

DUAL INDUCTION LOG

Company	MULL DRILLING COMPANY, INC.	Company	MULL DRILLING COMPANY, INC.
Well	WEEDEN #1-28	Well	WEEDEN #1-28
Field	UNNAMED	Field	UNNAMED
County	LYON	County	LYON
State	KANSAS	State	KANSAS
Location:	API # : 15-111-20558-0000 1740' FSL & 1499' FEL N/2, SW/4	Other Services CDL/CNL/PE MEL/SON	
Permanent Datum	SEC 28 TWP 21S RGE 12E	Elevation	
Log Measured From	GROUND LEVEL Elevation 1232	K.B. 1238	
Drilling Measured From	KELLY BUSHING 6' A.G.L KELLY BUSHING	D.F. 1236	
		G.L. 1232	
Date	6/16/22		
Run Number	ONE		
Depth Driller	2050		
Depth Logger	2047		
Bottom Logged Interval	2045		
Top Log Interval	00		
Casing Driller	8 5/8" @ 40'		
Casing Logger	50		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	3.50 @ 75F		
Rmf @ Meas. Temp	2.63 @ 75F		
Rmc @ Meas. Temp	4.20 @ 75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	2.65 @ 99F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	4:30 P.M.		
Maximum Recorded Temperature	99F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	BLAKE MILLER	RUSTY MOURNING	

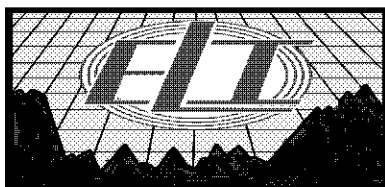
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

OLPE, KS. SOUTH ON KS-99, 3 MILES EAST ON RD. 30,
0.7 MILES SOUTH ON RD. R, EAST INTO

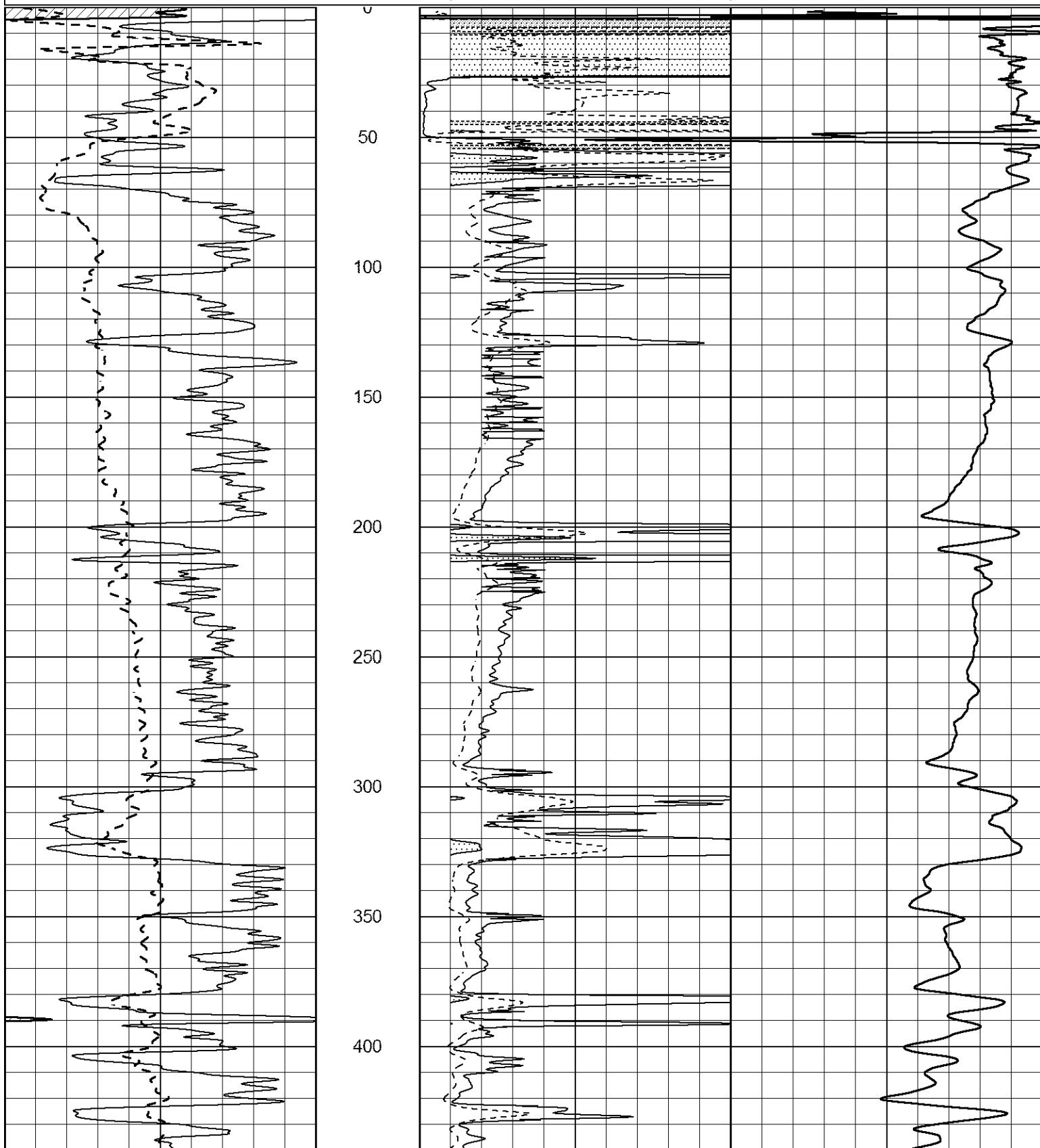


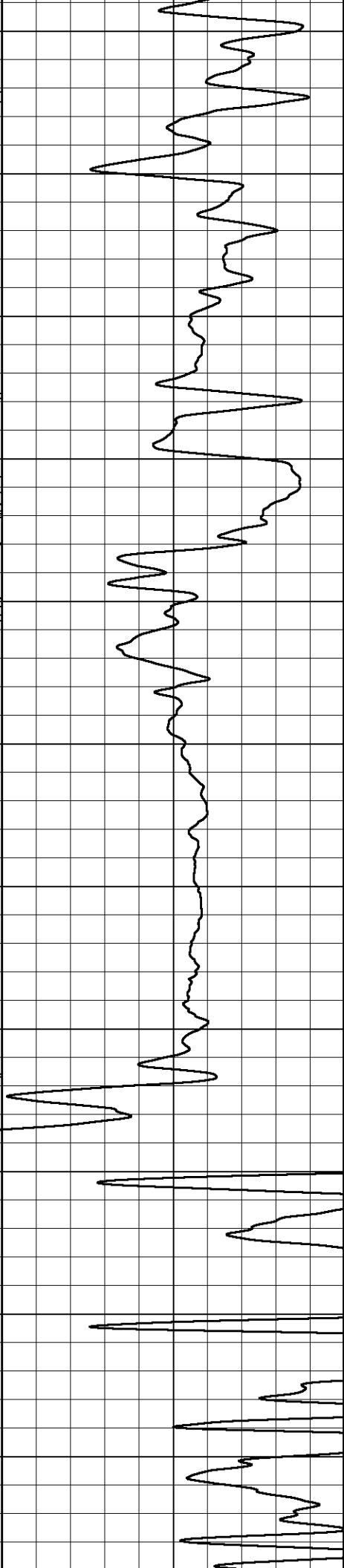
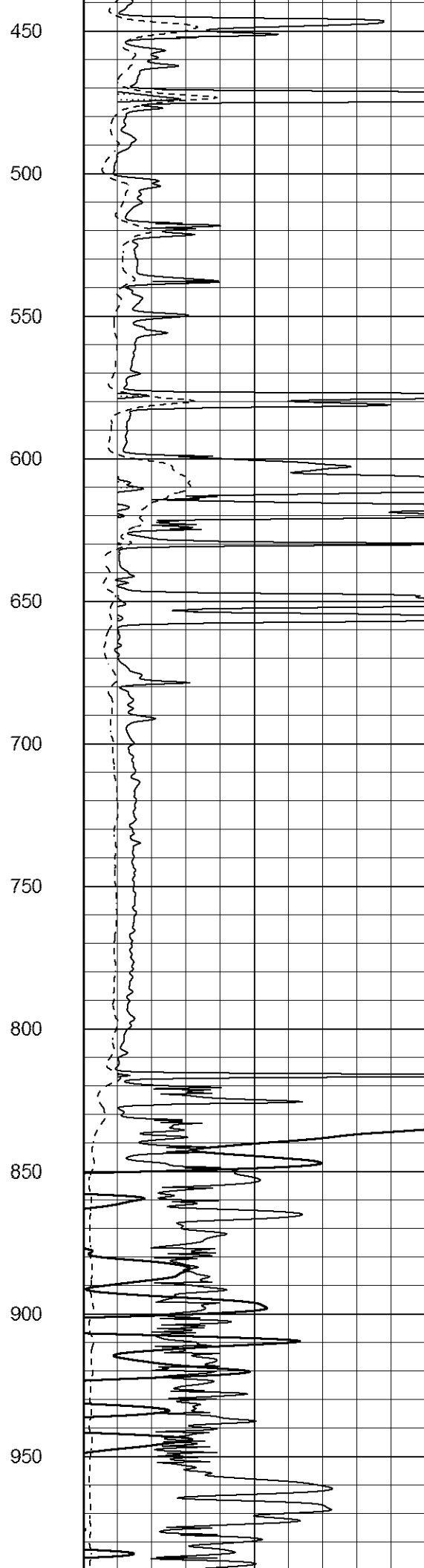
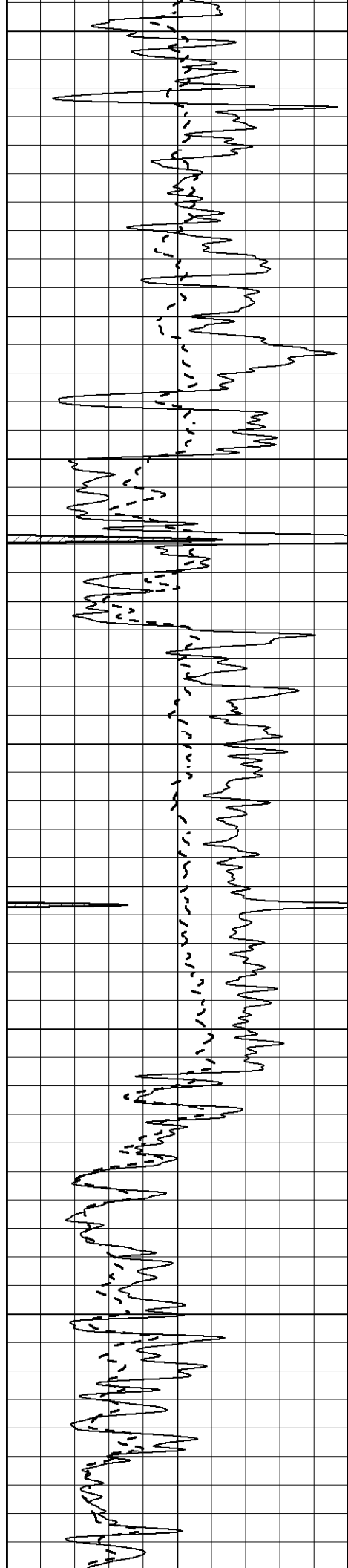
MAIN SECTION

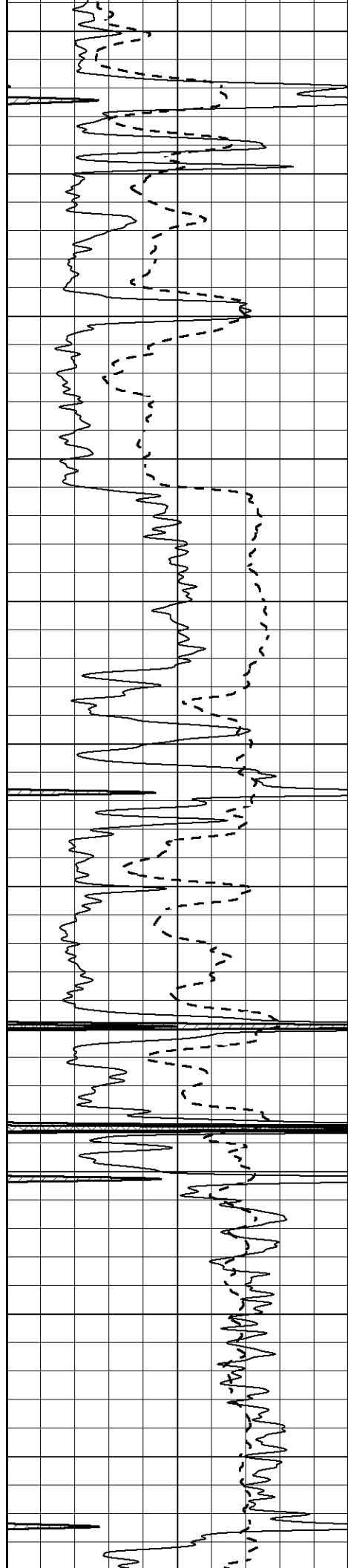
Database File 6543pe.db
Dataset Pathname pass3.1M
Presentation Format _dil2
Dataset Creation Thu Jun 16 17:54:33 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500







1000

1050

1100

1150

1200

1250

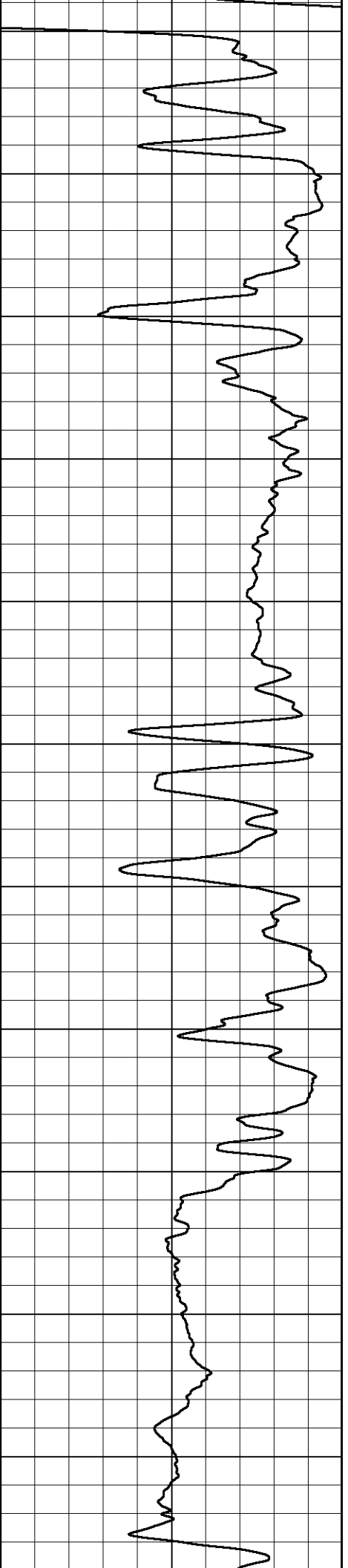
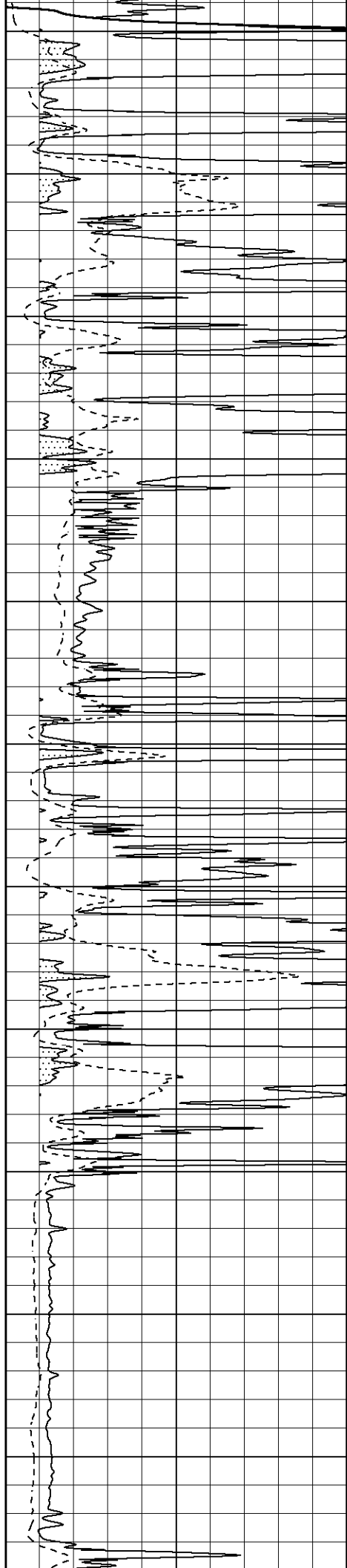
1300

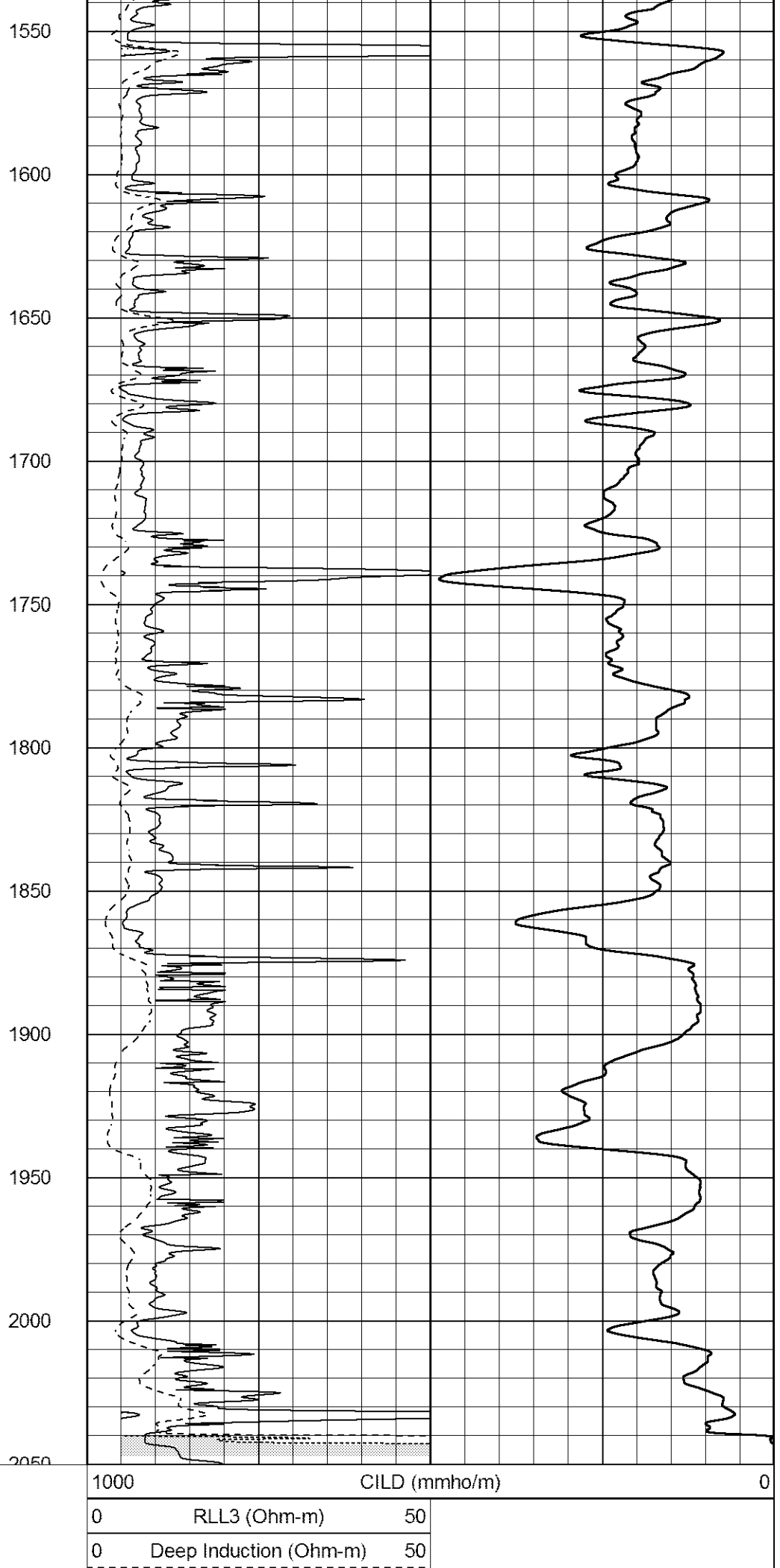
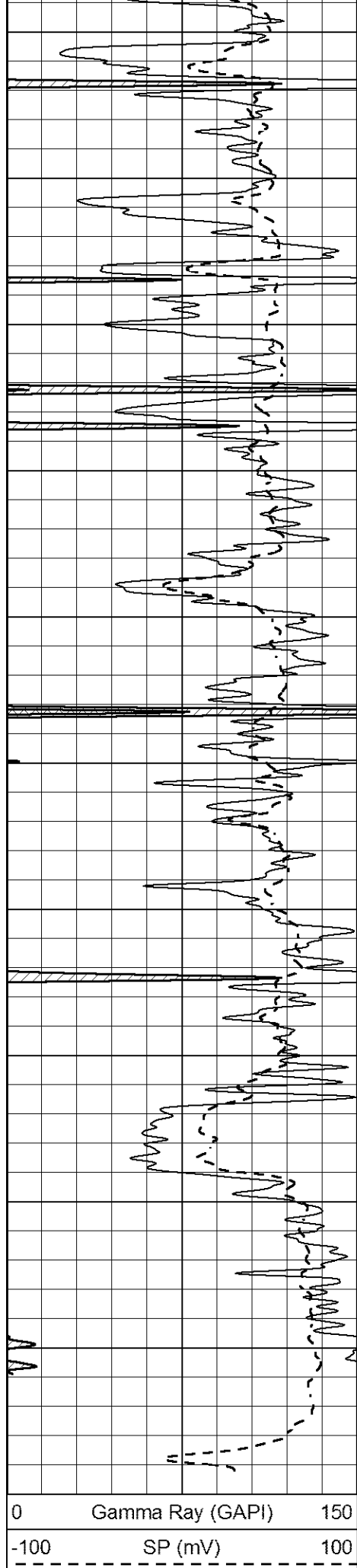
1350

1400

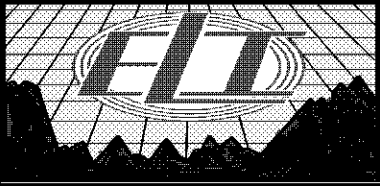
1450

1500





50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

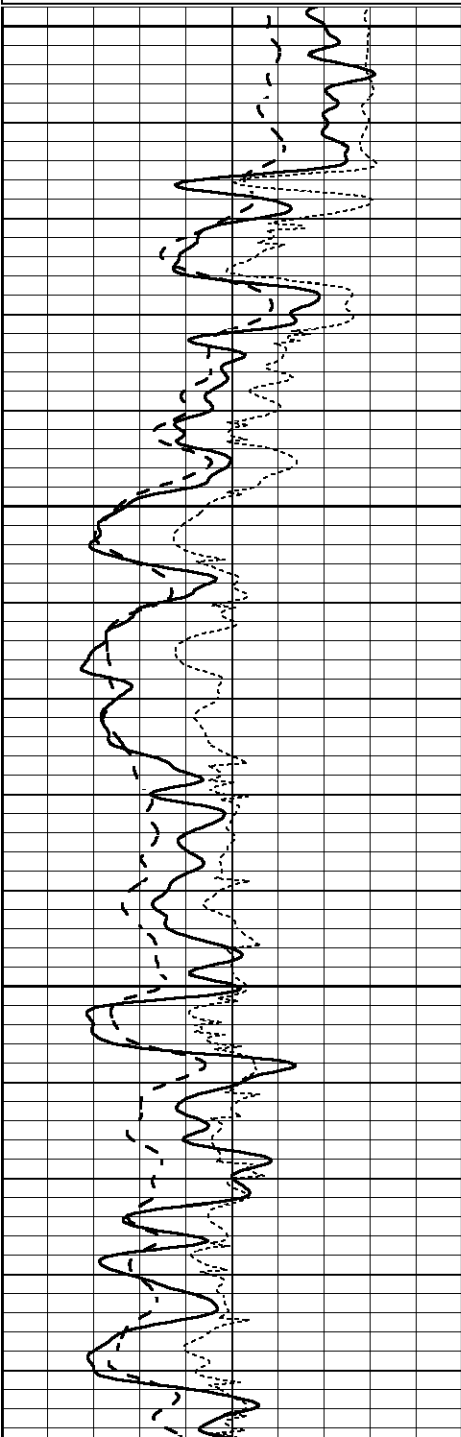


MAIN SECTION

Database File 6543pe.db
 Dataset Pathname pass3.1M
 Presentation Format _dil
 Dataset Creation Thu Jun 16 17:54:33 2022
 Charted by Depth in Feet scaled 1:240

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

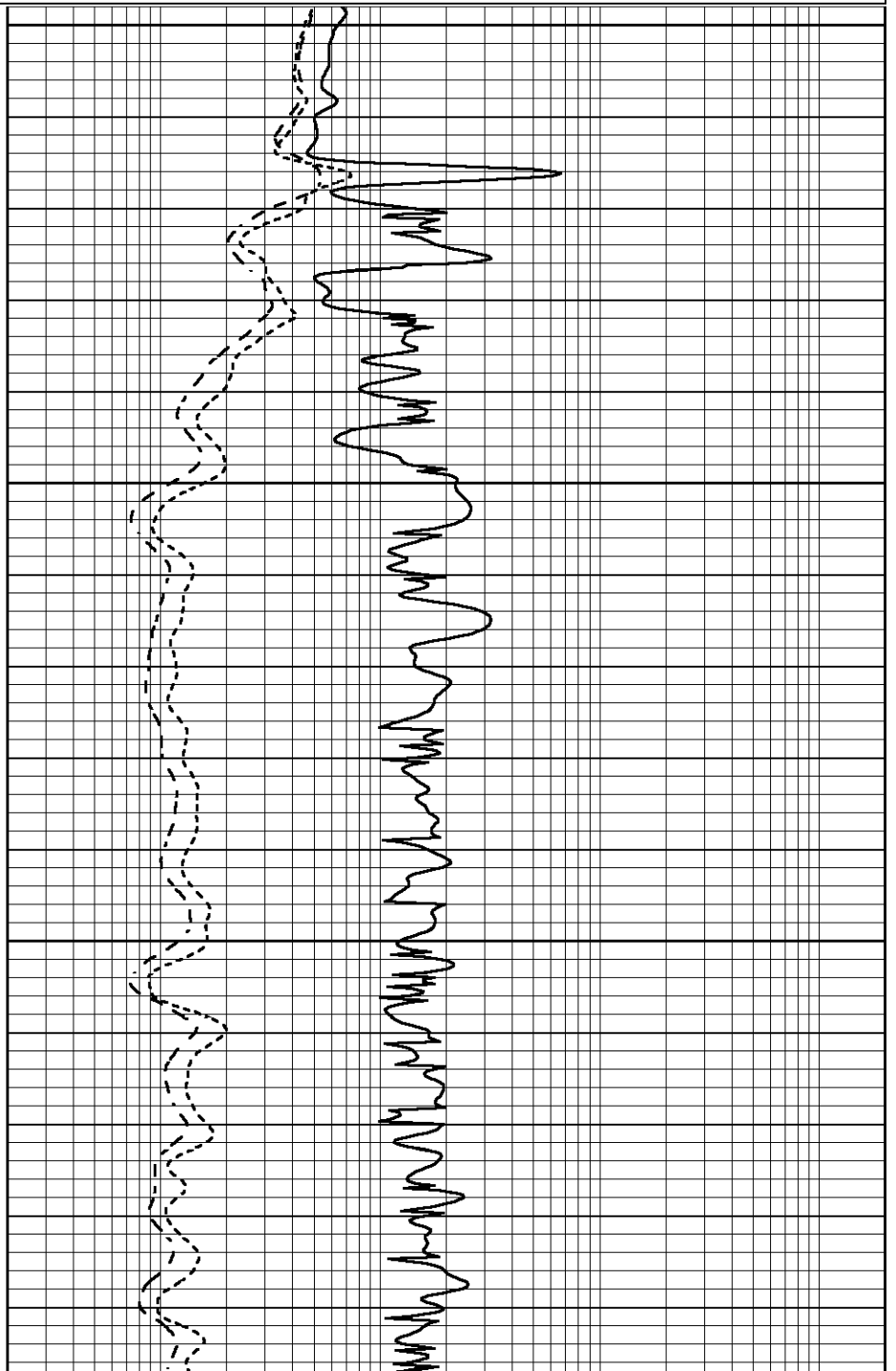
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

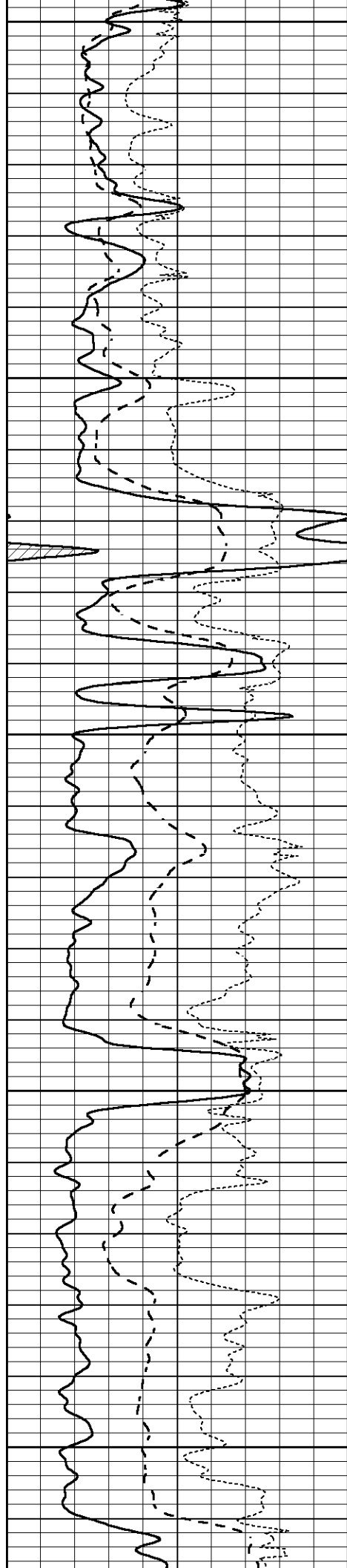


800

850

900





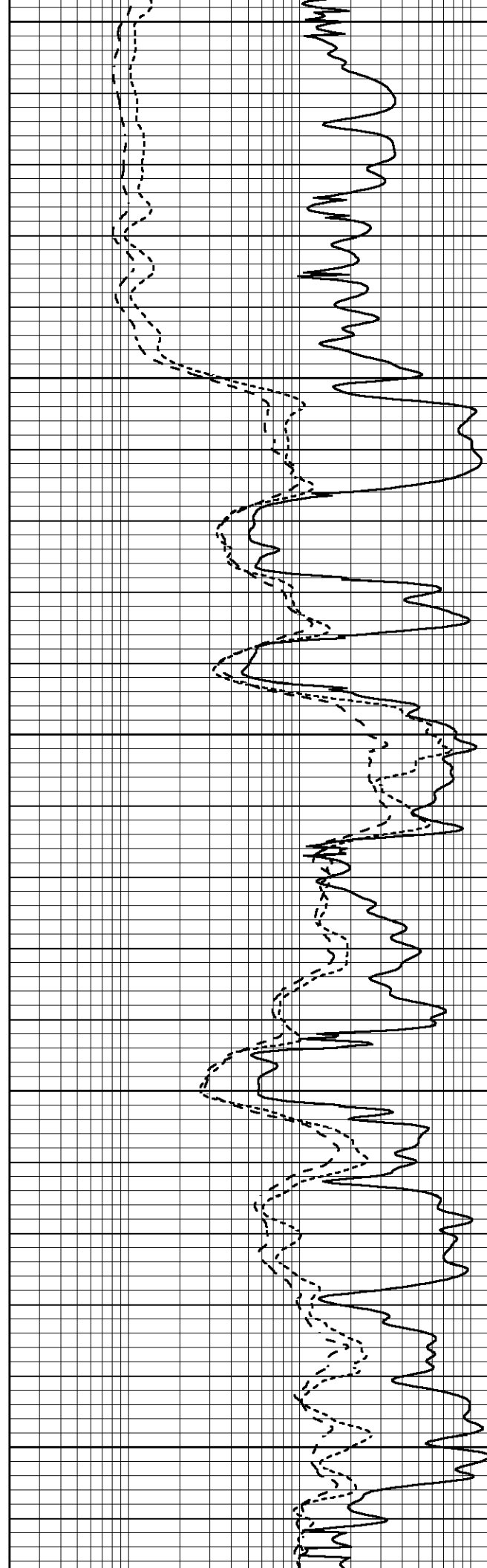
950

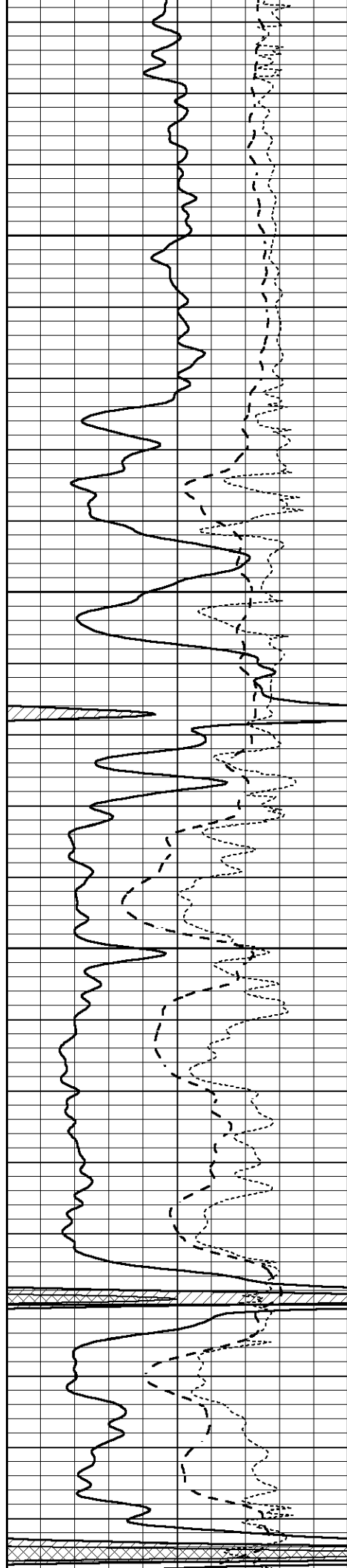
1000

1050

1100

1150



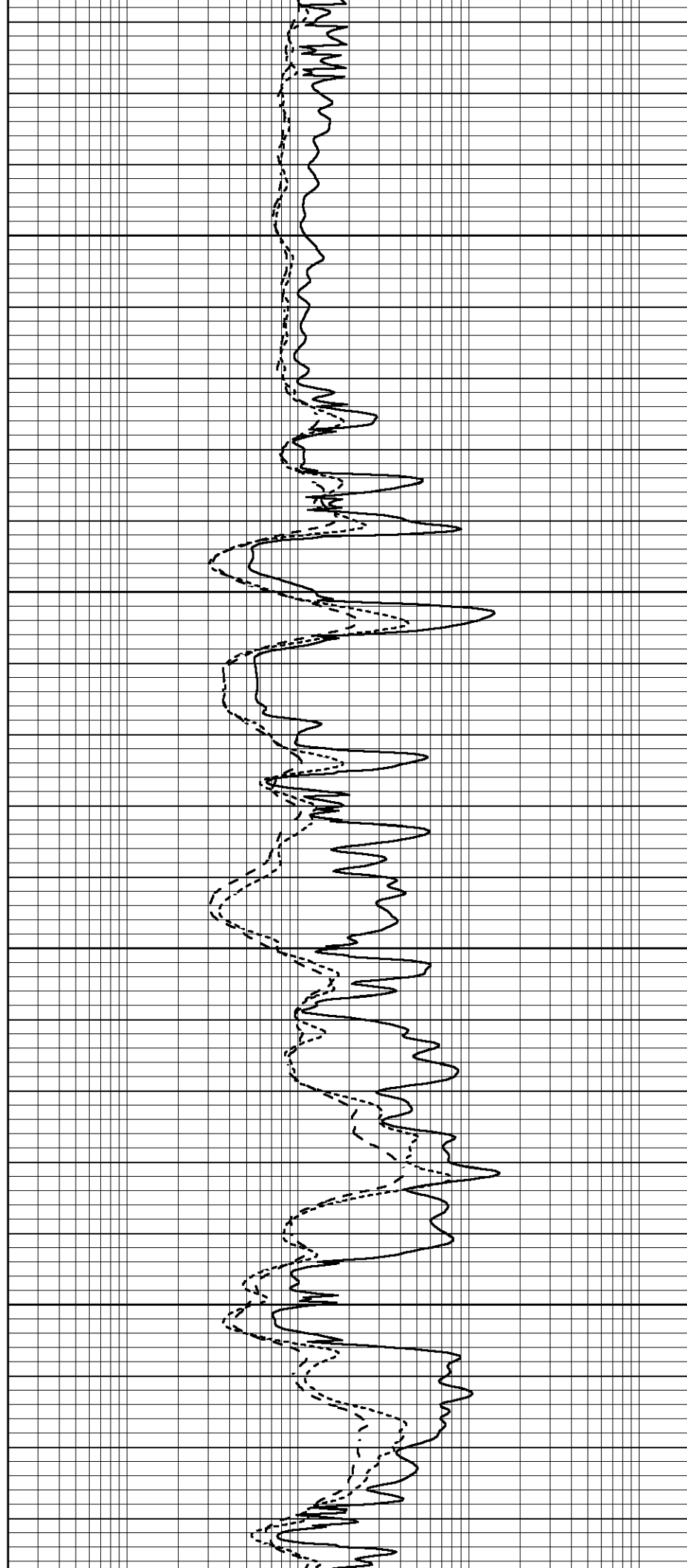


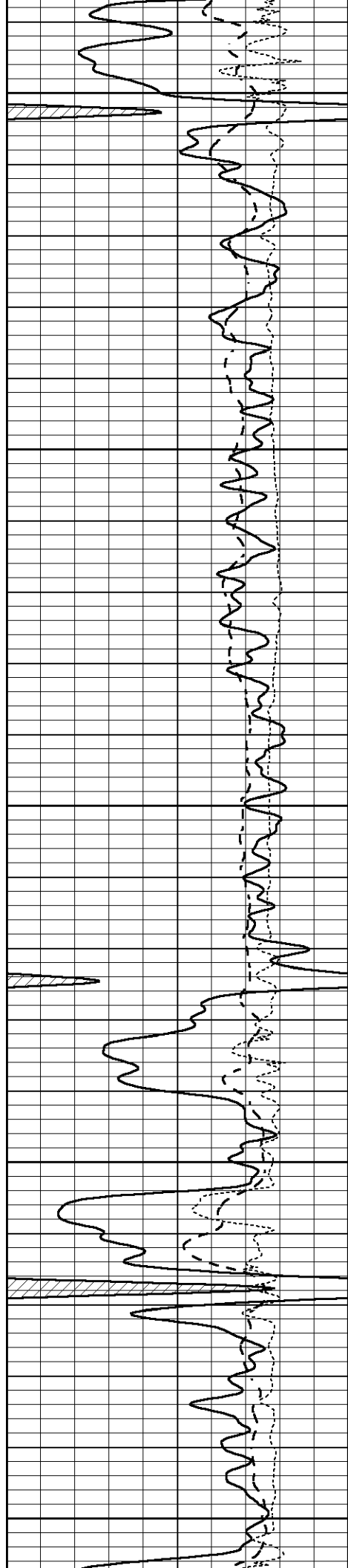
1200

1250

1300

1350





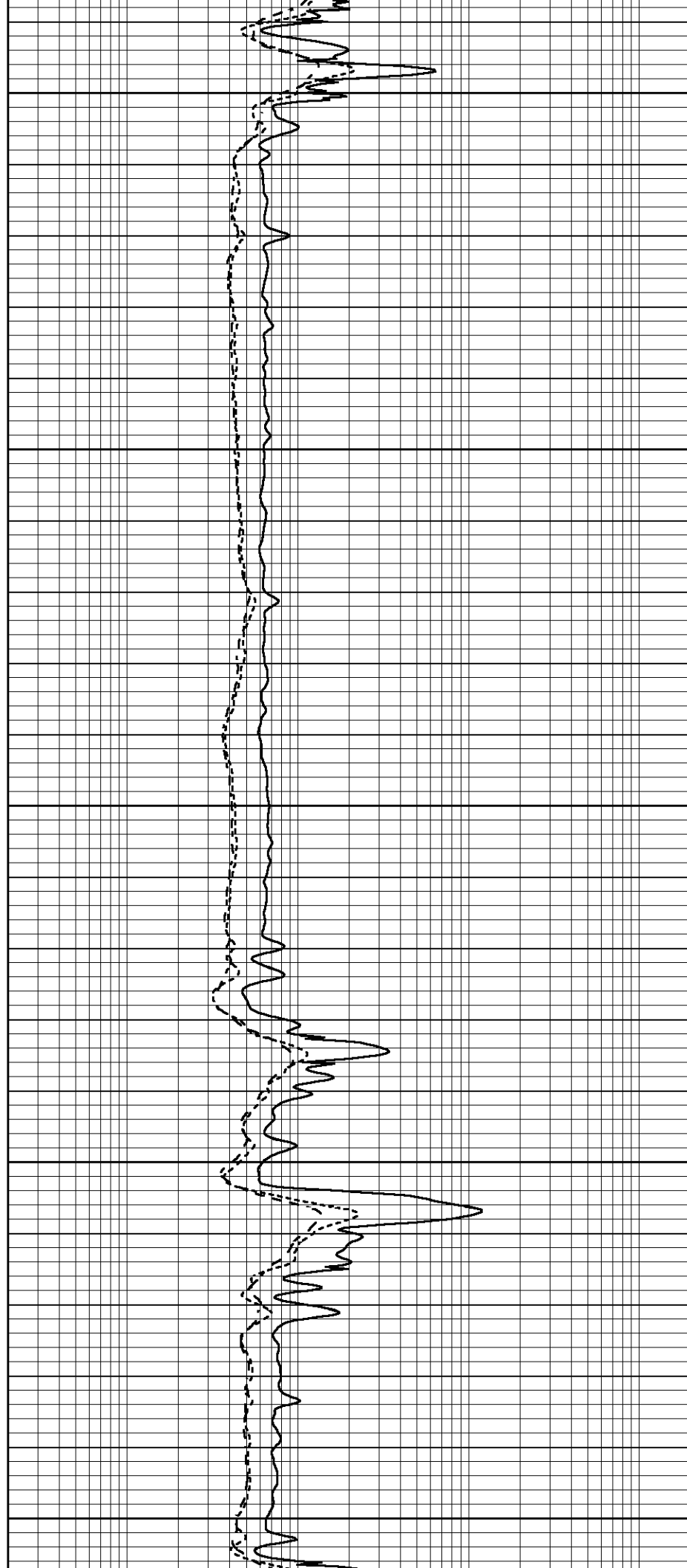
1400

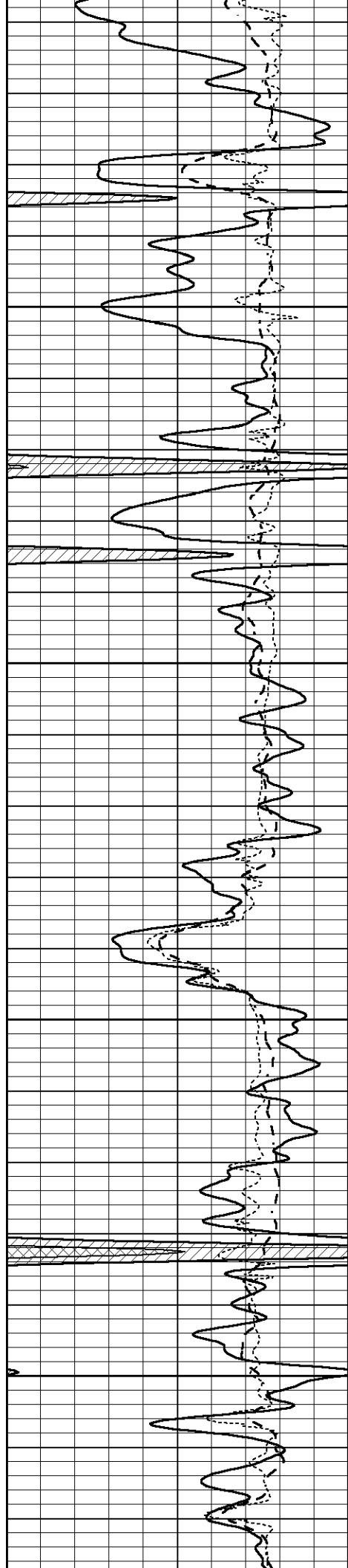
1450

1500

1550

1600



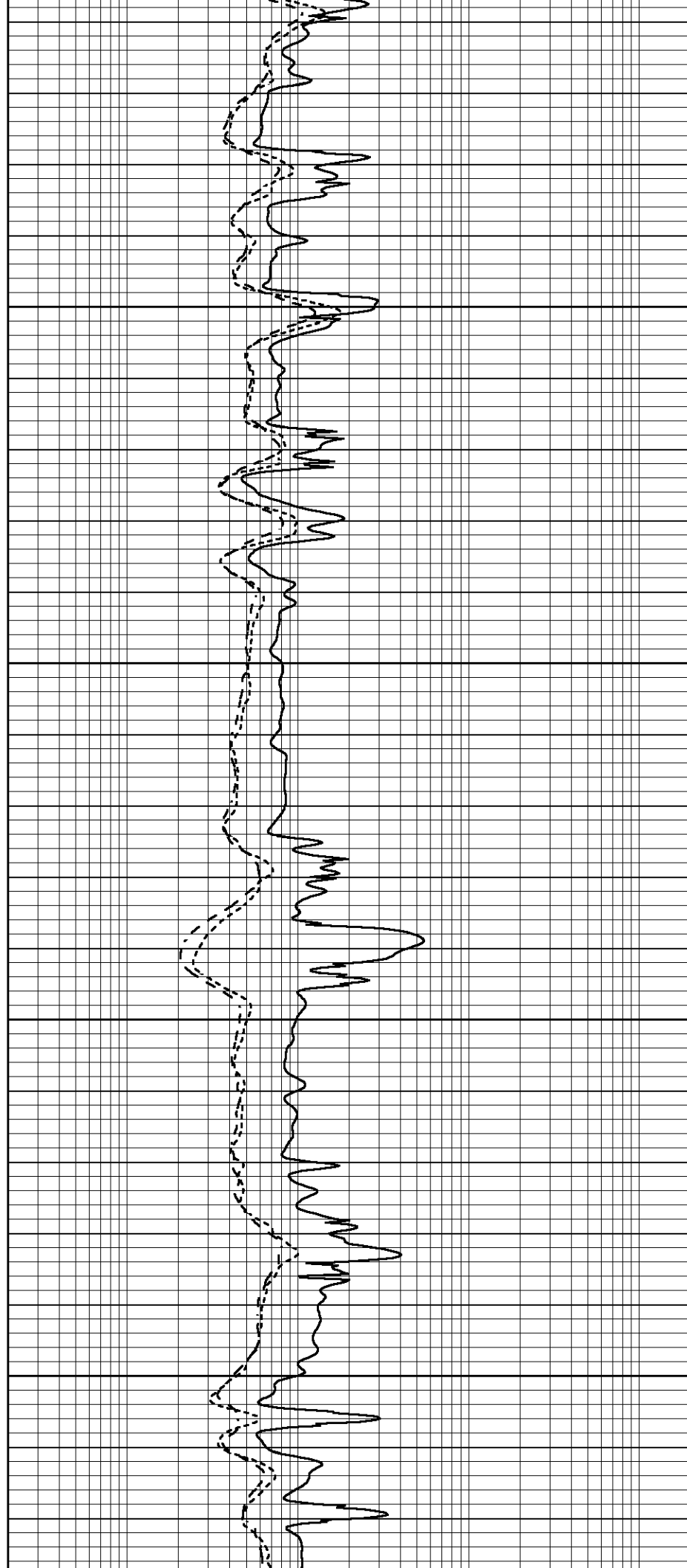


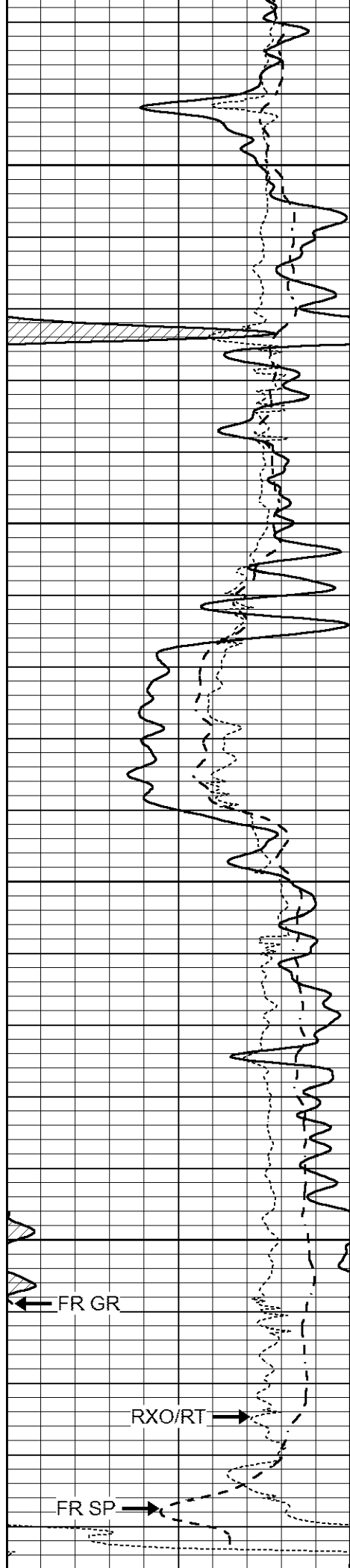
1650

1700

1750

1800





1850

1900

1950

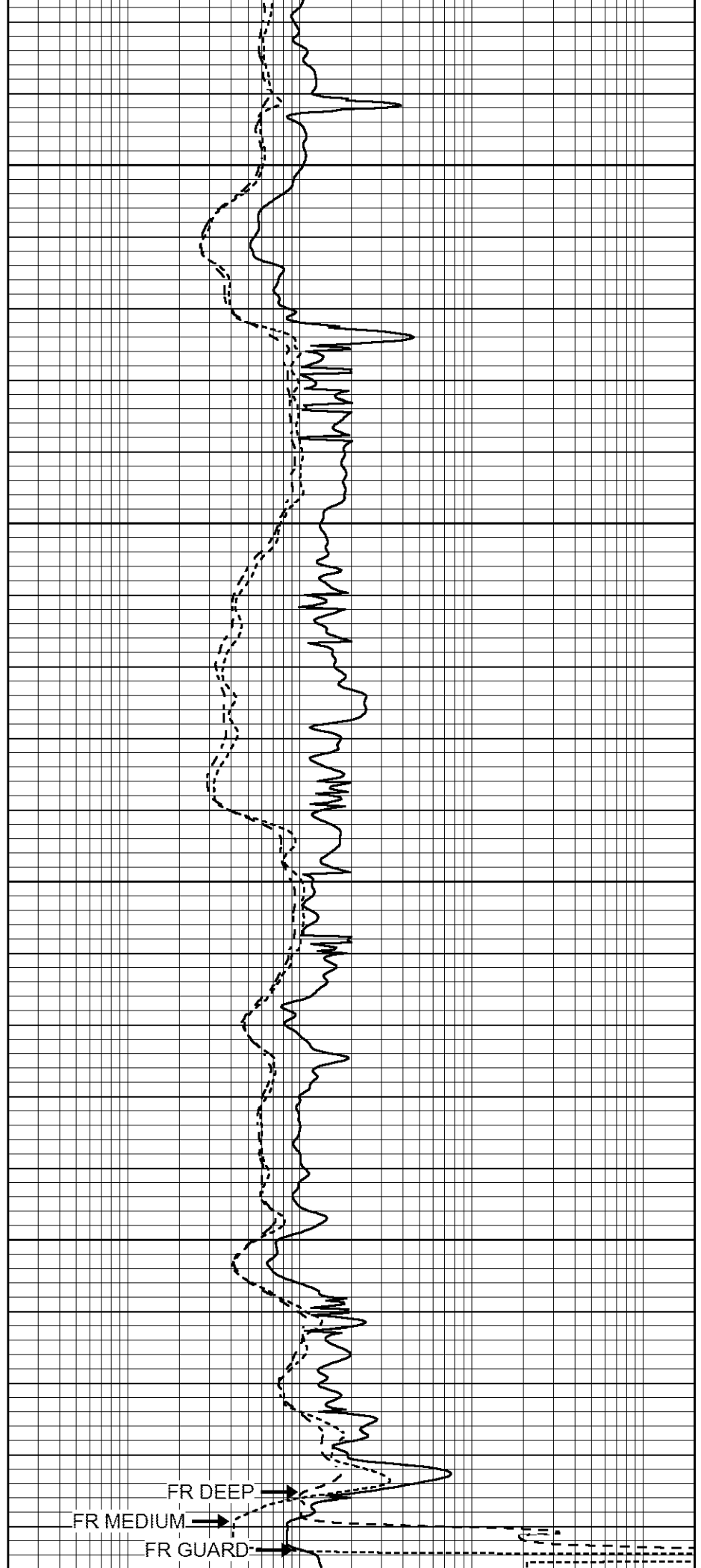
2000

FR GR

RXO/RT

FR SP

LTD 2017



FR DEEP

FR MEDIUM

FR GUARD

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

LTD 2047
2050

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

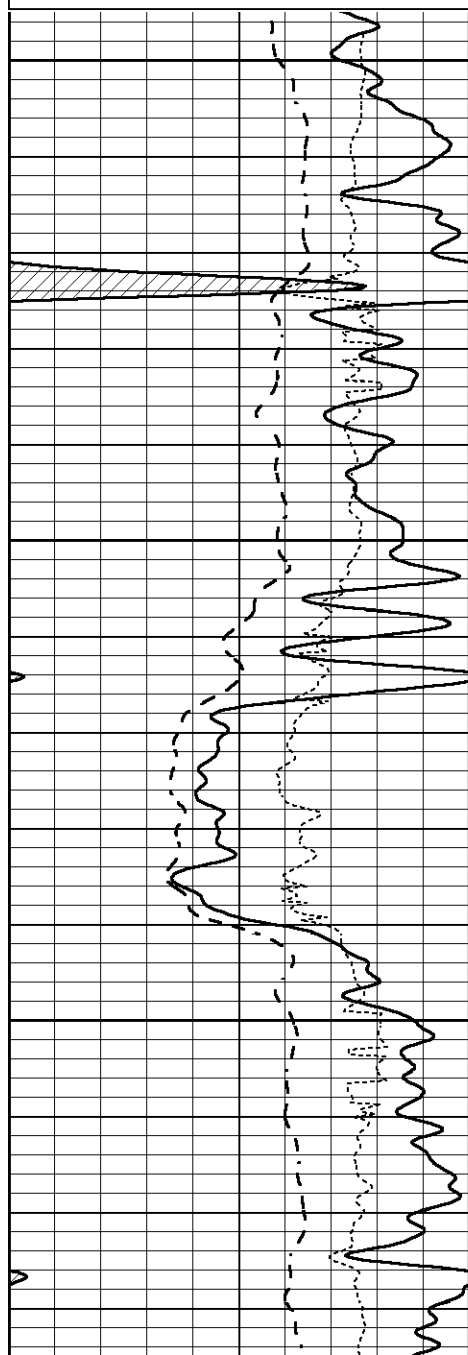


REPEAT SECTION

Database File 6543pe.db
Dataset Pathname pass2.1R
Presentation Format _dil
Dataset Creation Thu Jun 16 18:14:32 2022
Charted by Depth in Feet scaled 1:240

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

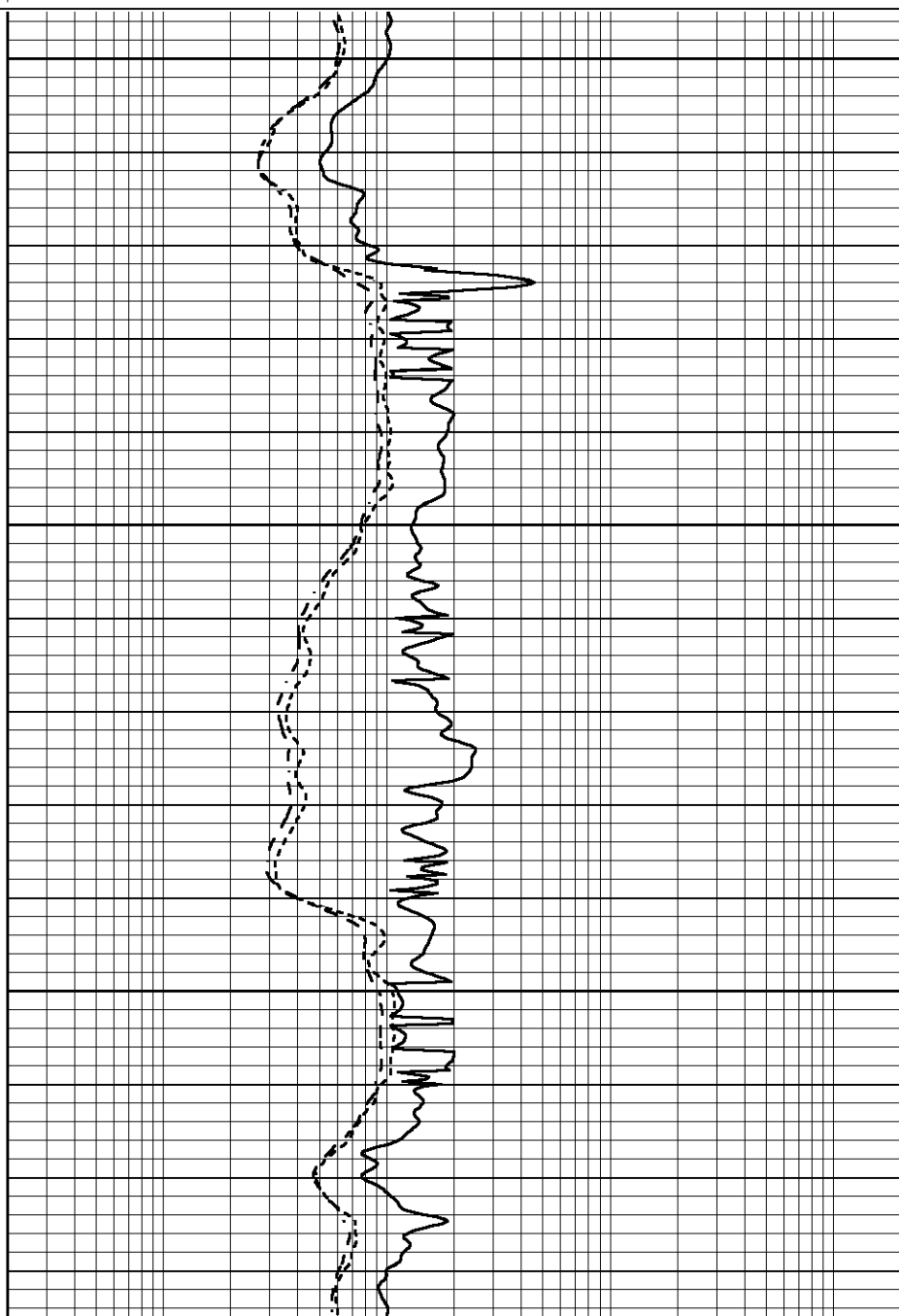
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

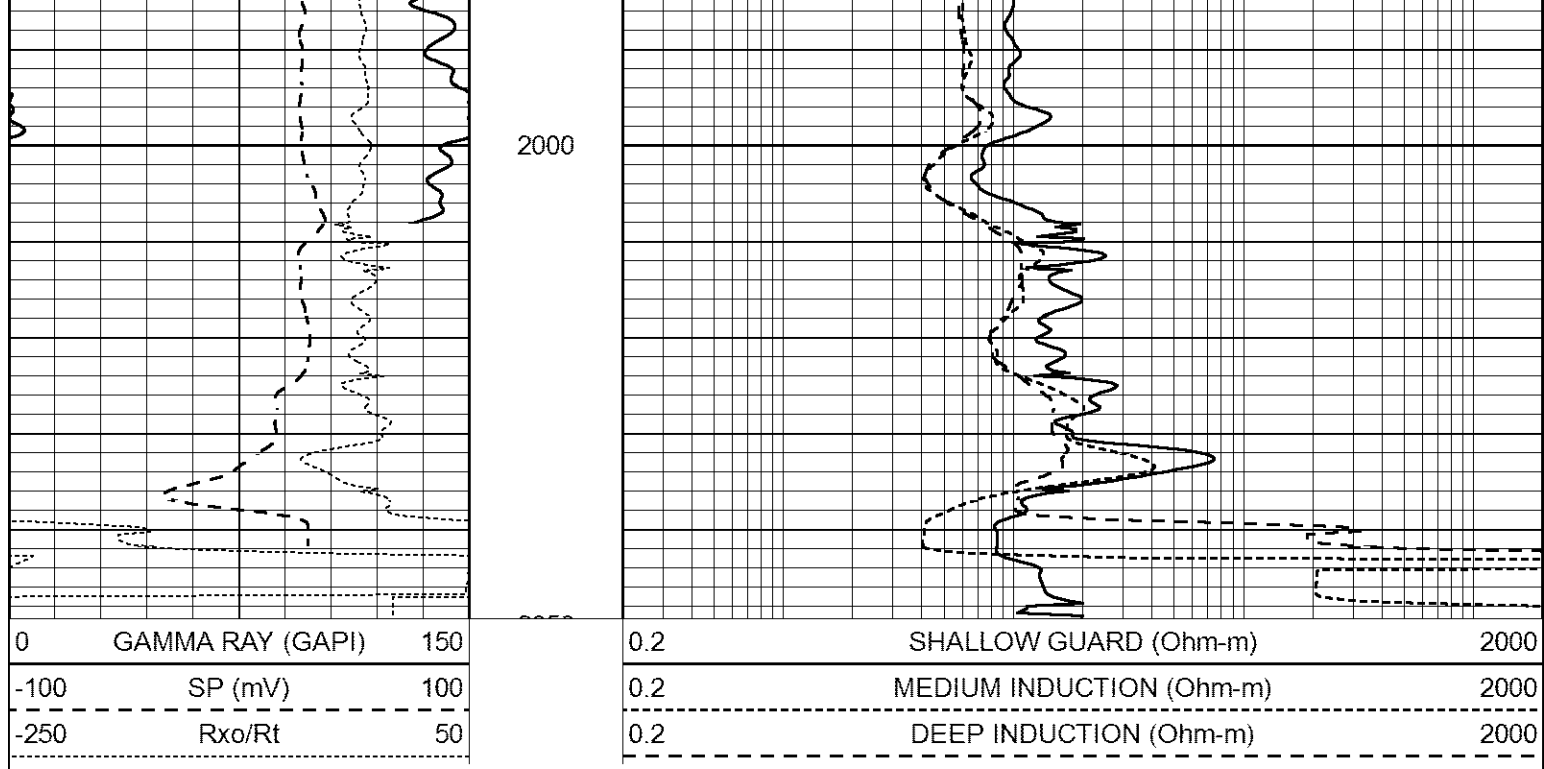


1850

1900

1950





Calibration Report									
Database File	6543pe.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Thu Jun 16 17:54:33 2022								
Dual Induction Calibration Report									
Serial-Model:				FW1410-55-Probe					
Surface Cal Performed:				Sun May 15 19:17:36 2022					
Downhole Cal Performed:				Tue Feb 19 11:44:24 2019					
After Survey Verification Performed:				Tue Feb 19 11:44:27 2019					
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	650.000	-2.000	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-16.000	
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		m'	b'	
Deep	0.000	0.000	mmho/m	0.000	395.917	mmho/m	1.000	0.000	

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								
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Master Calibration				Performed: Mon May 23 14:22:47 2022				
	Background		Aluminum		Magnesium			
Window 1	511.07		5437.36		23664.68	cps		
Window 2	40.76		1220.39		5745.34	cps		
Window 4	223.73		1233.64		5301.27	cps		
Window 5	531.57		7878.13		15405.81	cps		
Window 6	48.52		1245.17		2497.97	cps		
Window 8	246.02		2578.14		4974.07	cps		
Bulk Density	-		2.6020		1.6830	g/cc		
Pe	-		3.0000		2.5070	b/e		
LS Alpha:	: -1.8413		SS Alpha:	: -0.8034		LS CPE:	: 1.1579	
LS Beta:	: 124864.8423		SS Beta:	: 19537.1506		SS CPE:	: 1.6371	

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: Mon May 23 14:22:47 2022				
Results	Readings		References (in)					
	Low	High	Low	High		Gain		Offset
	8210.8	12139.3	7.0	14.0		0.0		-7.6

Before Survey Caliper Verification				Performed:				
	Reference		Reading					
Caliper (in)								

After Survey Caliper Verification				Performed:				
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	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:	7	
Tool Model:	Probe1	
Performed:	Thu May 26 08:56:46 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps