

Schlumberger

Company: **SANDRIDGE ENERGY**

Well: **BARBARA 3404 1-4H**

Field: **BLUFF**

County: **SUMNER**

State: **KANSAS**

Well: BARBARA 3404 1-4H
Field: BLUFF
County: SUMNER
State: KANSAS

Field: **BLUFF**
County: **SUMNER** State: **KANSAS**

County: **SUMNER** State: **KANSAS**

[illegible]

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: TBI-TBD-TBN-TMG

OS2:

OS3:

OS4:

OS5:

RFMA

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

RFMA

REMARKS: RUN NUMBER 1

SERVICE:HORIZONTAL PUM

ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST

LIMESTONE MATRIX 2.71 g/cc USED FOR POROSITY MEASUREMENTS

TOOLSTRING RAN WITH SWIVEL AND SMALL DE-CENTRALIZE

TBHV REPRESENTS TOTAL BOREHOLE VOLUME, ft3

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

HSPM USED TO ACQUIRE LOG DEPTH

LOG CORRELATED TO MWD GR

RIG:HWD 8

CREW: C.PARKER R.CRESSWELL I.HERNDEZ

RUN 1

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

2897
19C2-270
0 ft

LOGGED INTERVAL

START

STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL

START

STOP

EQUIPMENT	DESCRIPTION
1	...
2	...
3	...
4	...
5	...
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7	...
8	...
9	...
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97	...
98	...
99	...
100	...

RUN 1

RUN 2

SURFACE EQUIPMENT

WITM (ThruBit)

DOWNHOLE EQUIPMENT

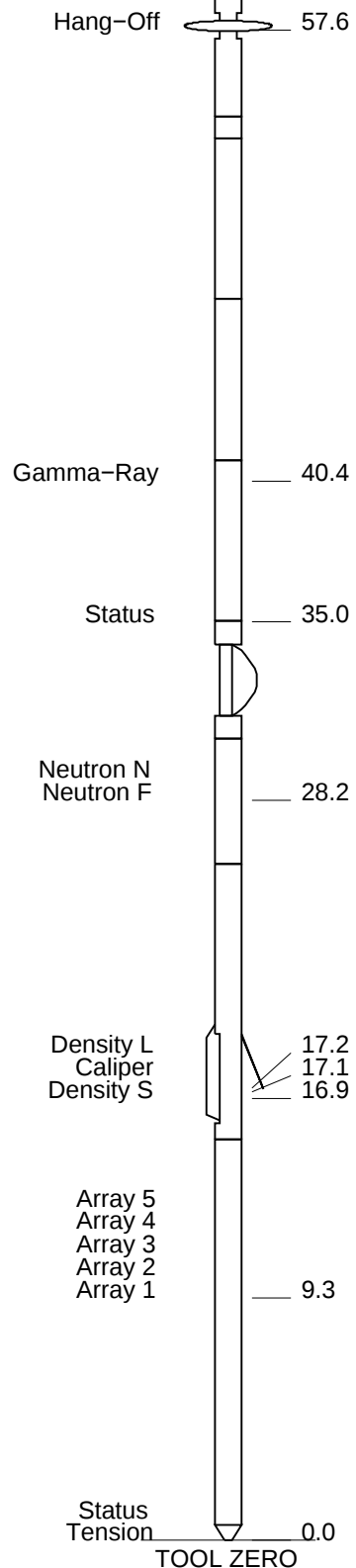
TBT-A
THEAD
CCL
BDOT-B 14
THOT 29
T10 1
TBAT1 13
TBAT2 35

CCL

64.2

67.1

TMG-A 27
TILE-A
TBN-A 27
NNLS-EWA 4484
TBD-A 43
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: BARBARA 3404 1-4H

Input DLIS Files				
ThruBit_006PUP	FN:5	28-May-2014 22:03	8695.2 FT	2398.0 FT

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

Relative Bearing (RB)		
0	(DEG)	940

gr wrap4
From LHT1 to GR4

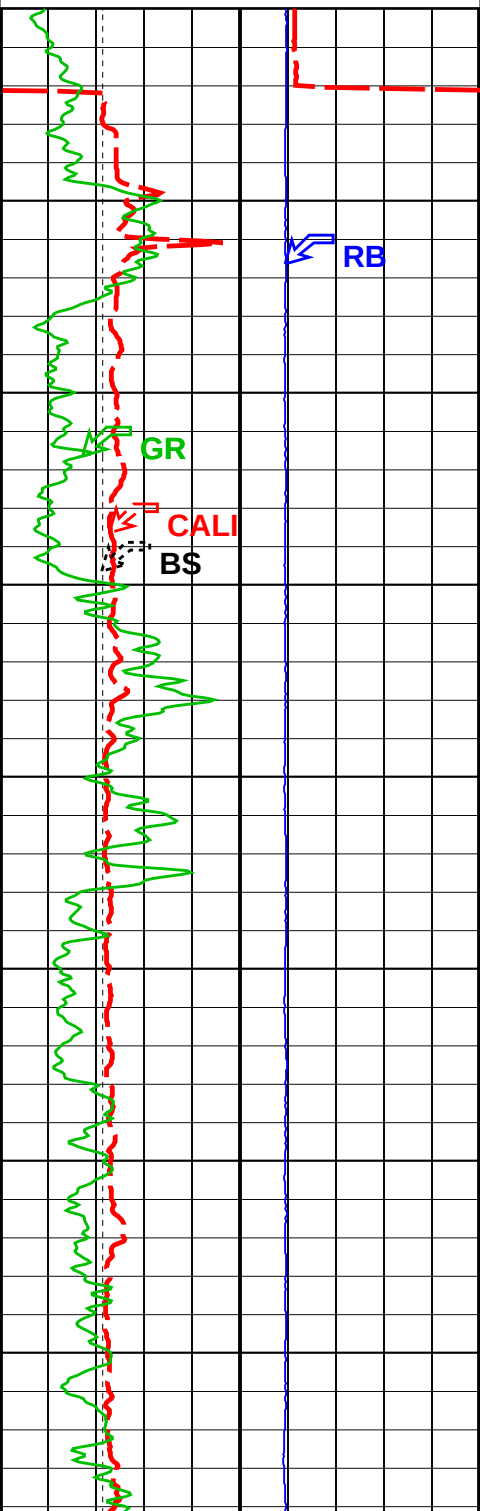
gr wrap3
From LHT1 to GR3

gr wrap2
From LHT1 to GR2

gr wrap1
From LHT1 to GR1

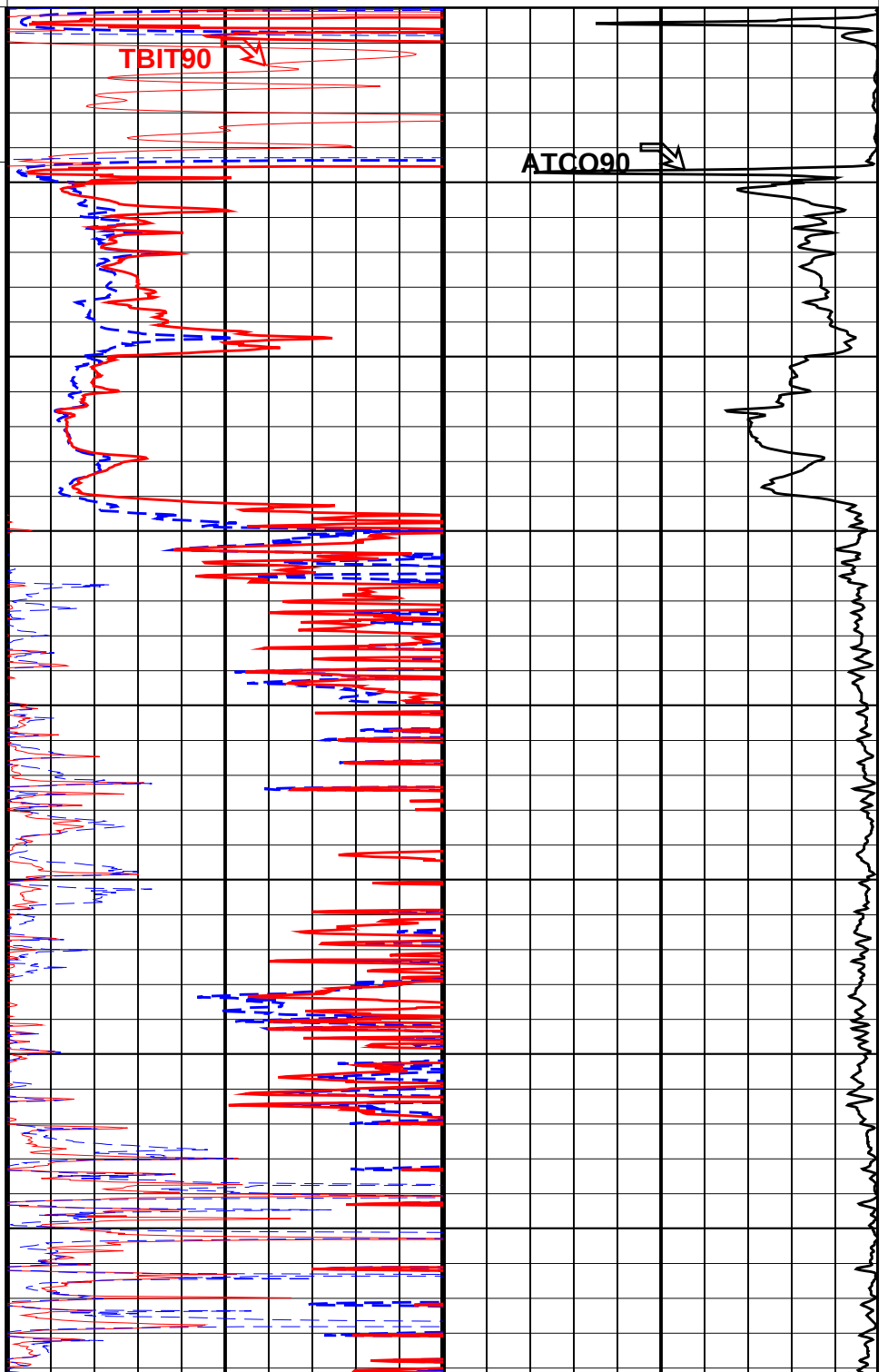
Caliper (CALI)

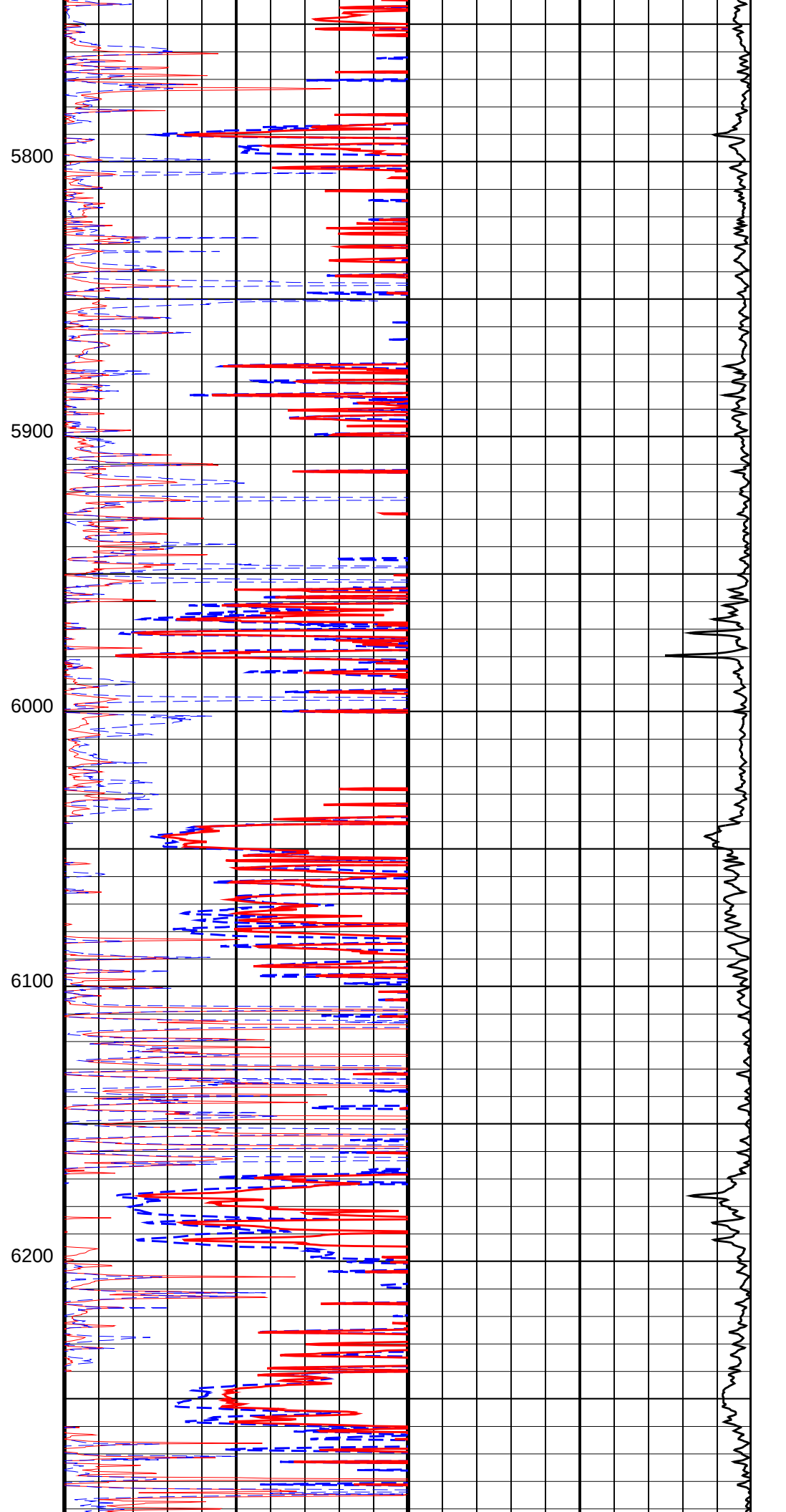
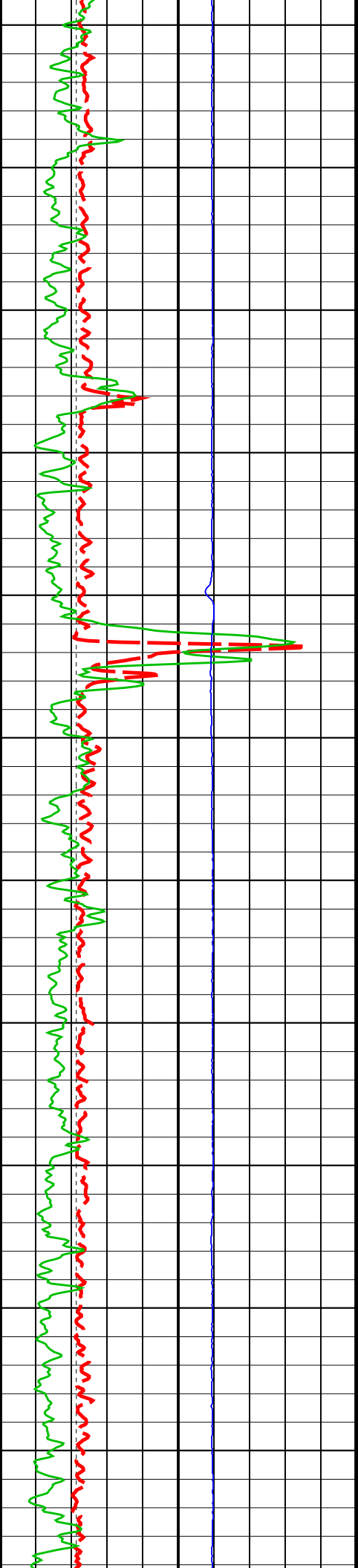
Caliper (CALI)		
4	(IN)	14
Gamma Ray 4 (GR)		
600	(GAPI)	750
Gamma Ray 3 (GR)		
450	(GAPI)	600
Gamma Ray 2 (GR)		
300	(GAPI)	450
Gamma Ray 1 (GR)		
150	(GAPI)	300
Gamma Ray (GR)		
0	(GAPI)	150
Bit Size (BS)		
4	(IN)	14

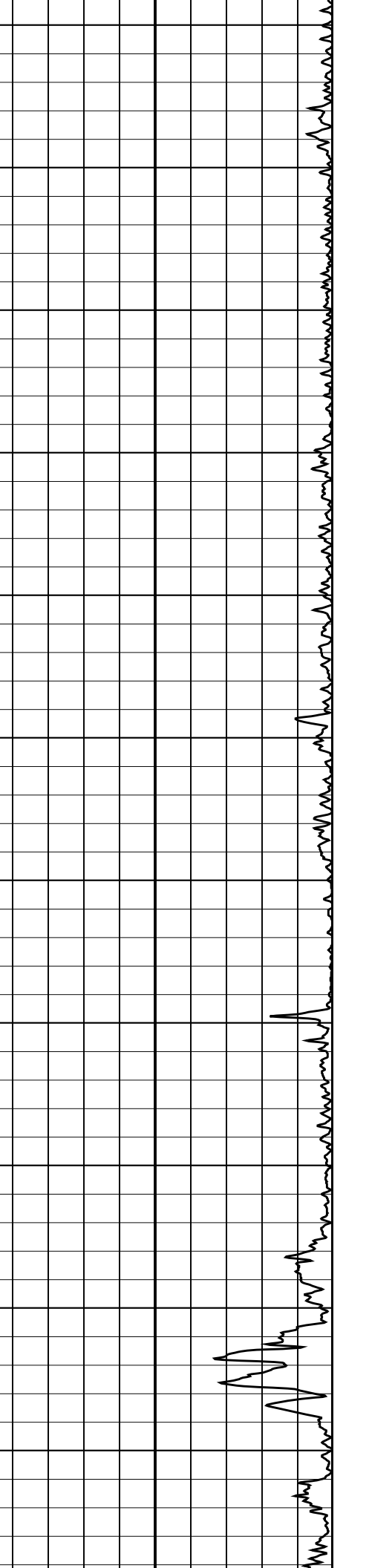
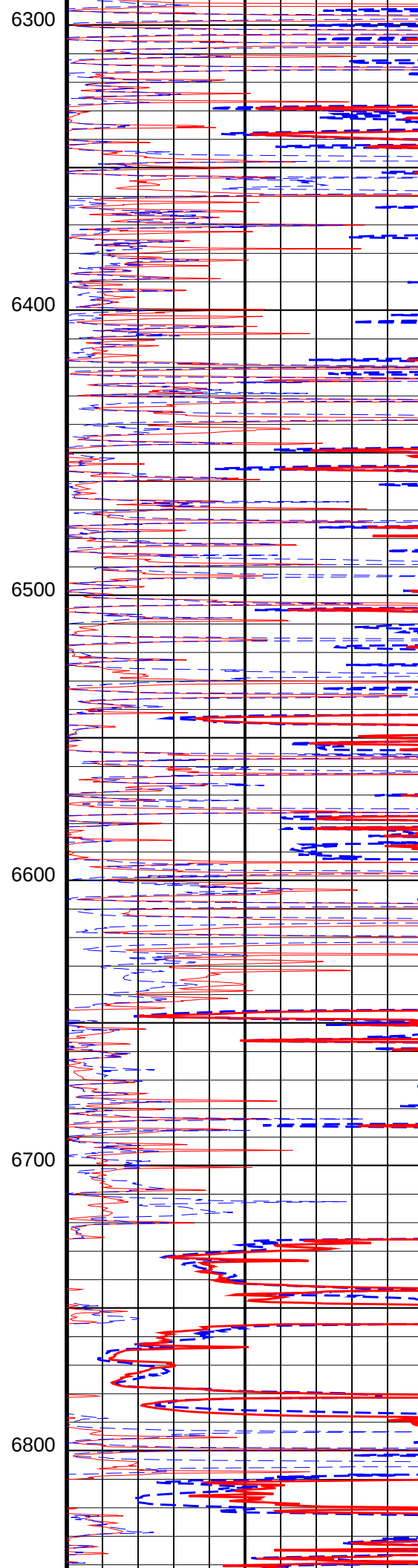
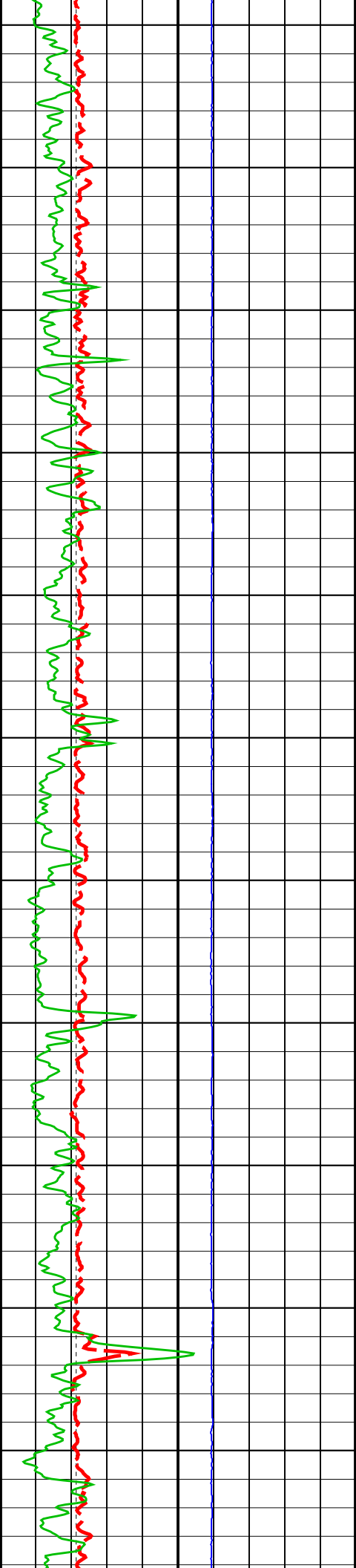


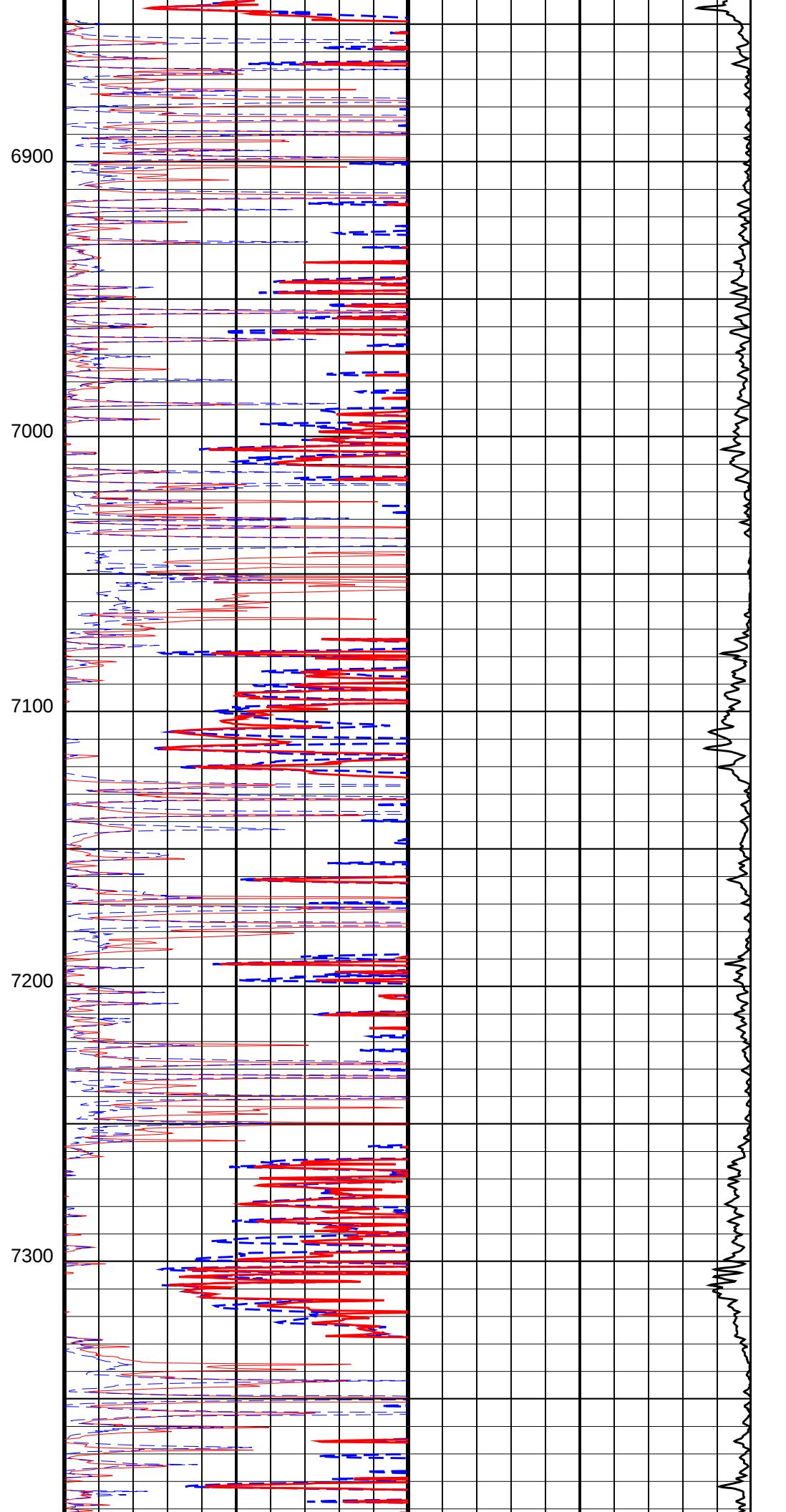
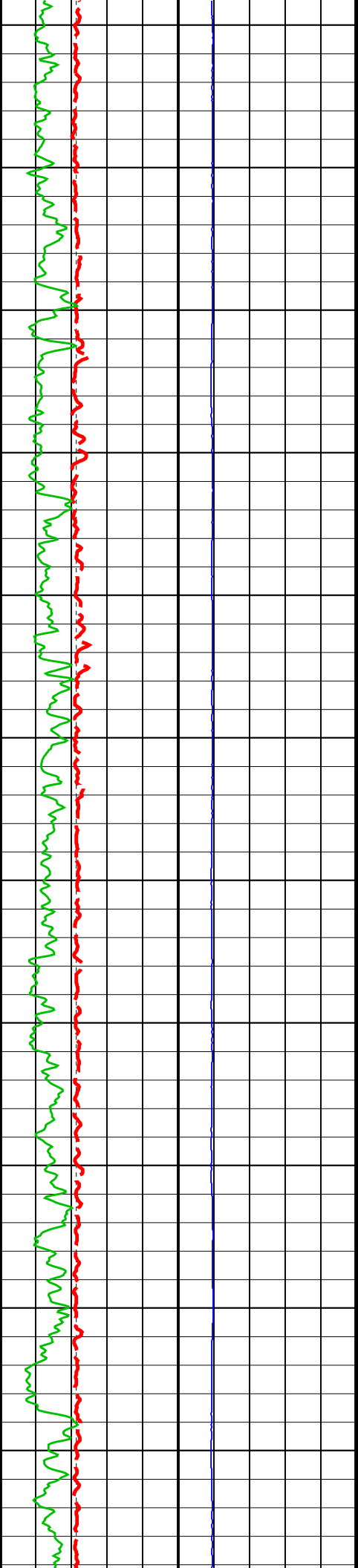
TBI 20 Inch Investigation (TBIT20)		
50	(OHMM)	500
TBI 90 Inch Investigation (TBIT90)		
50	(OHMM)	500
TBI 90 Inch Investigation (TBIT90)		
0	(OHMM)	50
TBI 20 Inch Investigation (TBIT20)		
0	(OHMM)	50

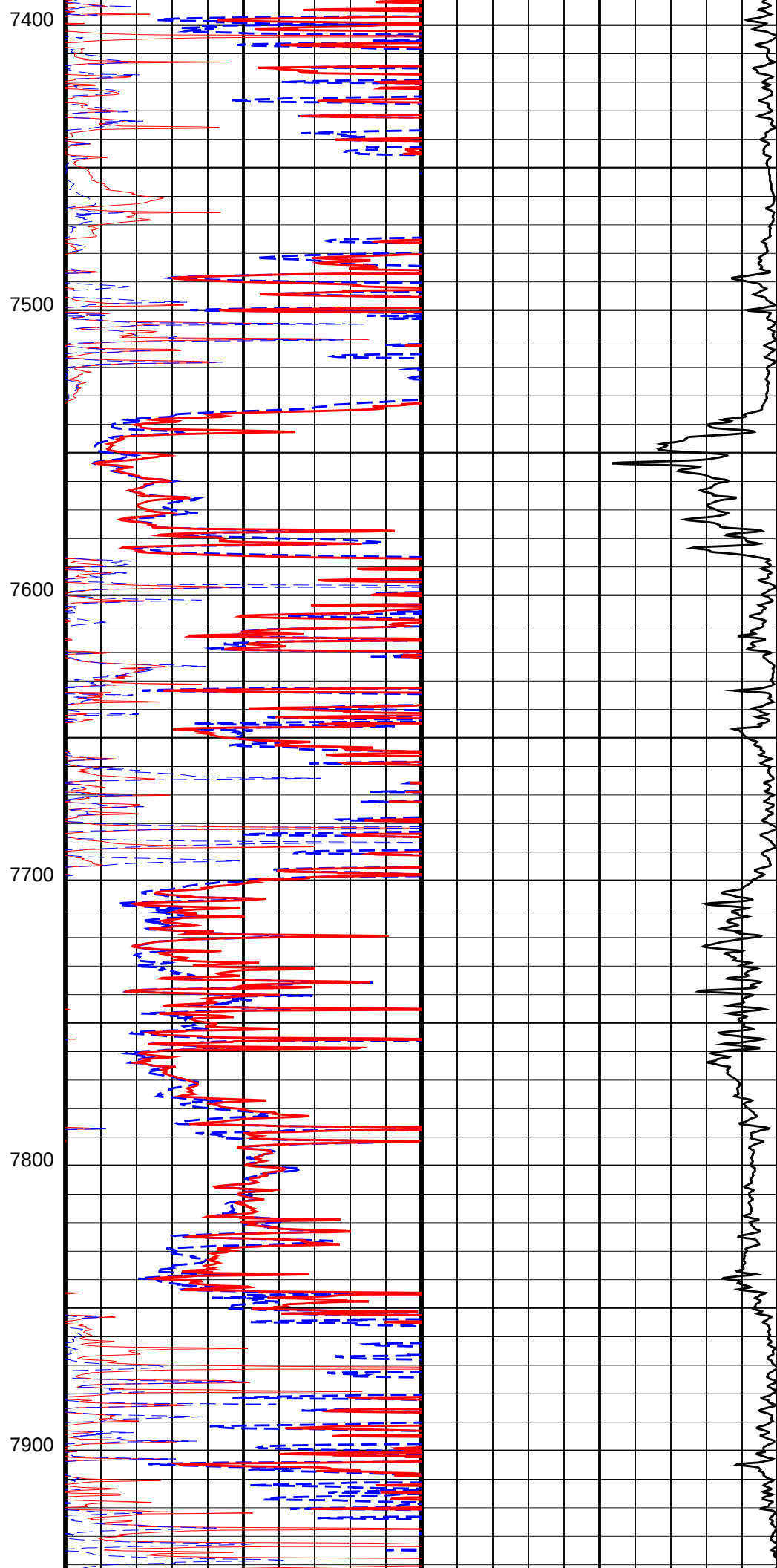
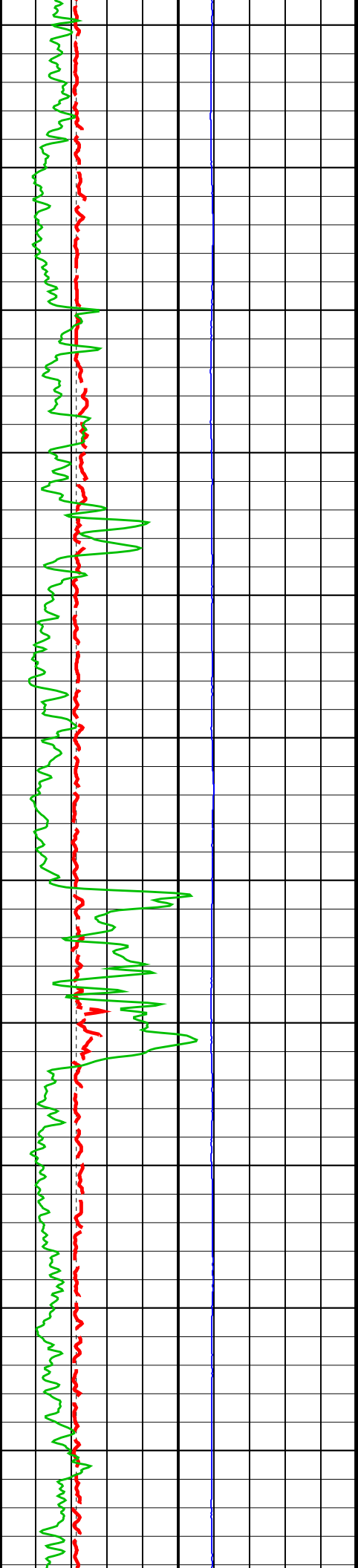
TBI 60 Inch Conductivity (ATCO90)		
1000	(MM/M)	0

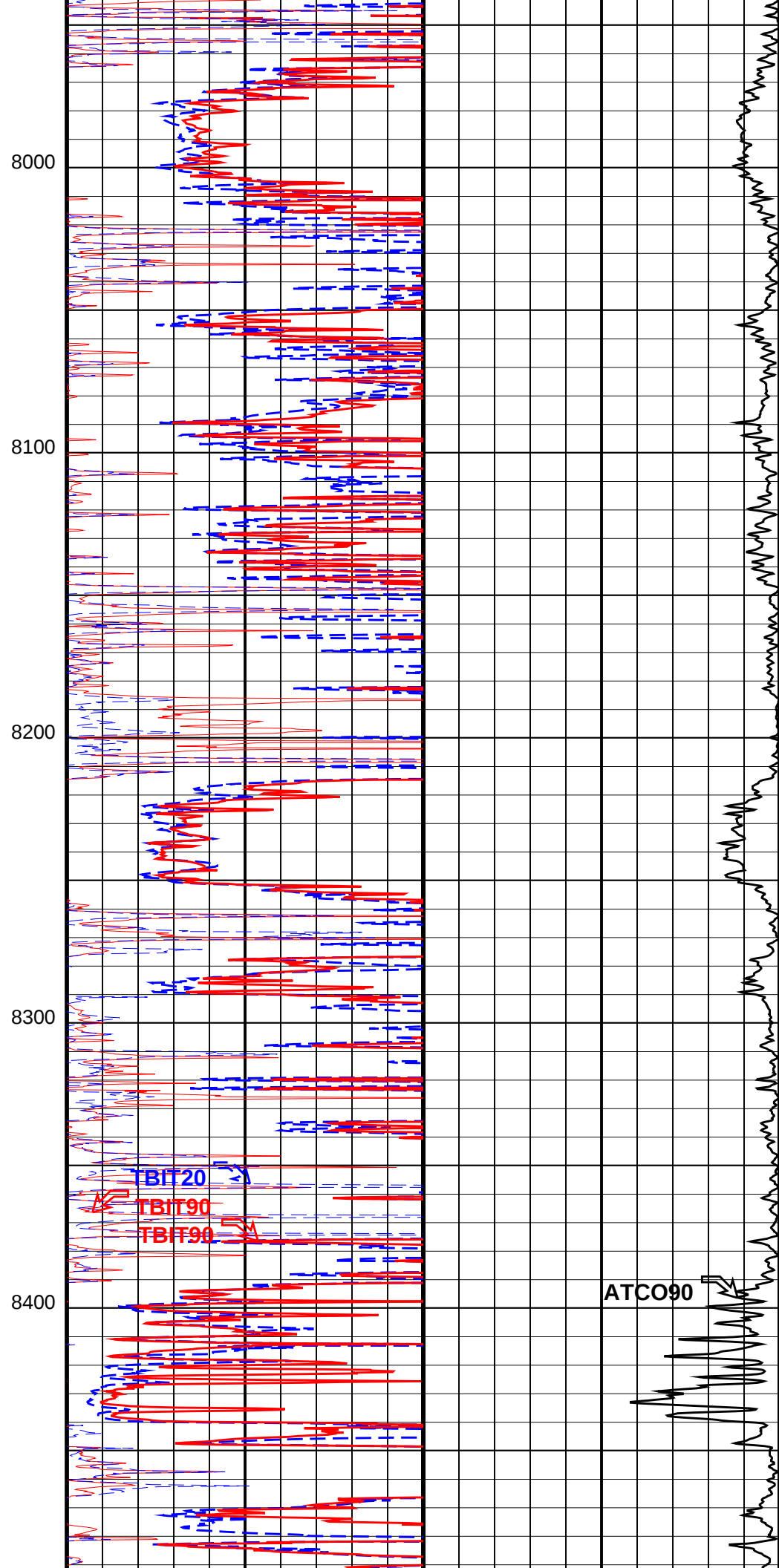
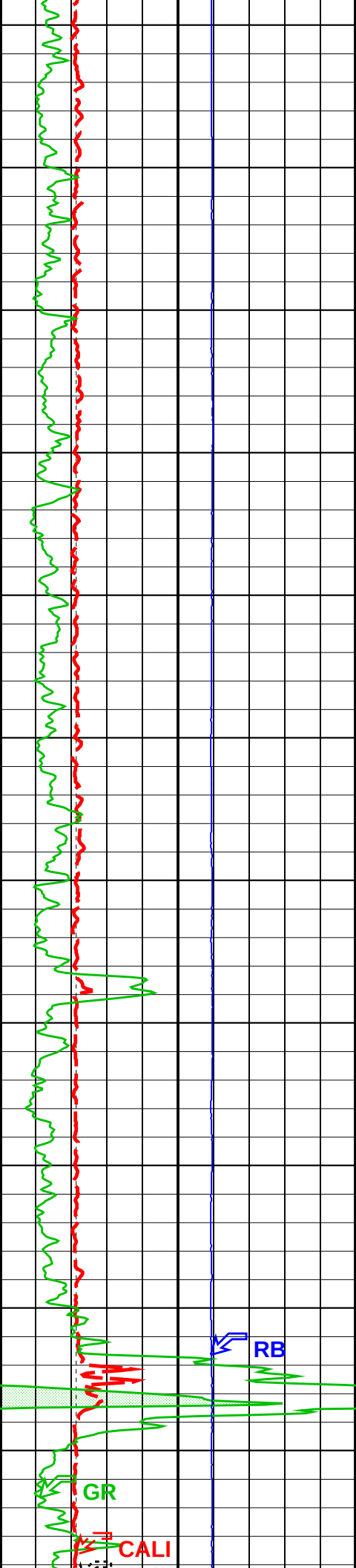


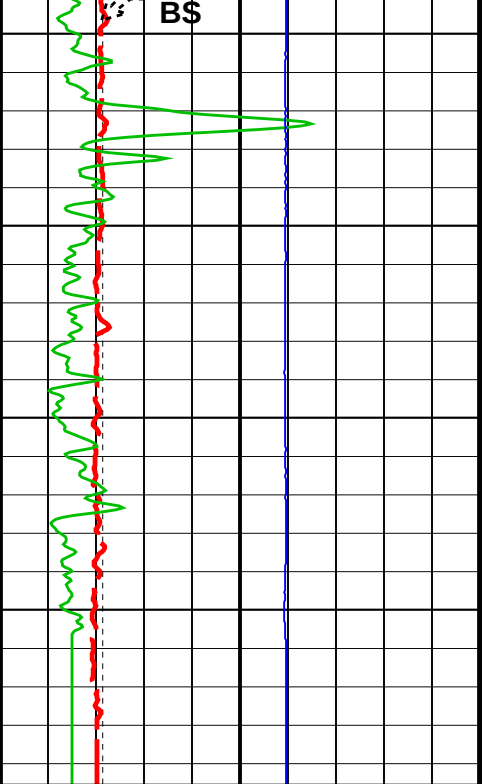












Bit Size (BS)
(IN)

Gamma Ray (GR)
(GAPI)

Gamma Ray 1 (GR)
(GAPI)

Gamma Ray 2 (GR)
(GAPI)

Gamma Ray 3 (GR)
(GAPI)

Gamma Ray 4 (GR)
(GAPI)

Caliper (CALI)
(IN)

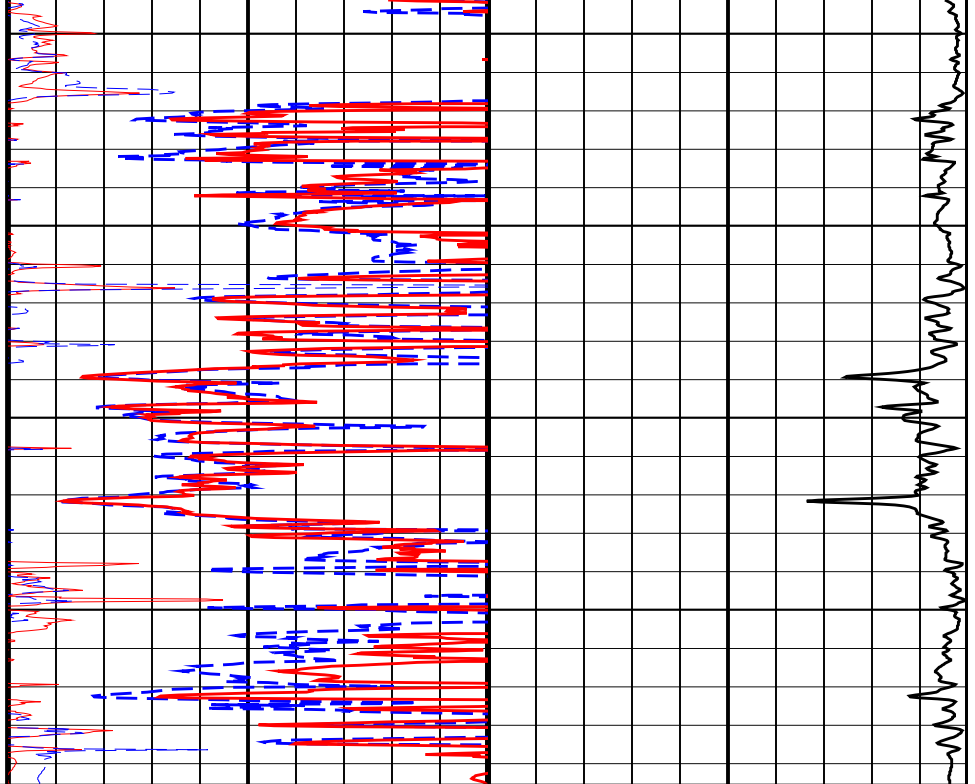
gr wrap1
From LHT1 to GR1

gr wrap2
From LHT1 to GR2

gr wrap3
From LHT1 to GR3

gr wrap4
From LHT1 to GR4

Relative Bearing
(RB)
(DEG)



TBI 60 Inch Conductivity (ATCO90)
(MM/M)

TBI 20 Inch Investigation (TBIT20)
(OHMM)

TBI 90 Inch Investigation (TBIT90)
(OHMM)

TBI 90 Inch Investigation (TBIT90)
(OHMM)

TBI 20 Inch Investigation (TBIT20)
(OHMM)

Parameters		
DLIS Name	Description	Value
TBT-A: ThruBit String		
MT	Mud Type (for TBN and TBI correction)	WBM
PR_OFFSET	Additional PR offset (degrees)	0.000

RB_OFFSET	Additional RB offset (degrees)	0.000	deg
TBI_ALGO	TBI Algorithm Selection	AIT	
TBI_BHC_OP	Borehole Correction Option (for TBI)	CALIPER	
TBI_CALTYP	TBI Mastercal Type	THRUBIT	
TBI_REPL_ARRAY_DEST	TBI: Replace This Array	NONE	
TBI_REPL_ARRAY_SOURCE	TBI: With This Array	NONE	
TBI_TC_OP	Induction Temperature Correction Option	LOWER	
System and Miscellaneous			
BS	Bit Size	6.125	in

Format: TB_2INCH_RESISTIVITY

Vertical Scale: 2" per 100'

Graphics File Created: 28-May-2014 22:09

OP System Version: 19C2-270

TBT SRPC-5298-ThruBit_b

Input DLIS Files				
ThruBit_006PUP	FN:5	28-May-2014 22:03	8695.2 FT	2398.0 FT

Schlumberger

MAIN PASS

MAXIS Field Log

Company: SANDRIDGE ENERGY

Well: BARBARA 3404 1-4H

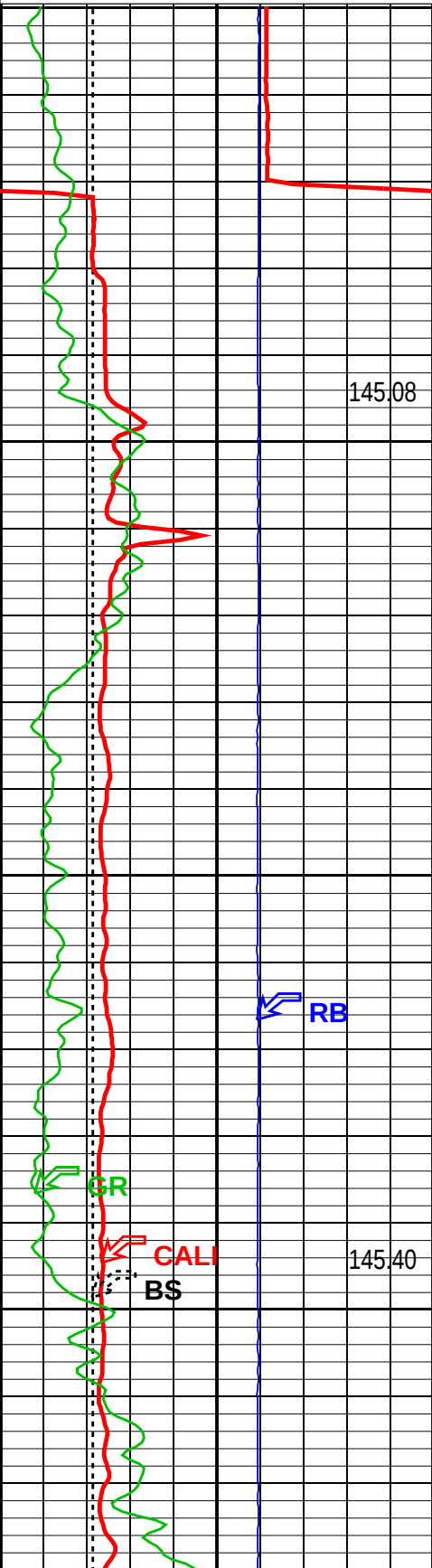
Input DLIS Files				
ThruBit_006PUP	FN:5	28-May-2014 22:03	8695.2 FT	2398.0 FT

OP System Version: 19C2-270

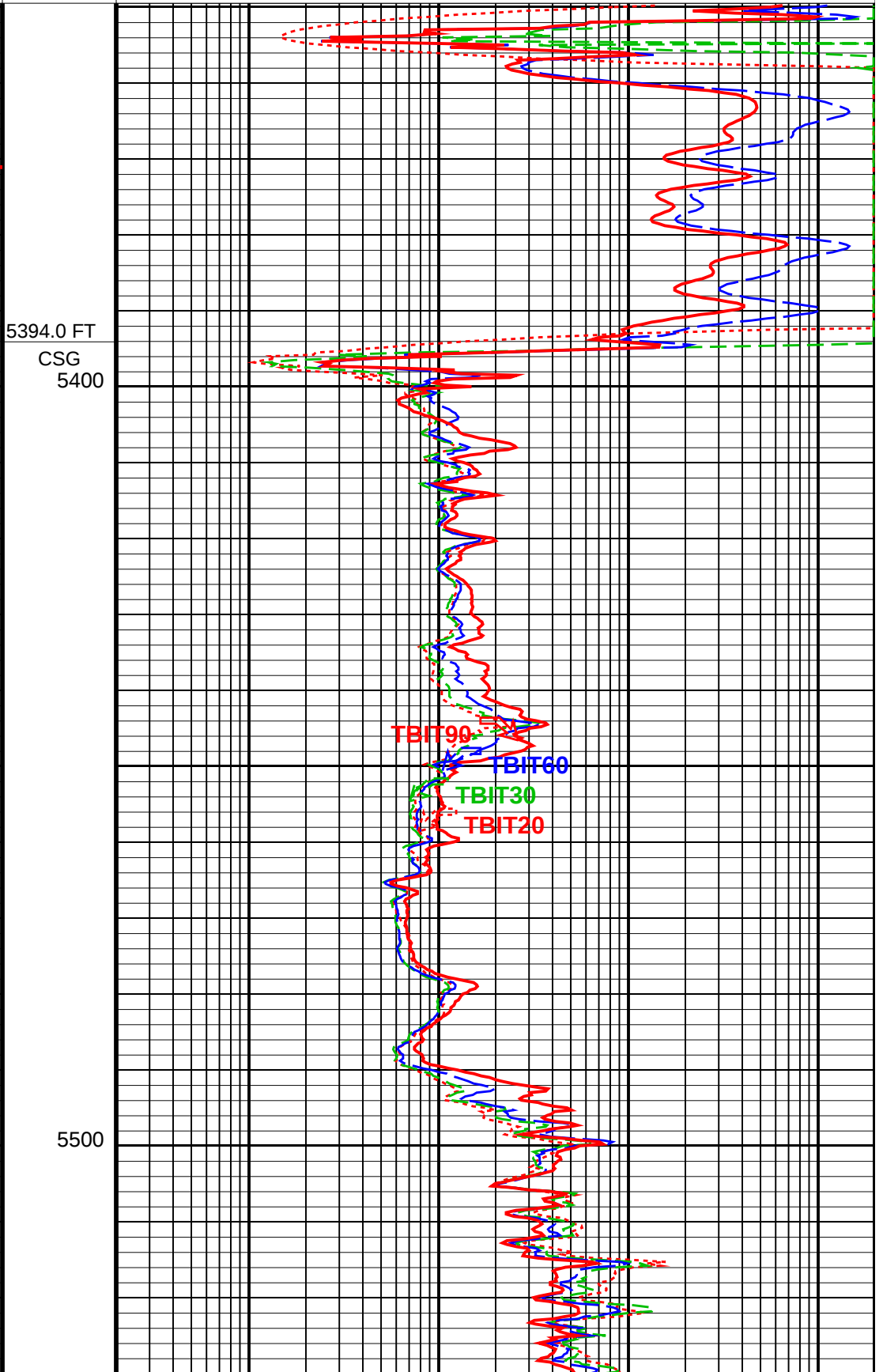
TBT SRPC-5298-ThruBit_b

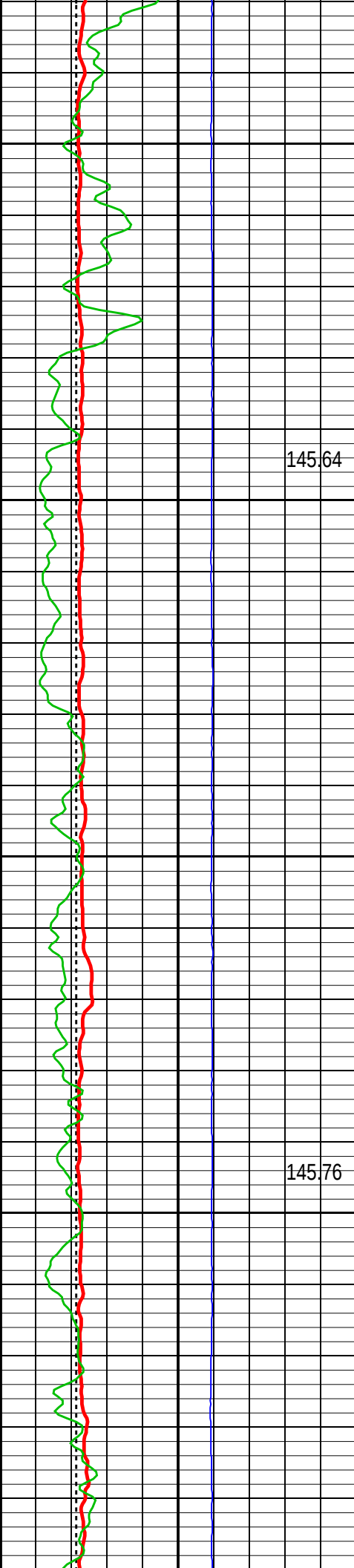
	Relative Bearing (RB)	
0	(DEG)	940
gr wrap4 From LHT1 to GR4		
gr wrap3 From LHT1 to GR3		
gr wrap2 From LHT1 to GR2		
gr wrap1 From LHT1 to GR1		
Caliper (CALI)		
4	(IN)	14
Gamma Ray 4 (GR)		
600	(GAPI)	750
Gamma Ray 3 (GR)		
450	(GAPI)	600
Gamma Ray 2 (GR)		
300	(GAPI)	450

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



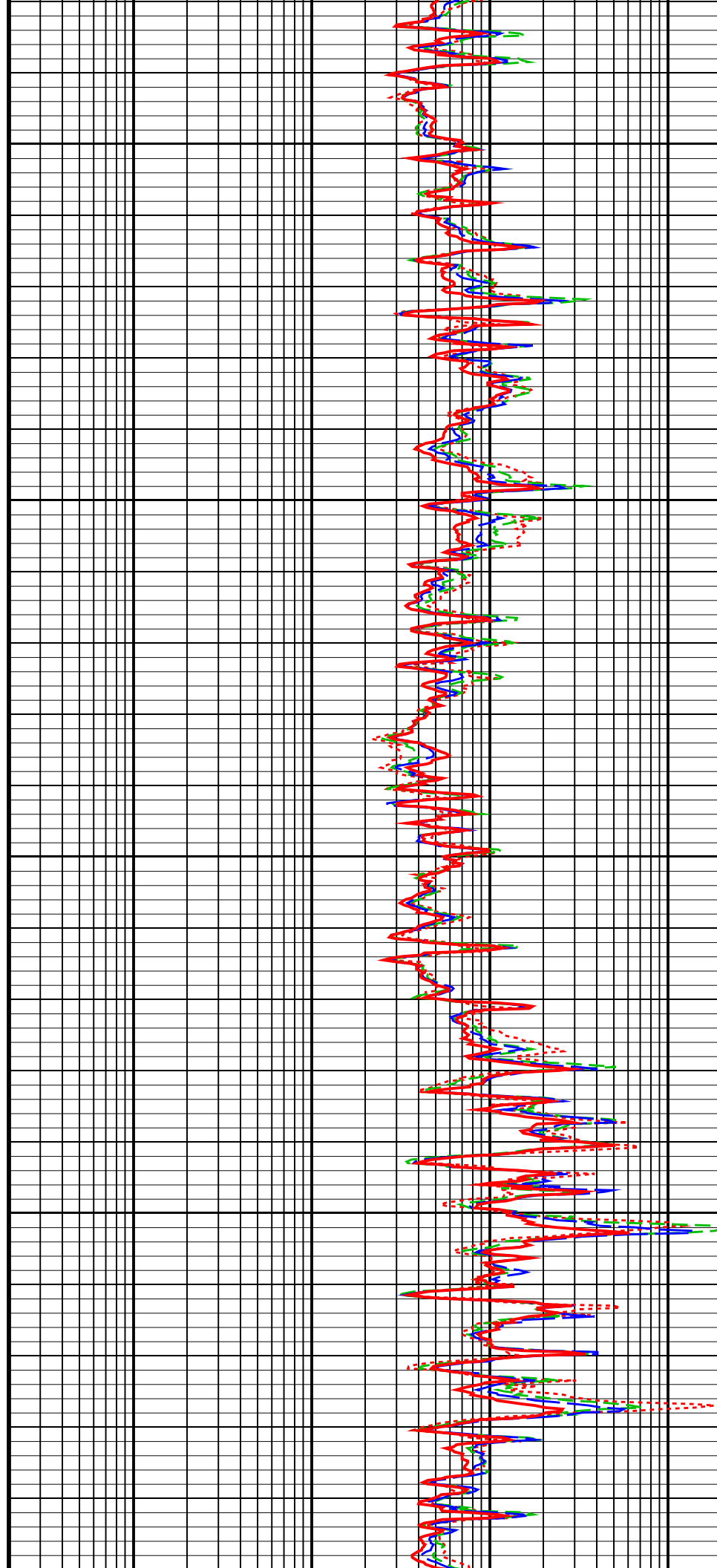
TBI 90 Inch Investigation (TBIT90)		
0.2	(OHMM)	2000
TBI 60 Inch Investigation (TBIT60)		
0.2	(OHMM)	2000
TBI 30 Inch Investigation (TBIT30)		
0.2	(OHMM)	2000
TBI 20 Inch Investigation (TBIT20)		
0.2	(OHMM)	2000

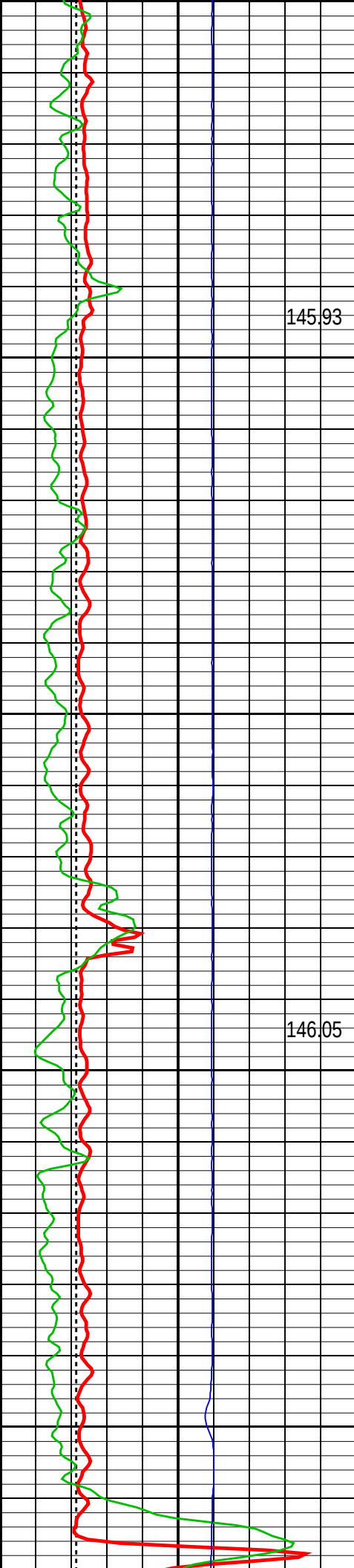




5600

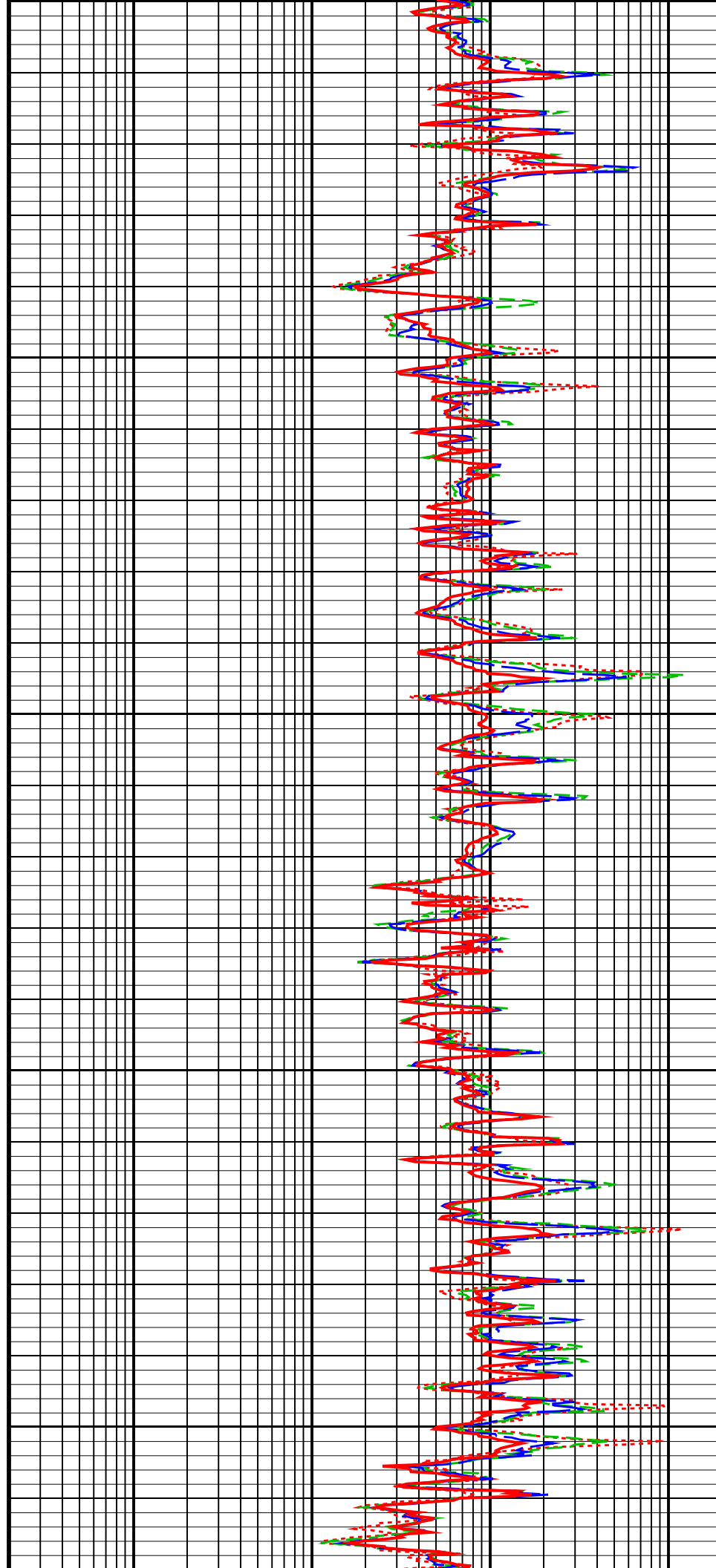
5700

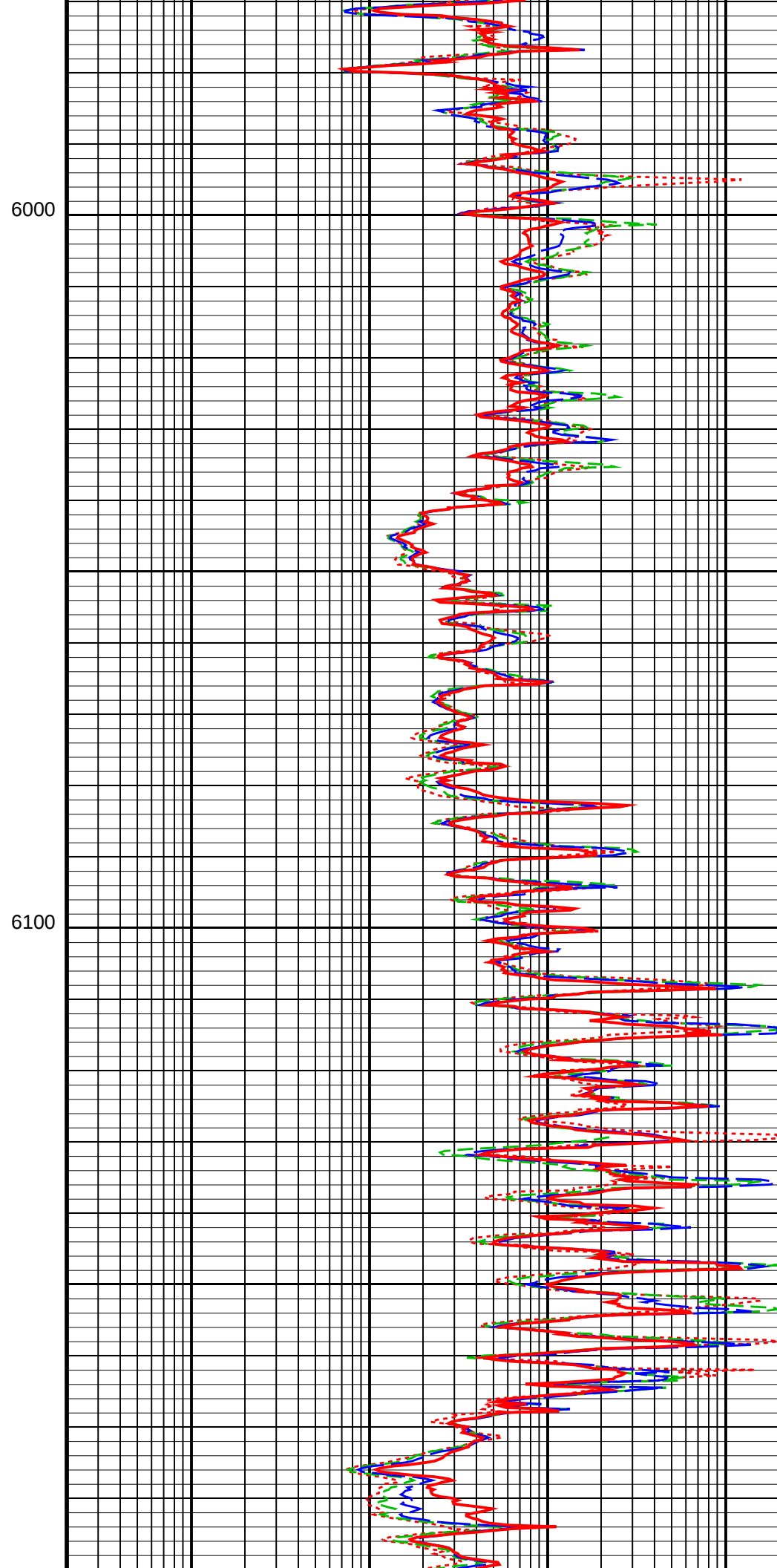
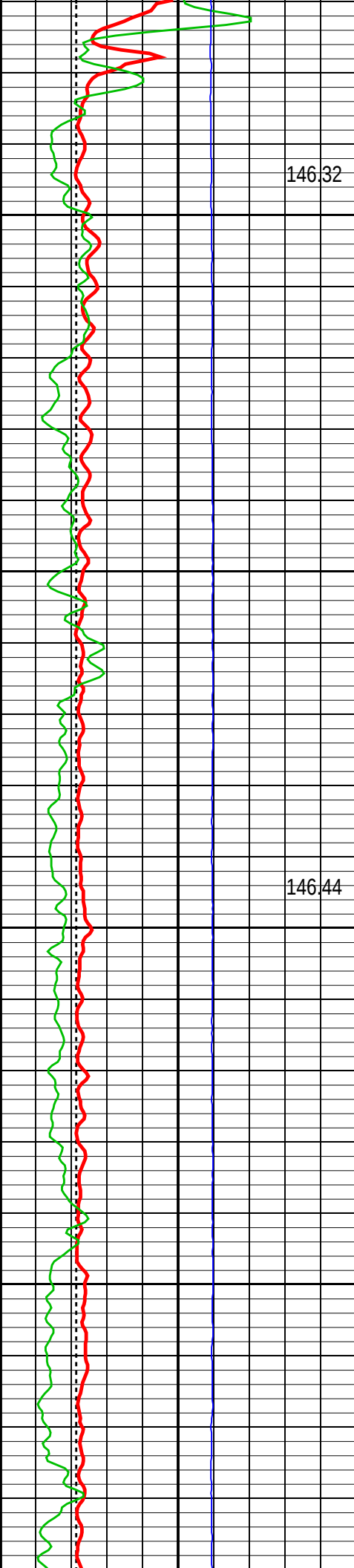


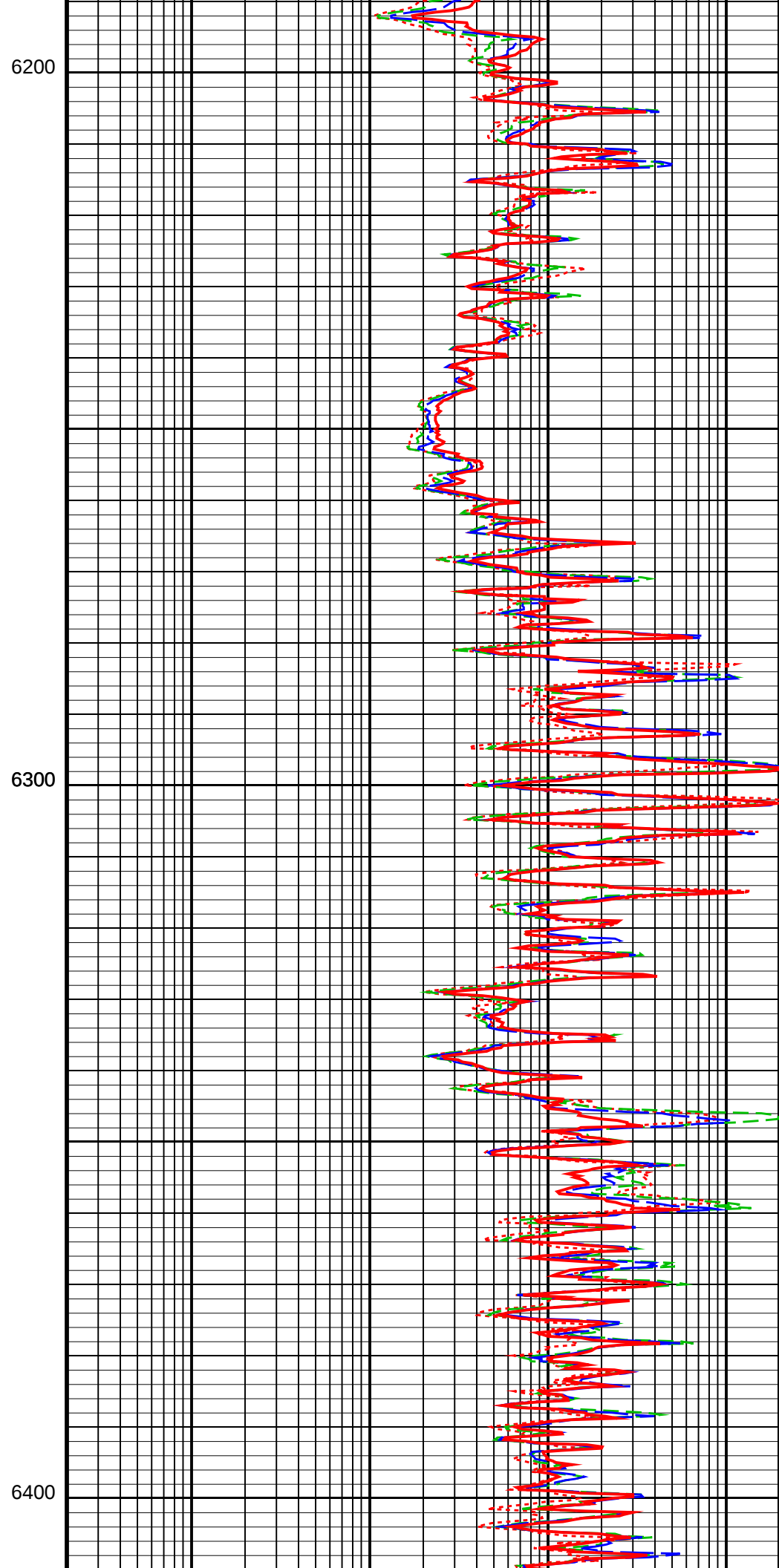
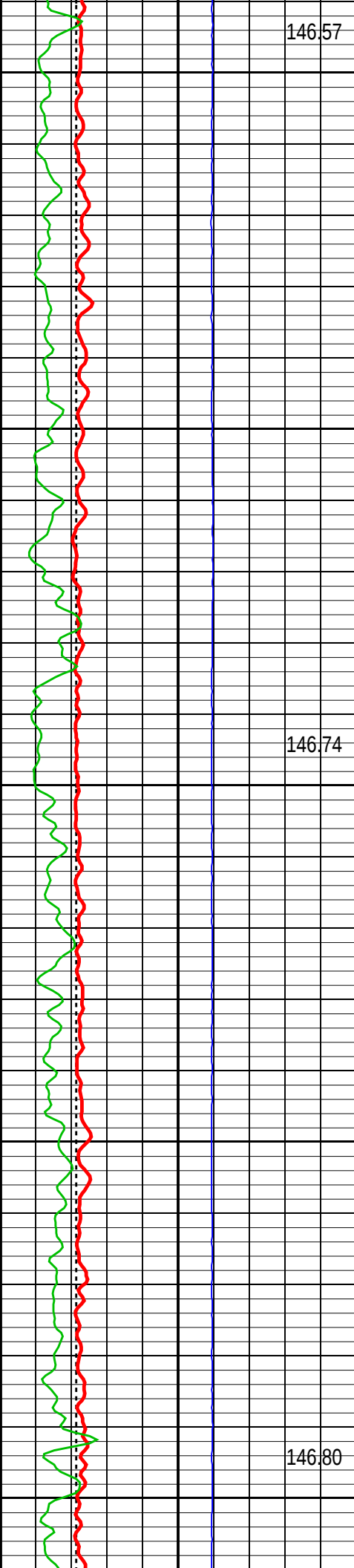


