



Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY O'BRIEN RESOURCES, LLC
WELL PRATHER FARMS 22 #1
FIELD WILDCAT
PROVINCE/COUNTY GOVE
COUNTRY/STATE U.S.A. / KANSAS
LOCATION 1002' FSL & 1965' FEL

SEC 22 TWP 14S RGE 30W Other Services MDN/MPD
API Number 15-063-22108 MML
Permit Number MSS

Permanent Datum GL, Elevation 2778 feet
Log Measured From KB
Drilling Measured From KB @ 10 FEET

Elevations: KB 2788.00
DF 2786.00
GL 2778.00

Date	23-MAY-2013
Run Number	ONE
Service Order	3539055
Depth Driller	4650.00 feet
Depth Logger	4651.00 feet
First Reading	4648.00 feet
Last Reading	260.00 feet
Casing Driller	258.00 feet
Casing Logger	260.00 feet
Bit Size	7.875 inches
Hole Fluid Type	CHEMICAL
Density / Viscosity	9.30 lb/USg 53.00 CP
PH / Fluid Loss	9.50 6.80 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	1.43 @ 80.0 ohm-m
Rmf @ Measured Temp	1.14 @ 80.0 ohm-m
Rmc @ Measured Temp	1.72 @ 80.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.93 @123.0 ohm-m
Time Since Circulation	4 HOURS
Max Recorded Temp	123.00 deg F
Equipment / Base	13057 LIB
Recorded By	ROB HOFFMAN
Witnessed By	SEAN DEENIHAN
JOB #	LIB13-147

BOREHOLE RECORD			Last Edited: 23-MAY-2013 13:40	
Bit Size inches	Depth From feet	Depth To feet		
7.875	260.00	4651.00		
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	260.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.05.9583.
- RUN 1: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL ECCENTRALISER USED ON MDN
 - 0.5 INCH STANDOFF USED ON MFE.
 - TWO 0.5 INCH STANDOFFS USED ON MSS.
 - 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO 260 FEET: 1565 CU. FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 3500 FEET: 259 CU. FT.

- RIG: MAVERICK DRILLING #106

- ENGINEER: ROB HOFFMAN, DEREK CARTER

- OPERATOR(S): DAVID CANADAY

****SONIC WAS WORKING ON CASING CHECK, AFTER GOING DOWNHOLE, SONIC QUIT WORKING PROPERLY BEFORE WE RAN THE REPEAT. TRANSIT TIME READINGS WERE ERRATC.****

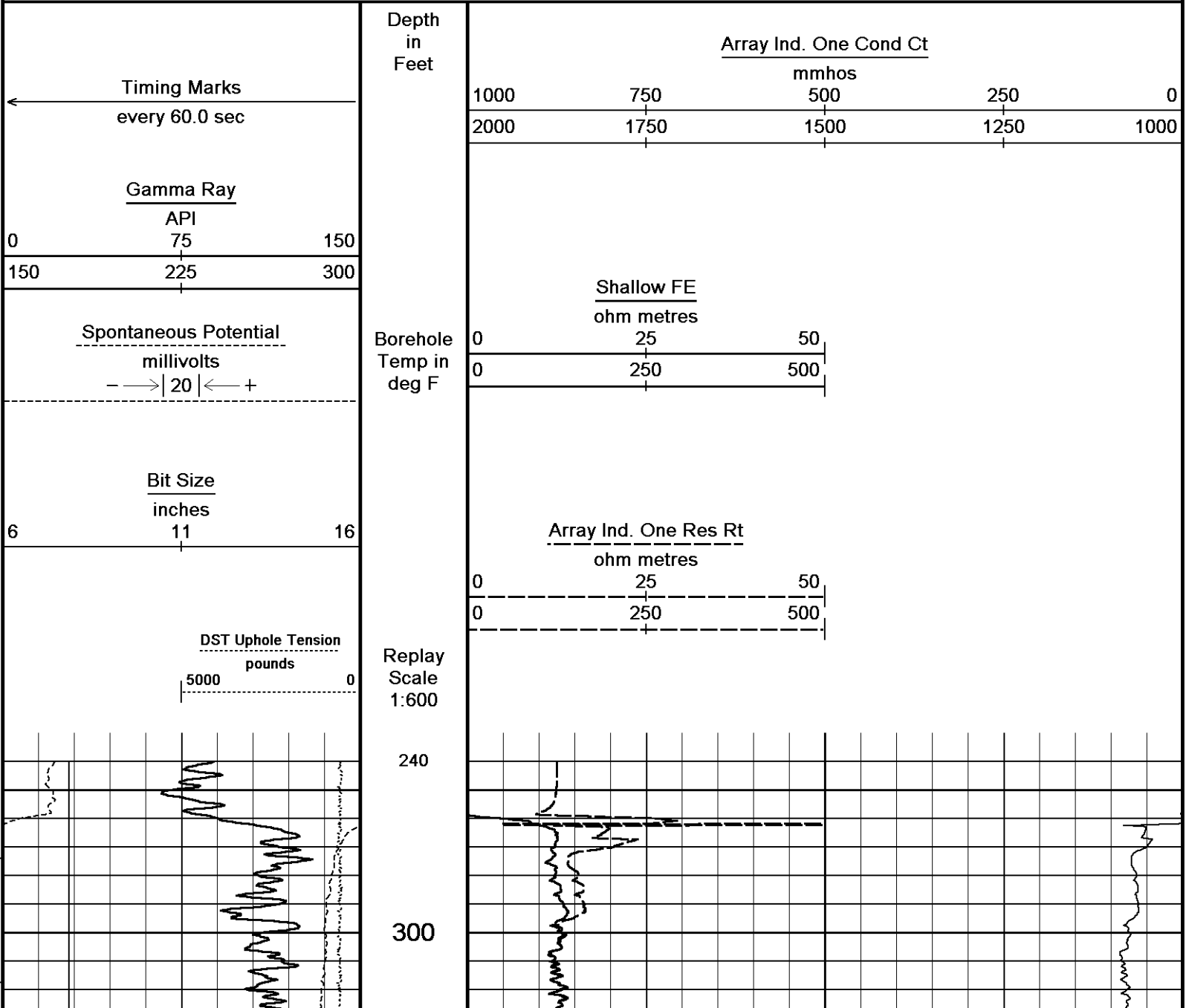
****CUSTOMER DECIDED THEY DID NOT WANT US TO RUN ANOTHER SONIC****

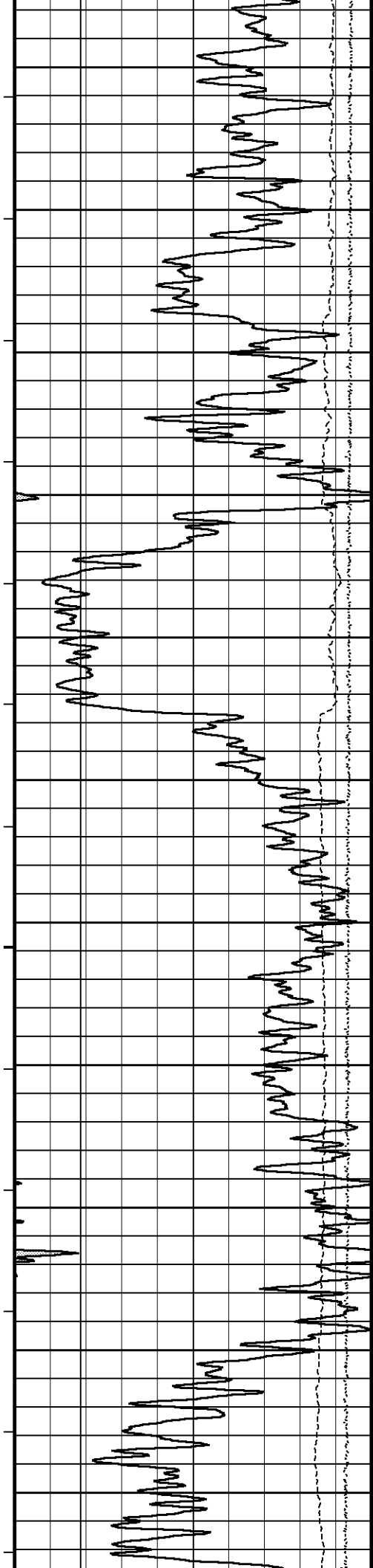
****NO SONIC DATA IS BEING PRESENTED****

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.

2 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-MAY-2013 15:09
Filename: C:\Minimus 13.05.9583\Logs\O'Brien Res...\O'Brien Resources Prather Farms 22 #1_002.dta Recorded on 23-MAY-2013 12:27
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583





94°

400

95°

500

95°

600

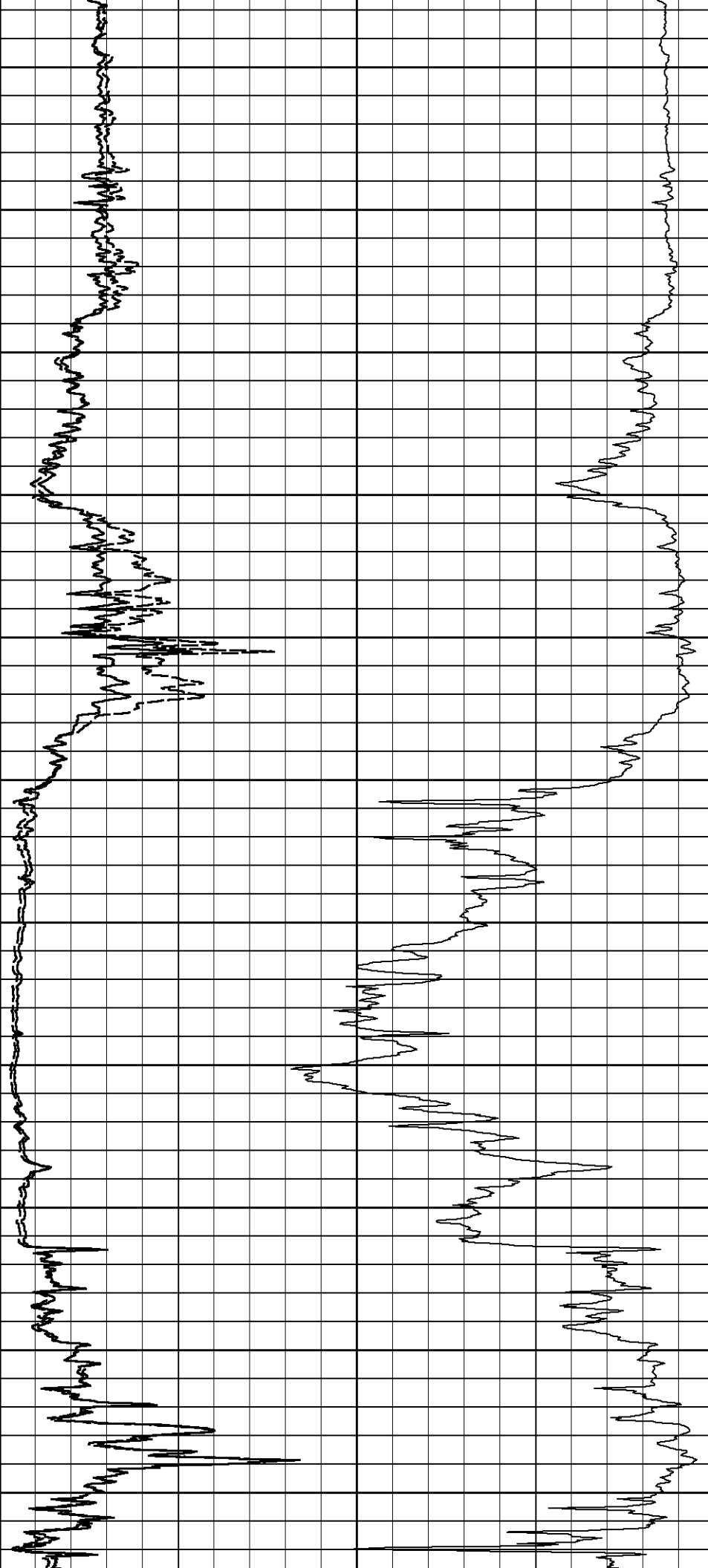
97°

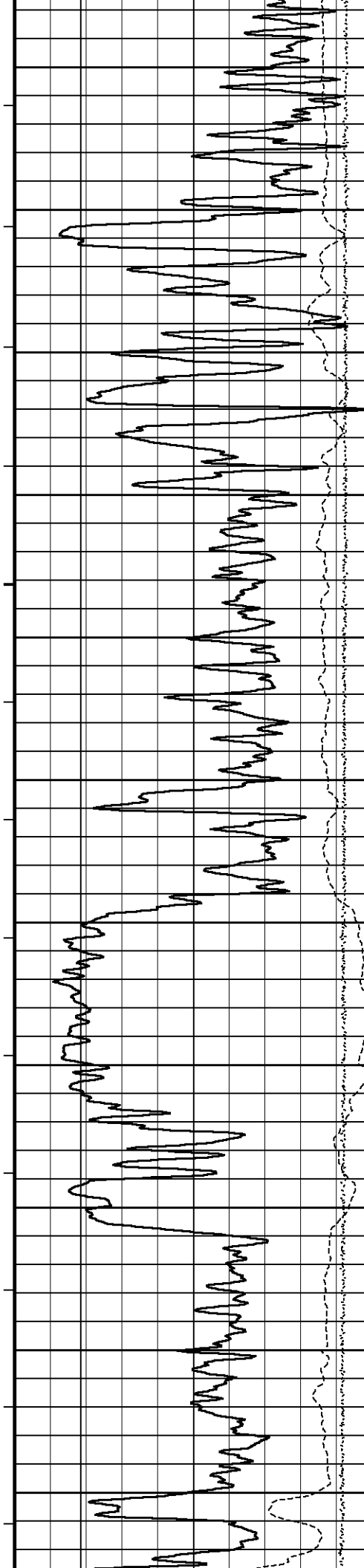
700

97°

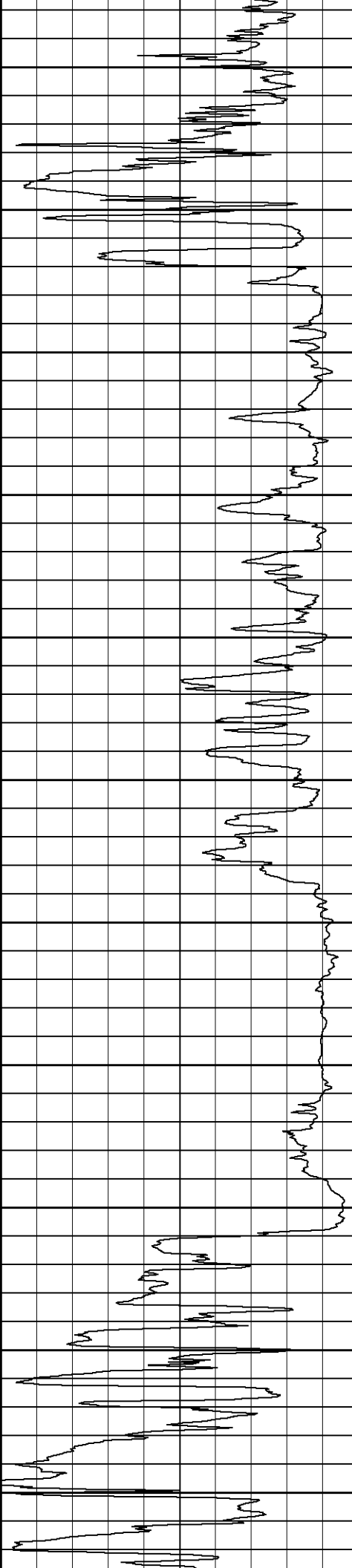
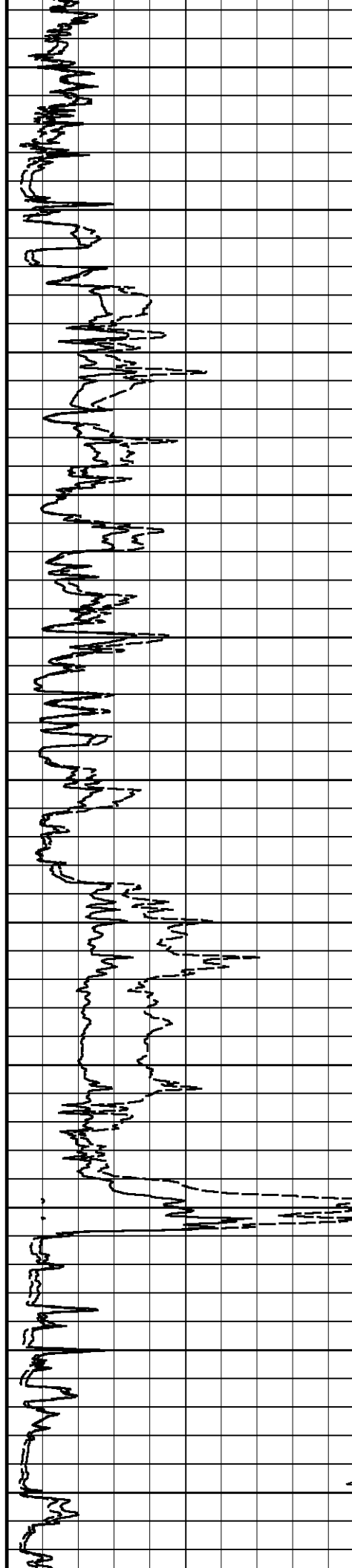
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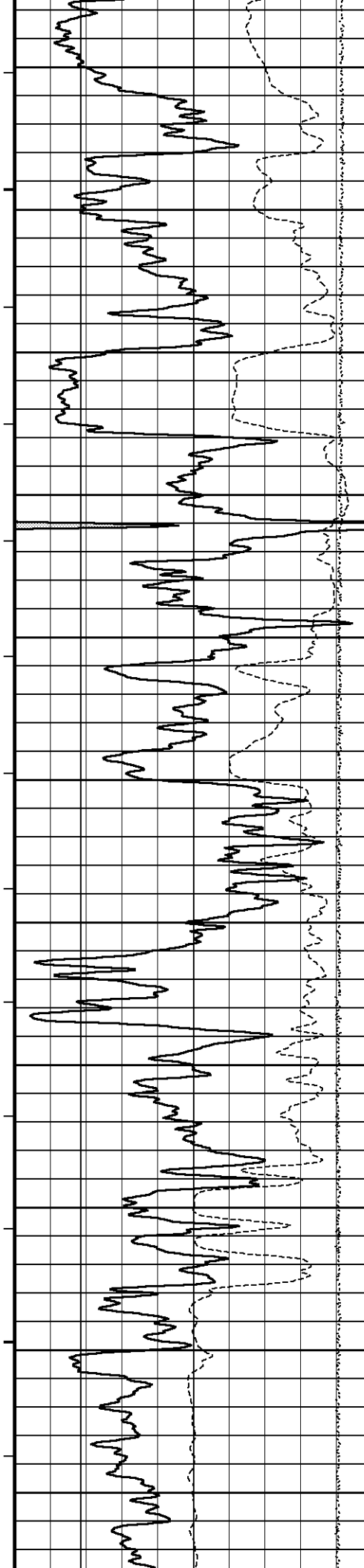
98°



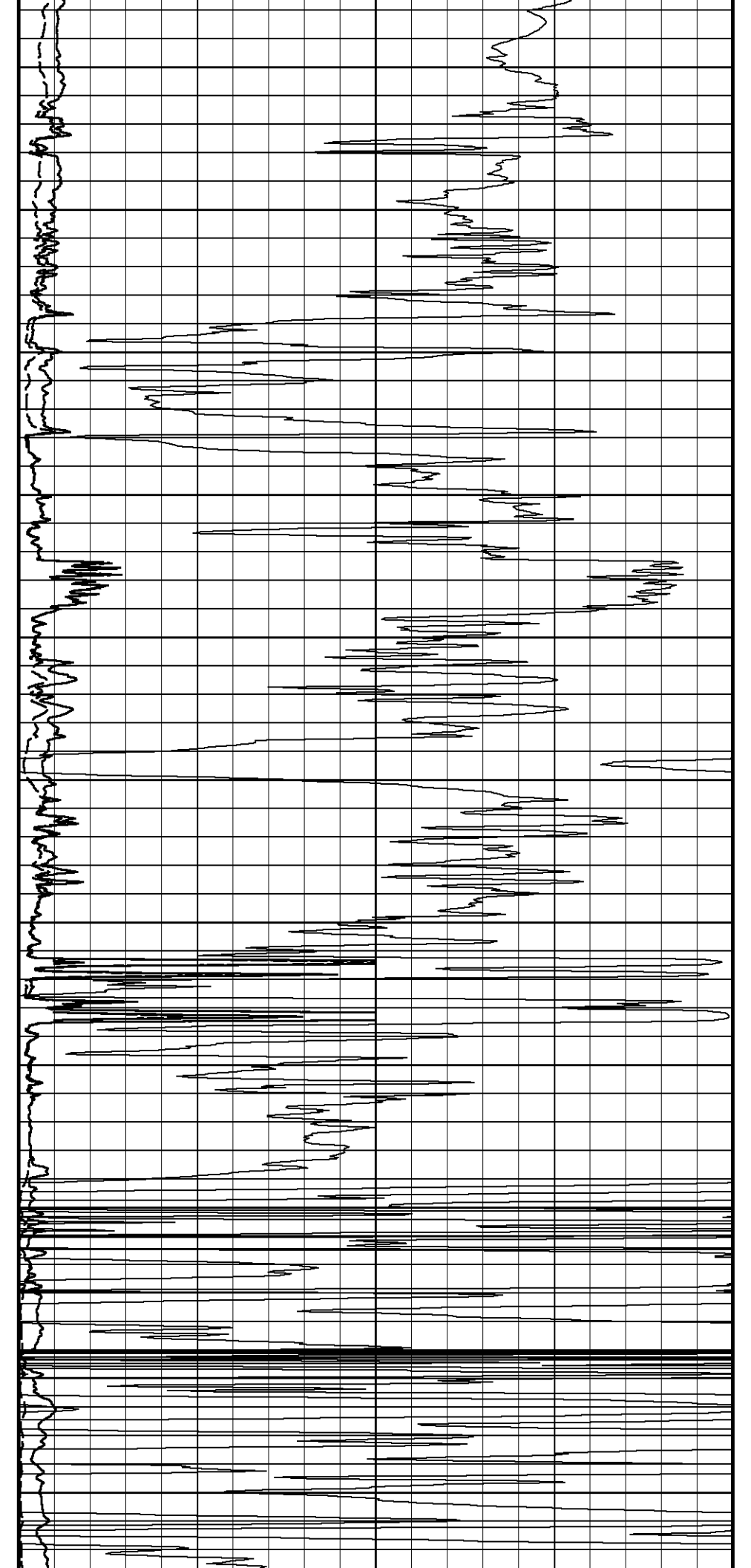


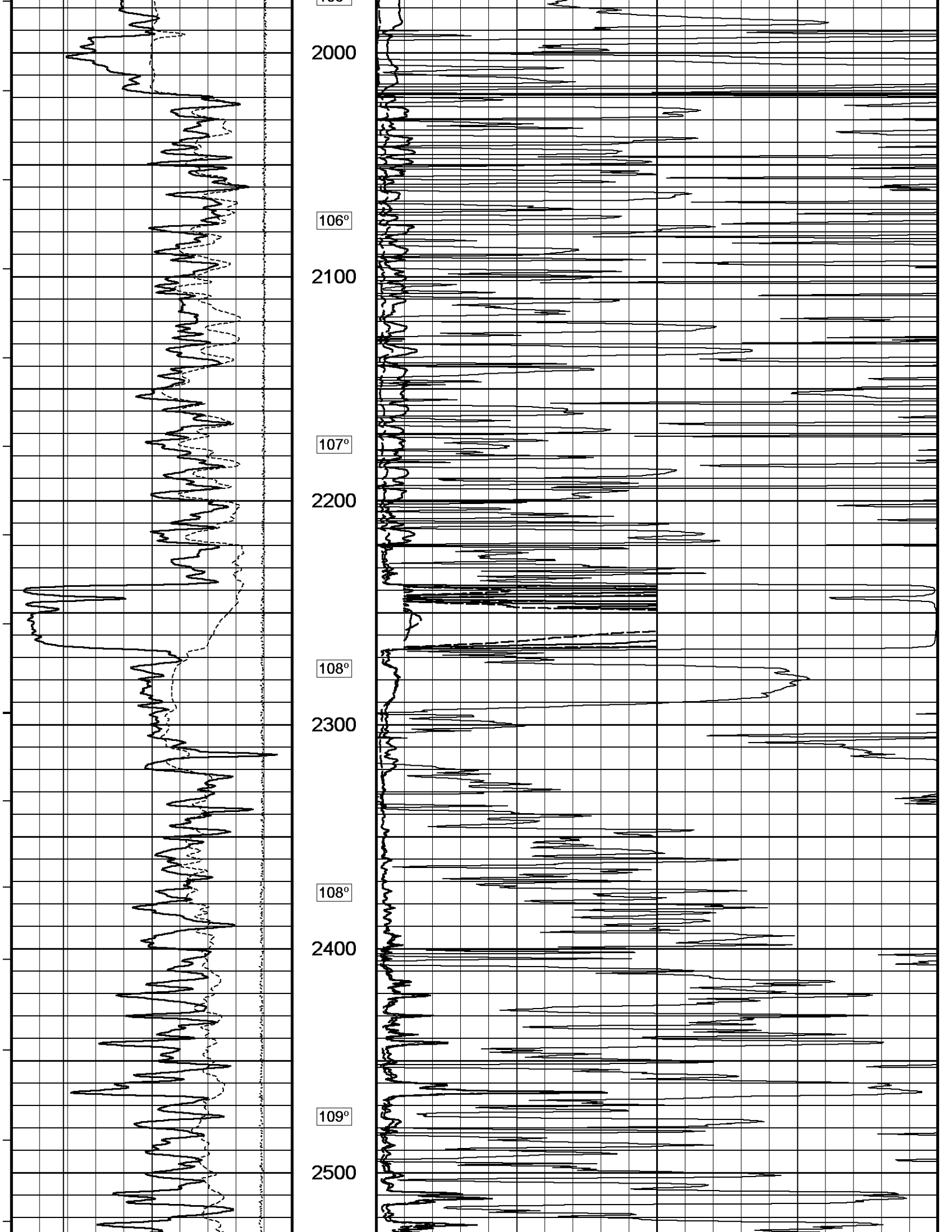
900
98°
1000
100°
1100
100°
1200
101°
1300
102°
1400

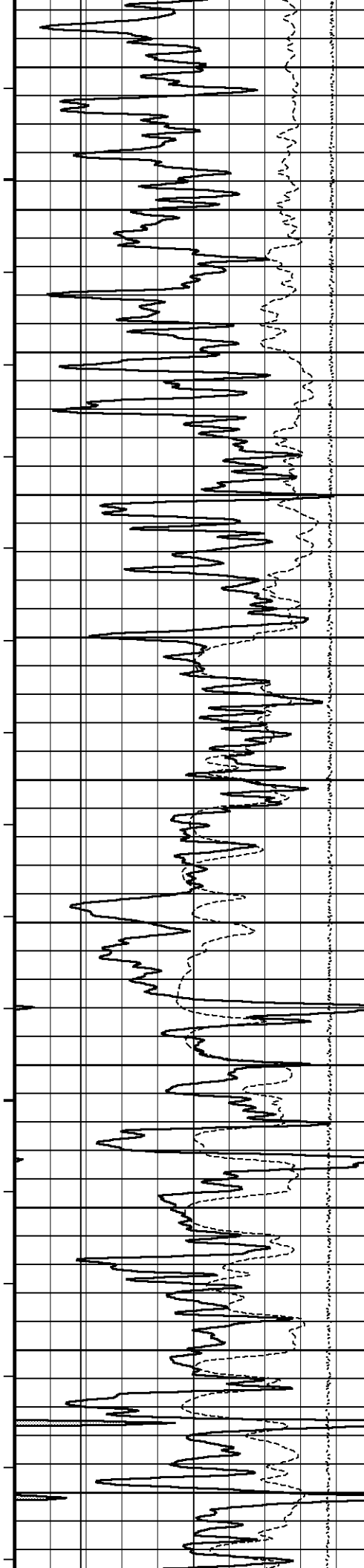




102°
1500
103°
1600
104°
1700
105°
1800
105°
1900
106°







110°

2600

110°

2700

111°

2800

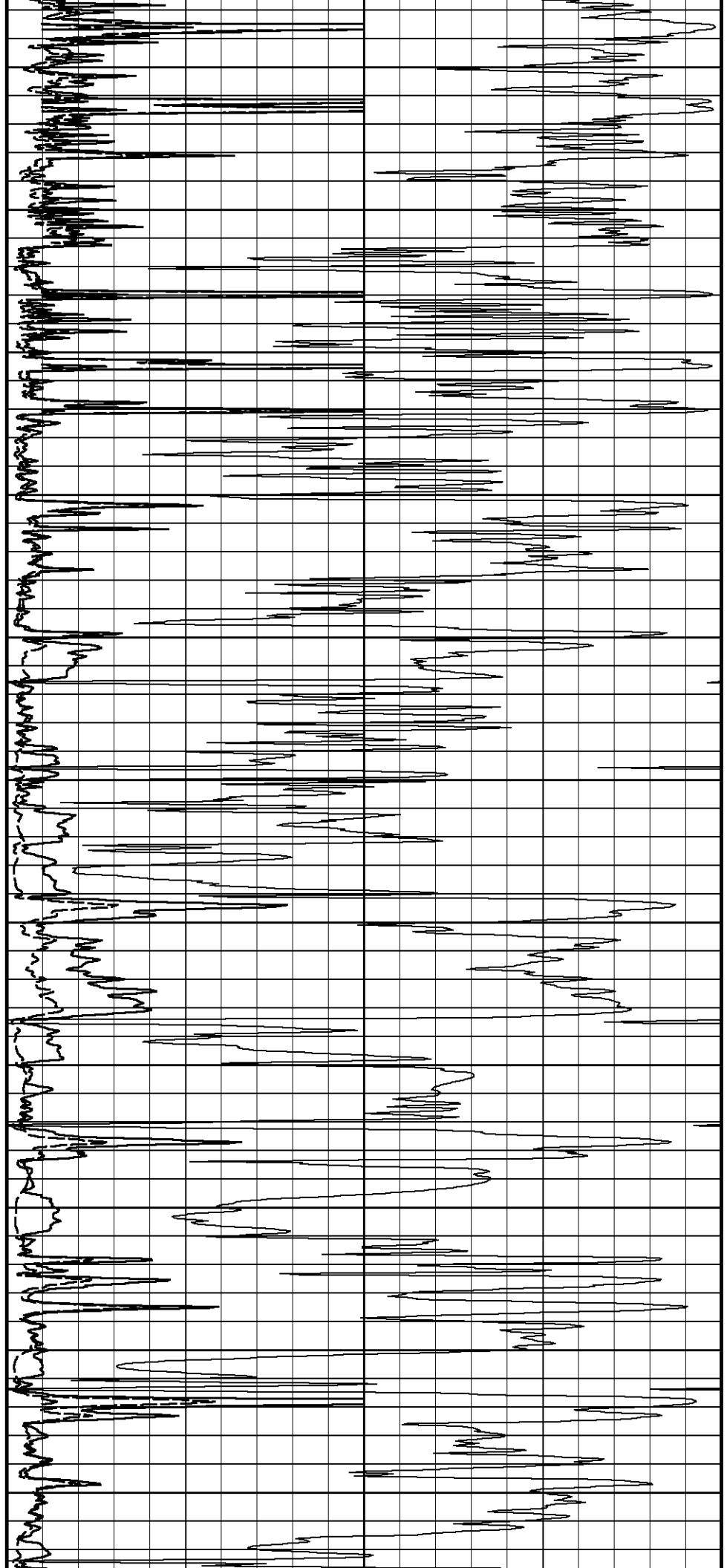
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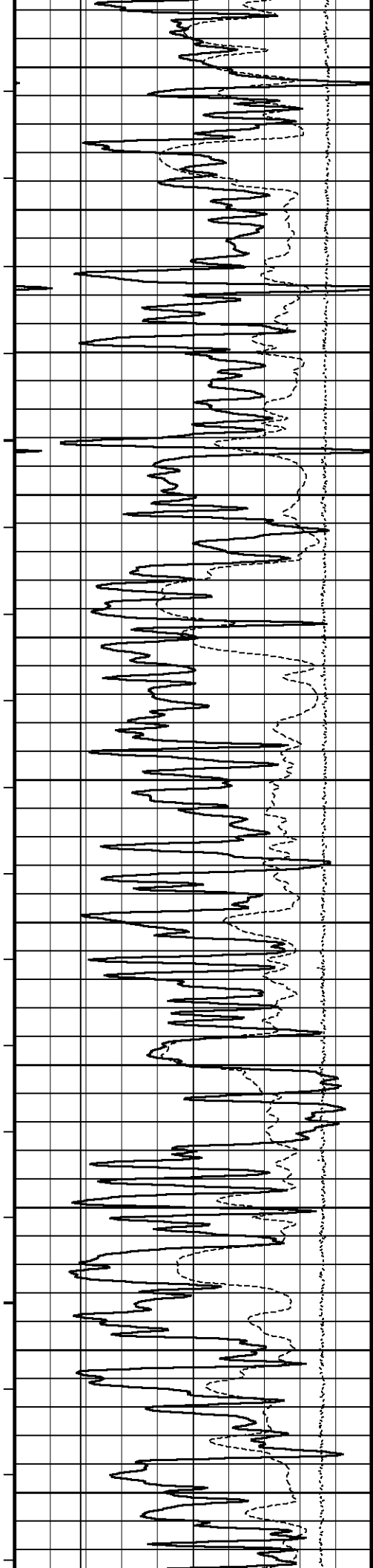
2900

112°

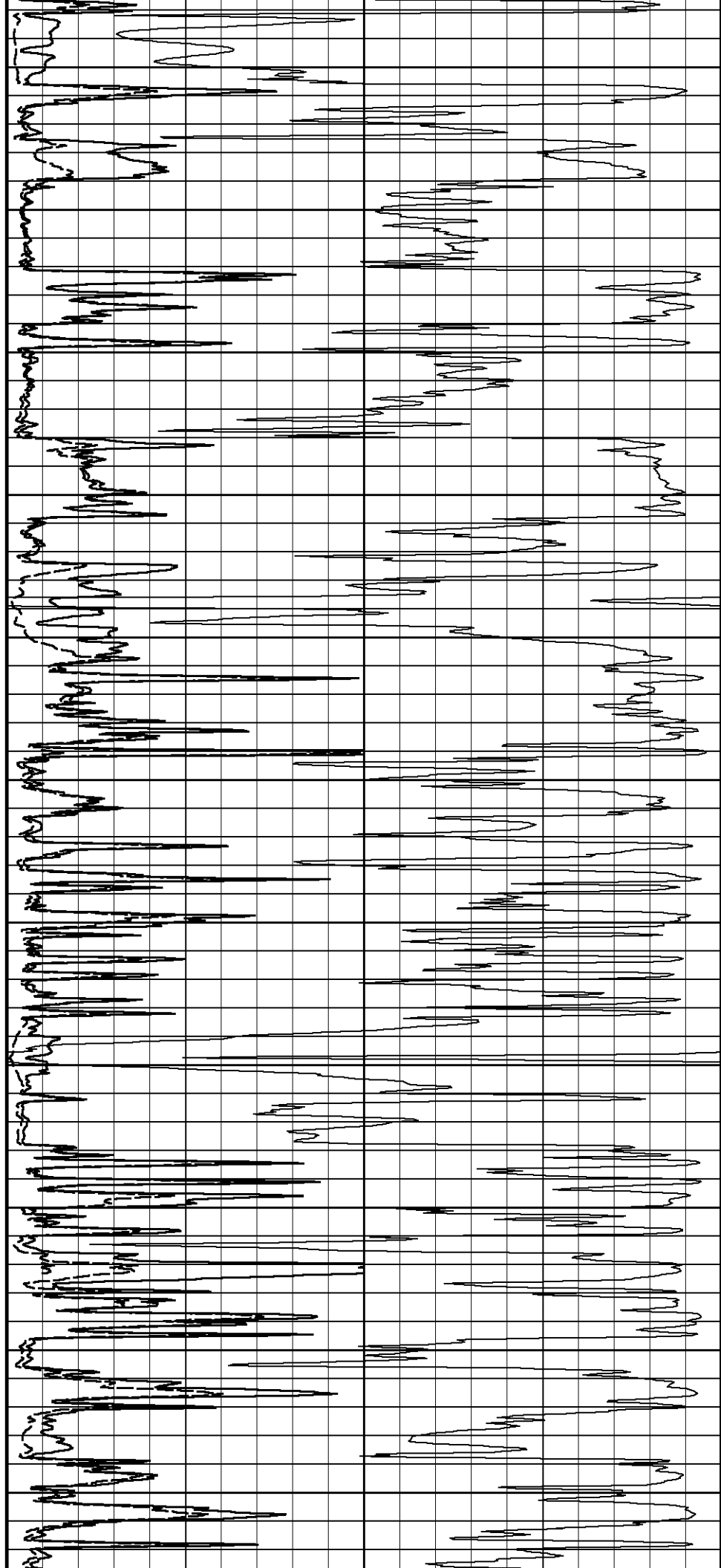
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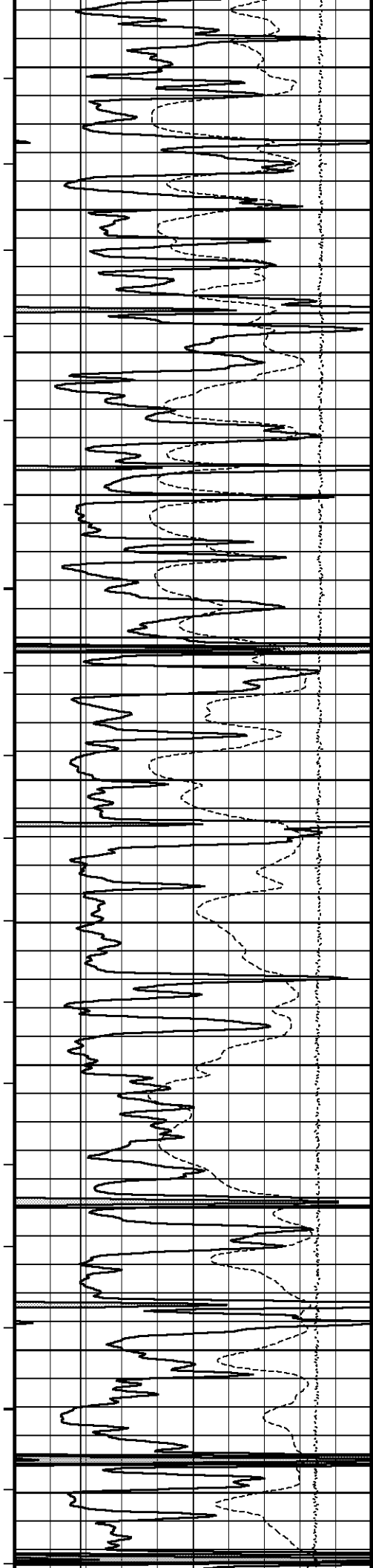
113°





113°
3100
113°
3200
114°
3300
114°
3400
115°
3500
116°
3600





116°

3700

117°

3800

117°

3900

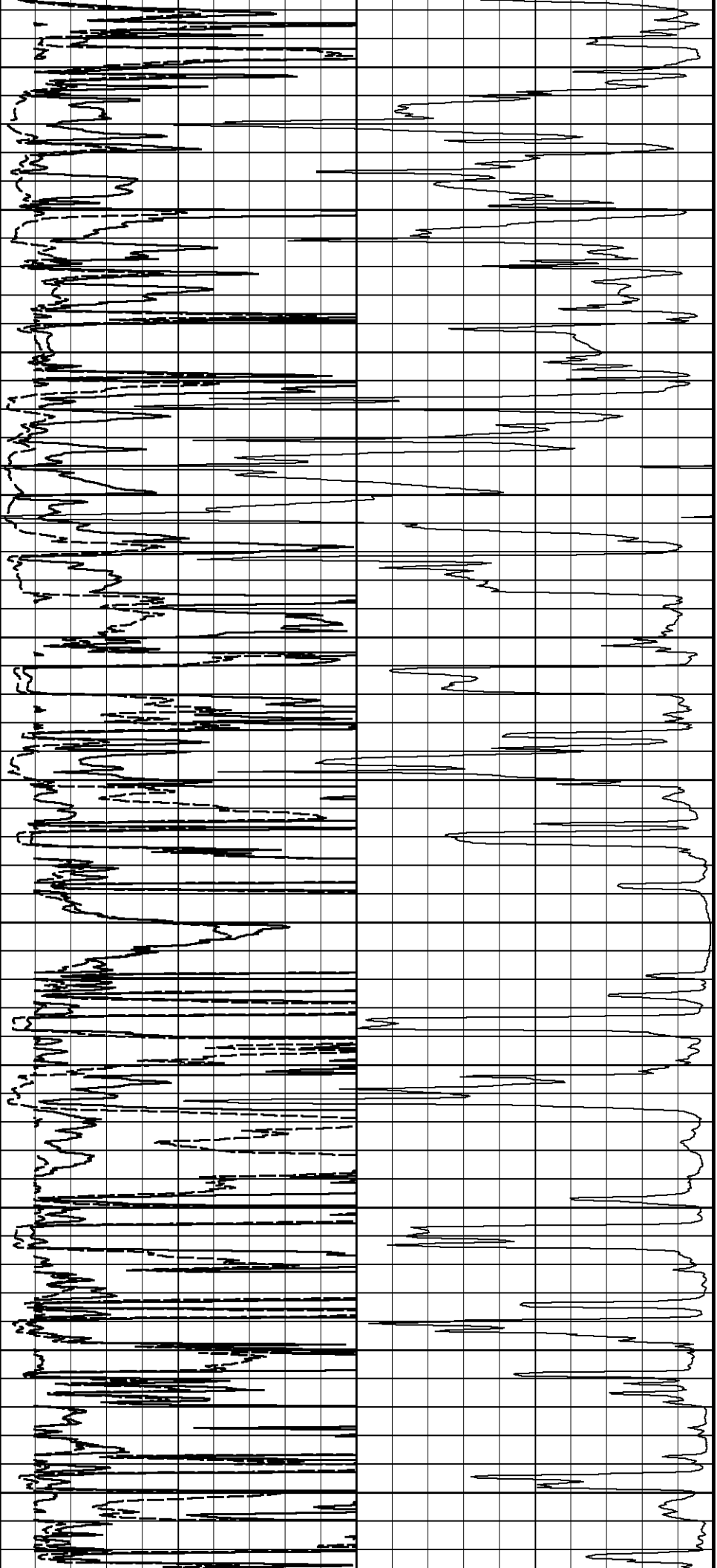
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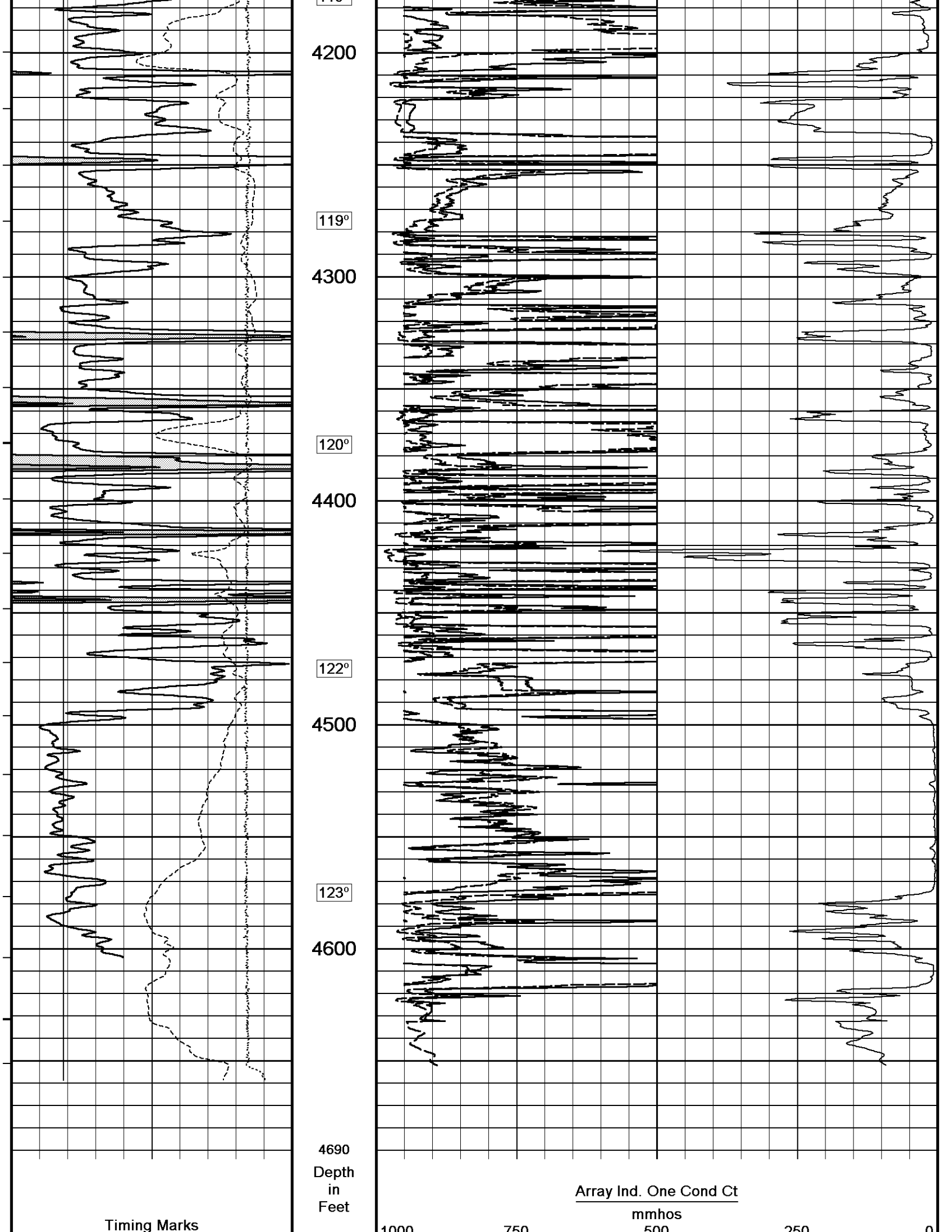
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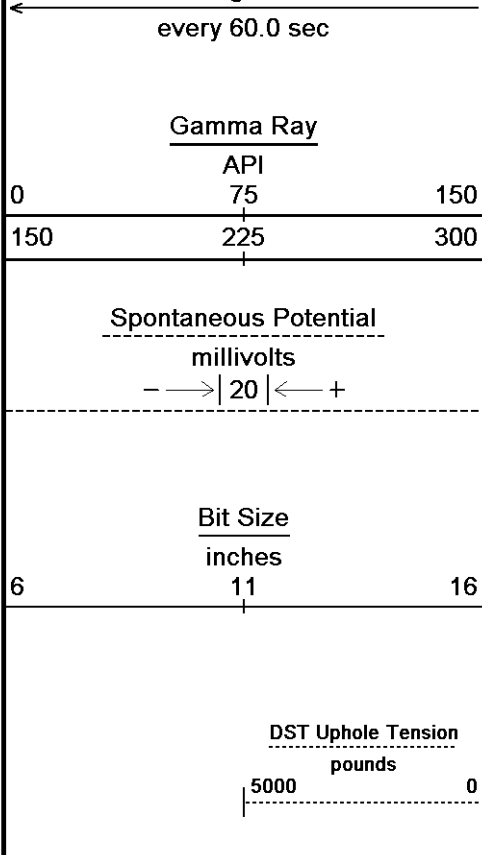
118°

4100

119°

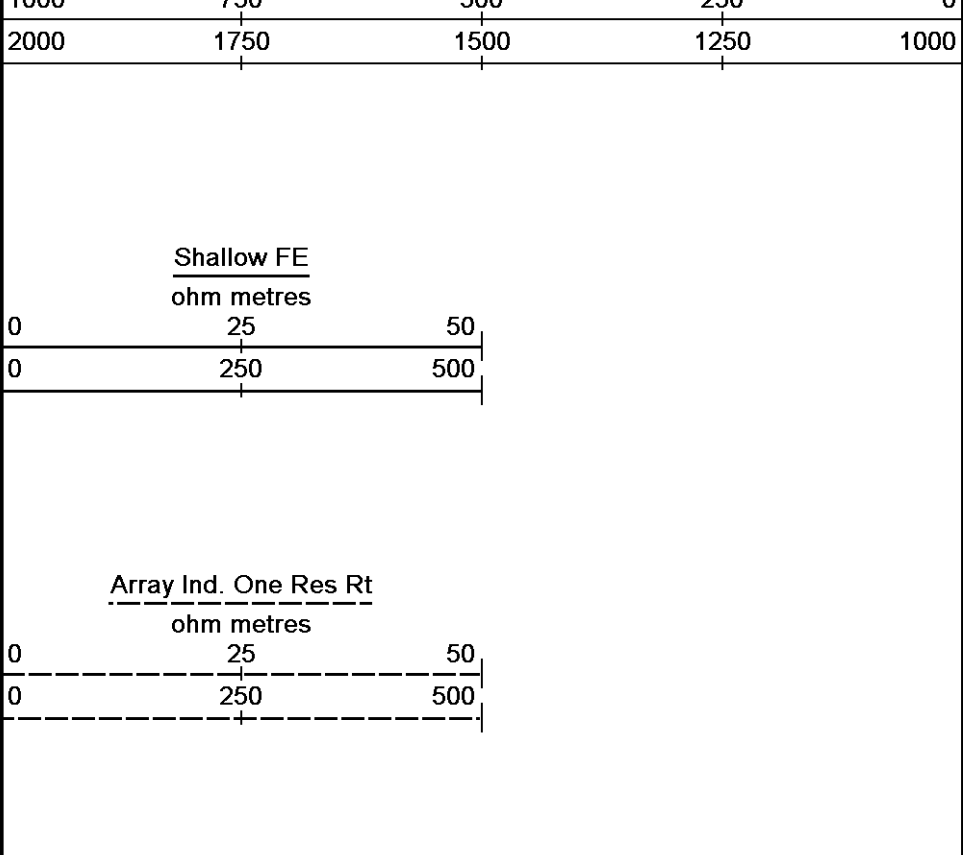






Borehole
Temp in
deg F

Replay
Scale
1:600

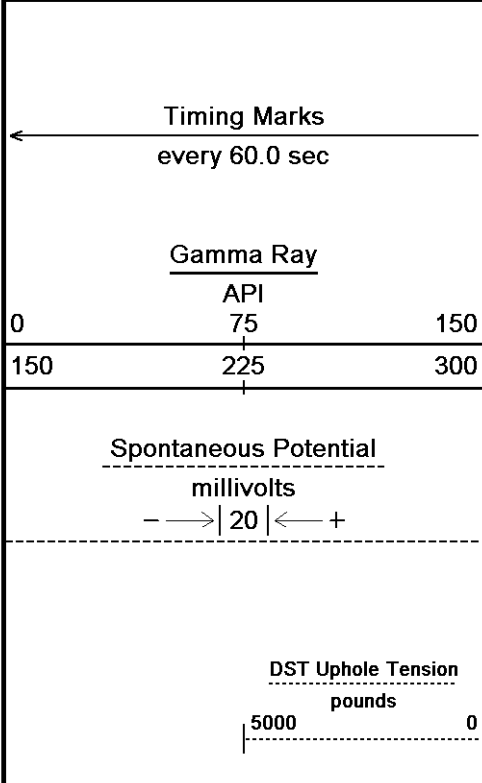


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-MAY-2013 15:09
 Filename: C:\Minimus 13.05.9583\Logs\O'Brien Res...\O'Brien Resources Prather Farms 22 #1_002.dta Recorded on 23-MAY-2013 12:27
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↑ 2 INCH MAIN ↑

↓ 5 INCH MAIN ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-MAY-2013 15:09
 Filename: C:\Minimus 13.05.9583\Logs\O'Brien Res...\O'Brien Resources Prather Farms 22 #1_002.dta Recorded on 23-MAY-2013 12:27
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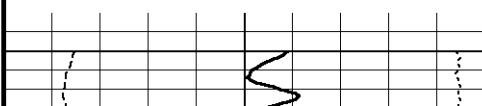
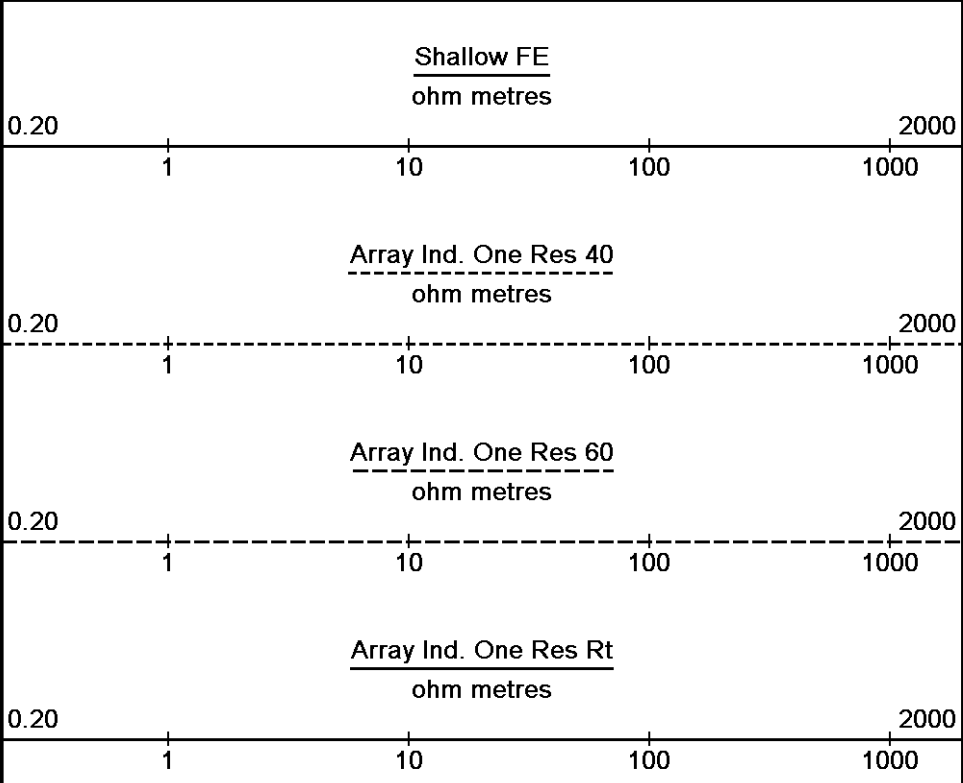


Depth
in
Feet

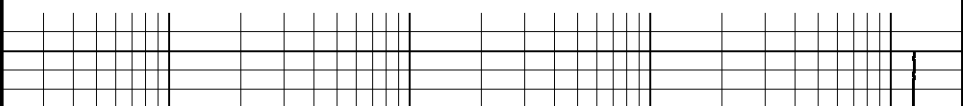
Borehole
Temp in
deg F
HVI
every
10 cu ft

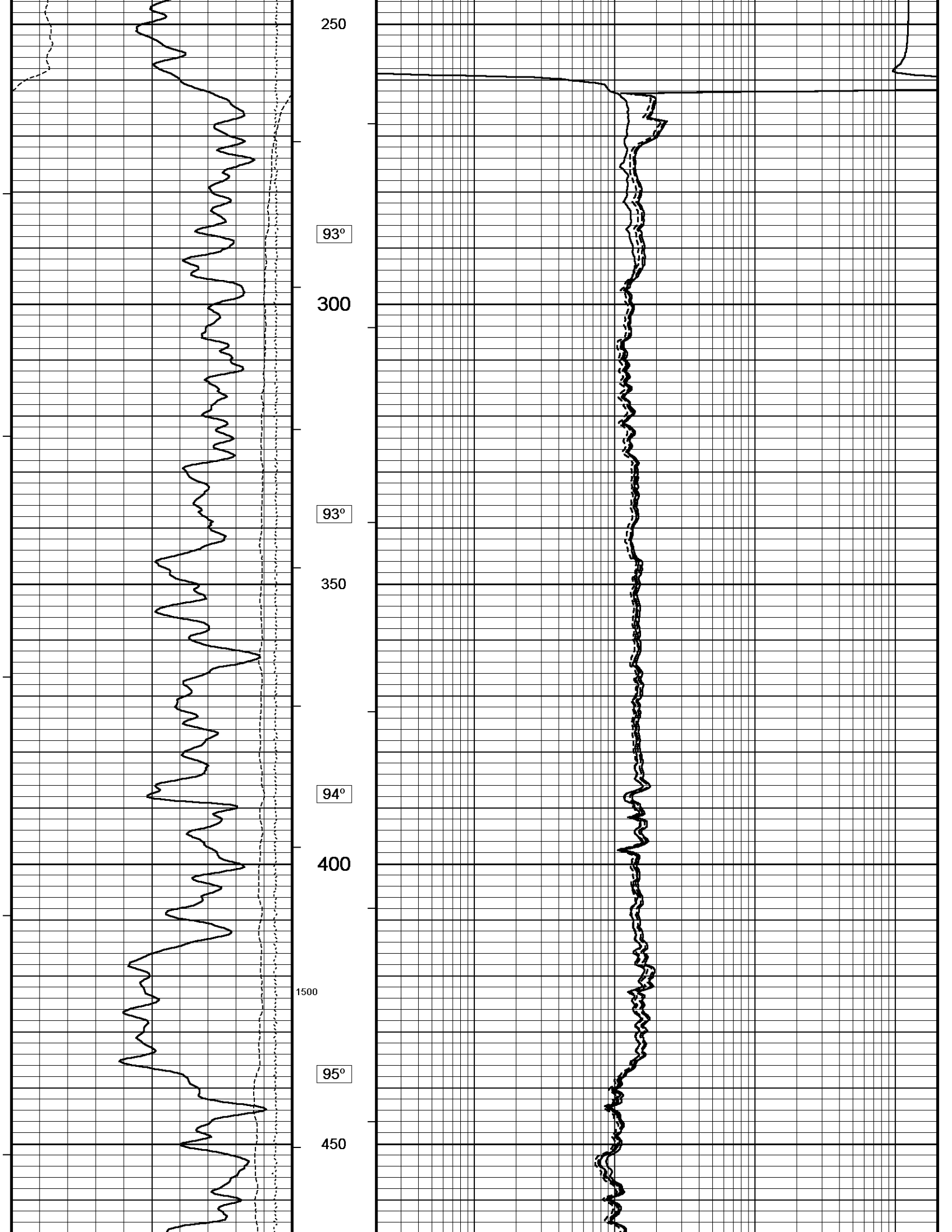
Annular
Integral
every
10 cu ft

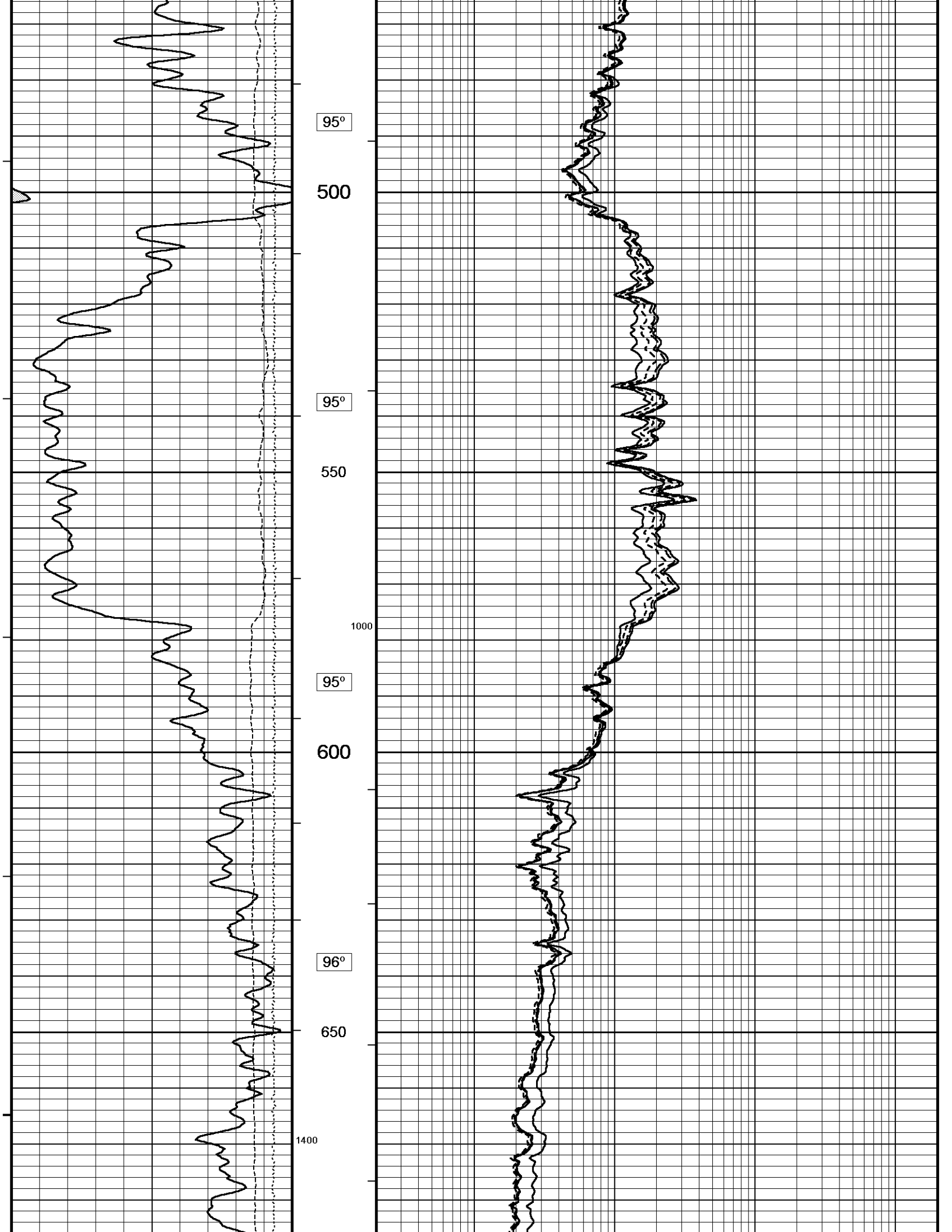
Replay
Scale
1:240

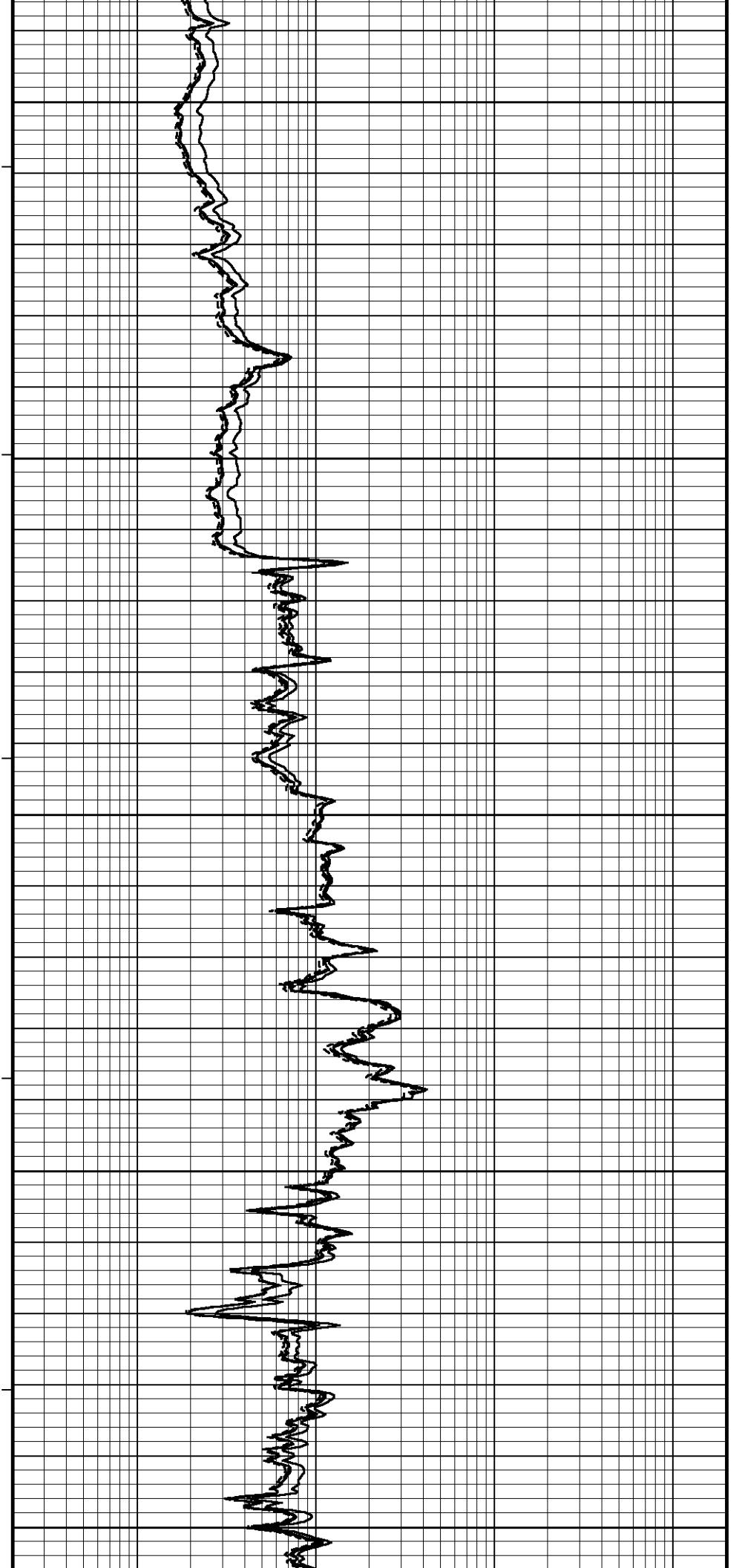
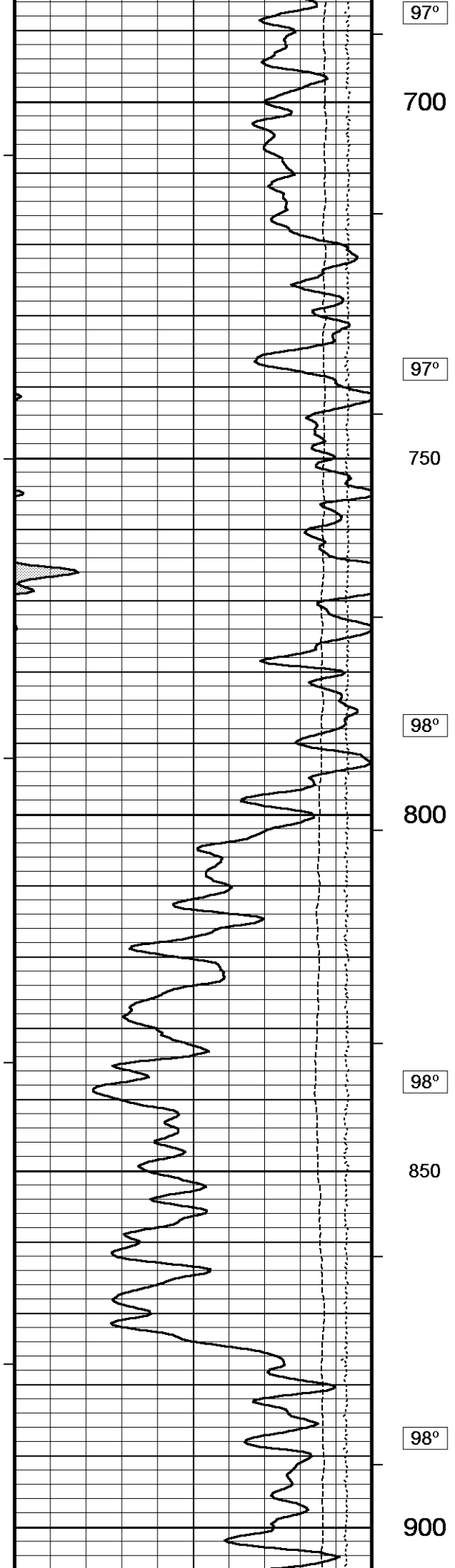


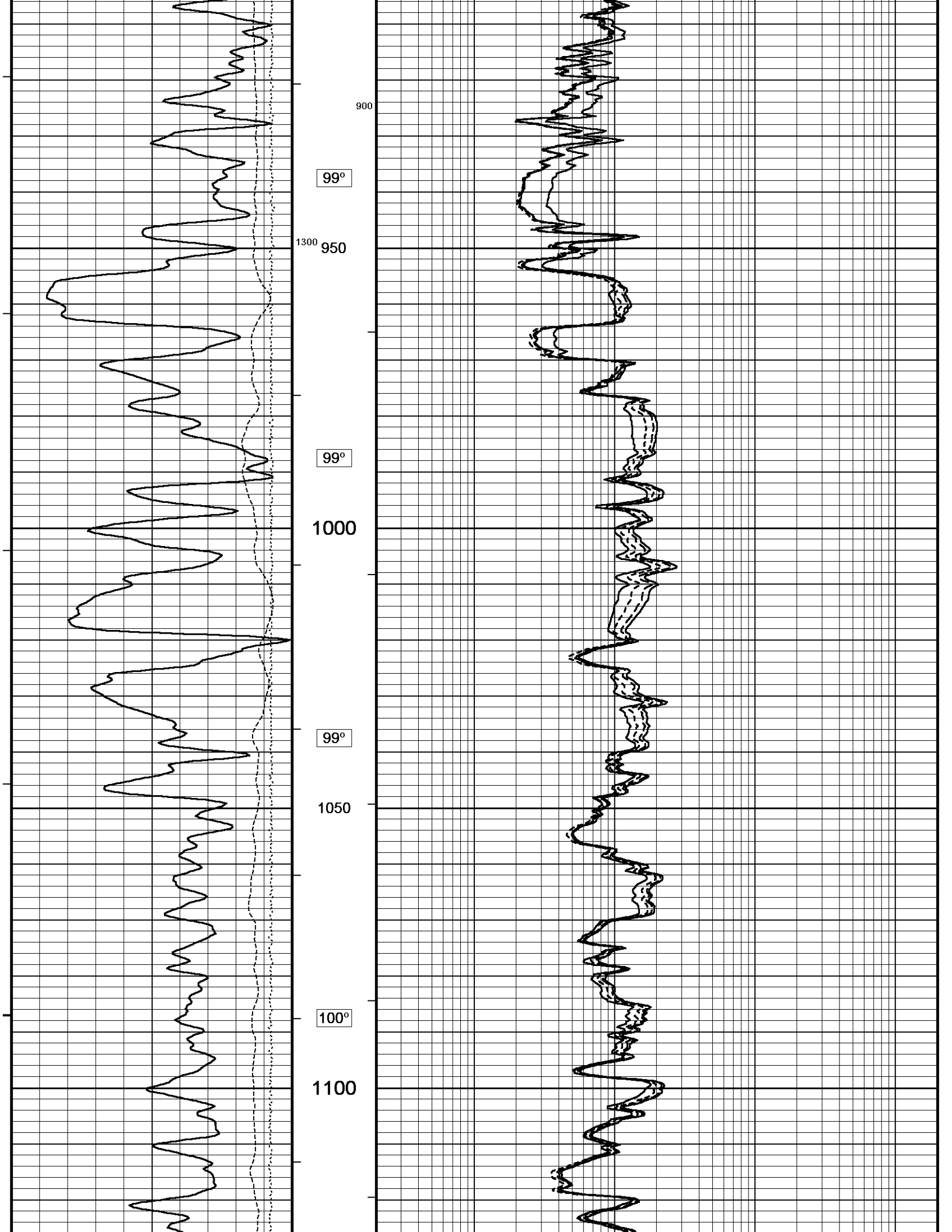
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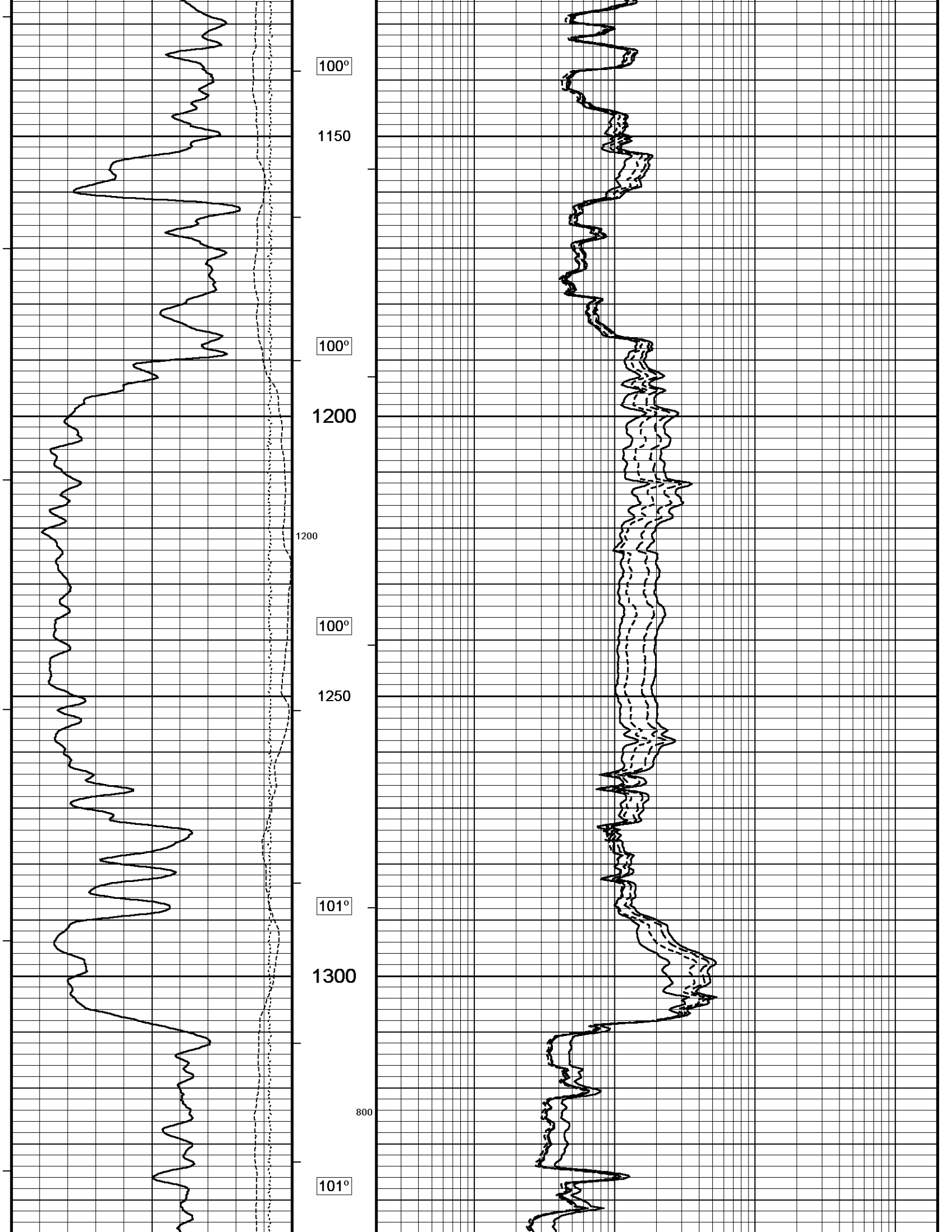


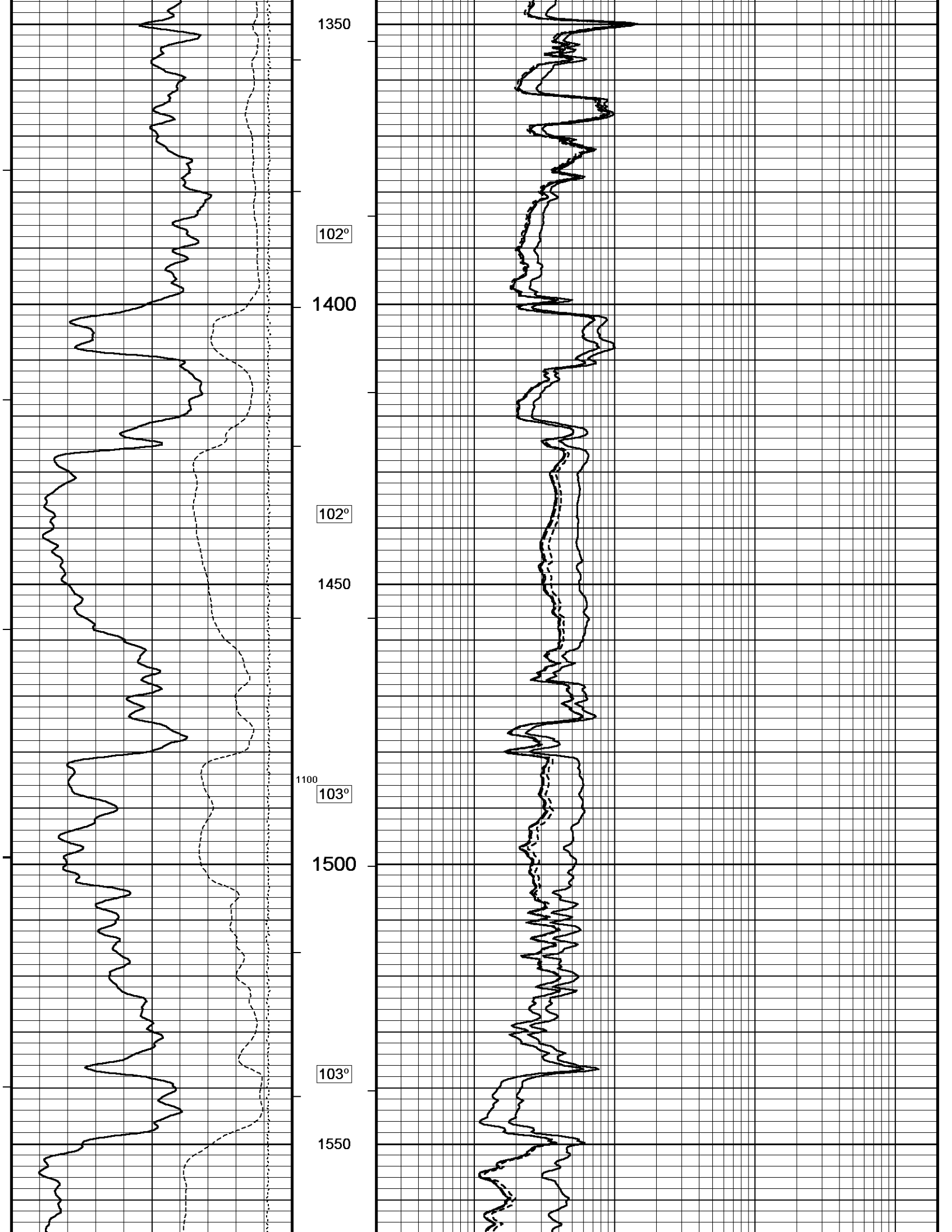


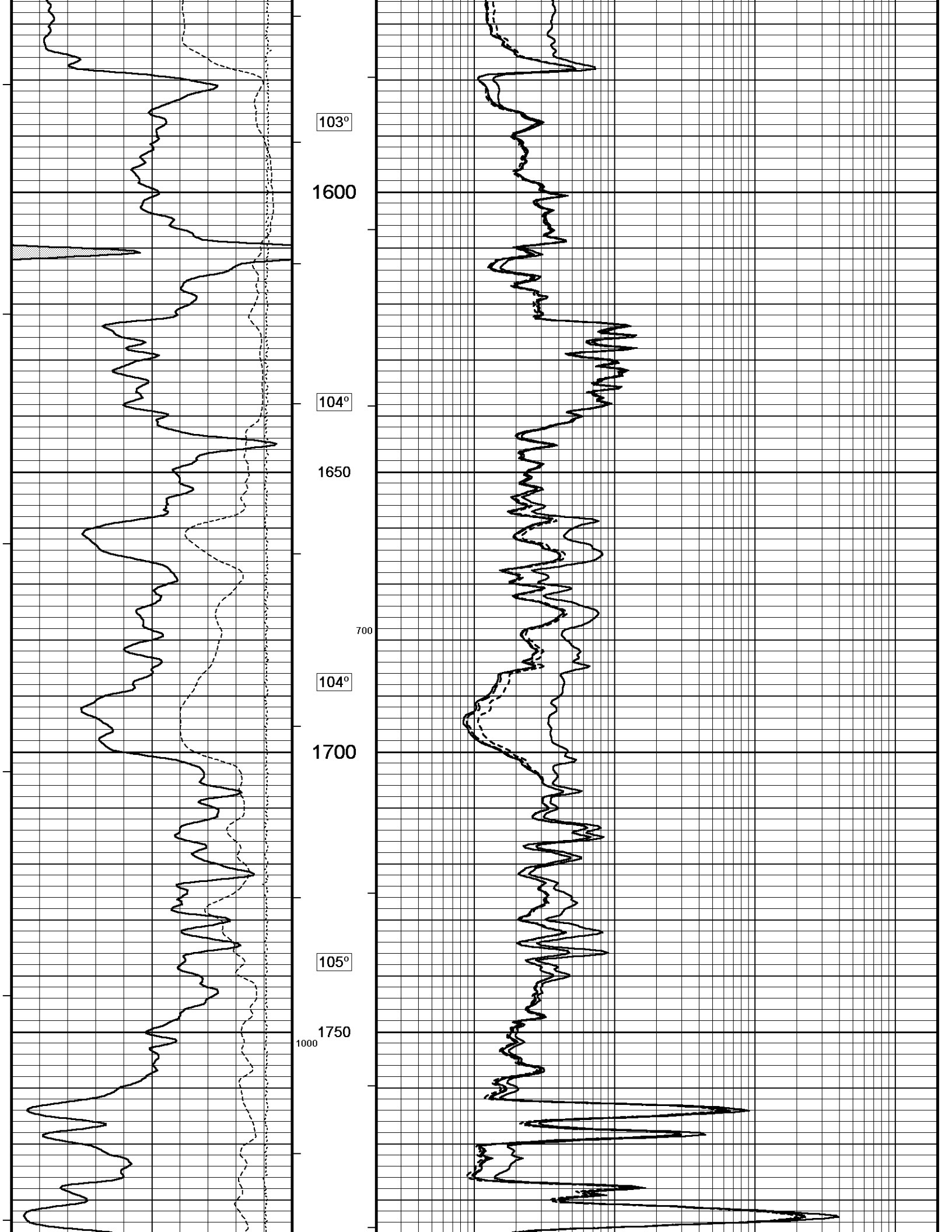


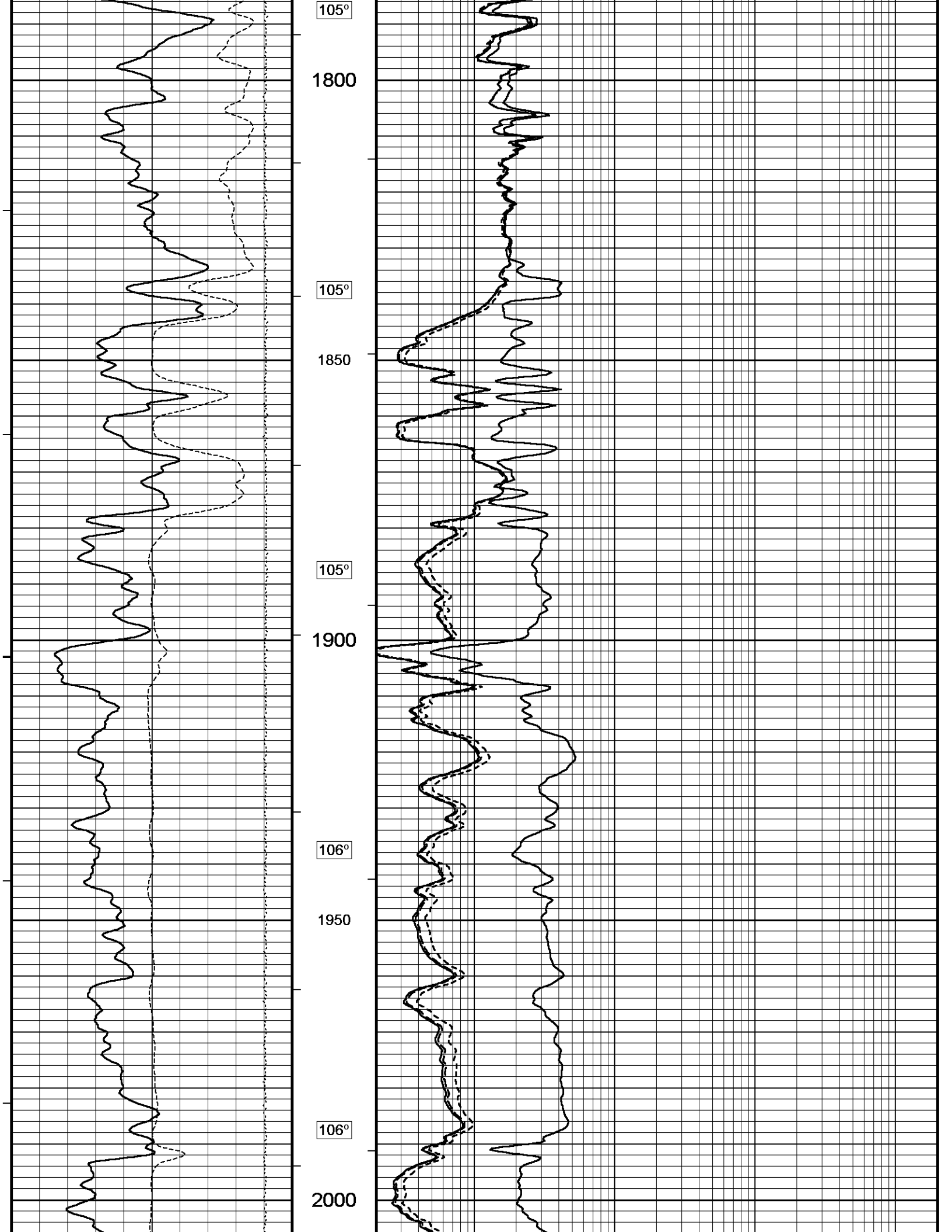


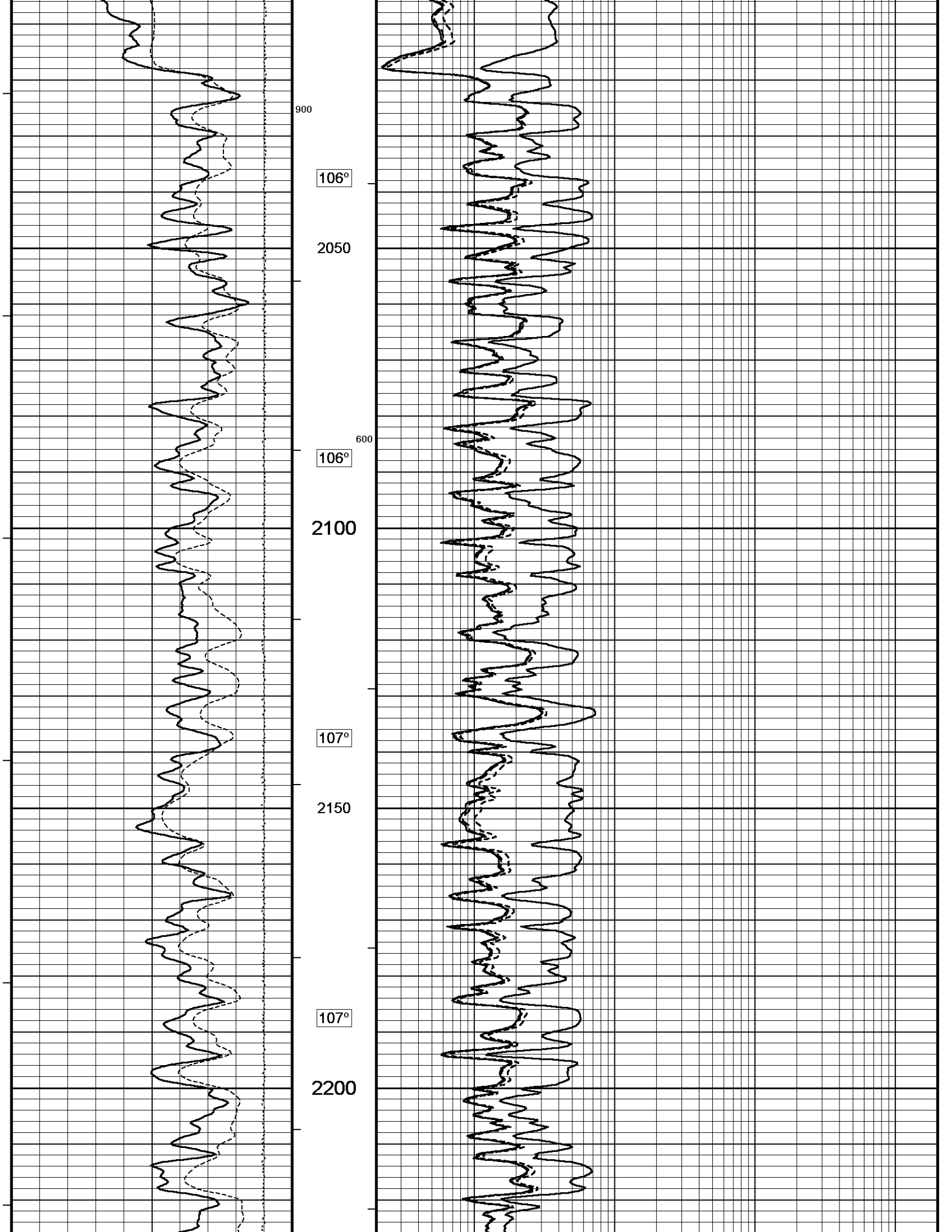


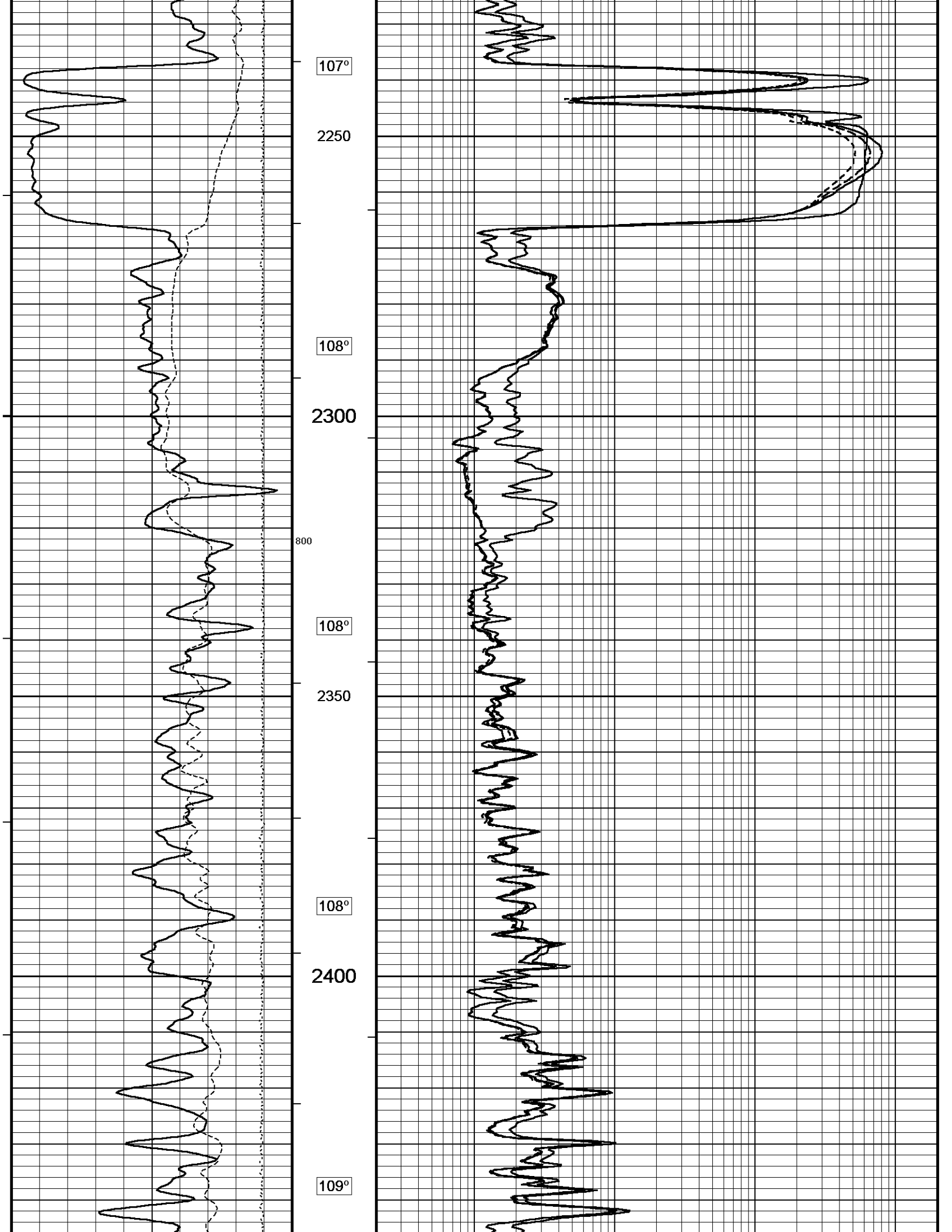


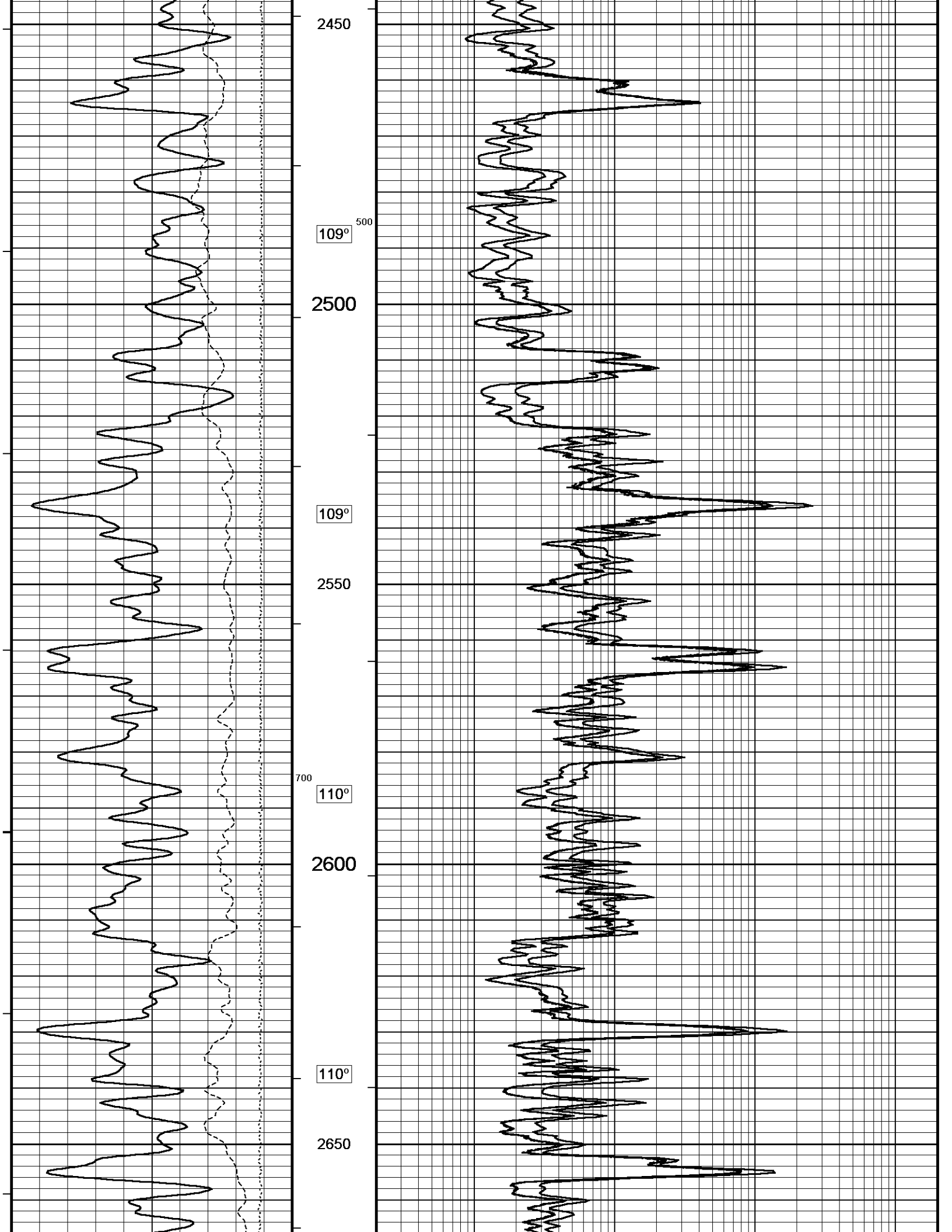


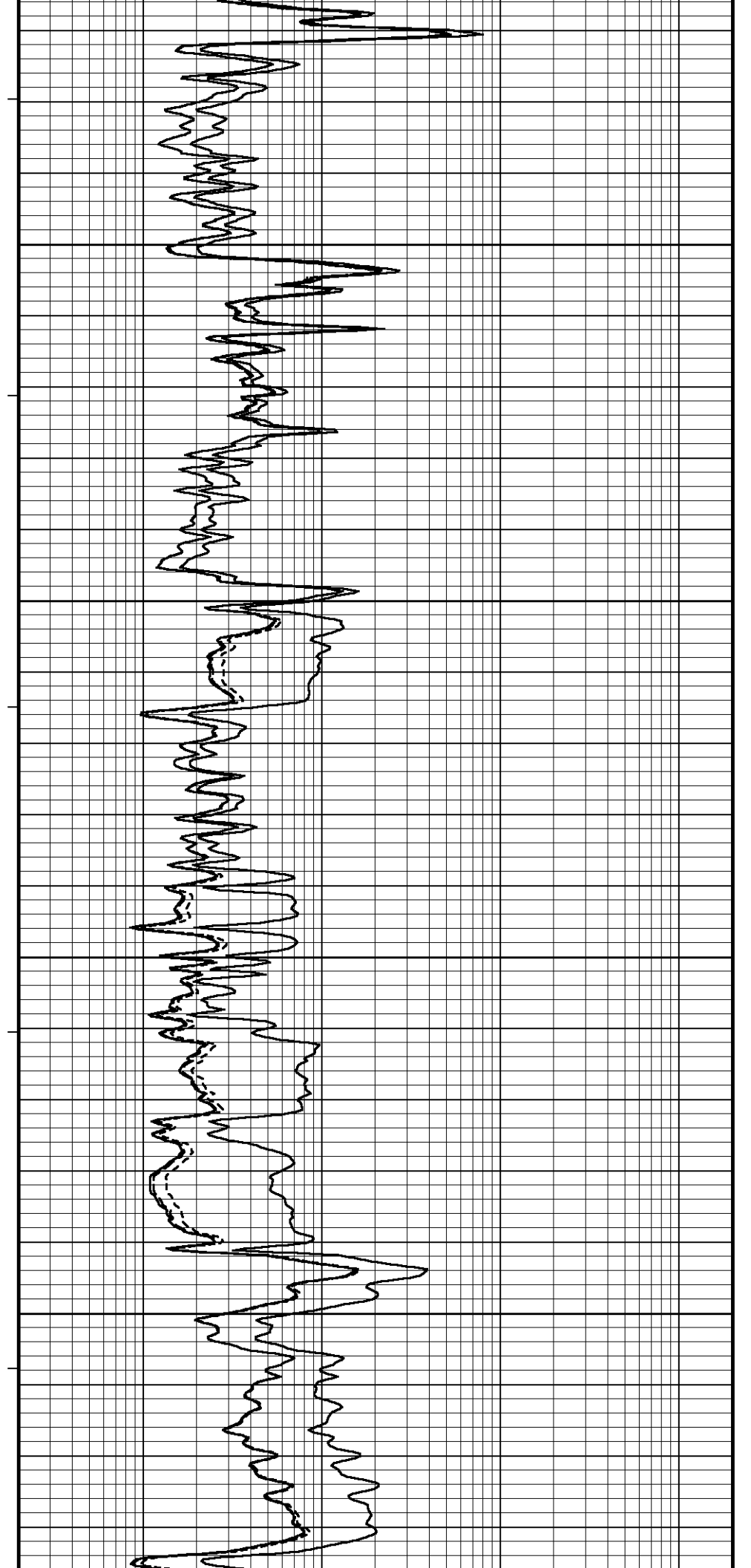
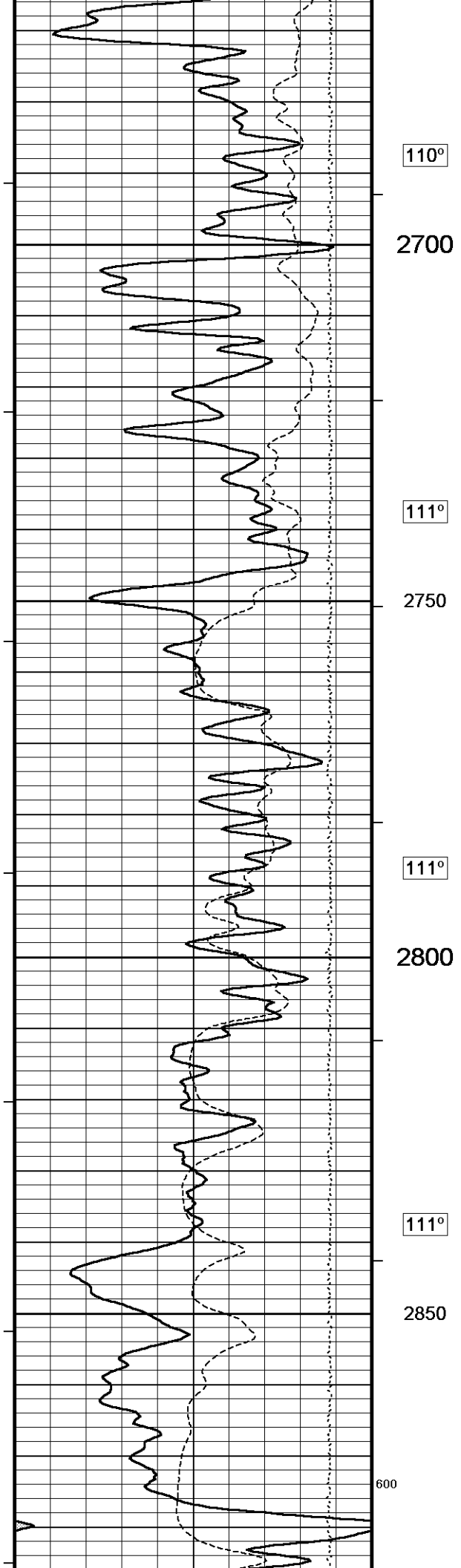


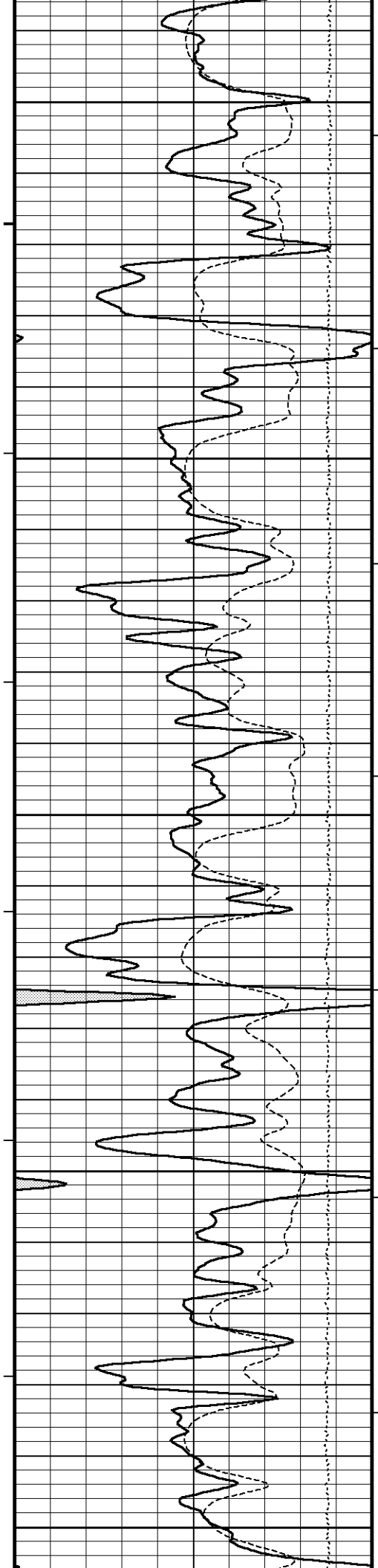












111°

2900

400

112°

2950

112°

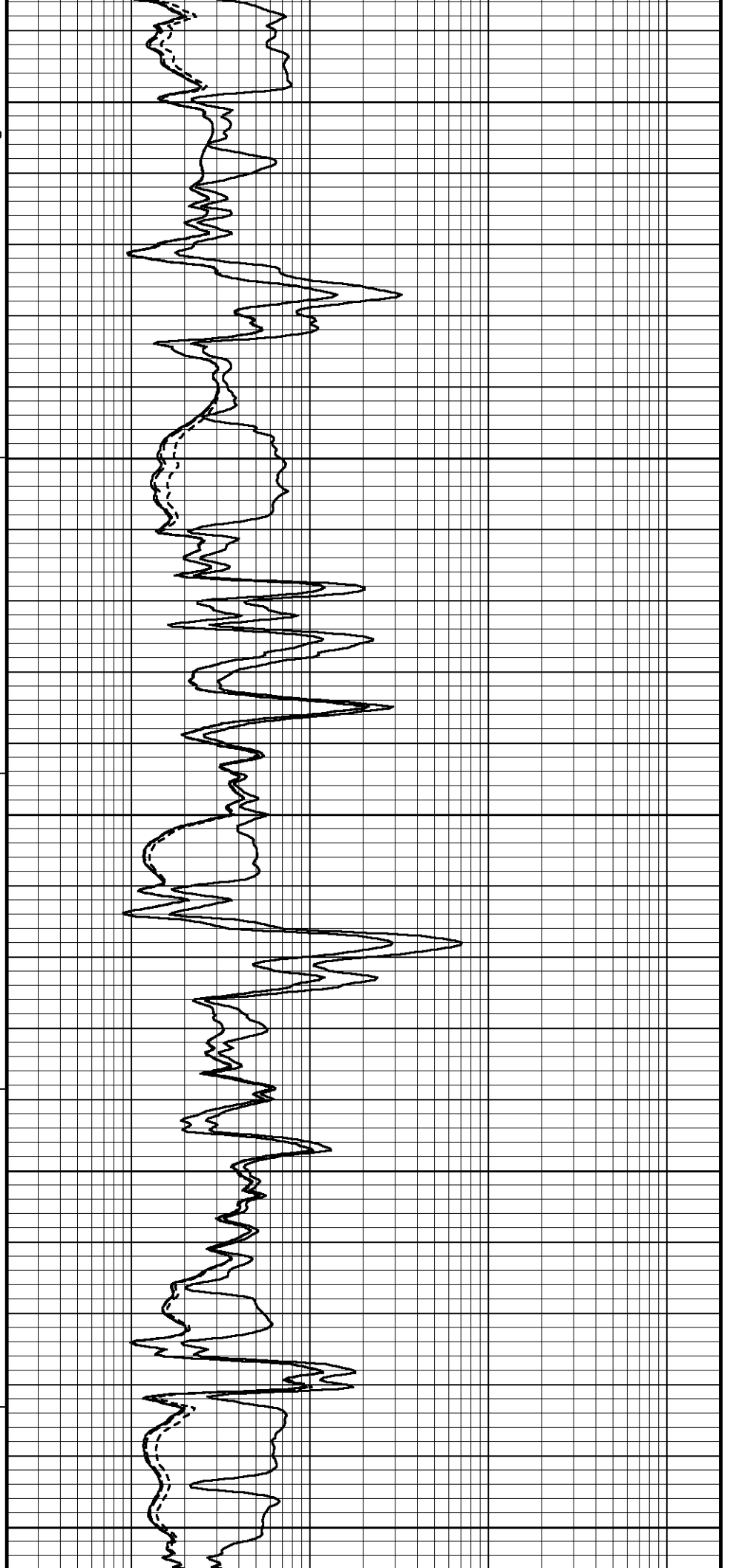
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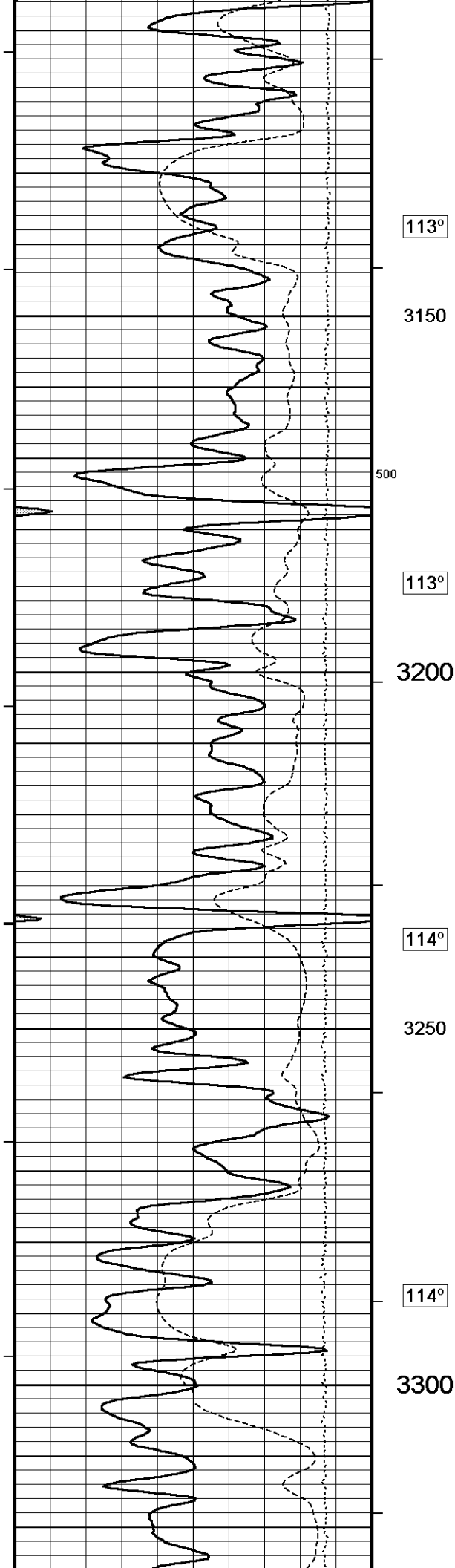
112°

3050

113°

3100





113°

3150

500

113°

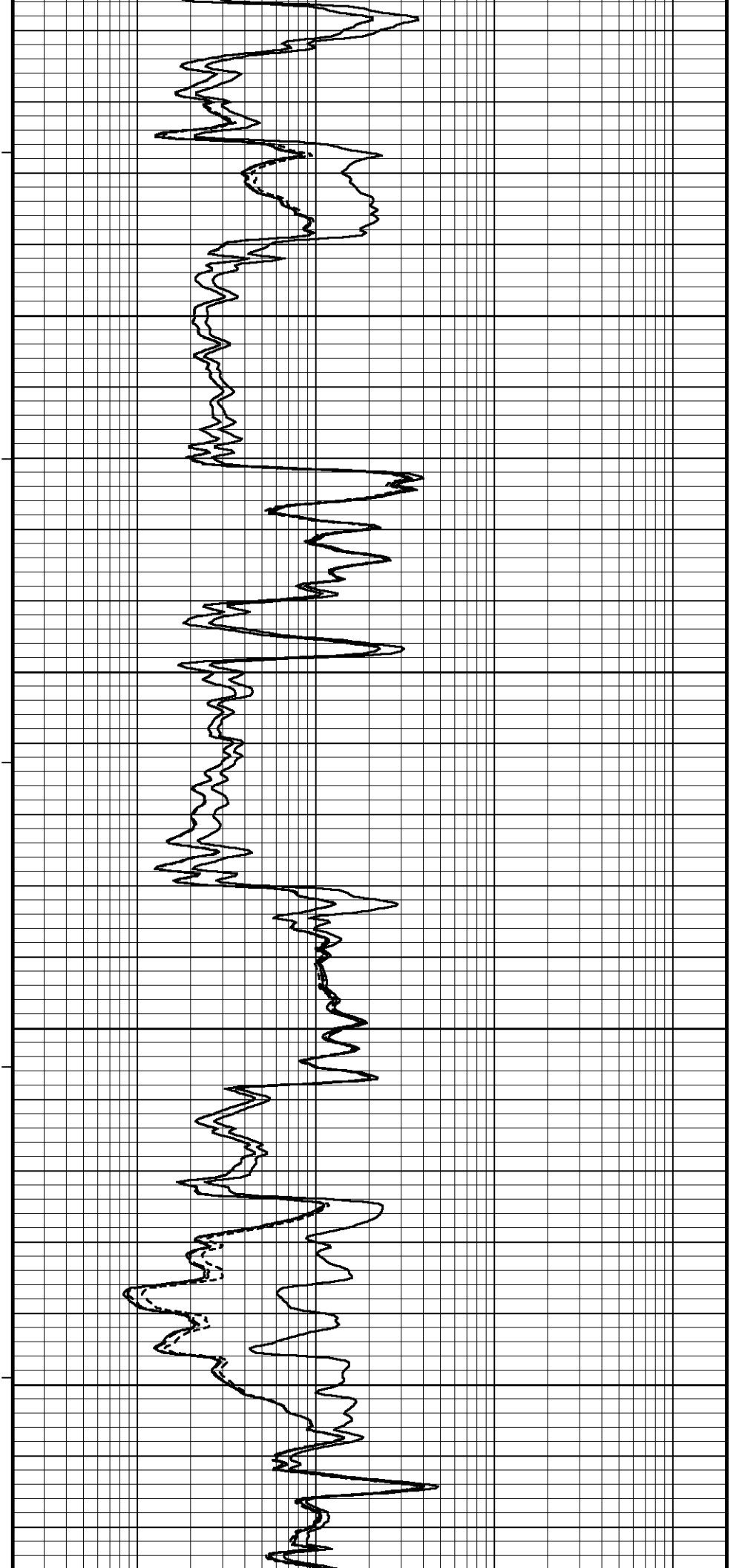
3200

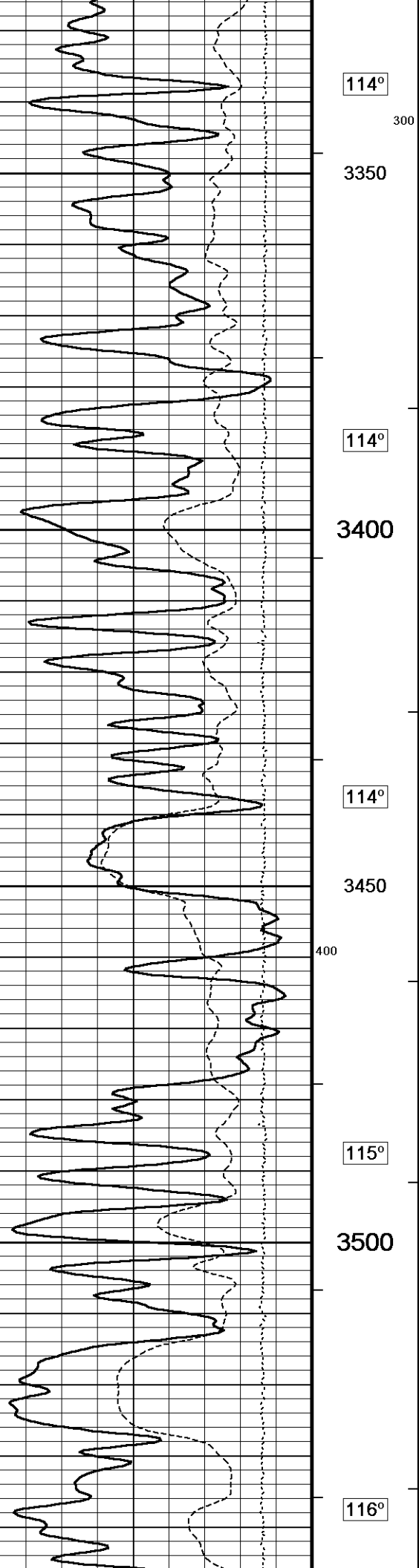
114°

3250

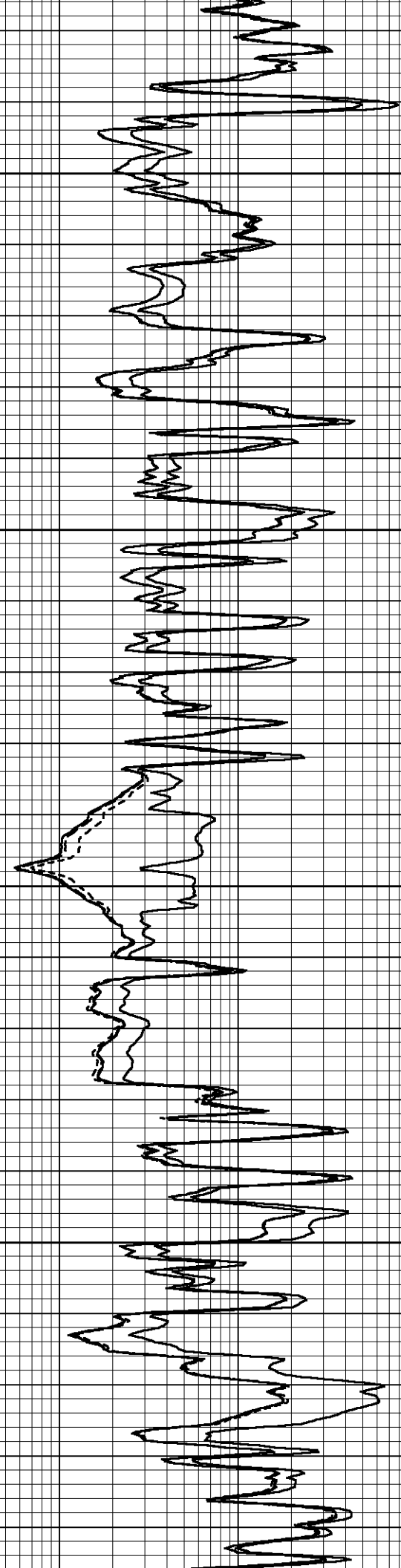
114°

3300

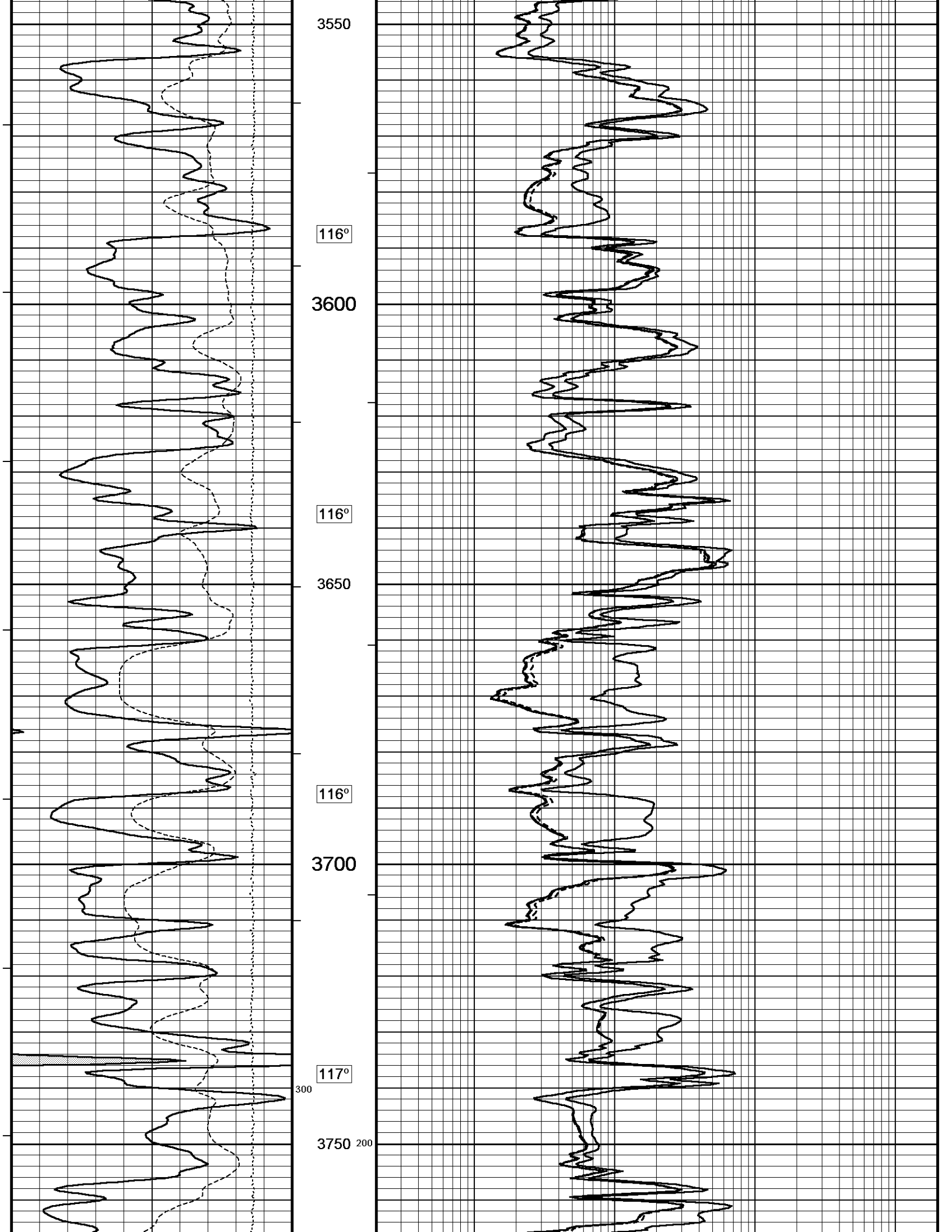


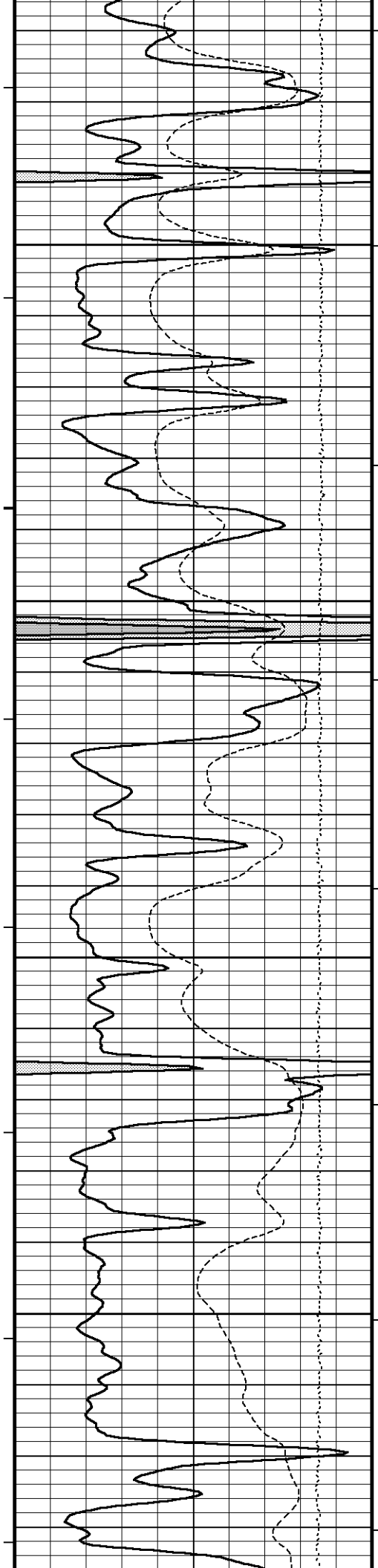


114°
300
3350
114°
3400
114°
3450
400
115°
3500
116°



300
3350
3400
3450
400
3500
116°





117°

3800

117°

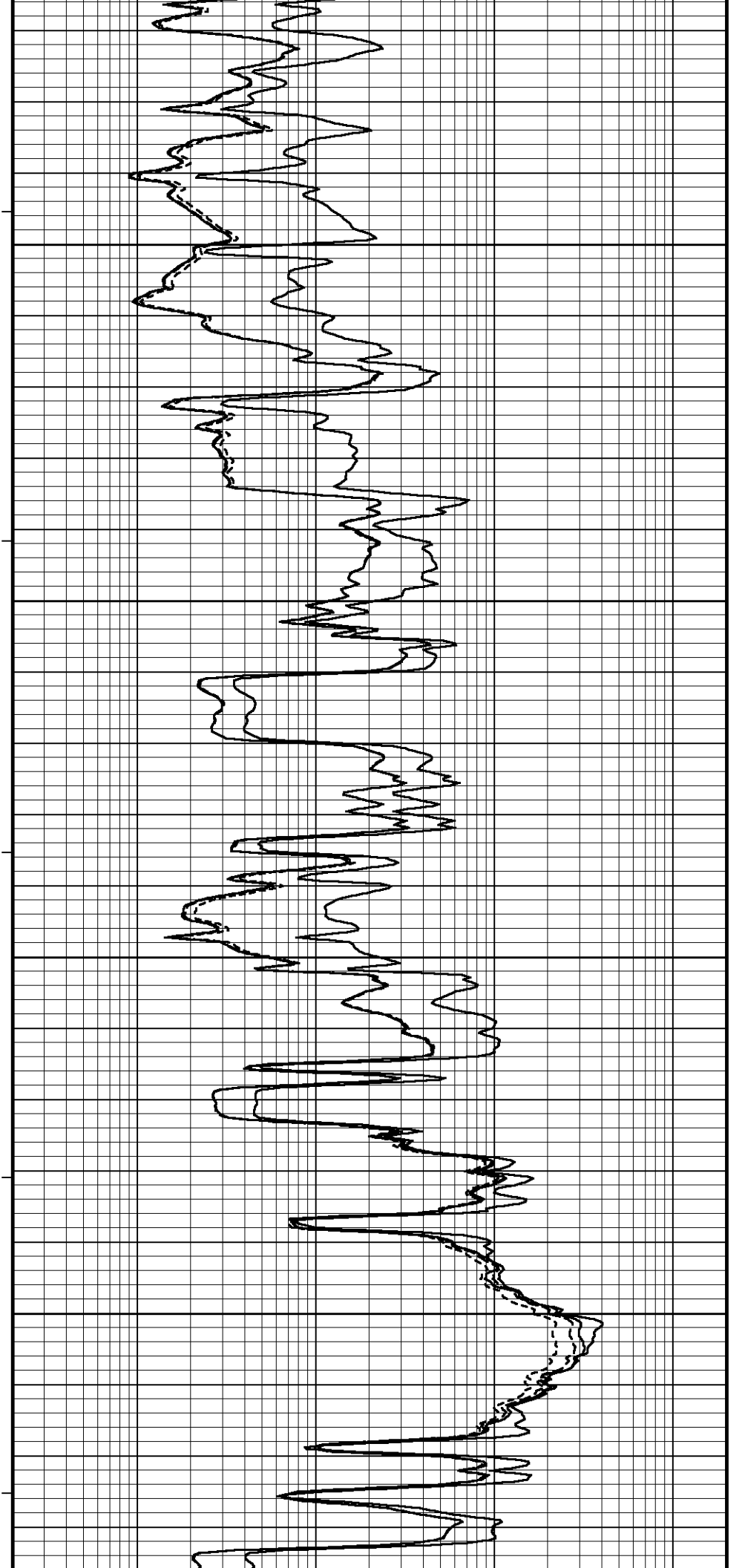
3850

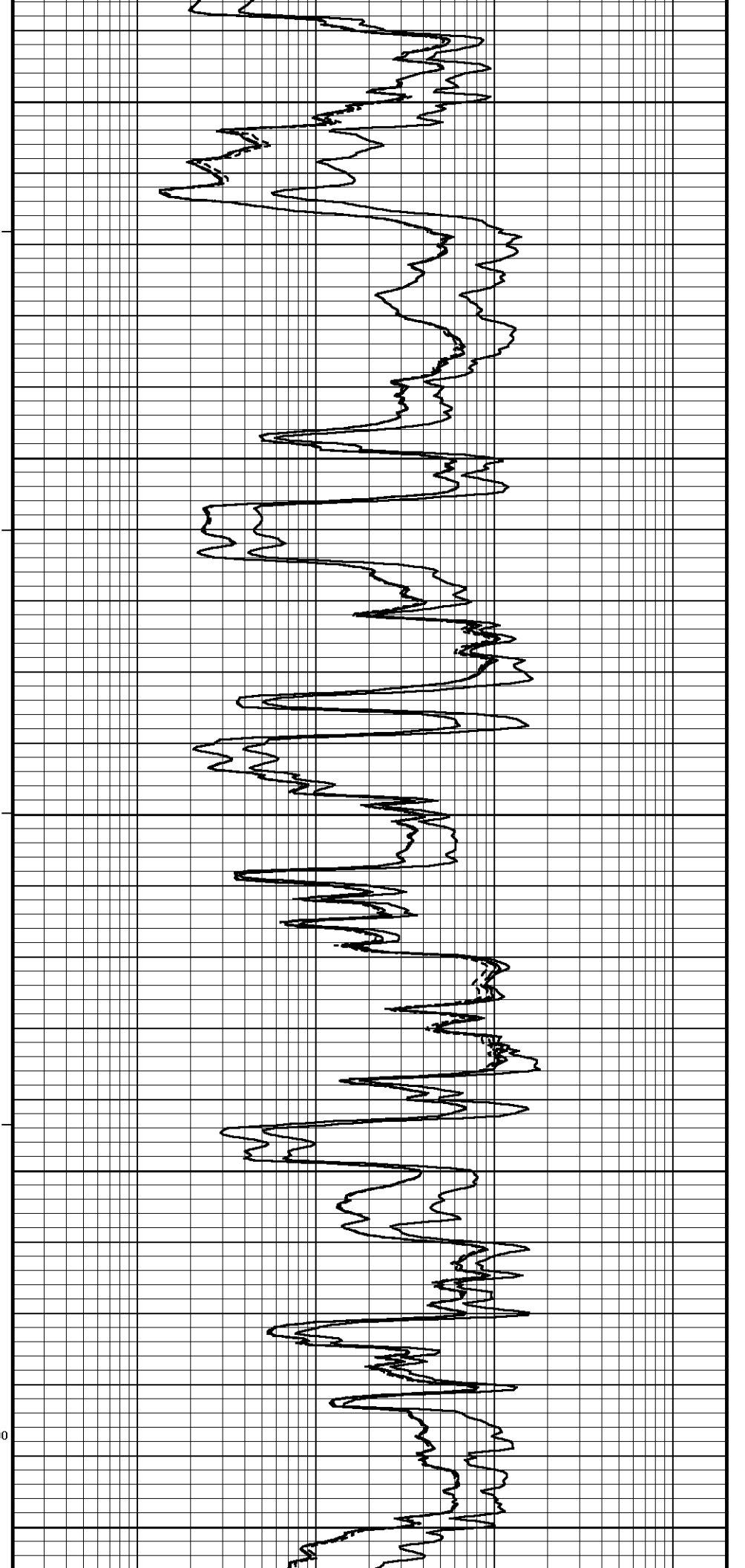
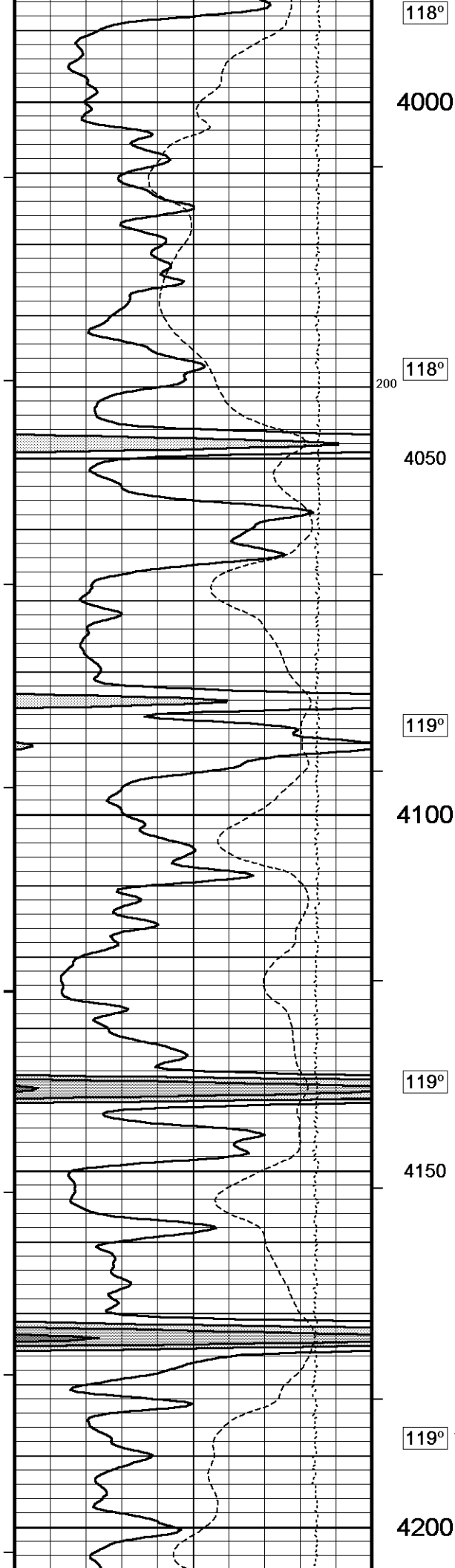
117°

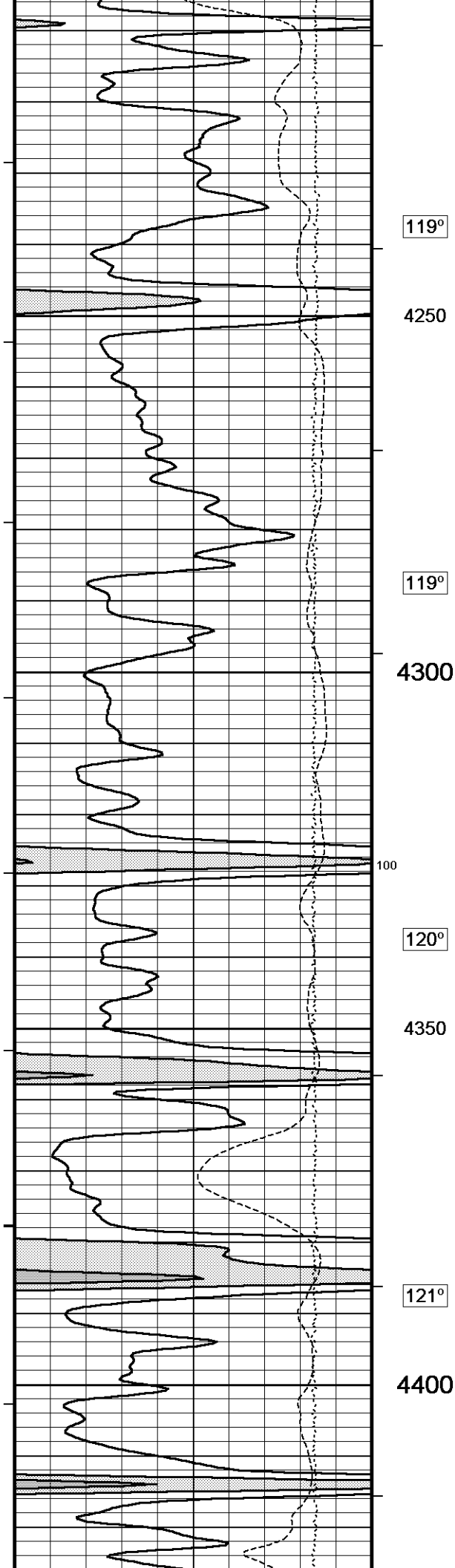
3900

117°

3950







119°

4250

119°

4300

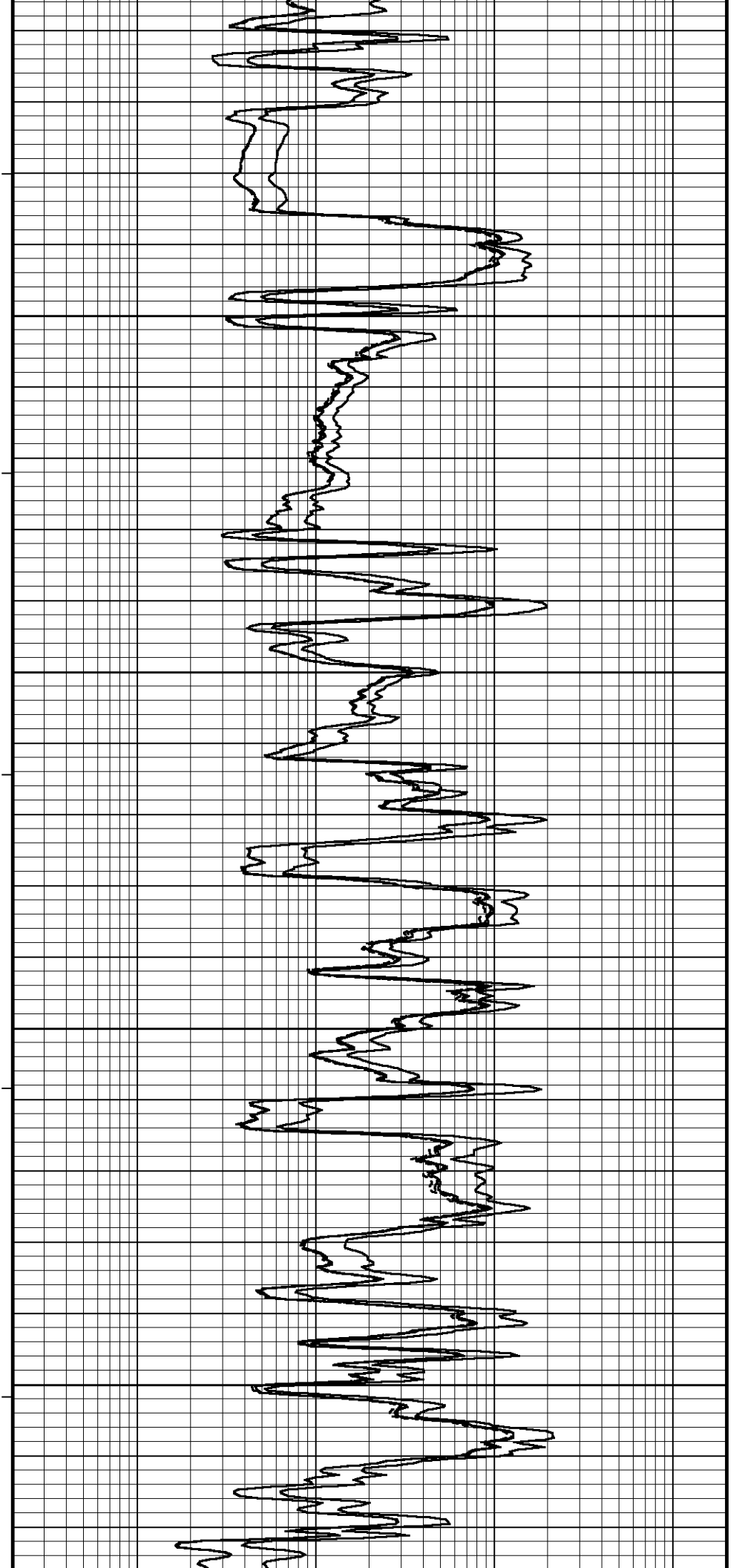
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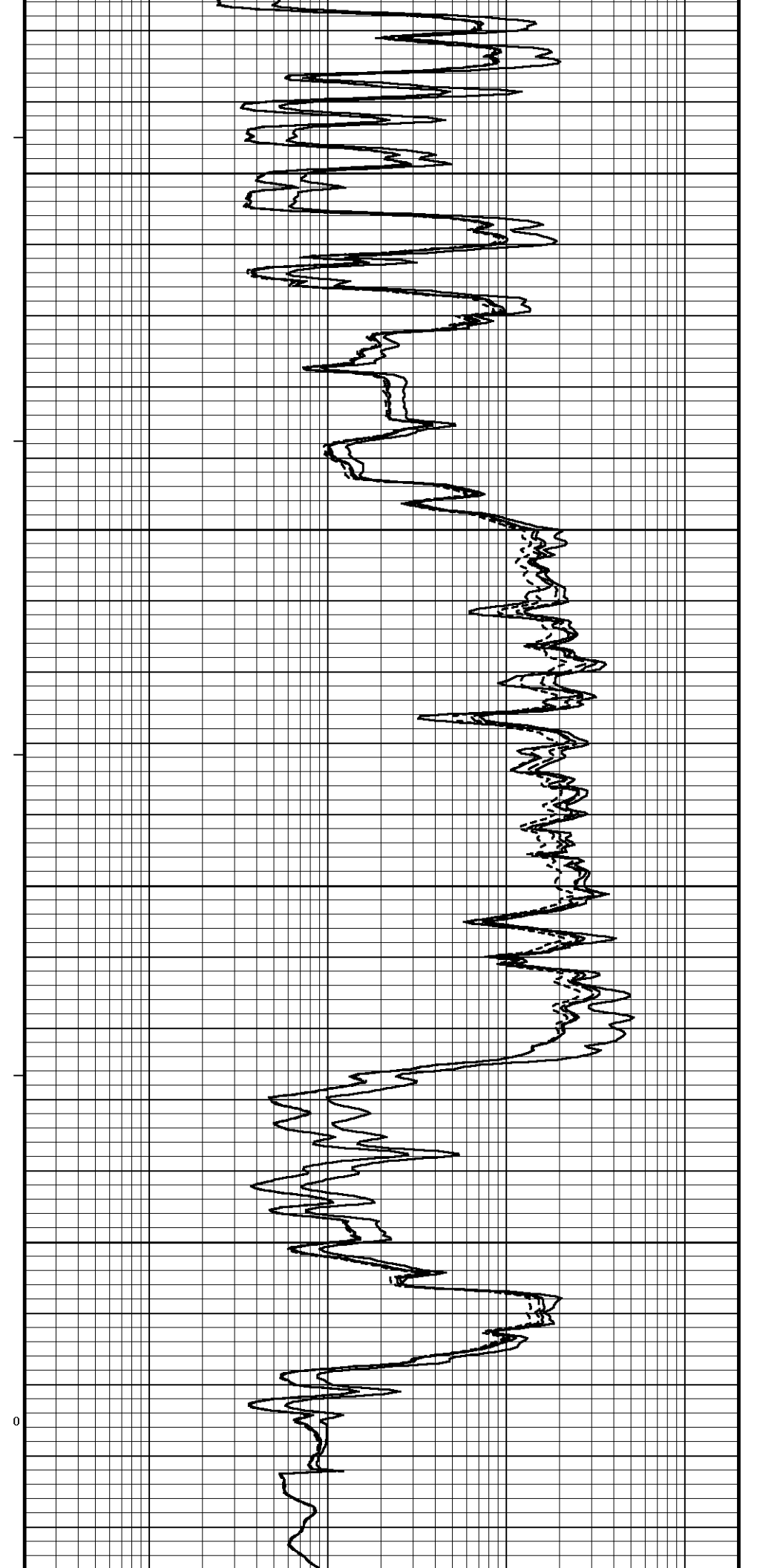
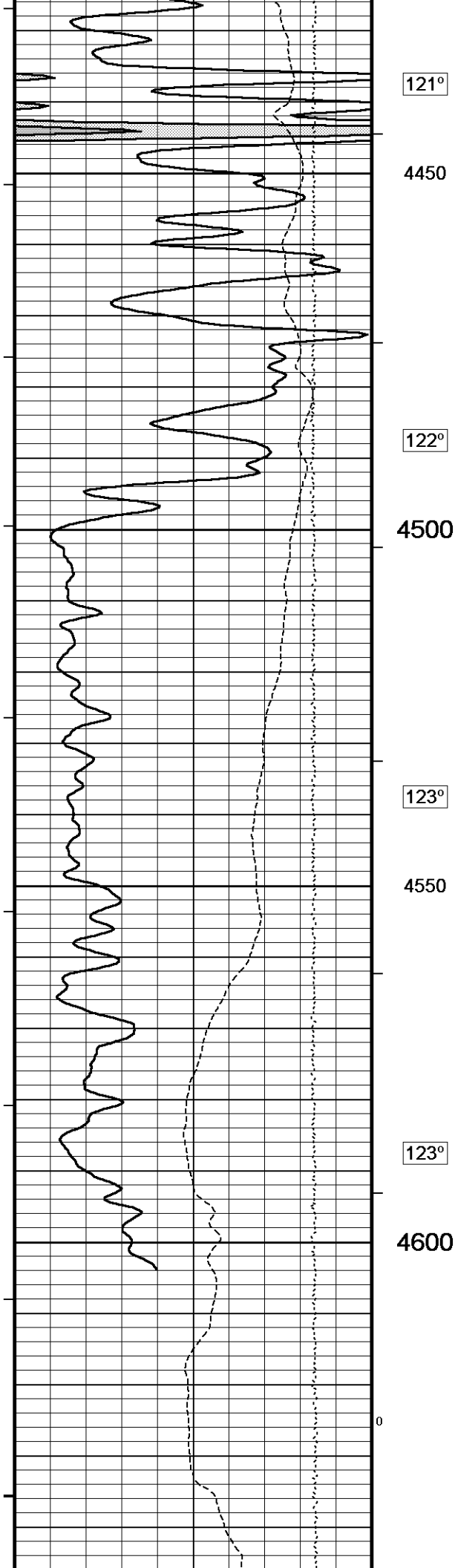
120°

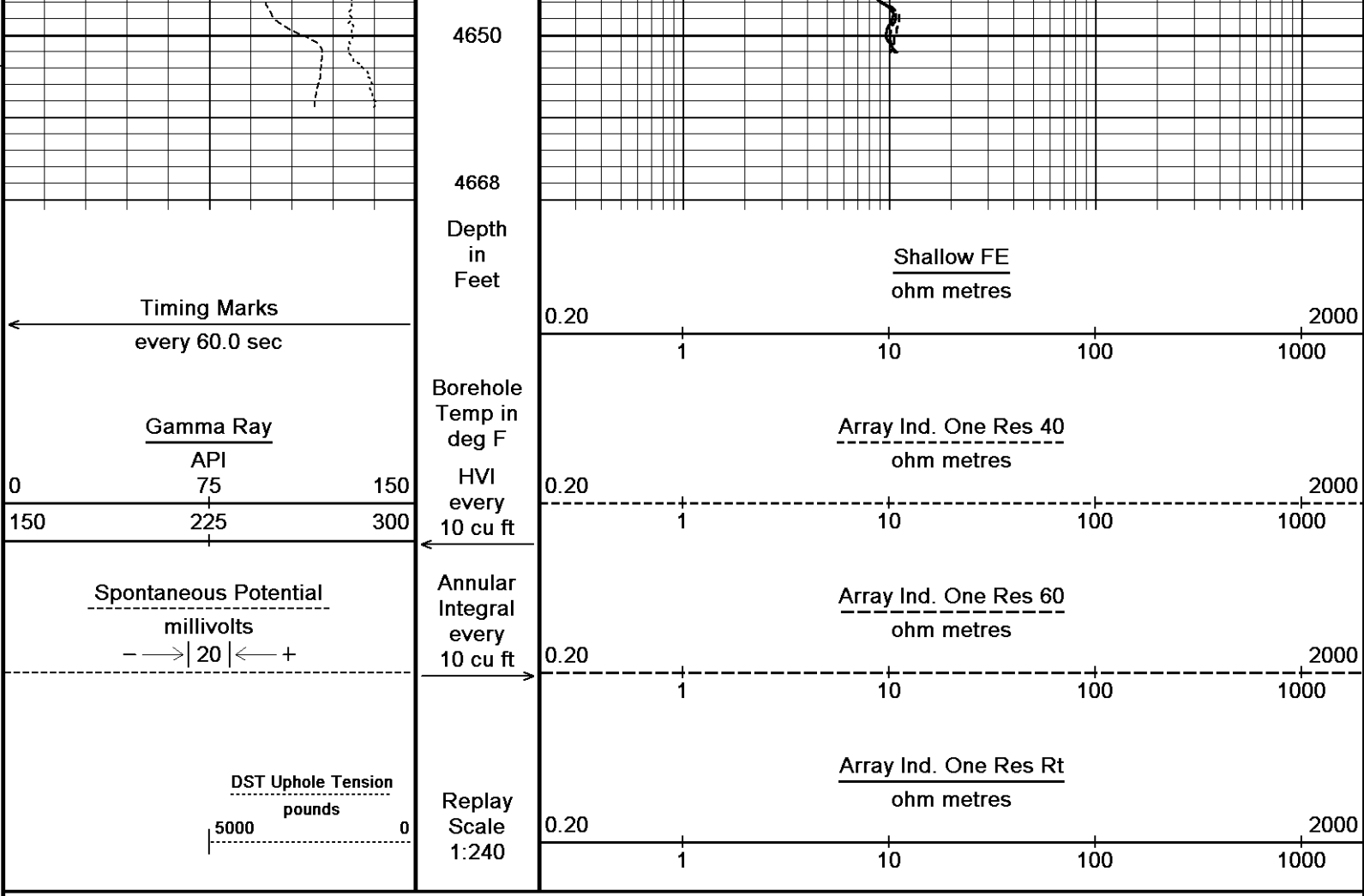
4350

121°

4400





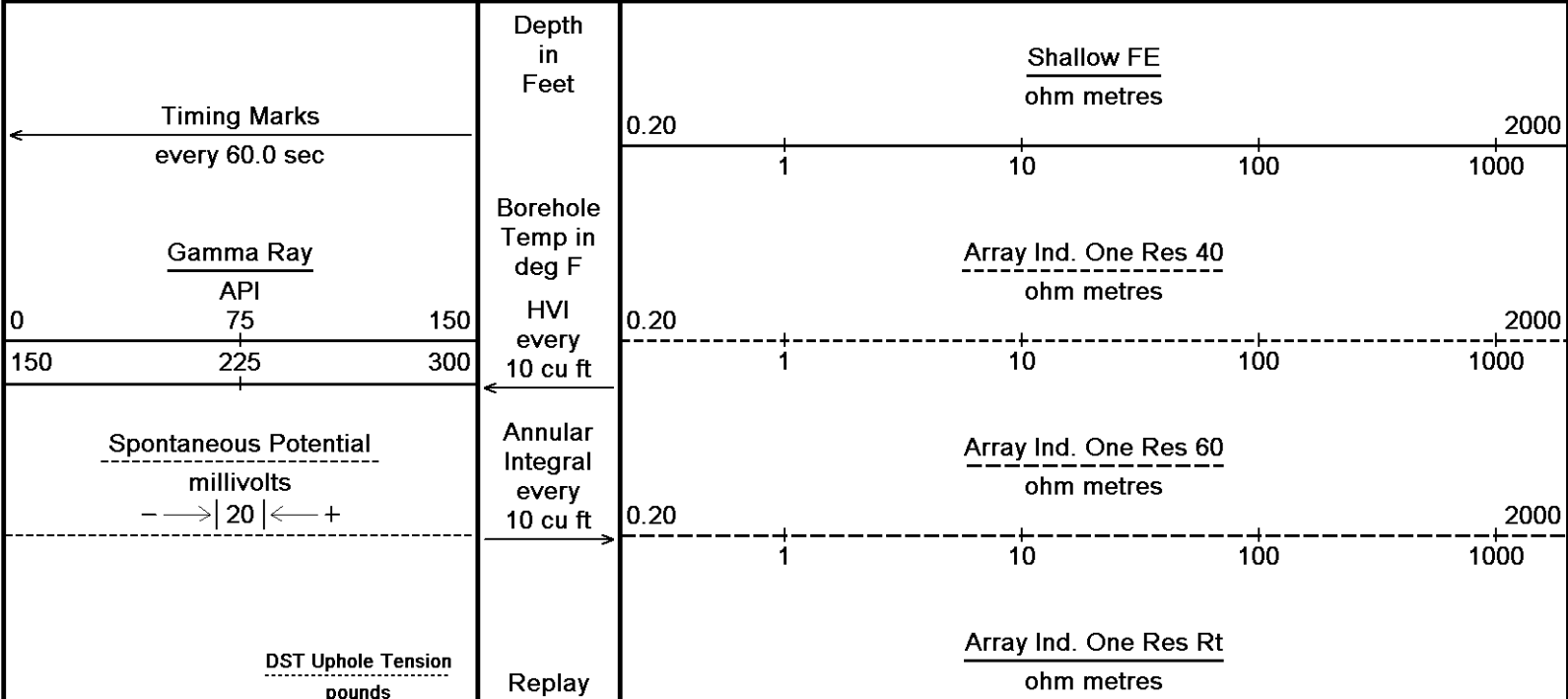


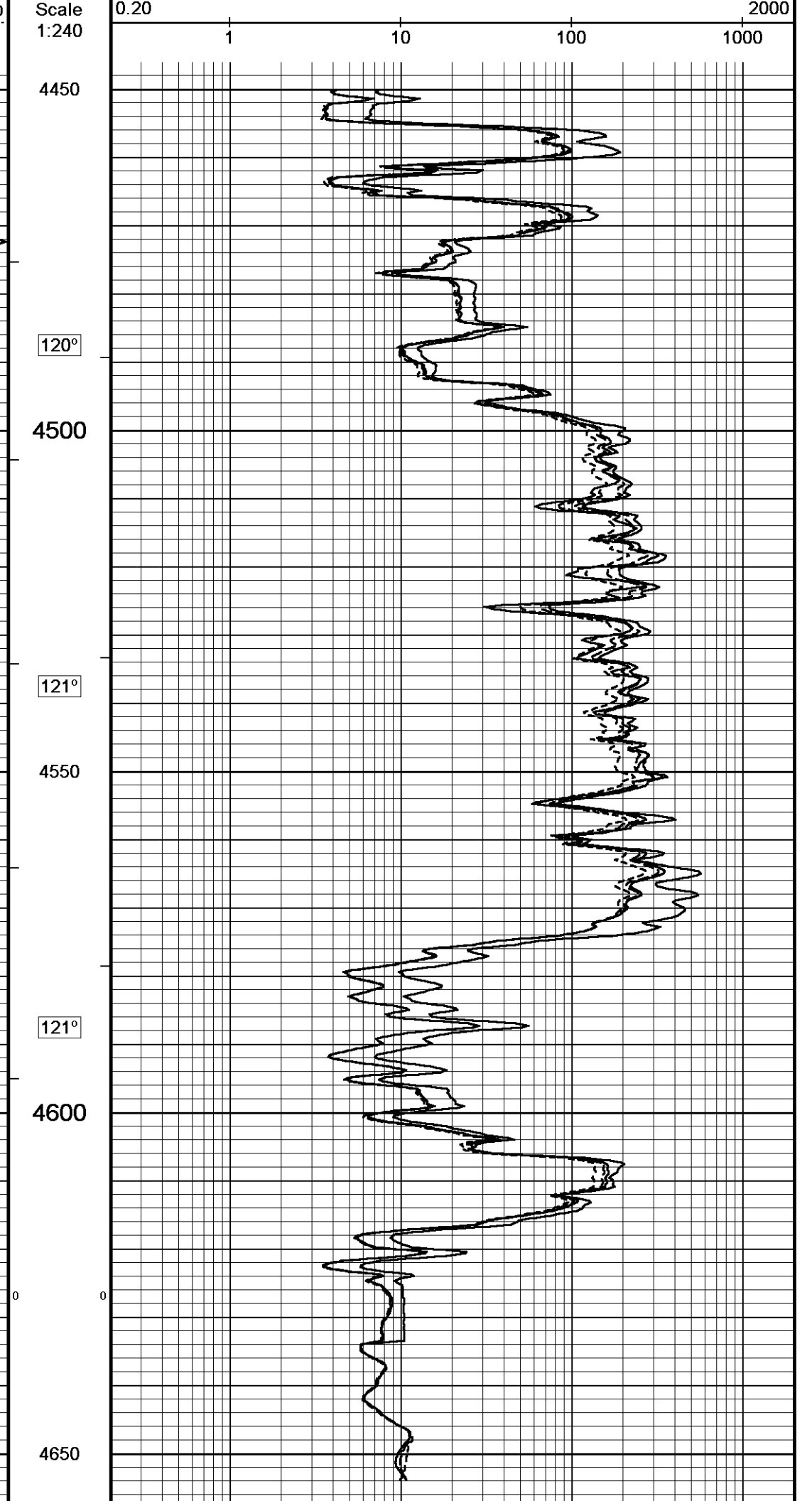
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-MAY-2013 15:09
 Filename: C:\Minimus 13.05.9583\Logs\O'Brien Res...\O'Brien Resources Prather Farms 22 #1_002.dta Recorded on 23-MAY-2013 12:27
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

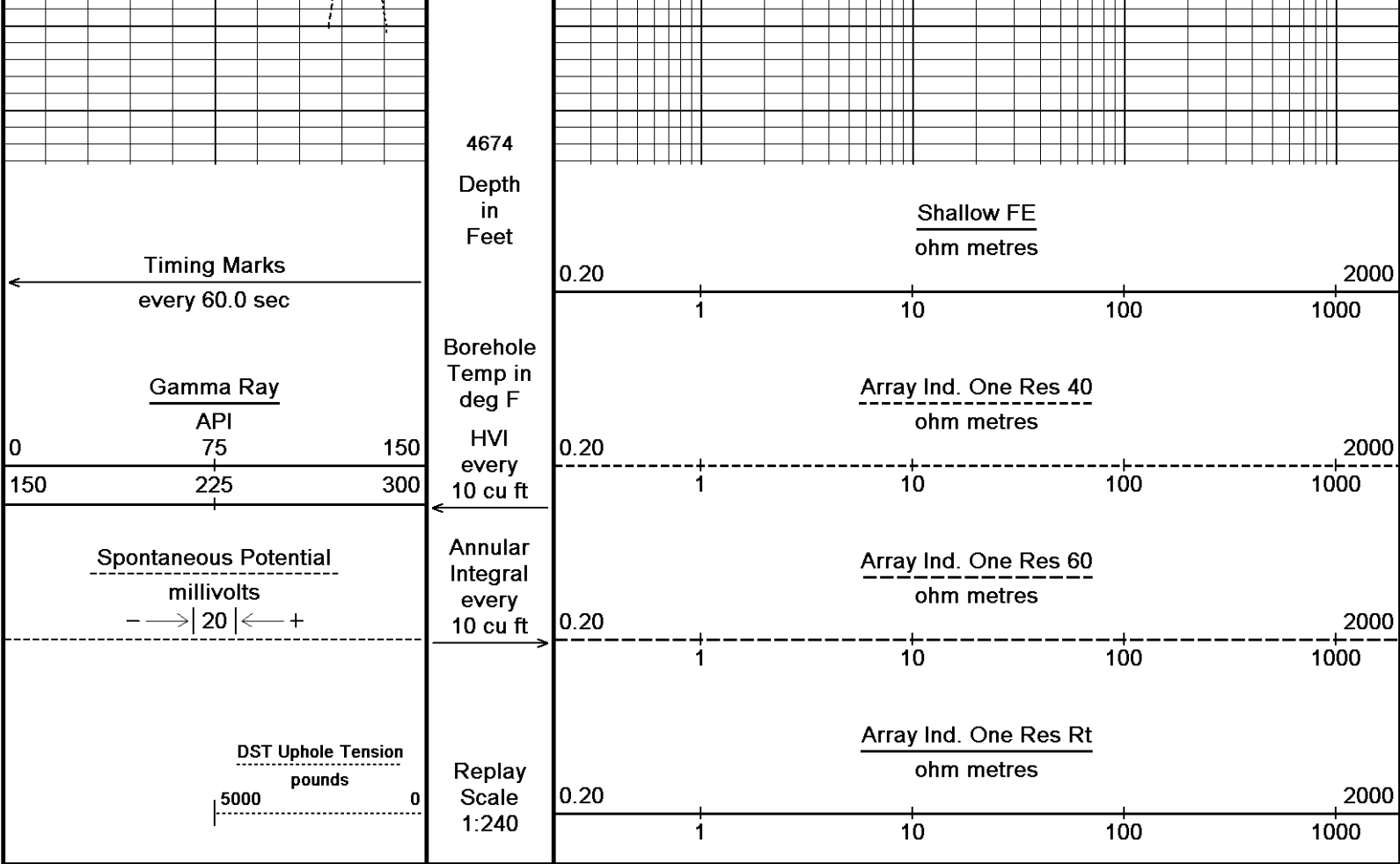
↑ 5 INCH MAIN ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-MAY-2013 15:09
 Filename: C:\Minimus 13.05.9583\Logs\O'Brien Res...\O'Brien Resources Prather Farms 22 #1_001.dta Recorded on 23-MAY-2013 11:55
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583







Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-MAY-2013 15:09
 Filename: C:\Minimus 13.05.9583\Log\O'Brien Res...\O'Brien Resources Prather Farms 22 #1_001.dta Recorded on 23-MAY-2013 11:55
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION

C:\Minimus 13.05.9583\Log\O'Brien Resources Prather Farms 2...\O'Brien Resources Prather Farms 22 #1_002 spooled section.dta

General Constants All 000 Last Edited on 23-MAY-2013,09:24

General Parameters		
Mud Resistivity	1.430	ohm-metres
Mud Resistivity Temperature	80.000	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	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Crossplot Porosity	
Resistivity used	Array Ind. Six Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	
SW/APOR Tool Source	0.000	

Down-hole Tension Calibration SMS 0 Field Calibration on 23-MAY-2013 11:11

Reading No	Measured	Calibrated (lbs)
1	14891.20	0.00
2	15693.49	471.00

Gamma Calibration MCG-B 34

Field Calibration on 21-MAY-2013 10:30

	Measured	Calibrated (API)
Background	72	49
Calibrator (Gross)	1130	774
Calibrator (Net)	1058	725

Gamma Constants MCG-B 34

Last Edited on 21-MAY-2013,10:05

Gamma Calibrator Number	GRC38	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

SP Calibration MCG-B 34

Field Calibration on 17-APR-2013 14:33

	Measured	Calibrated (mV)
Reference 1	106.4	100.0
Reference 2	-95.3	-100.0

High Resolution Temperature Calibration MCG-B 34

Field Calibration on 19-APR-2013,18:21

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-B 34

Last Edited on 24-APR-2013,09:25

Pre-filter Length	11
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Micro Normal and Micro Inverse Calibration MML-A 16

Base Calibration on 16-MAY-2013 12:07

Field Check on 21-MAY-2013 10:01

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	60.2	5.0	25.0
Micro Inverse	15.6	78.4	5.0	25.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	62.9	62.9
Micro Inverse	48.2	48.2

Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 23-MAY-2013,09:23

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	1.0000		
Micro Inverse K Factor	1.0000		
Standoff Offset	N/A	inches	

Caliper Calibration MML-A 16

Base Calibration on 16-MAY-2013 11:56

Field Calibration on 21-MAY-2013 10:04

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14258	5.98
2	17442	7.97
3	20671	9.86
4	24432	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.07	5.98

Neutron Calibration MDN-A.B 65

Base Calibration on 22-MAY-2013 14:17

Field Check on 22-MAY-2013 14:36

Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3104	96	3714	110
	32.242		33.764	

Field Calibrator at Base	Calibrated (cps)
	1657 2415
Ratio	0.686
Field Check	Calibrated (cps)
	1660 2408
Ratio	0.689

Neutron Constants MDN-A.B 65

Last Edited on 23-MAY-2013,10:13

Neutron Source Id	PN-521	
Neutron Jig Number	5824NE	
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	None	
Formation Pressure	N/A	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	

FE Calibration MFE-B.J 352

Base Calibration on 16-MAY-2013 15:06
Field Check on 21-MAY-2013 09:39

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.9	126.8
Base Check		281.3
Field Check		281.5

FE Constants MFE-B.J 352

Last Edited on 23-MAY-2013,09:23

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	0.5	inches

Sonic Constants MSS-C.K 330

Last Edited on 26-APR-2013,15:00

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	0.00	micro-sec
MX3FT	1500.00	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft
Sonde Mode	Compensated	
Hole Type	Open Hole	
Sonde Parameters		
	Measured	Calibrated
Offset	0.0000	0.0000

Free Pipe

0.0000

Peak Amplitude Source

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A	Discriminator (mV)	Depth (ft)
Start Time (micro-sec)	End Time (micro-sec)		
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
0.00	0.00	0.00	0.00

Full Waveform Parameters

Use 3' Waveform to derive TR	No		
Use 4' Waveform to derive TR	No		
Use 5' Waveform to derive TR	No		
Use 6' Waveform to derive TR	No		
3' Waveform Discriminator Level	0.30	mV	
4' Waveform Discriminator Level	0.30	mV	
5' Waveform Discriminator Level	0.15	mV	
6' Waveform Discriminator Level	0.15	mV	
3' Waveform Filter			
4' Waveform Filter			
5' Waveform Filter			
6' Waveform Filter			
Semblance Level	0.50		
Semblance Window Width	120.00	micro-sec	
Sonic 1 Despiker	100.00	micro-sec/ft	
Sonic 2 Despiker	100.00	micro-sec/ft	

High Resolution Temperature Calibration MAI-A.A 45

Field Calibration on 26-APR-2013,08:51

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MAI-A.A 45

Last Edited on 05-MAY-2013,08:10

Pre-filter Length 11

Induction Calibration MAI-A.A 45

Base Calibration on 21-MAY-2013,16:47
Field Check on 21-MAY-2013 17:20

Base Calibration

Test Loop Calibration Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	14.4	472.6	9.3	966.2
2	5.7	374.0	7.6	821.4
3	3.4	261.2	5.2	566.0
4	2.5	133.9	2.6	279.2

Array Temperature 0.0 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	20.1	3853.8	20.1	3853.8
2	32.2	3630.4	32.2	3630.3
3	28.9	3050.0	28.9	3050.0
4	18.4	2079.4	18.4	2079.4
Deep	16.2	1911.5	16.3	1911.4
Medium	42.7	4061.4	42.7	4061.3
Shallow	50.3	5484.8	50.3	5484.8

Array Temperature 87.9 88.4 Deg F

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	8.0000		
Stand-off Fin Angle	45.00	degrees	
Stand-off Fin Width	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	Borehole Temp. Unfilt.		
Squasher Start	0.0020	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		

Caliper Calibration MPD-B 31

Base Calibration on 19-MAY-2013 17:48
Field Calibration on 21-MAY-2013 09:59

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	17088	3.99
2	25888	5.98
3	34607	7.97
4	42944	9.86
5	52301	11.92
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	6.04	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 19-MAY-2013 18:09
Field Check on 21-MAY-2013 09:56

Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
	Near	Far	Near	Far	
Reference 1	45338	23124	59556	30836	
Reference 2	18546	1915	24941	2541	

Field Check at Base	677.6	838.3
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Field Check	676.5	836.6
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PE Calibration		
Base Calibration	Measured	Calibrated

	WS	WH	Ratio	Ratio
Background	125	601		
Reference 1	19261	45226	0.429	0.371
Reference 2	5568	18464	0.305	0.272

Field Check at Base	125.4	601.0
Field Check	125.6	598.7

Density Constants MPD-B 31

Last Edited on 21-MAY-2013,09:39

Density Source Id	254	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.00	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 (ft)
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	0.00

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Logs\O'Brien Resources Prather Farms 2... \O'Brien Resources Prather Farms 22 #1_002 spooled section.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

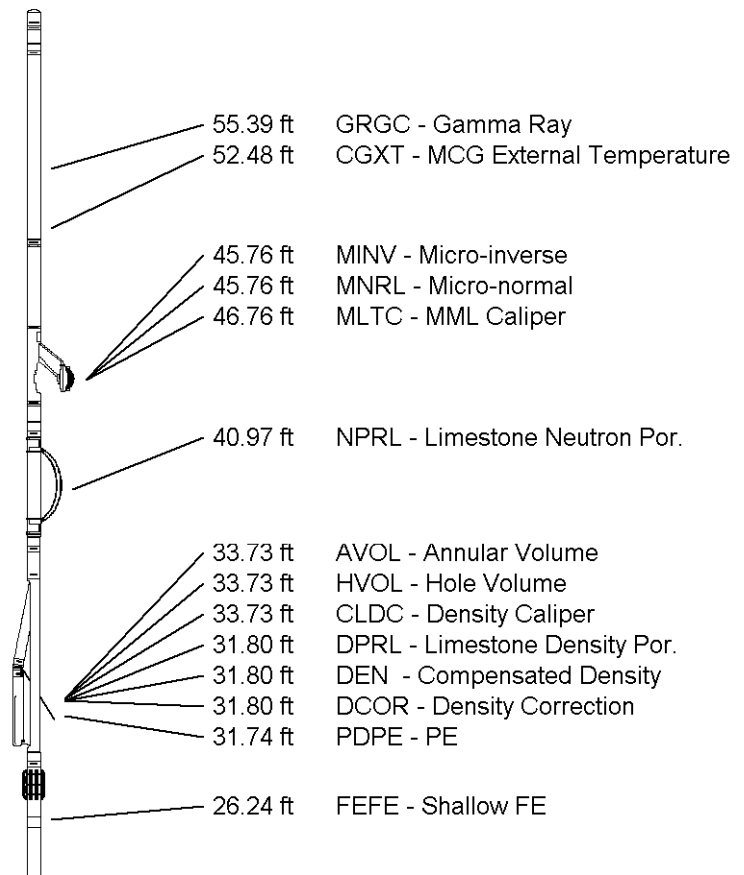
Compact Comms Gamma
MCG-B 34 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 16 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

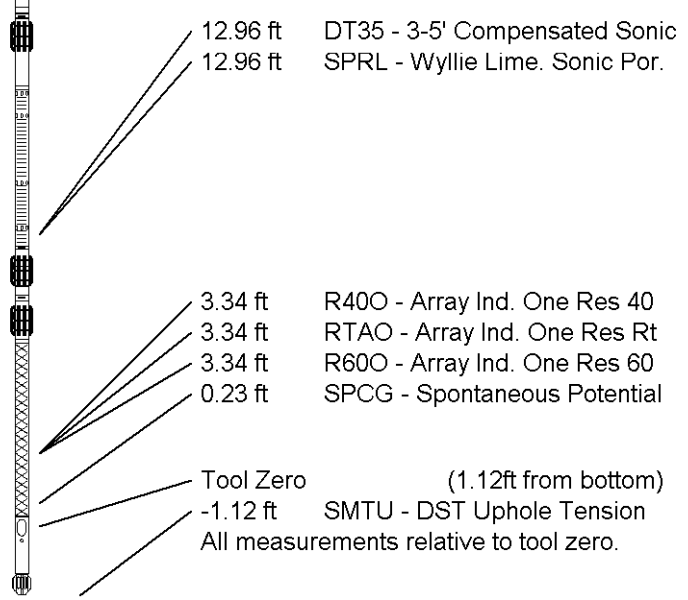
Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in



Compact Sonic
MSS-C.K 330 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

Compact Induction
MAI-A.A 45 LG: 11.79 ft WT: 48.5 lb OD: 2.24 in

Total Length: 63.24 ft Weight: 471.8 lb



COMPANY O'BRIEN RESOURCES, LLC
WELL PRATHER FARMS 22 #1
FIELD WILDCAT
PROVINCE/COUNTY GOVE
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2788.00	feet	First Reading	4648.00	feet
Elevation Drill Floor	2786.00	feet	Depth Driller	4650.00	feet
Elevation Ground Level	2778.00	feet	Depth Logger	4651.00	feet

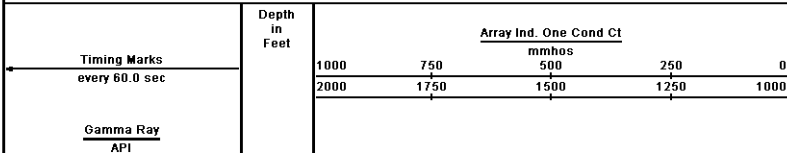


Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY: O'BRIEN RESOURCES, LLC		WELL: PRATHER FARMS 22 #1	
FIELD: WILDCAT		PROVINCE/COUNTY: GOVE	
COUNTRY/STATE: U.S.A. / KANSAS		LOCATION: 10027 FSL & 1965' FEL	
SEC 22	TIME 14S	TYPE ROF	Other Services
SPR Number 15-063-22100	MD/NM/PS	MMS	
Permanent Datum OL, Elevation 2778 feet		Elevations: K9 2788.00, OF 2786.00, OL 2778.00	
Log Measured From KB @ 10 FEET			
Drilling Measured From KB @ 10 FEET			
Date	23-MAY-2013		
Run Number	ONE		
Service Order	3539055		
Depth Driller	4650.00	feet	
Depth Logger	4651.00	feet	
First Reading	4648.00	feet	
Last Reading	260.00	feet	
Casing Driller	260.00	feet	
Casing Logger	260.00	feet	
Bit Size	7.875	inches	
Hoist Fluid Type	CHEMICAL		
Density/Viscosity	9.30	lb/USG	53.00 CP
PH/Fluid Loss	9.50		6.80 ml/30min
Sample Source	FLOWLINE		
Run @ Measured Temp	1.43	@ 80.0	dm-m
Run @ Measured Temp	1.14	@ 80.0	dm-m
Run @ Measured Temp	1.72	@ 80.0	dm-m
Source Rmt / Rmc	CALC		
Rm @ BHT	0.93	@ 73.0	dm-m
Time Since Circulation	4 HOURS		
Max Recorded Temp	173.00	deg F	
Equipment Base	13057	LIB	
Recorded By	ROB HOFFMAN		DEREK CARTER
Witnessed By	SEAN DEHNHAN		
LOG #	LB13-147		

1 INCH MAIN
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 23-MAY-2013 15:09
Filename: C:\Minimus 13.05.9583\Logs\O'Brien Resour... \O'Brien Resources Prather Farms 22 #1_002.dta
Recorded on 23-MAY-2013 12:27
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583



0 75 150
150 225 300

Spontaneous Potential
millivolts
- -> 20 | <- +

Bit Size
inches
6 11 16

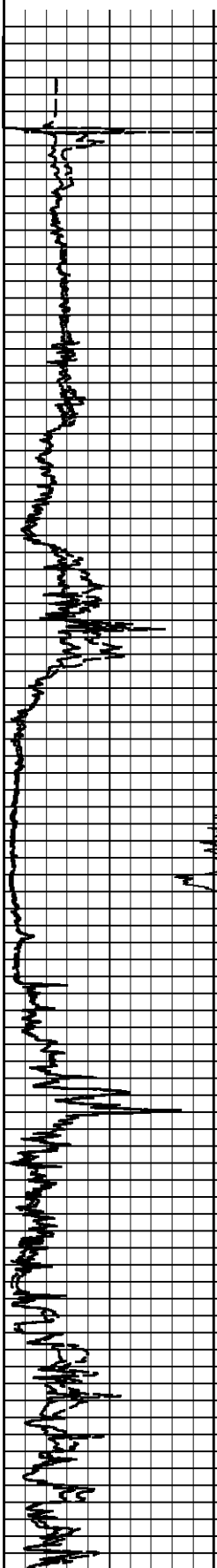
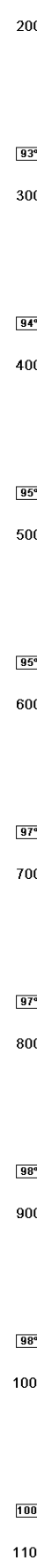
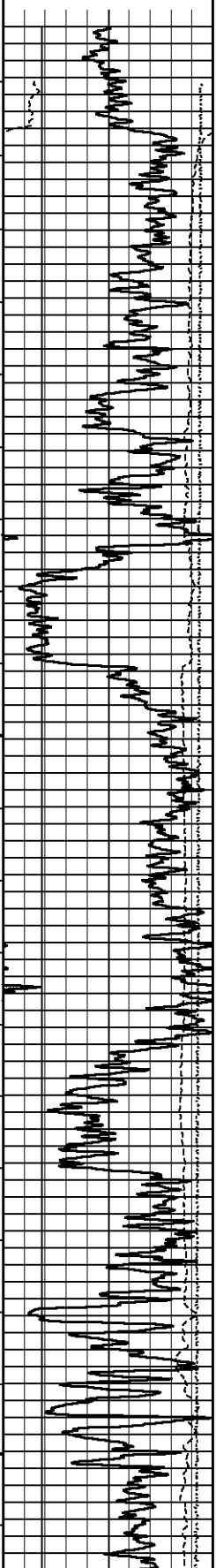
DST Uphole Tension
pounds
5000 0

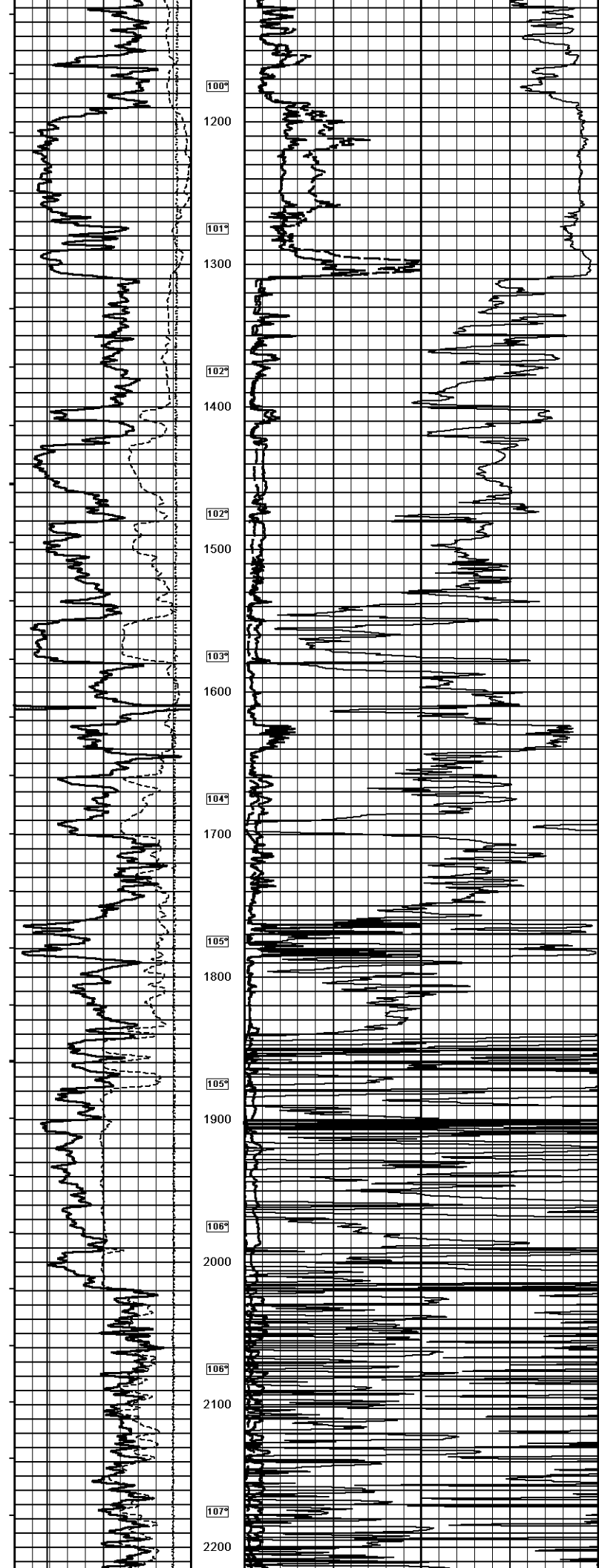
Borehole
Temp in
deg F

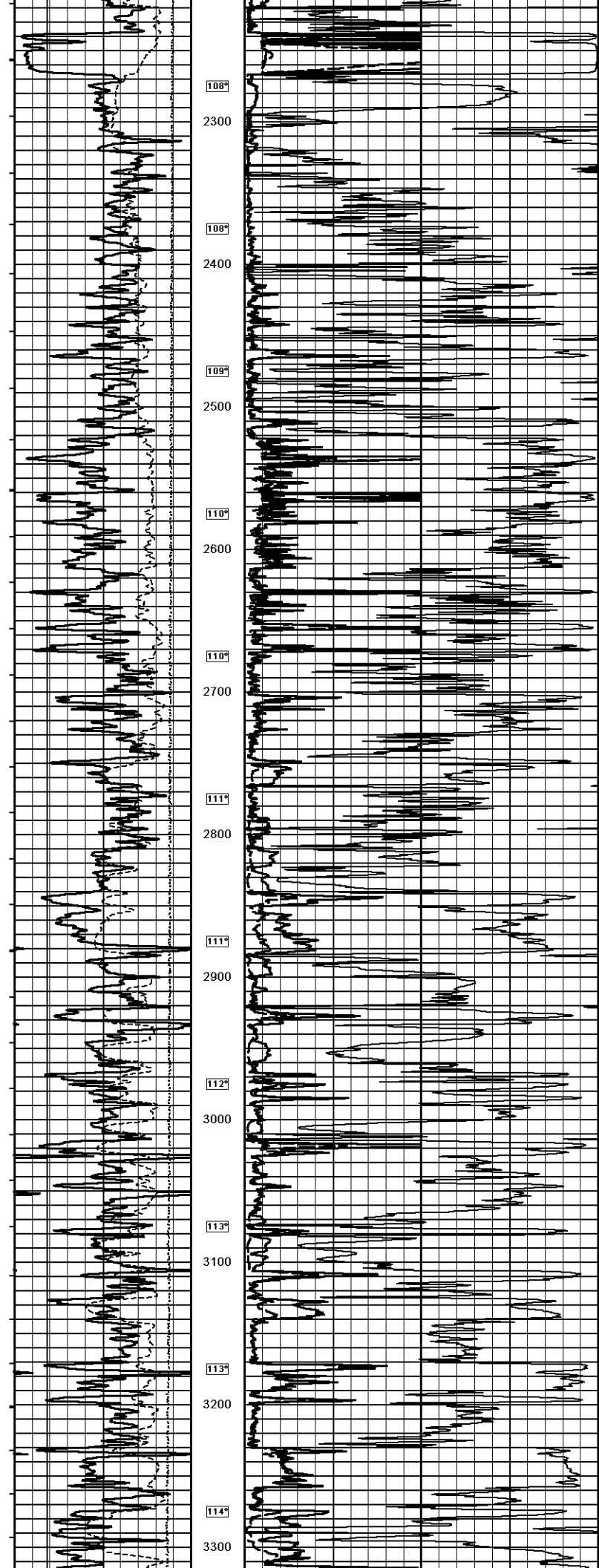
Shallow FE
ohm metres
0 25 50
0 250 500

Array Ind. One Res Rt
ohm metres
0 25 50
0 250 500

Replay
Scale
1:600







108°

2300

108°

2400

109°

2500

110°

2600

110°

2700

111°

2800

111°

2900

112°

3000

113°

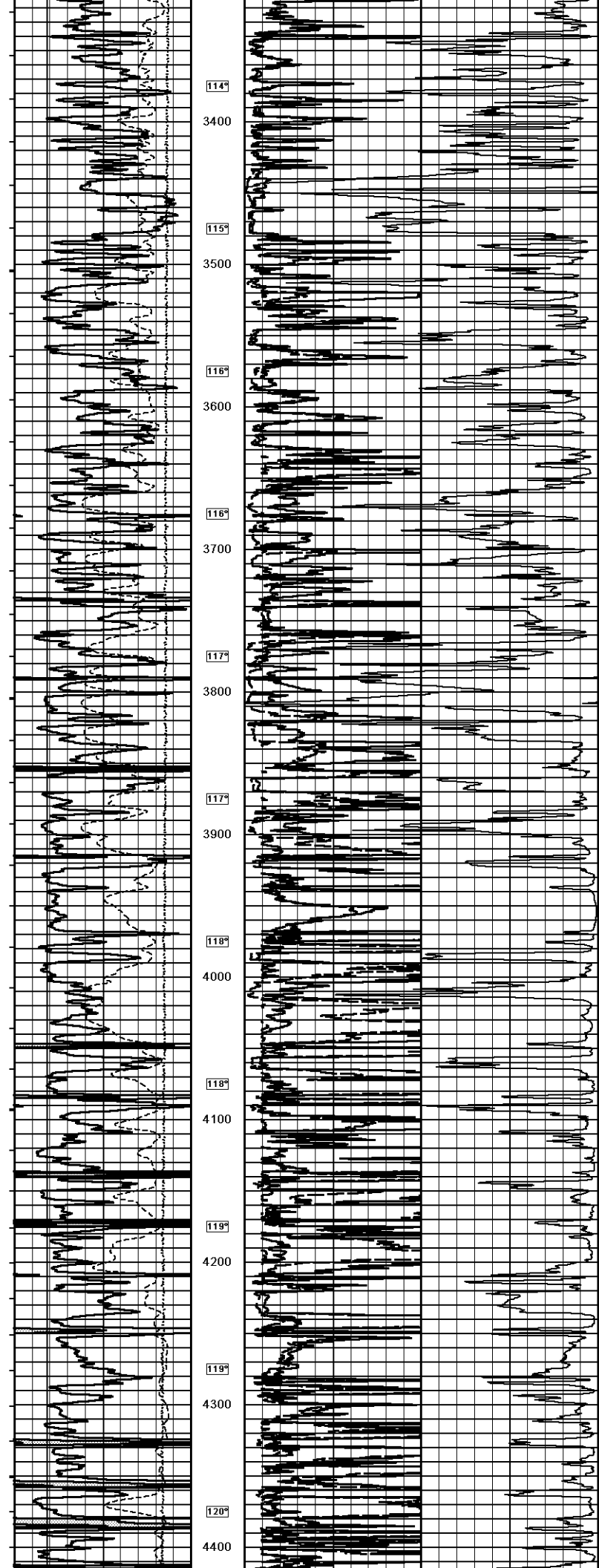
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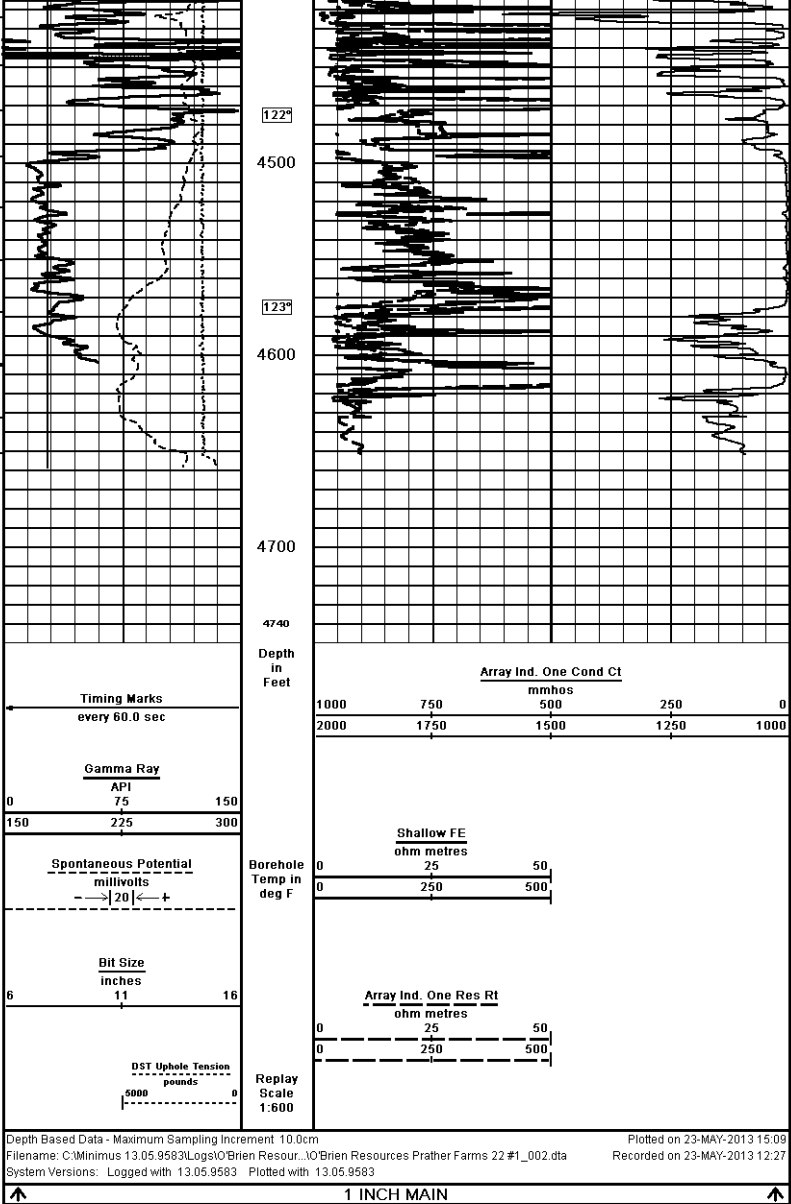
113°


3200

114°

3300





COMPANY	O'BRIEN RESOURCES, LLC				
WELL	PRATHER FARMS 22 #1				
FIELD	WILDCAT				
PROVINCE/COUNTY	GOVE				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2788.00	feet	First Reading	4648.00	feet
Elevation Drill Floor	2786.00	feet	Depth Driller	4650.00	feet
Elevation Ground Level	2778.00	feet	Depth Logger	4651.00	feet
		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG			