



**SUPERIOR
Hays,
Kansas**

COMPENSATED DENSITY / NEUTRON LOG

Company CASTELLI EXPLORATION, INC.
Well GREGG #1-18
Field SHIMER
County COMANCHE
State KANSAS

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Location: API # : 15-033-21559-0000
1980'FSL & 660'FWL
NW - SW
SEC 18 TWP 33S RGE 16W
Permanent Datum GROUND LEVEL Elevation 1867
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
Elevation
K.B. 1876
D.F. 1874
G.L. 1867

Date	06/16/2009		
Run Number	CNE		
Depth Driller	5506		
Depth Logger	5474		
Bottom Logged Interval	5450		
Top Log Interval	3800		
Casing Driller	8 5/8 @ 1204'		
Casing Logger	1205'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 44	CHLORIDES 6000PPM	
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.20 @ 74F		
Rmf @ Meas. Temp	0.90 @ 74F		
Rmc @ Meas. Temp	1.44 @ 74F		
Source of Rmf / Rmc	CAL/CAL		
Rm @ BHT	0.69 @ 129F		
Time Circulation Stopped	8 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	680		
Location	HAYS, KS		
Recorded By	JEFF GRONEWEG		
Witnessed By	TOM CASTELLI	RICK POPP	

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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: COLDWATER, KS - EAST ON HWY 160 TO MM 193 (RD 22) - SOUTH 4 MILES
TO STOP SIGN - EAST 2 MILES TO CURVE - SOUTH PASSED 2 CATTLE GUARDS
WEST INTO JUST BEFORE THIRD CATTLE GUARD

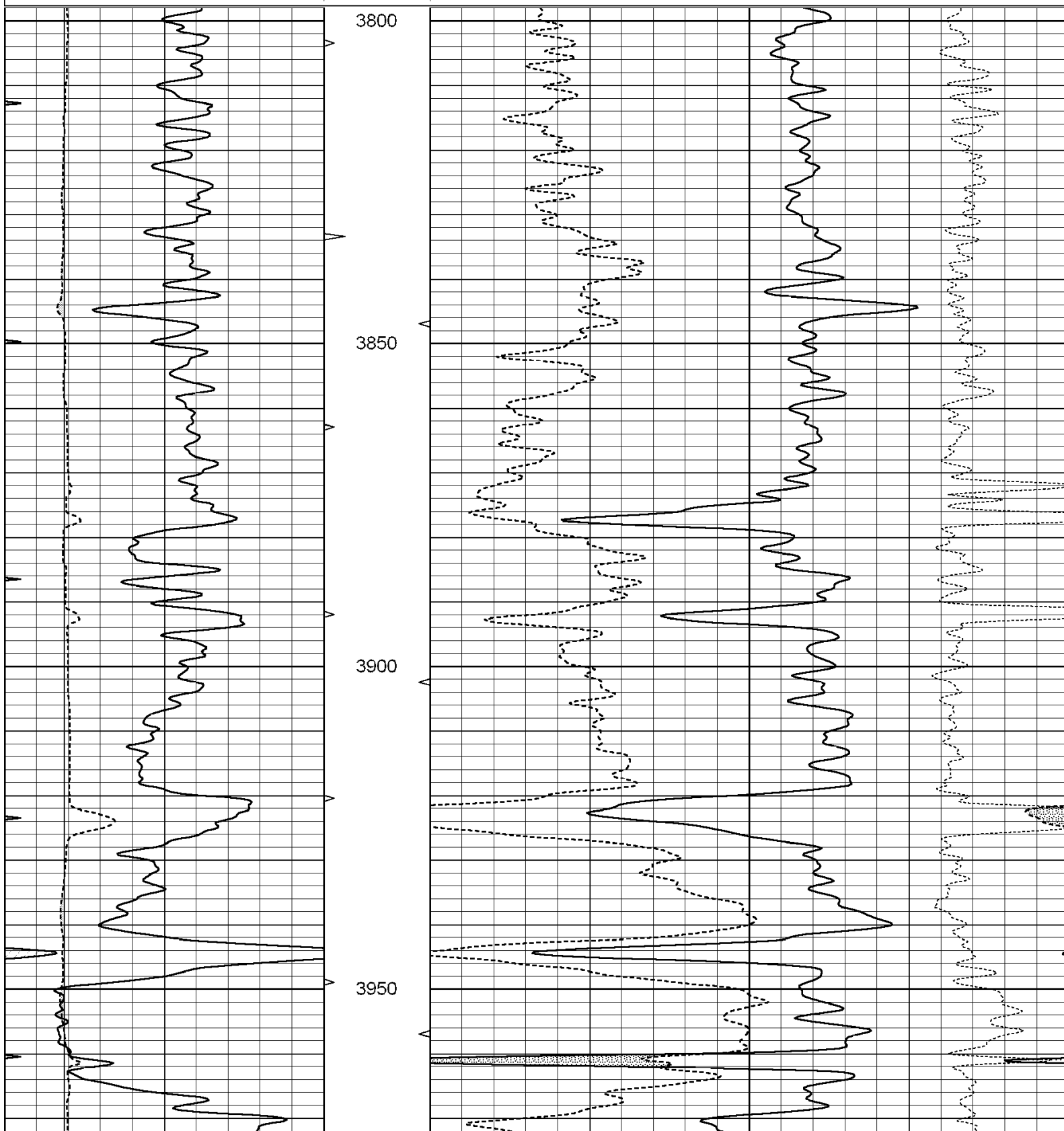


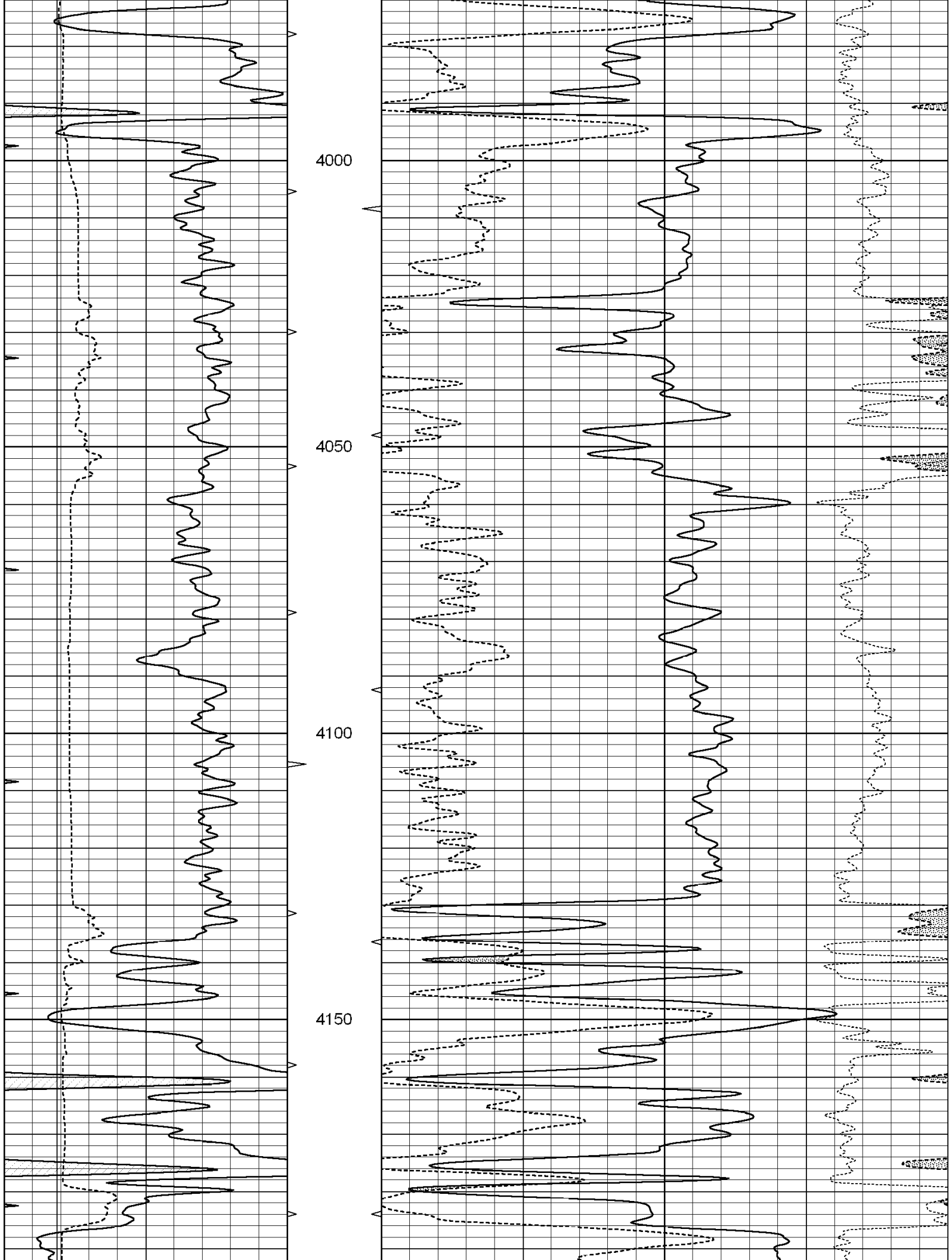
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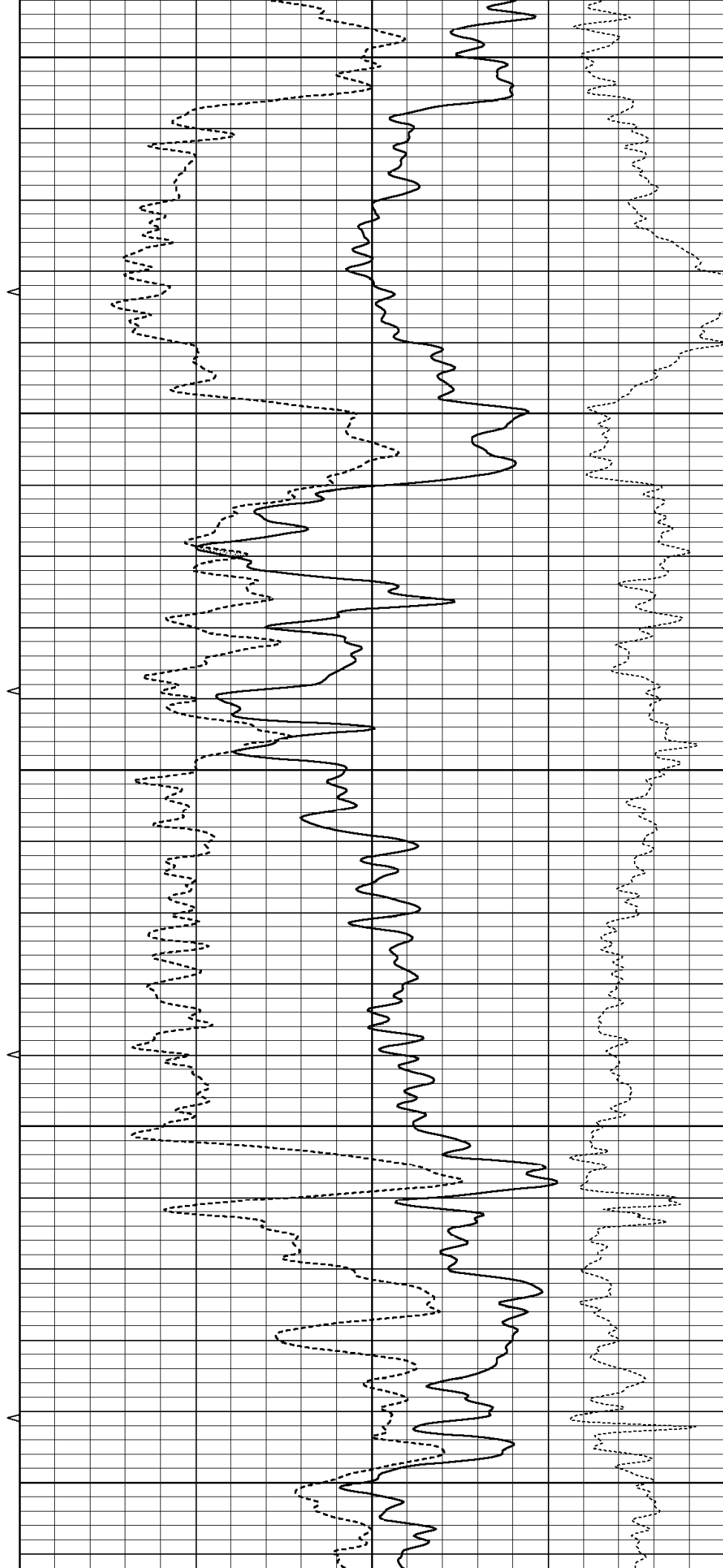
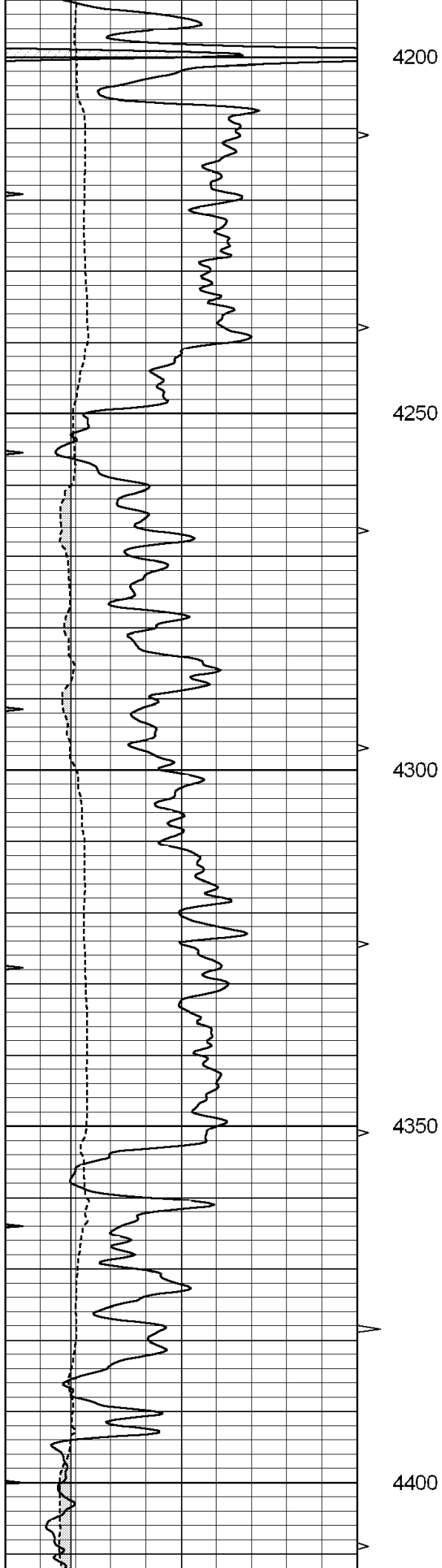
MAIN SECTION

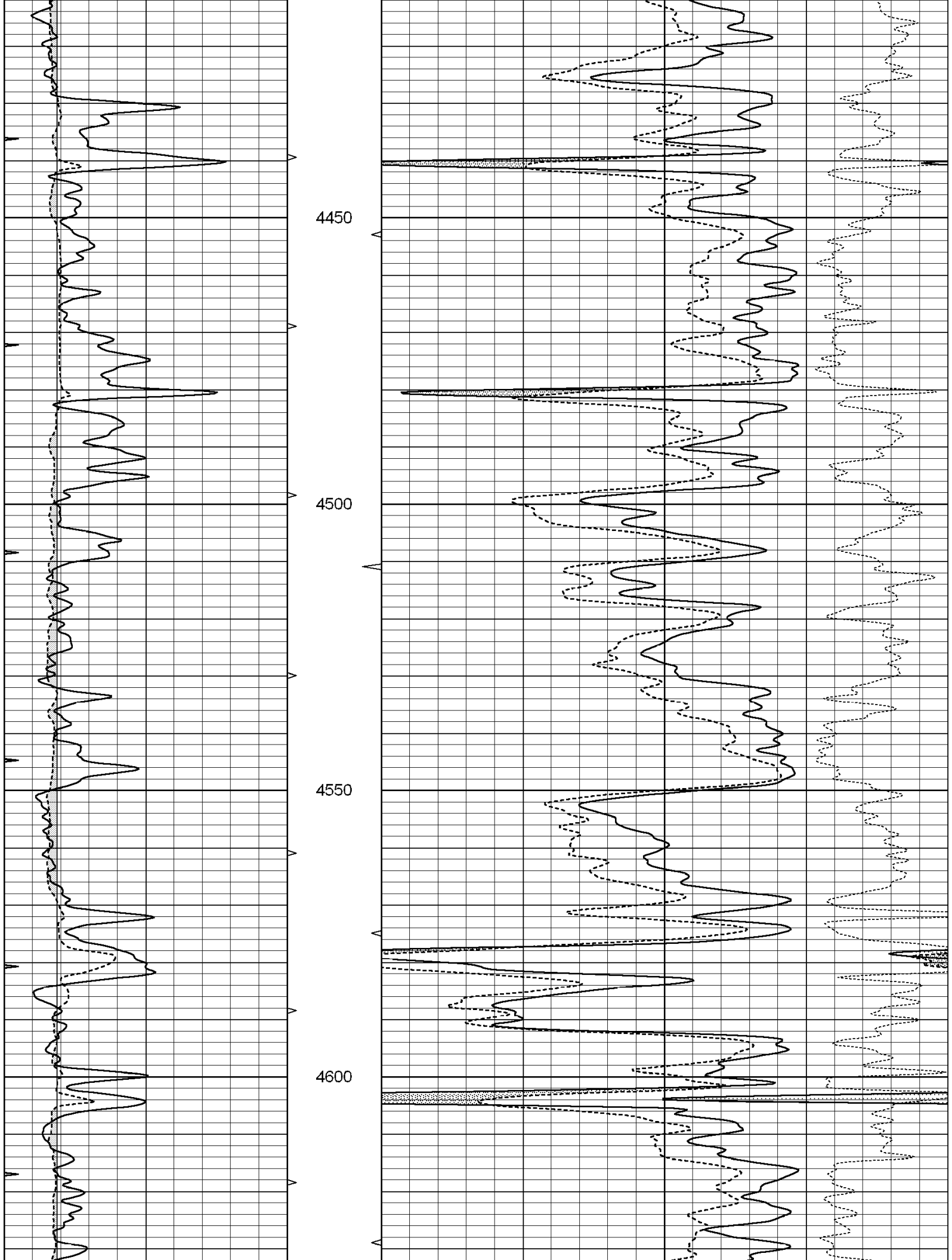
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Dataset Pathname: pass3.4
Presentation Format: _den_neu
Dataset Creation: Tue Jun 16 07:12:24 2009 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

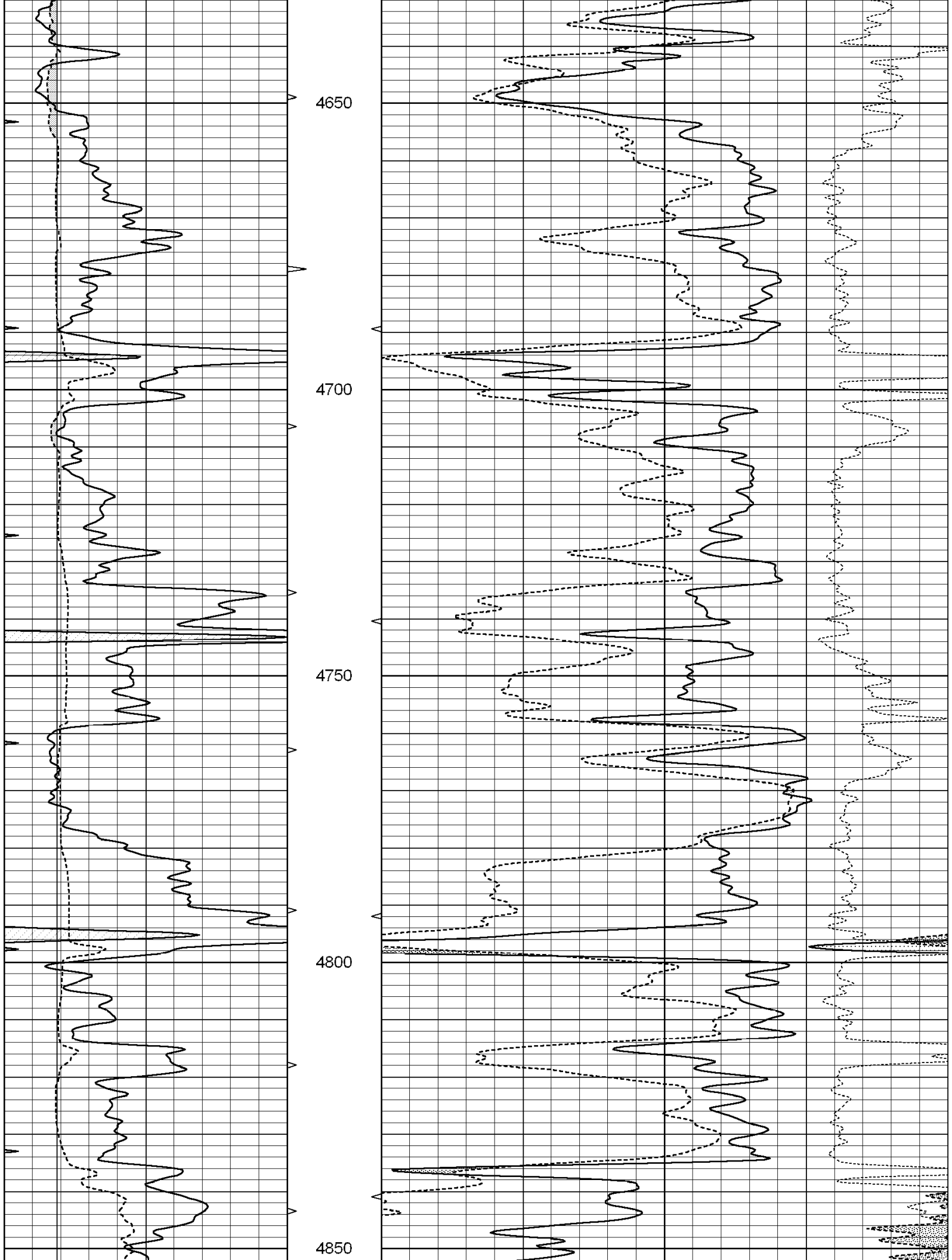
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			

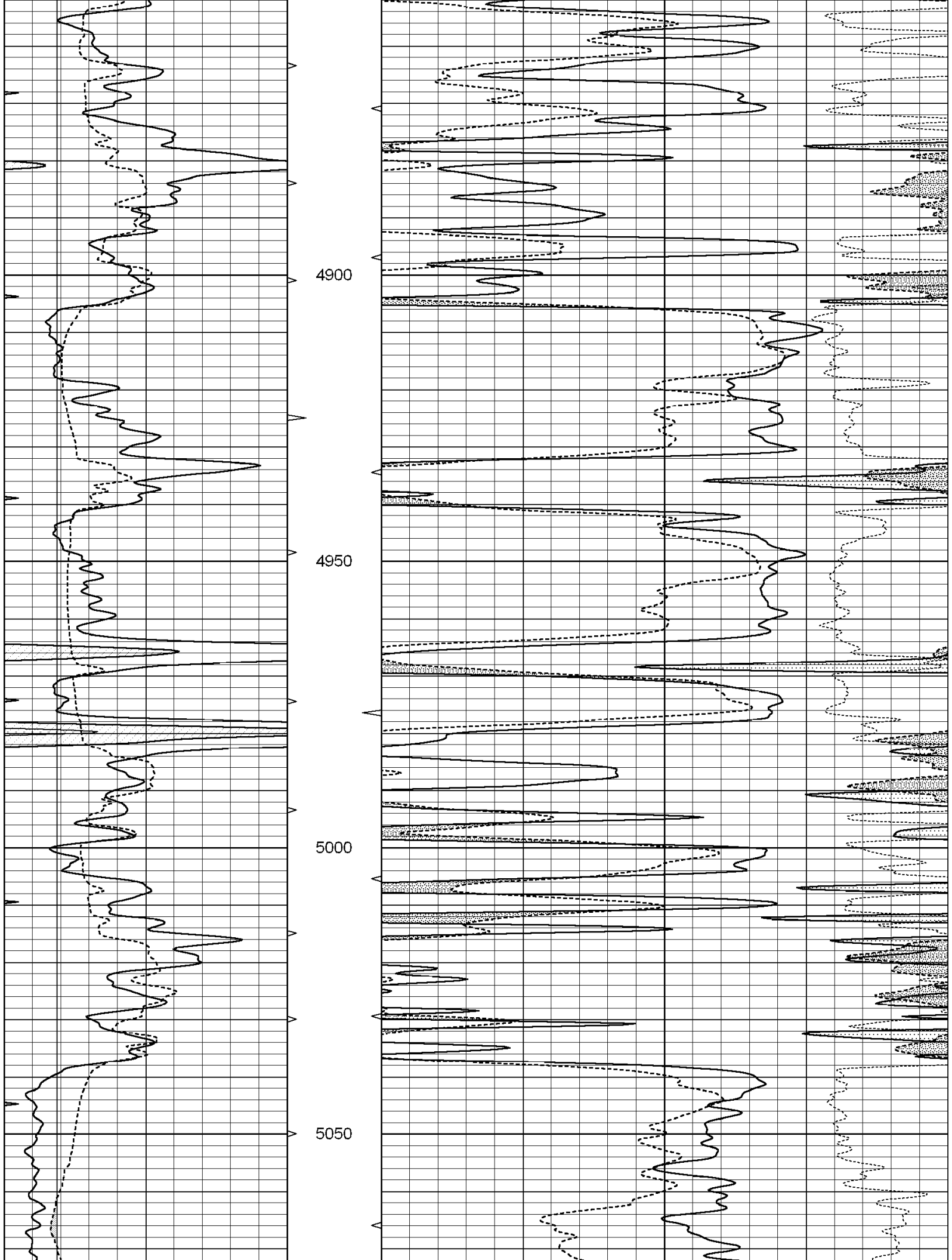


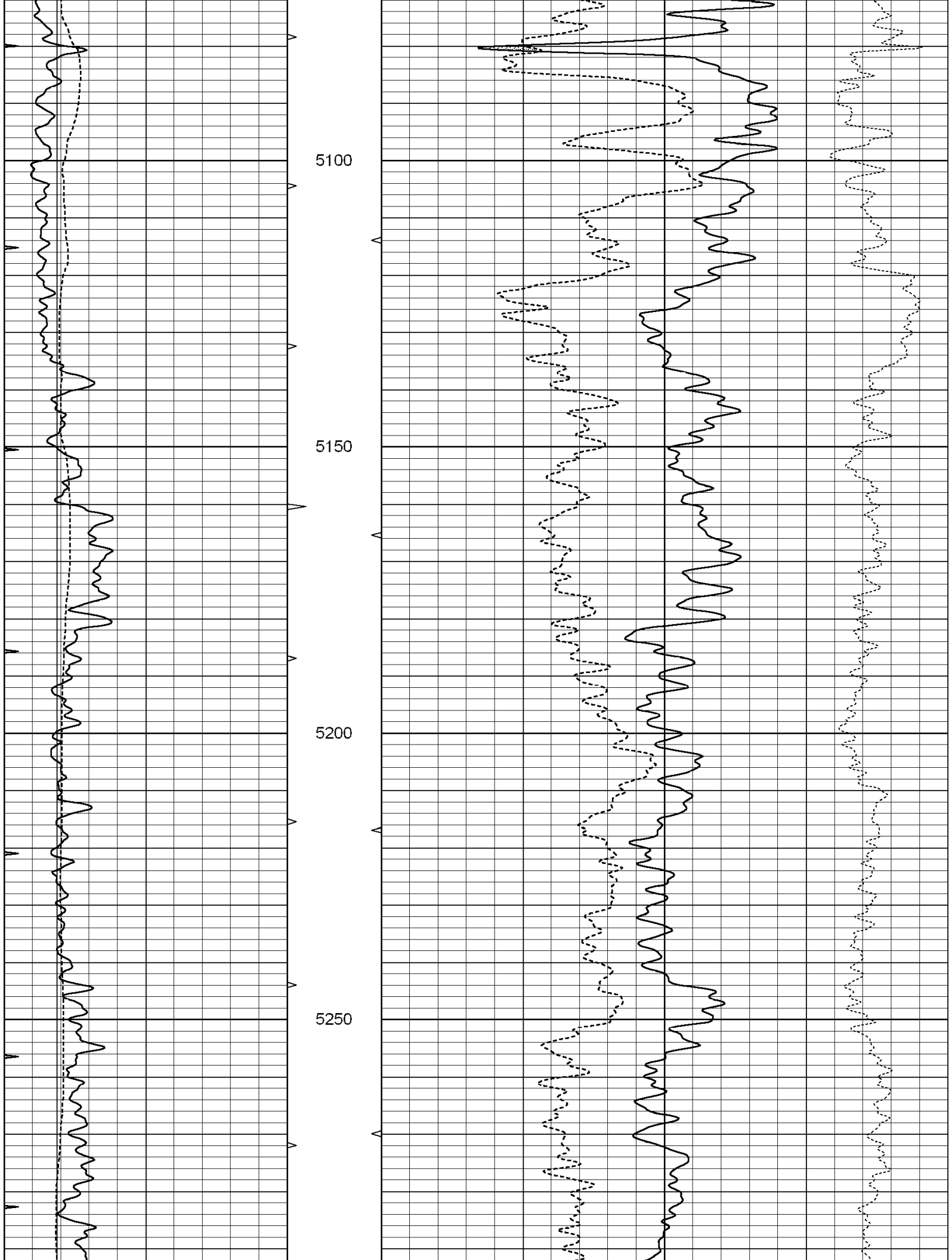


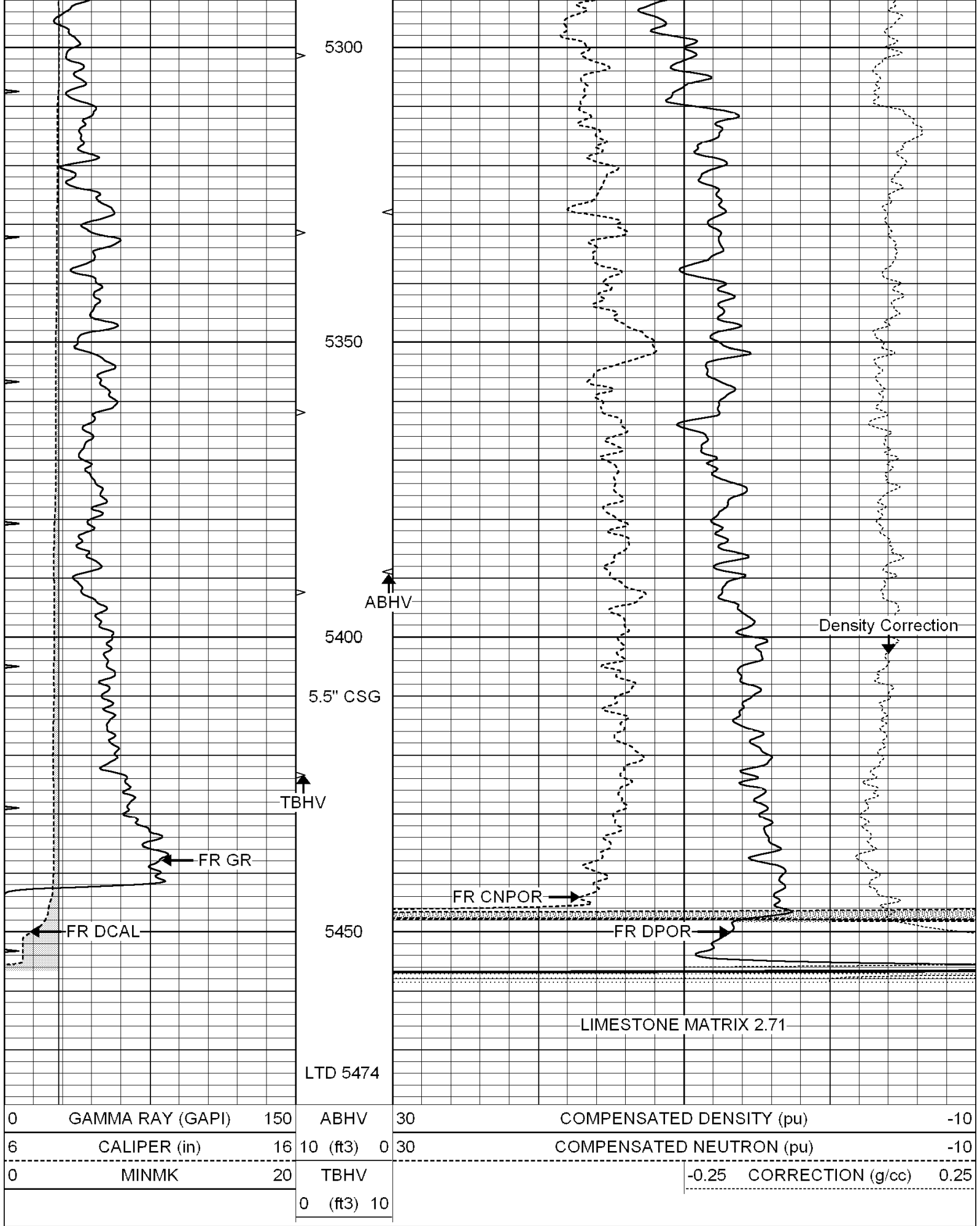












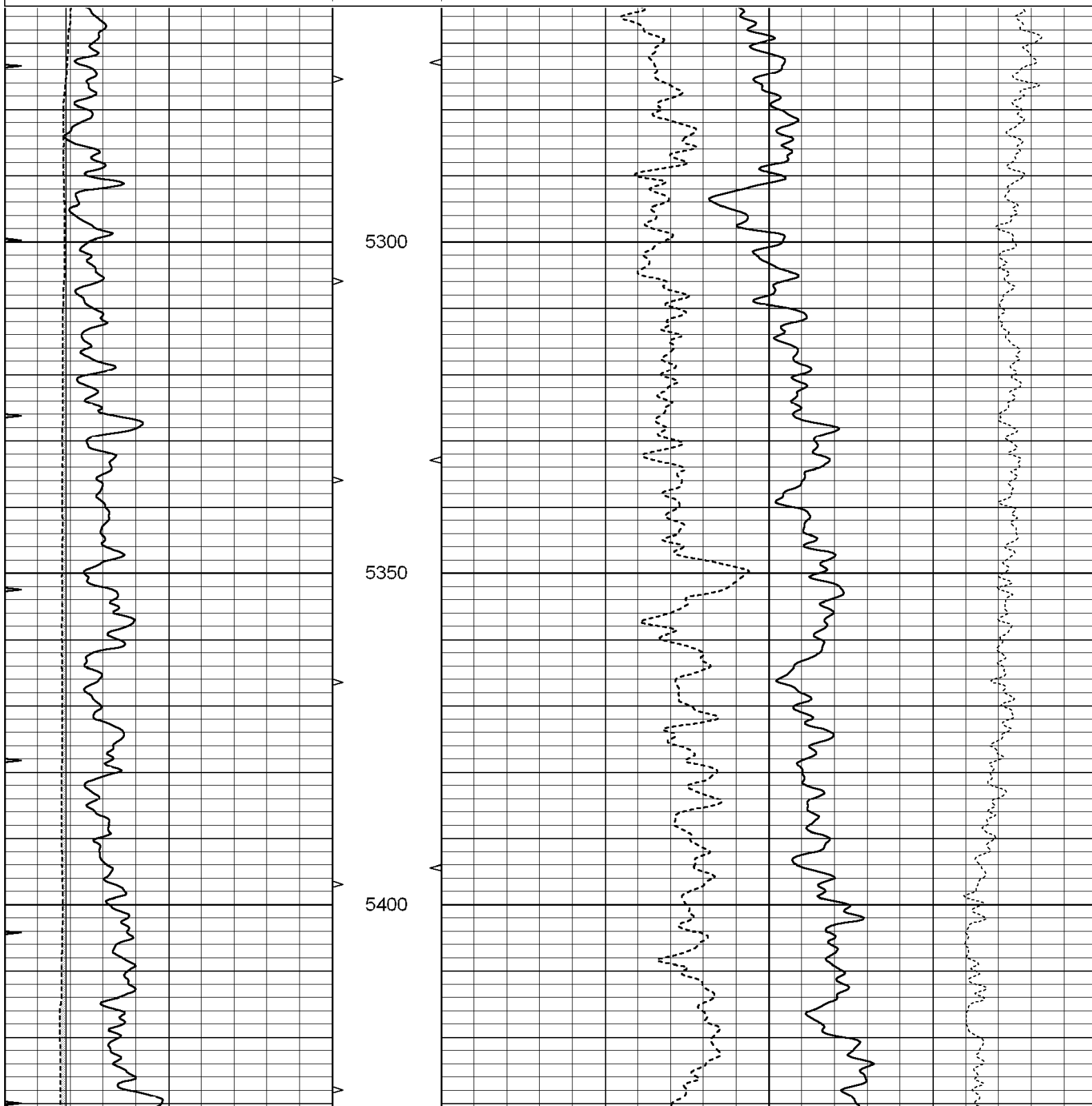


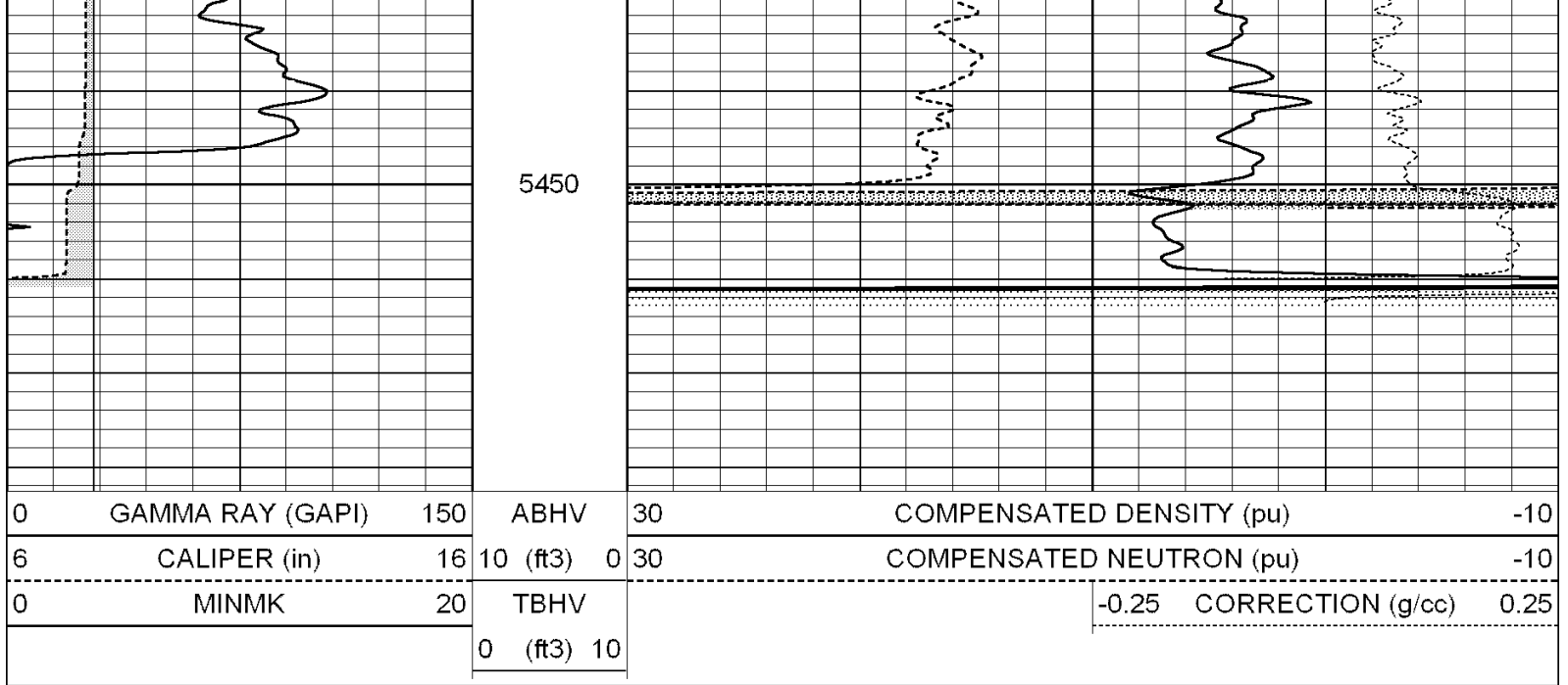
Hays,
Kansas

REPEAT SECTION

Database File: 003723ddn.db
Dataset Pathname: pass2.2
Presentation Format: _den_neu
Dataset Creation: Tue Jun 16 07:19:35 2009 by Calc Open-Cased 070814
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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





Calibration Report

Database File: 003723ddn.db
Dataset Pathname: pass3.4
Dataset Creation: Tue Jun 16 07:12:24 2009 by Calc Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Fri Aug 01 06:33:19 2008
Downhole Cal Performed: Mon Jul 28 11:08:27 2008
After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho-m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho-m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho-m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho-m	625.992	-9.739

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	2.011	405.777	mmho-m	1.000	0.000
Medium	0.000	0.000	mmho-m	7.590	503.393	mmho-m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-6.500	V		3800.000	mmho-m		

After Survey Verification

Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	0.000	0.000	mmho-m	0.000	0.000
Medium	0.000	0.000	mmho-m	0.000	0.000	mmho-m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		

0.000	Ohm-m	0.000	Ohm-m
1.000	mmho-m	1.000	mmho-m
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	2.580 g/cc	325.11	479.52 cps
Spine Angle = 78.00		Density/Spine Ratio = 0.595	
	Size	Reading	
Small Ring	8.00 in	3.56	V
Large Ring	14.00 in	6.65	V

Compensated Neutron Calibration Report					
Serial Number:		6I			
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:	GR6				
Tool Model:	OPEN				
Performed:	Sat Jun 06 22:43:03 2009				
Calibrator Value:	150.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	276.0	cps			
Sensitivity:	0.6735	GAPI/cps			