



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
NEUTRON / DENSITY
PE LOG**

Company	LARIO OIL & GAS CO.		
Well	LUMBERT #1-2		
Field			
County	SUMNER		
State	KANSAS		
Company	LARIO OIL & GAS COMPANY		
Well	LUMBERT #1-2		
Field			
County	SUMNER	State	KANSAS
Location:	API # : 15-191-22569-0000		Other Services
80' E & 10' S OF S/2 - NW - SW - SE		Elevation	DIL MEL/SON
815' FSL & 2230' FEL			
SEC 2 TWP 33S RGE 1W			
Permanent Datum	GROUND LEVEL	Elevation	1224
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	11/24/09		
Run Number	CNE		
Depth Driller	4401		
Depth Logger	4402		
Bottom Logged Interval	4379		
Top Log Interval	2600		
Casing Driller	8 5/8" @ 297'		
Casing Logger	305'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	3,000 PPM
Density / Viscosity	9.1 / 53		
pH / Fluid Loss	10.0 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.75 @ 79F		
Rmf @ Meas. Temp	0.56 @ 79F		
Rmc @ Meas. Temp	0.90 @ 79F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.50 @ 119F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	119F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	DAN GOTTSCHALK		
Witnessed By	VERN SCHRAG		

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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

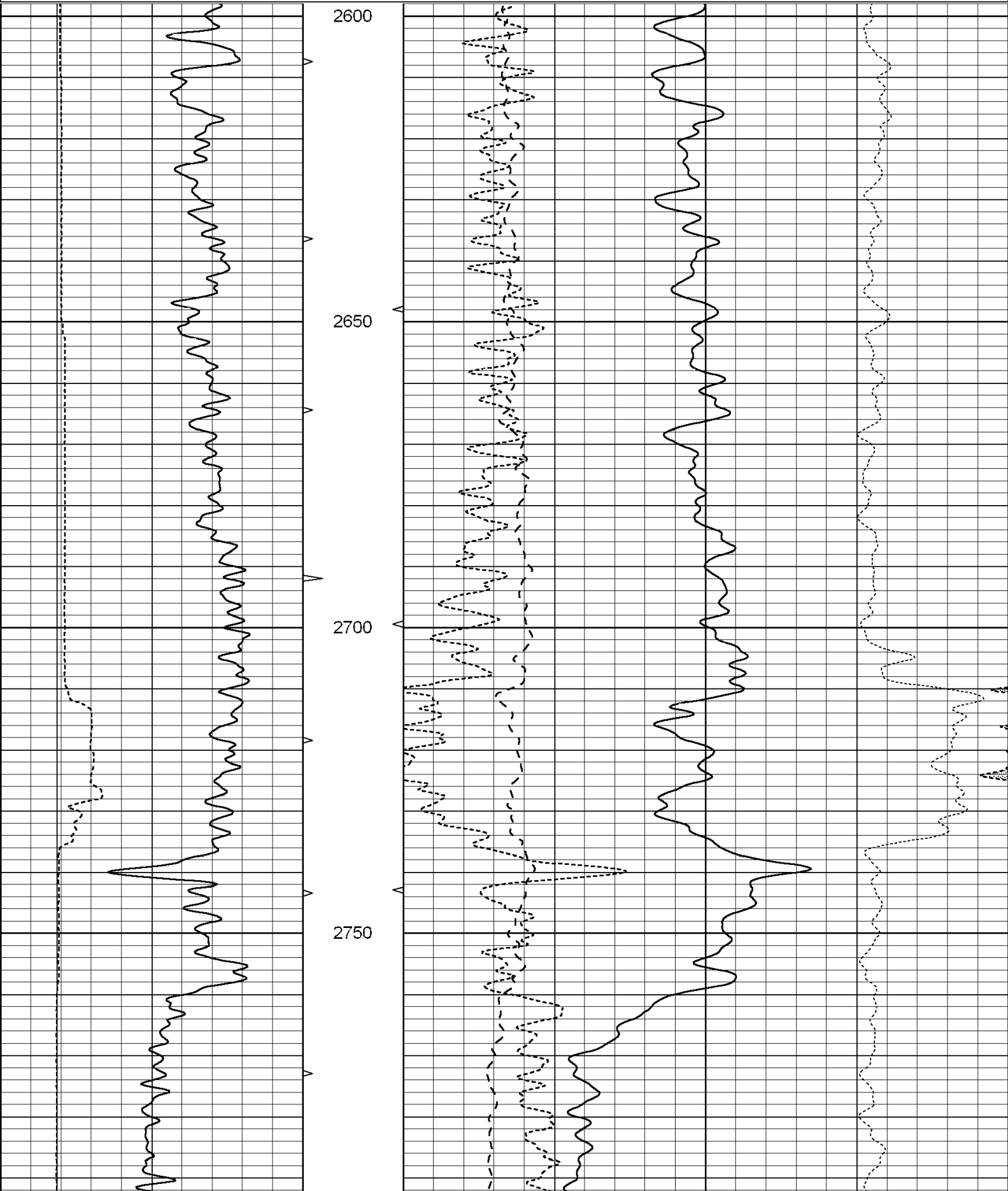
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
HWY 160 & HWY 81 - WEST EDGE OF WELLINGTON - 3 1/2 SOUTH TO 50TH - 1 EAST -
1/2 SOUTH - WEST INTO

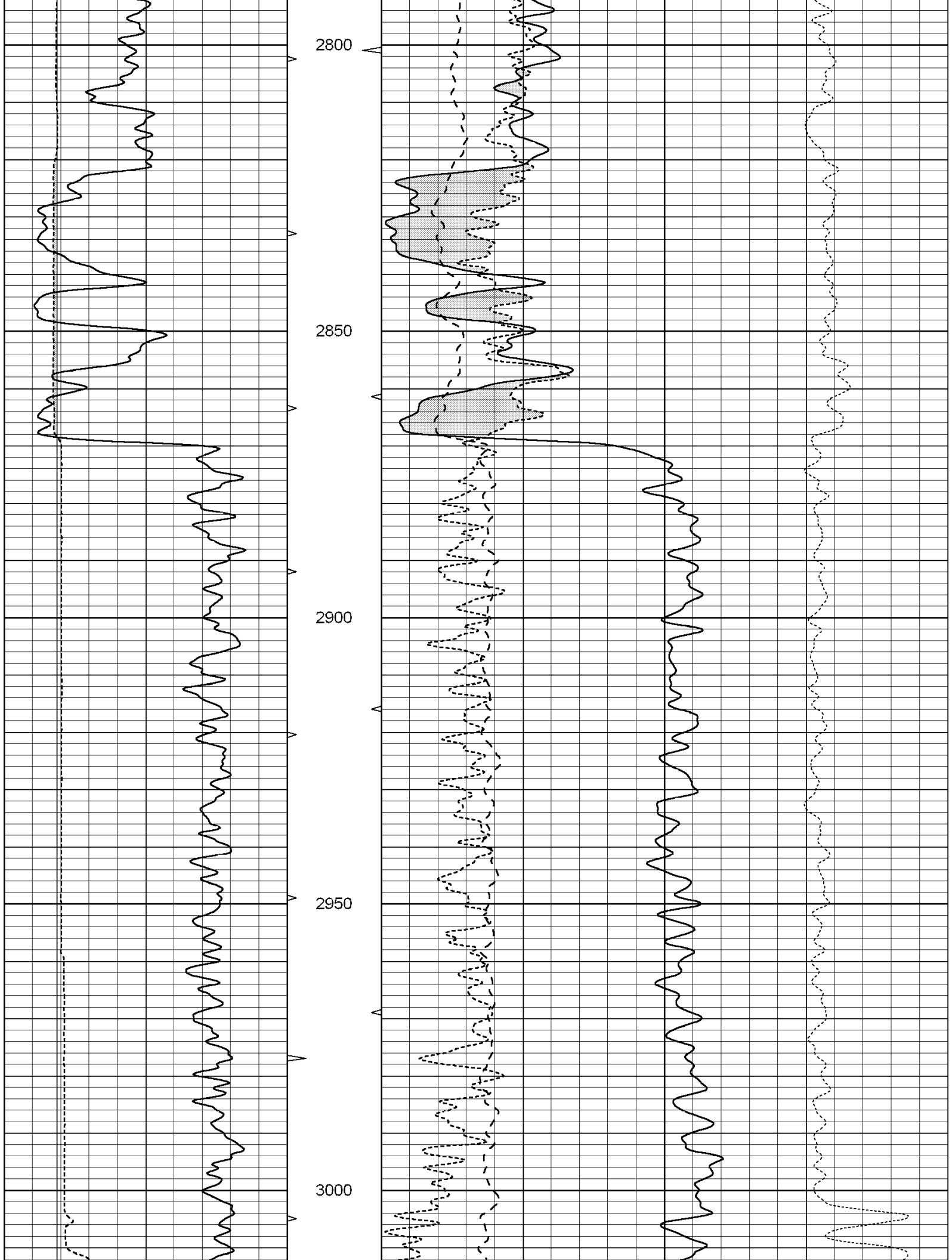
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Dataset Pathname: pass5.2
Presentation Format: ldt_neu
Dataset Creation: Tue Nov 24 18:48:49 2009 by Calc Open-Cased 060407

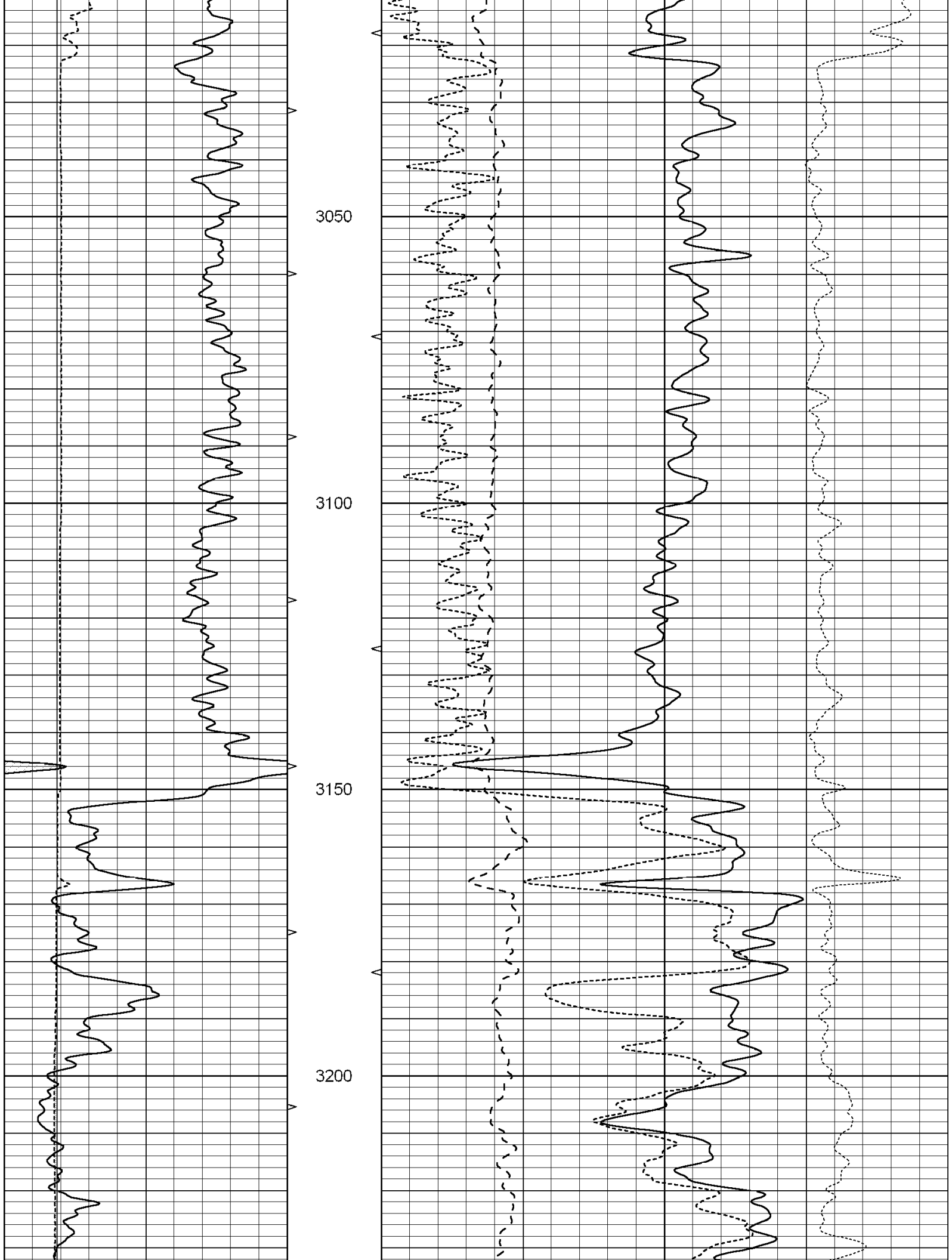
Charted by:

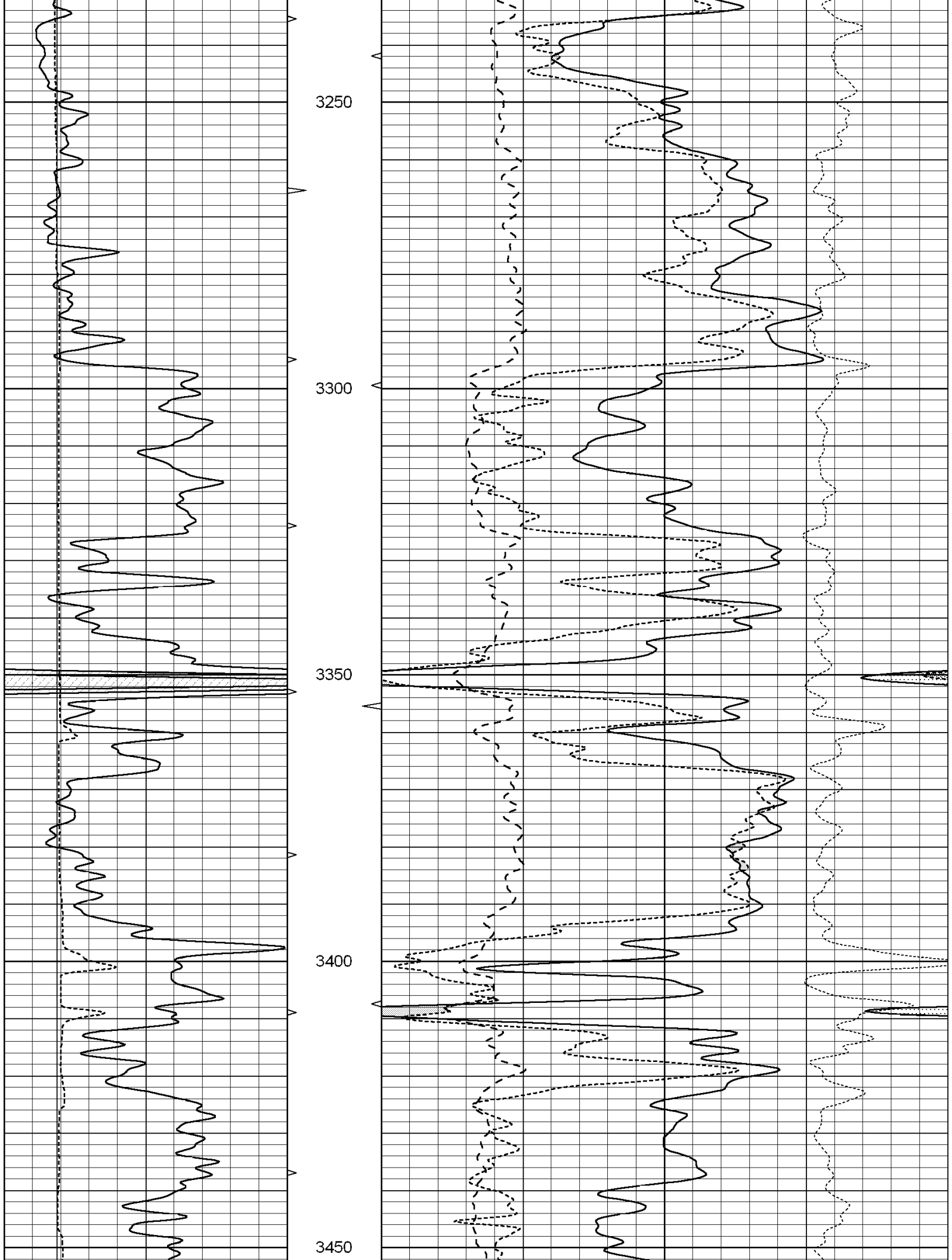
Depth in Feet scaled 1:240

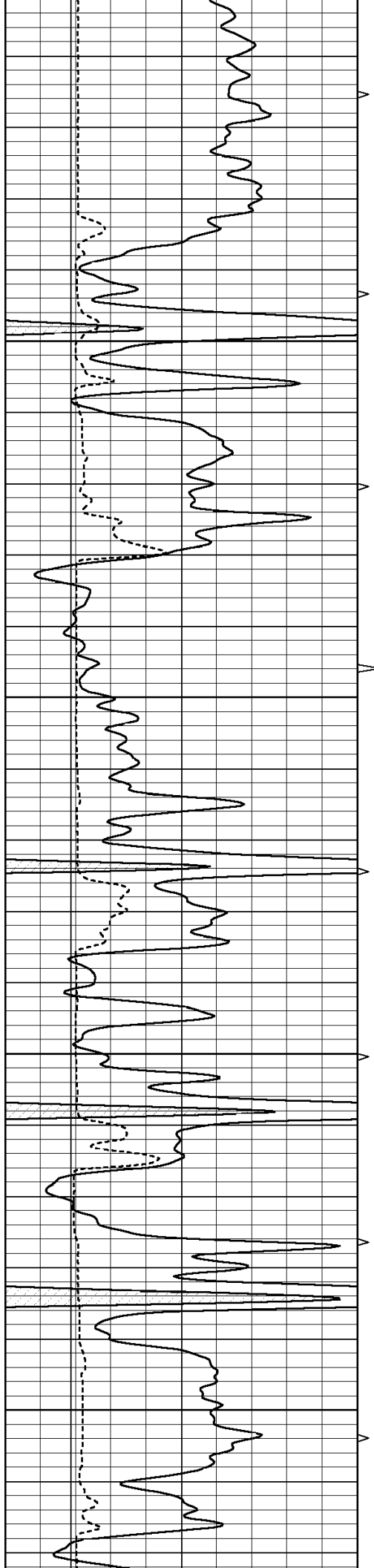
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25
			0 (ft3) 10	CORRECTION (g/cc) 0.25		









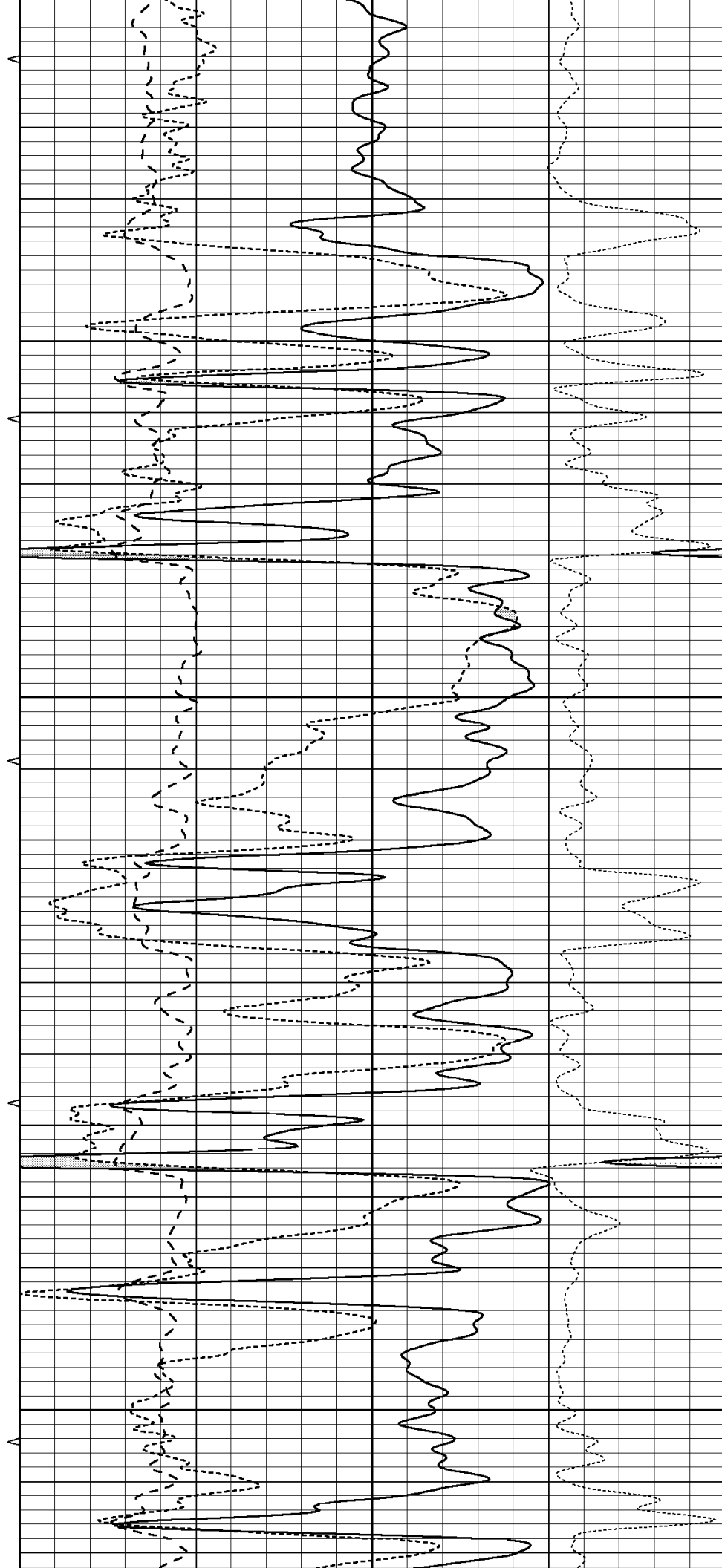


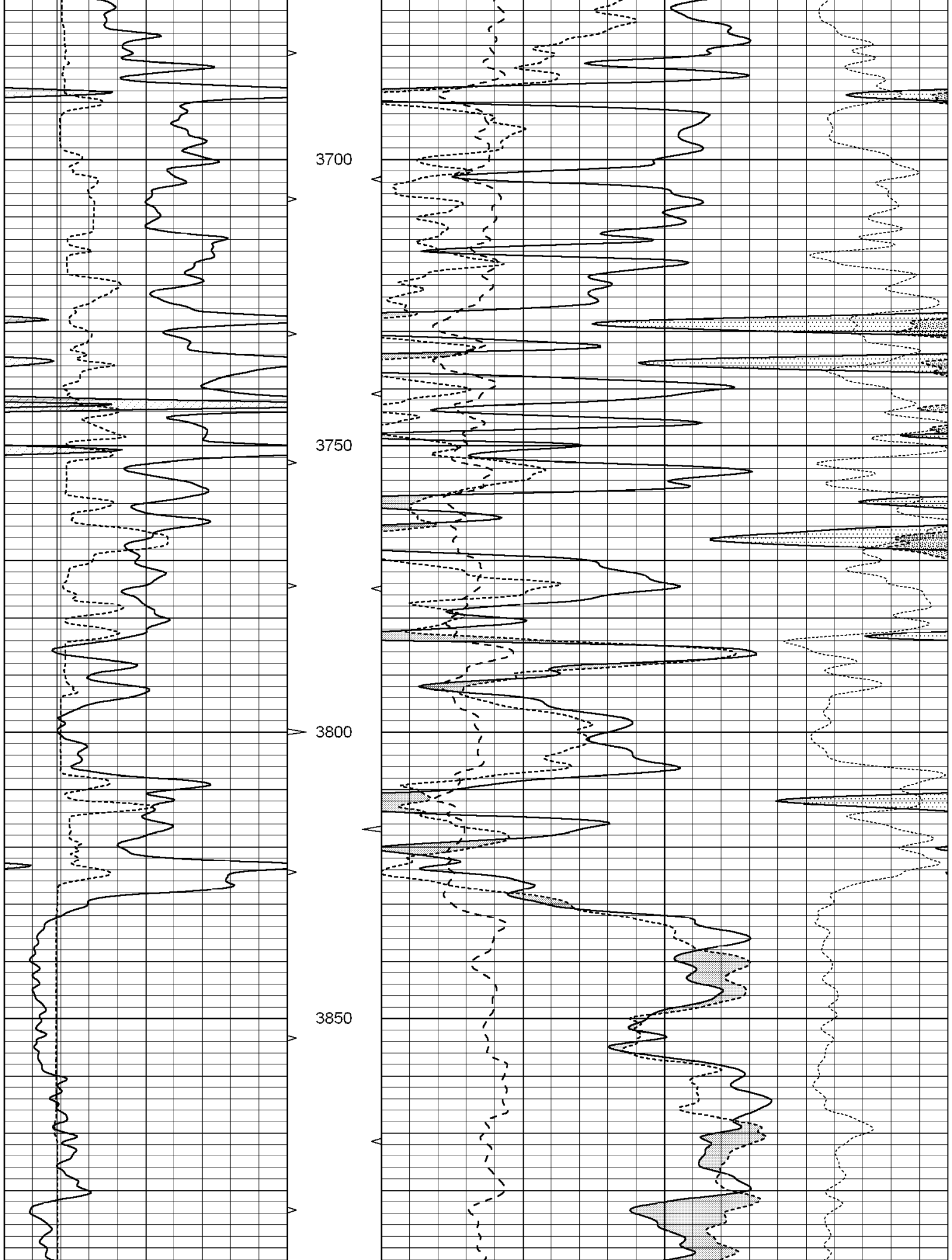
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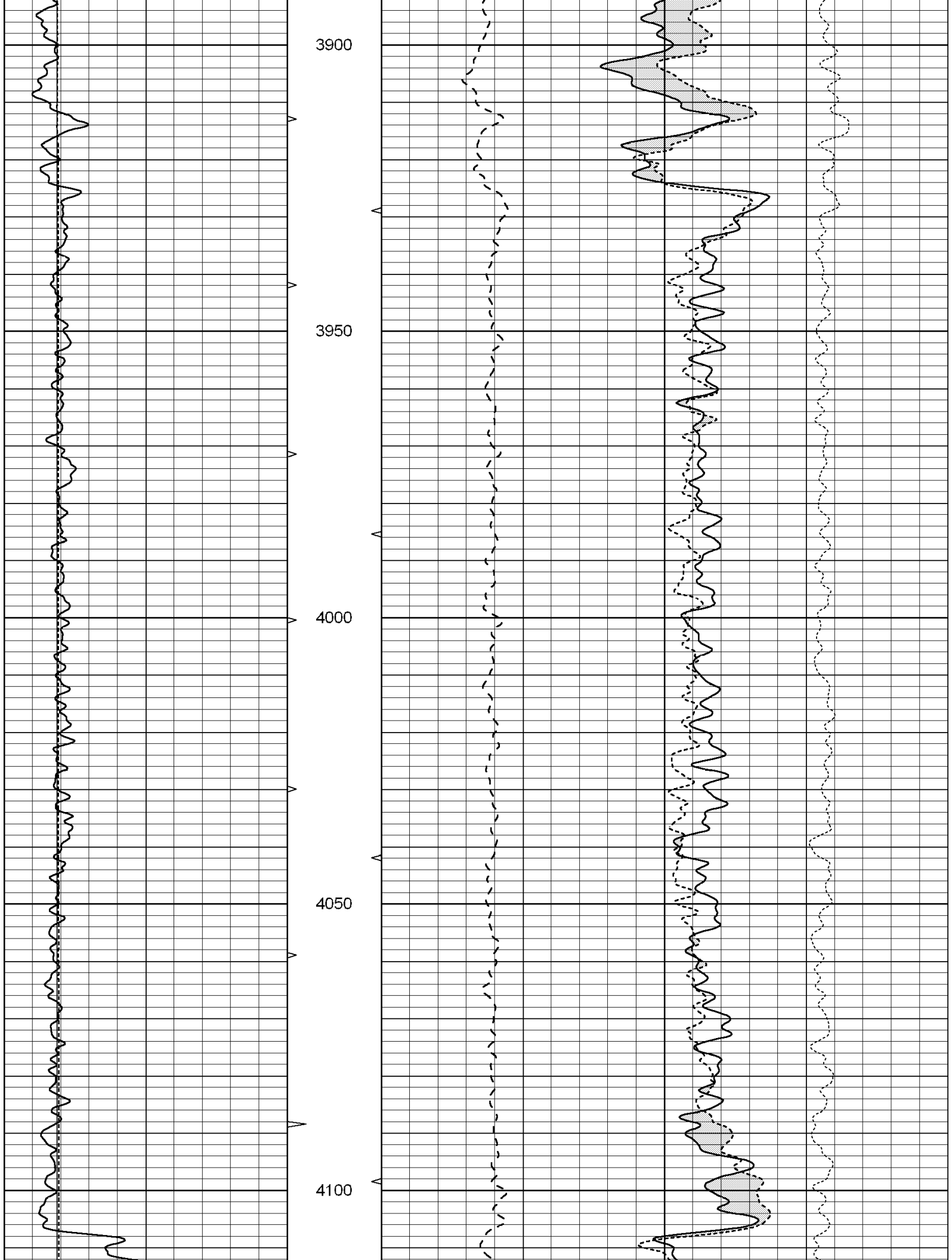
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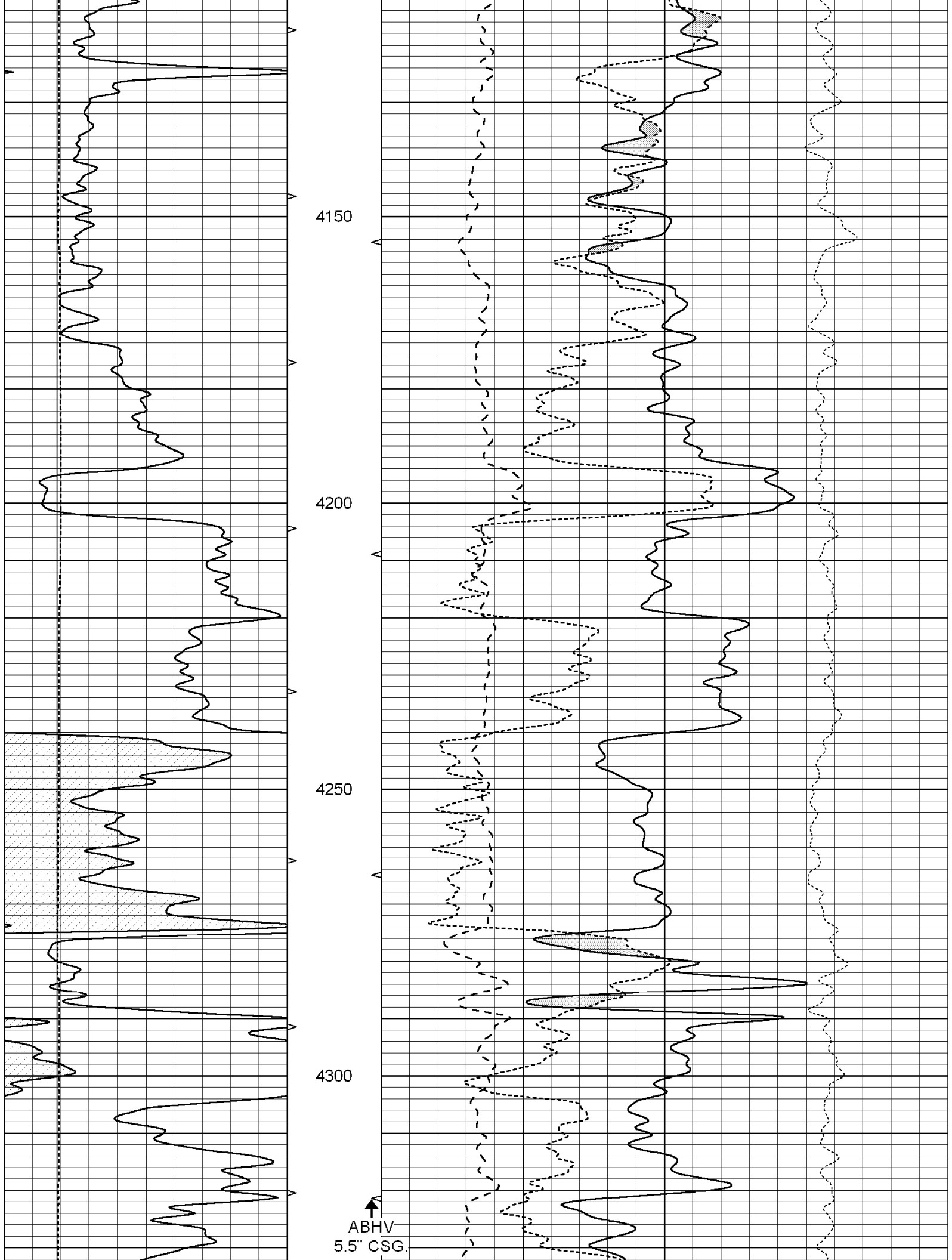
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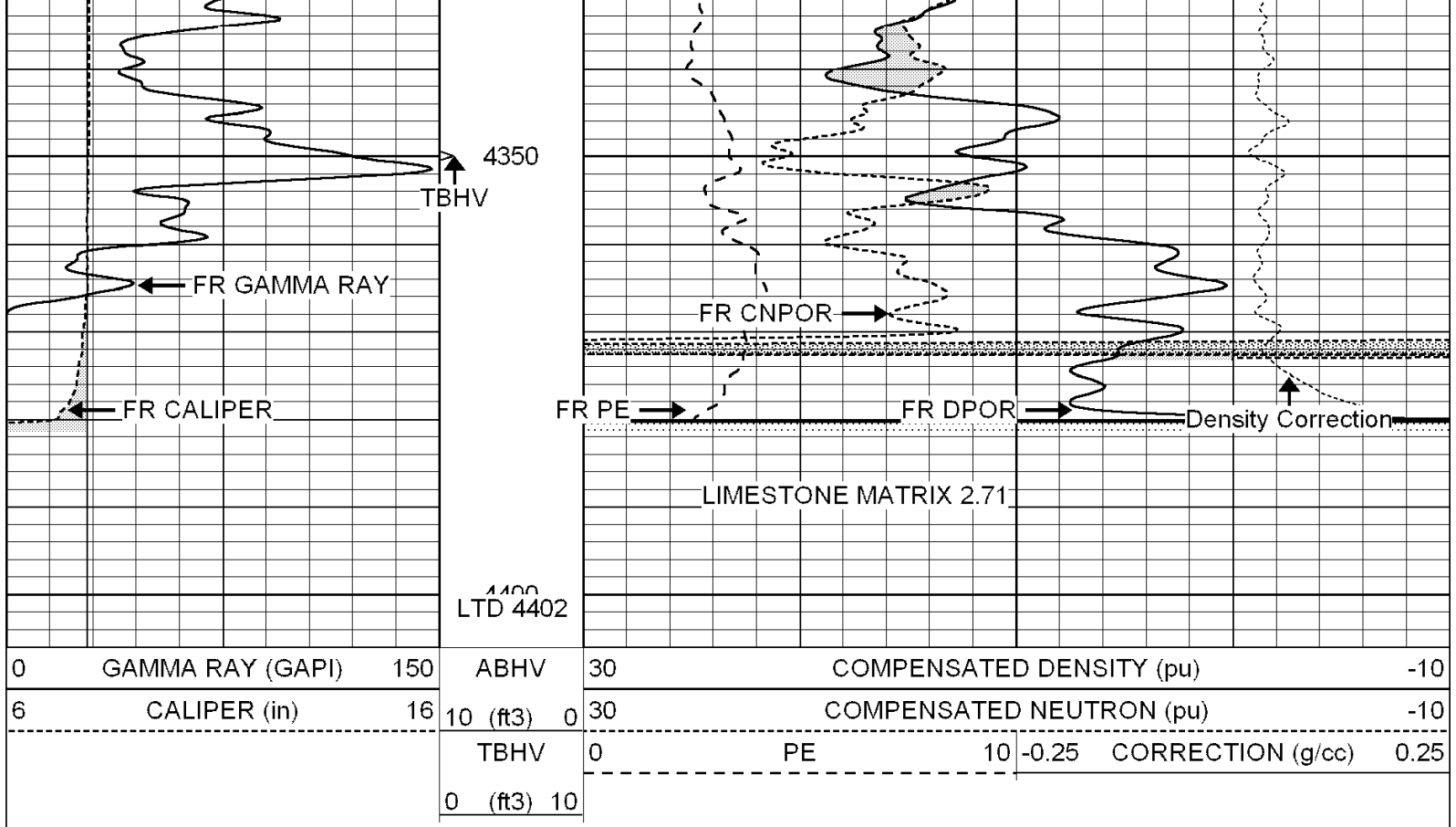
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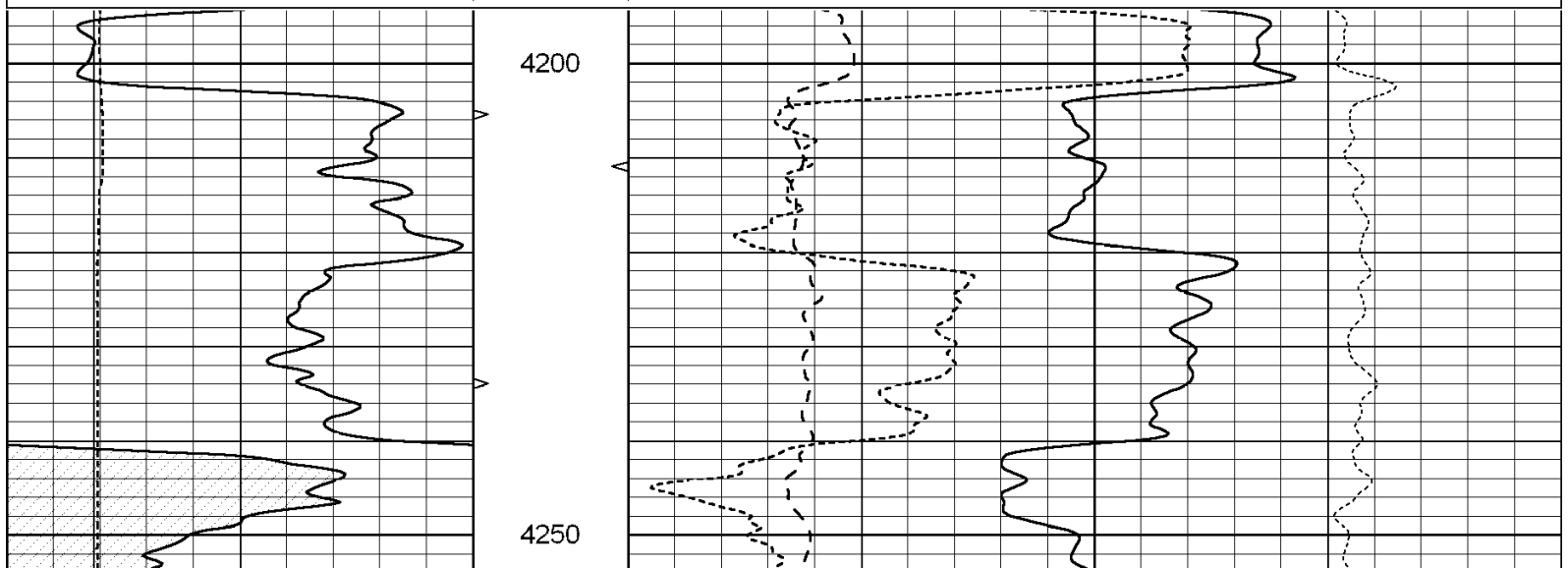


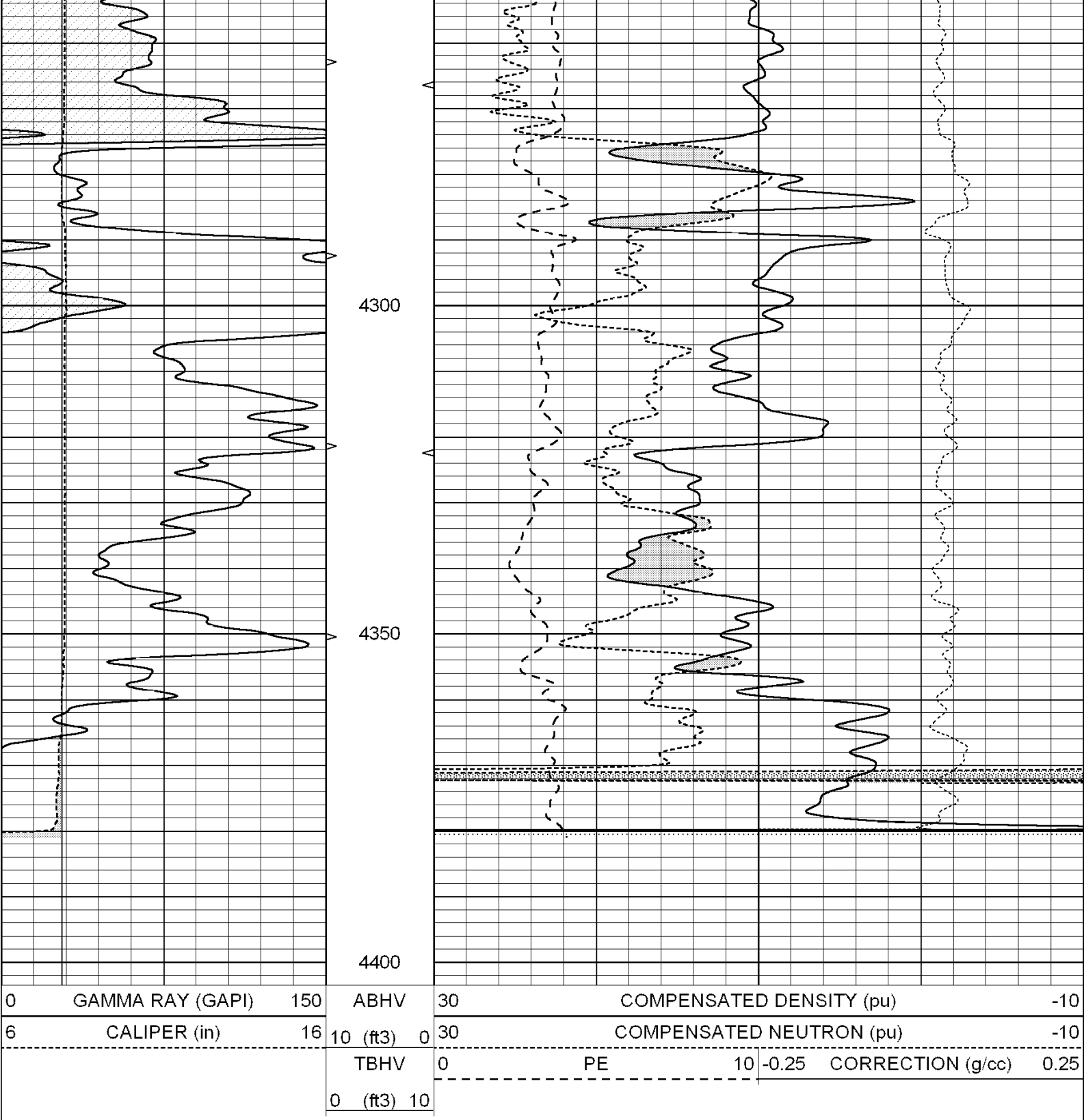
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 004631pe.db
 Dataset Pathname: pass4.2
 Presentation Format: ldt_neu
 Dataset Creation: Tue Nov 24 19:49:21 2009 by Calc Open-Cased 060407
 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)	
			TBHV	0	PE	10	-0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10			





Calibration Report						
Database File:		004631pe.db				
Dataset Pathname:		pass5				
Dataset Creation:		Tue Nov 24 17:15:55 2009 by Log Open-Cased 060407				
Dual Induction Calibration Report						
Serial-Model:		DIL3-GEAR				
Performed:		Thu Nov 19 00:38:00 2009				
Readings			References		Results	
Loop:	Air	Loop	Air	Loop	m	b

Deep	0.011	0.656	V	0.000	400.000	mmho-m	640.000	0.000
Medium	0.013	0.740	V	0.000	462.500	mmho-m	685.000	-10.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho-m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho-m	631.393	-4.555

Litho Density Calibration Report
Serial: 003N Model: PRB
Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper			
Low Ref	Readings	Reference	
High Ref	1.8	7.4	
	4.2	14.0	
	Gain: 2.8		Offset: 2.3

Compensated Neutron Calibration Report

Serial Number:	NEU_3I
Tool Model:	G

CALIBRATION			
Detector	Readings	Target	Normalization
Short Space	997.00 cps	1000.00 cps	1.0000
Long Space	986.00 cps	1000.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Thu Nov 19 02:39:49 2009	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	0.3600	GAPI/cps