

COMPENSATED
DENSITY/NEUTRON
LOG

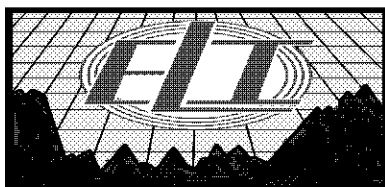
Company		GRIFFIN MANAGEMENT	
Well	#2 MILLS		
Field	SKINNER		
County	BARBER	State	KANSAS
Location:		API #: 15-007-24337-0000	
Permanent Datum		GROUND LEVEL Elevation 1654	
Log Measured From		KELLY BUSHING 5' A.G.L	
Drilling Measured From		KELLY BUSHING	
SEC 9 TWP 31S RGE 14W		Elevation	
		K.B. 1659	
		D.F. 1657	
		G.L. 1654	
Date	8/25/18		
Run Number	ONE		
Depth Driller	4650		
Depth Logger	4656		
Bottom Logged Interval	4632		
Top Log Interval	3000		
Casing Driller	8 5/8" @ 260		
Casing Logger	260		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.2/55		
pH / Fluid Loss	11.0/10.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.60 @ 90F		
Rmf @ Meas. Temp	.45 @ 90F		
Rmc @ Meas. Temp	.72 @ 90F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.44 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	122F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	BRUCE REED		

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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

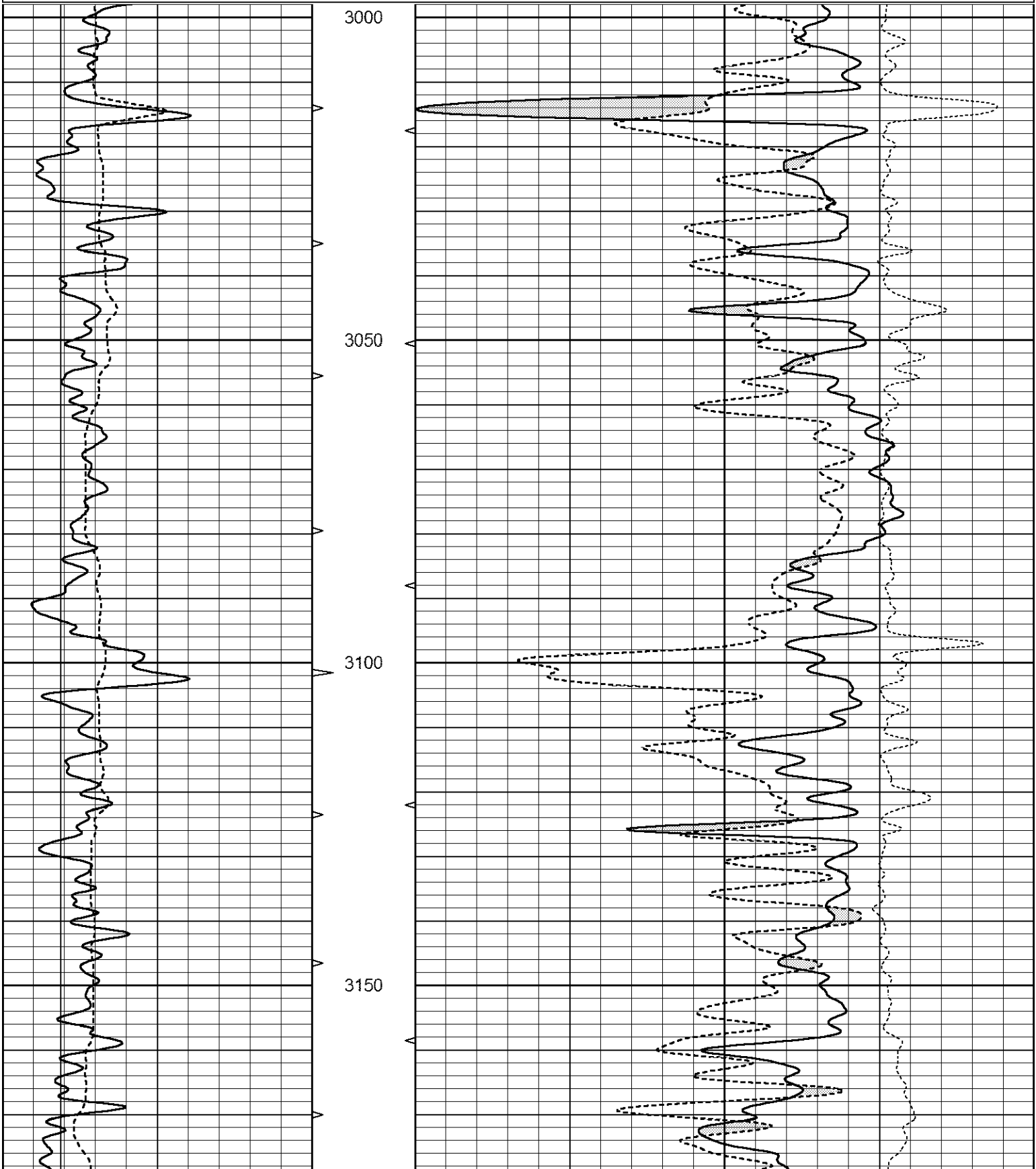
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS. - WEST ON RIVER RD. (NORTH END OF TOWN) TO LAKE CITY
2 WEST - NORTH INTO

