		<b>Pe-DENSITY COMPENSATED NEUTRON GAMMA RAY</b>	
Company: WIEPKING-FULLERTON LLC Well: CONQUEST No.14 Field: WILDCAT County: LINCOLN State: CO.		COMPANY: WIEPKING-FULLERTON LLC WELL: CONQUEST No.14 FIELD: WILDCAT COUNTY: LINCOLN STATE: CO.	
Location 621' FSL & 1736' FWL SESW SEC 15 TWP 10S R56W API# 05-073-06698		Other Services INDUCTION	
Permanent Datum: GL Log Meas. From: KB Drill. Meas. From: KB		Elevation: 5495 FT , 13 FT ABOVE PERM. DATUM Elevations K.B.: 5508 FT D.F.: 5507 FT G.L.: 5495 FT	
Date	13 OCT 2015		
Run Number	1		
Depth Driller	8420 FT		
Depth Logger	8418 FT		
Bottom Logged Interval	8415 FT		
Top Logged Interval	2000 FT		
Casing Driller	8,625 IN. @ 313 FT		
Casing Logger	310' FT		
Bitsize	7.875 IN.		
Type Fluid in Hole	CHEM		
Density / Viscosity	9.3 #/GAL 95 S		
pH / Water Loss	9.5 6.4 CC		
Source of Sample	BOREHOLE		
Rm @ Meas. Temp.	0.9 Ohm-m @ 116 F		
Rmf @ Meas. Temp.	0.68 Ohm-m @ 116 F		
Rmc @ Meas. Temp.	1.12 Ohm-m @ 116 F		
Source Rmf/Rmc	CALC CALC		
Rm at BHT	0.58 Ohm-m @ 180 F		
End Circulation	1700		
Logger on Bottom	2230		
Max. Recorded Temp.	180		
Equip. No / Location	110 FORT MORGAN		
Recorded by	D TRAVIS		
Witnessed by	GREGG SMITH		

----Fold Here----

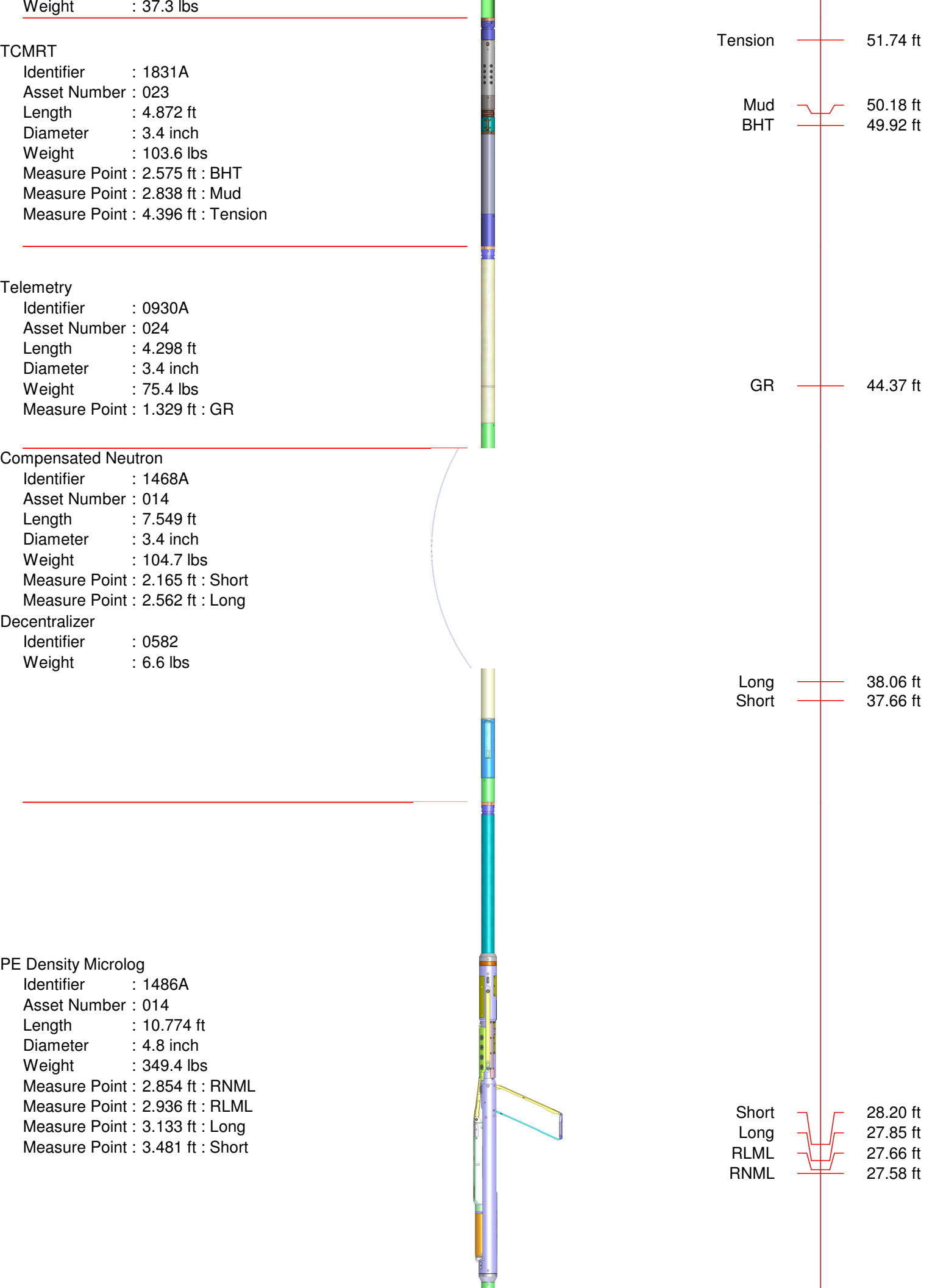
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services cannot and do not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services will not, except in the case of gross or willful negligence on our part, 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 the Pioneer Wireline Services general terms and conditions as set out in our current Price Schedule.

REMARKS

SO No. 2-014073  
 THANK YOU FOR USING PIONEER WIRELINE SERVICES.

EQUIPMENT DATA

Run	Trip	Instrument	Instrument Type No.	Serial No.	Distance to Reference
		Cable Head	None	1809CableHead	0.000 ft
		TCMRT	023	1831A	2.690 ft
		Telemetry	024	0930A	7.562 ft
		Compensated Neutro	014	1468A	11.860 ft
		Decentralizer		0582	19.409 ft
		PE Density Microlog	014	1486A	19.409 ft
		DIL	014	1141A	30.184 ft
		Bull Plug	None	BP	54.757 ft

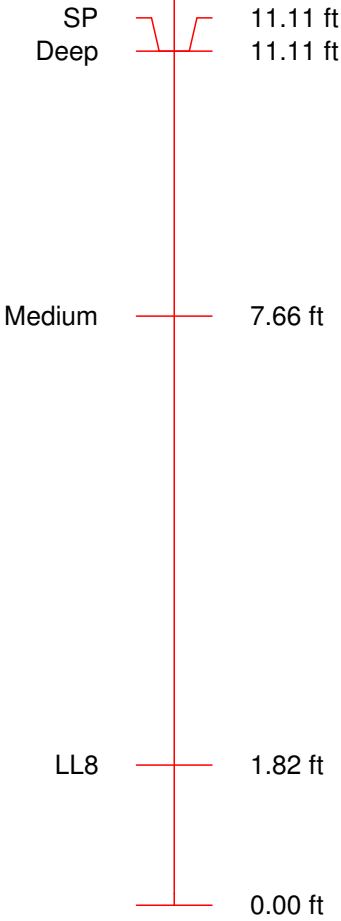


DIL

Identifier : 1141A  
Asset Number : 014  
Length : 24.573 ft  
Diameter : 3.6 inch  
Weight : 295.4 lbs  
Measure Point : 1.673 ft : LL8  
Measure Point : 7.513 ft : Medium  
Measure Point : 10.958 ft : Deep  
Measure Point : 10.958 ft : SP

Bull Plug

Identifier : BP  
Asset Number : None  
Length : 0.148 ft  
Diameter : 3.4 inch  
Weight : 6.6 lbs

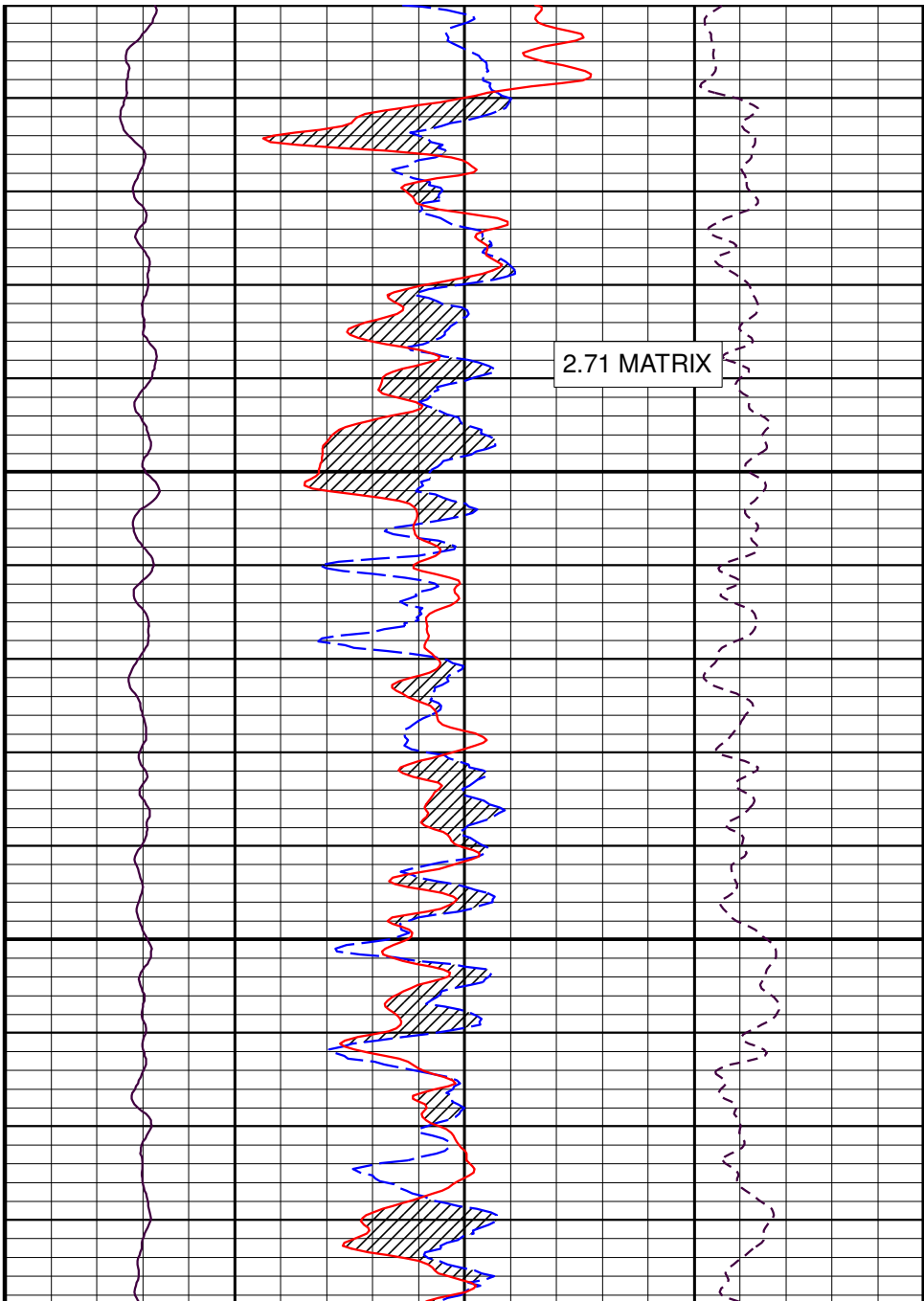
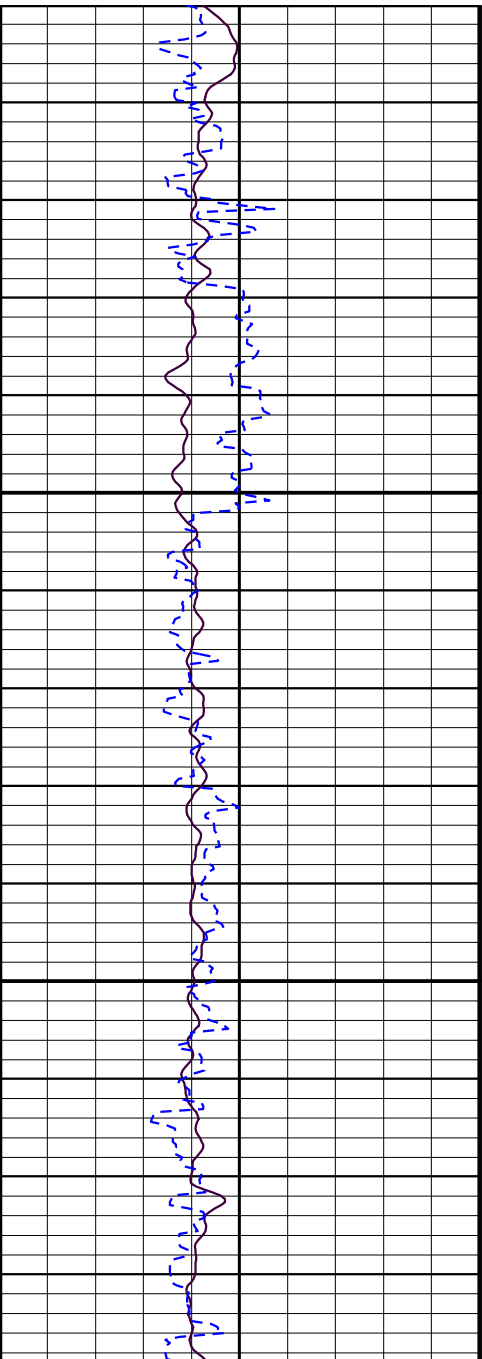
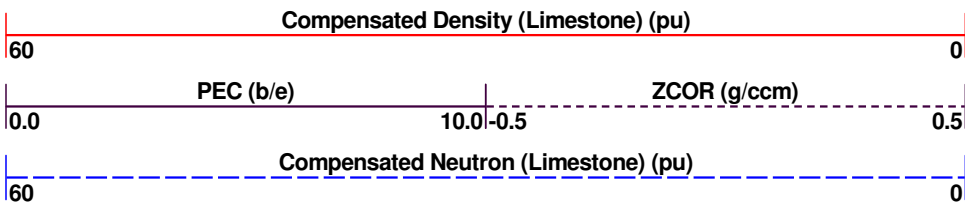
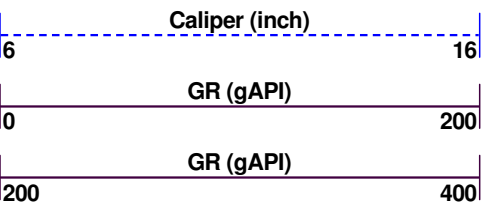


Total Length : 54.90 ft  
Total Weight : 979.06 lbs  
Max Diameter : 4.8 inch

Company : WIEPKING-FULLERTON LLC  
Well : CONQUEST No.14  
Scale : 1 : 240  
Depth in : ft  
Software : WinAPIot Ver. 5, 91, 4, 0

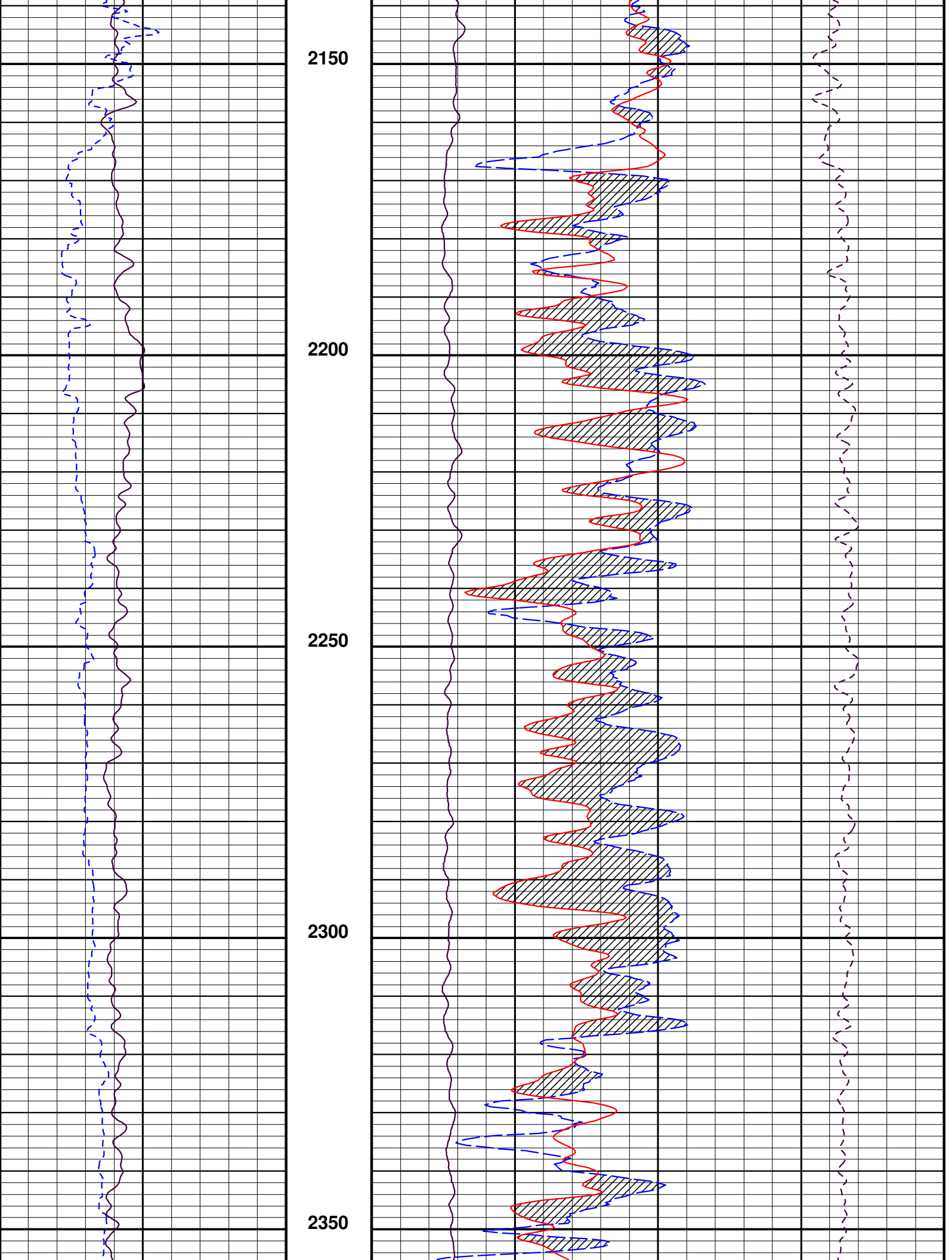
Date : 14.10.2015  
Time : 02:36:34  
Remarks : SO No. 2-014073

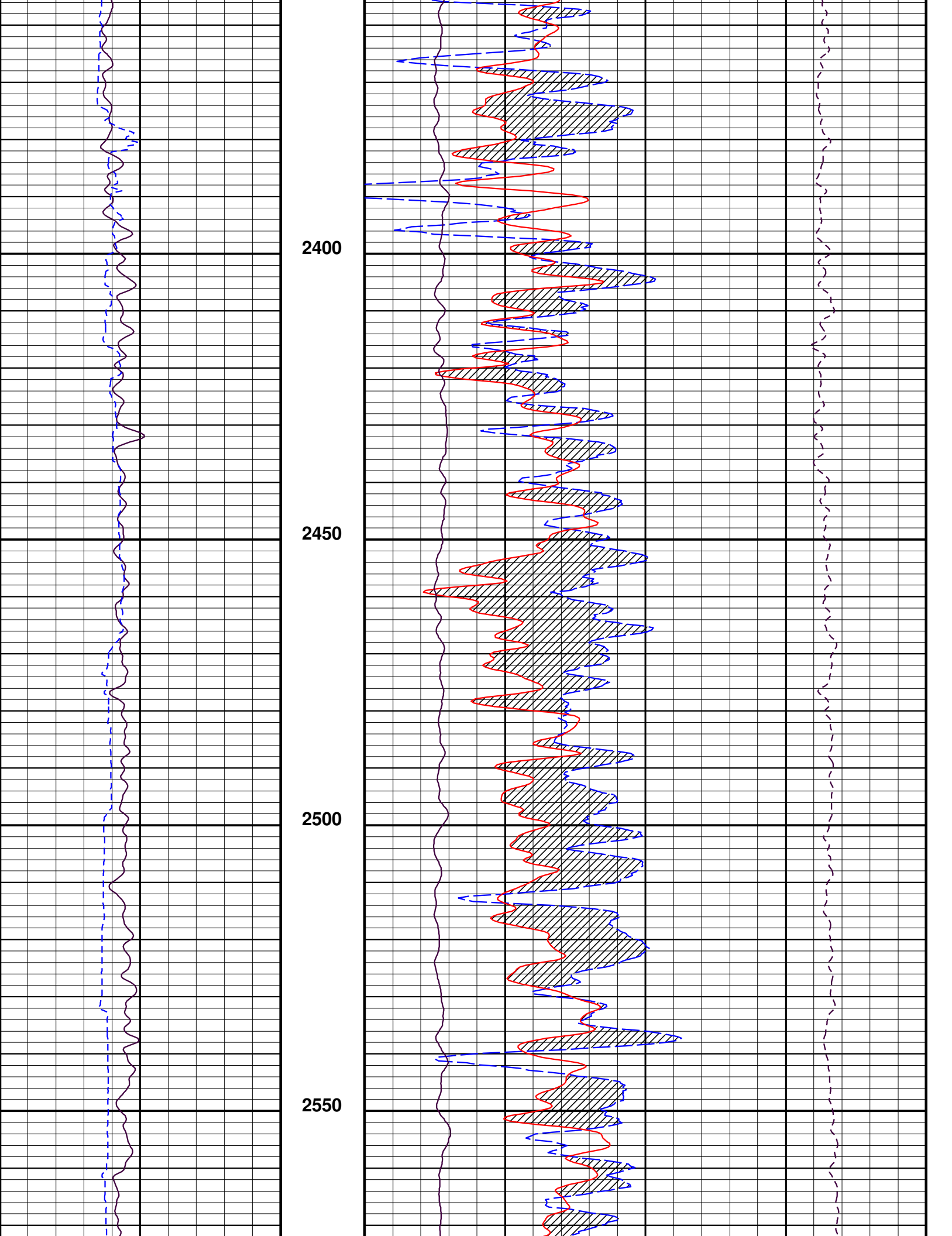
File Names : CONQUEST No.14\_RECOMPUTE MATRIX  
: ORIGINAL LOG PLUS VOL

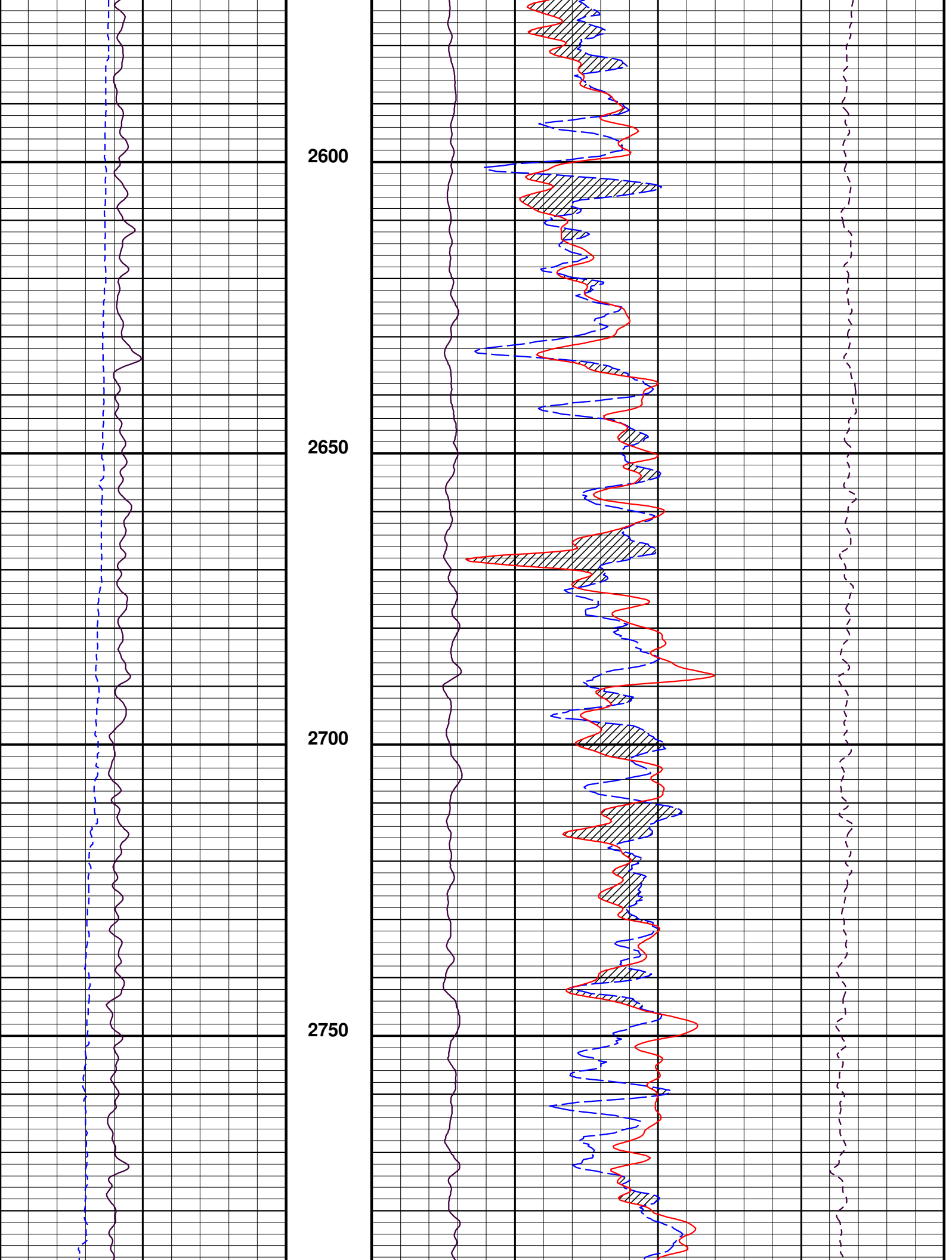


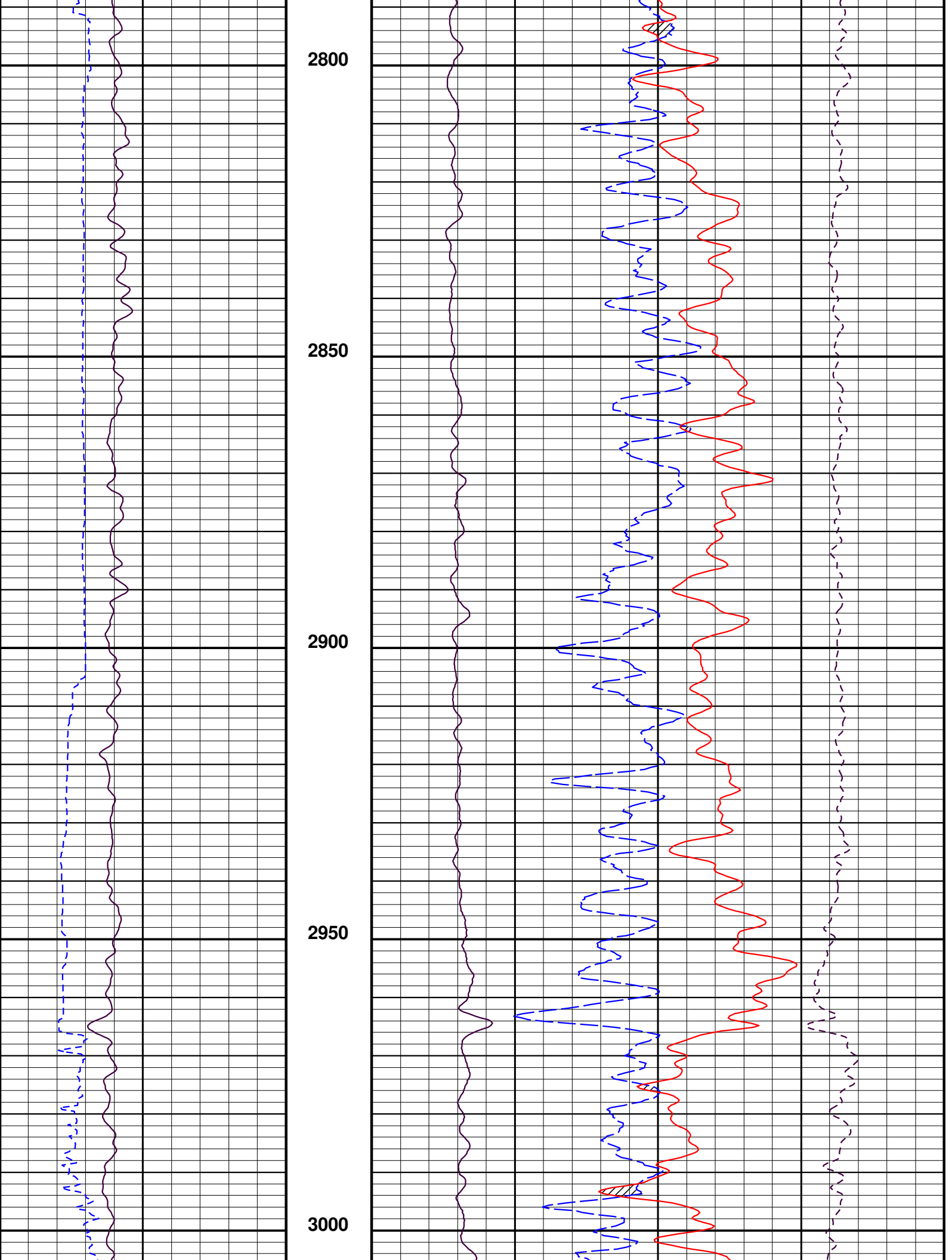
2050

2100

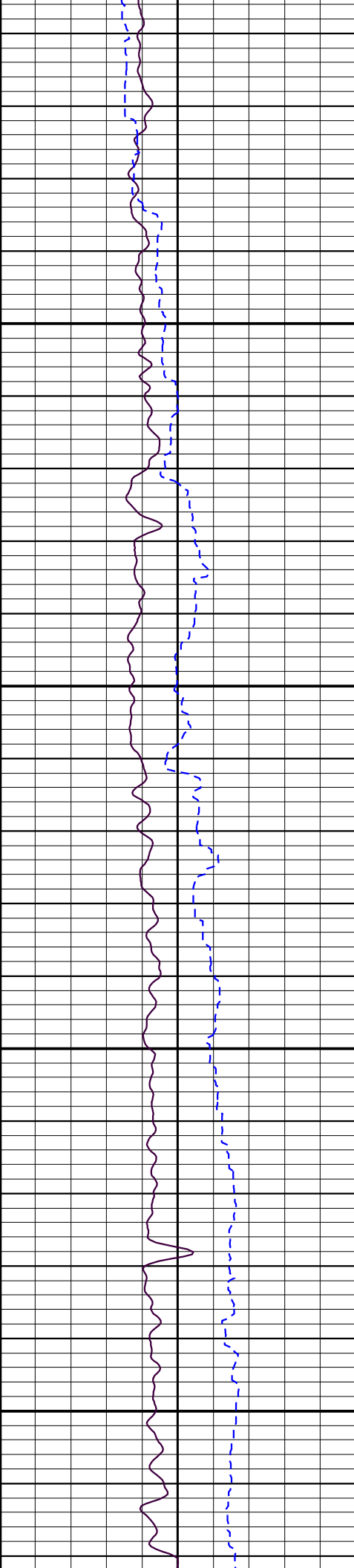










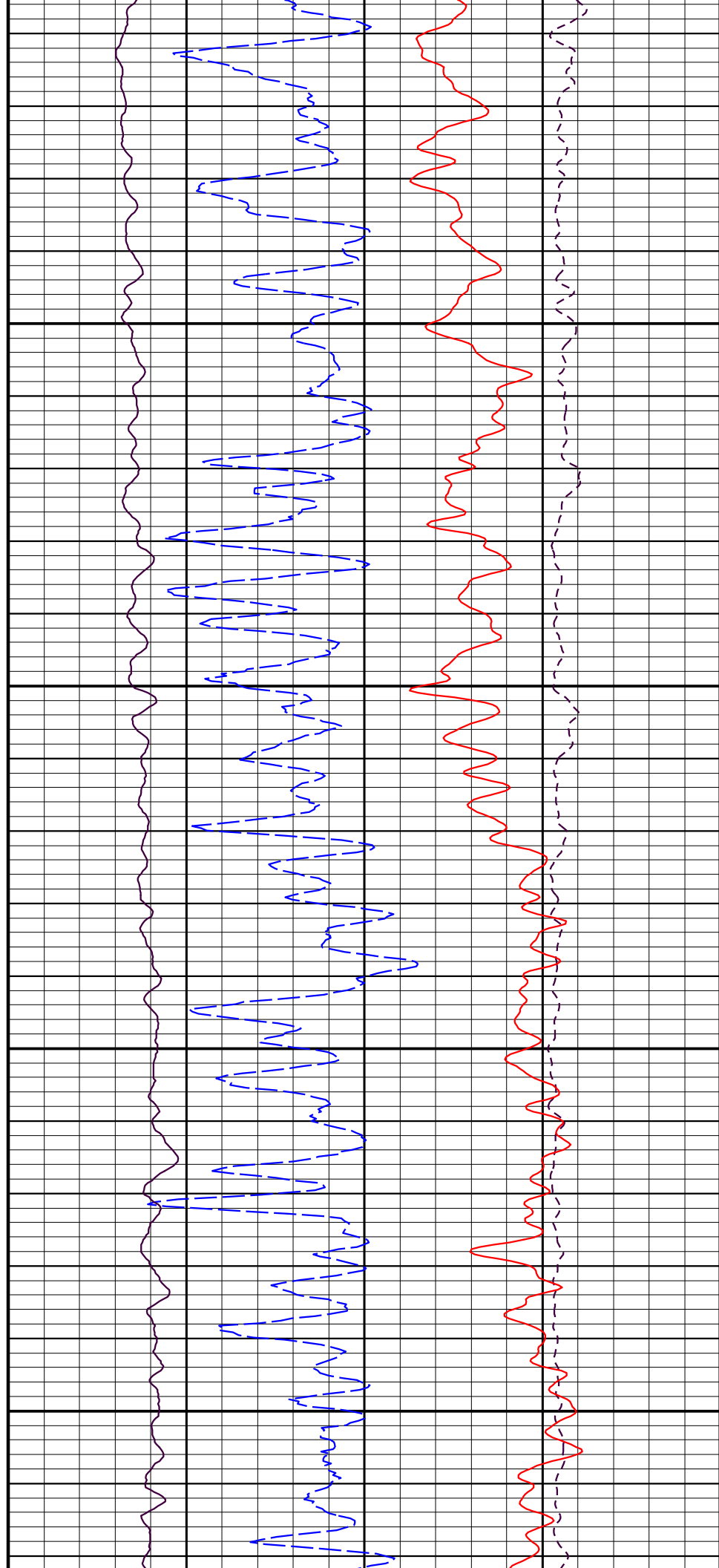


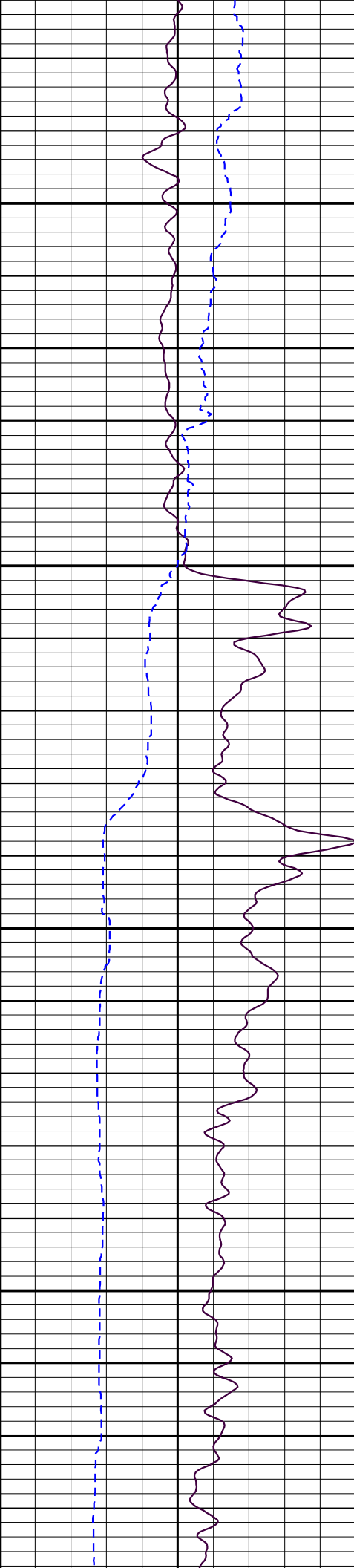
3050

3100

3150

3200



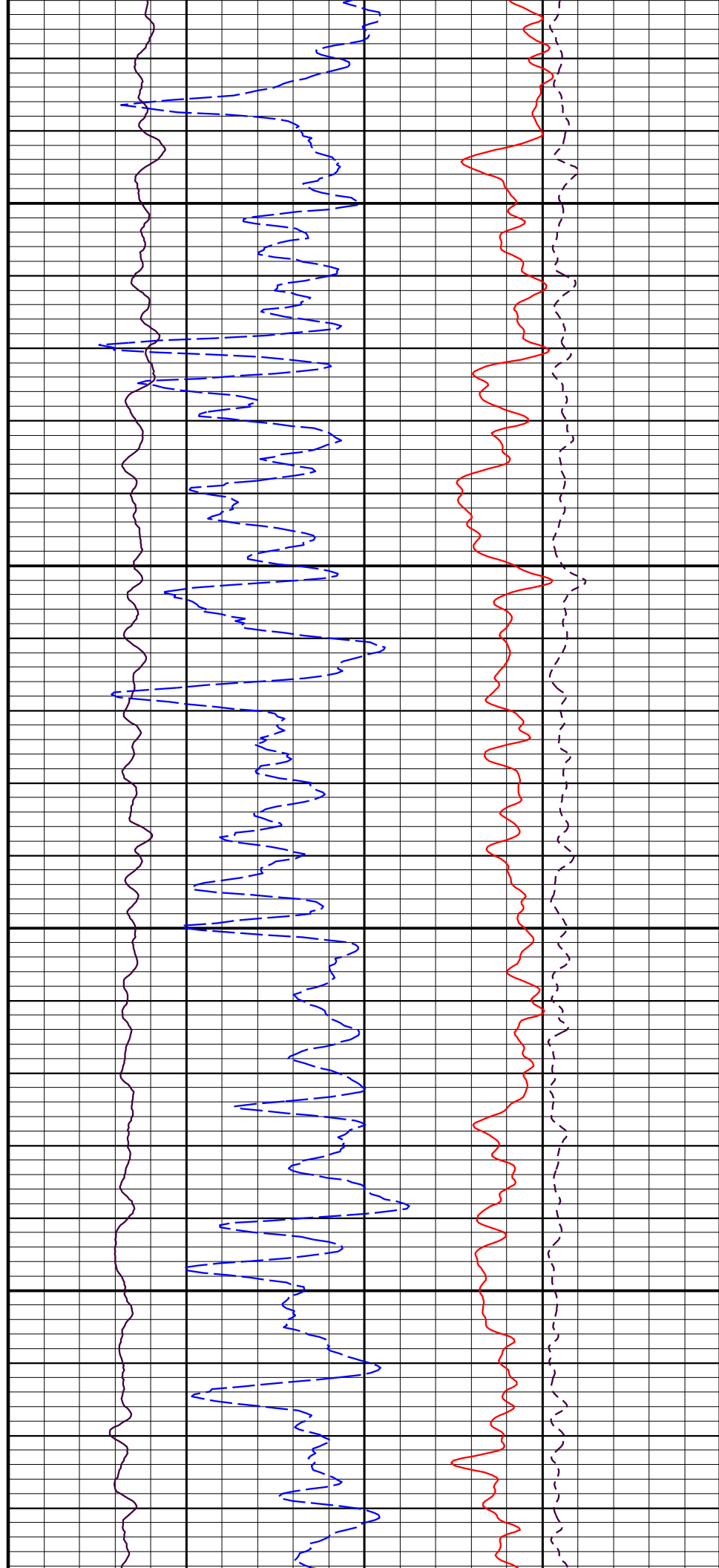


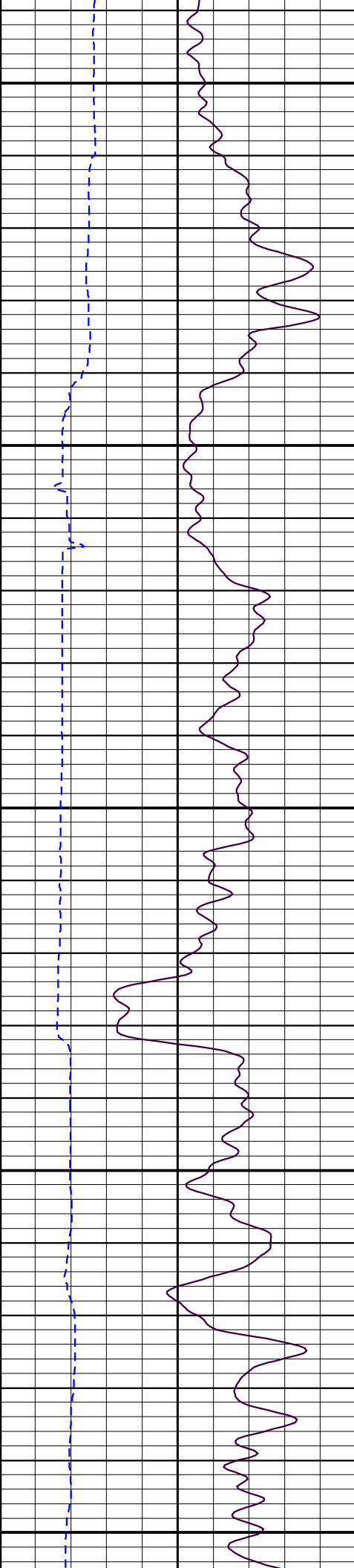
3250

3300

3350

3400





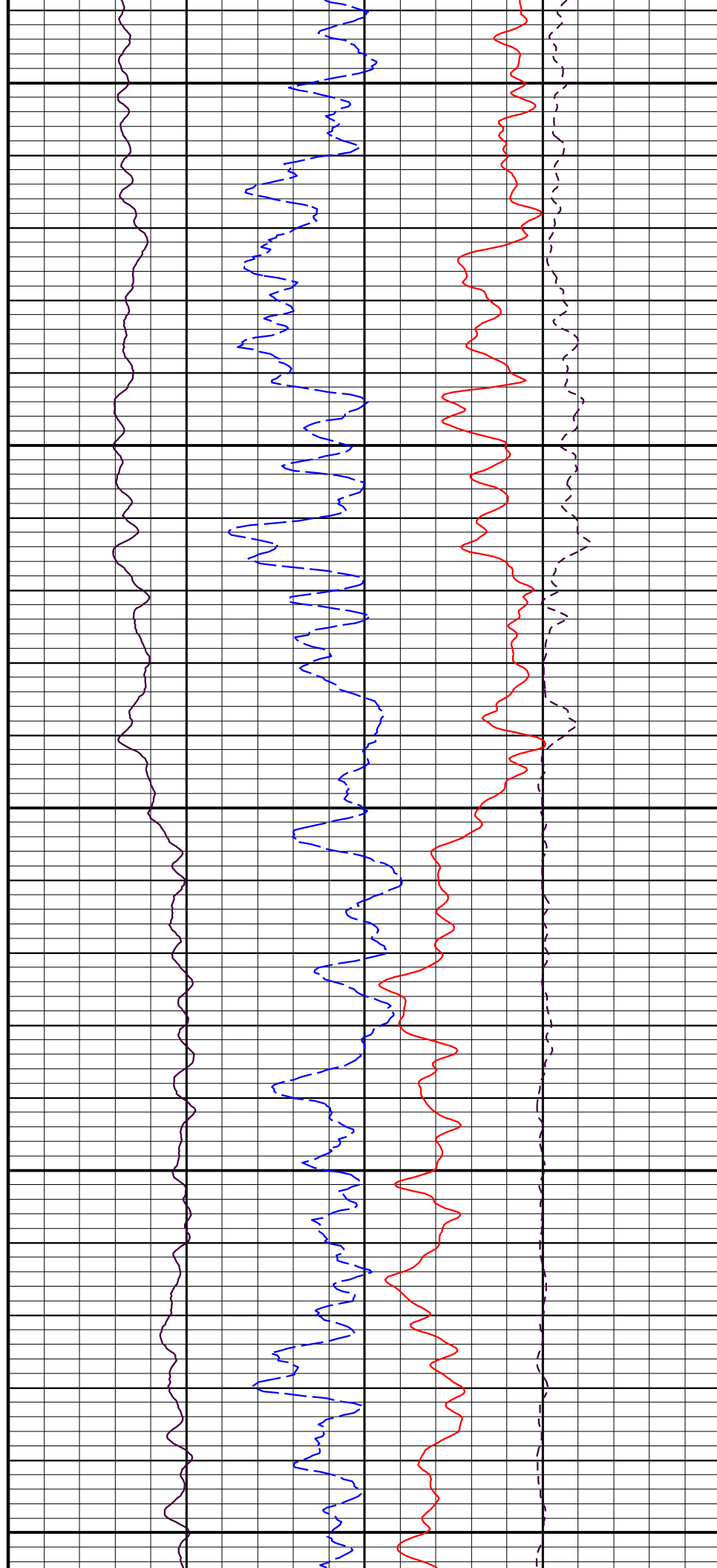
3450

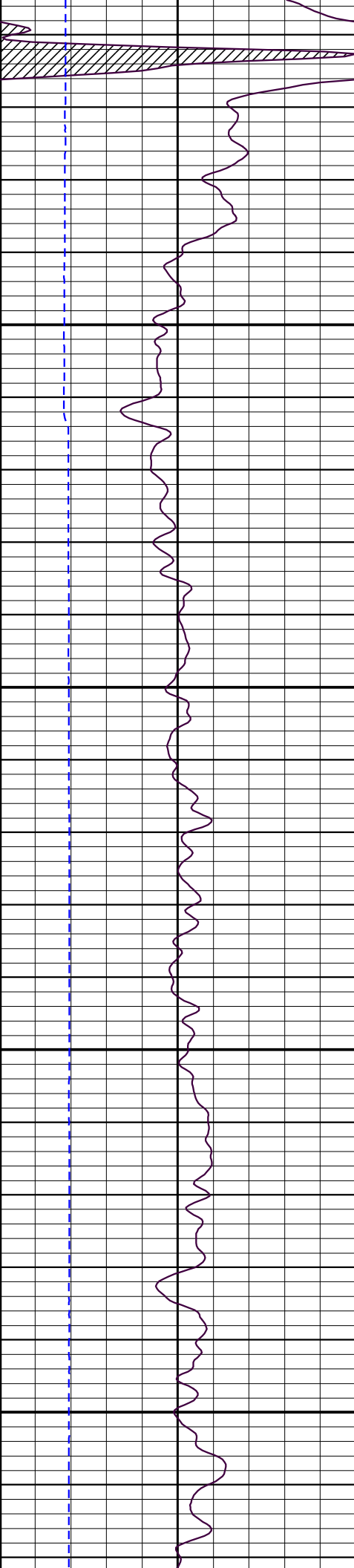
3500

3550

3600

3650



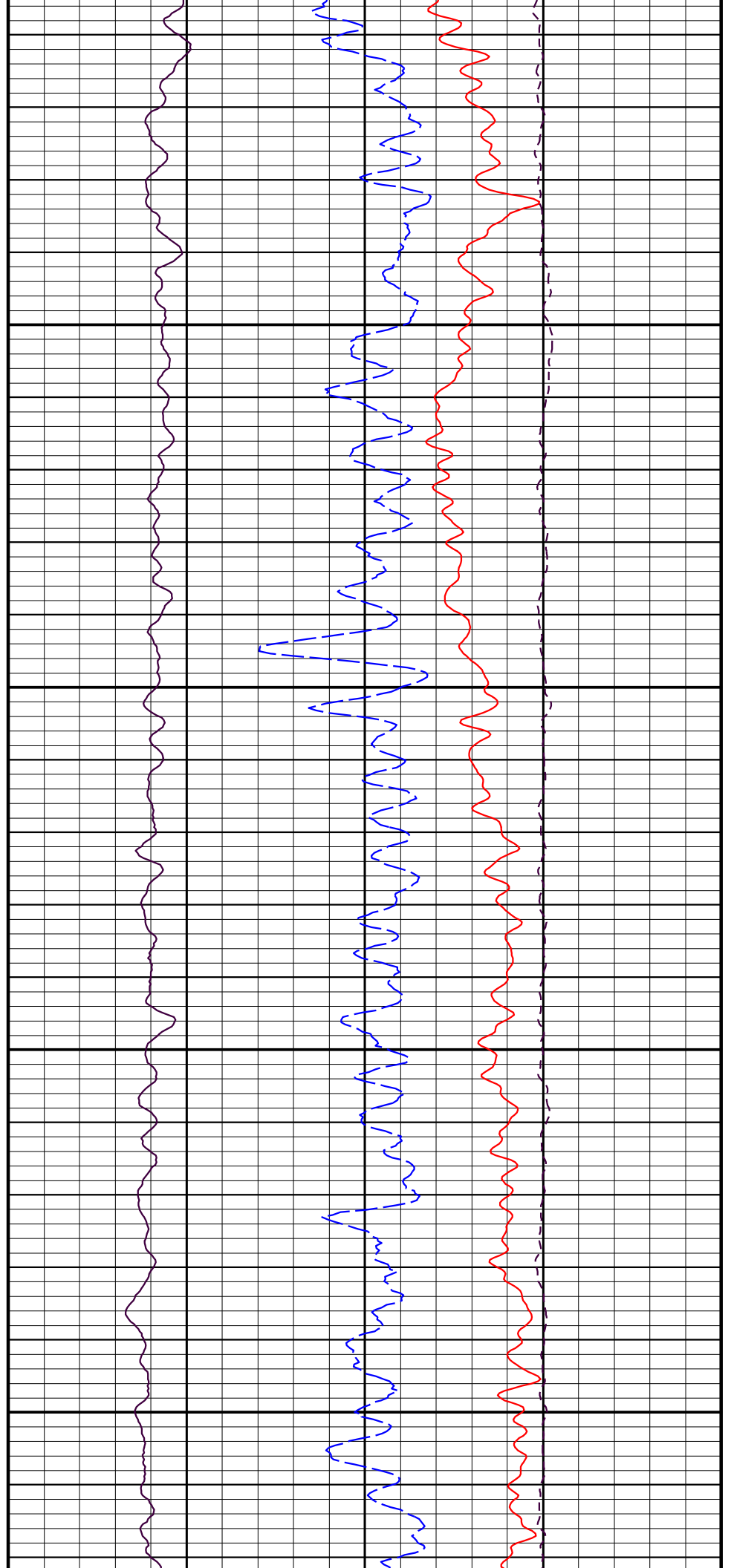


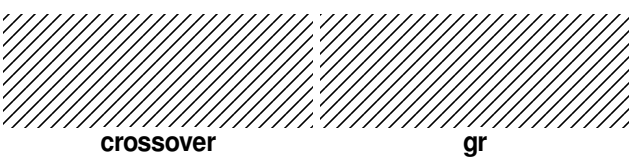
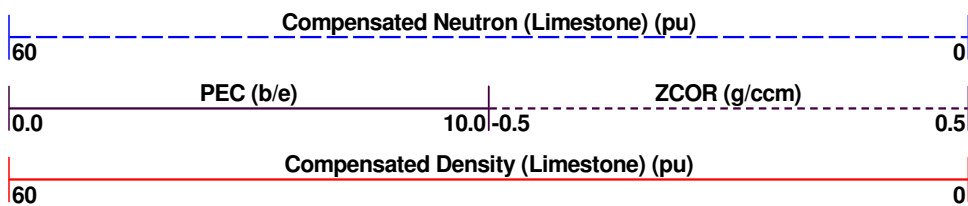
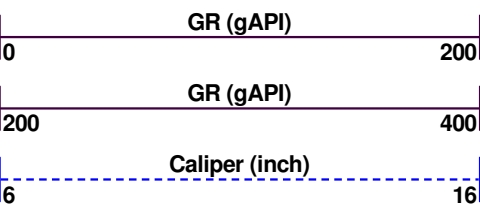
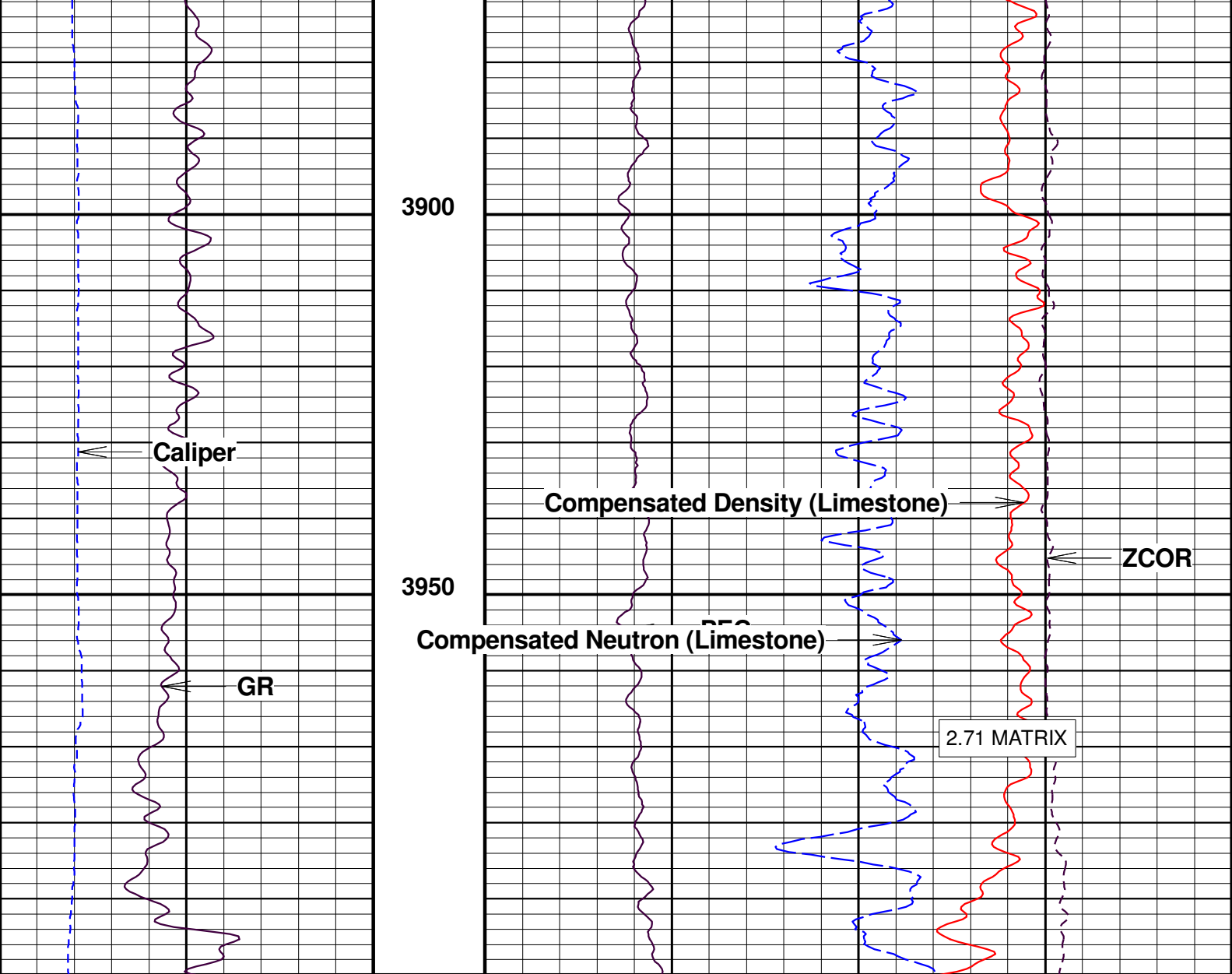
3700

3750

3800

3850

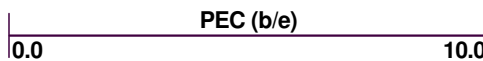




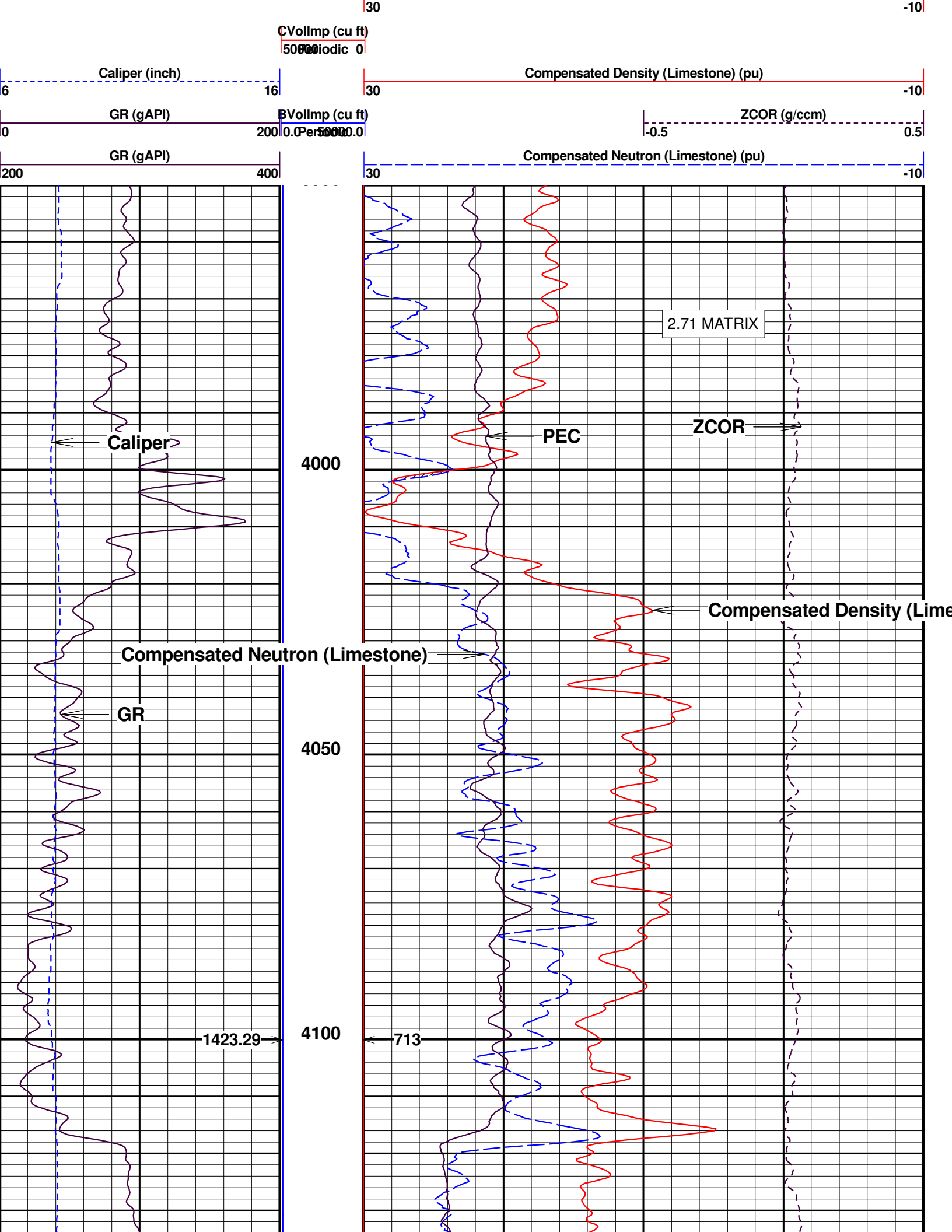
Company : WIEPKING-FULLERTON LLC  
 Well : CONQUEST No.14  
 Scale : 1 : 240  
 Depth in : ft  
 Software : WinAPIPlot Ver. 5, 91, 4, 0

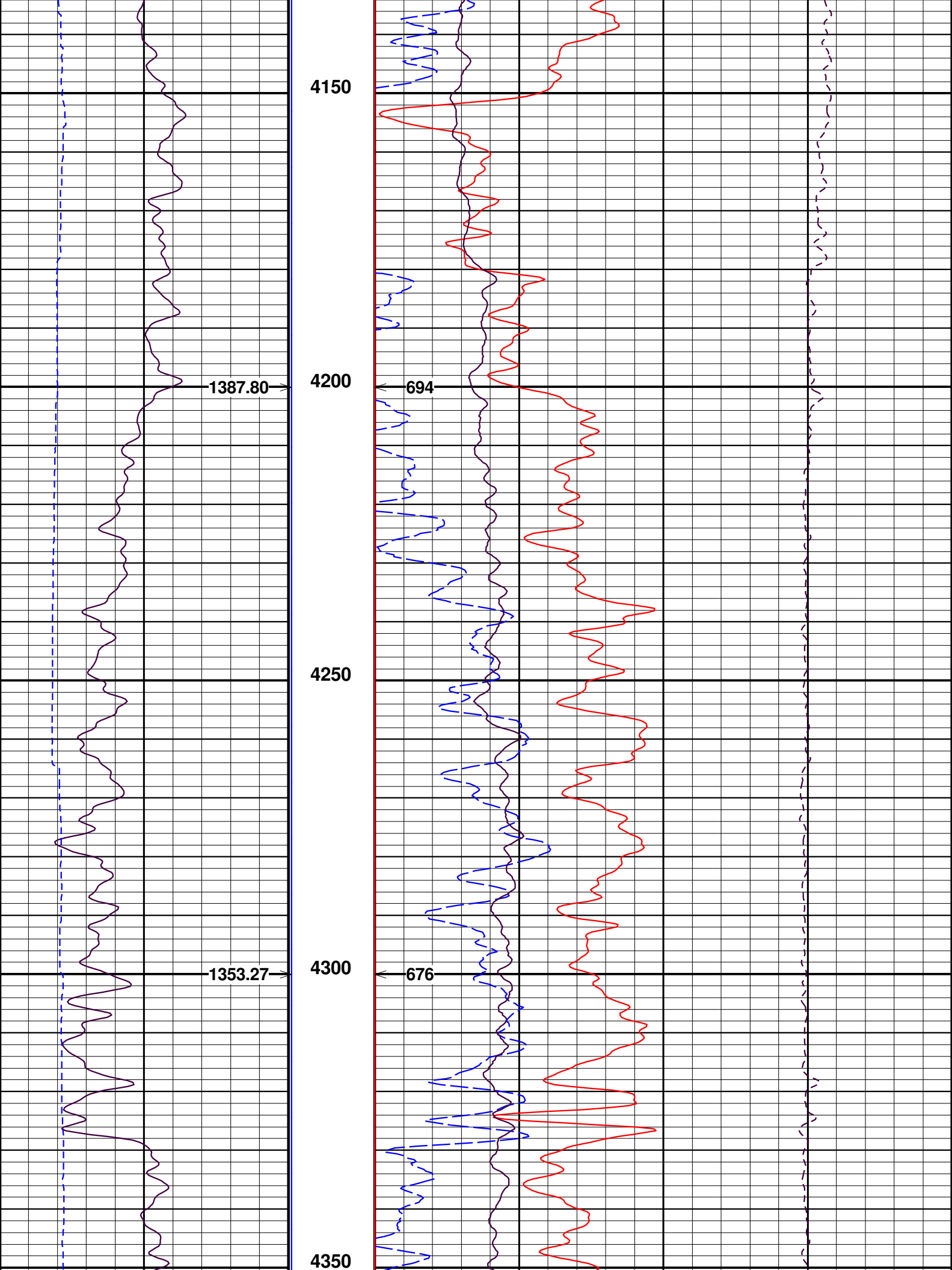
Date : 14.10.2015  
 Time : 02:36:34  
 Remarks : SO No. 2-014073

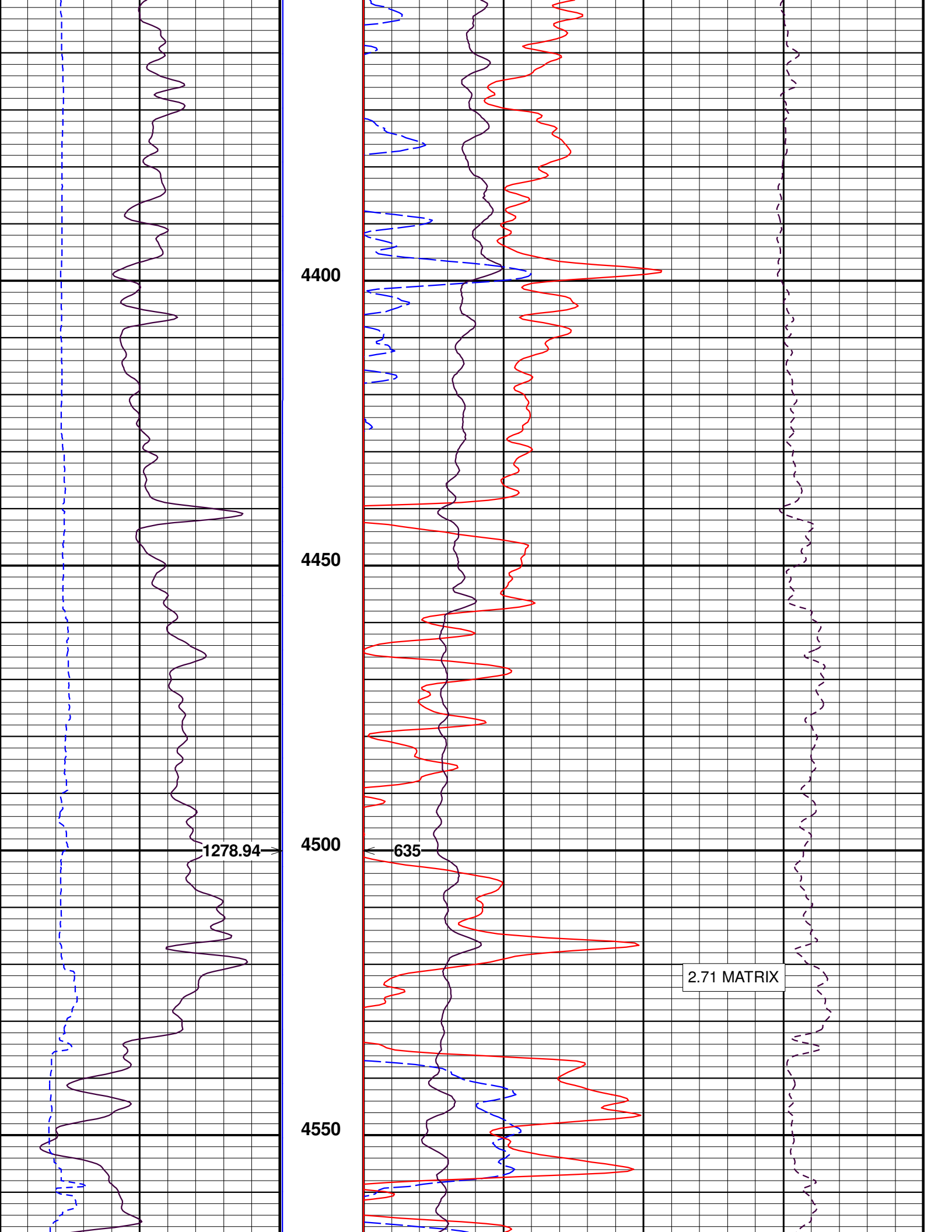
File Names : CONQUEST No.14\_RECOMPUTE MATRIX  
 : ORIGINAL LOG PLUS VOL



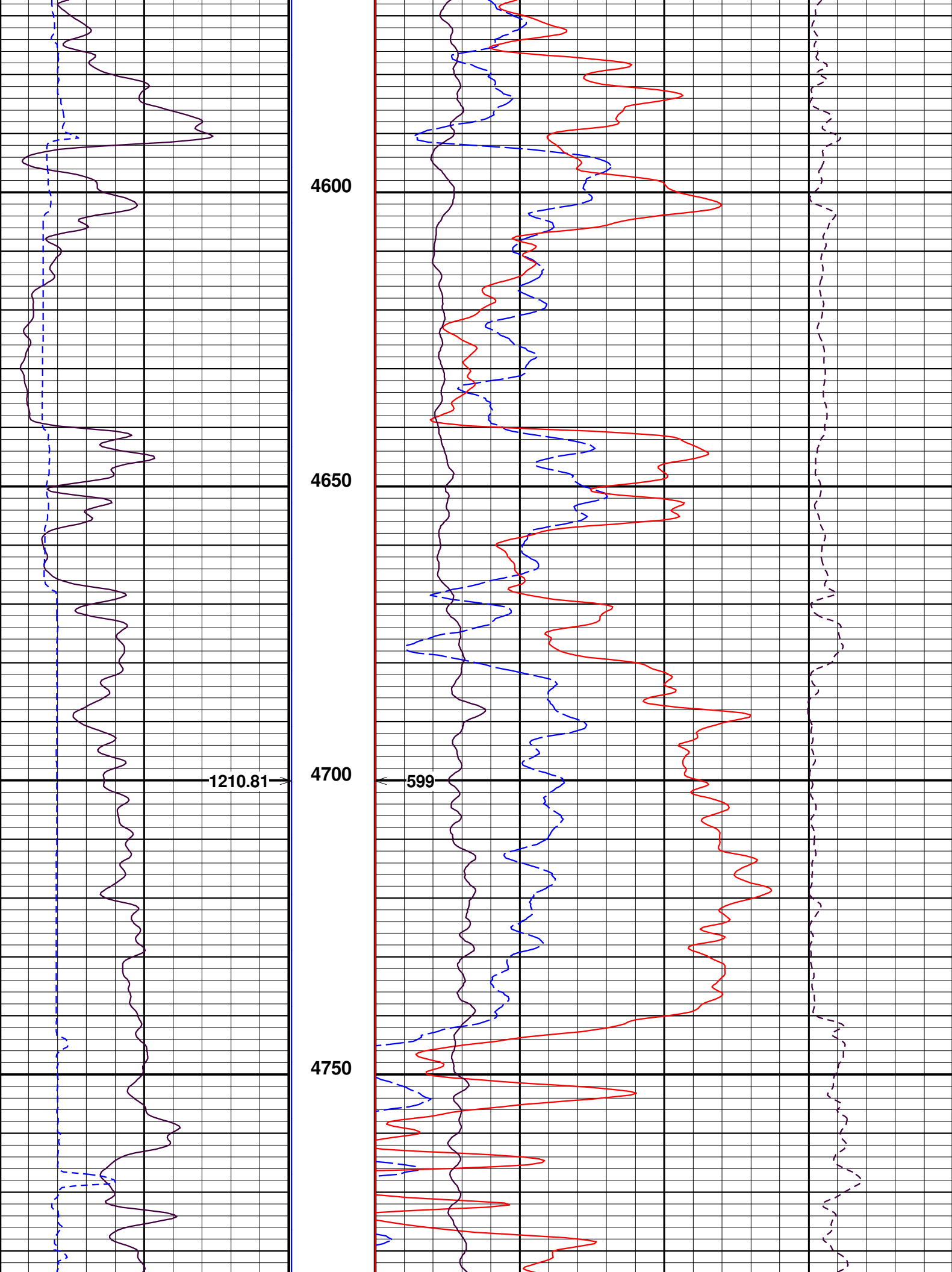
PorD (pu)

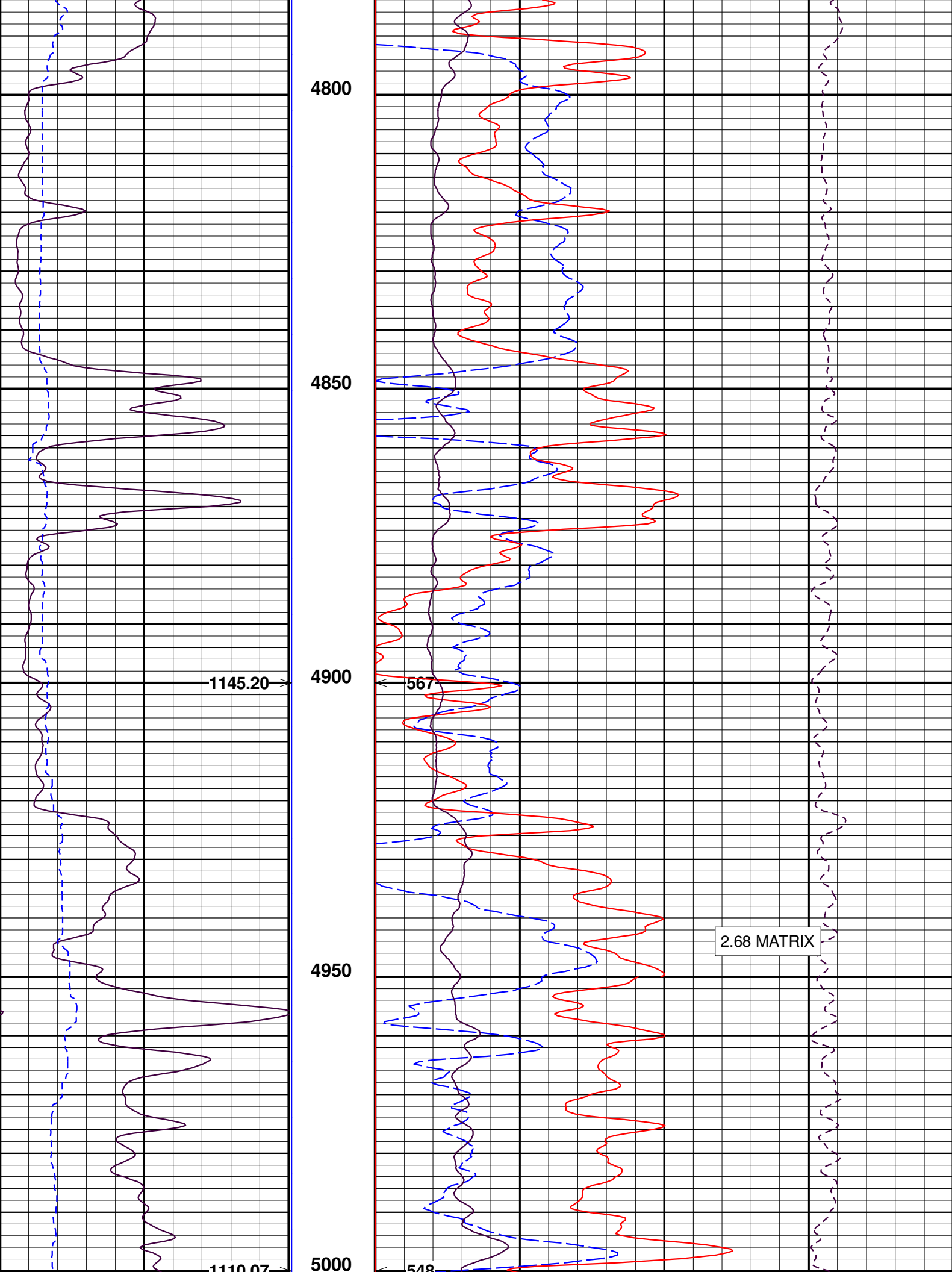


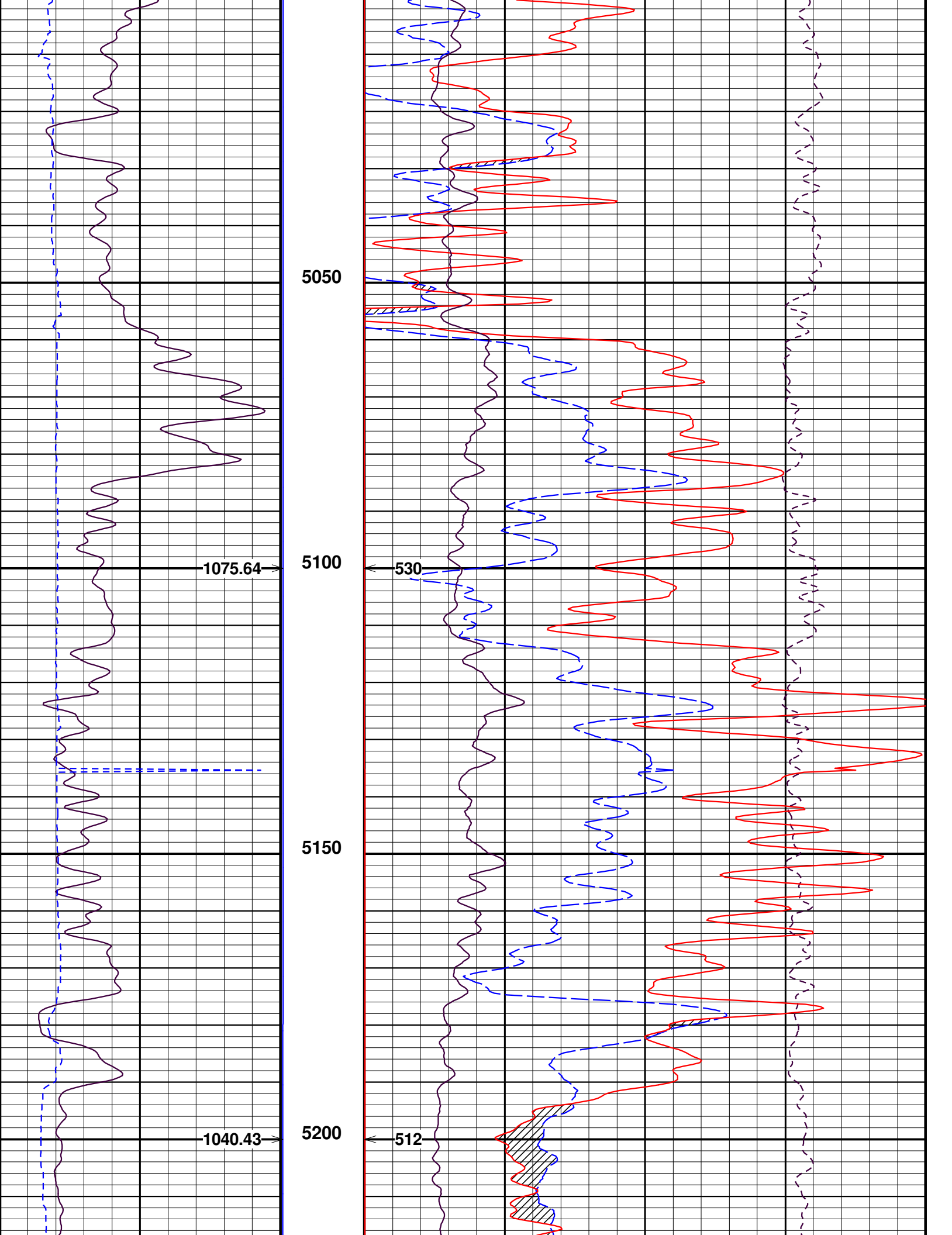


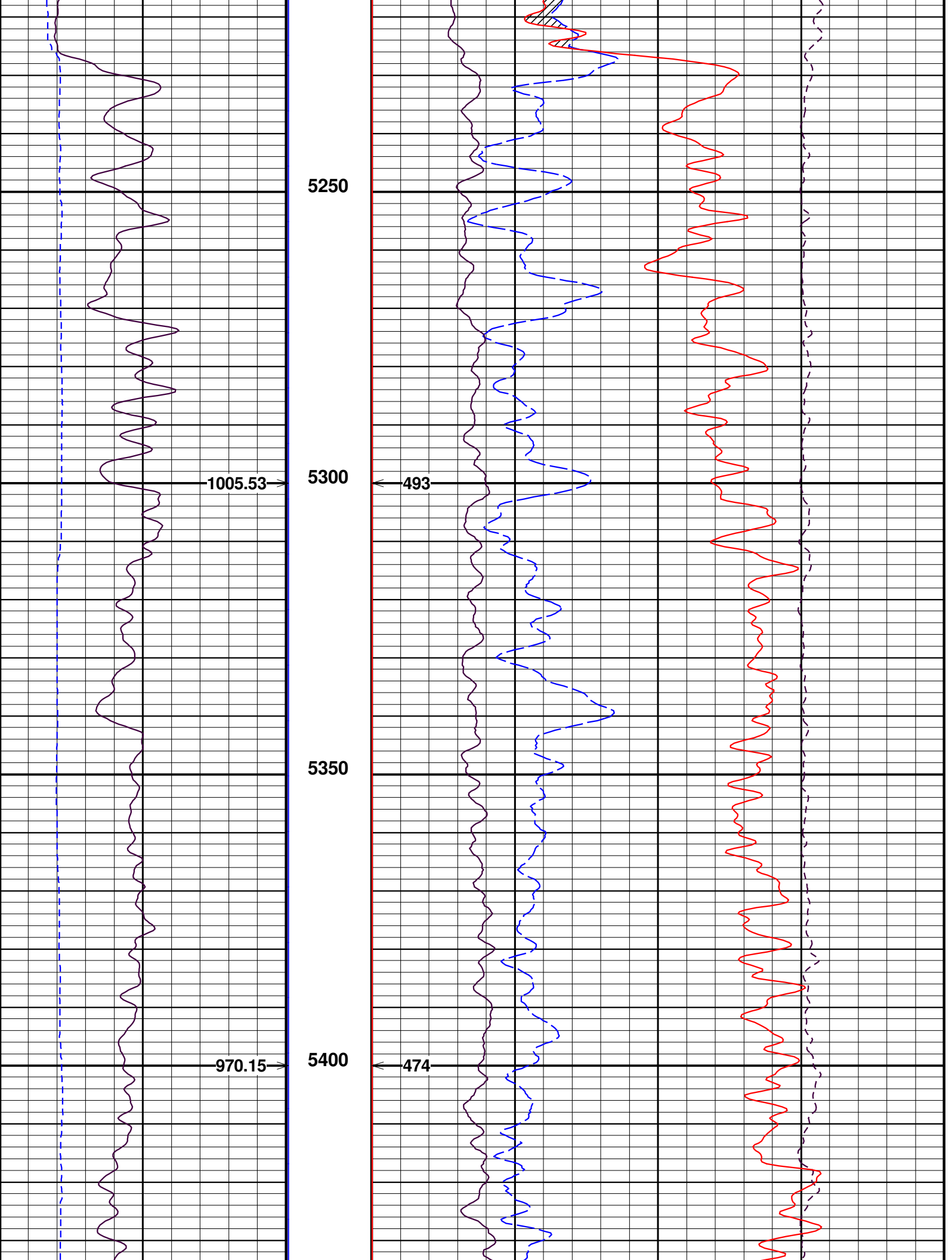


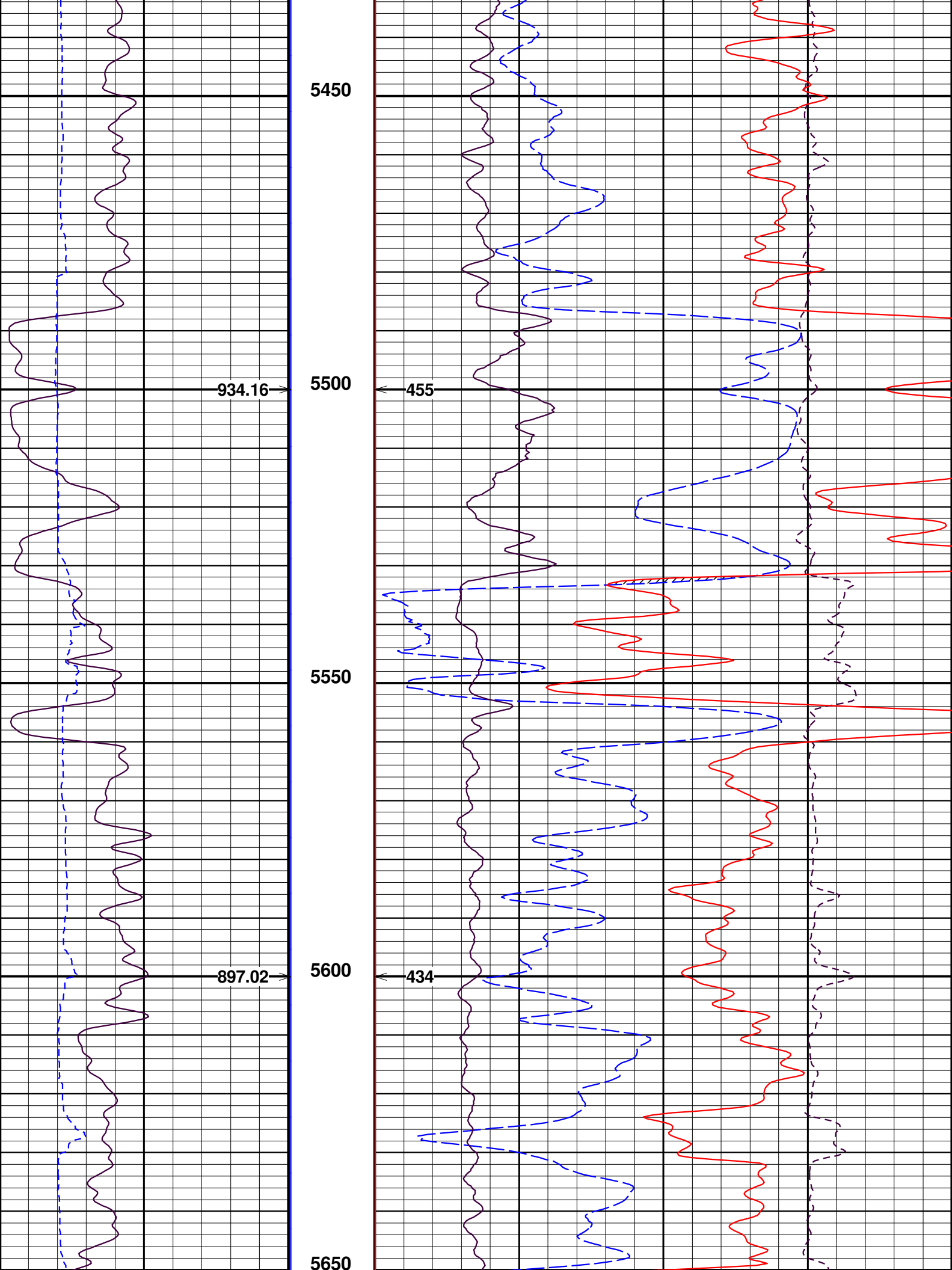


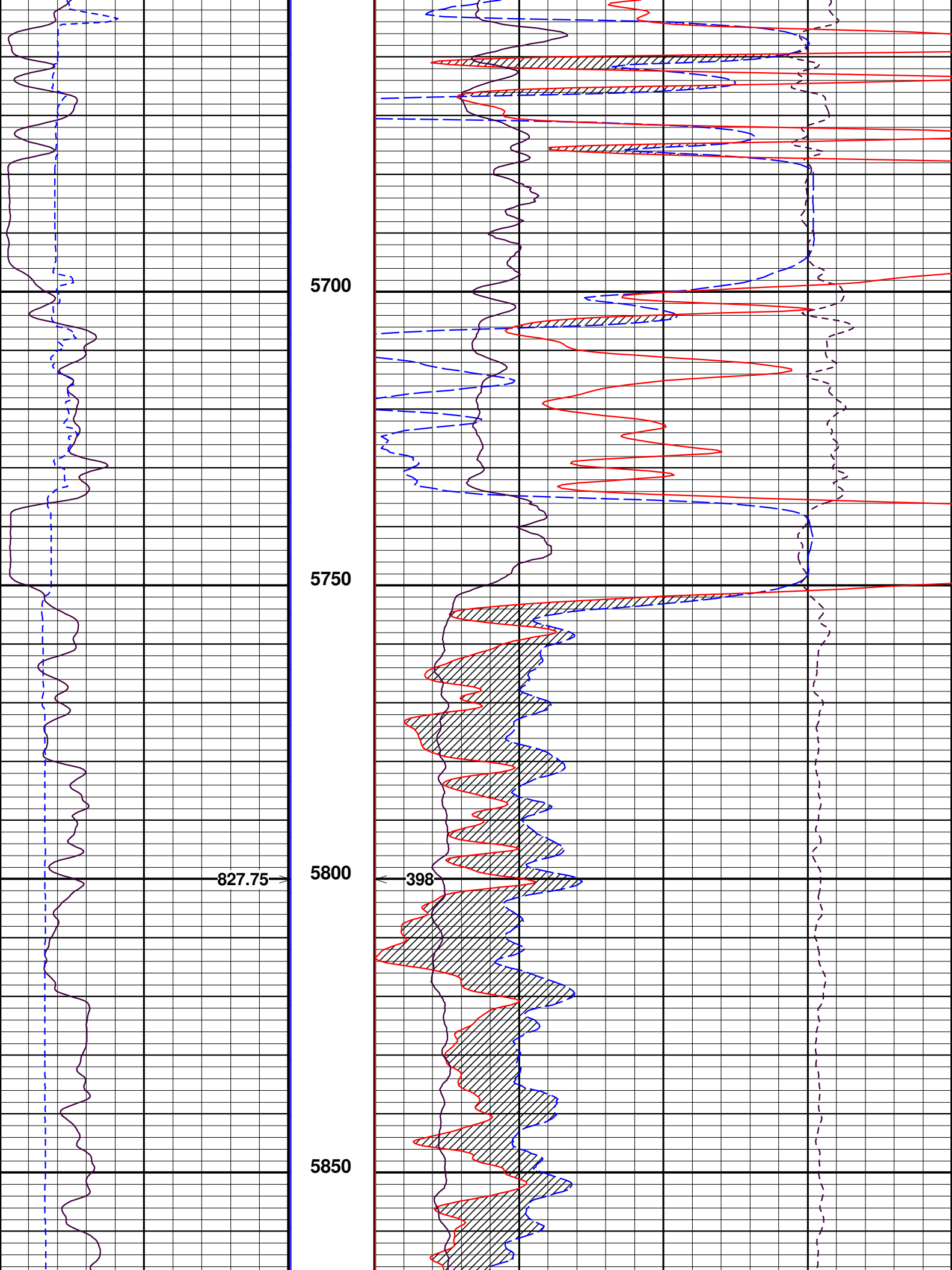


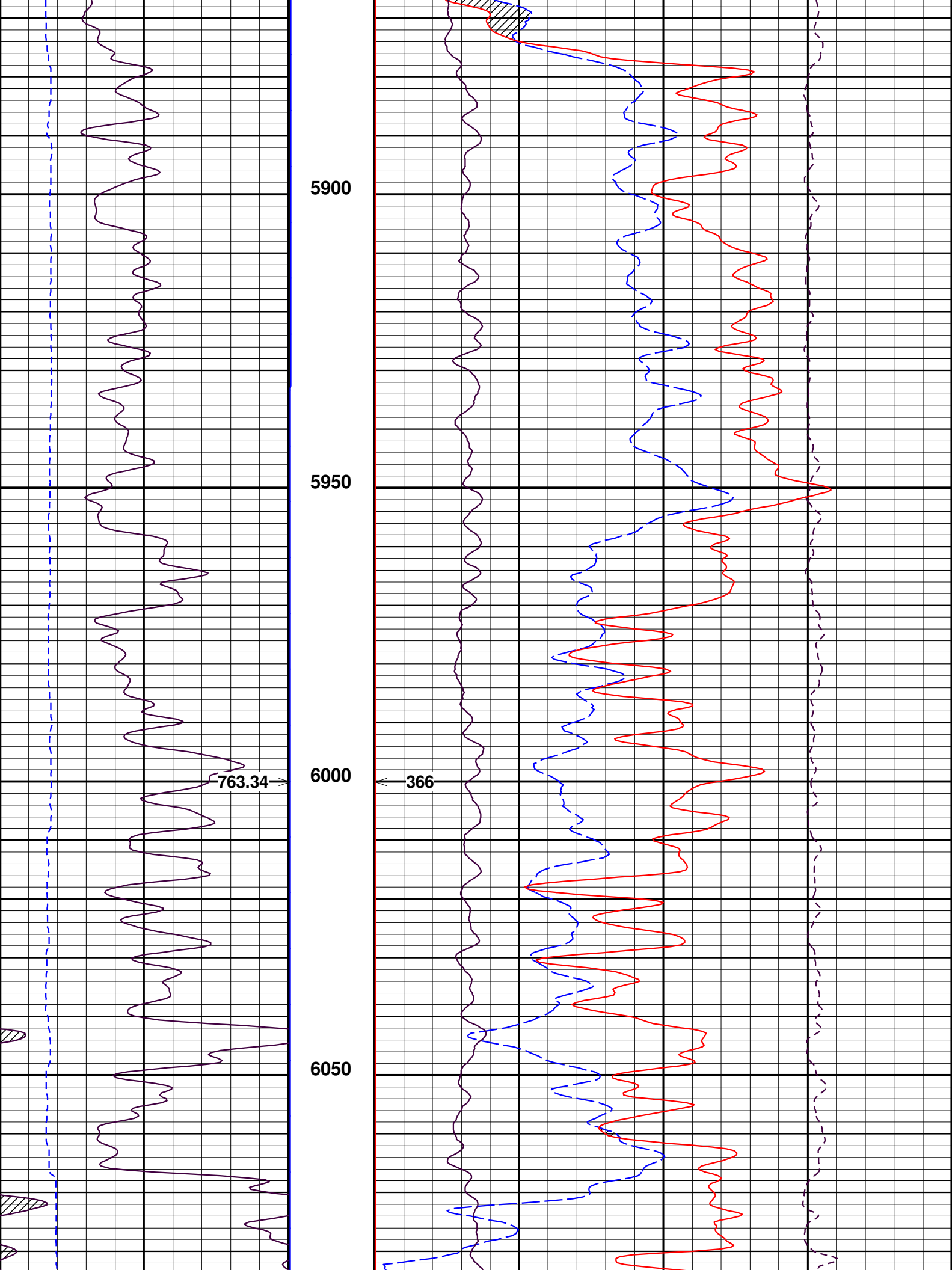


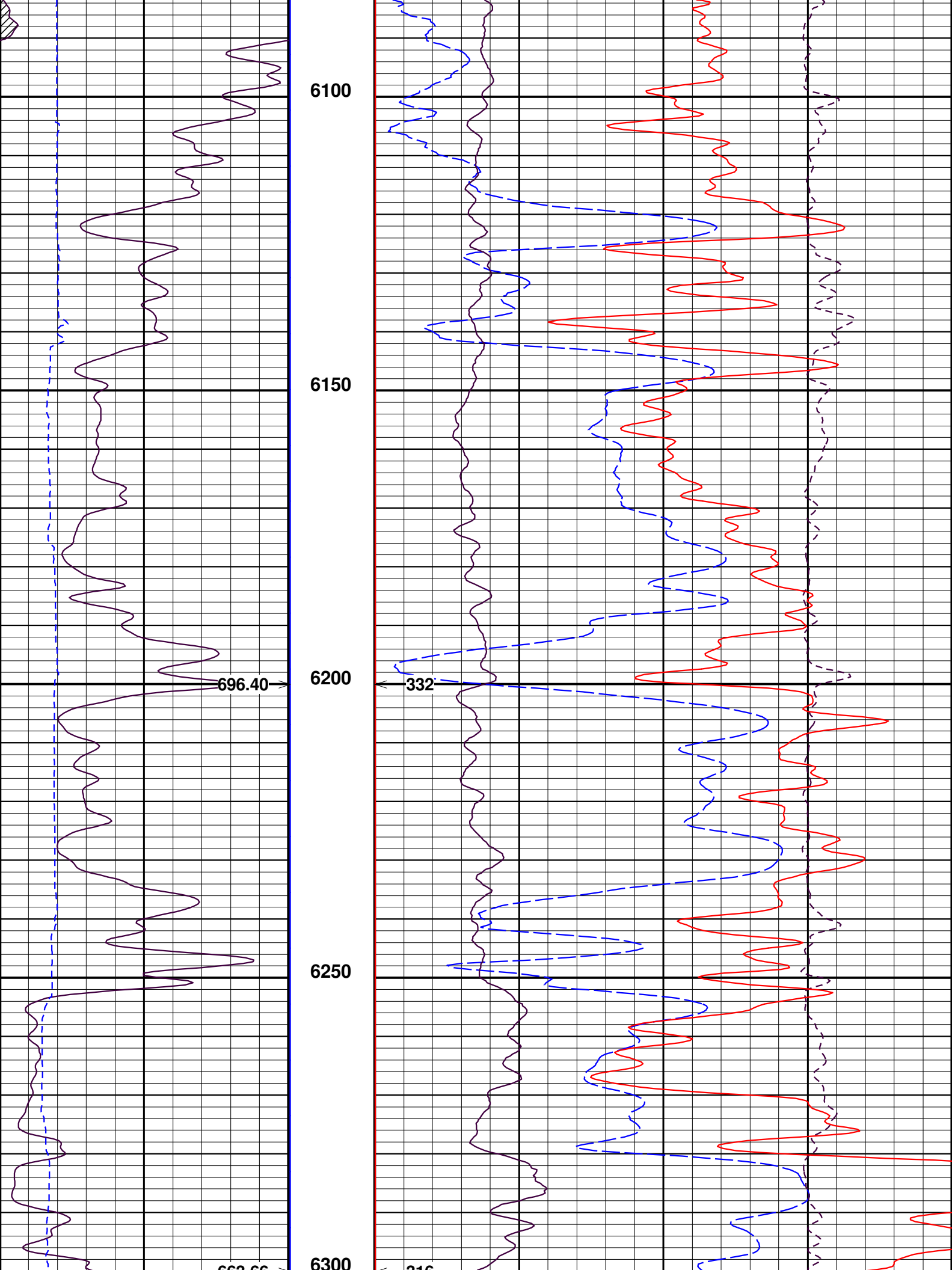




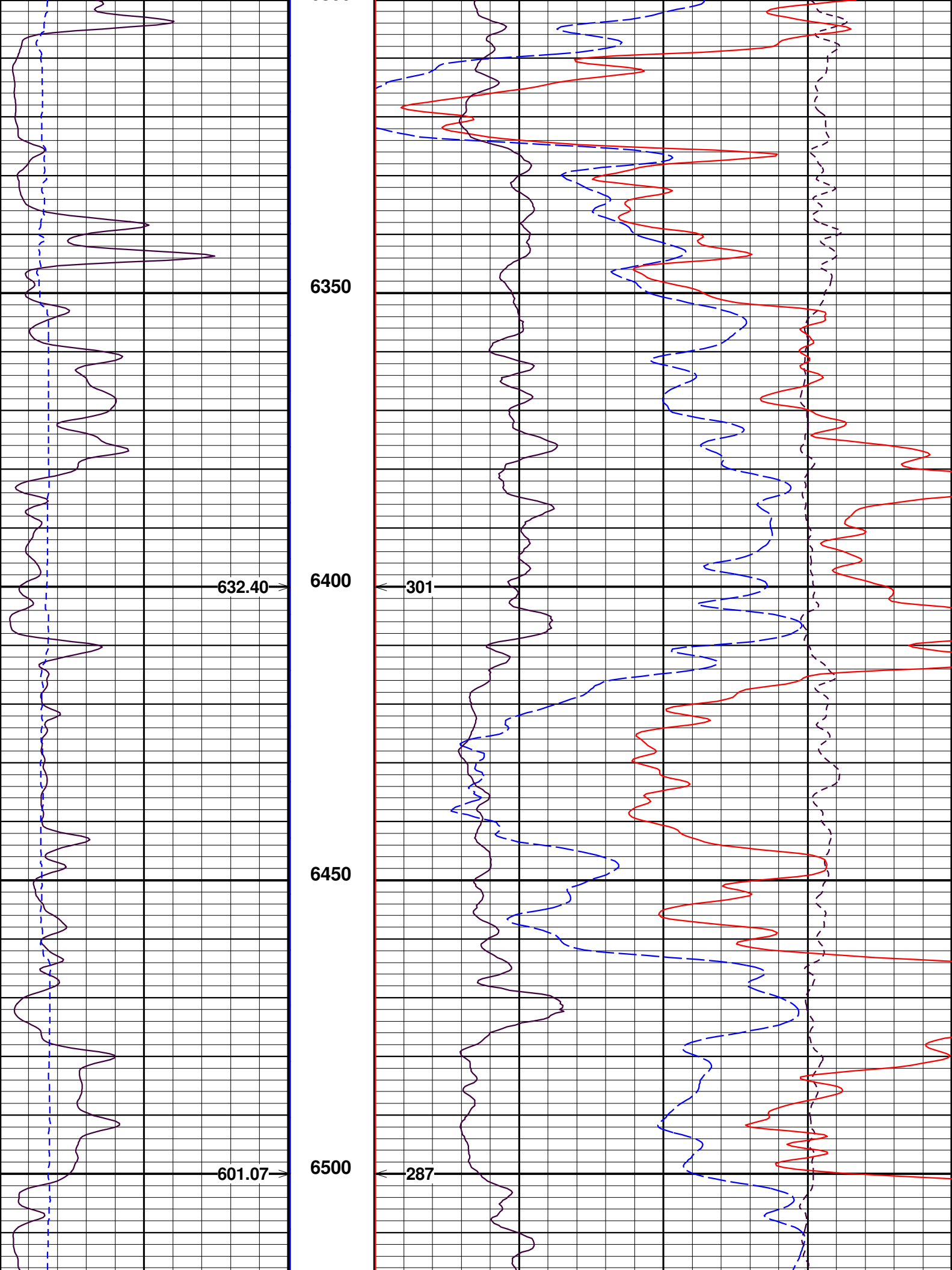


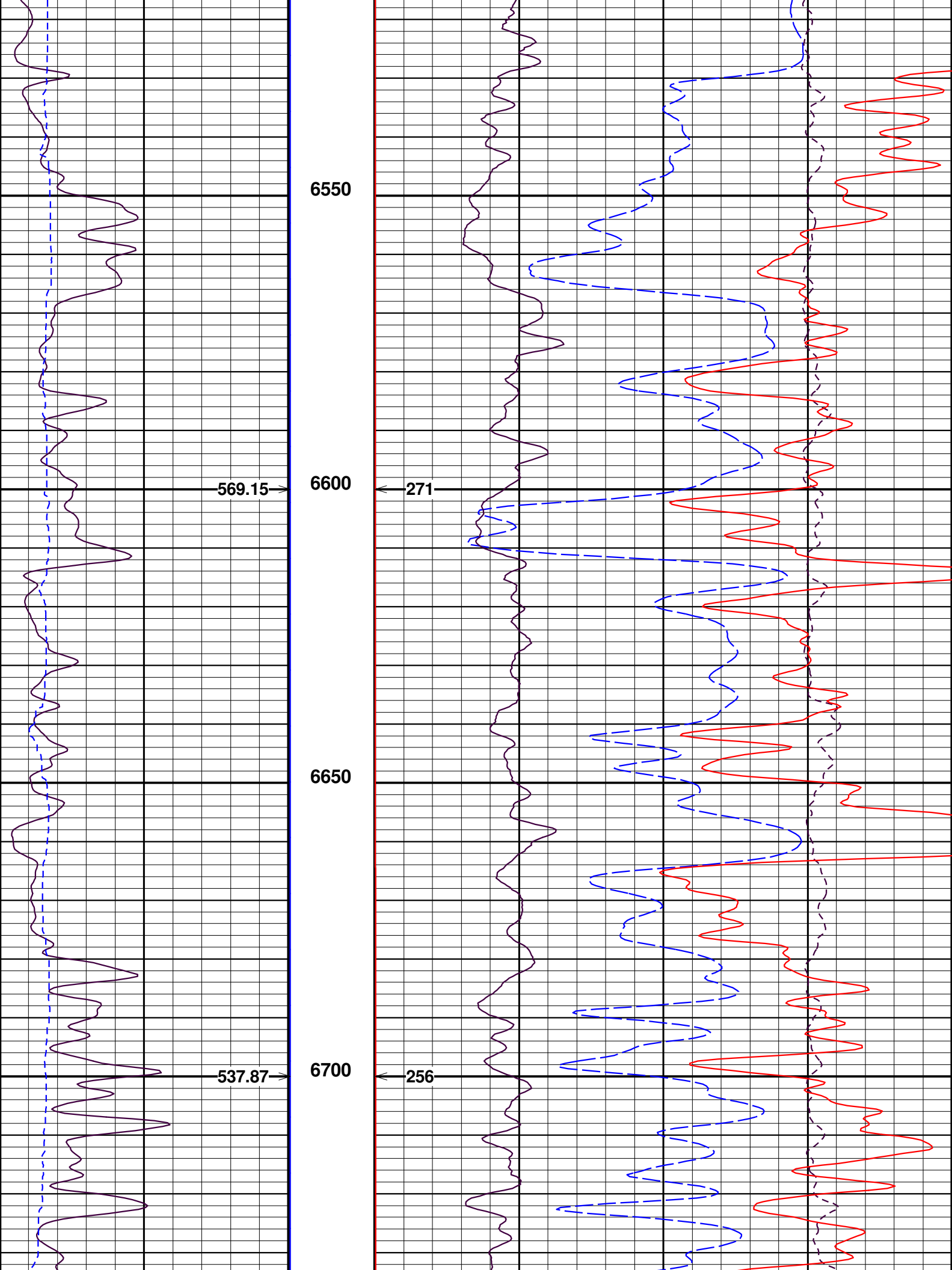


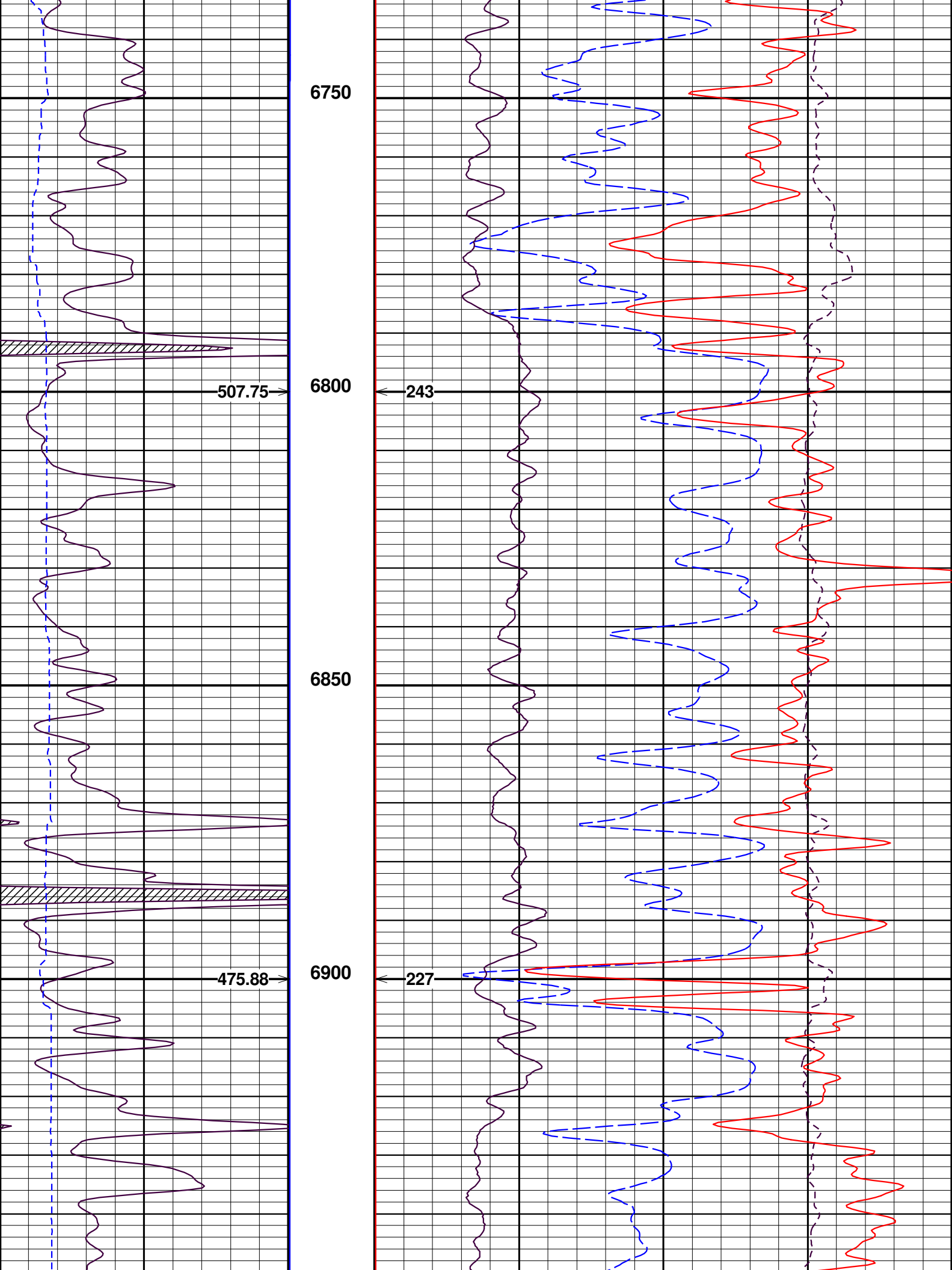


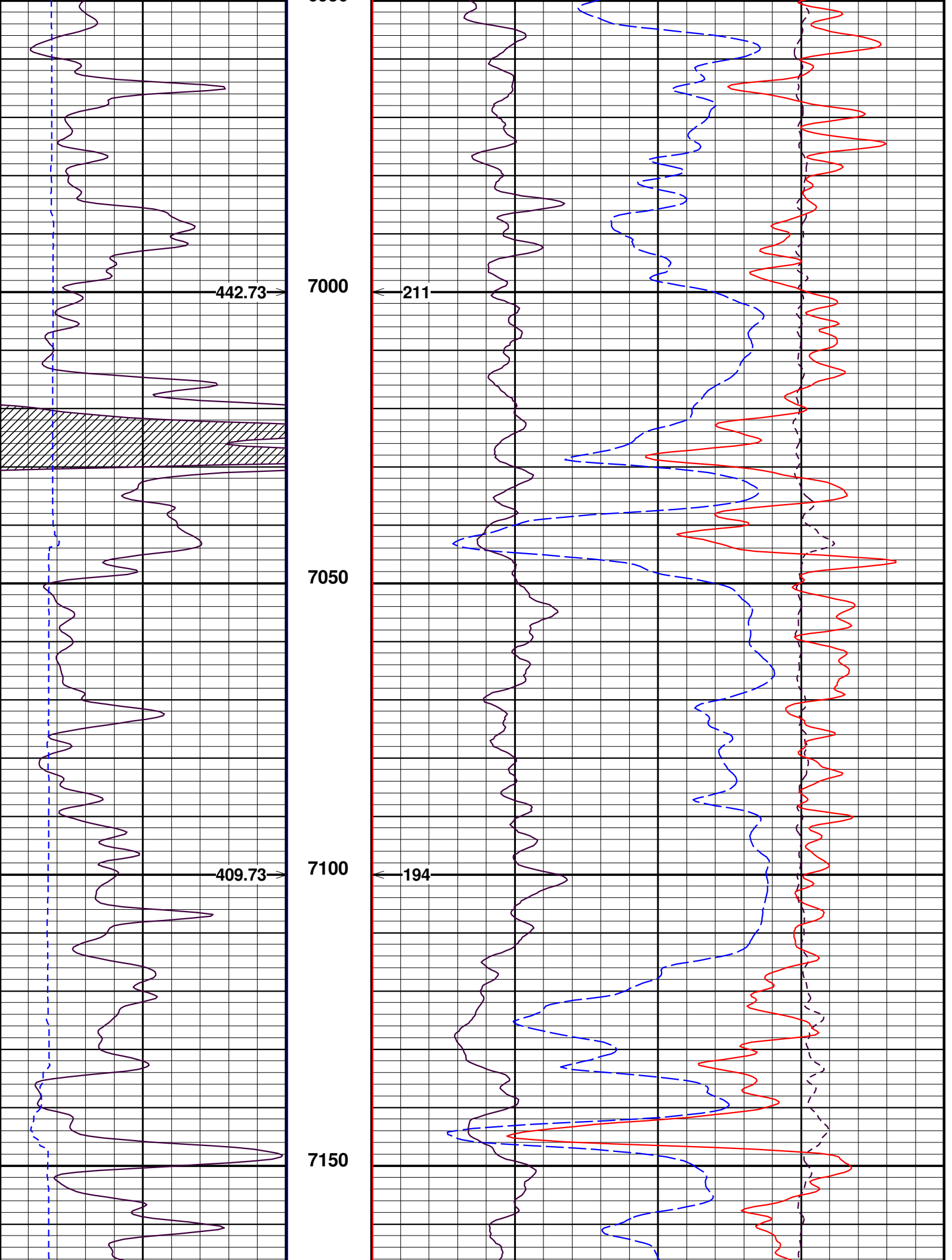


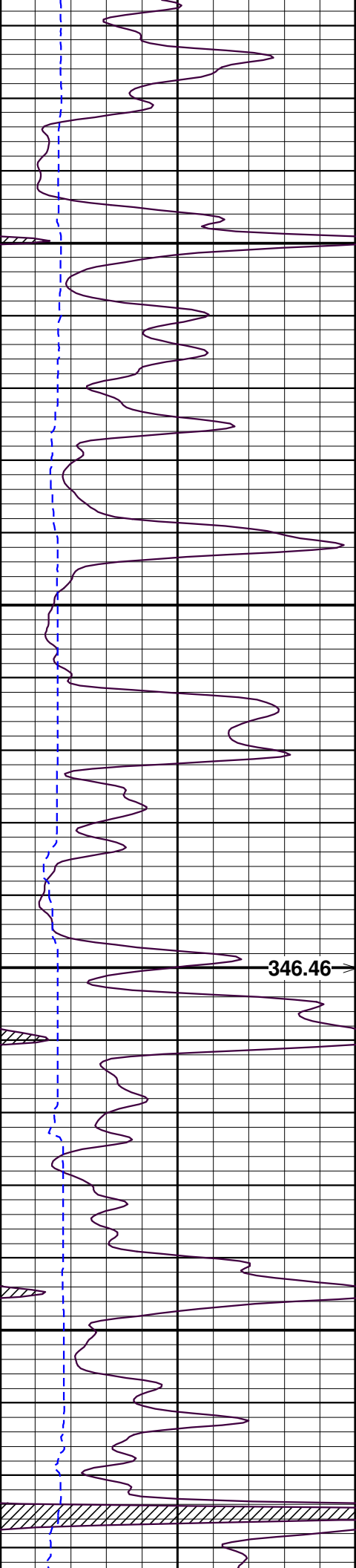












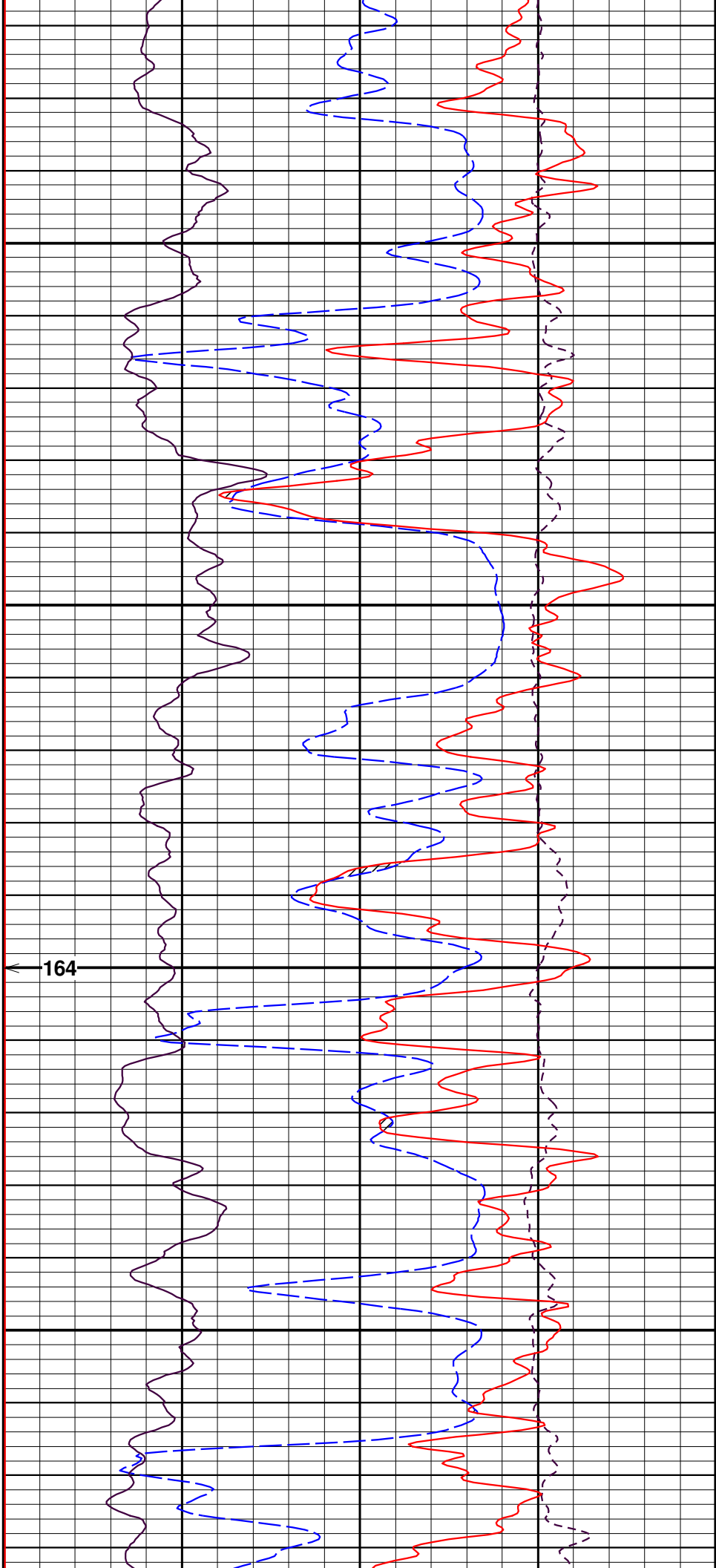
7200

7250

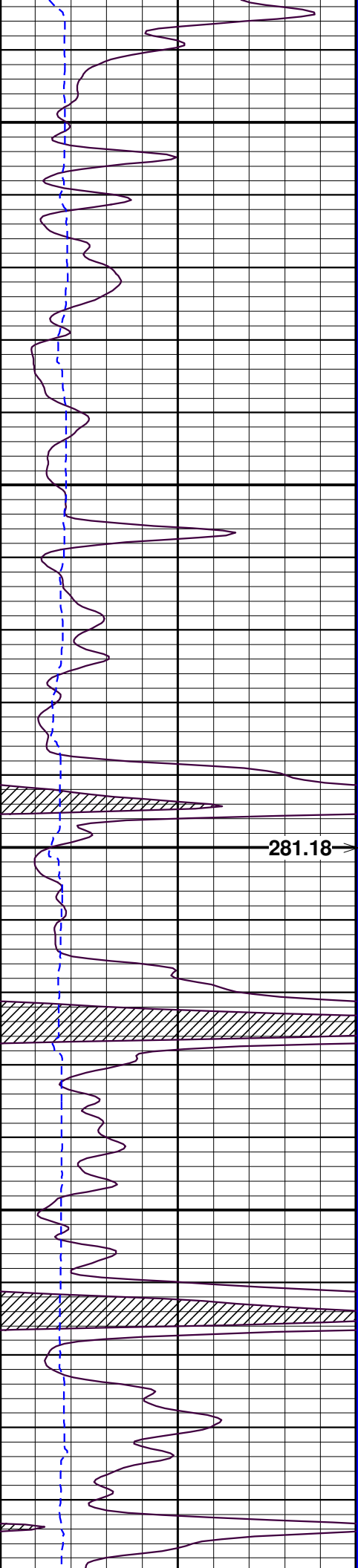
7300

7350

346.46



164



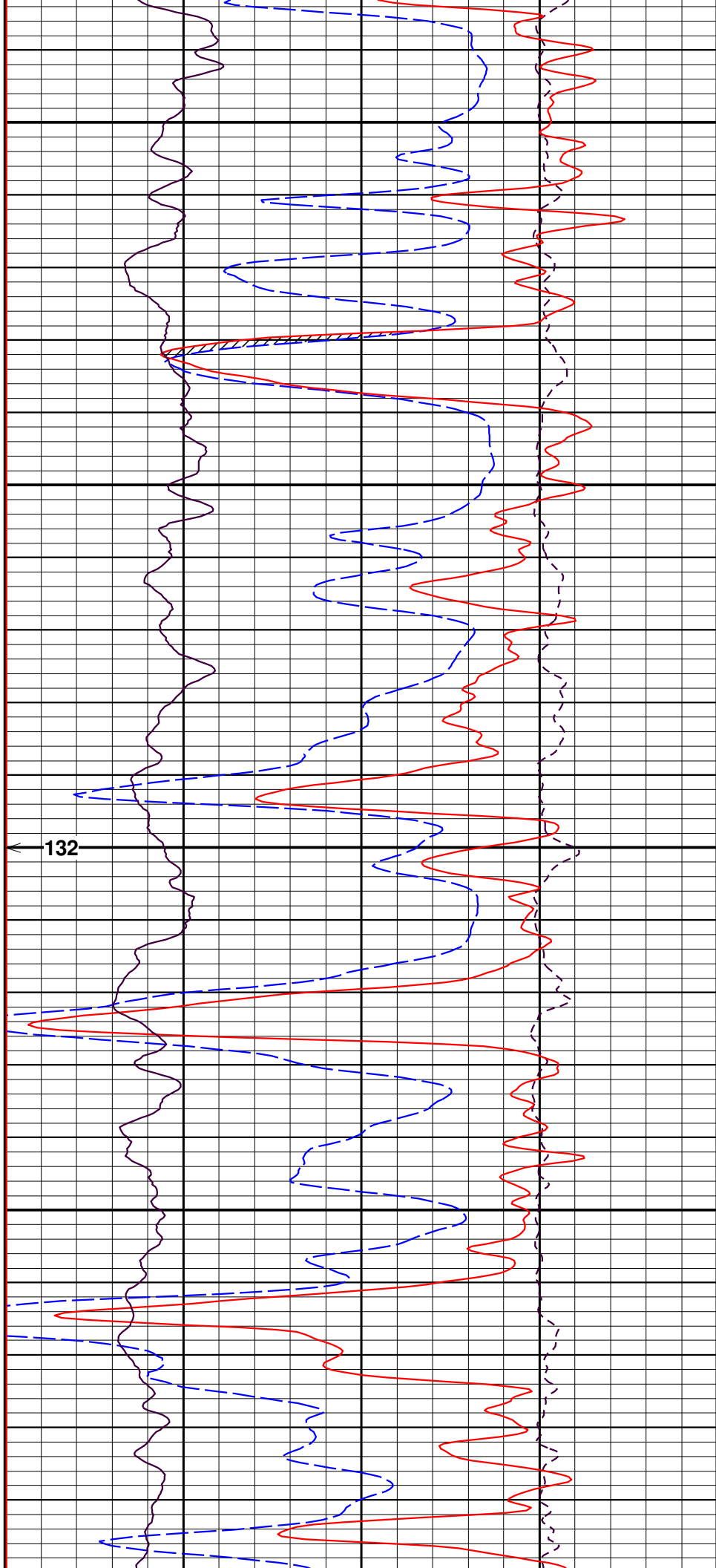
7400

7450

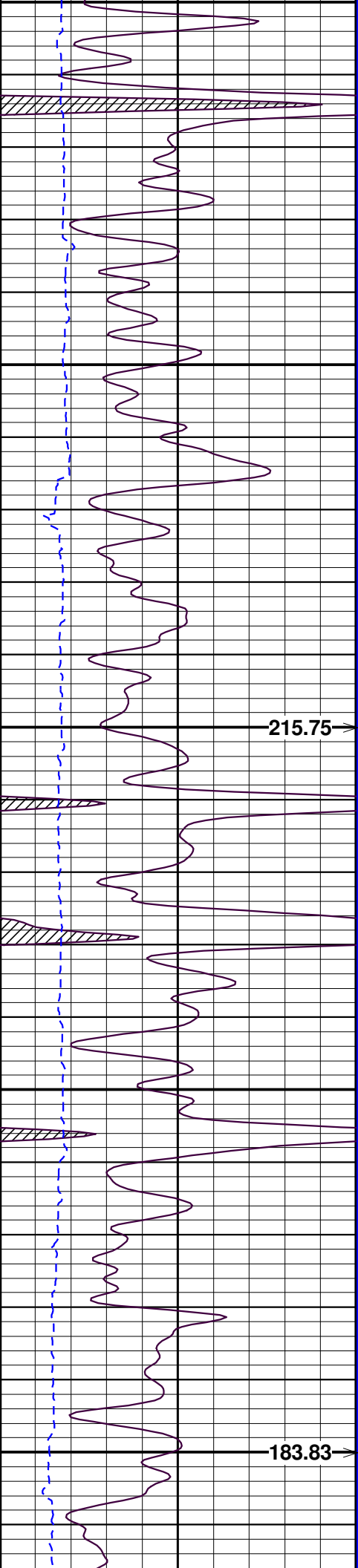
281.18

7500

7550



132

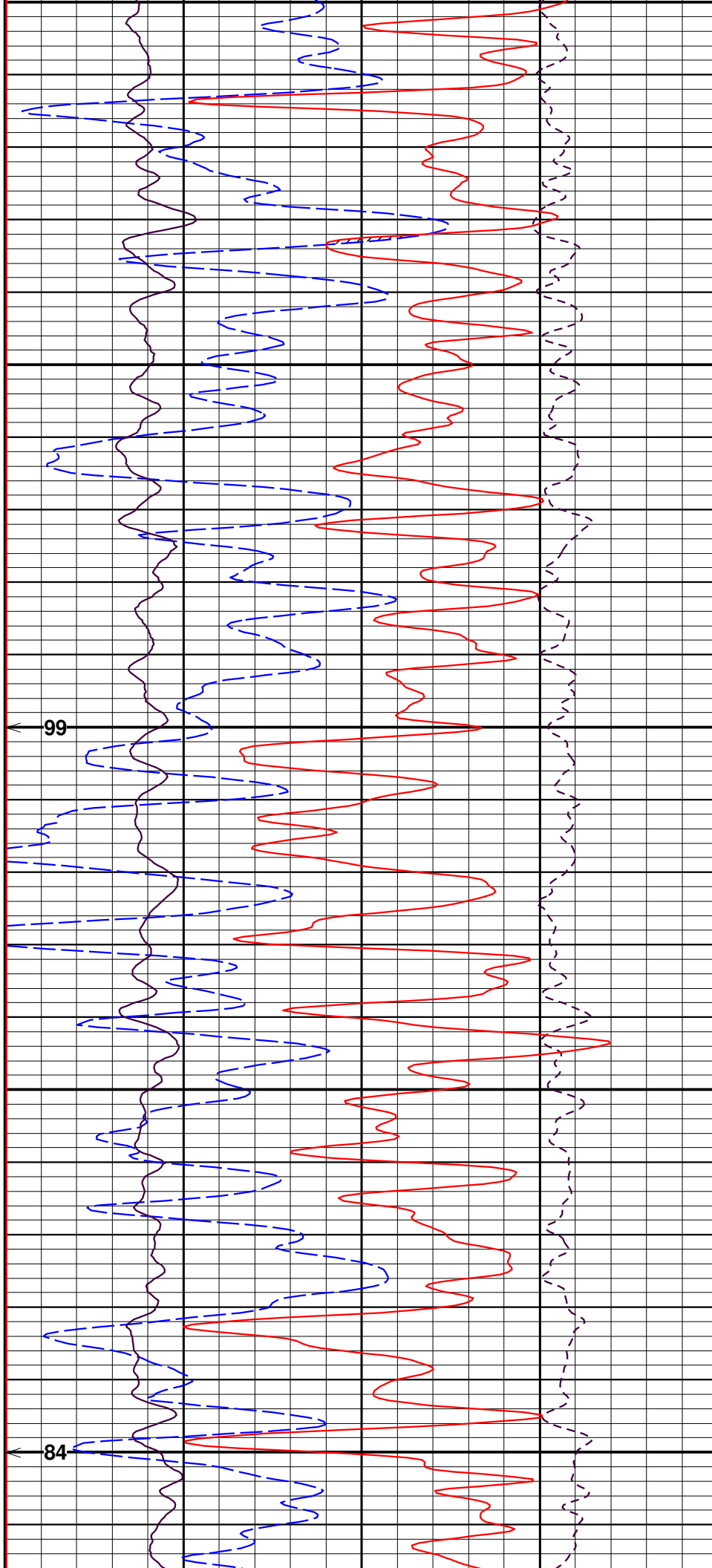


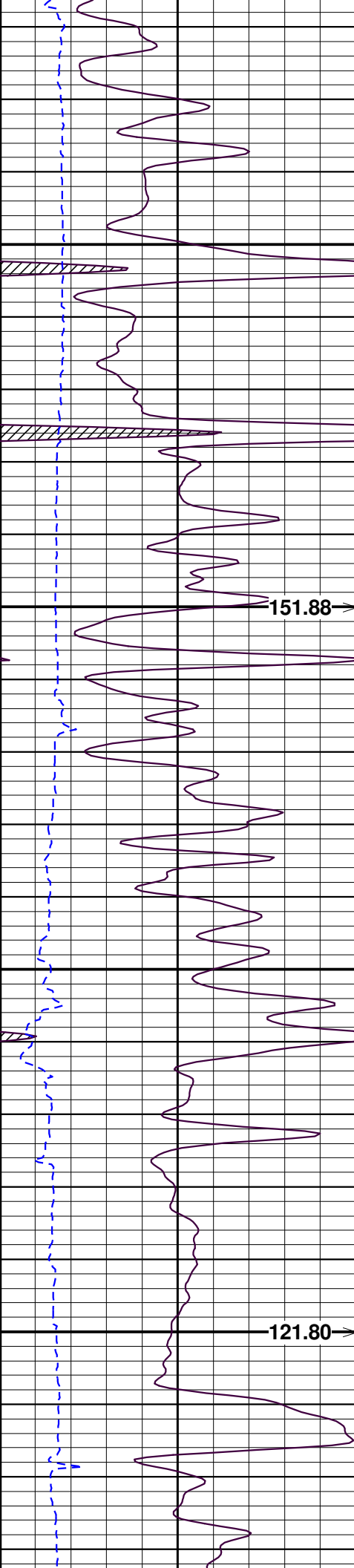
7650

7700

7750

7800





7850

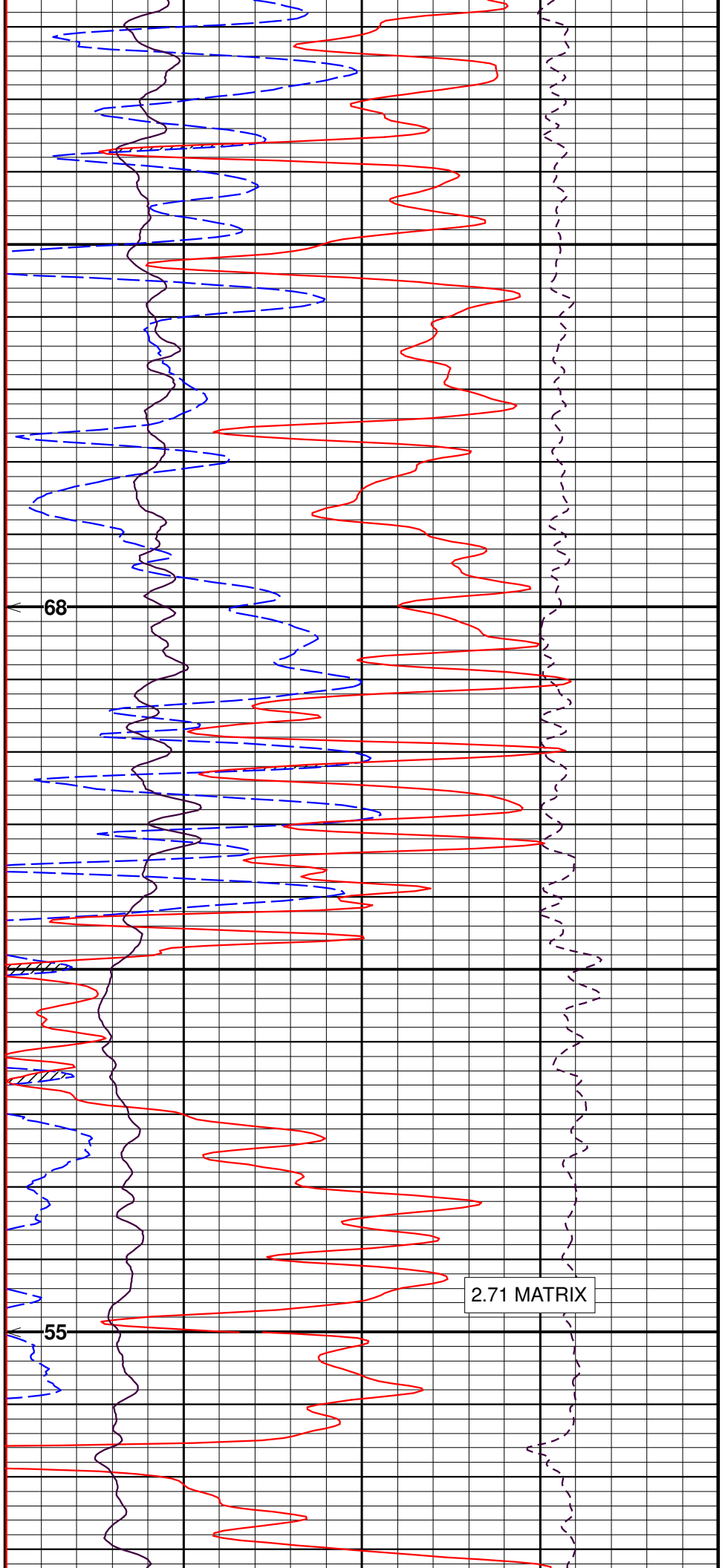
151.88

7900

7950

121.80

8000

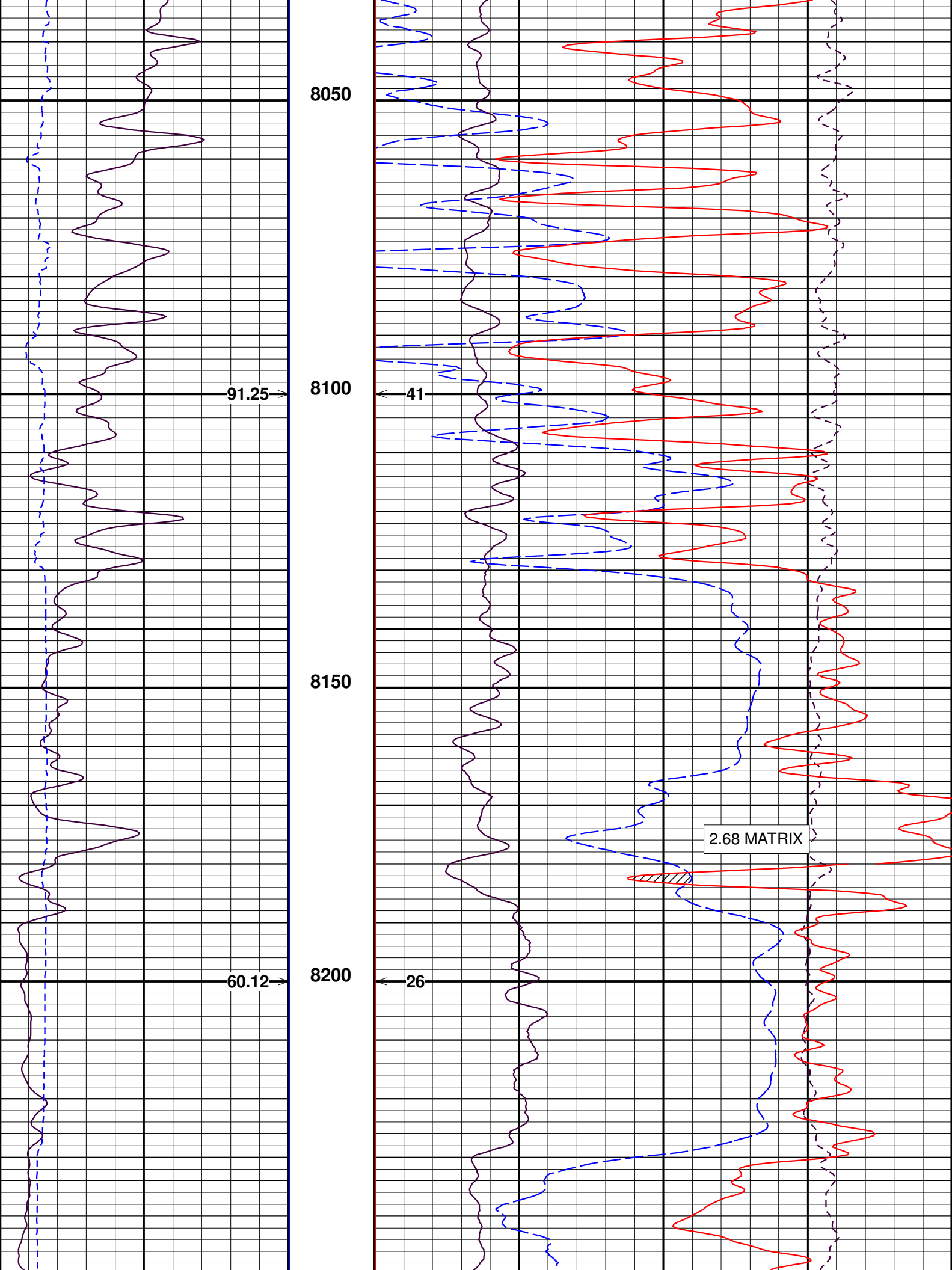


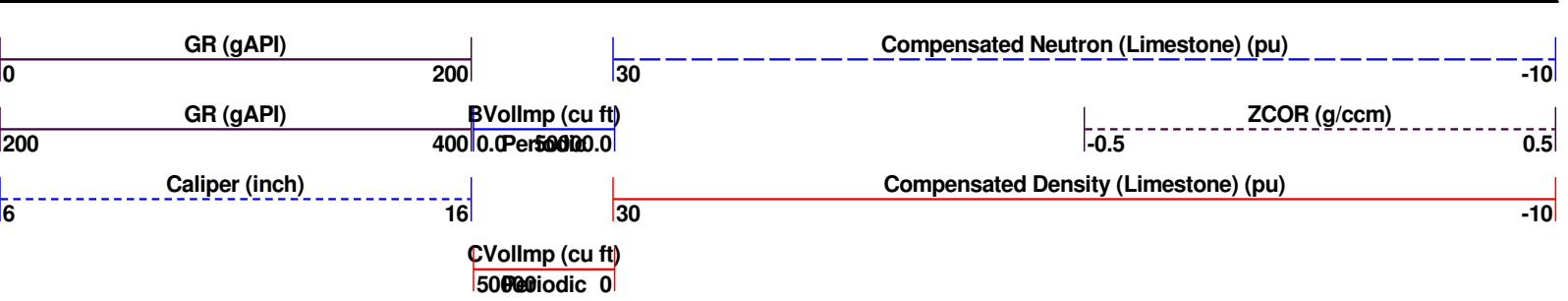
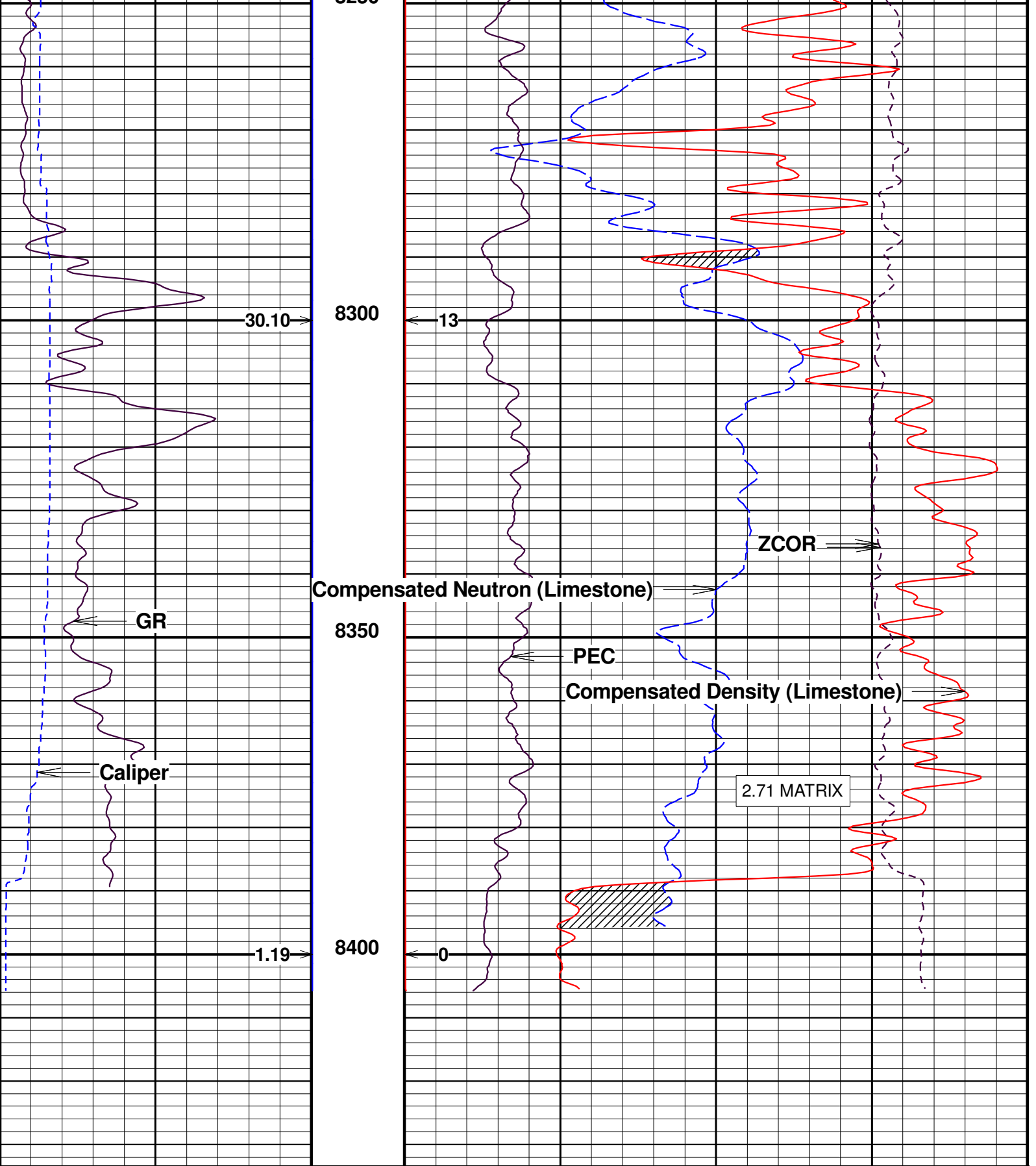
68

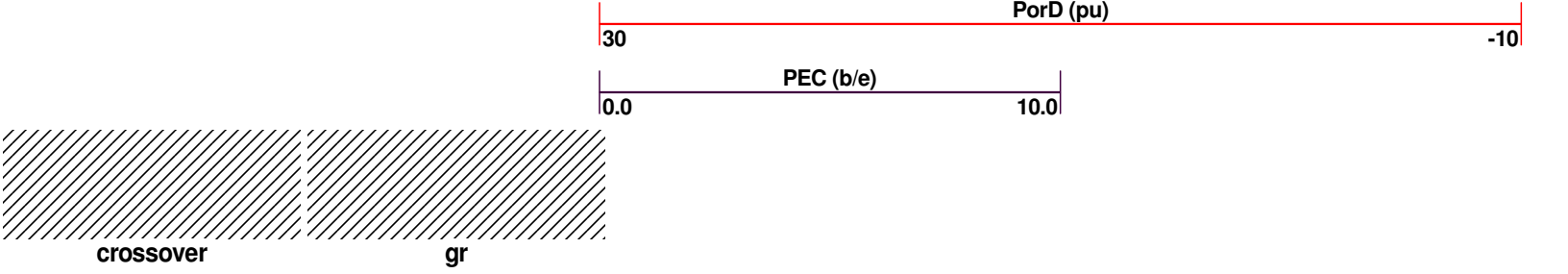
55

2.71 MATRIX





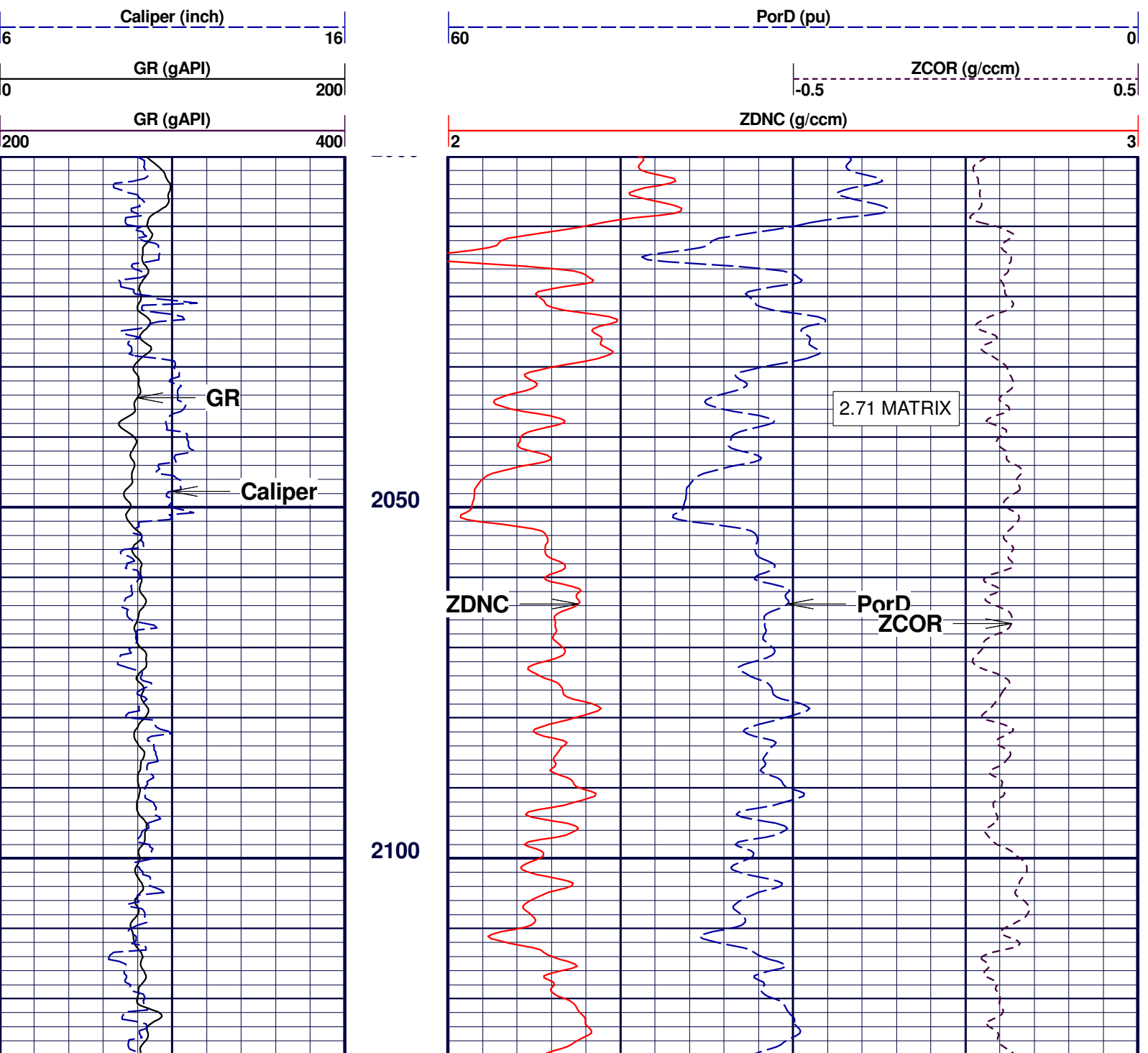


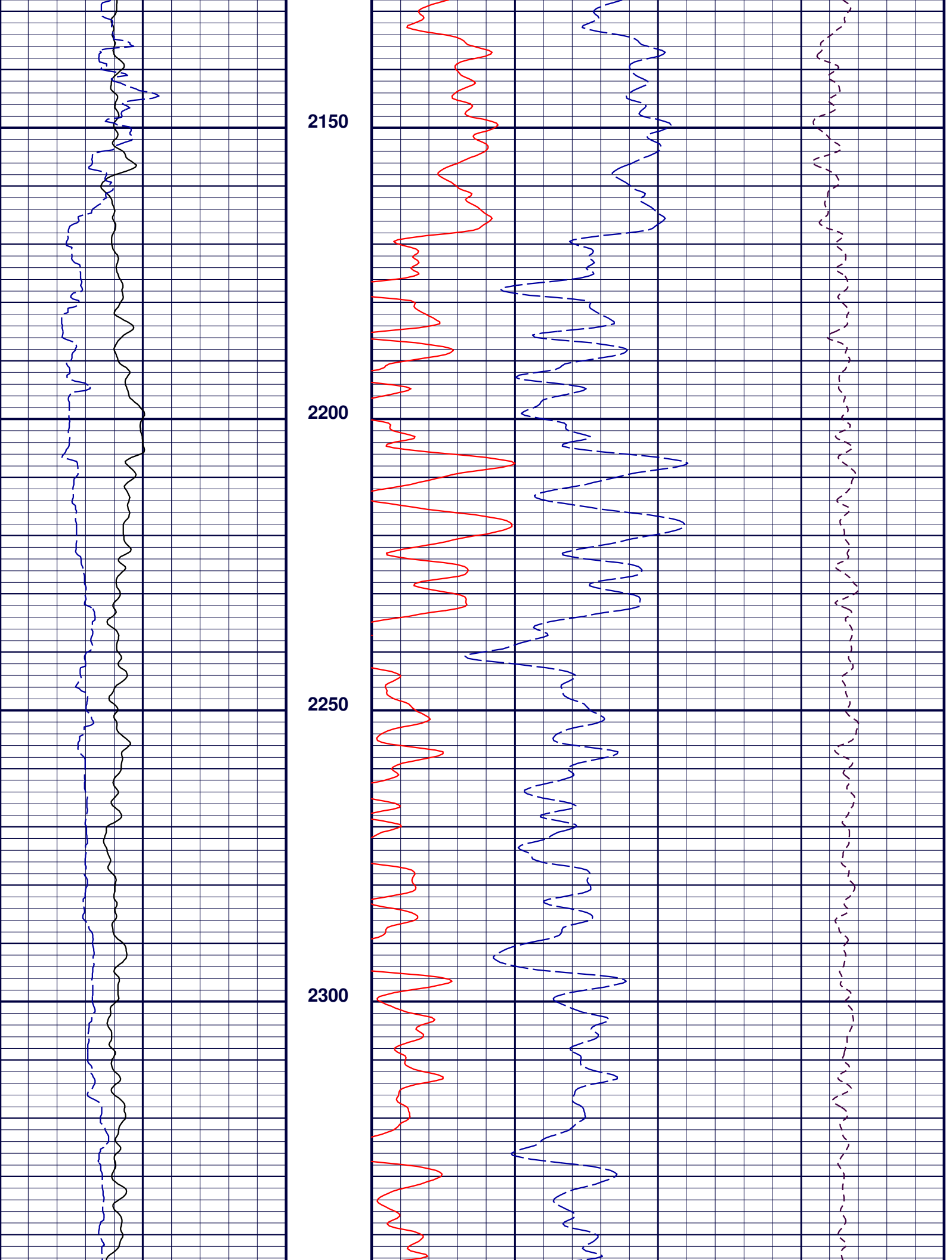


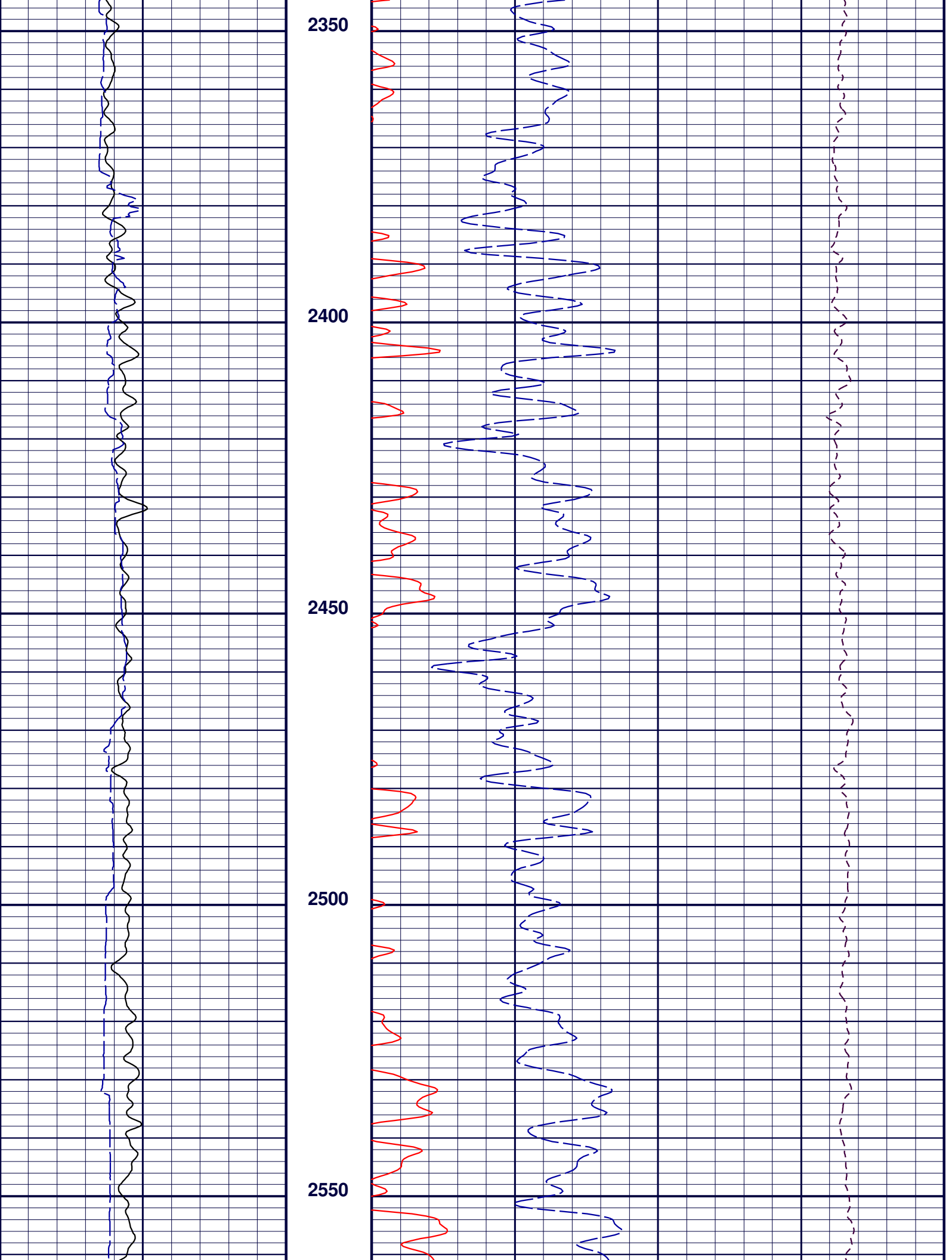
Company : WIEPKING-FULLERTON LLC  
Well : CONQUEST No.14  
Scale : 1 : 240  
Depth in : ft  
Software : WinAPIot Ver. 5, 91, 4, 0

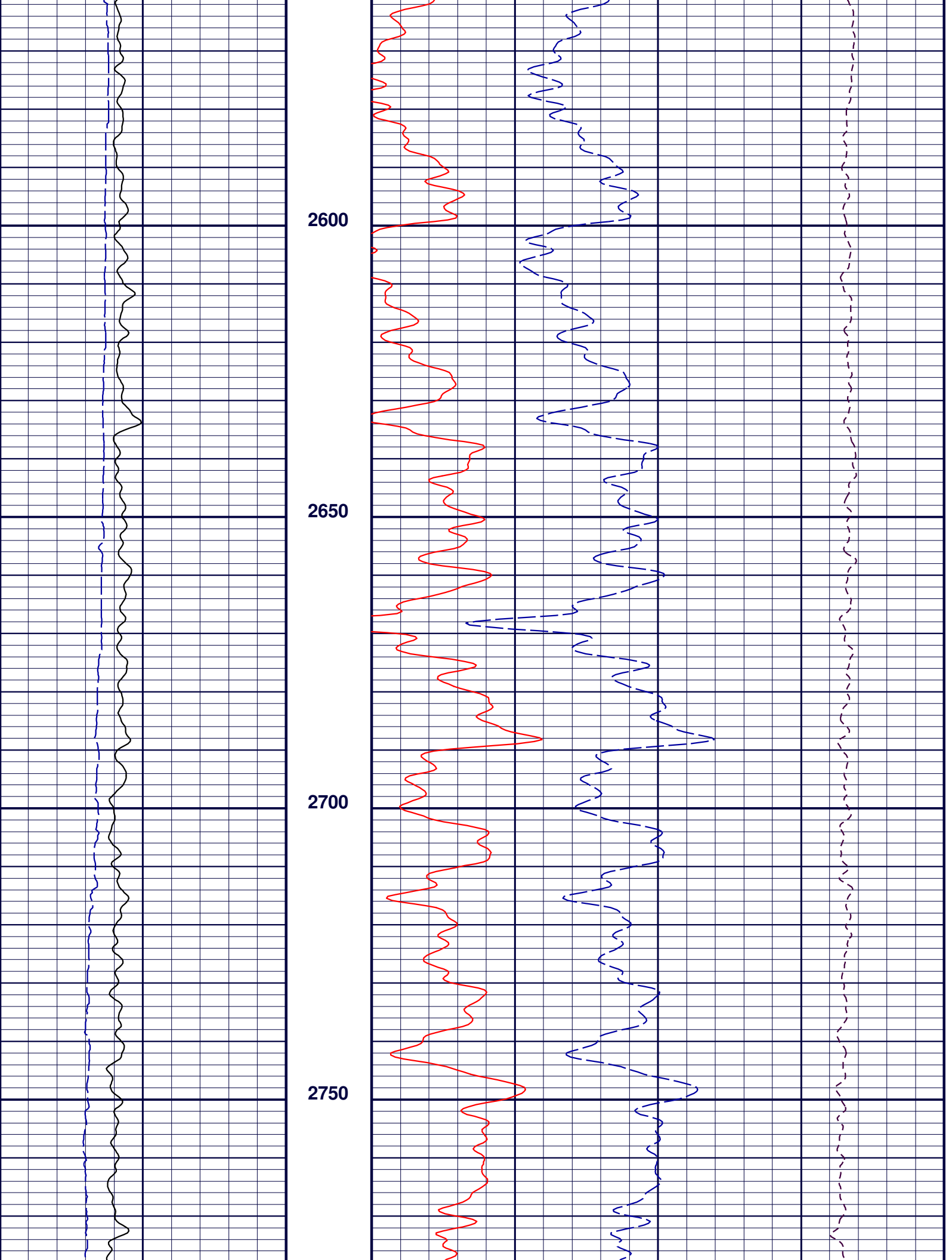
Date : 14.10.2015  
Time : 02:36:34  
Remarks : SO No. 2-014073

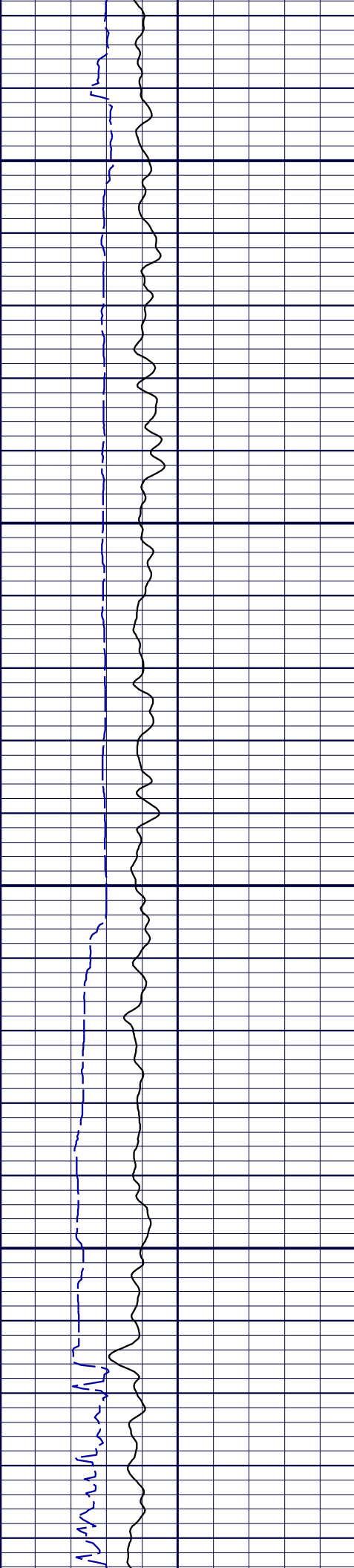
File Names : CONQUEST No.14\_RECOMPUTE MATRIX  
: ORIGINAL LOG PLUS VOL









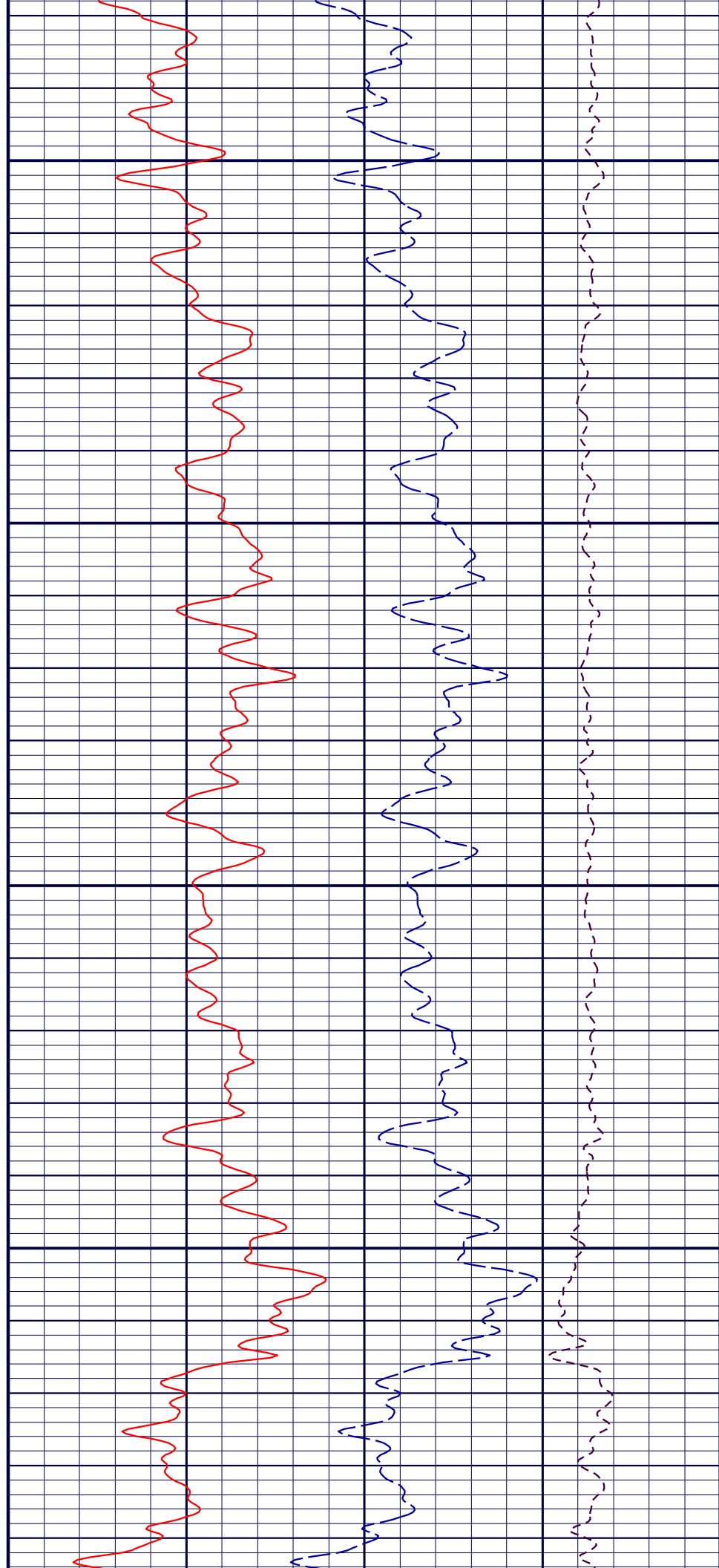


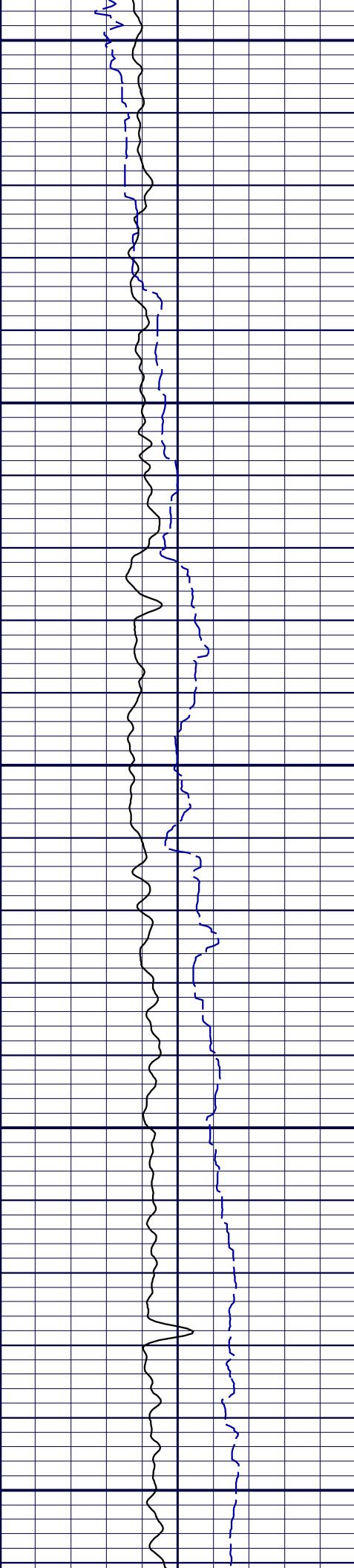
2800

2850

2900

2950





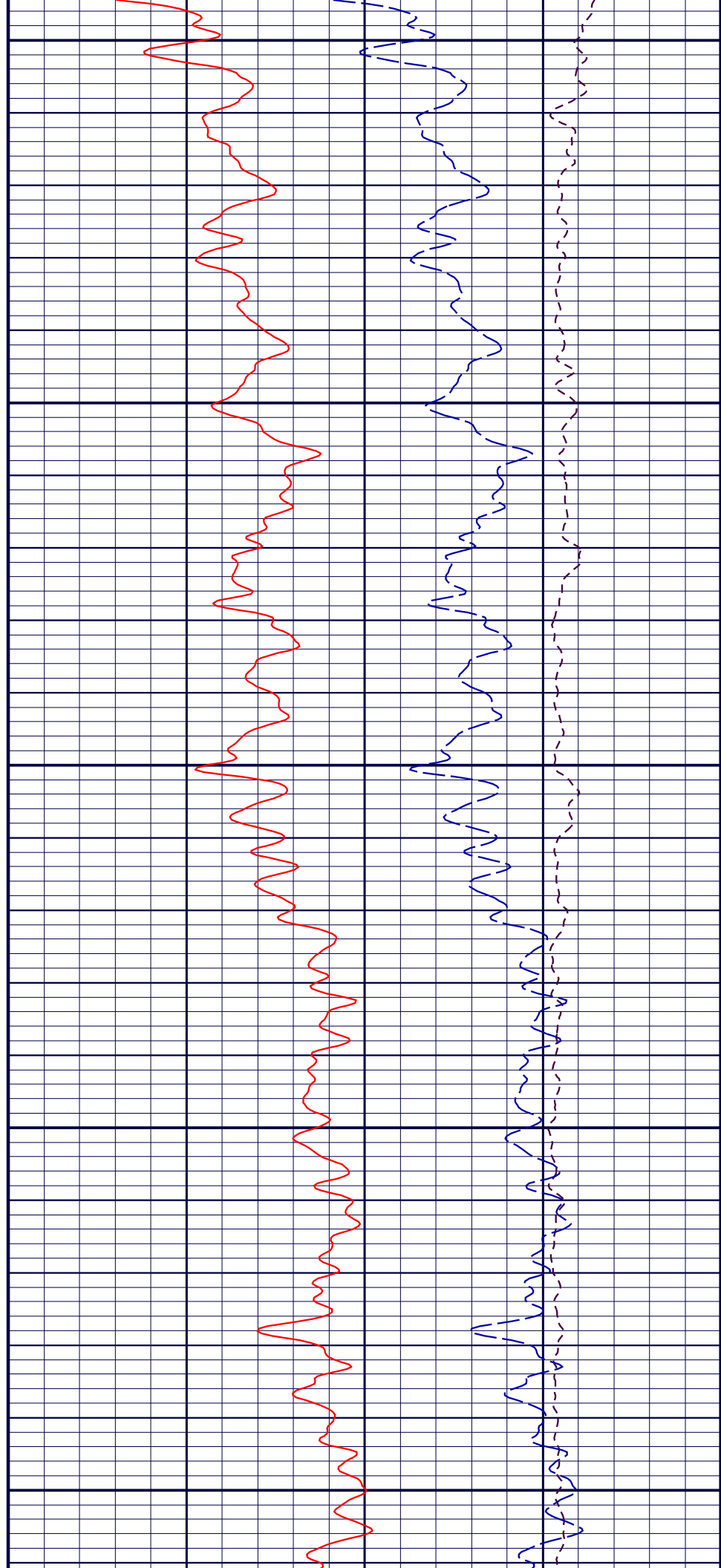
3000

3050

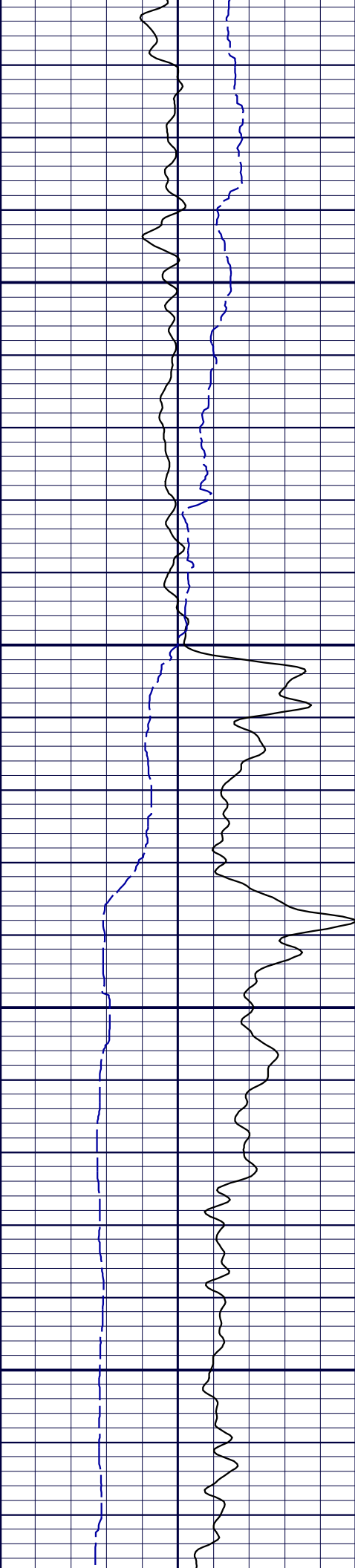
3100

3150

3200





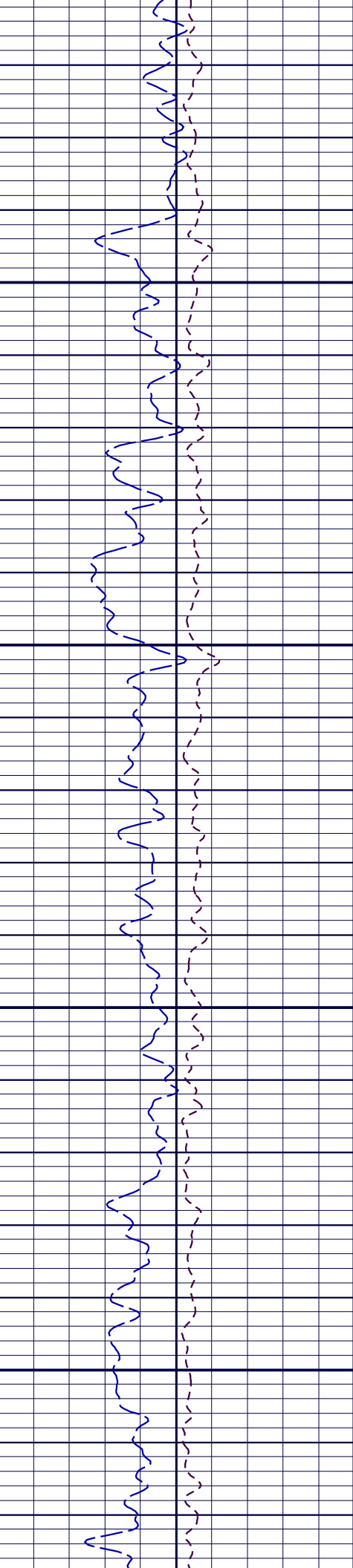
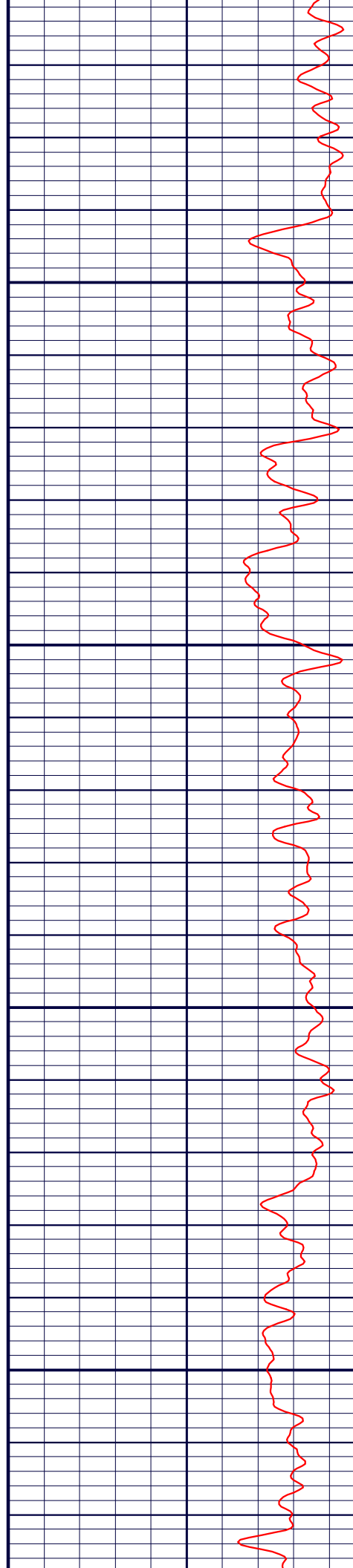


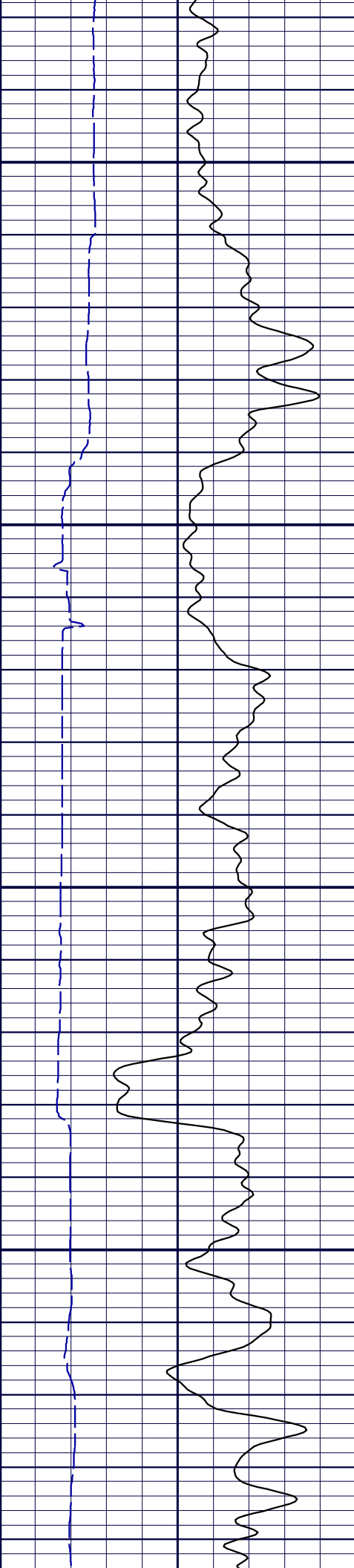
3250

3300

3350

3400



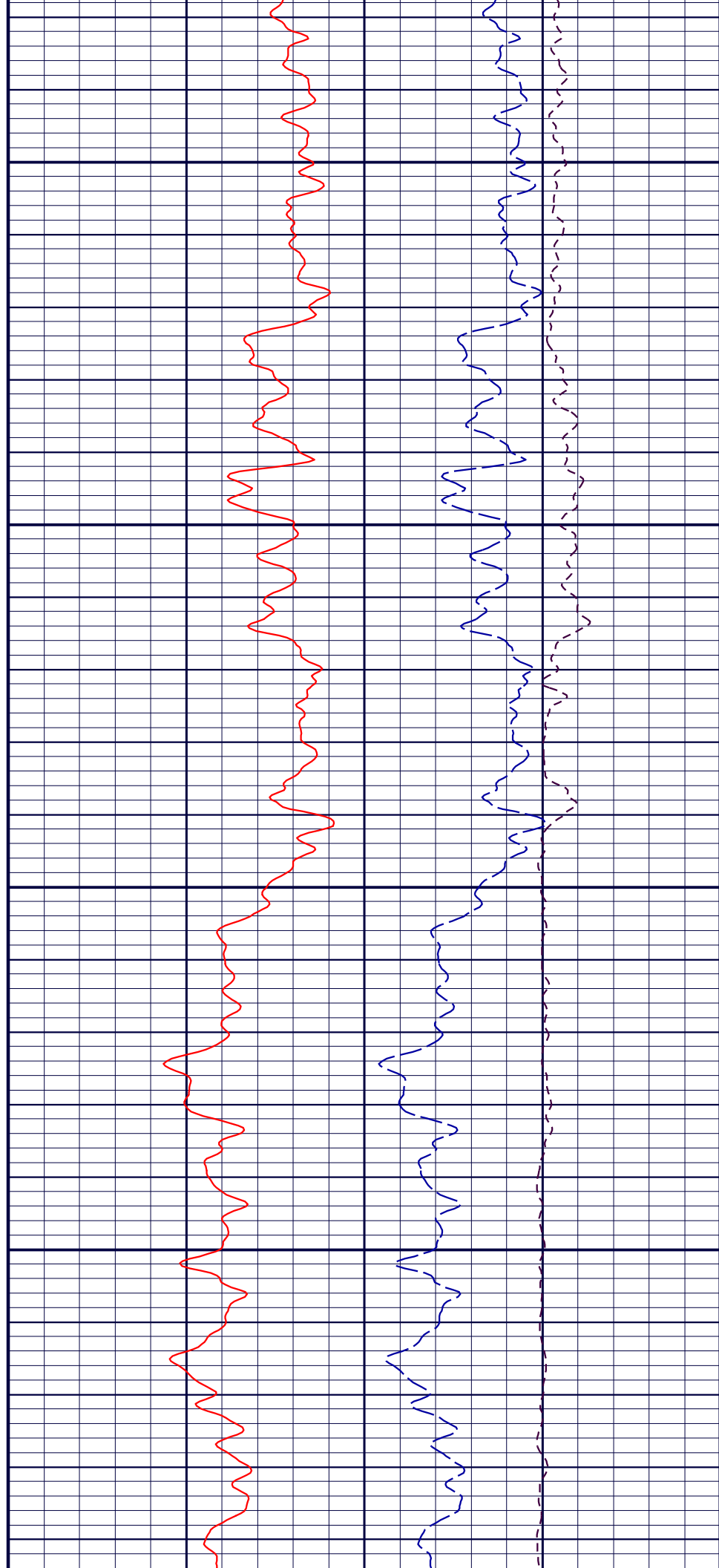


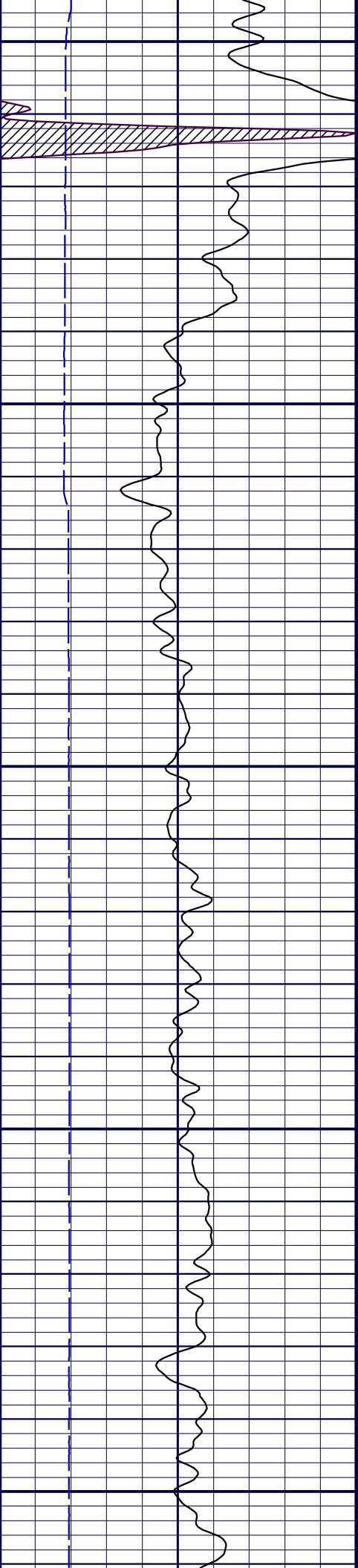
3450

3500

3550

3600





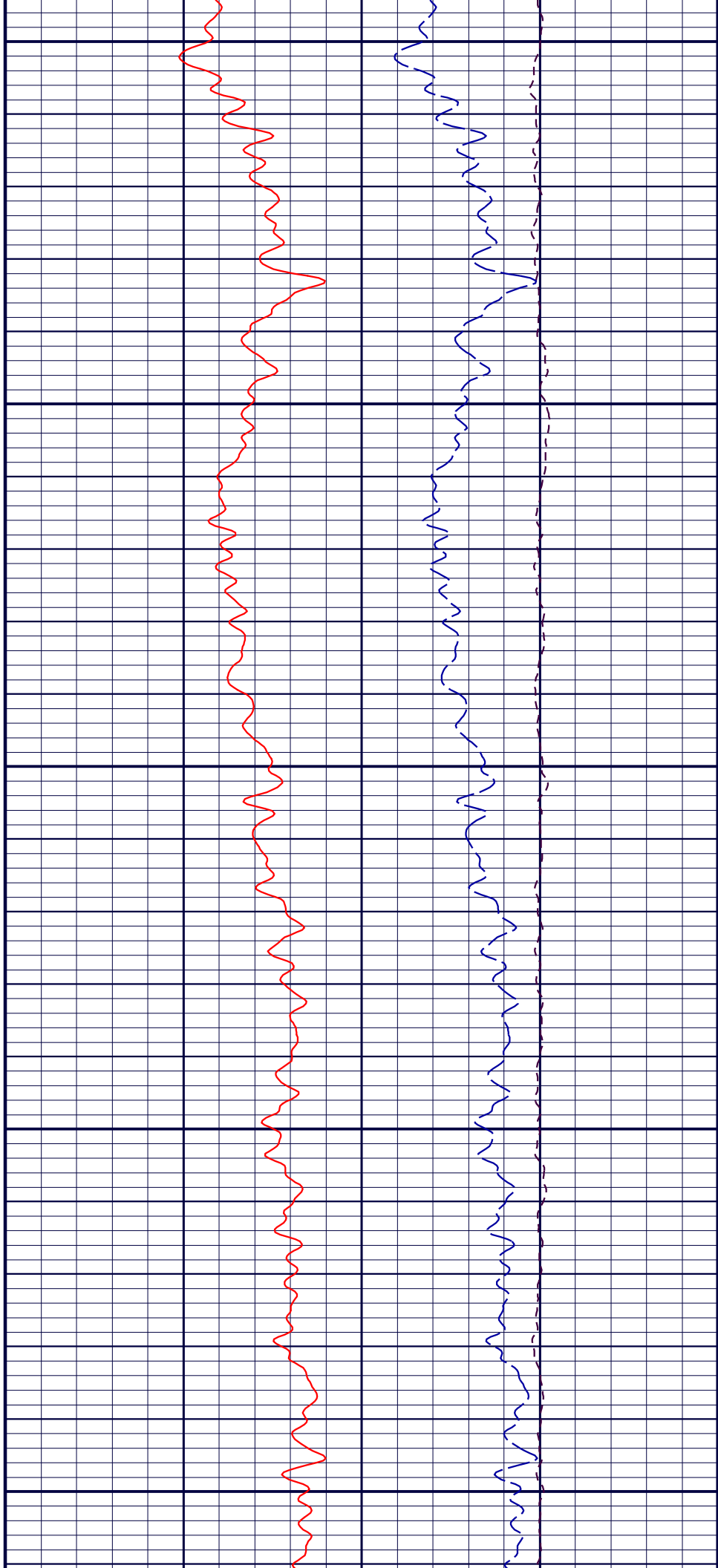
3650

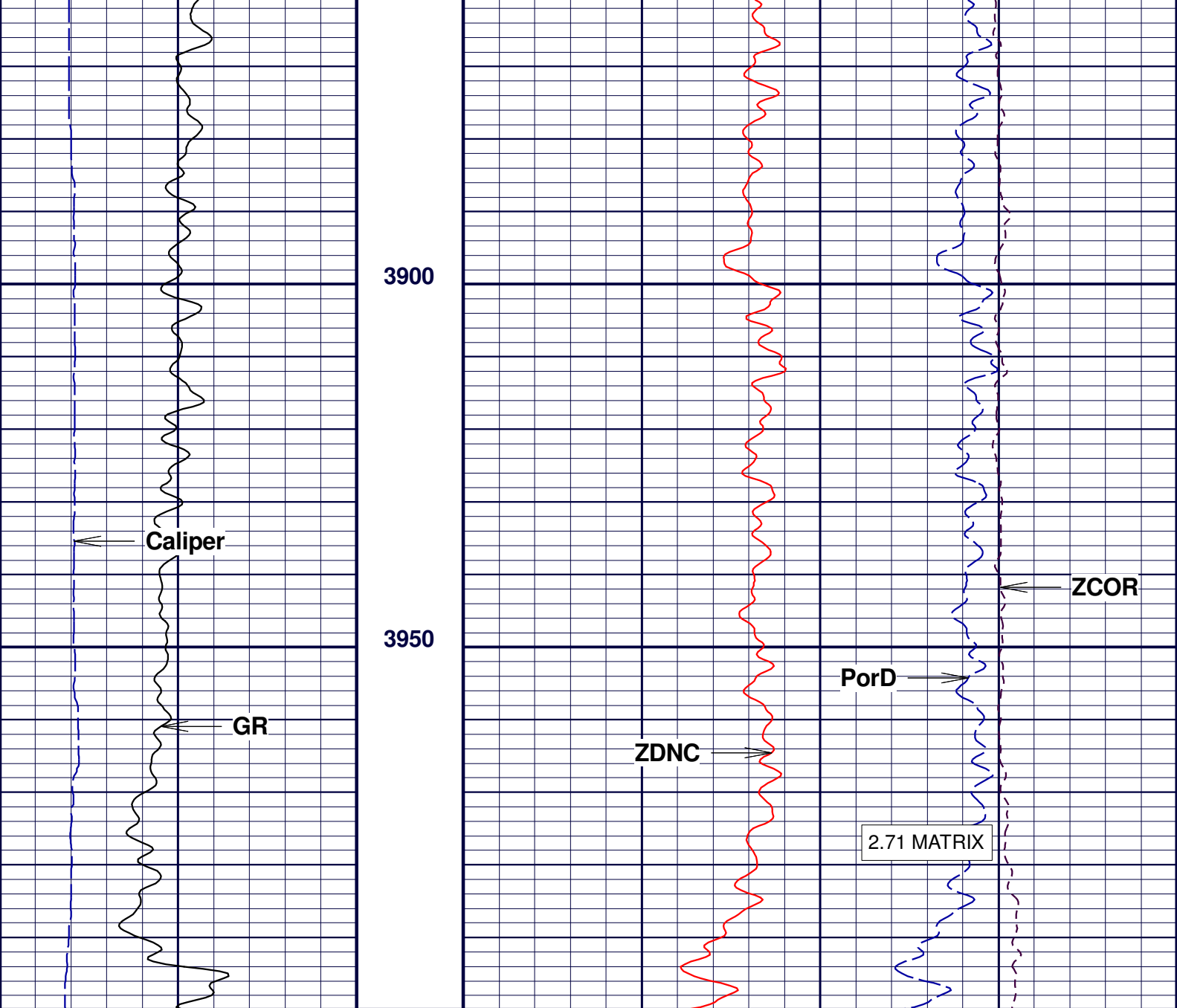
3700

3750

3800

3850

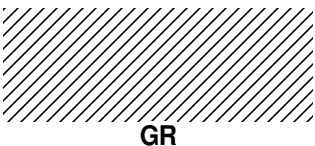




GR (gAPI) 0 200

GR (gAPI) 200 400

Caliper (inch) 6 16



GR

ZDNC (g/ccm) 2 3

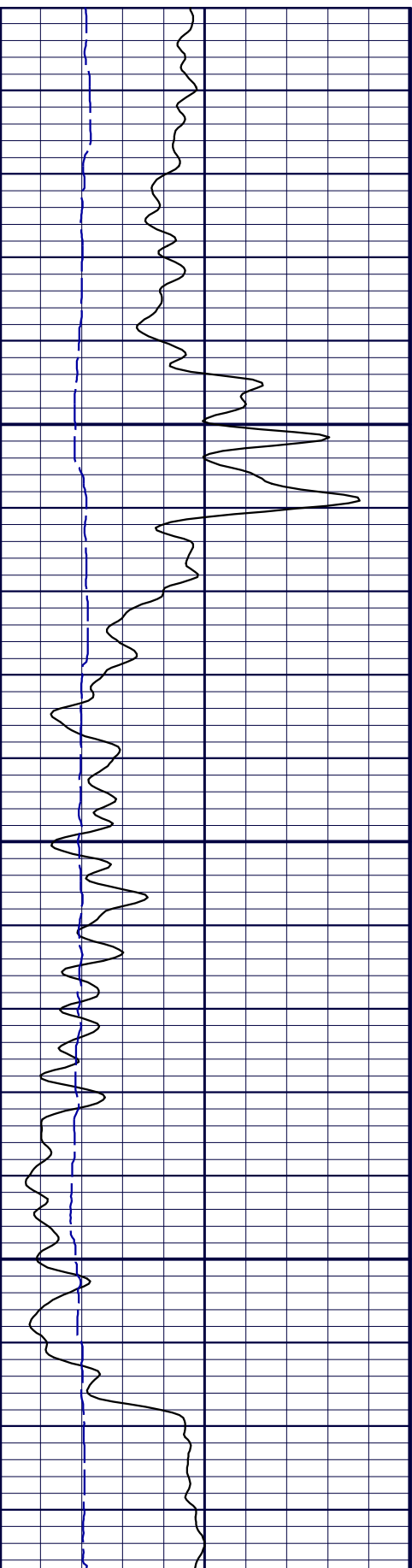
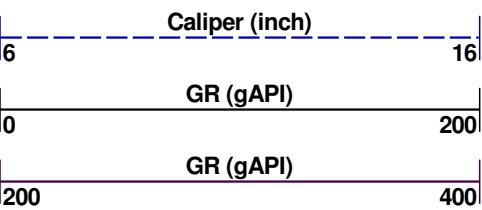
ZCOR (g/ccm) -0.5 0.5

PorD (pu) 60 0

Company : WIEPKING-FULLERTON LLC  
Well : CONQUEST No.14  
Scale : 1 : 240  
Depth in : ft  
Software : WinAPIPlot Ver. 5, 91, 4, 0

Date : 14.10.2015  
Time : 02:36:34  
Remarks : SO No. 2-014073

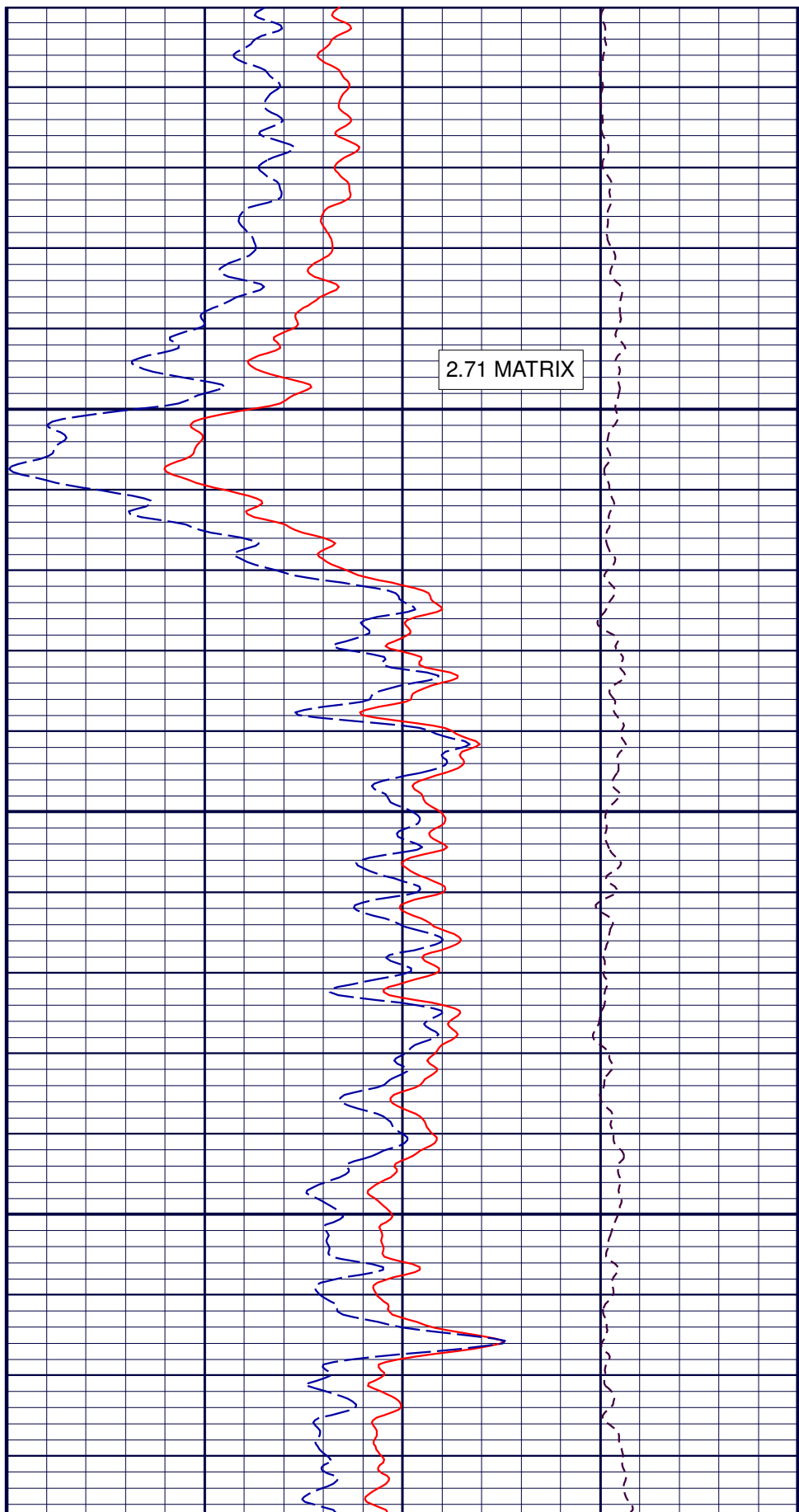
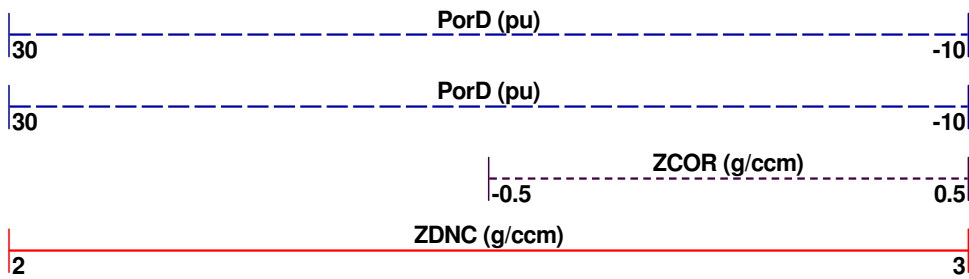
File Names : CONQUEST No.14\_RECOMPUTE MATRIX  
: ORIGINAL LOG PLUS VOL



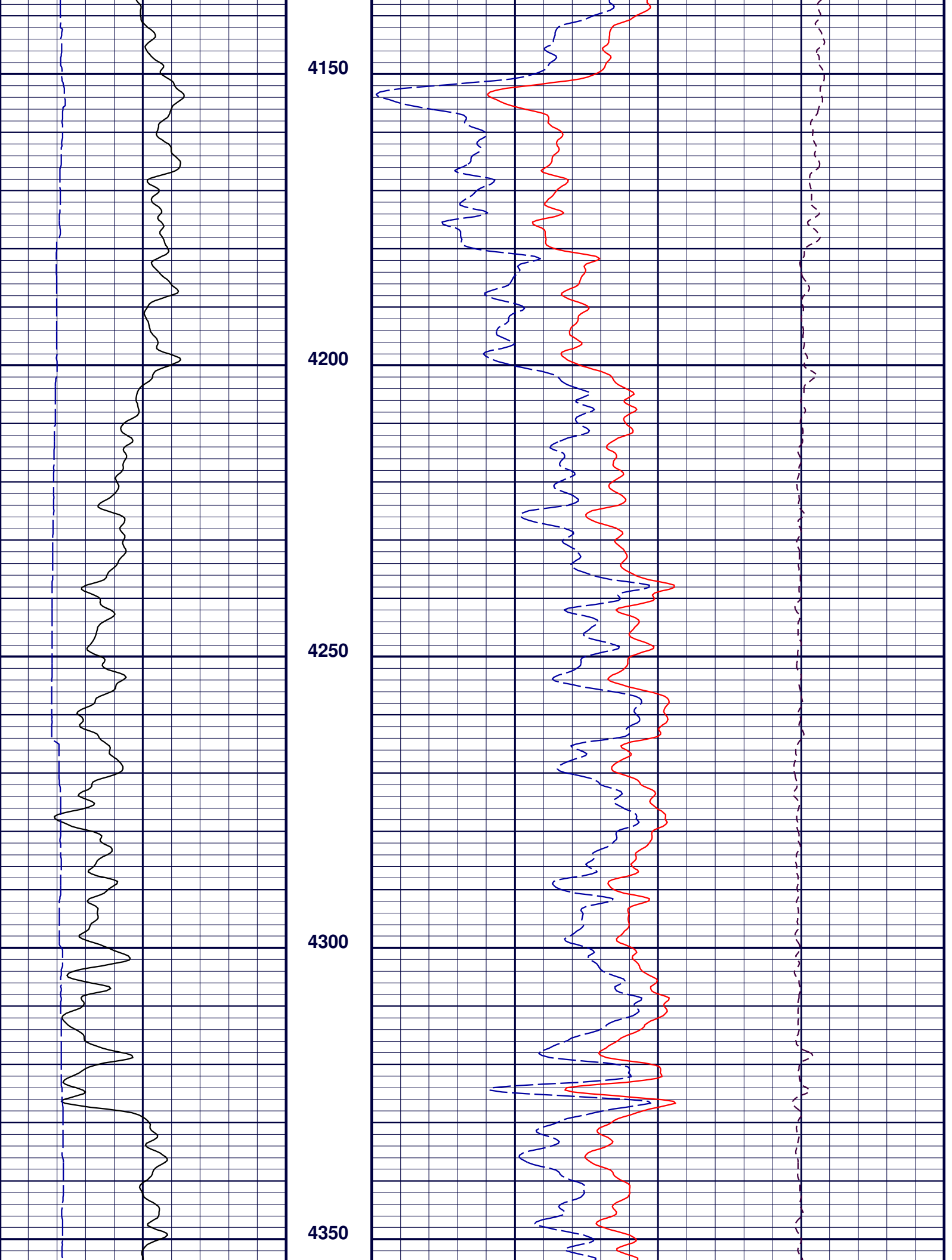
4000

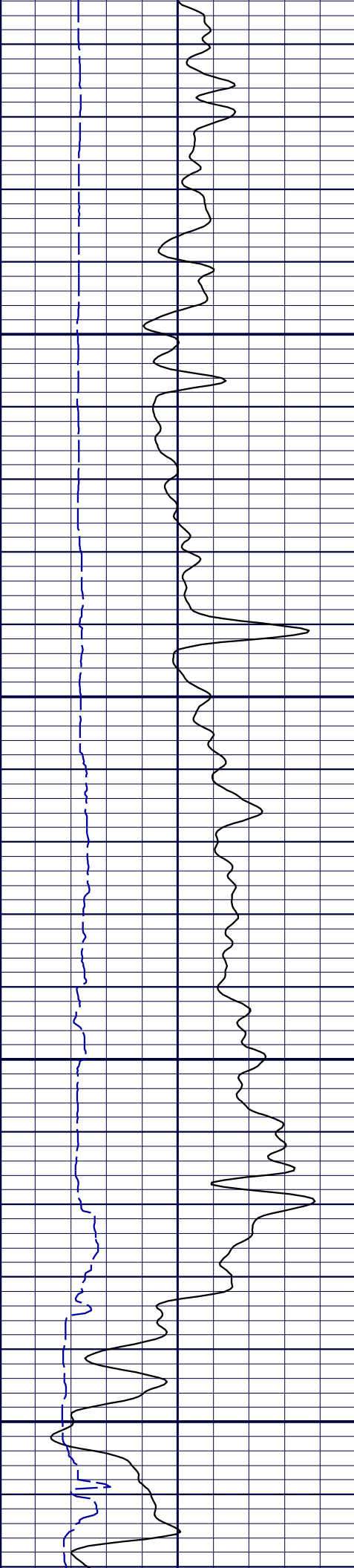
4050

4100



2.71 MATRIX



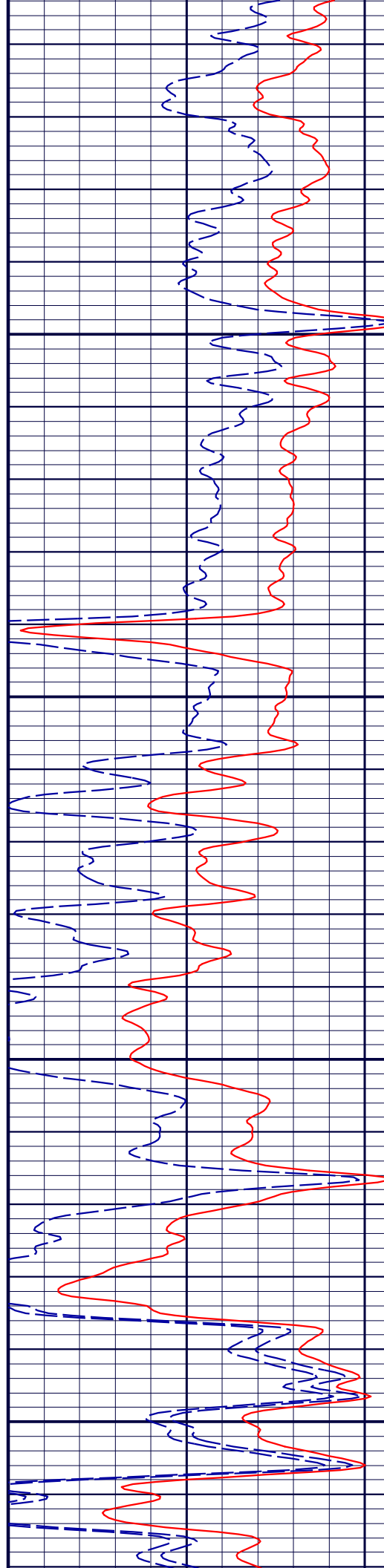


4400

4450

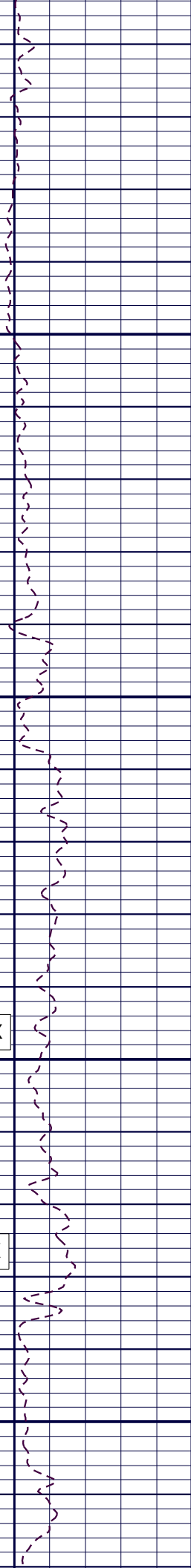
4500

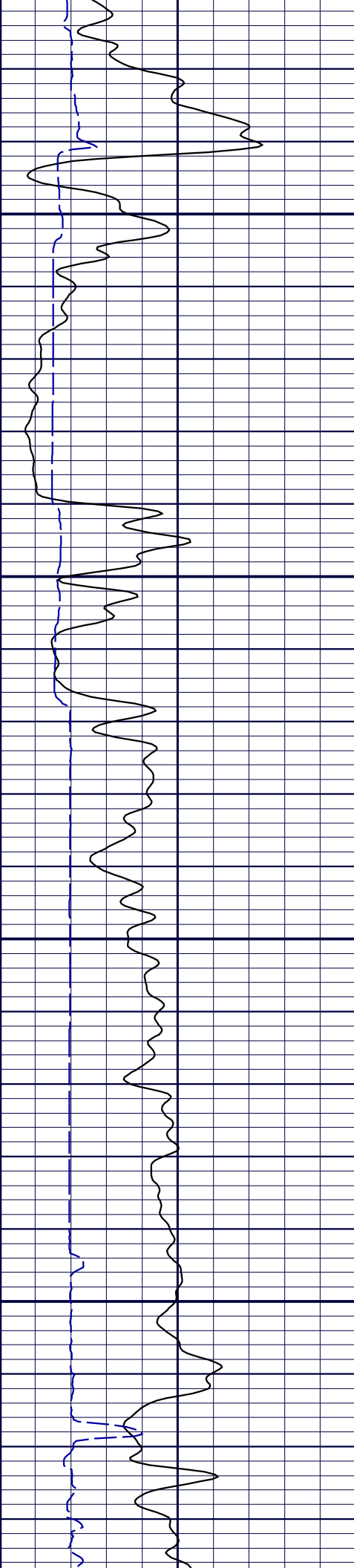
4550



2.71 MATRIX

2.68 MATRIX



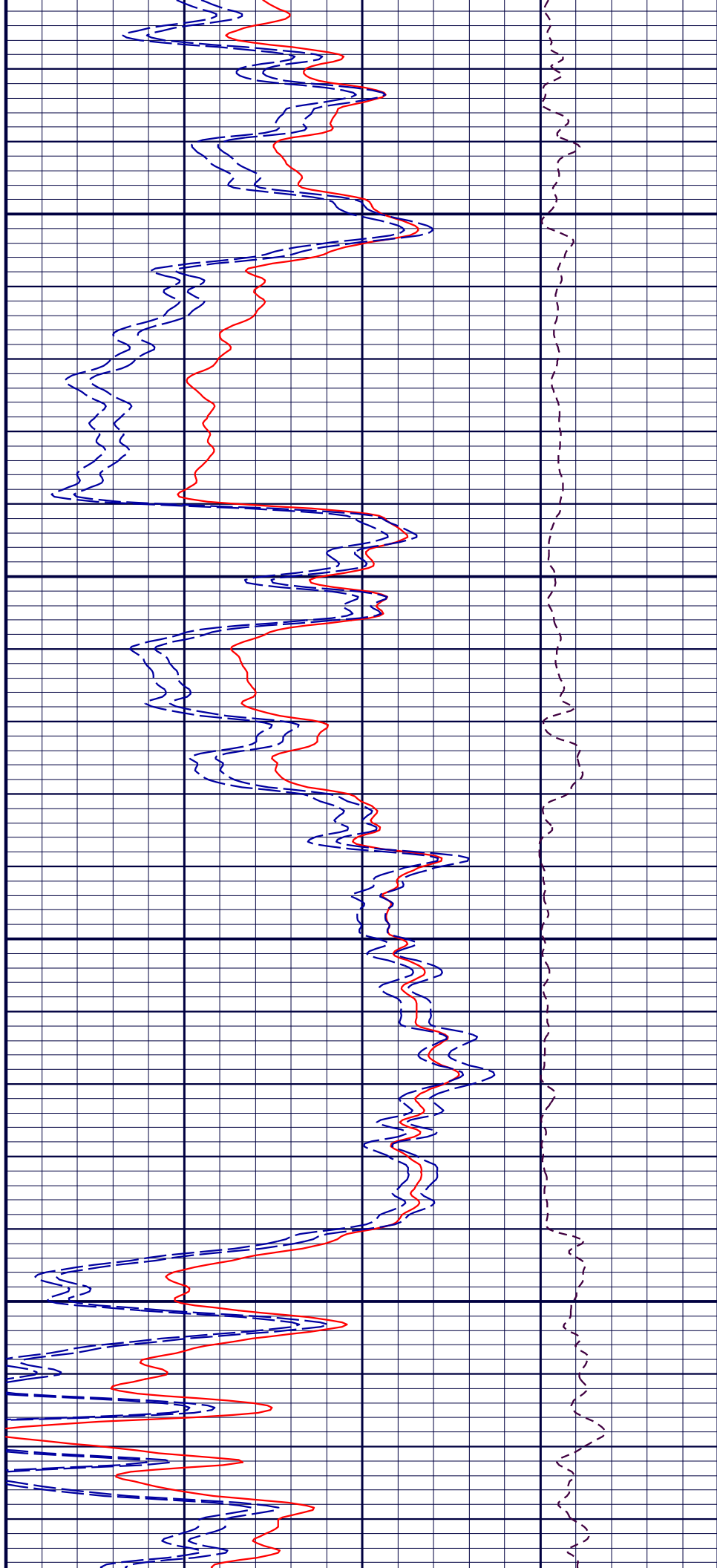


4600

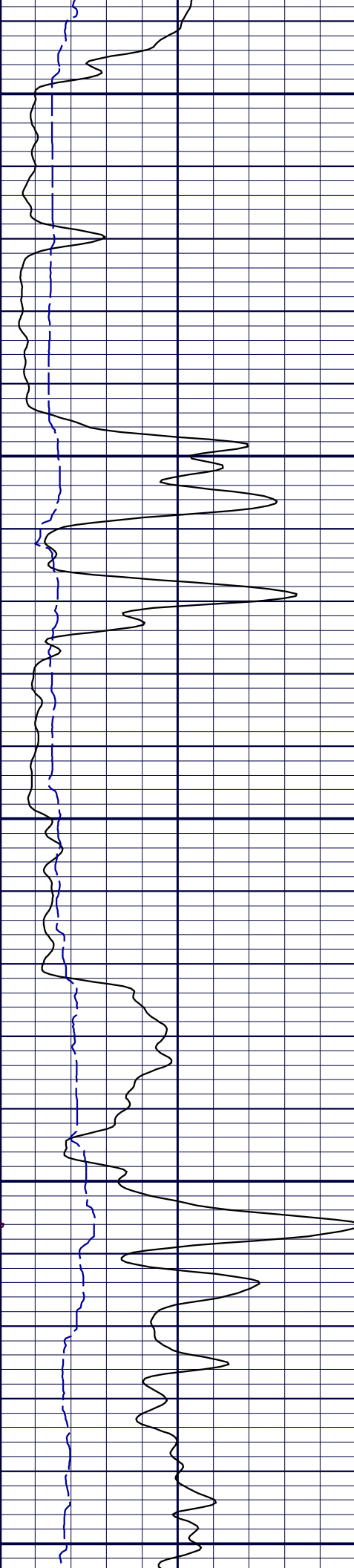
4650

4700

4750







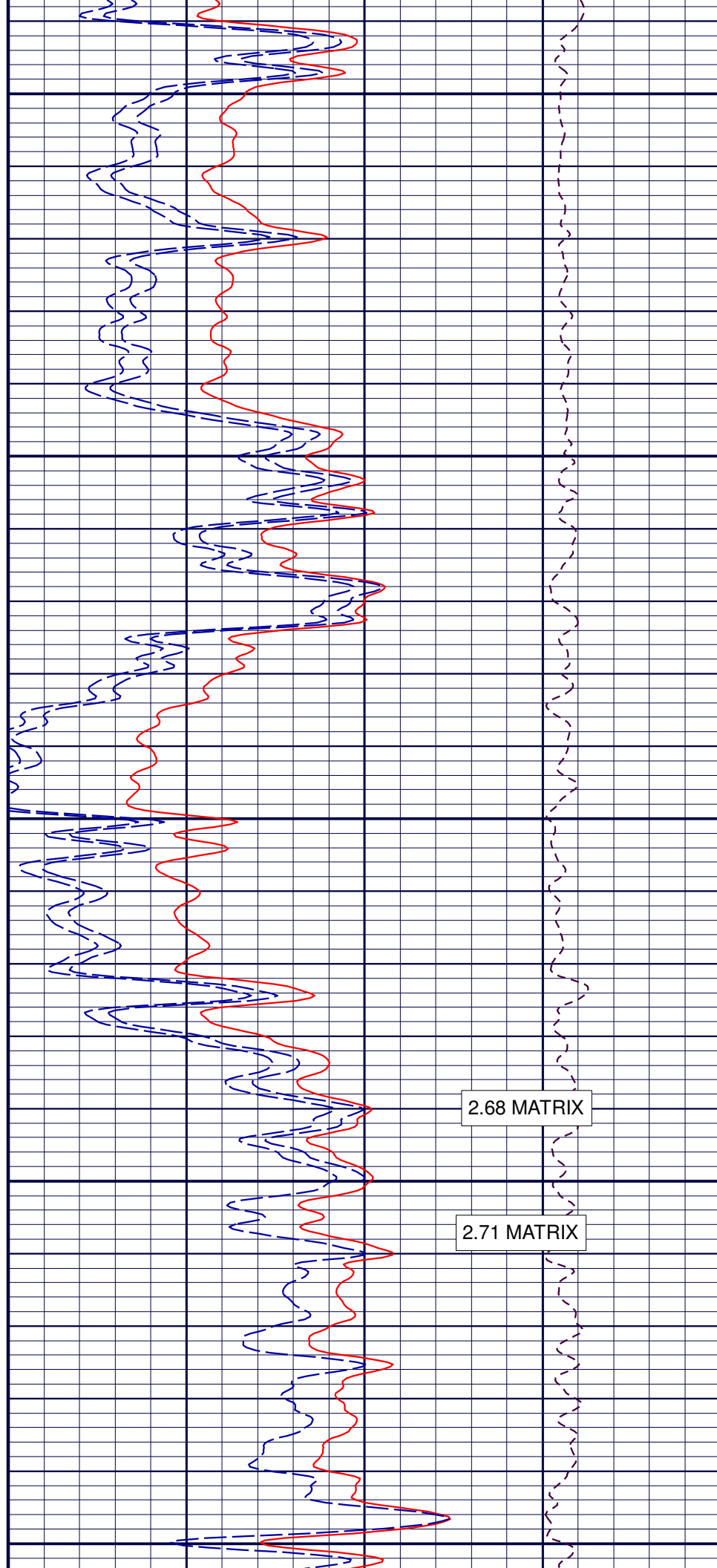
4800

4850

4900

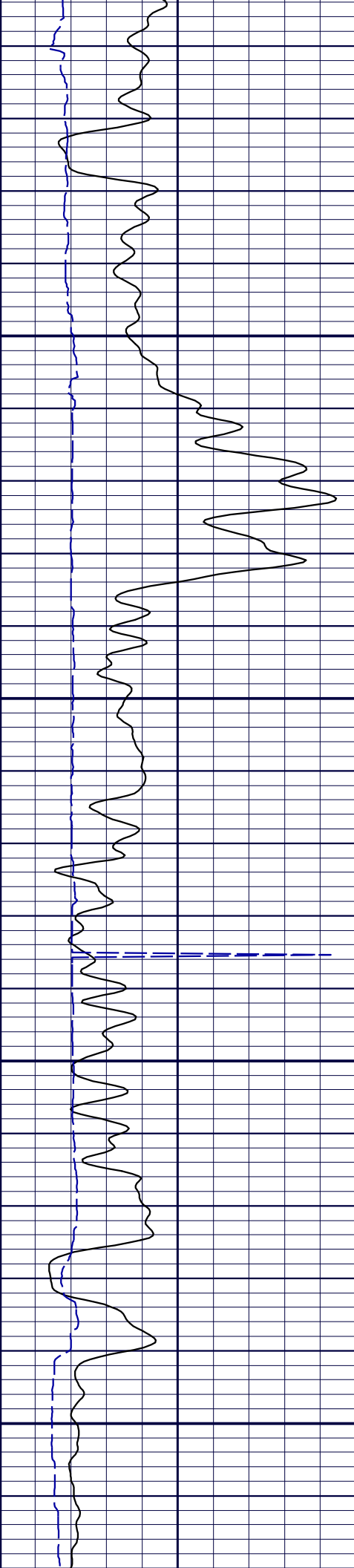
4950

5000



2.68 MATRIX

2.71 MATRIX

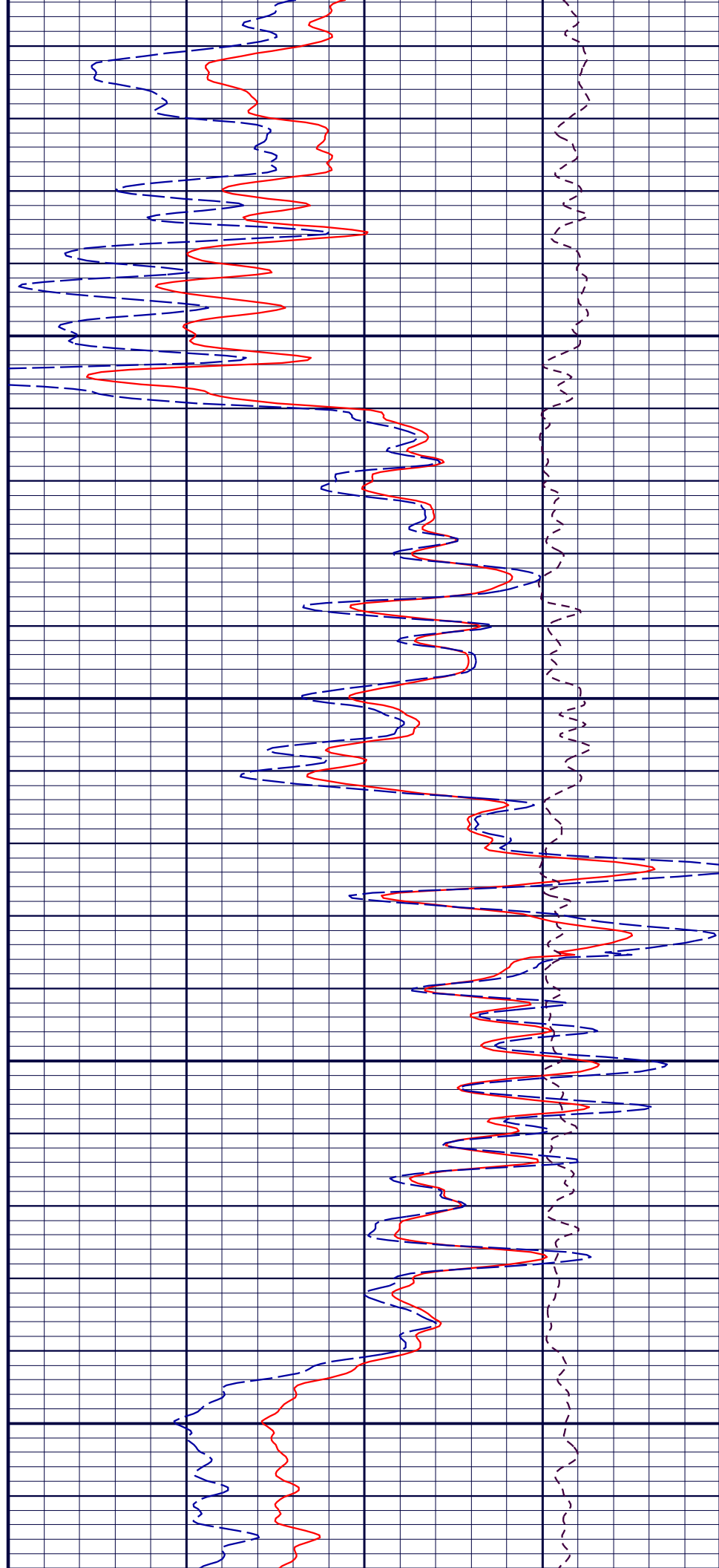


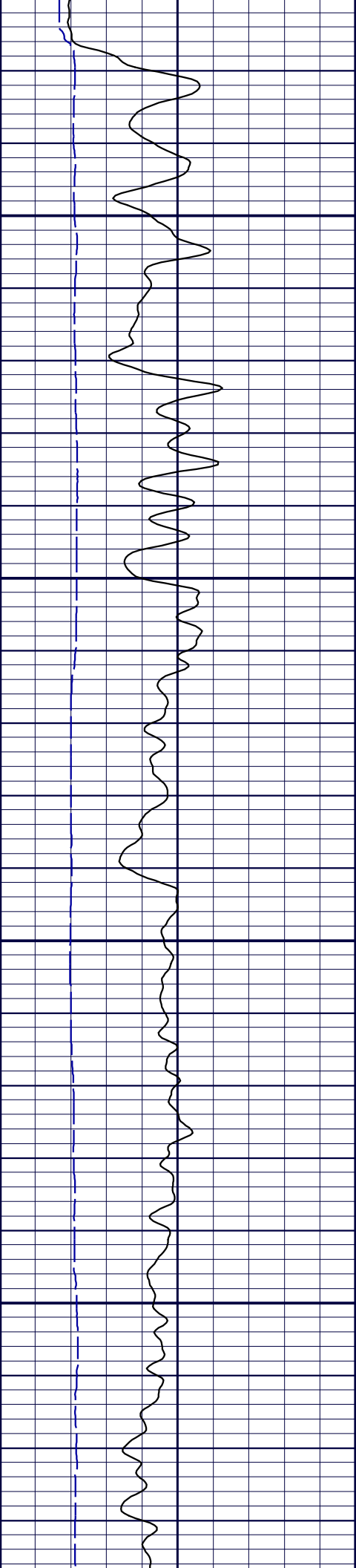
5050

5100

5150

5200



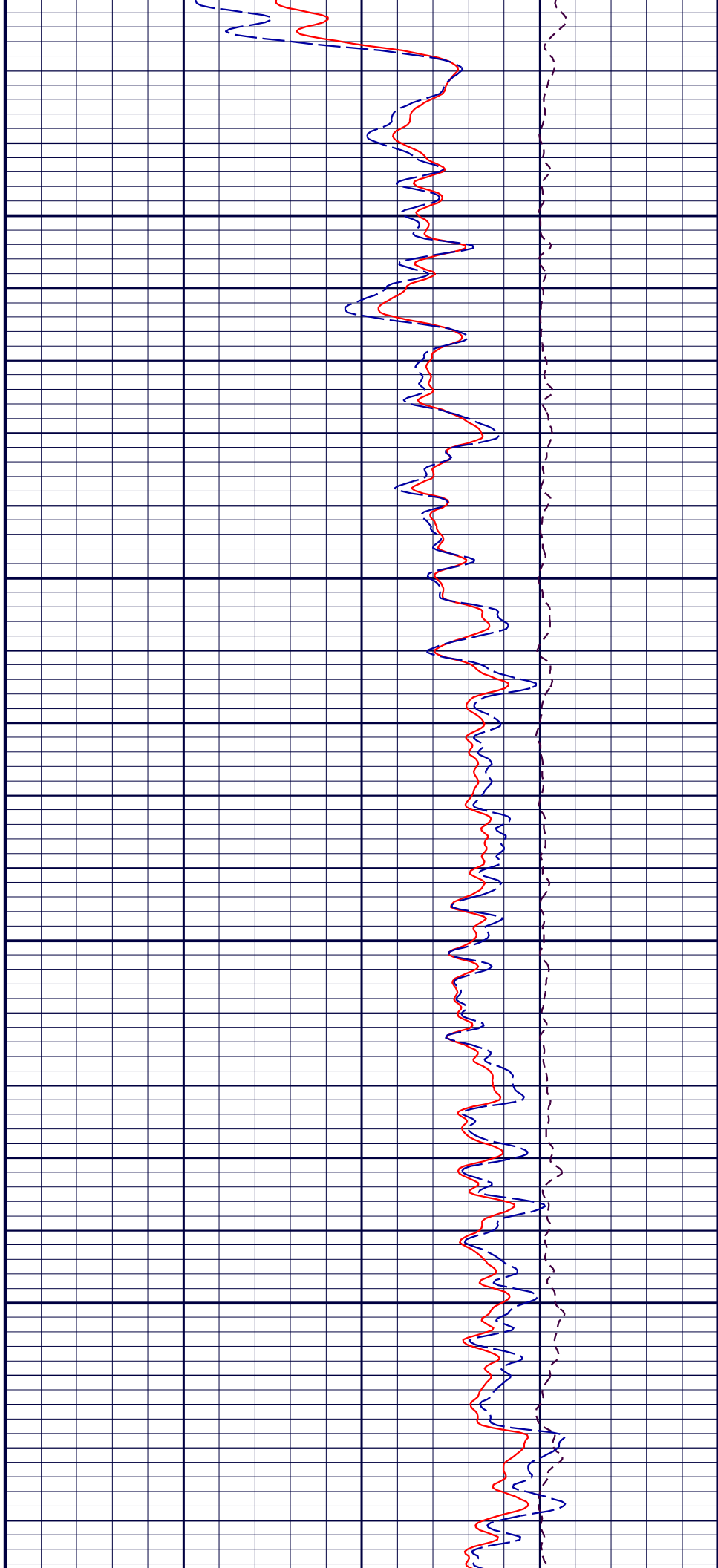


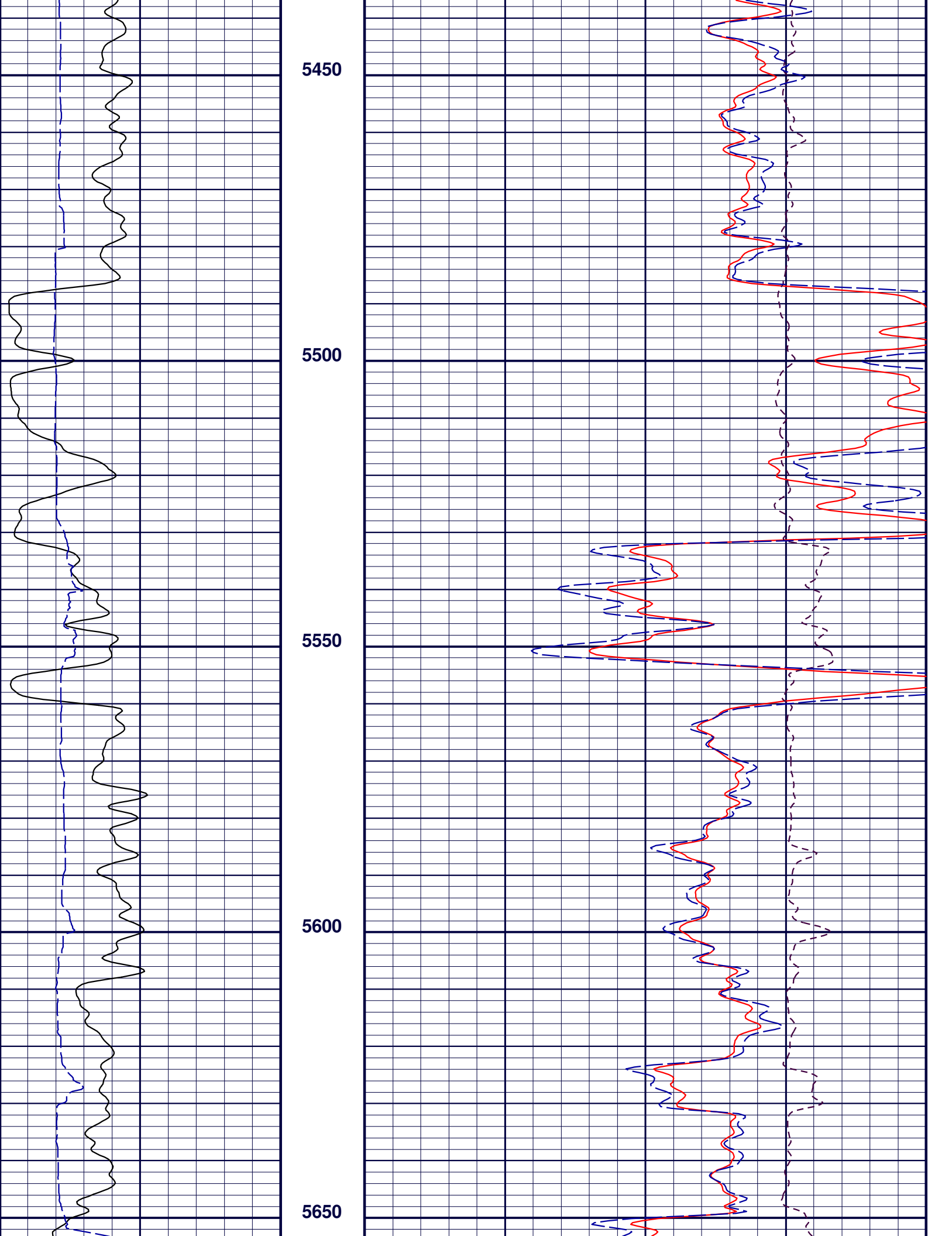
5250

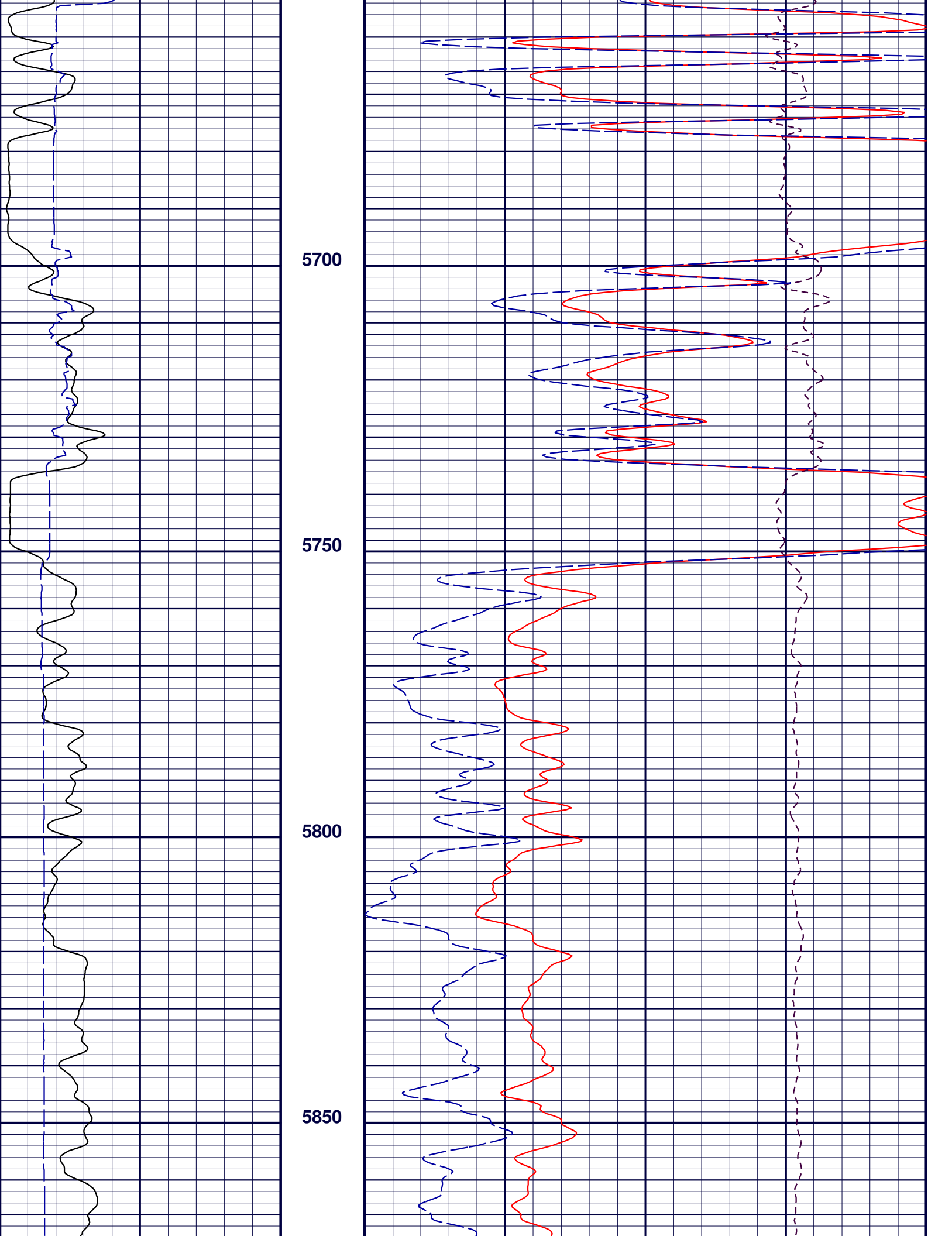
5300

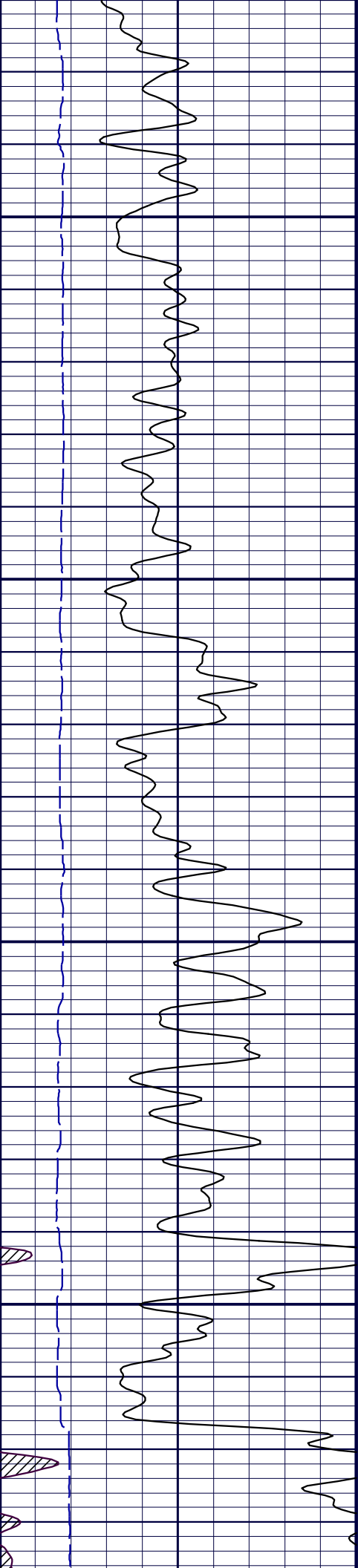
5350

5400







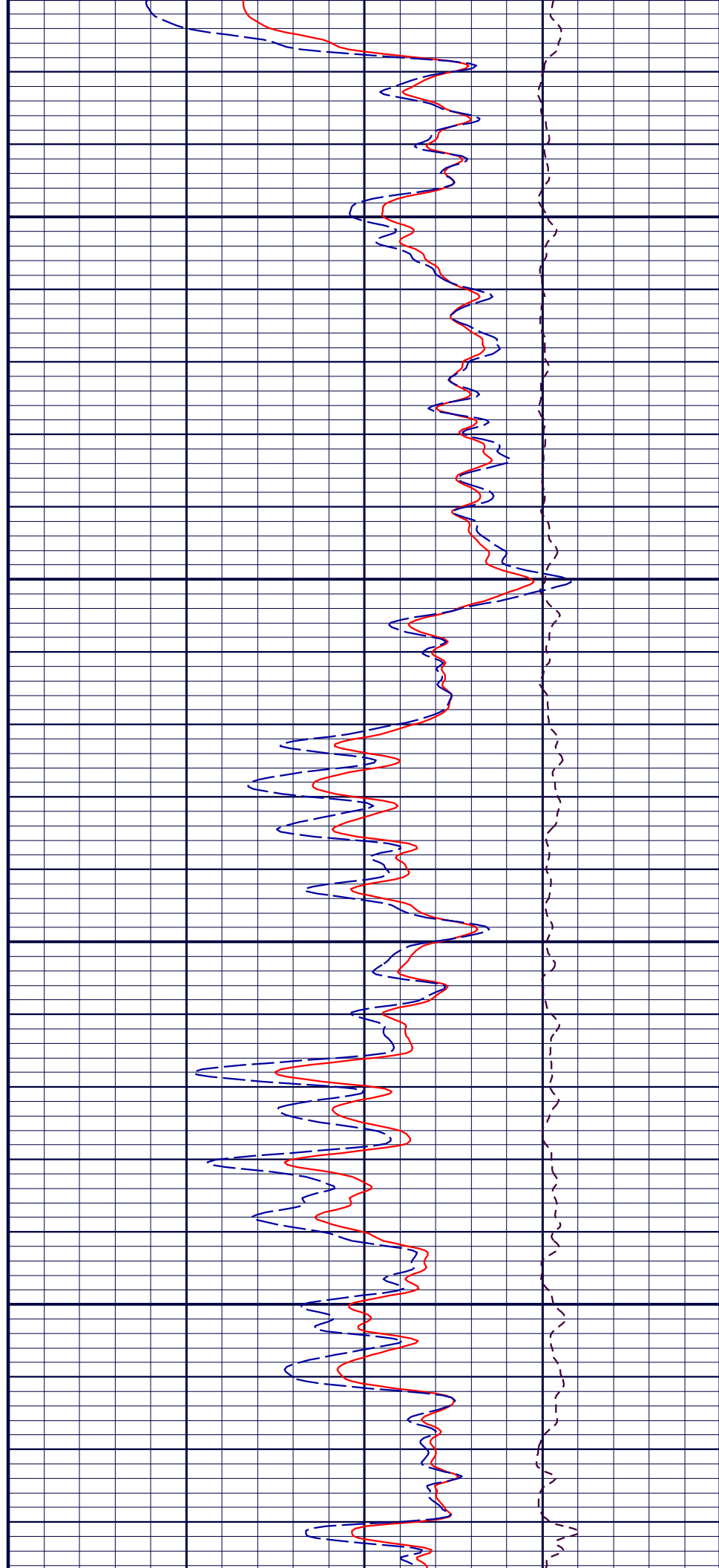


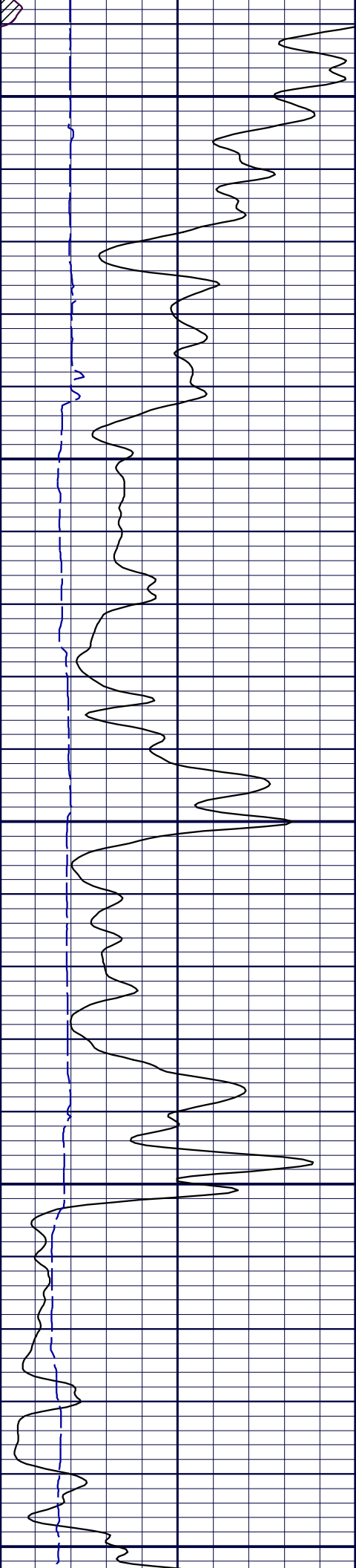
5900

5950

6000

6050





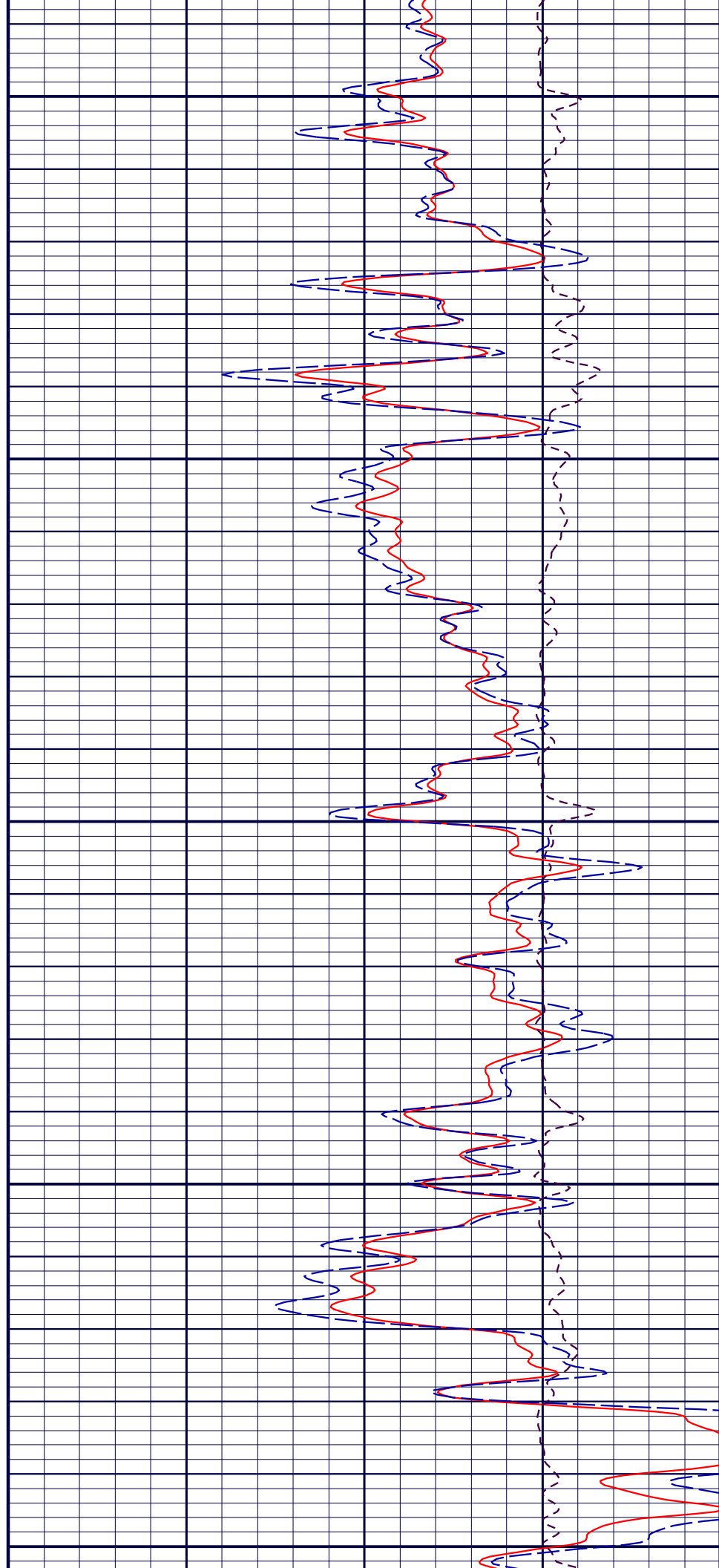
6100

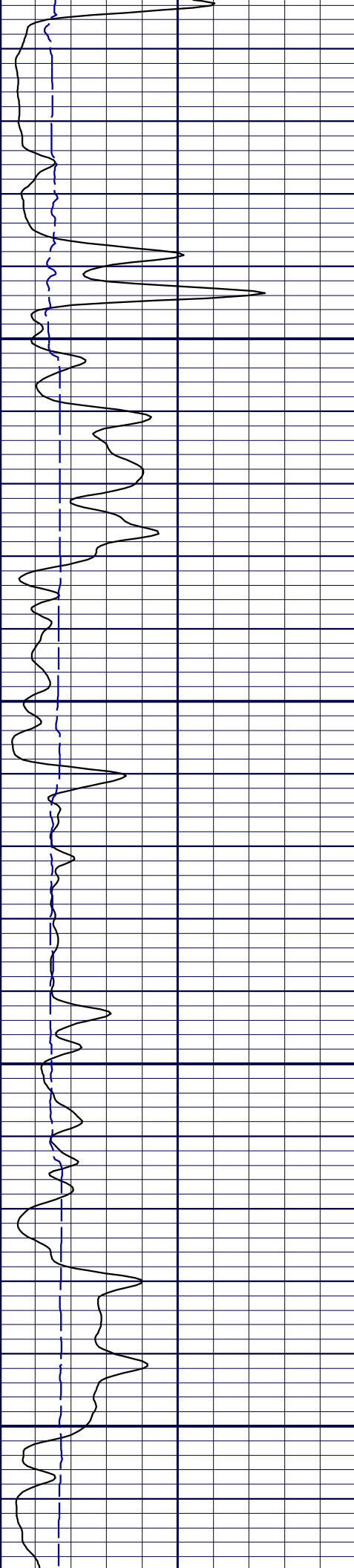
6150

6200

6250

6300



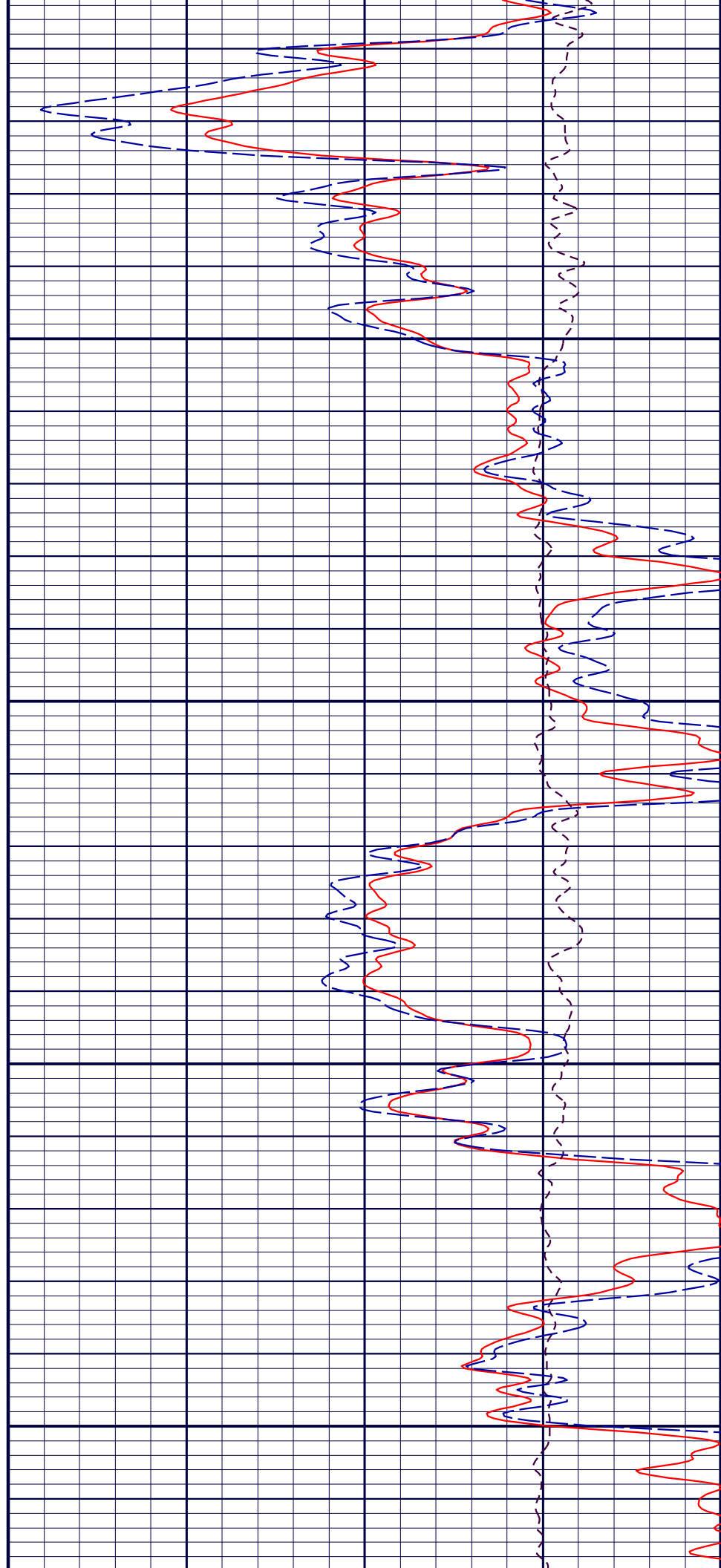


6350

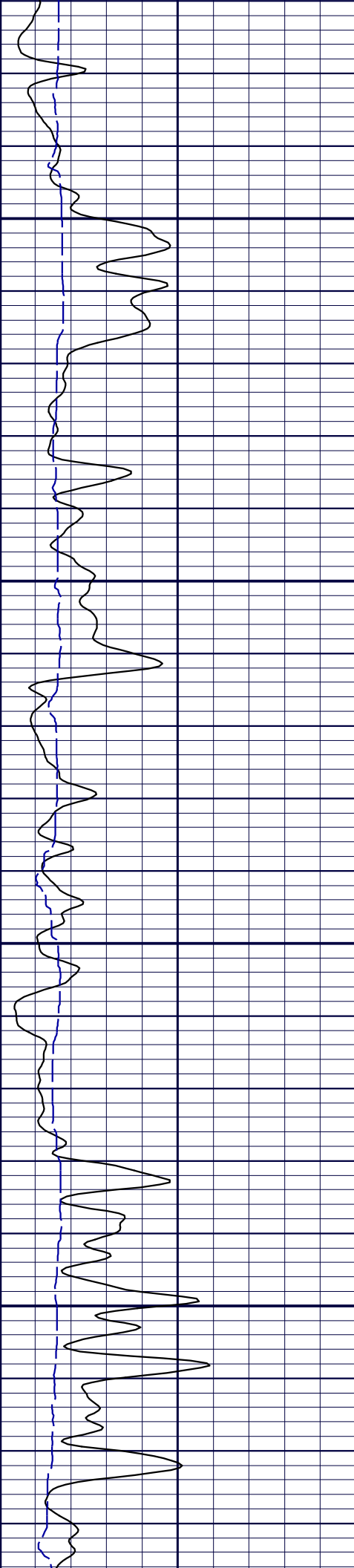
6400

6450

6500





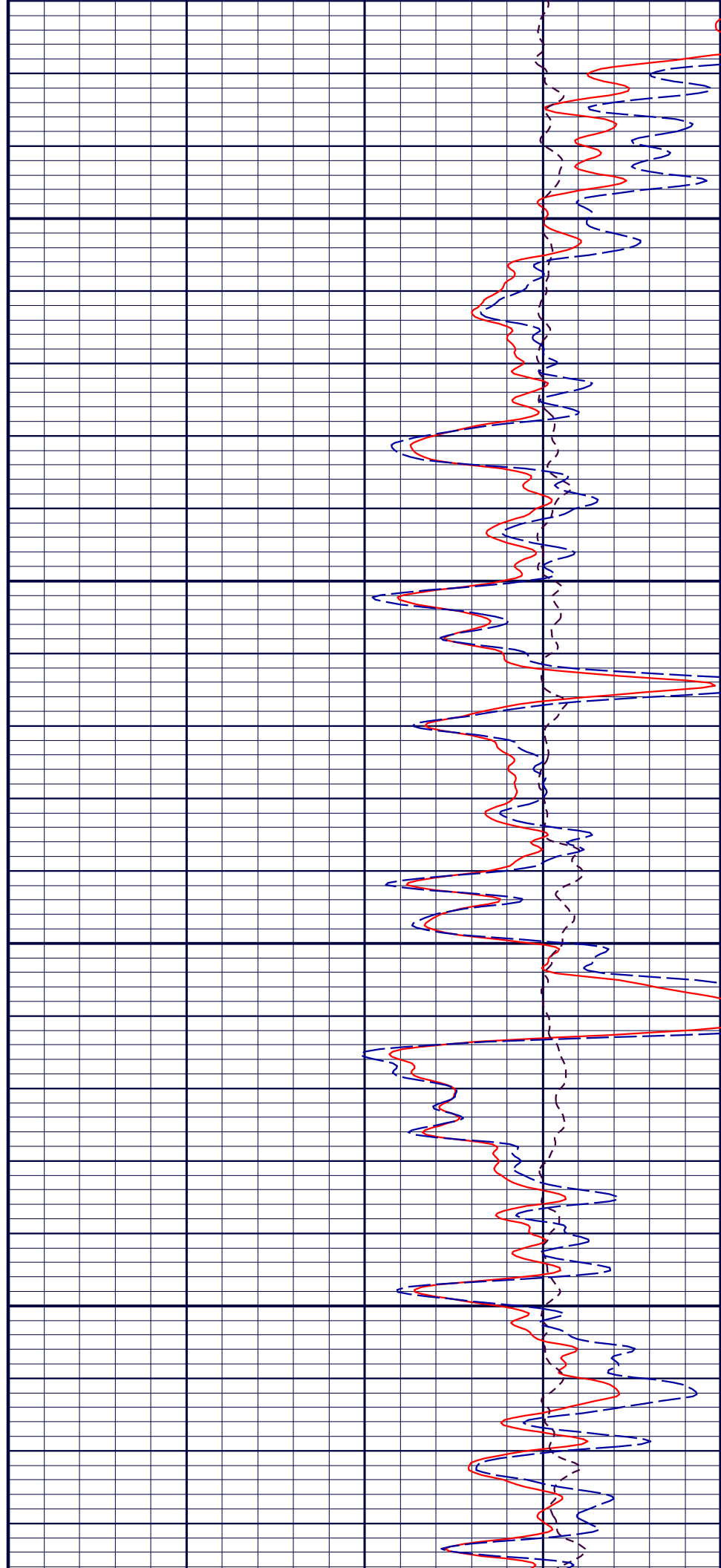


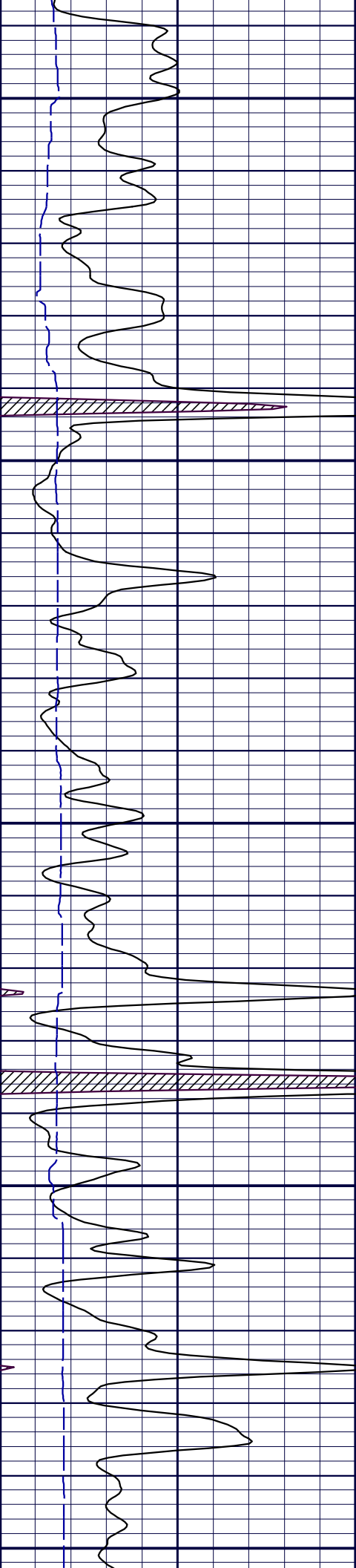
6550

6600

6650

6700





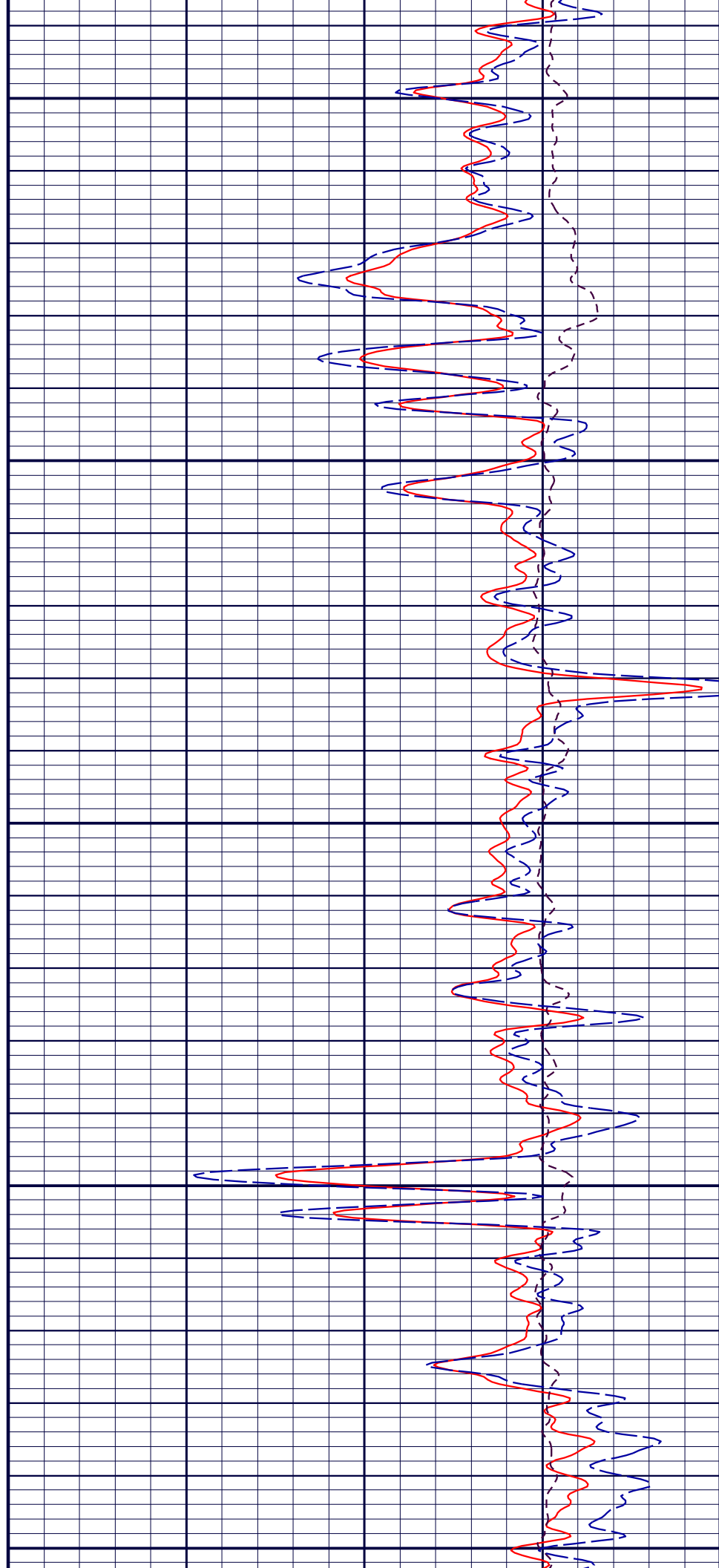
6750

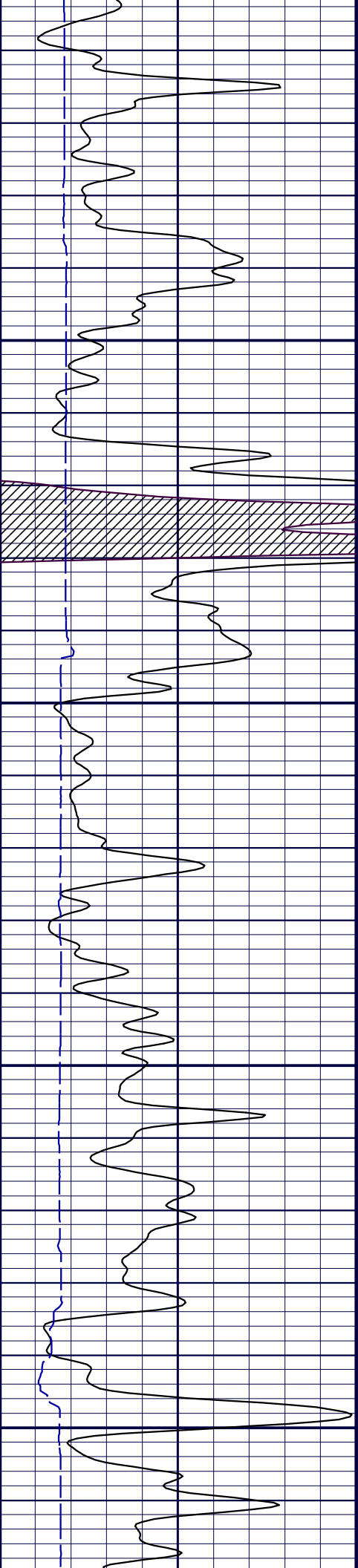
6800

6850

6900

6950



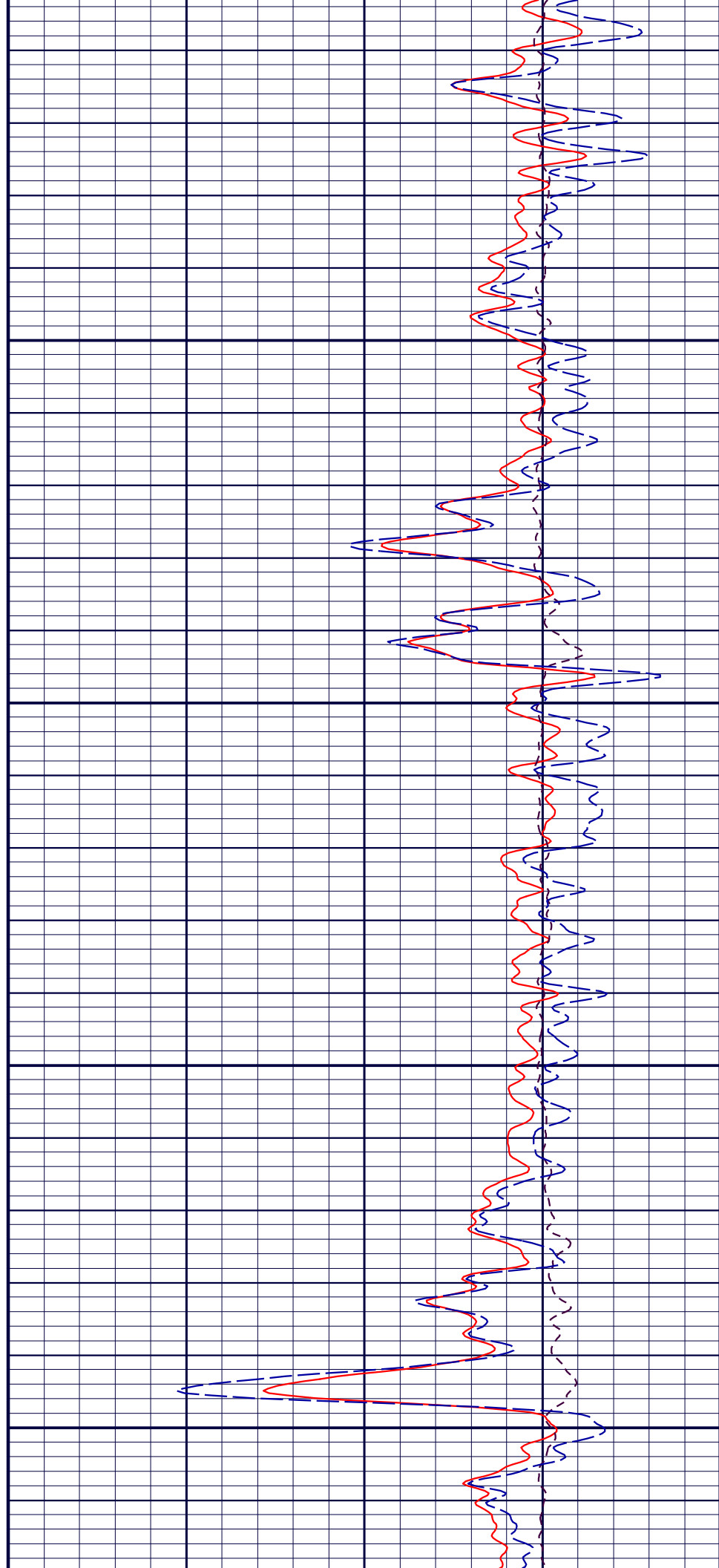


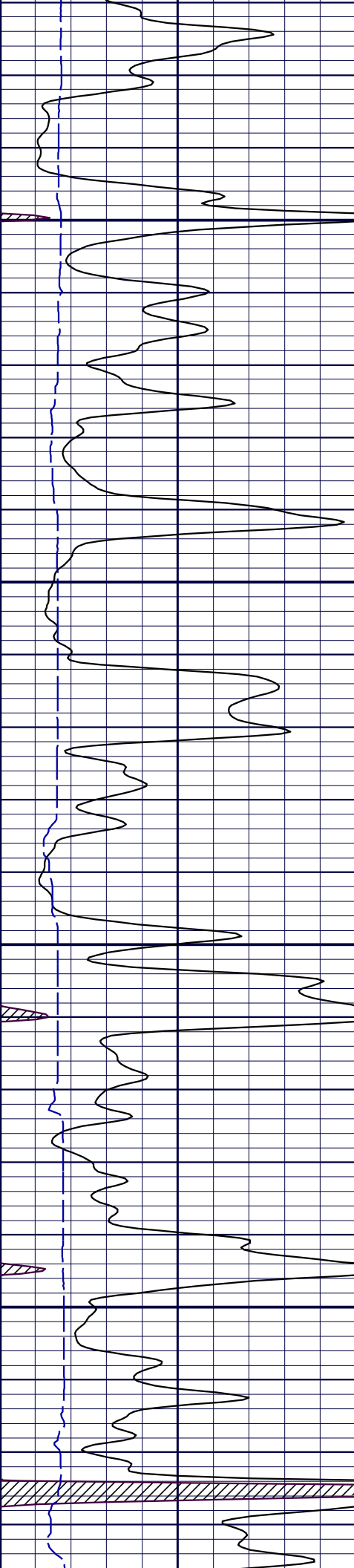
7000

7050

7100

7150



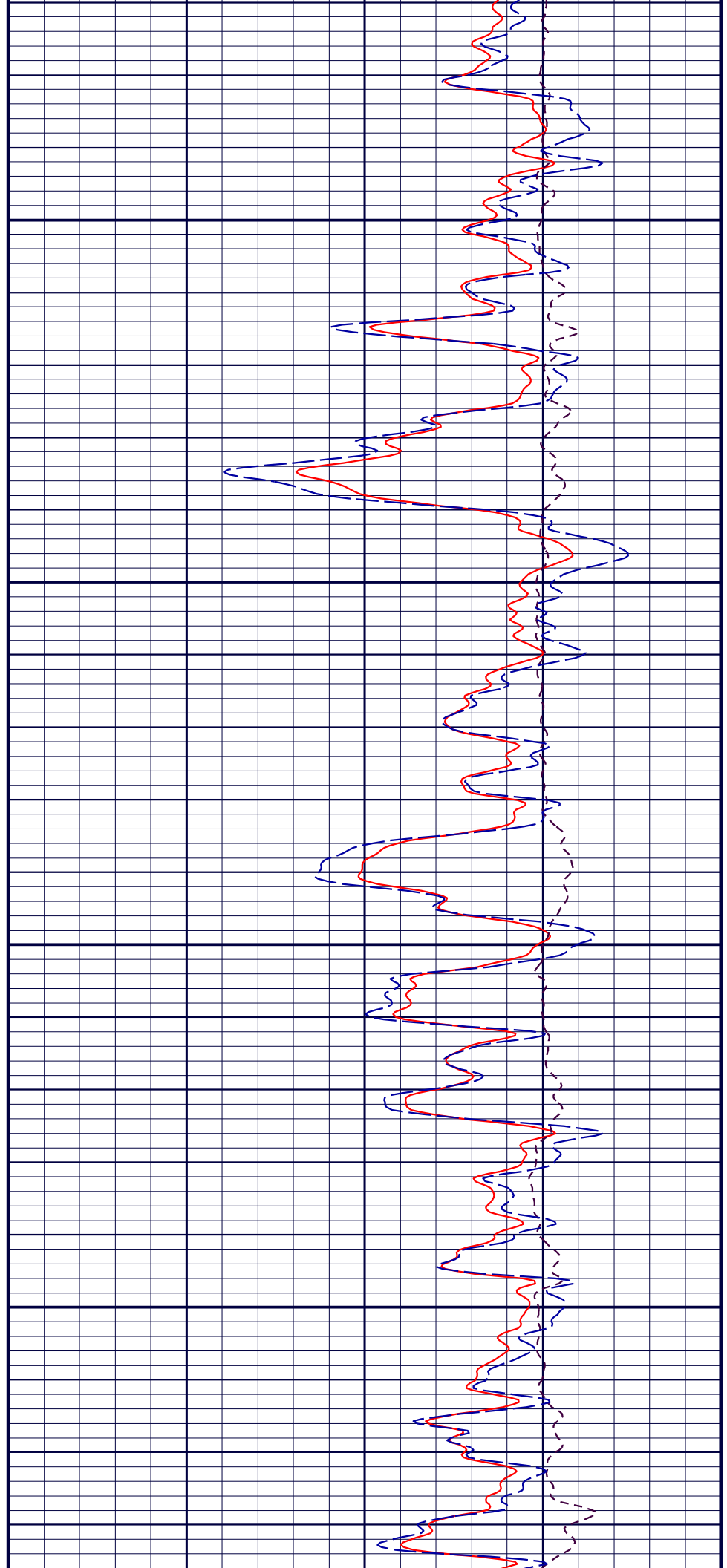


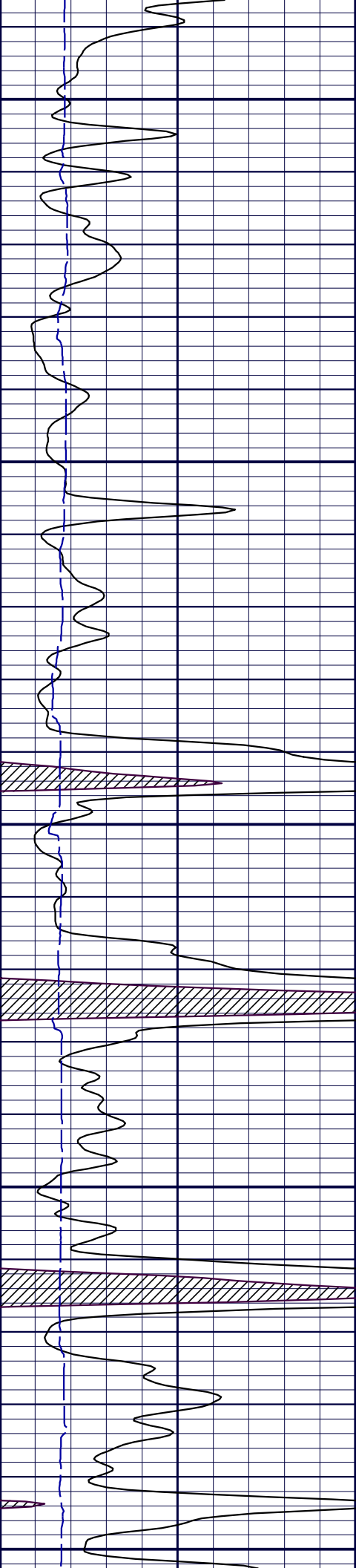
7200

7250

7300

7350





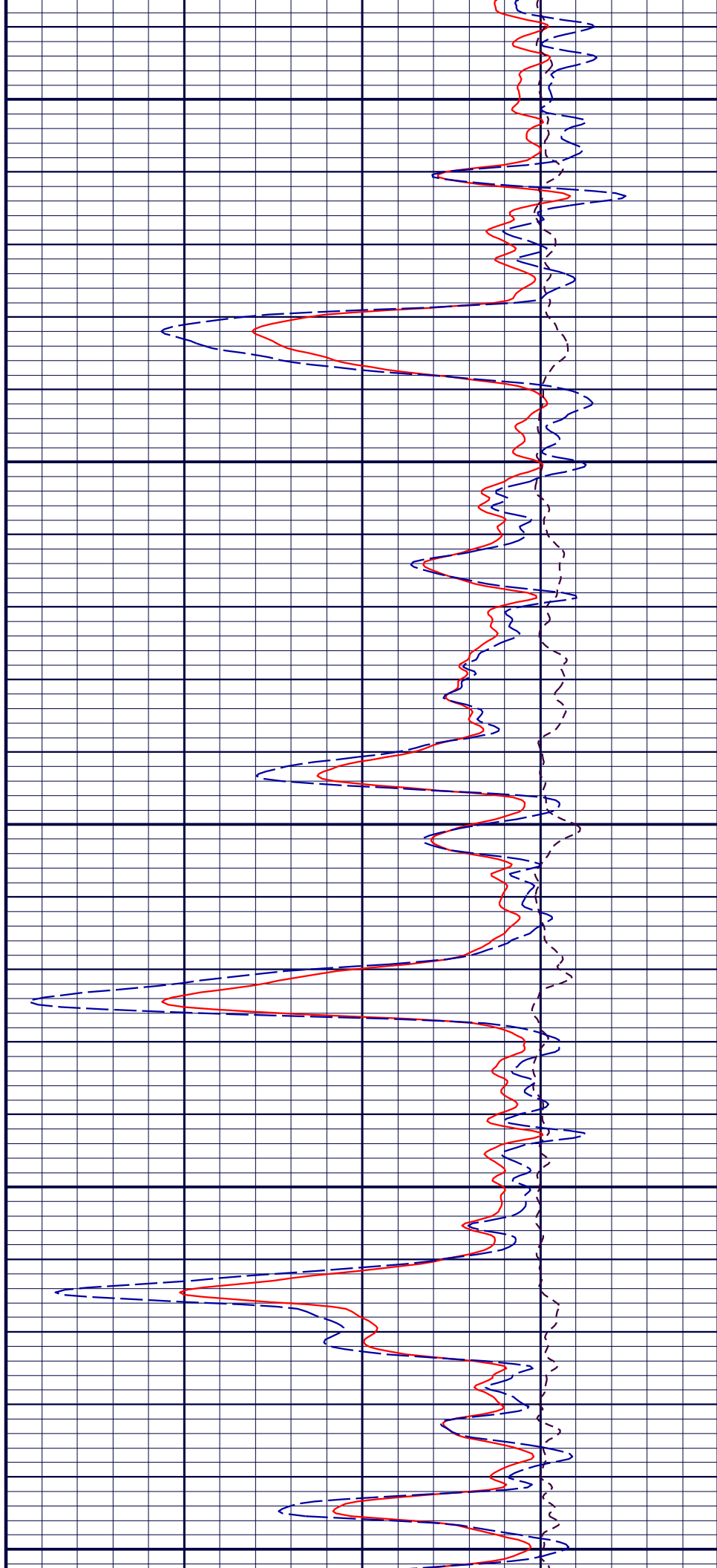
7400

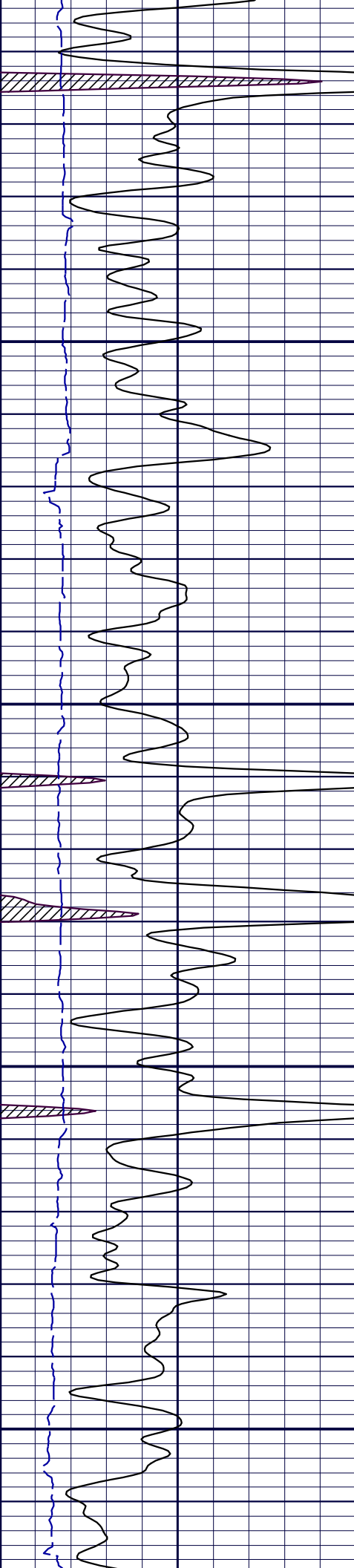
7450

7500

7550

7600



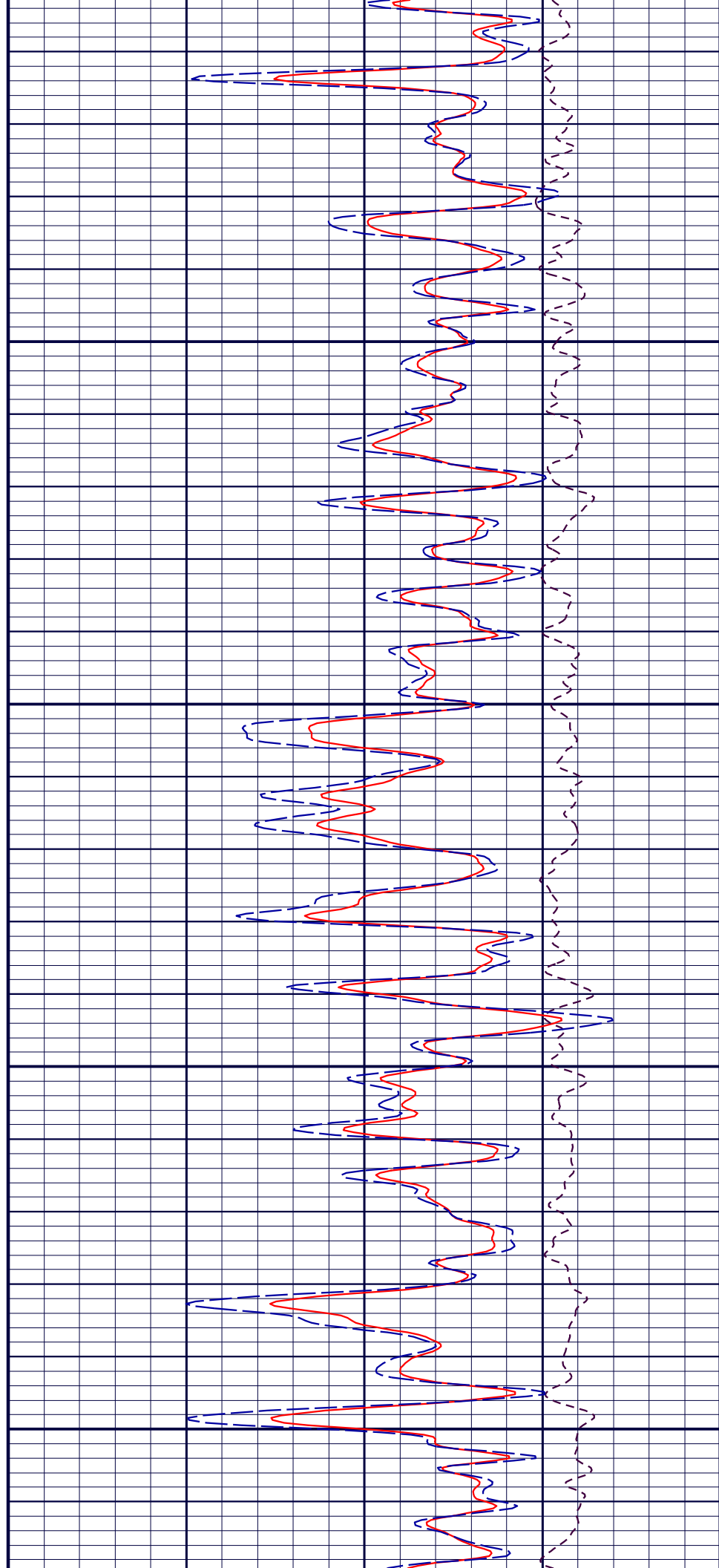


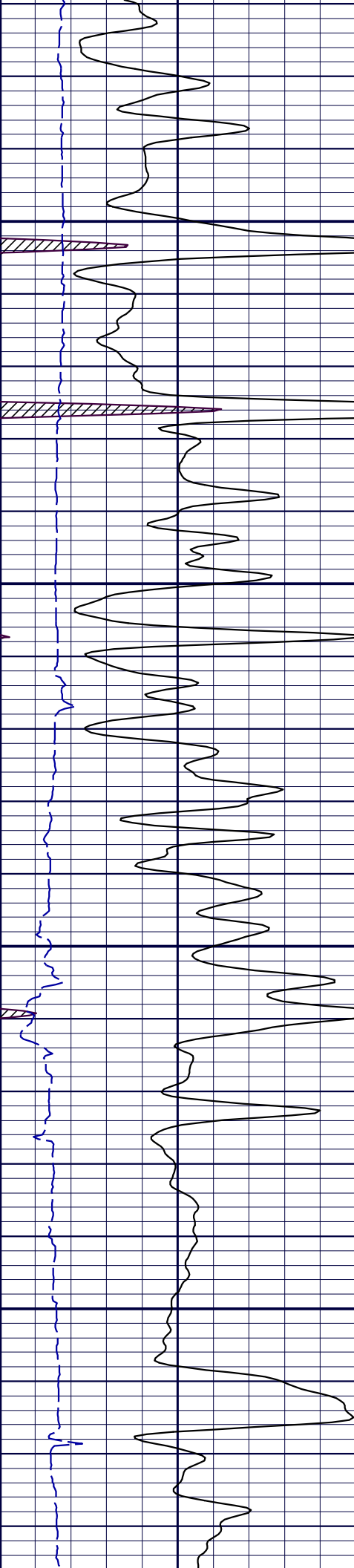
7650

7700

7750

7800



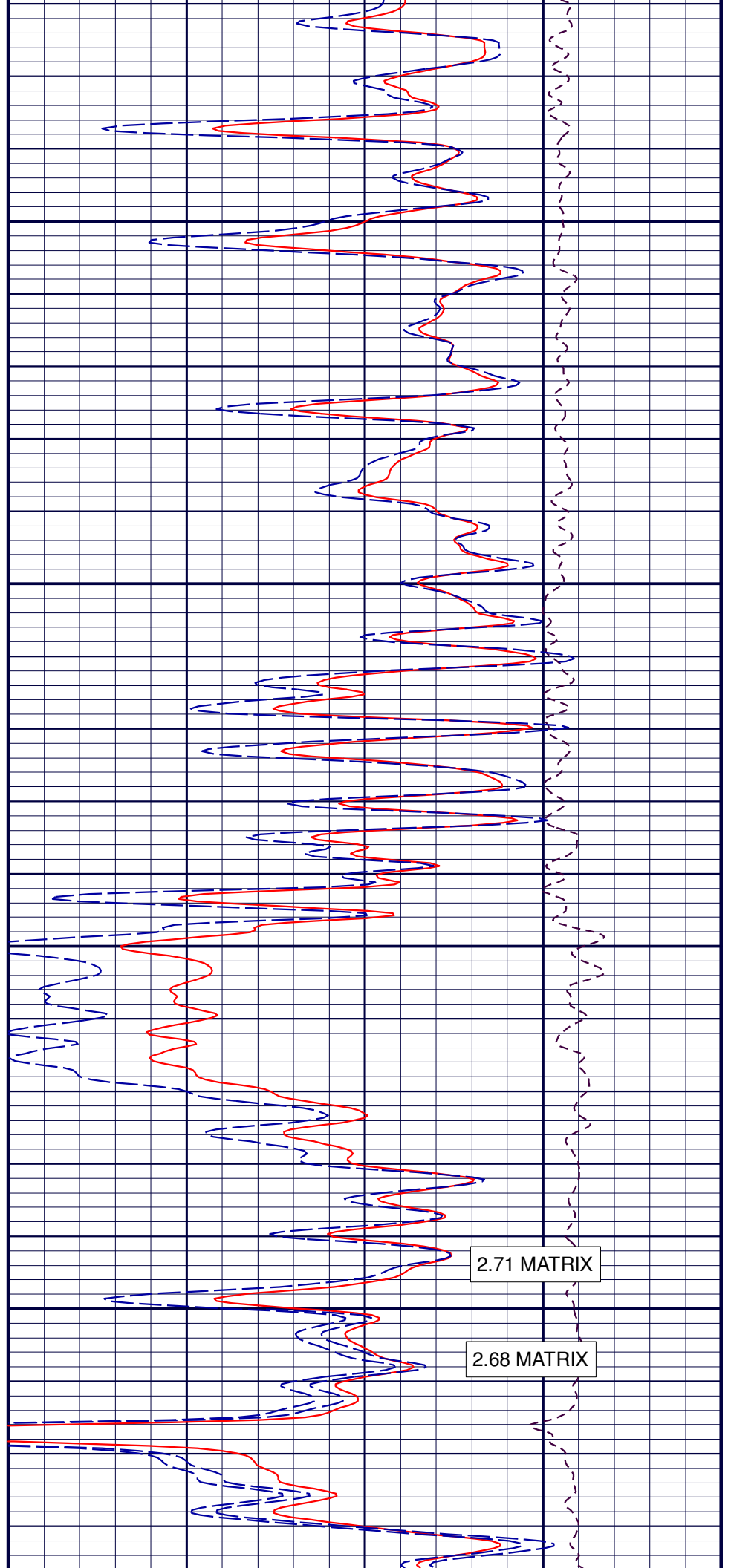


7850

7900

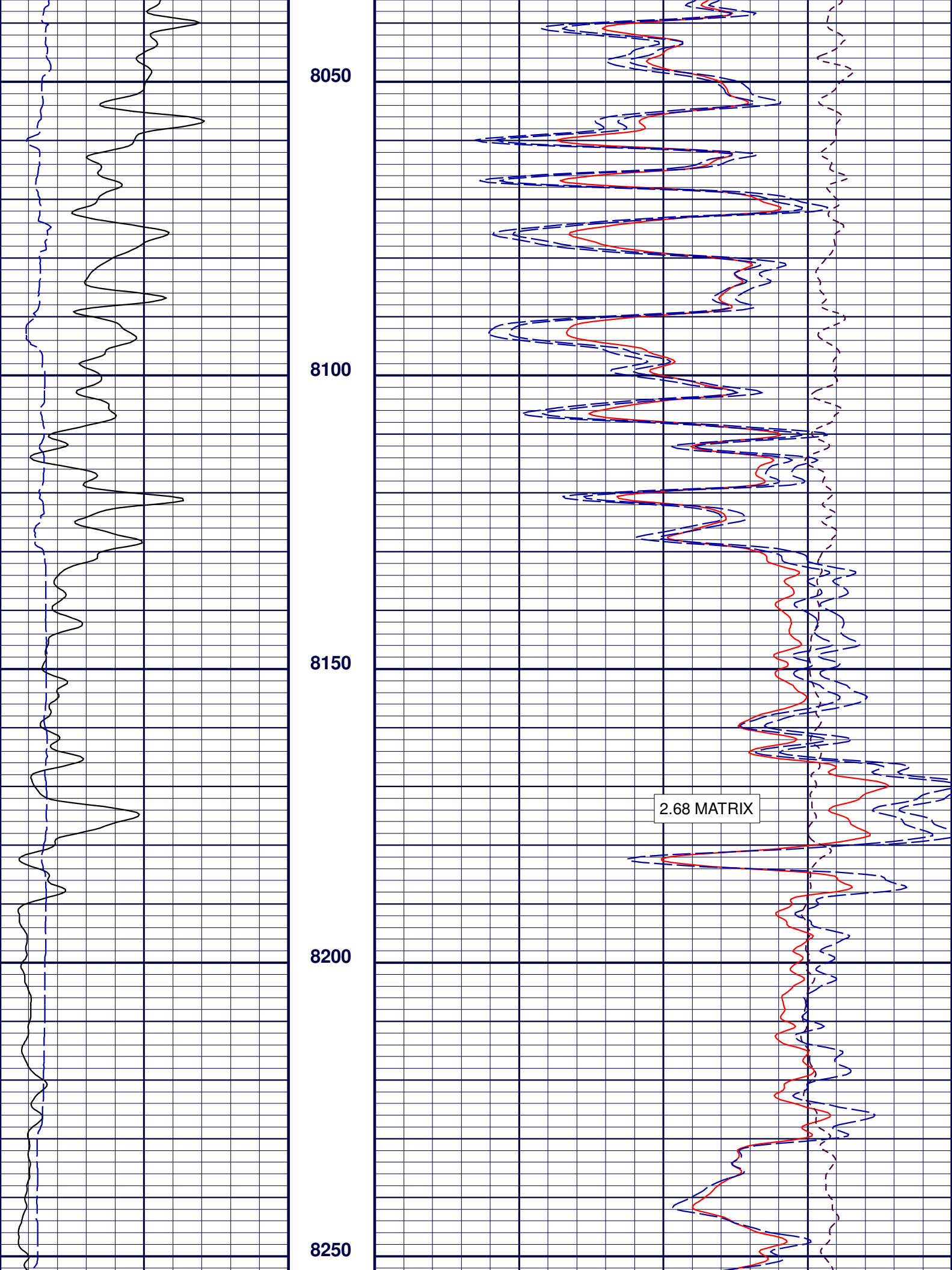
7950

8000

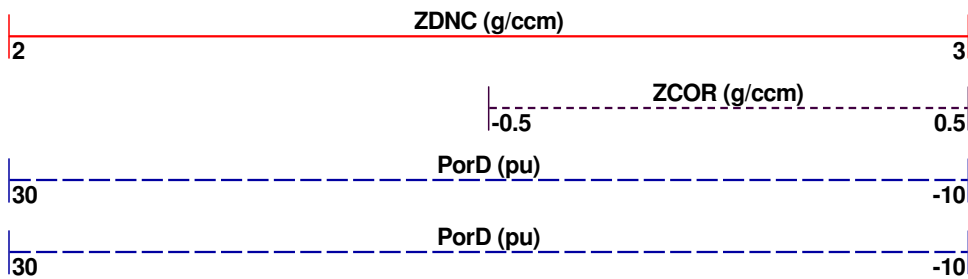
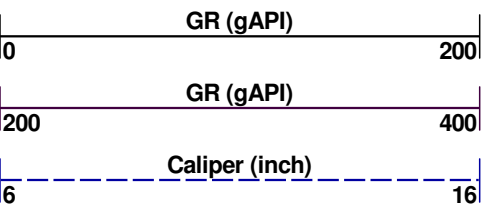
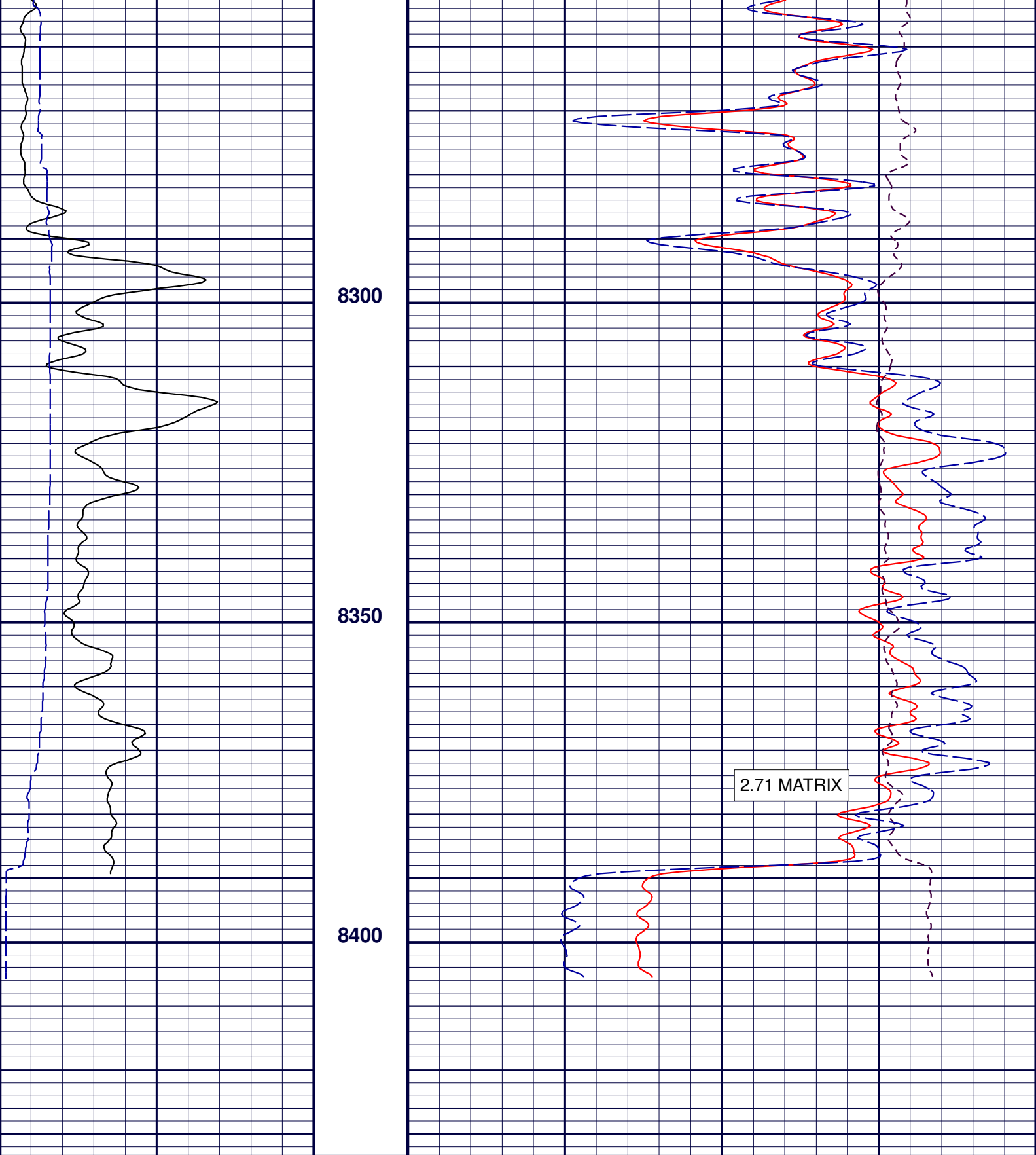


2.71 MATRIX

2.68 MATRIX







GR

File : C:\Welldata\2-014073\_Wiepking\2015183.cvf

Tool name : **Tension**Asset : **2015183**Series : **Tension**

Source ID :

**Tension****Two Point Calibration**

Time Oct / 01 / 2015 15:06:00

Setup

Description

Setup Version 00000

Curve Name	pt	Raw Value	User Value	Device
<b>Tension</b>	<b>1</b>	<b>800</b>	<b>0 N</b>	
<b>Tension</b>	<b>2</b>	<b>24375.3</b>	<b>44482 N</b>	

Mult.

Add.

**1.886805** **-1509.444**Tool name : **TCMRT**Asset : **023**Series : **1831A**

Source ID :

**Tension****Tension Calibration**

Time

Setup

Description

Setup Version 00000

Curve Name	pt	Raw Value	User Value	Device
<b>CHT</b>	<b>1</b>	<b>0 N</b>	<b>0 N</b>	
	<b>2</b>	<b>1 N</b>	<b>1 N</b>	

Mult.

Add.

**1.000000** **0.000**

File : C:\Welldata\2-014073\_Wiepking\AFC\_0930A\_024.cvf

Tool name : **Telemetry**Asset : **024**Series : **0930A**

Source ID :

**GR****Gamma Calibration**

Time Oct / 01 / 2015 14:42:52

Setup

Description Oct 1

Setup Version 00001

Block	Raw Value	User Value	Device	Device SN	Mult.
<b>Background</b>	<b>202.386</b>				
<b>Jig ON</b>	<b>731.426</b>				
<b>Gamma</b>	<b>529.04</b>	<b>149.9998 gAPI</b>			<b>0.283532</b>

Tool name : **Compensated Neutron**Asset : **014**Series : **1468A**

Source ID :

**CN****Compensated Neutron Calibration**

Time Sep / 30 / 2015 13:59:27

Setup

Description v5\_91 Sep 30

Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device
<b>Ratio</b>	<b>1</b>	<b>4.60998</b>	<b>4.94 none</b>	

Mult.

**1.071588**

File : C:\Welldata\2-014073\_Wiepking\AFC\_1486A\_014.cvf

Tool name : **PE Density Microlog**Asset : **014**Series : **1486A**

Source ID :

**Peak****ZDL Peak Calibration**

Time Oct / 01 / 2015 15:05:23

Setup

Description Oct 1

Setup Version 00001

Block	Channel	Energy (keV)	Device
<b>Am241</b>	<b>23.2892</b>	<b>59.5</b>	
<b>Cs137</b>	<b>219.801</b>	<b>661.6</b>	

	60-100 keV	100-140 keV	140-200 keV	200-540 keV
<b>Background</b>	<b>184.155</b>	<b>239.544</b>	<b>458.148</b>	<b>1327.69</b>

Tool name : **PE Density Microlog**Asset : **014**Series : **1486A**

Source ID :

**PeDen****PeDen Calibration**

Time Oct / 01 / 2015 15:05:08

Setup

Description Oct 1

Setup Version 00001

	Raw Values			Device Values		
	SSD	LSD	SHR	DEN	CORR	PE
<b>MG</b>	17529.8 cps	11771.1 cps	0.712 0.700 0.900	1.649 g/ccm	0.000 g/ccm	2.14 b/e
<b>AL</b>	9297.7 cps	1604.7 cps		2.550 g/ccm	0.000 g/ccm	
<b>AL + Mg Shim</b>	12528.0 cps	2557.4 cps		2.488 g/ccm	0.120 g/ccm	
<b>MG + St Shim</b>		5377.8 cps	0.278 0.250 0.320			10.31 b/e
<b>Ratio MG/AL</b>	1.89 none 1.50 2.00	7.34 none 6.80 8.50				
<b>Spine Angle</b>	72.3 deg 72.0 75.0		<b>Rib Angle</b>	52.3 deg 52.0 55.0		

Tool name : **PE Density Microlog**Asset : **014**Series : **1486A**

Source ID :

**RNML**

**Resistivity Calibration**

Time Oct / 01 / 2015 15:04:56

Setup

Description Oct 1

Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
<b>RNML</b>	<b>1</b>	<b>-0.00171871</b>	<b>0 Ohmm</b>		<b>1.515284</b>	<b>0.003</b>
	<b>2</b>	<b>88.6945</b>	<b>134.4 Ohmm</b>			

Tool name : **PE Density Microlog**Asset : **014**Series : **1486A**

Source ID :

**RLML****Resistivity Calibration**

Time Oct / 01 / 2015 15:03:44

Setup

Description Oct 1

Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
<b>RLML</b>	<b>1</b>	<b>0.0149555</b>	<b>1 Ohmm</b>		<b>0.893583</b>	<b>0.987</b>
	<b>2</b>	<b>186.903</b>	<b>168 Ohmm</b>			

Tool name : **PE Density Microlog**Asset : **014**Series : **1486A**

Source ID :

**Caliper****Caliper Calibration**

Time Oct / 01 / 2015 15:03:25

Setup

Description Oct 1

Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
<b>Caliper</b>	<b>1</b>	<b>6.42783</b>	<b>6 inch</b>		<b>0.802319</b>	<b>0.843</b>
	<b>2</b>	<b>18.8917</b>	<b>16 inch</b>			

File : C:\Welldata\2-014073\_Wiepking\AFC\_1141A\_014.cvf

Tool name : **DIL**Asset : **014**Series : **1141A**

Source ID :

**Deep****Conductivity Calibration**

Time Jun / 18 / 2015 08:24:03

Setup

Description shop\_Jun17 el13 ma 14

Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
<b>CILDRaw</b>	<b>1</b>	<b>-10.7427 mV</b>	<b>0 mS/m</b>		<b>0.853959</b>	<b>9.174</b>
	<b>2</b>	<b>458.835 mV</b>	<b>401 mS/m</b>			

Tool name : **DIL**Asset : **014**Series : **1141A**

Source ID :

**Array Calibration**

Time

Setup

Description

Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
01:	<b>0</b>										

Tool name : **DIL**Asset : **014**Series : **1141A**

Source ID :

**CLL8****Conductivity Calibration**

Time

Jun / 18 / 2015 09:06:57

Setup

Description

June 18

Setup Version

00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
<b>CLL8</b>	<b>1</b>	<b>452.739 mV</b>	<b>500 mmho</b>		<b>1.081944</b>	<b>10.162</b>
	<b>2</b>	<b>-8.46803 mV</b>	<b>1 mmho</b>			

Tool name : **DIL**Asset : **014**Series : **1141A**

Source ID :

**Medium****Conductivity Calibration**

Time

Jun / 18 / 2015 08:26:29

Setup

Description

shop Jun 1813 el 14 ma

Setup Version

00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
<b>CILMRaw</b>	<b>1</b>	<b>-7.40395 mV</b>	<b>0 mS/m</b>		<b>0.983947</b>	<b>7.285</b>
	<b>2</b>	<b>460.101 mV</b>	<b>460 mS/m</b>			

Tool name : **DIL**Asset : **014**Series : **1141A**

Source ID :

**GwM****Array Calibration**

Time

Setup

Description

Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
01:	<b>0</b>										

**PIONEER**

COMPANY: WIEPKING-FULLERTON LLC  
 WELL: CONQUEST No.14  
 FIELD: WILDCAT  
 COUNTY: USA  
 STATE: CO.

