



COMPENSATED DENSITY/NEUTRON PE LOG

Company THOROUGHbred ASSOCIATES, LLC.

Well MILLER FARMS #32-1

Field

County COMANCHE State KANSAS

Location: API # : 15-033-21791-0000

673' FSL & 1116' FWL

SEC 32 TWP 31S RGE 18W

Permanent Datum GROUND LEVEL Elevation 2140

Log Measured From KELLY BUSHING 11' A.G.L.

Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL
SONIC

Elevation

K.B. 2151
D.F. 2149
G.L. 2140

Date 11/7/21

Run Number ONE

Depth Driller 6060

Depth Logger 6070

Bottom Logged Interval 6046

Top Log Interval 4100

Casing Driller 8 5/8" @ 681

Casing Logger 681

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.3/50

pH / Fluid Loss 8.5/11.2

Source of Sample FLOWLINE

Rm @ Meas. Temp .85 @ 65F

Rmf @ Meas. Temp .63 @ 65F

Rmc @ Meas. Temp 1.02 @ 65F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .41 @ 134F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom

Maximum Recorded Temperature 134F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By AARON YOUNG

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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

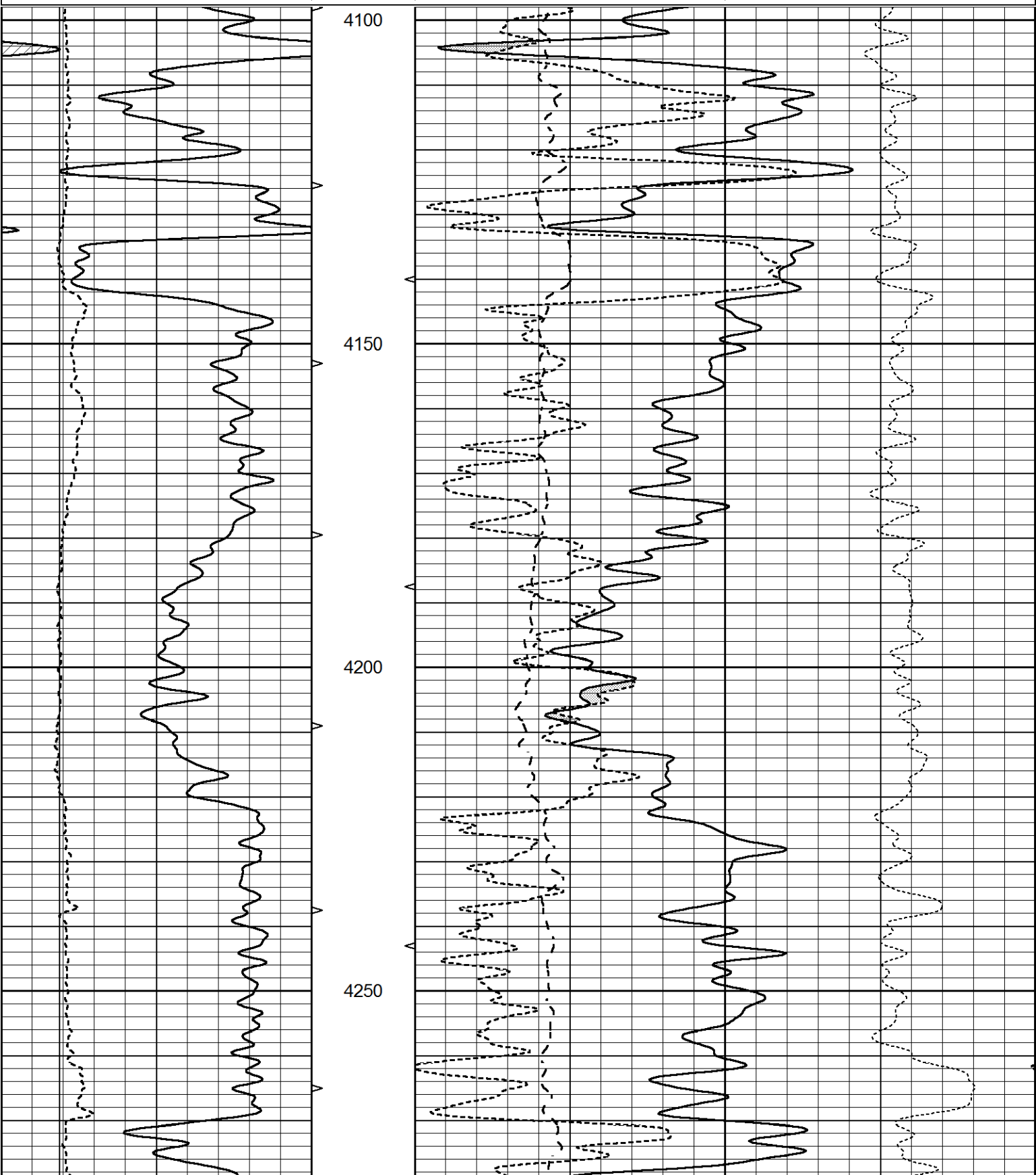
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
COLDWATER, KS. - 2 NORTH TO AVE. F - 1 EAST - 3/4 SOUTH - WEST INTO

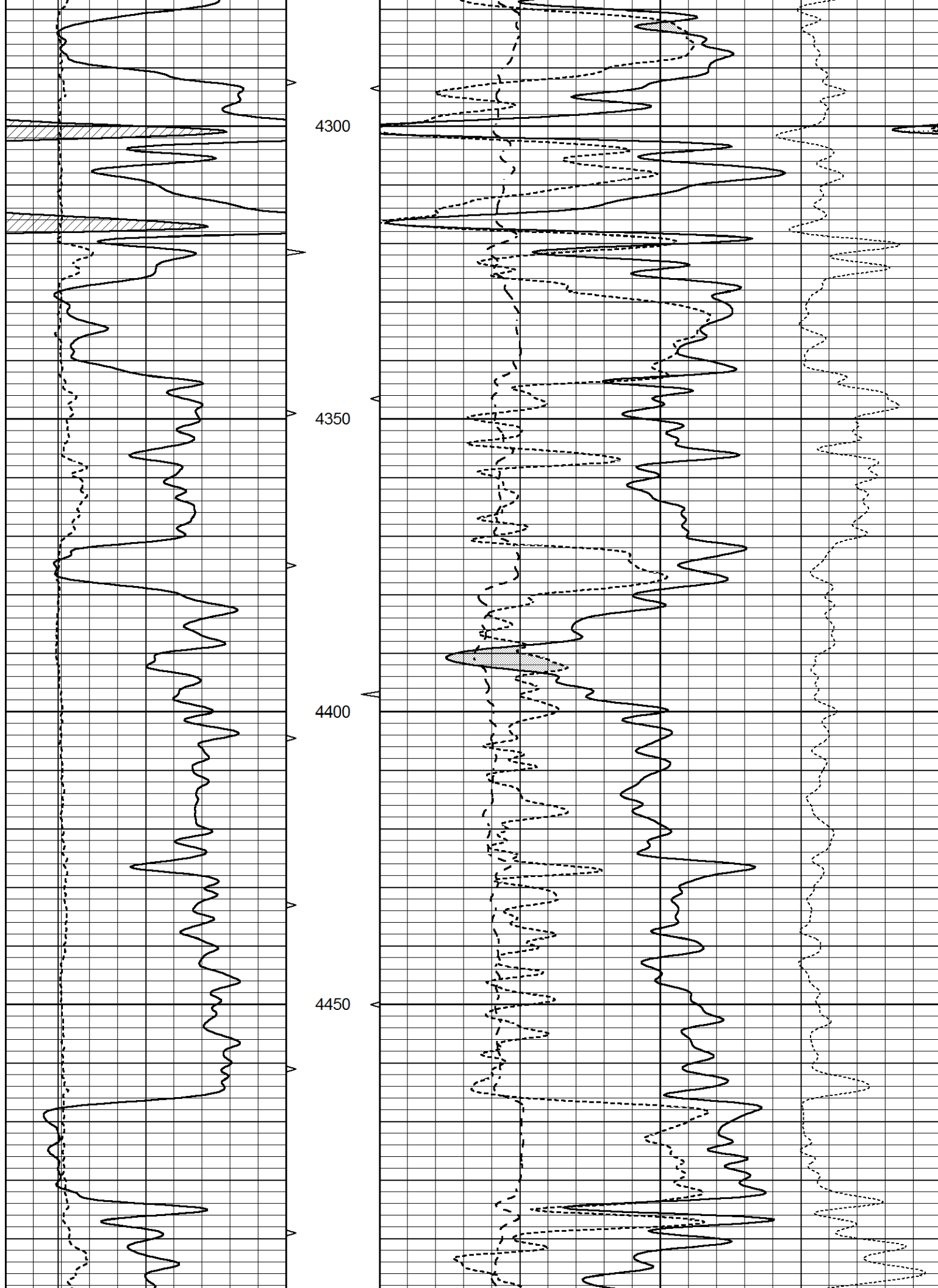


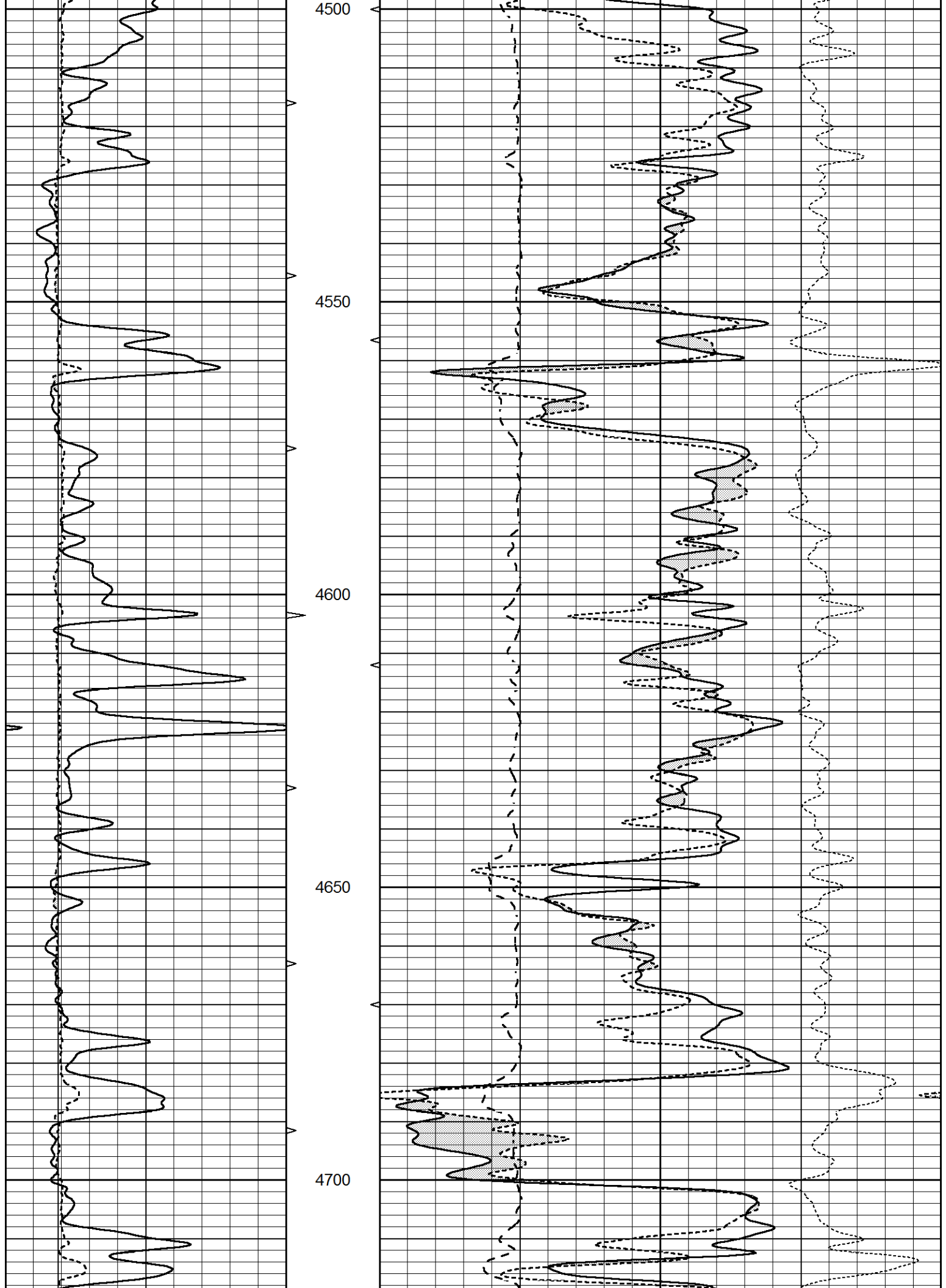
MAIN SECTION

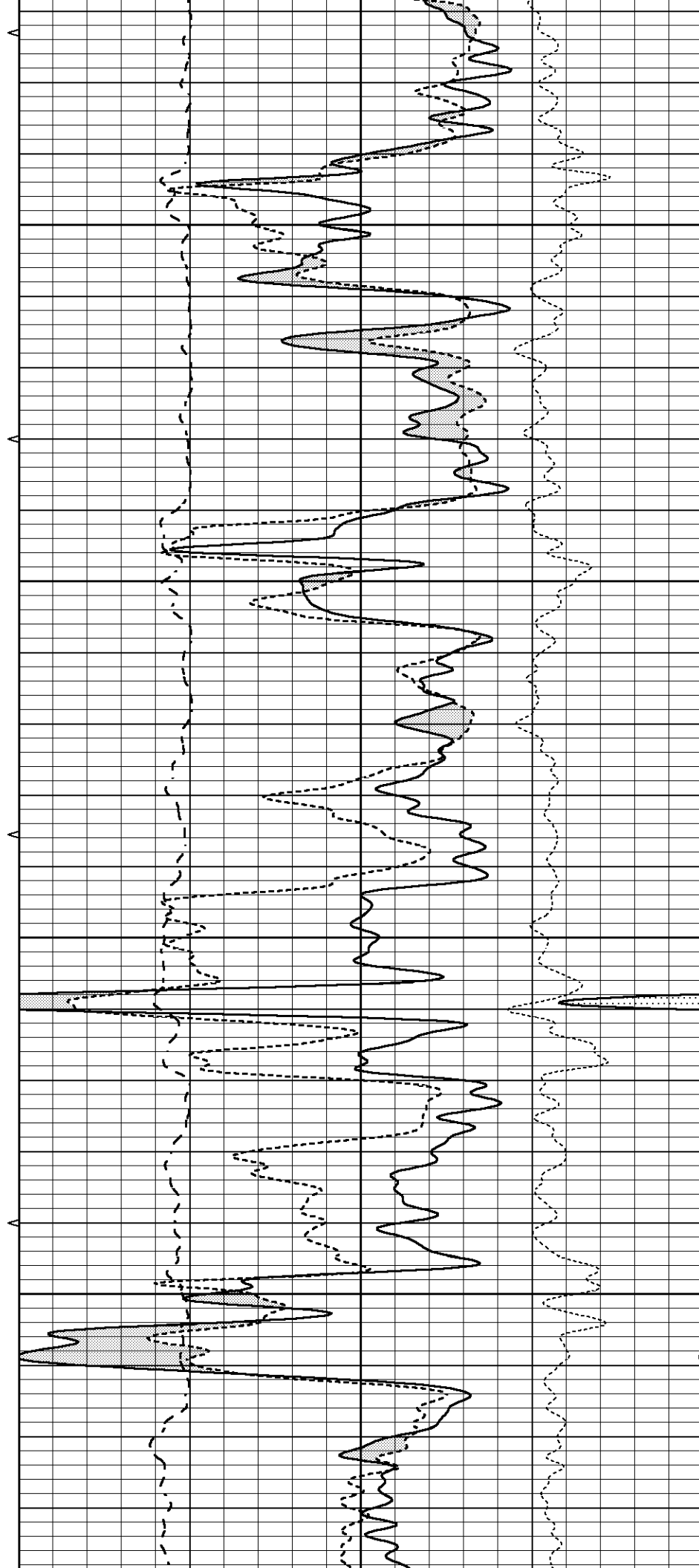
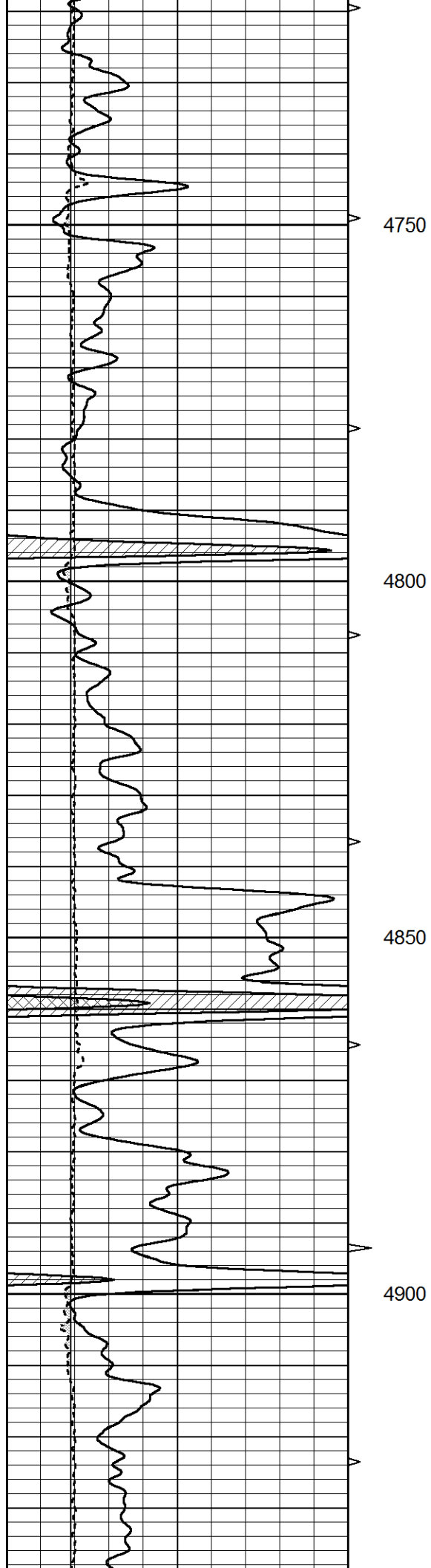
Database File	5874pe.db
Dataset Pathname	pass3.1
Presentation Format	_ldt_neu
Dataset Creation	Sun Nov 07 23:54:33 2021
Charted by	Depth in Feet scaled 1:240

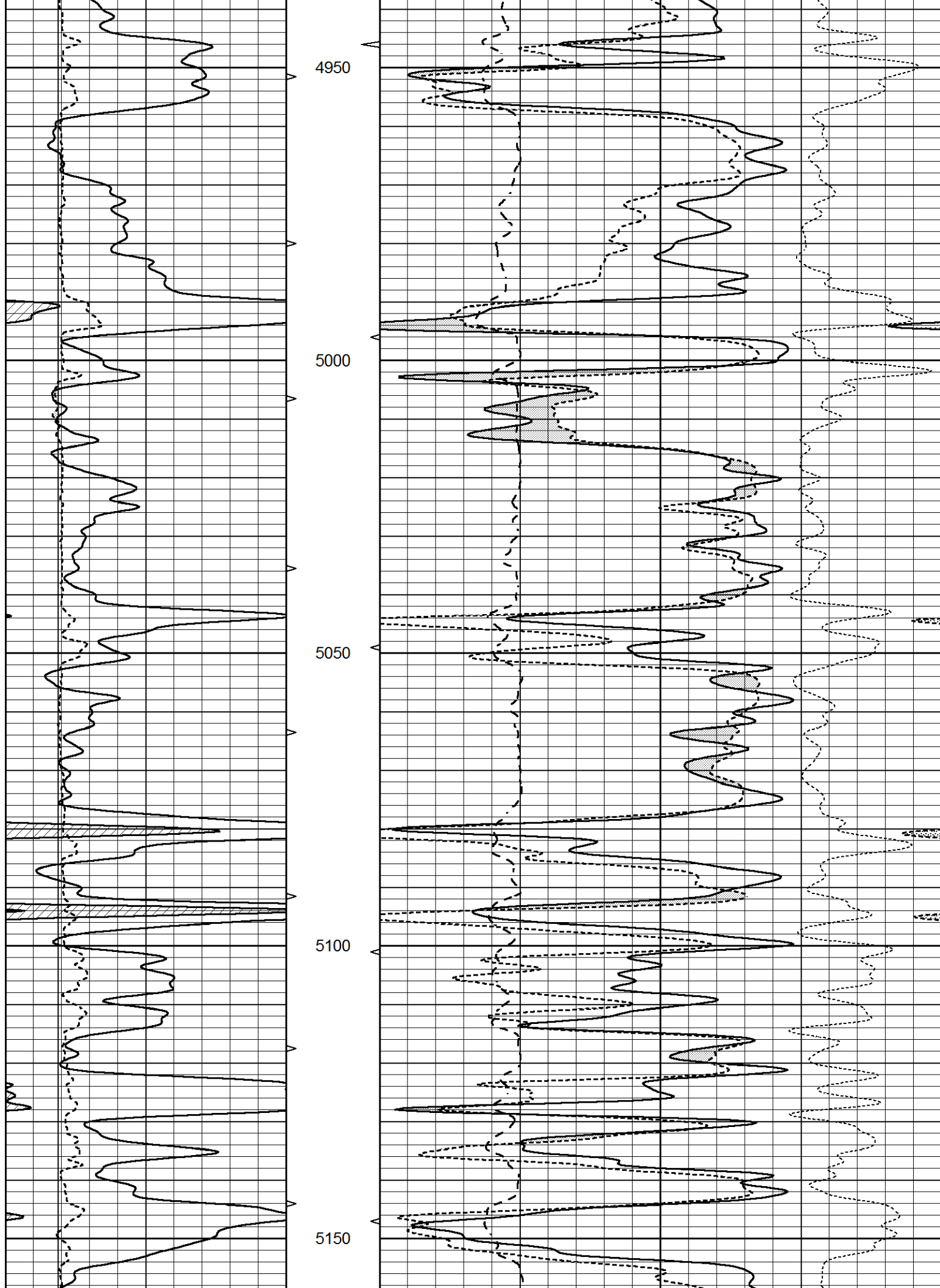
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10
			0 (ft3)	10	-0.25	CORRECTION (g/cc)
						0.25
						0
						LTEN (lb)
						5000

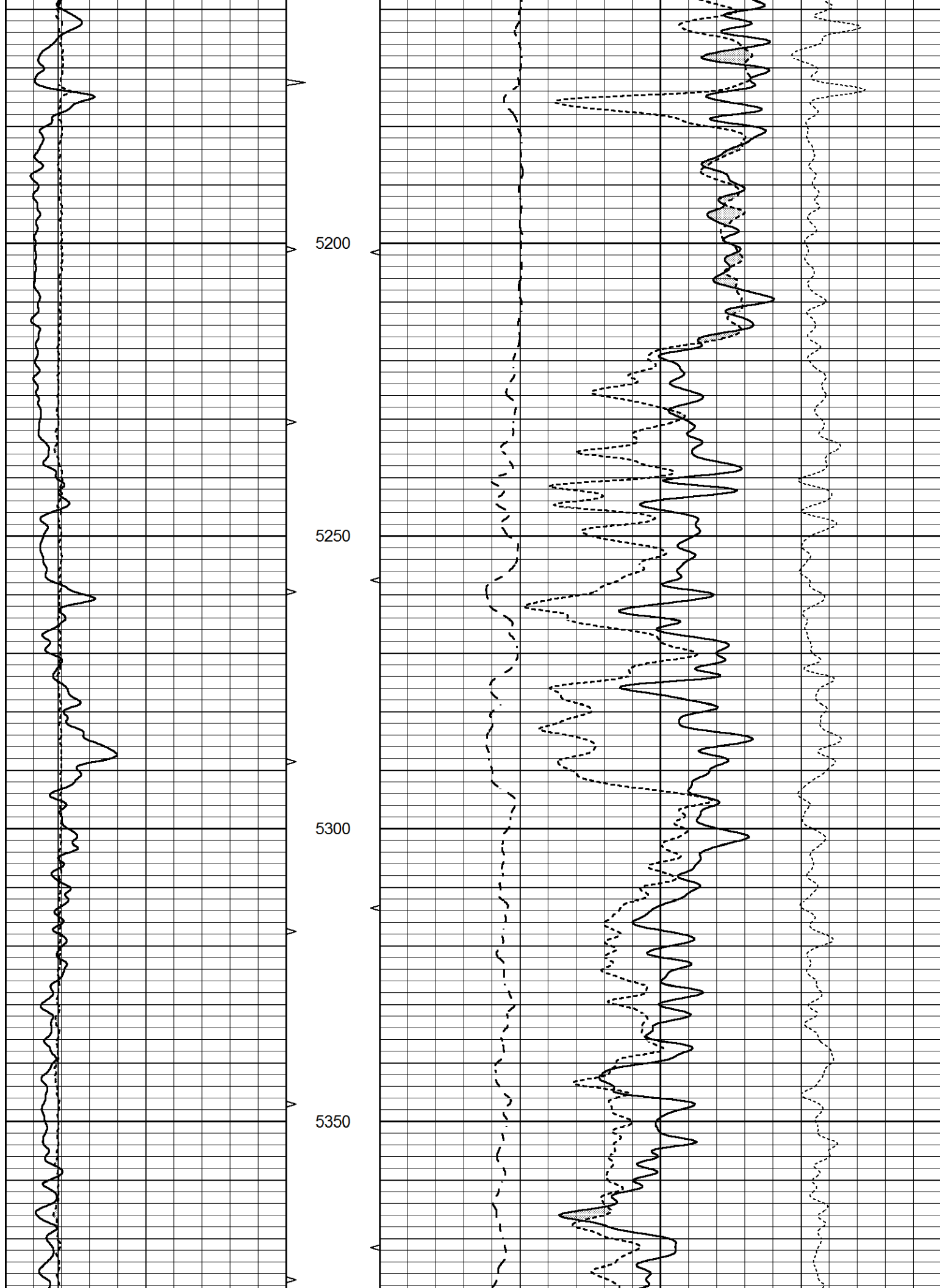


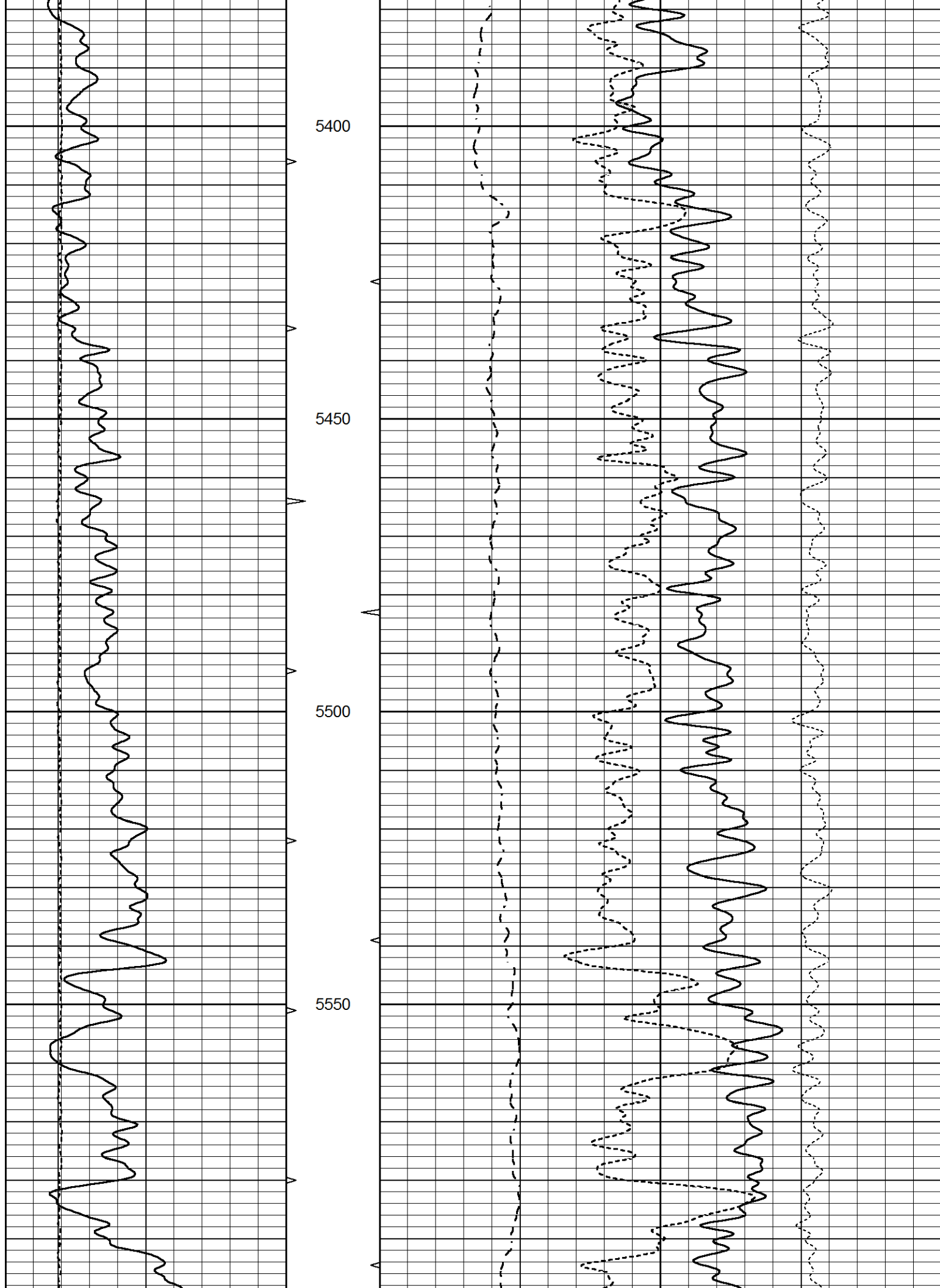


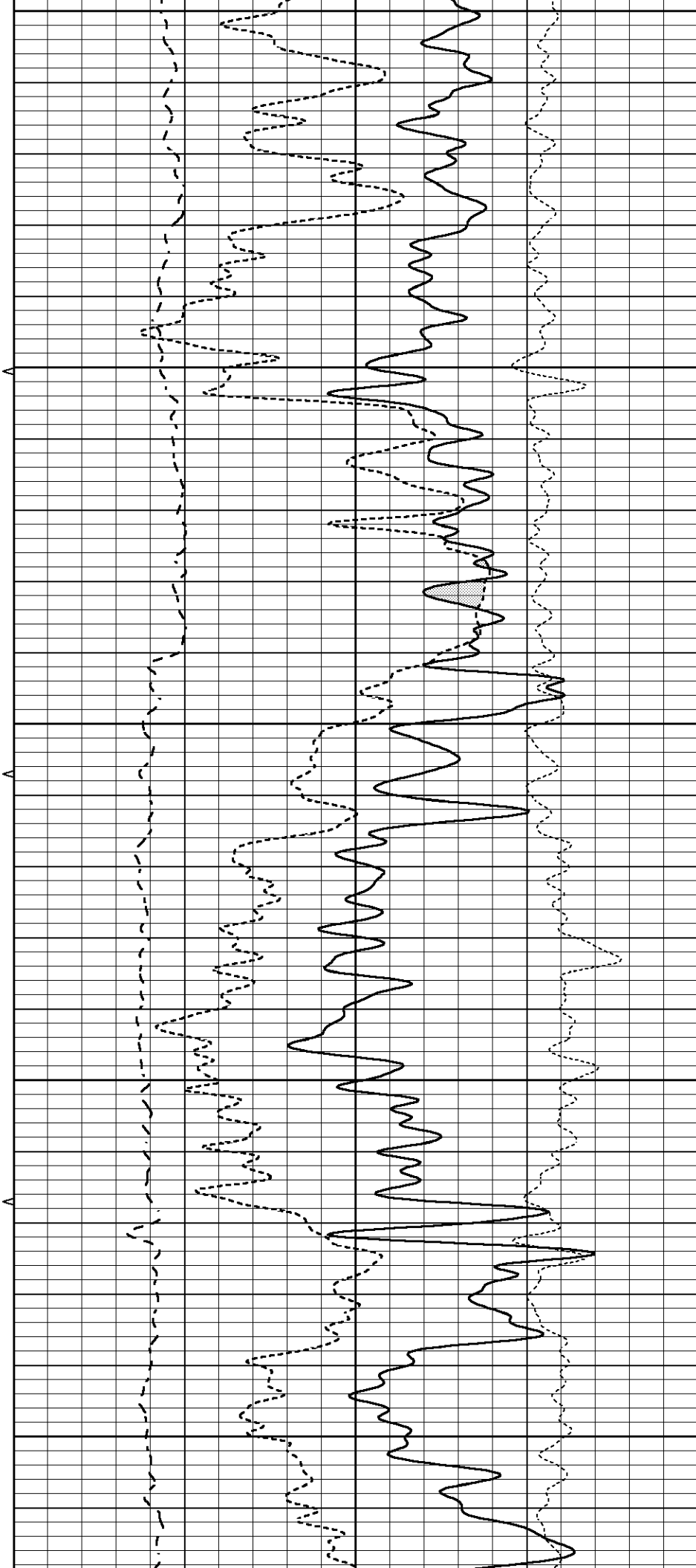
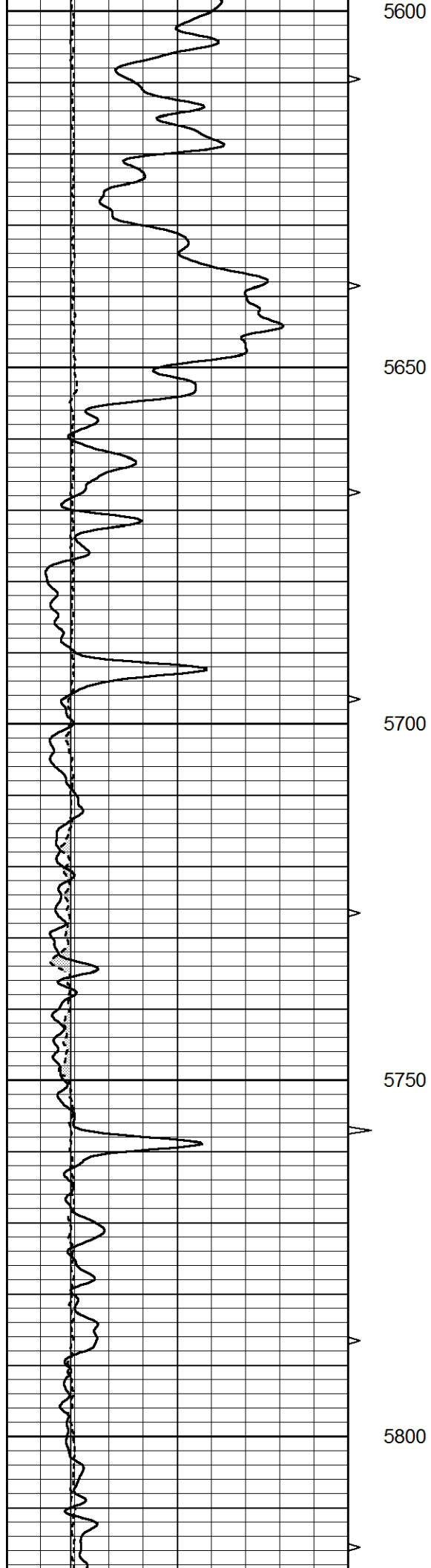


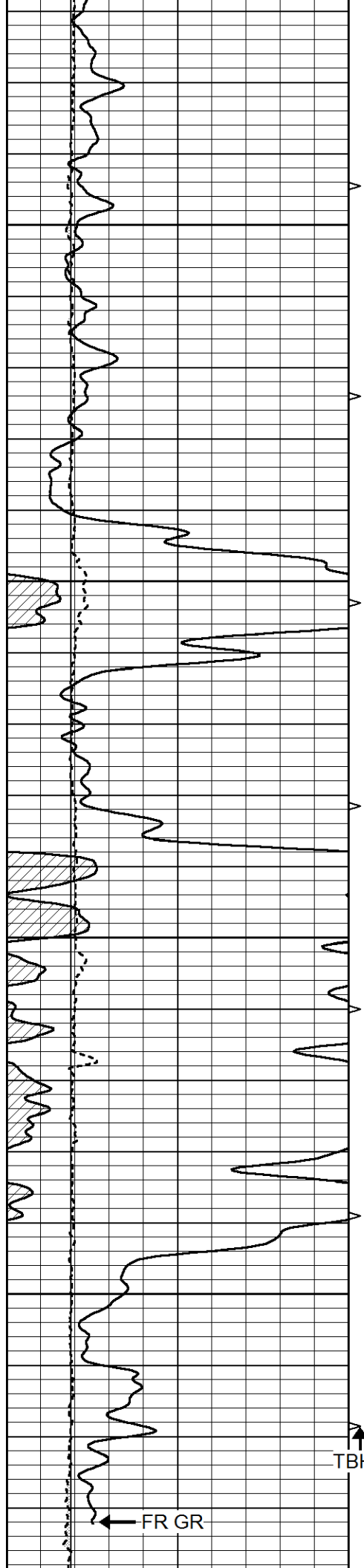












5850

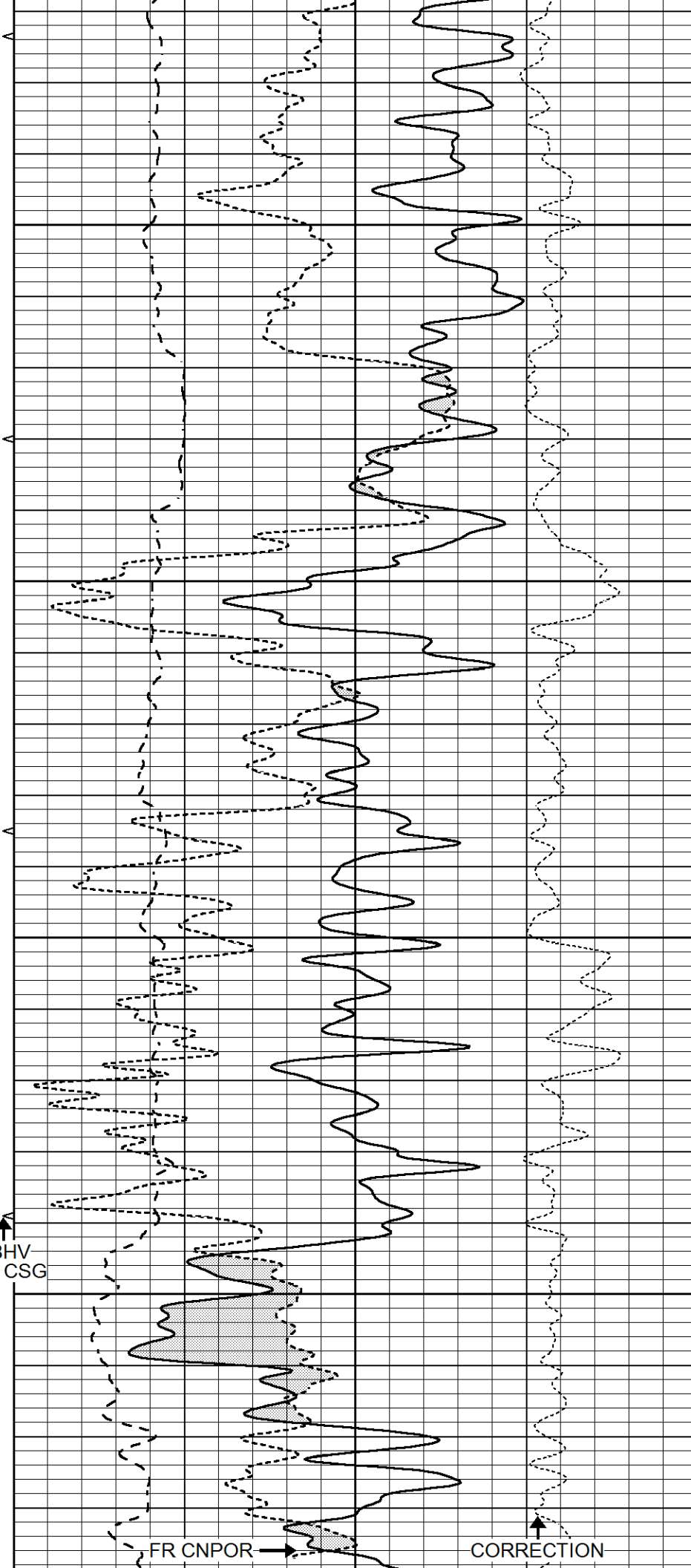
5900

5950

ABHV
5.5" CSG
6000

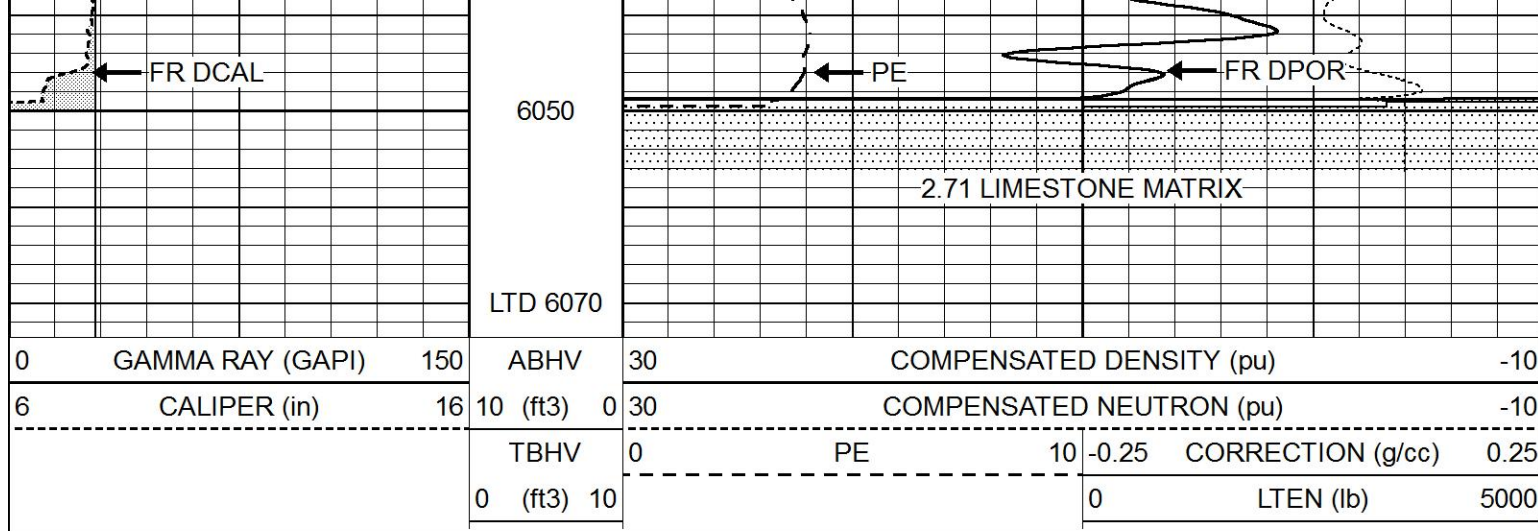
TBHV

FR GR



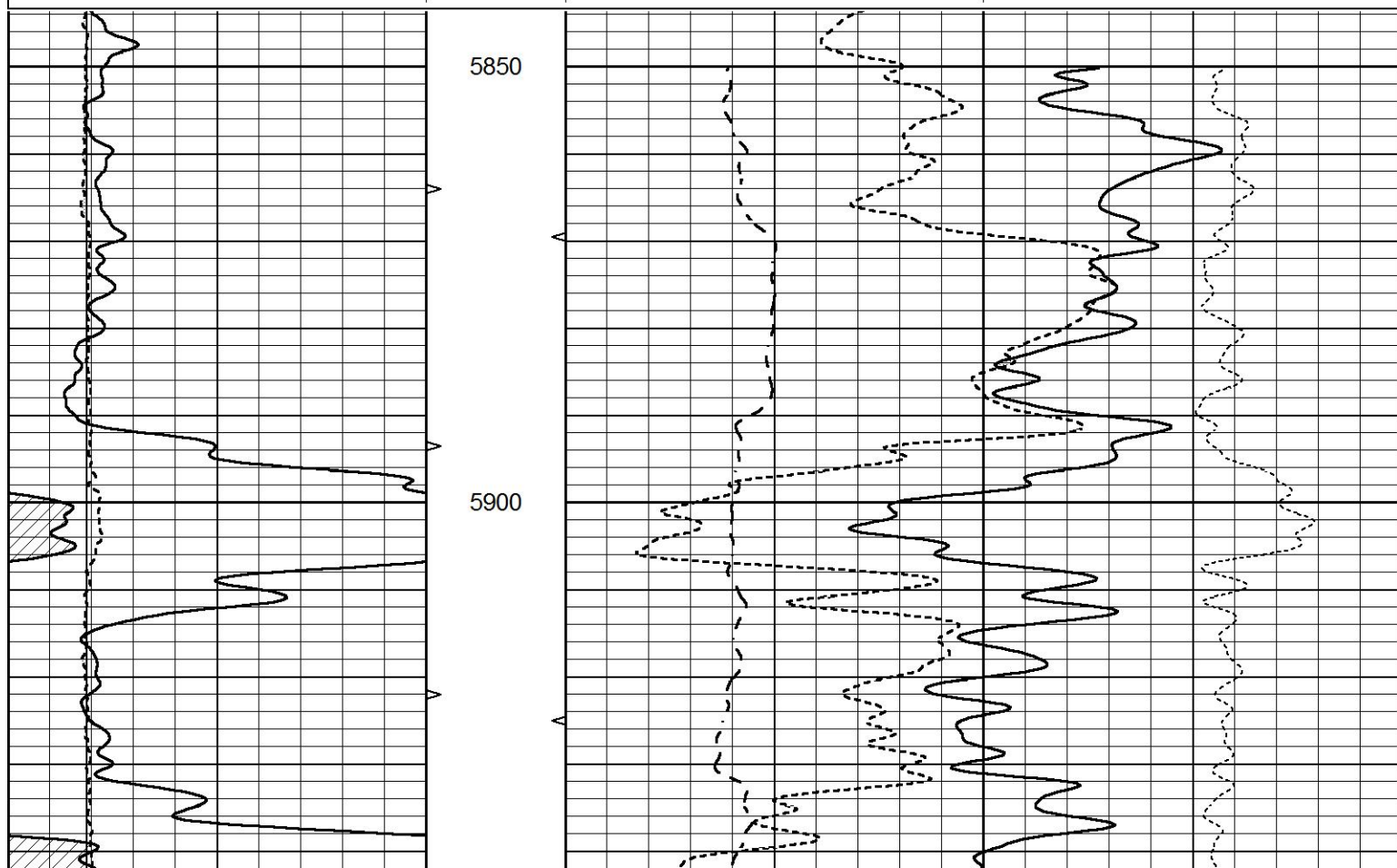
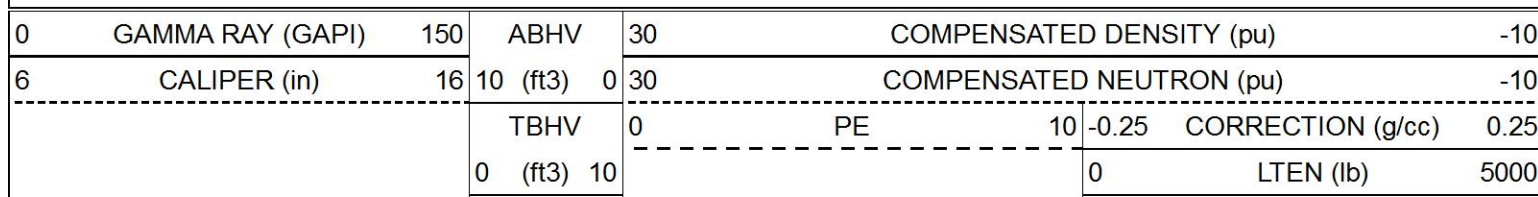
FR CNPOR

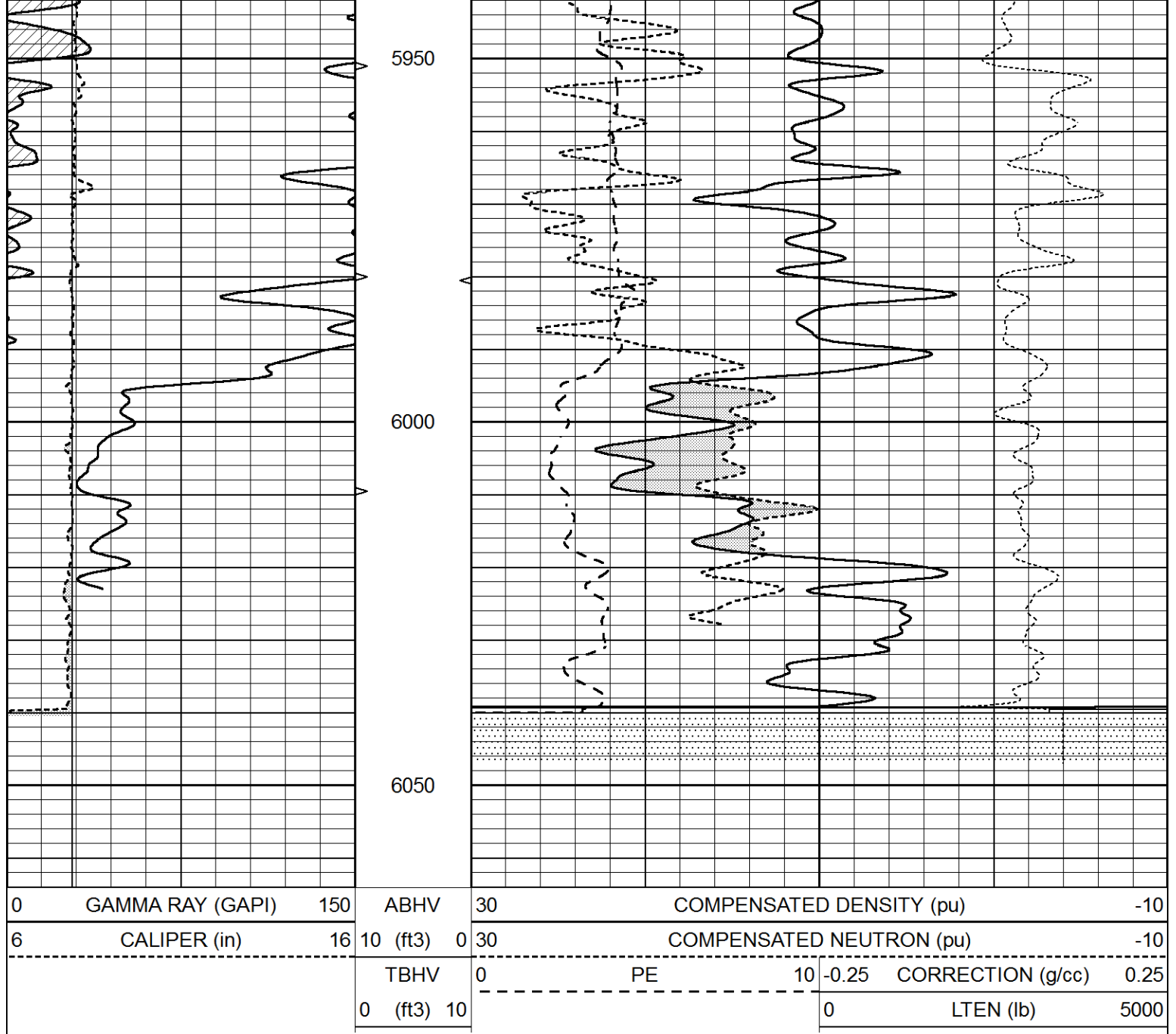
CORRECTION



REPEAT SECTION

Database File 5874pe.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Sun Nov 07 23:52:12 2021
 Charted by Depth in Feet scaled 1:240





Calibration Report								
Database File	5874pe.db							
Dataset Pathname	pass2.1							
Dataset Creation	Sun Nov 07 23:52:12 2021							
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	430.000	mmho/m	665.106	-6.015
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		

Litho Density Calibration Report								
Serial: 140704								
Model: V4_10P								
Source Number: 74GBq-19								

Master Calibration				Performed: Mon Dec 07 12:12:14 2020				
	Background		Aluminum		Magnesium			
Window 1	557.73		5525.14		24361.20	cps		
Window 2	47.08		1245.09		5901.17	cps		
Window 4	239.06		1250.70		5456.76	cps		
Window 5	564.08		8300.56		16134.07	cps		
Window 6	44.21		1356.78		2705.40	cps		
Window 8	267.87		2686.97		5150.30	cps		
Bulk Density	-		2.6020		1.6830	g/cc		
Pe	-		3.0000		2.5070	b/e		
LS Alpha:	: -1.8719		SS Alpha:	: -0.8000		LS CPE:	: 1.1424	
LS Beta:	: 135562.6841		SS Beta:	: 20128.7209		SS CPE:	: 1.5489	

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					

Window 8

0.00

cps

Lithodensity Caliper Calibration

Performed: Mon Dec 07 12:12:14 2020

Results

Readings

References (in)

Low

High

Low

High

Gain

Offset

5852.8

8972.7

8.0

14.0

0.0

-3.3

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:

7

Tool Model:

Probe1

Performed:

Tue Jan 19 17:50:08 2021

Calibrator Value:

1.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.5300

GAPI/cps