

**NABORS****COMPLETION
& PRODUCTION
SERVICES CO.****COMPENSATED
NEUTRON / DENSITY
LOG**

Company	IA OPERATING, INC	Company	IA OPERATING, INC
Well	SONDE 15-1	Well	SONDE 15-1
Field	UNNAMED	Field	UNNAMED
County	FINNEY	County	FINNEY
State	KANSAS	State	KANSAS
Location:	API # : 15-055-22180 SE NENE NE 354' FNL & 124' FEL	Other Services DIL/SON	
Permanent Datum	GROUND LEVEL	Elevation	2895
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B. 2906	
Drilling Measured From	KELLY BUSHING	D.F. 2904	
		G.L. 2895	
Date	OCTOBER 17, 2012		
Run Number	ONE		
Depth Driller	5035		
Depth Logger	5029		
Bottom Logged Interval	5005		
Top Log Interval	2500		
Casing Driller	8 5/8" @ 348		
Casing Logger	347		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2100 PPM	
Density / Viscosity	9.4/62		
pH / Fluid Loss	9.5/7.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1 @ 62F		
Rmf @ Meas. Temp	.82 @ 62F		
Rmc @ Meas. Temp	1.32 @ 62F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.54 @ 125F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	2:00 PM		
Maximum Recorded Temperature	125F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	MIKE GARRISON	JASON CAPPELLUCCI	
Witnessed By	TERY MCLEOD		

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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.

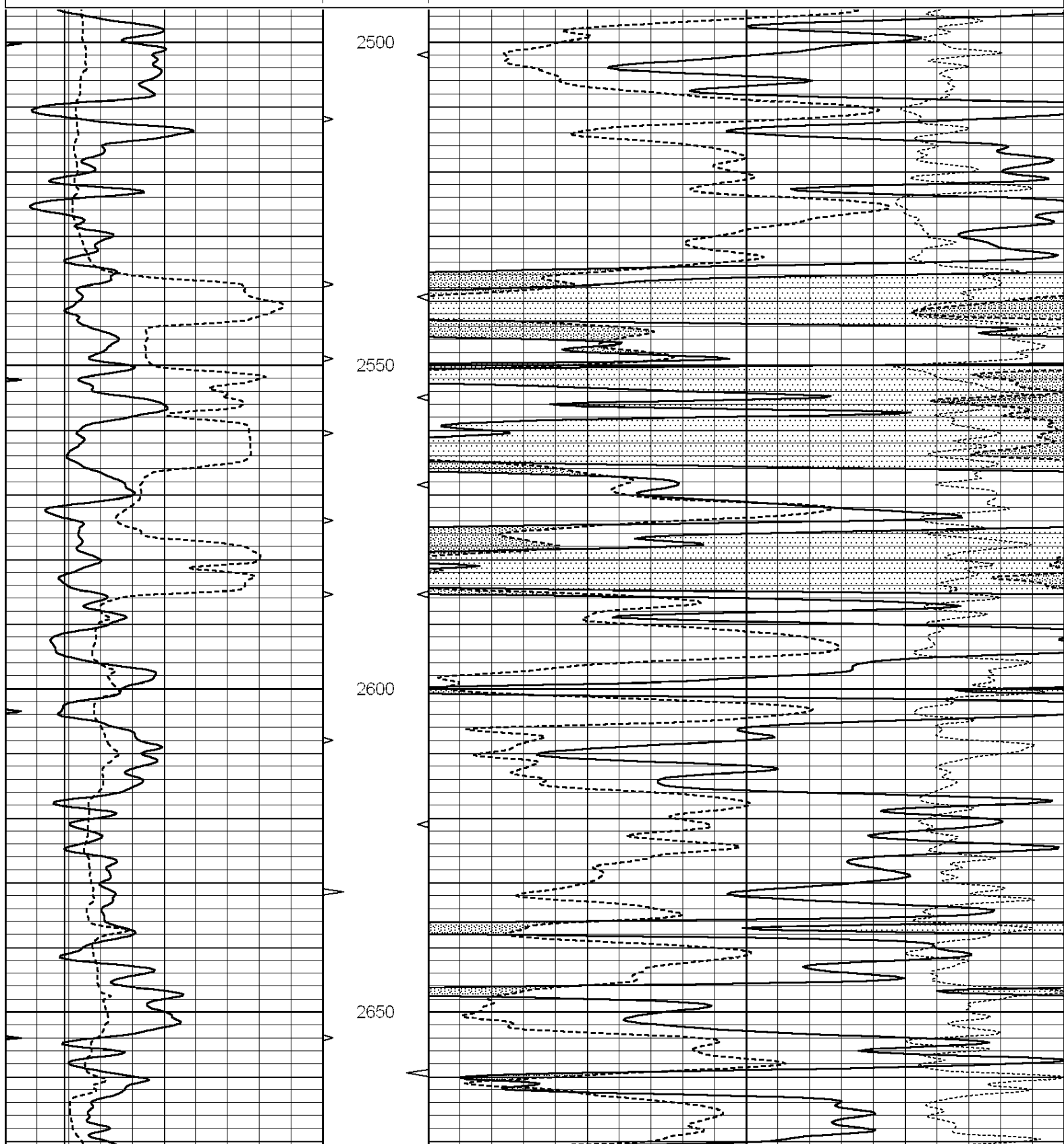
Comments

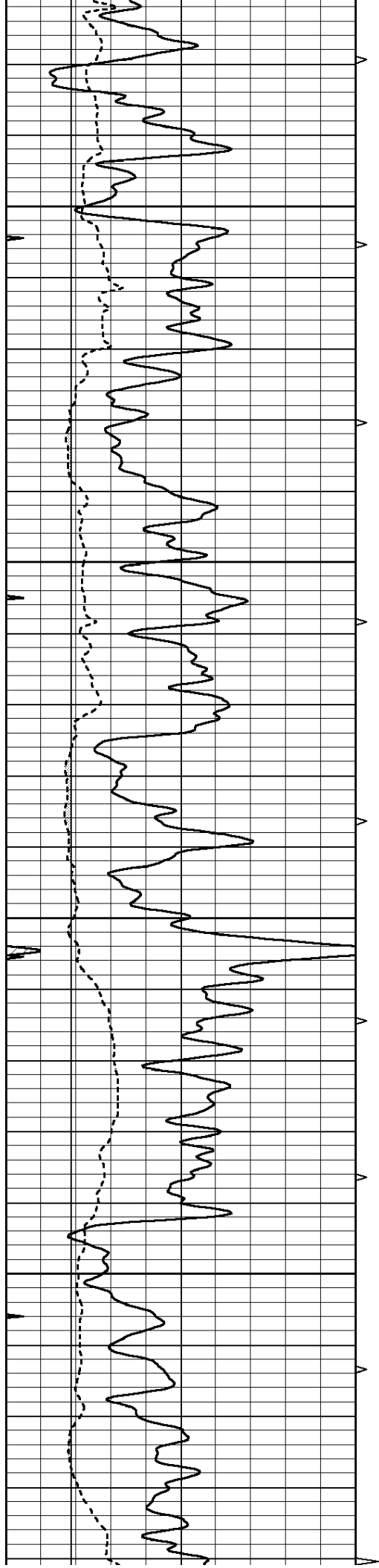
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
SCOTT CITY, 22 SOUTH TO TENNIS RD, 9 EAST, 1 SOUTH, 1/2 EAST, SOUTH INTO

**NABORS**
**COMPLETION
& PRODUCTION****MAIN PASS**

Database File: 009976.db
 Dataset Pathname: pass3.1
 Presentation Format: _den_neu
 Dataset Creation: Wed Oct 17 15:28:23 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		



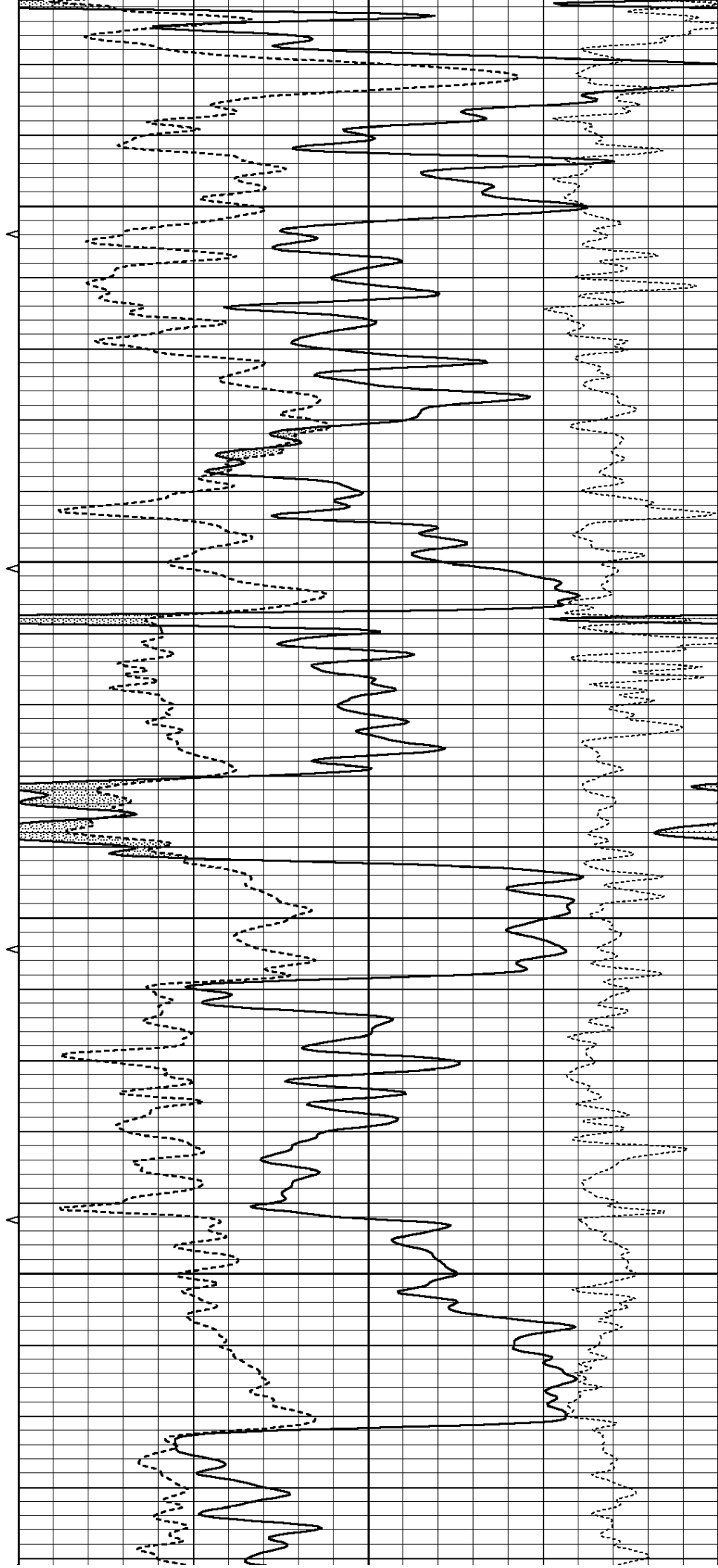


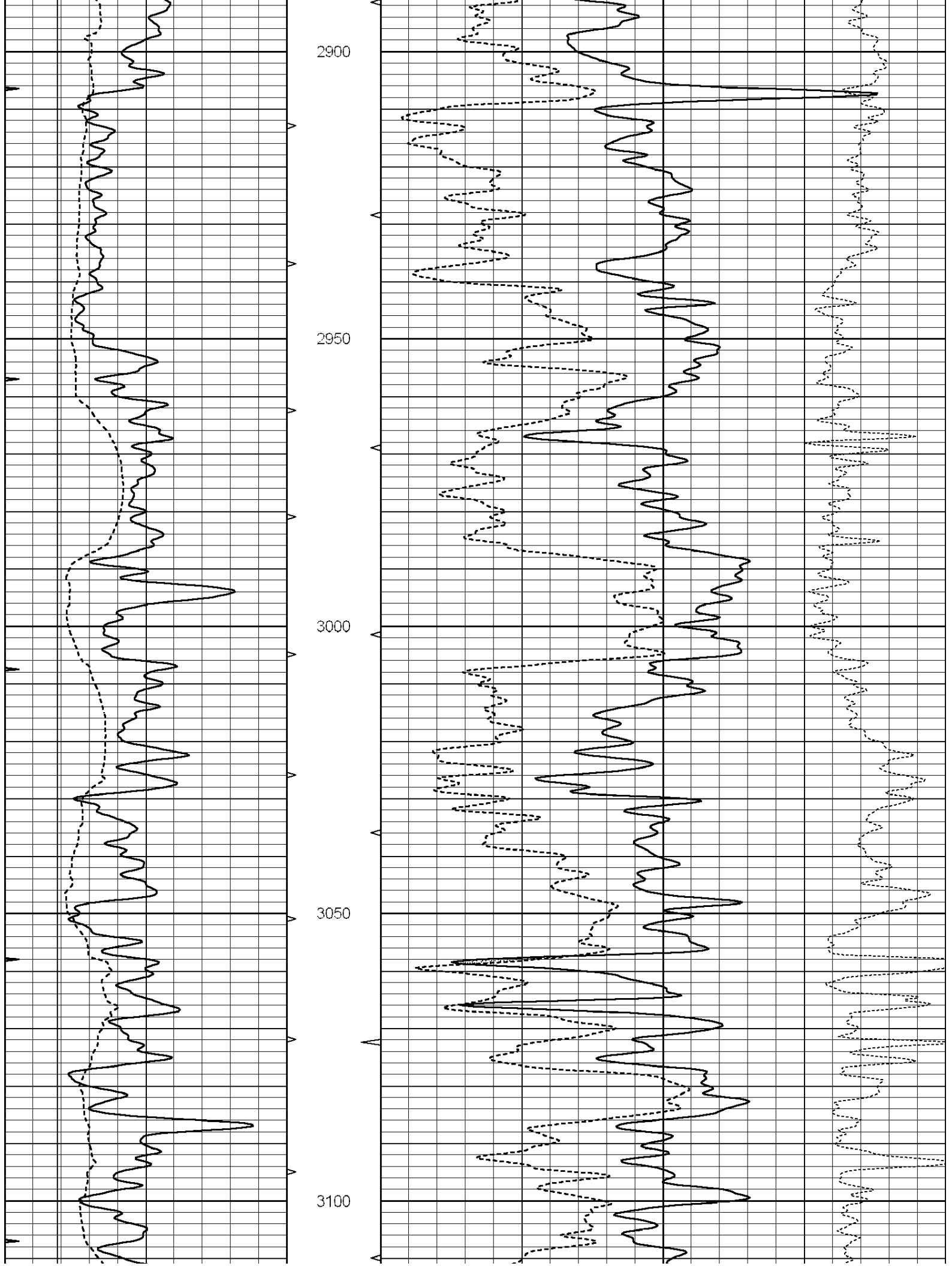
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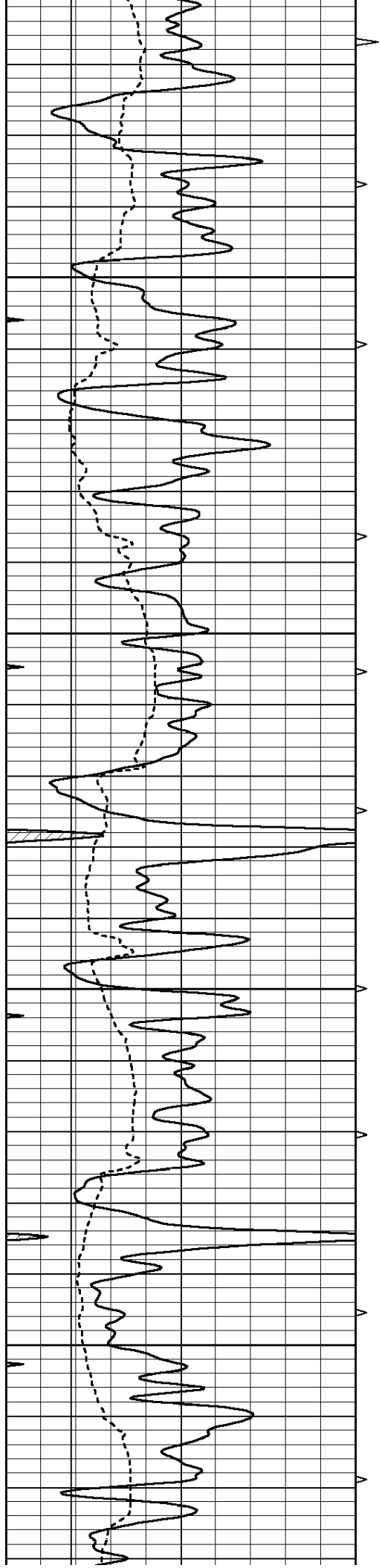
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2850





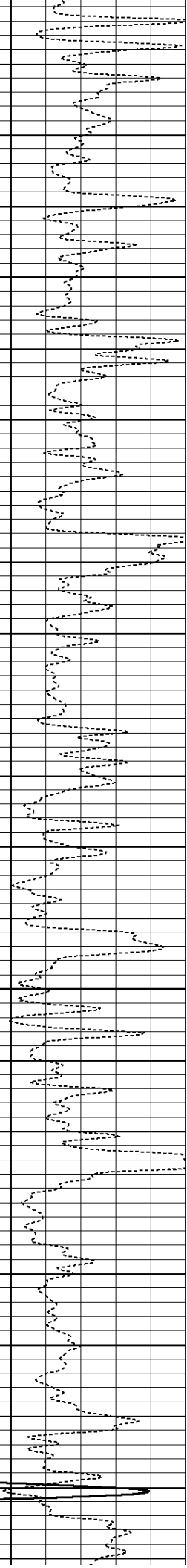
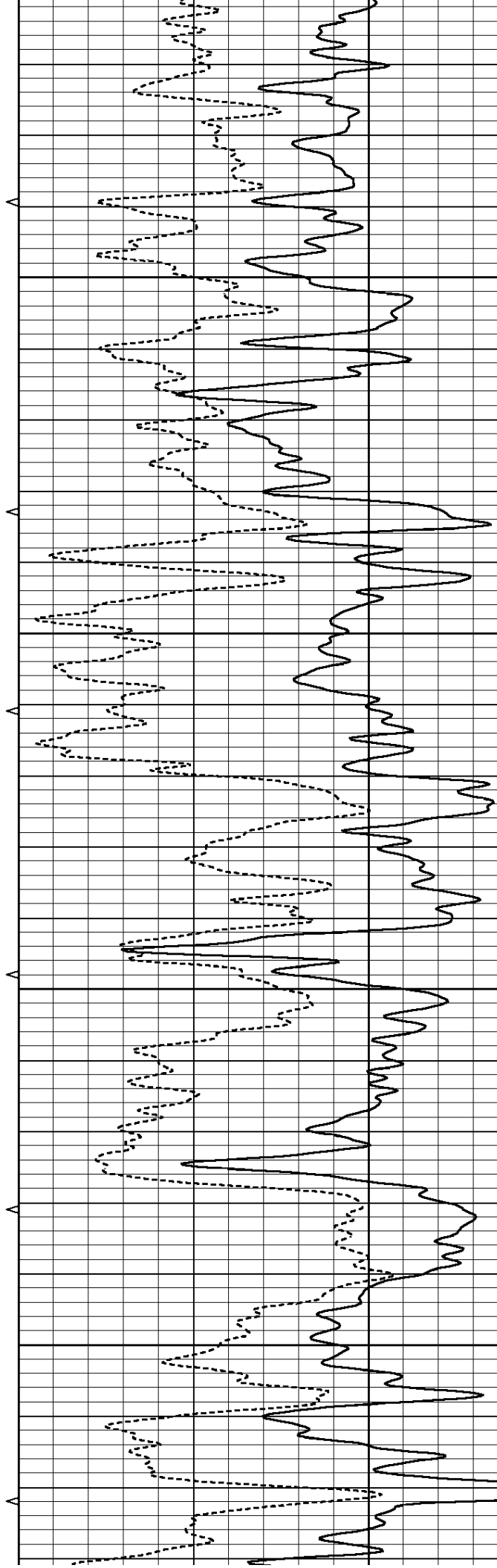


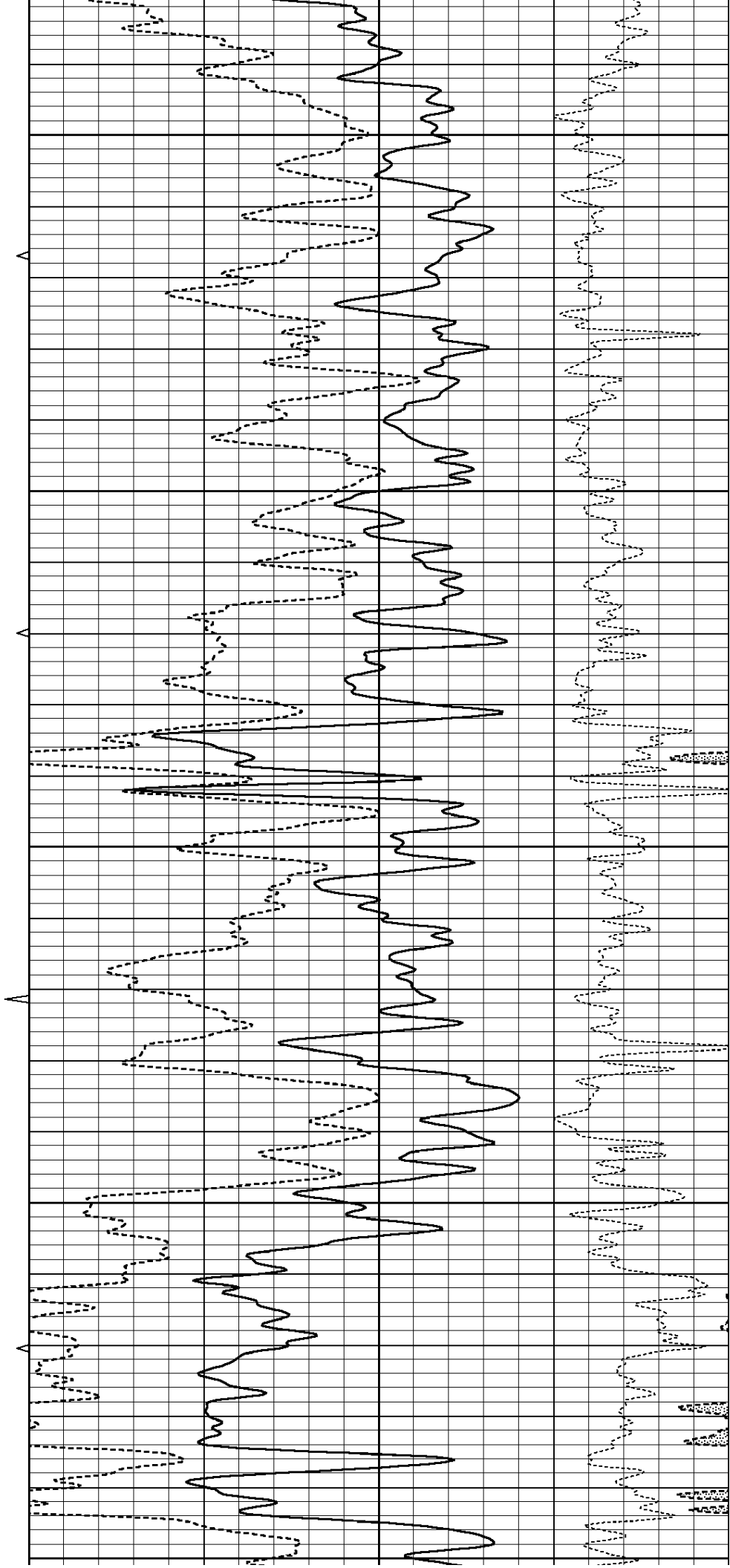
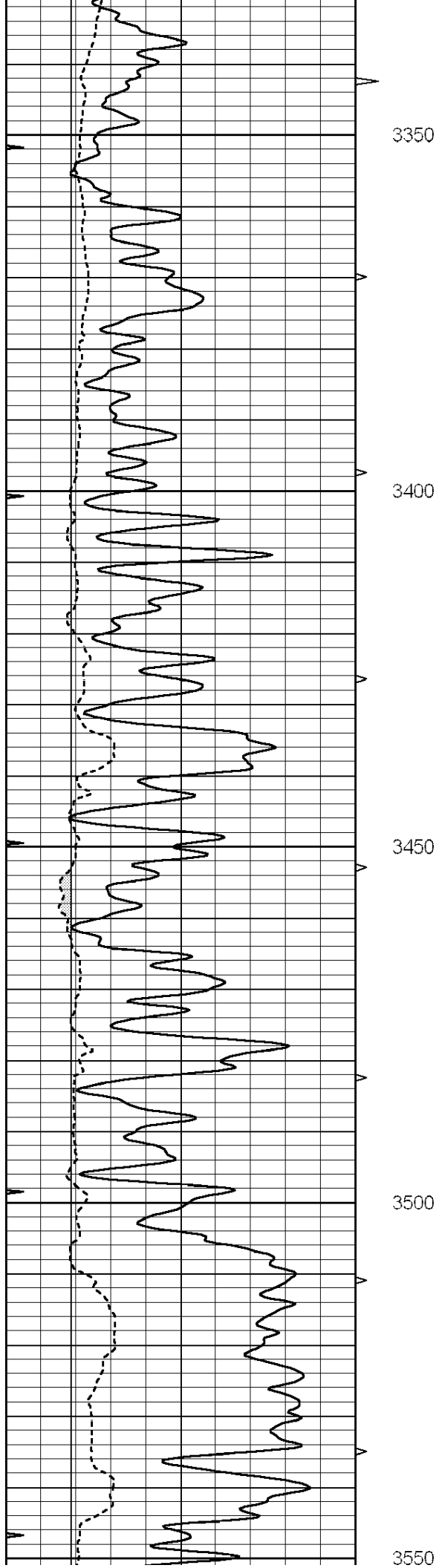
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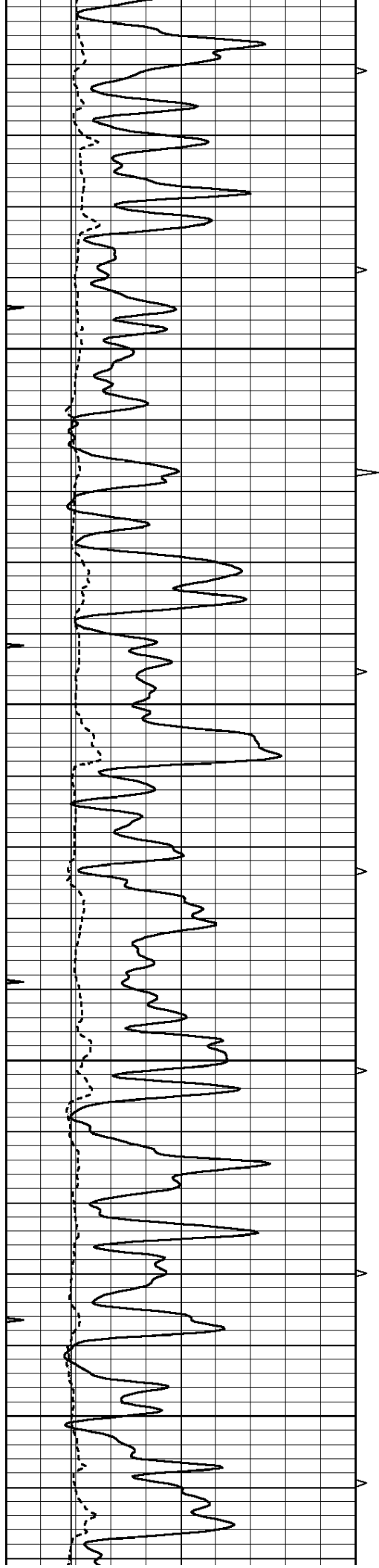
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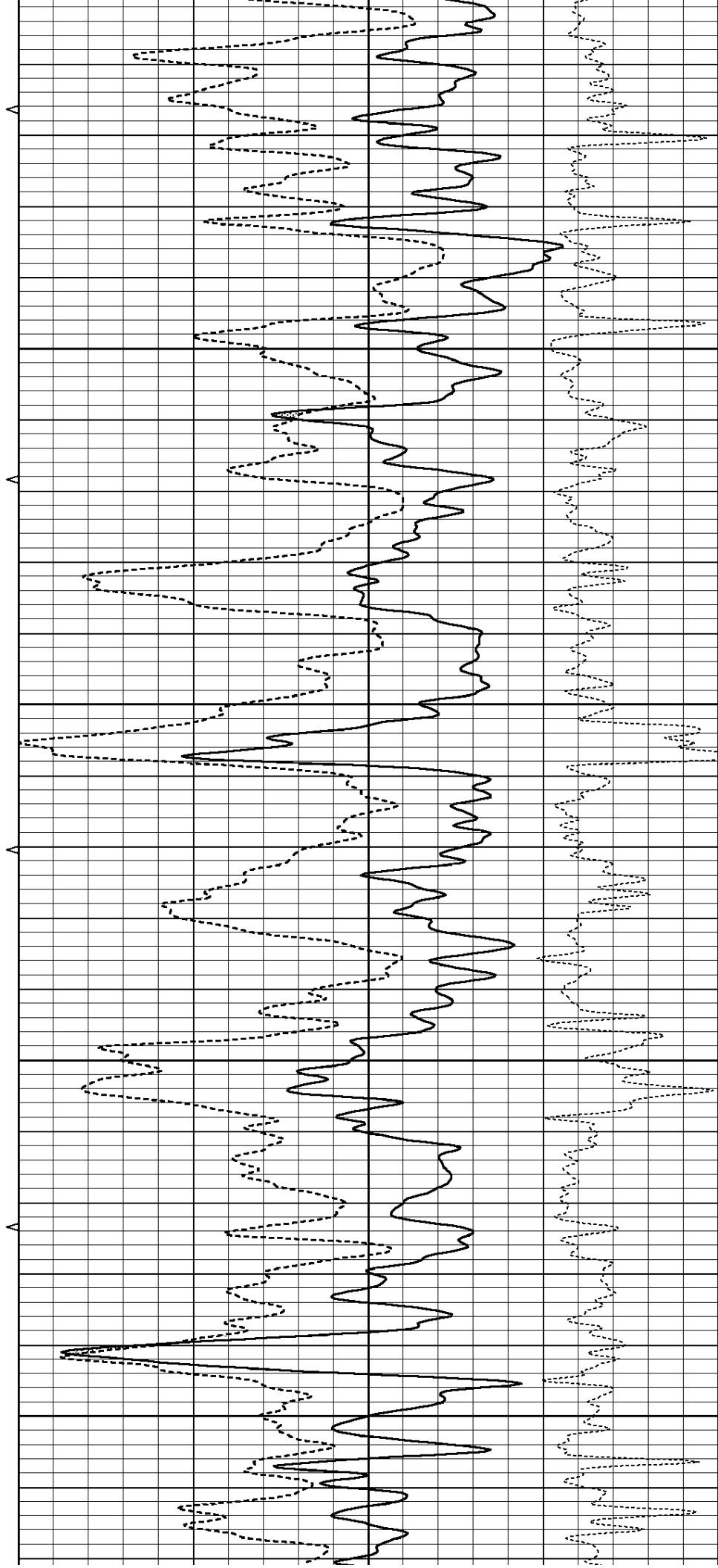


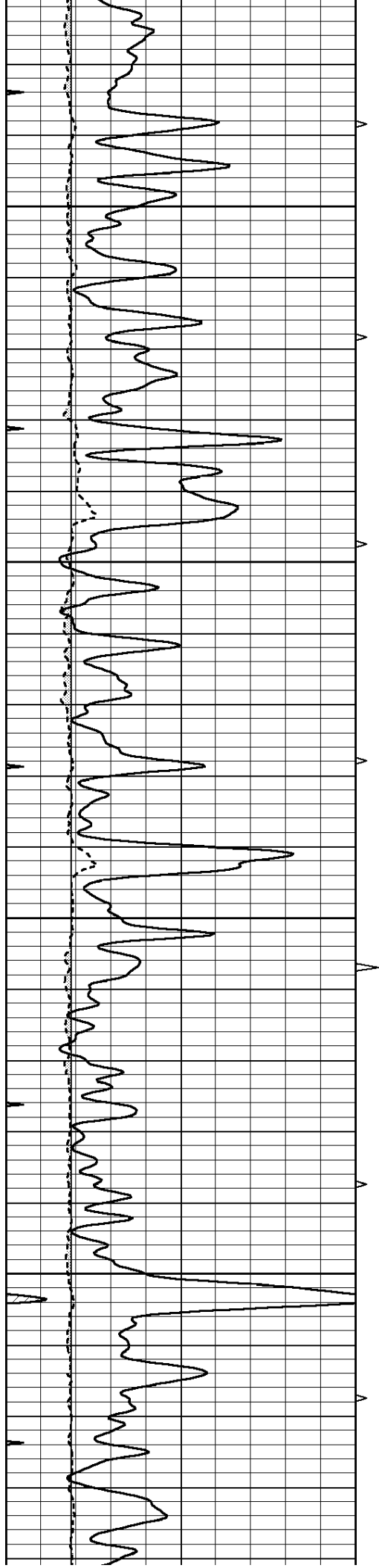
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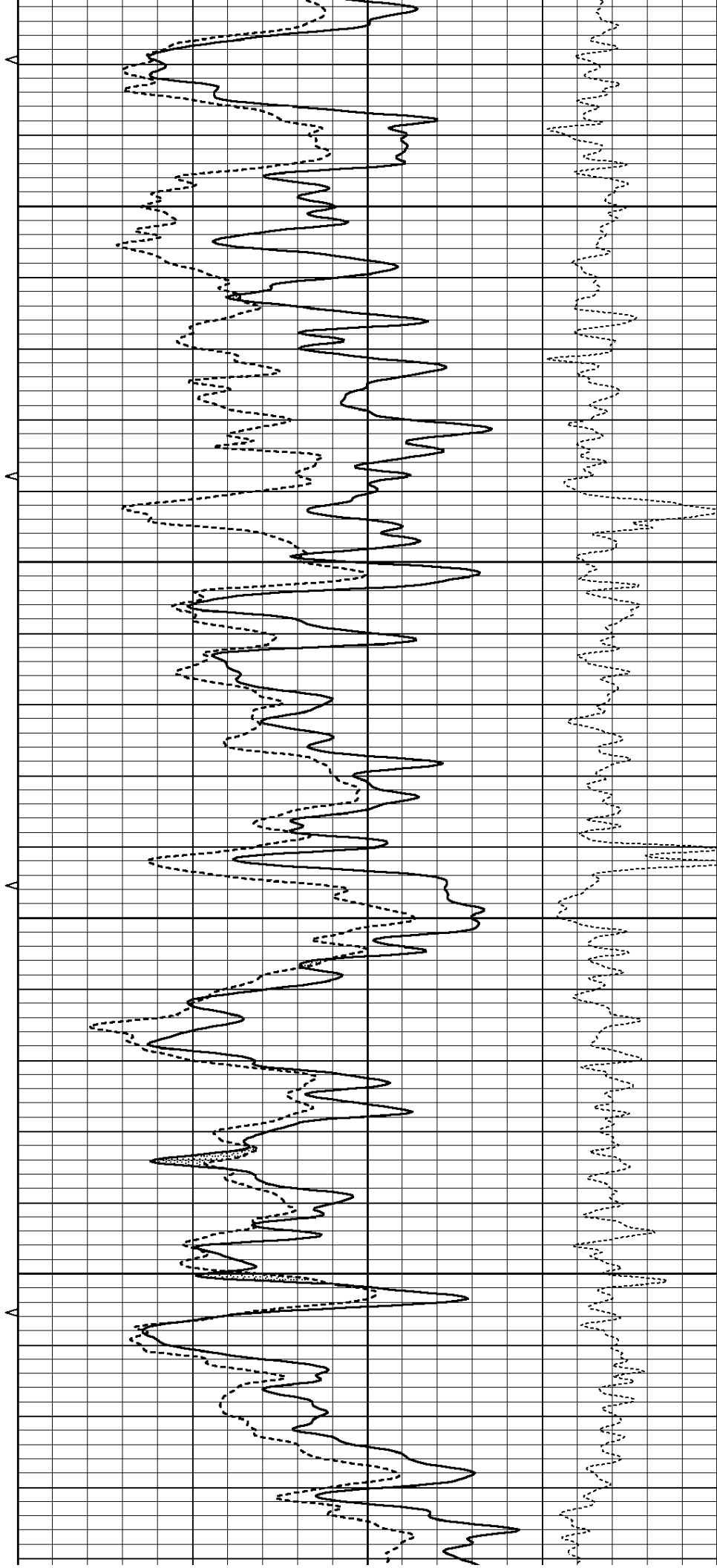


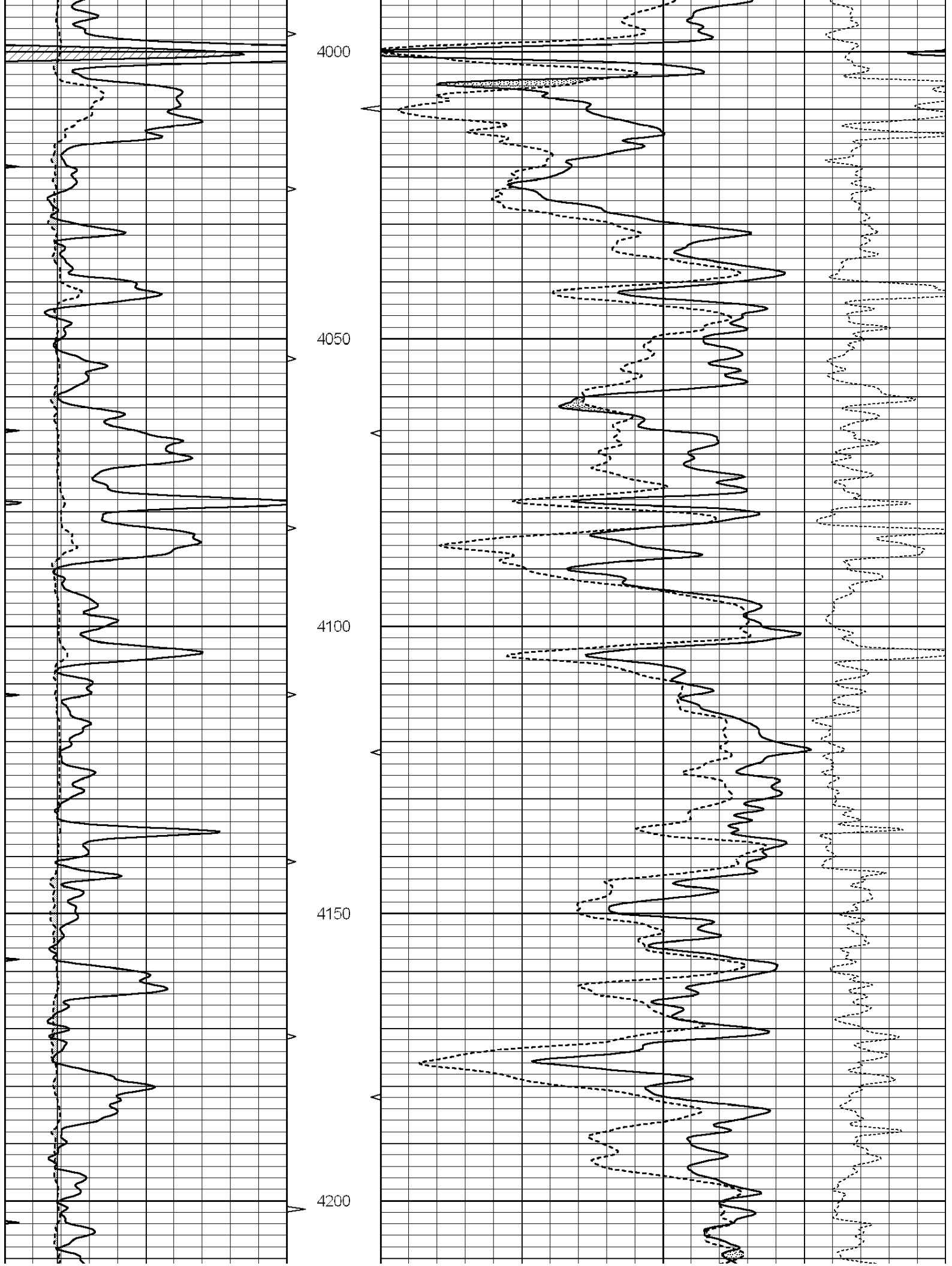
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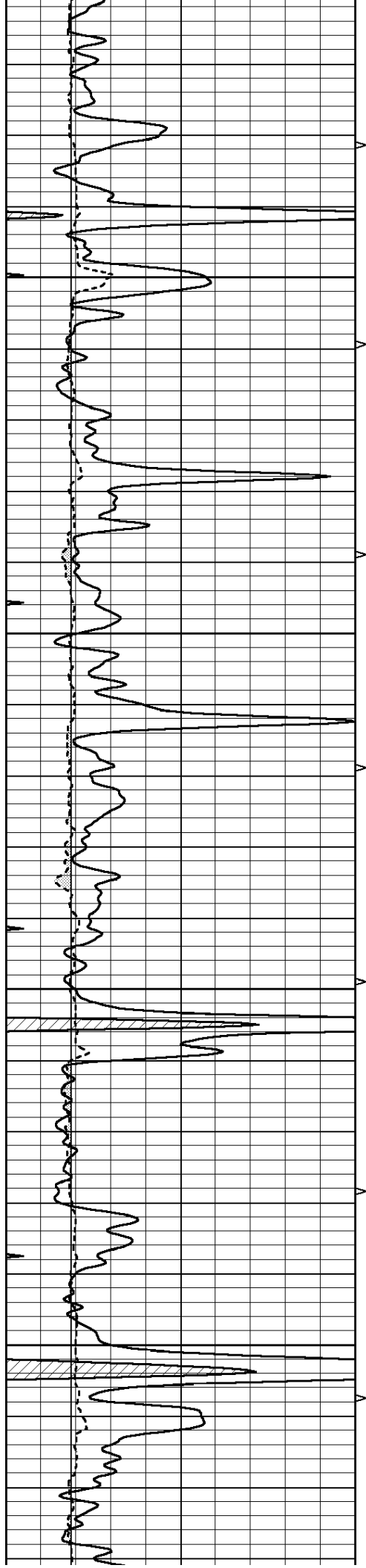
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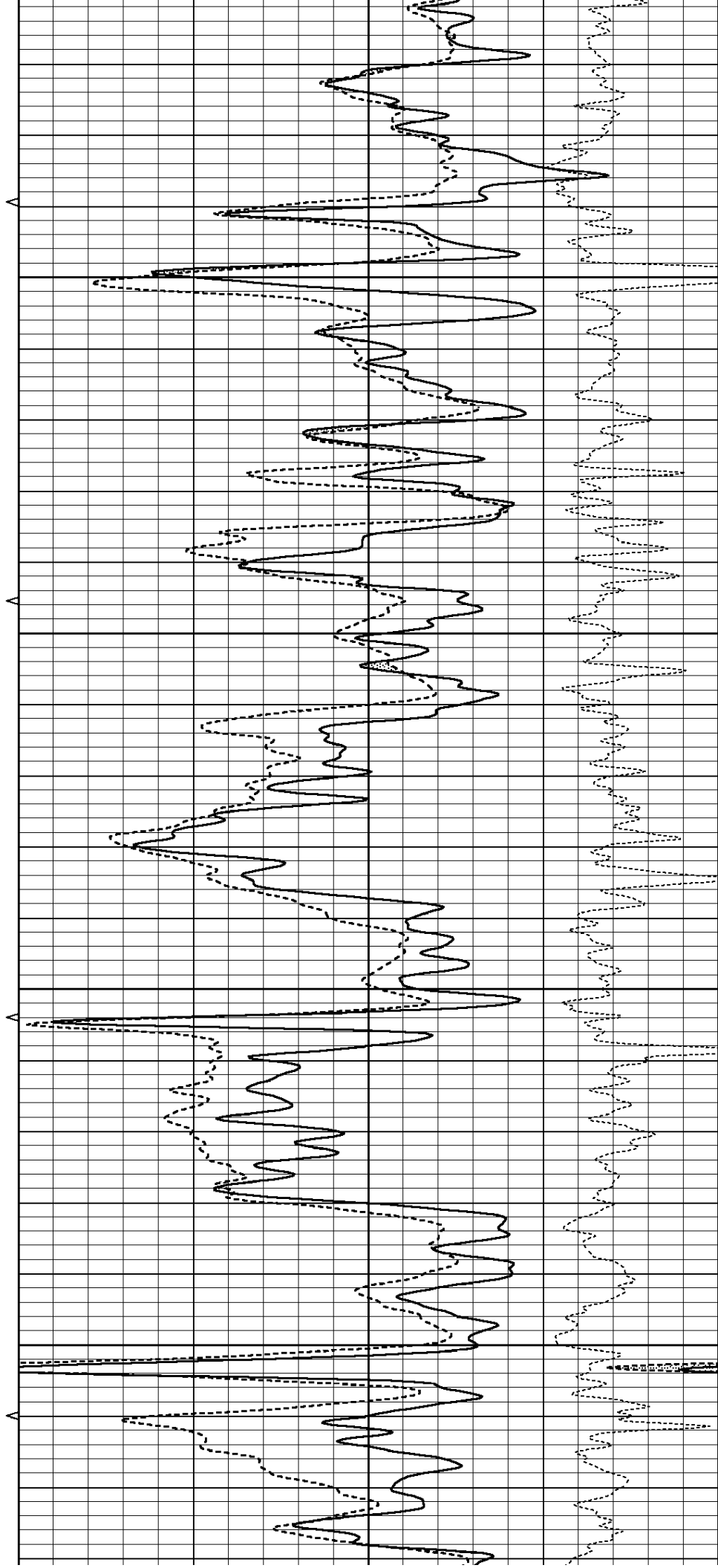


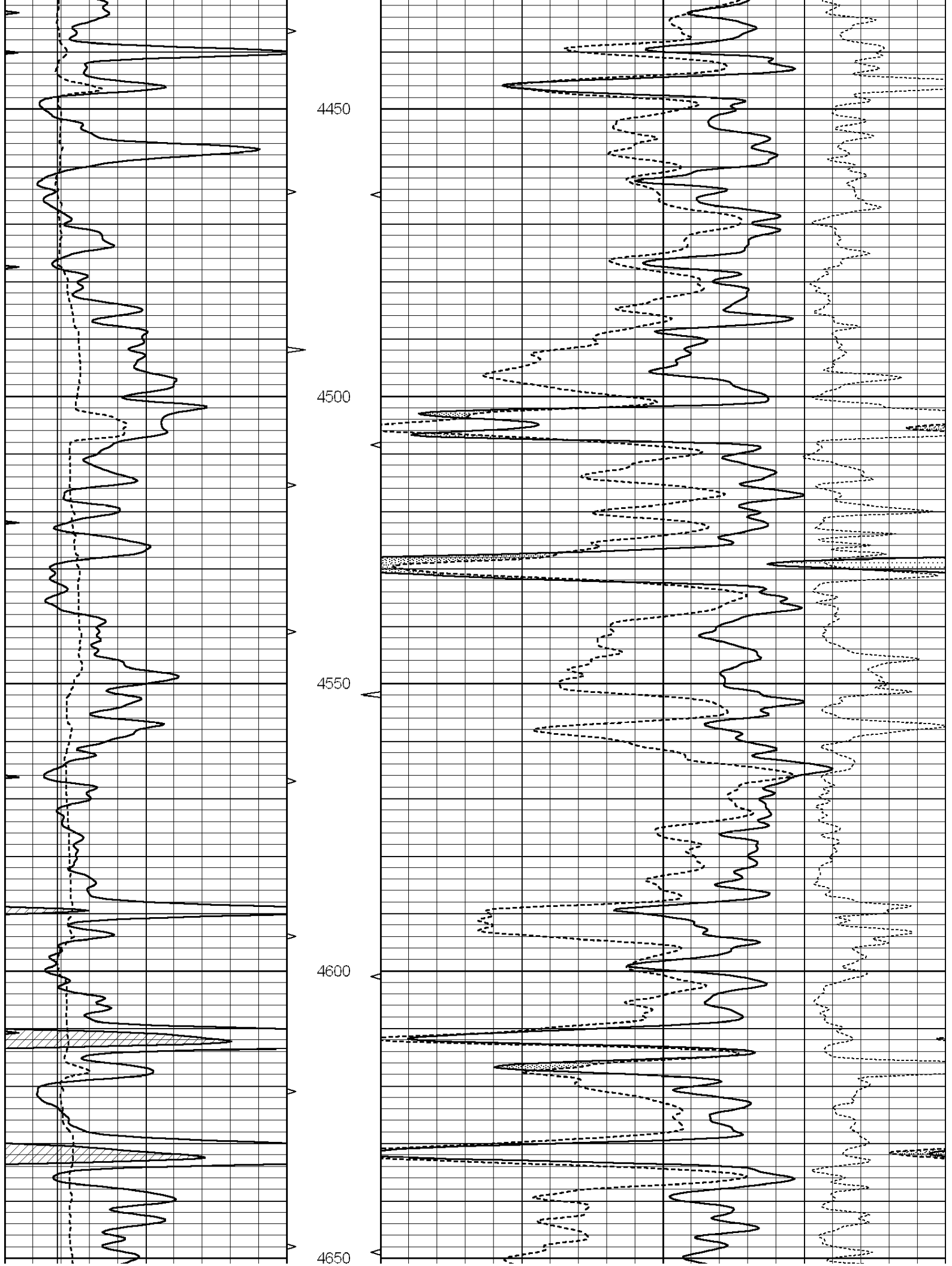
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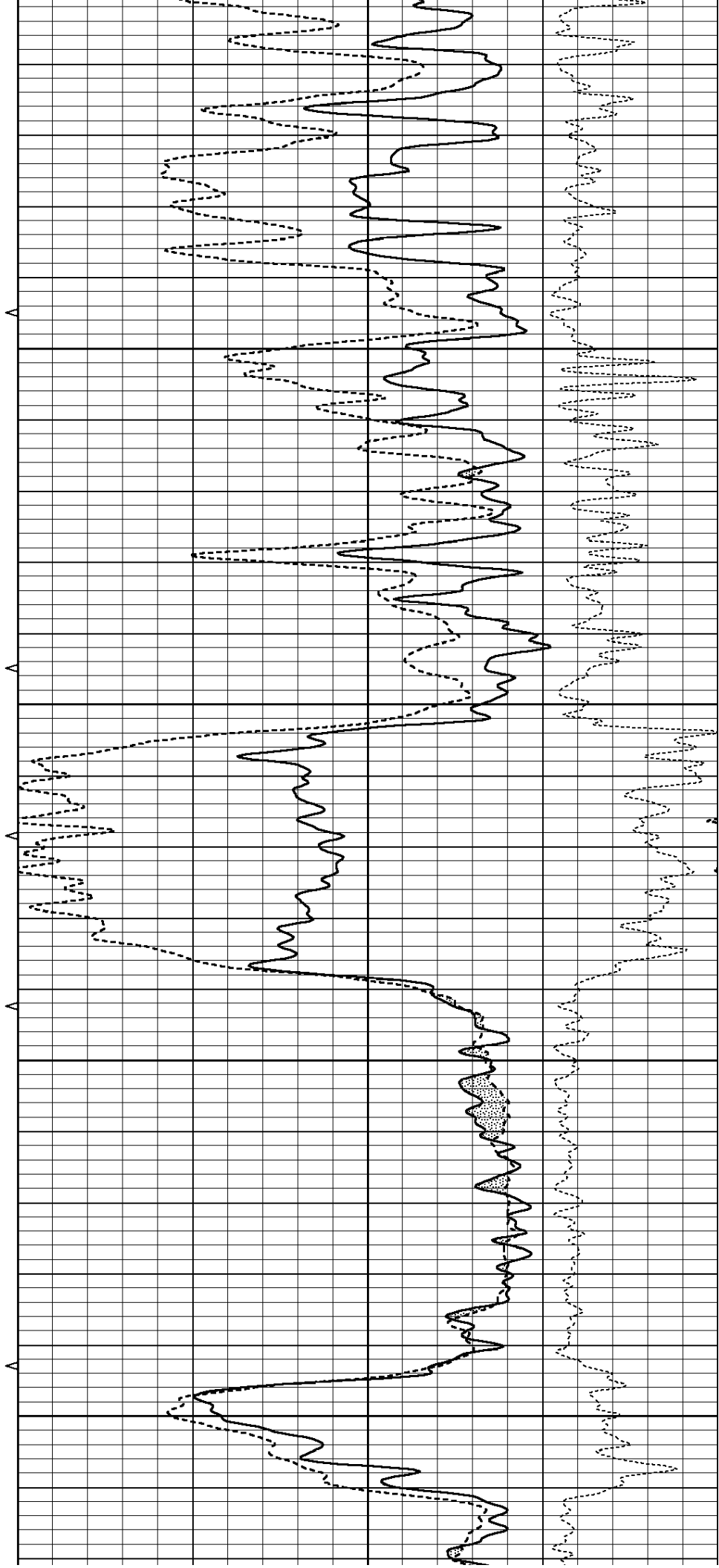
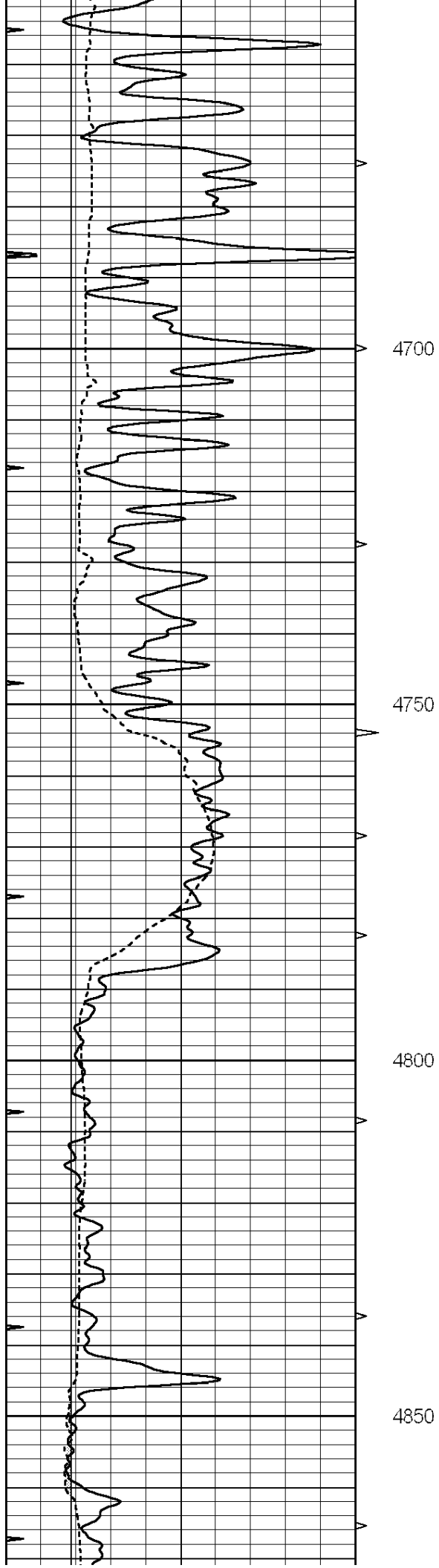
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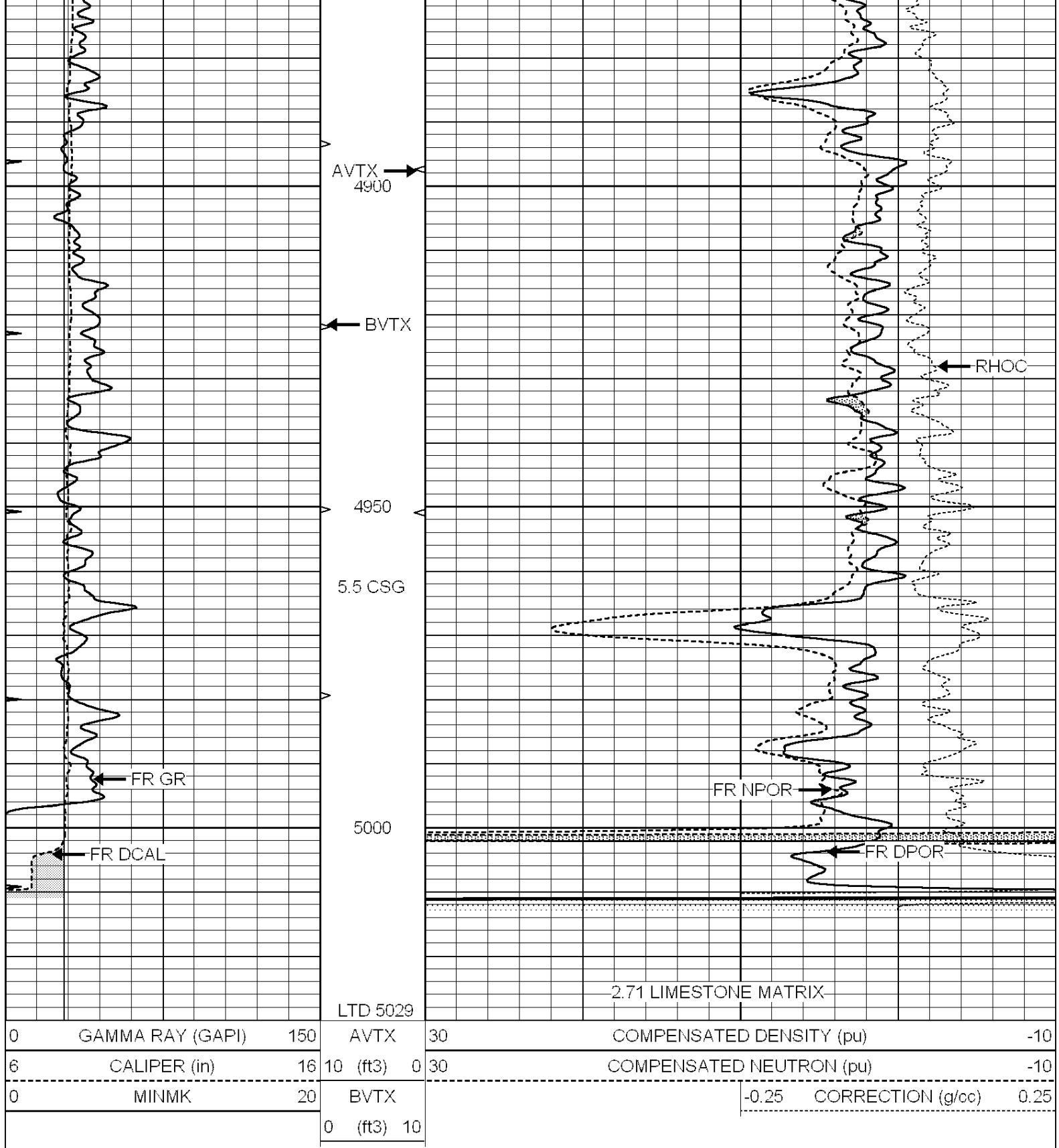
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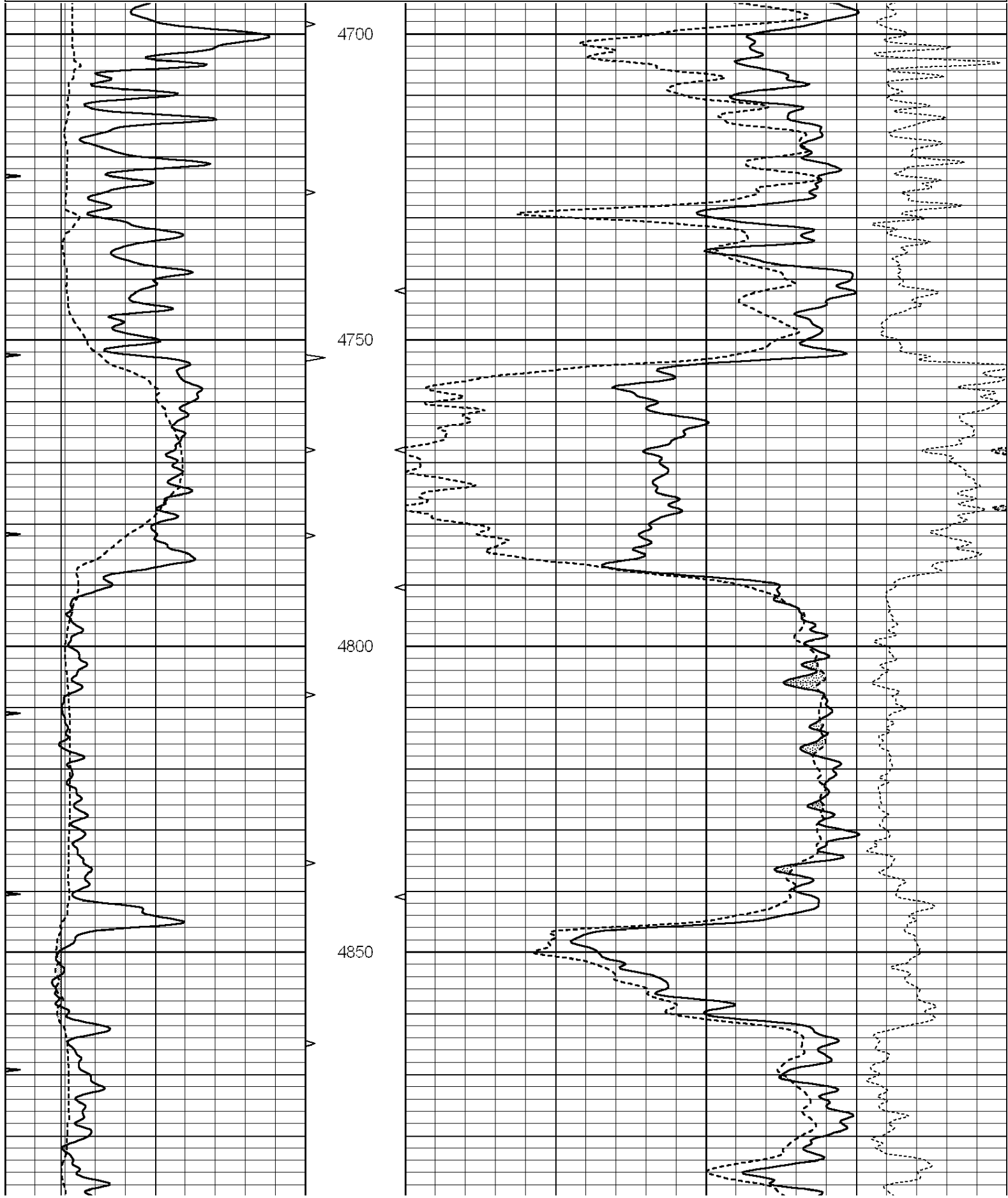


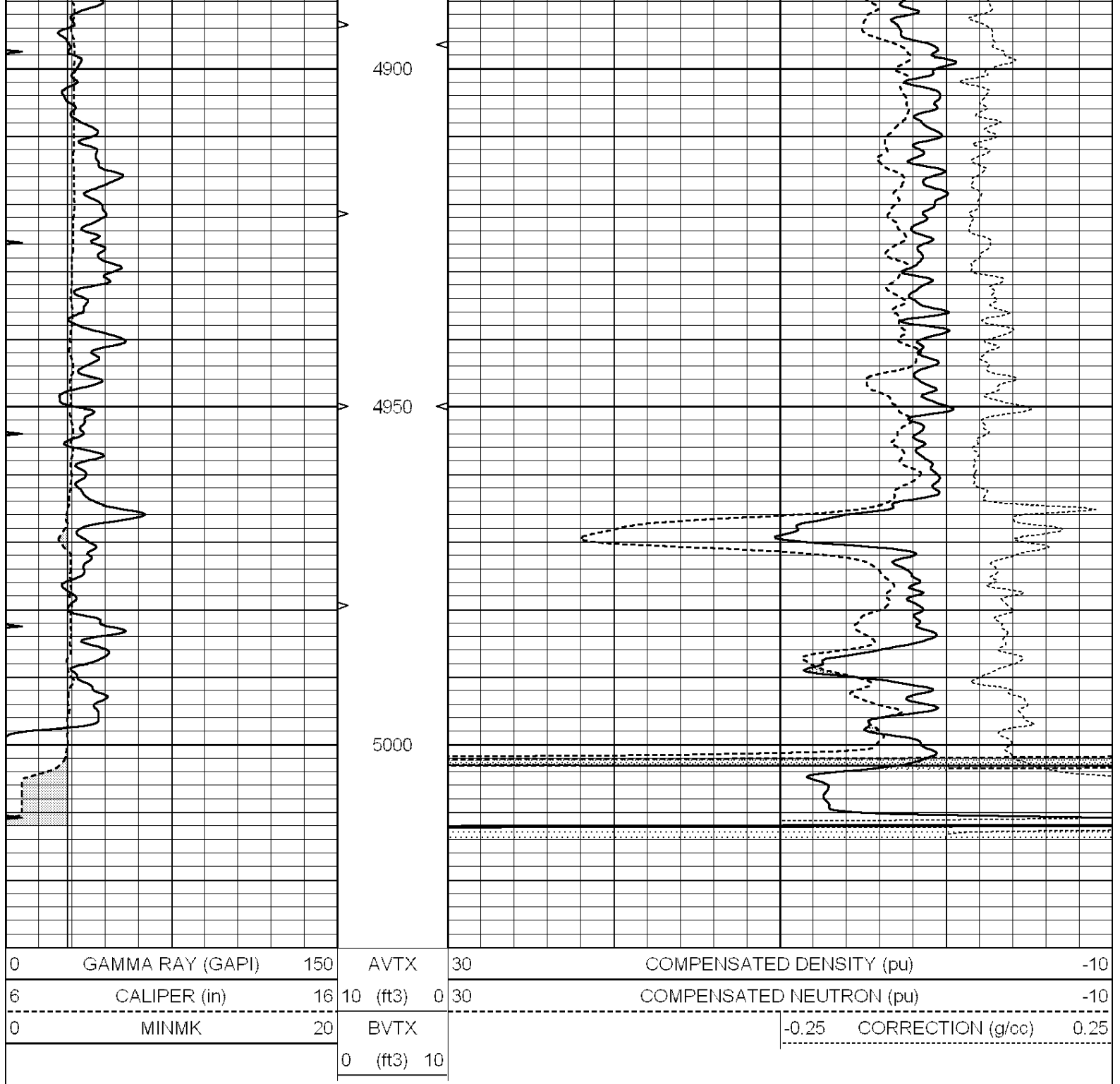
NABORS
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SERVICES CO.

REPEAT SECTION

Database File: 009976.db
Dataset Pathname: pass2.1
Presentation Format: _den_neu
Dataset Creation: Wed Oct 17 14:36:57 2012 by Calc Open-Cased 090629

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			





Calibration Report						
Database File:		009976.db				
Dataset Pathname:		pass3.1				
Dataset Creation:		Wed Oct 17 15:28:23 2012 by Calc Open-Cased 090629				
Dual Induction Calibration Report						
Serial-Model:		PROBE8-DILG				
Surface Cal Performed:		Fri Aug 01 06:33:19 2008				
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	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
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		

Compensated Density Calibration Report

Serial-Model:	GEAR4-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Mon Mar 19 19:07:19 2012

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