SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

COMPENSATED DENSITY / NEUTRON PE LOG

Company BEREXCO, INC.
Well STAN #1-3
Field WILDCAT
County CLARK State KANSAS

Location: API # : 15-025-21479-0000
2202' FSL & 1944' FWL
SE - NW - NE - SW
SEC 3 TWP 30S RGE 22W

Other Services
DIL/MEL
SONIC

Permanent Datum GROUND LEVEL Elevation 2416
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2425
D.F. 2423
G.L. 2416

Date	7/2/09		
Run Number	ONE		
Depth Driller	5562		
Depth Logger	5561		
Bottom Logged Interval	5537		
Top Log Interval	4200		
Casing Driller	8 5/8"@659'		
Casing Logger	653		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 15,500PPM	
Density / Viscosity	9.4/57		
pH / Fluid Loss	11.0/16.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.60@80F		
Rmf @ Meas. Temp	1.95@80F		
Rmc @ Meas. Temp	3.12@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.60@130F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	3:45 A.M.		
Maximum Recorded Temperature	130F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM HICKMAN	G. KORALEGEDARA	

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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

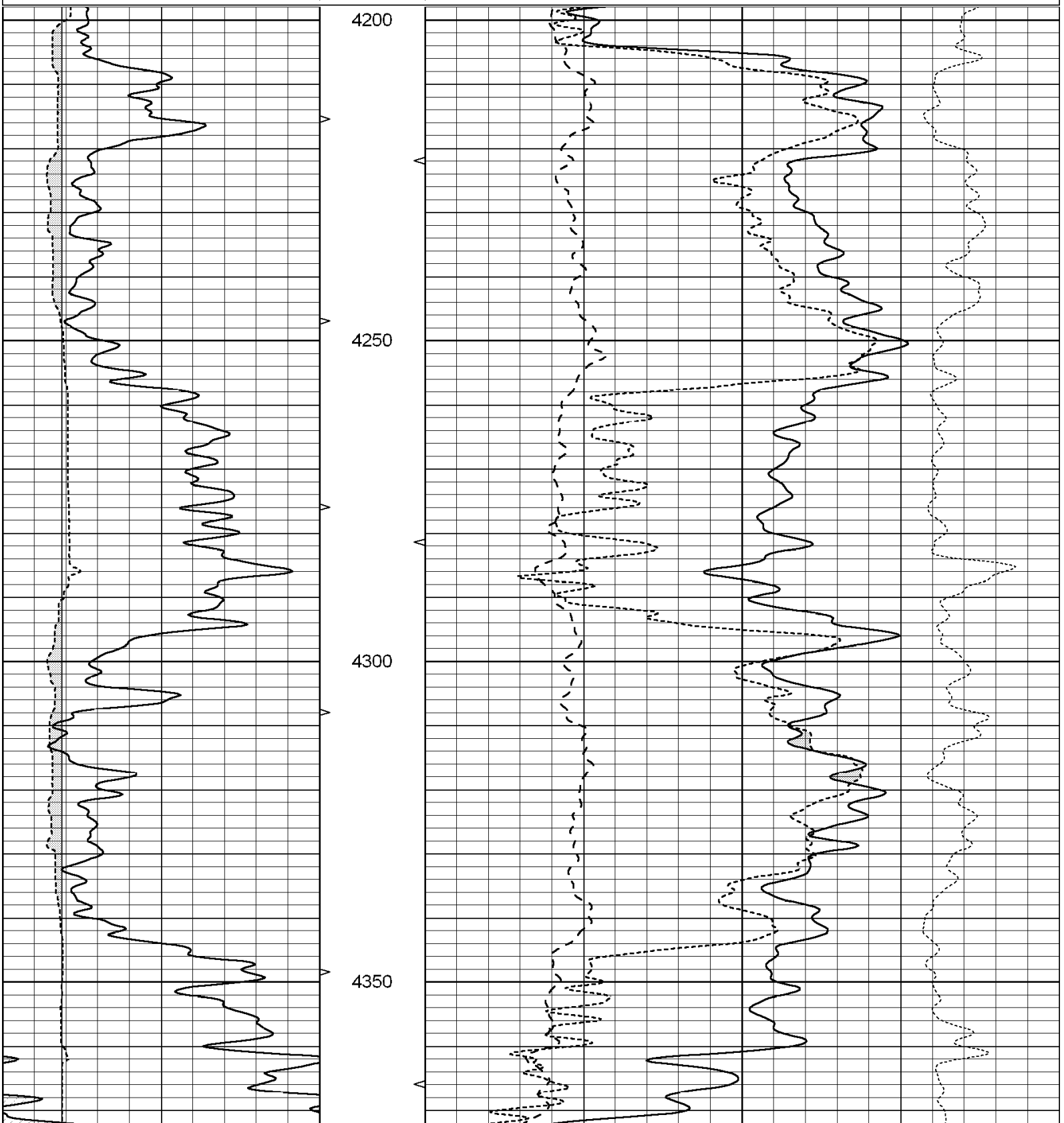
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
KINGSDOWN, KS. (JUNCTION OF HWY 54 & 94) 5S. TO RD. "B", (1 MILE S. OF FORD / CLARK COUNTY LINE) 2 1/2E., N. INTO 1/2 MILE @TANK BATTERY THEN BACK WEST

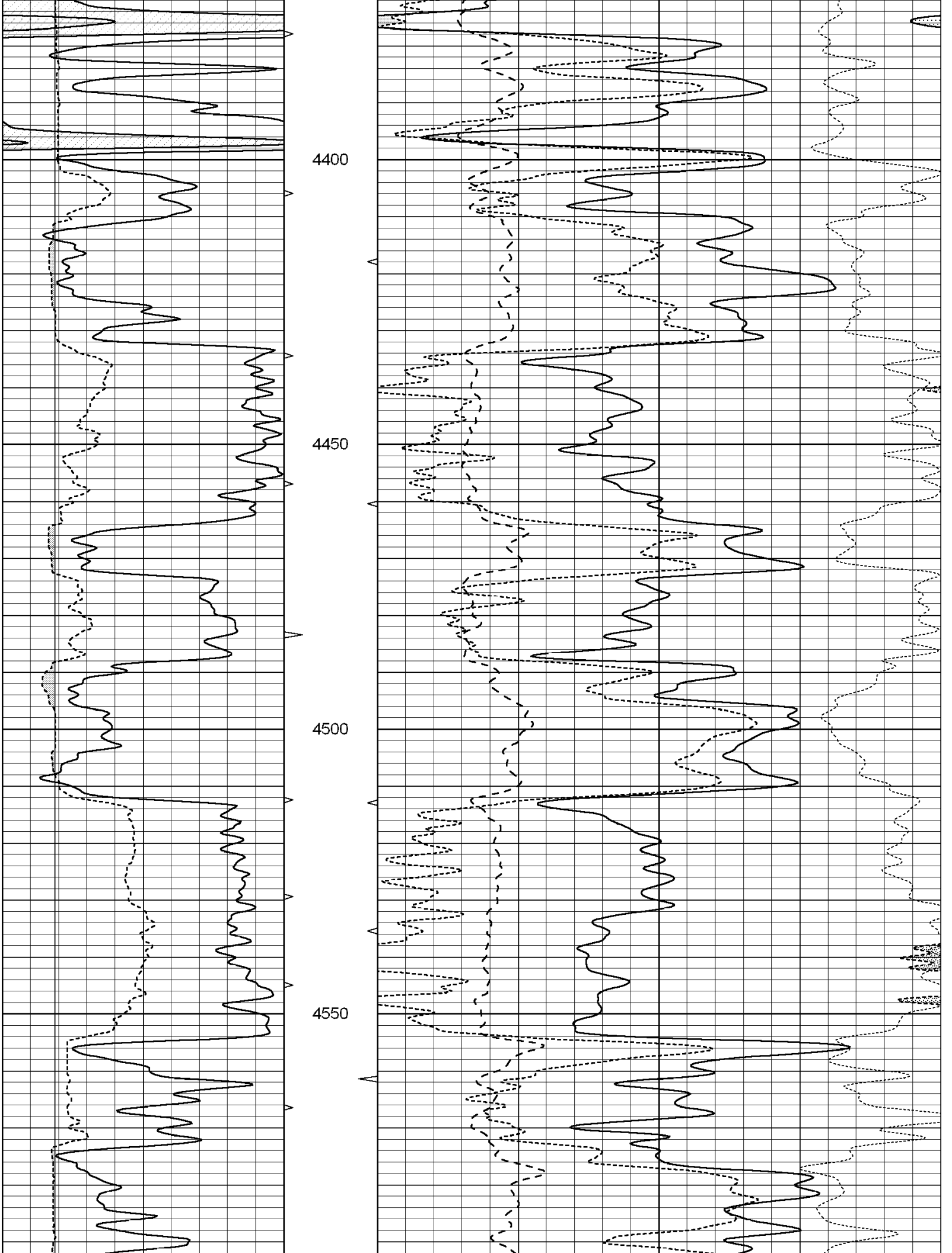
MAIN SECTION

SUPERIOR
Hays, Kansas
SUPERIOR WELL SERVICES

Database File: 003532pe.db
Dataset Pathname: pass5.2
Presentation Format: ldt_neu
Dataset Creation: Thu Jul 02 05:51:26 2009
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 CORRECTION (g/cc)	0.25
			0 (ft3) 10					

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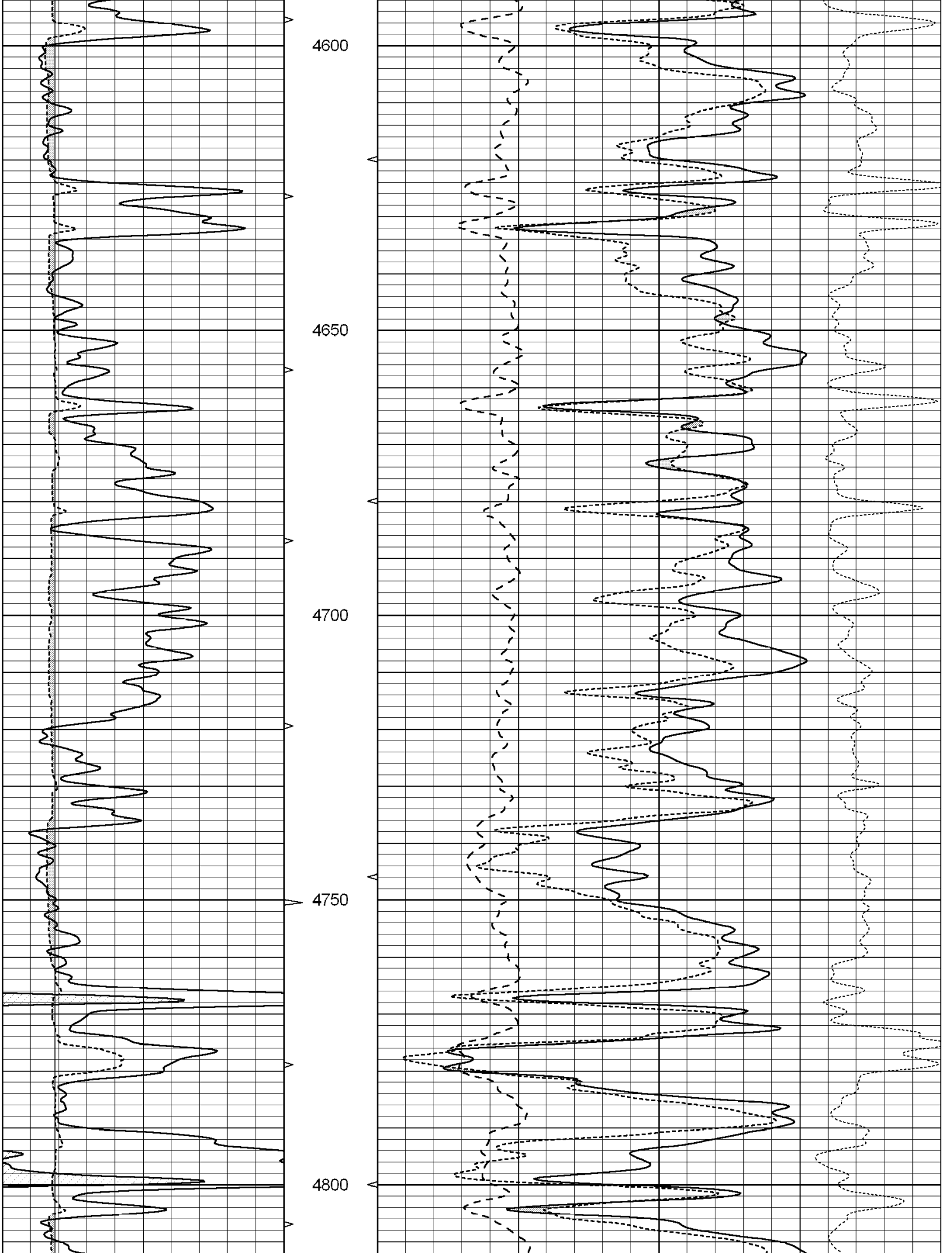
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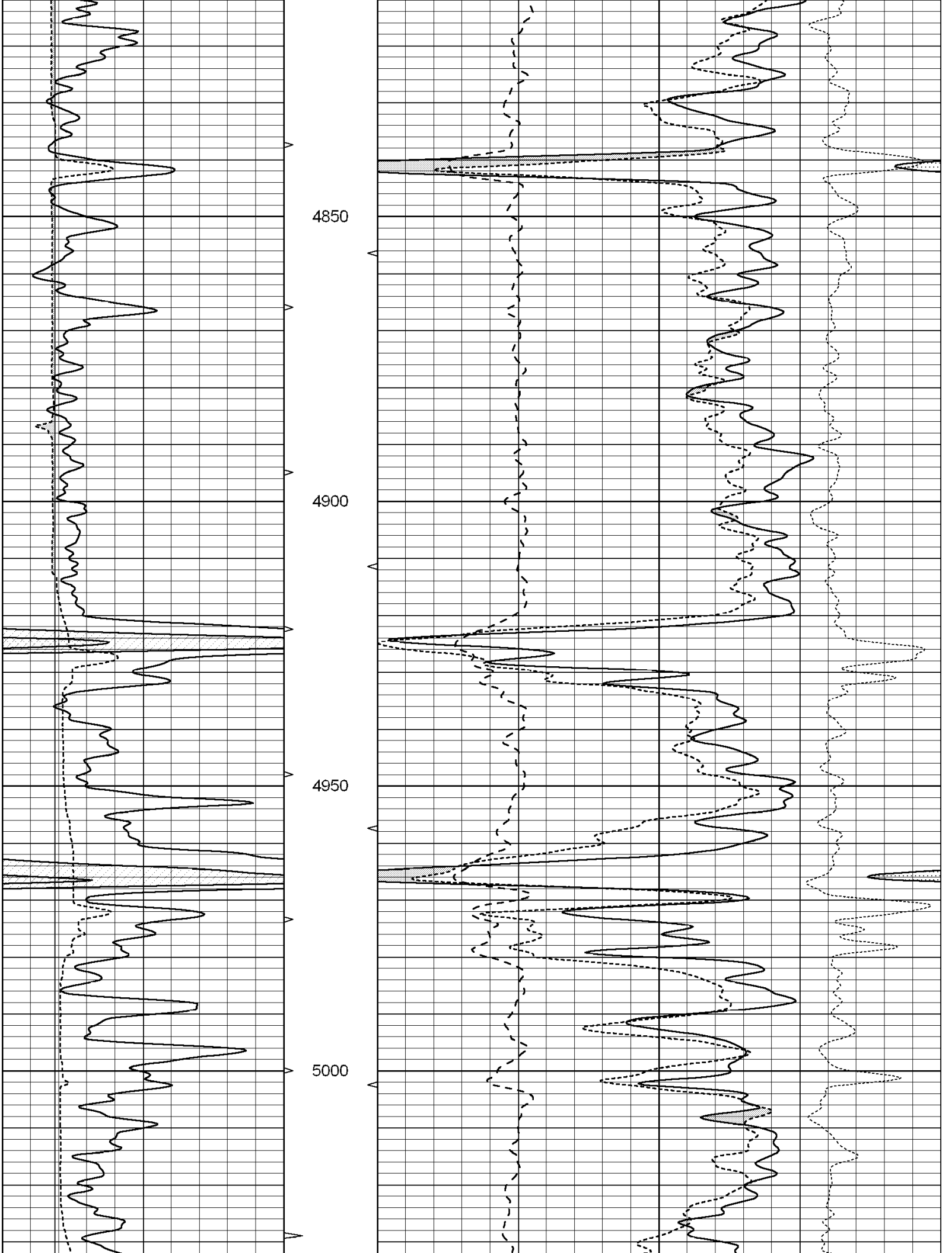
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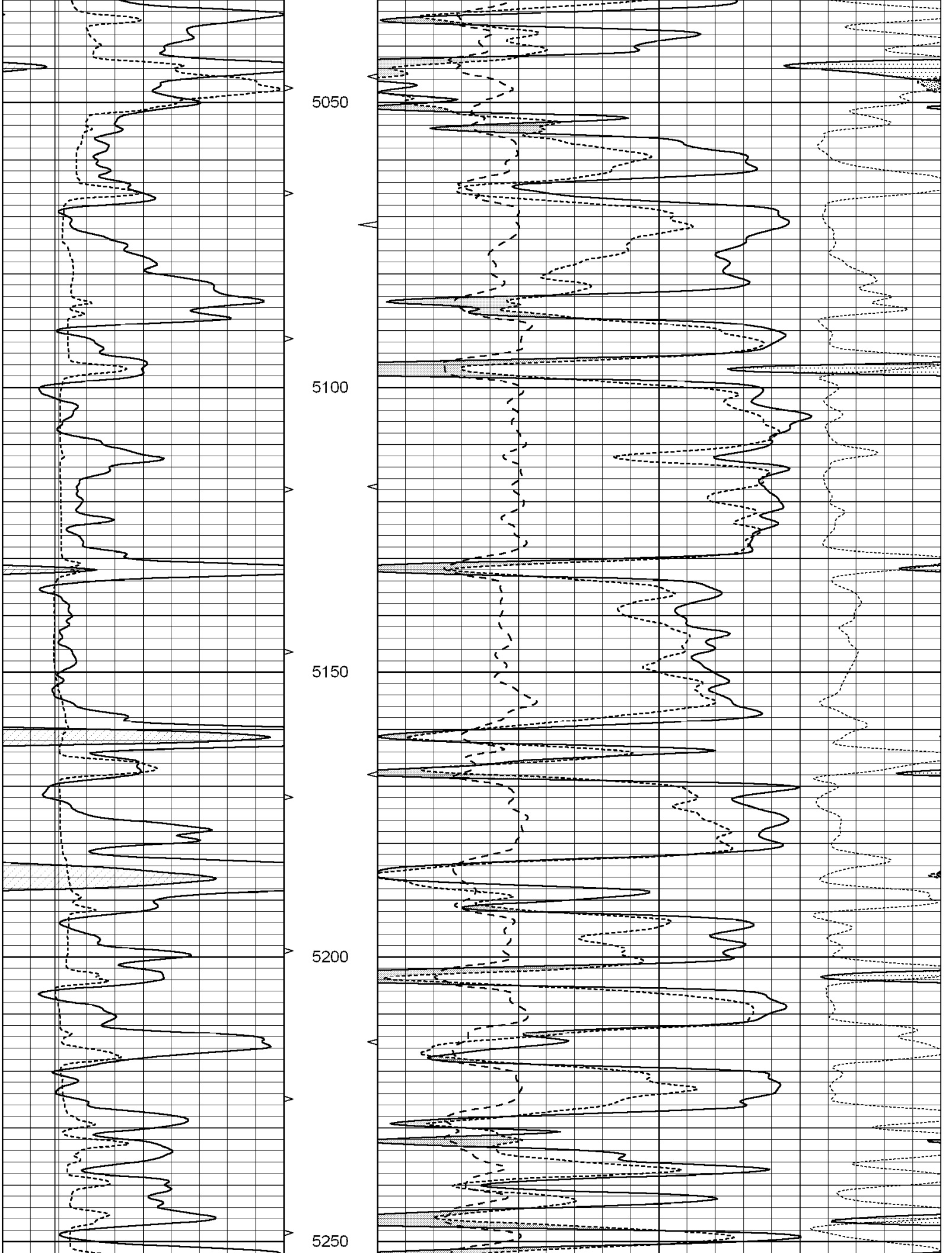
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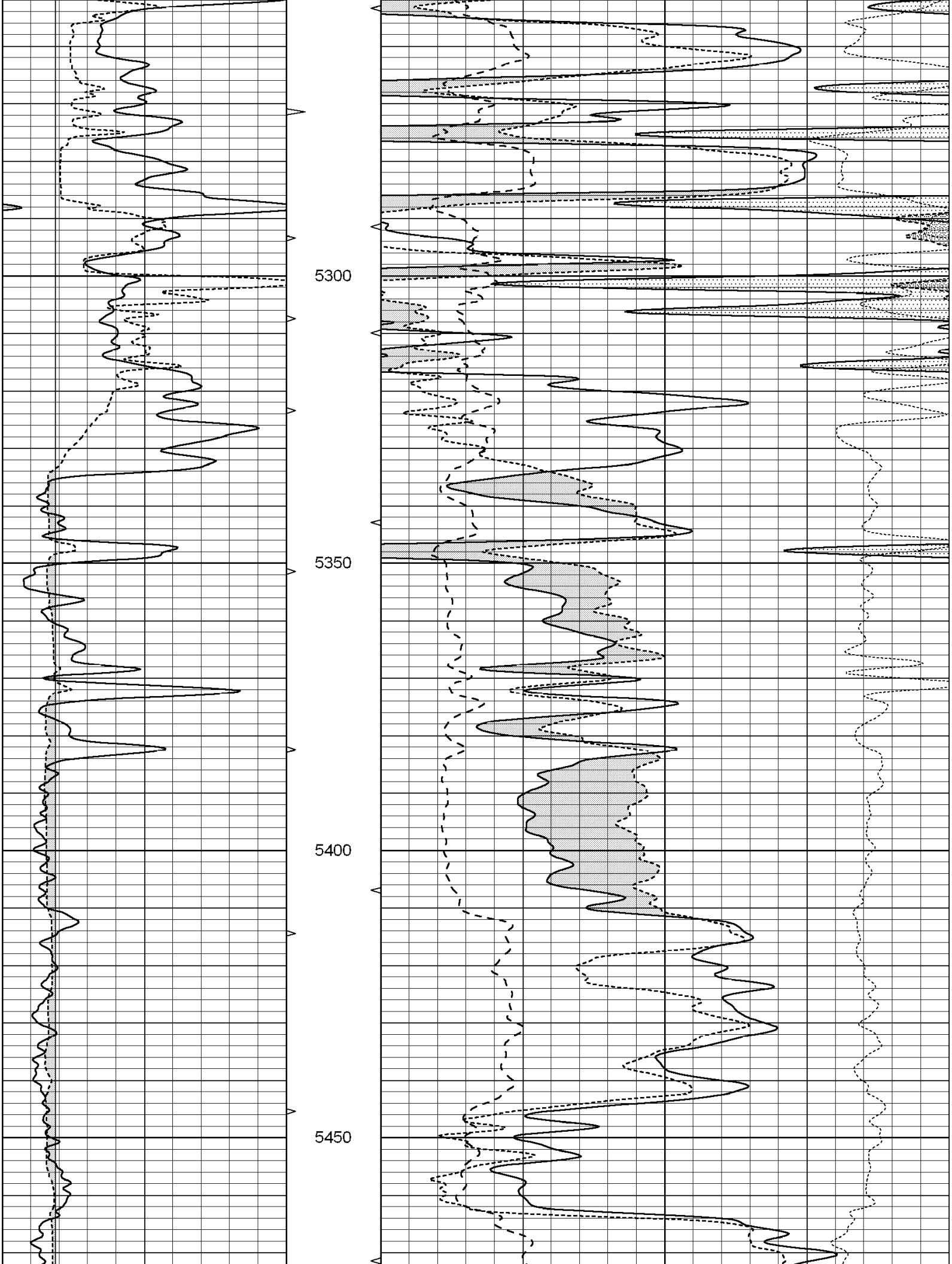
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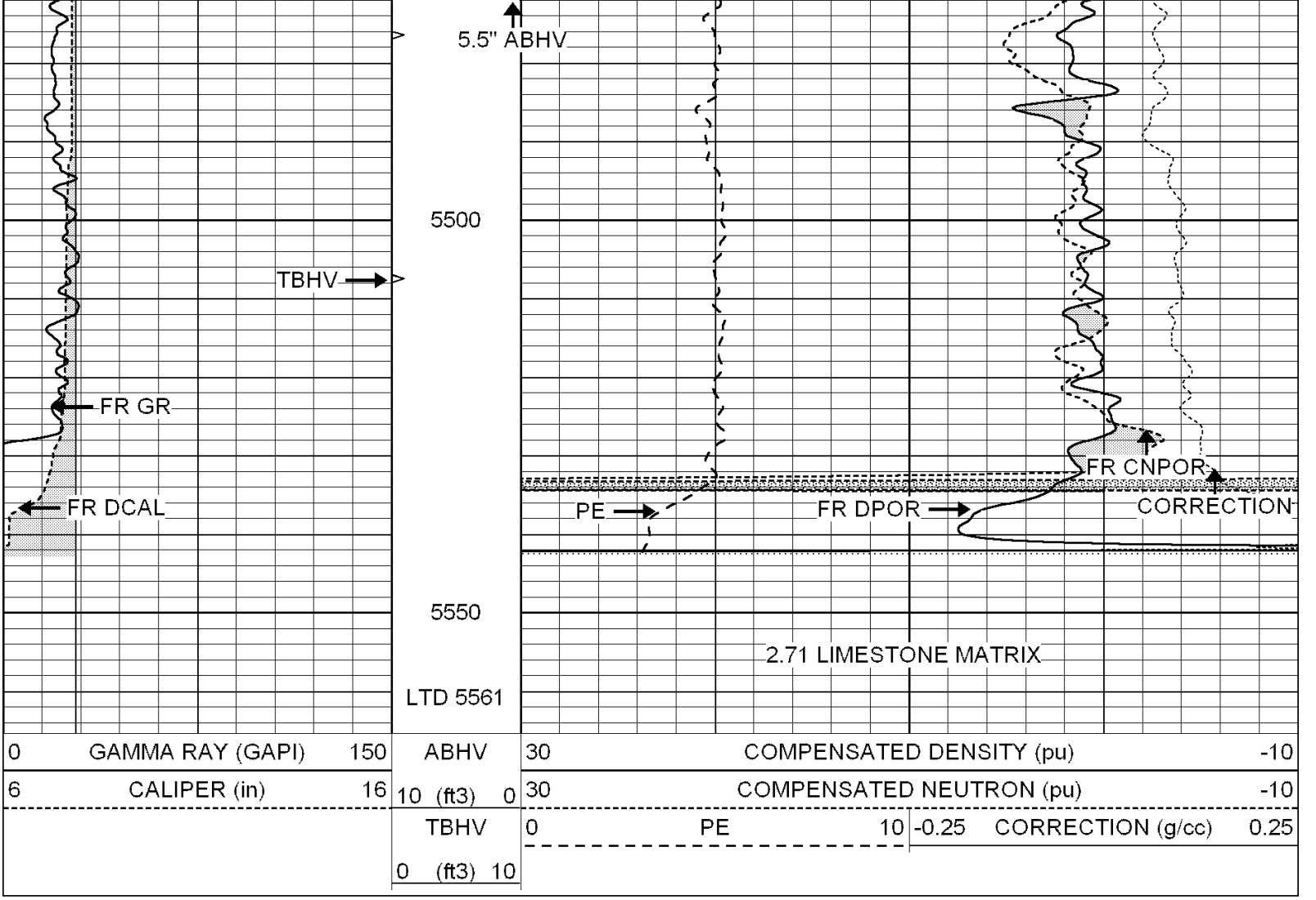
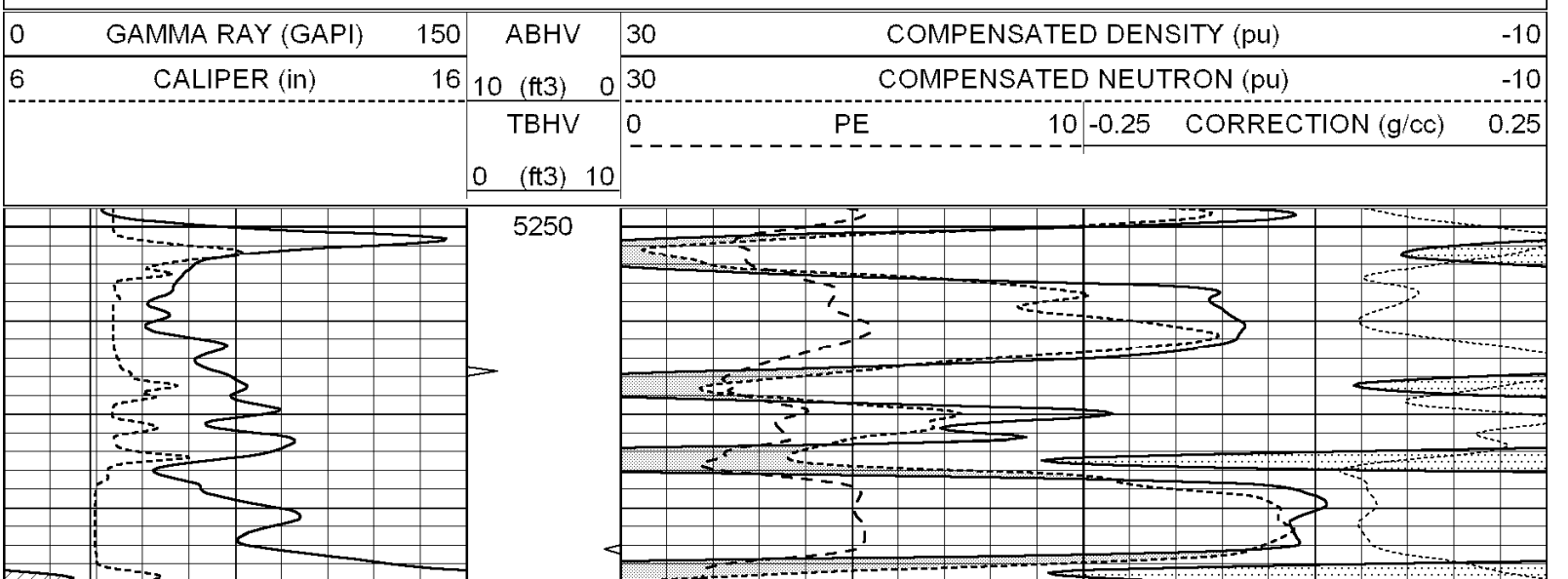


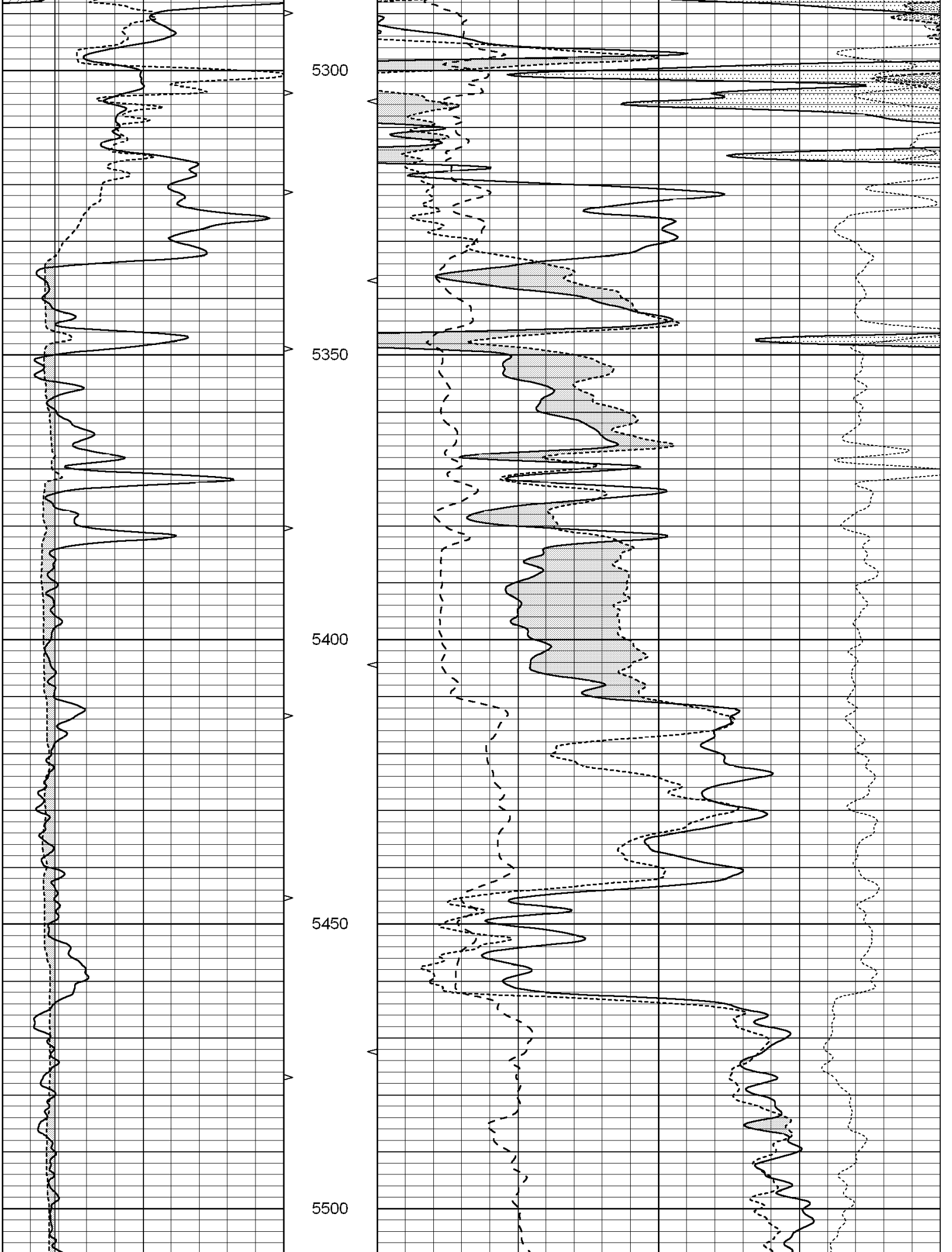
SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

REPEAT SECTION

Database File:	003532pe.db
Dataset Pathname:	pass2.7
Presentation Format:	ldt_neu
Dataset Creation:	Thu Jul 02 04:59:20 2009 by Calc Open-Cased 060407
Charted by:	Depth in Feet scaled 1:240

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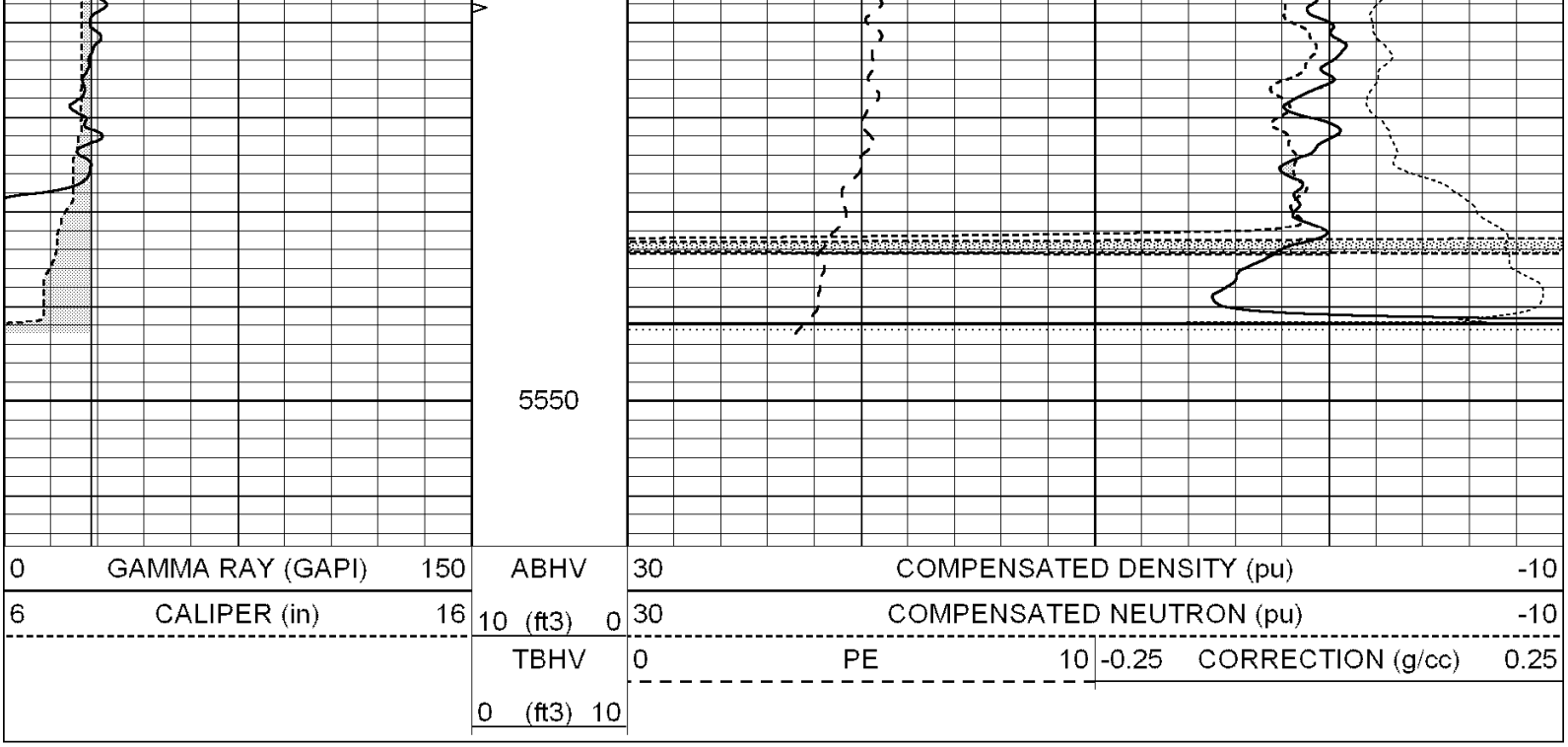

Calibration Report

Database File: 003532pe.db
Dataset Pathname: pass5.2
Dataset Creation: Thu Jul 02 05:51:26 2009

Dual Induction Calibration Report

Serial-Model: DIL2-GEAR
Performed: Thu Jul 02 03:59:19 2009

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.667	V	0.000	400.000	mmho-m	650.000	7.000
Medium	-0.003	0.739	V	0.000	462.500	mmho-m	720.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.658	V	0.000	400.000	mmho-m	609.010	-0.700
Medium	0.015	0.761	V	0.000	462.500	mmho-m	620.392	-9.326

Litho Density Calibration Report

Serial: 003N Model: PRB
Performed Mon Jun 08 10:53:05 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2028.8	12047.1	4181.3	13199.9	cps
Window 2	1822.8	9337.8	3431.4	10000.3	cps
Window 3	1564.8	5811.2	2442.8	6095.5	cps
Window 4	469.1	474.6	468.9	469.9	cps
Long Space	0.0	7514.9	1608.6	8177.4	cps
Short Space	1.9	2397.2	1539.5	2522.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio	: 0.549
Spine Angle	: 74.0	Spine Slope	: 3.481	Spine Intercept	: -18.2

Caliper

	Readings	Reference
Low Ref	2.1	6.2
High Ref	4.4	14.0
	Gain: 3.3	Offset: -0.7

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: GR3
Tool Model: OPEN
Performed: Thu Jul 02 02:44:41 2009

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
Calibrator Reading: 186.0 cps

Sensitivity: 0.4000 GAPI/cps