



**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company LYNN PACKARD
Well PACKARD #3-27
Field NURSE
County BARBER State KANSAS

Location: API #: 15-007-24456-0000
255' FNL & 1860' FEL
NW - NE - NW - NE
SEC 27 TWP 31S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1578
Log Measured From KELLY BUSHING 8' A.G.L
Drilling Measured From KELLY BUSHING
Other Services DILMEL
Elevation K.B. 1586
D.F. 1584
G.L. 1578

Date	12/12/22
Run Number	ONE
Depth Driller	4490
Depth Logger	4493
Bottom Logged Interval	4469
Top Log Interval	2300
Casing Driller	8 5/8 @ 222'
Casing Logger	222
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/54
PH / Fluid Loss	10.0/9.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.850 @ 70F
Rmt @ Meas. Temp	.638 @ 70F
Rmc @ Meas. Temp	1.02 @ 70F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.496 @ 120F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	1:30 P.M.
Maximum Recorded Temperature	120F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	COLE ROBBEN
Witnessed By	AARON YOUNG

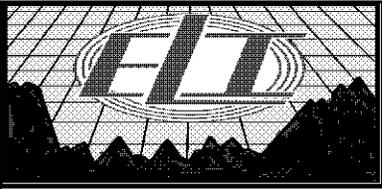
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

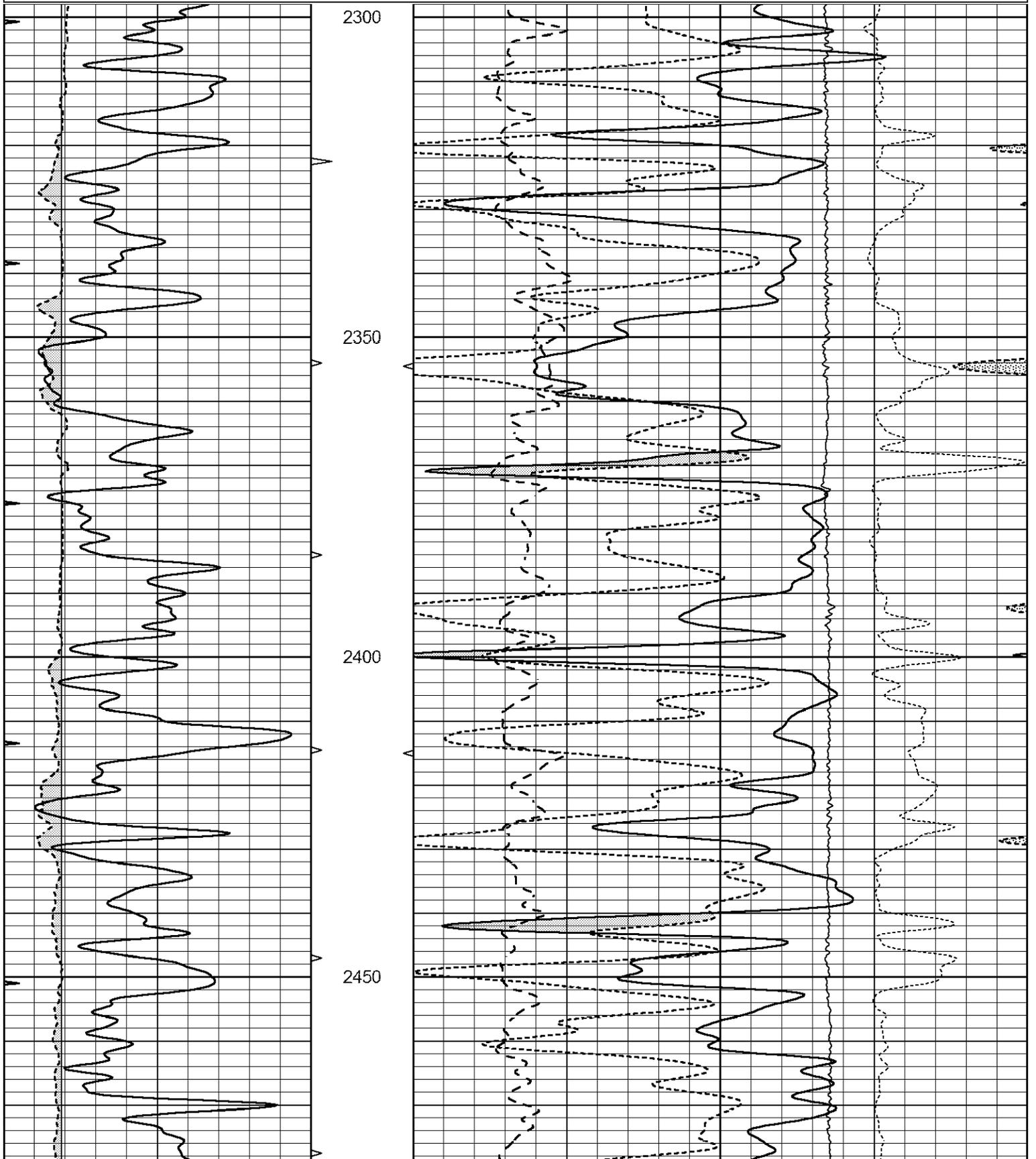
DIRECTIONS:
FROM MEDICINE LODGE WEST ON RIVER ROAD 8 MILES, SOUTH INTO

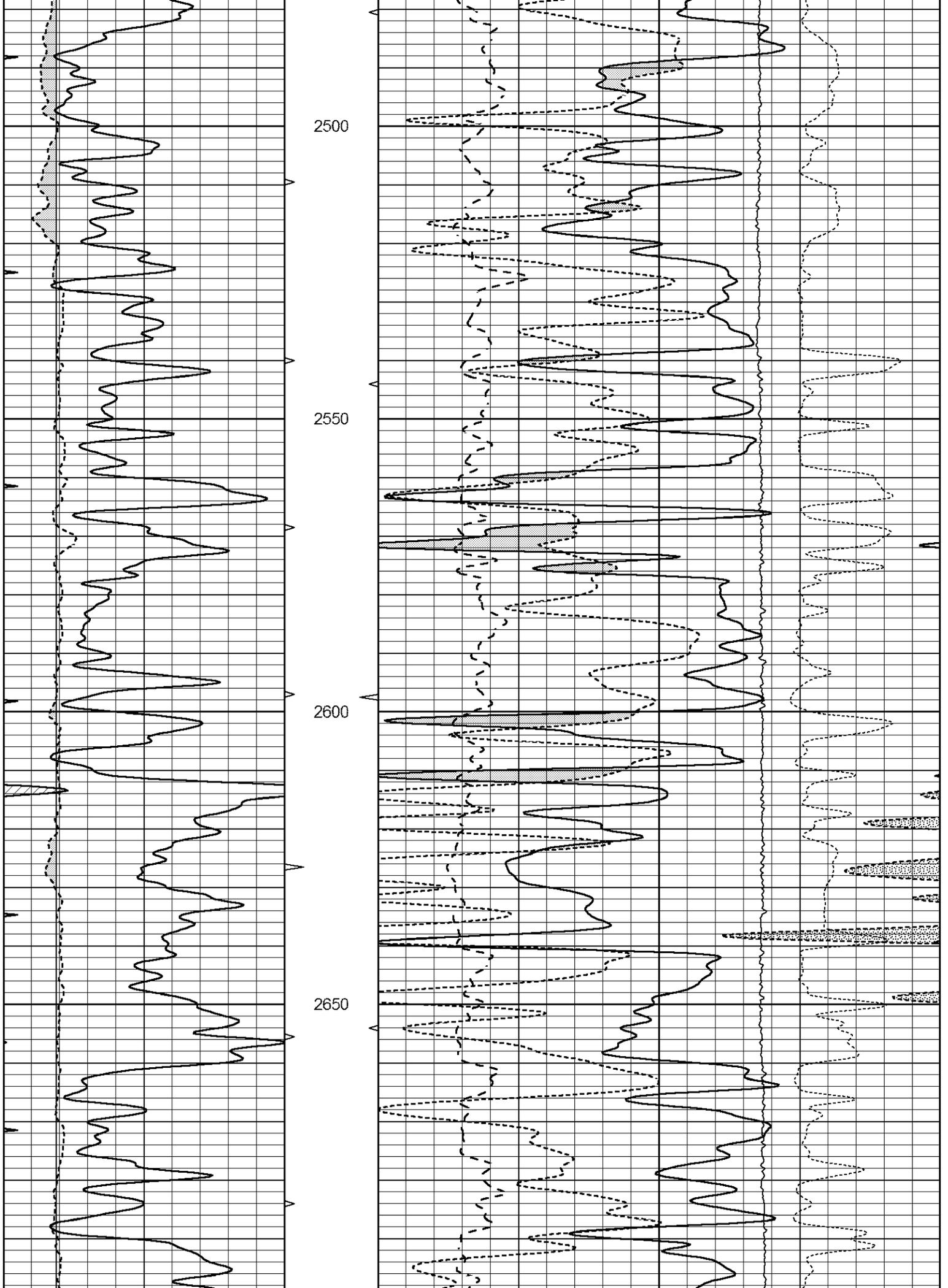


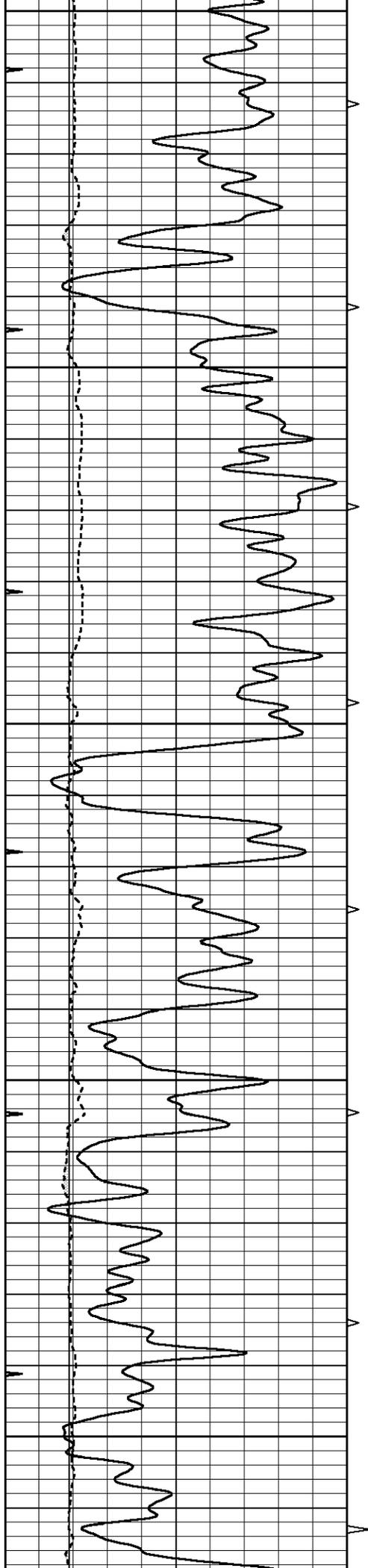
MAIN SECTION

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 Presentation Format _ldt_neu
 Dataset Creation Mon Dec 12 14:49:12 2022
 Charted by Depth in Feet scaled 1:240

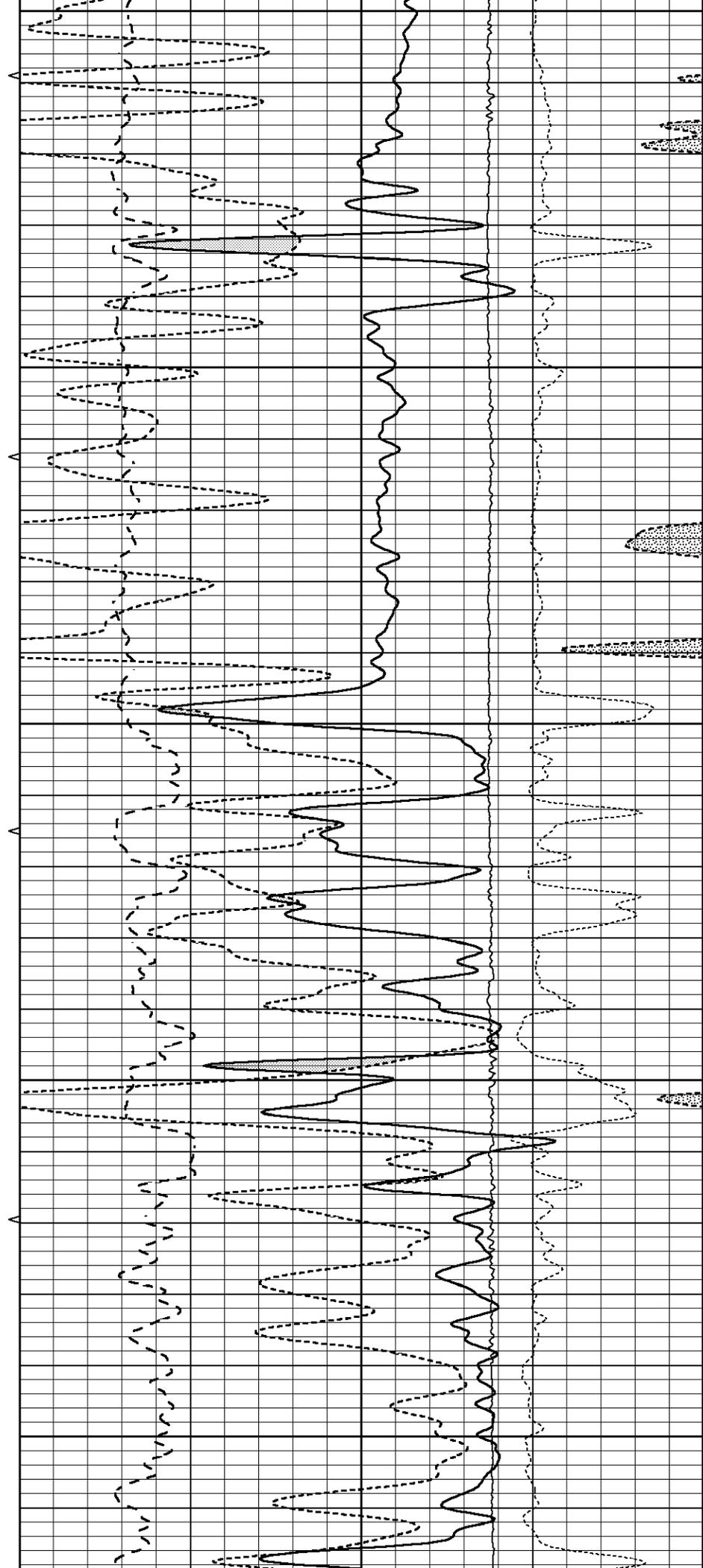
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)				-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)				-10
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10			0	LTEN (lb)	5000	

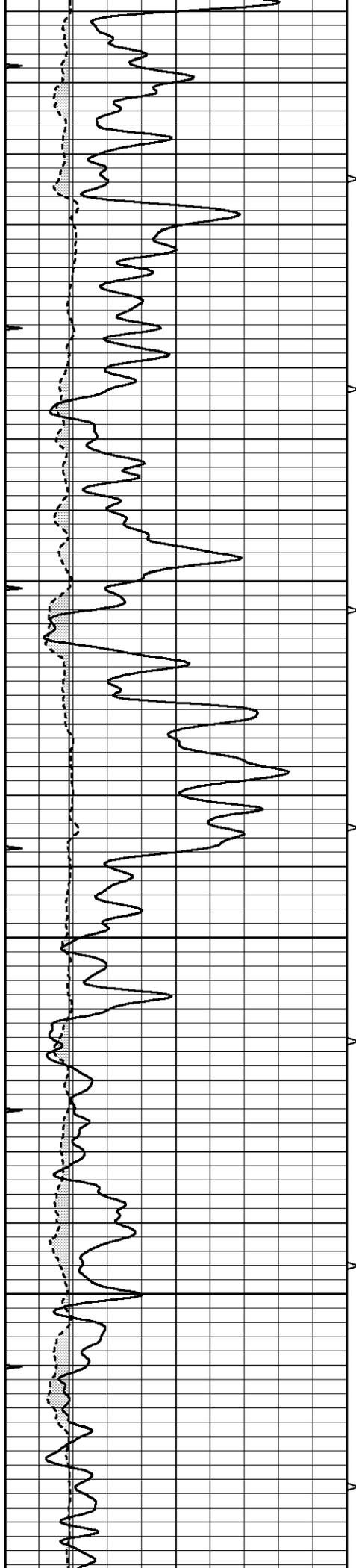






2700
2750
2800
2850
2900



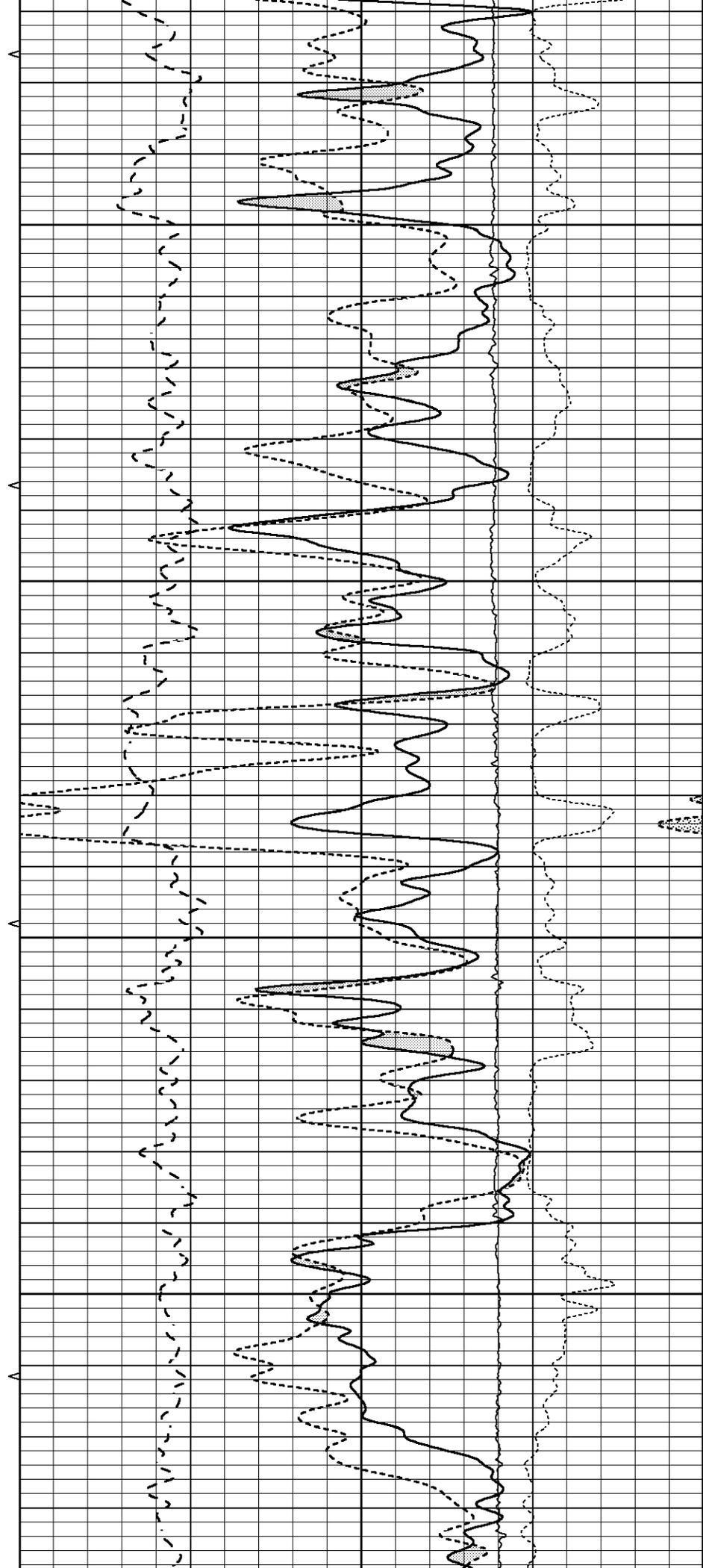


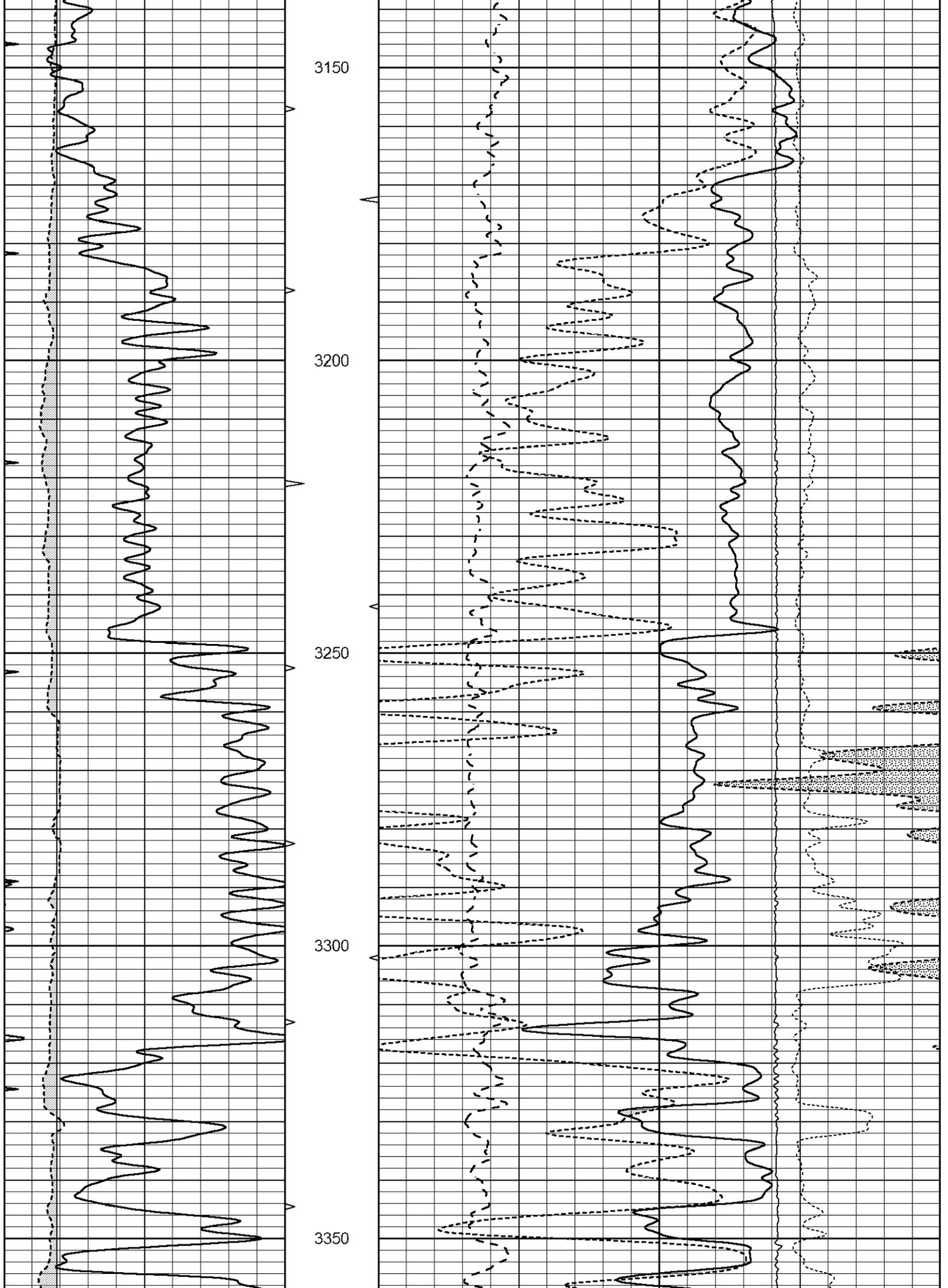
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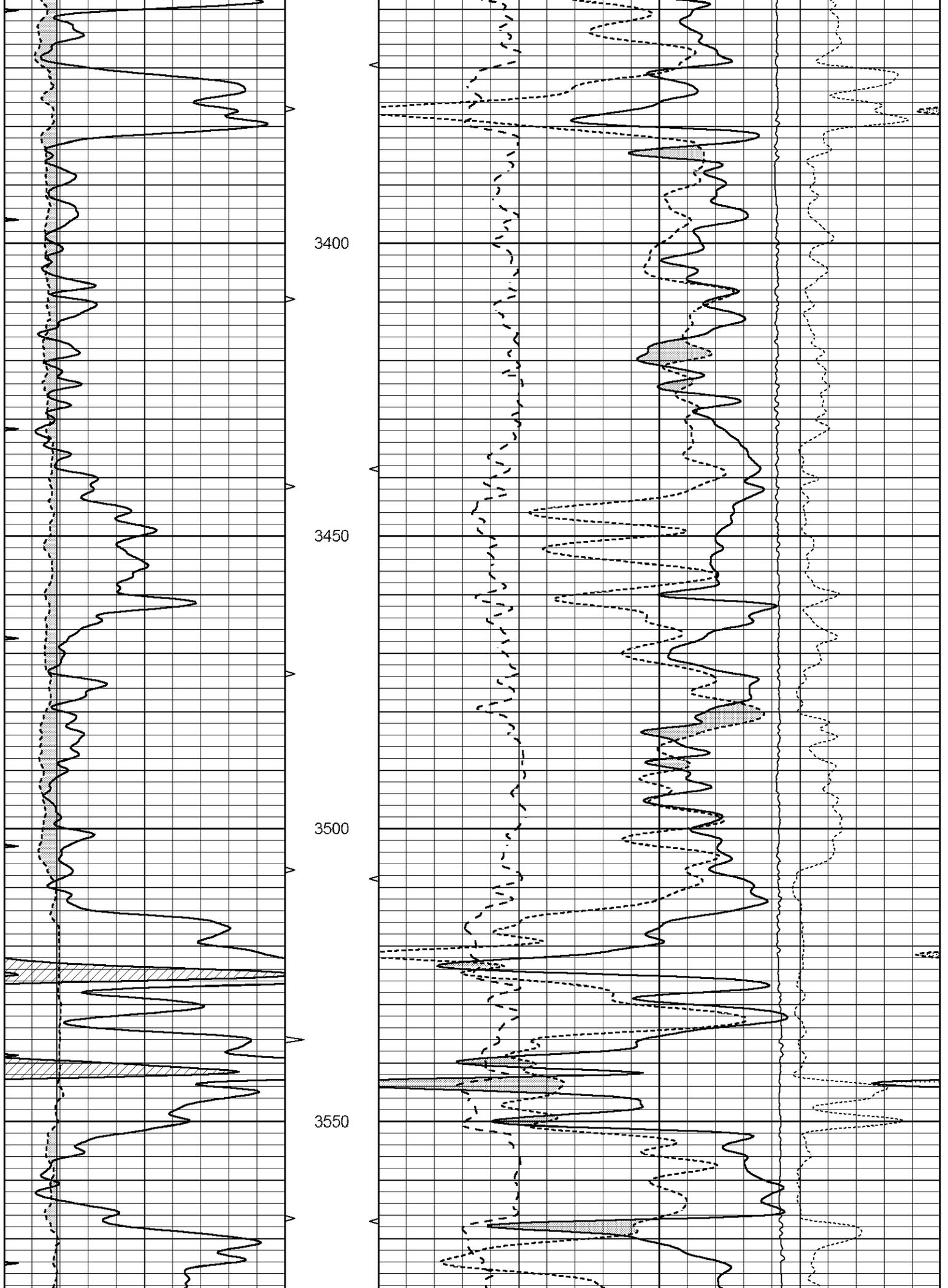
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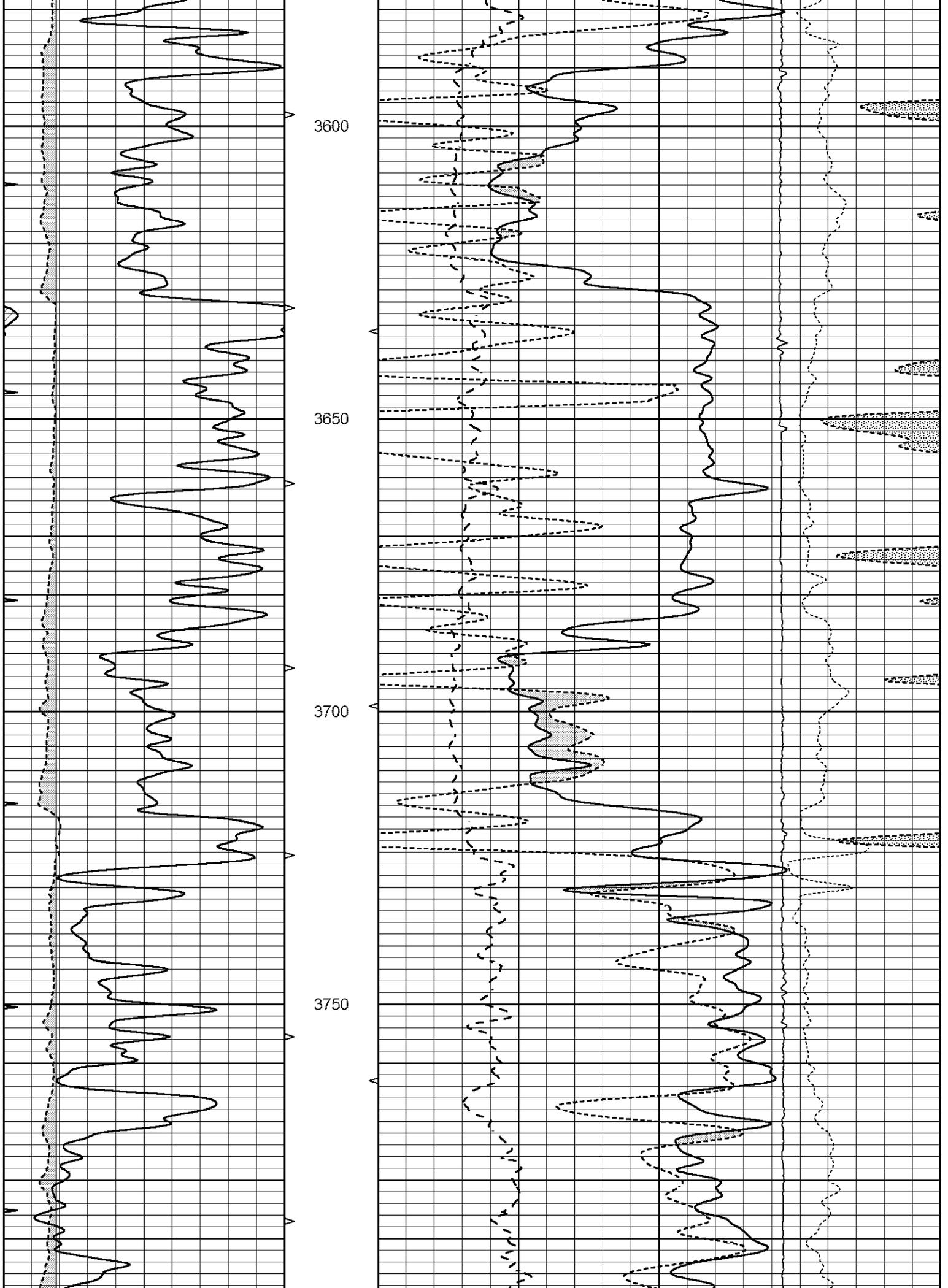
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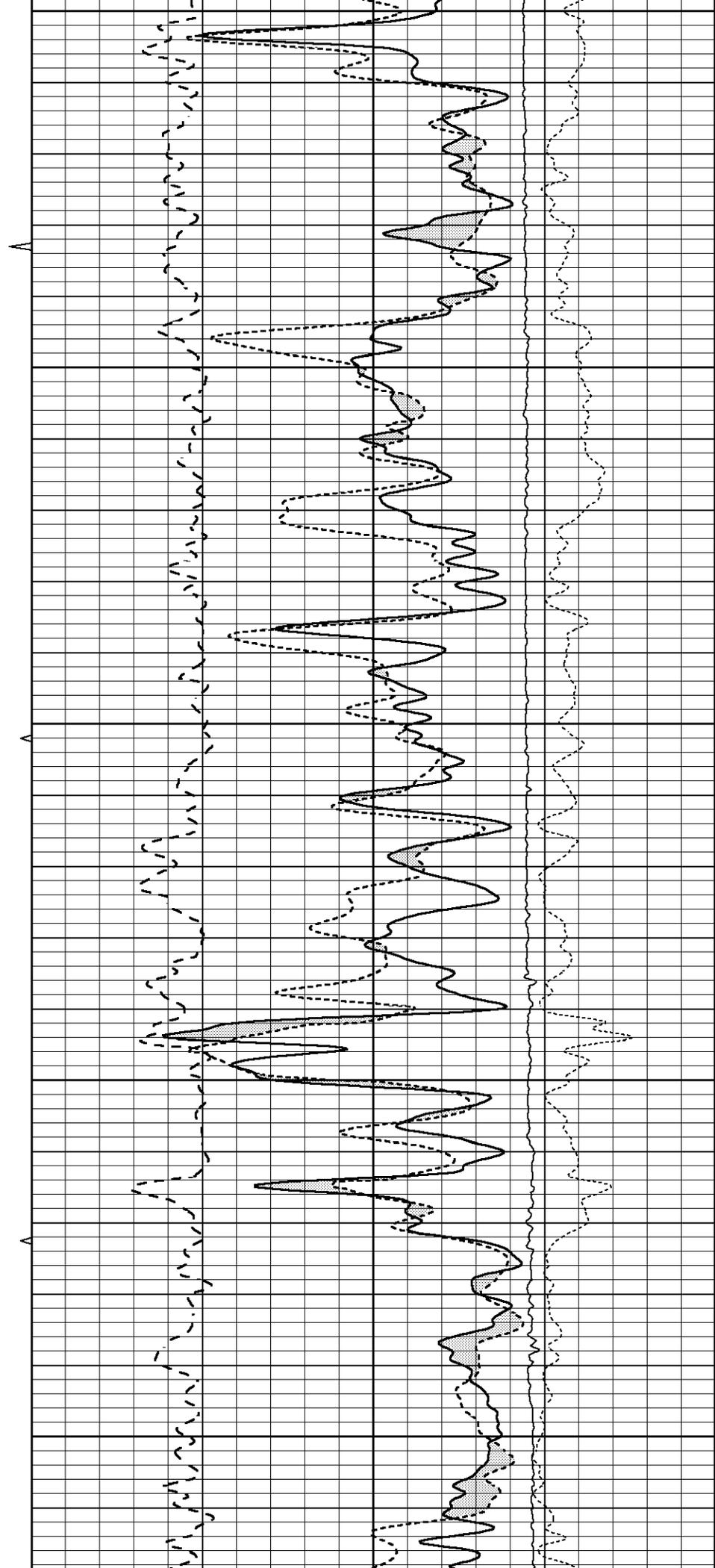
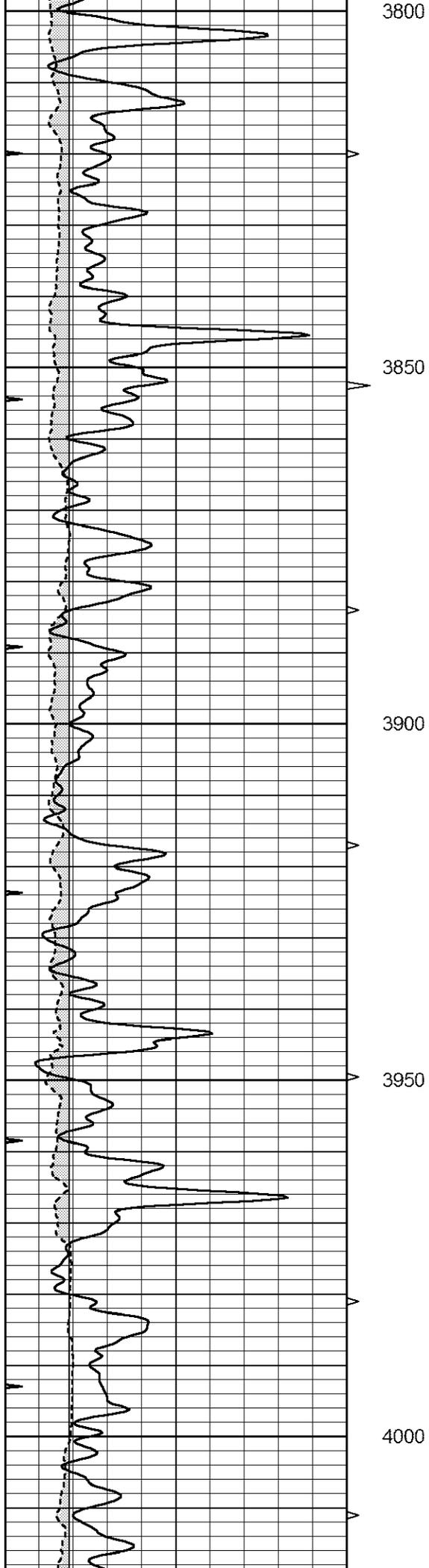
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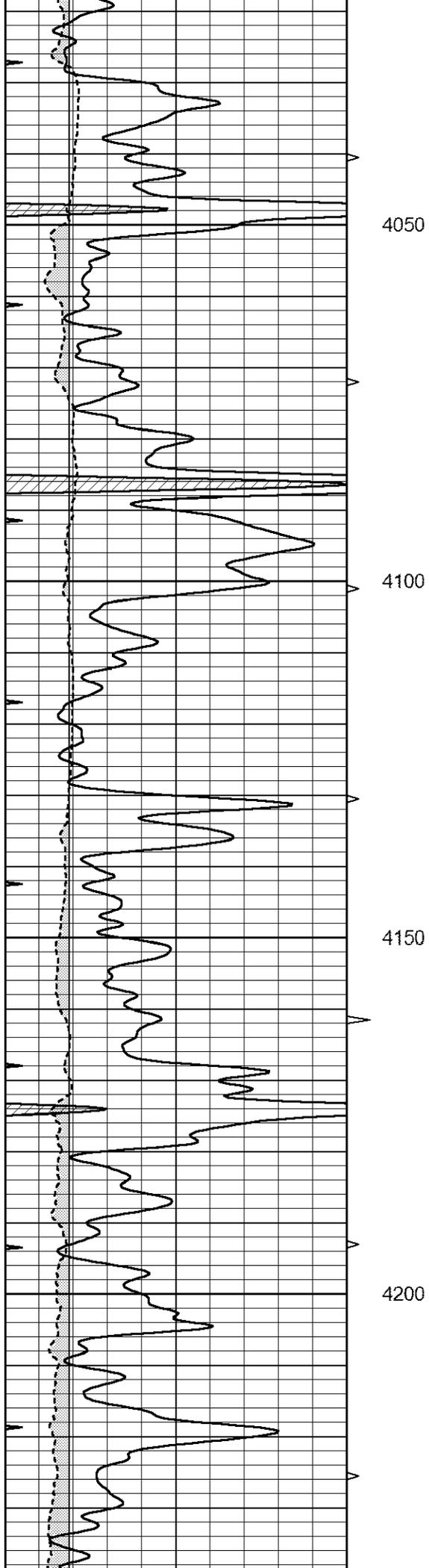










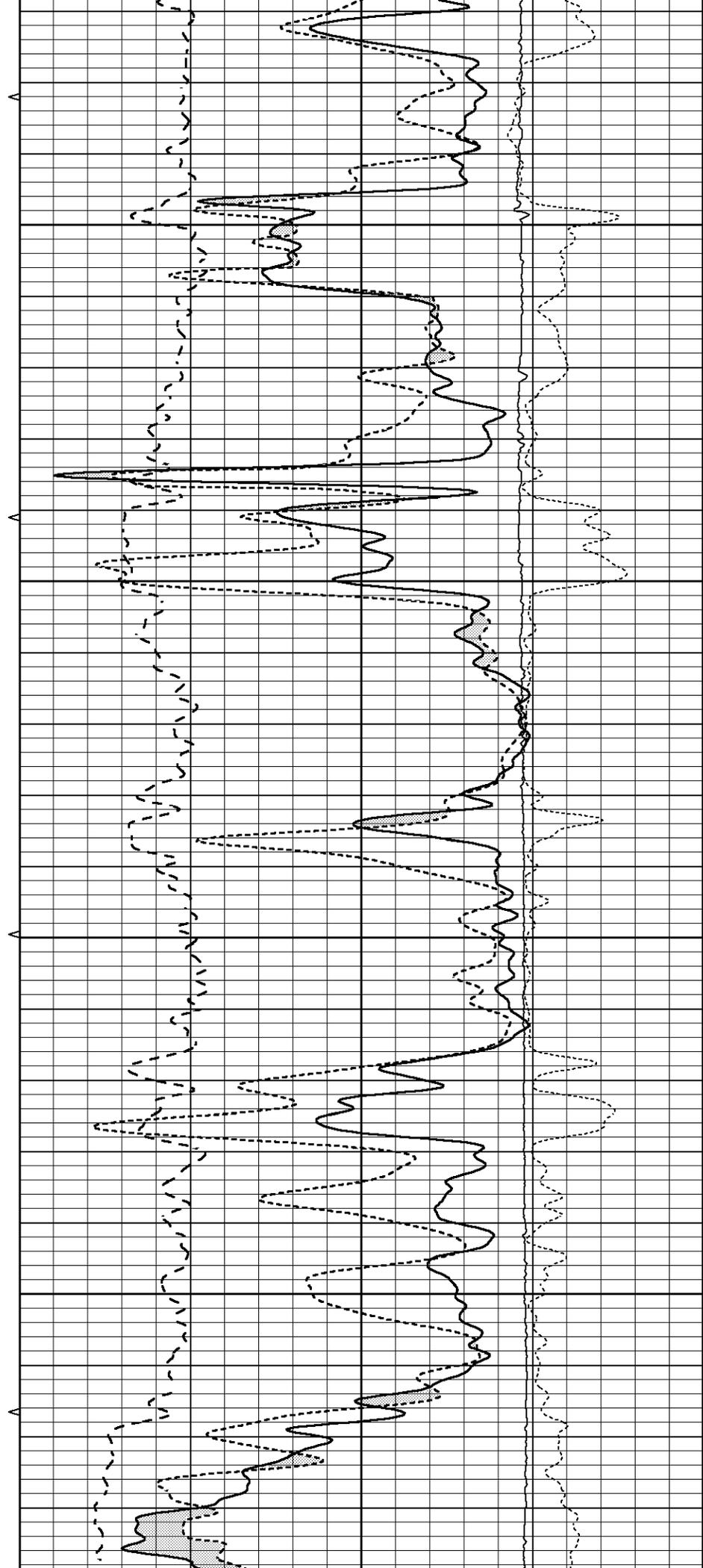


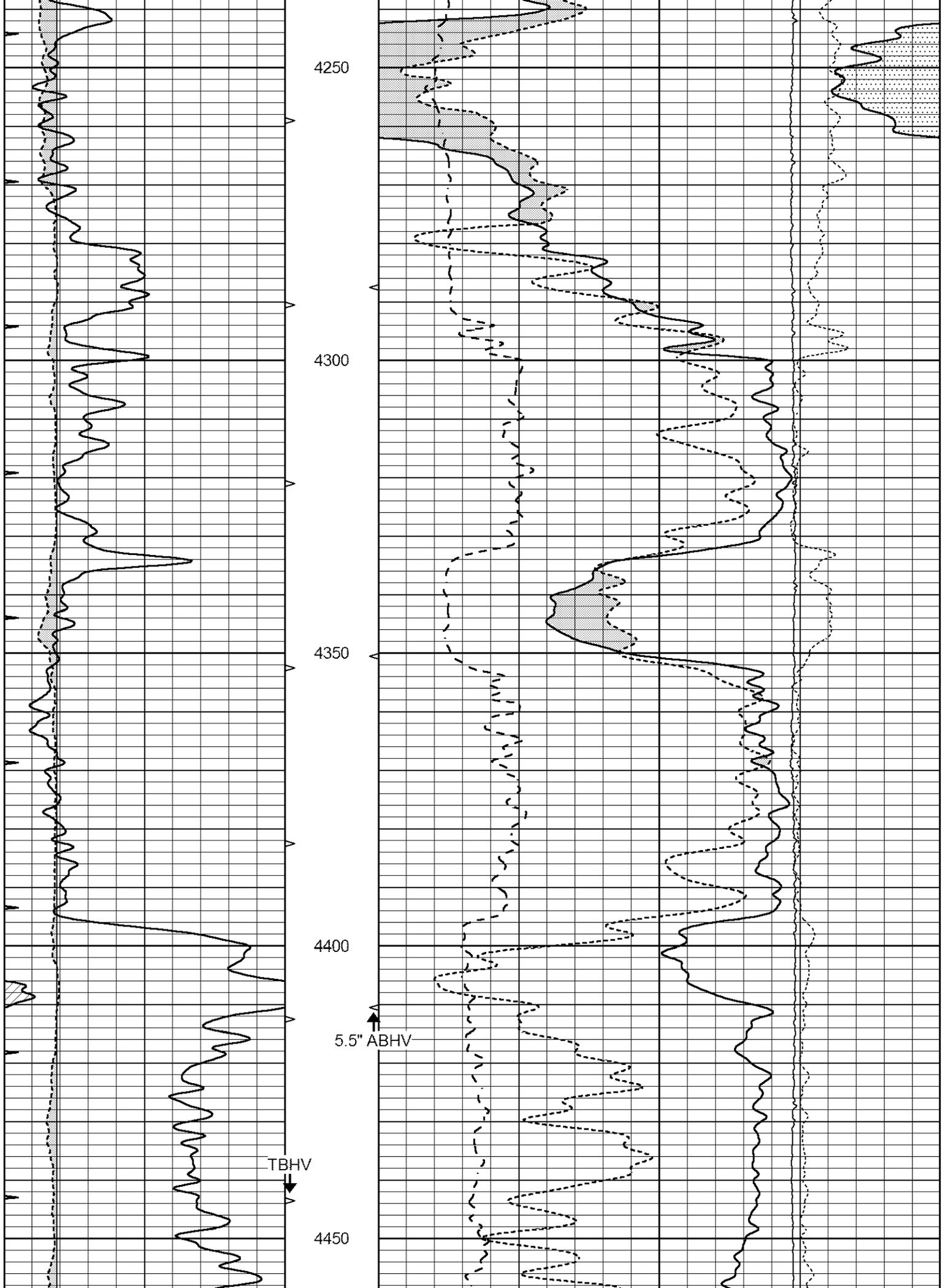
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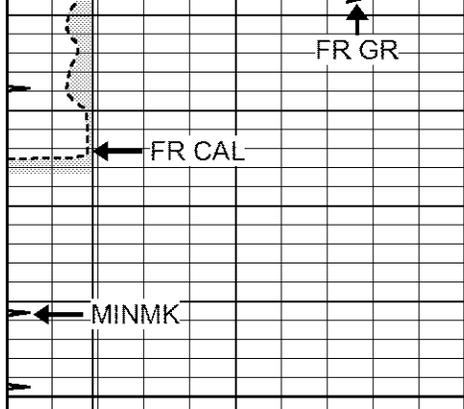
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4150

4200



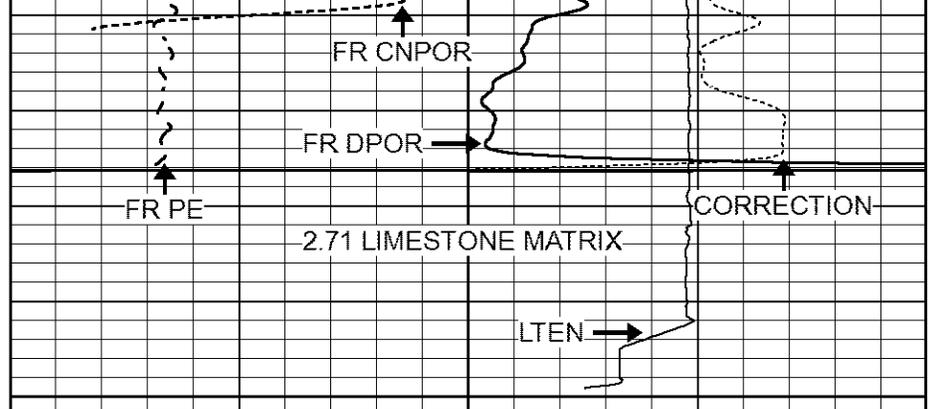




LTD 4493

4500

0	GAMMA RAY (GAPI)	150	ABHV	30
6	CALIPER (in)	16	10 (ft3)	0
0	MINMK	20	TBHV	0
			0 (ft3)	10



2.71 LIMESTONE MATRIX

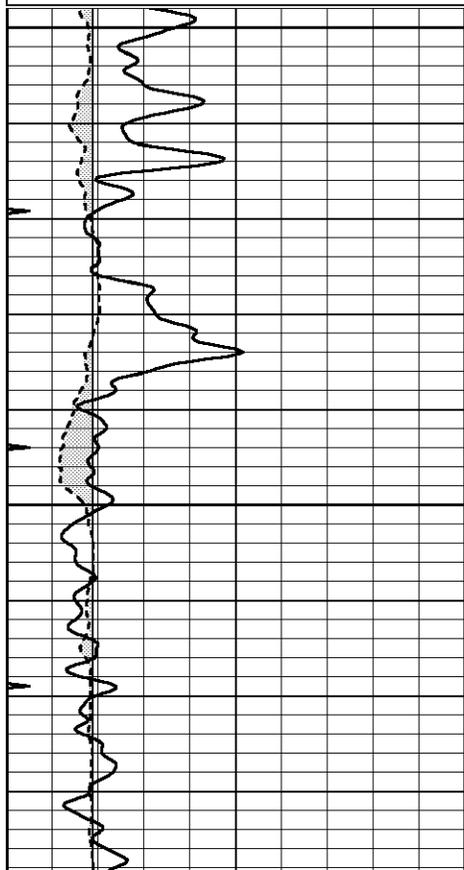
30	COMPENSATED DENSITY (pu)	-10
30	COMPENSATED NEUTRON (pu)	-10
0	PE	10
-0.25	CORRECTION (g/cc)	0.25
0	LTEN (lb)	5000



REPEAT SECTION

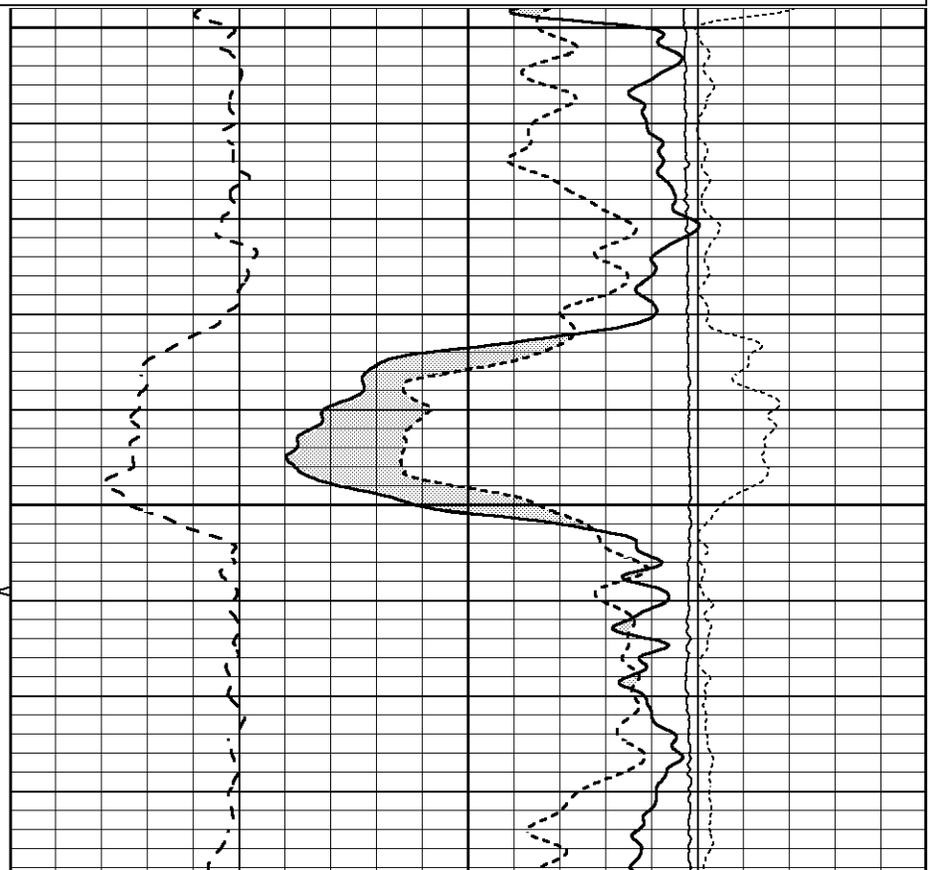
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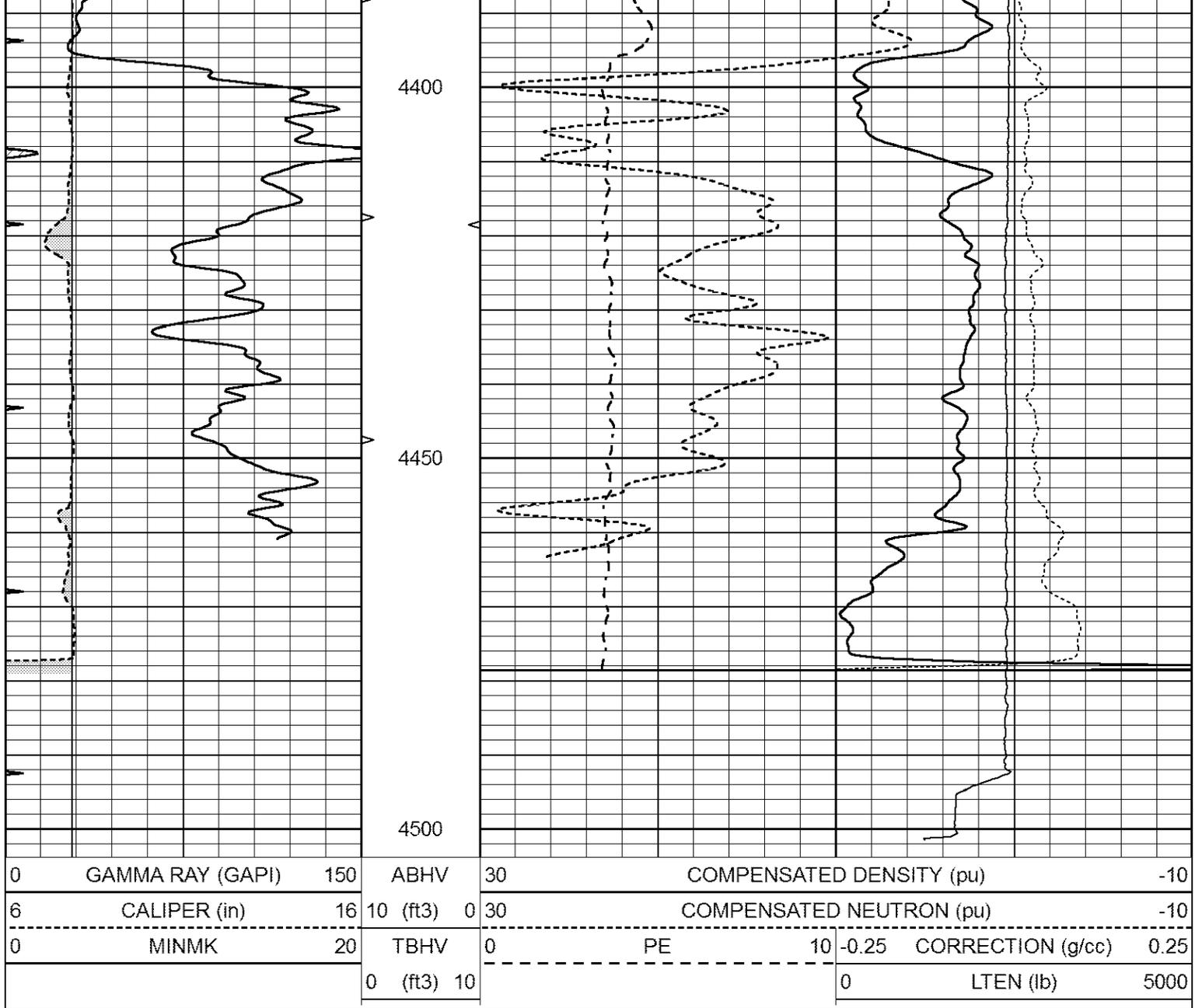
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10			
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10		
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10		0	LTEN (lb)	5000	



4300

4350





Calibration Report

Database File 7390pe.db
 Dataset Pathname pass3D
 Dataset Creation Mon Dec 12 14:49:12 2022

Dual Induction Calibration Report

Serial-Model: FW1410-56-Probe
 Surface Cal Performed: Sat Dec 10 22:45:56 2022
 Downhole Cal Performed: Tue Jul 25 12:15:37 2017
 After Survey Verification Performed: Tue Jul 25 12:15:38 2017

Surface Calibration

Loop:	Readings				References		Results	
	Air	Loop			Air	Loop	m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	580.000	-3.000
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	680.000	125.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532

Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	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: 005 Model: Litho_Ver3

Master Calibration						Performed Fri May 13 13:54:36 2012		
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1363.1	46477.8	11515.9	9589.9				cps
Window 2	1239.4	36488.4	9270.1	7998.9				cps
Window 3	1044.3	20488.1	5500.7	4913.3				cps
Window 4	315.7	358.7	321.5	319.5				cps
Long Space	0.0	35249.0	8030.7	6759.4				cps
Short Space	1.4	9675.7	6523.4	5391.9				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 45.1	Rib Slope	: 1.003	Density/Spine Ratio				: 0.575
Spine Angle	: 75.1	Spine Slope	: 3.752	Spine Intercept				: -24.0

Before Survey Verification						Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0				cps
Window 2	0.0	0.0	0.0	0.0				cps
Window 3	0.0	0.0	0.0	0.0				cps
Window 4	0.0	0.0	0.0	0.0				cps
Long Space	0.0	0.0	0.0	0.0				cps
Short Space	0.0	0.0	0.0	0.0				cps
Measured Rho		0.0000	0.0000	0.0000				g/cc
Measured Correction		0.0000	0.0000	0.0000				g/cc
Measured Pe			0.0000	0.0000				

After Survey Verification						Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0				cps
Window 2	0.0	0.0	0.0	0.0				cps
Window 3	0.0	0.0	0.0	0.0				cps
Window 4	0.0	0.0	0.0	0.0				cps
Long Space	0.0	0.0	0.0	0.0				cps
Short Space	0.0	0.0	0.0	0.0				cps
Measured Rho		0.0000	0.0000	0.0000				g/cc

Measured K10	0.0000	0.0000	0.0000	g/cc
Measured Correction	0.0000	0.0000	0.0000	g/cc
Measured Pe		0.0000	0.0000	

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: Thu May 26 08:56:46 2022

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps