



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company BEAR PETROLEUM, LLC.
Well EBERHARDT # 2-24
Field REICHEL
County RUCH State KANSAS

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Location: API #: 15-165-22091-00-00
1980' FSL & 3300' FEL
NE - SW
Other Services
DIL/MEL
Elevation
SEC 24 TWP 17S RGE 17W
Permanent Datum GROUND LEVEL Elevation 2048
Log Measured From KELLY BUSHING 14' A.G.L.
Drilling Measured From KELLY BUSHING

Date	9/30/14		
Run Number	ONE		
Depth Driller	3650		
Depth Logger	3646		
Bottom Logged Interval	3622		
Top Log Interval	1900		
Casing Driller	8 5/8" @ 1128		
Casing Logger	1130		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.4/5.1		
pH / Fluid Loss	8.0/10.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.60 @ 90F		
Rmf @ Meas. Temp	0.45 @ 90F		
Rmc @ Meas. Temp	0.72 @ 90F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.48 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	113F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	ROD ANDERSON		

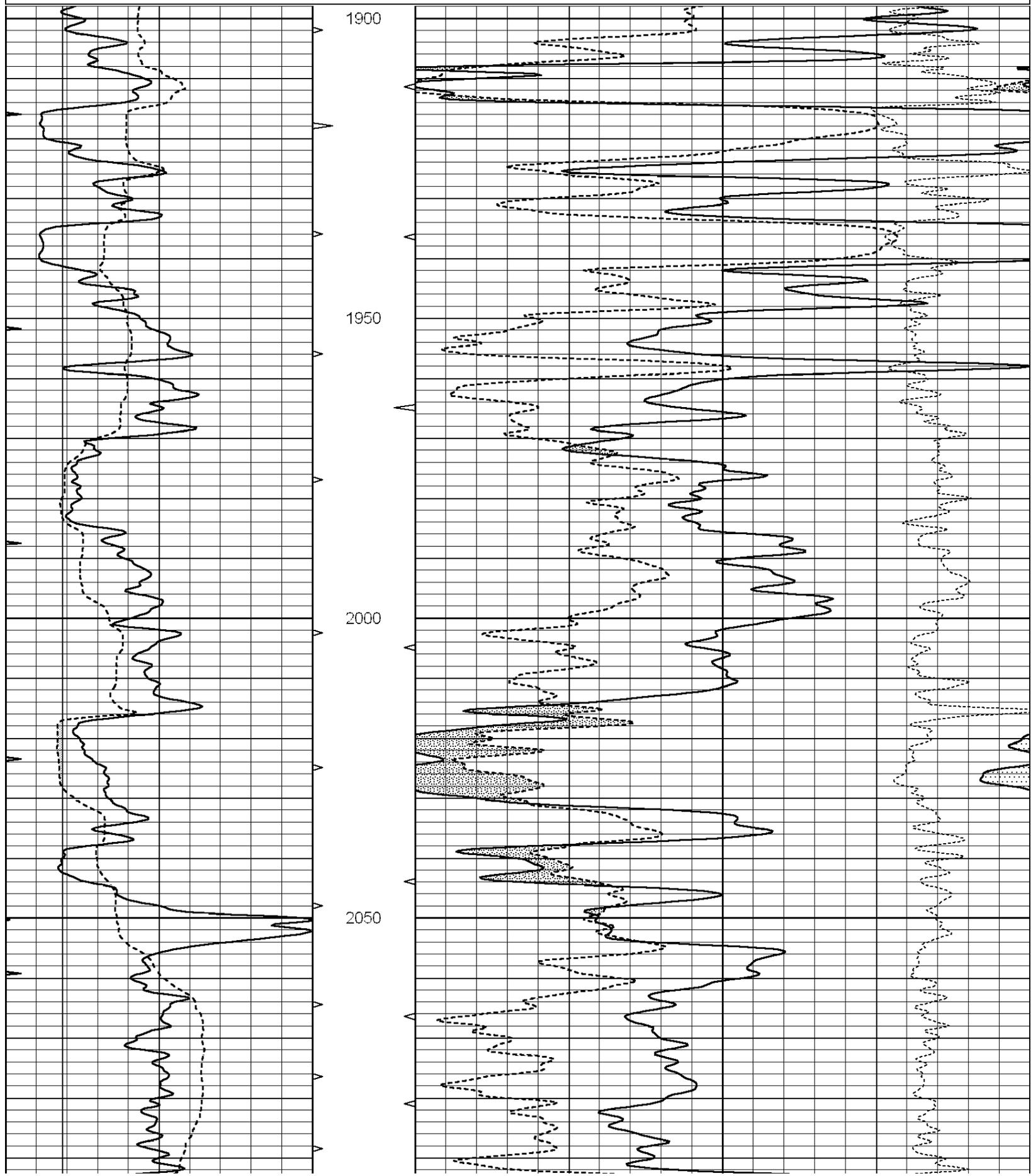
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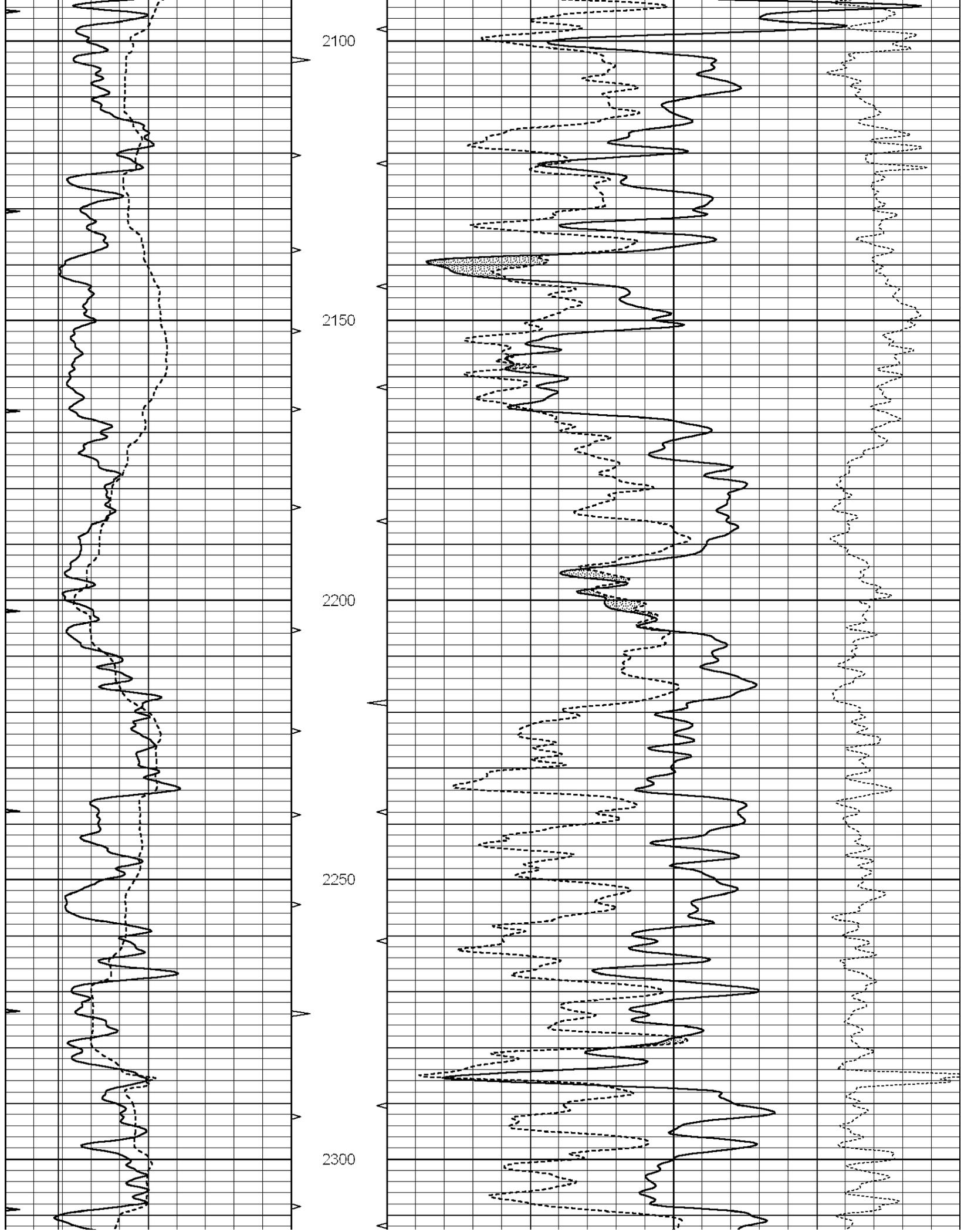
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

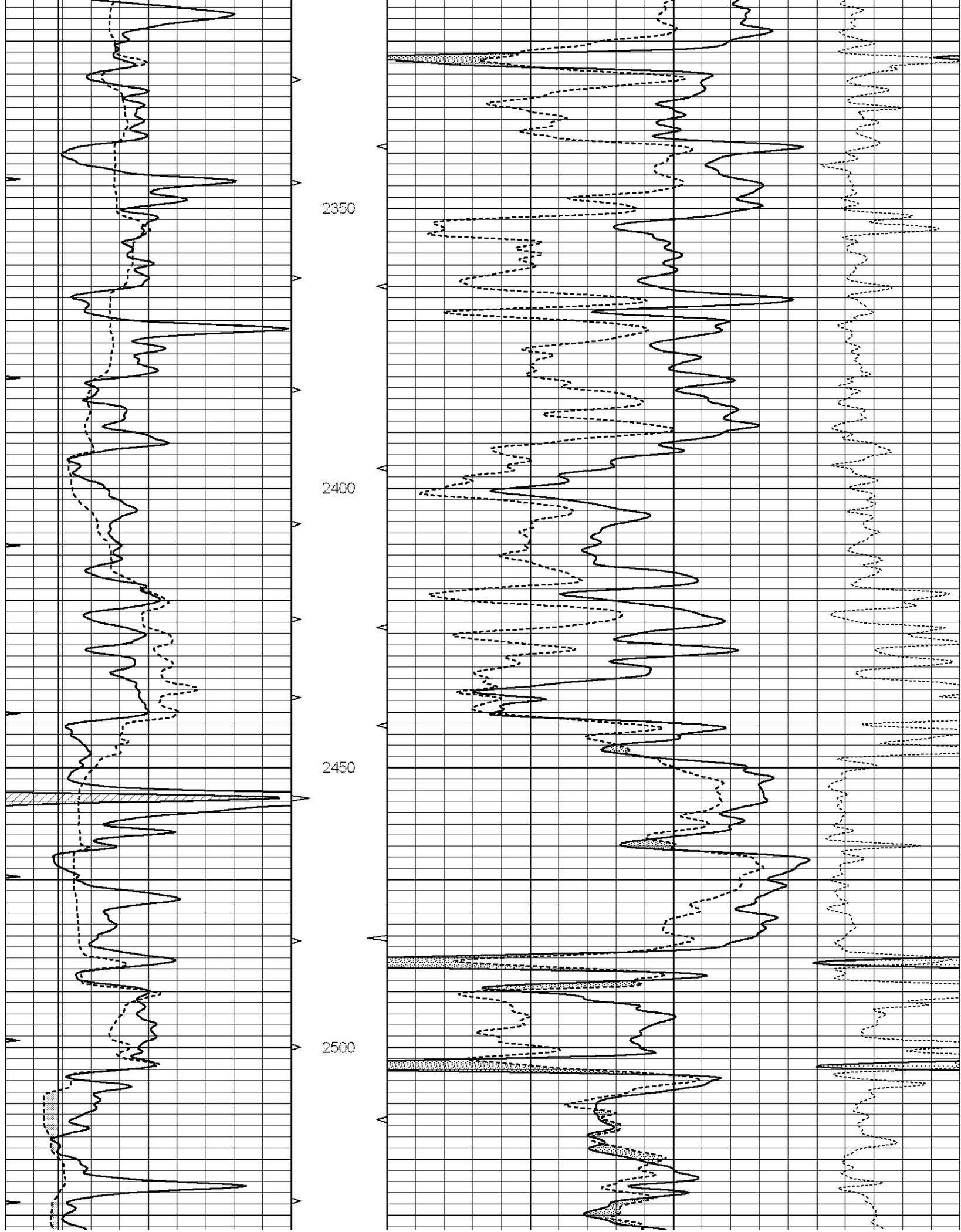
Comments

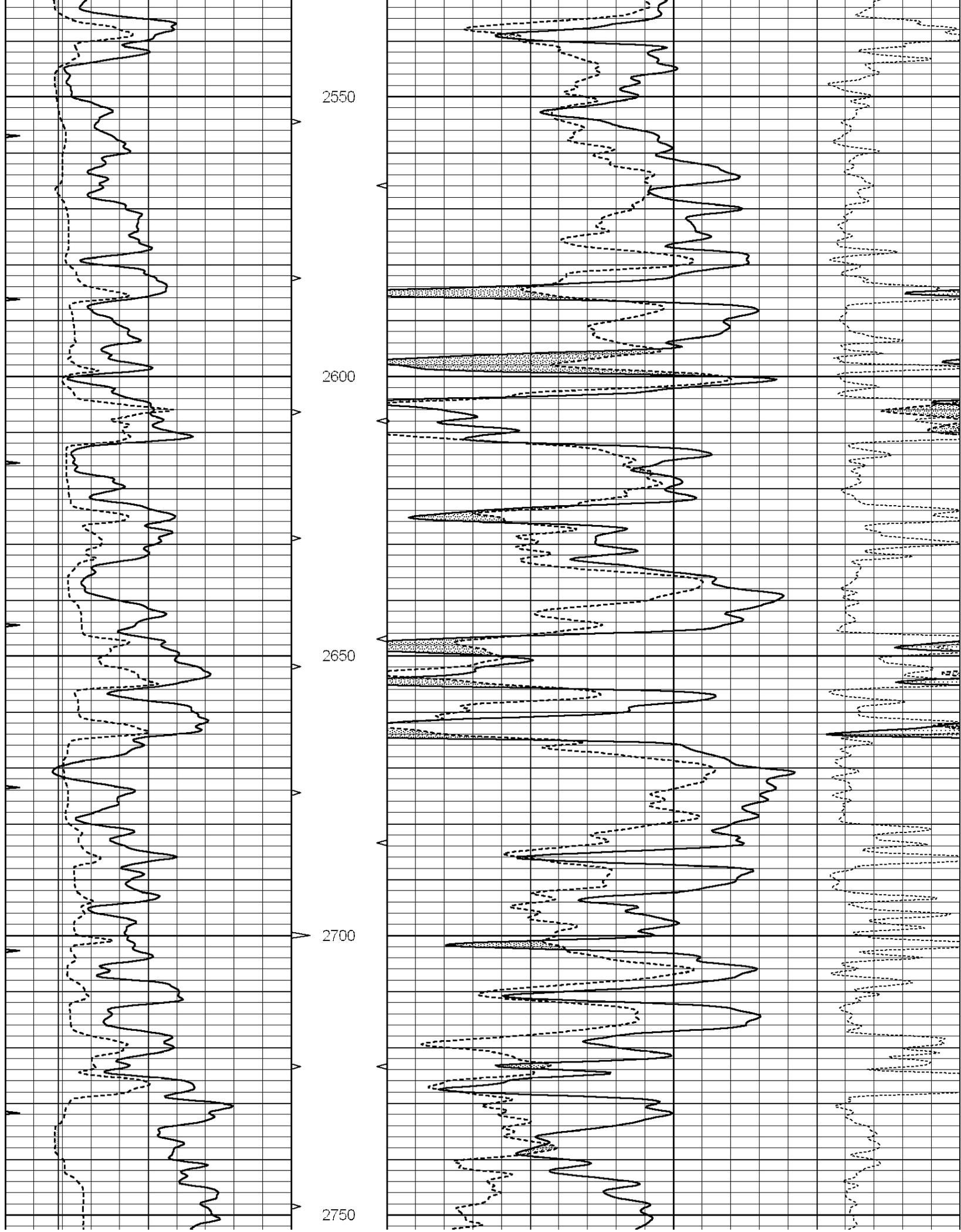
THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395
DIRECTIONS: BISON, KS. & HWY 4 - 2 MILES EAST TO CR 330 - NORTH 1 1/2 MILES EAST INTO

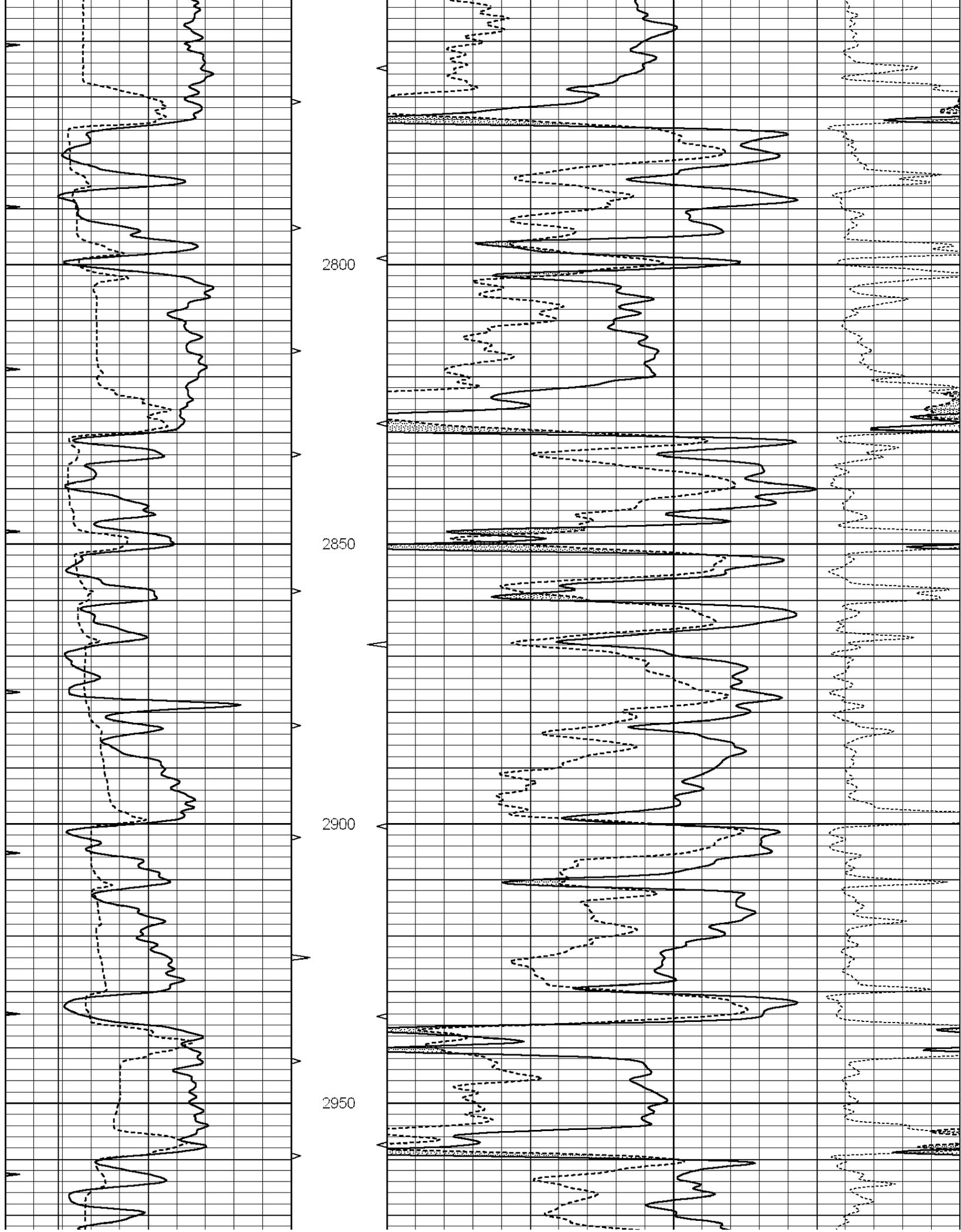
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

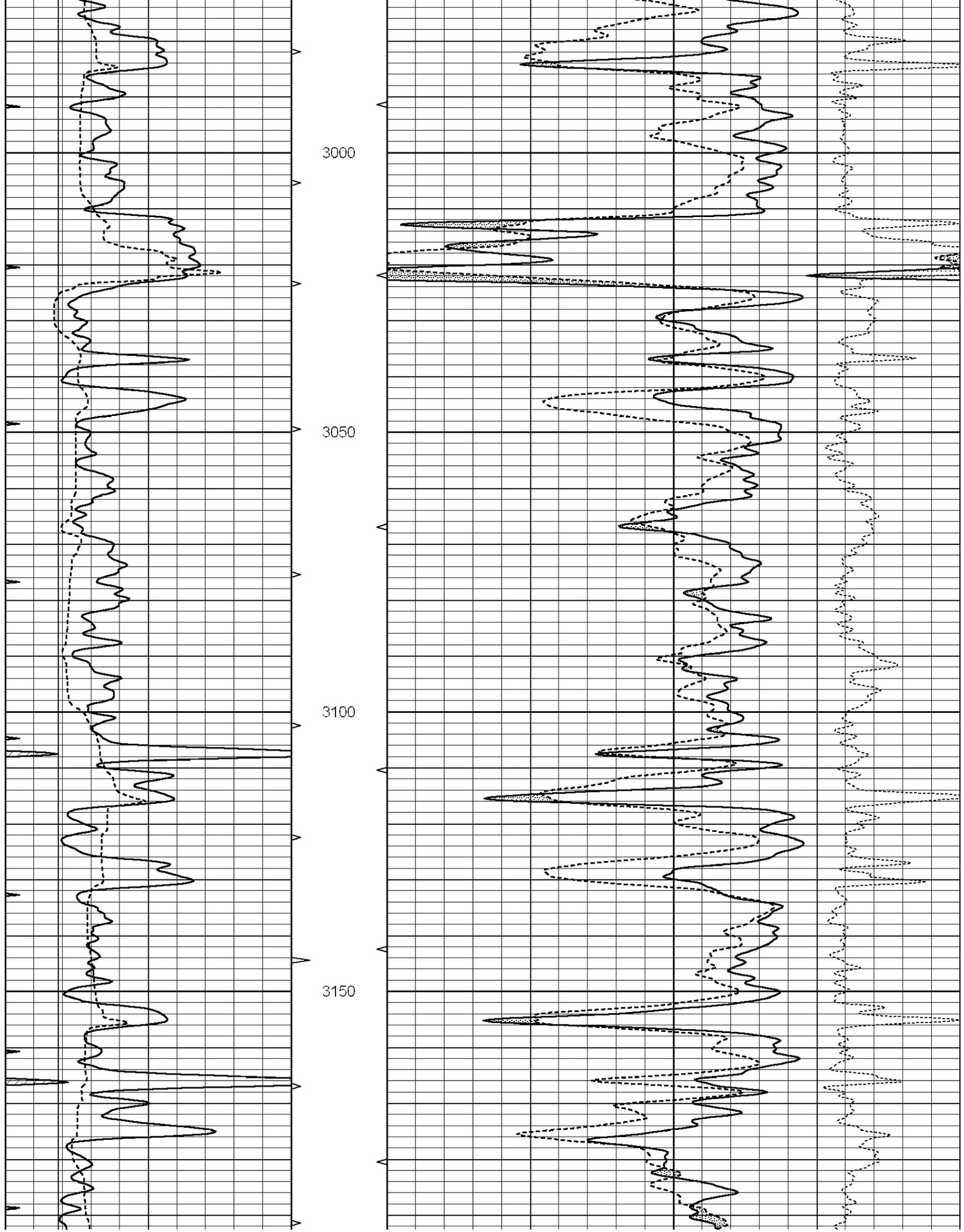


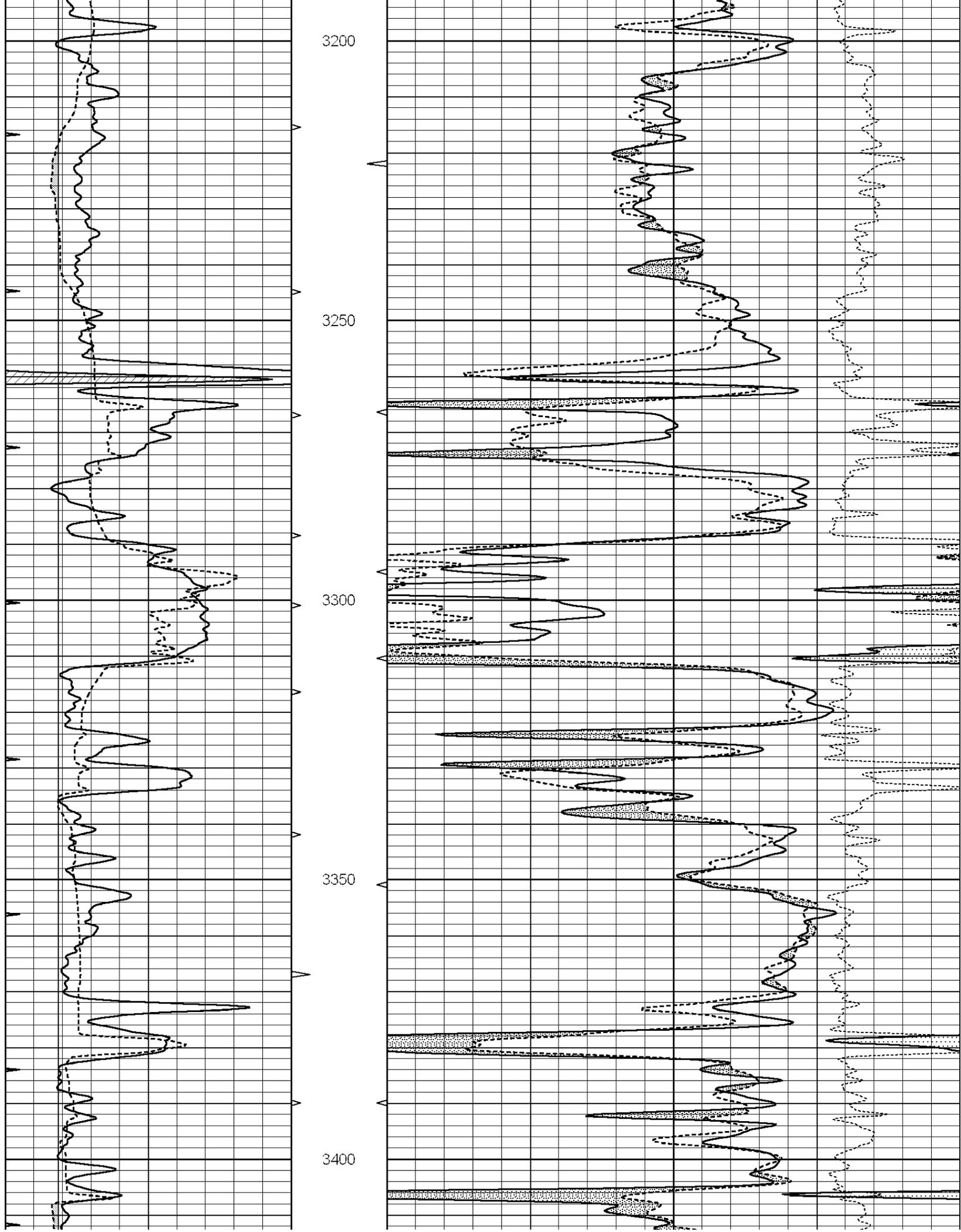


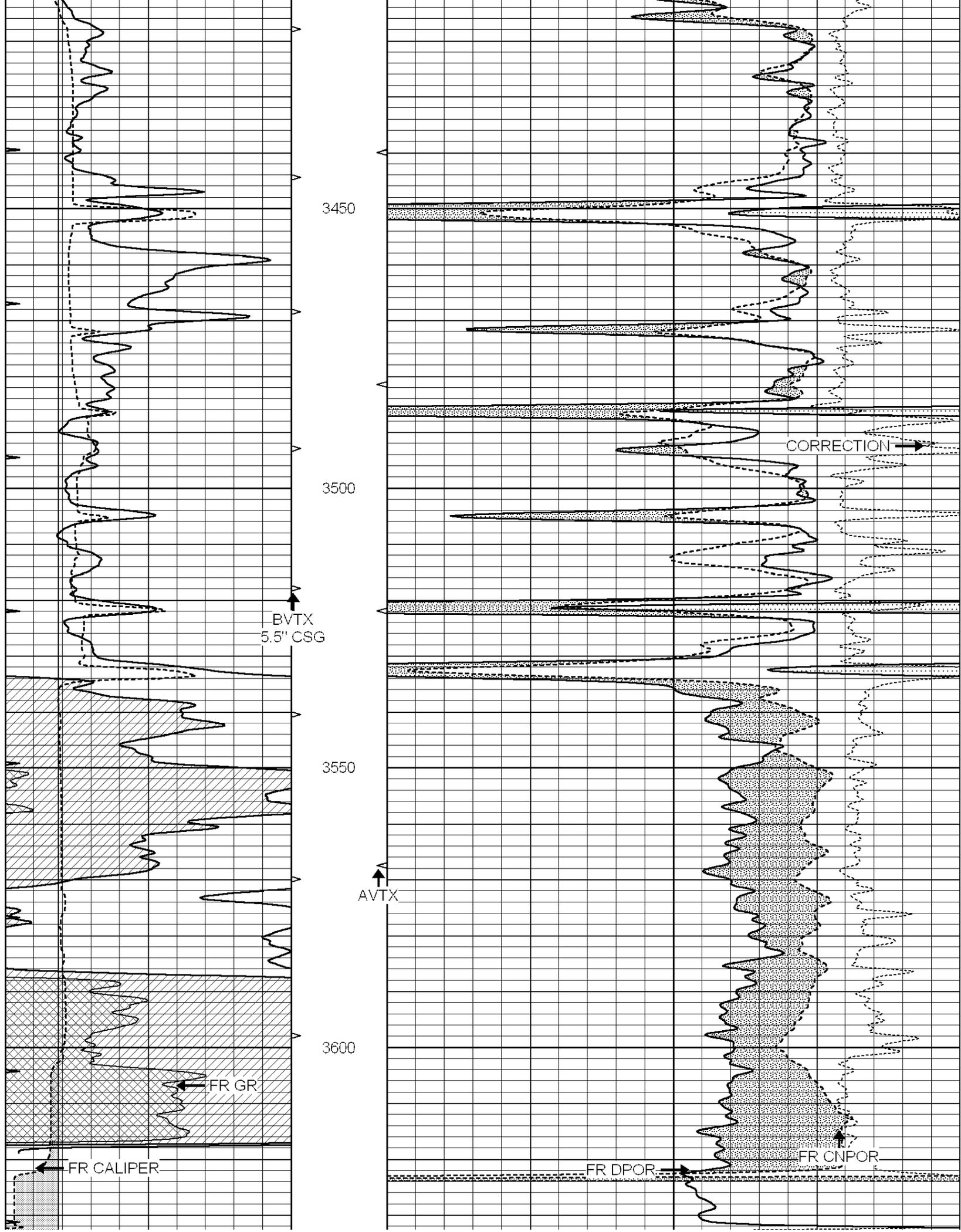


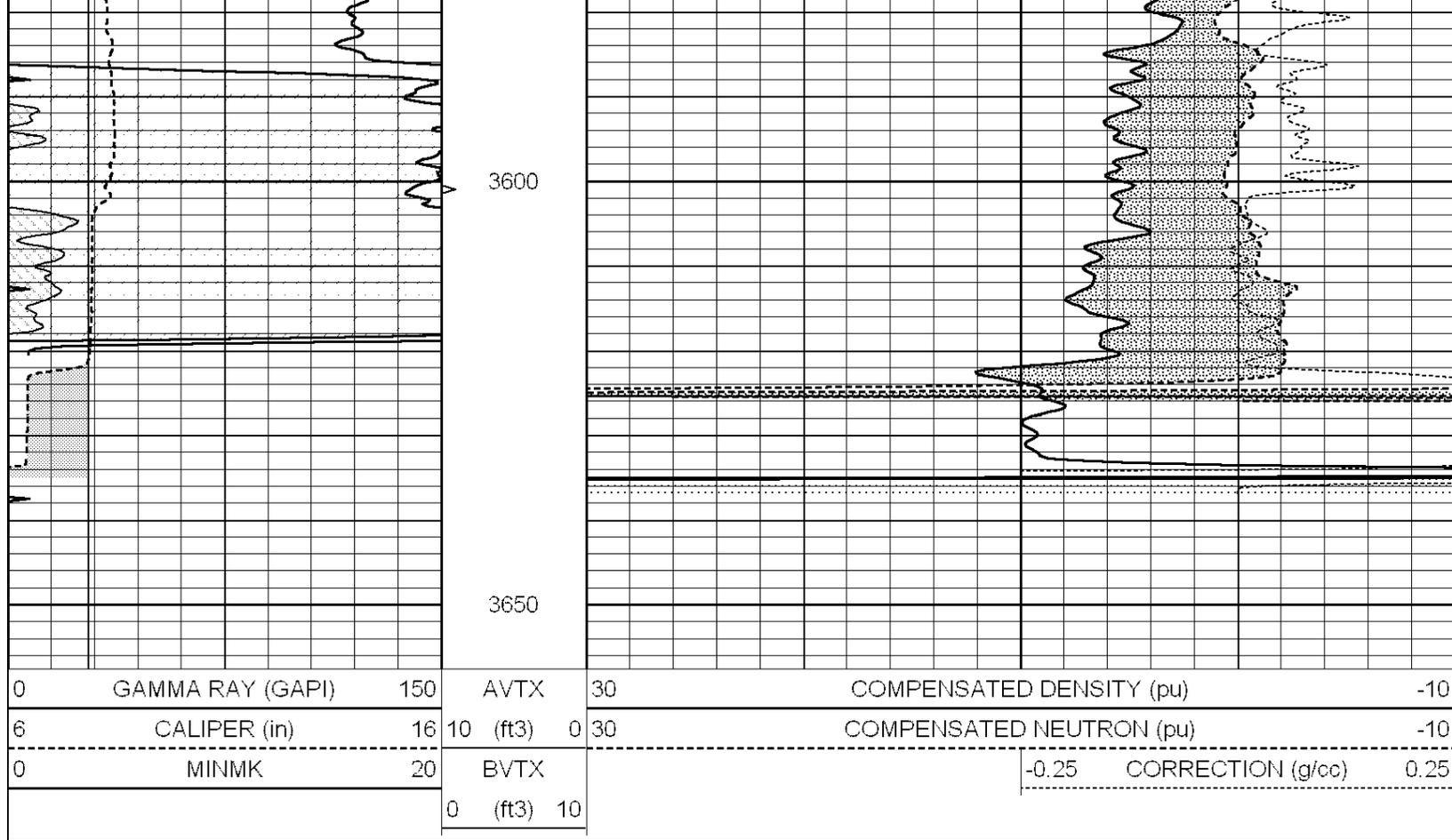












Calibration Report

Database File: 26227ddn.db
 Dataset Pathname: pass3.2
 Dataset Creation: Tue Sep 30 19:33:39 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Tue Sep 02 02:19:29 2014
 Downhole Cal Performed: Tue Sep 02 01:11:23 2014
 After Survey Verification Performed: Tue Sep 02 01:28:35 2014

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.593	0.593	V	0.000	400.000	mmho/m	620.000	-7.000
Medium	0.668	0.668	V	0.000	464.000	mmho/m	630.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.030	0.644	V	0.000	400.000	mmho/m	651.380	-19.739
Medium	0.027	0.815	V	0.000	464.000	mmho/m	588.755	-16.048

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	3353890.000	-304691.000	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	16235500.000	-3735510.000	mmho/m	1.000	0.000
LL3		2.500	V		1400.000	Ohm-m		
		0.022	V		20.000	Ohm-m		
		-7.278	V		4000.000	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		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR5-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Tue Sep 02 02:18:22 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	943.83	576.01	cps
Aluminum	2.600	g/cc	212.01	399.19	cps
Spine Angle = 76.20			Density/Spine Ratio = 0.579		
	Size		Reading		
Small Ring	8.00	in	1.77	V	
Large Ring	14.00	in	2.90	V	

Compensated Neutron Calibration Report

Serial Number: 080620
 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: 46001
 Tool Model: Probe1
 Performed: Tue Sep 02 02:32:49 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2300 GAPI/cps