



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
PE/LOG**

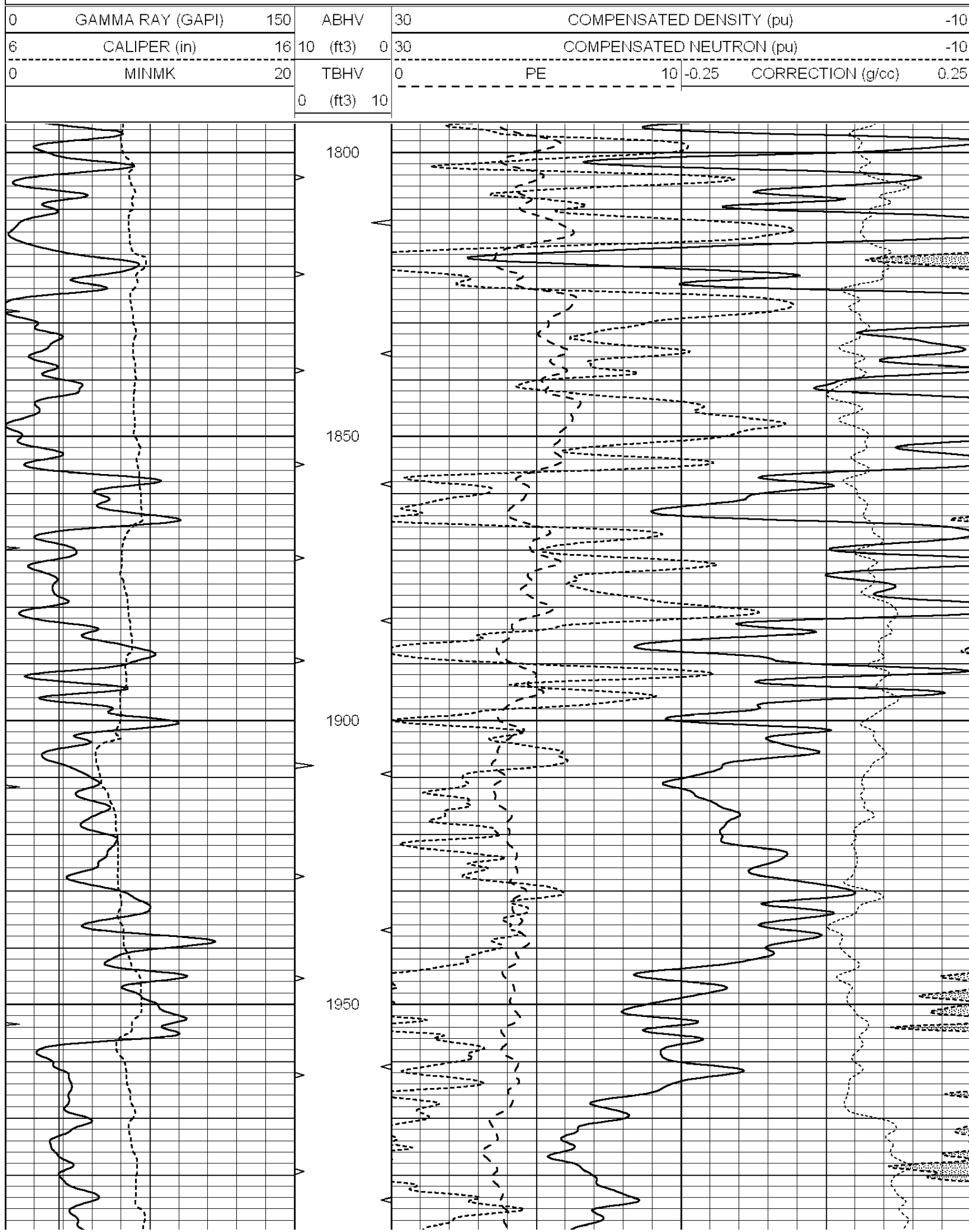
Company	MESSENGER PETROLEUM, INC.		
Well	THOM NO. 1		
Field	CHITWOOD		
County	PRATT	State	KANSAS
Location:	API # : 15-151-22403-00-00		Other Services DIL MEL
SEC 27 TWP 28S RGE 12W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1864
Log Measured From	KELLY BUSHING 9' A.G.L.	K.B.	1873
Drilling Measured From	KELLY BUSHING	D.F.	1871
		G.L.	1864
Date	12-15-2012		
Run Number	TVMO		
Depth Driller	4594		
Depth Logger	4592		
Bottom Logged Interval	4568		
Top Log Interval	1800		
Casing Driller	276		
Casing Logger			
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 44		
pH / Fluid Loss	8.5/10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.75@68F		
Rmf @ Meas. Temp	.6@68F		
Rmc @ Meas. Temp	.9@68F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.42@121		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	11:30 A.M.		
Maximum Recorded Temperature	121		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	MIKE GARRISON		
Witnessed By	FRANK MIZE		

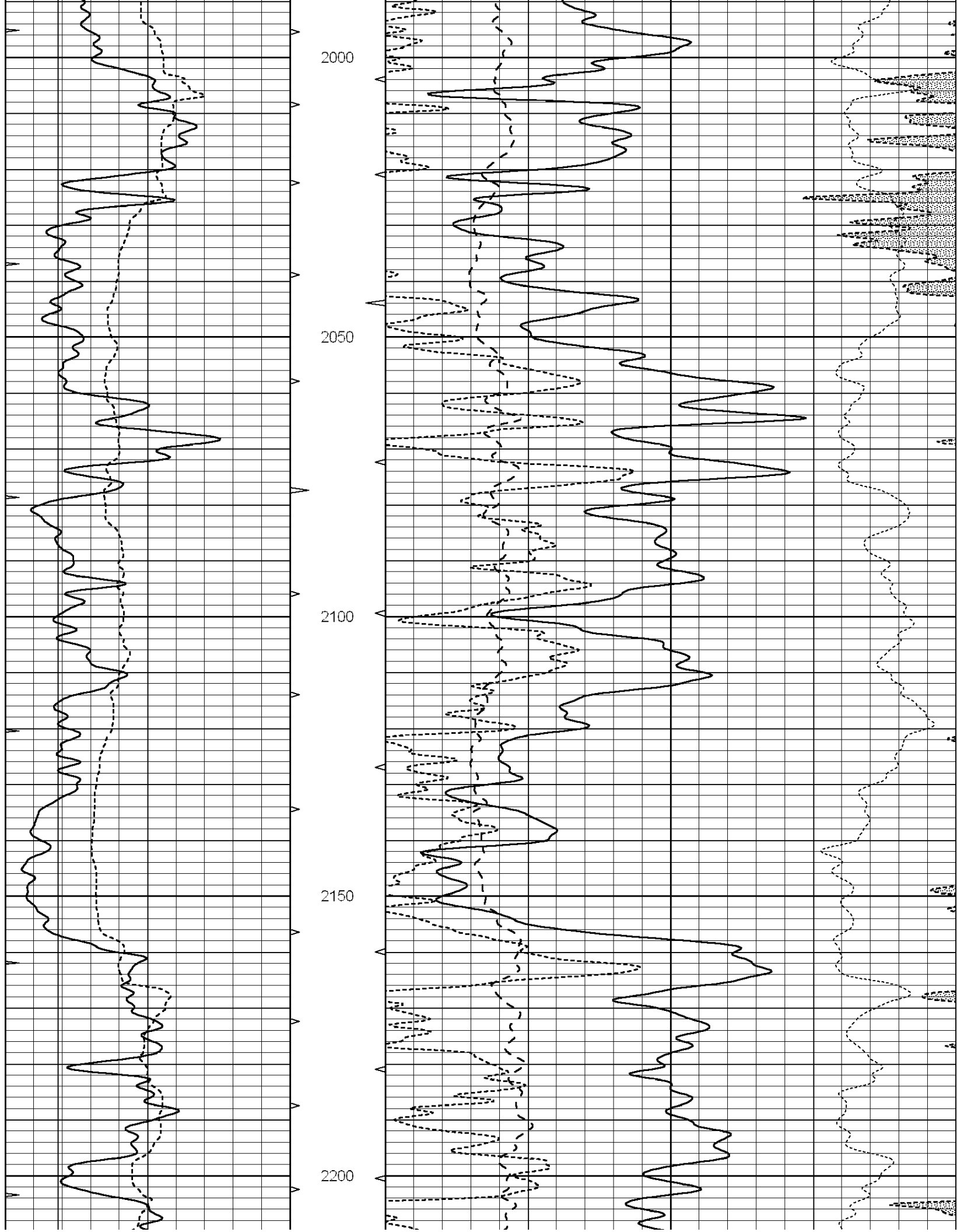
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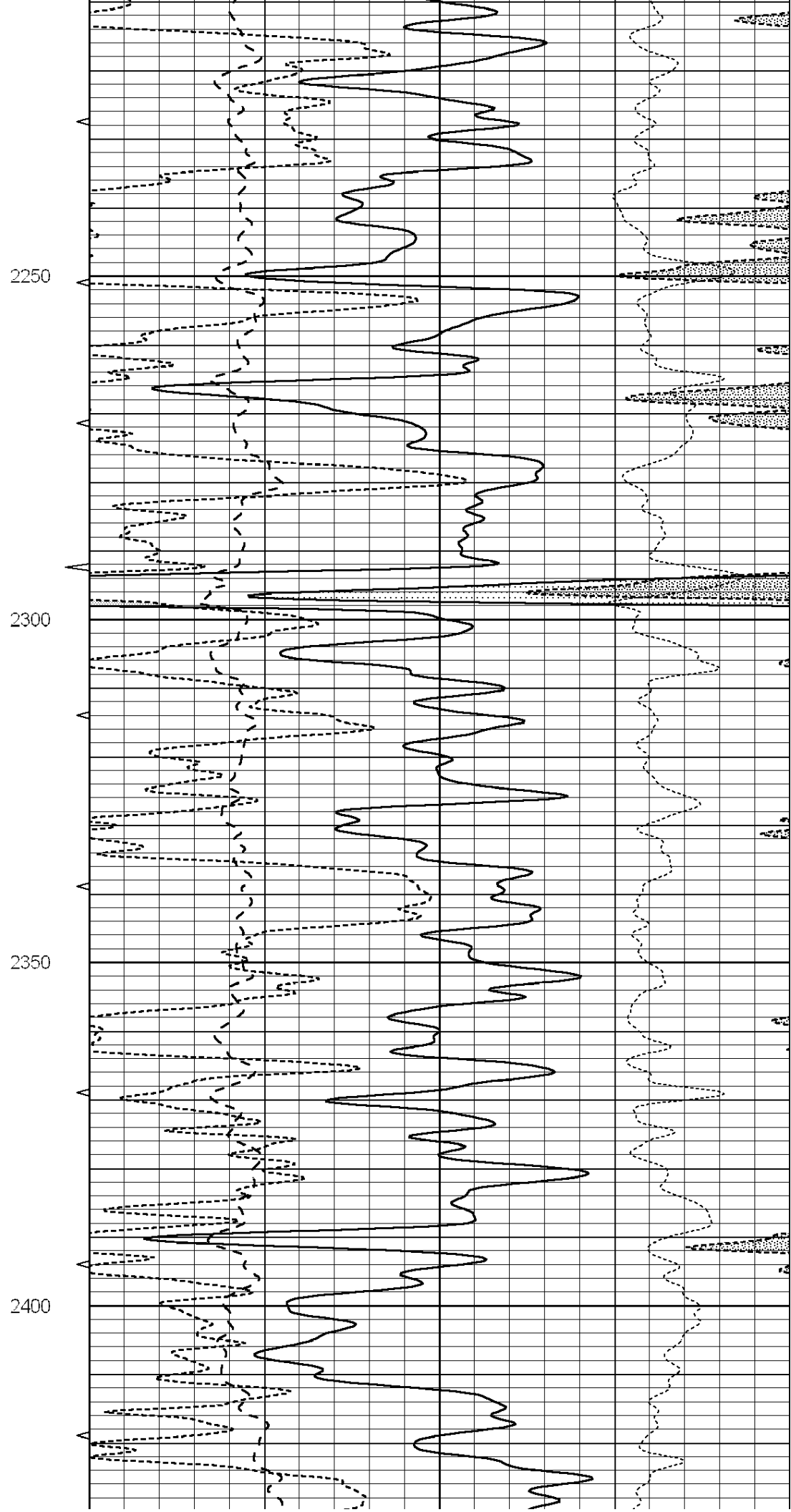
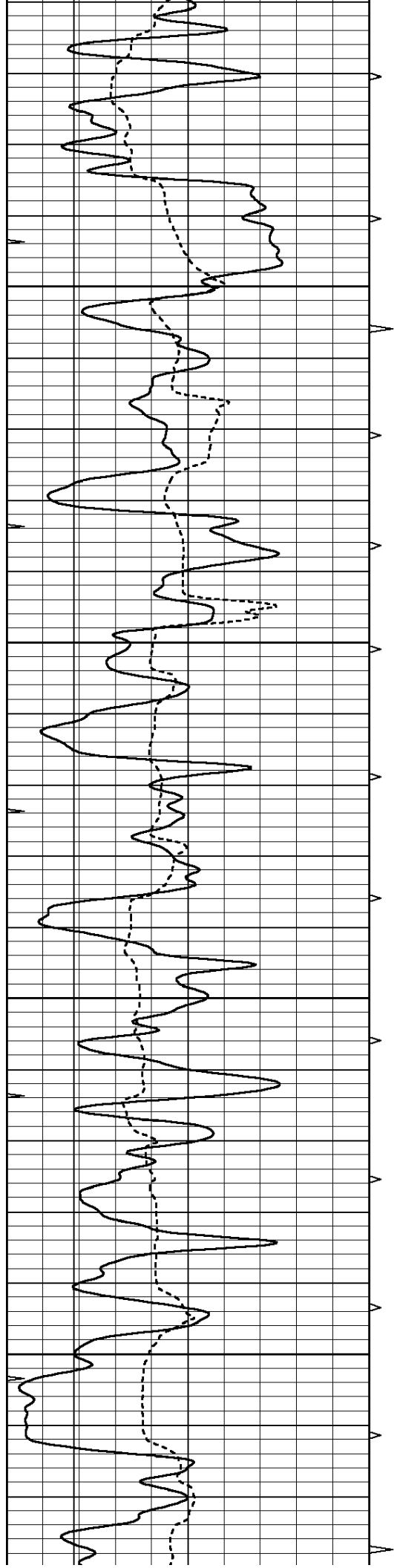
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

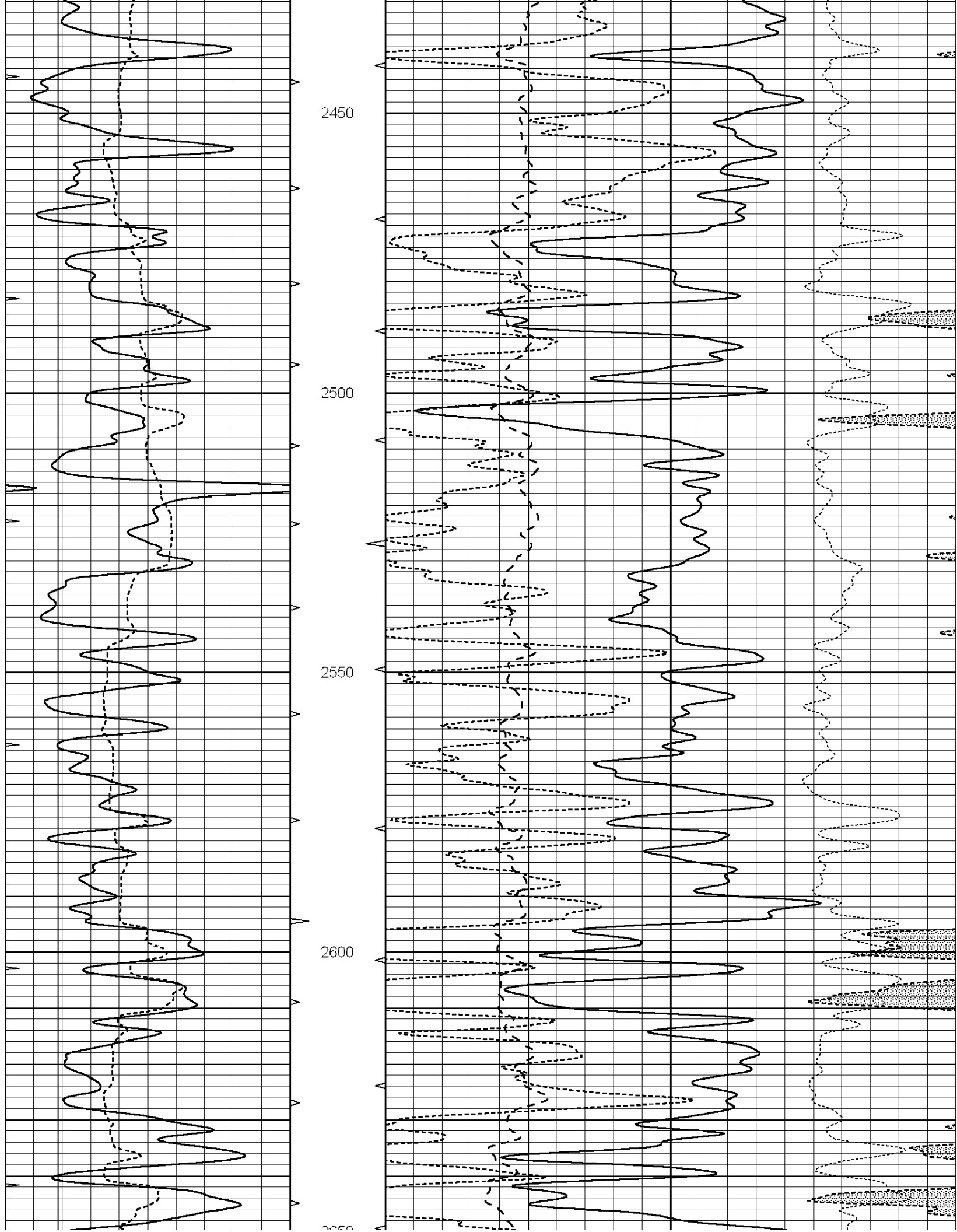
Comments

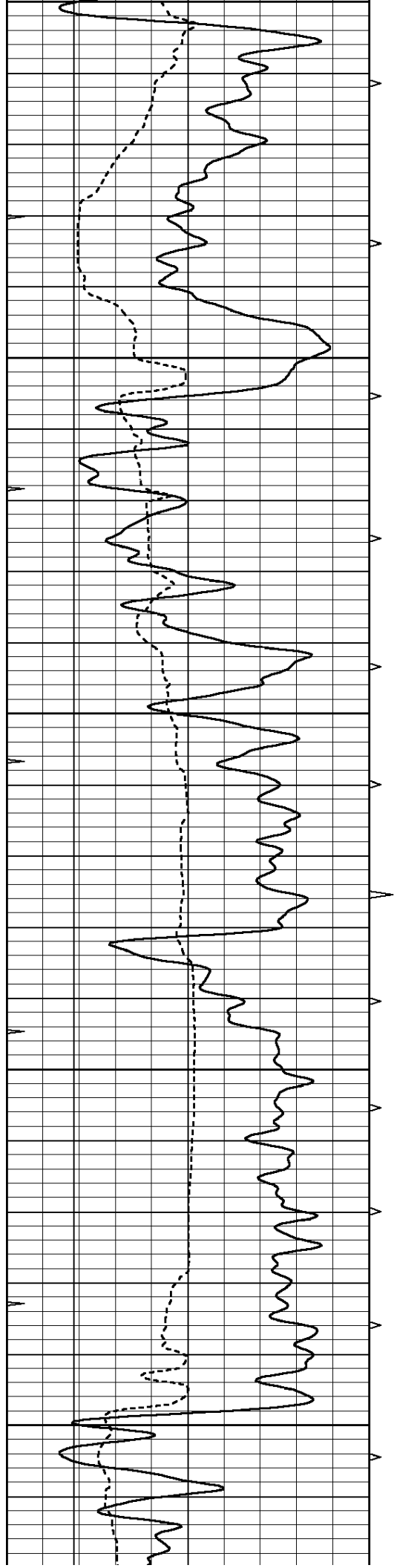
NABORS COMPLETION & PRODUCTION CO.
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS:PRATT KS, 5 EAST, 4 SOUTH, 1/4 WEST ,SOUTH INTO











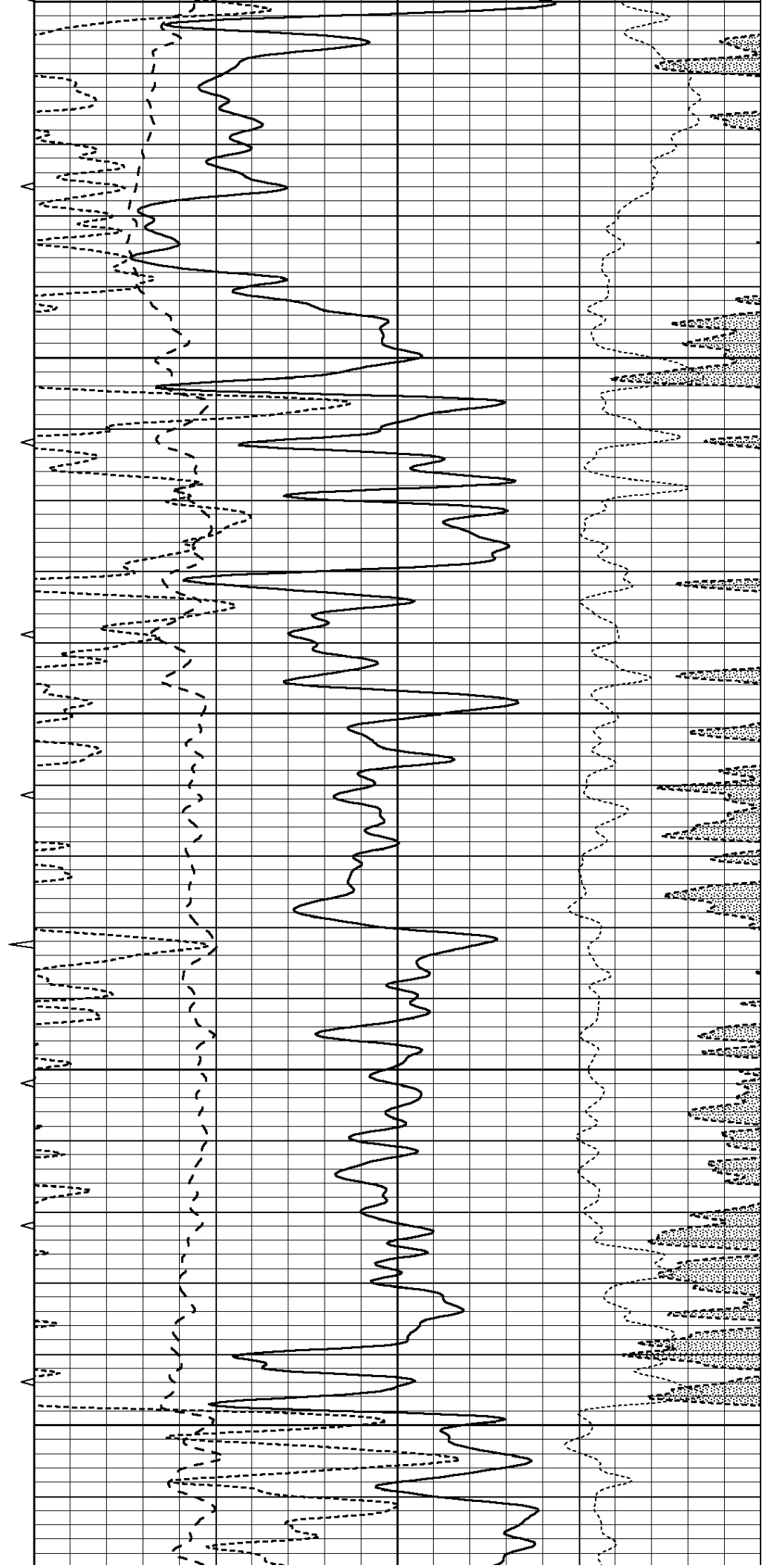
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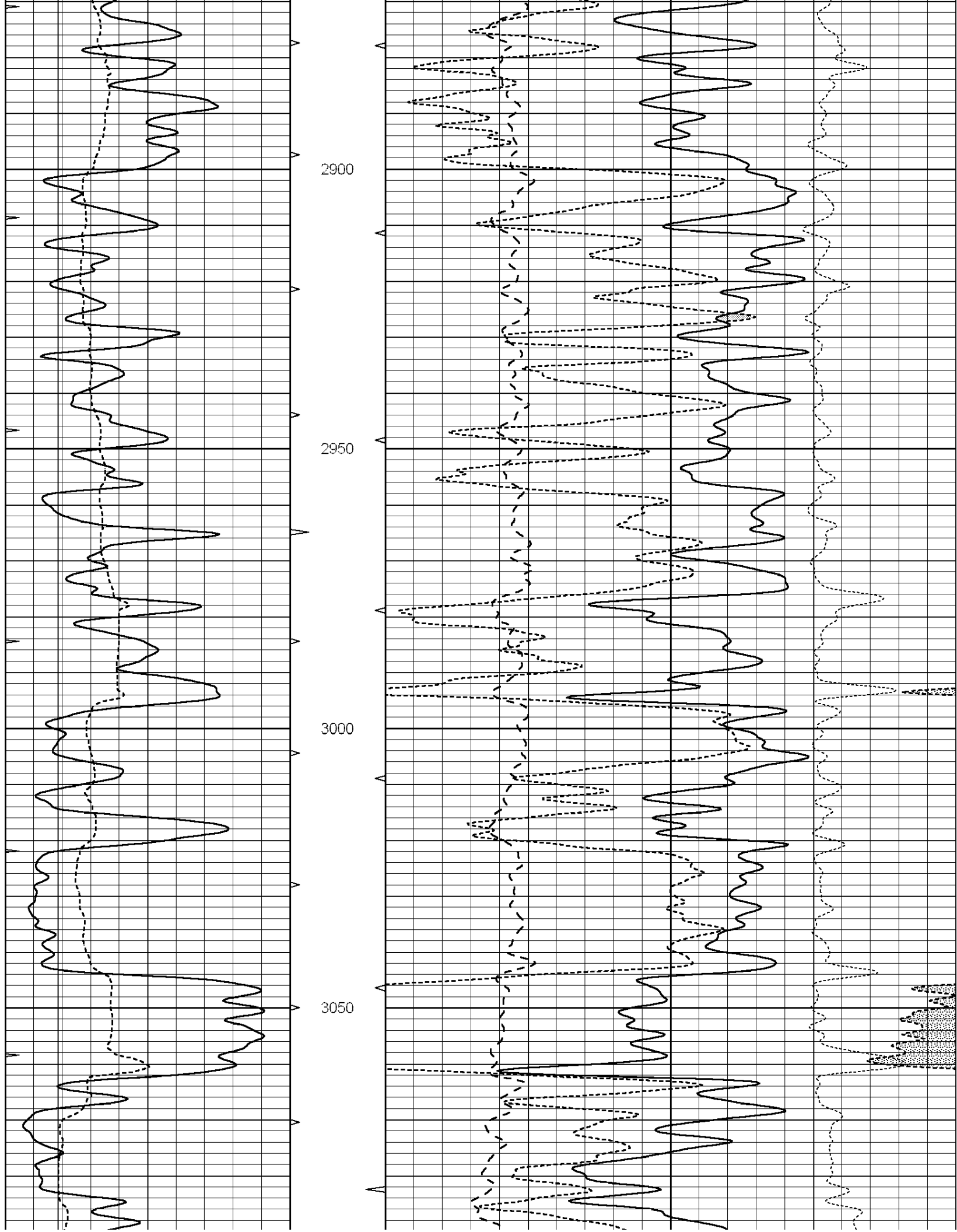
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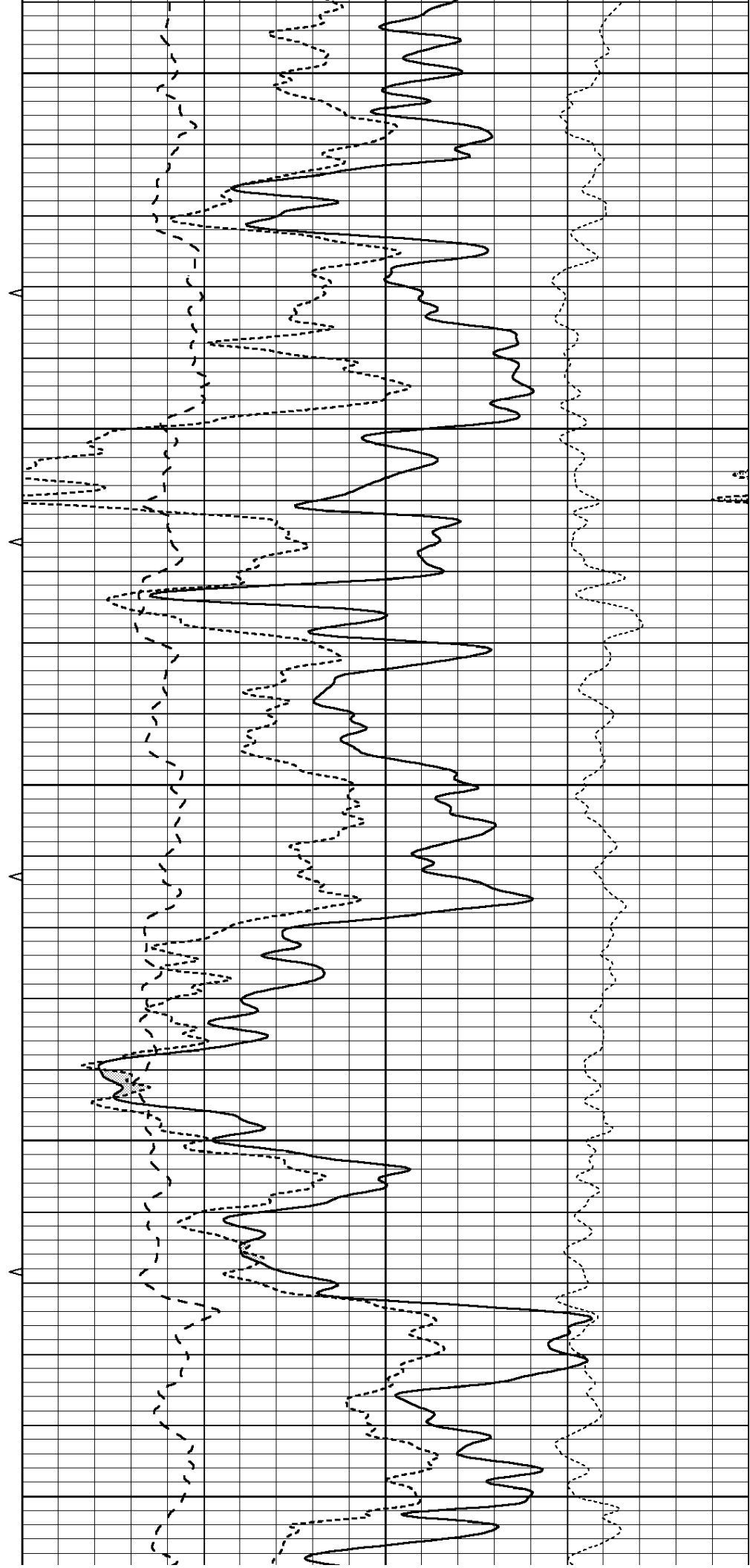
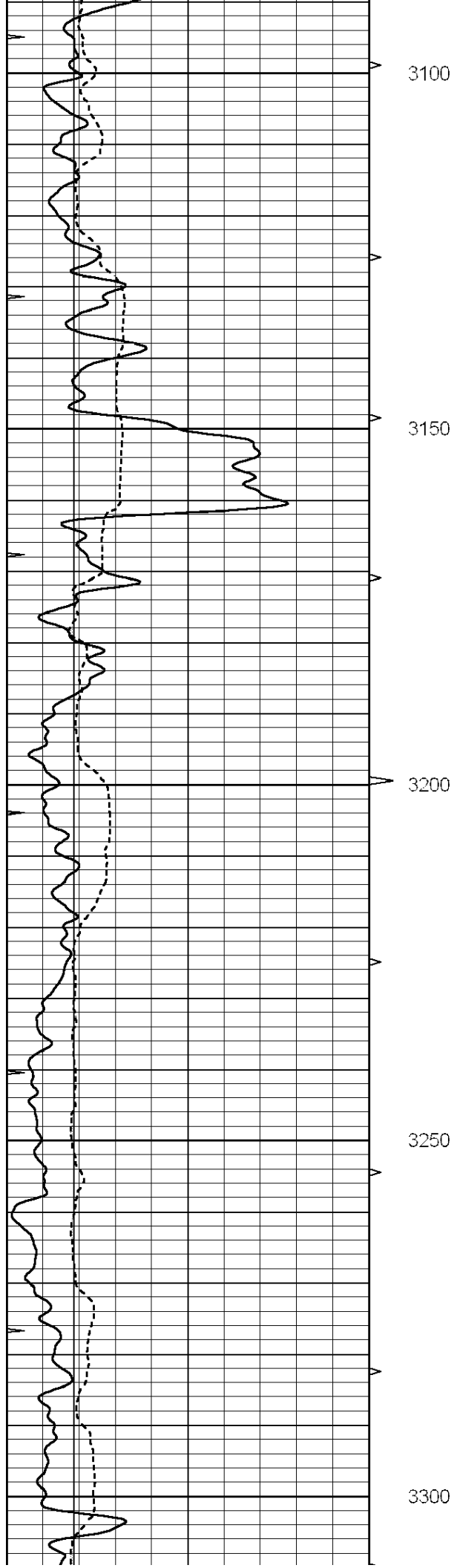
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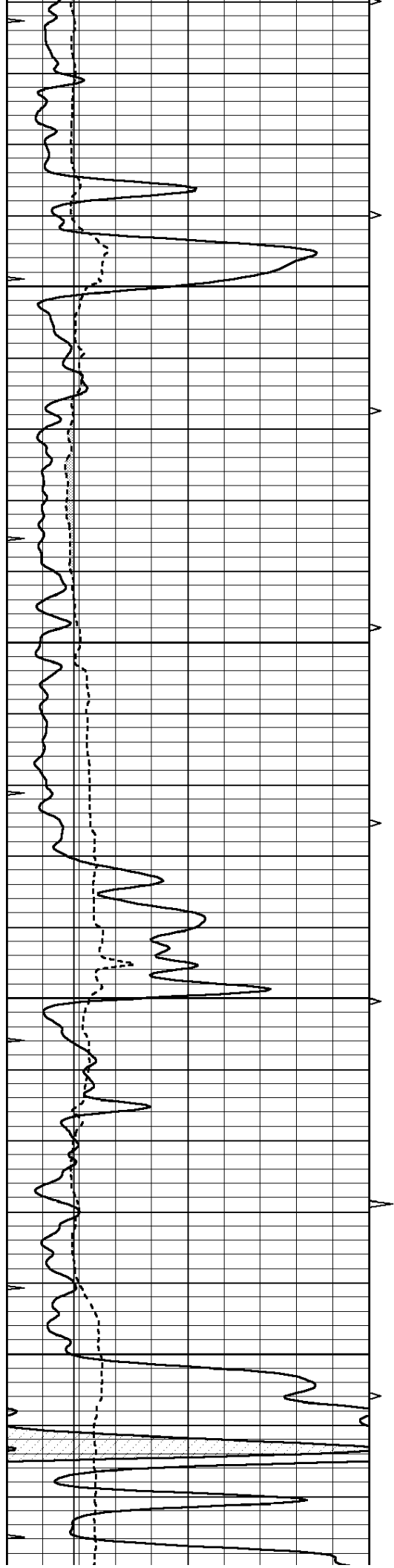
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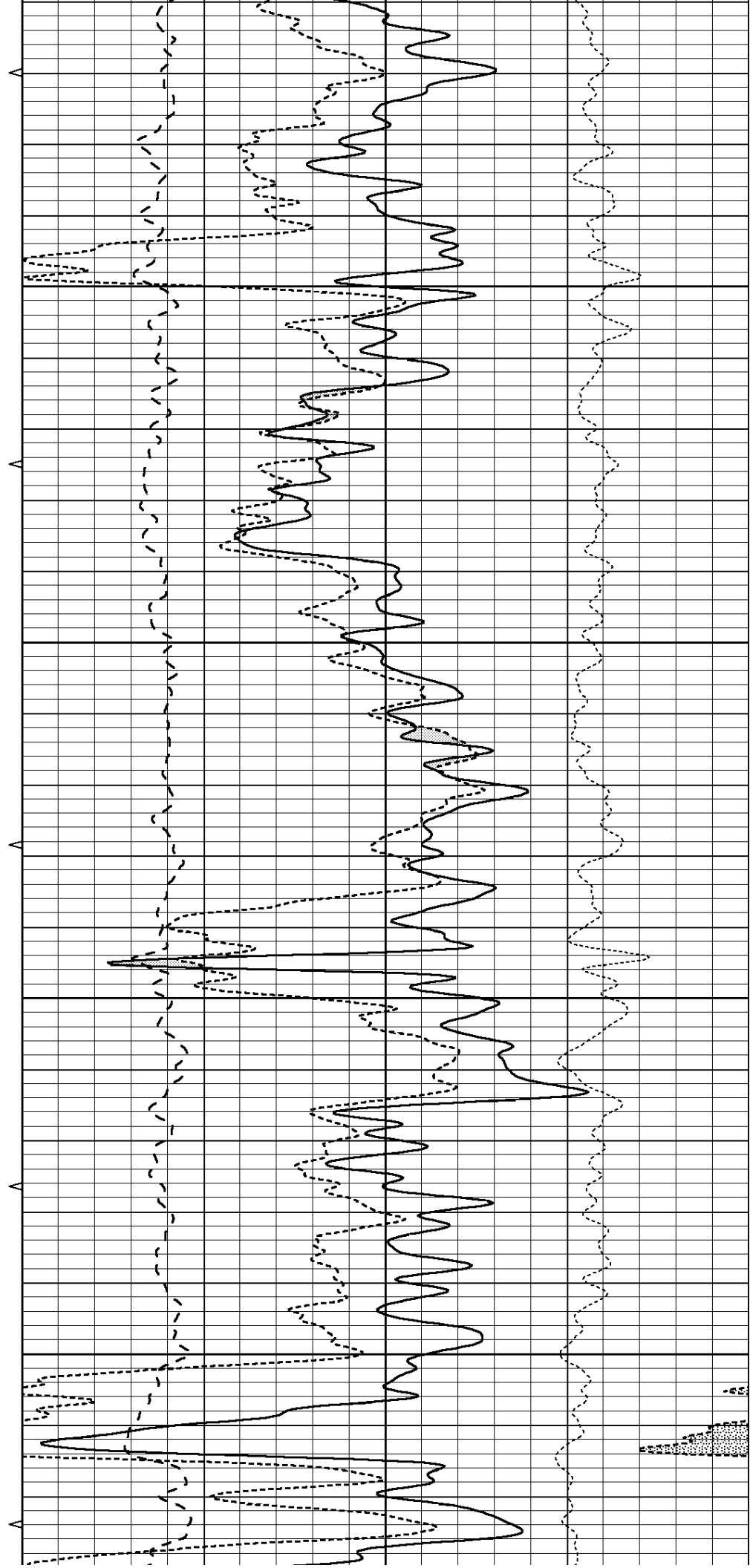


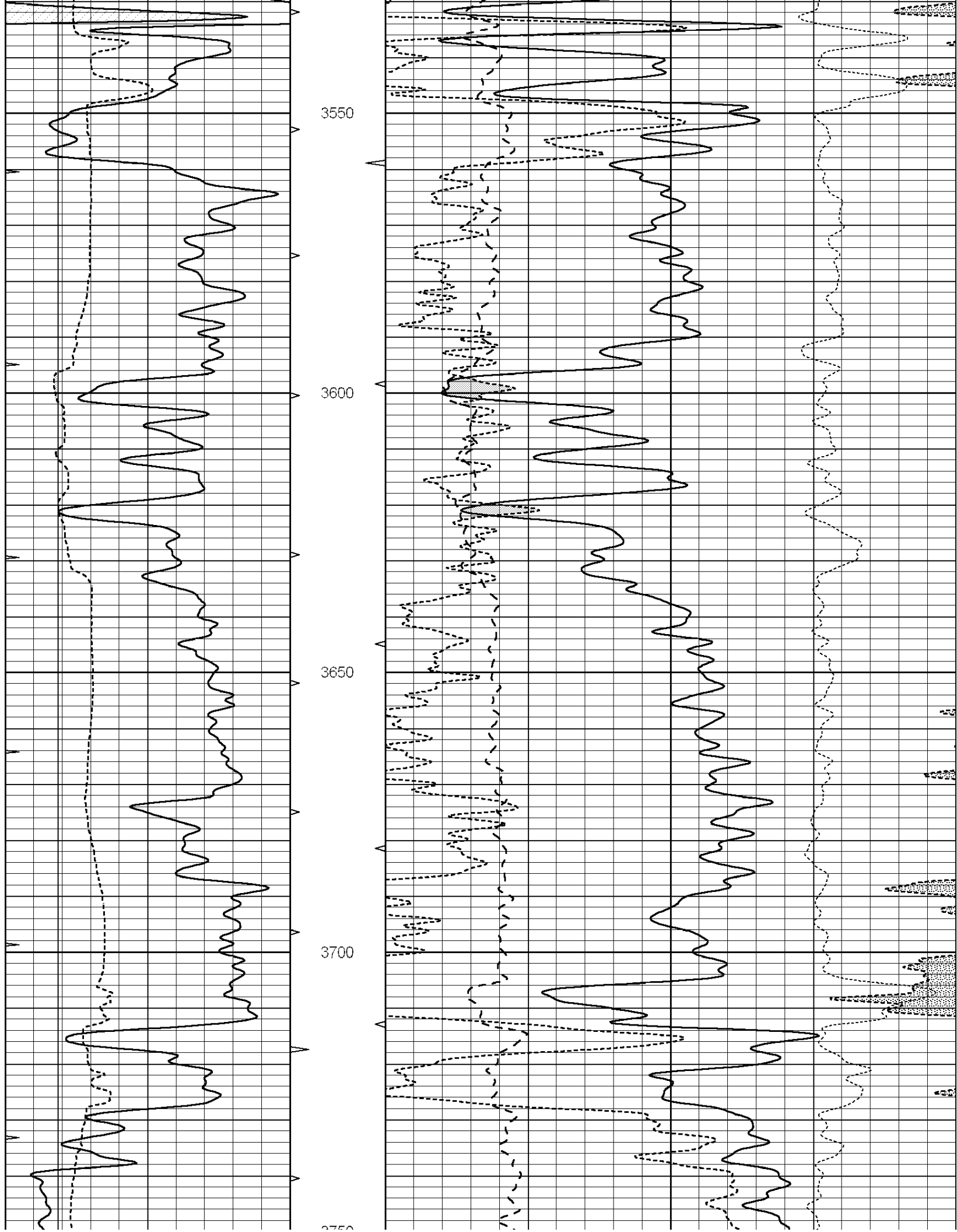
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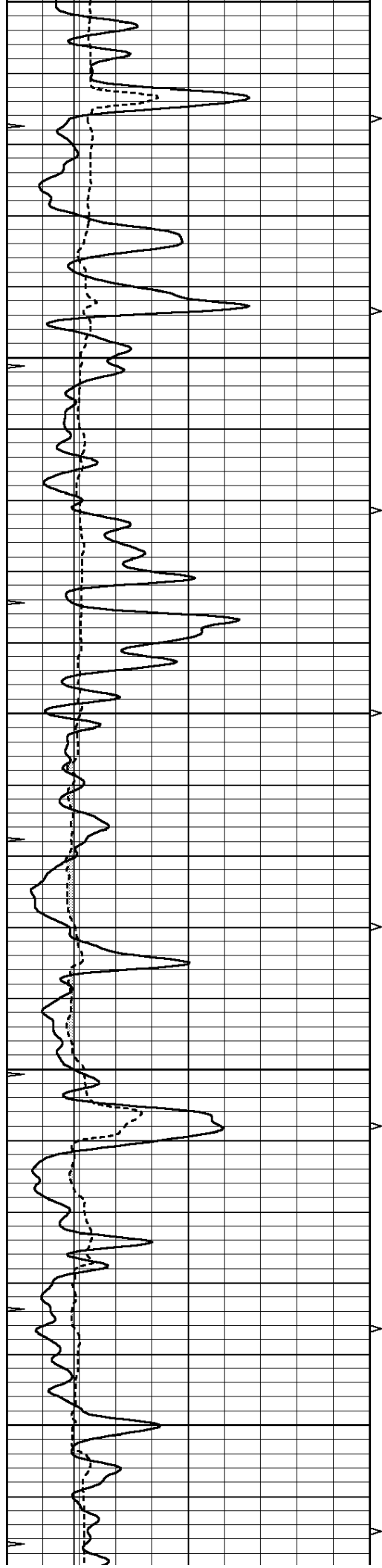
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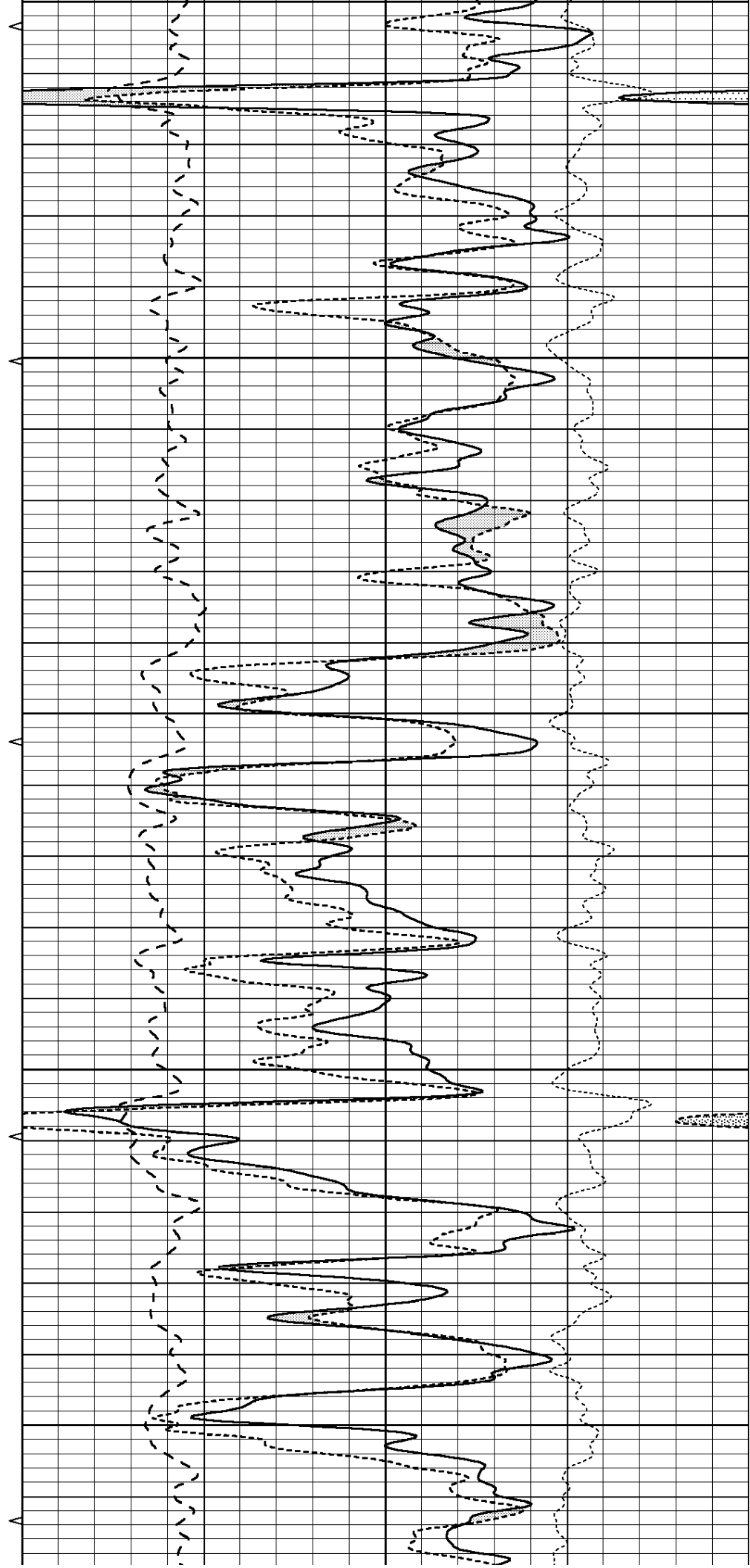
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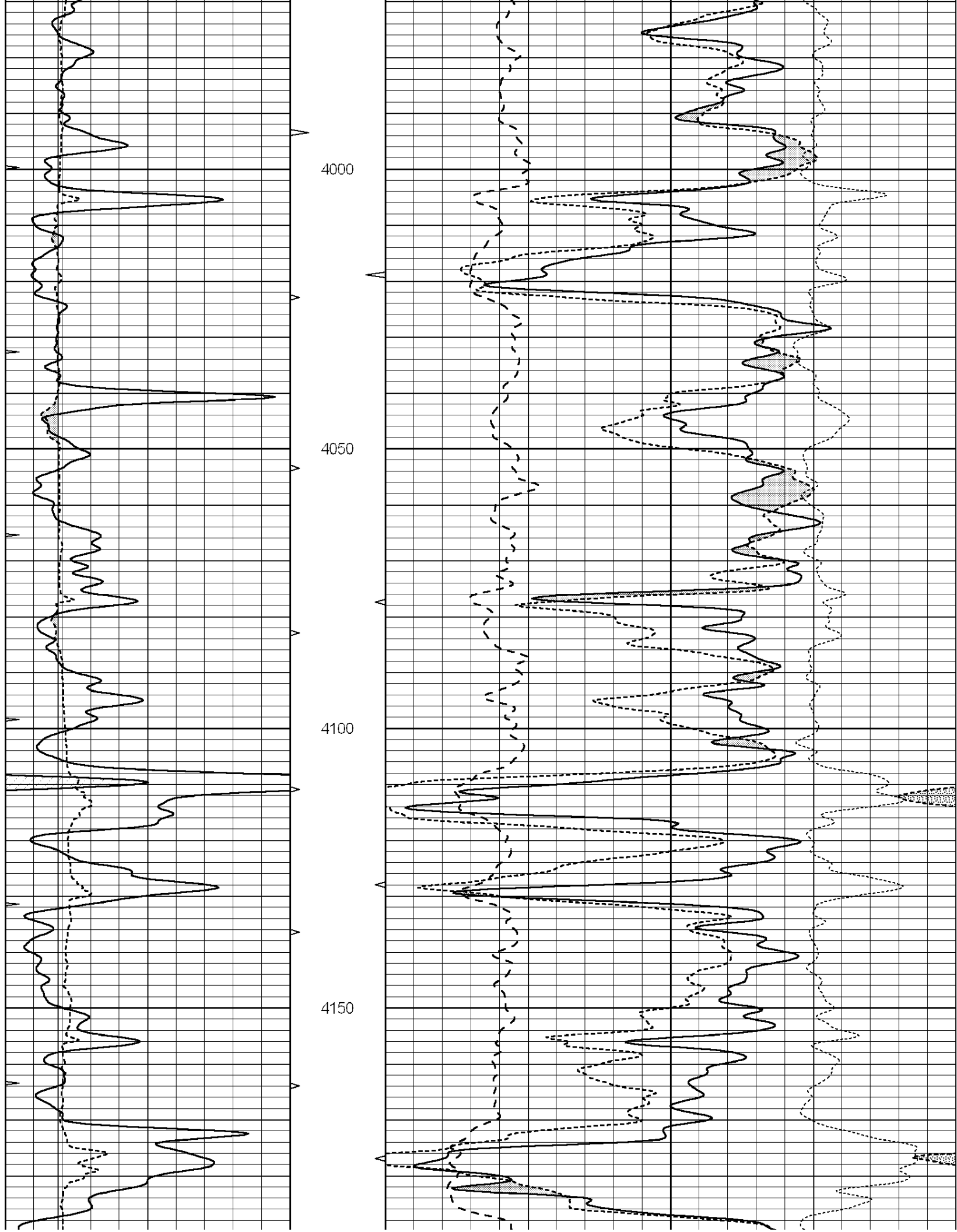
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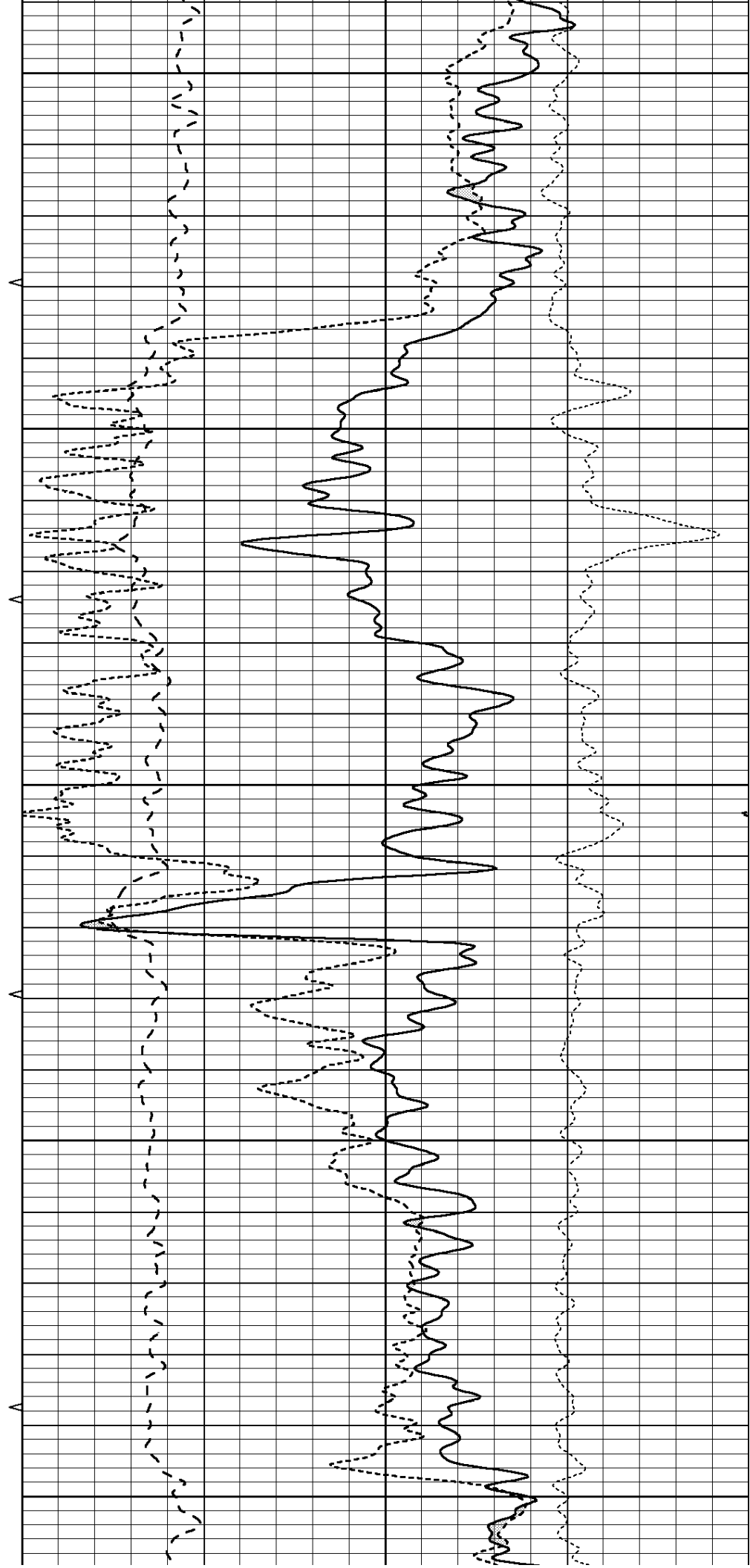
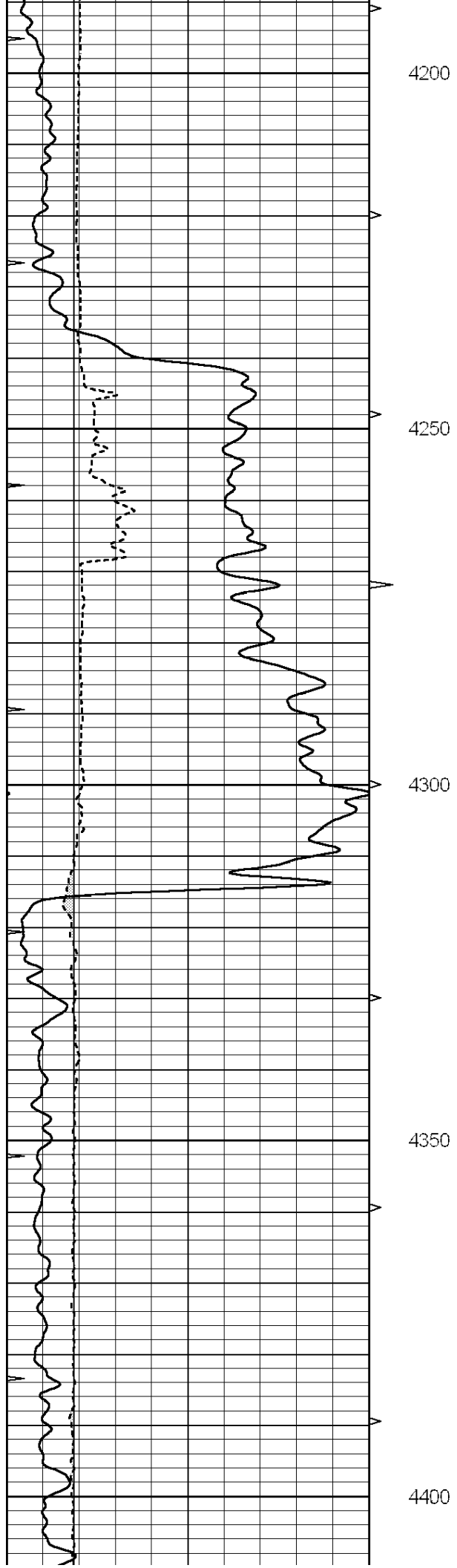
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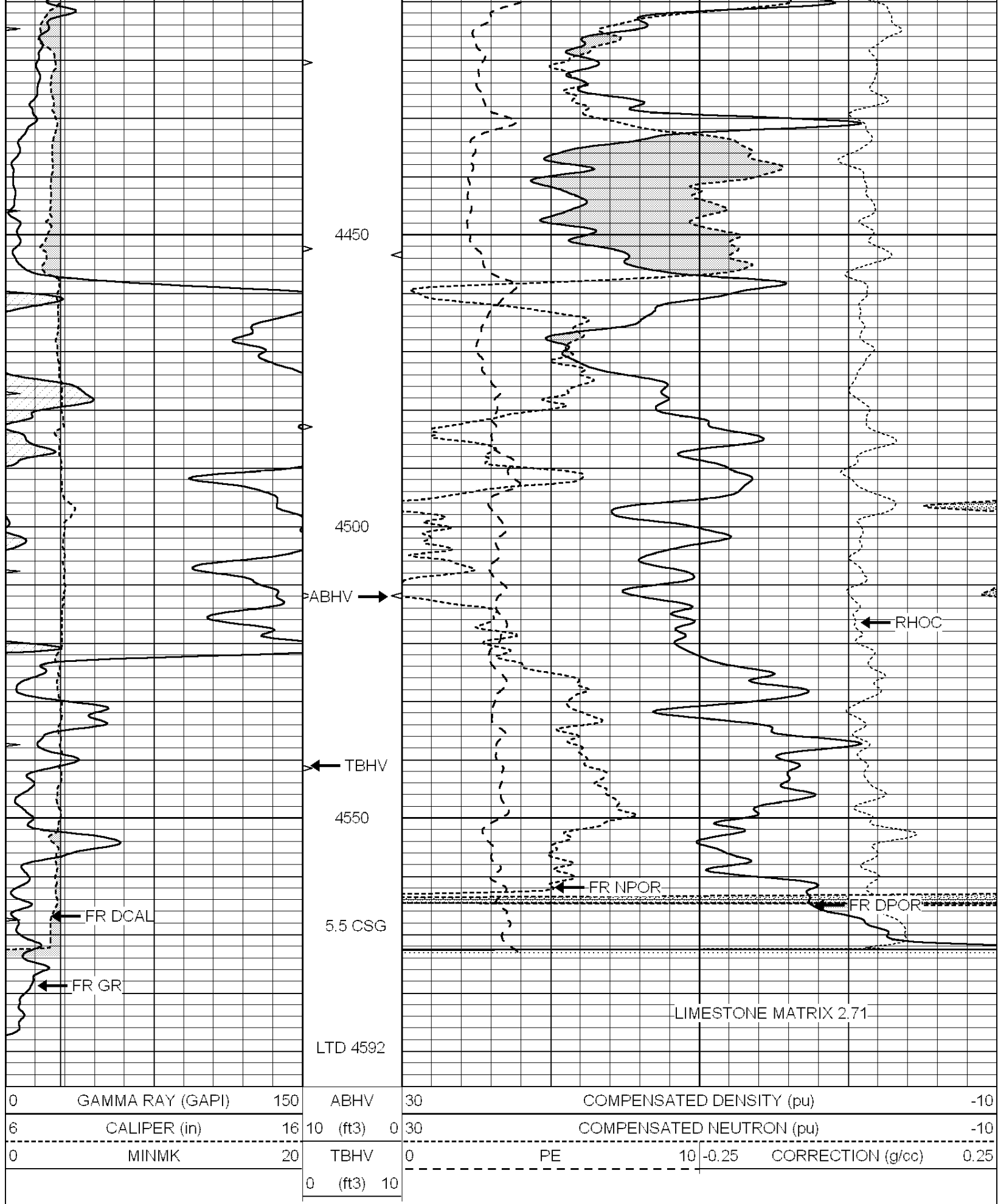
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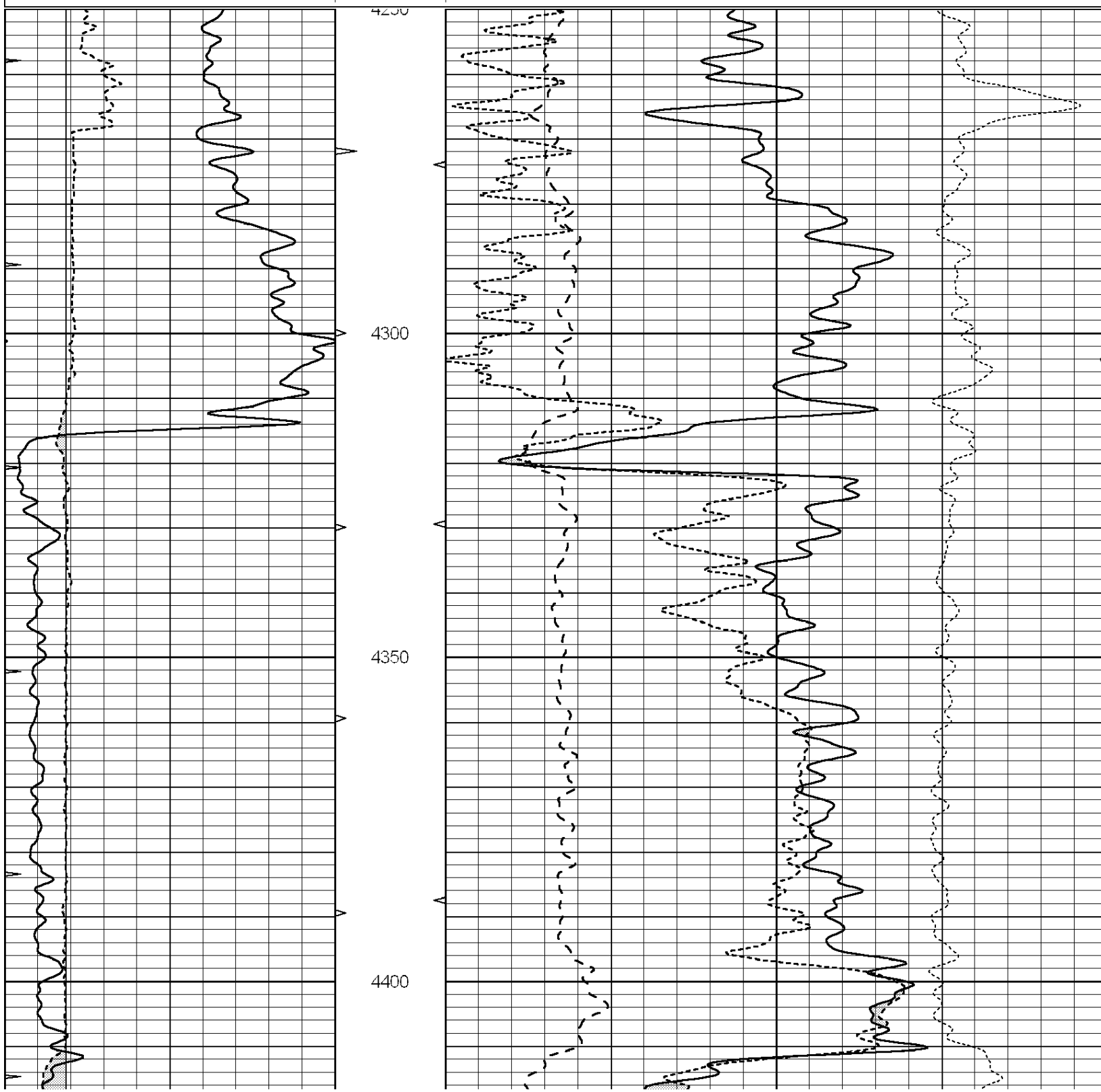


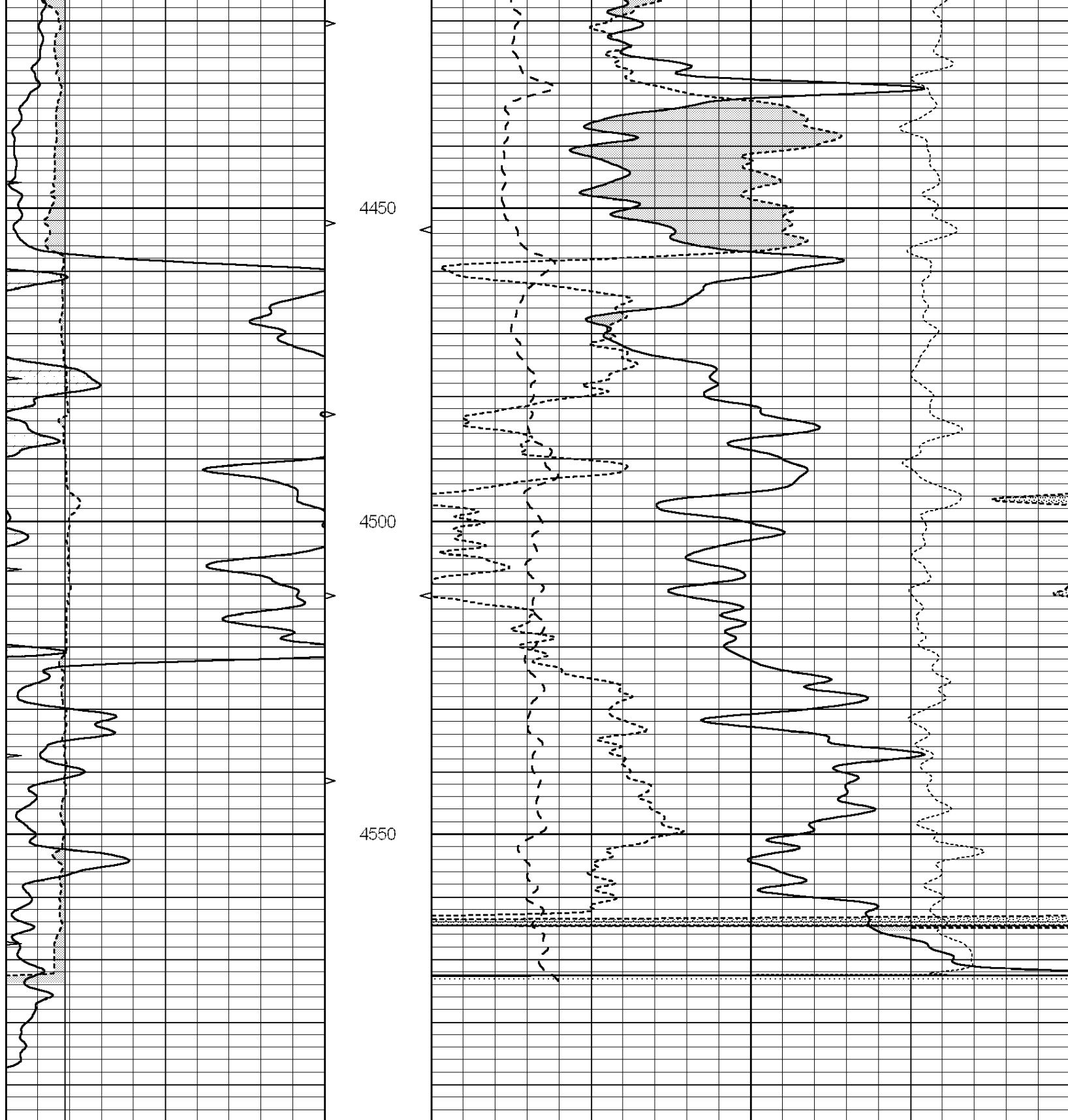




Database File: 010164dildnpe.db
Dataset Pathname: pass7.15
Presentation Format: ldt_neu
Dataset Creation: Sat Dec 15 15:07:37 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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





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

Calibration Report

Database File: 010164dildnpe.db
 Dataset Pathname: pass8.1
 Dataset Creation: Sat Dec 15 16:10:16 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report								
Serial-Model: Performed:			DIL5-GEAR Thu Dec 13 16:41:19 2012					
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-13.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	490.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Litho Density Calibration Report					
Serial: 002		Model: PRB			
Performed Mon Apr 02 17:56:53 2012					
Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	872.3	7266.3	2292.6	7931.5	cps
Window 2	822.9	5957.5	1958.0	6389.6	cps
Window 3	670.4	3219.9	1211.9	3388.2	cps
Window 4	201.6	201.1	202.3	204.6	cps
Long Space	0.0	5134.6	1135.0	5566.6	cps
Short Space	1.1	994.2	674.4	1059.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.6	Rib Slope	: 1.020	Density/Spine Ratio	: 0.569
Spine Angle	: 75.6	Spine Slope	: 3.888	Spine Intercept	: -18.3

Caliper		
Low Ref	Readings 4.3	Reference 8.4
High Ref	6.1	14.0
	Gain: 3.0	Offset: -4.4

Compensated Neutron Calibration Report		
Serial Number:	NUE_2I	
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:	GR5	
Tool Model:	OPEN	
Performed:	Thu Dec 13 17:42:20 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps