MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company White & Ellis Drilling Inc
Well Dunkle 7
Field
County Butler
State Kansas

Company White & Ellis Drilling Inc
Well Dunkle 7
Field
County Butler State Kansas

Location: API #: 15-015-24232-00-00
330 FWL & 1420 FSL
SEC 5 TWP 25S RGE 5E

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum	Ground Level	Elevation	1396
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 1405
D.F.
G.L. 1396

Date	7/12/2024		
Run Number	One		
Depth Driller	2836		
Depth Logger	2831		
Bottom Logged Interval	2830		
Top Log Interval	200		
Casing Driller	9.625 @ 207		
Casing Logger	217		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	2400		
Density / Viscosity	9.55 | 43		
pH / Fluid Loss	10.0 | 9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1 @ 75		
Rmf @ Meas. Temp	.83 @ 75		
Rmc @ Meas. Temp	1.49 @ 75		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	.79 @ 104		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	104		
Equipment Number	110		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Bill Stout		

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Potwin Kansas
Southeast to 50th, 1 1/2 E, N Into

Log Measured From: Kelly Bushing 9 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: J. Henrickson	Primary Witness: Bill Stout
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\white_ellis_dunkle_7.db
Dataset field/well/stackml/pass3.1/_vars_

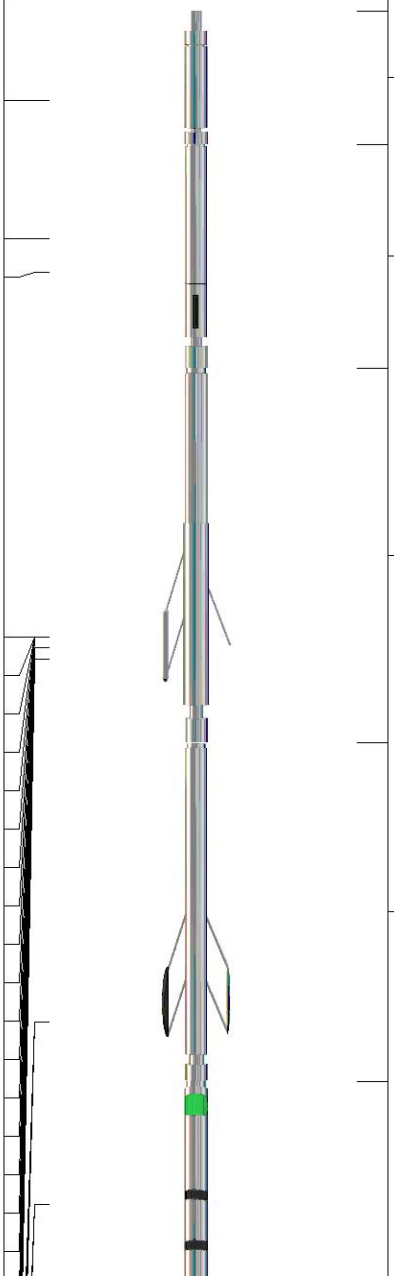
Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	104	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	85	95	Off	2831

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.23		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.13		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.38					
			MWLith-STEP LITHO Short (703-03)	8.40	5.00	250.00
LCAL	28.21					
LLW8N	28.21					
LLW7N	28.21					
LLW6N	28.21					
LLW5N	28.21					
LLW4N	28.21					
LLW3N	28.21					
LLW2N	28.21		ML-PSI STKBL ML (402)	7.58	4.00	65.00
LLW1N	28.21					
LSLOCK	27.96					
LLLOCK	27.96					
PELTMPR	27.96					
LSHVNG	27.96					
LLHVNG	27.96					
LSW8N	27.71					
LSW7N	27.71					
LSW6N	27.71					

LSW5N	27.71				
LSW4N	27.71				
LSW3N	27.71				
LSW2N	27.71				
LSW1N	27.71				
MCAL	19.58	DIL-M&W (506)	18.25	3.50	220.00
MI	19.58				
MN	19.58				
RLL3F	15.50				
RLL3	15.50				
CILD	8.33				
CILM	4.50				
SP	0.20				

Dataset:	white_ellis_dunkle_7.db: field/well/stackml/pass3.1
Total length:	42.23 ft
Total weight:	685.00 lb
O.D.:	5.00 in

MIDWEST WIRELINE

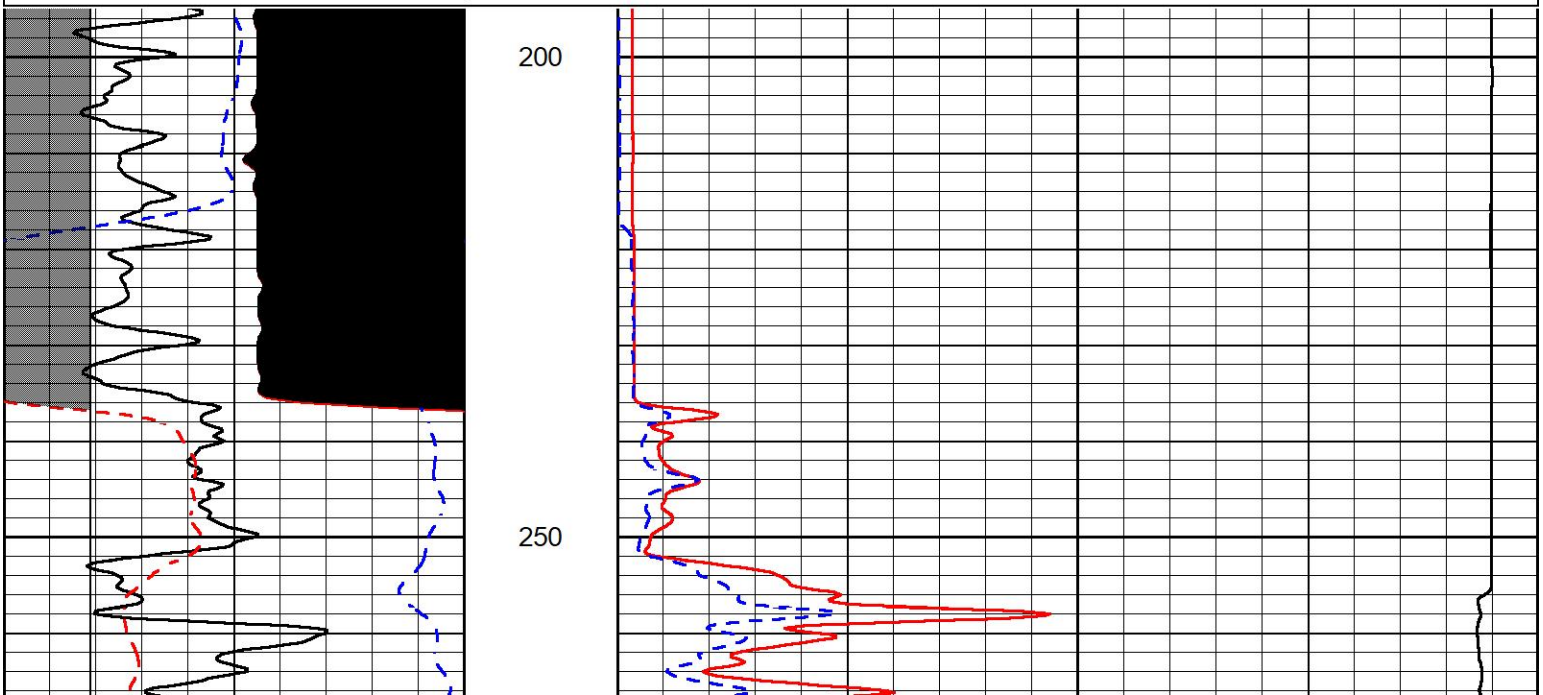
DETAIL SECTION

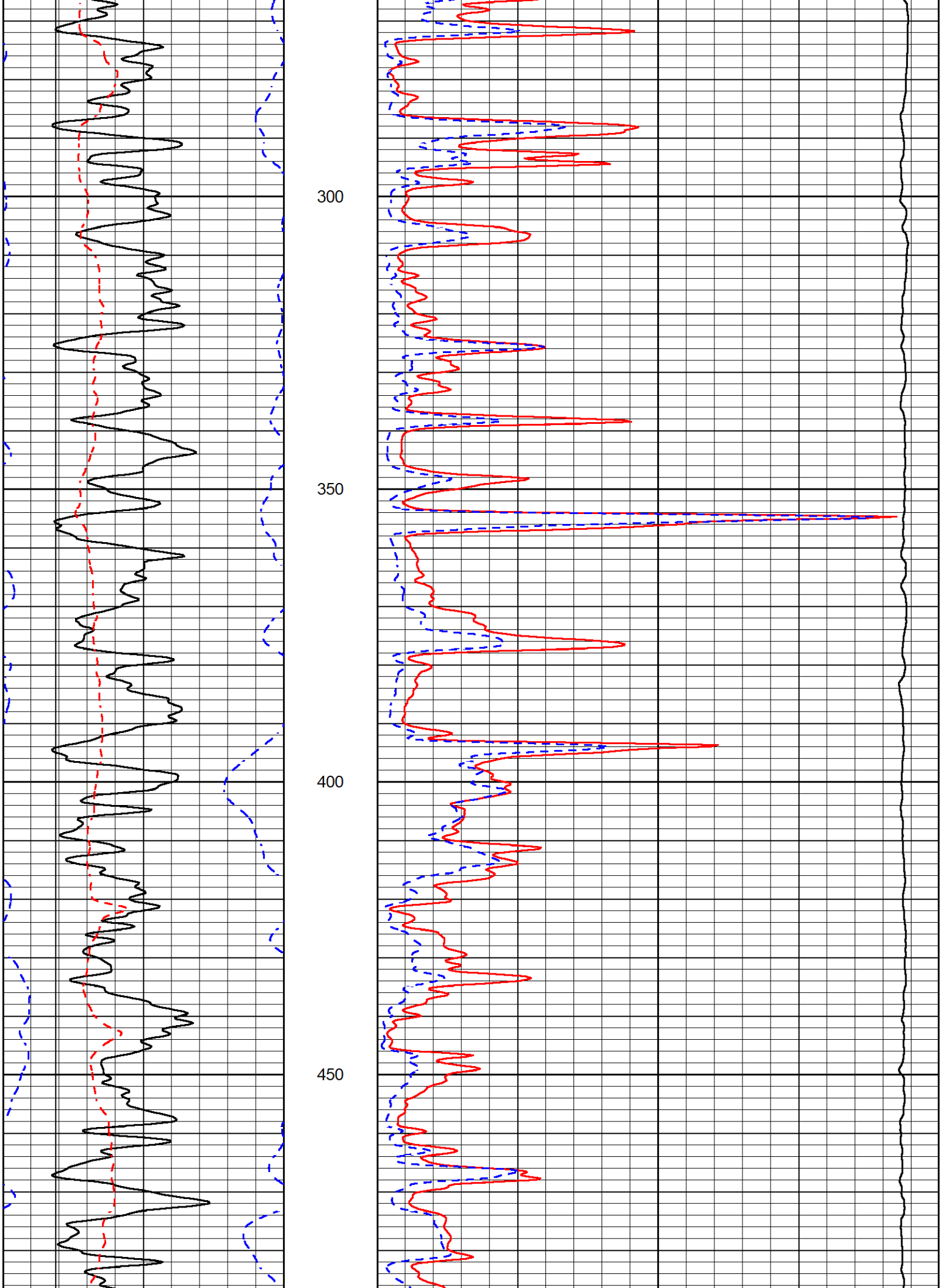
MAIN PASS

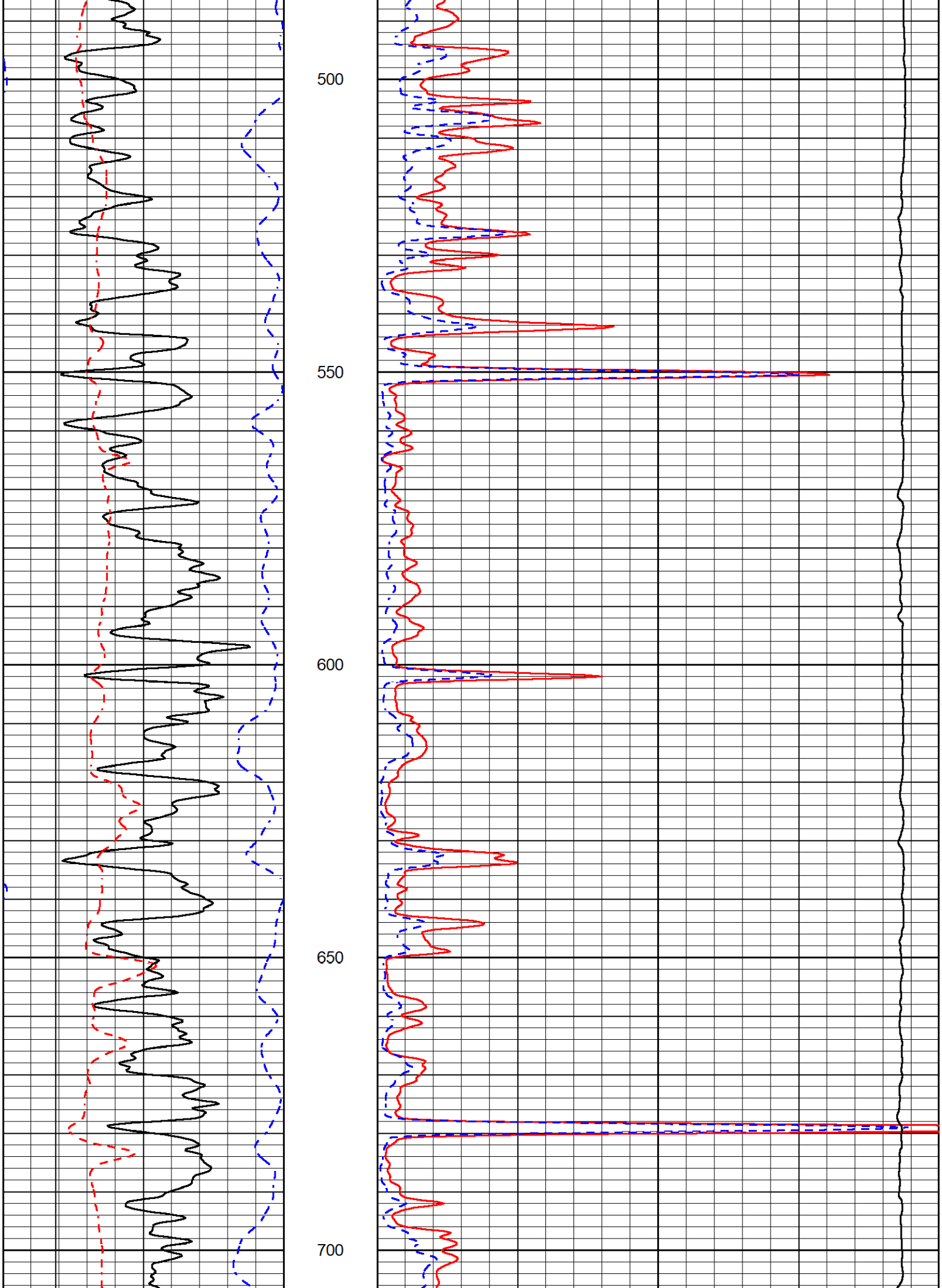
Database File	white_ellis_dunkle_7.db
Dataset Pathname	stackml/pass3.1
Presentation Format	_micro
Dataset Creation	Fri Jul 12 18:55:24 2024
Charted by	Depth in Feet scaled 1:240

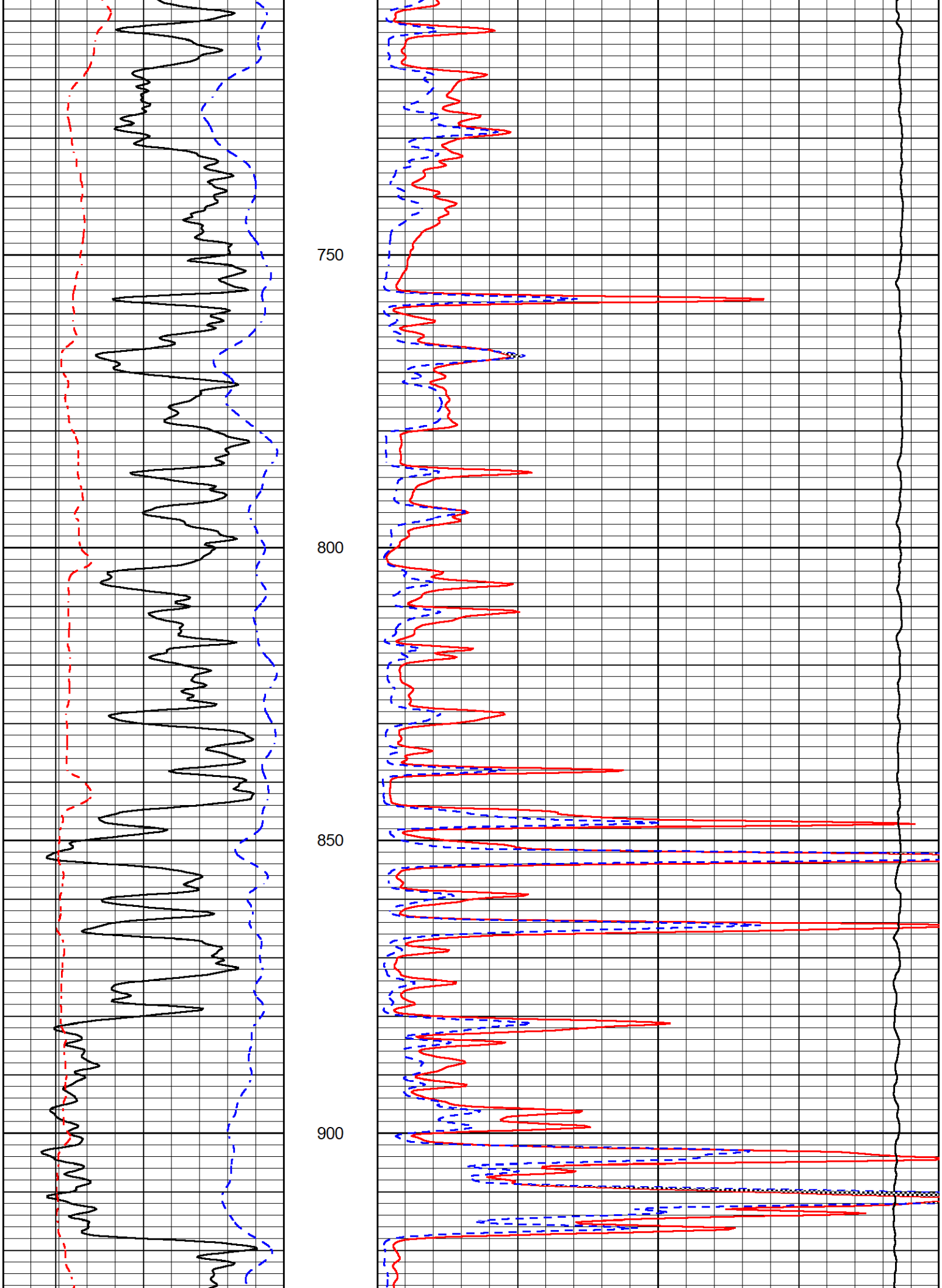
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

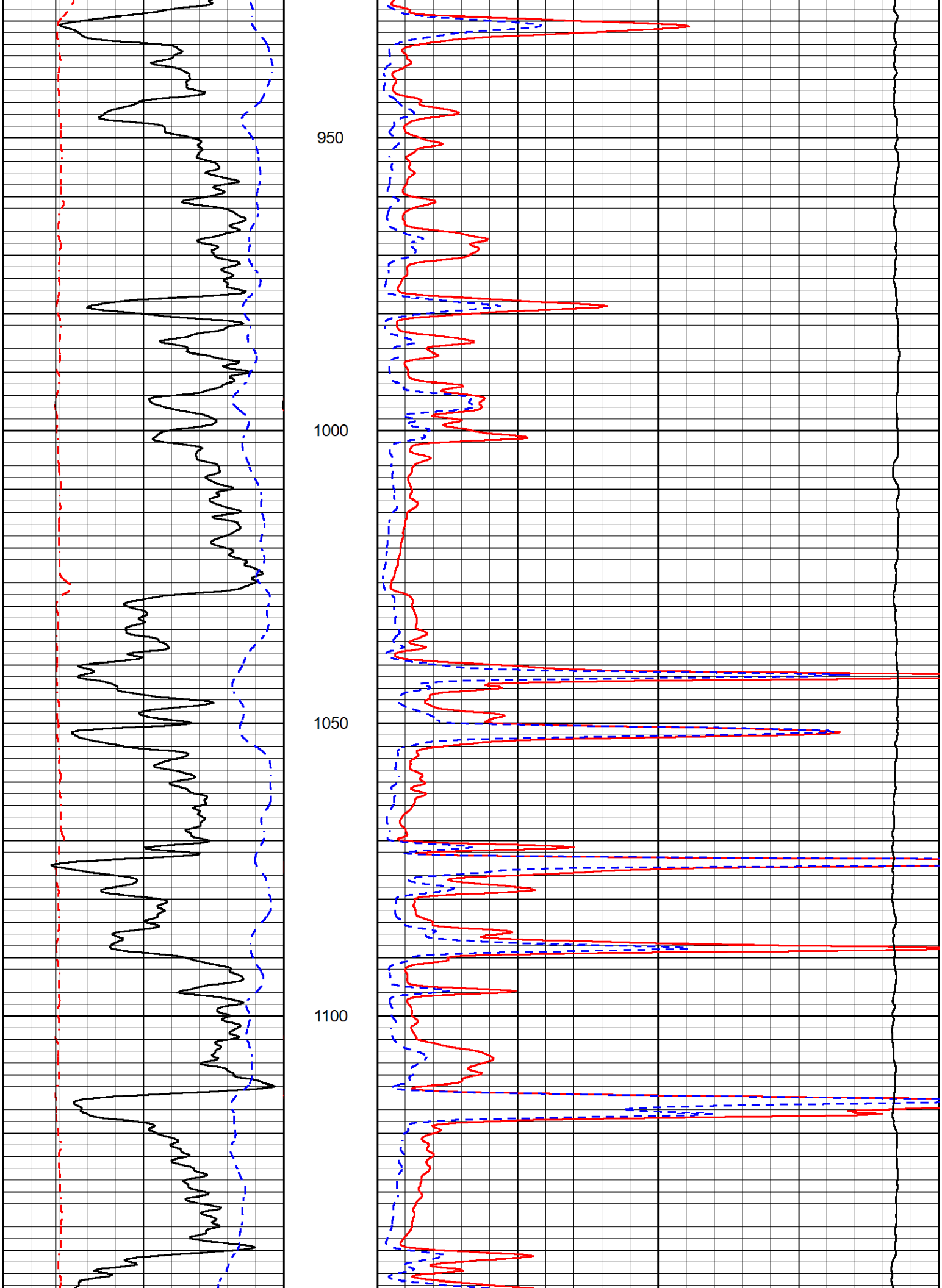
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

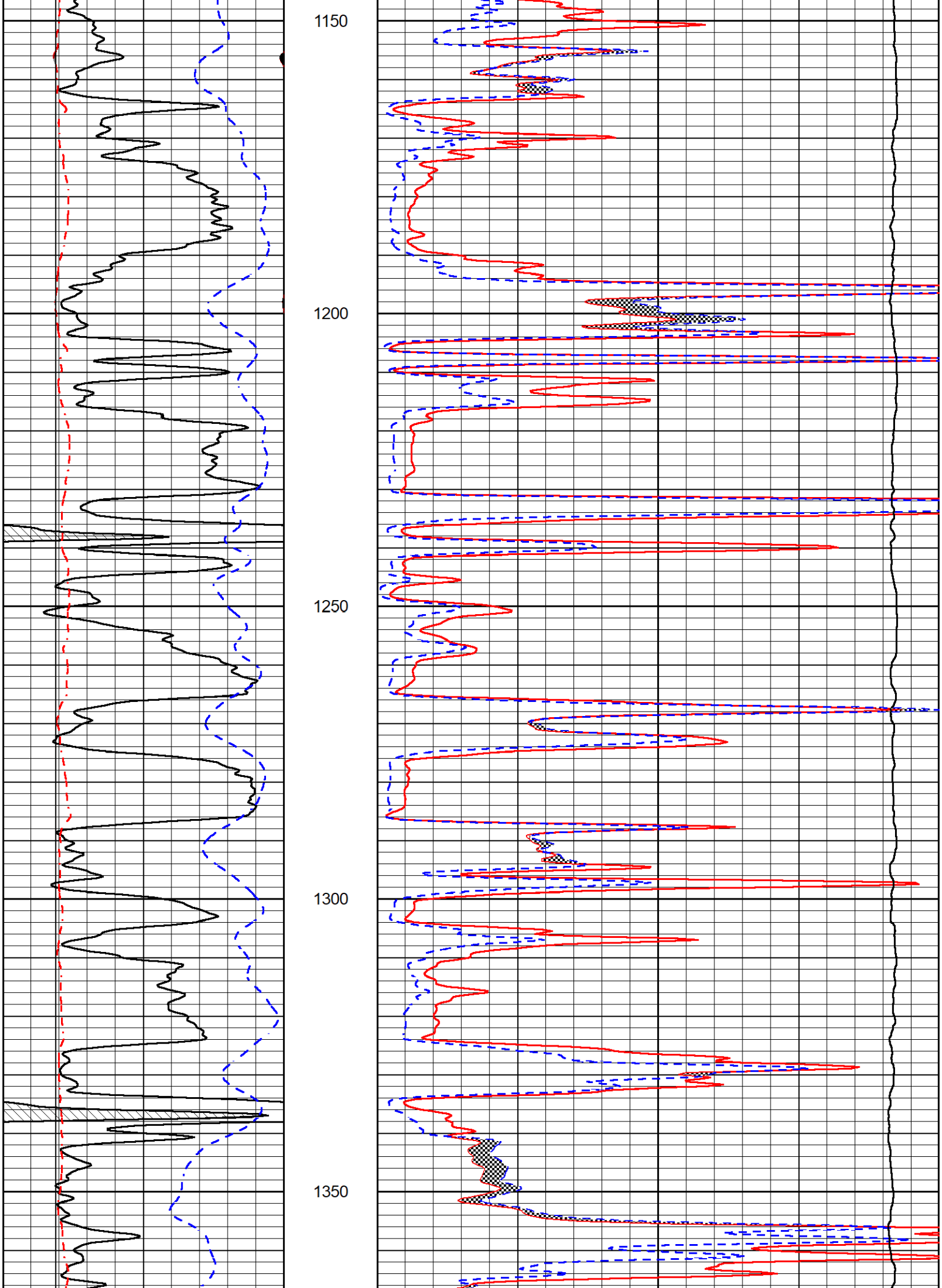


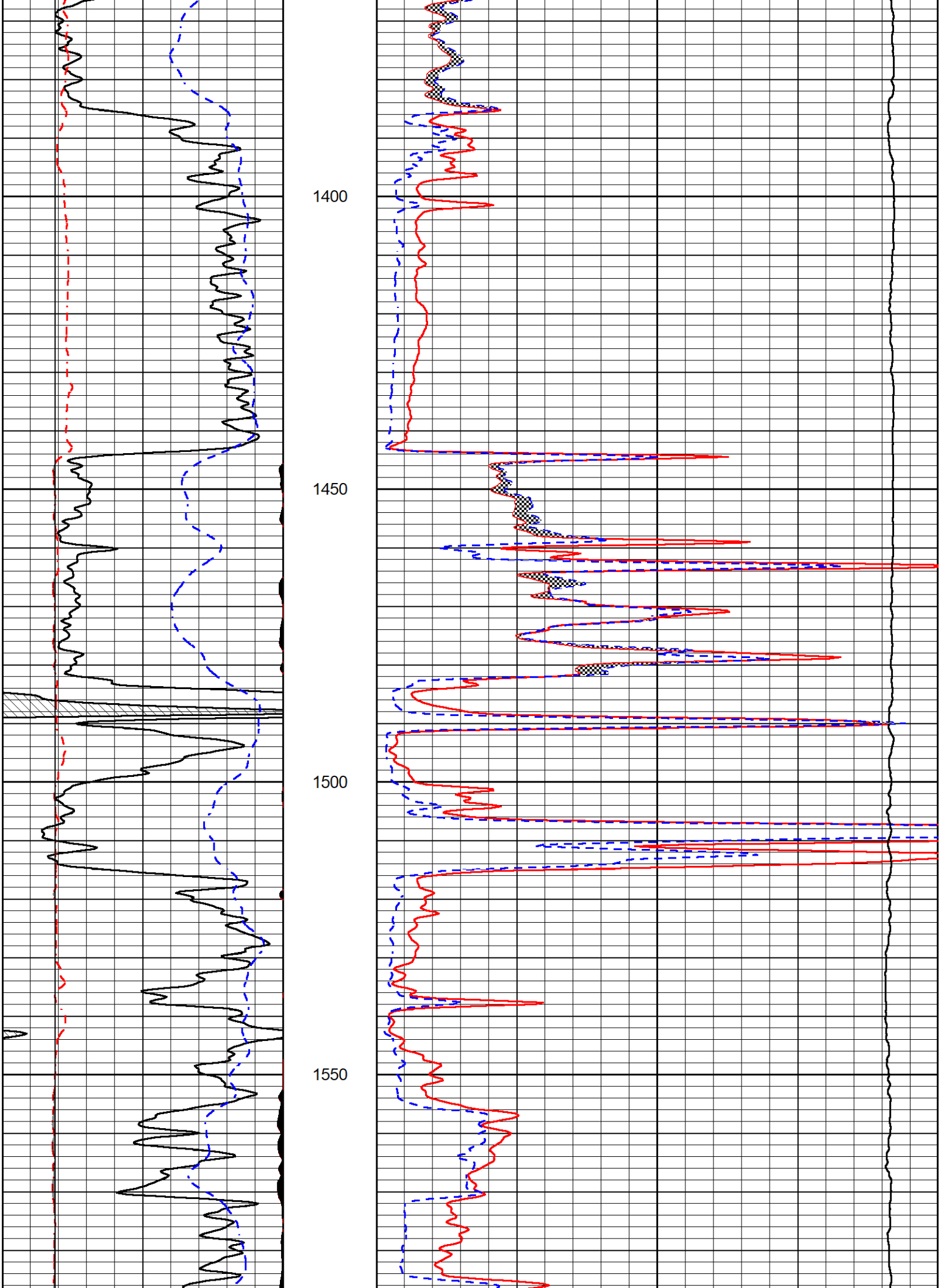

300
350
400
450

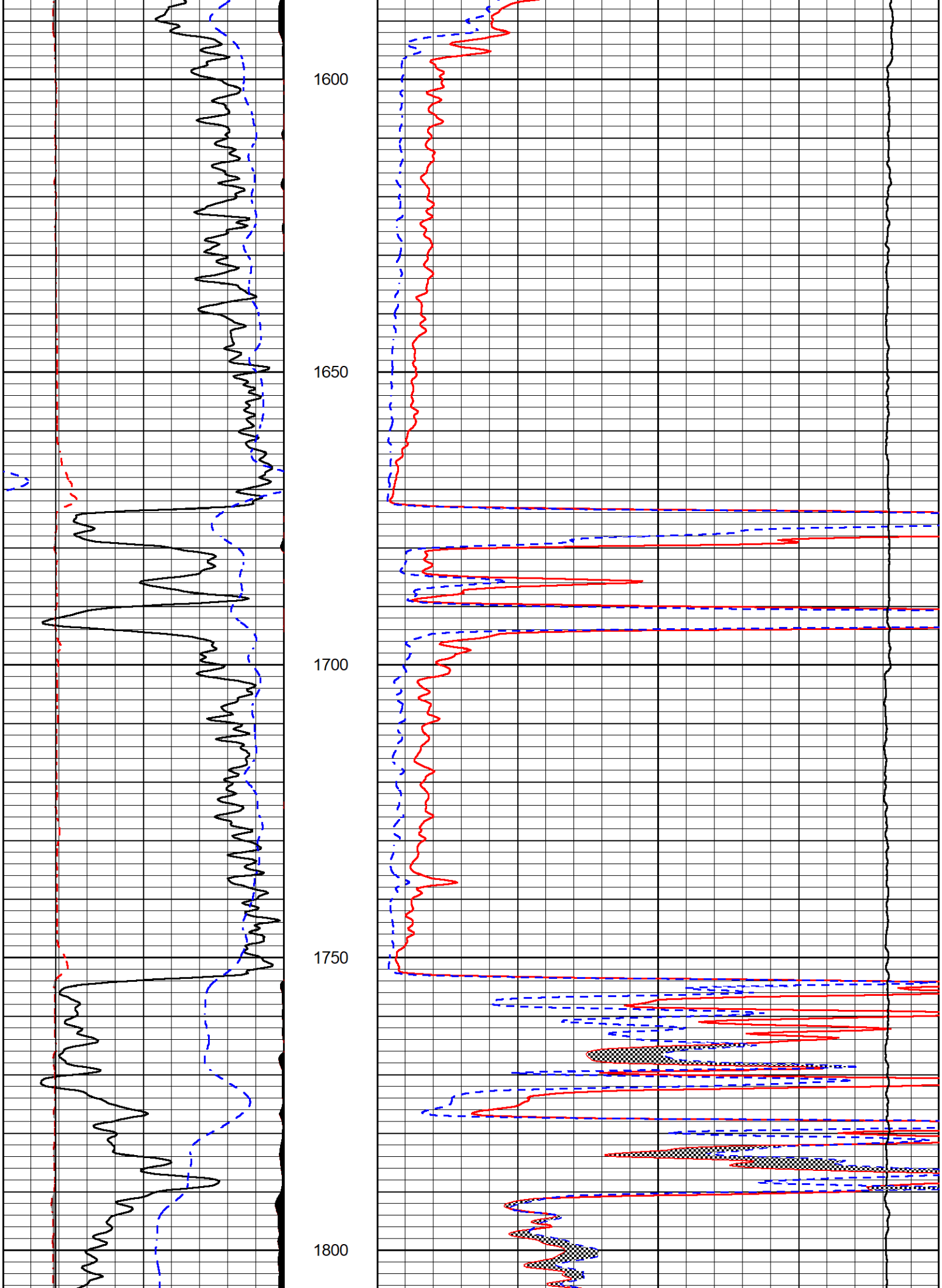

500
550
600
650
700

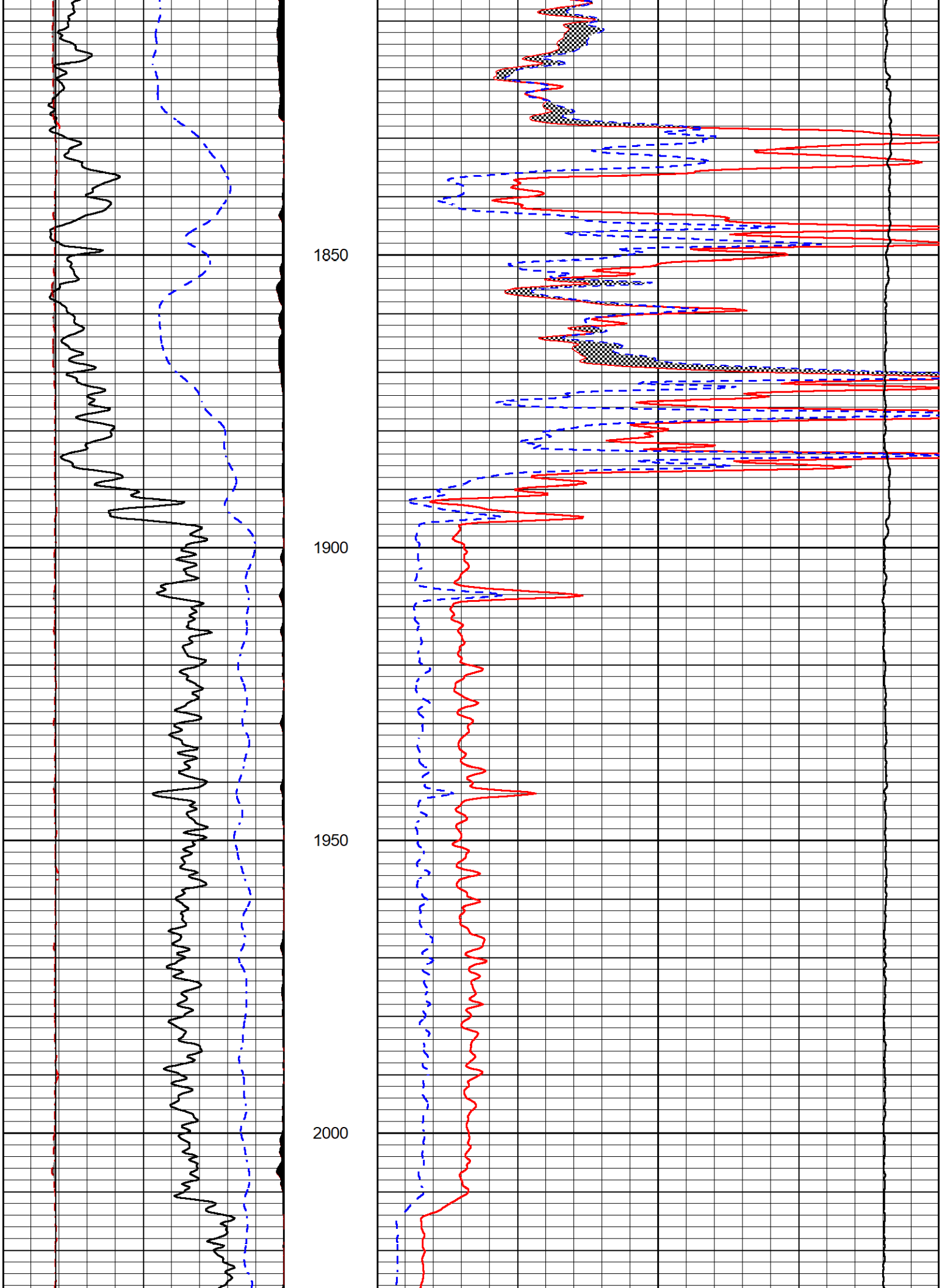

750
800
850
900

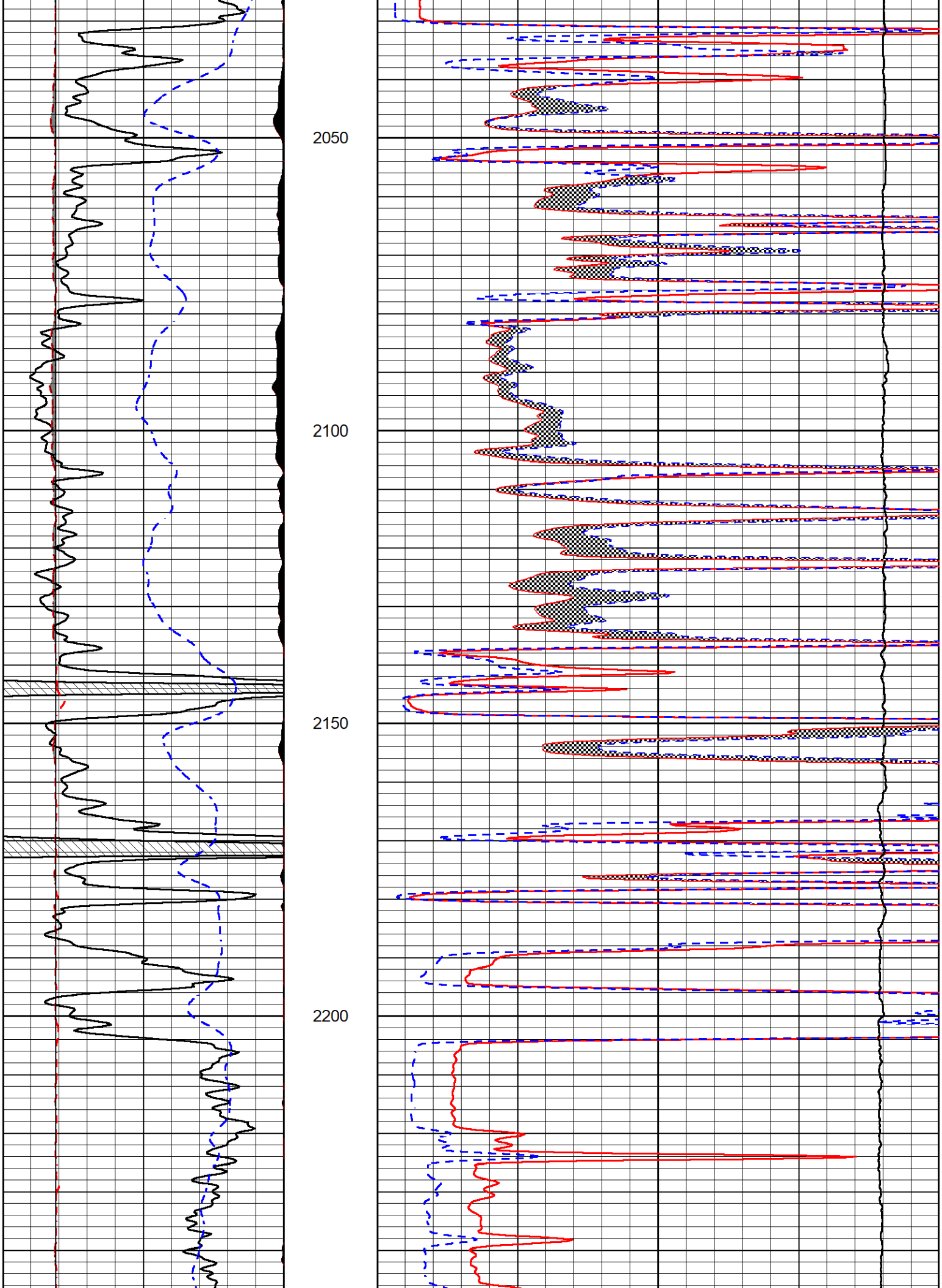

950
1000
1050
1100

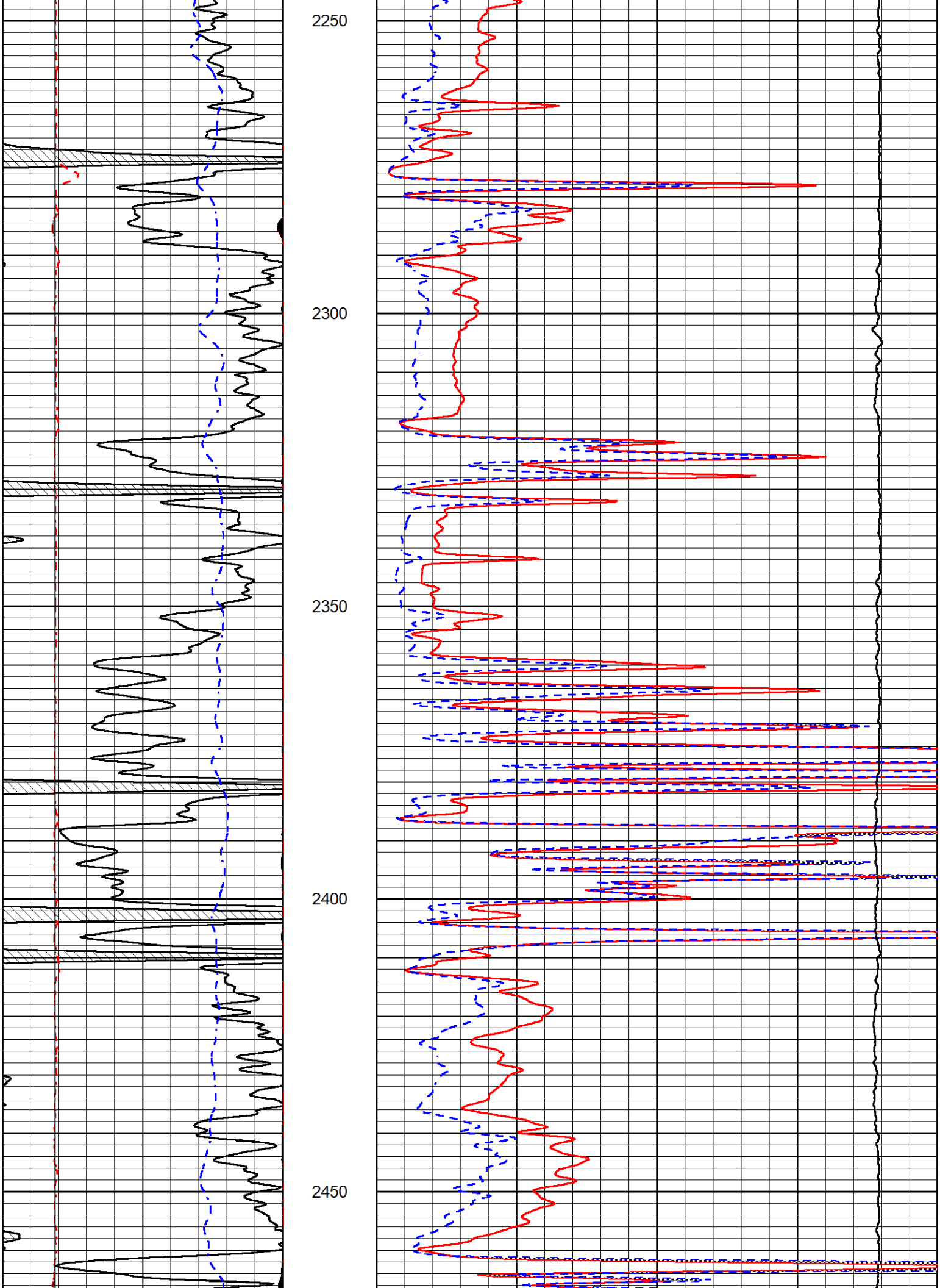

1150
1200
1250
1300
1350

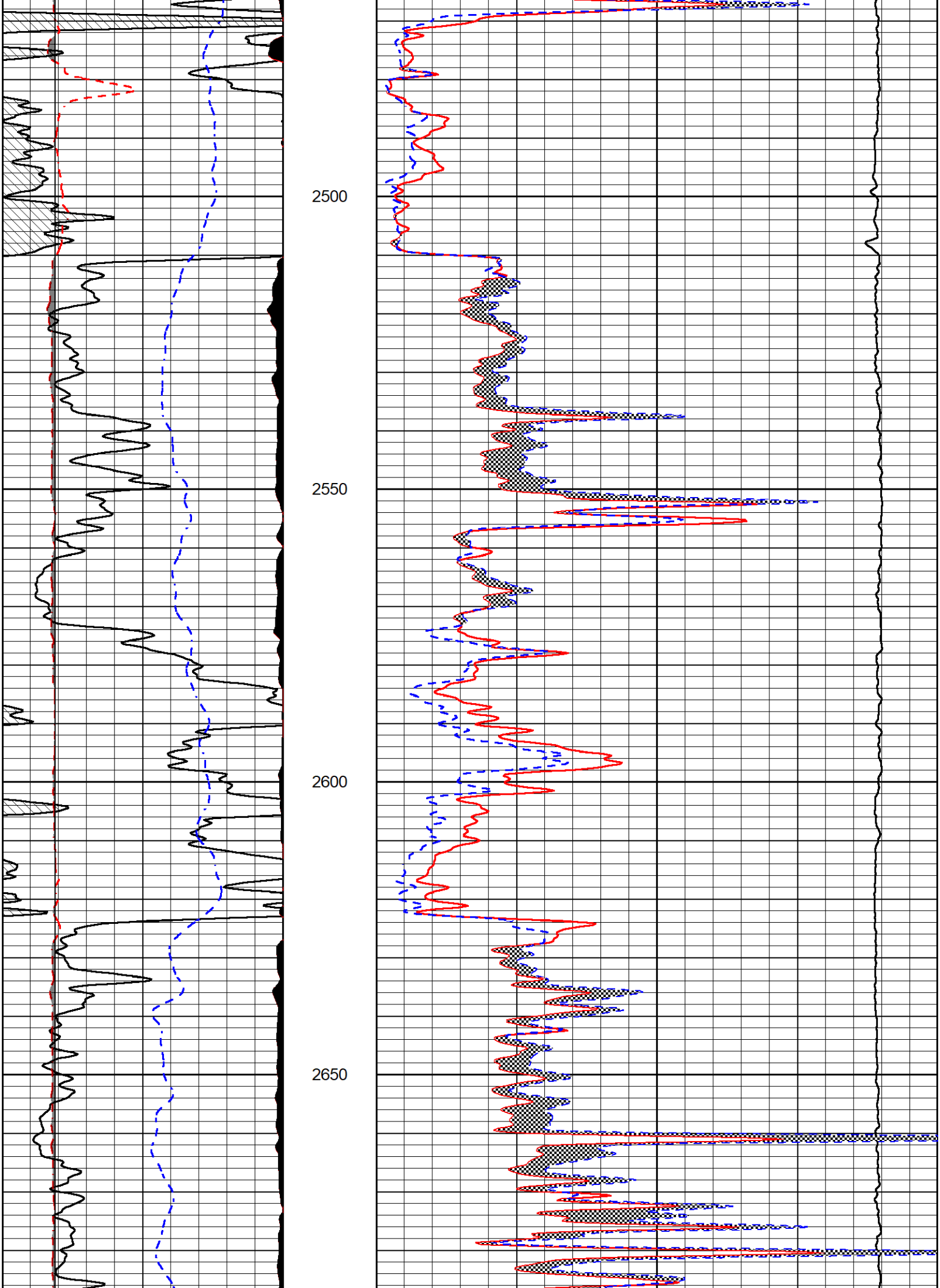

1400
1450
1500
1550

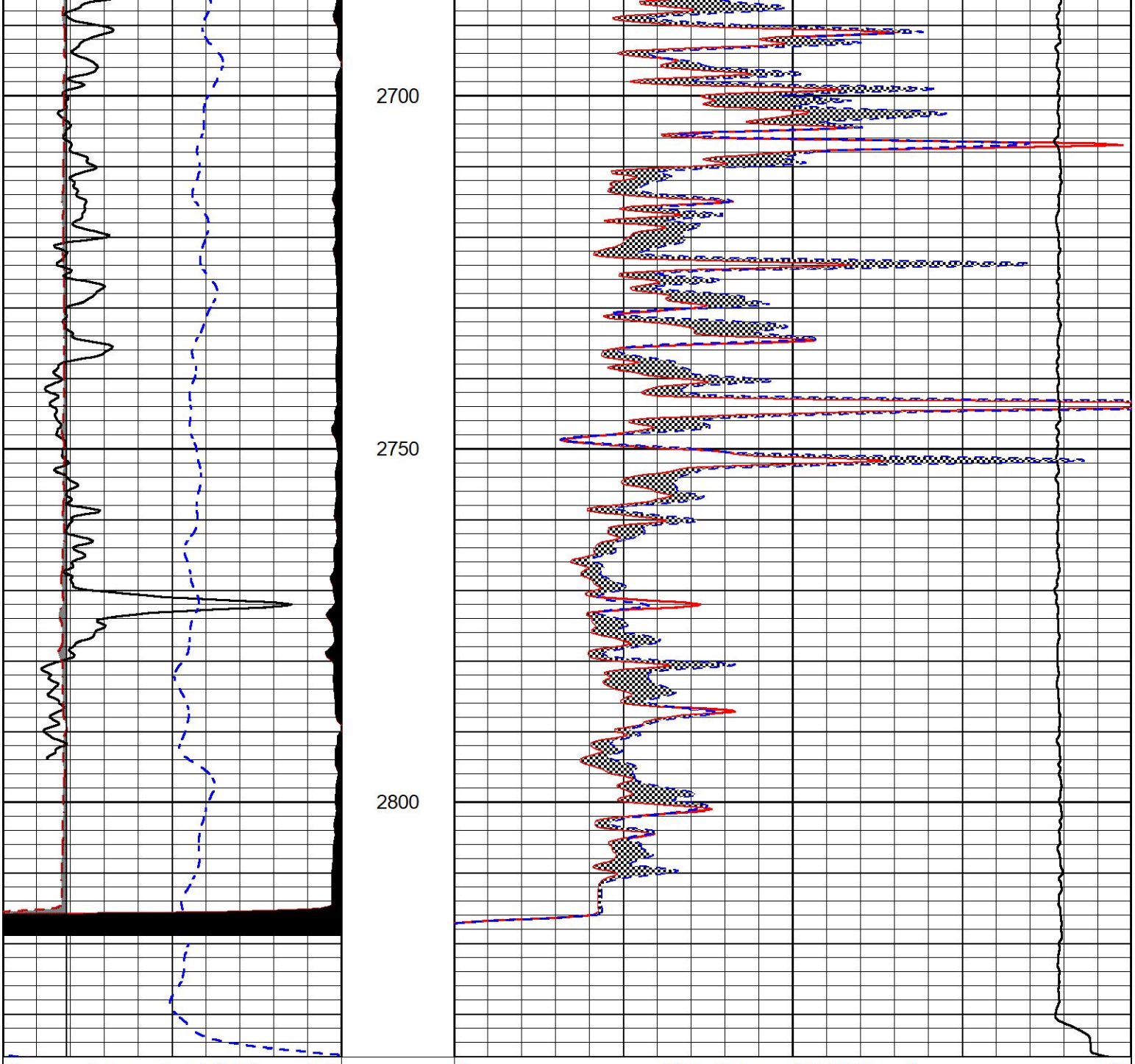

1600
1650
1700
1750
1800


1850
1900
1950
2000


2050
2100
2150
2200


2250
2300
2350
2400
2450


2500
2550
2600
2650



0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

MIDWEST WIRELINE

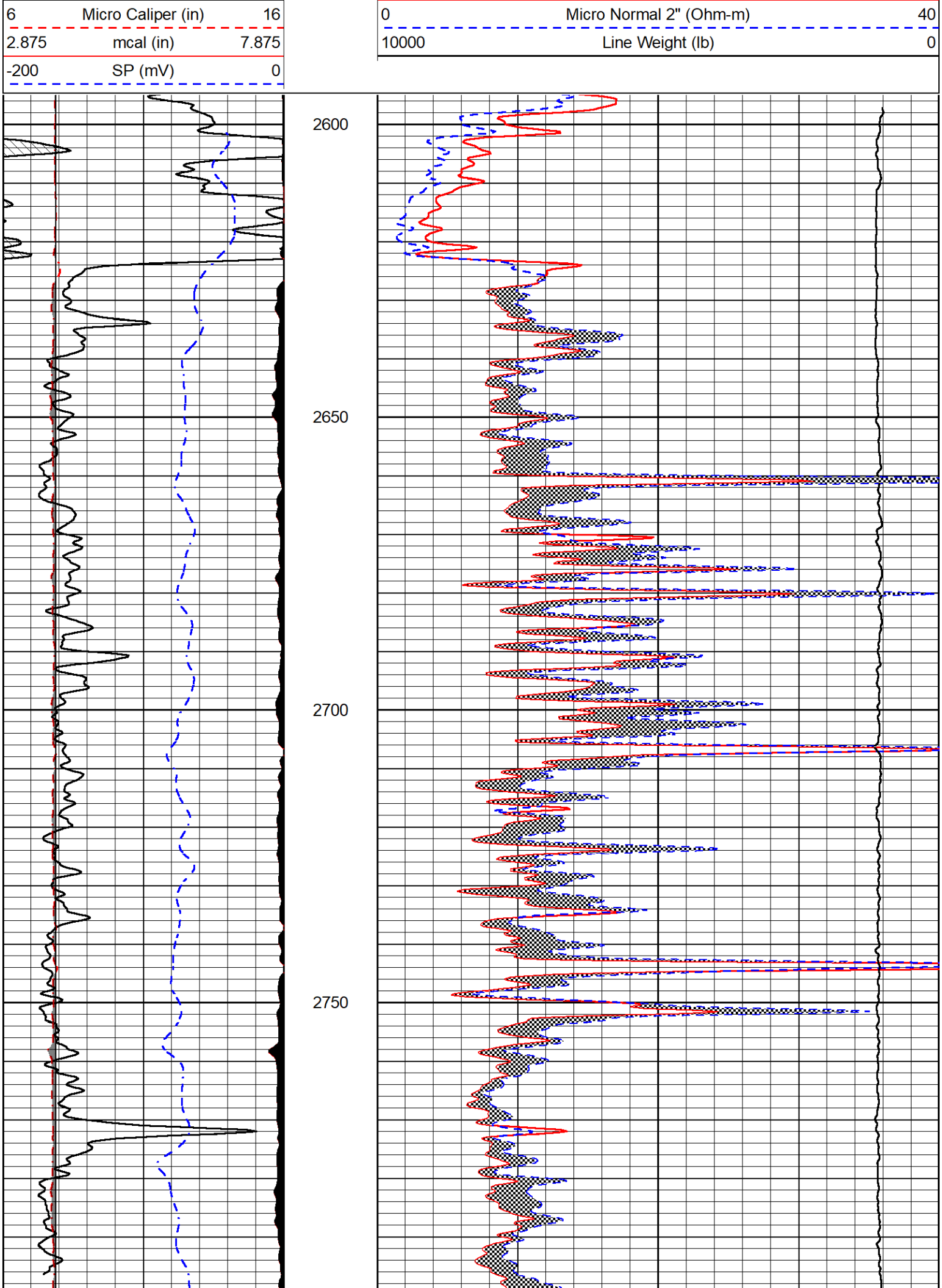
REPEAT SECTION

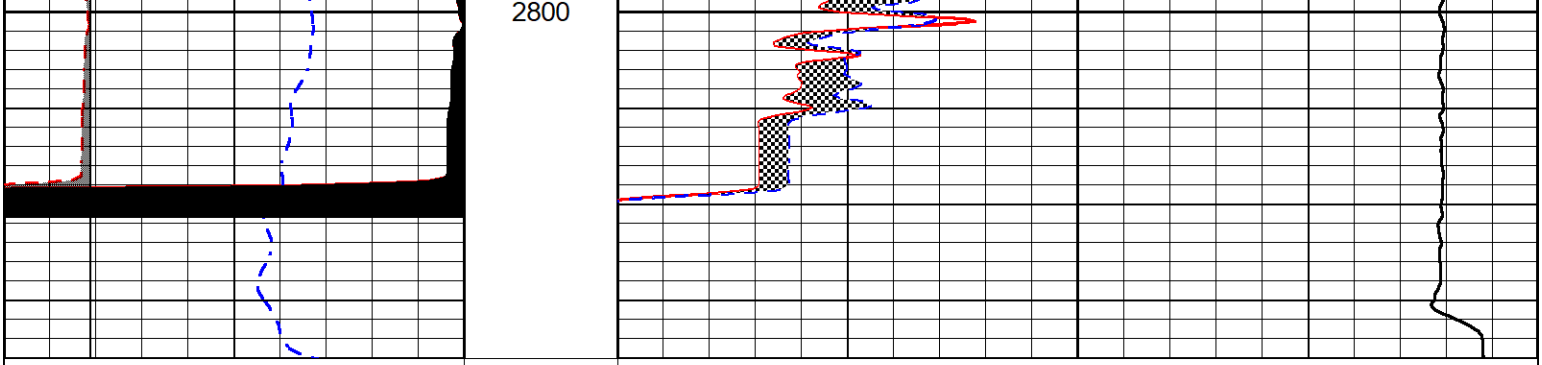
REPEAT PASS

Database File	white_ellis_dunkle_7.db
Dataset Pathname	stackml/pass2.1
Presentation Format	_micro
Dataset Creation	Fri Jul 12 18:02:51 2024
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150

0	Micro Inverse 1 X 1 (Ohm-m)	40


6
Micro Caliper (in)
16
2.875
mcal (in)
7.875
-200
SP (mV)
0
0
Micro Normal 2" (Ohm-m)
40
10000
Line Weight (lb)
0
2600
2650
2700
2750



0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Calibration Report

Database File	white_ellis_dunkle_7.db
Dataset Pathname	stackml/pass3.1
Dataset Creation	Fri Jul 12 18:55:24 2024

Dual Induction Calibration Report

Serial-Model:	506-M&W
Surface Cal Performed:	Sun Jun 30 20:32:27 2024

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.465	-32.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.390	-10.000

Microlog Calibration Report

Serial-Model:	402-PSI STKBL ML
Performed:	Thu May 30 05:58:00 2024

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	12000.0000	-0.5000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	18500.0000	-0.7000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.6250

LITHODENSITY Calibration Report

Serial Number:	703-03
Tool Model:	STEP LITHO Short
Performed:	Fri May 31 13:59:15 2024

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	56	59	223	276	25	75	46	1	cps
LS:	83	90	344	441	51	132	90	3	cps
Aluminum:									
SS:	1063	1260	2893	2631	48	80	48	3	cps
LS:	1179	2084	3854	1823	62	133	86	5	cps

Magnesium:									
SS:	1756	2035	4740	3894	55	79	49	4	cps
LS:	4981	8390	15059	6054	115	127	85	14	cps
Aluminum+Iron:									
SS:	676	887	2426	2310	45	79	52	2	cps
LS:	700	1495	3280	1630	60	131	90	5	cps

	Density			PE		
	Actual	Calibrated		Actual	Calibrated	Quality
Background:						
SS:						0.236
LS:						0.189
Aluminum:						
SS:	2.6000	2.6000	g/cc			0.249
LS:	2.6000	2.6000	g/cc			0.216
Magnesium:						
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.232
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.198
Aluminum+Iron:						
SS:					6.1800	0.208
LS:					6.1800	0.188

	Reference:		Reading:
Caliper:			
Small Ring:	6.0	in	1.0
Large Ring:	14.0	in	1.0
Gain:	12.765		
Offset:	1.800		

Compensated Neutron Calibration Report

Serial Number:	210
Tool Model:	M&W

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	105	
Tool Model:	M&W	
Performed:	Sat Oct 21 23:48:19 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps

MIDWEST WIRELINE

Company	White & Ellis Drilling Inc
Well	Dunkle 7
Field	
County	Butler
State	Kansas