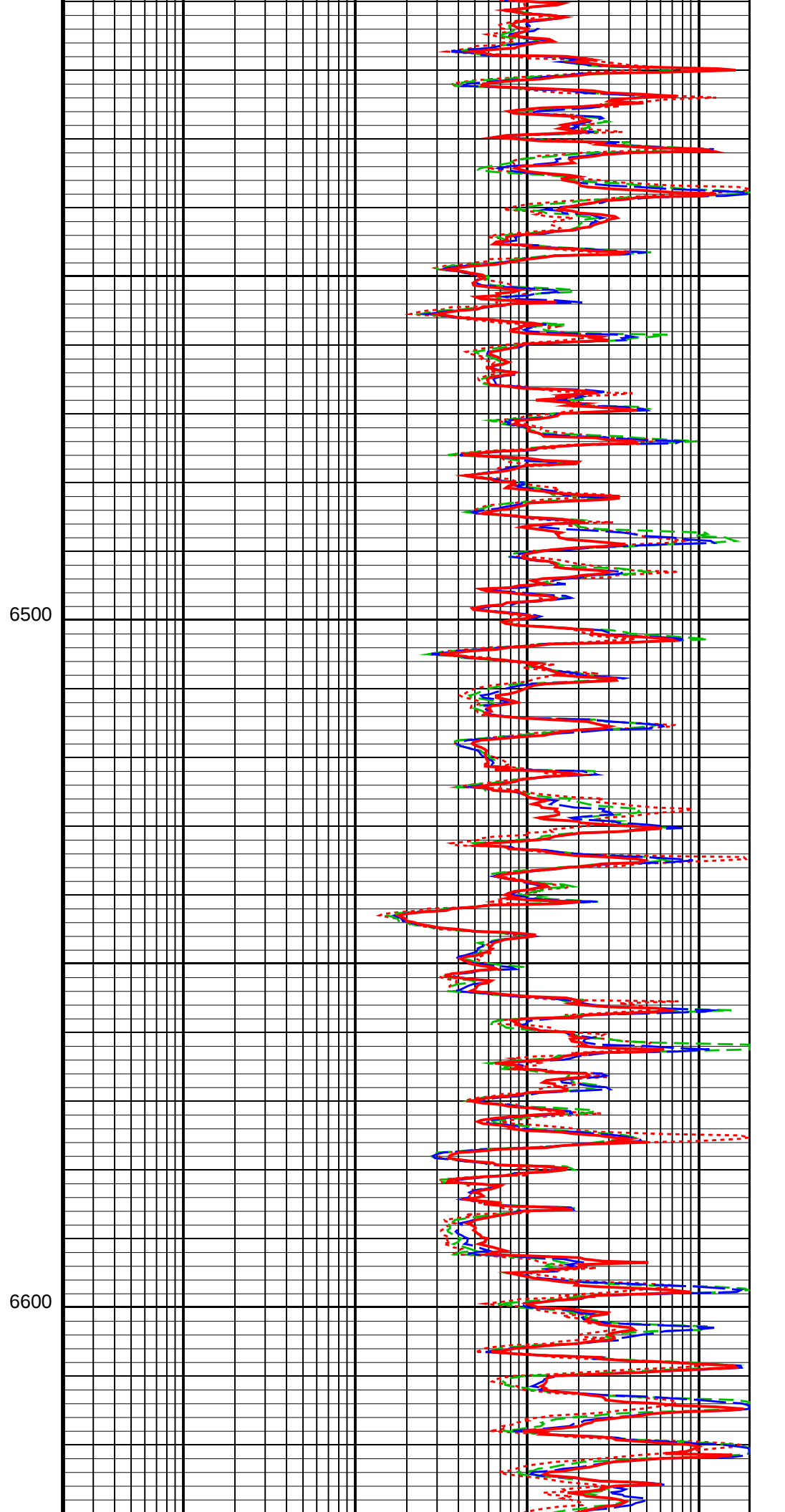
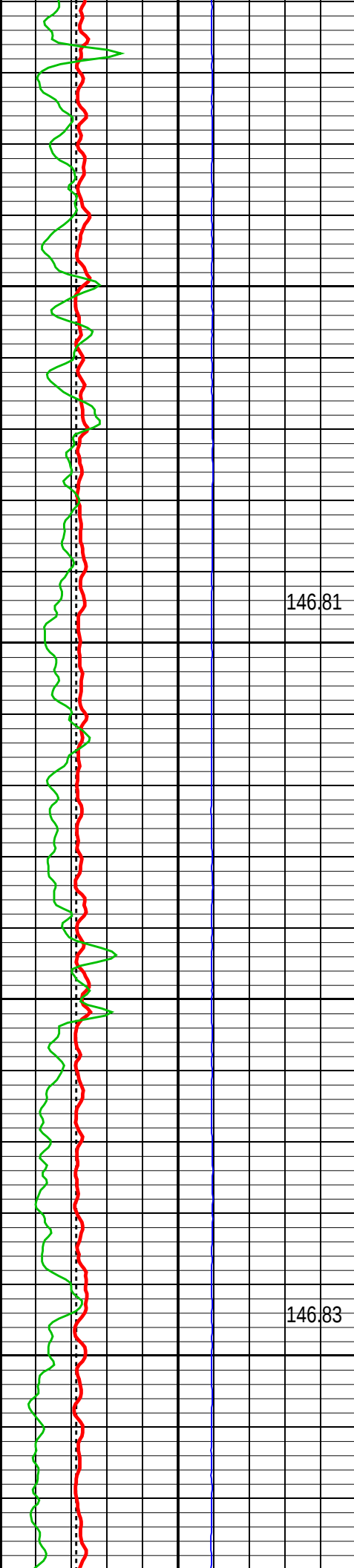
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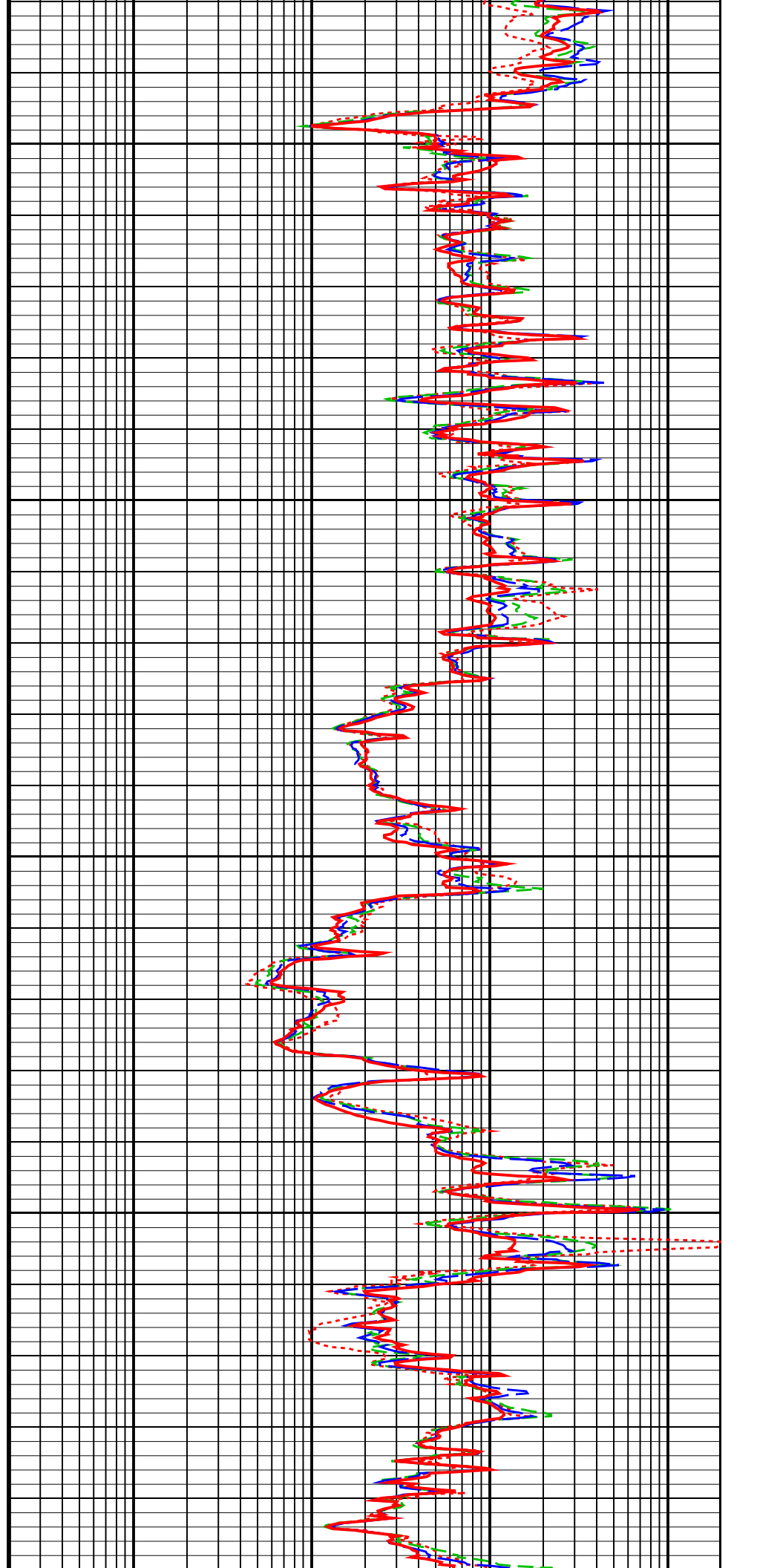
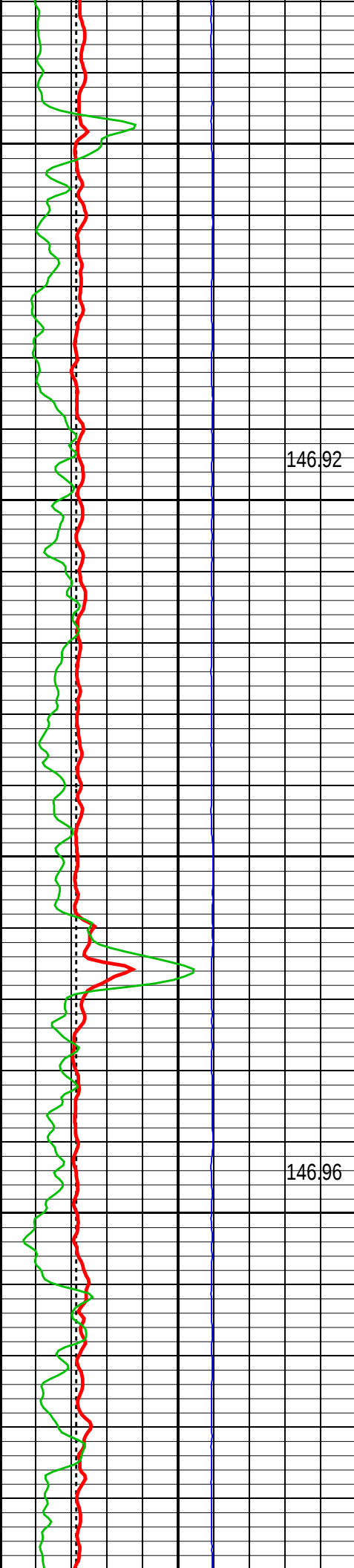
5900

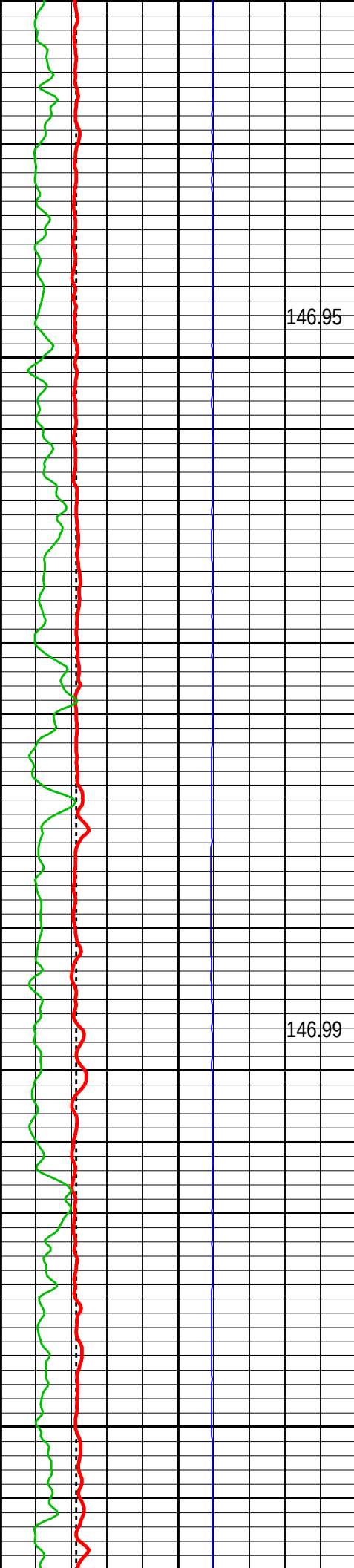






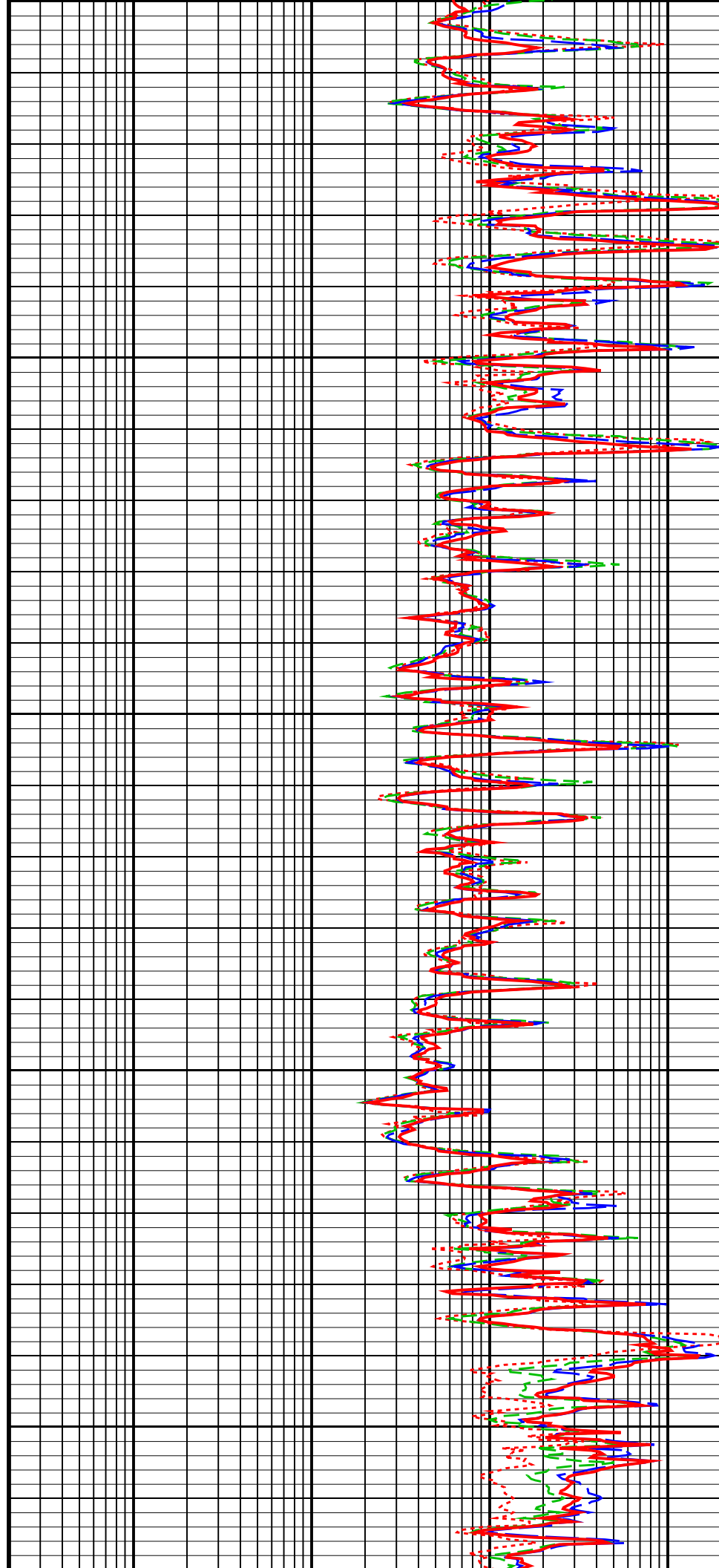


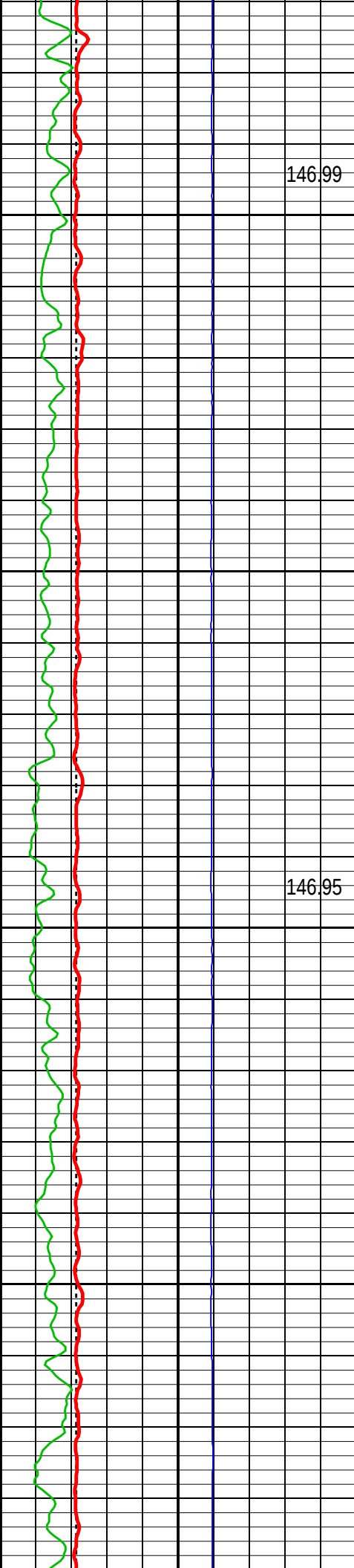




6900

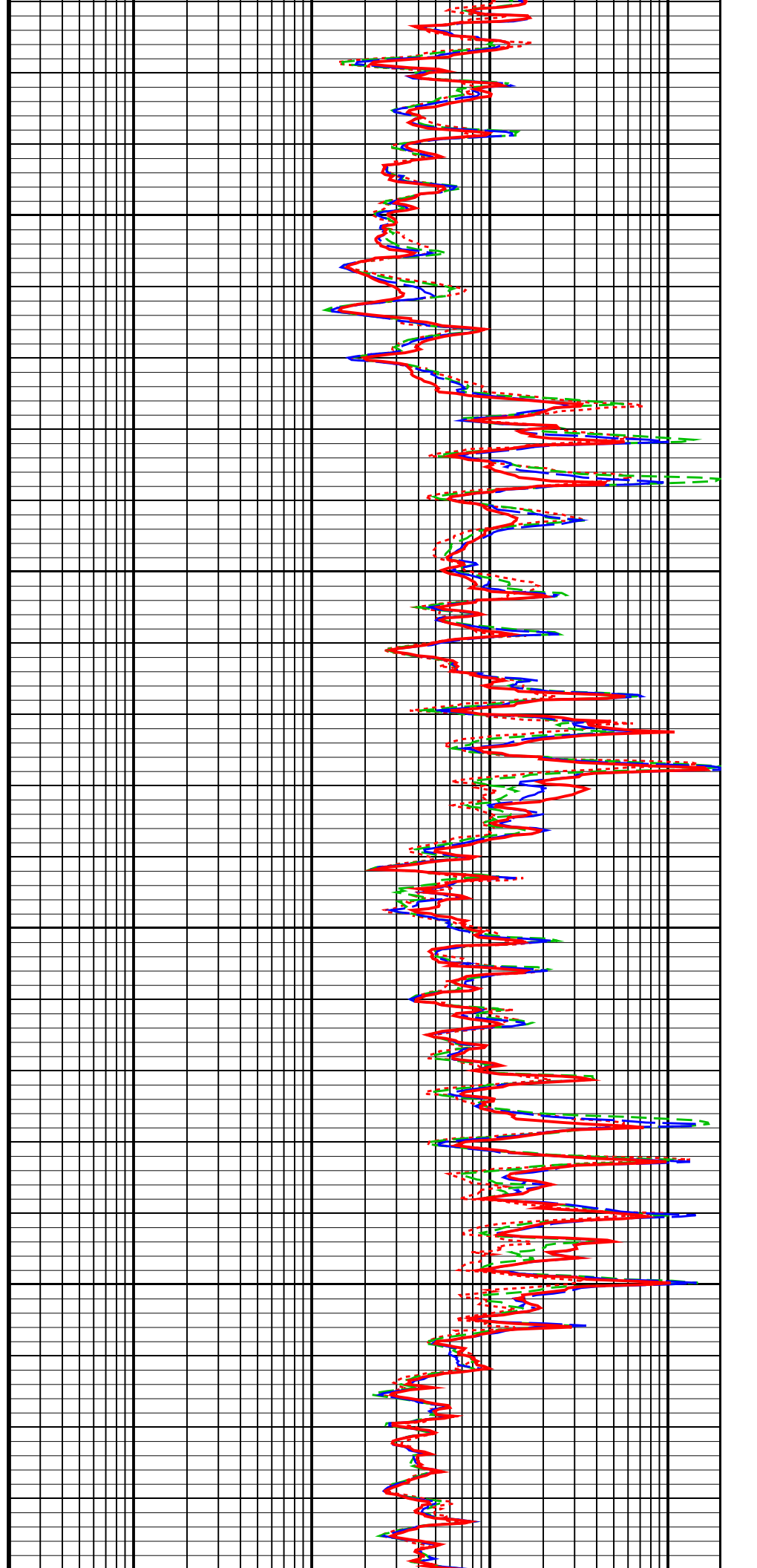
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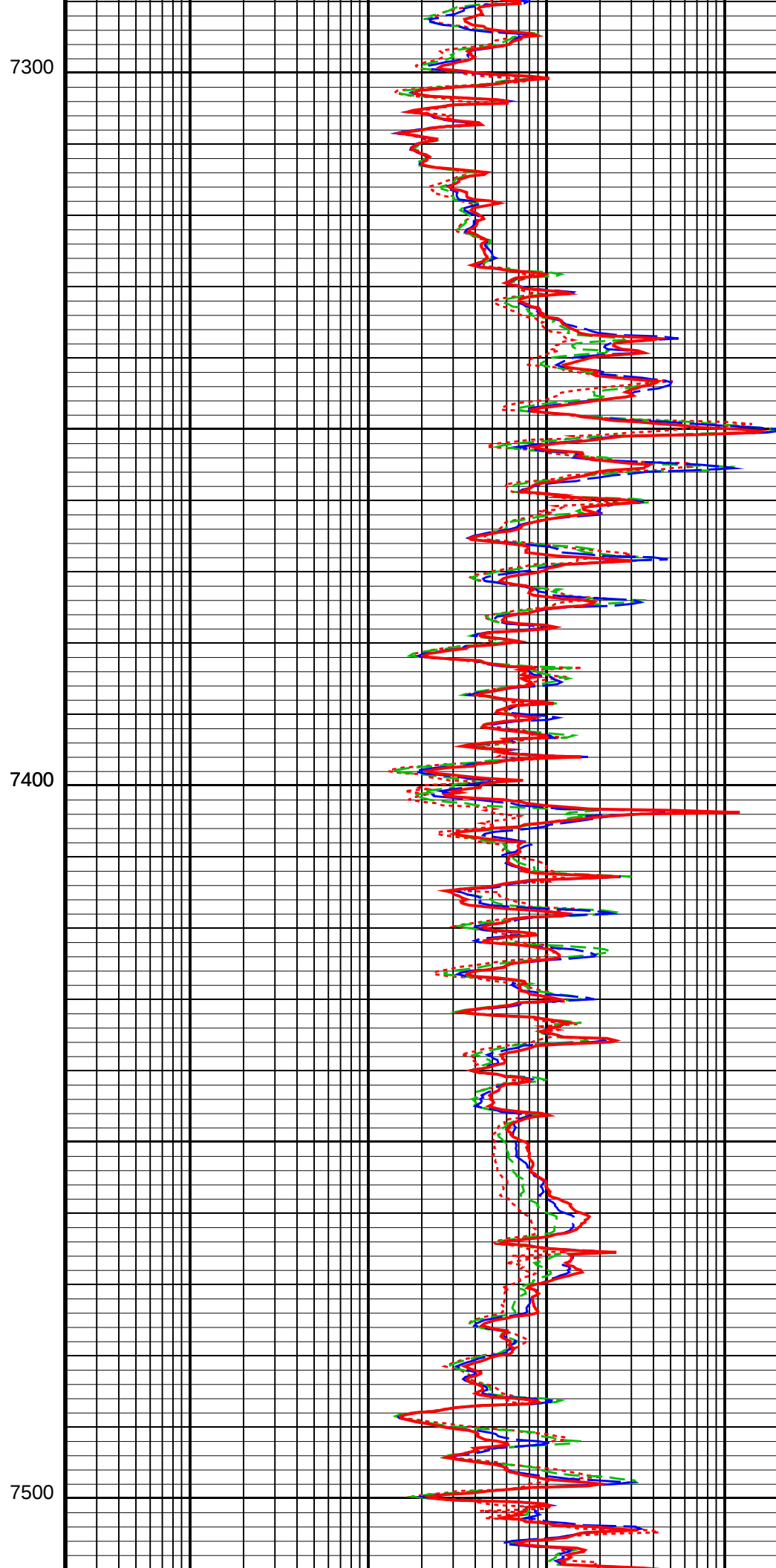
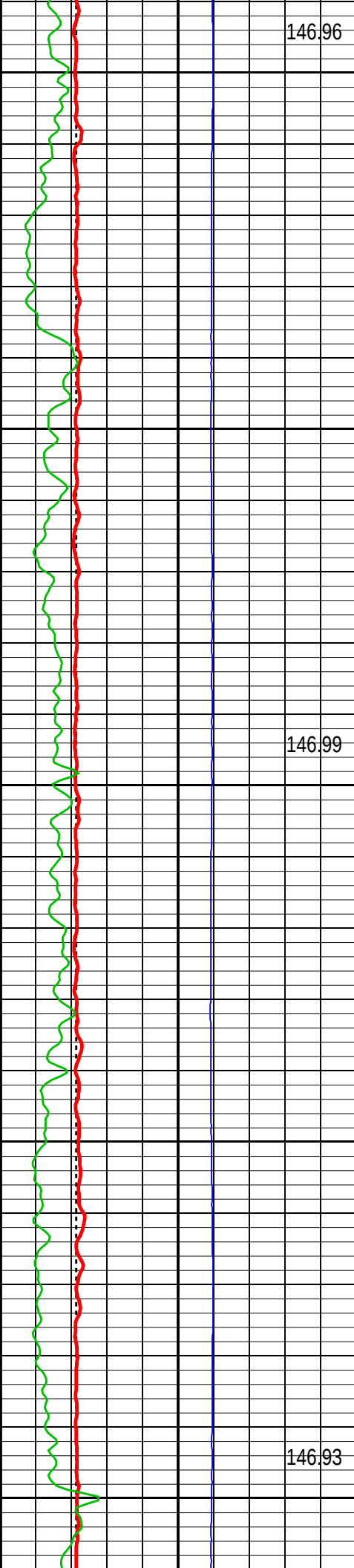


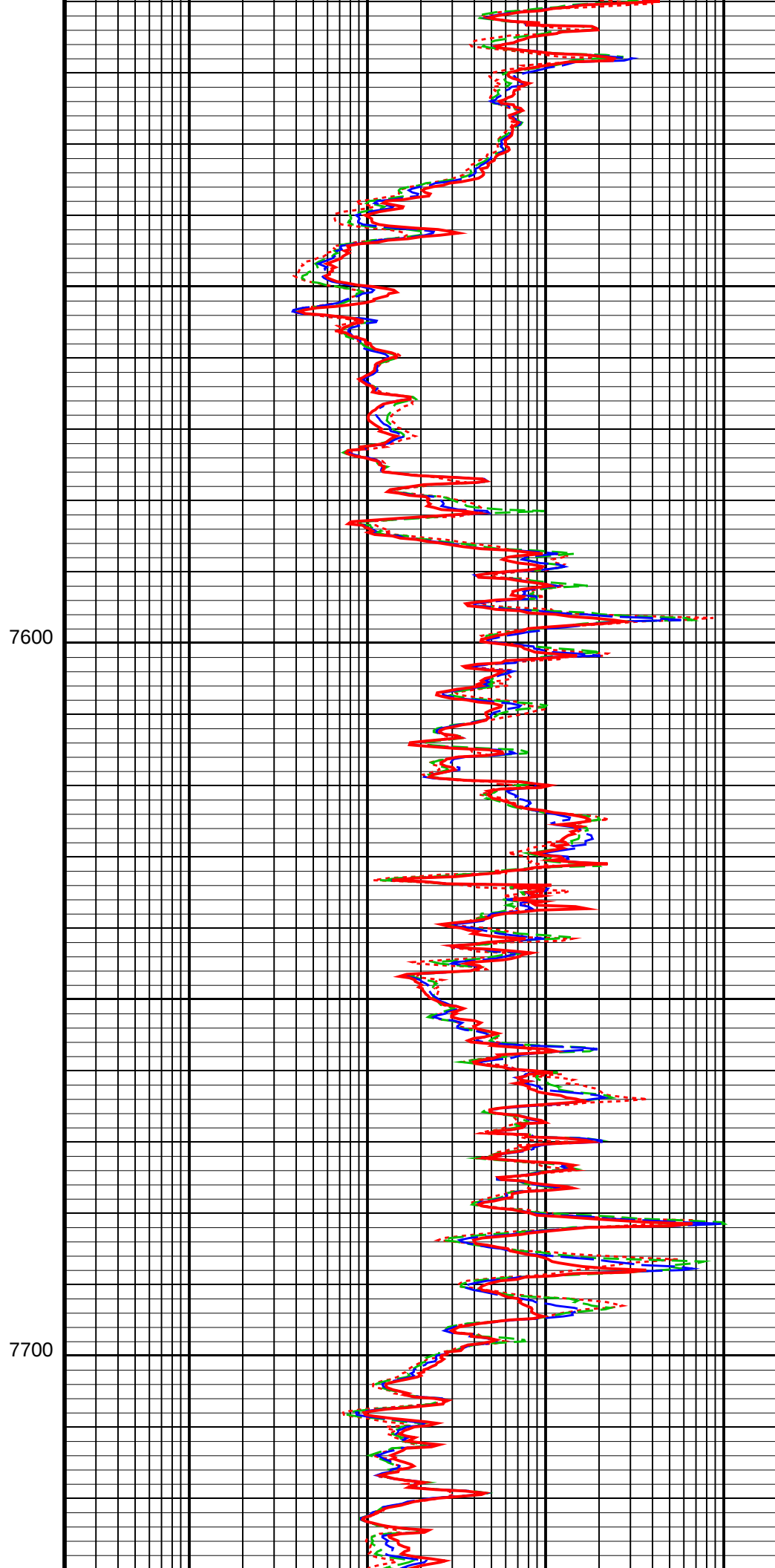
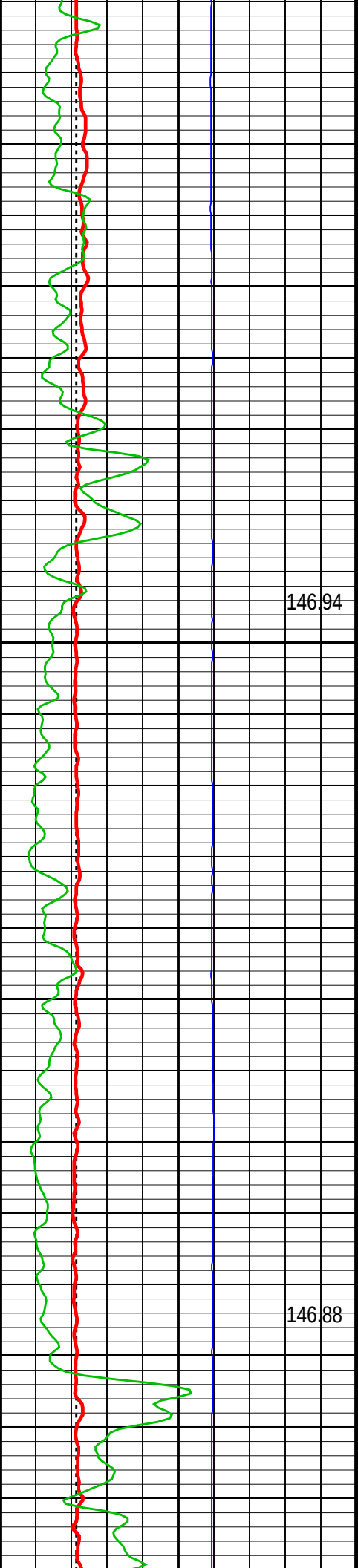


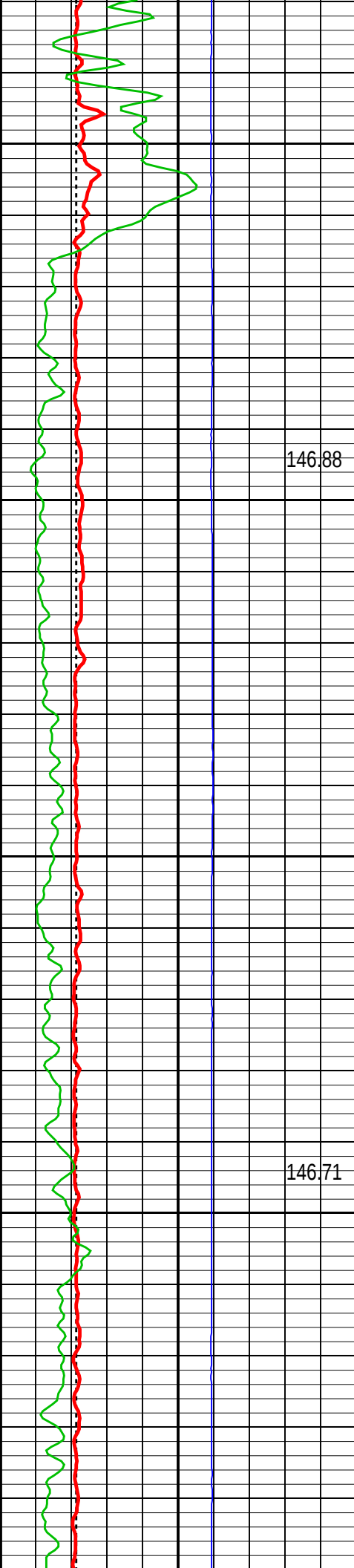
7100

7200



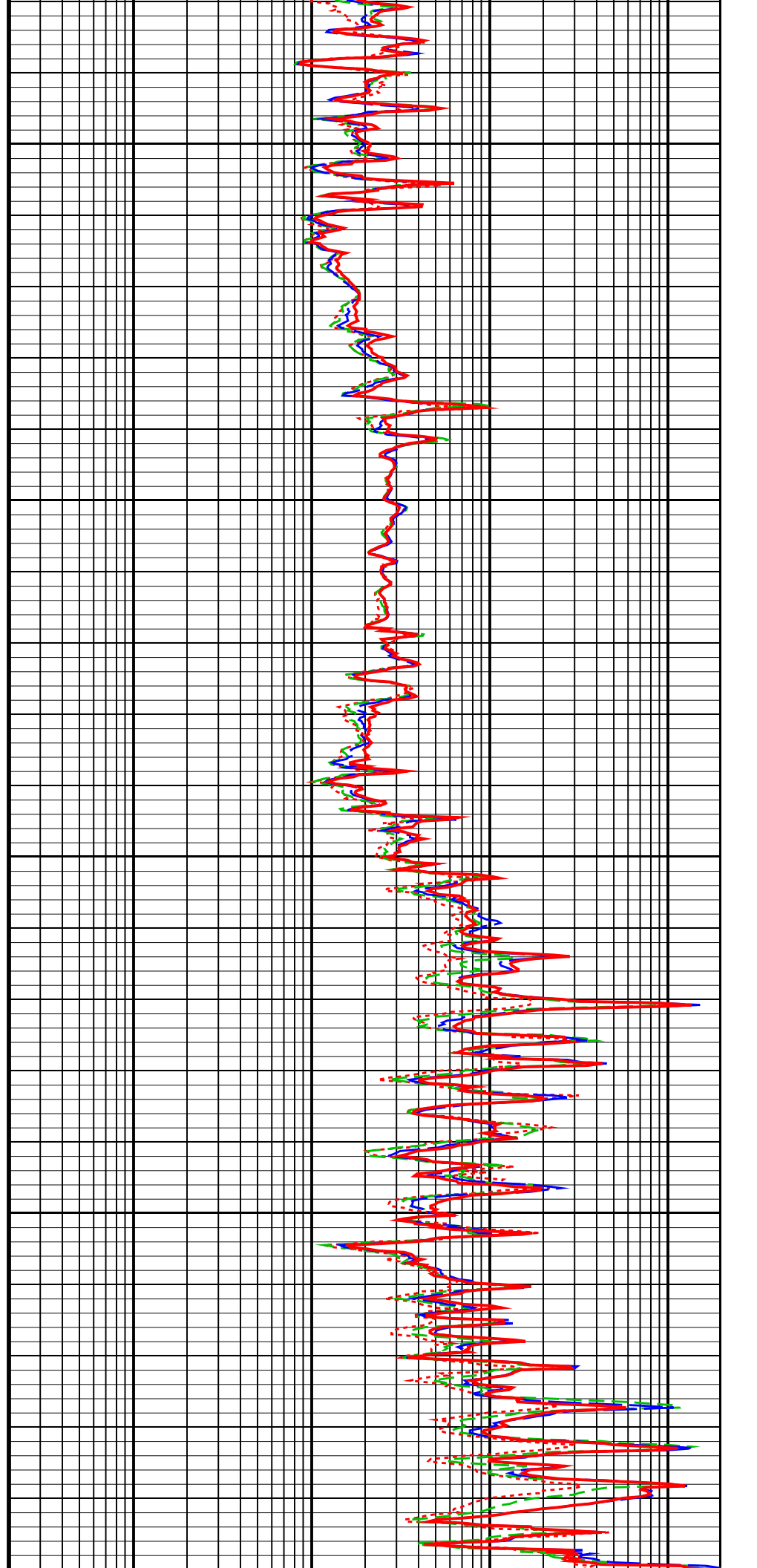


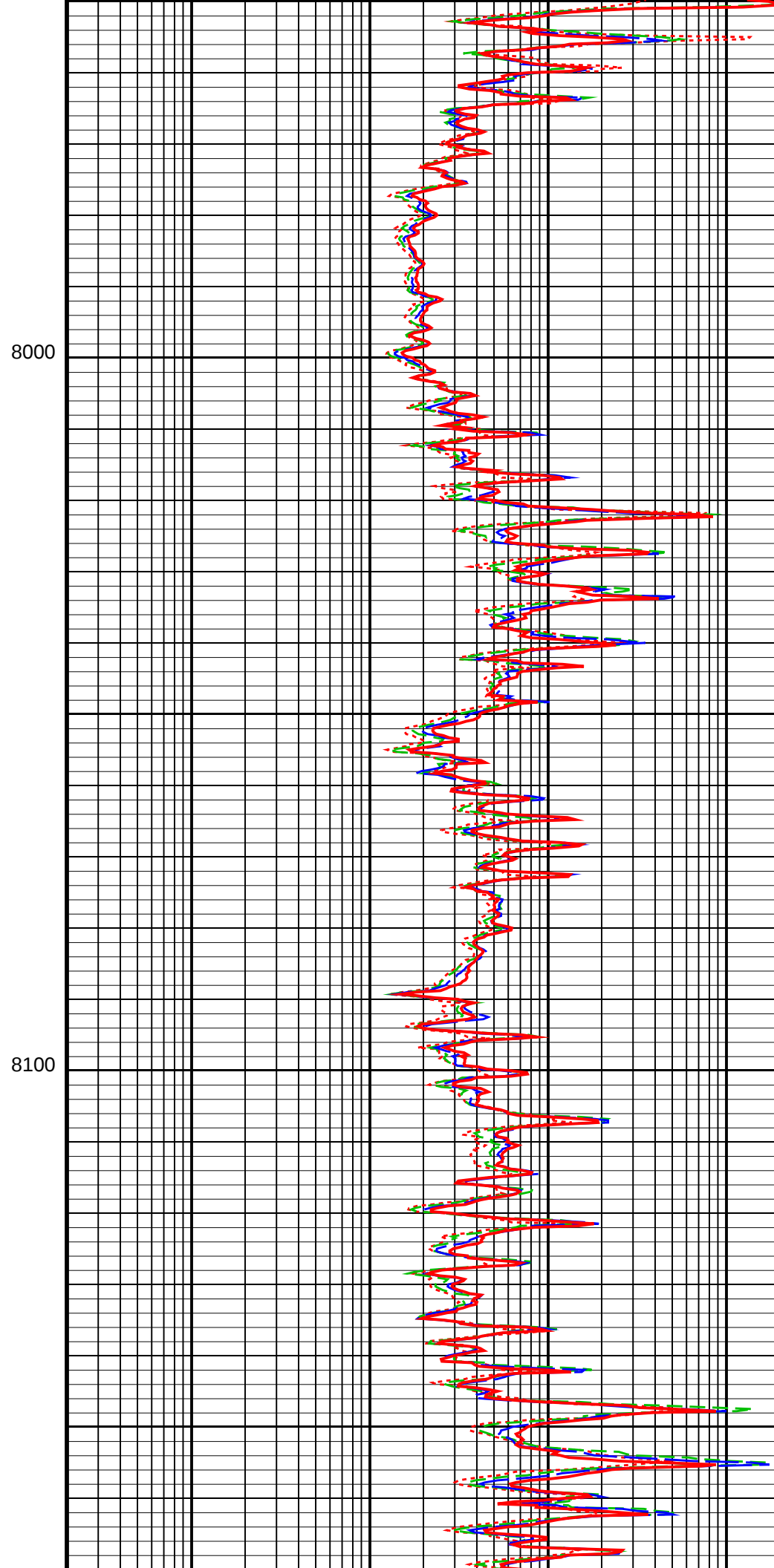


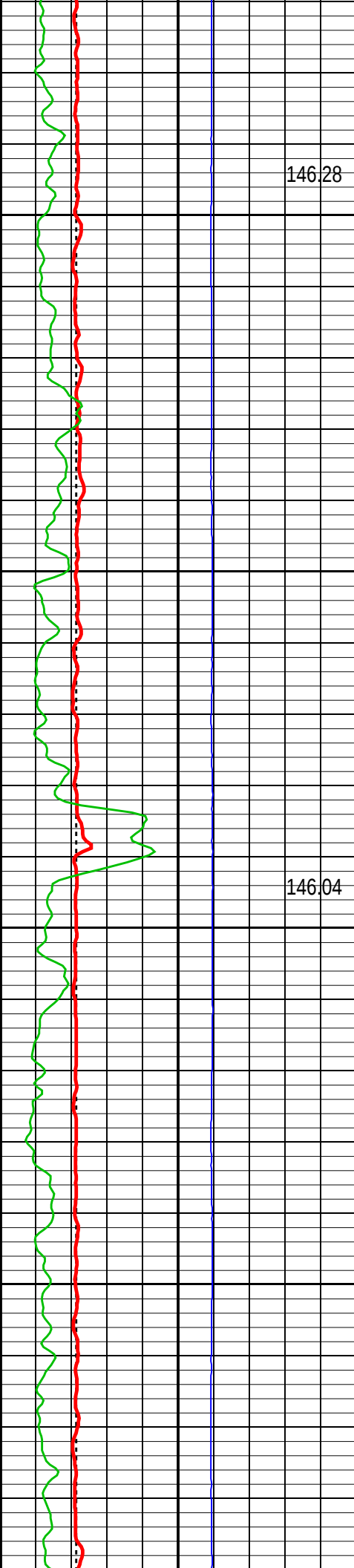


7800

7900

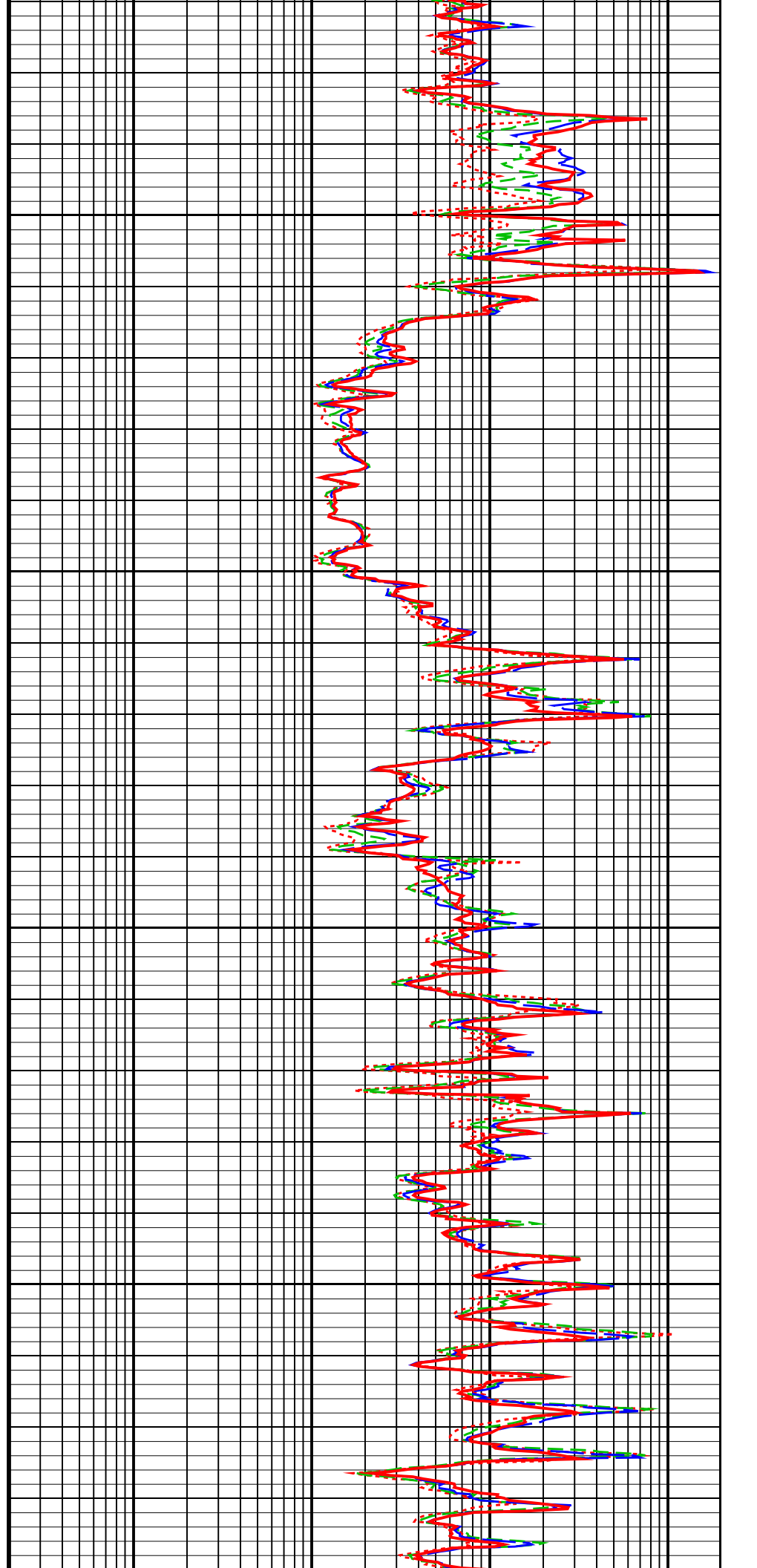


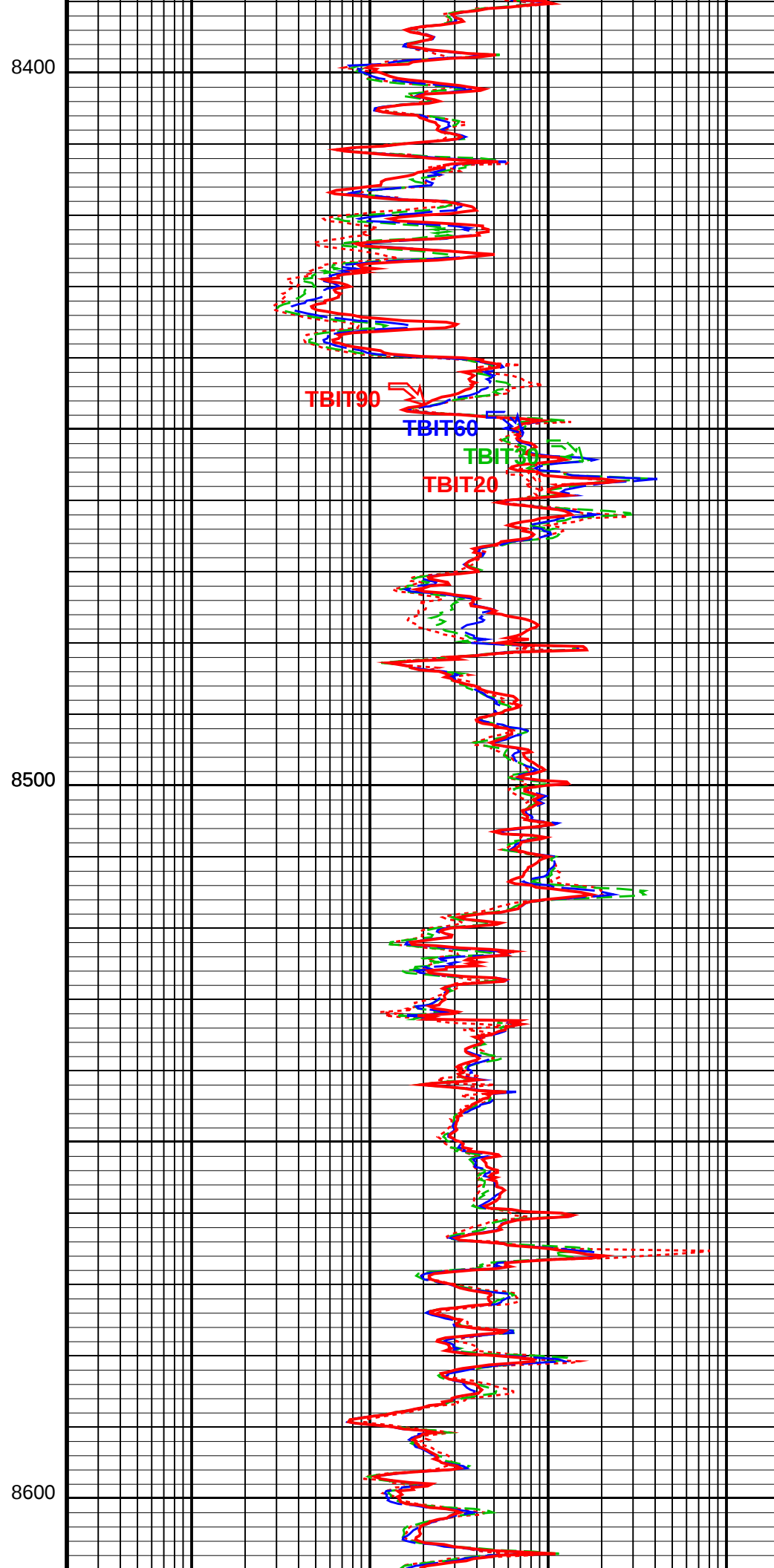
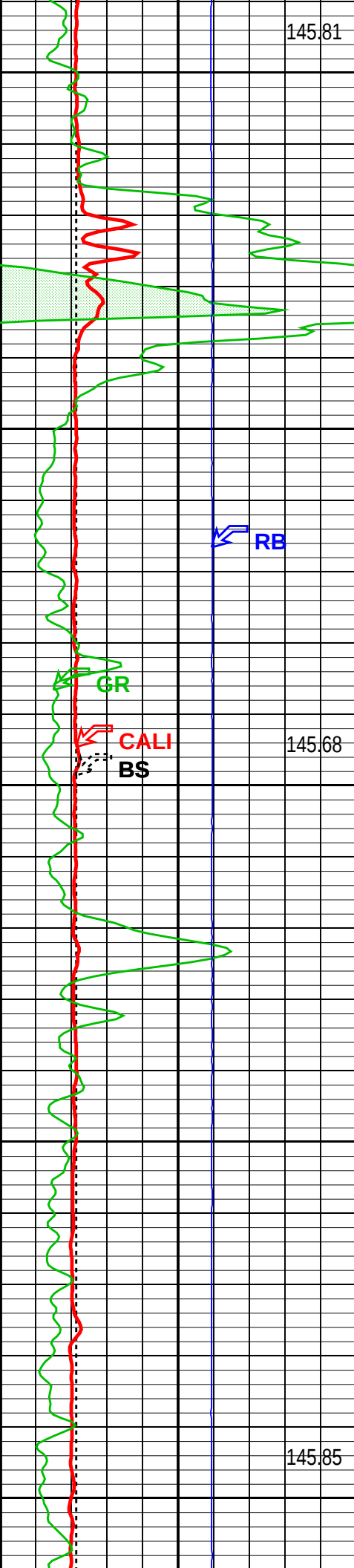


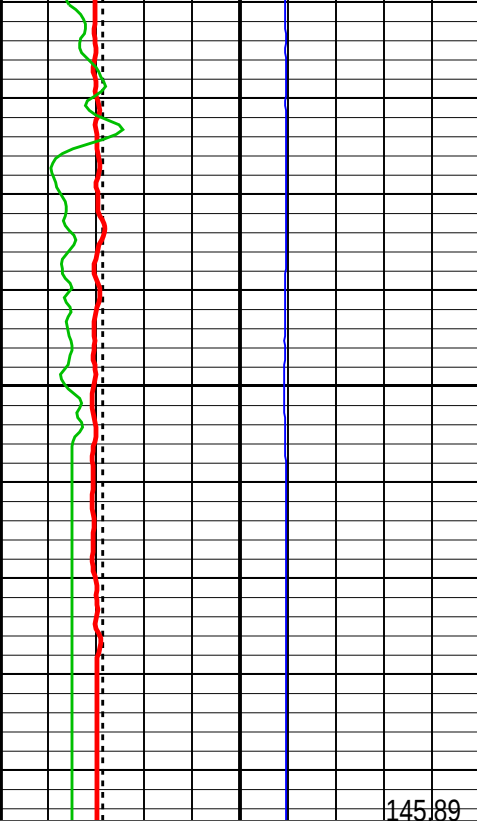


8200

8300

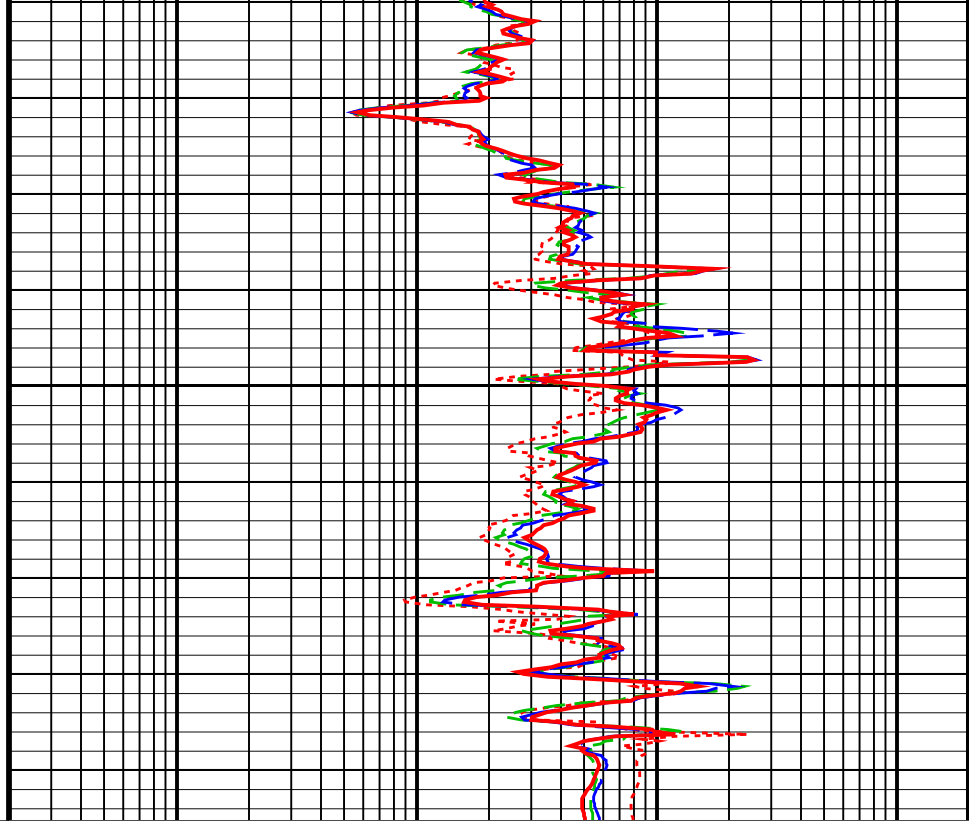






145.89

GR Temp (WTEP) (DEGF)		
Bit Size (BS) (IN)		
4		14
Gamma Ray (GR) (GAPI)		
0		150
Gamma Ray 1 (GR) (GAPI)		
150		300
Gamma Ray 2 (GR) (GAPI)		
300		450
Gamma Ray 3 (GR) (GAPI)		
450		600
Gamma Ray 4 (GR) (GAPI)		
600		750
Caliper (CALI) (IN)		
4		14
gr wrap1 From LHT1 to GR1		
gr wrap2 From LHT1 to GR2		
gr wrap3 From LHT1 to GR3		
gr wrap4 From LHT1 to GR4		
Relative Bearing (RB)		
0		940
(DEG)		



TBI 20 Inch Investigation (TBIT20) (OHMM)		
0.2		2000
TBI 30 Inch Investigation (TBIT30) (OHMM)		
0.2		2000
TBI 60 Inch Investigation (TBIT60) (OHMM)		
0.2		2000
TBI 90 Inch Investigation (TBIT90) (OHMM)		
0.2		2000

Parameters

DLIS Name	Description	Value
TBT-A: ThruBit String		
MT	Mud Type (for TBN and TBI correction)	WBM
RB_OFFSET	Additional RB offset (degrees)	0.000 deg
TBI_ALGO	TBI Algorithm Selection	AIT
TBI_BHC_OP	Borehole Correction Option (for TBI)	CALIPER
TBI_CALTYP	TBI Mastercal Type	THRUBIT
TBI_REPL_ARRAY_DEST	TBI: Replace This Array	NONE
TBI_REPL_ARRAY_SOURCE	TBI: With This Array	NONE
TBI_TC_OP	Induction Temperature Correction Option	LOWER
System and Miscellaneous		
BS	Bit Size	6.125 in
Format: TB_5INCH_RESISTIVITY Vertical Scale: 5" per 100' Graphics File Created: 28-May-2014 22:09		

OP System Version: 19C2-270

TBT SRPC-5298-ThruBit_b

Input DLIS Files				
ThruBit_006PUP	FN:5	28-May-2014 22:03	8695.2 FT	2398.0 FT



CALIBRATIONS

MAXIS Field Log

ThruBit String / Equipment Identification			
Primary Equipment:			
Induction Resistivity	TBI - A	48	
Density	TBD - A	43	
Gamma-Ray Logging Source	GGLS - FZ	3216	
Thermal Neutron	TBN - A	27	
Neutron Logging Source	NNLS - EWA	4484	
Telemetry Memory GR	TMG - A	27	
Battery	TBAT -	35	
Battery	TBAT -	13	
Auxiliary Equipment:			

ThruBit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal
	-475.662	-457.000		-20.0744	300.000
-536.000 (Minimum)	-387.000 (Maximum)		-500.000 (Minimum)	1100.00 (Maximum)	
(Nominal)			(Nominal)		
Freq 1, A2, R	Value	Nominal	Freq 1, A2, X	Value	Nominal
	-148.883	-141.000		17.2923	320.000
-162.000 (Minimum)	-120.000 (Maximum)		-75.0000 (Minimum)	700.000 (Maximum)	
(Nominal)			(Nominal)		
Freq 1, A3, R	Value	Nominal	Freq 1, A3, X	Value	Nominal
	-30.2273	-28.0000		-45.4175	50.0000
-38.0000 (Minimum)	-18.0000 (Maximum)		-375.000 (Minimum)	475.000 (Maximum)	
(Nominal)			(Nominal)		
Freq 1, A4, R	Value	Nominal	Freq 1, A4, X	Value	Nominal
	-16.8583	-16.0000		224.452	300.000
-24.0000	-8.00000		25.0000	575.000	

(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)
Freq 1, A5, R			Value	Nominal	Freq 1, A5, X	
			-14.8593	-14.0000		
-21.0000 (Minimum)	(Nominal)	-7.00000 (Maximum)		25.0000 (Minimum)	(Nominal)	275.000 (Maximum)
Freq 2, A1, R			Value	Nominal	Freq 2, A1, X	
			-246.838	-237.000		
-293.000 (Minimum)	(Nominal)	-186.000 (Maximum)		-375.000 (Minimum)	(Nominal)	675.000 (Maximum)
Freq 2, A2, R			Value	Nominal	Freq 2, A2, X	
			-96.6990	-92.0000		
-106.000 (Minimum)	(Nominal)	-76.0000 (Maximum)		-100.000 (Minimum)	(Nominal)	425.000 (Maximum)
Freq 2, A3, R			Value	Nominal	Freq 2, A3, X	
			-21.8469	-21.0000		
-28.0000 (Minimum)	(Nominal)	-13.0000 (Maximum)		-325.000 (Minimum)	(Nominal)	250.000 (Maximum)
Freq 2, A4, R			Value	Nominal	Freq 2, A4, X	
			-19.8901	-20.0000		
-28.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)		-75.0000 (Minimum)	(Nominal)	275.000 (Maximum)
Freq 2, A5, R			Value	Nominal	Freq 2, A5, X	
			-19.6387	-20.0000		
-27.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)		-125.000 (Minimum)	(Nominal)	75.0000 (Maximum)
Freq 3, A1, R			Value	Nominal	Freq 3, A1, X	
			-156.728	-149.000		
-193.000 (Minimum)	(Nominal)	-108.000 (Maximum)		-375.000 (Minimum)	(Nominal)	425.000 (Maximum)
Freq 3, A2, R			Value	Nominal	Freq 3, A2, X	
			-73.8182	-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	
			-17.9160	-17.0000		
-23.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-300.000 (Minimum)	(Nominal)	125.000 (Maximum)
Freq 3, A4, R			Value	Nominal	Freq 3, A4, X	
			-21.5775	-22.0000		
-31.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-200.000 (Minimum)	(Nominal)	100.000 (Maximum)
Freq 3, A5, R			Value	Nominal	Freq 3, A5, X	
			-22.3506	-22.0000		
-32.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-250.000 (Minimum)	(Nominal)	-25.0000 (Maximum)
Freq 4, A1, R			Value	Nominal	Freq 4, A1, X	
			-86.0029	-80.0000		
-108.000 (Minimum)	(Nominal)	-54.0000 (Maximum)		-450.000 (Minimum)	(Nominal)	75.0000 (Maximum)
Freq 4, A2, R			Value	Nominal	Freq 4, A2, X	
			-53.0604	-50.0000		
-60.0000 (Minimum)	(Nominal)	-41.0000 (Maximum)		-200.000 (Minimum)	(Nominal)	50.0000 (Maximum)
Freq 4, A3, R			Value	Nominal	Freq 4, A3, X	
			-14.2016	-14.0000		
-19.0000 (Minimum)	(Nominal)	-8.00000 (Maximum)		-350.000 (Minimum)	(Nominal)	-25.0000 (Maximum)
Freq 4, A4, R			Value	Nominal	Freq 4, A4, X	
			-24.7660	-25.0000		
-37.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-400.000 (Minimum)	(Nominal)	-75.0000 (Maximum)
Freq 4, A5, R			Value	Nominal	Freq 4, A5, X	
			-28.0152	-28.0000		
-43.0000 (Minimum)	(Nominal)	-12.0000 (Maximum)		-475.000 (Minimum)	(Nominal)	-125.000 (Maximum)

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Master: 11-Mar-2014 11:48					

ThruBit String Master Calibration					
TBI Master Calibration COMPLEX GAINS					
Freq 1, R	Value	Nominal	Freq 1, X	Value	Nominal
	0.9931	1.000		-0.003803	0
	0.9901	1.000		0.0002989	0
	0.9938	1.000		-0.006371	0
	0.9947	1.000		0.001656	0
	0.9990	1.000		0.001395	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
	0.9886	1.000		-0.009418	0
	0.9847	1.000		-0.005867	0
	0.9828	1.000		-0.005264	0
	0.9903	1.000		-0.004911	0
	0.9954	1.000		-0.005778	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
	0.9894	1.000		-0.006061	0
	0.9858	1.000		-0.002992	0
	0.9836	1.000		-0.002560	0
	0.9902	1.000		-0.002742	0
	0.9972	1.000		-0.002038	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
	0.9918	1.000		-0.008870	0
	0.9876	1.000		-0.006815	0
	0.9875	1.000		-0.008579	0
	0.9922	1.000		-0.007446	0
	1.006	1.000		-0.006792	0
0.9300 (Minimum)	(Nominal)	1.070 (Maximum)	-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)
Master: 11-Mar-2014 11:48					

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
	1918.4	1949.8		2046.2	2096.7		2176.2	2285.7
1799.8 (Minimum)	(Nominal)	2099.8 (Maximum)	1946.7 (Minimum)	(Nominal)	2246.7 (Maximum)	2135.7 (Minimum)	(Nominal)	2435.7 (Maximum)
Master: 9-May-2014 11:01								

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
	144.74	140.00		133.43	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

	29.27	29.00		4617.14	4850.00
20.00 (Minimum)	38.00 (Maximum)		4076.00 (Minimum)	5613.00 (Maximum)	
LS1 Aluminium CPS		Value	Nominal	SS1 Magnesium CPS	
	915.65	870.00		7550.90	8000.00
750.00 (Minimum)	982.00 (Maximum)		6695.00 (Minimum)	9269.00 (Maximum)	
LS4 Aluminium CPS		Value	Nominal		
	969.92	955.00			
796.00 (Minimum)	1169.0 (Maximum)				
LS1 Al + Sleeve CPS		Value	Nominal		
	821.92	725.00			
650.00 (Minimum)	838.00 (Maximum)				
LS4 Al + Sleeve CPS		Value	Nominal		
	460.44	426.50			
382.00 (Minimum)	638.00 (Maximum)				
LS1 Magnesium CPS		Value	Nominal		
	5880.64	5800.00			
5158.00 (Minimum)	6486.00 (Maximum)				
SS Slope		Value	Nominal		
	1.678	1.645			
1.520 (Minimum)	1.770 (Maximum)				
LS Slope		Value	Nominal		
	0.4228	0.4150			
0.3800 (Minimum)	0.4500 (Maximum)				
Pef K Factor		Value	Nominal		
	4.696	4.840			
3.510 (Minimum)	6.170 (Maximum)				
Pef B Factor		Value	Nominal		
	-0.5209	-0.5550			
-0.7000 (Minimum)	-0.4100 (Maximum)				

Master: 9-May-2014 10:53

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)	-8.810 (Maximum)			8.810 (Minimum)	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)	-8.810 (Maximum)			8.810 (Minimum)	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)	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 (Nominal)		136.6 (Minimum)	205.0 (Nominal)	
Maximum			Maximum		
Master: Calibration out of date 15-Oct-2013 12:57					

Company: **SANDRIDGE ENERGY**

Schlumberger

Well: **BARBARA 3404 1-4H**

Field: **BLUFF**

County: **SUMNER**

State: **KANSAS**

ARRAY INDUCTION
GAMMA RAY
MEMORY LOG

Company: SANDRIDGE ENERGY

Well: BARBARA 3404 1-4H

Input DLIS Files

ThruBit_006PUP

FN:5

28-May-2014 22:03 8695.2 FT

2398.0 FT

OP System Version: 19C2-270

TBT SRPC-5298-ThruBit_b

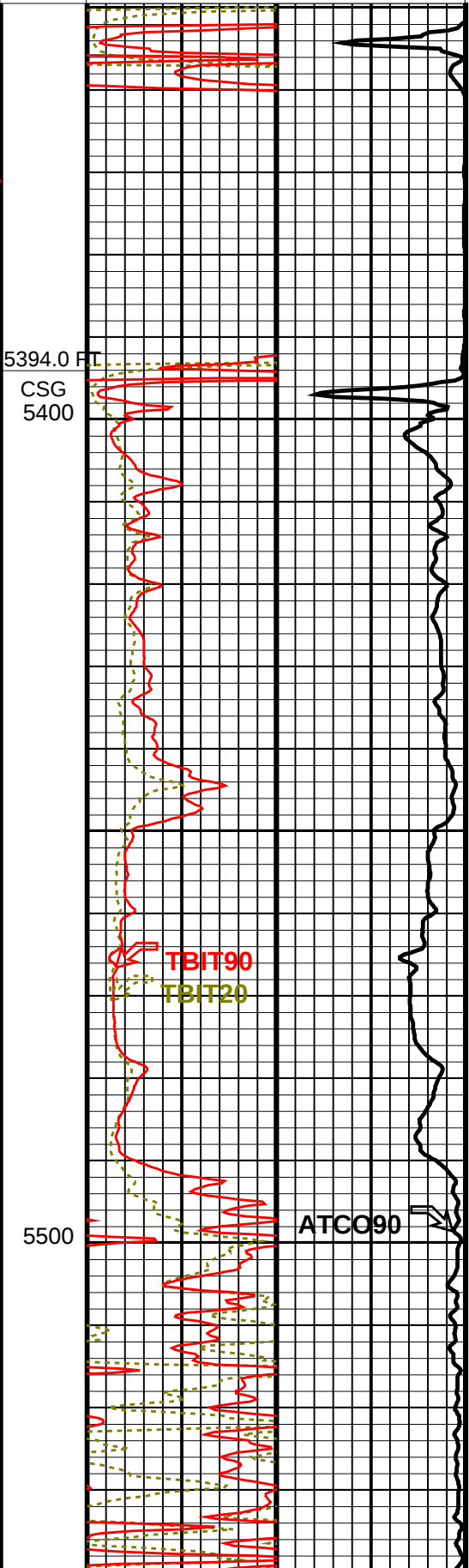
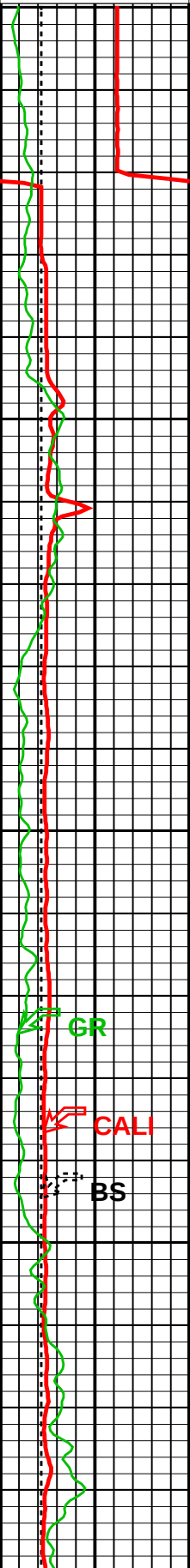
Caliper (CALI)	TBI 90 Inch Investigation (TBIT90)
4 (IN) 14	0 (OHMM) 50

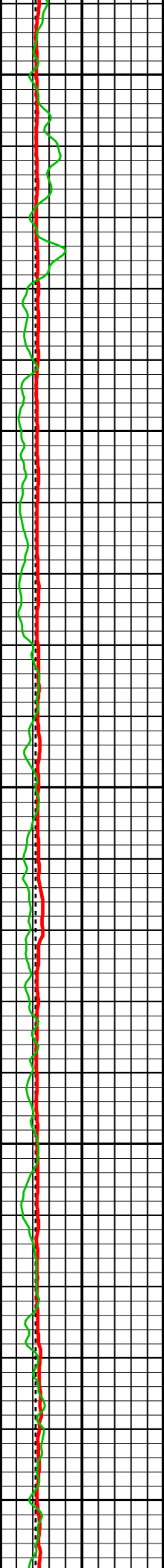
Gamma Ray (GR)
0 (GAPI) 150

Bit Size (BS)
4 (IN) 14

TBI 20 Inch
Investigation
(TBIT20)
0 (OHMM) 50

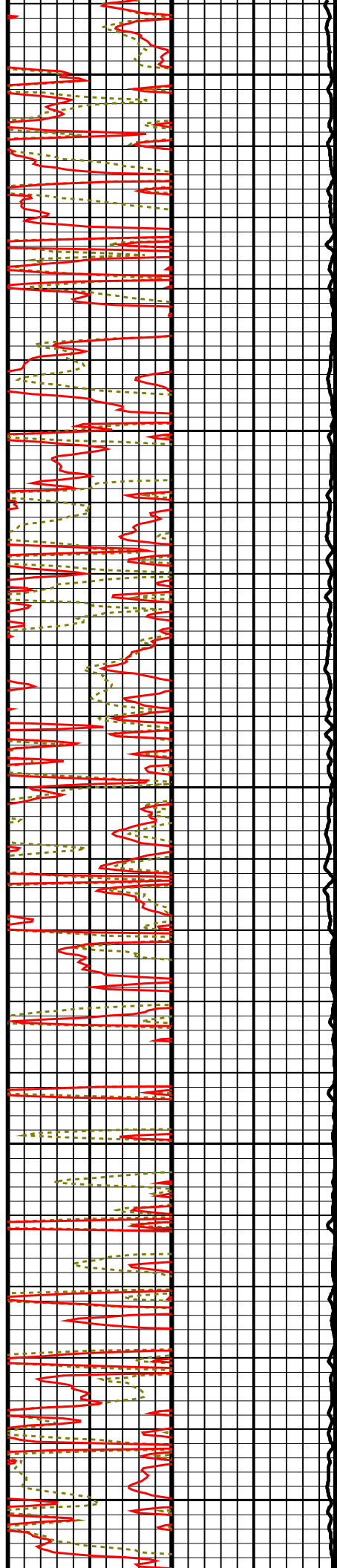
AIT 90 Inch Investigation
Conductivity (ATCO90)
1000 (MS/M) 0

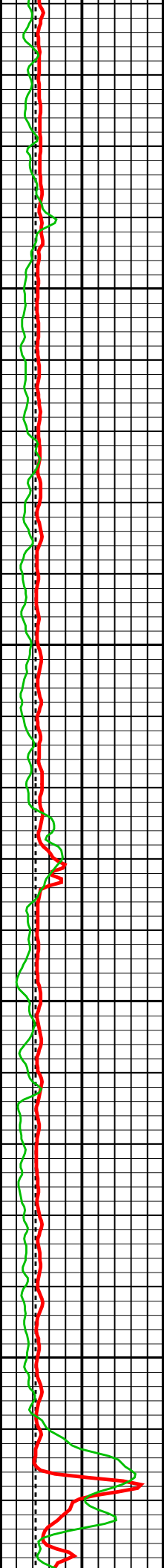




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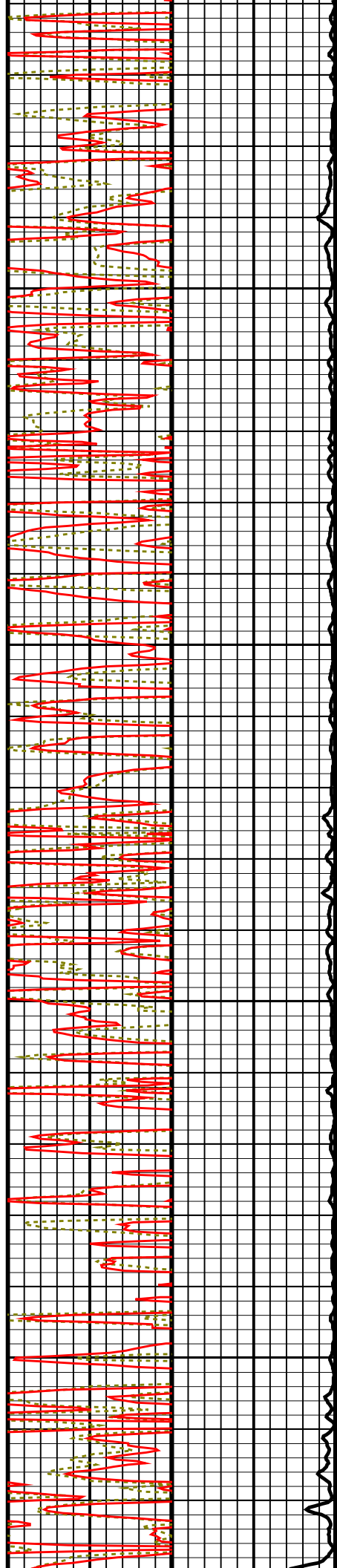
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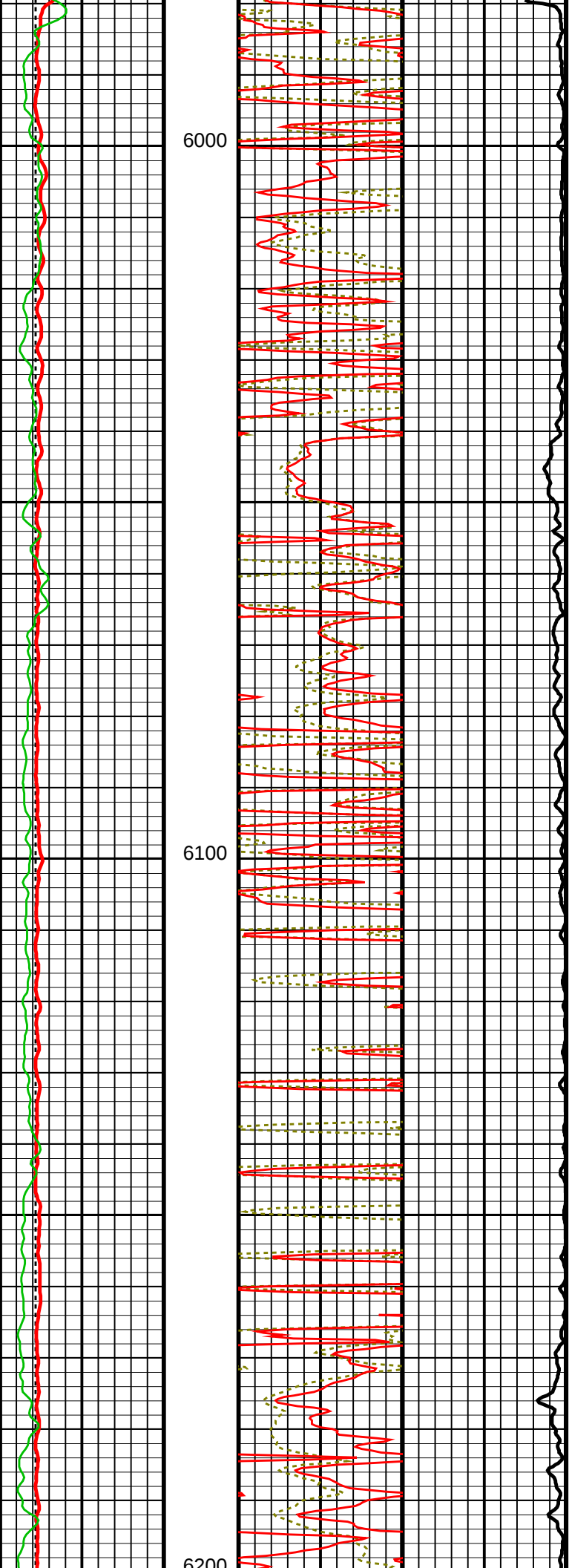


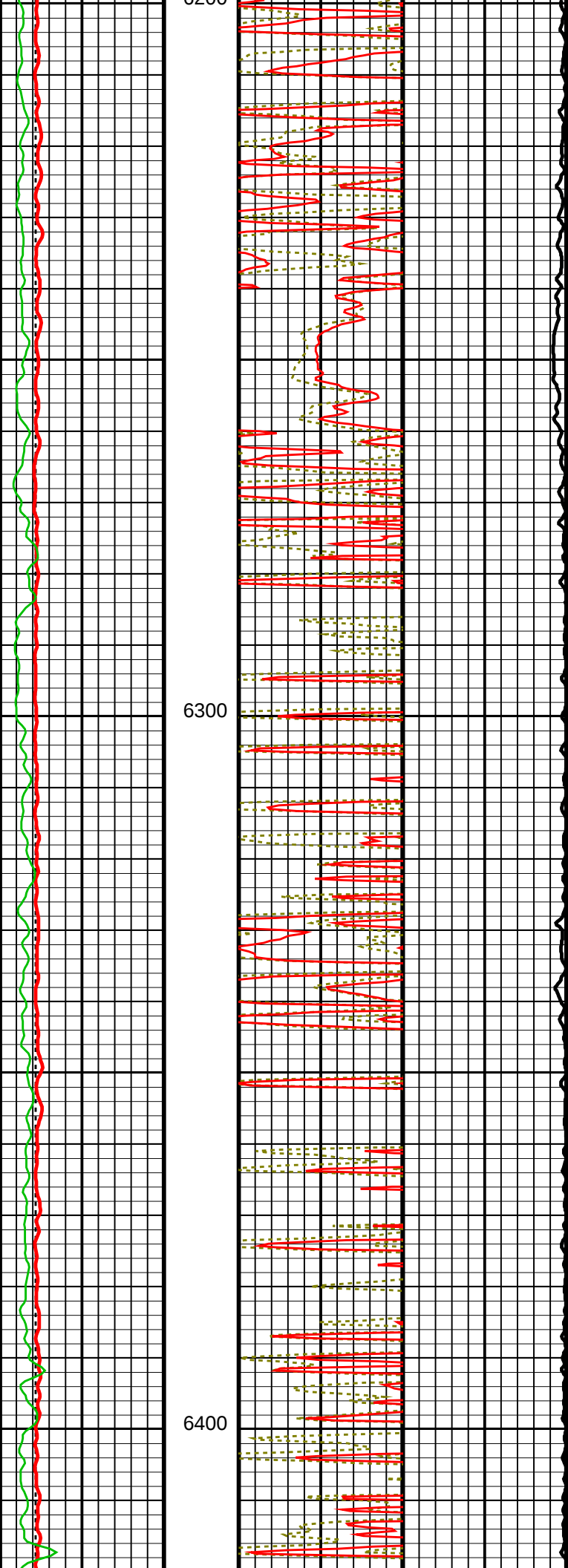


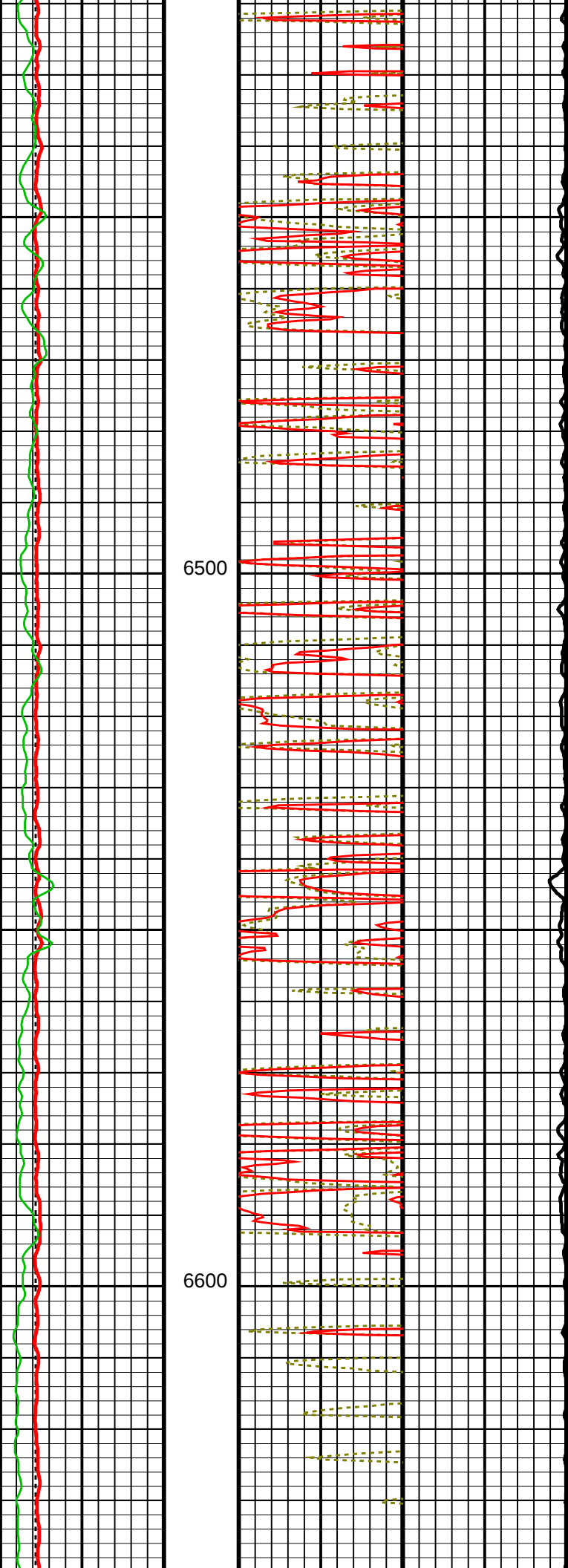
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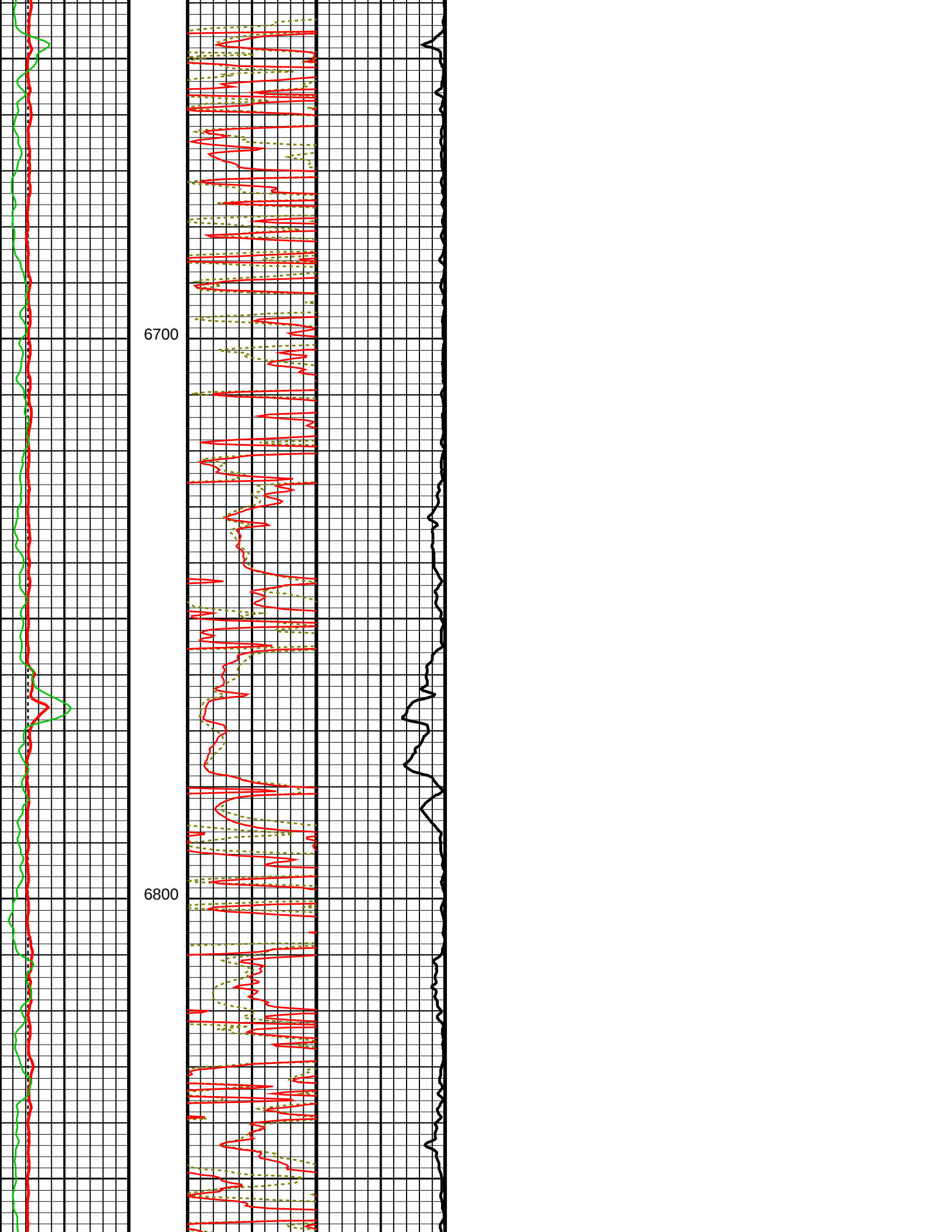
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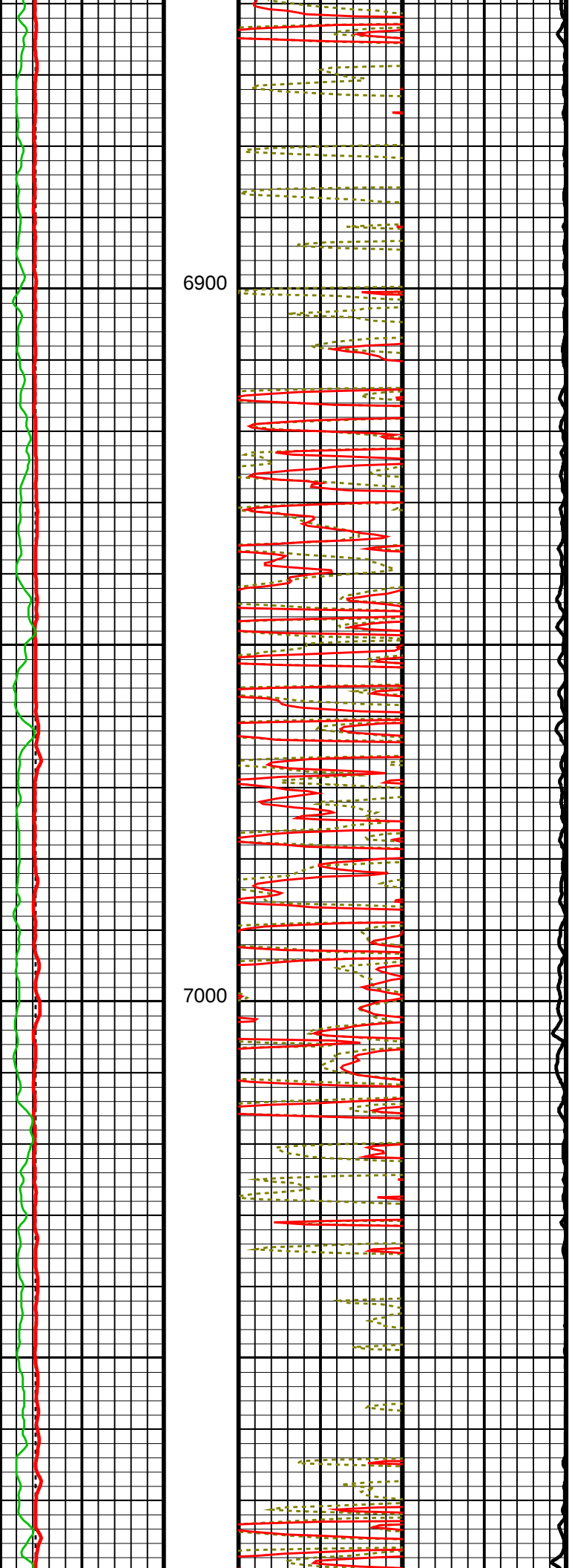


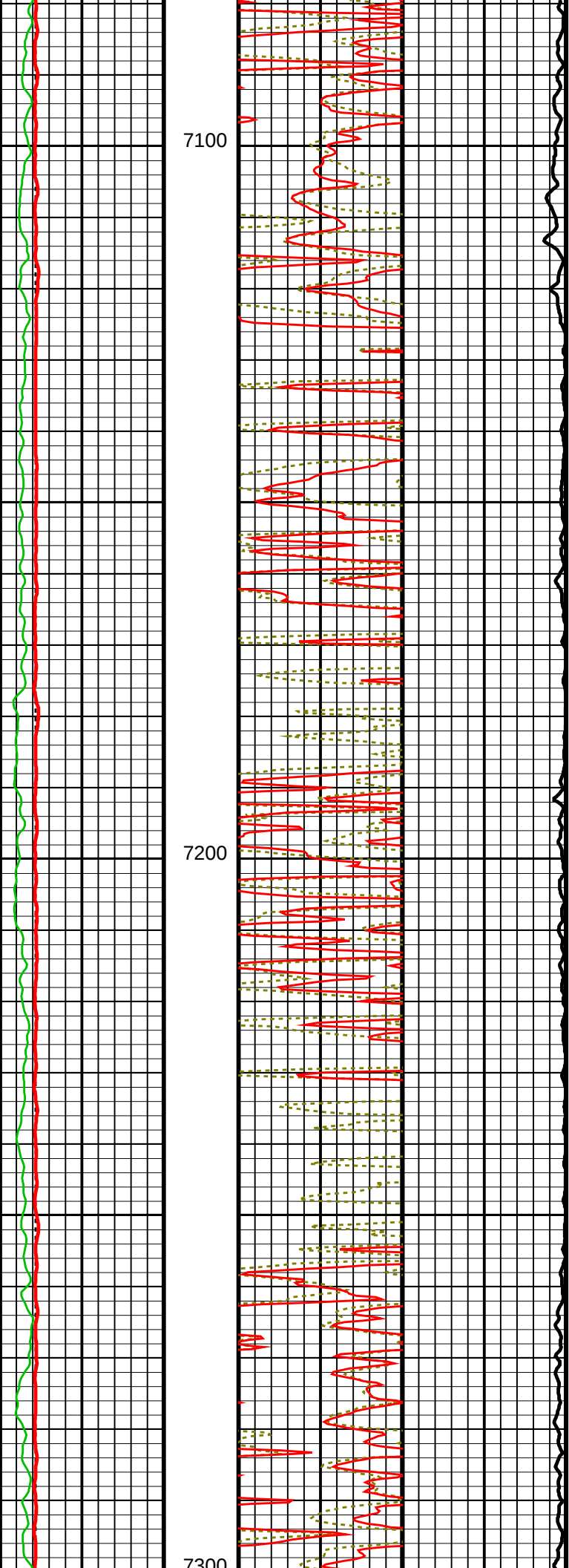


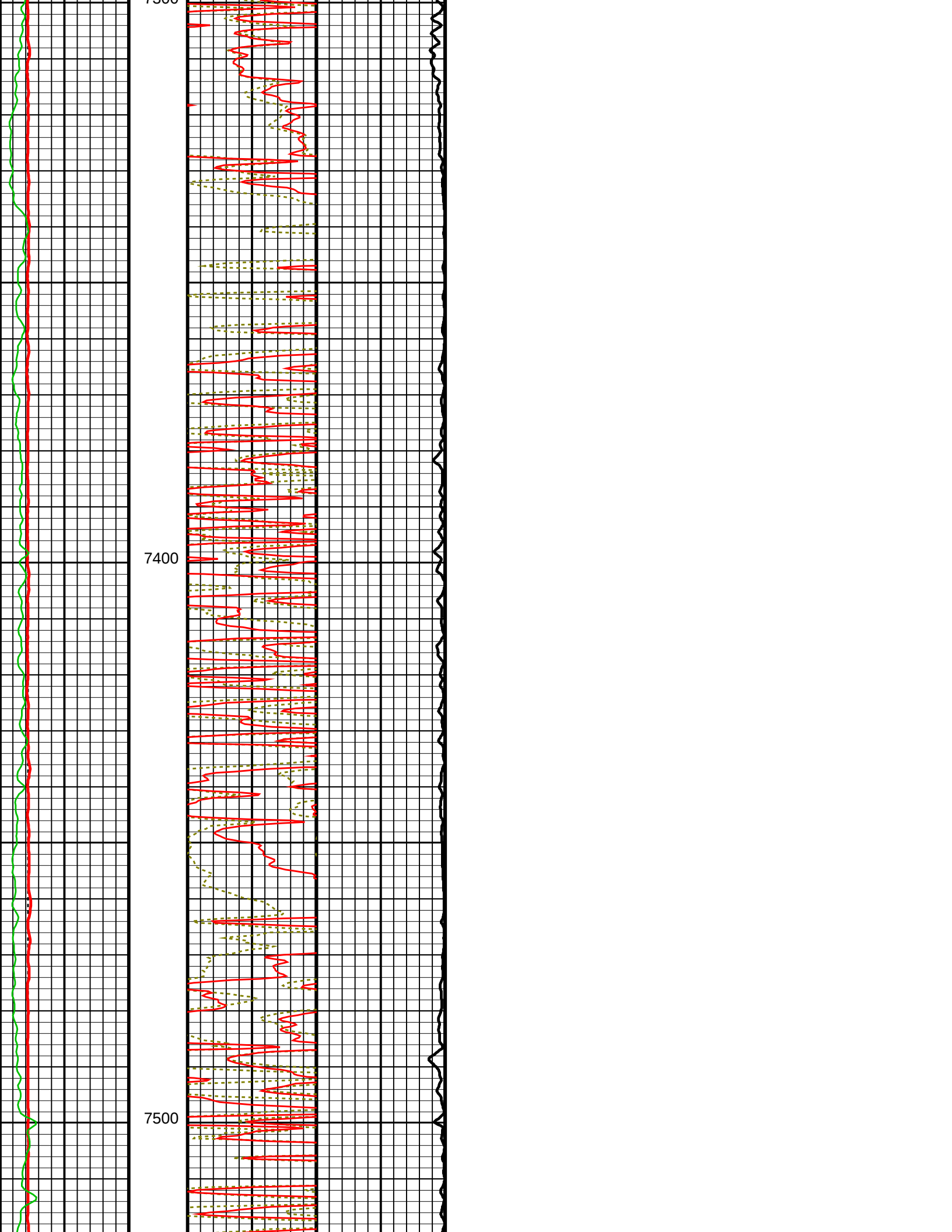


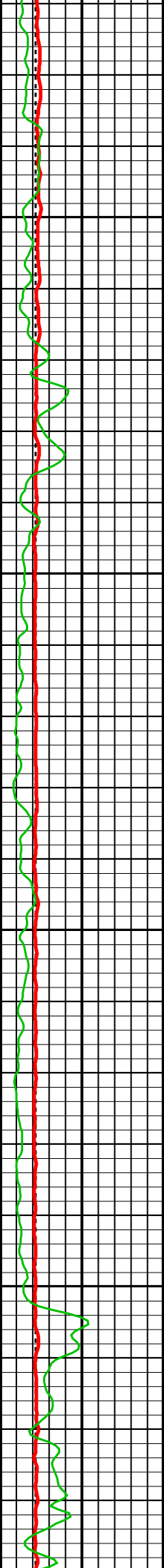






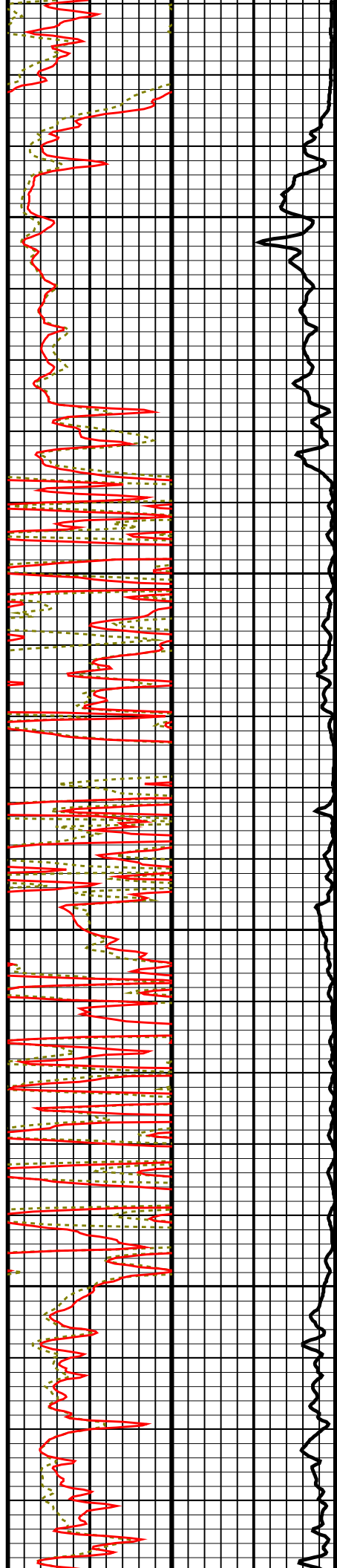


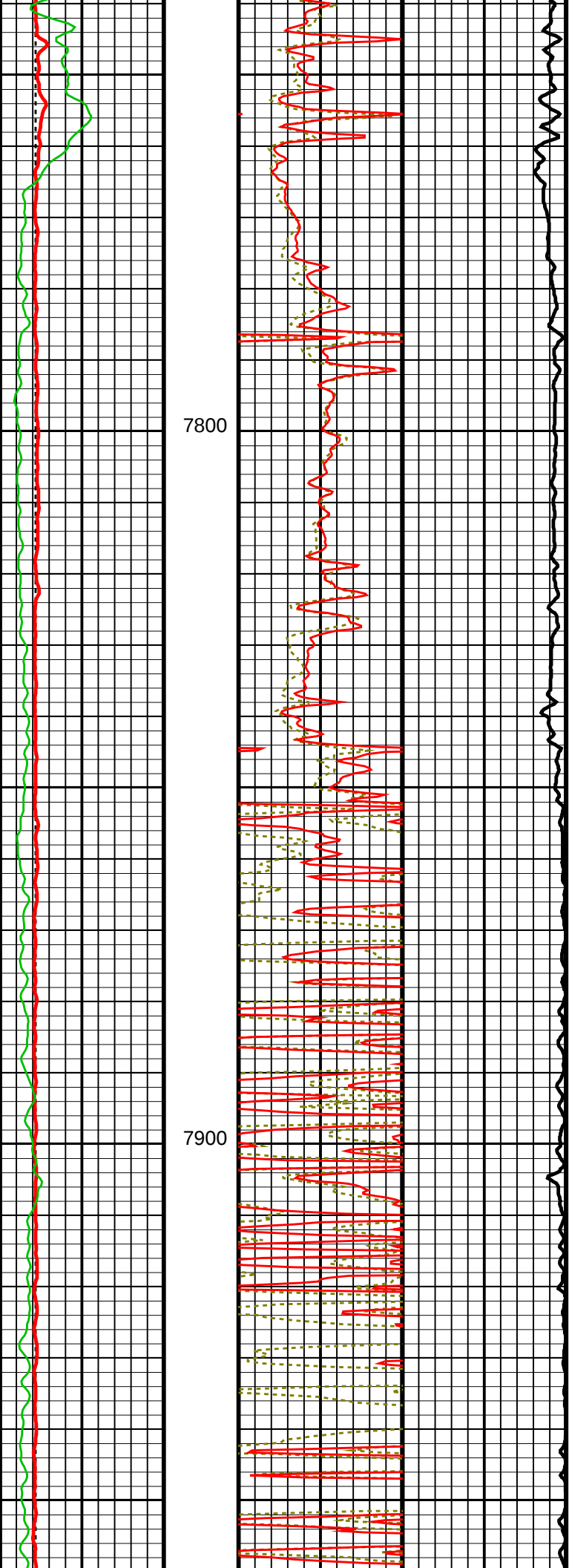


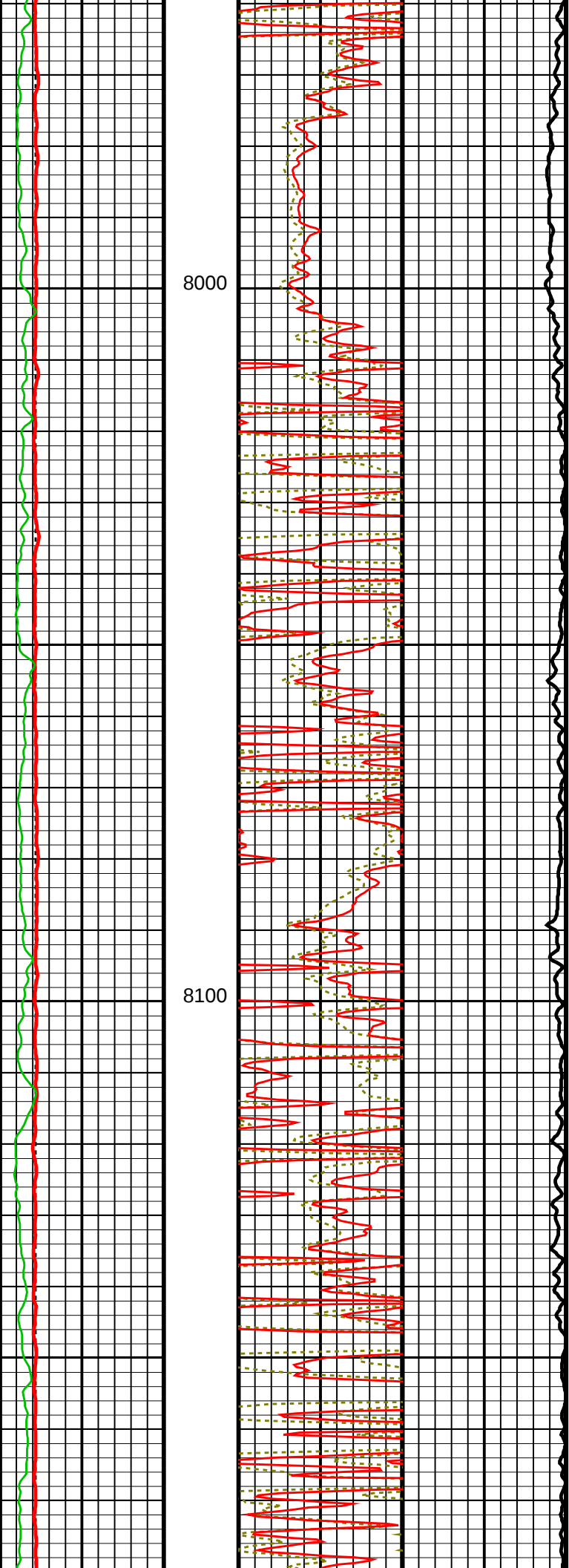


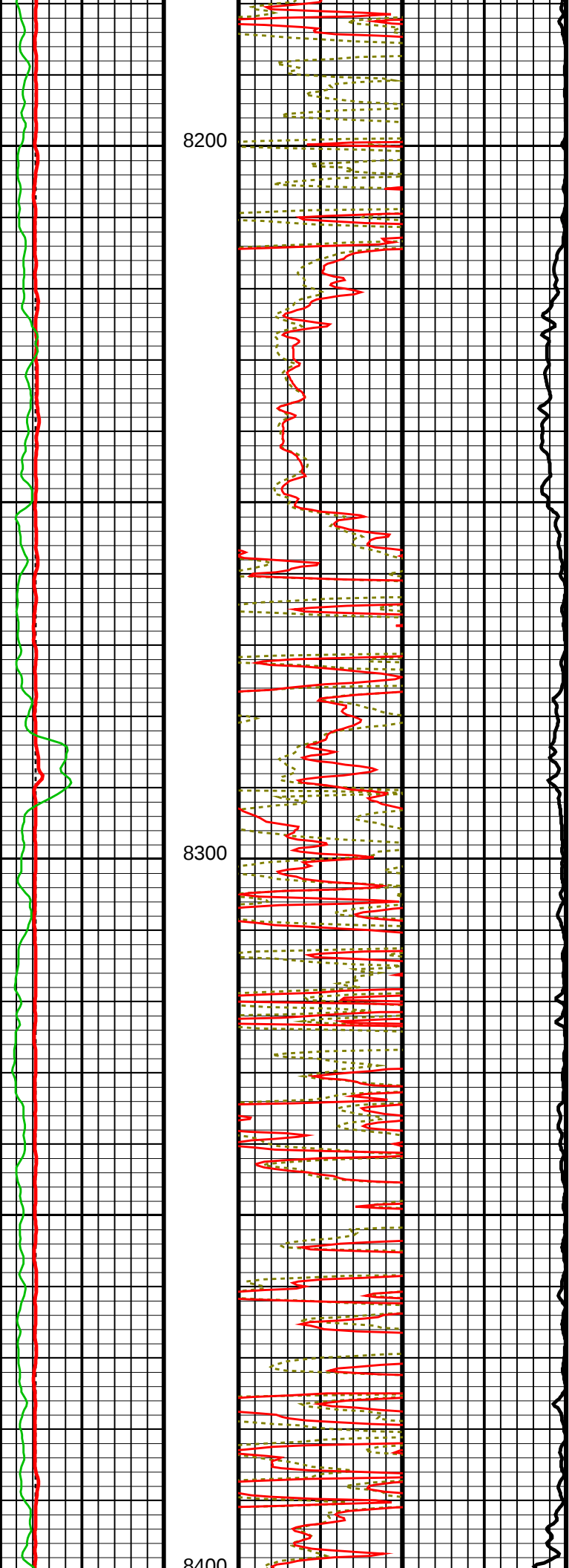
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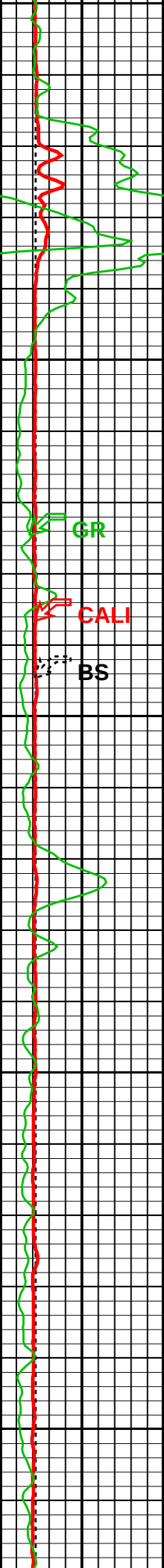
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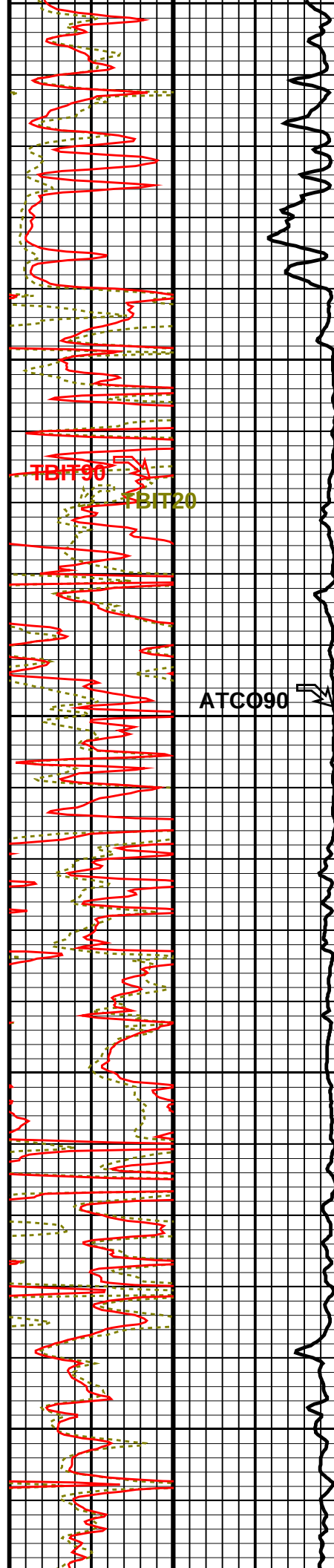


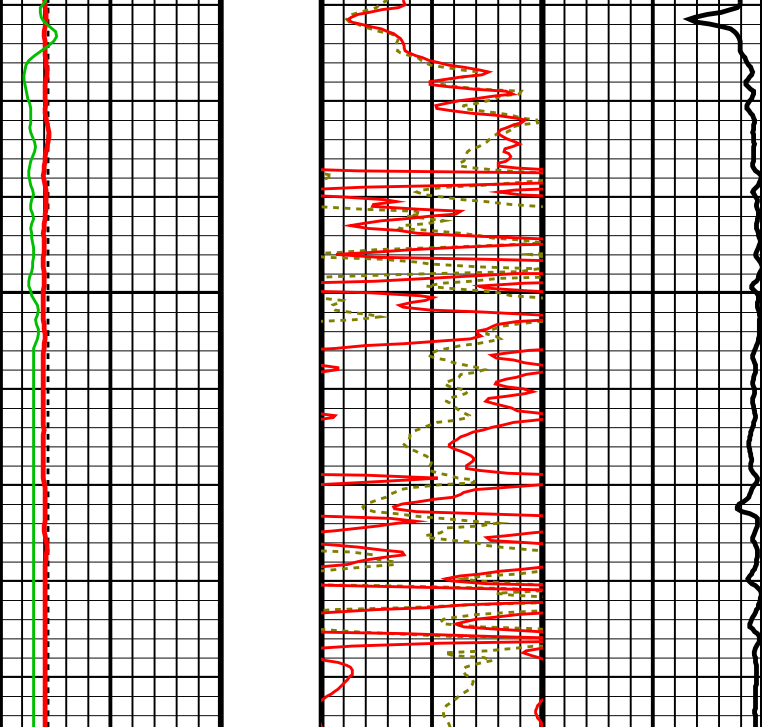






8400
8500
8600





Bit Size (BS) (IN)	AIT 90 Inch Investigation Conductivity (ATCO90)	
4 14	1000	0
Gamma Ray (GR) (GAPI)	TBI 20 Inch Investigation (TBIT20)	
	0	50
Caliper (CALI) (IN)	TBI 90 Inch Investigation (TBIT90)	
	0	50

Format: TB_1INCH_RES		Vertical Scale: 5" per 100'		Graphics File Created: 28-May-2014 22:09	
OP System Version: 19C2-270					
TBT	SRPC-5298-ThruBit_b				
Input DLIS Files					
ThruBit_006PUP		FN:5	28-May-2014 22:03	8695.2 FT	2398.0 FT