







October 11, 2011

Mr. Steve Bond  
Kansas Corporation Commission  
210 E. Frontview, Suite A  
Dodge City, KS 67801

Re: Temporary Flare Permit  
Britt 1-20H  
API 077-21746-01-00  
Harper County, Kansas  
Sec 20, T34S, R6W

Dear Mr. Bond:

SandRidge has filed an online application for a flare permit for the above captioned well. We are fully committed to flaring this well in accordance with safety and operational policies required by the KCC as well as our own internal policies. We will meter and record all volumes, including liquids and gas, which are produced by this well. In all wells that SandRidge brings online, there is contract flow testing personnel responsible for monitoring flow rates, pressures, volumes and activity. It is our practice to keep a flow hand on location 24/7 until all utilities, equipment, and safety mechanisms are in place. Please find attached the report that our flow hands are responsible for maintaining every day they are on location. You will see that all pressures, rates, and volumes are closely monitored and recorded. These records are kept on file indefinitely.

The Britt 1-20H has recently reached it's TD, and we anticipate the completion process to begin October 21<sup>st</sup>. We would like to have a permit to flare in place effective October 29<sup>th</sup>. Our plans are to have this well tied into a sales line; however, there is currently no line in place and it will take some time to complete as the nearest line with capacity belongs to White Cliff and is 9.5 miles from location. We would like to be able to bring this well online as soon as our completion work is done. Flaring would be necessary until the sales line is in place. Because of the long lay and the resulting high cost of installation, we would like to get a test (gas) on the well before beginning the project.

If there is any additional information SandRidge can provide at this time to help in the processing and approval of our flare permit, please feel free to contact me. We appreciate any consideration you may afford us in our endeavor.

Sincerely,

Forrest Walton  
Sr. Completions Engineer  
SandRidge Energy







KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 34192  
Name: SandRidge Exploration and Production LLC  
Address 1: 123 ROBERT S. KERR AVE  
Address 2: \_\_\_\_\_  
City: OKLAHOMA CITY State: OK Zip: 73102 6406  
Contact Person: Karen Sharp  
Phone: ( 405 ) 429-5745  
CONTRACTOR: License # 34464  
Name: Lariat Services, Inc.  
Wellsite Geologist: Tammy Alcorn  
Purchaser: NCRA

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
09/12/2011    10/01/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-077-21746-01-00  
Spot Description: \_\_\_\_\_  
SW SE SW SW Sec. 20 Twp. 34 S. R. 6  East  West  
200 Feet from  North /  South Line of Section  
760 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Harper  
Lease Name: Britt Well #: 1-20H  
Field Name: \_\_\_\_\_  
Producing Formation: Mississippi Lime  
Elevation: Ground: 1313 Kelly Bushing: 1324  
Total Depth: 9060 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 747 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls  
Dewatering method used: \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: \_\_\_\_\_  
Title: \_\_\_\_\_ Date: \_\_\_\_\_

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: SandRidge Exploration and Production LLC Lease Name: Britt Well #: 1-20H  
 Sec. 20 Twp. 34 S. R. 6  East  West County: Harper

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  Log Formation (Top), Depth and Datum  Sample  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Electric Log Submitted Electronically  Yes  No  
 (If no, Submit Copy)

Name	Top	Datum
Oswego Limestone	4260	
Cherokee Group	4563	
Verdigris Limestone	4614	
Mississippi Lime	4940	

List All E. Logs Run:  
**Attached**

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report All strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In-O.D.)	Weight lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	9.63	36	747	J-55	50	
Intermediate	8.75	7	29	5190	N-80	250	
Prod Liner	6.03	4.5	11.6	9055	P-110	450	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Britt 1-20H
Doc ID	1064463

All Electric Logs Run

Induction
Gamma Ray
Compensated Neutron/Density
Micro w/PE

DRAFT





Current

Spud:

Wellbore Schematic

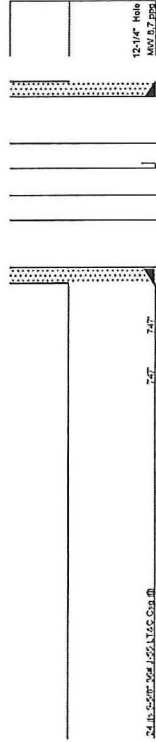
Field: Waldron West  
 County: Harper  
 State: Kansas  
 Well: Britt 1-20H  
 Location: SEC 20, TWP 34S, RGE 6W  
 KB: 1330  
 GL: 1316

API No. 15-077-2174601

Original Completion	
Current	
Proposed	X

Well Bore Data

MD	TVL
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24 in. 5.50\"/>

KB	Length	Bottom
Jb. 2-7/8\"/>	0.0	0.0
GLV #1	0.0	0.0
GLV #2	0.0	0.0
GLV #3	0.0	0.0
GLV #4	0.0	0.0
GLV #5	0.0	0.0
GLV #6	0.0	0.0
GLV #7	0.0	0.0
GLV #8	0.0	0.0
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GLV #11	0.0	0.0
GLV #12	0.0	0.0
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GLV #314	0.0	0.0
GLV #315	0.0	0.0
GLV #316	0.0	0.0
GLV #317	0.	



**ARRAY INDUCTION  
GAMMA RAY  
MEMORY LOG**

Company SANDRIDGE ENERGY  
Well BRITT 1-20H  
Field WALDRON WEST  
County HARPER  
State KANSAS

Company SANDRIDGE ENERGY  
Well BRITT 1-20H  
Field WALDRON WEST  
County HARPER State KANSAS

Location: API #: 15-077-21746  
SHL: 200' FSL & 760' FWL  
BHL: 330' FNL & 760' FWL  
SEC 20 TWP 34S RGE 6W  
Permanent Datum G.L. Elevation  
Log Measured From K.B. 14' ABOVE PERM DATUM  
Drilling Measured From K.B.

Other Services  
THRUBIT  
PORTAL BIT  
Elevation  
K.B. 1330'  
D.F. 1330'  
G.L. 1316'

Date	2 OCTOBER 2011
Run Number	ONE
Depth Driller	9060
Depth Logger	9026
Bottom Logged Interval	9016
Top Log Interval	5185
Casing Driller	7.0" @ 5190'
Casing Logger	5185
Bit Size	6.125
Type Fluid in Hole	WBM
Density / Viscosity	8.4 / 27
pH / Fluid Loss	11.0 / NA
Source of Sample	MUD PIT
Rm @ Meas. Temp	0.34 ohms @ 65 degf
Rmf @ Meas. Temp	0.25 ohms @ 65 degf
Rmc @ Meas. Temp	0.43 ohms @ 65 degf
Source of Rmf / Rmc	CALCULATED
Rm @ BHT	0.16 ohms @ 146 degf
Time Circulation Stopped	10:45 PM 10-1-2011
Time Logger on Bottom	11:30 PM 10-1-2011
Maximum Recorded Temperature	146 degf
Equipment Number	T005
Location	OKC. OK
Recorded By	DENGLER
Witnessed By	JACKIE KENNEDY TAMMY ALCORN

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

**Comments**

SERVICE: HORIZONTAL PUMP DOWN MEMORY BIT DEPTH: 8972 LOG TO: 5185  
ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST  
LIMESTONE MATRIX, 2.71 g/cc, USED FOR POROSITY MEASUREMENTS  
TOOLS RAN WITH DECENTRALIZER AND SWIVEL  
TBHV REPRESENTS TOTAL BOREHOLE VOLUME, ft<sup>3</sup>  
ABHV REPRESENTS ANNULAR BOREHOLE VOLUME, ft<sup>3</sup>, CALCULATED FOR 4.5" CASING  
USED RIGMINDER WITH RIGSENSE TO ACQUIRE LOG DEPTH  
CORRELATED TO PIPE TALLY PROVIDED BY CUSTOMER

RIG: KEEN 18  
CREW: J. DENGLER, J. HIRSCHLER, R. DENTON

Service Ticket No. 764      API No. 15-077-21746      PGM Ver

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

**EQUIPMENT DATA**

Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	PS26T	Serial No.	ENP3N	Serial No.	PS41D	Serial No.	PS15R
Model No.	GAMMA RAY	Model No.	NEUTRON	Model No.	DENSITY	Model No.	INDUCTION
Diameter	2.125"	Diameter	2.125"	Diameter	2.125"	Diameter	2.125"

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments		
No.	From	To	Pressure	Ft/Min			
ONE	9026	5185		30			

	GAMMA RAY		NEUTRON		DENSITY		INDUCTION	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	150	30	-10	30	-10	.2	2000

DIRECTIONAL INFORMATION

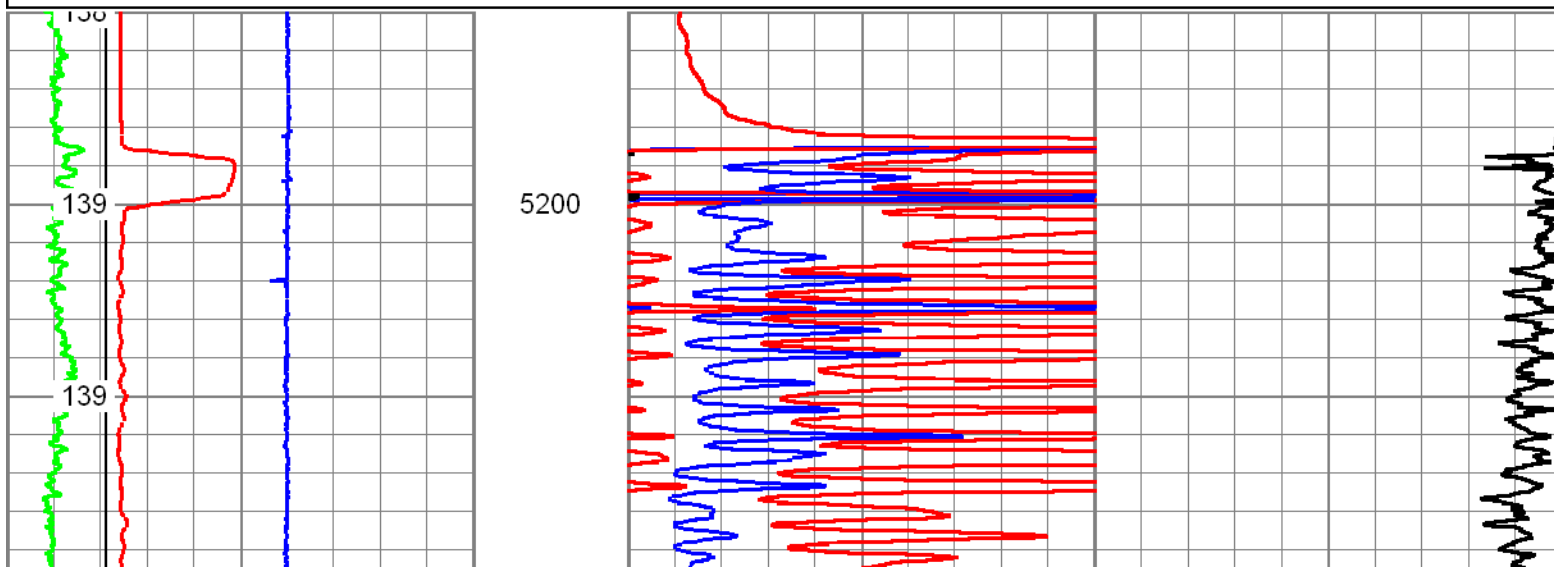
Maximum Deviation	93.0	deg. @	5743.0	KOP	3782	
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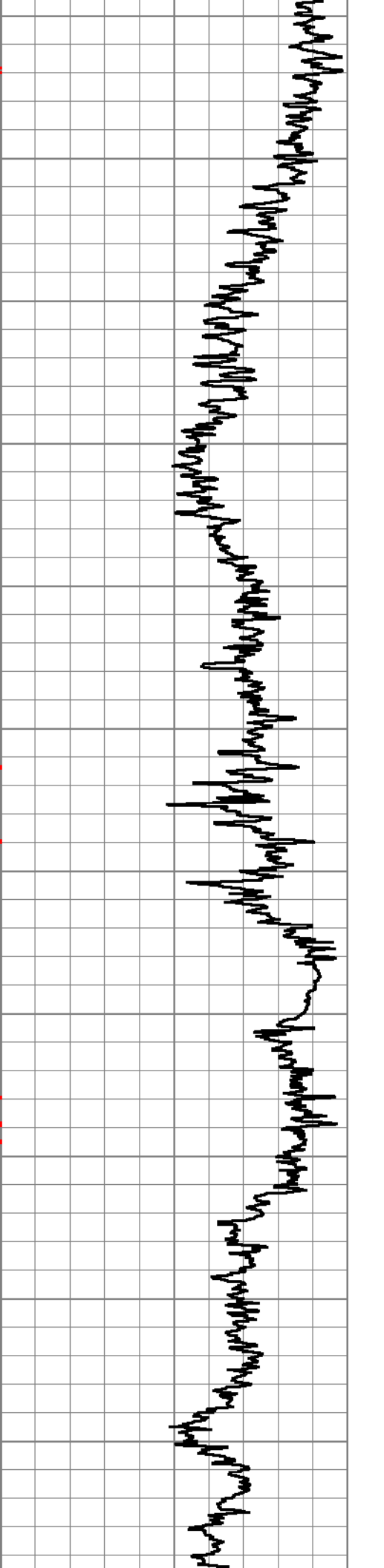
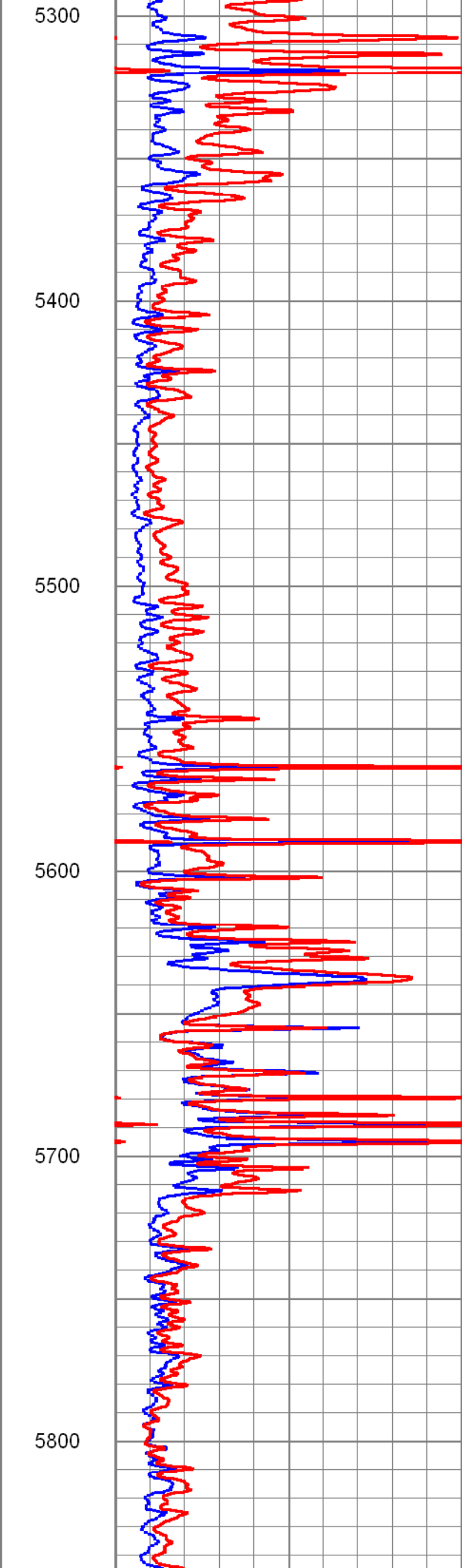
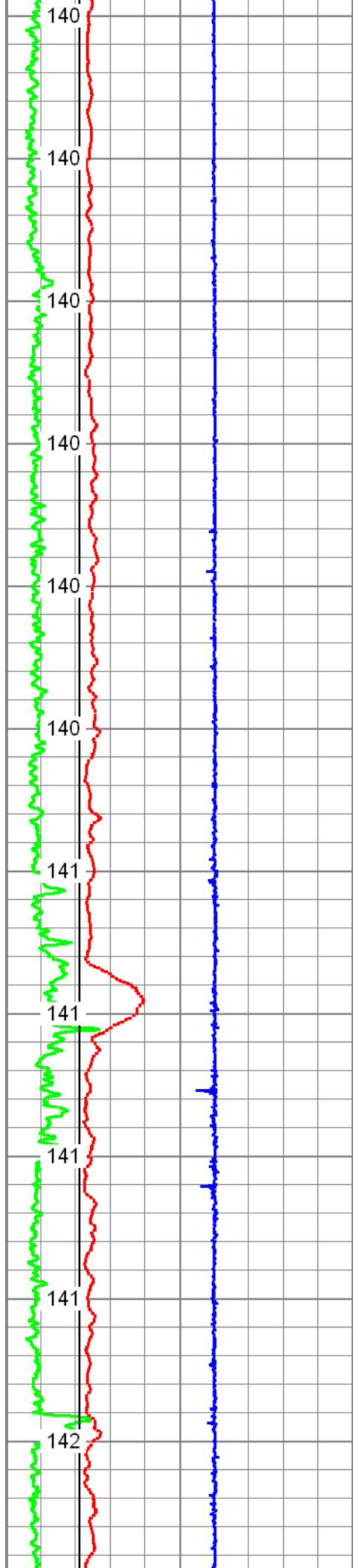
# MAIN PASS

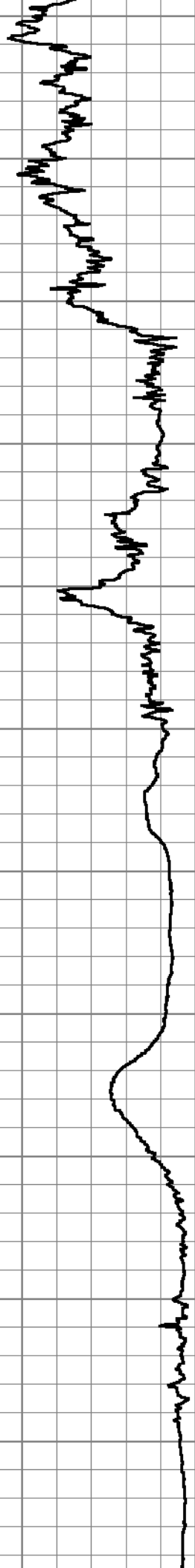
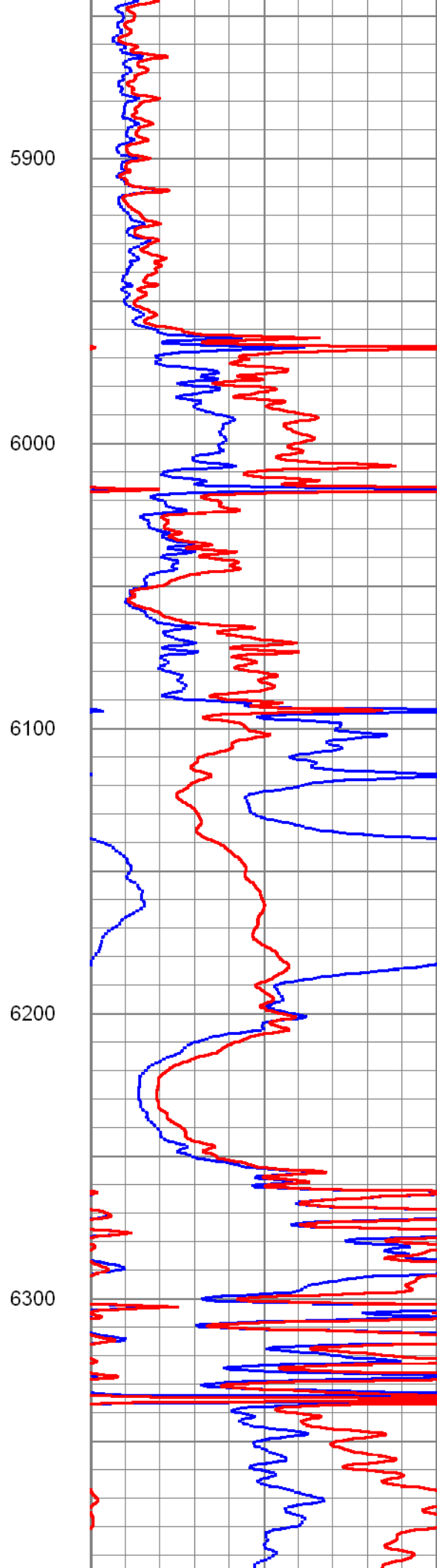
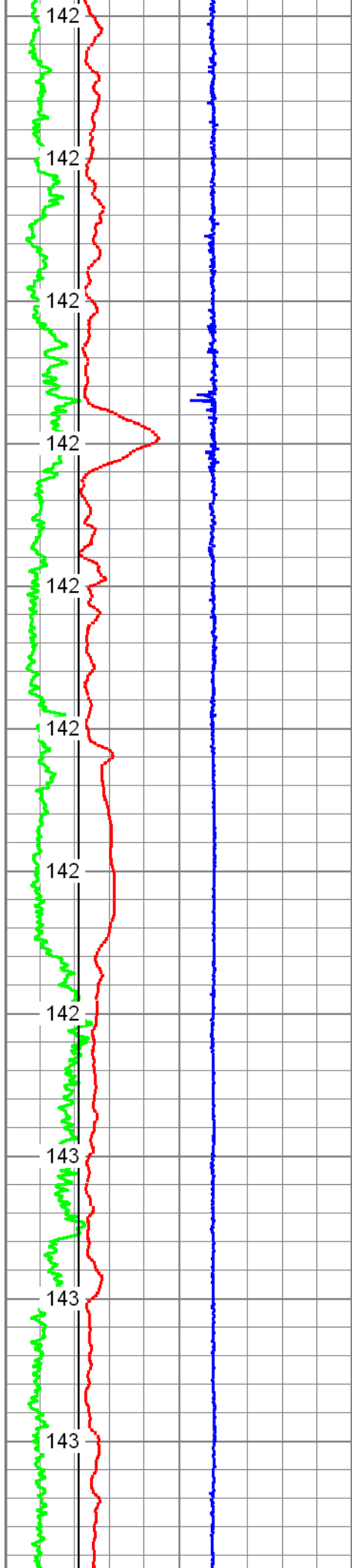
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 Dataset Pathname: proc1/pass1.2  
 Presentation Format: chespk2r  
 Dataset Creation: Sun Oct 02 08:01:47 2011  
 Charted by: Depth in Feet scaled 1:600

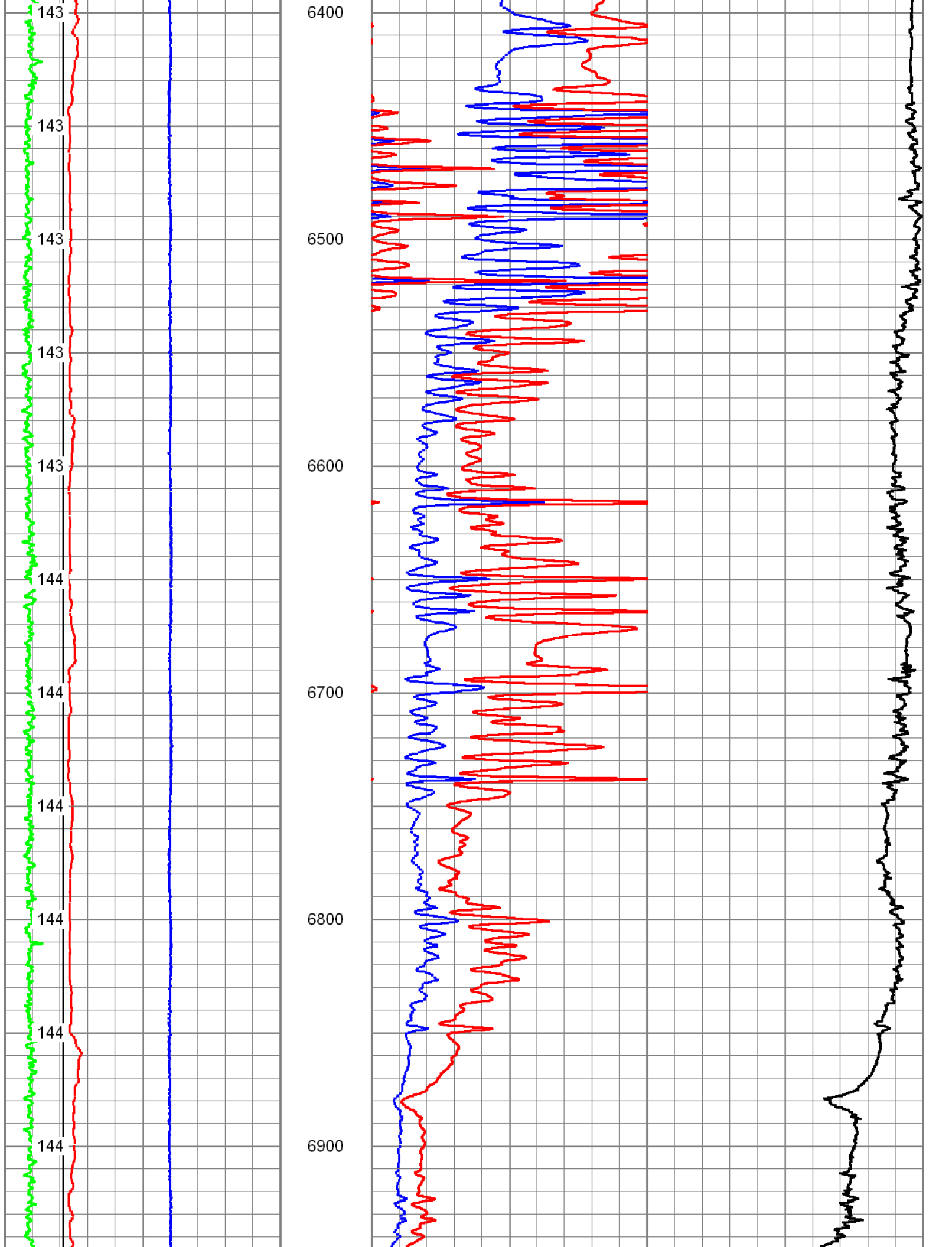
0	GR (GAPI)	150	50	20in 2ft Res (Ohm-m)	500	
4	DCAL (in)	14	50	90in 2ft Res (Ohm-m)	500	
-5	ACCY	5	1000	DEEP COND (Ohm-m)		0
4	BOREID (in)	14	0	20in 2ft Res (Ohm-m)	50	
GRTEMP (degF)			0	90in 2ft Res (Ohm-m)	50	



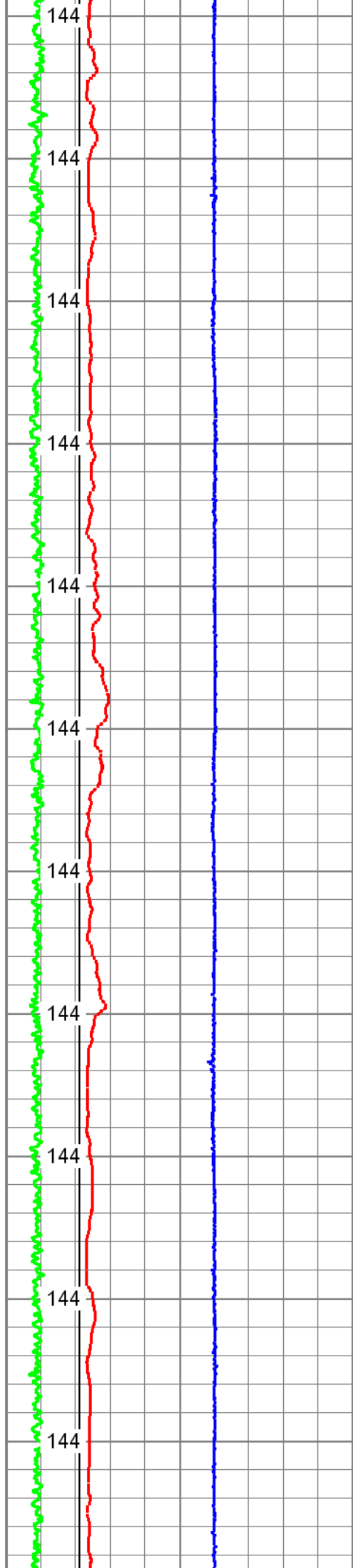












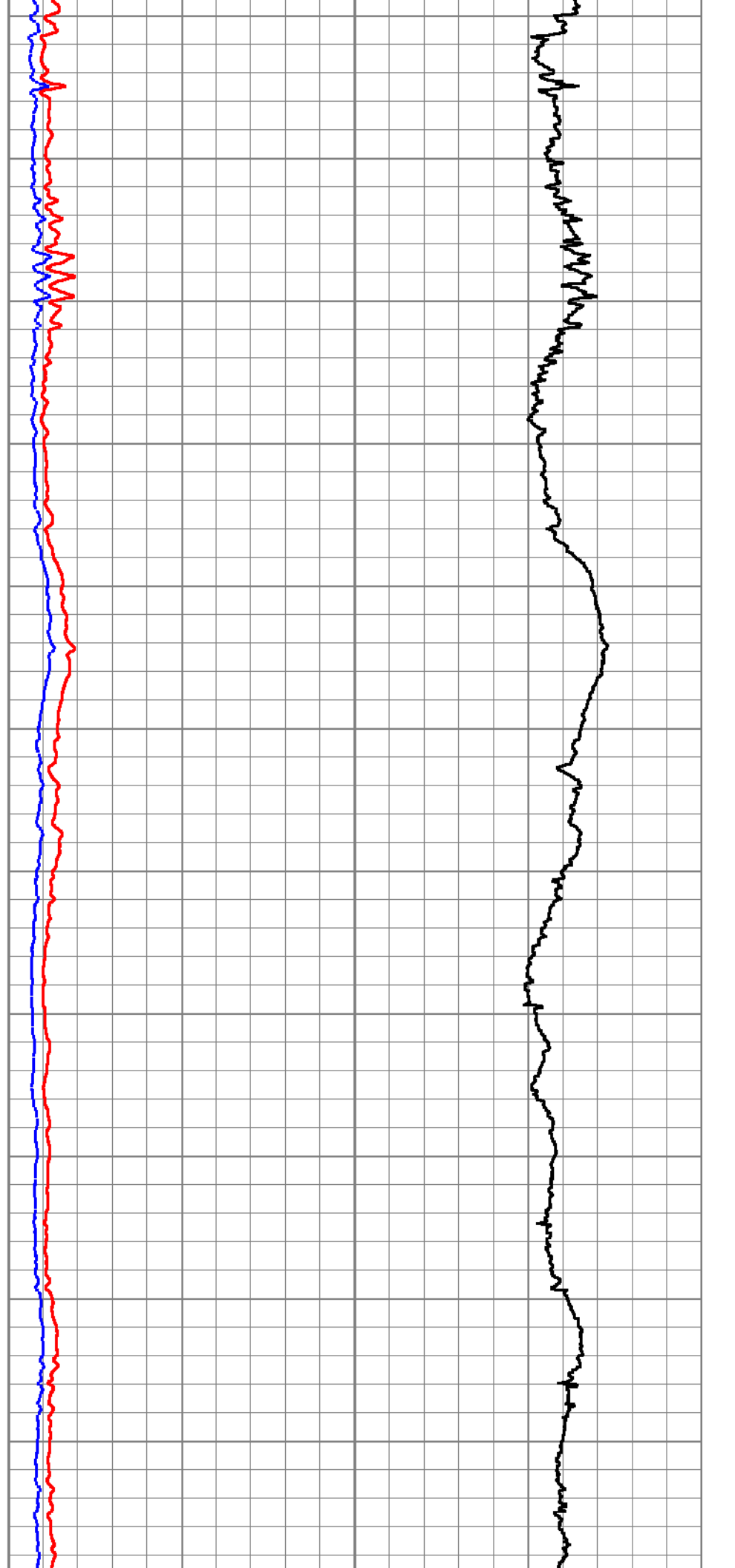
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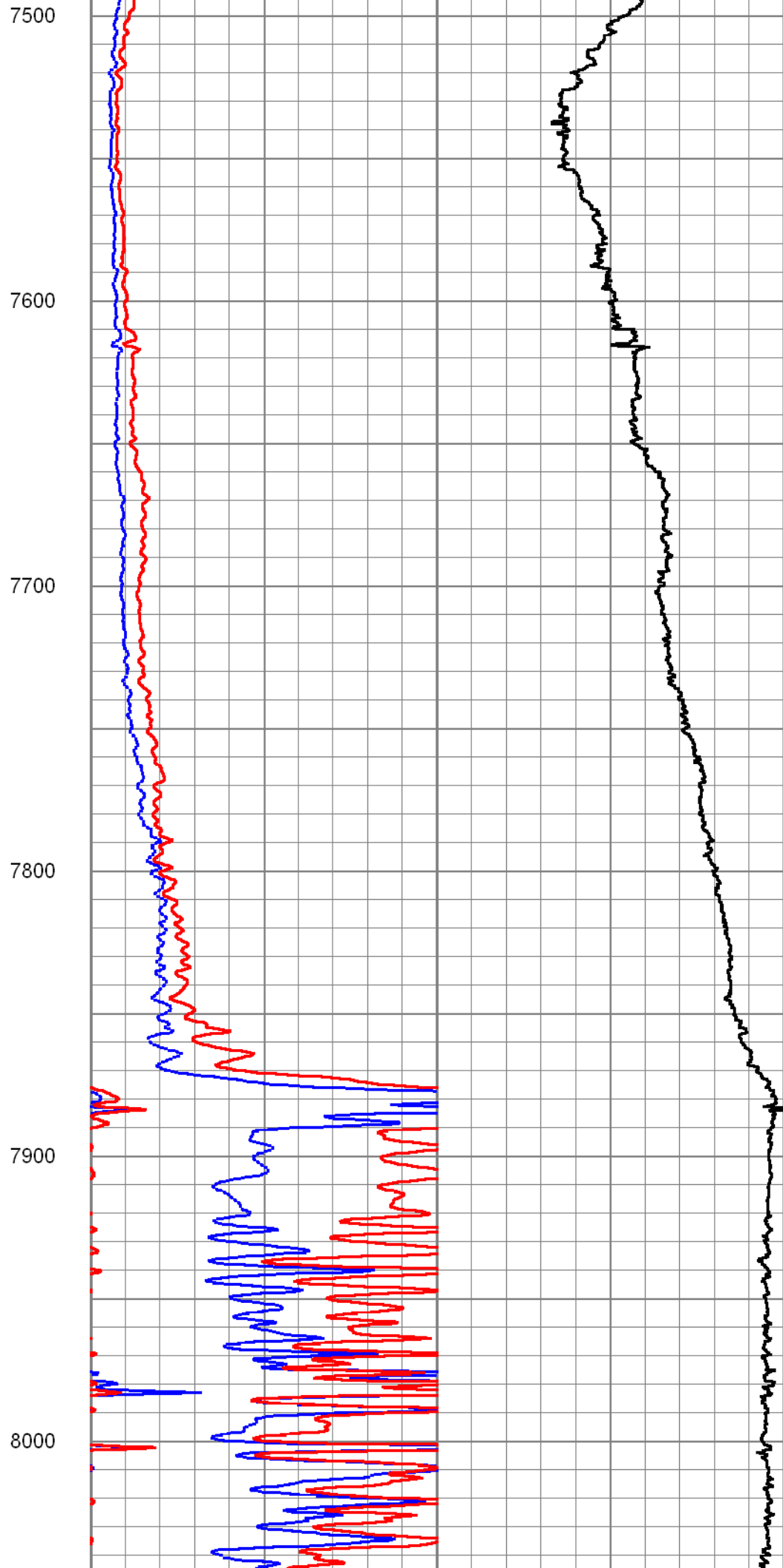
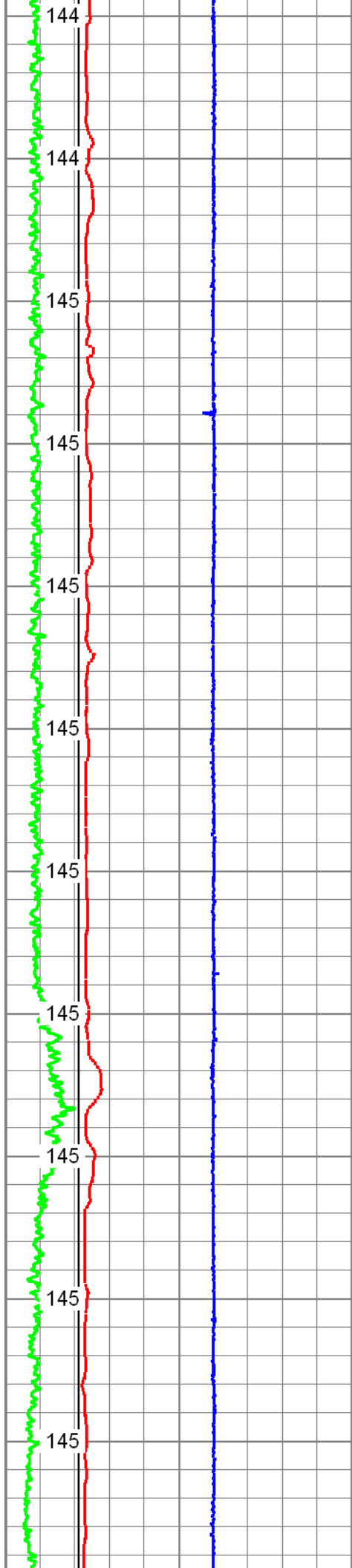
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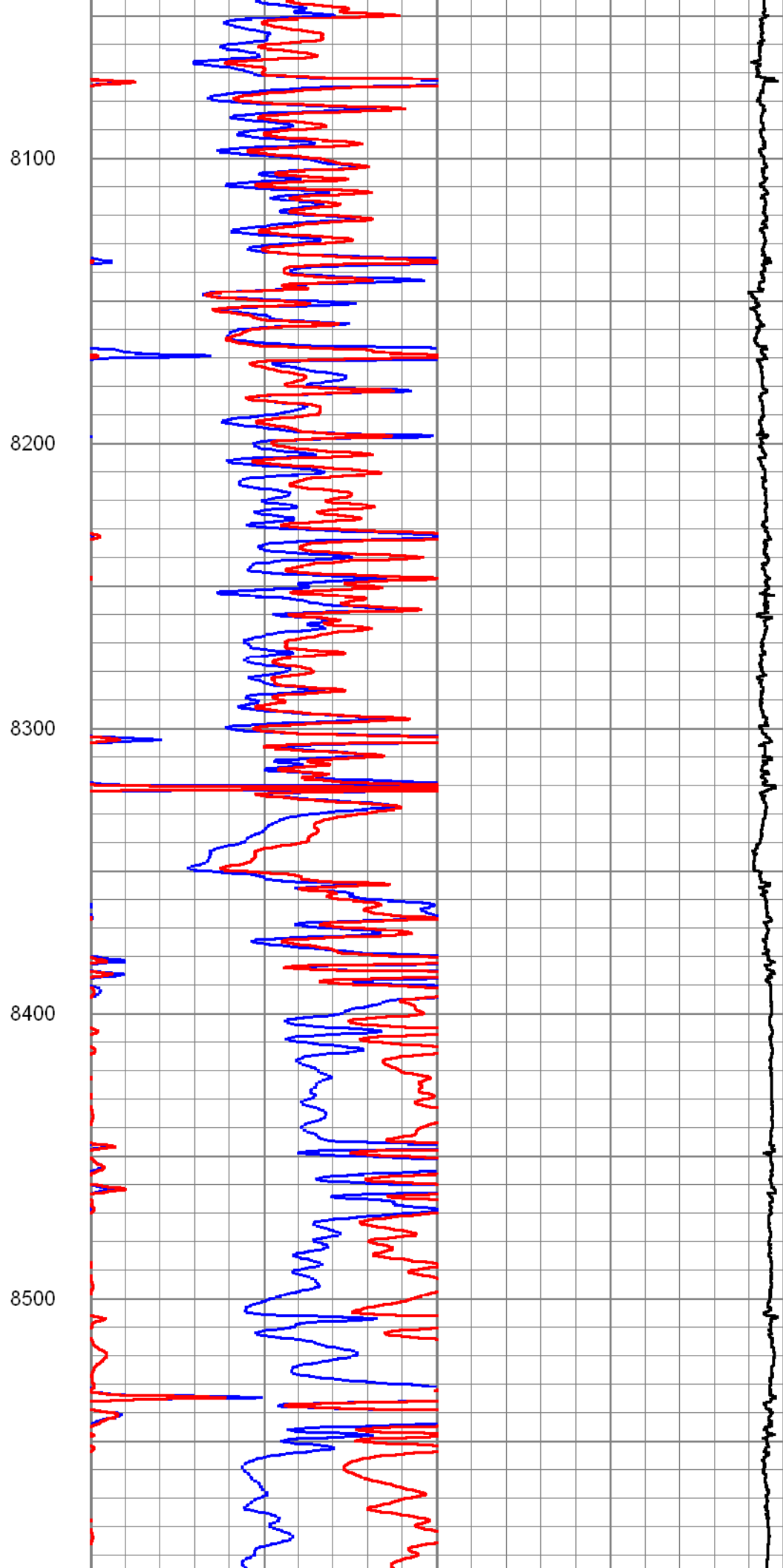
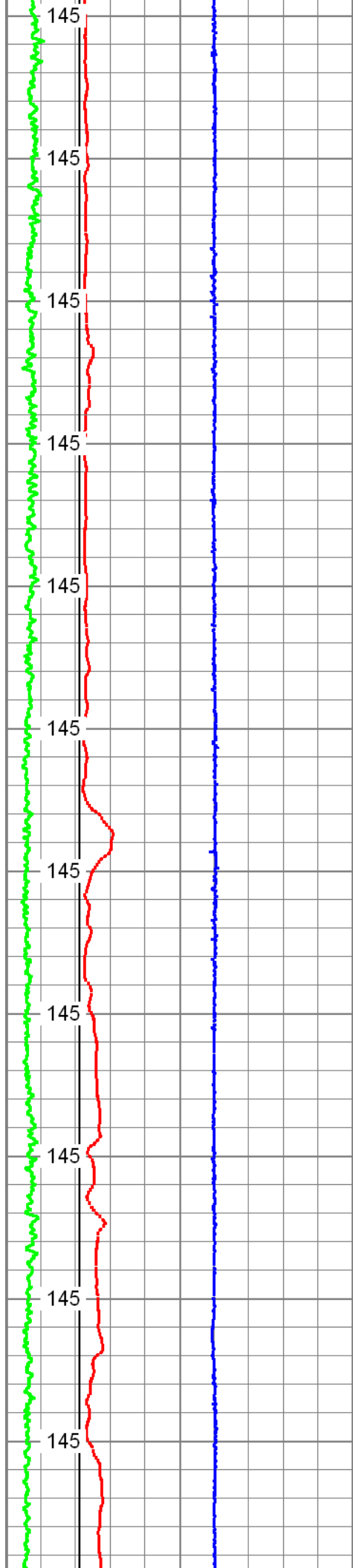
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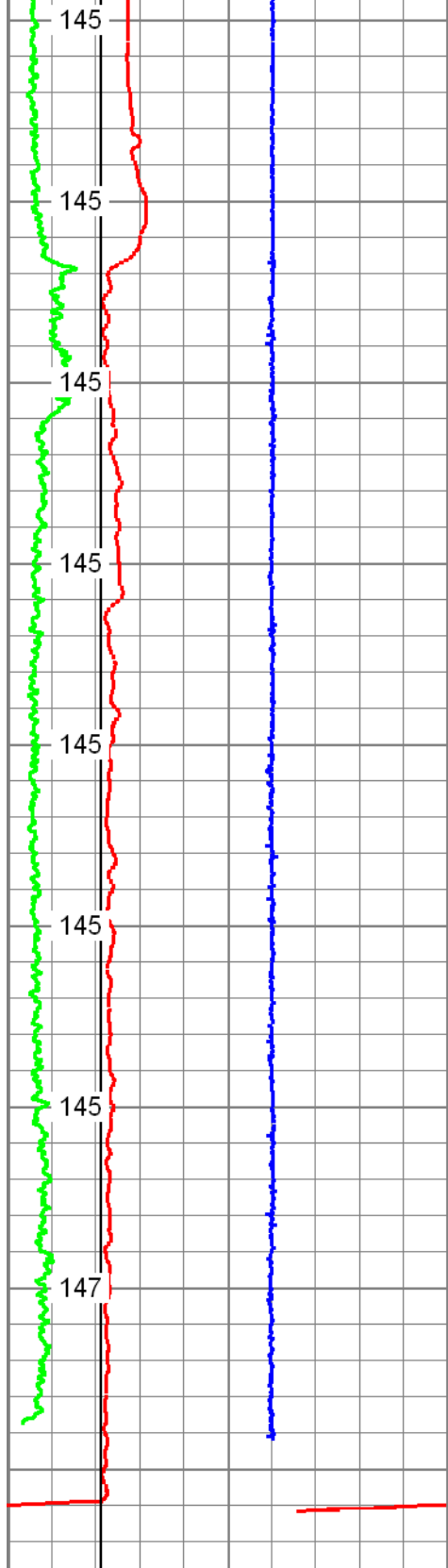
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7400



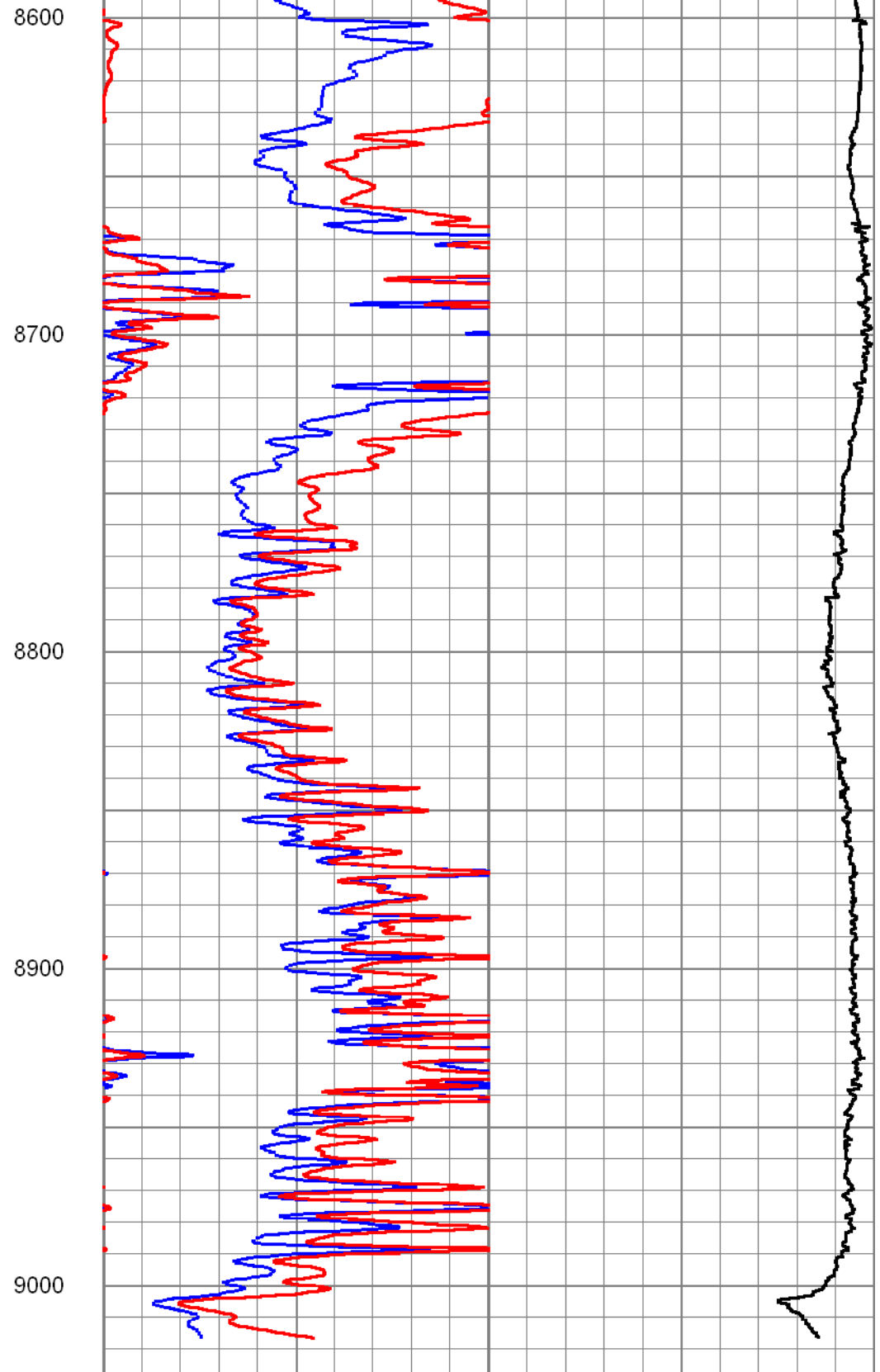






0	GR (GAPI)	150
4	DCAL (in)	14
-5	ACCY	5
4	BOREID (in)	14

GRTEMP  
(degF)



50	20in 2ft Res (Ohm-m)	500
50	90in 2ft Res (Ohm-m)	500
1000	DEEP COND (Ohm-m)	0
0	20in 2ft Res (Ohm-m)	50
0	90in 2ft Res (Ohm-m)	50

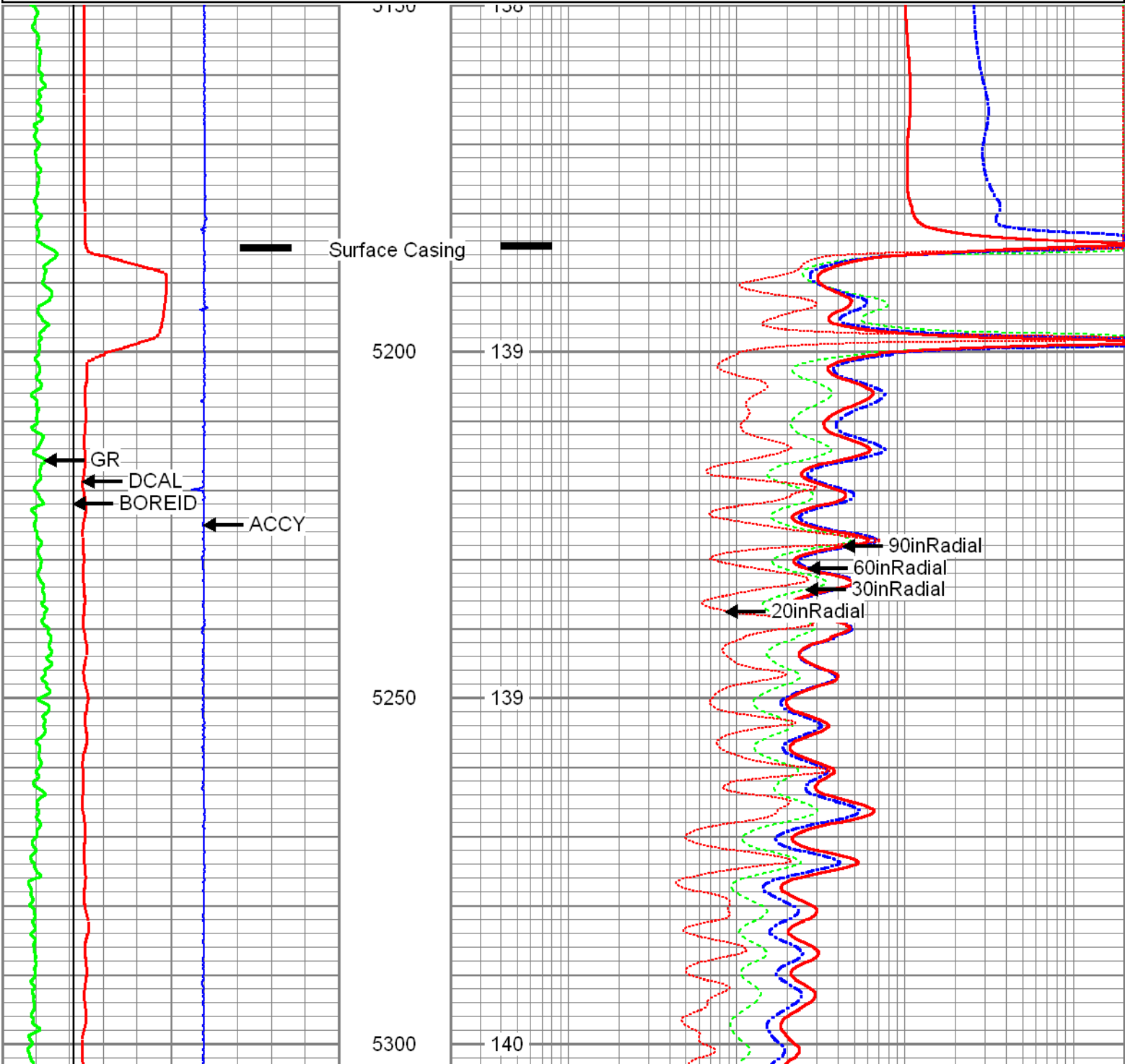


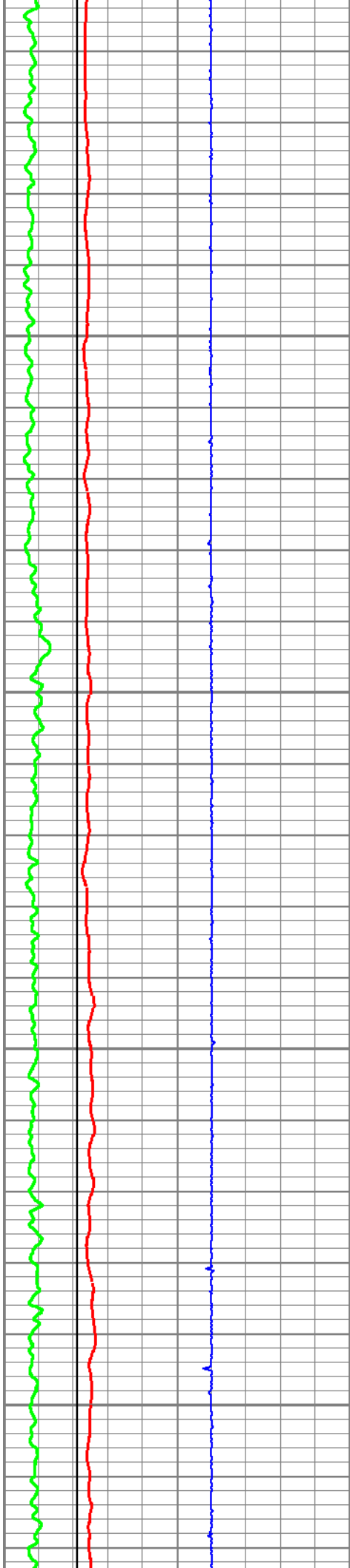
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 Dataset Pathname: proc1/pass1.2  
 Presentation Format: CHESPK~3  
 Dataset Creation: Sun Oct 02 08:01:47 2011  
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150
4	BOREID (in)	14
4	DCAL (in)	14
-5	ACCY	5

0.2	30inRadial (Ohm-m)	2000
0.2	60inRadial (Ohm-m)	2000
0.2	90inRadial (Ohm-m)	2000
0.2	20inRadial (Ohm-m)	2000

GRTEMP (degF)
------------------





5350

140

5400

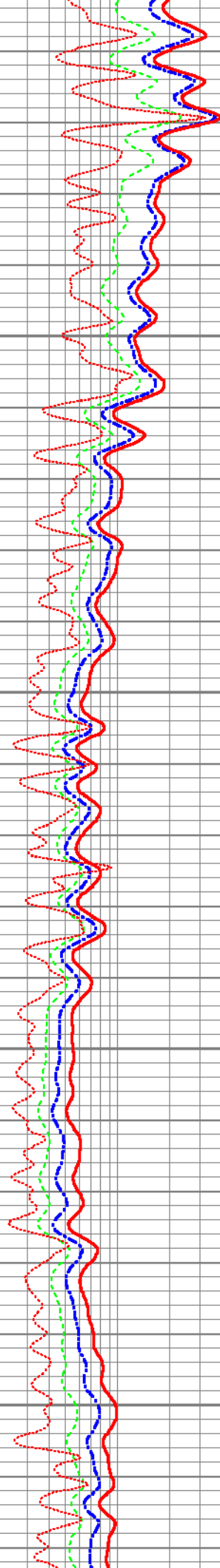
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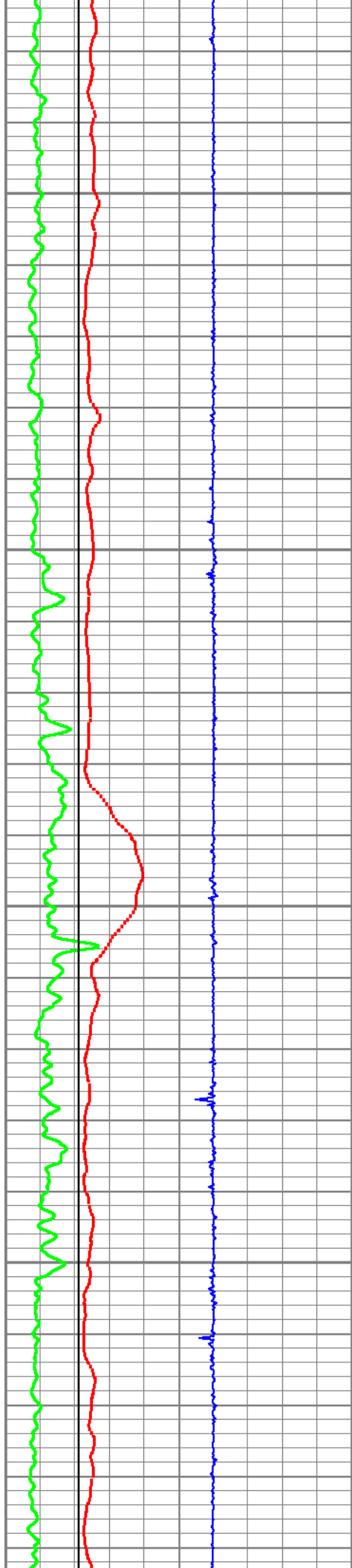
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140

5500

140





5550

140

5600

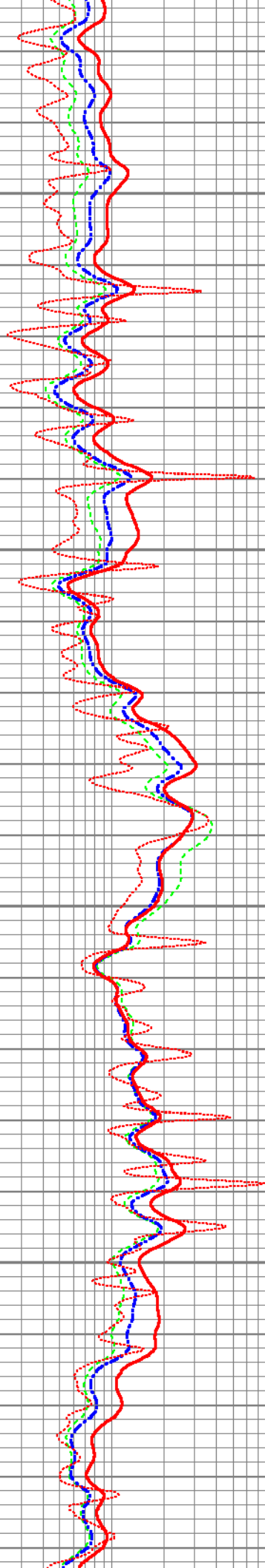
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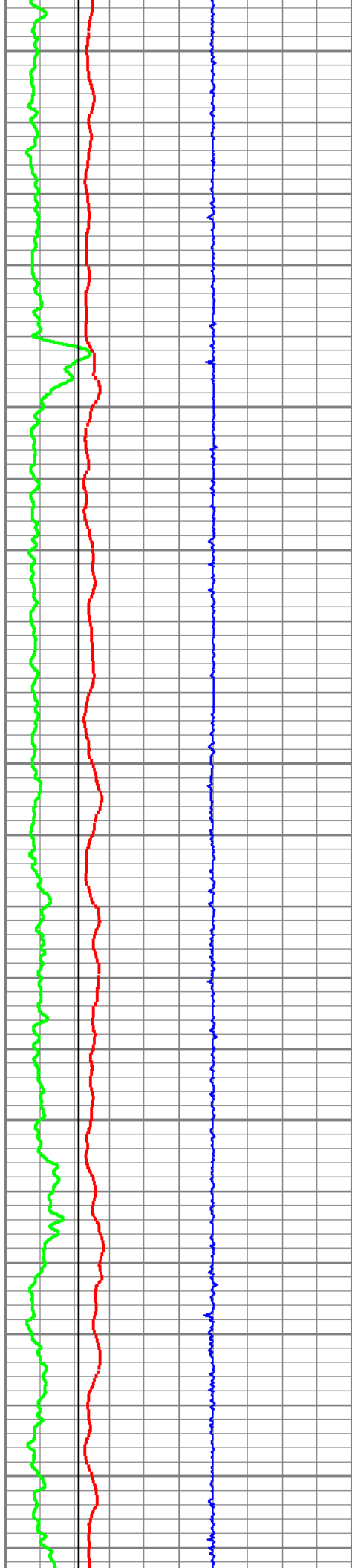
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141

5700

141





5750

141

5800

142

5850

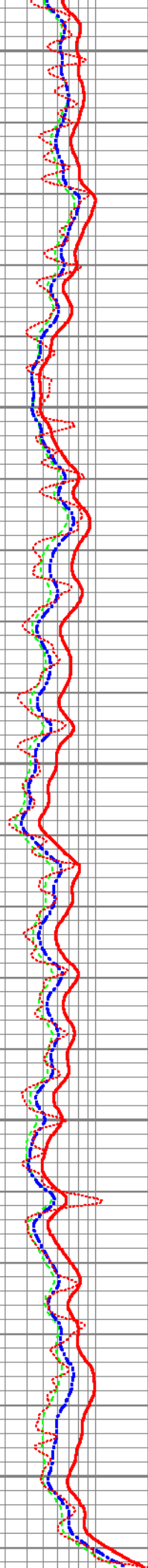
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5900

142

5950

142







6000

142

6050

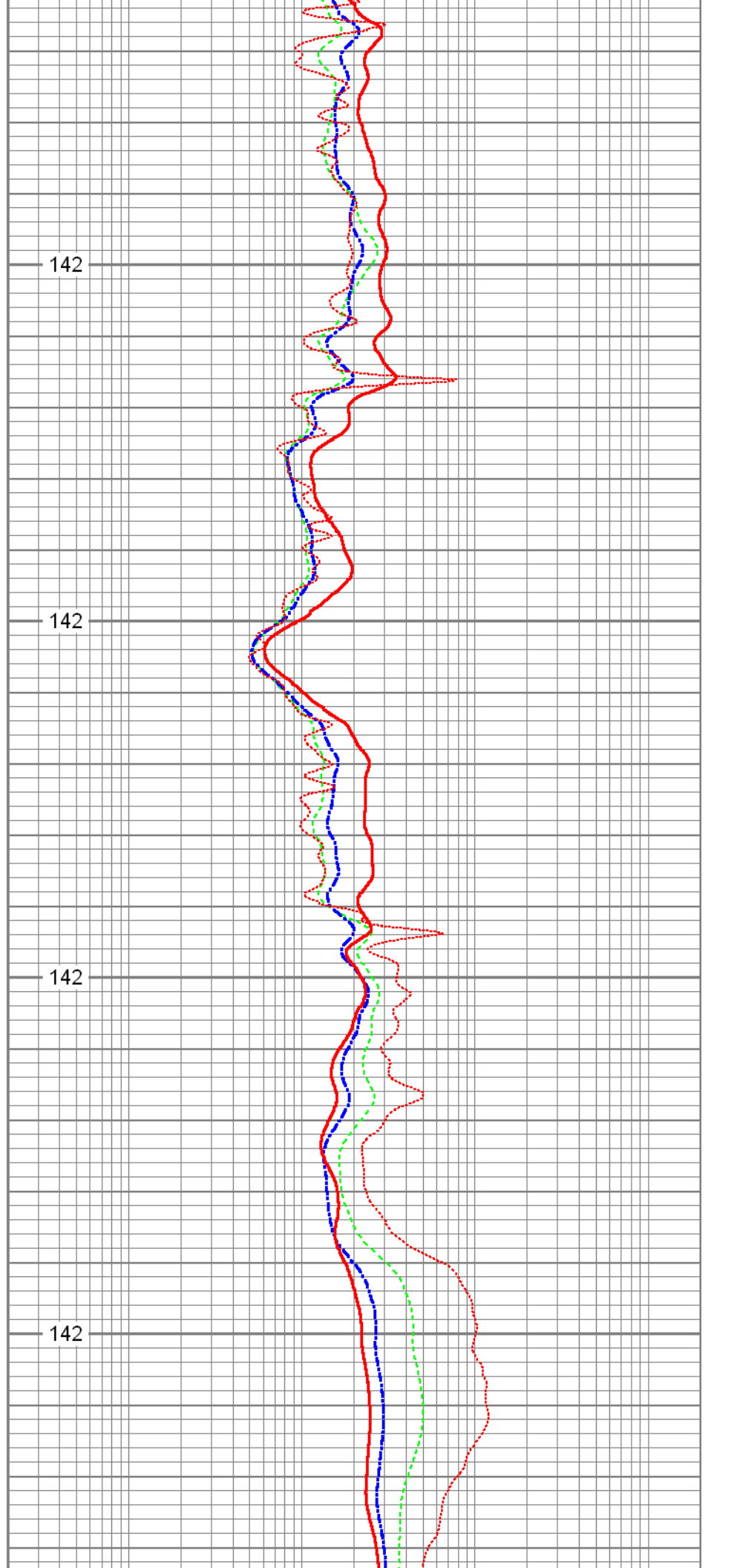
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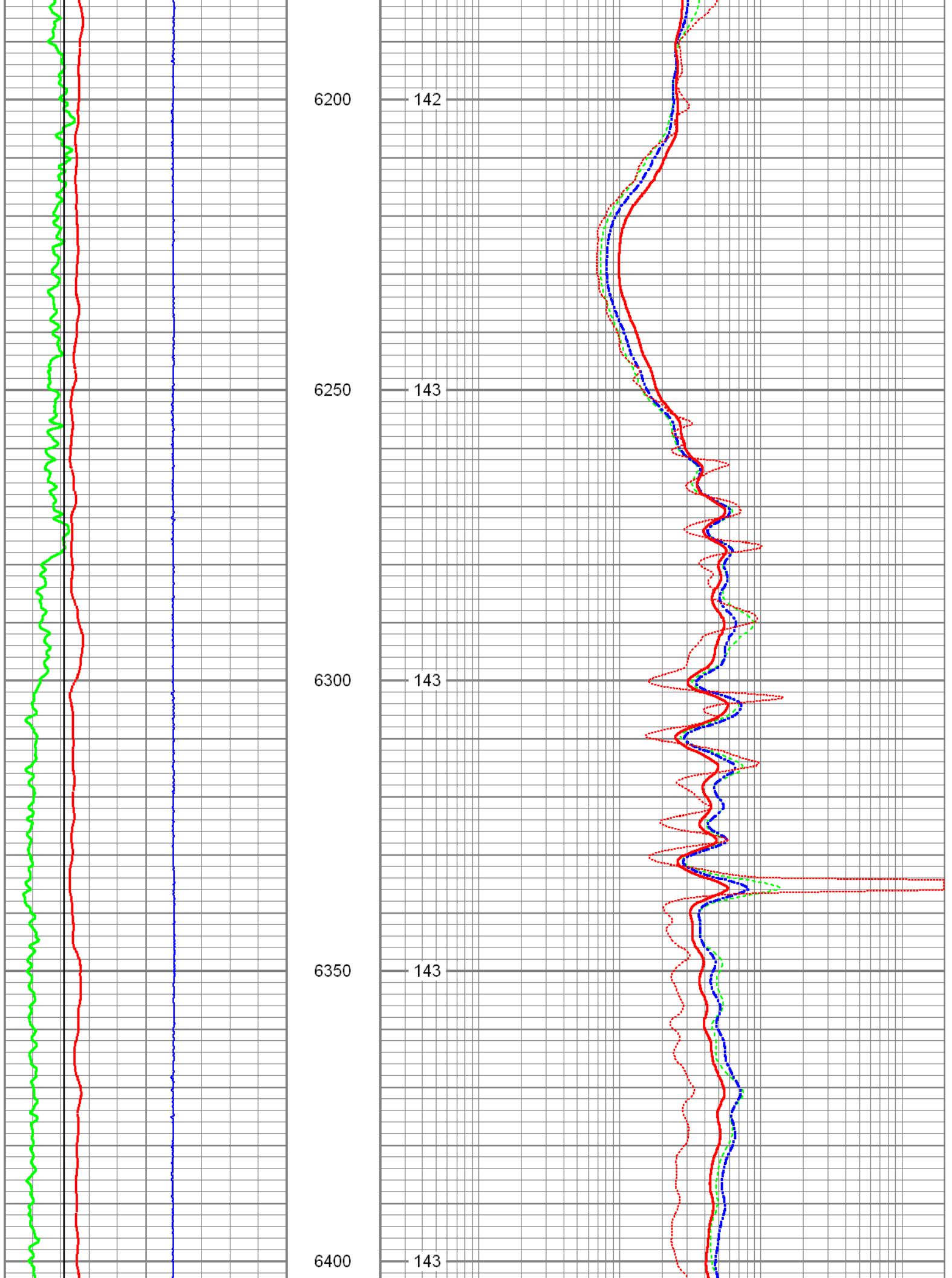
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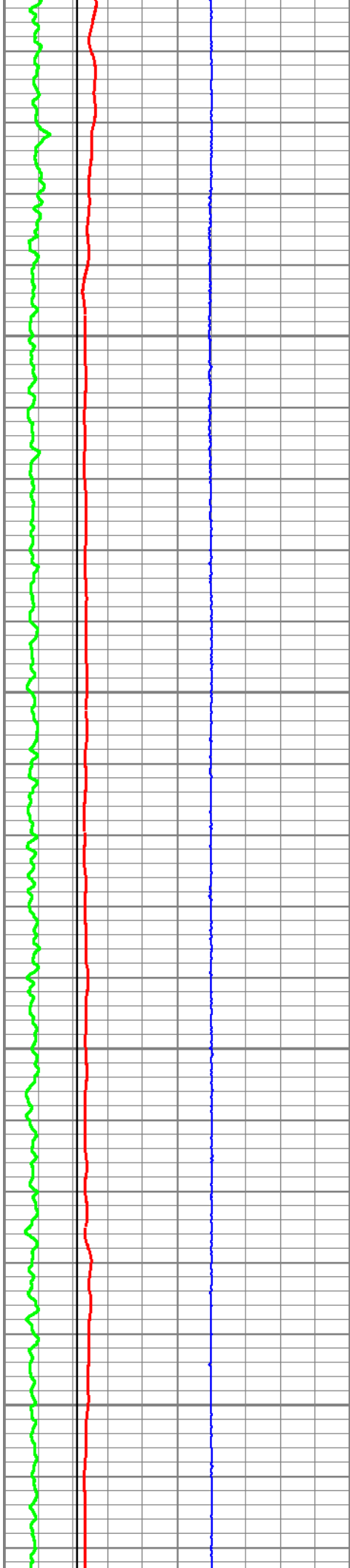
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6150

142







6450

143

6500

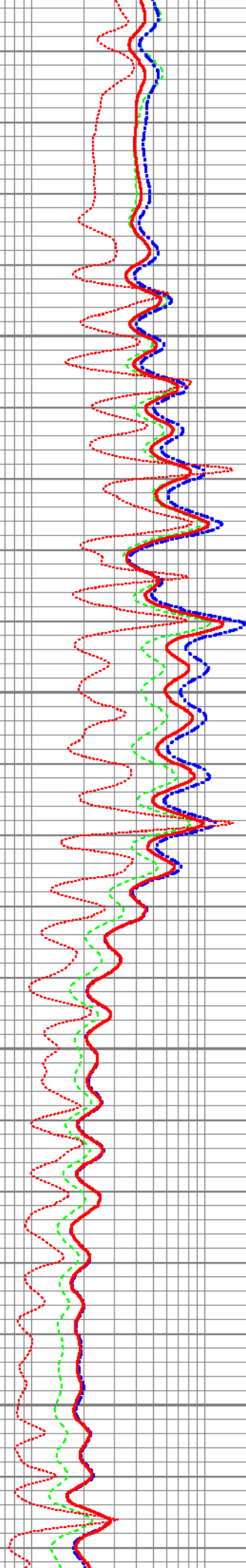
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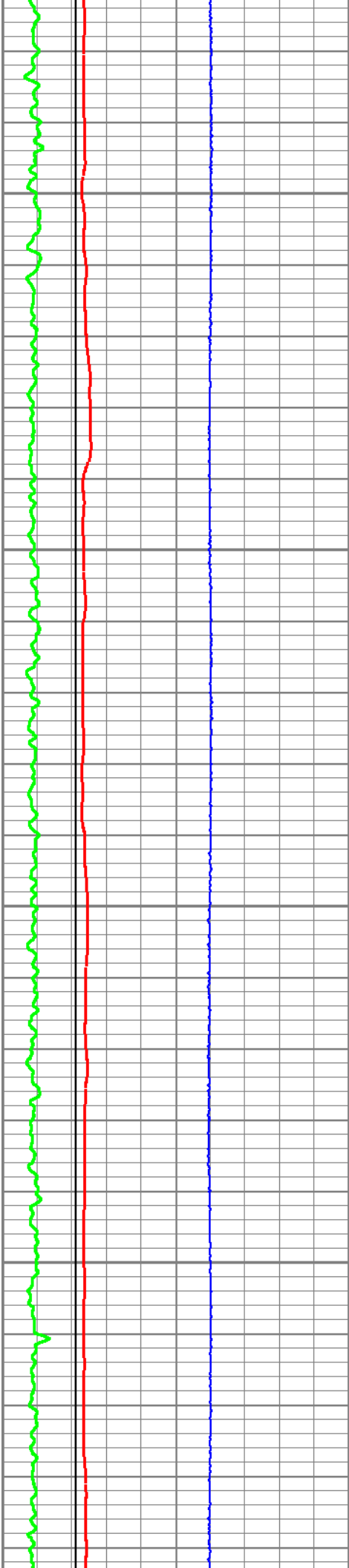
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143

6600

143





6650

144

6700

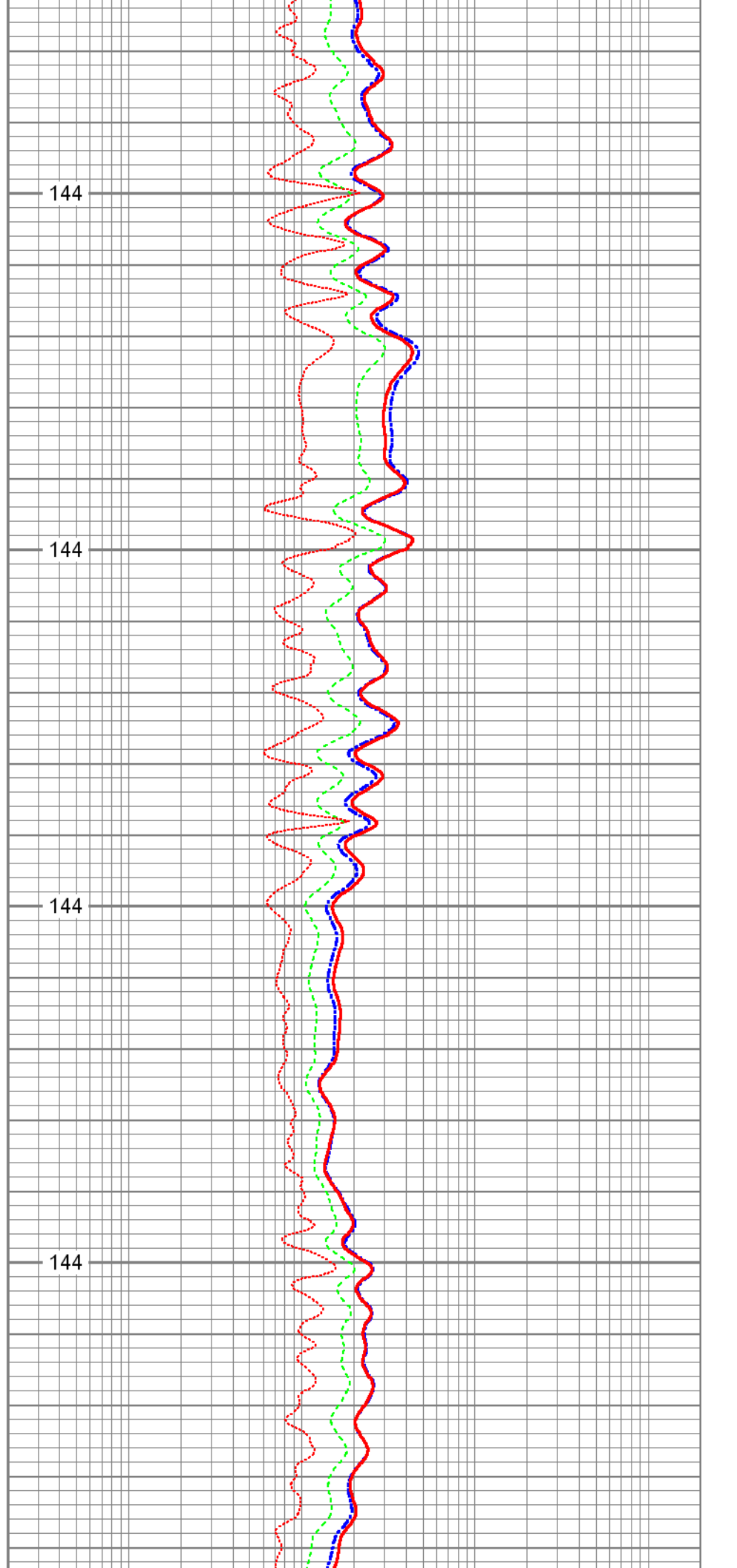
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6750

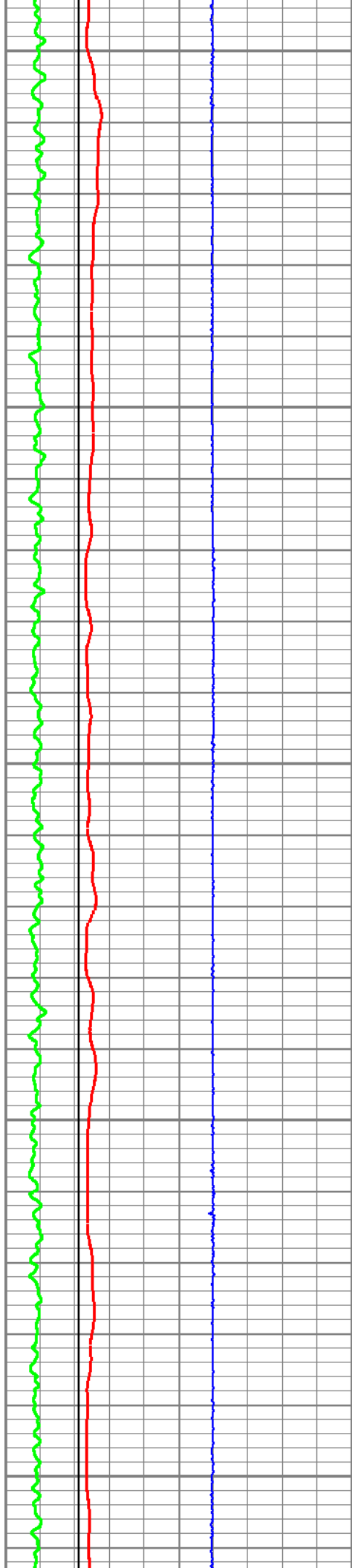
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6800

144







6850

144

6900

144

6950

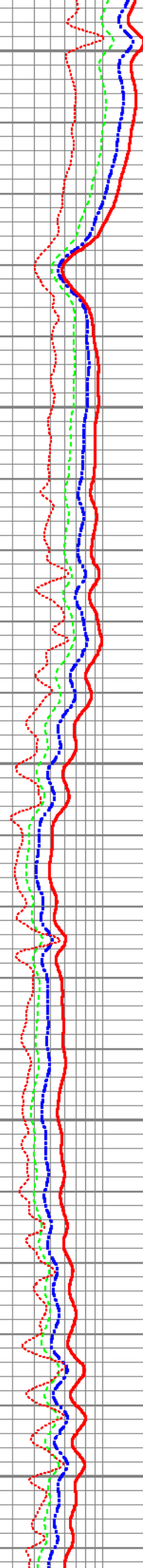
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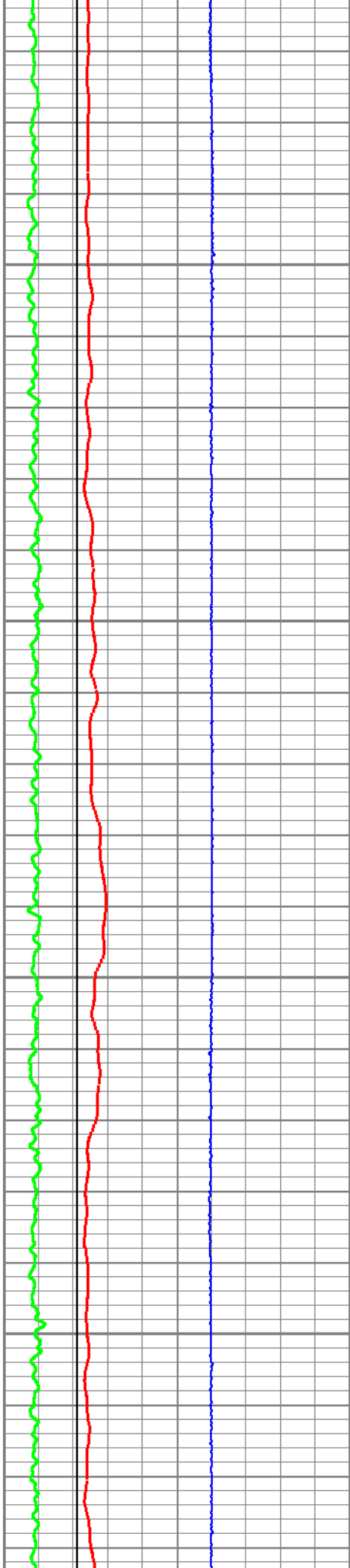
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144

7050

144





7100

144

7150

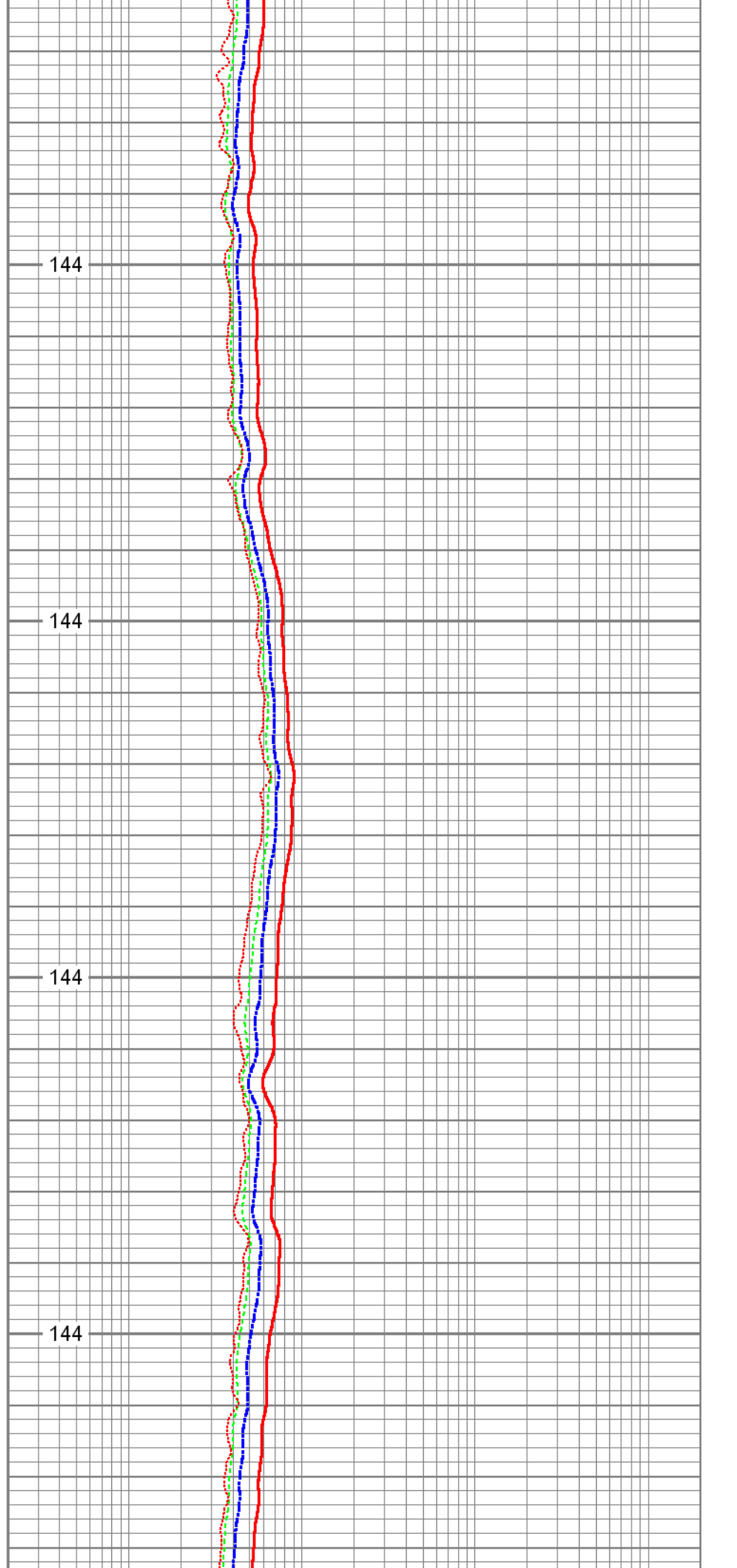
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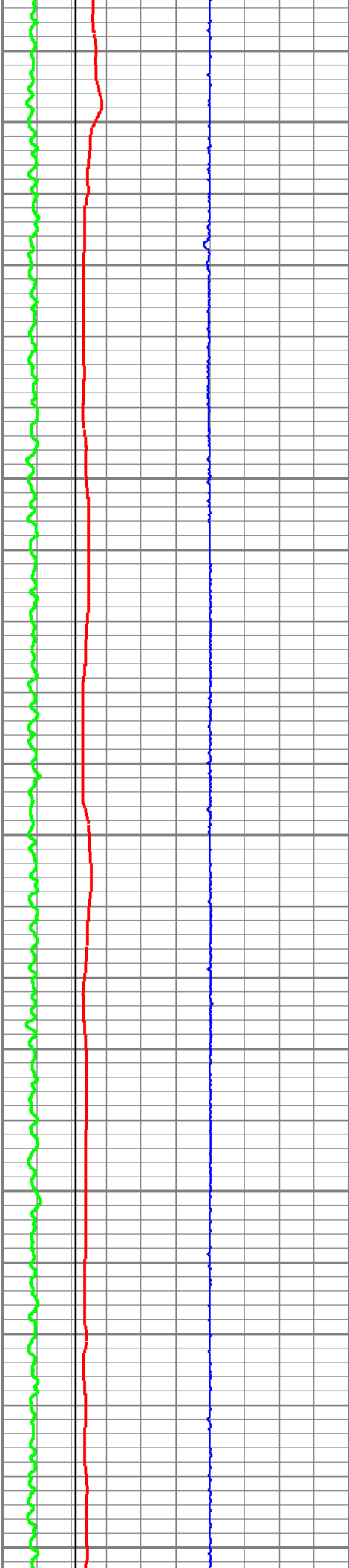
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144

7250

144





7300

144

7350

144

7400

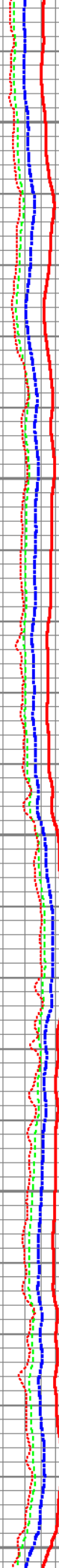
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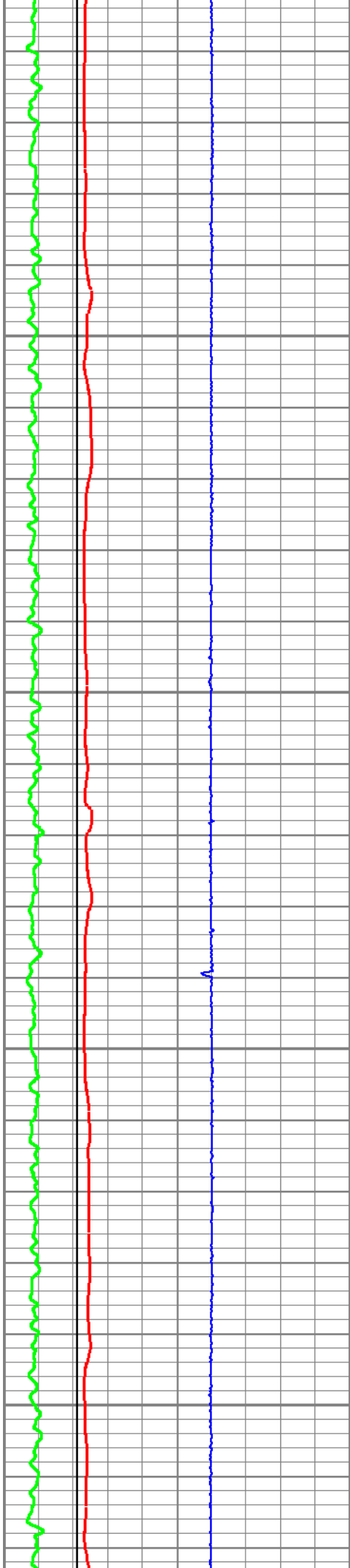
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144

7500

144





7550

144

7600

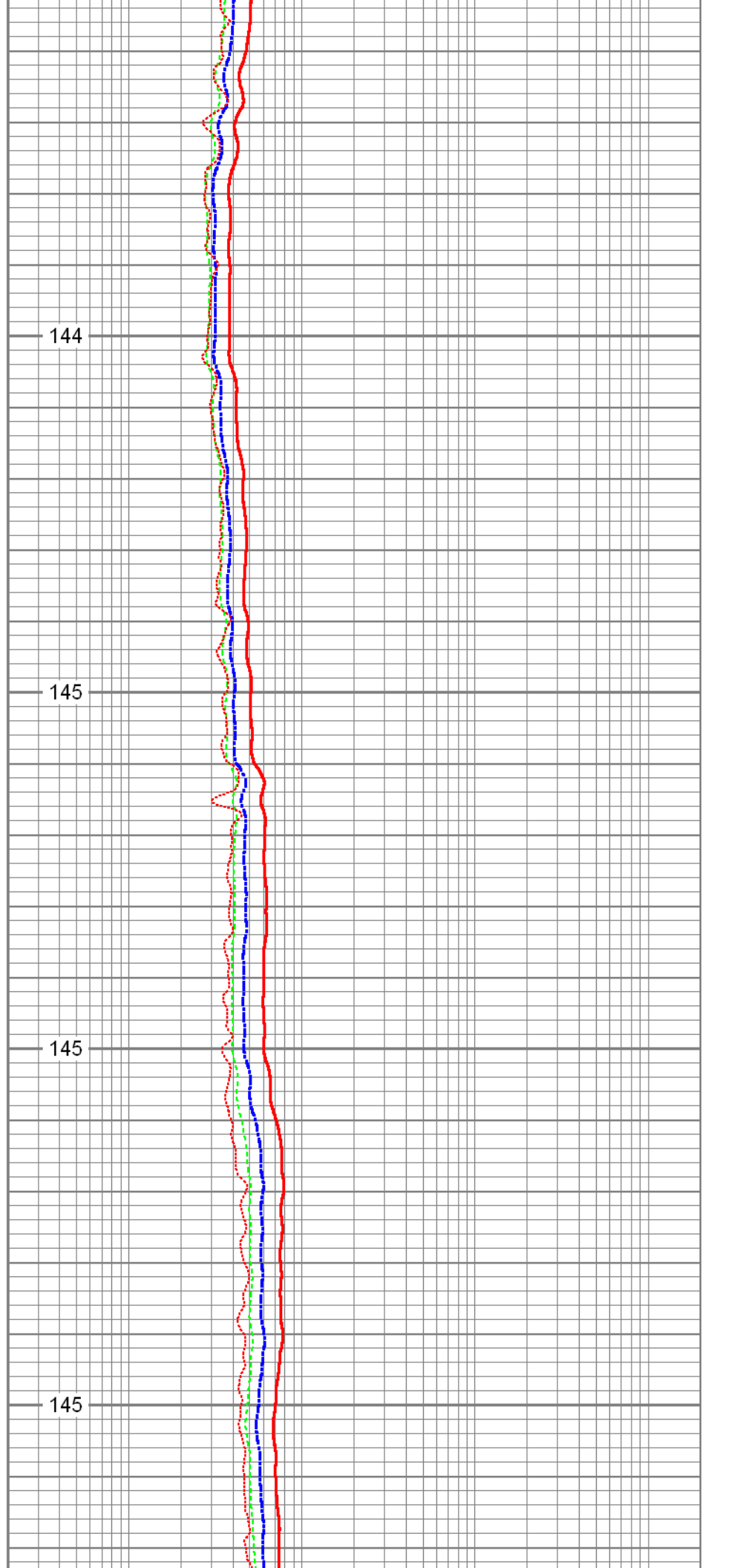
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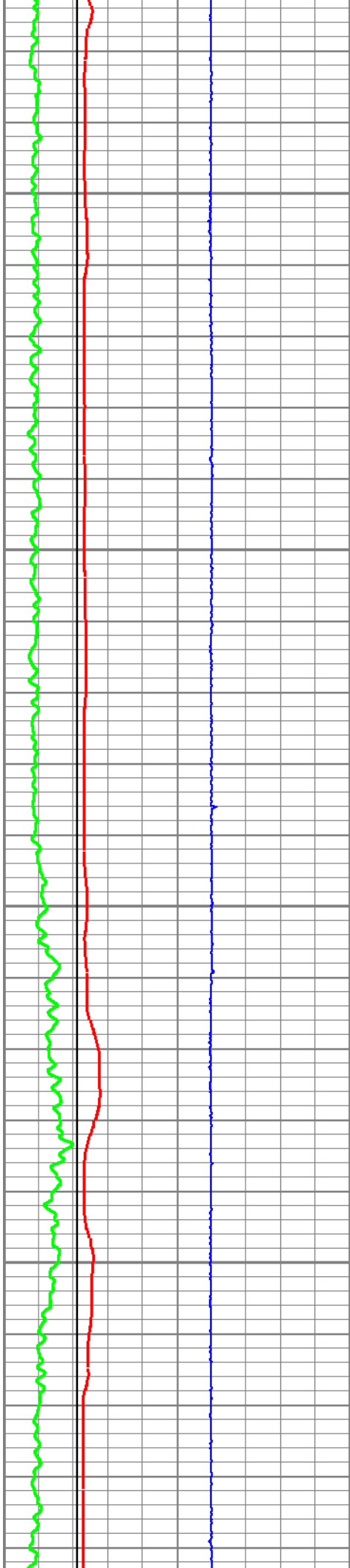
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145

7700

145





7750

145

7800

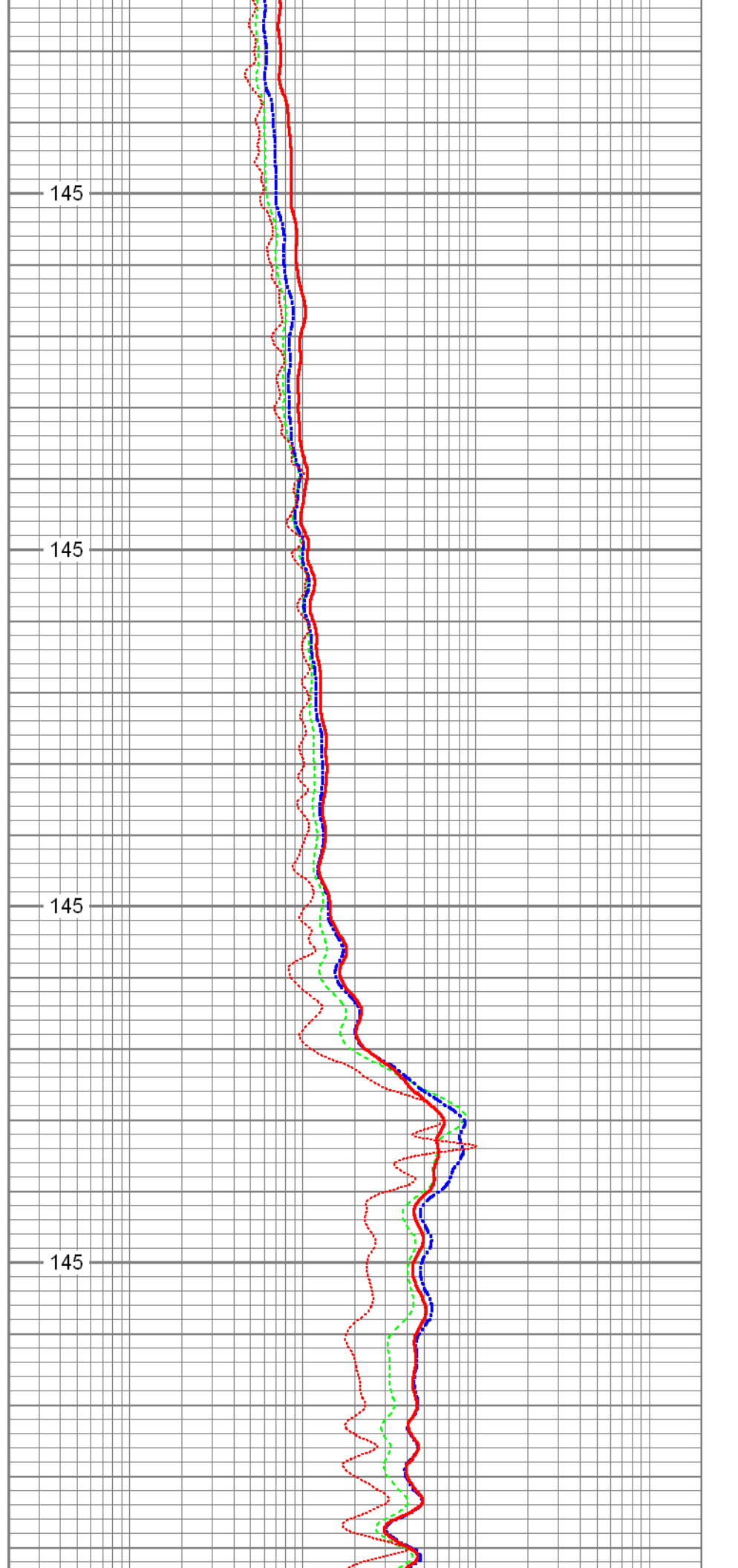
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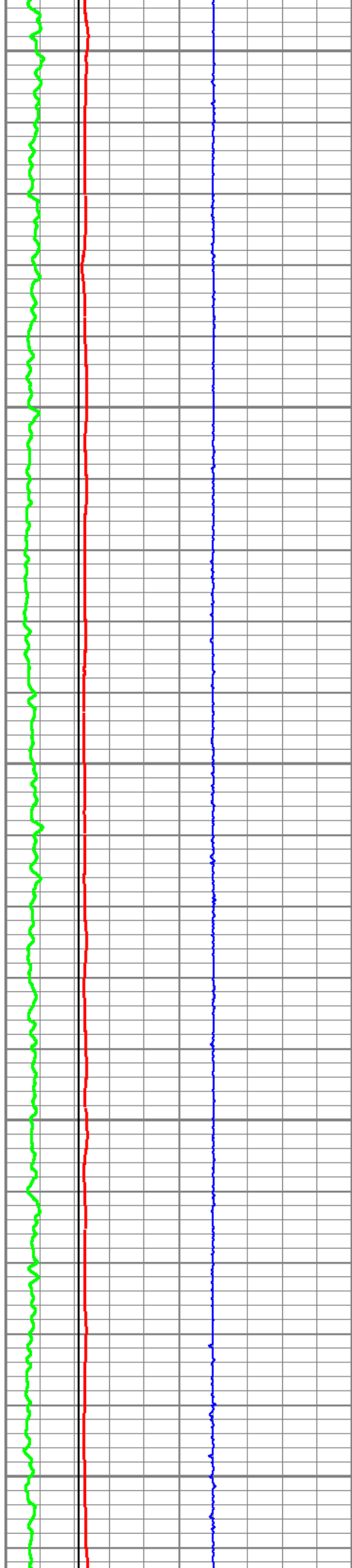
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7900

145







7950

145

8000

145

8050

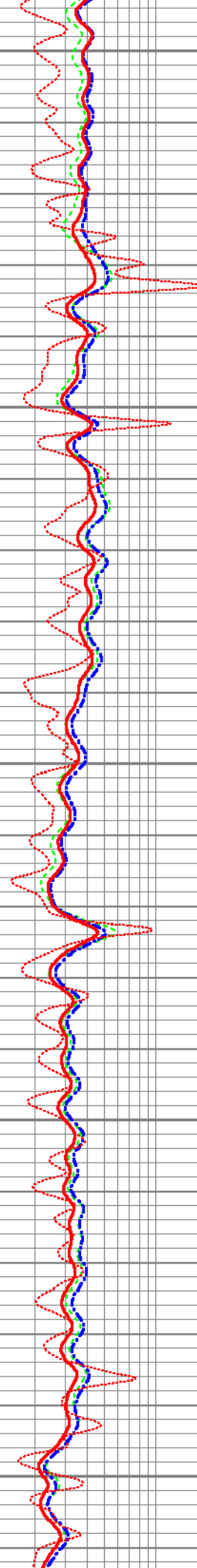
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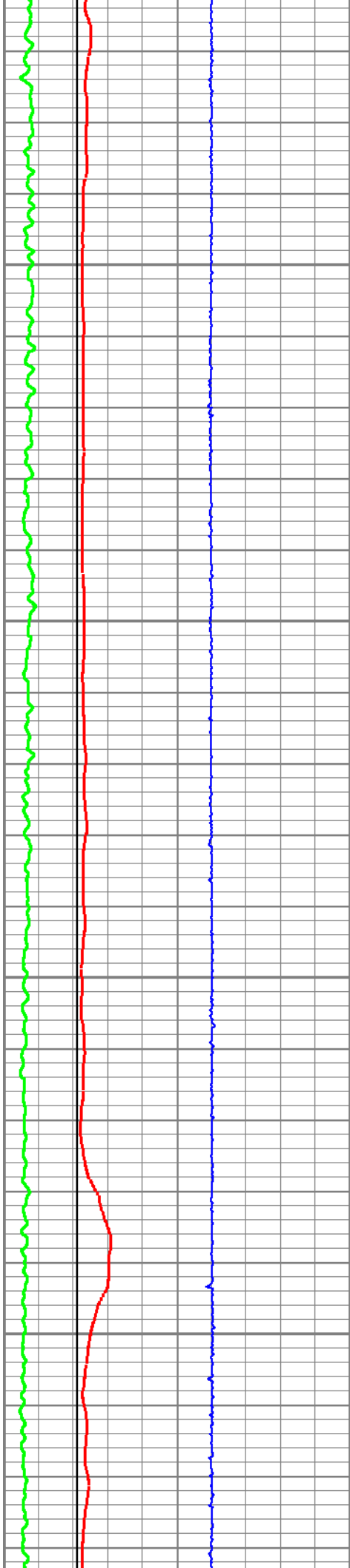
8100

145

8150

145





8200

145

8250

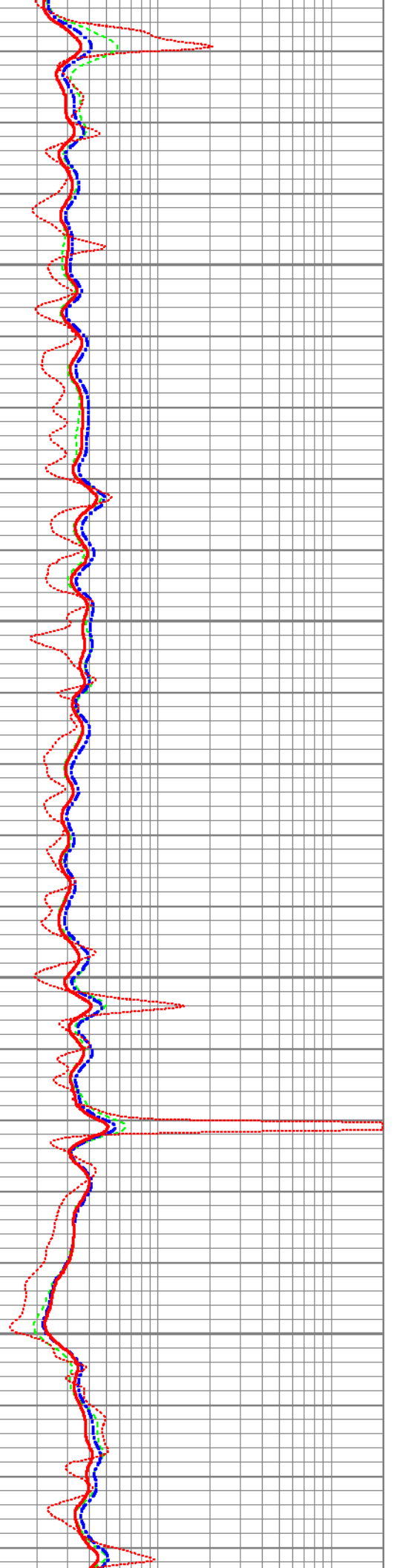
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8300

145

8350

145





8400

8450

8500

8550

8600

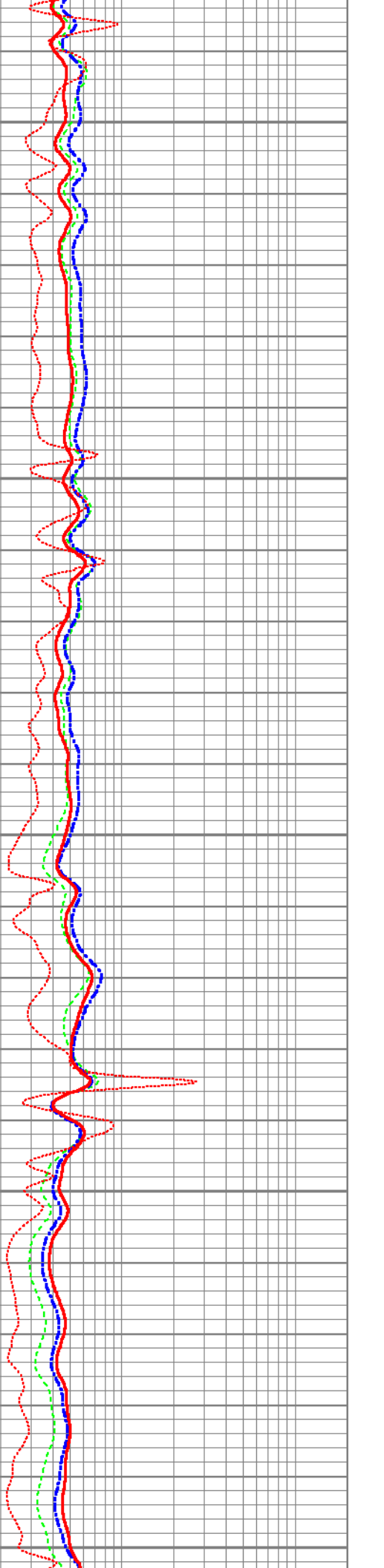
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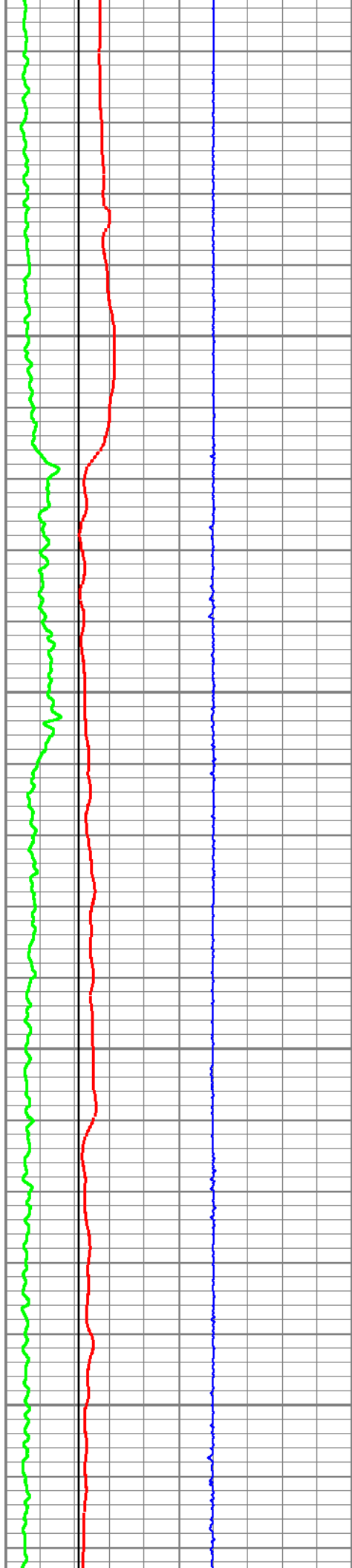
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145

145

145





8650

145

8700

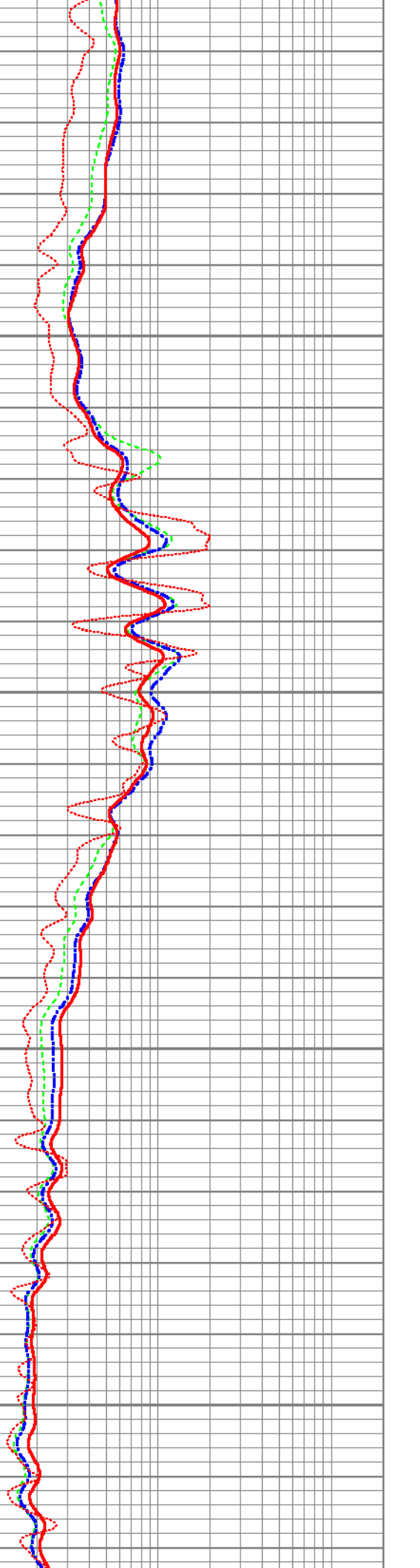
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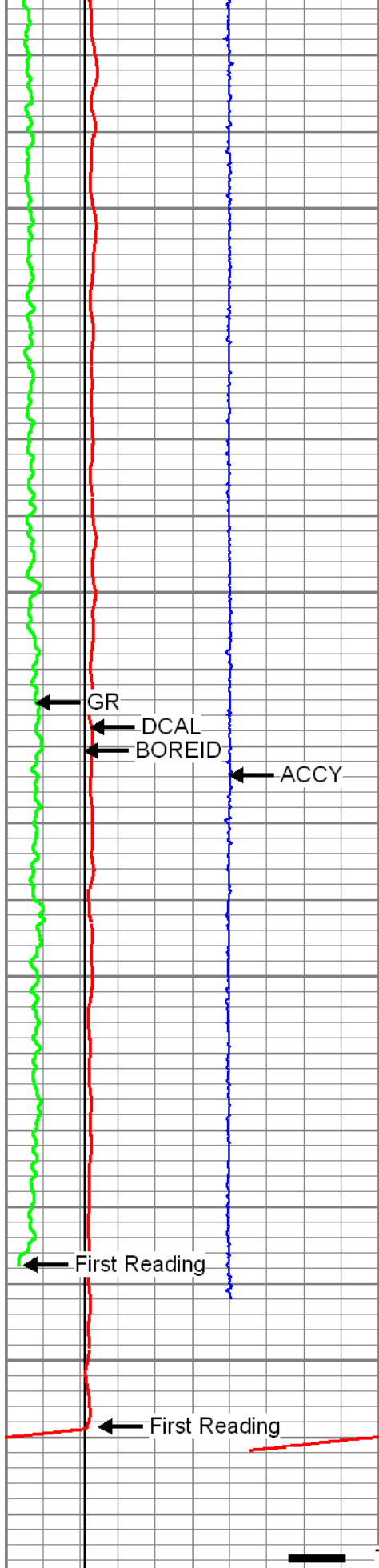
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8800

145





8850

145

8900

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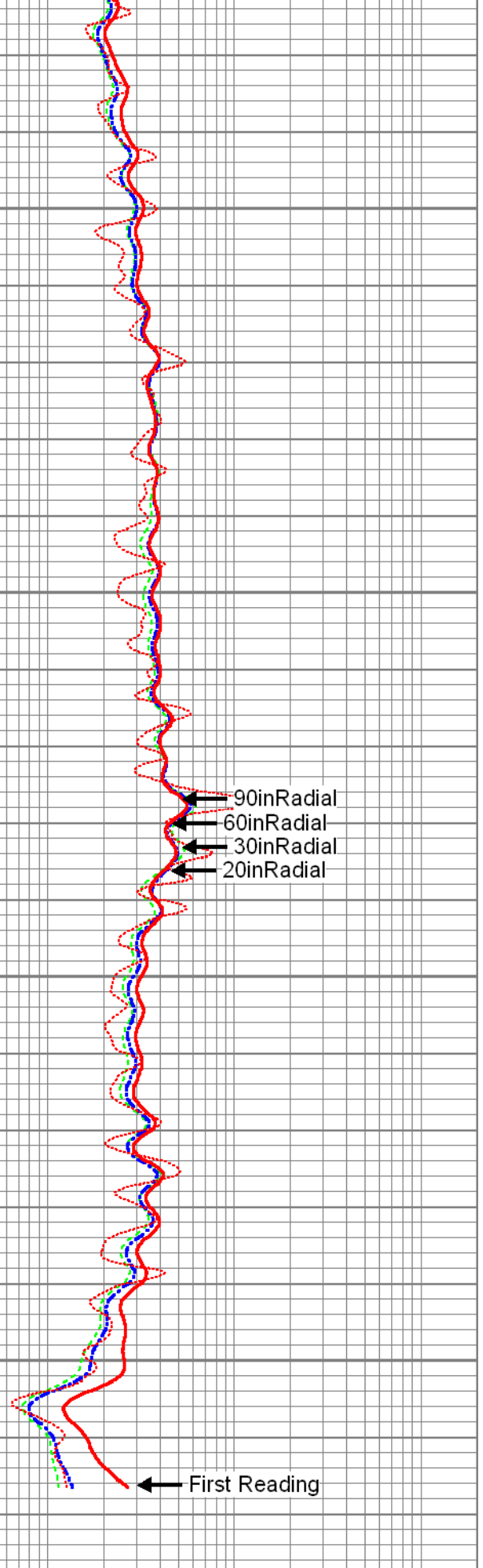
8950

147

9000

0	GR (GAPI)	150
4	BOREID (in)	14
4	DCAL (in)	14

Total Depth



90inRadial  
60inRadial  
30inRadial  
20inRadial

First Reading

0.2	30inRadial (Ohm-m)	2000
0.2	60inRadial (Ohm-m)	2000
0.2	90inRadial (Ohm-m)	2000



GRTEMP  
(degF)

# Log Variables

Database: C:\Warrior\Data\sandridge\_britt\_mem.db  
Dataset: field/well/proc1/pass1.2

## Top - Bottom

A	BHCOR	BHFL_TYPE	BHIDSRC	BOREID in	BOTTEMP degF	CASED?
1	On	WBM	CURVE	6.125	145	No
CASEOD in	CASETHCK in	CEMWATERSA kppm	CMNTTHCK in	FLUIDDEN g/cc	FRMSALIN kppm	LATNOR
4.5	0	0	0	1	0	Off
M	MATRXDEN g/cc	MUDSALIN kppm	MudWgt lb/gal	NPORSEL	PERFS	RESTMPSRC
2	2.71	1.2	8.4	Limestone	0	INTERNAL
SO in	SRFTEMP degF	SZCOR	TDEPTH ft	TMPCOR	TOOLPOS	
0.5	65	On	9060	On	Free	

## Calibration Report

Database File: sandridge\_britt\_mem.db  
Dataset Pathname: proc1/pass1.2  
Dataset Creation: Sun Oct 02 08:01:47 2011

## ThruBit Induction Calibration Report

Serial-Model: 15-PS  
Shop Calibration Performed: Wed Jul 27 09:57:49 2011

## BaseLine

	R	X
Freq 1		
A1	-416.1370	372.5410
A2	-152.4940	314.8840
A3	-26.4327	118.7310
A4	-15.0593	219.6400
A5	-13.7591	134.3270
Freq 2		
A1	-204.9750	205.6680
A2	-97.7937	180.2830
A3	-18.8361	27.4327
A4	-18.8506	56.1229
A5	-18.5381	-8.2029
Freq 3		
A1	-122.2030	74.3532
A2	-72.5857	92.8226
A3	-14.3723	-35.9529
A4	-20.2749	-53.6801

A5	-20.5684	-111.6360
Freq 4		
A1	-61.4427	-116.4680
A2	-49.8873	-25.3842
A3	-10.7600	-129.7020
A4	-23.5591	-218.7220
A5	-25.8085	-284.1170

Calibration Coefficients		
	R	X
Freq 1		
A1	0.9920	0.0043
A2	0.9868	0.0033
A3	0.9936	-0.0050
A4	0.9908	0.0053
A5	0.9904	0.0032
Freq 2		
A1	0.9862	-0.0058
A2	0.9803	-0.0060
A3	0.9816	-0.0068
A4	0.9855	-0.0040
A5	0.9854	-0.0066
Freq 3		
A1	1.0017	-0.0044
A2	0.9960	-0.0044
A3	0.9971	-0.0053
A4	1.0006	-0.0023
A5	1.0002	-0.0034
Freq 4		
A1	0.9881	-0.0055
A2	0.9832	-0.0045
A3	0.9864	-0.0075
A4	0.9883	-0.0025
A5	0.9907	-0.0052
Temperature	38.6248	

ThruBit Density Calibration Report

Serial-Model:	41-PS
Shop Calibration Performed:	Thu Sep 22 12:44:17 2011

References		
	Density	Units
Aluminium	2.602	g/cc
Magnesium	1.715	g/cc
Readings		
	Counts	Units
SS1 Background	146.88	cps

LS1 Background	163.47	cps
LS4 Background	34.17	cps
SS1 Aluminium	5327.78	cps
LS1 Aluminium	952.92	cps
LS4 Aluminium	1072.72	cps
SS1 Magnesium	8575.44	cps
LS1 Magnesium	5835.08	cps
LS1 Al + Fe	804.59	cps
LS4 Al + Fe	458.31	cps

Results

SS Slope	1.82
LS Slope	0.45
PEF K Factor	3.480
PEF B Factor	-0.082

Compensated Neutron Calibration Report

Serial Number:	E03
Tool Model:	ENP
Source Number:	
Calibration Tank Temperature:	0.0 degF

BACKGROUND MEASUREMENT

SS Counts	LS Counts
0.0	0.0

WATER TANK REFERENCE

Thu Sep 01 09:01:30 2011

SS Counts	LS Counts
0.0 cps	0.0 cps

Tank Ratio Ref	Tank Ratio	Tank Ratio Gain
30.9580 SS/LS	31.1488 SS/LS	0.9939

ALUMINUM SLEEVE REFERENCE

SS Counts	LS Counts
0.0 cps	0.0 cps

Al Ratio Ref	Al Ratio	Al Ratio Gain
0.000 SS/LS	0.000 SS/LS	1.02

Sleeve Porosity
0.00 pu

Gamma Ray Calibration Report

Serial Number:	26
Tool Model:	PS
Performed:	Sun Apr 10 10:00:25 2011

Calibrator Value:	162.7	GAPI
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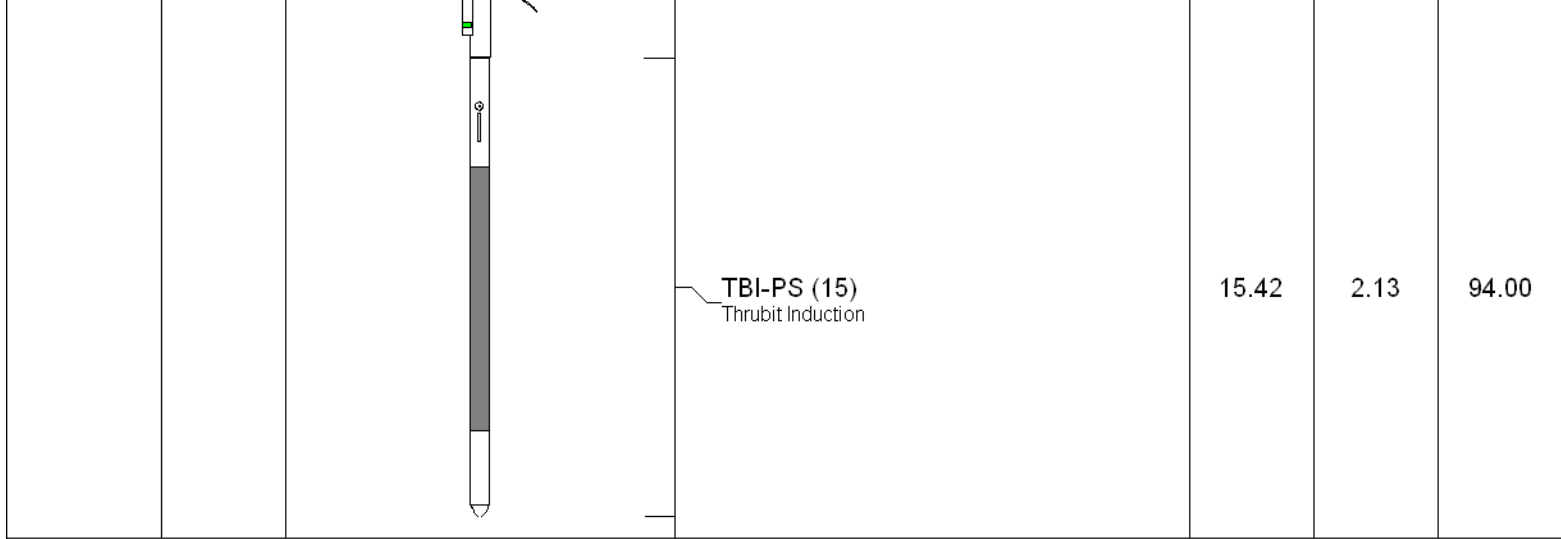
Calibrator Value: 102.7 GAPI  
 Background Reading: 68.8 cps  
 Calibrator Reading: 448.0 cps  
 Sensitivity: 0.3760 GAPI/cps

### Inclinometer Calibration Report

Performed: Sun Jun 13 14:33:21 1993


	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer					

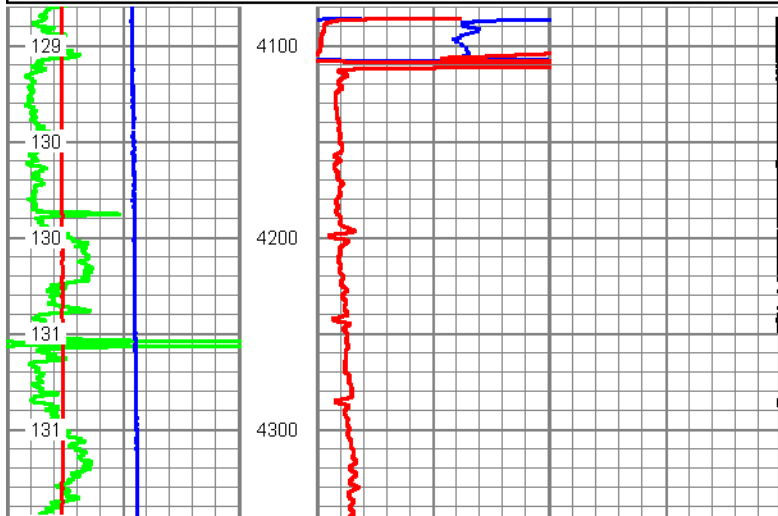
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
Thrubit	63.87		<b>Cablehead</b>	1.79	2.13	5.00
Thrubit	62.07		Thrubit 10 to 1 Cablehead			
			<b>Small_Release</b>	2.75	1.69	20.00
Thrubit	59.32		Thrubit Small Release Tool			
			<b>HangOff_Tool</b>	5.00	2.45	60.00
			Thrubit Hang Off Tool			
Thrubit	54.32		<b>10-1</b>	0.88	2.13	3.95
TBBAT	53.45		Thrubit 10 to 1 Crossover			
			<b>TBBAT-A (1)</b>	12.17	2.13	38.20
			Thrubit Battery			
TMG	41.28	<b>TMG-PS (26)</b>	6.13	2.13	45.00	
		ThruBit Telemetry Gamma Ray				
Thrubit	35.16	<b>Decentralizer</b>	4.50	2.13	22.60	
ACCX	35.16	Thrubit (Small) Decentralizer				
ACCY	35.16					
ACCZ	35.16					
GRHEADV	35.16	<b>TBN-ENP (E03)</b>	4.77	2.13	63.00	
DHTEN	35.16	ThruBit Neutron				
		<b>TBD-PS (41)</b>	10.47	2.13	94.00	
		Thrubit Density				

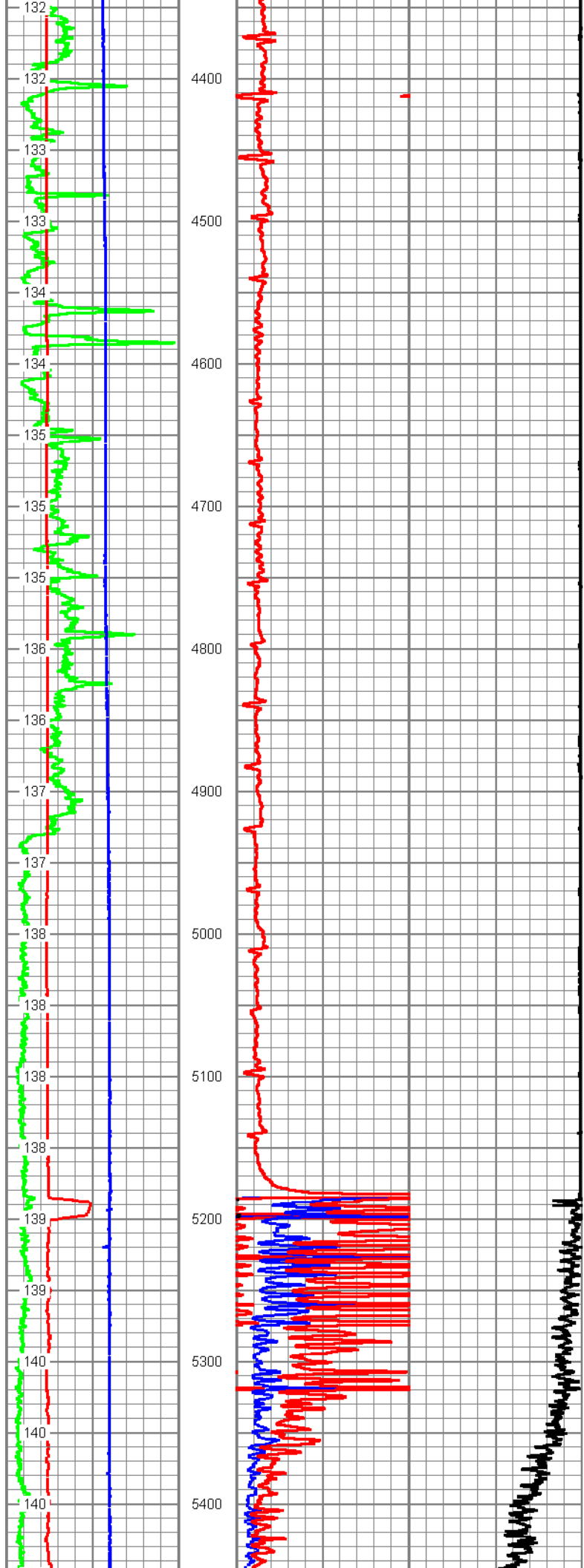


Dataset: sandridge\_britt\_mem.db: field/well/proc1/pass1.2  
 Total Length: 63.87 ft  
 Total Weight: 445.75 lb  
 O.D.: 2.45 in

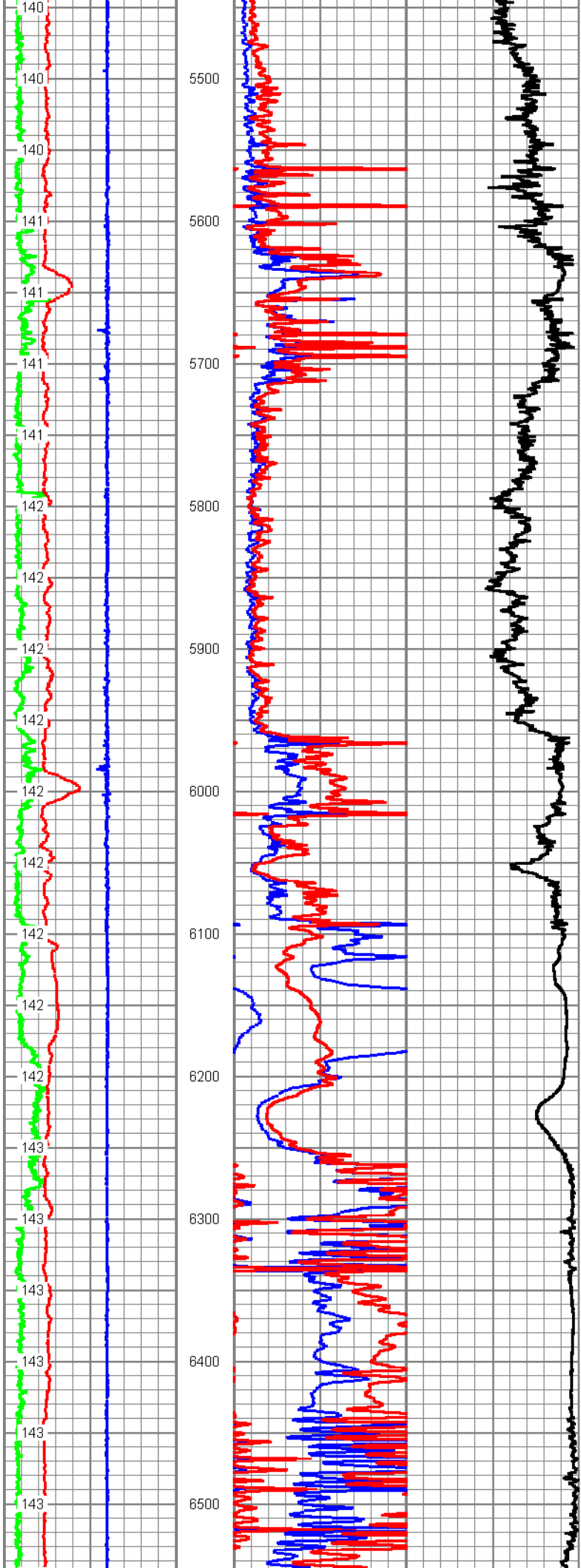
	Company	SANDRIDGE ENERGY
	Well	BRITT 1-20H
	Field	WALDRON WEST
	County	HARPER
	State	KANSAS

		<h2 style="margin: 0;">MAIN PASS</h2>	
Database File: sandridge_britt_mem.db Dataset Pathname: proc1/pass1.2 Presentation Format: chespk1r Dataset Creation: Sun Oct 02 08:01:47 2011 Charted by: Depth in Feet scaled 1:1200			
0	GR (GAPI)	150	
4	DCAL (in)	14	20in 2ft Res
-5	ACCY	5	50 (Ohm-m) 500
GRTEMP			90in 2ft Res
(degF)			50 (Ohm-m) 500
			1000 DEEP COND (Ohm-m) 0
			20in 2ft Res
			0 (Ohm-m) 50
			90in 2ft Res
			0 (Ohm-m) 50

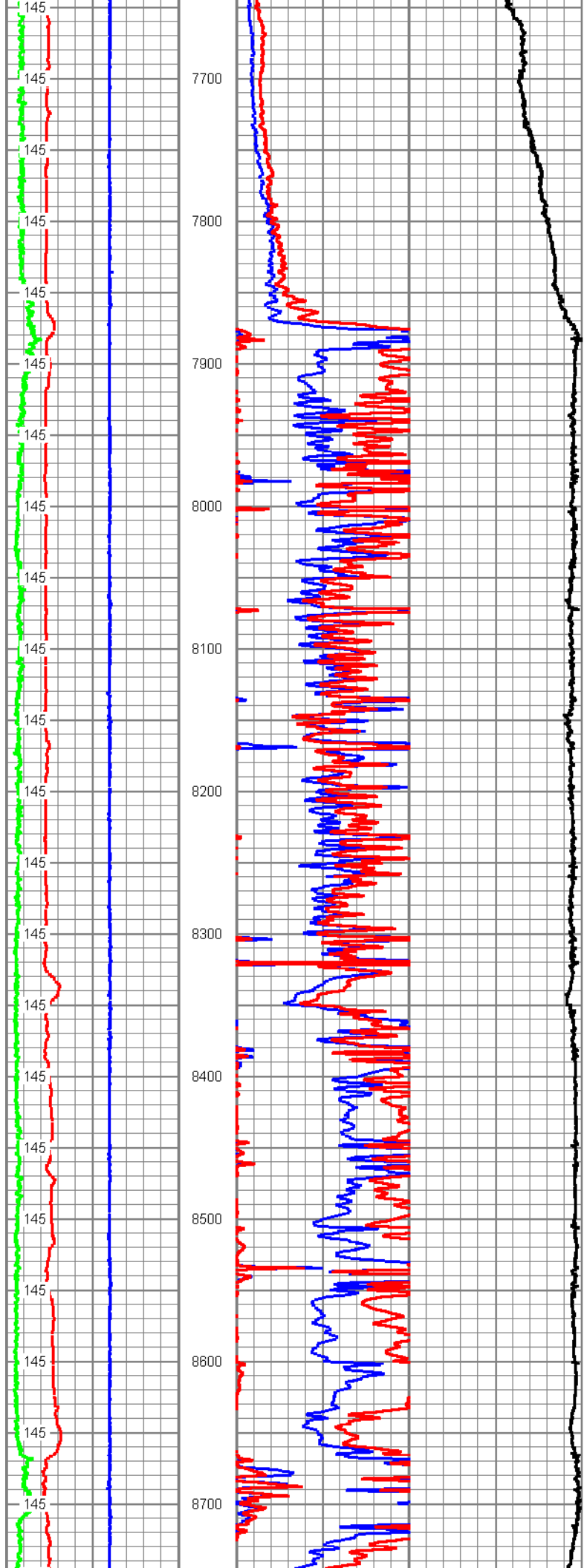


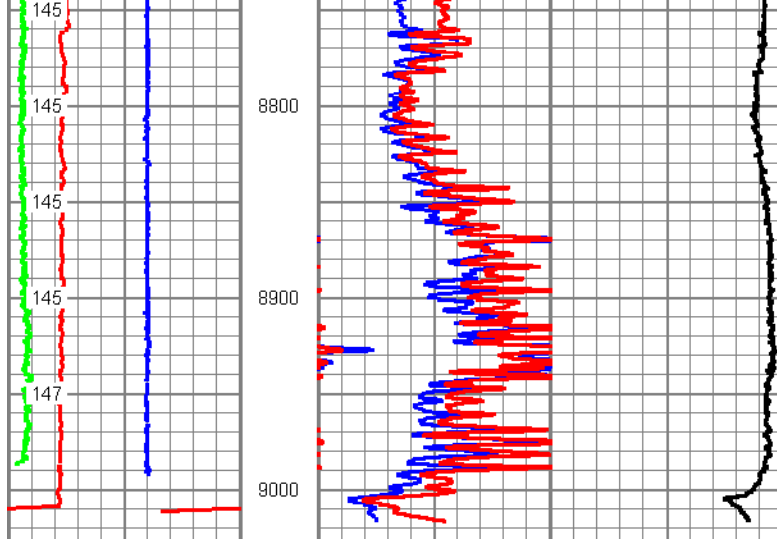












0	GR (GAPI)	150	20in 2ft Res		
4	DCAL (in)	14	50 (Ohm-m)	500	
-5	ACCY	5	90in 2ft Res		
GRTEMP			50 (Ohm-m)	500	
(degF)			1000 DEEP COND (Ohm-m)		0
			20in 2ft Res		
			0 (Ohm-m)	50	
			90in 2ft Res		
			0 (Ohm-m)	50	



LOGGING SOLUTIONS

DUAL SPACED NEUTRON  
SPECTRAL DENSITY  
GAMMA RAY  
MEMORY LOG

Company	SANDRIDGE ENERGY	Company	SANDRIDGE ENERGY
Well	BRITT 1-20H	Well	BRITT 1-20H
Field	WALDRON WEST	Field	WALDRON WEST
County	HARPER	County	HARPER
State	KANSAS	State	KANSAS
Location:	API #: 15-077-21746	Other Services	THRUBIT PORTAL BIT
Permanent Datum	G.L.	Elevation	K.B. 1330'
Log Measured From	K.B. 14' ABOVE PERM DATUM	D.F.	1330'
Drilling Measured From	K.B.	G.L.	1316'
	SEC 20 TWP 34S RGE 6W		
	SHL: 200' FSL & 760' FWL		
	BHL: 330' FNL & 760' FWL		

Date	2 OCTOBER 2011
Run Number	ONE
Depth Driller	9060
Depth Logger	9026
Bottom Logged Interval	9016
Top Log Interval	5185
Casing Driller	7.0" @ 5190'
Casing Logger	5185
Bit Size	6.125
Type Fluid in Hole	WBM
Density / Viscosity	8.4 / 27
pH / Fluid Loss	11.0 / NA
Source of Sample	MUD PIT
Rm @ Meas. Temp	0.34 ohms @ 65 degf
Rmf @ Meas. Temp	0.25 ohms @ 65 degf
Rmc @ Meas. Temp	0.43 ohms @ 65 degf
Source of Rmf / Rmc	CALCULATED
Rm @ BHT	0.16 ohms @ 146 degf
Time Circulation Stopped	10:45 PM 10-1-2011
Time Logger on Bottom	11:30 PM 10-1-2011
Maximum Recorded Temperature	146 degf
Equipment Number	T005
Location	OKC, OK
Recorded By	DENGLER
Witnessed By	JACKIE KENNEDY
	TAMMY ALCORN

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

SERVICE: HORIZONTAL PUMP DOWN MEMORY BIT DEPTH: 8972 LOG TO: 5185  
 ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST  
 LIMESTONE MATRIX, 2.71 g/cc, USED FOR POROSITY MEASUREMENTS  
 TOOLS RAN WITH DECENTRALIZER AND SWIVEL  
 TBHV REPRESENTS TOTAL BOREHOLE VOLUME, ft<sup>3</sup>  
 ABHV REPRESENTS ANNULAR BOREHOLE VOLUME, ft<sup>3</sup>, CALCULATED FOR 4.5" CASING  
 USED RIGMINDER WITH RIGSENSE TO ACQUIRE LOG DEPTH  
 CORRELATED TO PIPE TALLY PROVIDED BY CUSTOMER

RIG: KEEN 18  
 CREW: J. DENGLER, J. HIRSCHLER, R. DENTON

Service Ticket No.	764	API No.	15-077-21746	PGM Ver
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The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	PS26T	Serial No.	ENP3N	Serial No.	PS41D	Serial No.	PS15R
Model No.	GAMMA RAY	Model No.	NEUTRON	Model No.	DENSITY	Model No.	INDUCTION
Diameter	2.125"	Diameter	2.125"	Diameter	2.125"	Diameter	2.125"

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments		
No.	From	To	Pressure	Ft/Min			
ONE	9026	5185		30			

	GAMMA RAY		NEUTRON		DENSITY		INDUCTION	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	150	30	-10	30	-10	.2	2000

DIRECTIONAL INFORMATION

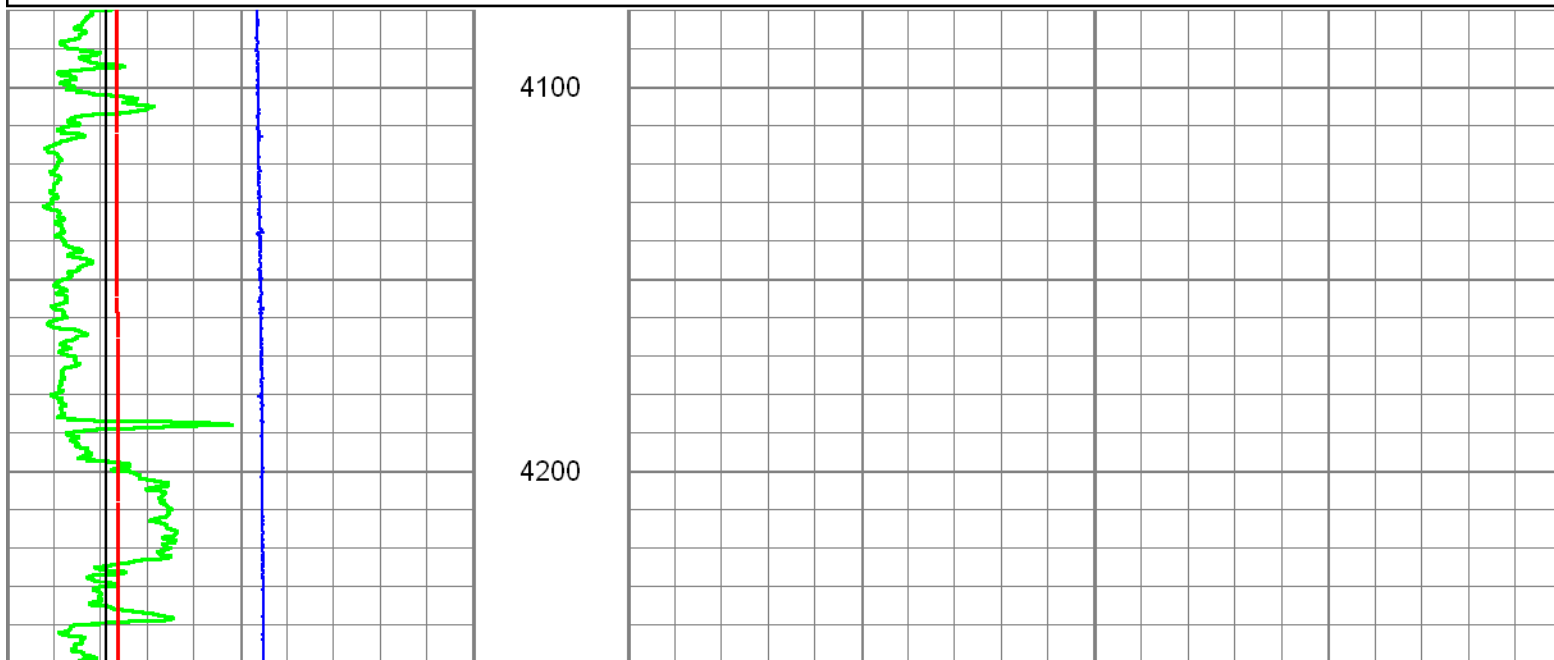
Maximum Deviation	93.0	deg. @	5743.0	KOP	3782	
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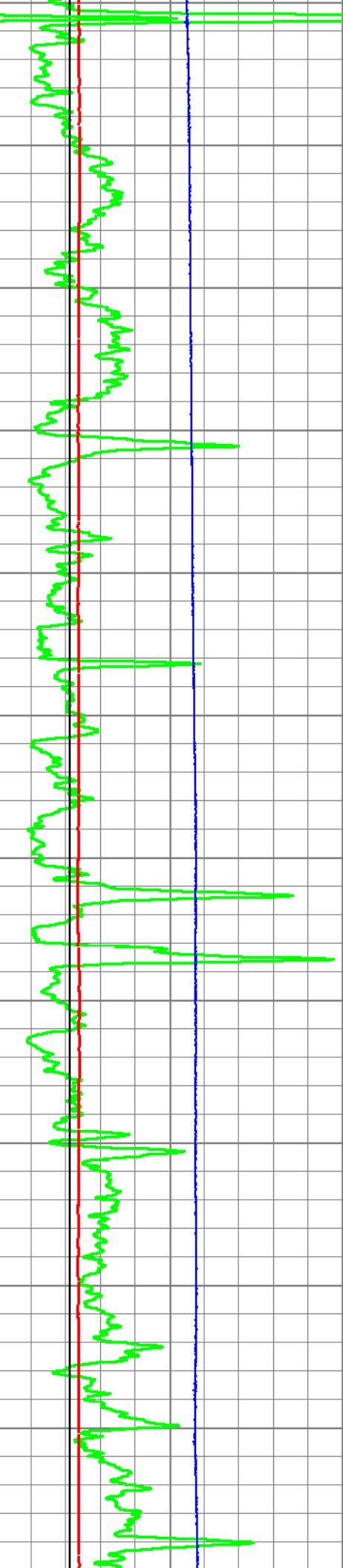
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 Dataset Pathname: proc1/pass1.2  
 Presentation Format: chespk2n  
 Dataset Creation: Sun Oct 02 08:01:47 2011  
 Charted by: Depth in Feet scaled 1:600

0	GR (GAPI)	150	0	PEF (barn)	10	-0.5	DRHO (g/cc)	0.5
4	DCAL (in)	14	2	RHOB (g/cc)				
4	BOREID (in)	14						
-5	ACCY	5						







4300

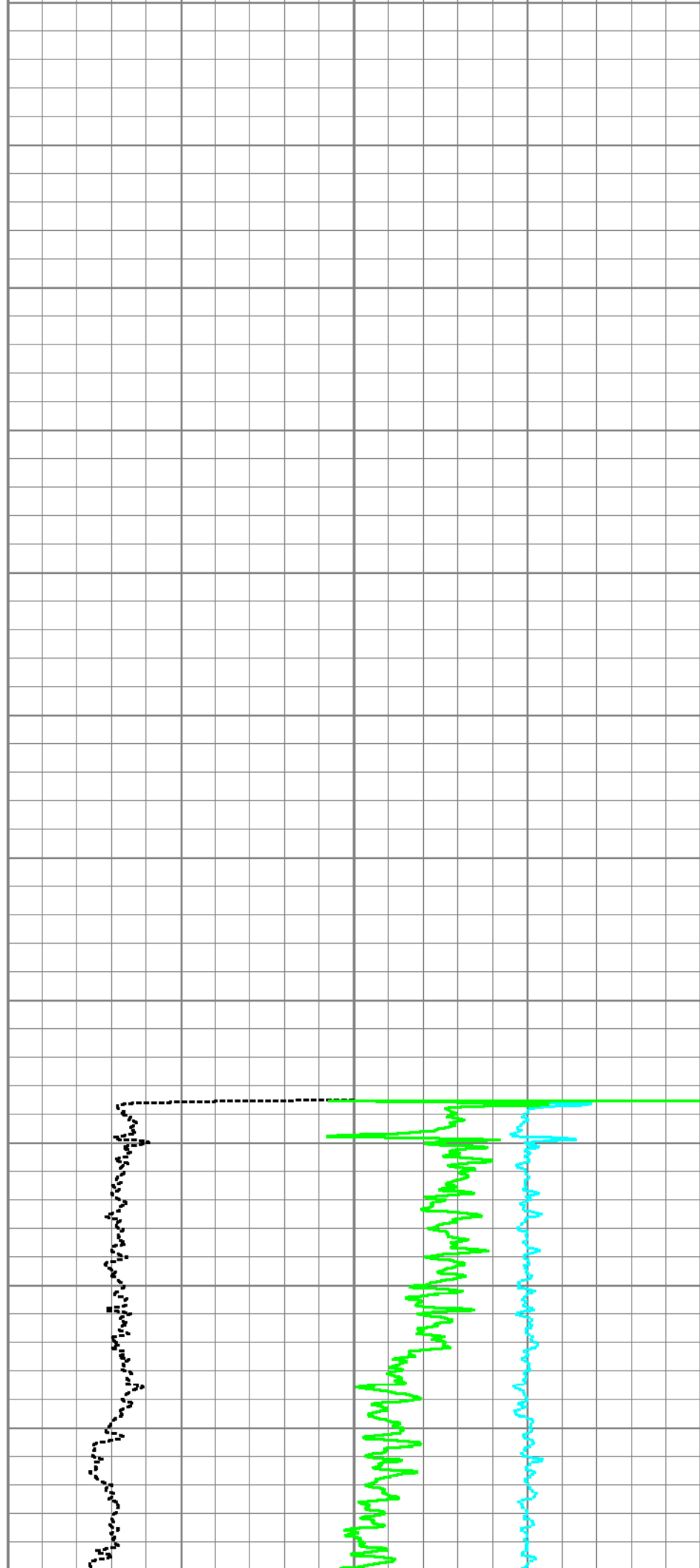
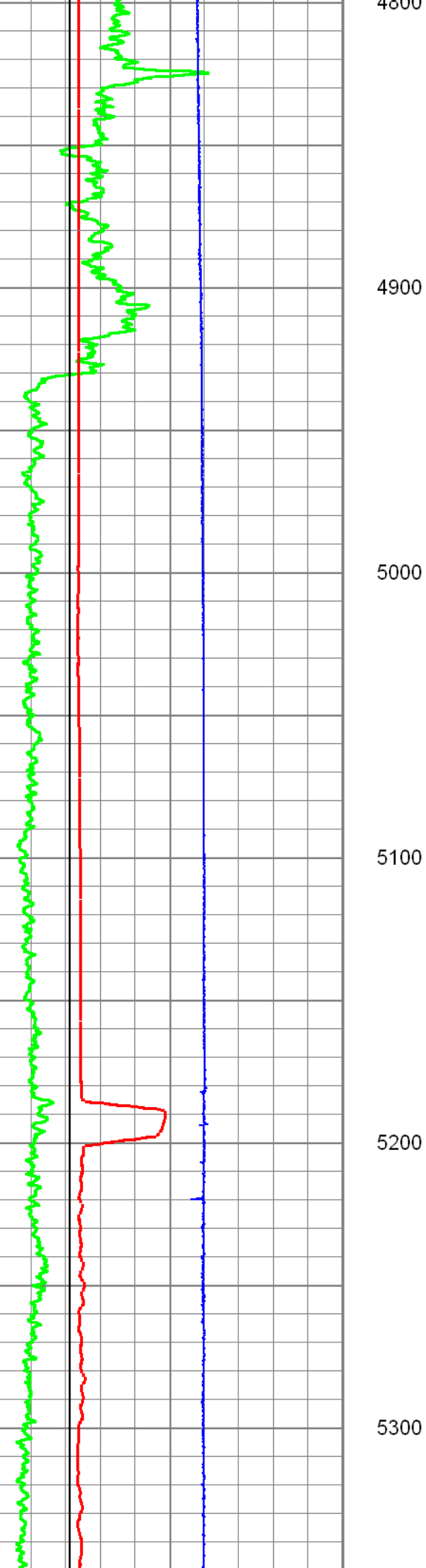
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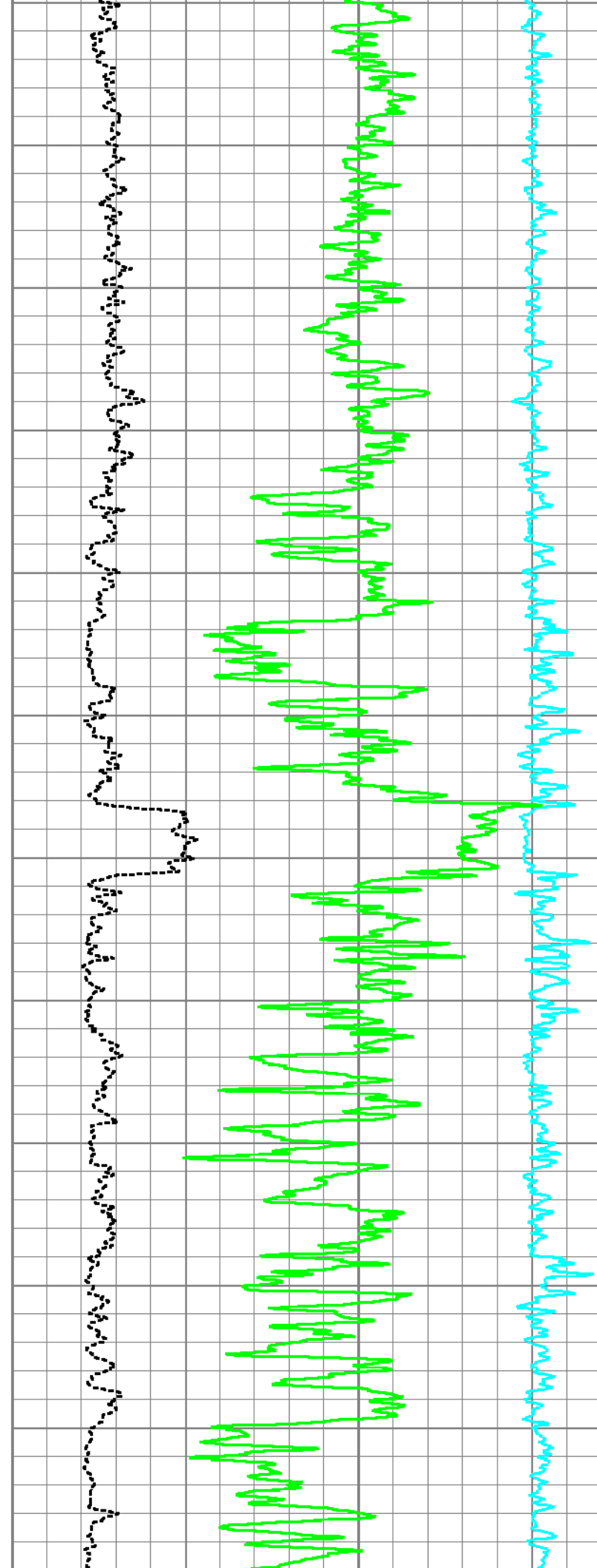
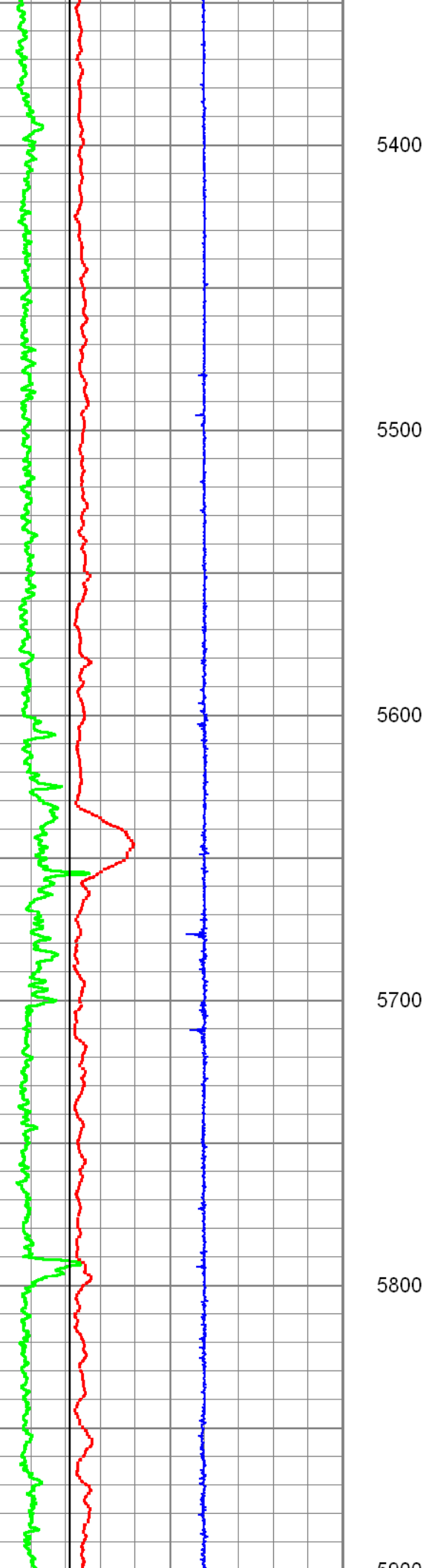
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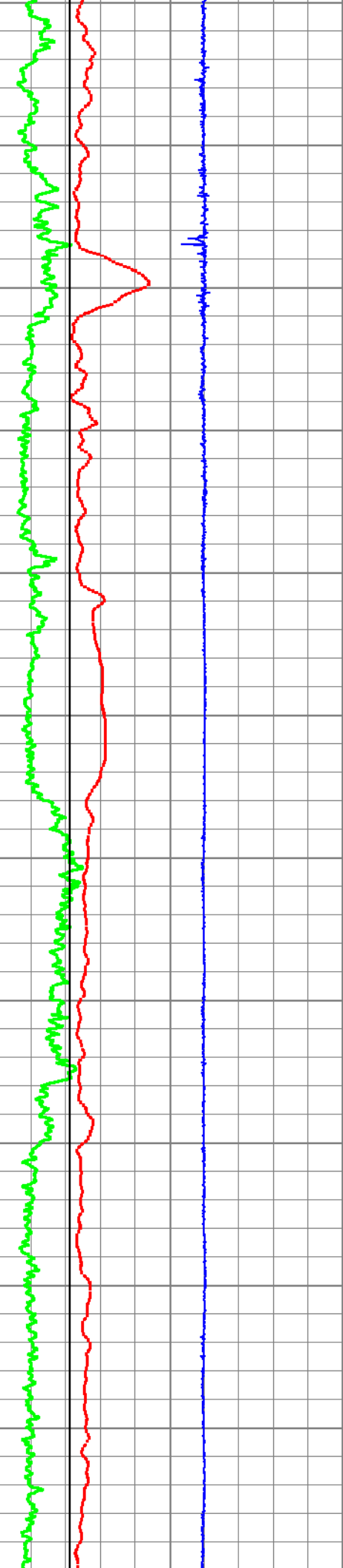
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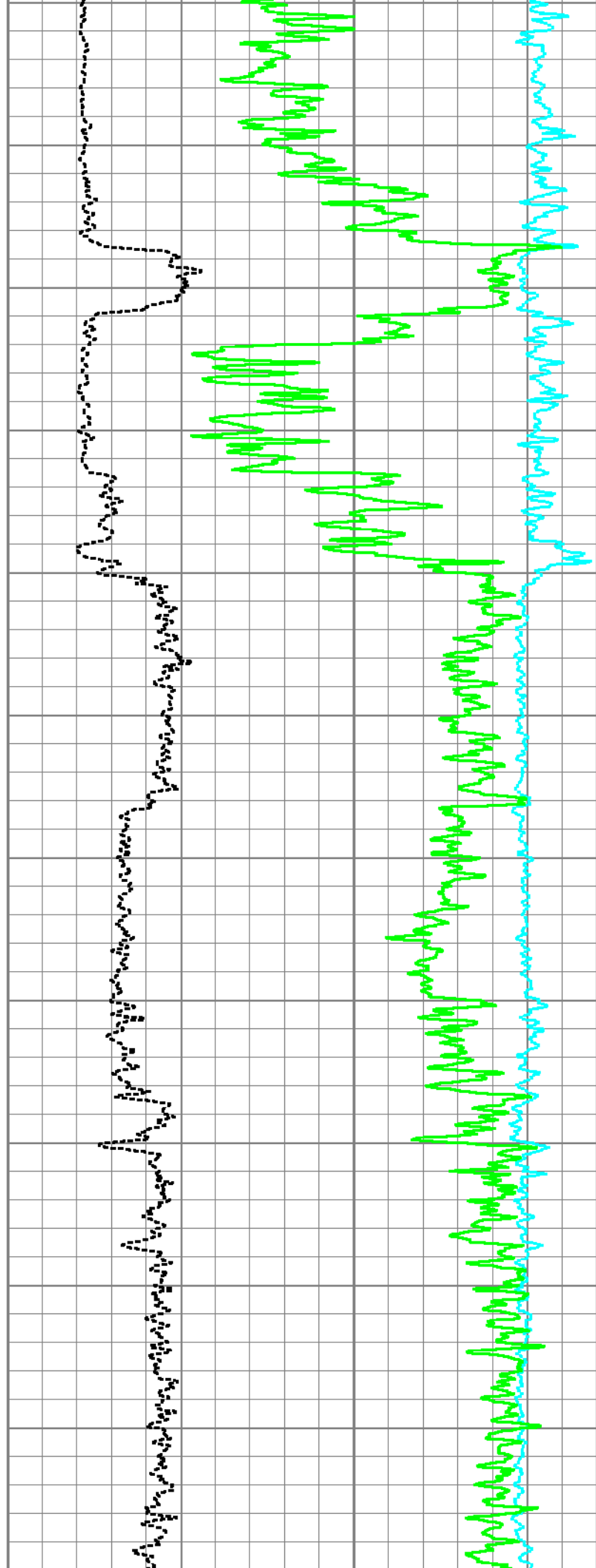
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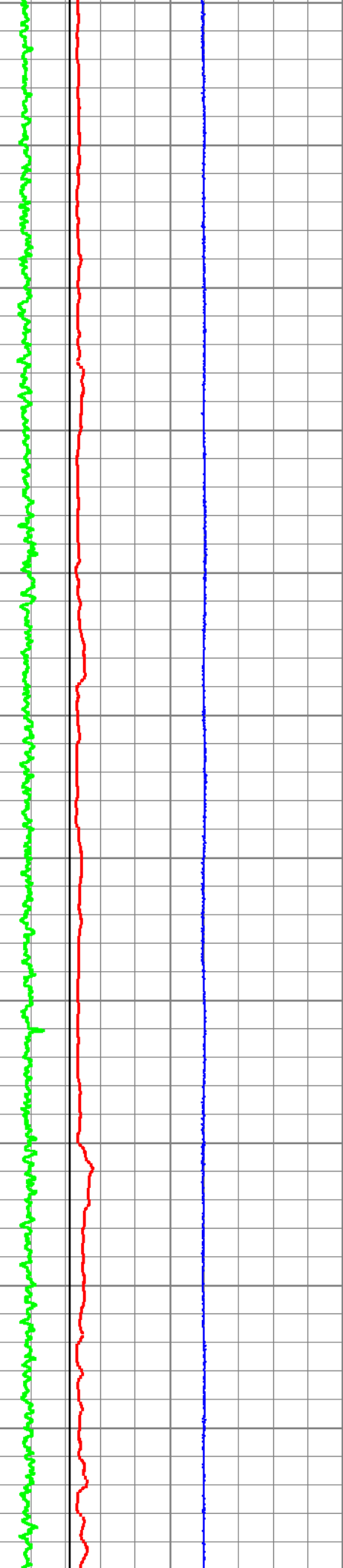






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6100  
6200  
6300  
6400





6500

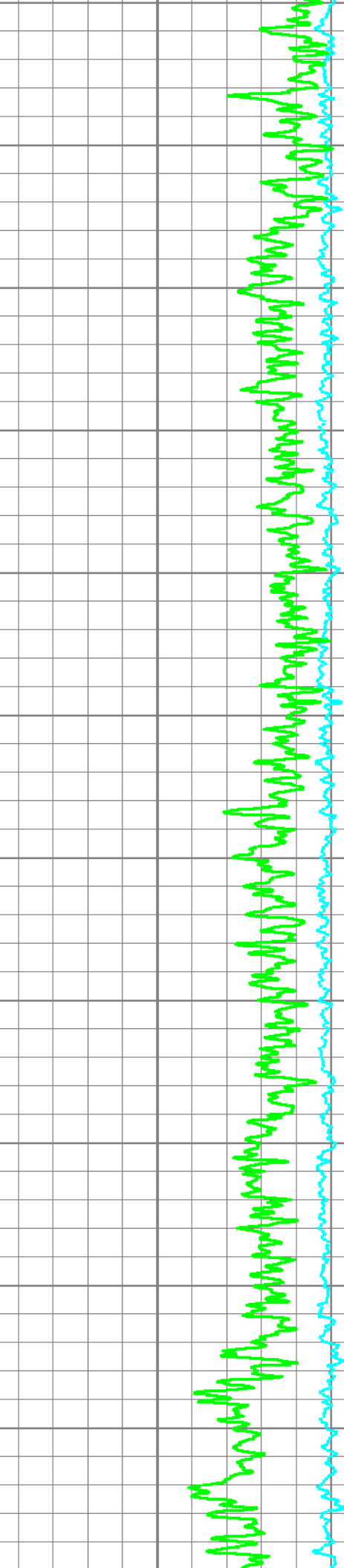
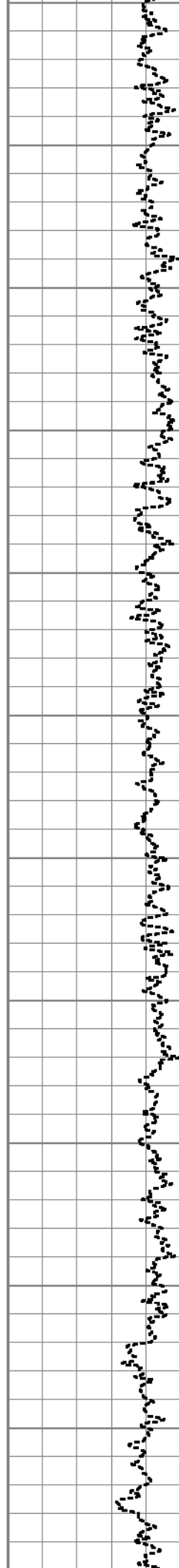
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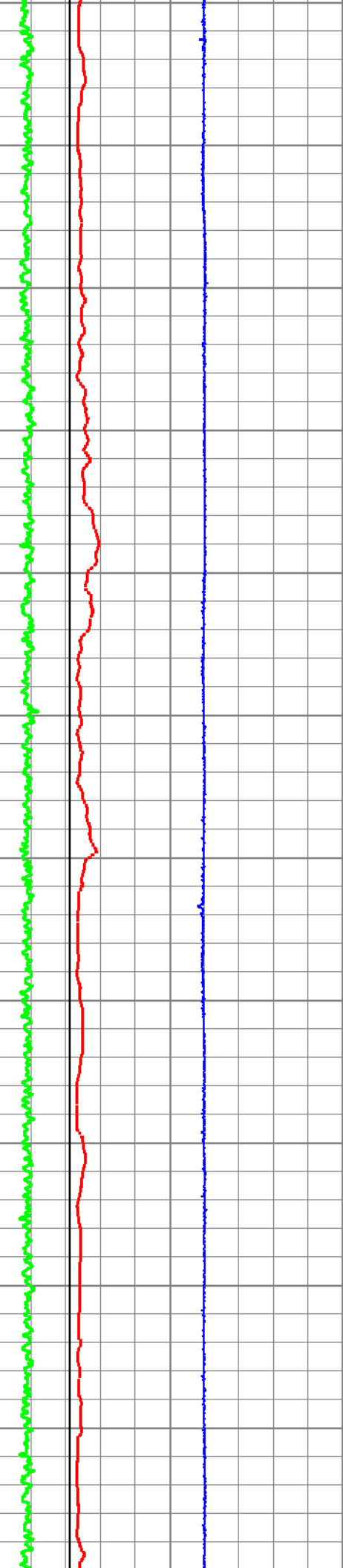
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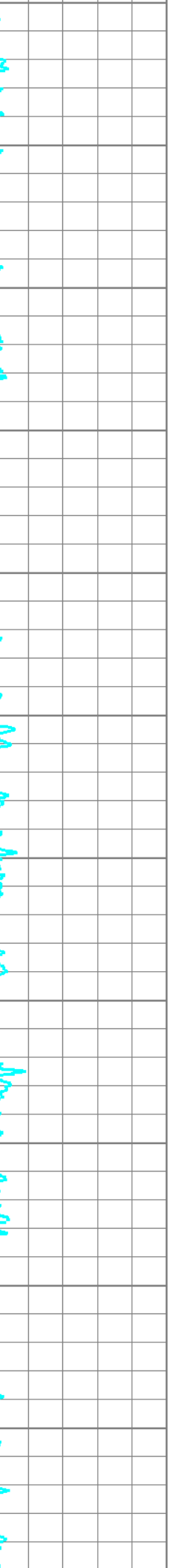
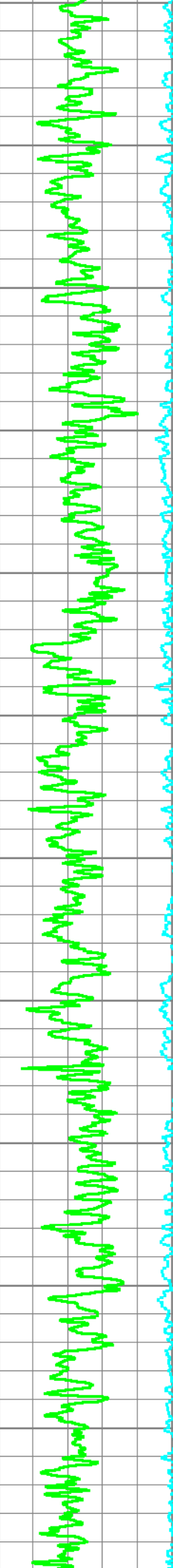
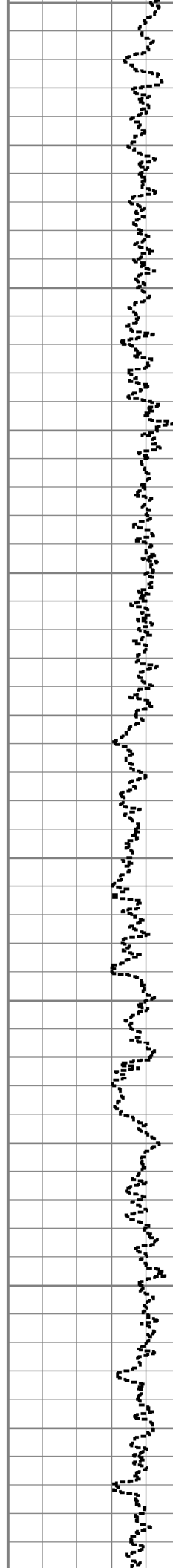
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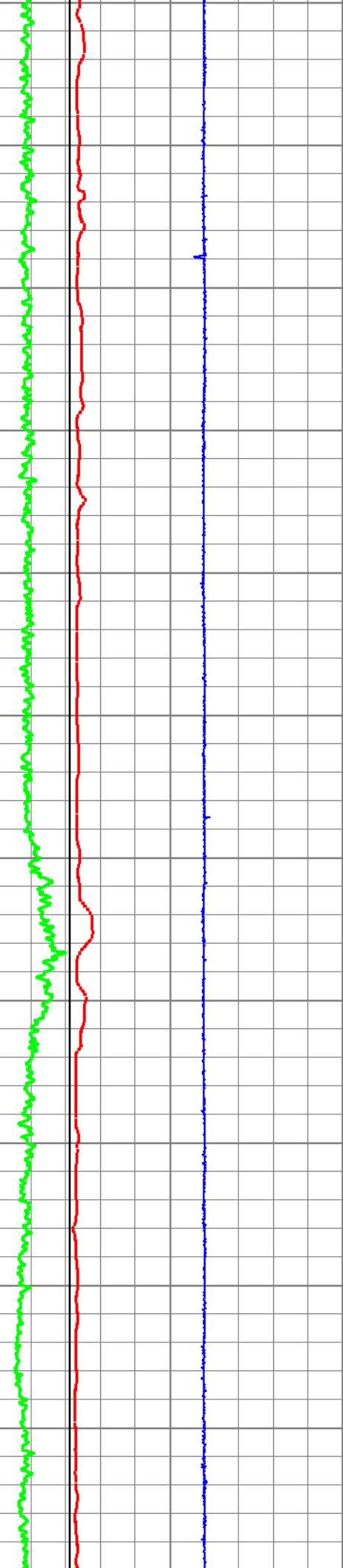
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7600

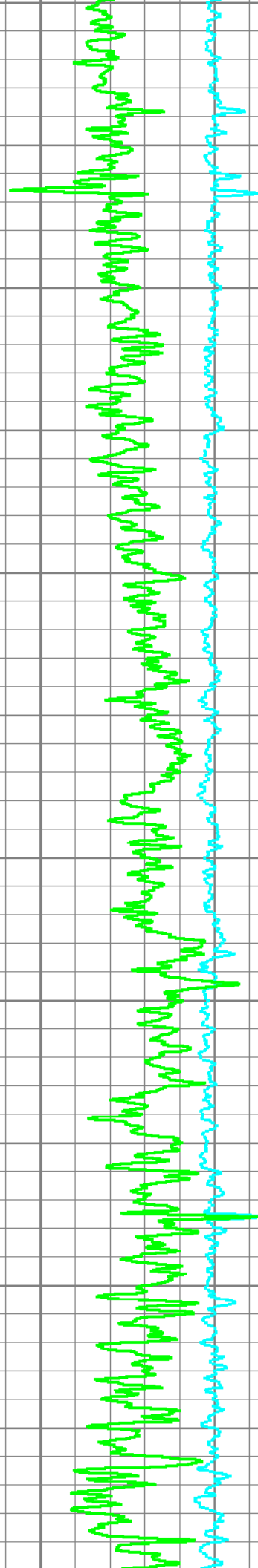
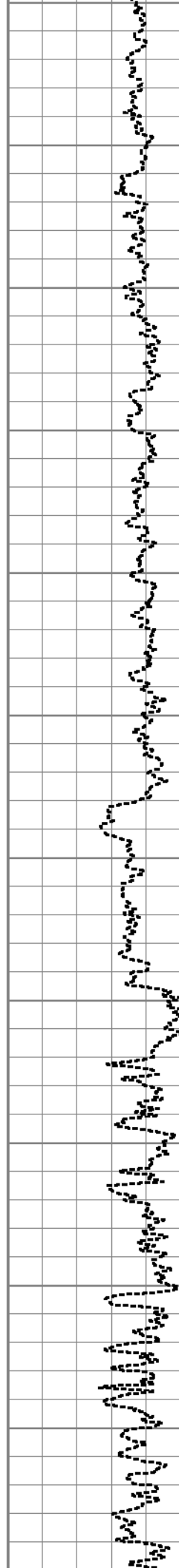
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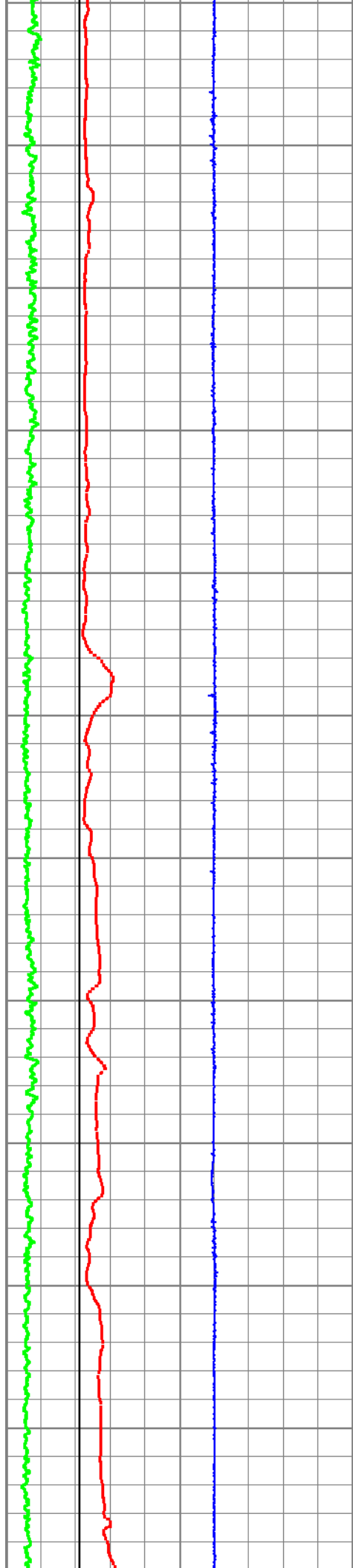
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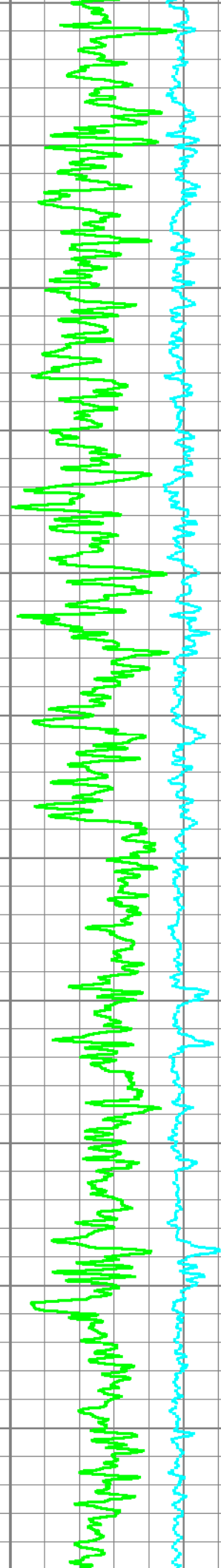
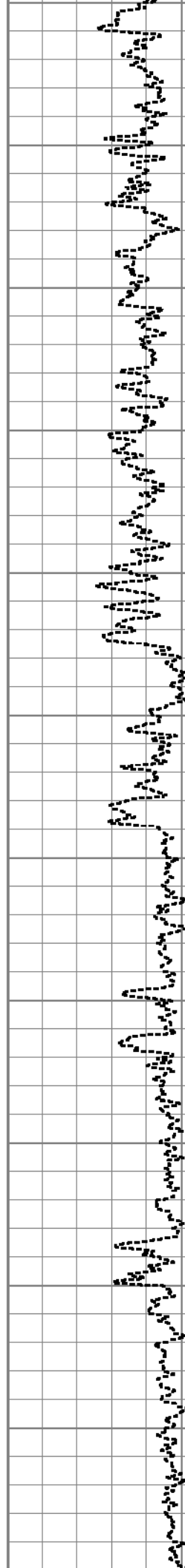
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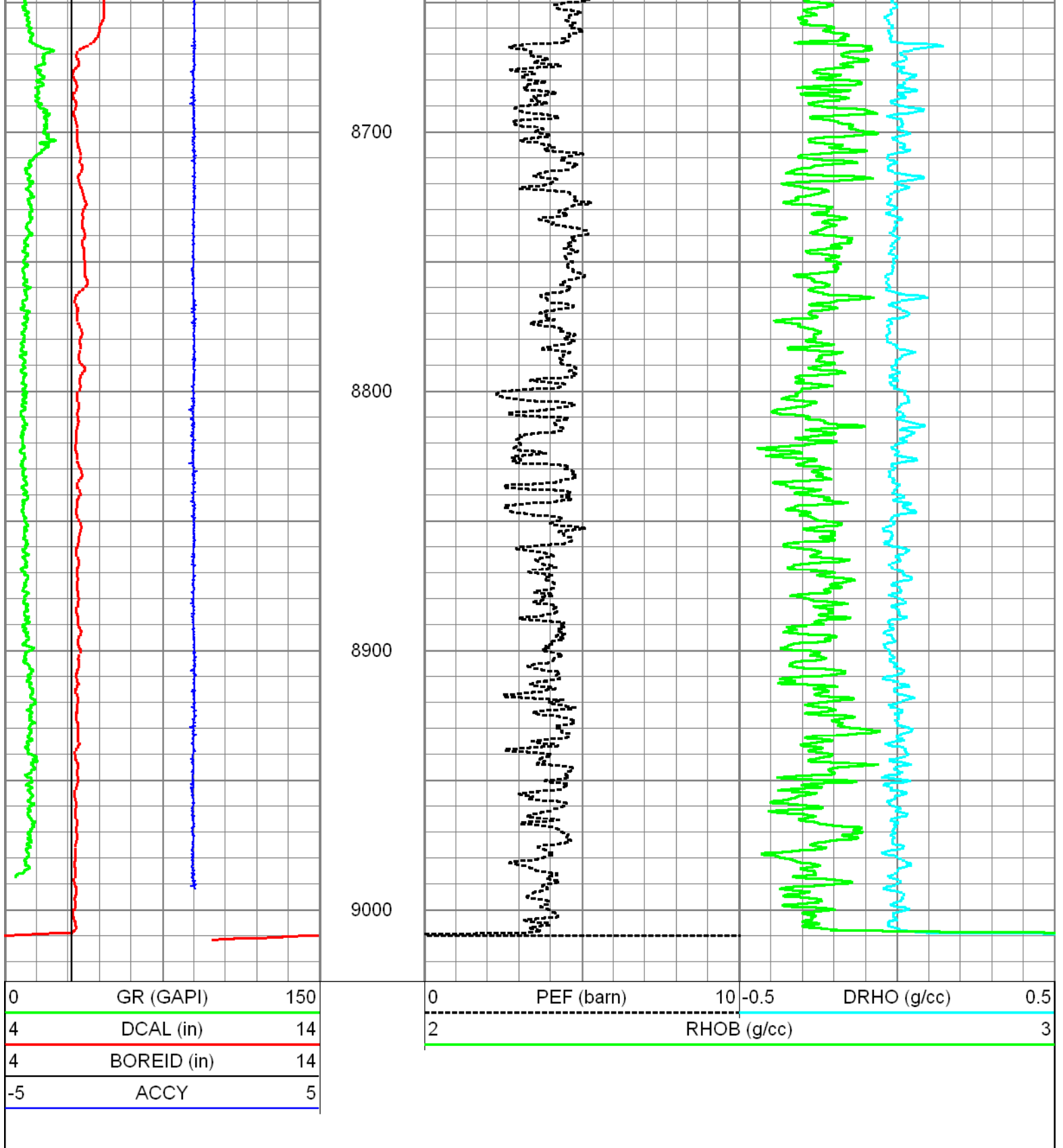






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8600



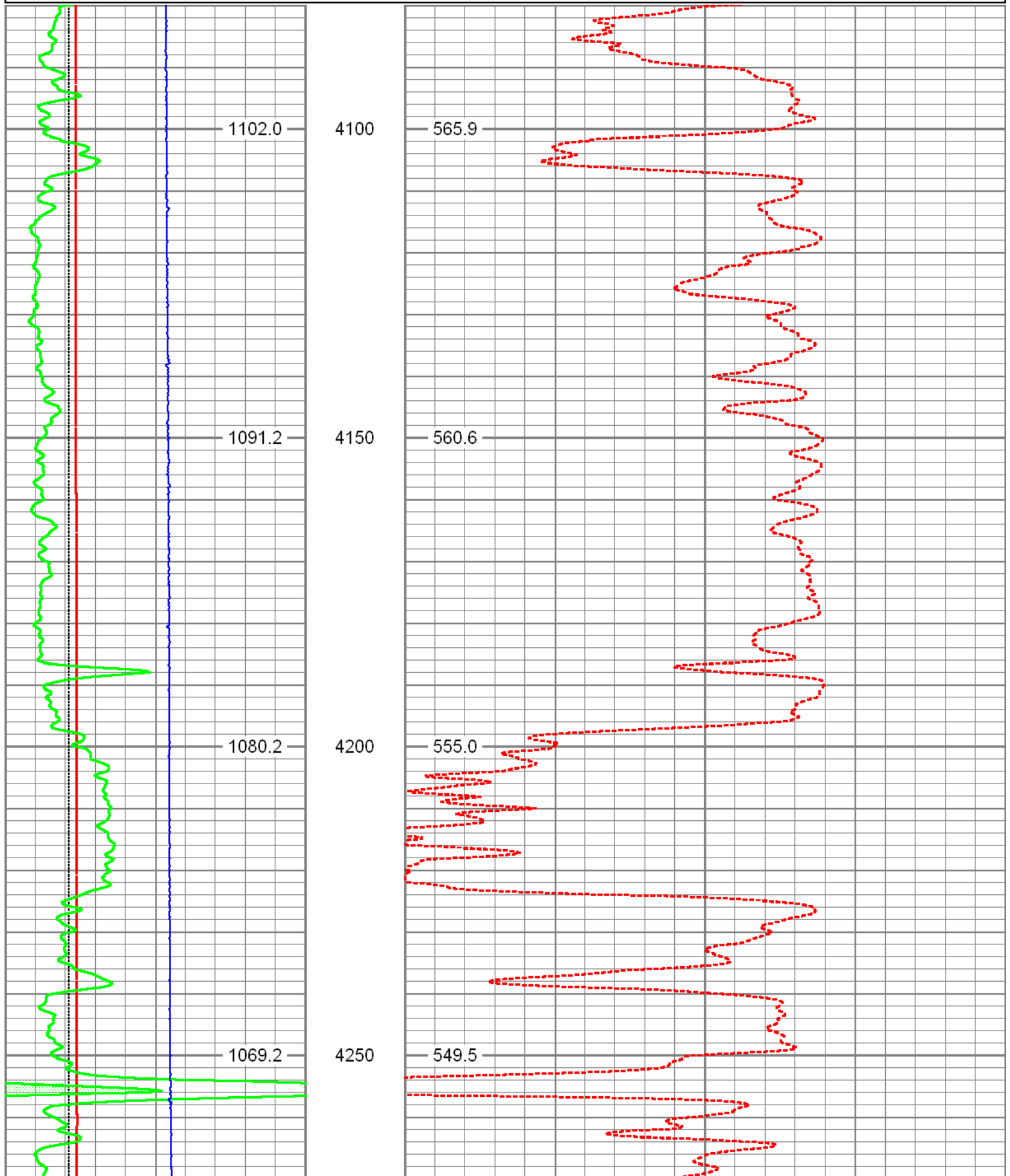


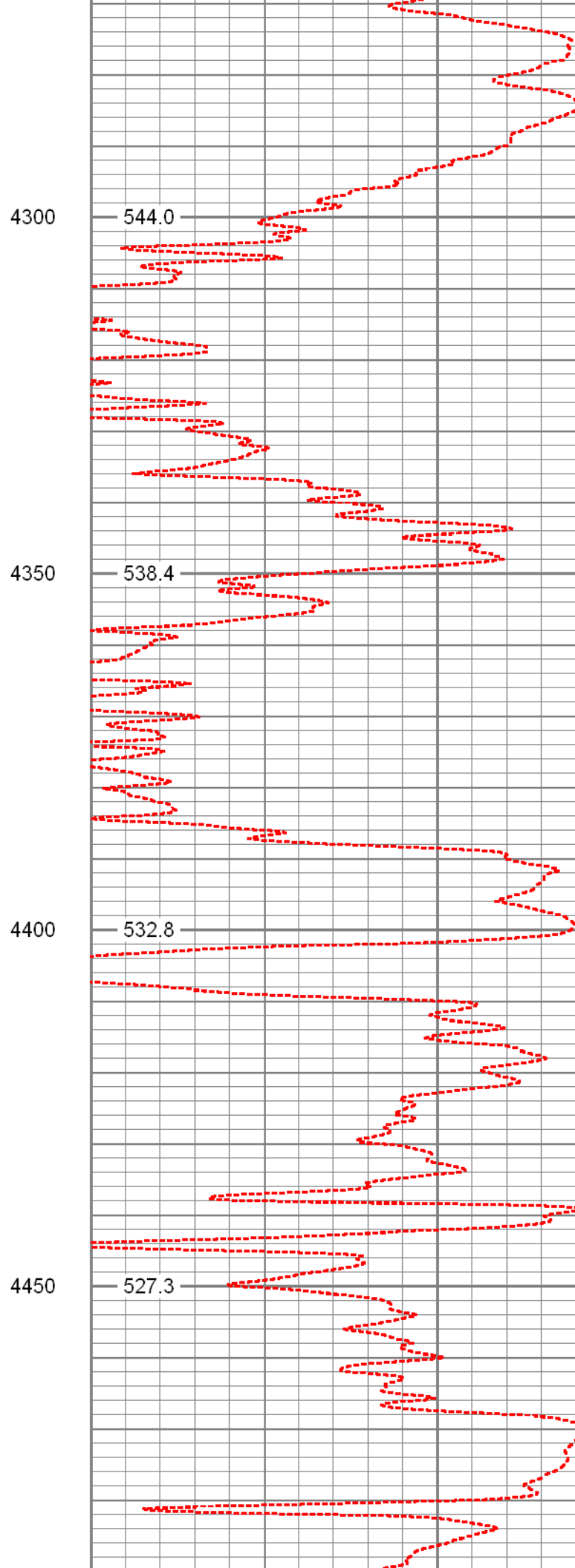
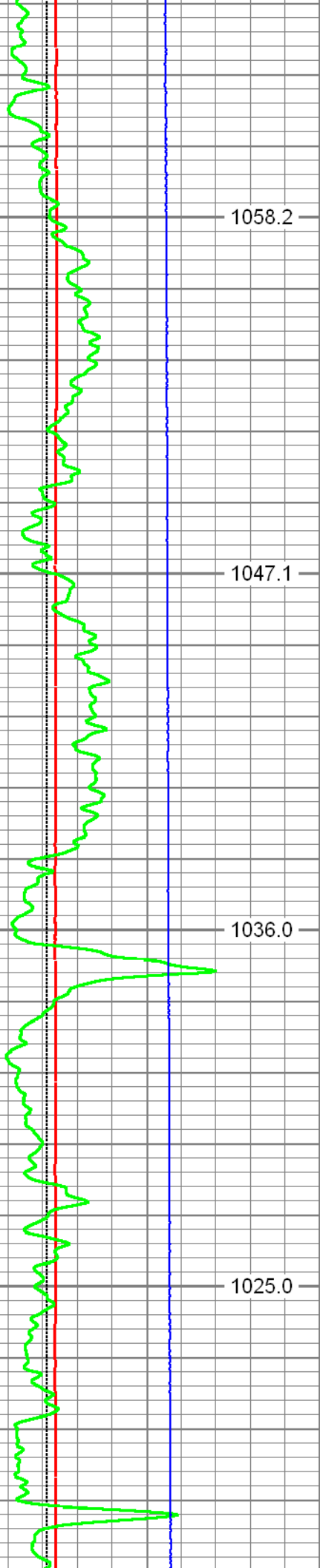
# MAIN PASS

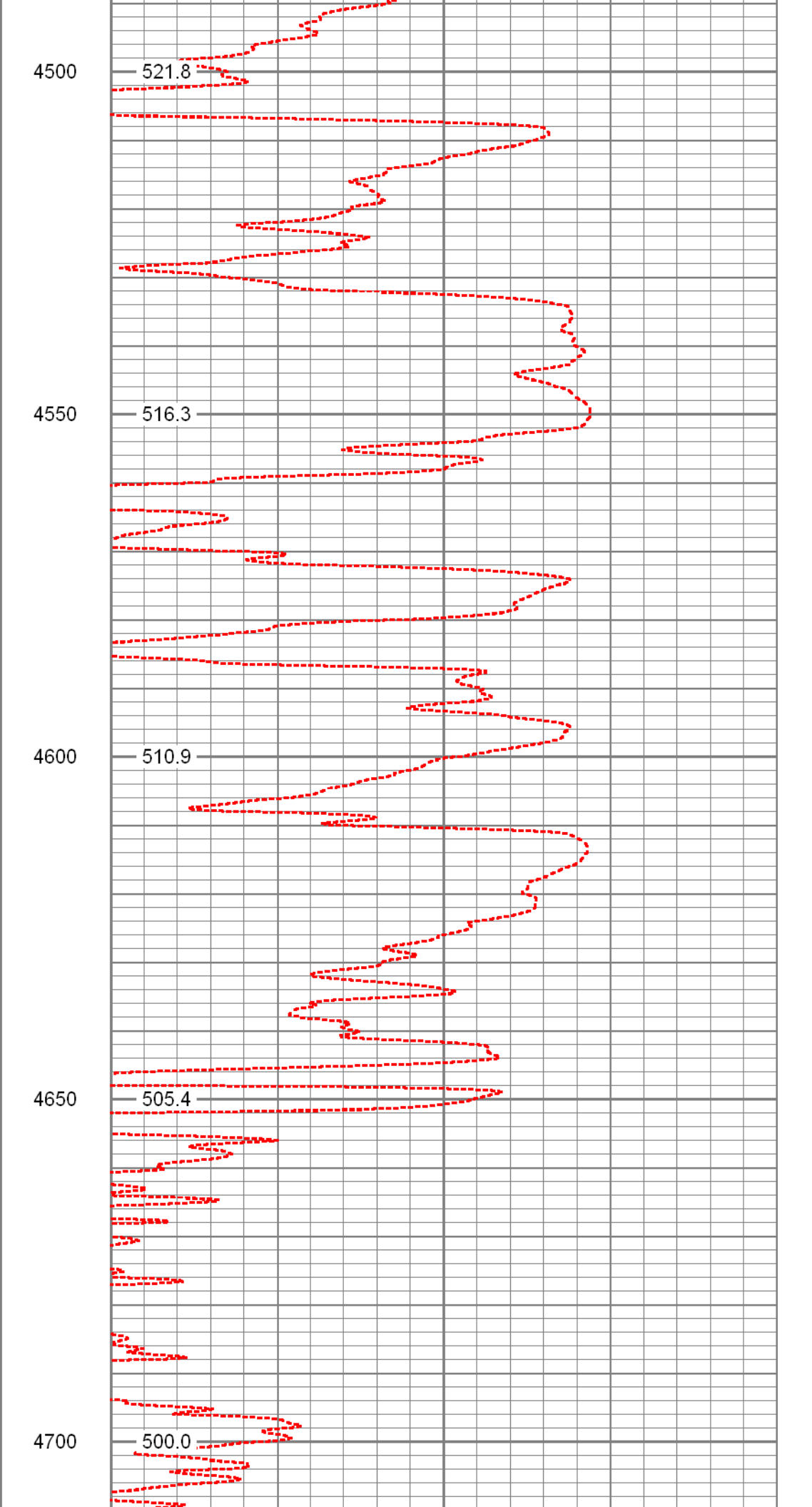
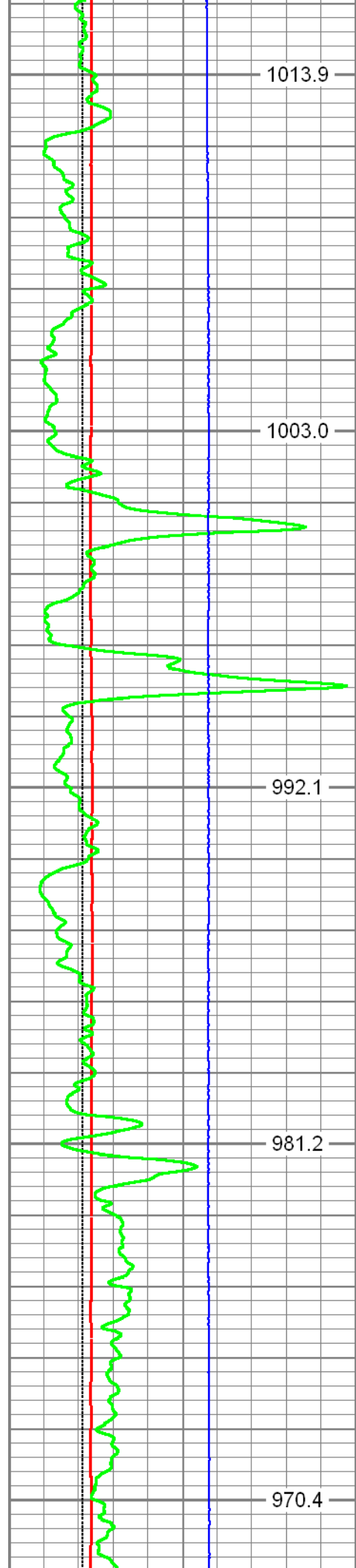
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 Presentation Format: chesp5n  
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 Charted by: Depth in Feet scaled 1:240

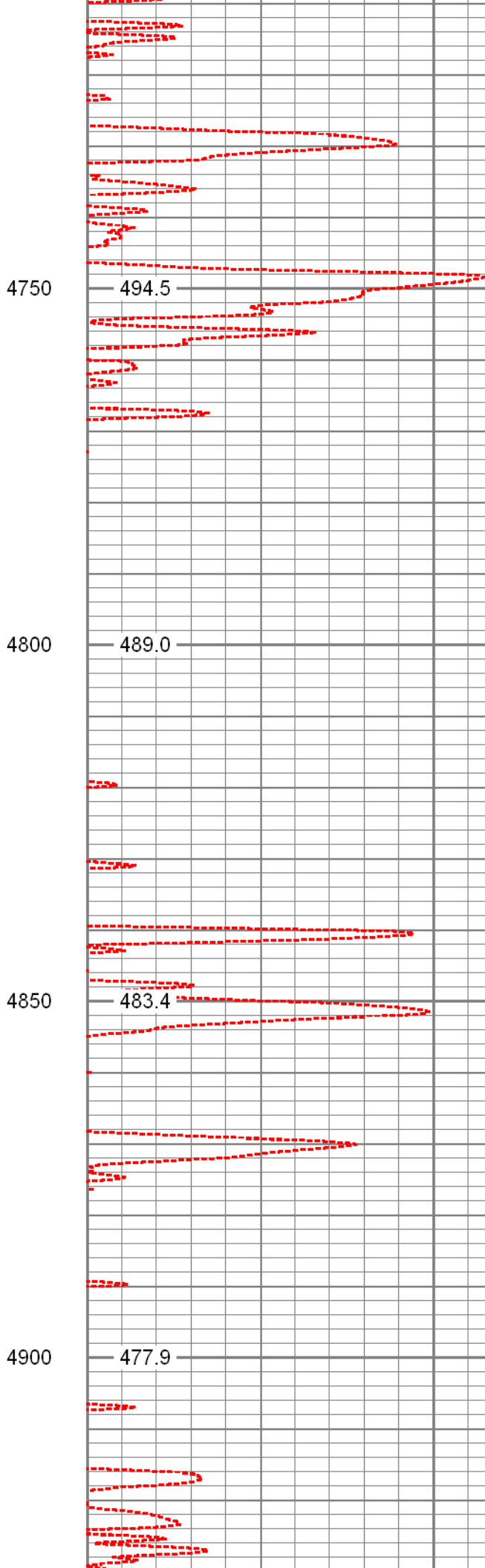
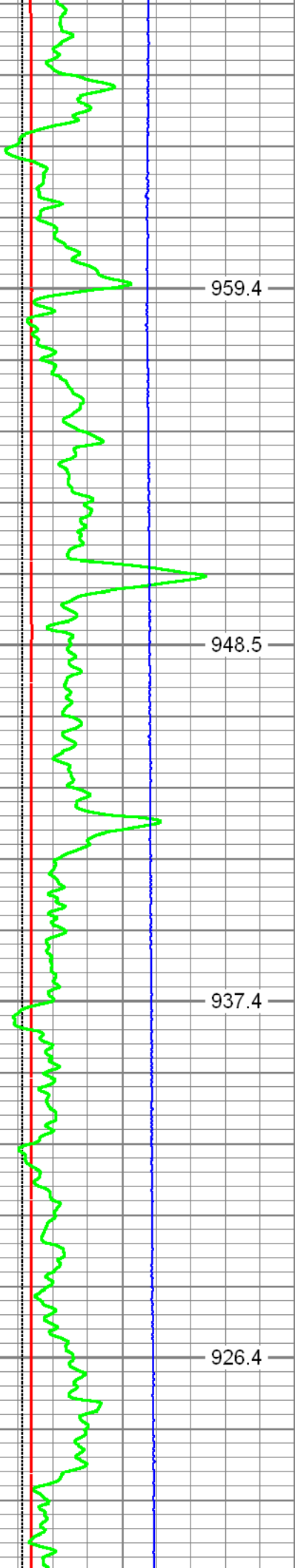
4	DCAL (in)	14
4	BOREID (in)	14
0	GR (GAPI)	150
-5	ACCY	5
	TBHV (ft3)	

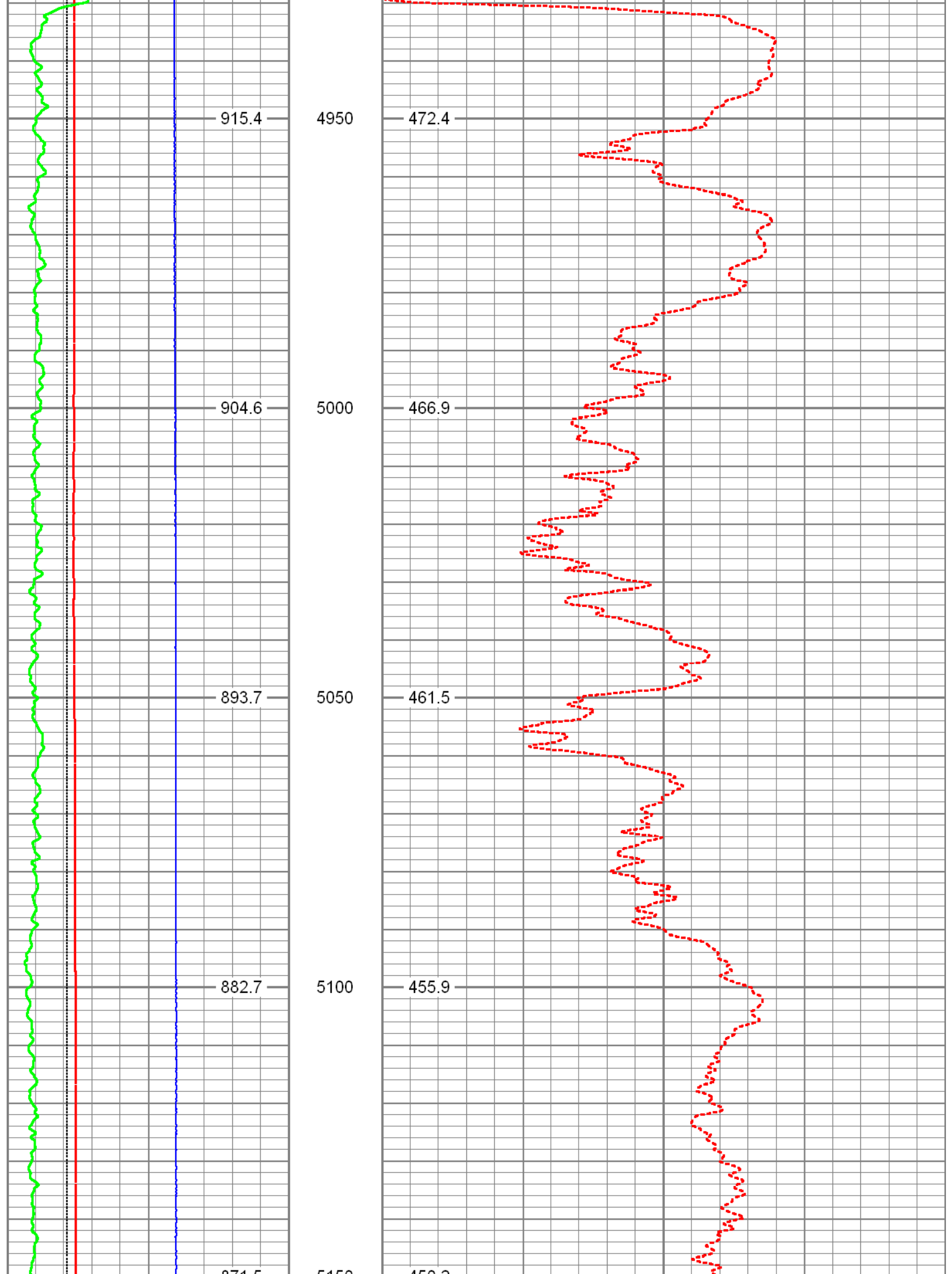
30	CNPOR (pu)	-10			
30	DPHI (pu)	-10			
0	PEF (barn)	10	-0.5	DRHO (g/cc)	0.5
	ABHV (ft3)				



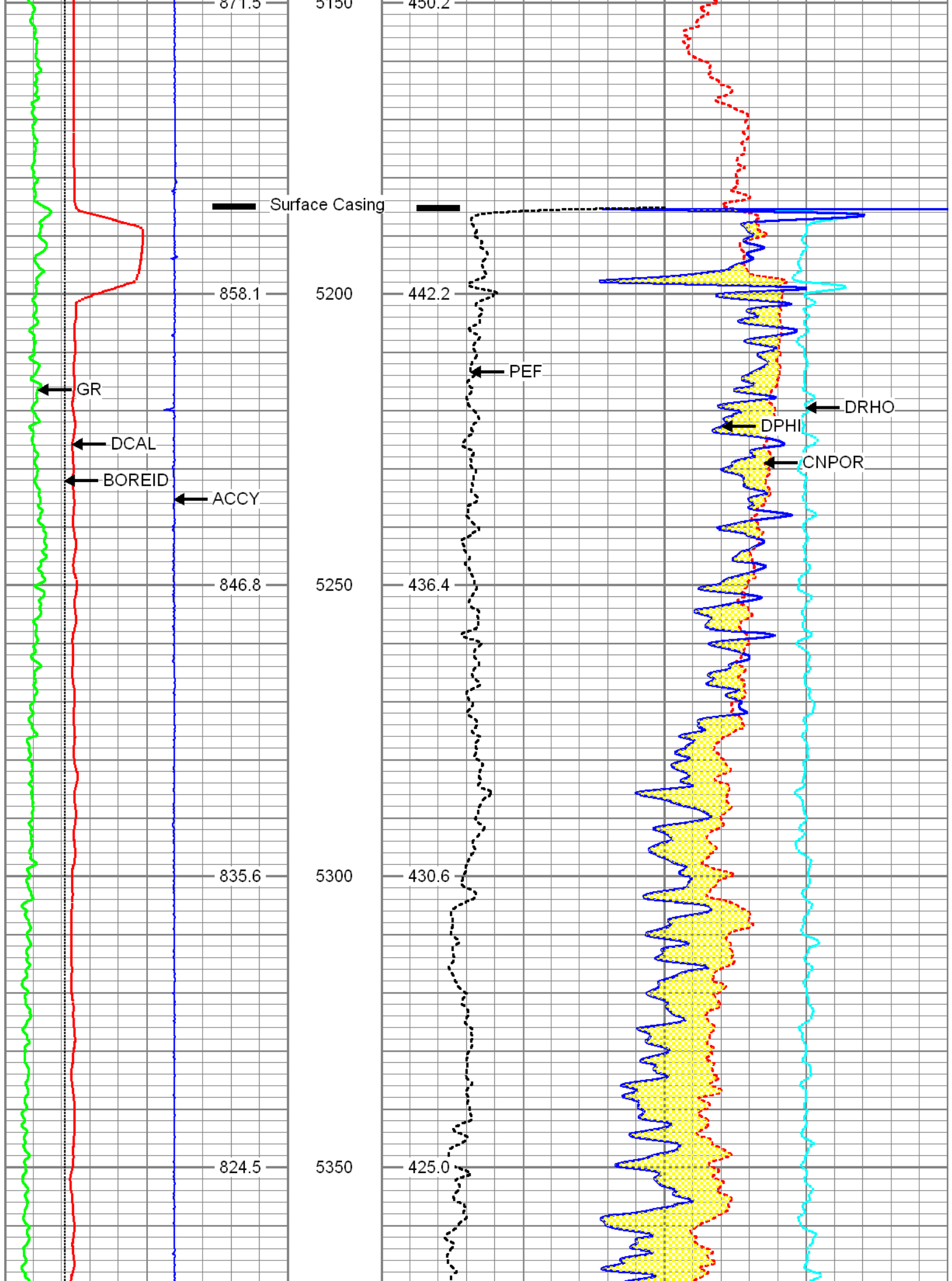


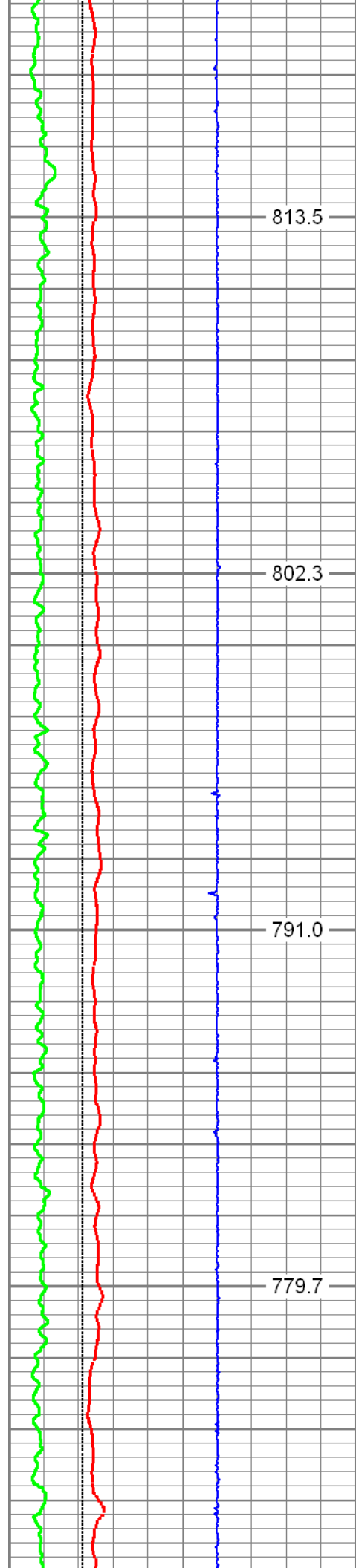










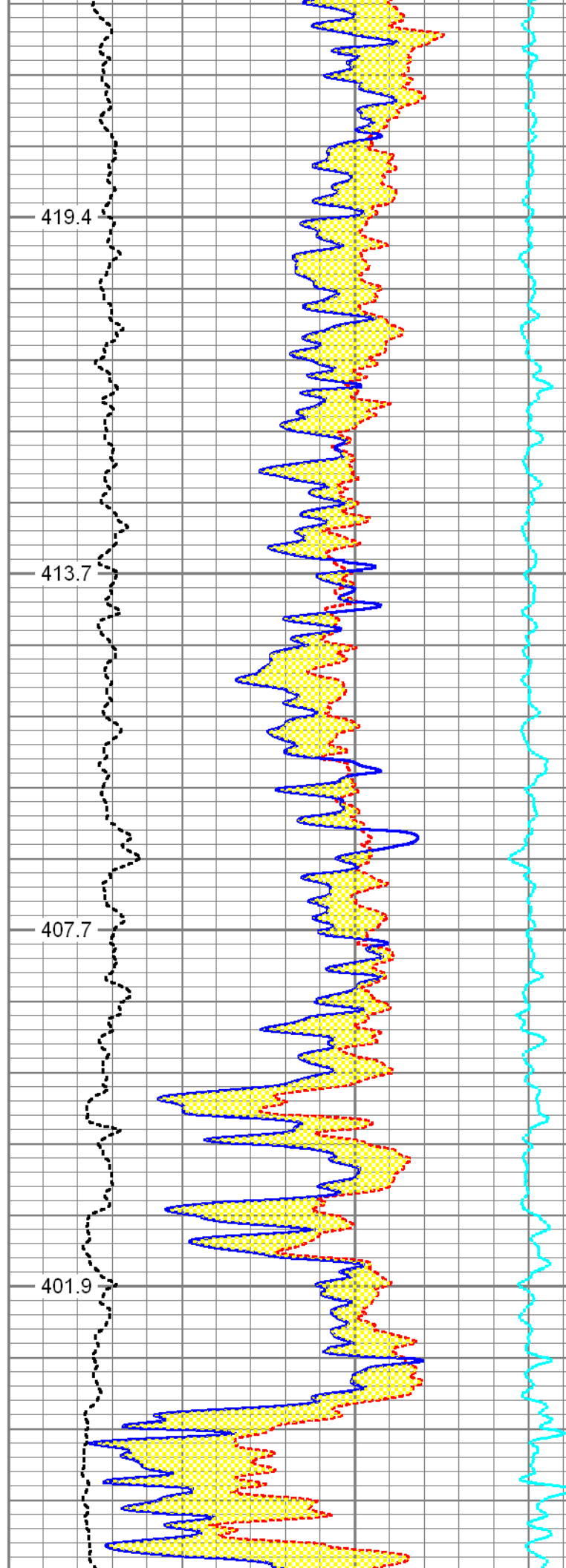


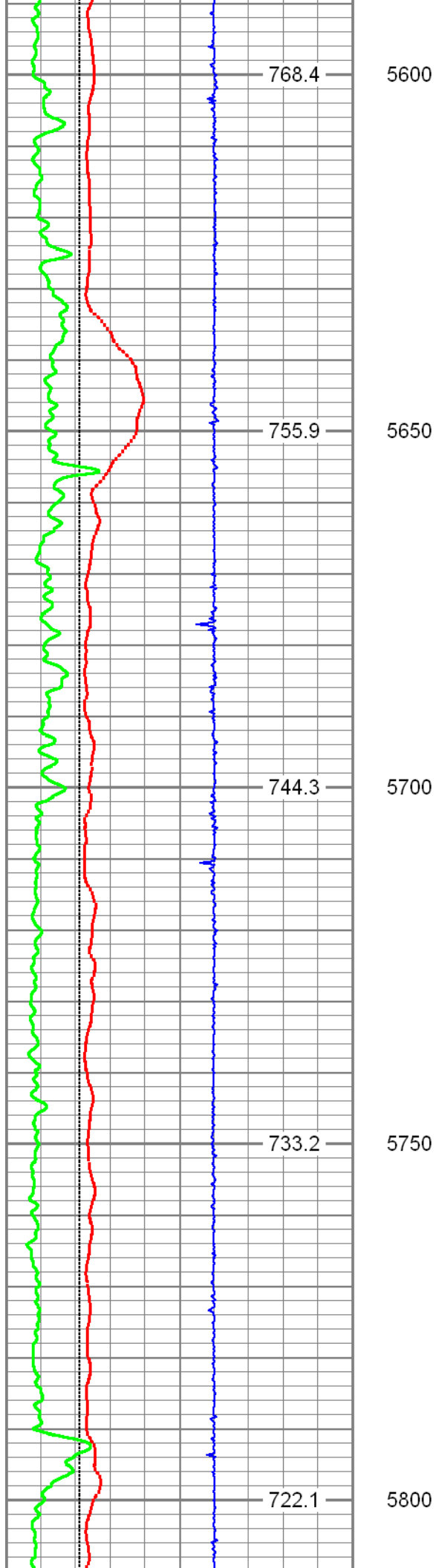
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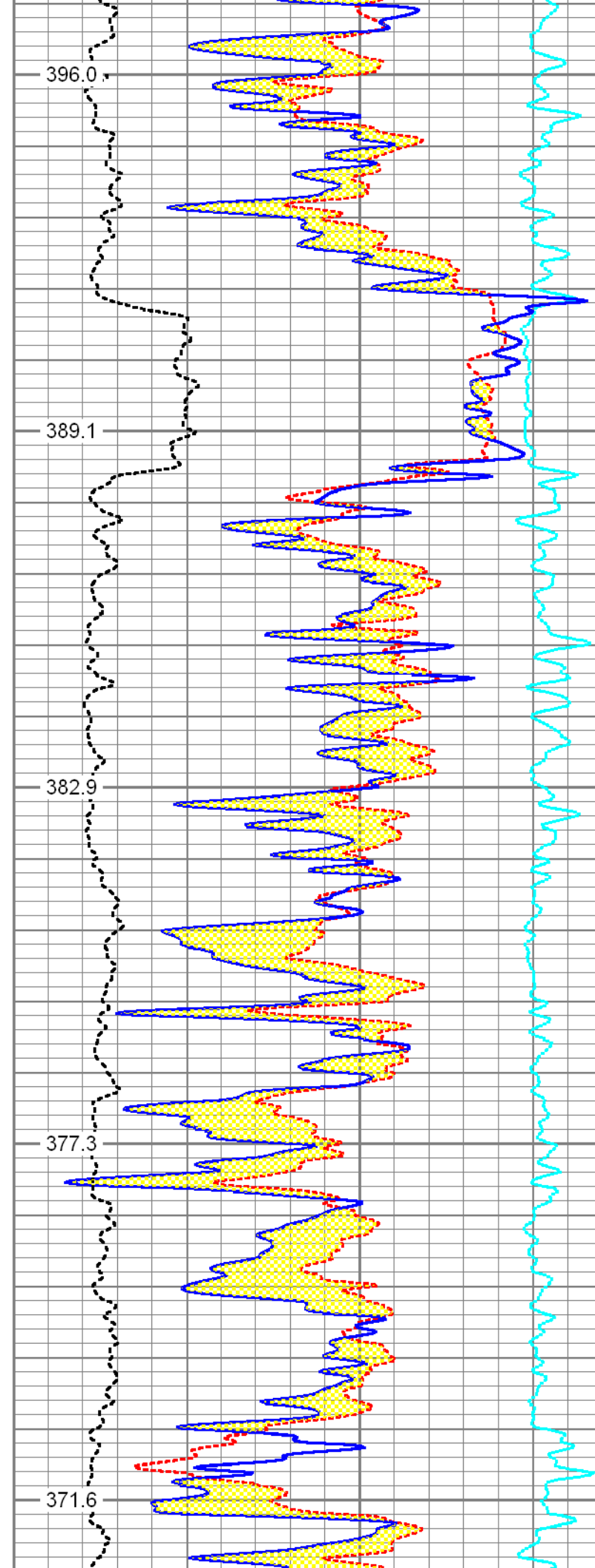
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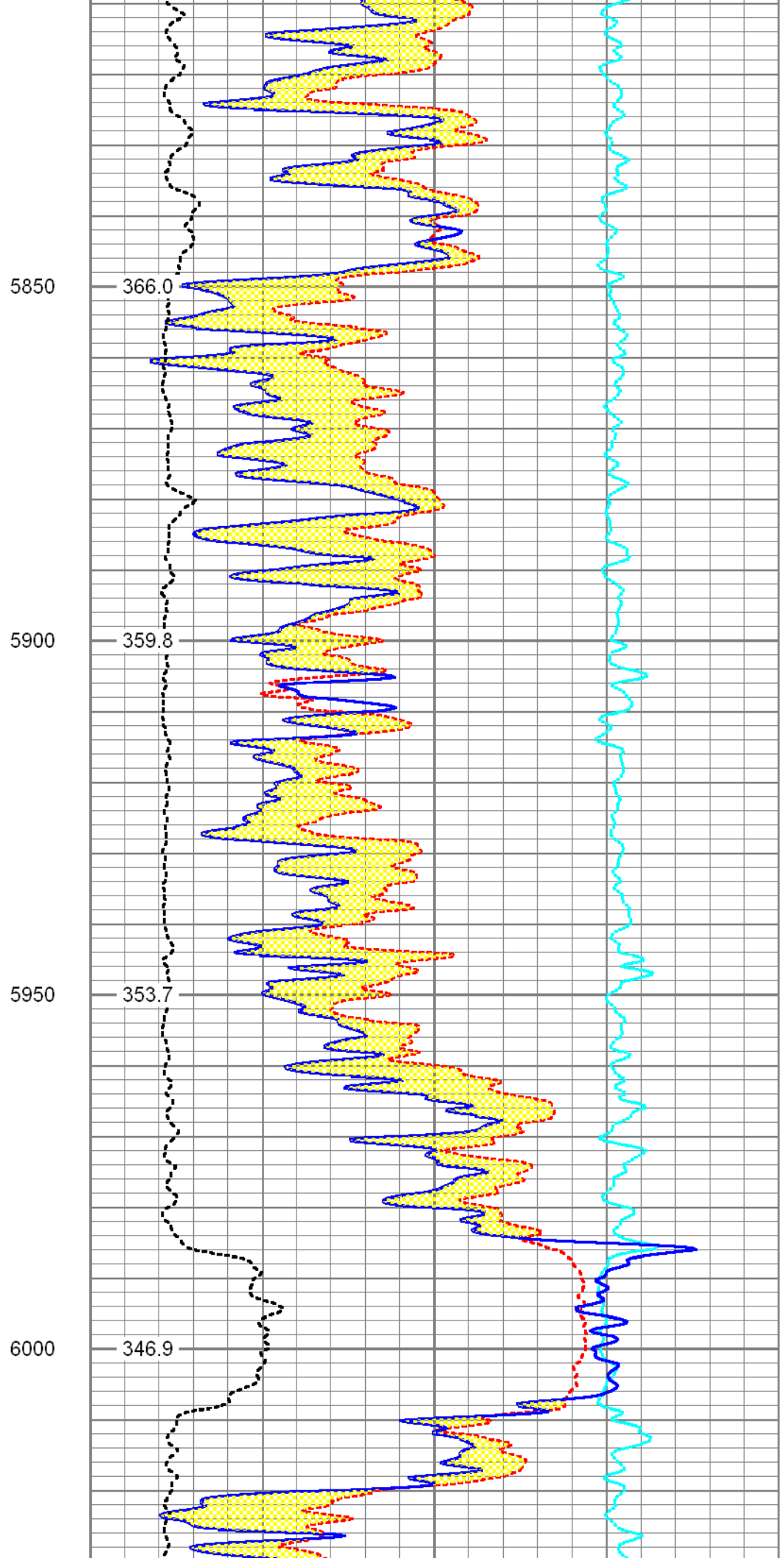
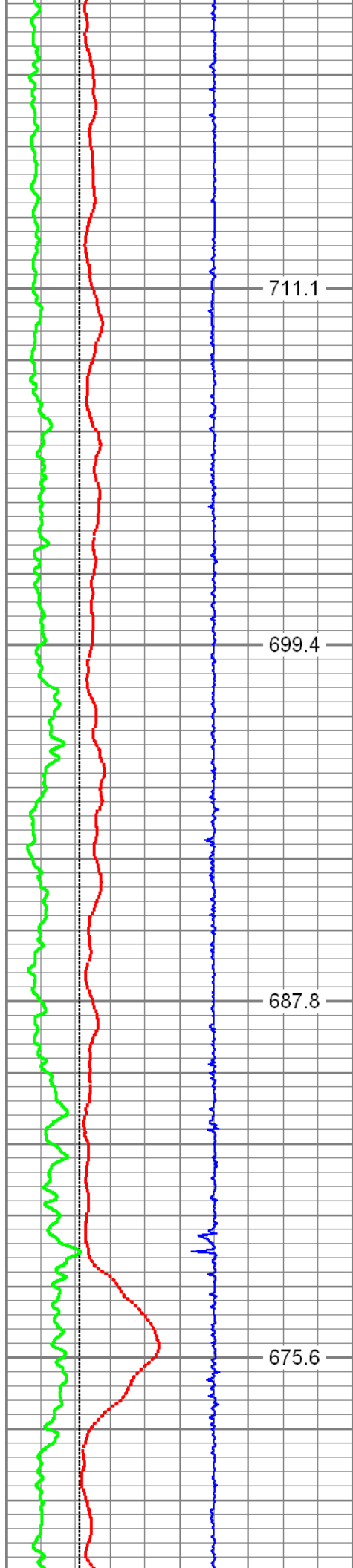
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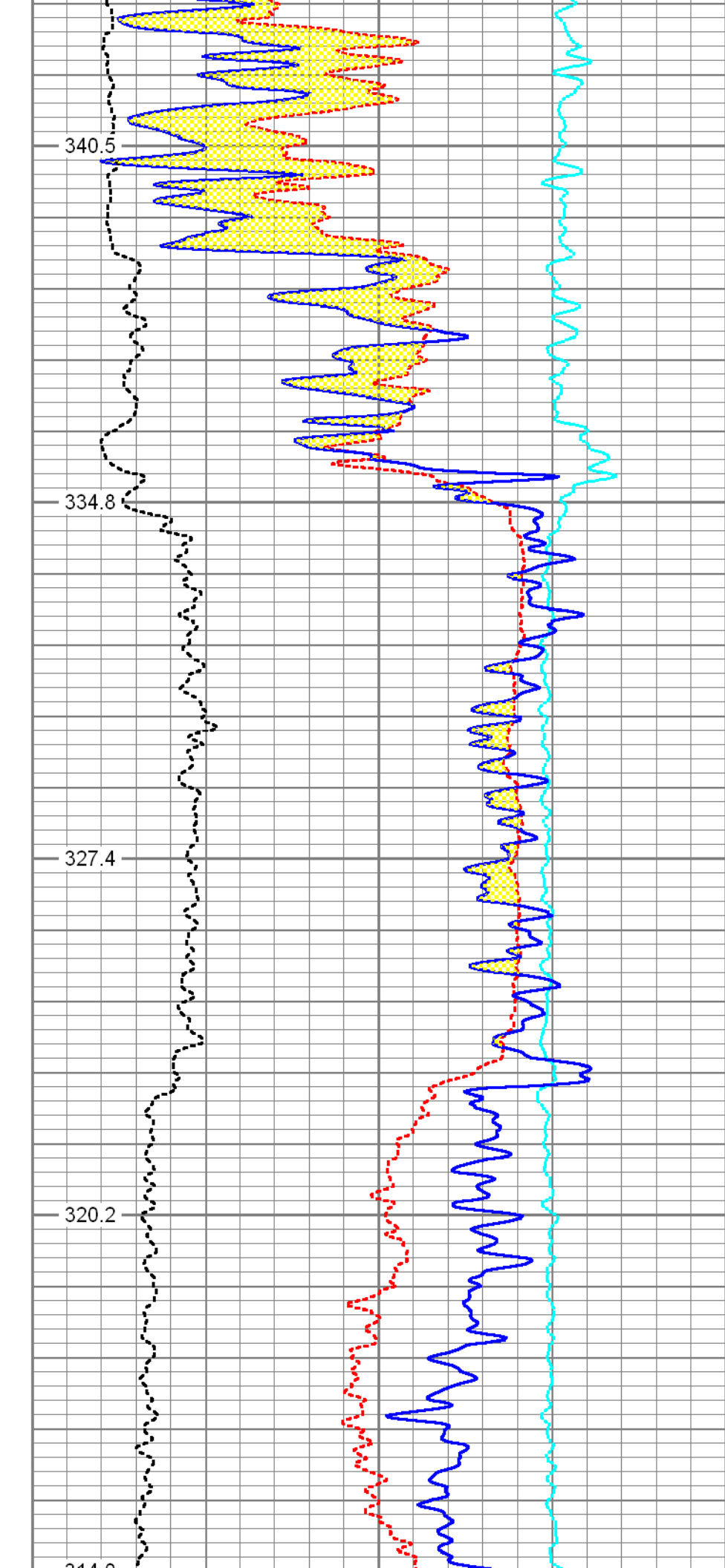
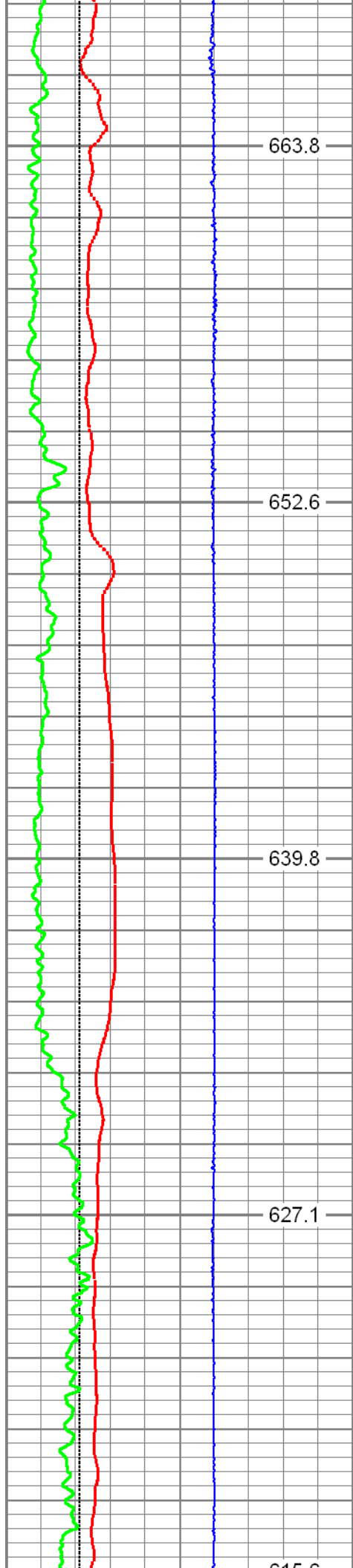


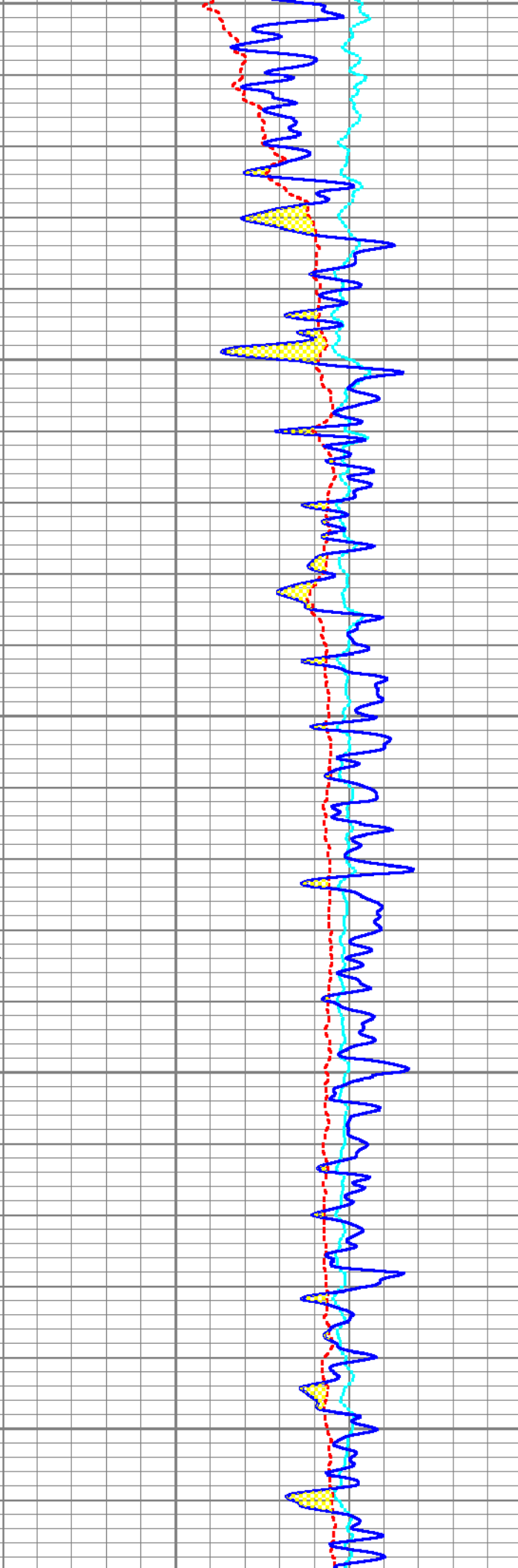
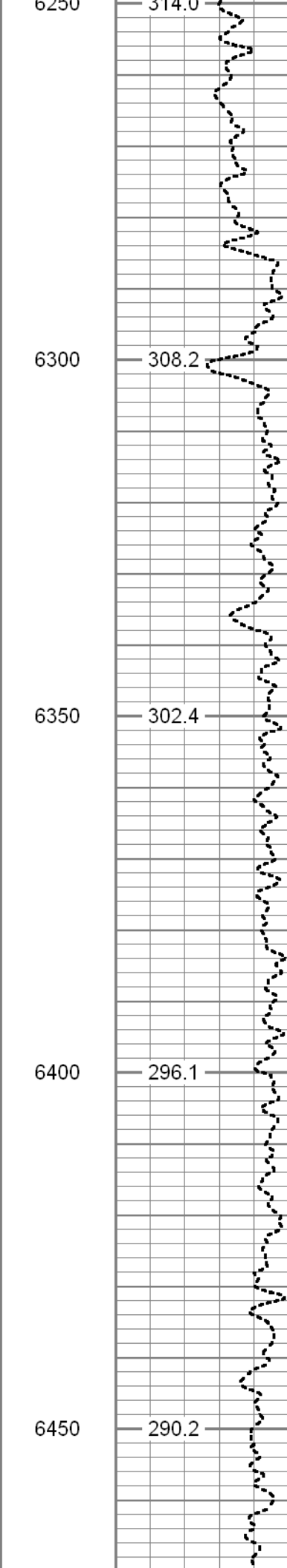
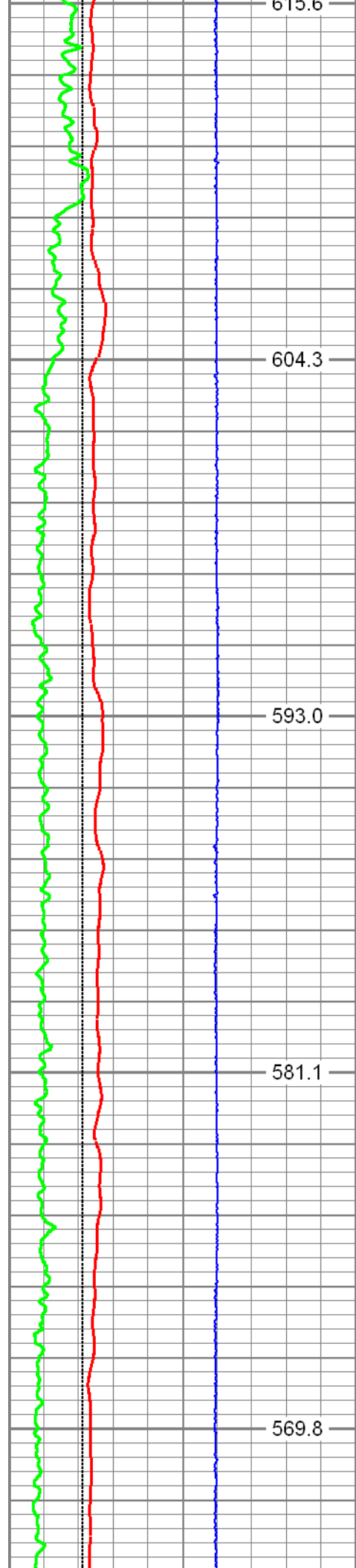


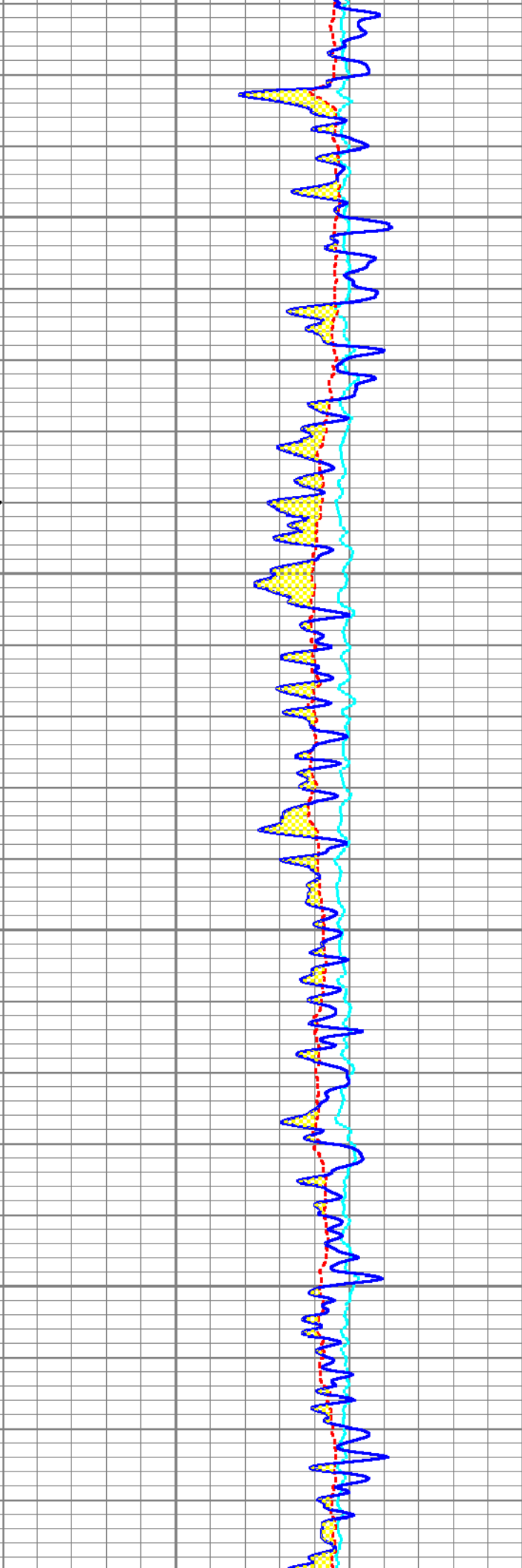
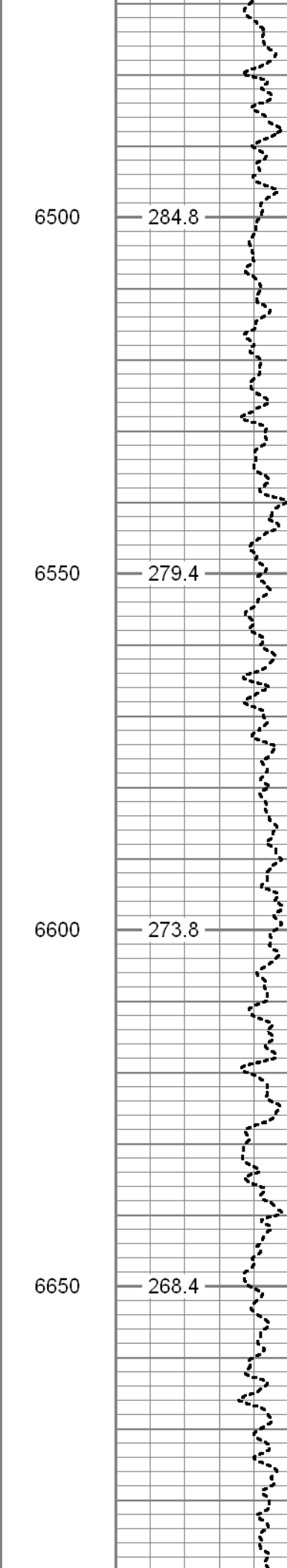
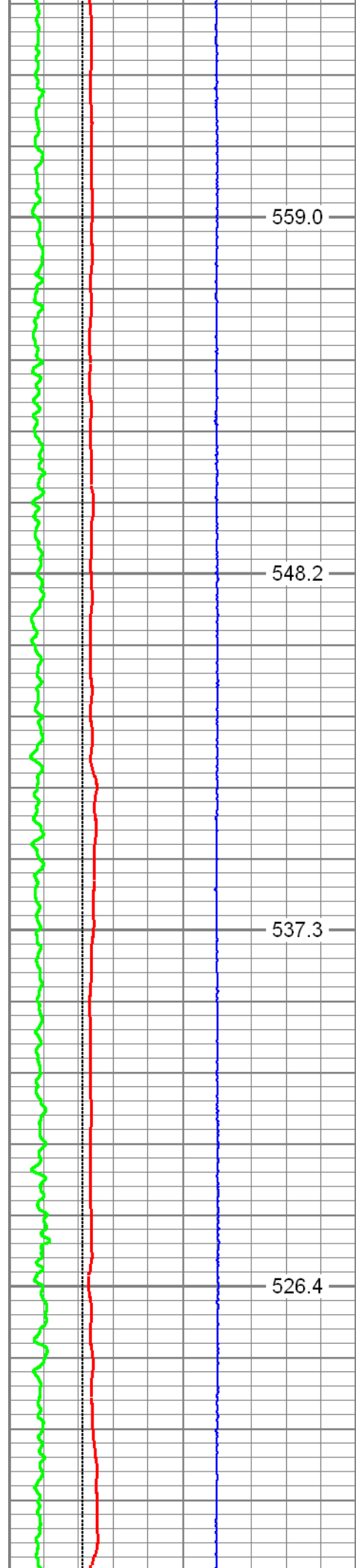
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5700  
5750  
5800

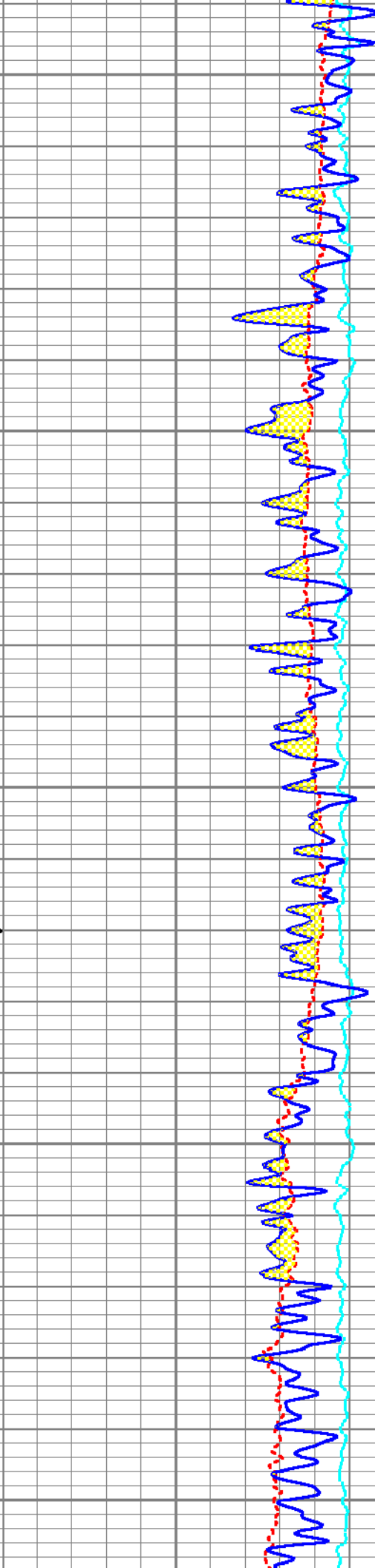
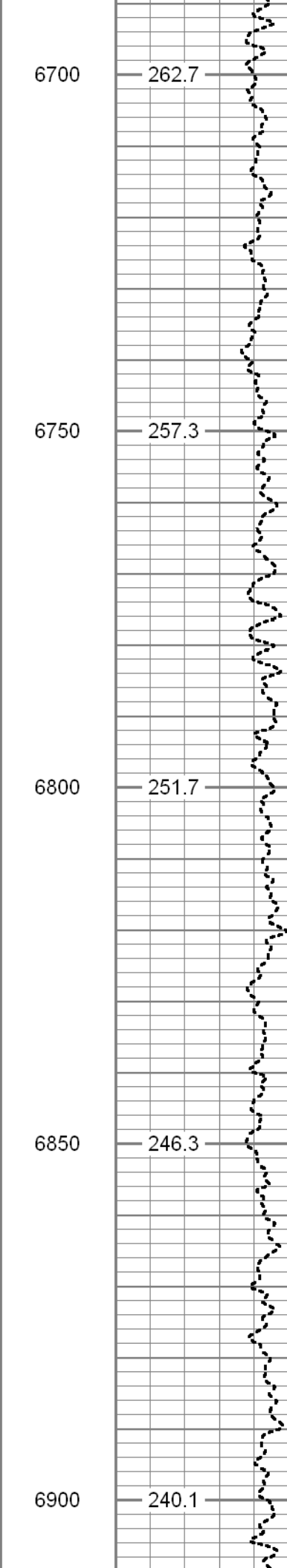
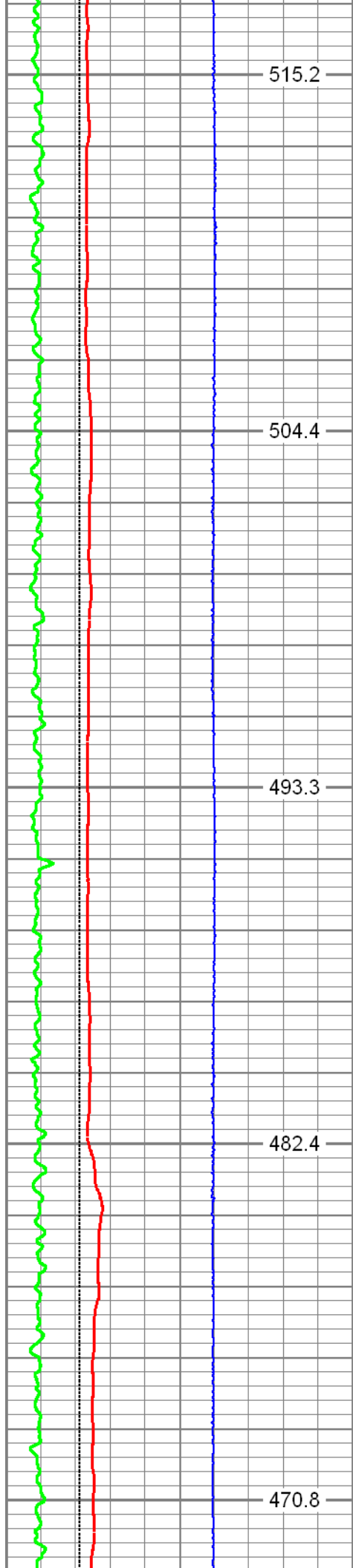




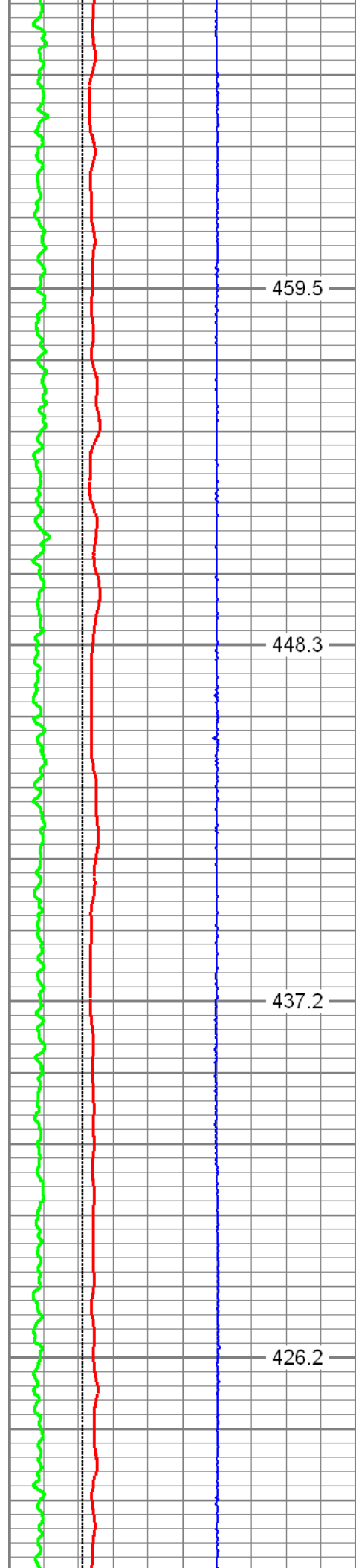












459.5

448.3

437.2

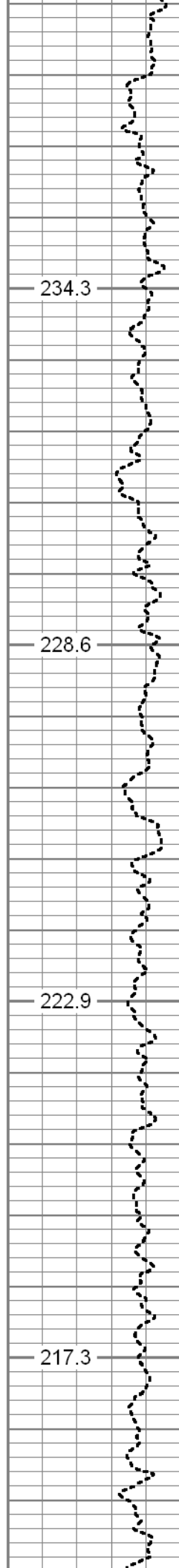
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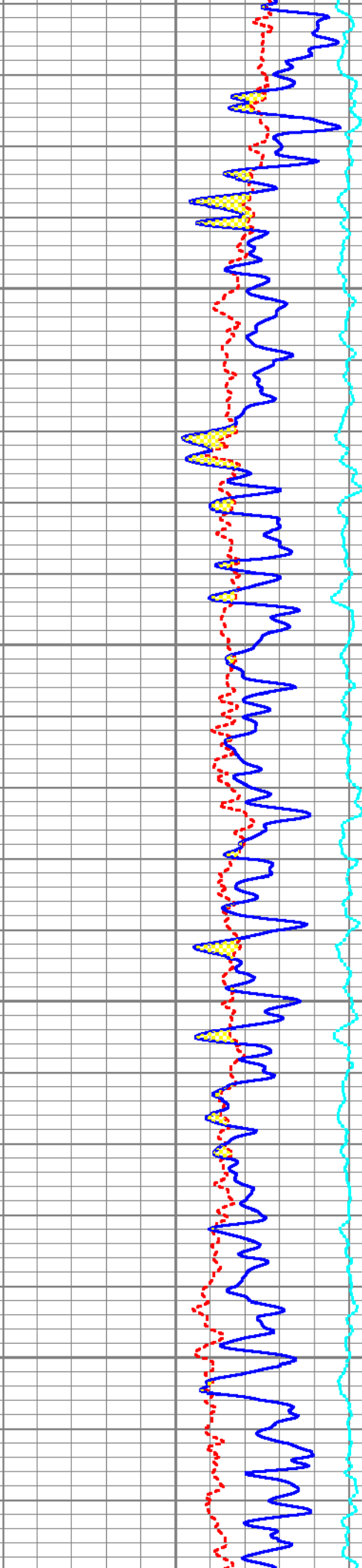


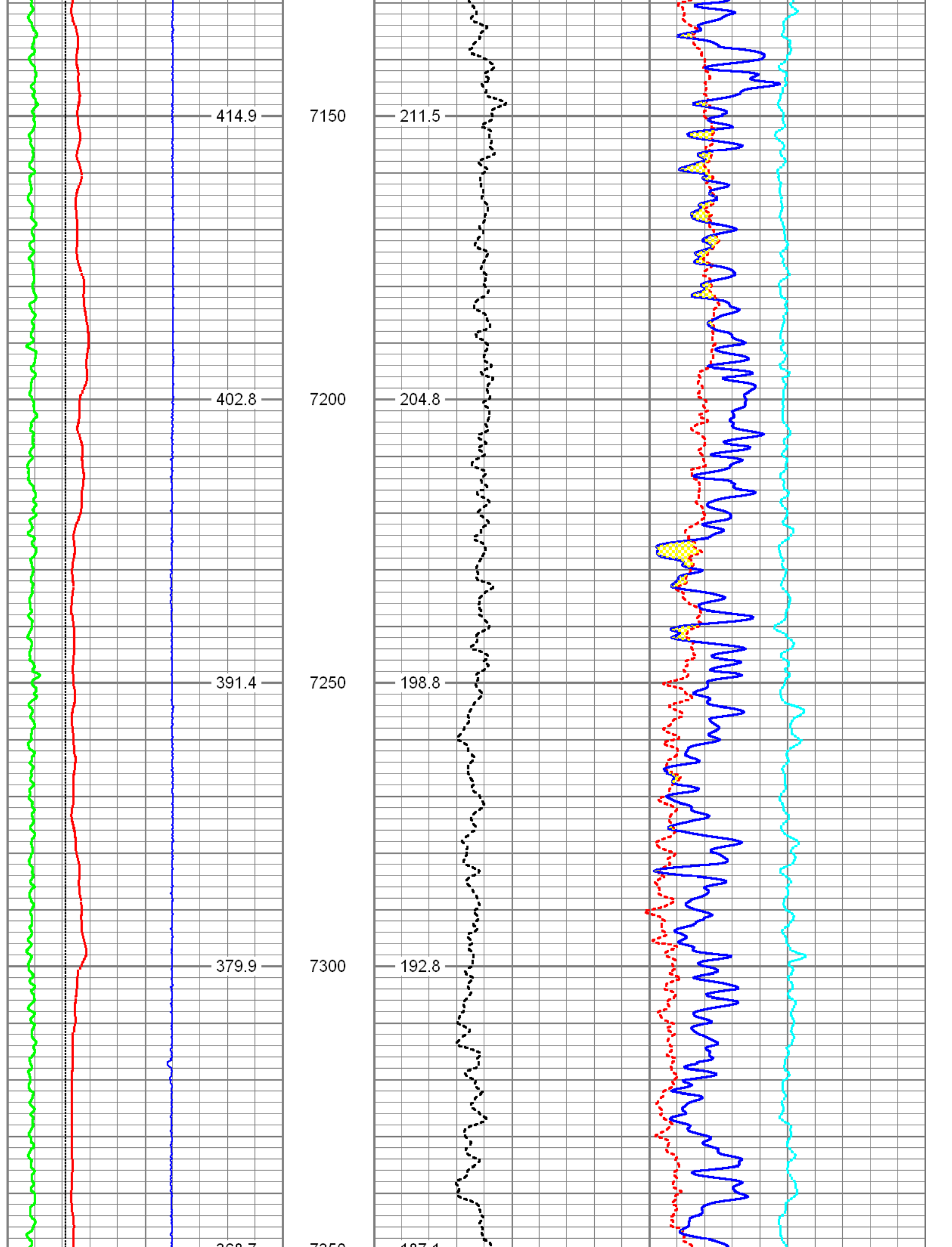
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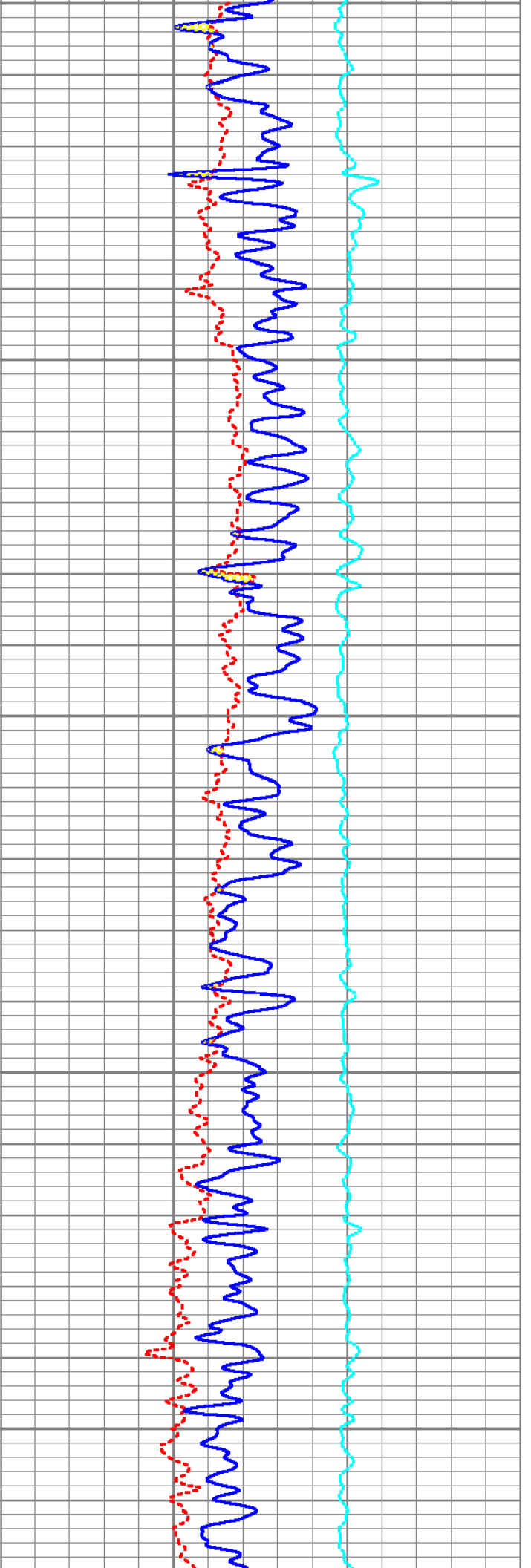
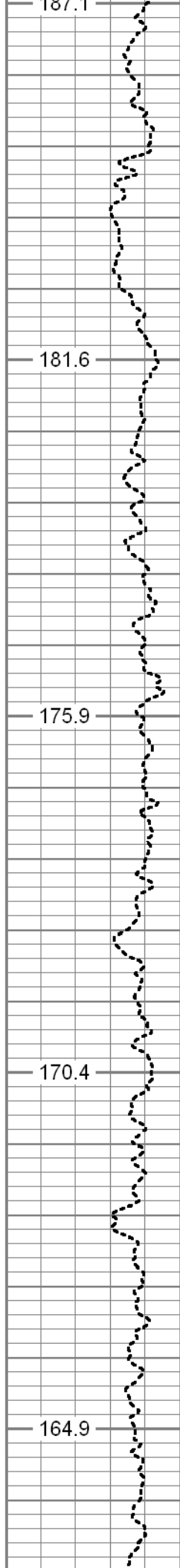
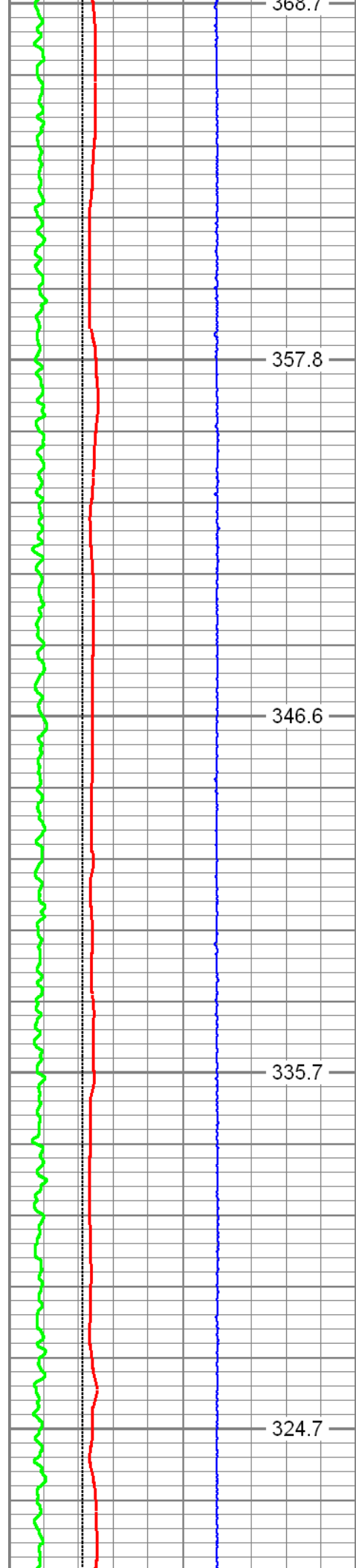
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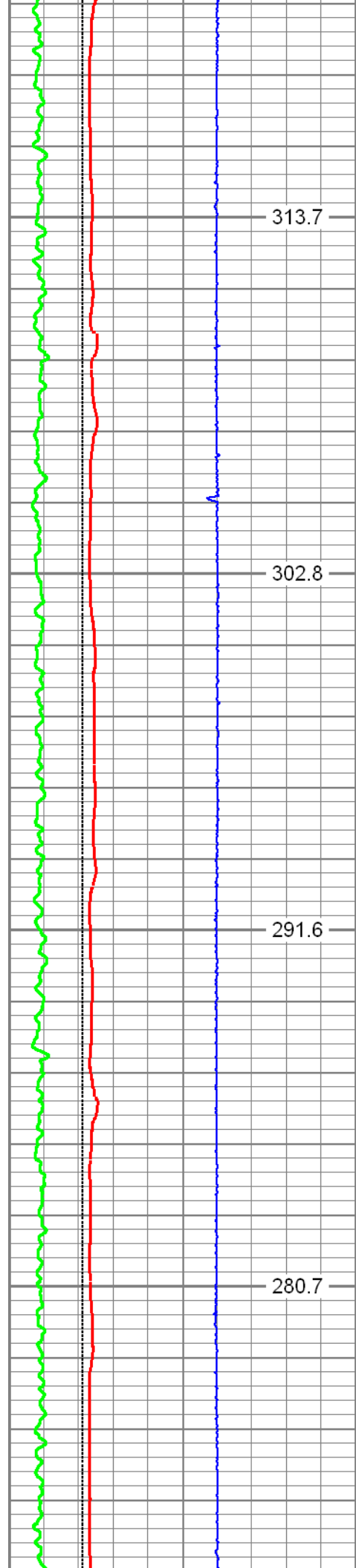
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217.3







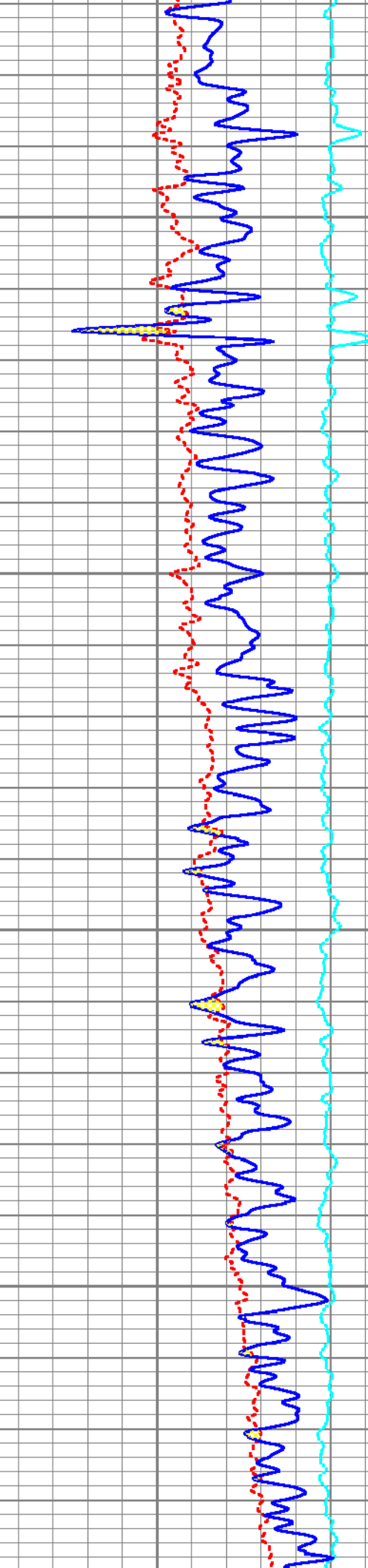
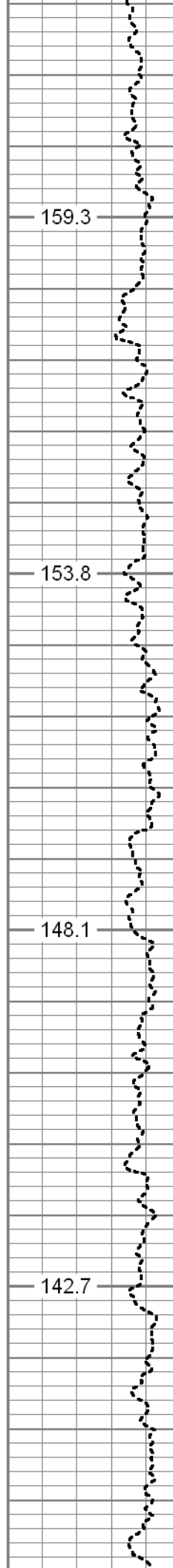


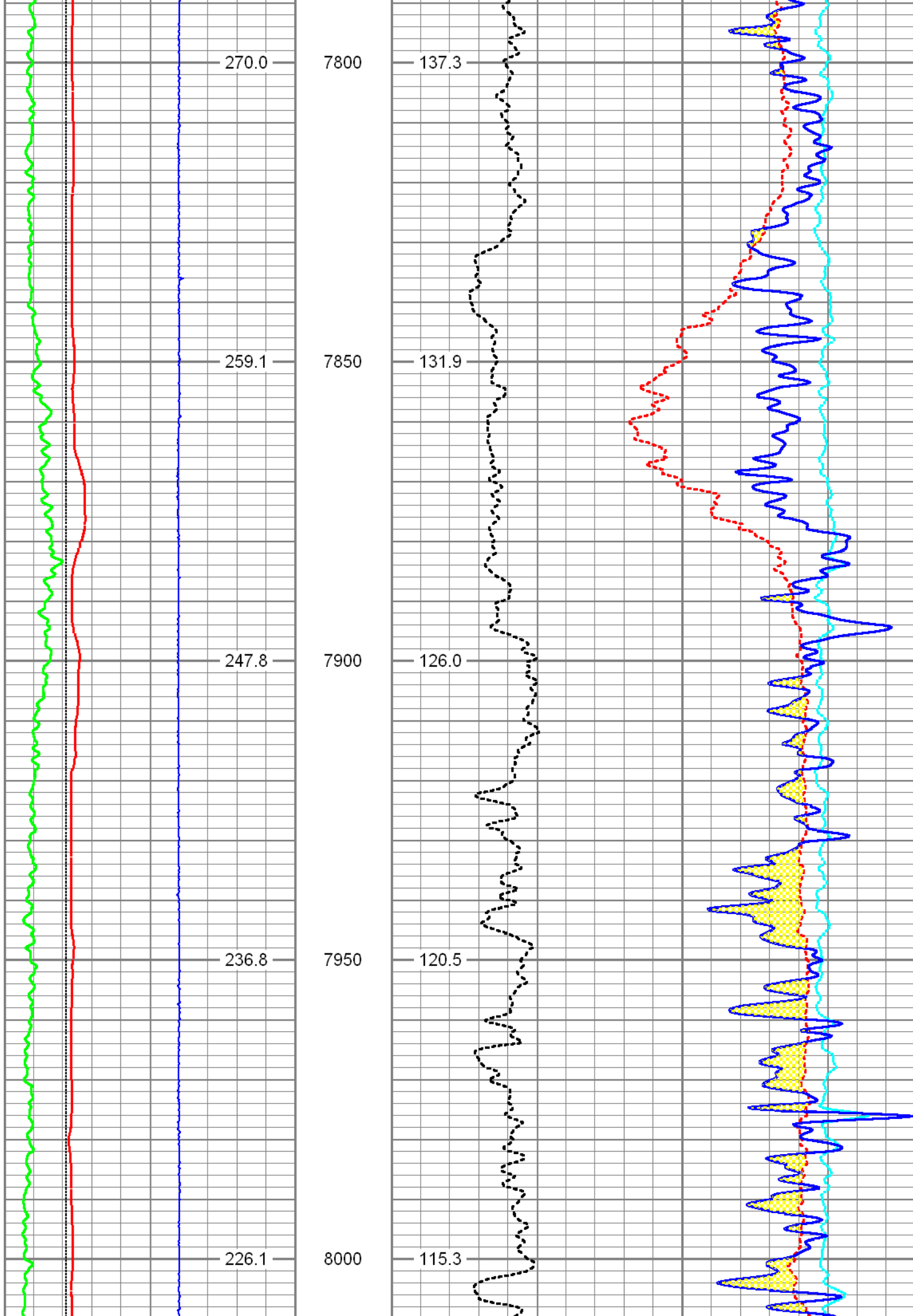
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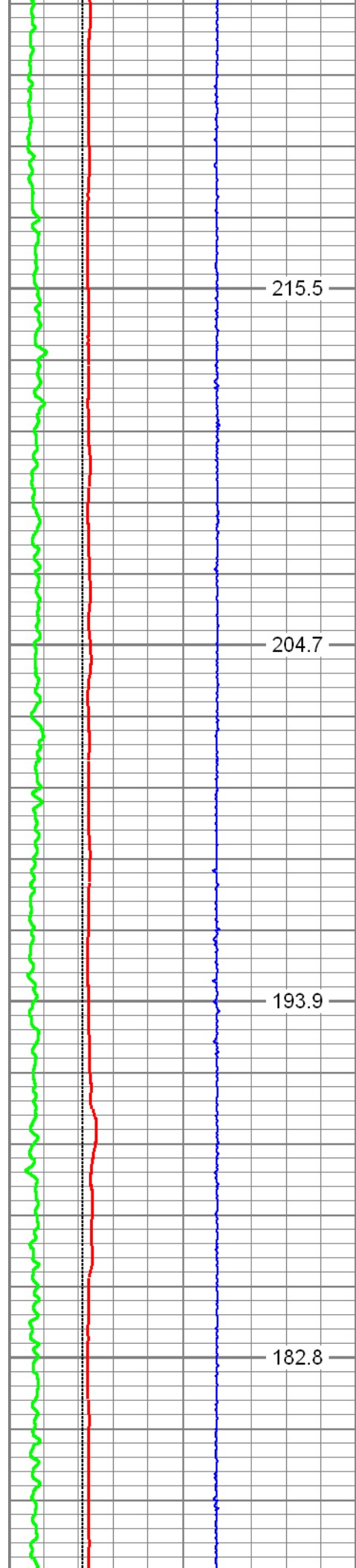
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7700

7750







215.5

204.7

193.9

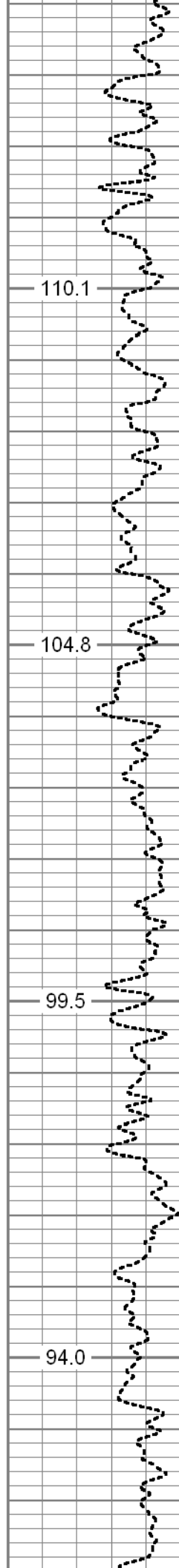
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8050

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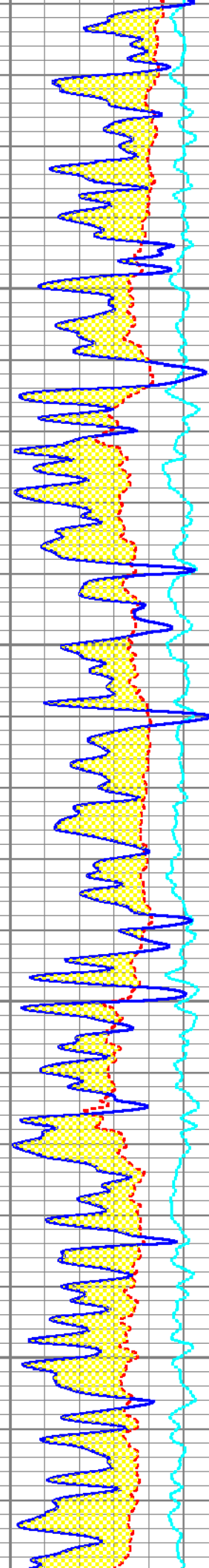


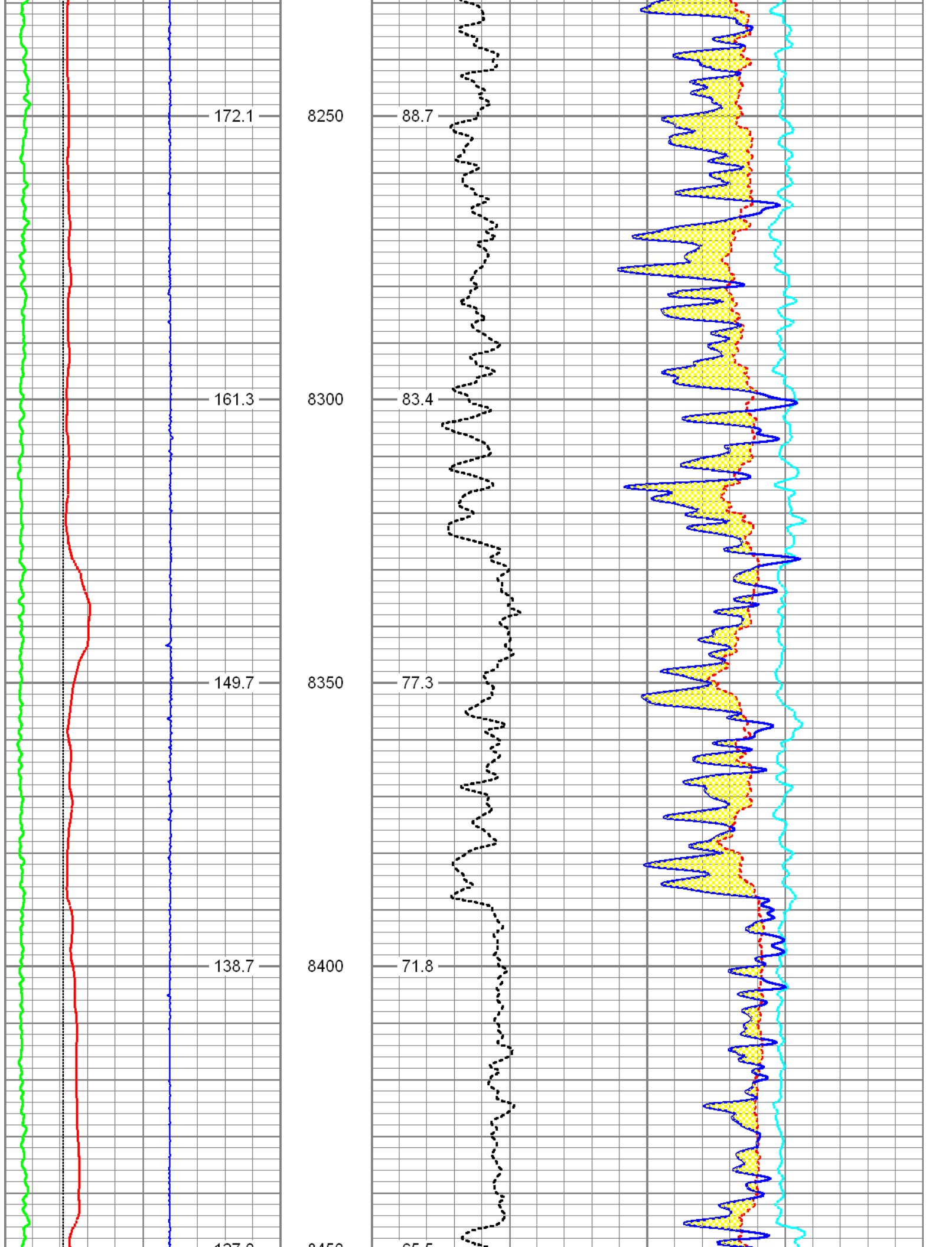
110.1

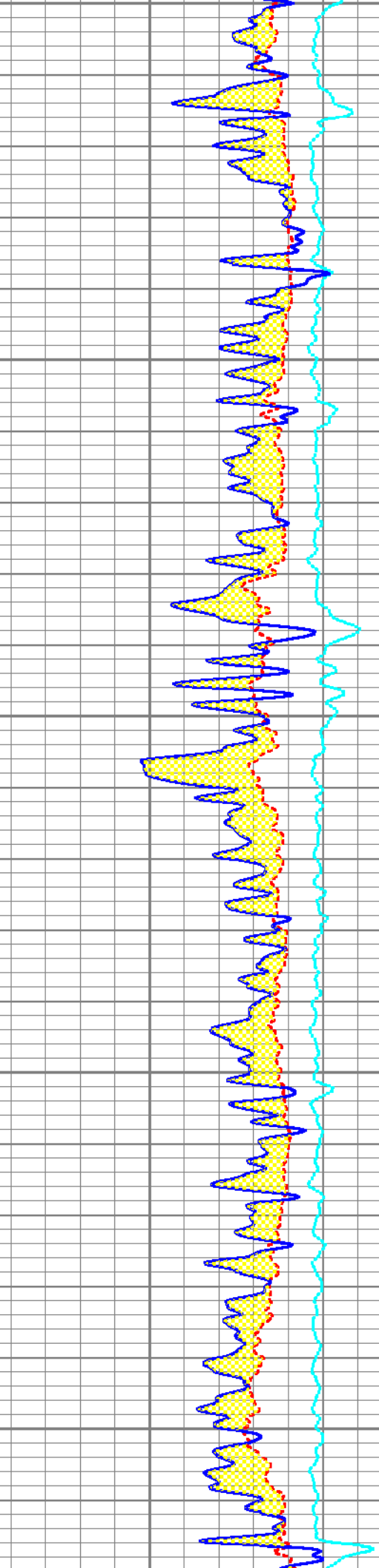
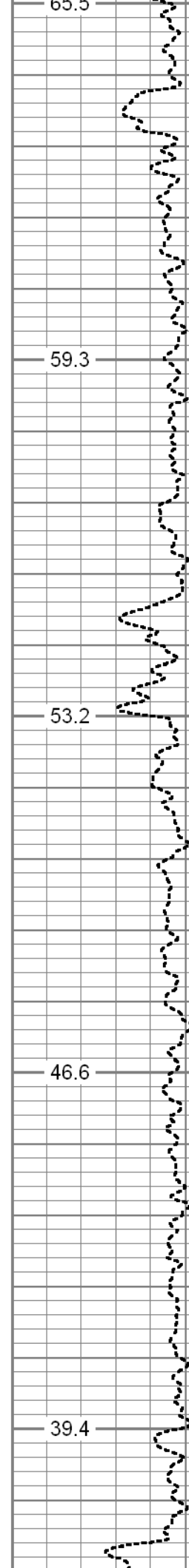
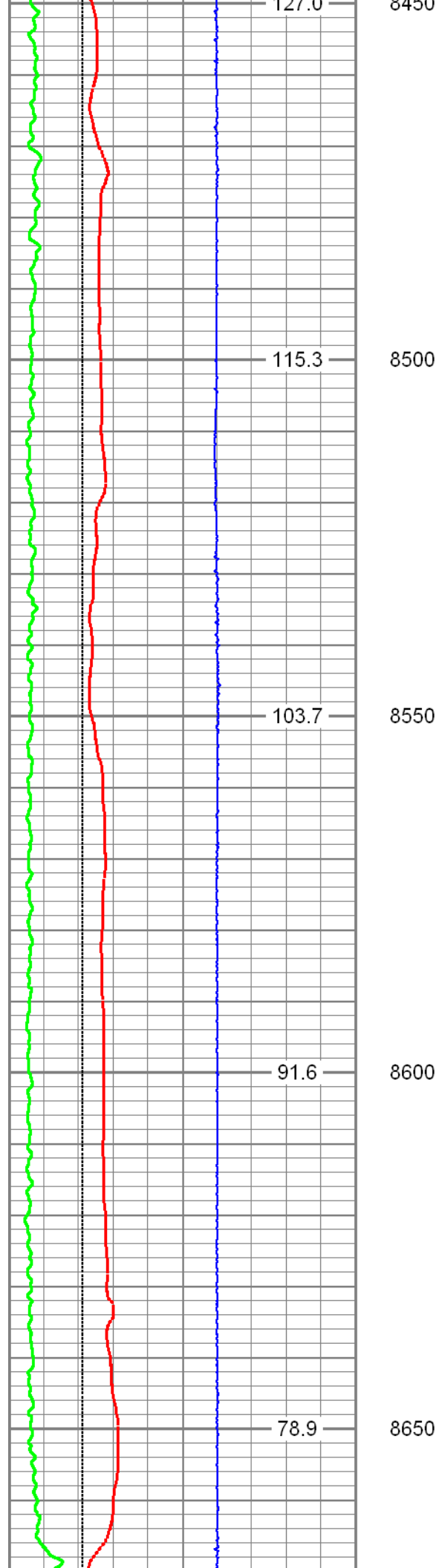
104.8

99.5

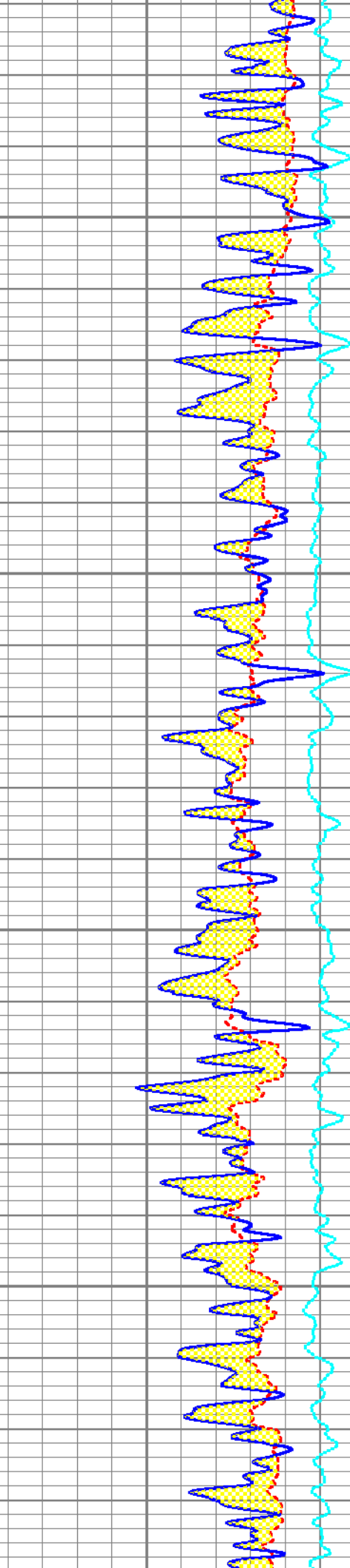
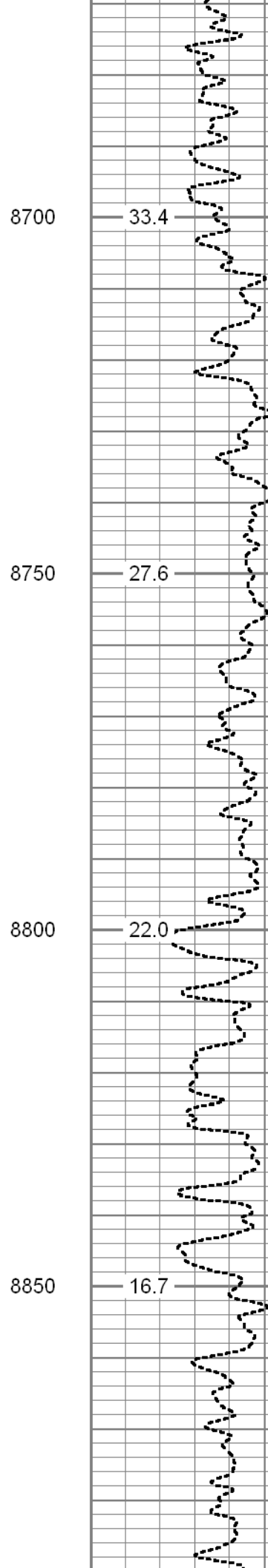
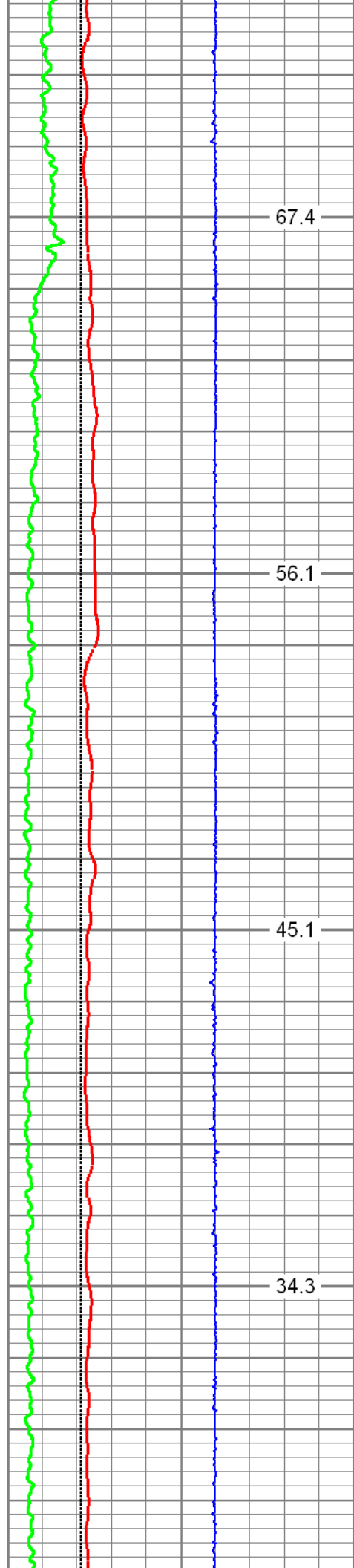
94.0

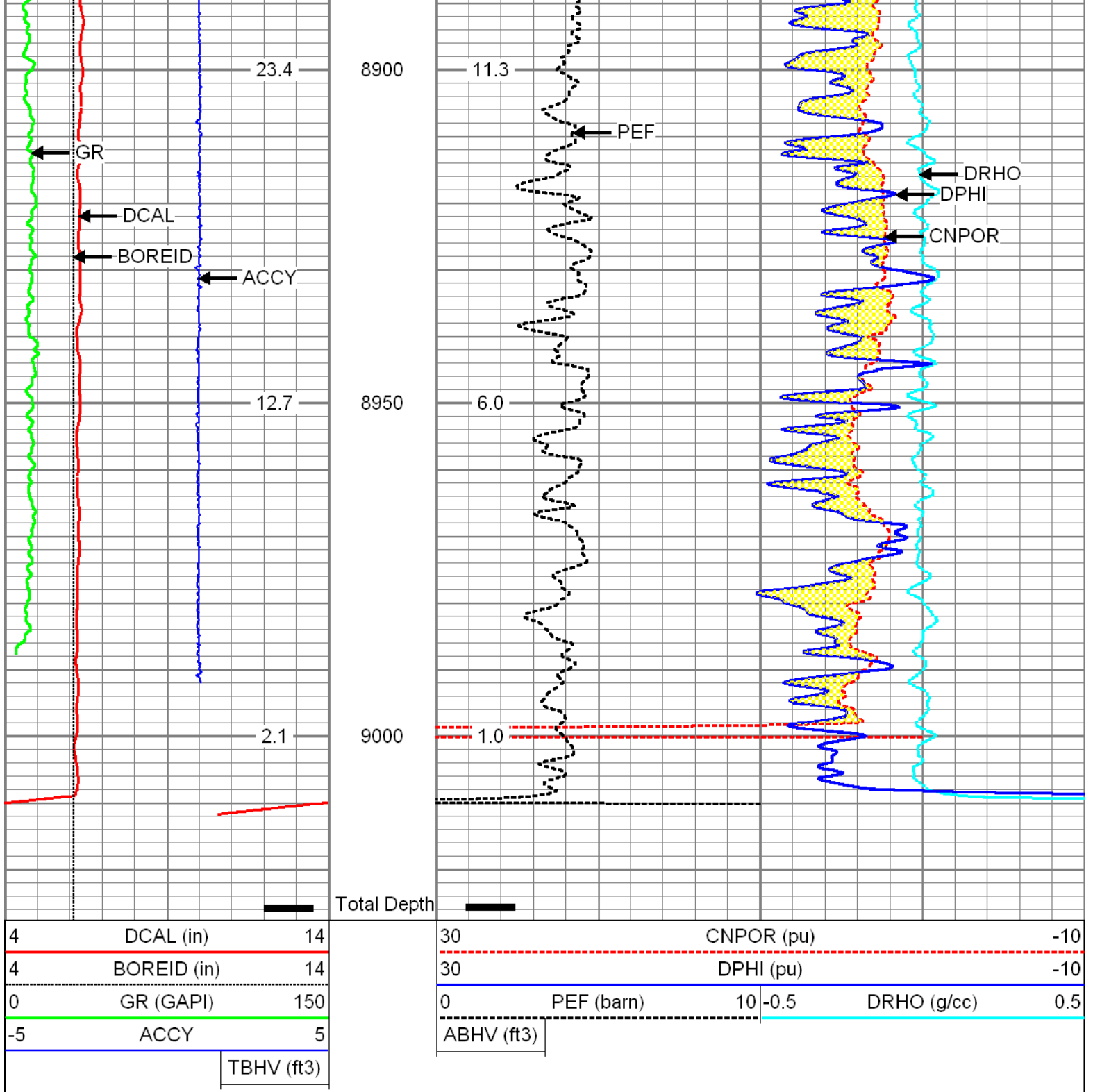












## Log Variables

Database: C:\Warrior\Data\sandridge\_britt\_mem.db  
 Dataset: field/well/proc1/pass1.2

### Top - Bottom

A	BHCOR	BHFL_TYPE	BHIDSRC	BOREID	BOTTEMP	CASED?
1	On	WBM	CURVE	in 6.125	degF 145	No
CASEOD	CASETHCK	CEMWATERSA	CMNTTHCK	FLUIDDEN	FRMSALIN	LATNOR
in 4.5	in 0	kppm 0	in 0	g/cc 1	kppm 0	Off
M	MATRIXDEN	MUDSALIN	MudWgt	NPORSEL	PERFS	RESTMPsrc
	g/cc	kppm	lb/gal			

2	g/cc 2.71	kg/ppm 1.2	lb/gal 8.4	Limestone	0	INTERNAL
SO in 0.5	SRFTEMP degF 65	SZCOR On	TDEPTH ft 9060	TMPCOR On	TOOLPOS Free	

Calibration Report

Database File: sandridge\_britt\_mem.db  
Dataset Pathname: proc1/pass1.2  
Dataset Creation: Sun Oct 02 08:01:47 2011

ThruBit Induction Calibration Report

Serial-Model: 15-PS  
Shop Calibration Performed: Wed Jul 27 09:57:49 2011

BaseLine

	R	X
Freq 1		
A1	-416.1370	372.5410
A2	-152.4940	314.8840
A3	-26.4327	118.7310
A4	-15.0593	219.6400
A5	-13.7591	134.3270
Freq 2		
A1	-204.9750	205.6680
A2	-97.7937	180.2830
A3	-18.8361	27.4327
A4	-18.8506	56.1229
A5	-18.5381	-8.2029
Freq 3		
A1	-122.2030	74.3532
A2	-72.5857	92.8226
A3	-14.3723	-35.9529
A4	-20.2749	-53.6801
A5	-20.5684	-111.6360
Freq 4		
A1	-61.4427	-116.4680
A2	-49.8873	-25.3842
A3	-10.7600	-129.7020
A4	-23.5591	-218.7220
A5	-25.8085	-284.1170

Calibration Coefficients

	R	X
Freq 1		
A1	0.9920	0.0043
A2	0.9868	0.0033
A3	0.9936	-0.0050
A4	0.9908	0.0053
A5	0.9904	0.0033

A5	0.9904	0.0032
Freq 2		
A1	0.9862	-0.0058
A2	0.9803	-0.0060
A3	0.9816	-0.0068
A4	0.9855	-0.0040
A5	0.9854	-0.0066
Freq 3		
A1	1.0017	-0.0044
A2	0.9960	-0.0044
A3	0.9971	-0.0053
A4	1.0006	-0.0023
A5	1.0002	-0.0034
Freq 4		
A1	0.9881	-0.0055
A2	0.9832	-0.0045
A3	0.9864	-0.0075
A4	0.9883	-0.0025
A5	0.9907	-0.0052
Temperature	38.6248	

### ThruBit Density Calibration Report

Serial-Model: 41-PS  
 Shop Calibration Performed: Thu Sep 22 12:44:17 2011

#### References

	Density	Units
Aluminium	2.602	g/cc
Magnesium	1.715	g/cc

#### Readings

	Counts	Units
SS1 Background	146.88	cps
LS1 Background	163.47	cps
LS4 Background	34.17	cps
SS1 Aluminium	5327.78	cps
LS1 Aluminium	952.92	cps
LS4 Aluminium	1072.72	cps
SS1 Magnesium	8575.44	cps
LS1 Magnesium	5835.08	cps
LS1 Al + Fe	804.59	cps
LS4 Al + Fe	458.31	cps

#### Results

SS Slope	1.82
LS Slope	0.45
PEF K Factor	3.480
PEF B Factor	-0.082

Compensated Neutron Calibration Report

Serial Number:	E03
Tool Model:	ENP
Source Number:	
Calibration Tank Temperature:	0.0 degF

BACKGROUND MEASUREMENT

SS Counts	LS Counts
0.0	0.0

WATER TANK REFERENCE

Thu Sep 01 09:01:30 2011

SS Counts	LS Counts	
0.0 cps	0.0 cps	
Tank Ratio Ref	Tank Ratio	Tank Ratio Gain
30.9580 SS/LS	31.1488 SS/LS	0.9939

ALUMINUM SLEEVE REFERENCE

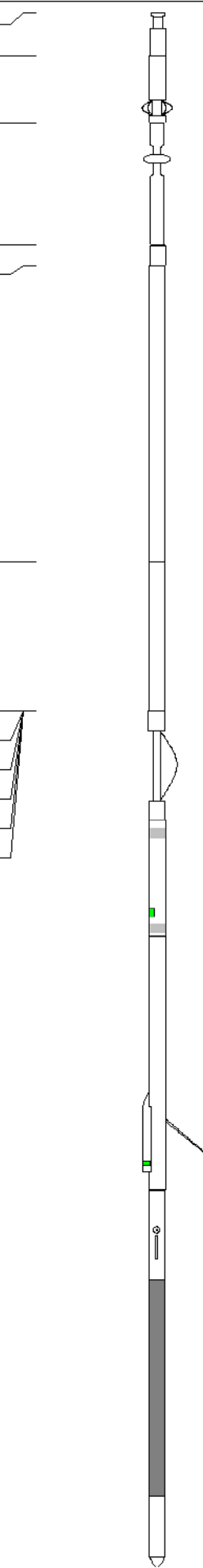
SS Counts	LS Counts	
0.0 cps	0.0 cps	
Al Ratio Ref	Al Ratio	Al Ratio Gain
0.000 SS/LS	0.000 SS/LS	1.02
Sleeve Porosity		
0.00 pu		

Gamma Ray Calibration Report

Serial Number:	26
Tool Model:	PS
Performed:	Sun Apr 10 10:00:25 2011
Calibrator Value:	162.7 GAPI
Background Reading:	68.8 cps
Calibrator Reading:	448.0 cps
Sensitivity:	0.3760 GAPI/cps

Inclinometer Calibration Report

Performed:	Sun Jun 13 14:33:21 1993				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer					

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
Thrubit	63.87		<b>Cablehead</b> Thrubit 10 to 1 Cablehead	1.79	2.13	5.00
Thrubit	62.07		<b>Small_Release</b> Thrubit Small Release Tool	2.75	1.69	20.00
Thrubit	59.32		<b>HangOff_Tool</b> Thrubit Hang Off Tool	5.00	2.45	60.00
Thrubit	54.32		<b>10-1</b> Thrubit 10 to 1 Crossover	0.88	2.13	3.95
TBBAT	53.45		<b>TBBAT-A (1)</b> Thrubit Battery	12.17	2.13	38.20
TMG	41.28		<b>TMG-PS (26)</b> ThruBit Telemetry Gamma Ray	6.13	2.13	45.00
Thrubit	35.16		<b>Decentralizer</b> Thrubit (Small) Decentralizer	4.50	2.13	22.60
ACCX	35.16		<b>TBN-ENP (E03)</b> ThruBit Neutron	4.77	2.13	63.00
ACCY	35.16					
ACCZ	35.16					
GRHEADV	35.16					
DHTEN	35.16		<b>TBD-PS (41)</b> Thrubit Density	10.47	2.13	94.00
			<b>TBI-PS (15)</b> Thrubit Induction	15.42	2.13	94.00

Dataset: sandridge\_britt\_mem.db: field/well/proc1/pass1.2  
 Total Length: 63.87 ft  
 Total Weight: 445.75 lb  
 O.D.: 2.45 in



Company	SANDRIDGE ENERGY
Well	BRITT 1-20H
Field	WALDRON WEST
County	HARPER
State	KANSAS

# American Measurement Services

A Limited Liability Company

Ames, Oklahoma

Station Number: KS03R00  
Producer: SANDRIDGE ENERGY  
Lease: BRITT 1-20H  
Sample Pressure: 110.0  
Sample Temperature: 75.0  
Cylinder Number: 4115  
Analysis By: AMS  
Date Sampled: 10/31/2011  
Analysis Run Date: 10/31/2011

Gas Components	Mole Percent	GPM
Methane	54.233	
Ethane	6.192	1.6460
Propane	3.718	1.0180
lButane	0.567	0.1845
nButane	1.633	0.5120
iPentane	0.401	0.1459
nPentane	0.549	0.1979
C6 +	0.749	0.3251
Nitrogen	26.383	
CO2	5.574	
	100.00%	4.0295

BTU @ 14.65 @ 60 F - Real

Dry 898.7  
Wet 883.0

Specific Gravity - Real 0.8552  
Z = 0.9973

Gasoline Content

Propane And Heavier 2.3835  
Butane And Heavier 1.3654  
Pentane And Heavier 0.6689

H2S Field Test: PPM

Field Remarks: Pulled from separator

Analysis Based Upon GPA 2145, 2172, And 2261