COMPENSATED DENSITY/NEUTRON LOG

Company DOWNING - NELSON OIL COMPANY, INC.

Well HFI #2-27

Field UNNAMED

County RAWLINS State KANSAS

Location: API # : 15-153-21328-0000

1549' FSL & 1459' FWL

SEC 27 TWP 4S RGE 36W

Other Services
DIL/MEL
SONIC/FF

Elevation
K.B. 3369
D.F. 3367
G.L. 3358

Permanent Datum GROUND LEVEL Elevation 3358
Log Measured From KELLY BUSHING 11' A.G.L
Drilling Measured From KELLY BUSHING

Company DOWNING - NELSON OIL CO., INC.
Well HFI #2-27
Field UNNAMED
County RAWLINS
State KANSAS

Date	4/1/24		
Run Number	ONE		
Depth Driller	4960		
Depth Logger	4962		
Bottom Logged Interval	4938		
Top Log Interval	3600		
Casing Driller	8.625@478		
Casing Logger	478		
Bit Size	7.785		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,200 PPM	
Density / Viscosity	9.5/67		
pH / Fluid Loss	10.5/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.00@60F		
Rmf @ Meas. Temp	1.50@60F		
Rmc @ Meas. Temp	2.40@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.960@125F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	125F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS	JEREMEY PASEK	
Witnessed By	MARC DOWNING		

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Comments

15-153-21328-0000

THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395

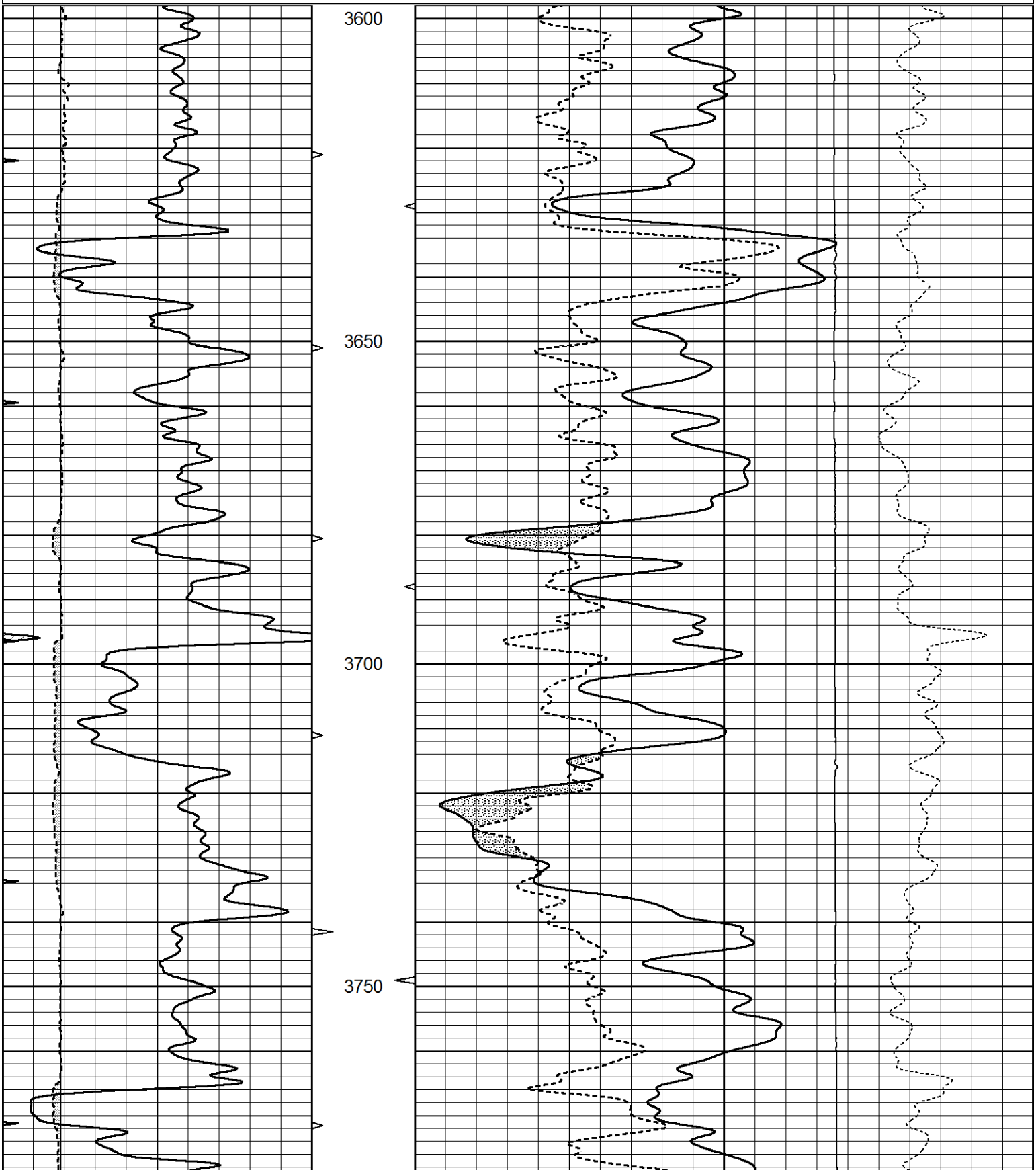
DIRECTIONS

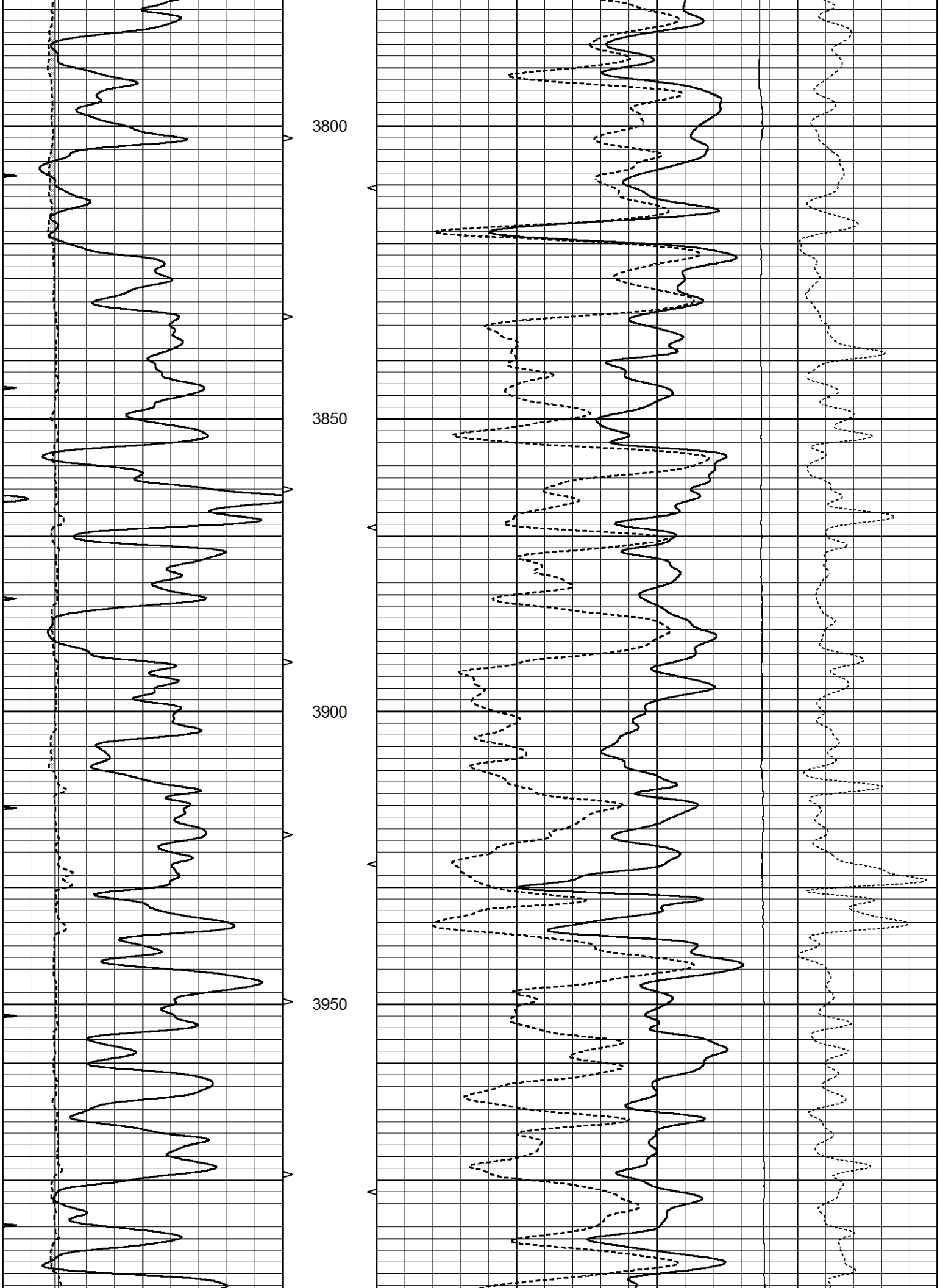
BREWSTER, KS., N. TO "RD. H", 1E., 1/2N. ON TRAIL & E. INTO

MAIN SECTION

Database File	8479ddn.db
Dataset Pathname	pass4.1M
Presentation Format	_den_neu
Dataset Creation	Mon Apr 01 21:44:38 2024
Charted by	Depth in Feet scaled 1:240

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

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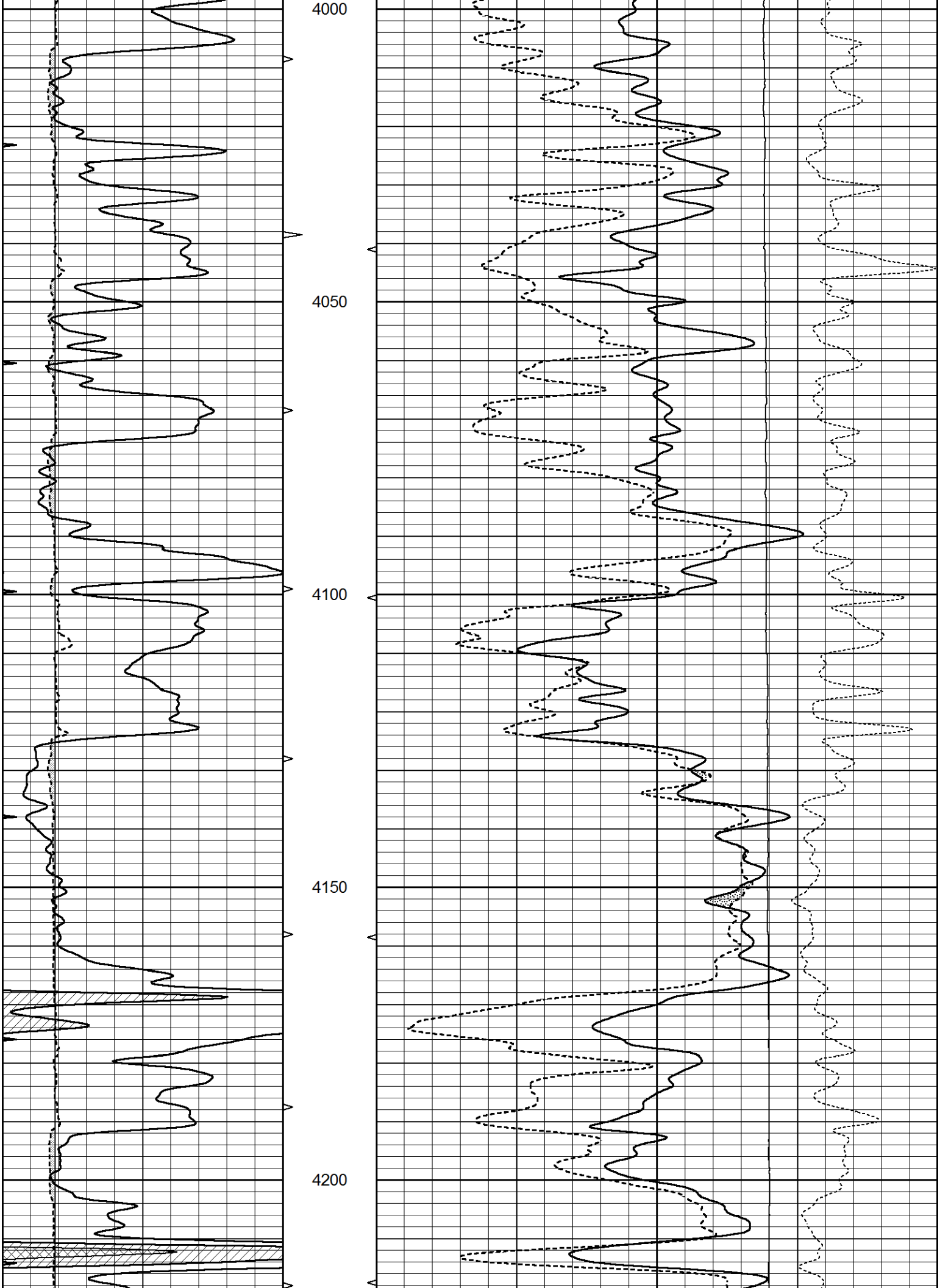
3900
3950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4100
4150
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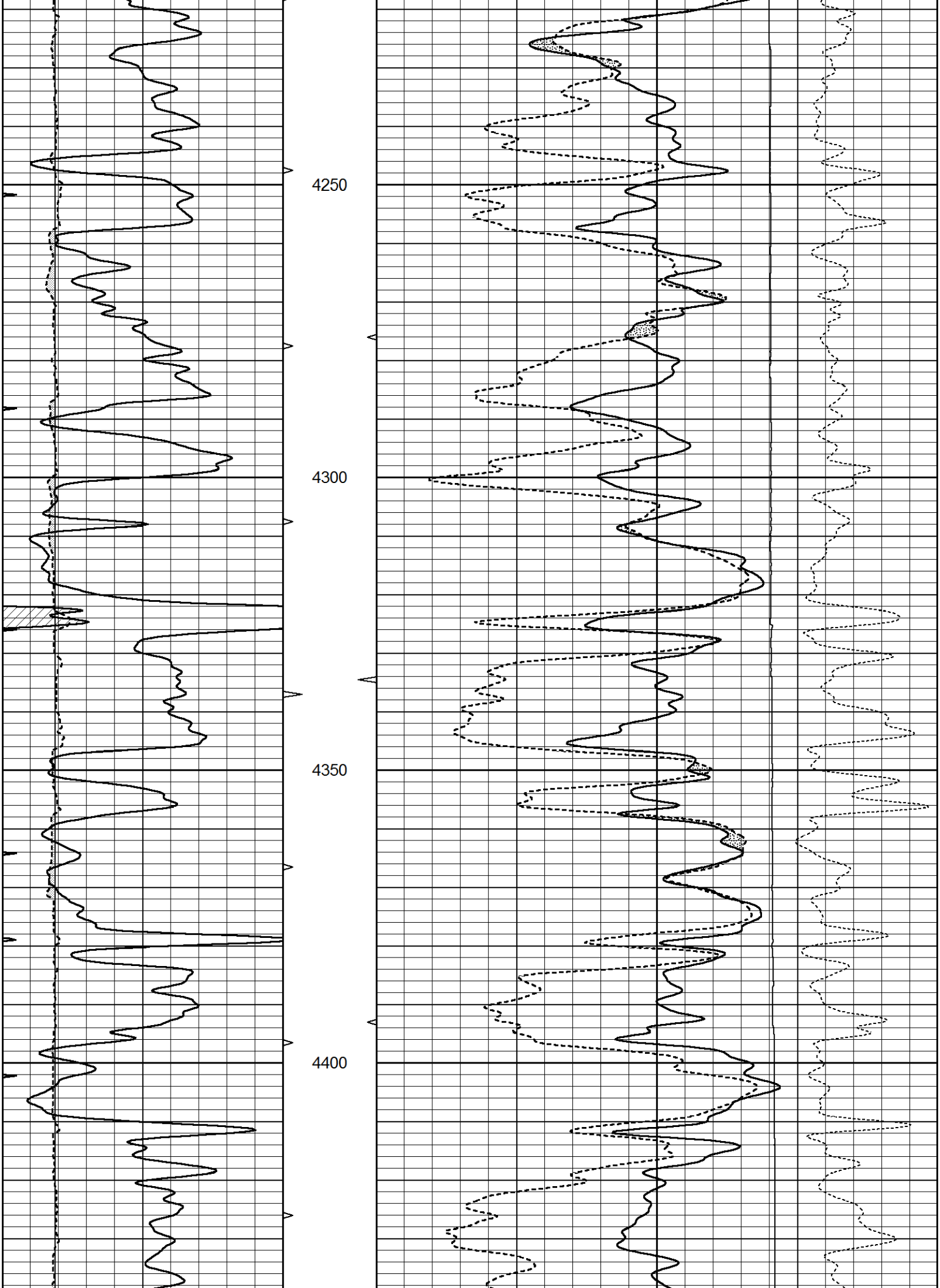
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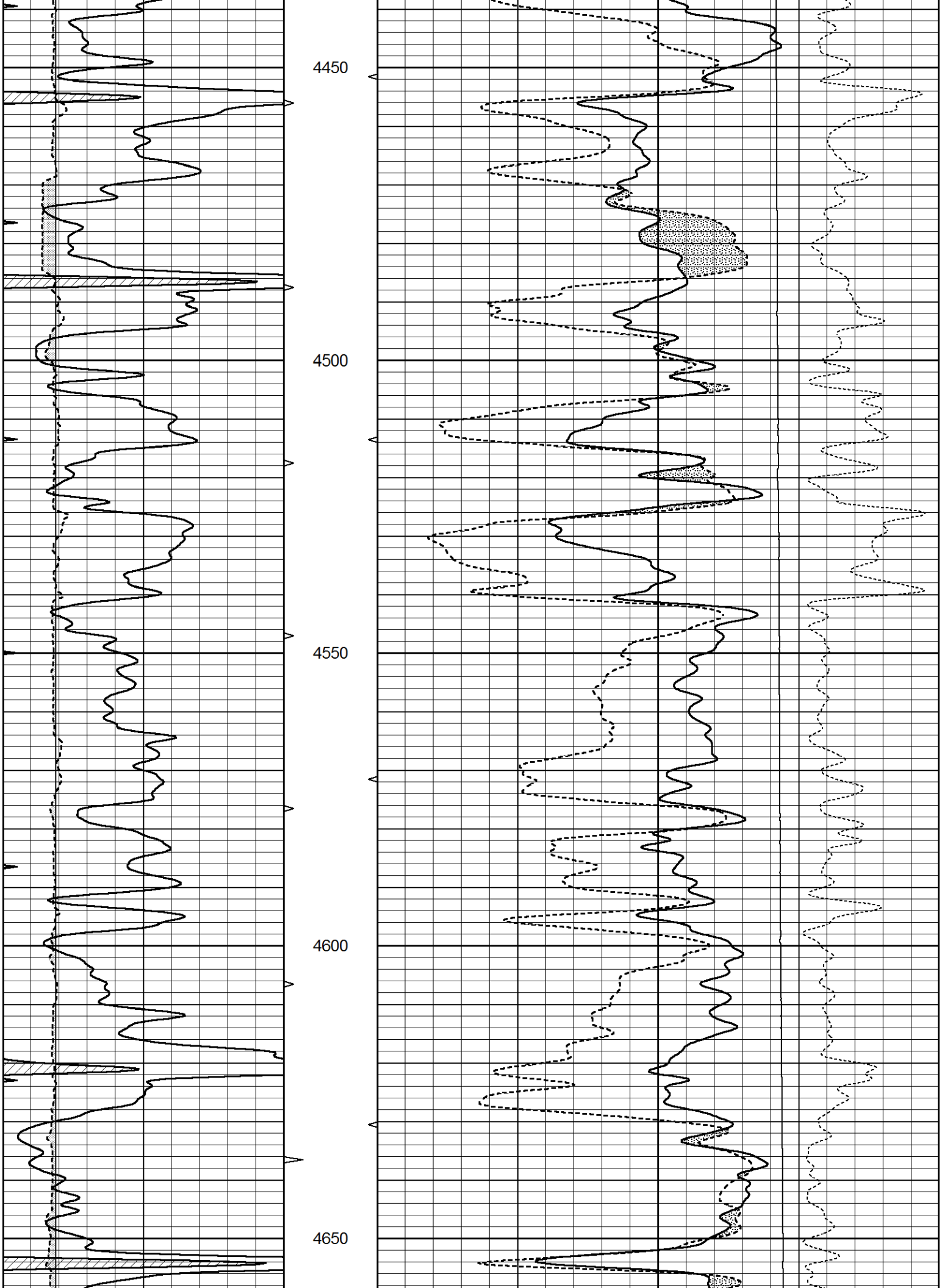
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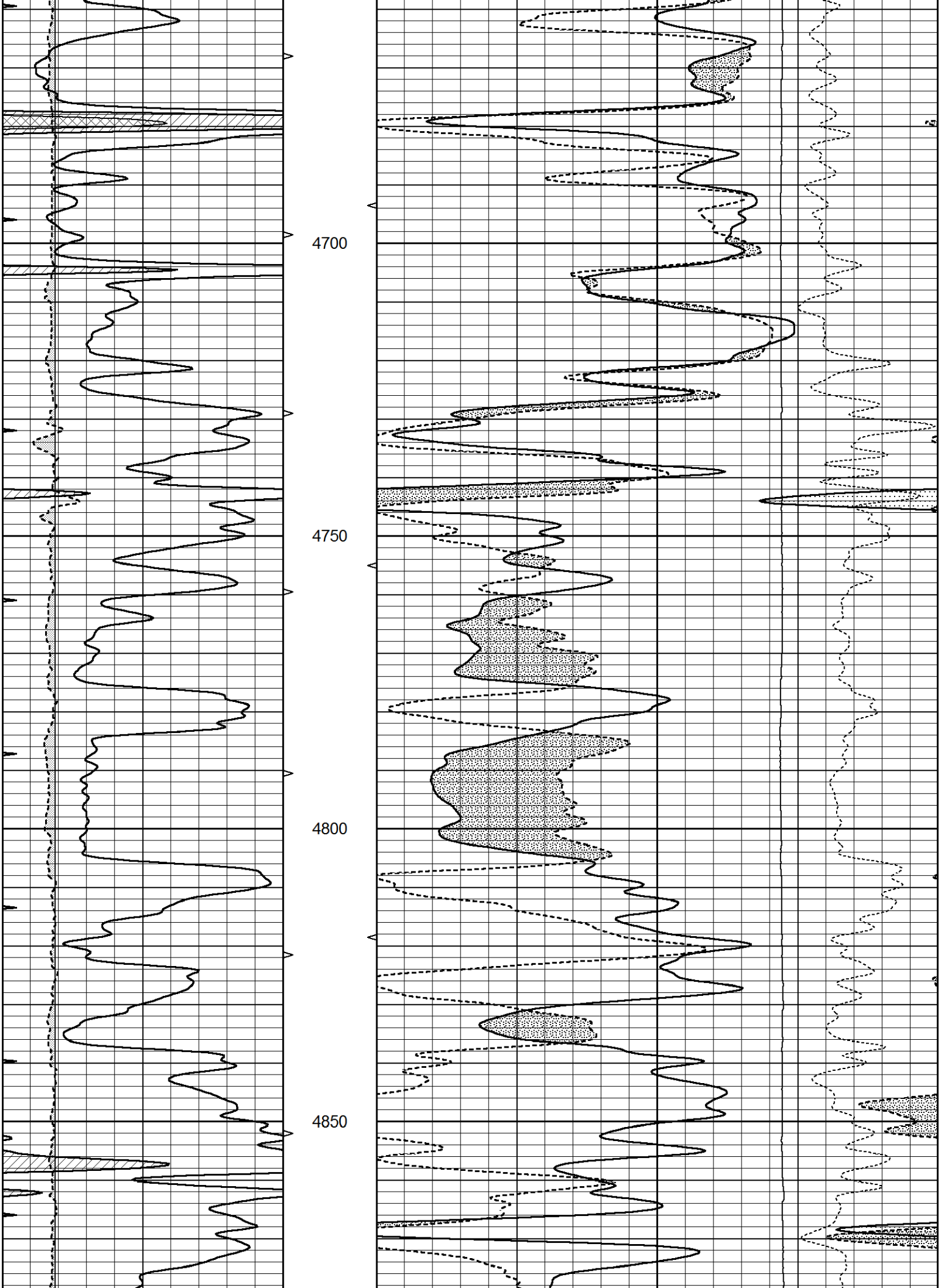
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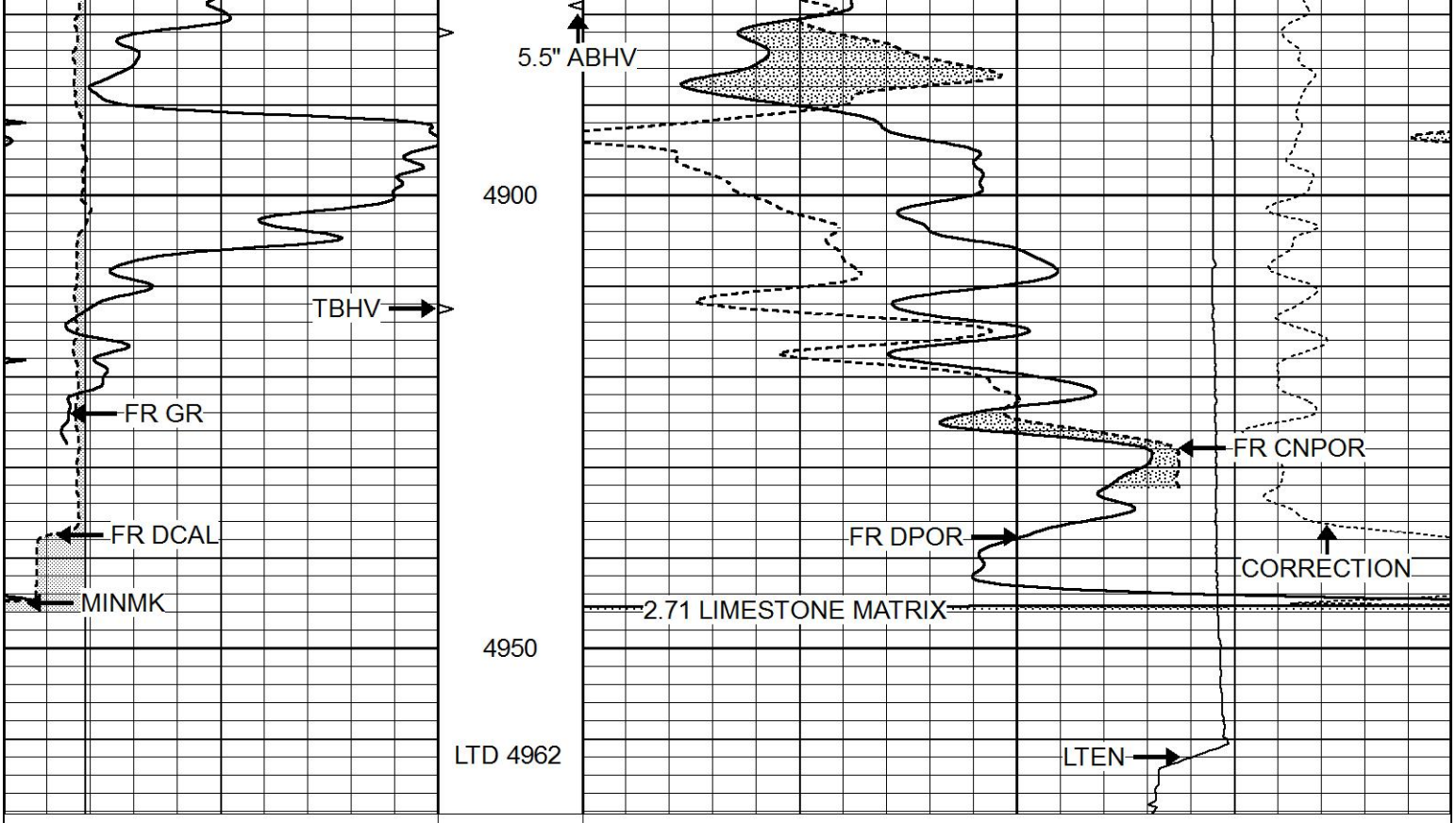
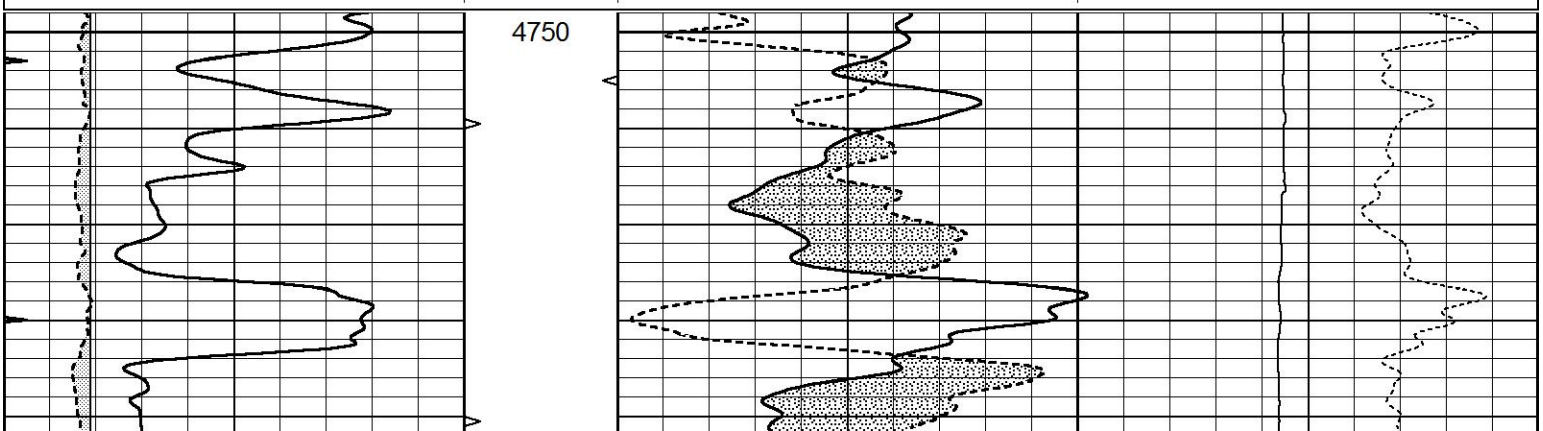


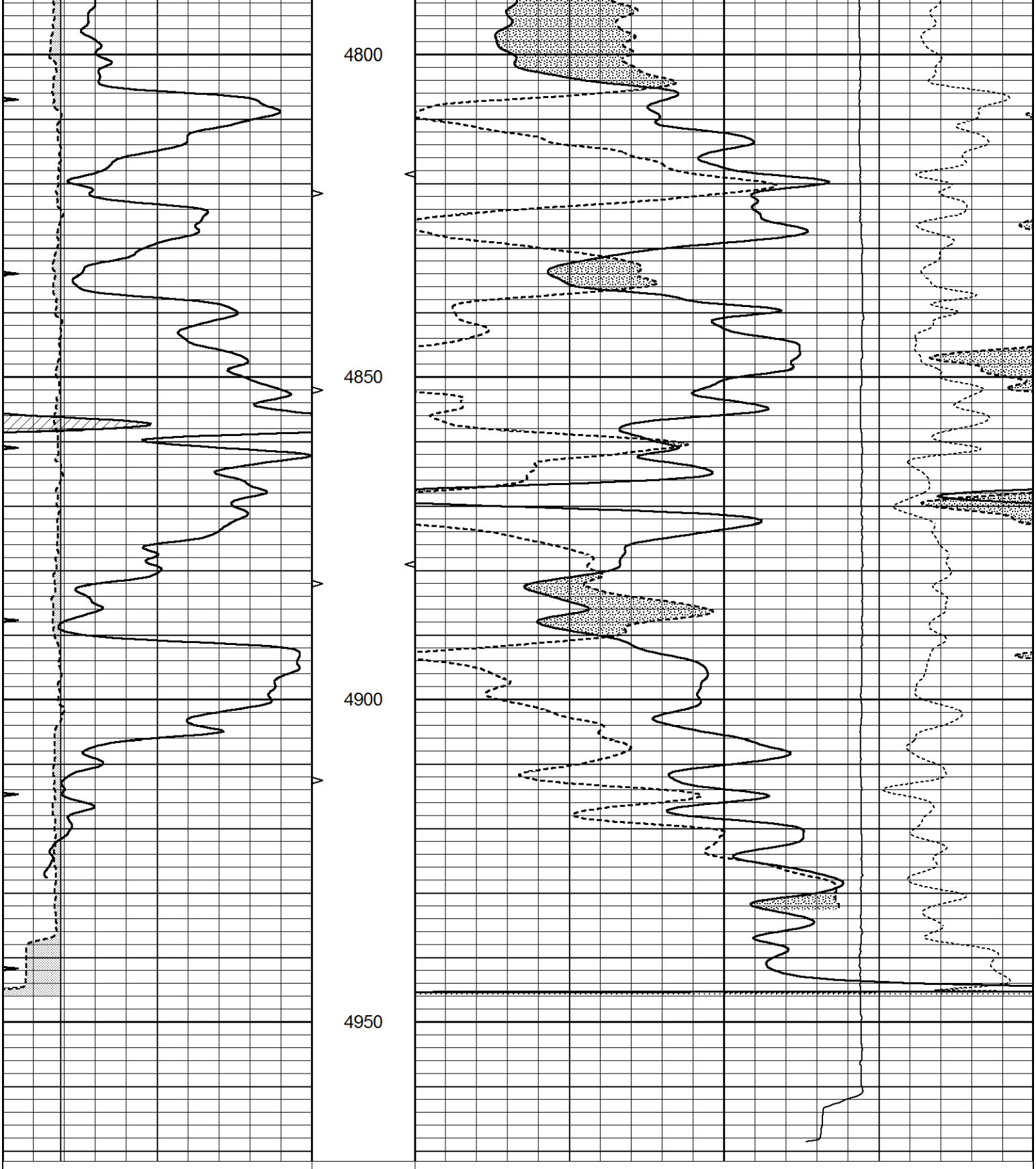
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	DCAL (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	TBHV			-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			0 LTEN (lb)	5000

REPEAT SECTION

Database File	8479ddn.db
Dataset Pathname	pass3.1R
Presentation Format	_den_neu
Dataset Creation	Mon Apr 01 21:41:29 2024
Charted by	Depth in Feet scaled 1:240

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





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

Calibration Report

Database File	8479ddn.db
Dataset Pathname	pass4.1M
Dataset Creation	Mon Apr 01 21:44:38 2024

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Mon Apr 01 20:45:17 2024
Downhole Cal Performed:	Mon Aug 14 00:39:25 2023
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	660.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	-10.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report
Serial: 001 Model: PRB

Master Calibration

Performed Tue Aug 02 14:54:49 2022

	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1540.1	9840.1	3279.8	3001.8	cps
Window 2	1435.6	8495.4	2920.3	2720.3	cps
Window 3	1167.4	4527.9	1868.6	1810.1	cps
Window 4	344.6	343.5	346.7	342.3	cps
Long Space	0.0	7059.8	1484.8	1284.7	cps
Short Space	3.3	2502.7	1618.3	1368.5	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	

Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.544
Spine Angle	: 74.4	Spine Slope	: 3.576	Spine Intercept	: -19.1

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 Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 070808PMC
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:	070558	
Tool Model:	OPEN_GR	
Performed:	Wed Mar 20 11:08:27 2024	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps