



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY
NEUTRON LOG

Company BUFFALO RESOURCES, LLC.
Well MOG #1-28
Field WILDCAT
County RUSSELL
State KANSAS

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Well MOG #1-28
Field WILDCAT
County RUSSELL State KANSAS

Location: API #: 15-167-23568
335' FNL & 2160' FEL
NE/4
SEC 28 TWP 15S RGE 11W
Permanent Datum GROUND LEVEL Elevation 1723
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
SONIC/MEL
Elevation
K.B. 1731
D.F.
G.L. 1723

Date	4-25-09		
Run Number	ONE		
Depth Driller	3290		
Depth Logger	3290		
Bottom Logged Interval	3266		
Top Log Interval	2300		
Casing Driller	394		
Casing Logger	NA		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.6 / 57		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.90 @ 80F		
Rinf @ Meas. Temp	0.68 @ 80F		
Rmc @ Meas. Temp	1.08 @ 80F		
Source of Rinf / Rmc	FLOWLINE		
Rim @ BHT	.670 @ 108F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	108F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	CURTIS COVEY		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: WILSON & HOLYROOD RD., 7S TO STICKNEY RD., 3 1/2W, S INTO.

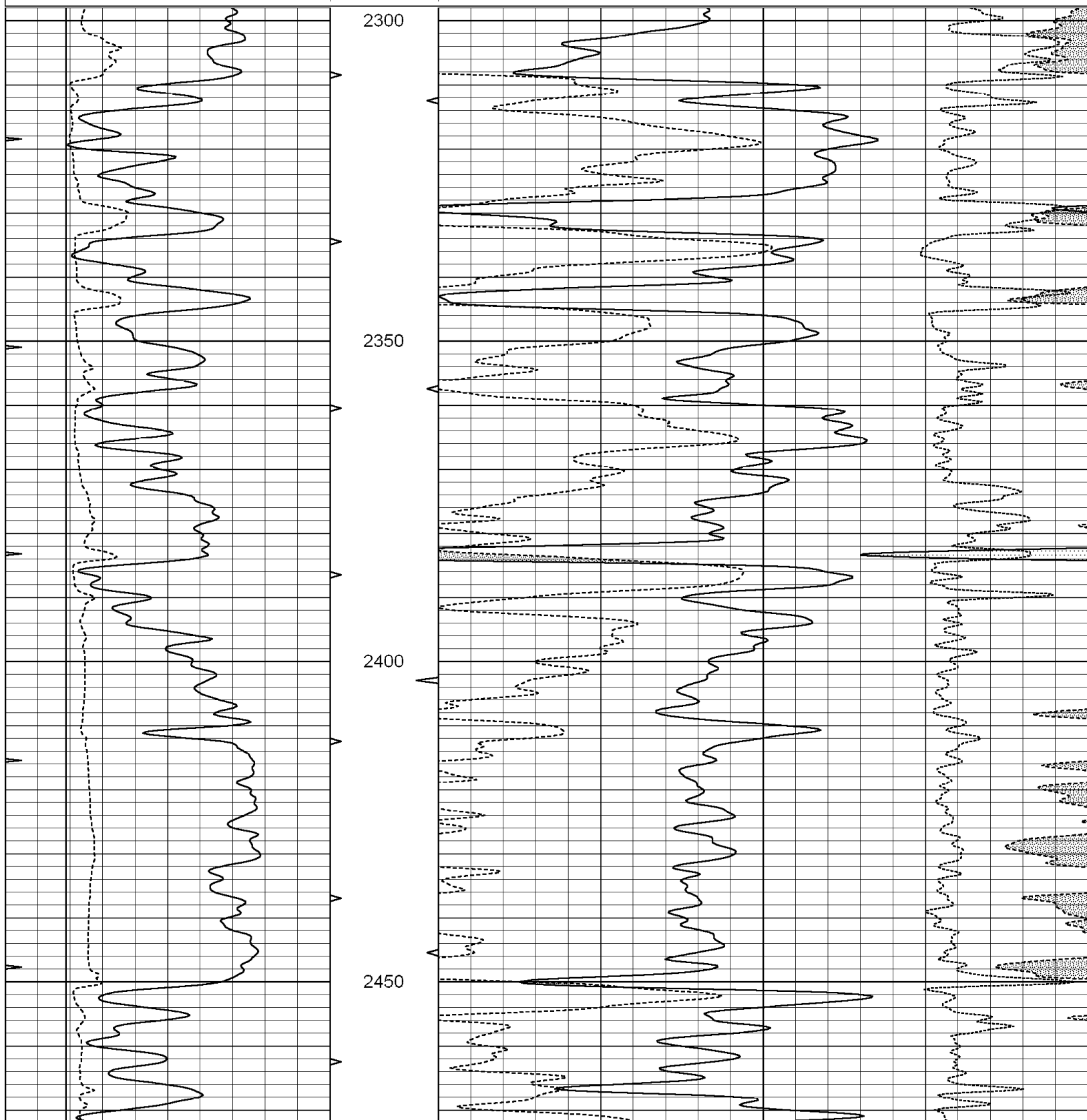


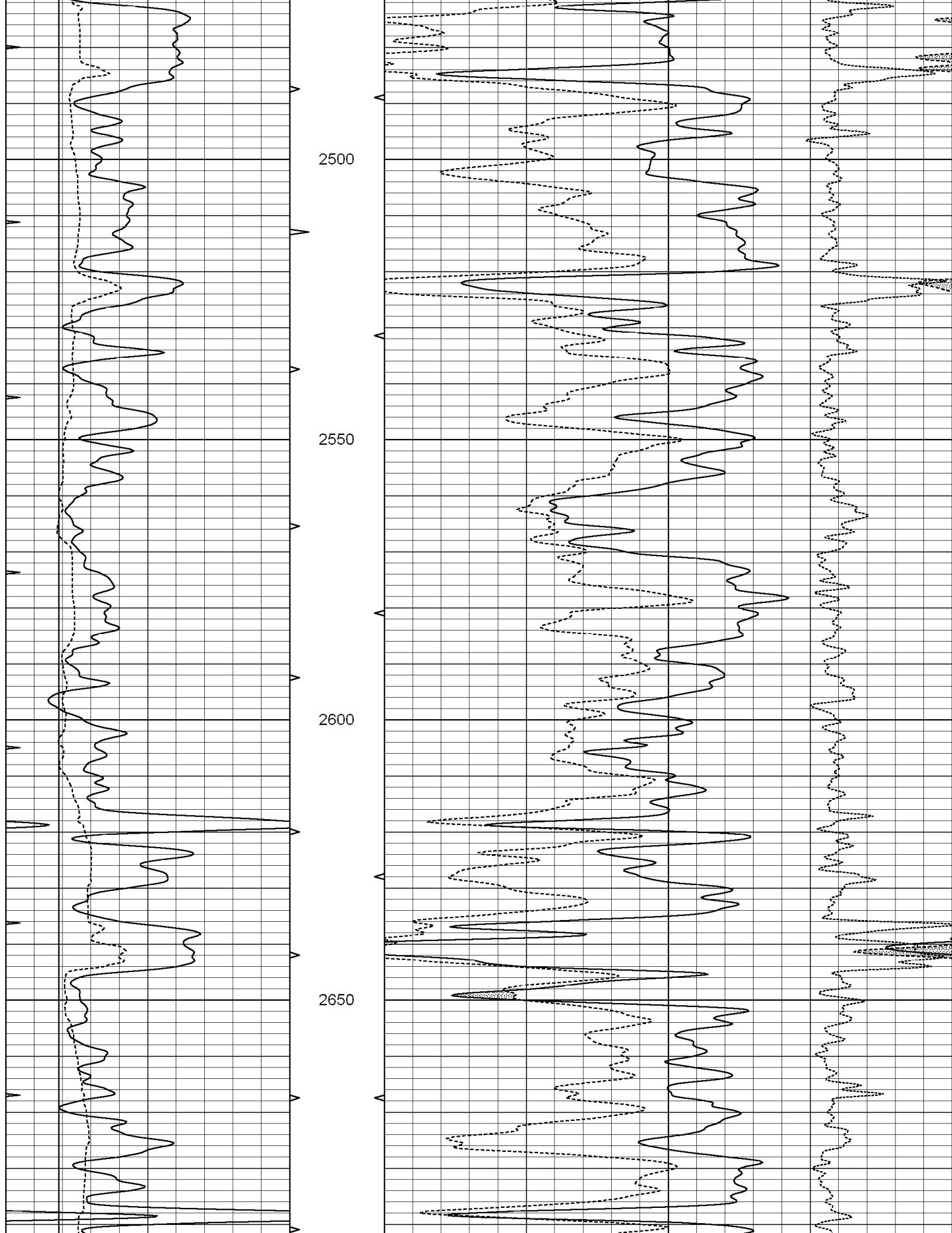
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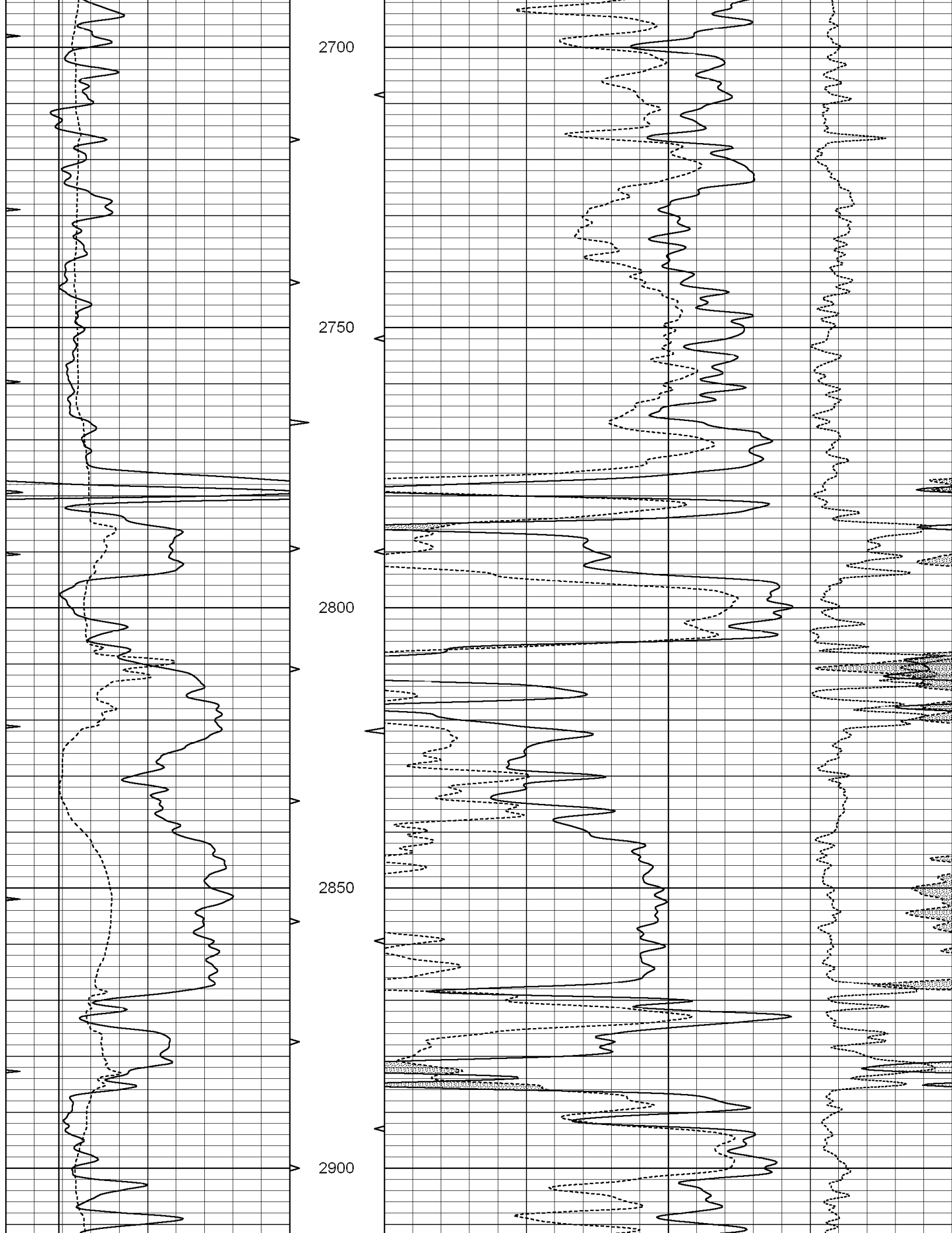
MAIN SECTION

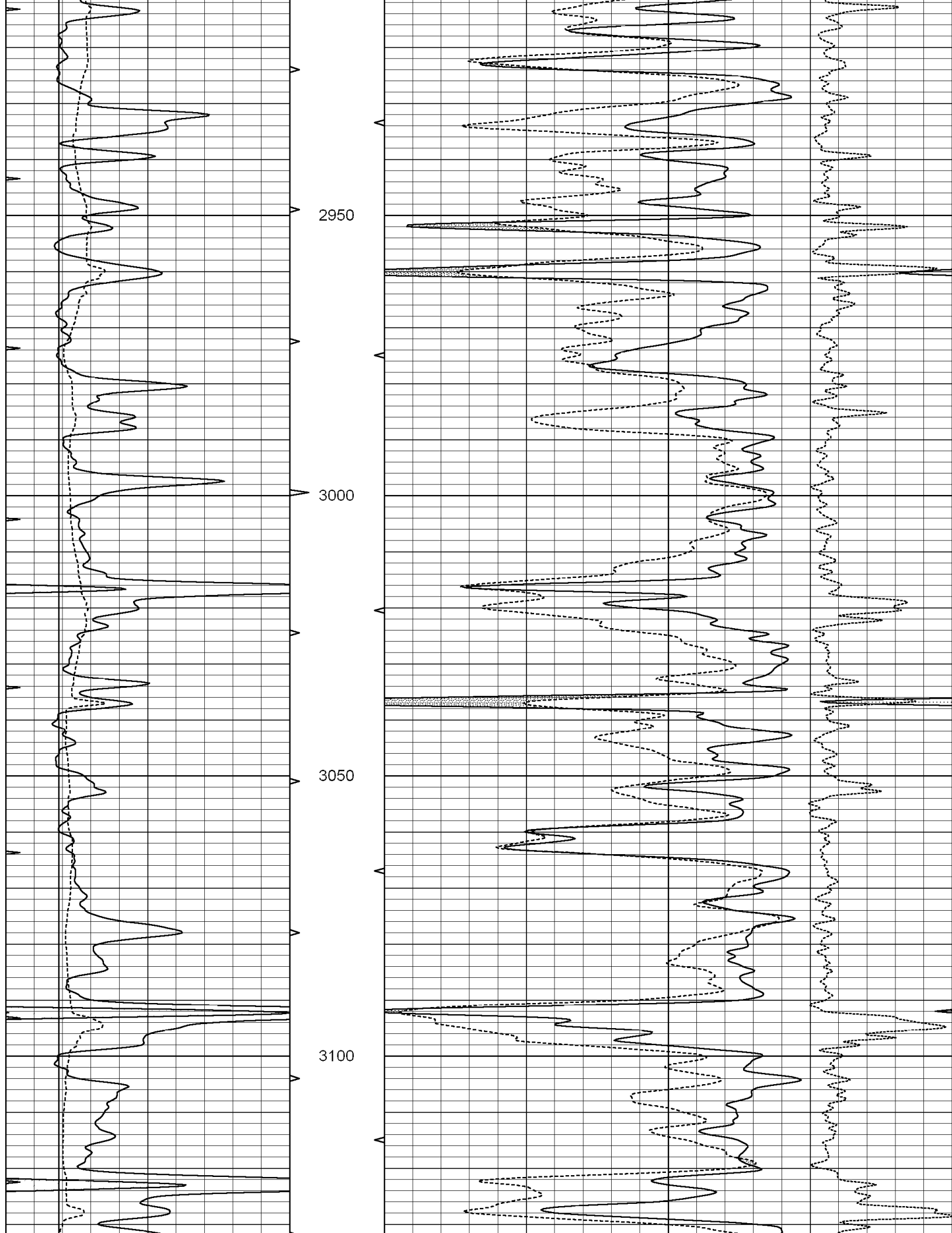
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Dataset Pathname: pass3.1A
Presentation Format: den_neu
Dataset Creation: Sat Apr 25 20:17:32 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240

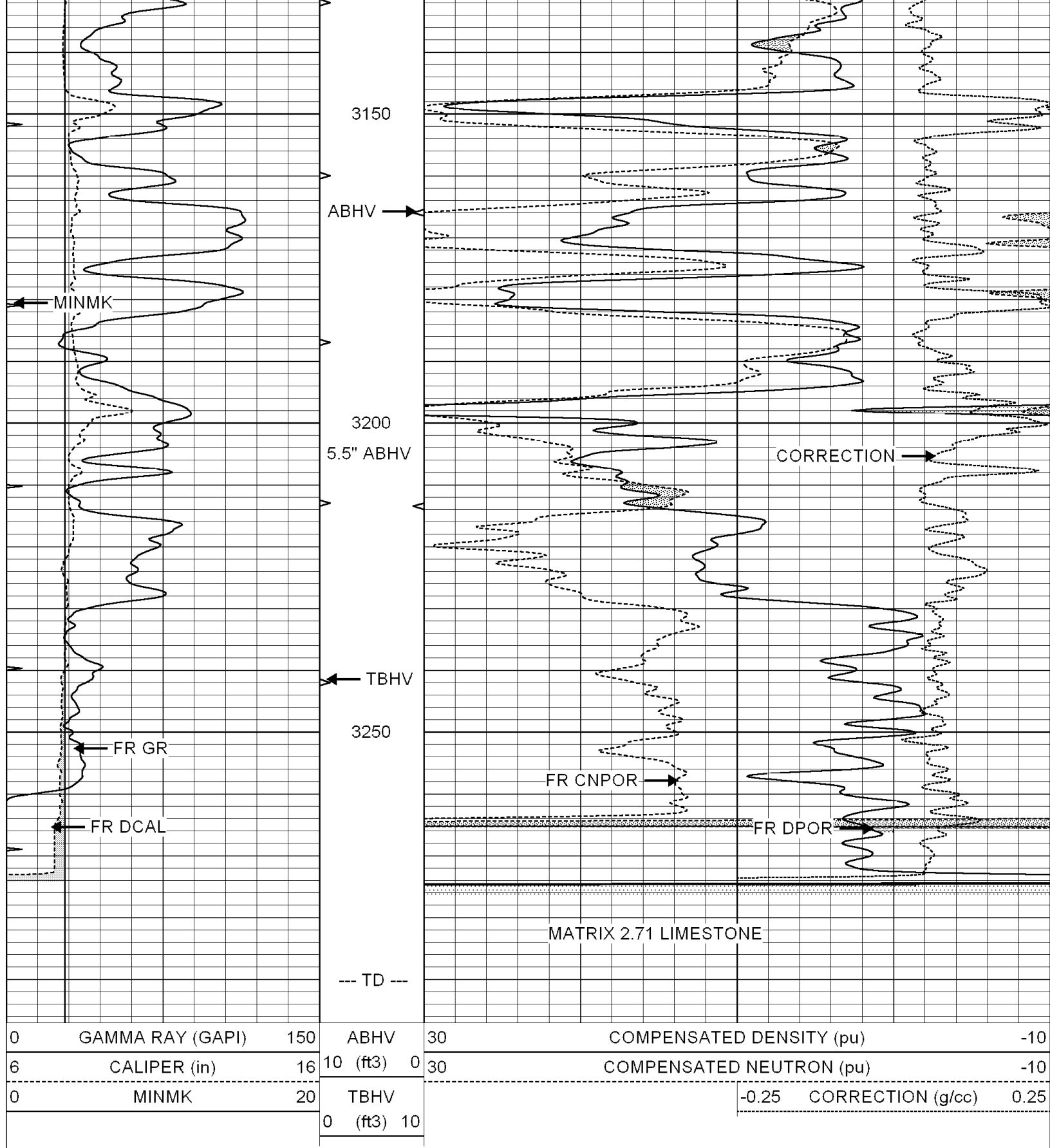
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			







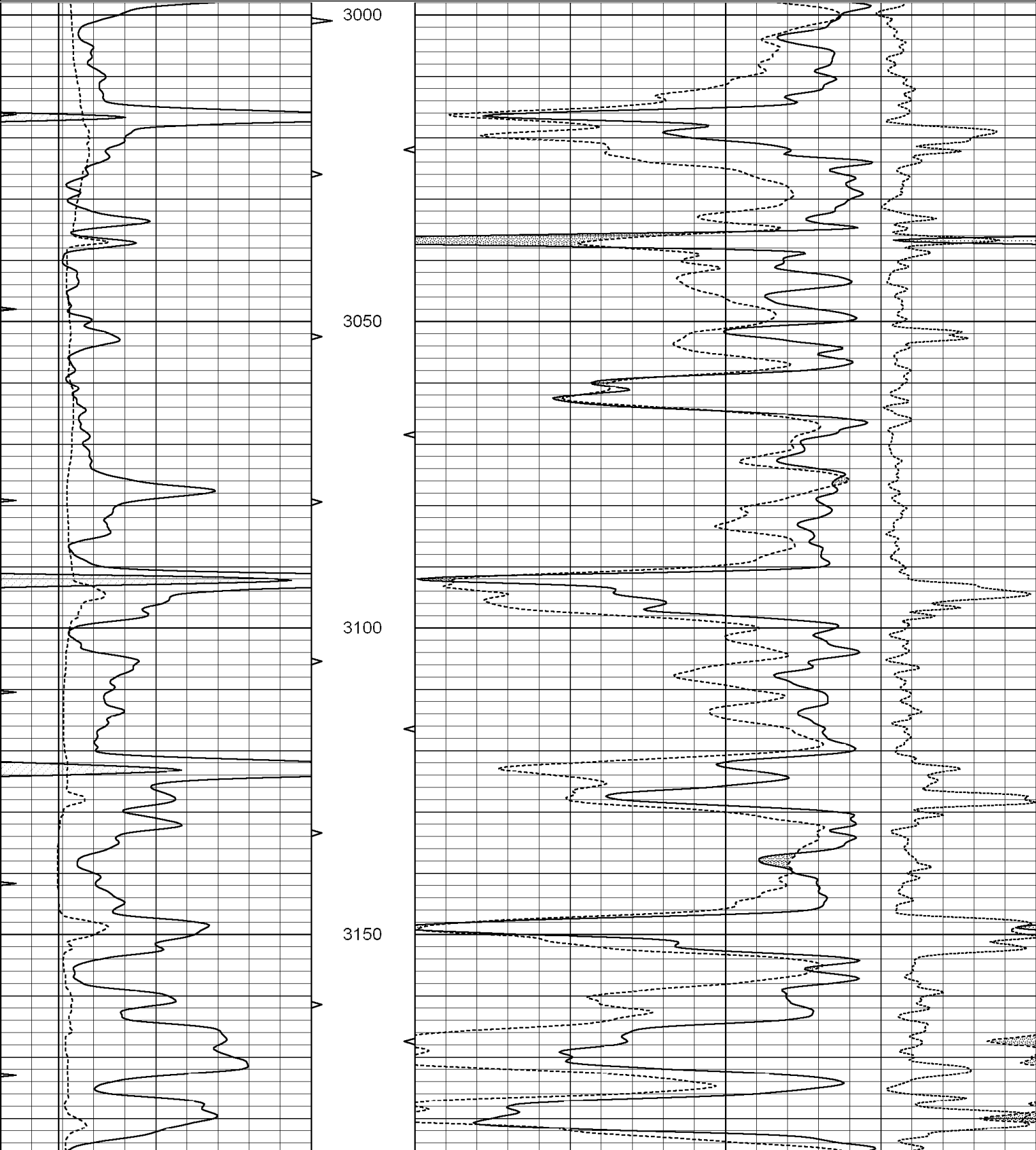


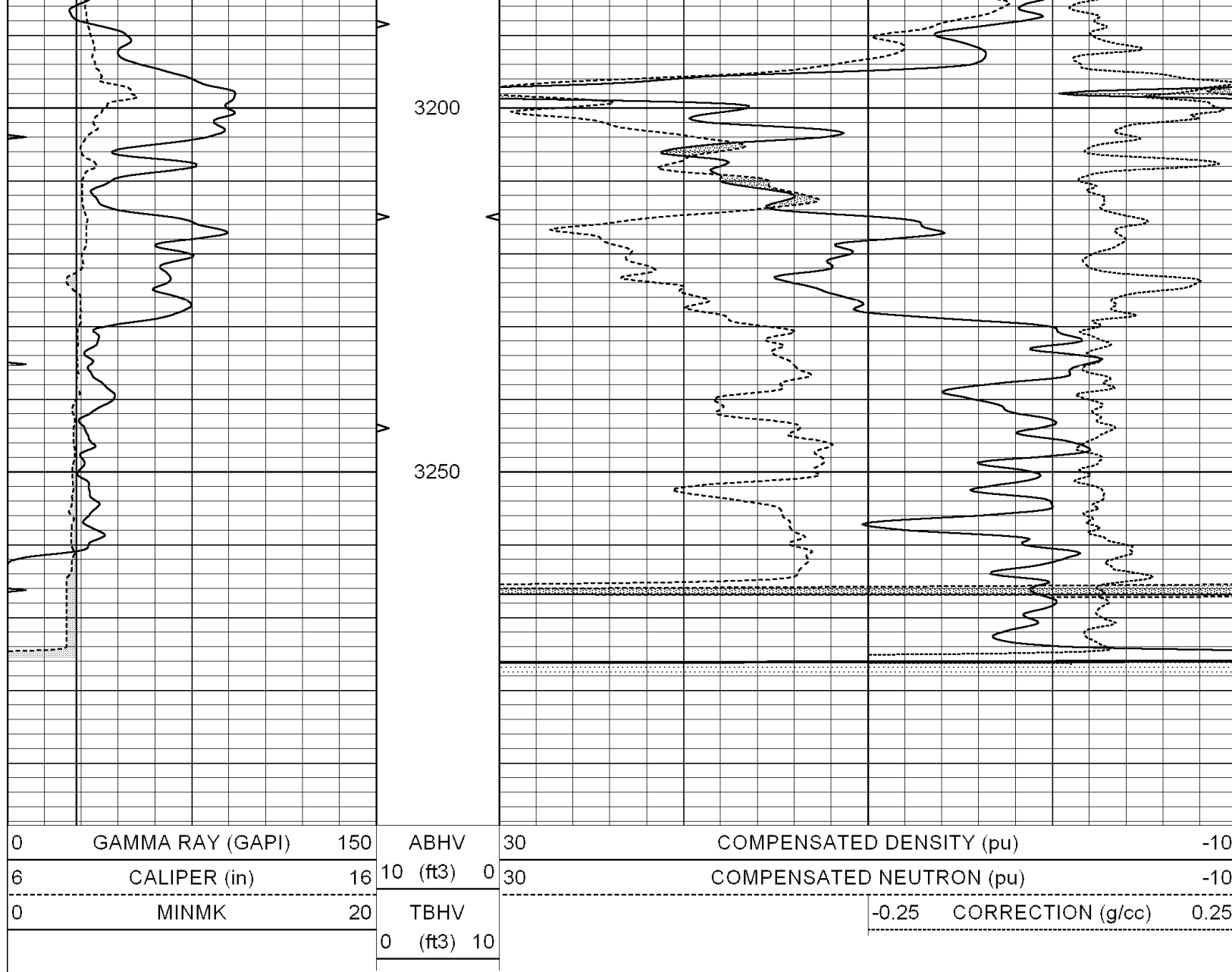


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REPEAT SECTION

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			





Calibration Report

Database File: 003246ddn.db
Dataset Pathname: pass3.1A
Dataset Creation: Sat Apr 25 20:17:32 2009 by Calc Open-Cased 051020

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Sat Apr 25 19:13:43 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	510.000	-7.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	500.000	-10.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho-m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho-m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEAPHART

Master Calibration

	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1006.91		528.07	cps
Aluminum	2.600	g/cc	233.49		355.80	cps
Spine Angle = 74.88			Density/Spine Ratio = 0.588			
	Size		Reading			
Small Ring	6.80	in	2.87		V	
Large Ring	14.00	in	5.71		V	

Compensated Neutron Calibration Report

Serial Number:
Tool Model:

NEU_1I
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:
Tool Model:
Performed:

GR5
OPEN
Sun Apr 19 10:19:31 2009

Calibrator Value:

1.0

GAPI

Background Reading:
Calibrator Reading:

0.0
1.0

cps
cps

Sensitivity:

0.5000

GAPI/cps