



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	SHELBY RESOURCES, LLC.	Company	SHELBY RESOURCES, LLC.
Well	PENNEY #1-16	Well	PENNEY #1-16
Field		Field	
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25758 2015' FSL & 2225' FWL	Other Services DIL SONIC/MEL	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 9.5' A.G.L. KELLY BUSHING	Elevation K.B. 1883.5 D.F. G.L. 1874	
Date	10-7-12		
Run Number	ONE		
Depth Driller	3570		
Depth Logger	3570		
Bottom Logged Interval	3546		
Top Log Interval	2620	1500 - 1850	
Casing Driller	740		
Casing Logger	738		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.0 / 46		
pH / Fluid Loss	10.5 / 6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.85 @ 60F		
Rmf @ Meas. Temp	0.64 @ 60F		
Rmc @ Meas. Temp	1.02 @ 60F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.460 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	8:00 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	CHARLIE STURDAVANT		

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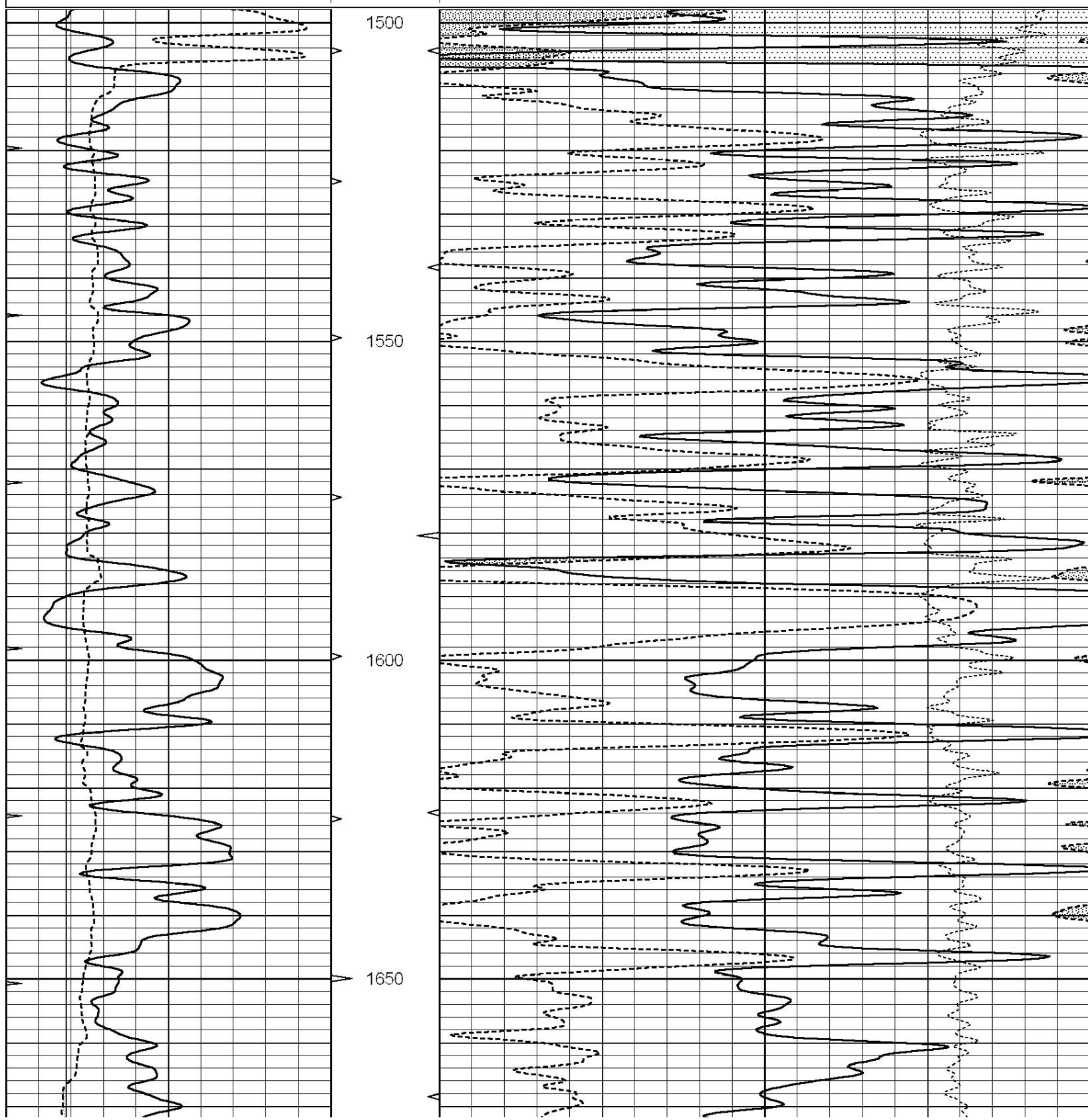
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

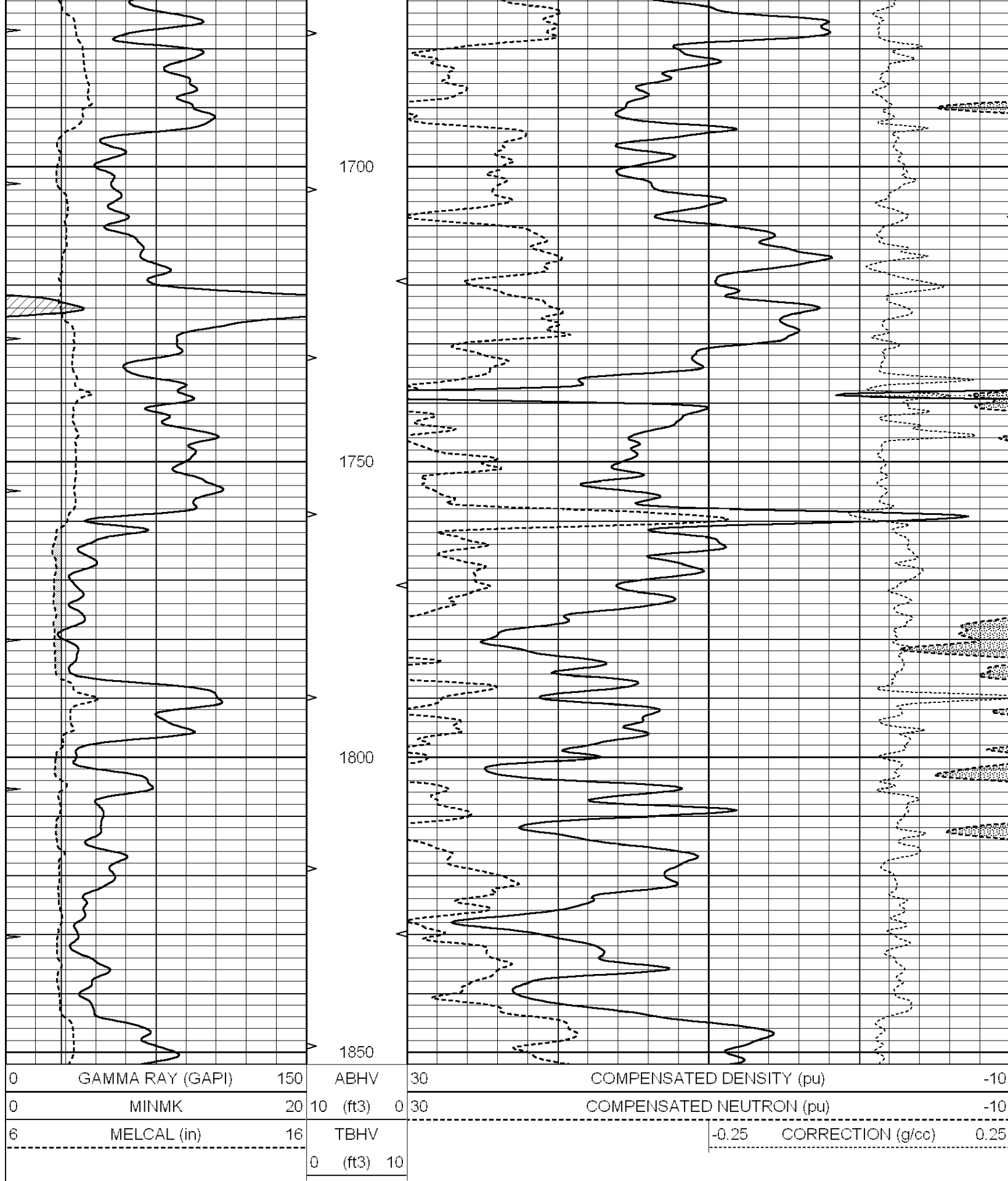
Comments

NABORS PRODUCTION & COMPLETION CO.
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HOISINGTON S TO BARTON COMMUNITY COLLEGE BLACKTOP, E TO K#156, 100'E TO N.E.
60TH, 1S TO N.E. 20TH, 1/2E, N INTO.

Database File: 009929ddn.db
 Dataset Pathname: pass9.2
 Presentation Format: den_neu
 Dataset Creation: Sun Oct 07 13:15:28 2012
 Charted by: Depth in Feet scaled 1:240

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

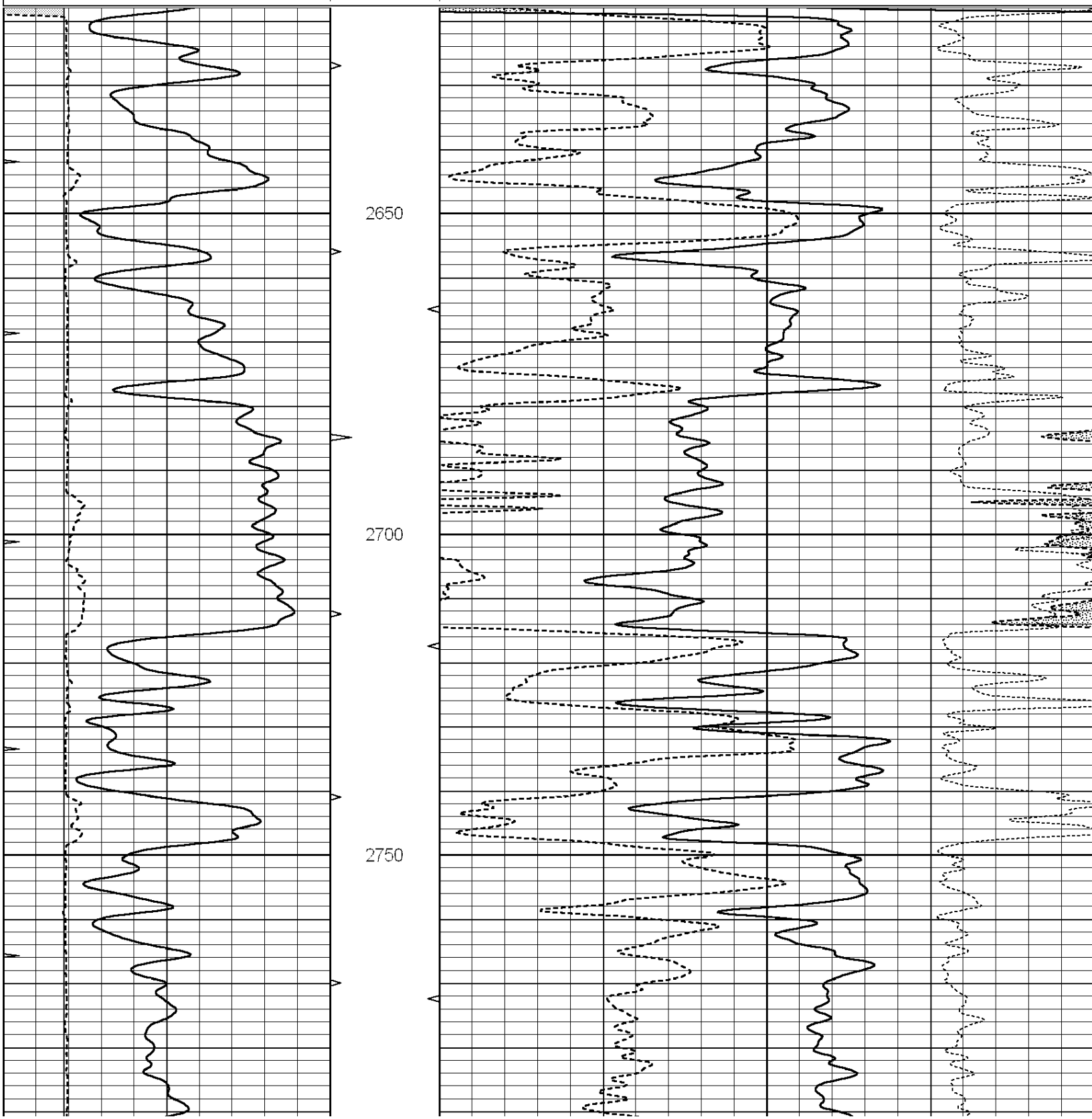


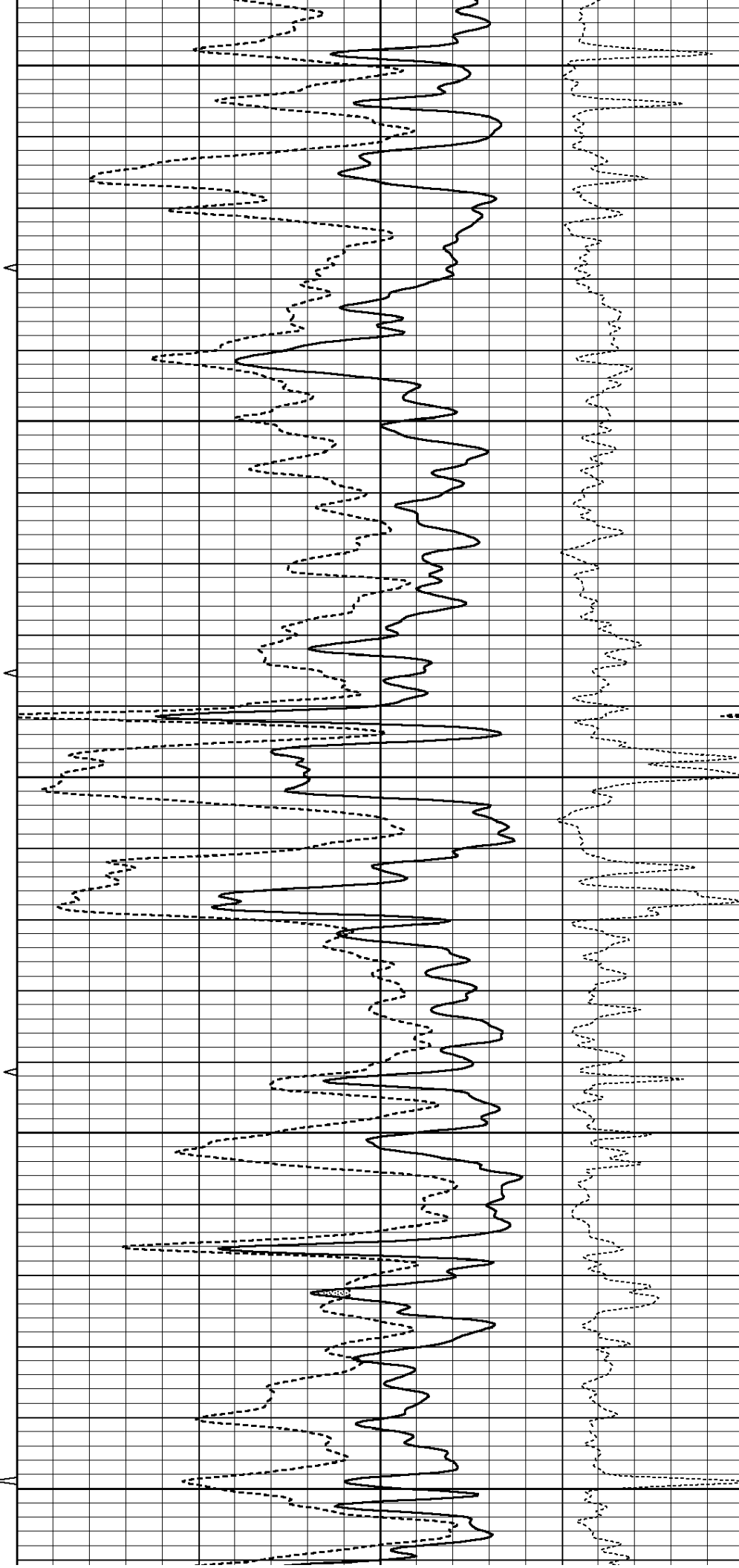
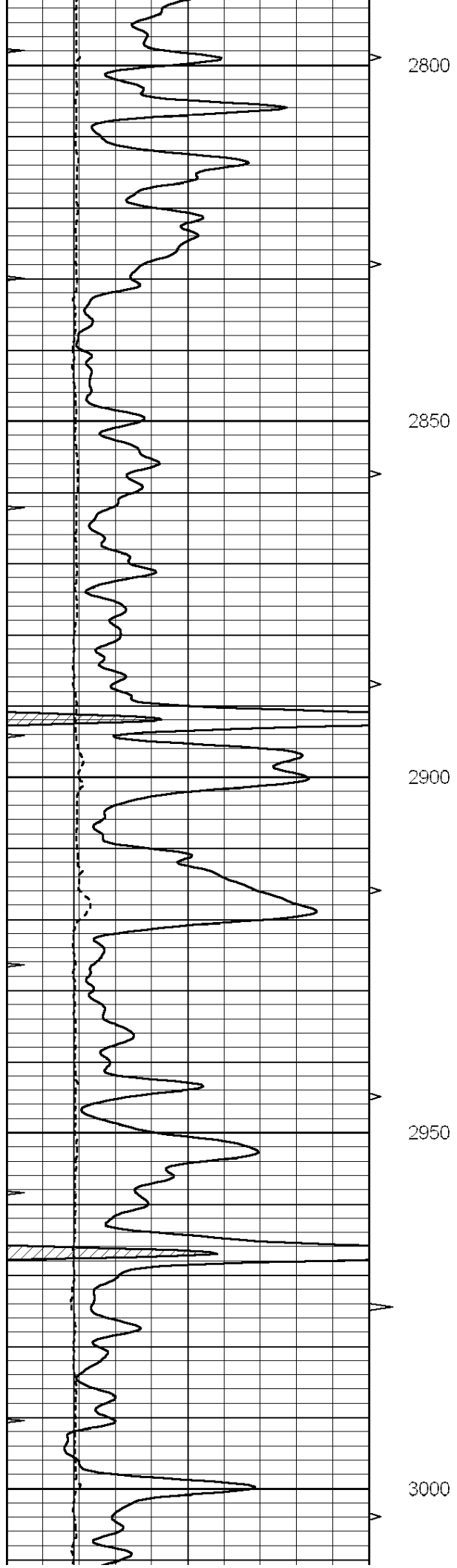


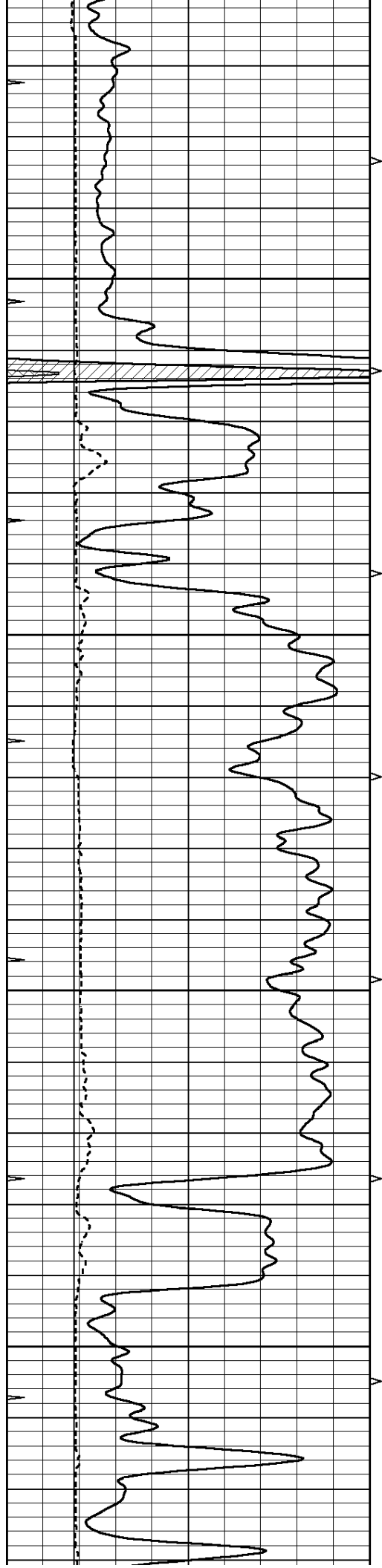
& PRODUCTION SERVICES CO.

Database File: 009929ddn.db
 Dataset Pathname: pass4.2
 Presentation Format: den_neu
 Dataset Creation: Sun Oct 07 10:16:34 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			





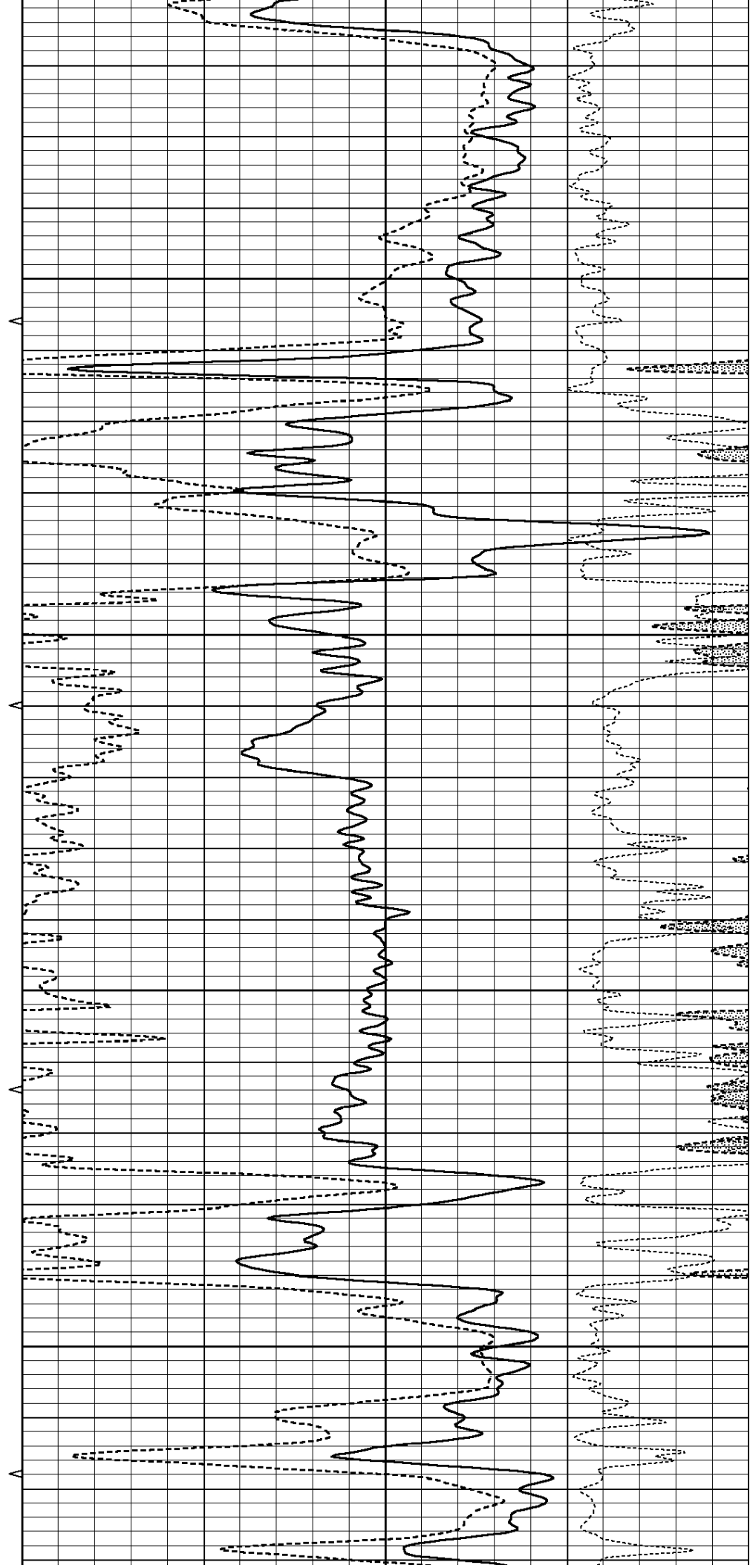


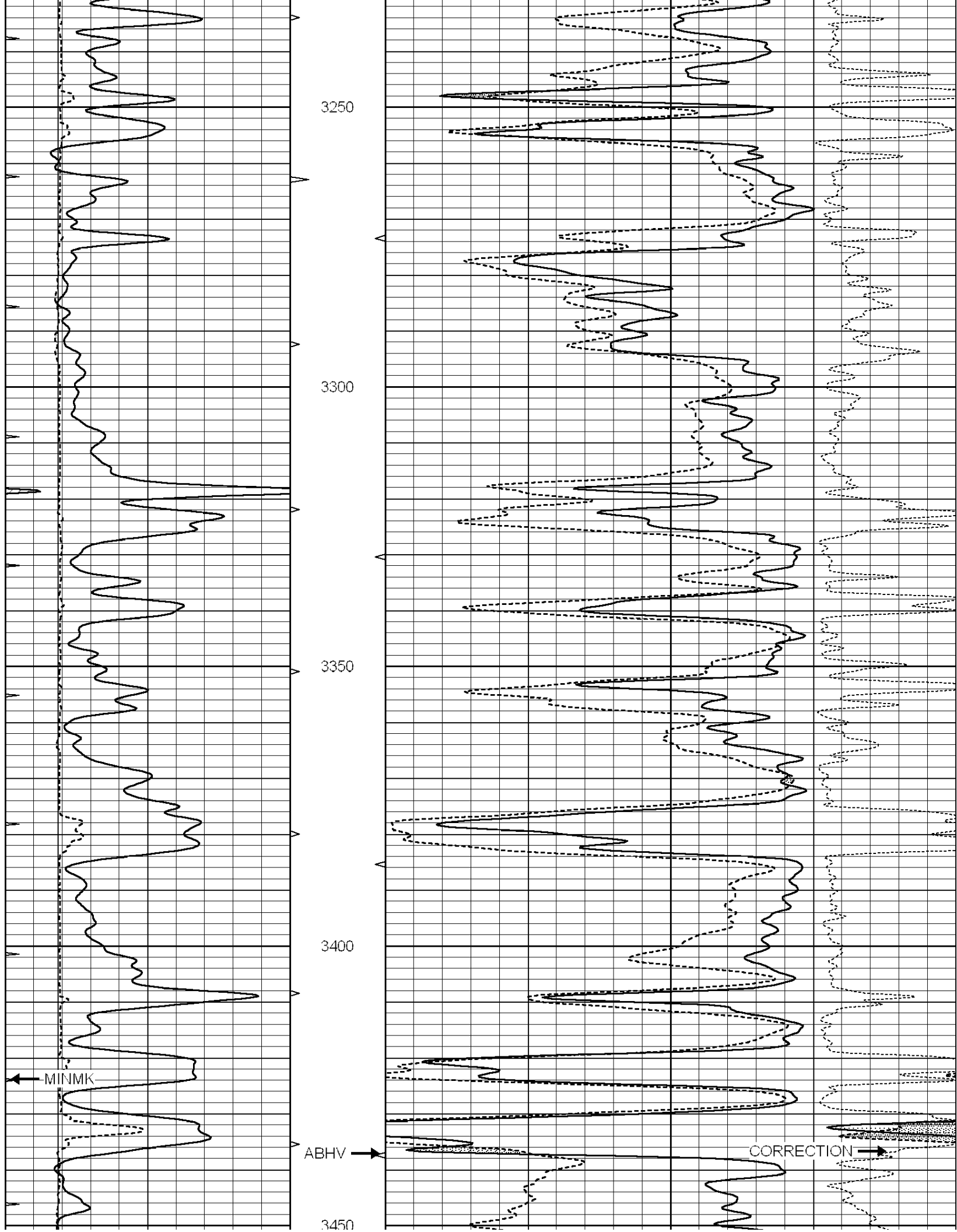
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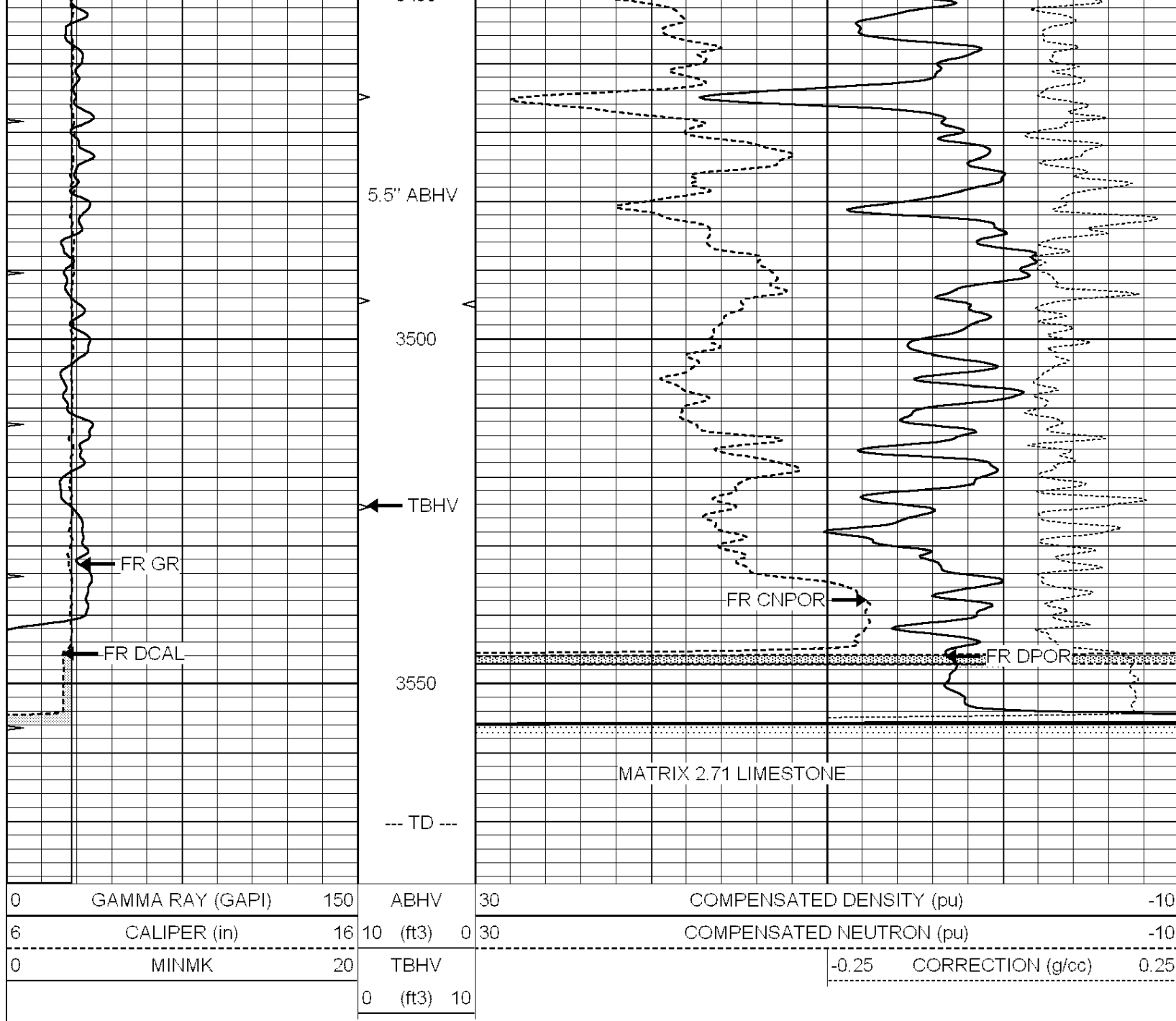
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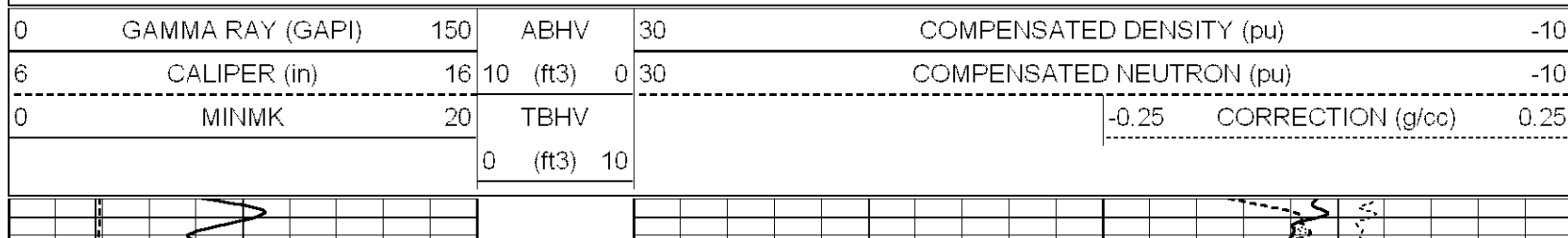


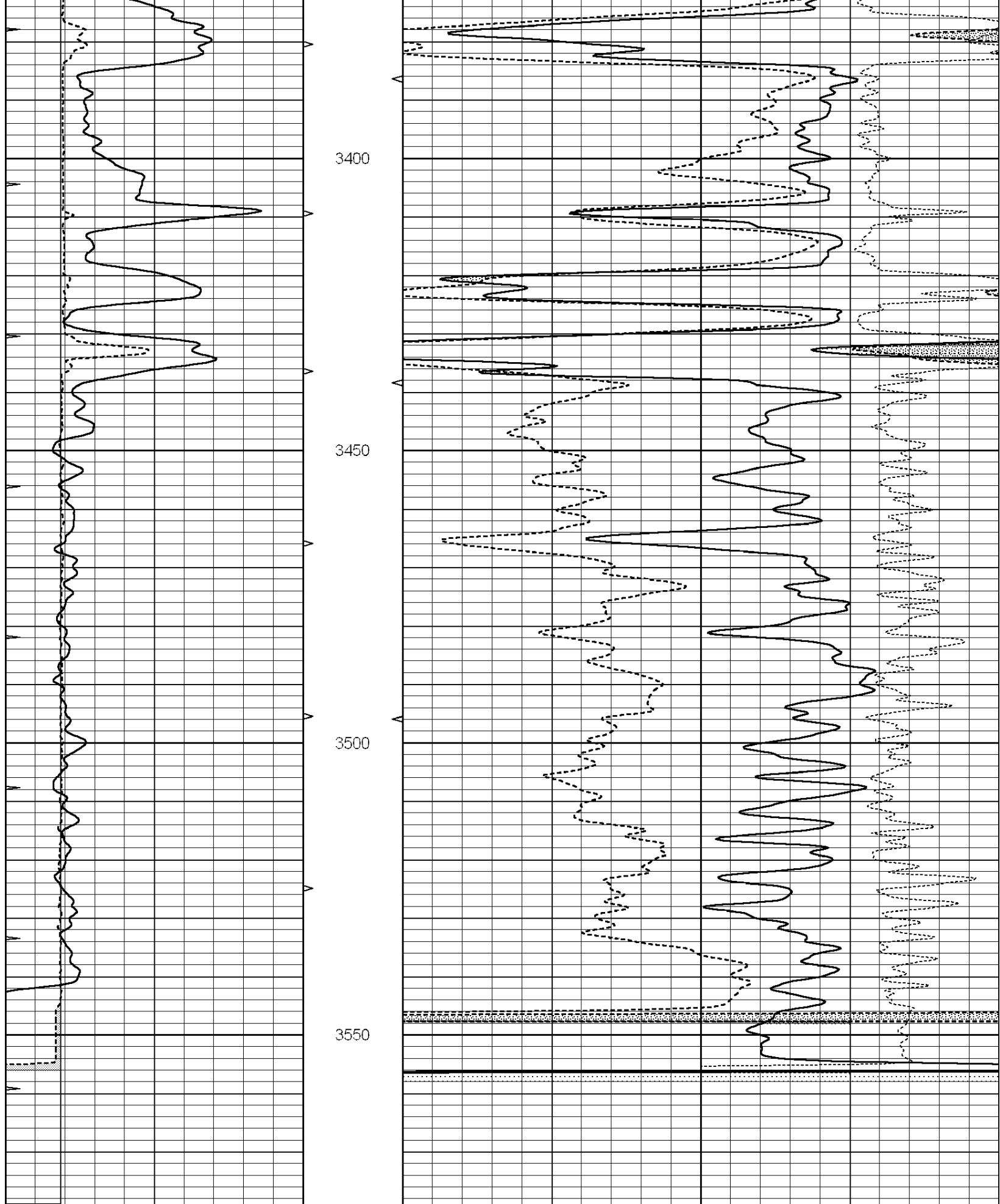




REPEAT SECTION

Database File: 009929ddn.db
 Dataset Pathname: pass3.2
 Presentation Format: den_neu
 Dataset Creation: Sun Oct 07 10:20:29 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

Calibration Report

Database File: 009929ddn.db
 Dataset Pathname: pass4.2
 Dataset Creation: Sun Oct 07 10:16:34 2012

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Sun Oct 07 09:23:24 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-12.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	500.000	-7.000
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: GEAR2-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Sun Oct 07 08:42:35 2012

Master Calibration

	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1451.87		701.81	cps
Aluminum	2.580	g/cc	324.88		493.46	cps
Spine Angle = 76.76			Density/Spine Ratio = 0.566			
	Size		Reading			
Small Ring	8.40	in	5.48	V		
Large Ring	14.00	in	7.58	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: Sun Oct 07 08:49:12 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.7500 GAP/cps