



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	EDISON OPERATING CO., LLC.		
Well	BOX #1-30		
Field	WILDCAT		
County	SEWARD		
State	KANSAS		
Location:	API # : 15-175-22192		Other Services DIL SONIC/MEL
SEC 30 TWP 34SW/RGE 32W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2766
Log Measured From	KELLY BUSHING 12' A.G.L.	K.B.	2778
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L.	2766
Date	9-24-11		
Run Number	ONE		
Depth Driller	6500		
Depth Logger	6496		
Bottom Logged Interval	6472		
Top Log Interval	4300		
Casing Driller	1611		
Casing Logger	1611		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 76		
pH / Fluid Loss	9.5 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.20 @ 68F		
Rmf @ Meas. Temp	0.90 @ 68F		
Rmc @ Meas. Temp	1.44 @ 68F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.580 @ 140F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:45 P.M.		
Maximum Recorded Temperature	140F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MACKLIN ARMSTRONG		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: LIBERAL, AT #83 & #54 JCT., 3 NE TO RD. #M, 1S TO RD. #6, 1E, 1/2S, W INTO.

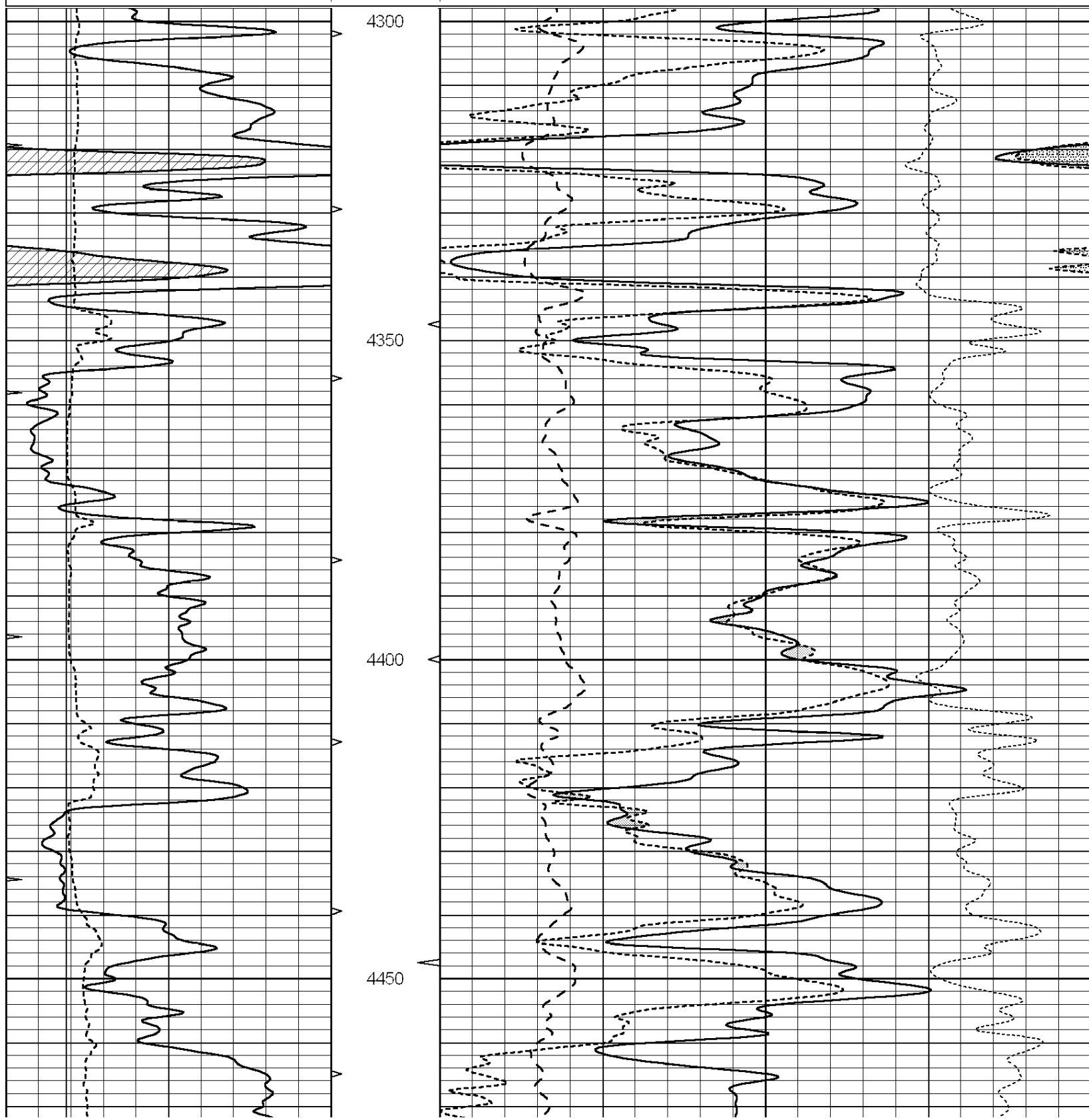


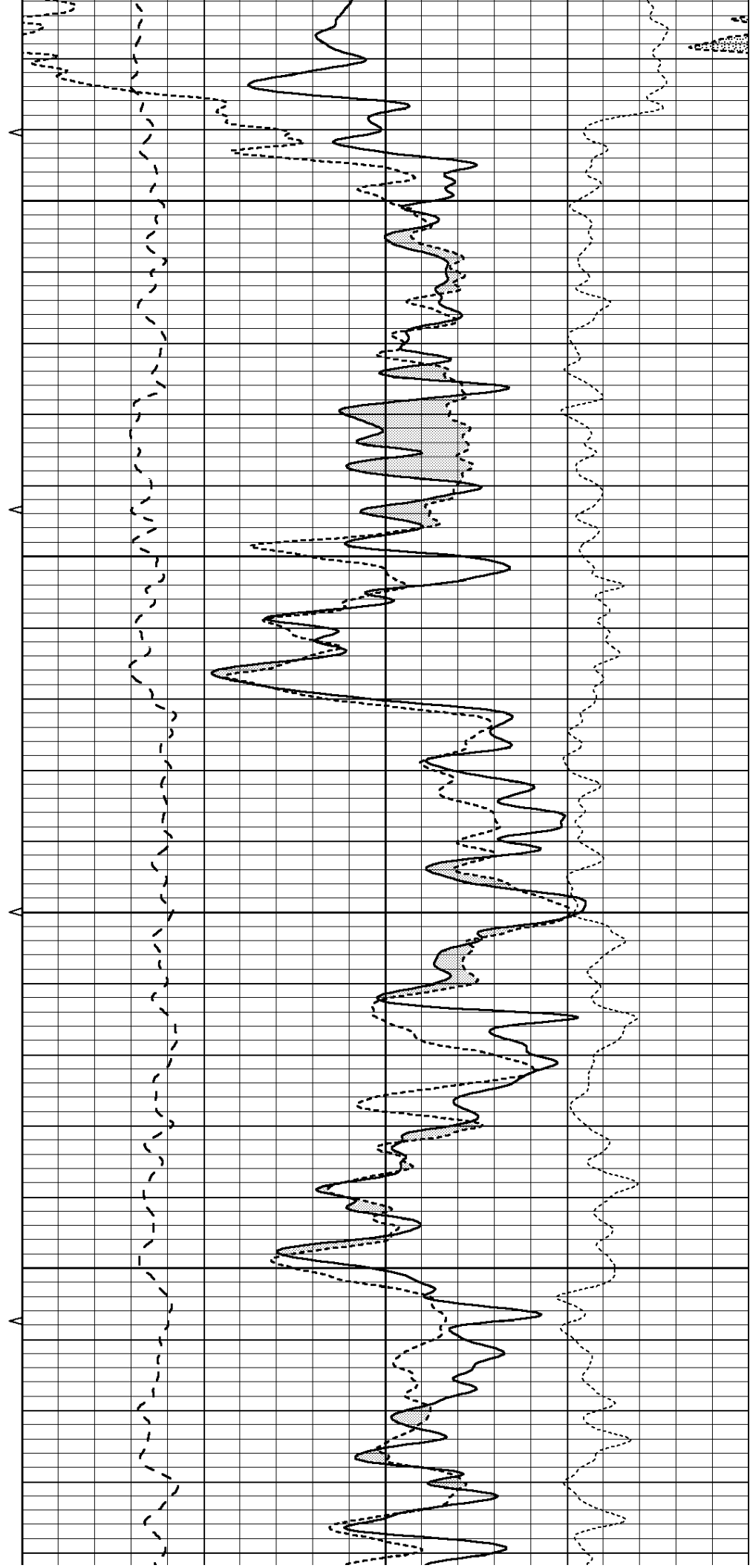
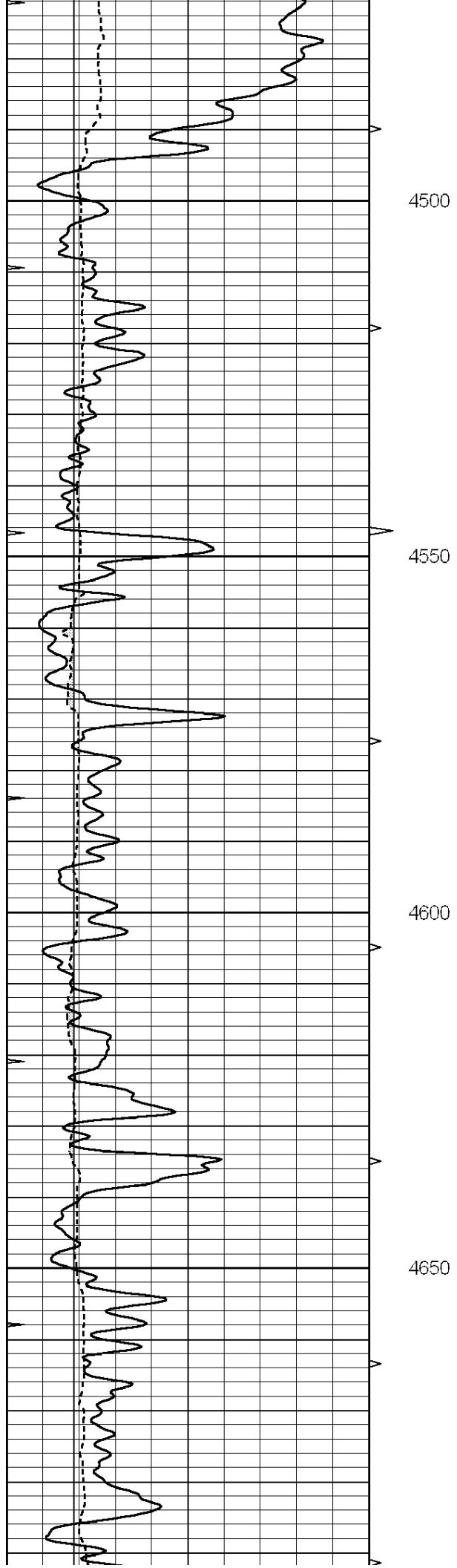
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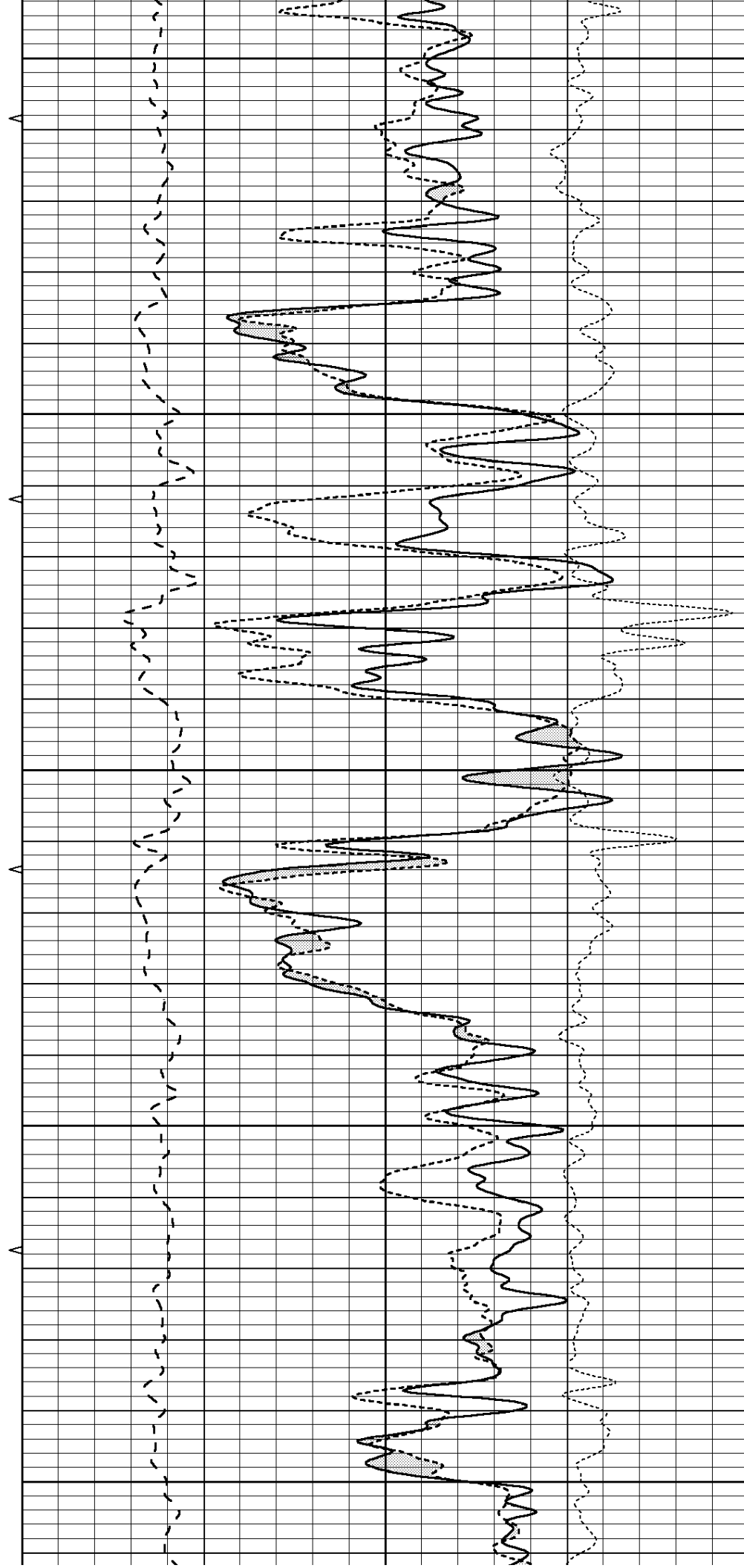
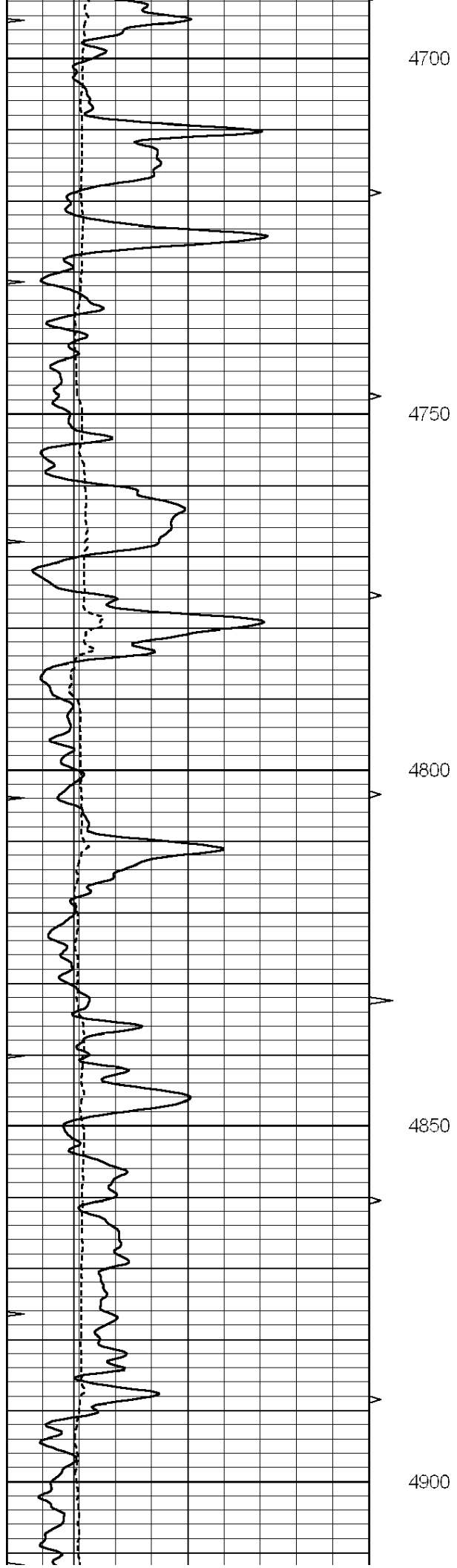
MAIN SECTION

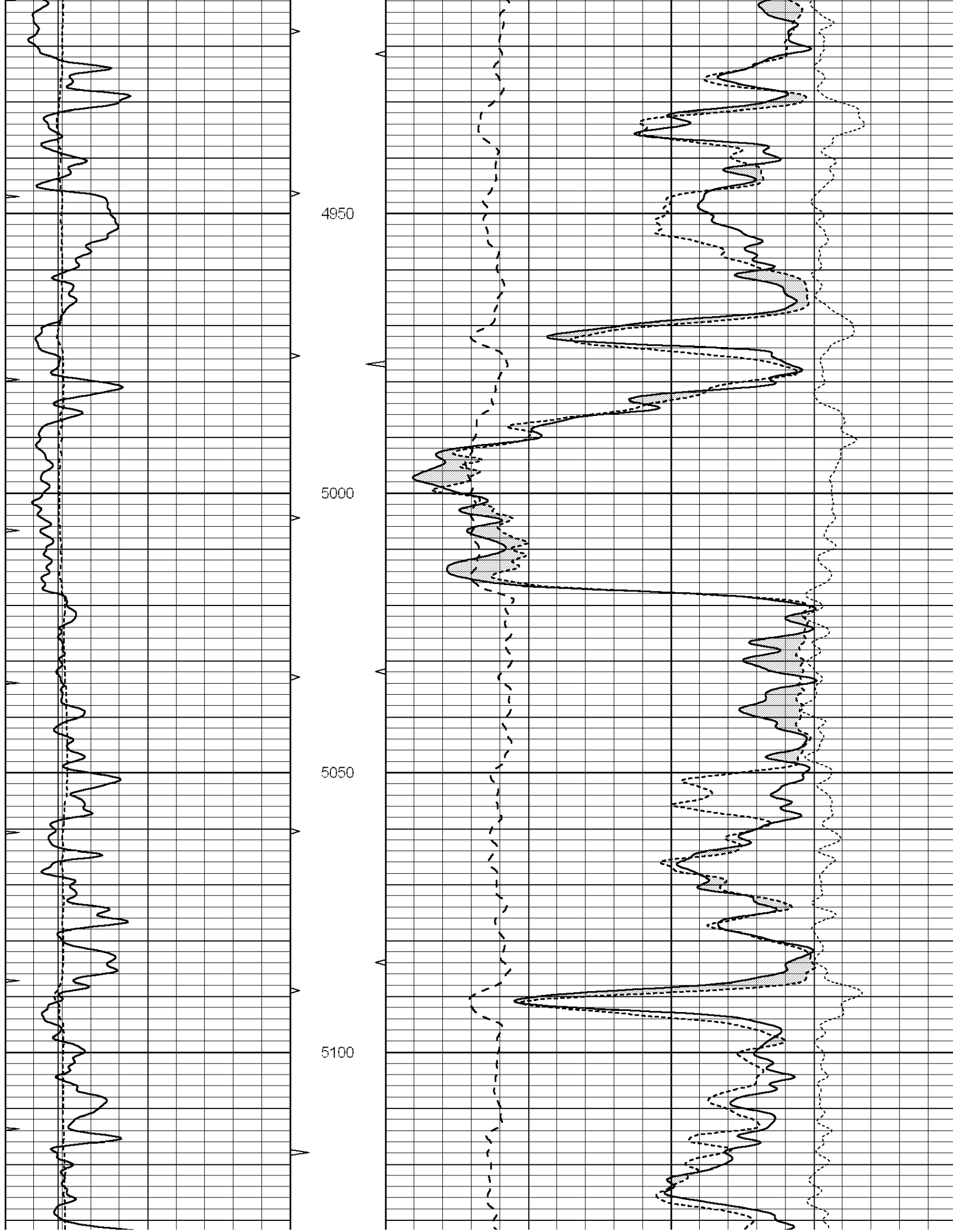
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Dataset Pathname: pass3.A
Presentation Format: ldt_neu
Dataset Creation: Sat Sep 24 06:52:12 2011
Charted by: Depth in Feet scaled 1:240

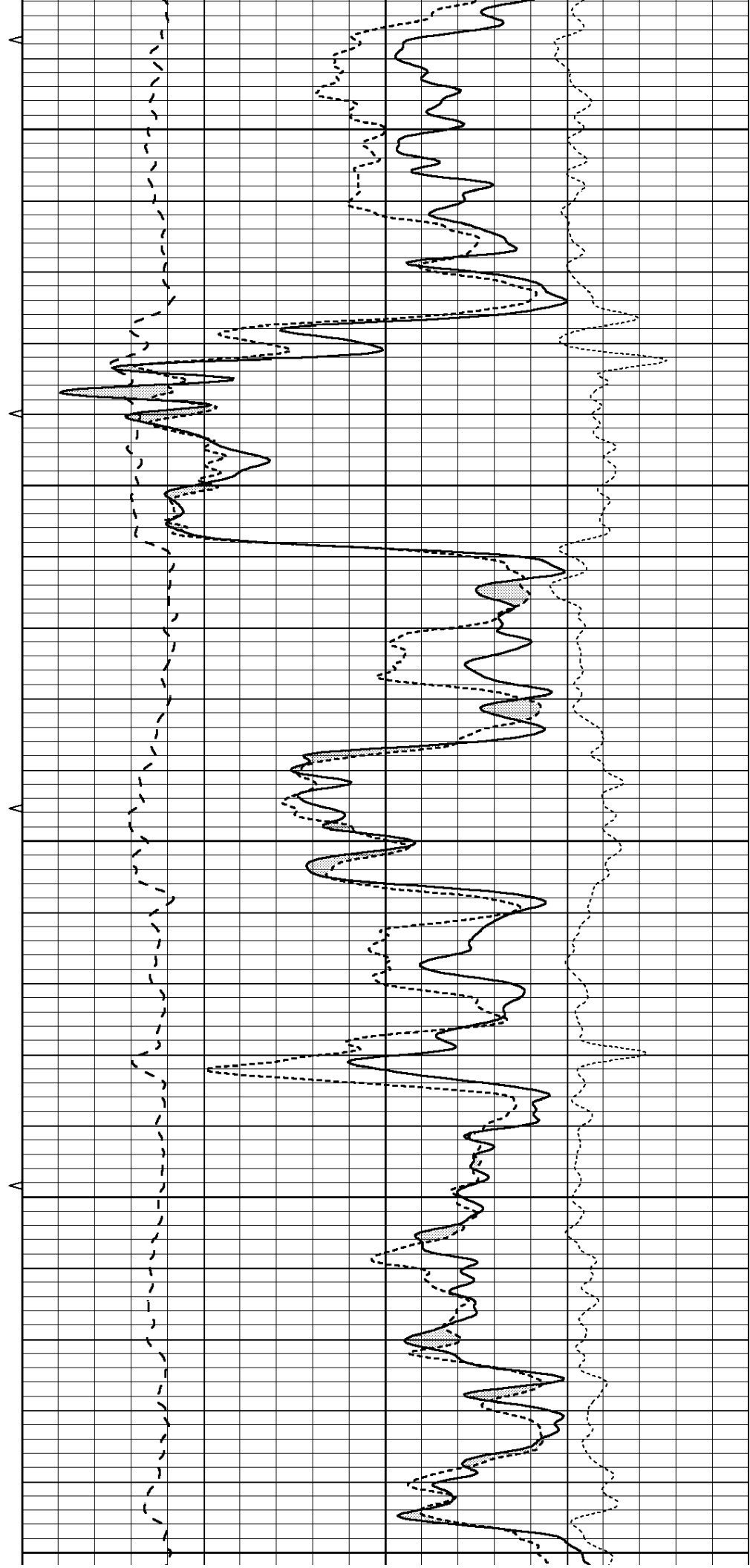
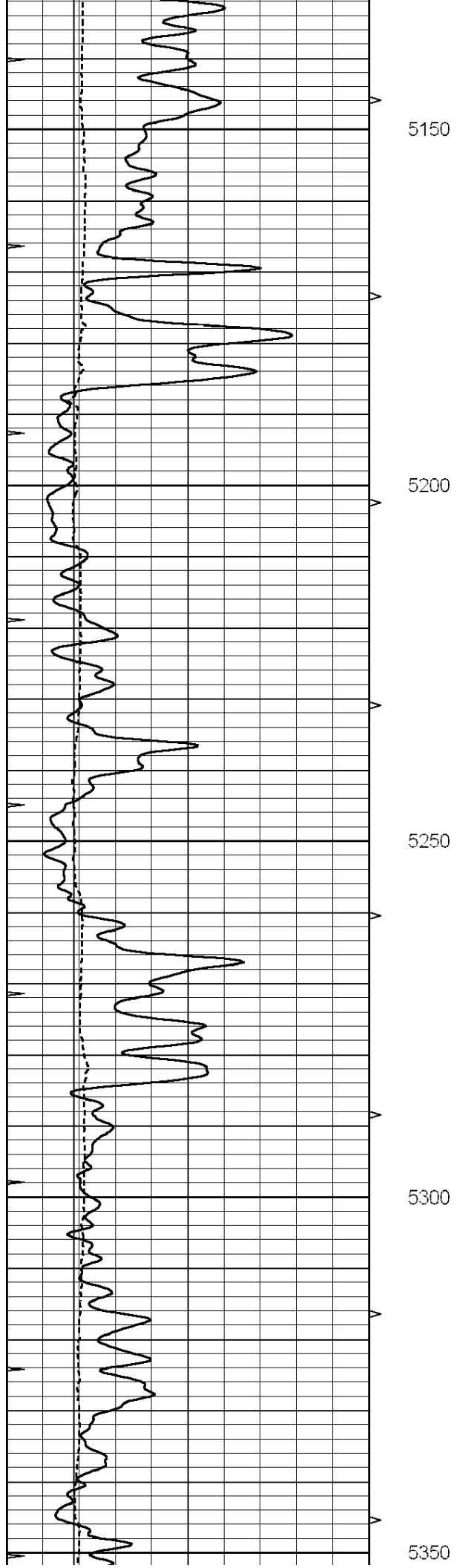
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		

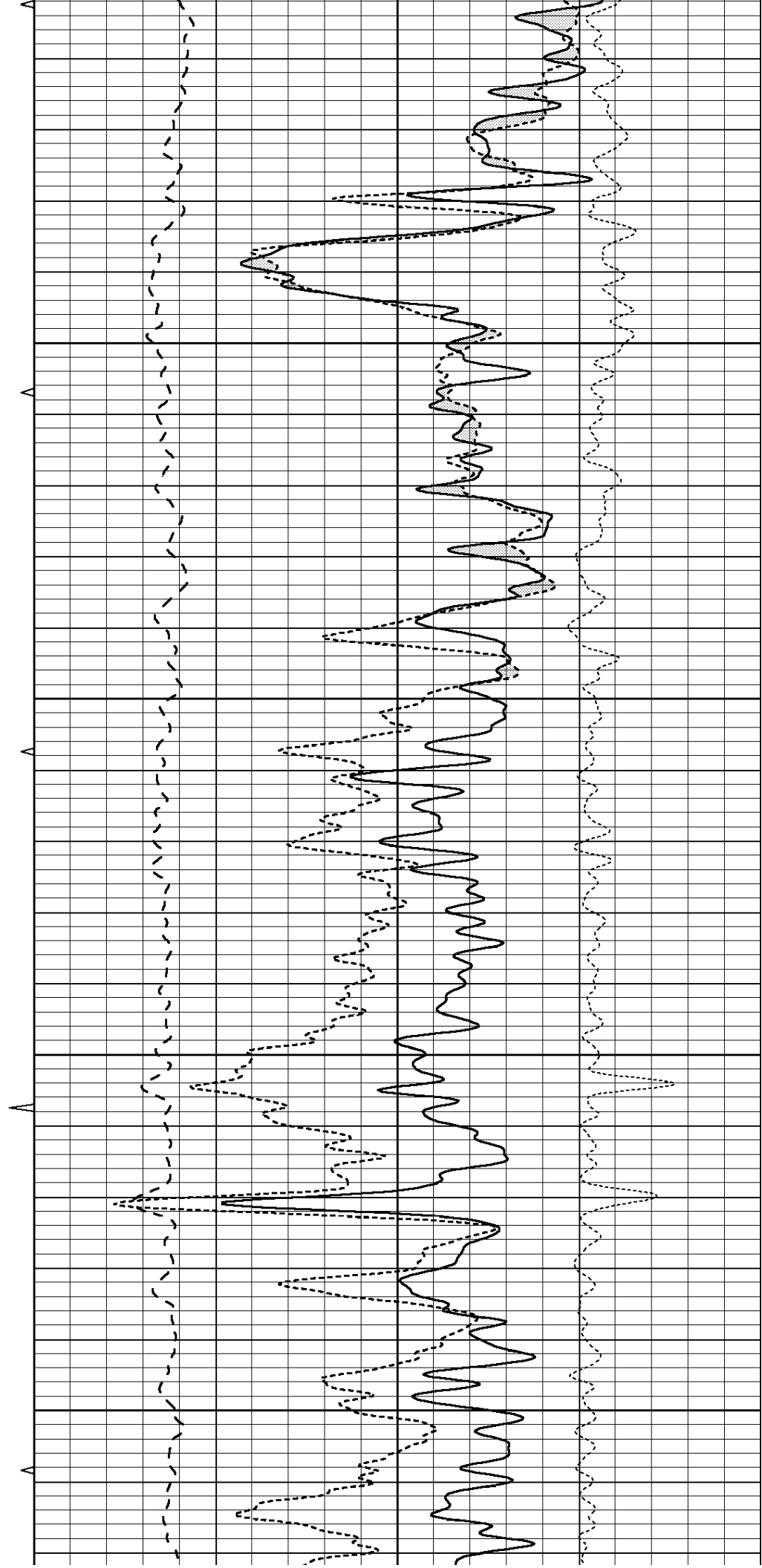
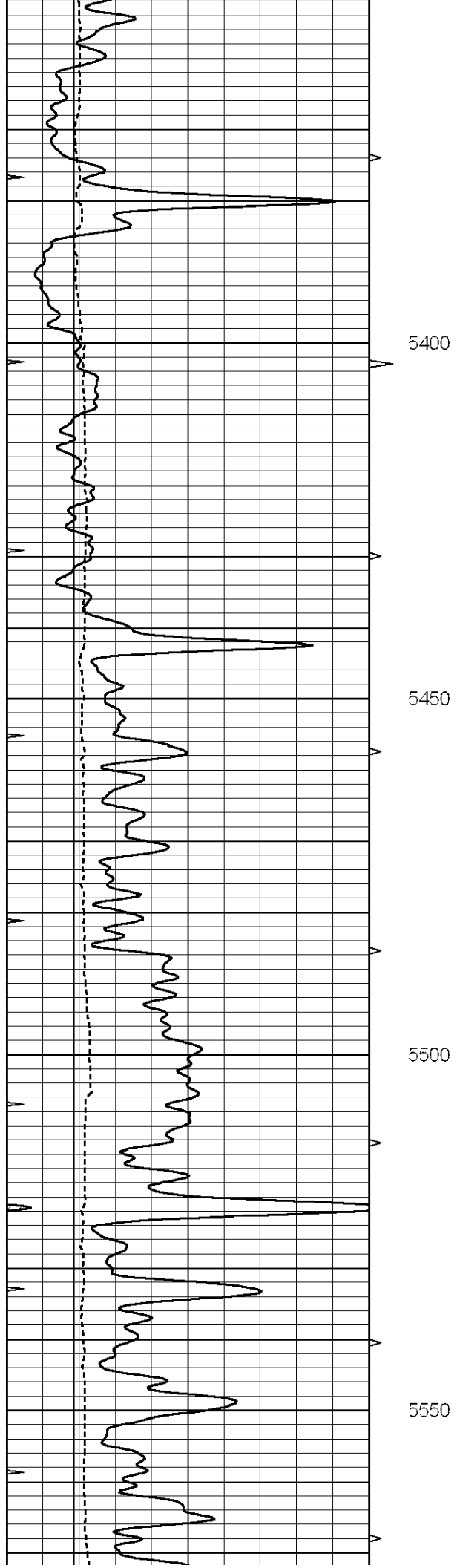


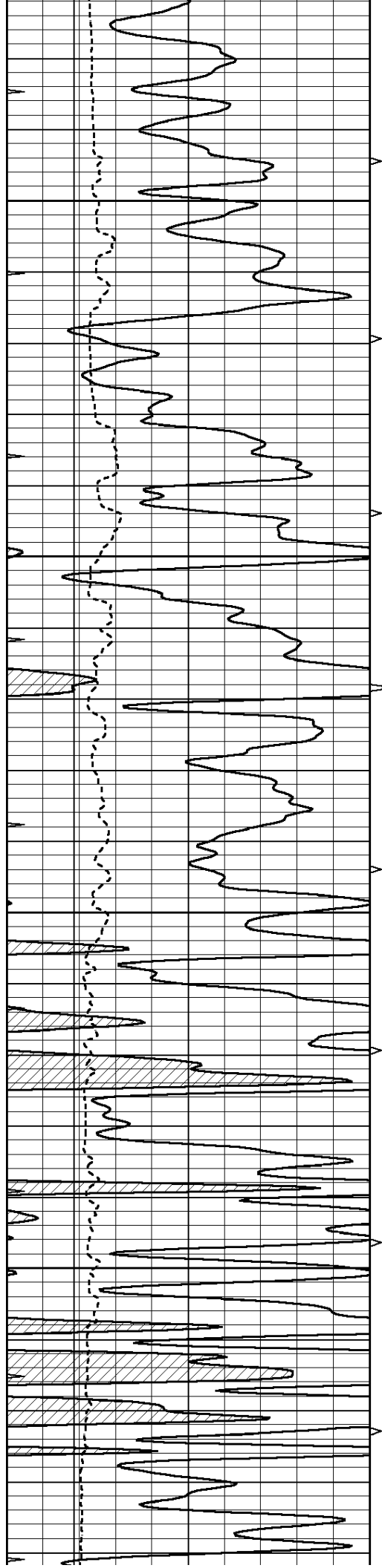










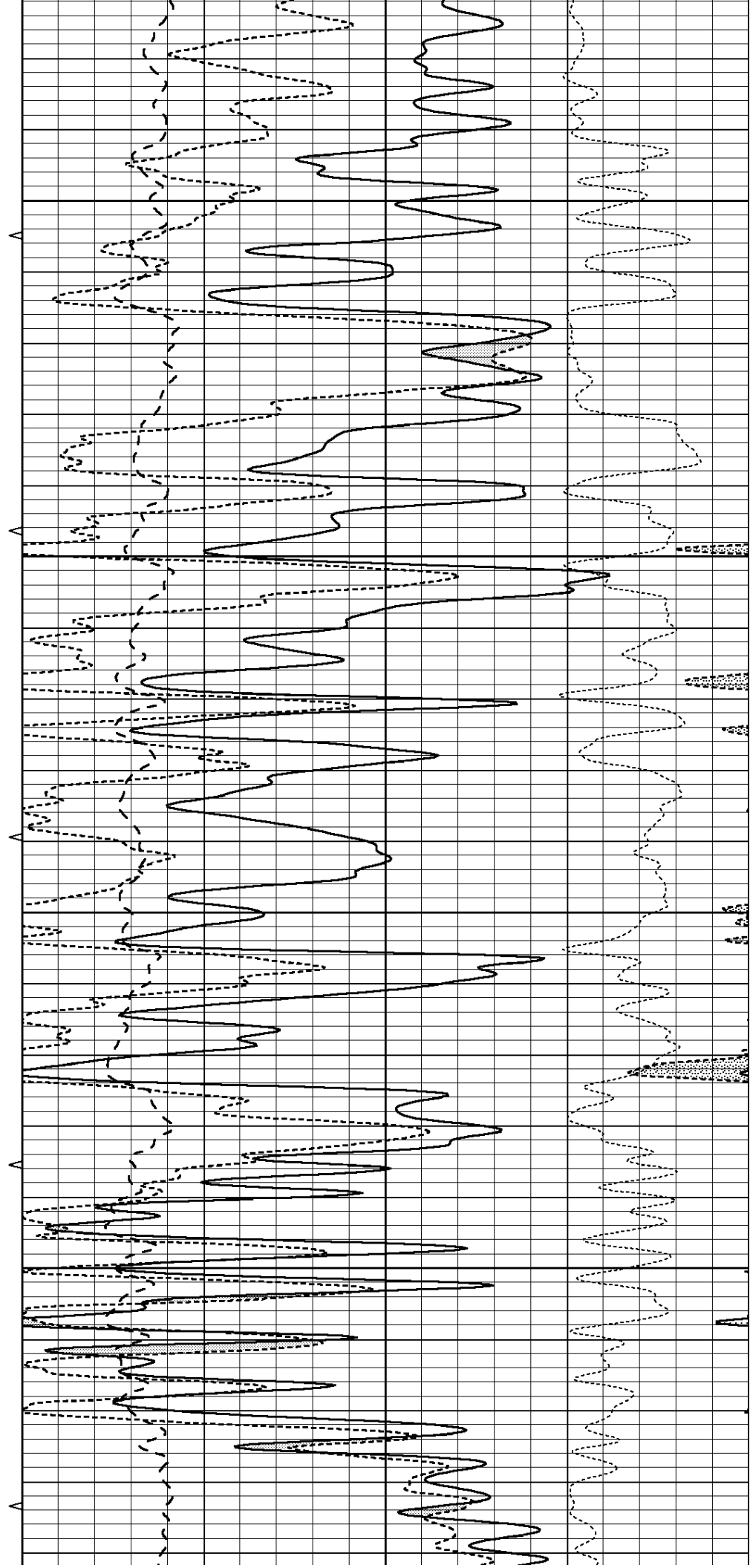


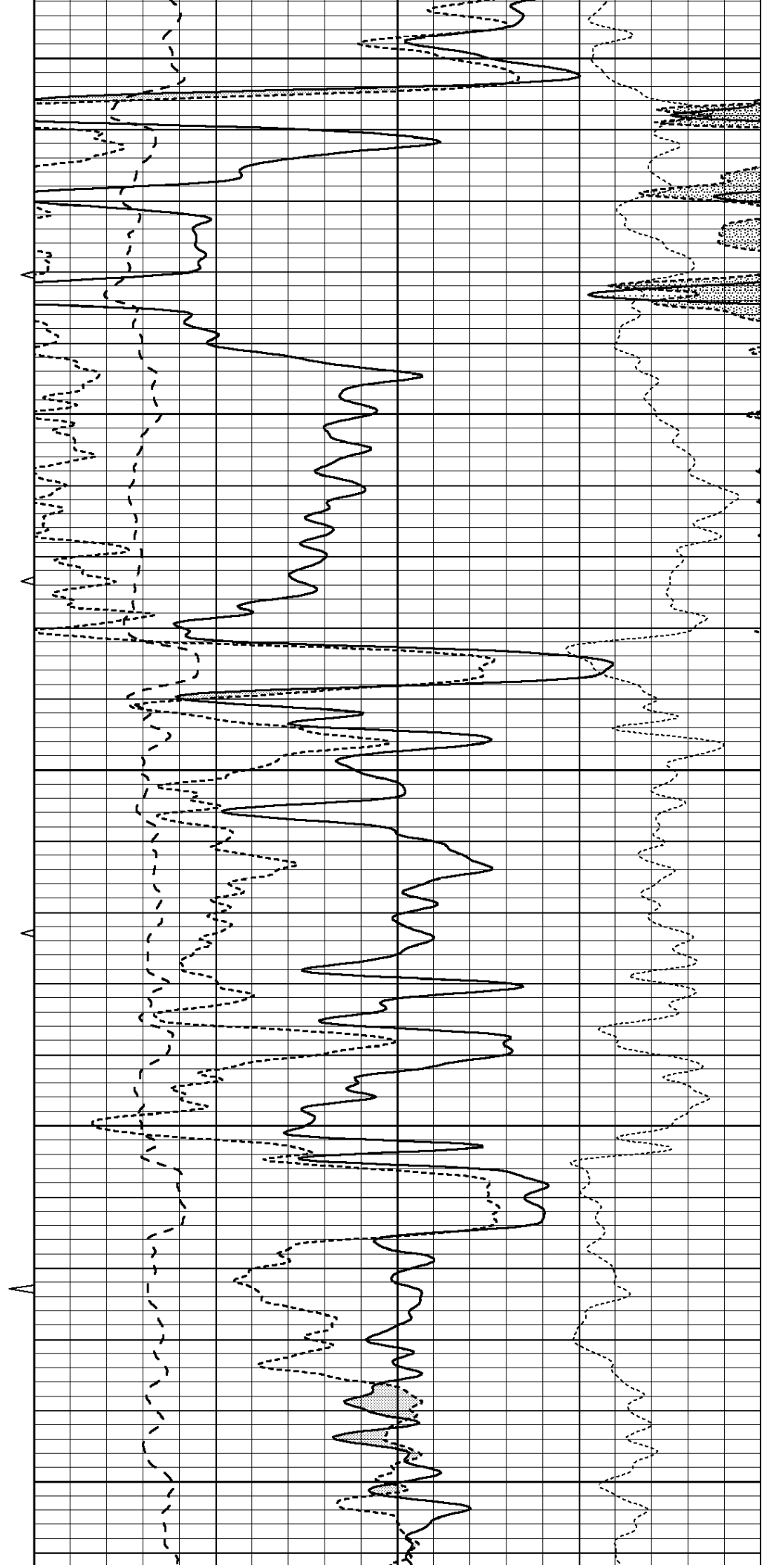
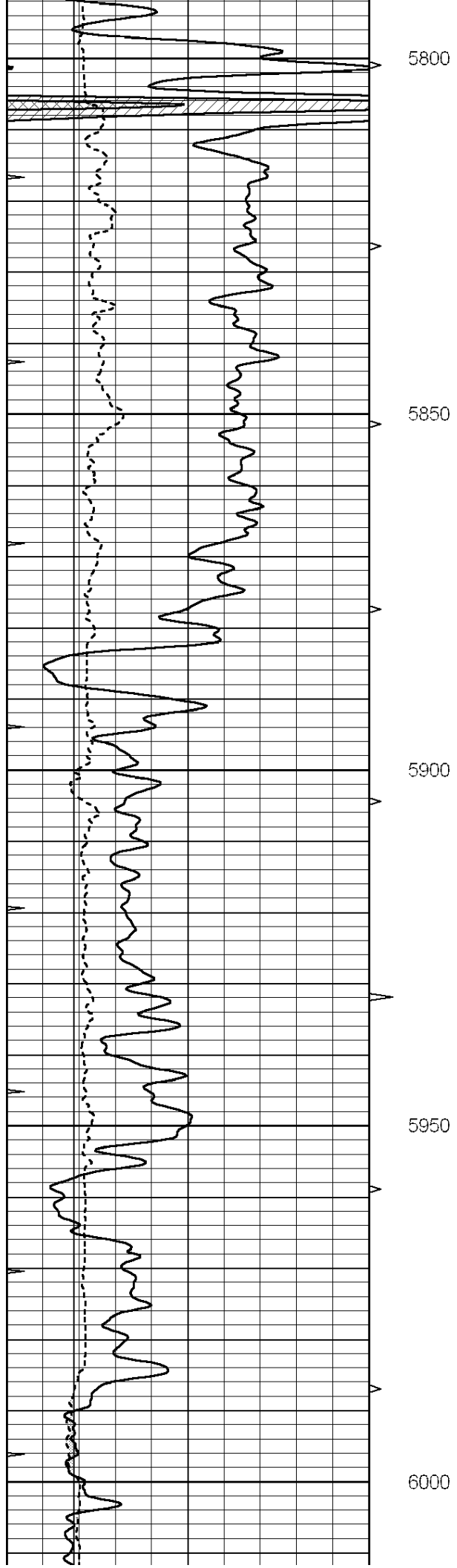
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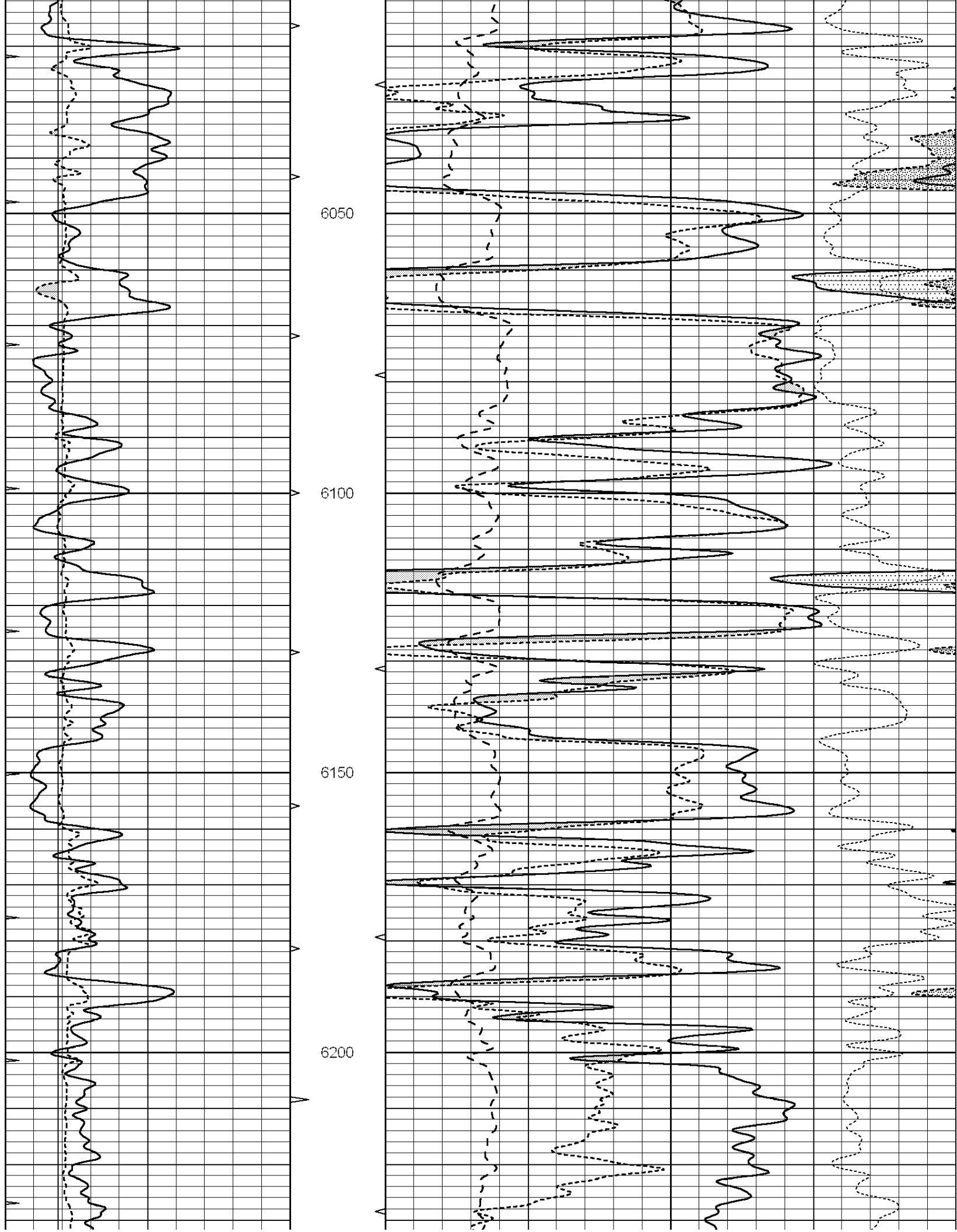
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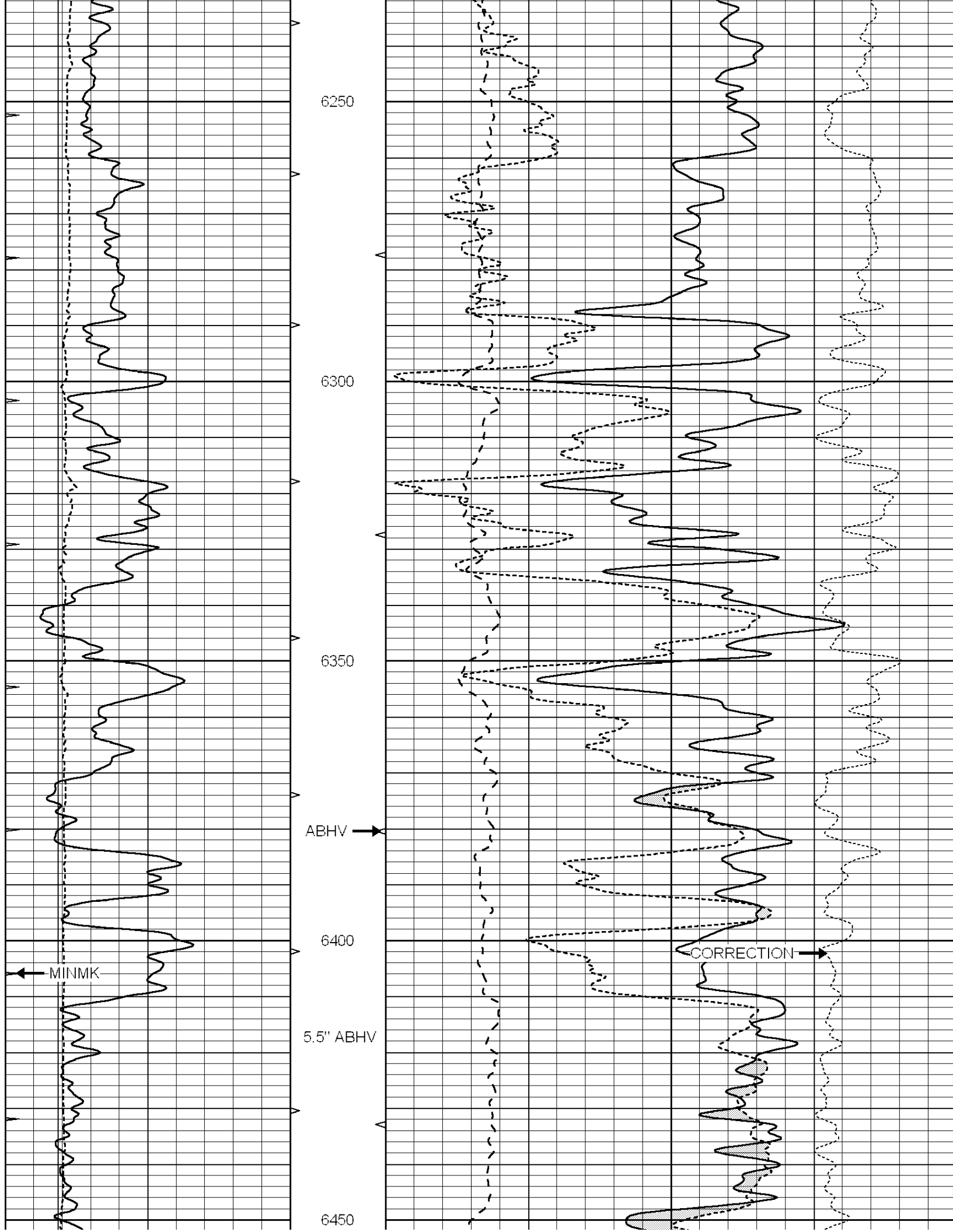
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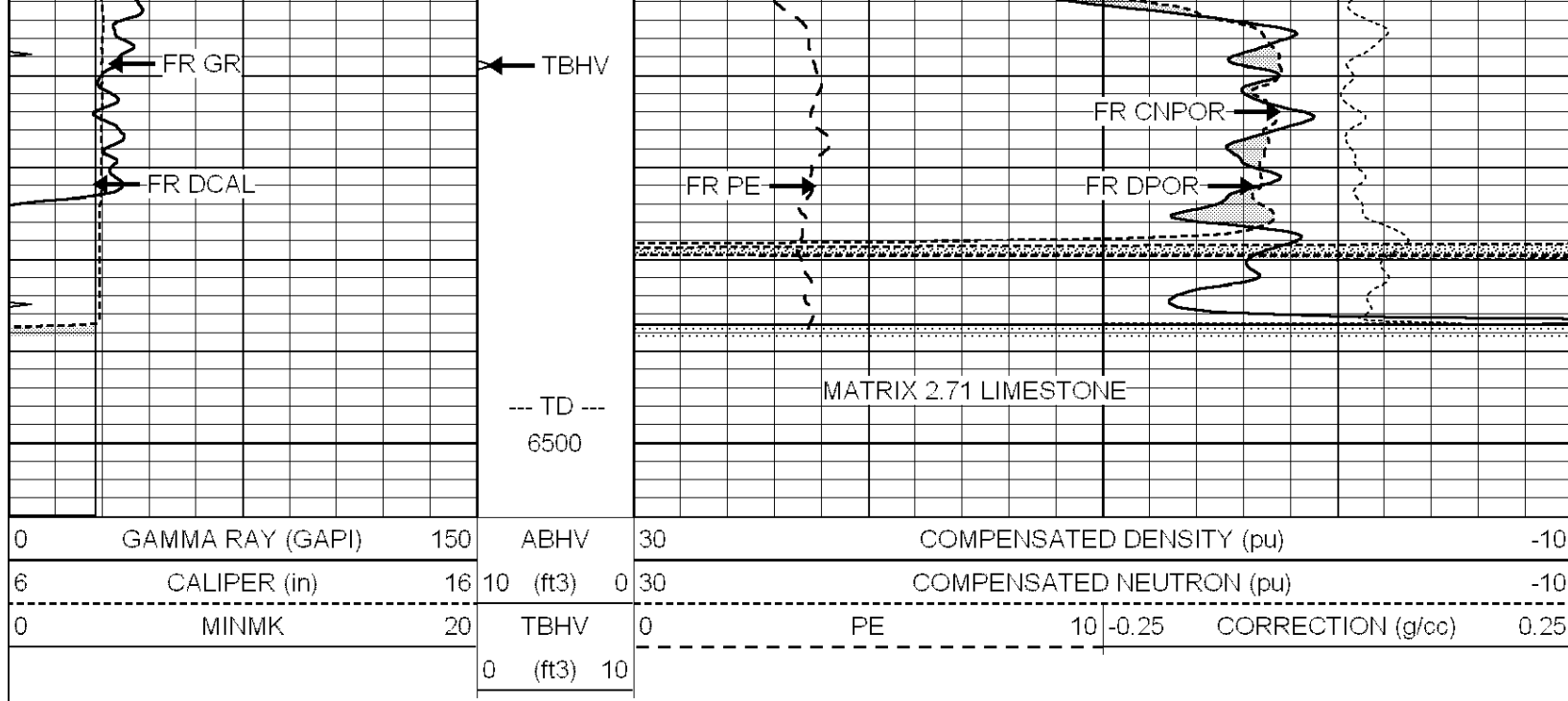
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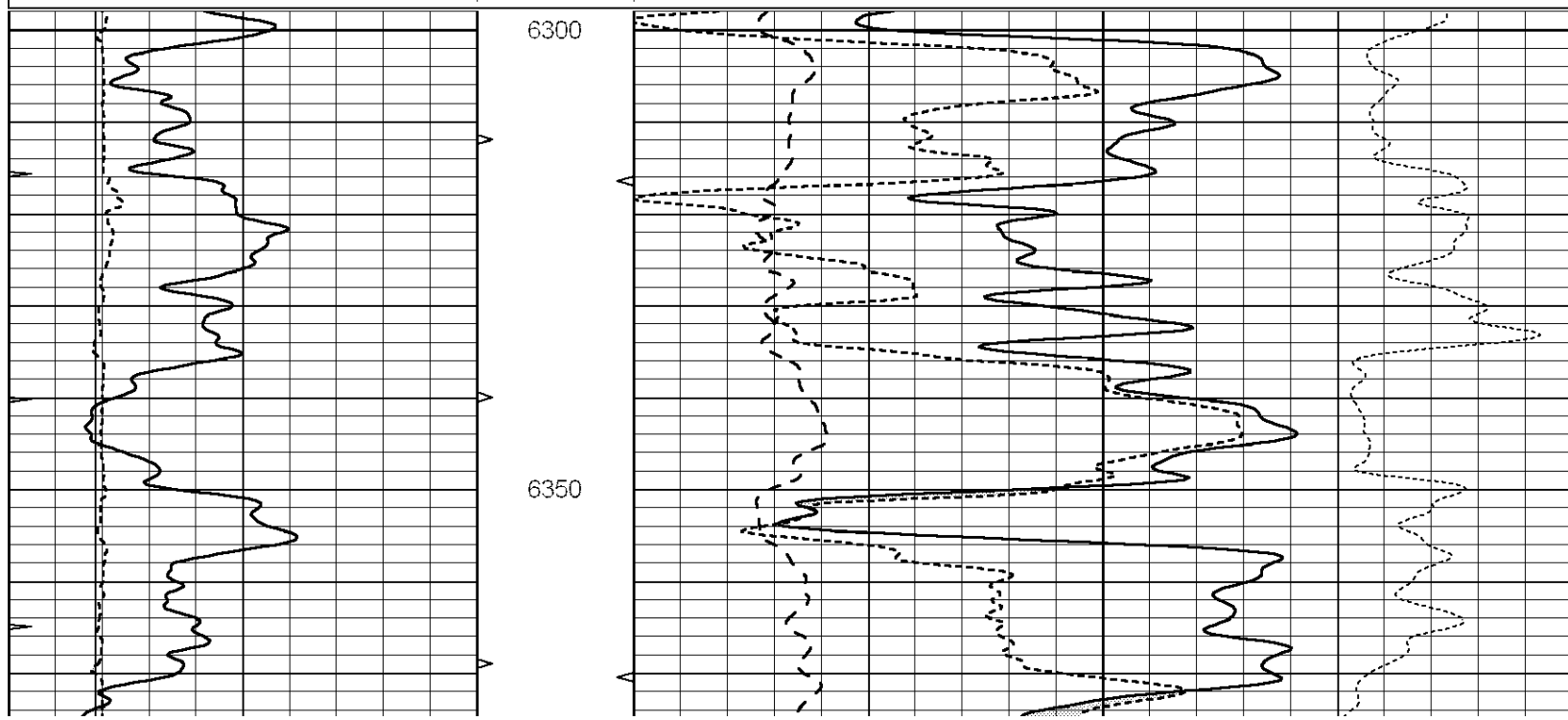


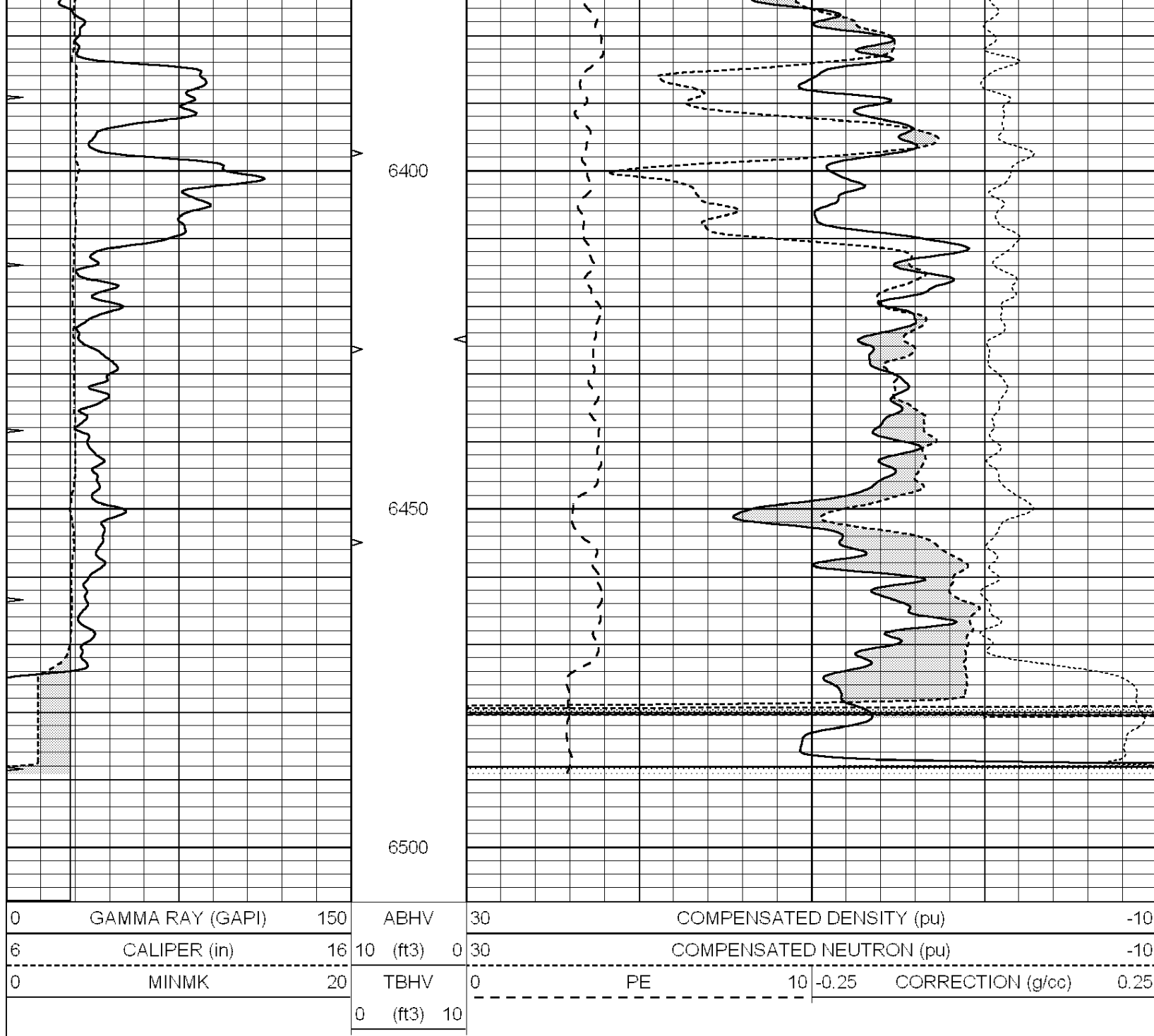
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REPEAT SECTION

Database File: 007743pdm.db
 Dataset Pathname: pass2A
 Presentation Format: ldt_neu
 Dataset Creation: Sat Sep 24 07:00:54 2011
 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)	
0	MINMK	20	TBHV	0	PE	10	-0.25 CORRECTION (g/cc)
			0 (ft3)	10			0.25





Calibration Report								
Database File:		007743pdn.db						
Dataset Pathname:		pass3.A						
Dataset Creation:		Sat Sep 24 06:52:12 2011						
Dual Induction Calibration Report								
Serial-Model:		DIL5-GEAR						
Performed:		Sat Sep 24 03:51:46 2011						
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	540.000	-16.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	560.000	-10.000
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: 06 Model: PRB								
Performed Sat Sep 18 11:23:16 2010								

Litho Density Calibration								
	<u>Background</u>		<u>Magnesium</u>		<u>Aluminum</u>		<u>Sandstone</u>	
Window 1	1677.0		8474.2		3299.9		9504.5	
Window 2	1525.0		6779.0		2711.9		7351.0	
Window 3	1198.9		3611.8		1704.2		3781.8	
Window 4	336.9		328.0		323.1		310.2	
Long Space	0.0		5253.9		1186.8		5825.9	
Short Space	2.0		1697.0		1111.9		1788.5	
Rho			1.7100		2.5960		1.3800	
Pe					2.5700		1.5500	
Rib Angle	: 44.1		Rib Slope	: 0.970		Density/Spine Ratio		: 0.573
Spine Angle	: 74.1		Spine Slope	: 3.519		Spine Intercept		: -17.6

Caliper								
	Readings		Reference					
Low Ref	3.9		8.4					
High Ref	5.6		14.0					
	Gain: 3.3				Offset: -4.8			

Compensated Neutron Calibration Report								
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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								
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Serial Number:			GR5					
Tool Model:			OPEN					
Performed:			Sat Sep 24 03:50:49 2011					
Calibrator Value:			1.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			1.0	cps				
Sensitivity:			0.6500	GAPI/cps				