



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company LOTUS OPERATING CO., LLC.
Well #8 CR WETZ
Field STRANATHAN
County BARBER
State KANSAS

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Well #8 CR WETZ
Field STRANATHAN
County BARBER State KANSAS

Location: API # : 15-007-23732-0000

165' FNL & 660' FWL

SEC 1 TWP 35S RGE 12W

Permanent Datum GROUND LEVEL Elevation 1417
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL
SONIC
Elevation
K.B. 1426
D.F. 1424
G.L. 1417

Date 7/7/11

Run Number ONE

Depth Driller 5580

Depth Logger 5566

Bottom Logged Interval 5542

Top Log Interval 3700

Casing Driller 10 3/4" @ 255

Casing Logger 255

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.4/45

pH / Fluid Loss 11.0/10.4

Source of Sample FLOWLINE

Rin @ Meas. Temp .85 @ 93F

Rinf @ Meas. Temp .63 @ 83F

Rinc @ Meas. Temp 1.02 @ 93F

Source of Rinf / Rinc MEASUREMENT

Rin @ BHT .61 @ 129F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom

Maximum Recorded Temperature 129F

Equipment Number 0836

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By TIM HELLMAN

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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 HAYS, KANSAS (785) 628-6395
DIRECTIONS
MEDICINE LODGE KS., - 17 S. TO DRIFTWOOD RD. - 3/4 W. - N. INTO.

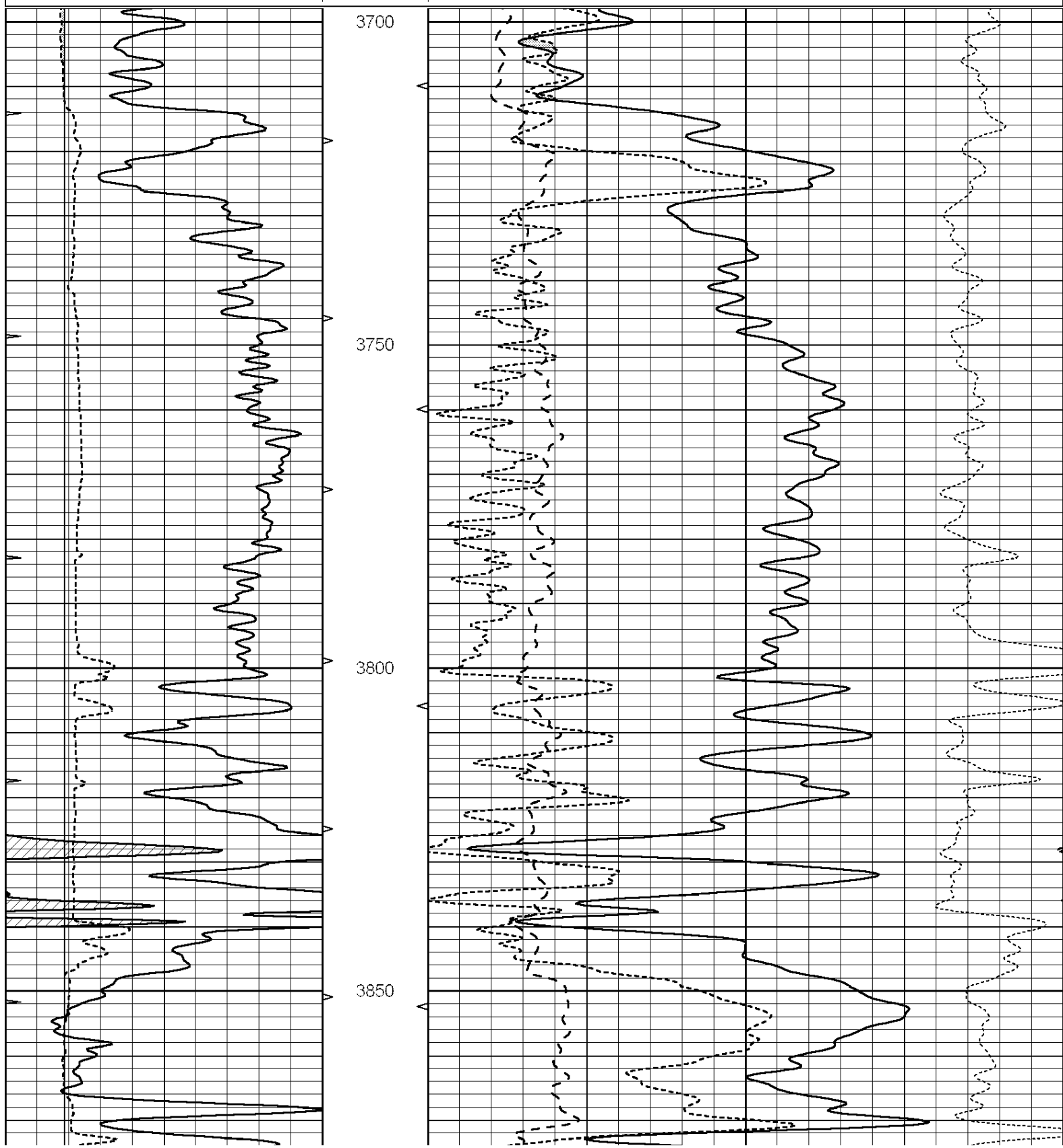


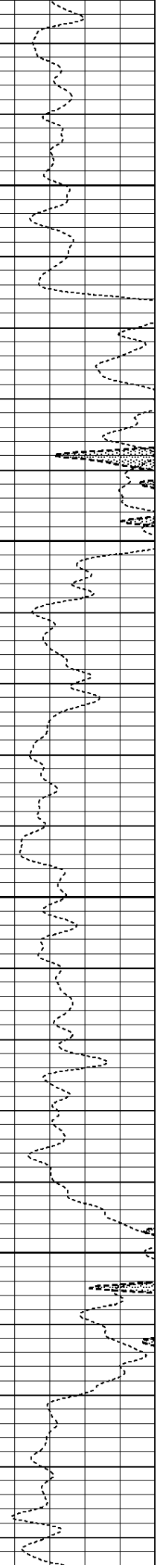
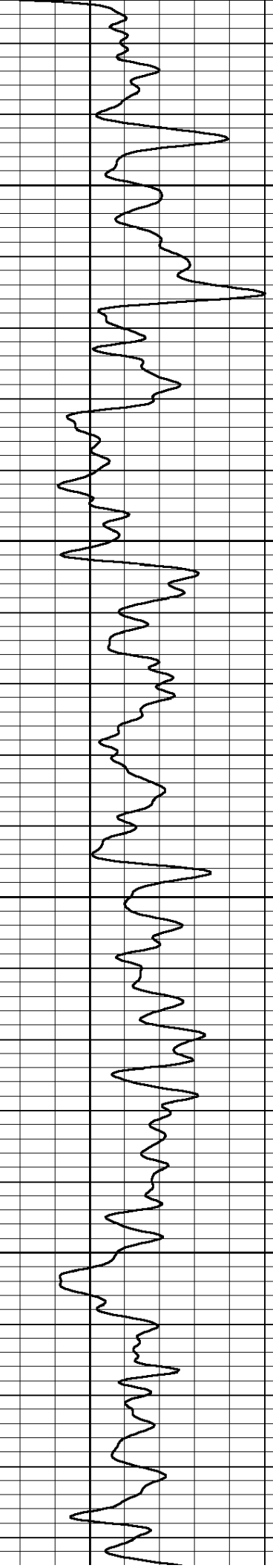
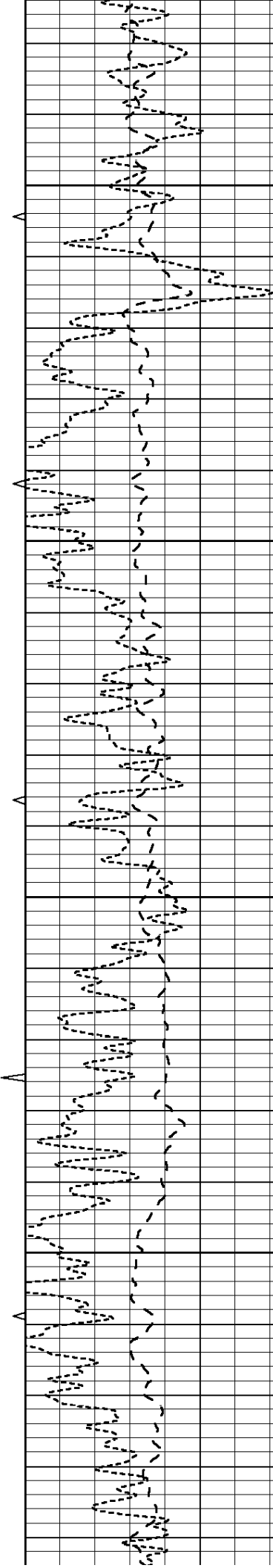
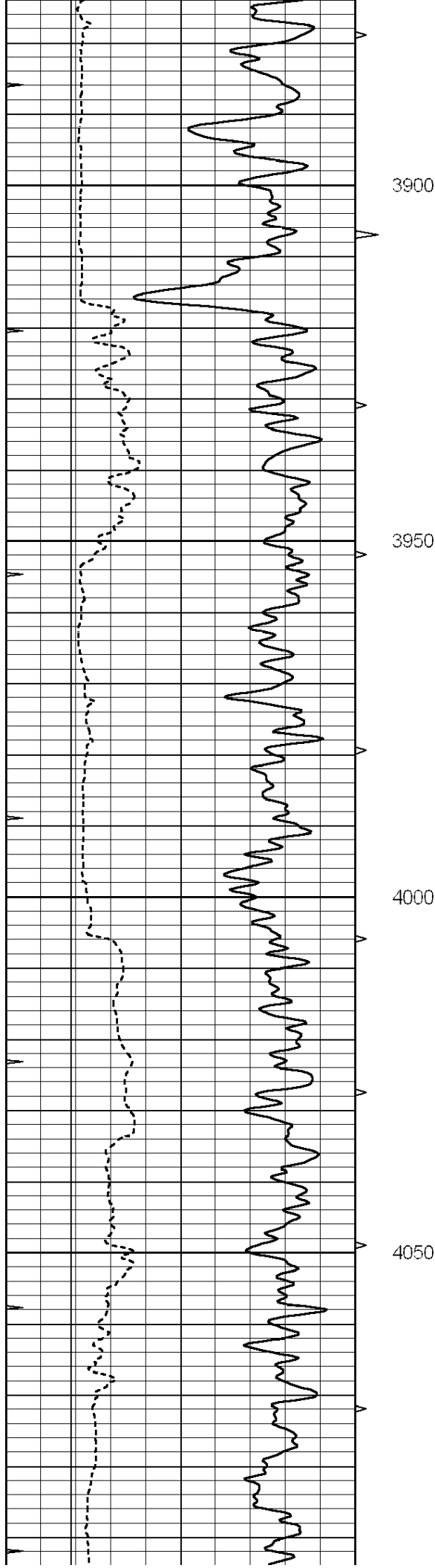
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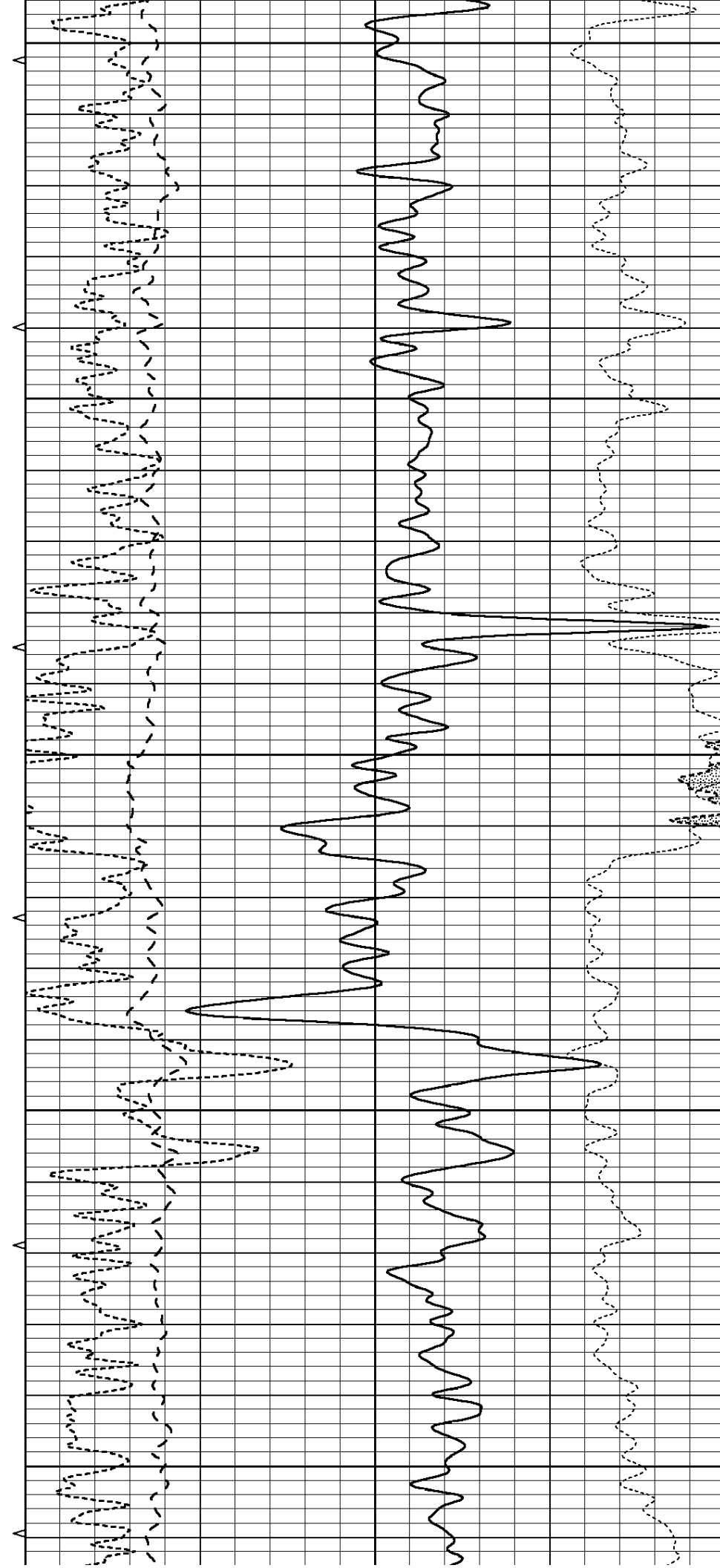
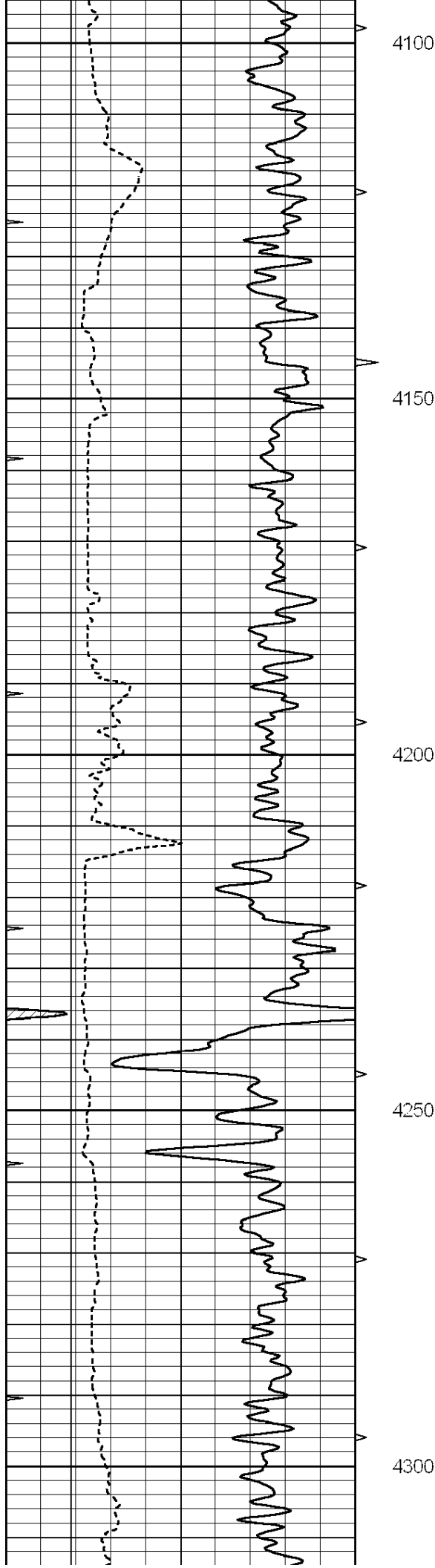
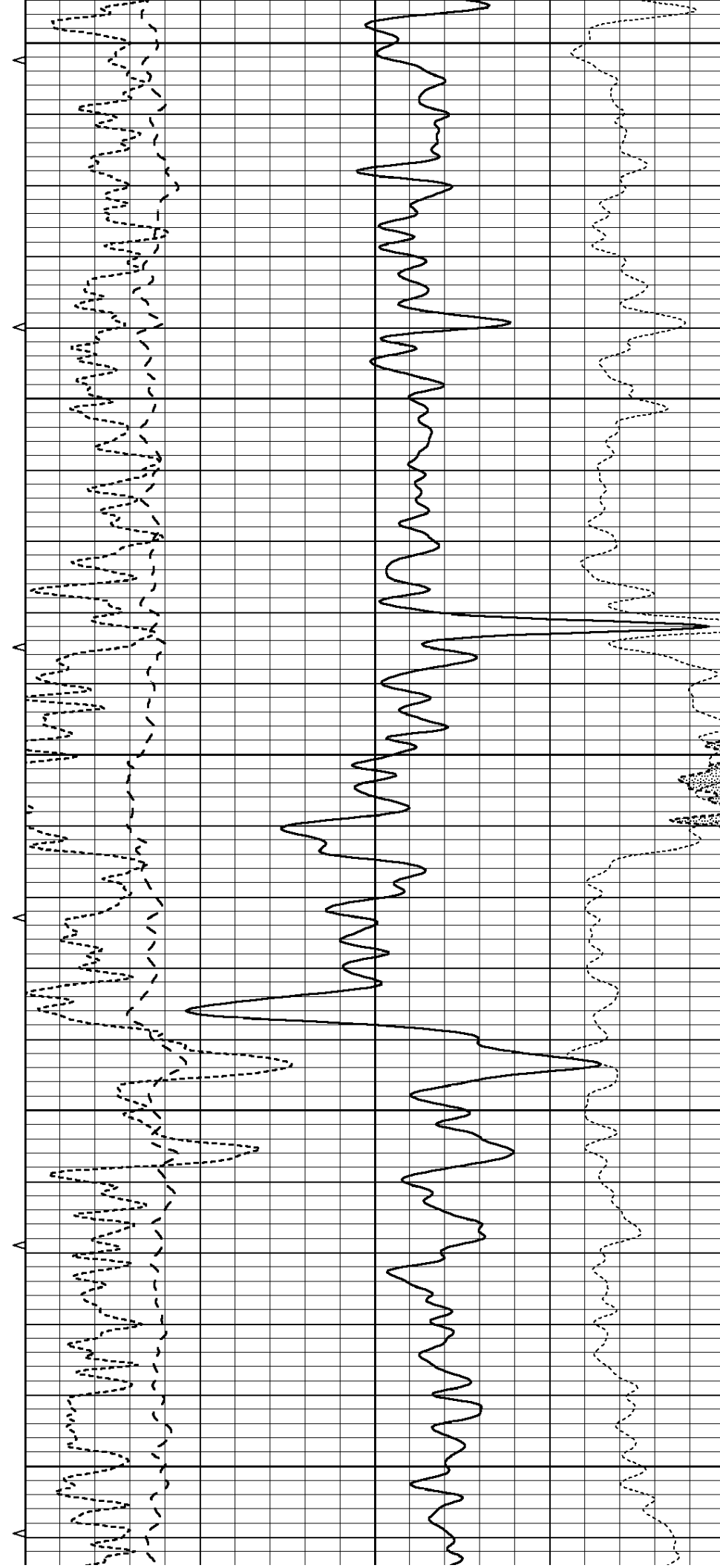
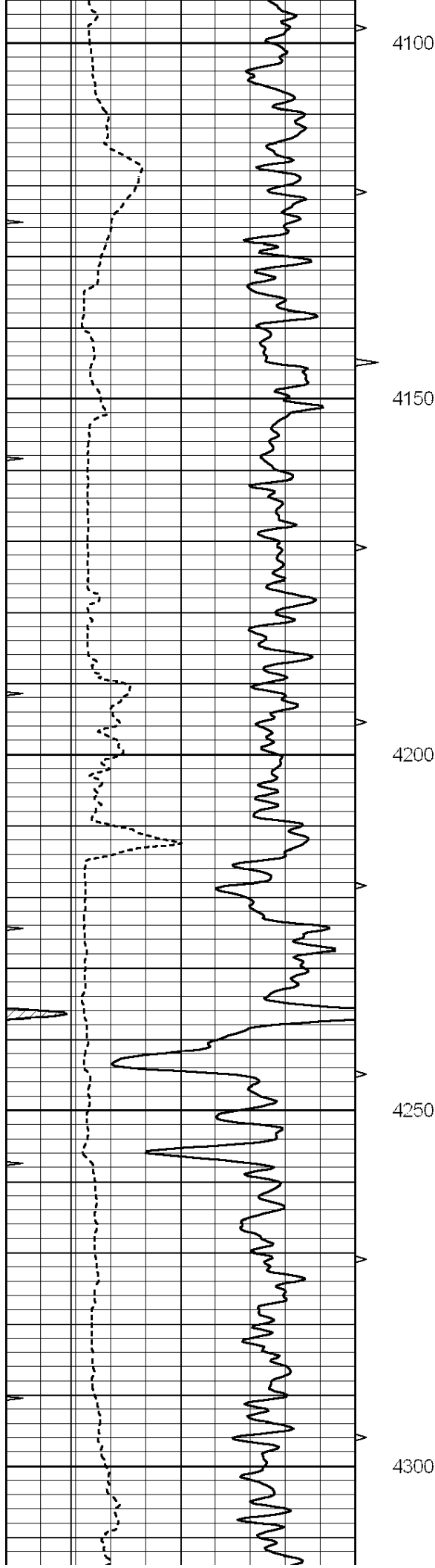
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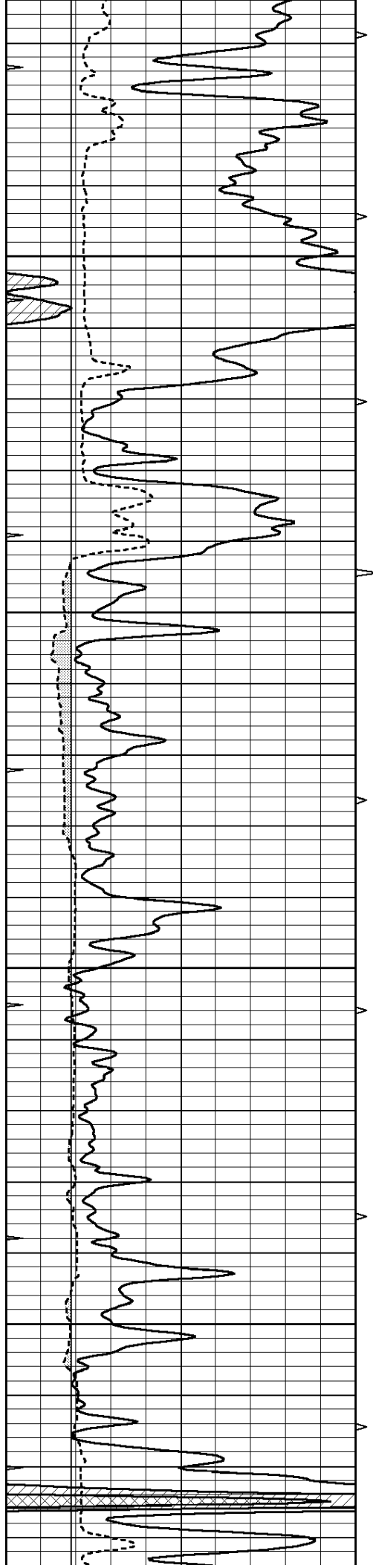
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 Charted by: Depth in Feet scaled 1:240

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		







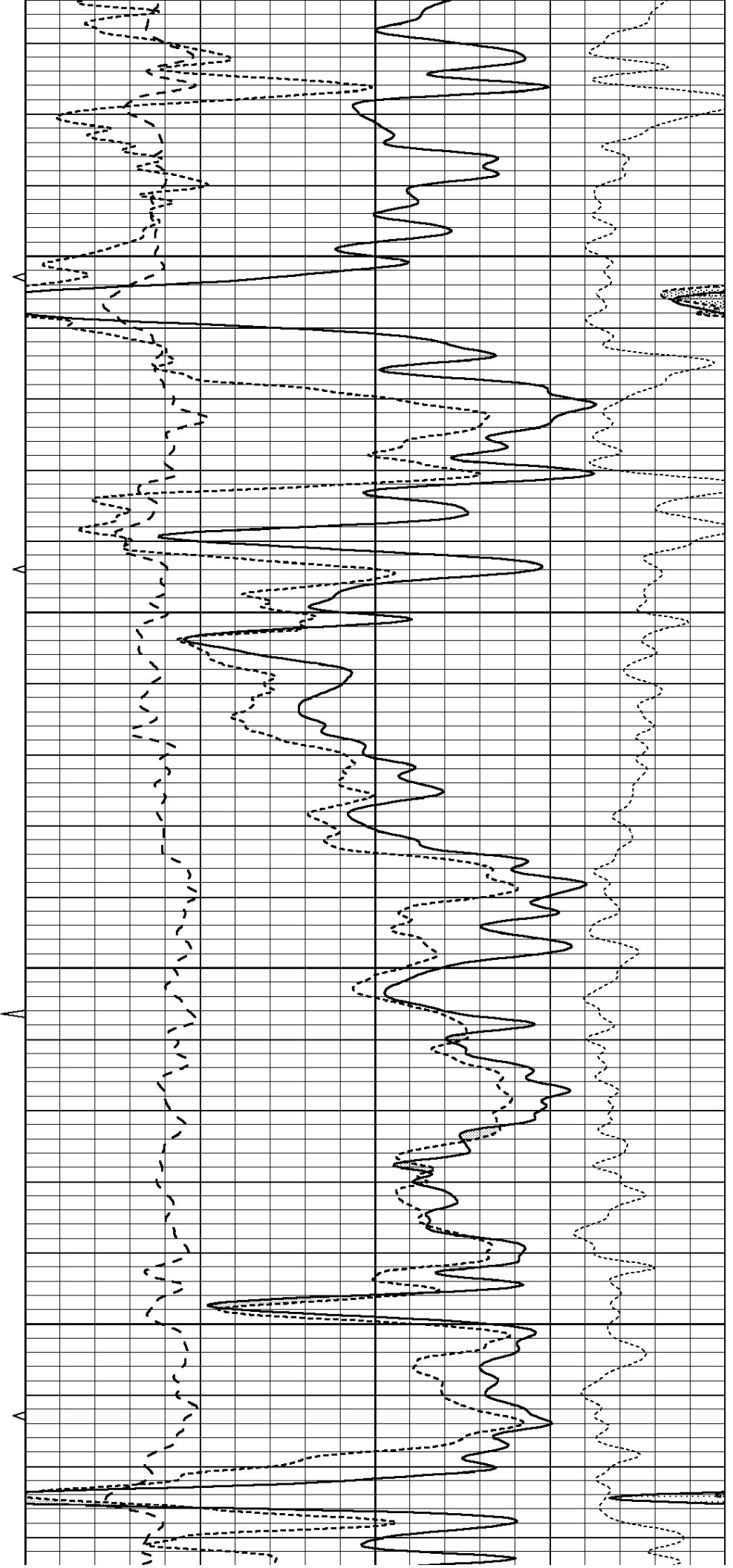


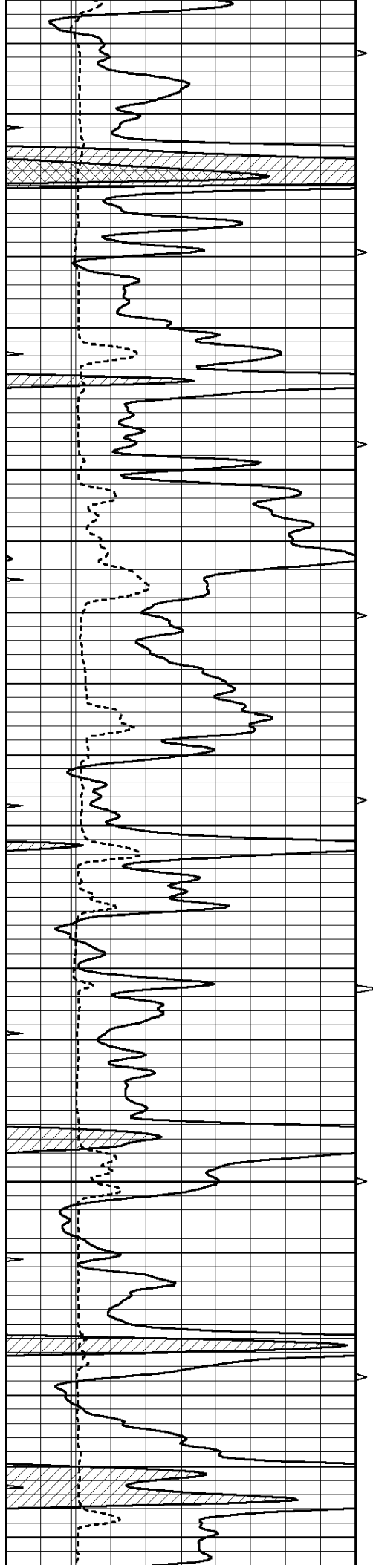
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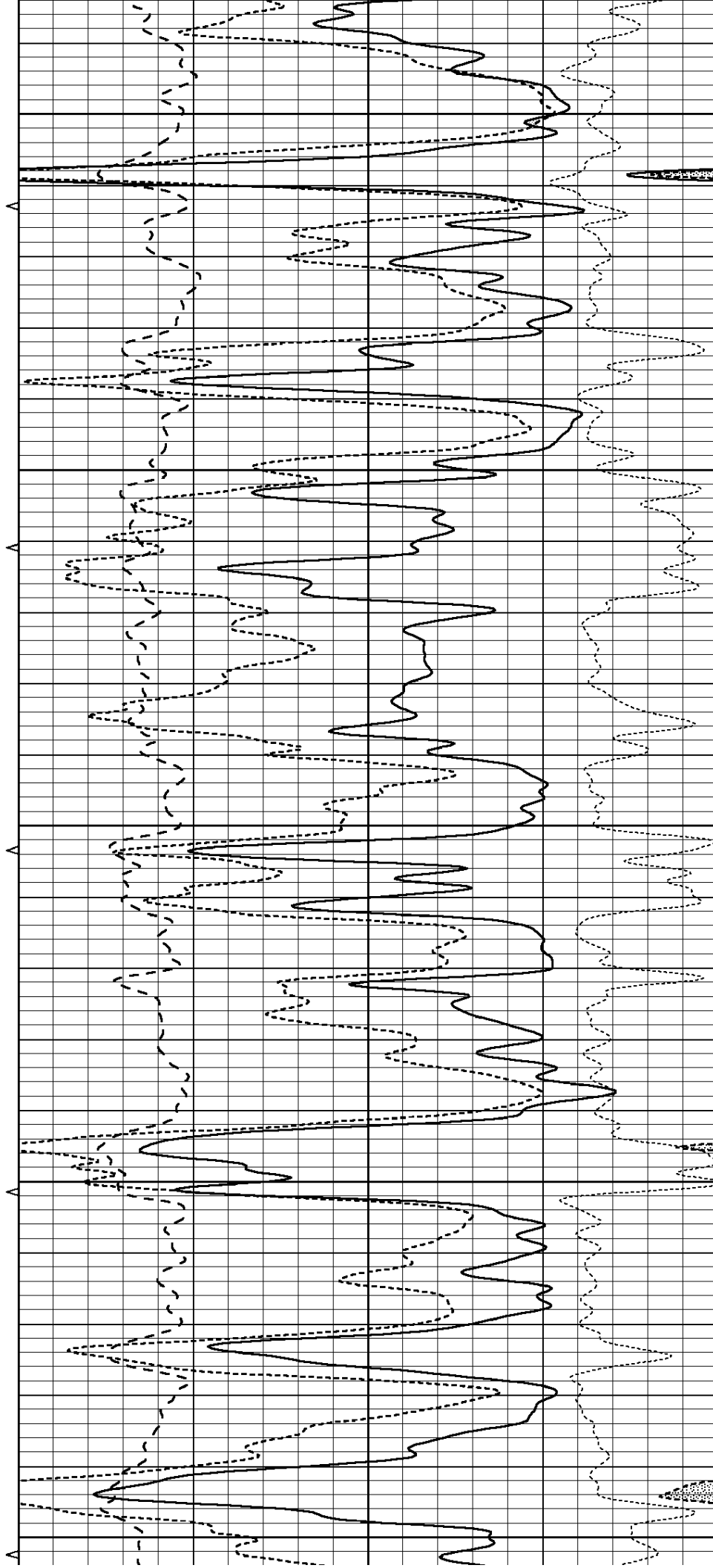
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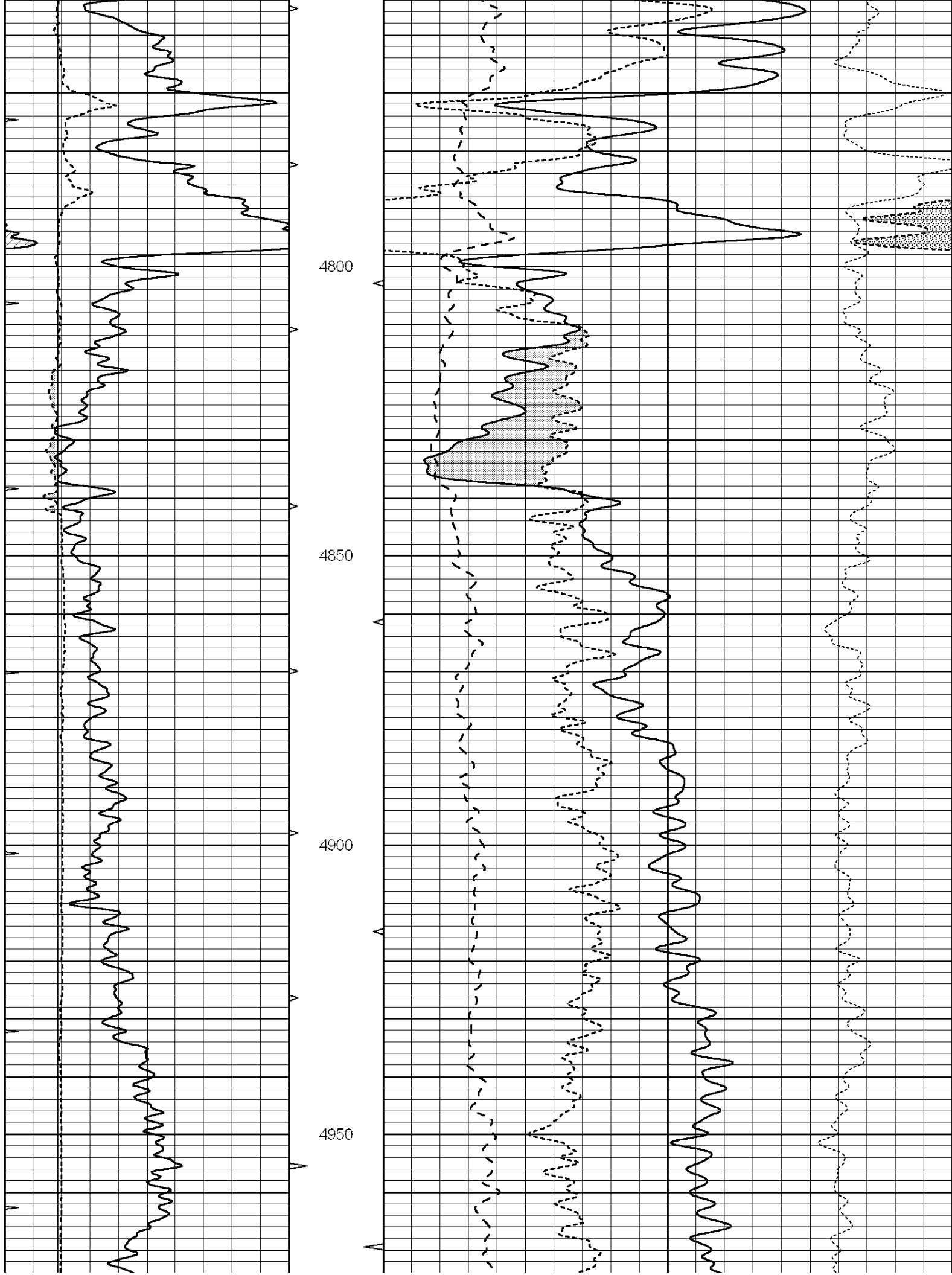
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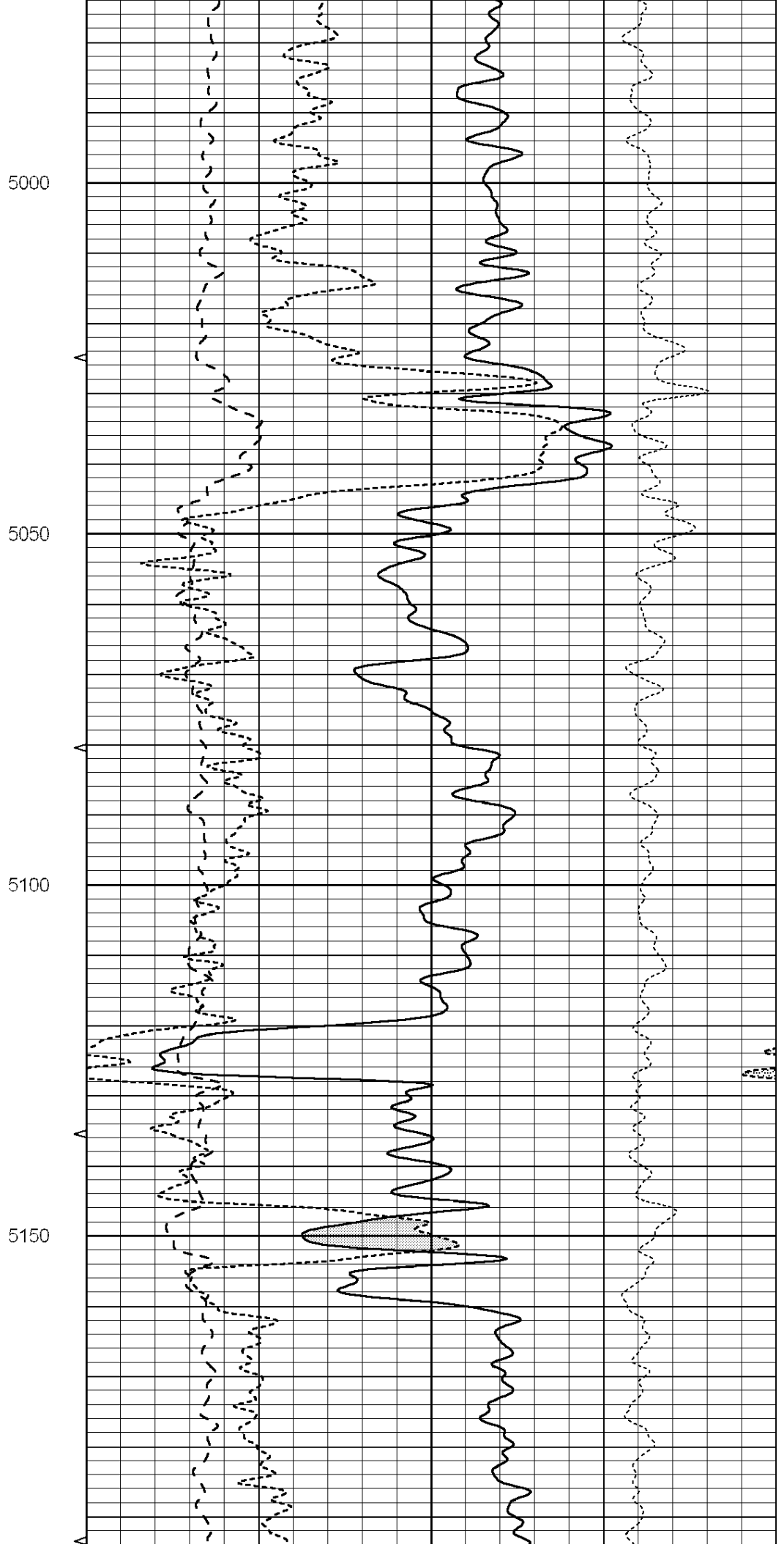
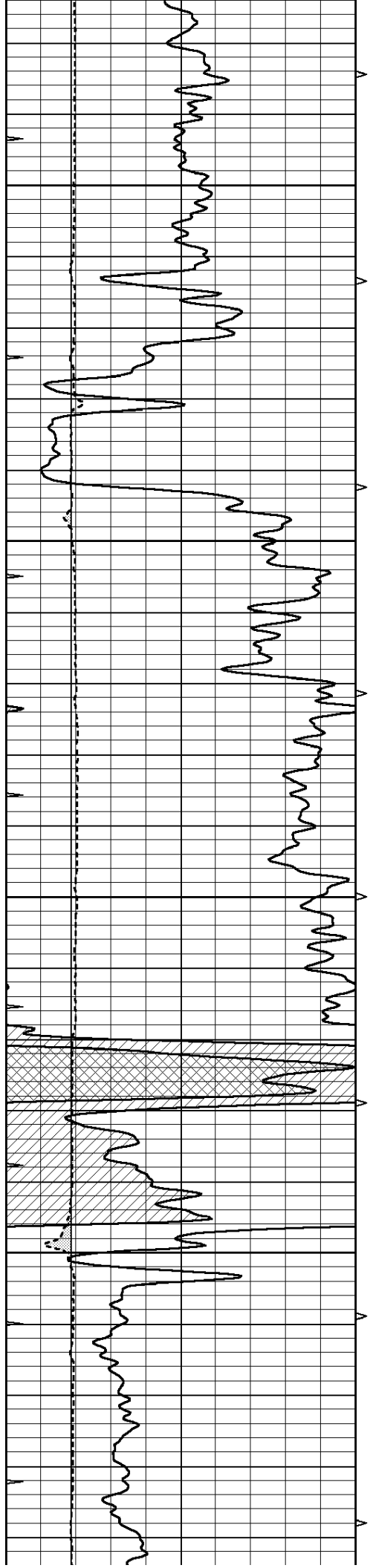
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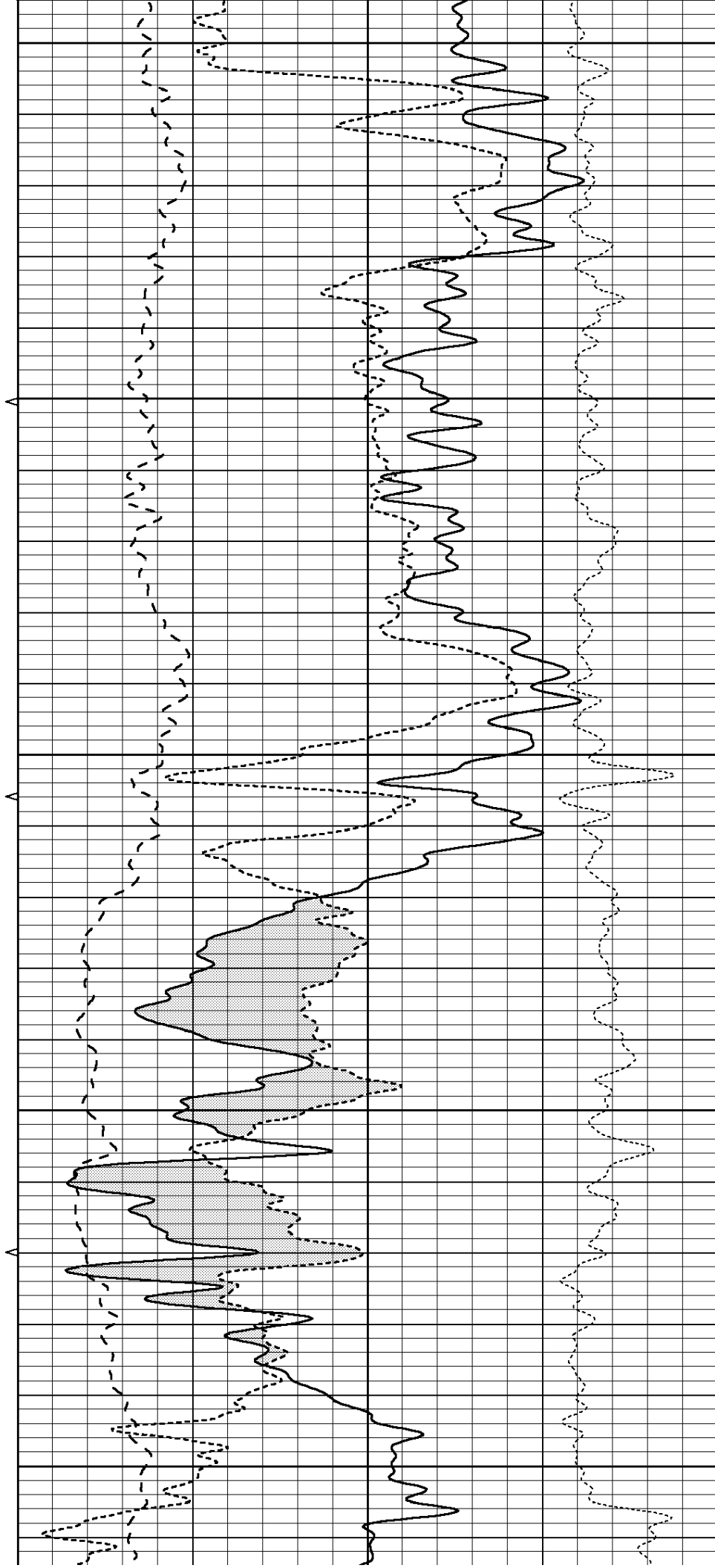
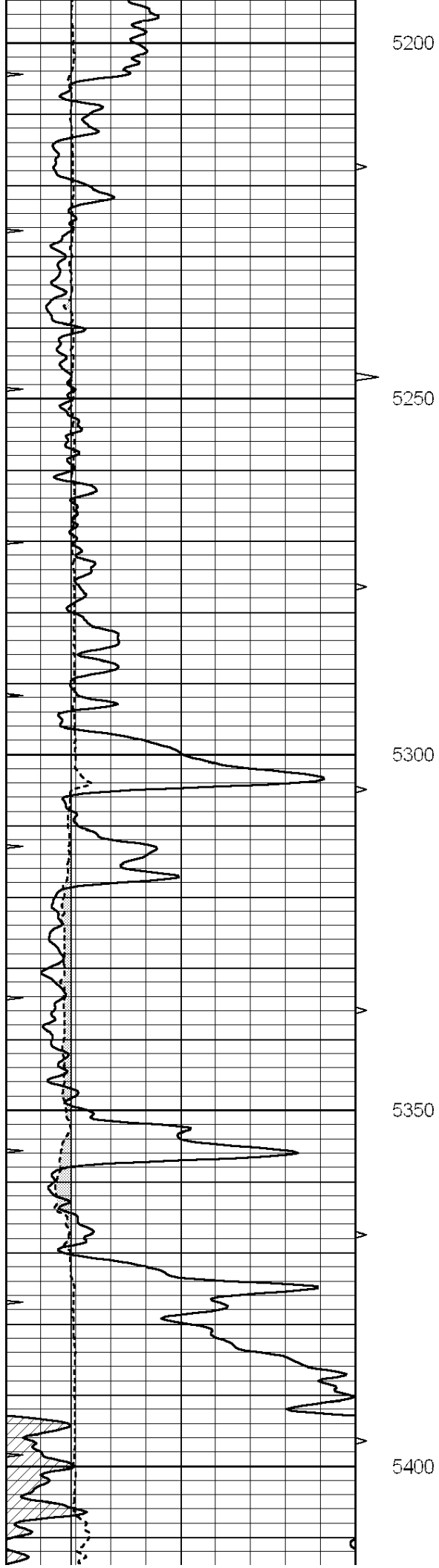
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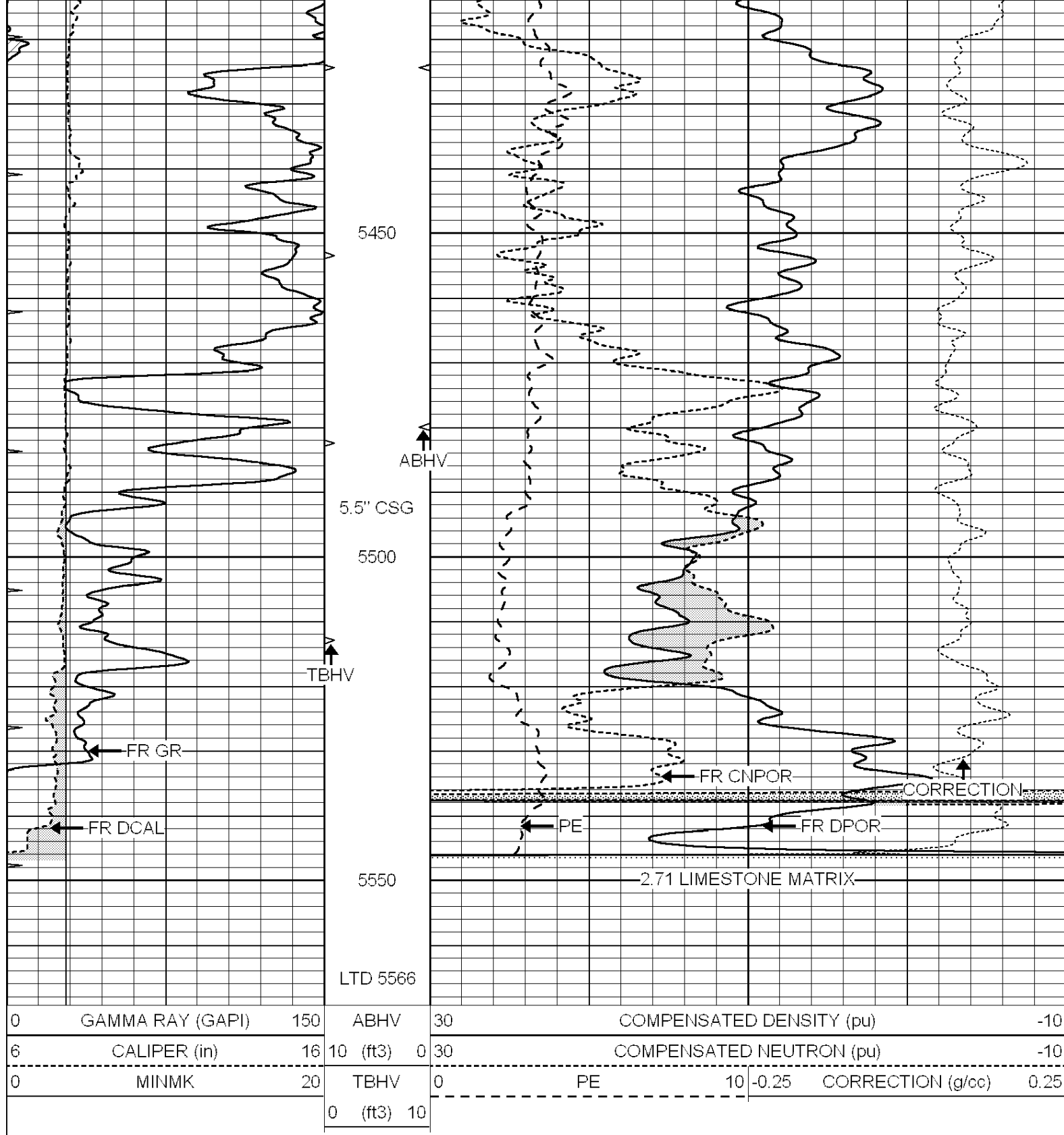
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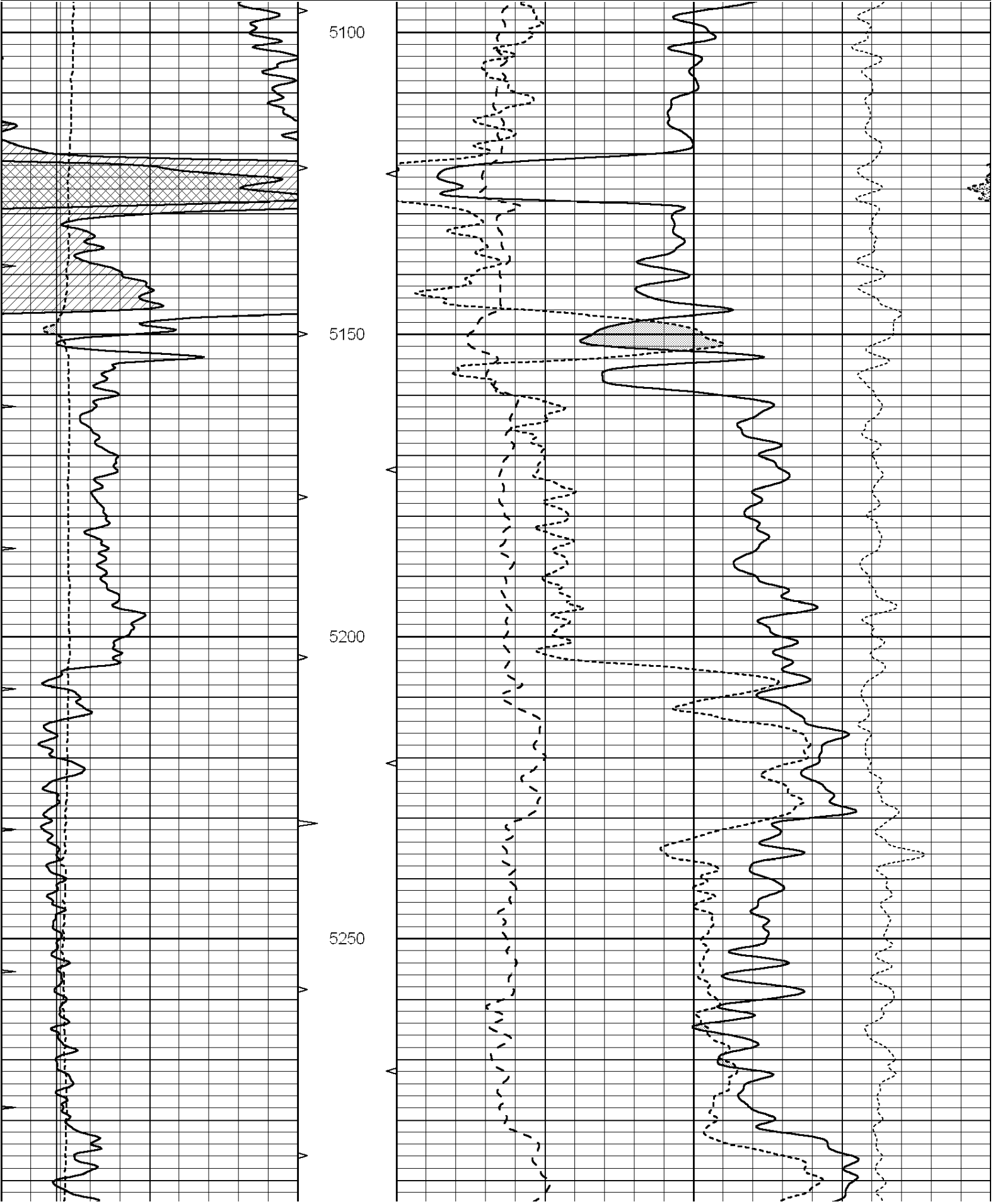


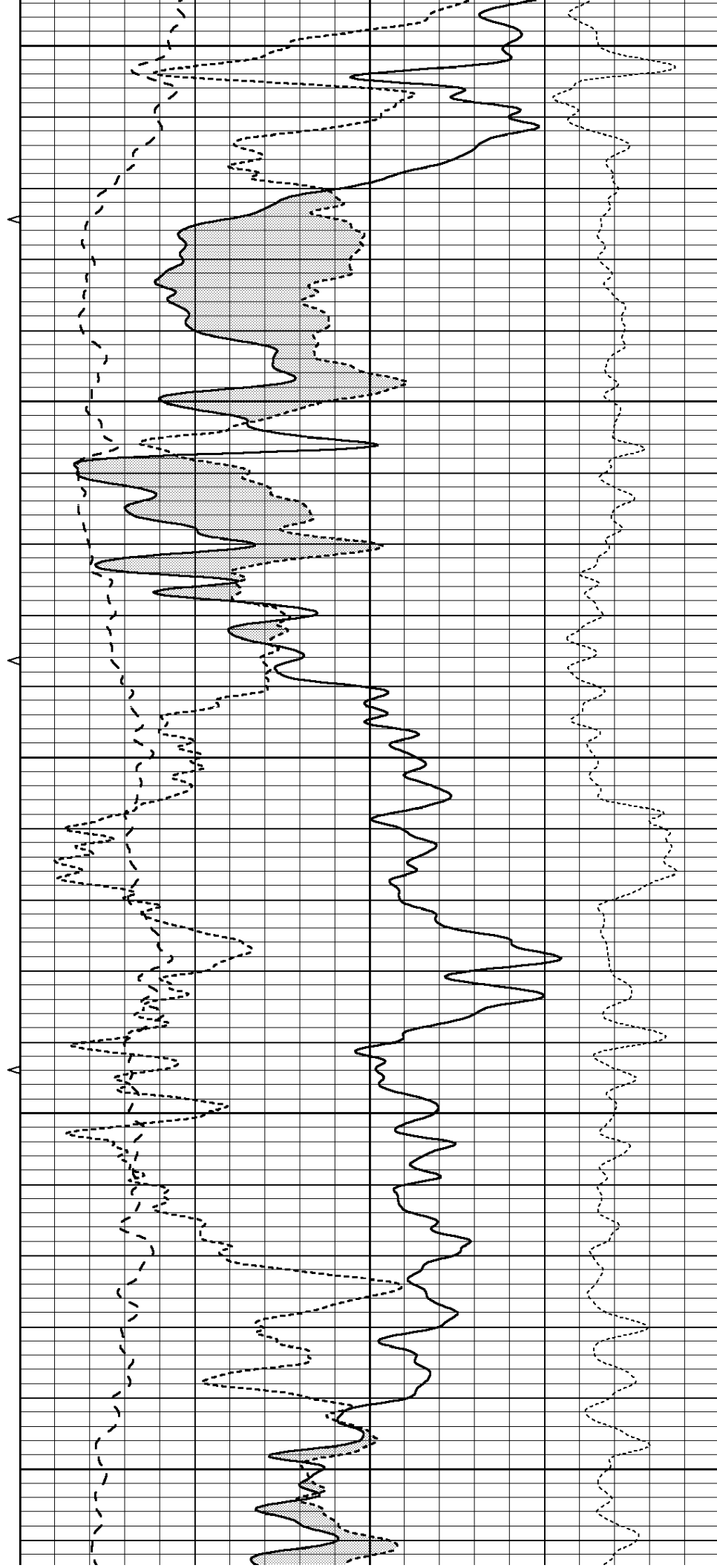
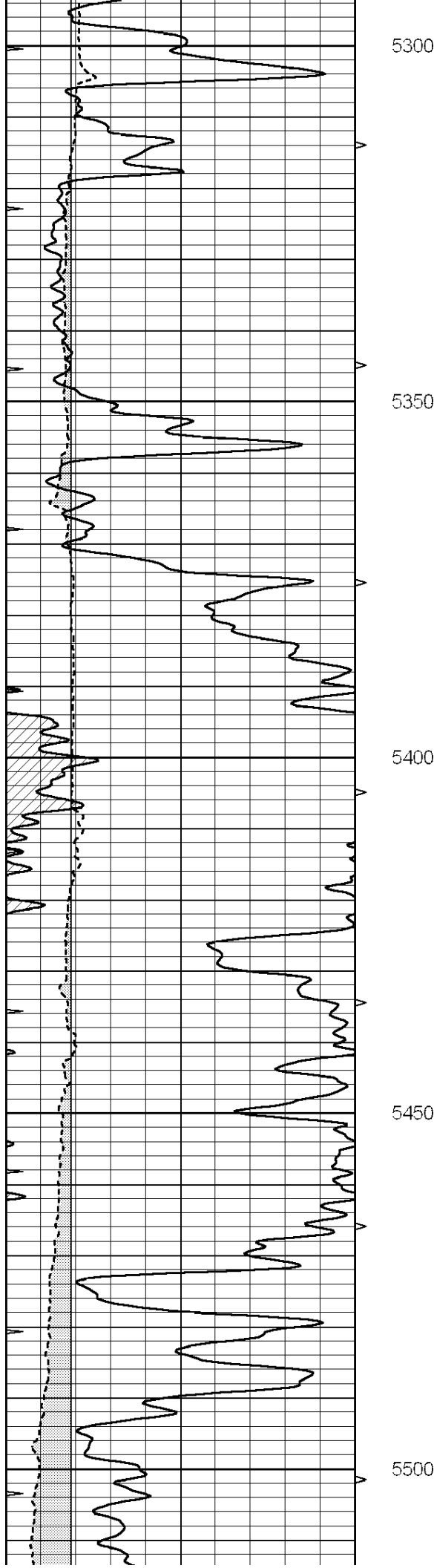
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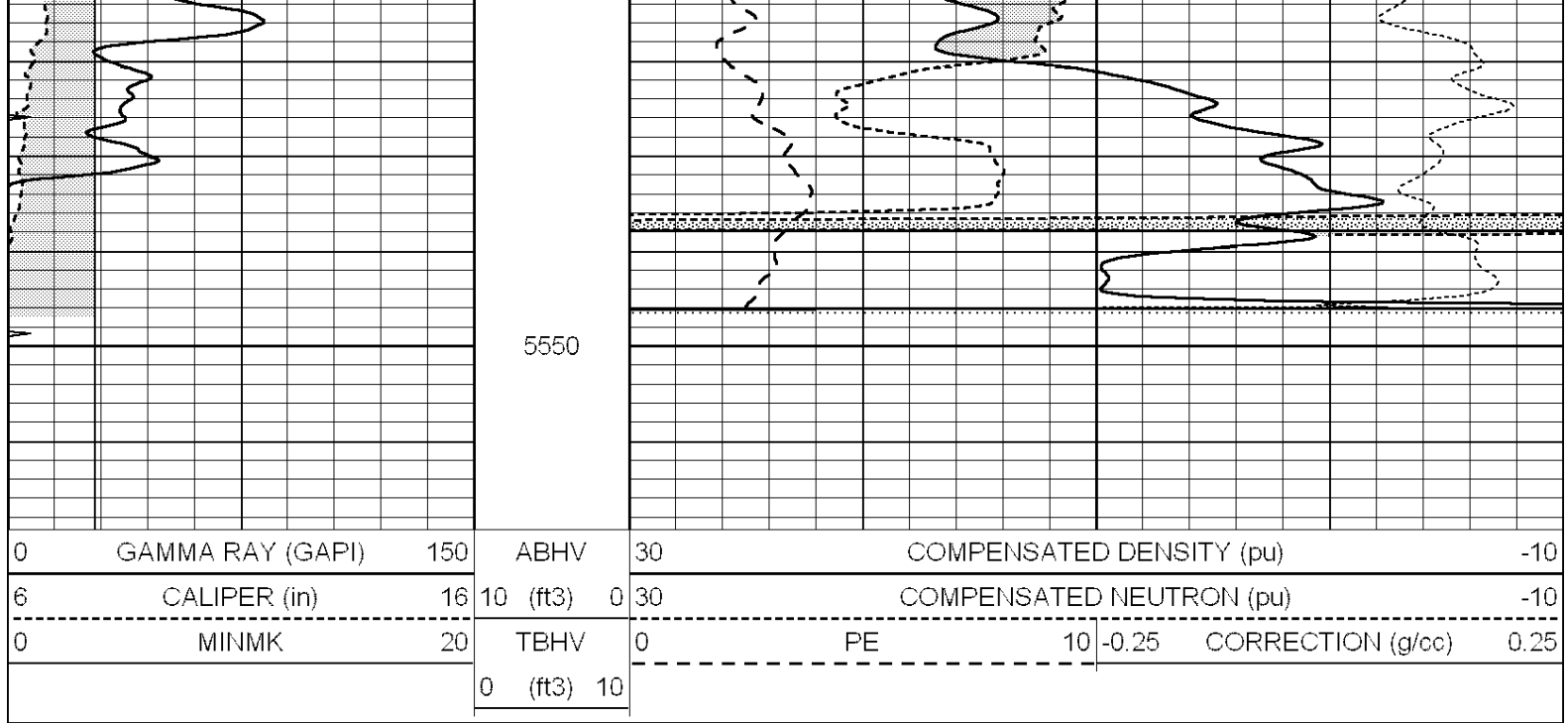
REPEAT SECTION

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 Dataset Creation: Thu Jul 07 20:53:04 2011 by Calc Open-Cased 110302
 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					







Calibration Report	
Database File:	006586pe.db
Dataset Pathname:	pass2.1
Dataset Creation:	Thu Jul 07 20:53:04 2011 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Jul 30 06:14:24 2008
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration								
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		

LLS	1.000	Ohm-m	1.000	Ohm-m
	0.000	Ohm-m	0.000	Ohm-m
	1.000	mmho-m	1.000	mmho-m

Litho Density Calibration Report				
Serial: 002 Model: PRB				
Performed Mon Oct 29 15:40:49 2007				

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1056.3	9118.0	2809.7	10378.4	cps
Window 2	969.9	7671.9	2431.6	8565.8	cps
Window 3	683.8	2939.8	1161.0	3161.8	cps
Window 4	231.4	231.6	226.7	230.8	cps
Long Space	0.0	6702.0	1461.7	7595.9	cps
Short Space	1.2	1433.6	959.4	1568.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.559
Spine Angle	: 75.2	Spine Slope	: 3.791	Spine Intercept	: -18.7

Caliper		
	Readings	Reference
Low Ref	2.1	7.0
High Ref	3.7	14.0
	Gain: 4.5	Offset: -6.1

Compensated Neutron Calibration Report	
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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	
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Serial Number:	#8
Tool Model:	OPEN
Performed:	Fri Jul 01 17:54:58 2011
Calibrator Value:	150.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	175.0 cps
Sensitivity:	0.8971 GAPI/cps