



COMPENSATED DENSITY/NEUTRON PE LOG

Company	MULL DRILLING COMPANY, INC.	Company	MULL DRILLING COMPANY, INC.
Well	CARTER #2-30	Well	CARTER #2-30
Field	ROADRUNNER	Field	ROADRUNNER
County	CLARK	County	CLARK
State	KANSAS	State	KANSAS
Location:	API # : 15-025-21620-0000 2781' FNL & 1568' FWL NE/4 - SW/4	Other Services DIL/MEL SONIC	
Permanent Datum	SEC 30 TWP 32S RGE 23W	Elevation	
Log Measured From	GROUND LEVEL Elevation 2245 KELLY BUSHING 8' A.G.L	K.B. 2253 D.F. 2251 G.L. 2245	
Drilling Measured From	KELLY BUSHING		
Date	11/14/22		
Run Number	ONE		
Depth Driller	7061		
Depth Logger	7063		
Bottom Logged Interval	7039		
Top Log Interval	4400		
Casing Driller	8 5/8" @ 731		
Casing Logger	731		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3.400 PPM	
Density / Viscosity	9.2/54		
pH / Fluid Loss	9.5/6.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30 @ 50F		
Rmf @ Meas. Temp	.975 @ 50F		
Rmc @ Meas. Temp	1.56 @ 50F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.451 @ 144F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	3:00 A.M.		
Maximum Recorded Temperature	144F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	BLAKE MILLER		

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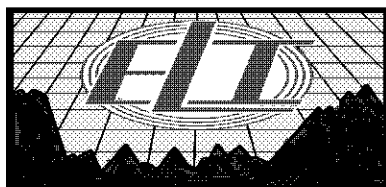
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:

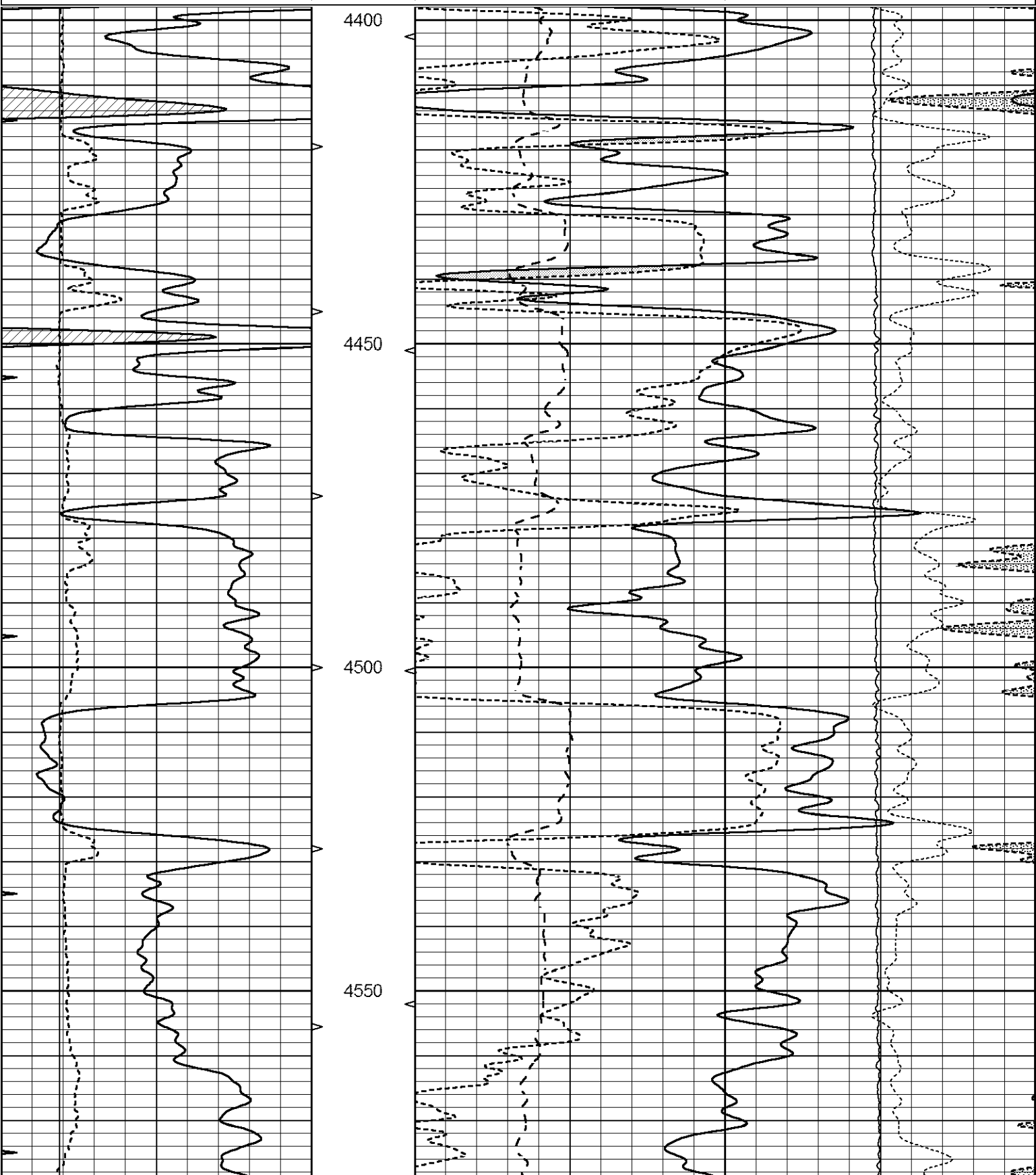
FROM ASHLAND GO 3 MILES WEST ON HIGHWAY 160, 3/4 MILES NORTH ON CREEK 15 ROAD,
NORTH OVER CATTLE GUARD PAST HOUSE, FOLLOW LEASE ROAD 2 MILES

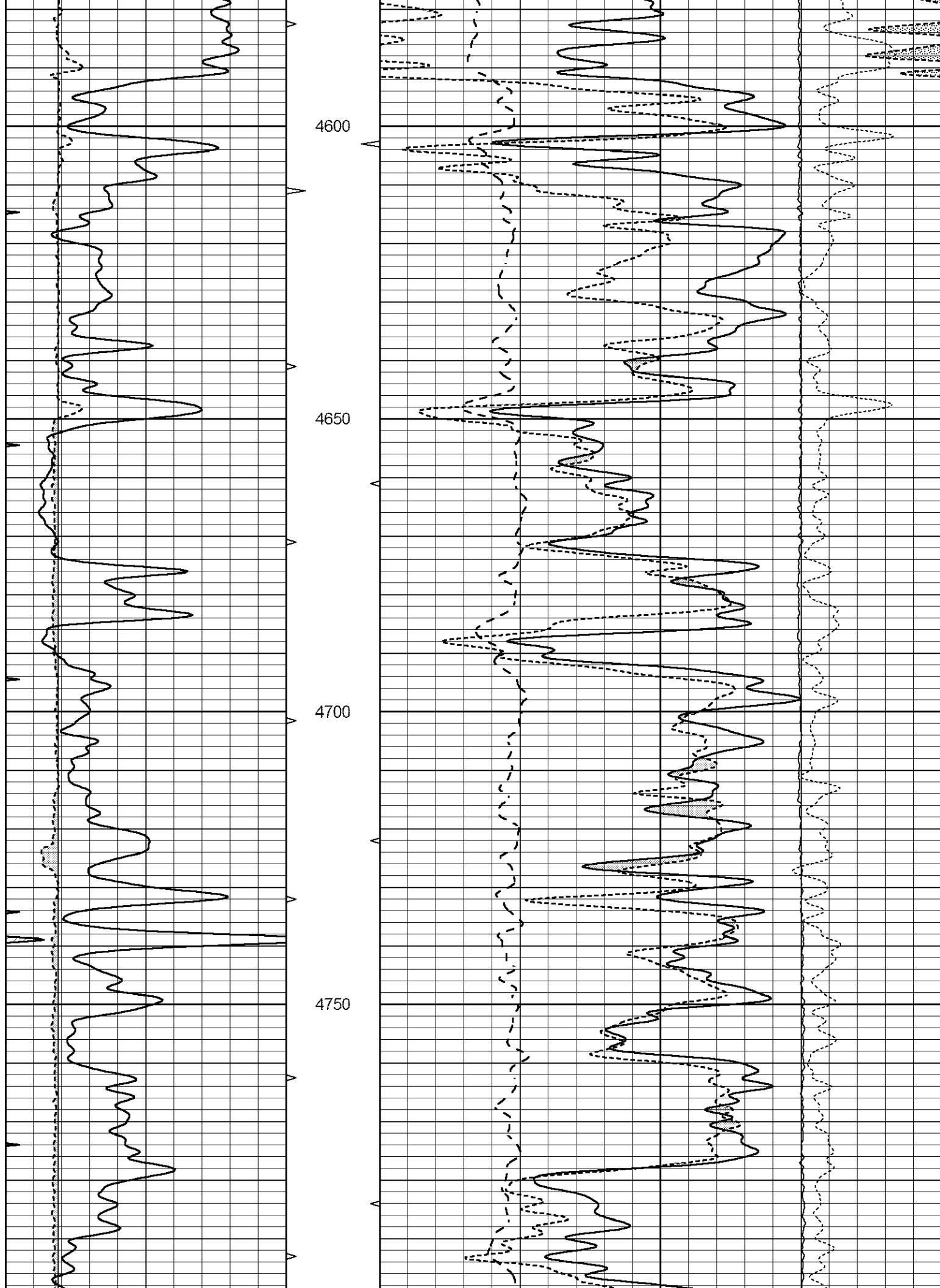


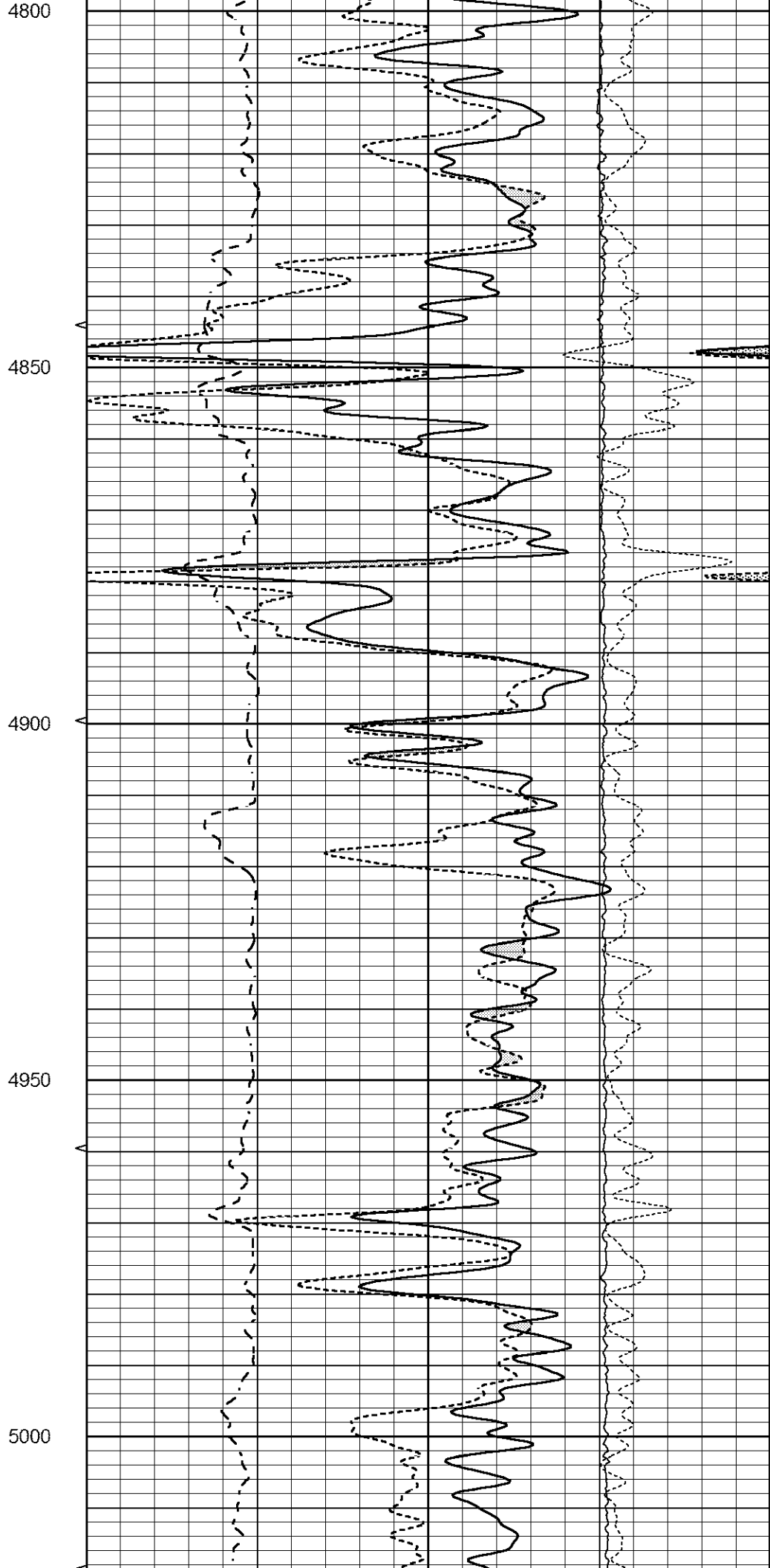
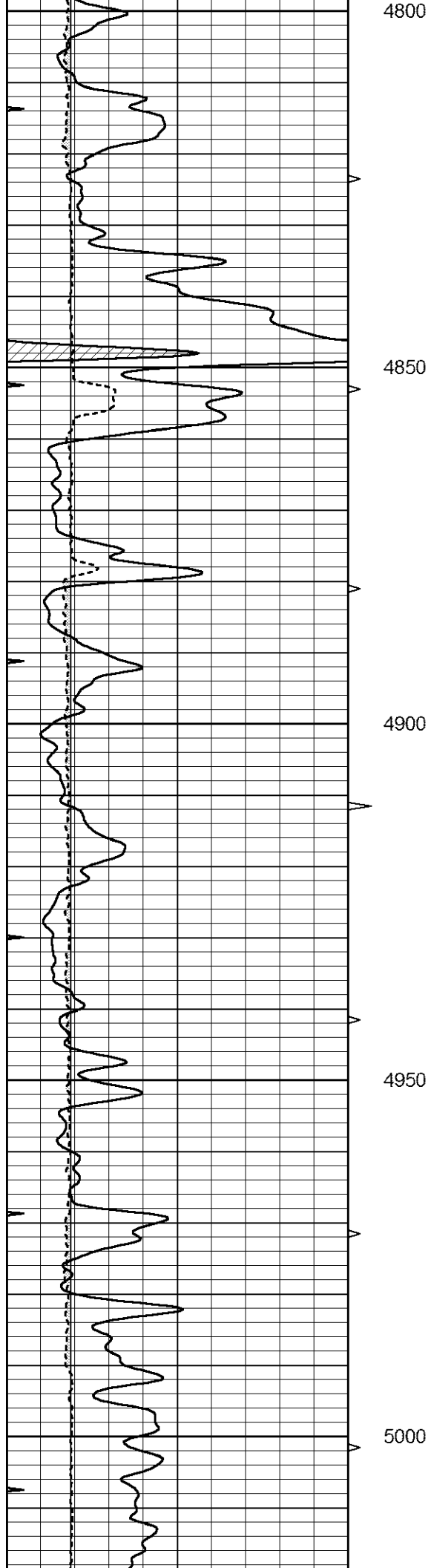
MAIN SECTION

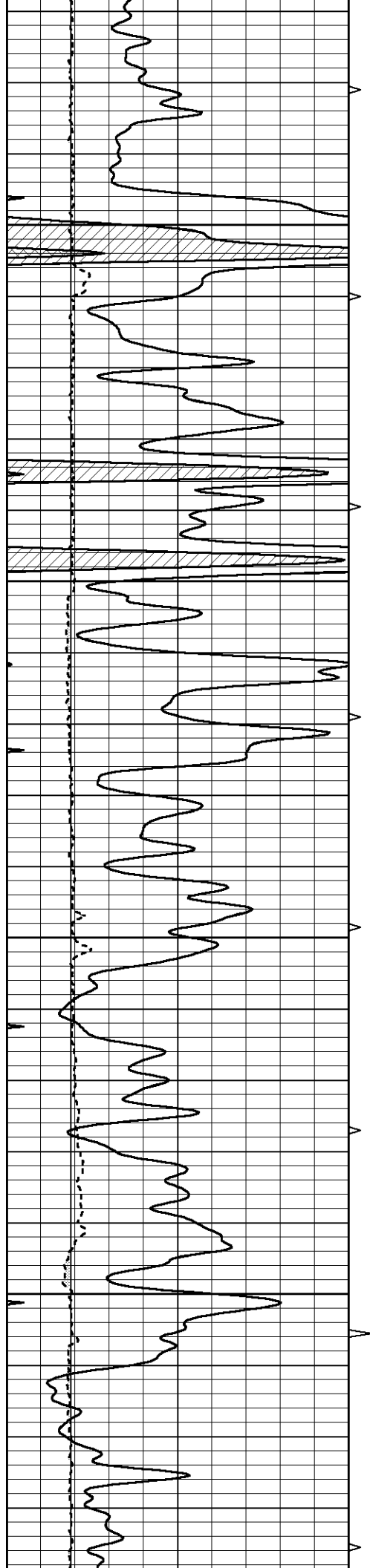
Database File	7249pe.db
Dataset Pathname	pass3D
Presentation Format	_ldt_neu
Dataset Creation	Mon Nov 14 05:23:25 2022
Charted by	Depth in Feet scaled 1:240

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	LTEN (lb)	5000







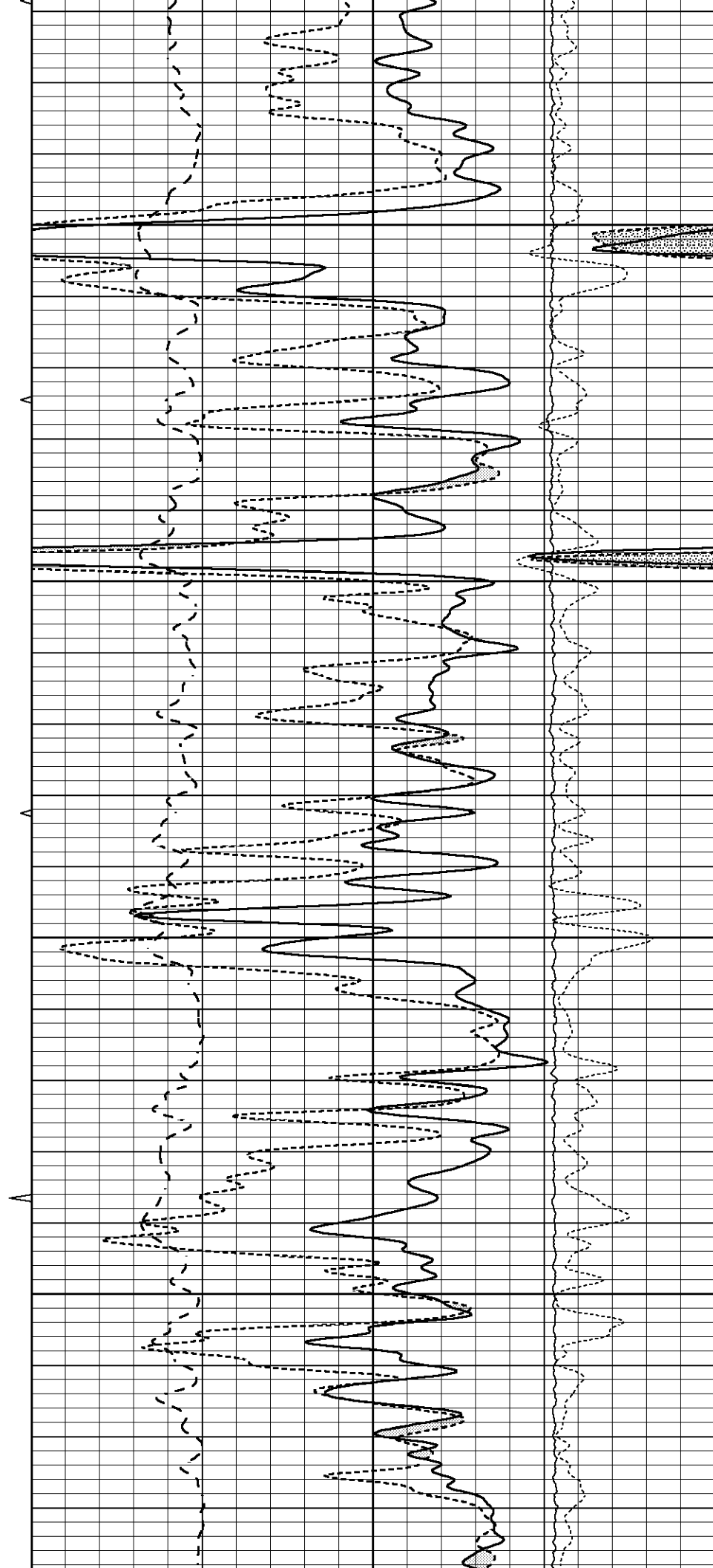


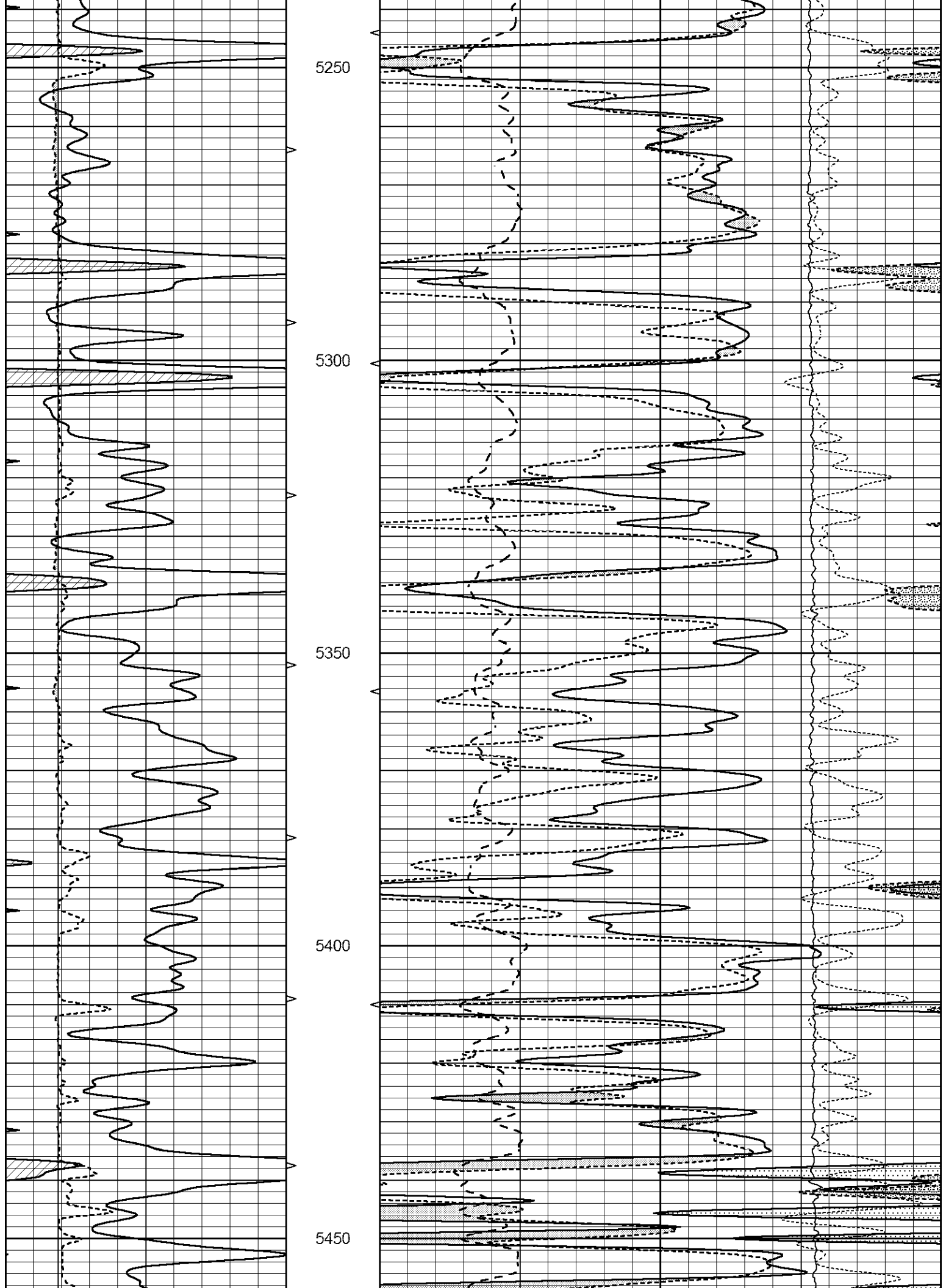
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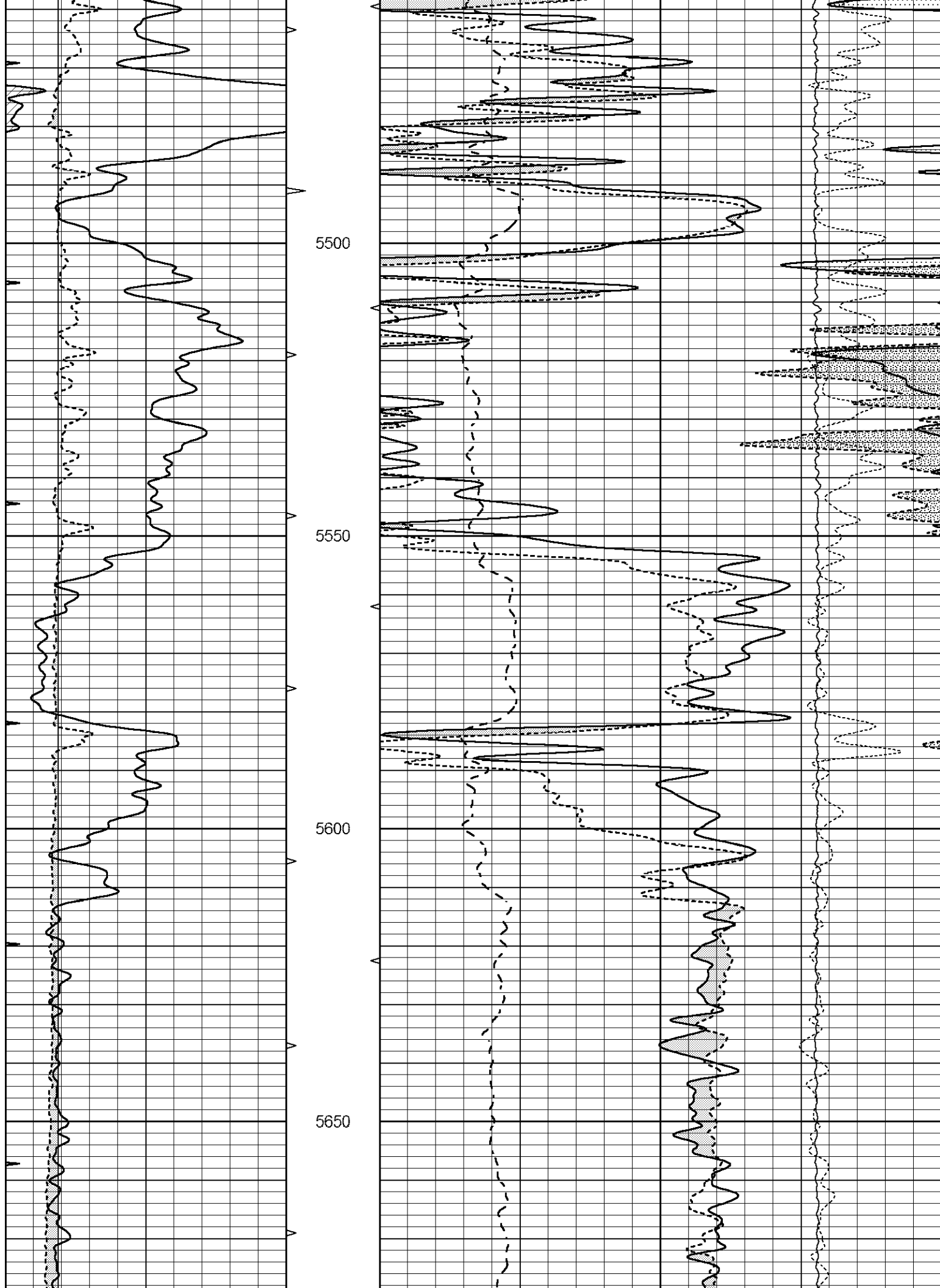
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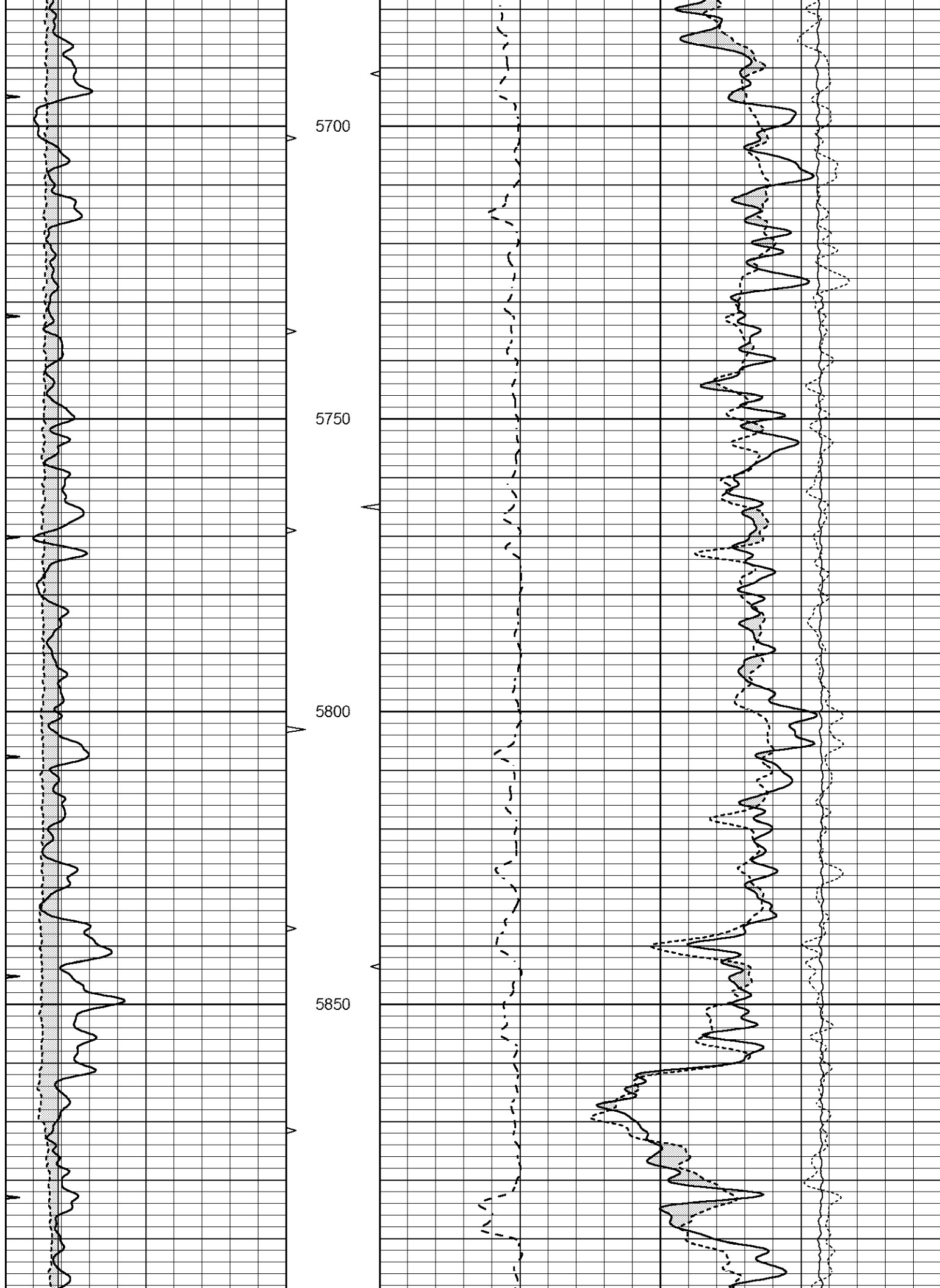
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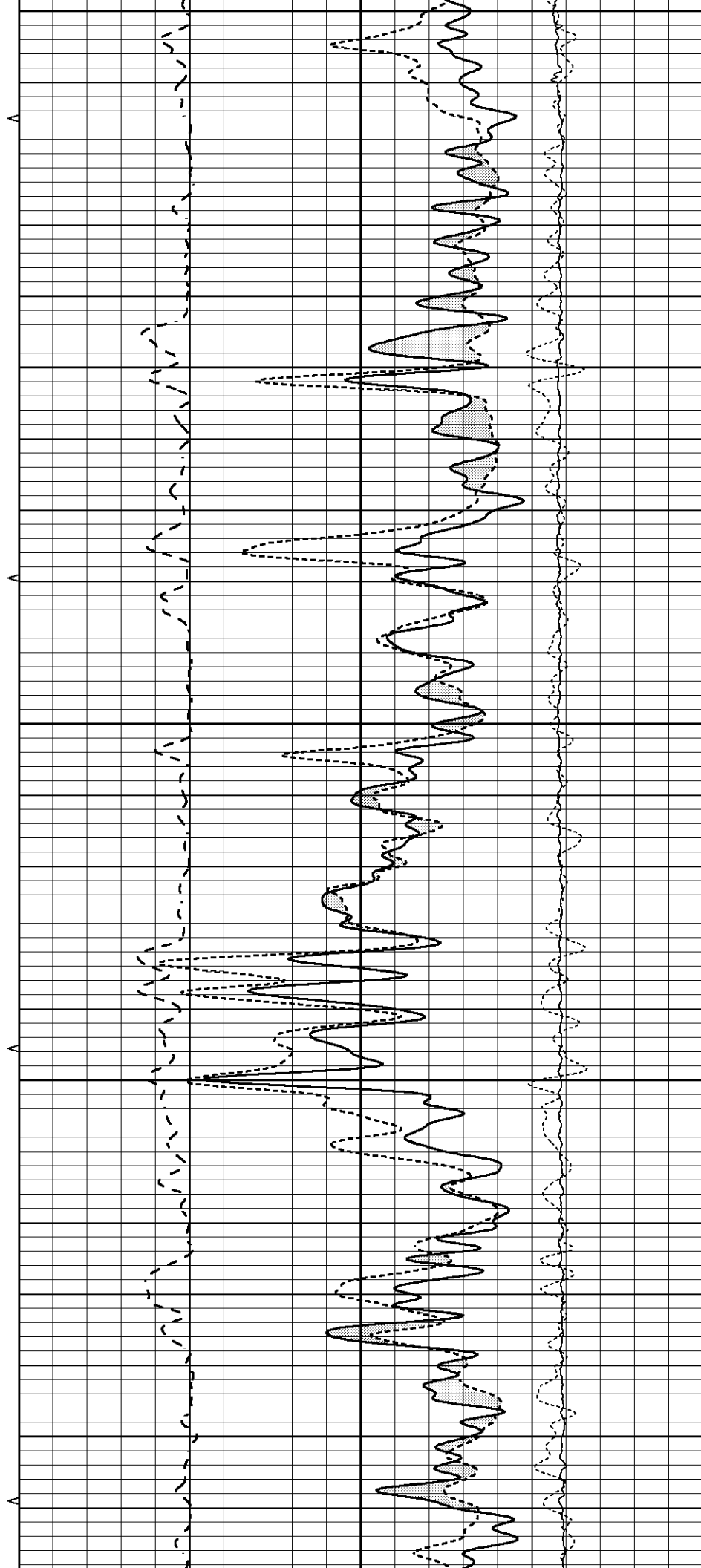
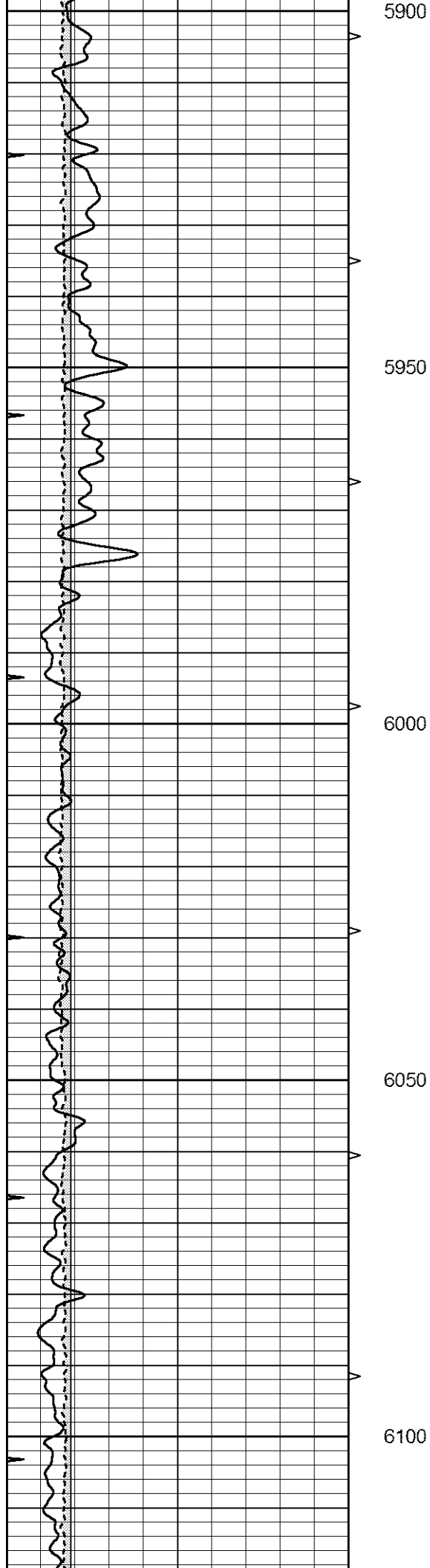
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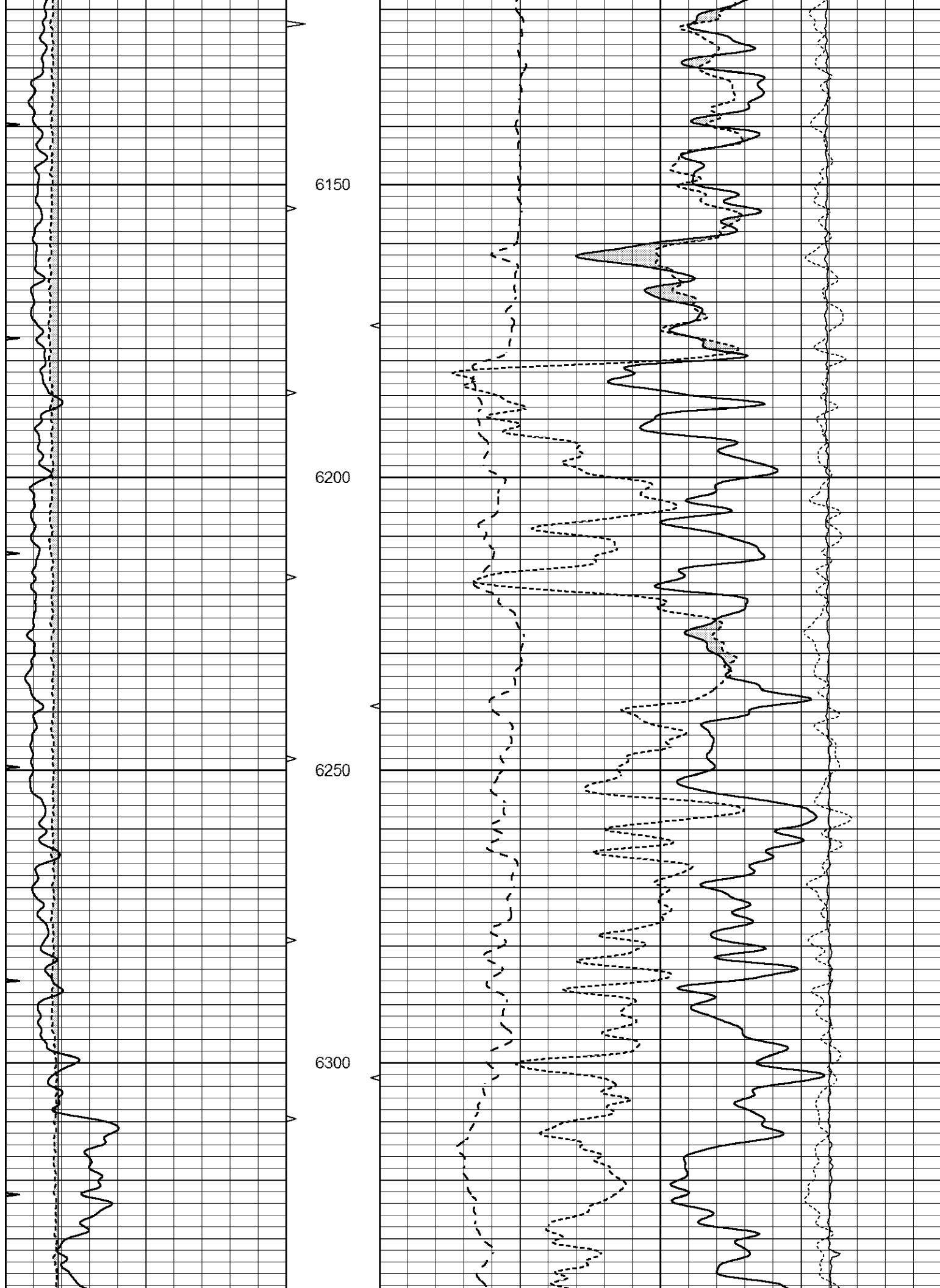


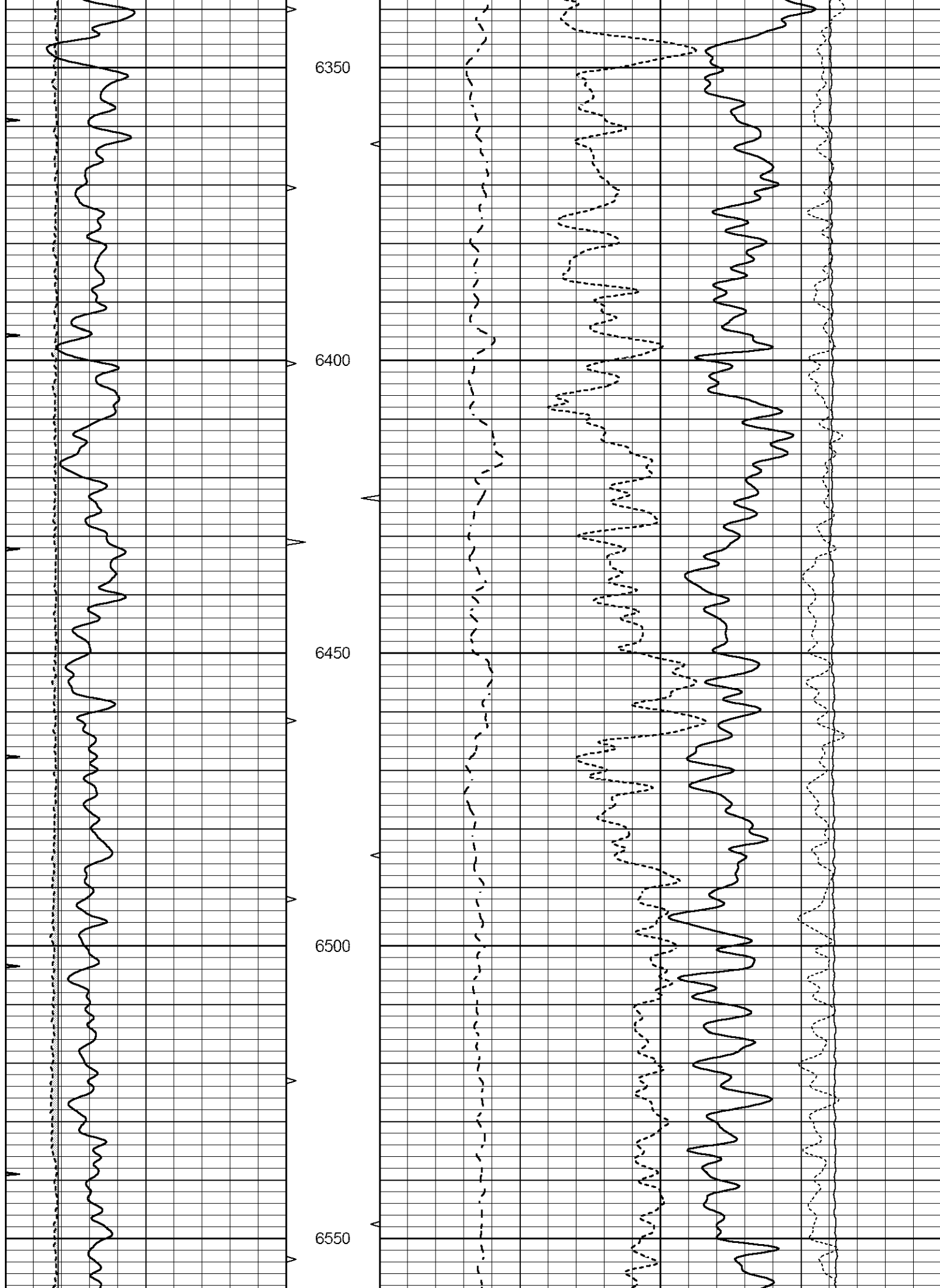


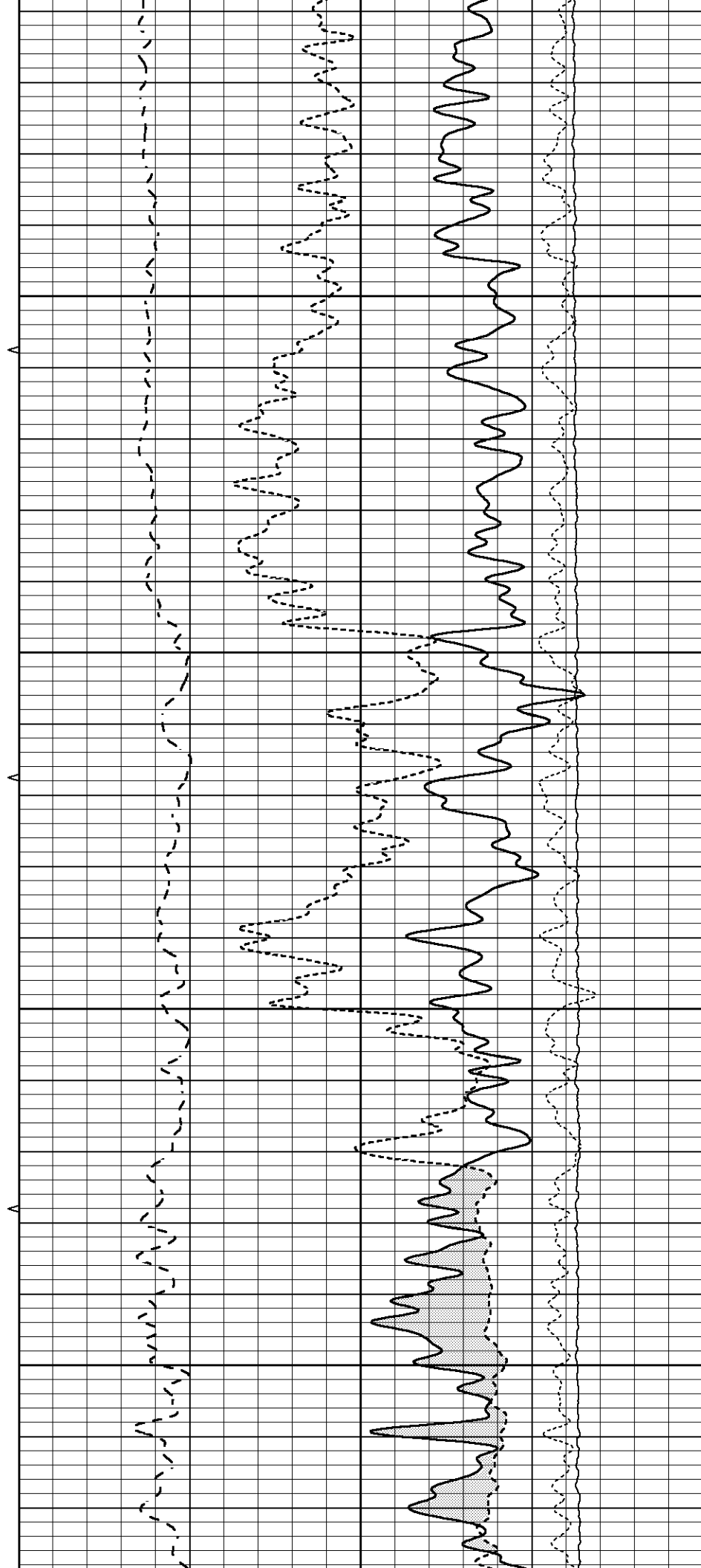
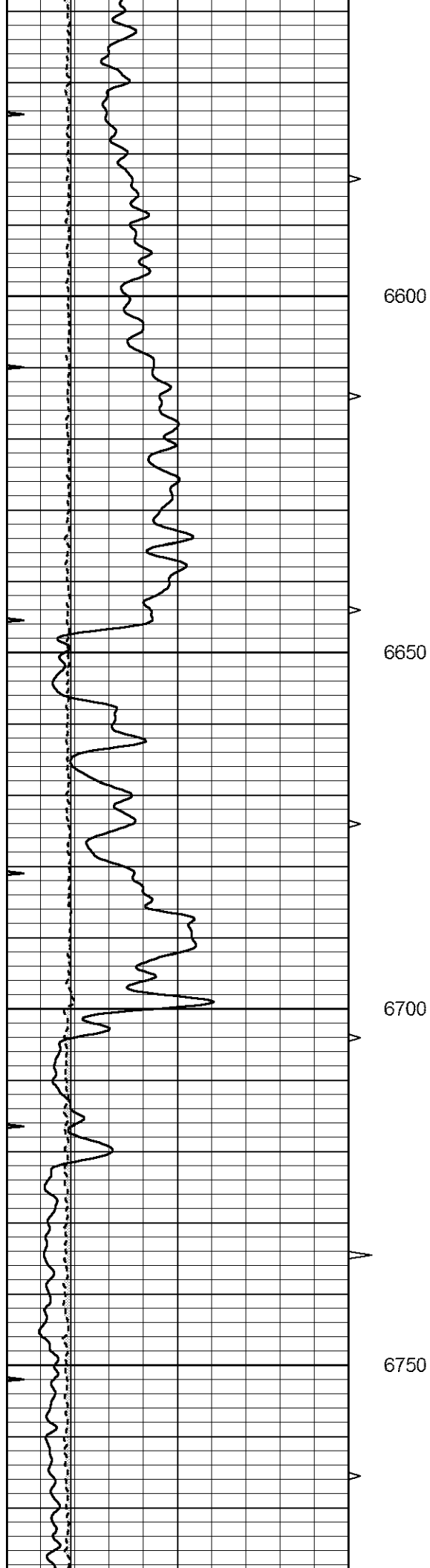


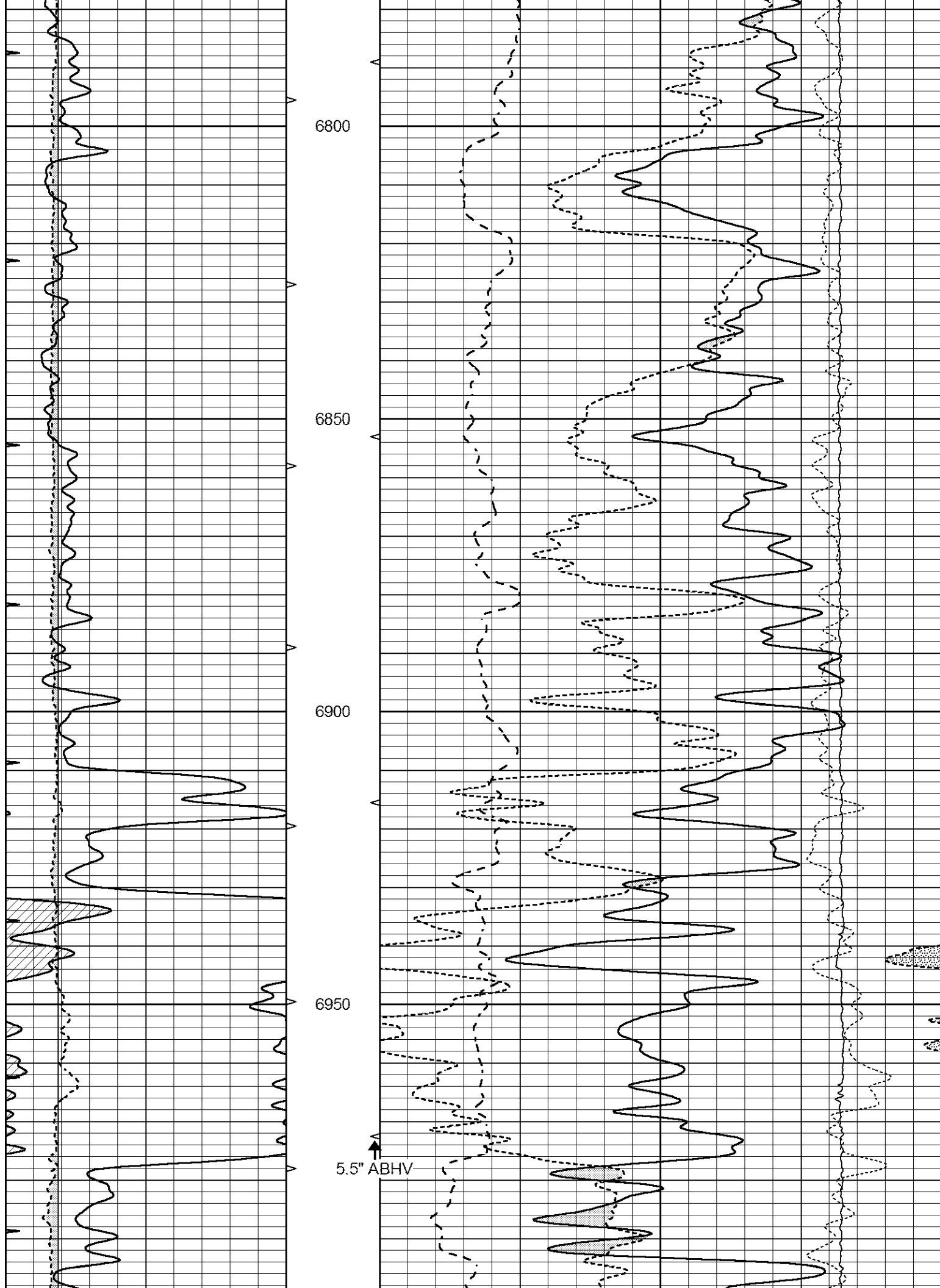


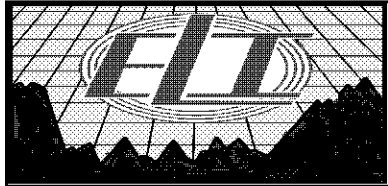
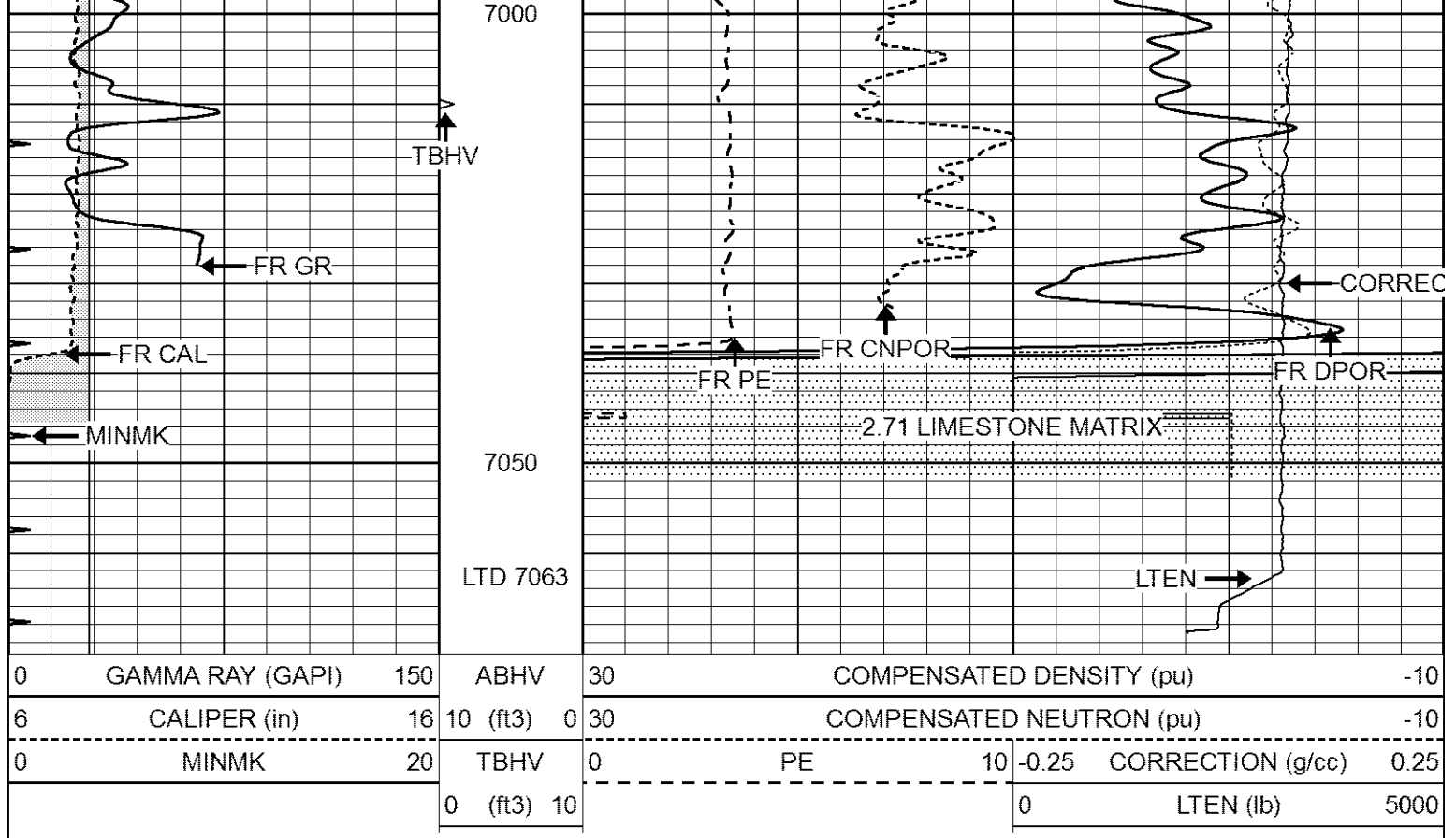








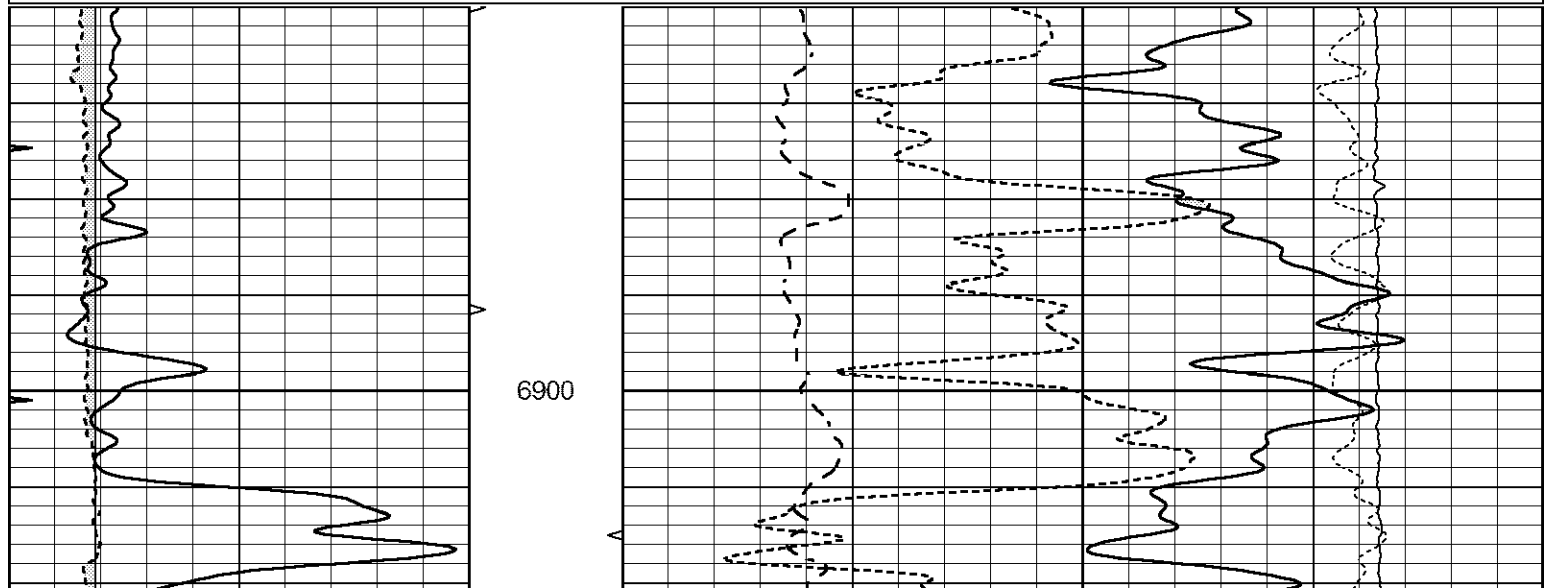


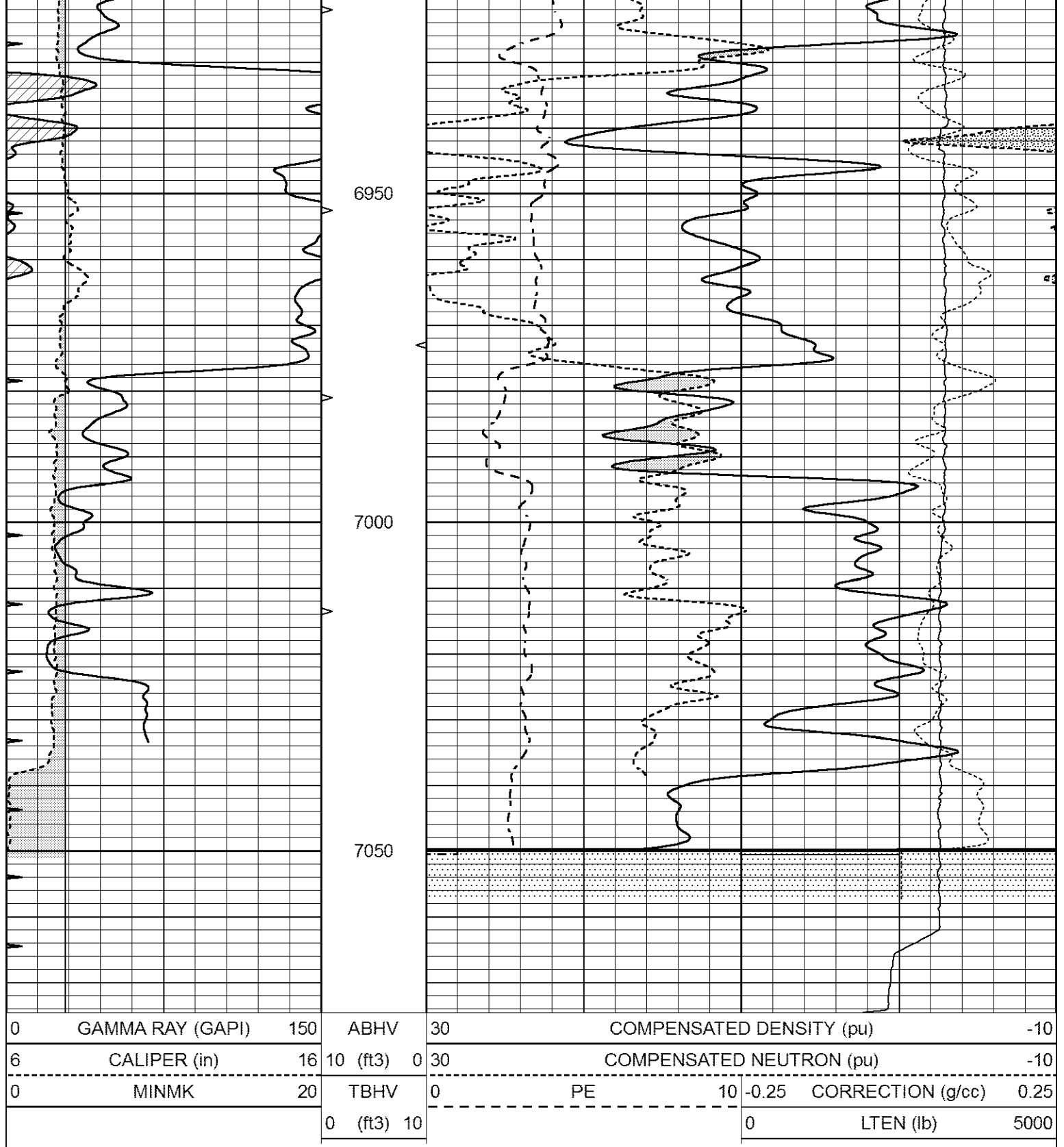


REPEAT SECTION

Database File 7249pe.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Mon Nov 14 06:49:44 2022
 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 LTEN (lb) 5000





Calibration Report

Database File 7249pe.db
 Dataset Pathname pass3D
 Dataset Creation Mon Nov 14 05:23:25 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Thu Jun 30 01:48:00 2022
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration								
		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	650.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-10.500
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration								
		Readings		References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification								
		Readings		Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report Serial: 140704 Model: V4_10P Source Number: 74GBq-19								
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Master Calibration				Performed: Tue Oct 25 14:02:07 2022				
	Background	Aluminum	Magnesium					
Window 1	501.98	5377.33	23235.87	cps				
Window 2	38.66	1167.13	5462.52	cps				
Window 4	219.95	1265.38	5296.65	cps				
Window 5	535.47	7345.58	14269.59	cps				
Window 6	42.48	1172.64	2113.12	cps				
Window 8	252.82	2368.74	4743.90	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8018	SS Alpha:	: -0.8503	LS CPE:		: 1.2527		
LS Beta:	: 116585.8005	SS Beta:	: 19984.2984	SS CPE:		: 1.5732		

Before Survey Background Counts Verification				Performed: Wed Dec 31 18:00:00 1969				
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 8	0.00	cps						

After Survey Background Counts Verification				Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00			cps	
Window 2	0.00			cps	
Window 4	0.00			cps	
Window 5	0.00			cps	
Window 6	0.00			cps	
Window 8	0.00			cps	

Lithodensity Caliper Calibration				Performed: Tue Oct 25 14:02:07 2022	
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
9378.6	12243.0	8.0	14.0	0.0	-11.8

Before Survey Caliper Verification				Performed:	
	Reference	Reading			
Caliper (in)	_____	_____			

After Survey Caliper Verification				Performed:	
	Reference	Reading			
Caliper (in)	_____	_____			

Compensated Neutron Calibration Report					
		Serial Number:		080621PMC	
		Tool Model:		NABORS	

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:		7			
Tool Model:		Probe1			
Performed:		Thu May 26 08:56:46 2022			
Calibrator Value:		1.0		GAPI	
Background Reading:		0.0		cps	
Calibrator Reading:		1.0		cps	
Sensitivity:		0.5500		GAPI/cps	