



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company		ABERCROMBIE ENERGY, LLC.	
Well		BRYANT #1-35	
Field		WILDCAT	
County		HASKELL	
State		KANSAS	
Location:		API # : 15-081-22038-0000 330' FNL & 2310' FEL NW - NW - NE	
Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL KELLY BUSHING 10' A.G.L. KELLY BUSHING	
SEC 35 TWP 29S RGE 31W		Other Services DIL/MEL SONIC	
Elevation		2842	
K.B. 2852 D.F. 2850 G.L. 2842			
Date	11/5/13		
Run Number	ONE		
Depth Driller	5650		
Depth Logger	5650		
Bottom Logged Interval	5626		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 1618'		
Casing Logger	1618'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.25/52	CHLORIDES 3600 PPM	
pH / Fluid Loss	10.0/9.2		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	1.00 @ 76F		
Rmf @ Meas. Temp	0.75 @ 76F		
Rmc @ Meas. Temp	1.20 @ 76F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.58 @ 131F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	131F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	KENT CRISLER		

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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.

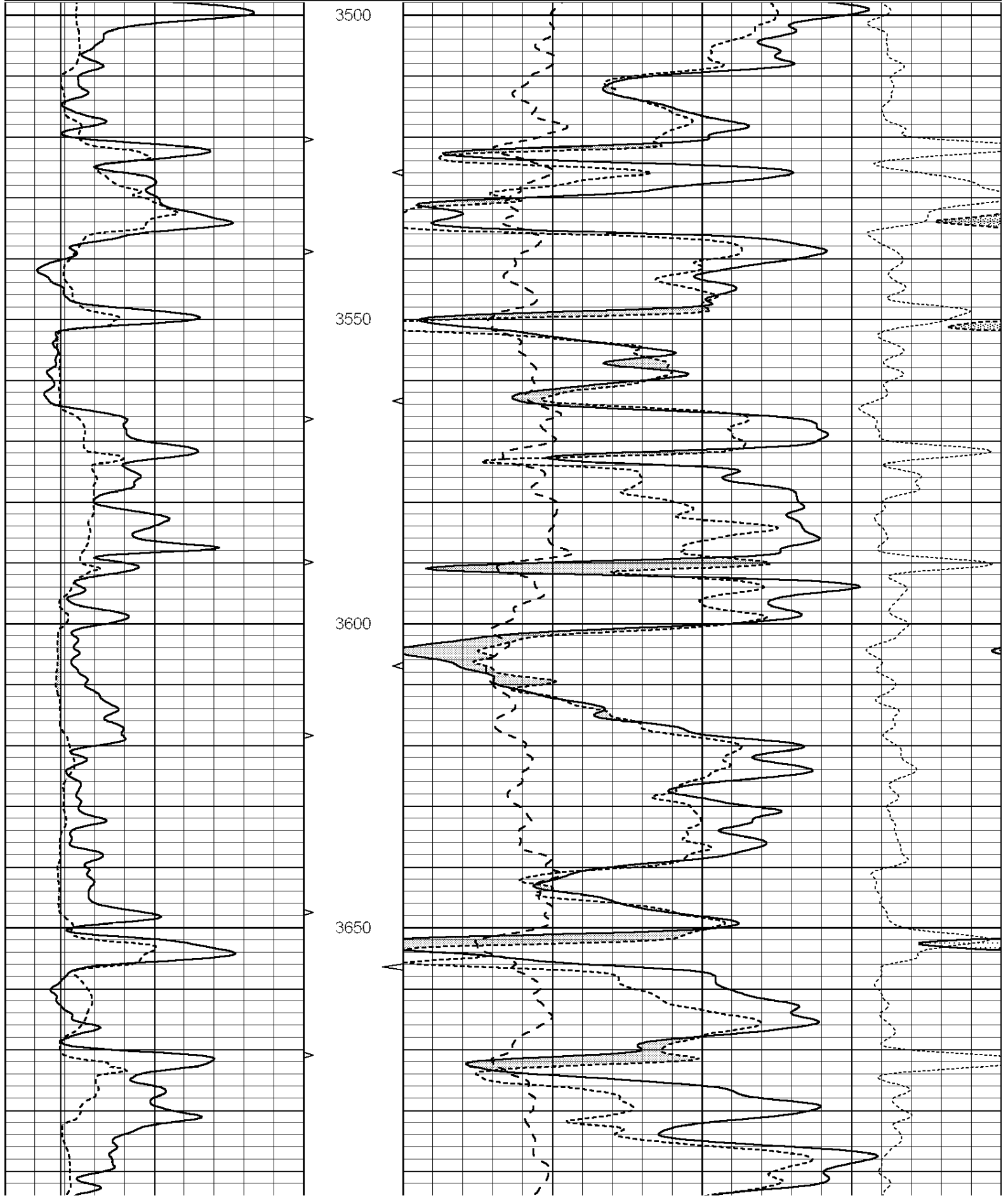
Comments

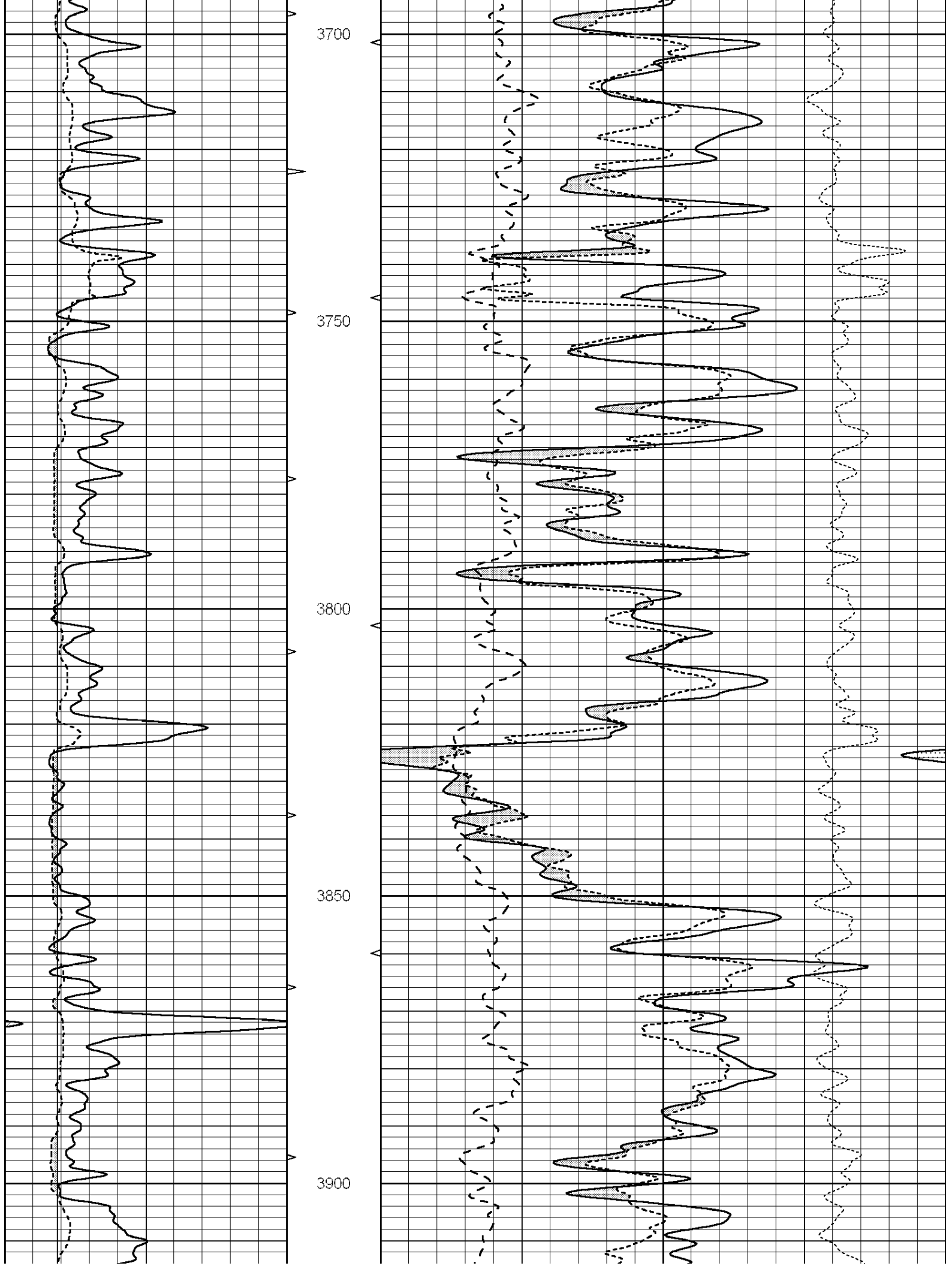
THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

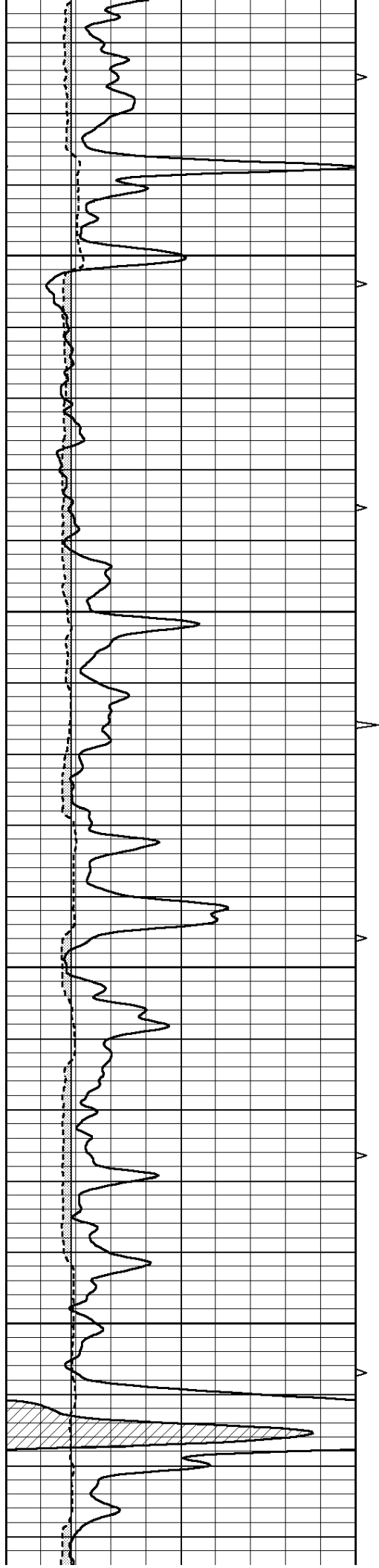
DIRECTIONS:

COPELAND, KS - SOUTH 4 1/2 MILES ON RD 2 TO RD A - 2 MILES WEST TO RD XX
1 MILE NORTH - 1/2 MILE WEST - SOUTH INTO

Charted by:		Depth in Feet scaled 1:2.15				
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10
			0 (ft3) 10	-0.25	CORRECTION (g/cc)	0.25





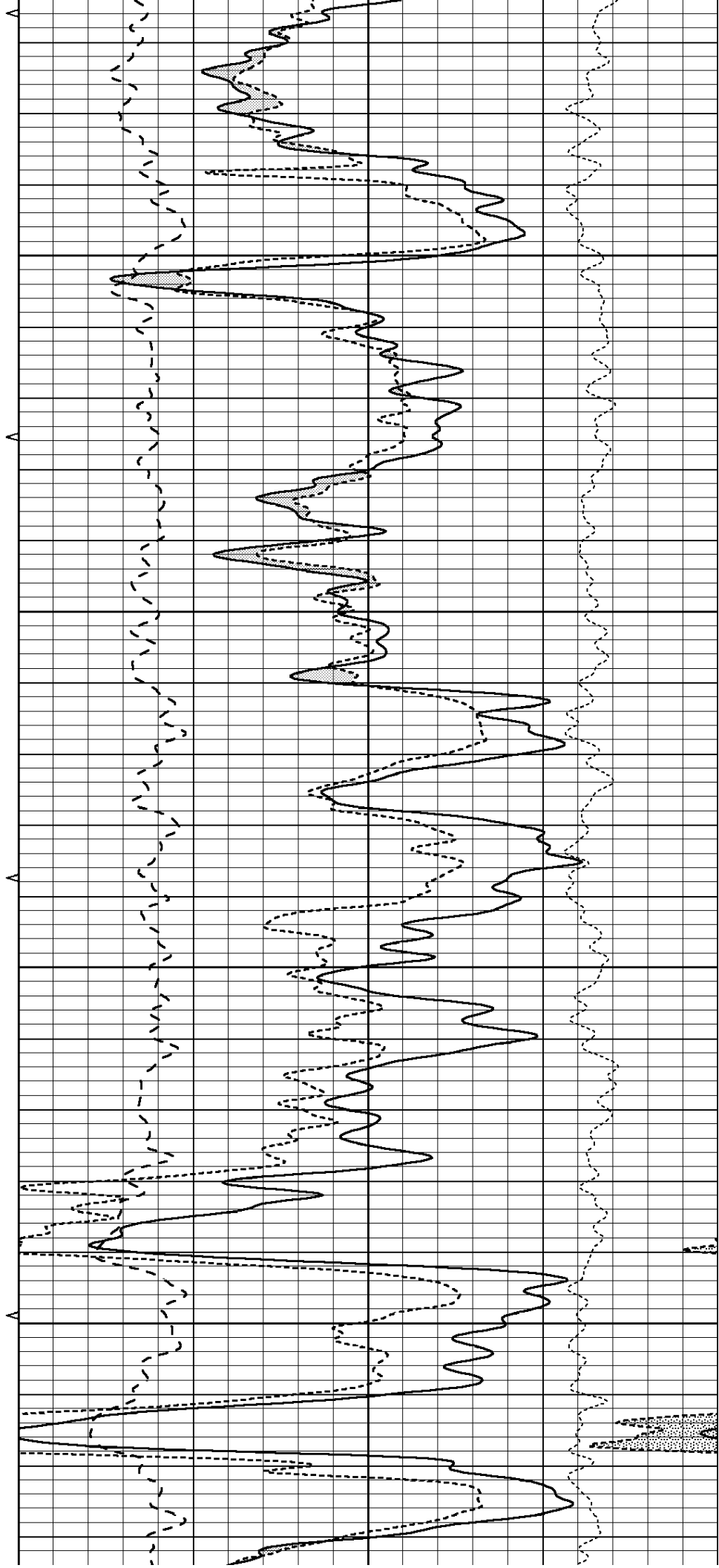


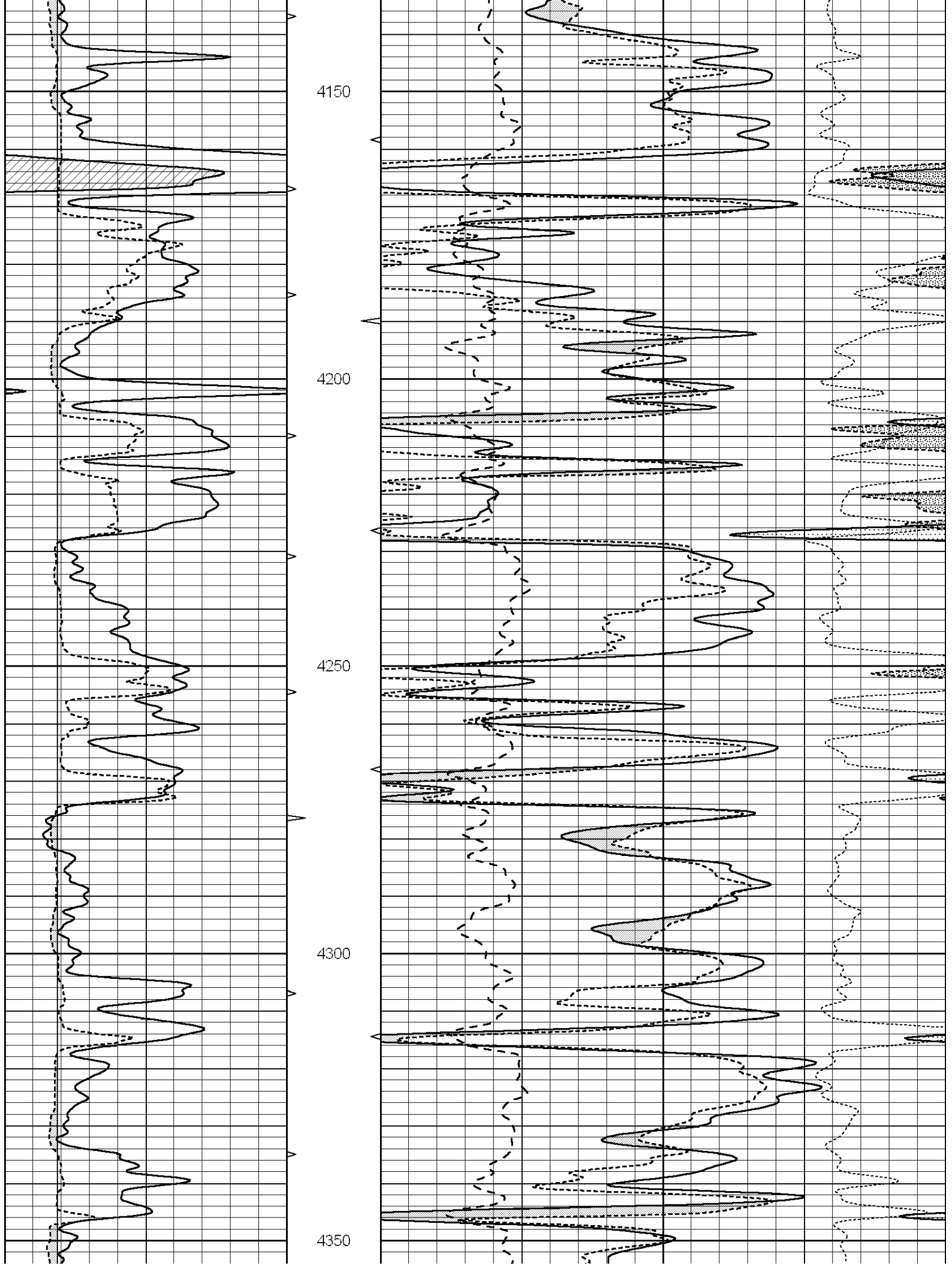
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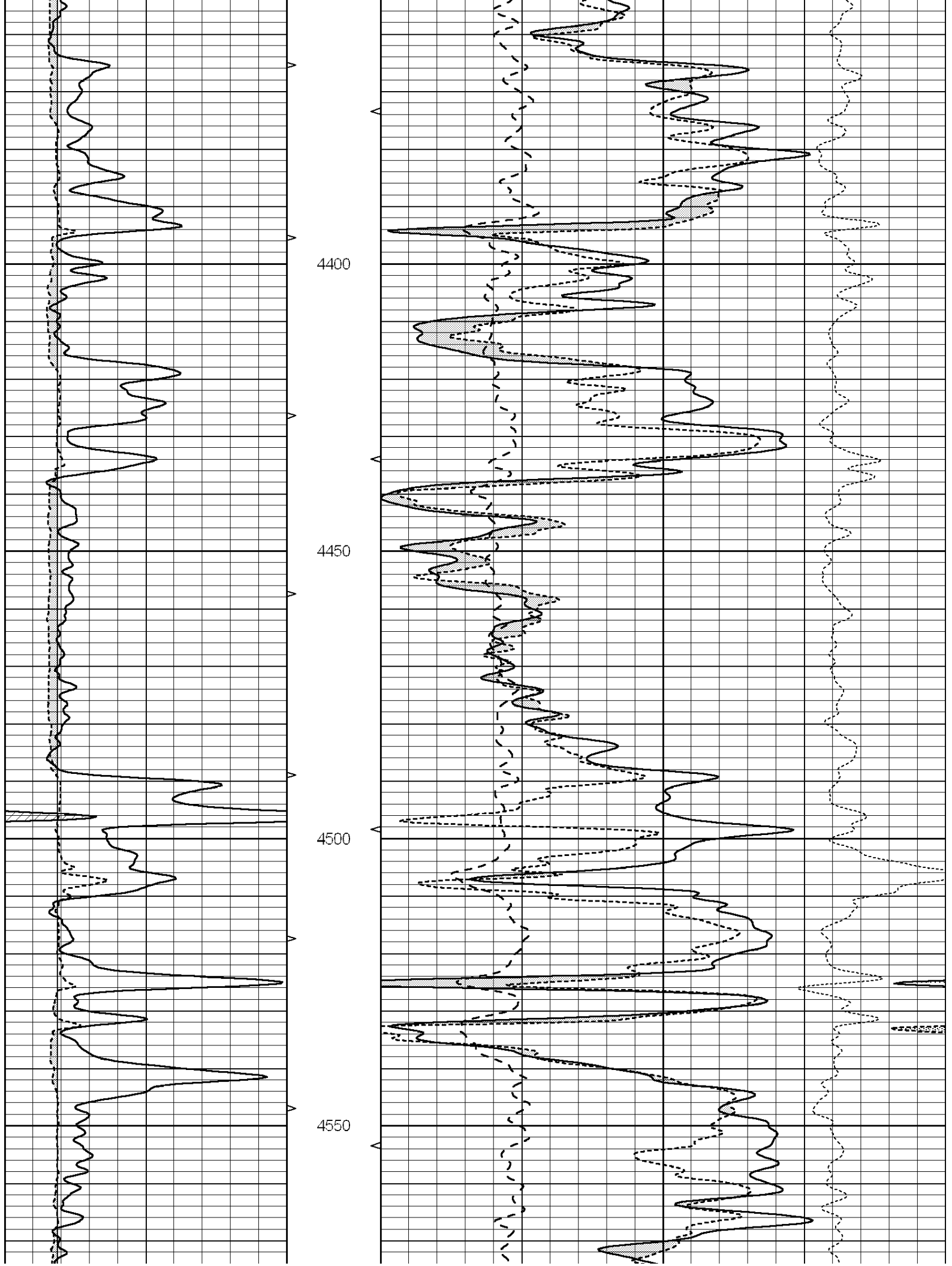
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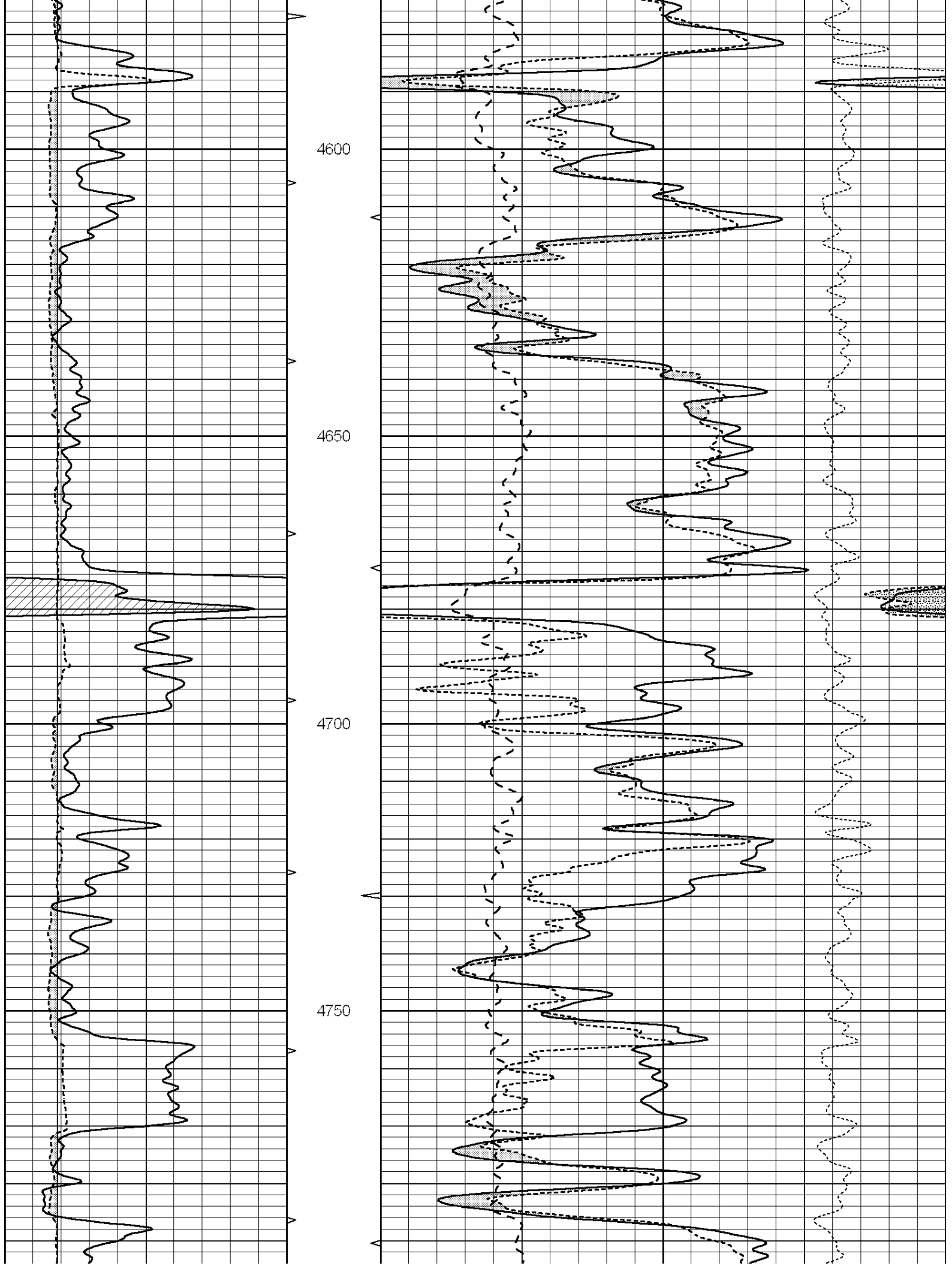