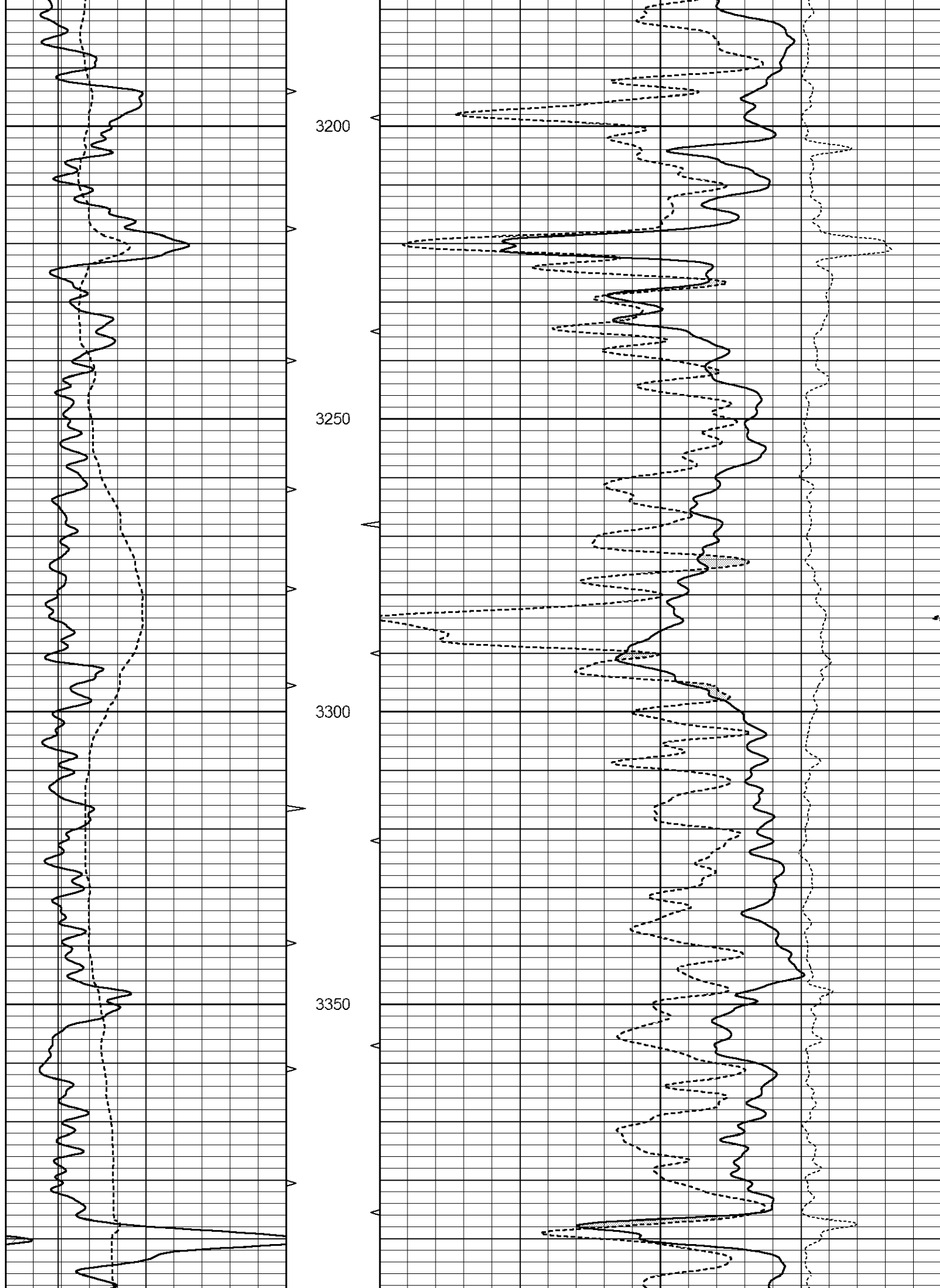


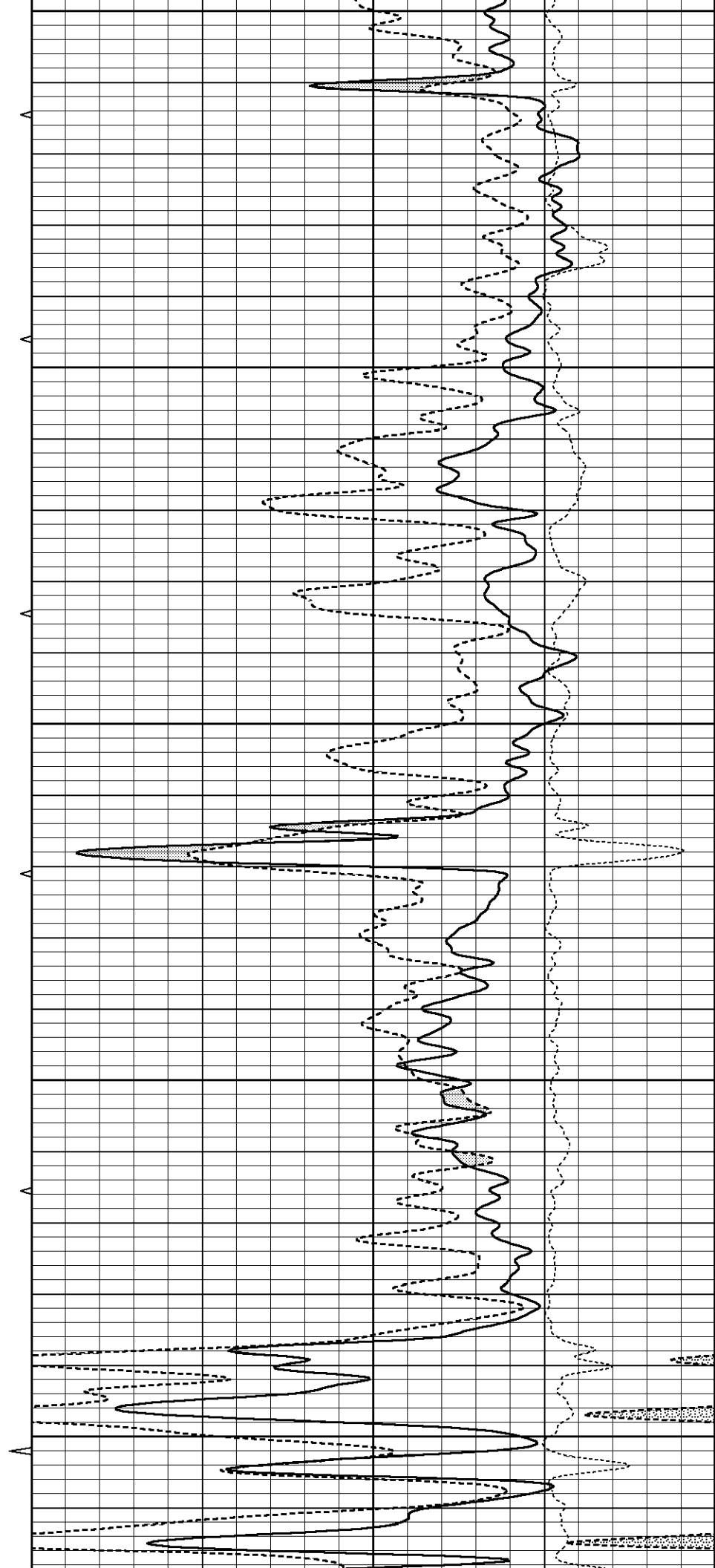
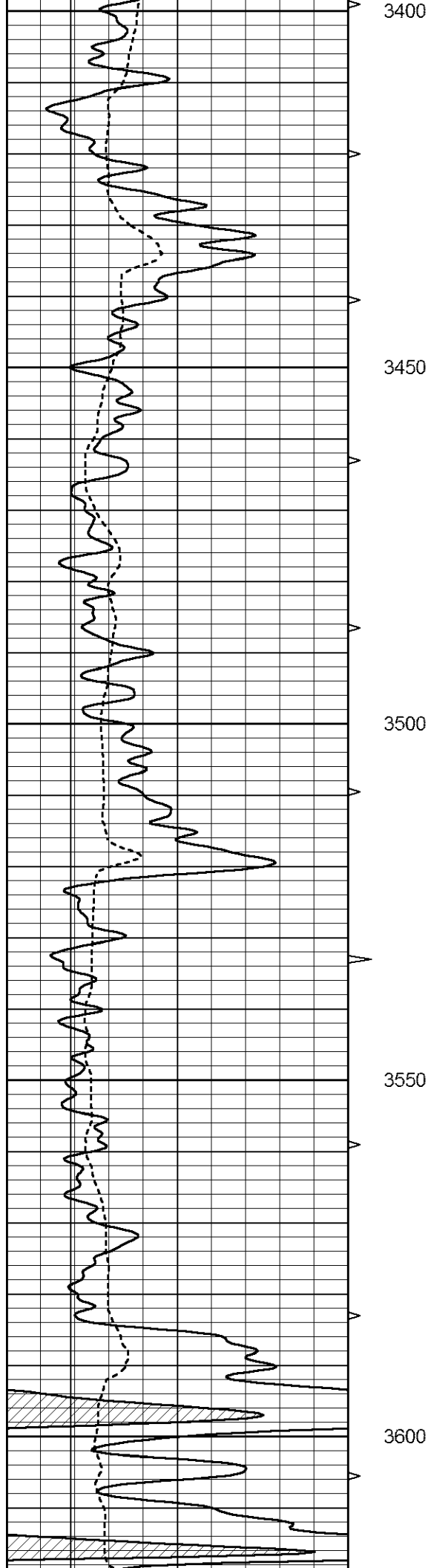
MAIN SECTION

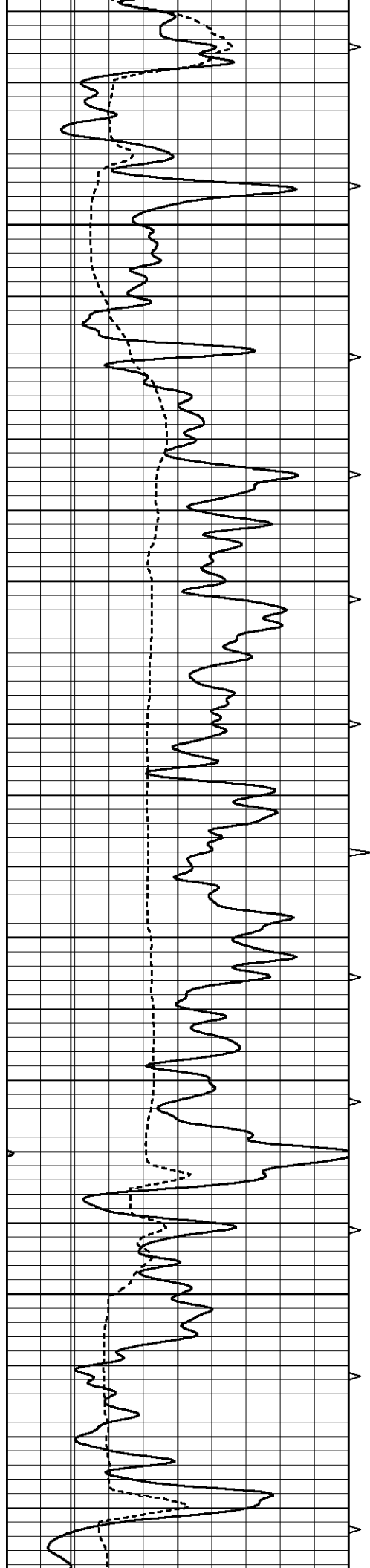
Database File	2524ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_ldt_neu
Dataset Creation	Sat Aug 25 13:54:09 2018
Charted by	Depth in Feet scaled 1:240

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







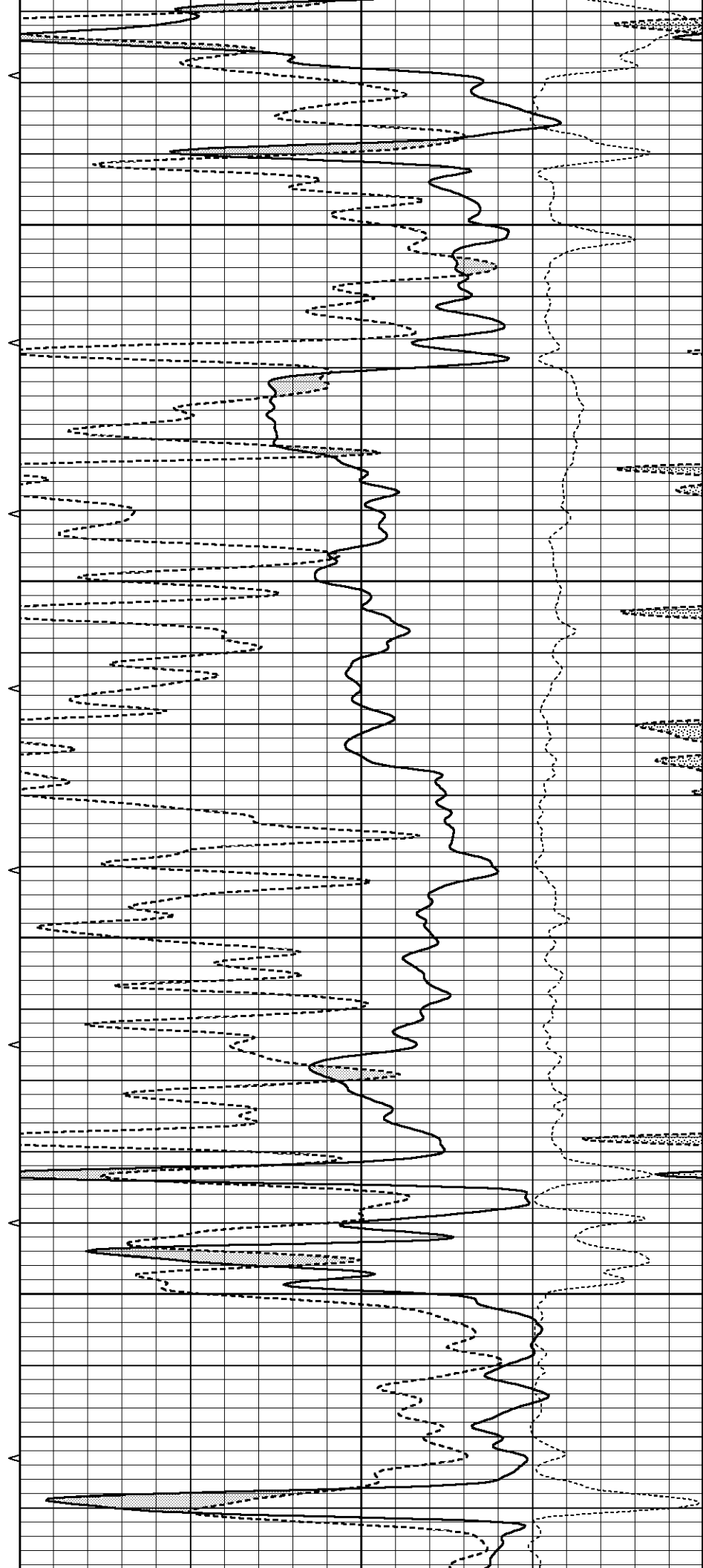


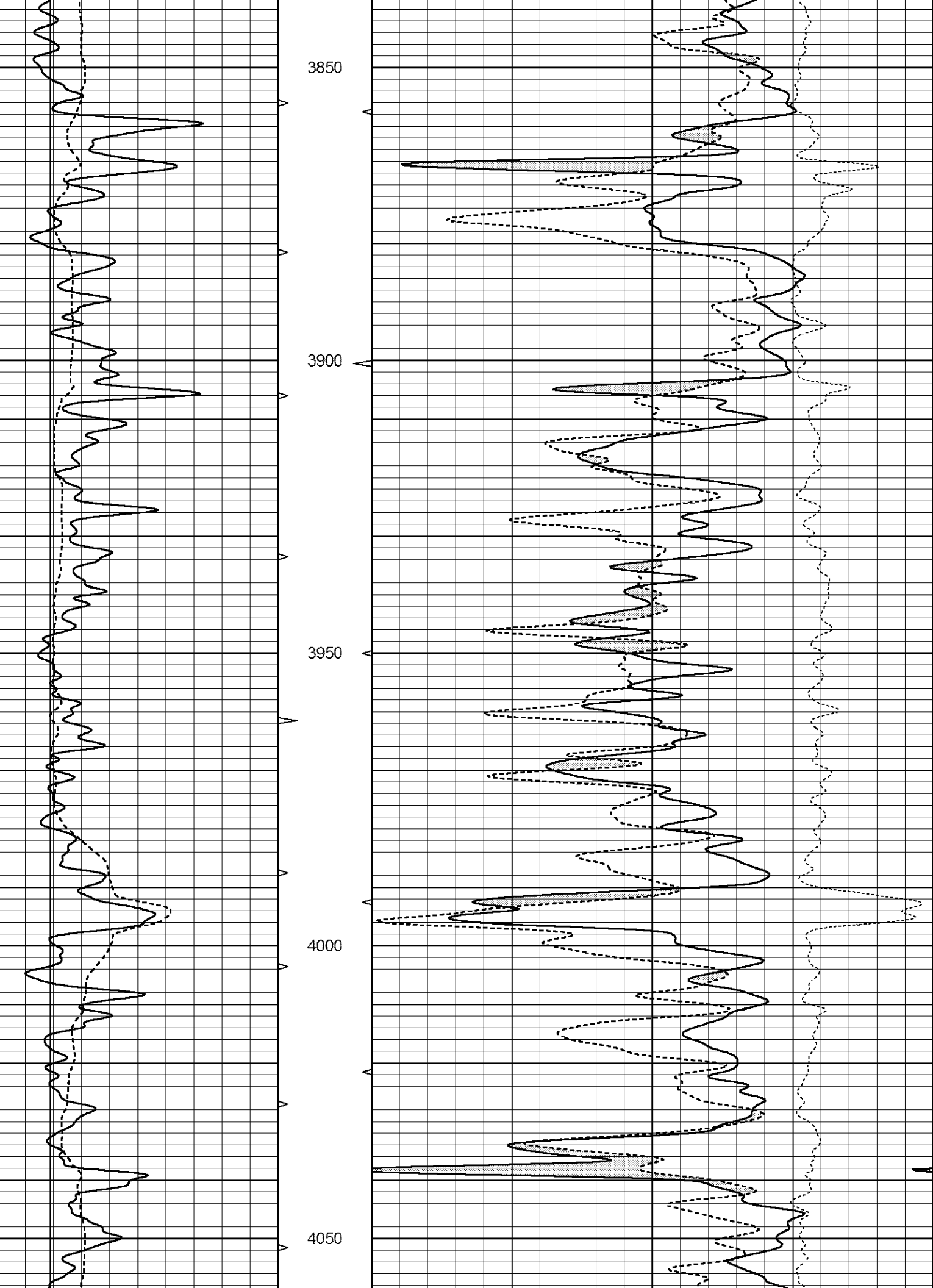
3650

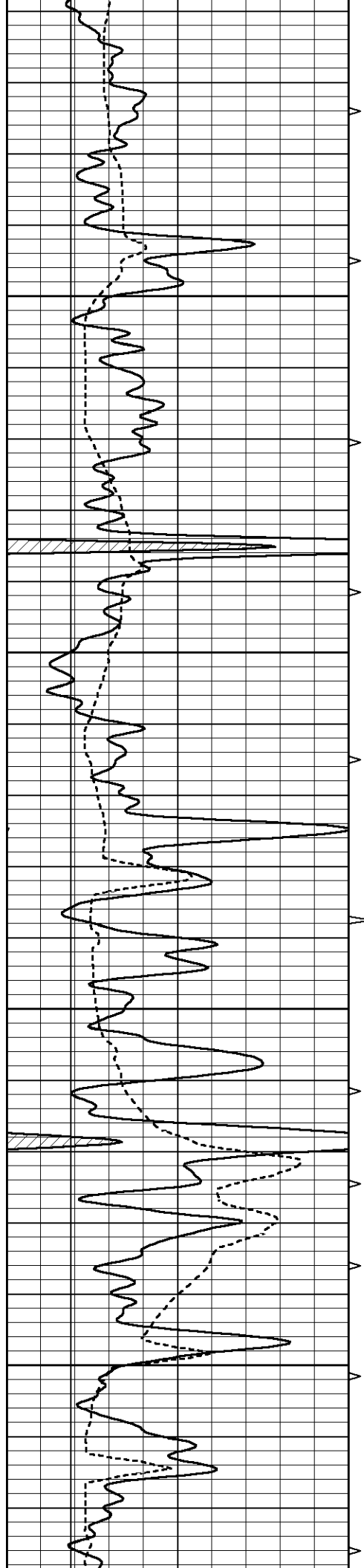
3700

3750

3800





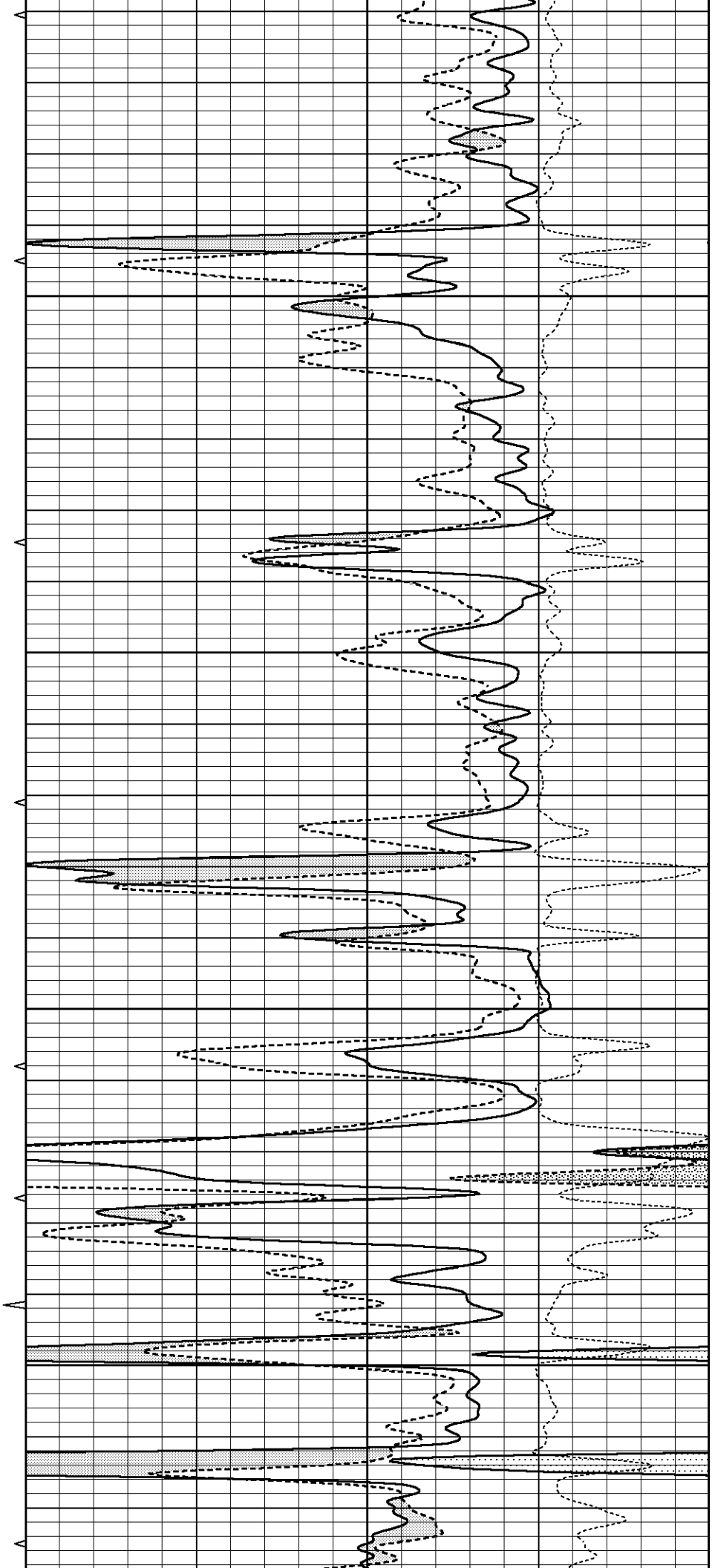


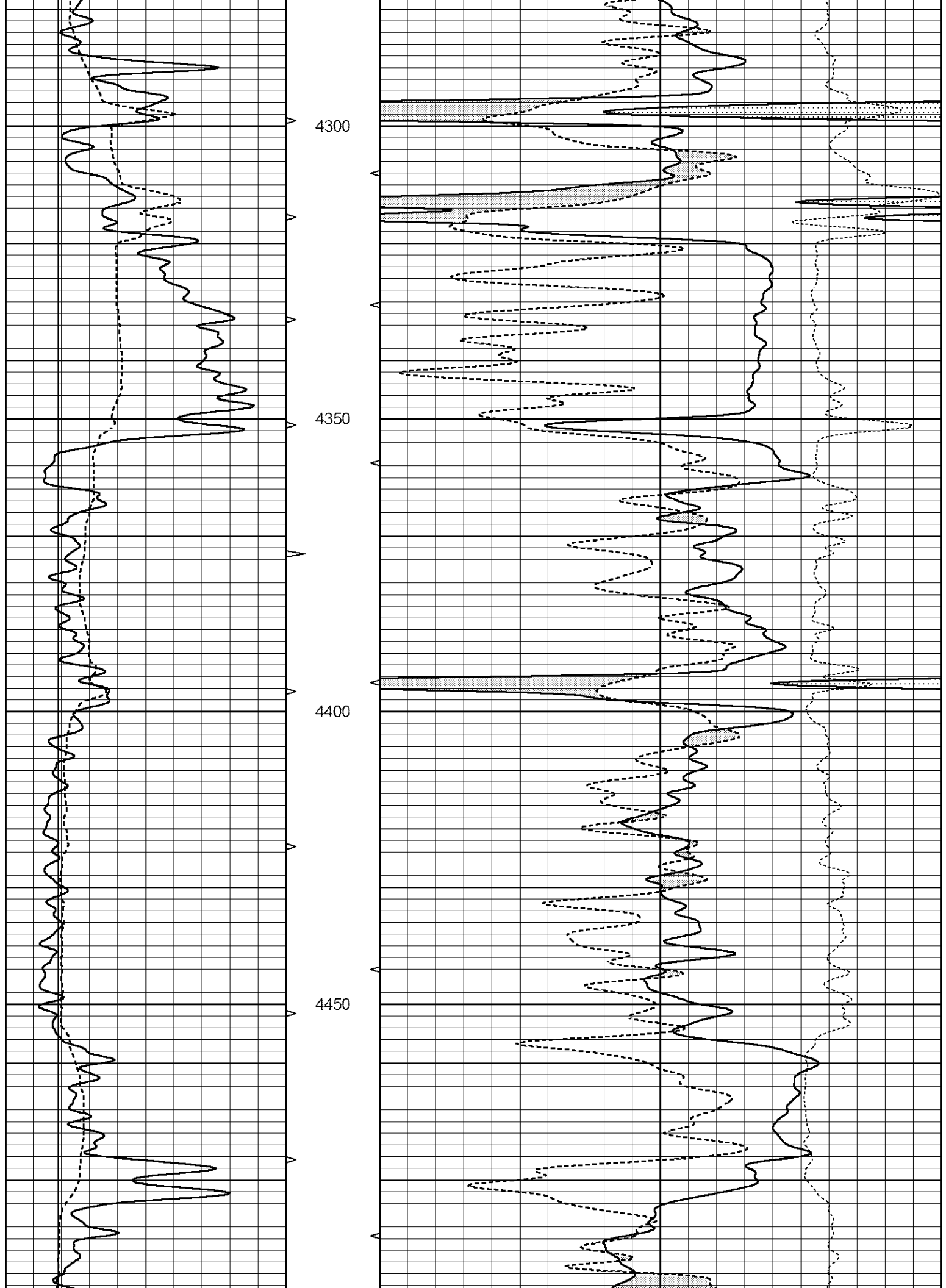
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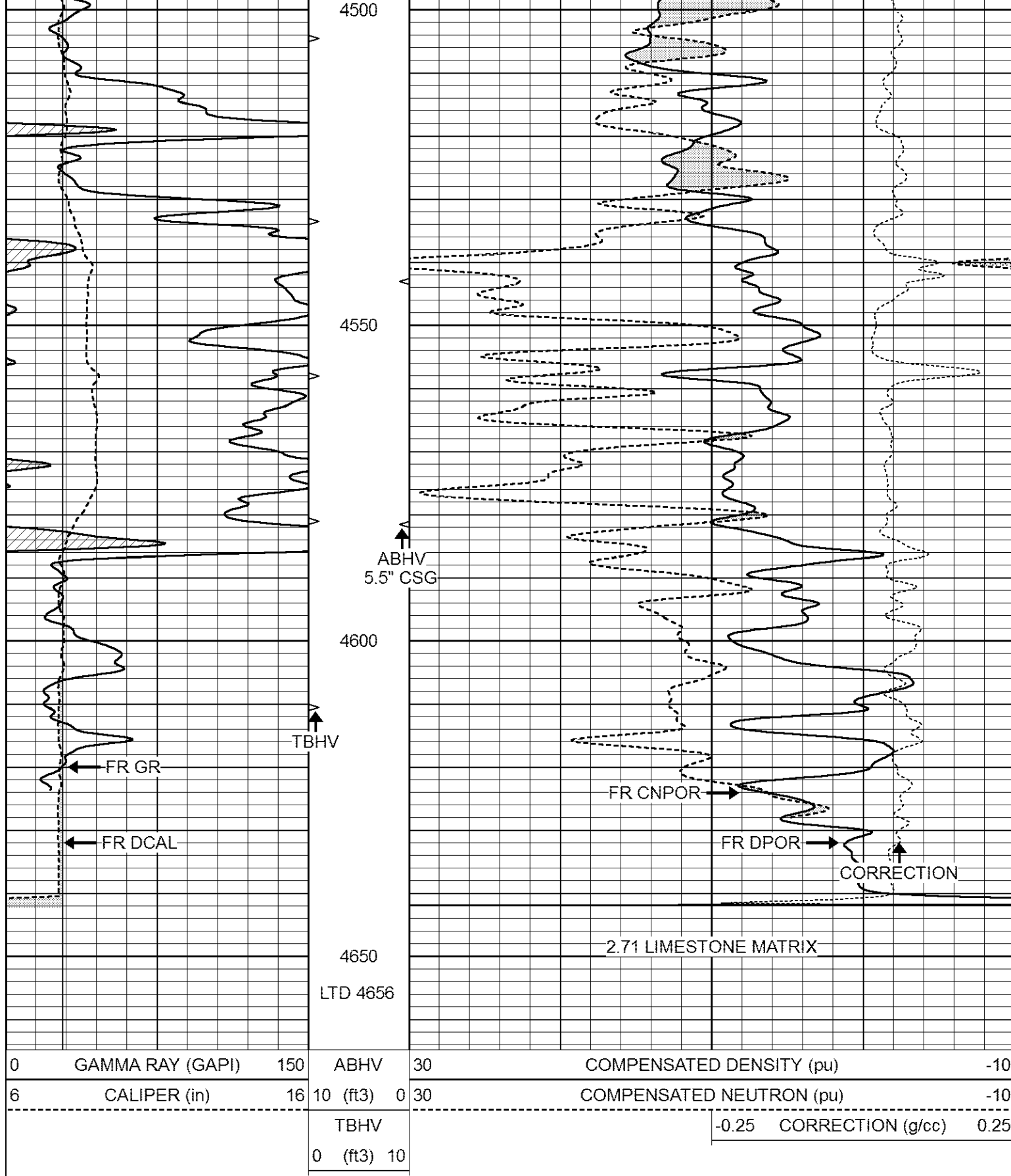
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4200

4250

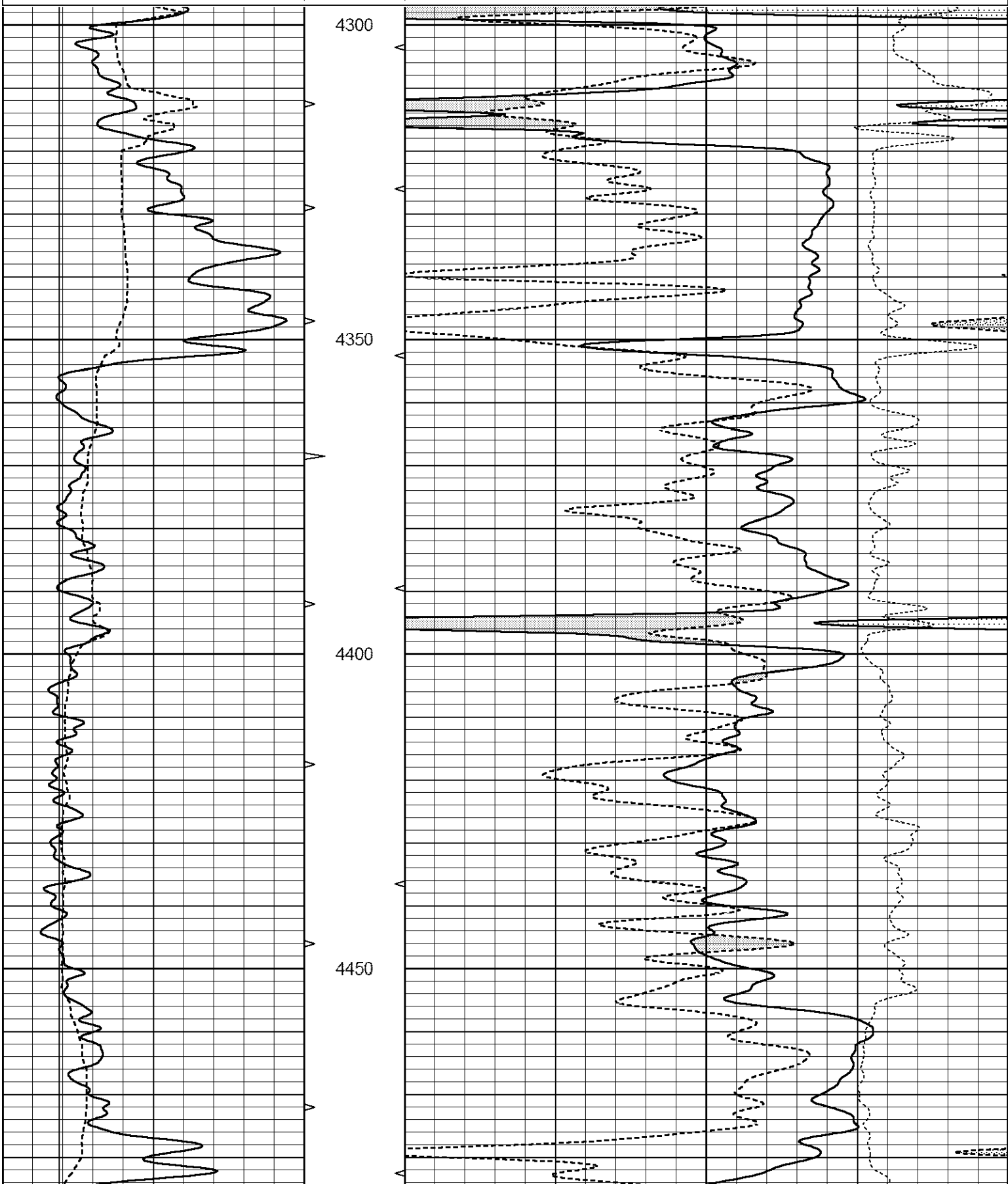


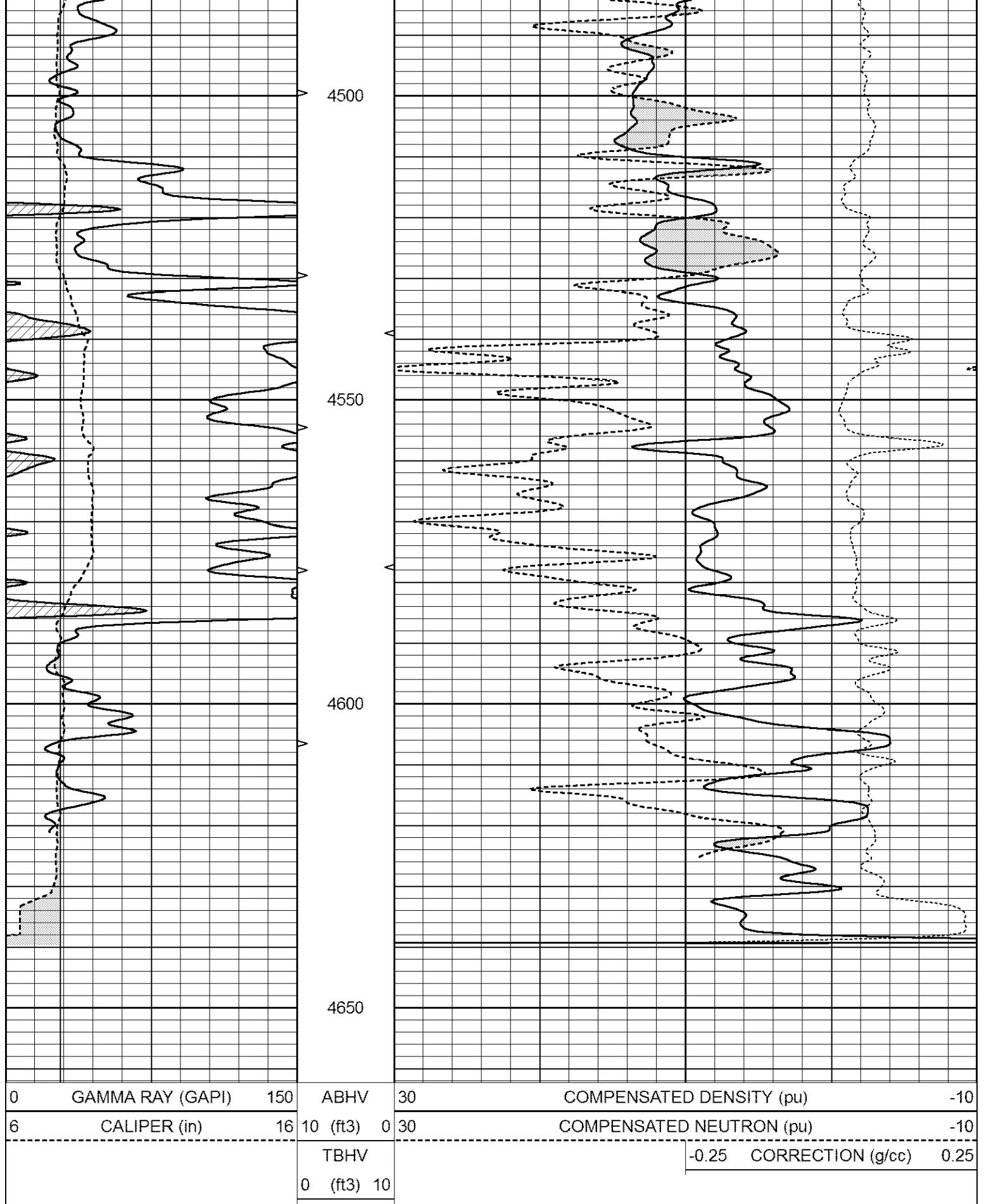




REPEAT SECTION

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





Calibration Report

Database File 2524ddn8.db
 Dataset Pathname pass2.2
 Dataset Creation Sat Aug 25 13:30:55 2018

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

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	-5.524
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: Wed Jun 29 11:10:58 2016

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps