



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company VINCENT OIL CORPORATION
Well HORNBACK #1-15
Field
County FORD
State KANSAS

Company VINCENT OIL CORPORATION
Well HORNBACK #1-15
Field
County FORD State KANSAS

Location: 900' FNL & 1735' FWL
API #: 15-057-20930-0000
SEC 15 TWP 29S RGE 24W
Permanent Datum GROUND LEVEL Elevation 2581
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services DIL/MEL SON
Elevation K.B. 2591
D.F. 2589
G.L. 2581

Date	4/15/14
Run Number	ONE
Depth Driller	5360
Depth Logger	5359
Bottom Logged Interval	5335
Top Log Interval	4200
Casing Driller	8 5/8" @ 841
Casing Logger	641
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1 / 55
pH / Fluid Loss	10.0 / 9.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.85 @ 79F
Rmt @ Meas. Temp	0.63 @ 79F
Rmc @ Meas. Temp	1.02 @ 79F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	0.52 @ 128F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	128F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JEFF GRONIEWEG
Witnessed By	KENLEBLANC

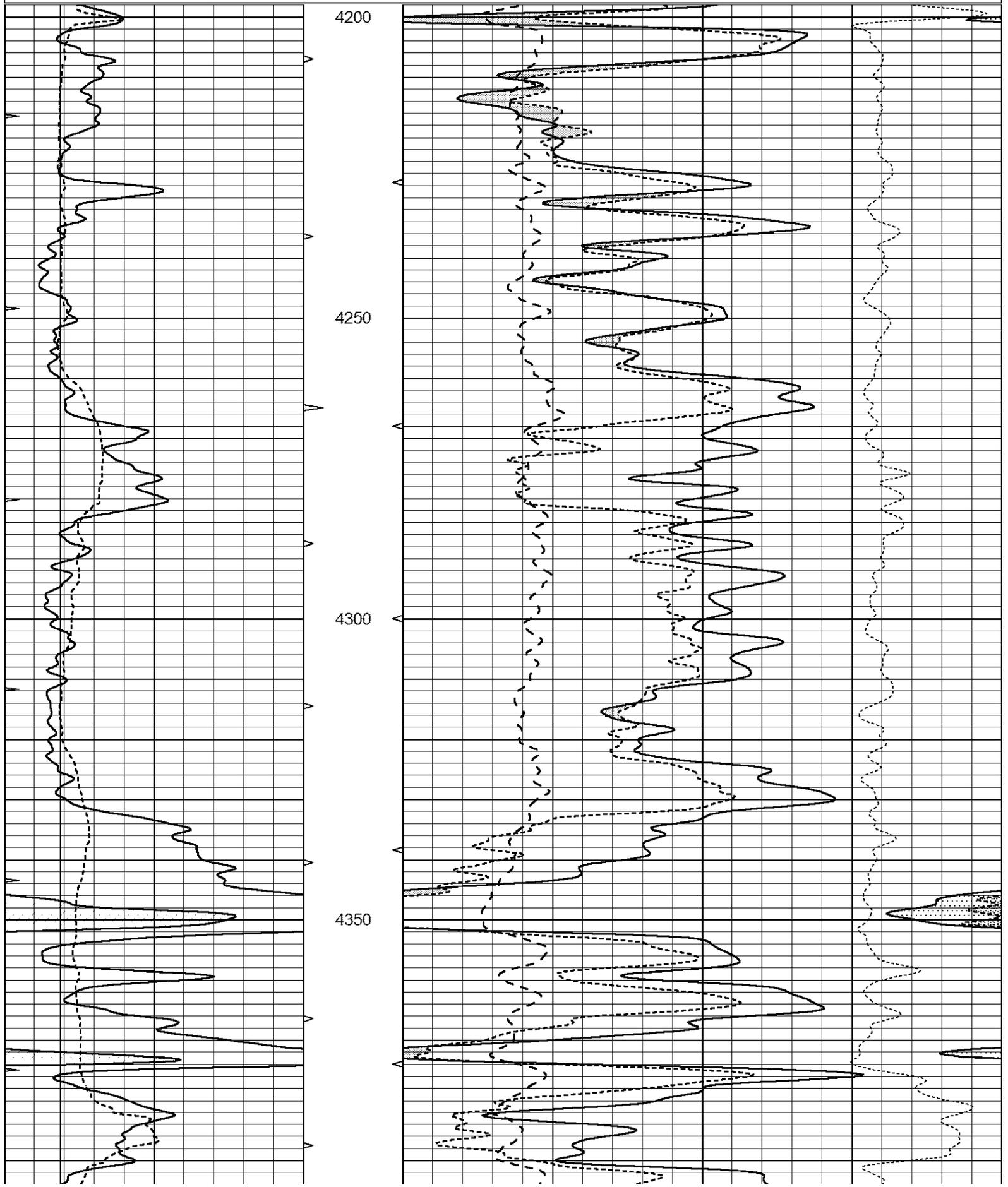
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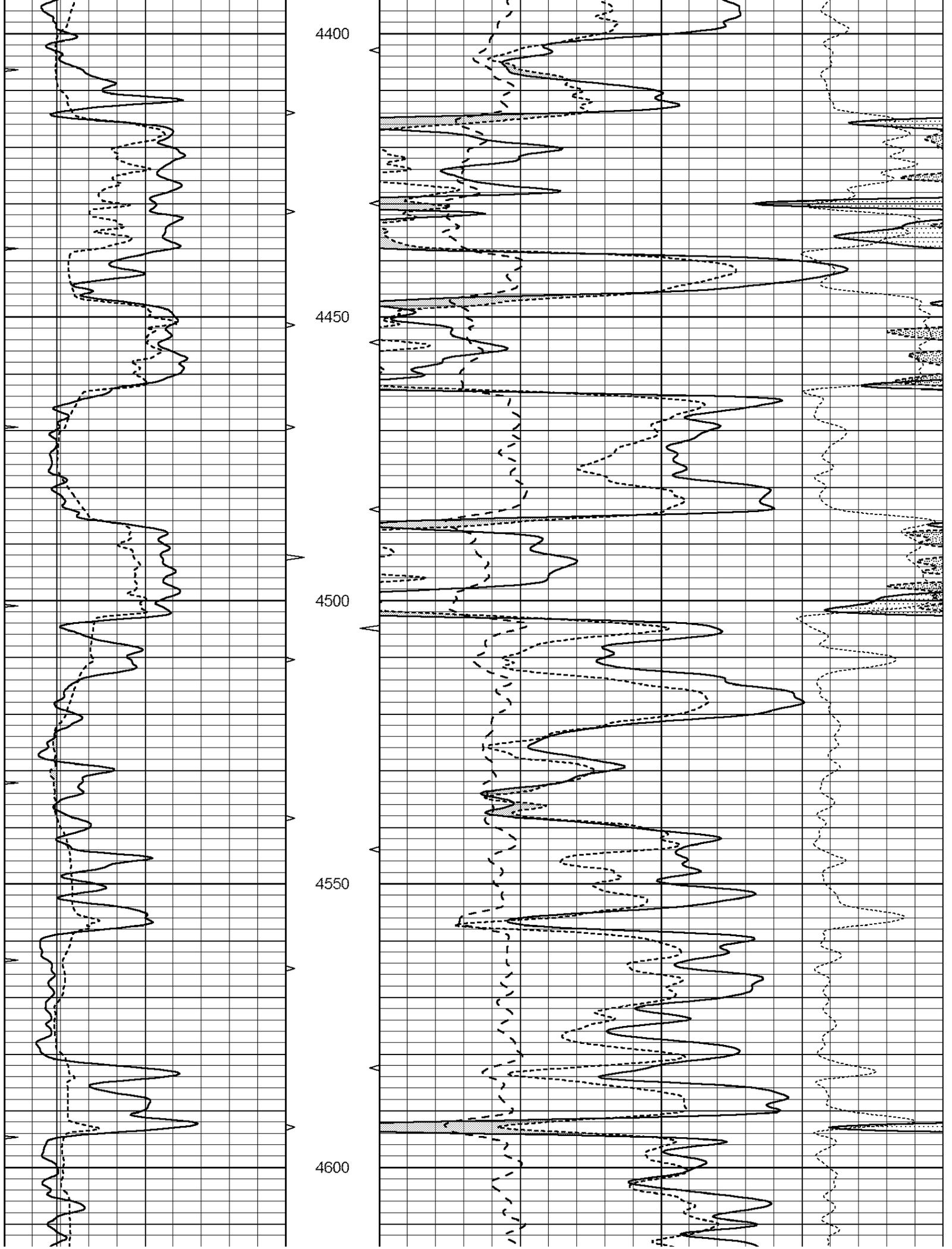
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

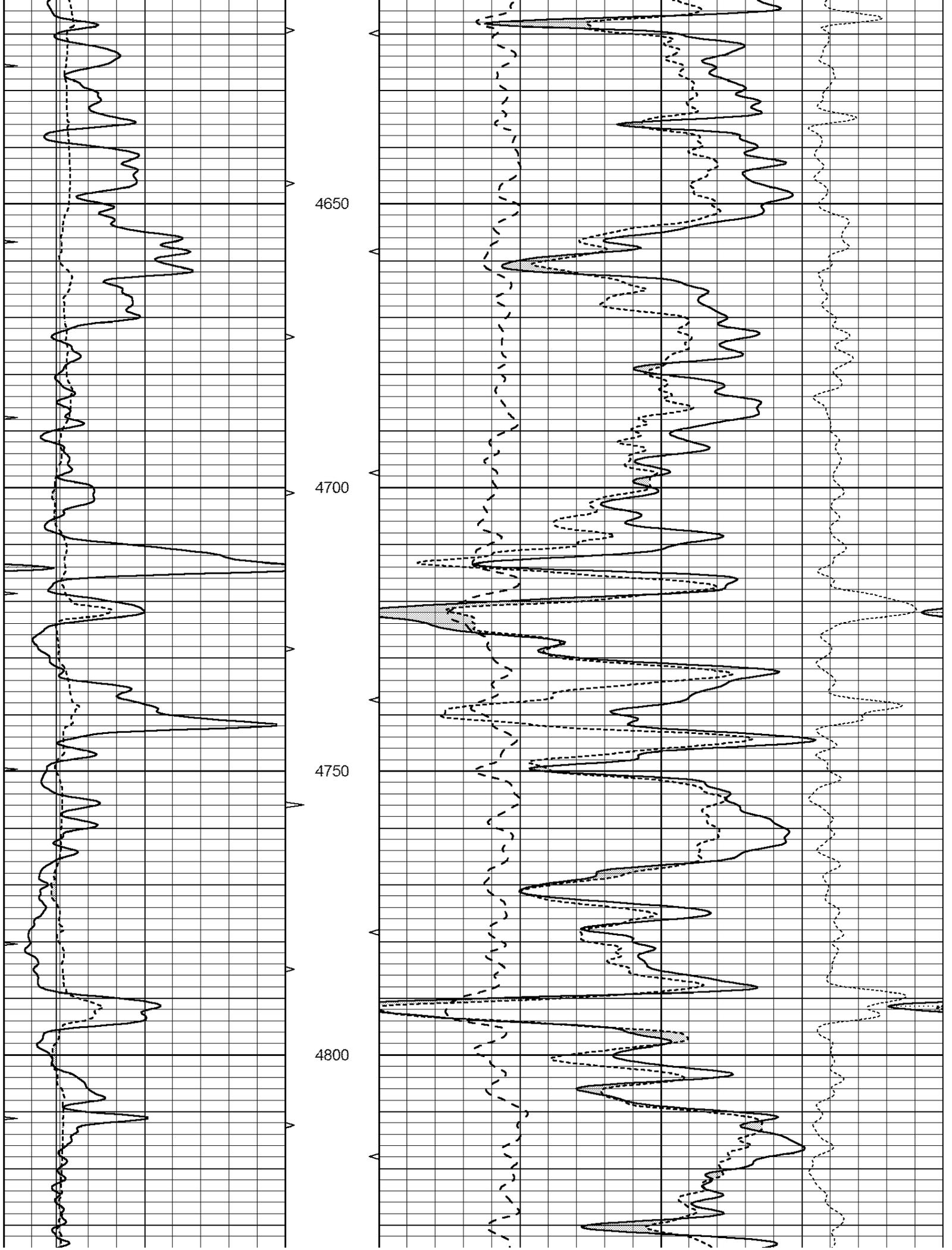
Comments

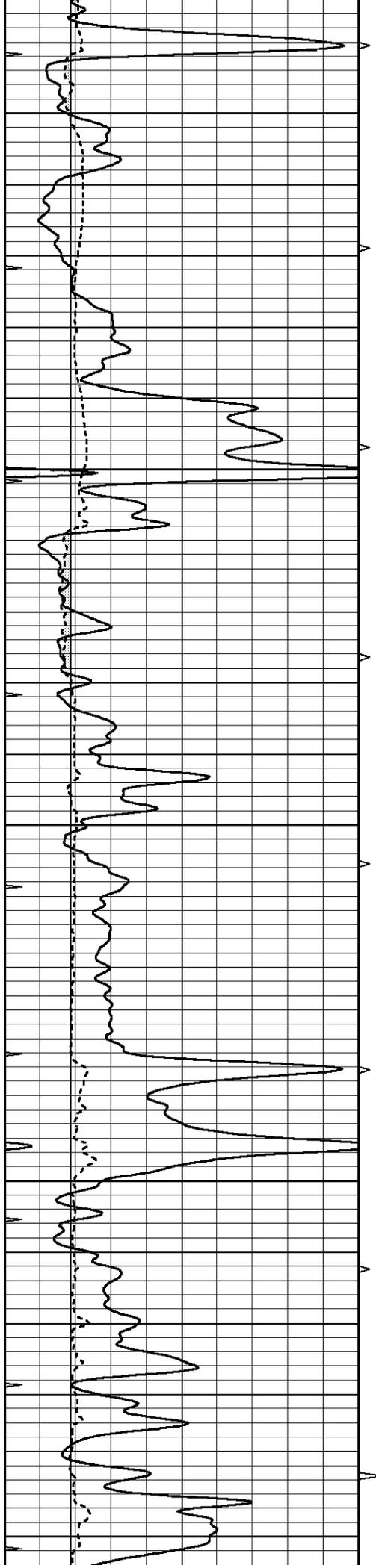
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
DODGE CITY, KS - SOUTH TO SADDLE RD - 8 MILES SOUTH TO WINDY RD
4 1/2 MILES EAST - SOUTH INTO

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					









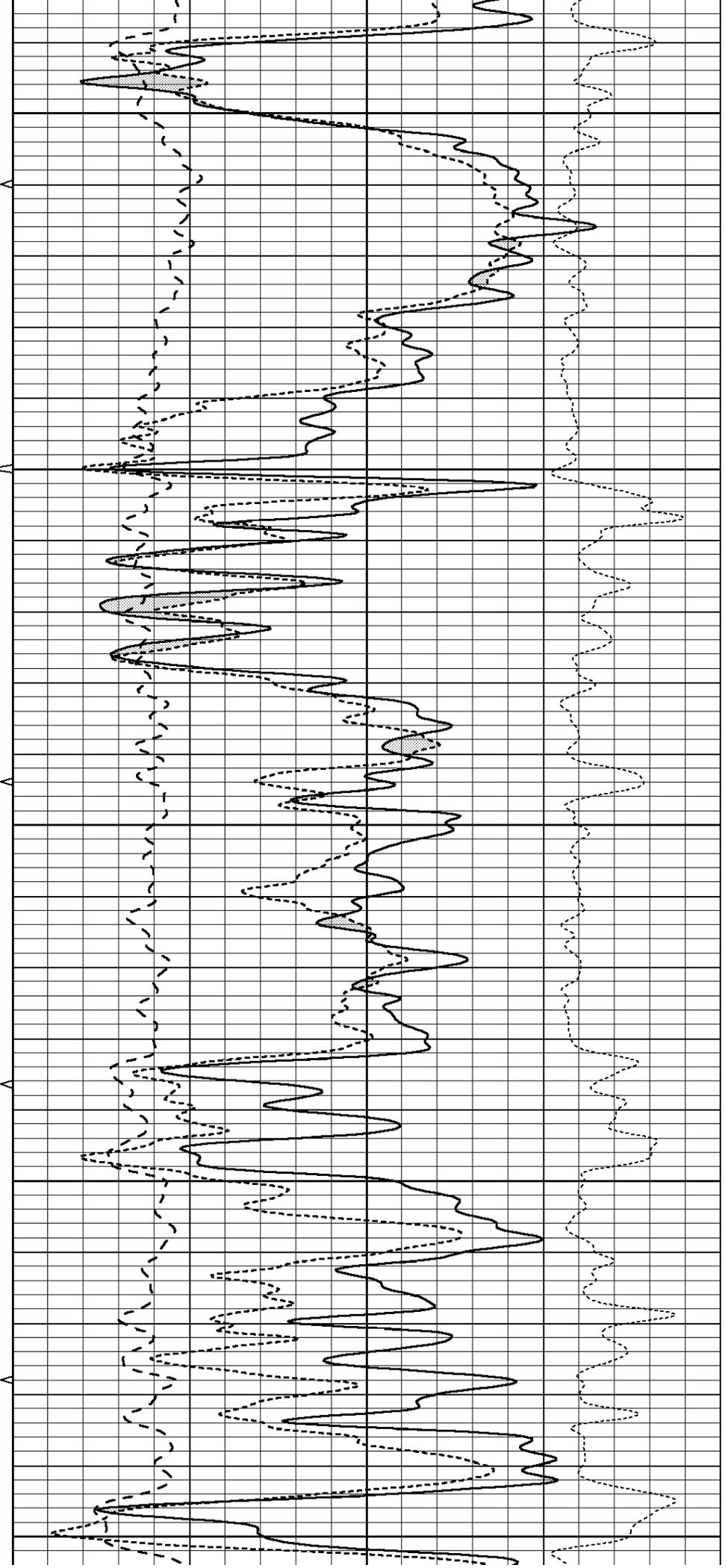
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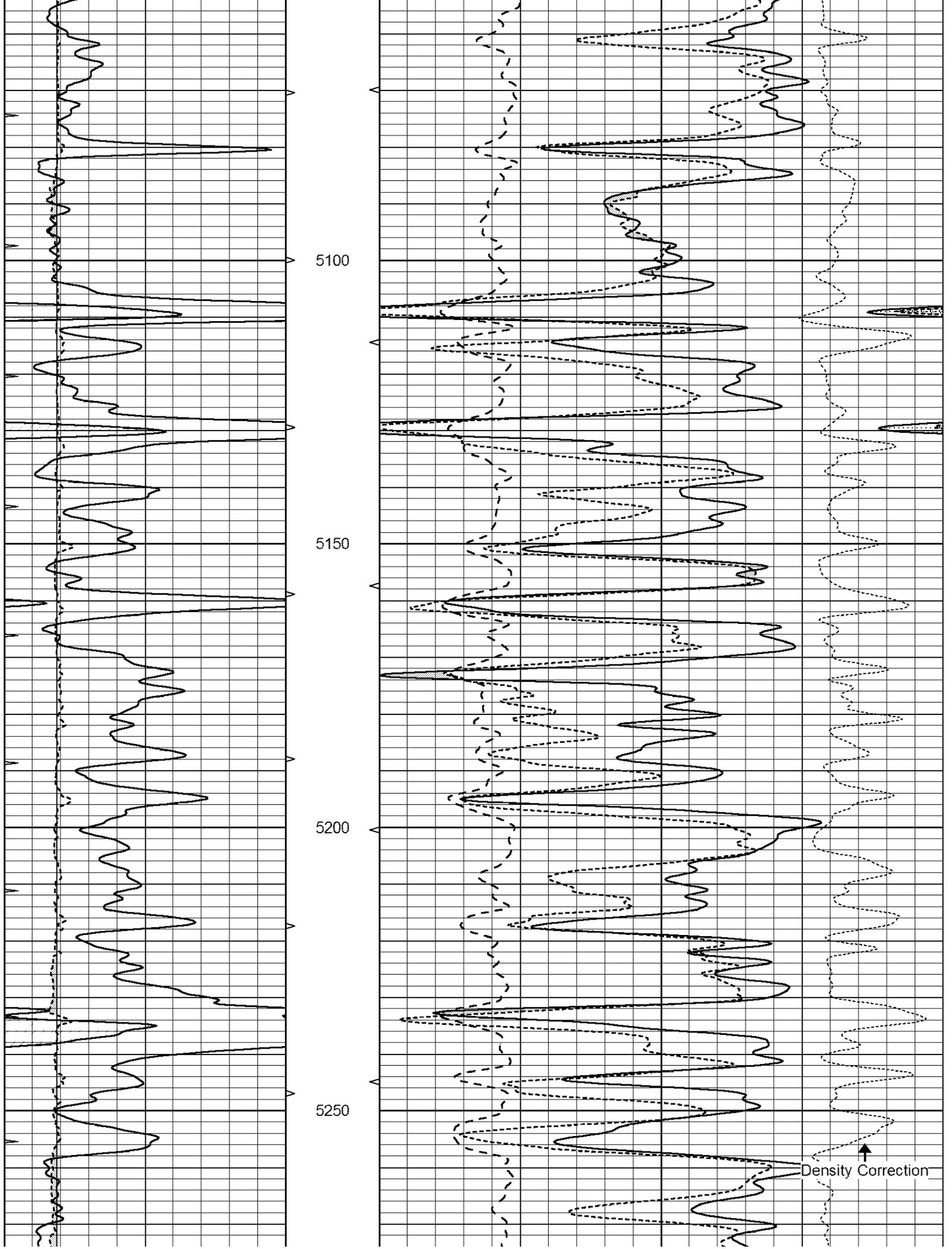
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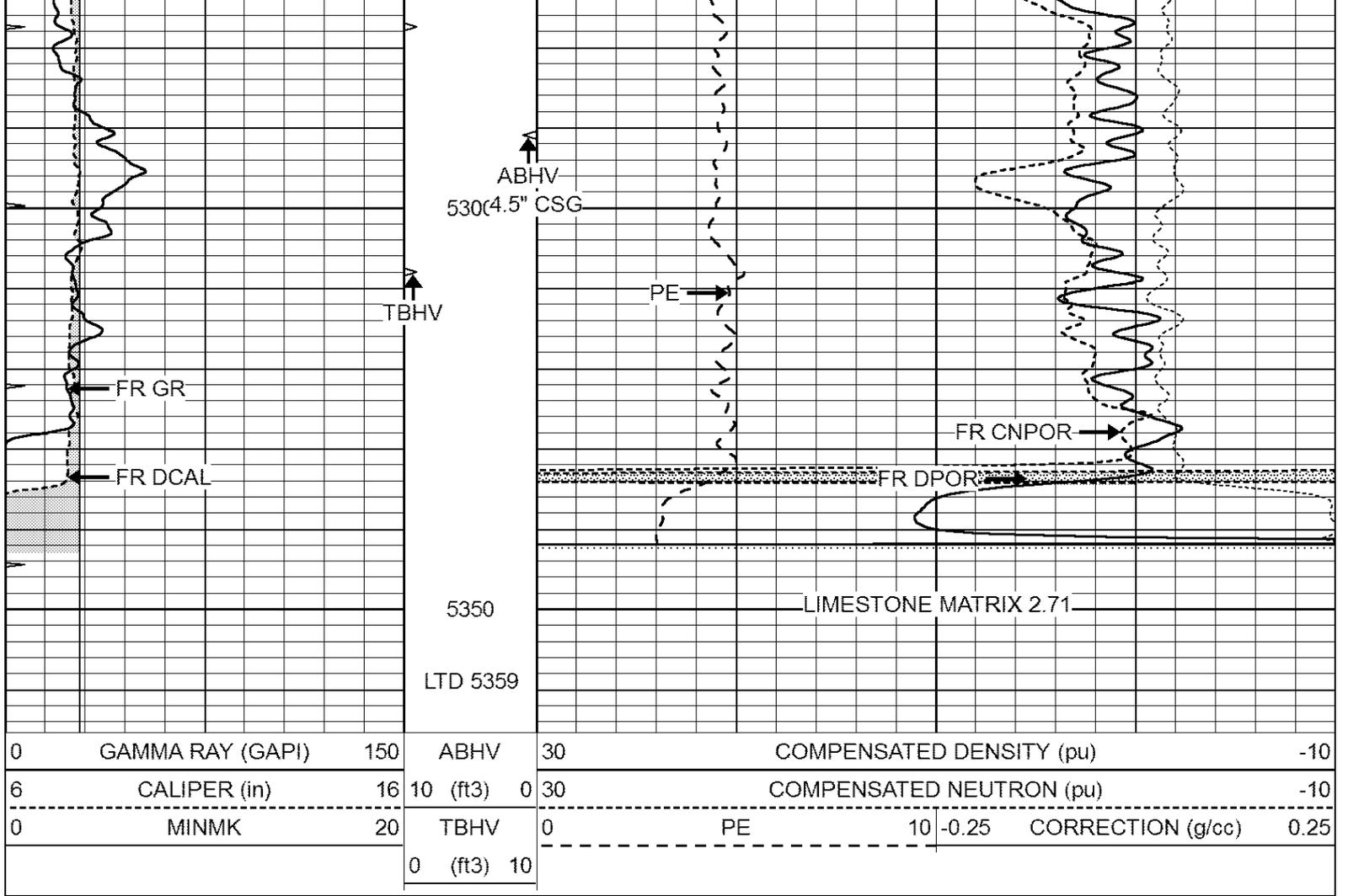
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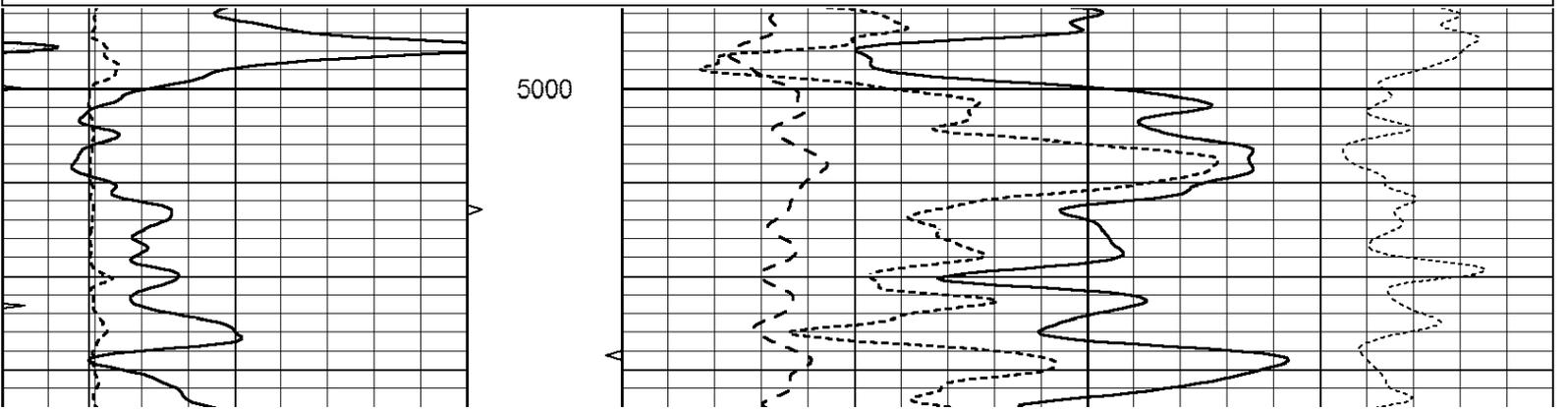


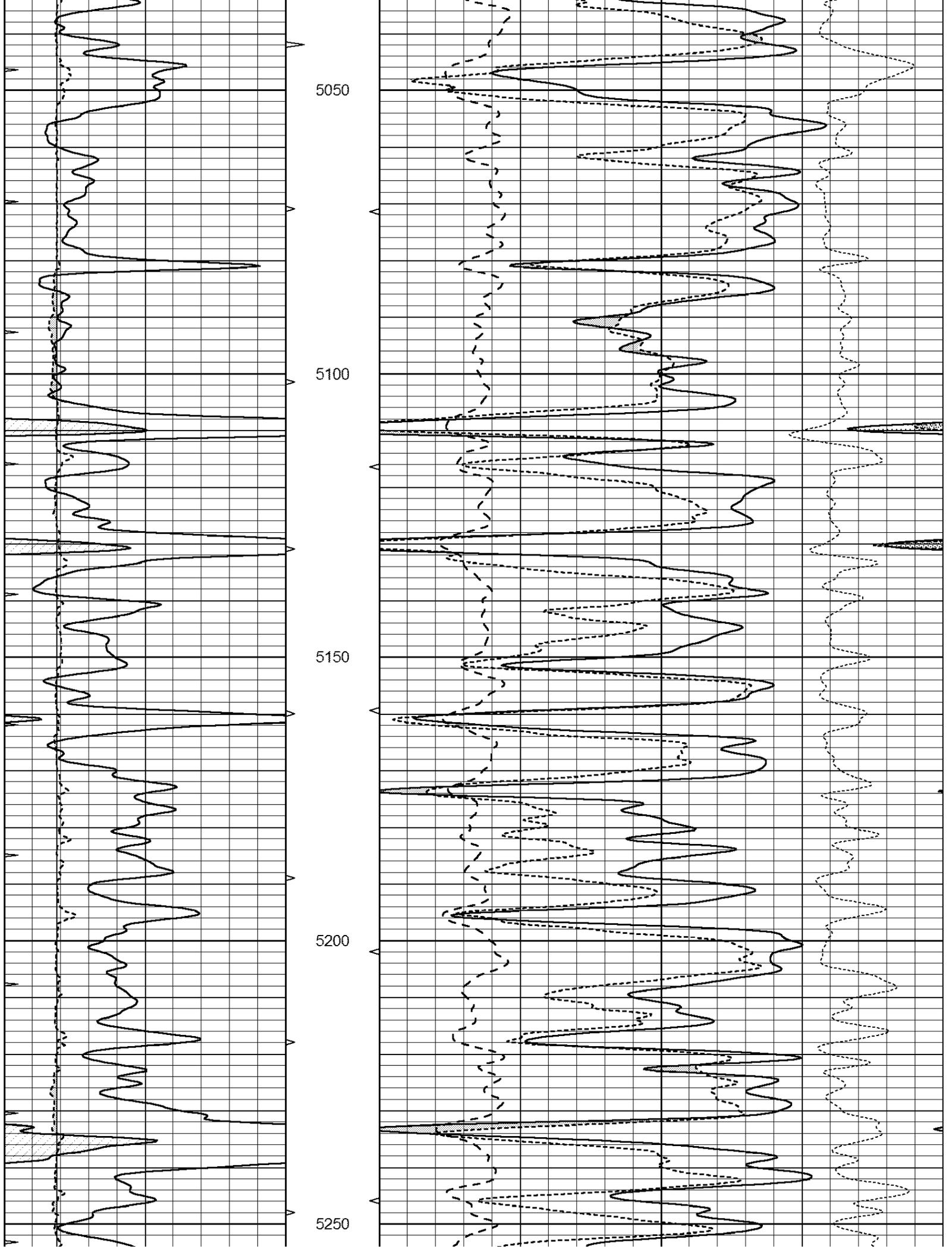


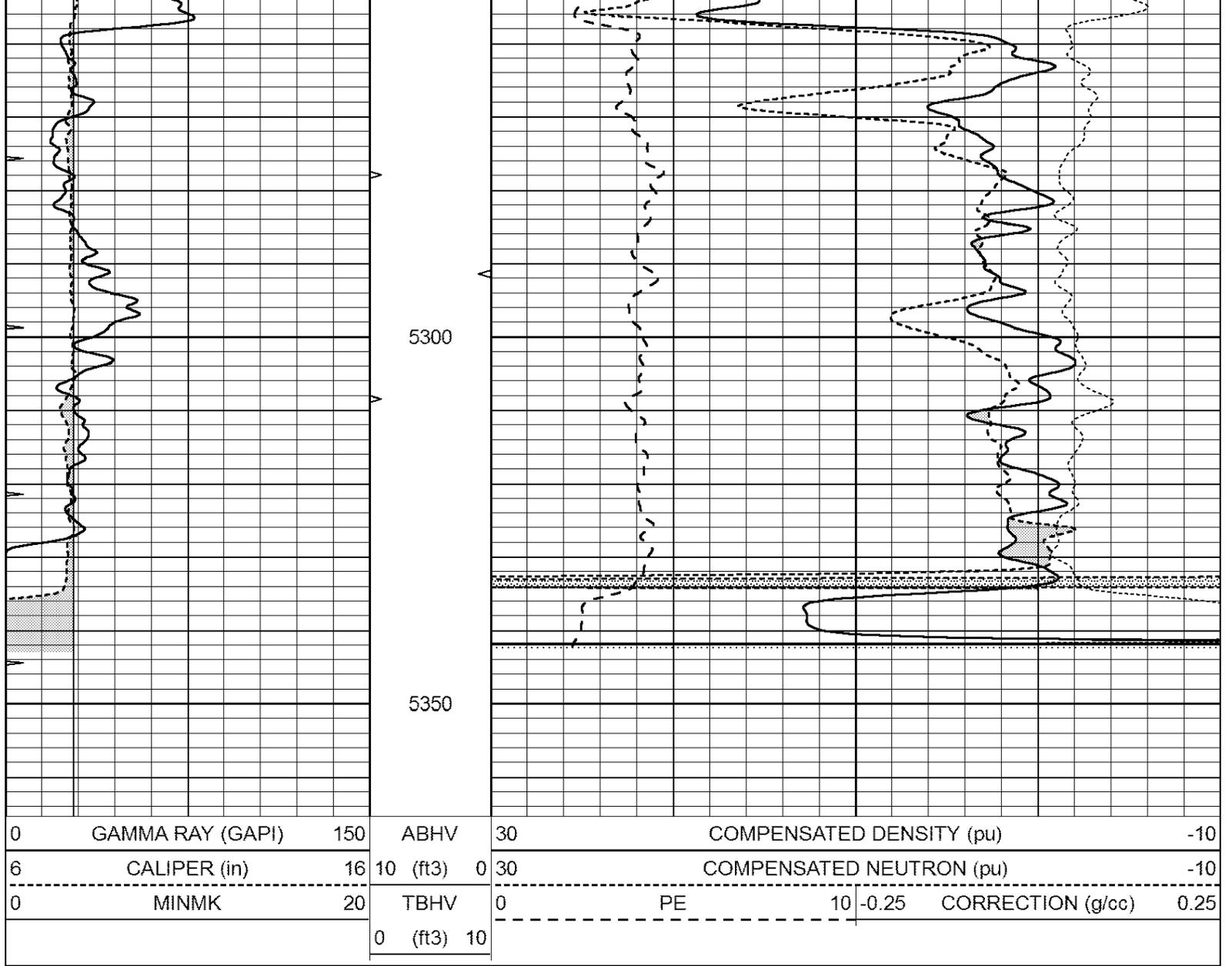
REPEAT SECTION

Database File: 24226pe.db
 Dataset Pathname: pass2.4.2
 Presentation Format: _ldt_neu
 Dataset Creation: Tue Apr 15 13:22:23 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					







Calibration Report

Database File: 24226pe.db
 Dataset Pathname: pass3.2.3
 Dataset Creation: Tue Apr 15 13:09:57 2014 by Calc Open-Cased 090629

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

Loop:	Readings			V	References		mmho/m	Results	
	Air	Loop			Air	Loop		m	b
Deep	0.015	0.648		0.000	400.000	632.616	-9.730		
Medium	0.029	0.796		0.000	464.000	605.049	-17.680		
Internal:	Zero			V	Cal		mmho/m	Results	
Deep	0.017	0.657			0.000	400.000		625.153	-10.619
Medium	0.016	0.757		0.000	464.000	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		
		-7.200	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		

Litho Density Calibration Report
Serial: 001 Model: PRB

Master Calibration		Performed Thu Sep 17 09:57:21 2009					
	Background	Magnesium	Aluminum	Sandstone			
Window 1	2056.0	9796.8	3673.1	10821.3	cps		
Window 2	1920.0	8541.1	3303.5	9307.2	cps		
Window 3	1563.1	4735.7	2212.8	5017.5	cps		
Window 4	466.0	466.1	465.6	471.5	cps		
Long Space	0.0	6621.1	1383.5	7387.2	cps		
Short Space	2.5	2361.7	1523.2	2534.0	cps		
Rho		1.7100	2.5900	1.3800	g/cc		
Pe		0.0000	2.5700	1.5500			
Rib Angle	: 44.4	Rib Slope	: 0.978	Density/Spine Ratio	: 0.541		
Spine Angle	: 74.4	Spine Slope	: 3.570	Spine Intercept	: -18.9		

Before Survey Verification		Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0	0.0	cps	
Window 2	0.0	0.0	0.0	0.0	0.0	cps	
Window 3	0.0	0.0	0.0	0.0	0.0	cps	
Window 4	0.0	0.0	0.0	0.0	0.0	cps	
Long Space	0.0	0.0	0.0	0.0	0.0	cps	
Short Space	0.0	0.0	0.0	0.0	0.0	cps	
Measured Rho		0.0000	0.0000	0.0000	0.0000	g/cc	
Measured Correction		0.0000	0.0000	0.0000	0.0000	g/cc	
Measured Pe			0.0000	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	0.0	cps	
Window 2	0.0	0.0	0.0	0.0	0.0	cps	
Window 3	0.0	0.0	0.0	0.0	0.0	cps	
Window 4	0.0	0.0	0.0	0.0	0.0	cps	
Long Space	0.0	0.0	0.0	0.0	0.0	cps	
Short Space	0.0	0.0	0.0	0.0	0.0	cps	
Measured Rho		0.0000	0.0000	0.0000	0.0000	g/cc	
Measured Correction		0.0000	0.0000	0.0000	0.0000	g/cc	
Measured Pe			0.0000	0.0000	0.0000		

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

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: GR6
 Tool Model: OPEN
 Performed: Fri Nov 29 08:34:37 2013

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 276.0 cps

Sensitivity: 0.6035 GAPI/cps