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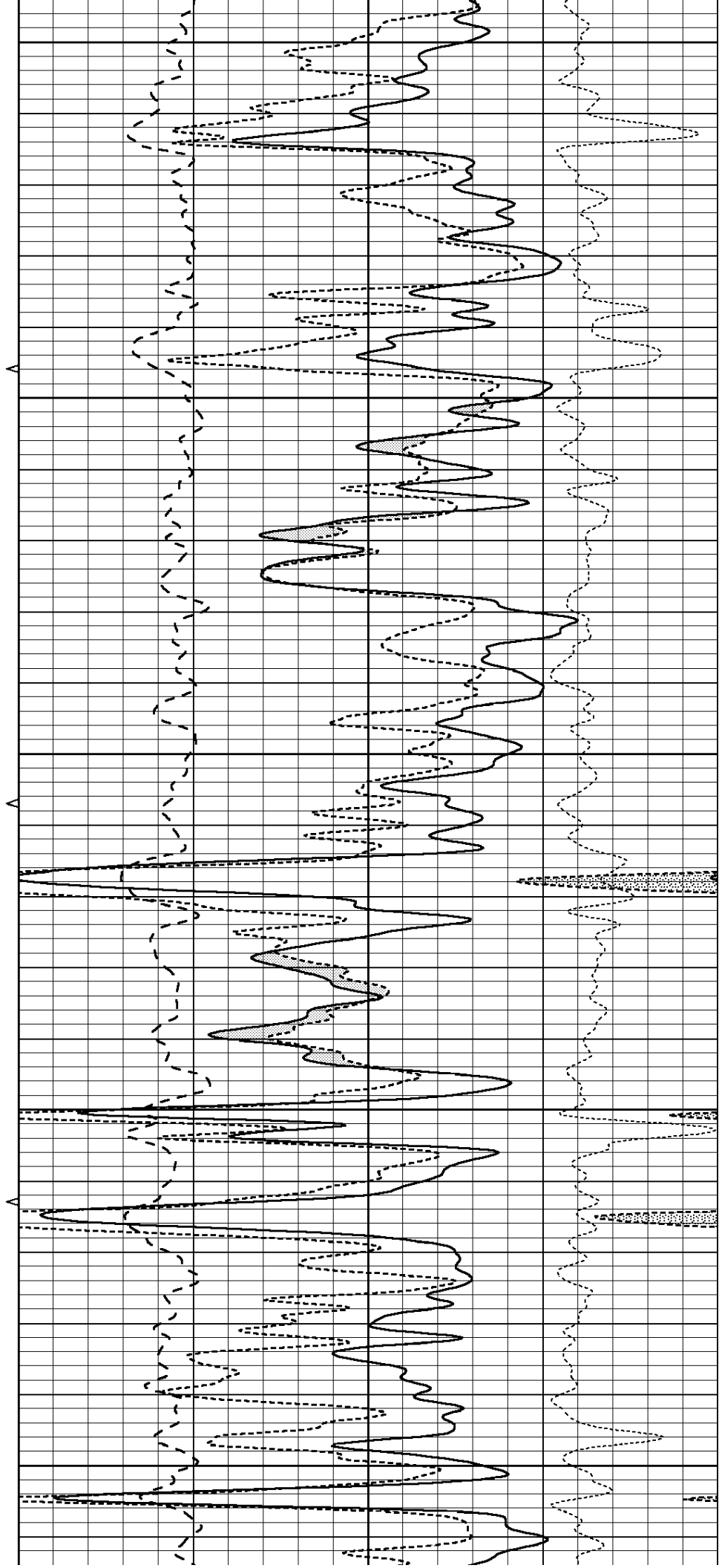
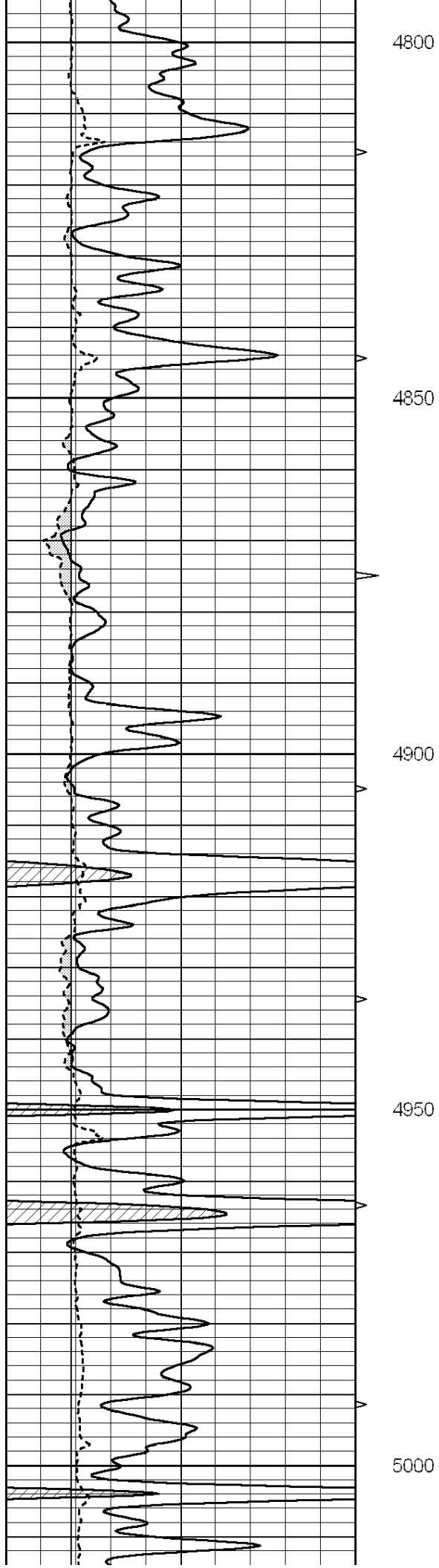
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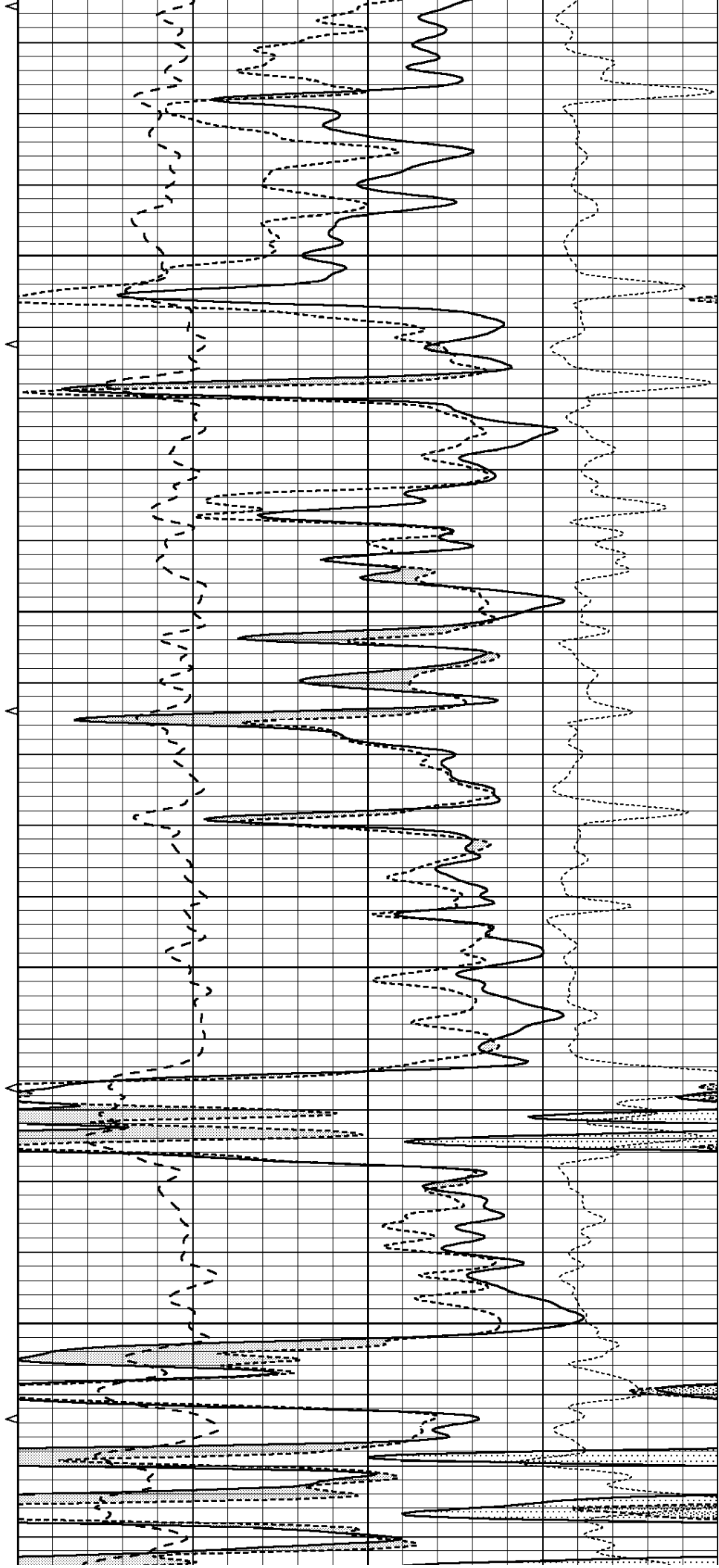
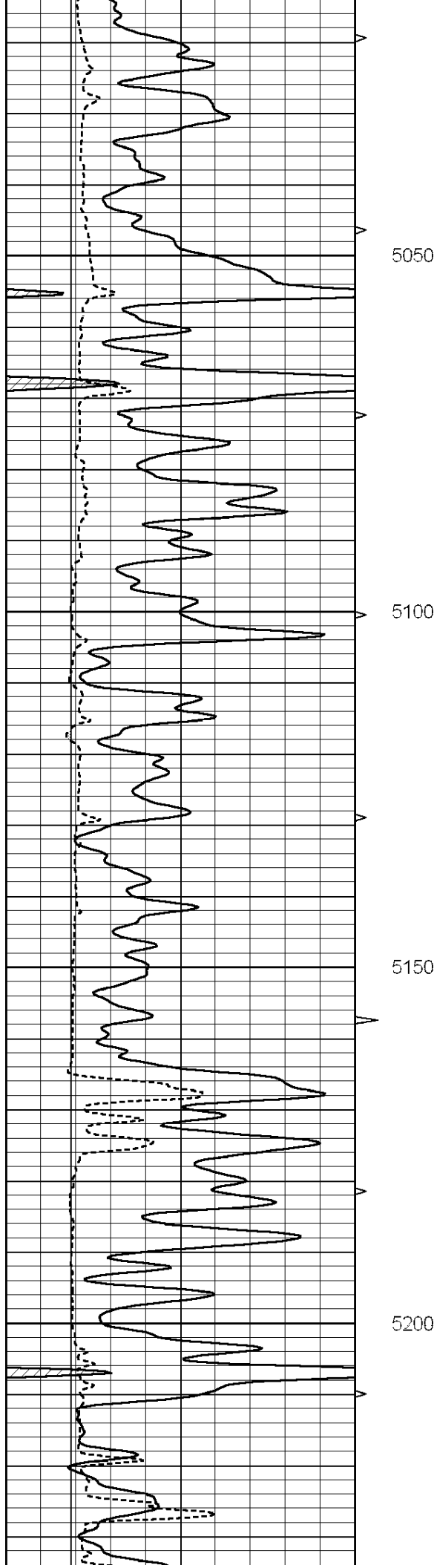


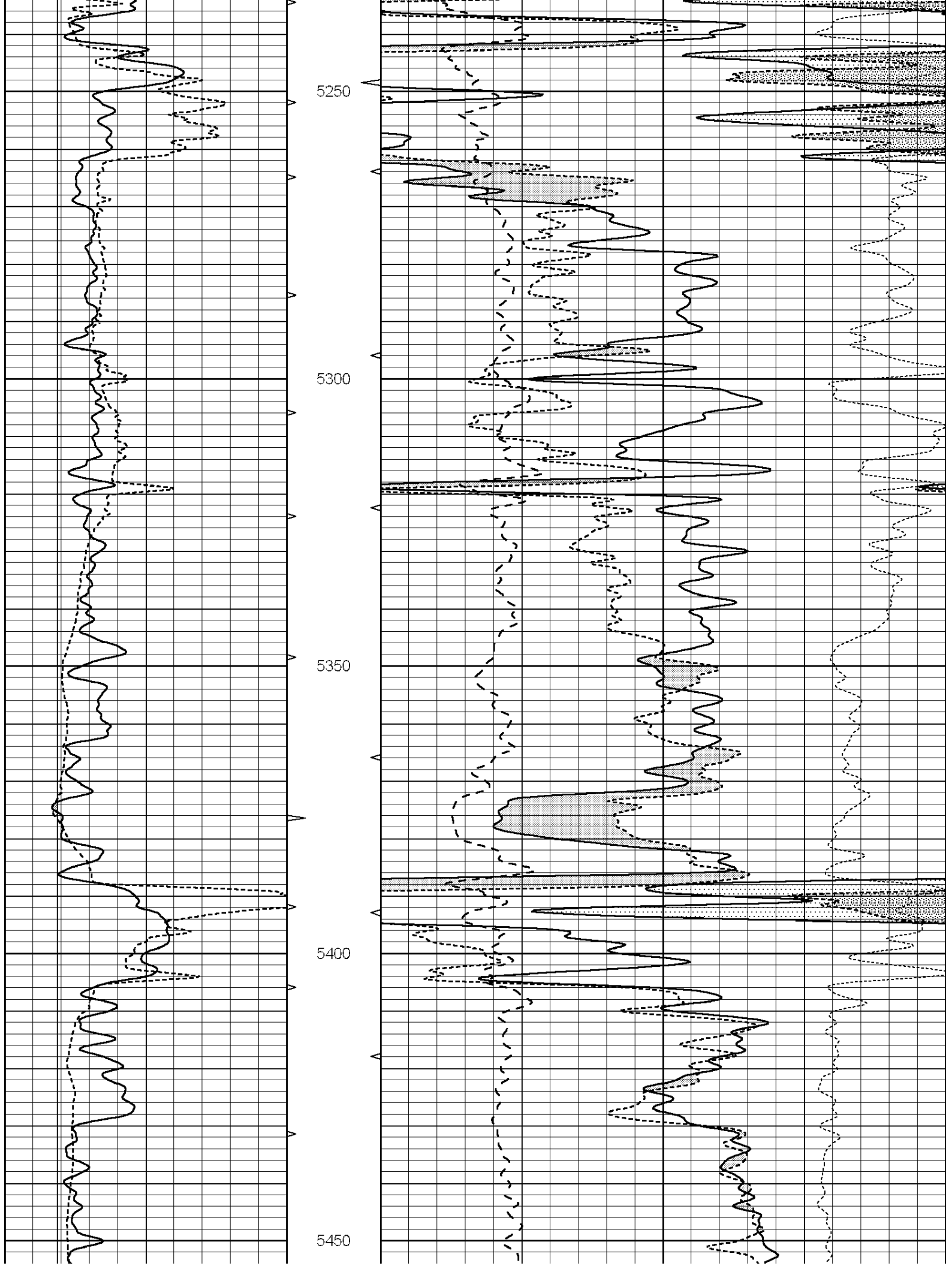


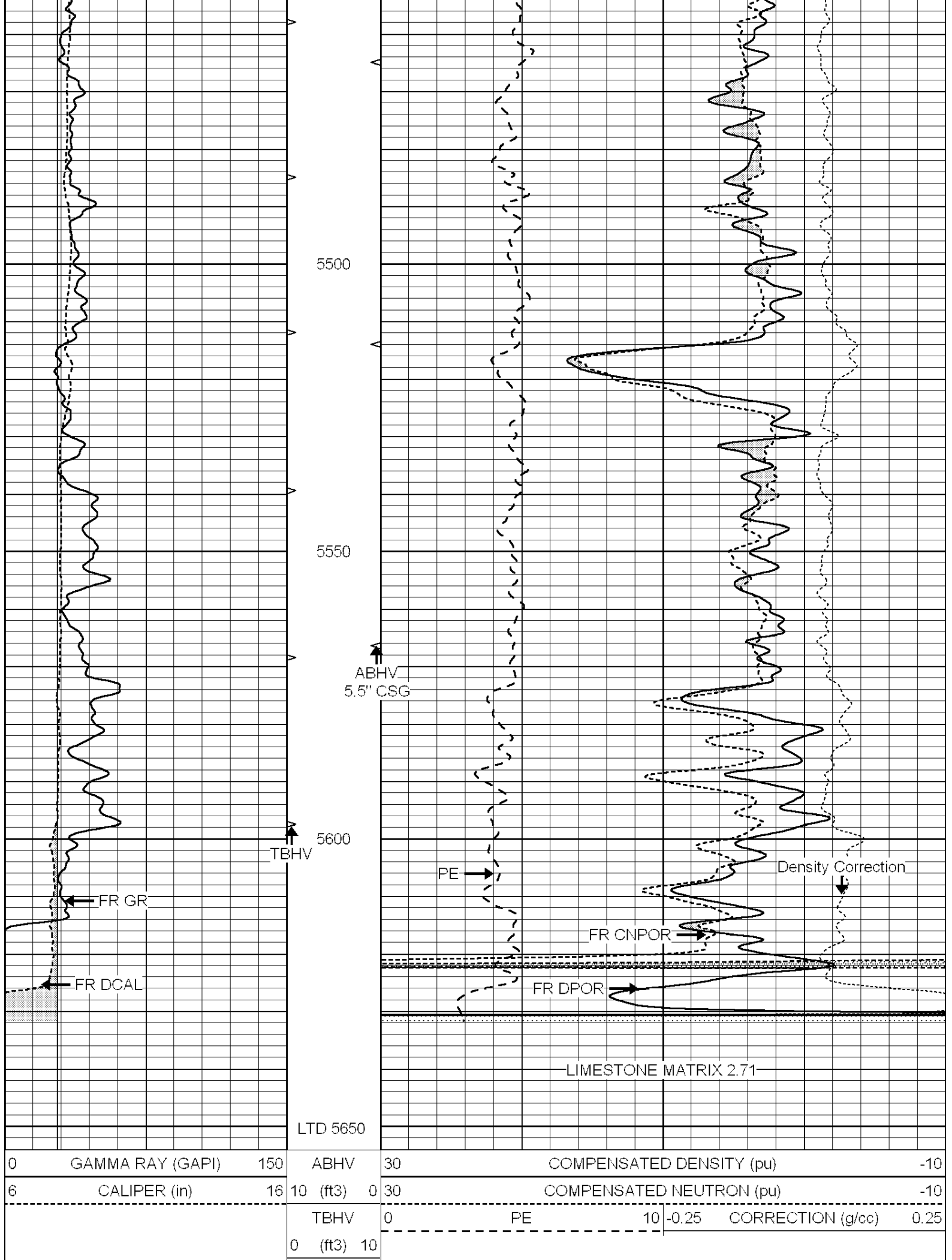














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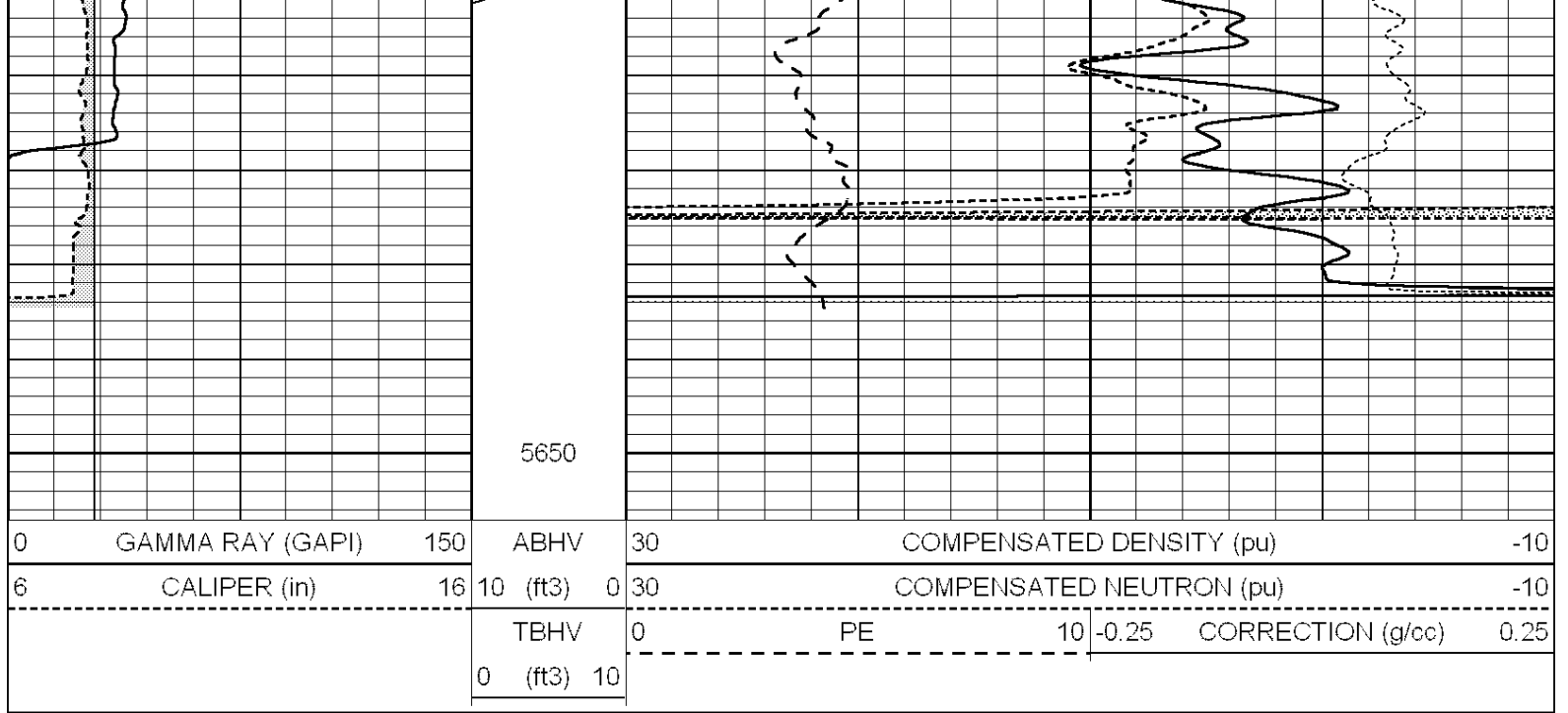
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REPEAT SECTION

Database File: 012084pe.db
Dataset Pathname: pass2.4
Presentation Format: _ldt_neu
Dataset Creation: Tue Nov 05 18:59:33 2013 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	
			TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10					





Calibration Report

Database File: 012084pe.db
 Dataset Pathname: pass3.2
 Dataset Creation: Tue Nov 05 18:44:28 2013 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			References			Results	
	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		
		-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		

LLS	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 Performed Thu Sep 17 09:57:21 2009					
Litho Density Calibration					
	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			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
Caliper					
	Readings	Reference			
Low Ref	3.1	8.4			
High Ref	4.3	14.3			
	Gain: 4.6		Offset: -5.5		
Compensated Neutron Calibration Report					
		Serial Number:	070808		
		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:		080327			
Tool Model:		Probe1			
Performed:		Sun Jun 13 14:33:21 1993			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.4300	GAPI/cps		