



COMPENSATED DENSITY / NEUTRON PE LOG

Company KNIGHTON OIL COMPANY, INC.

Well KACHELMAN #5

Field ALBANO WEST

County STAFFORD State KANSAS

Location: API # : 15-185-24141-0000
518' FSL & 330' FEL
N/2 - SE - SE - SE

Other Services
DIL/MEL
SONIC

SEC 11 TWP 25S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1961
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1972
D.F. 1970
G.L. 1961

Date 5/12/23

Run Number ONE

Depth Driller 4360

Depth Logger 4361

Bottom Logged Interval 4337

Top Log Interval 3300

Casing Driller 8 5/8" @ 346'

Casing Logger 346

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.1/51

pH / Fluid Loss 10.0/8.0

Source of Sample FLOWLINE

Rm @ Meas. Temp .750 @ 82F

Rmf @ Meas. Temp .563 @ 82F

Rmc @ Meas. Temp .900 @ 82F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .517 @ 119F

Time Circulation Stopped 3 HOURS

Time Logger on Bottom 6.45 P.M.

Maximum Recorded Temperature 119F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By BLAKE MILLER

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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.

15-185-24141-0000

Comments

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

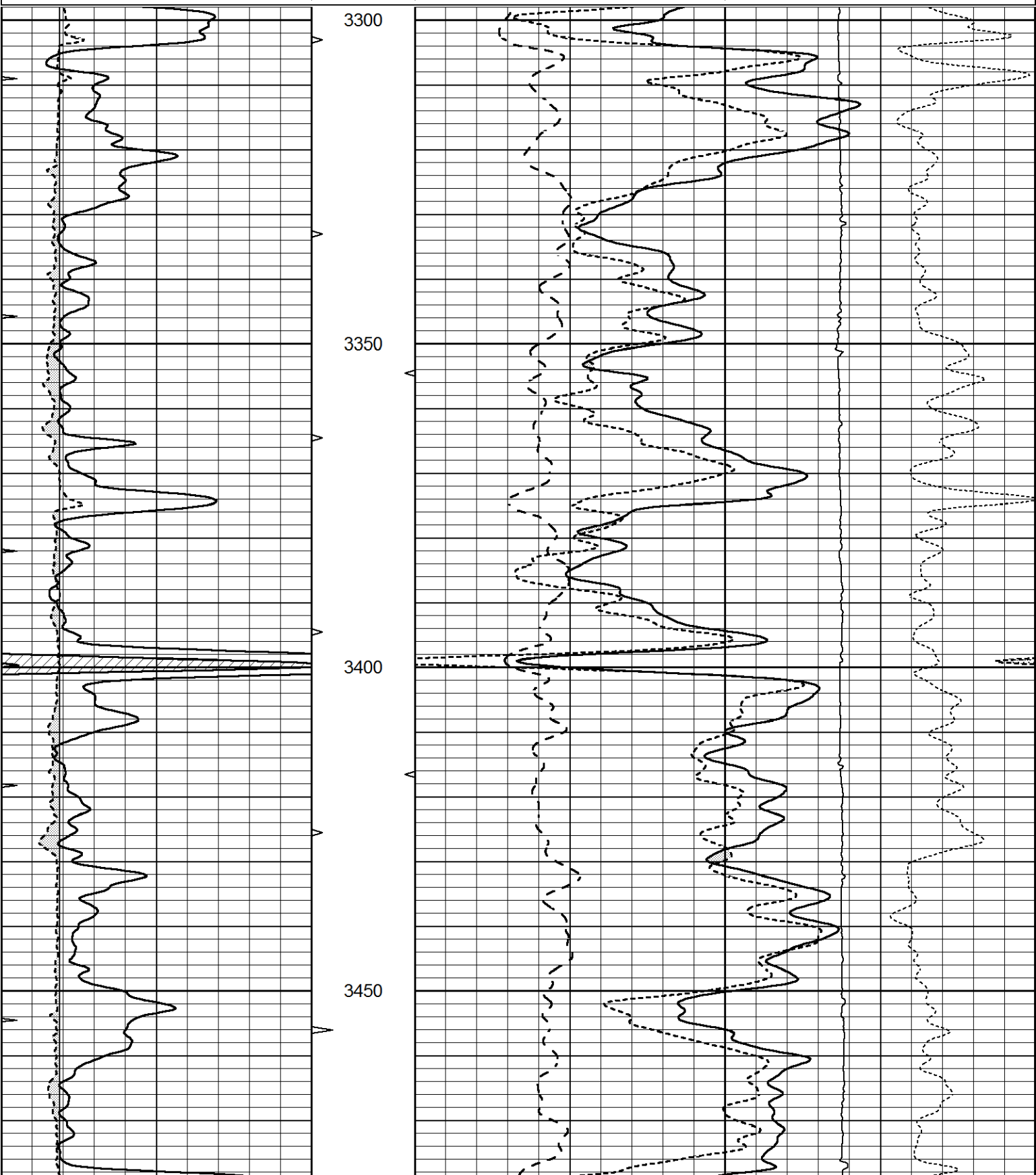
ST. JOHN, KS., S. ON HWY 281 TO "SW 50TH ST.", 4W. TO "SW 40TH AVE.", 1/4 N., W. INTO

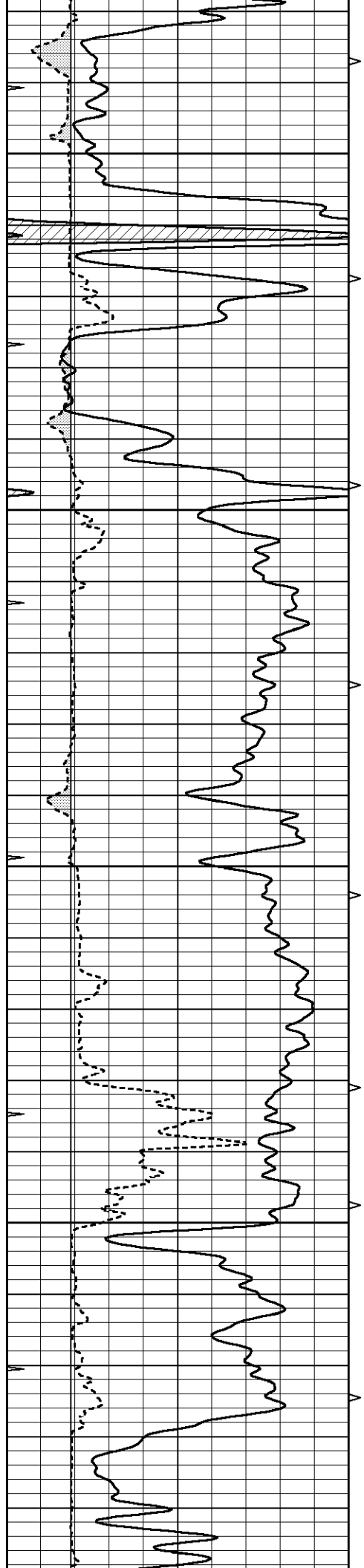


MAIN SECTION

Database File	7883pe.db
Dataset Pathname	pass3.1M
Presentation Format	_ldt_neu
Dataset Creation	Fri May 12 20:26:01 2023
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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10
			0 (ft3)	10	-0.25	CORRECTION (g/cc)
					0	LTEN (lb)
						5000



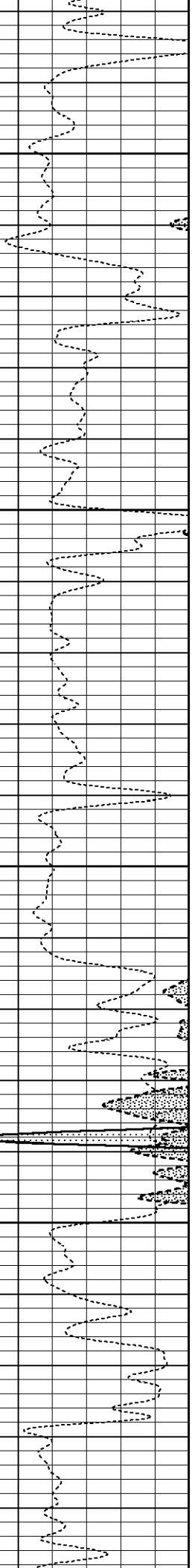
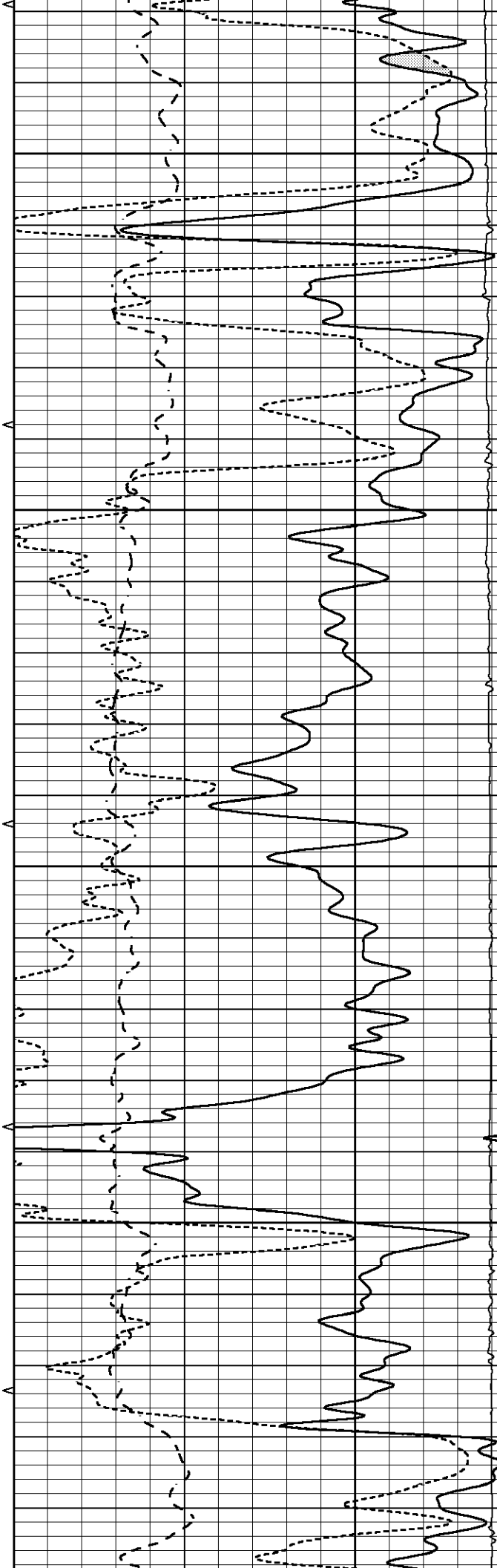


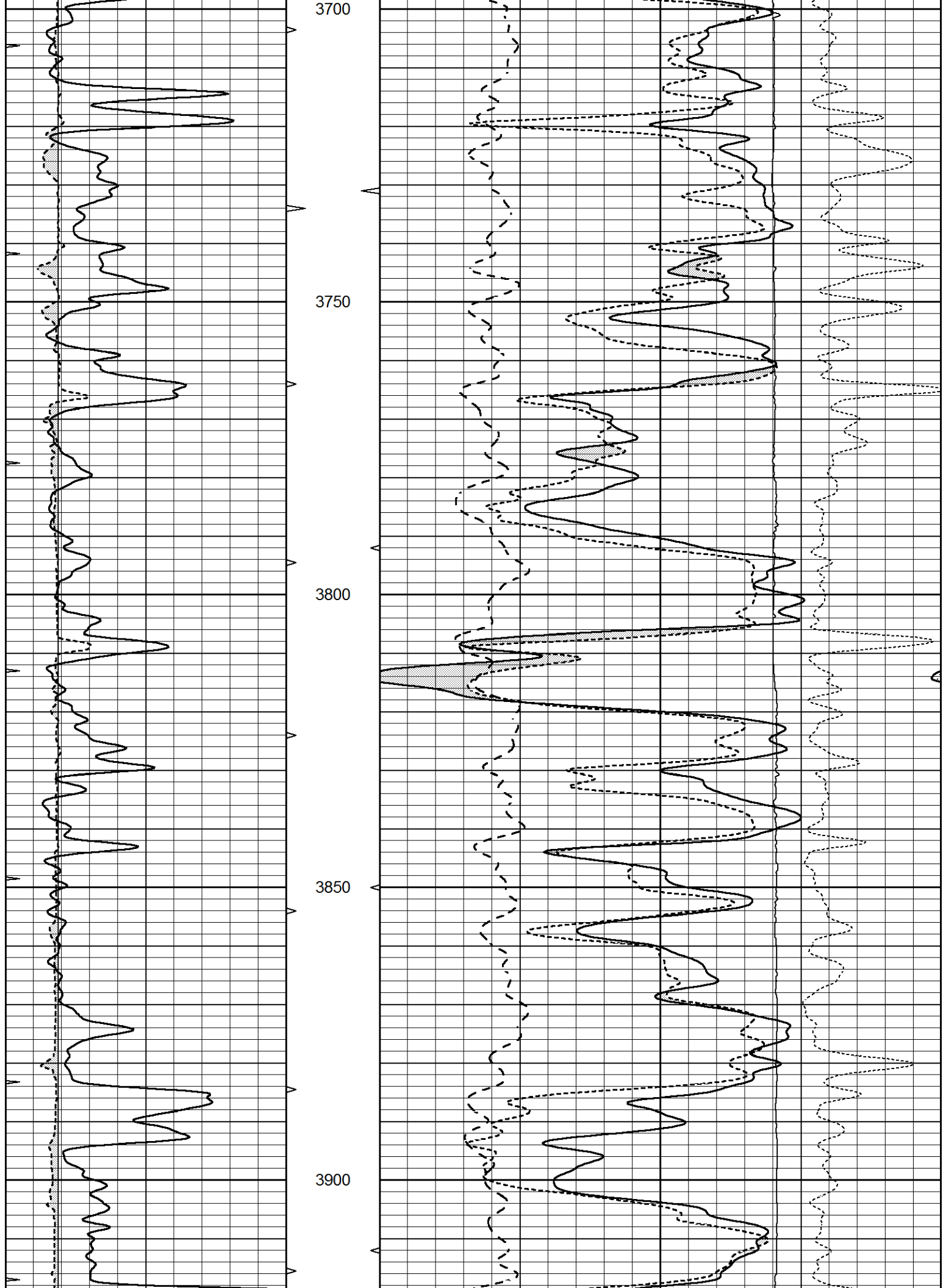
3500

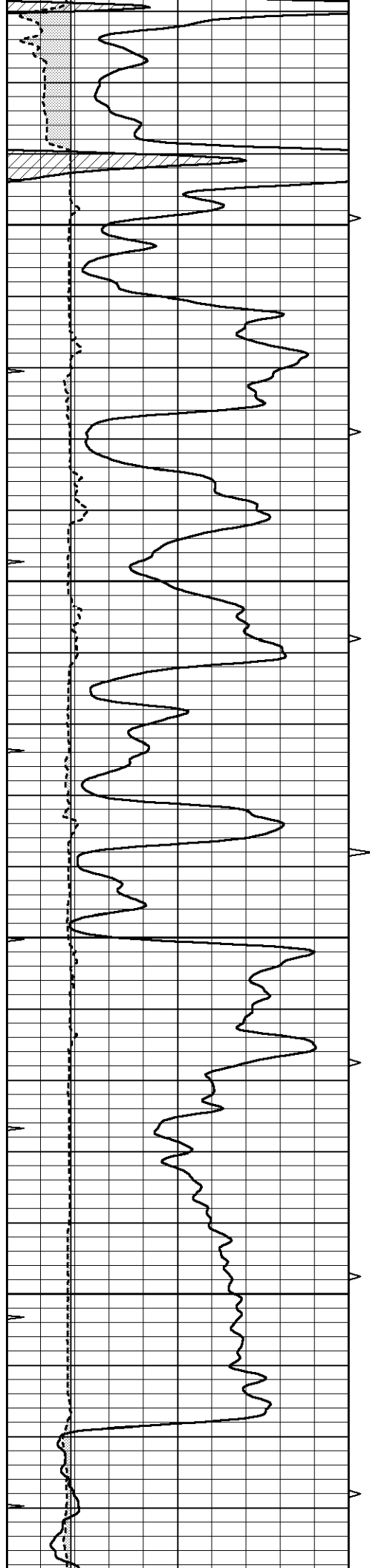
3550

3600

3650





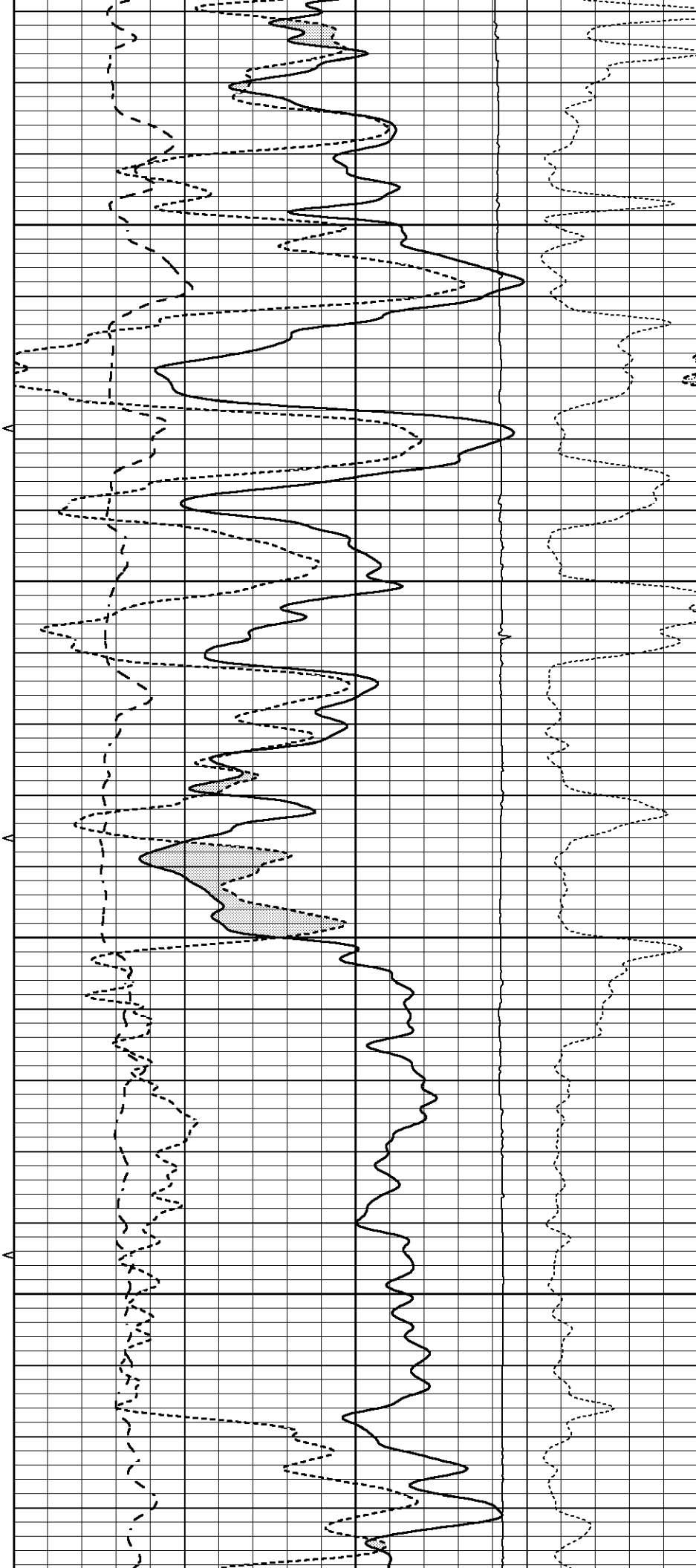


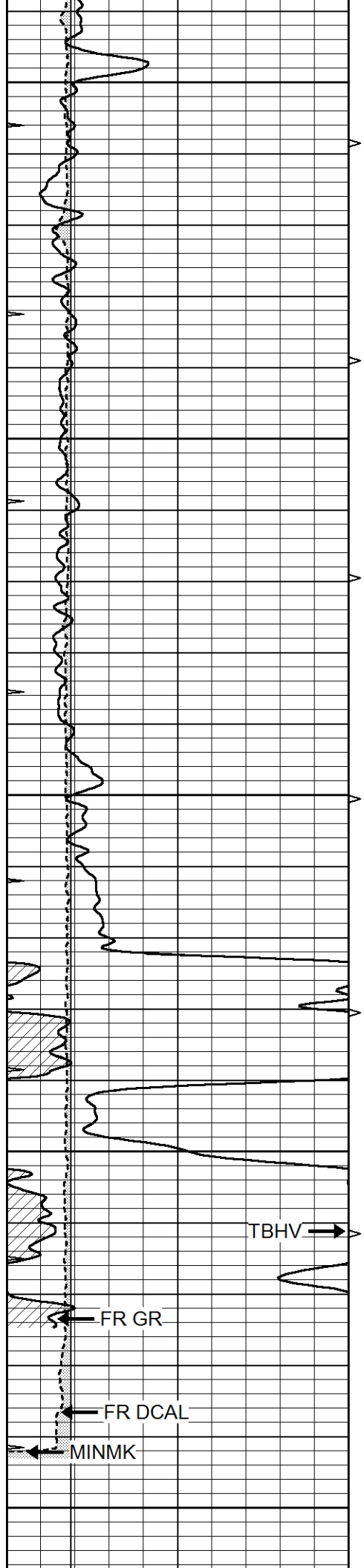
3950

4000

4050

4100





4150

4200

4250

4300

4350

TBHV →

← FR GR

← FR DCAL

← MINMK

5.5" ABHV



← FR CNPOR

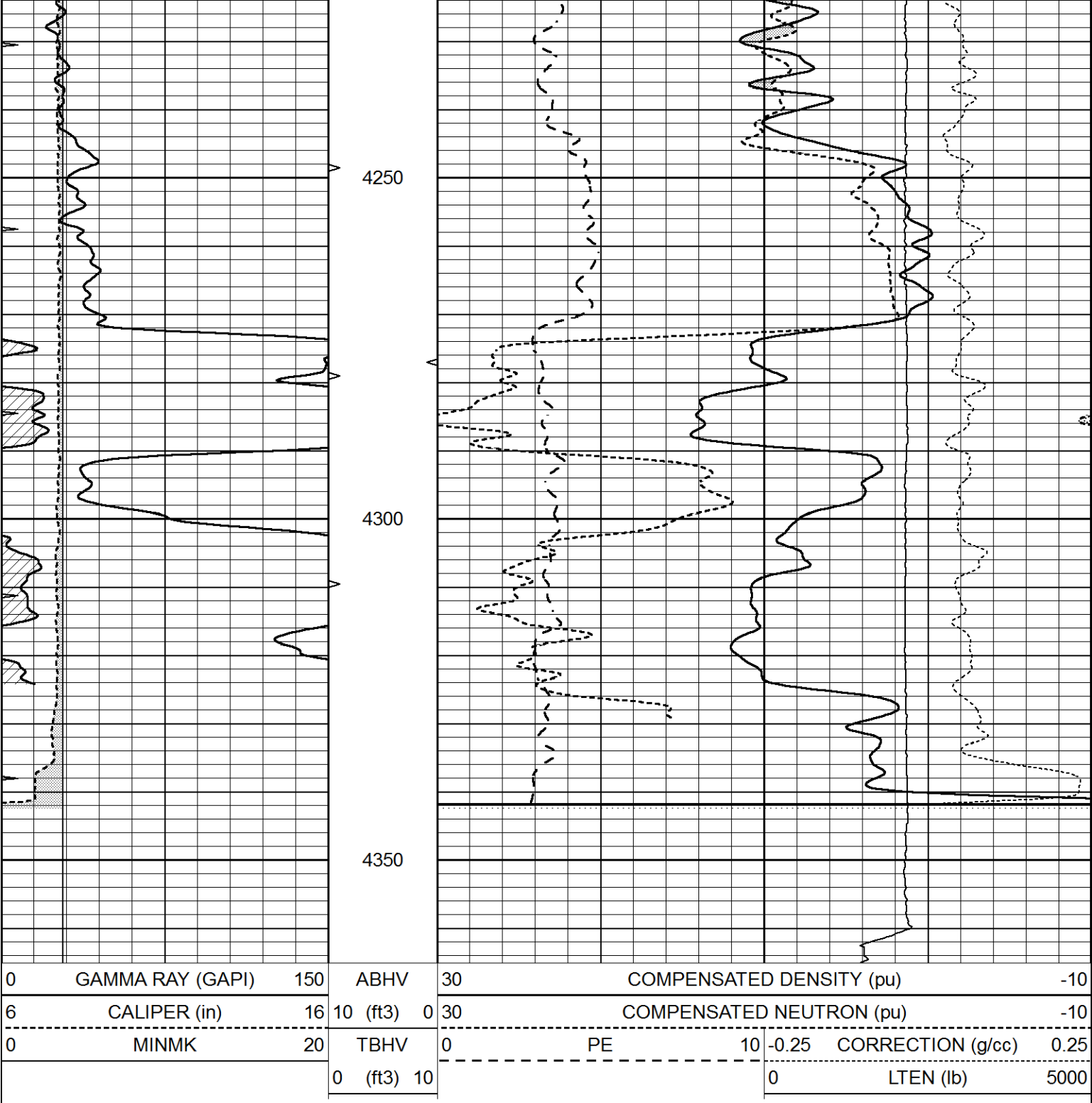
↑ PE

2.71 LIMESTONE MATRIX

↑ FR DPOR

↑ CORRECTION

Database File	7883pe.db
Dataset Pathname	pass2.1R
Presentation Format	_ldt_neu
Dataset Creation	Fri May 12 20:22:17 2023
Charted by	Depth in Feet scaled 1:240



Calibration Report						
Database File		7883pe.db				
Dataset Pathname		pass3.1M				
Dataset Creation		Fri May 12 20:26:01 2023				
Dual Induction Calibration Report						
Serial-Model:		PROBE8-DILG				
Surface Cal Performed:		Tue May 09 08:05:37 2023				
Downhole Cal Performed:		Mon Jul 28 11:08:27 2008				
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	620.000	12.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	600.000	-2.000
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			
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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:		Tue May 09 09:11:42 2023			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.3000	GAPI/cps		