



Weatherford[®]

**CML IMPULSE SHUTTLE
COMPACT PHOTO DENSITY
COMPENSATED NEUTRON LOG**

COMPANY SANDRIDGE ENERGY
 WELL KELLY DANIELLE 3119 1-23H
 FIELD SIX MOONS
 PROVINCE/COUNTY COMANCHE
 COUNTRY/STATE USA / KANSAS
 LOCATION S2 S2 SW SW
 200' FSL & 660' FWL

SEC 23 TWP 31S RGE 19W Other Services MAI
 API Number 15-033-21637 CMI
 Permit Number
 Permanent Datum GL, Elevation 2133 feet
 Log Measured From KB
 Drilling Measured From KB

Date	06-JUL-2012	Elevations:	feet
Run Number	ONE	KB	2153.00
Depth Driller	9593.00	DF	2153.00
Depth Logger	9593.00	GL	2133.00
First Reading	9503.00		
Last Reading	980.00		
Casing Driller	5653.00		
Casing Logger	5650.00		
Bit Size	6.125		
Hole Fluid Type	WATER		
Density / Viscosity	8.50 lb/USg	28.00 CP	
PH / Fluid Loss	10.00	60.00 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.90 @ 90.0	ohm-m	
Rmf @ Measured Temp	0.72 @ 90.0	ohm-m	
Rmc @ Measured Temp	1.08 @ 90.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.62 @134.0	ohm-m	
Time Since Circulation	1 HOUR		
Max Recorded Temp	134.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	18077	OKC	
Recorded By	GUTHMUELLER		
Witnessed By	K GENTRY		
AFE# DC12083	SO# 3535269		

BOREHOLE RECORD

Last Edited: 06-JUL-2012 11:59

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	1005.00
8.750	1005.00	5653.00
6.125	5653.00	9593.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURF	9.625	0.00	1005.00	36.00
INTER	7.000	0.00	5653.00	26.00

REMARKS

TOOLS RAN:SMR-166, SER-150, 200V MBS-113,MMSE-166,MTI-063, MGS-133,MCL-069, MDN-388, MPD-424,MIM-233,MIE-233, MAI-390
RAN IN COMBINATION

WELL LOGGED USING IMPULSE METHOD OF DEPLOYMENT, AND MEMORY LOGGING SYSTEM

HARDWARE: MAI: MIS-B 0.5" STANDOFF USED ABOVE MAI, ISA 0.5" STANDOFF USED BELOW MAI.

MIE: CENTRALIZER ABOVE AND BELOW IMAGER

MDN: MIS-A DOUBLE BOWSPRING USED ABOVE MDN.

MPD: 4INCH PROFILE PLATE USED, MIS-A SINGLE BOWSPRING USED BELOW MPD

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

DRILL PIPE DEPTH DURING DEPLOYMENT: 9467

LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9562

BOREHOLE VOLUME TD TO PRODUCTION CASING = 860 CU FT
 ANNULAR HOLE VOLUME CALCULATED USING WITH 4.5 INCH PRODUCTION CASING TD TO PRODUCTION CASING = 445 CU FT

SERVICE ORDER # 3535269
 RIG: LARIAT 45

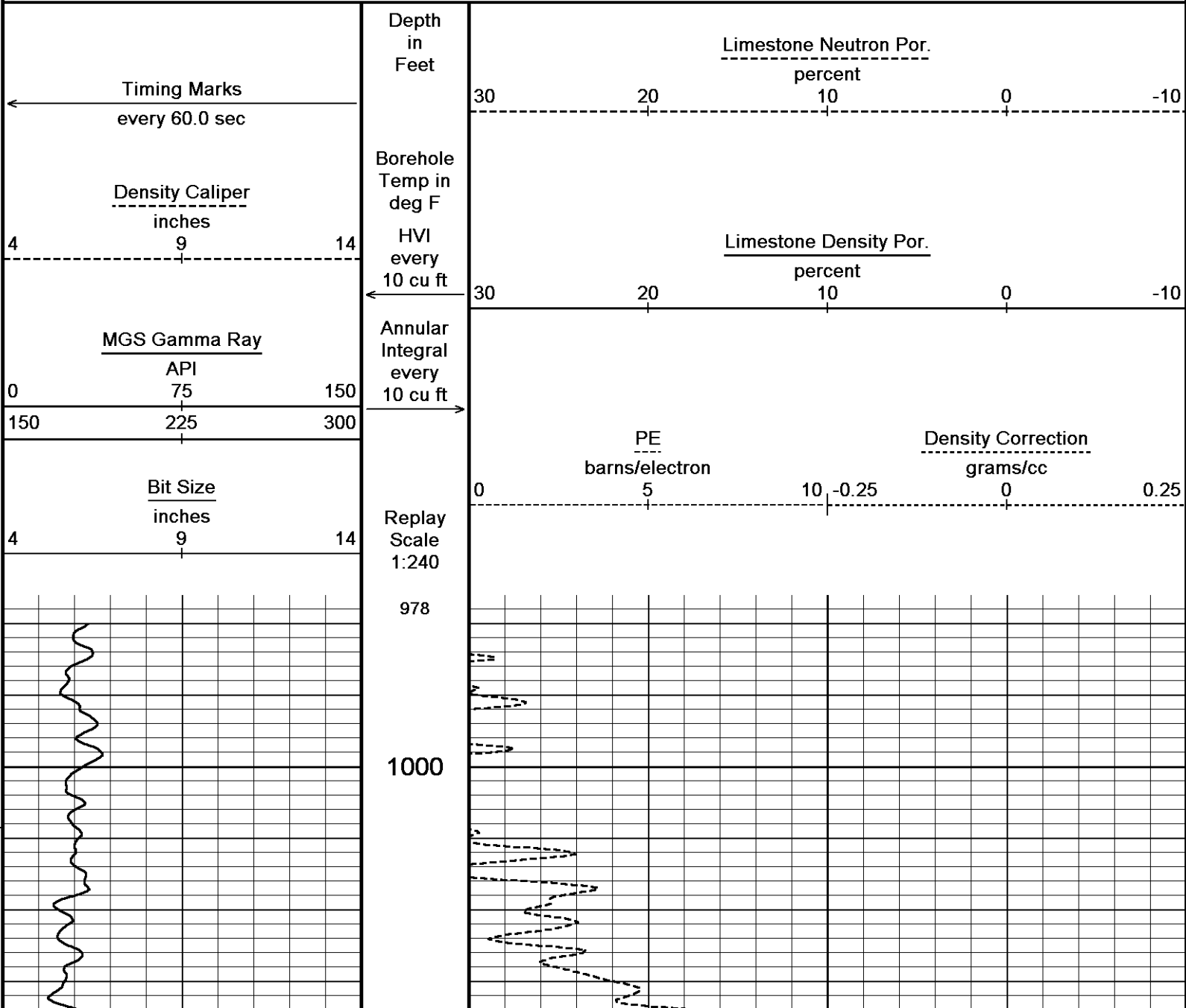
OPERATOR(S): R ROLLANS, R CASPARIAN

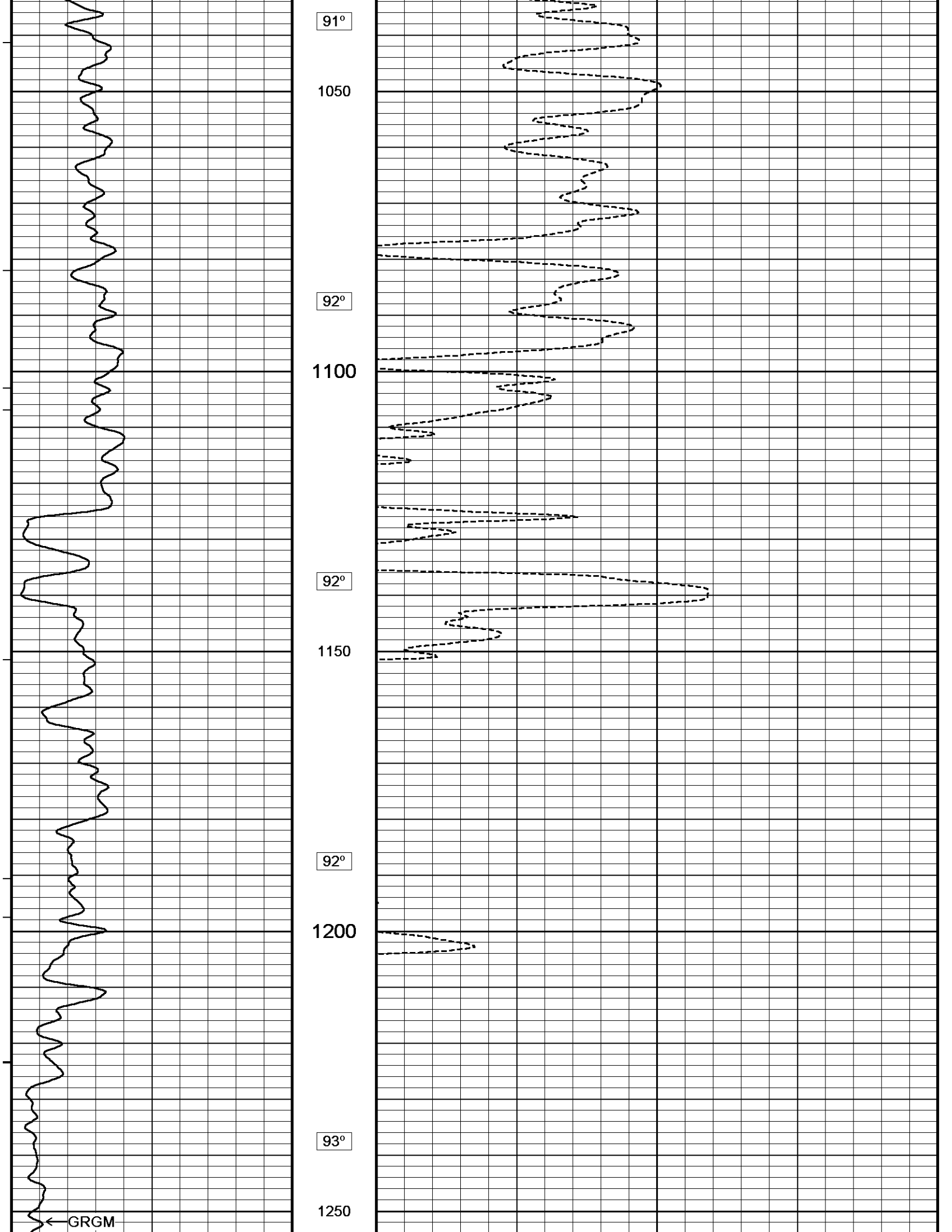
HOLE RUGOSITY MAY AFFECT LOG QUALITY.

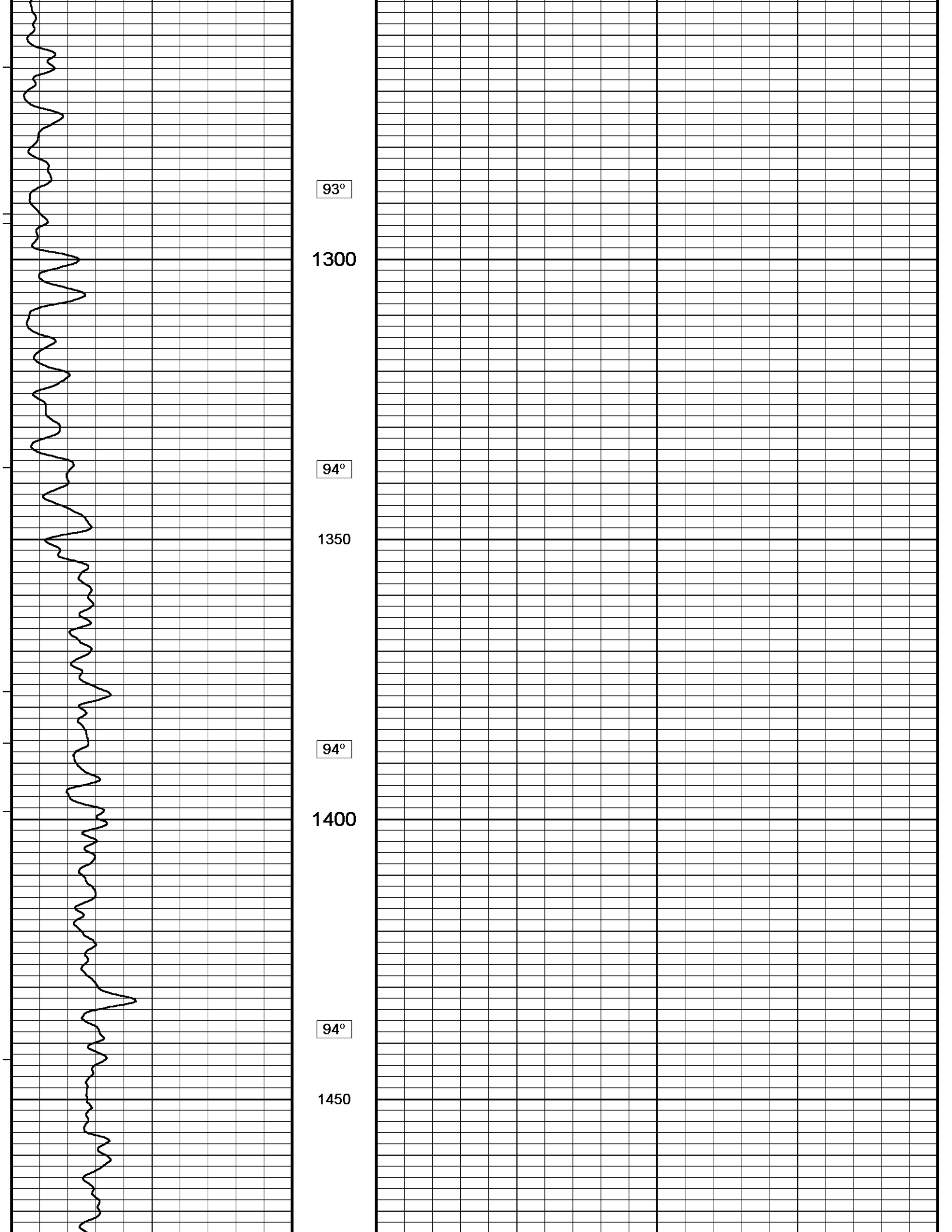
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 in our price schedule.

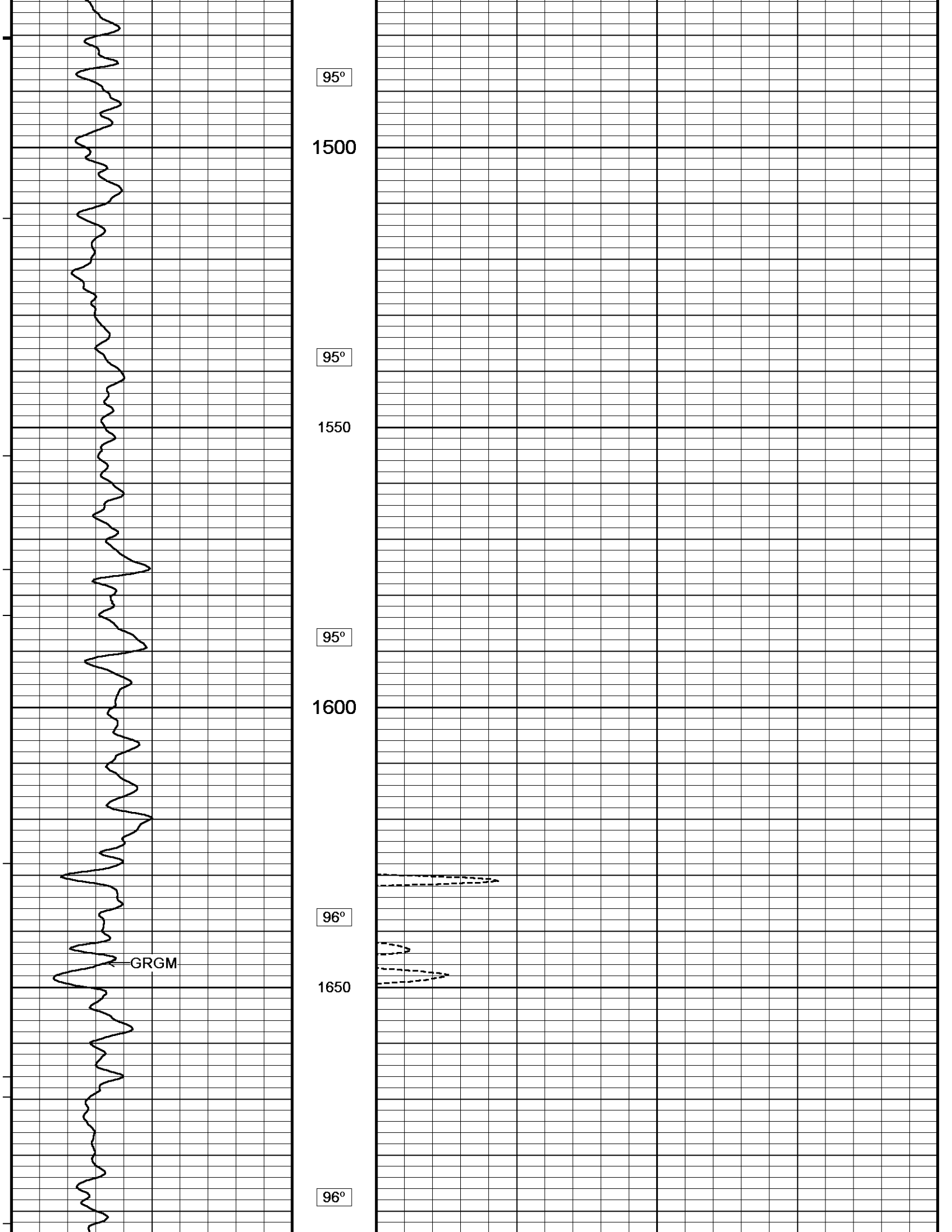
5 INCH MAIN LOG

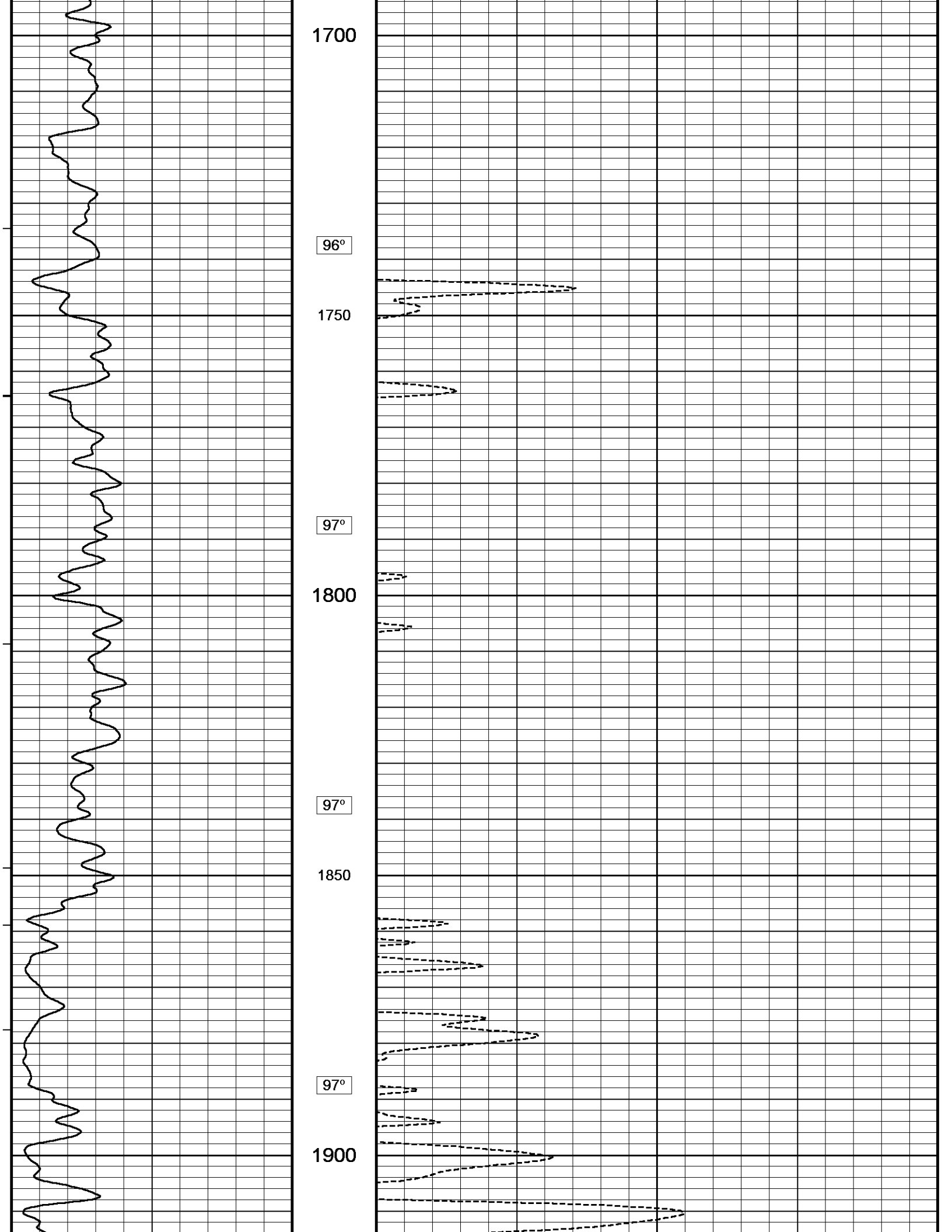
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 Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 311...\33046RTAP.dta Recorded on 07-JUL-2012 00:32
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

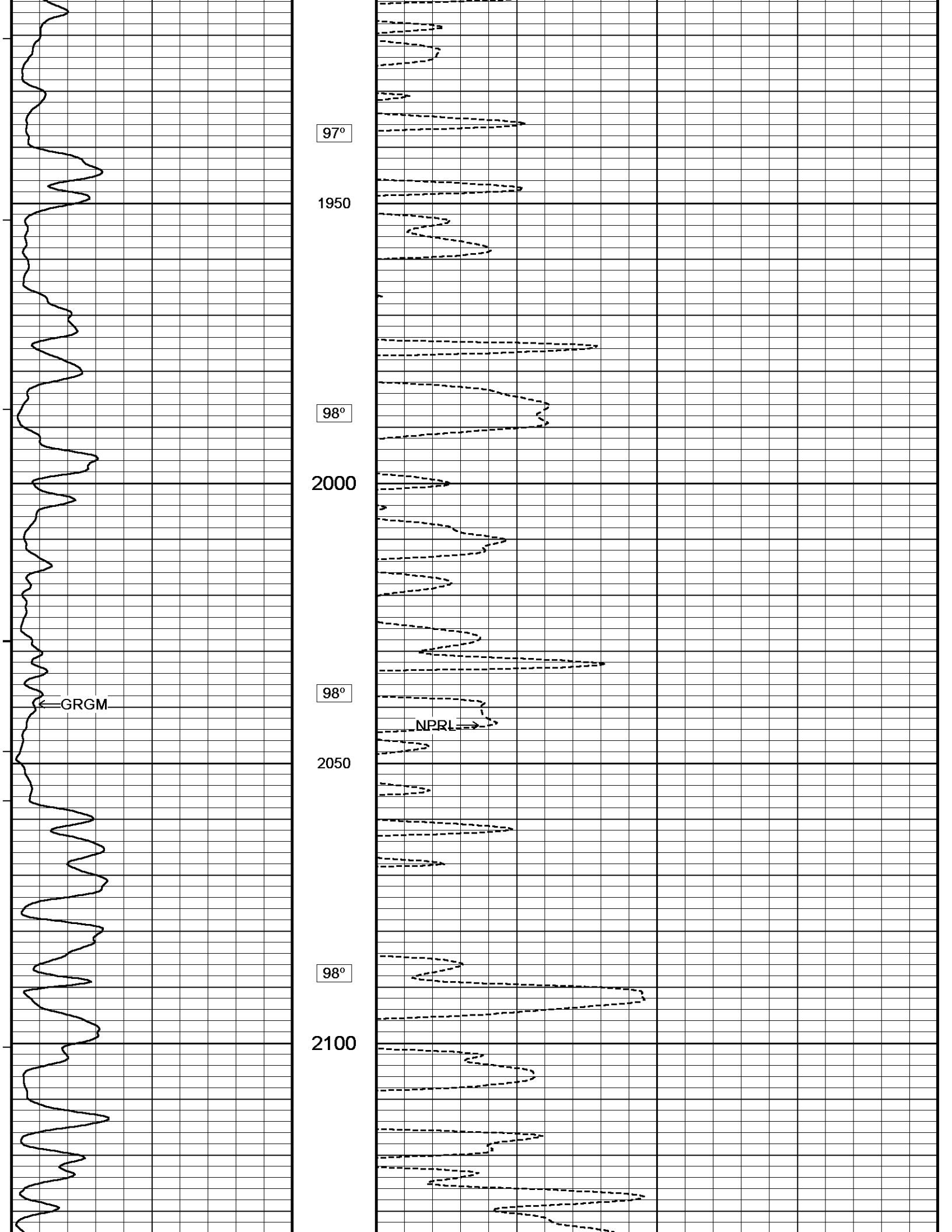


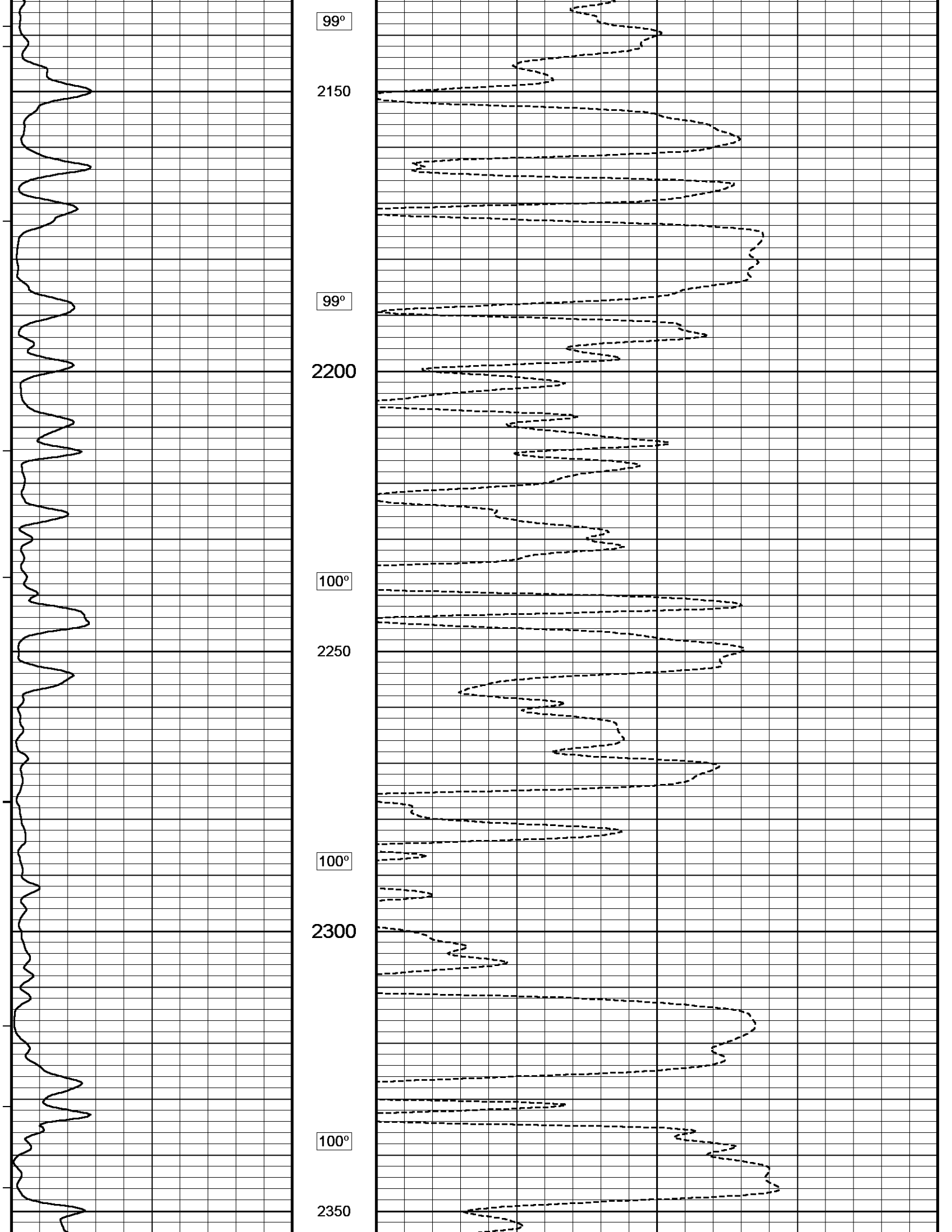


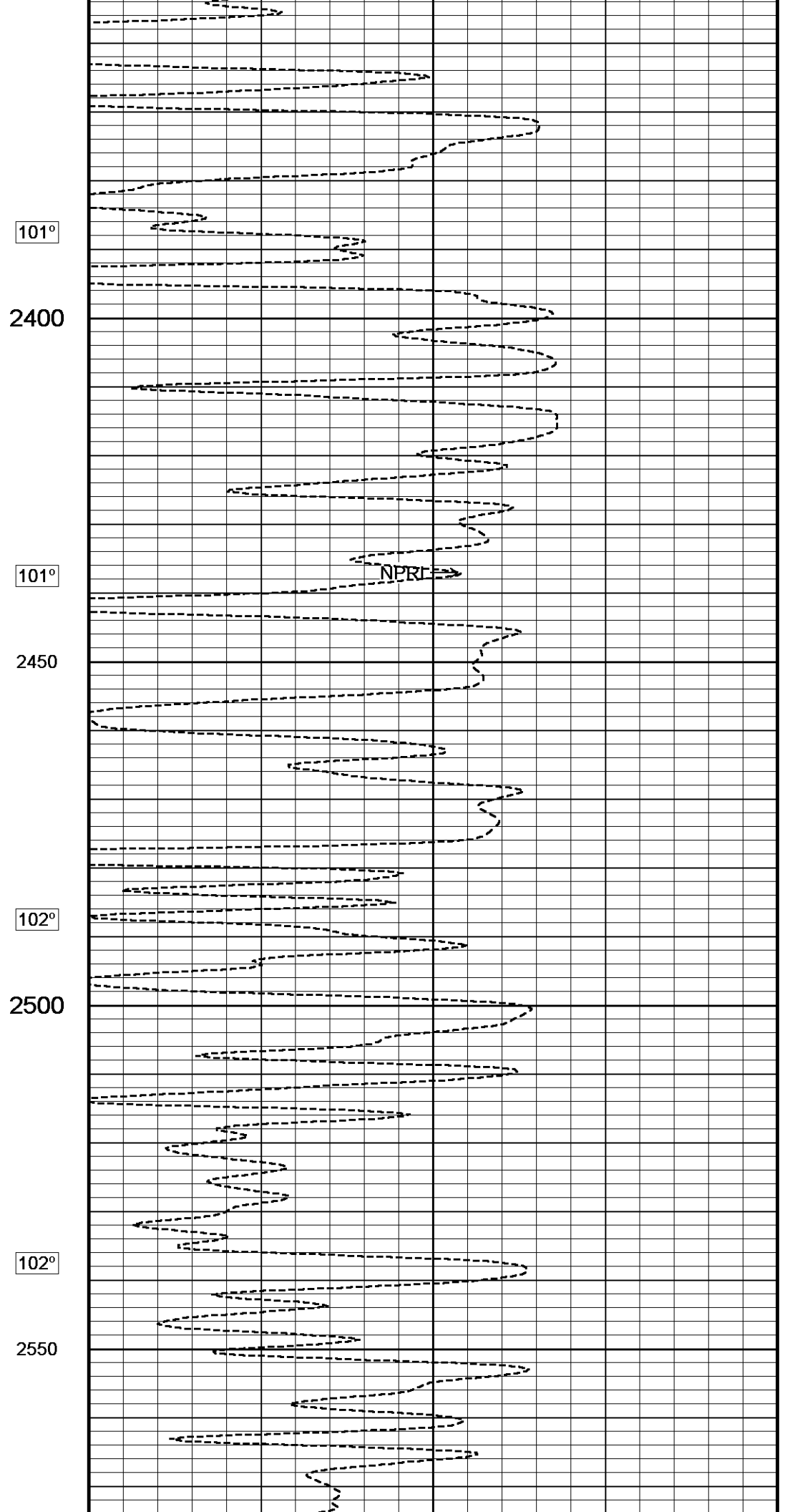
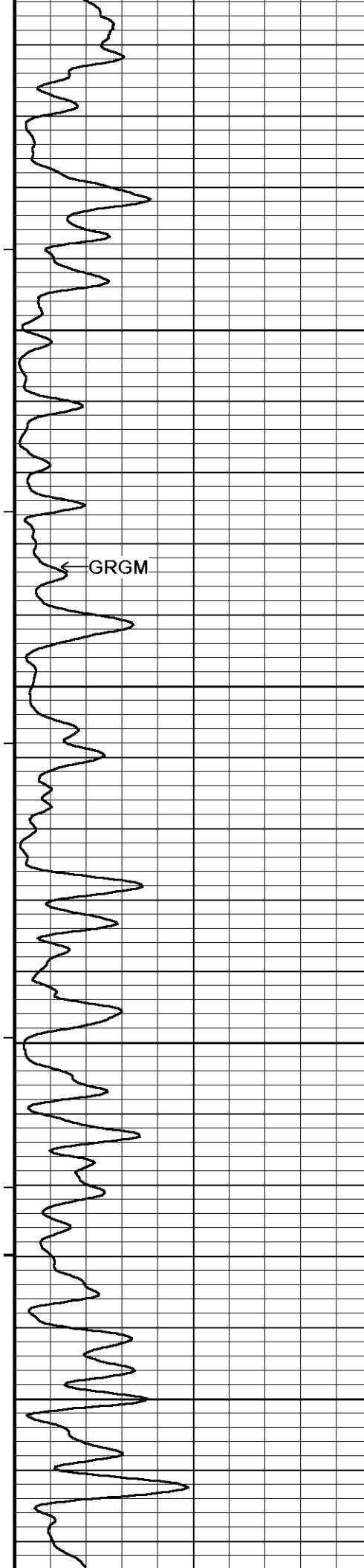


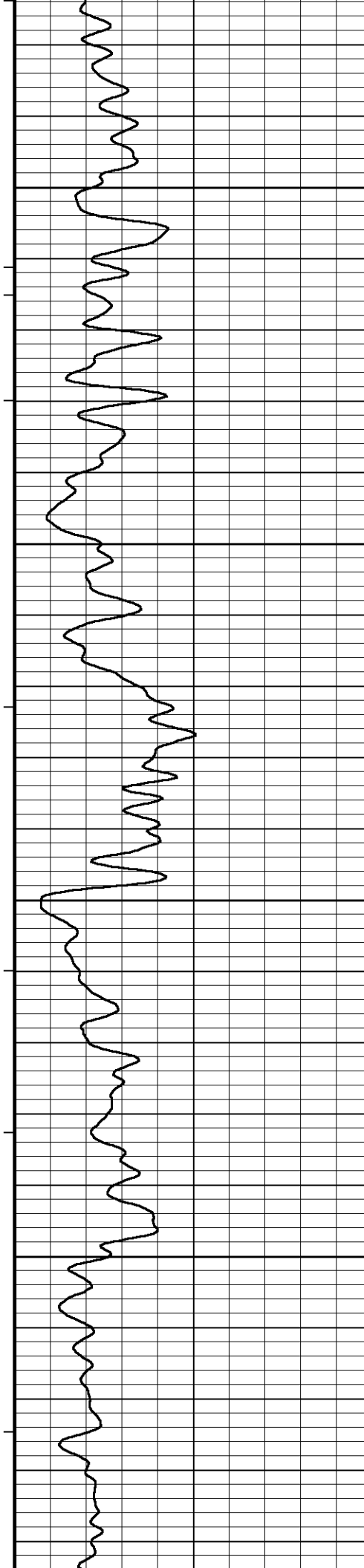












103°

2600

103°

2650

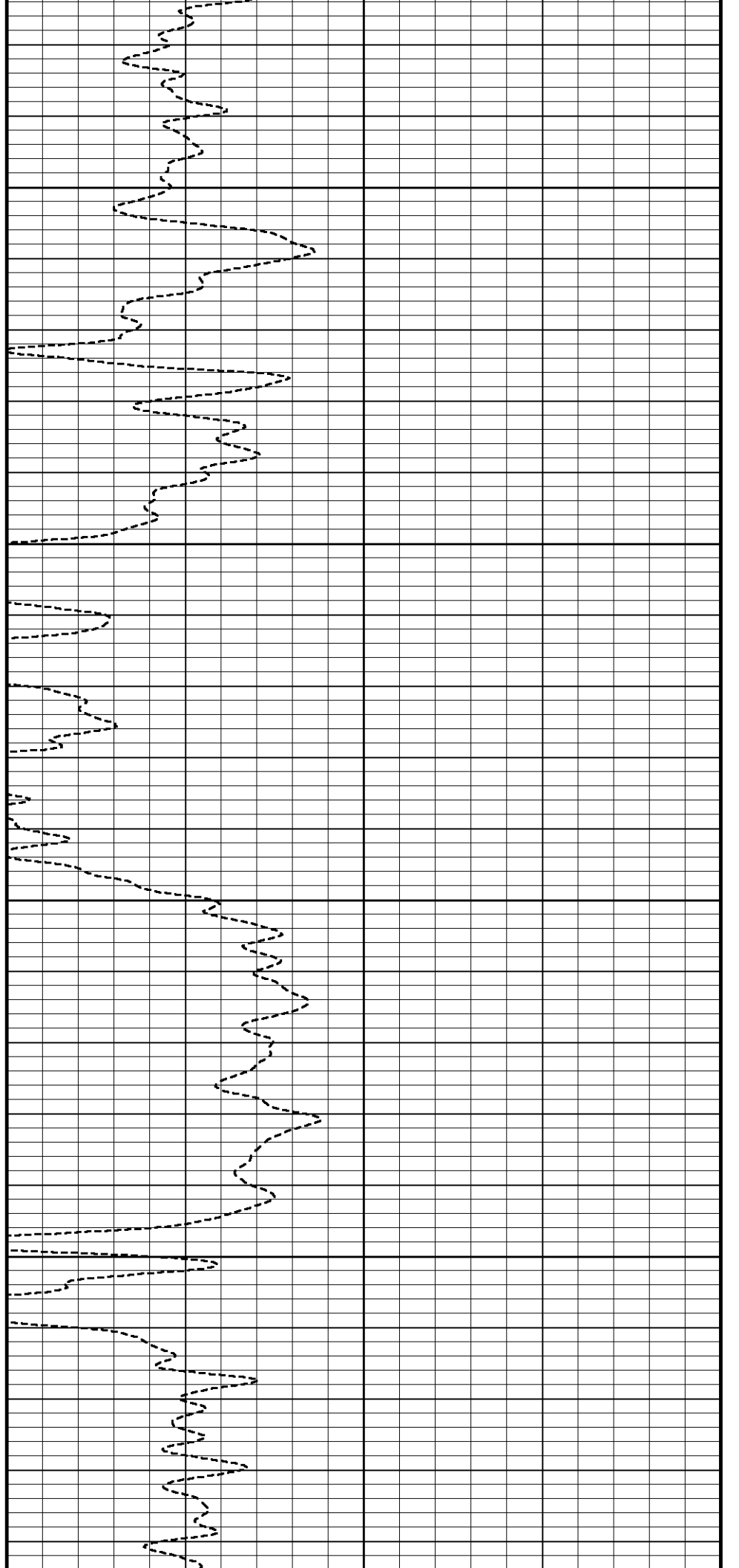
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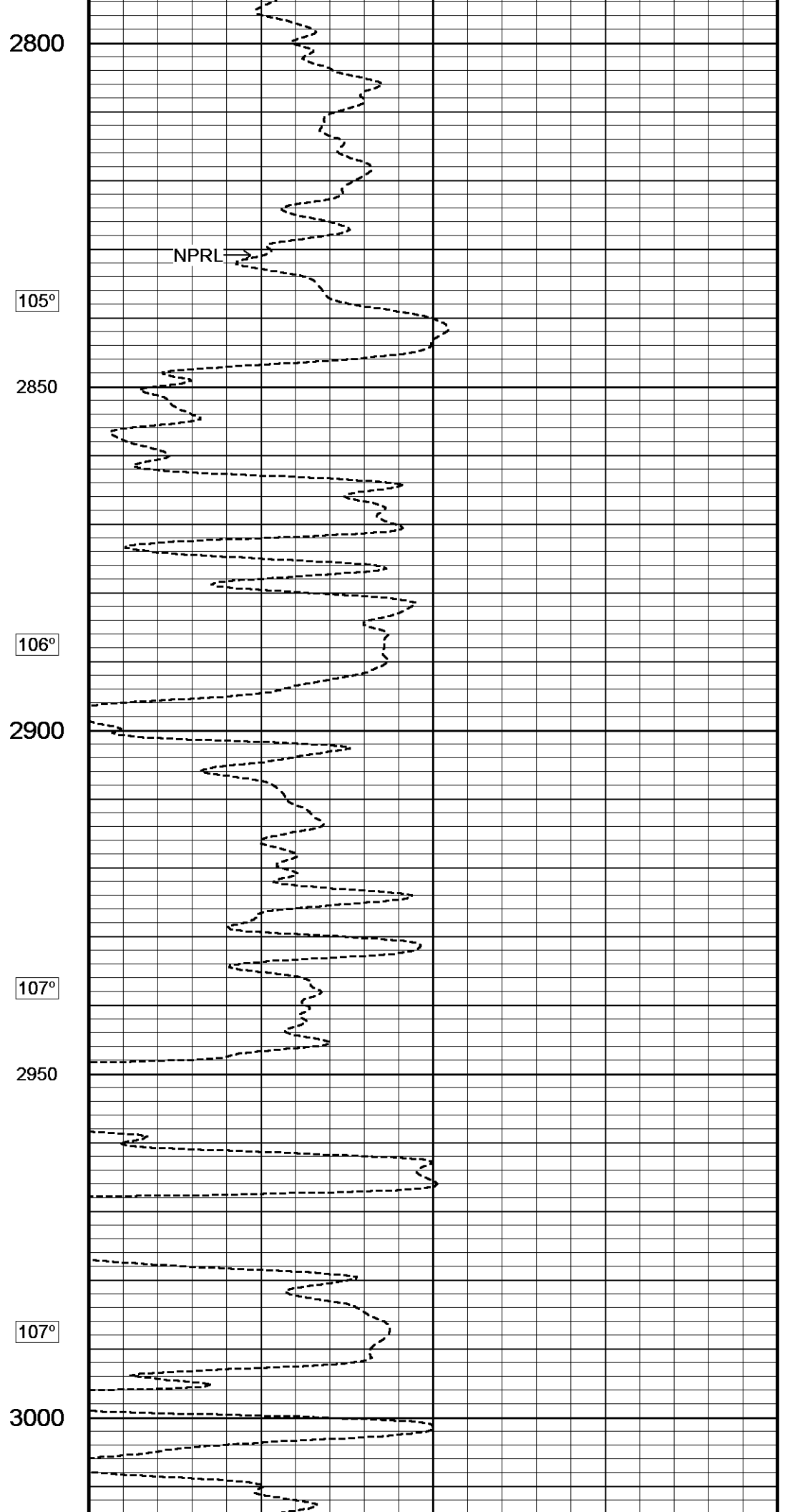
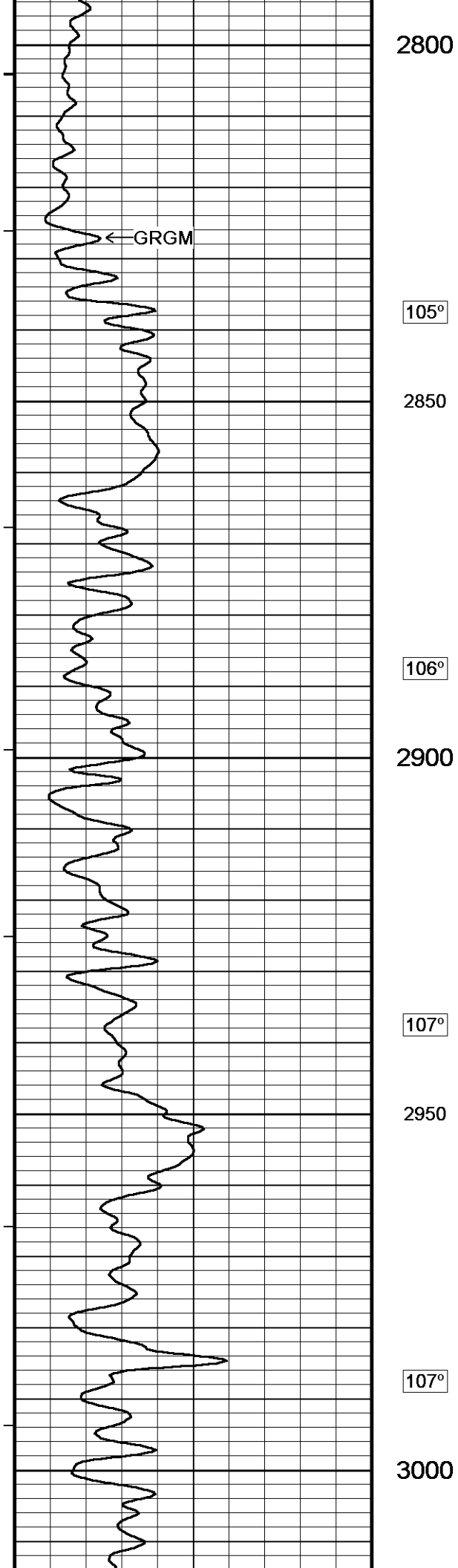
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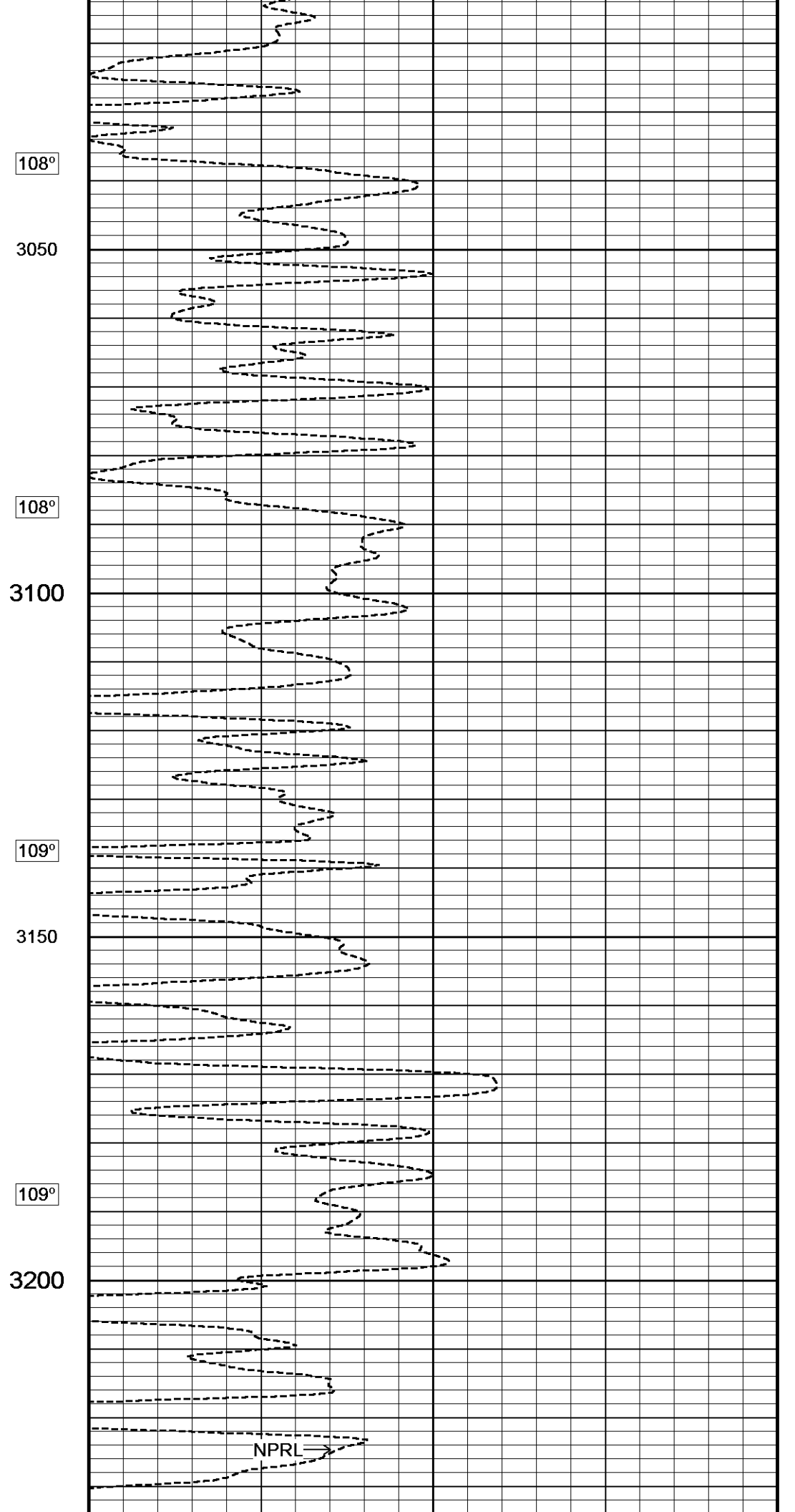
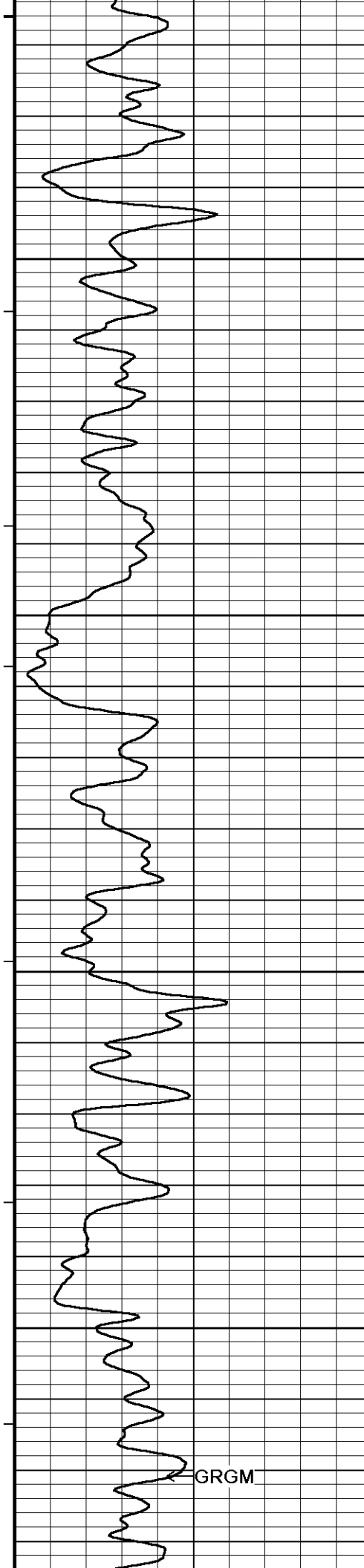
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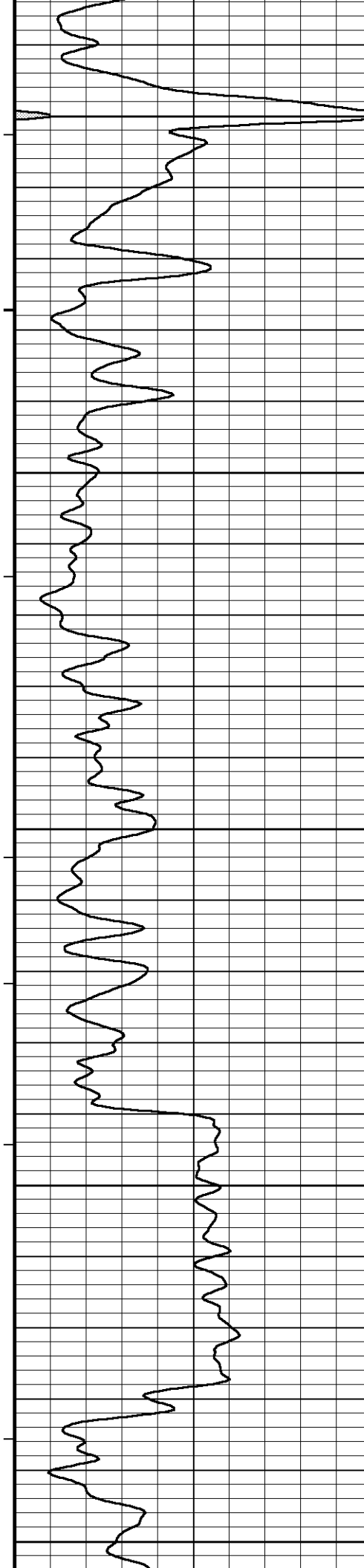
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104°









110°

3250

110°

3300

111°

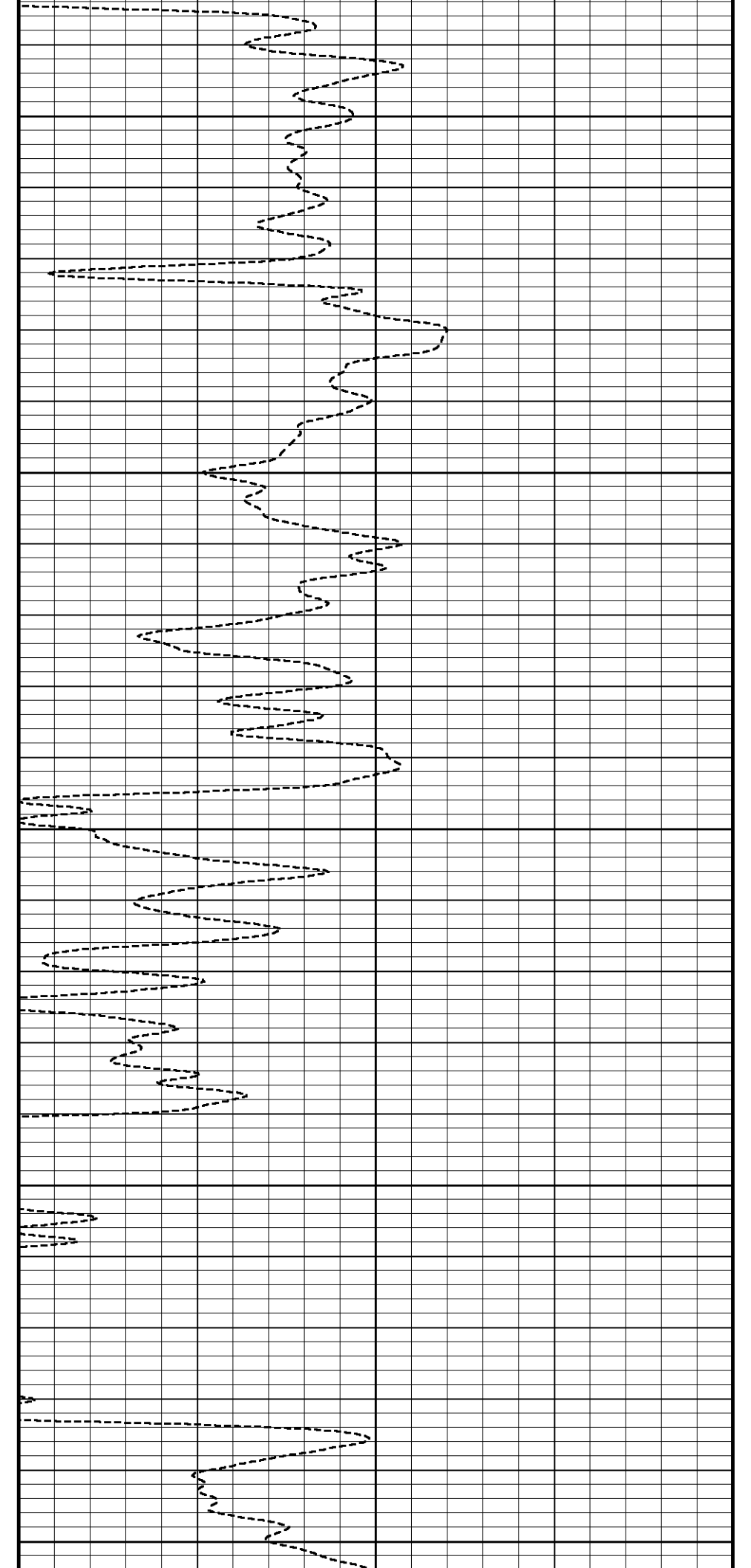
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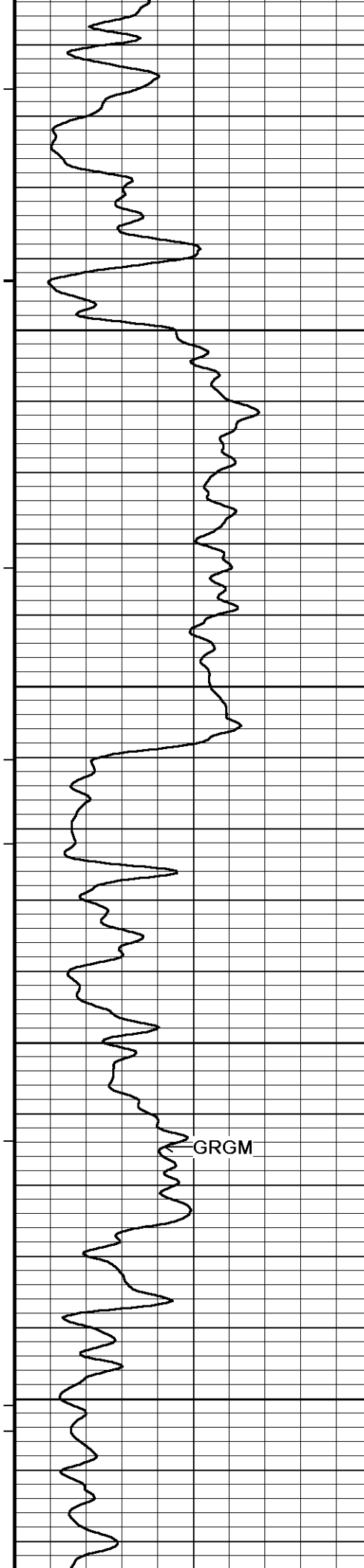
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3400

112°

3450





112°

3500

113°

3550

113°

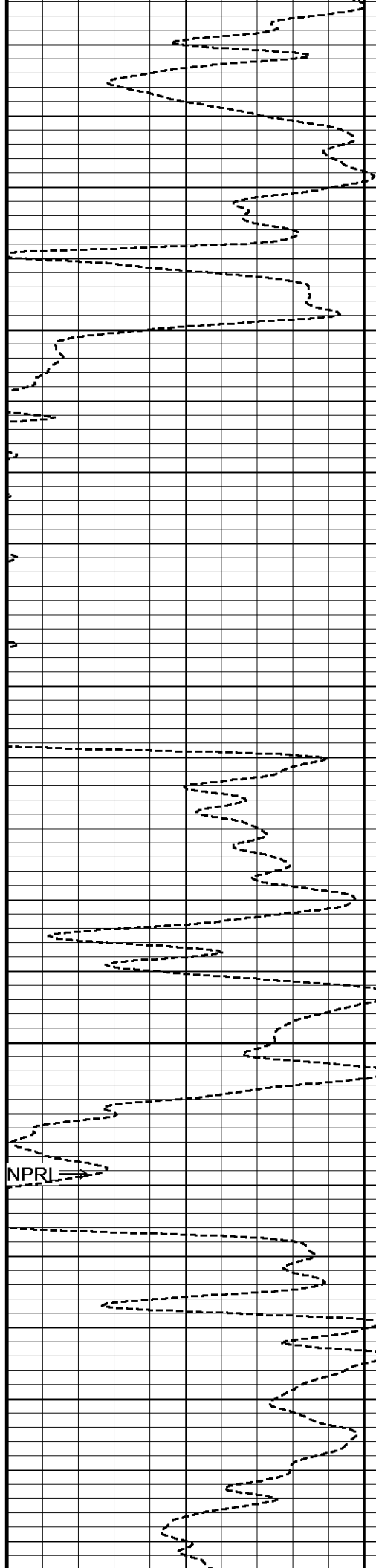
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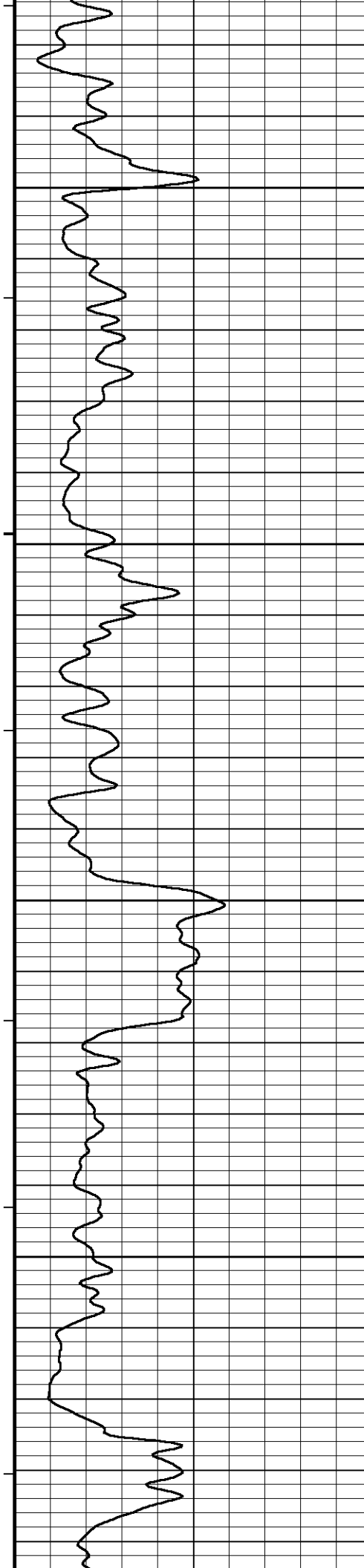
GRGM

NPRI

114°

3650





114°

3700

115°

3750

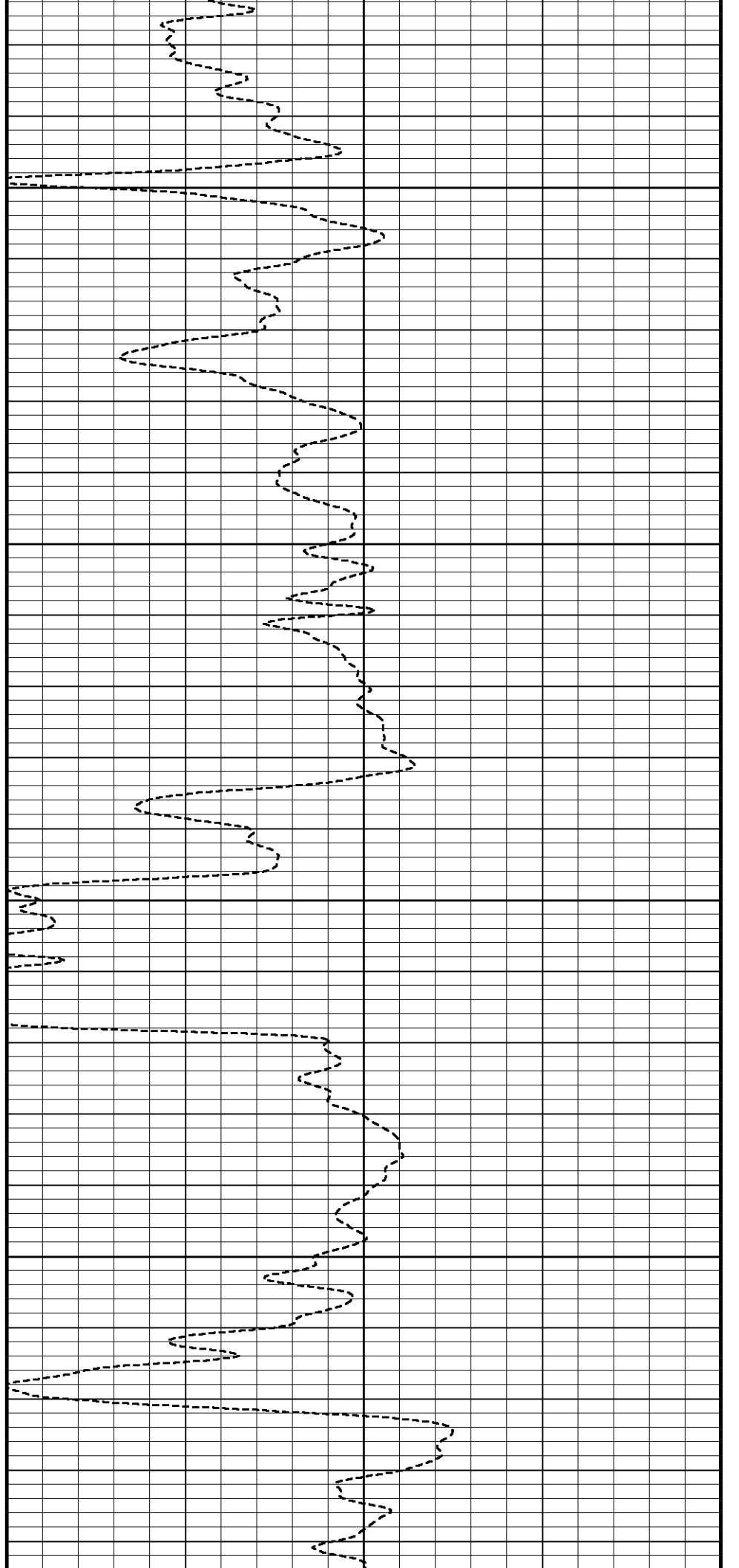
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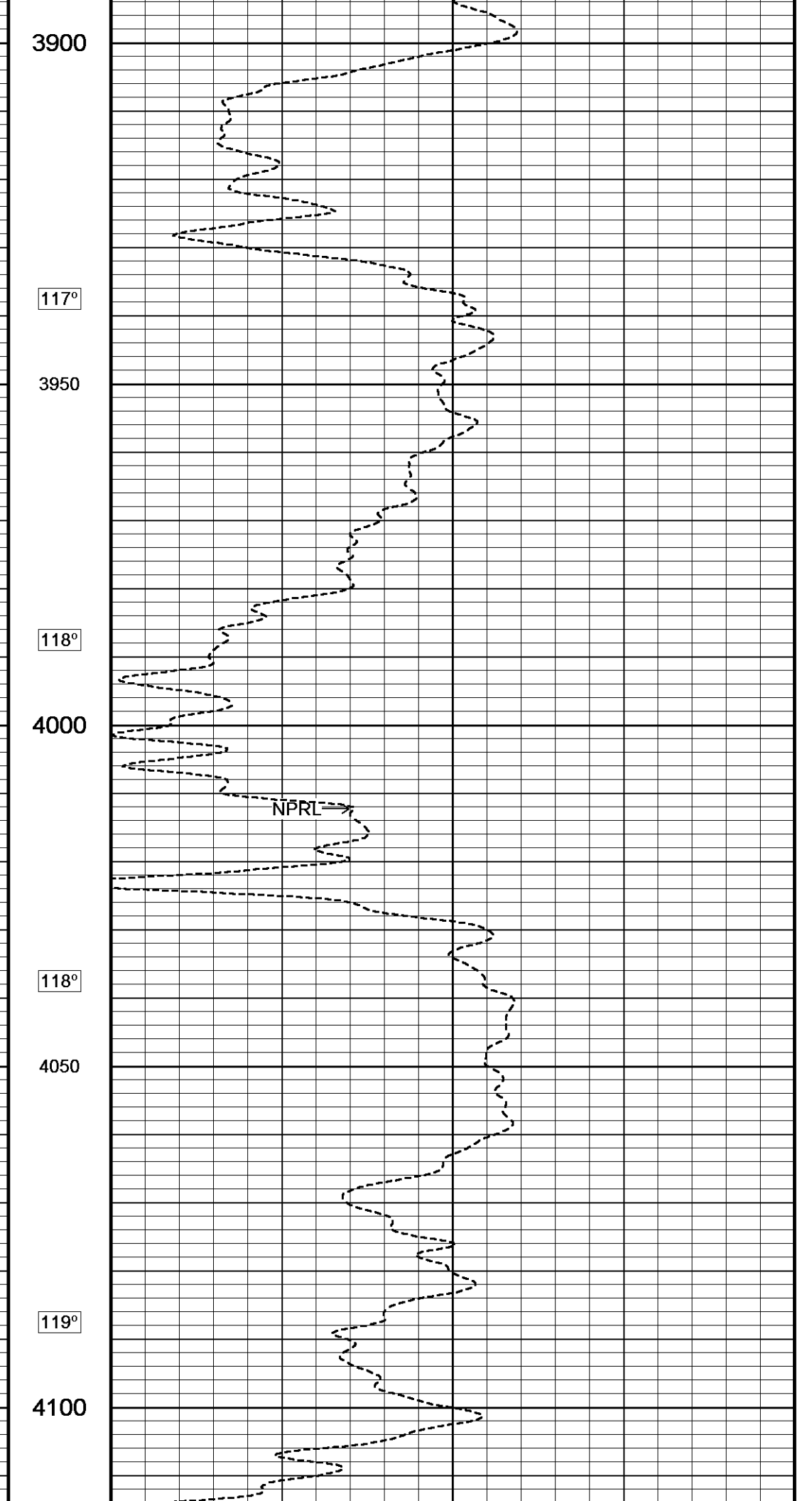
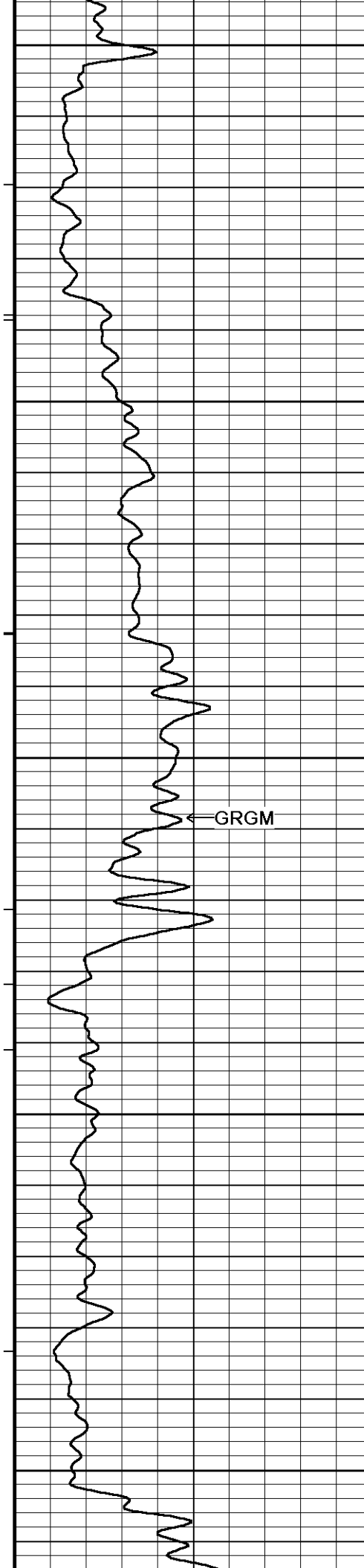
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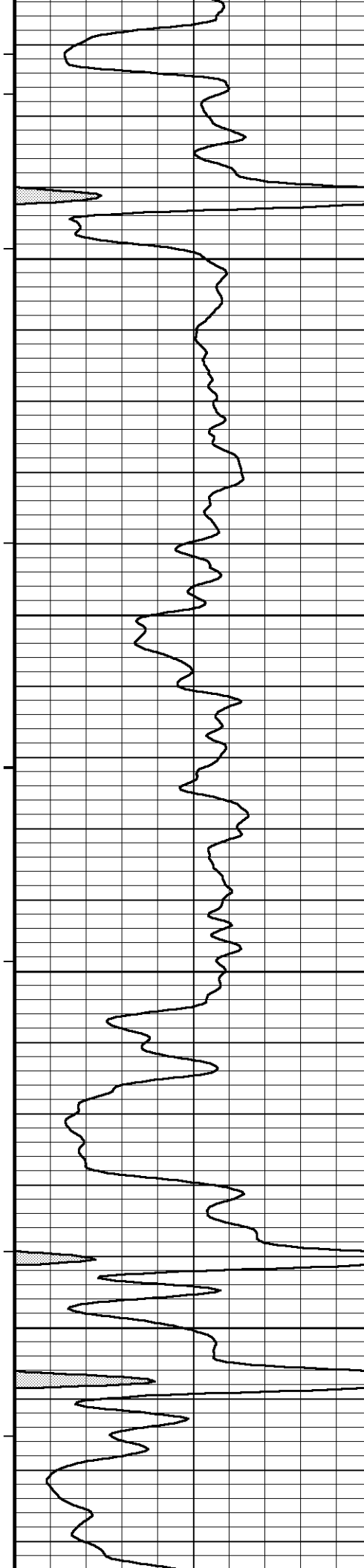
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3850

117°







119°

4150

120°

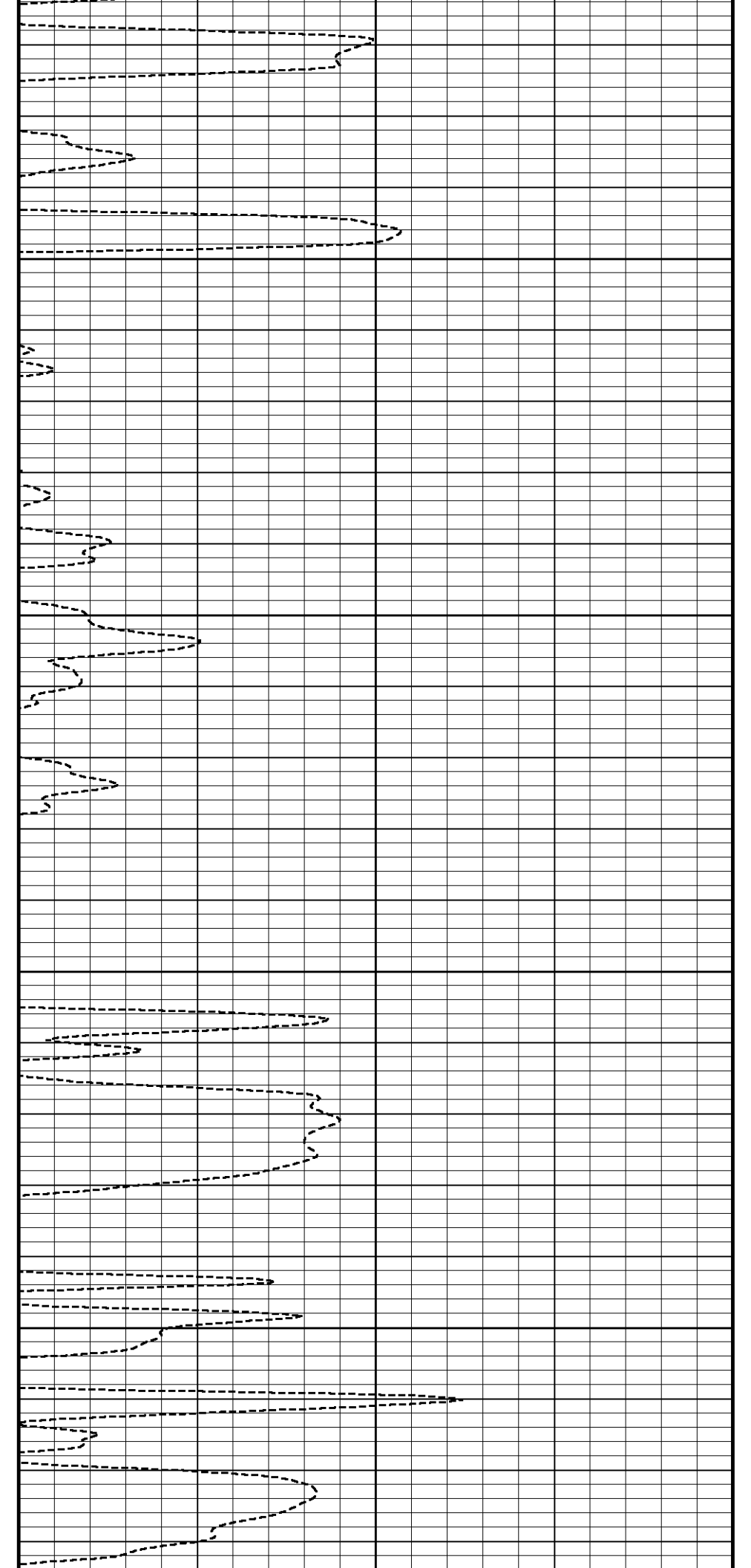
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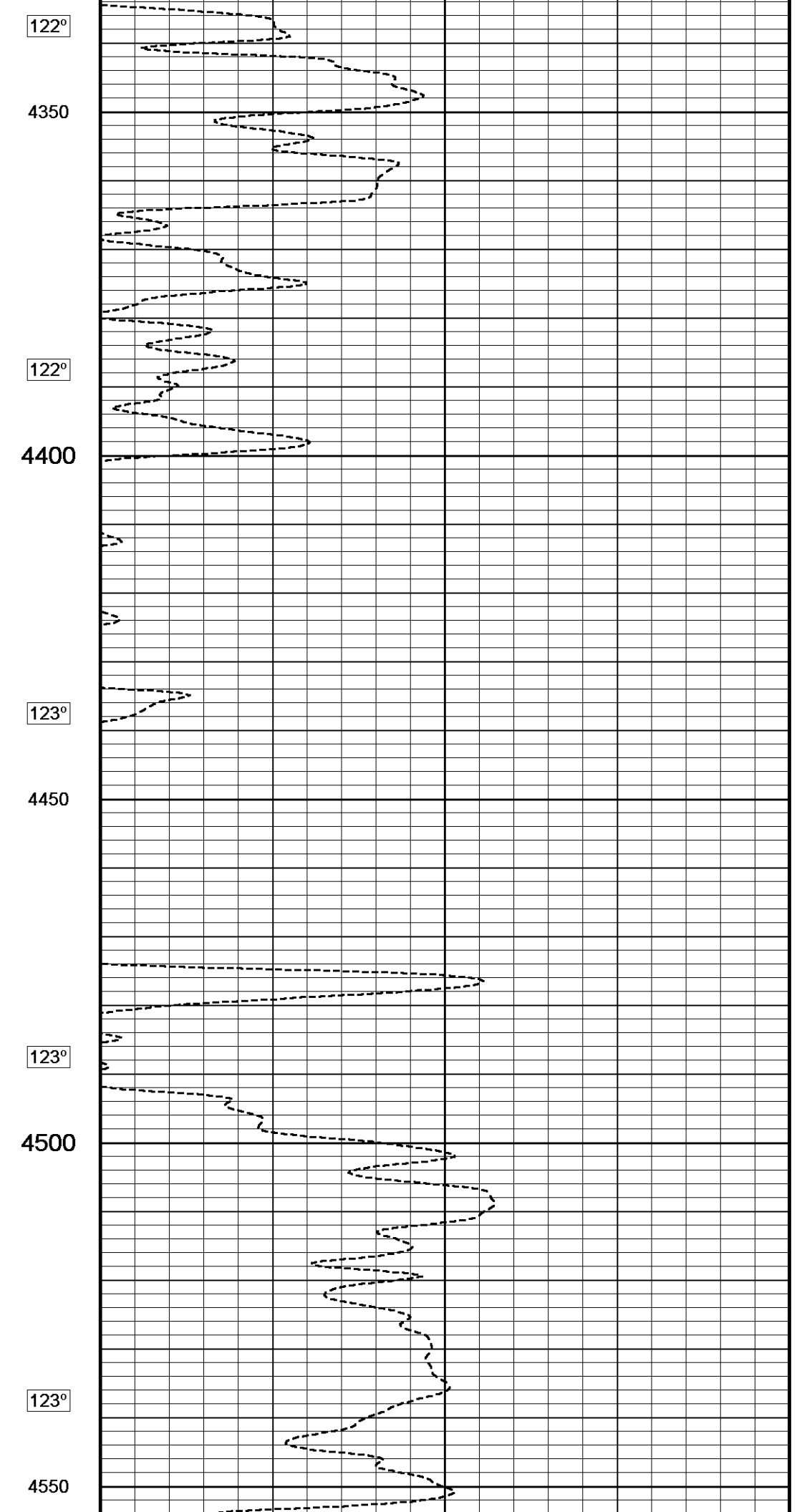
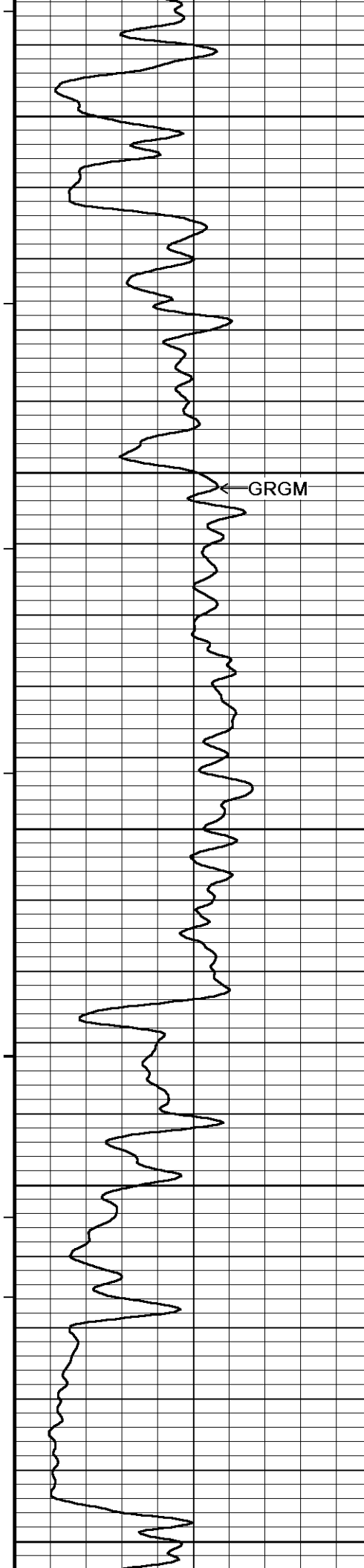
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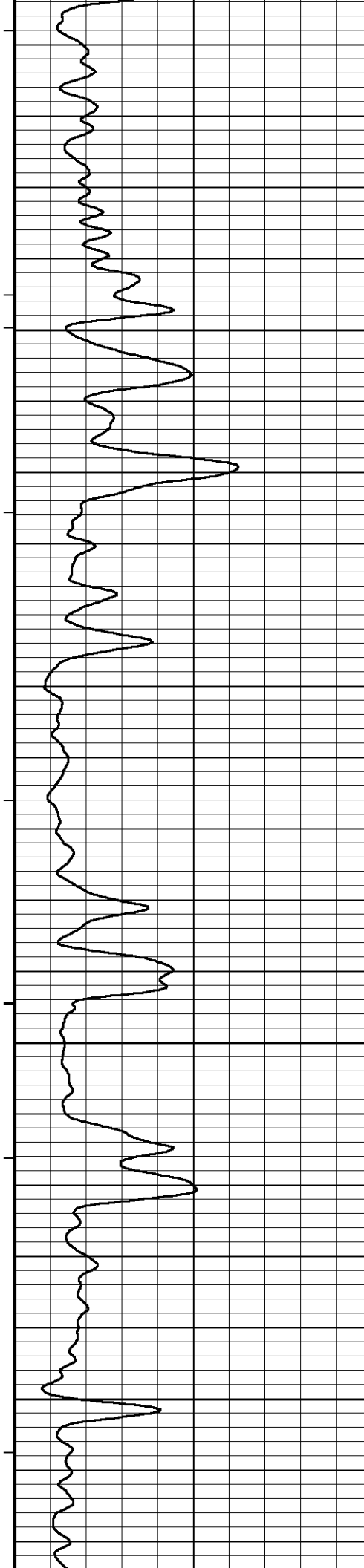
4250

121°

4300







124°

4600

124°

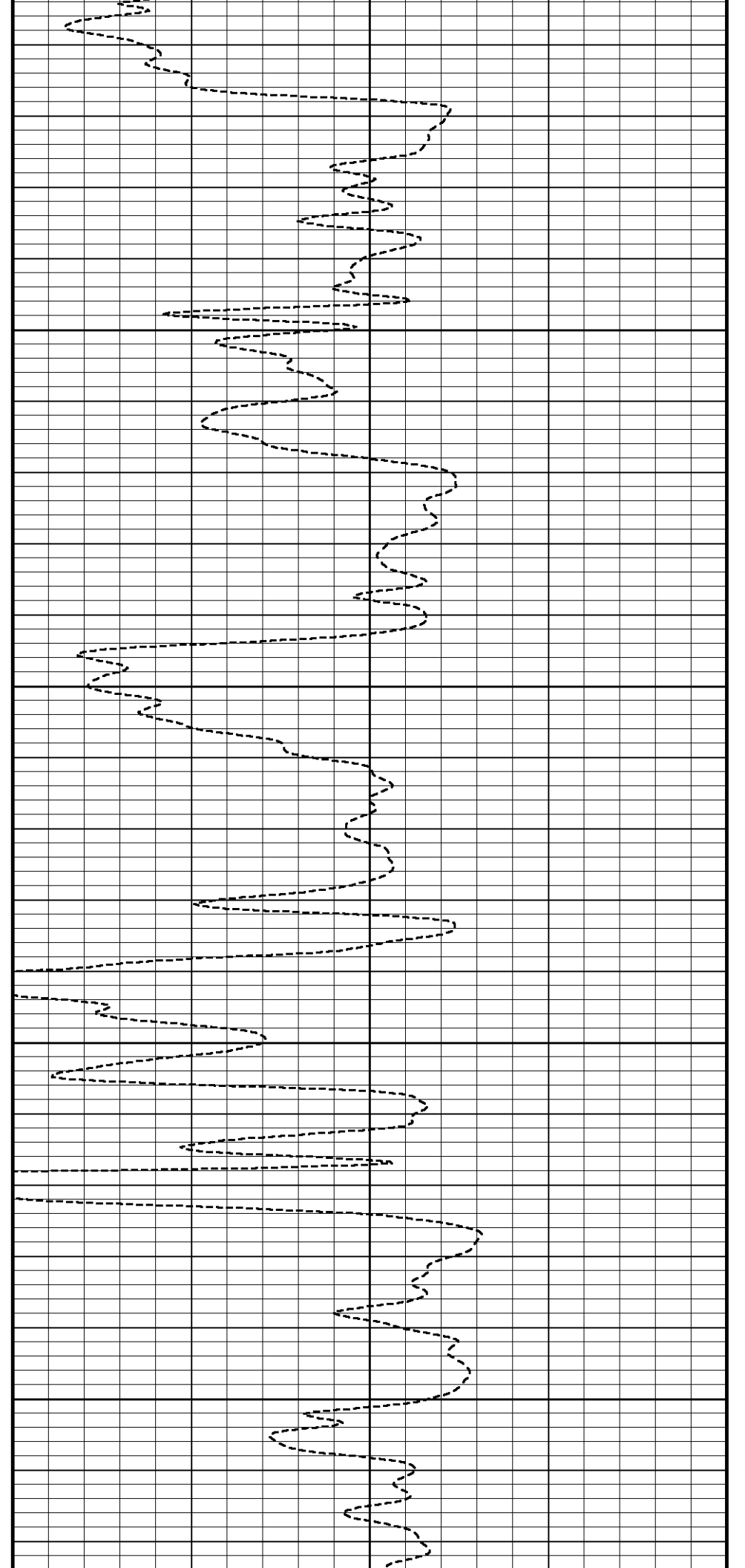
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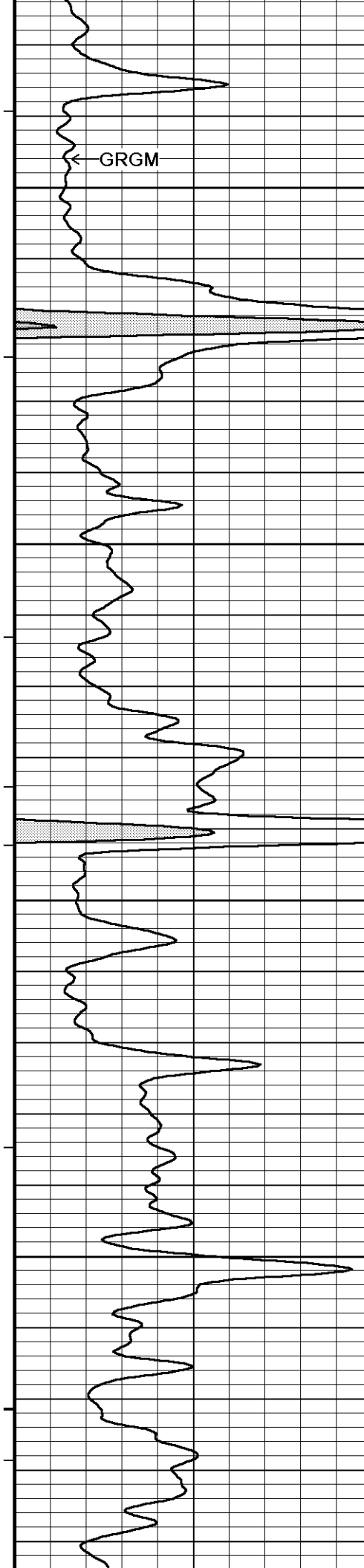
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4700

125°

4750





125°

4800

126°

4850

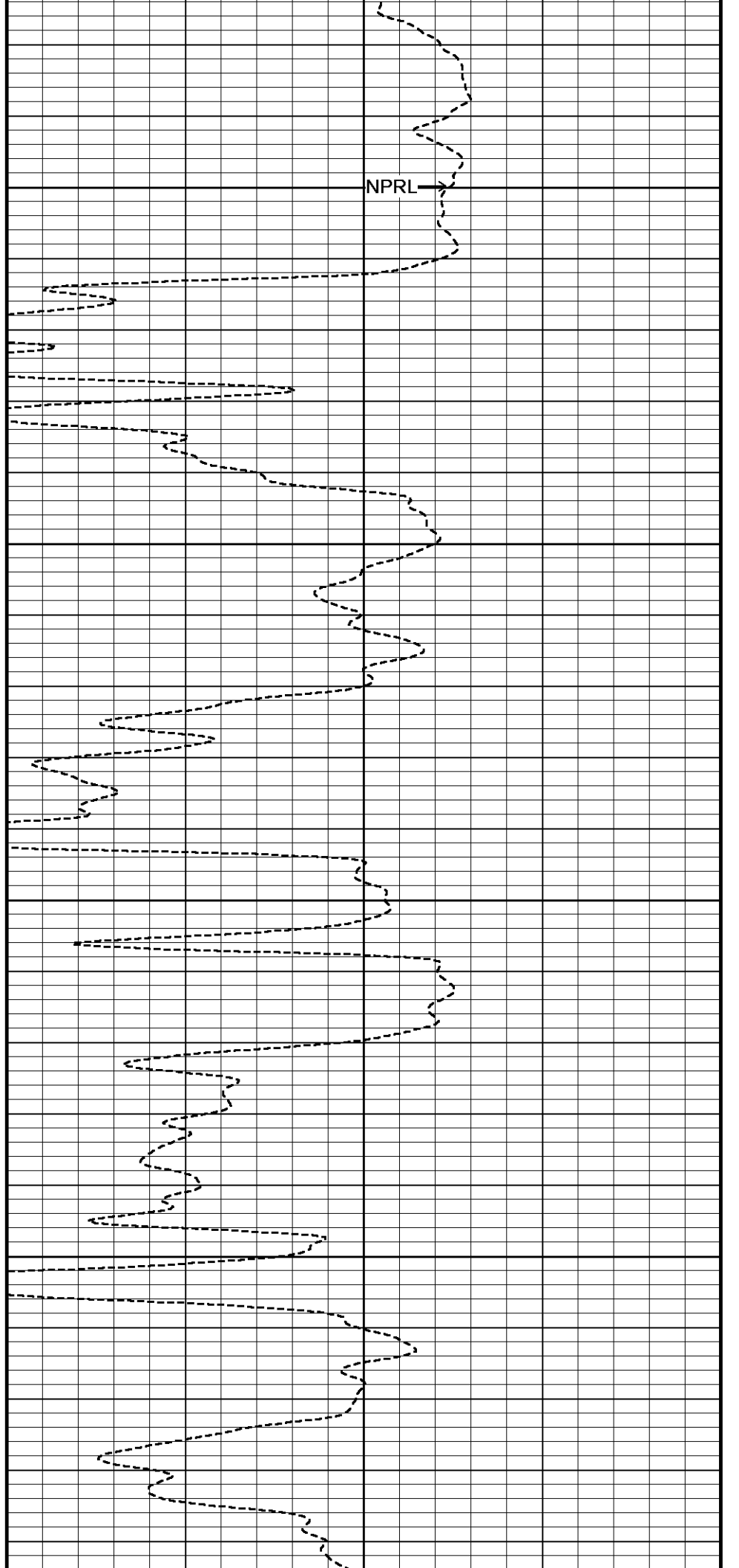
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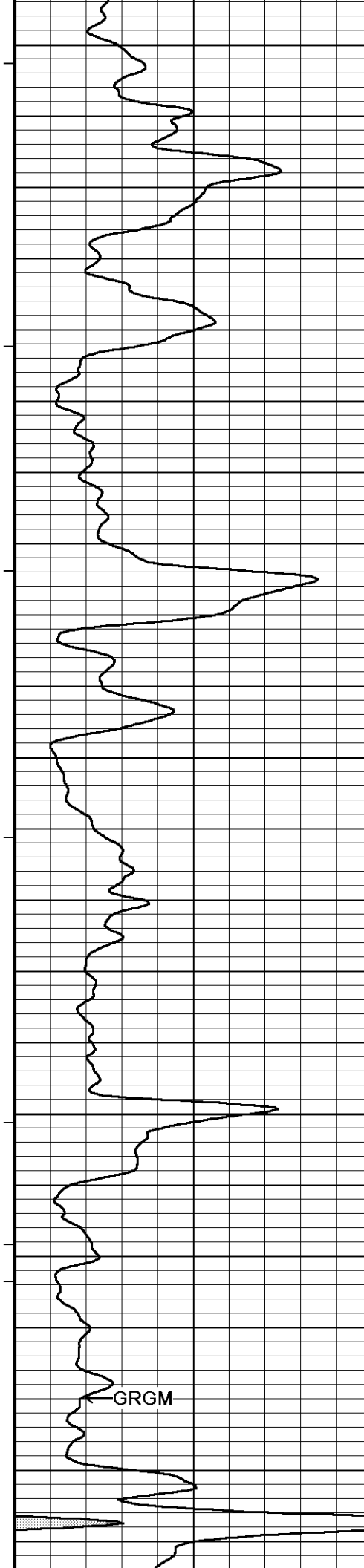
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127°

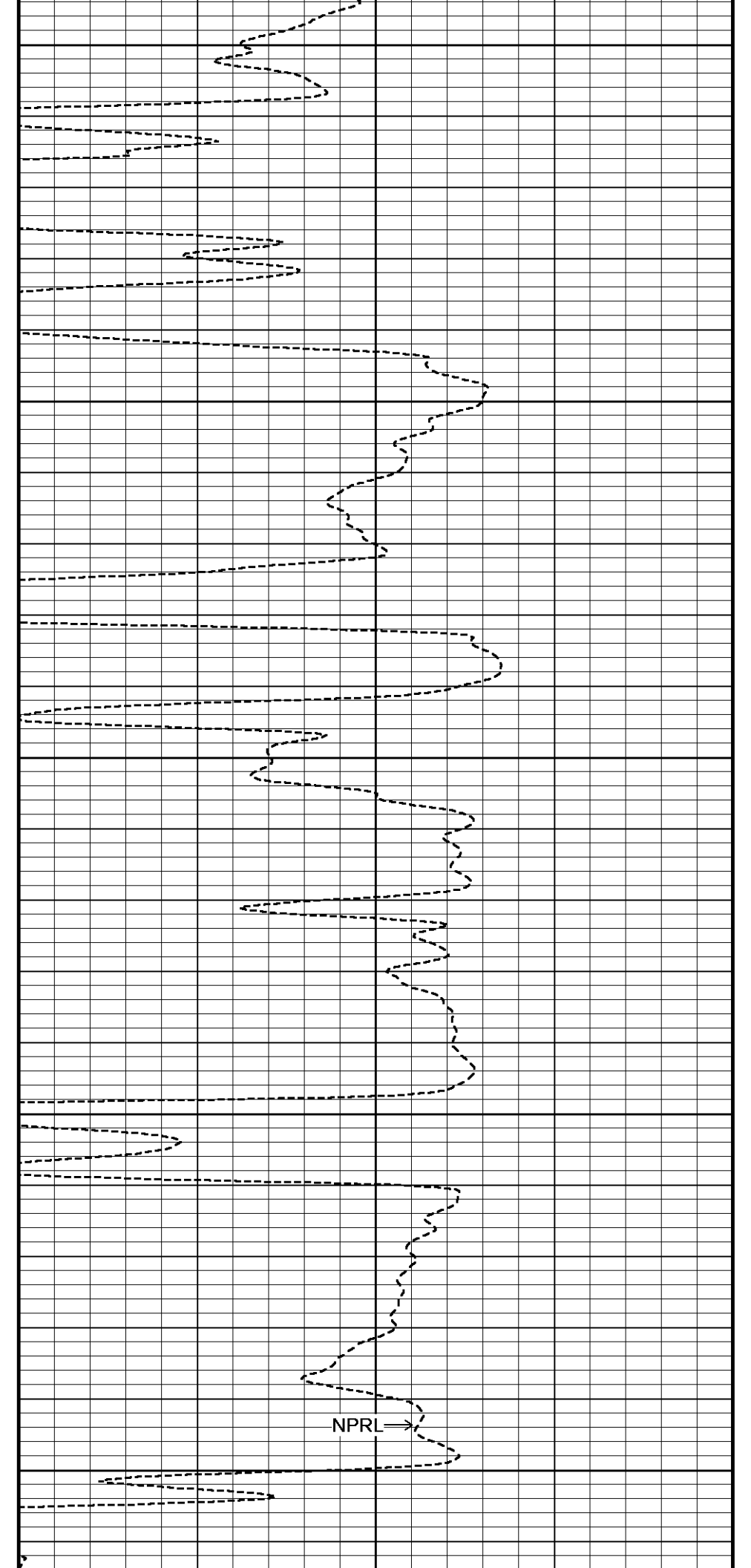
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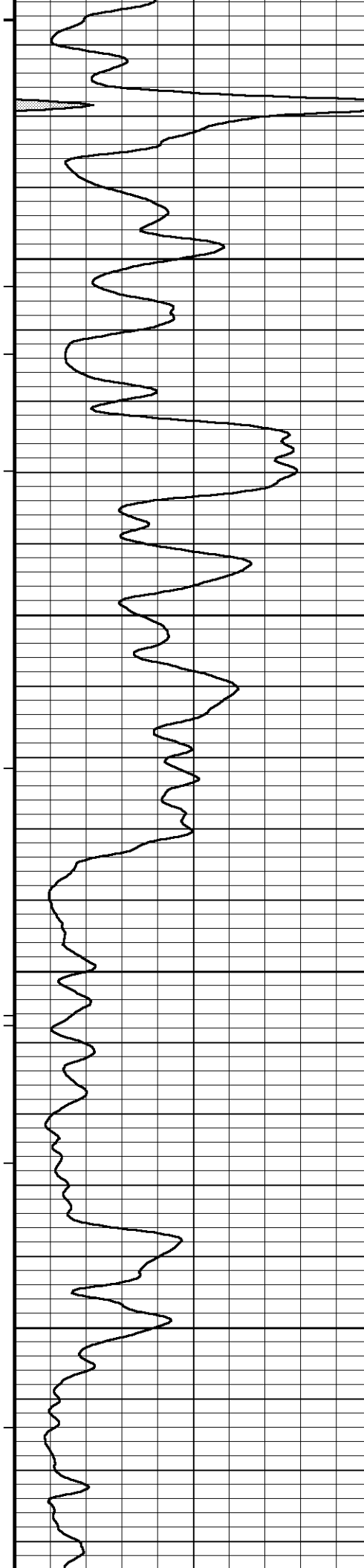
127°





5000
128°
5050
128°
5100
128°
5150
129°
5200





129°

5250

129°

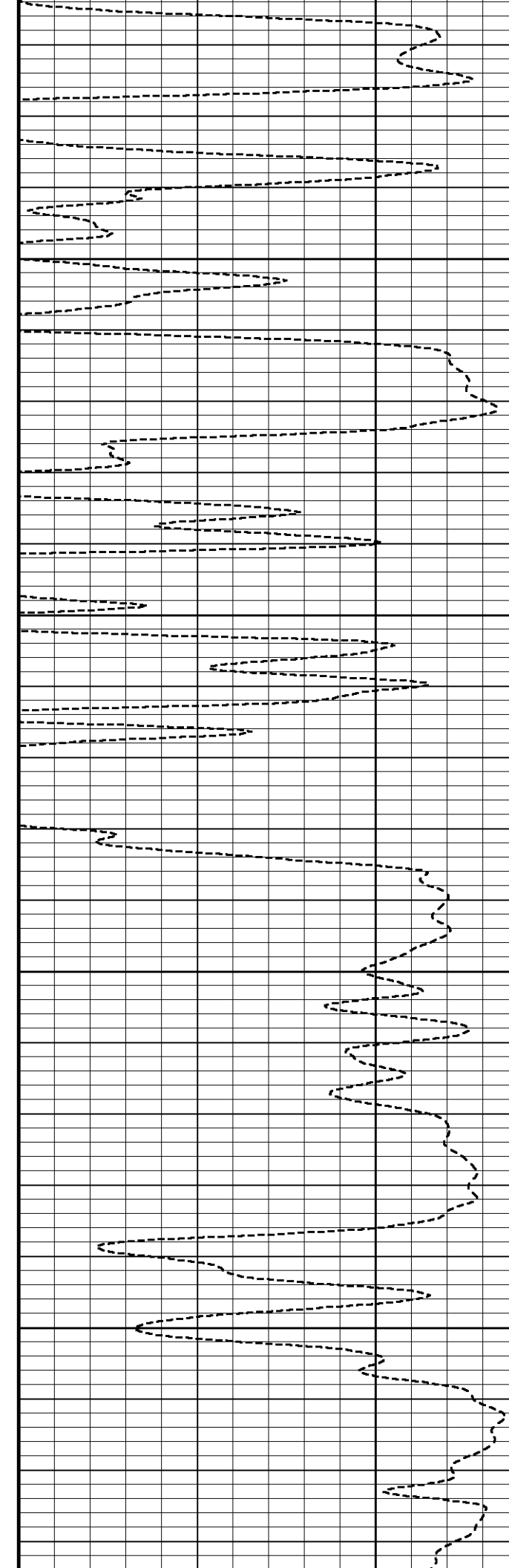
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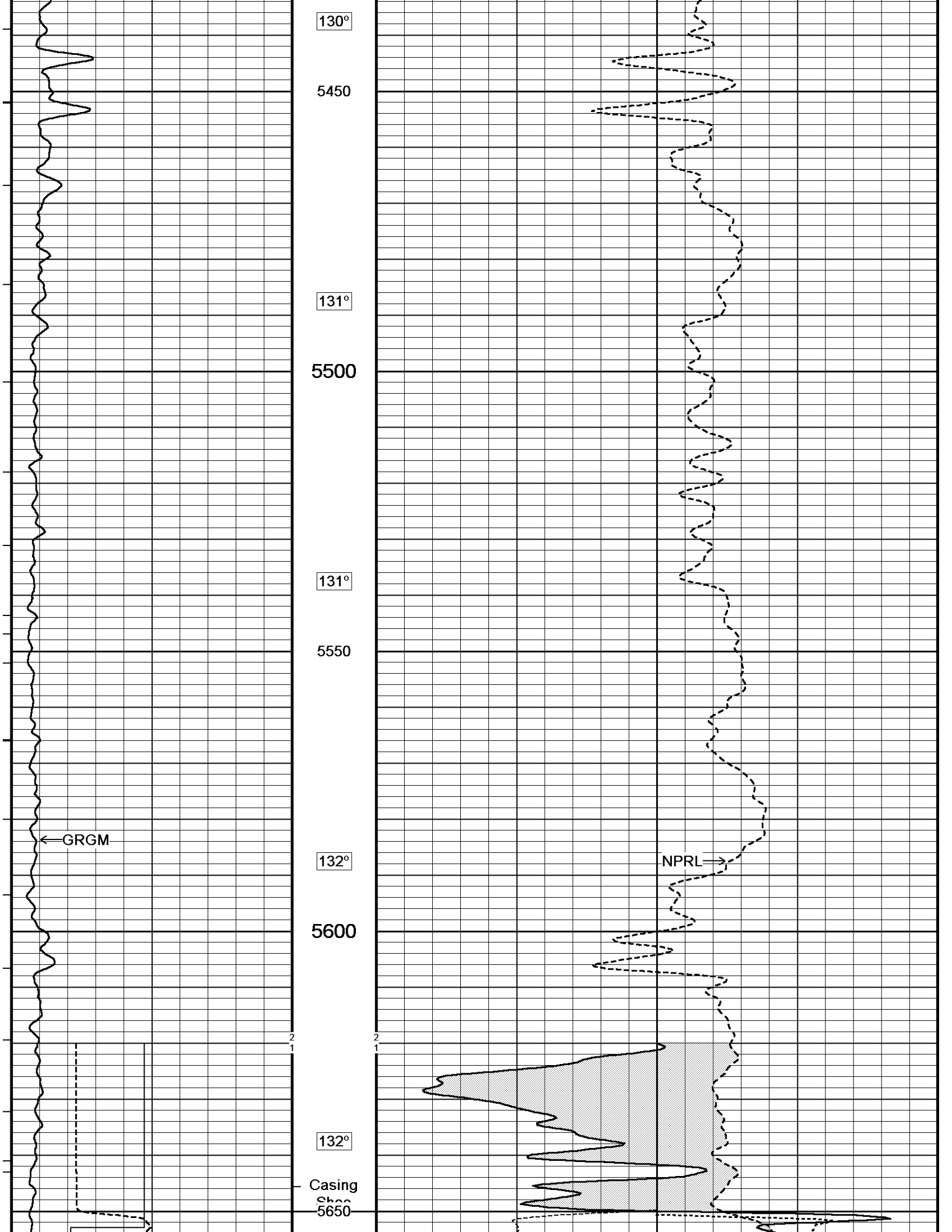
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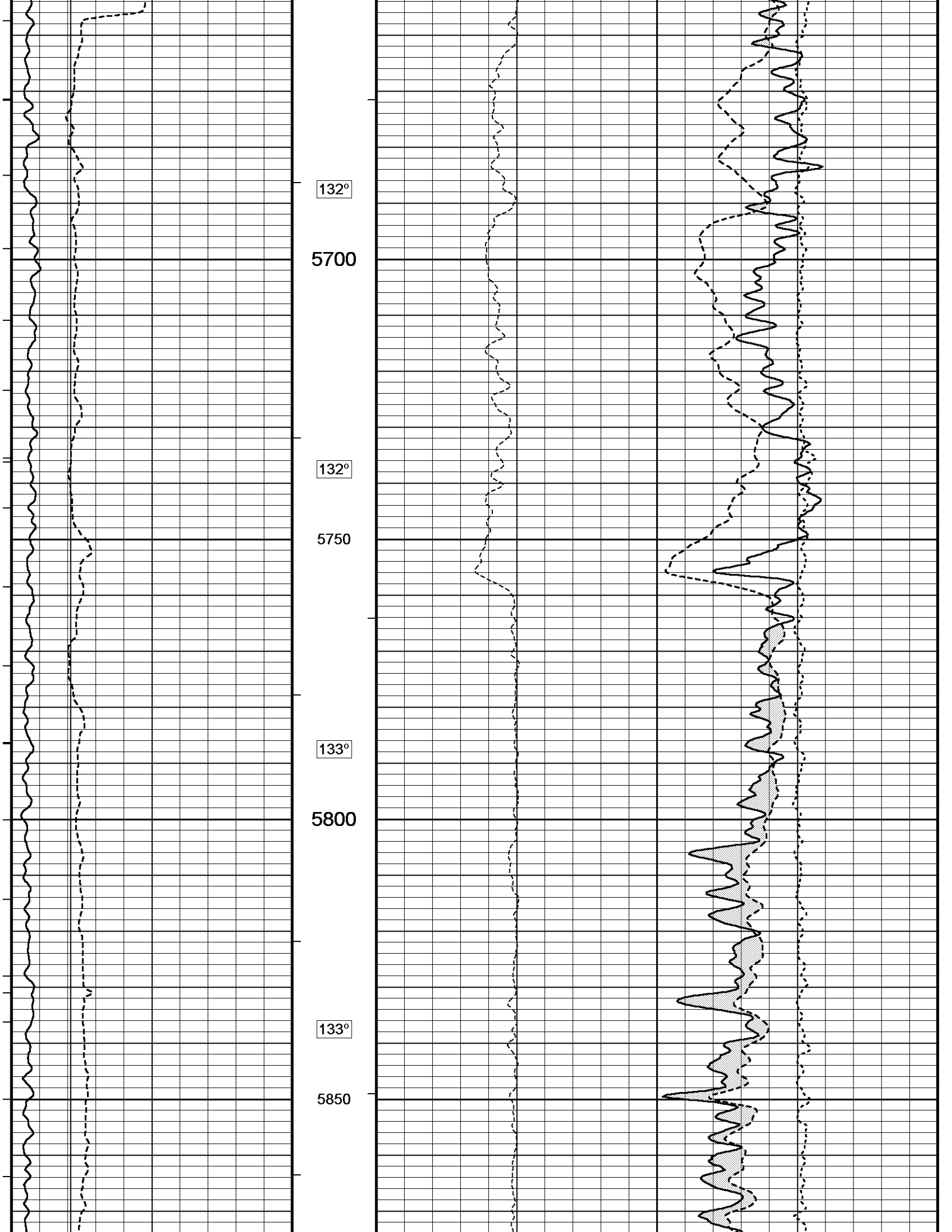
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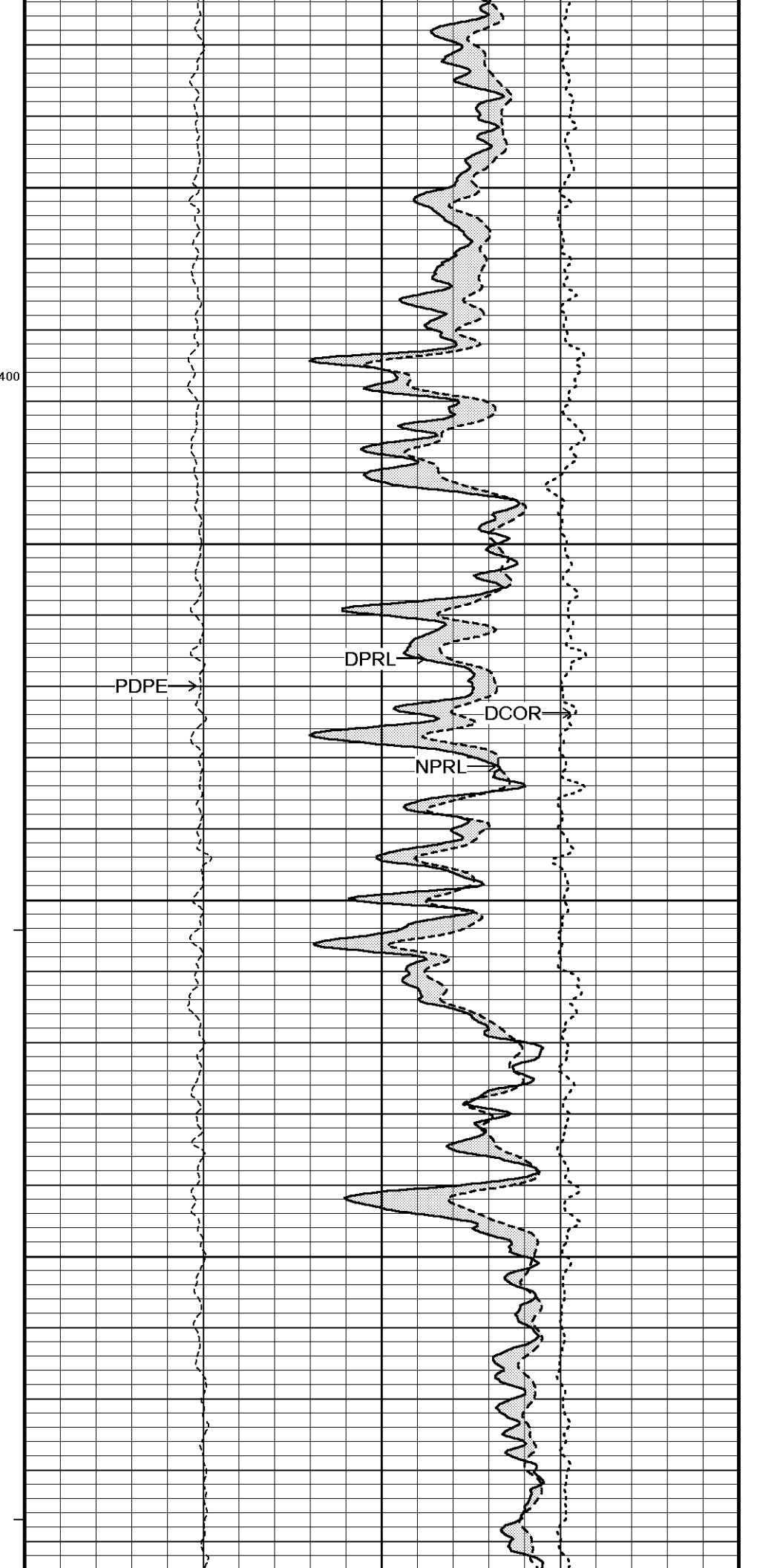
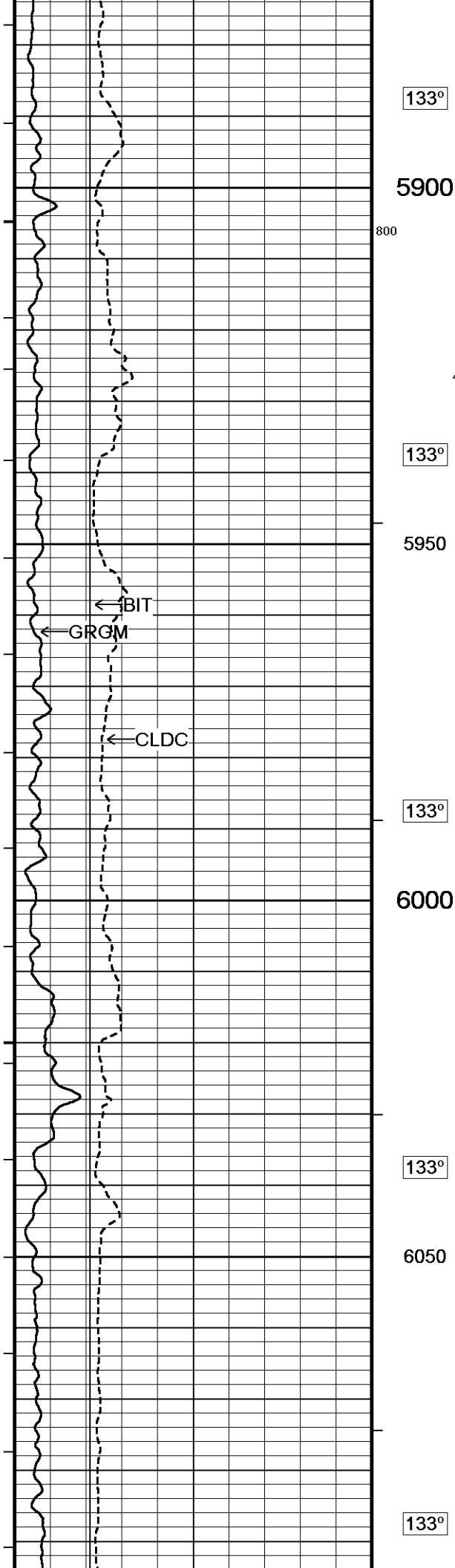
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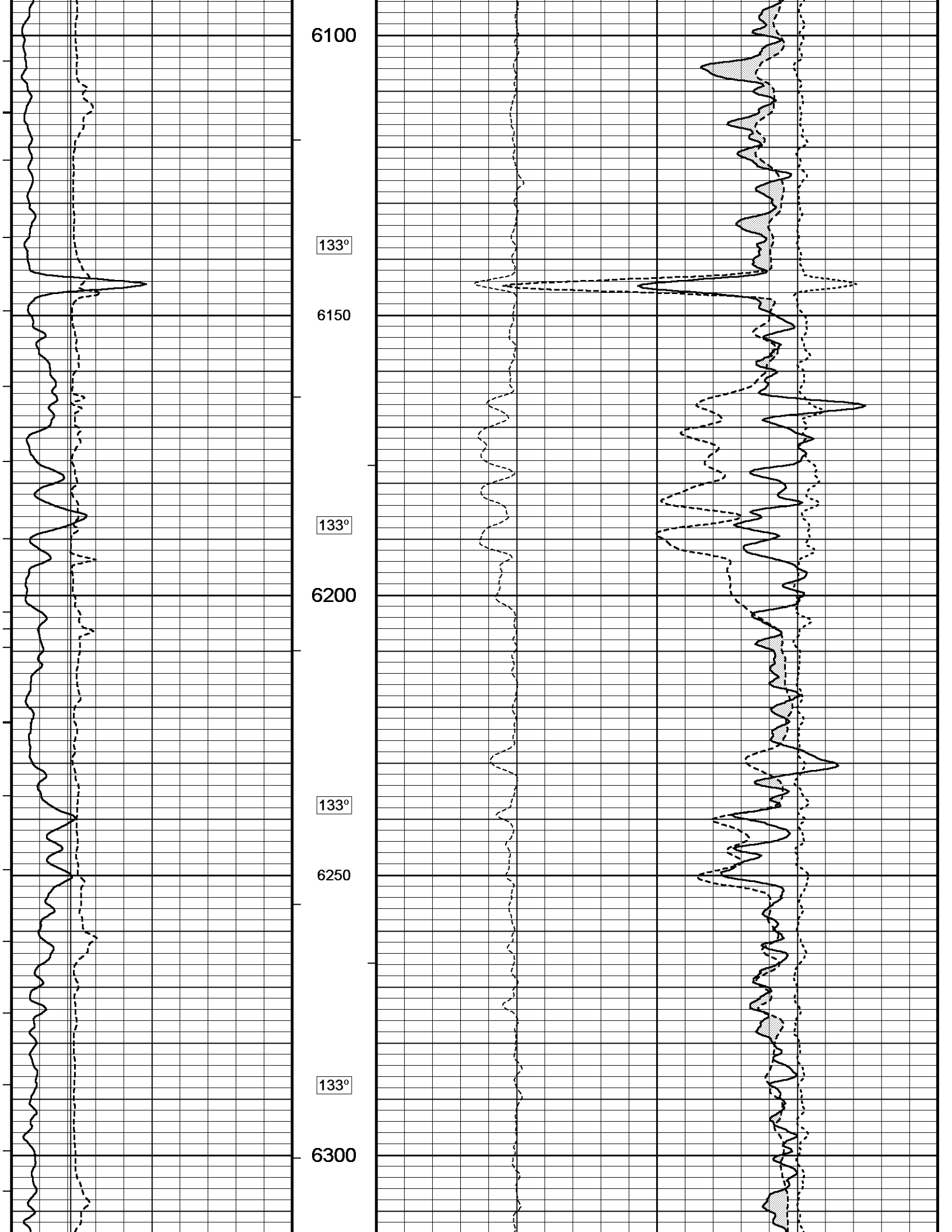
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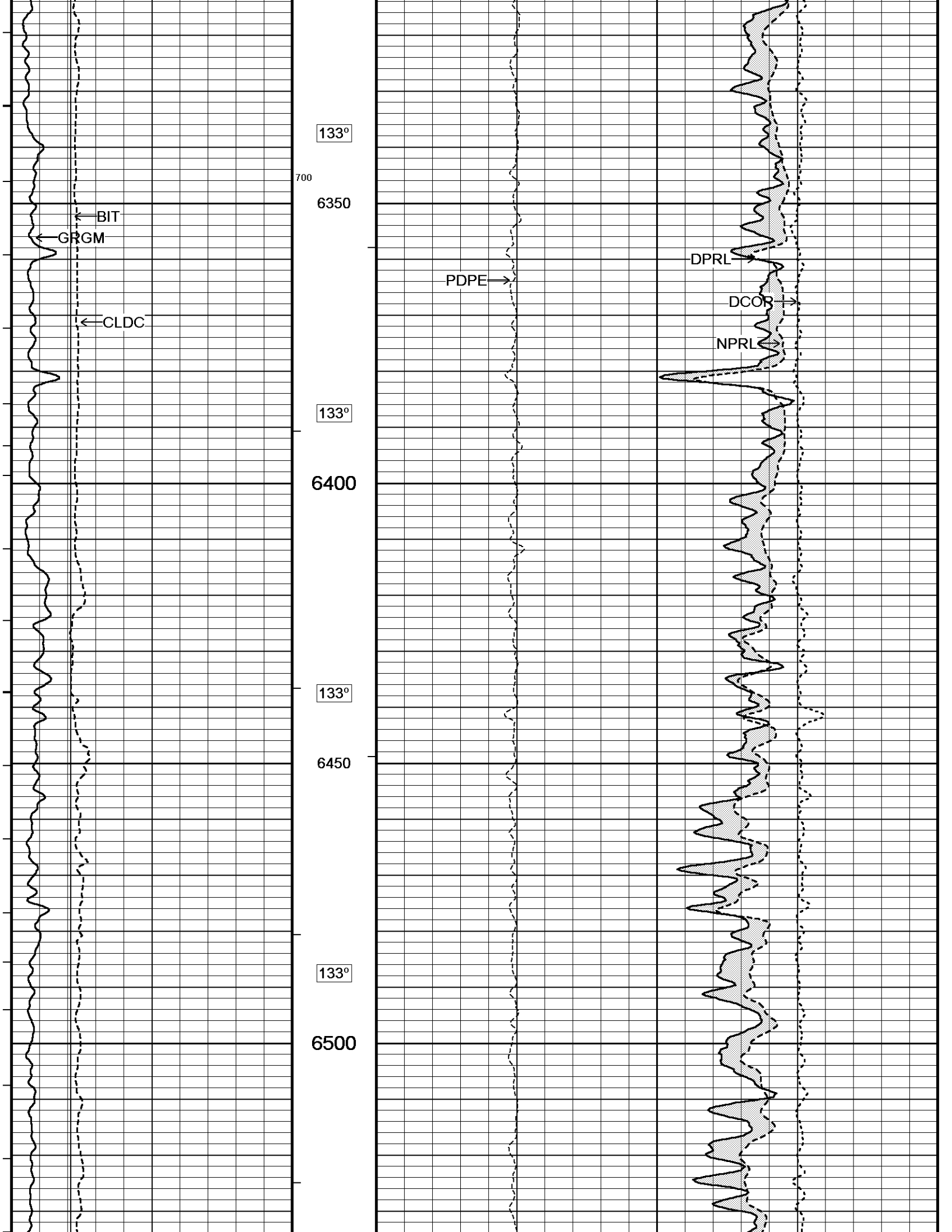


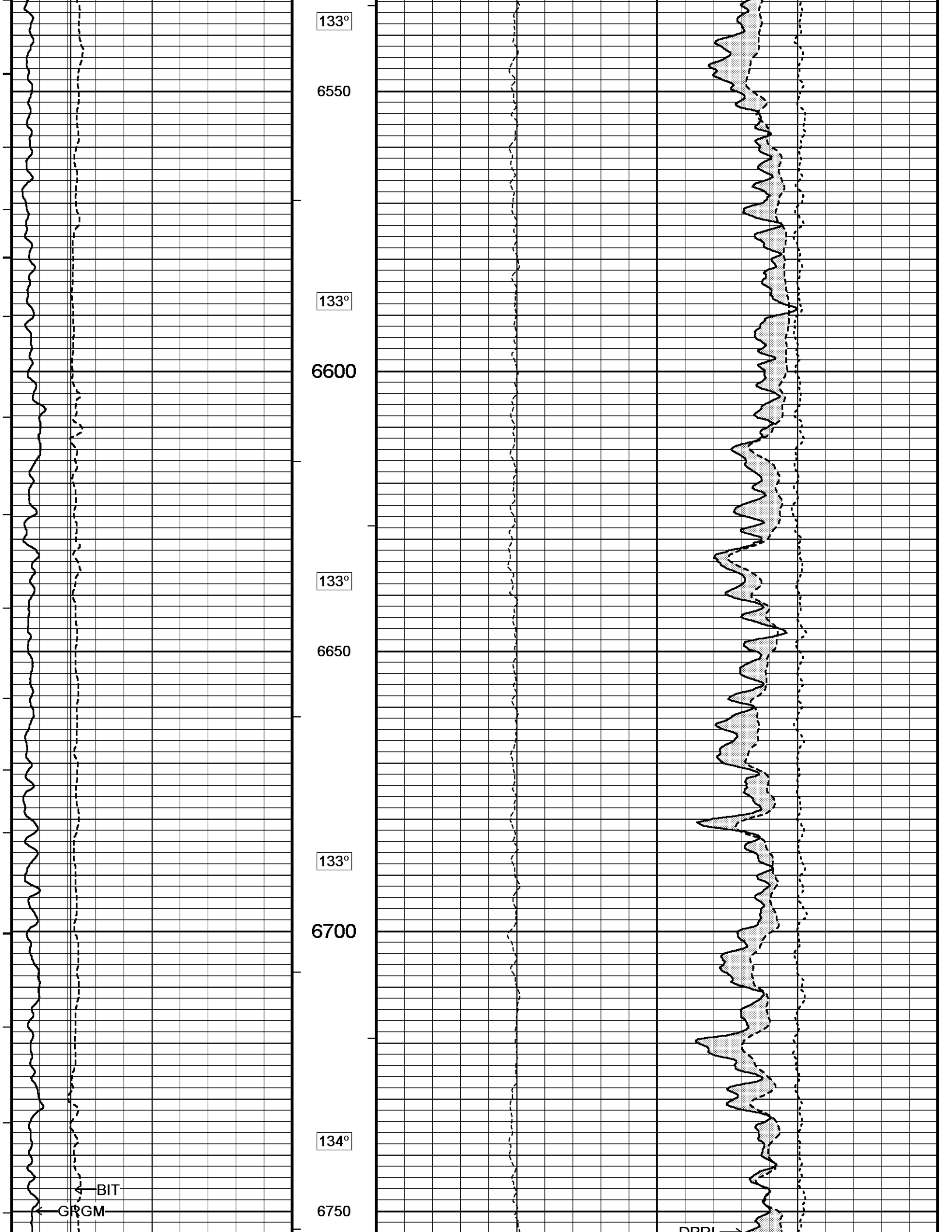


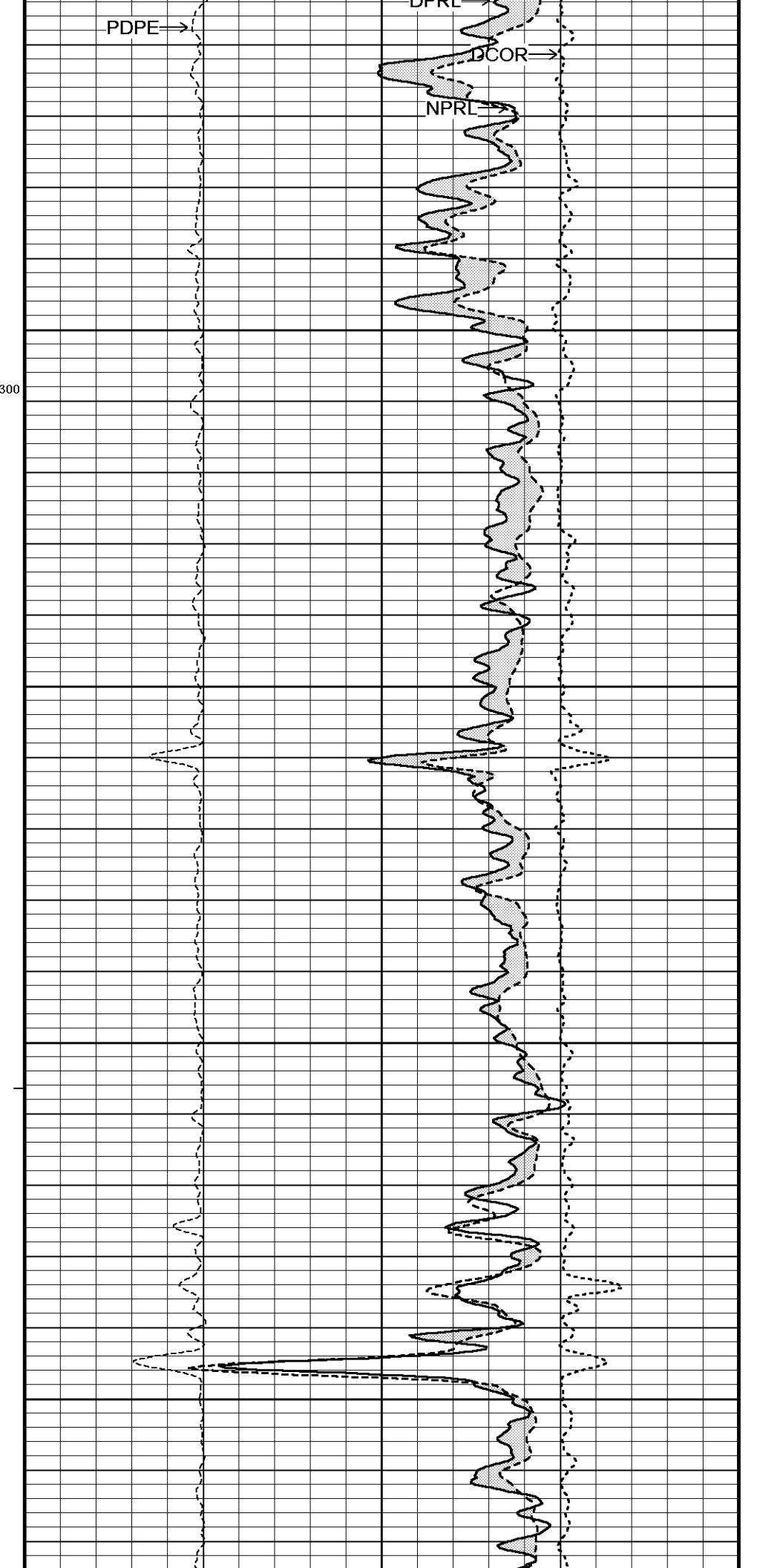
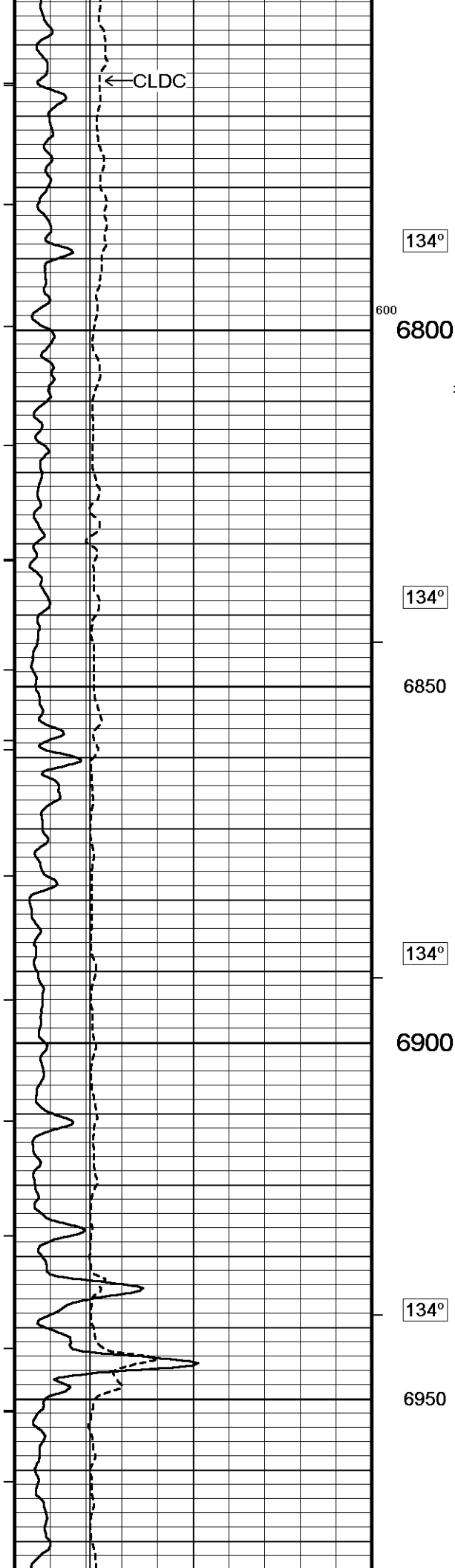


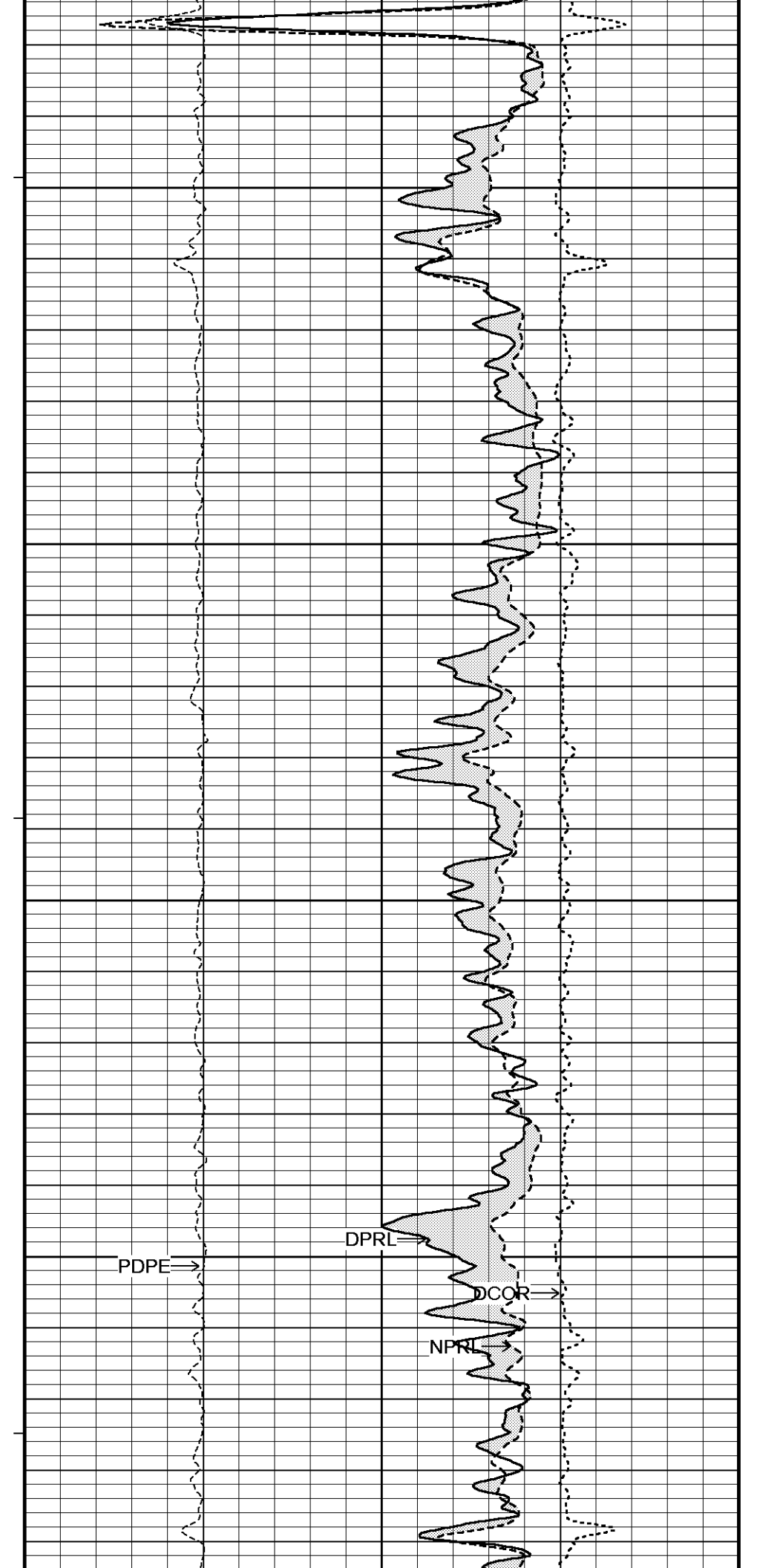
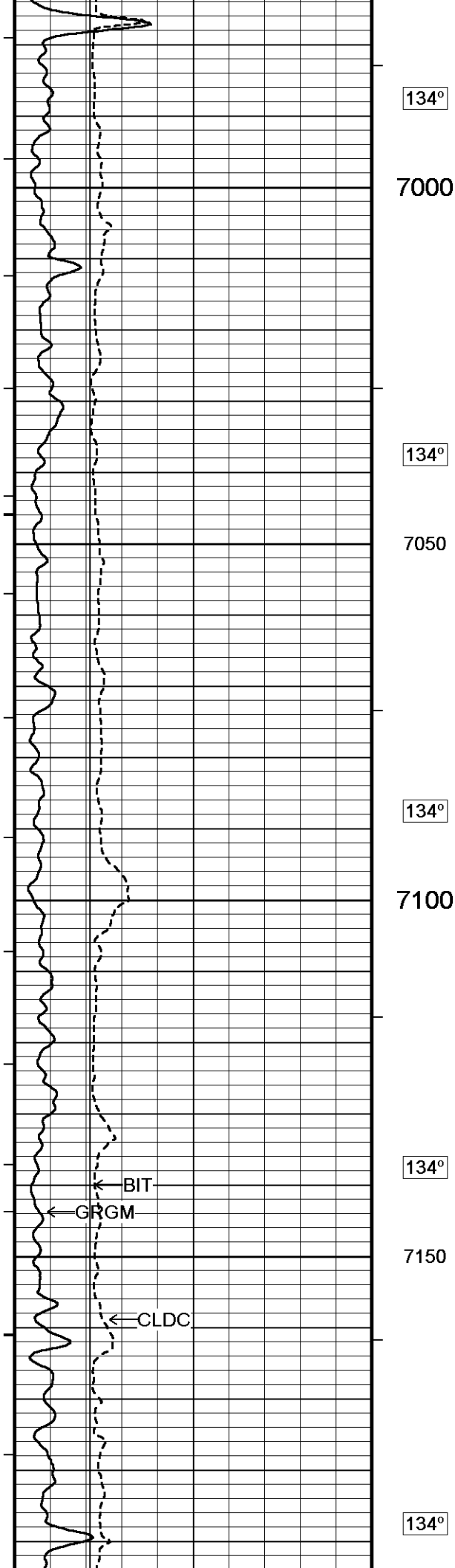


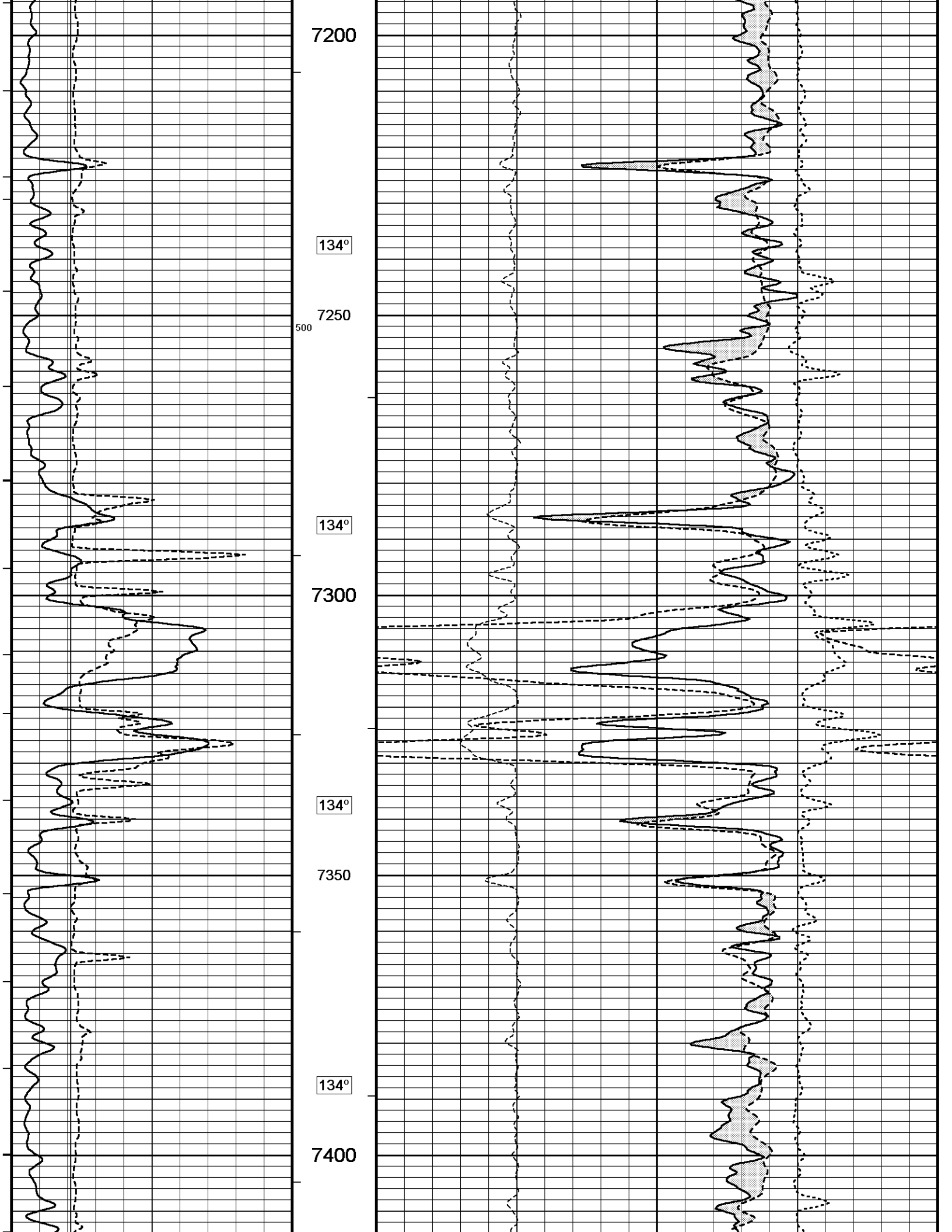


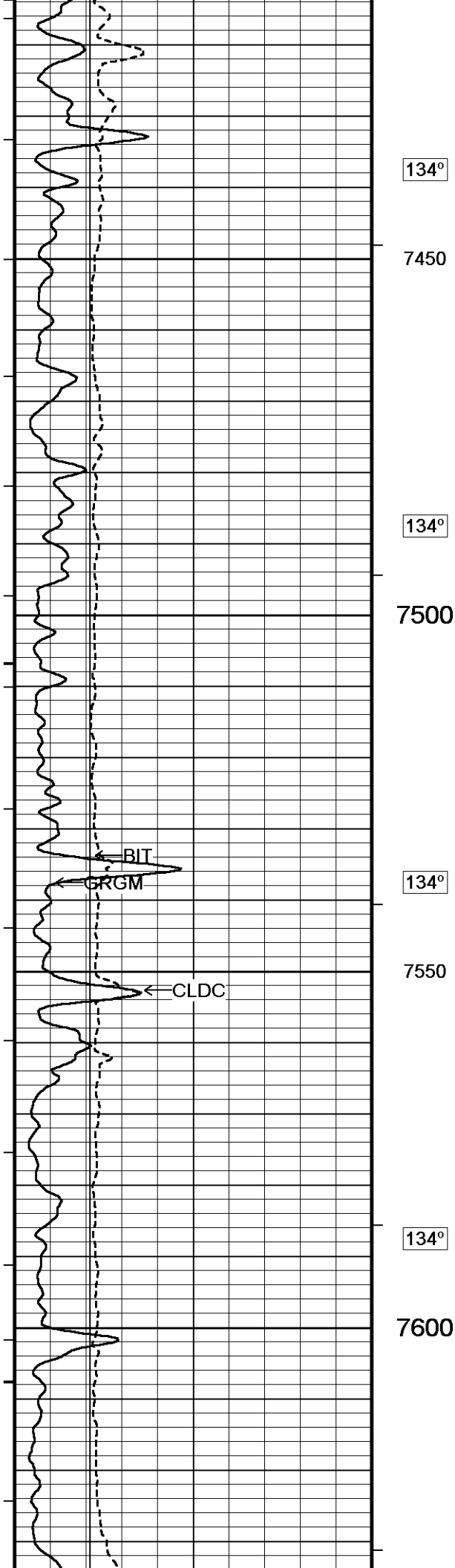












134°

7450

134°

7500

134°

7550

134°

7600

BIT

GRGM

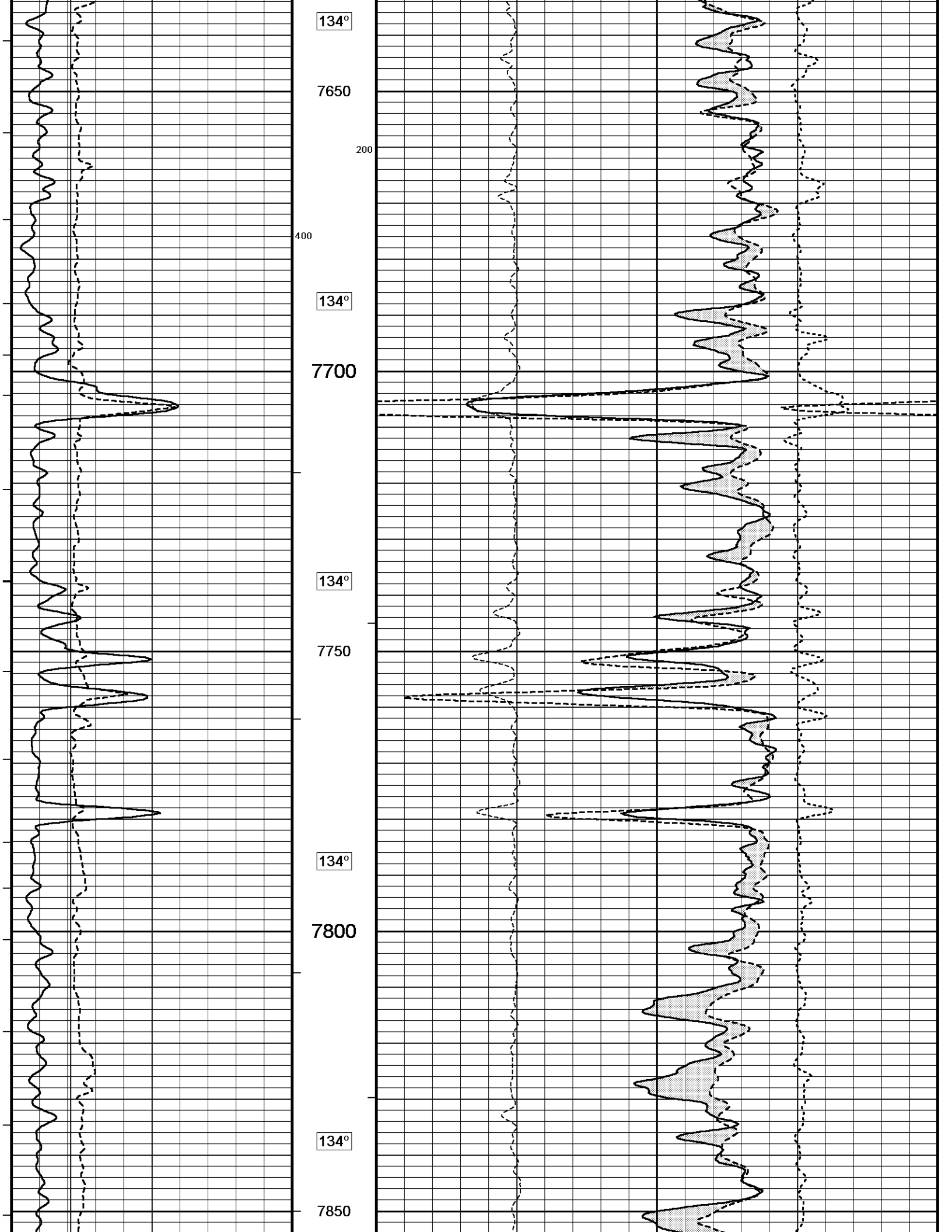
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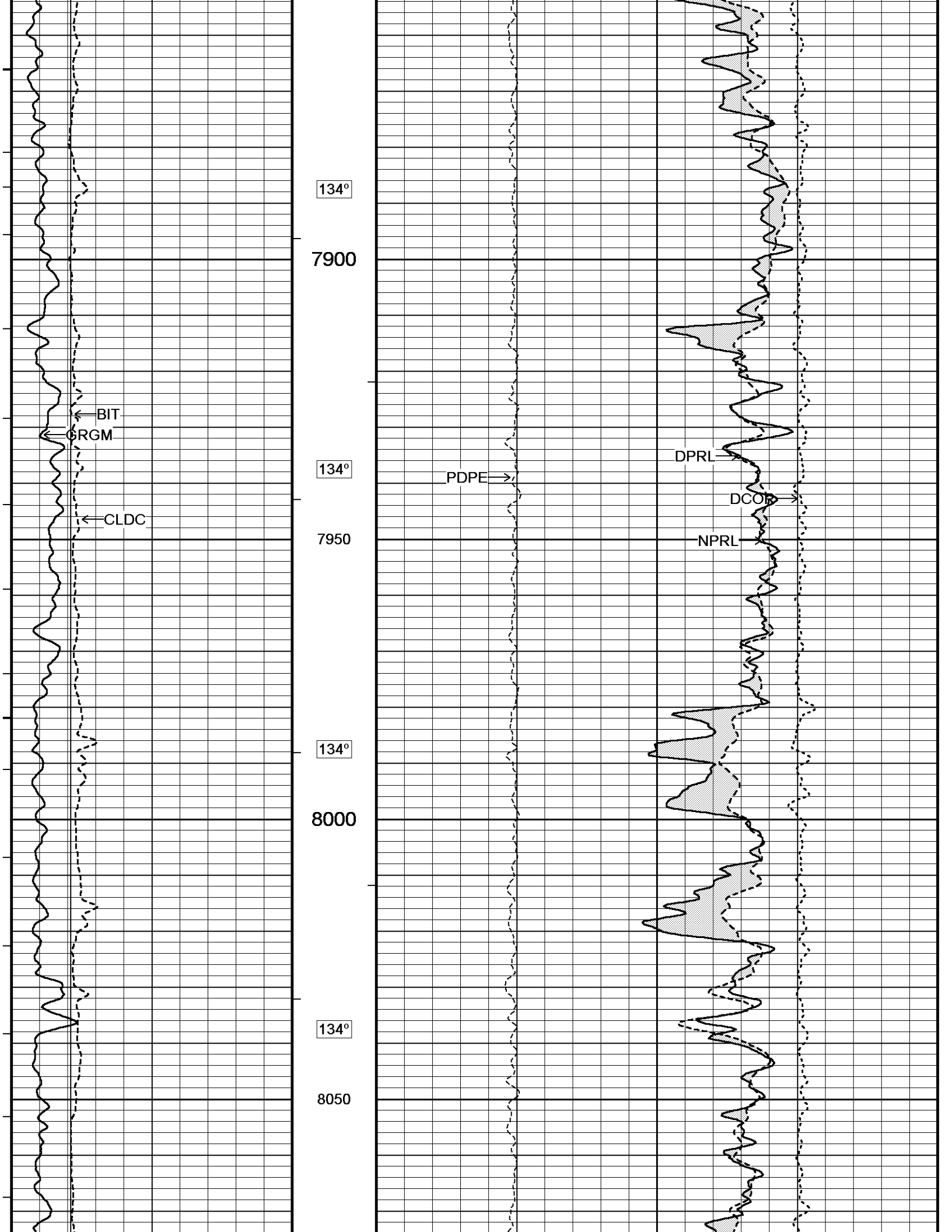
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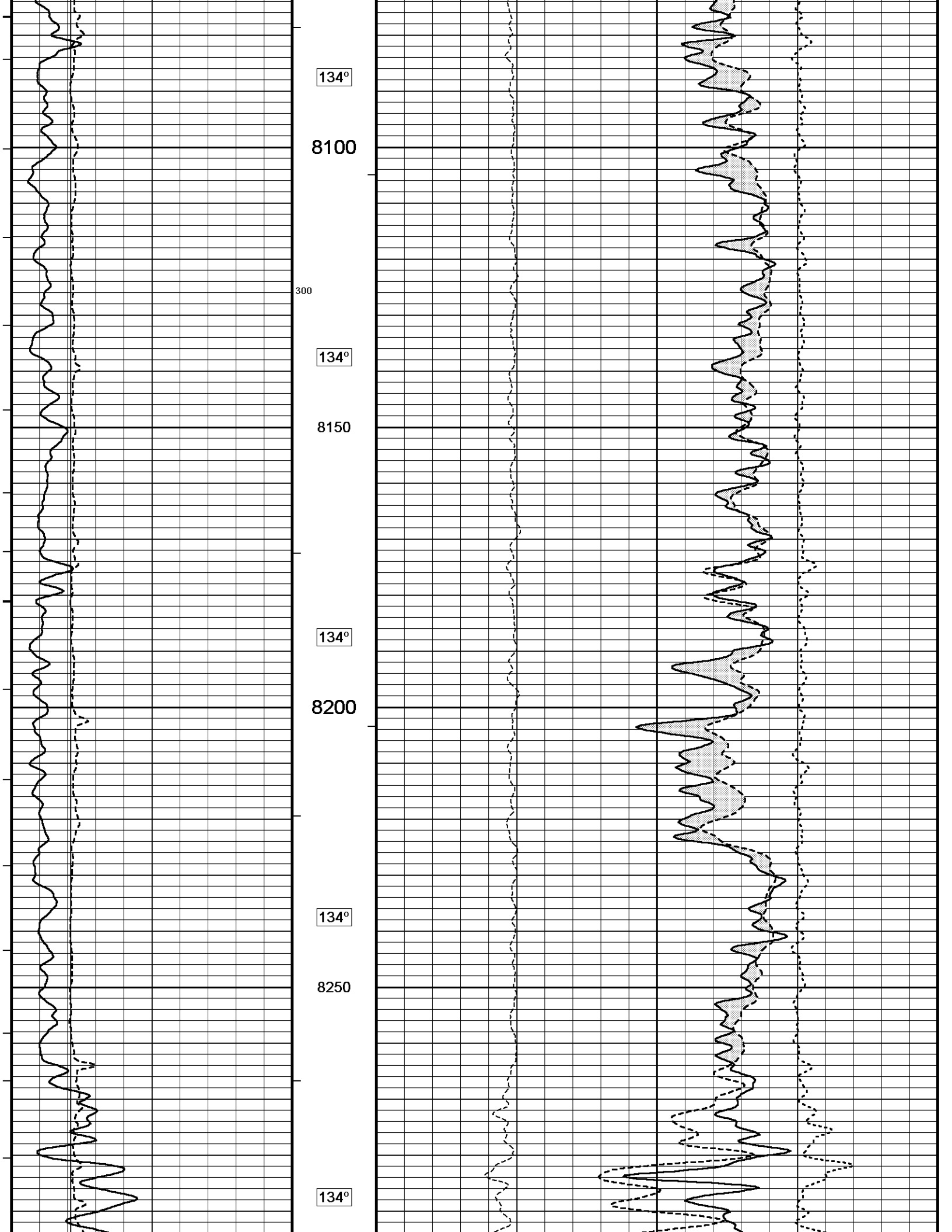
DPRL

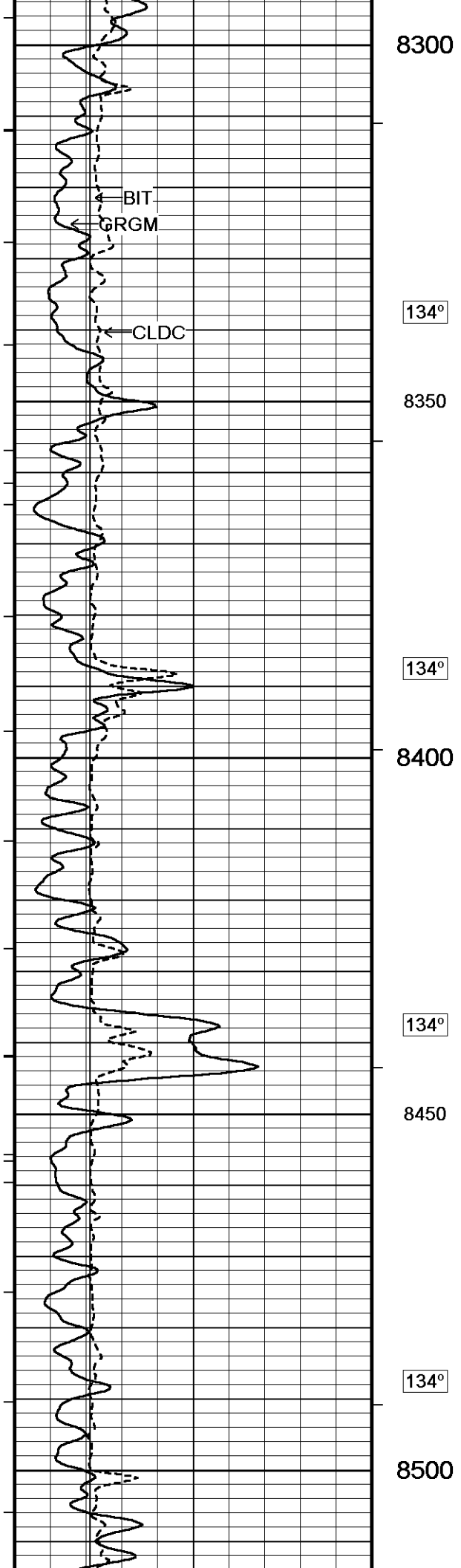
DOOR

NPRI

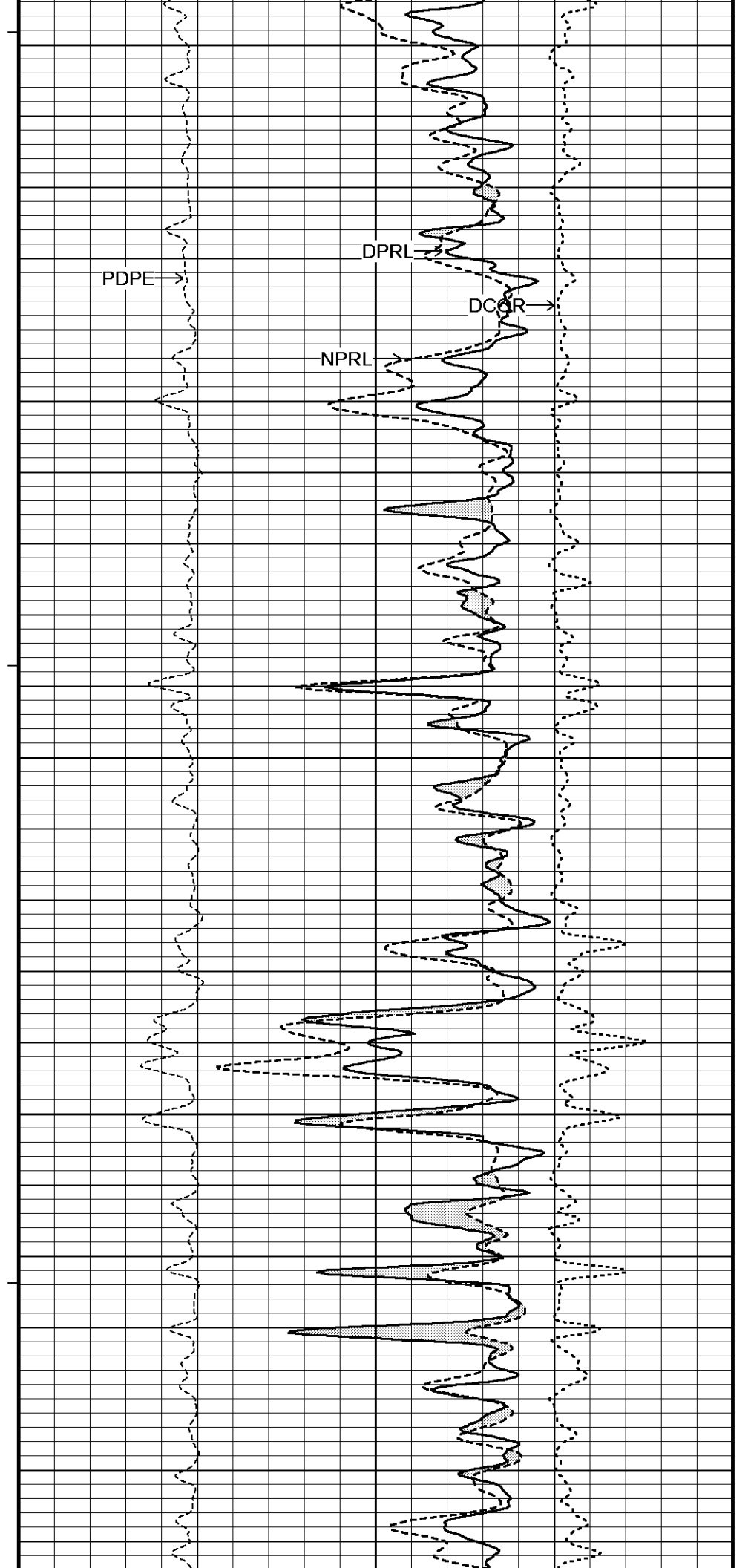




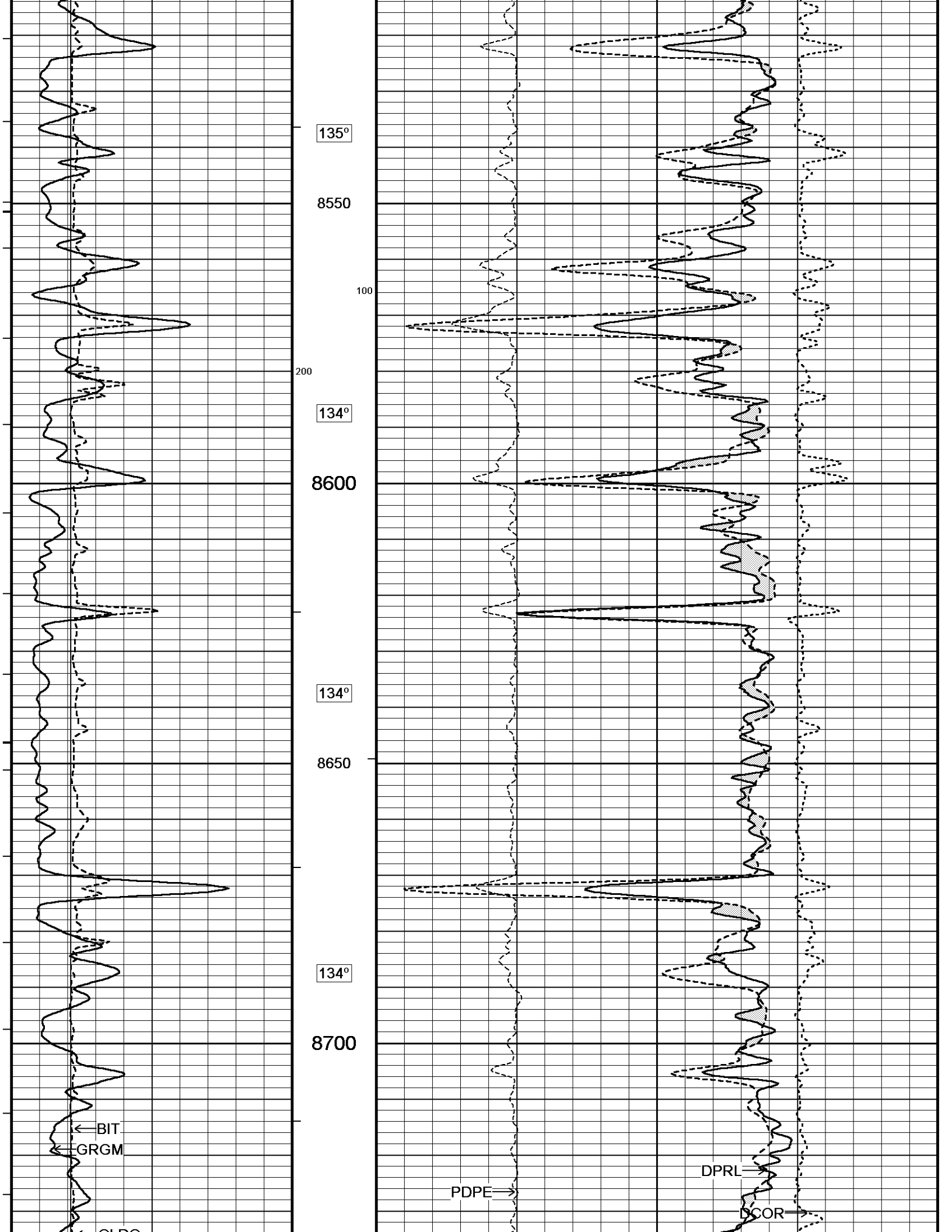


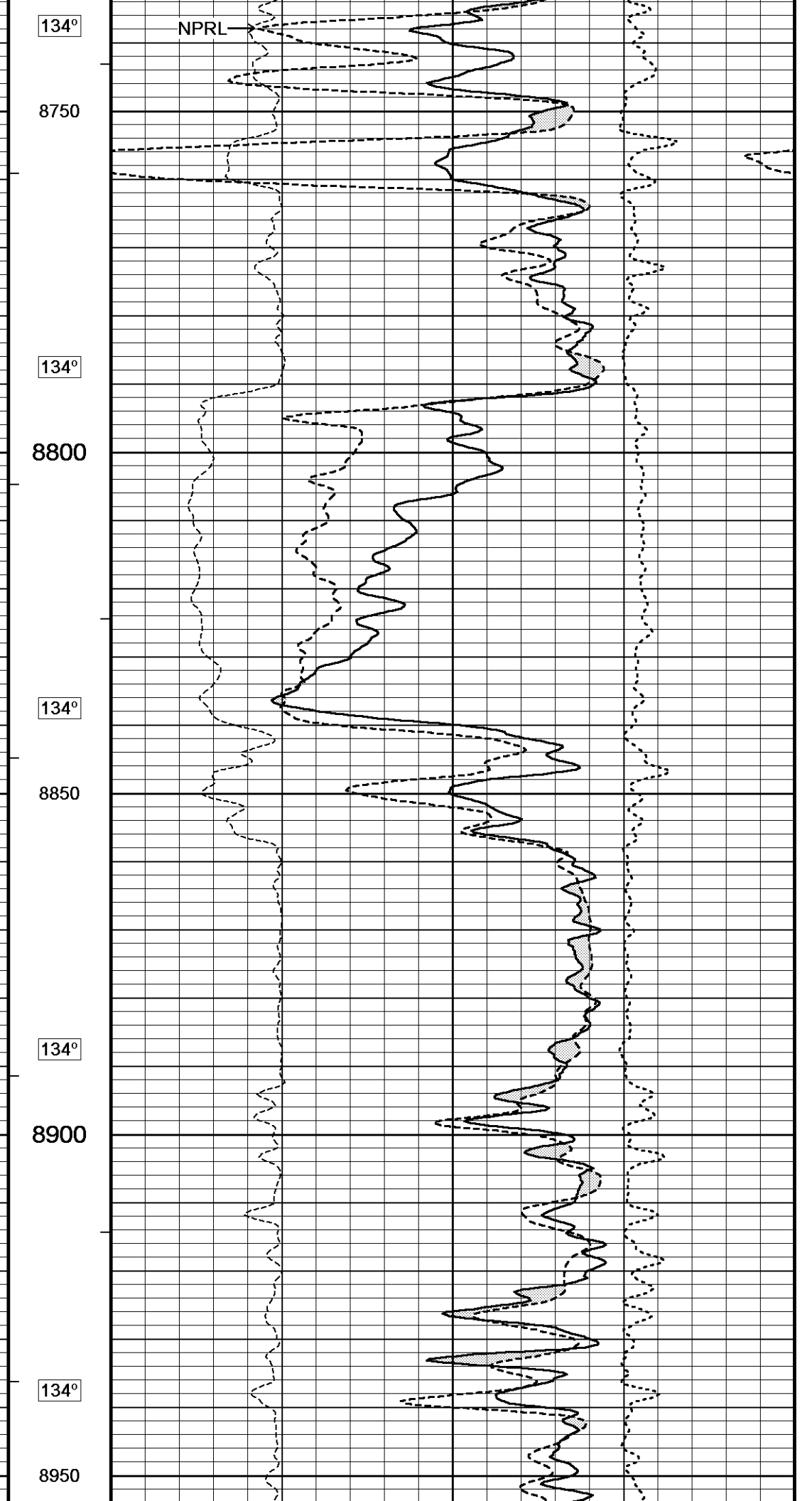


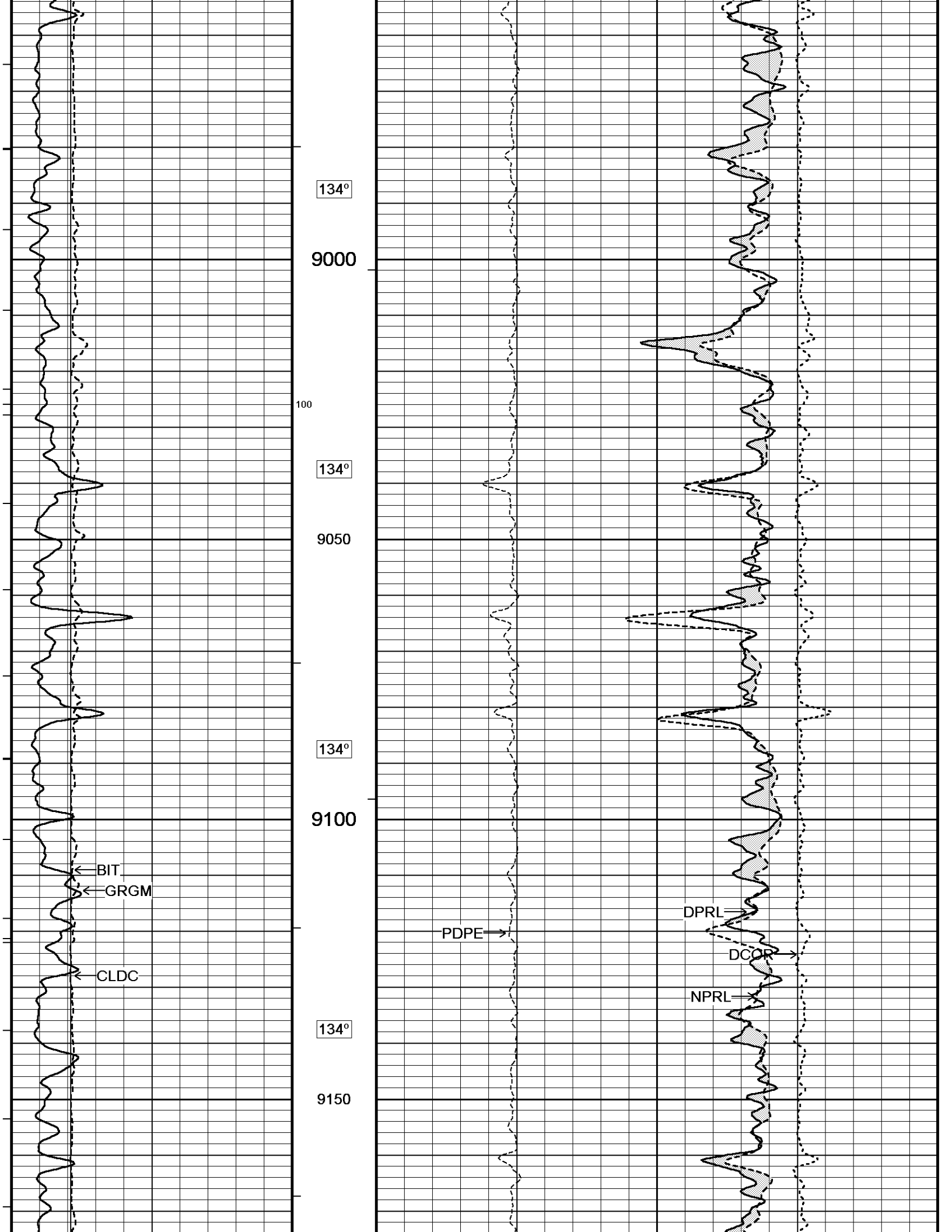
8300
134°
8350
134°
8400
134°
8450
134°
8500

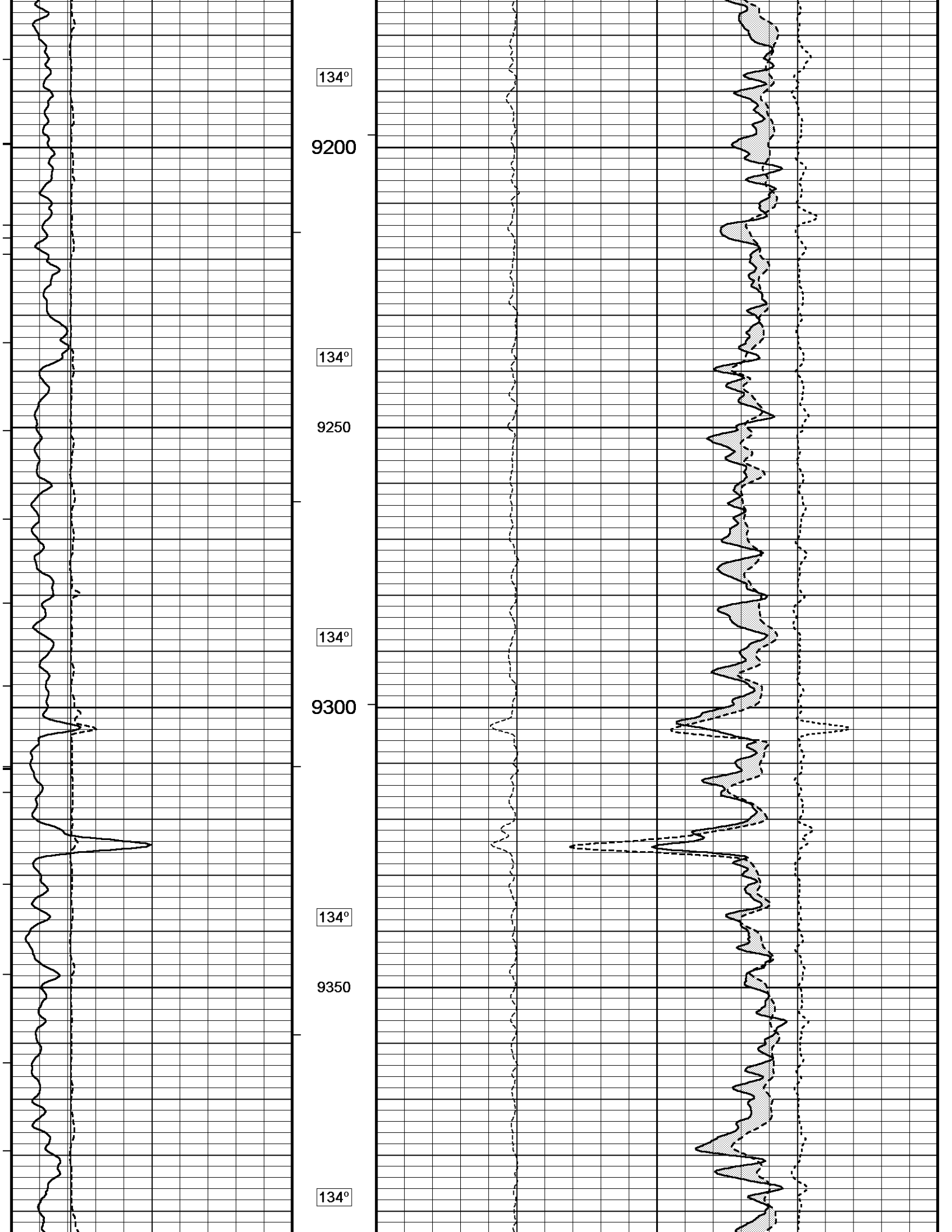


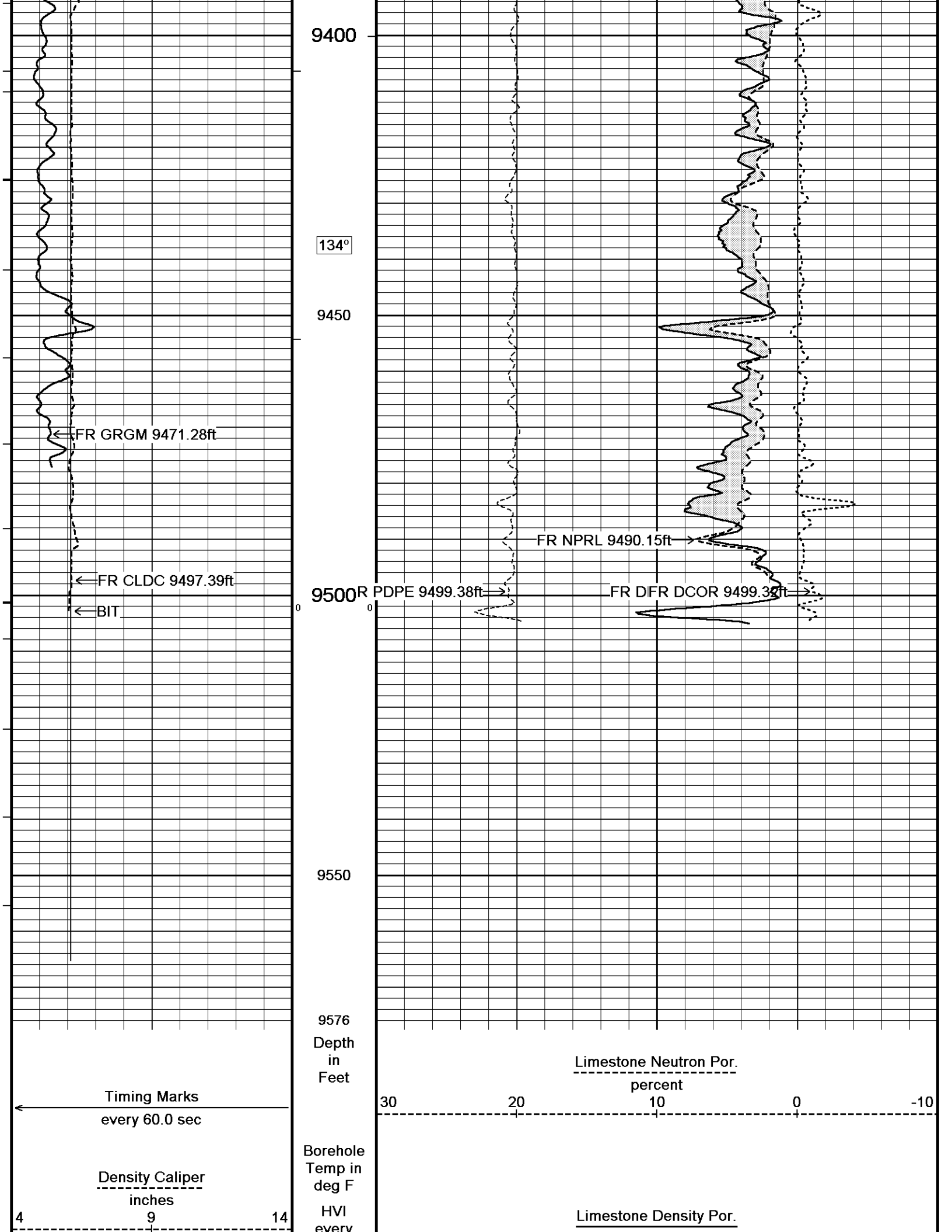
PDPE
DPRL
DCOR
NPRL











9400

134°

9450

← FR GRGM 9471.28ft

← FR CLDC 9497.39ft

← BIT

FR NPRL 9490.15ft →

9500R PDPE 9499.38ft →

FR DIFR DCOR 9499.38ft →

9550

9576
Depth
in
Feet

Timing Marks
every 60.0 sec

Density Caliper
inches

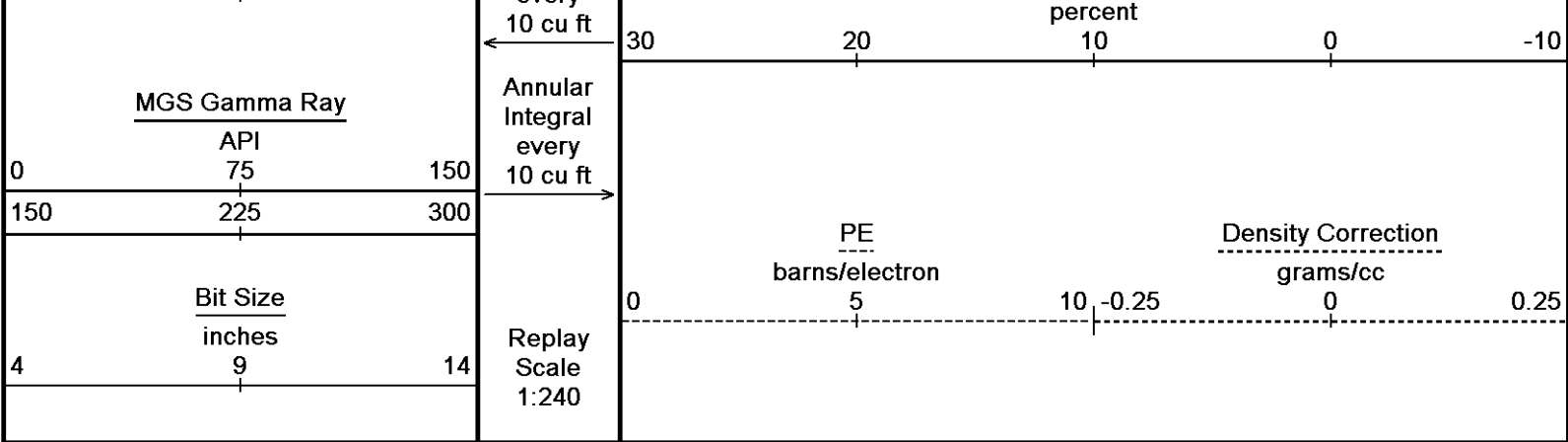
4 9 14

Borehole
Temp in
deg F
HVI
every

Limestone Neutron Por.
percent

30 20 10 0 -10

Limestone Density Por.

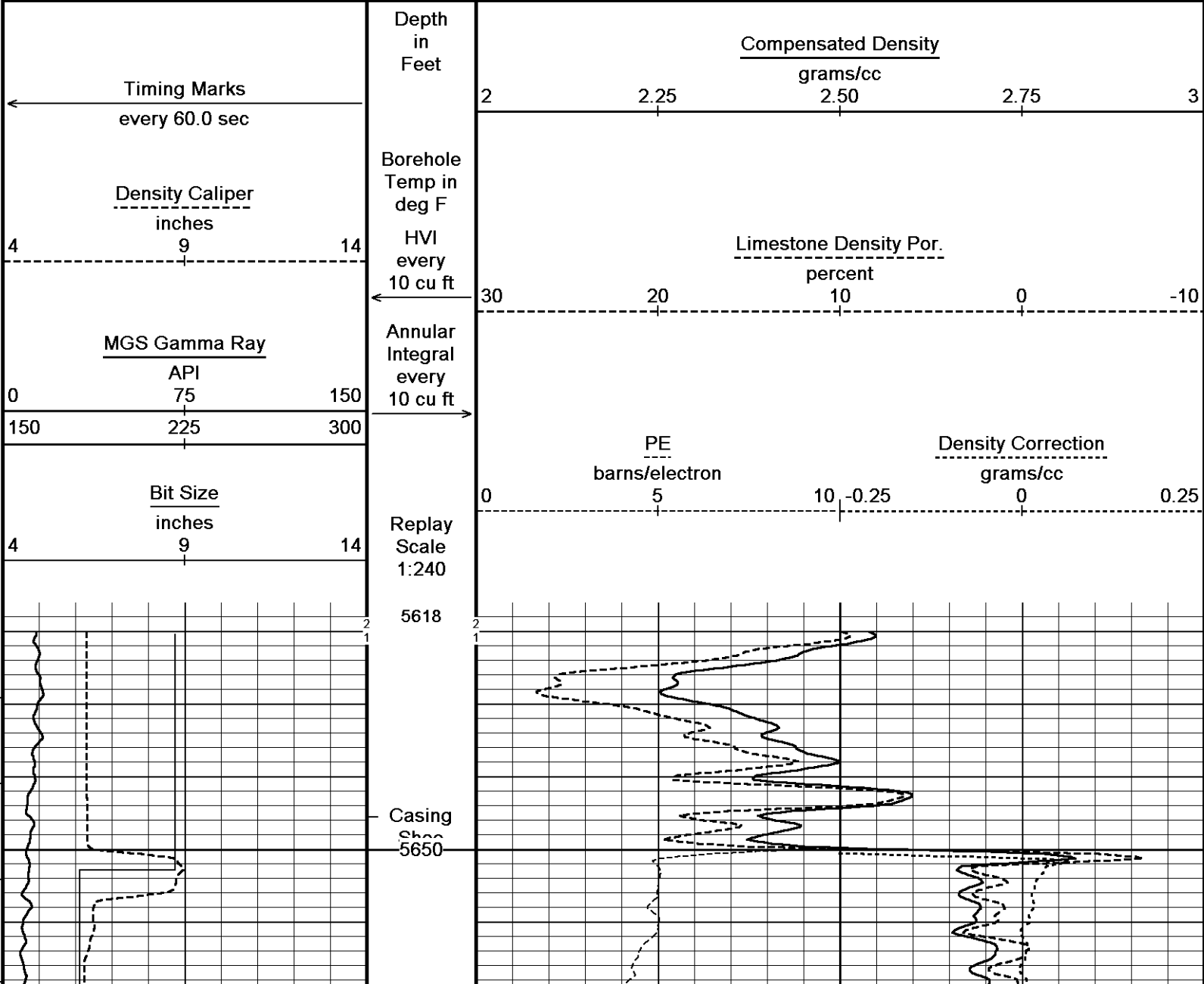


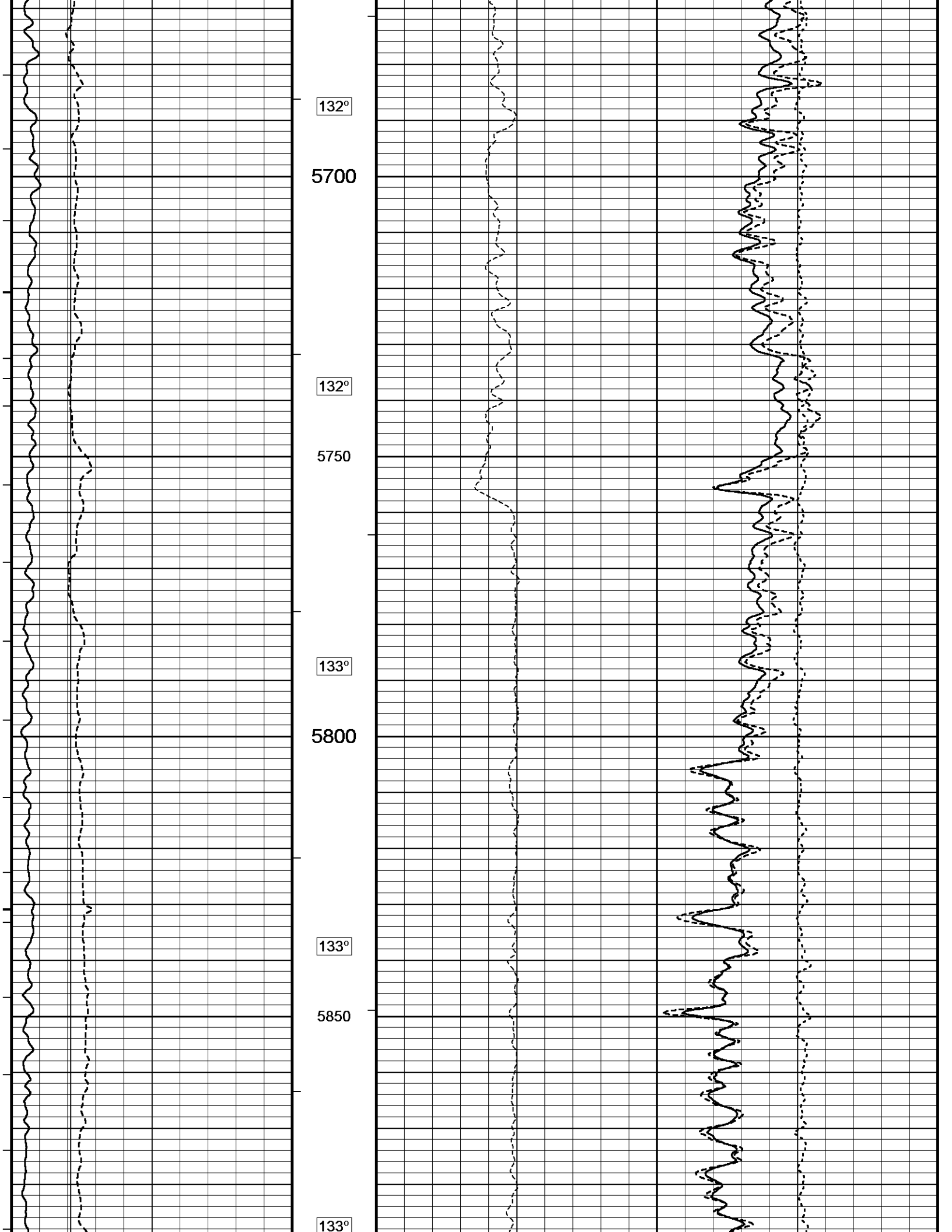
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 07-JUL-2012 02:05
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 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

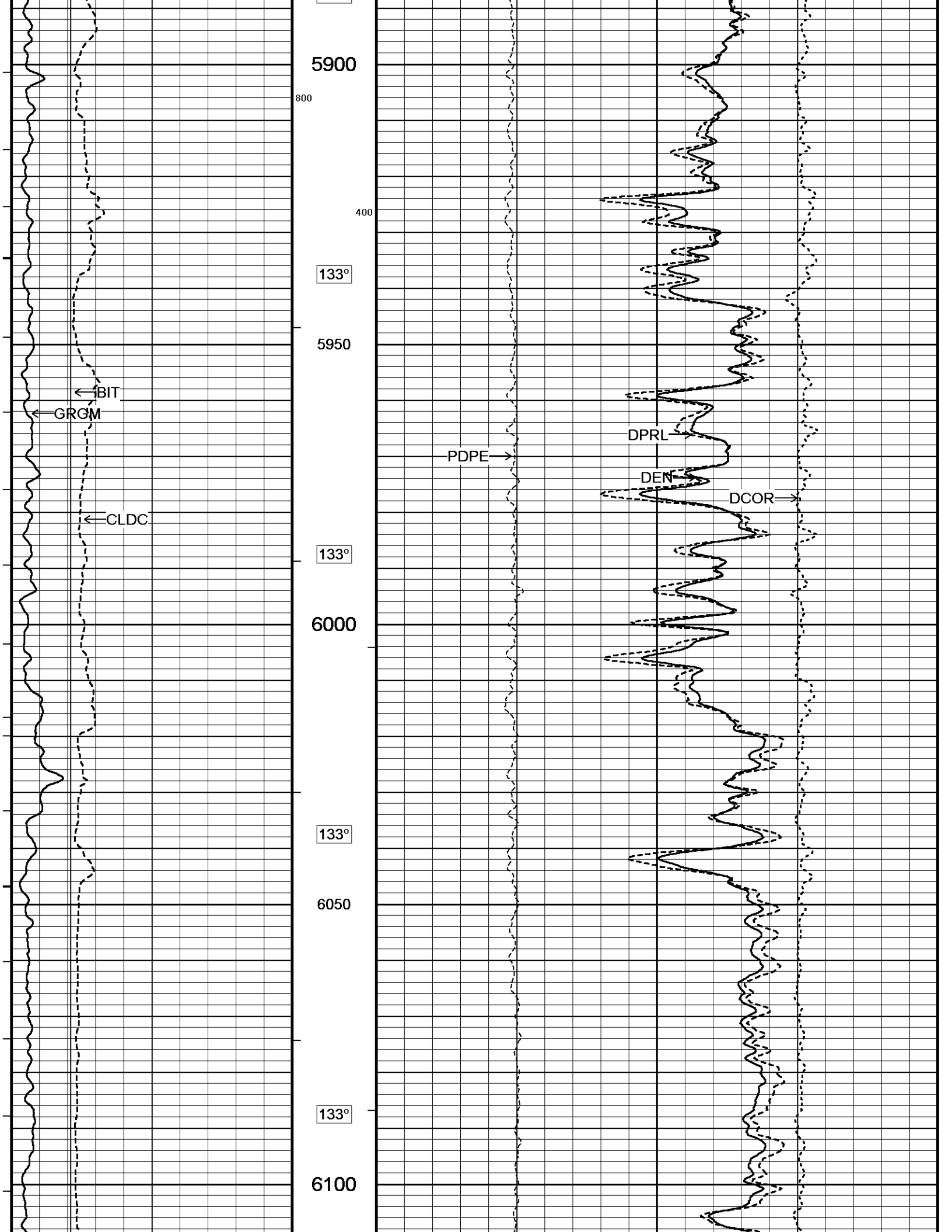
↑ **5 INCH MAIN LOG** ↑

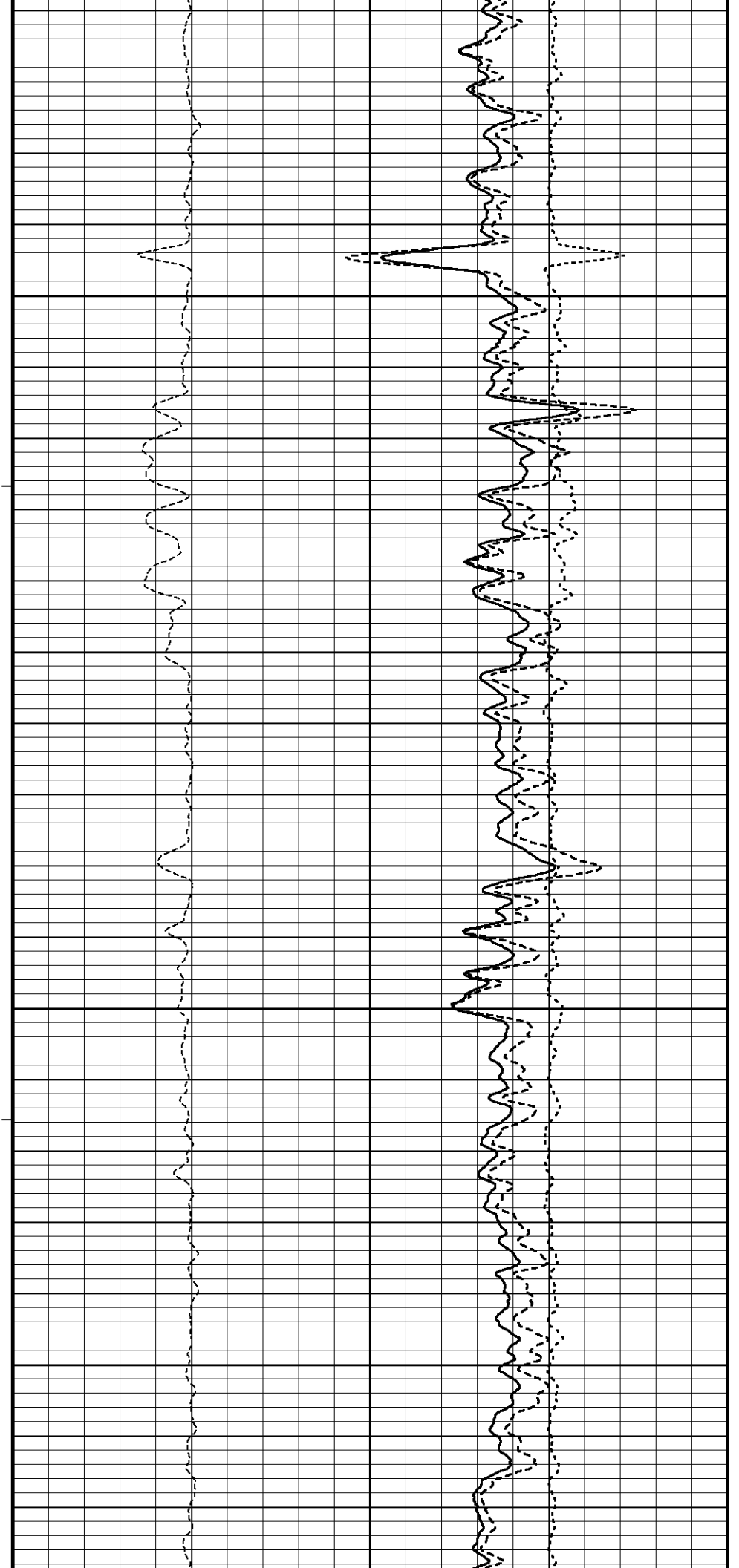
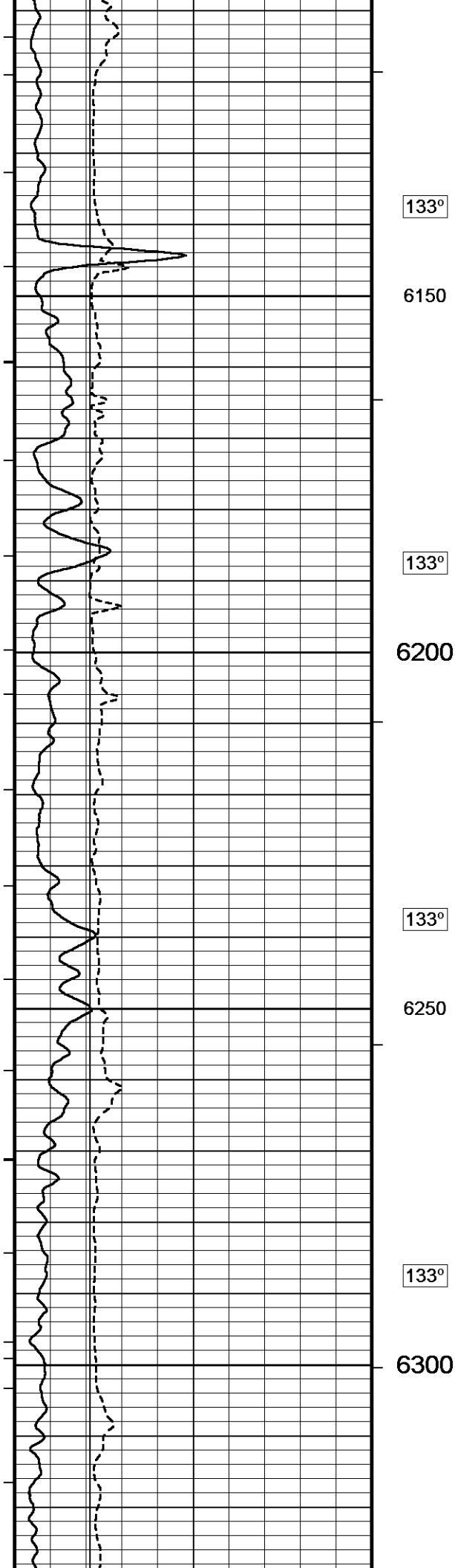
↓ **5 INCH MAIN LOG** ↓

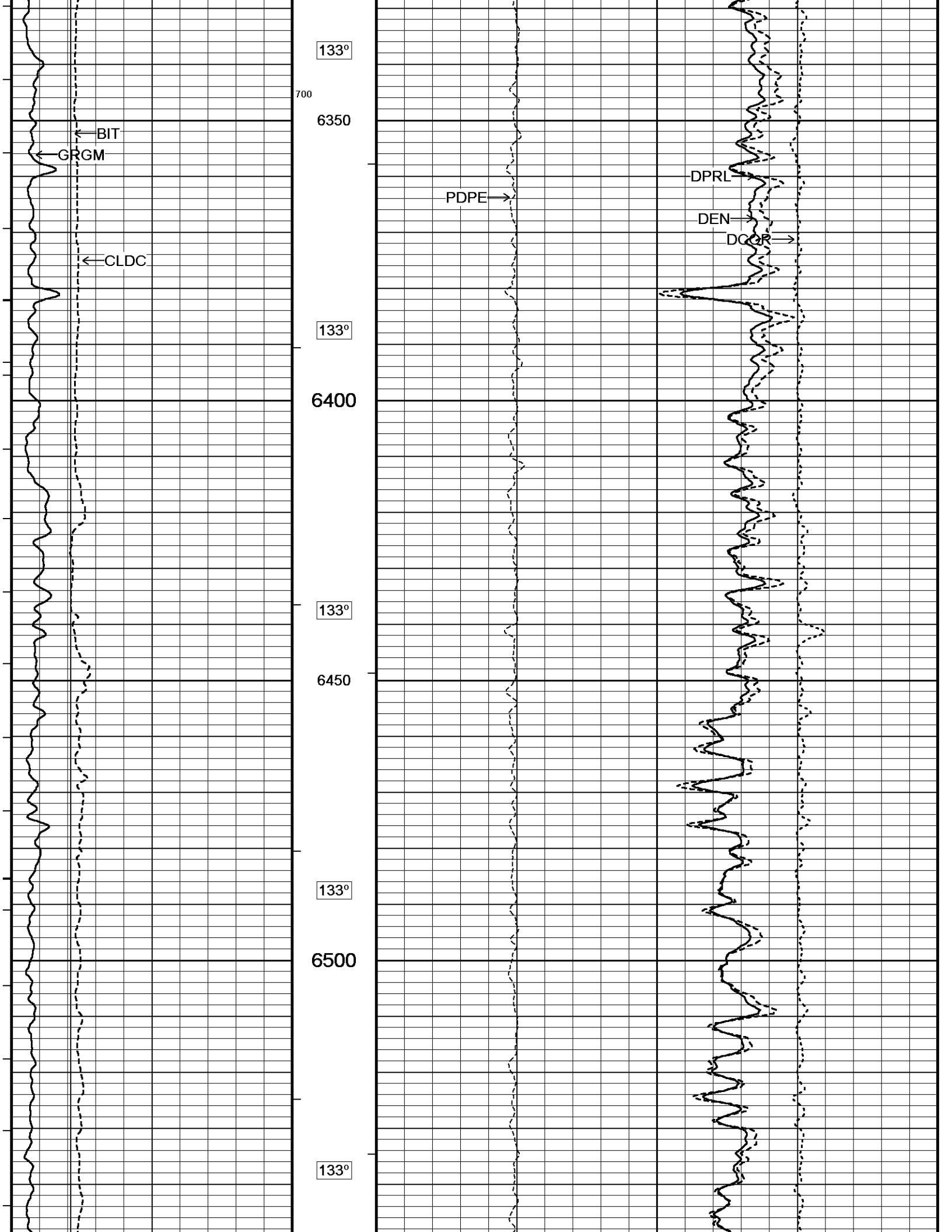
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 07-JUL-2012 02:05
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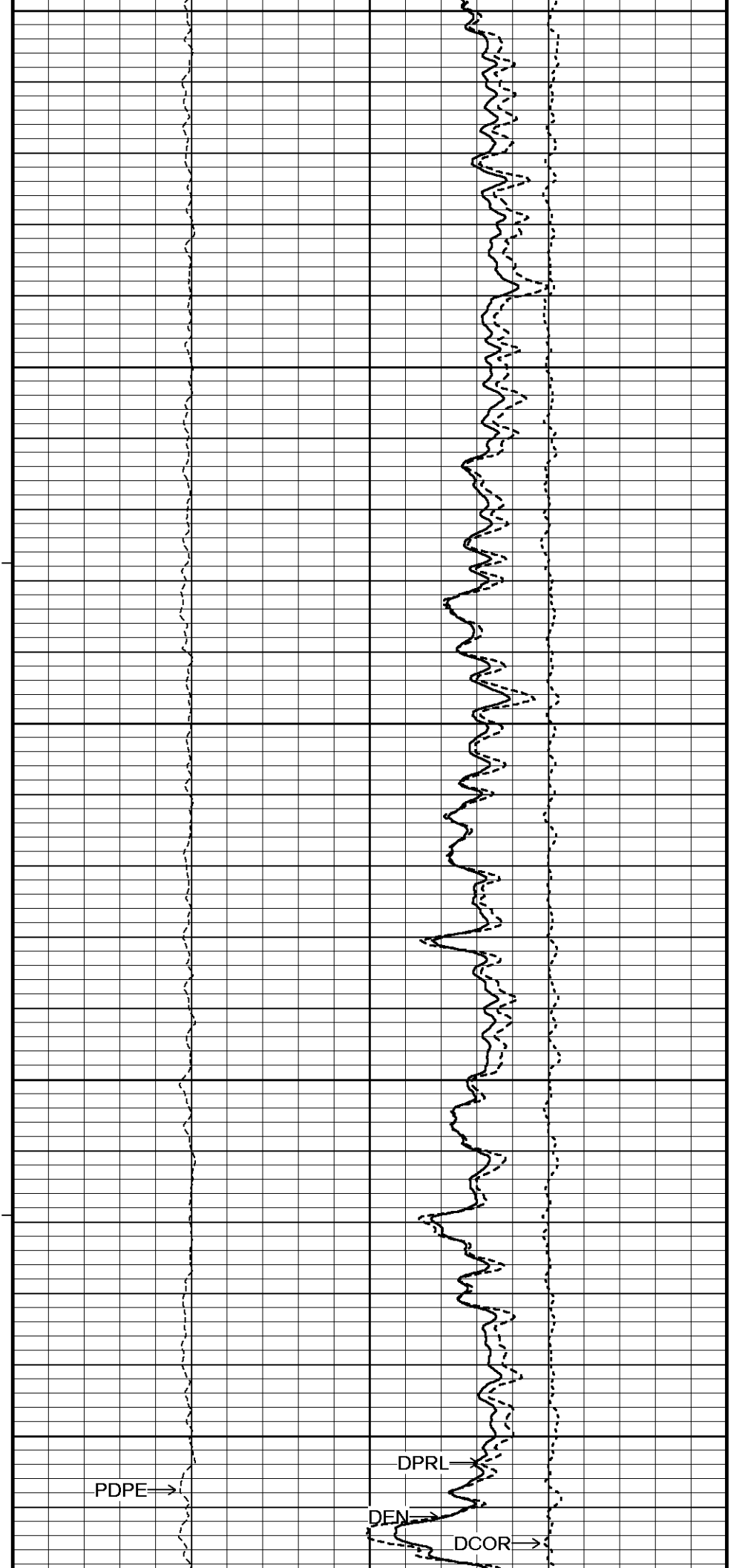
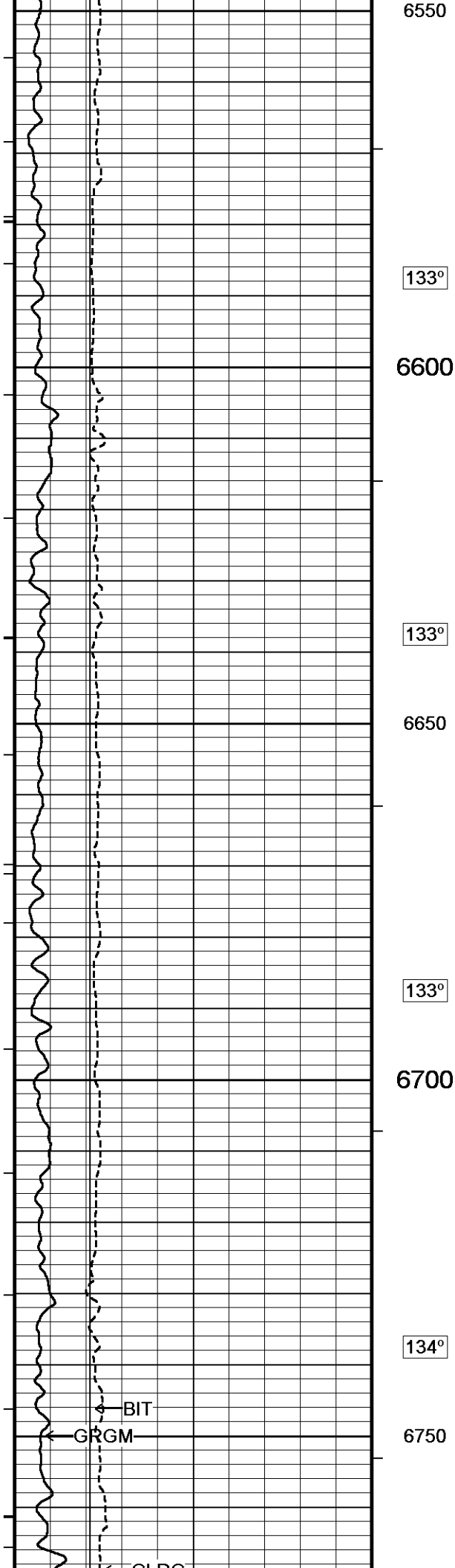


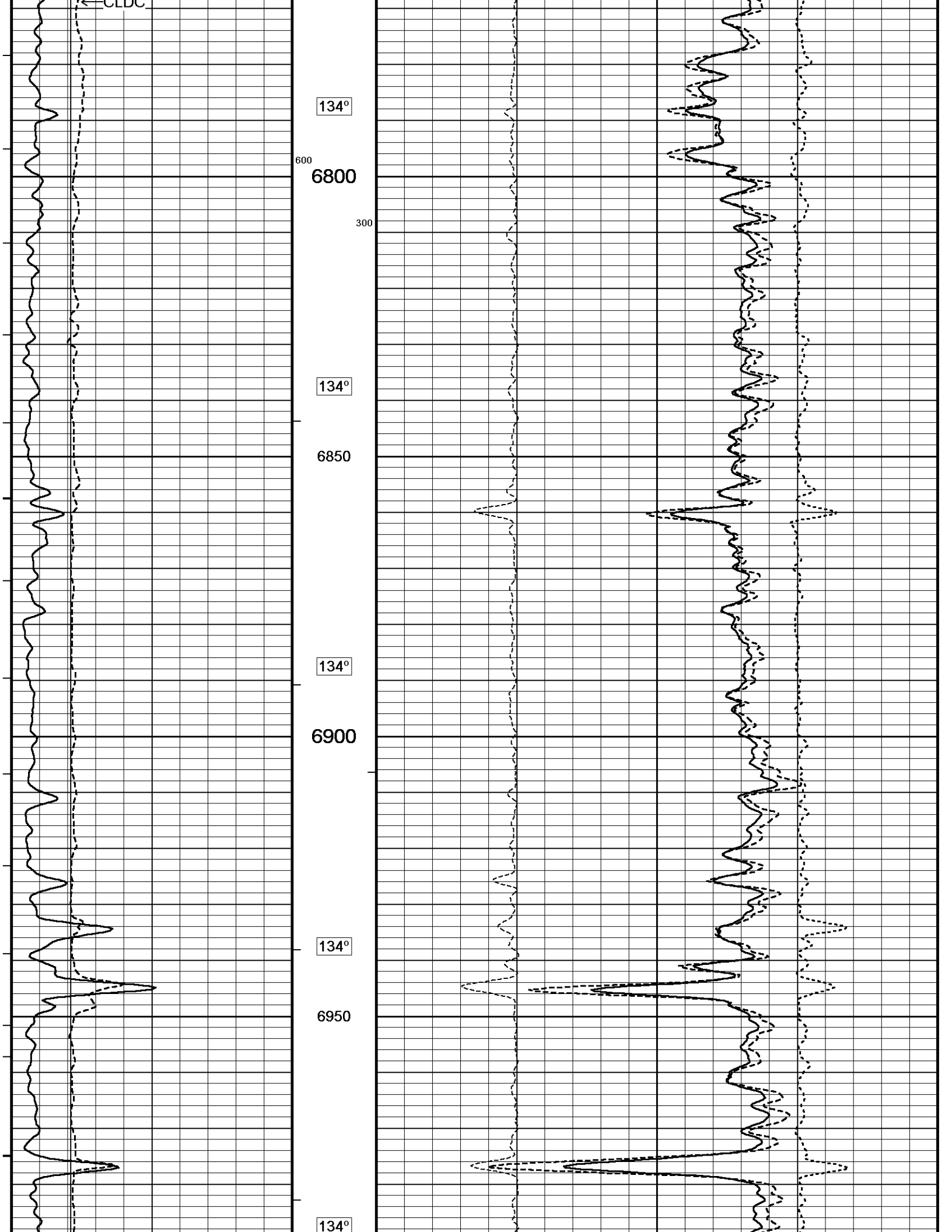


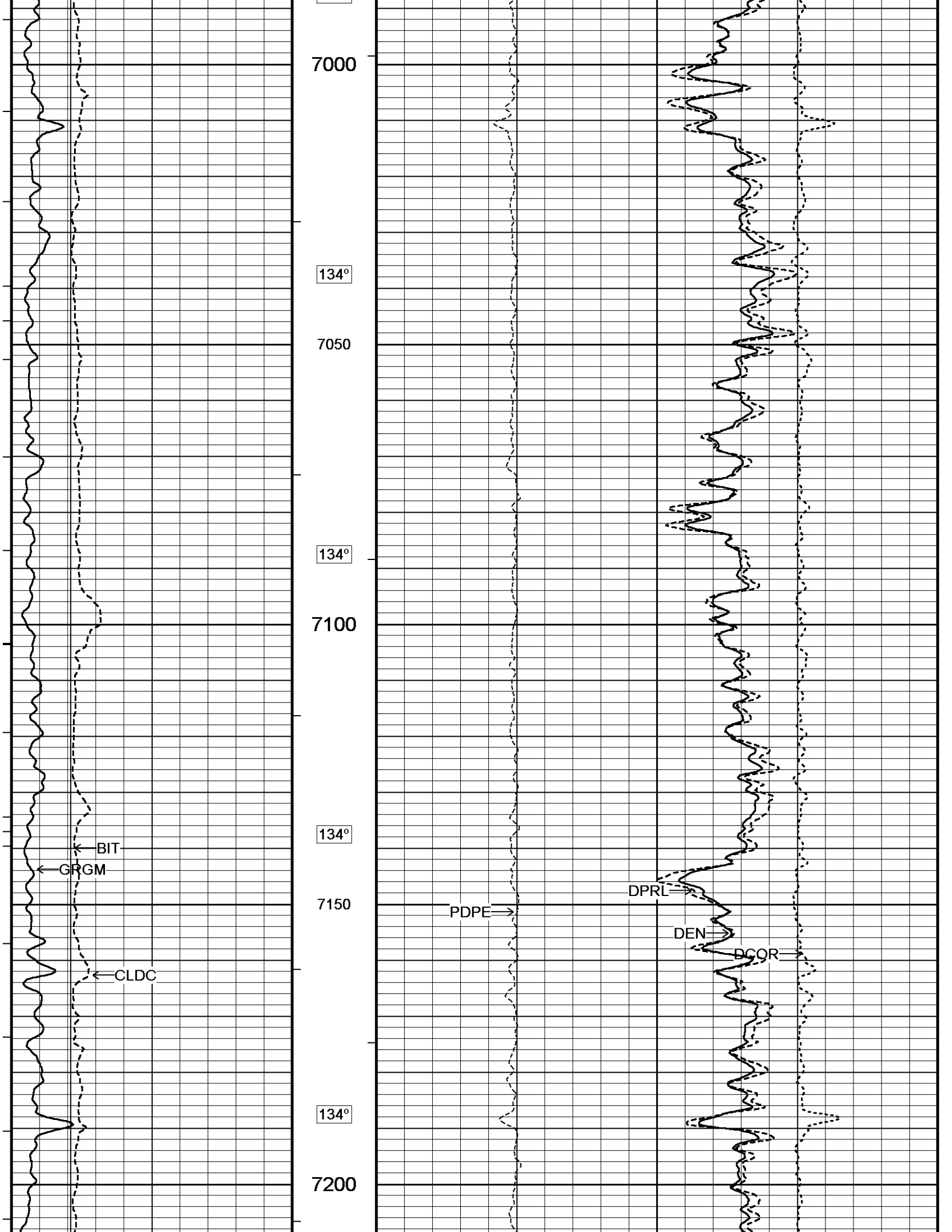


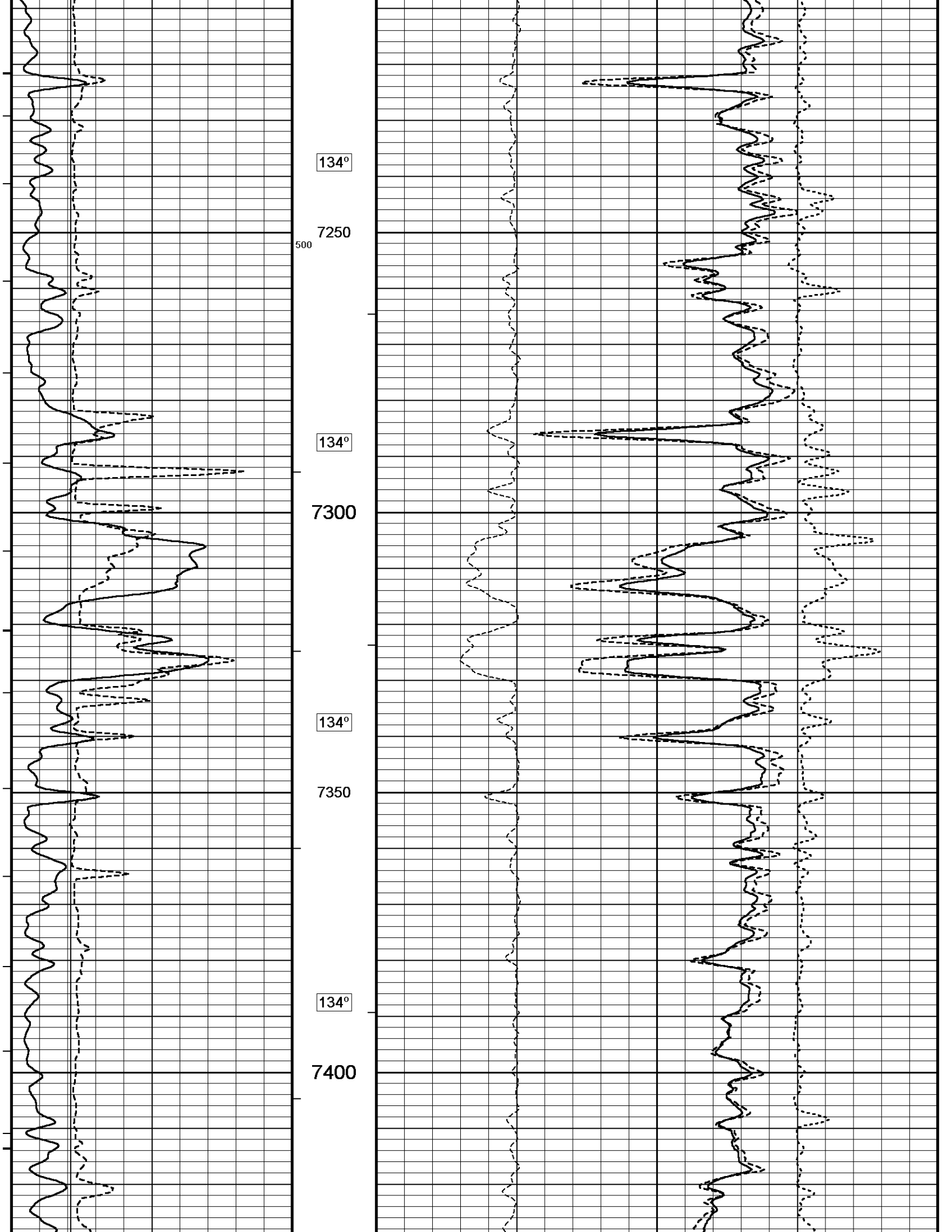


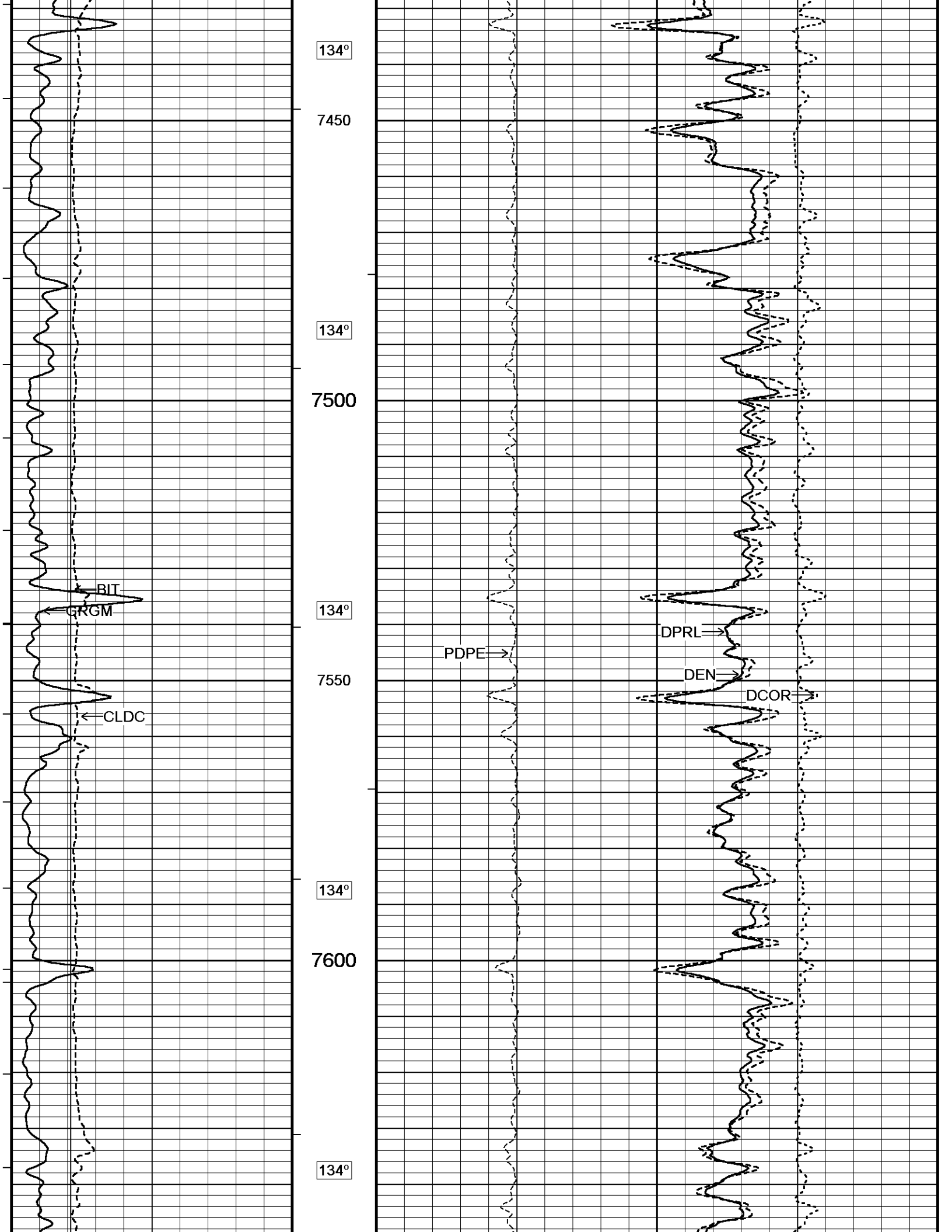


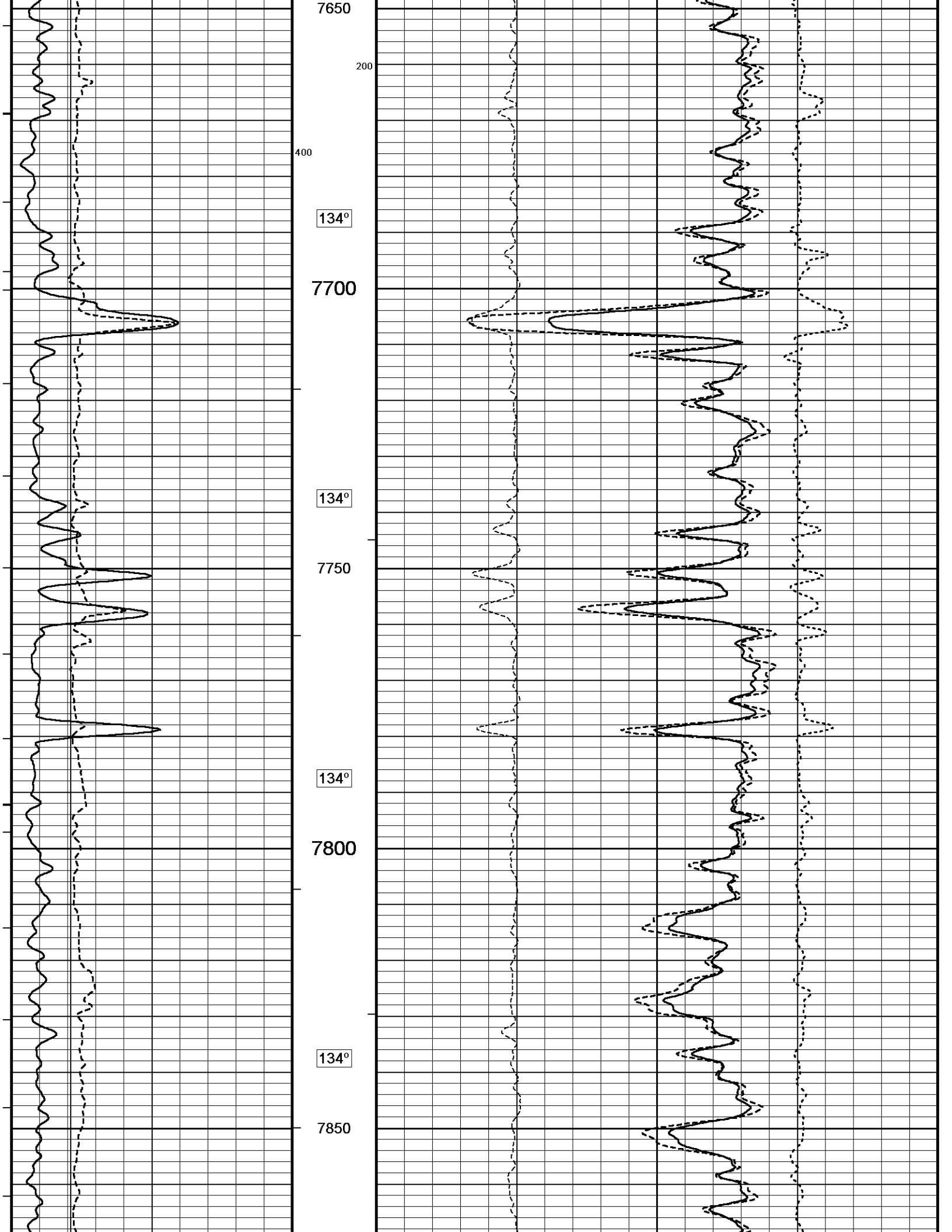


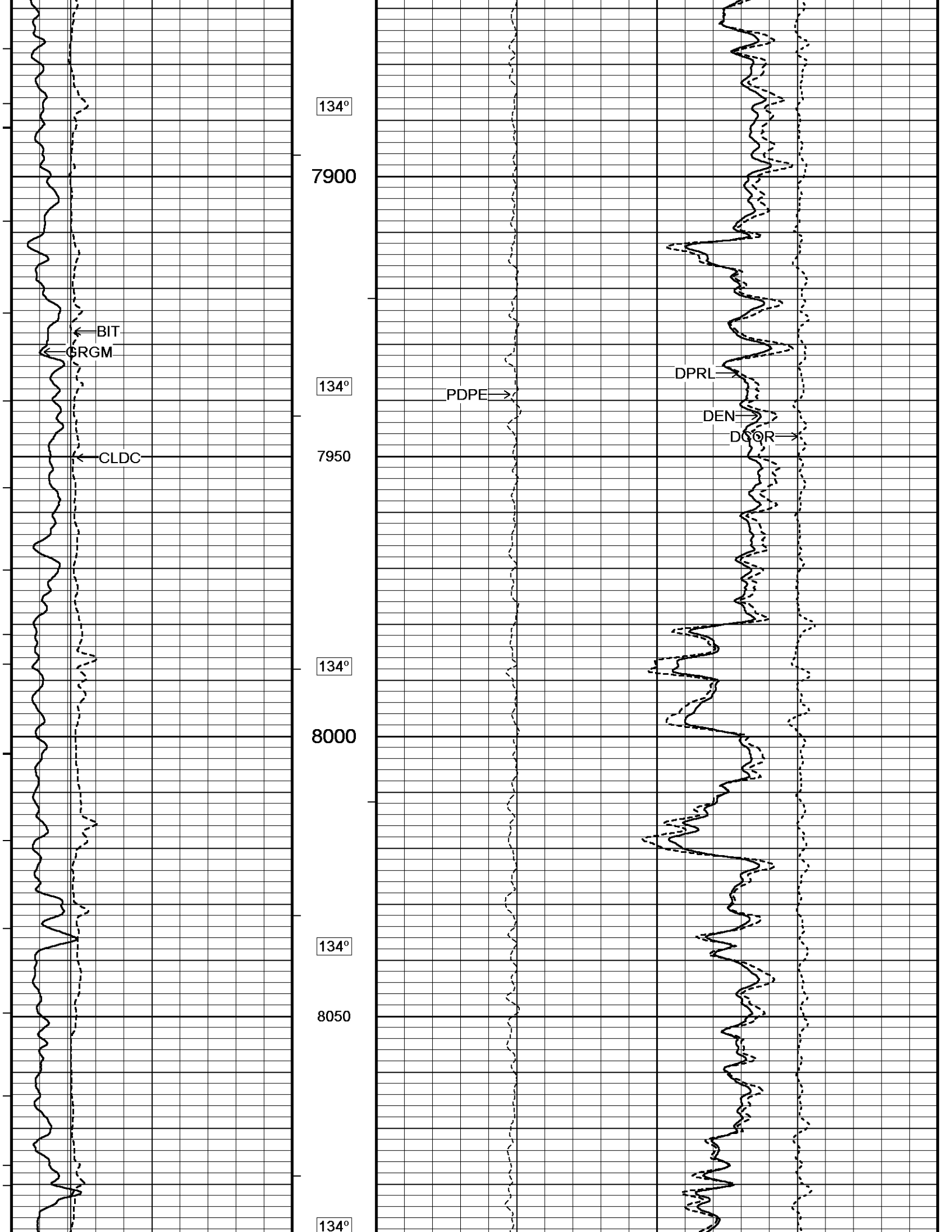


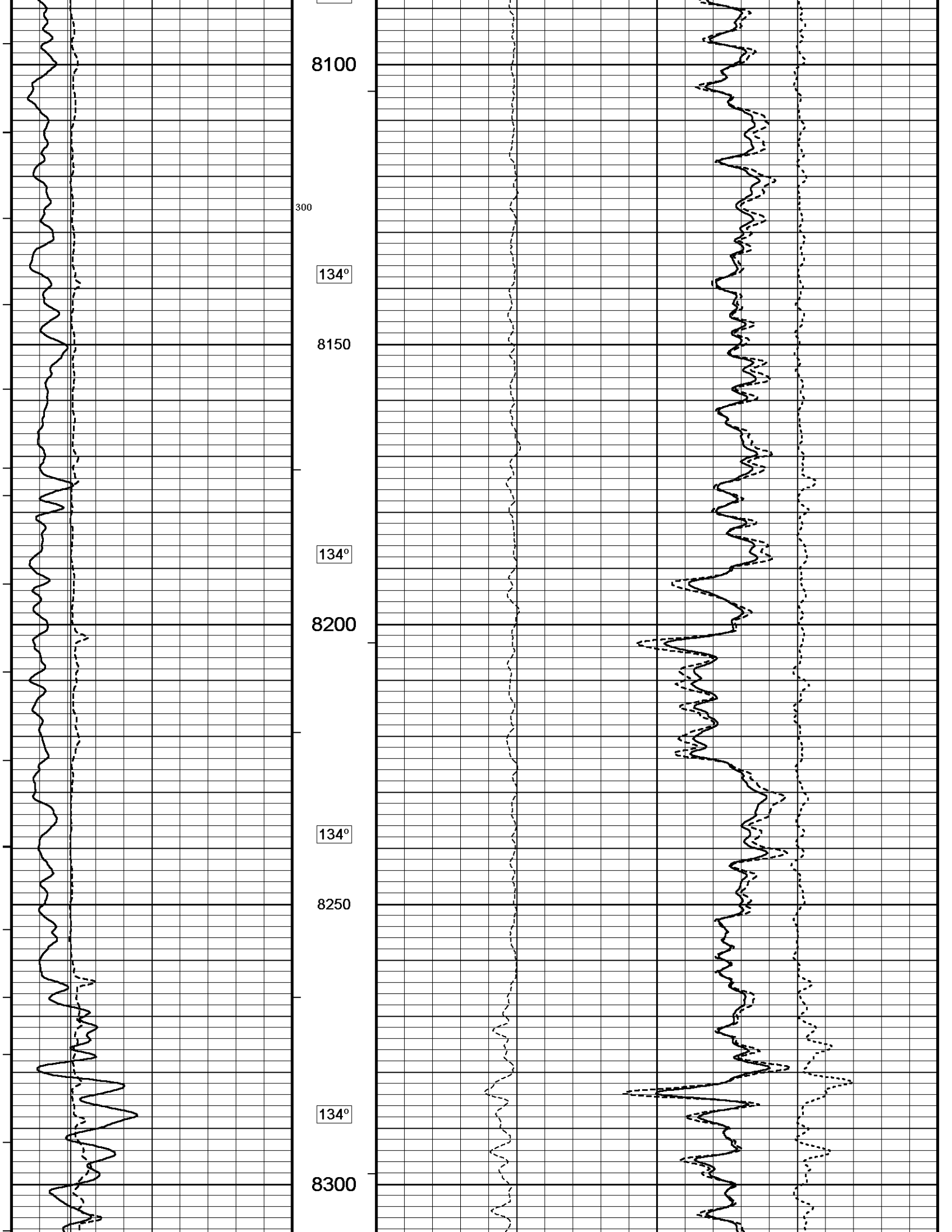


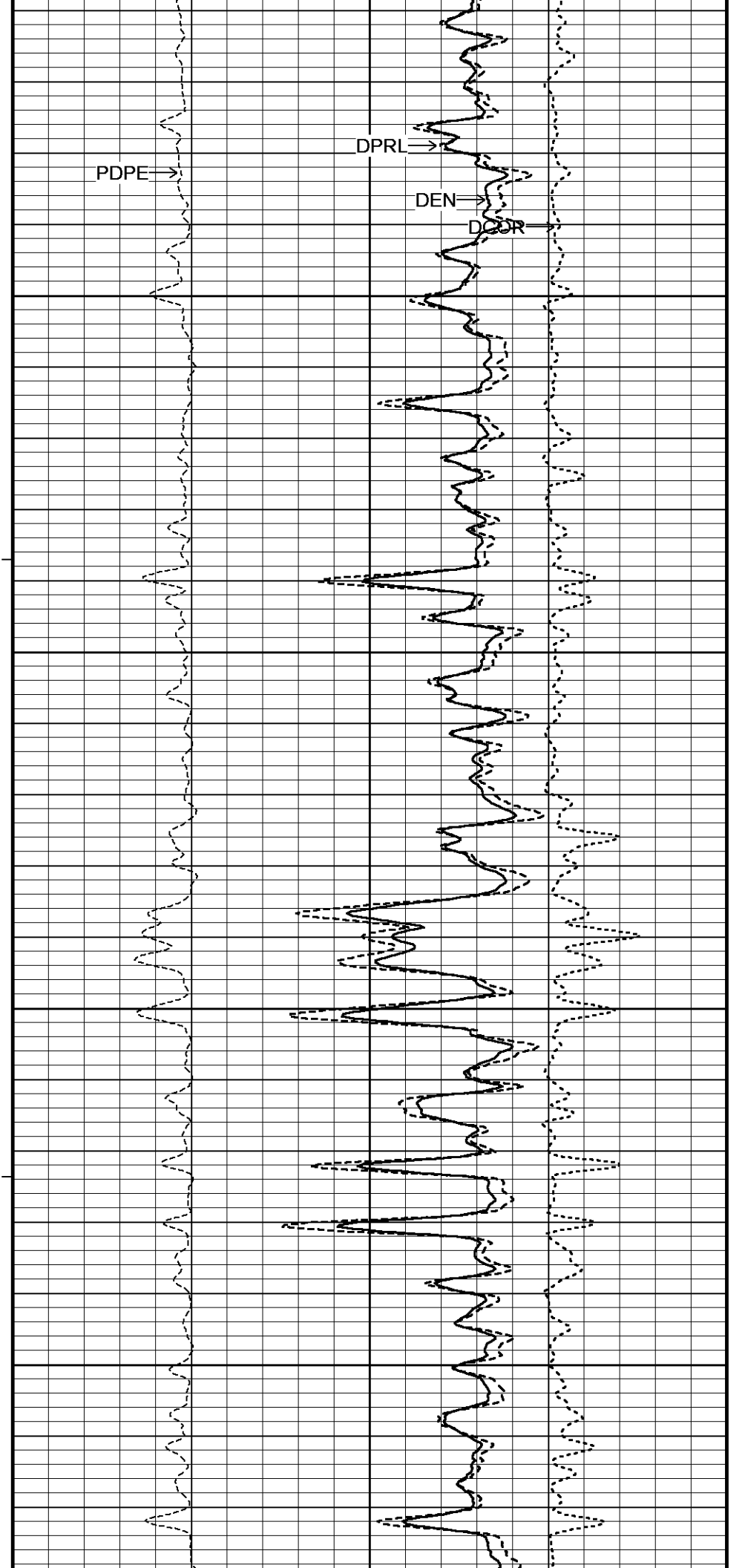
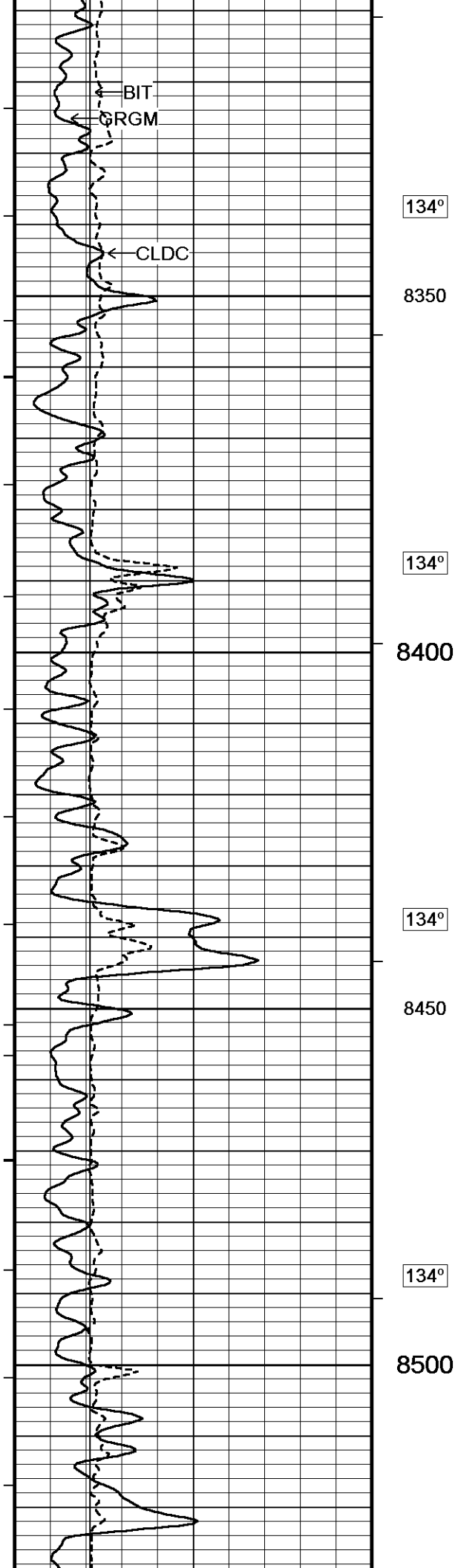


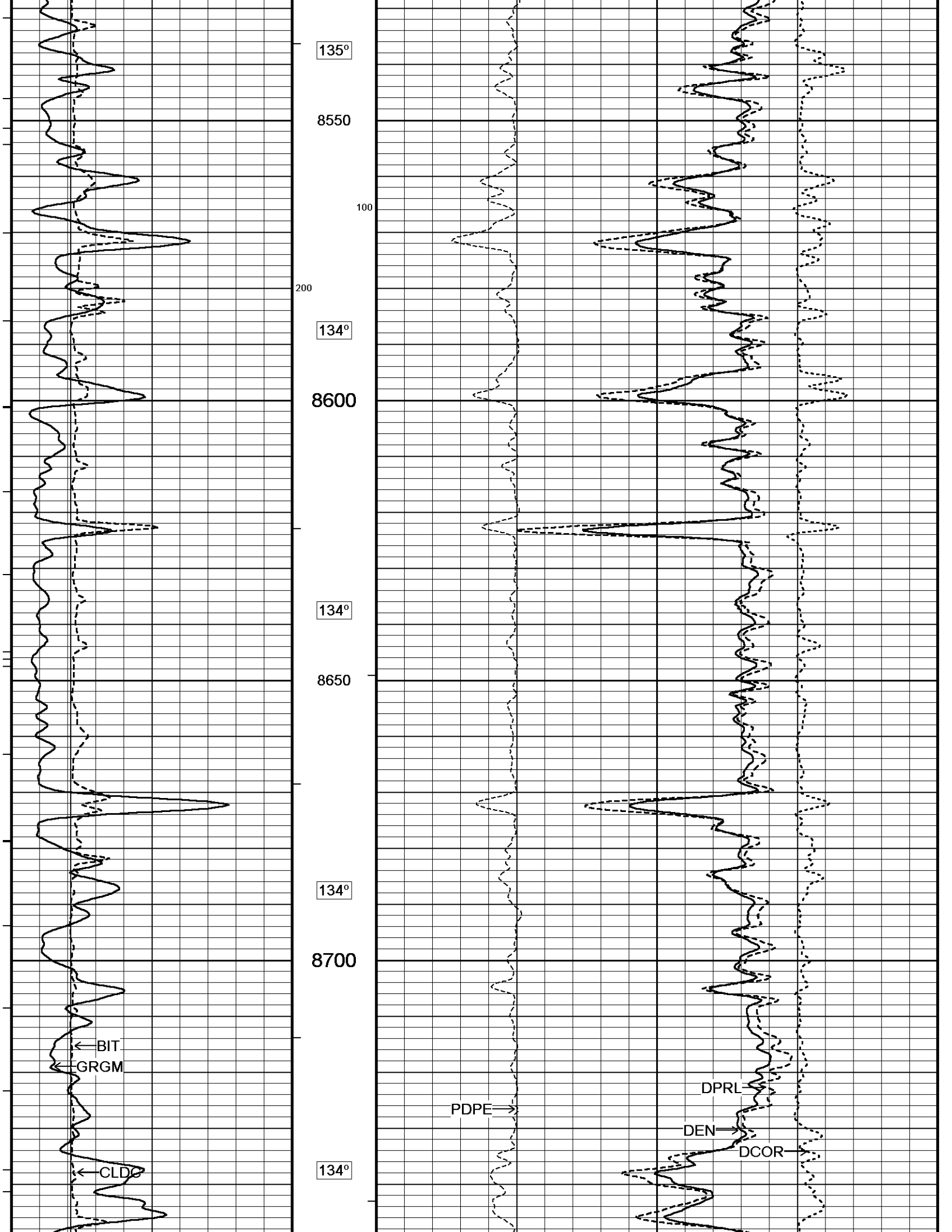












135°

8550

100

200

134°

8600

134°

8650

134°

8700

134°

← BIT

← GRGM

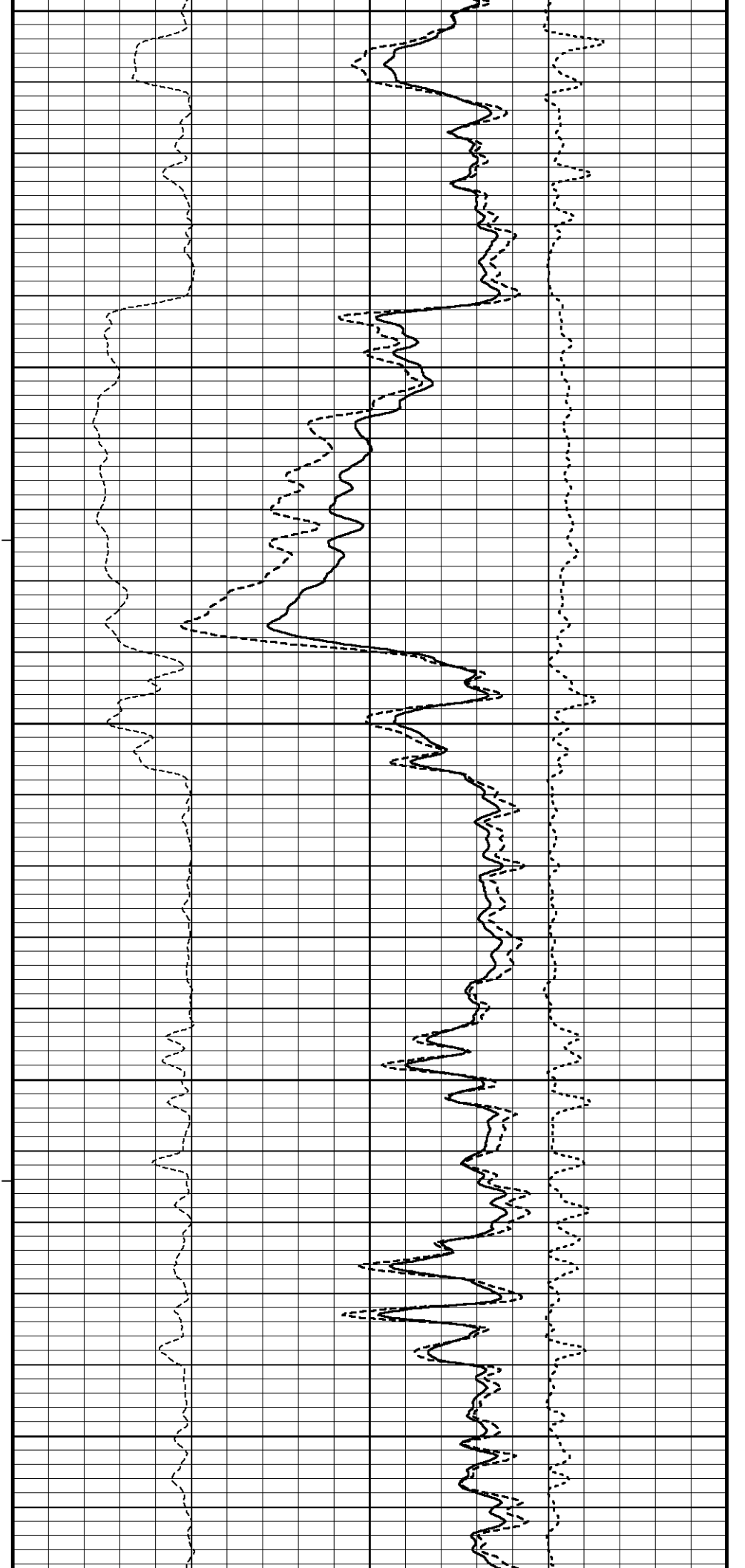
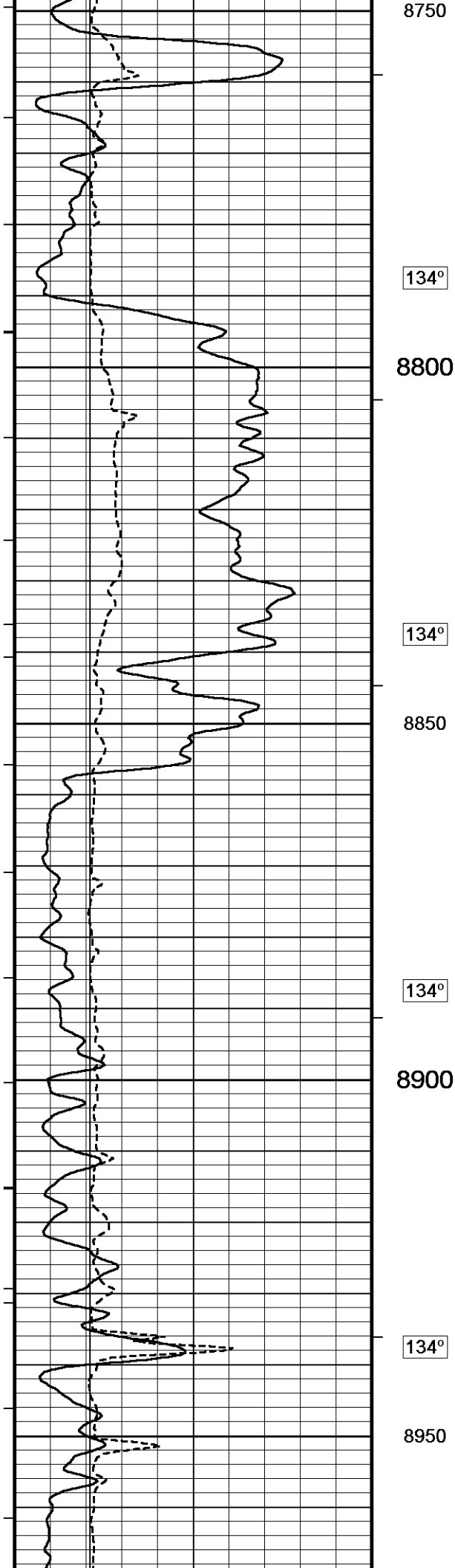
← CLDG

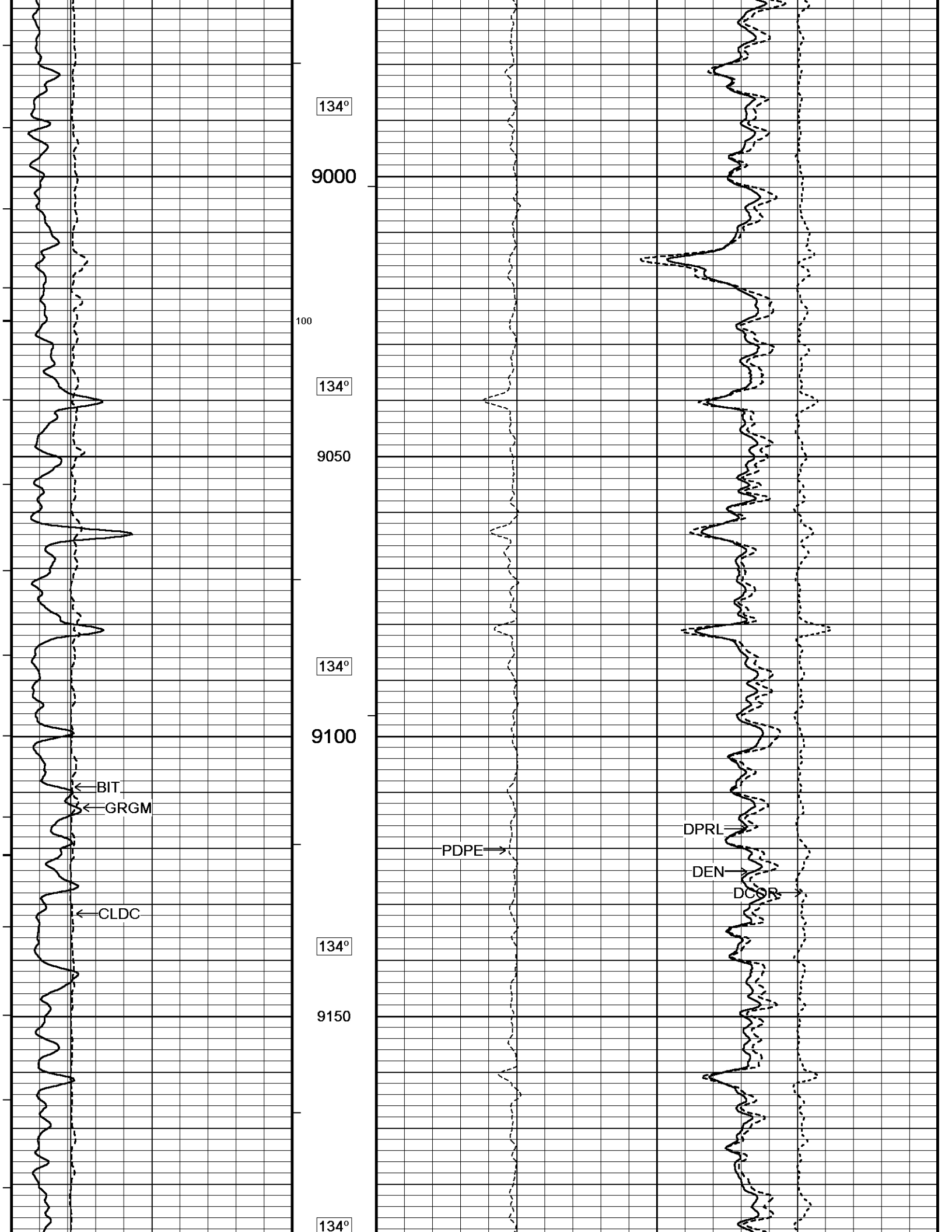
PDPE →

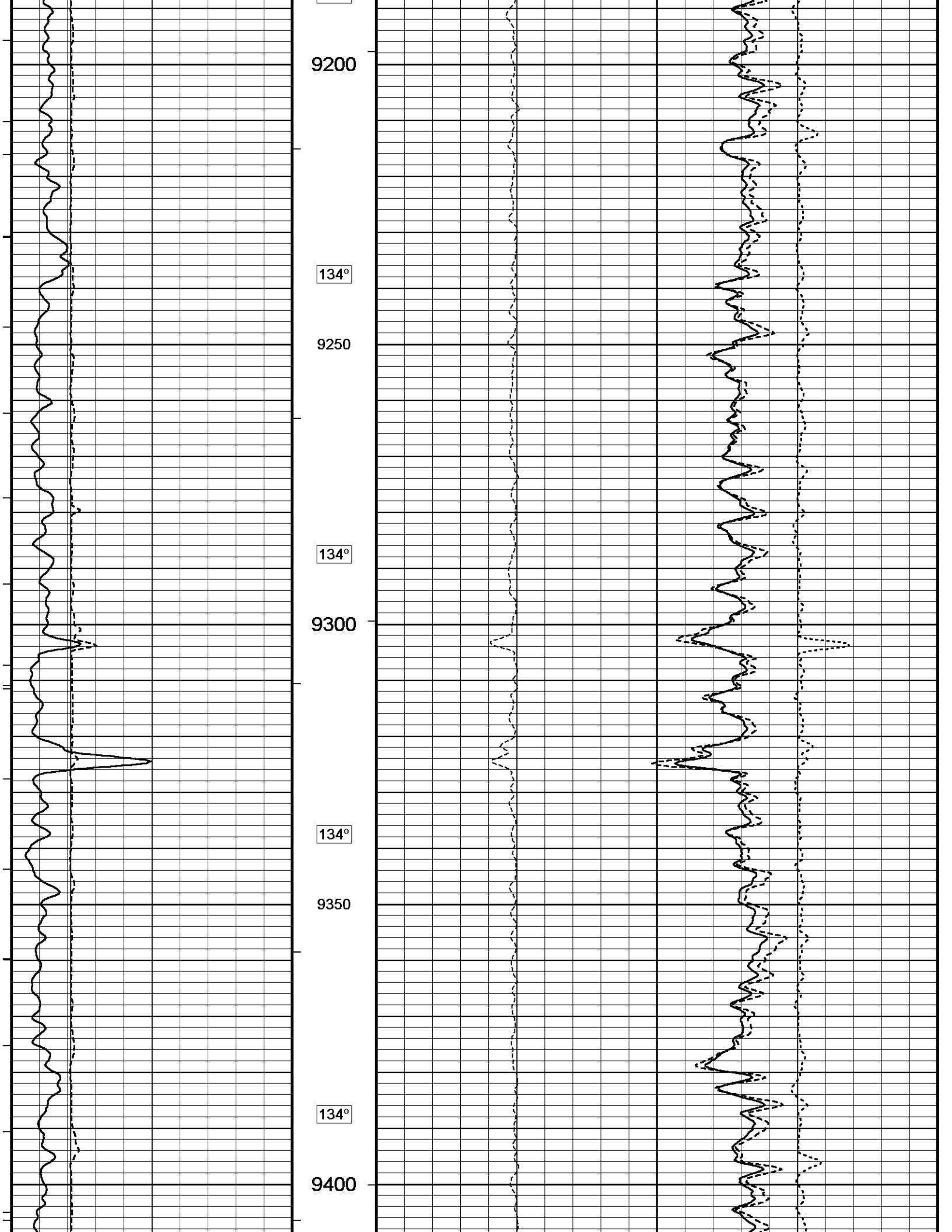
DPRL →

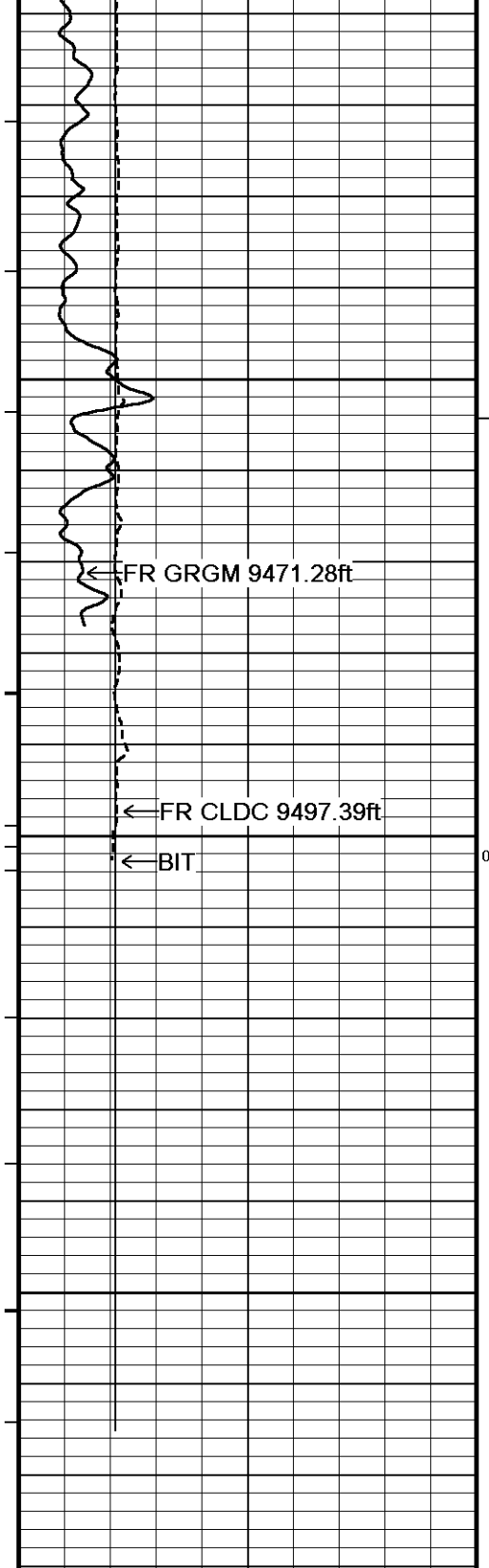
DEN →

DCOR →









134°

9450

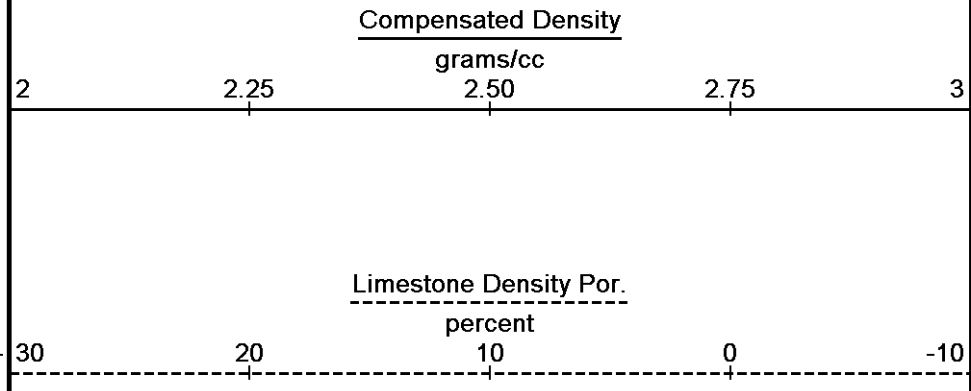
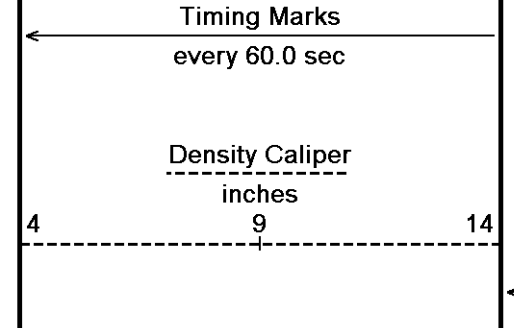
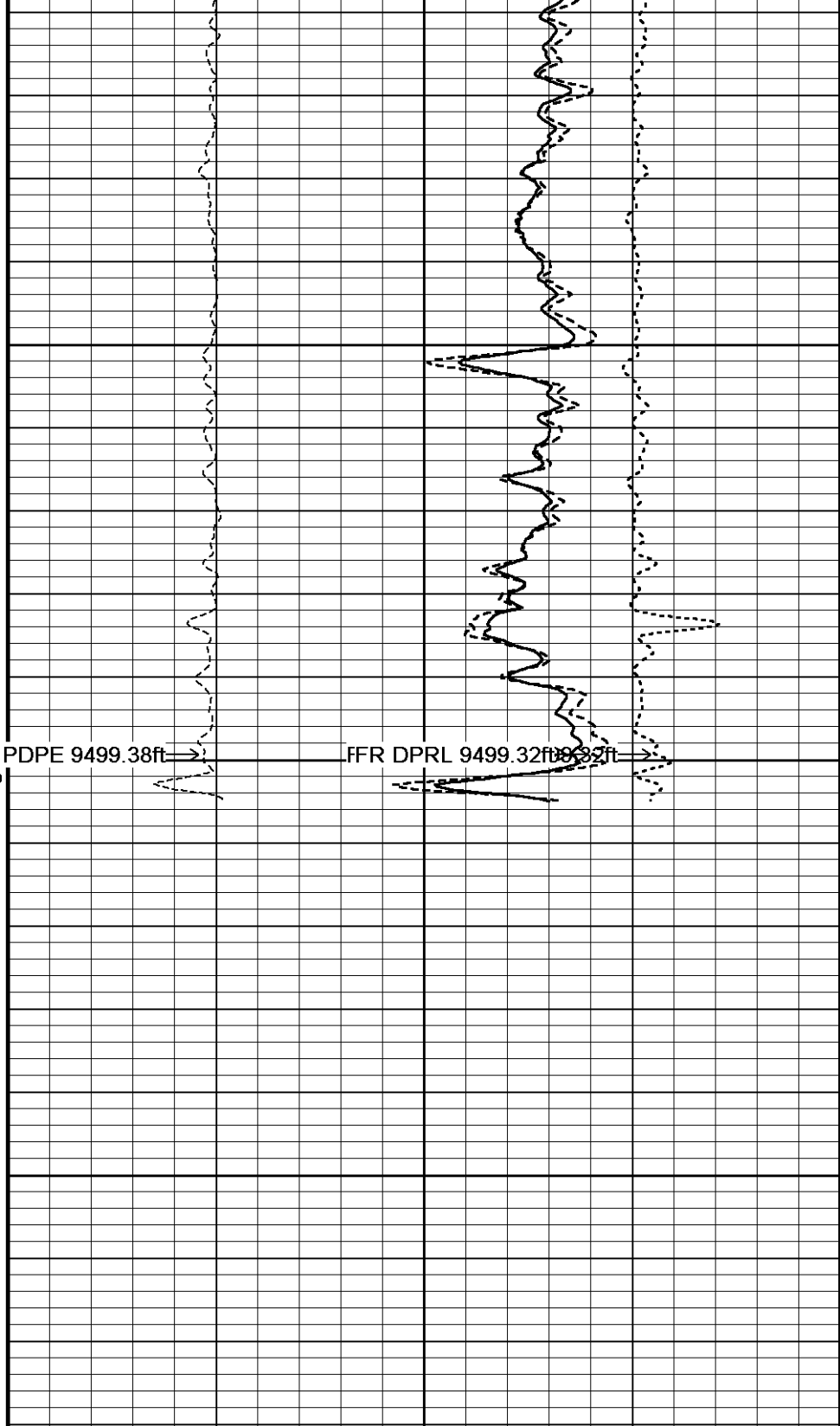
9500

9550

9578

Depth in Feet

Borehole Temp in deg F
HVI every 10 cu ft



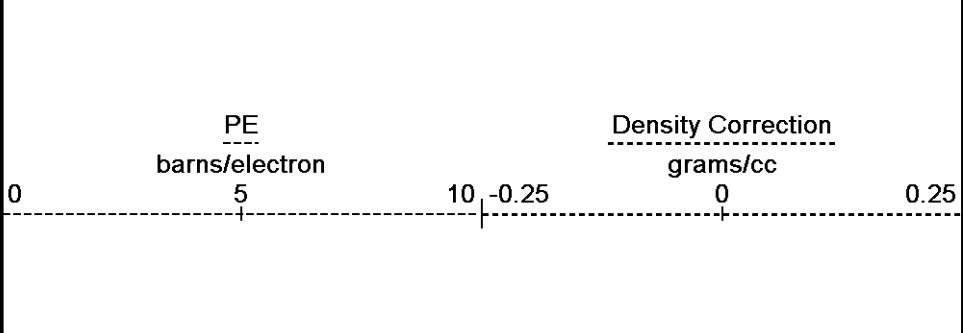
MGs Gamma Ray

Annular

0	API 75	150
150	225	300
Bit Size inches		
4	9	14

Integral
every
10 cu ft

Replay
Scale
1:240



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 07-JUL-2012 02:05
 Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 311...\33046RTAP.dta Recorded on 07-JUL-2012 00:32
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

↑ 5 INCH MAIN LOG ↑

BEFORE SURVEY CALIBRATION
 C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 3119 1-23H\33046RTAP.dta

General Constants All 000 Last Edited on 07-JUL-2012,01:10

General Parameters		
Mud Resistivity	0.900	ohm-metres
Mud Resistivity Temperature	90.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Six Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0 Field Calibration on 07-FEB-2006 14:19

Reading No	Measured	0
1	16292.42	0.00
2	17072.79	420.00

Strain Gauge Constants SER-B.A 150 Last Edited on 25-MAY-2012,13:22

Atmospheric Pressure	14.70	psi						
Serial Number	0							
Calibration Date	000000000000							
Base Check Date								
Dead Weight Serial Number	0							
Dead Weight Gravitational Correction	1.0							
Temperature	75.0	150.0	250.0	350.0	degrees F			
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000		0.000		0.000		0.000	

Strain Gauge Constants MMS-E.B 166 Last Edited on 05-JUL-2012,15:52

Atmospheric Pressure	14.70	psi
Serial Number	0	
Calibration Date	000000000000	
Base Check Date		

Base Check Date								
Dead Weight Serial Number	0							
Dead Weight Gravitational Correction	1.0							
Temperature	75.0		150.0		250.0		350.0 degrees F	
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000		0.000		0.000		0.000	

MMS Parameters MMS-E.B 166

Last Edited on 05-JUL-2012 18:16

Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay	0.0	minutes
Caliper Closed On	Unknown	
Caliper Closed Delay	N/A	minutes
Sample Rate	1.00	seconds
Use Deep Sleep	No	
Delay Deep Sleep	N/A	
Deep Sleep Wake Time	N/A	minutes
Deep Sleep Wake on Temperature	N/A	
Deep Sleep Wake Temperature	N/A	degrees C
Deep Sleep Wake on Pressure	N/A	
Deep Sleep Wake Pressure	N/A	psi
MMI Pad Pressure	8.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	15.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	60.0	seconds
Pulse Duration Caliper Open From	65.0	seconds
Pulse Duration Release Pulse From	120.0	seconds
Pulse Duration Release Pulse To	280.0	seconds
Pulse Release Duration	240.0	seconds
Pulse Discriminator Pressure Band	96.0	seconds
Pulse Pressure Discriminator	213.0	seconds
Use Negative Pulsing	No	
Good Status Reply Open Hole	65535.0	seconds
Good Status Reply Cased Hole	20.0	seconds
Bad Status Reply	60.0	seconds
Status Pulse To	35.0	seconds
Caliper Close To	0.0	seconds
Caliper Open To	80.0	seconds

Configuration

SER,MMS,MGS,MDN,MPD,MPD,MIM,MIE,MAI

Gamma Calibration MGS-C.J 133

Field Calibration on 05-JUL-2012 15:00

	Measured	Calibrated (API)
Background	41	28
Calibrator (Gross)	1055	724
Calibrator (Net)	1014	696

Gamma Constants MGS-C.J 133

Last Edited on 06-JUL-2012,12:06

Gamma Calibrator Number	036	
Mud Density	1.02	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Constants MGS-C.J 133

Last Edited on

Pre-filter Length	11
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Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3277	100	3714	110
	32.858		33.764	
Field Calibrator at Base			Calibrated (cps)	
Ratio			2207	3289
	0.671			
Field Check			Calibrated (cps)	
Ratio			2231	3352
	0.666			

Neutron Constants MDN-B.J 388

Last Edited on 05-JUL-2012,14:40

Neutron Source Id	N1055		
Neutron Jig Number	N639		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.00	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	Constant Value		
Formation Pressure	0.00	kpsi	
Temperature Source	Constant Value		
Temperature	68.00	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

Accelerometer Parameters MIE-A.J 233

Date Of Last Accelerometer Calibration	22-NOV-2011,16:08		
	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.106957	-1.101597	-1.096051
Offset	0.006667	0.007744	-0.005892

Accelerometer Constants MIE-A.J 233

Last Edited on 22-NOV-2011,16:08

Accelerometer Calibrator Number	000			
Accelerometer Temperature Characterisation				
X Accelerometer				
Serial Number	1057			
Calibration Date	27-Apr-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	2.82020e-006	-3.02029e-008	1.94332e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.77285e-004	1.89104e-007	1.67186e-009
Y Accelerometer				
Serial Number	1073			
Calibration Date	02-May-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	-1.04005e-005	2.19294e-008	-1.31489e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.69223e-004	2.39527e-007	9.12553e-010
Z Accelerometer				
Serial Number	977			
Calibration Date	20-Jan-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.86594e-005	1.00709e-008	3.83419e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.74013e-004	2.75506e-007	1.20284e-009

Imager Pad Check MIE-A.J 233

Field Check on

Pad 1	Pad Not Tested	Pad 5	Pad Not Tested
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested

Compact Micro Imager Constants MIE-A.J 233

Last Edited on 06-JUL-2012,12:12

Sonde Configuration	Imager Mode	degrees
Arm-Pad Kit	Normal Pads (12.25 in)	
Centre Pad 1 Rotational Offset	0.00	
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees
Non Active Buttons	Omit	feet
Search Angle	0.00	feet
Correlation Interval	3.28	mAmp
Correlation Step	1.64	mAmp
Current Offset	0.0000	
Squasher Start	N/A	
Image Processing	Enabled	

Caliper Calibration MIE-A.J 233

Base Calibration on 22-NOV-2011 16:05

Field Calibration on 30-MAY-2012 14:18

Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	25479	25668	5.96
2	36118	36010	7.97
3	45775	45499	9.84
4	57747	57059	11.91
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	24613	24005	24629	24615	5.96
2	33696	32386	33383	33850	7.97
3	41885	40590	41925	42007	9.84
4	51911	50551	51787	51761	11.91
5	0	0	0	0	0.00

Field Calibration

Measured		Measured		Actual	
Pads 1-5 Caliper(in)		Pads 3-7 Caliper(in)		Caliper(in)	
6.32		6.07		6.00	
Measured		Measured		Actual	
Pad 2 Caliper(in)		Pad 4 Caliper(in)		Pad 8 Caliper(in)	
3.16		2.92		3.13	
				6.00	

Caliper Constants MIE-A.J 233

Last Edited on 22-NOV-2011,16:06

Caliper Difference for BRKT	0.120	inches
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Magnetometer Parameters MIE-A.J 233

Date Of Last Magnetometer Calibration	22-NOV-2011,16:09		
	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-1.002341	-0.997182
Offset	0.005318	-0.018938	0.000387

Magnetometer Constants MIE-A.J 233

Last Edited on

Magnetometer Calibrator Number	000
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Navigation Constants MIE-A.J 233

Last Edited on 06-JUL-2012,12:12

Magnetic Declination	5.41	degrees	East
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Induction Calibration MAI-B.J 390

Base Calibration on 16-AUG-2010 14:24

Field Check on 05-JUL-2012 14:31

Base Calibration

Test Loop Calibration Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	16.8	458.6	9.3	966.2

2	6.3	377.7	7.6	821.4
3	3.8	258.6	5.2	566.0
4	1.9	132.3	2.6	279.2

Array Temperature 77.9 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	15.4	3954.5
2	0.0	0.0	30.8	3557.2
3	0.0	0.0	28.5	3056.0
4	0.0	0.0	20.0	2084.2
Deep	0.0	0.0	17.5	2002.6
Medium	0.0	0.0	41.0	4005.1
Shallow	0.0	0.0	46.0	5251.5
Array Temperature	0.0		90.7	Deg F

Induction Constants MAI-B.J 390

Last Edited on 07-JUL-2012,01:10

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	N/A	inches	
Tool Centred	No		
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	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MGS External Temperature		
Squasher Start	0.0060	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	
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		

High Resolution Temperature Calibration MAI-B.J 390

Field Calibration on 07-NOV-2011 02:31

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-B.J 390

Last Edited on

Pre-filter Length 11

Photo Density Calibration MPD-C.J 434

Base Calibration on 29-JUN-2012 10:58

Field Check on 05-JUL-2012 14:40

Density Calibration	Measured	Calibrated (sdu)
Base Calibration	Measured	Calibrated (sdu)
	Measured	Calibrated (sdu)
	Measured	Calibrated (sdu)

	Near	Far	Near	Far
Reference 1	52940	25712	59869	31110
Reference 2	21852	2601	24557	2522

Field Check at Base
1309.1 1448.8

Field Check
1303.1 1448.2

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	237	1166		
Reference 1	21674	52729	0.416	0.369
Reference 2	6063	21699	0.284	0.271

Field Check at Base
237.1 1166.2

Field Check
236.8 1163.4

Density Constants MPD-C.J 434

Last Edited on 06-JUL-2012,12:06

Density Source Id	236	
Nylon Calibrator Number	633	
Aluminium Calibrator Number	633	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.02	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix density (gm/cc)	Depth (m)	
2.71		
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD-C.J 434

Base Calibration on 29-JUN-2012 11:22
Field Calibration on 05-JUL-2012 14:35

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	16576	4.02
2	26320	6.00
3	36352	8.03
4	46544	10.02
5	57344	12.01
6	N/A	N/A
Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	5.94	6.00

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 3119 1-23H\33046RTAP.dta



SMR-A 166 LG: 8.53 ft WT: 77.2 lb OD: 2.52 in

Shuttle Electrical Release

SER-B.A 150 LG: 6.90 ft WT: 50.7 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub

MBS-G.A 113 LG: 16.66 ft WT: 132.3 lb OD: 2.24 in

Compact Memory Sub E.B

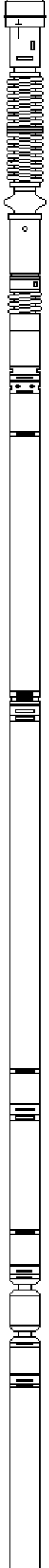
MMS-E.B 166 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint

SKJ-E.B 458 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Spacer - Empty Battery

MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in



SKJ-E.B Compact Knuckle Joint
SKJ-E.B 478 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 63 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 133 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

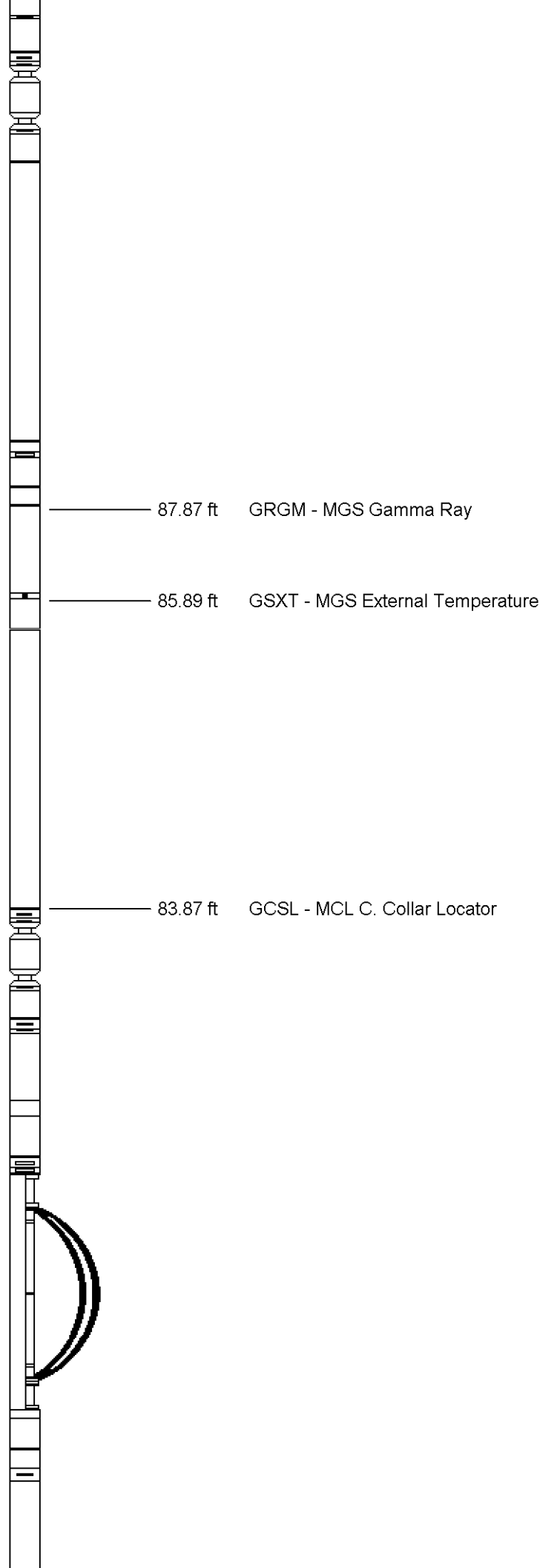
Compact Collar Locator
MCL-B.J 69 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 479 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

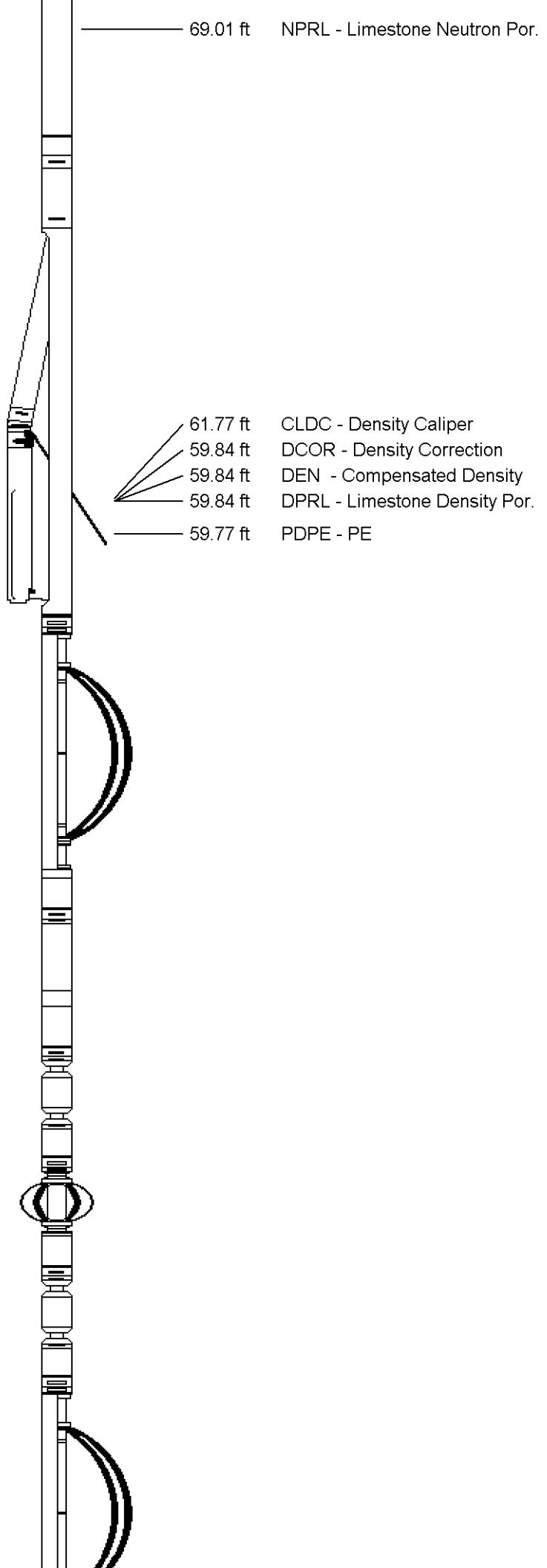
SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 431 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 606 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
MDN-B.J 388 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in



Compact Density/Caliper
MPD-C.J 434 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in



MIS-A.A Compact Inline Bowspring sub
MIS-A.A 275 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 434 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 474 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 578 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 455 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 593 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section

MIM-A.J 233 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

Compact MMI Electrode Section

MIE-A.J 233 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

MIS-A.A Compact Inline Bowspring sub

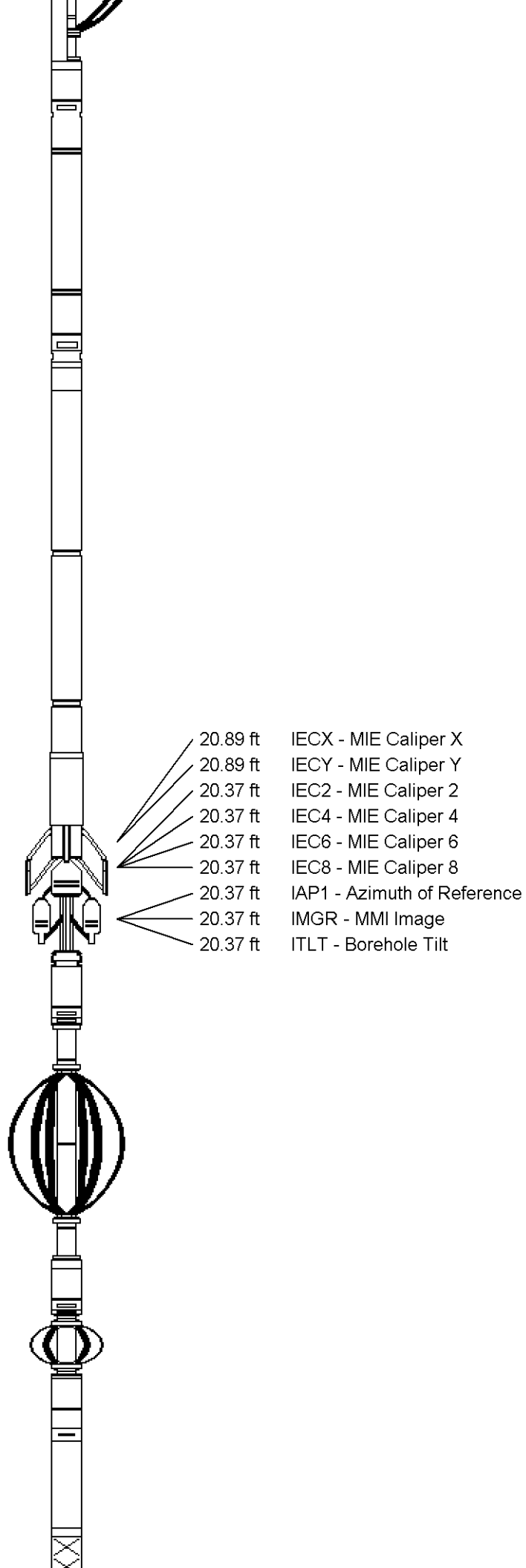
MIS-A.A 62 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

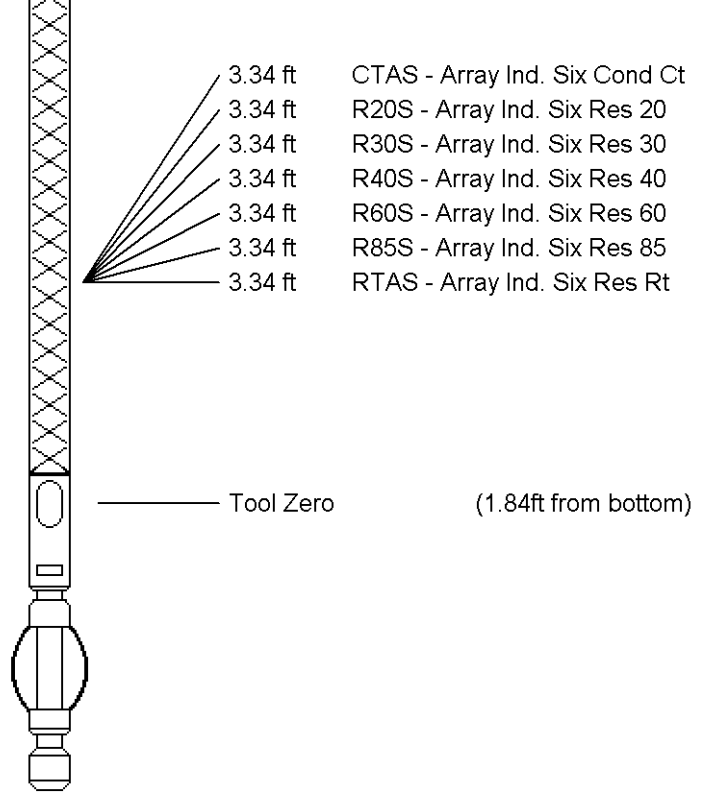
MIS-E.B Compact Inline Standoff sub

MIS-E.B 595 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction

MAI-B.J 390 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in





Total Length: 147.91 ft Weight: 1036.2 lb All measurements relative to tool zero.

COMPANY	SANDRIDGE ENERGY		
WELL	KELLY DANIELLE 3119 1-23H		
FIELD	SIX MOONS		
PROVINCE/COUNTY	COMANCHE		
COUNTRY/STATE	USA / KANSAS		

Elevation Kelly Bushing	2153.00	feet	First Reading	9503.00	feet
Elevation Drill Floor	2153.00	feet	Depth Driller	9593.00	feet
Elevation Ground Level	2133.00	feet	Depth Logger	9593.00	feet



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CML IMPULSE SHUTTLE
 COMPACT PHOTO DENSITY
 COMPENSATED NEUTRON LOG