



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company	PFEIFER EXPLORATIONS, LLC.	Company	PFEIFER EXPLORATIONS, LLC.
Well	K TRUAN #4-2	Well	K TRUAN #4-2
Field	WILDCAT	Field	WILDCAT
County	RUSSELL	County	RUSSELL
State	KANSAS	State	KANSAS
Location:	API # : 15-167-23822-0000 1325' FSL & 1540' FWL	Other Services DIL/MEL	
Permanent Datum	GROUND LEVEL	Elevation	1835.5
Log Measured From	KELLY BUSHING 7' A.G.L.	K.B.	1842.5
Drilling Measured From	KELLY BUSHING	D.F.	1840.5
		G.L.	1835.5
Date	10/6/12		
Run Number	ONE		
Depth Driller	3410		
Depth Logger	3407		
Bottom Logged Interval	3383		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 224		
Casing Logger	224		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	13000 PPM
Density / Viscosity	9.0/69		
pH / Fluid Loss	10.0/10.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.42 @ 66F		
Rinf @ Meas. Temp	.31 @ 66F		
Rinc @ Meas. Temp	.49 @ 66F		
Source of Rinf / Rinc	MEASURED		
Rin @ BHT	.25 @ 110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JAY PFEIFER		

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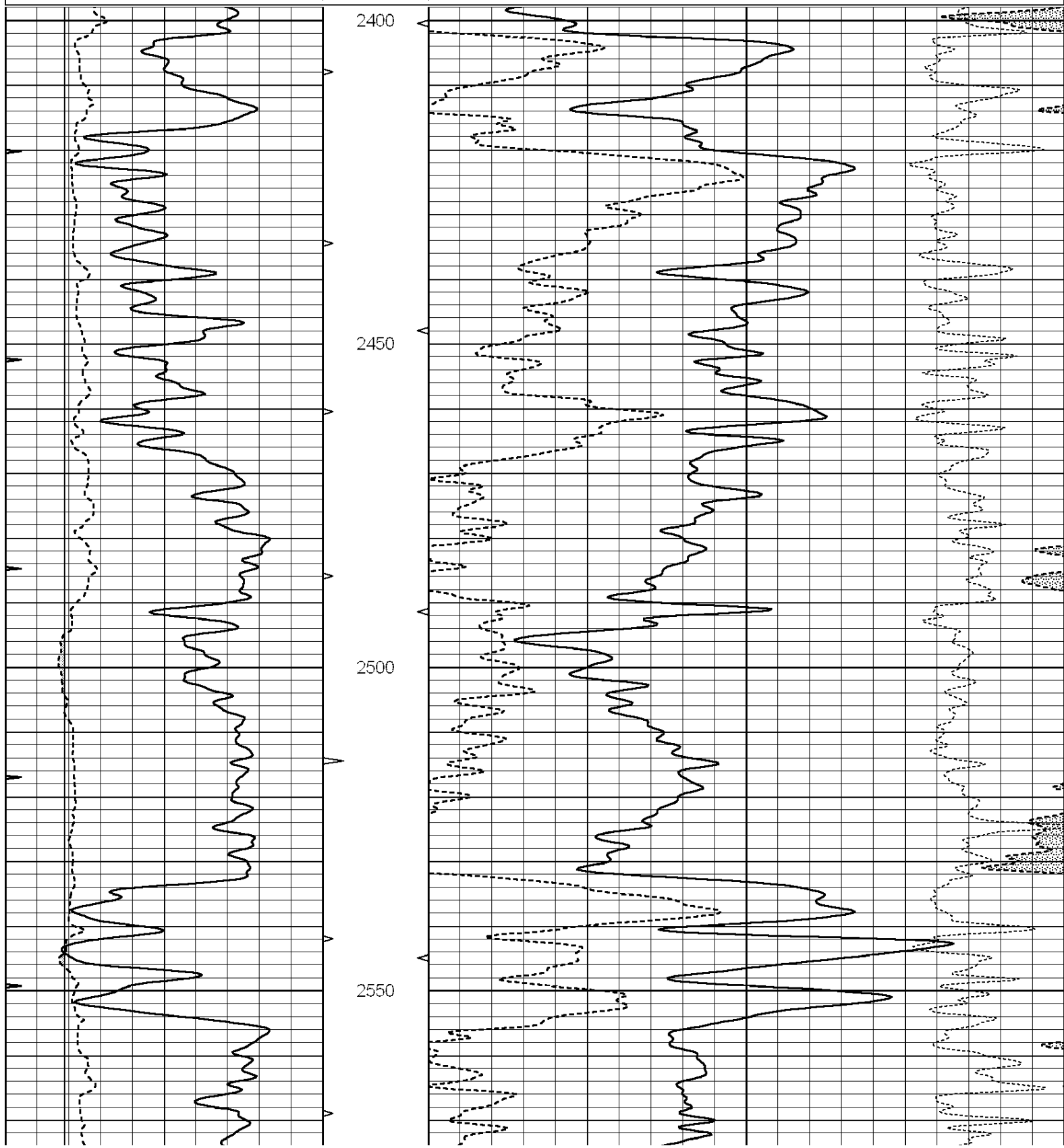
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

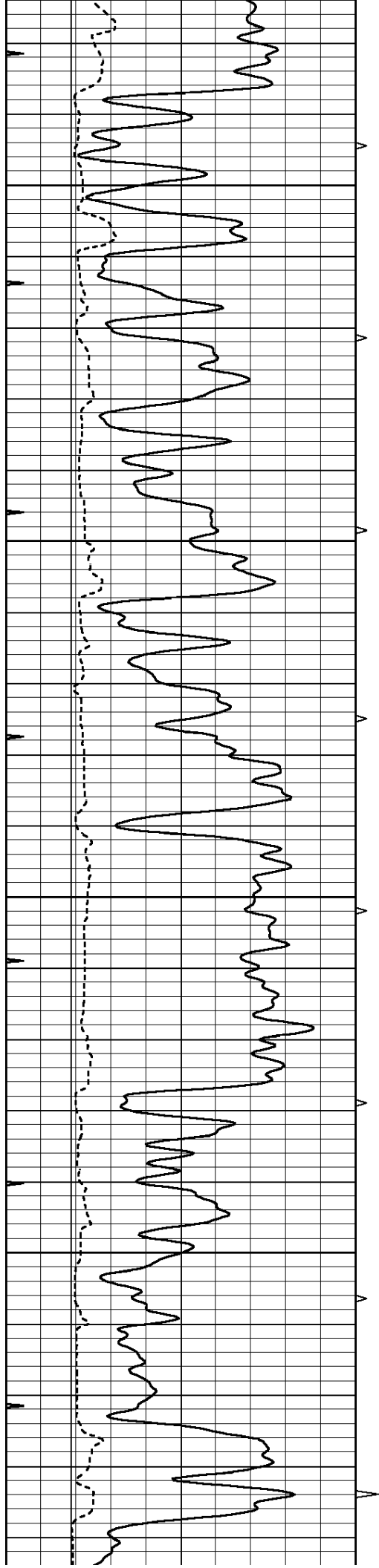
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
GORHAM, KS. - S. TO END OF BLKTOP - 1 E. - 1 S. - 1/4 E. - N. INTO

Database File: 009743ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: _den_neu
 Dataset Creation: Sat Oct 06 01:45:42 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



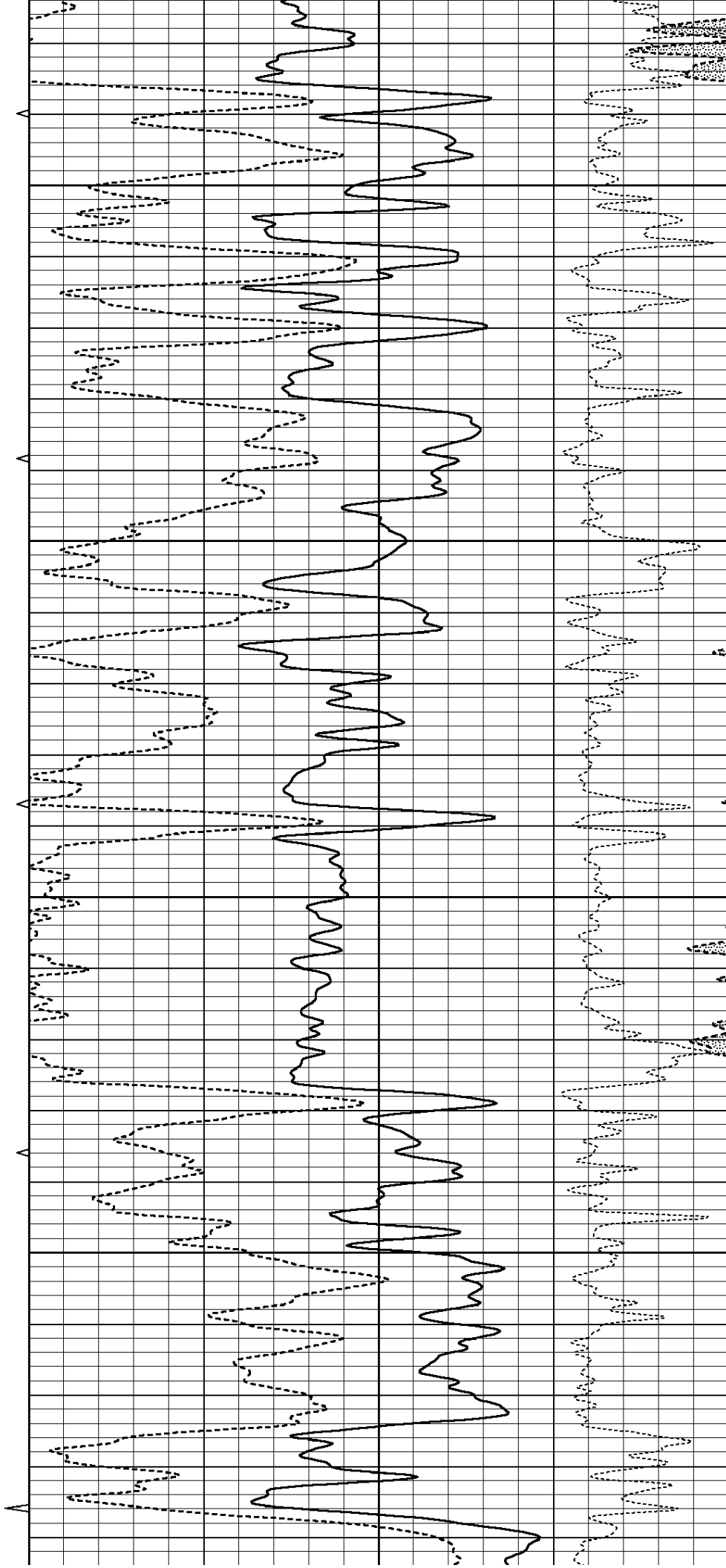


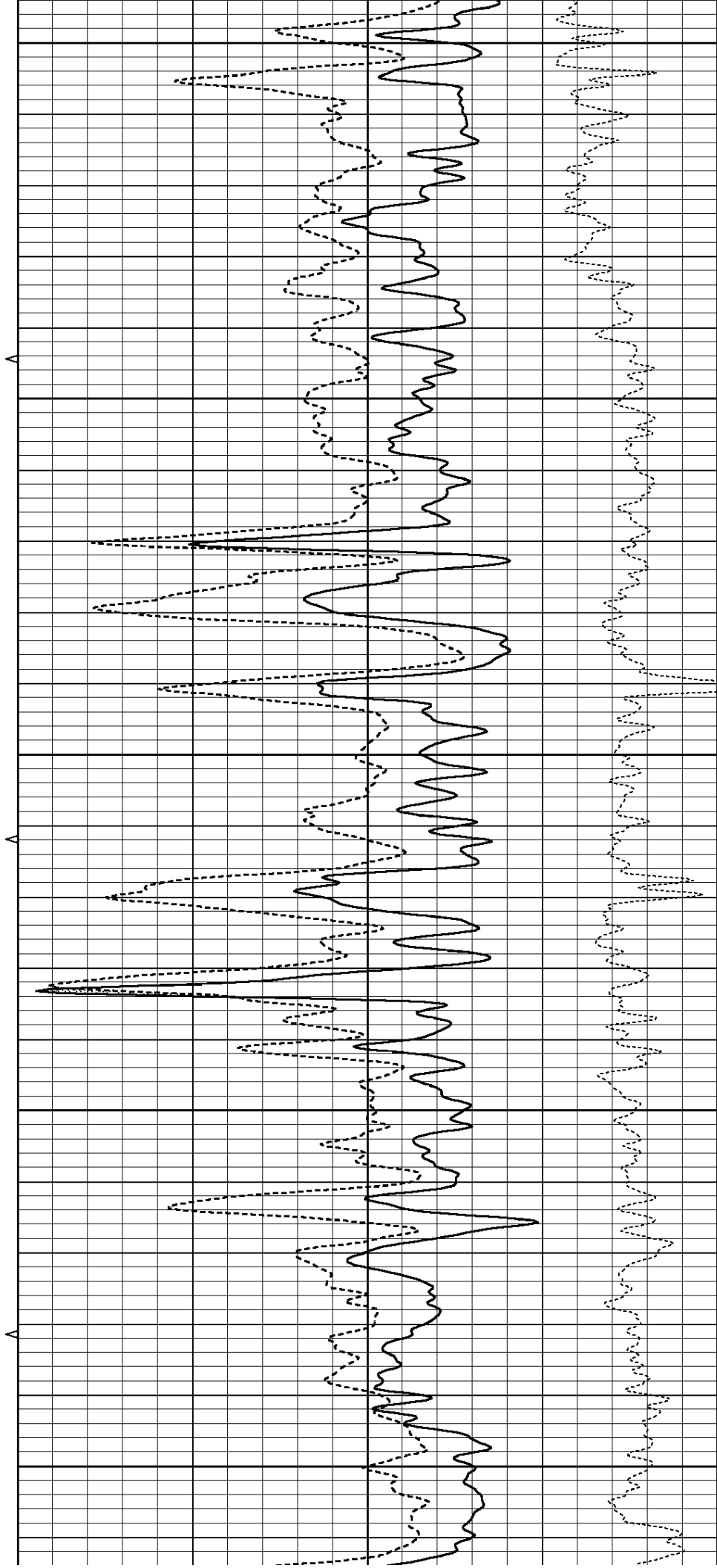
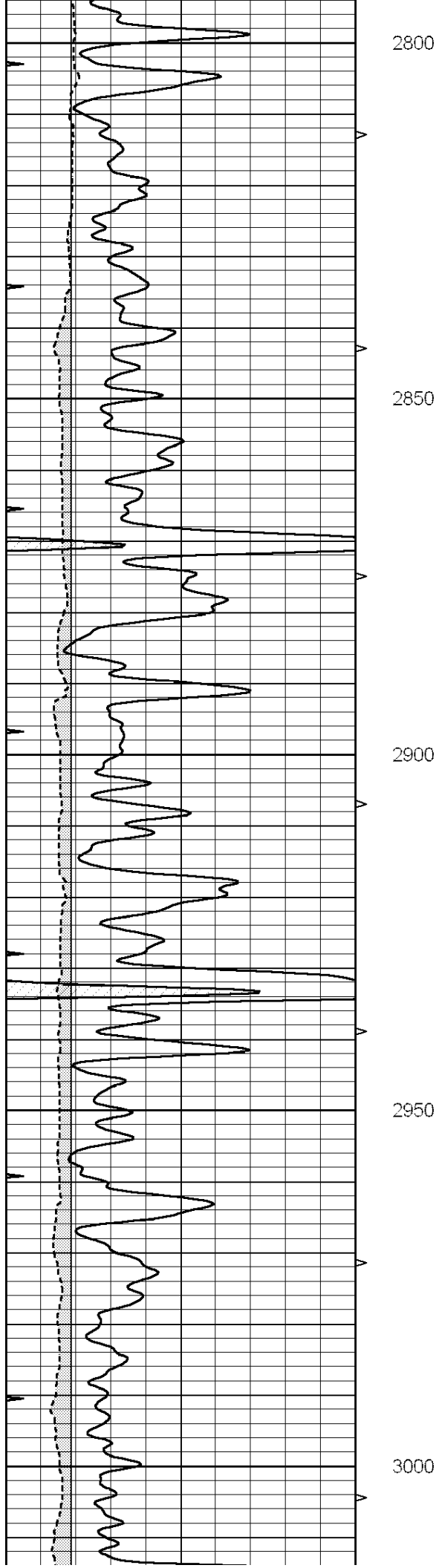
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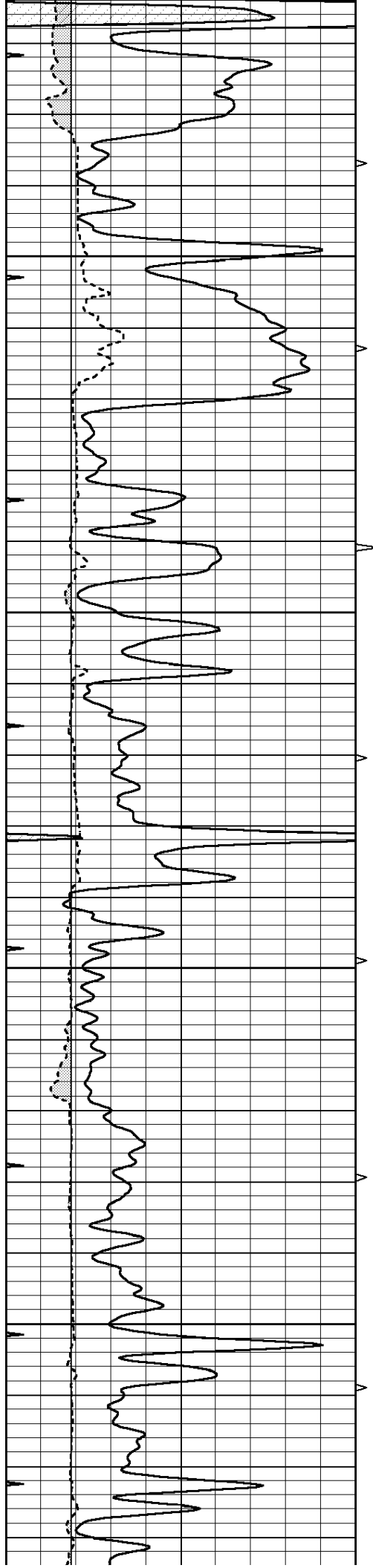
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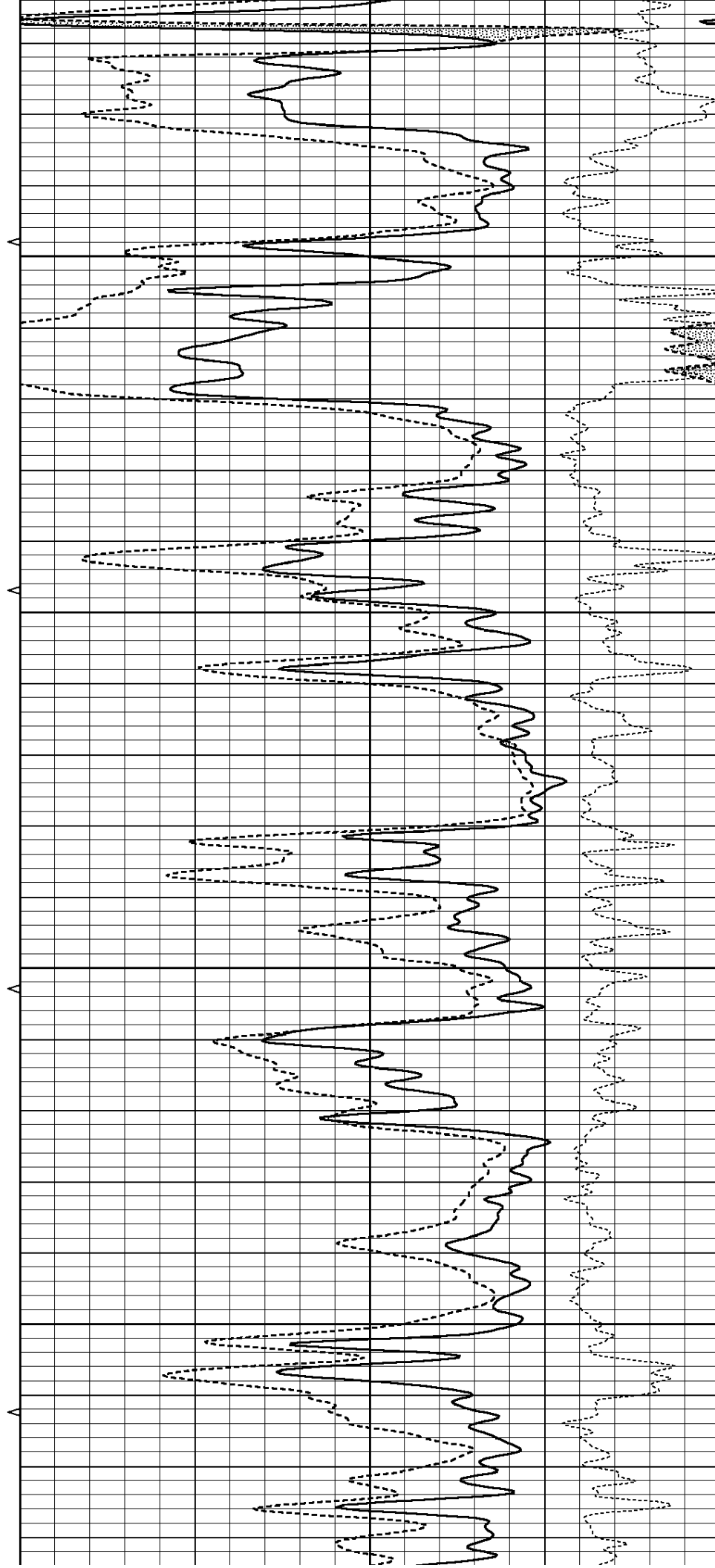


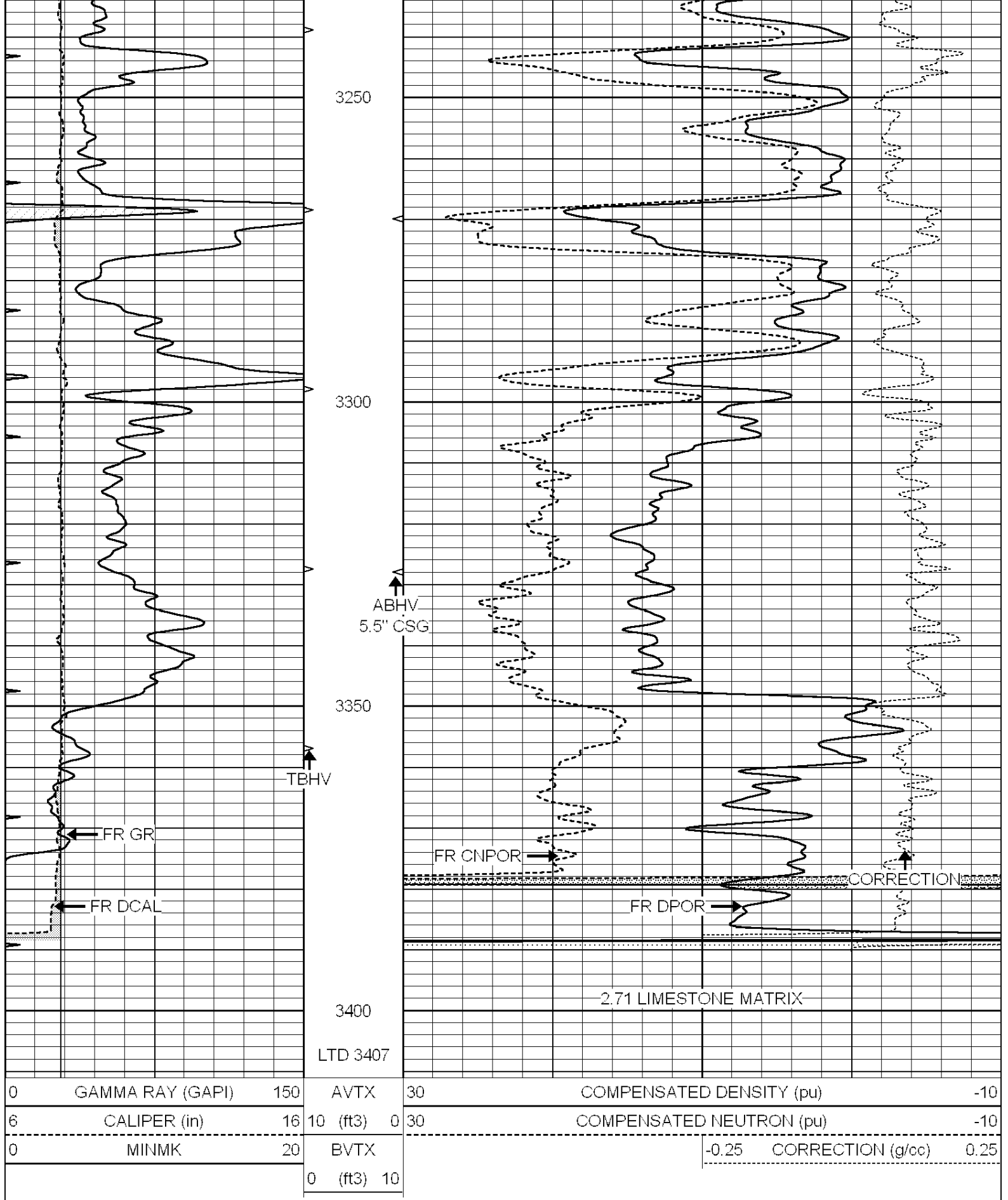
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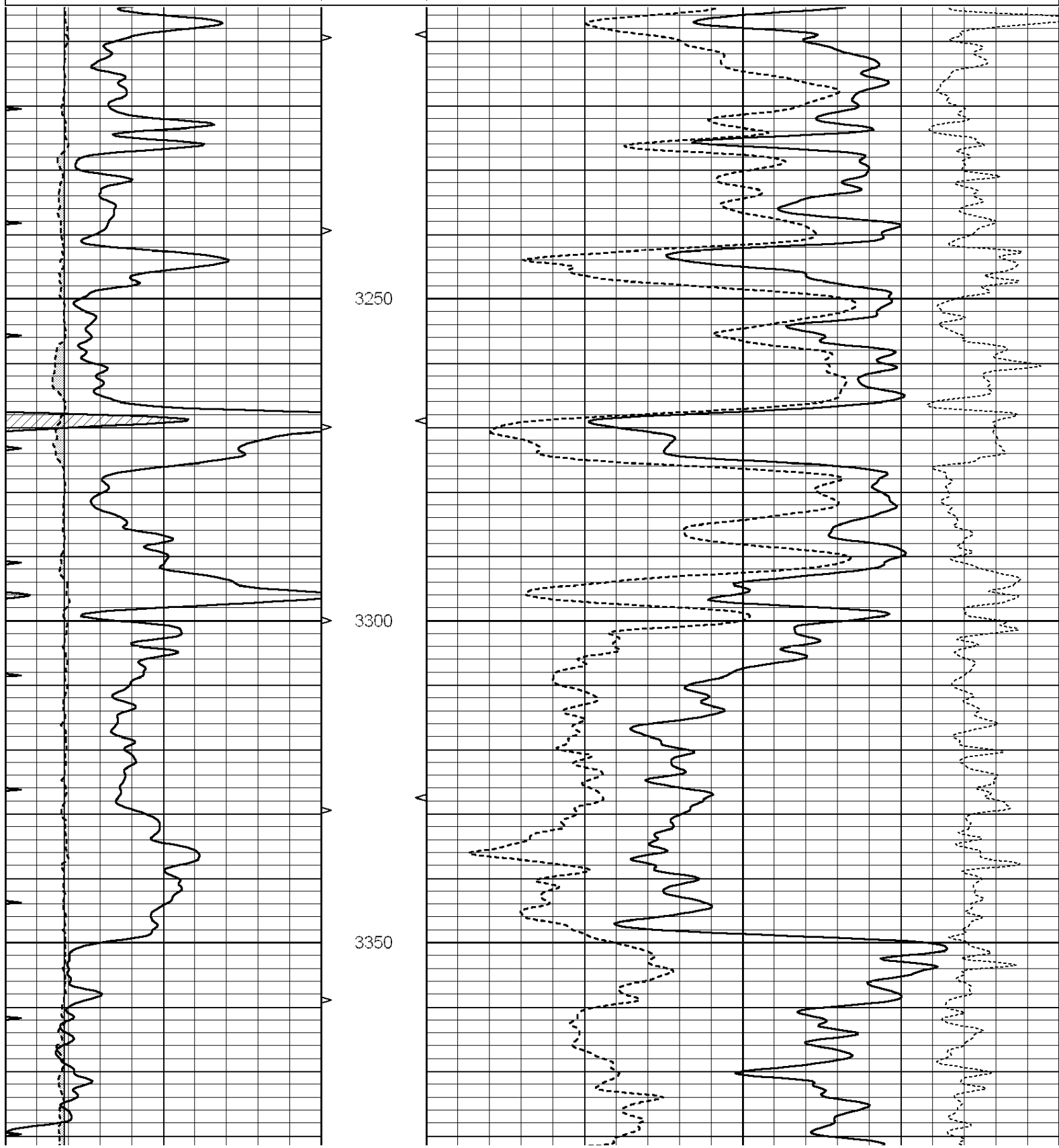
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Database File: 009743ddn.db
 Dataset Pathname: pass2.3
 Presentation Format: _den_neu
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 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1015.91		497.51	cps
Aluminum	2.600	g/cc		227.67		350.20	cps
Spine Angle = 76.79				Density/Spine Ratio = 0.579			
	Size			Reading			
Small Ring	8.00	in		3.21		V	
Large Ring	14.00	in		5.46		V	

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

Gamma Ray Calibration Report

Serial Number: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps