

COMPENSATED DENSITY/NEUTRON PE LOG

Company DARRAH OIL COMPANY, LLC

Well YOUNKIN #1-12

Field UNNAMED

County LOGAN State KANSAS

Location: API #: 15-109-21672-0000

2219' FSL & 1294' FWL
SE - NE - NW - SW
SEC 12 TWP 14S RGE 34W

Permanent Datum GROUND LEVEL Elevation 2868
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL
SONIC

Elevation

K.B. 2879
D.F. 2877
G.L. 2868

Date 4/12/24

Run Number ONE

Depth Driller 4540

Depth Logger 4541

Bottom Logged Interval 4517

Top Log Interval 3500

Casing Driller 8.625@222

Casing Logger 222

Bit Size 7.785

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2/50

pH / Fluid Loss 10.5/8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp .850@65F

Rmf @ Meas. Temp .638@65F

Rmc @ Meas. Temp 1.02@65F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .457@121F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 12:00 A.M.

Maximum Recorded Temperature 121F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By JARRED LEIS

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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.

15-109-21672-0000

Comments

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

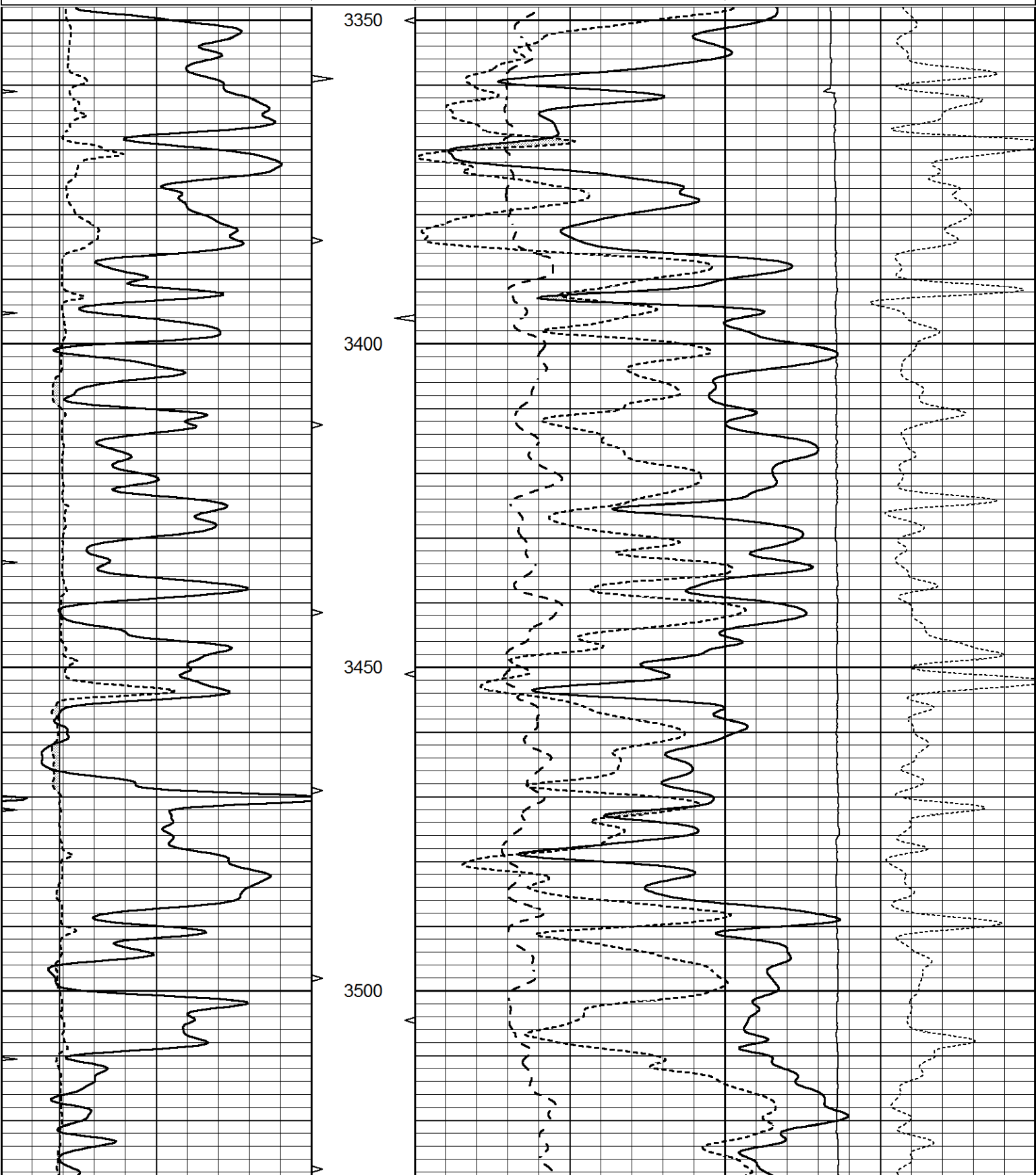
MONUMENT, KS. & OLD 40, W. SIDE, TAKE "RD. 350" 17S. TO "LARIAT RD.", 1W. TO CURVE, S.
ACROSS CATTLE GUARD, W. ON TRAIL ACROSS SECOND CATTLE GUARD THEN S. ALONG
FENCELINE AND BACK WEST

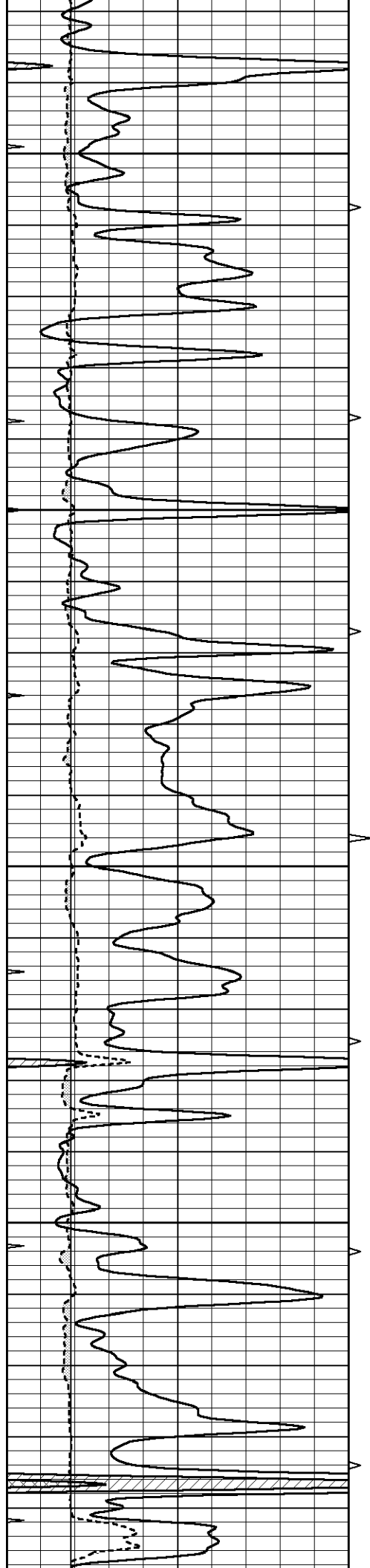


MAIN SECTION

Database File	8485pe.db
Dataset Pathname	pass4.1M
Presentation Format	_ldt_neu
Dataset Creation	Fri Apr 12 02:22:14 2024
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



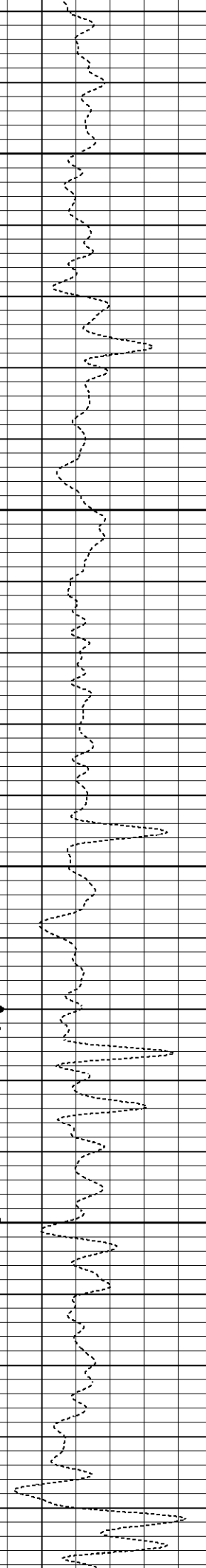
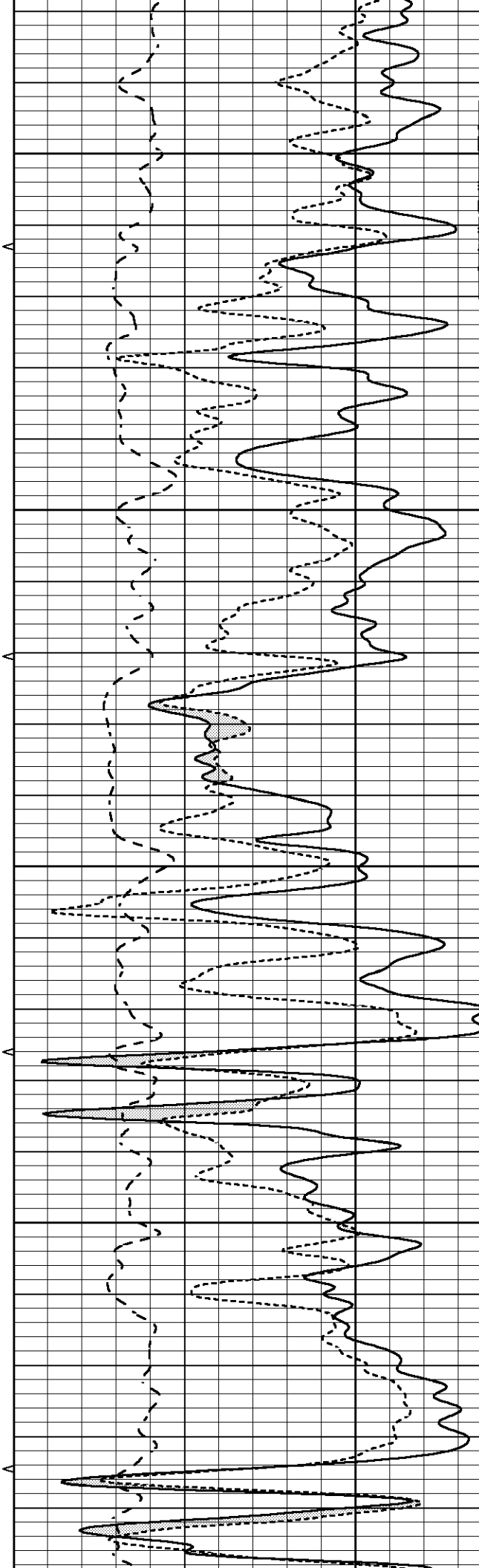


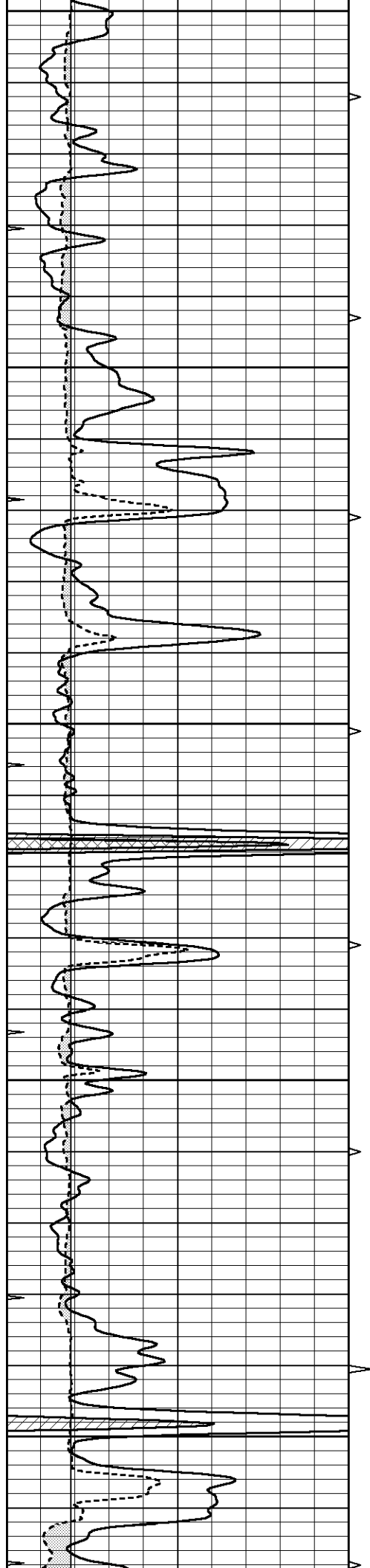
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3600

3650

3700





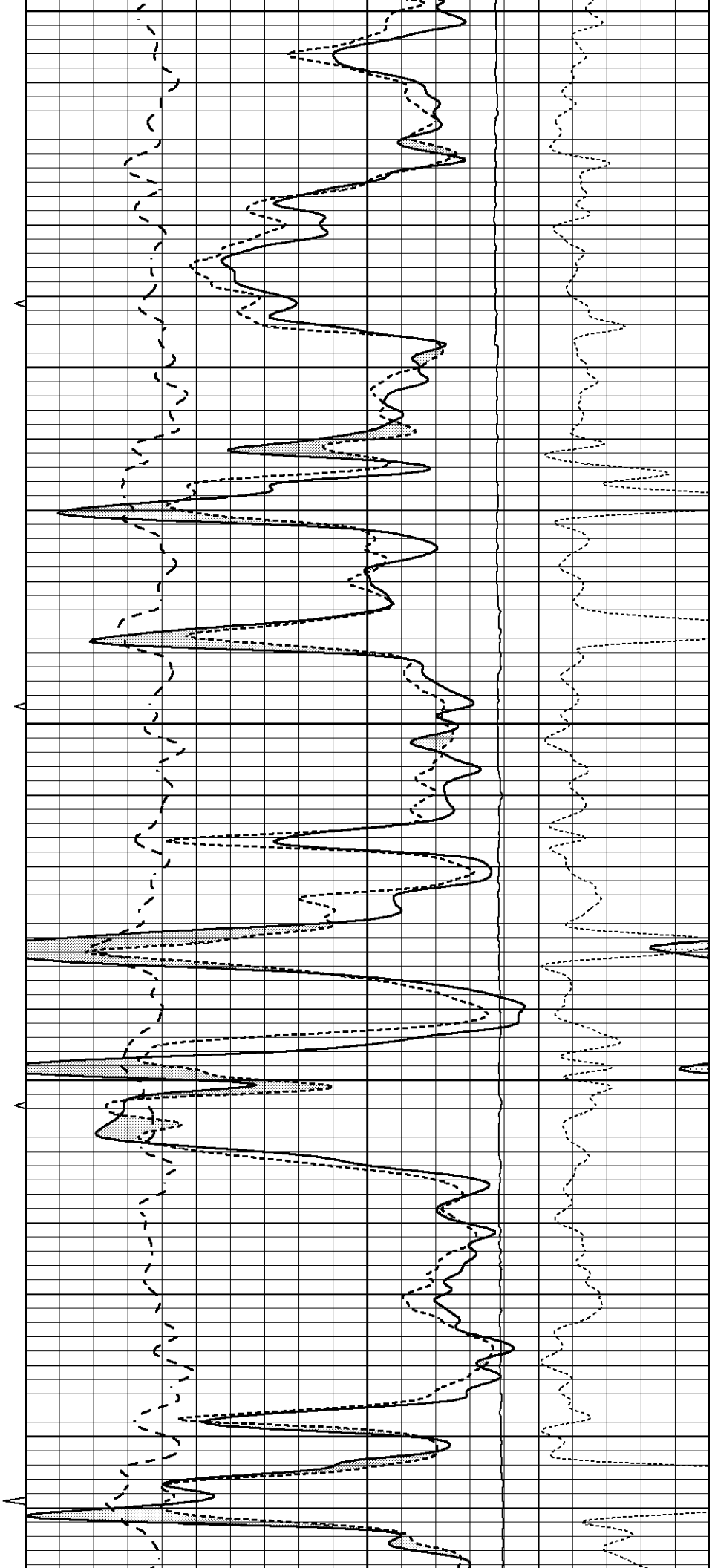
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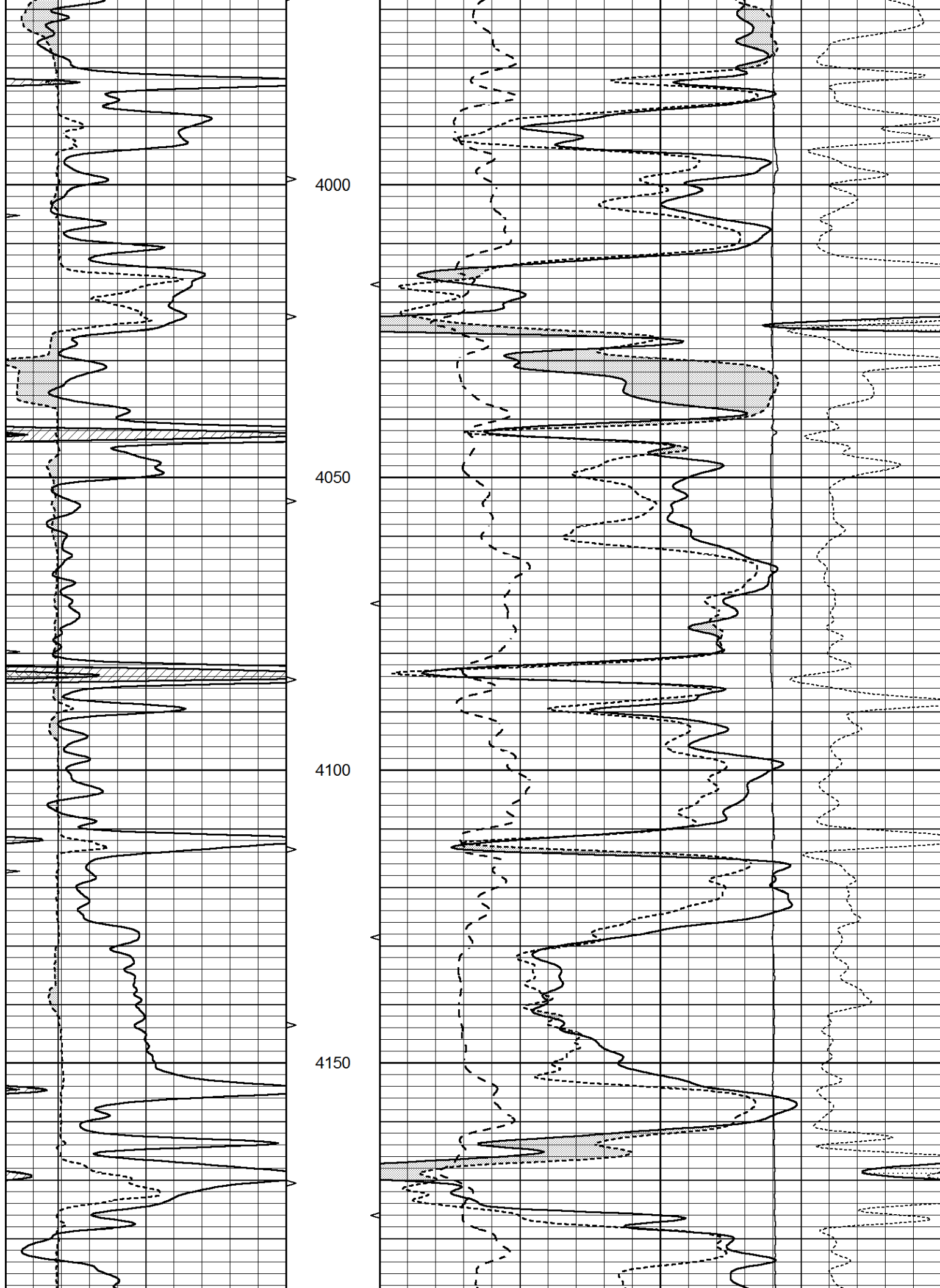
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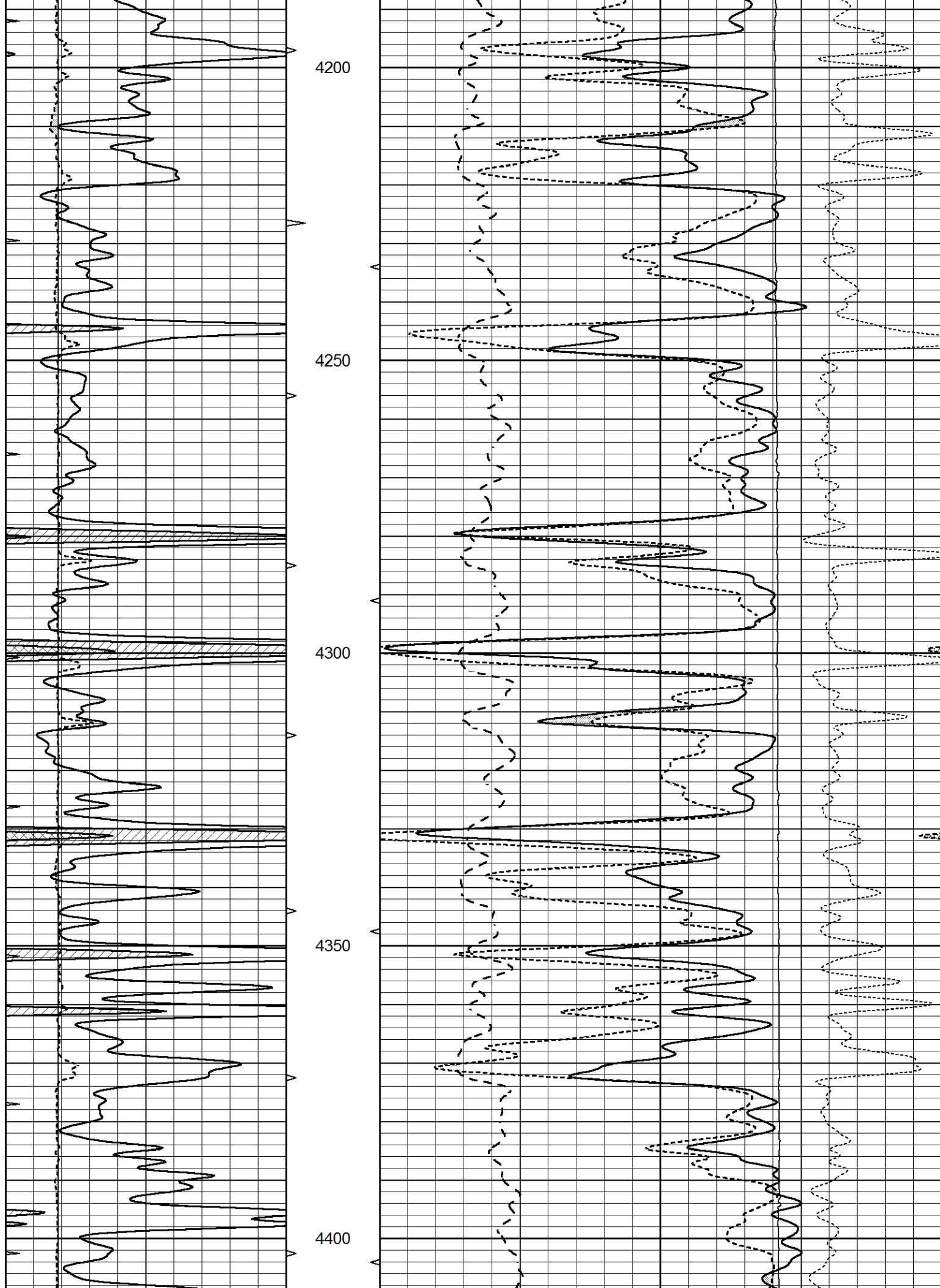
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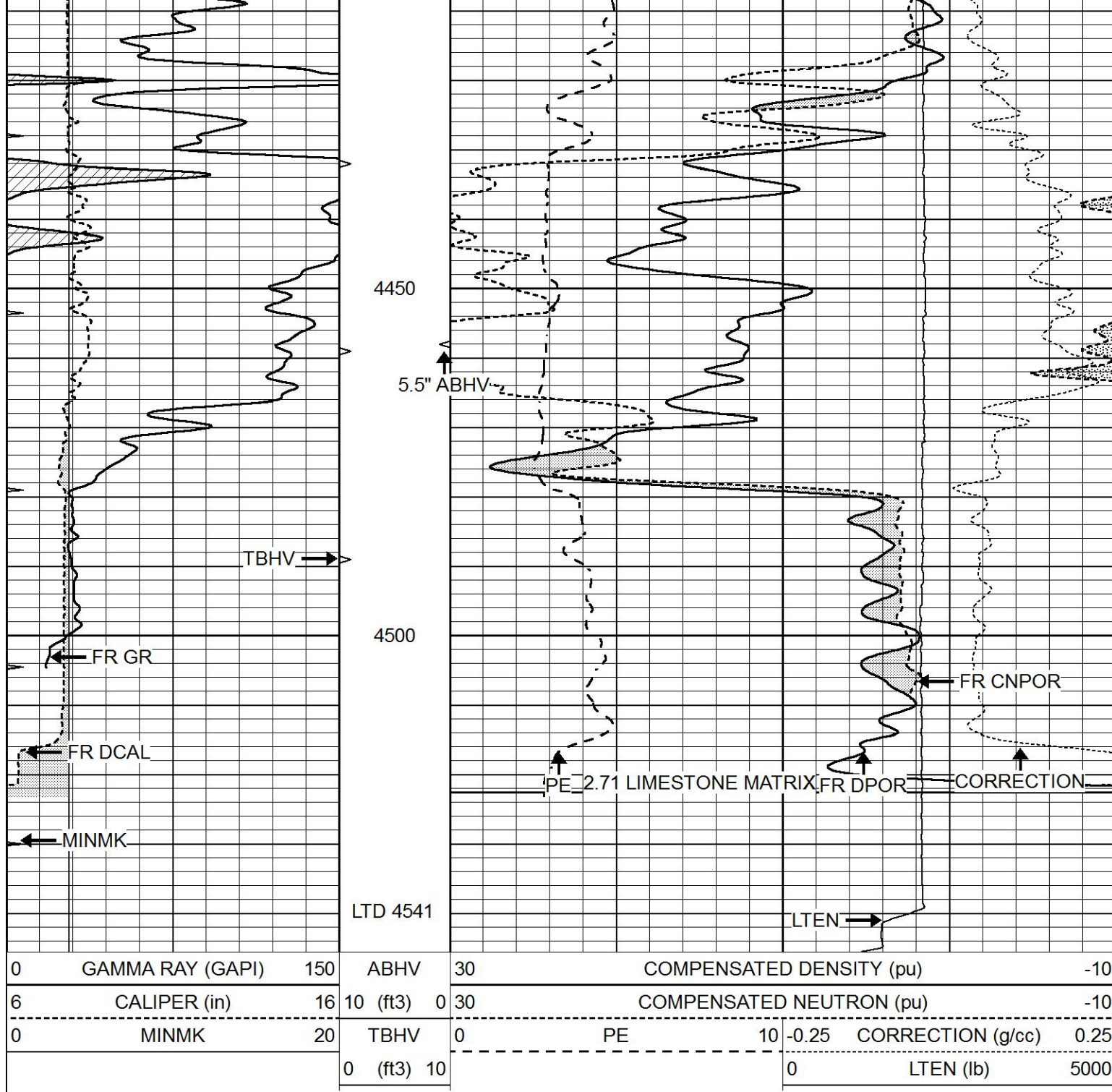
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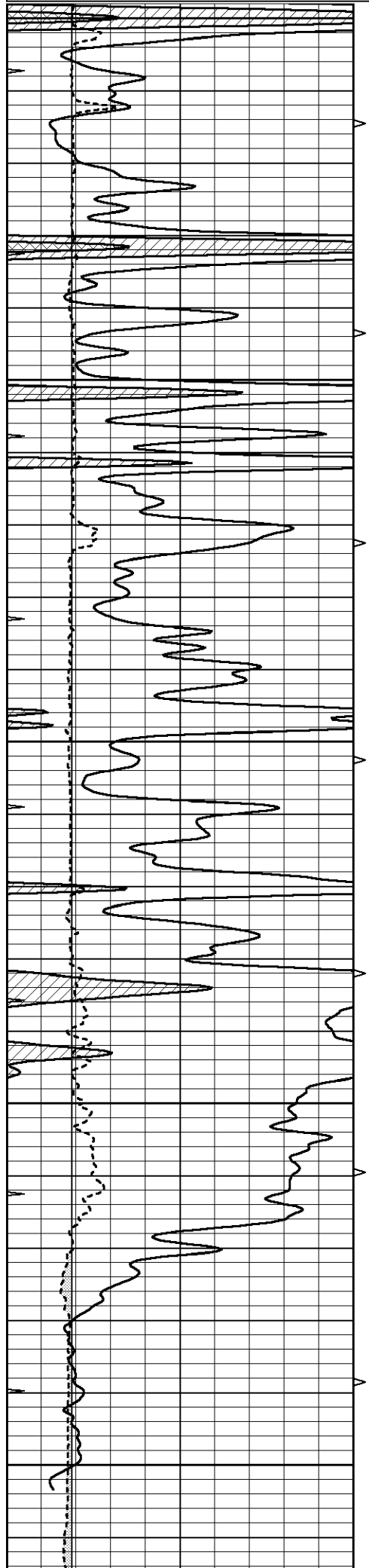




REPEAT SECTION

Database File 8485pe.db
 Dataset Pathname pass3.1R
 Presentation Format _ldt_neu
 Dataset Creation Fri Apr 12 01:17:40 2024
 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



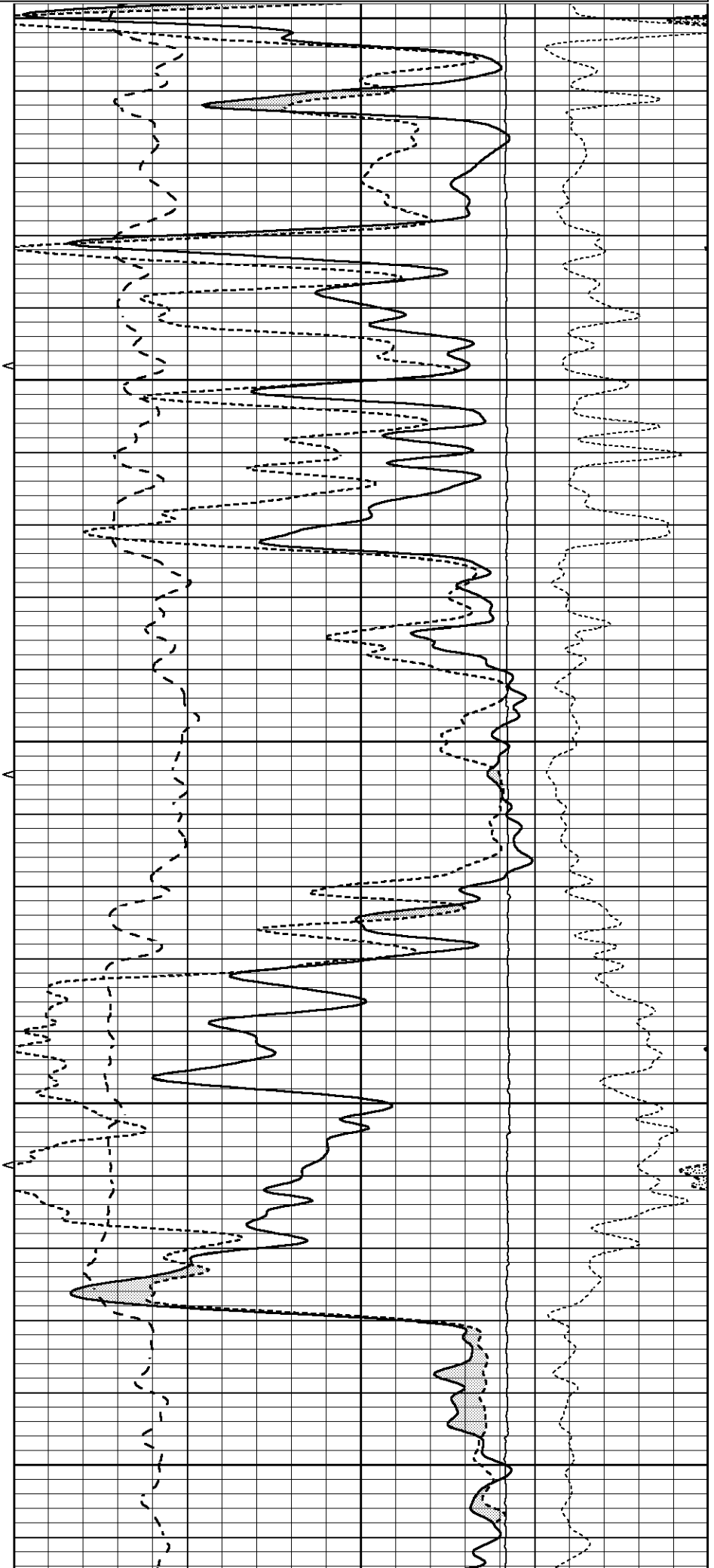
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4400

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4500



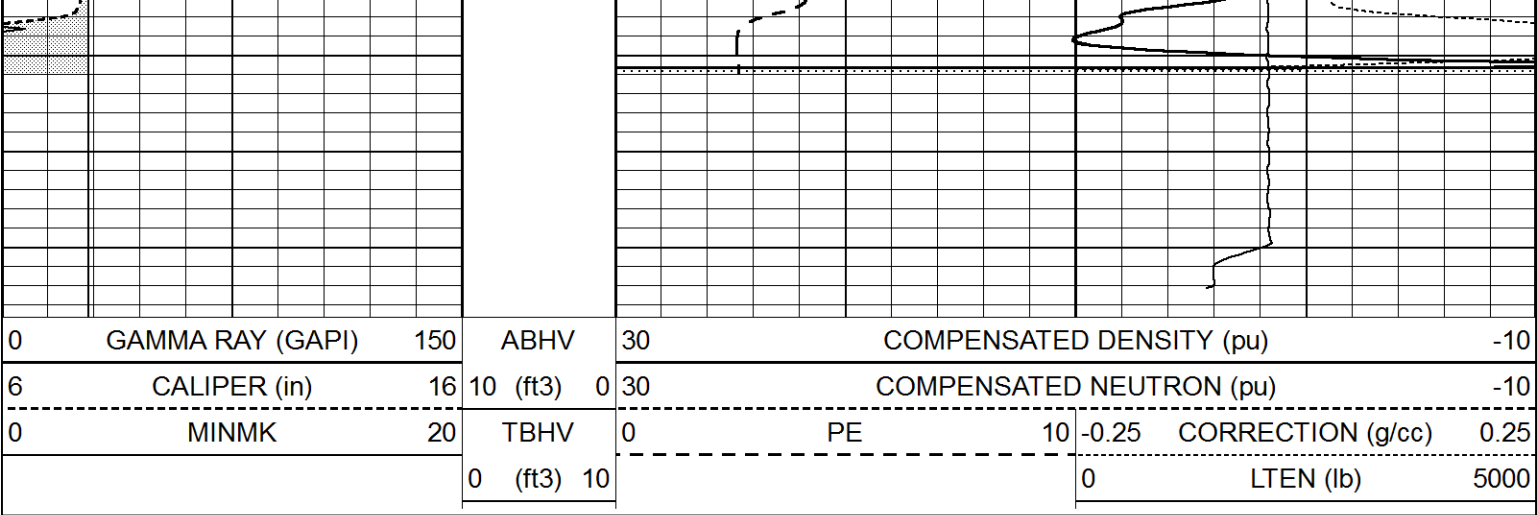
4300

4350

4400

4450

4500



Calibration Report									
Database File	8485pe.db								
Dataset Pathname	pass4.1M								
Dataset Creation	Fri Apr 12 02:22:14 2024								
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Fri Apr 12 01:07:11 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	16.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	4.000	
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: 004				Model: PRB					

Master Calibration		Performed Tue Aug 02 11:29:35 2022			
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1154.2	10019.5	3137.9	2795.6	cps
Window 2	1054.4	8597.6	2733.4	2469.5	cps
Window 3	902.3	5241.4	1832.1	1719.3	cps
Window 4	251.9	261.1	255.8	252.9	cps
Long Space	0.0	7543.2	1679.0	1415.0	cps
Short Space	4.4	2049.3	1321.7	1116.8	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio	: 0.562
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept	: -17.2

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				
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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