

COMPENSATED DENSITY/NEUTRON LOG

Company L.D. DRILLING, INC.

Well #1-21 DWIGHT

Field WILDCAT

County GOVE State KANSAS

Location: API #: 15-063-22357-0000

1853' FSL & 1503' FEL

SEC 21 TWP 15S RGE 29W

Permanent Datum GROUND LEVEL Elevation 2540
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation
K.B. 2545
D.F. 2543
G.L. 2540

Date 6/5/19

Run Number ONE

Depth Driller 4370

Depth Logger 4371

Bottom Logged Interval 4347

Top Log Interval 3200

Casing Driller 8 5/8" @ 369'

Casing Logger 368

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.5/59

pH / Fluid Loss 10.0/7.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.20 @ 87F

Rmf @ Meas. Temp .90 @ 87F

Rmc @ Meas. Temp 1.44 @ 87F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .87 @ 119F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 1111

Maximum Recorded Temperature 119F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

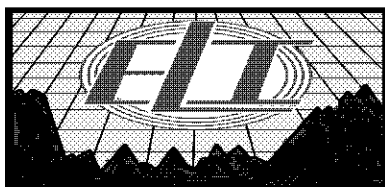
Witnessed By KIM SHOEMAKER

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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

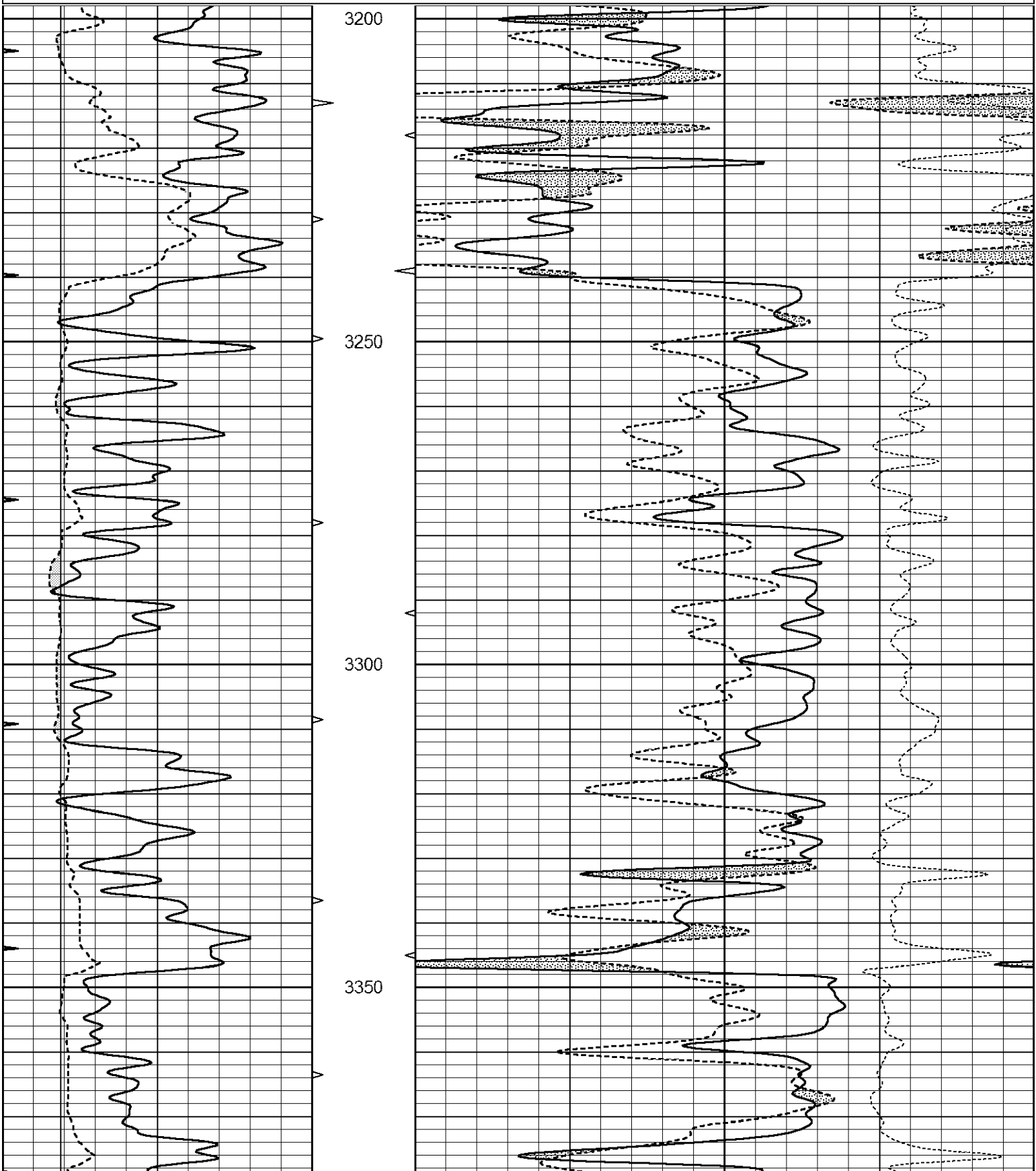
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GOVE, KS. - 16 SOUTH TO RD. C - 2 WEST - NORTH INTO

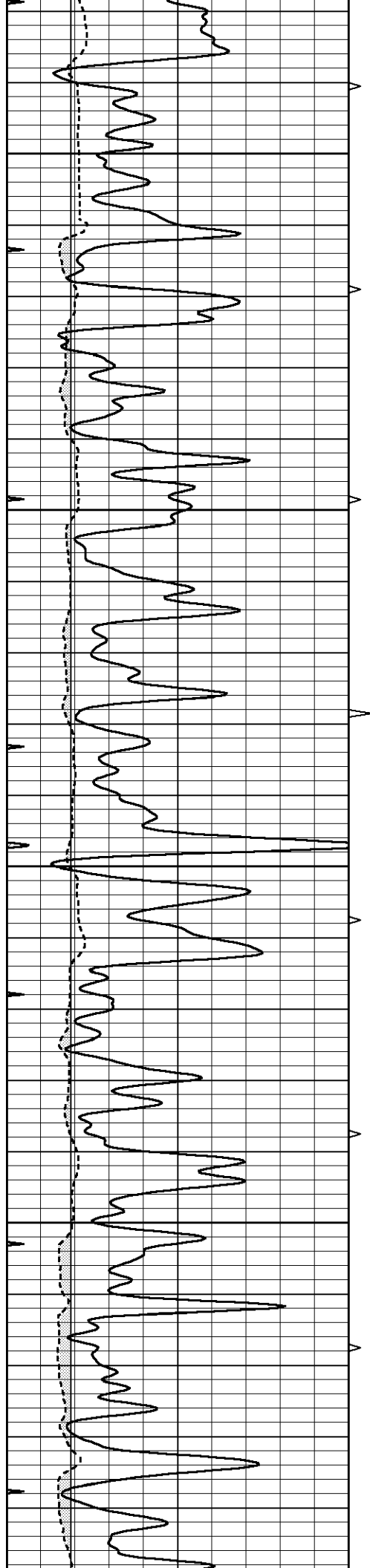


MAIN SECTION

Database File	3641ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Wed Jun 05 09:03:35 2019
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			



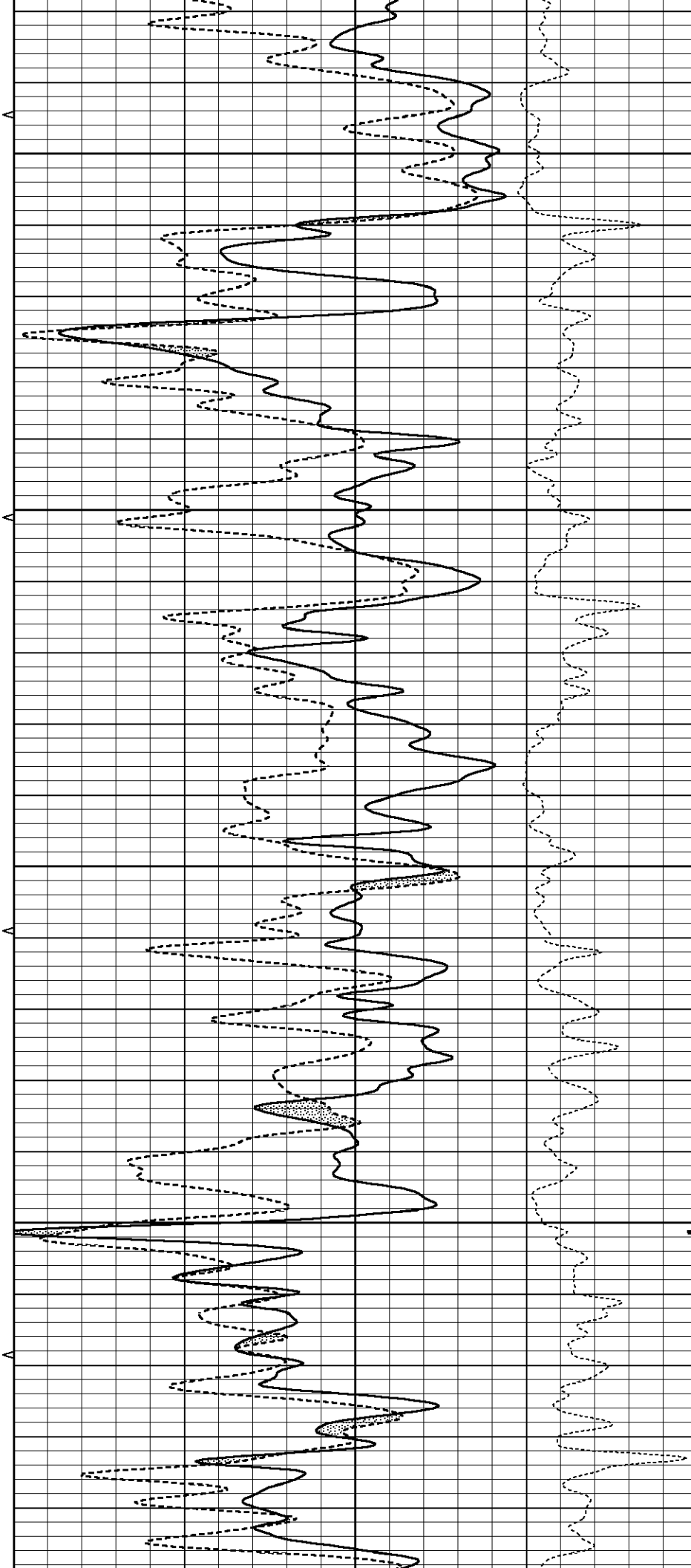


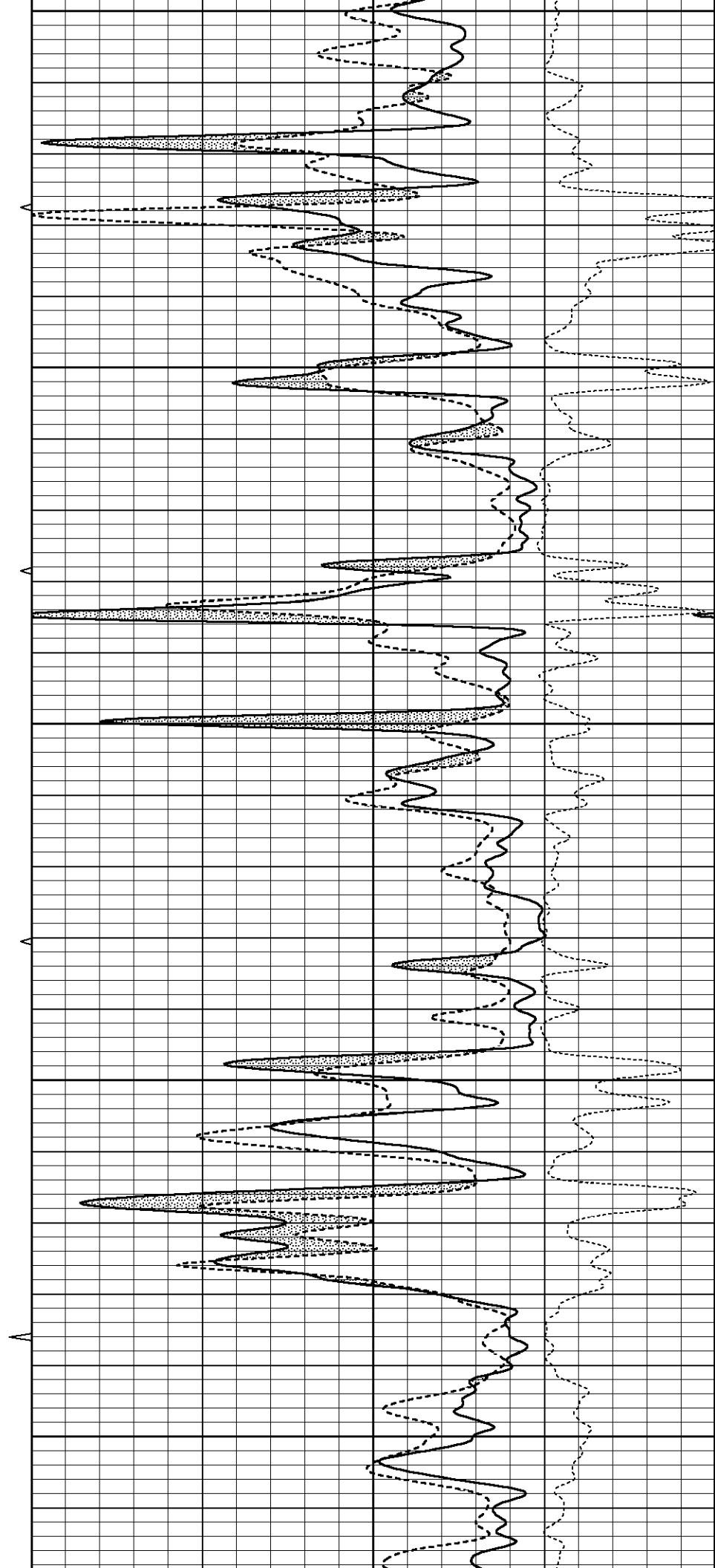
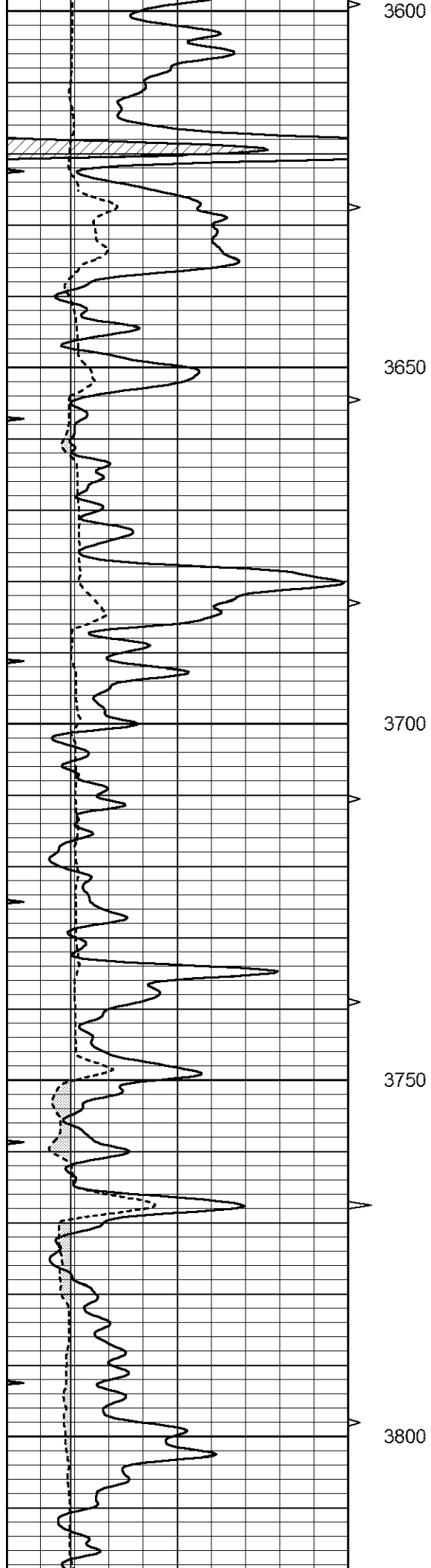
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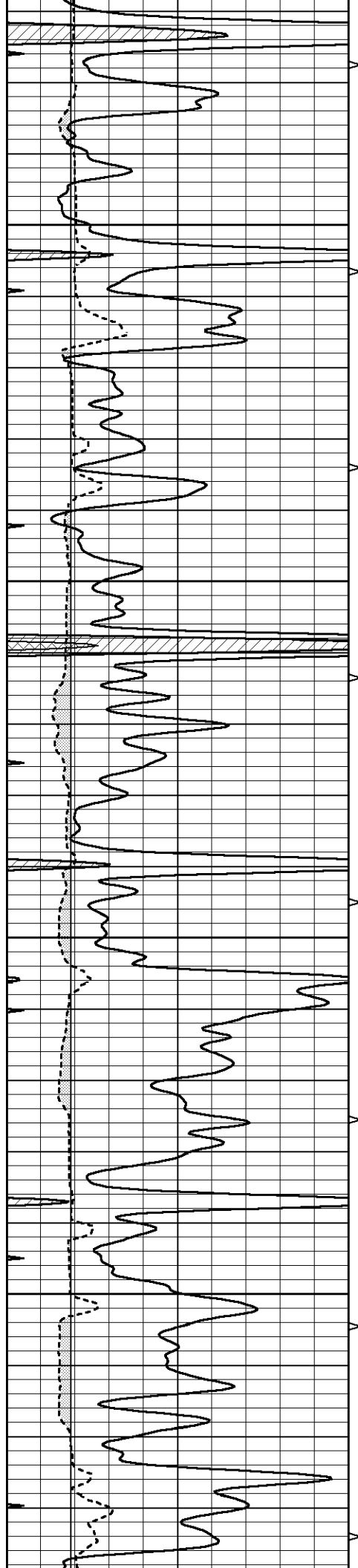
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3550





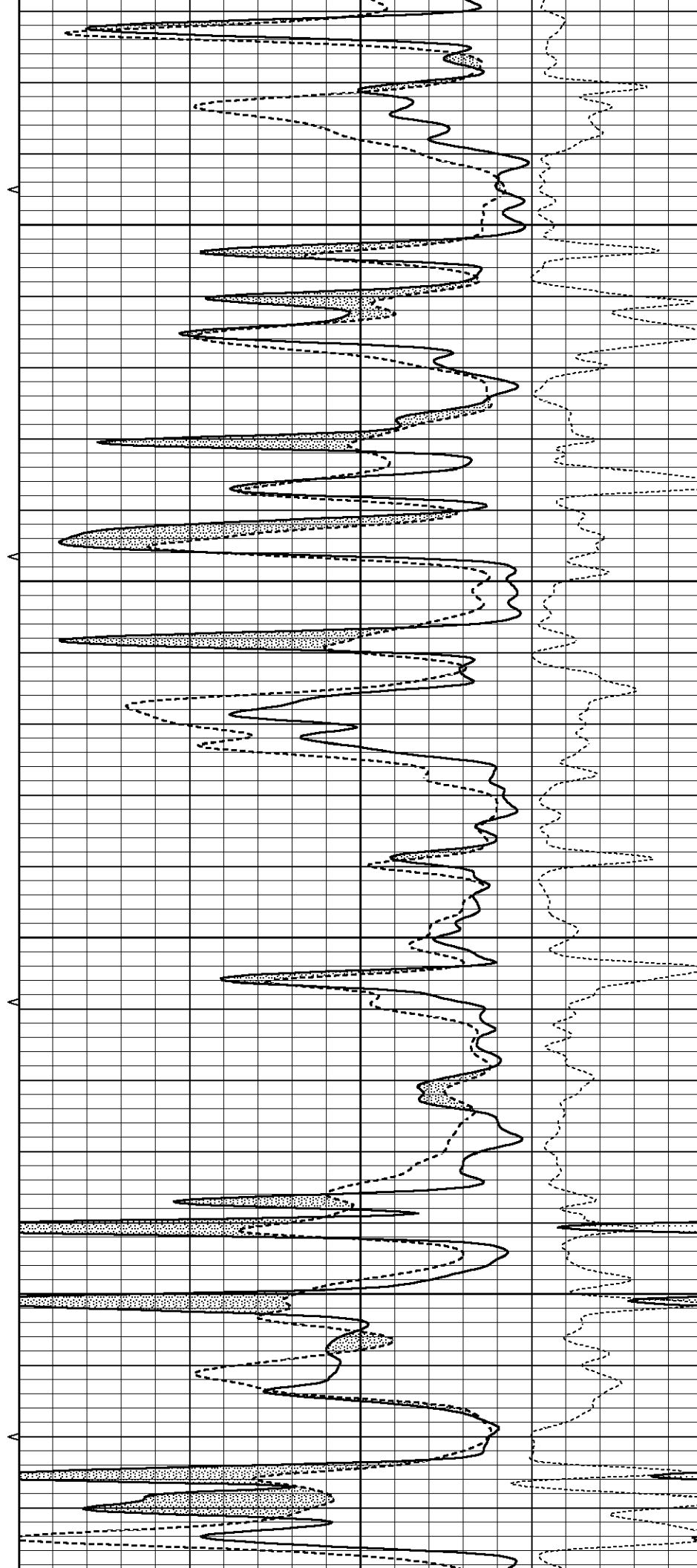


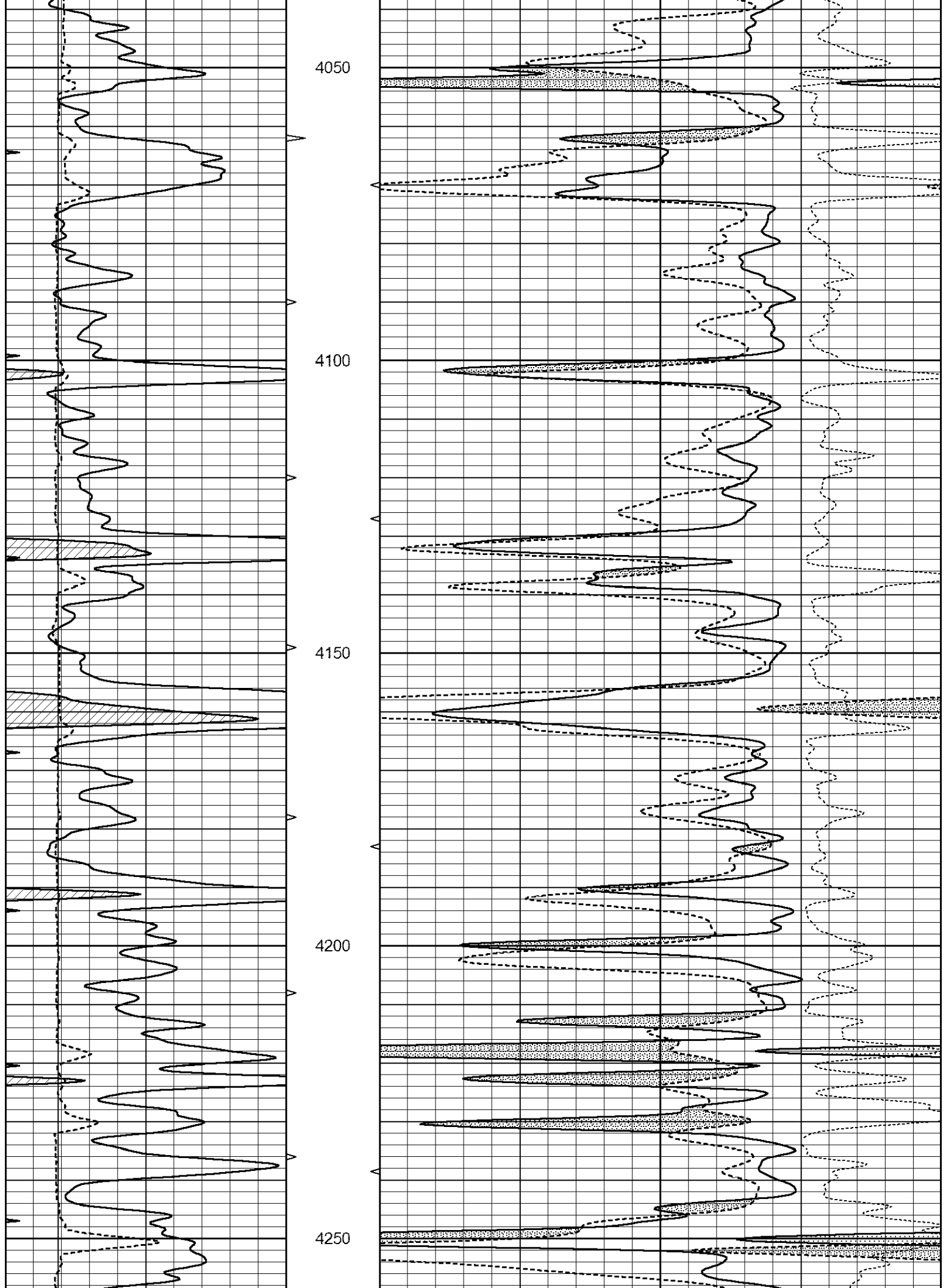
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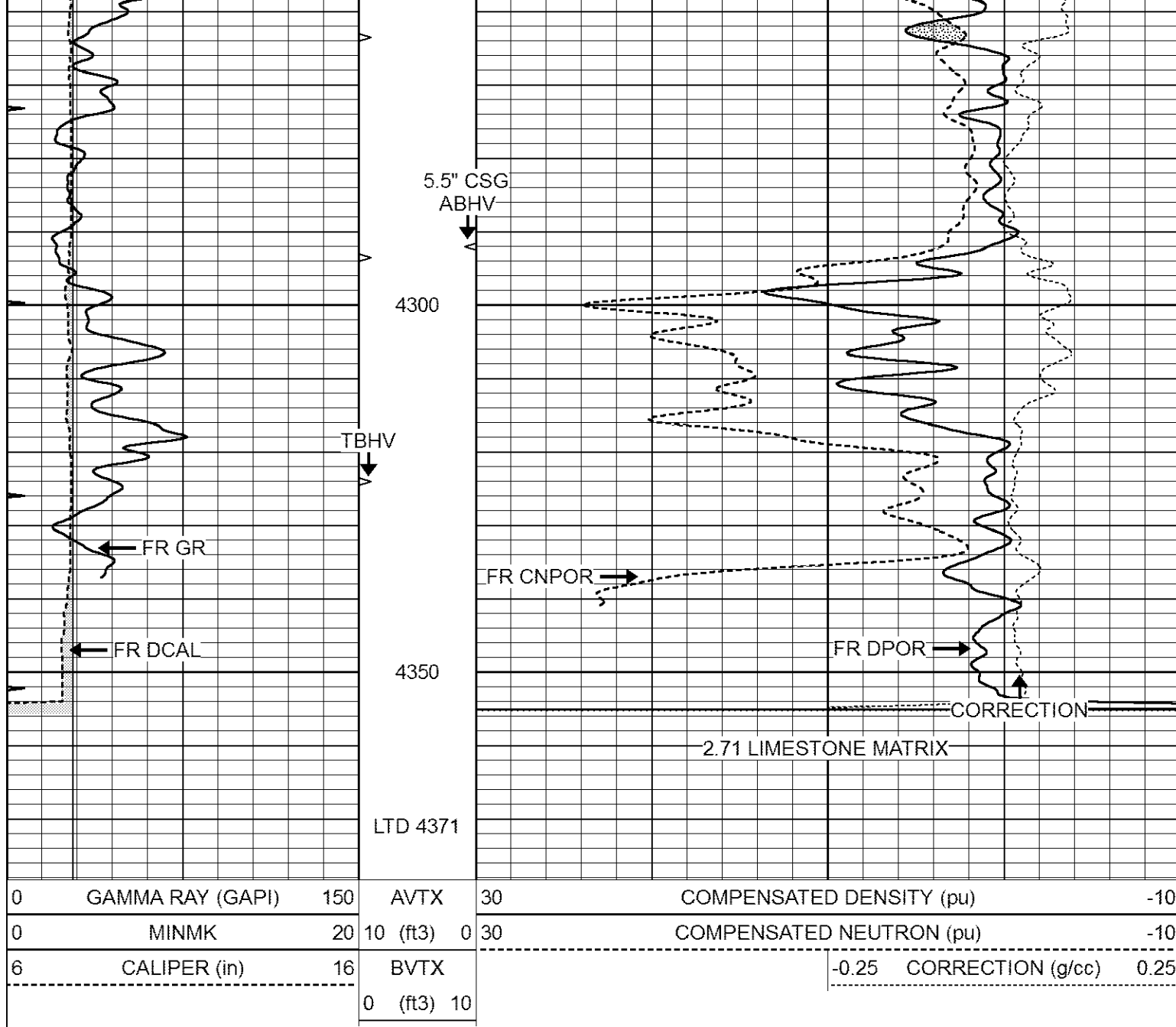
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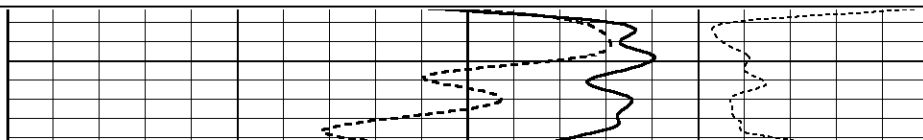
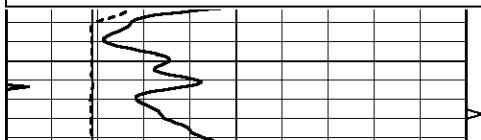


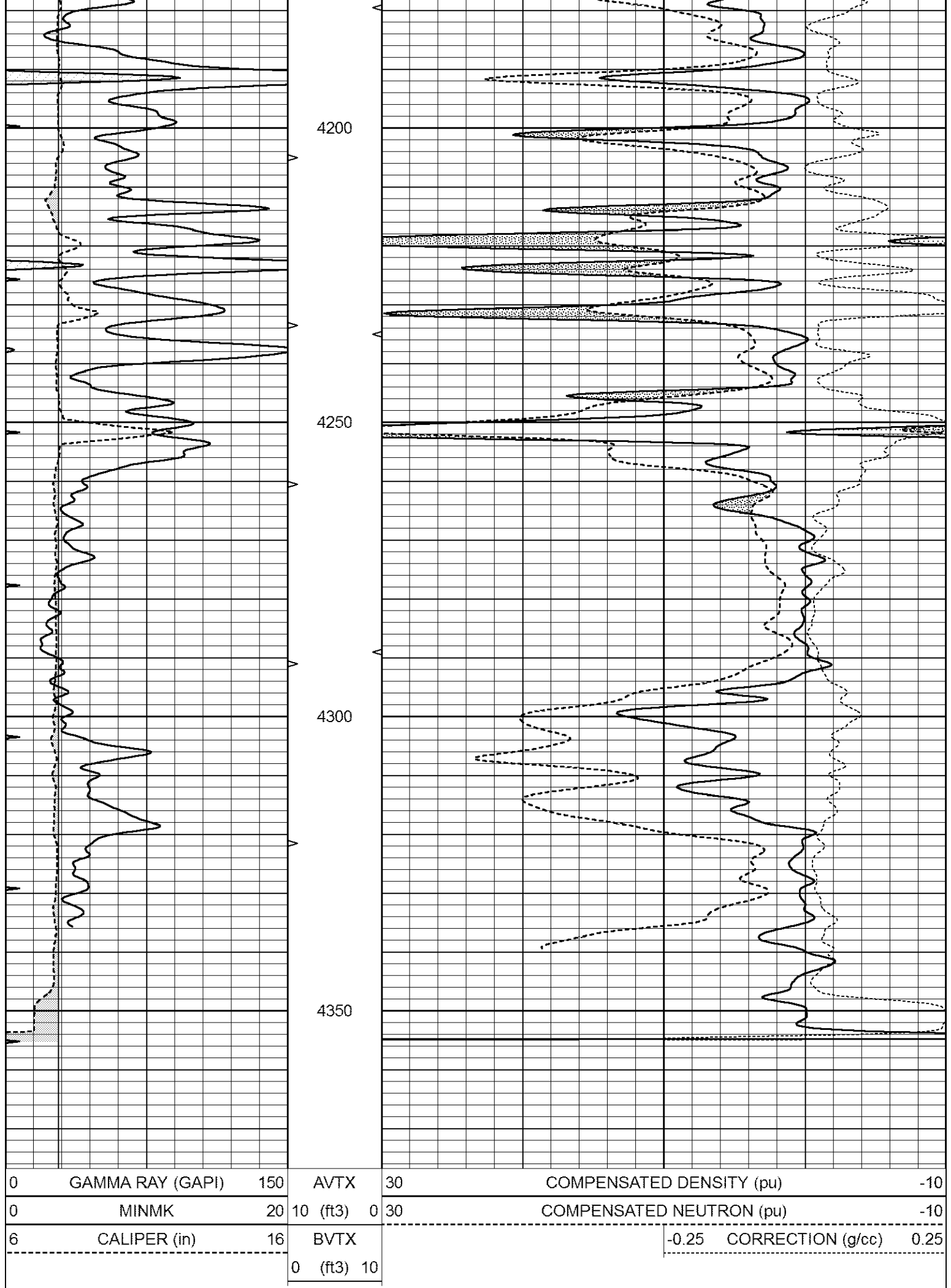


REPEAT SECTION

Database File 3641ddn8.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Wed Jun 05 08:45:46 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





Calibration Report								
Database File		3641ddn8.db						
Dataset Pathname		pass2.1						
Dataset Creation		Wed Jun 05 08:45:46 2019						
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	-5.524
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 Feb 19 11:45:10 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps