



Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY			UNIT PETROLEUM COMPANY		
WELL			JAMES #1-2		
FIELD			WILDCAT		
PROVINCE/COUNTY			LINCOLN		
COUNTRY/STATE			USA / COLORADO		
LOCATION			1980' FNL & 1980' FWL SE-NW		
SEC 2	TWP 15S	RGE 55W	Other Services		
Latitude	38.772690		Elevations: KB 5138.00 DF 5136.00 GL 5123.00		
Longitude	-103.527090				
API Number	05-073-06713				
Permanent Datum GL, Elevation 5123 feet					
Log Measured From KB					
Drilling Measured From KB					
Date	07-DEC-2015				
Run Number	ONE				
Service Order	7055-137049030				
Depth Driller	7635.00		feet		
Depth Logger	7629.00		feet		
First Reading	---				
Last Reading	---				
Casing Driller	490.00		feet		
Casing Logger	488.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	WBM				
Density / Viscosity	9.40	lb/USg	55.00	sec/qt	
PH / Fluid Loss	8.60		5.20	ml/30Min	
Sample Source	MUD TANK				
Rm @ Measured Temp	1.92 @ 56.0		ohm-m		
Rmf @ Measured Temp	1.536 @ 56.0		ohm-m		
Rmc @ Measured Temp	2.304 @ 56.0		ohm-m		
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.62 @181.0		ohm-m		
Time Since Circulation	4 HOURS				
Max Recorded Temp	181.00		deg F		
Equipment / Base	14343		OKC		
Recorded By	JUSTIN HICKS				
Witnessed By	RICH BACON		LARRY MILLER		

BOREHOLE RECORD

Last Edited: 12-DEC-2015 04:56

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	490.00
7.875	490.00	7635.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	490.00	32.00

REMARKS

TOOLS RAN:
RUN 1: CBH, MTA, SHA, MCG, MDN, MPD, MFE, MAI.
RUN 2: CBH, MTA, SHA, MCG, MBN, MDM, MRD, MTD.

HARDWARE USED:
MAI: TWO 0.5 INCH STANDOFFS.
MFE: ONE 0.5 INCH STANDOFF.
MDN: DUAL NEUTRON BOWSPRING.
MPD: 8 INCH PROFILE PLATE.
MDM: ONE CENTRALIZER.
MRD: FOUR 0.5 INCH STANDOFFS.
MTD: THREE 0.5 INCH STANDOFFS AND ONE CENTRALIZER.

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = XXXX CUB FT

STRAIGHT HOLE VOLUME FROM TD TO SURFACE CASING = XXXX CU.FT.
ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING = XXXX CU.FT.

FIELD TICKET NUMBER: 7055-137049030

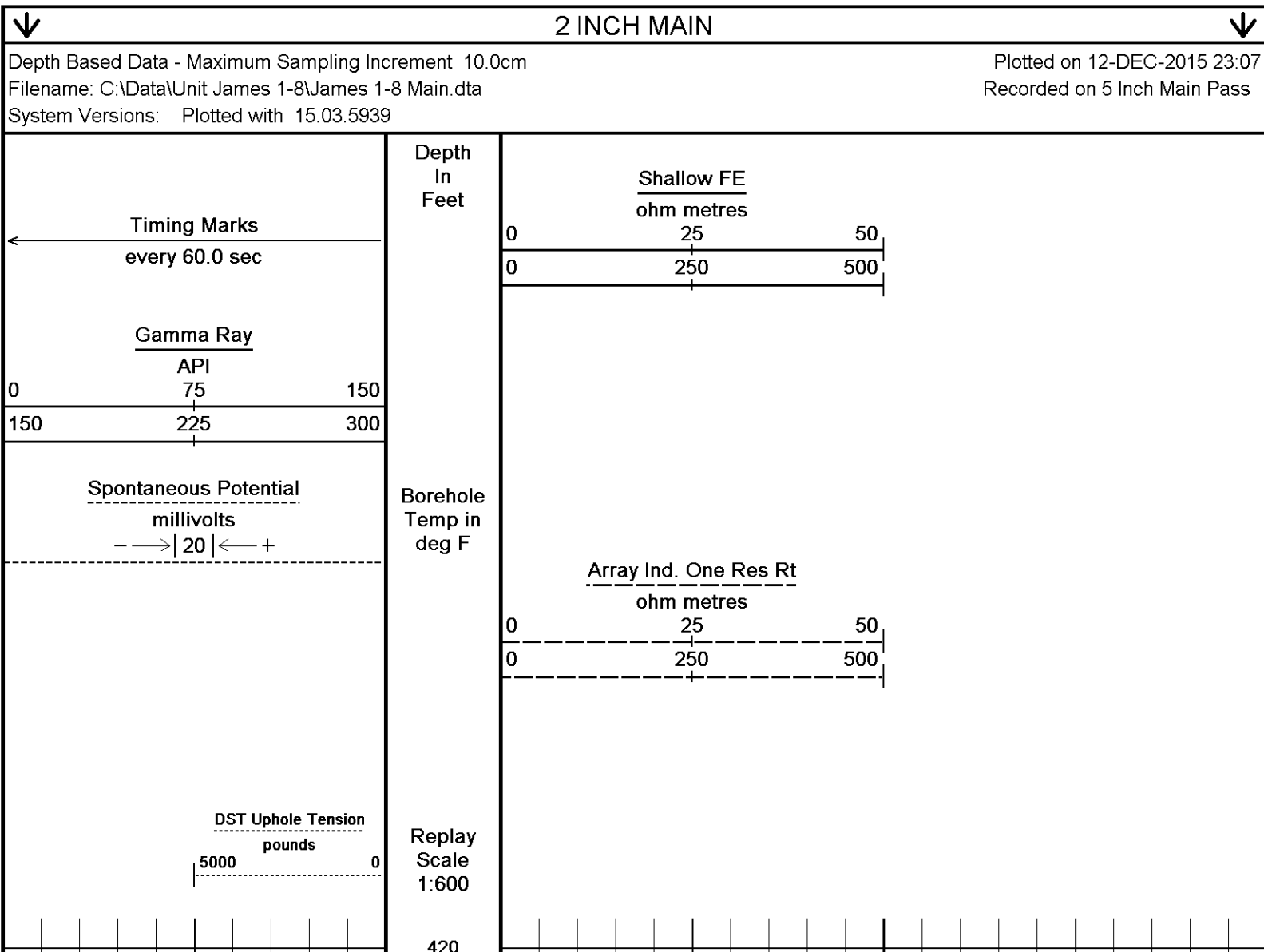
RIG: EXTREME DRILLING, RIG #11

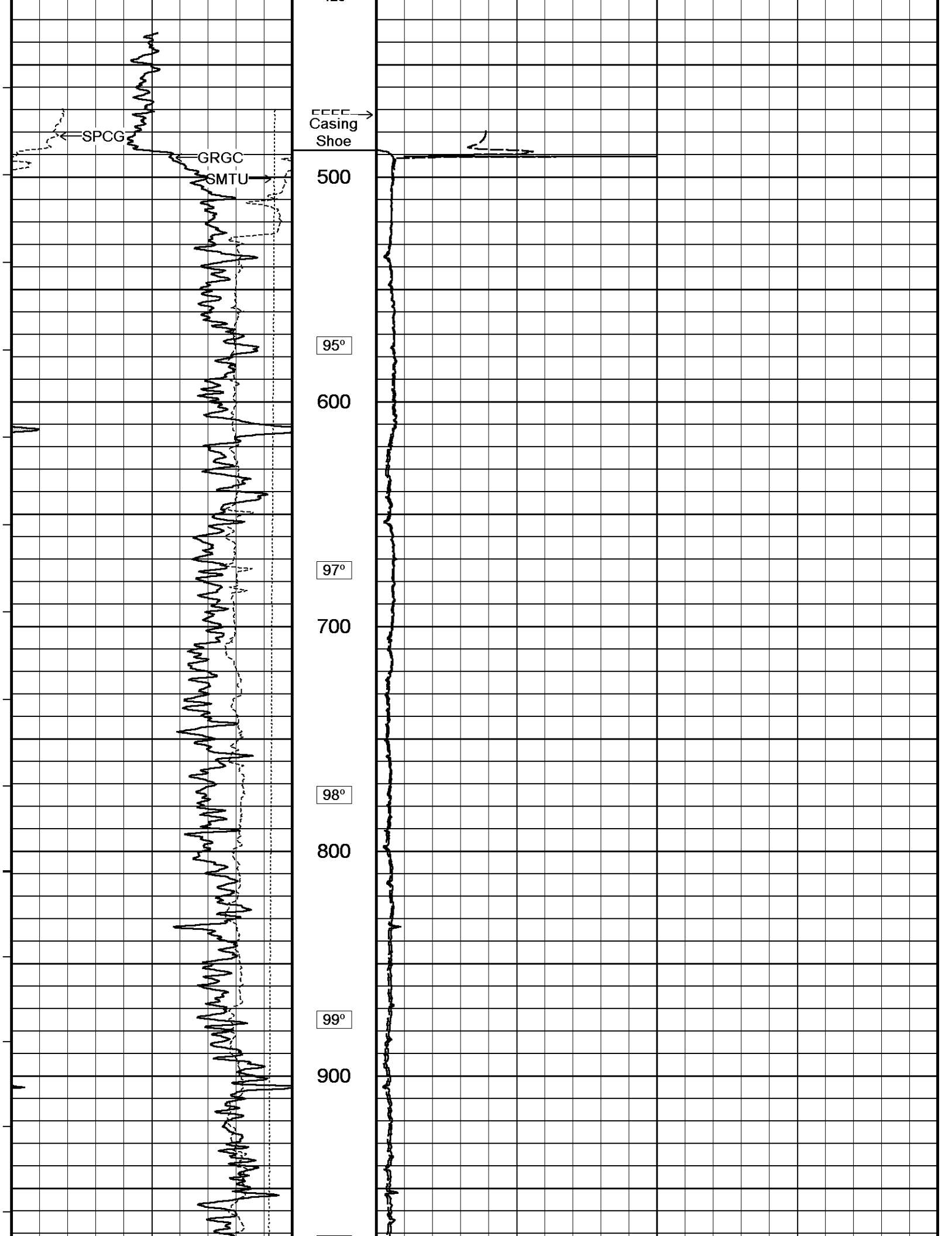
OPERATOR(S): R. BRADSHAW, C. COUSINS

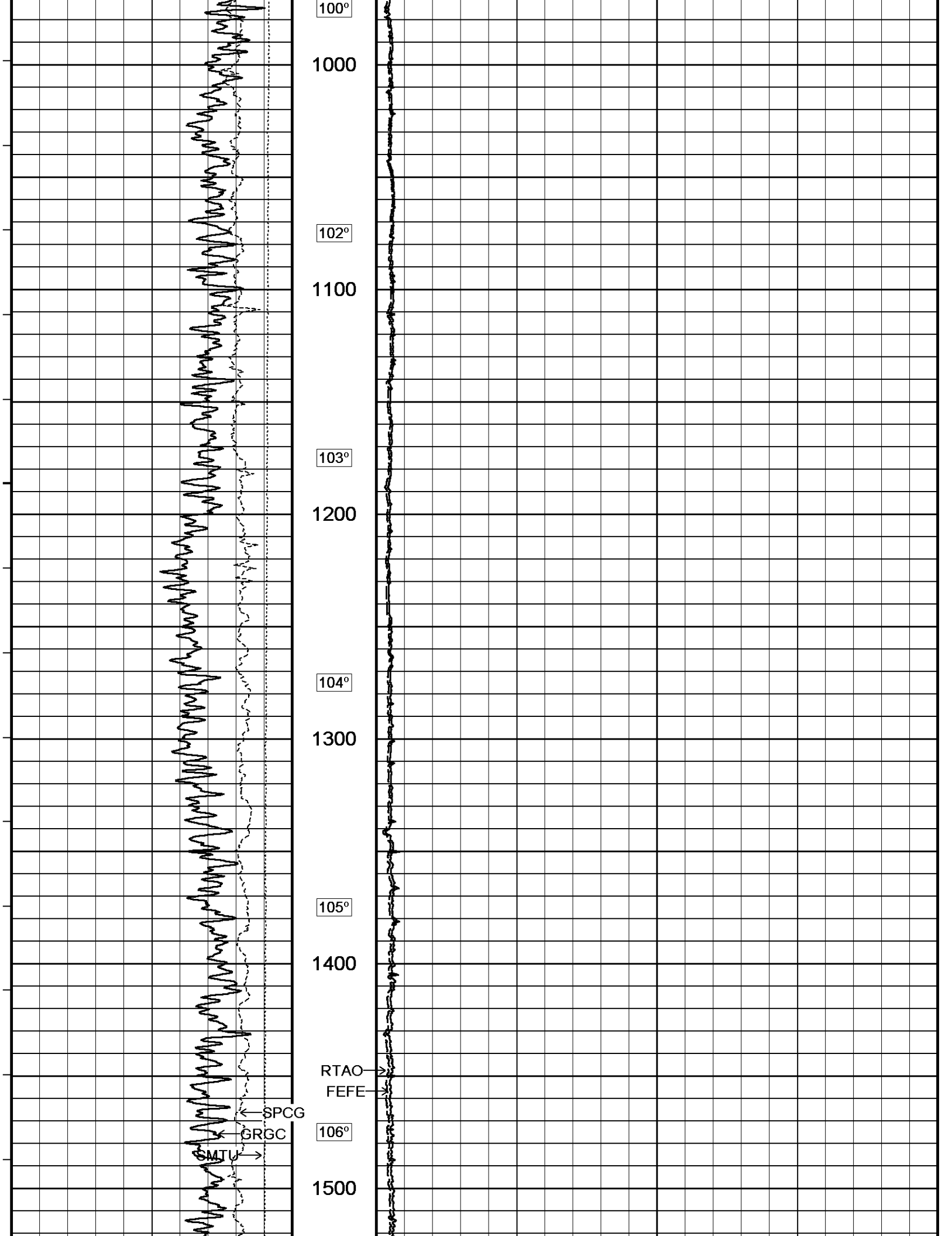
MUD PROPERTIES:
CHLORIDES: 1400 MG/L
LCM: 11%

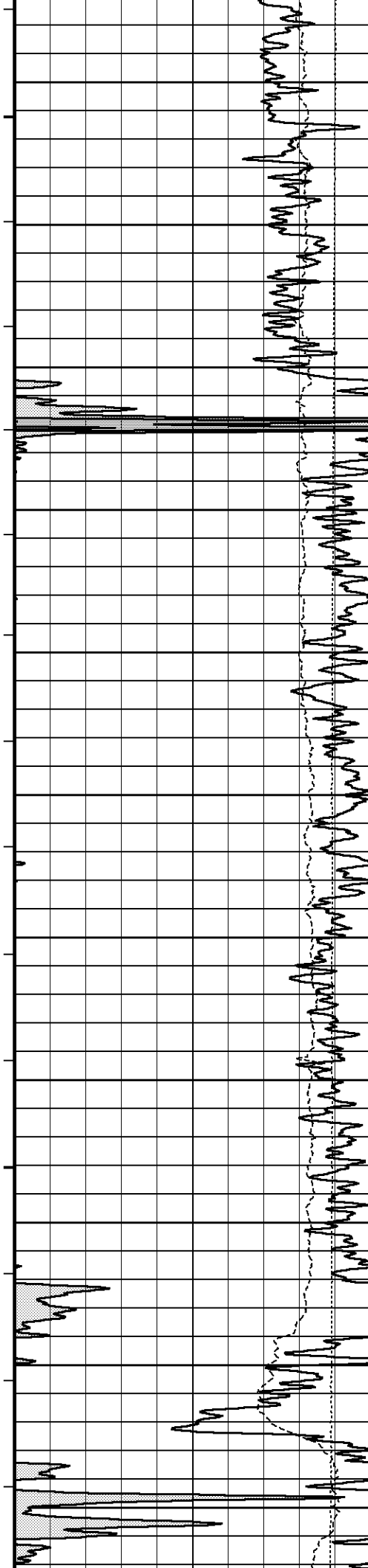
HOLE WASHOUTS AND RUGOSITY WILL AFFECT LOG QUALITY AND REPEATABILITY.

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.









108°

1600

109°

1700

109°

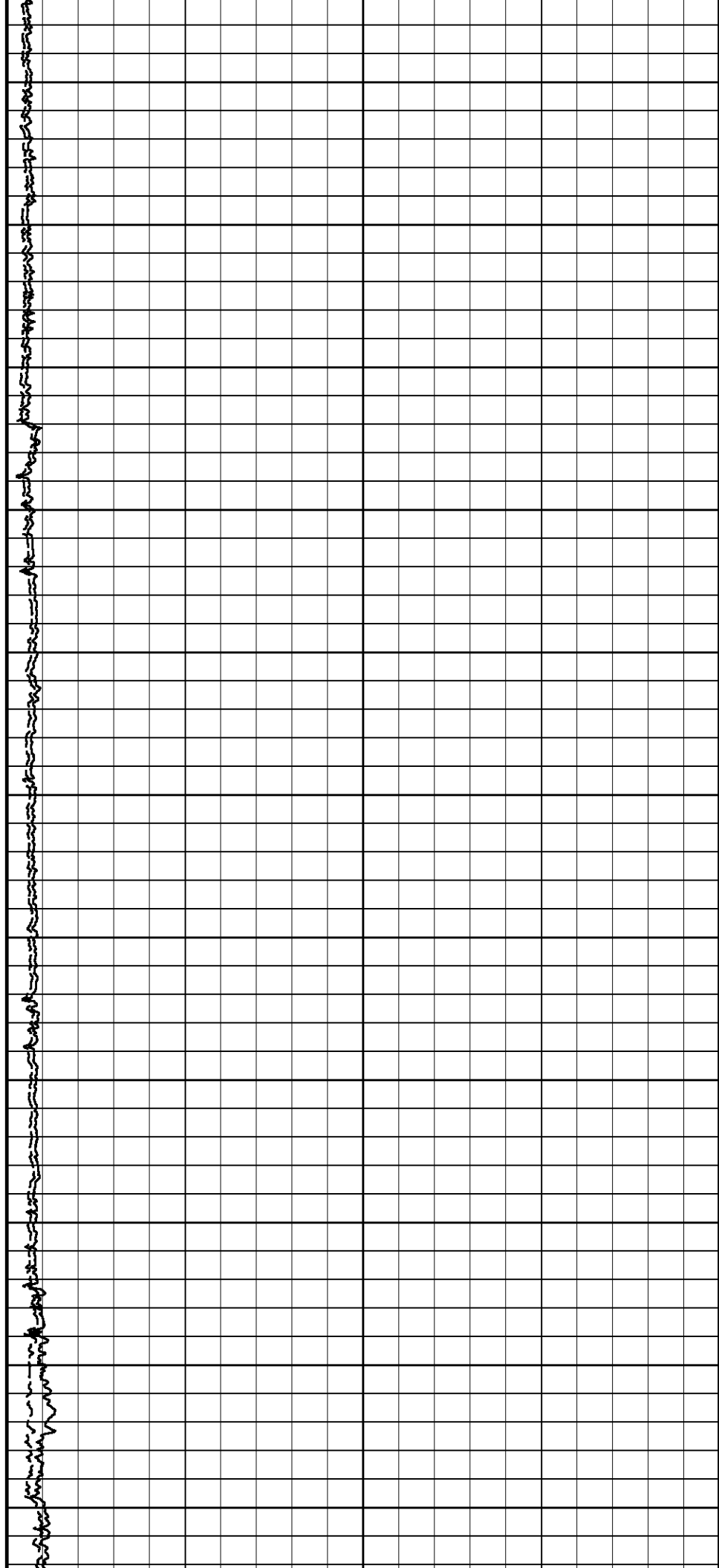
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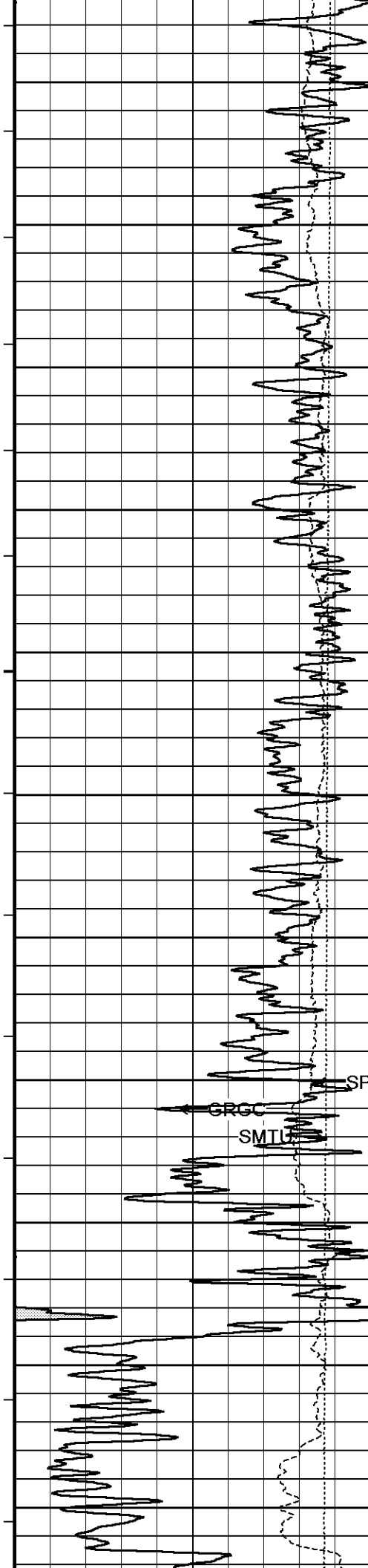
110°

1900

110°

2000





112°

2100

112°

2200

114°

2300

116°

2400

RTAO →

FEFE →

SPCG

GRGC

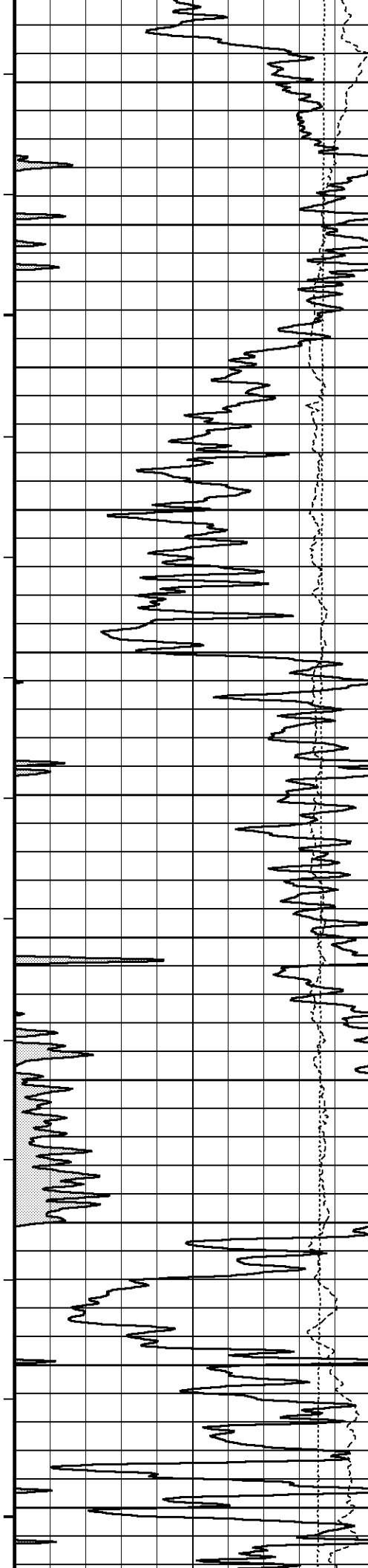
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117°

2500

119°

2600



119°

2700

121°

2800

122°

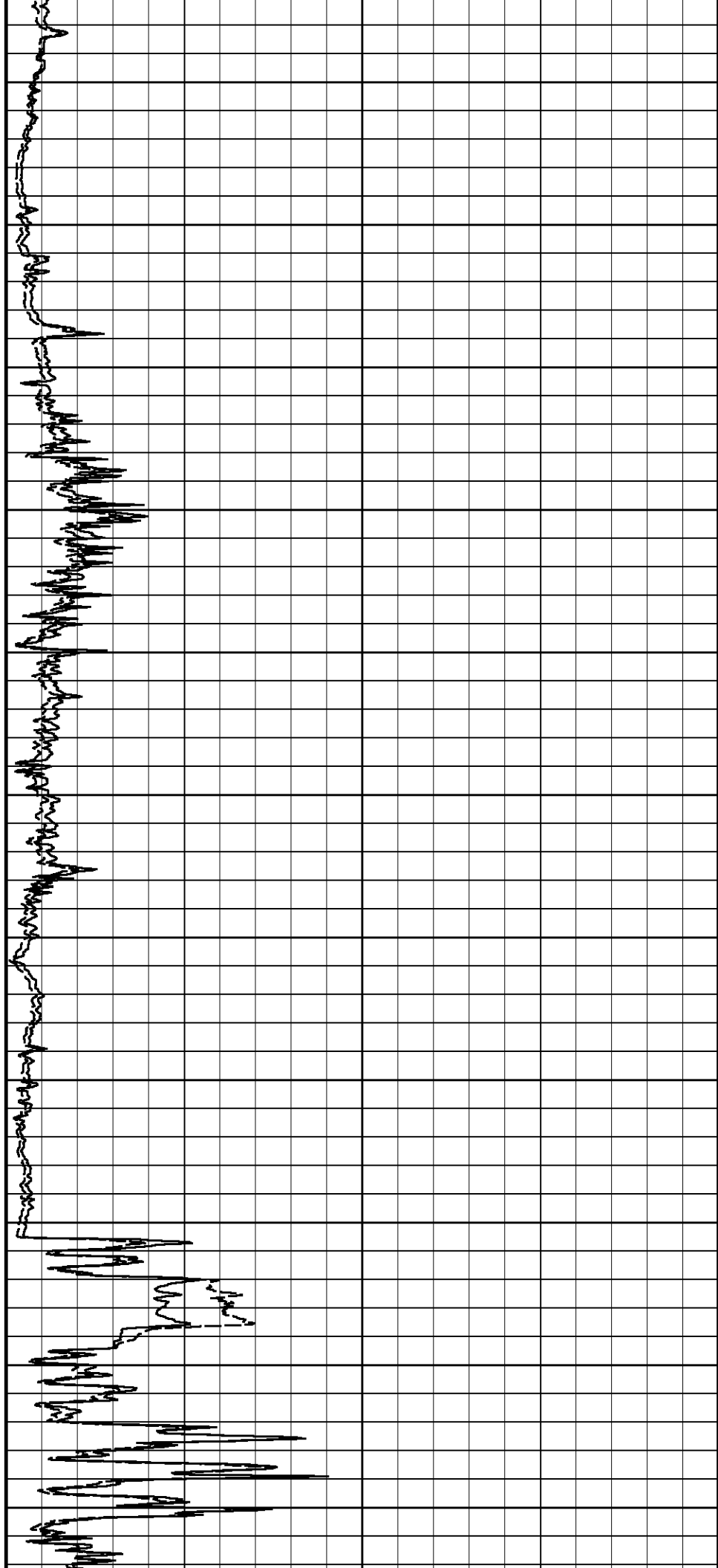
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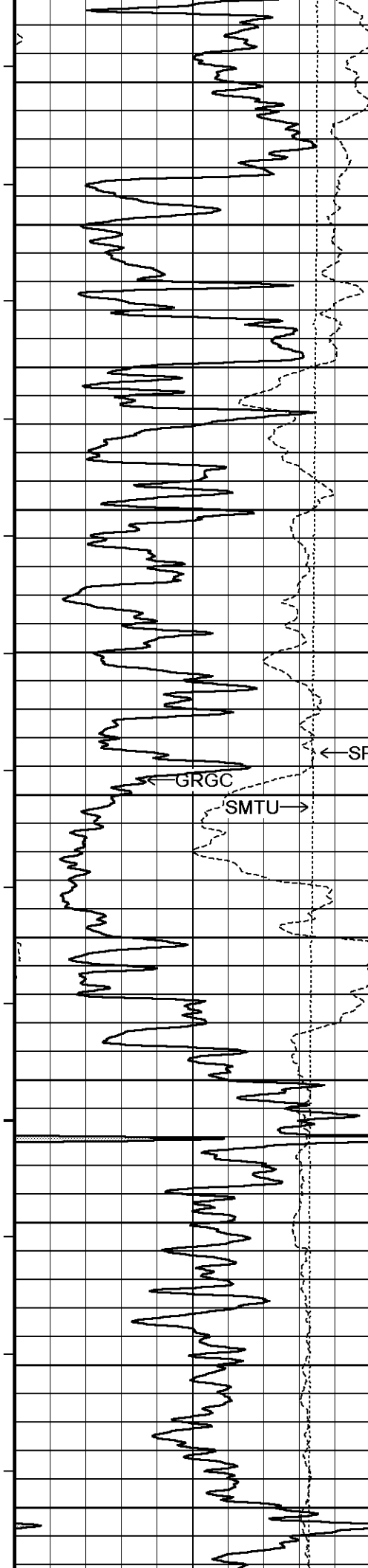
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3000

125°

3100





126°

3200

127°

3300

128°

3400

RTAO

FEFE

← SPCG

GRGC

SMTU →

129°

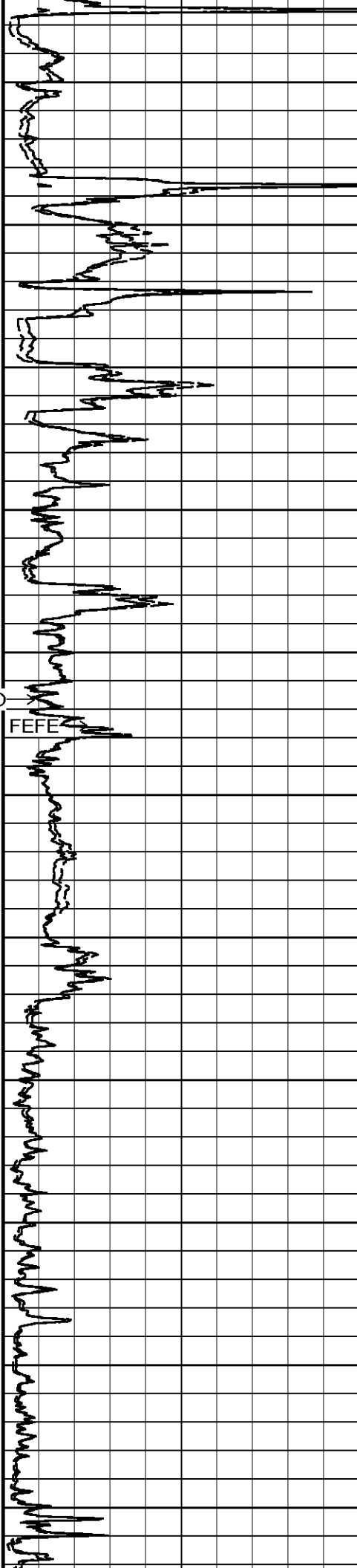
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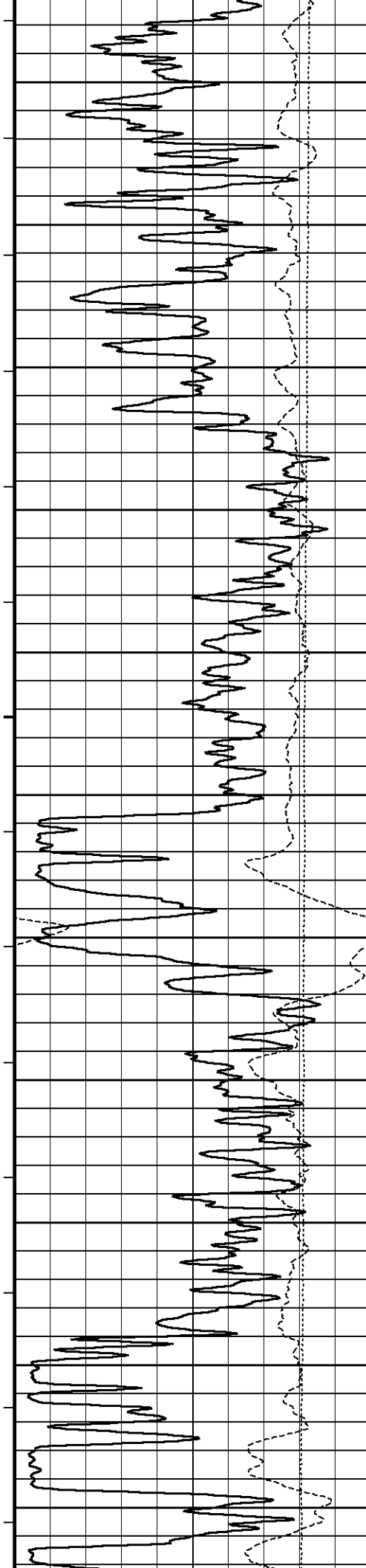
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3700





133°

3800

133°

3900

134°

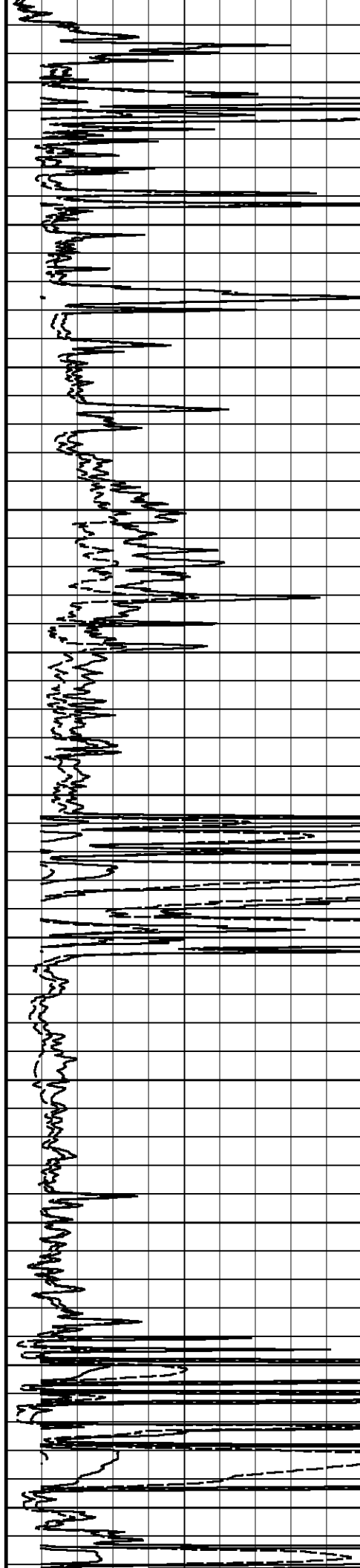
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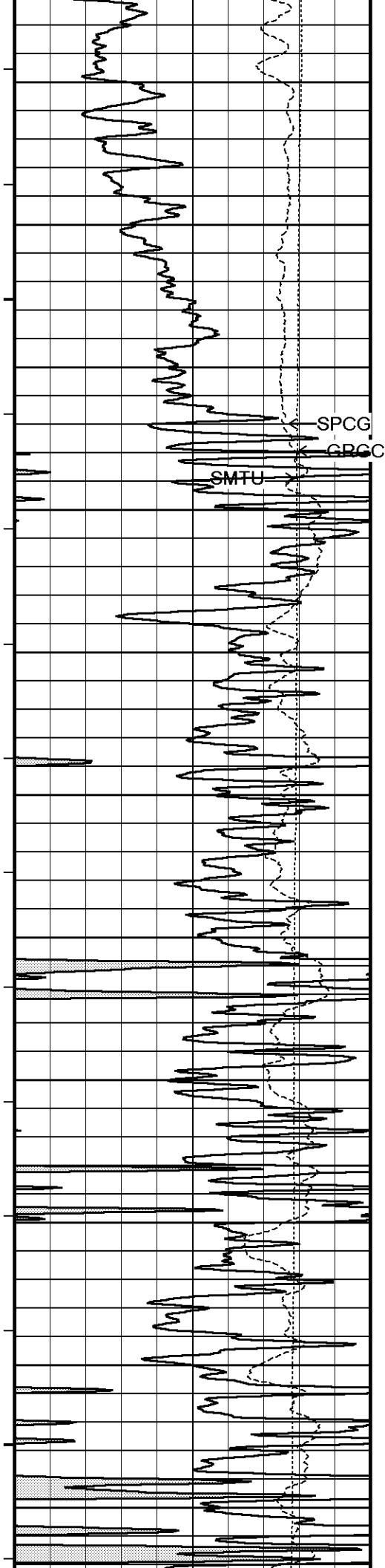
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4100

136°

4200





137°

4300

138°

4400

RTAO
FEFE

139°

4500

140°

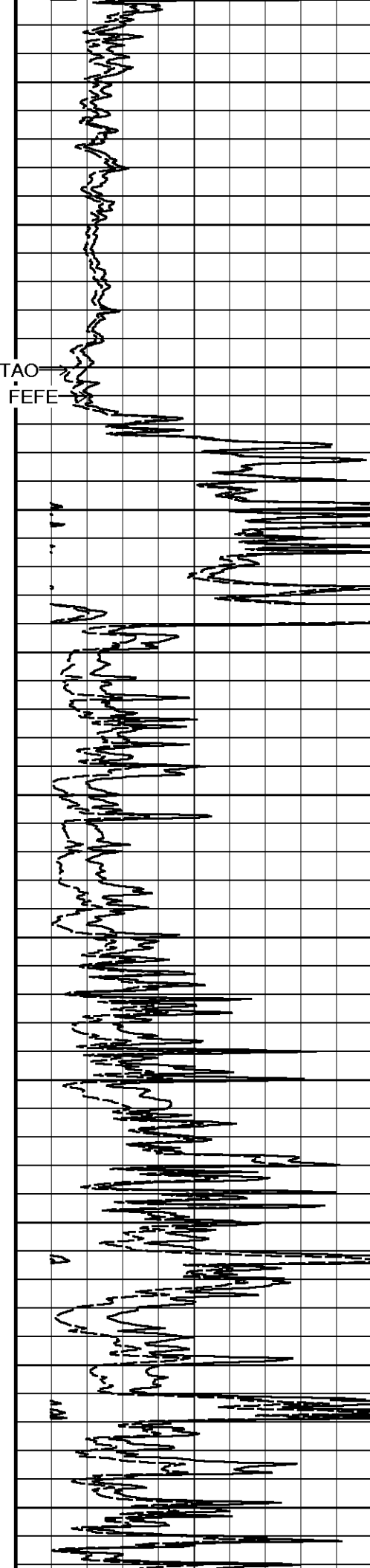
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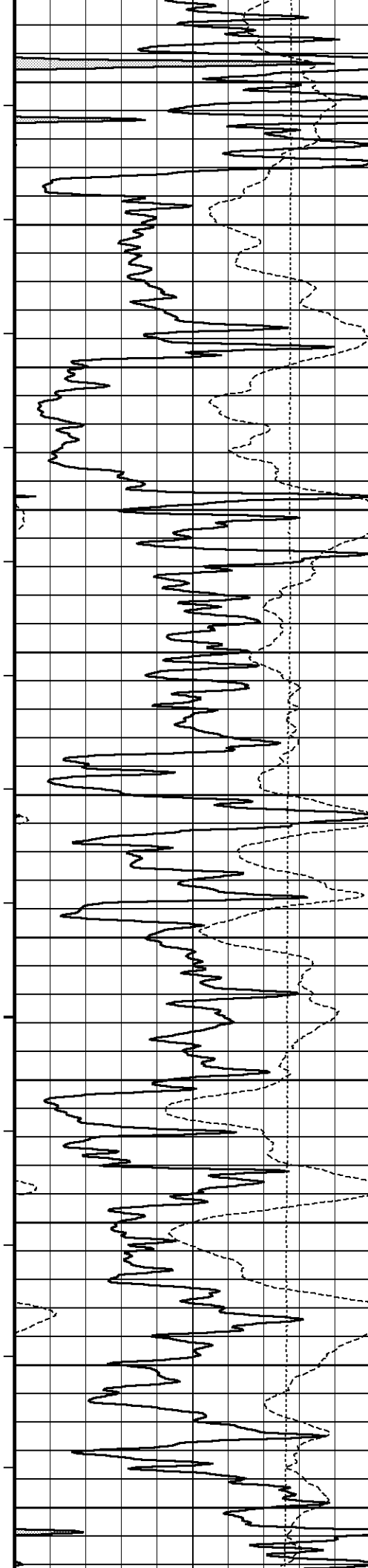
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4700

142°

4800





142°

4900

143°

5000

144°

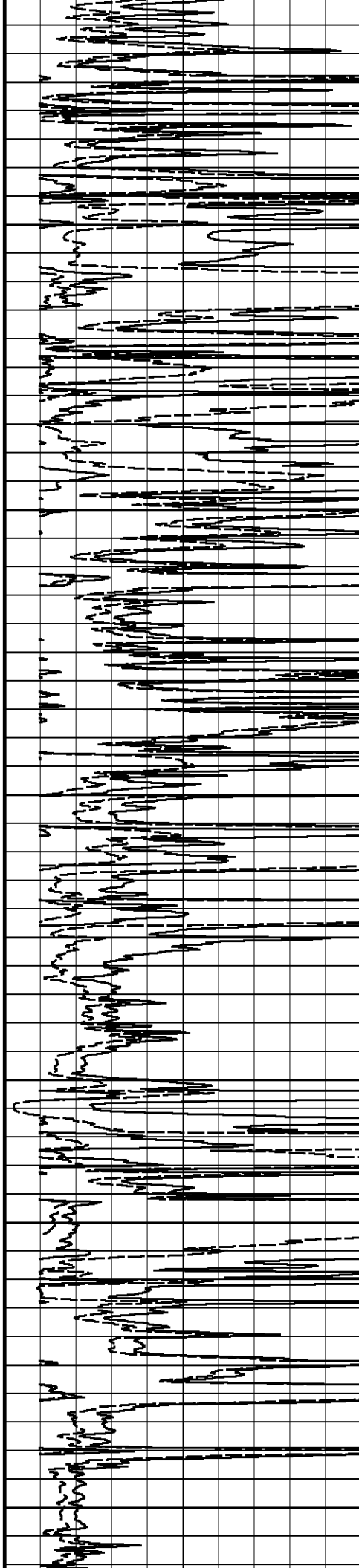
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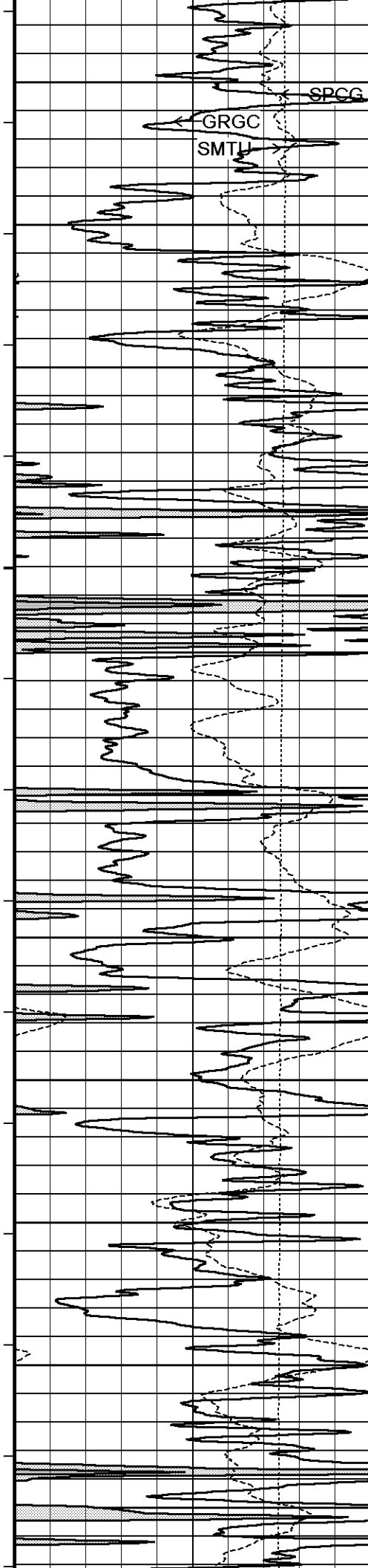
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146°

5300





147°

5400

148°

5500

148°

5600

149°

5700

151°

5800

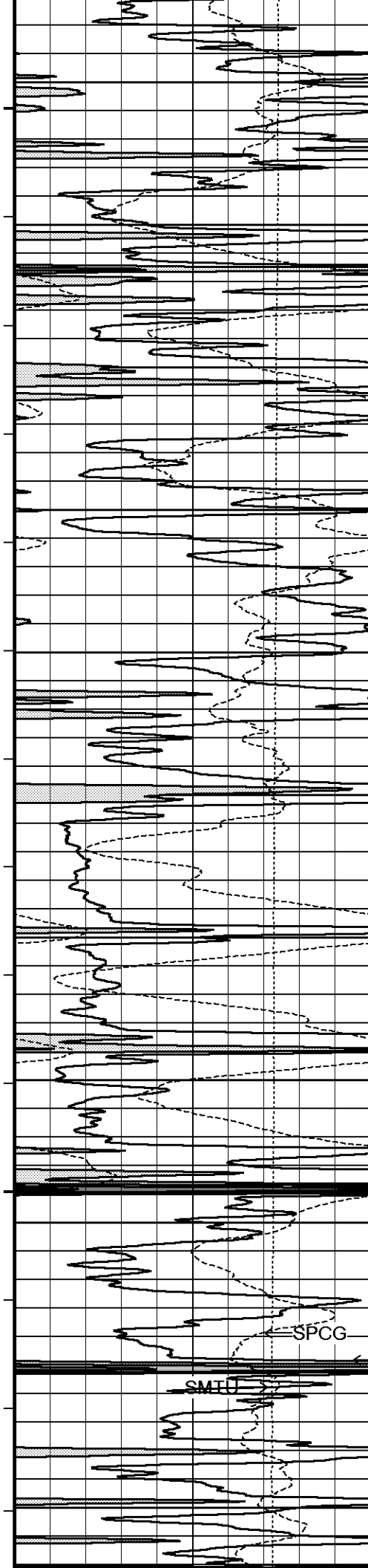
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5900

RTAO

FEFE

FEFE



152°

6000

153°

6100

155°

6200

156°

6300

157°

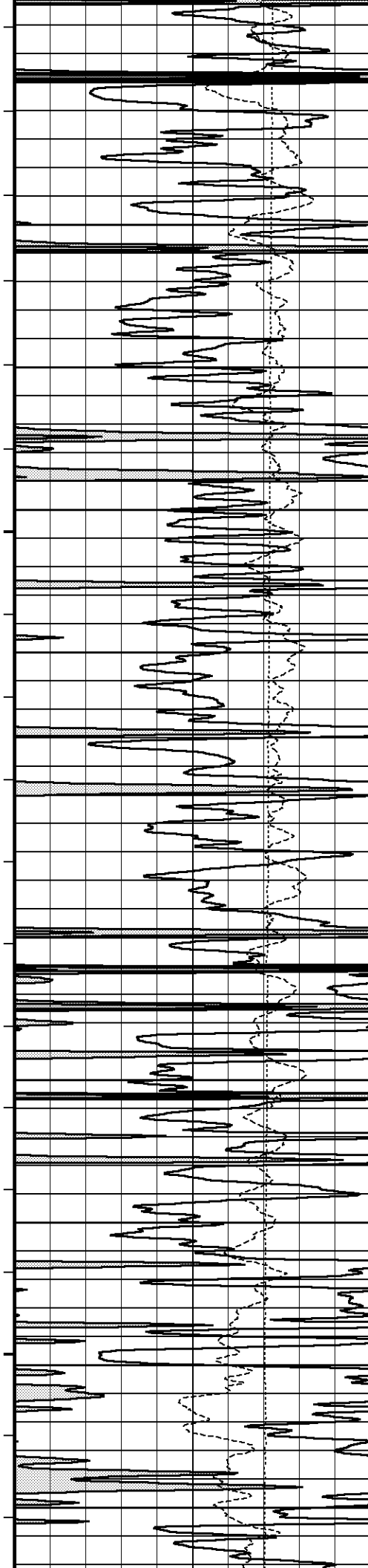
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SPCG

SMTU

FEFE

RTAO



158°

6500

159°

6600

160°

6700

162°

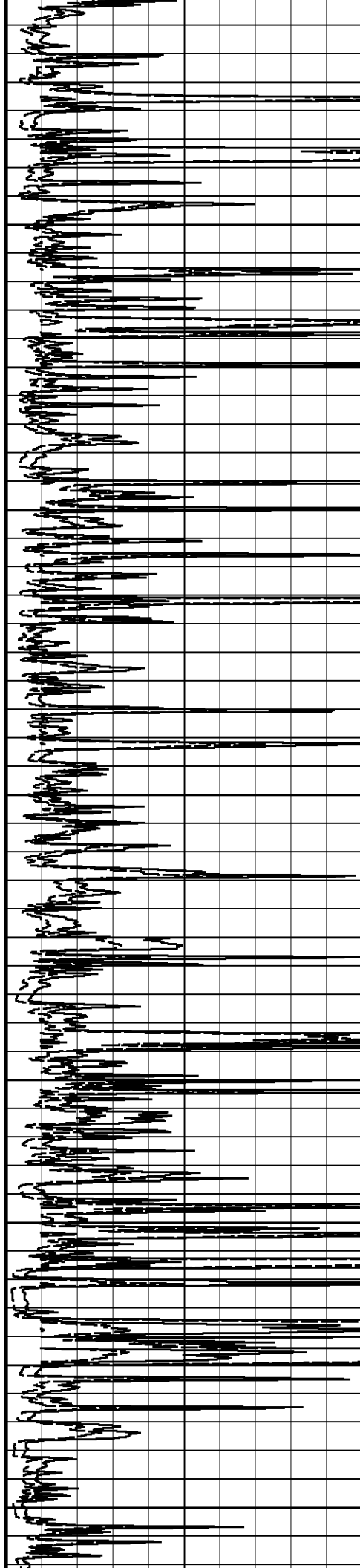
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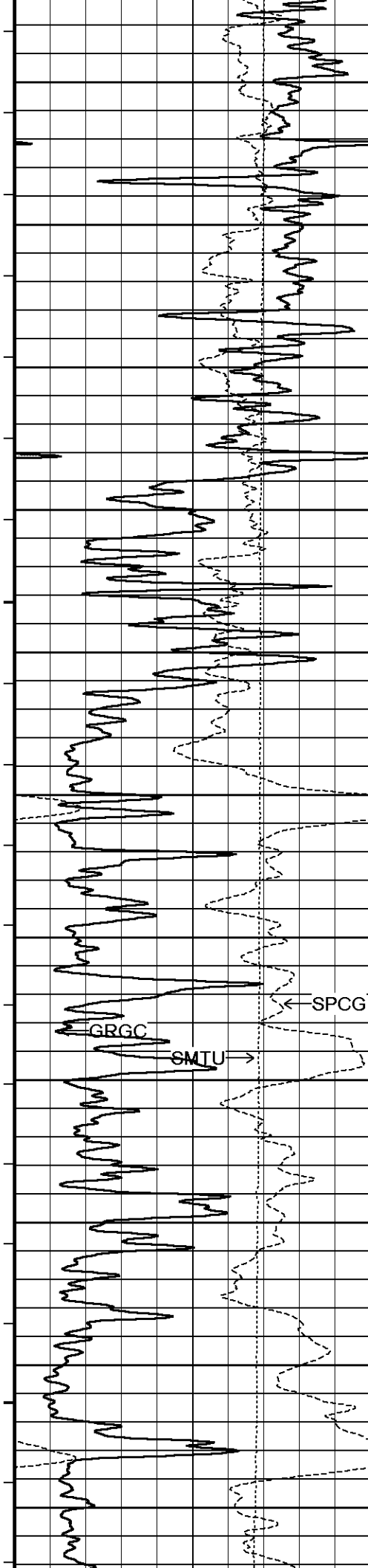
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6900

166°

7000





167°

7100

169°

7200

174°

7300

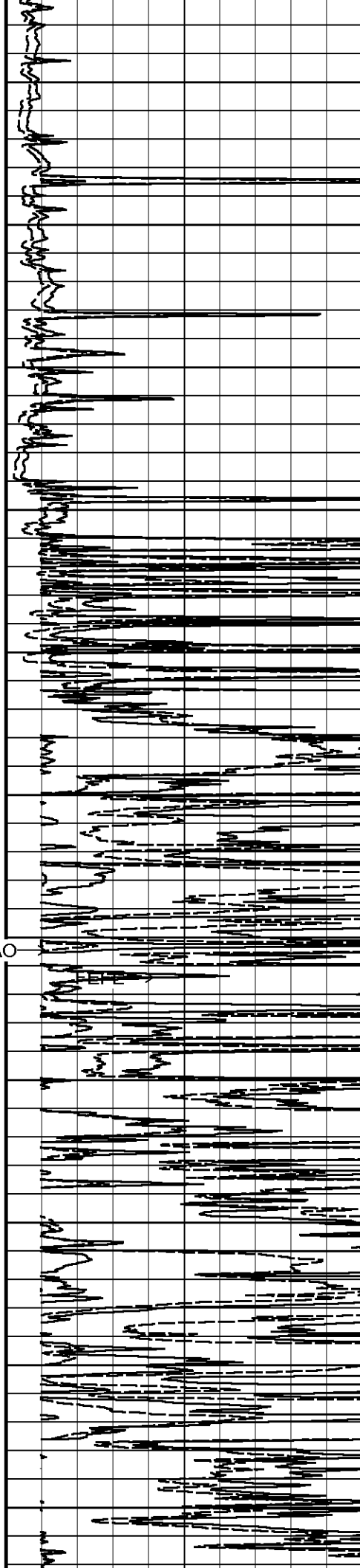
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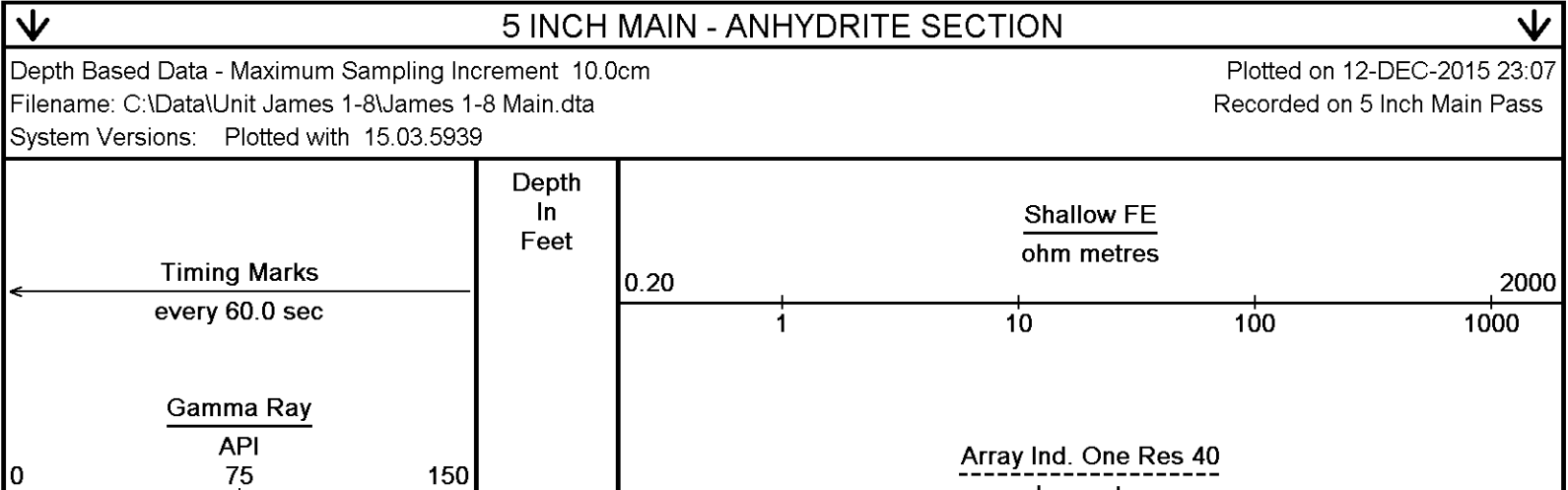
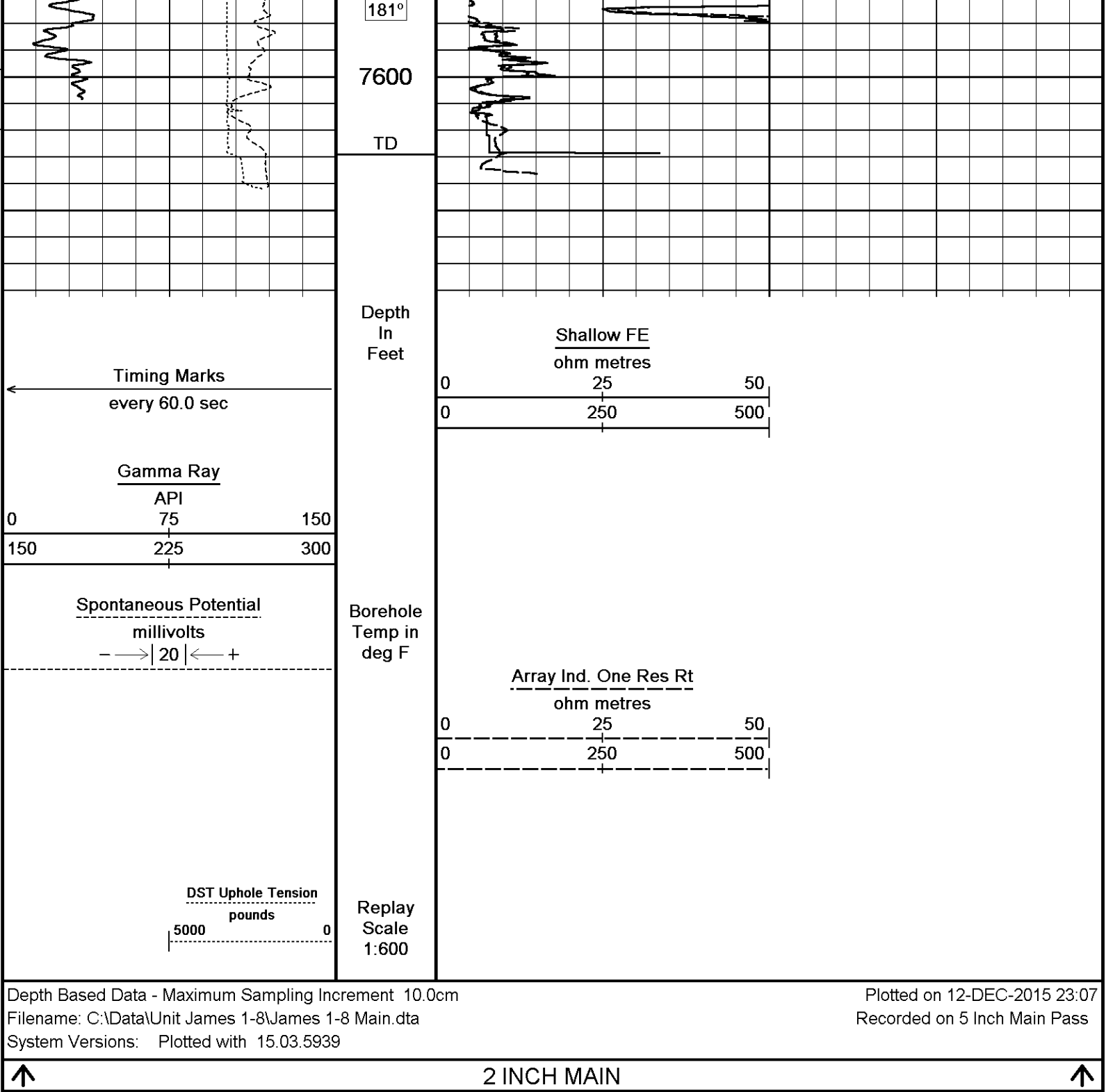
176°

7400

178°

7500





150 225 300

Spontaneous Potential

millivolts

— —> | 20 | <— +

DST Uphole Tension

pounds

5000

0

Borehole
Temp in
deg F

Replay
Scale
1:240

420

450

Casing
Type

500

95°

550

ohm metres

0.20

1

10

100

1000

2000

Array Ind. One Res 60

ohm metres

0.20

1

10

100

1000

2000

Array Ind. One Res Rt

ohm metres

0.20

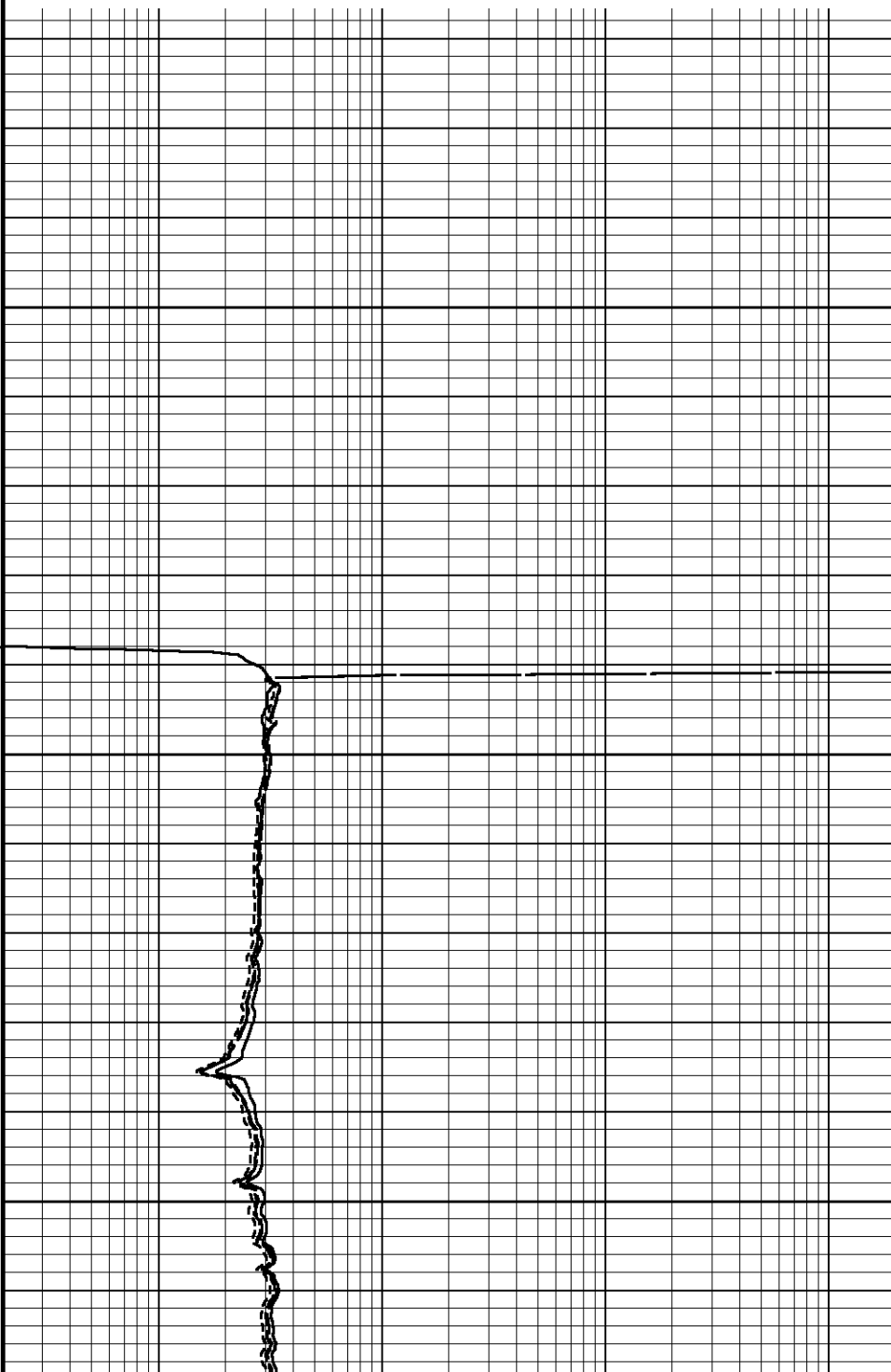
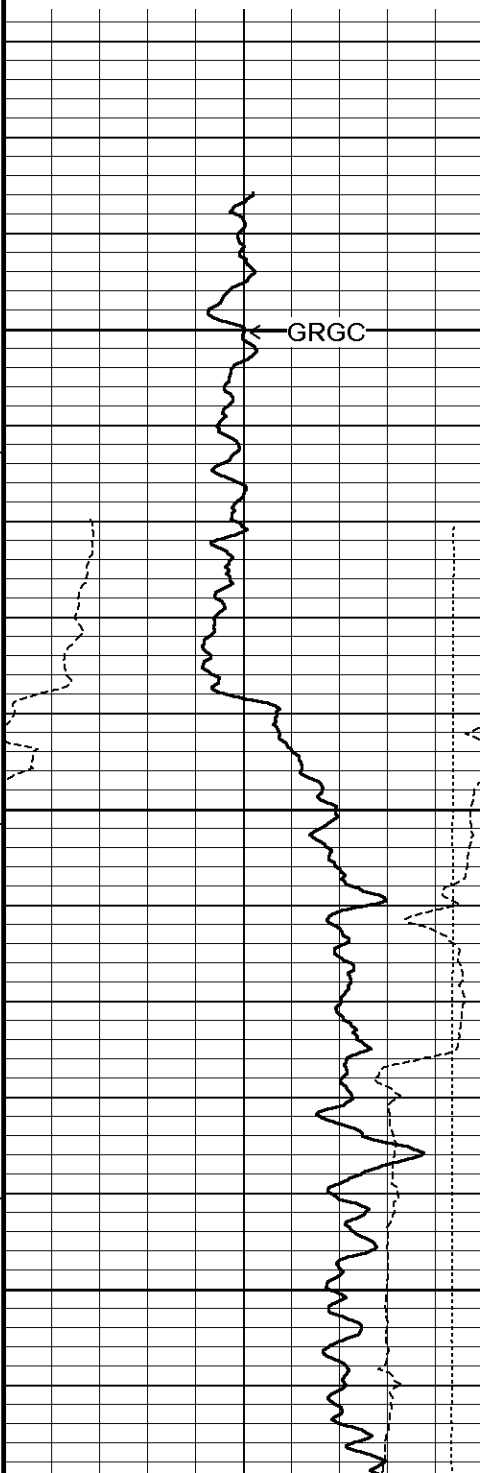
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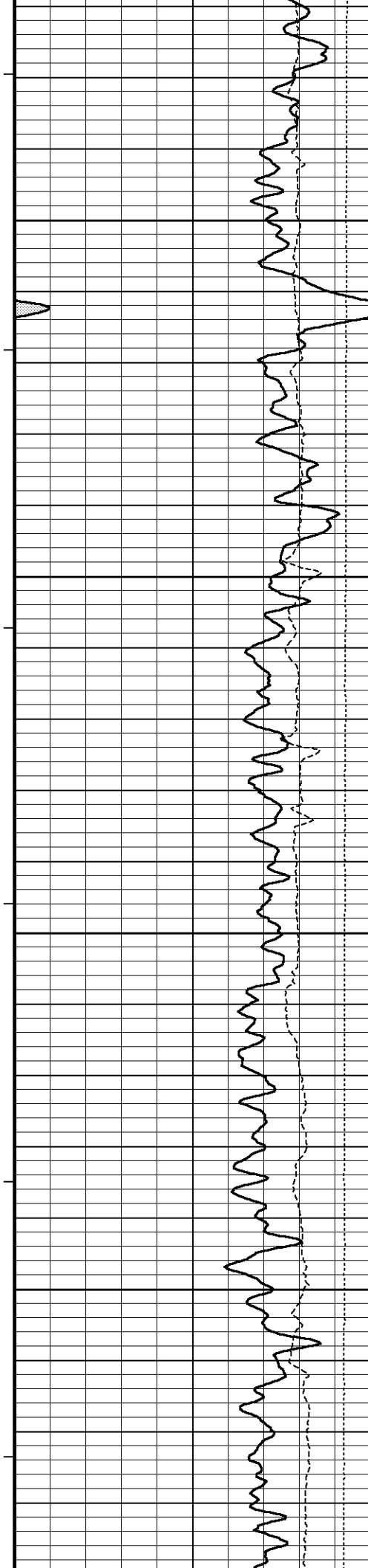
10

100

1000

2000





95°

600

96°

650

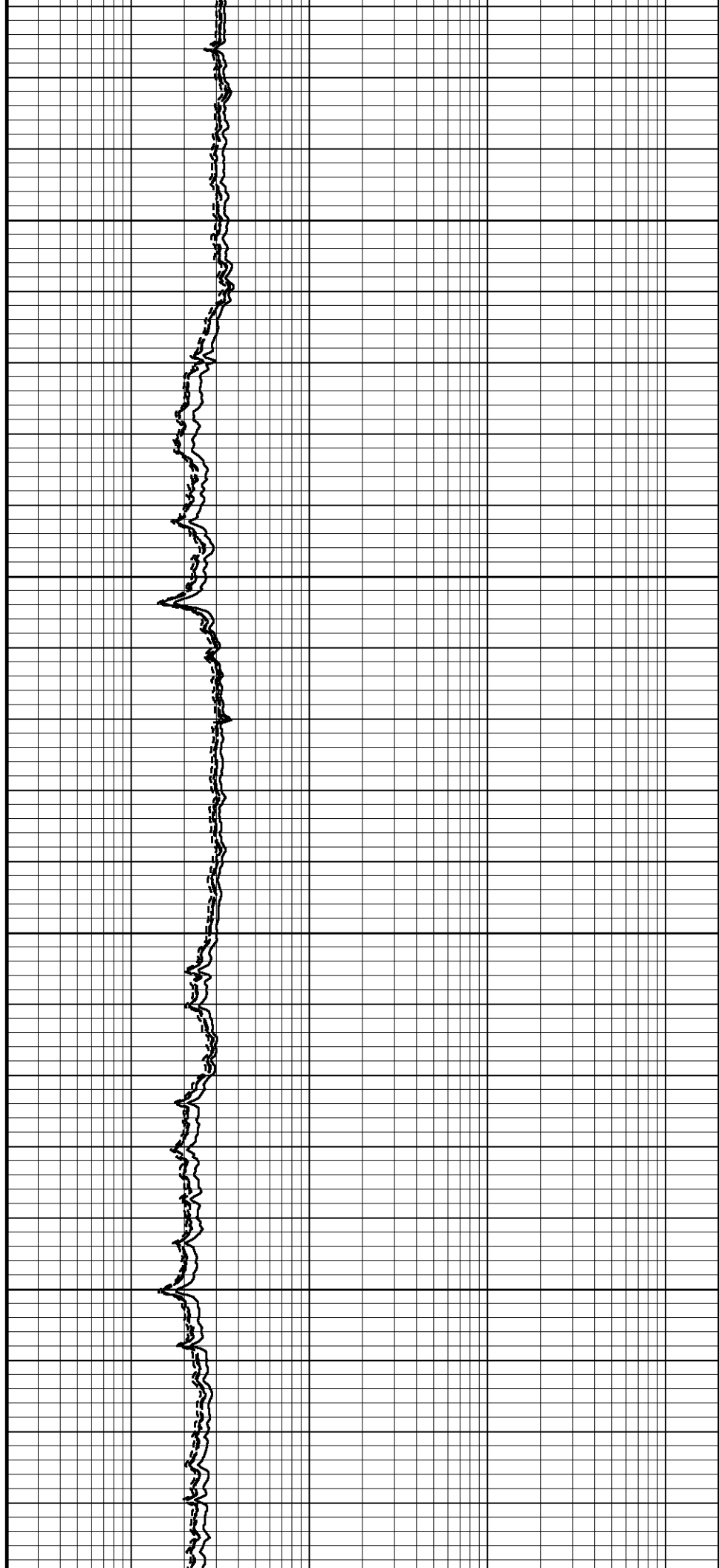
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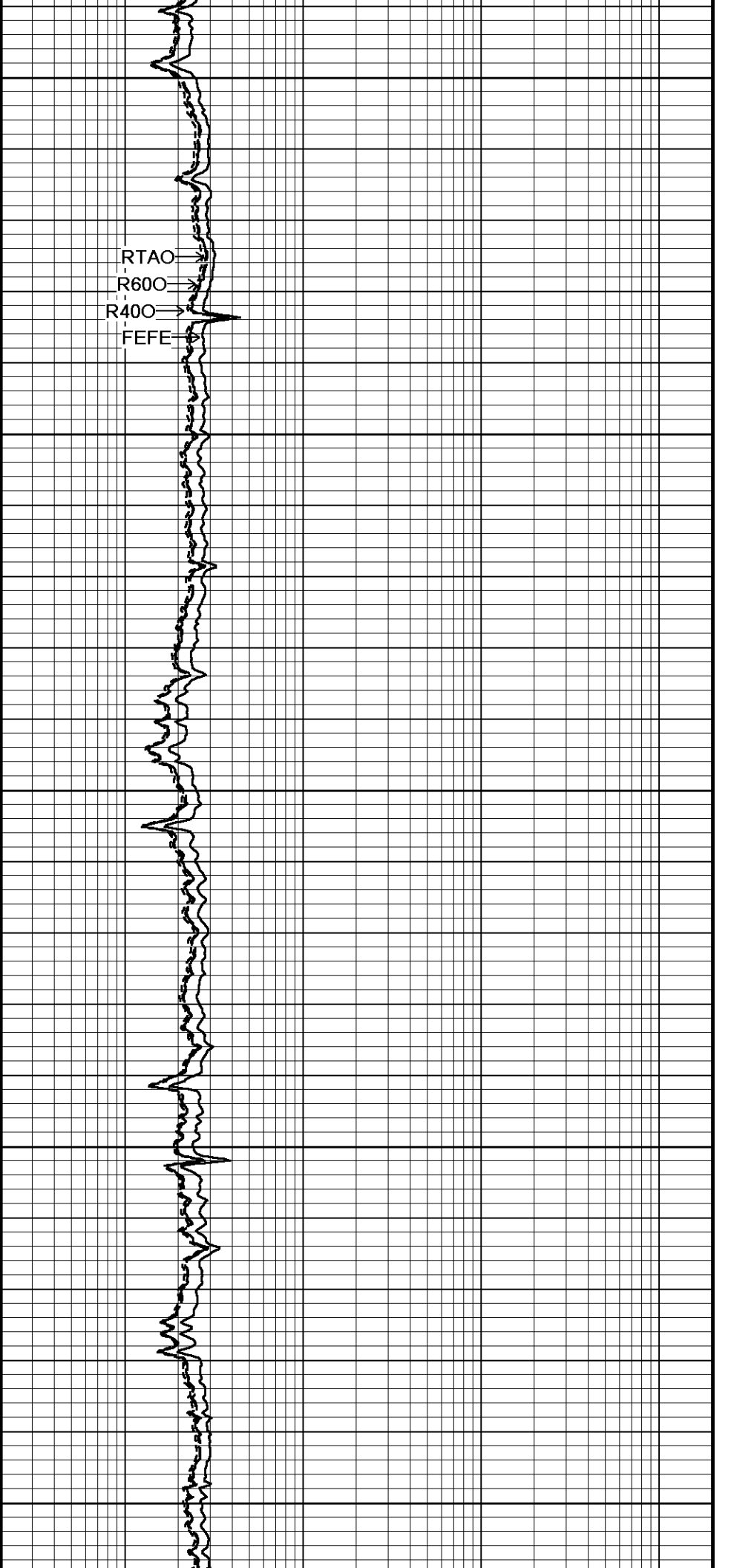
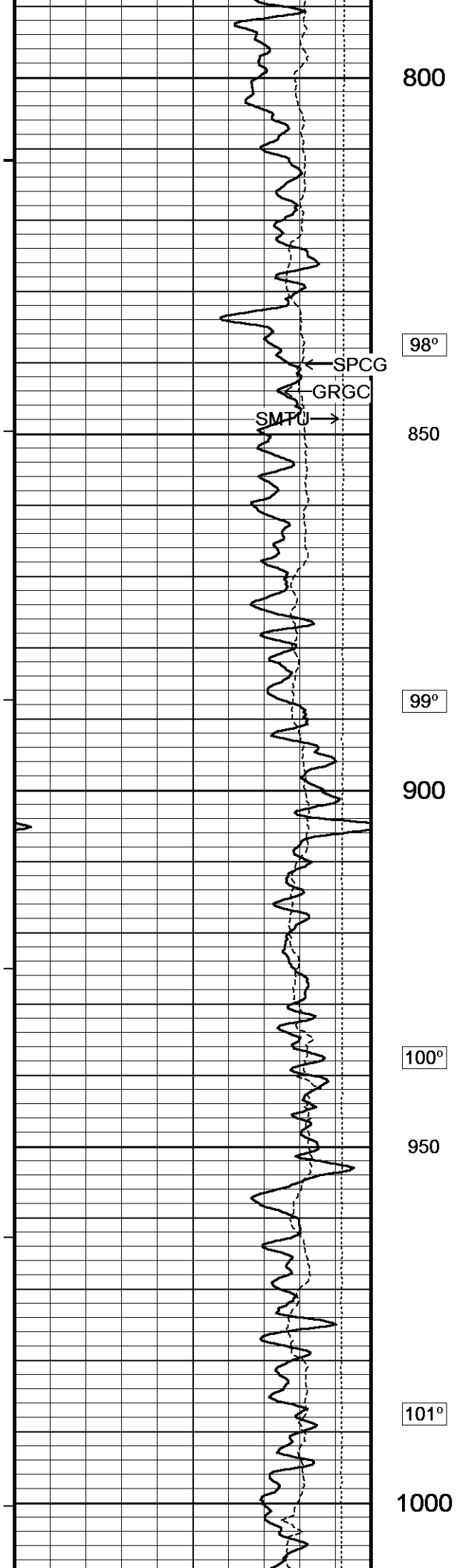
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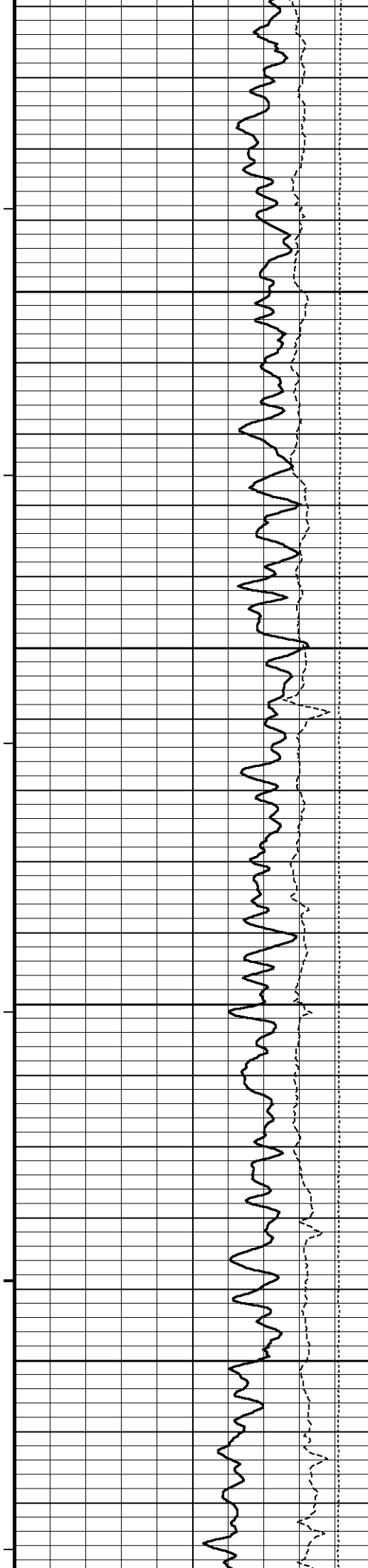
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750

98°







101°

1050

102°

1100

102°

1150

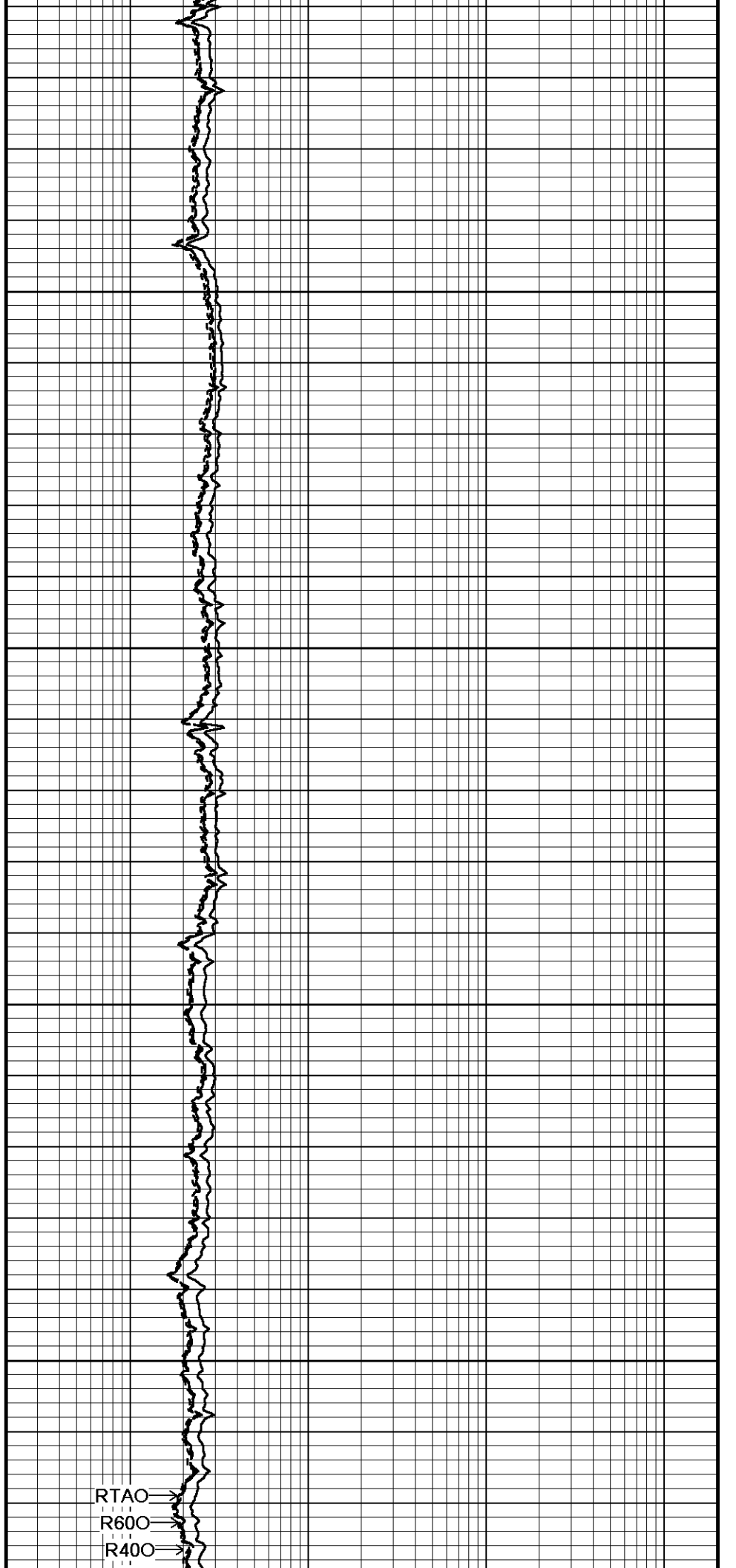
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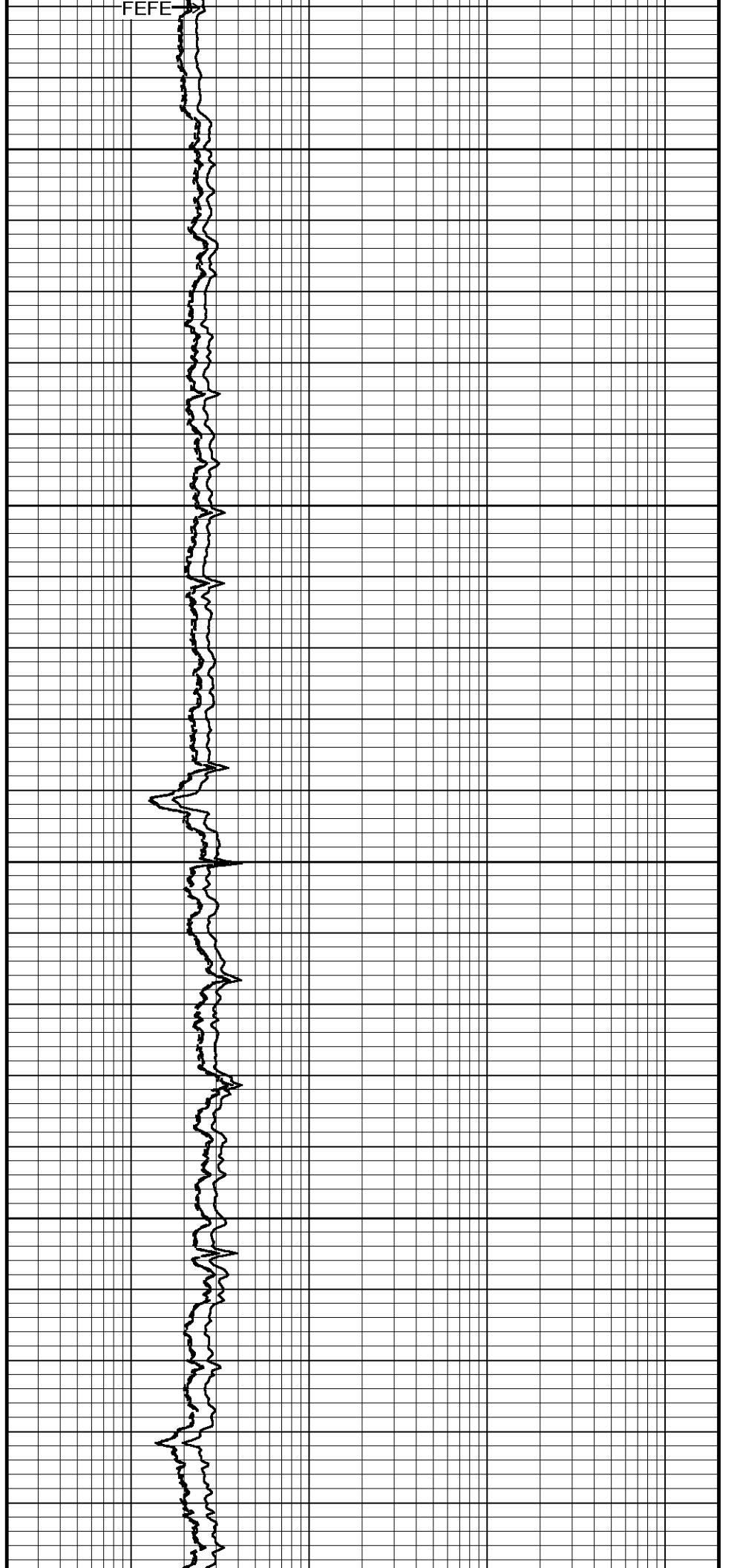
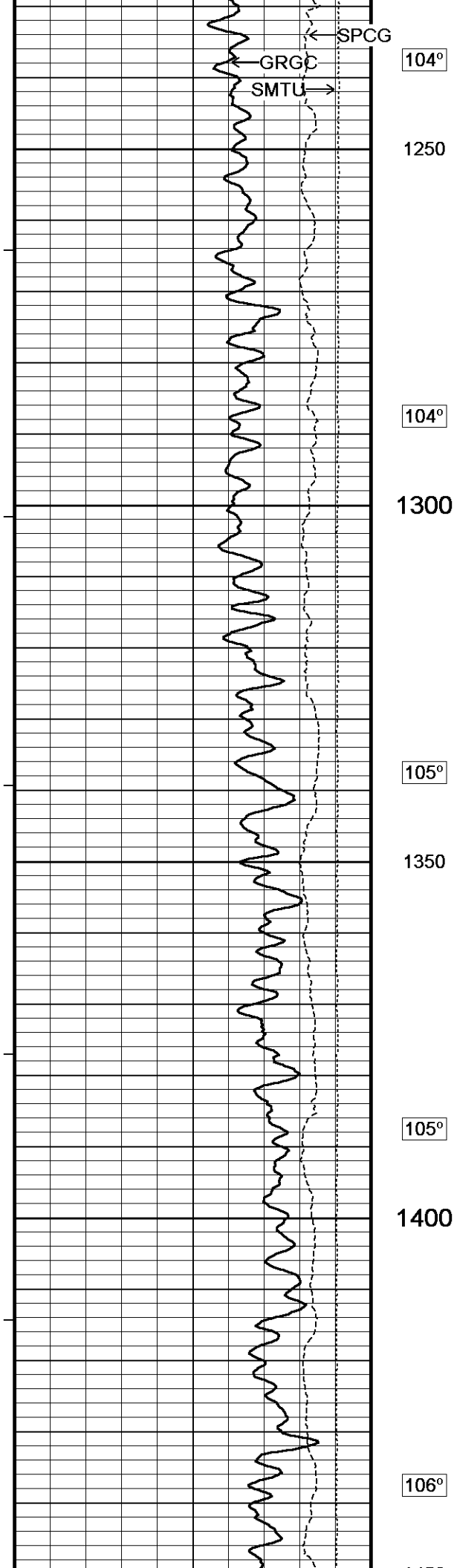
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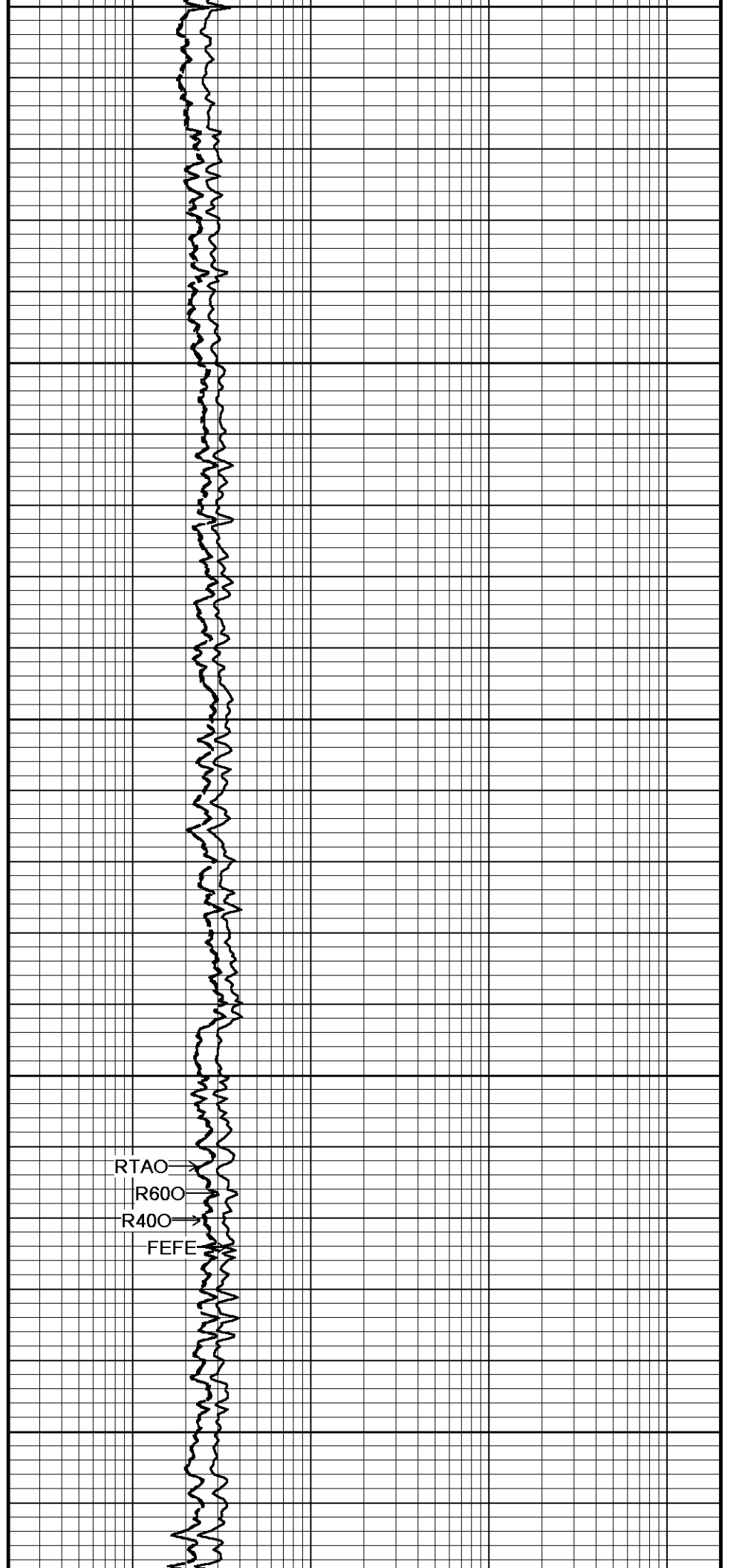
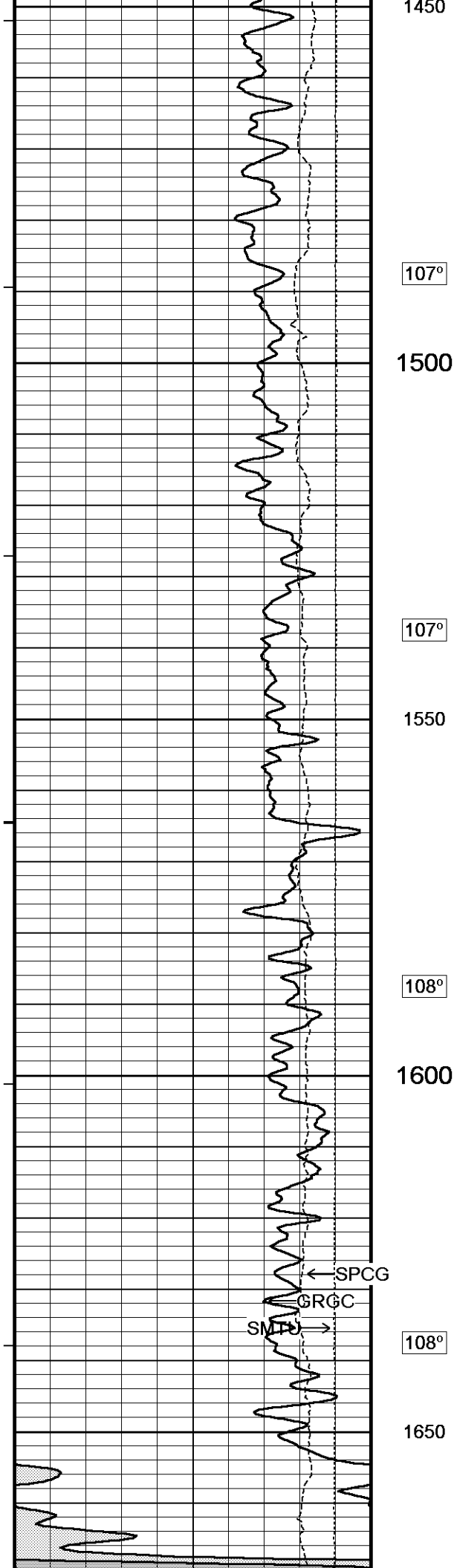
RTAO →

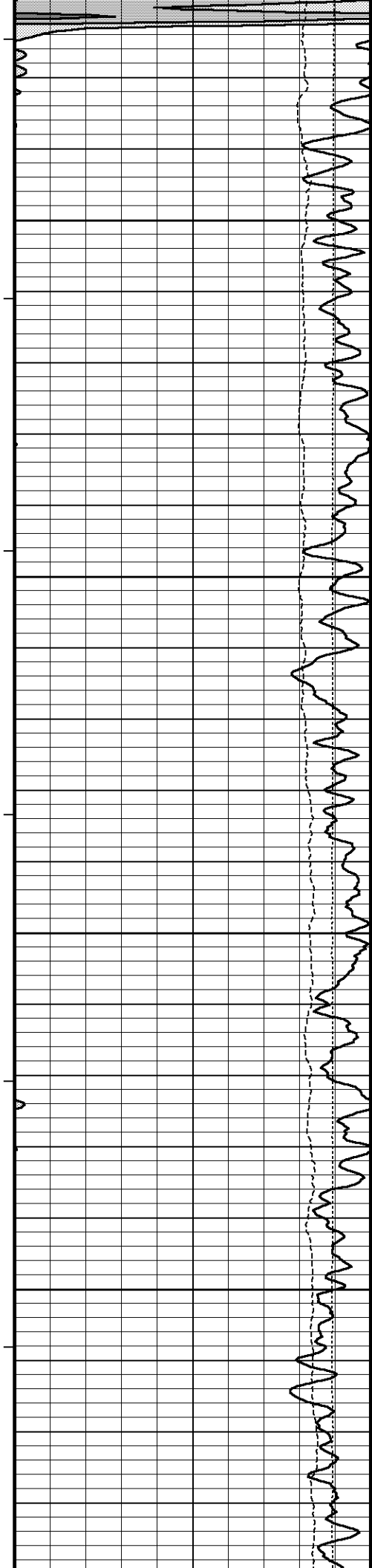
R600 →

R400 →









108°

1700

109°

1750

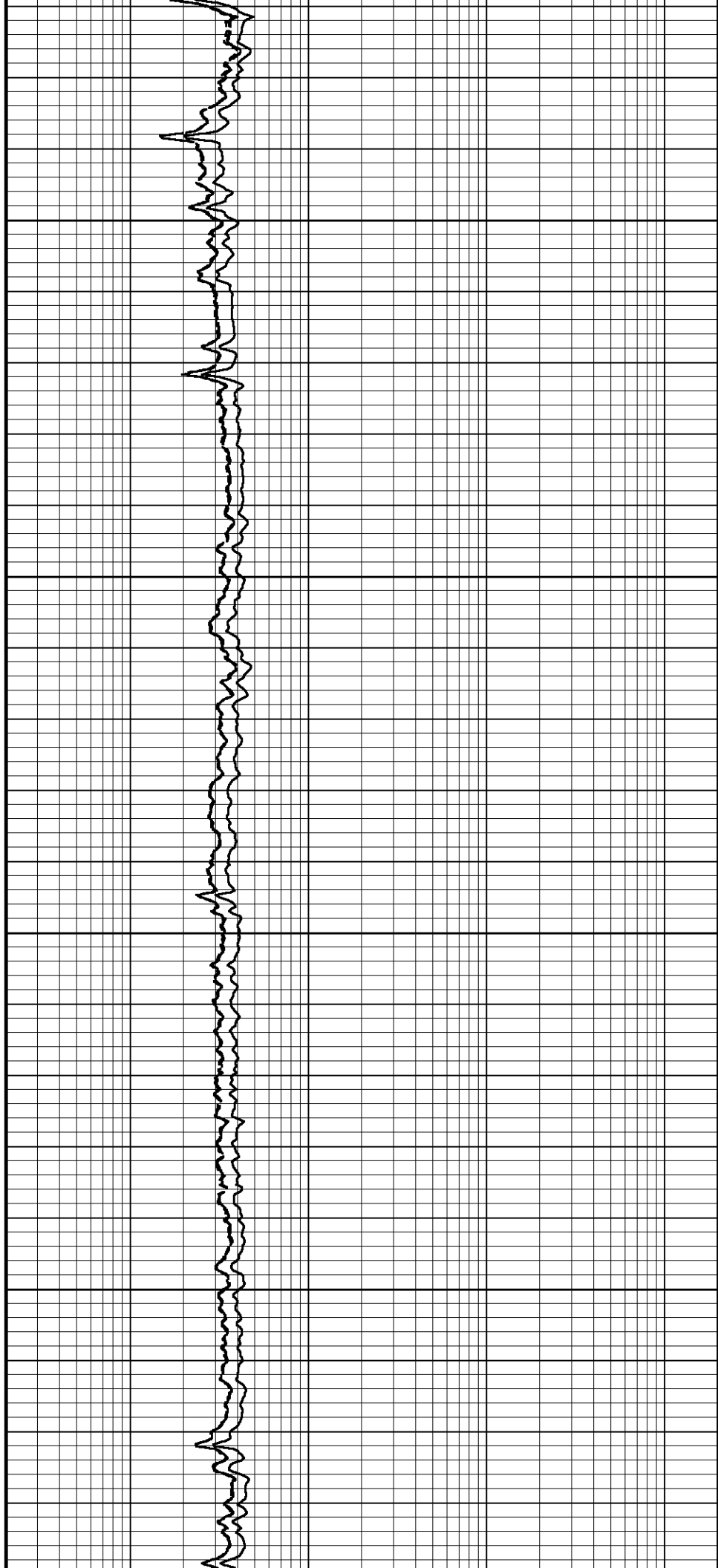
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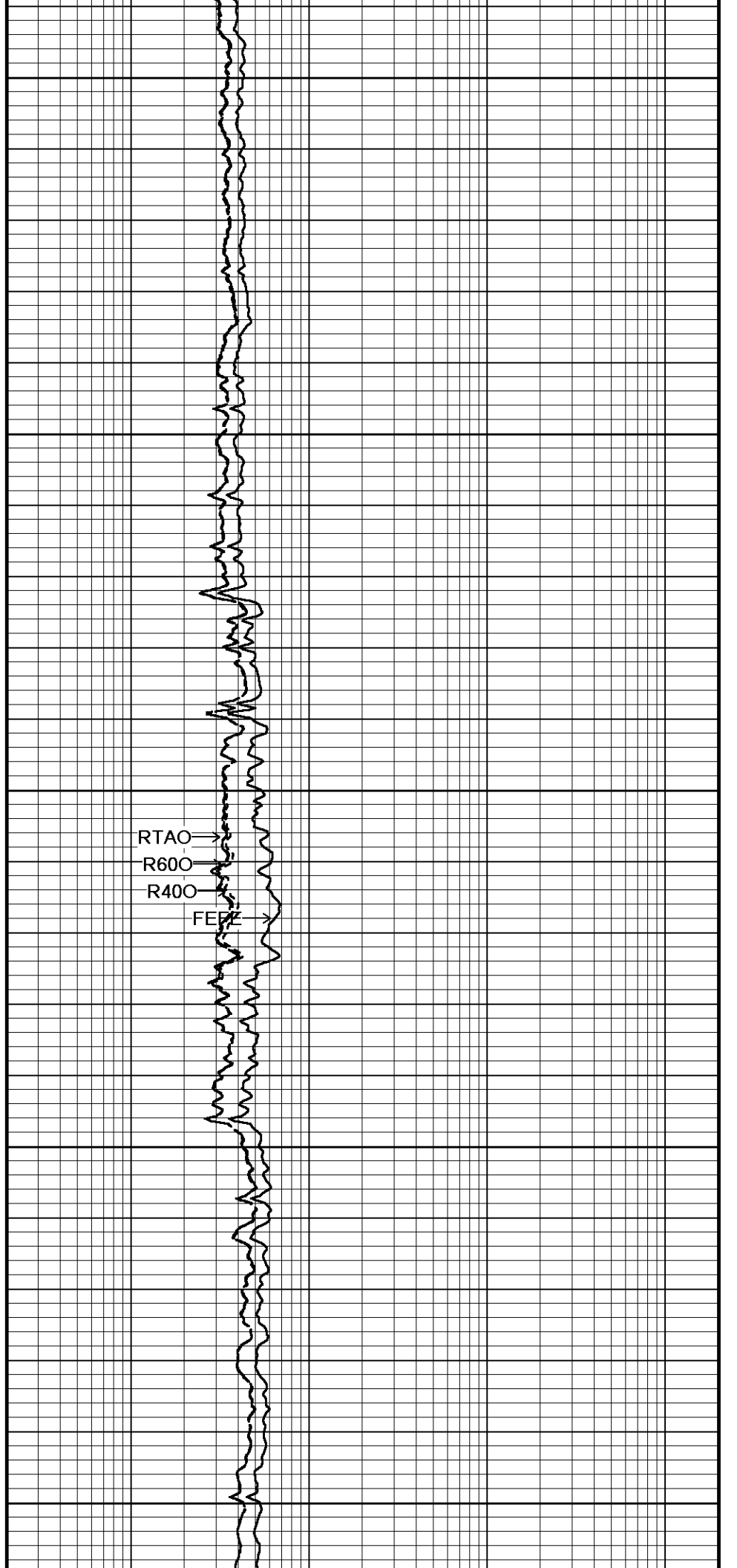
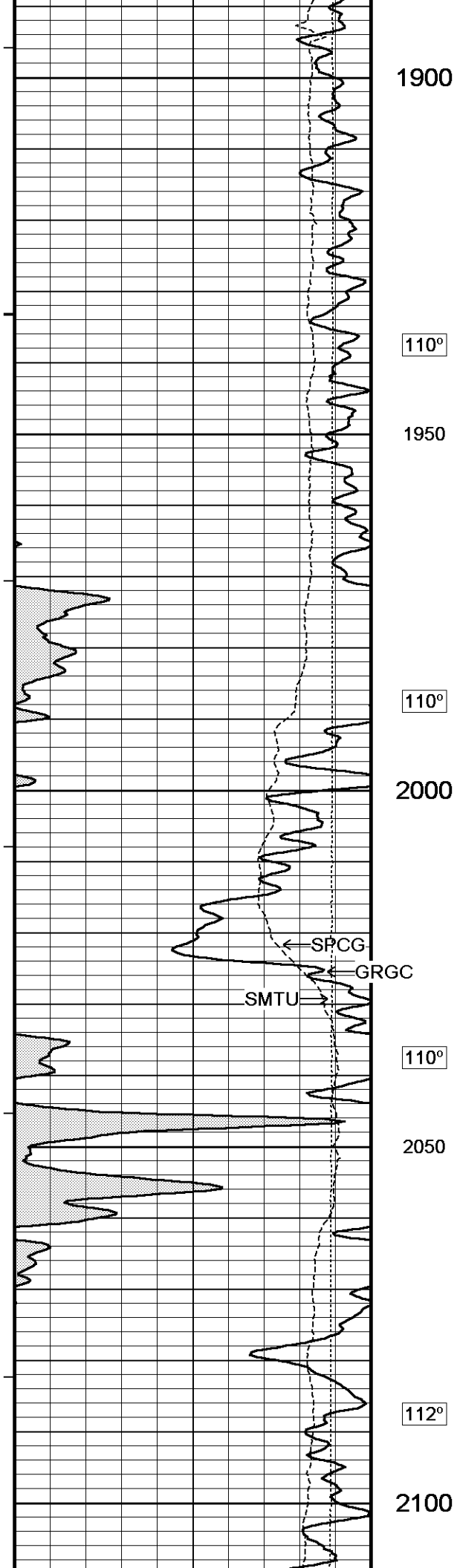
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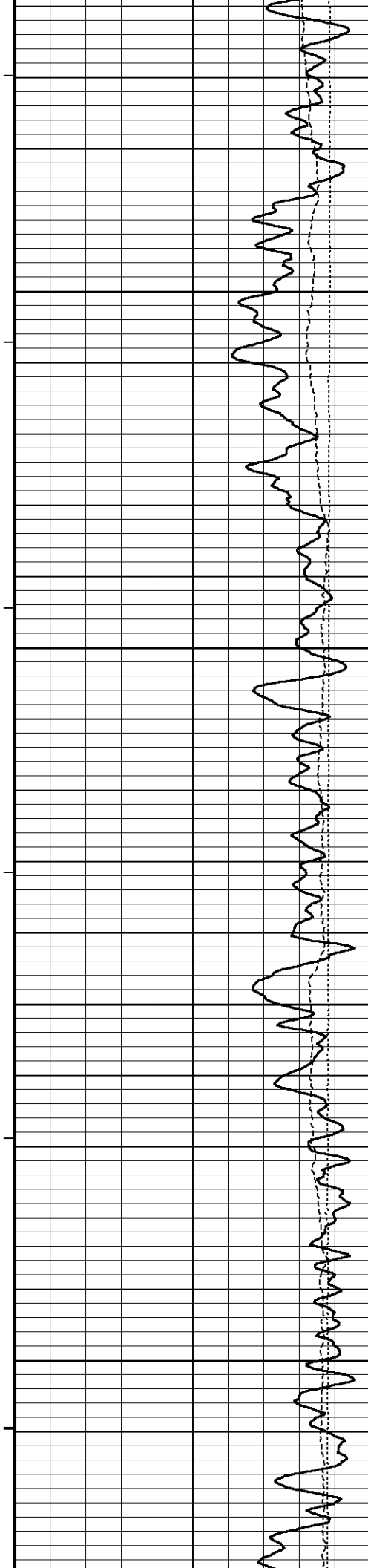
110°

1850

110°







112°

2150

113°

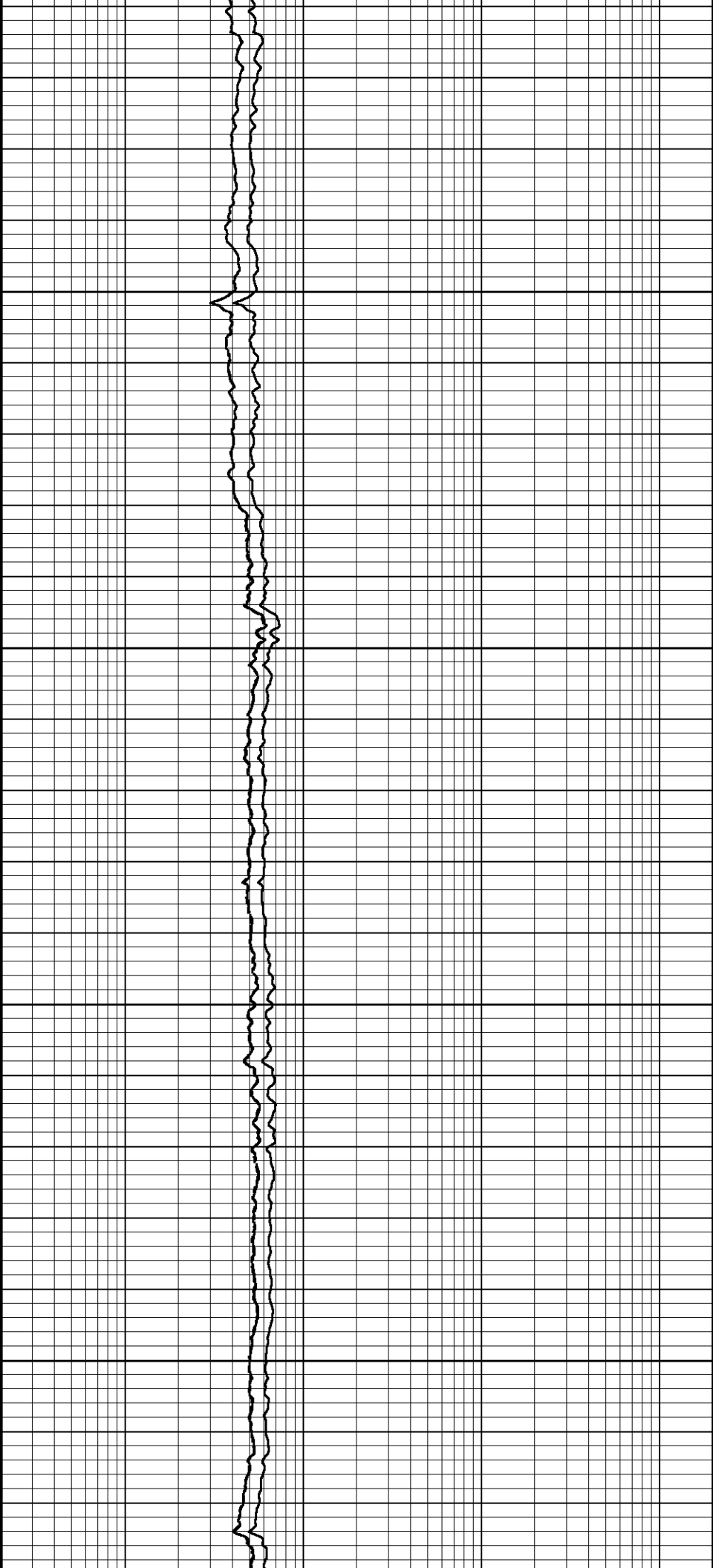
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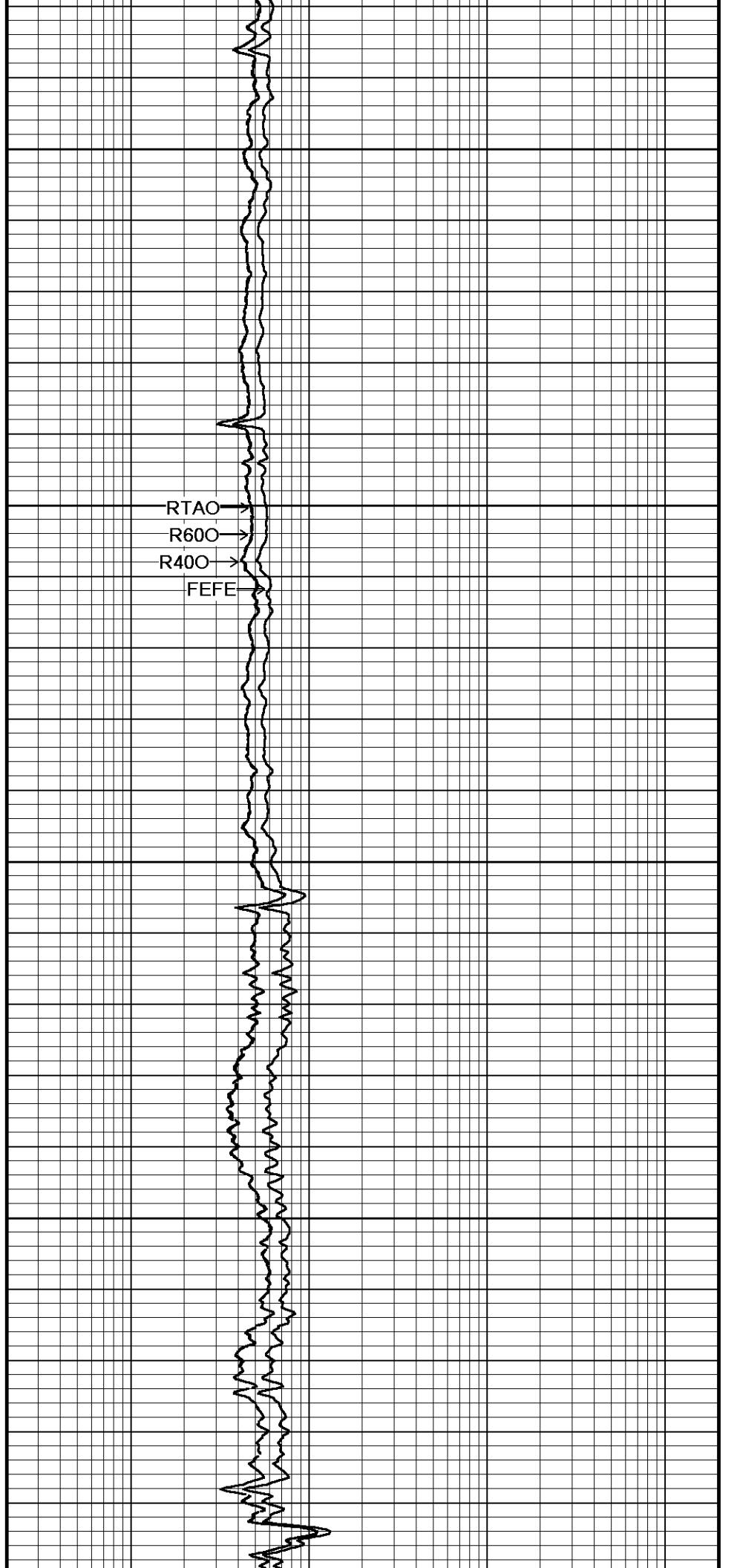
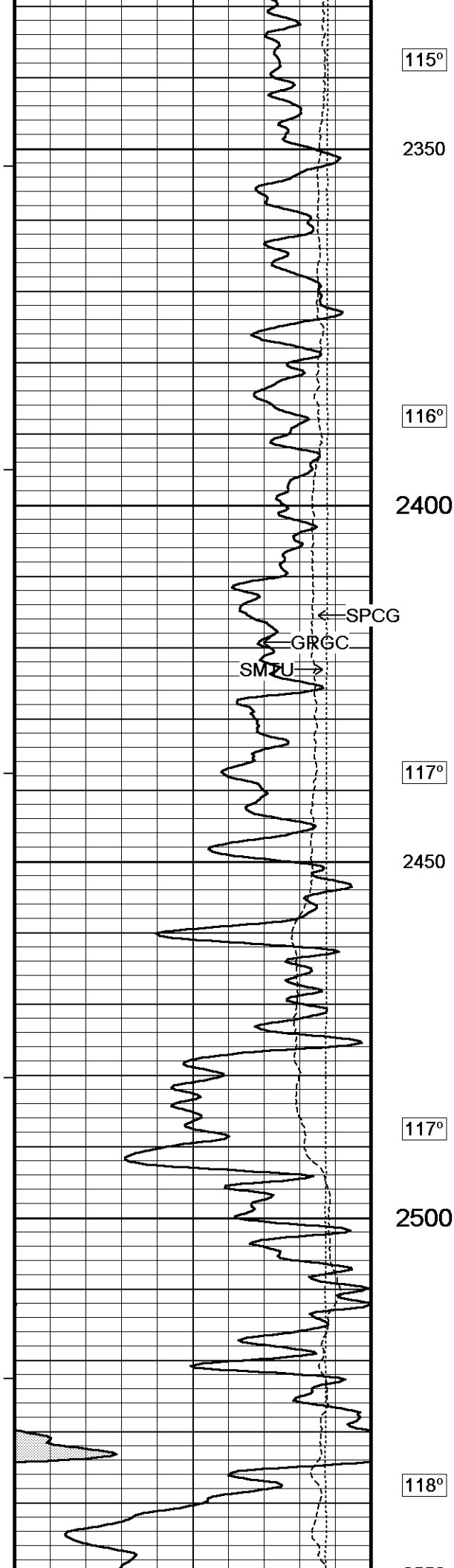
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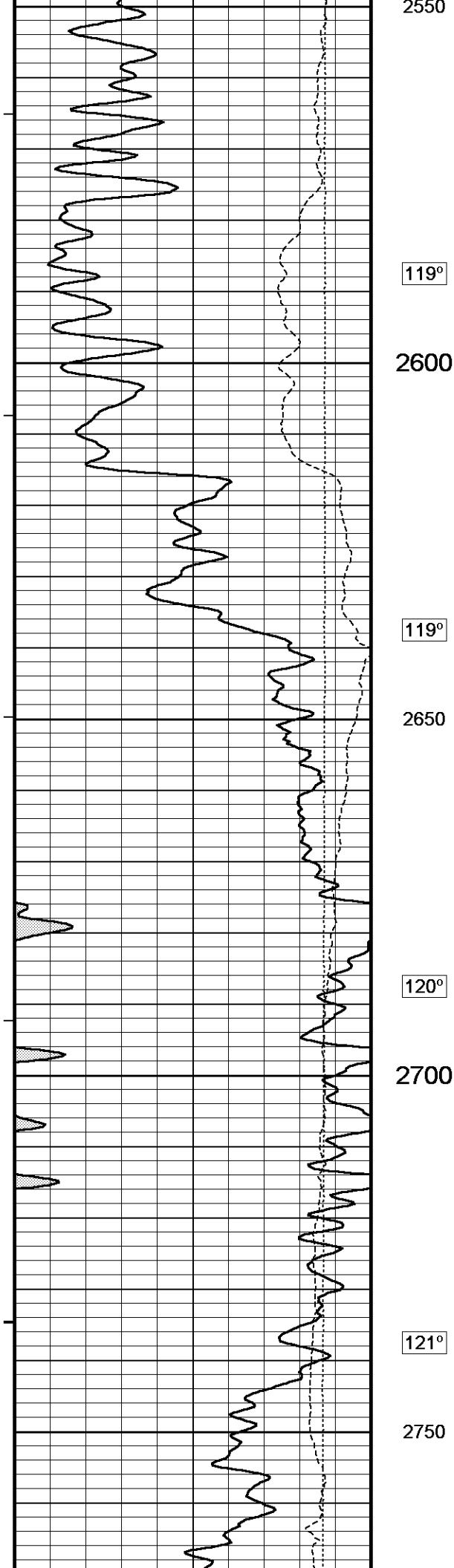
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114°

2300







119°

2600

119°

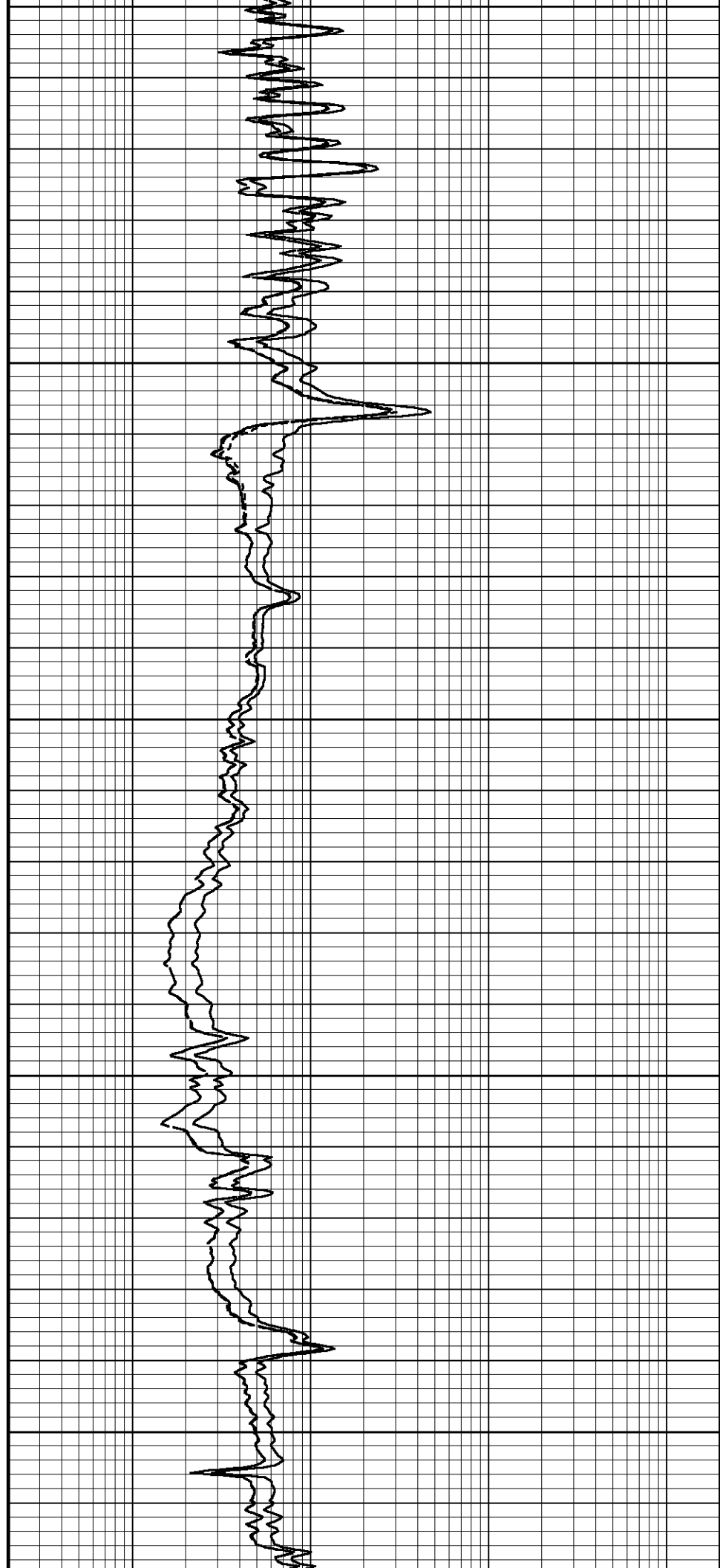
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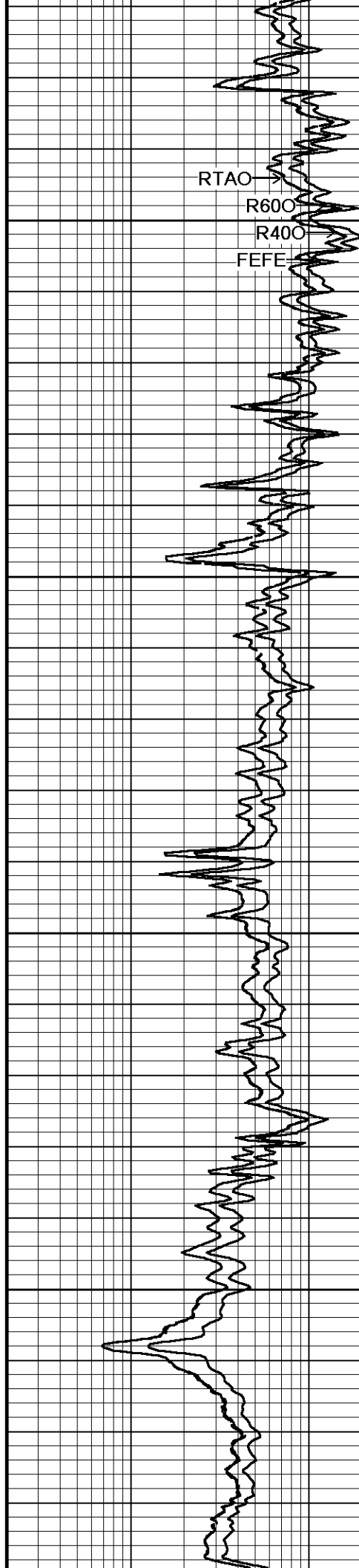
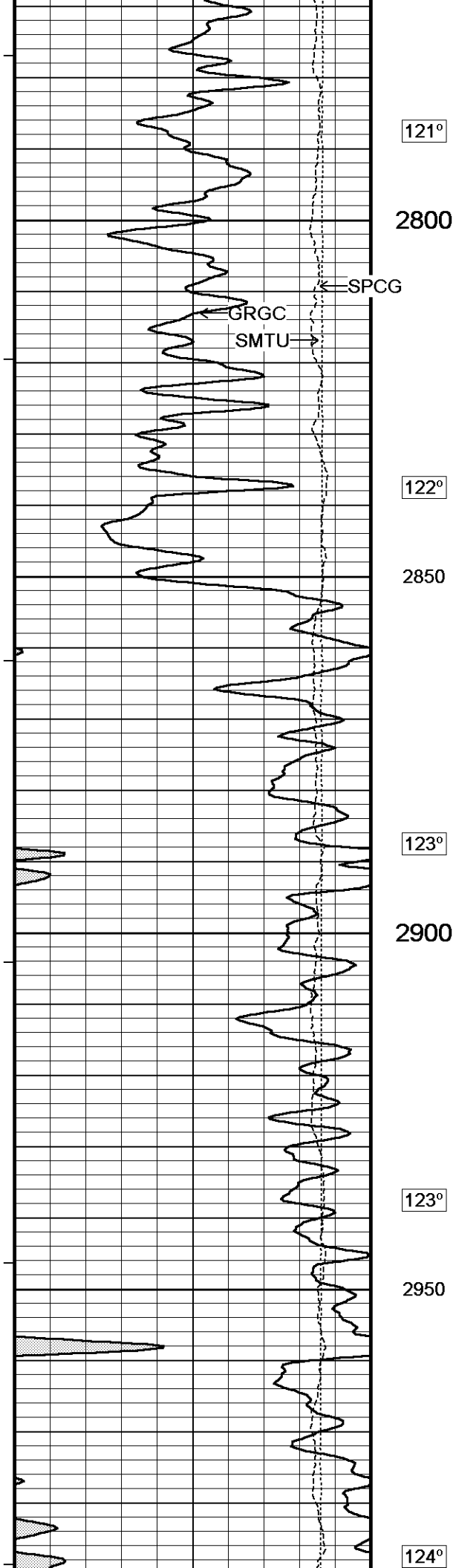
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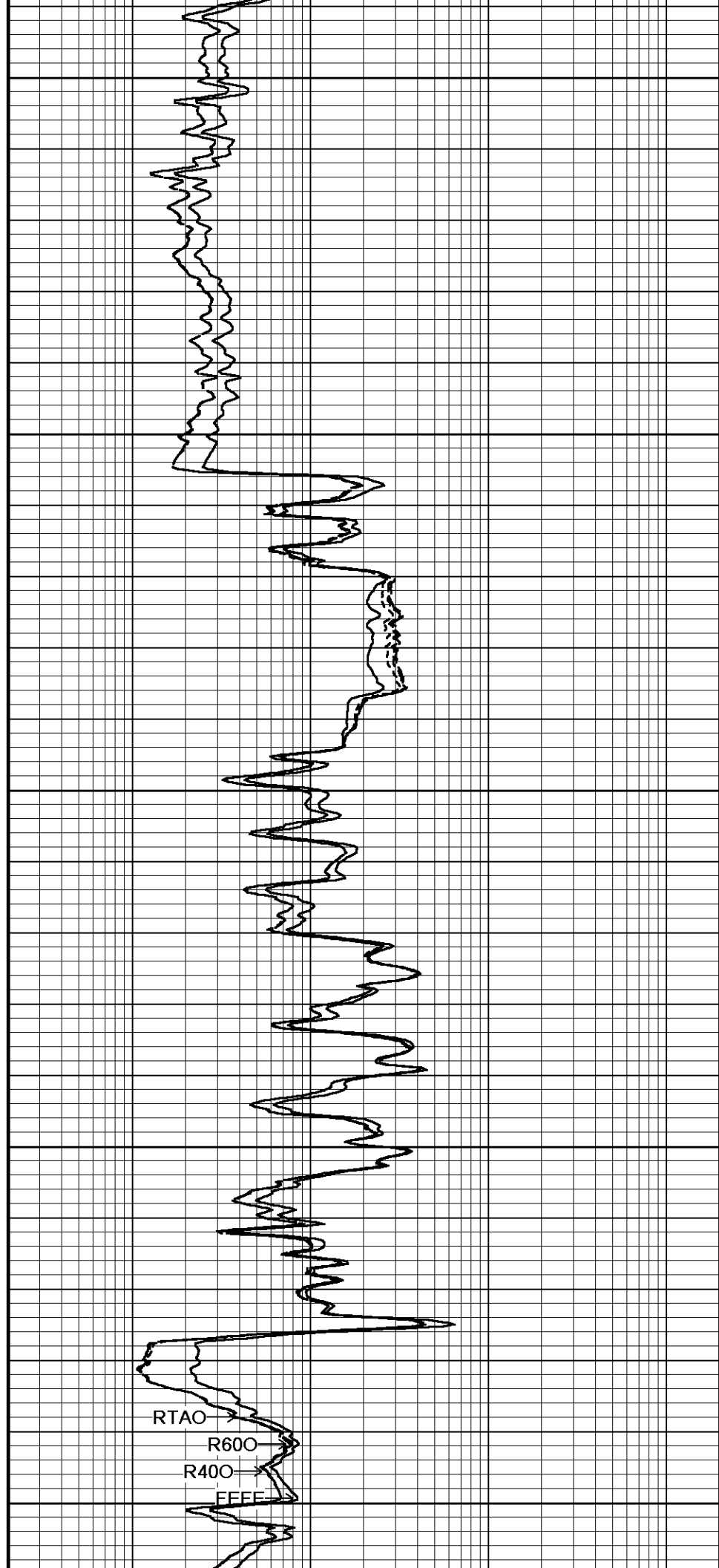
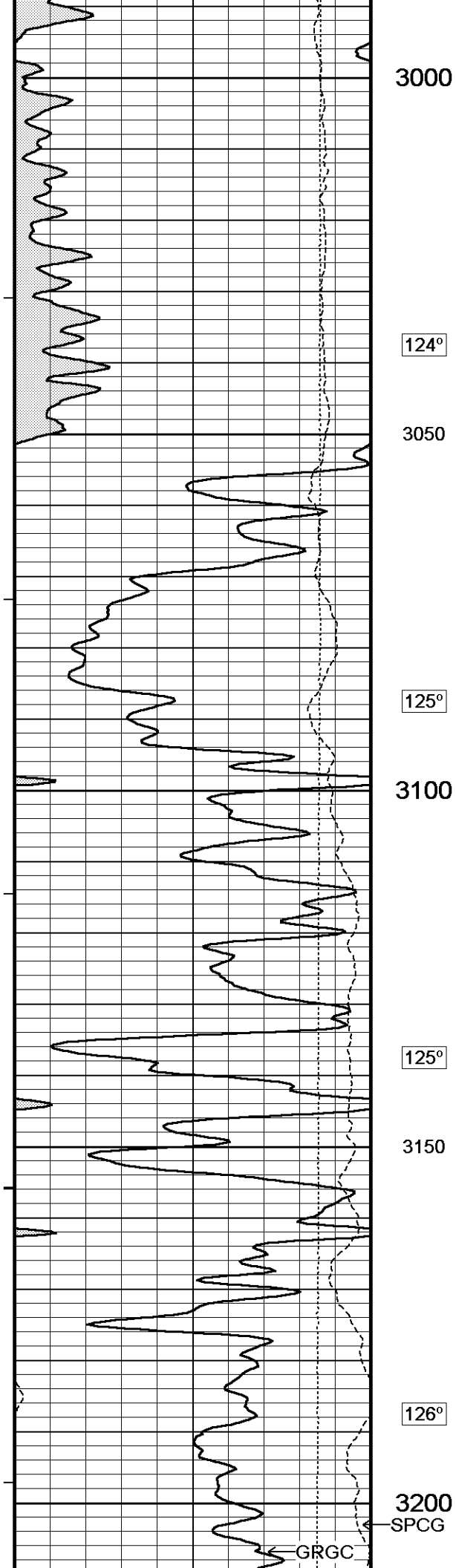
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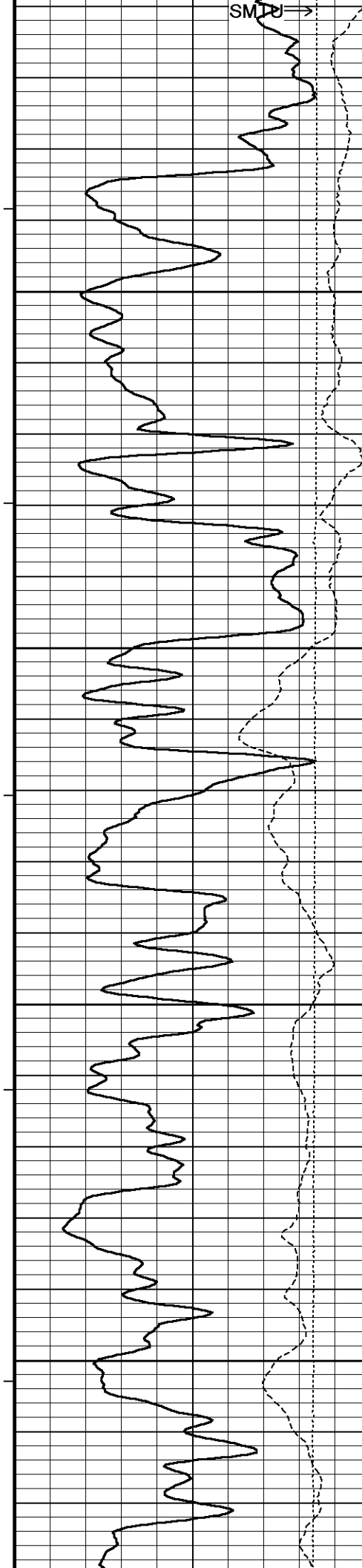
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2750









126°

3250

127°

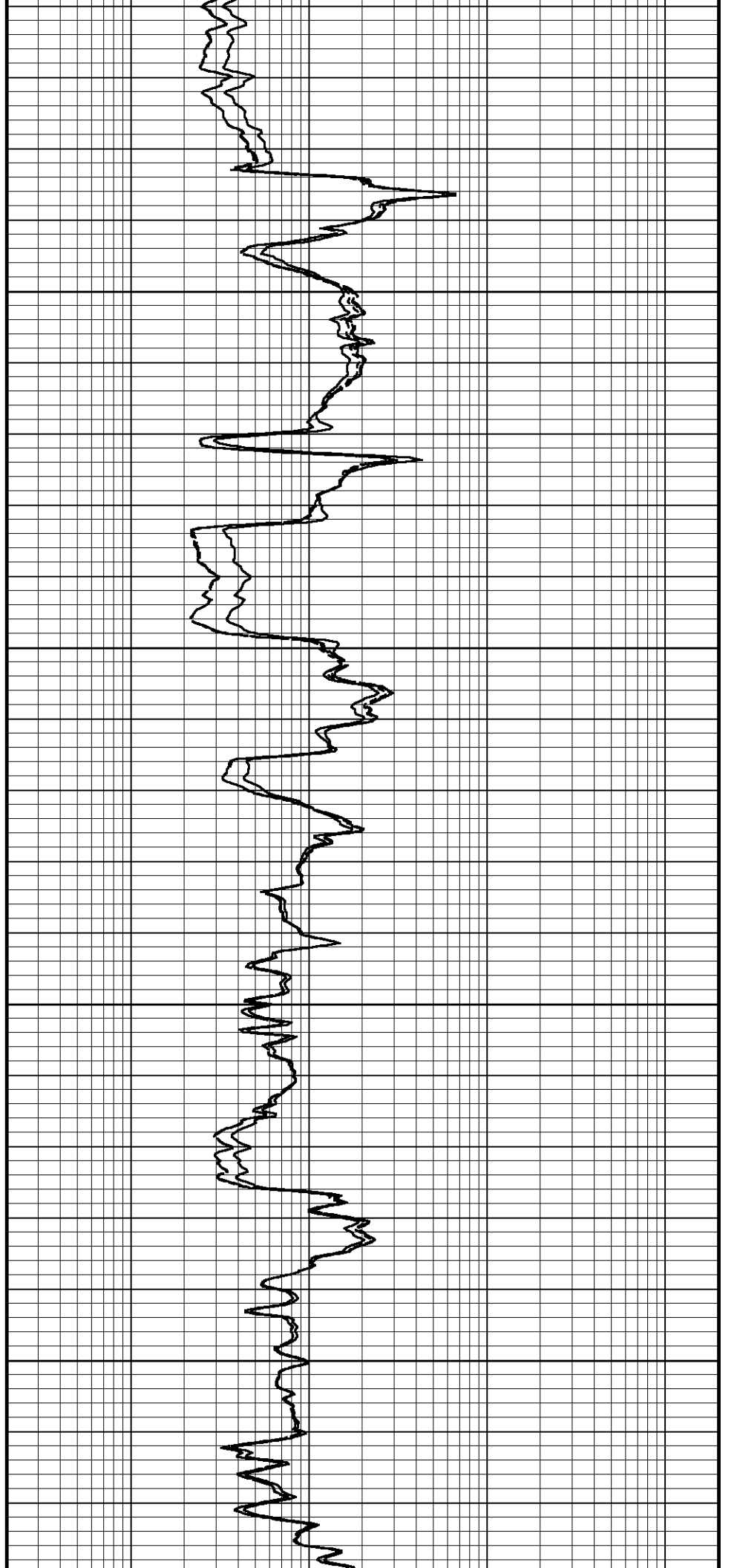
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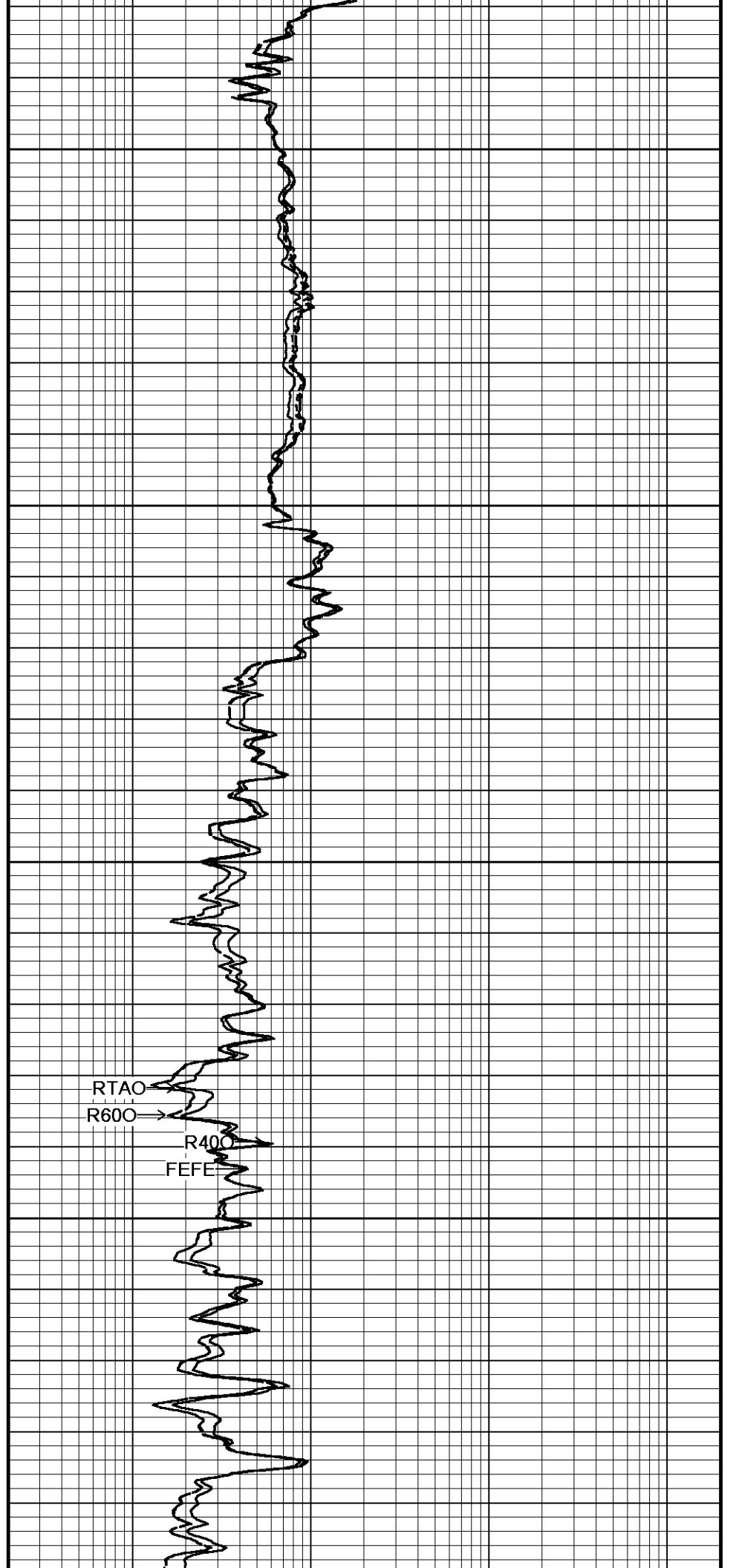
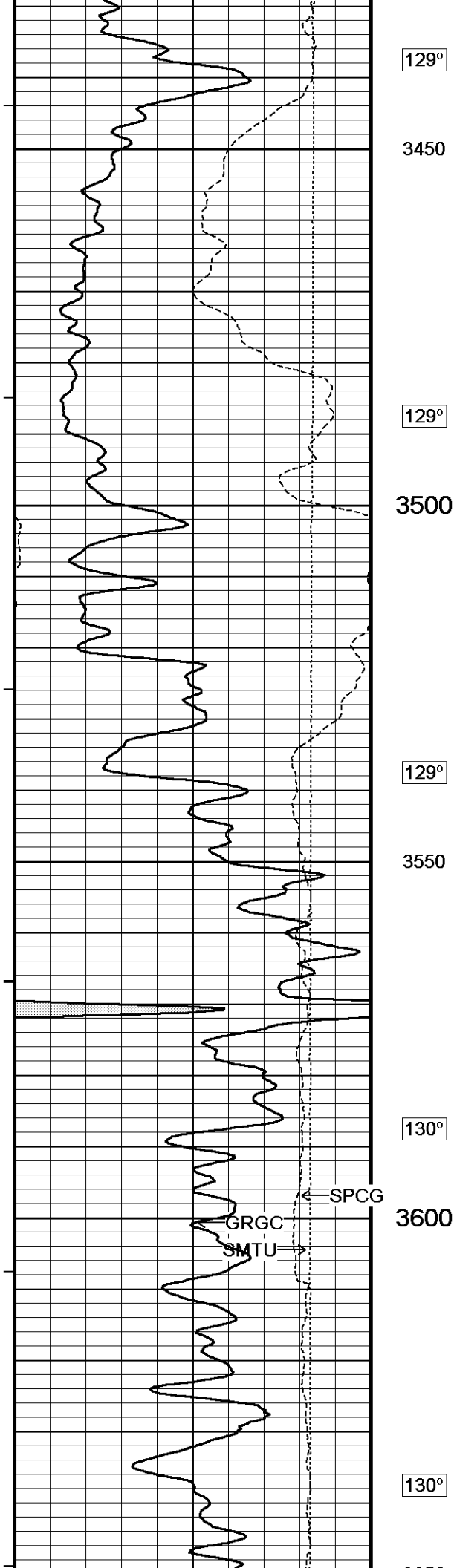
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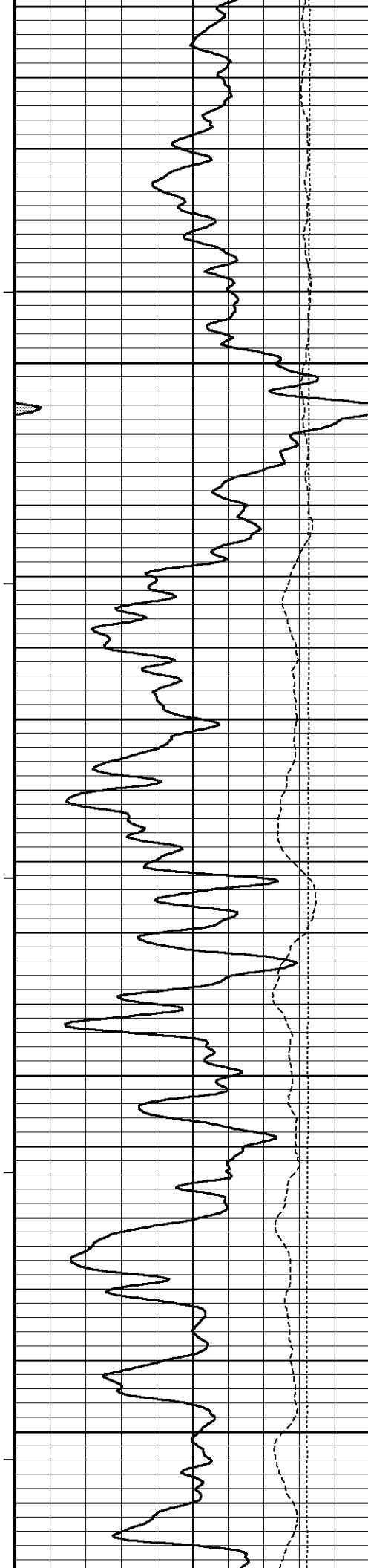
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128°

3400







3650

131°

3700

132°

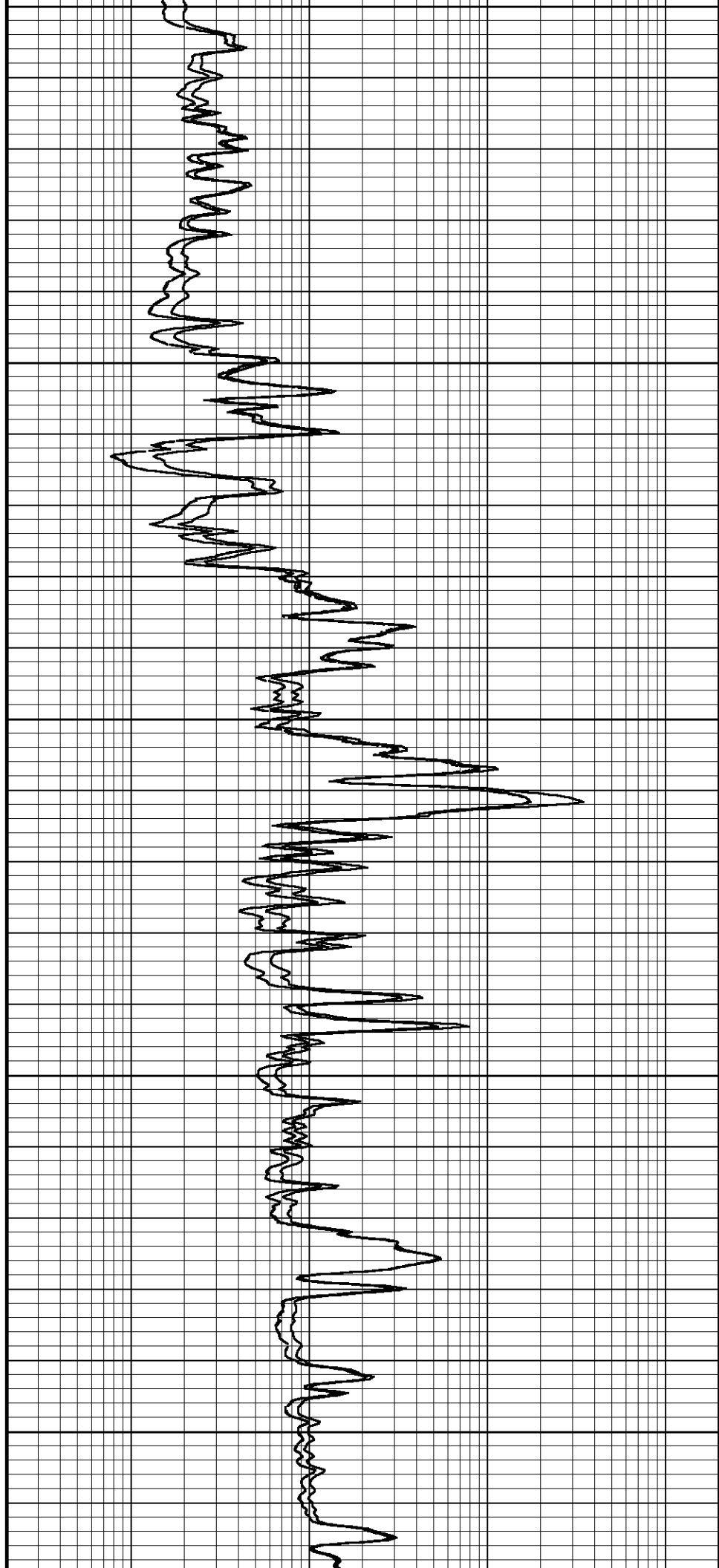
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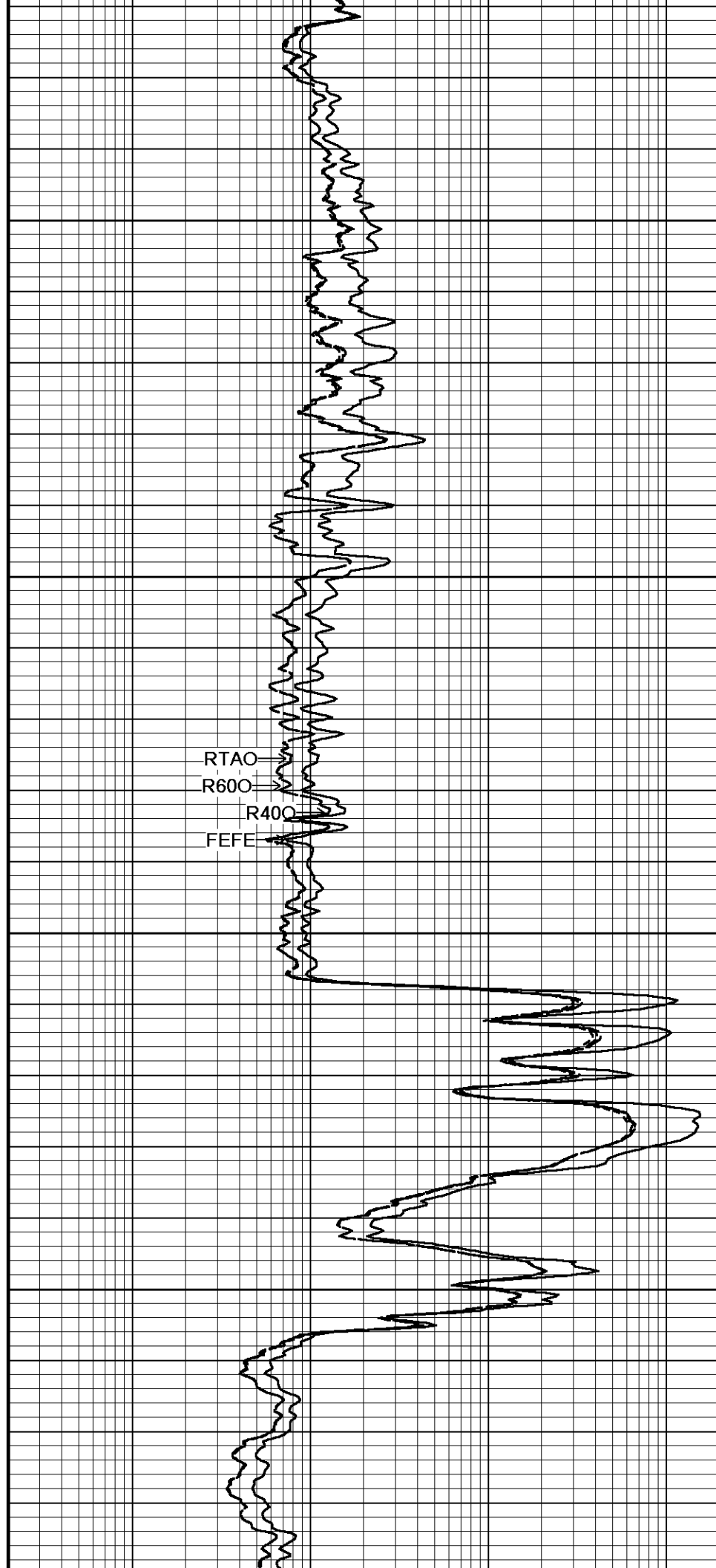
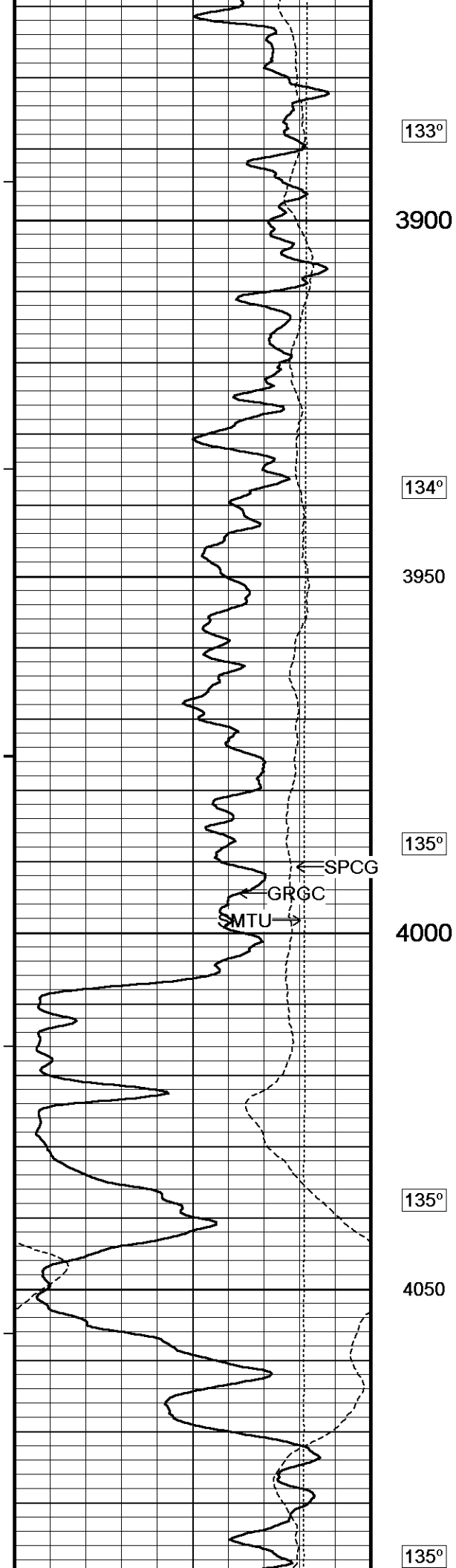
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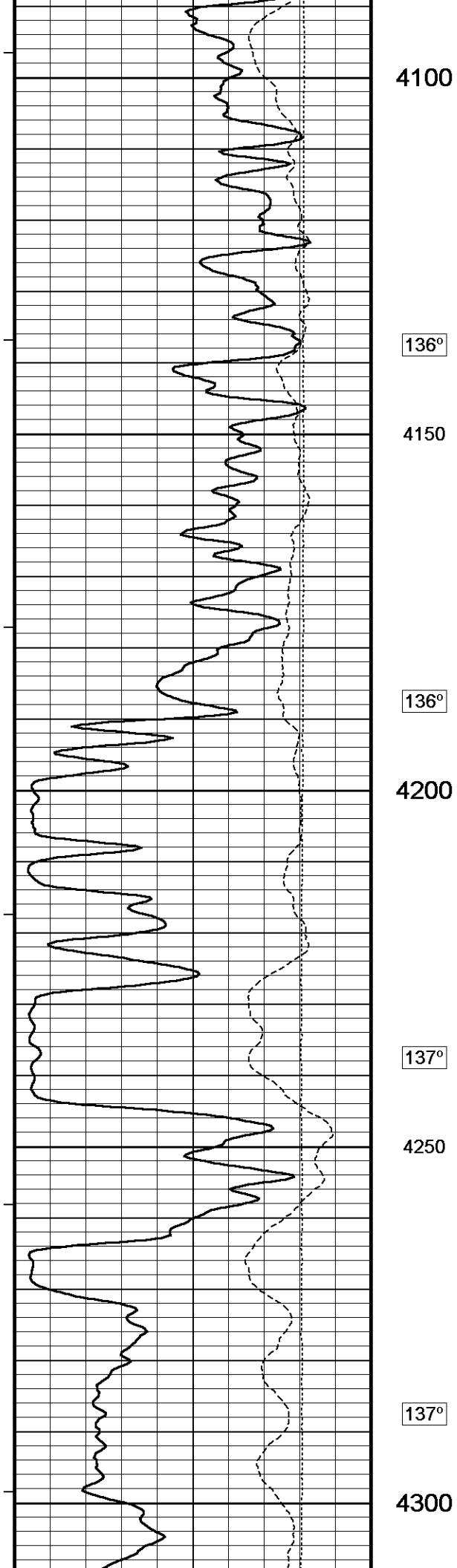
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4150

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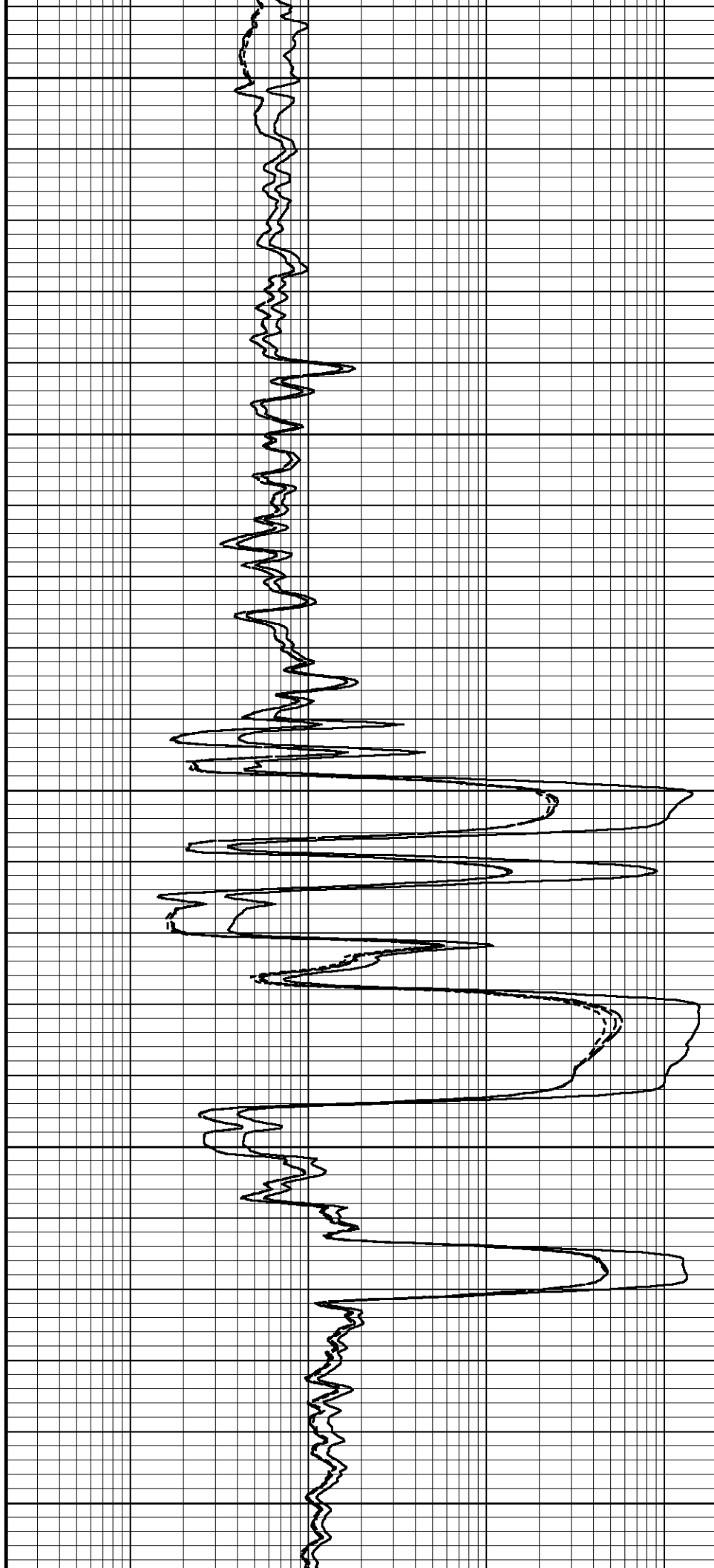
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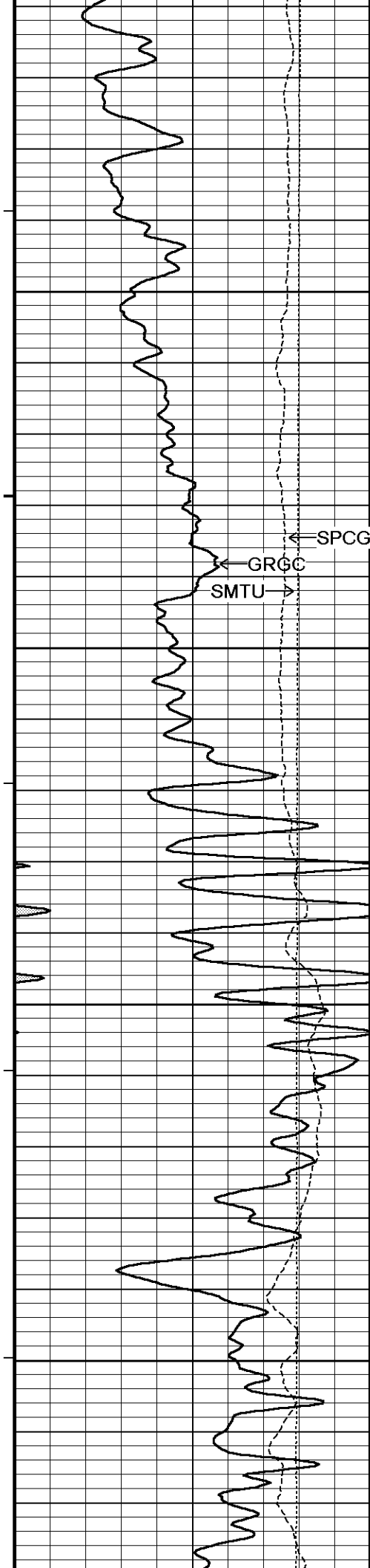
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137°

4300





138°

4350

138°

4400

139°

4450

139°

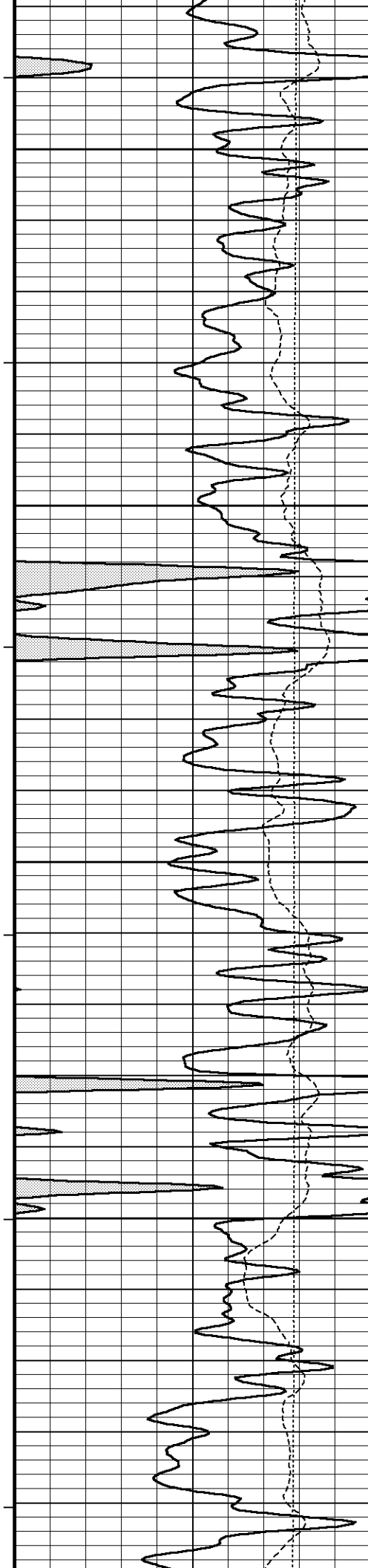
4500

RTAO

R600

R400

FEFE



139°

4550

140°

4600

140°

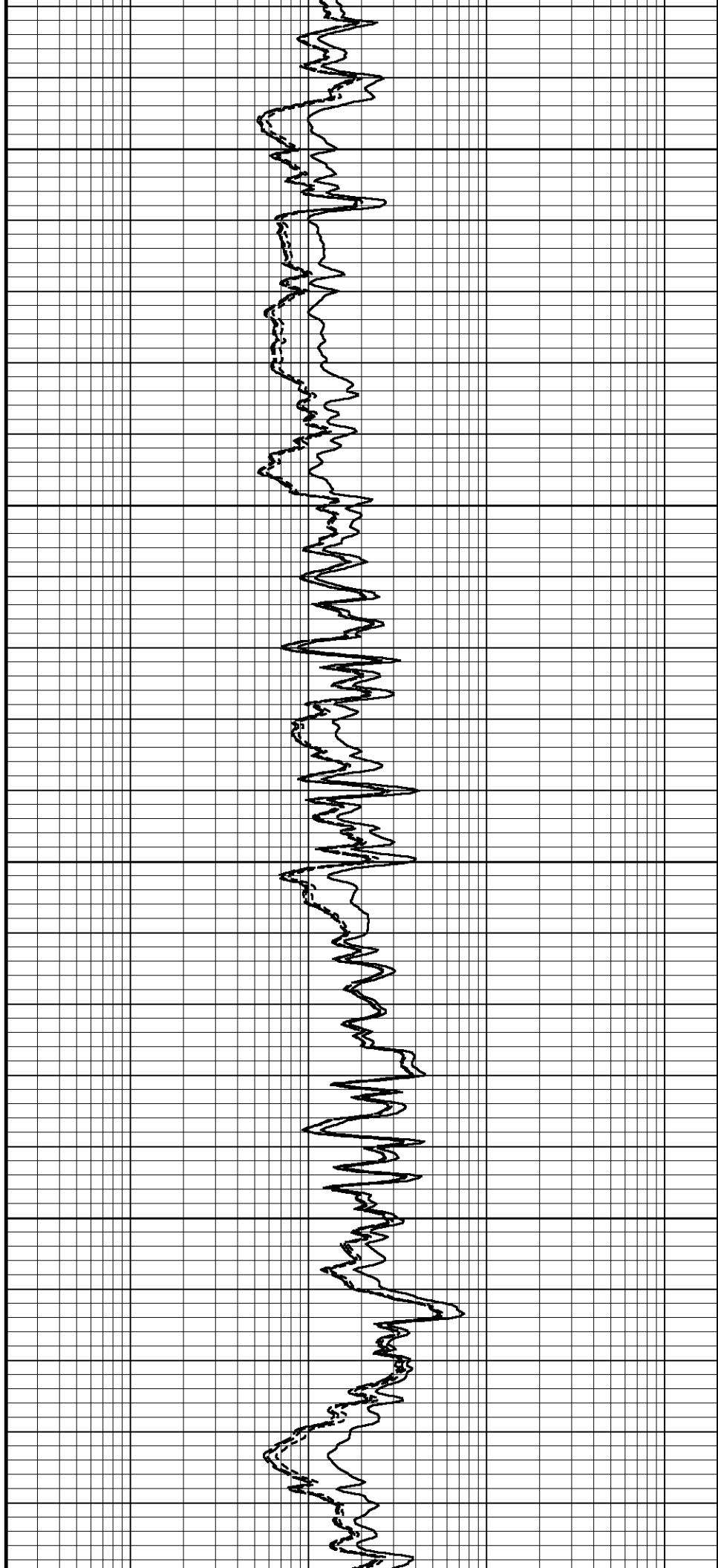
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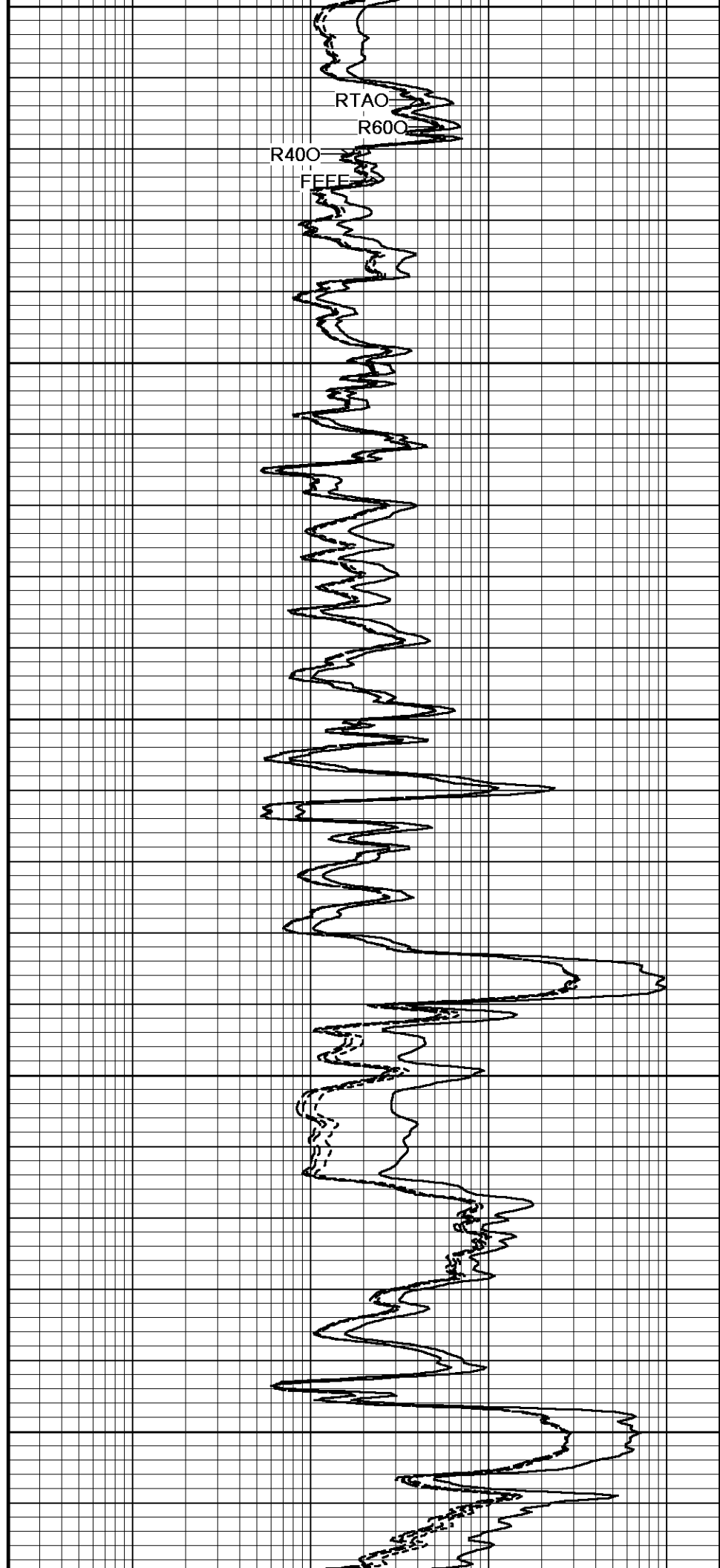
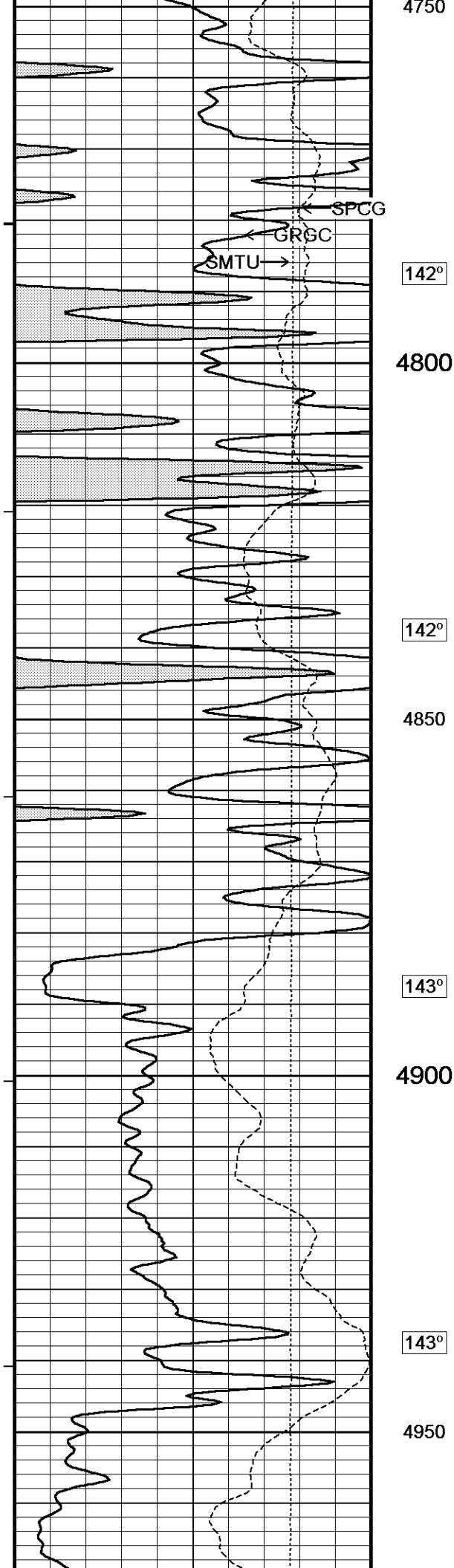
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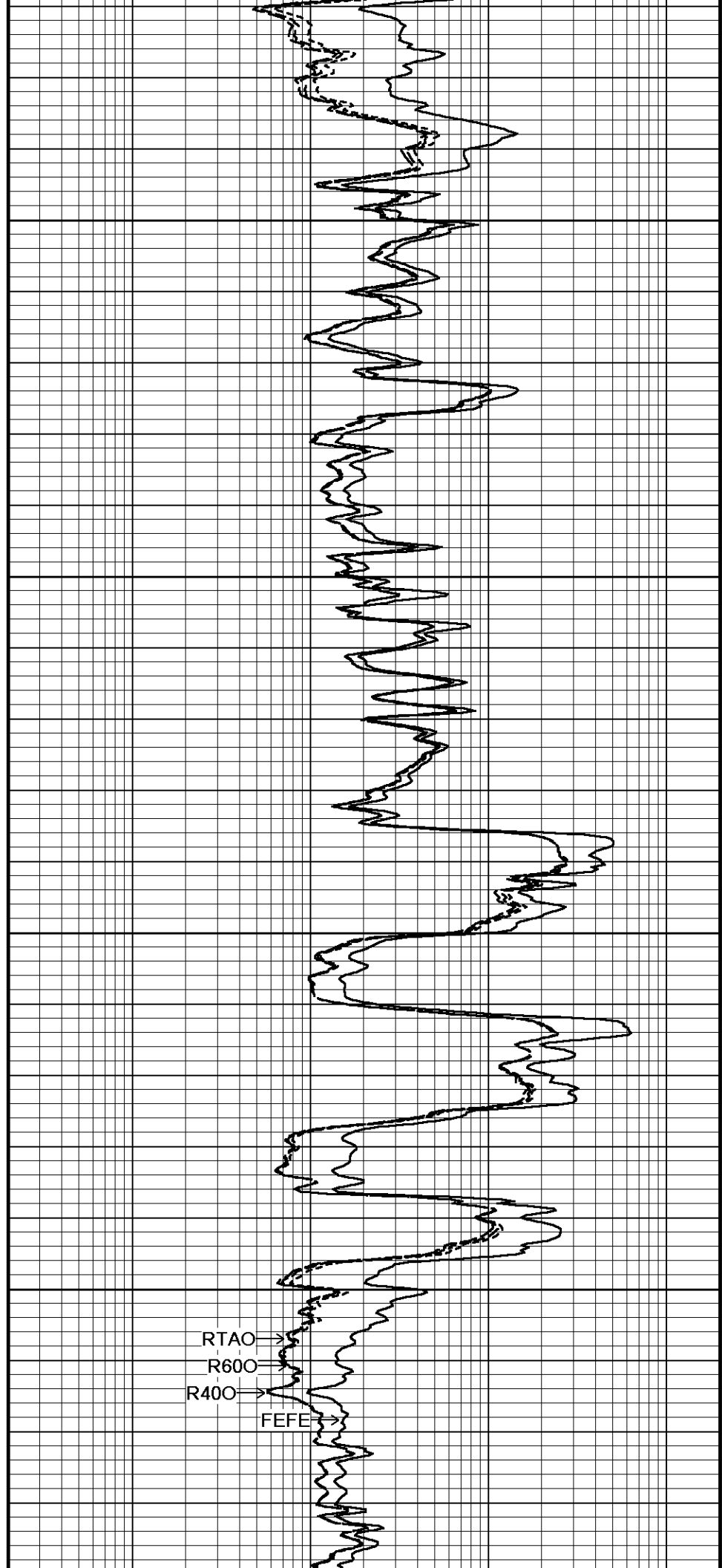
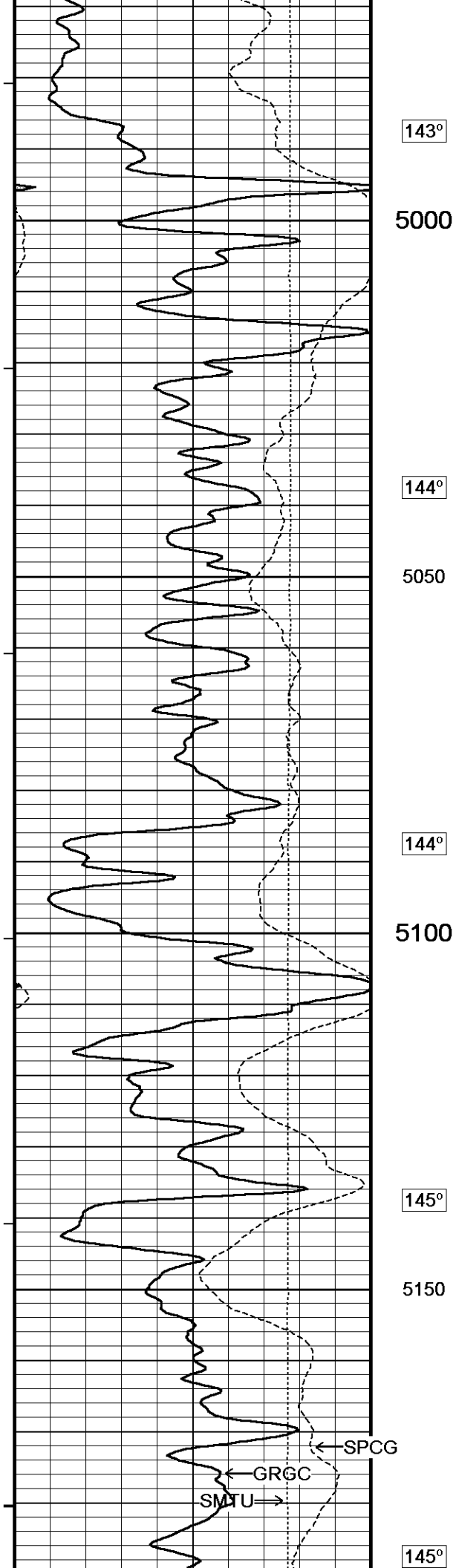
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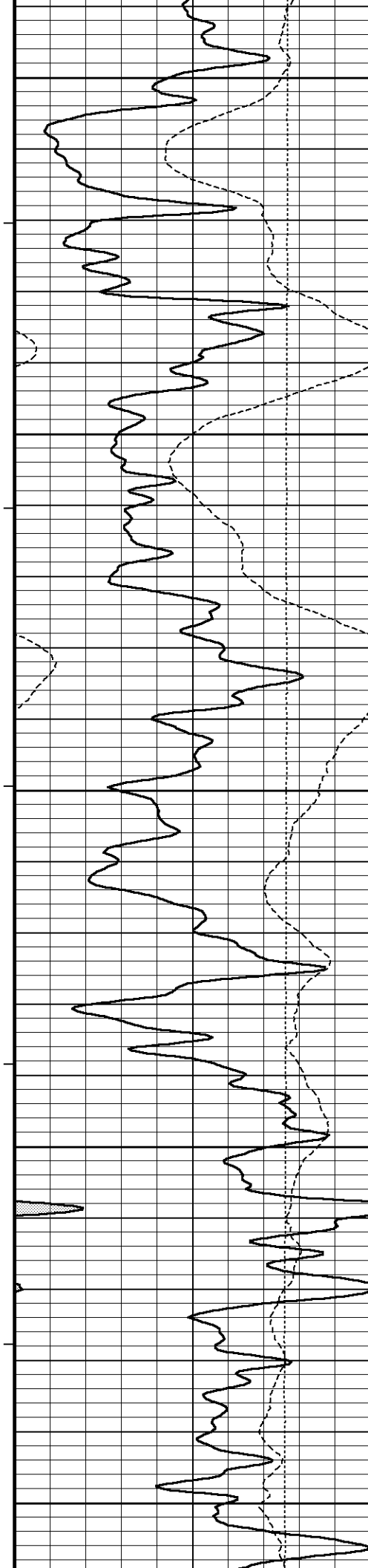
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4750









5200

146°

5250

147°

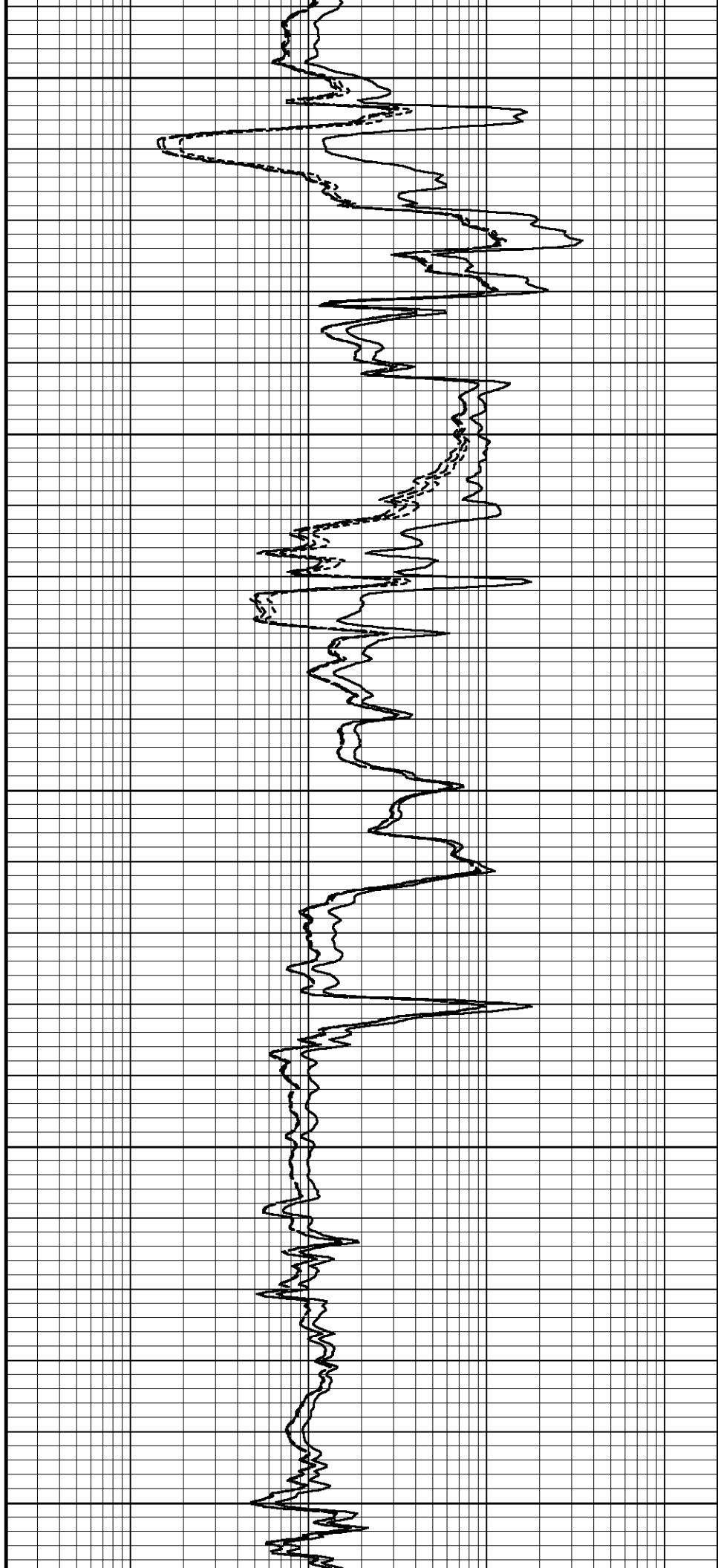
5300

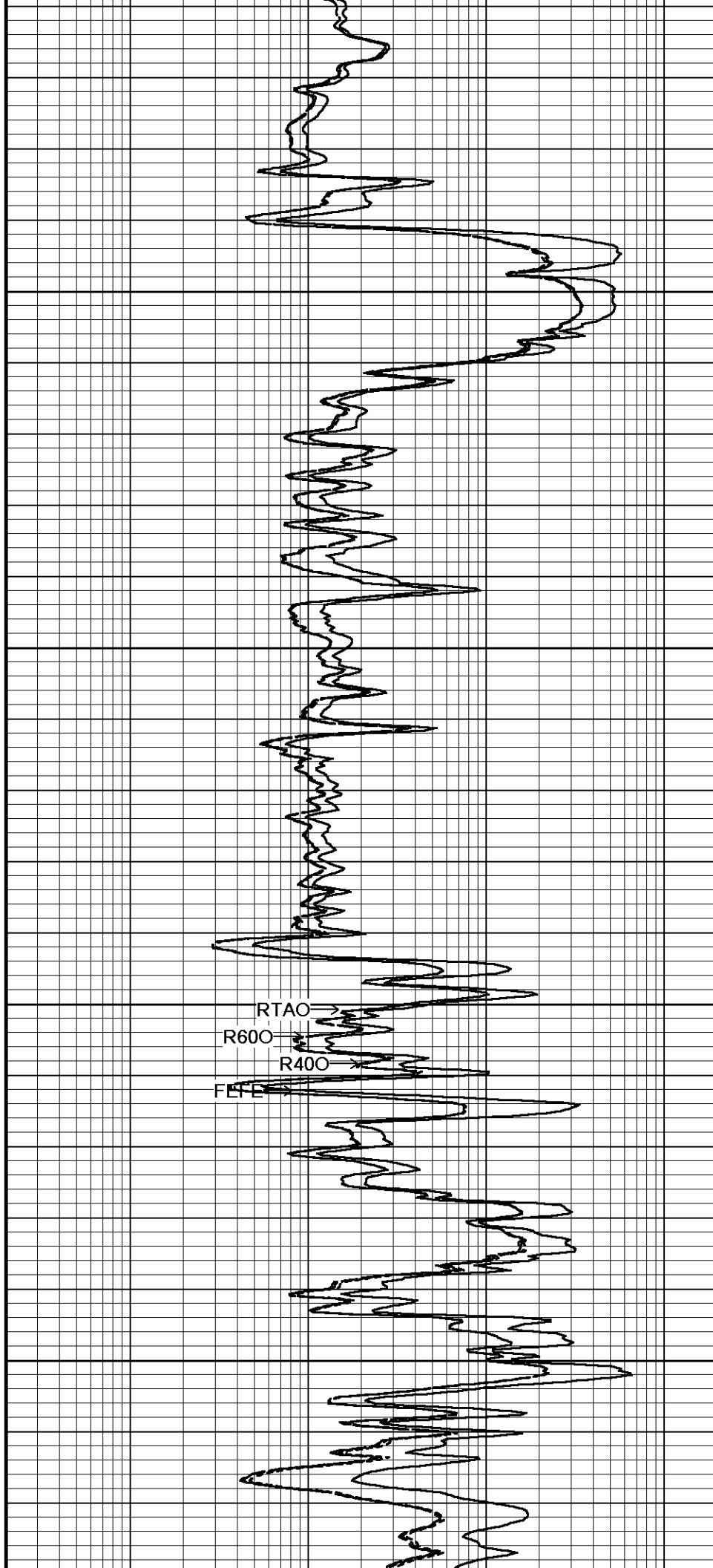
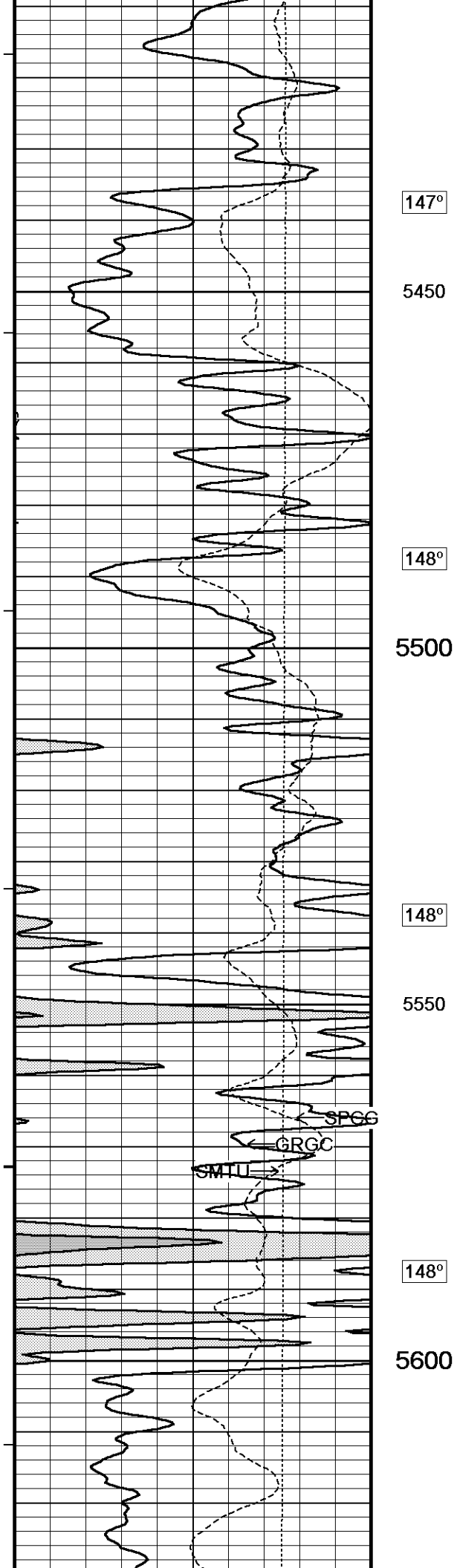
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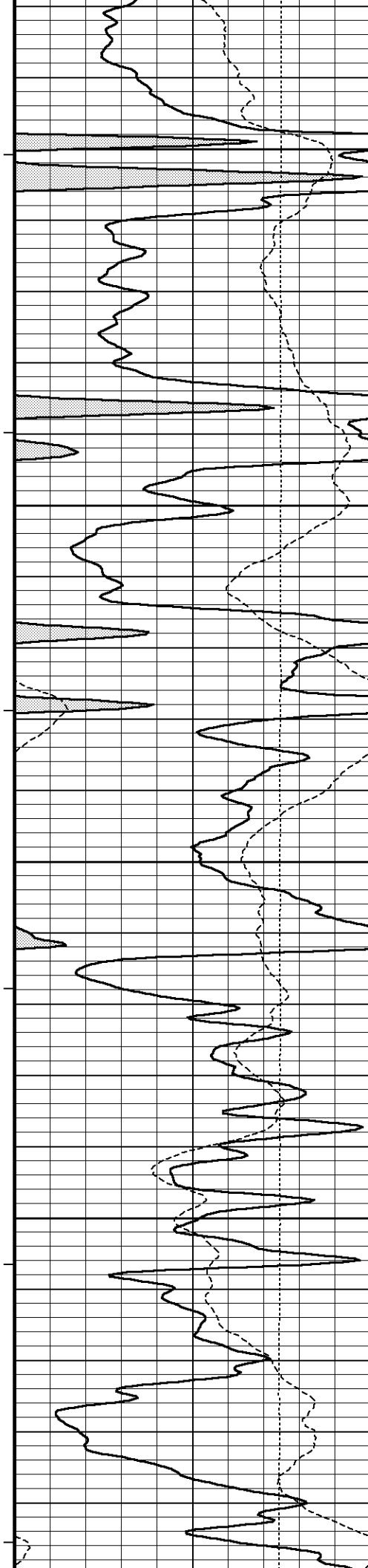
5350

147°

5400







149°

5650

150°

5700

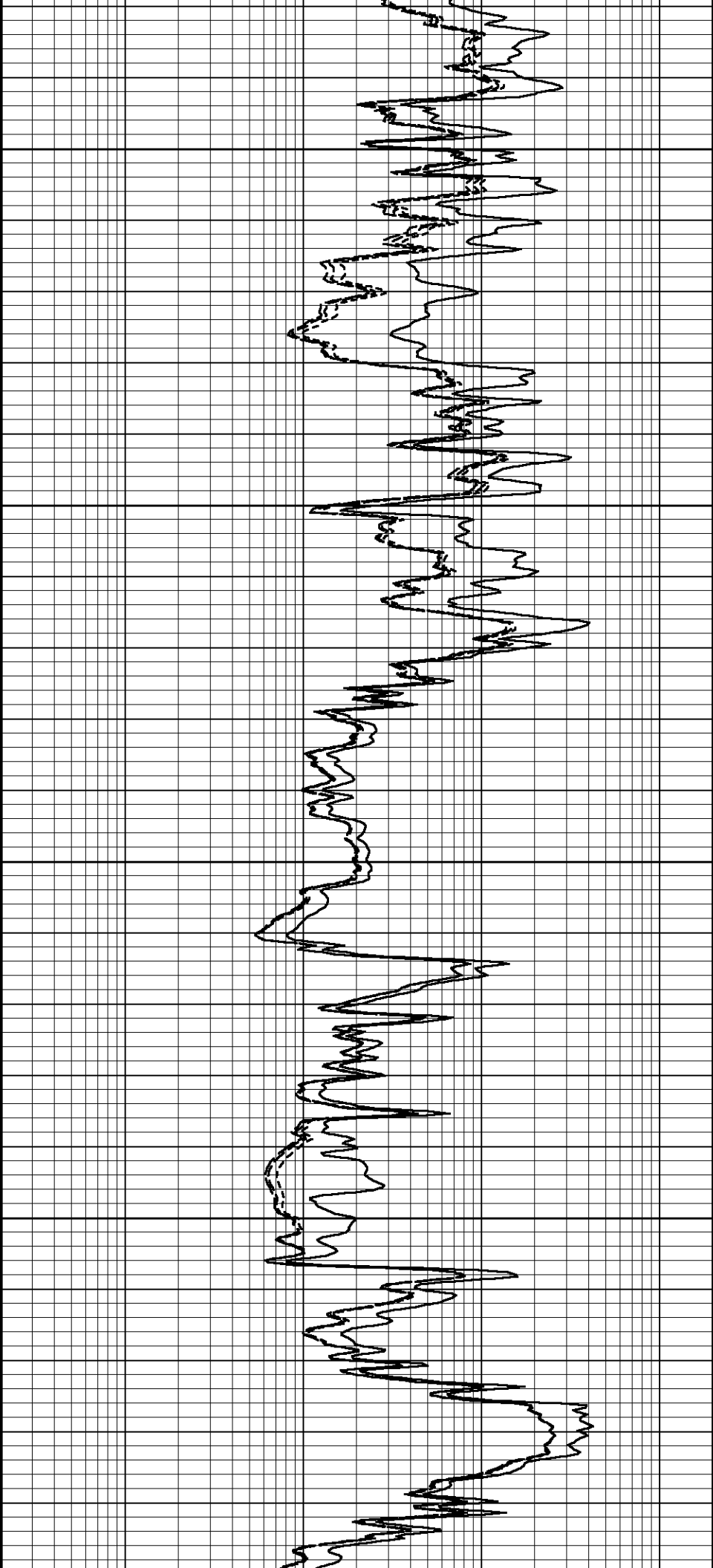
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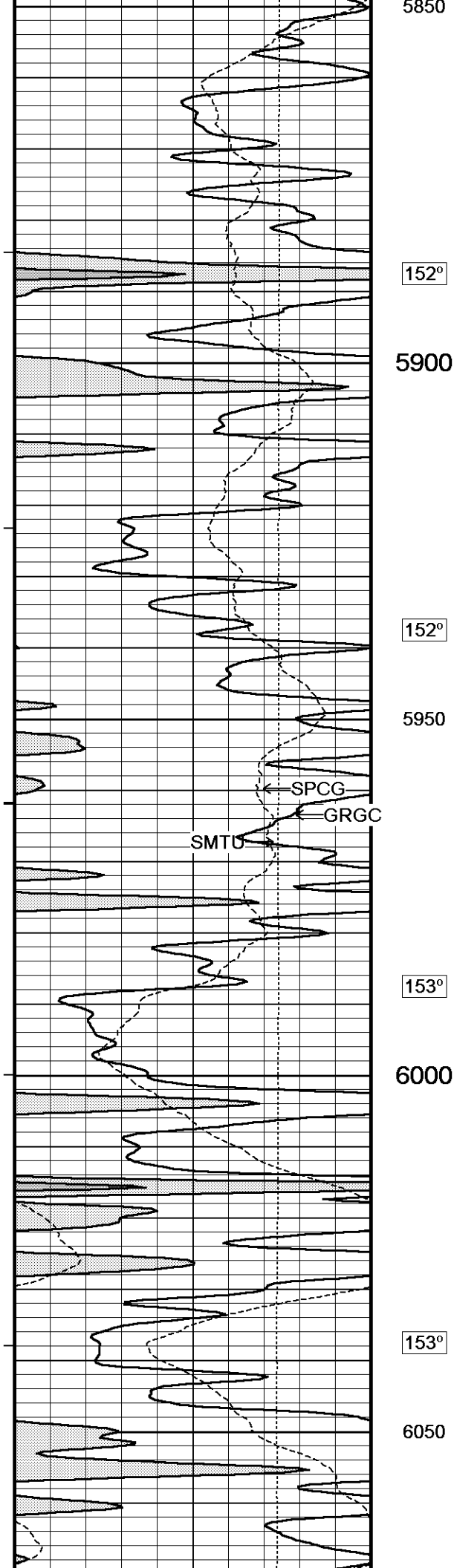
5750

151°

5800

151°





5850

152°

5900

152°

5950

SPCG

GRGC

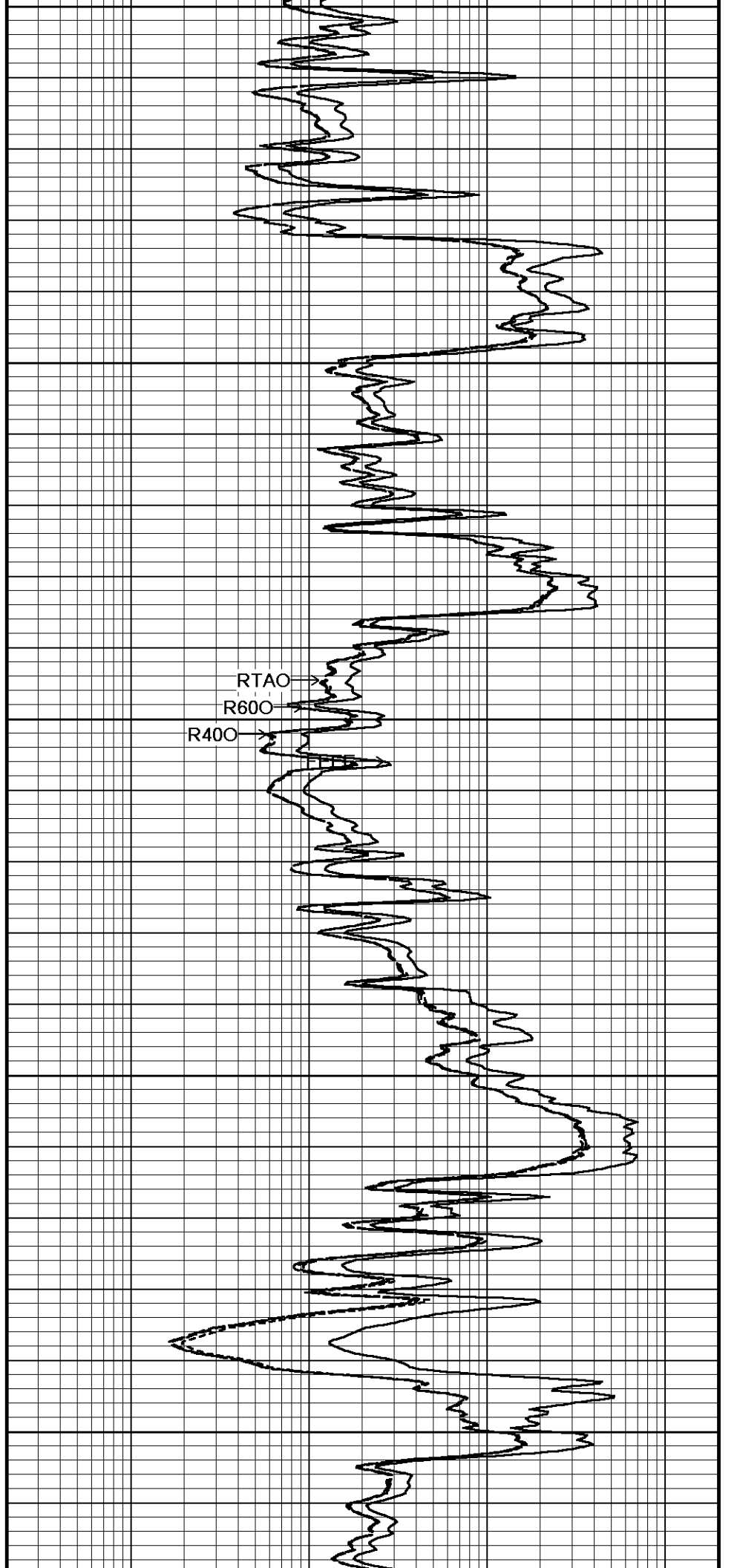
SMTU

153°

6000

153°

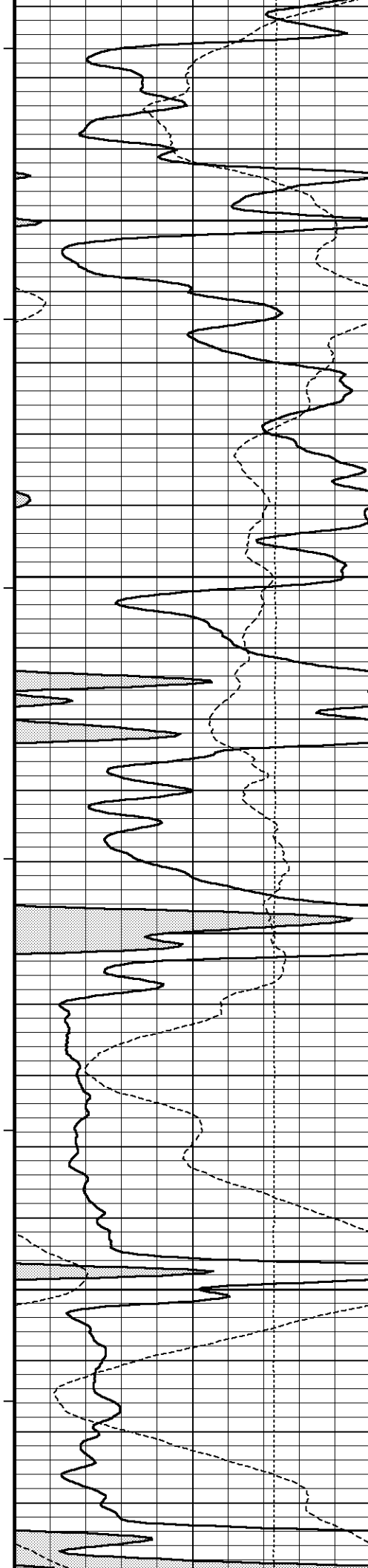
6050



RTAO

R600

R400



153°

6100

154°

6150

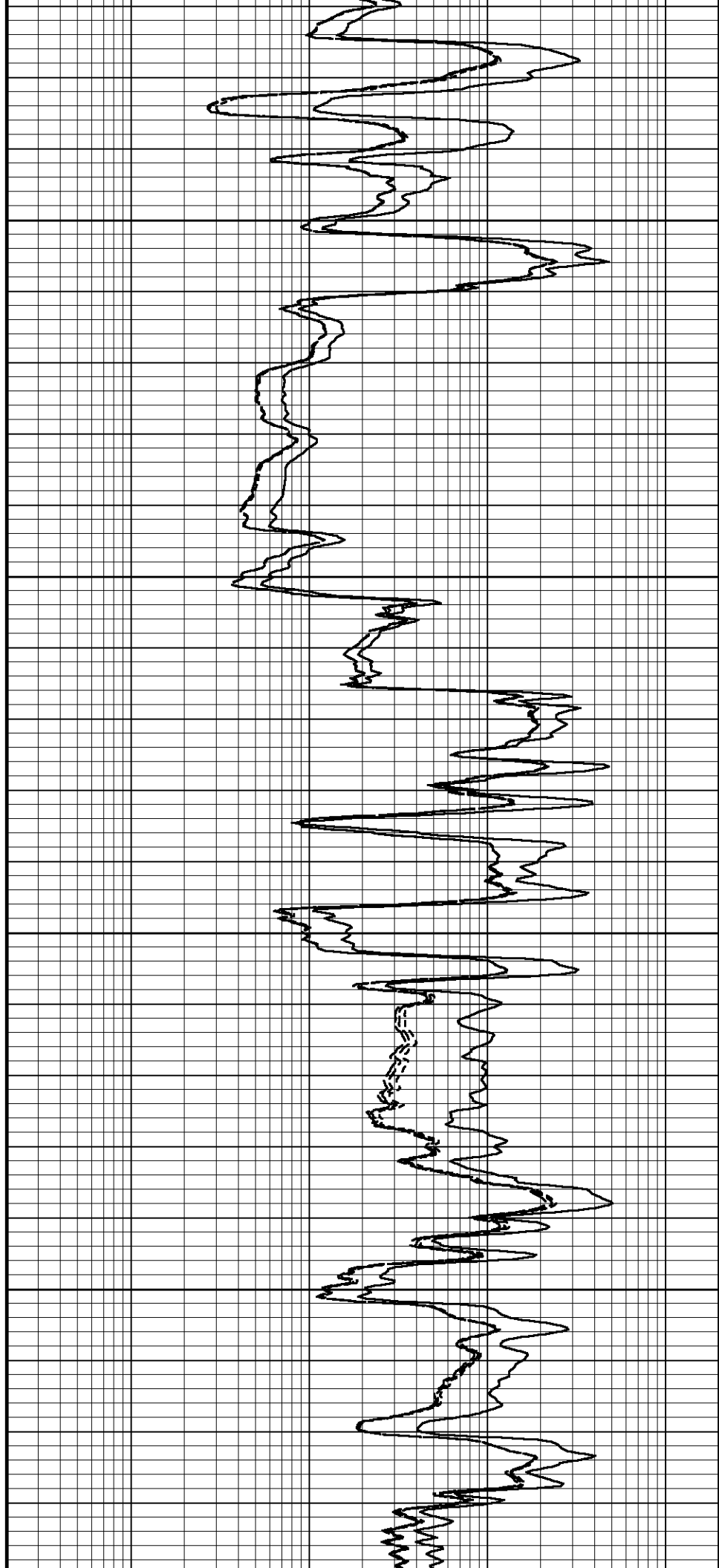
155°

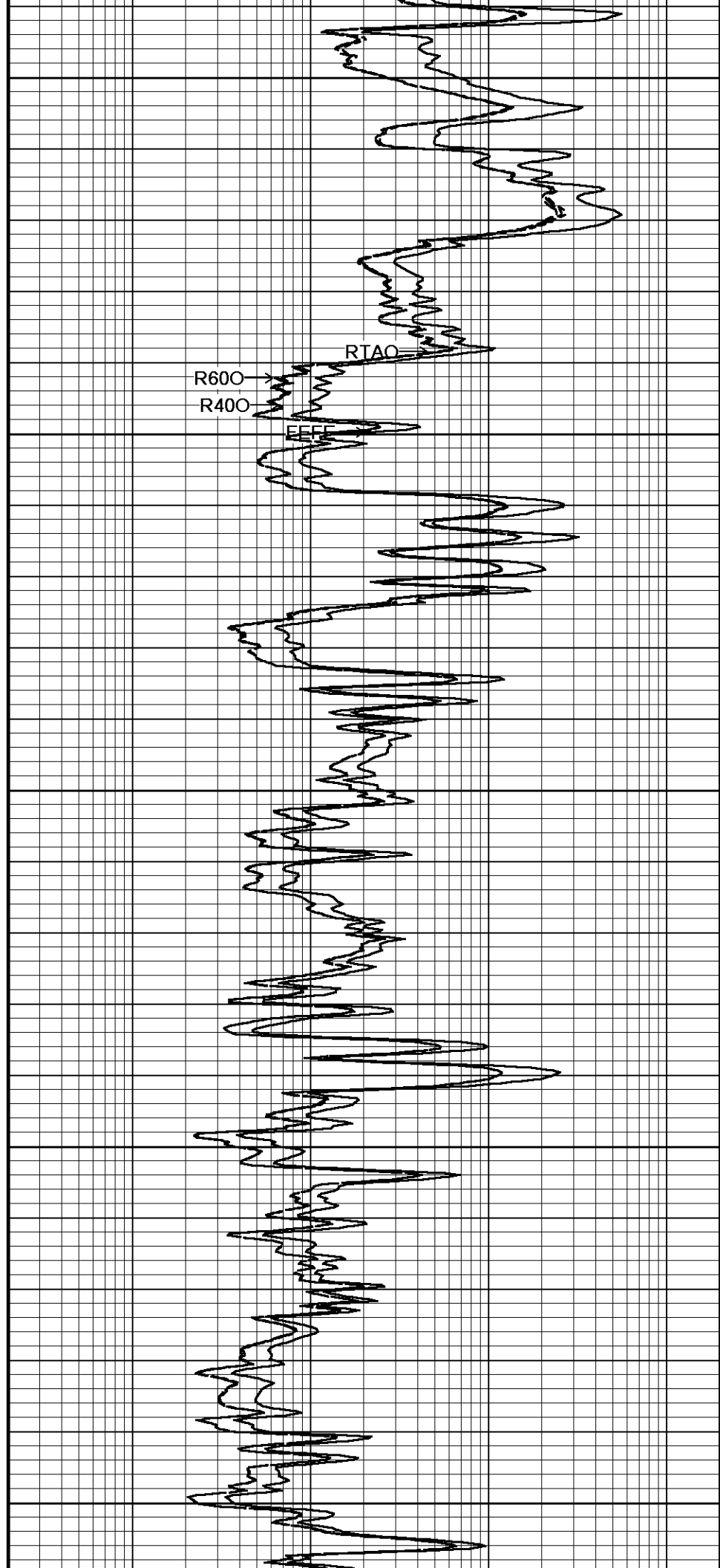
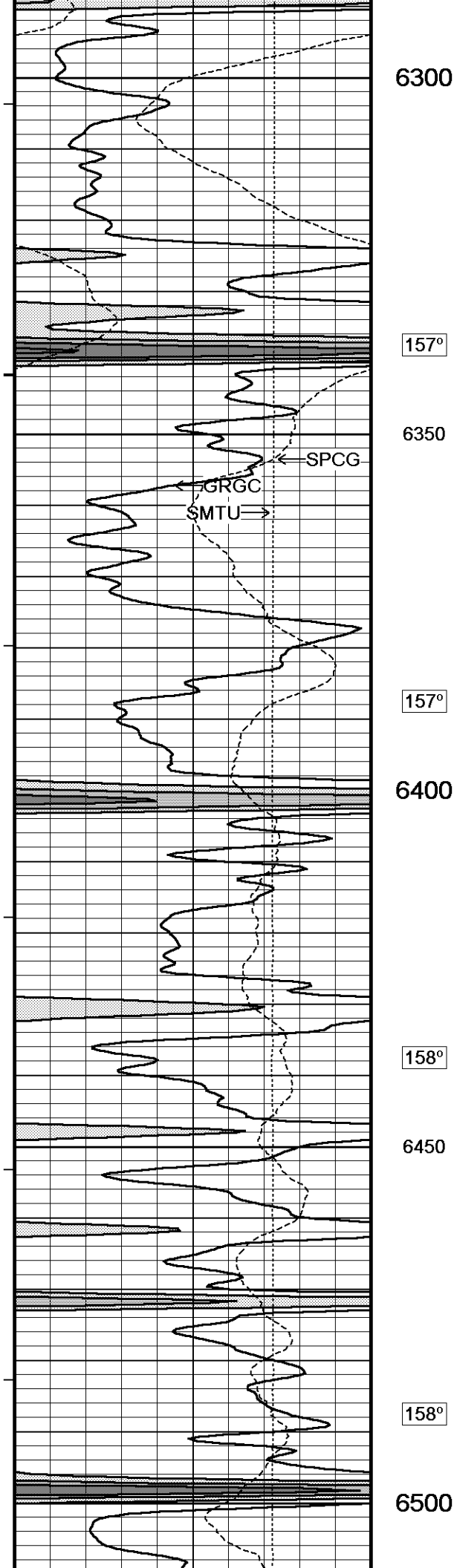
6200

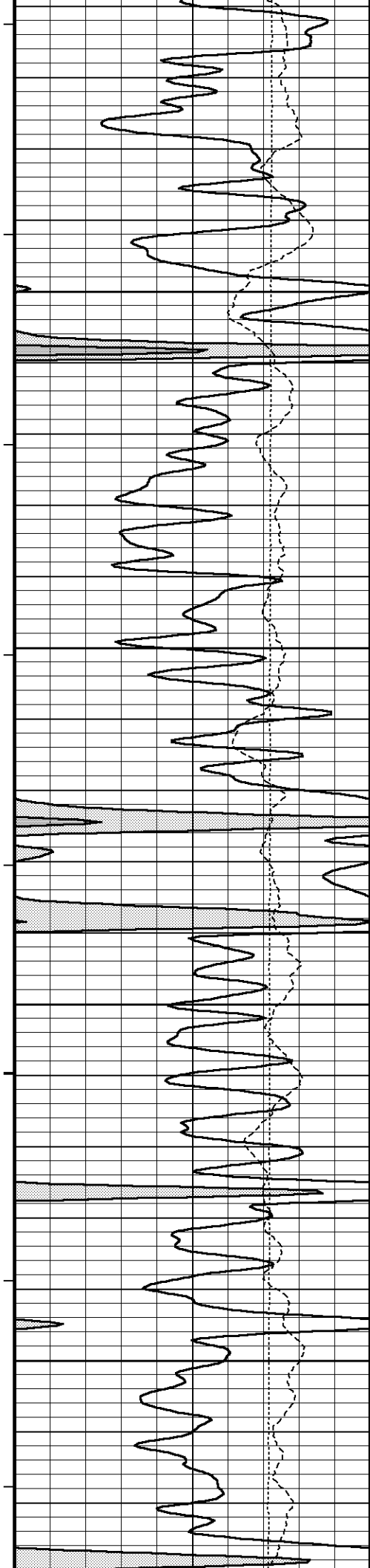
156°

6250

156°







159°

6550

159°

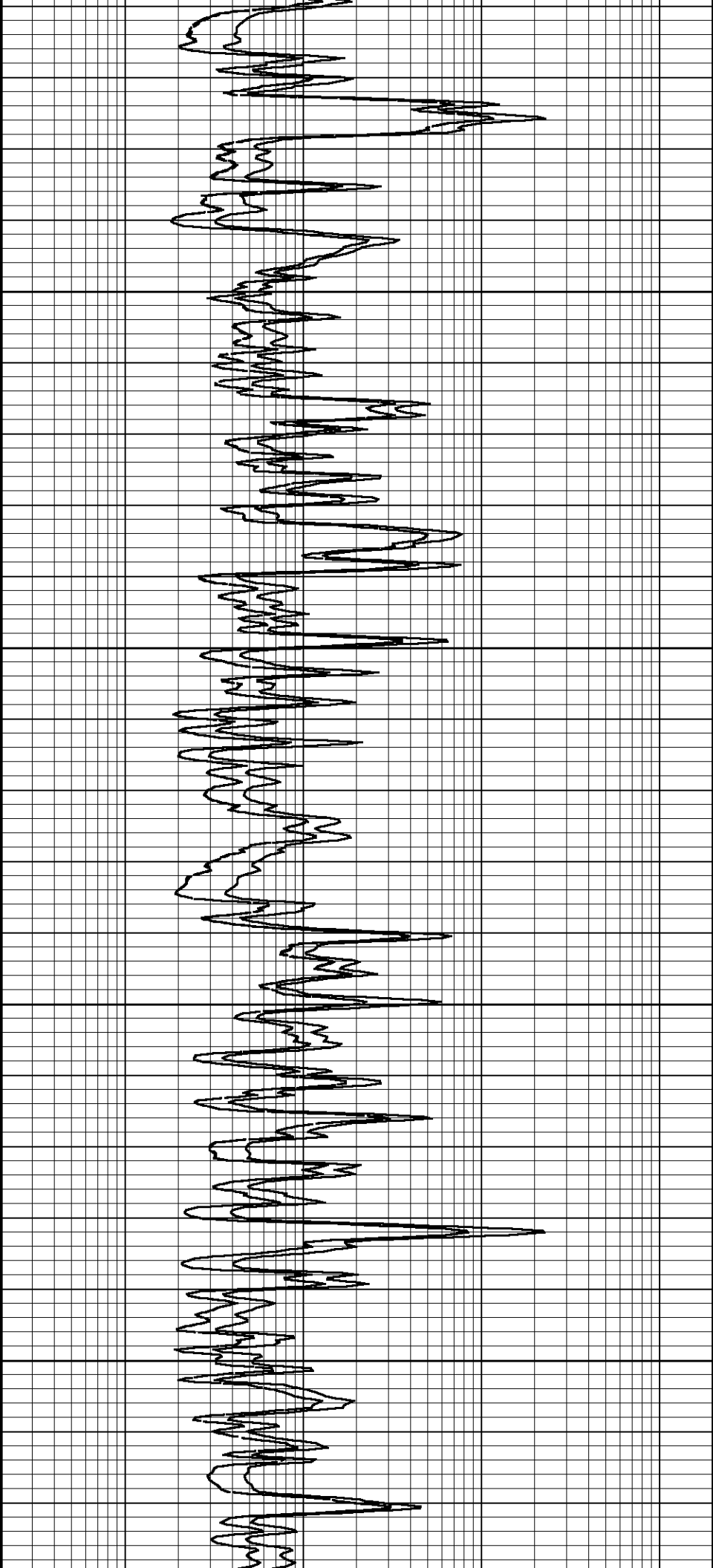
6600

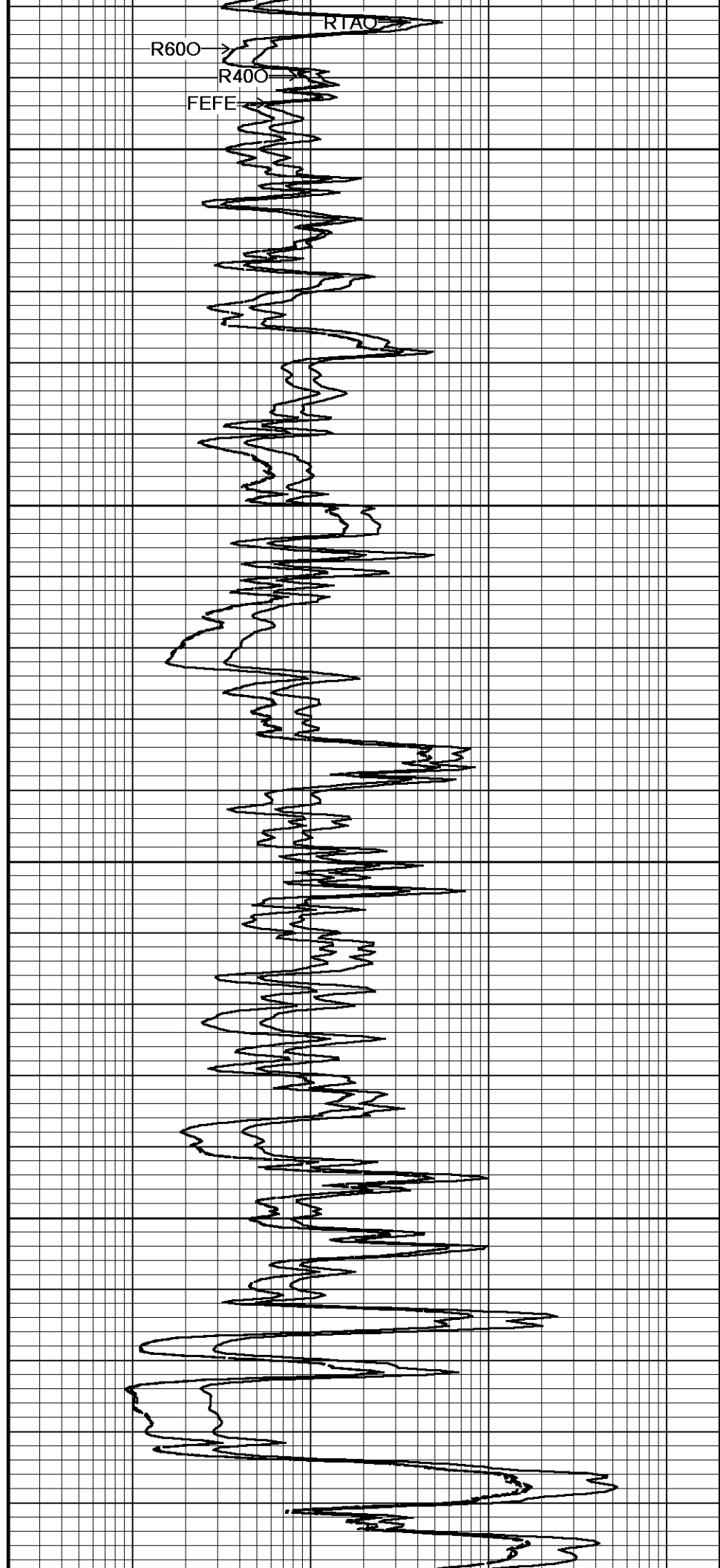
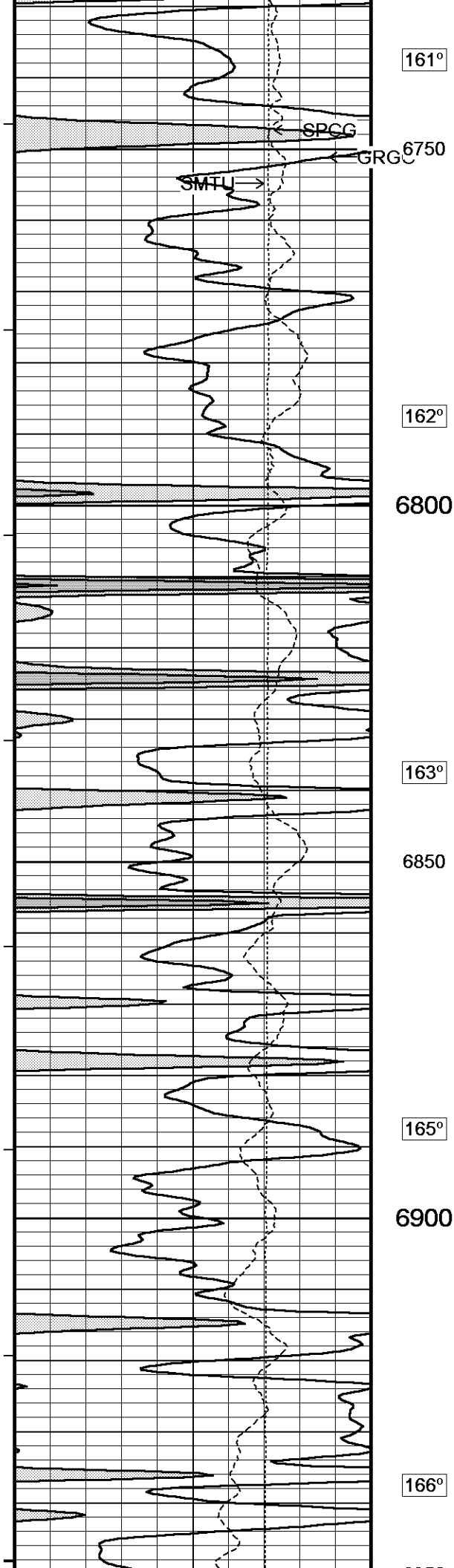
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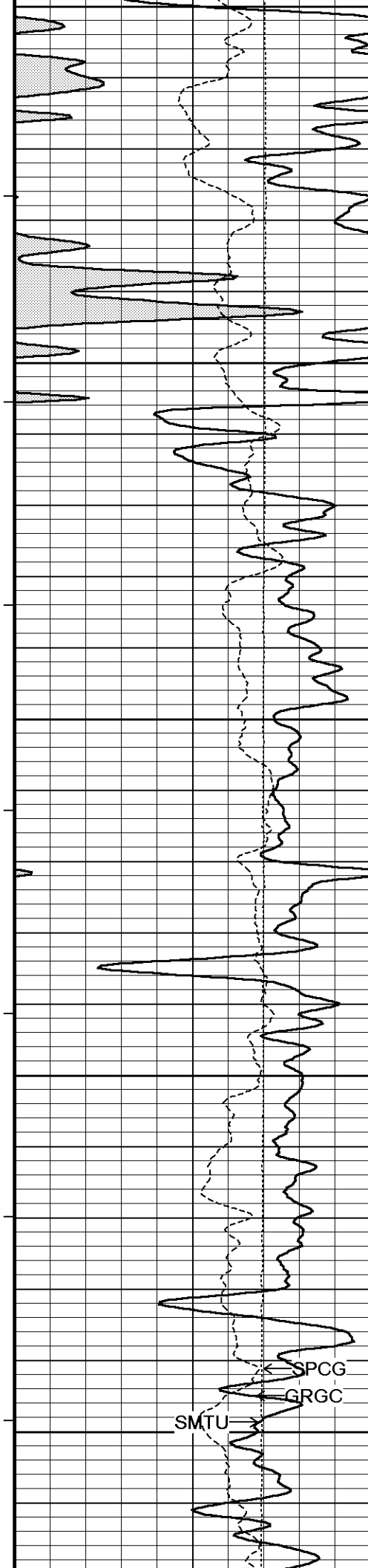
6650

160°

6700







6950

166°

7000

166°

7050

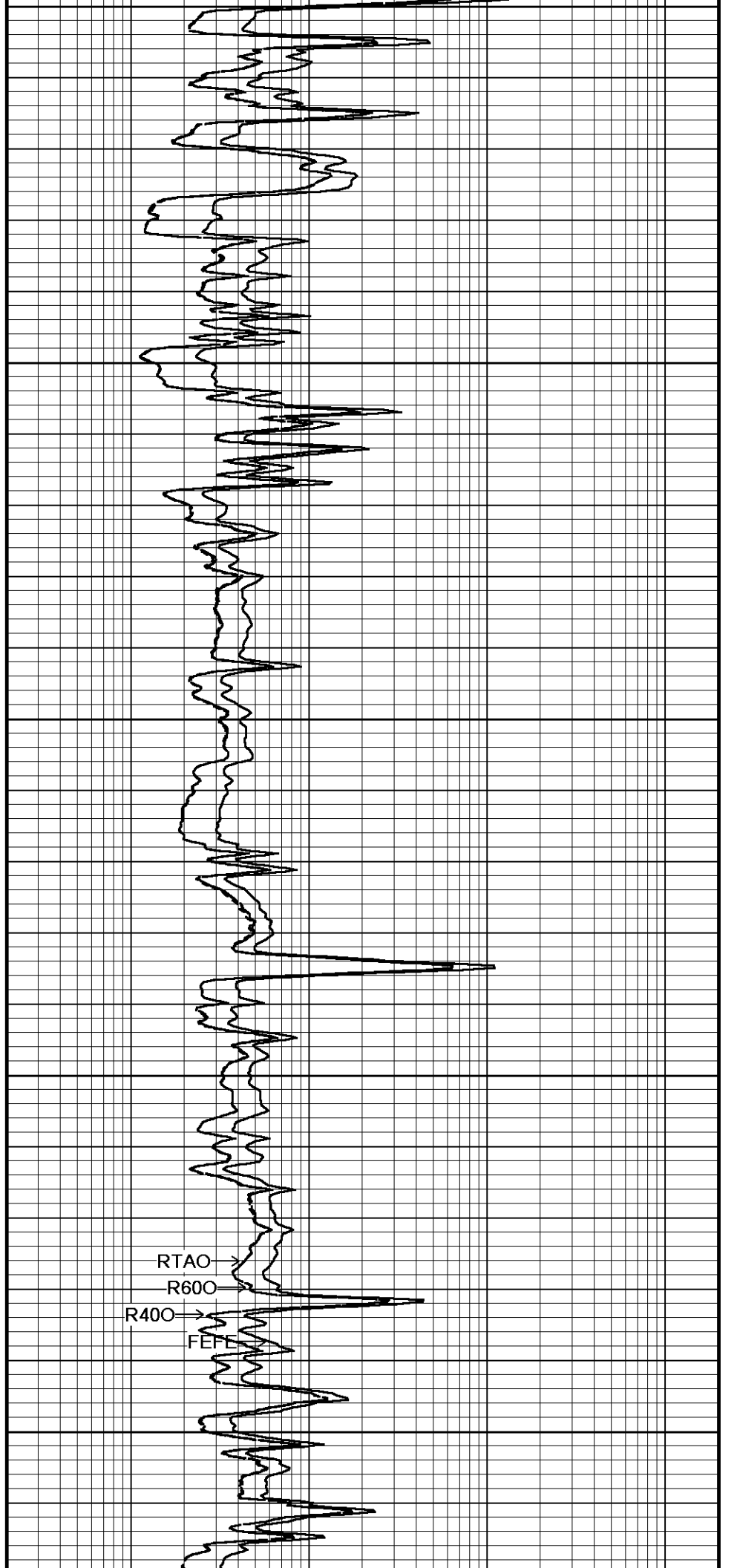
167°

7100

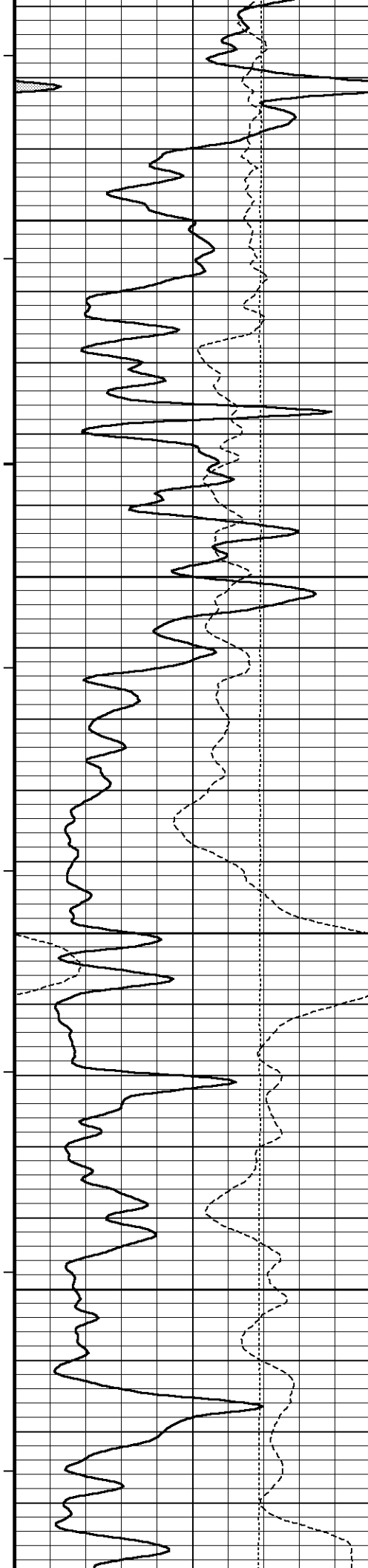
168°

7150

SMTU →
SPCG
GRGC



RTAO →
R600 →
R400 →
FEI →



170°

7200

173°

7250

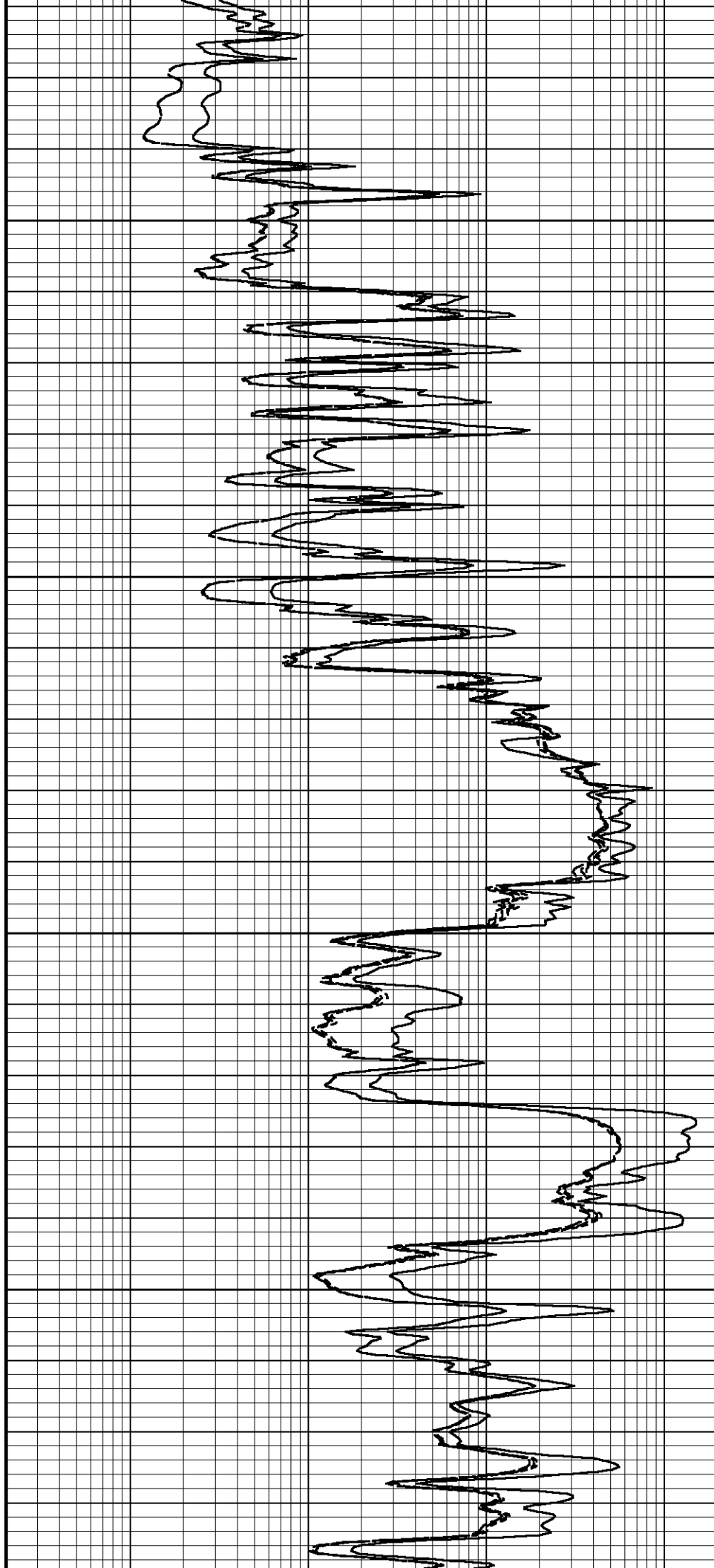
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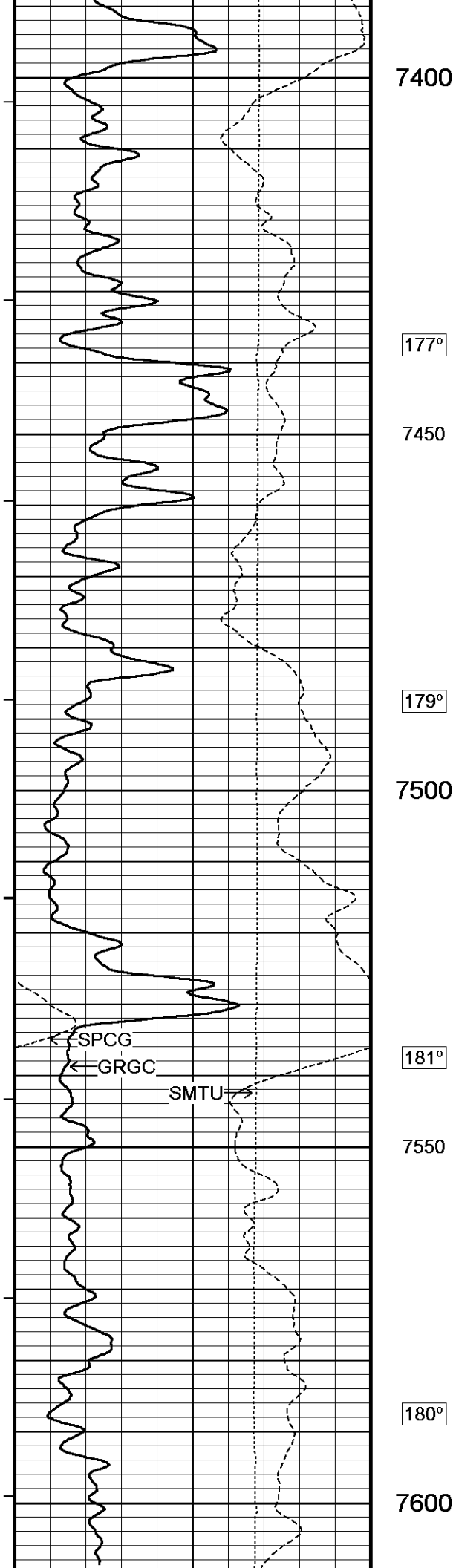
7300

175°

7350

176°





7400

177°

7450

179°

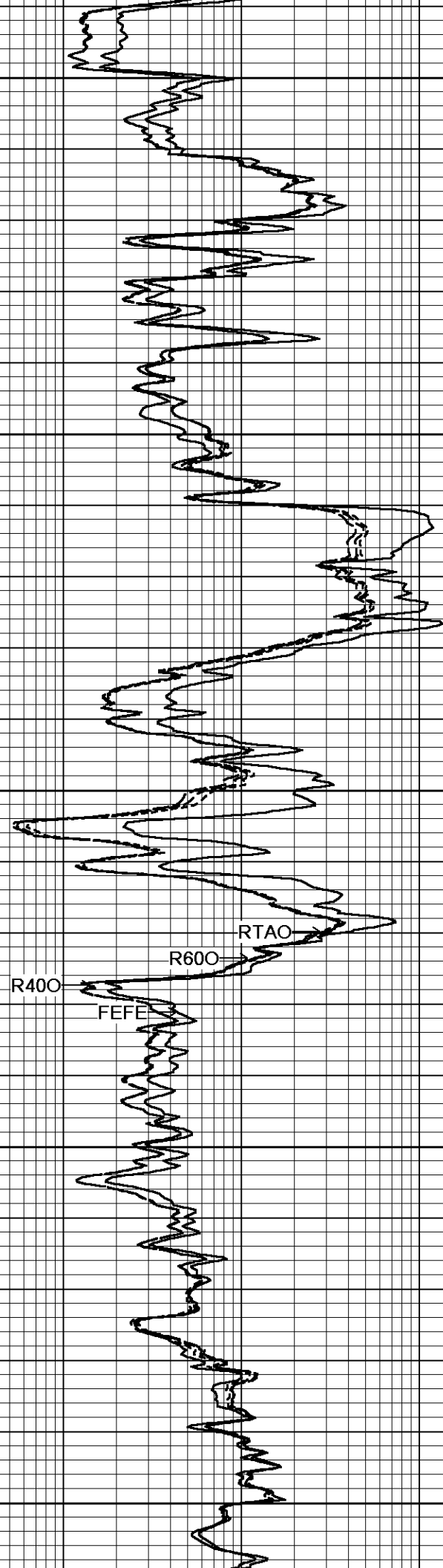
7500

181°

7550

180°

7600

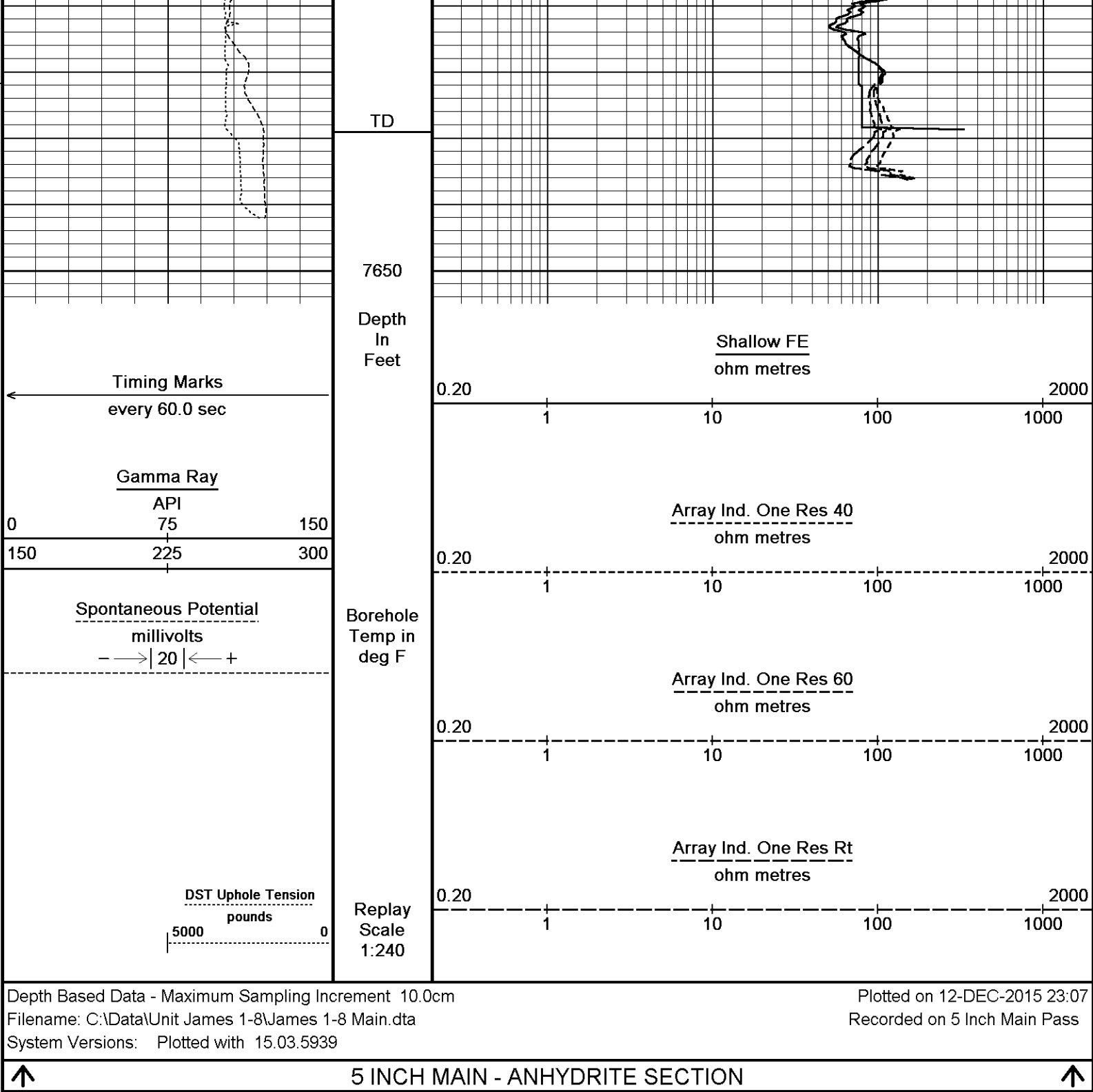


R400

FEFE

R600

RTAO



BEFORE SURVEY CALIBRATION			C:\Data\Unit James 1-8\James 1-8 Main.dta
General Constants All 000		Last Edited on 12-DEC-2015,10:57	
General Parameters			
Mud Resistivity	1.920	ohm-metres	
Mud Resistivity Temperature	56.000	degrees F	
Water Level	0.000	feet	
Borehole Fluid Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Method	Single Caliper		
HVOL Caliper 1	None		
HVOL Caliper 2	N/A		
Annular Volume Diameter	5.500	inches	

Annular Volume Diameter	0.500	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Gamma Calibration MCG-D.K 431			Field Calibration on 08-DEC-2015,11:44
	Measured	Calibrated (API)	
Background	98	65	
Calibrator (Gross)	1135	761	
Calibrator (Net)	1037	696	

Gamma Calibration Tolerances MCG-D.K 431		
Ratio	1.490	Counts/API
	<div> <div>1.40</div> <div>1.475</div> <div>1.55</div> </div>	

Gamma Constants MCG-D.K 431			Last Edited on 12-DEC-2015,04:33
Gamma Calibrator Number	696		
GRC-M Calibrator Jig in Use?	NO		
Inactive Background Jig in Use?	NO		
Mud Density	1.13	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Potassium Equivalence	Chloride		
K Mud Concentration	0.00	%	

High Resolution Temperature Calibration MCG-D.K 431			Field Calibration on 08-DEC-2015,11:34
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-D.K 431			Last Edited on 31-JUL-2014,11:55
Pre-filter Length	11		

FE Calibration MFE-C.A 396			Base Calibration on 08-DEC-2015 10:23 Field Check on 08-DEC-2015 10:31
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	971.8	126.8	
Base Check		278.8	
Field Check		278.8	

FE Calibration Tolerances MFE-C.A 396		
Reference 2	971.8	ohm
	<div> <div>-3%</div> <div>980.0</div> <div>+3%</div> </div>	
Base Check	278.8	ohm-m
	<div> <div>-2%</div> <div>277.0</div> <div>+2%</div> </div>	
Field Check	278.8	ohm-m
	<div> <div>-2%</div> <div>278.8</div> <div>+2%</div> </div>	

FE Constants MFE-C.A 396			Last Edited on 12-DEC-2015,04:39
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Borehole Correction Constants			
Sonde Position	0.5	inches	
Hole Size Source	Density Caliper		
Hole Size Constant Value	N/A	inches	
Rm Source	Global Value: Temperature Corrected		
Temp. for Rm Corr.	MCG External Temperature		

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	15.6	443.7	9.3	966.2
2	5.7	362.1	7.6	821.4
3	4.0	249.3	5.2	566.0
4	1.5	129.4	2.6	279.2

Array Temperature 73.8 Deg F

Test Loop Calibration Verified

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1			-3.5	2178.1
2			14.6	1989.0
3			13.1	1699.4
4			10.9	1140.0
Deep			7.2	1085.5
Medium			20.2	2255.9
Shallow			22.9	2973.8

Array Temperature 0.0 54.6 Deg F

Induction Calibration Tolerances MAI-C.A 455

Low Conductivity 1	15.6		mmho/m	High Conductivity 1	443.7		mmho/m
Low Conductivity 2	5.7		mmho/m	High Conductivity 2	362.1		mmho/m
Low Conductivity 3	4.0		mmho/m	High Conductivity 3	249.3		mmho/m
Low Conductivity 4	1.5		mmho/m	High Conductivity 4	129.4		mmho/m
Background Vx 1	0.0		mmho/m	Phase Check Loop 1	0.0		%
Background Vx 2	0.0		mmho/m	Phase Check Loop 2	0.0		%
Background Vx 3	0.0		mmho/m	Phase Check Loop 3	0.0		%
Background Vx 4	0.0		mmho/m	Phase Check Loop 4	0.0		%

Induction Constants MAI-C.A 455

Last Edited on 08-DEC-2015,10:17

Induction Model

RtAP-WBM

Borehole Correction Constants

Tool Centred	No	
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Stand-off Type	Fins	
Stand-off	0.50	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Angle	60.00	degrees
Stand-off Fin Width	0.7500	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

Squasher Start	0.0050	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre

Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre
Symmetrised Receiver Gains		
Receiver 1	1.00	
Receiver 2	1.00	
Receiver 3	1.00	
Receiver 4	1.00	
Apparent Porosity and Water Saturation Constants		
Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

DOWNHOLE EQUIPMENT

C:\Data\Unit James 1-8\James 1-8 Main.dta

Cablehead, 11 pin
CBH-C 217 LG: 2.40 ft WT: 24.3 lb OD: 2.240 in

11C-11B Compact Tool Adaptor
MTA-K.A 189 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in

Compact Swivel Head Adaptor
SHA-J.A 450 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.K 431 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Neutron
MDN-C.A 480 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-C.J 434 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Focussed Electric
MFE-C.A 396 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-C.A 455 LG: 10.81 ft WT: 48.5 lb OD: 2.240 in

Total Length: 46.41 ft Weight: 361.6 lb



Tool Zero (0.13ft from bottom)

All measurements relative to tool zero.

COMPANY	UNIT PETROLEUM COMPANY
WELL	JAMES #1-2
FIELD	WILDCAT
PROVINCE/COUNTY	LINCOLN

PROVINCE/COUNTY LINCOLN
COUNTRY/STATE USA / COLORADO

Elevation Kelly Bushing	5138.00	feet	First Reading		feet
Elevation Drill Floor	5136.00	feet	Depth Driller	7635.00	feet
Elevation Ground Level	5123.00	feet	Depth Logger	7629.00	feet



ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

Weatherford®

Weatherford

COMPANY

UNIT PETROLEUM COMPANY

WELL

JAMES #1-2

FIELD

WILDCAT

PROVINCE/COUNTY

LINCOLN

COUNTRY/STATE

USA / COLORADO

LOCATION

1980' FWL & 1980' FWL SE-NW

SEC. 2

TWP. 15S

R.3E 45N

Other Services

Latitude

38.772880

Longitude

-103.520780

Well Number

05-50348013

Permanent Datum G.L. Elevation

5123 feet

Log Measured From

K9

Drilling Measured From

K8

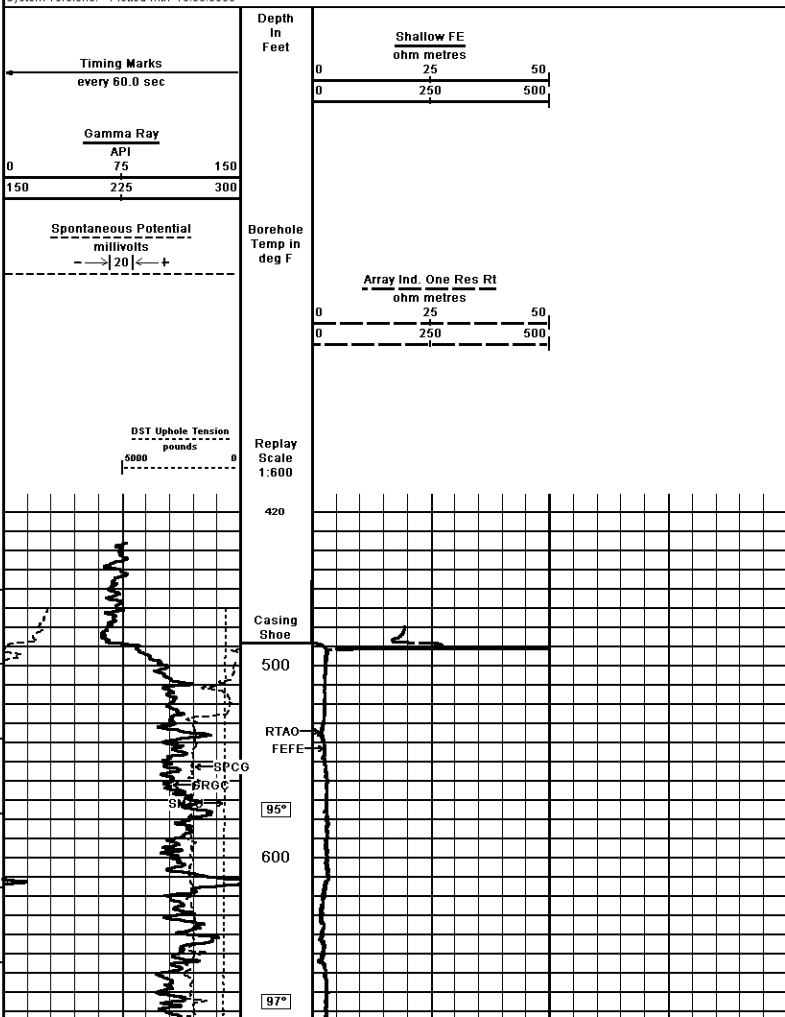
ARRAY INDUCTION

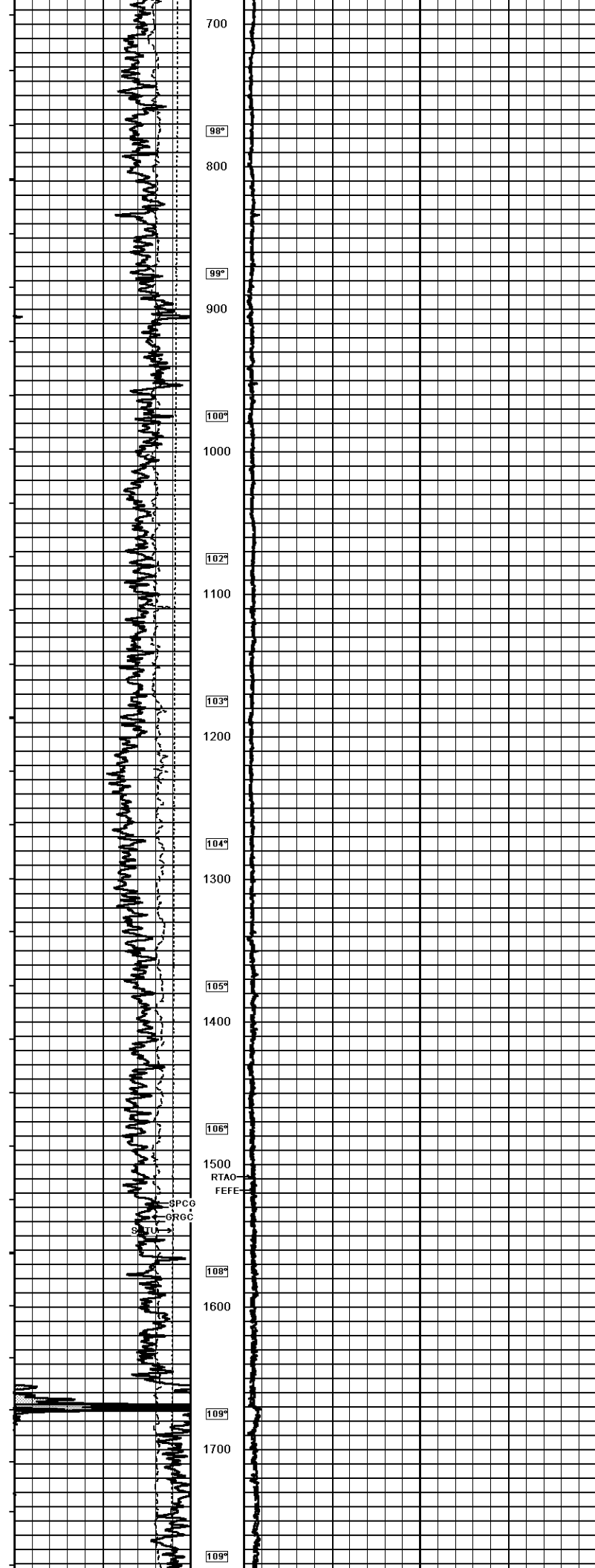
SHALLOW FOCUSED

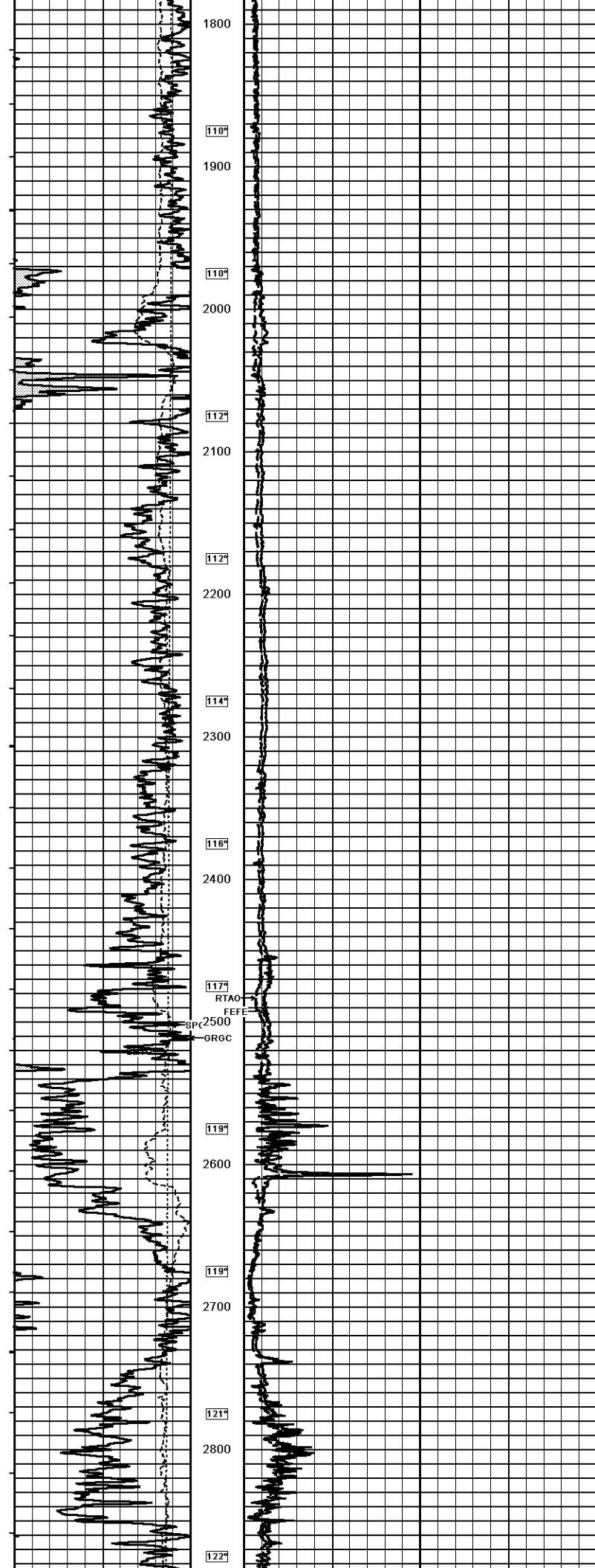
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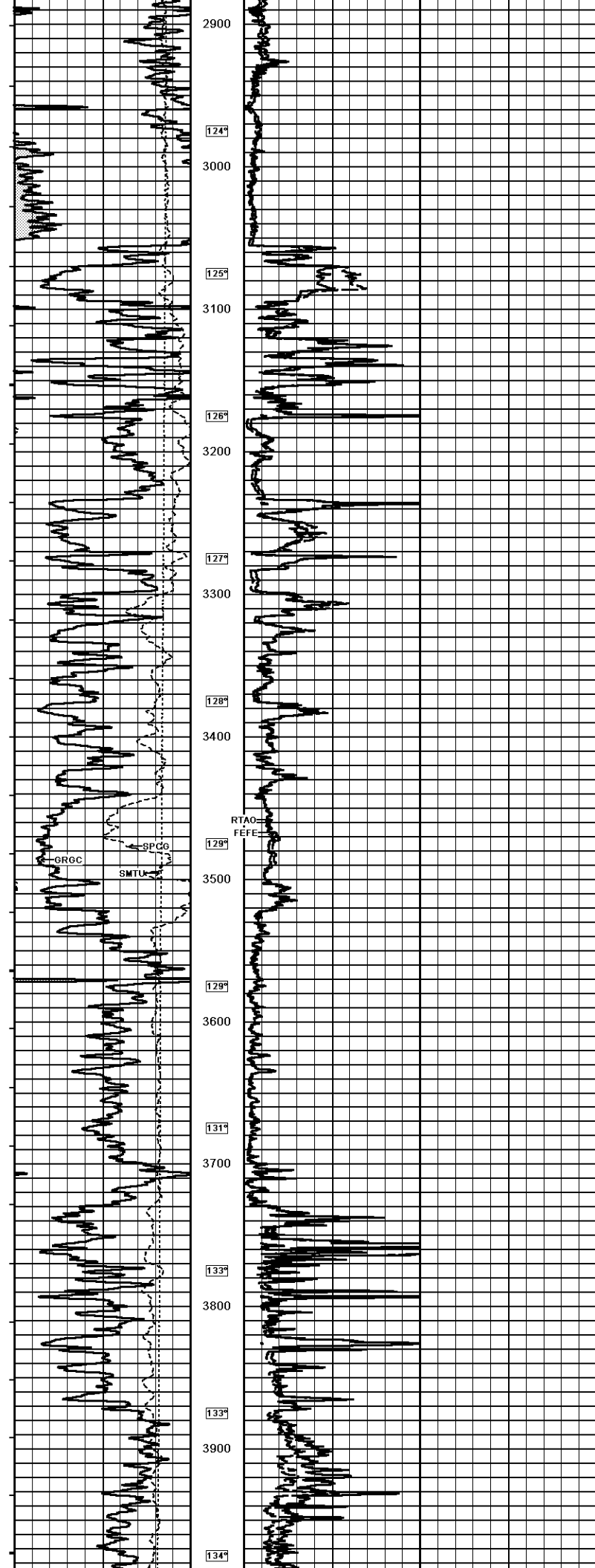
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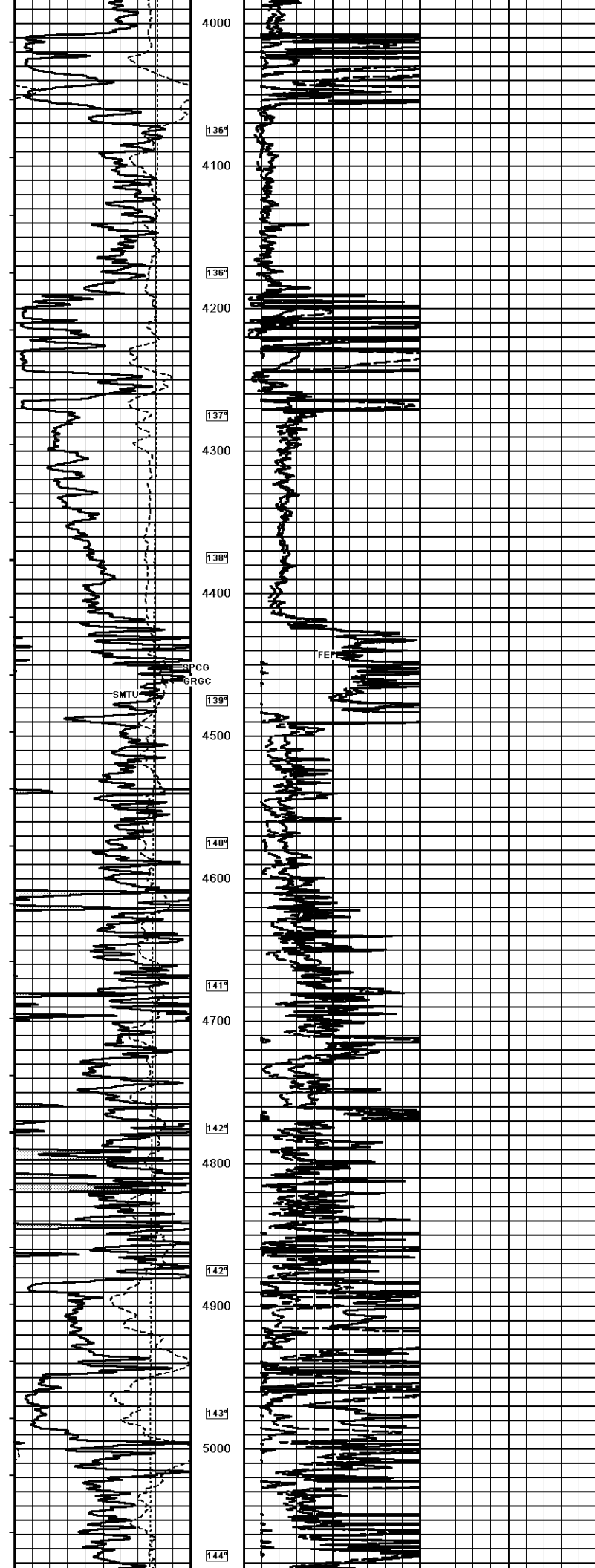
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Plotted on 12-DEC-2015 23:07
Filename: C:\Data\Unit James 1-8\James 1-8 Main.dta
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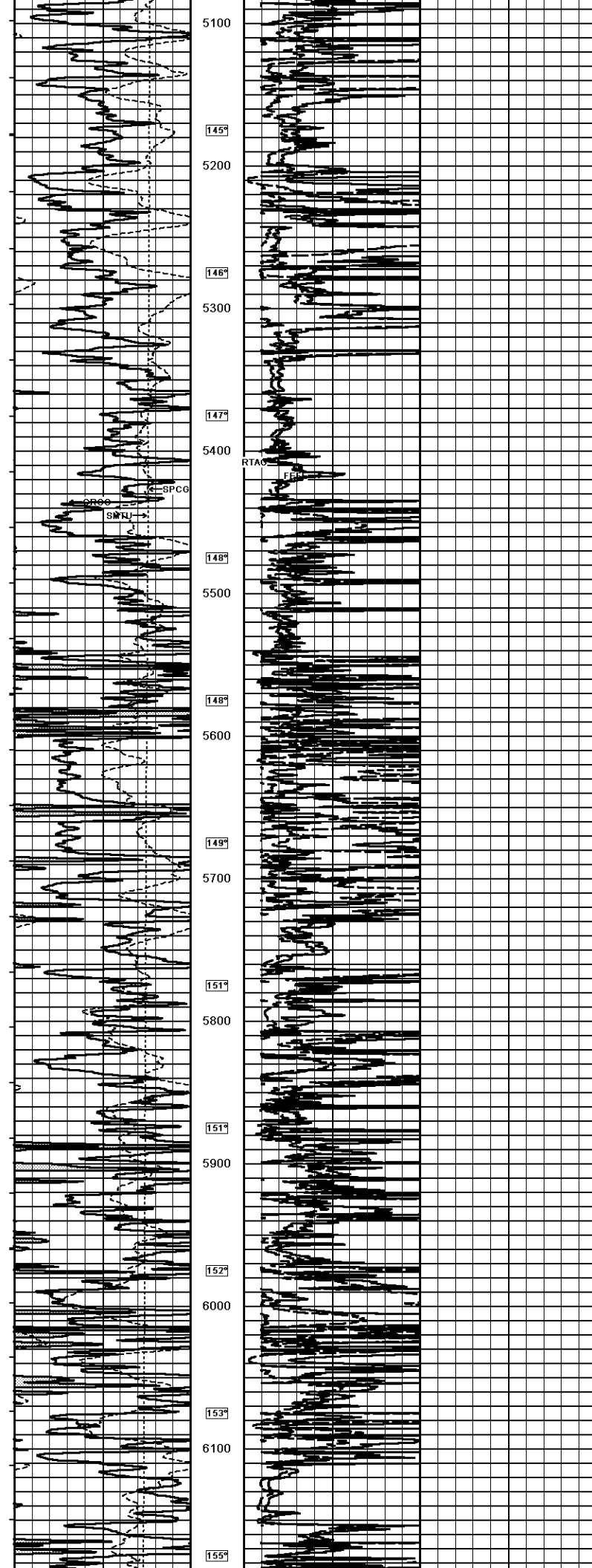


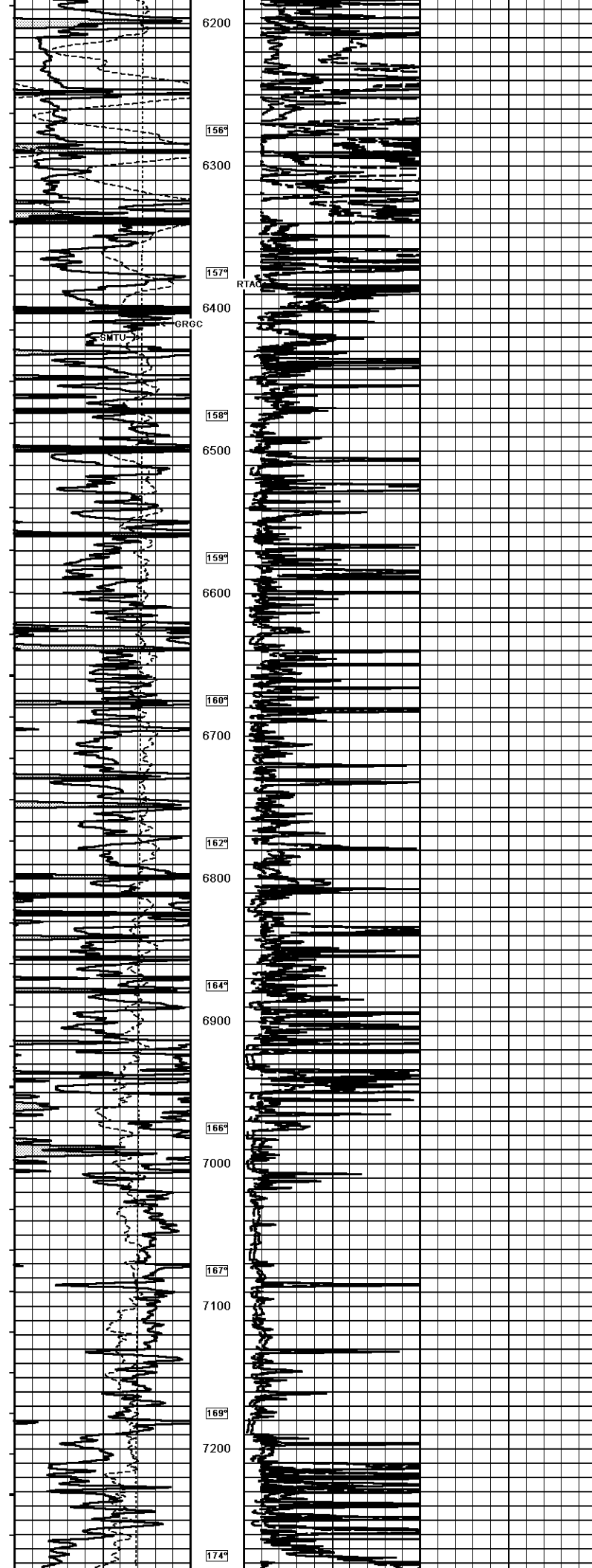


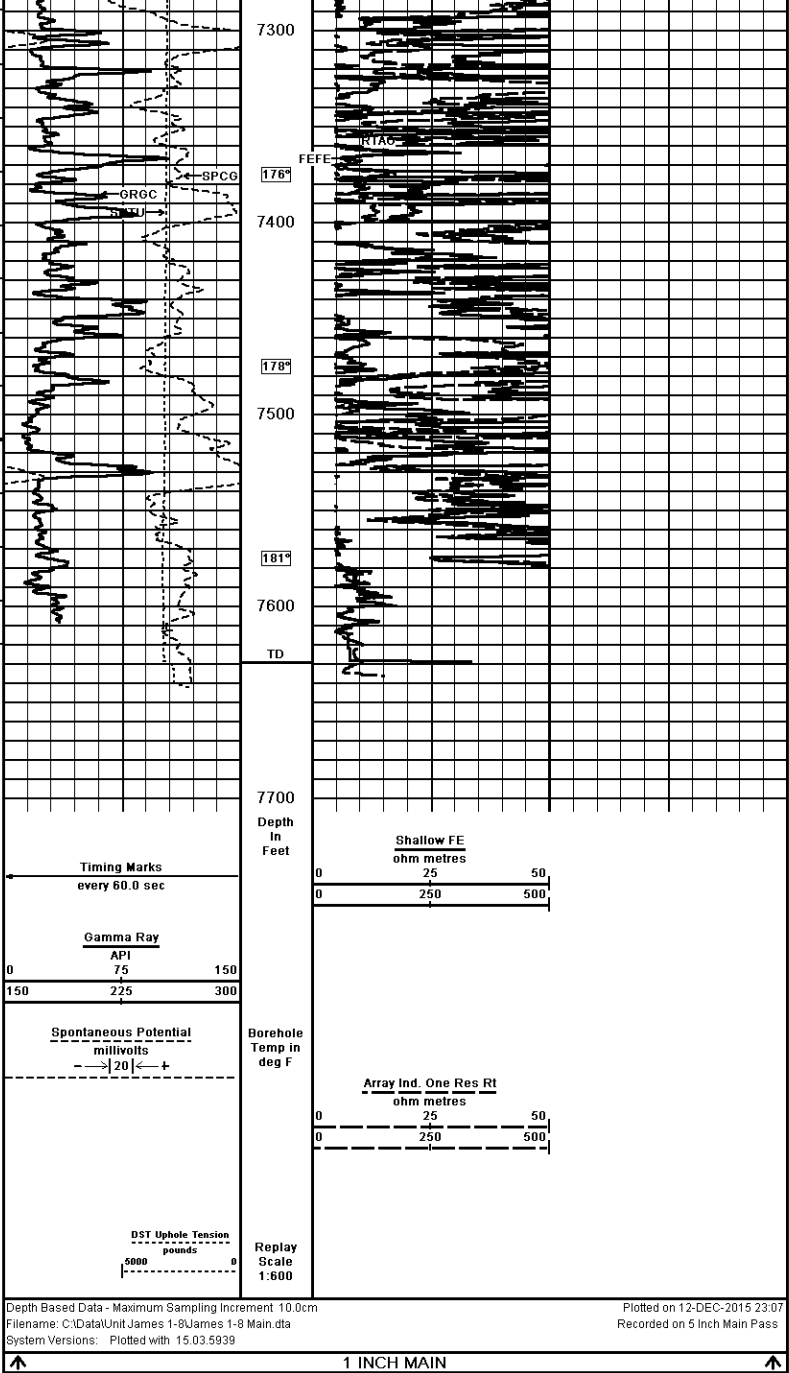













COMPANY		UNIT PETROLEUM COMPANY			
WELL		JAMES #1-2			
FIELD		WILDCAT			
PROVINCE/COUNTY		LINCOLN			
COUNTRY/STATE		USA / COLORADO			
Elevation Kelly Bushing	5138.00	feet	First Reading		feet
Elevation Drill Floor	5136.00	feet	Depth Driller	7635.00	feet
Elevation Ground Level	5123.00	feet	Depth Logger	7629.00	feet
			ARRAY INDUCTION		
Weatherford			SHALLOW FOCUSED		
			ELECTRIC LOG		