



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company	CITATION OIL & GAS CORP.		
Well	SLIMMER #9		
Field	BEMIS-SHUTTS		
County	ELLIS	State	KANSAS
Location:	API # : 15-051-26542-00-00		Other Services
2310' FSL & 2014' FWL		DIL/MEL	
W2 - NE - NE - SW			
SEC 19 TWP 11S RGE 16W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1926
Log Measured From	KELLY BUSHING 11' A.G.L.	D.F.	1935
Drilling Measured From	KELLY BUSHING	G.L.	1926
Date	6/15/13		
Run Number	ONE		
Depth Driller	3518		
Depth Logger	3518		
Bottom Logged Interval	3516		
Top Log Interval	2500		
Casing Driller	1205		
Casing Logger	1120		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	2.250
Density / Viscosity	9.1 / 52		
pH / Fluid Loss	10.5 / 8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.55 @ 92F		
Rmf @ Meas. Temp	0.41 @ 96F		
Rmc @ Meas. Temp	0.66 @ 96F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.47 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	ED GLASSMAN		

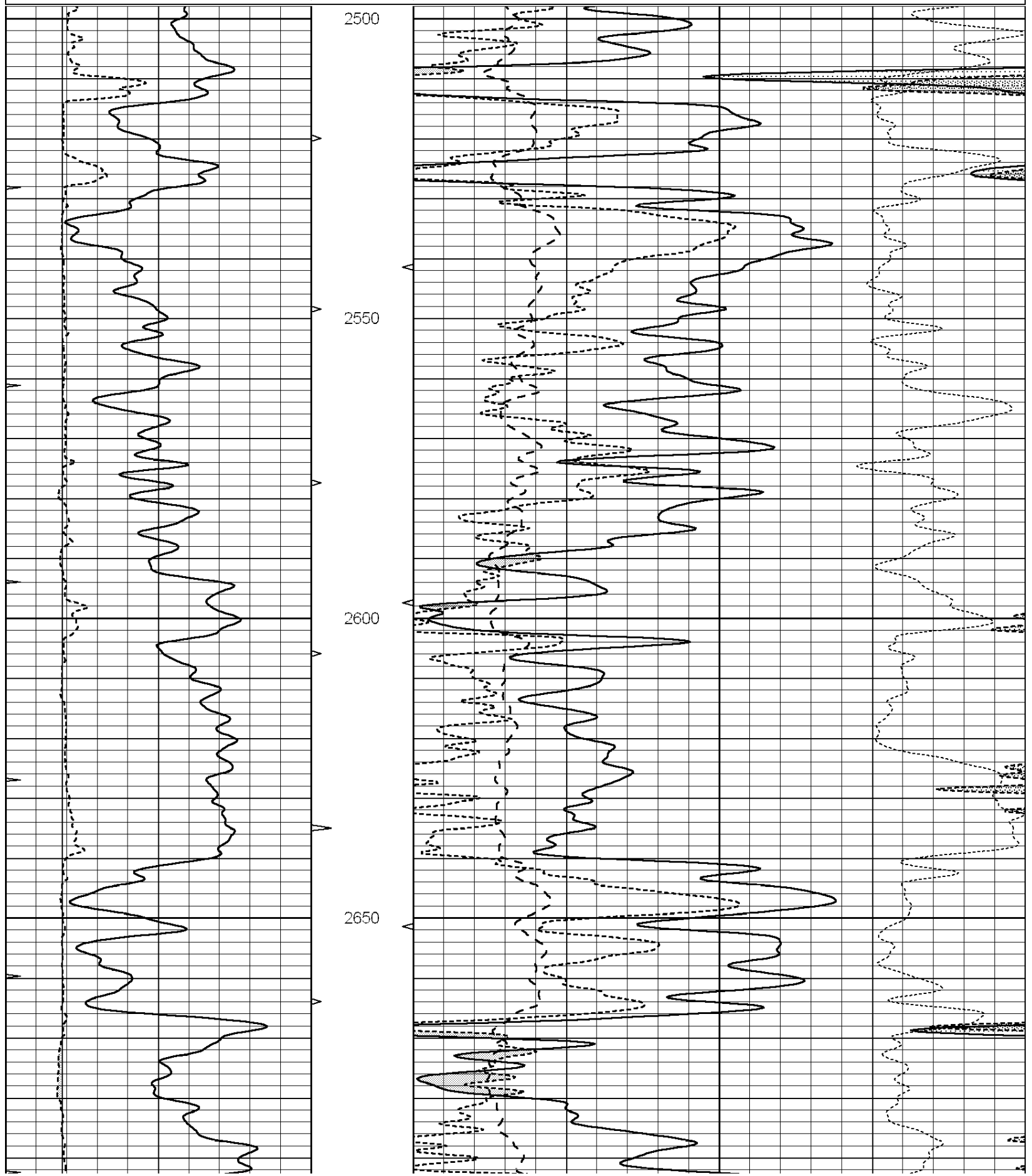
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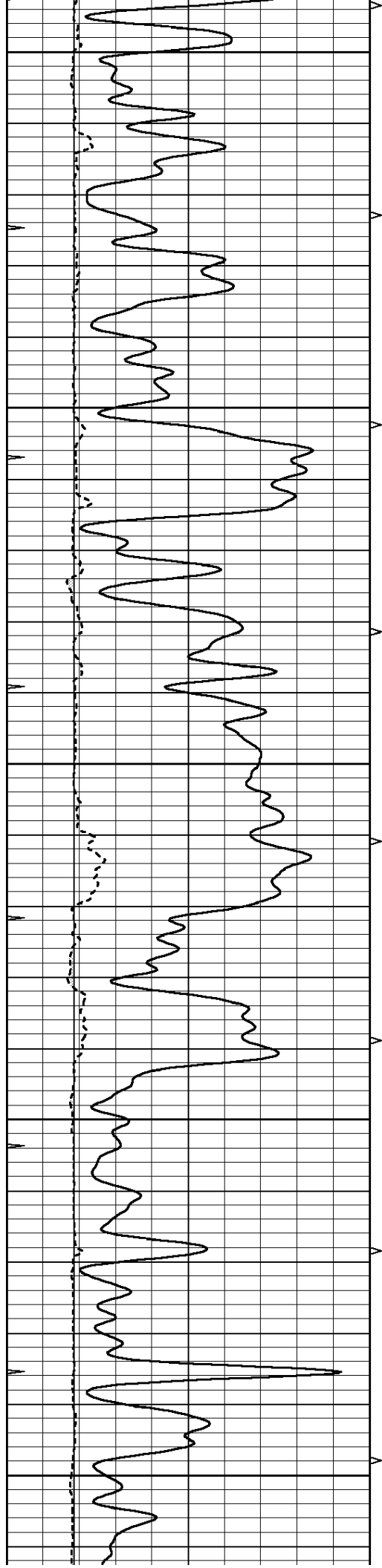
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HAYS, KS. - SOUTH HWY 183 TO RIVER RD. - EAST 8.5 MILES SOUTH INTO

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			





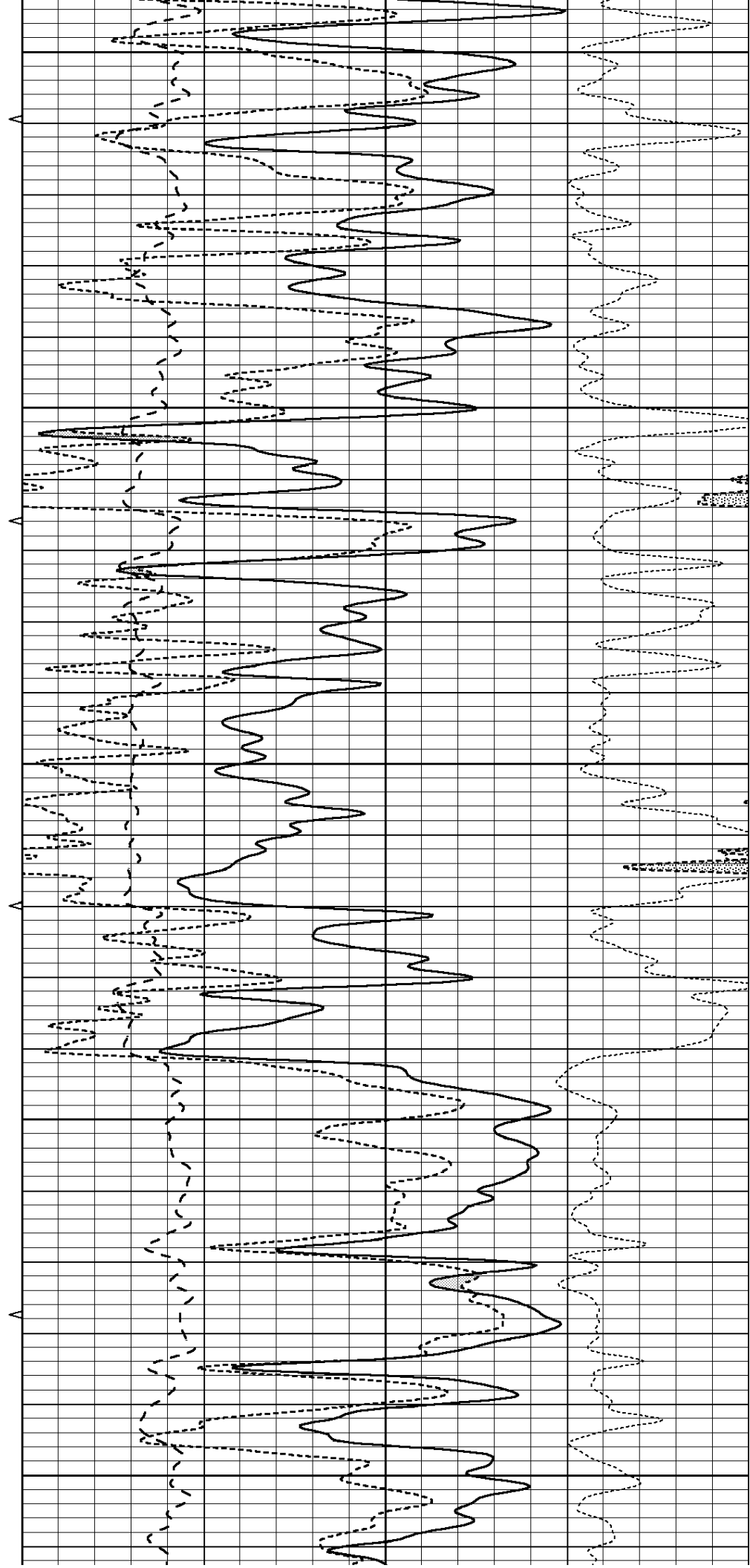
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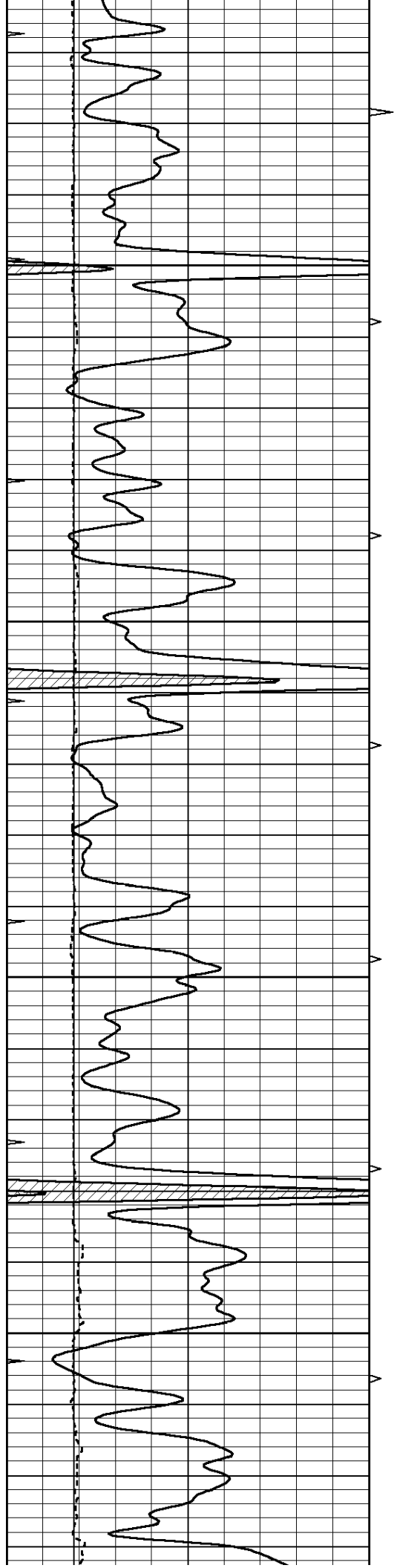
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2800

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2900



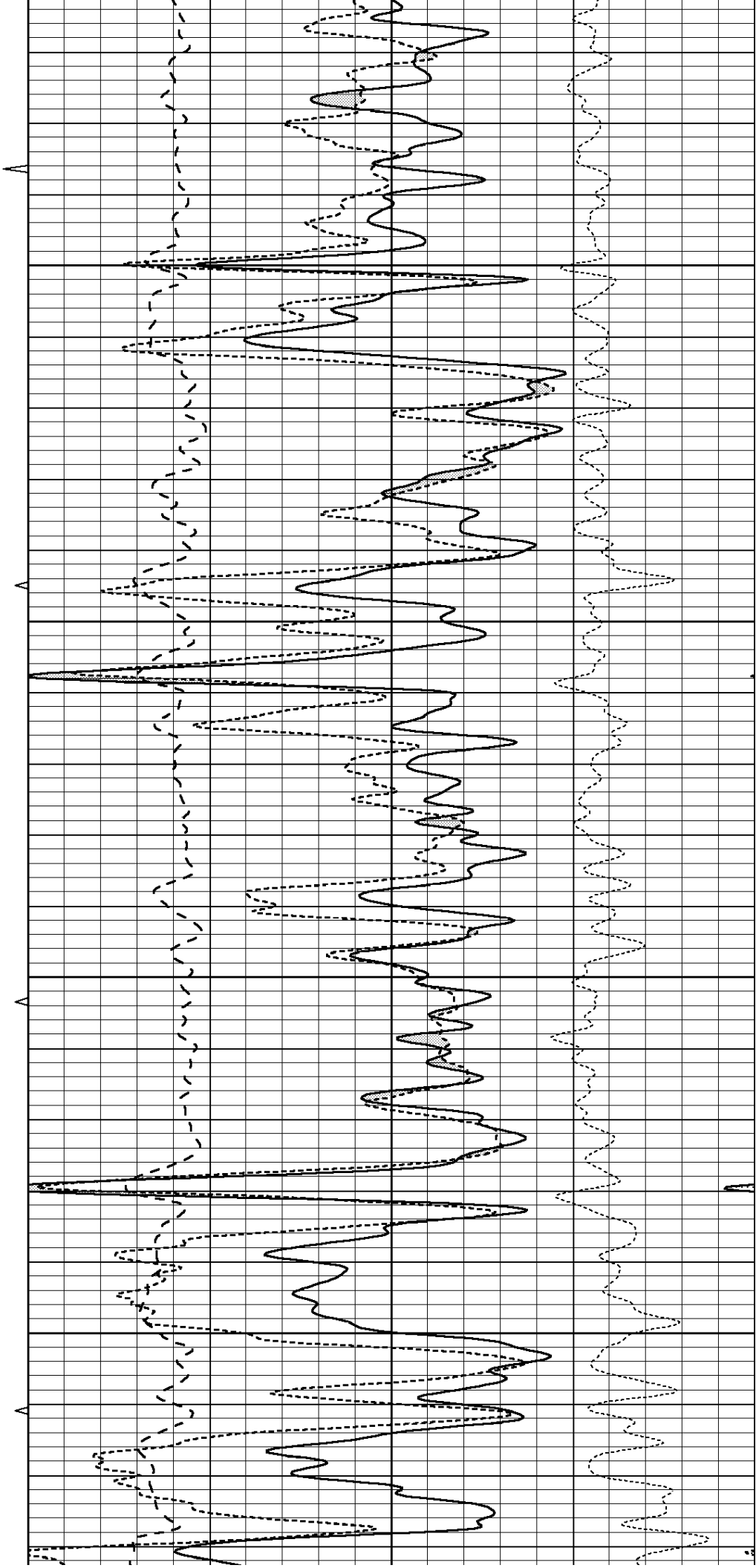


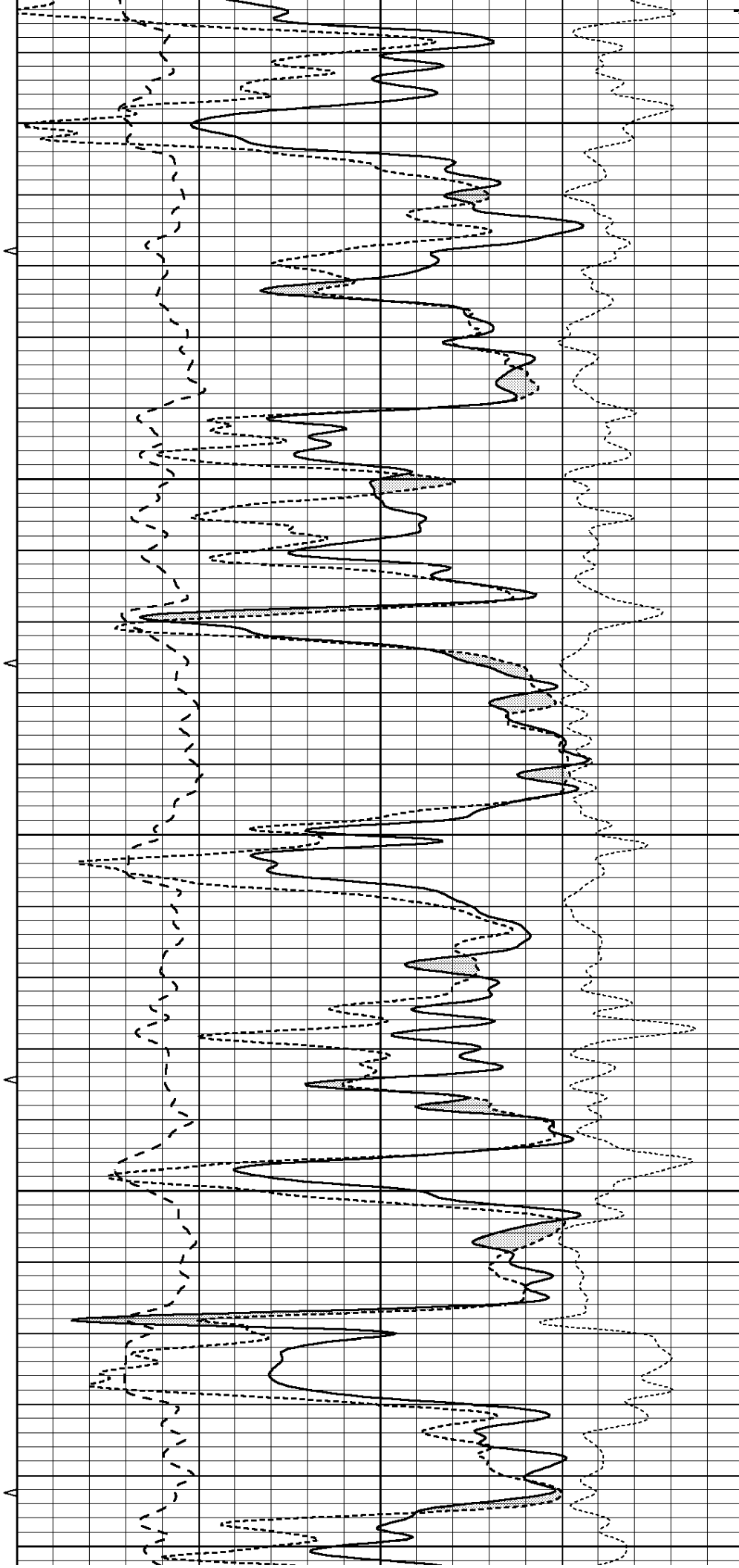
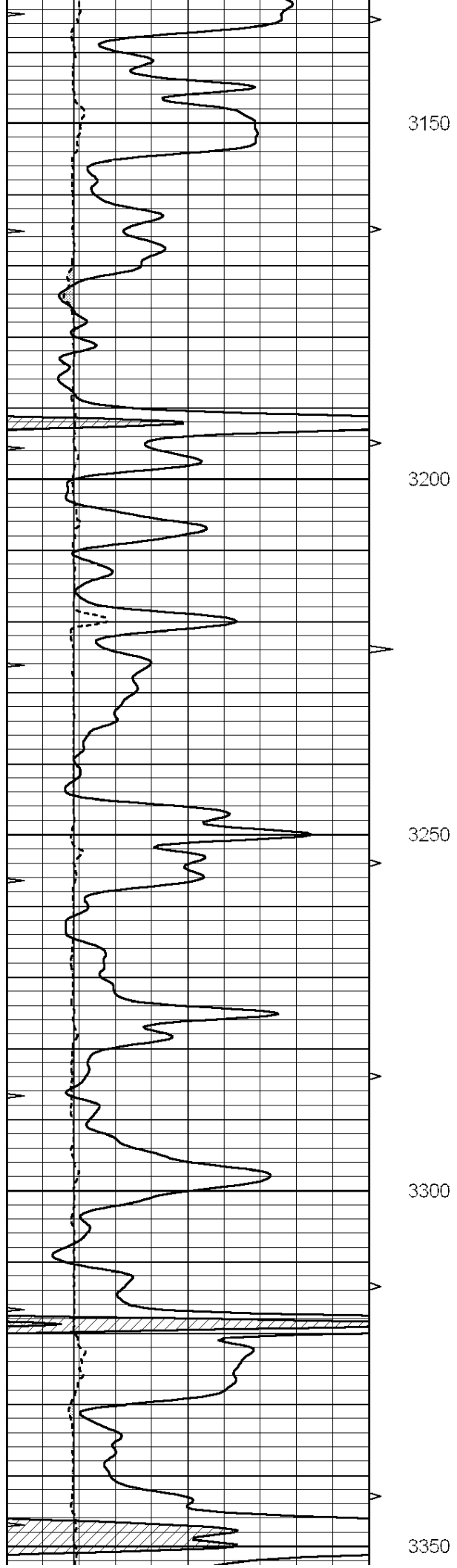
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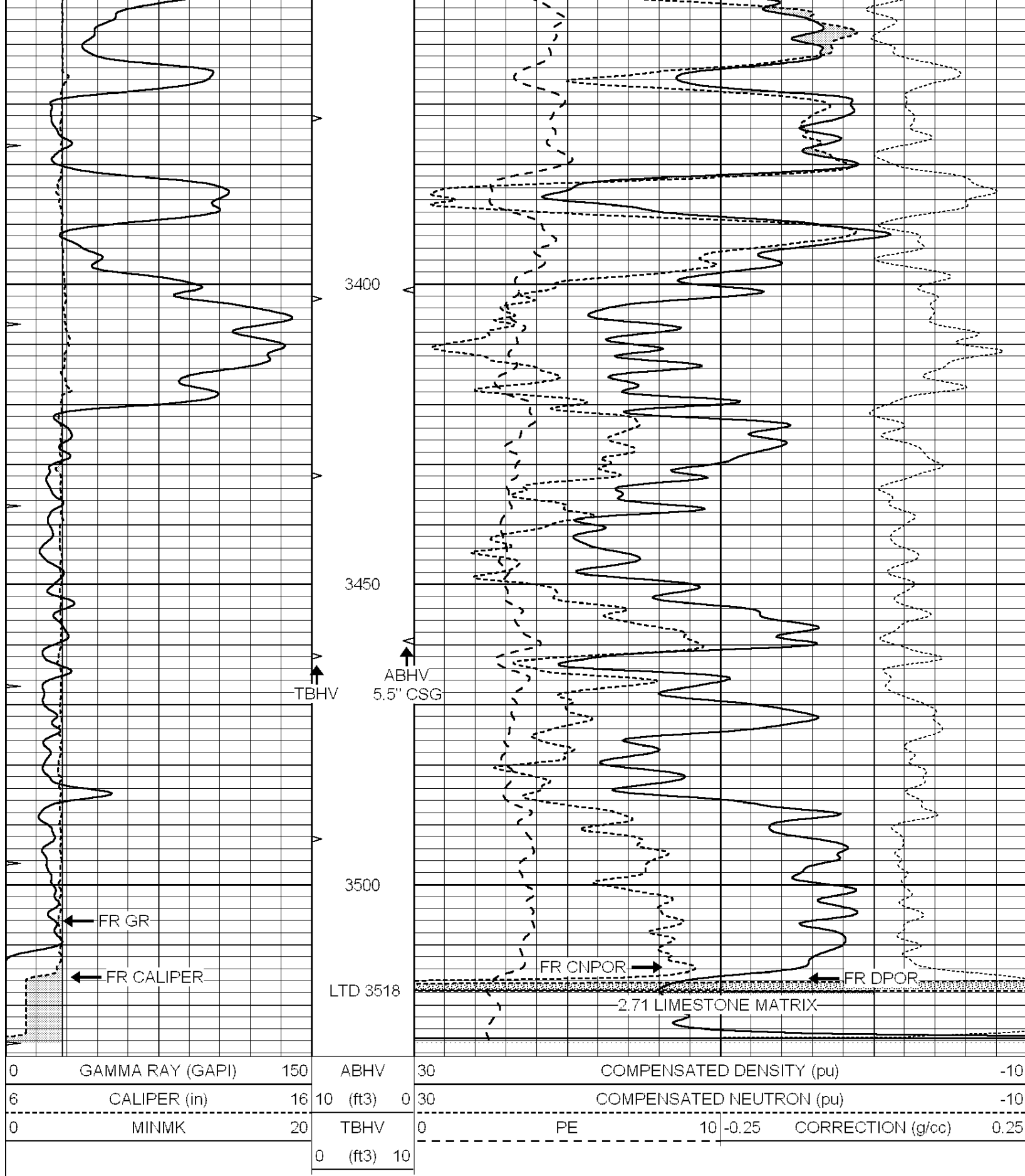
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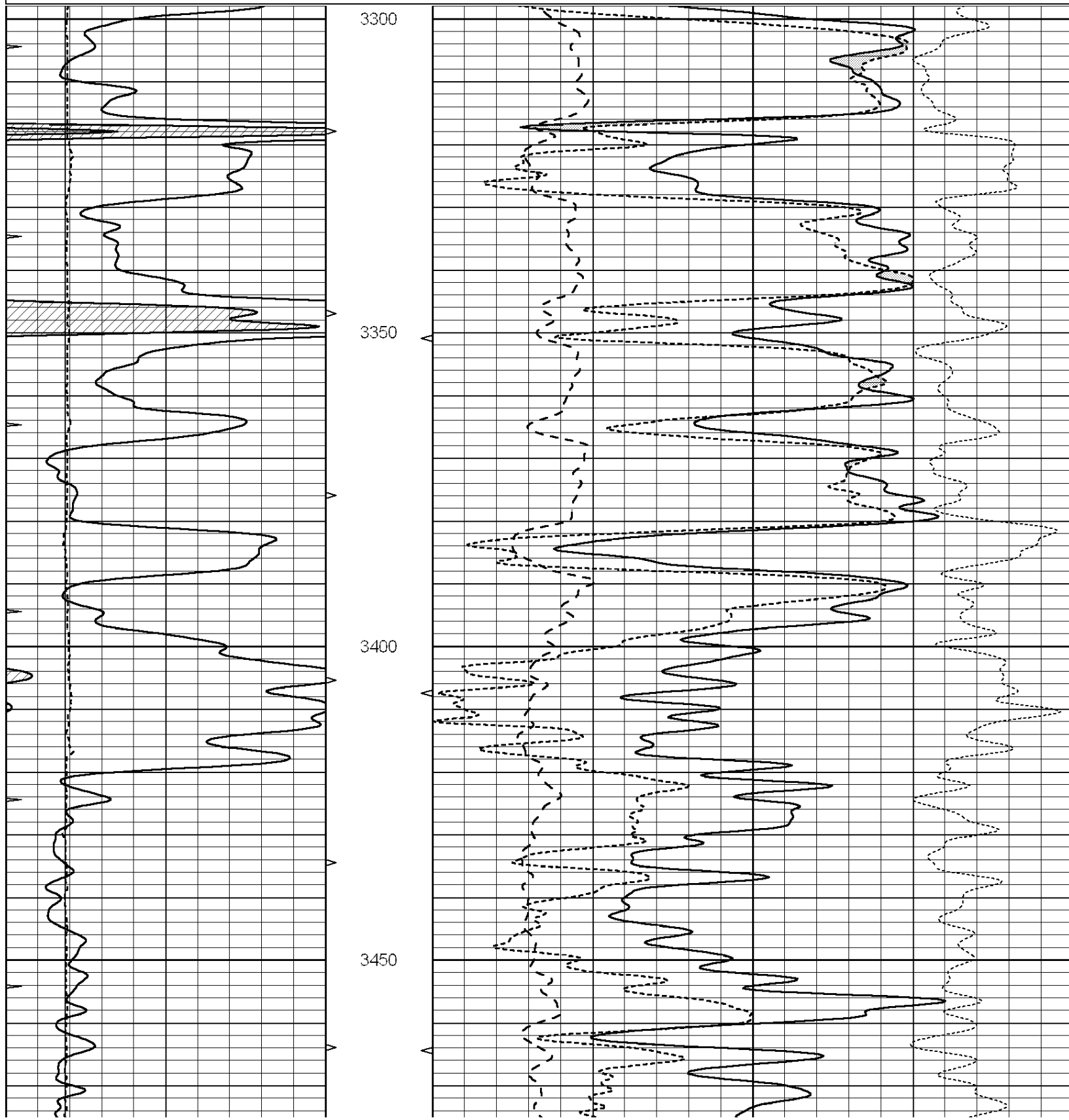


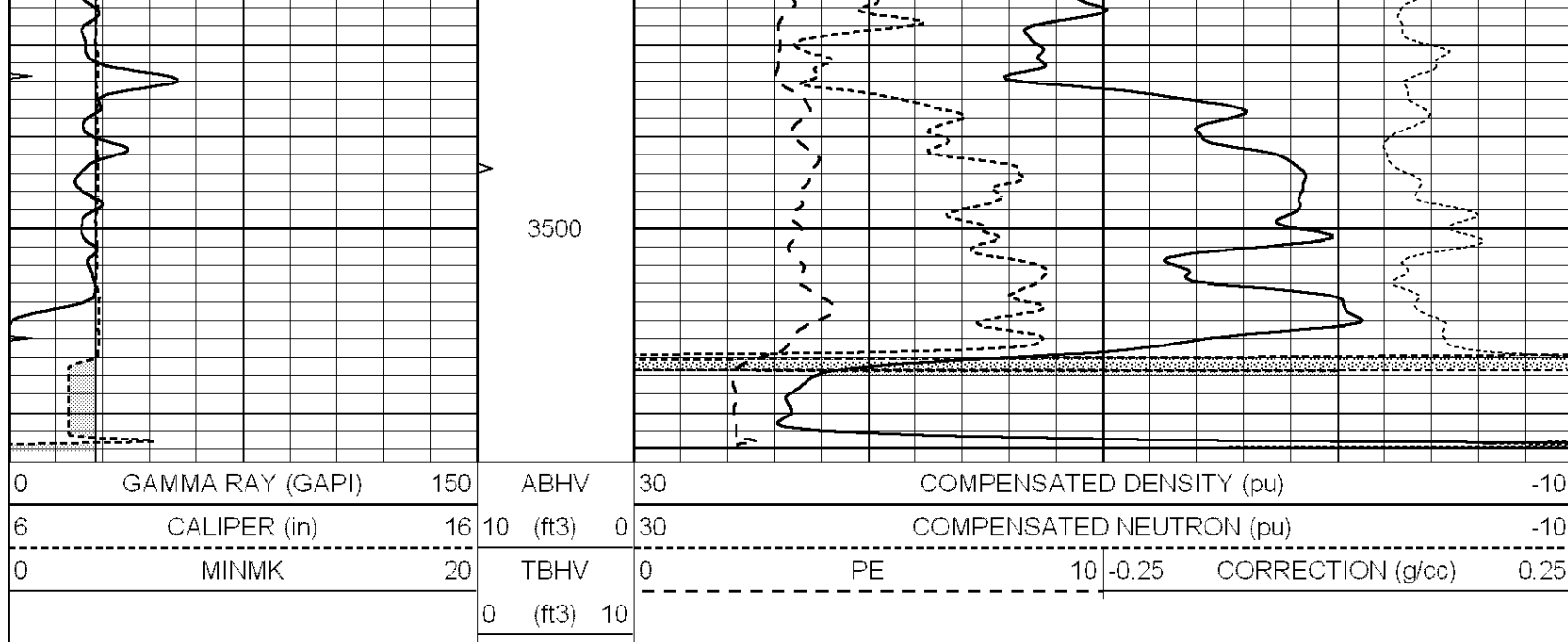




Database File:	010192pe.db
Dataset Pathname:	pass5.2
Presentation Format:	_ldt_neu
Dataset Creation:	Sun Jun 16 00:23:23 2013 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	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: 010192pe.db
Dataset Pathname: pass6.7
Dataset Creation: Sun Jun 16 01:47:22 2013 by Calc Open-Cased 090629

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

	Readings	Reference	
Low Ref	1.8	8.4	
High Ref	6.1	14.0	
Gain: 2.1			Offset: -0.5

Compensated Neutron Calibration Report

Serial Number: NEU_4I
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:	Fri May 10 07:15:14 2013

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.8000	GAPI/cps
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