

DUAL INDUCTION LOG

Company	PHILLIPS EXPLORATION CO.	Company	PHILLIPS EXPLORATION COMPANY, L.C.
Well	GALEN GEYER #5	Well	GALEN GEYER #5
Field	LITTLECHILD	Field	LITTLECHILD
County	TREGO	County	TREGO
State	KANSAS	State	KANSAS
Location:	API # : 15-195-23165-0000	Other Services CDL/CNL/PE MEL	
Permanent Datum	800' FSL & 1660' FWL	Elevation	
Log Measured From	SEC 13 TWP 11S RGE 24W SE - NW - SE - SW	K.B. 2404 D.F. 2402 G.L. 2393	
Drilling Measured From	GROUND LEVEL		
	KELLY BUSHING 11' A.G.L.		
	KELLY BUSHING		
Date	9/3/23		
Run Number	ONE		
Depth Driller	4040		
Depth Logger	4044		
Bottom Logged Interval	4042		
Top Log Interval	00		
Casing Driller	8 5/8"@222'		
Casing Logger	222		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,900 PPM	
Density / Viscosity	9.1/55		
pH / Fluid Loss	11.0/5.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10@87F		
Rmf @ Meas. Temp	.825@87F		
Rmc @ Meas. Temp	1.32@87F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.825@116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:00 A.M.		
Maximum Recorded Temperature	116F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	PAT DEENIHAN		

<<< Fold Here >>>

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.

15-195-23165-0000

Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395

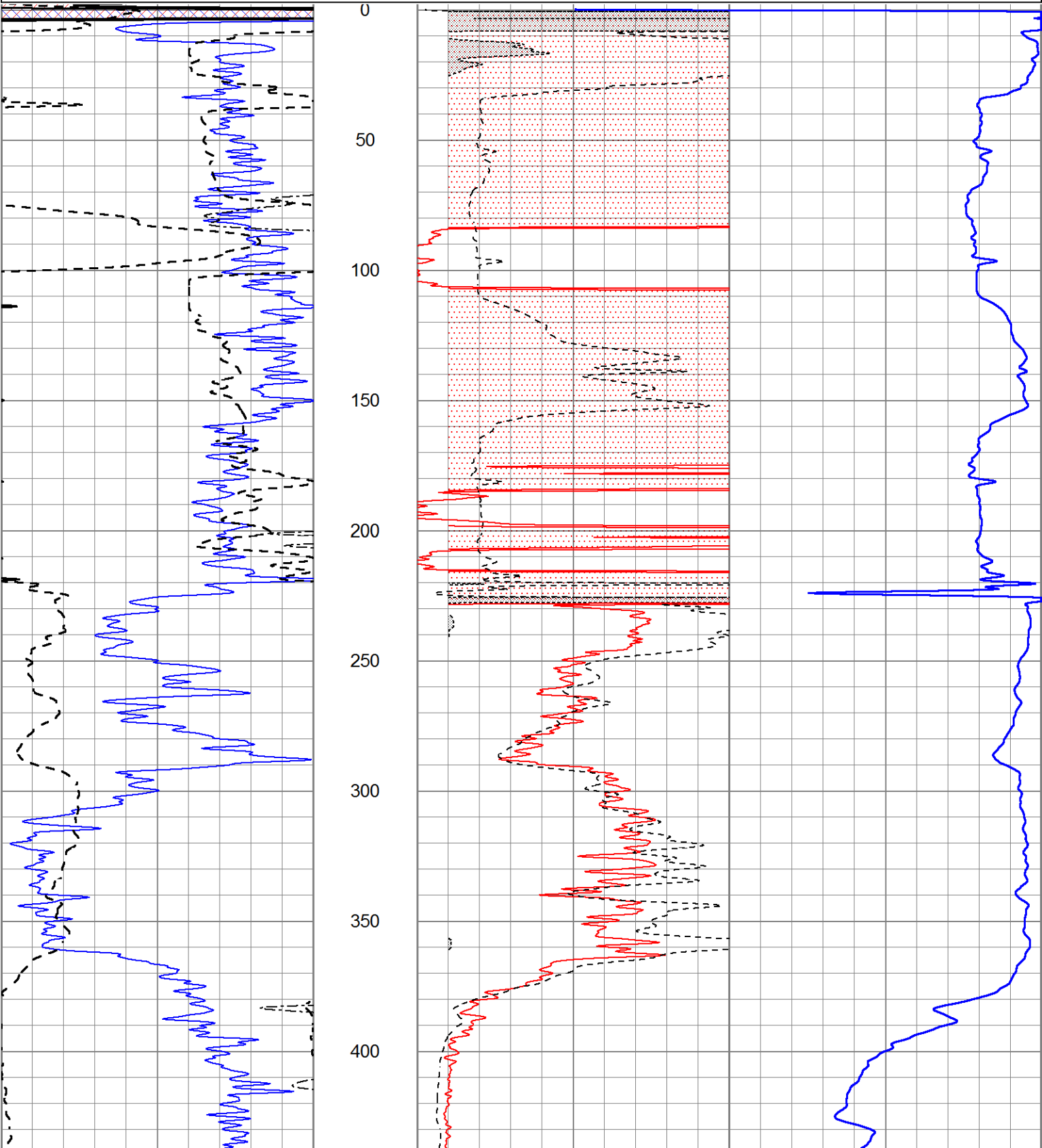
DIRECTIONS

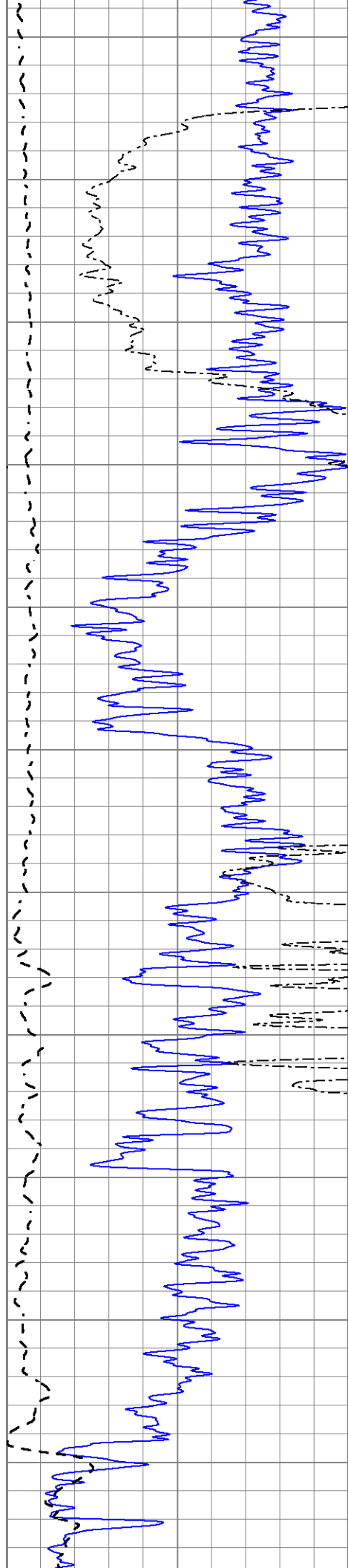
WAKEENEY, KS., 5N. ON HWY 283 TO "RD. B", 4W. TO "RD. 220", 3/4S. VEER LEFT @TANK BATTERY, FOLLOW LEASE RD. TO SECOND TANK BATTERY THEN TAKE TRAIL SOUTH AND BACK WEST



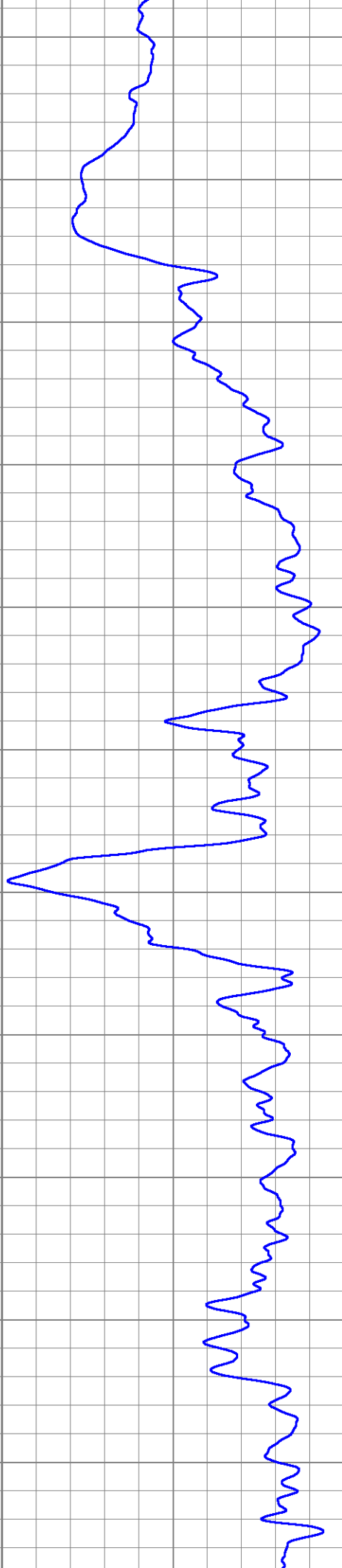
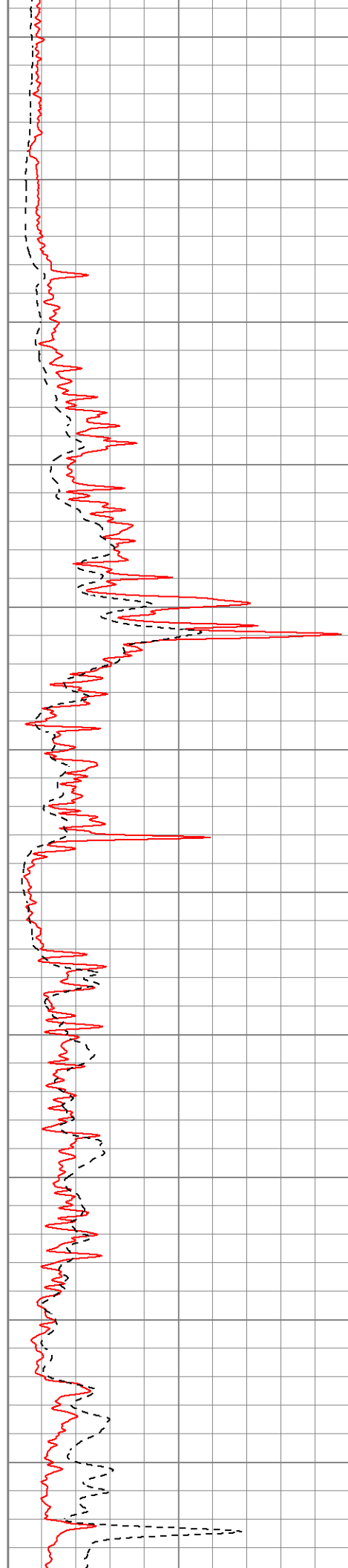
MAIN SECTION

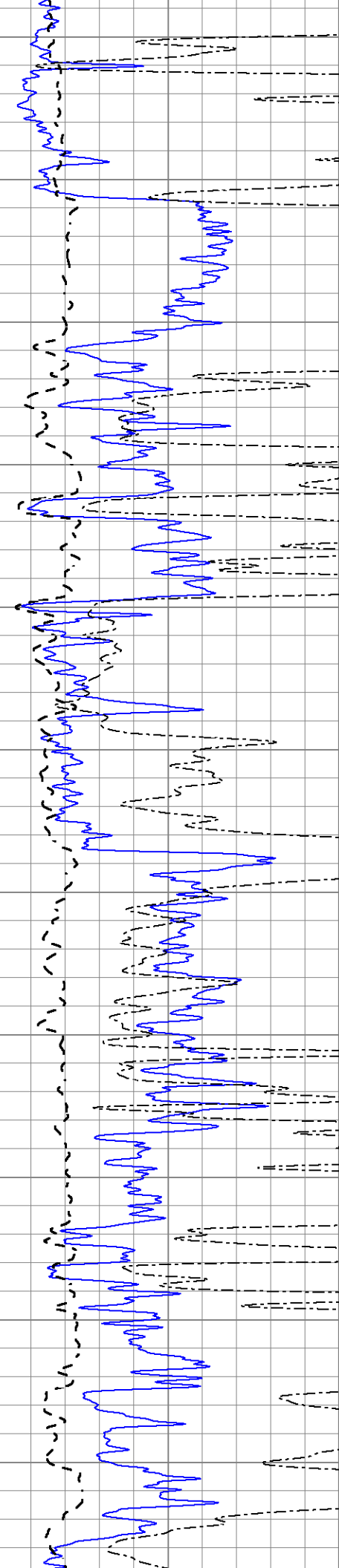
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



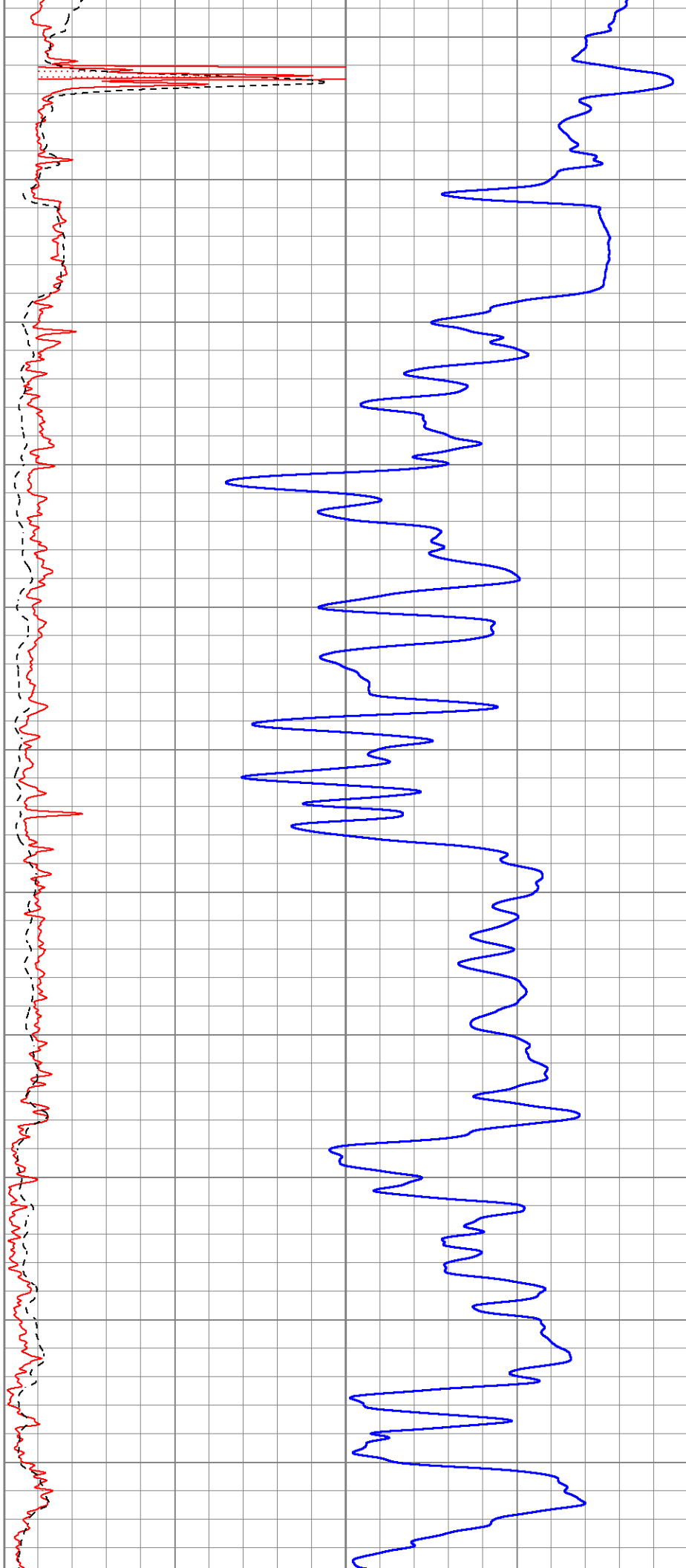


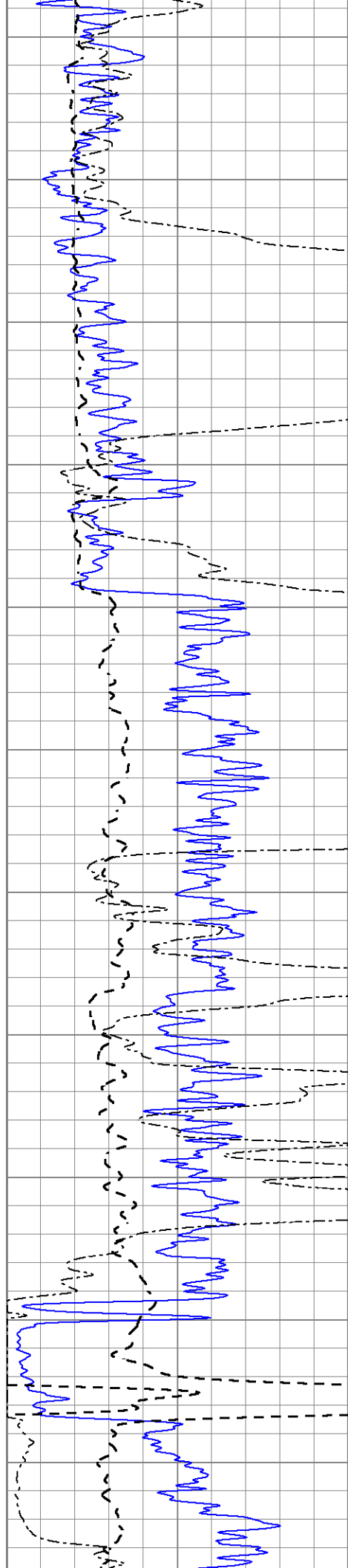
450
500
550
600
650
700
750
800
850
900
950





1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500





1550

1600

1650

1700

1750

1800

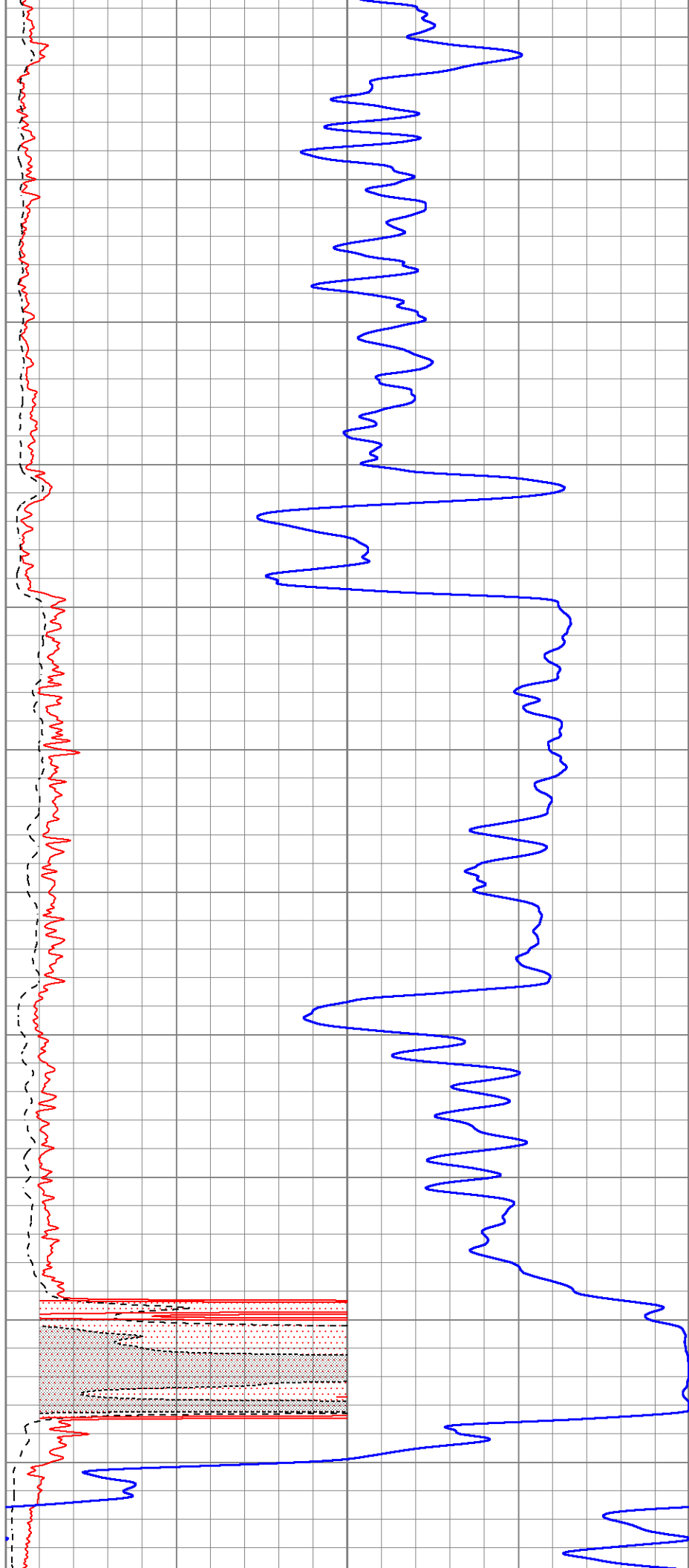
1850

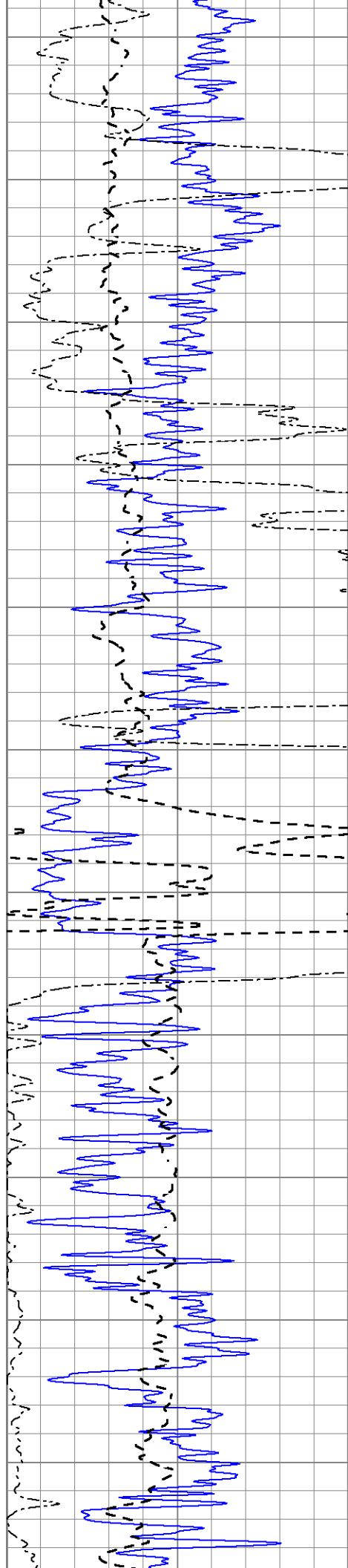
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

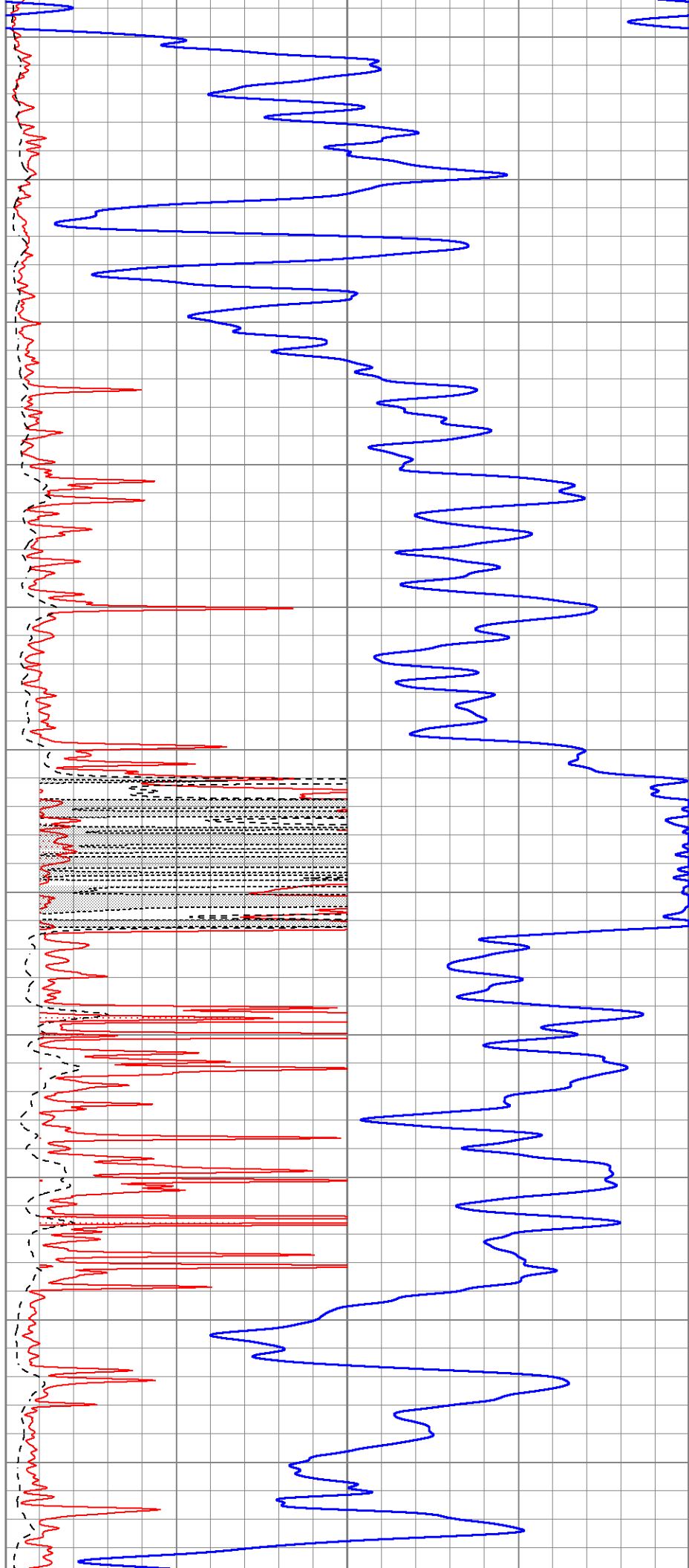
2400

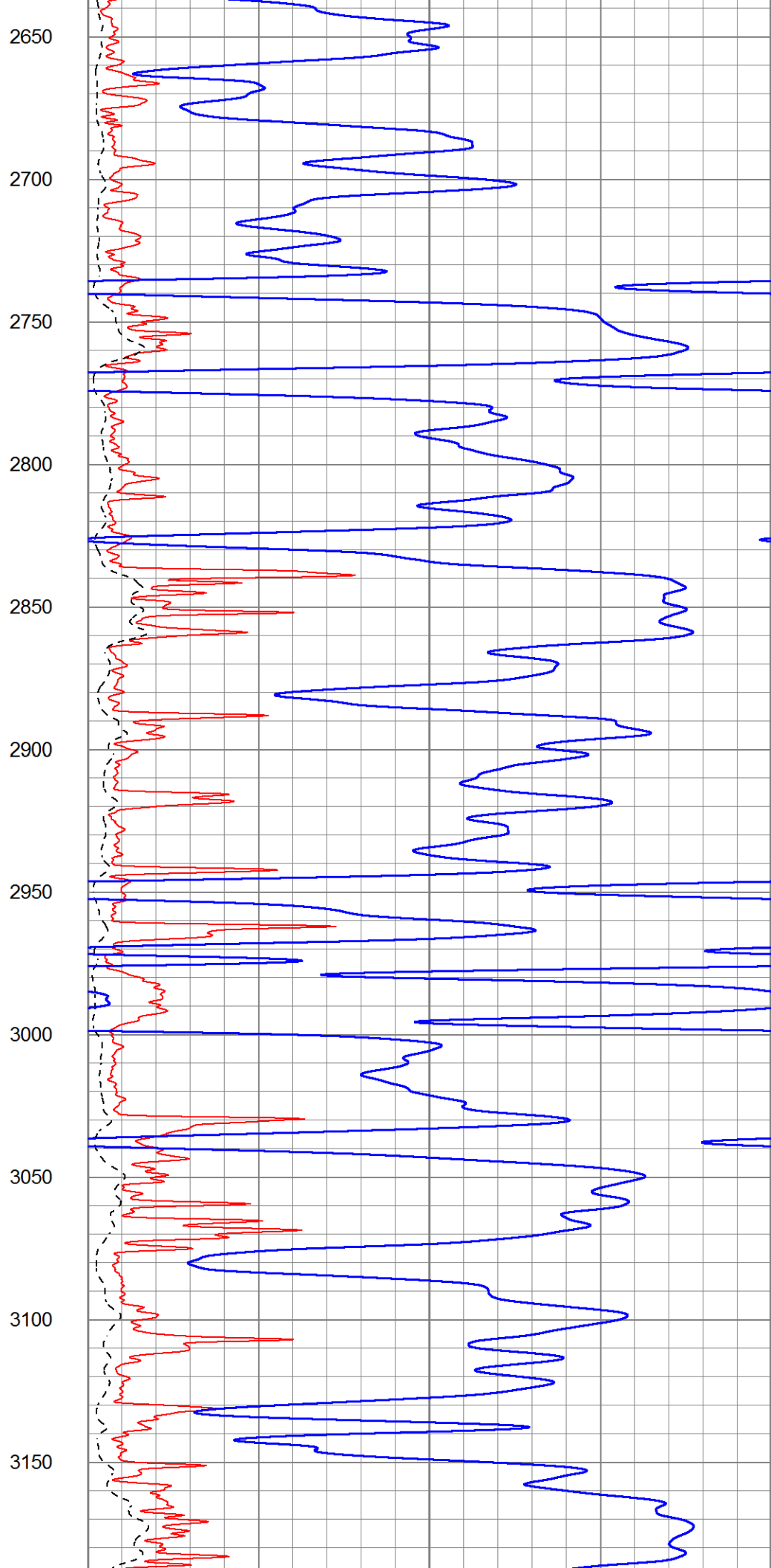
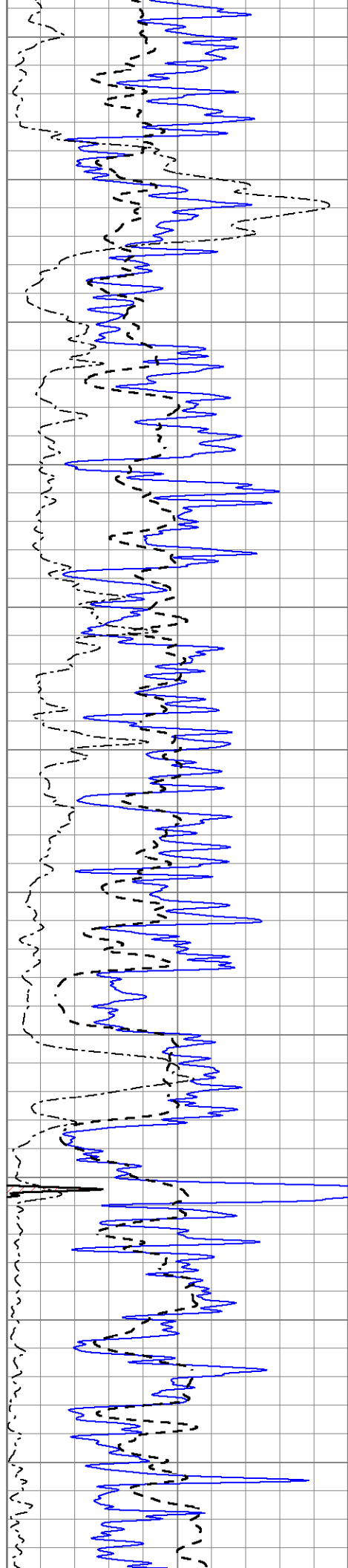
2450

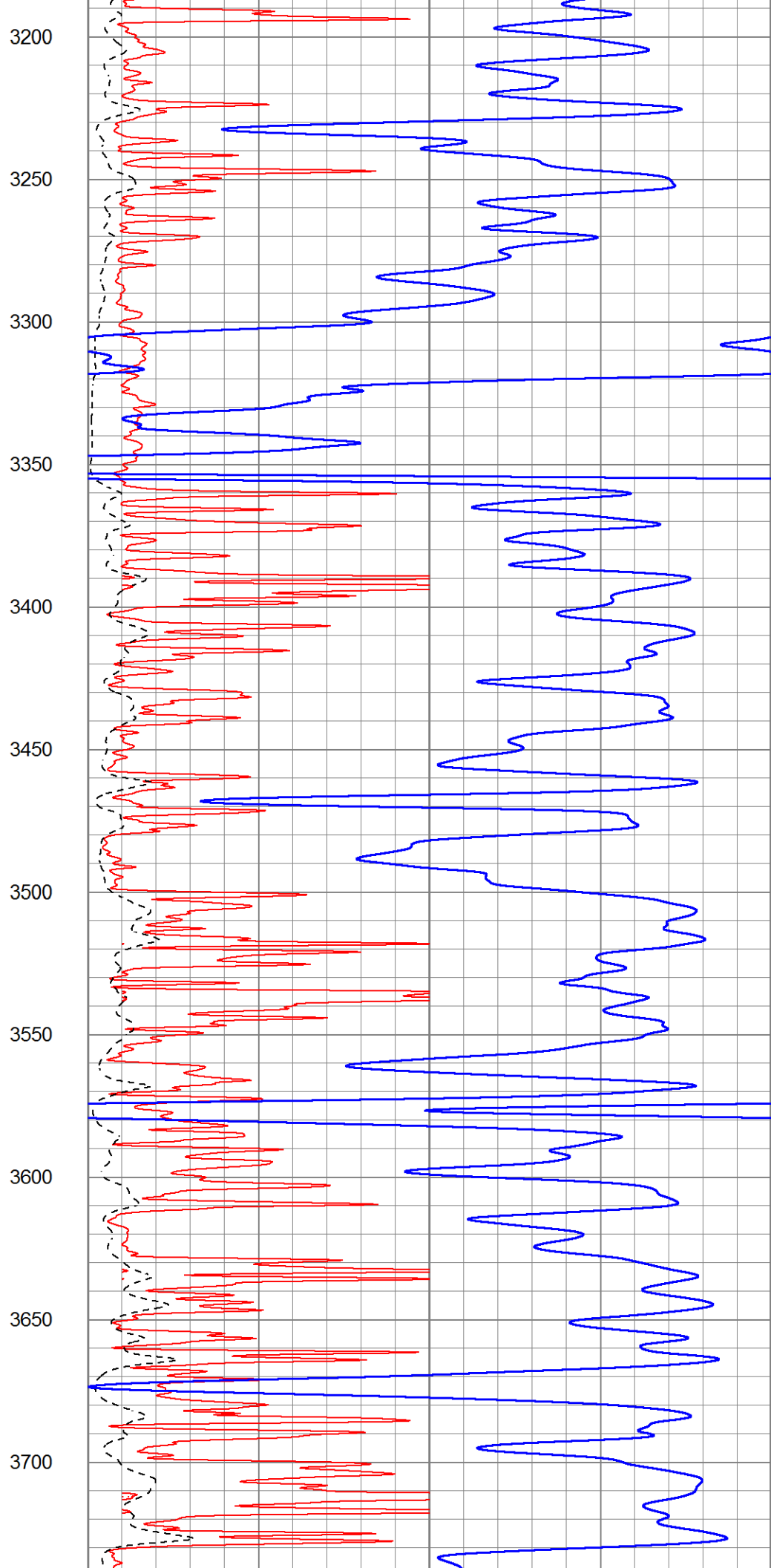
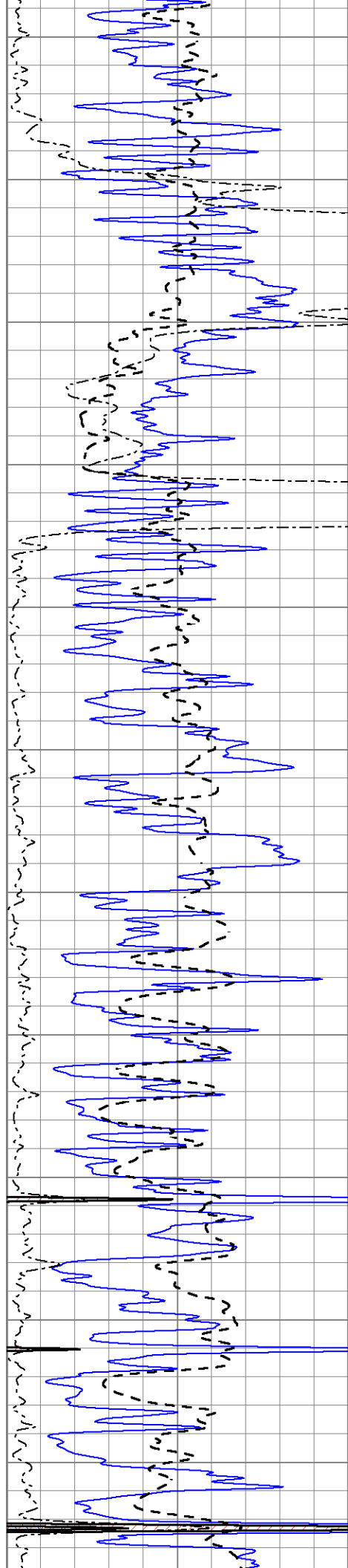
2500

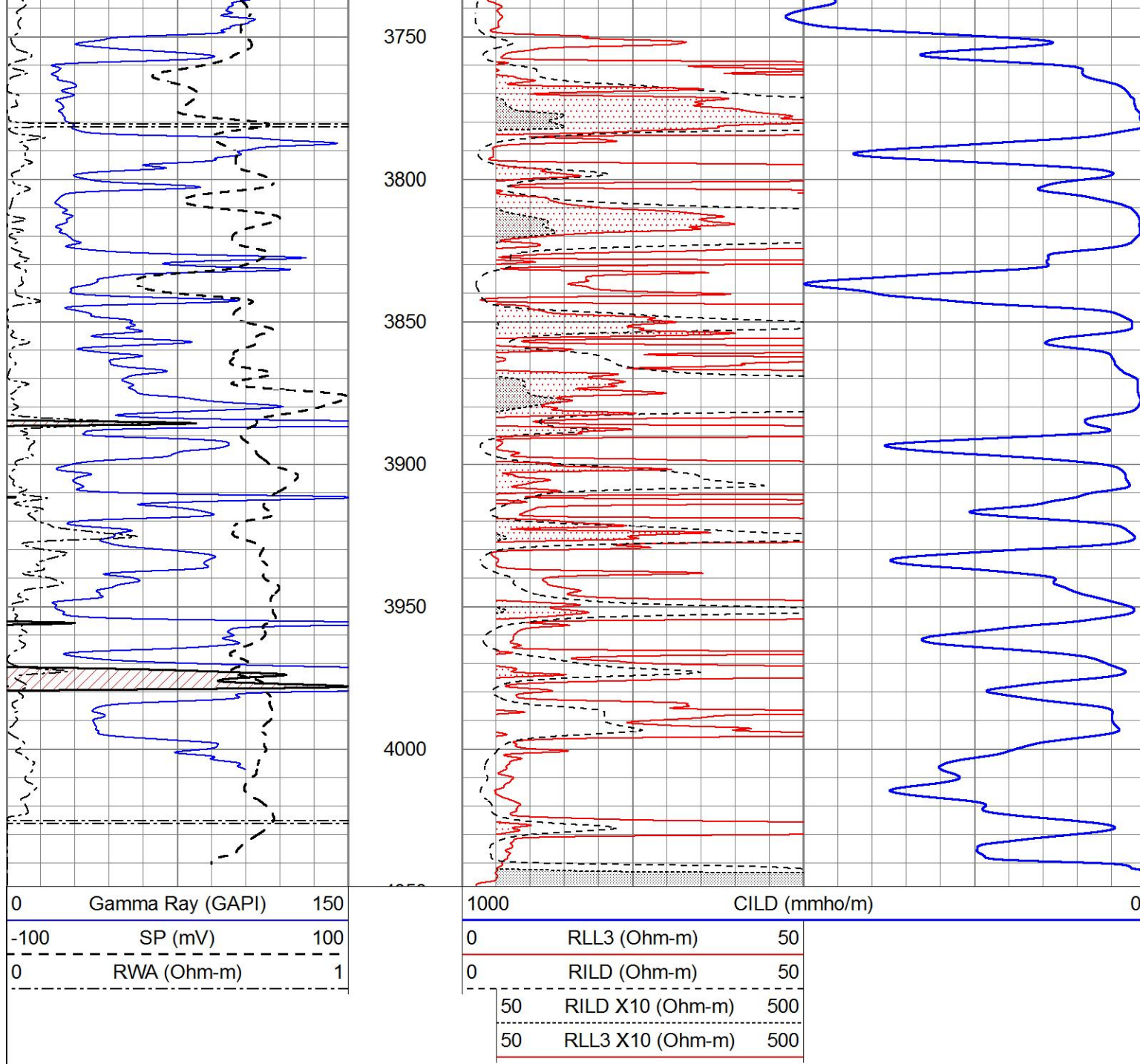
2550

2600





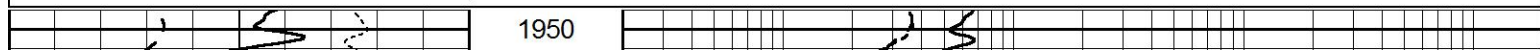


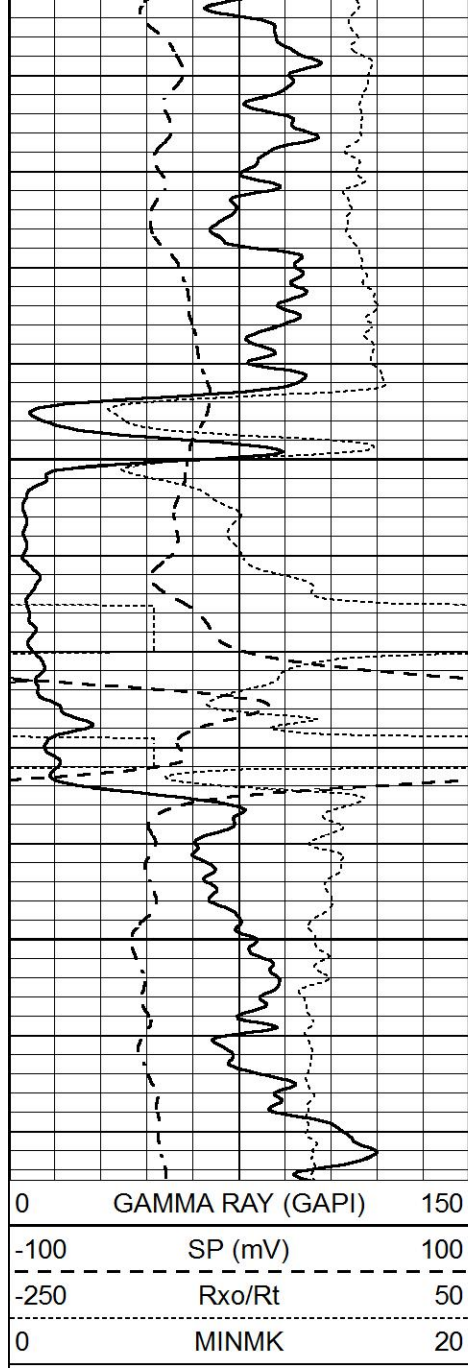


ANHYDRITE

Database File 8206pe.db
 Dataset Pathname pass3.2A
 Presentation Format _dil
 Dataset Creation Sun Sep 03 07:48:58 2023
 Charted by Depth in Feet scaled 1:240

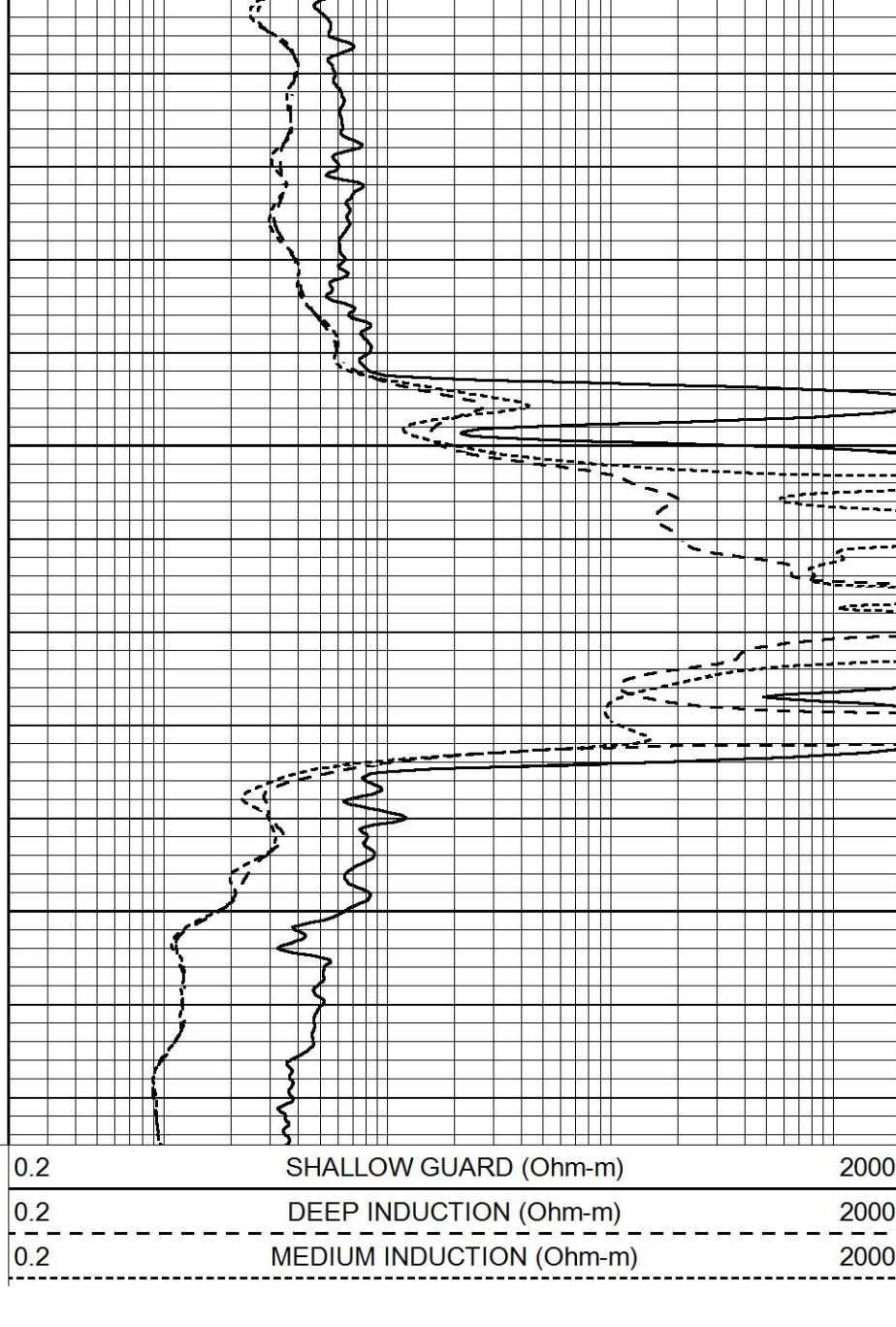
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





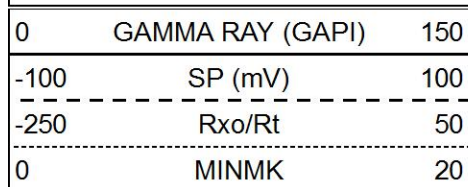
2000

2050

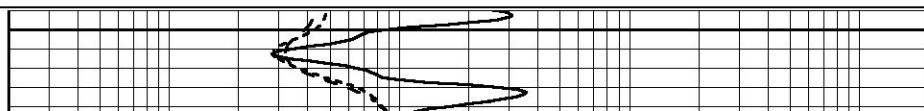
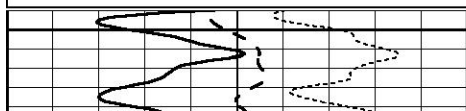
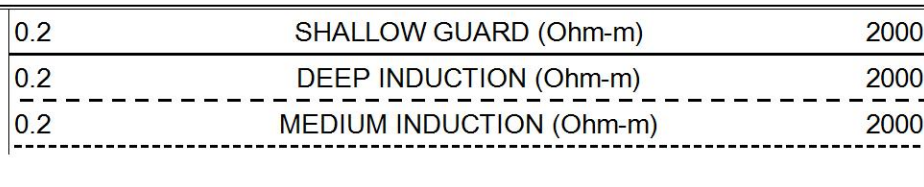


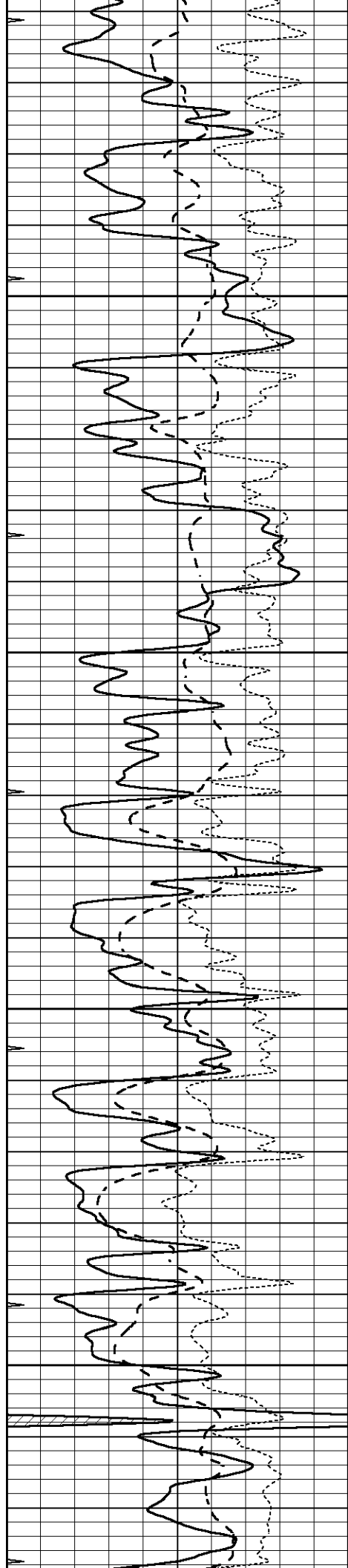
MAIN SECTION

Database File 8206pe.db
 Dataset Pathname pass3.2M
 Presentation Format _dil
 Dataset Creation Sun Sep 03 07:48:46 2023
 Charted by Depth in Feet scaled 1:240



3400



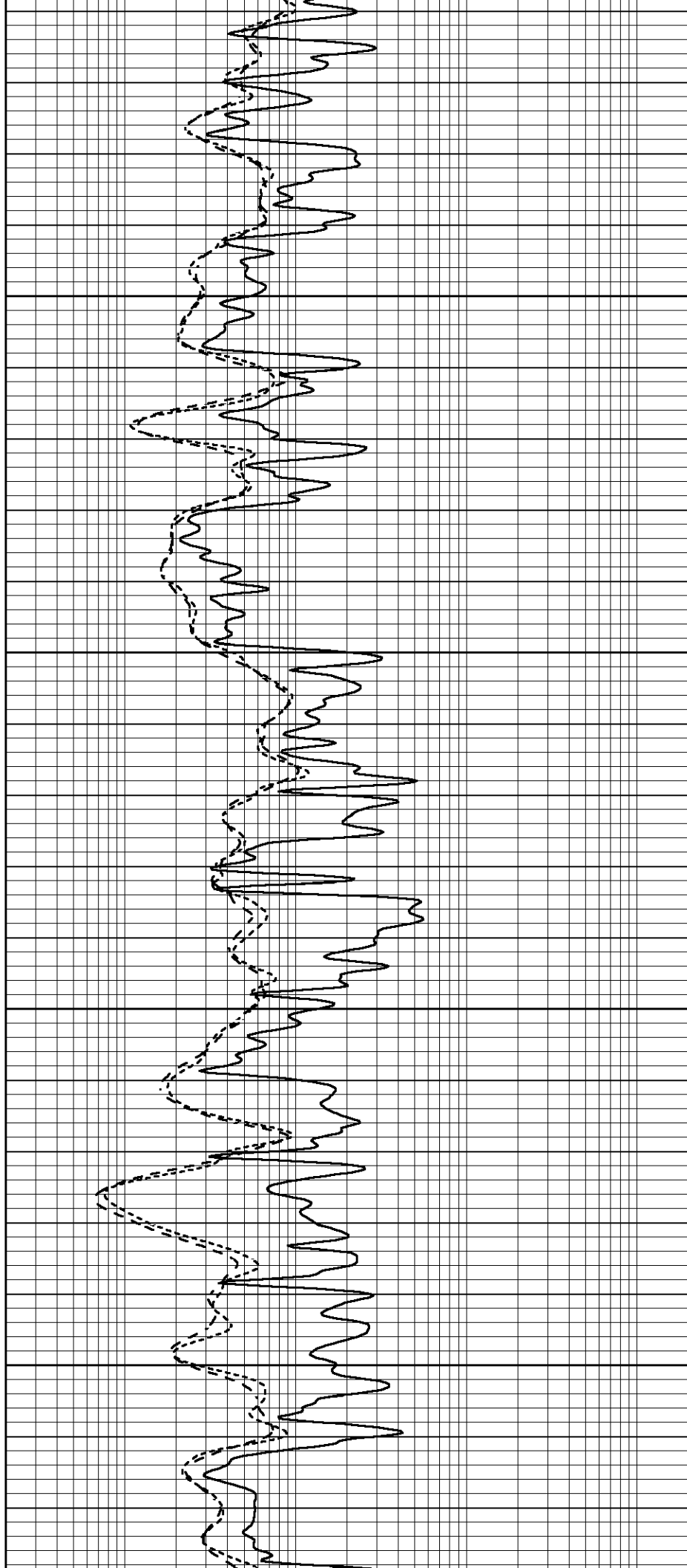


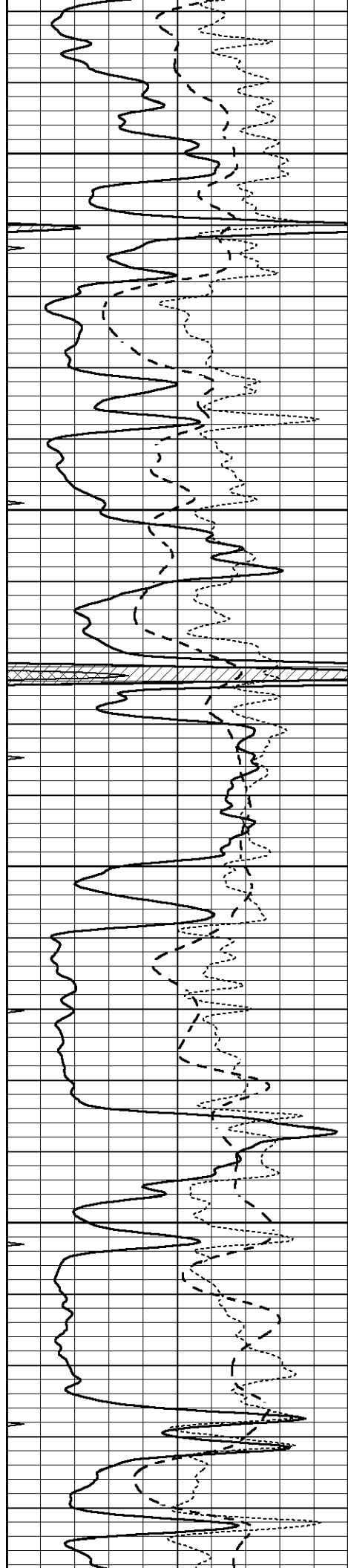
3450

3500

3550

3600



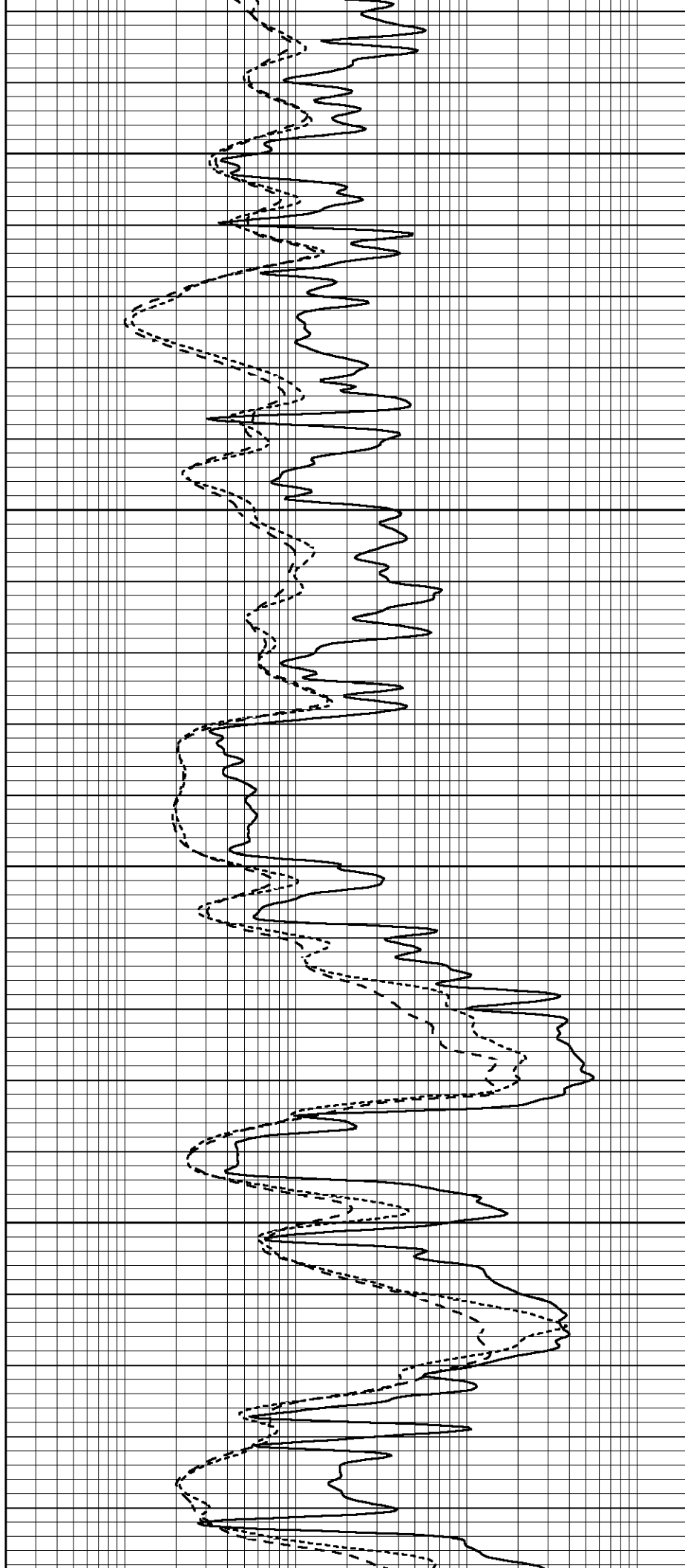


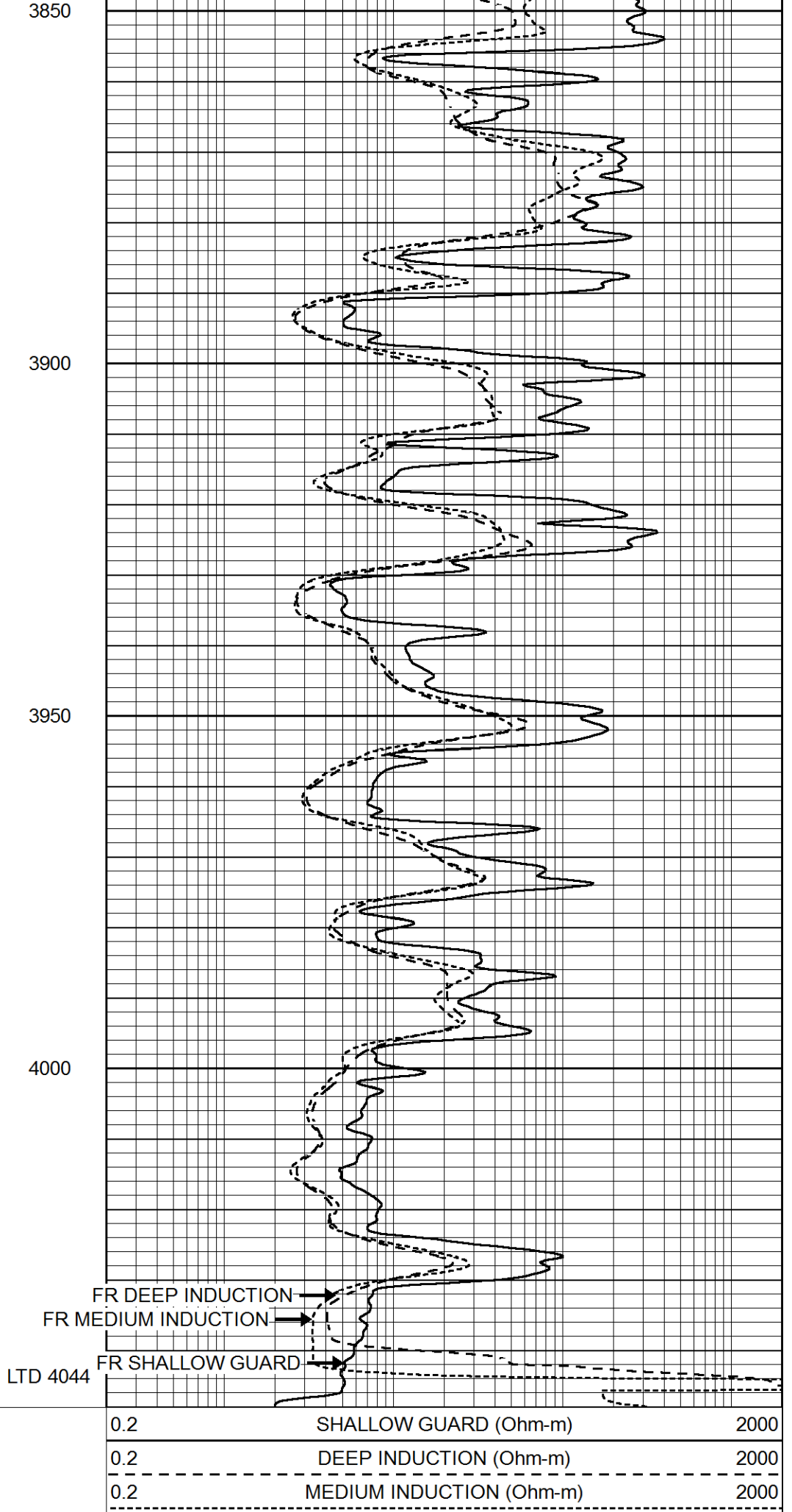
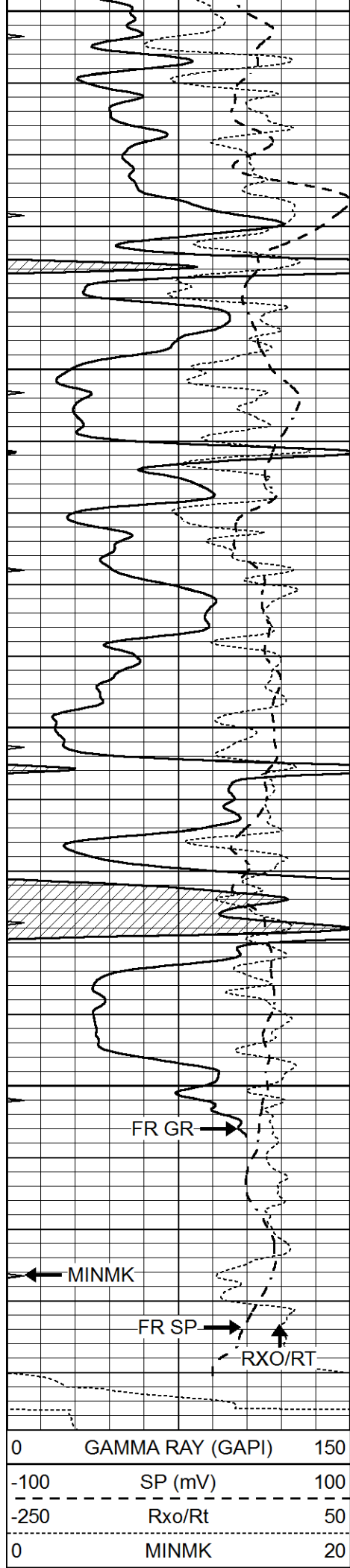
3650

3700

3750

3800





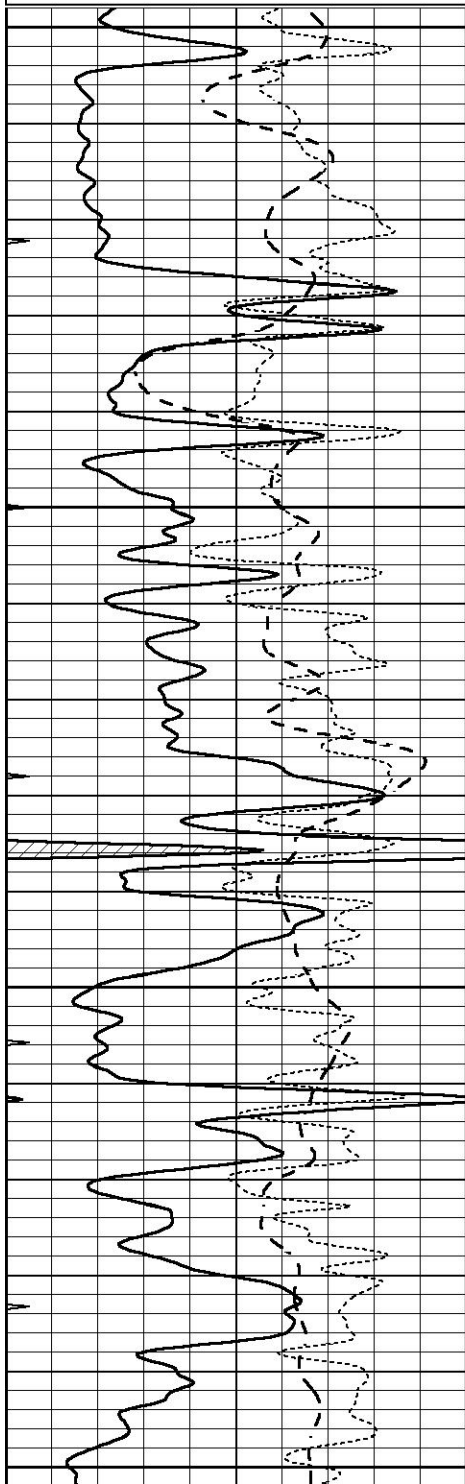


REPEAT SECTION

Database File 8206pe.db
Dataset Pathname pass2.1R
Presentation Format _dil
Dataset Creation Sun Sep 03 07:56:30 2023
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

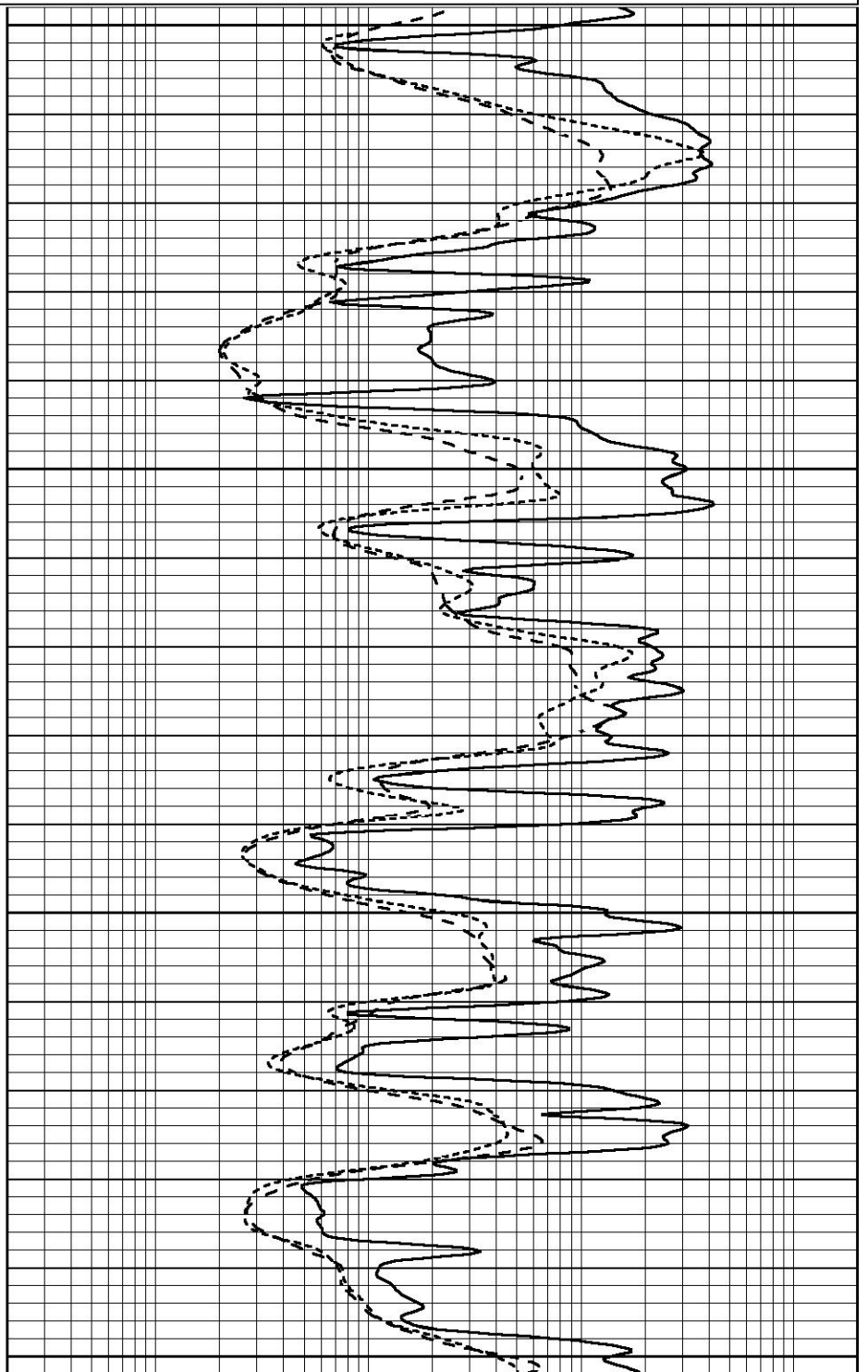


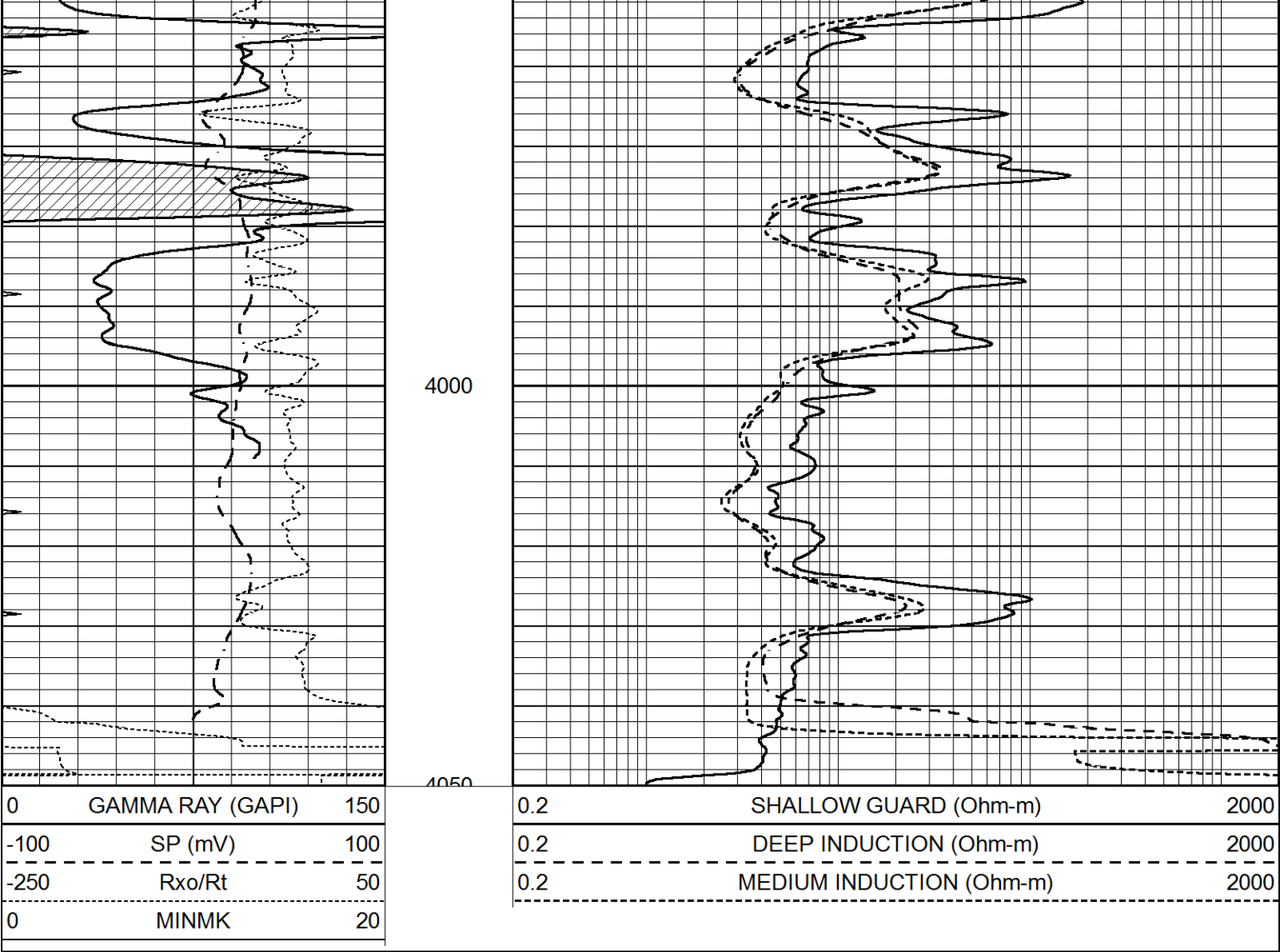
3800

3850

3900

3950





Calibration Report									
Database File	8206pe.db								
Dataset Pathname	pass3.2M								
Dataset Creation	Sun Sep 03 07:48:46 2023								
Dual Induction Calibration Report									
Serial-Model:				DIL7-GEAR					
Surface Cal Performed:				Sun Sep 03 06:47:04 2023					
Downhole Cal Performed:				Tue Apr 17 15:38:44 2007					
After Survey Verification Performed:				Tue Apr 17 15:38:40 2007					
Surface Calibration									

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	3.372	400.834	mmho/m	0.556	401.206	mmho/m	1.008	-2.843
Medium	13.557	467.446	mmho/m	9.465	462.114	mmho/m	0.997	-4.055
Shallow	2.521	0.019	V	500.000	2.000	Ohm-m	250.000	2.000
After Survey Verification								
Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	3.372	400.834	mmho/m	1.008	-2.843
Medium	0.000	0.000	mmho/m	13.557	467.446	mmho/m	0.997	-4.055
Shallow	2.500	0.000	Ohm-m	500.000	2.000	Ohm-m	250.000	0.000
Litho Density Calibration Report Serial: 004 Model: PRB								
Master Calibration			Performed Tue Aug 02 11:29:35 2022					
	Background	Magnesium		Aluminum		Aluminum+Fe		
Window 1	1154.2	10019.5		3137.9		2795.6		cps
Window 2	1054.4	8597.6		2733.4		2469.5		cps
Window 3	902.3	5241.4		1832.1		1719.3		cps
Window 4	251.9	261.1		255.8		252.9		cps
Long Space	0.0	7543.2		1679.0		1415.0		cps
Short Space	4.4	2049.3		1321.7		1116.8		cps
Rho		1.7100		2.5900		0.0000		g/cc
Pe		2.0000		2.7500		5.7900		
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio			: 0.562	
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept			: -17.2	
Before Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		
After Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		

Serial Number: Tool Model:		070808PMC 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:	OPEN_GR		
Performed:	Wed Aug 23 13:21:36 2023		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	