



**SUPERIOR
Hays,
Kansas**

COMPENSATED DENSITY / NEUTRON LOG

Company RITCHIE EXPLORATION, INC.
Well #1 YOUNGERS 18CD
Field CARSON POOL
County FORD
State KANSAS

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Well #1 YOUNGERS 18CD
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County FORD State KANSAS

Location: API # : 15-057-20772

595' FSL & 770' FEL

SEC 18 TWP 27S RGE 23W

Other Services
DIL

Permanent Datum GROUND LEVEL Elevation 2423
Log Measured From KELLY BUSHING 12' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2435
D.F.
G.L. 2423

Date	12-30-11		
Run Number	ONE		
Depth Driller	5100		
Depth Logger	5100		
Bottom Logged Interval	5076		
Top Log Interval	3400		
Casing Driller	368		
Casing Logger	368		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 54		
pH / Fluid Loss	10.5 / 9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.65 @ 77F		
Rmf @ Meas. Temp	0.49 @ 77F		
Rmc @ Meas. Temp	0.78 @ 77F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.400 @ 126F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	1:30 P.M.		
Maximum Recorded Temperature	126F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MIKE ENGELBRECHT		

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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: SPEARVILLE, S TO #400, NW TO #117, 1 1/2S TO LARIAT WAY, 2E, S INTO.

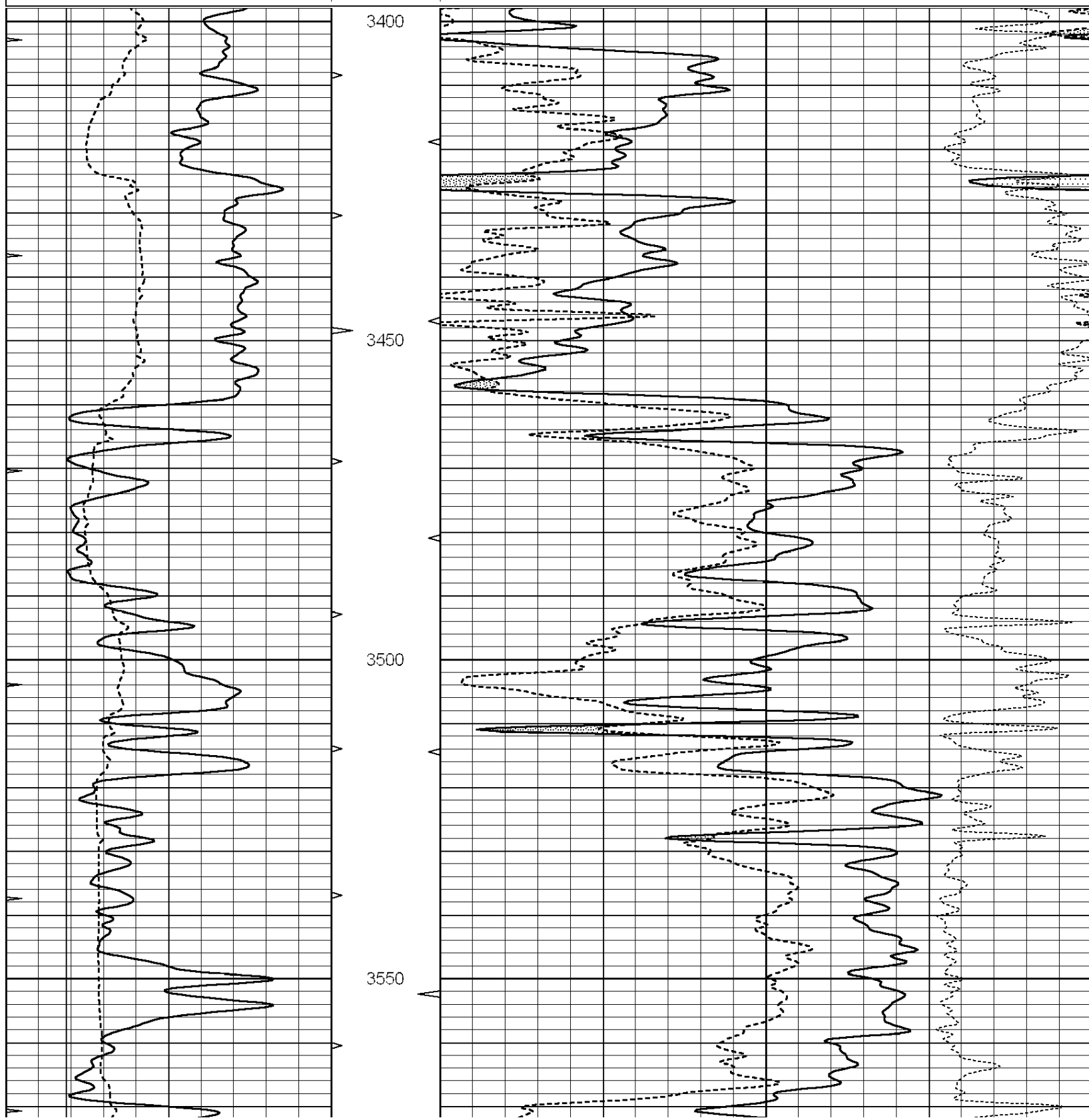


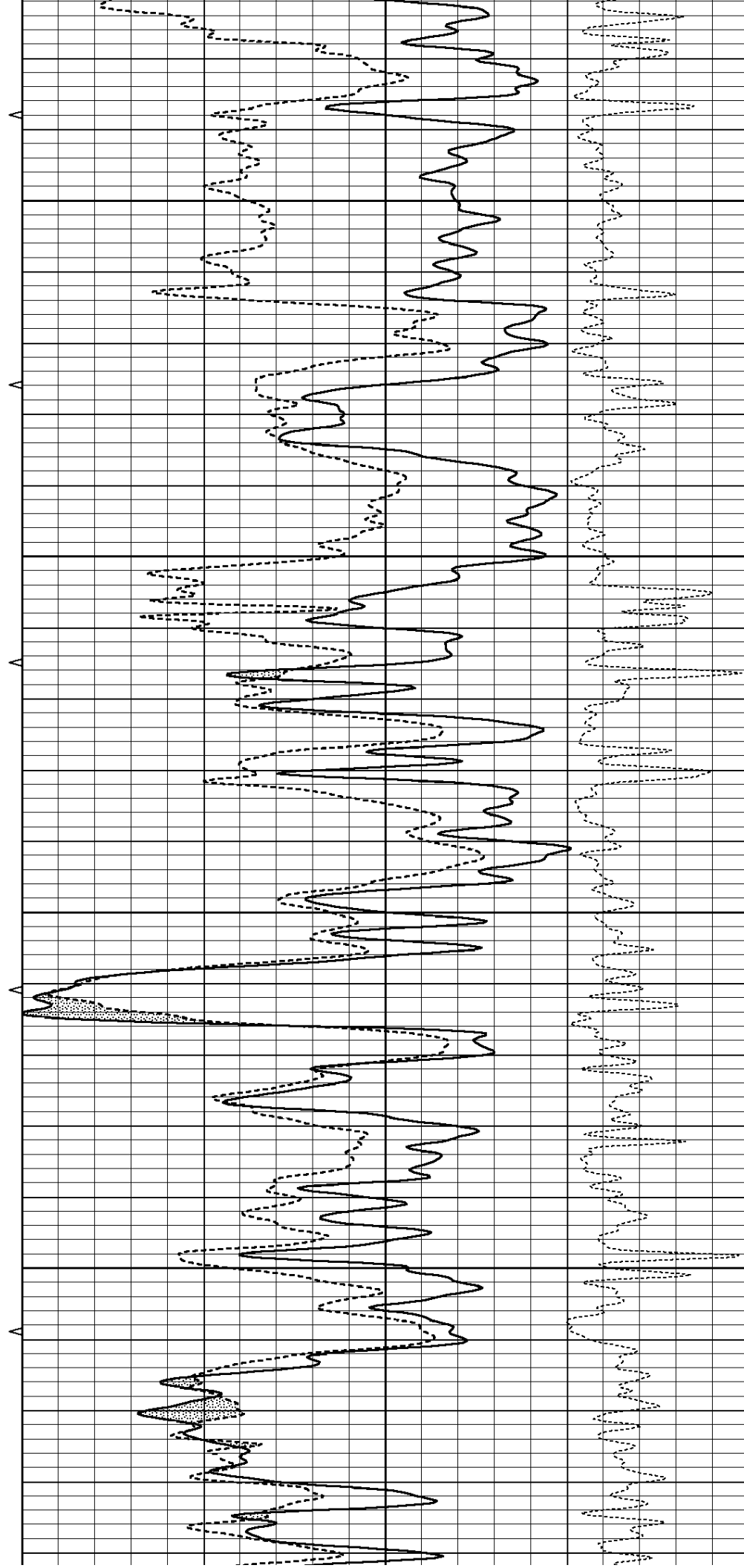
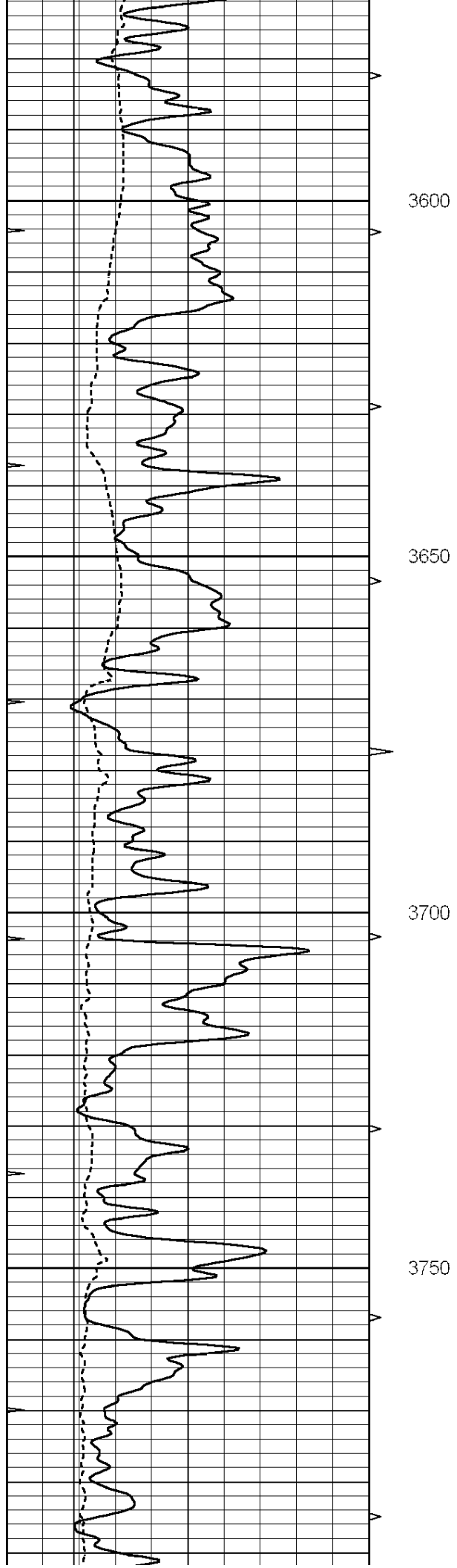
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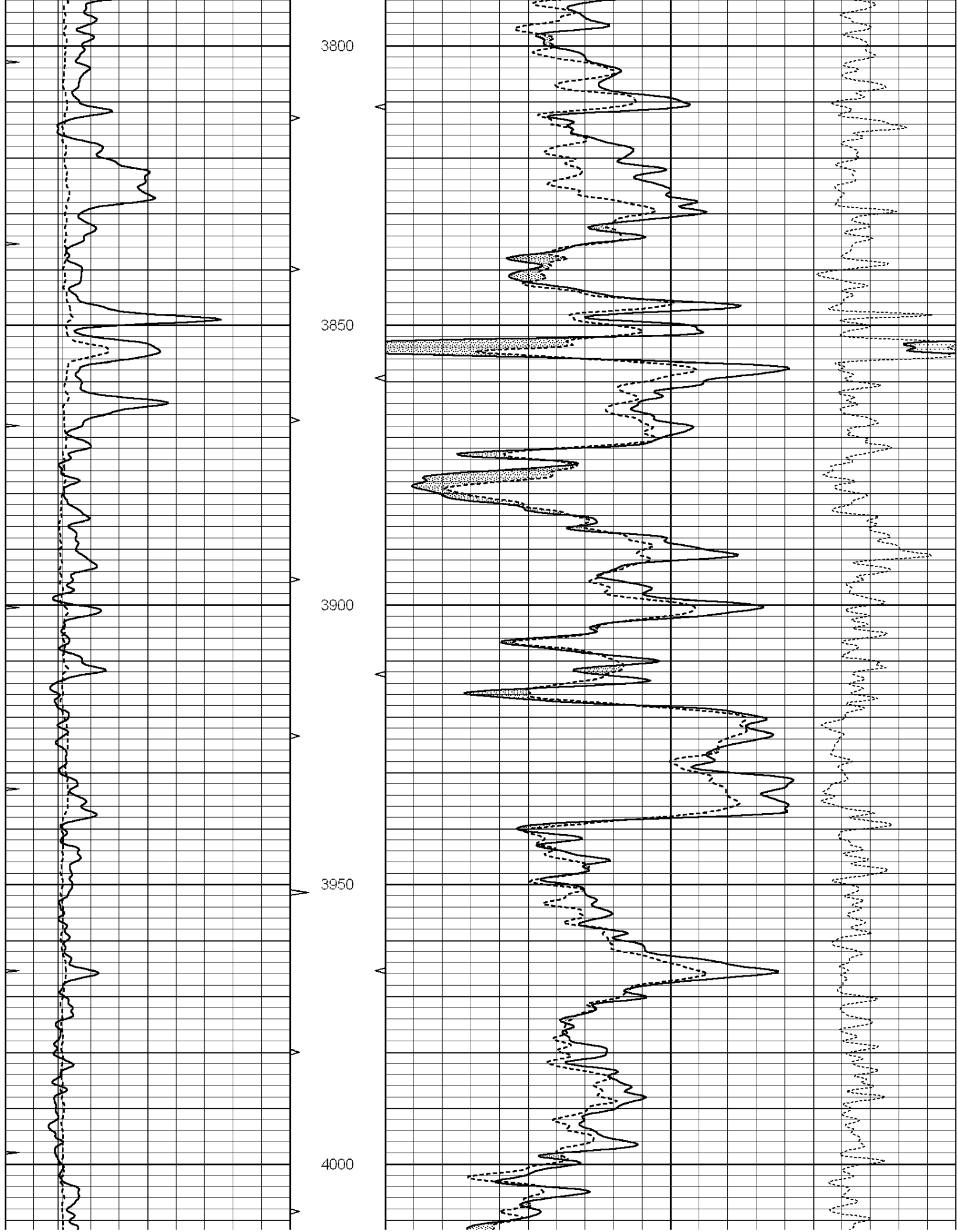
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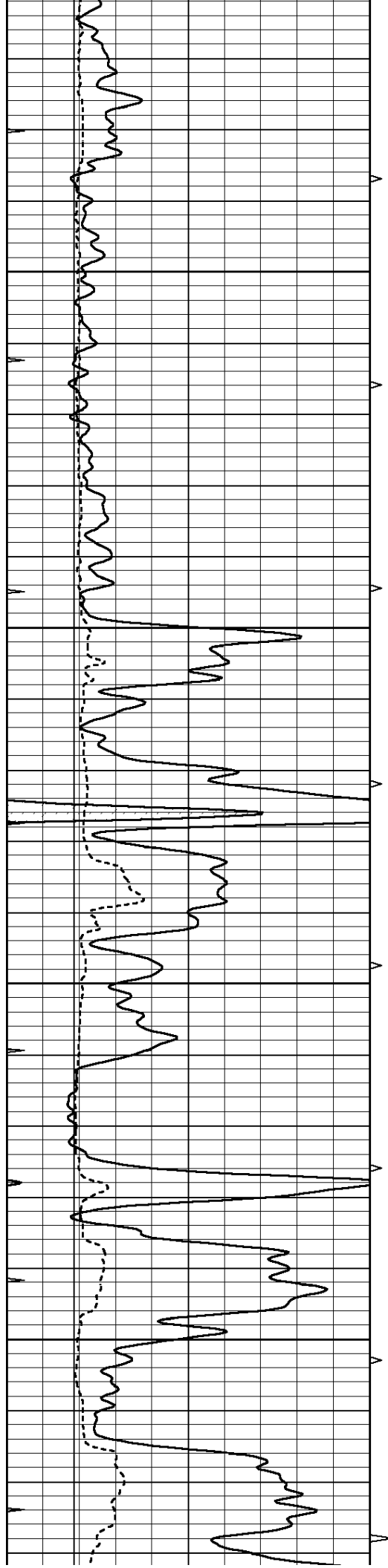
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Dataset Pathname: pass4.A
Presentation Format: den_neu
Dataset Creation: Fri Dec 30 04:02:20 2011
Charted by: Depth in Feet scaled 1:240

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







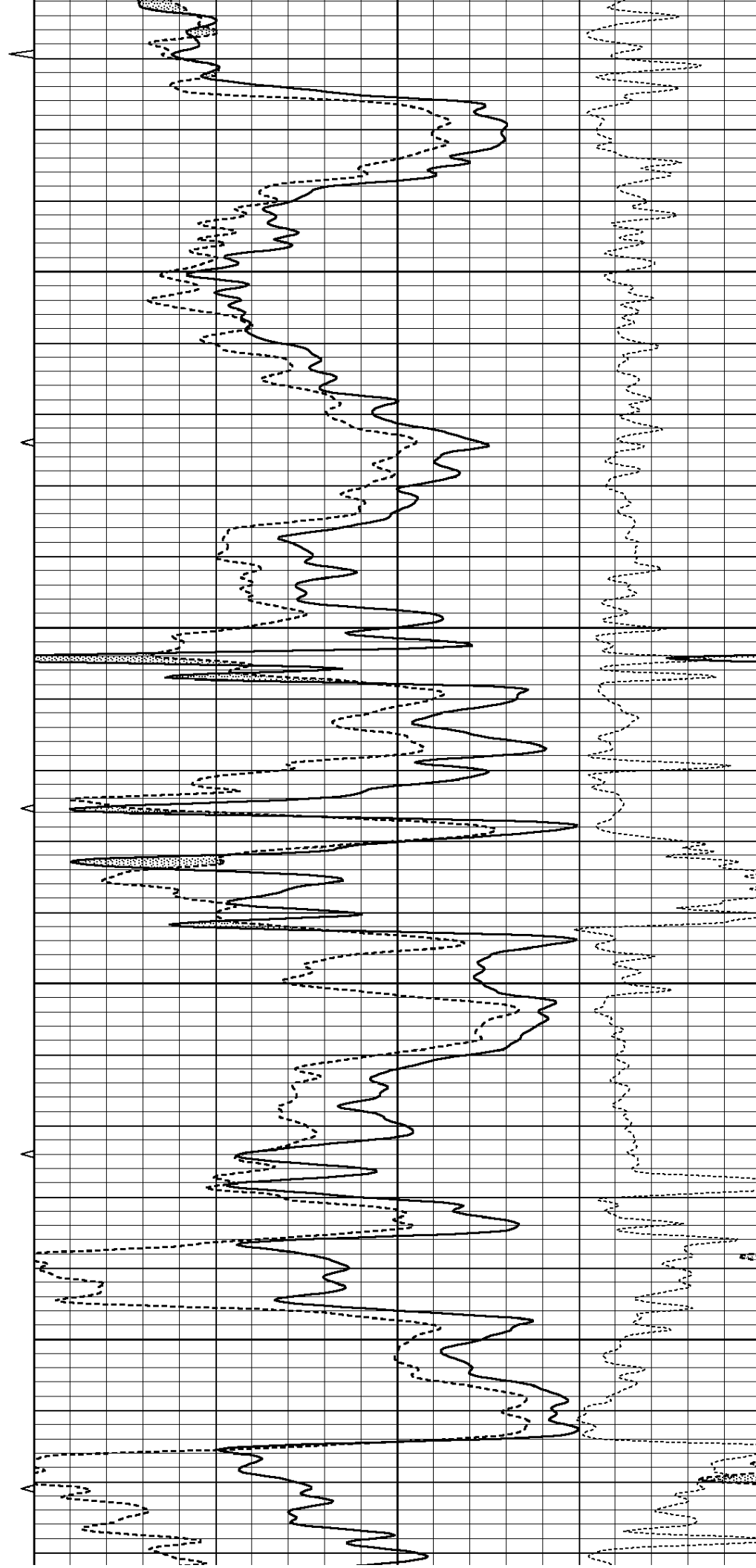


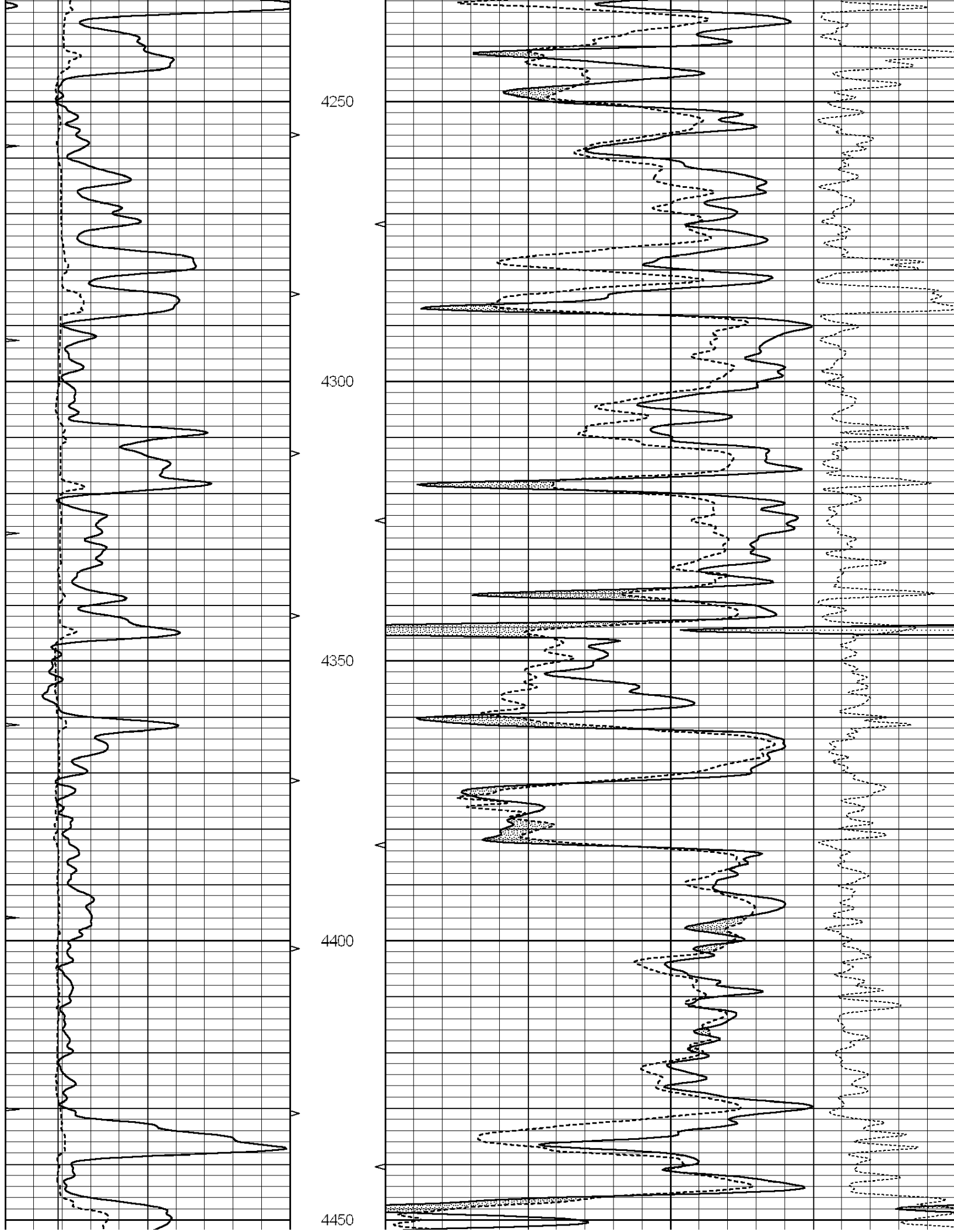
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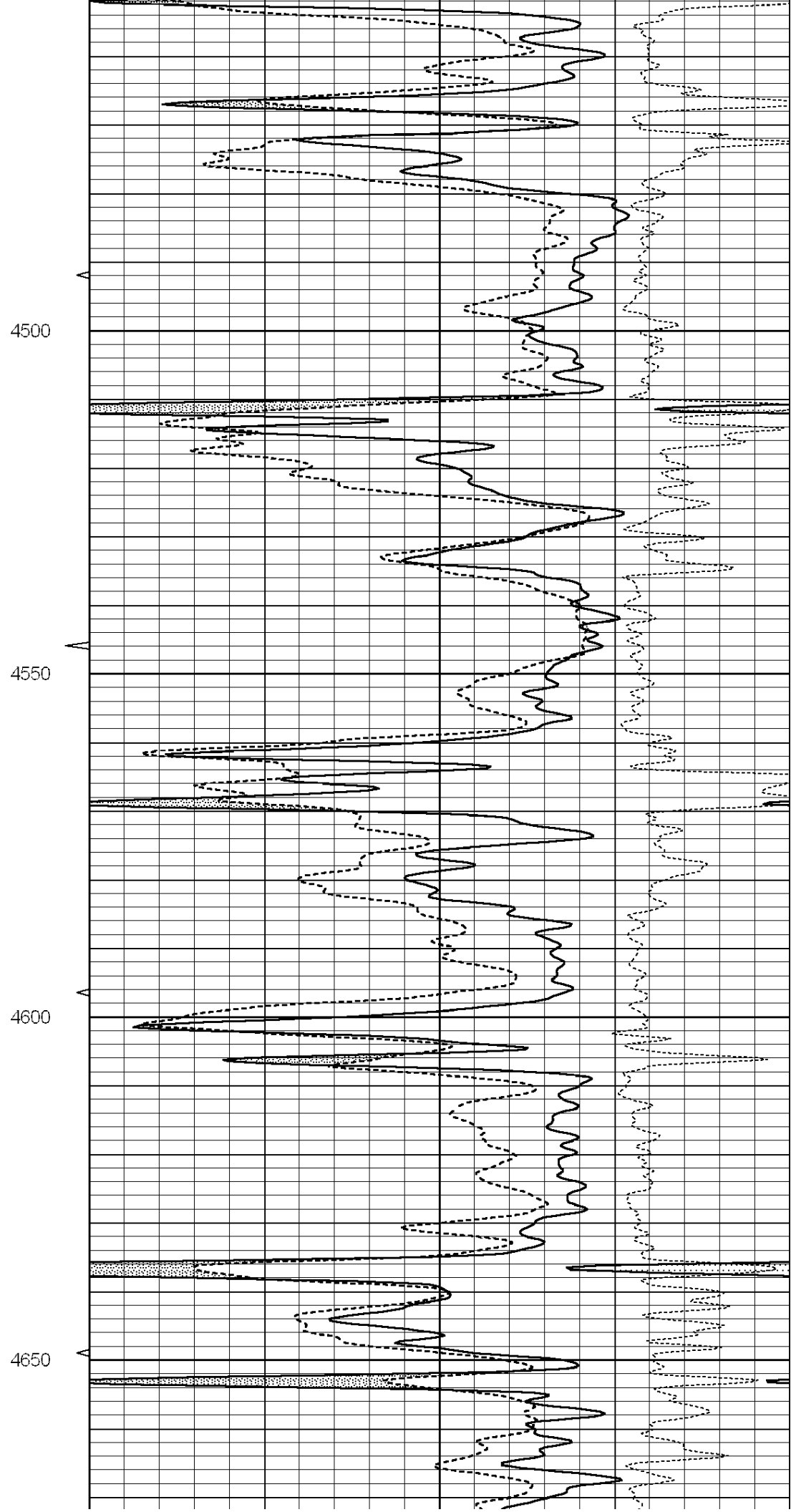
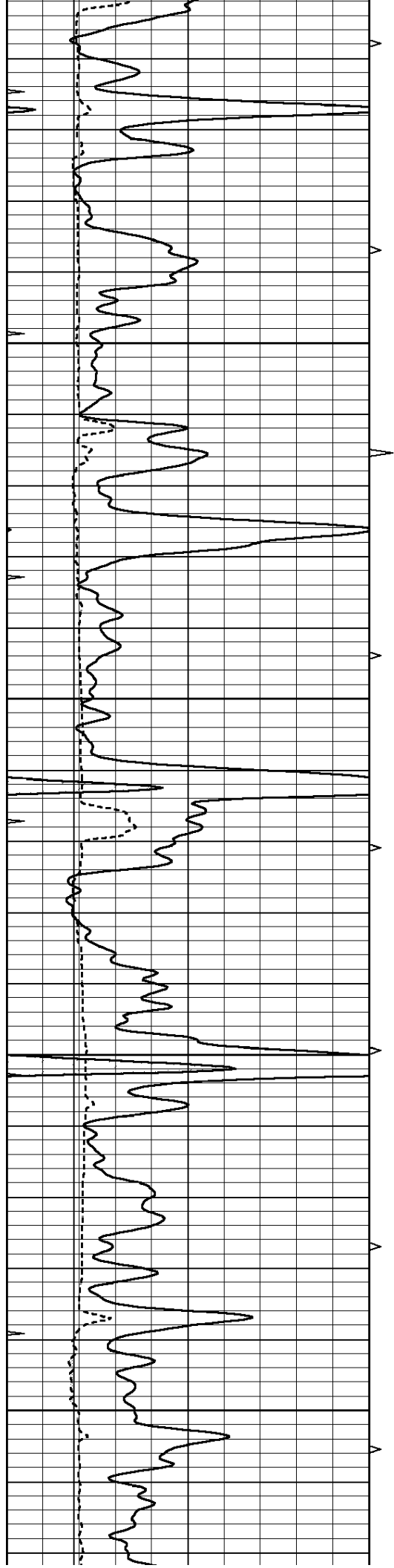
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4150

4200







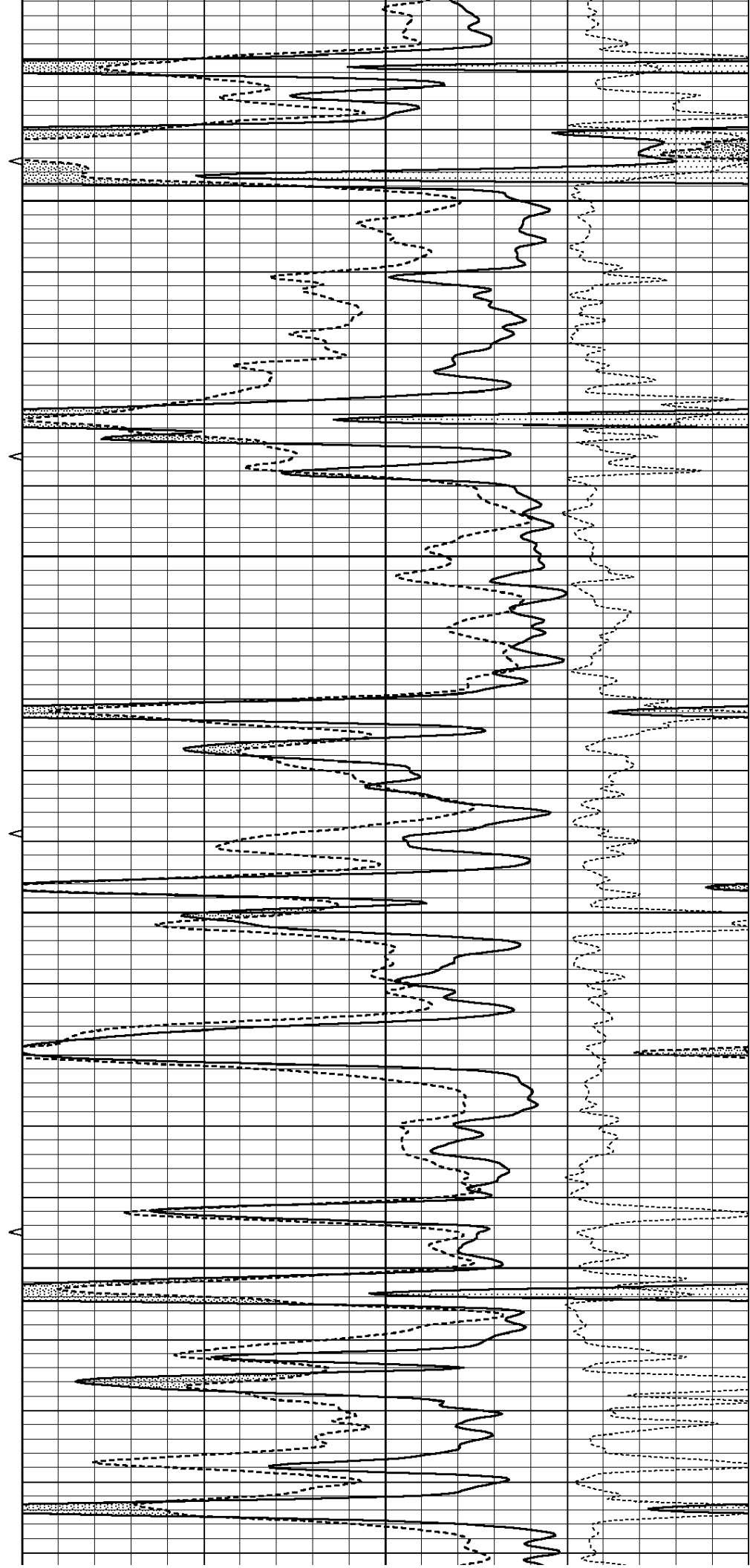


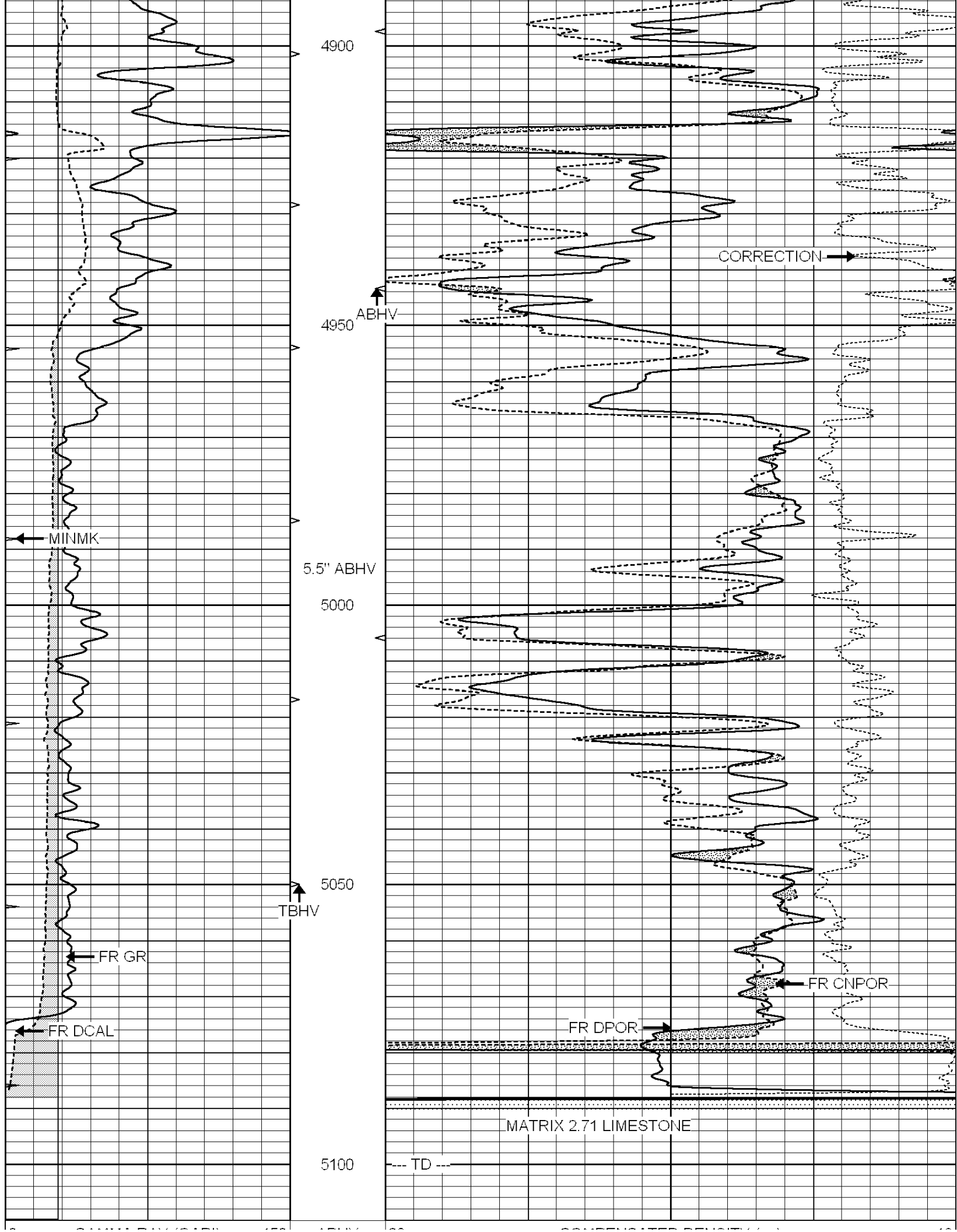
4700

4750

4800

4850





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		

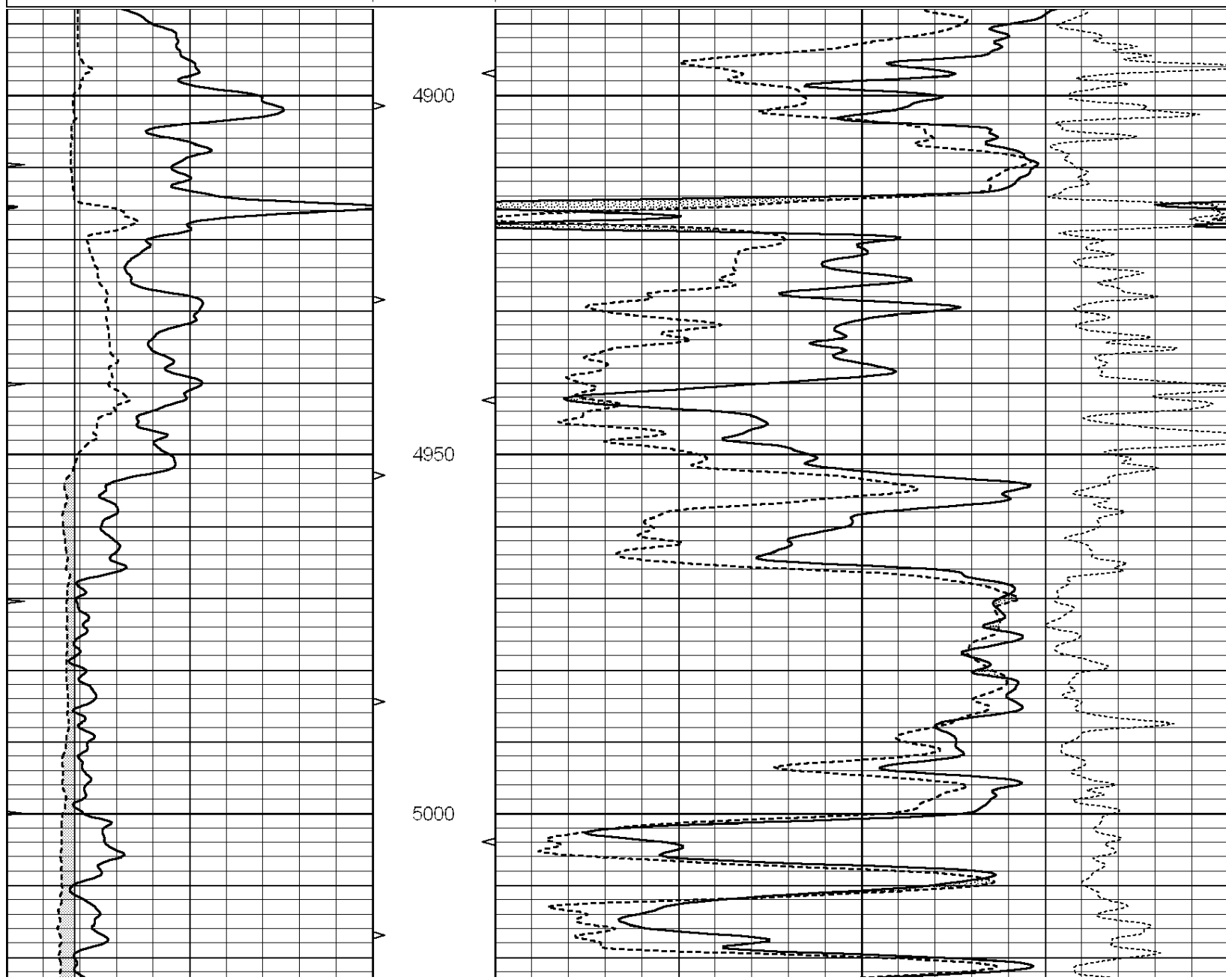


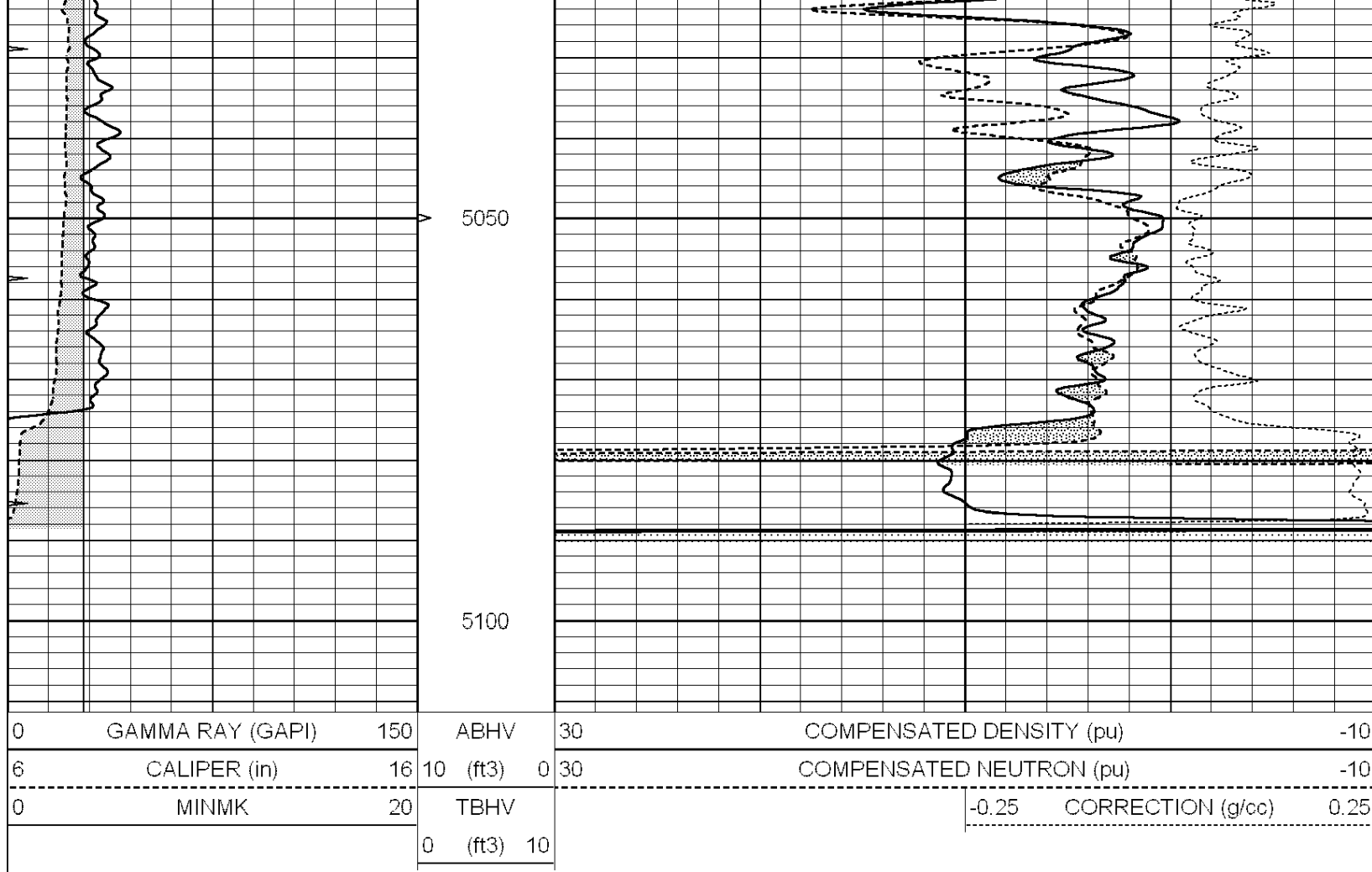
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REPEAT SECTION

Database File: 001222ddn.db
Dataset Pathname: pass3.1A
Presentation Format: den_neu
Dataset Creation: Fri Dec 30 03:59:56 2011 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 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





Calibration Report

Database File: 001222ddn.db
 Dataset Pathname: pass4.A
 Dataset Creation: Fri Dec 30 04:02:20 2011

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Fri Dec 30 00:16:59 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	-18.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	550.000	-12.000
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

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Fri Dec 30 00:16:36 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps

Aluminum	2.590	g/cc	282.16	435.01	cps
Spine Angle = 76.03			Density/Spine Ratio = 0.576		
	Size		Reading		
Small Ring	8.80	in	3.47	V	
Large Ring	14.00	in	5.80	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 Dec 30 00:15:59 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps