



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	DOWNING NELSON OIL COMPANY		
Well	KRAMER UNIT #2-24		
Field	WILDCAT		
County	CHEYENNE	State	KANSAS
Location:	API # : 15-023-21404-00-00		Other Services
	50' FSL & 330' FWL		DIL
	E/2 - SW - SW - SW		MEL/SON
	SEC 24	TWP 5S	RGE 37W
Permanent Datum	GROUND LEVEL	Elevation	3311
Log Measured From	KELLY BUSHING 13' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Elevation	K.B. 3324 D.F. 3322 G.L. 3311		
Date	7/30/14		
Run Number	ONE		
Depth Driller	4950		
Depth Logger	4954		
Bottom Logged Interval	4930		
Top Log Interval	3500		
Casing Driller	8 5/8 @ 476'		
Casing Logger	476'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.6/58	CHLORIDES 500 PPM	
pH / Fluid Loss	11.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.40 @ 95F		
Rmf @ Meas. Temp	1.05 @ 95F		
Rmc @ Meas. Temp	1.68 @ 95F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	1.06 @ 125F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	125F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	RON NELSON		

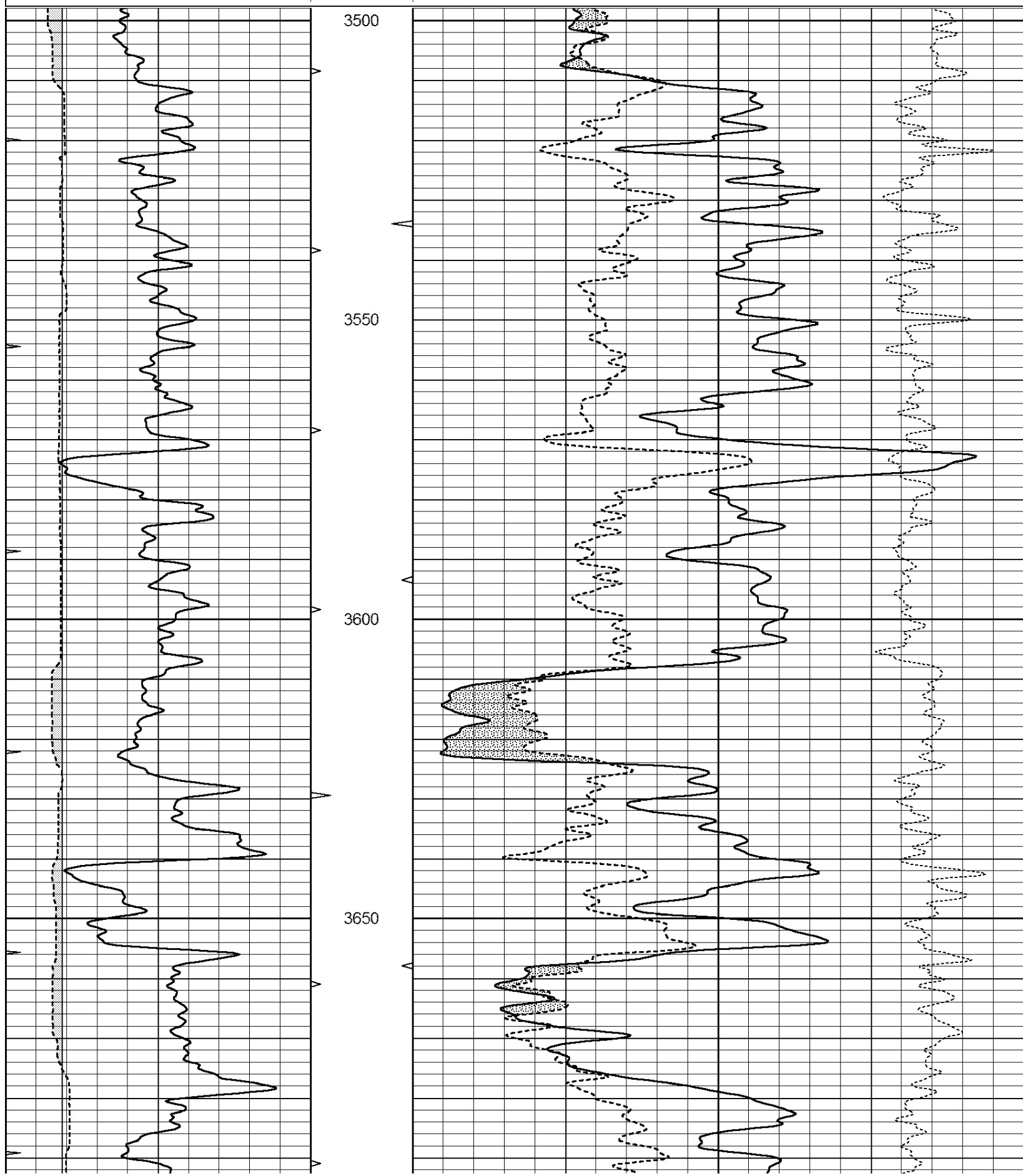
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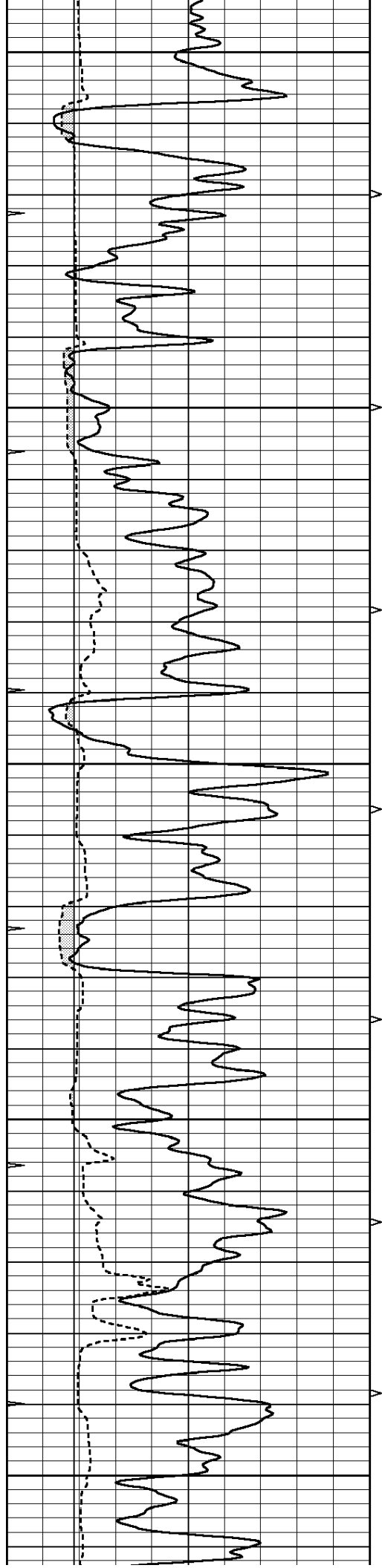
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

NABORS COMPLETION & PRODUCTION SERVICES CO.
785 (628 - 6395)
THANK YOU FOR YOUR BUSINESS
DIRECTIONS : BREWSTER, KS. - 17 NORTH TO THE CURVE - 3 WEST - 1 1/2 NORTH - EAST INTO

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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





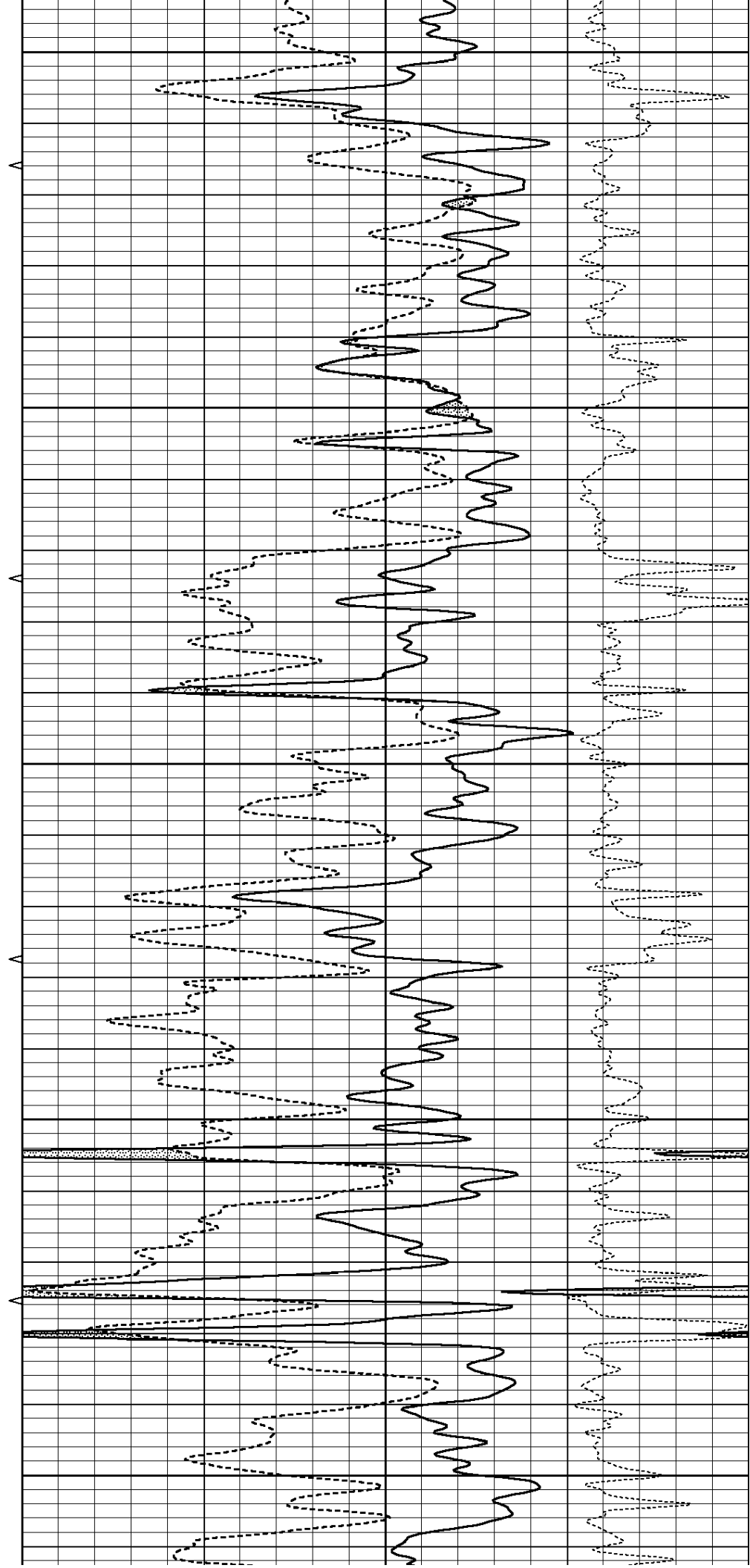
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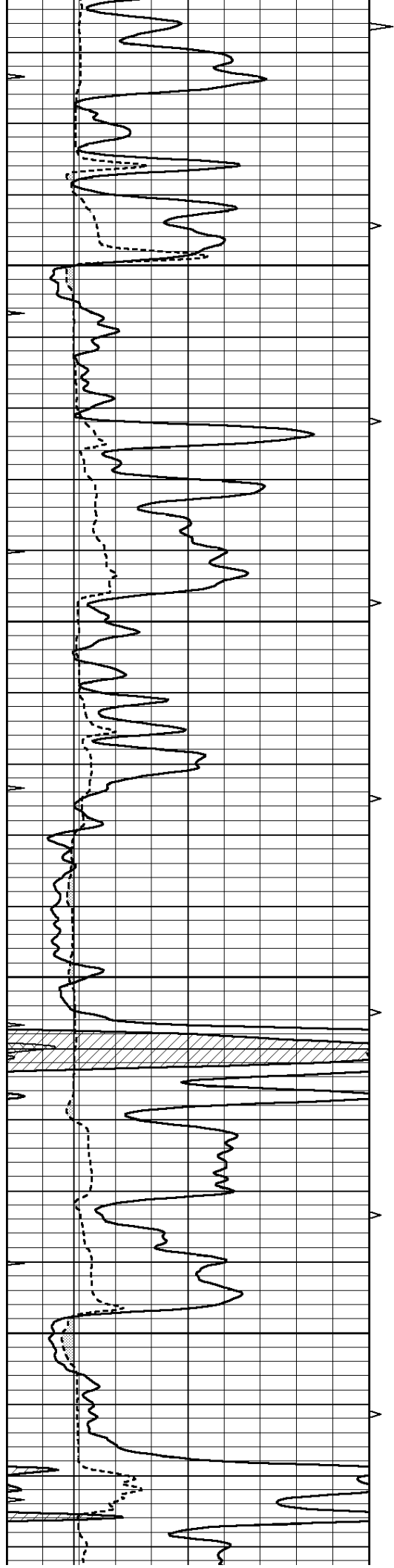
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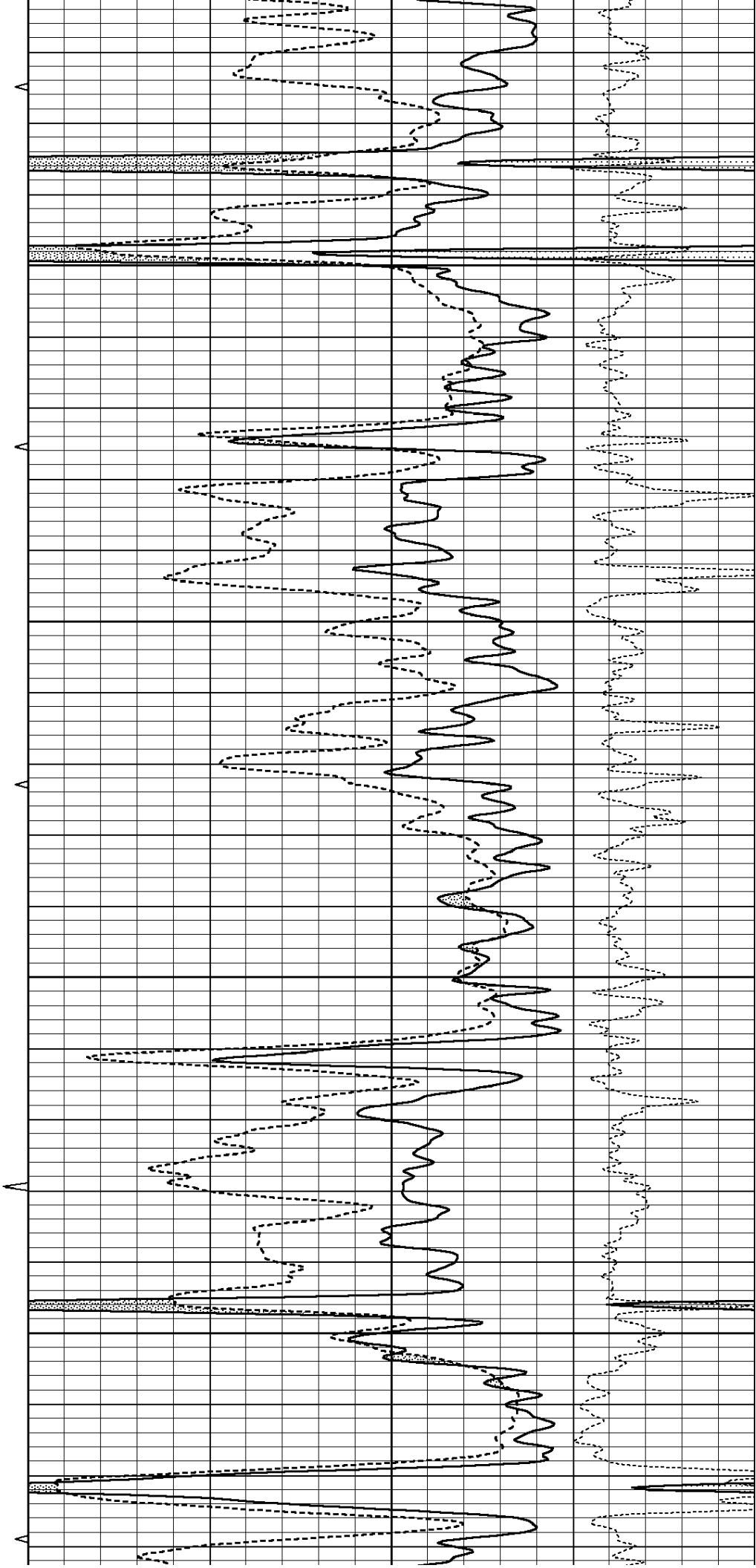


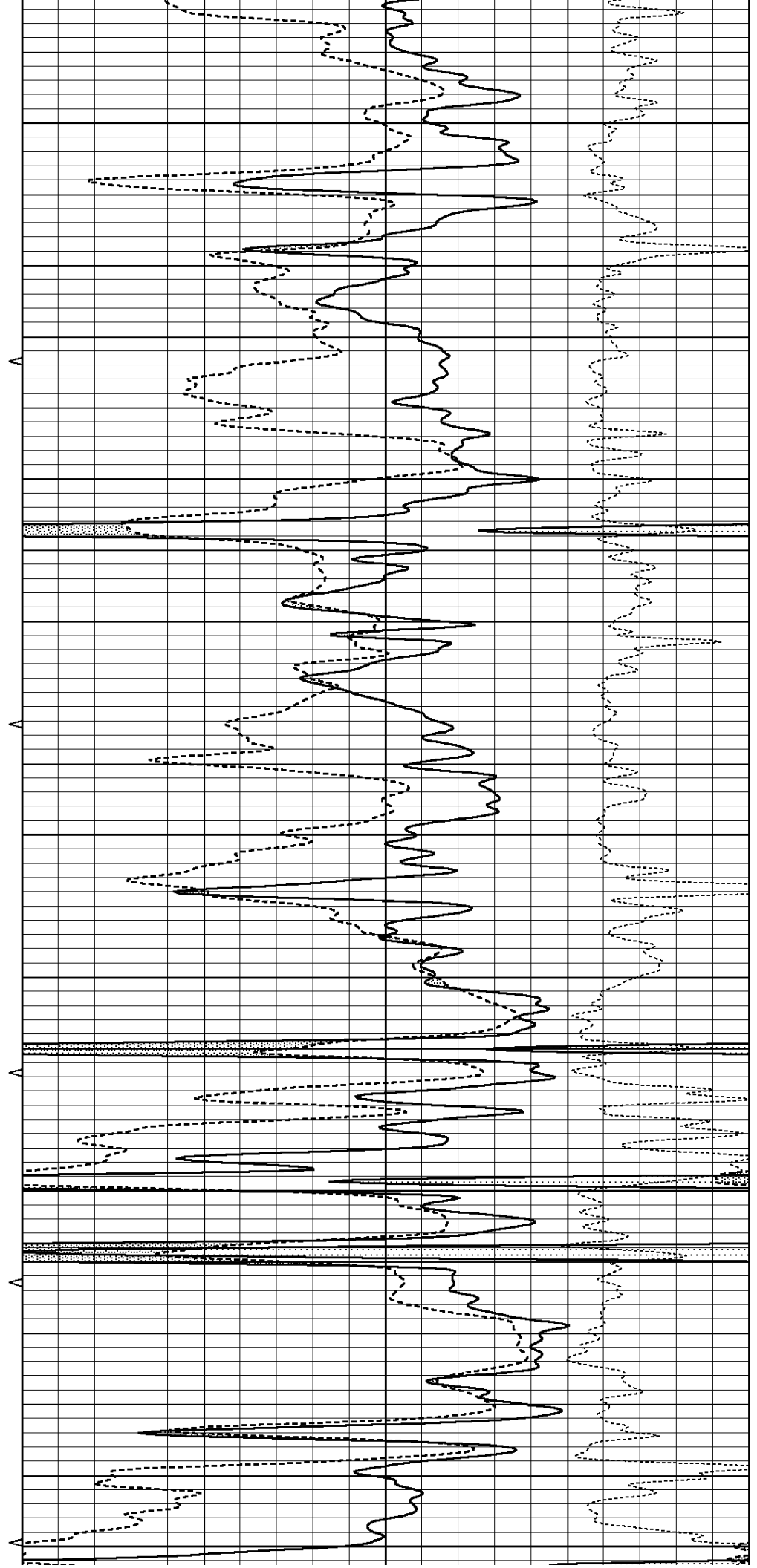
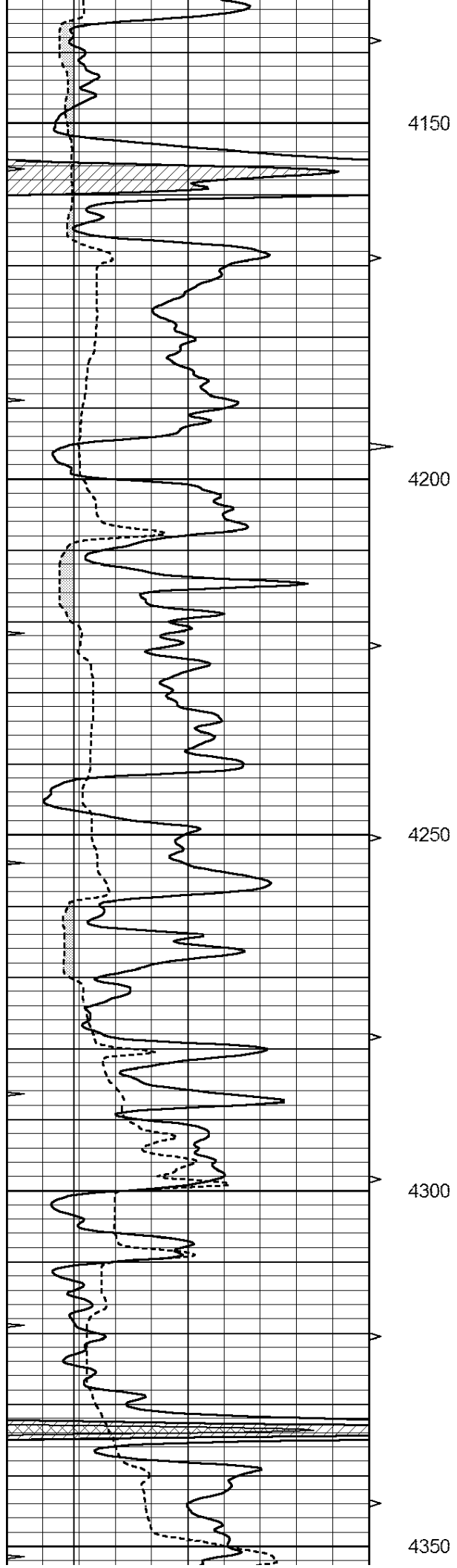
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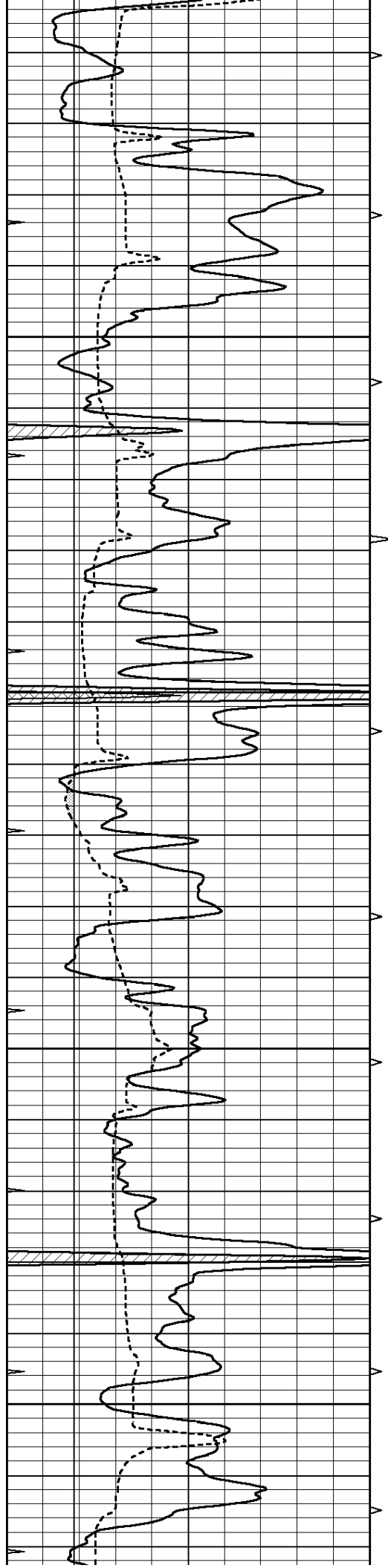
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4050

4100





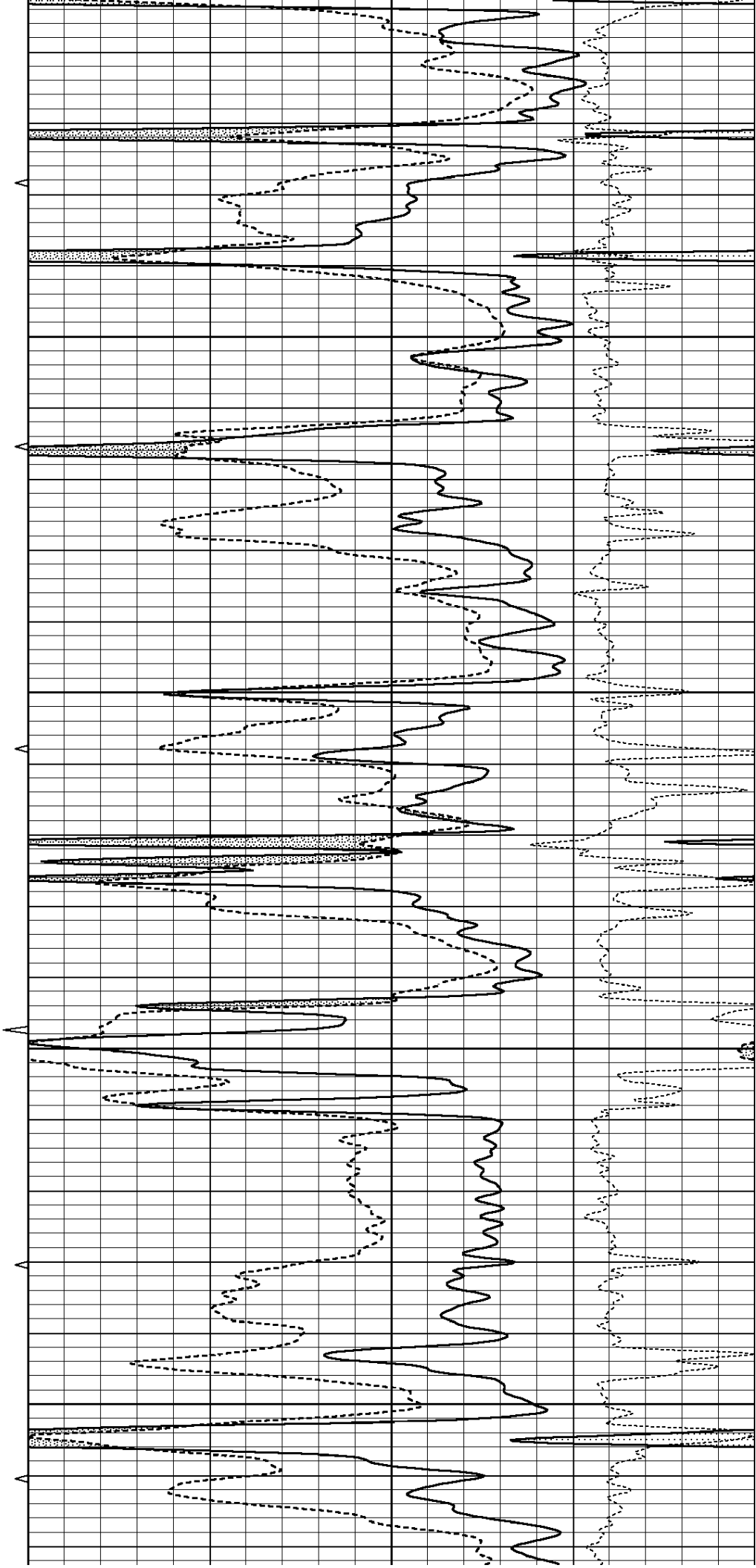


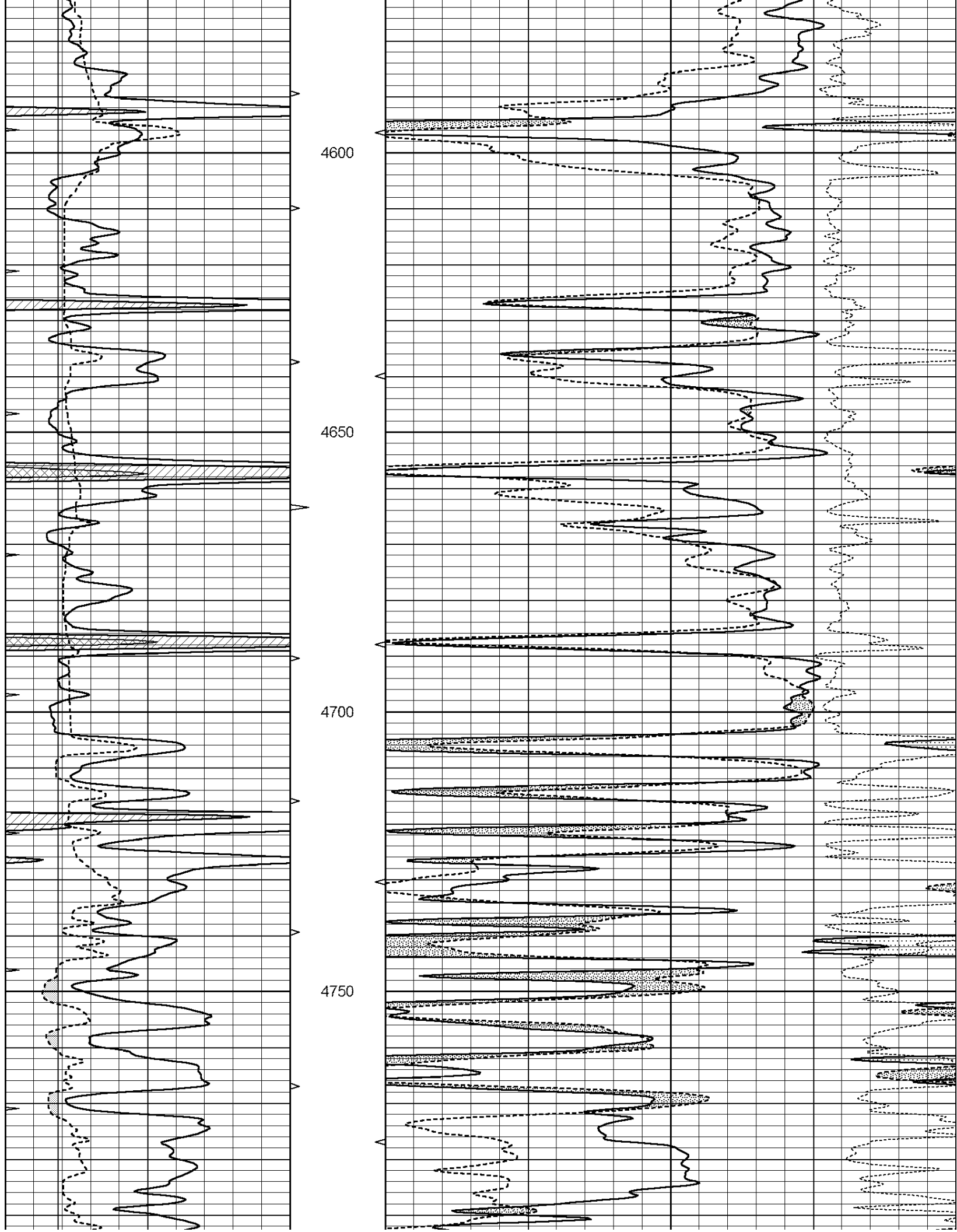
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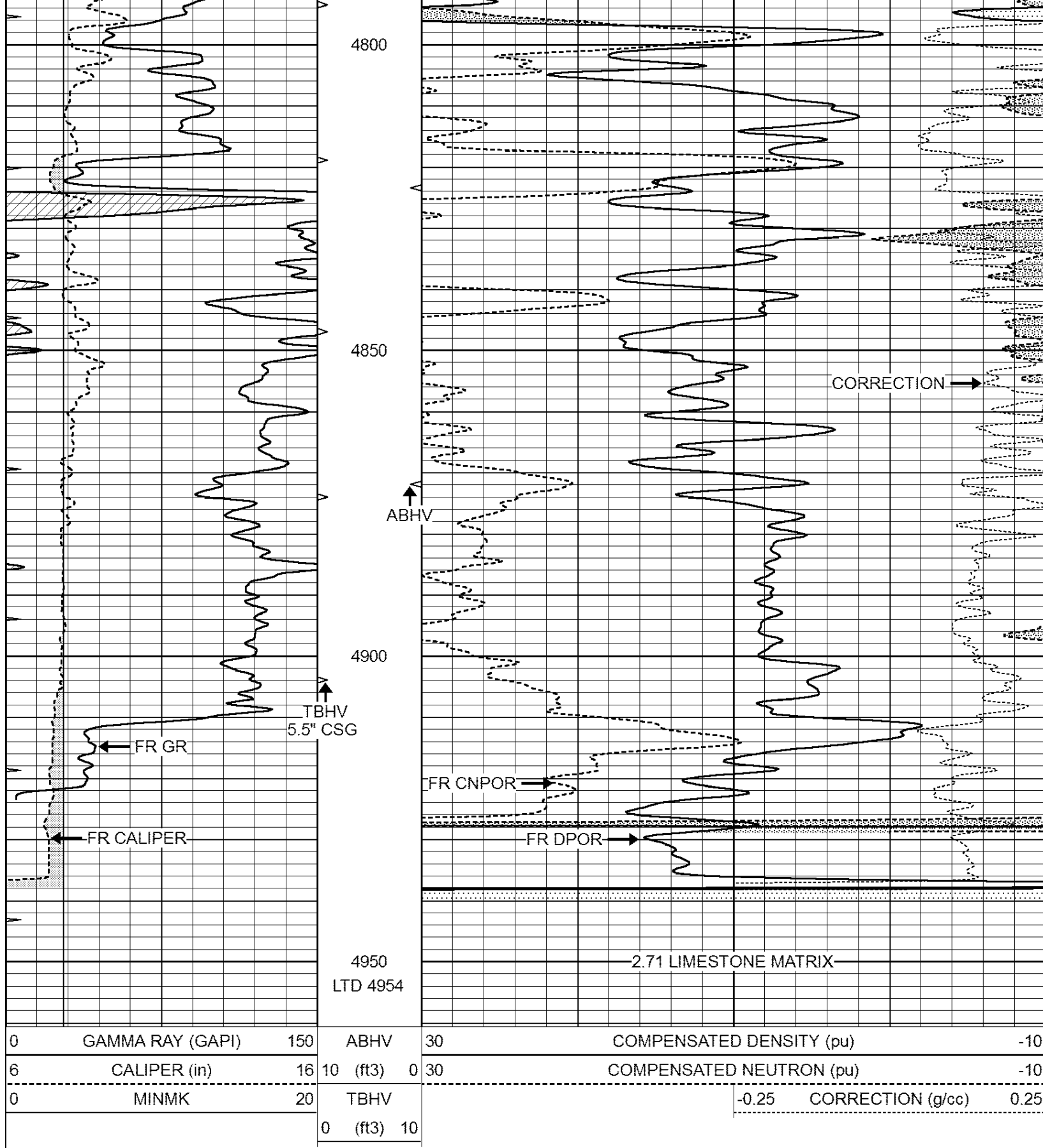
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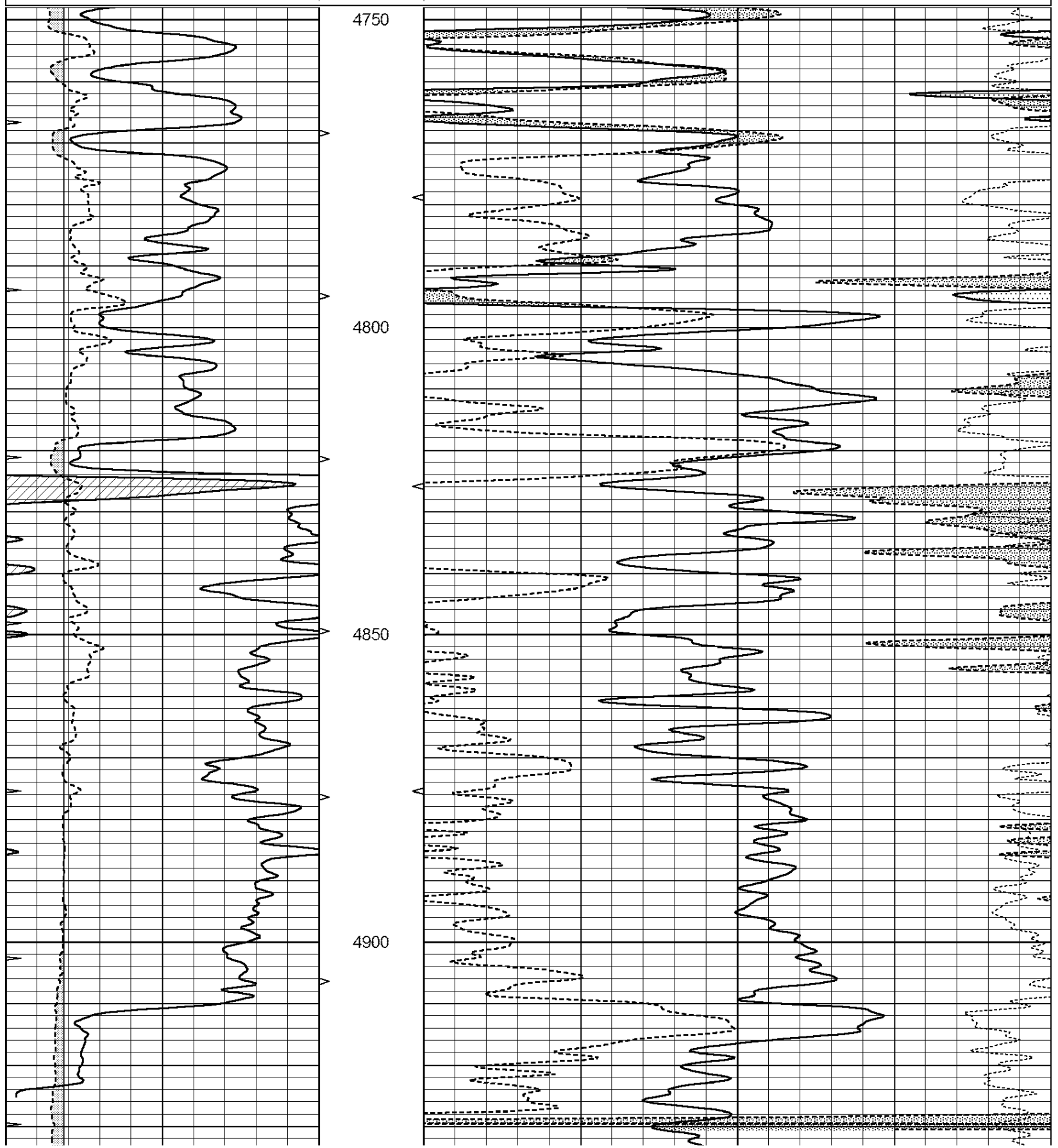
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Master Calibration Performed:						Tue Jul 29 12:40:09 2014	
Before Survey Verification Performed:							
After Survey Verification Performed:							
Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		943.83		576.01	cps
Aluminum	2.600	g/cc		212.01		399.19	cps
Spine Angle = 76.20			Density/Spine Ratio = 0.579				
	Size			Reading			
Small Ring	8.40	in		1.64	V		
Large Ring	14.00	in		2.93	V		
Before Survey Verification							
	Target			Measured			
		g/cc				g/cc	
		g/cc				g/cc	
		g/cc				g/cc	
After Survey Verification							
	Target			Measured			
		g/cc				g/cc	
		g/cc				g/cc	
		g/cc				g/cc	
Compensated Neutron Calibration Report							
Serial Number:			080620				
Tool Model:			Probe				
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:		46001					
Tool Model:		Probe1					
Performed:		Tue Jul 29 12:40:09 2014					
Calibrator Value:		1.0		GAPI			
Background Reading:		0.0		cps			
Calibrator Reading:		1.0		cps			
Sensitivity:		0.2400		GAPI/cps			