



**SUPERIOR
Hays,
Kansas**

COMPENSATED DENSITY / NEUTRON LOG

Company W.R.WILLIAMS, INC.
Well HEINZ #2
Field BRADSHAW
County HAMILTON
State KANSAS

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Well HEINZ #2
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Location: API # : 15-075-20849-0000
1320' FSL & 495' FWL
E2 - W2 - W2 - SW
SEC 3 TWP 22S RGE 40W
Permanent Datum GROUND LEVEL Elevation 3543
Log Measured From KELLY BUSHING 6' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
Elevation
K.B. 3549
D.F. 3547
G.L. 3543

Date	9/25/09		
Run Number	ONE		
Depth Driller	2758		
Depth Logger	2759		
Bottom Logged Interval	2757		
Top Log Interval	1100		
Casing Driller	8 5/8" @ 265'		
Casing Logger			
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 42	CHLORIDES 54,000	
pH / Fluid Loss	8.0 / NA		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.10 @ 61F		
Rmf @ Meas. Temp	0.08 @ 61F		
Rmc @ Meas. Temp	0.12 @ 61F		
Source of Rmf / Rmc	CAL/CAL		
Rm @ BHT	0.06 @ 105F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	105F		
Equipment Number	680		
Location	HAYS, KS		
Recorded By	JEFF GRONEWEG		
Witnessed By	JOE BROUGHER	ROB WILLIAMS	

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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.

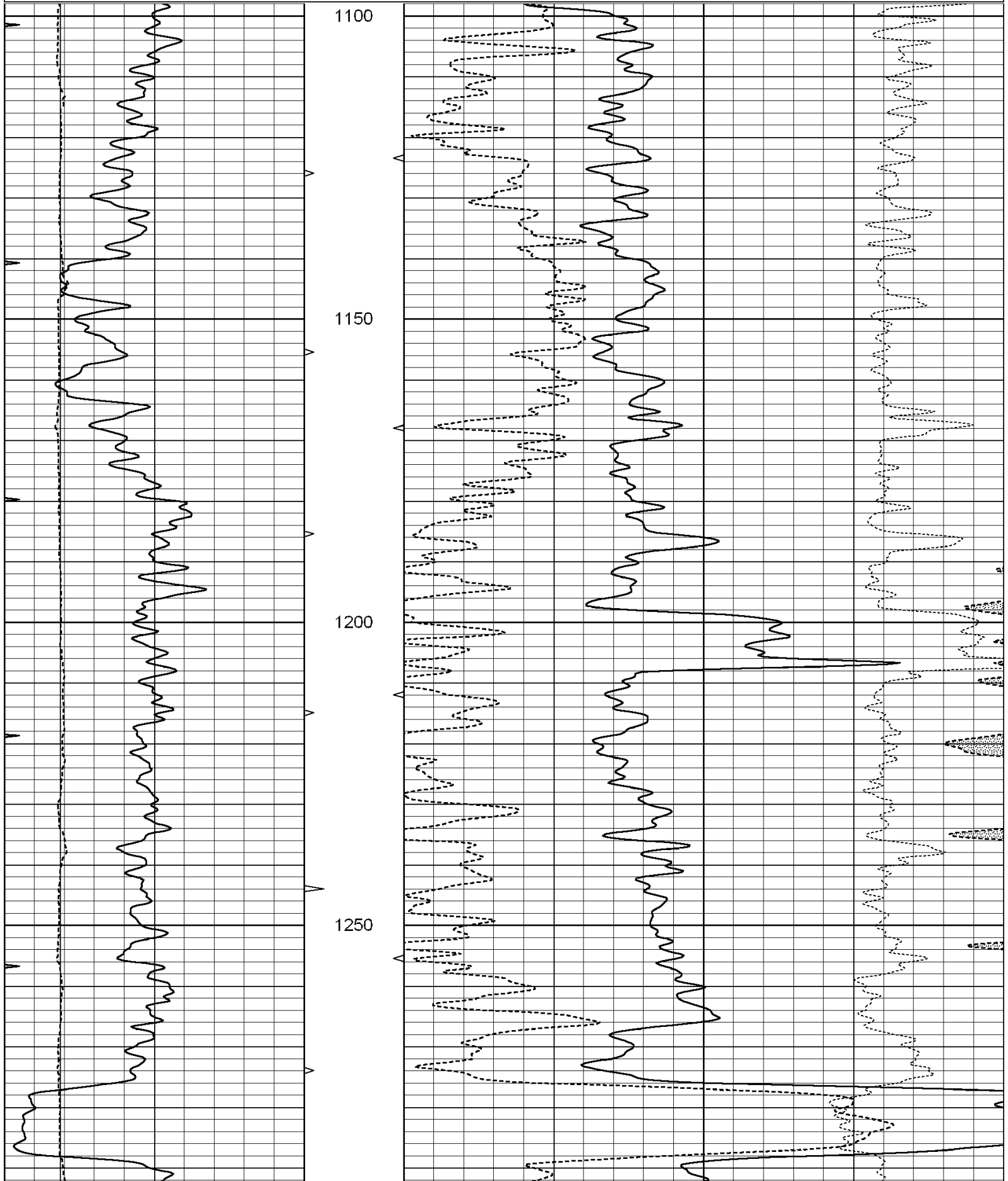
Comments

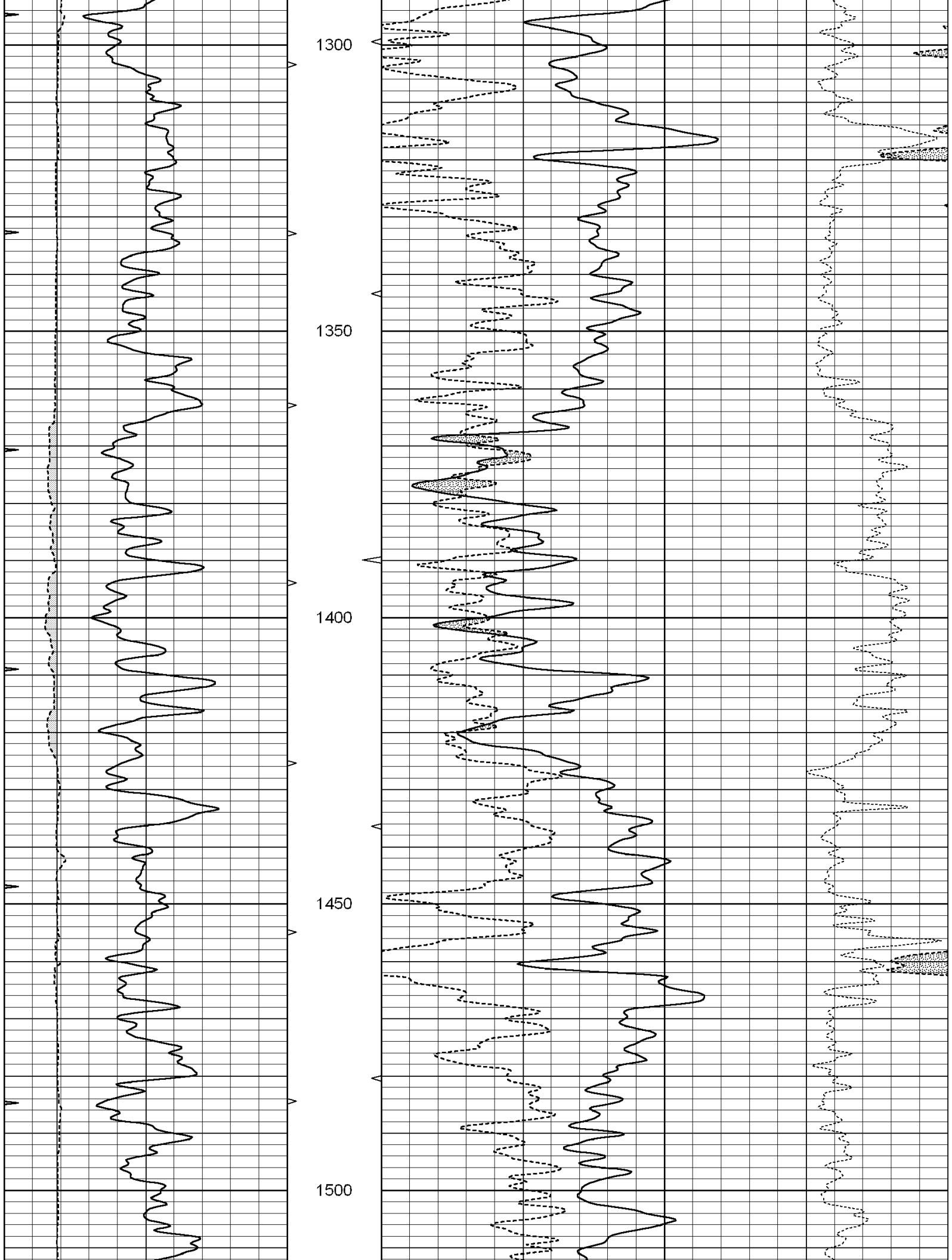
THANK YOU FOR USING SUPERIOR WELL SERVICES
HAYS, KS. 785-628-6395

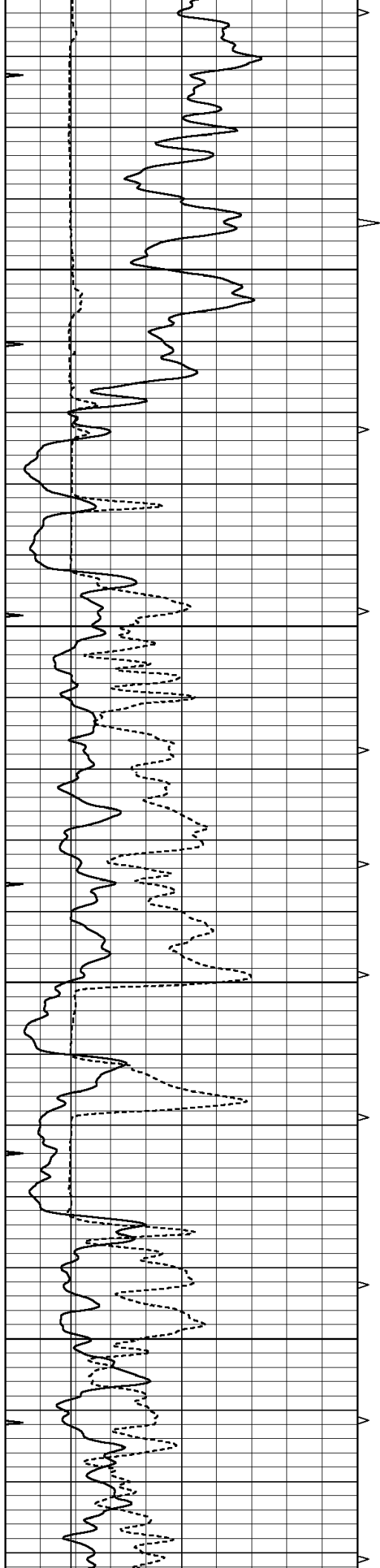
DIRECTIONS: TRIBUNE, KS - SOUTH TO COUNTY LINE - SOUTH 7 MILES TO RD 7
3 MILES EAST - 3/4 MILE SOUTH - EAST INTO

Database File: 004404cdl.db
Dataset Pathname: pass2.2
Presentation Format: _den_neu
Dataset Creation: Fri Sep 25 11:48:37 2009 by Calc Open-Cased 090629

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			





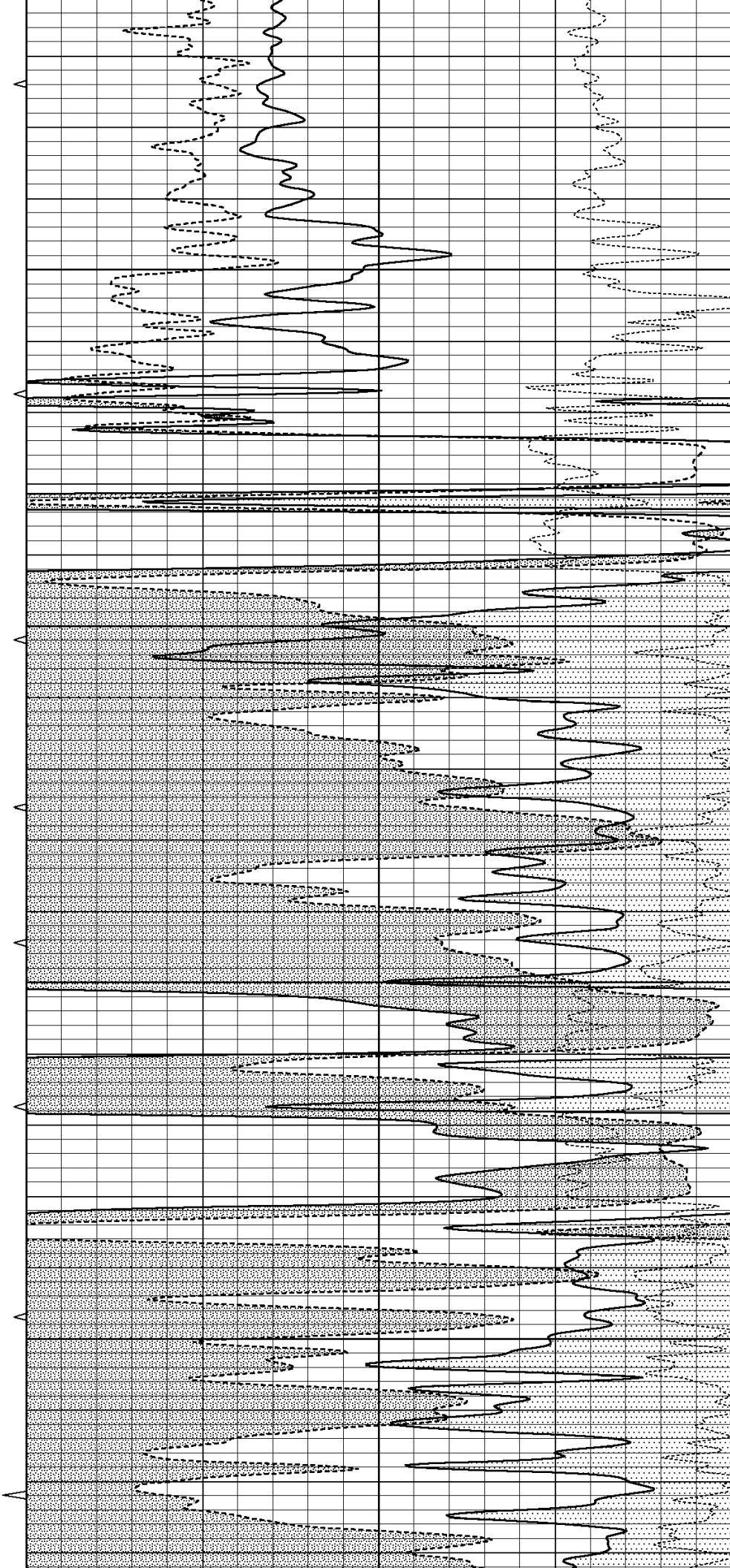


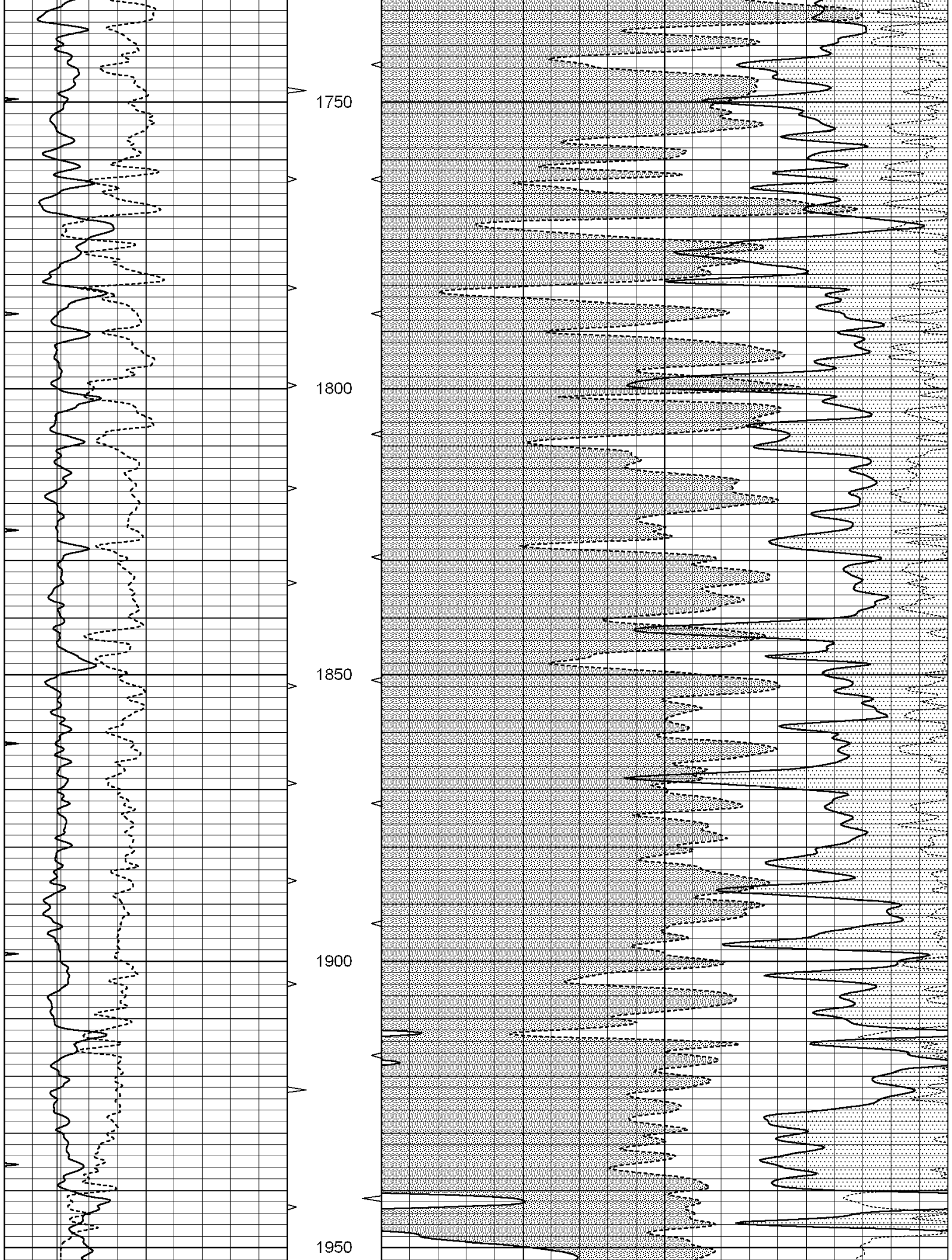
