

COMPENSATED DENSITY/NEUTRON PE LOG

Company INDIAN OIL COMPANY, INC.

Well PARKER #10

Field NESS CITY NORTH

County NESS State KANSAS

Location: API #: 15-135-26193-0000

930' FNL & 1190' FWL

NE - SE - NW - NW

SEC 25 TWP 18S RGE 24W

Permanent Datum GROUND LEVEL Elevation 2251
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation

K.B. 2258
D.F. 2256
G.L. 2251

Date 11/10/22

Run Number ONE

Depth Driller 4360

Depth Logger 4360

Bottom Logged Interval 4336

Top Log Interval 3400

Casing Driller 8 5/8" @ 221'

Casing Logger 222

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD CHLORIDES: 7,500 PPM

Density / Viscosity 9.1/50

pH / Fluid Loss 9.5/10.0

Source of Sample FLOWLINE

Rm @ Meas. Temp .580 @ 72F

Rmf @ Meas. Temp .435 @ 72F

Rmc @ Meas. Temp .827 @ 72F

Source of Rmf / Rmc MEASURED

Rm @ BHT .351 @ 119F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 7:15 A.M.

Maximum Recorded Temperature 119F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By AARON YOUNG

ANTHONY FARRAR

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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

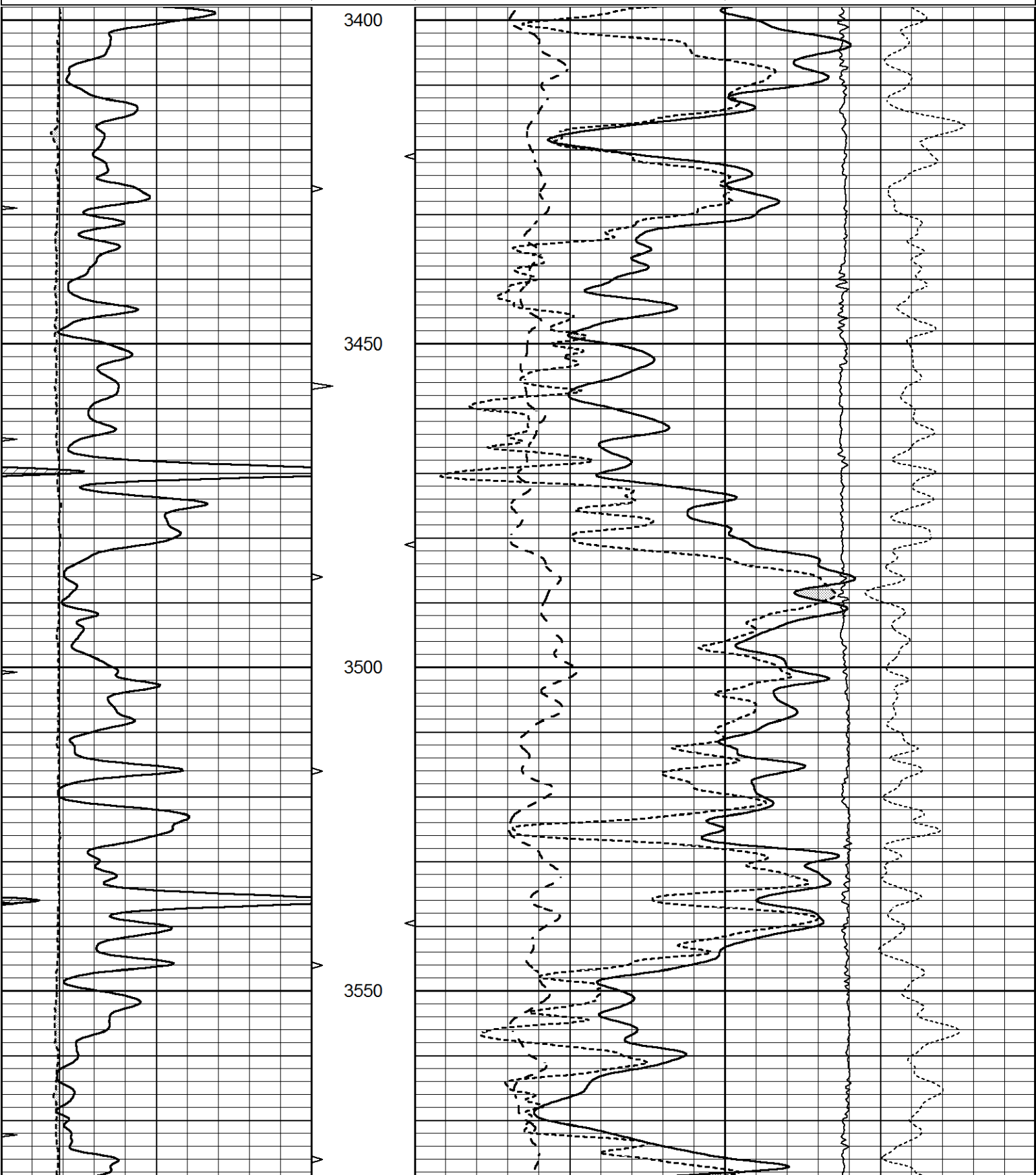
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
NESS CITY, KS., HWY 283 & RD. 140 (SWIFT CEMENTING) 1 1/2W., S. INTO

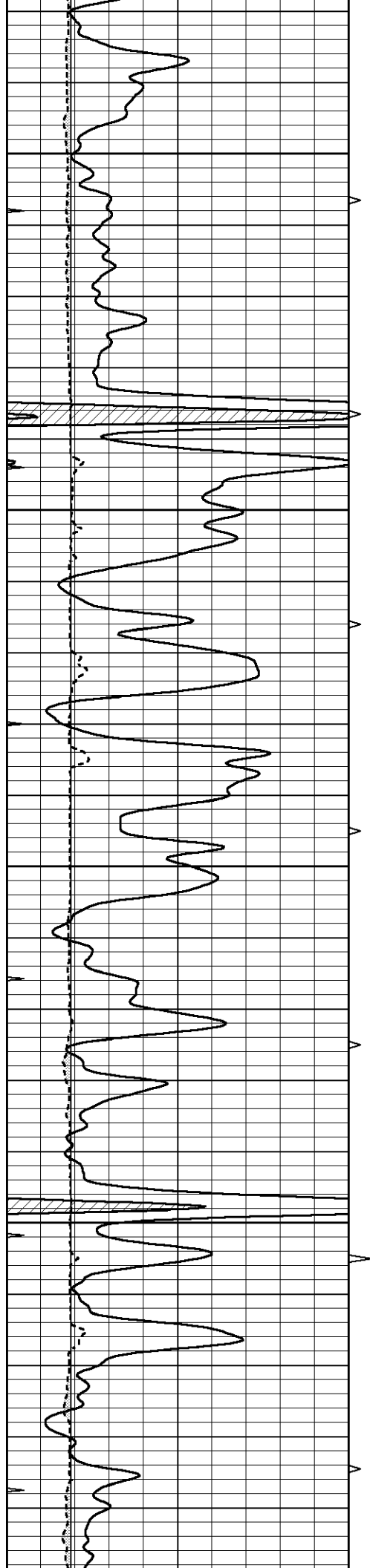


MAIN SECTION

Database File	6719pe.db
Dataset Pathname	pass3.1M
Presentation Format	ldt_neu
Dataset Creation	Thu Nov 10 09:06:05 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	LTEN (lb)	5000
			0 (ft3)	10			-0.25	CORRECTION (g/cc)	0.25



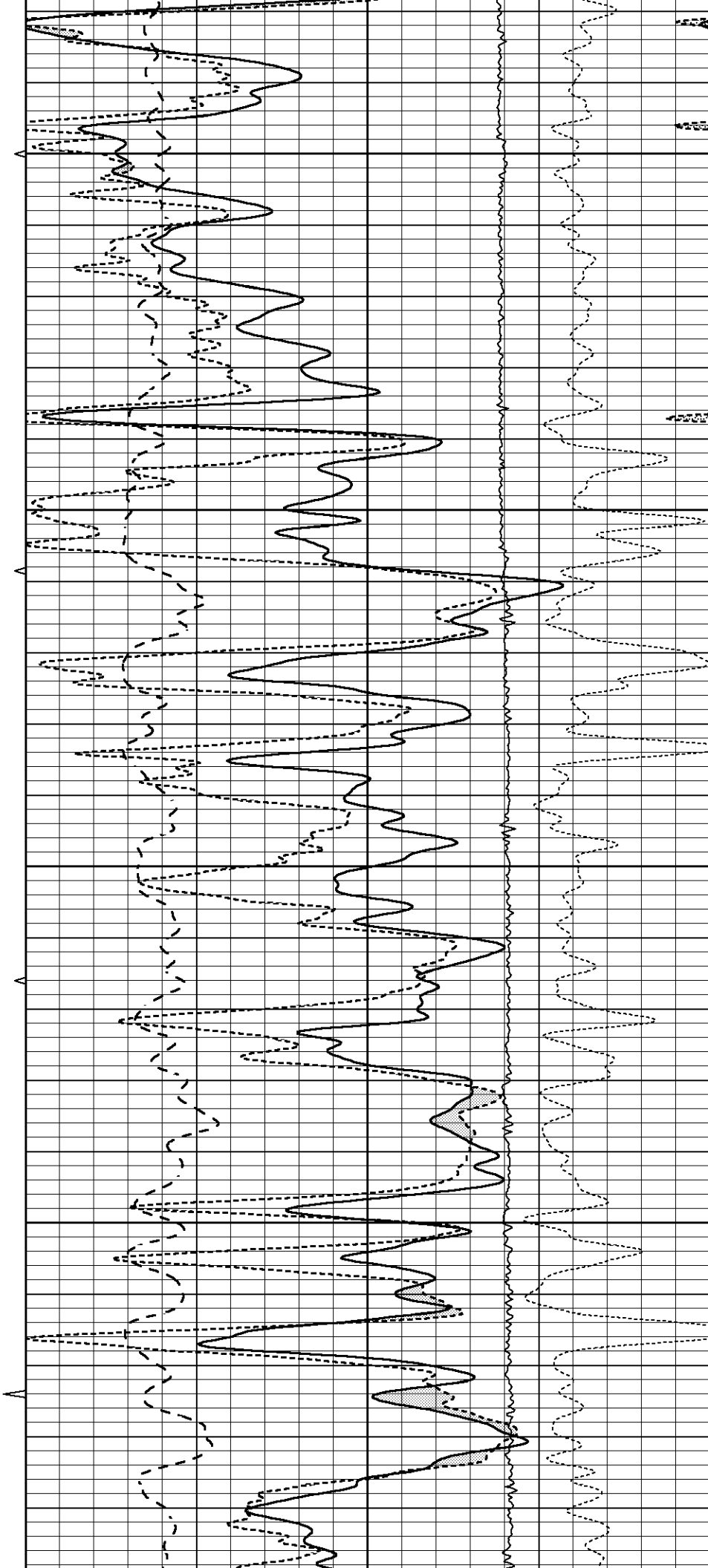


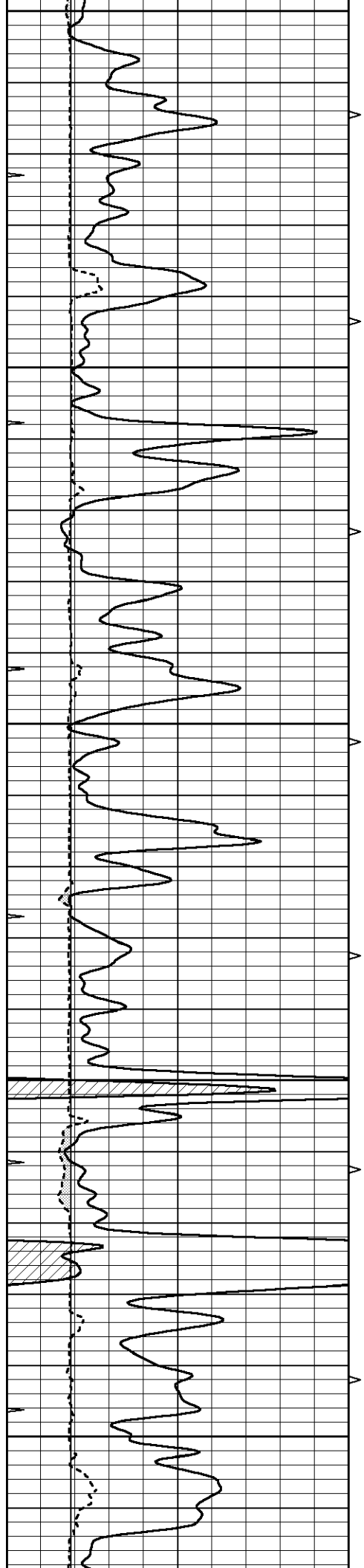
3600

3650

3700

3750





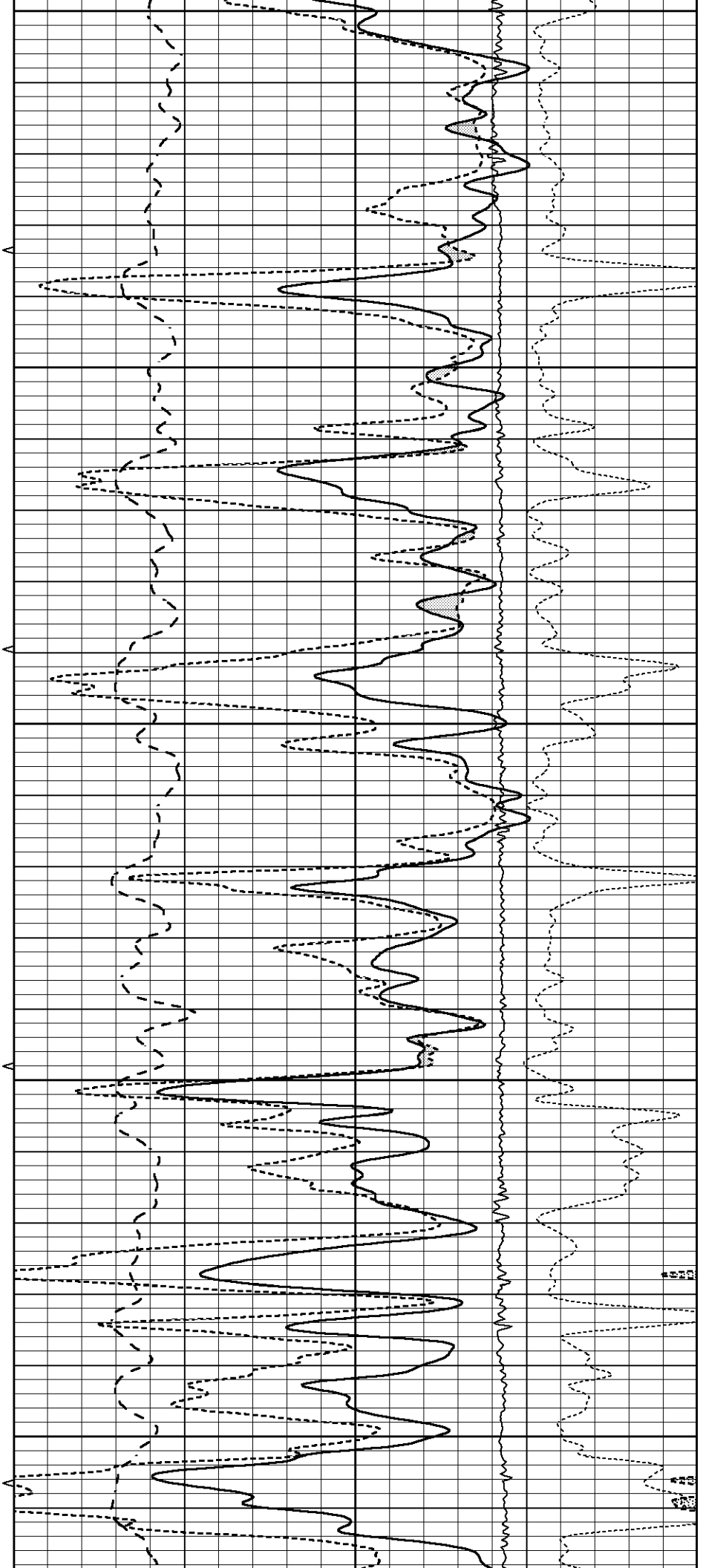
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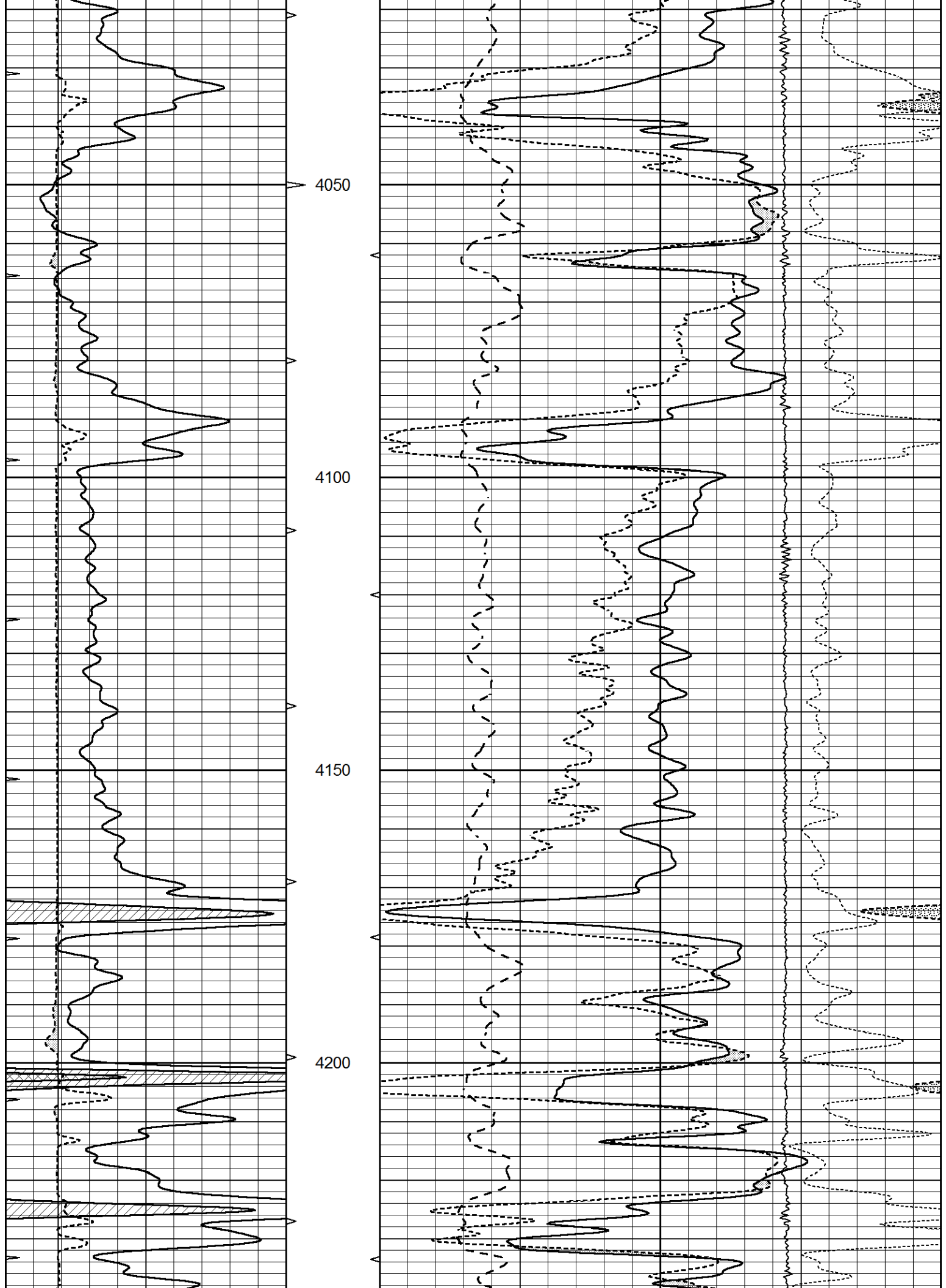
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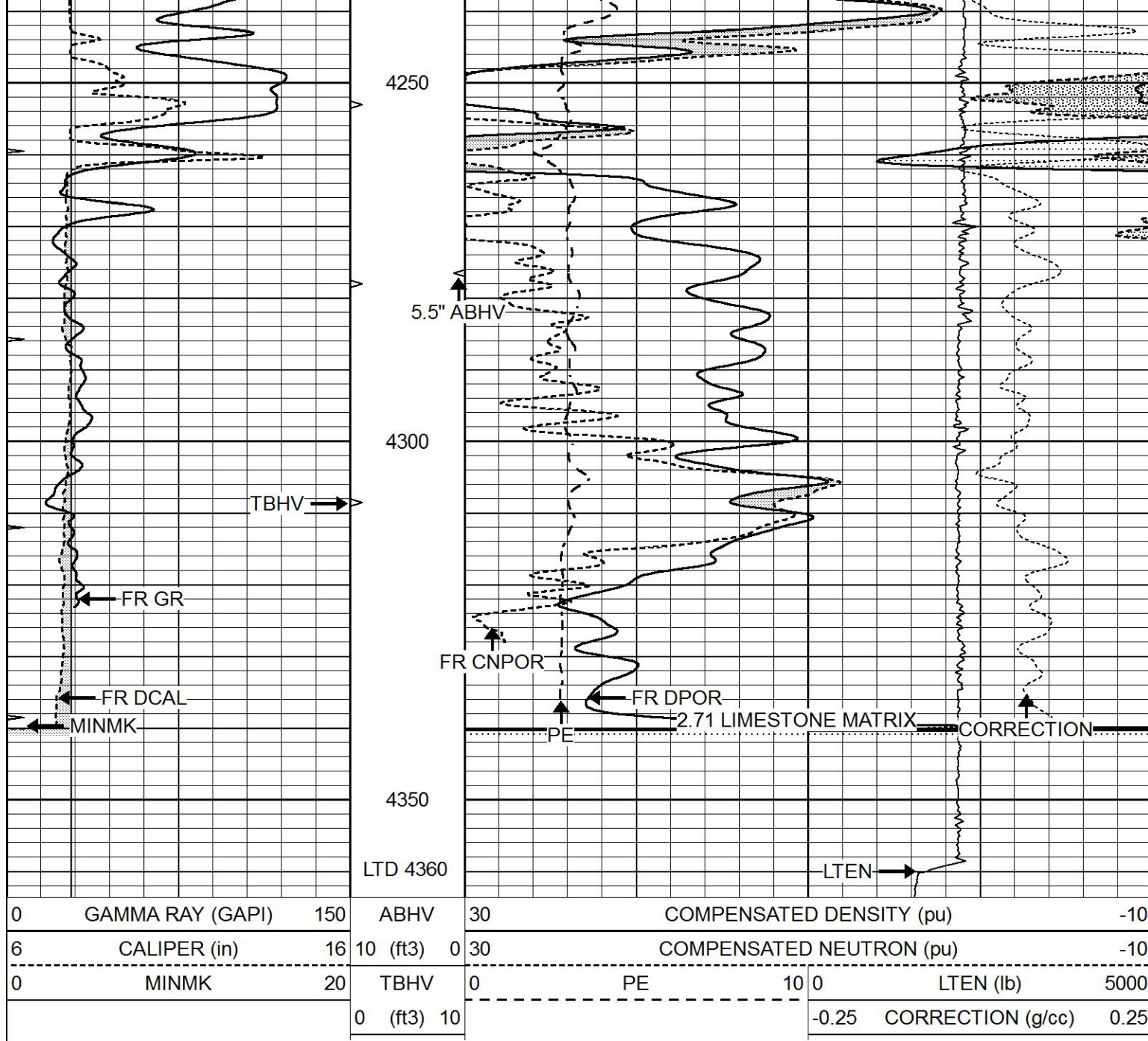
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3950

4000



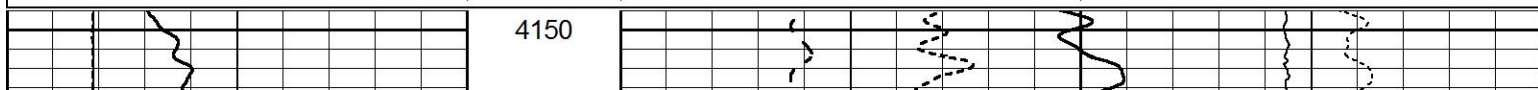


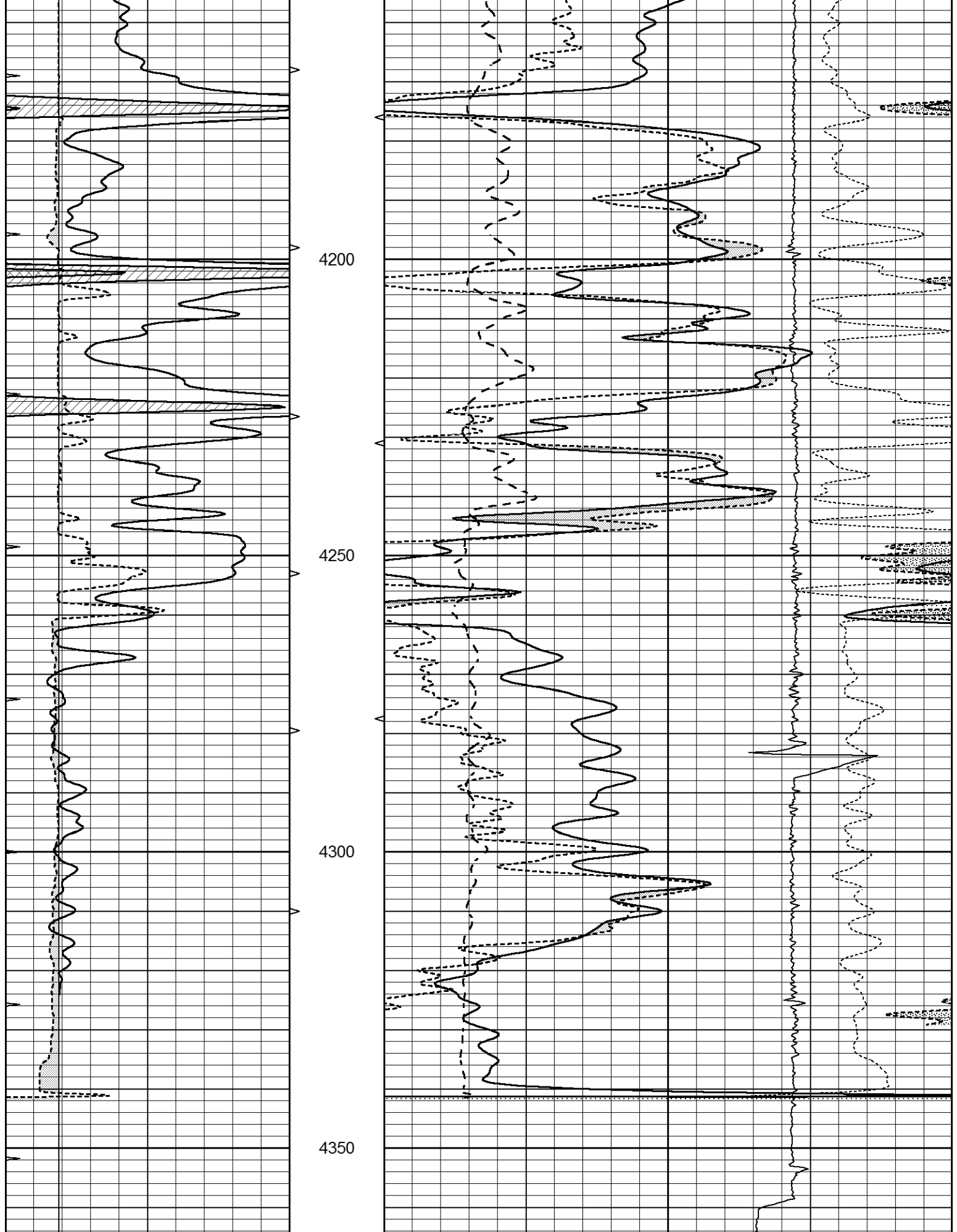


REPEAT SECTION

Database File 6719pe.db
 Dataset Pathname pass2.1R
 Presentation Format ldt_neu
 Dataset Creation Thu Nov 10 07:59:36 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 (ft3)	10	LTEN (lb)	5000
					-0.25	CORRECTION (g/cc) 0.25





0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINIMK	20	TRUV	0	DE	10.0
0					LTEN (lb)	5000

MINIMK	20	1 BHV	0	PE	10	0	LTEN (lb)	5000
	0	(ft3)	10			-0.25	CORRECTION (g/cc)	0.25

Calibration Report								
Database File	6719pe.db							
Dataset Pathname	pass3.1M							
Dataset Creation	Thu Nov 10 09:06:05 2022							

Dual Induction Calibration Report								
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Serial-Model:			PROBE8-DILG					
Surface Cal Performed:			Thu Nov 10 07:46:25 2022					
Downhole Cal Performed:			Mon Sep 10 14:28:38 2018					
After Survey Verification Performed:			Mon Sep 10 14:28:40 2018					

Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	4.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	620.000	-8.000
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 Fri Nov 04 15:19:59 2022			
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1153.2	7232.1	2536.8	2279.5			cps	
Window 2	1055.6	6225.5	2222.3	2030.5			cps	
Window 3	902.5	3849.3	1546.4	1462.0			cps	
Window 4	254.4	258.2	253.1	253.9			cps	
Long Space	0.0	5169.9	1166.7	974.9			cps	
Short Space	4.7	1383.0	950.5	792.1			cps	
Rho		1.7100	2.5900	0.0000			g/cc	
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 45.9	Rib Slope	: 1.031	Density/Spine Ratio			: 0.573	

Rib Angle	: 45.9	Rib Slope	: 1.051	Density/Spine Ratio	: 0.575
Spine Angle	: 75.9	Spine Slope	: 3.970	Spine Intercept	: -20.2
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:

6I

Tool Model:

G

CALIBRATION						
	Detector	Readings		Target		Normalization
	Short Space	1.00	cps	1.00	cps	1.0000
	Long Space	1.00	cps	1.00	cps	1.0000

PRE-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		
3)	Short Space		cps			
	Long Space		cps	pu		

POST-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		pu

3)	Short Space Long Space	cps cps	pu	pu
Gamma Ray Calibration Report				
	Serial Number:	GR6		
	Tool Model:	OPEN		
	Performed:	Tue Nov 08 13:43:57 2022		
	Calibrator Value:	150.0	GAPI	
	Background Reading:	0.0	cps	
	Calibrator Reading:	276.0	cps	
	Sensitivity:	0.8500	GAPI/cps	