DUAL INDUCTION LOG

Company GRIFFIN MANAGEMENT, LLC.
Well MARY #3
Field
County PRATT State KANSAS

Company GRIFFIN MANAGEMENT, LLC.
Well MARY #3
Field
County PRATT
State KANSAS

Location: API # : 15-151-22511-0000

1370' FNL & 1950' FWL

SEC 33 TWP 29S RGE 15W

Other Services
CDL/CNL/PE
MEL/SON

Elevation

Permanent Datum GROUND LEVEL Elevation 1968
Log Measured From KELLY BUSHING 11' A.G.L
Drilling Measured From KELLY BUSHING

K.B. 1979
D.F. 1977
G.L. 1968

Date	2/2/20		
Run Number	ONE		
Depth Driller	4840		
Depth Logger	4850		
Bottom Logged Interval	4848		
Top Log Interval	00		
Casing Driller	8 5/8" @ 267'		
Casing Logger	265'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5000 PPM	
Density / Viscosity	9.4/58		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 70F		
Rmf @ Meas. Temp	.60 @ 70F		
Rmc @ Meas. Temp	.96 @ 70F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.45 @ 124F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	124F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	ELI FELTS		

<<< Fold Here >>>

Comments

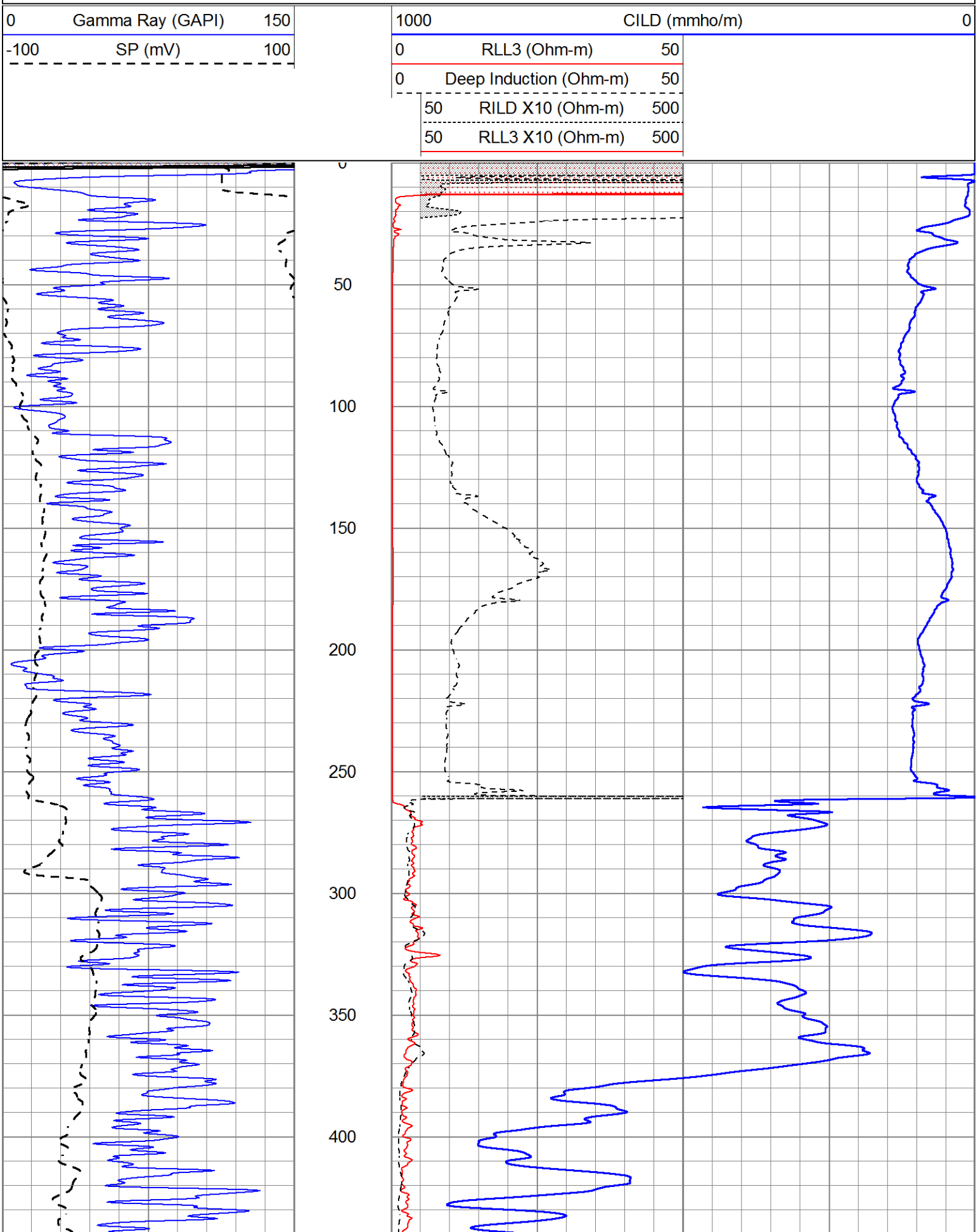
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

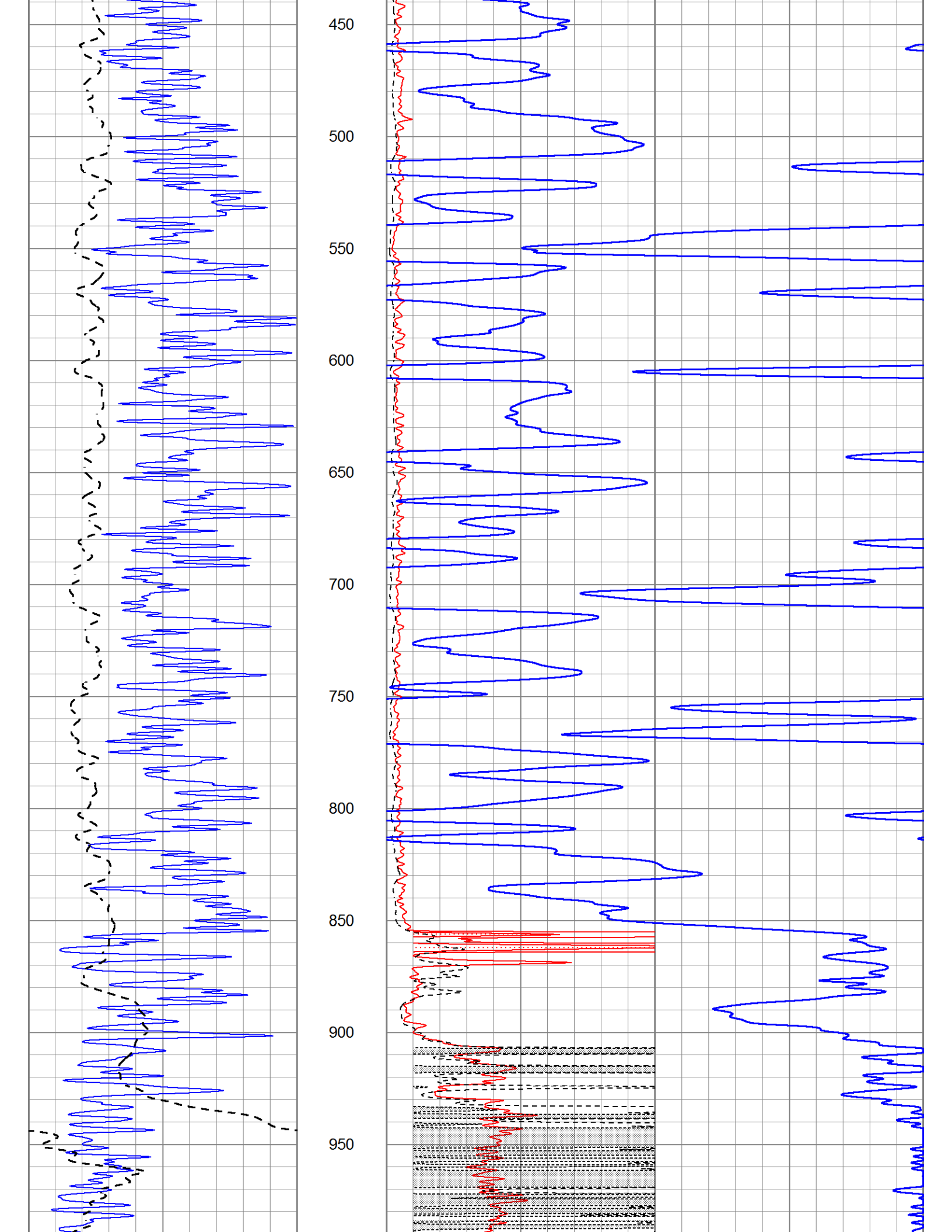
DIRECTIONS

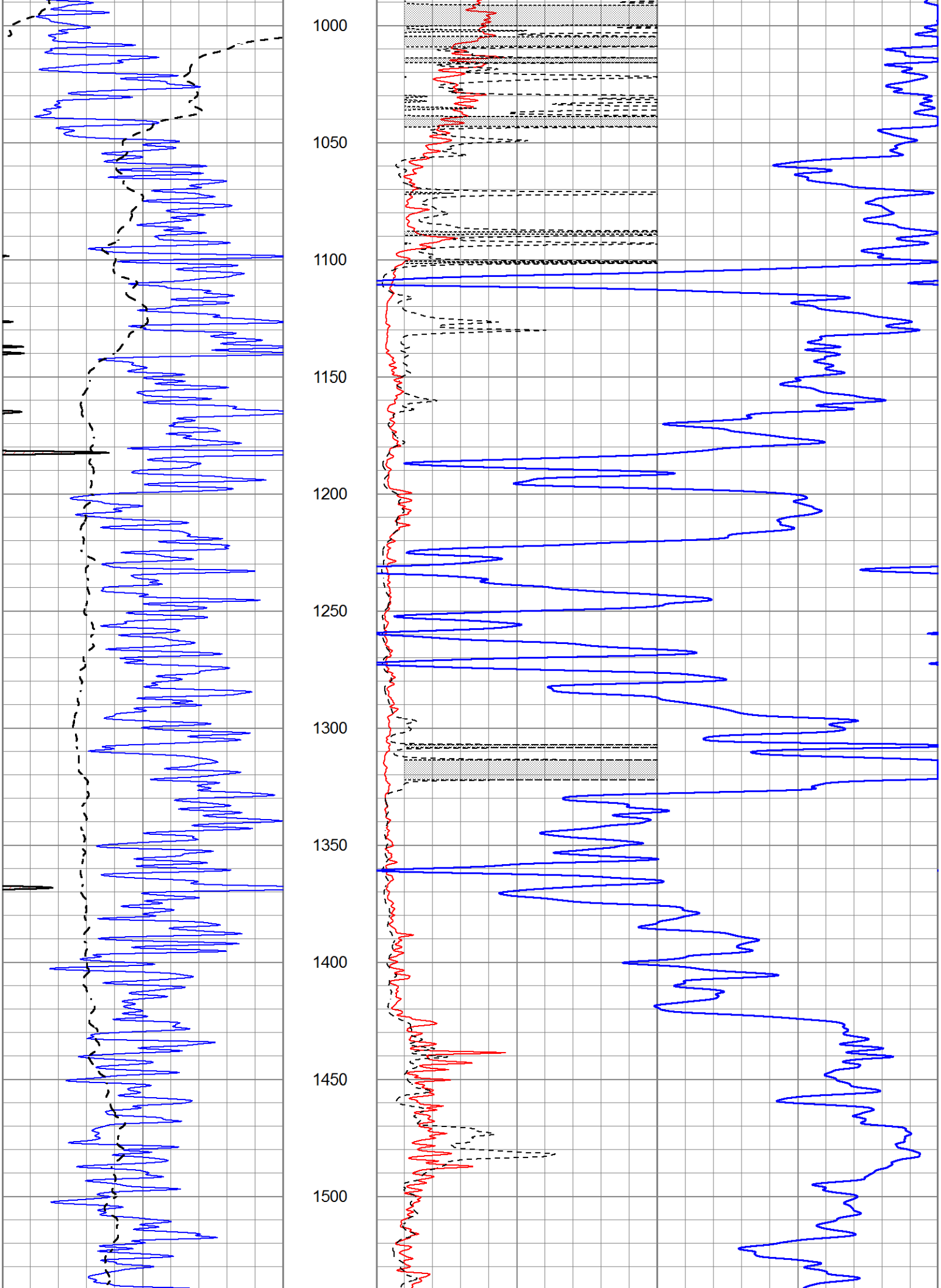
CROFT, KS. - SOUTH TO 110TH RD. - 1 EAST - 1/4 SOUTH - EAST INTO

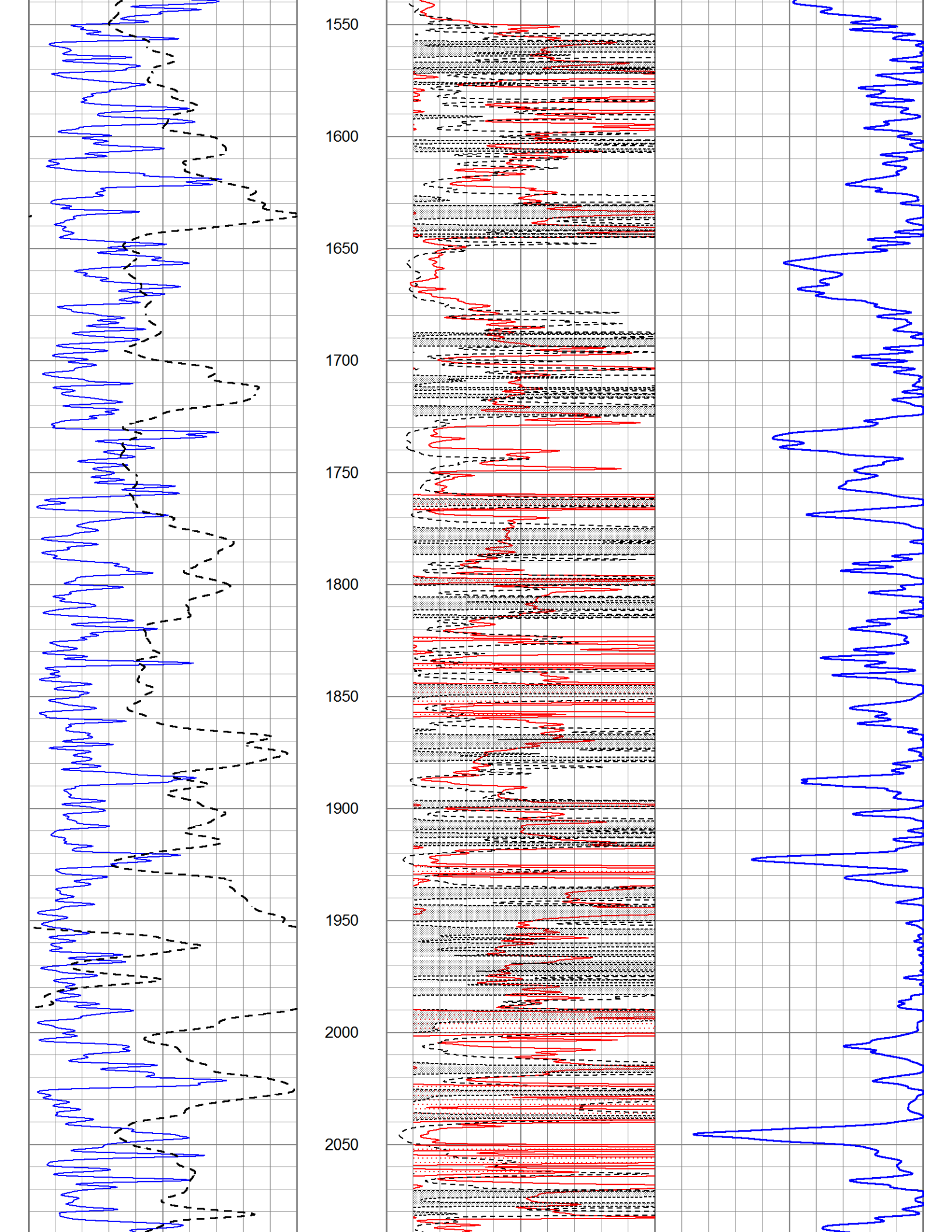
MAIN SECTION

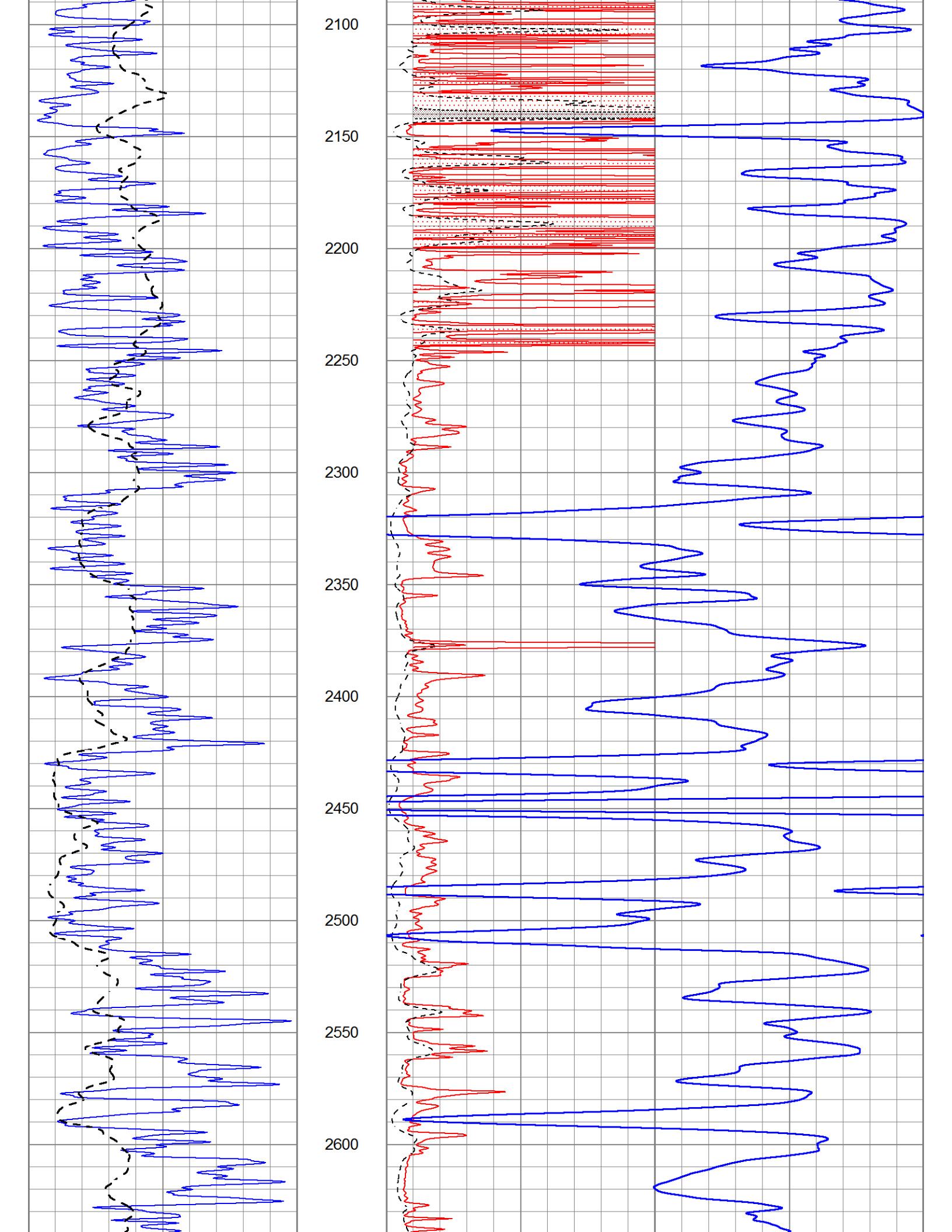
Database File	4726pe.db
Dataset Pathname	pass3.2
Presentation Format	_dil2
Dataset Creation	Sun Feb 02 03:28:39 2020
Charted by	Depth in Feet scaled 1:600

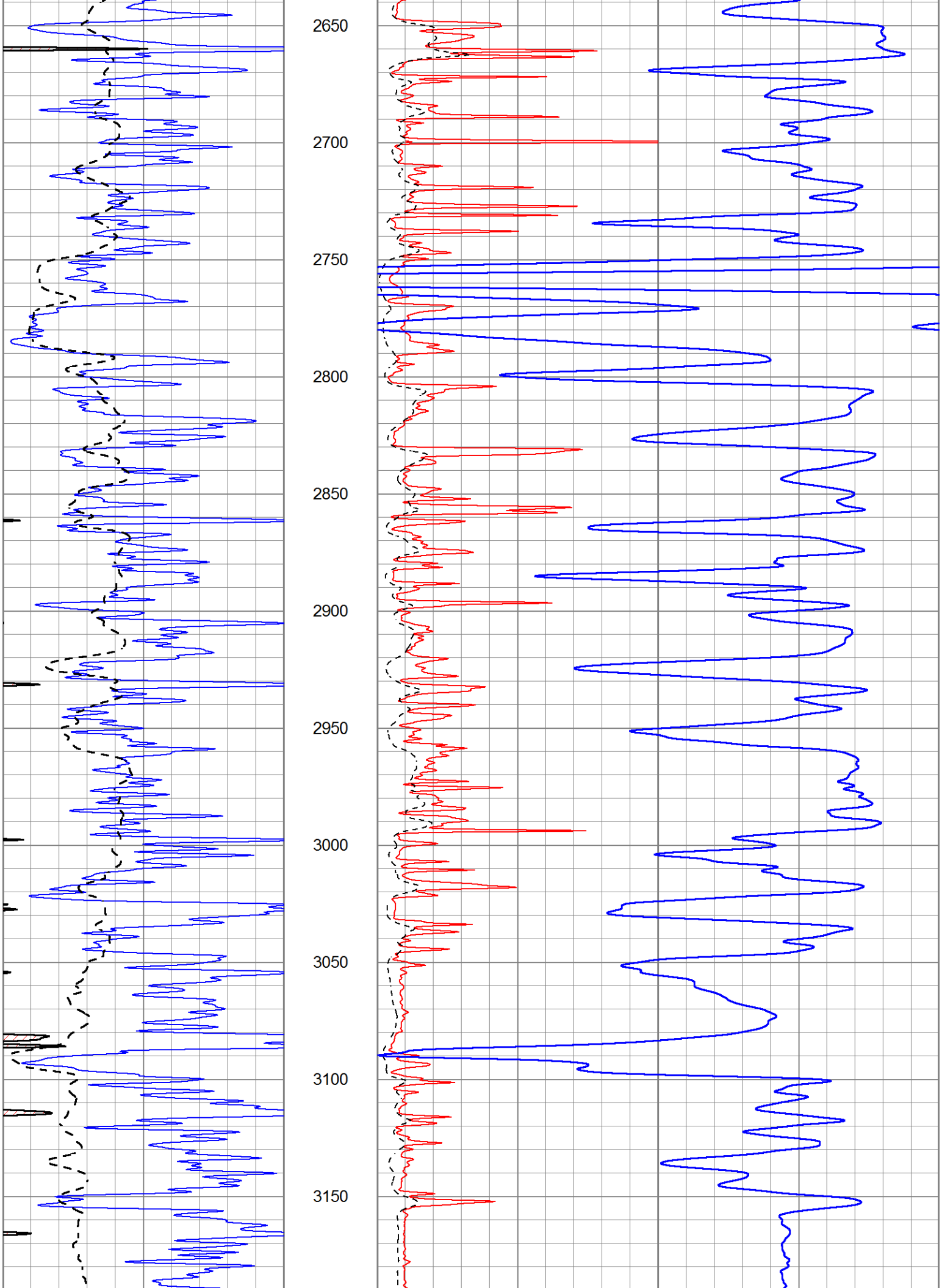


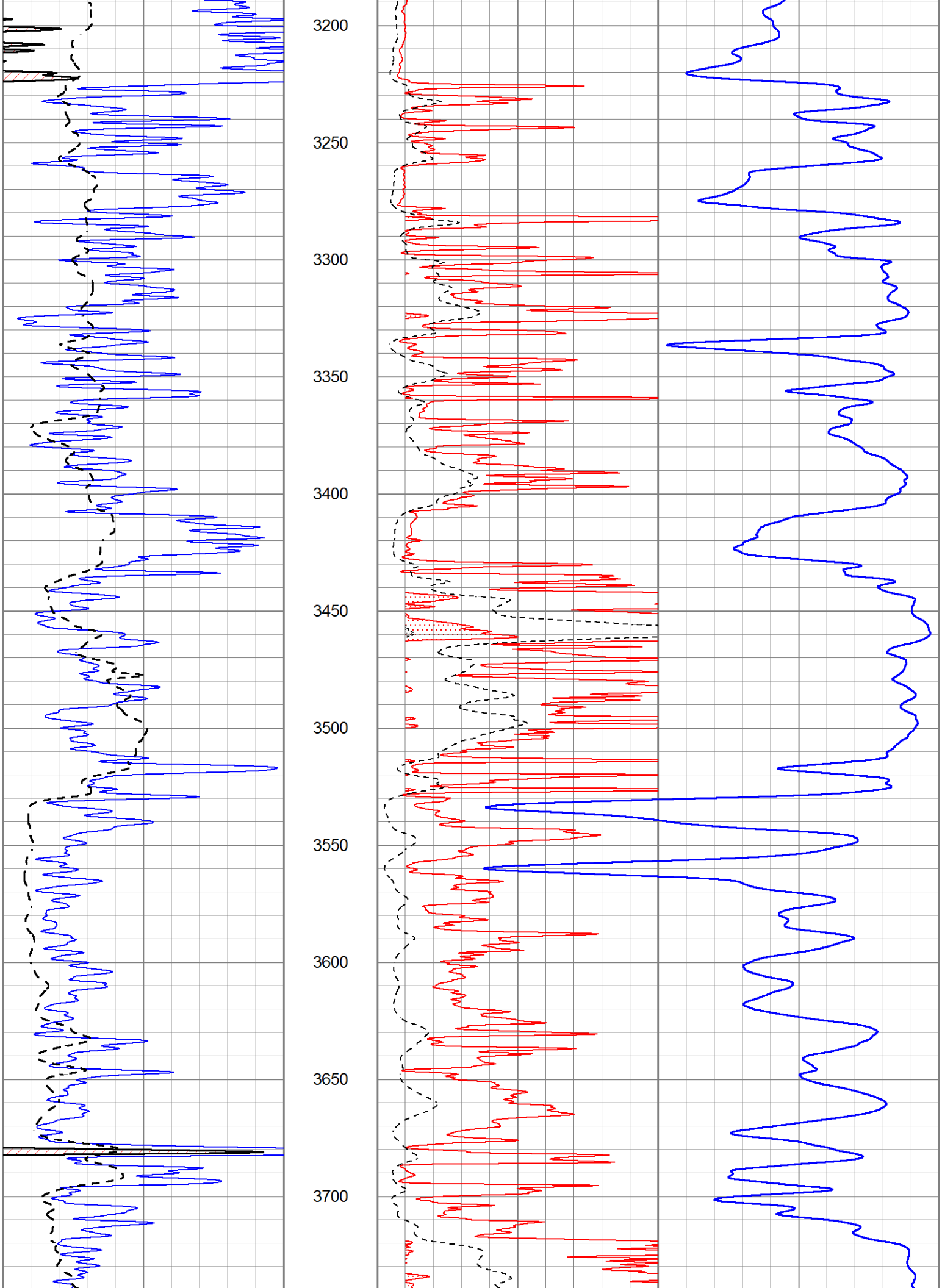

450
500
550
600
650
700
750
800
850
900
950

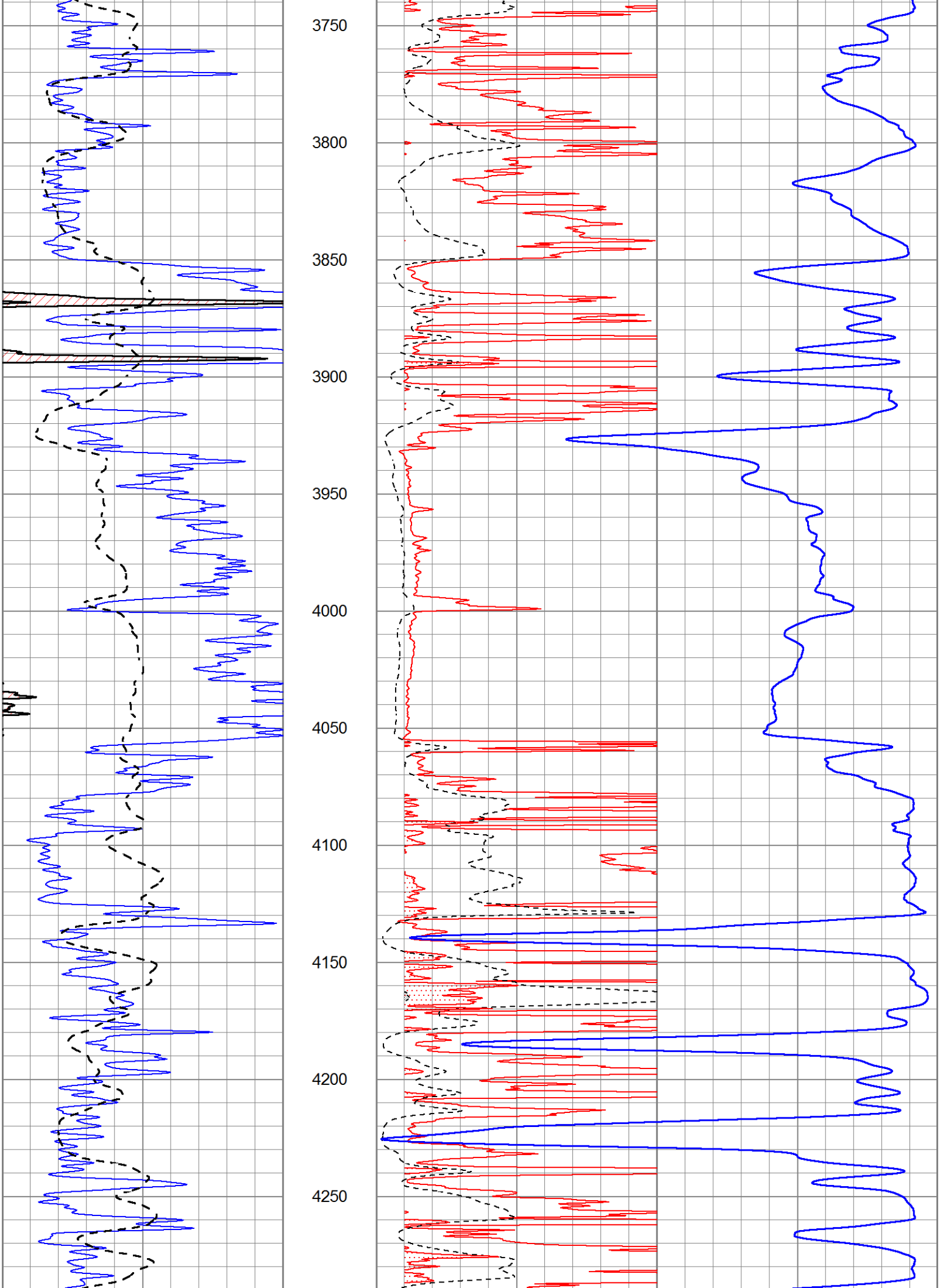

1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500

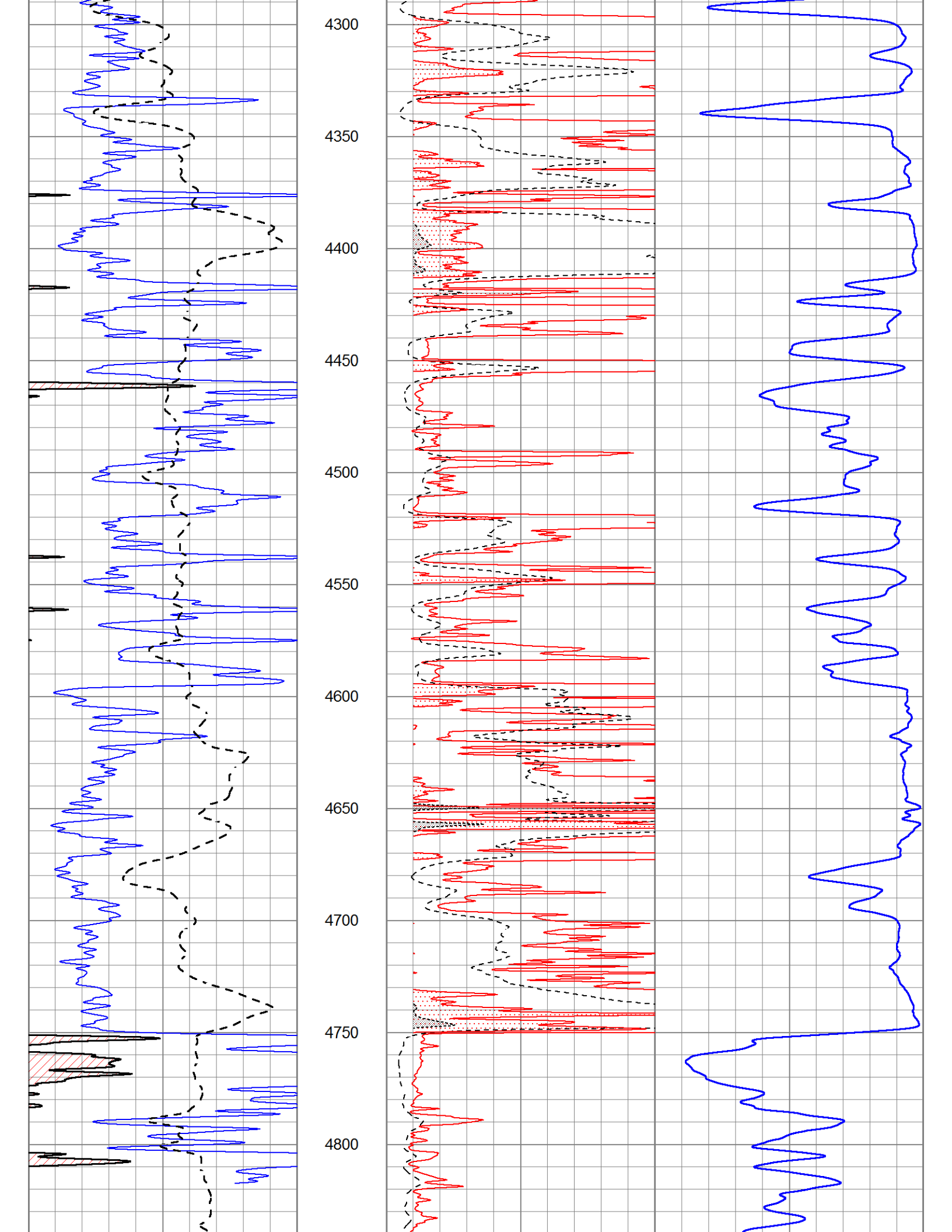

1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050

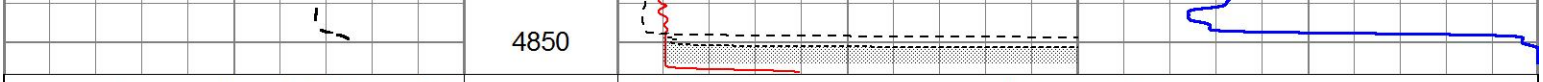

2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600


2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150


3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700

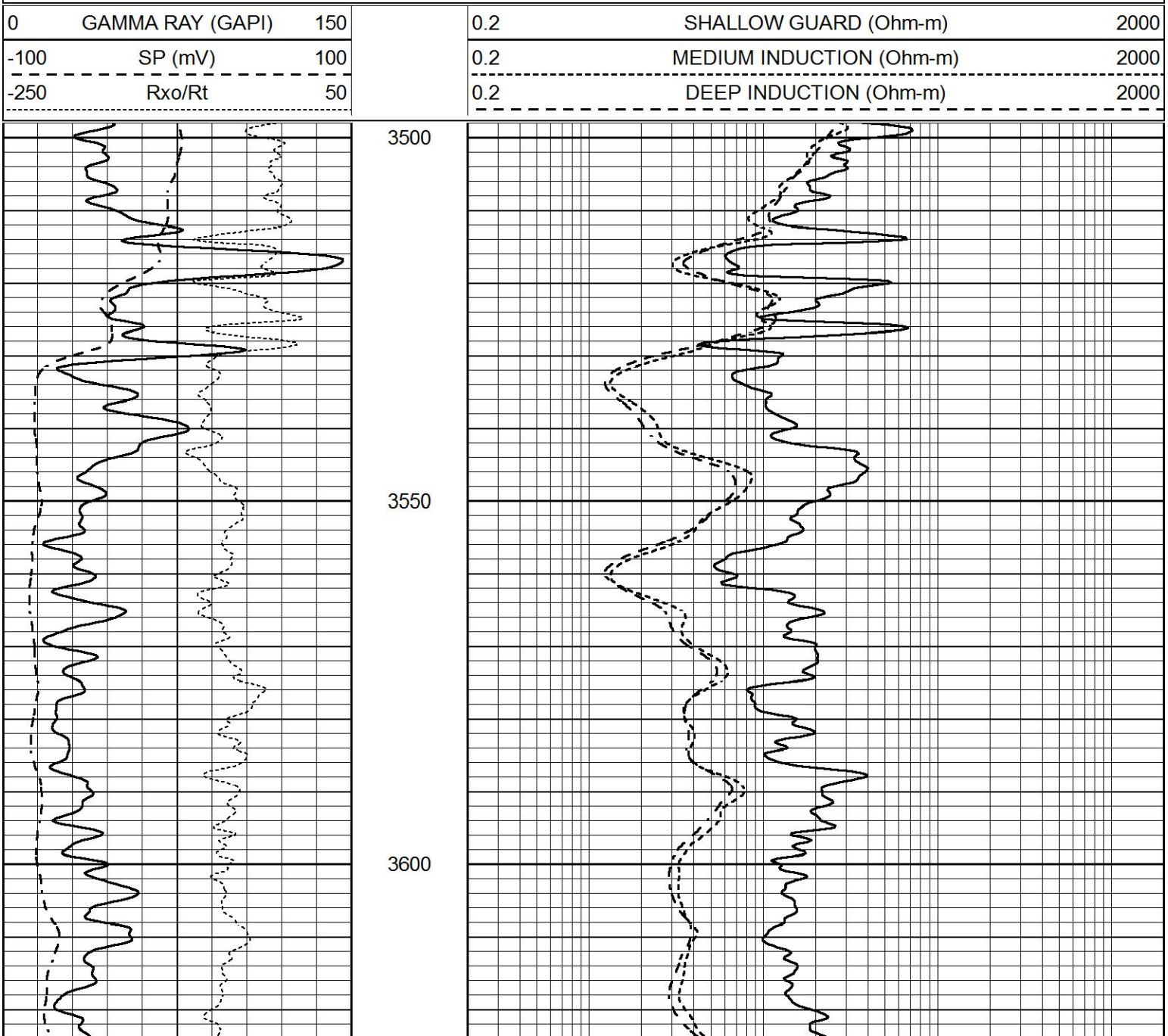

3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250

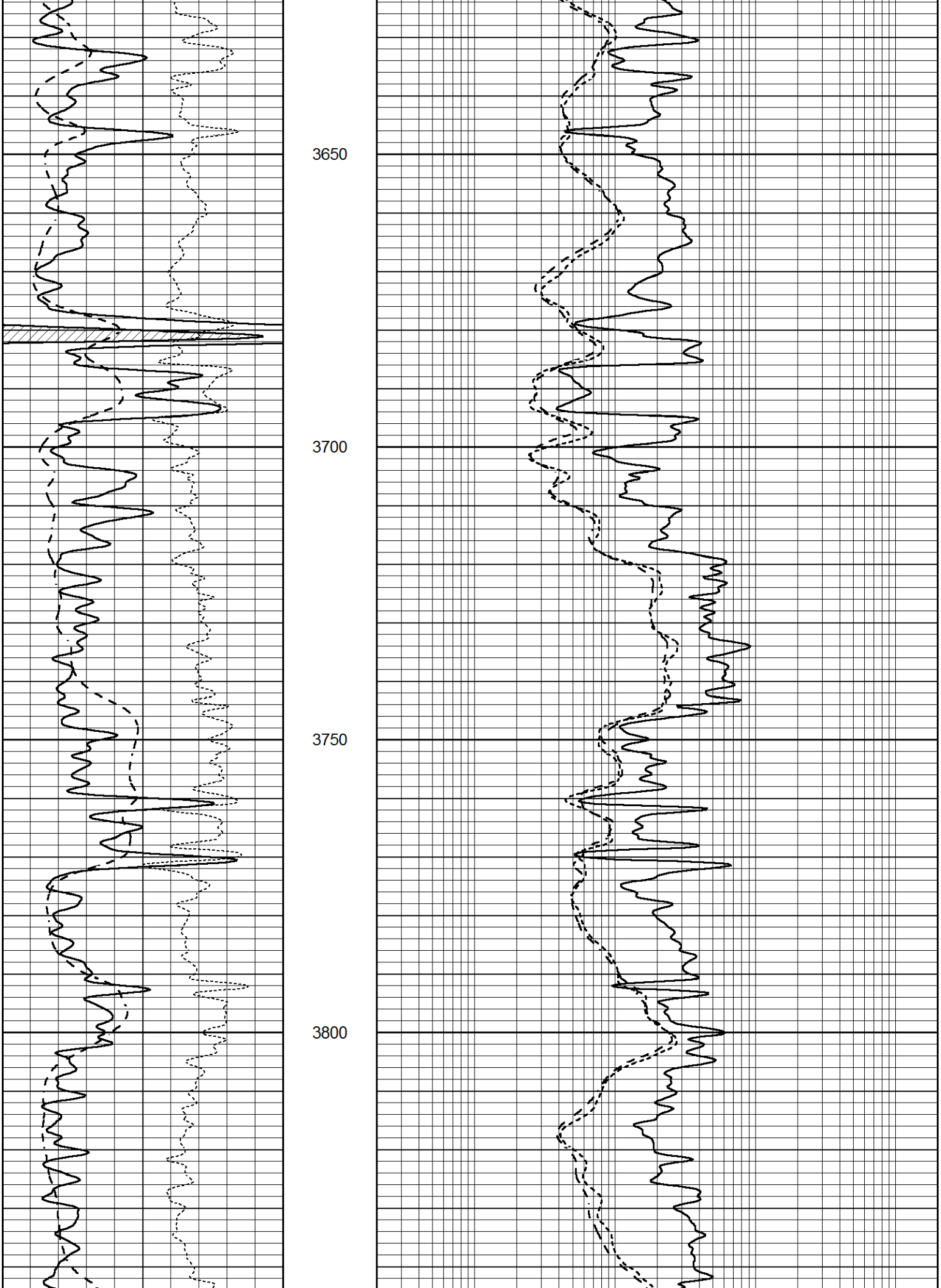

4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800

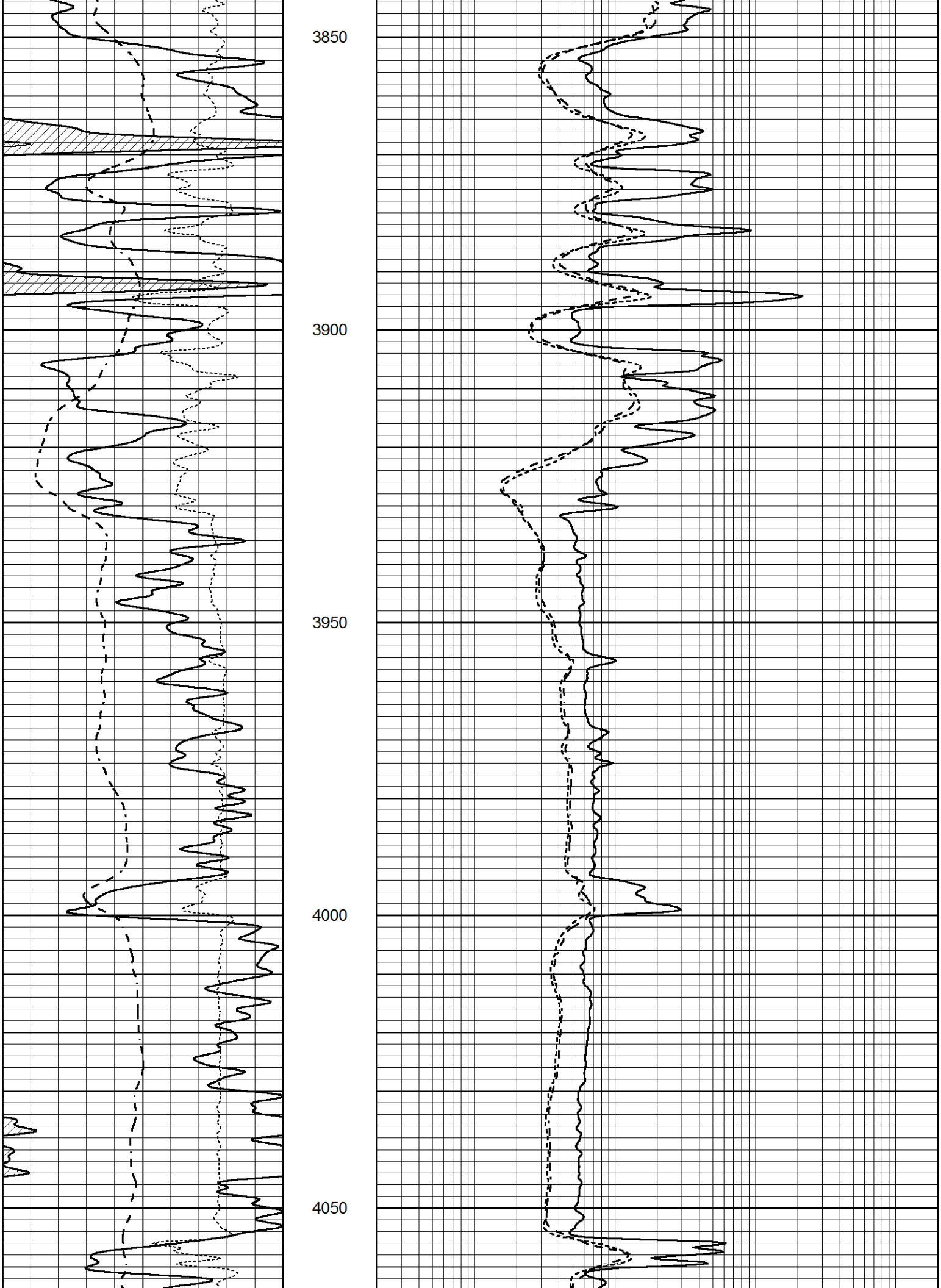


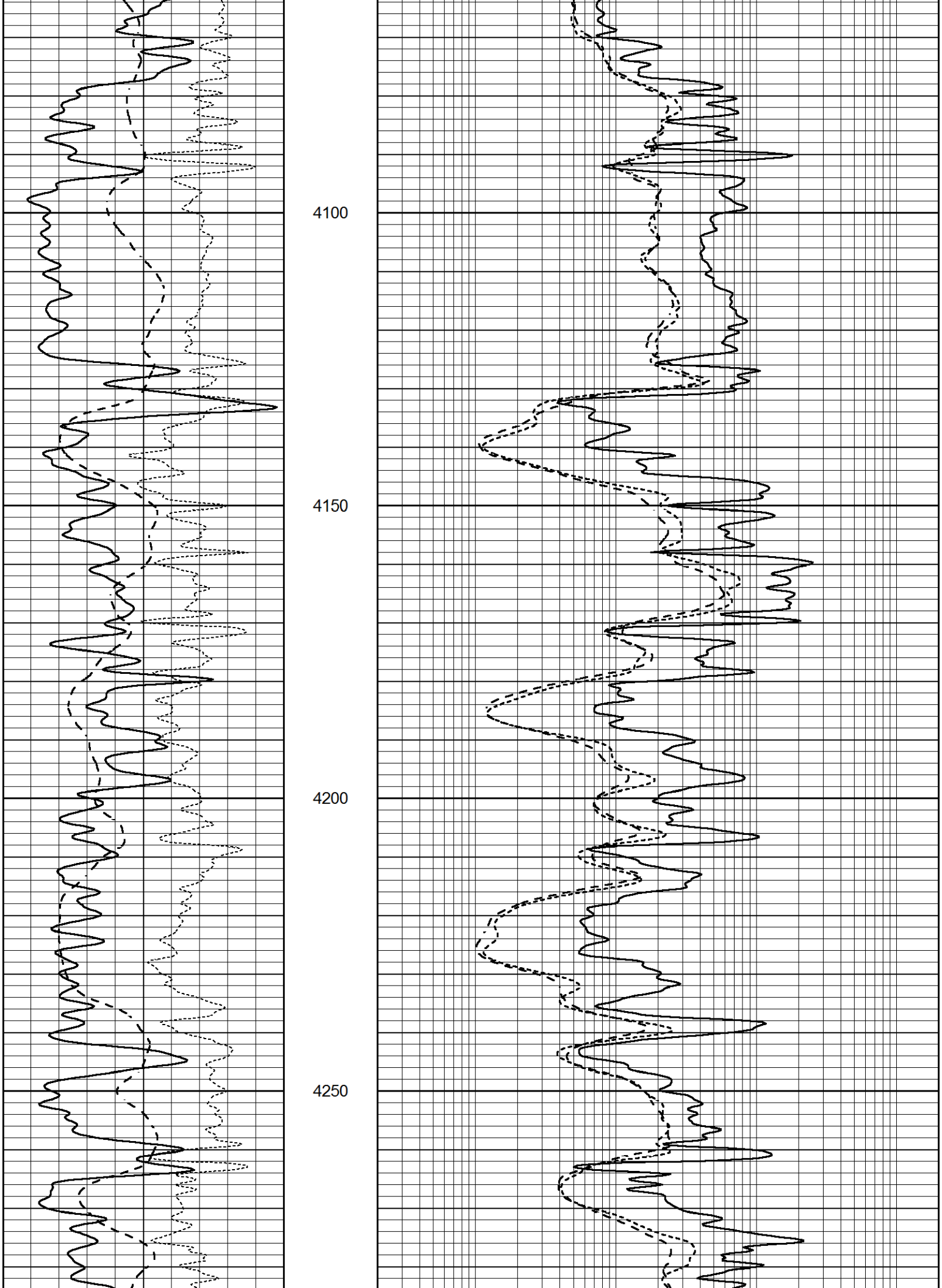
MAIN SECTION

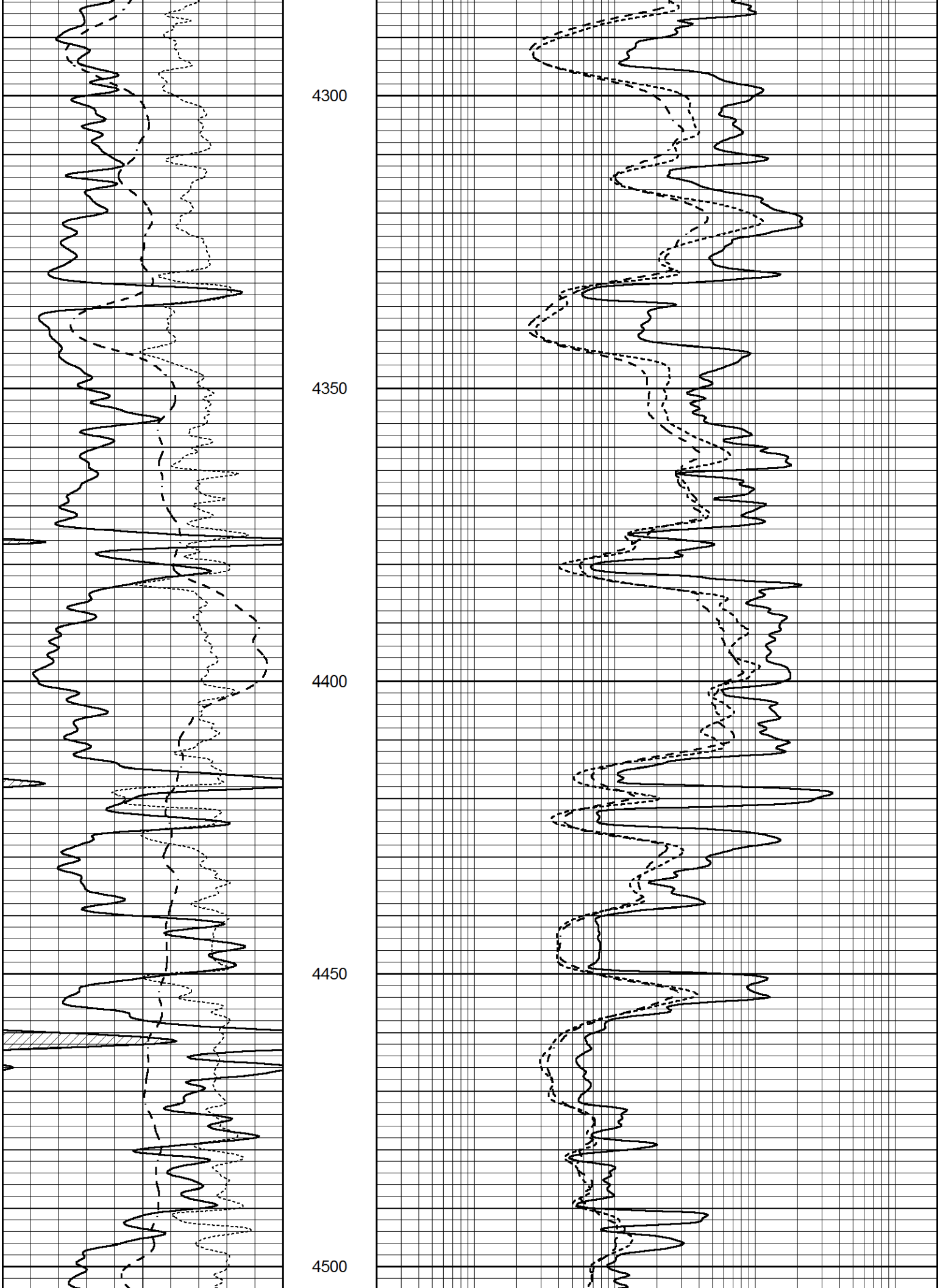
Database File	4726pe.db
Dataset Pathname	pass3.1
Presentation Format	_dil
Dataset Creation	Sun Feb 02 02:38:53 2020
Charted by	Depth in Feet scaled 1:240

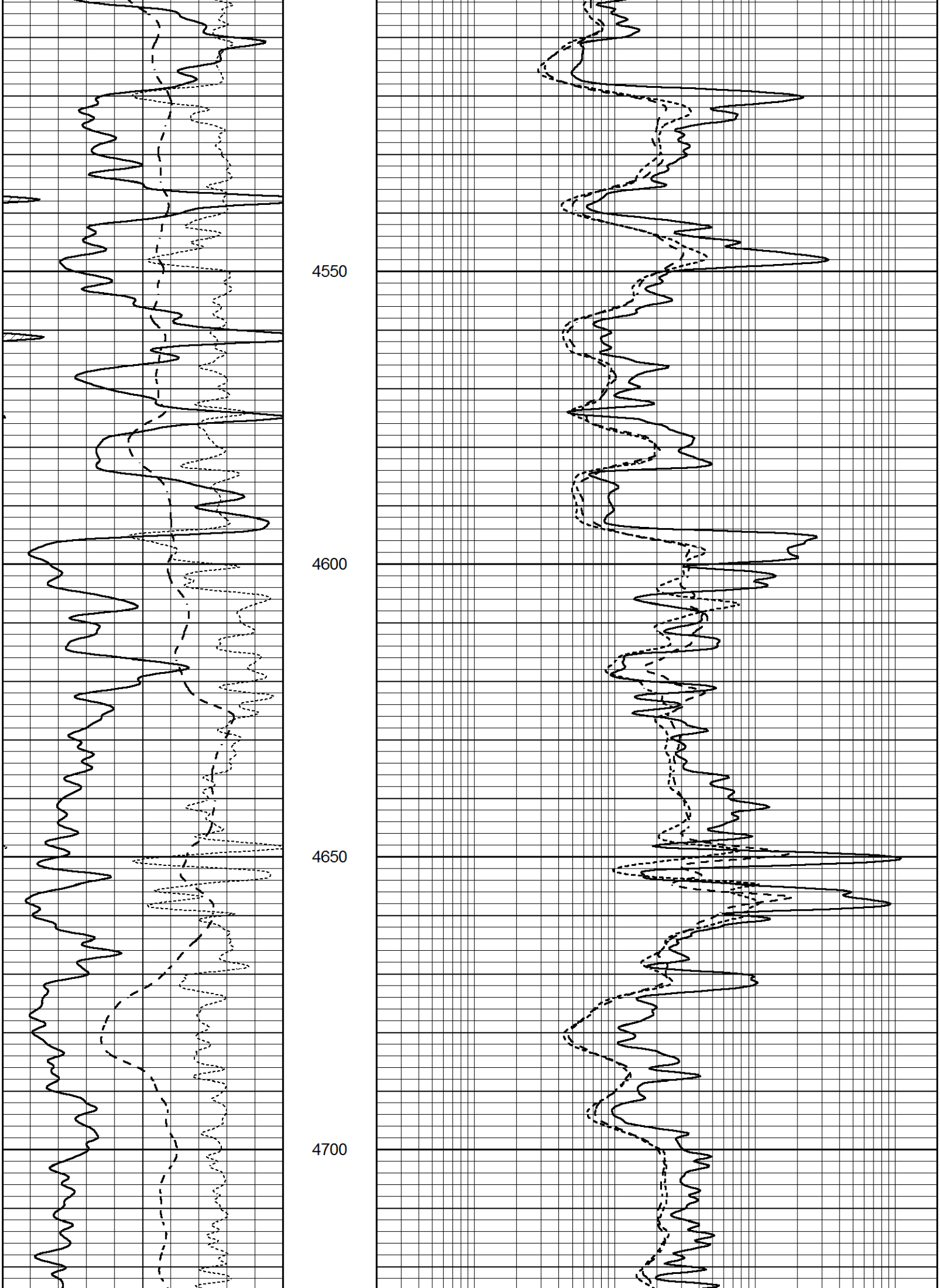


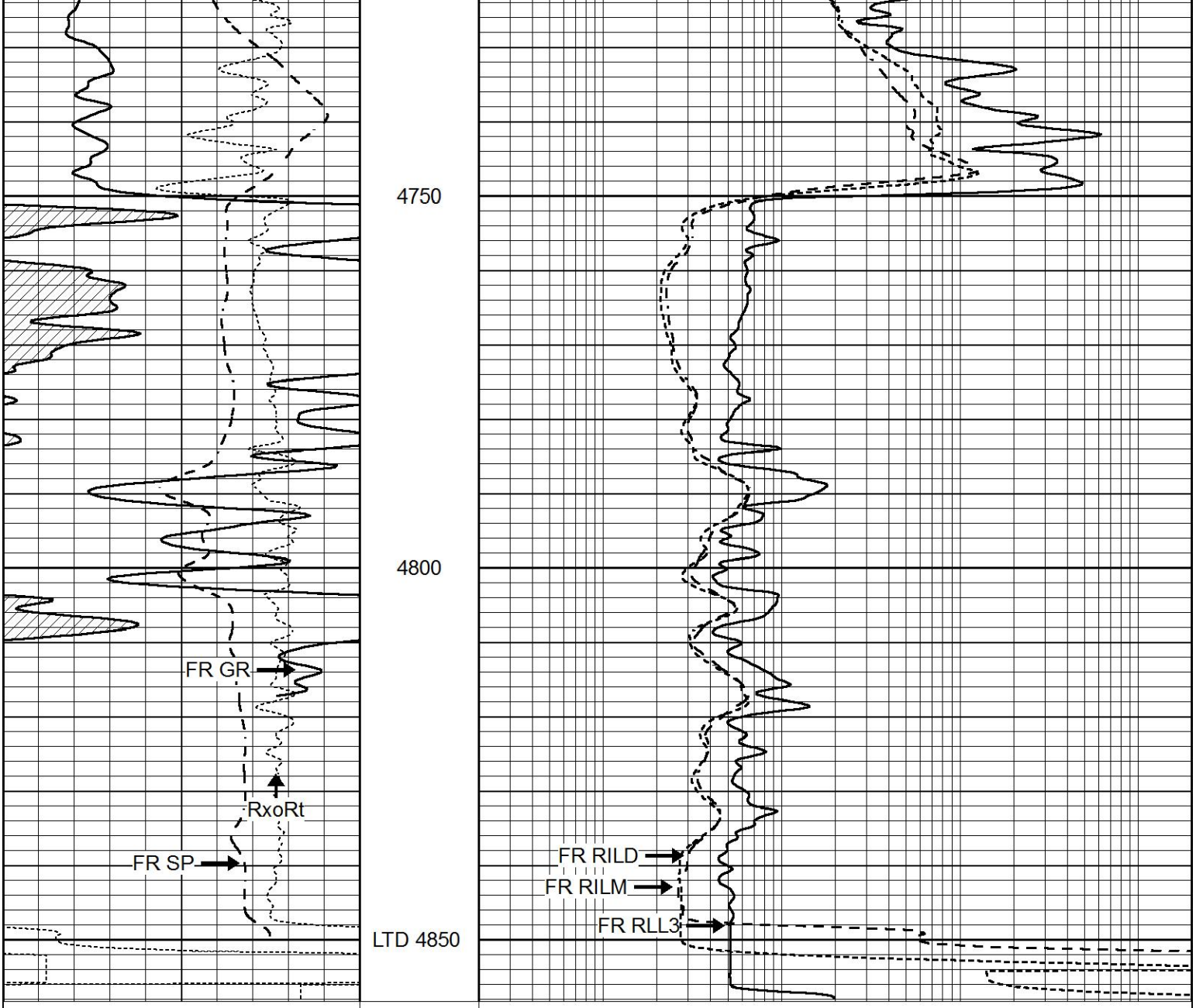

3650
3700
3750
3800


3850
3900
3950
4000
4050


4100
4150
4200
4250


4300
4350
4400
4450
4500


4550
4600
4650
4700



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

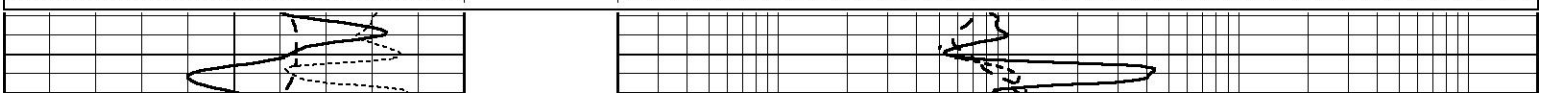
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

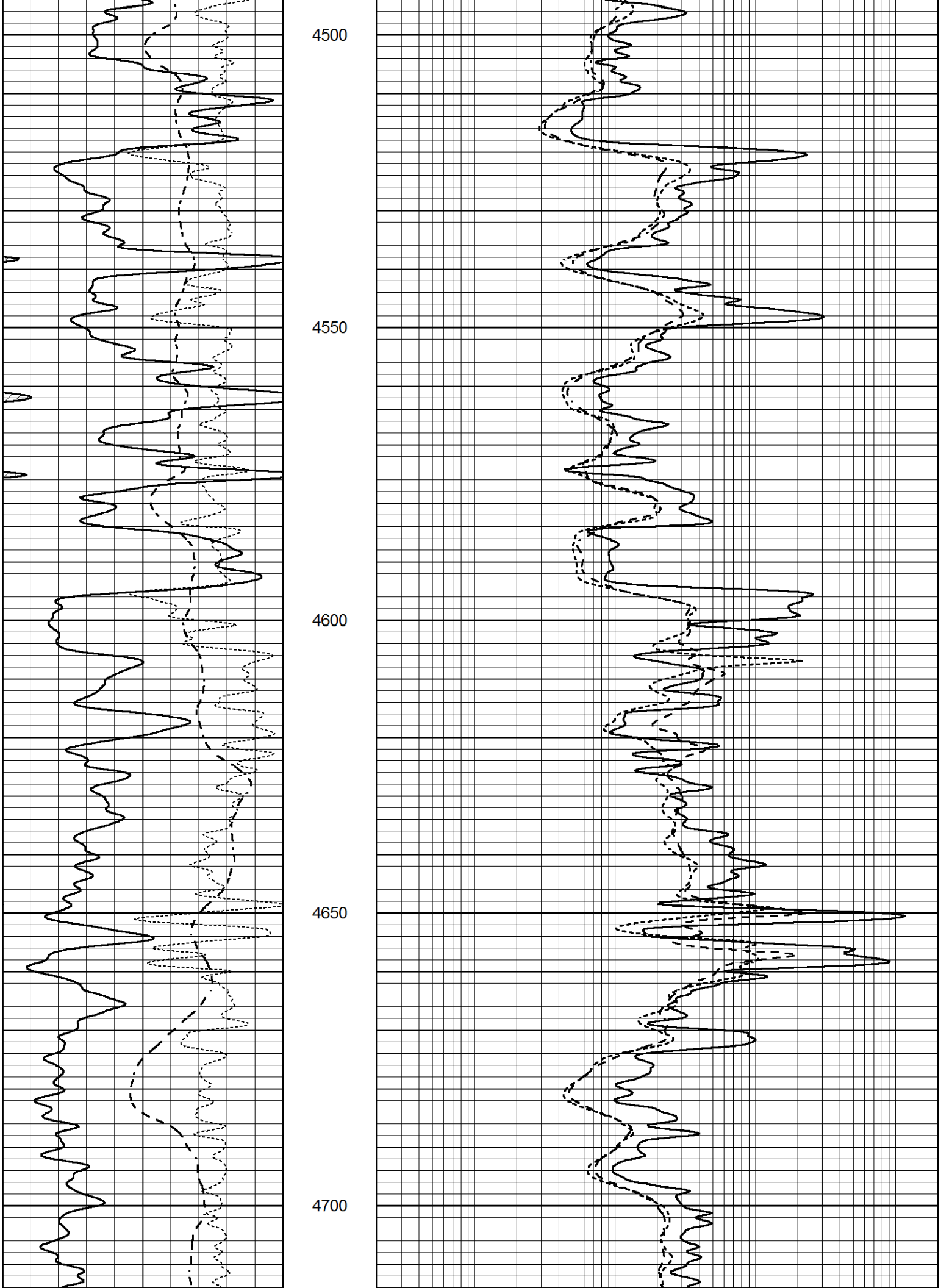
REPEAT SECTION

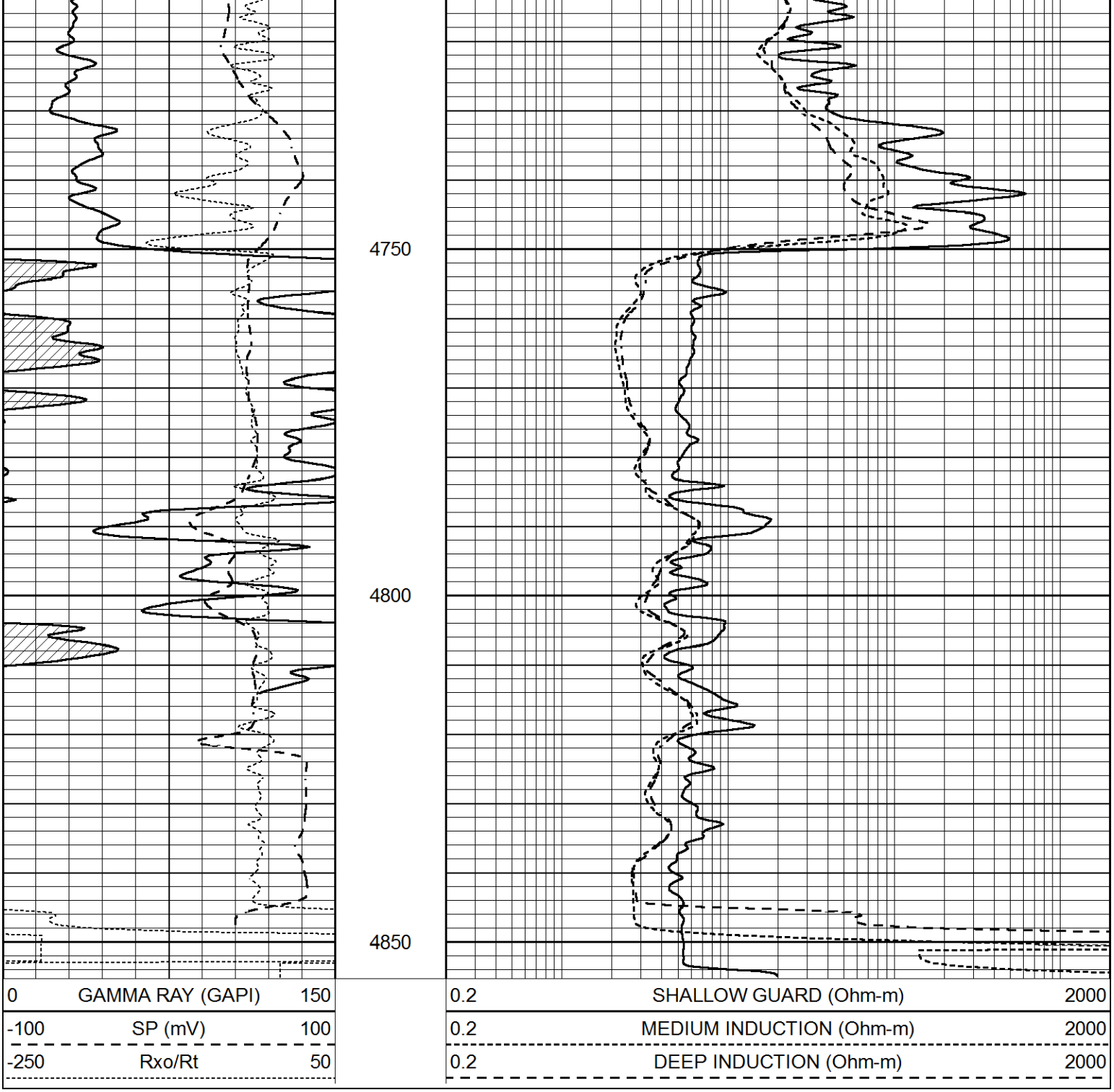
Database File	4726pe.db
Dataset Pathname	pass2.1
Presentation Format	_dil
Dataset Creation	Sun Feb 02 02:37:34 2020
Charted by	Depth in Feet scaled 1:240

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




4500
4550
4600
4650
4700



Calibration Report

Database File	4726pe.db
Dataset Pathname	pass2.1
Dataset Creation	Sun Feb 02 02:37:34 2020

Dual Induction Calibration Report

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Tue Feb 19 11:44:18 2019
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	618.595	-5.594

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		m'	b'
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		

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: Tue Dec 10 10:02:55 2019

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5400 GAPI/cps