



DUAL INDUCTION LOG

Company YELLOW DOG ENERGY, LLC.

Well BAUGHMAN #28-1

Field RESERVOIR

County ROOKS State KANSAS

Location: API # : 15-163-24361-0000

1450' FSL & 1150' FWL

SEC 28 TWP 7S RGE 19W

Permanent Datum GROUND LEVEL Elevation 1927
Log Measured From KELLY BUSHING 6' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
MEL/SON
Elevation
K.B. 1933
D.F. 1931
G.L. 1927

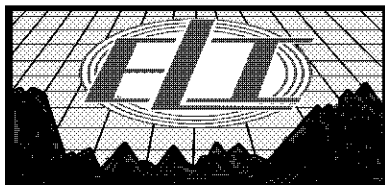
Date	5/17/18		
Run Number	ONE		
Depth Driller	3490		
Depth Logger	3491		
Bottom Logged Interval	3489		
Top Log Interval	00		
Casing Driller	8 5/8" @ 263		
Casing Logger	262		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3500 PPM	
Density / Viscosity	9.1/46		
pH / Fluid Loss	8.4/9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.75 @ 86F		
Rmf @ Meas. Temp	.56 @ 86F		
Rmc @ Meas. Temp	.90 @ 86F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.58 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	111F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JERRY GREEN		

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

Comments

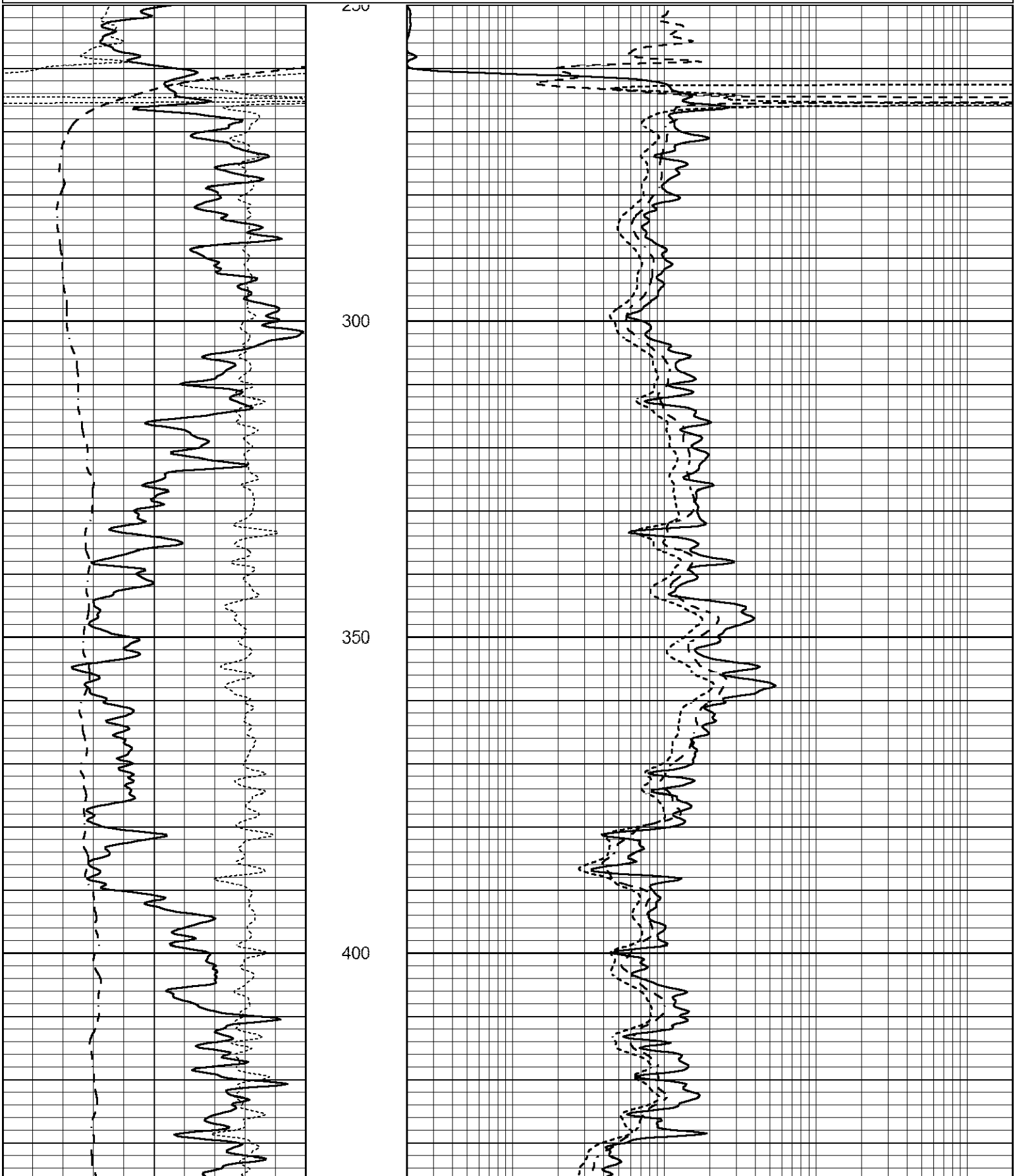
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
WEBSTER DAM RD. & HWY 24 - 2 WEST TO BAIT SHOP ROAD - 1/2 SOUTH - 1/4 EAST
SOUTH INTO

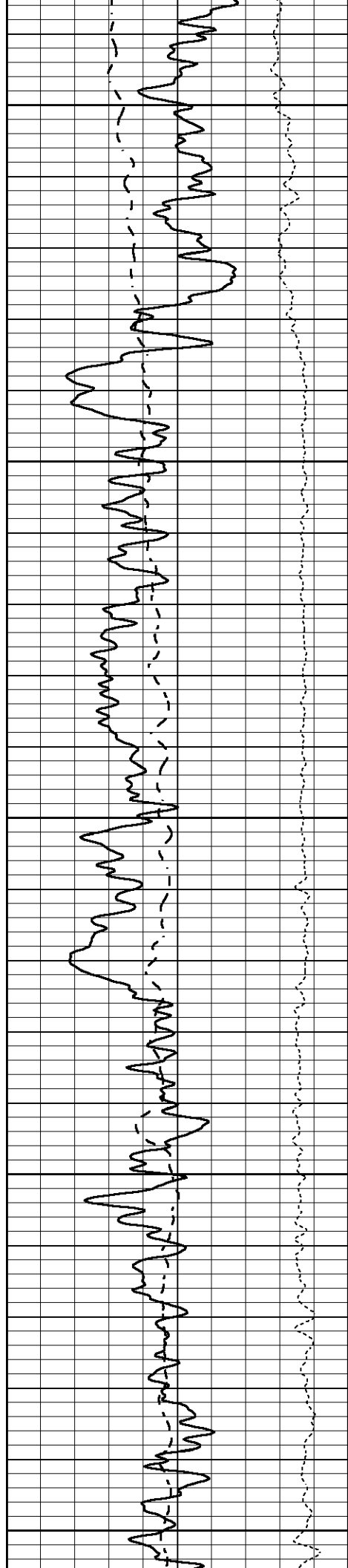


MAIN SECTION

Database File	2503ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_dil
Dataset Creation	Thu May 17 21:15:03 2018
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000





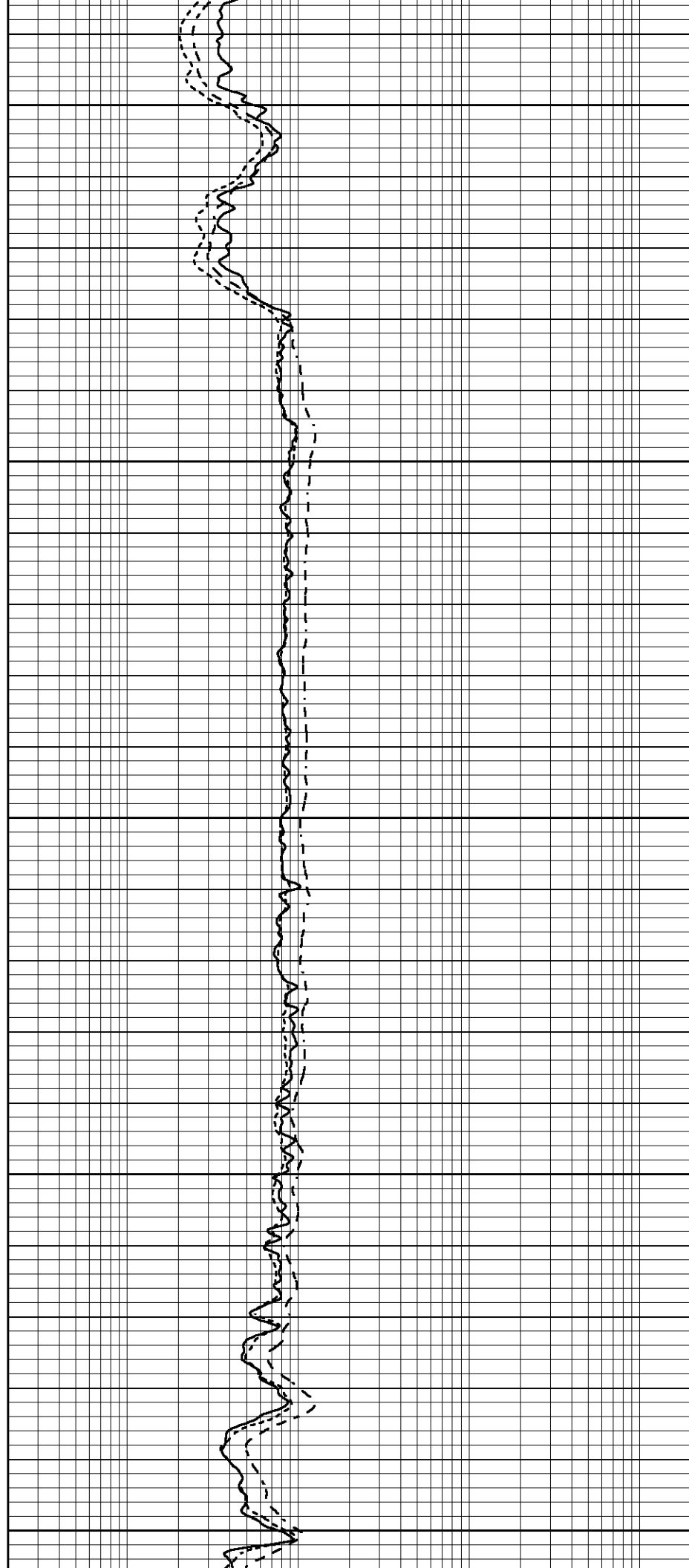
450

500

550

600

650



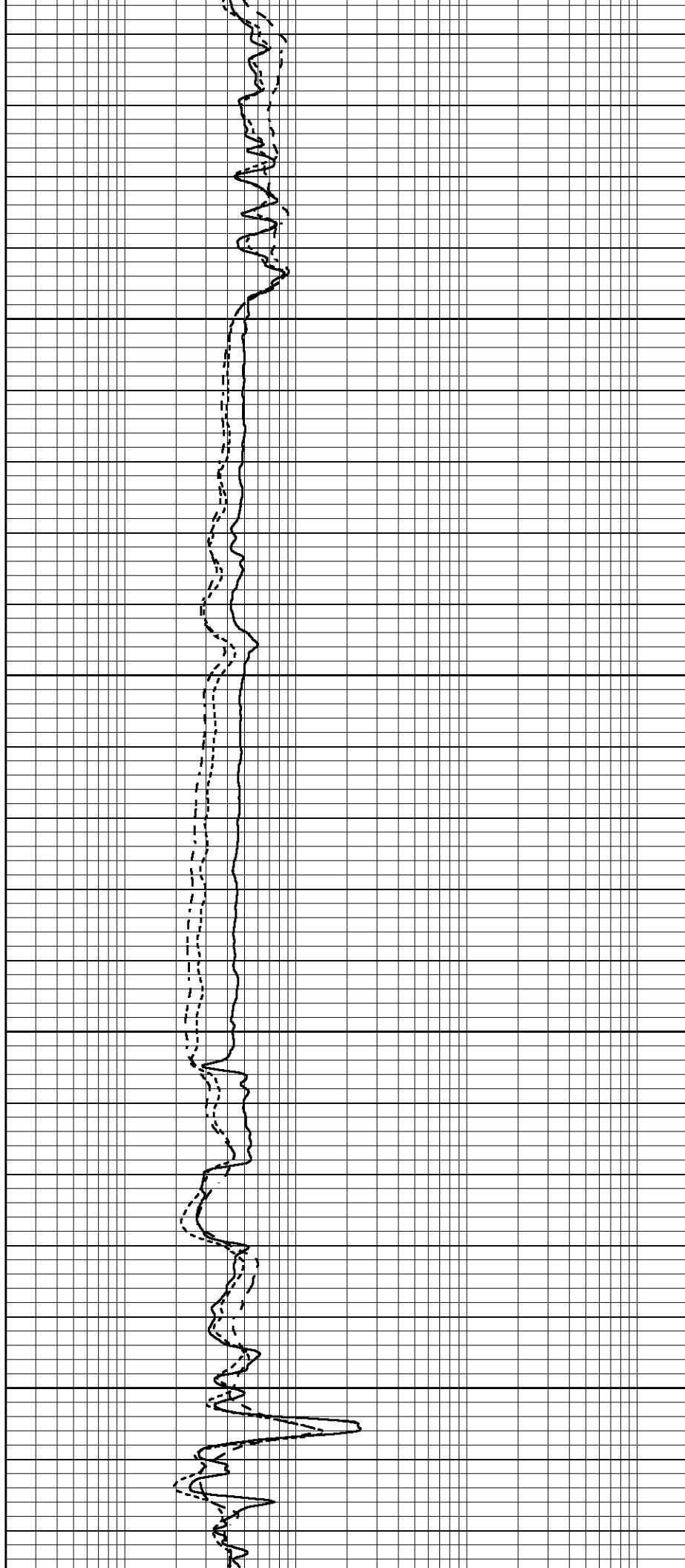


700

750

800

850



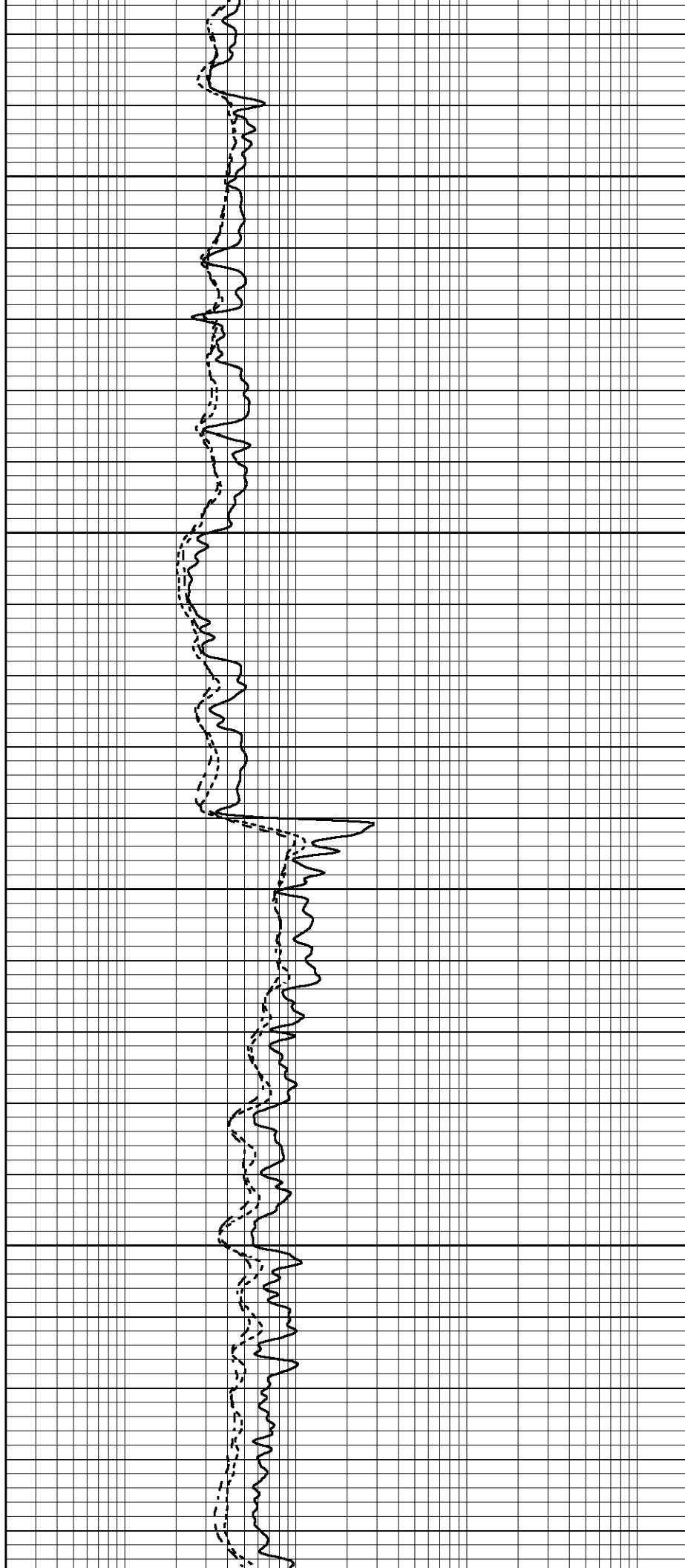


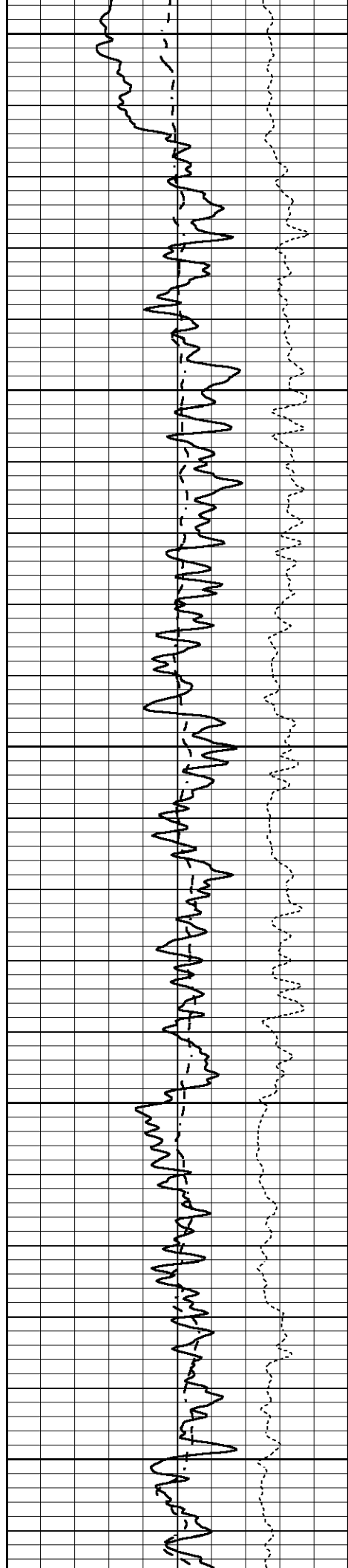
900

950

1000

1050





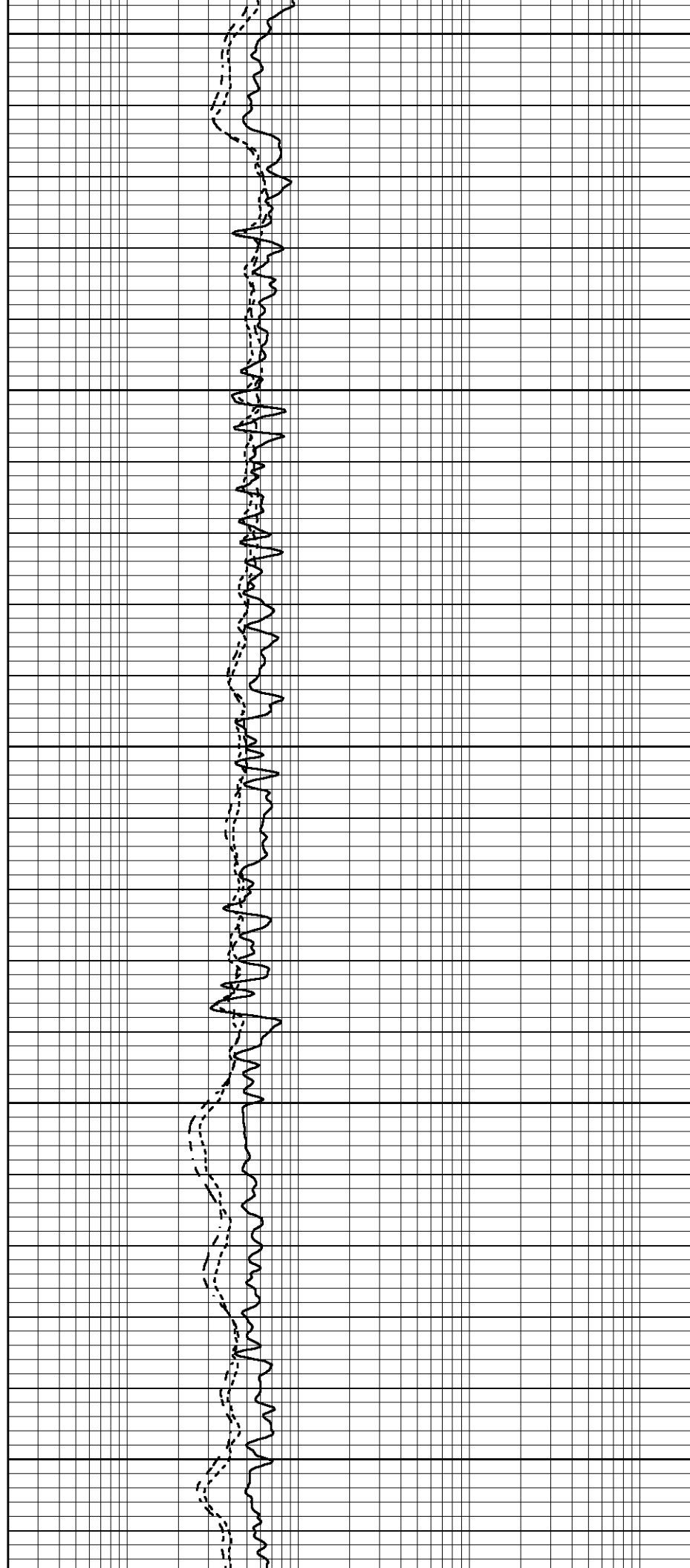
1100

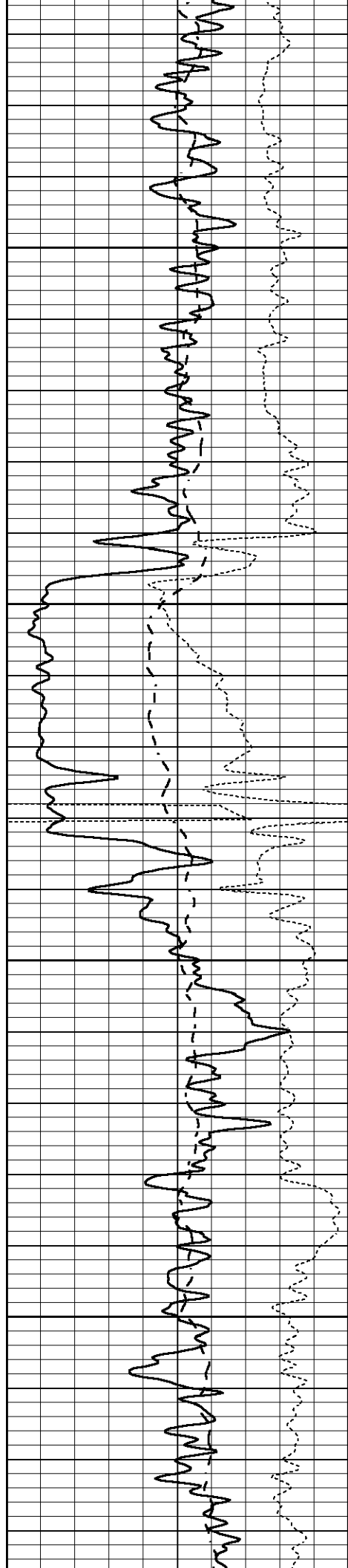
1150

1200

1250

1300



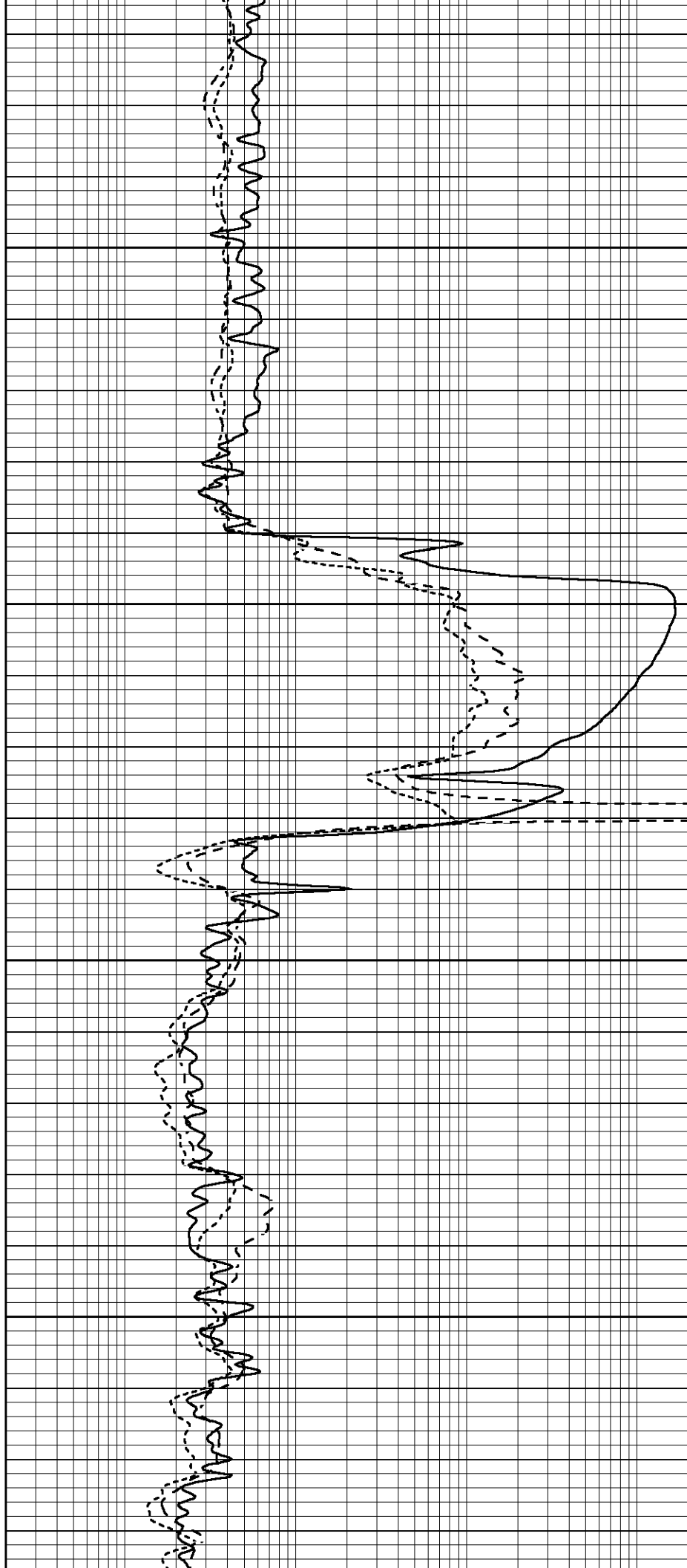


1350

1400

1450

1500





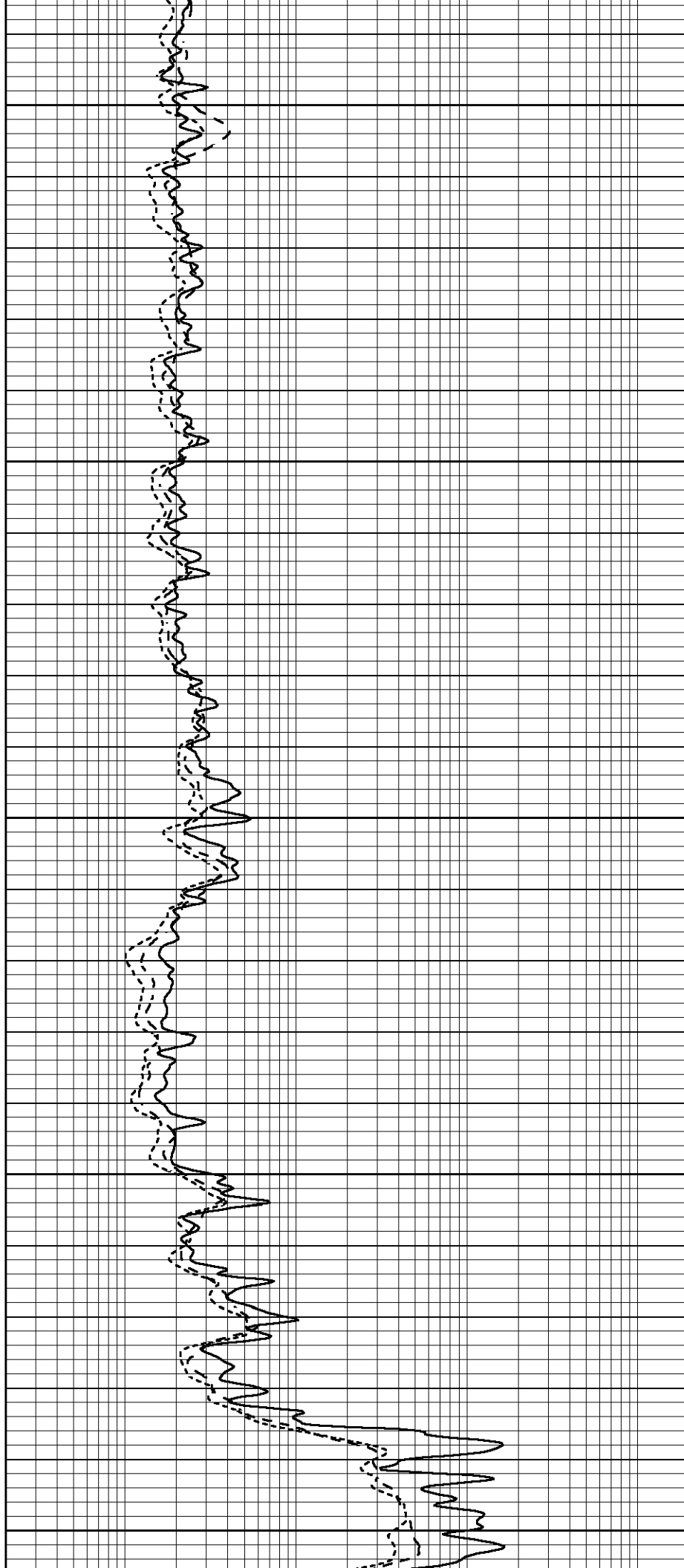
1550

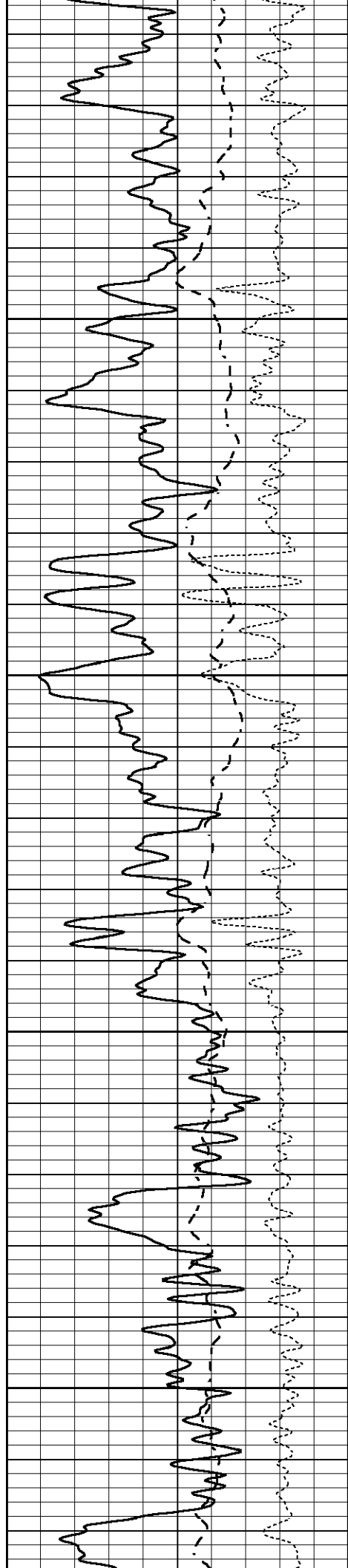
1600

1650

1700

1750



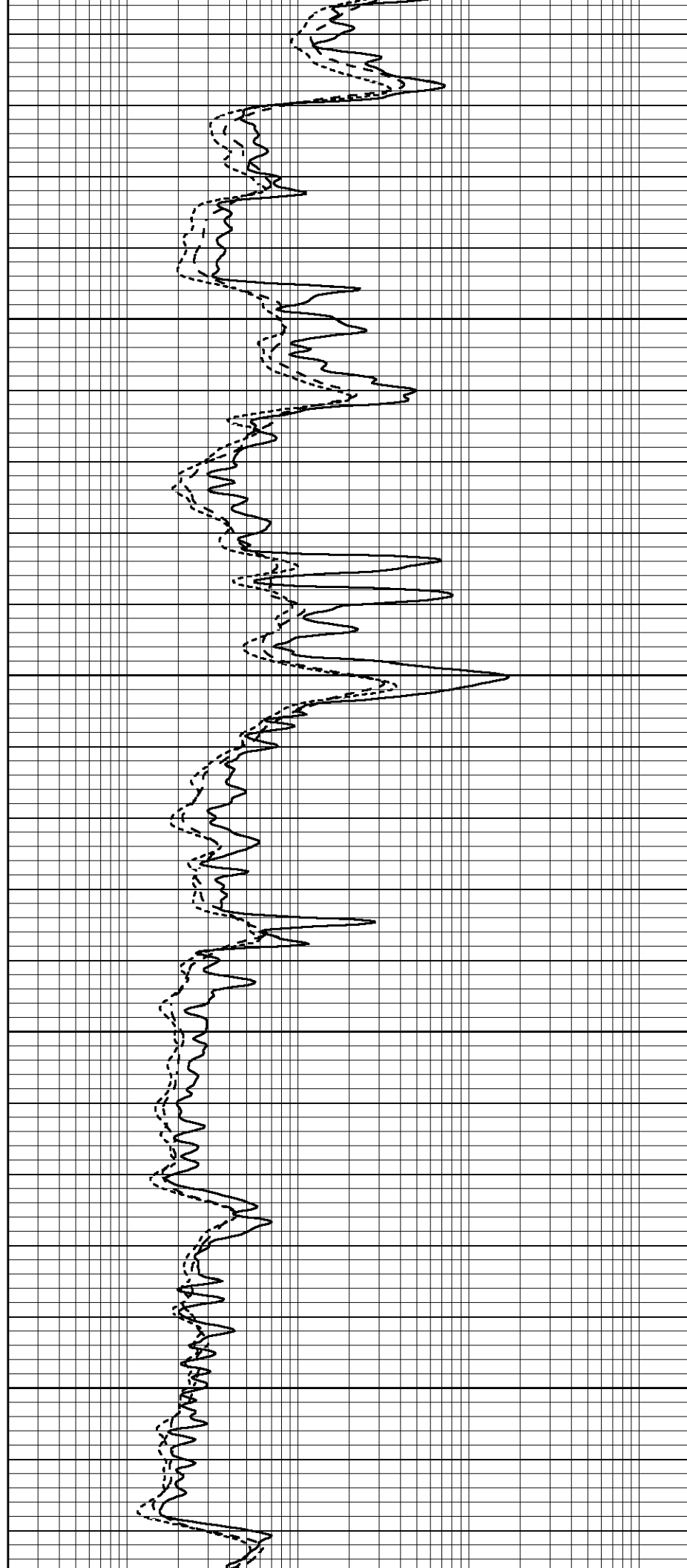


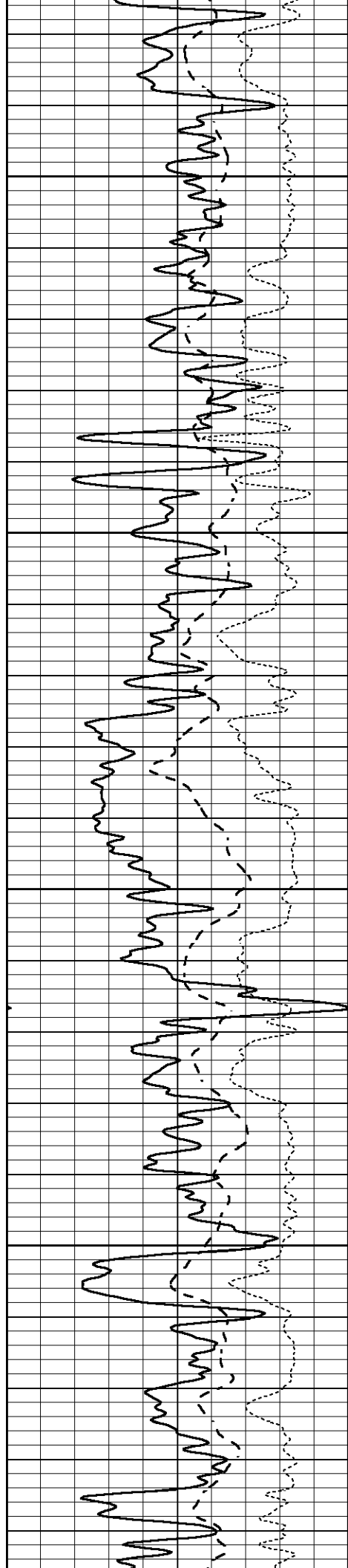
1800

1850

1900

1950



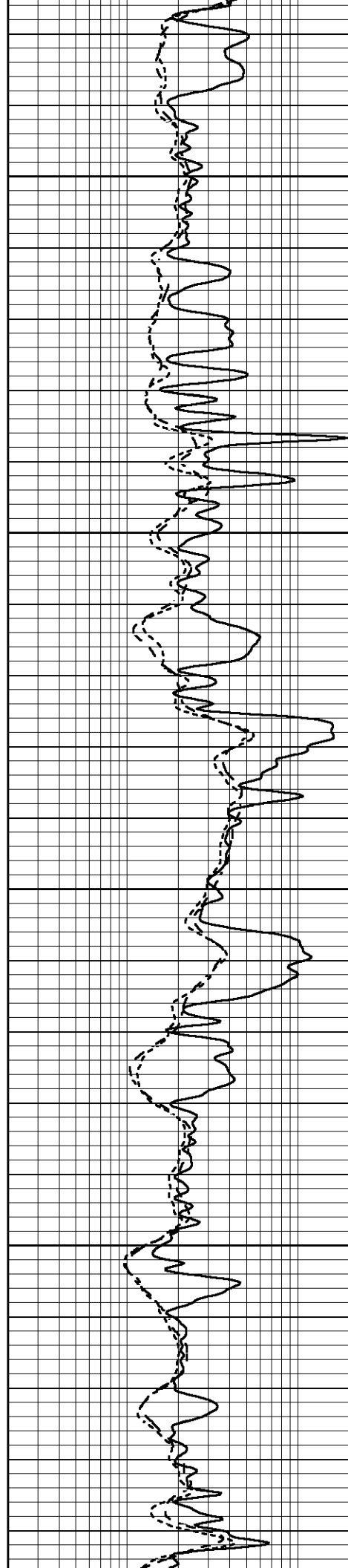


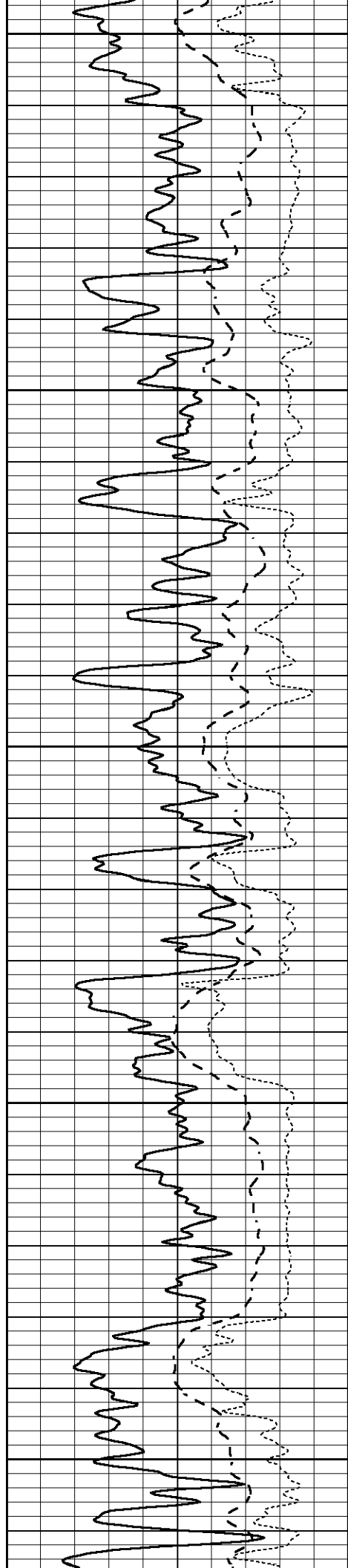
2000

2050

2100

2150





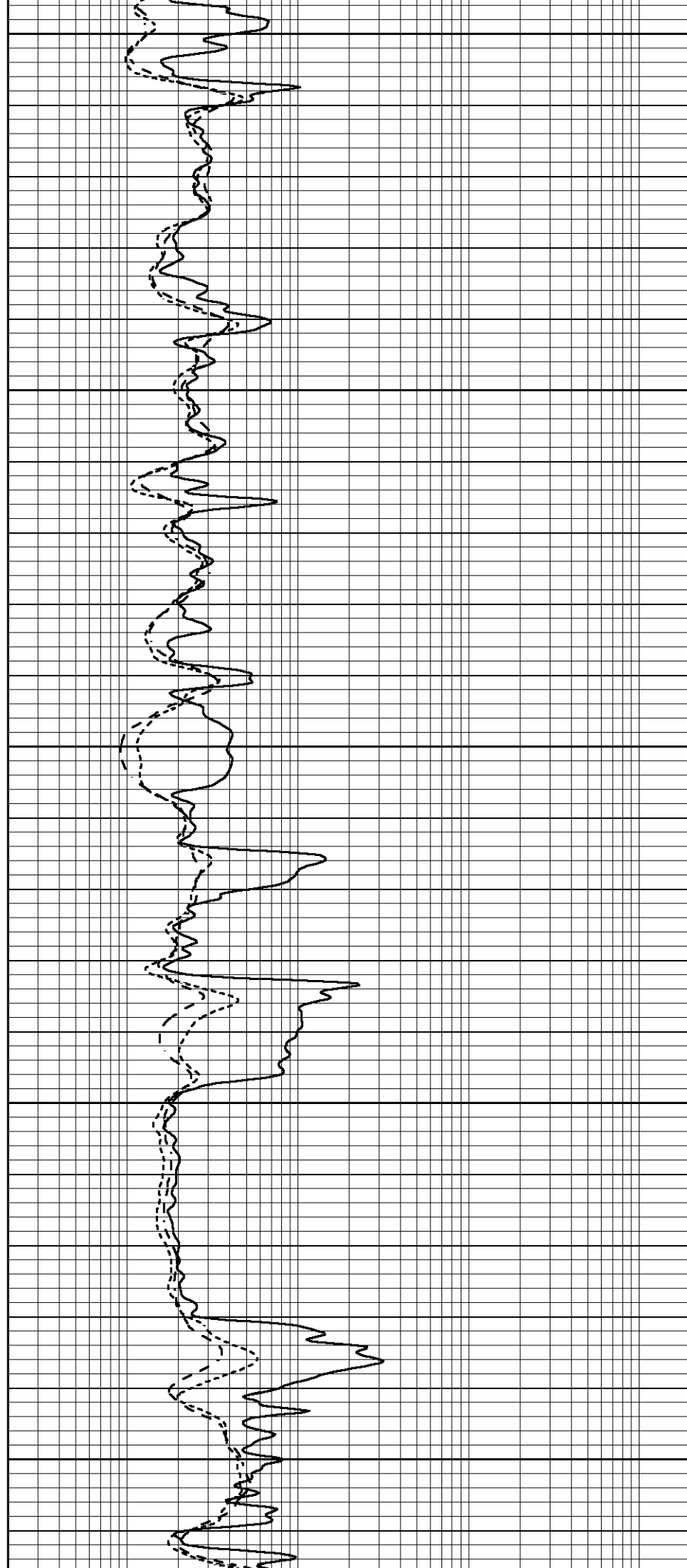
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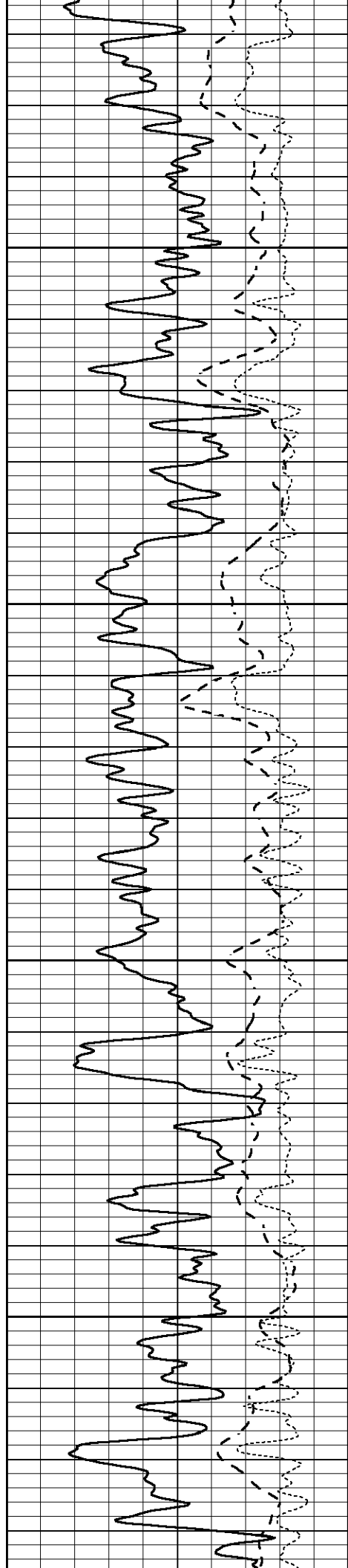
2250

2300

2350

2400



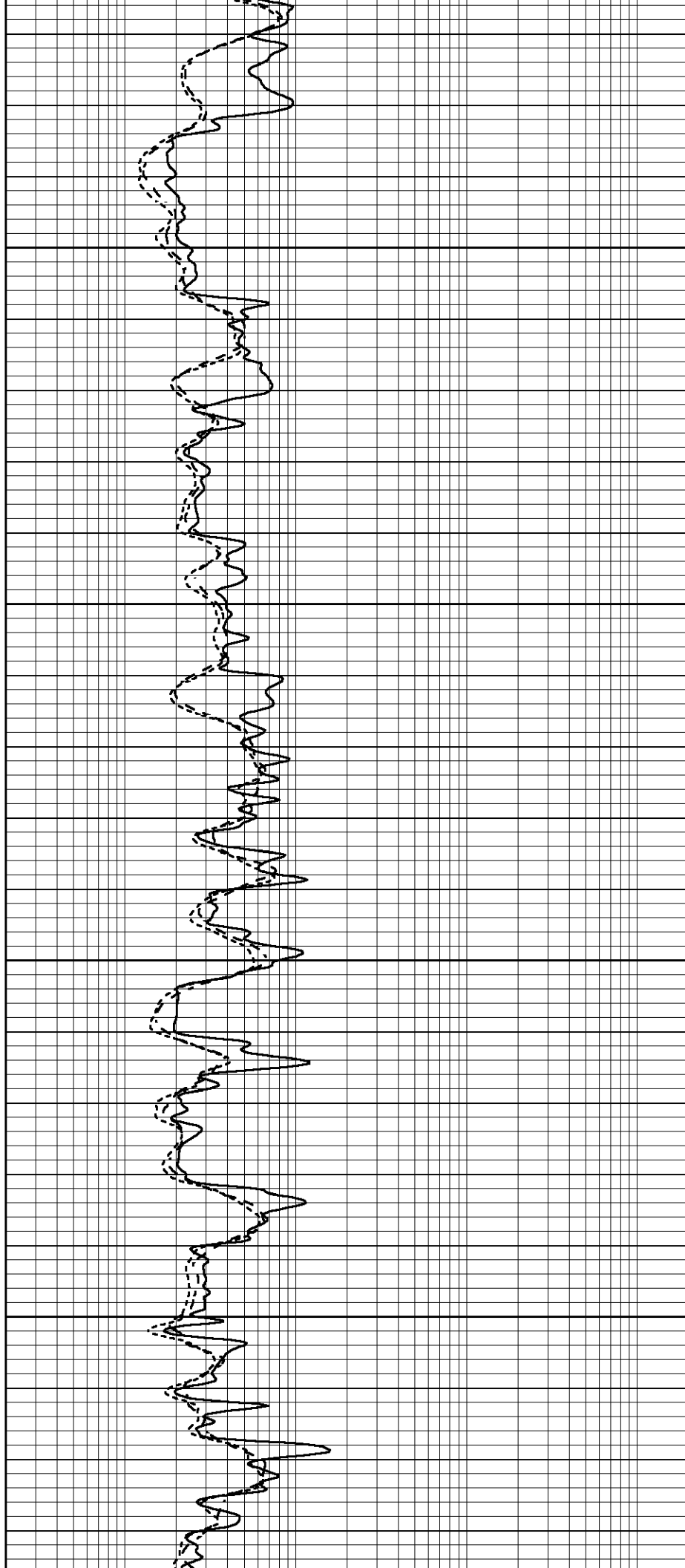


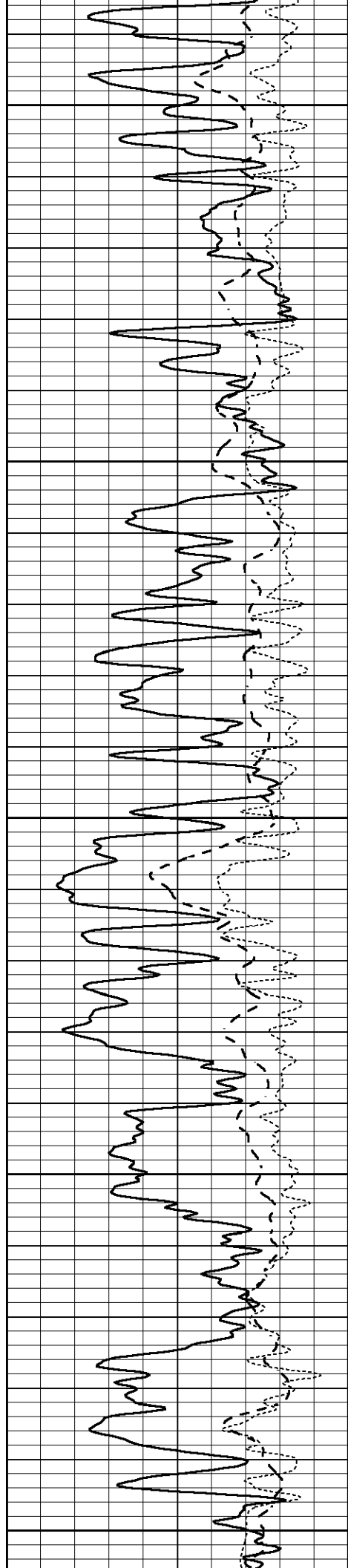
2450

2500

2550

2600





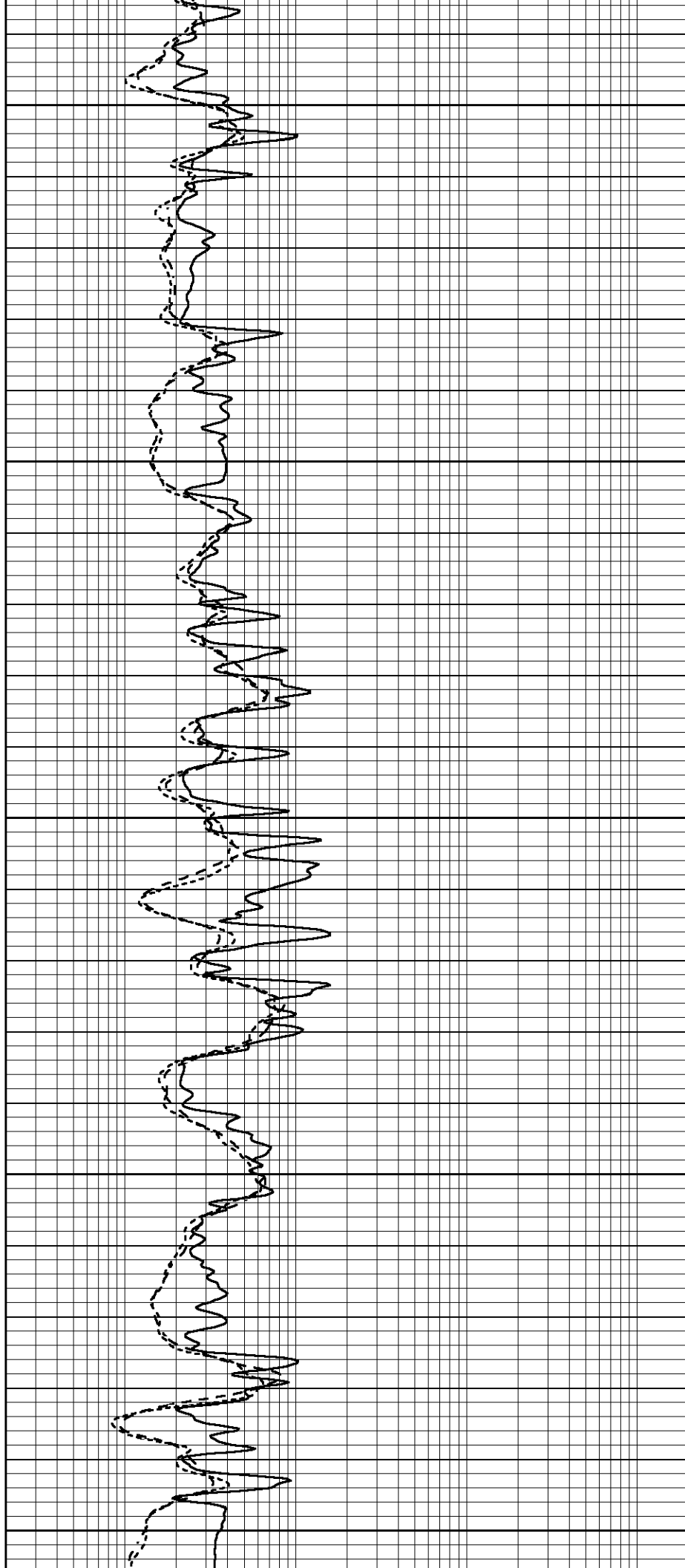
2650

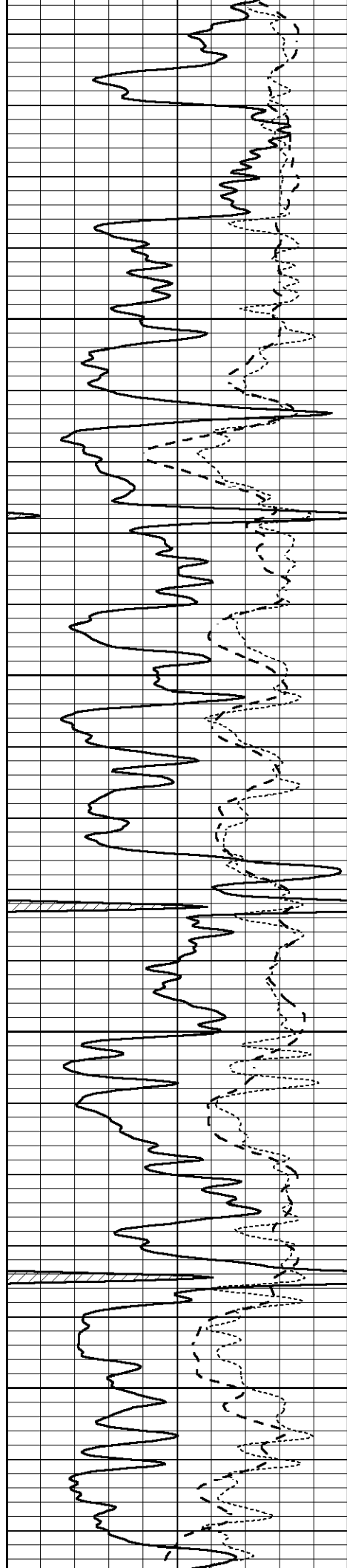
2700

2750

2800

2850



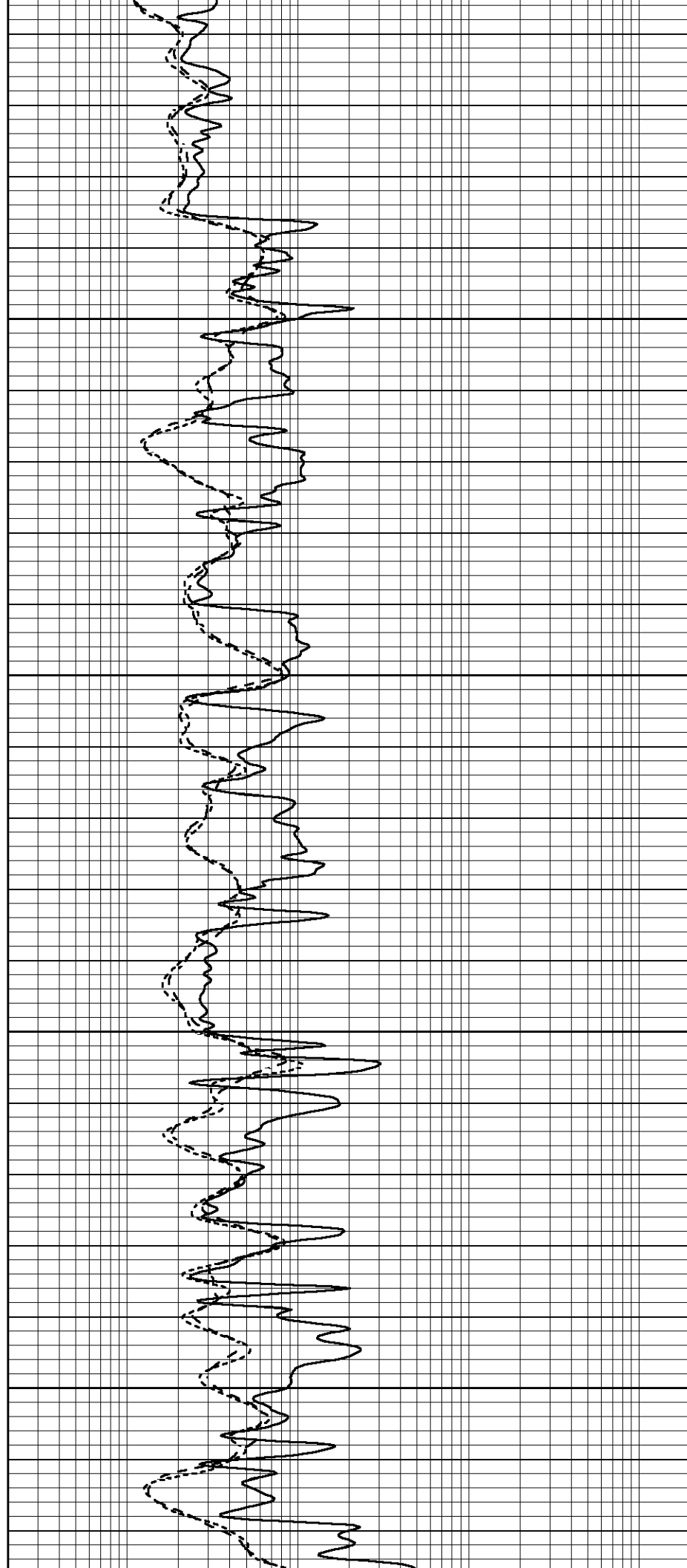


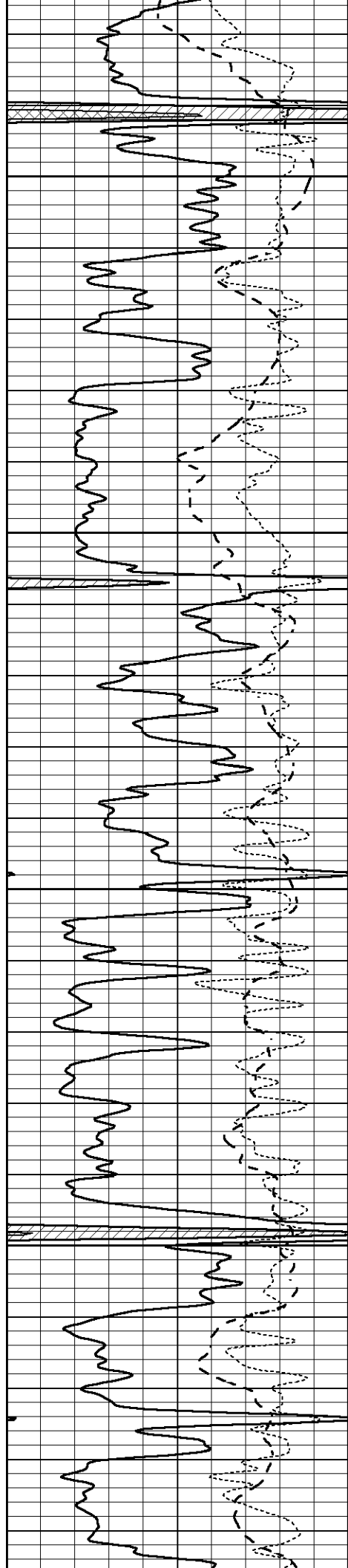
2900

2950

3000

3050



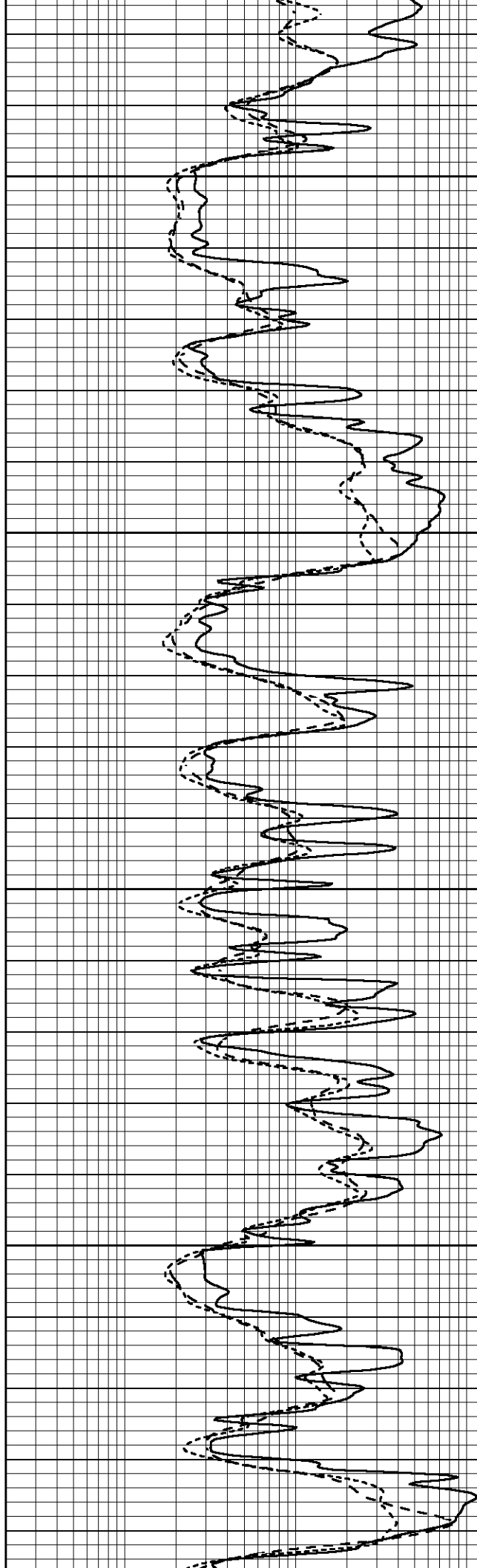


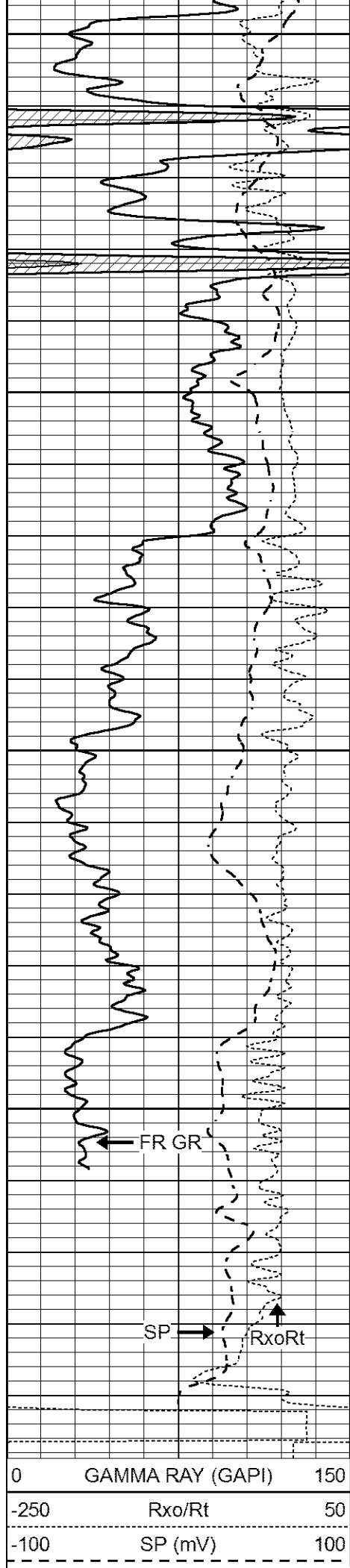
3100

3150

3200

3250





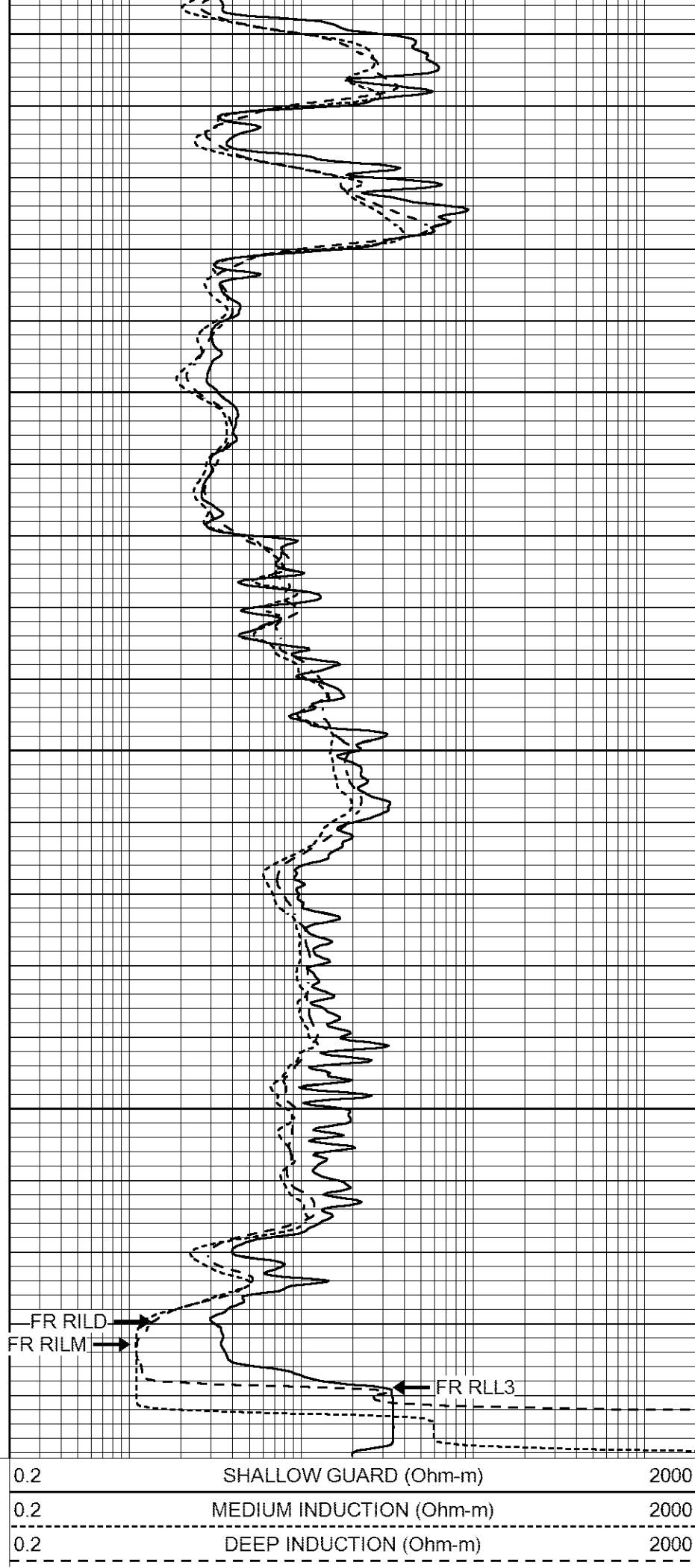
3300

3350

3400

3450

LTD 3491



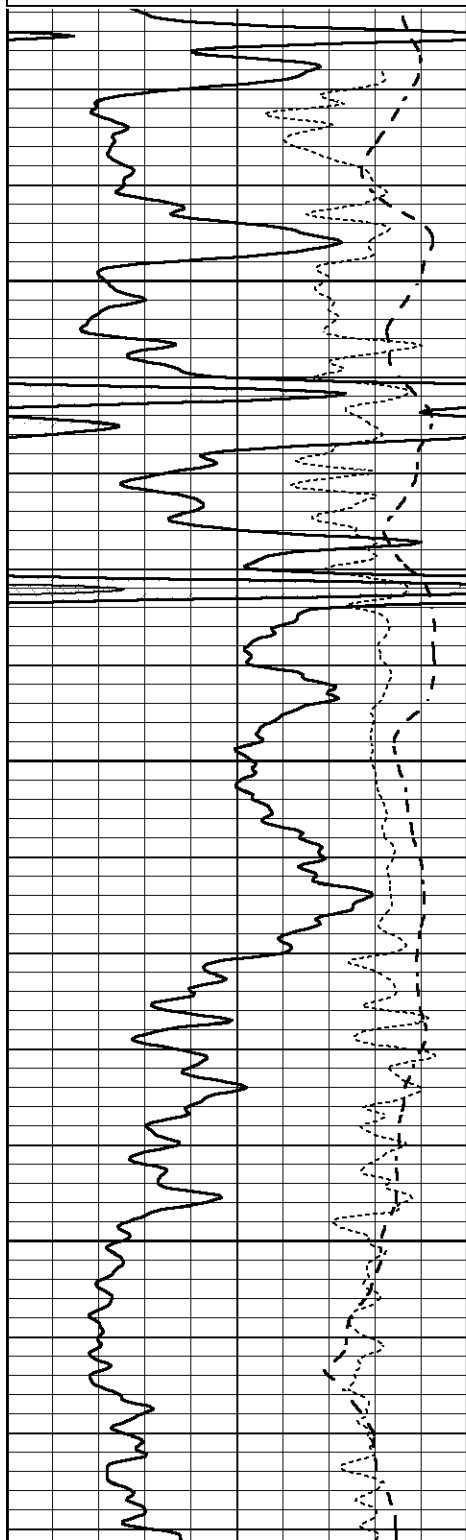


REPEAT SECTION

Database File 2503ddn8.db
Dataset Pathname pass2.2
Presentation Format _dil
Dataset Creation Thu May 17 20:57:45 2018
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-250	Rxo/Rt	50
-100	SP (mV)	100

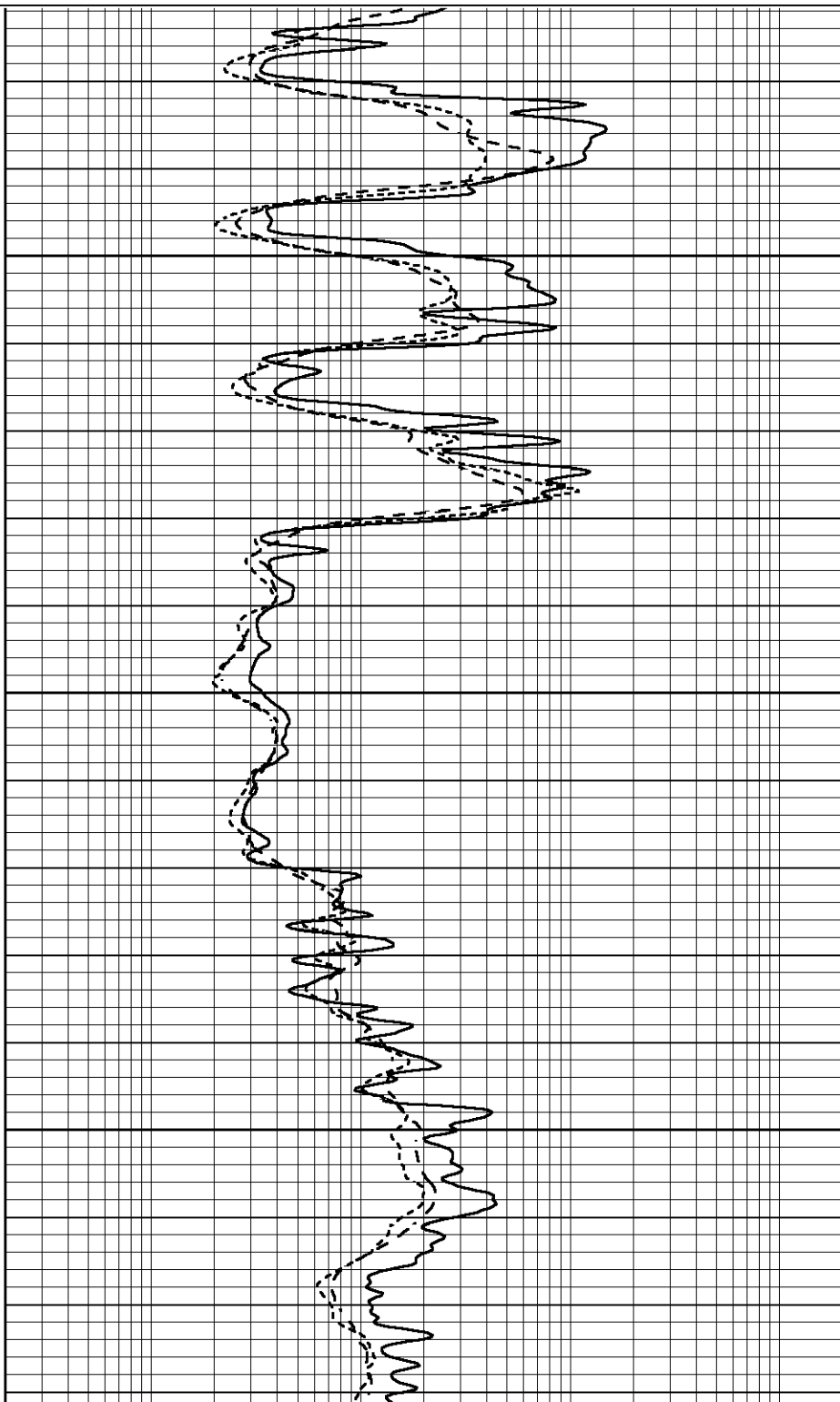
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

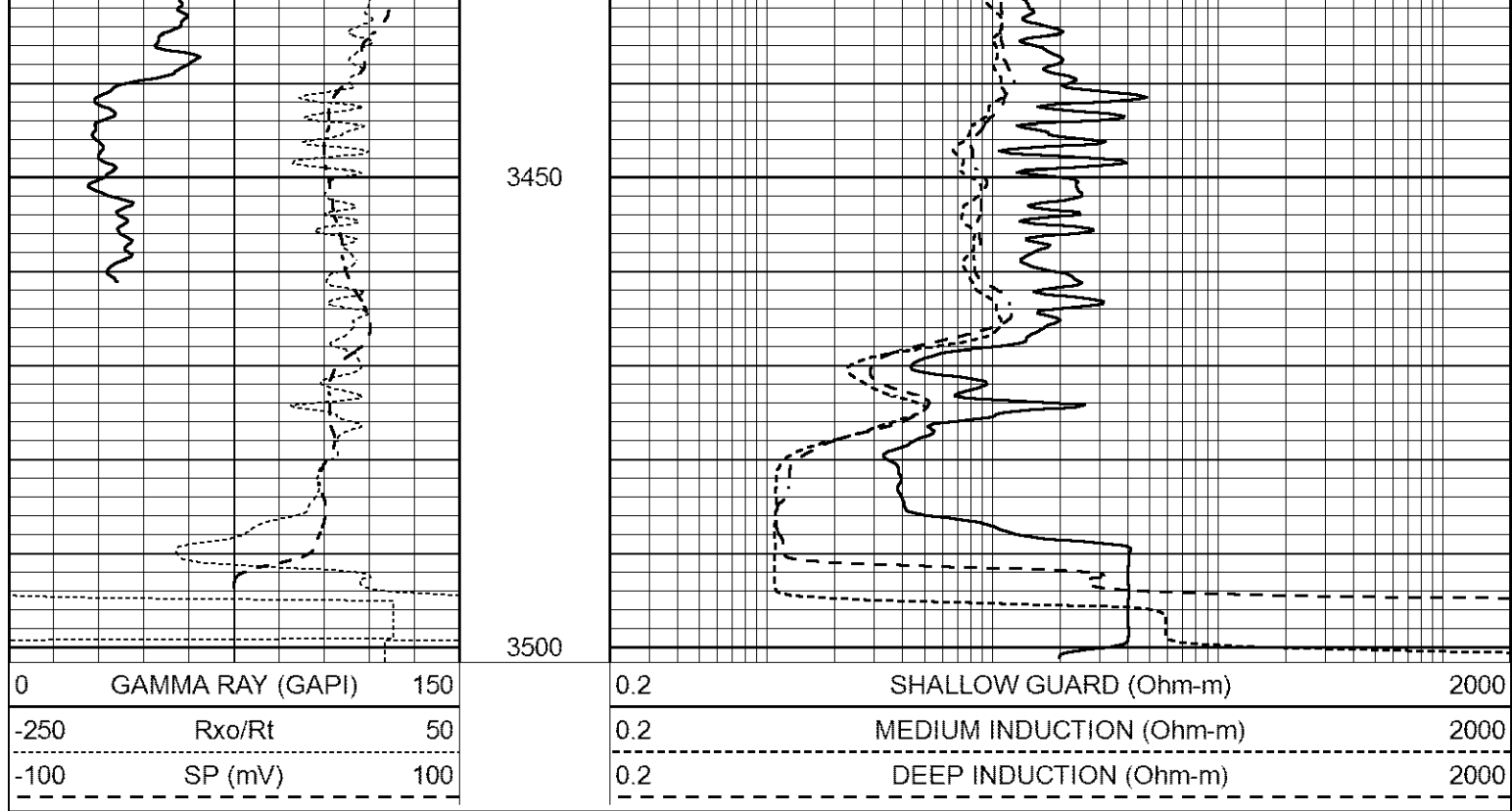


3300

3350

3400





Calibration Report									
Database File	2503ddn8.db								
Dataset Pathname	pass2.2								
Dataset Creation	Thu May 17 20:57:45 2018								
Dual Induction Calibration Report									
Serial-Model:					FW1410-55-Probe				
Surface Cal Performed:					Mon May 22 14:23:32 2017				
Downhole Cal Performed:					Thu Mar 12 09:29:20 2015				
After Survey Verification Performed:					Thu Mar 12 09:29:20 2015				
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595	
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099	
LL3		7.503	V		1500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3745.000	mmho-m			
After Survey Verification									
		Readings			Targets			Results	

	Zero	Cal		Zero	Cal		in	lb
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Litho Density Calibration Report Serial: 140704 Model: V4_10P Source Number: 74GBq-19								
Master Calibration			Performed: Tue May 15 14:57:29 2018					
	Background		Aluminum		Magnesium			
Window 1	579.21		5570.96		24438.90	cps		
Window 2	46.20		1286.61		6133.51	cps		
Window 4	252.32		1266.98		5265.66	cps		
Window 5	459.26		6111.72		17348.50	cps		
Window 6	143.82		93.53		2950.82	cps		
Window 8	105.39		1481.99		5482.30	cps		
Bulk Density	-		2.6020		1.6830	g/cc		
Pe	-		3.0000		2.5070	b/e		
LS Alpha:	: -1.8256		SS Alpha:	: -1.5335		LS CPE:	: 1.1070	
LS Beta:	: 120572.4277		SS Beta:	: 76415.4950		SS CPE:	: -24.5848	
Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969					
Window 1	0.00		cps					
Window 2	0.00		cps					
Window 4	0.00		cps					
Window 5	0.00		cps					
Window 6	0.00		cps					
Window 8	0.00		cps					
After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969					
Window 1	0.00		cps					
Window 2	0.00		cps					
Window 4	0.00		cps					
Window 5	0.00		cps					
Window 6	0.00		cps					
Window 8	0.00		cps					
Lithodensity Caliper Calibration			Performed: Tue May 15 14:57:29 2018					
Results	Readings		References (in)					
Low	High		Low	High		Gain	Offset	
1107.5	7124.1		8.0	15.0		0.0	6.3	
Before Survey Caliper Verification			Performed:					
	Reference		Reading					
Caliper (in)								

After Survey Caliper Verification

Performed:

Reference

Reading

Caliper (in)

Compensated Neutron Calibration Report

Serial Number:

080621PMC

Tool Model:

NABORS

PRE-SURVEY VERIFICATION

Detector

Readings

Measured

Target

Short Space

cps

Long Space

cps

pu

pu

POST-SURVEY VERIFICATION

Detector

Readings

Measured

Target

Short Space

cps

Long Space

cps

pu

pu

Gamma Ray Calibration Report

Serial Number:

070558

Tool Model:

Probe1

Performed:

Tue Jul 25 12:16:33 2017

Calibrator Value:

1.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.4000

GAPI/cps