



Company: SANDRIDGE ENERGY INC

Well: MYRA 3406 4-8H

Field: EASTHAM

County: HARPER

State: KANSAS

**SPECTRAL DENSITY / DUAL SPACED NEUTRON  
GAMMA RAY  
MEMORY LOG**

County: HARPER  
Field: EASTHAM  
Location: 290' FSL & 400' FEL  
Well: MYRA 3406 4-8H  
Company: SANDRIDGE ENERGY INC

LOCATION		290' FSL & 400' FEL	Elev.: K.B. 1347.00 ft
Permanent Datum:	GROUND LEVEL		G.L. 1328.00 ft
Log Measured From:	DRILLING FLOOR		D.F. 1347.00 ft
Drilling Measured From:	DRILLING FLOOR		
API Serial No.	Section	Township	Range
15077220300100	8	34S	6W

Logging Date	Run 1	Run 2	Run
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			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RWF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

Logging Date	06 APRIL 2014
Run Number	1
Depth Driller	9140 ft
Schlumberger Depth	9117 ft
Bottom Log Interval	9098 ft
Top Log Interval	2800 ft
Casing Driller Size @ Depth	7.000 in @ 5296 ft
Casing Schlumberger	5294 ft
Bit Size	6.125 in
Type Fluid In Hole	WBM
Density	8.6 lbm/gal
Fluid Loss	50 cm3
Source Of Sample	SUCTION PIT
RM @ Measured Temperature	4.100 ohm.m @ 58 degF
RMF @ Measured Temperature	3.100 ohm.m @ 58 degF
RMC @ Measured Temperature	5.100 ohm.m @ 58 degF
Source RWF	CALCULATED
RM @ MRT	1.822 @ 139
Maximum Recorded Temperatures	139 degF
Circulation Stopped	06APRIL2014
Logger On Bottom	06APRIL2014
Unit Number	4
Recorded By	D. THOMAS
Witnessed By	JAMES FRIZZELL

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	
Fluid Loss	
Source Of Sample	
RM @ Measured Temperature	
RMF @ Measured Temperature	
RMC @ Measured Temperature	
Source RWF	
RM @ MRT	
Maximum Recorded Temperatures	
Circulation Stopped	
Logger On Bottom	
Unit Number	
Recorded By	
Witnessed By	

**DISCLAIMER**

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**OTHER SERVICES1**  
 OS1: THRU BIT  
 OS2: PORTAL  
 OS3: BIT  
 OS4:  
 OS5:

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

**REMARKS: RUN NUMBER 1**  
 SERVICE: LEVEL 4 - HORIZ MEMORY PUMP-DOWN - BIT DEPTH: 9059' LOG TO: 280C  
 ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST  
 LIMESTONE MATRIX, 2.71 G/CC, USED TO CALCULATE POROSITIES  
 TOOL STRING RAN WITH SWIVEL, SMALL DECENTRALIZER, NO STANDOFFS  
 CEMENT VOLUME CALCULATIONS BASED ON 4.50" FUTURE CASING  
 HSPM AND MDTOTCO USED TO CREATE LOG DEPTH  
 LOG DEPTH CORRELATED TO MWD GAMMA RAY AT CUSTOMERS REQUEST

**REMARKS: RUN NUMBER 2**

RIG: LARIAT #20  
 CREW: D. THOMAS, K. REED, J. DOTY

RUN 1		
SERVICE ORDER #:	2732	
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

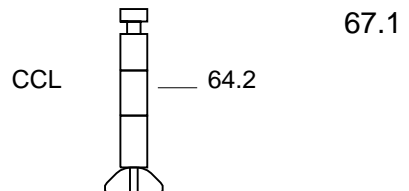
**SURFACE EQUIPMENT**

WITM (ThruBit)

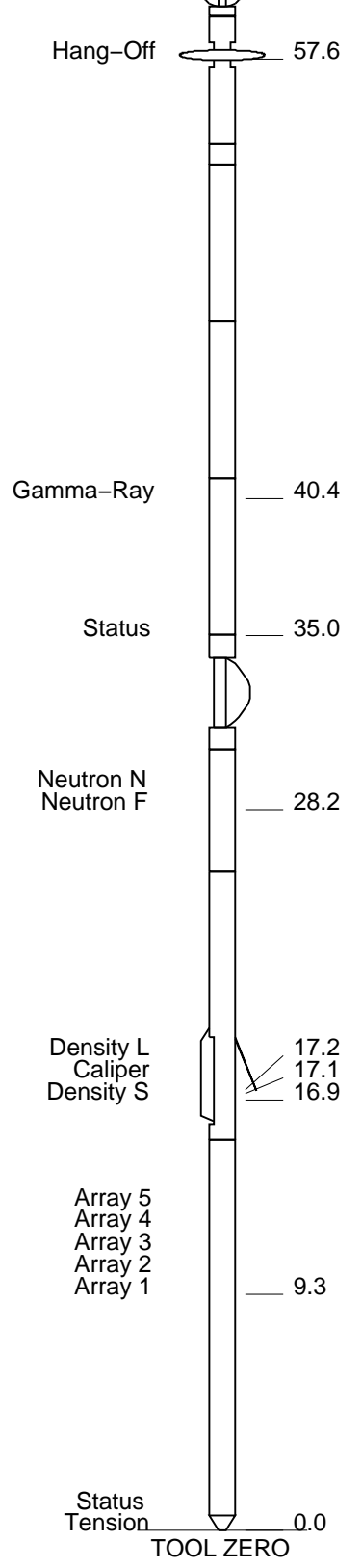
RUN 2

**DOWNHOLE EQUIPMENT**

TBT-A  
 THEAD  
 CCL  
 BDOT-B  
 THOT  
 T10\_1  
 TBAT1 7  
 TBAT2 40



TMG-A 49  
TBEX-A  
TBN-A 25  
NNLS-EWA  
TBD-A 46  
GGLS-FZ  
TBI-A 24



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

Schlumberger

MAIN PASS (2"/100' SCALE)

MAXIS Field Log

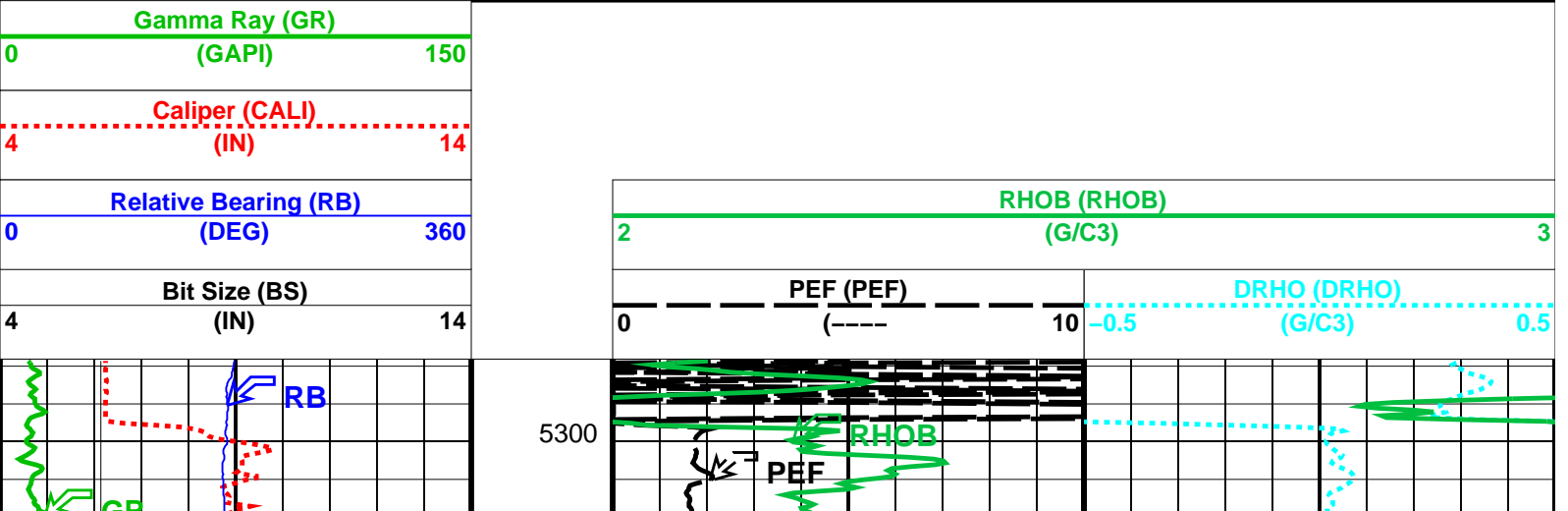
Company: SANDRIDGE ENERGY INC Well: MYRA 3406 4-8H

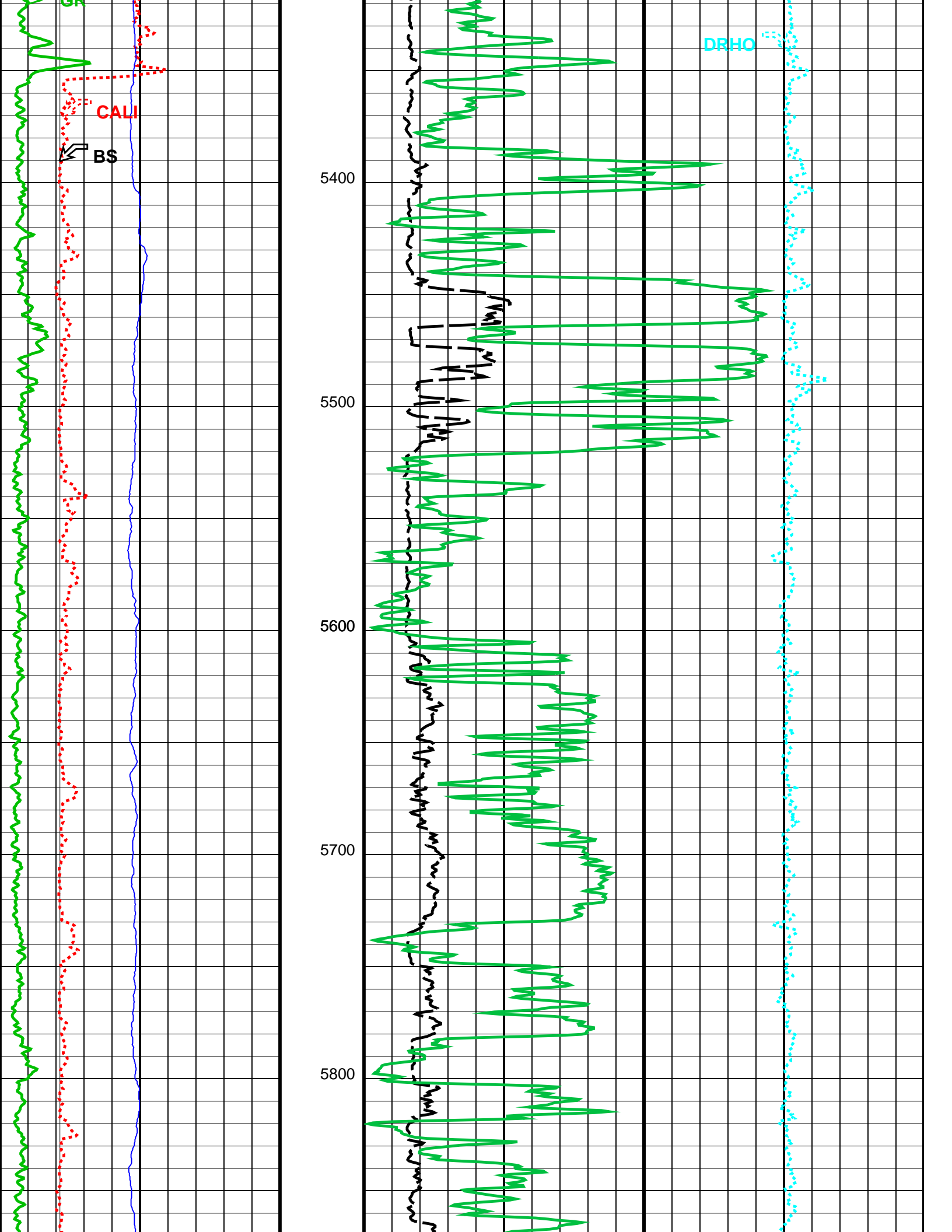
Input DLIS Files

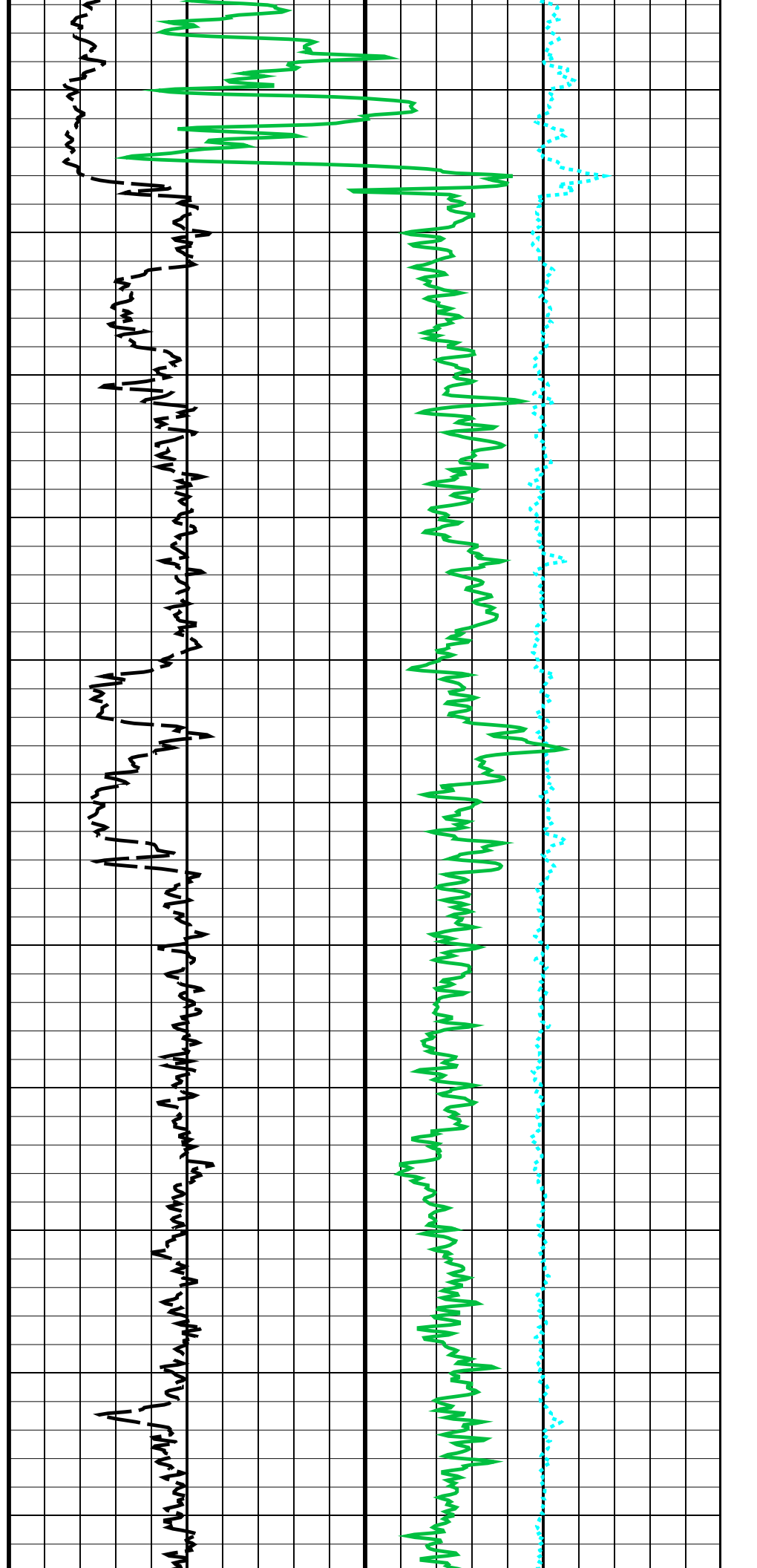
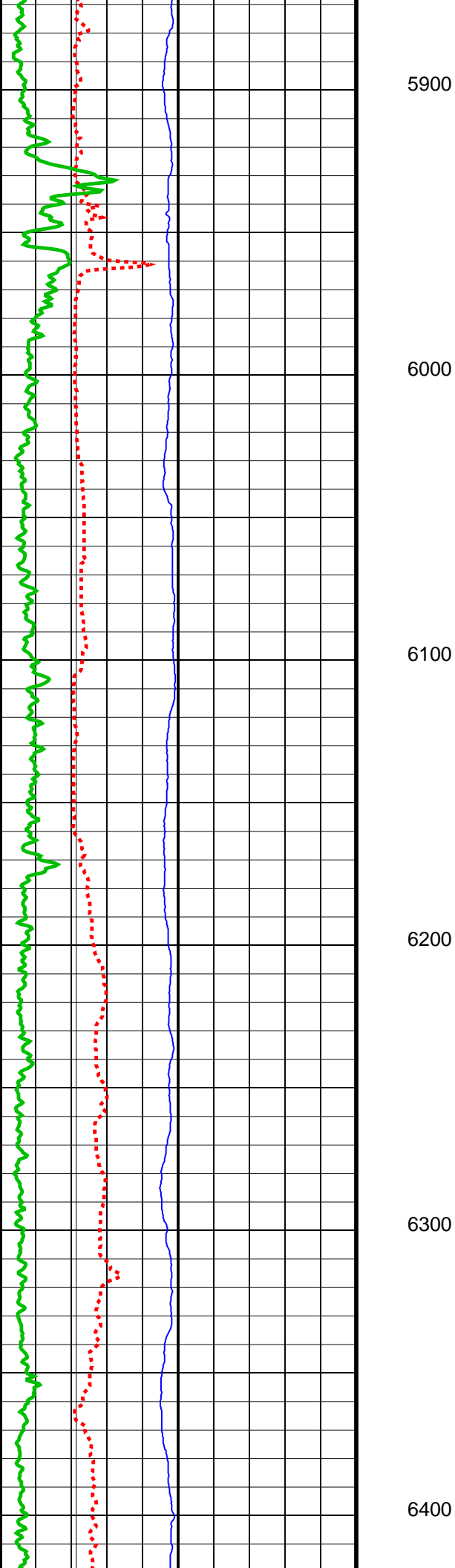
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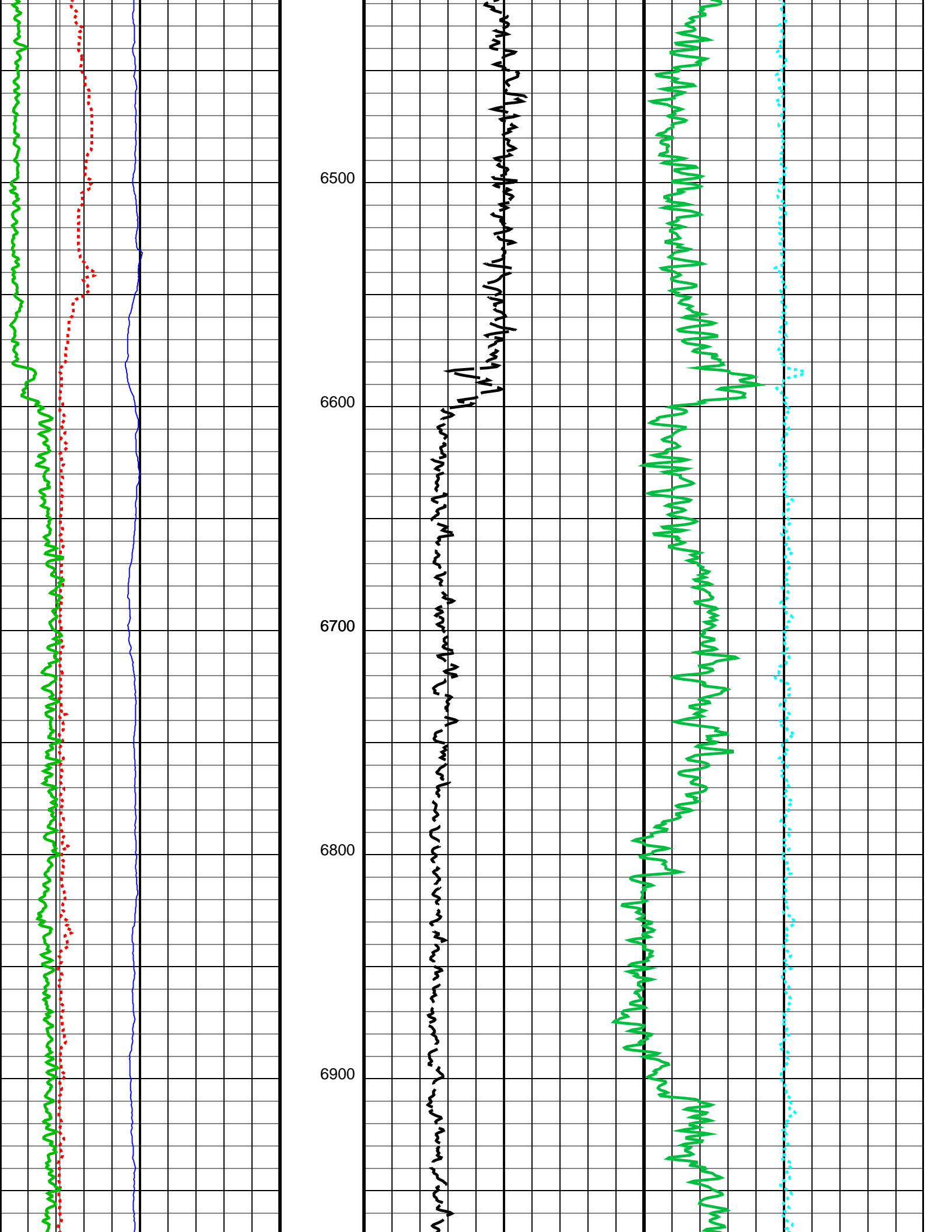
OP System Version: 19C2-270

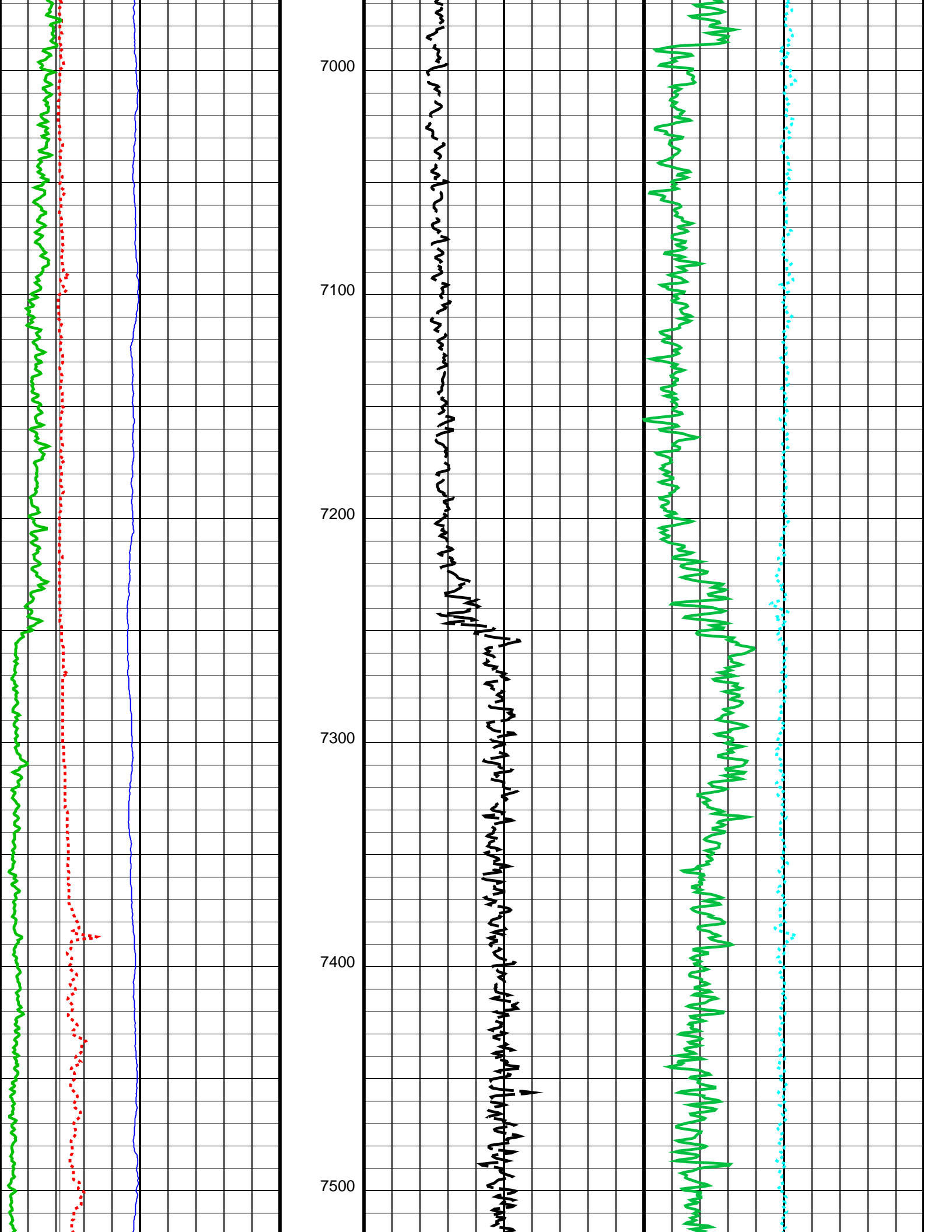
TBT SRPC-5292-ThruBit\_RevA



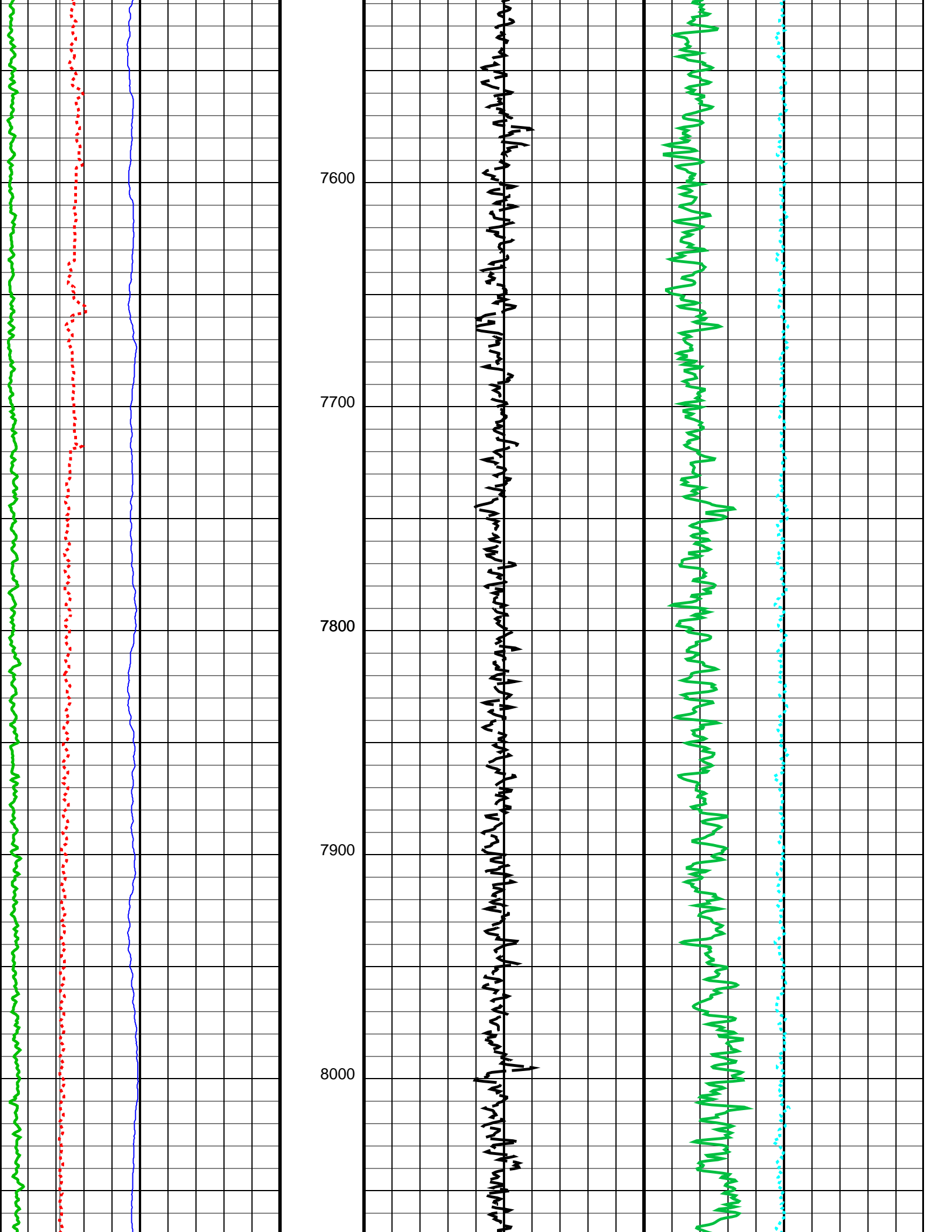


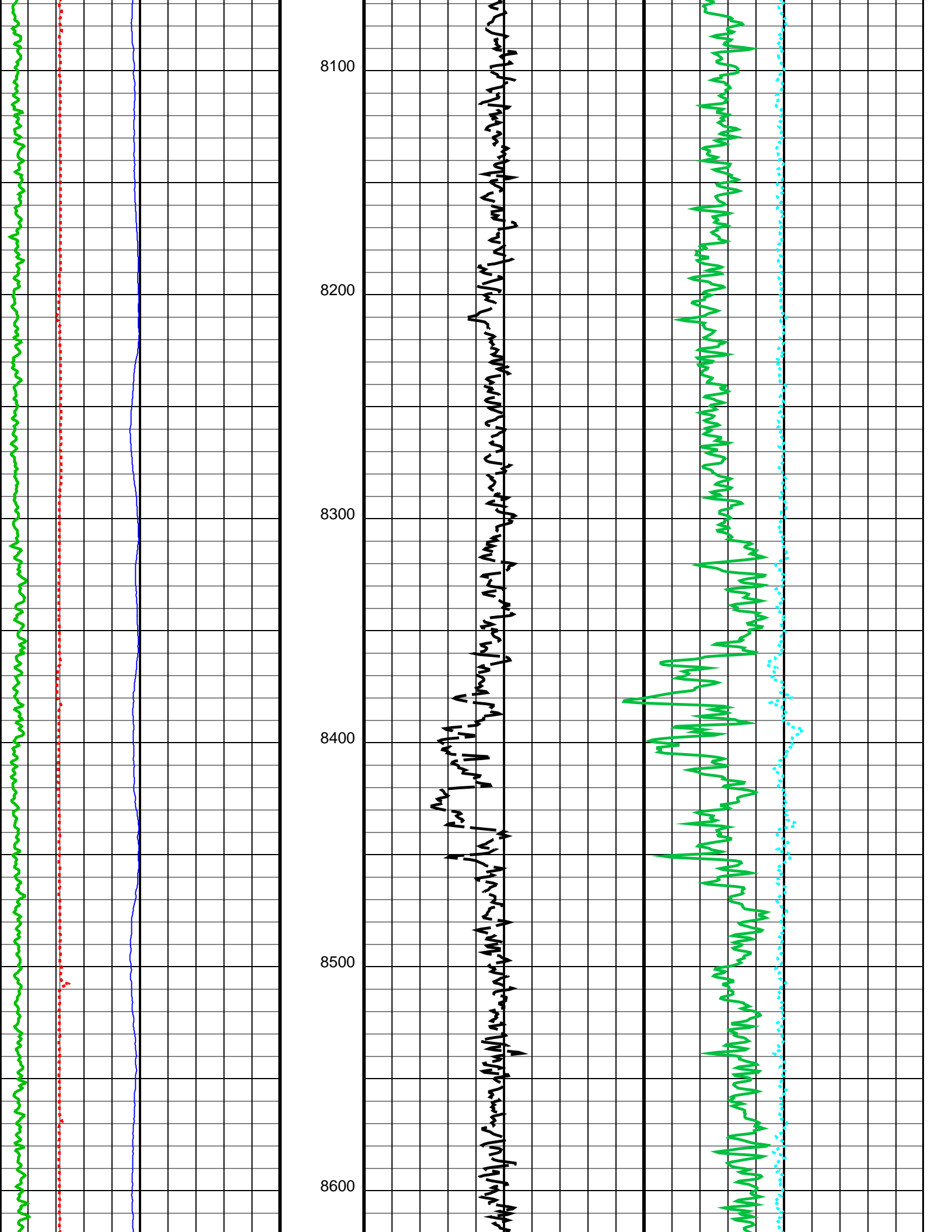


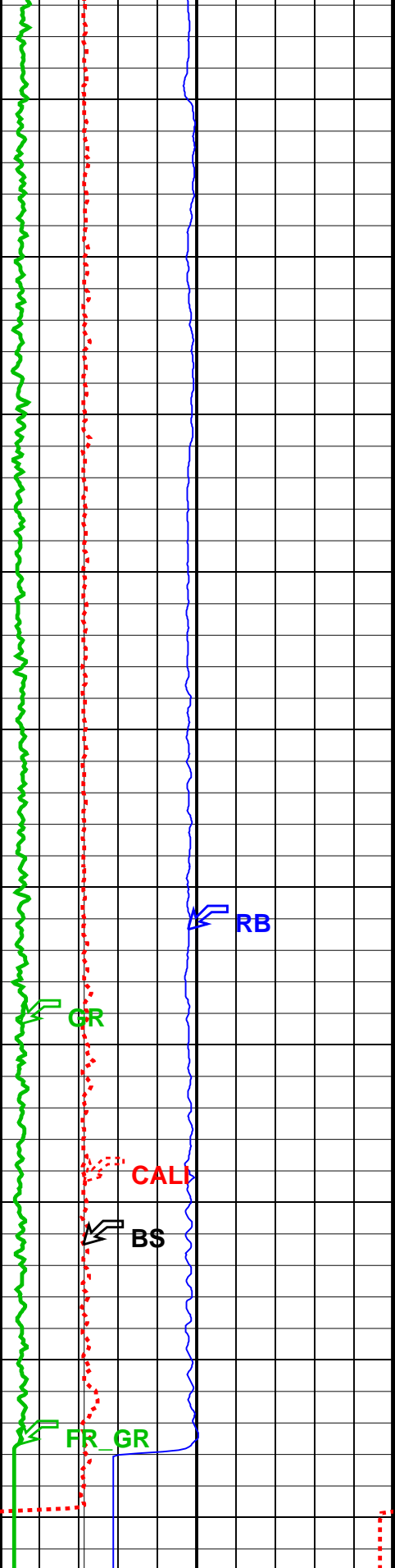




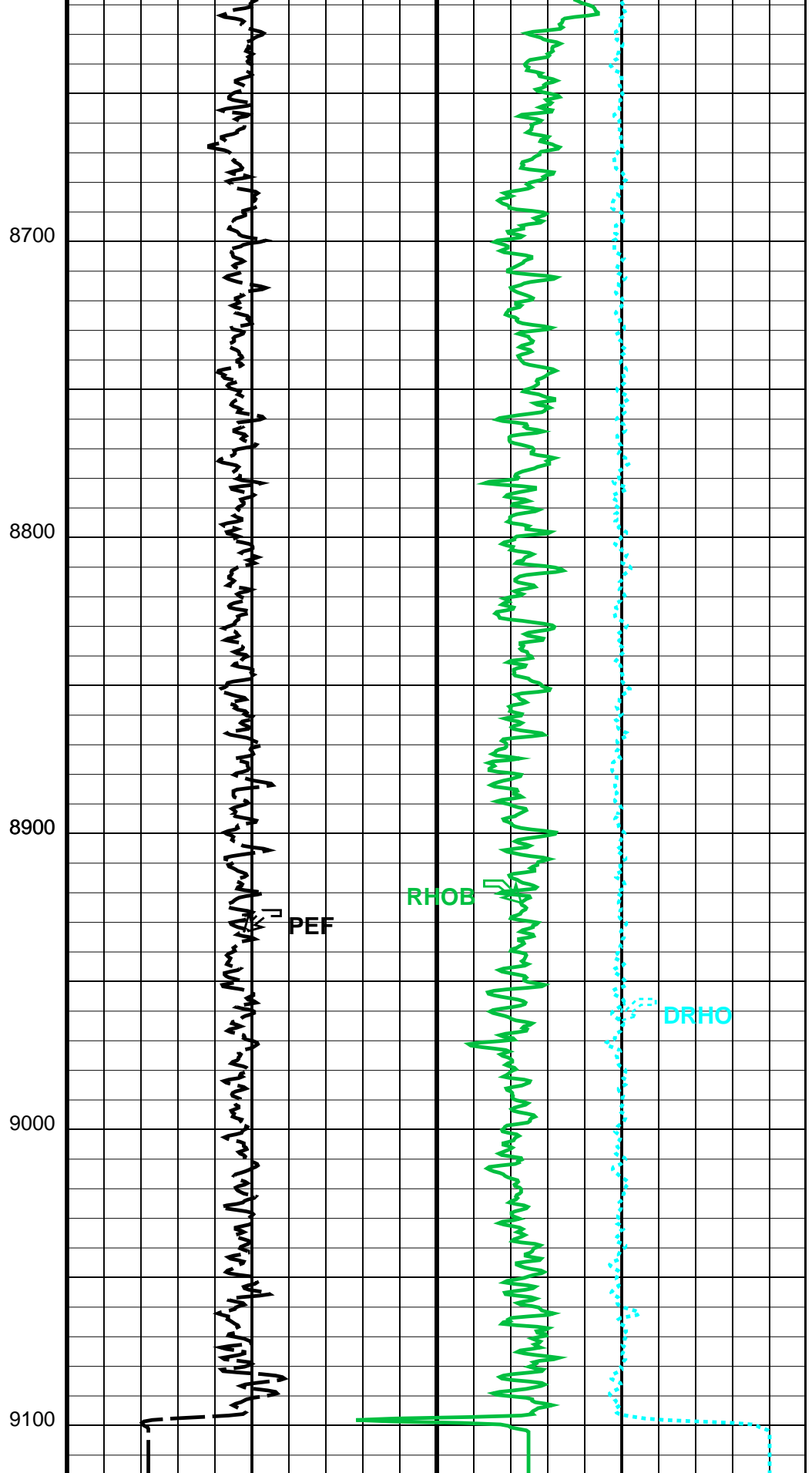








Bit Size (BS)	(IN)	4	14
Relative Bearing (RB)	(DEG)	0	360
Caliper (CALI)			



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

4	Caliper (CALI) (IN)	14
0	Gamma Ray (GR) (GAPI)	150

### 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
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
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: 06-Apr-2014 13:20

### OP System Version: 19C2-270

TBT                      SRPC-5292-ThruBit\_RevA

### Input DLIS Files

DEFAULT              ThruBit\_016PUP                      FN:15    PRODUCER    06-Apr-2014 13:12    9117.0 FT              2744.5 FT



**MAIN PASS (5"/100' SCALE)**

MAXIS Field Log

Company: SANDRIDGE ENERGY INC                      Well: MYRA 3406 4-8H

### Input DLIS Files

DEFAULT              ThruBit\_016PUP                      FN:15    PRODUCER    06-Apr-2014 13:12    9117.0 FT              2744.5 FT

### Integrated Hole/Cement Volume Summary

Hole Volume = 838.56 ft3  
 Cement Volume = 416.39 ft3 (assuming 4.50 in casing O.D.)  
 Computed from 9116.0 ft to 5294.0 ft

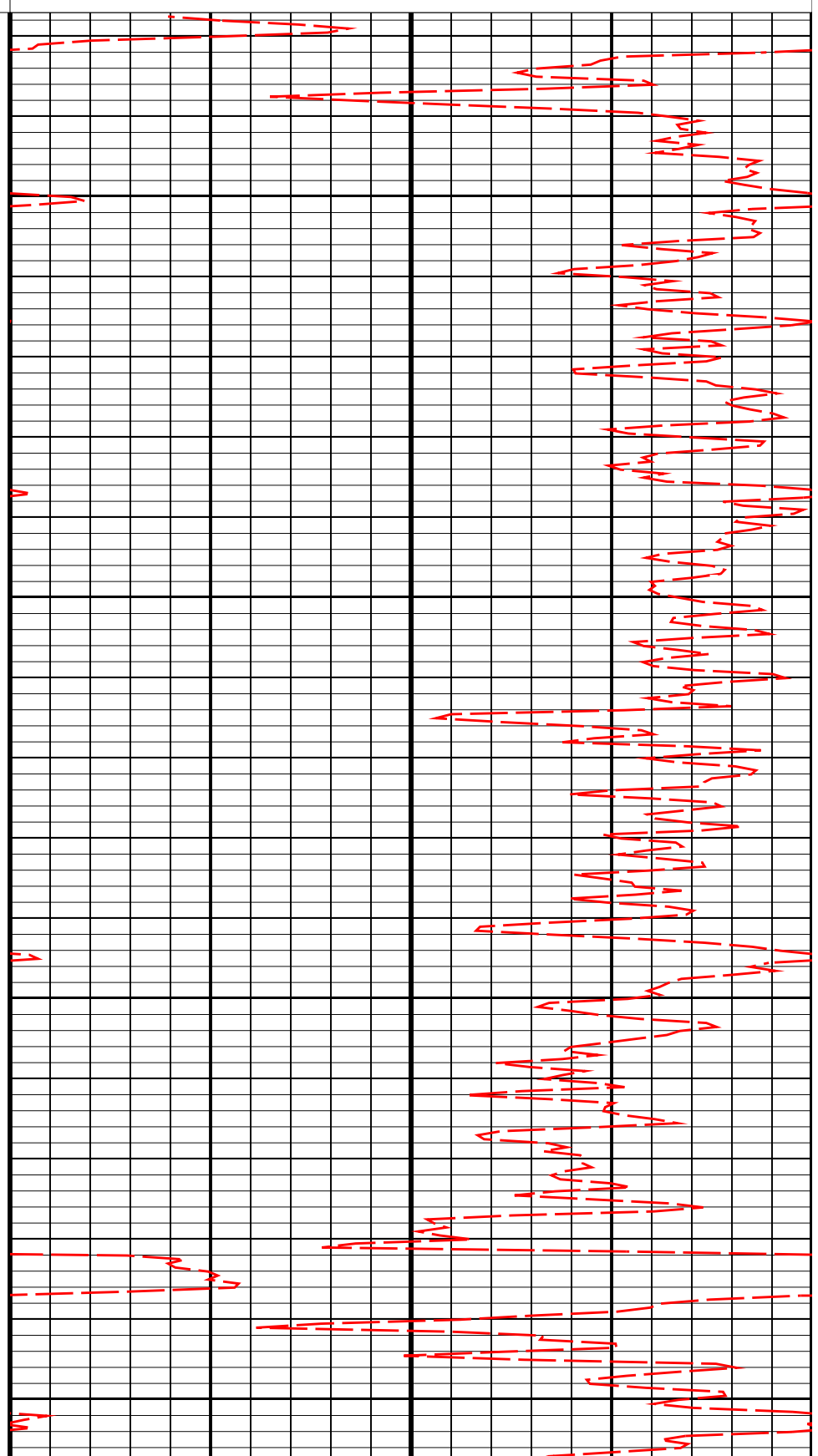
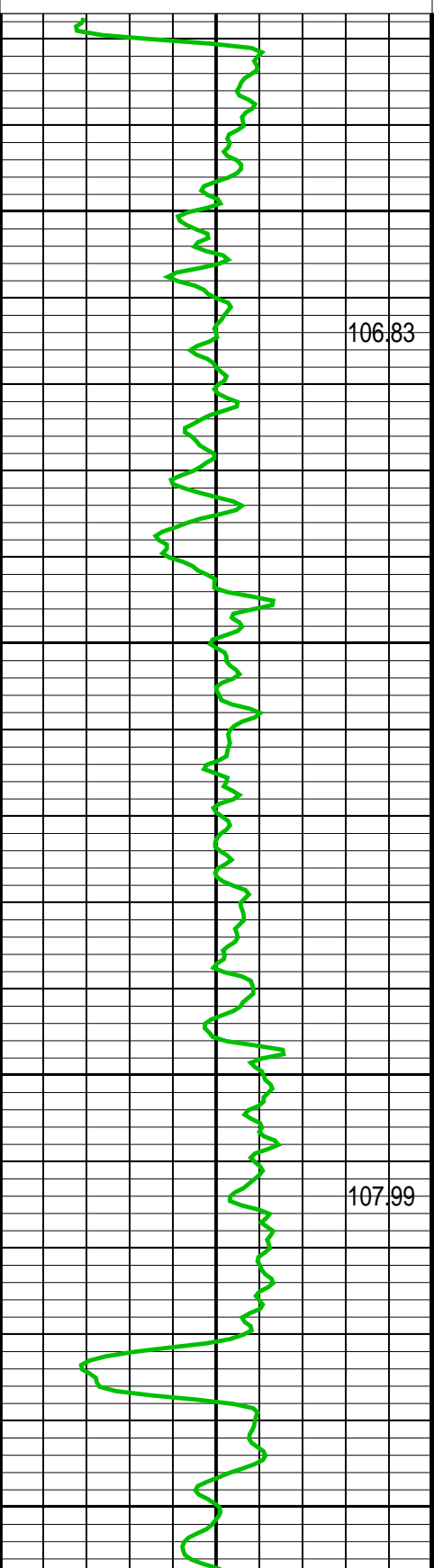
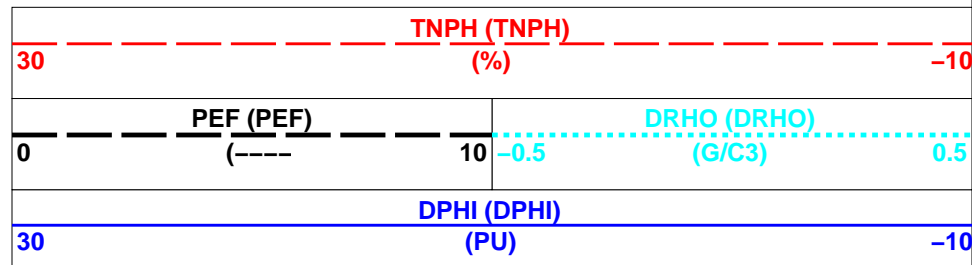
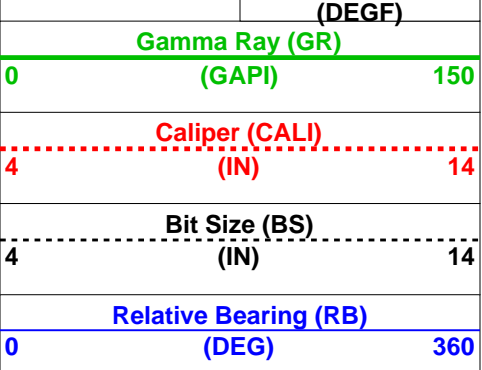
### OP System Version: 19C2-270

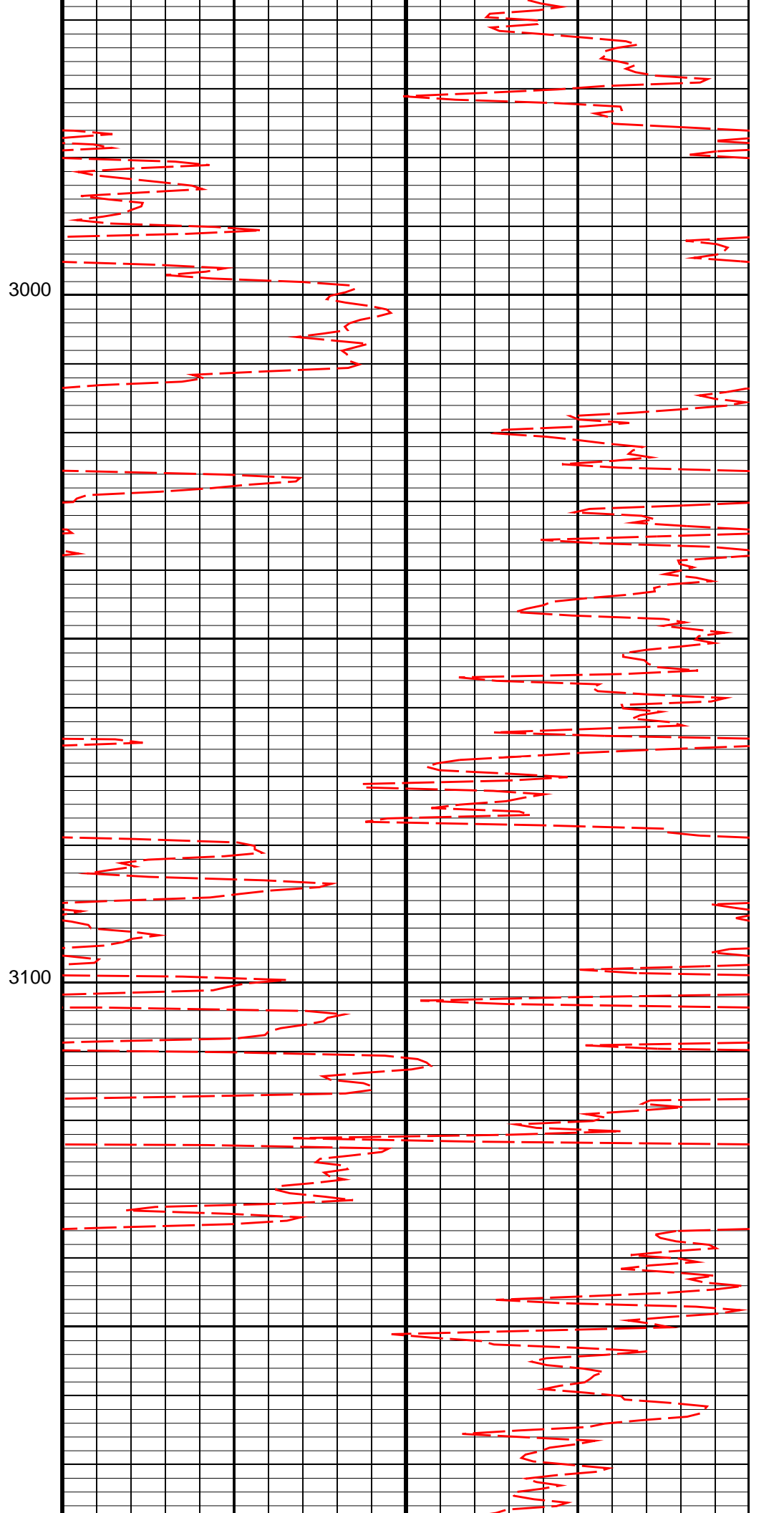
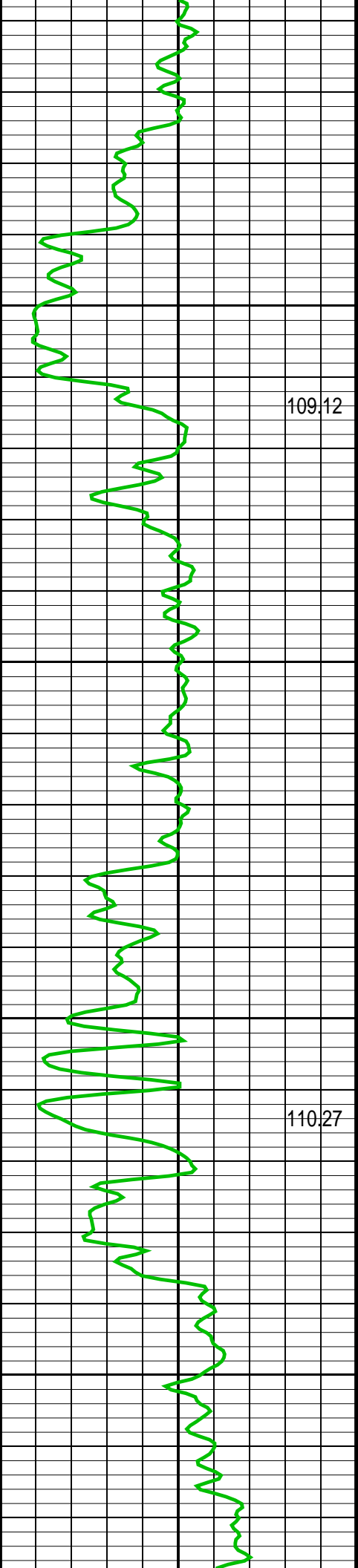
TBT                      SRPC-5292-ThruBit\_RevA

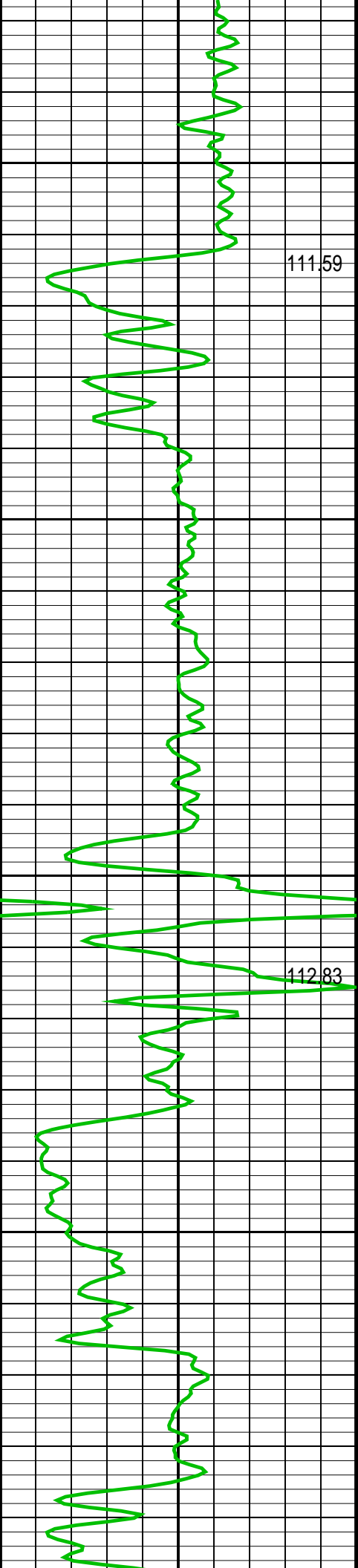
### PIP SUMMARY

- ┆ 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)





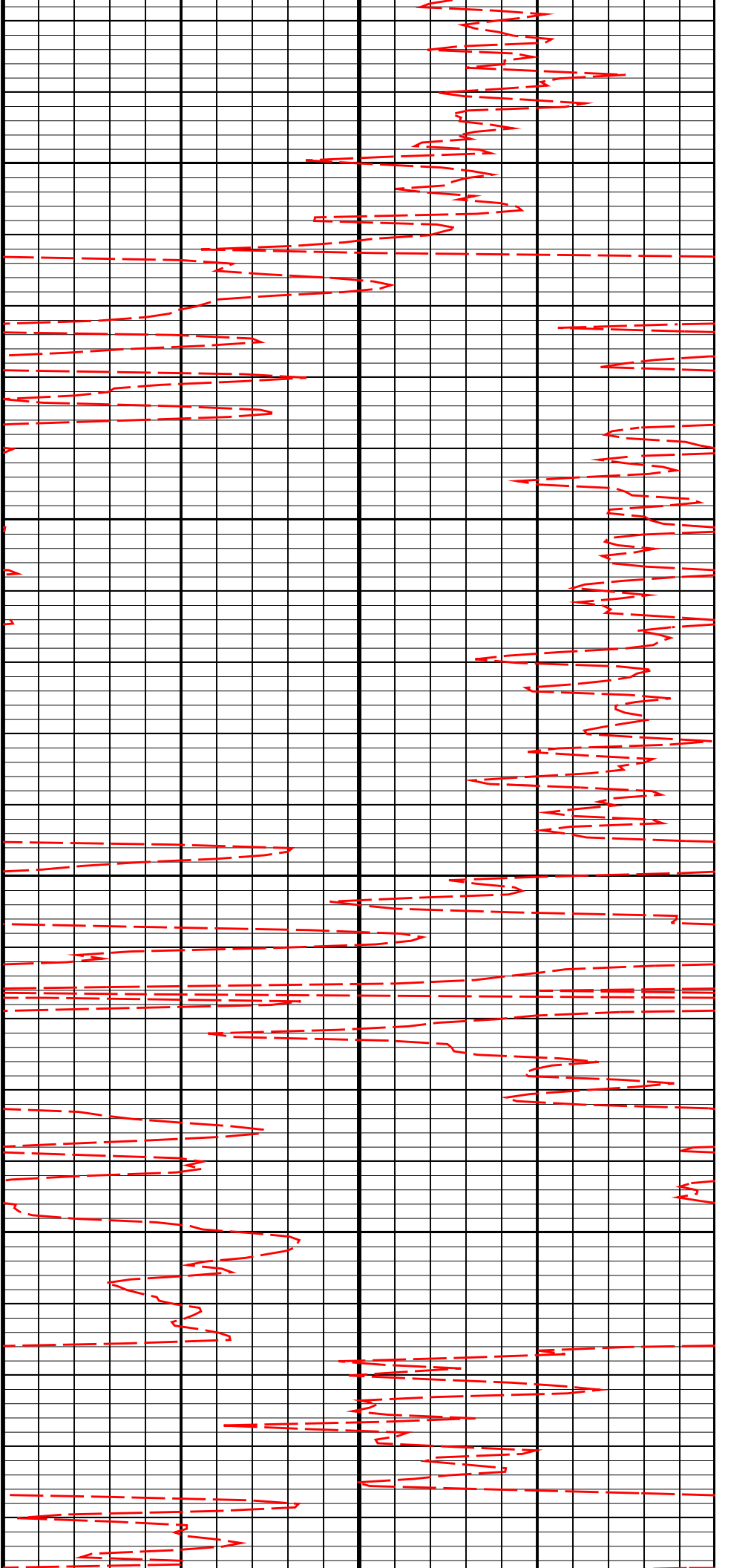


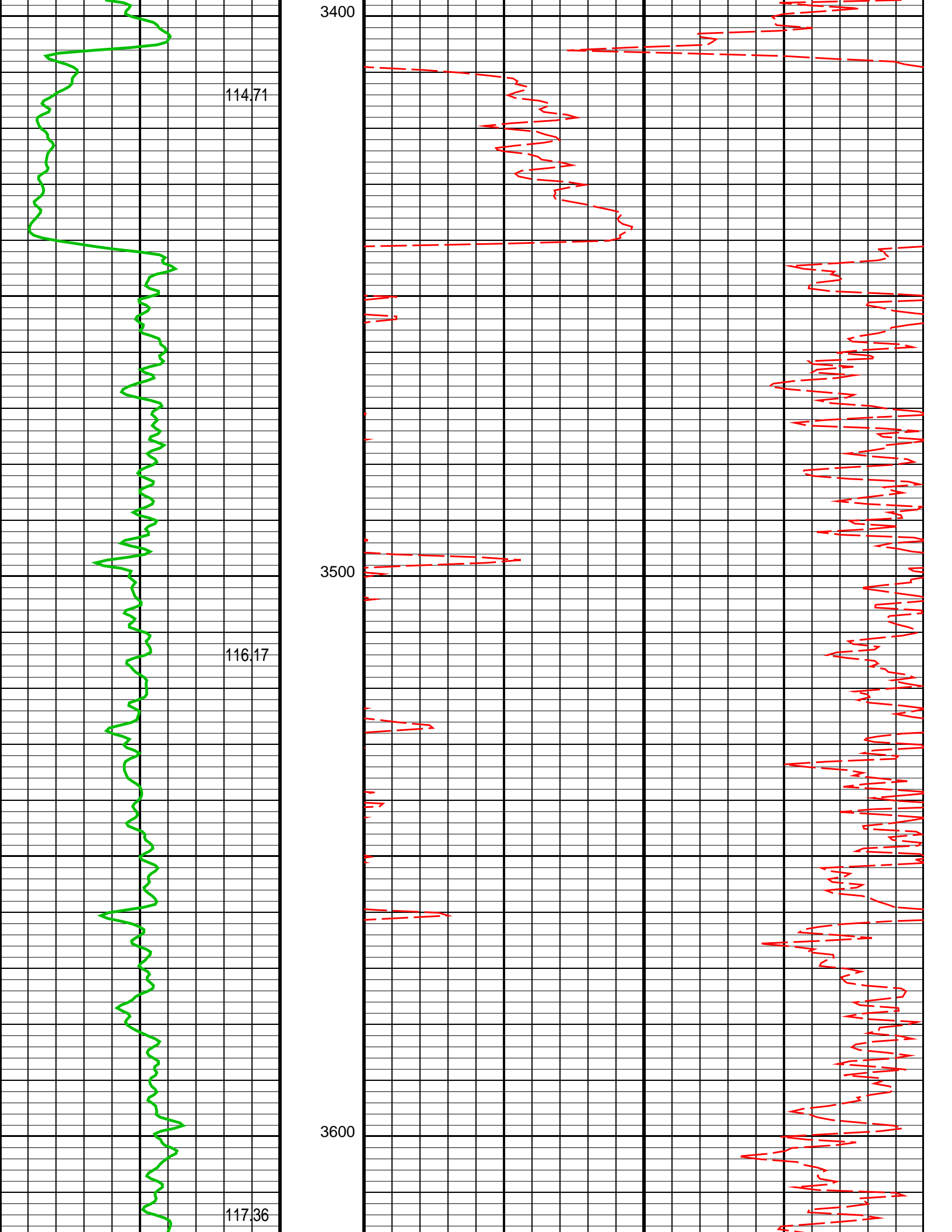
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112.83

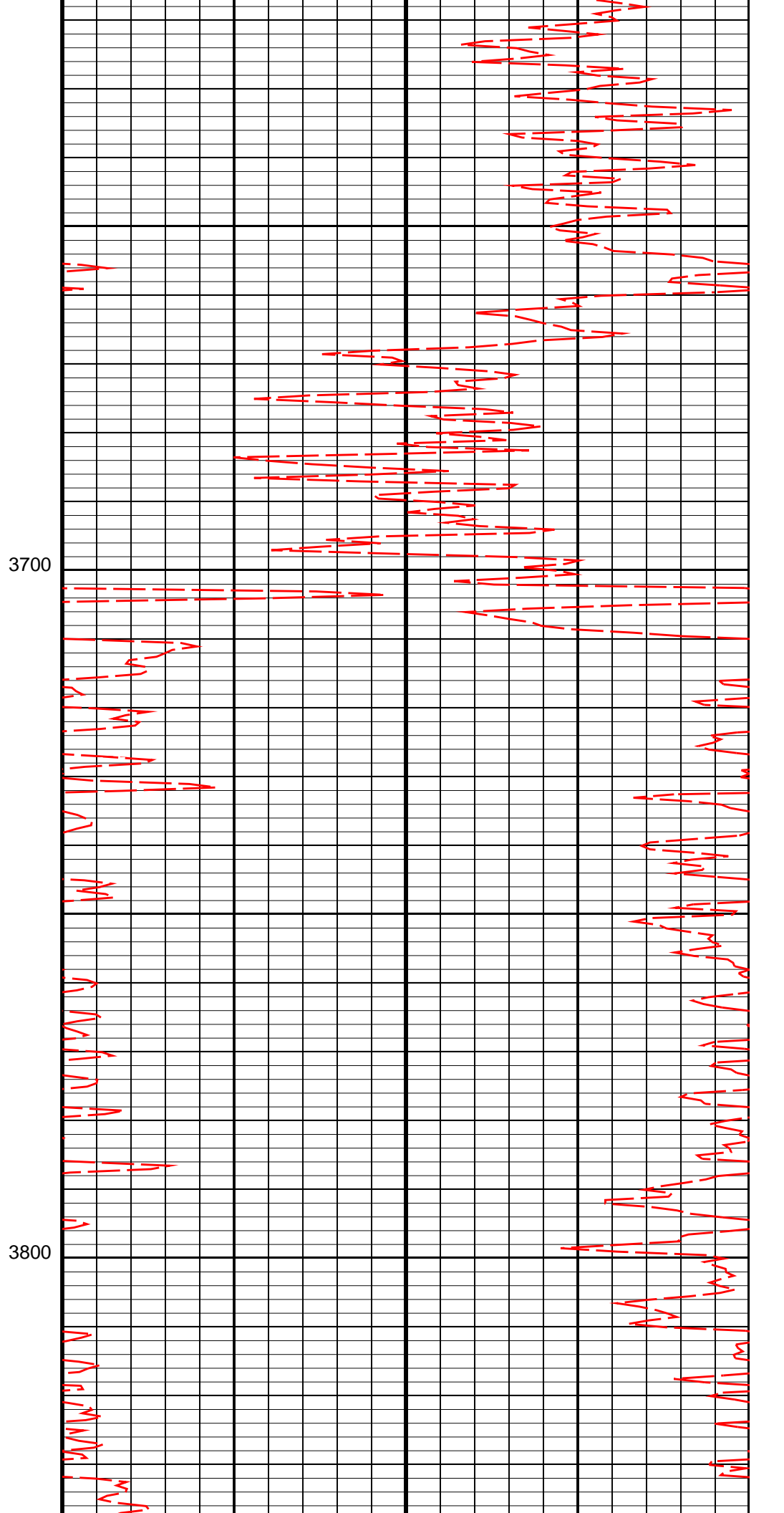
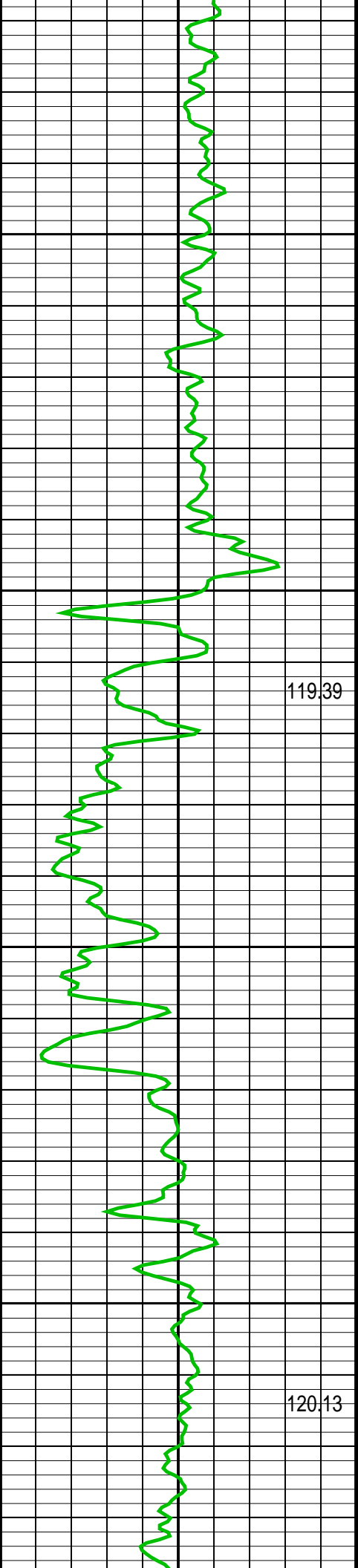
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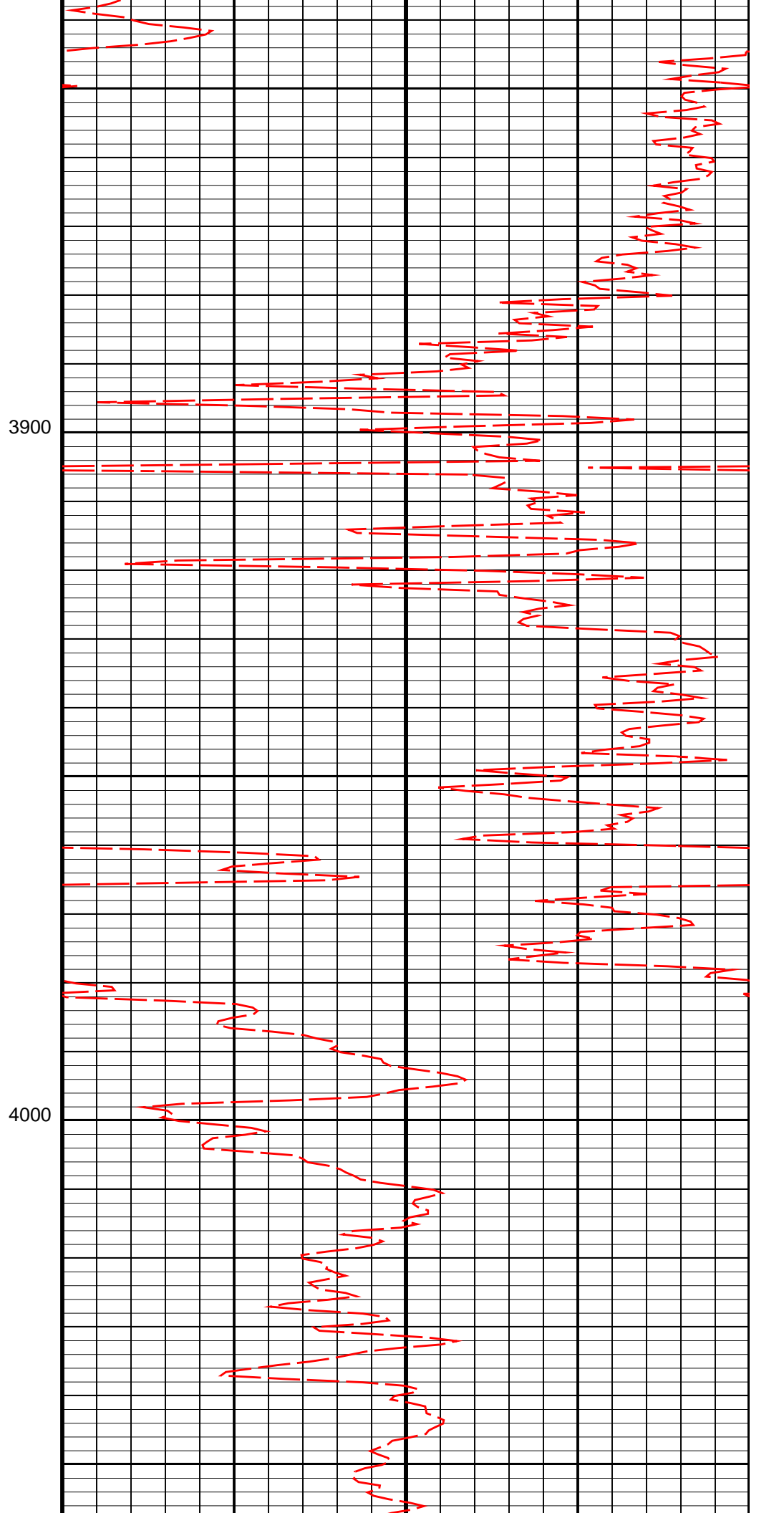
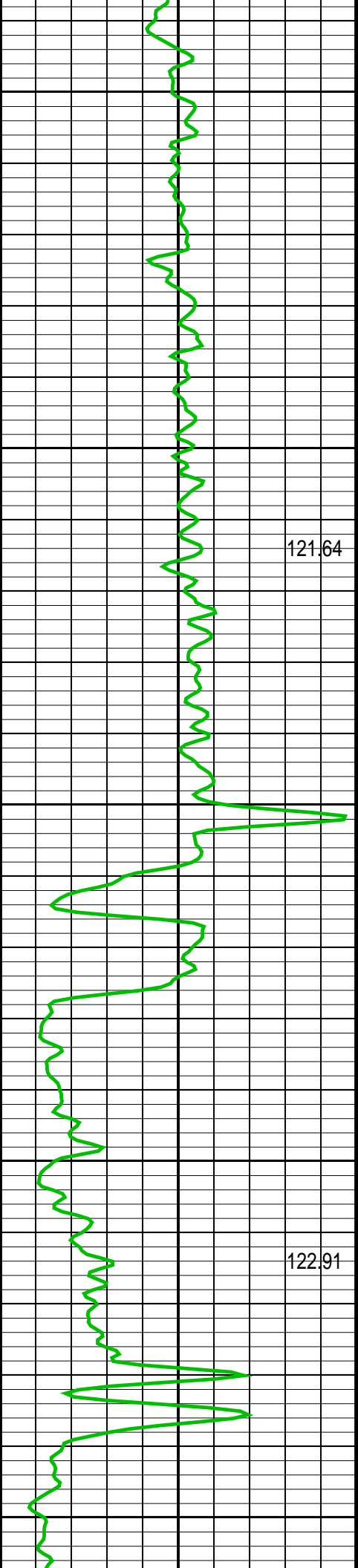
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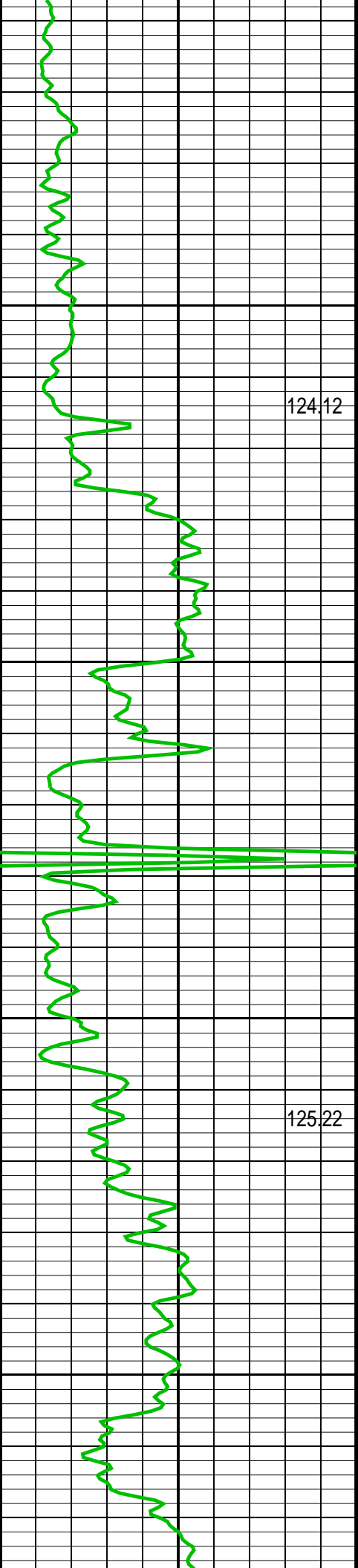










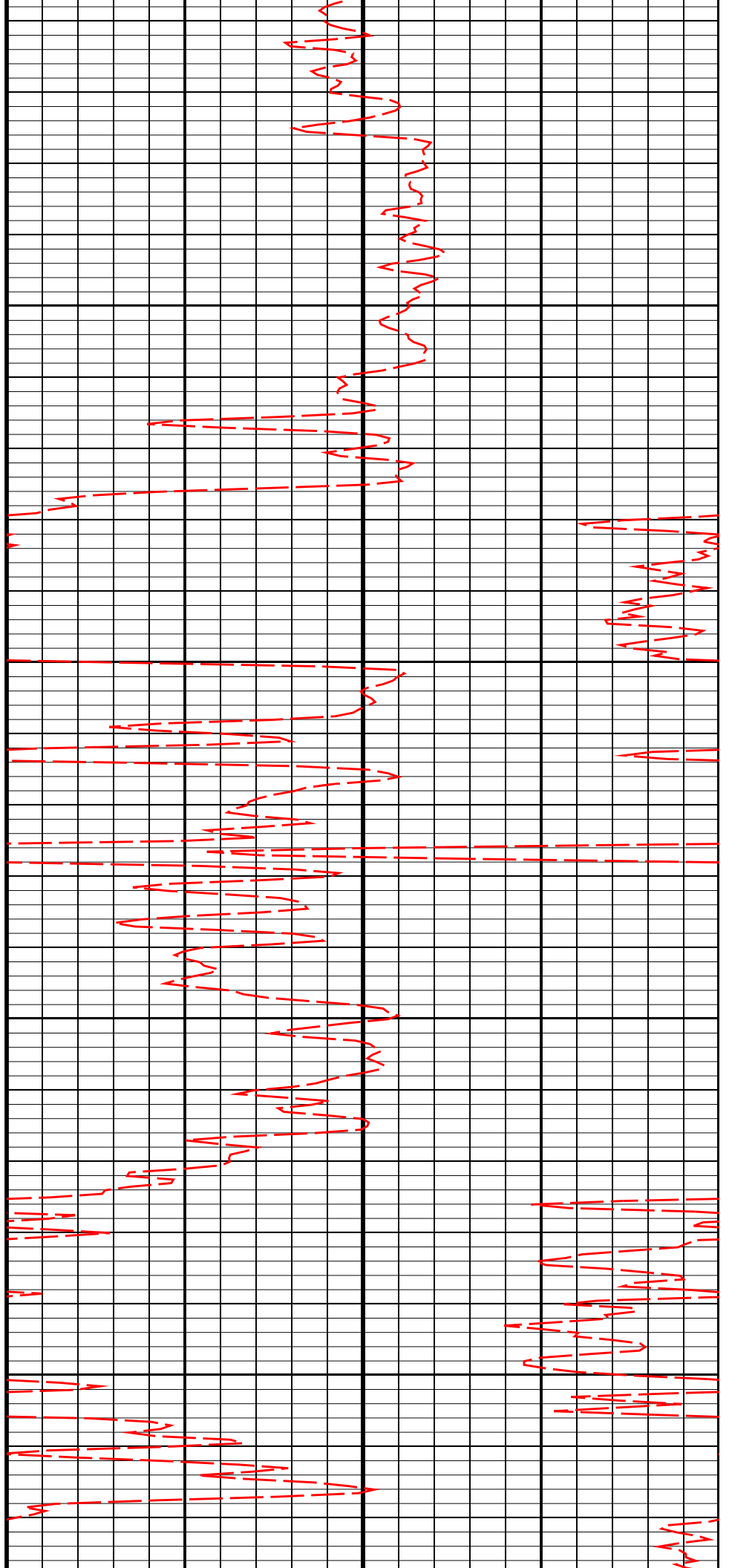


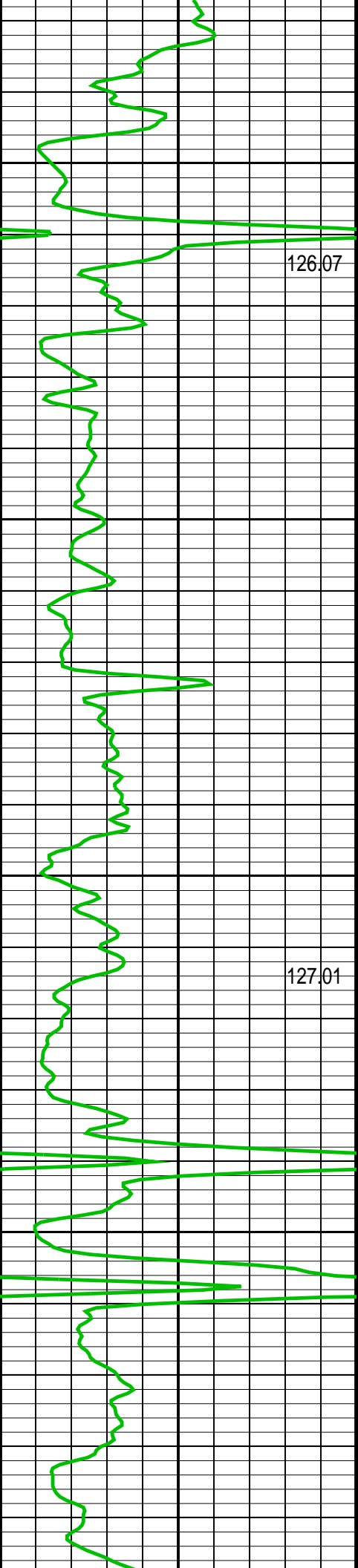
124.12

125.22

4100

4200



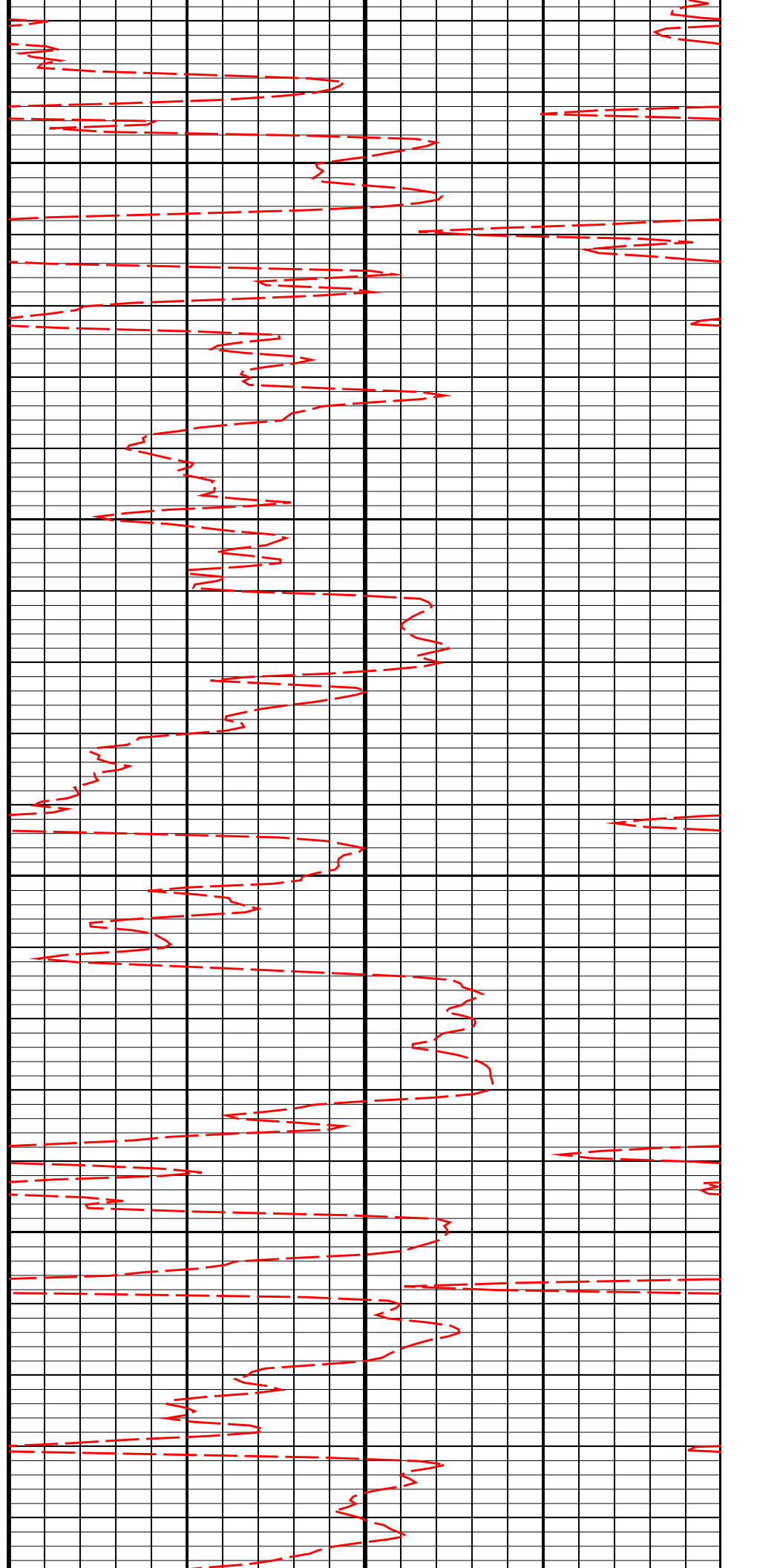


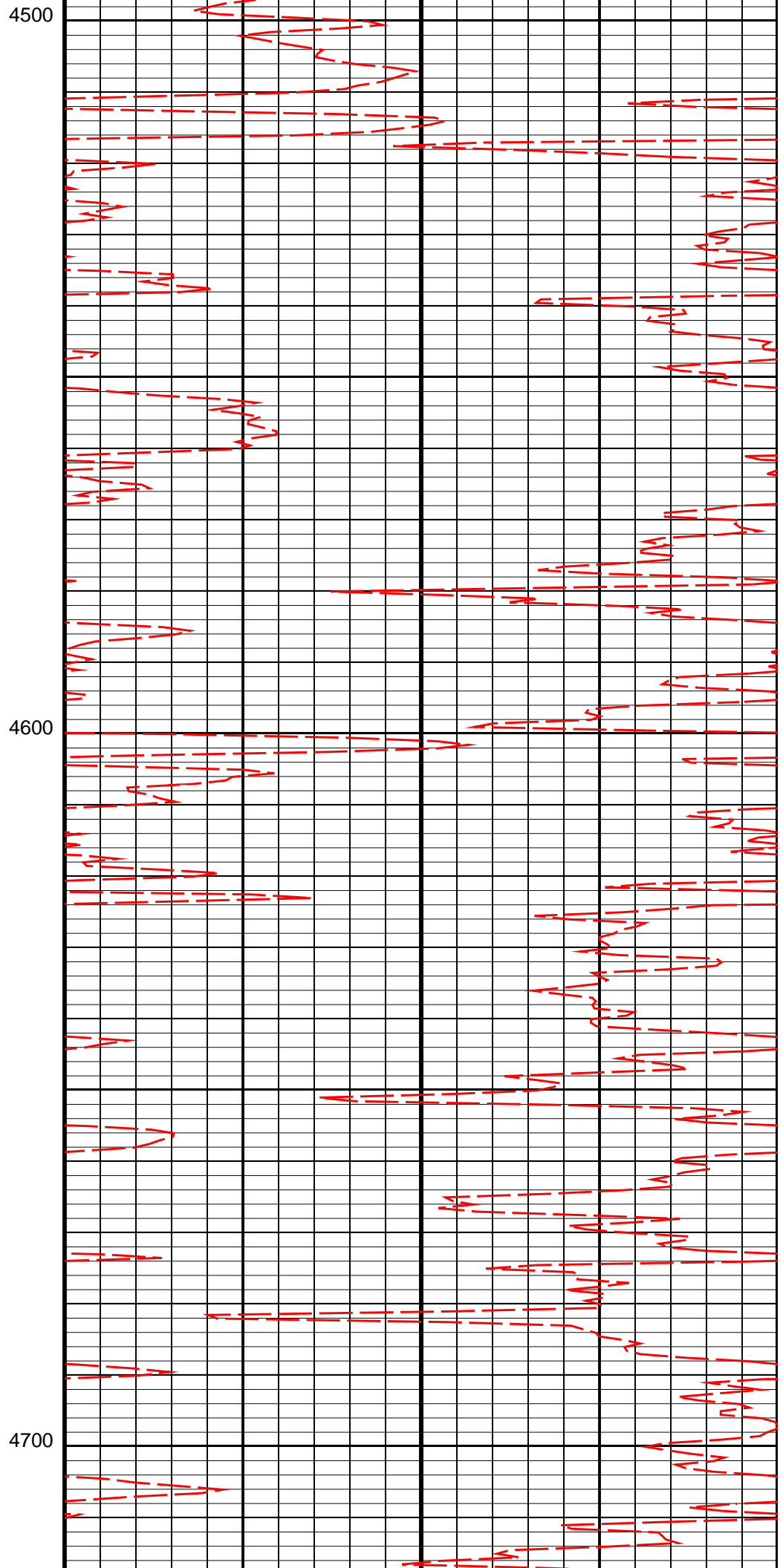
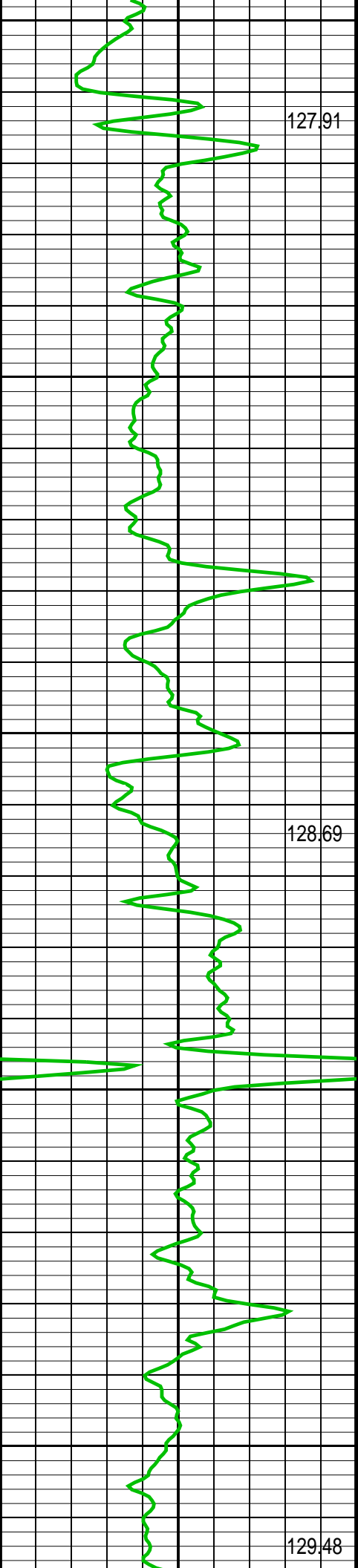
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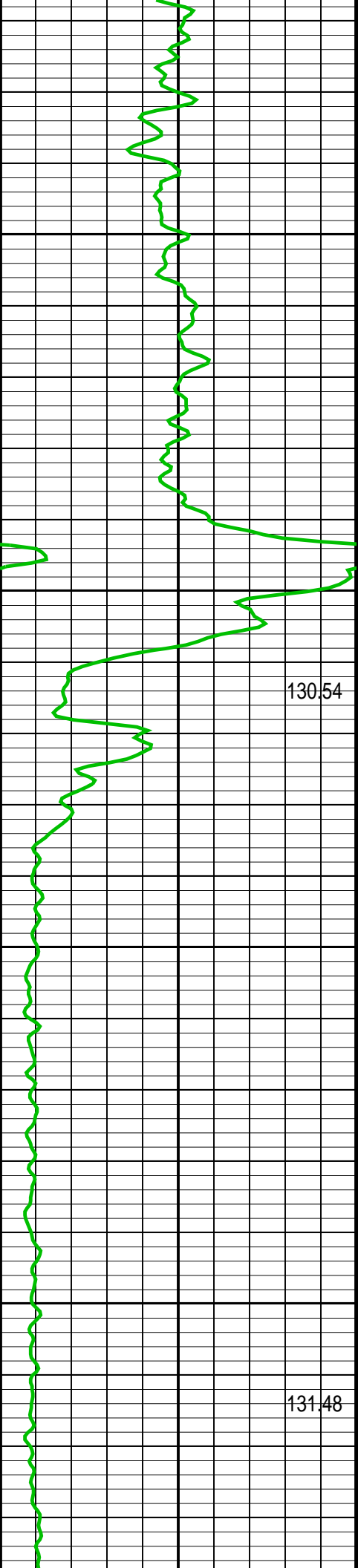
4400

126.07

127.01





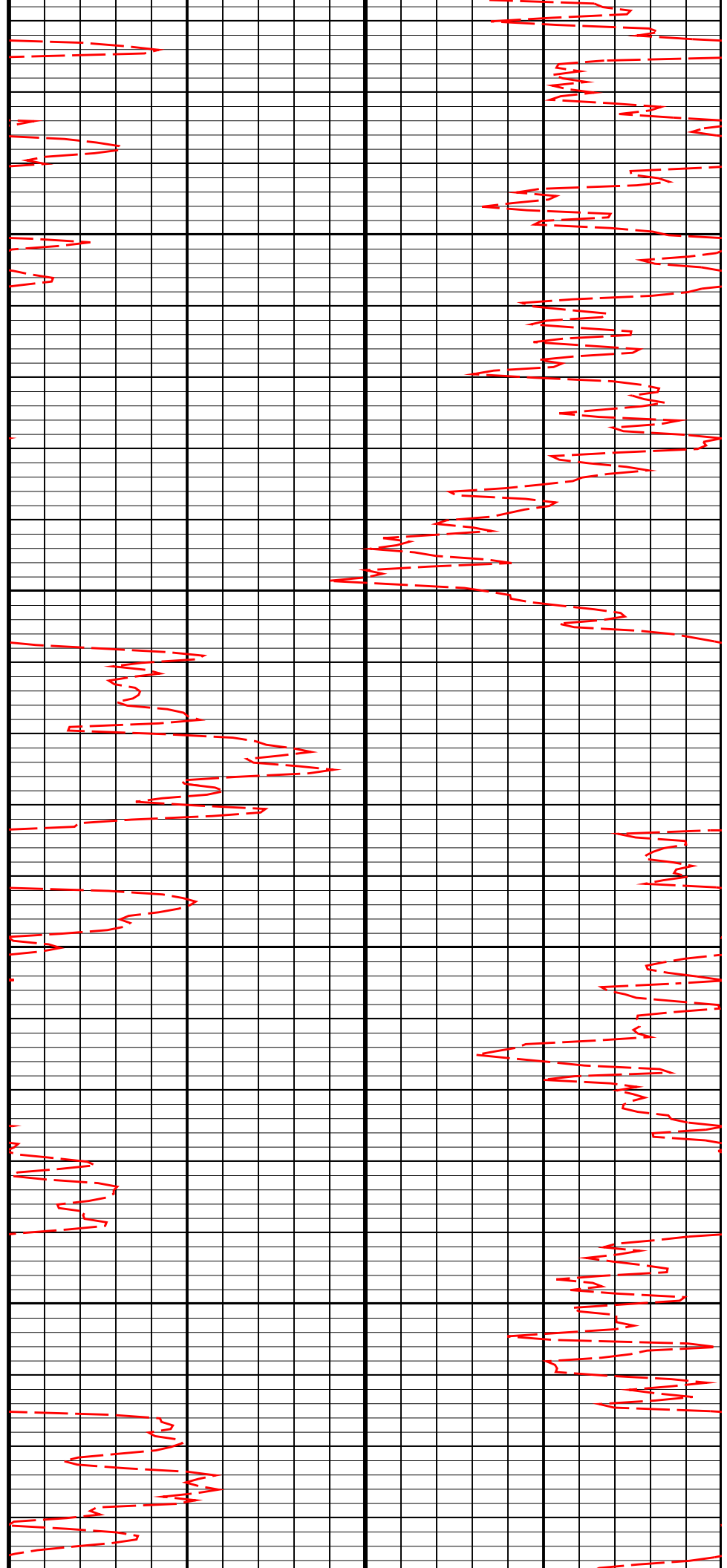


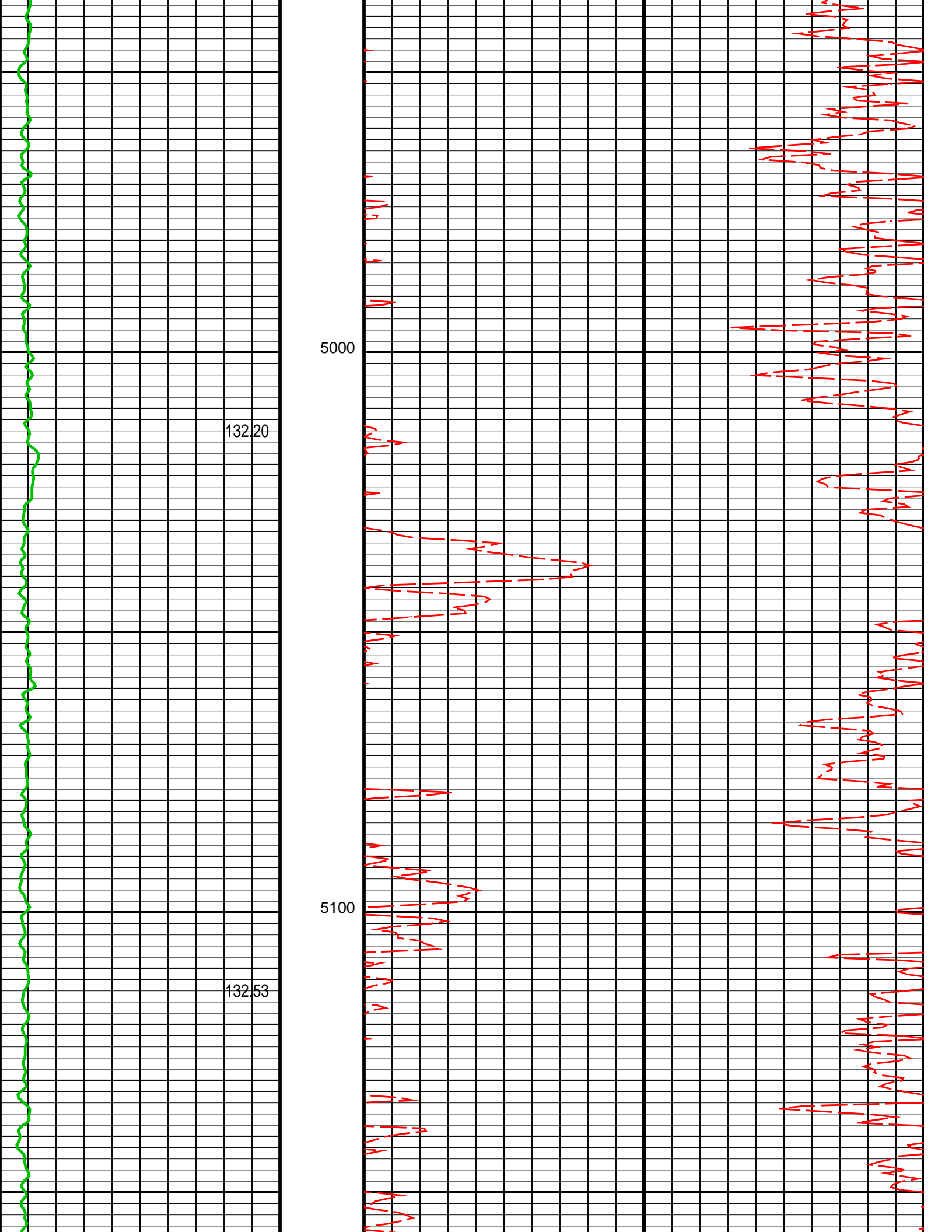
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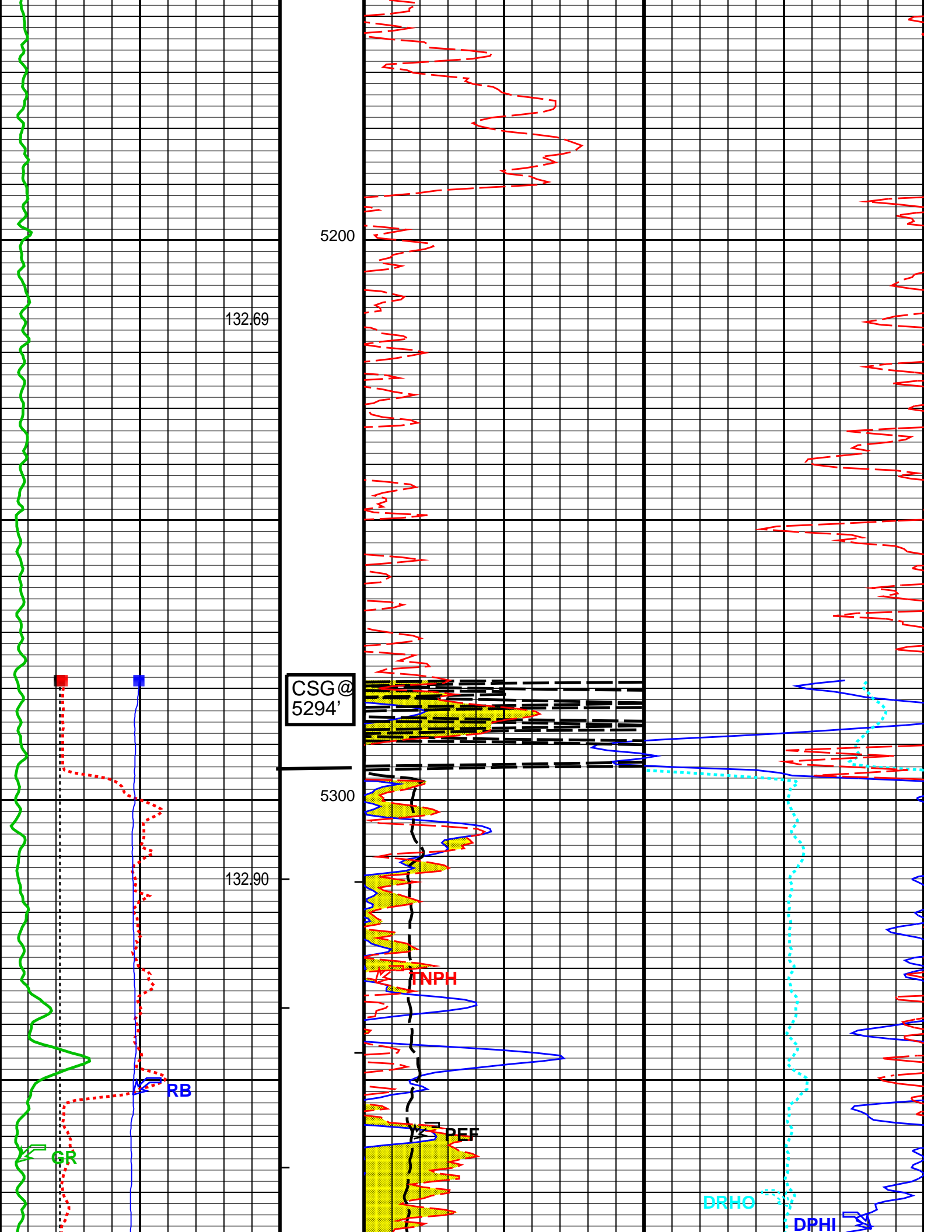
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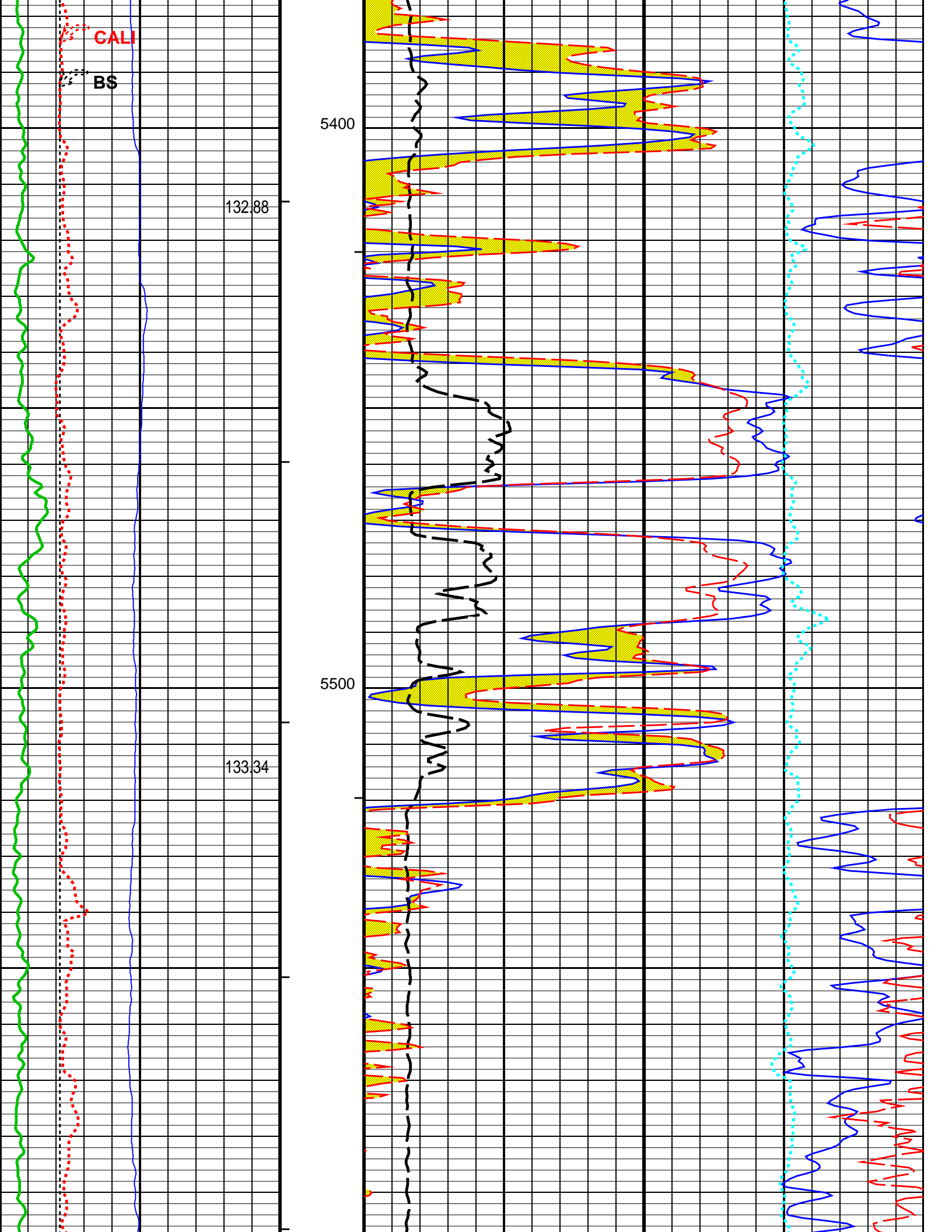
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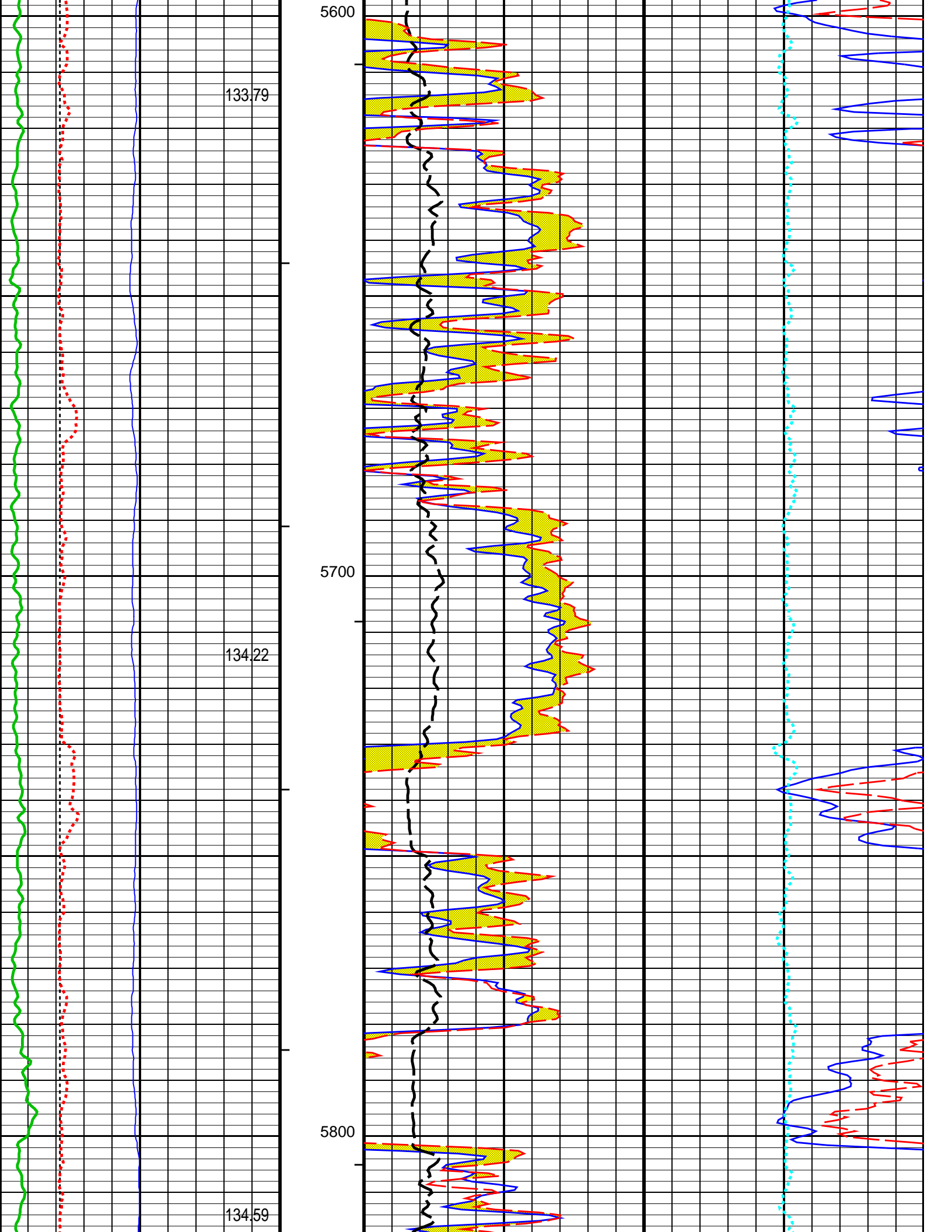


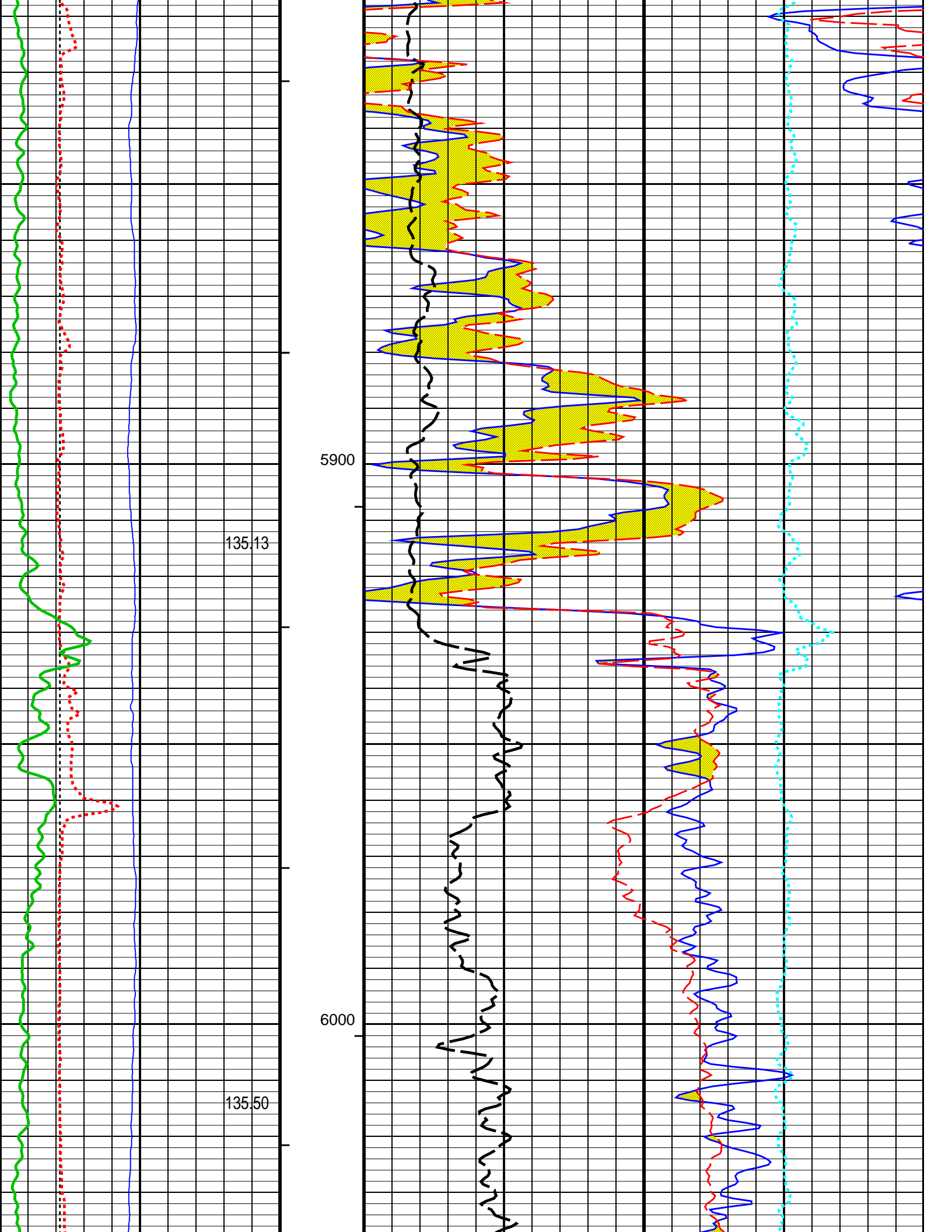


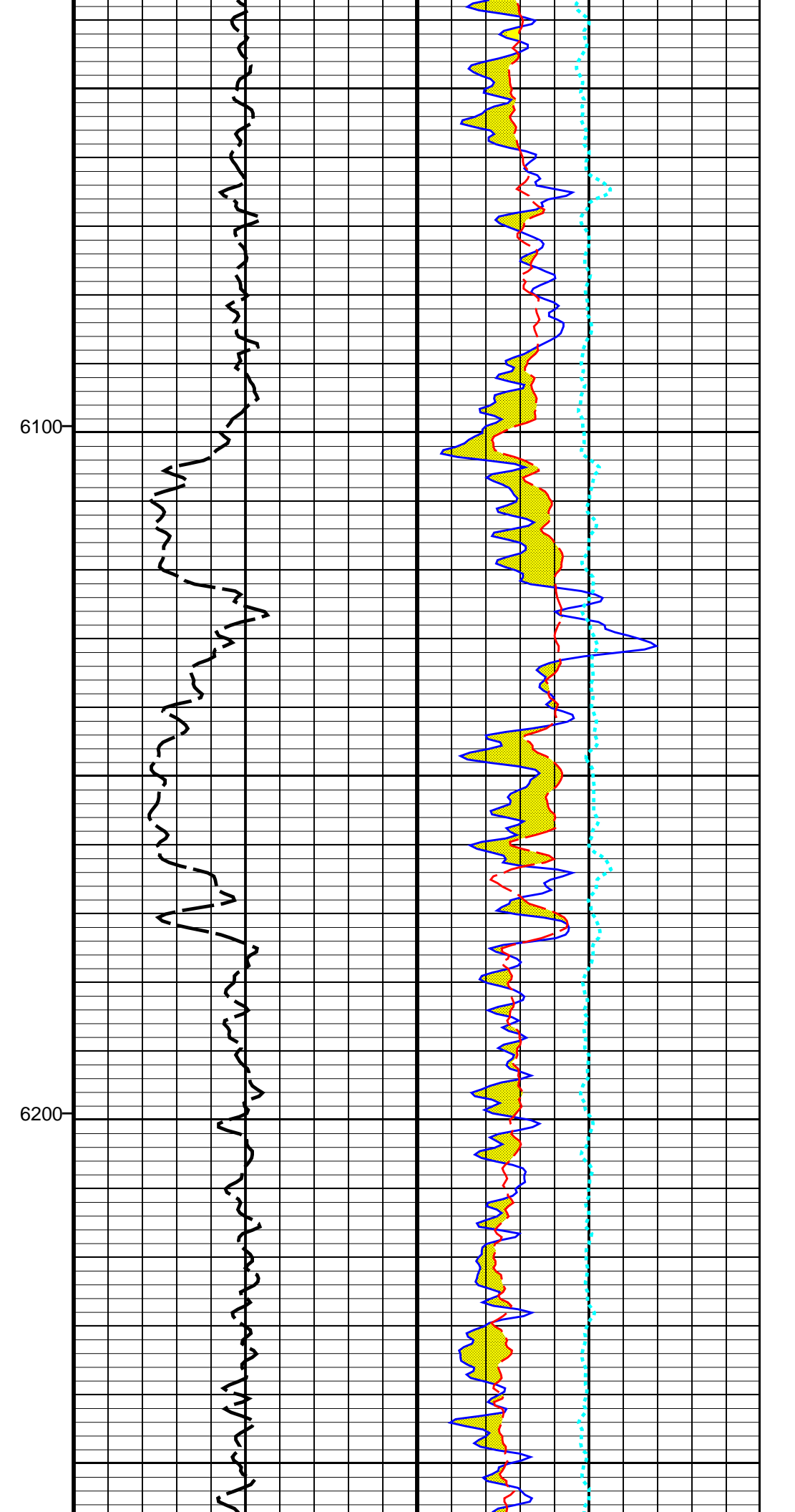
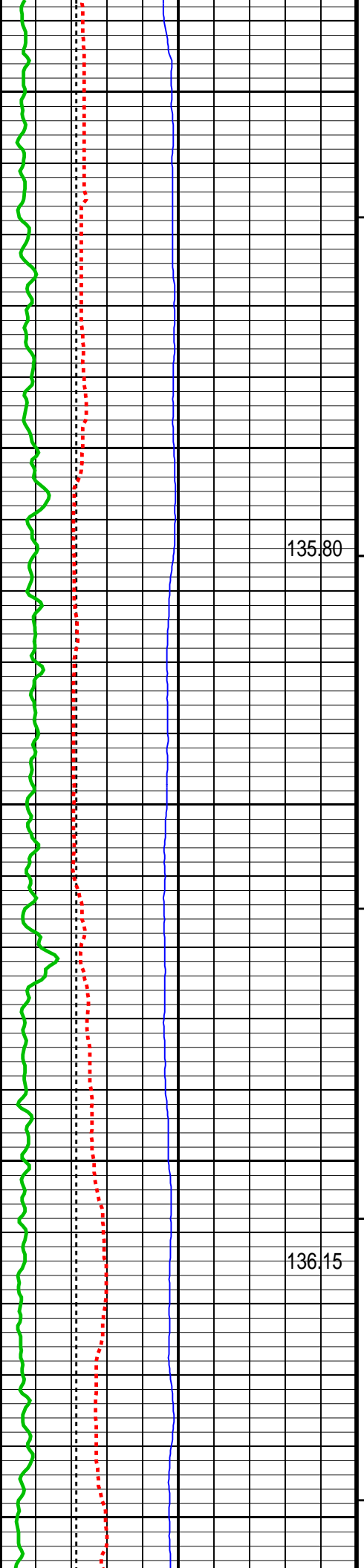


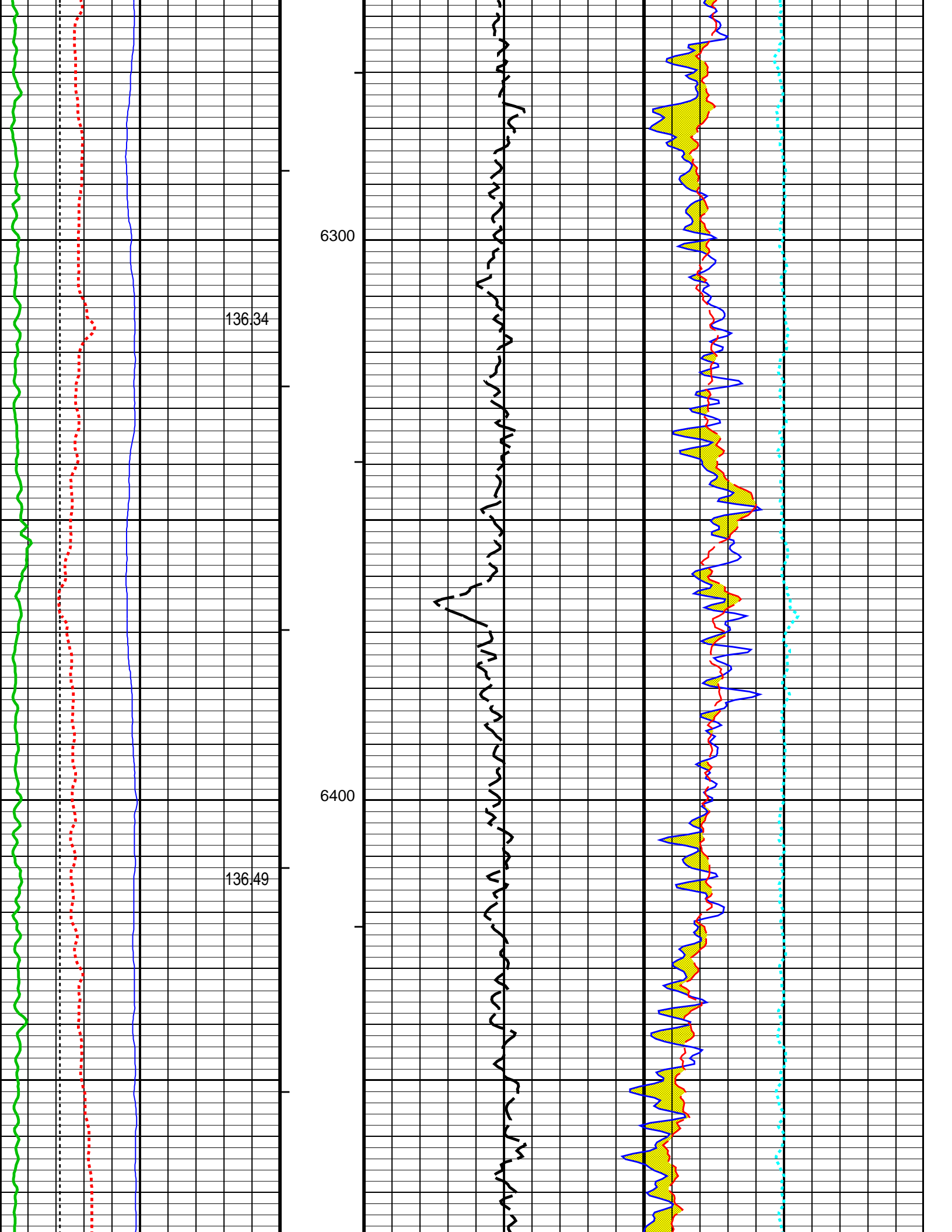


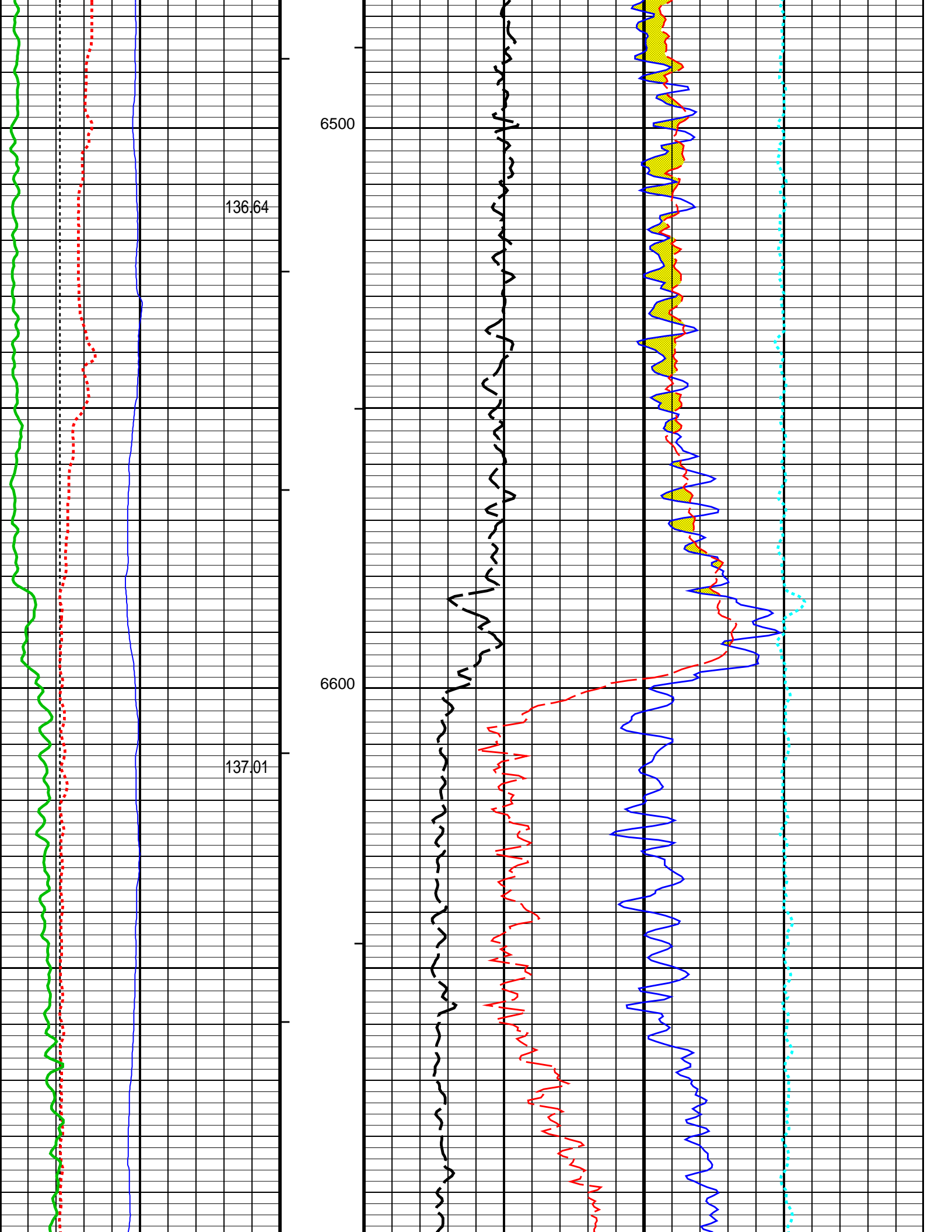


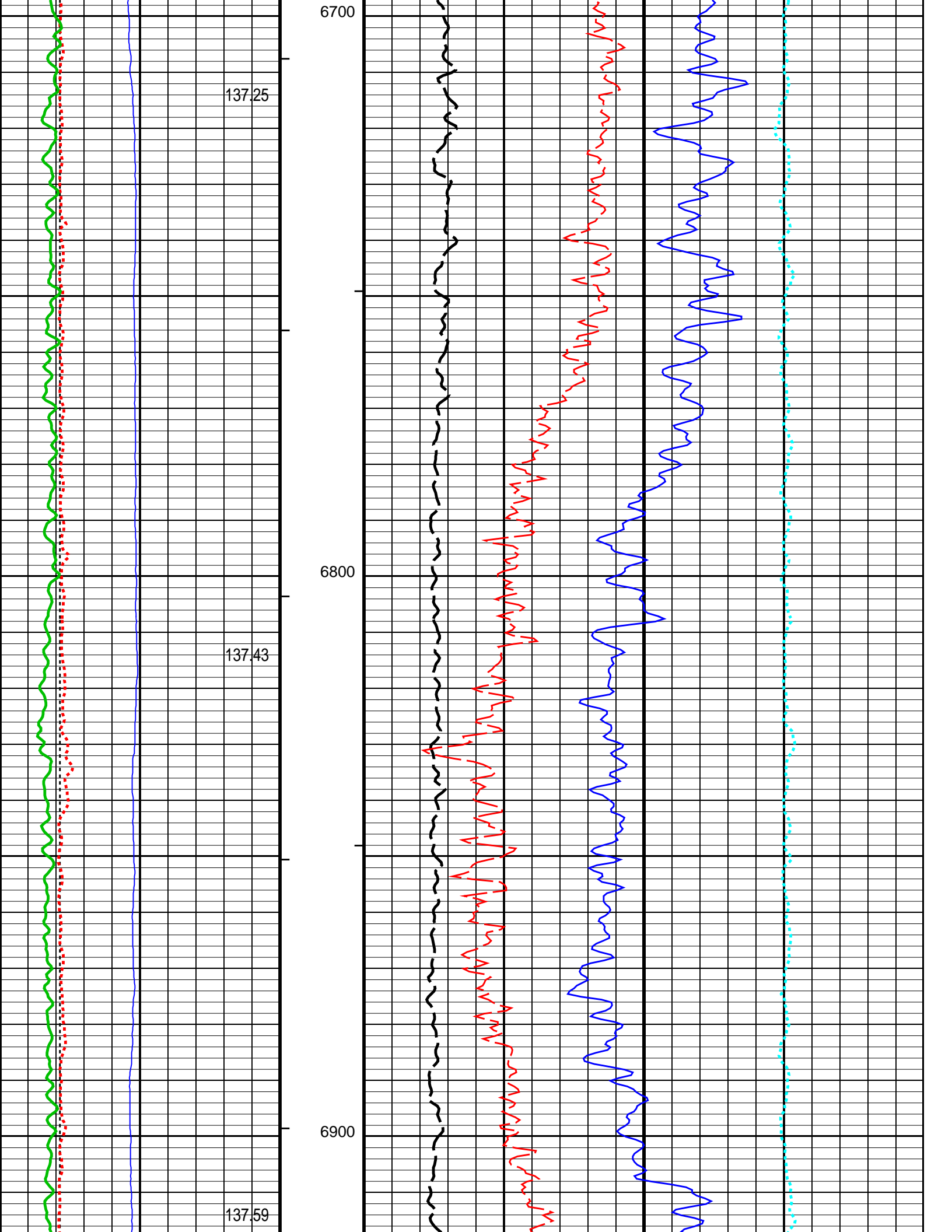


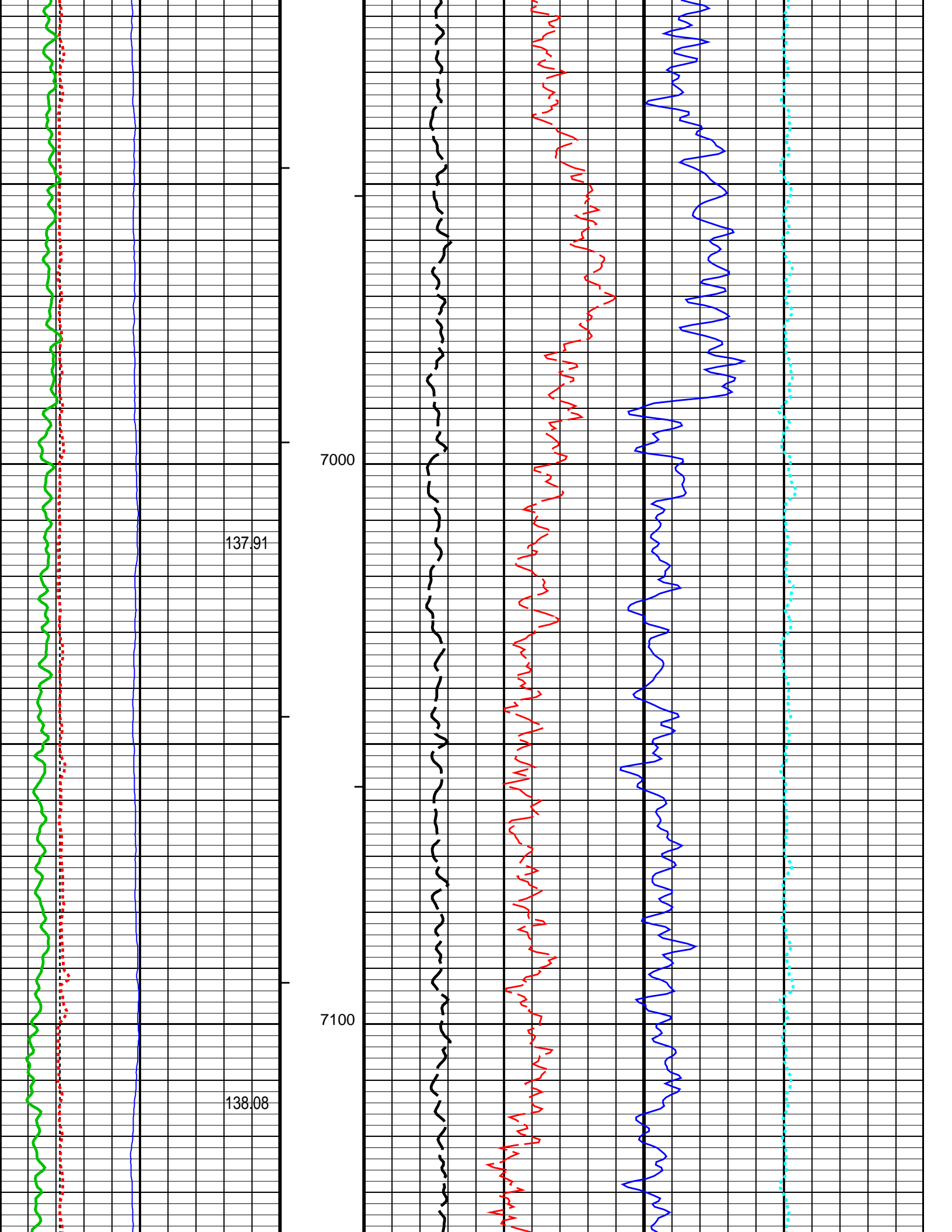




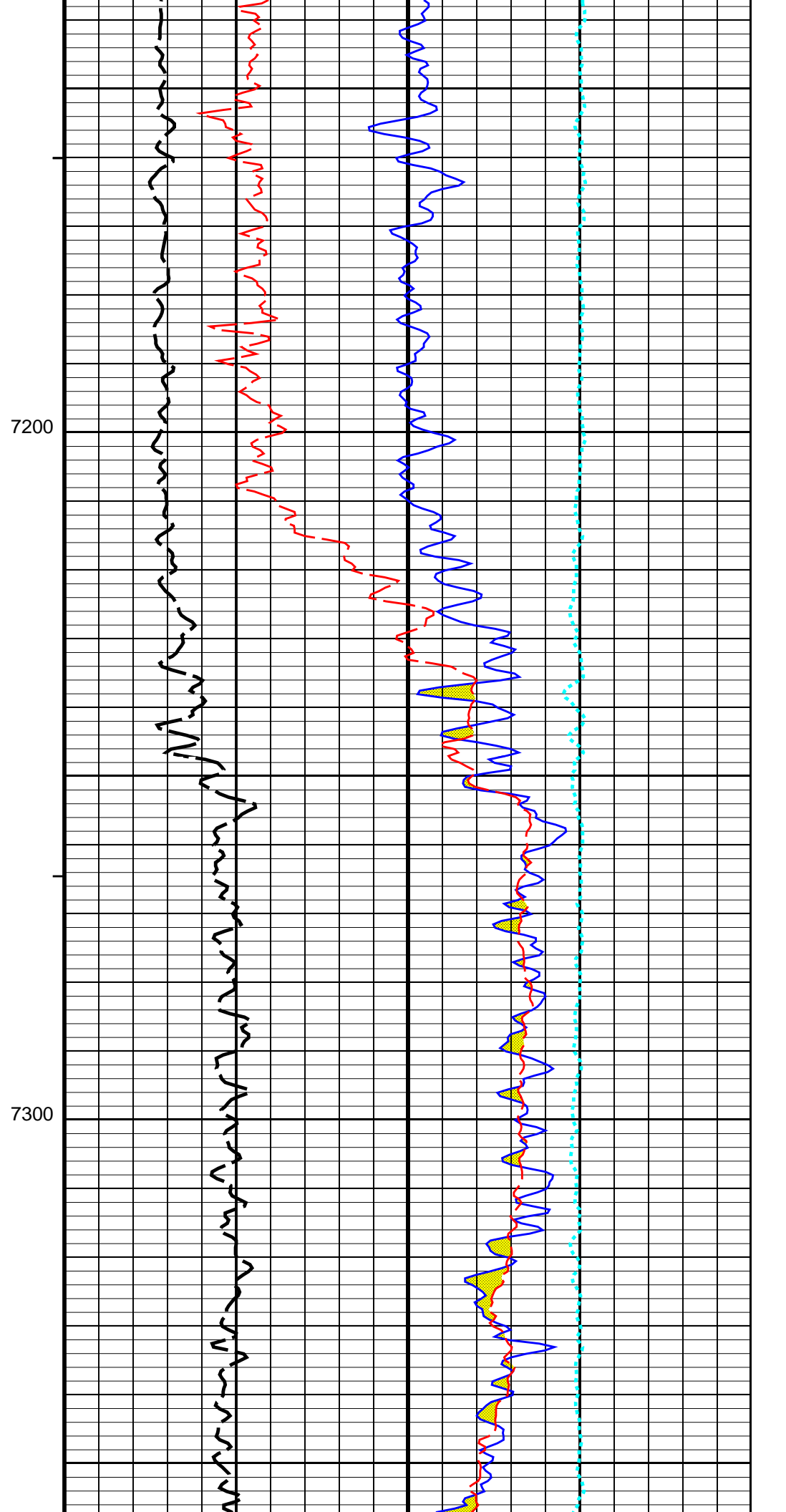
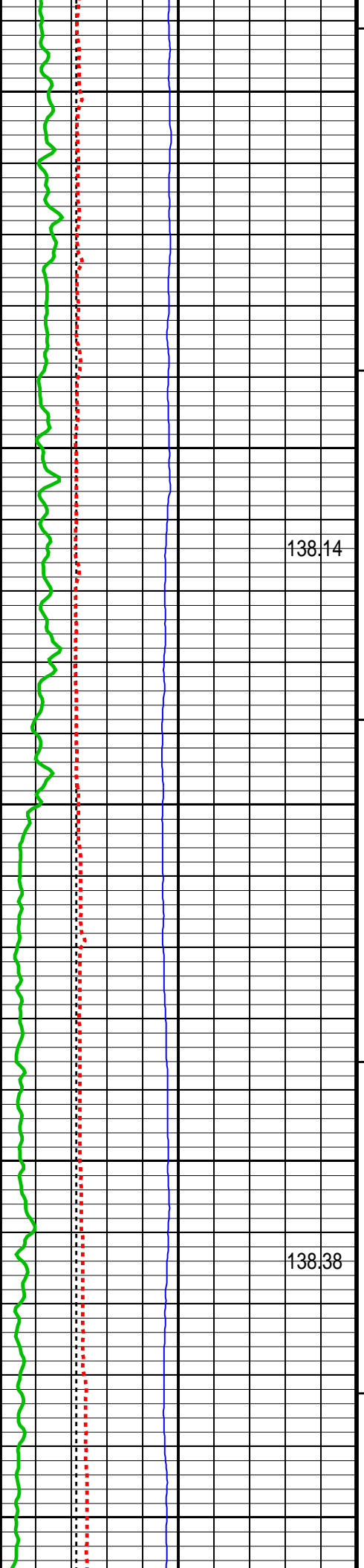


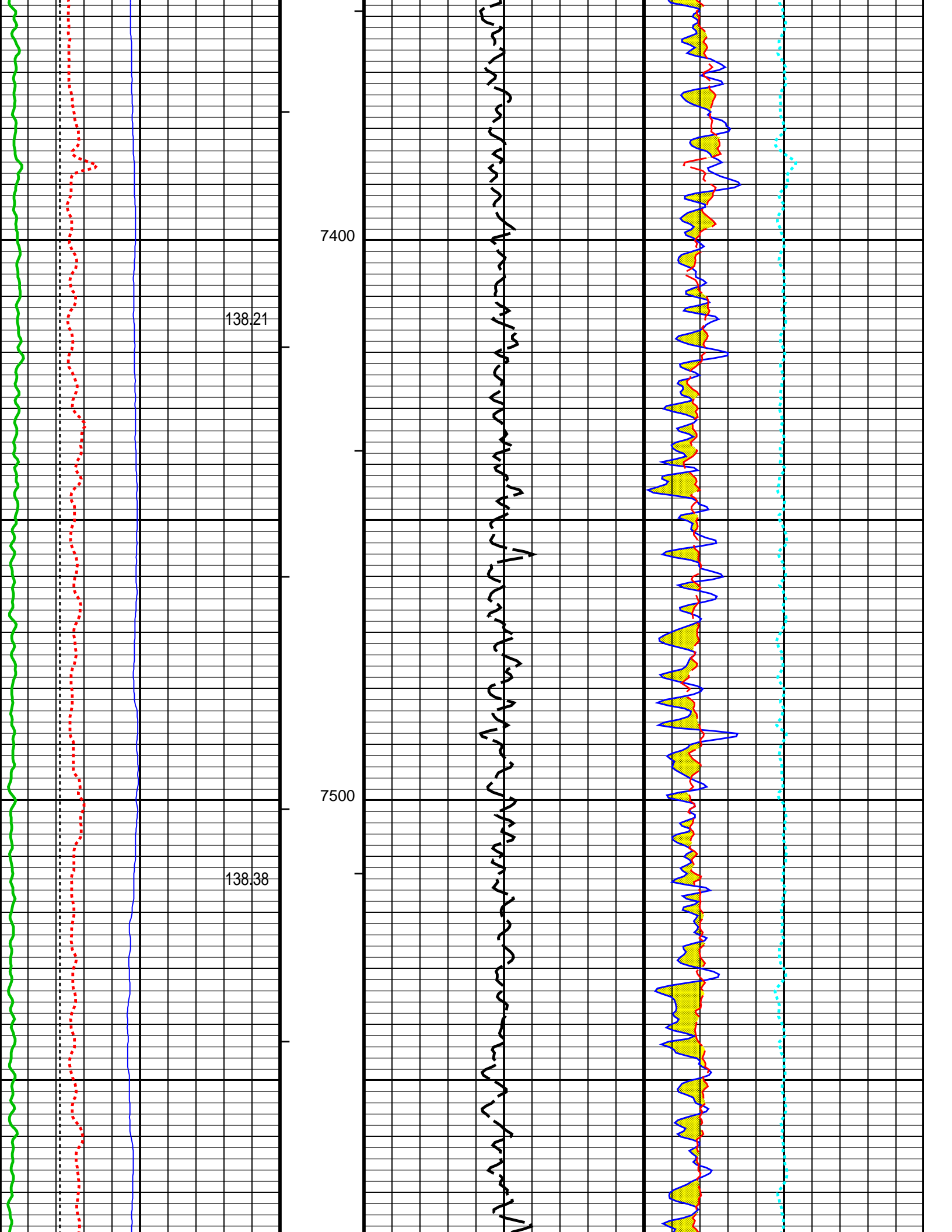


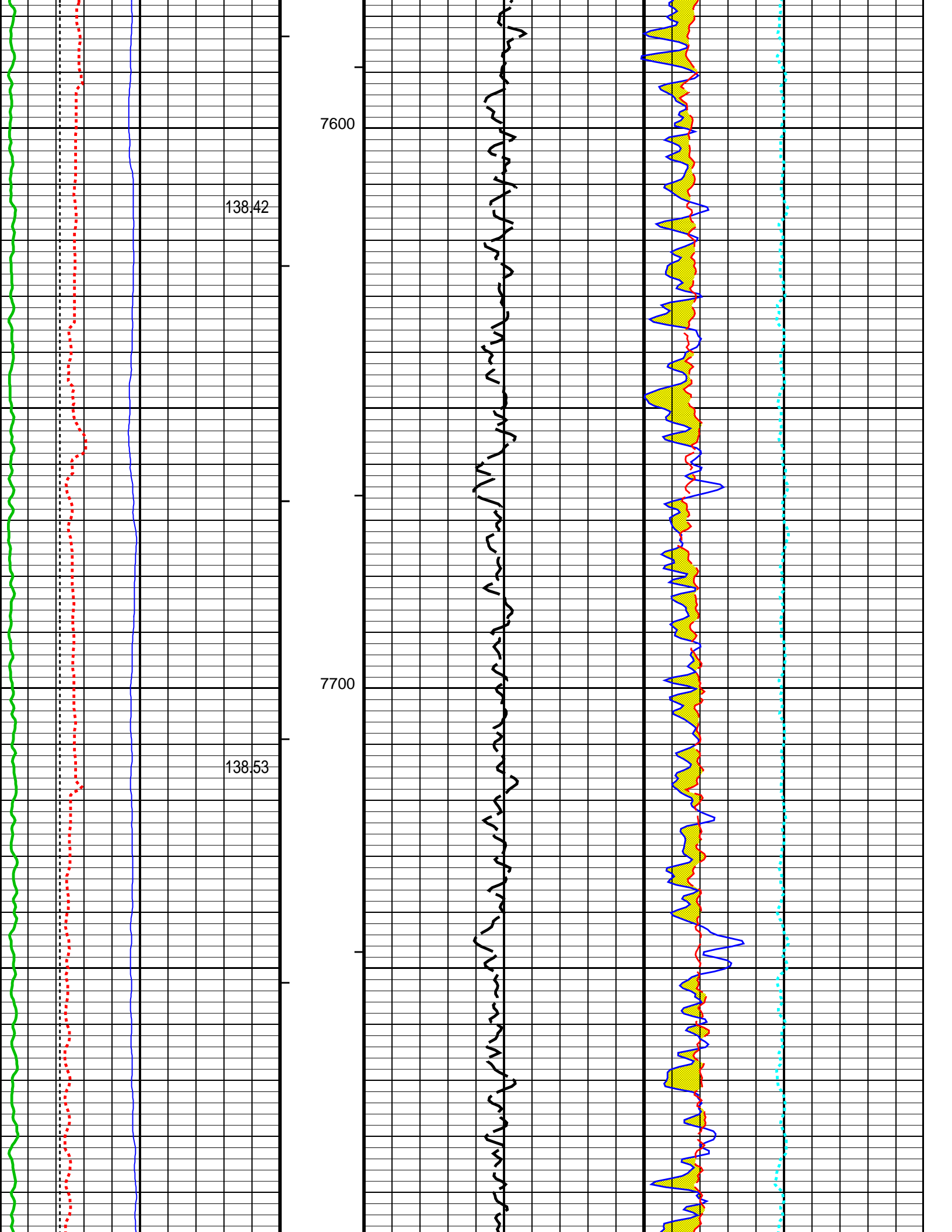


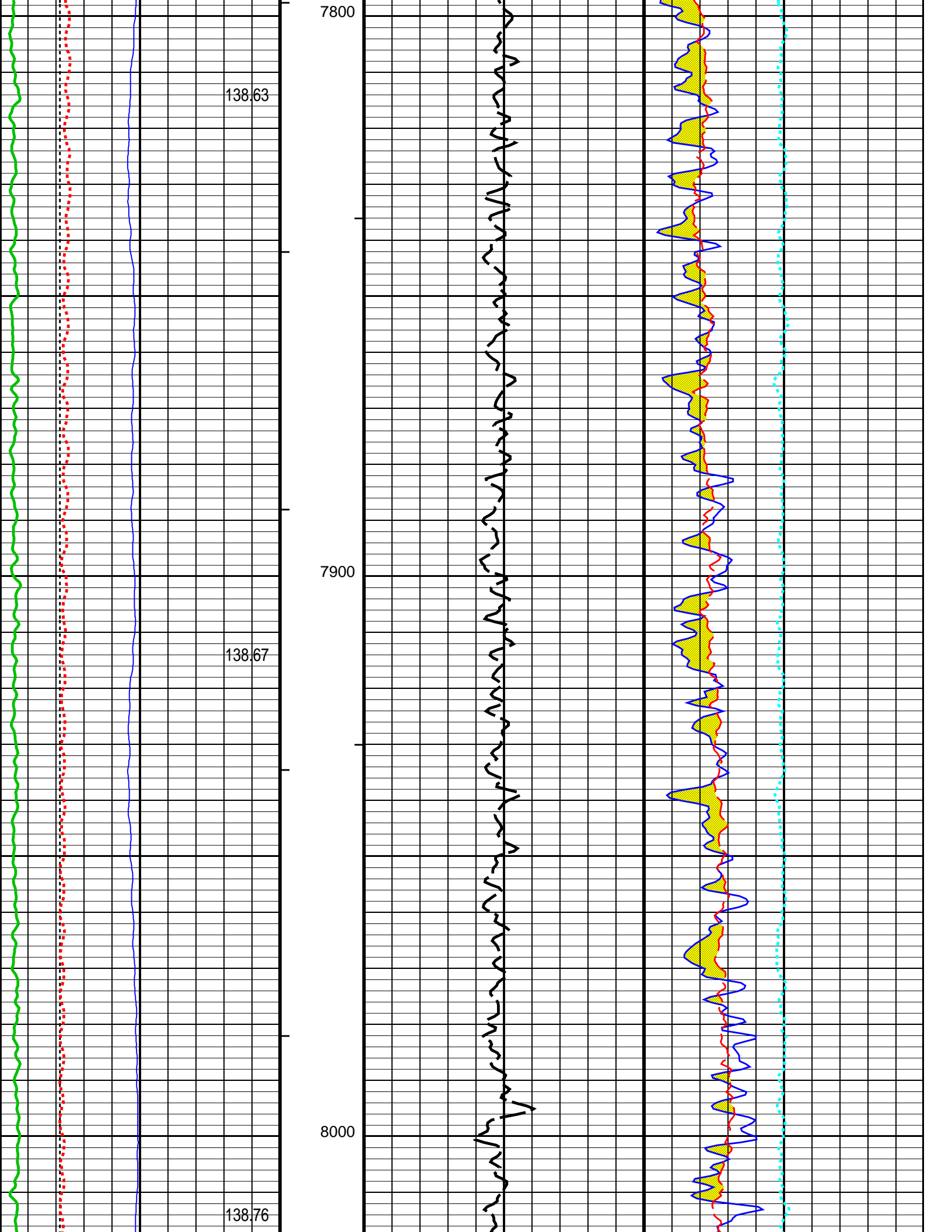


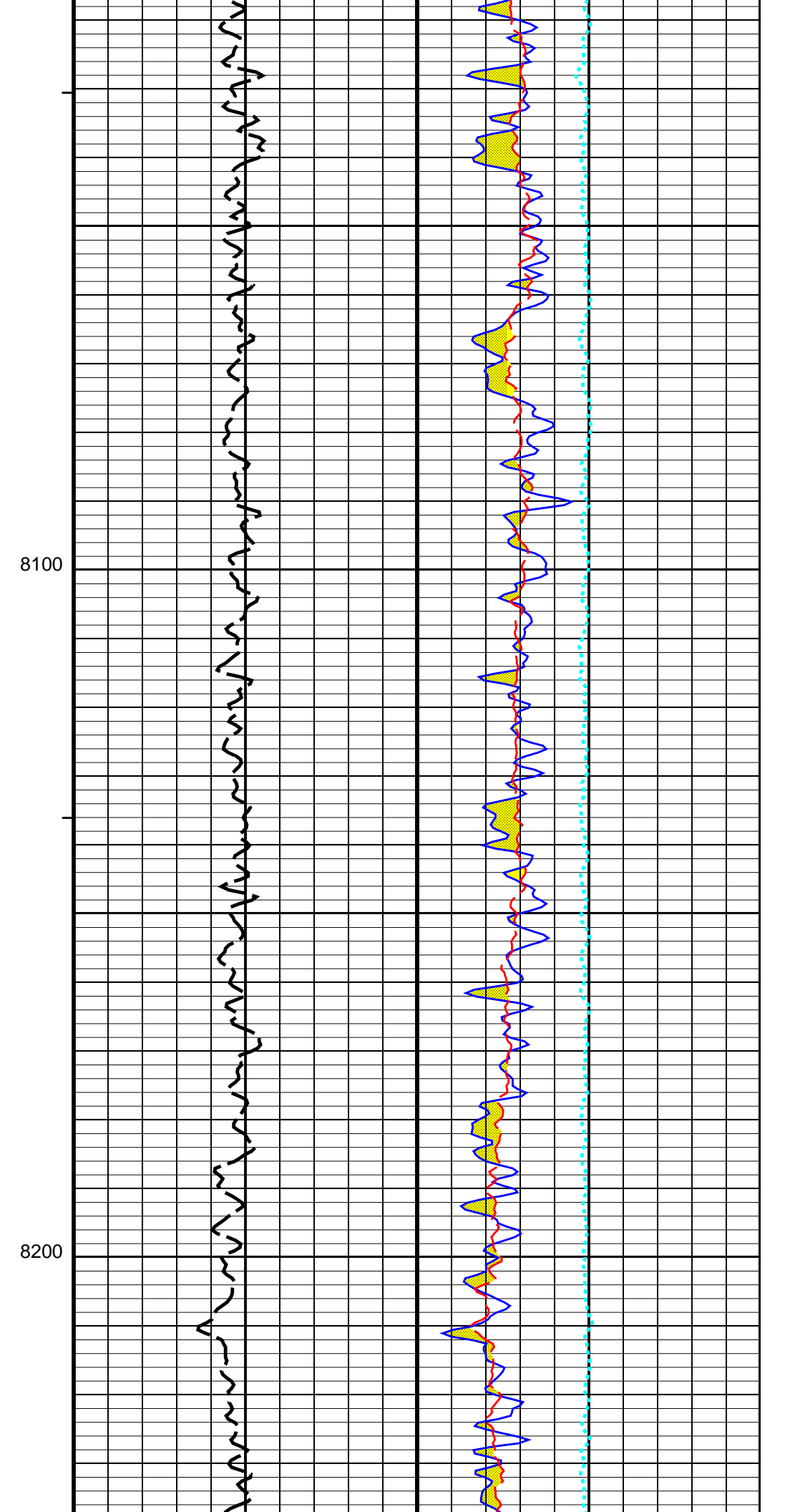
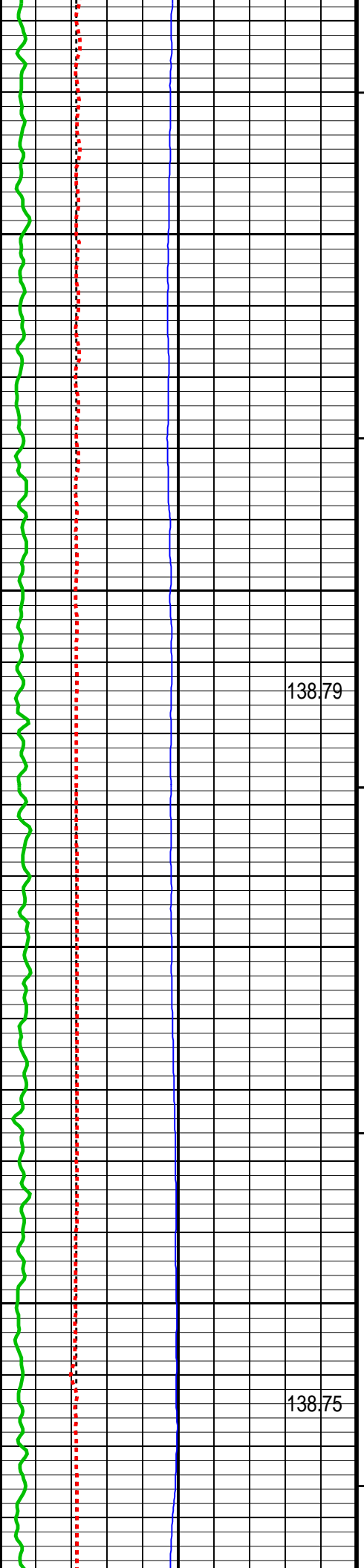


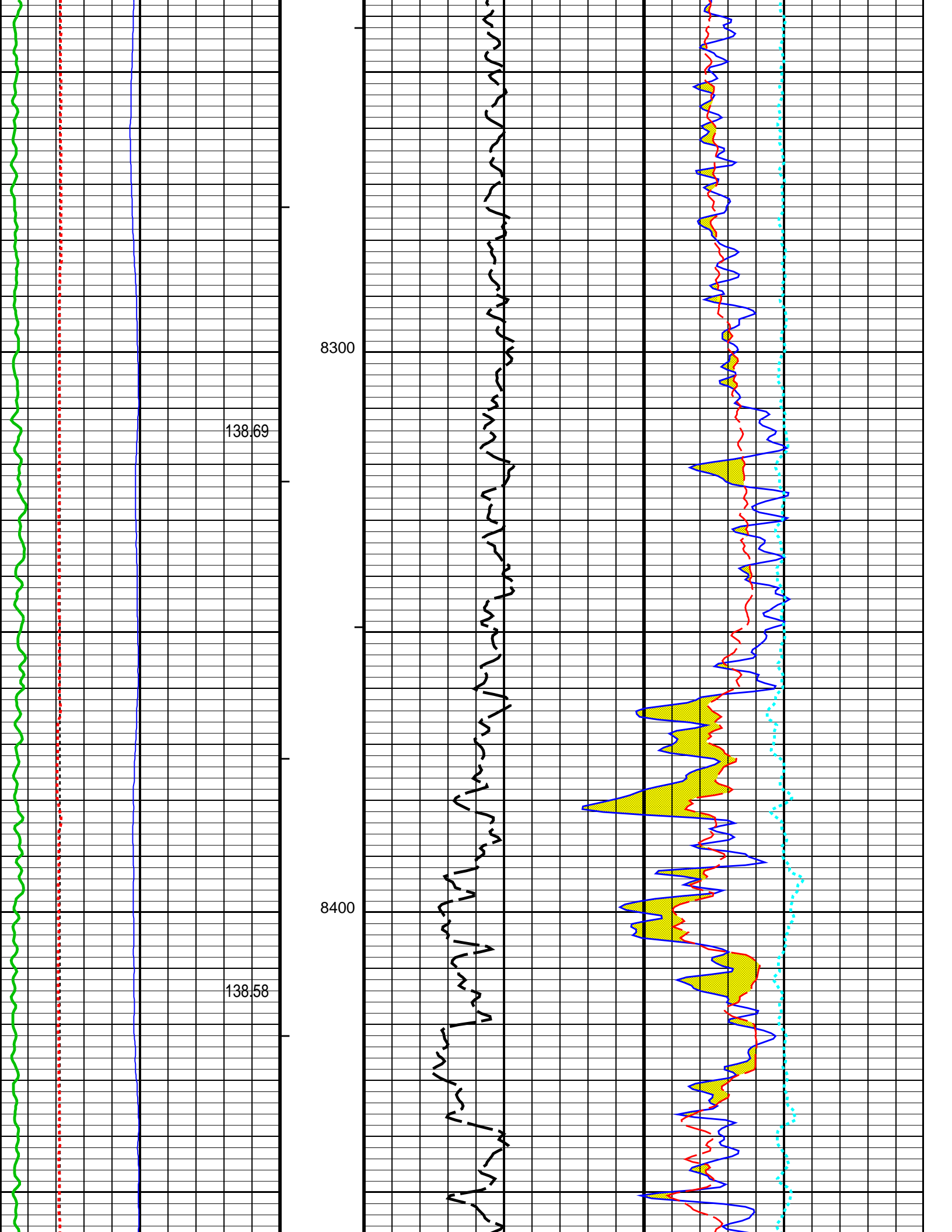


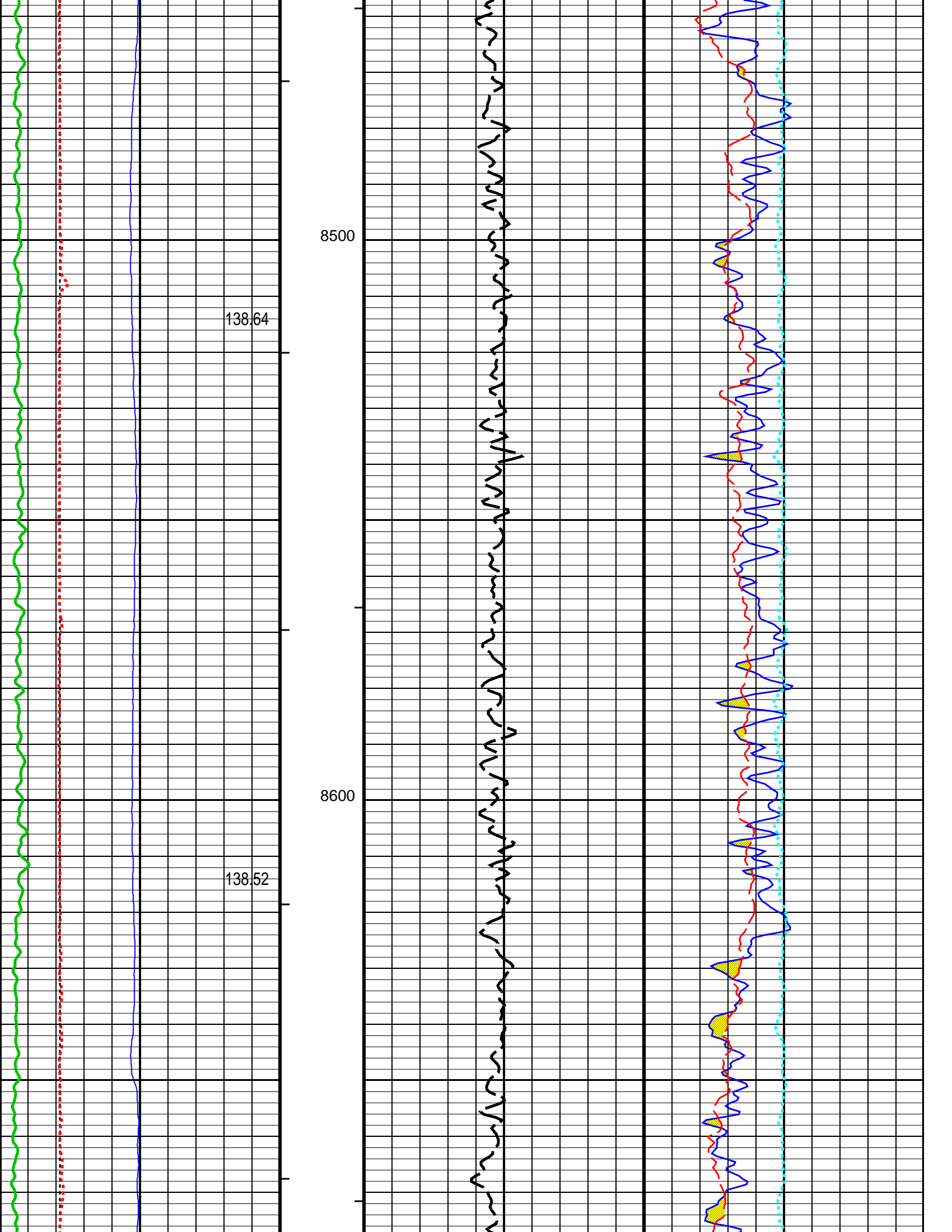


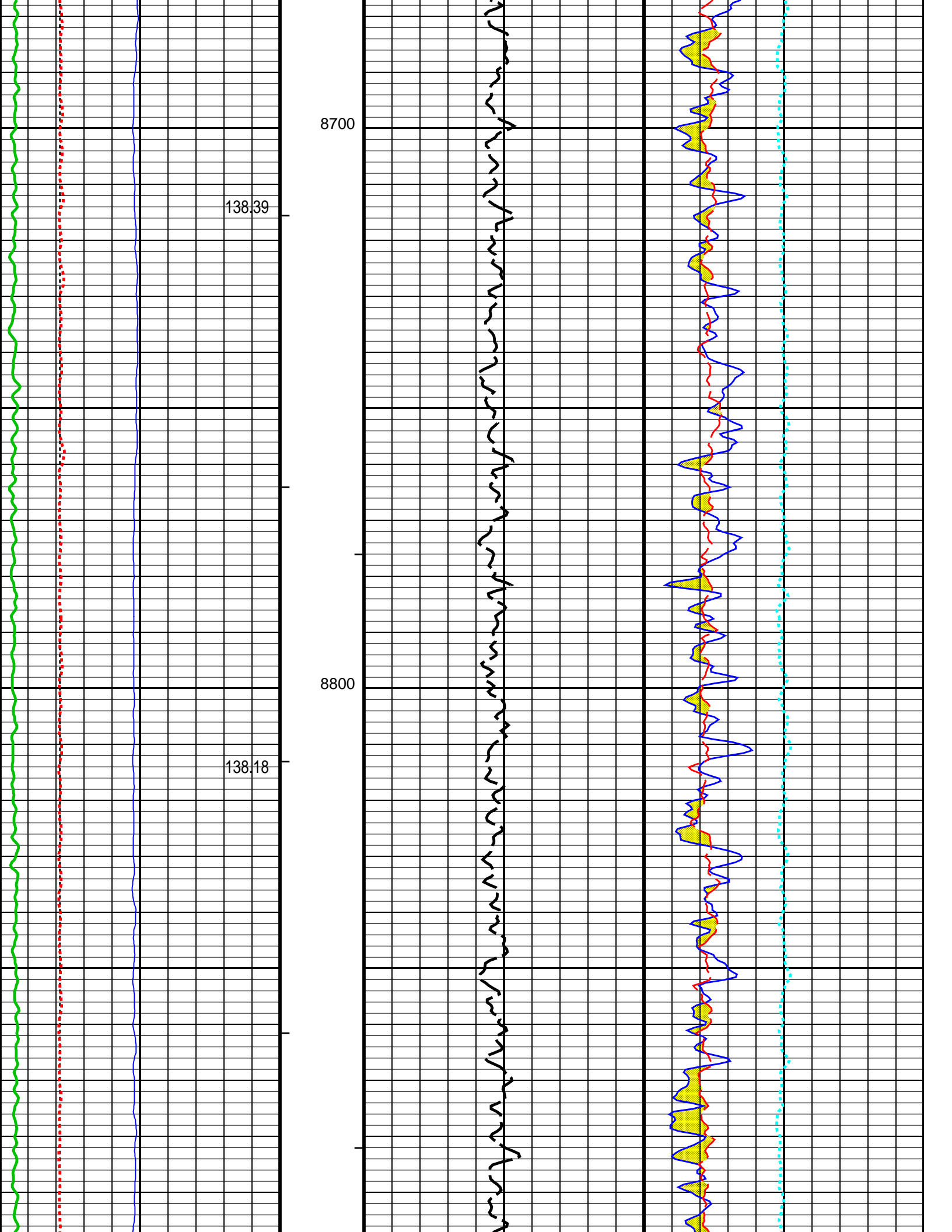




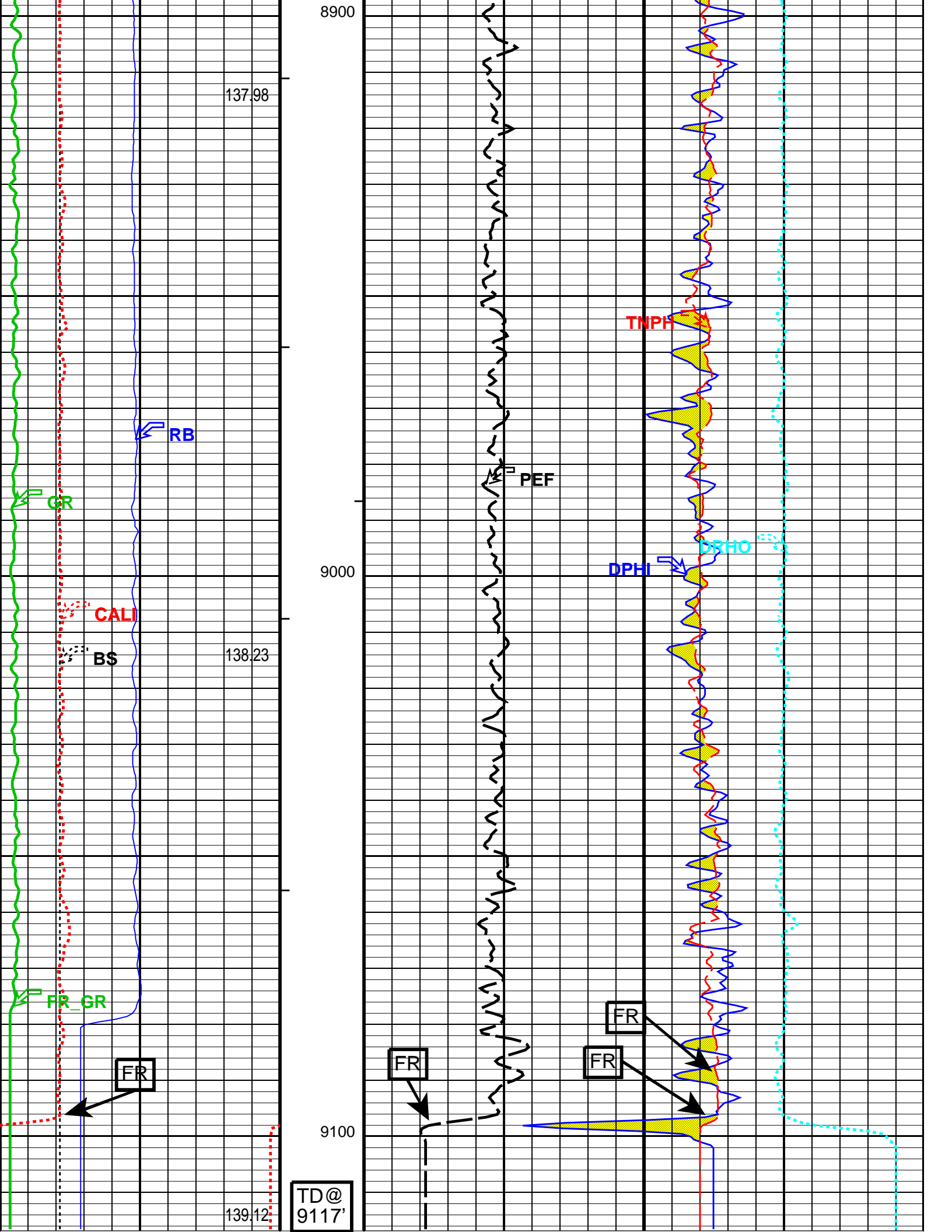












Relative Bearing (RB) 0 (DEG) 360		DPHI (DPHI) 30 (PU) -10	
Bit Size (BS) 4 (IN) 14		PEF (PEF) 0 (----) 10	
Caliper (CALI) 4 (IN) 14		DRHO (DRHO) -0.5 (G/C3) 0.5	
Gamma Ray (GR) 0 (GAPI) 150		TNPH (TNPH) 30 (%) -10	
GR Temp (WTEP) (DEGF)			

**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.	6.366 in
DHC	Density Hole Correction	CALIPER
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
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		
BHS	Borehole Status	OPEN
MATR	Rock Matrix for Neutron Porosity Corrections	LIME
System and Miscellaneous		
BS	Bit Size	6.125 in
BSAL	Borehole Salinity	6000.0 ppm
CSIZ	Current Casing Size	7.000 in

Format: TB\_5INCH\_NUCLEAR Vertical Scale: 5" per 100' Graphics File Created: 06-Apr-2014 13:22

**OP System Version: 19C2-270**

TBT SRPC-5292-ThruBit\_RevA

**Input DLIS Files**

DEFAULT ThruBit\_016PUP FN:15 PRODUCER 06-Apr-2014 13:12 9117.0 FT 2744.5 FT

# MAXIS Field Log

## ThruBit String / Equipment Identification

**Primary Equipment:**

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

TBI - A            24  
 TBD - A           46  
 GGLS - FZ  
 TBN - A           25  
 NNLS - EWA  
 TMG - A           49  
 TBAT -            40  
 TBAT -            7

**Auxiliary Equipment:**

ThruBit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal
	-468.140	-457.000		634.127	300.000
-536.000 <small>(Minimum)</small>	-387.000 <small>(Maximum)</small>		-500.000 <small>(Minimum)</small>	1100.00 <small>(Maximum)</small>	
Freq 1, A2, R	Value	Nominal	Freq 1, A2, X	Value	Nominal
	-136.340	-141.000		530.899	320.000
-162.000 <small>(Minimum)</small>	-120.000 <small>(Maximum)</small>		-75.0000 <small>(Minimum)</small>	700.000 <small>(Maximum)</small>	
Freq 1, A3, R	Value	Nominal	Freq 1, A3, X	Value	Nominal
	-32.8075	-28.0000		-45.0742	50.0000
-38.0000 <small>(Minimum)</small>	-18.0000 <small>(Maximum)</small>		-375.000 <small>(Minimum)</small>	475.000 <small>(Maximum)</small>	
Freq 1, A4, R	Value	Nominal	Freq 1, A4, X	Value	Nominal
	-17.2086	-16.0000		246.795	300.000
-24.0000 <small>(Minimum)</small>	-8.00000 <small>(Maximum)</small>		25.0000 <small>(Minimum)</small>	575.000 <small>(Maximum)</small>	
Freq 1, A5, R	Value	Nominal	Freq 1, A5, X	Value	Nominal
	-13.9751	-14.0000		110.726	150.000
-21.0000 <small>(Minimum)</small>	-7.00000 <small>(Maximum)</small>		25.0000 <small>(Minimum)</small>	275.000 <small>(Maximum)</small>	
Freq 2, A1, R	Value	Nominal	Freq 2, A1, X	Value	Nominal
	-246.744	-237.000		391.978	150.000
-293.000 <small>(Minimum)</small>	-186.000 <small>(Maximum)</small>		-375.000 <small>(Minimum)</small>	675.000 <small>(Maximum)</small>	
Freq 2, A2, R	Value	Nominal	Freq 2, A2, X	Value	Nominal
	-87.9339	-92.0000		322.410	160.000
-106.000 <small>(Minimum)</small>	-76.0000 <small>(Maximum)</small>		-100.000 <small>(Minimum)</small>	425.000 <small>(Maximum)</small>	
Freq 2, A3, R	Value	Nominal	Freq 2, A3, X	Value	Nominal
	-23.8202	-21.0000		-80.8434	-20.0000
-28.0000 <small>(Minimum)</small>	-13.0000 <small>(Maximum)</small>		-325.000 <small>(Minimum)</small>	250.000 <small>(Maximum)</small>	
Freq 2, A4, R	Value	Nominal	Freq 2, A4, X	Value	Nominal
	-19.7745	-20.0000		77.2206	100.000
-28.0000 <small>(Minimum)</small>	-10.0000 <small>(Maximum)</small>		-75.0000 <small>(Minimum)</small>	275.000 <small>(Maximum)</small>	
Freq 2, A5, R	Value	Nominal	Freq 2, A5, X	Value	Nominal
	-18.6890	-20.0000		-20.0999	-25.0000
-27.0000 <small>(Minimum)</small>	-10.0000 <small>(Maximum)</small>		-125.000 <small>(Minimum)</small>	75.0000 <small>(Maximum)</small>	
Freq 3, A1, R	Value	Nominal	Freq 3, A1, X	Value	Nominal

-193.000 (Minimum)	(Nominal)	-156.701	-149.000	-375.000 (Minimum)	(Nominal)	425.000 (Maximum)	221.891	25.0000
Freq 3, A2, R		Value	Nominal	Freq 3, A2, X		Value	Nominal	
		-67.2042	-70.0000			199.170	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	
		-19.2283	-17.0000			-116.979	-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	
		-21.2640	-22.0000			-34.9081	-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	
		-21.0492	-22.0000			-116.377	-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	
		-85.6738	-80.0000			-8.32188	-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	
		-48.5418	-50.0000			47.6140	-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	
		-14.5641	-14.0000			-185.324	-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	
		-23.3880	-25.0000			-201.615	-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	
		-25.7837	-28.0000			-280.031	-300.000	
-43.0000 (Minimum)	(Nominal)	-12.0000 (Maximum)		-475.000 (Minimum)	(Nominal)	-125.000 (Maximum)		

Master: 25-Feb-2014 10:50

ThruBit String Master Calibration							
TBI Master Calibration COMPLEX GAINS							
Freq 1, R		Value	Nominal	Freq 1, X		Value	Nominal
		0.9980	1.000			-0.003990	0
		0.9969	1.000			0.002182	0
		0.9942	1.000			-0.005518	0
		0.9889	1.000			0.005109	0
		1.003	1.000			0.0009077	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
		0.9932	1.000			-0.01278	0
		0.9911	1.000			-0.007543	0
		0.9827	1.000			-0.007843	0
		0.9846	1.000			-0.004849	0
		0.9992	1.000			-0.01023	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
		1.005	1.000			0.002106	0

		1.003	1.000			-0.002196	0
		0.9940	1.000			0.001586	0
		0.9953	1.000			0.004697	0
		1.013	1.000			-0.0009248	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
		1.004	1.000			-0.002239	0
		1.001	1.000			0.001124	0
		0.9944	1.000			-0.001514	0
		0.9957	1.000			0.003619	0
		1.024	1.000			-0.006227	0
0.9300 (Minimum)	(Nominal)	1.070 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Master: 25-Feb-2014 10:50							

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
	1861.5	1949.8		2027.4	2096.7		2191.4	2285.7
1799.8 (Minimum)	2099.8 (Maximum)		1946.7 (Minimum)	2246.7 (Maximum)		2135.7 (Minimum)	2435.7 (Maximum)	
Master: 3-Apr-2014 12:42								

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
	137.04	150.00		132.58	150.00
130.00 (Minimum)	170.00 (Maximum)		130.00 (Minimum)	170.00 (Maximum)	
LS4 Background CPS	Value	Nominal	SS1 Aluminium CPS	Value	Nominal
	27.81	31.00		5032.87	4900.00
27.00 (Minimum)	35.00 (Maximum)		4500.00 (Minimum)	5500.00 (Maximum)	
LS1 Aluminium CPS	Value	Nominal	SS1 Magnesium CPS	Value	Nominal
	926.76	850.00		8323.40	8000.00
750.00 (Minimum)	950.00 (Maximum)		7000.00 (Minimum)	9000.00 (Maximum)	
LS4 Aluminium CPS	Value	Nominal			
	1052.1	955.00			
843.00 (Minimum)	1068.0 (Maximum)				
LS1 Al + Sleeve CPS	Value	Nominal			
	EXCEEDS LIMIT	828.99			
650.00 (Minimum)	800.00 (Maximum)				
LS4 Al + Sleeve CPS	Value	Nominal			
	EXCEEDS LIMIT	517.15			
382.00 (Minimum)	471.00 (Maximum)				
LS1 Magnesium CPS	Value	Nominal			
	6151.78	5750.00			
5250.00 (Minimum)	6250.00 (Maximum)				
SS Slope	Value	Nominal			
	1.645	1.645			

1.520 (Minimum)	(Nominal)	1.770 (Maximum)		
LS Slope		Value	Nominal	
		0.4180	0.4150	
0.3800 (Minimum)	(Nominal)	0.4500 (Maximum)		
Pef K Factor		Value	Nominal	
		4.767	4.840	
3.510 (Minimum)	(Nominal)	6.170 (Maximum)		
Pef B Factor		Value	Nominal	
		-0.6486	-0.5550	
-0.7000 (Minimum)	(Nominal)	-0.4100 (Maximum)		

Master: 3-Apr-2014 12:28

ThruBit String Master Calibration					
Thermal Neutron Master Calibration					
TNF, Background CPS	Value	Nominal	TNN, Background CPS	Value	Nominal
	0	1.0		0.017	1.0
0 (Minimum)	(Nominal)	2.0 (Maximum)	0 (Minimum)	(Nominal)	2.0 (Maximum)
TNF, Tank CPS	Value	Nominal	TNN, Tank CPS	Value	Nominal
	70.84	96.00		2086.8	2860.0
25.00 (Minimum)	(Nominal)	200.0 (Maximum)	750.00 (Minimum)	(Nominal)	5700.0 (Maximum)
TNF, Tank + AI Sleeve CPS	Value	Nominal	TNN, Tank + AI Sleeve CPS	Value	Nominal
	2264.5	3040.0		23713.7	32350.0
727.00 (Minimum)	(Nominal)	6080.0 (Maximum)	8000.00 (Minimum)	(Nominal)	64700.0 (Maximum)
Tank + AI Sleeve Ratio	Value	Nominal	Tank + AI Sleeve Porosity PU	Value	Nominal
	11.004	10.797		14.46	14.40
10.300 (Minimum)	(Nominal)	11.300 (Maximum)	13.40 (Minimum)	(Nominal)	15.40 (Maximum)
Tank, Ratio	Value	Nominal	Tank, Temperature DEGF	Value	Nominal
	29.459	30.958		56.8	70.0
28.000 (Minimum)	(Nominal)	34.000 (Maximum)	20.0 (Minimum)	(Nominal)	120 (Maximum)

Master: 26-Mar-2014 13:58

ThruBit String Master Calibration					
TMG Accelerometer Calibration					
Minimum Ax, m/s2	Value	Nominal	Maximum Ax, m/s2	Value	Nominal
	N/A	-9.810		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
	N/A	-9.810		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
	N/A	0		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	Value	Nominal
	32.71	30.00		164.1	170.8
0 (Minimum)	(Nominal)	120.0 (Maximum)	136.6 (Minimum)	(Nominal)	205.0 (Maximum)

Company: **SANDRIDGE ENERGY INC**

Well: **MYRA 3406 4-8H**

Field: **EASTHAM**

County: **HARPER**

State: **KANSAS**



SPECTRAL DENSITY / DUAL SPACED NEUTRON  
GAMMA RAY  
MEMORY LOG