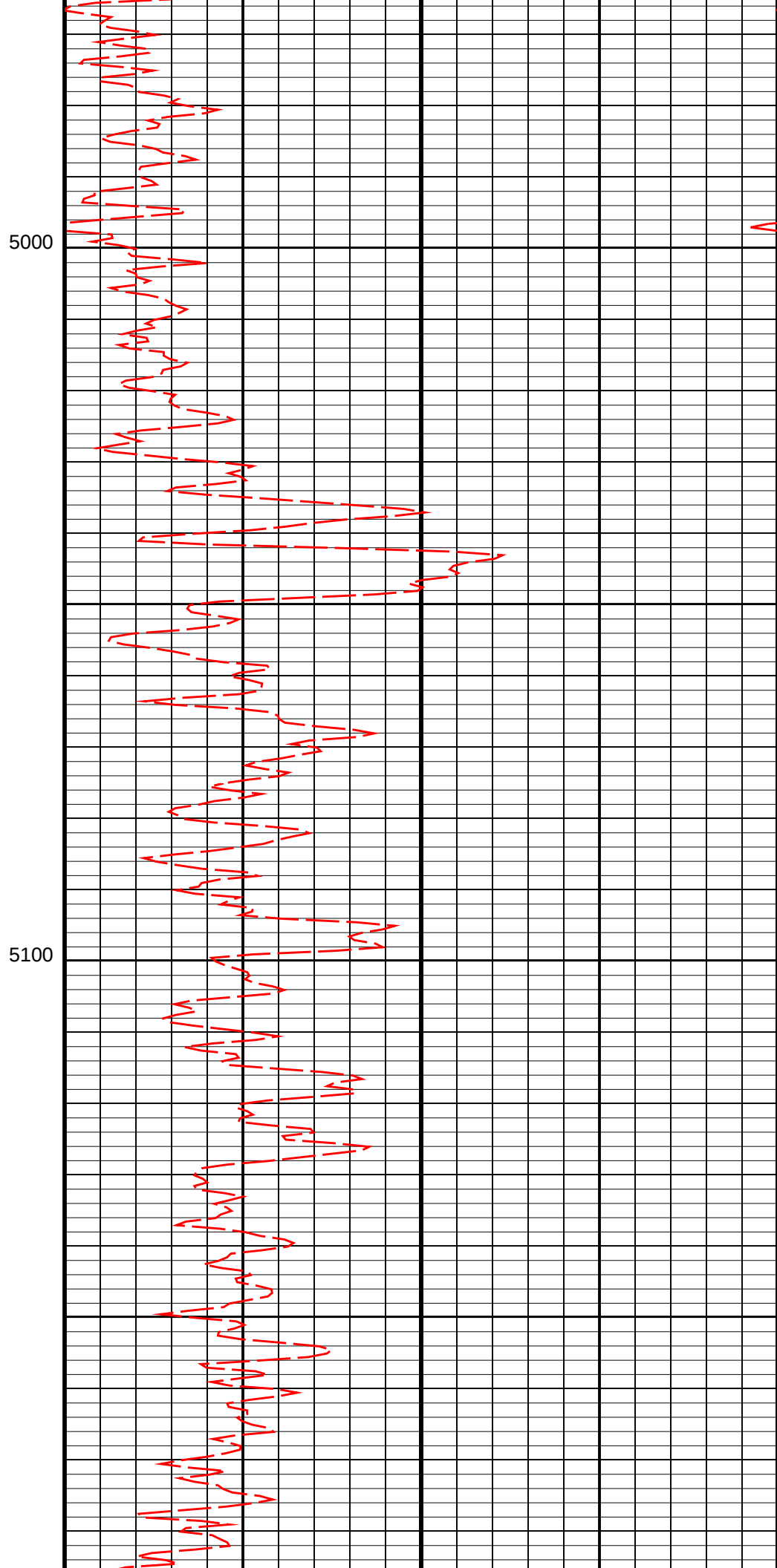
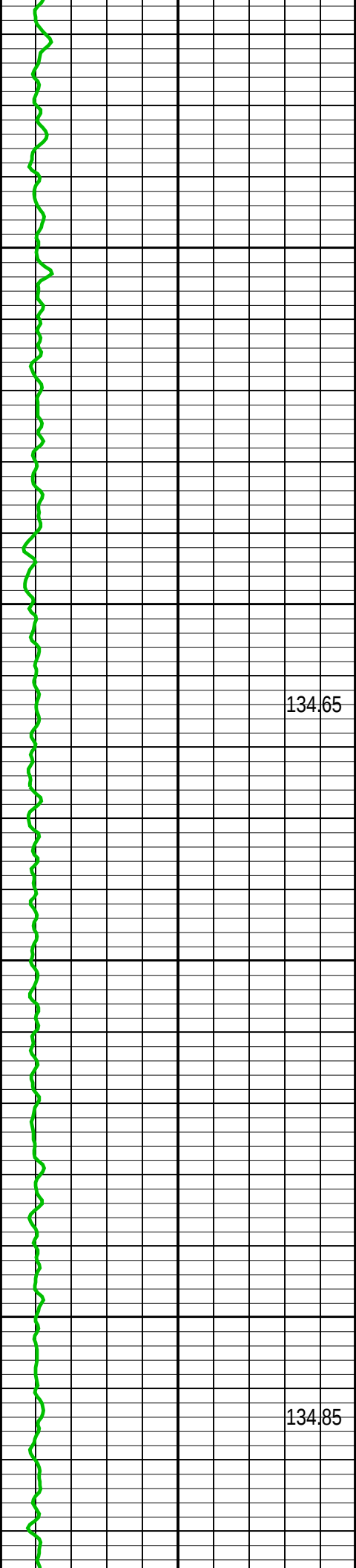


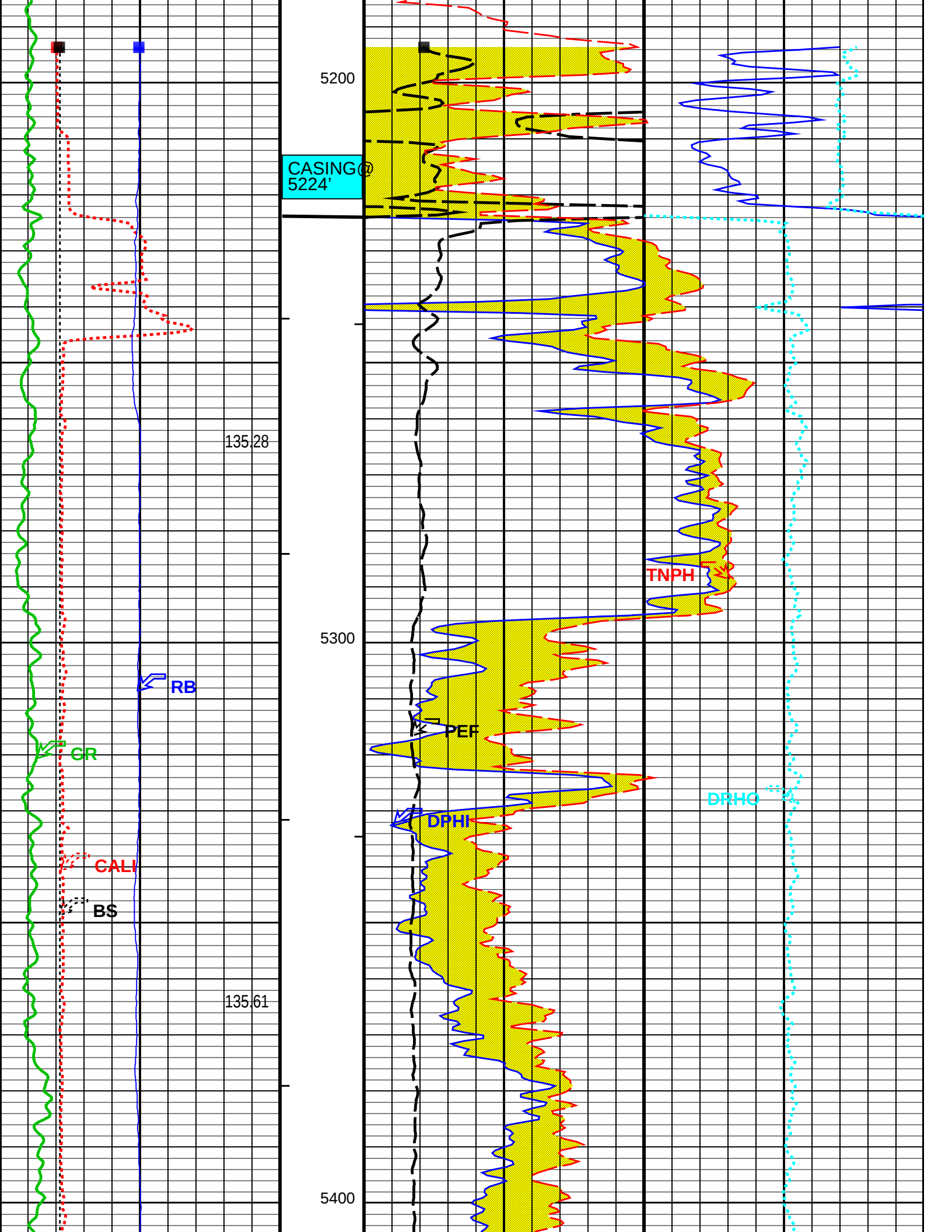


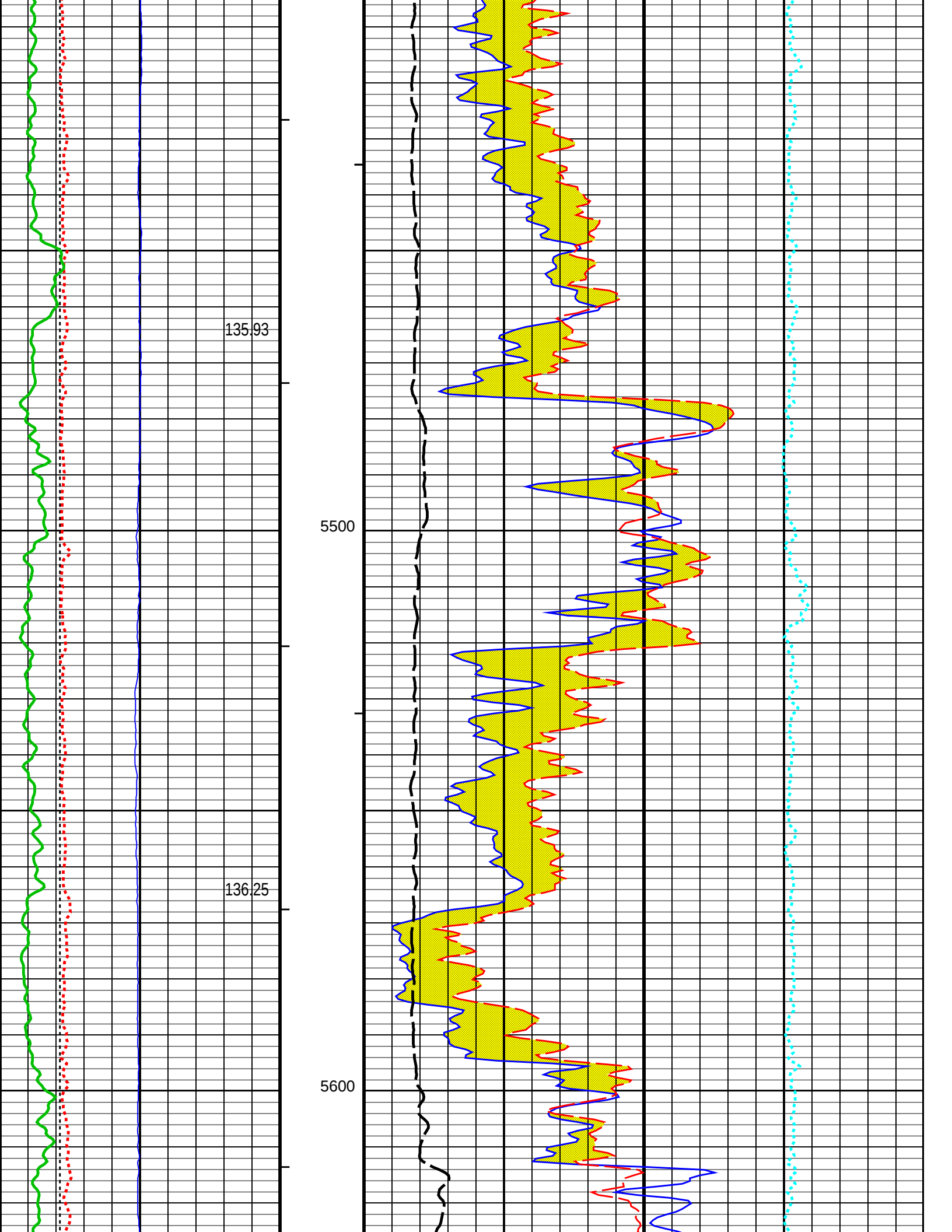


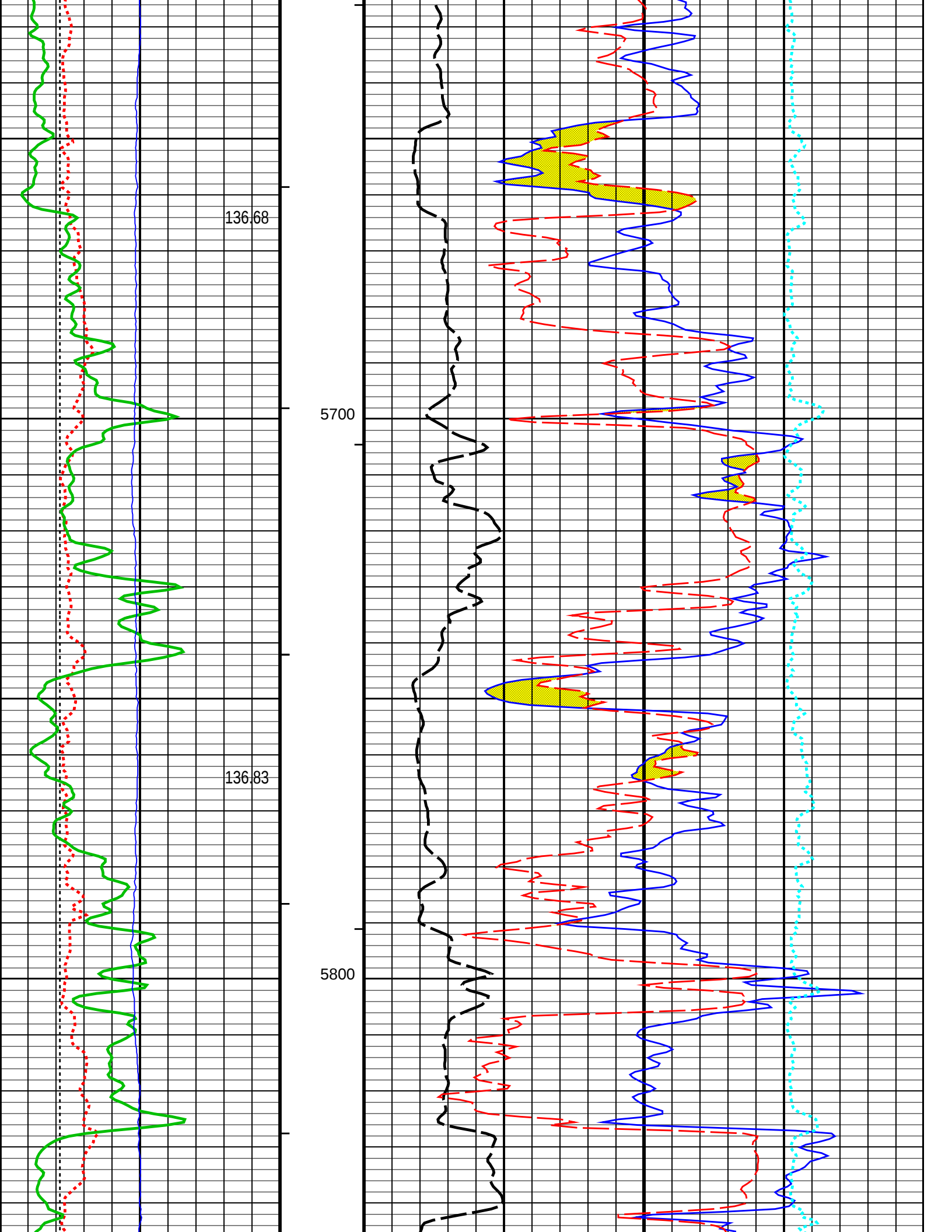


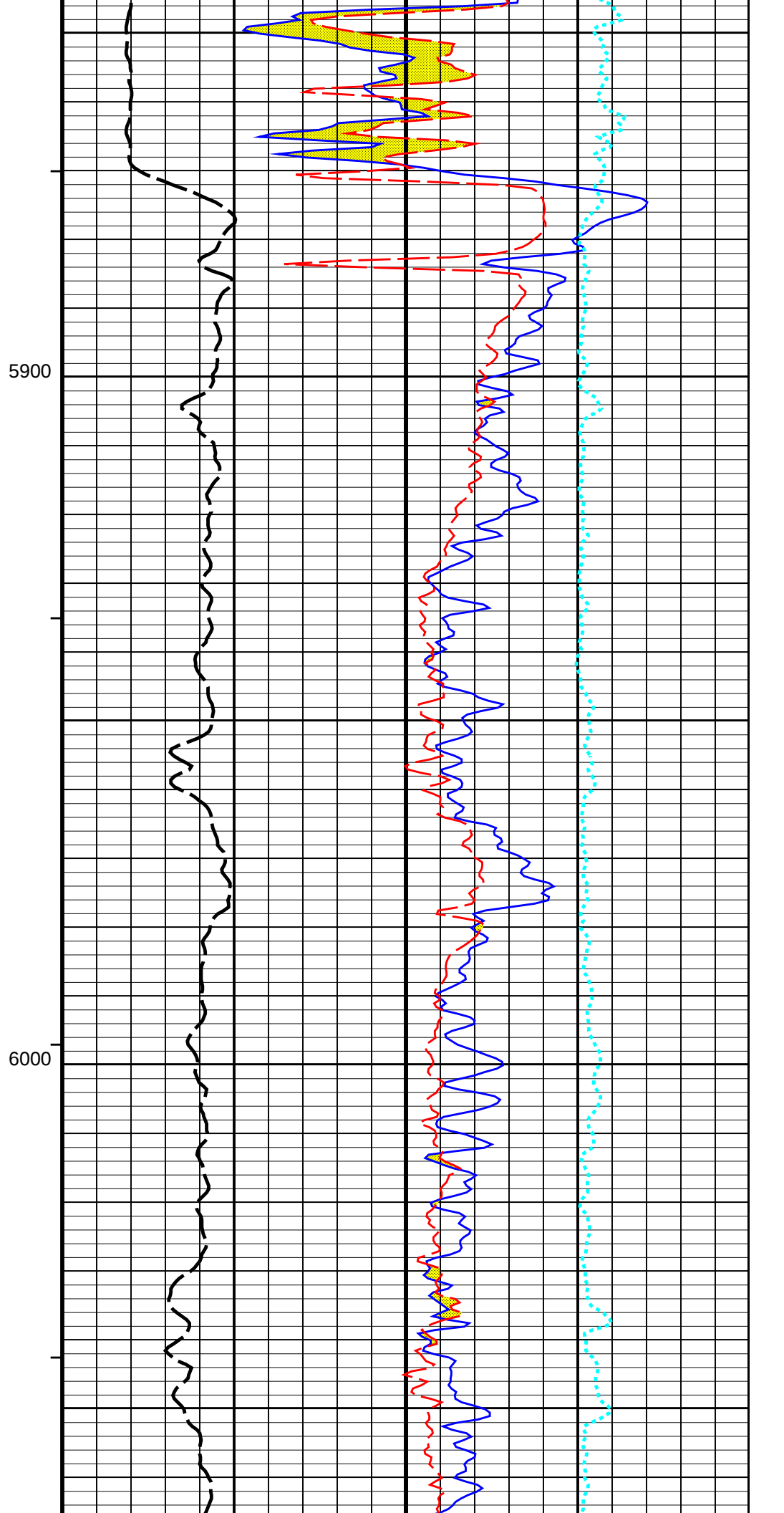
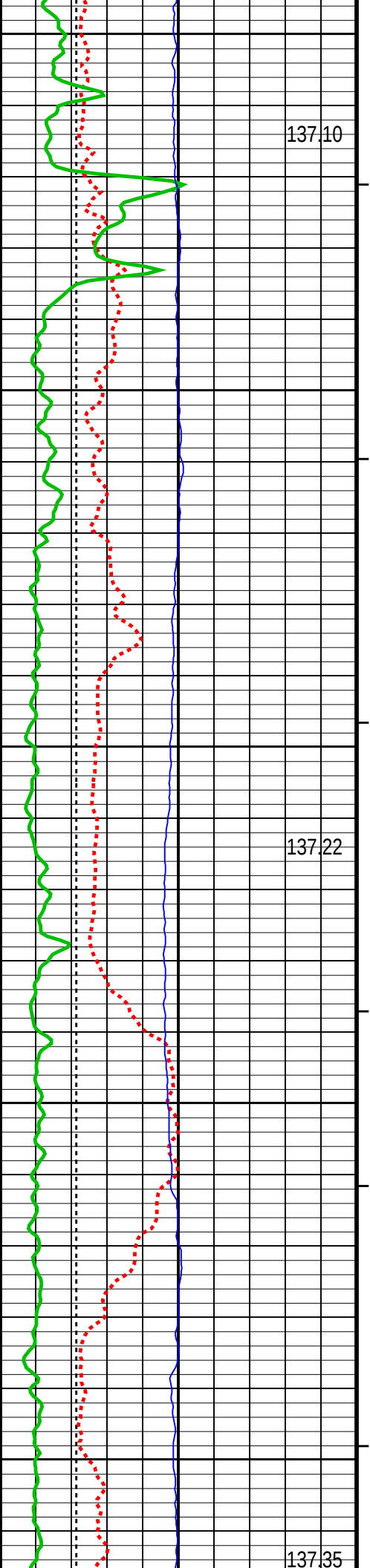


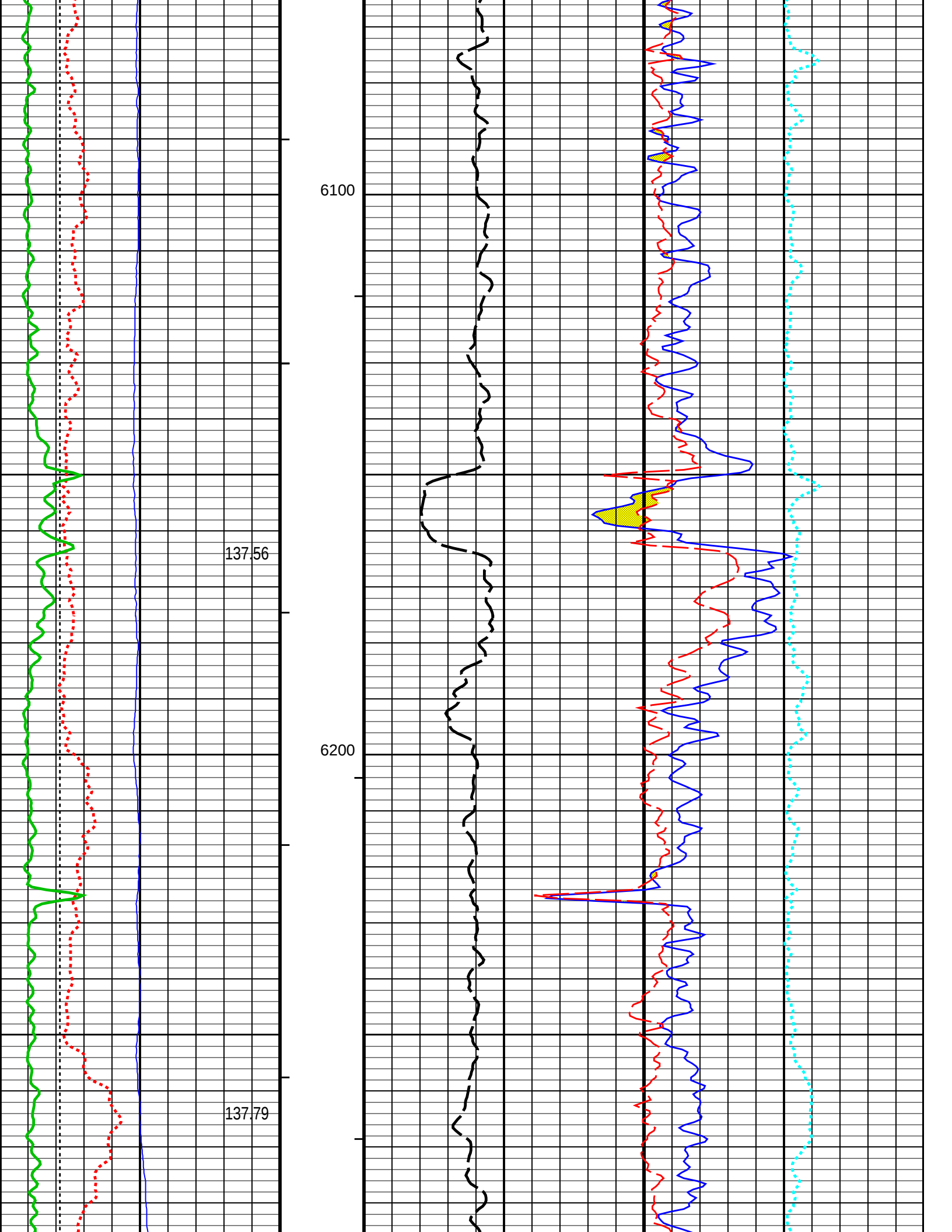


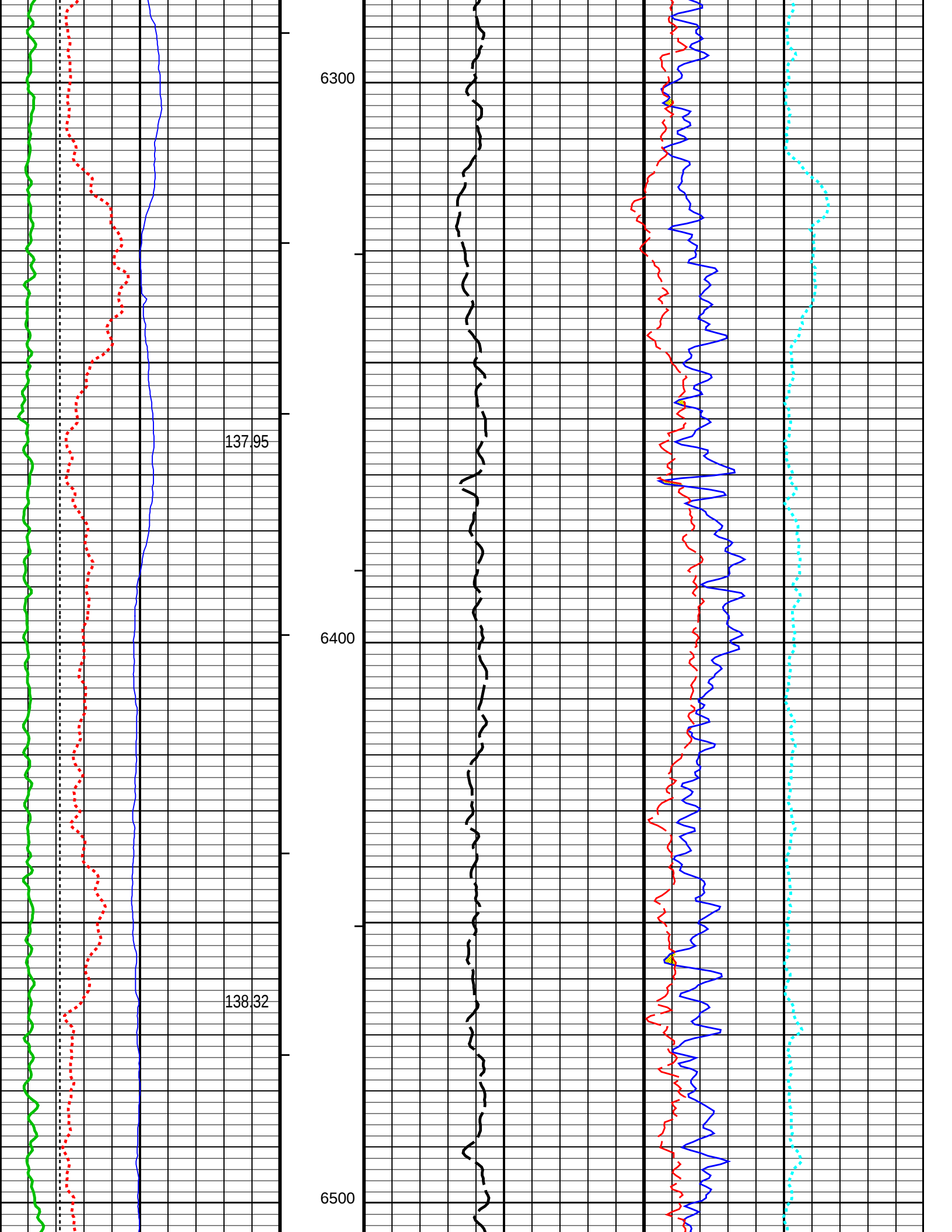


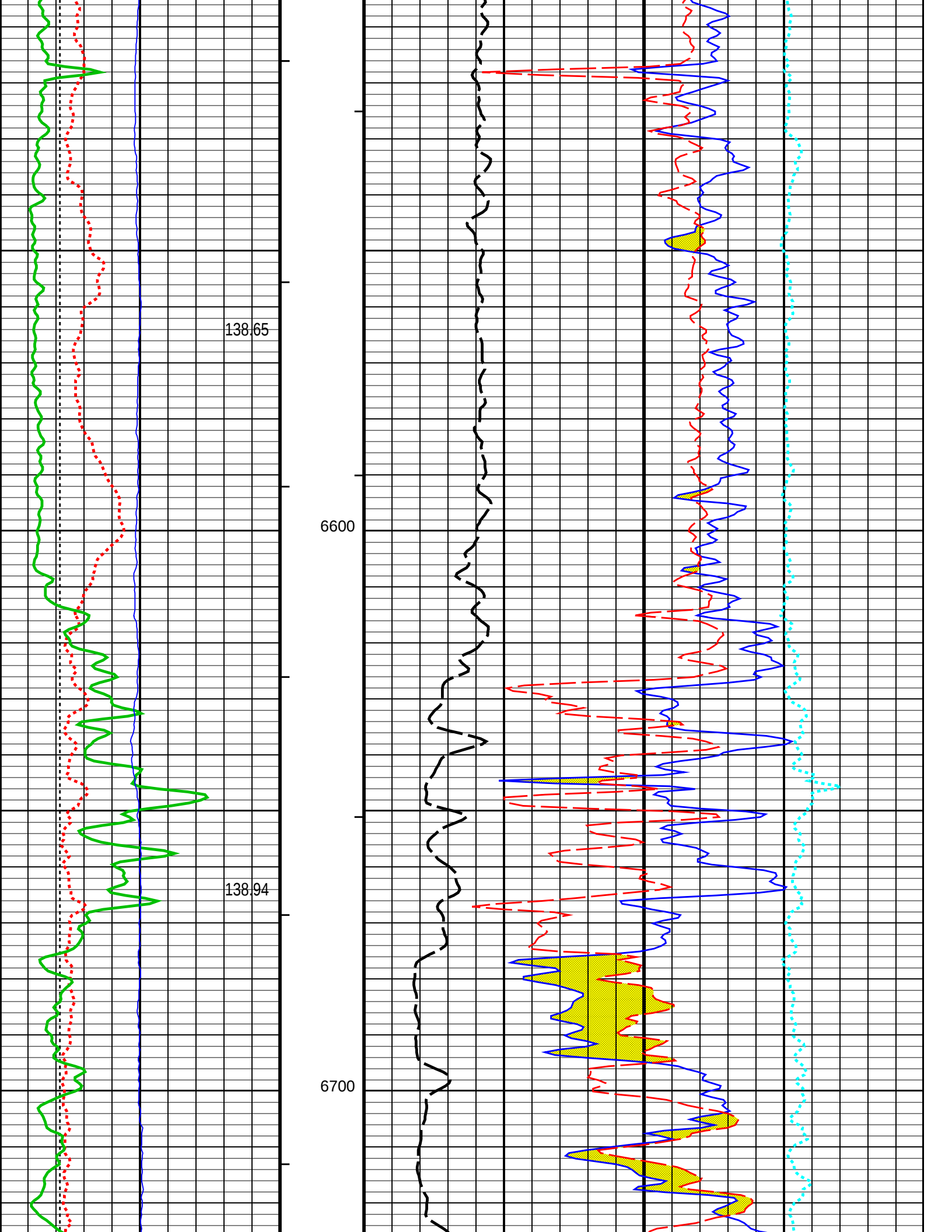


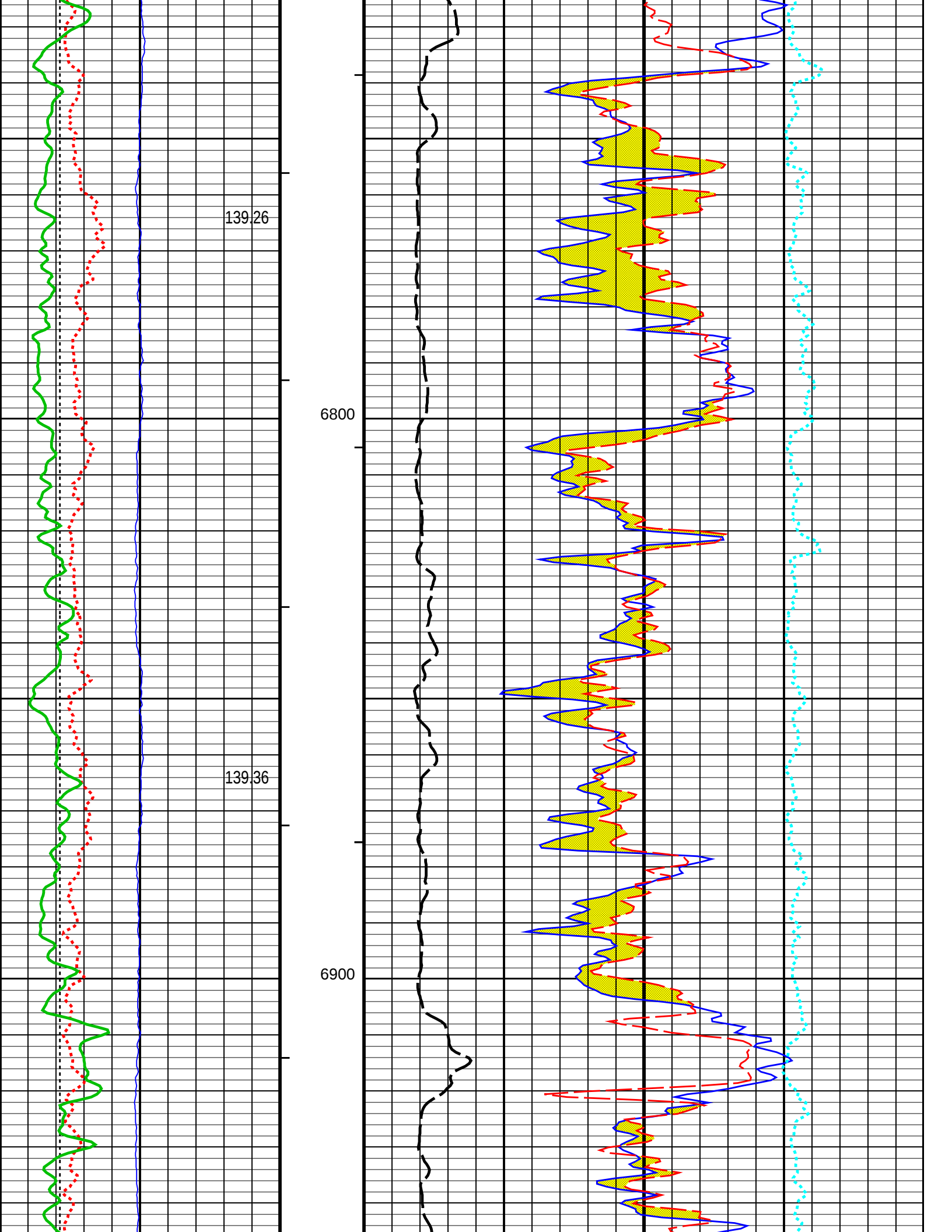


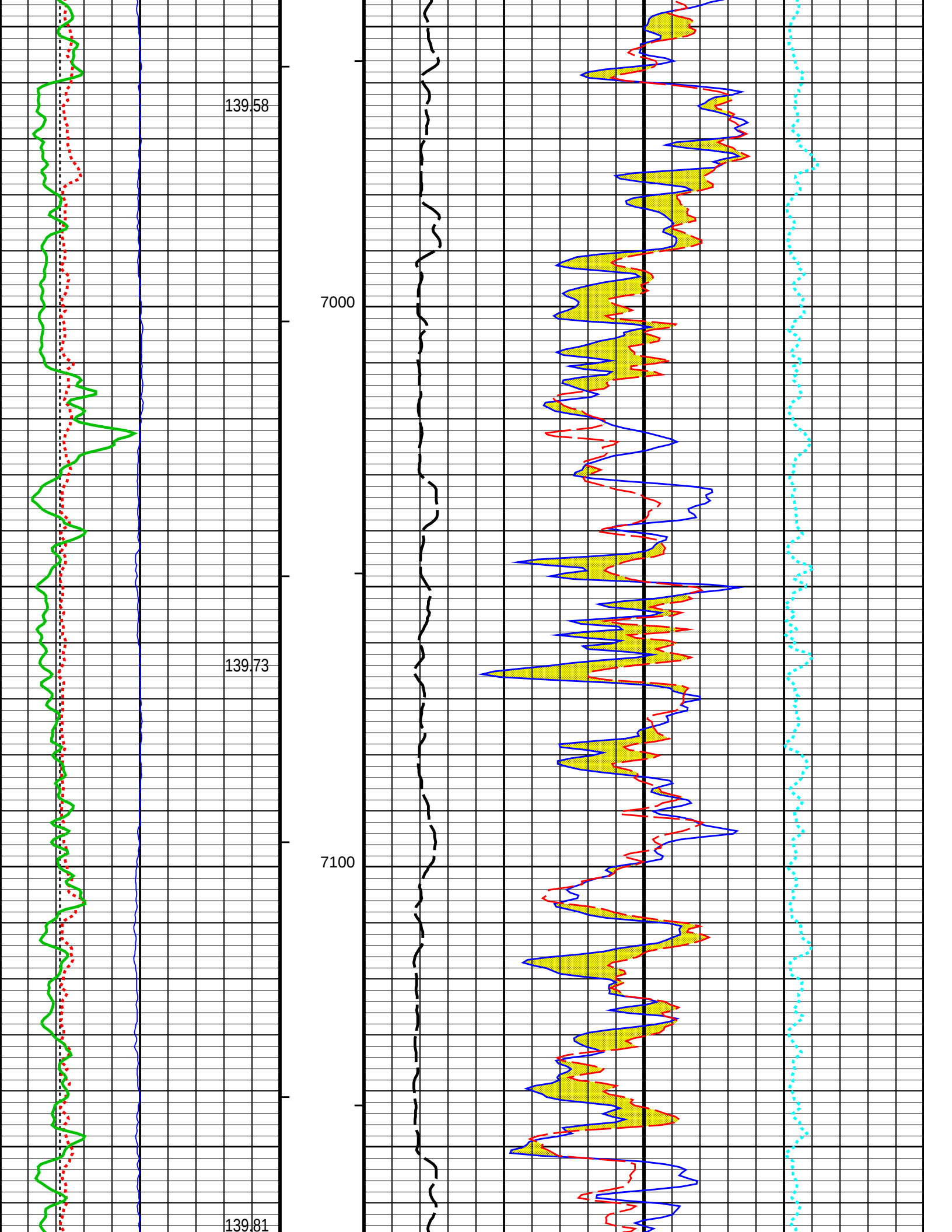


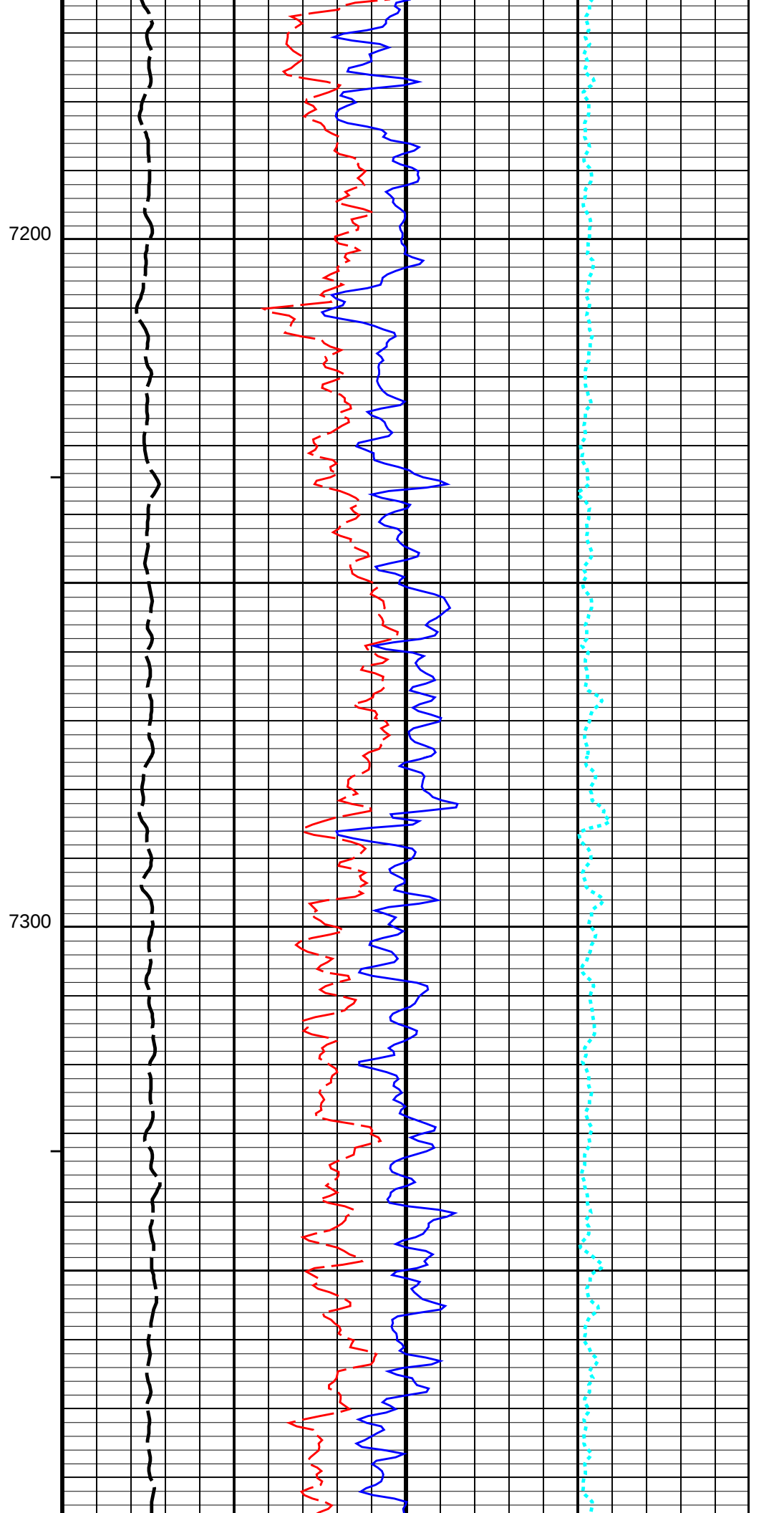
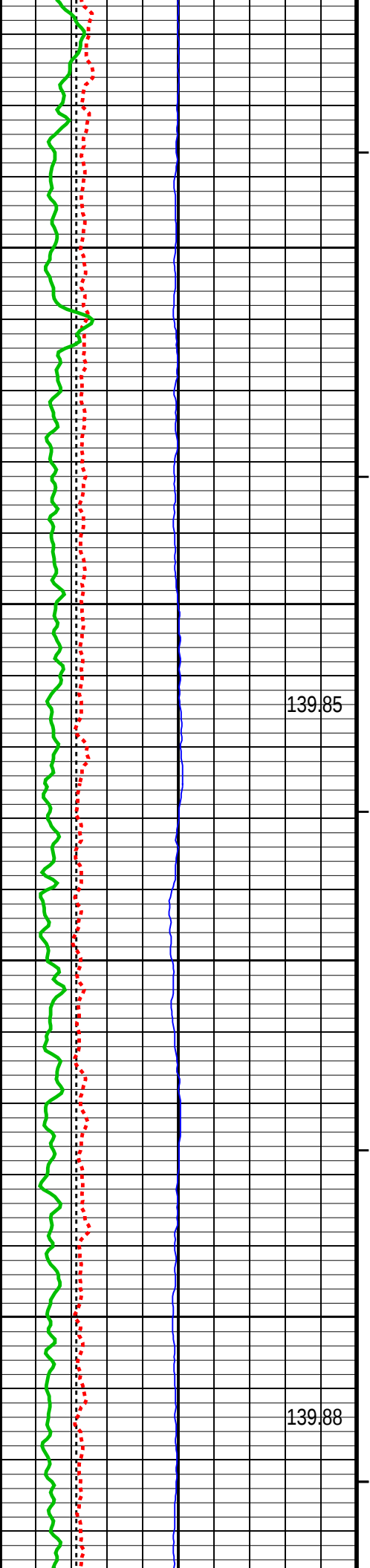


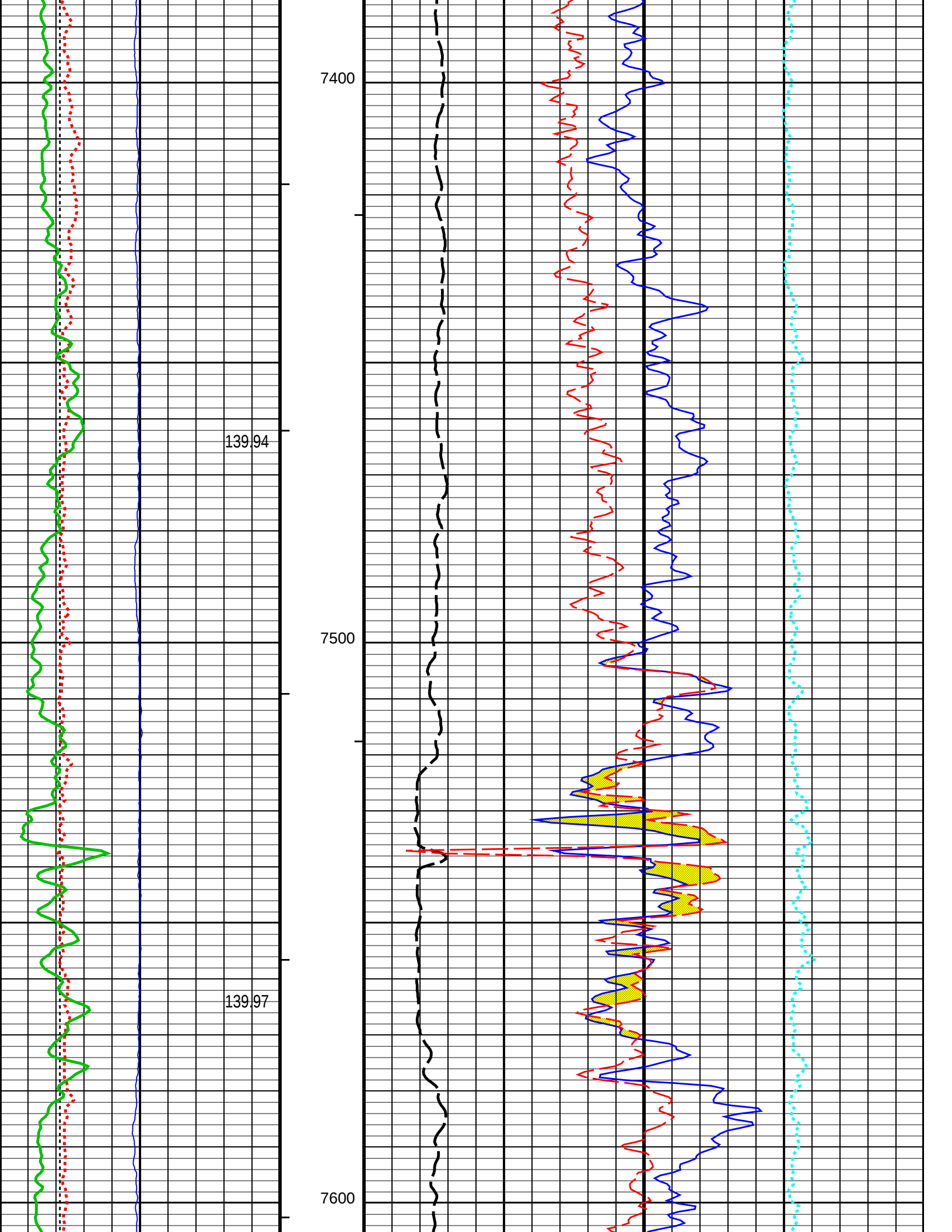


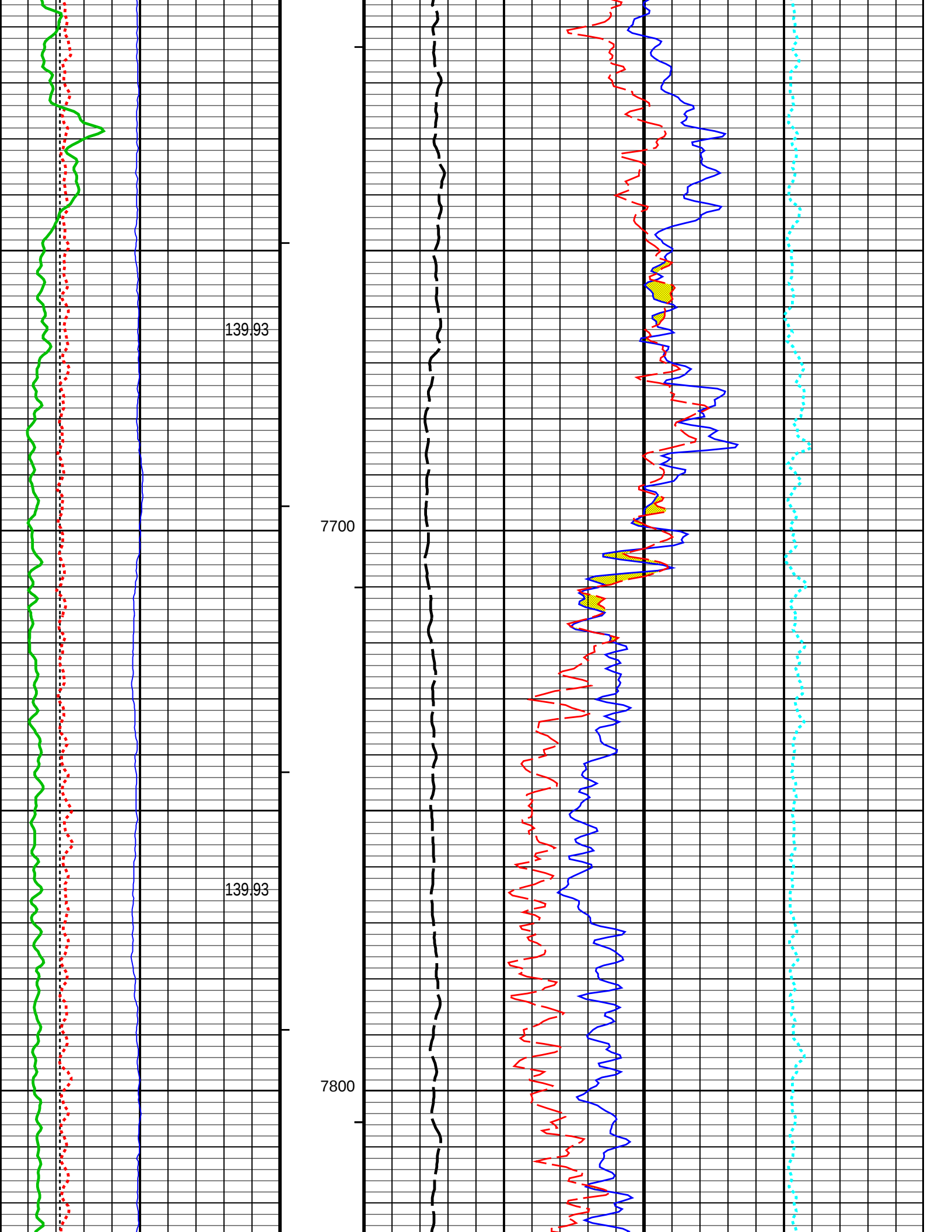


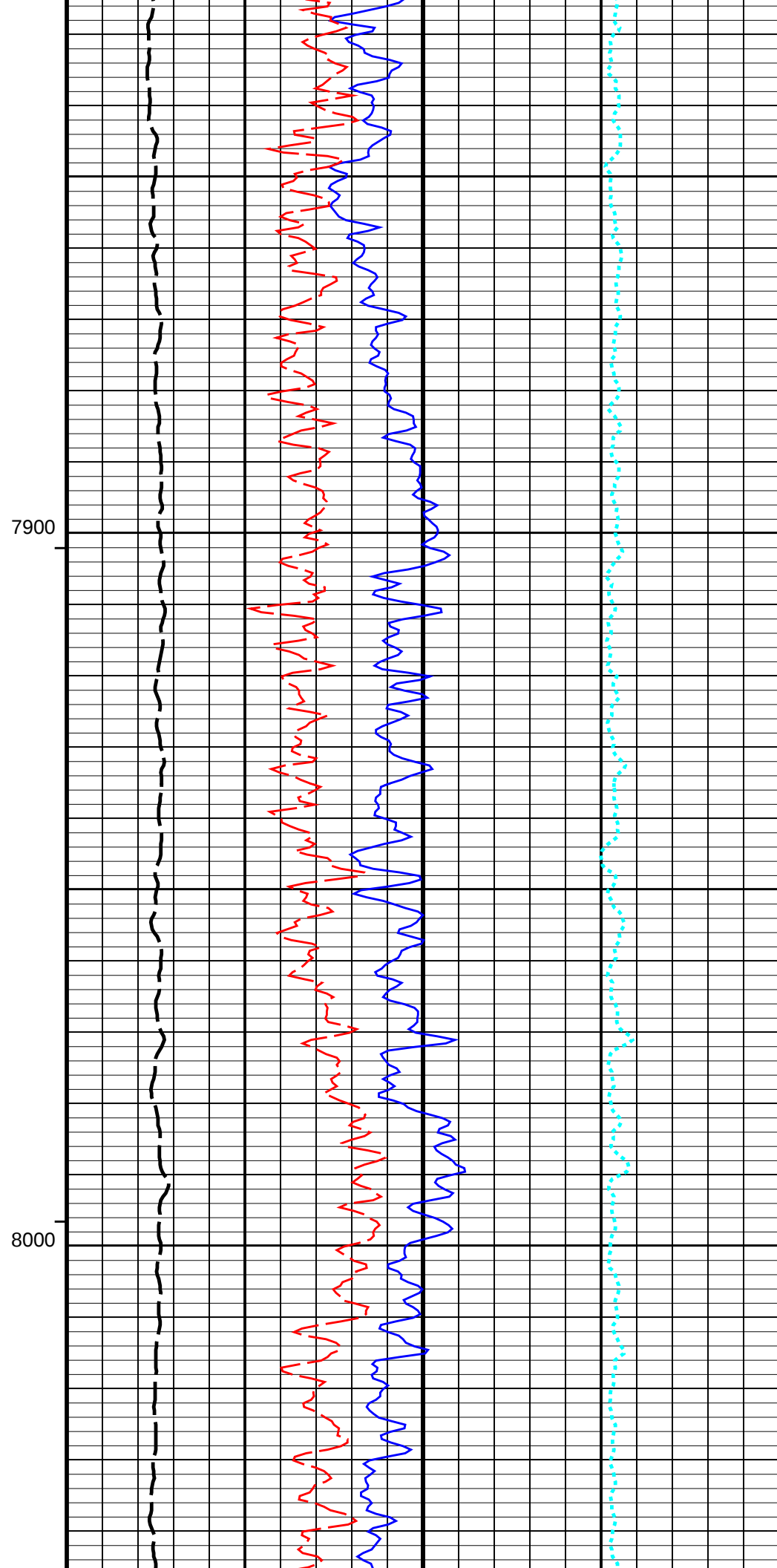
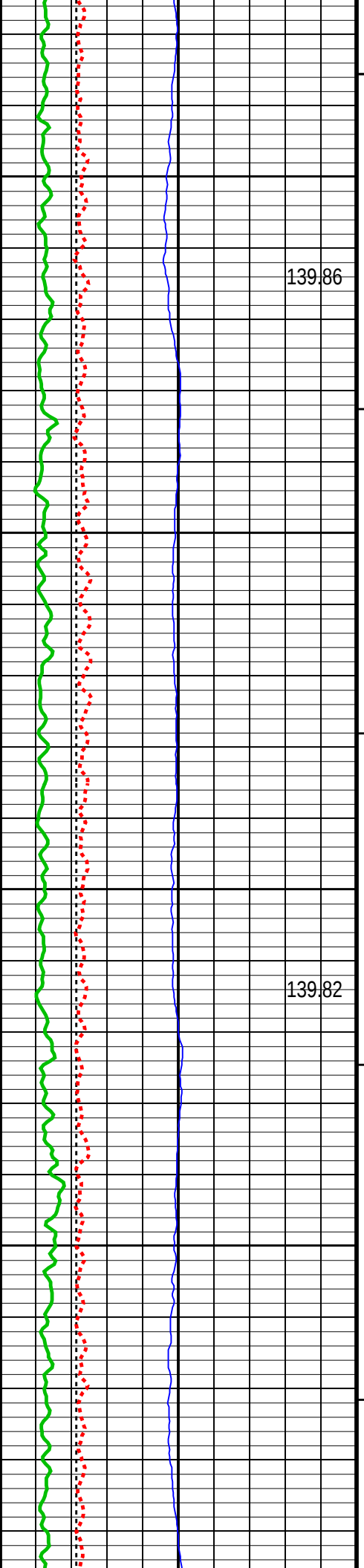


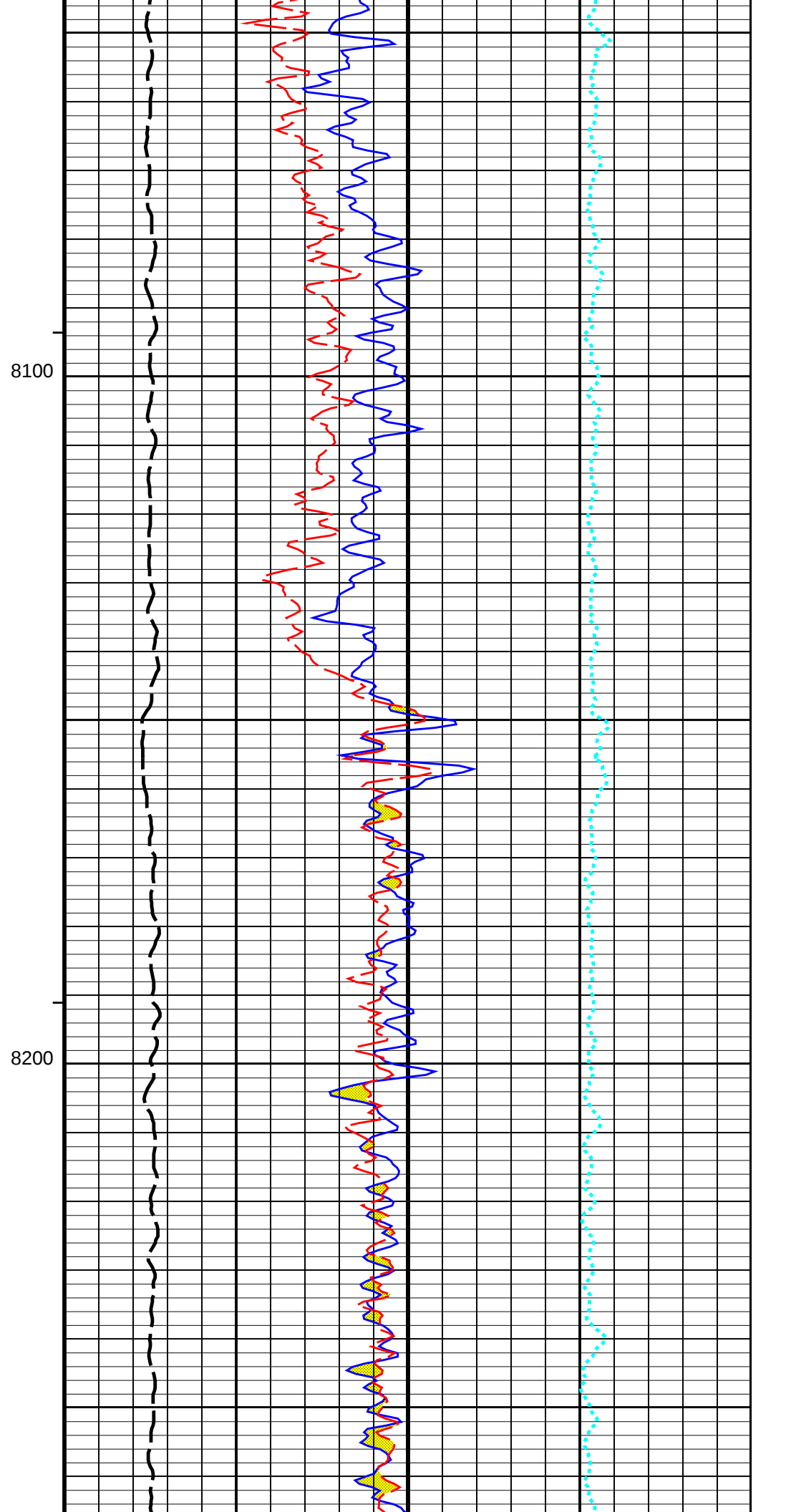
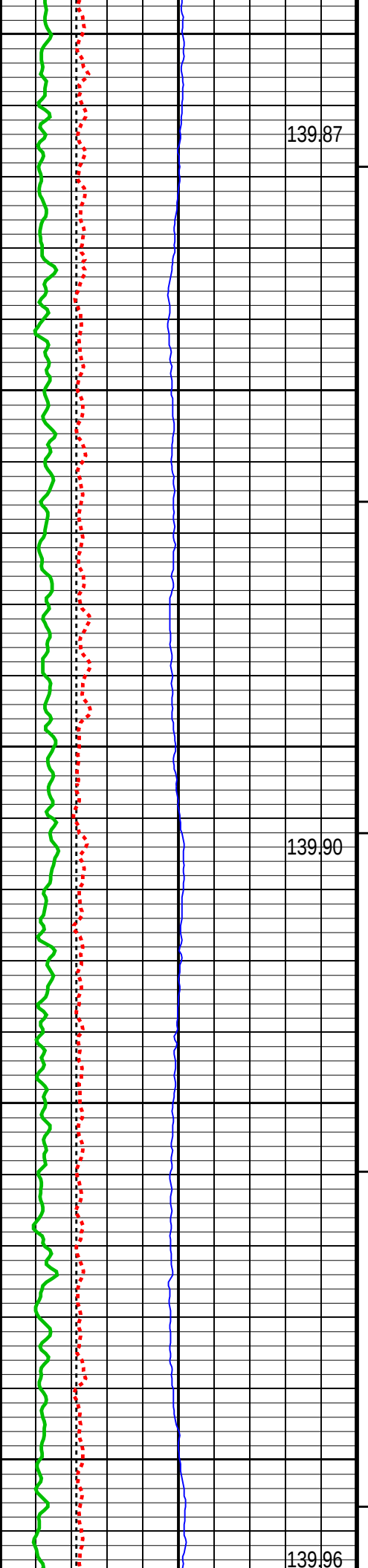


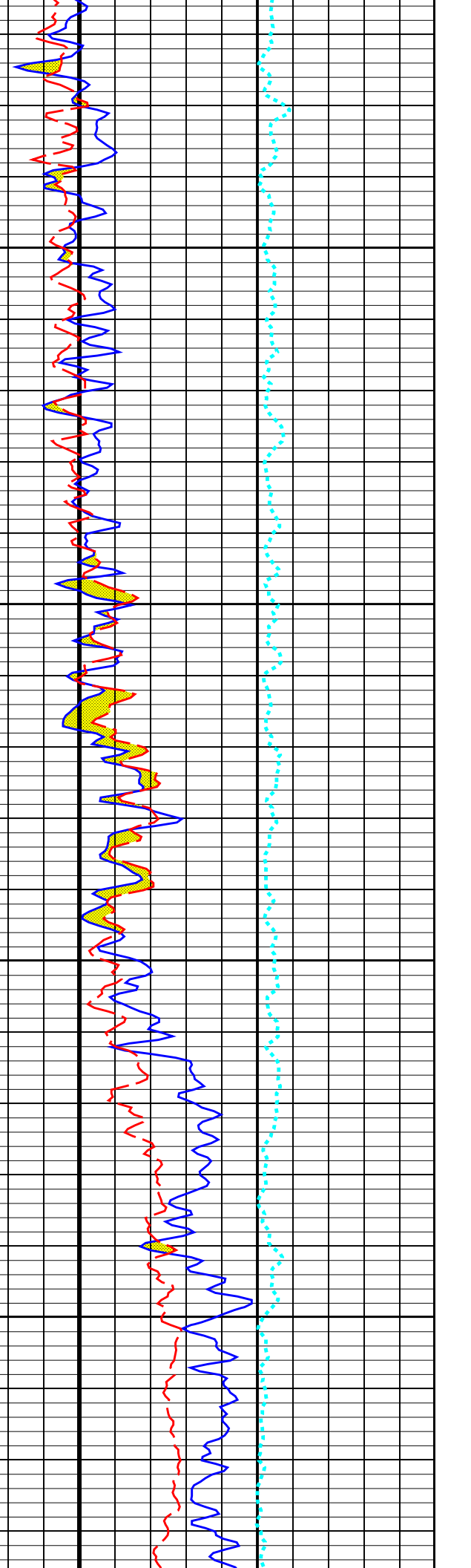
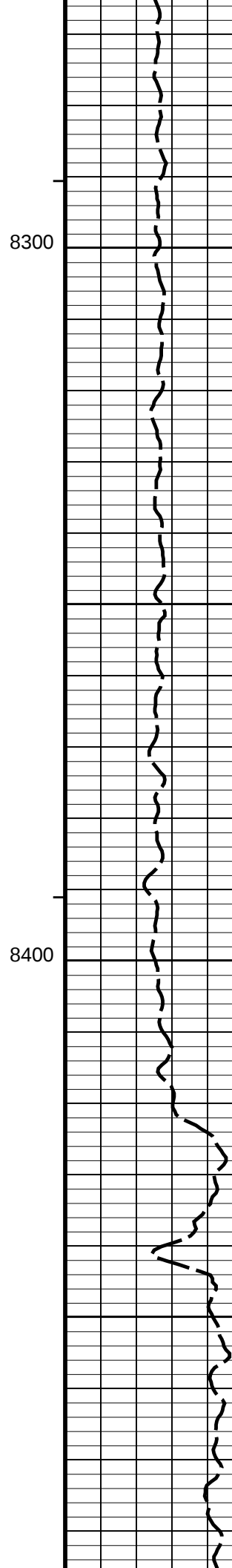
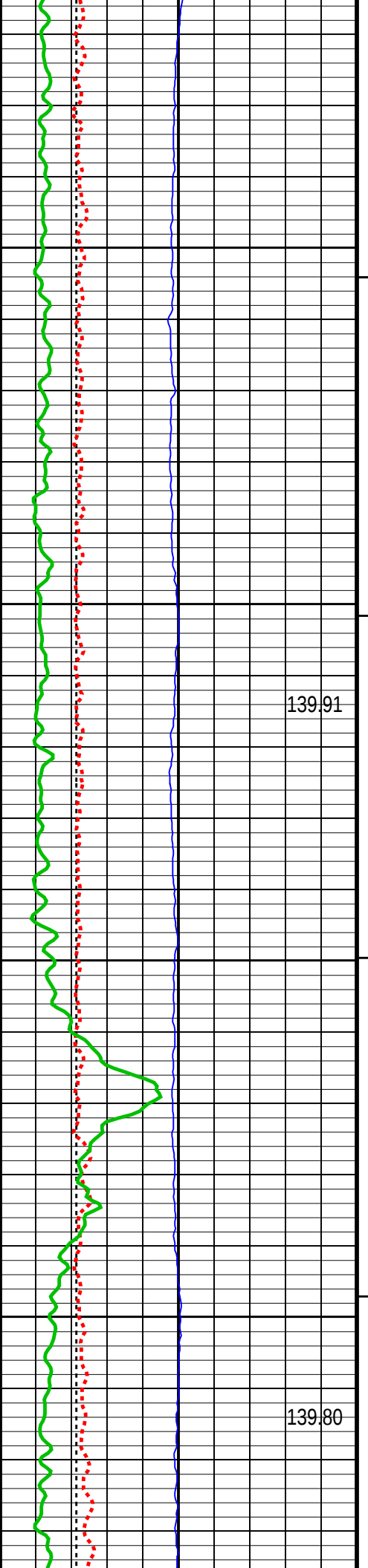


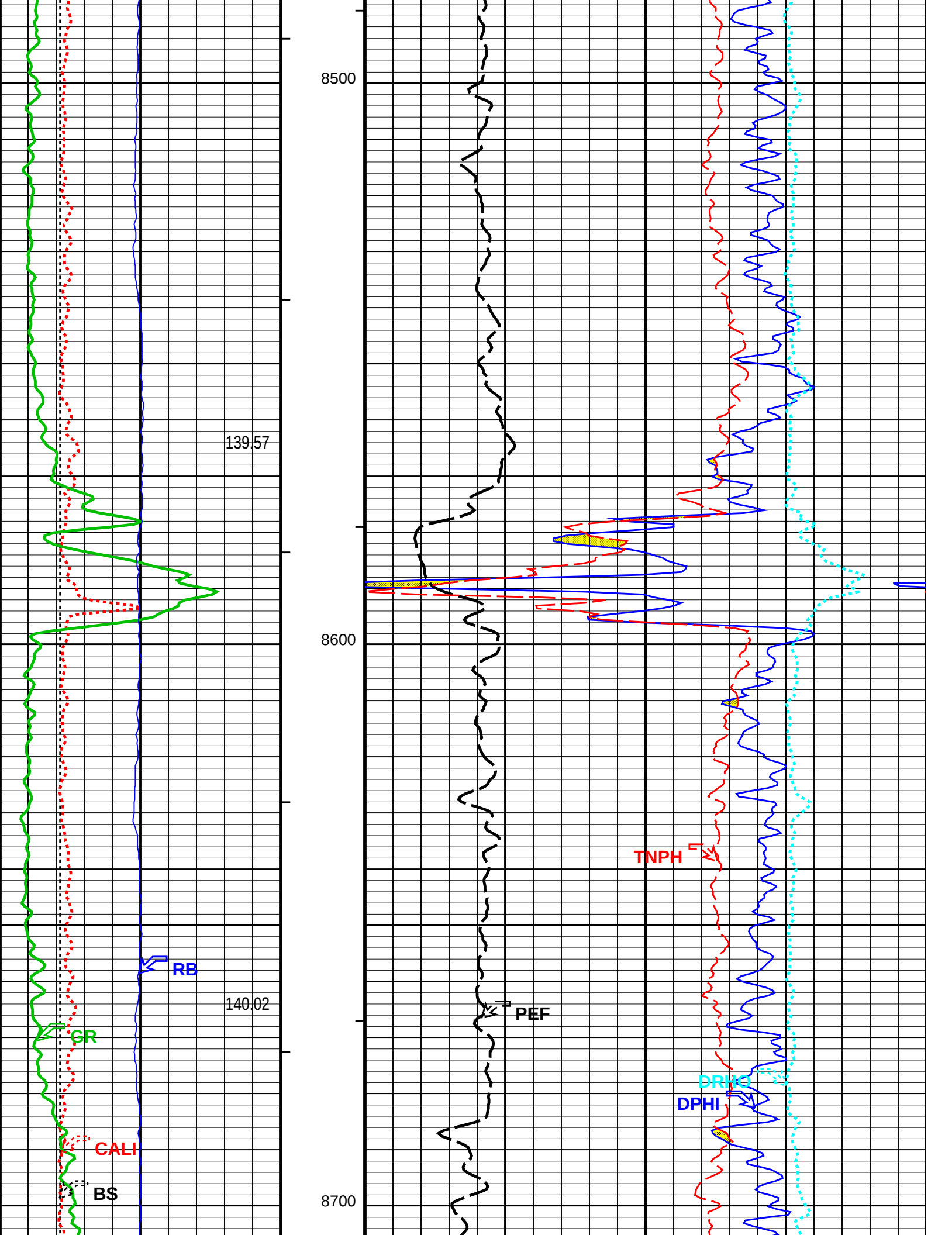


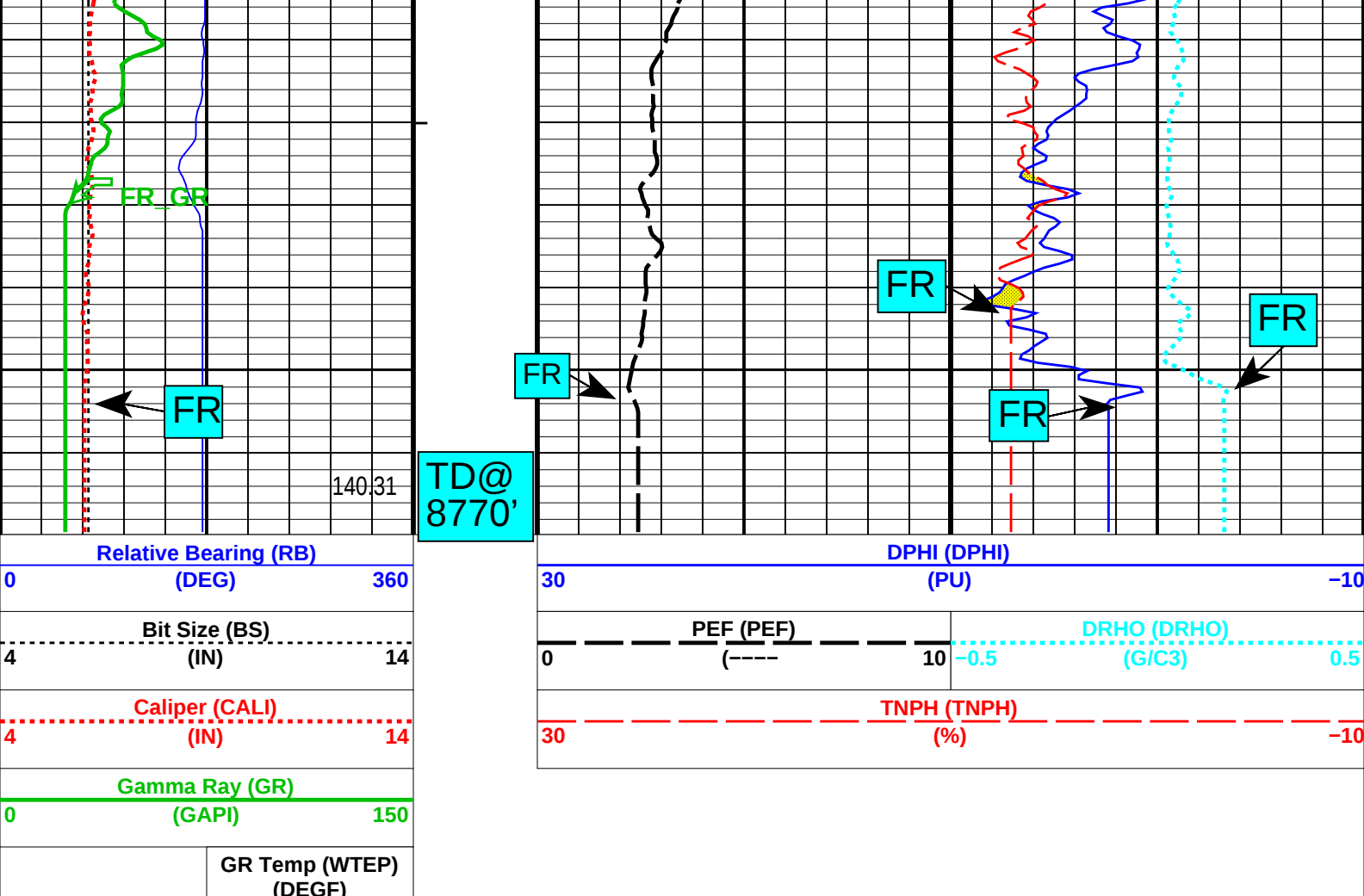












PIP SUMMARY

- └ 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		
DHC	Density Hole Correction	CALIPER
FD	Fluid Density	1.000 g/cm3
MATR	Rock Matrix for Neutron Porosity Corrections	LIME
MDEN	Matrix Density	2.710 g/cm3
RB_OFFSET	Additional RB offset (degrees)	0.000 deg
TBD_CAL_BLOCK	TBD Calibration Block Type	THRUBIT
WMUD	Mud Weight	8.600 lbm/gal
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0.000 ft
TIMD	Along-hole depth of Tie-in Point	0.000 ft
TIVD	TVD of Tie-in Point	0.000 ft
HOLEV: Integrated Hole/Cement Volume		
MATR	Rock Matrix for Neutron Porosity Corrections	LIME
System and Miscellaneous		
BS	Bit Size	6.125 in

Format: TB_5INCH_NUCLEAR Vertical Scale: 5" per 100'

Graphics File Created: 24-Feb-2014 07:19

OP System Version: 19C2-270

TBT SRPC-5287-ThruBit

Input DLIS Files

DEFAULT ThruBit_018PUP FN:17 PRODUCER 24-Feb-2014 07:04 8769.8 FT 2694.0 FT

MAXIS Field Log

Thurbit String / Equipment Identification

Primary Equipment:

Induction Resistivity

Density

Gamma-Ray Logging Source

Thermal Neutron

Neutron Logging Source

Telemetry Memory GR

Battery

Battery

TBI - A 38

TBD - A 41

GGLS - FZ

TBN - A 2

NNLS - EWA

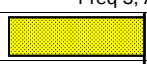
TMG - A 10

TBAT - 7

TBAT - 40

Auxiliary Equipment:

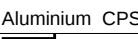
Thurbit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal
	-472.381	-457.000		86.6787	300.000
-536.000 (Minimum)	-387.000 (Maximum)		-500.000 (Minimum)	1100.00 (Maximum)	
Freq 1, A2, R	Value	Nominal	Freq 1, A2, X	Value	Nominal
	-141.780	-141.000		9.06114	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
	-29.3611	-28.0000		-136.205	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
	-16.8612	-16.0000		235.294	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
	-14.6911	-14.0000		147.106	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
	-249.241	-237.000		26.2440	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
	-90.8768	-92.0000		-24.8920	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
	-20.8931	-21.0000		-141.555	-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
	-20.0141	-20.0000		64.5928	100.000
-28.0000 (Minimum)	-10.0000 (Maximum)		-75.0000 (Minimum)	275.000 (Maximum)	
Freq 2, A5, R	Value	Nominal	Freq 2, A5, X	Value	Nominal

	-19.5184	-20.0000		-1.77771	-25.0000
-27.0000 (Minimum)	-10.0000 (Maximum)		-125.000 (Minimum)	75.0000 (Maximum)	
Freq 3, A1, R	Value	Nominal	Freq 3, A1, X	Value	Nominal
	-160.406	-149.000		-51.7879	25.0000
-193.000 (Minimum)	-108.000 (Maximum)		-375.000 (Minimum)	425.000 (Maximum)	
Freq 3, A2, R	Value	Nominal	Freq 3, A2, X	Value	Nominal
	-68.7679	-70.0000		-62.1568	70.0000
-81.0000 (Minimum)	-57.0000 (Maximum)		-125.000 (Minimum)	250.000 (Maximum)	
Freq 3, A3, R	Value	Nominal	Freq 3, A3, X	Value	Nominal
	-17.3280	-17.0000		-163.178	-90.0000
-23.0000 (Minimum)	-11.0000 (Maximum)		-300.000 (Minimum)	125.000 (Maximum)	
Freq 3, A4, R	Value	Nominal	Freq 3, A4, X	Value	Nominal
	-21.6642	-22.0000		-50.3343	-50.0000
-31.0000 (Minimum)	-11.0000 (Maximum)		-200.000 (Minimum)	100.000 (Maximum)	
Freq 3, A5, R	Value	Nominal	Freq 3, A5, X	Value	Nominal
	-22.1622	-22.0000		-110.006	-110.000
-32.0000 (Minimum)	-11.0000 (Maximum)		-250.000 (Minimum)	-25.0000 (Maximum)	
Freq 4, A1, R	Value	Nominal	Freq 4, A1, X	Value	Nominal
	-89.7509	-80.0000		-191.734	-190.000
-108.000 (Minimum)	-54.0000 (Maximum)		-450.000 (Minimum)	75.0000 (Maximum)	
Freq 4, A2, R	Value	Nominal	Freq 4, A2, X	Value	Nominal
	-49.2204	-50.0000		-129.084	-75.0000
-60.0000 (Minimum)	-41.0000 (Maximum)		-200.000 (Minimum)	50.0000 (Maximum)	
Freq 4, A3, R	Value	Nominal	Freq 4, A3, X	Value	Nominal
	-14.0715	-14.0000		-216.603	-190.000
-19.0000 (Minimum)	-8.00000 (Maximum)		-350.000 (Minimum)	-25.0000 (Maximum)	
Freq 4, A4, R	Value	Nominal	Freq 4, A4, X	Value	Nominal
	-24.7461	-25.0000		-223.084	-235.000
-37.0000 (Minimum)	-11.0000 (Maximum)		-400.000 (Minimum)	-75.0000 (Maximum)	
Freq 4, A5, R	Value	Nominal	Freq 4, A5, X	Value	Nominal
	-27.8306	-28.0000		-290.763	-300.000
-43.0000 (Minimum)	-12.0000 (Maximum)		-475.000 (Minimum)	-125.000 (Maximum)	
Master: 20-Nov-2013 15:41					

ThruBit String Master Calibration					
TBI Master Calibration COMPLEX GAINS					
Freq 1, R	Value	Nominal	Freq 1, X	Value	Nominal
	0.9980	1.000		-0.005839	0
	0.9916	1.000		-0.0006007	0
	1.000	1.000		-0.006207	0
	0.9883	1.000		0.003615	0
	0.9928	1.000		0.0008917	0
0.9500 (Minimum)	1.050 (Maximum)		-0.05000 (Minimum)	0.05000 (Maximum)	
Freq 2, R	Value	Nominal	Freq 2, X	Value	Nominal
	0.9917	1.000		-0.01175	0
	0.9852	1.000		-0.006902	0
	0.9882	1.000		-0.005732	0
	0.9828	1.000		-0.003496	0

0.9500 (Minimum)		1.050 (Maximum)	1.000	-0.05000 (Minimum)		-0.006957	0
	(Nominal)				(Nominal)		
Freq 3, R		Value	Nominal	Freq 3, X		Value	Nominal
		1.001	1.000			-0.01245	0
		0.9945	1.000			-0.008222	0
		0.9970	1.000			-0.007458	0
		0.9904	1.000			-0.005116	0
		0.9984	1.000			-0.008601	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
		0.9961	1.000			-0.007787	0
		0.9889	1.000			-0.005263	0
		0.9933	1.000			-0.006679	0
		0.9845	1.000			-0.002521	0
		0.9993	1.000			-0.009006	0
0.9300 (Minimum)	(Nominal)	1.070 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Master: 20-Nov-2013 15:41							

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
	1853.8	1949.8		2024.8	2096.7		2189.3	2285.7
1799.8 (Minimum)	2099.8 (Maximum)		1946.7 (Minimum)	2246.7 (Maximum)		2135.7 (Minimum)	2435.7 (Maximum)	
Master: 28-Jan-2014 13:30								

Thrubit String Master Calibration						
TBD Density Master Calibration. Ti Window, Thrubit blocks						
LS1 Background CPS	Value	Nominal	SS1 Background CPS	Value	Nominal	
	159.12	143.00		146.99	143.00	
100.00 (Minimum)	186.00 (Maximum)		100.00 (Minimum)	186.00 (Maximum)		
LS2 Background CPS	Value	Nominal	SS2 Background CPS	Value	Nominal	
	41.8787	37.0000		39.1258	38.0000	
26.0000 (Minimum)	48.0000 (Maximum)		27.0000 (Minimum)	50.0000 (Maximum)		
LS3 Background CPS	Value	Nominal	SS3 Background CPS	Value	Nominal	
	24.6364	22.0000		23.3309	23.0000	
15.0000 (Minimum)	29.0000 (Maximum)		16.0000 (Minimum)	30.0000 (Maximum)		
LS4 Background CPS	Value	Nominal	SS4 Background CPS	Value	Nominal	
	32.07	30.00		32.2079	31.0000	
20.00 (Minimum)	40.00 (Maximum)		22.0000 (Minimum)	40.0000 (Maximum)		
LS1 Aluminium CPS	Value	Nominal	SS1 Aluminium CPS	Value	Nominal	
	1264.3	1210.0		7364.46	7850.00	
850.00 (Minimum)	1570.0 (Maximum)		5500.00 (Minimum)	10200.0 (Maximum)		
LS2 Aluminium CPS	Value	Nominal	SS2 Aluminium CPS	Value	Nominal	
	1137.76	1110.00		3812.17	4000.00	
780.000 (Minimum)	1440.00 (Maximum)		2800.00 (Minimum)	5200.00 (Maximum)		
LS3 Aluminium CPS	Value	Nominal	SS3 Aluminium CPS	Value	Nominal	
	1006.30	1010.00		3224.09	3350.00	
710.000 (Minimum)	1300.00 (Maximum)		2350.00 (Minimum)	4360.00 (Maximum)		
LS4 Aluminium CPS	Value	Nominal	SS4 Aluminium CPS	Value	Nominal	
	699.86	760.00		3093.2637	3230.0000	

530.00 (Minimum)	(Nominal)	990.00 (Maximum)		2260.0000 (Minimum)	(Nominal)	4200.0000 (Maximum)	
LS1 Al + Sleeve CPS		Value	Nominal	SS1 Al + Sleeve CPS		Value	Nominal
		1112.6	970.00			6348.65	6160.00
680.00 (Minimum)	(Nominal)	1260.0 (Maximum)		4300.00 (Minimum)	(Nominal)	8000.00 (Maximum)	
LS2 Al + Sleeve CPS		Value	Nominal	SS2 Al + Sleeve CPS		Value	Nominal
		930.749	830.000			3124.05	3050.00
580.000 (Minimum)	(Nominal)	1080.00 (Maximum)		2130.00 (Minimum)	(Nominal)	4000.00 (Maximum)	
LS3 Al + Sleeve CPS		Value	Nominal	SS3 Al + Sleeve CPS		Value	Nominal
		695.580	650.000			2265.45	2190.00
460.000 (Minimum)	(Nominal)	850.000 (Maximum)		1533.00 (Minimum)	(Nominal)	2850.00 (Maximum)	
LS4 Al + Sleeve CPS		Value	Nominal	SS4 Al + Sleeve CPS		Value	Nominal
		416.77	420.00			1770.75	1700.00
300.00 (Minimum)	(Nominal)	550.00 (Maximum)		1190.00 (Minimum)	(Nominal)	2200.00 (Maximum)	
LS1 Magnesium CPS		Value	Nominal	SS1 Magnesium CPS		Value	Nominal
		8312.96	8100.00			11927.0	12740.0
5670.00 (Minimum)	(Nominal)	10530.0 (Maximum)		8920.00 (Minimum)	(Nominal)	16560.0 (Maximum)	
LS2 Magnesium CPS		Value	Nominal	SS2 Magnesium CPS		Value	Nominal
		7736.19	7650.00			6315.20	6670.00
5360.00 (Minimum)	(Nominal)	9950.00 (Maximum)		4670.00 (Minimum)	(Nominal)	8670.00 (Maximum)	
LS3 Magnesium CPS		Value	Nominal	SS3 Magnesium CPS		Value	Nominal
		6704.84	6800.00			5203.64	5400.00
4760.00 (Minimum)	(Nominal)	8840.00 (Maximum)		3780.00 (Minimum)	(Nominal)	7020.00 (Maximum)	
LS4 Magnesium CPS		Value	Nominal	SS4 Magnesium CPS		Value	Nominal
		4446.85	4850.00			5017.52	5240.00
3400.00 (Minimum)	(Nominal)	6300.00 (Maximum)		3670.00 (Minimum)	(Nominal)	6810.00 (Maximum)	
Master: 28-Jan-2014 13:19							

Therbit String Master Calibration							
Thermal Neutron Master Calibration							
TNF, Background CPS		Value	Nominal	TNN, Background CPS		Value	Nominal
		0.11	1.0			0.067	1.0
0 (Minimum)		2.0 (Maximum)		0 (Minimum)		2.0 (Maximum)	
TNF, Tank CPS		Value	Nominal	TNN, Tank CPS		Value	Nominal
		74.85	96.00			2274.3	2860.0
25.00 (Minimum)		200.0 (Maximum)		750.00 (Minimum)		5700.0 (Maximum)	
TNF, Tank + Al Sleeve CPS		Value	Nominal	TNN, Tank + Al Sleeve CPS		Value	Nominal
		2358.5	3040.0			25541.7	32350.0
727.00 (Minimum)		6080.0 (Maximum)		8000.00 (Minimum)		64700.0 (Maximum)	
Tank + Al Sleeve Ratio		Value	Nominal	Tank + Al Sleeve Porosity PU		Value	Nominal
		11.034	10.797			14.46	14.40
10.300 (Minimum)		11.300 (Maximum)		13.40 (Minimum)		15.40 (Maximum)	
Tank, Ratio		Value	Nominal	Tank, Temperature DEGF		Value	Nominal
		30.383	30.958			57.4	70.0
28.000 (Minimum)		34.000 (Maximum)		20.0 (Minimum)		120 (Maximum)	
Master: 28-Jan-2014 14:35							

Thrubit String Master Calibration					
TMG Accelerometer Calibration					
Minimum Ax, m/s2	Value	Nominal	Maximum Ax, m/s2	Value	Nominal
NOT DONE	N/A	-9.810	NOT DONE	N/A	9.810

-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
Minimum Ay, m/s2		Value	Nominal	Maximum Ay, m/s2		Value	Nominal
NOT DONE		N/A	-9.810	NOT DONE		N/A	9.810
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
Minimum Az, m/s2		Value	Nominal	Maximum Az, m/s2		Value	Nominal
NOT DONE		N/A	0	NOT DONE		N/A	9.810
-1.000 (Minimum)	(Nominal)	1.000 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
RB Offset, degrees		Value	Nominal				
		-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	
[Yellow Box]			25.32	30.00	[Yellow Box]	
0 (Minimum)	(Nominal)	120.0 (Maximum)		136.5 (Minimum)	(Nominal)	204.7 (Maximum)
Master: 28-Jan-2014 14:51						

Company: **SANDRIDGE ENERGY, INC.**

Well: **CHARLES 3306 1-33H**

Field: **STOHRVILLE**

County: **HARPER**

State: **KANSAS**



SPECTRAL DENSITY / DUAL SPACED NEUTRON
GAMMA RAY
MEMORY LOG