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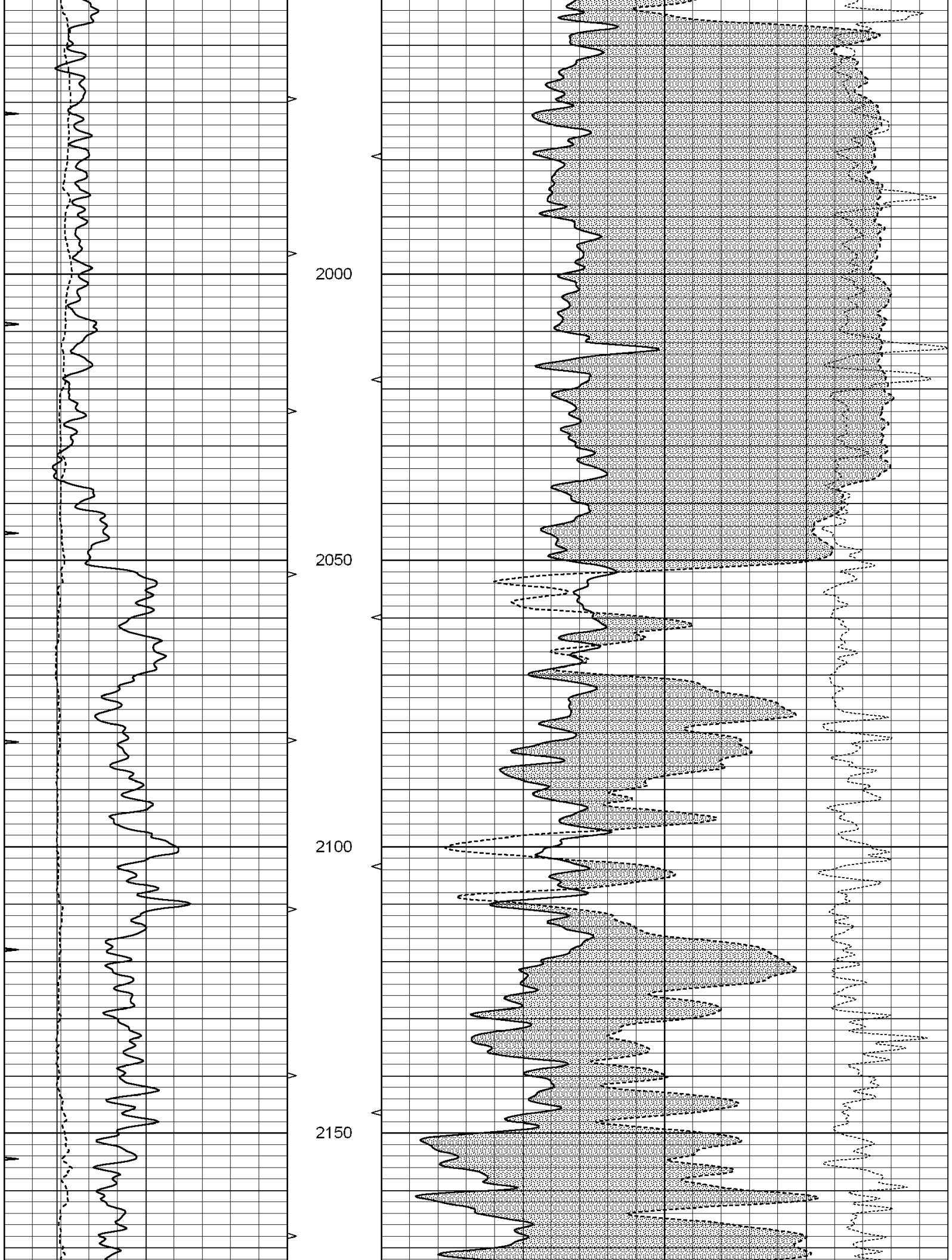
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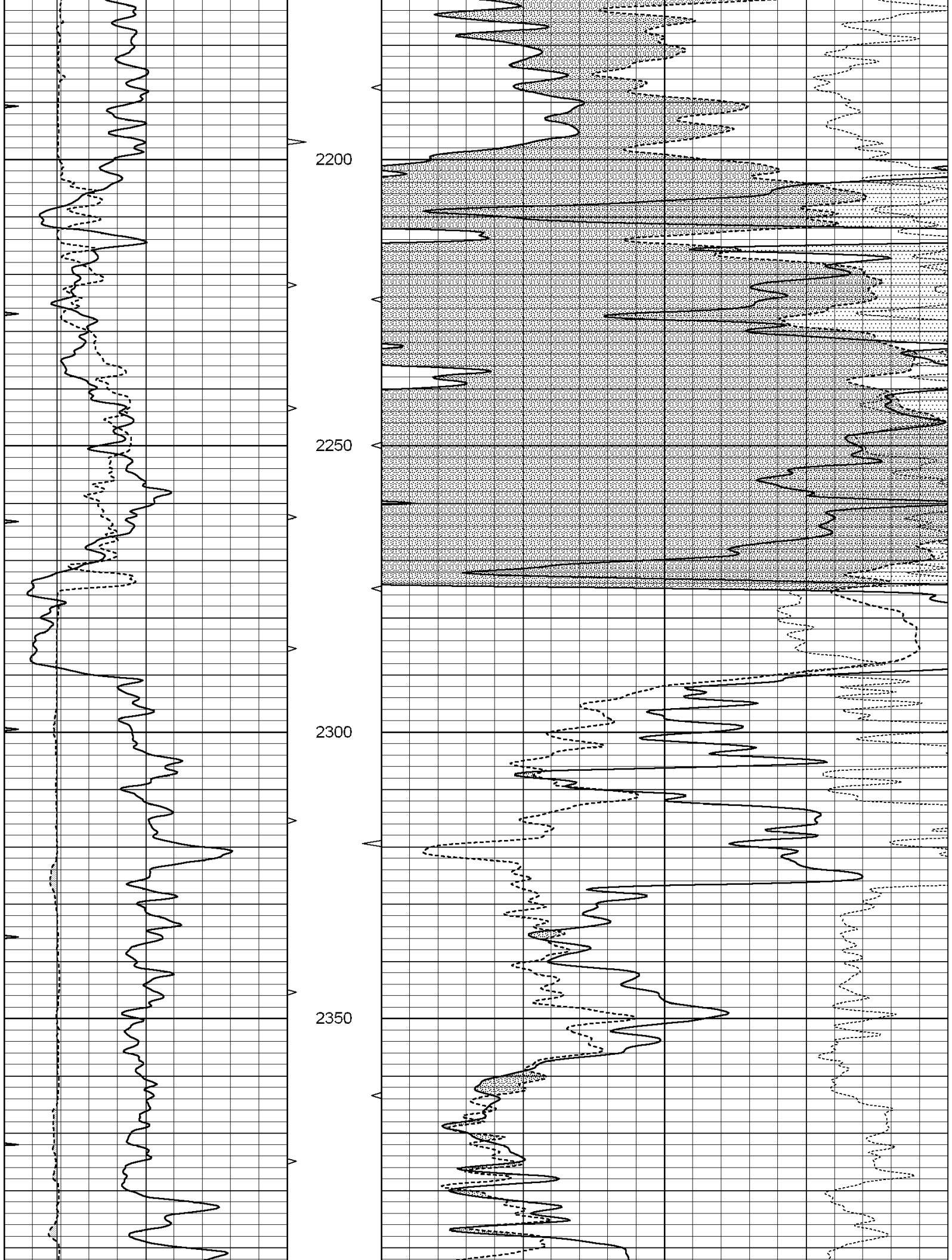
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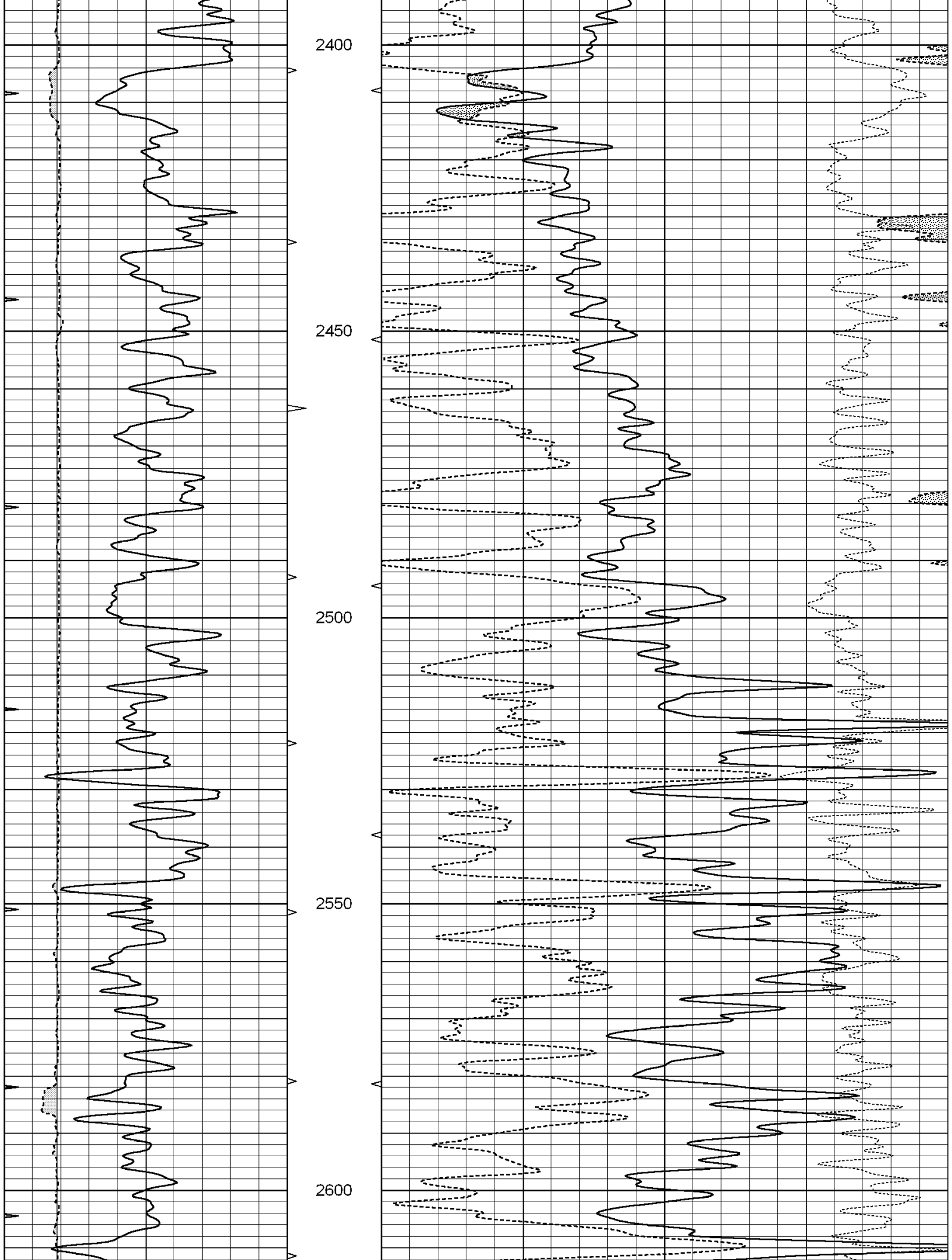
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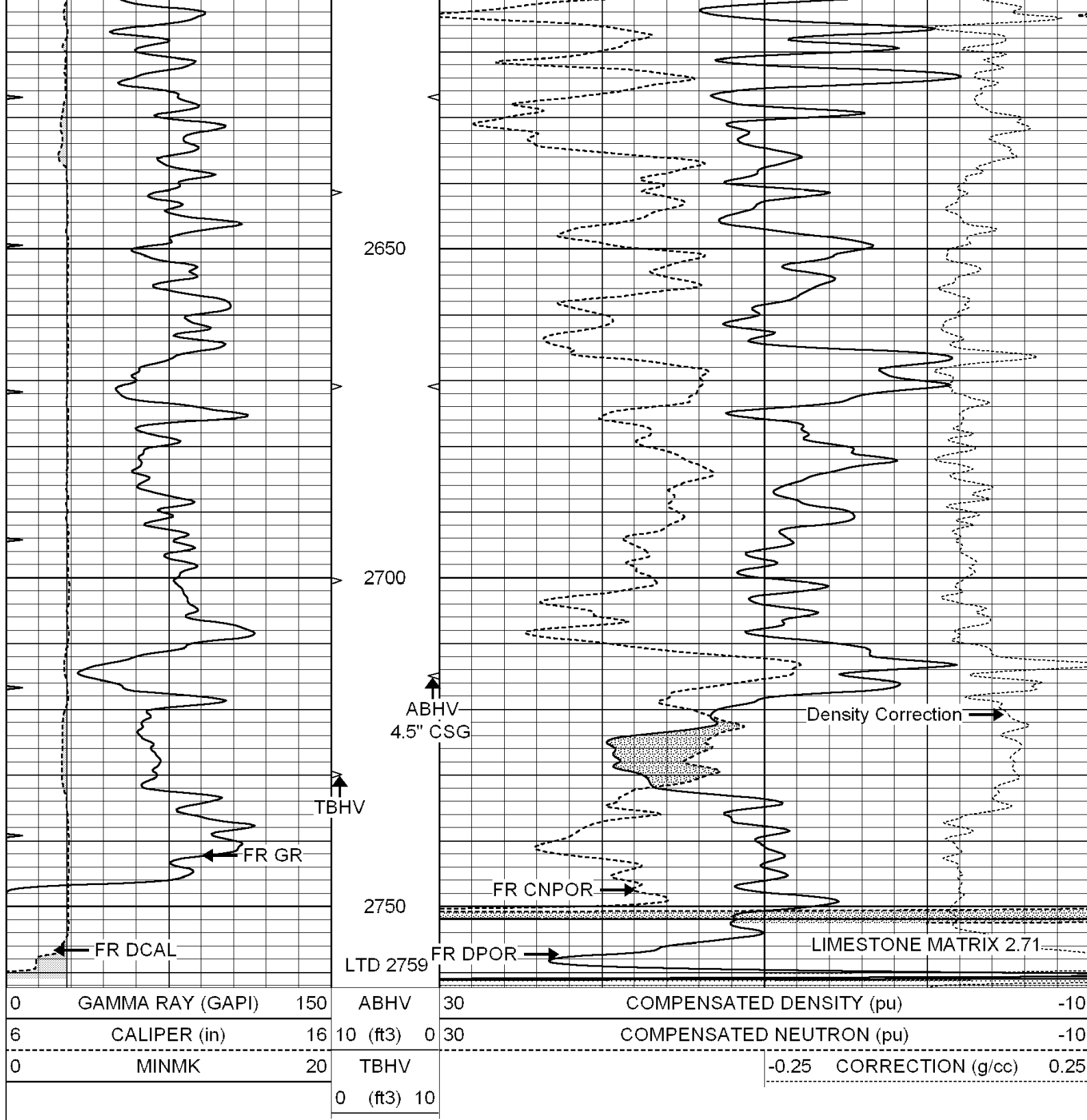










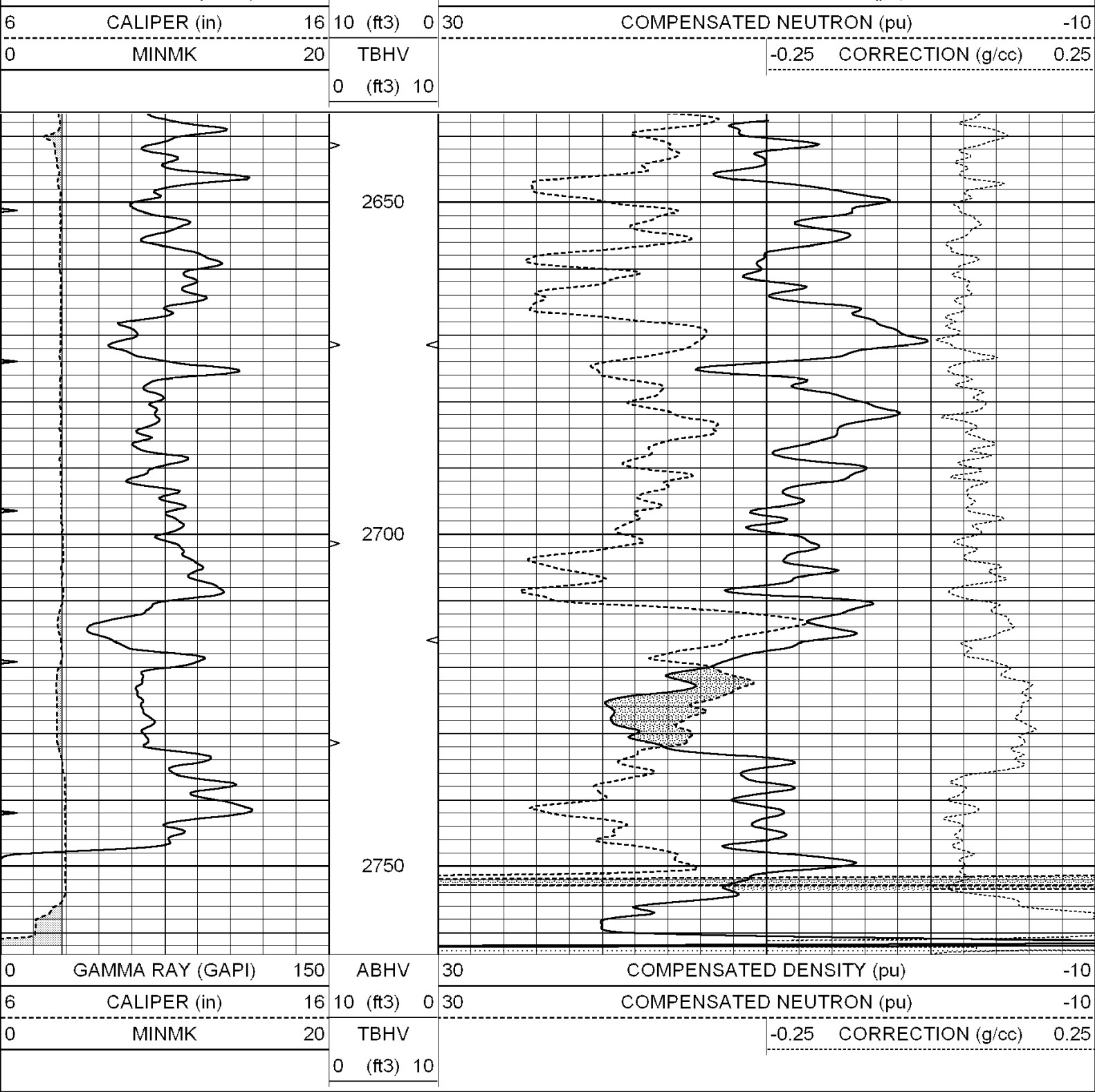


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REPEAT SECTION

Database File: 004404cdl.db
 Dataset Pathname: pass1.4
 Presentation Format: _den_neu
 Dataset Creation: Fri Sep 25 11:07:24 2009 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
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Calibration Report			
Database File:	004404cdl.db		
Dataset Pathname:	pass2.2		
Dataset Creation:	Fri Sep 25 11:48:37 2009 by Calc Open-Cased 090629		
Compensated Density Calibration Report			
Serial-Model:	GEAR4-GEARHART		
Source / Verifier:	143 / 143		
Master Calibration Performed:	Fri Jan 16 10:06:35 2009		
Master Calibration			
	Density	Far Detector	Near Detector

Magnesium	1.710	g/cc	1358.55	649.93	cps
Aluminum	2.570	g/cc	325.11	479.52	cps
Spine Angle = 78.00			Density/Spine Ratio = 0.588		
	Size		Reading		
Small Ring	8.00	in	3.56	V	
Large Ring	14.00	in	6.65	V	
Compensated Neutron Calibration Report					
Serial Number:			5I		
Tool Model:			G		
CALIBRATION					
Detector		Readings		Target	
				Normalization	
Short Space		1.00	cps	1.00	cps
Long Space		1.00	cps	1.00	cps
Gamma Ray Calibration Report					
Serial Number:		GR6			
Tool Model:		OPEN			
Performed:		Thu Jul 09 09:06:42 2009			
Calibrator Value:		150.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		276.0	cps		
Sensitivity:		0.6835	GAPI/cps		