



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company	CAERUS KANSAS, LLC.	Company	CAERUS KANSAS, LLC.
Well	HOFFMAN RANCH #23-23	Well	HOFFMAN RANCH #23-23
Field	HOISINGTON EAST	Field	HOISINGTON EAST
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25639 1795' FSL & 1814' FWL	Other Services DIL SONIC/MEL	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 9' A.G.L. KELLY BUSHING	Elevation K.B. 1865 D.F. G.L. 1856	
Date	12-13-11		
Run Number	ONE		
Depth Driller	3450		
Depth Logger	3449		
Bottom Logged Interval	3425		
Top Log Interval	1500		
Casing Driller	820		
Casing Logger	820		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 45		
pH / Fluid Loss	9.5 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.65 @ 70F		
Rmf @ Meas. Temp	0.49 @ 70F		
Rmc @ Meas. Temp	0.78 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.420 @ 109F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2:30 P.M.		
Maximum Recorded Temperature	109F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	JEFF LAWLER	BRIAN KARLIN	

<<< Fold Here >>>

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: HOISINGTON DAIRY QUEEN, 2E, 2 1/2N, E INTO.

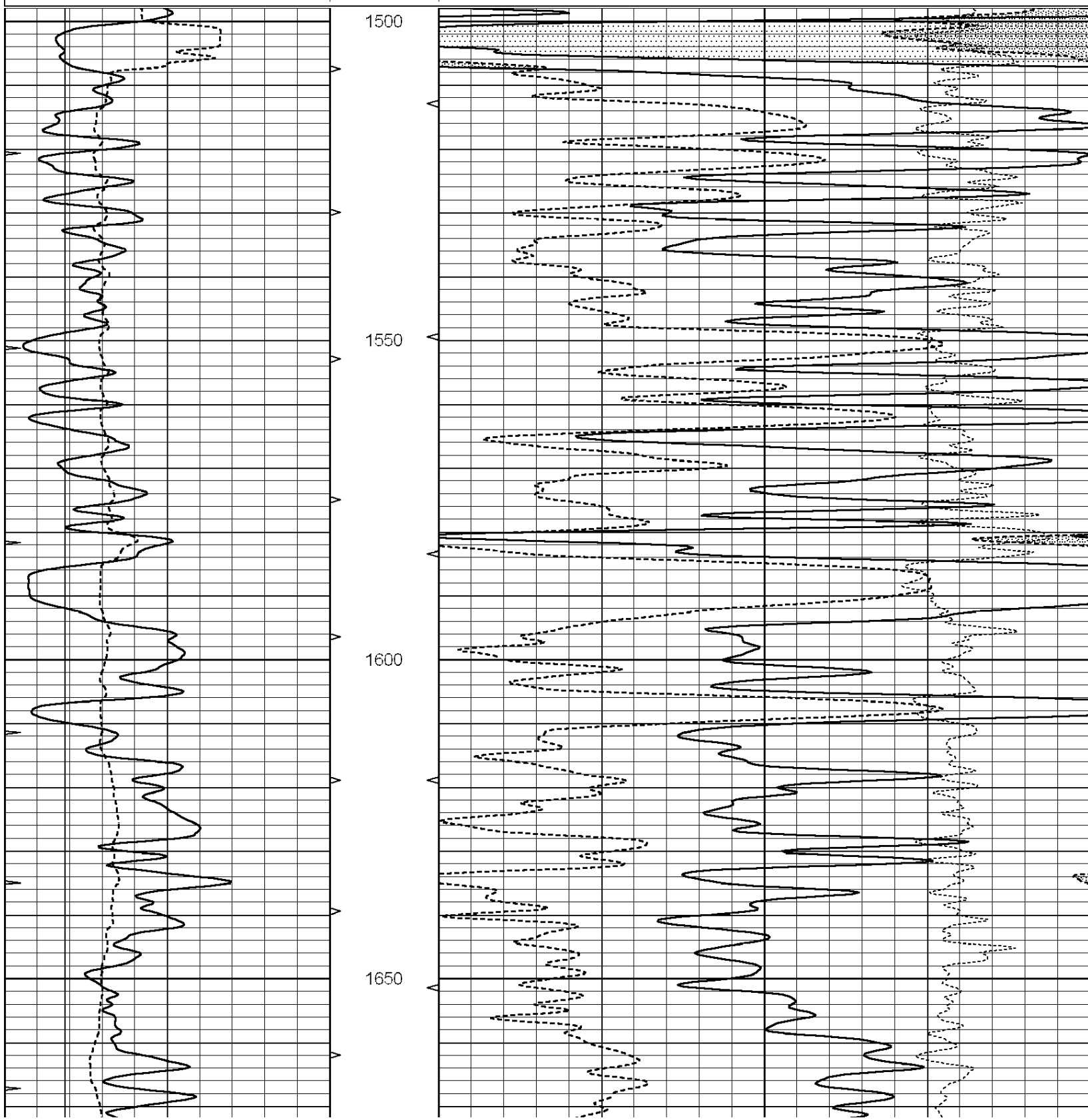


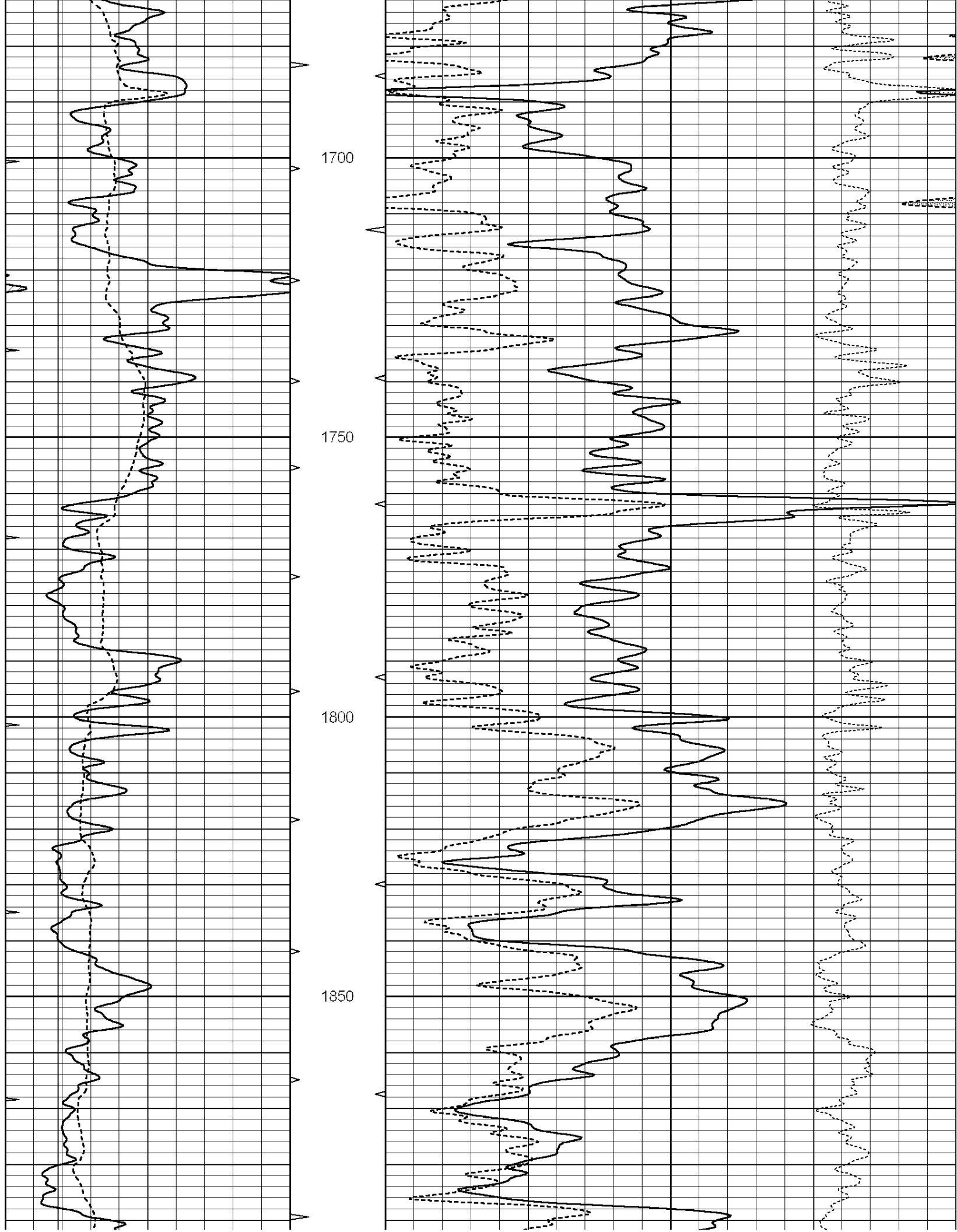
SUPERIOR
Hays,
Kansas

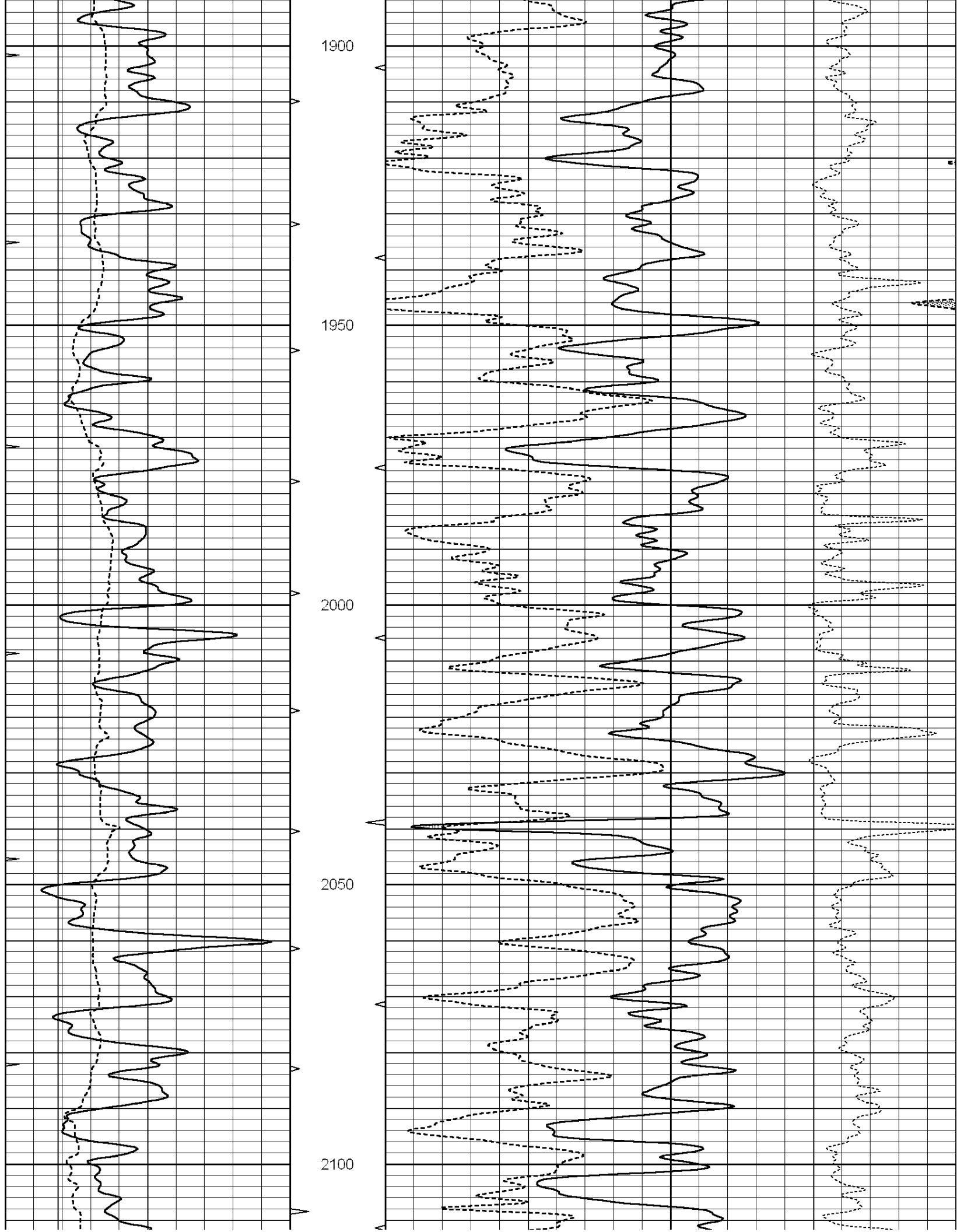
MAIN SECTION

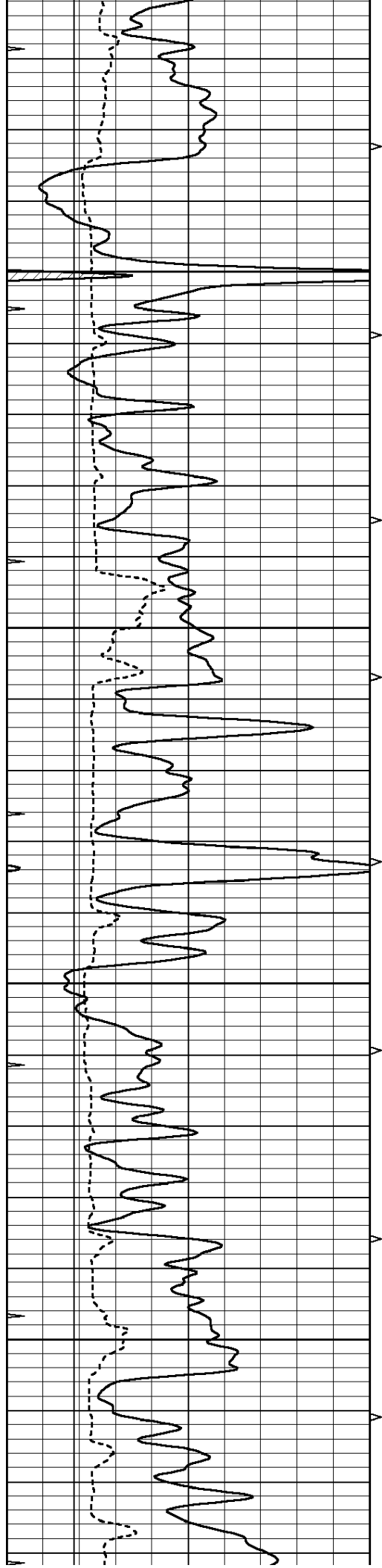
Database File: 001214ddn.db
Dataset Pathname: pass3.1
Presentation Format: den_neu
Dataset Creation: Tue Dec 13 16:26:17 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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		







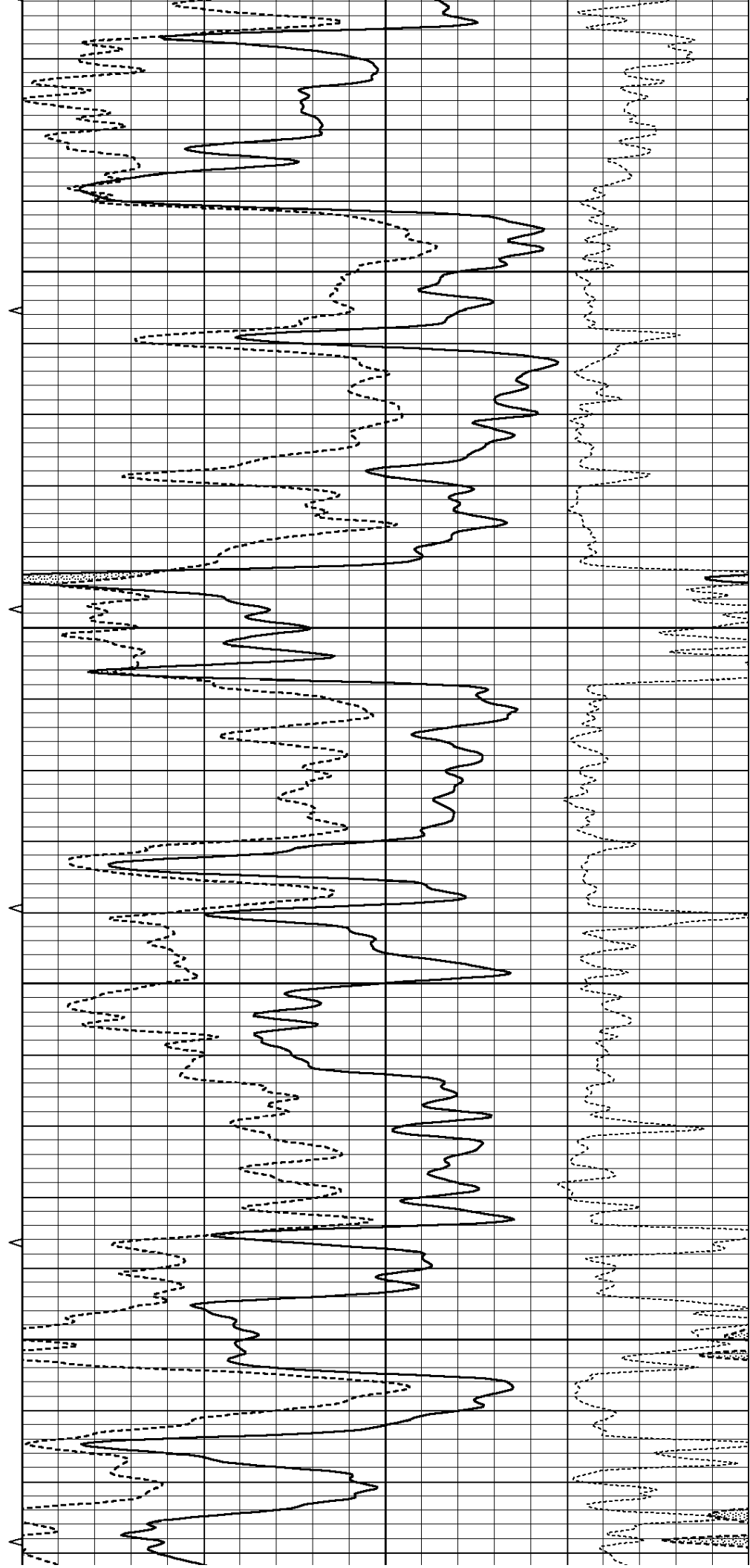


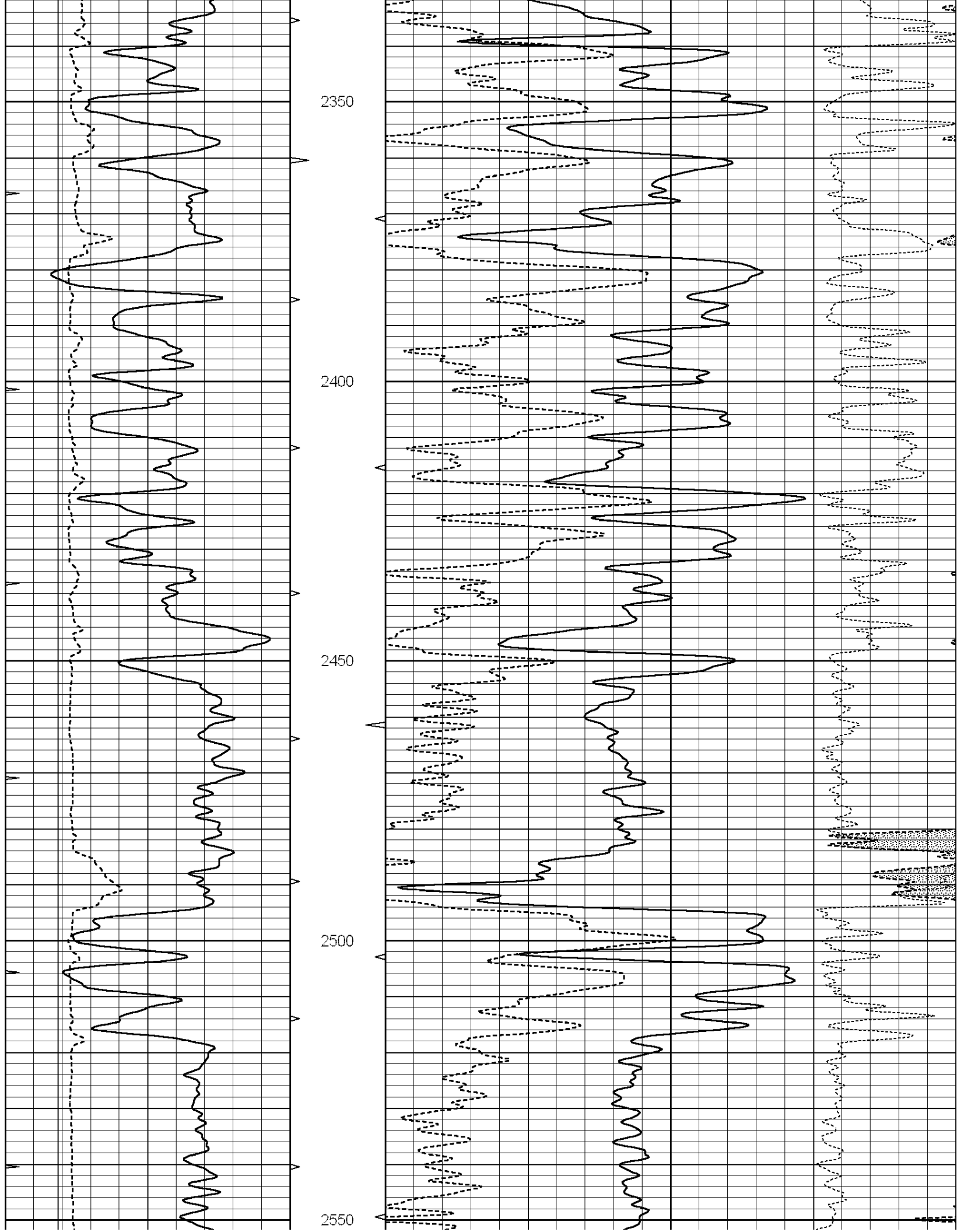
2150

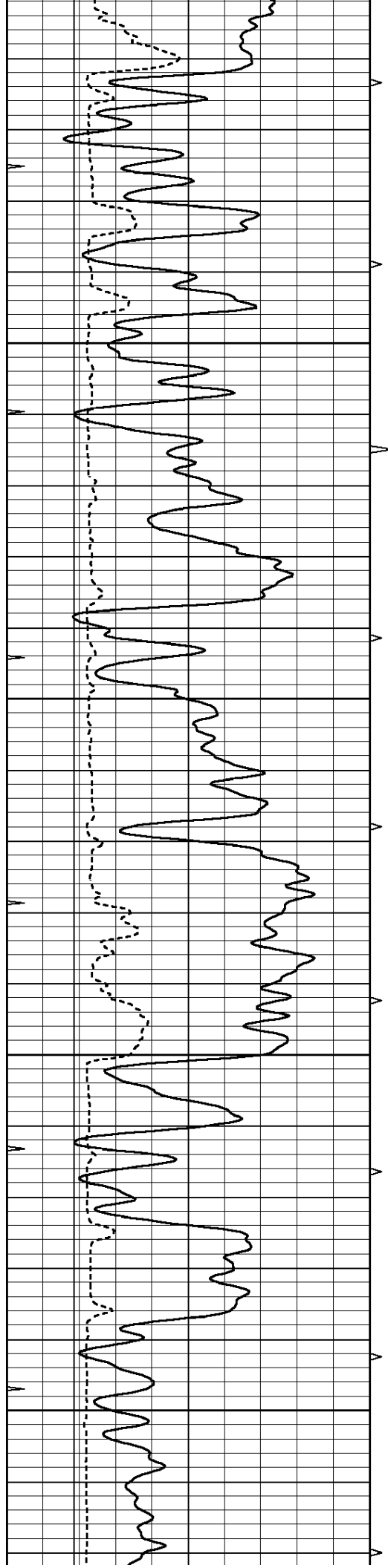
2200

2250

2300





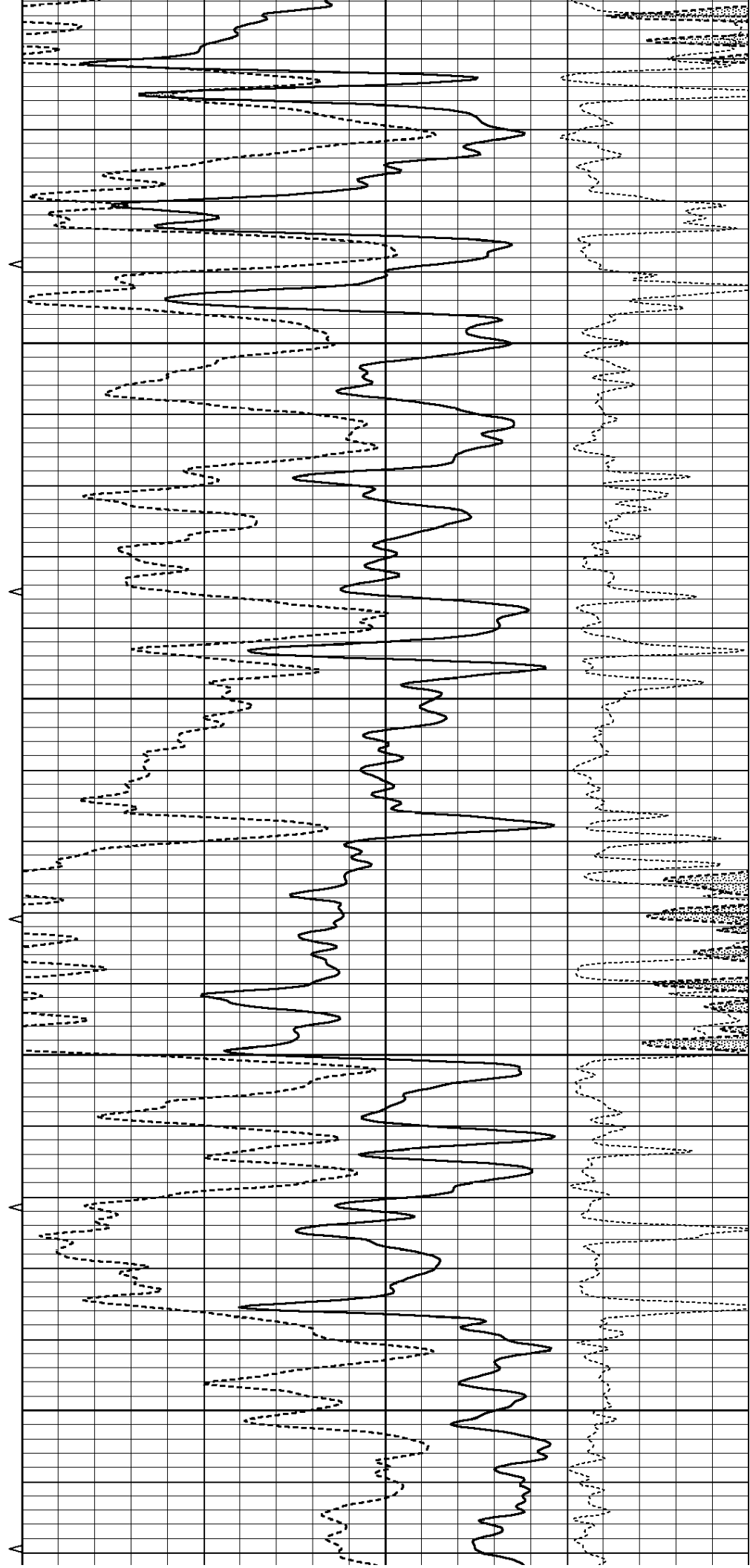


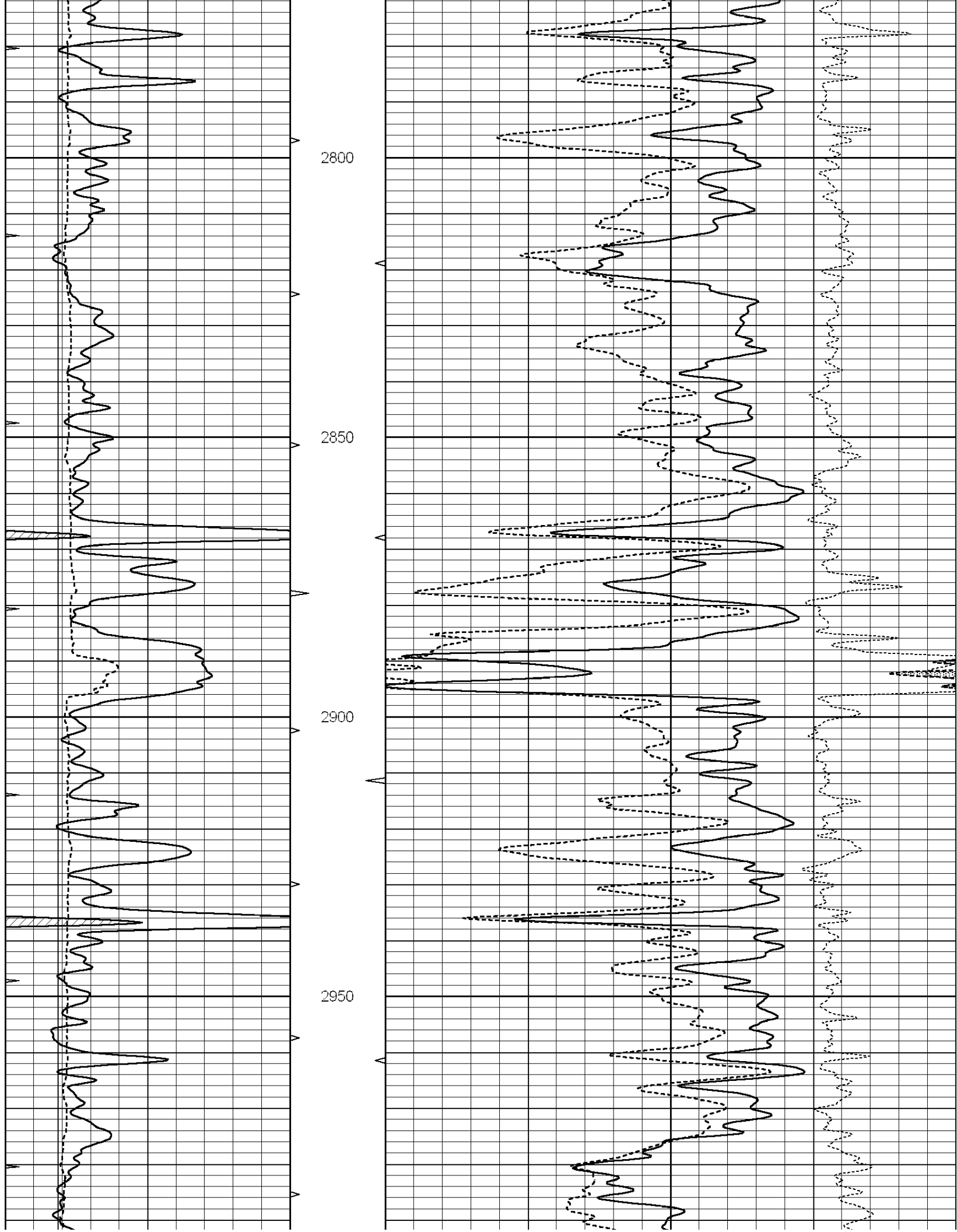
2600

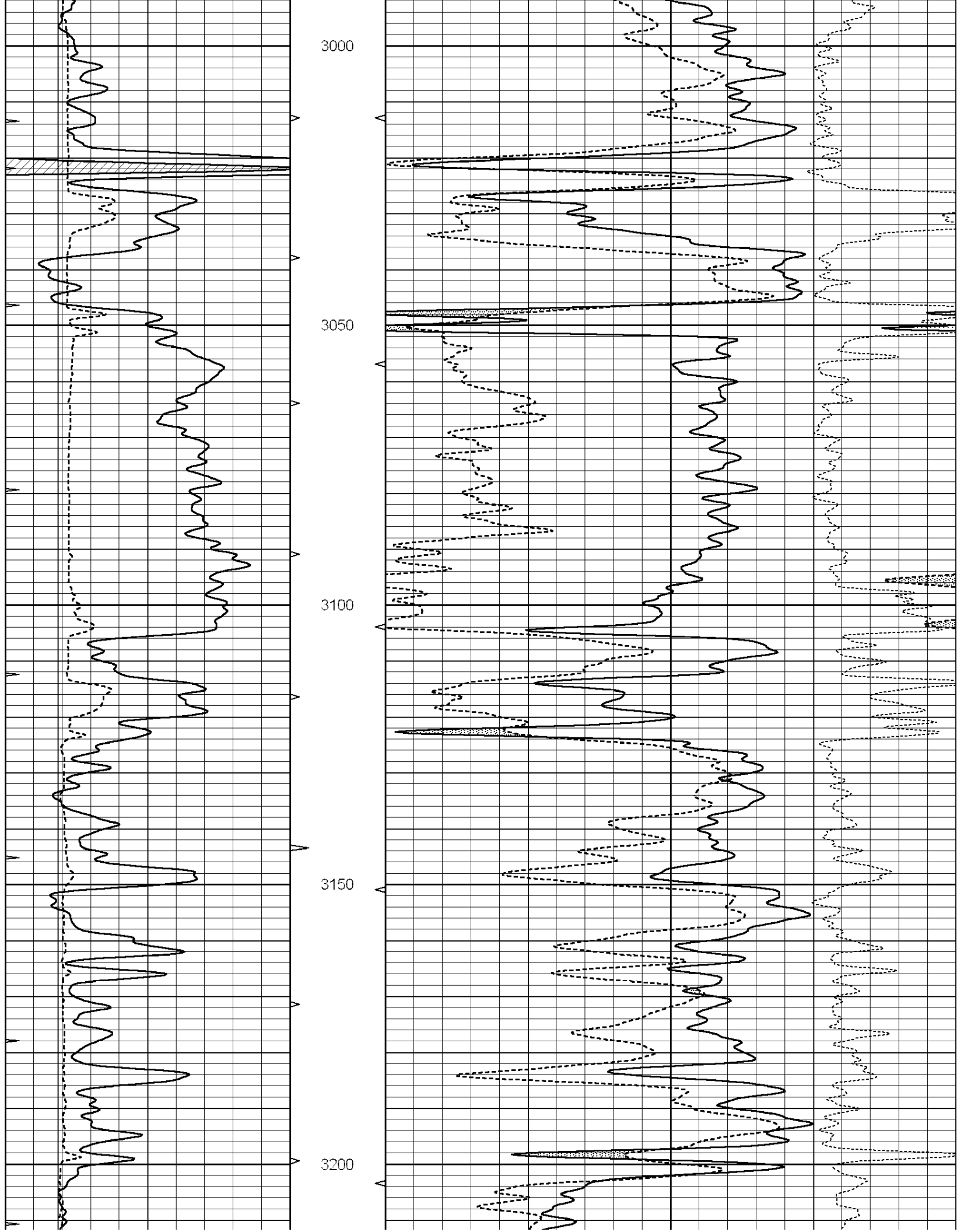
2650

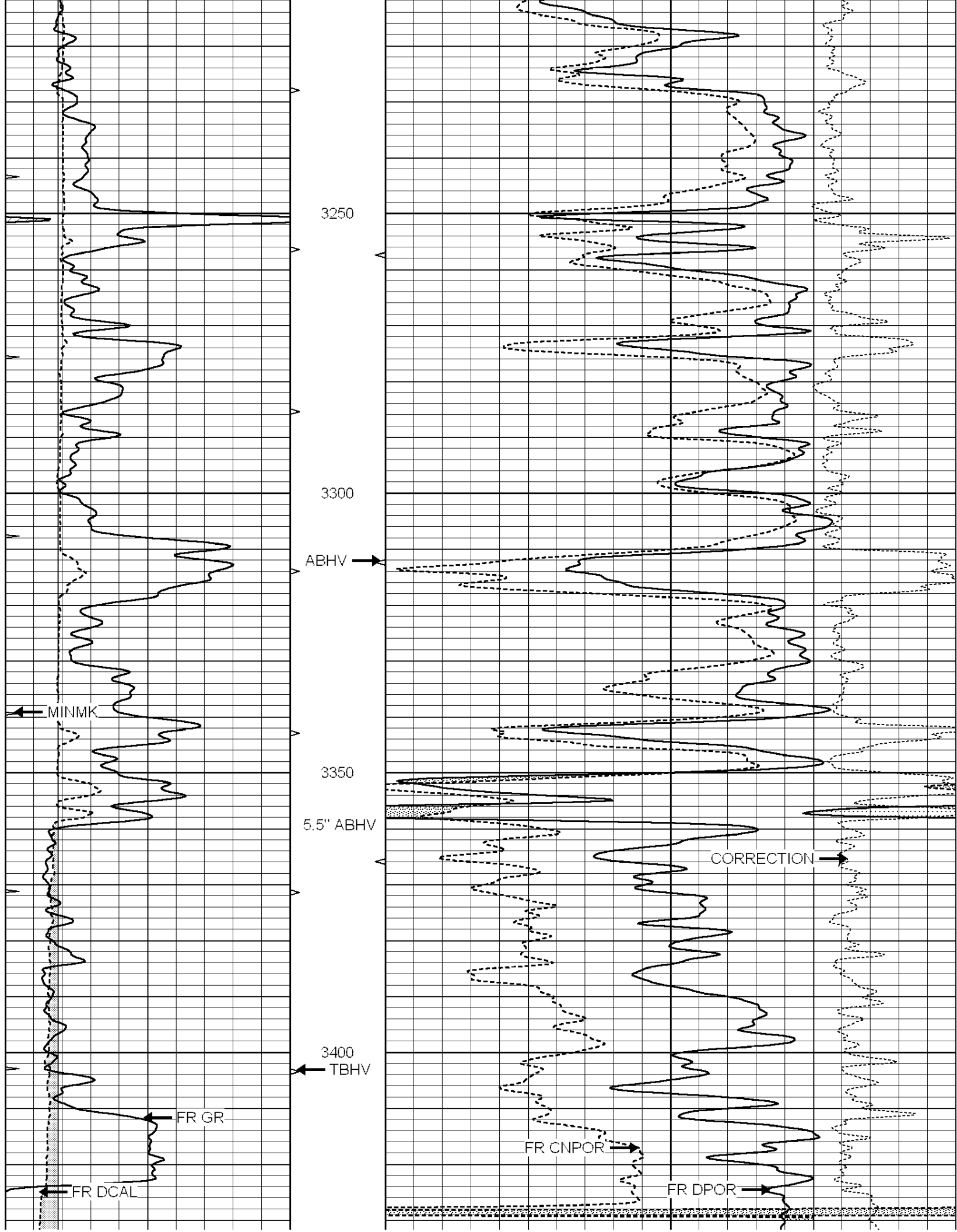
2700

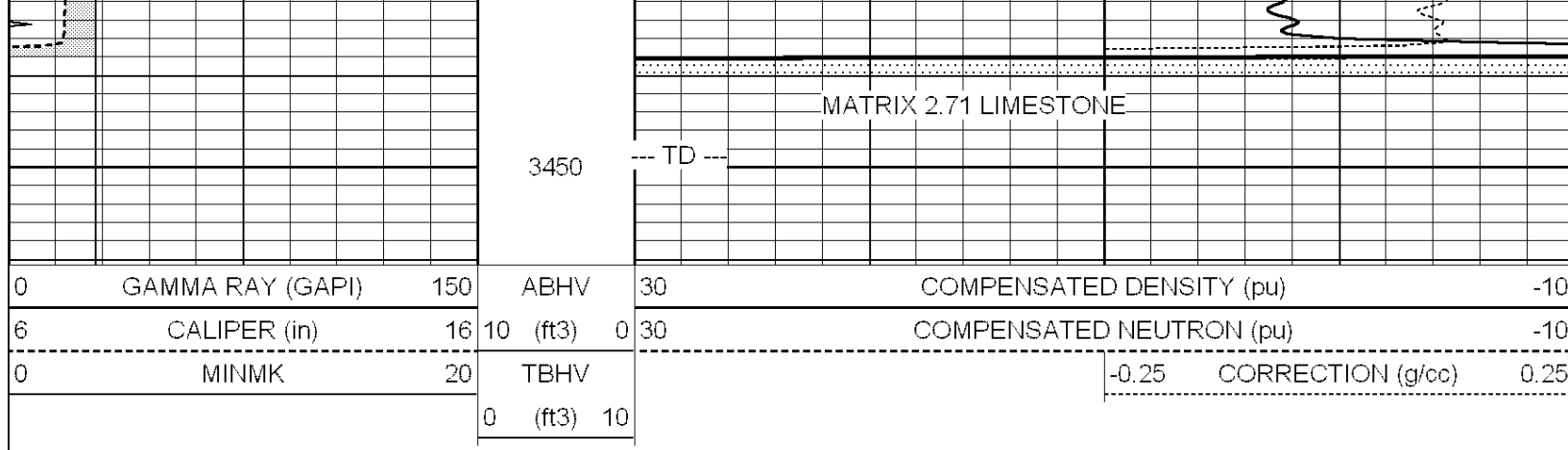
2750







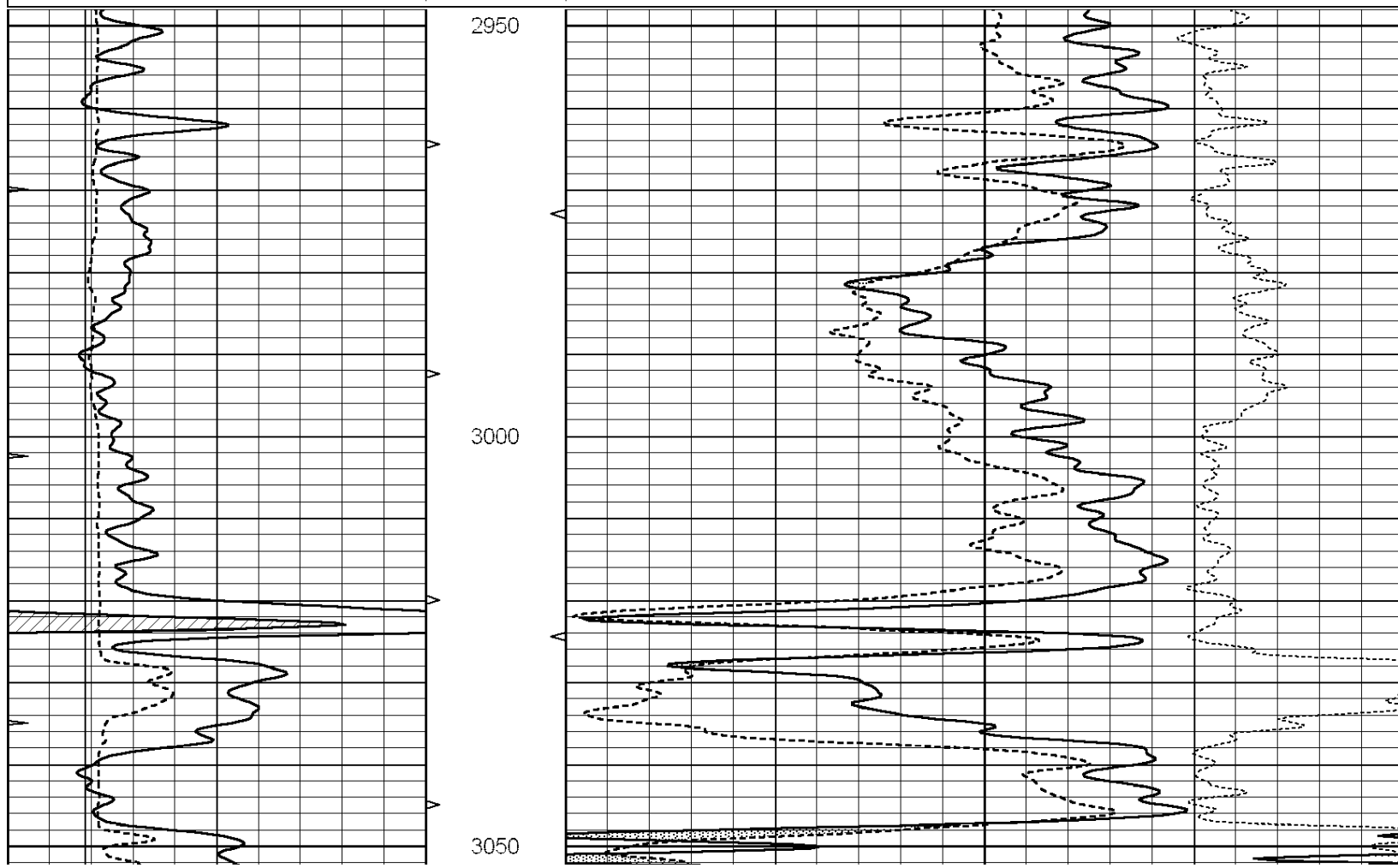
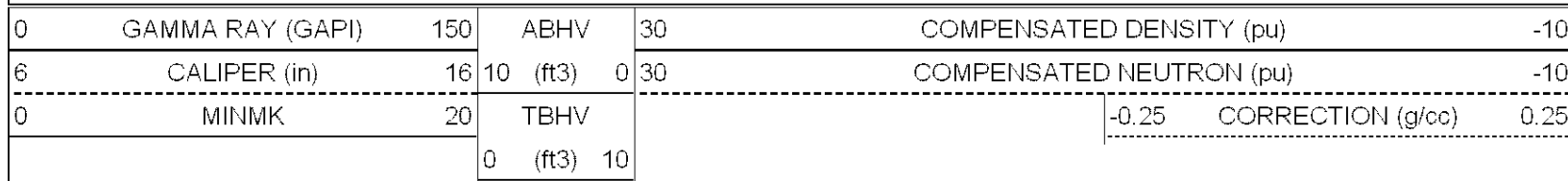


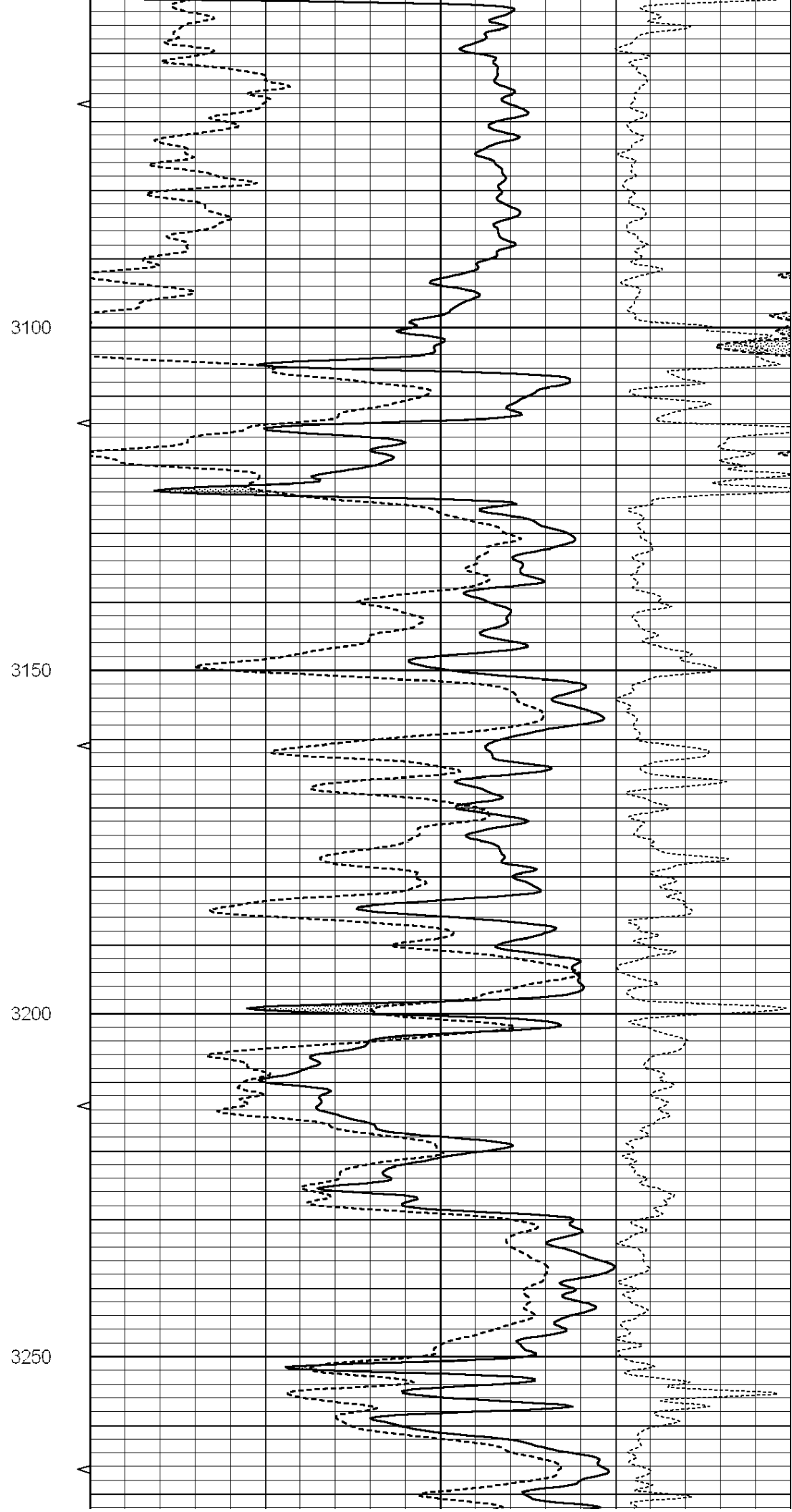
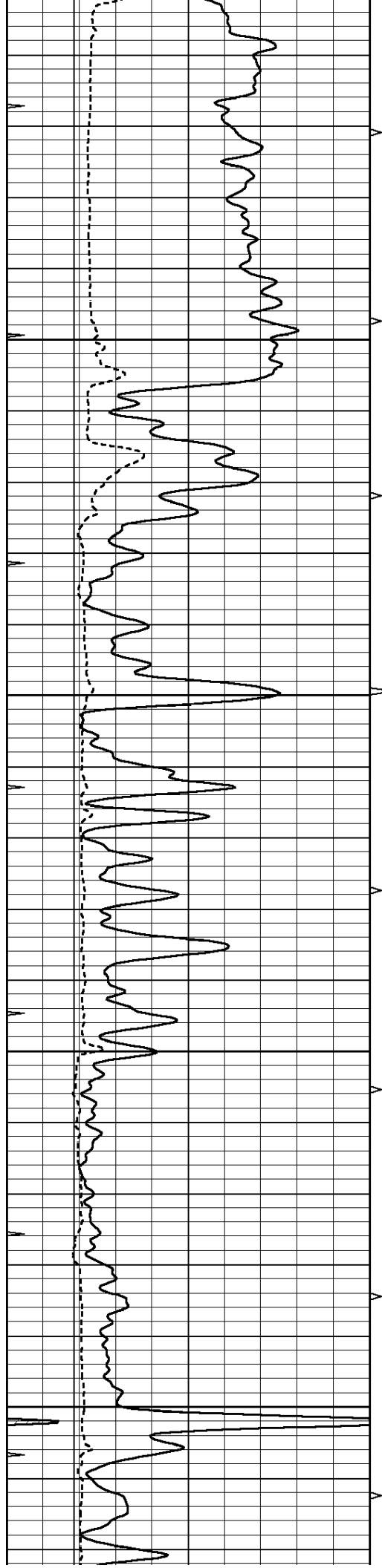


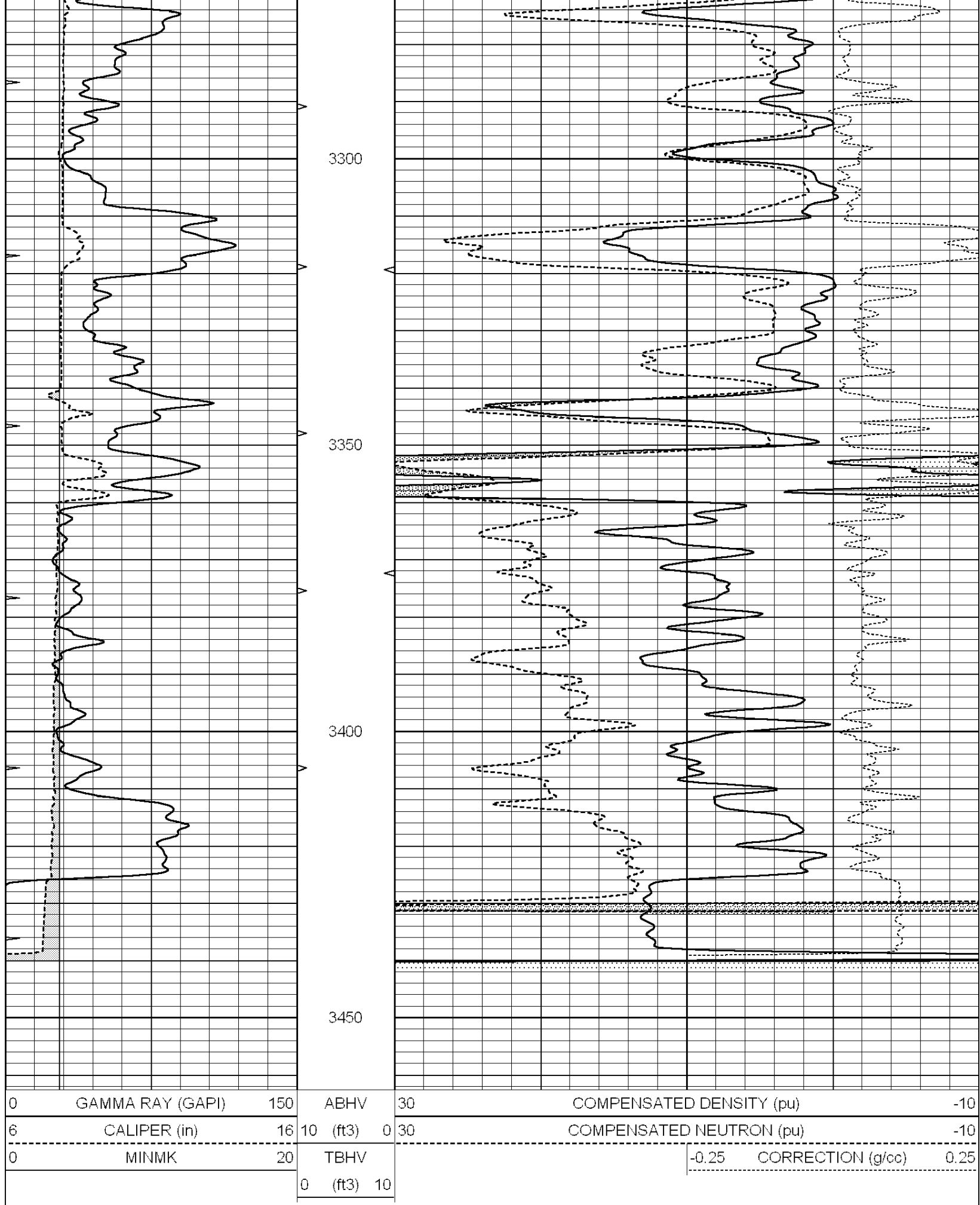
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 001214ddn.db
 Dataset Pathname: pass2.1A
 Presentation Format: den_neu
 Dataset Creation: Tue Dec 13 16:19:30 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240







Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Tue Dec 13 14:50:27 2011

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	520.000	-16.000
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: Tue Dec 13 14:50:14 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	8.50	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: Tue Dec 13 14:49:50 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps