NABORS
COMPLETION & PRODUCTION SERVICES CO.

COMPENSATED DENSITY / NEUTRON LOG

Company VINCENT OIL CORPORATION
Well MARFAM #2-32
Field FAGER EAST
County FORD State KANSAS

Location: API # : 15-057-20933-0000
421' FSL & 371' FWL
SEC 32 TWP 29S RGE 24W

Other Services
DIL

Elevation
K.B. 2574
D.F. 2572
G.L. 2564

Permanent Datum GROUND LEVEL Elevation 2564
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Company VINCENT OIL CORPORATION
Well MARFAM #2-32
Field FAGER EAST
County FORD
State KANSAS

Date	7/15/14		
Run Number	ONE		
Depth Driller	5430		
Depth Logger	5419		
Bottom Logged Interval	5395		
Top Log Interval	4300		
Casing Driller	8 5/8 @ 644		
Casing Logger	644		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/57	CHLORIDES 12800 PPM	
pH / Fluid Loss	10.5/13.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.30 @ 90F		
Rmf @ Meas. Temp	.22 @ 90F		
Rmc @ Meas. Temp	.36 @ 90F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.20 @ 129F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	TOM DUDGEON		

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Comments

NABORS COMPLETION & PRODUCTION SERVICES CO.
785 (628 - 6395)
THANK YOU FOR YOUR BUSINESS
DIRECTIONS : DODGE CITY, KS. - SOUTH TO YUCCA RD. - 2 EAST TO 113 RD.
1 SOUTH - EAST INTO

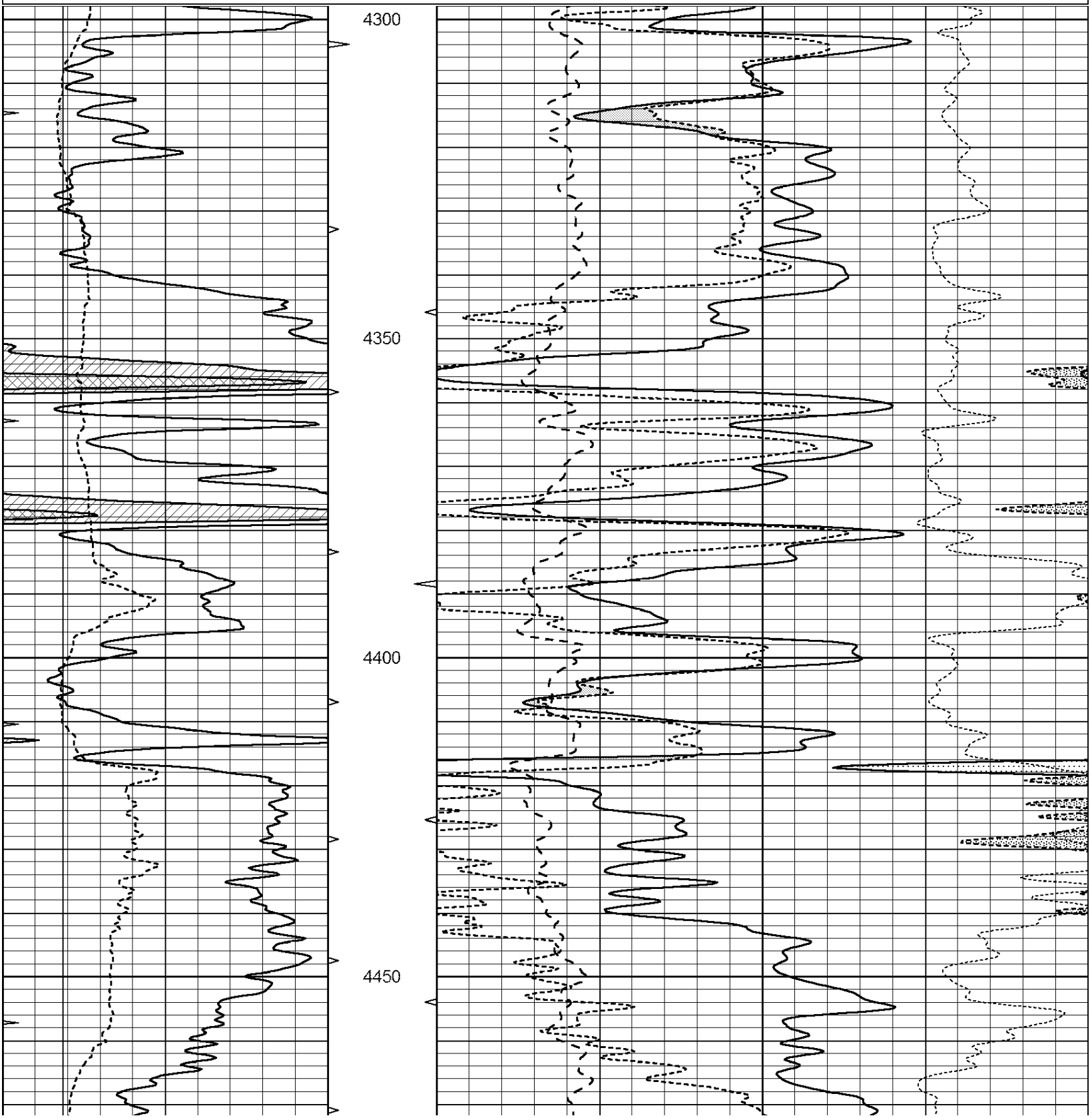
MAIN SECTION

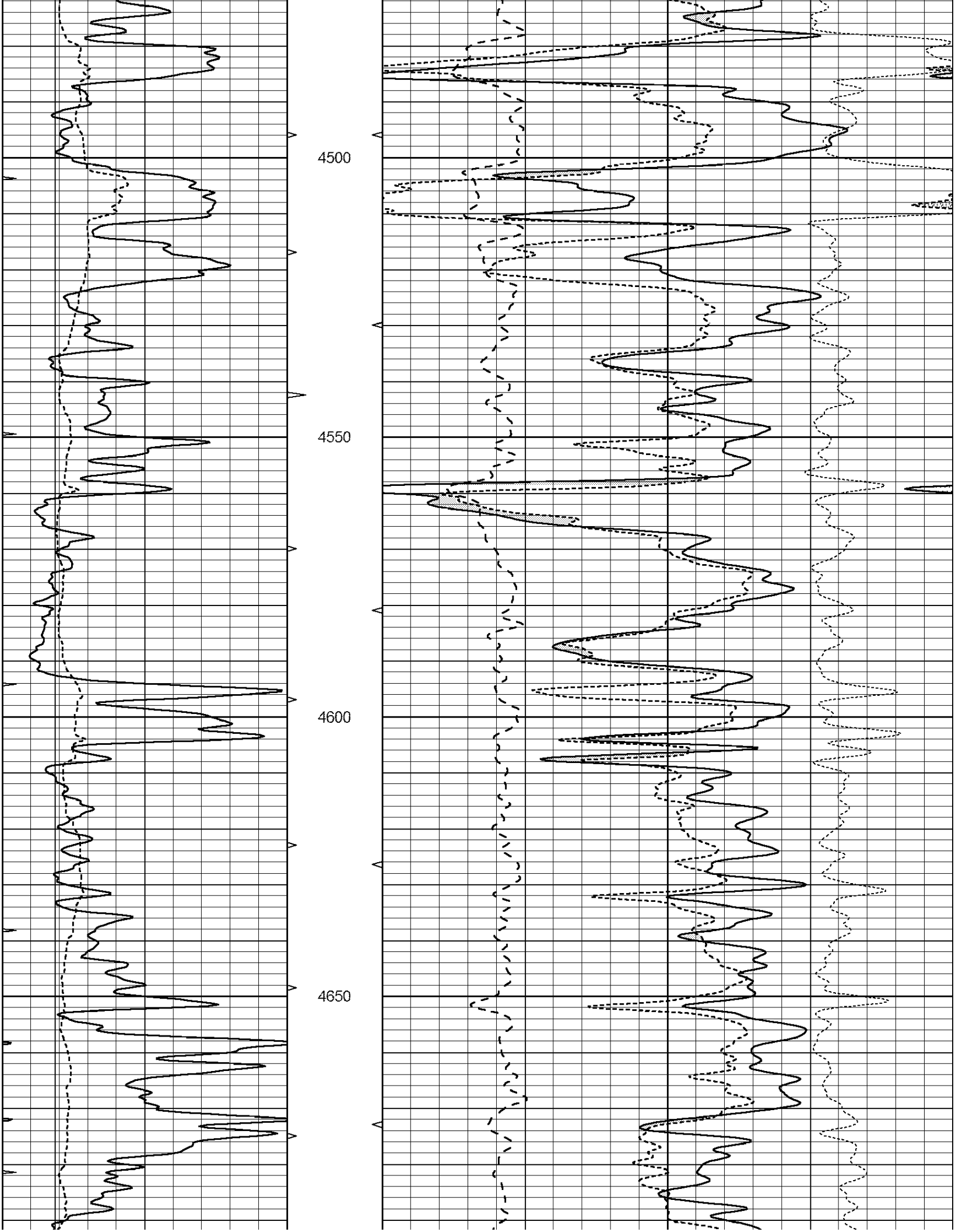
NABORS COMPLETION & PRODUCTION

& PRODUCTION
SERVICES CO.

Database File: 24706pe.db
Dataset Pathname: pass4.1
Presentation Format: _ldt_neu
Dataset Creation: Tue Jul 15 21:08:13 2014 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	PE 10	-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10				

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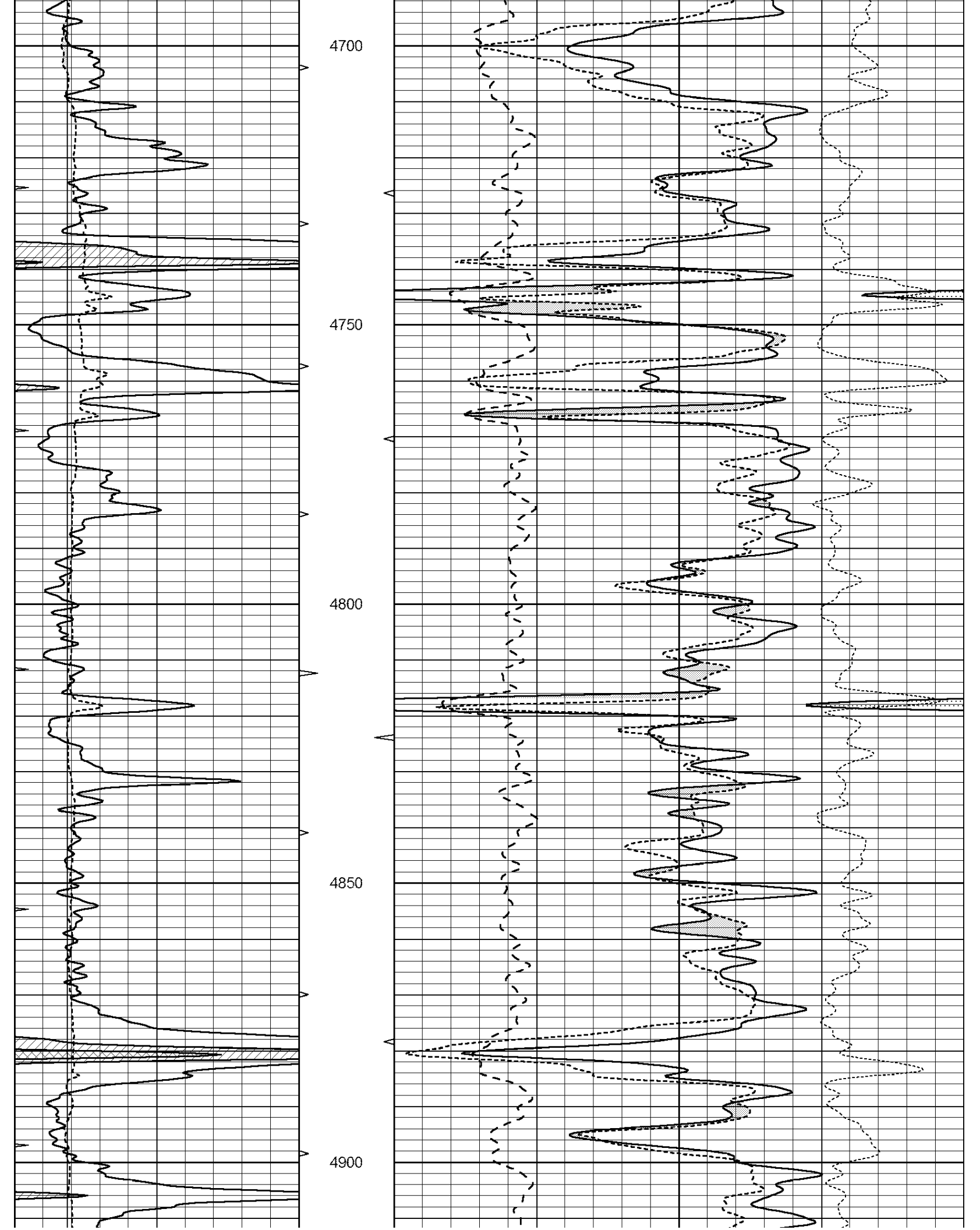
4550
4600
4650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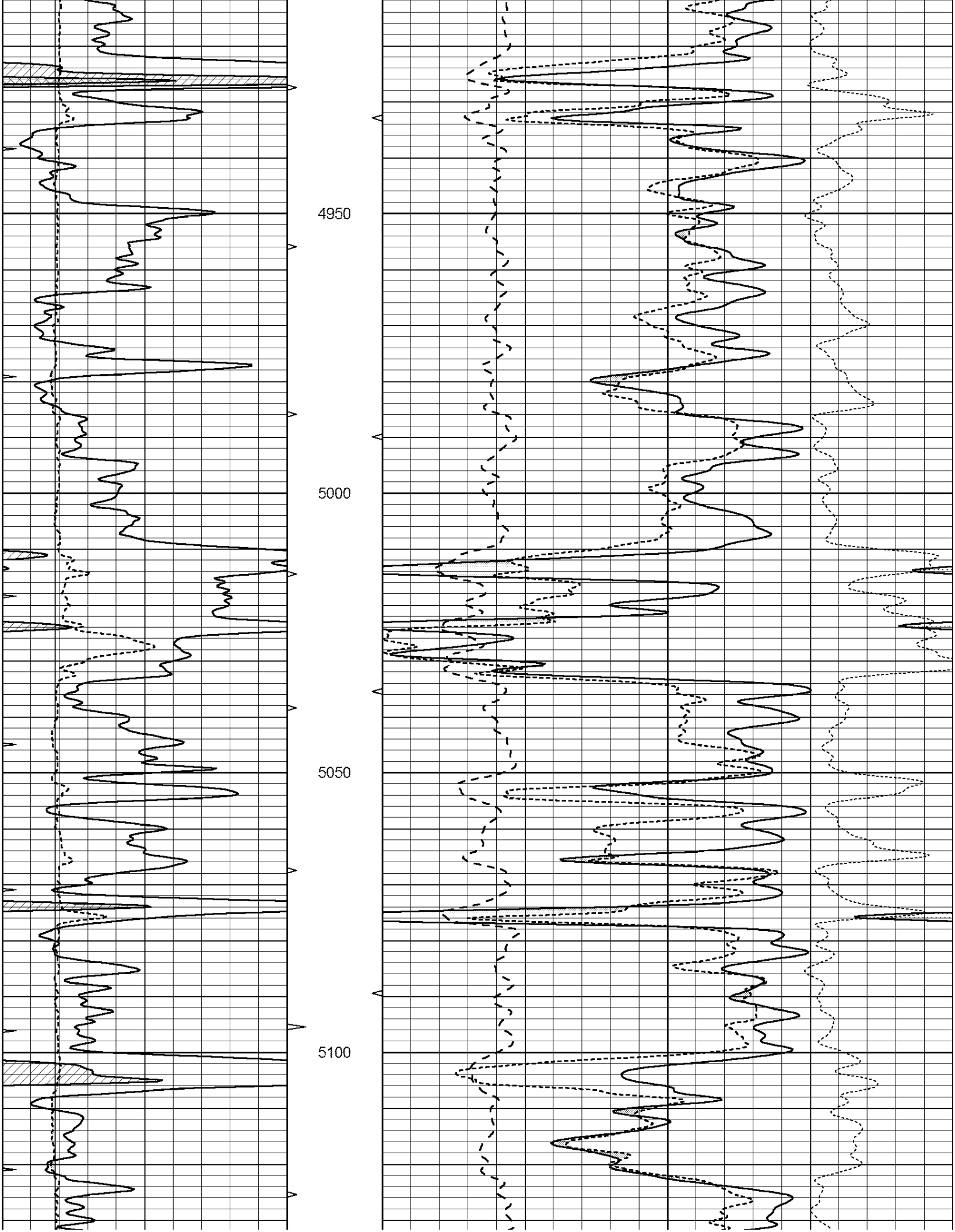
4800
4850
4900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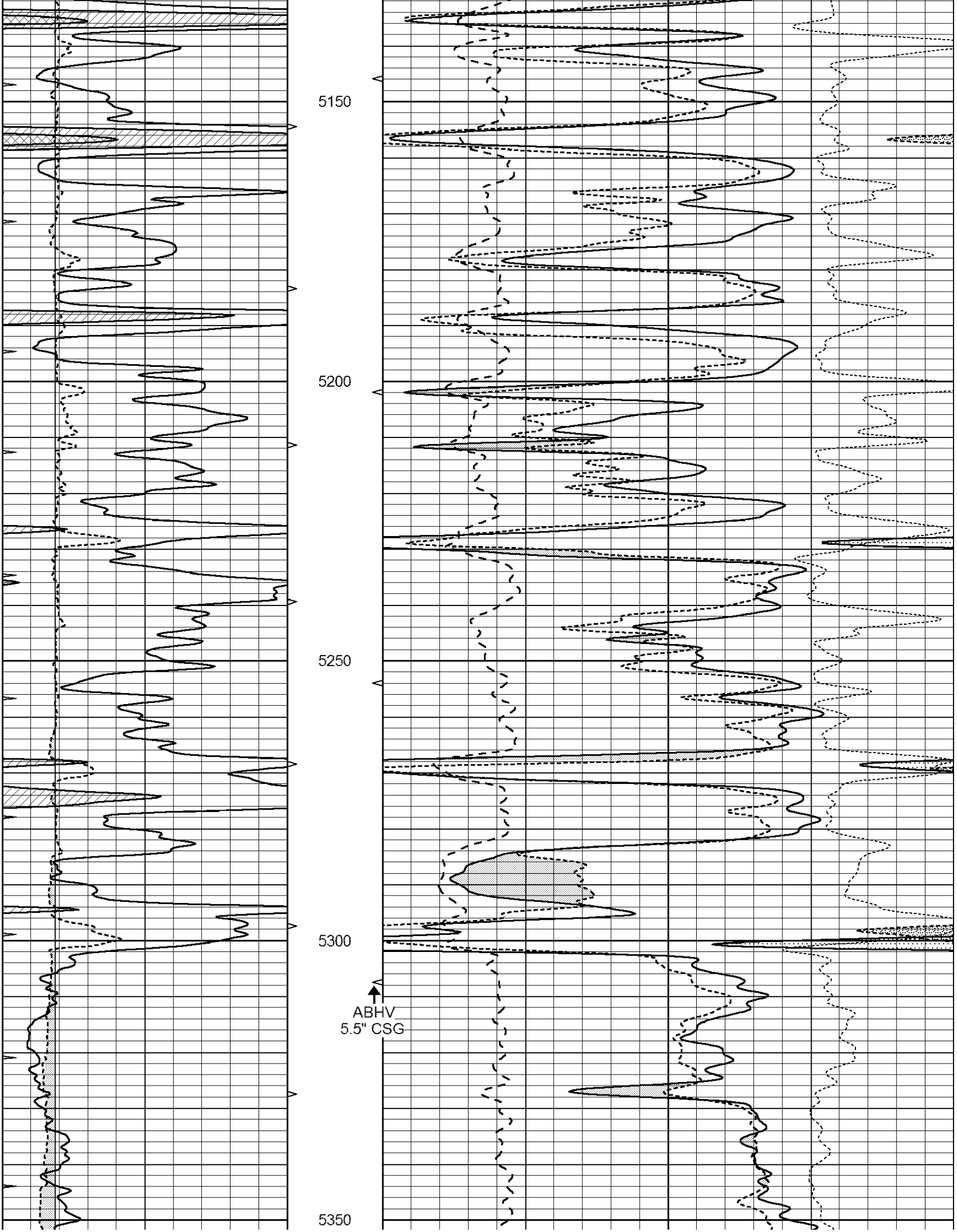
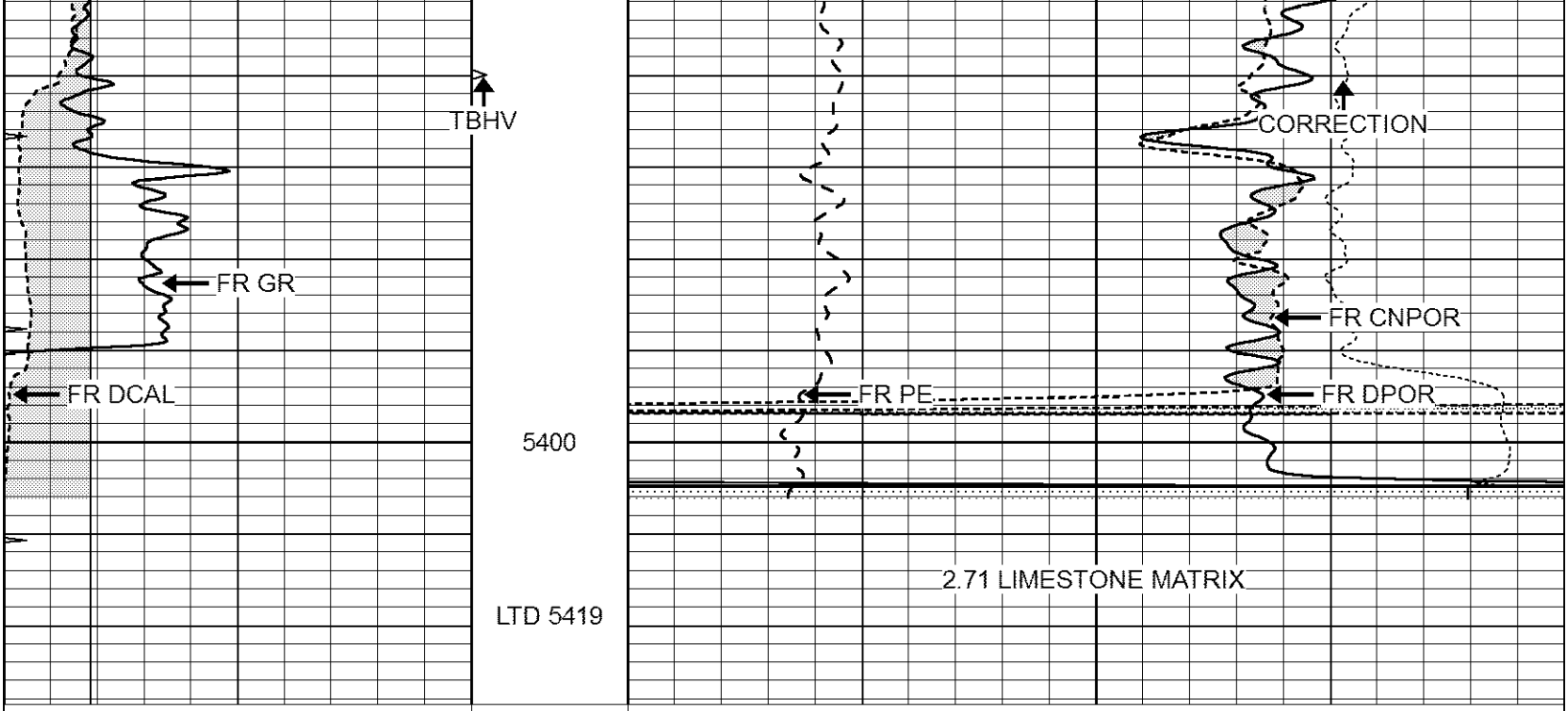
5000
5050
5100


5150
5200
5250
5300
5350
ABHV
5.5" CSG



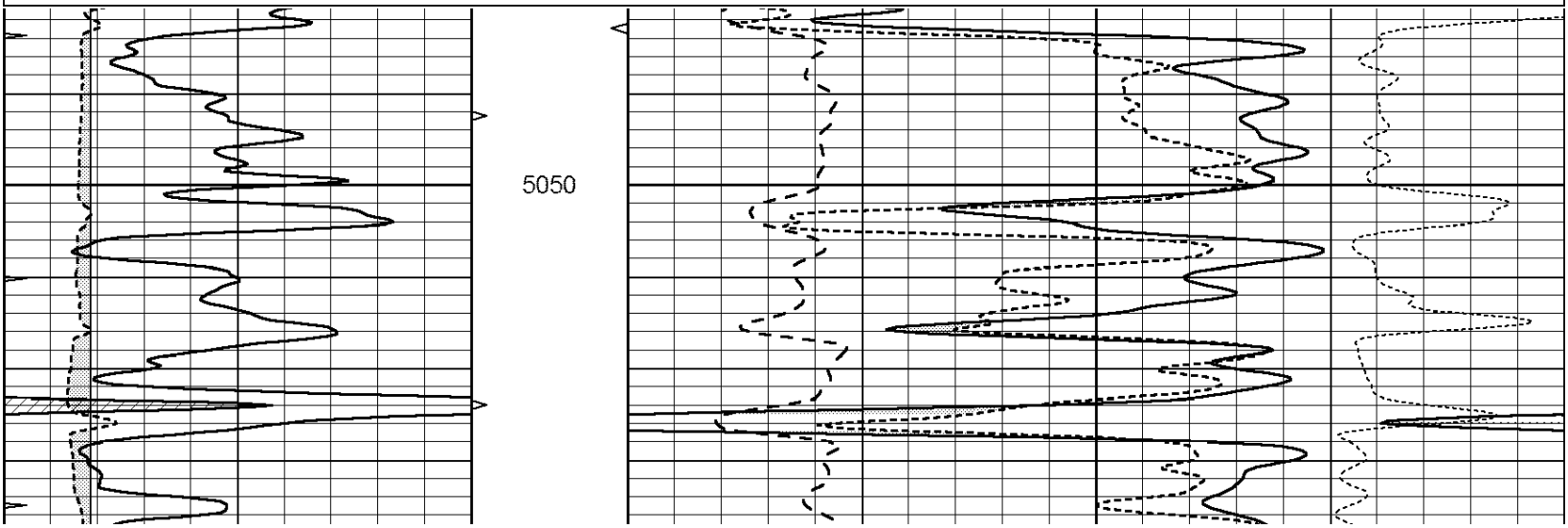
0	GAMMA RAY (GAPI)	150	ABHV		30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	TBHV		0	PE	10 -0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10				

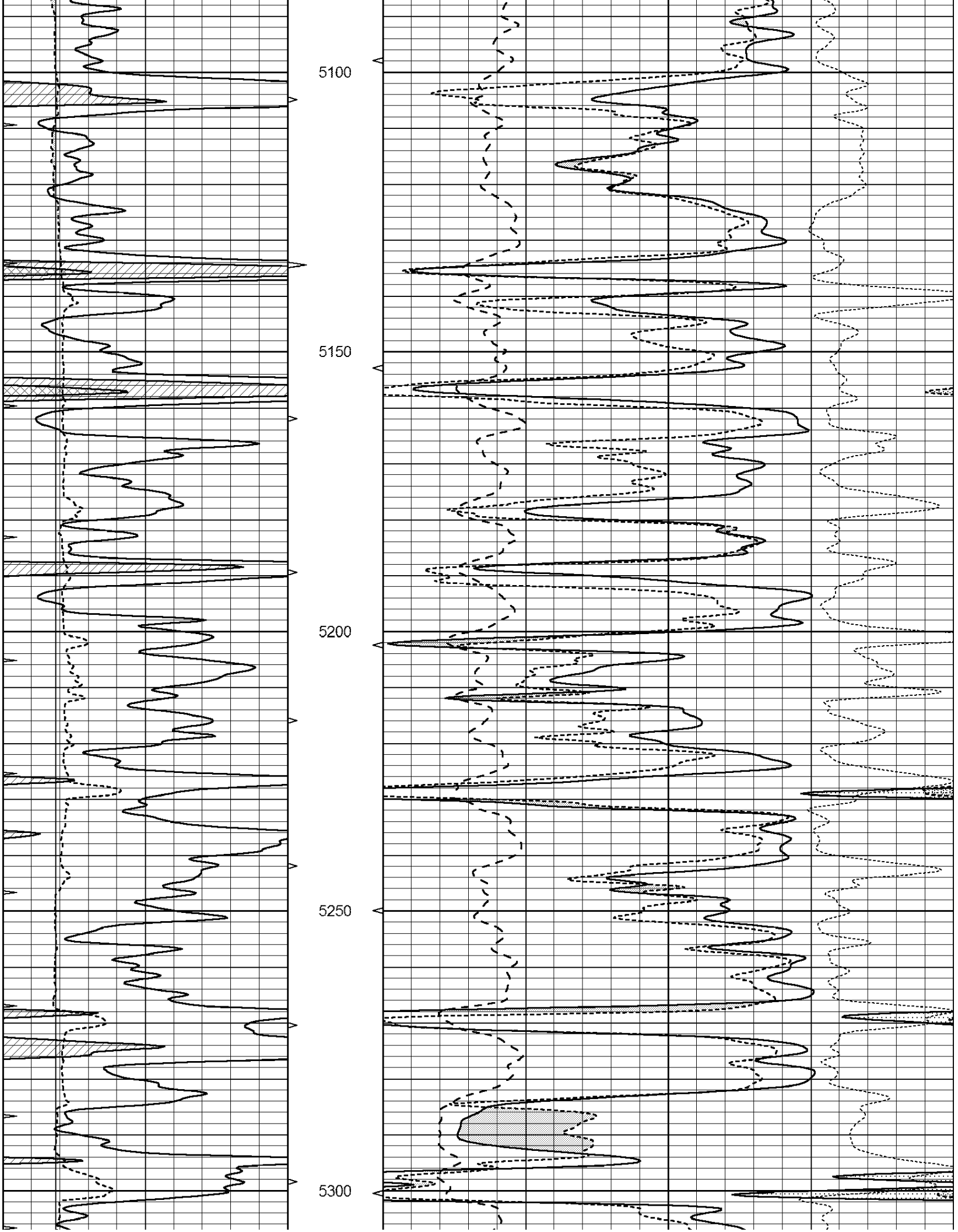
NABORS
COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File: 24706pe.db
Dataset Pathname: pass3.1
Presentation Format: _ldt_neu
Dataset Creation: Tue Jul 15 21:10:33 2014 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	PE	10 -0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10				

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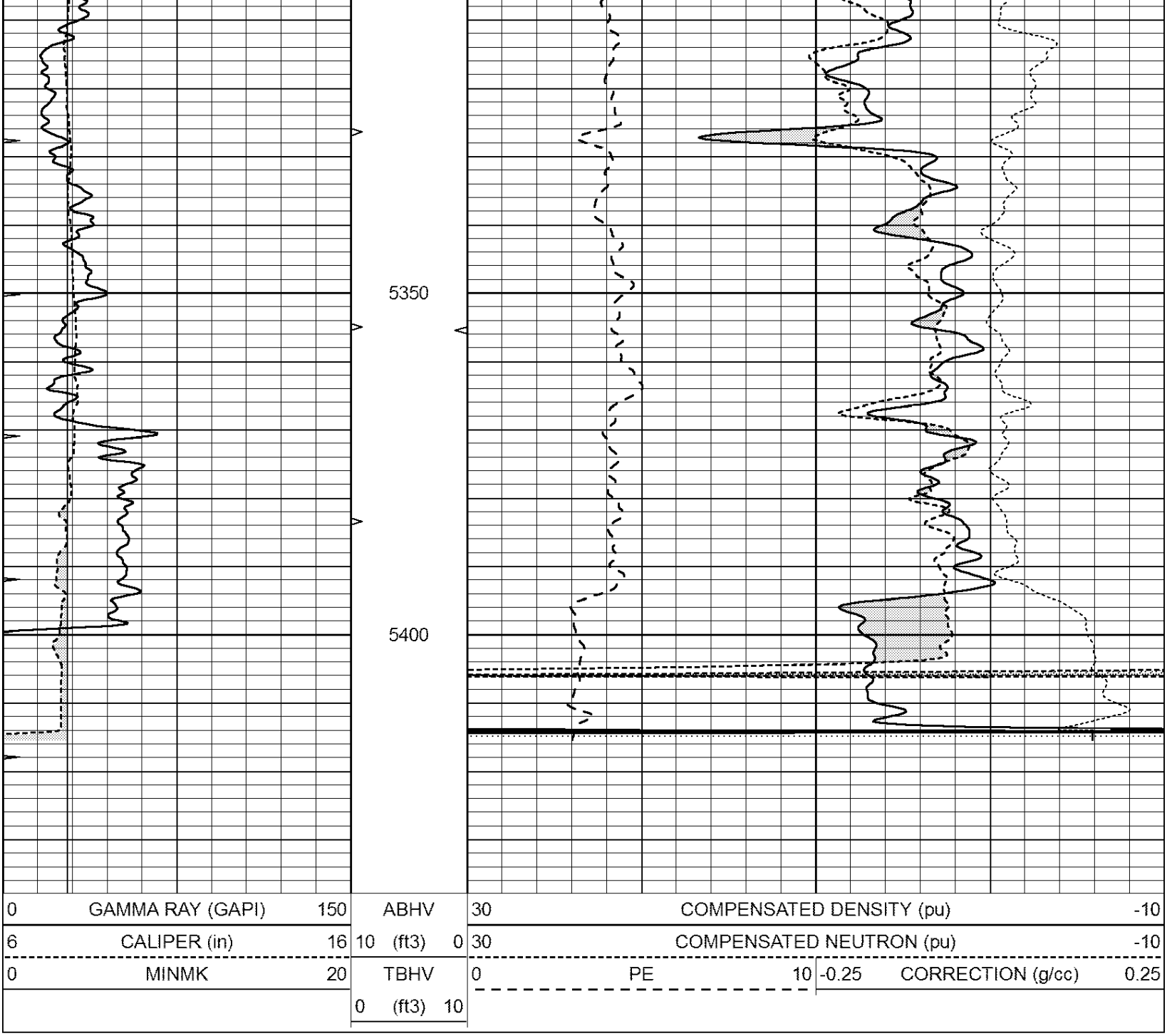
5150
5200
5250
5300



Calibration Report

Database File: 24706pe.db
Dataset Pathname: pass3.1
Dataset Creation: Tue Jul 15 21:10:33 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Thu Aug 29 12:01:20 2013
Downhole Cal Performed:	Sat Jan 19 19:51:38 2013
After Survey Verification Performed:	Sat Jan 19 19:51:38 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	500.000	20.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	520.000	-24.000

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report
Serial: 001 Model: PRB

Master Calibration — Performed Mon Jun 09 14:46:21 2014

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1833.3	8239.1	3179.3	9365.4	cps
Window 2	1708.4	7189.1	2862.8	8058.6	cps
Window 3	1391.6	4030.0	1937.3	4384.2	cps
Window 4	414.3	417.6	417.2	416.2	cps
Long Space	0.0	5480.6	1154.3	6350.2	cps
Short Space	3.1	1831.8	1190.6	2030.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle	: 44.5	Rib Slope	: 0.984	Density/Spine Ratio	: 0.544
Spine Angle	: 74.5	Spine Slope	: 3.615	Spine Intercept	: -18.6

Before Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps

Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 080621
Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 080328
Tool Model: Probe1
Performed: Sat Nov 19 09:15:32 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps