



**SUPERIOR
Hays,
Kansas**

COMPENSATED DENSITY / NEUTRON LOG

Company PALOMINO PETROLEUM, INC.
Well BASGALL - SANTEE #1
Field SMOKEY HILL NORTH
County TREGO
State KANSAS

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Field SMOKEY HILL NORTH
County TREGO State KANSAS

Location: API # : 15-195-22788
466' FNL & 136' FWL
SEC 16 TWP 15S RGE 23W
Permanent Datum GROUND LEVEL Elevation 2283
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
SONIC/MEL
Elevation
K.B. 2291
D.F.
G.L. 2283

Date	6-1-12		
Run Number	ONE		
Depth Driller	4340		
Depth Logger	4340		
Bottom Logged Interval	4316		
Top Log Interval	3350		
Casing Driller	210		
Casing Logger	210		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 46		
pH / Fluid Loss	9.0 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.90 @ 80F		
Rmf @ Meas. Temp	0.68 @ 80F		
Rmc @ Meas. Temp	1.08 @ 80F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.610 @ 118F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:15 A.M.		
Maximum Recorded Temperature	118F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	PHIL ASKEY		

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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: WAKEENEY, 17S TO RD. "AA", 1/4E, S INTO.

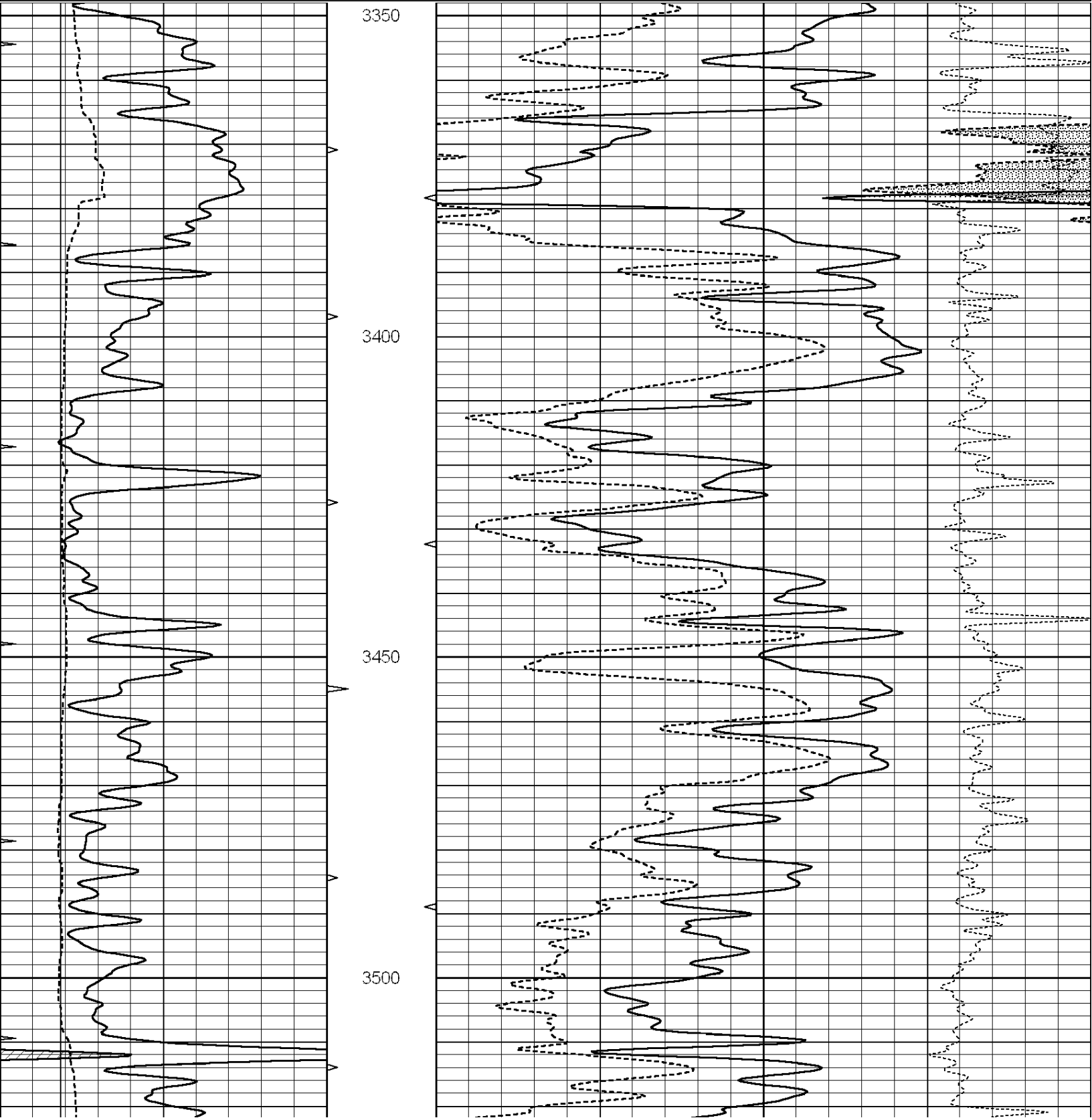


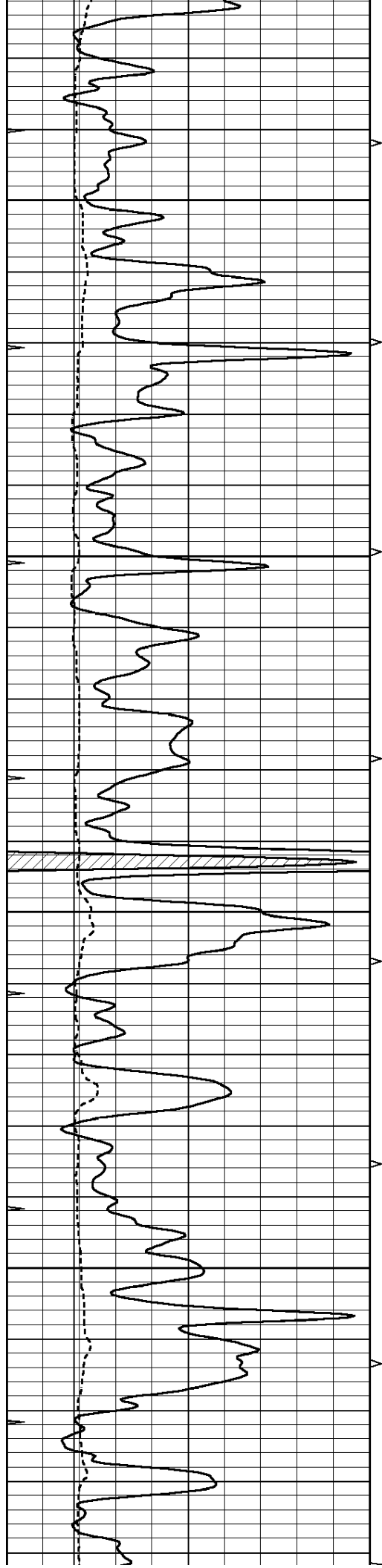
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MAIN SECTION

Database File: 008780ddn.db
Dataset Pathname: pass4.A
Presentation Format: den_neu
Dataset Creation: Fri Jun 01 10:26:08 2012
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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



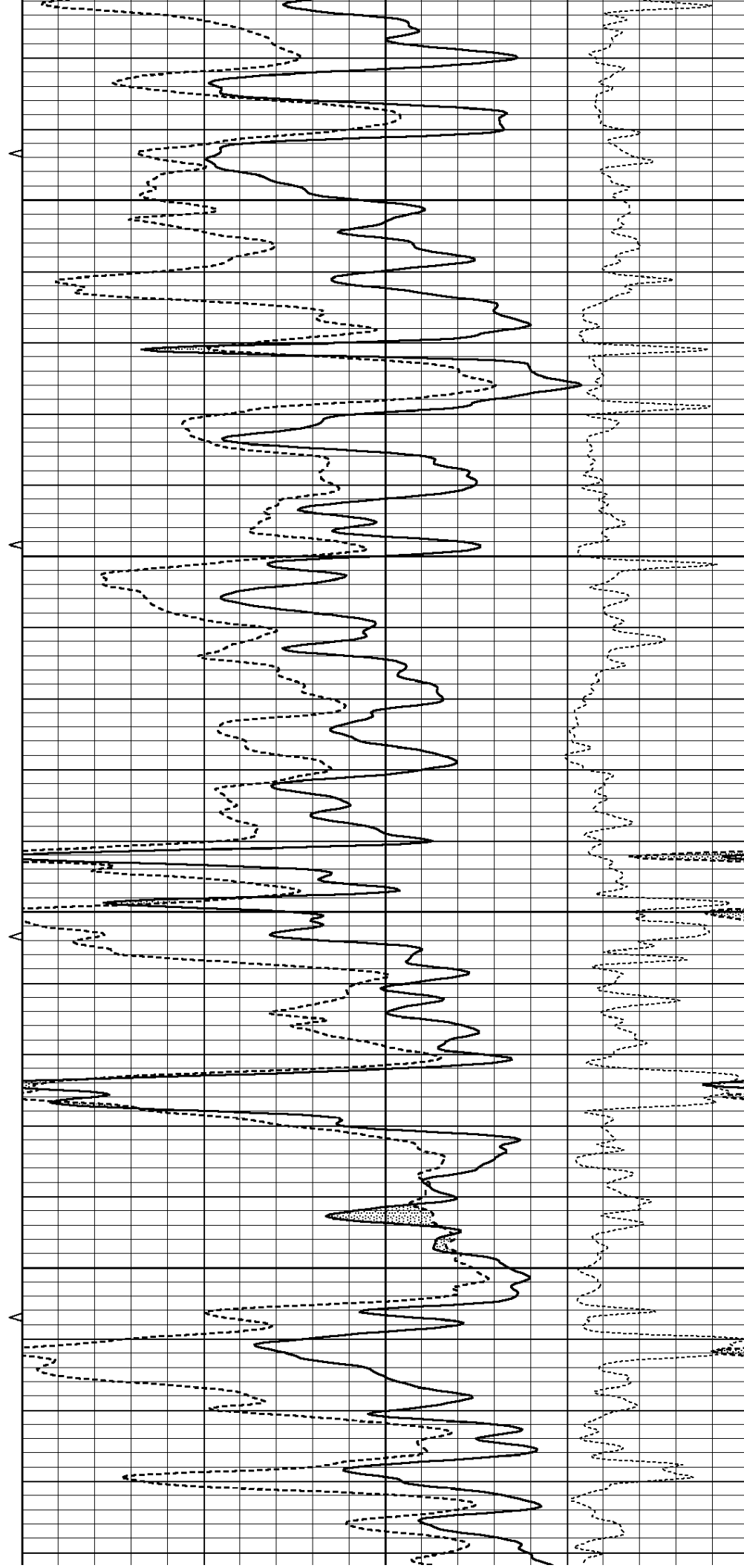


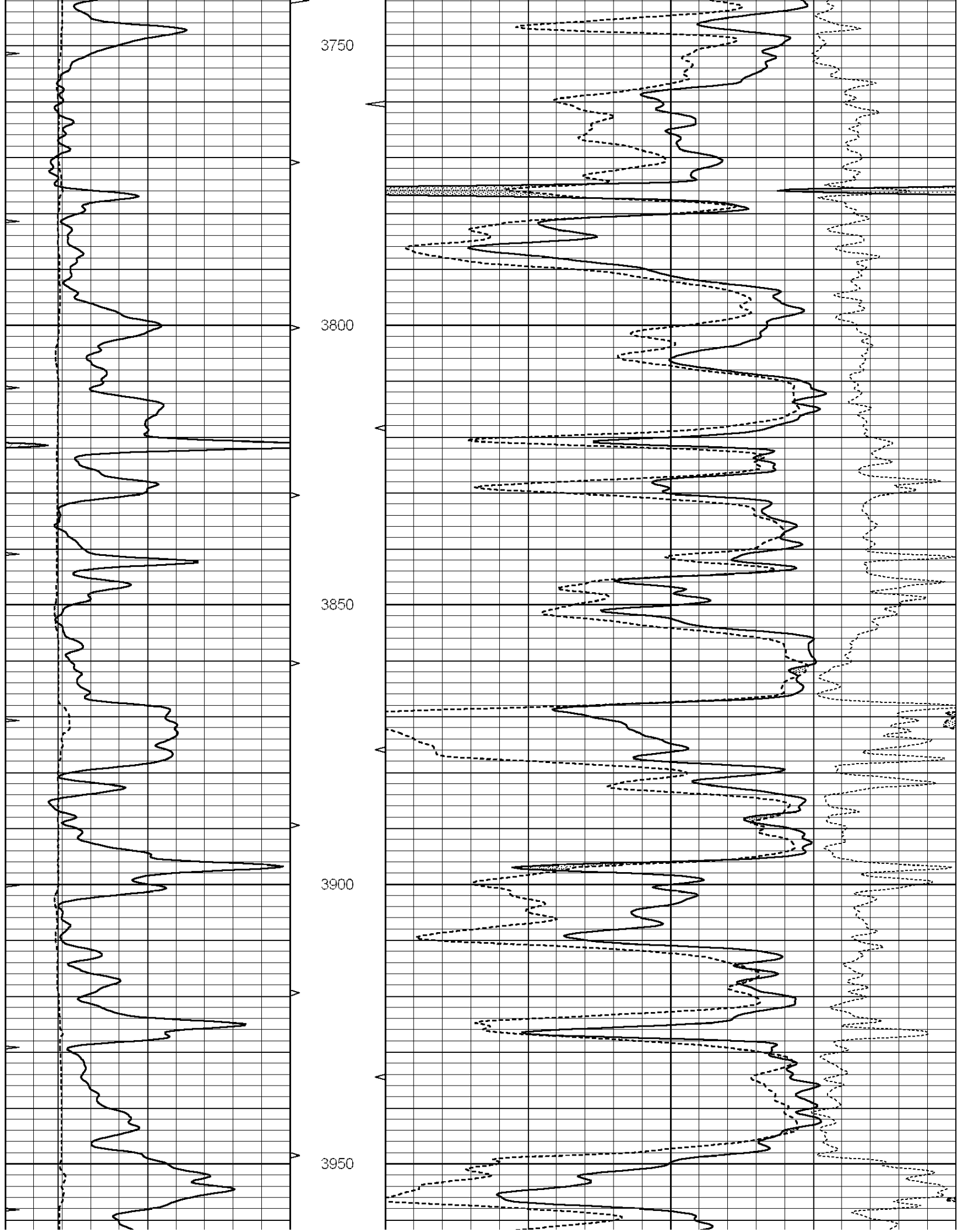
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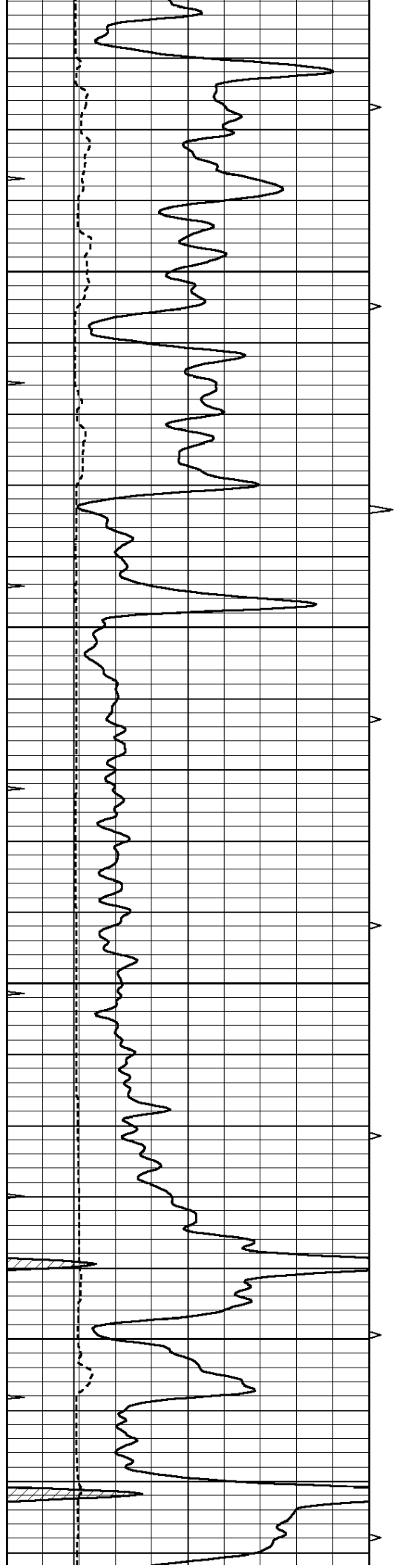
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3650

3700





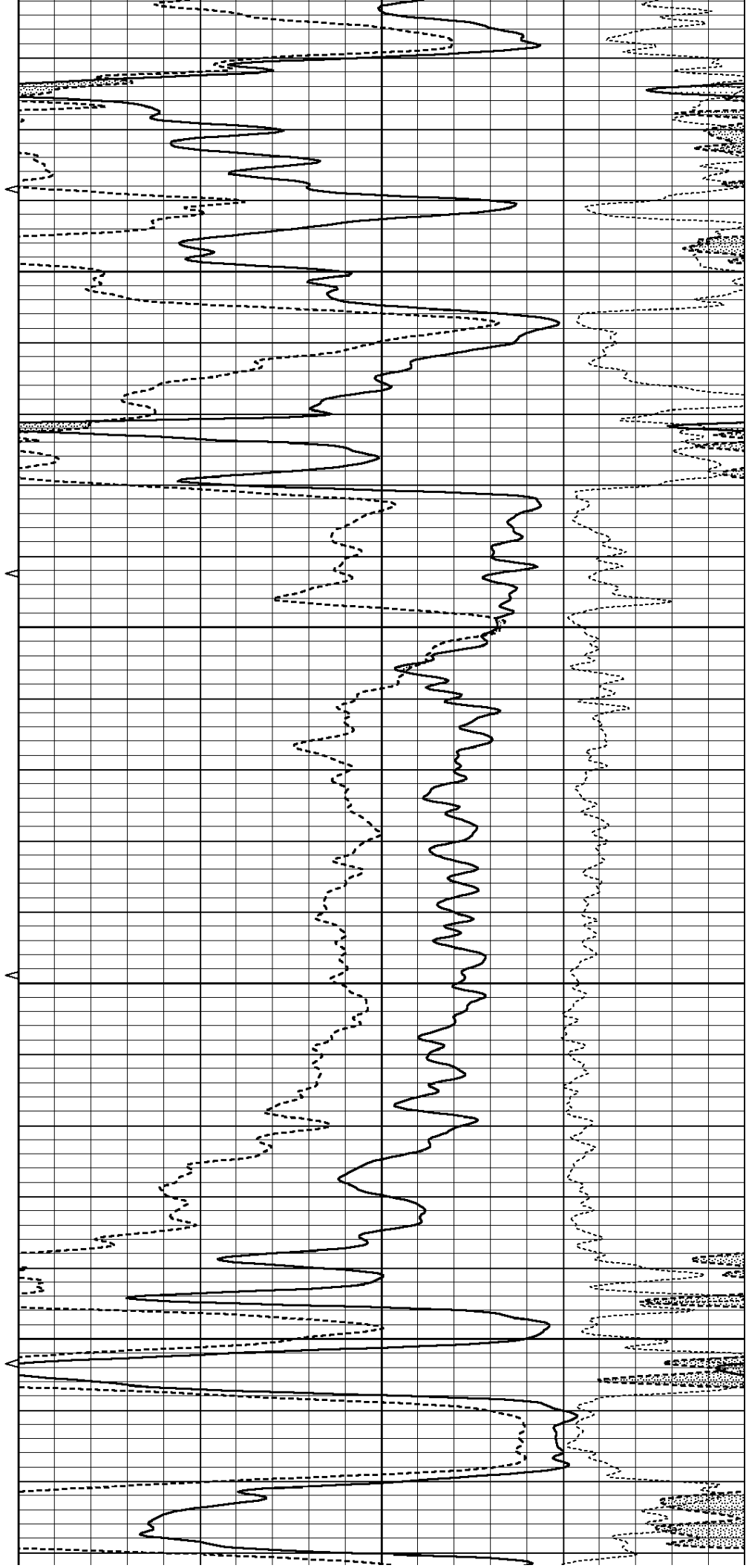


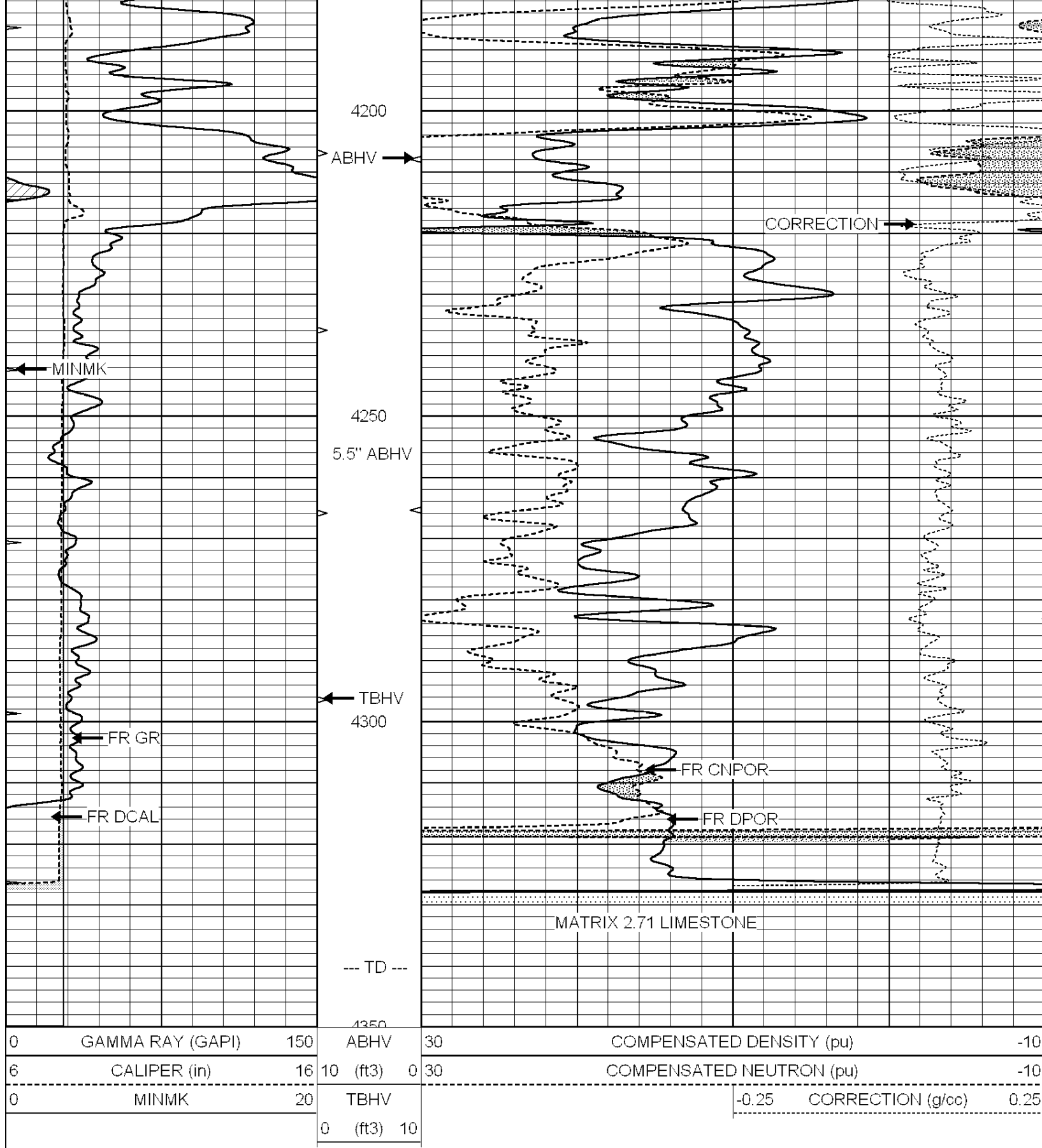
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4050

4100

4150

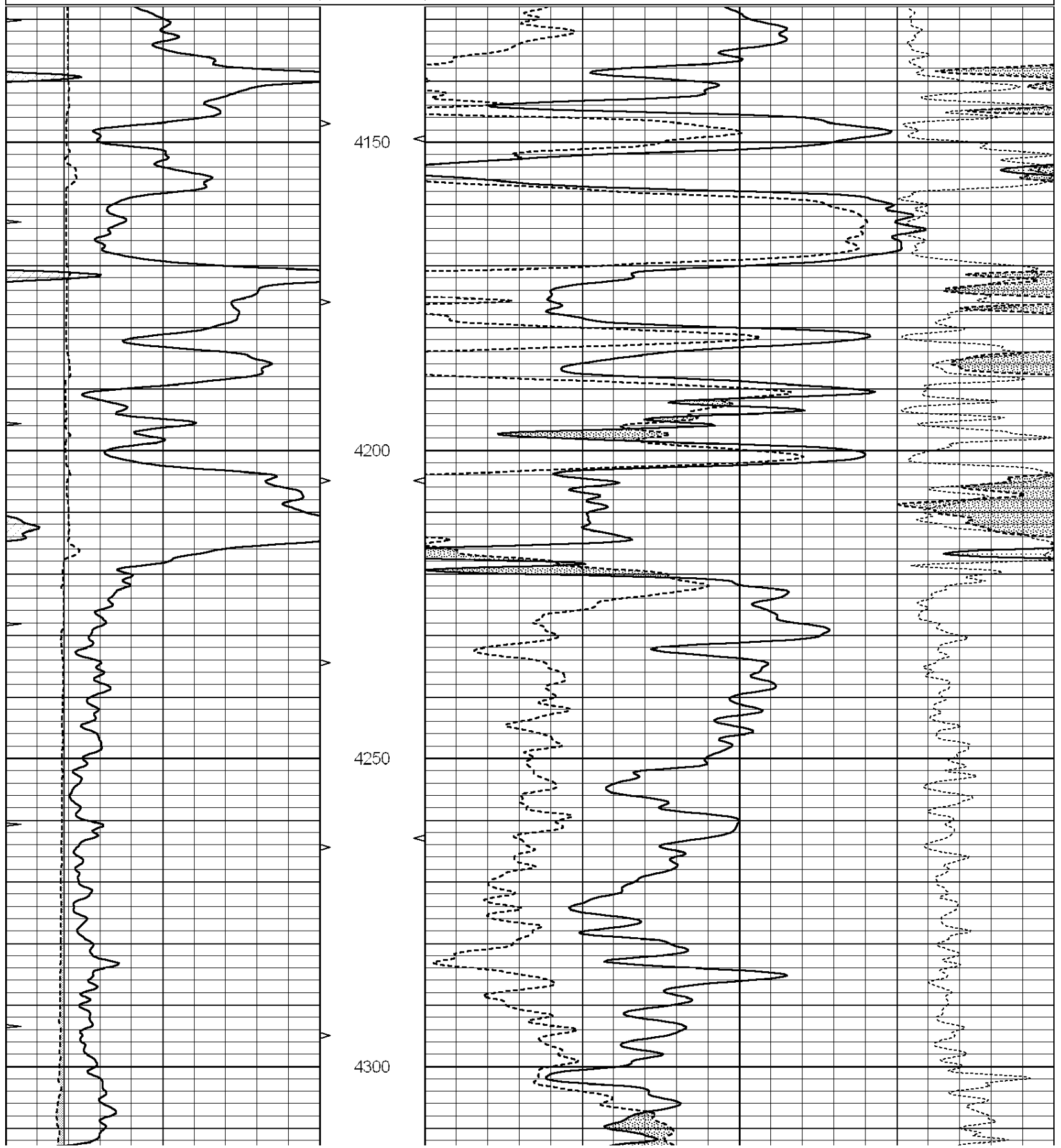


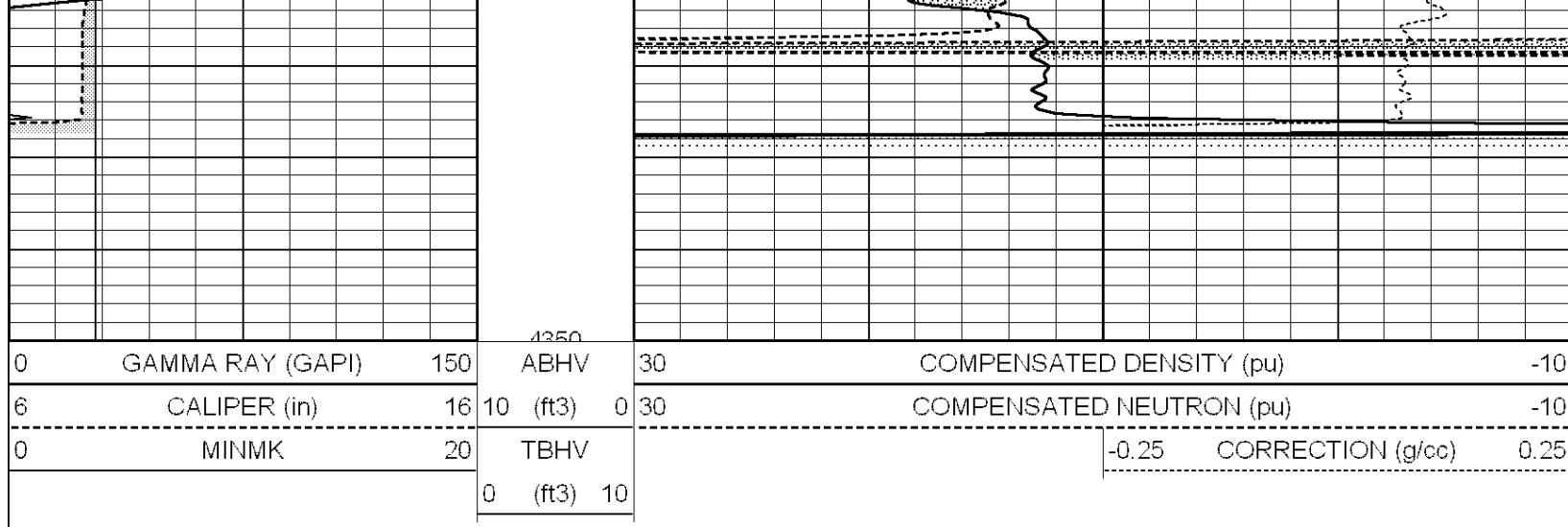


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REPEAT SECTION

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





Calibration Report

Database File: 008780ddn.db
 Dataset Pathname: pass4.A
 Dataset Creation: Fri Jun 01 10:26:08 2012

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Fri Jun 01 07:32:46 2012
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Fri Jun 01 07:32:39 2012

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	550.000	-13.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	540.000	-16.000
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		3970.000	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		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report

Master Calibration

	<u>Density</u>		<u>Far Detector</u>	<u>Near Detector</u>	
Magnesium	1.710	g/cc	1203.63	642.89	cps
Aluminum	2.590	g/cc	267.51	439.63	cps
Spine Angle = 75.82			Density/Spine Ratio = 0.567		
	<u>Size</u>		<u>Reading</u>		
Small Ring	7.00	in	3.10	V	
Large Ring	11.40	in	5.99	V	

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:	Fri Jun 01 09:12:40 2012
Calibrator Value:	1.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	1.0 cps
Sensitivity:	0.7500 GAPI/cps