

COMPENSATED
DENSITY/NEUTRON
PE LOG

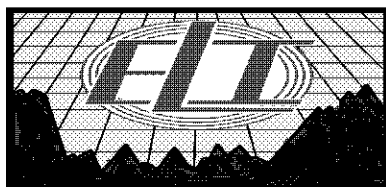
Company	DIXON OPERATING COMPANY, LLC.	
Well	THOMAS FORSYTH #18	
Field	MEDICINE LODGE NORTH	
County	BARBER	State KANSAS
Location:	API # : 15-007-24343-0000	
SEC 29 TWP 32S RGE 12W		Other Services DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation 1603
Log Measured From	KELLY BUSHING 10' A.G.L	K.B. 1613 D.F. 1611 G.L. 1603
Drilling Measured From	KELLY BUSHING	
Date	1/16/19	
Run Number	ONE	
Depth Driller	4820	
Depth Logger	4824	
Bottom Logged Interval	4800	
Top Log Interval	3400	
Casing Driller	8 5/8" @ 308	
Casing Logger	306	
Bit Size	7 7/8	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM
Density / Viscosity	9.4/54	
pH / Fluid Loss	10.0/8.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.75 @ 65F	
Rmf @ Meas. Temp	.56 @ 65F	
Rmc @ Meas. Temp	.90 @ 65F	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.39 @ 123F	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	////	
Maximum Recorded Temperature	123F	
Equipment Number	3802	
Location	HAYS, KANSAS	
Recorded By	JASON CAPPELLUCCI	
Witnessed By	BRUCE REED	

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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

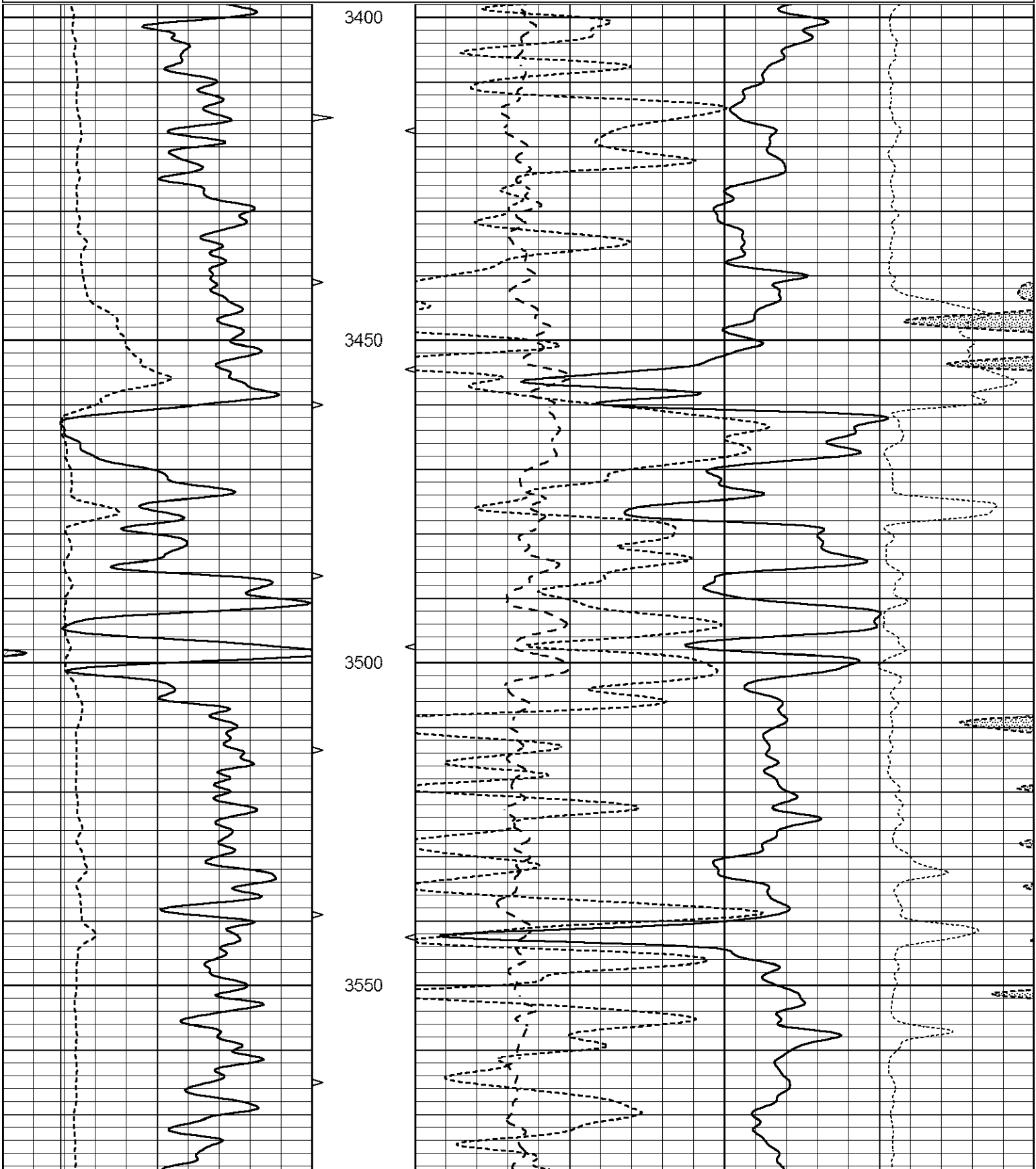
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS. - WEST ON HWY 160 TO GYP HILL RD. - SOUTH TO RED ROCK RD.
1/2 EAST - SOUTH THROUGH GATE - STAY SOUTH AND TO THE LEFT
JUST BEFORE THE TANK BATTERY GO WEST INTO

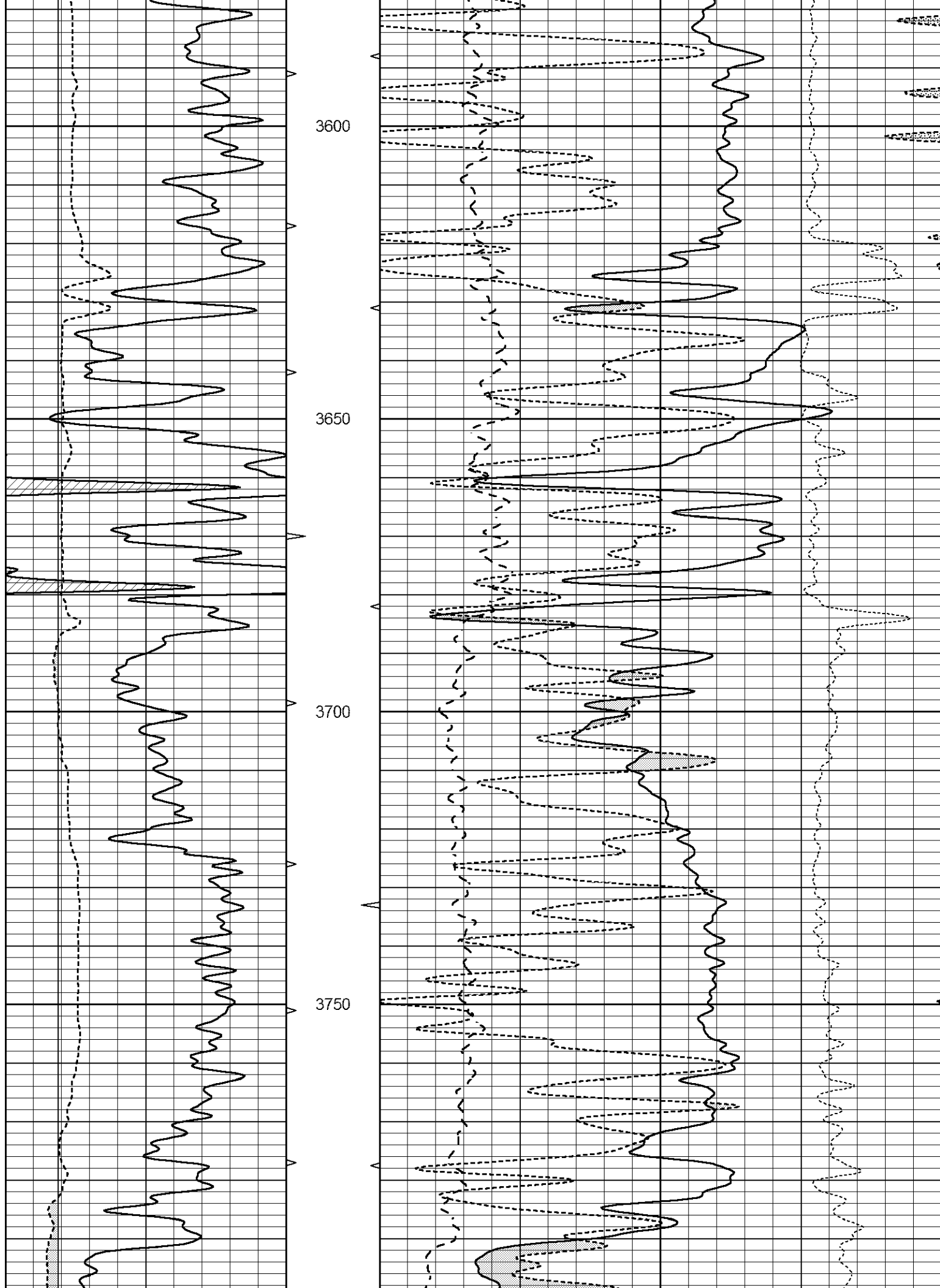


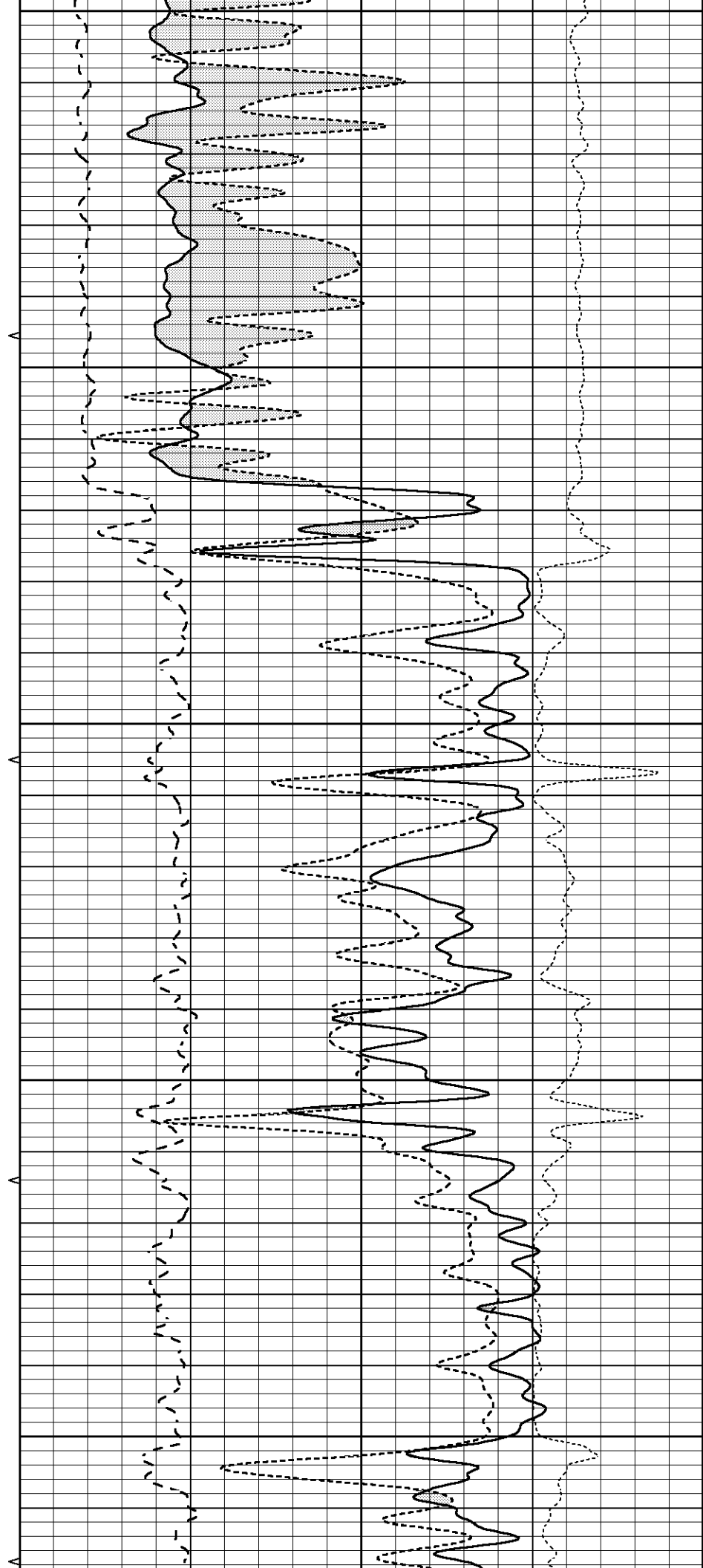
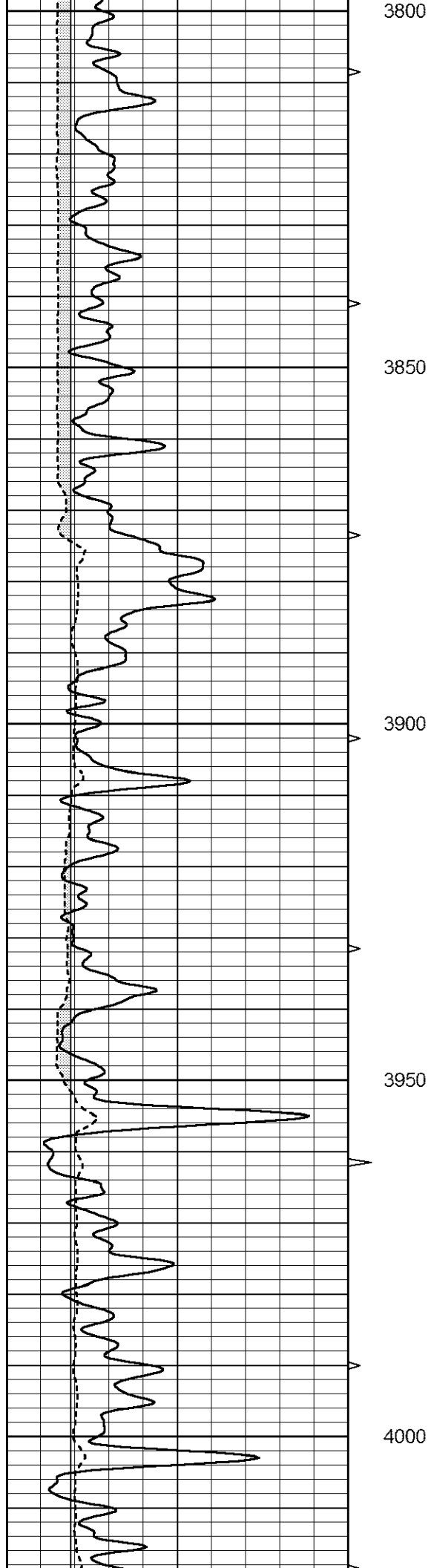
MAIN SECTION

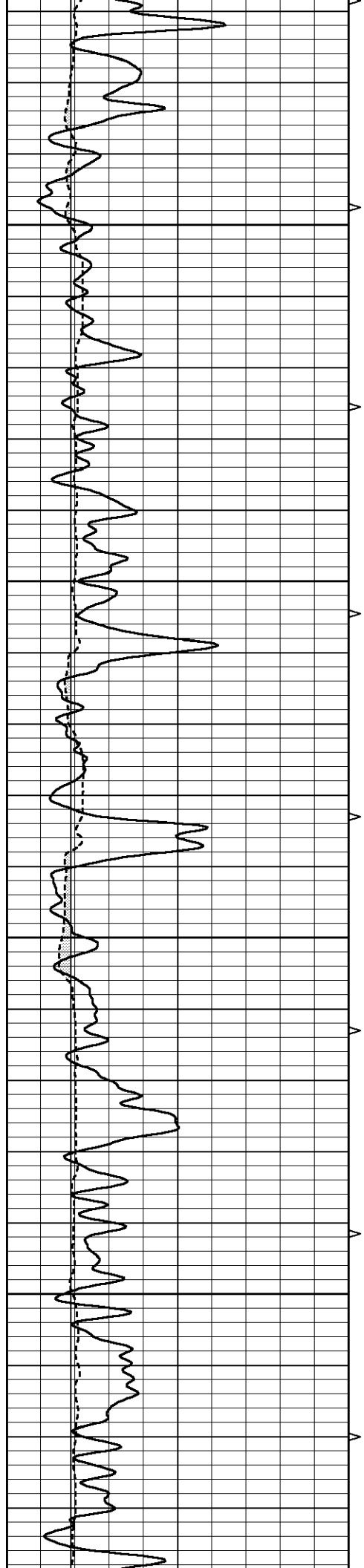
Database File	3436pe8.db
Dataset Pathname	pass3.1
Presentation Format	_ldt_neu
Dataset Creation	Wed Jan 16 14:56:12 2019
Charted by	Depth in Feet scaled 1:240

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







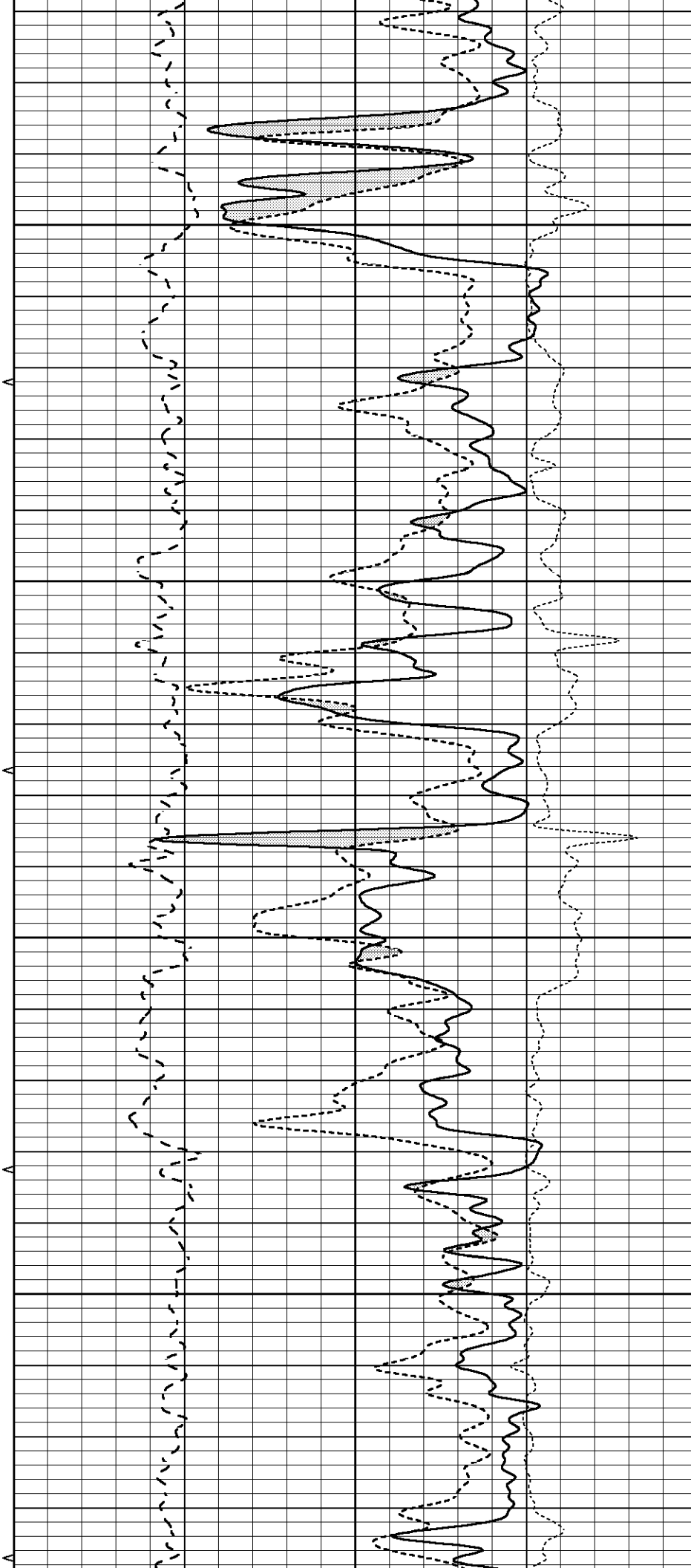


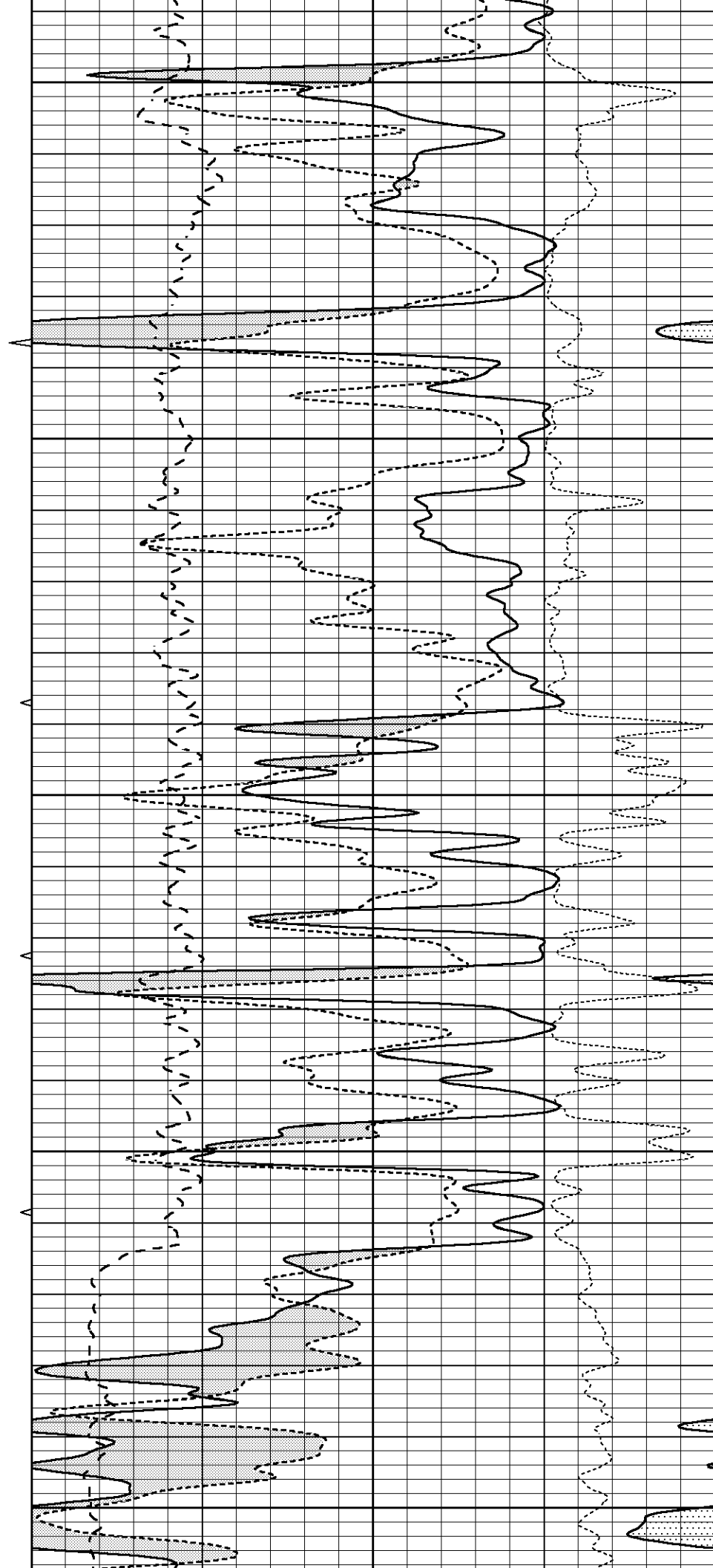
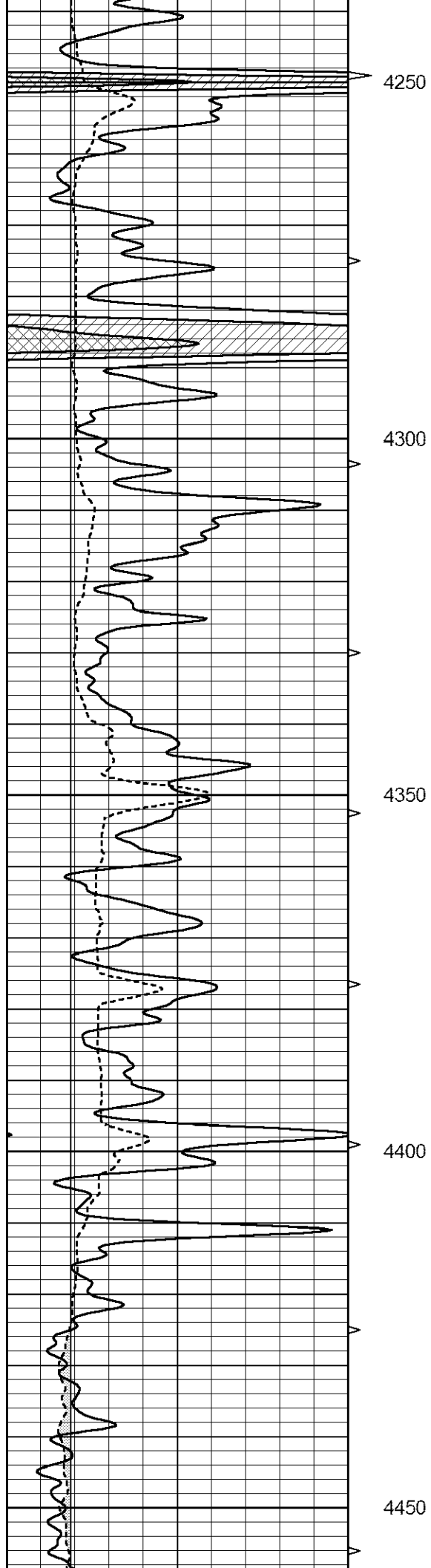
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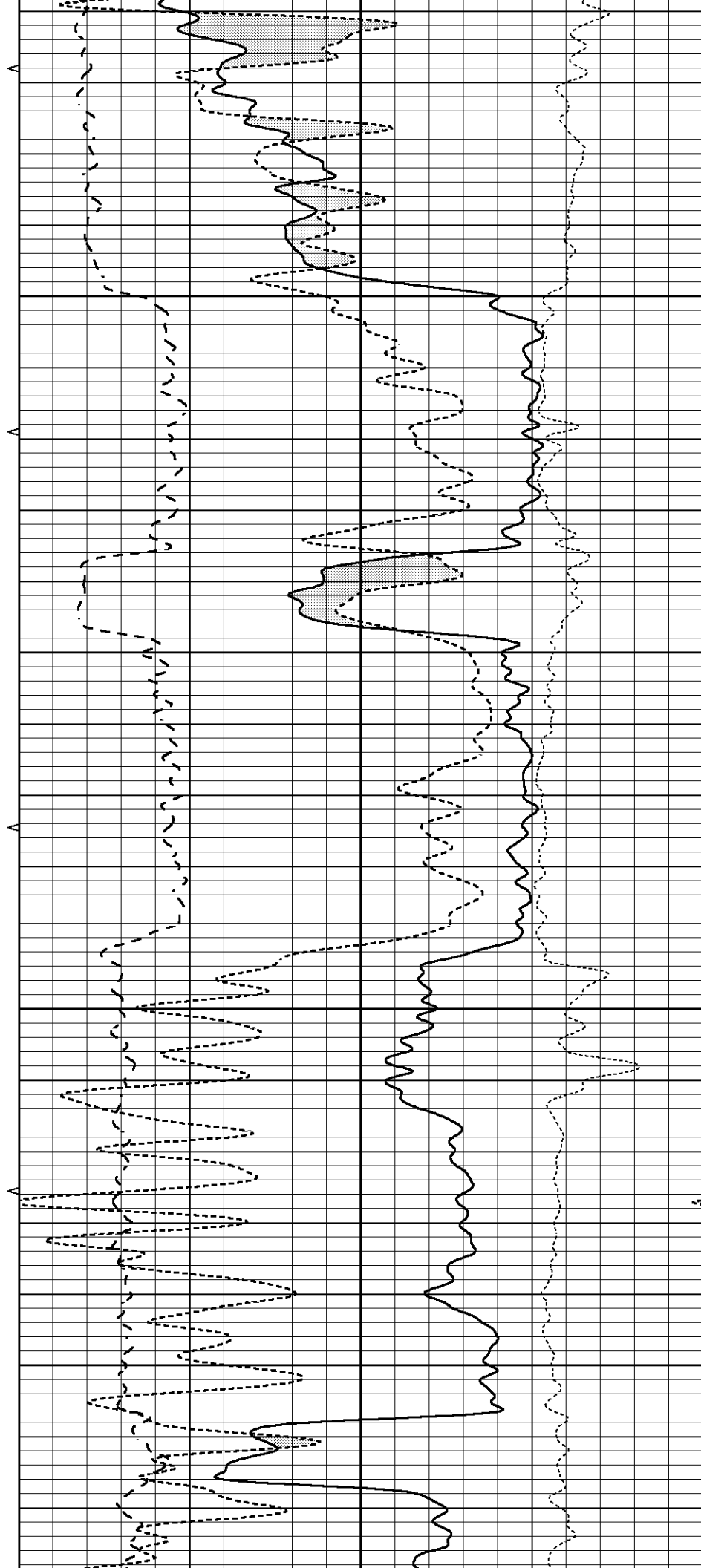
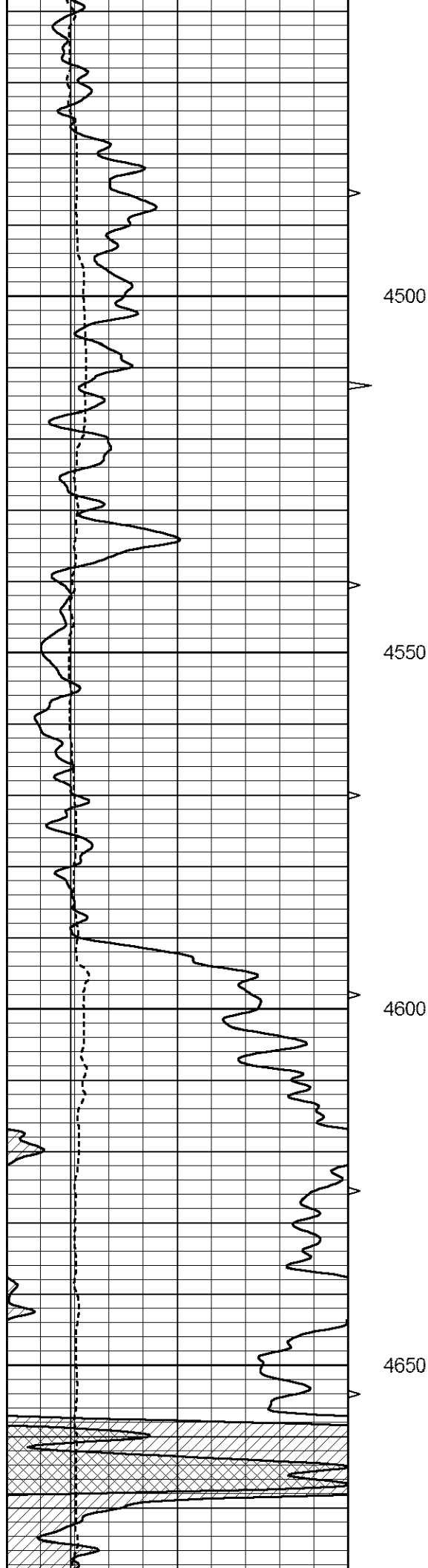
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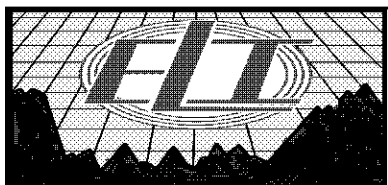
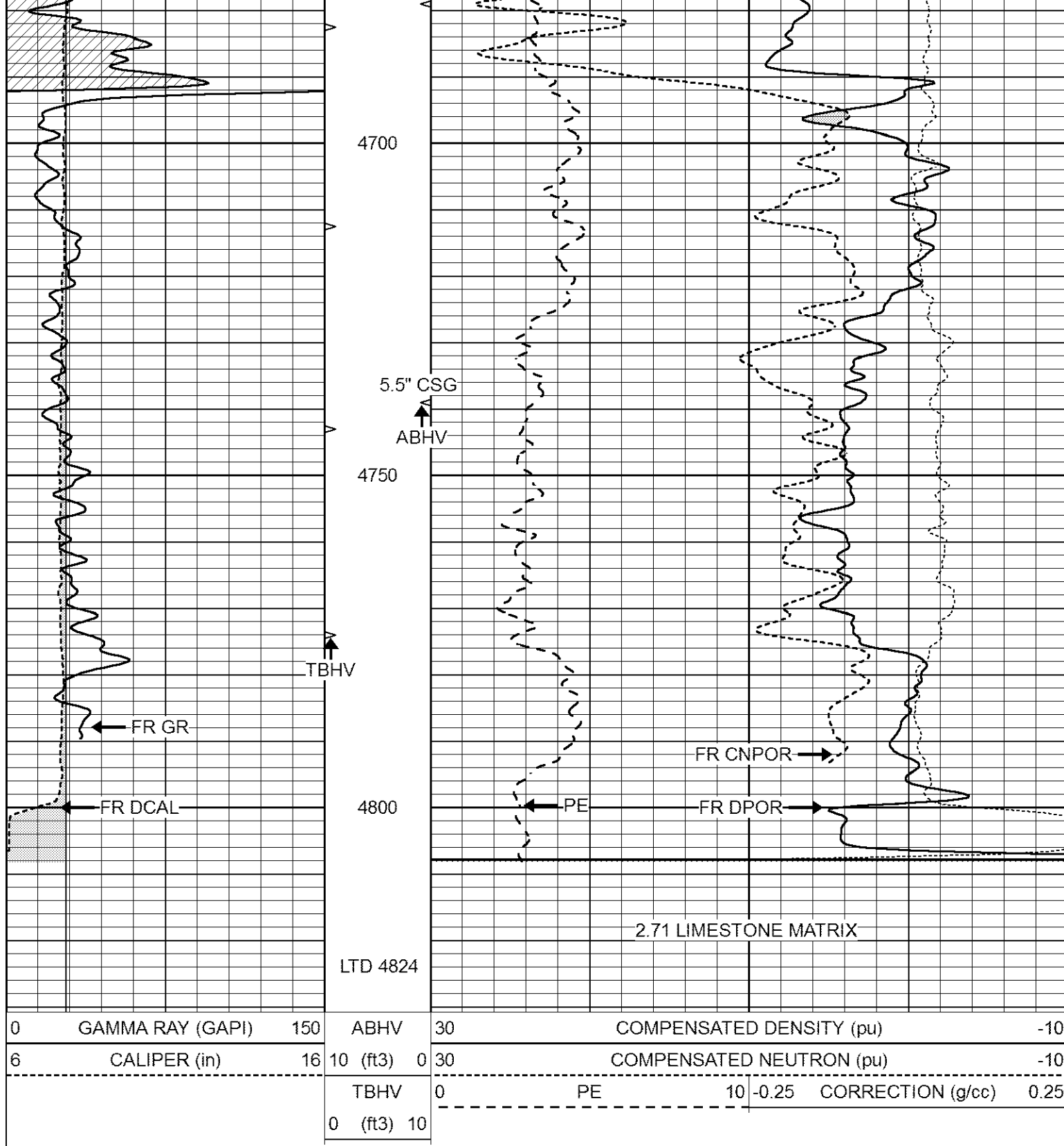
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4200







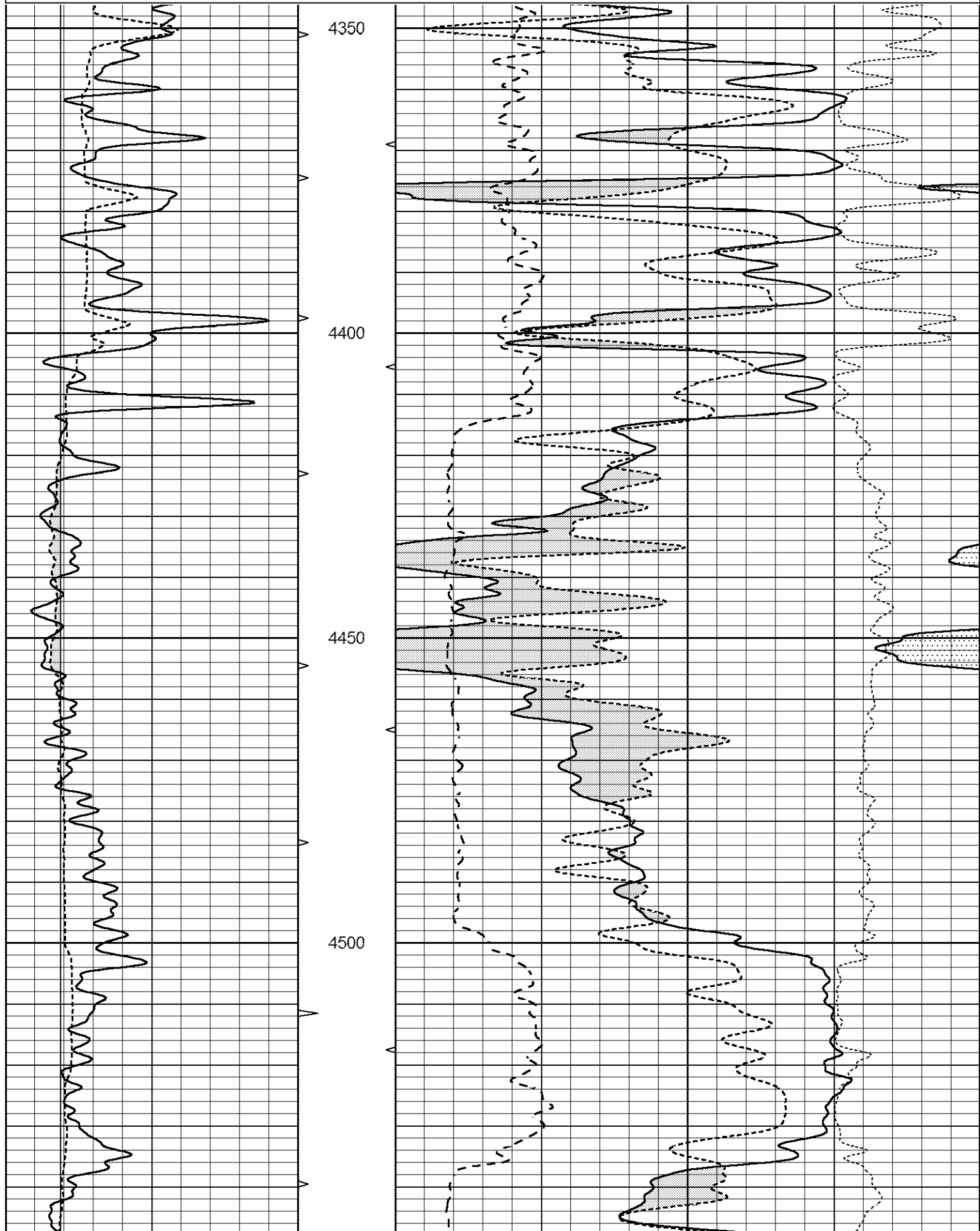


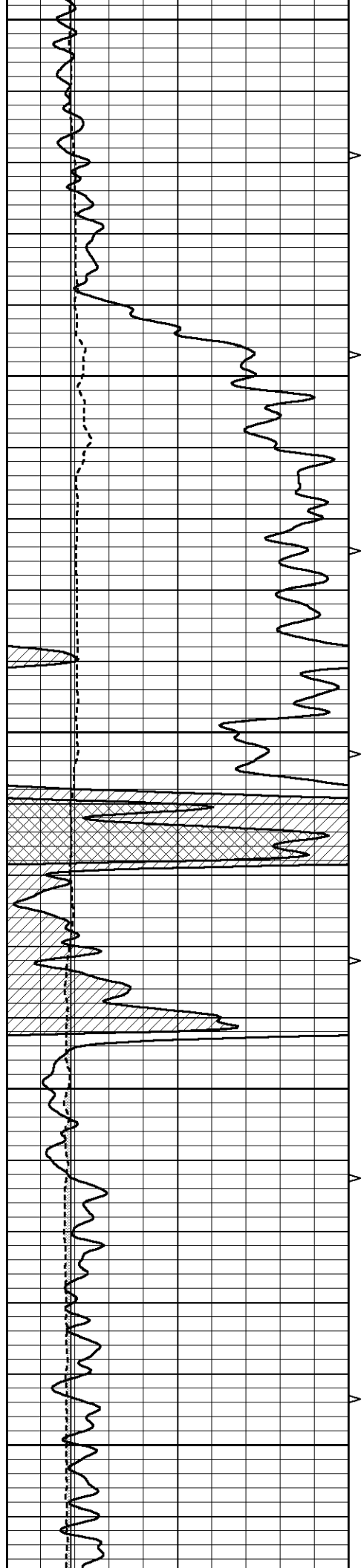
REPEAT SECTION

Database File 3436pe8.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Wed Jan 16 14:35:21 2019
 Charted by Depth in Feet scaled 1:240



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





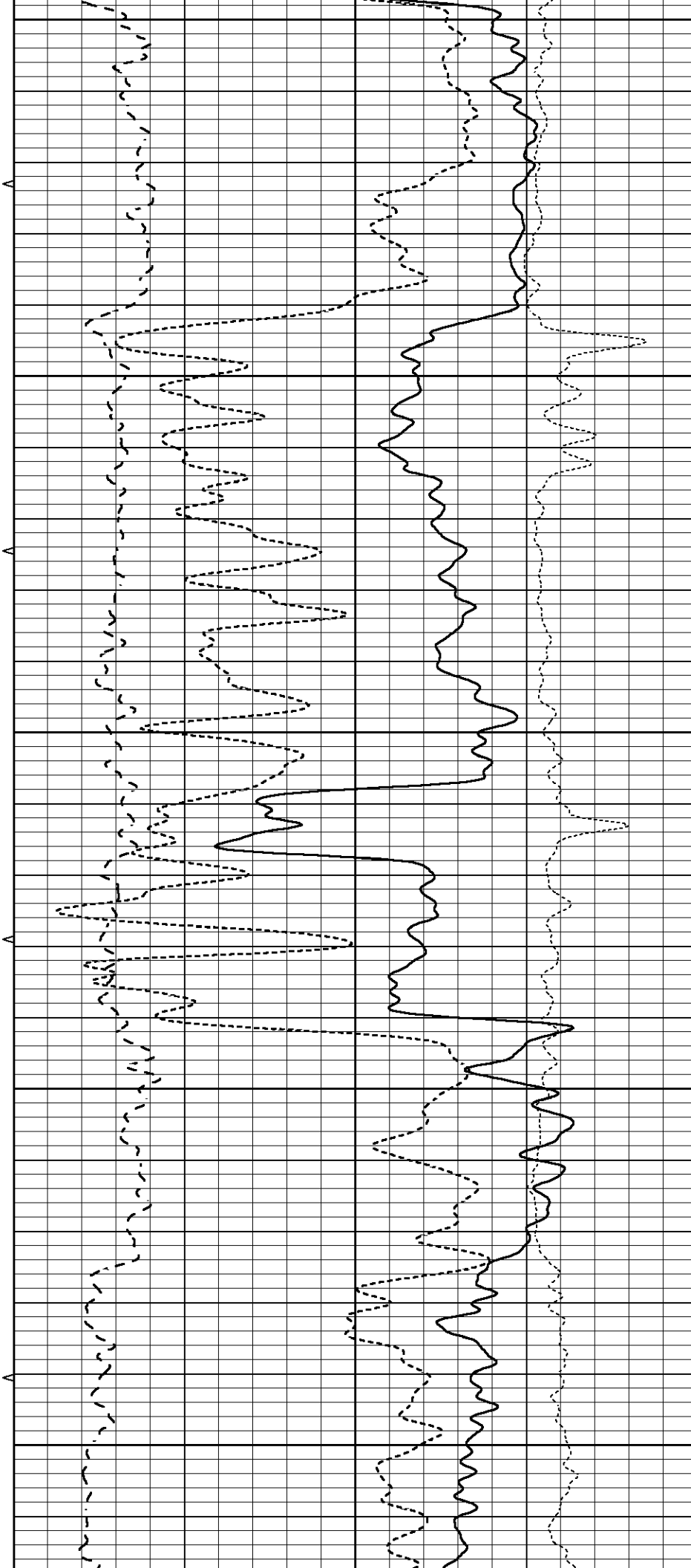
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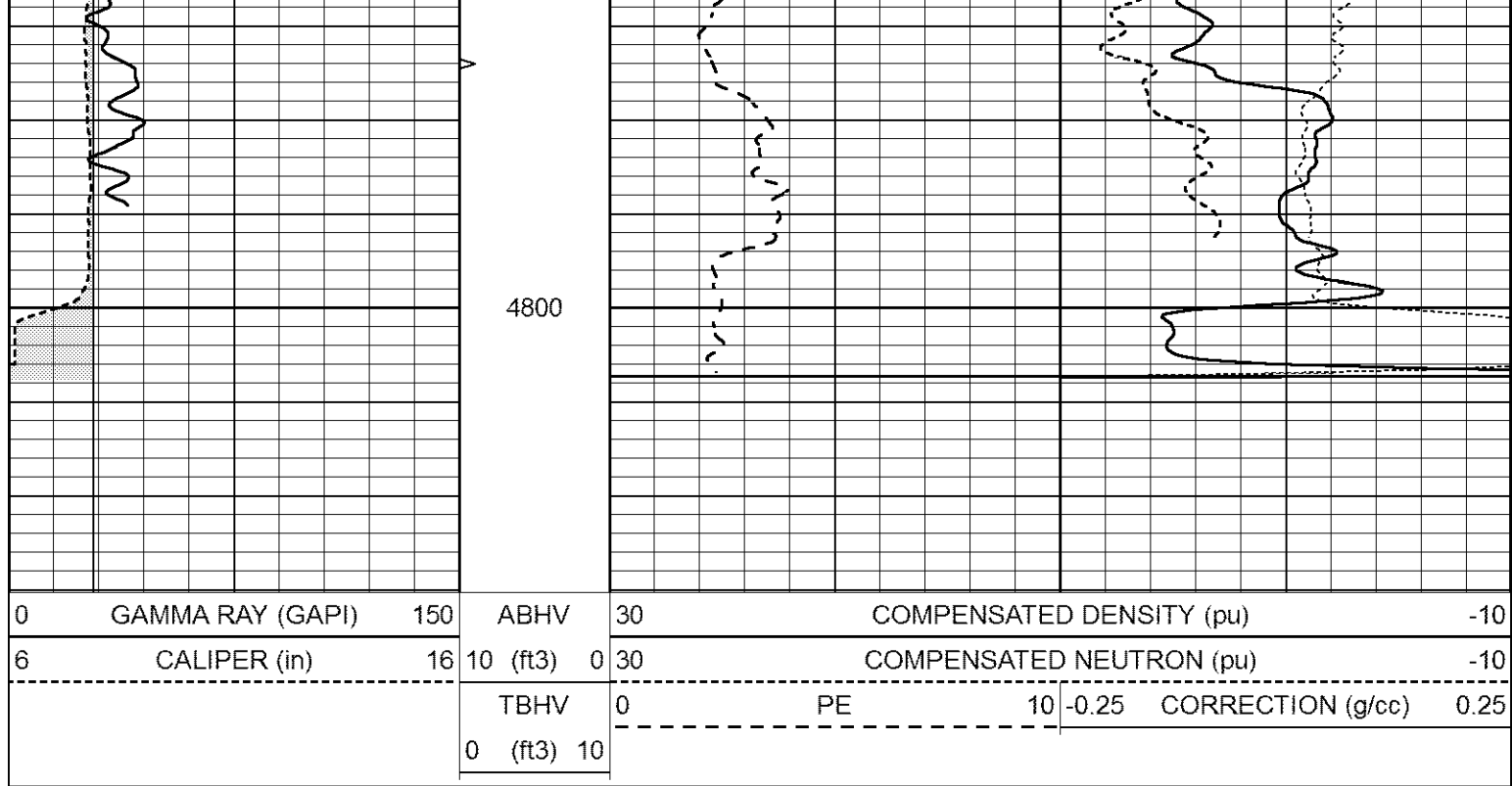
4600

4650

4700

4750





Calibration Report

Database File 3436pe8.db
Dataset Pathname pass2.1
Dataset Creation Wed Jan 16 14:35:21 2019

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Mon May 22 14:23:32 2017
Downhole Cal Performed: Thu Mar 12 09:29:20 2015
After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

Readings			Targets		Results	
Zero	Cal		Zero	Cal	m'	b'

Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	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		
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:			Wed Dec 05 01:26:33 2018					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.4300		GAPI/cps			