



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY/NEUTRON
PE LOG

Company LOTUS OPERATING COMPANY, LLC.	
Well ALBERDING #1	
Field STRANATHAN	
County BARBER	
State KANSAS	
Location: API # : 15-007-23830-0000 1815' FNL & 495' FEL SW-NE-SE-NE	
Other Services DIL/MEL SONIC	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL Elevation 1426 KELLY BUSHING 13' A.G.L. KELLY BUSHING
SEC 34 TWP 34S RGE 12W	Elevation K.B. 1439 D.F. 1437 G.L. 1426
Date 1/17/12	
Run Number ONE	
Depth Driller 5520	
Depth Logger 5526	
Bottom Logged Interval 5502	
Top Log Interval 3600	
Casing Driller 8 5/8" @ 275	
Casing Logger 272	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 6400 PPM
Density / Viscosity 9.3/56	
pH / Fluid Loss 10.5/6.4	
Source of Sample FLOWLINE	
Rin @ Meas. Temp 1.30 @ 63F	
Rinf @ Meas. Temp .97 @ 63F	
Rinc @ Meas. Temp 1.56 @ 63F	
Source of Rinf / Rinc MEASURED	
Rin @ BHT .63 @ 129F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 129F	
Equipment Number 680	
Location HAYS, KS.	
Recorded By JASON CAPPELLUCCI	
Witnessed By TIM PRIEST	

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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 SERVICE (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS. - 16 S. TO RATTLESNAKE TRAIL - 2 W. - S. INTO

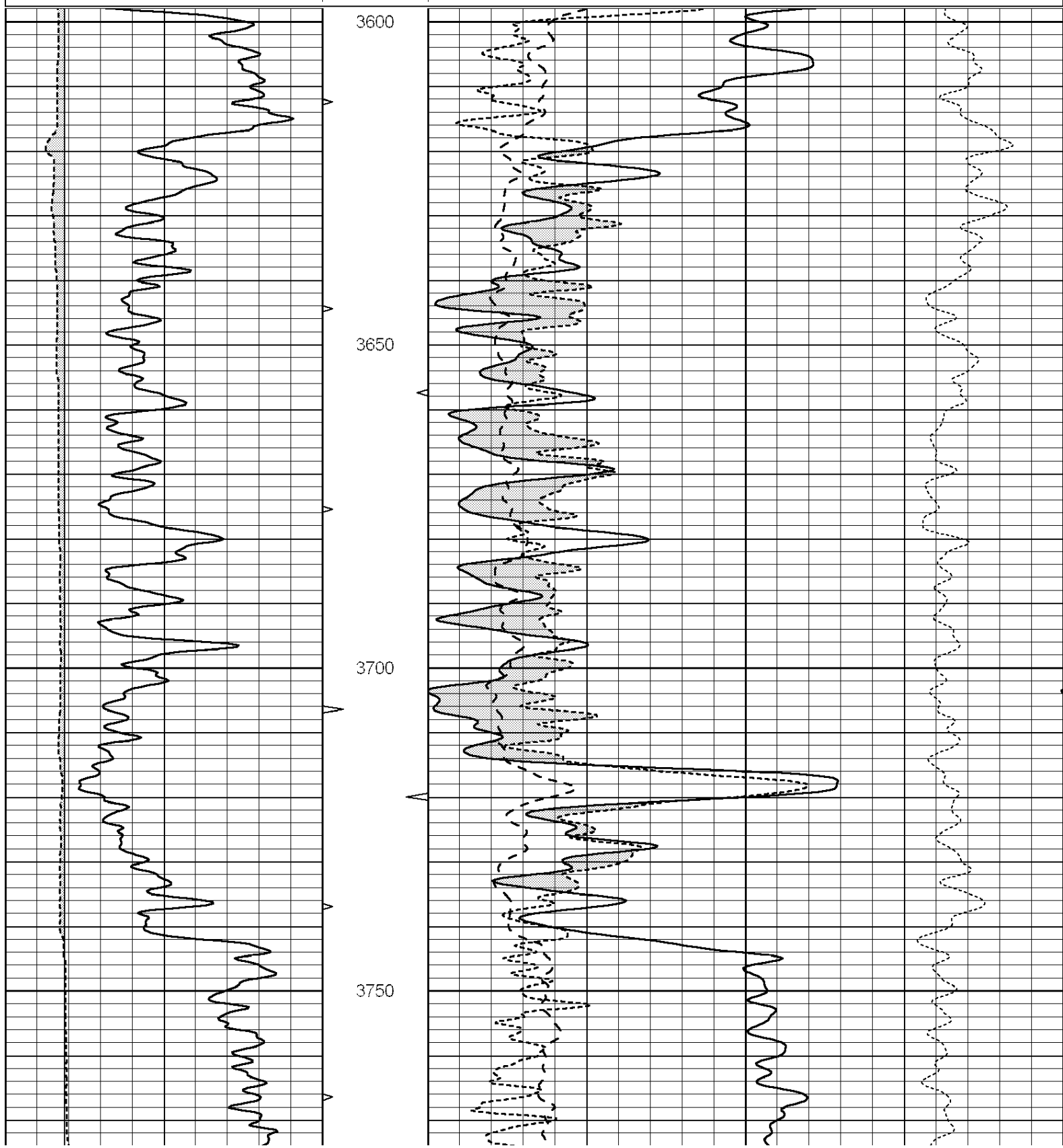


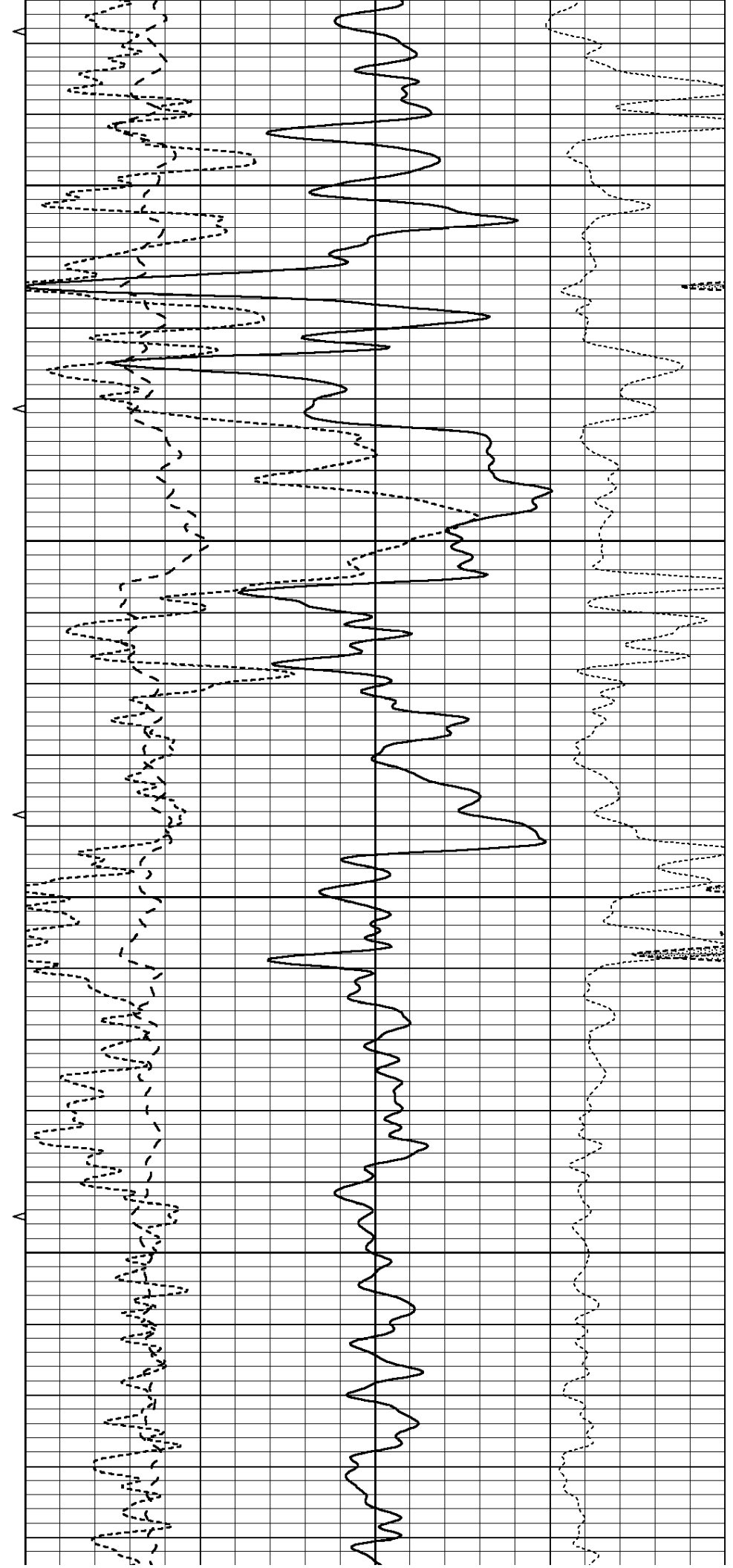
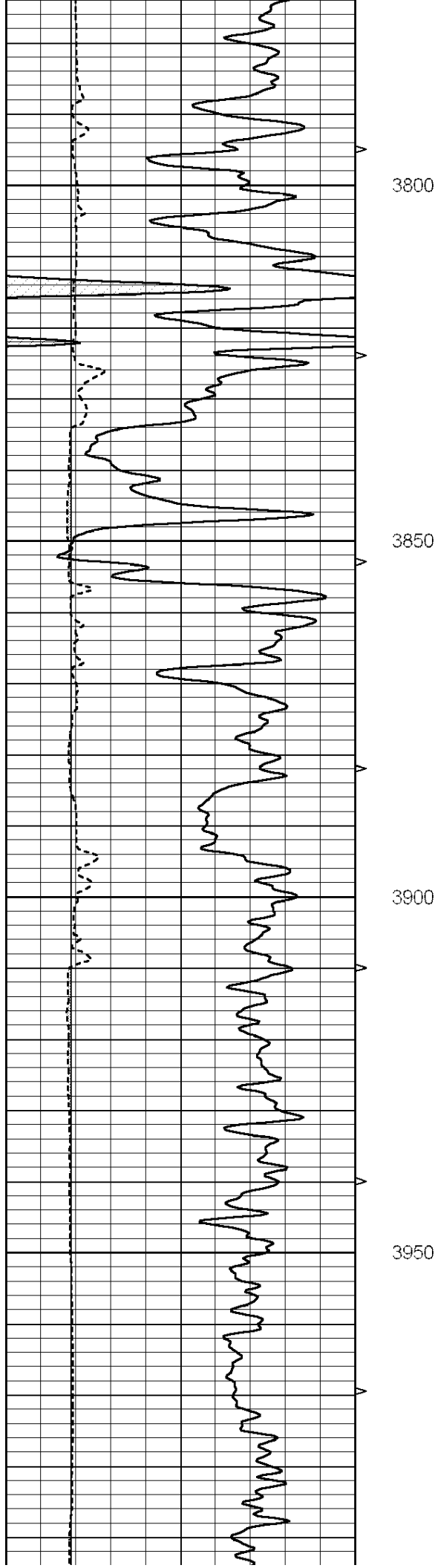
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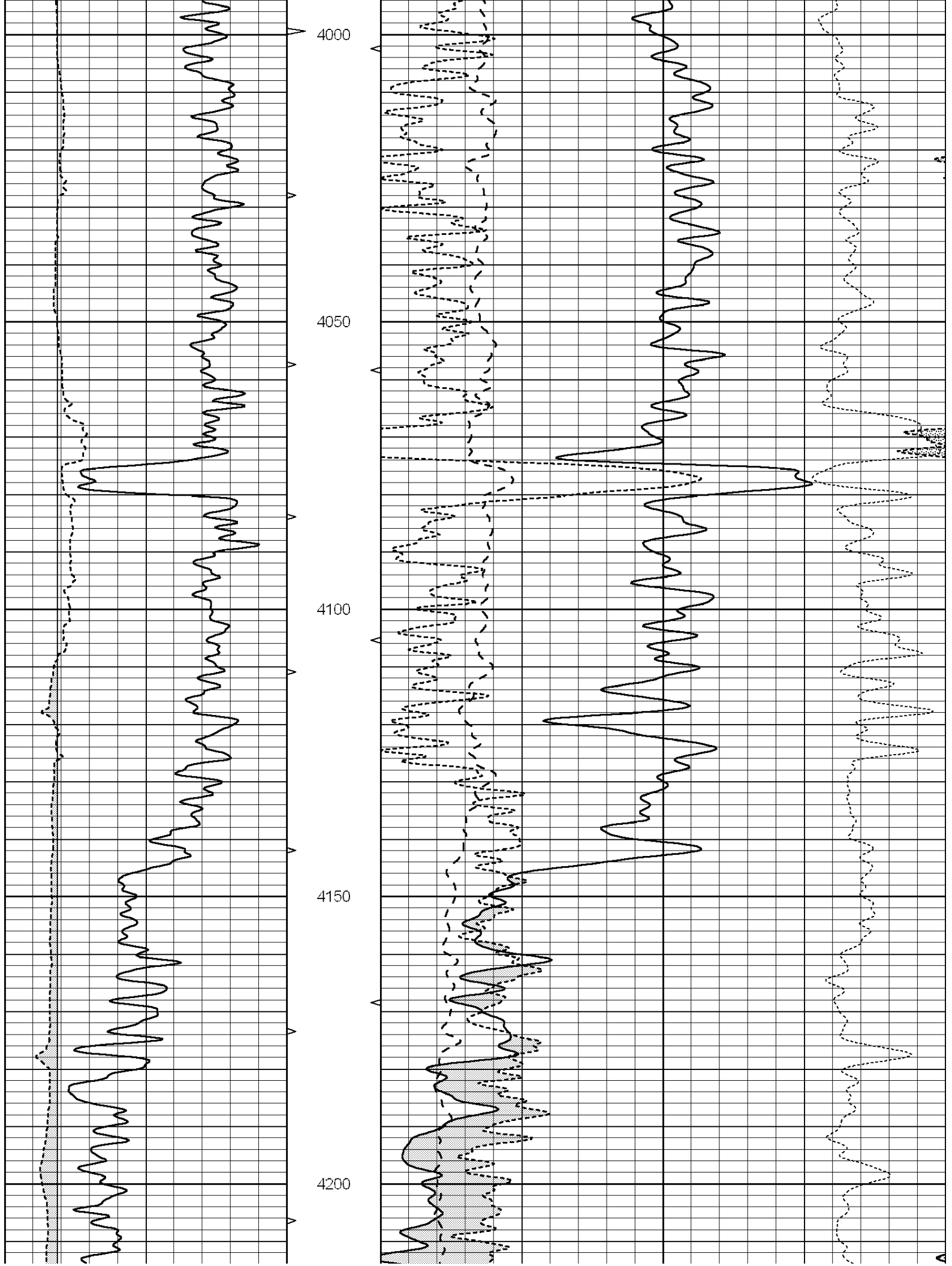
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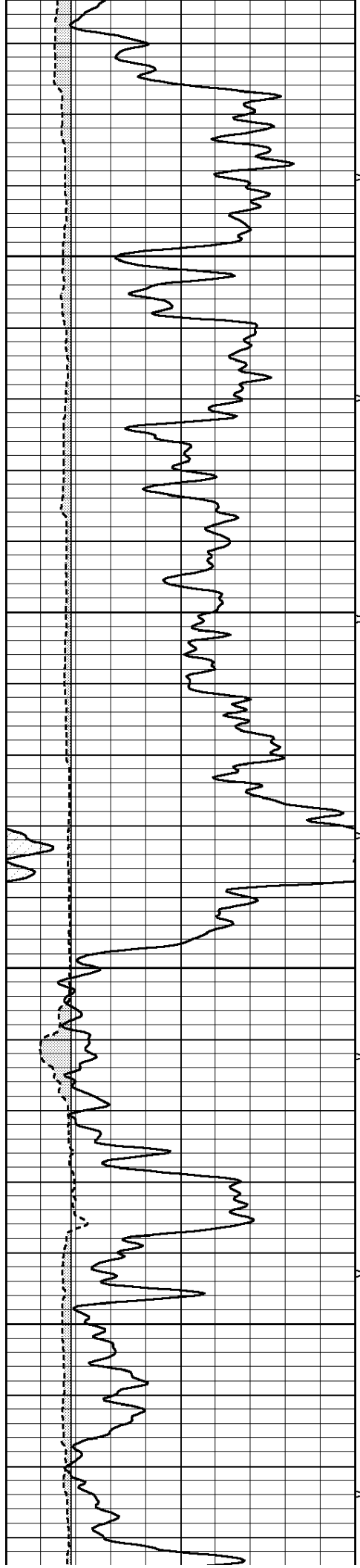
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 Dataset Pathname: pass3.1
 Presentation Format: _ldt_neu
 Dataset Creation: Wed Jan 18 01:12:51 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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







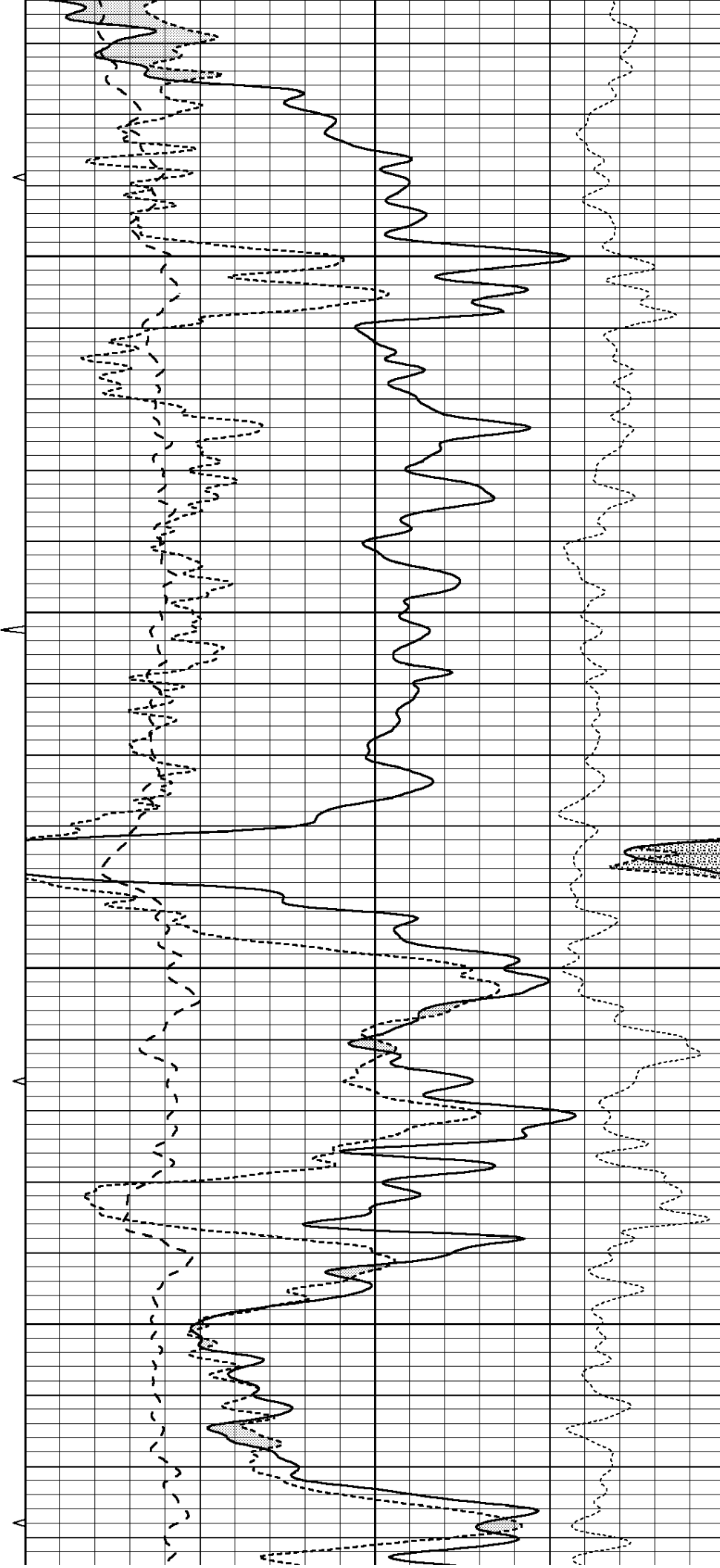


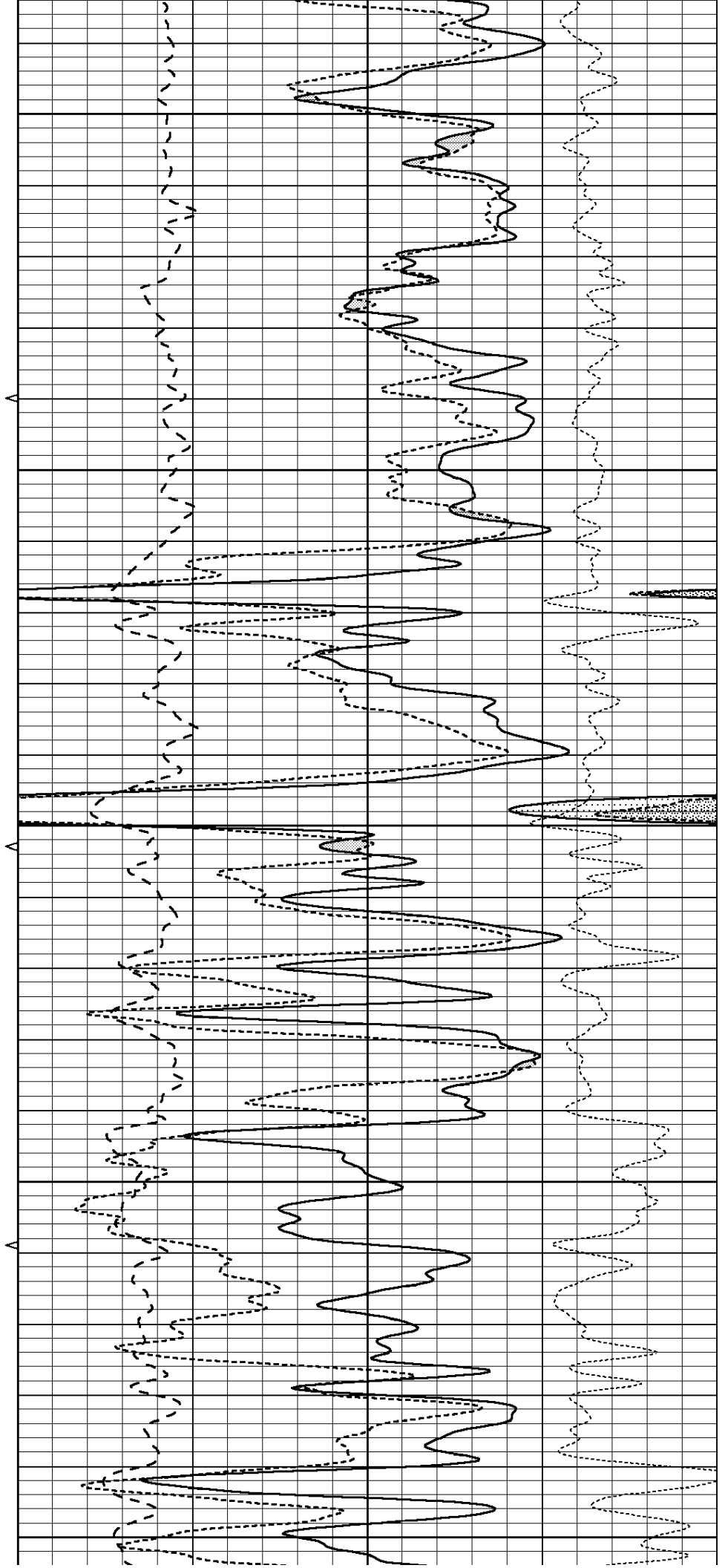
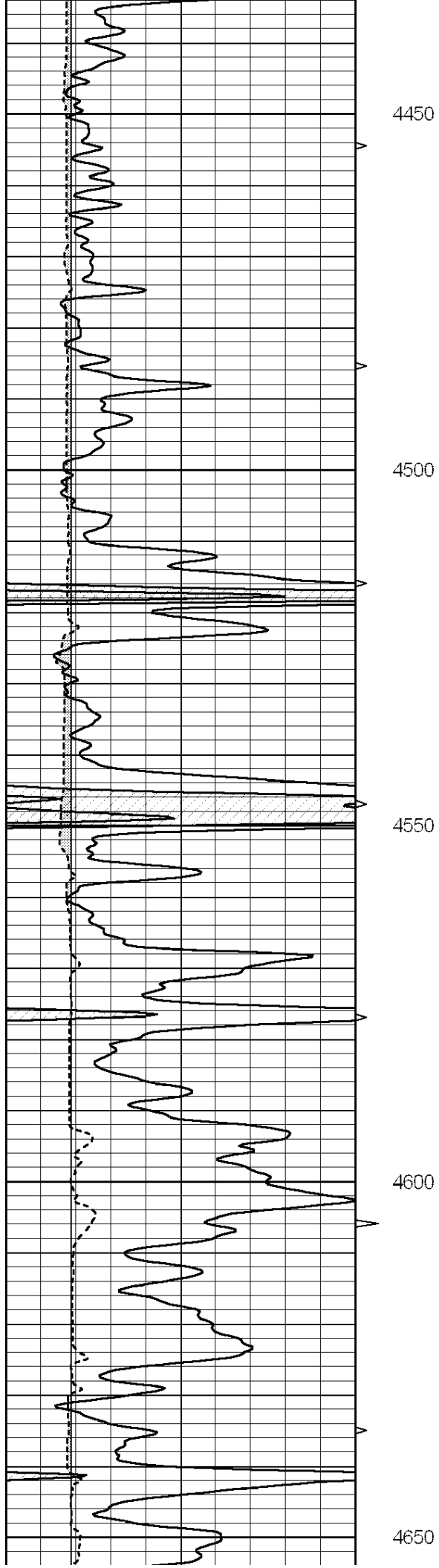
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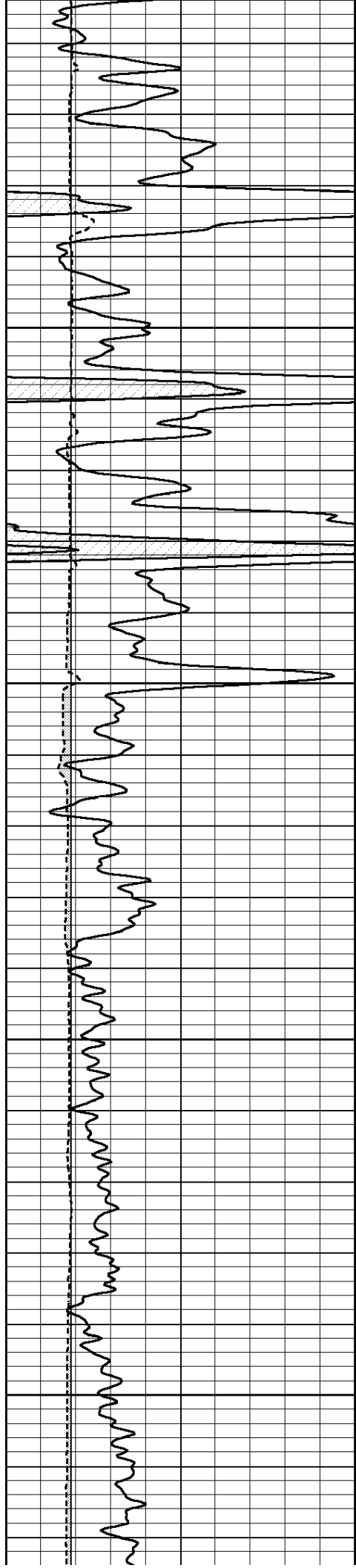
4300

4350

4400





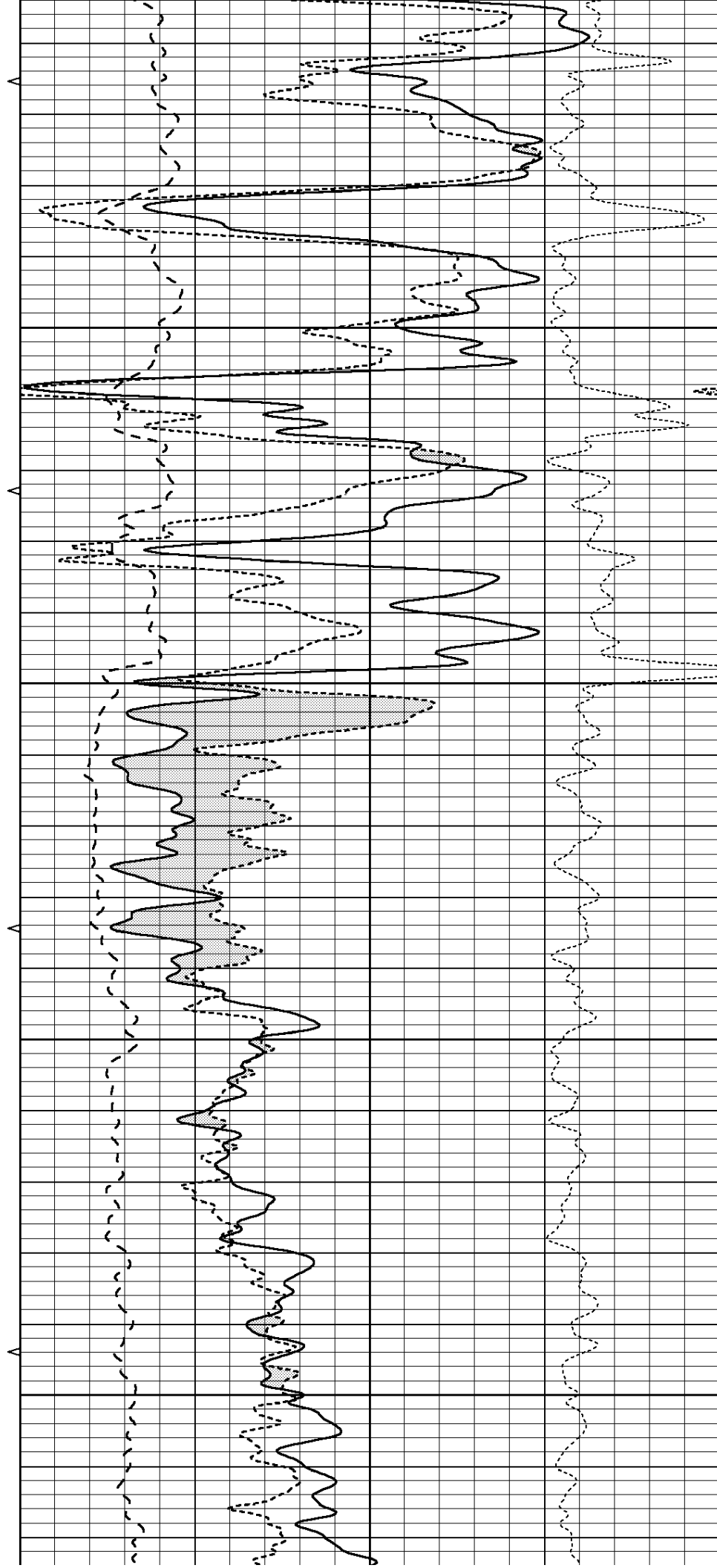


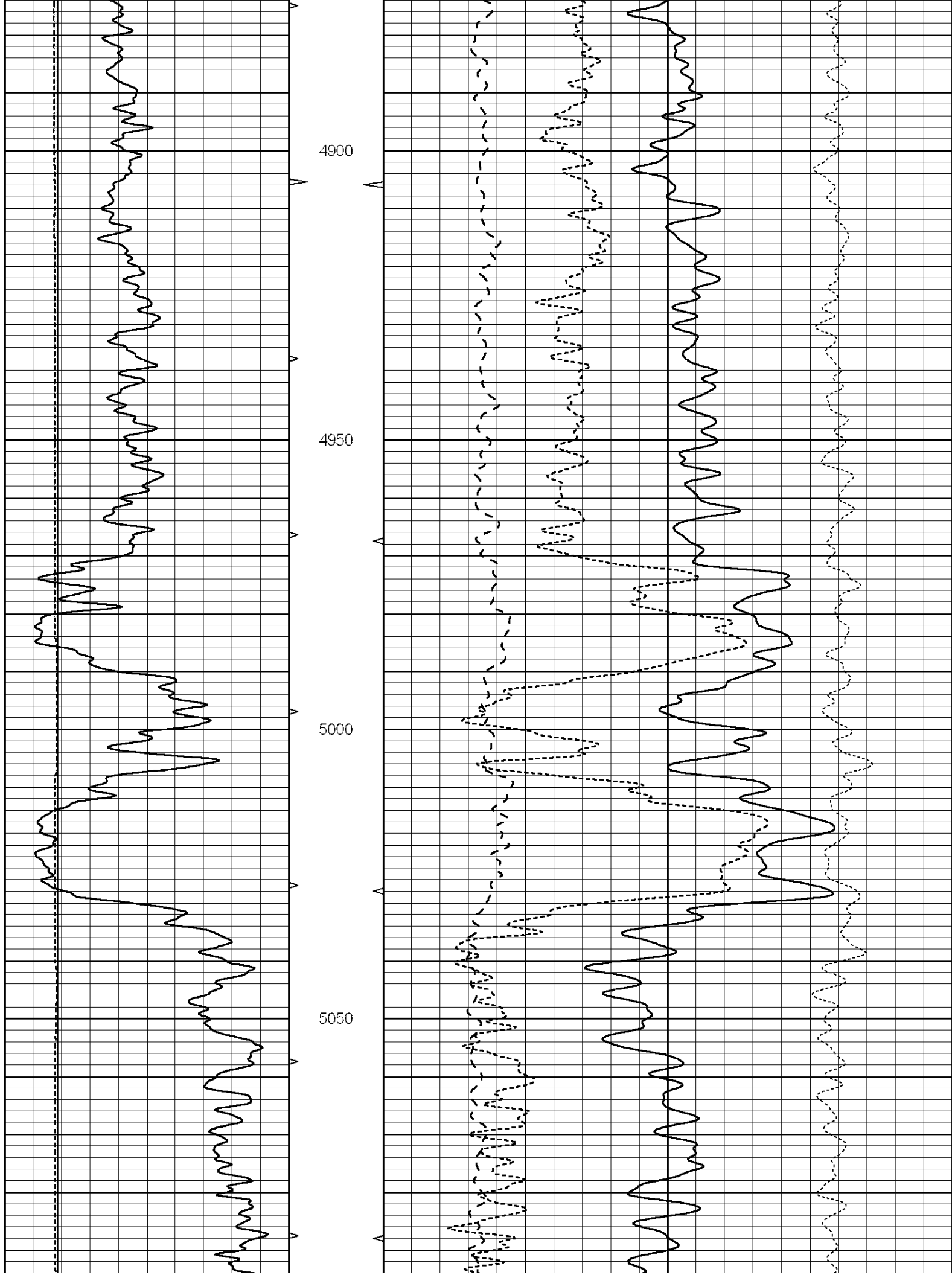
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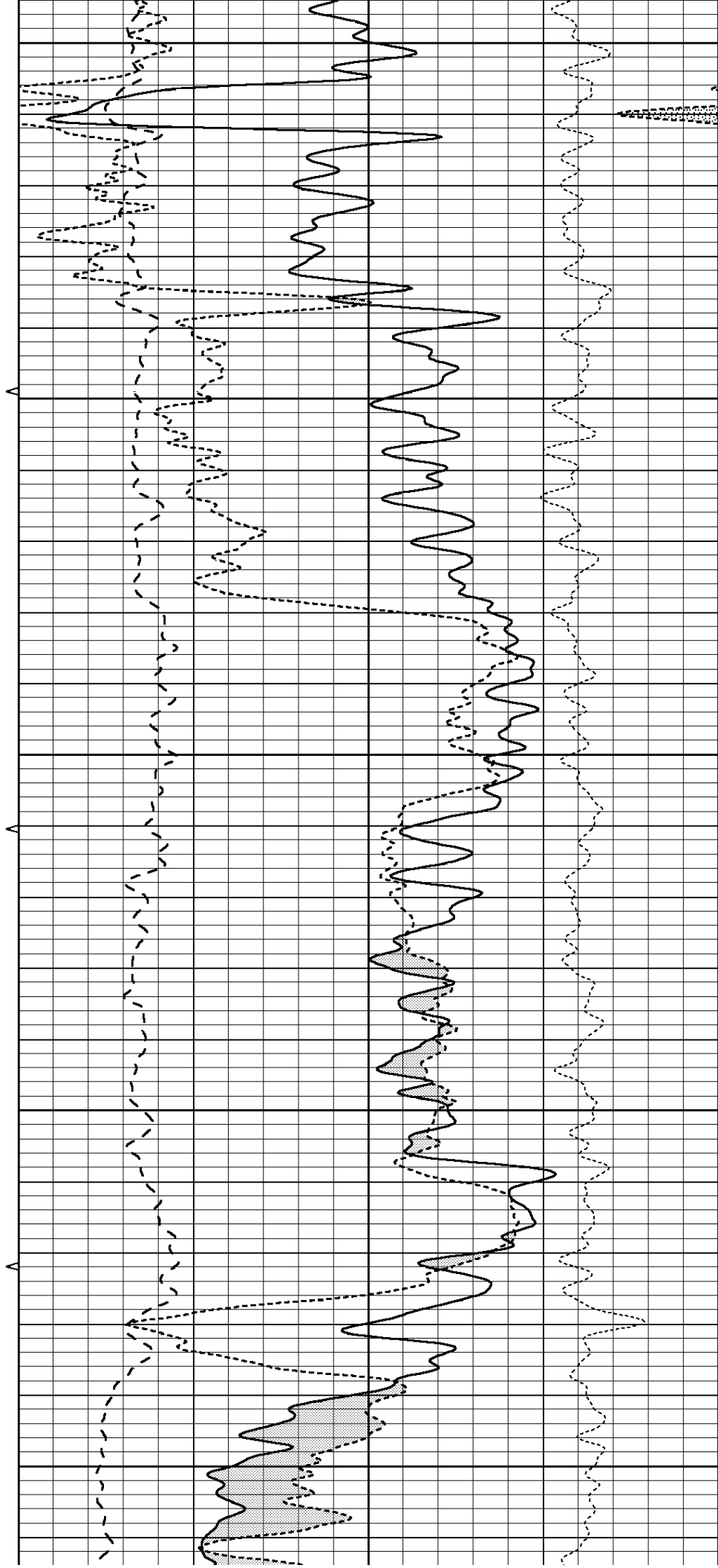
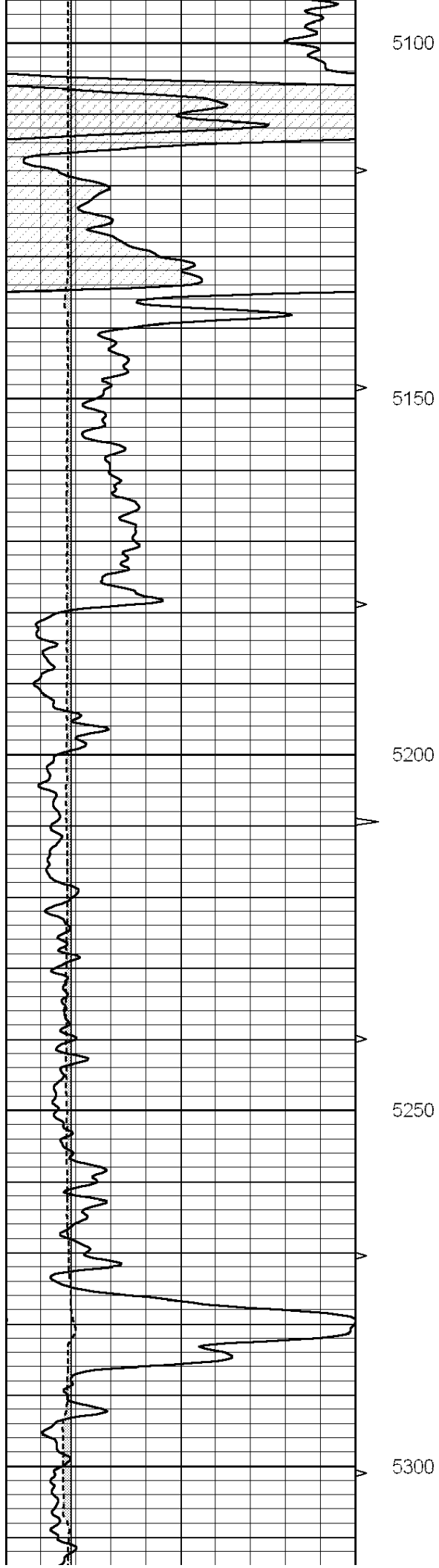
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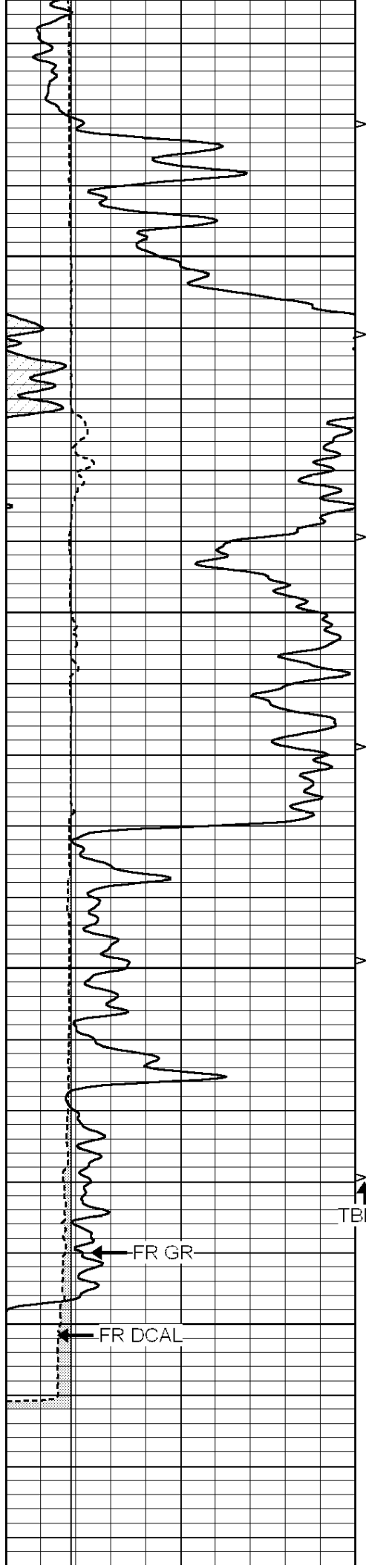
4800

4850









5350

5400

5450

5.5" CSG

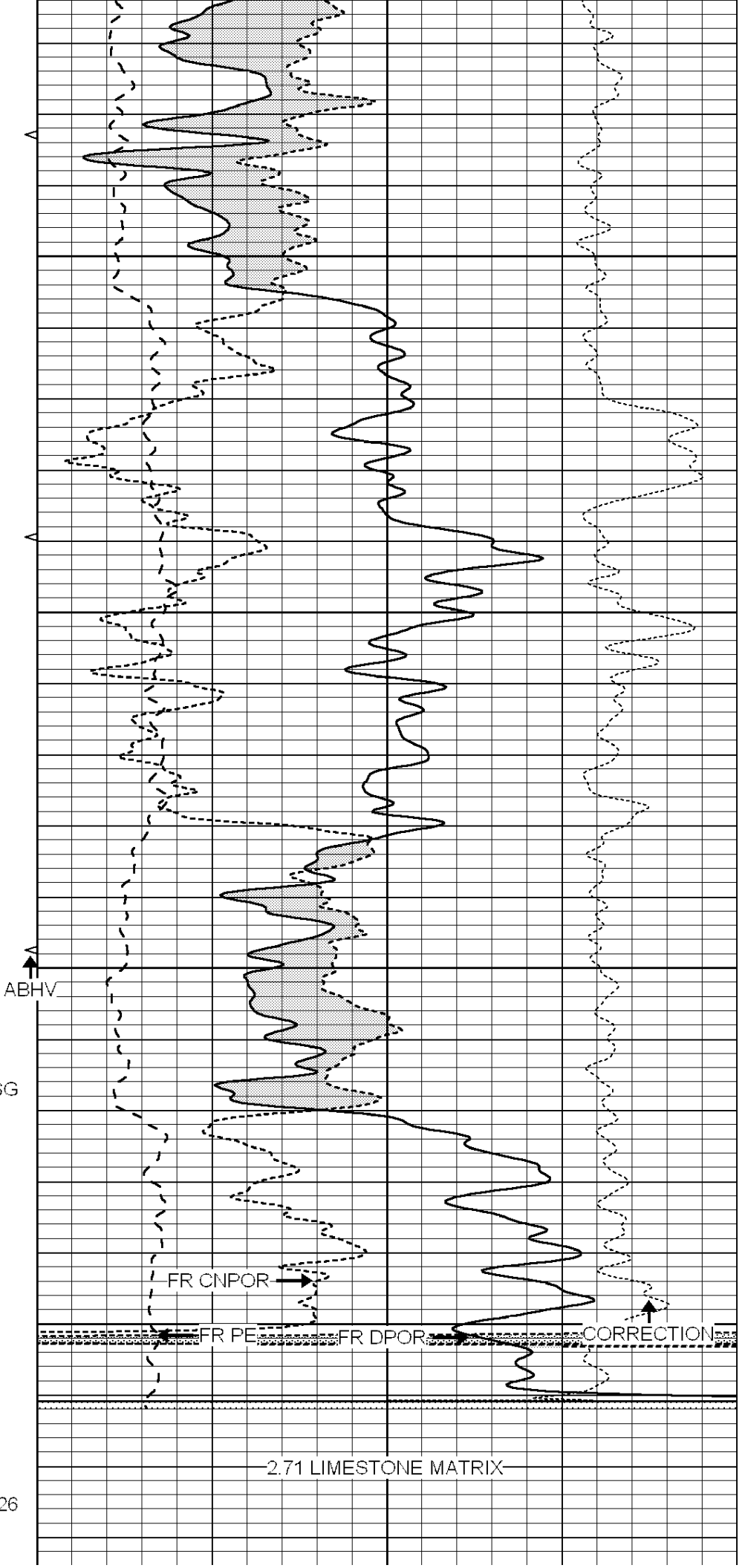
TBHV

FR GR

FR DCAL

5500

LTD 5526



ABHV

FR CNPOR

FR PE

FR DPOR

CORRECTION

2.71 LIMESTONE MATRIX

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
			0 (ft3) 10	CORRECTION (g/cc) 0.25		

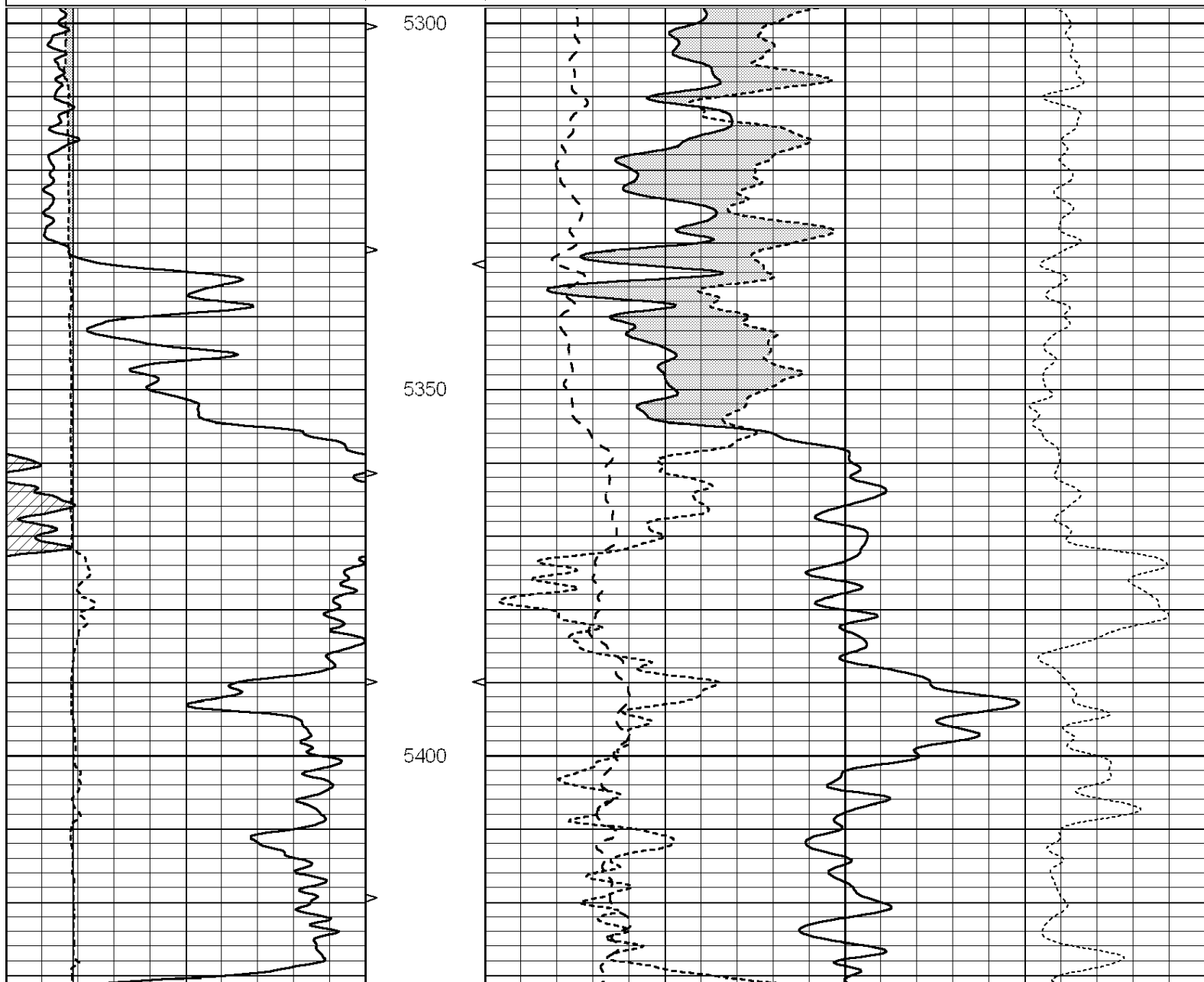


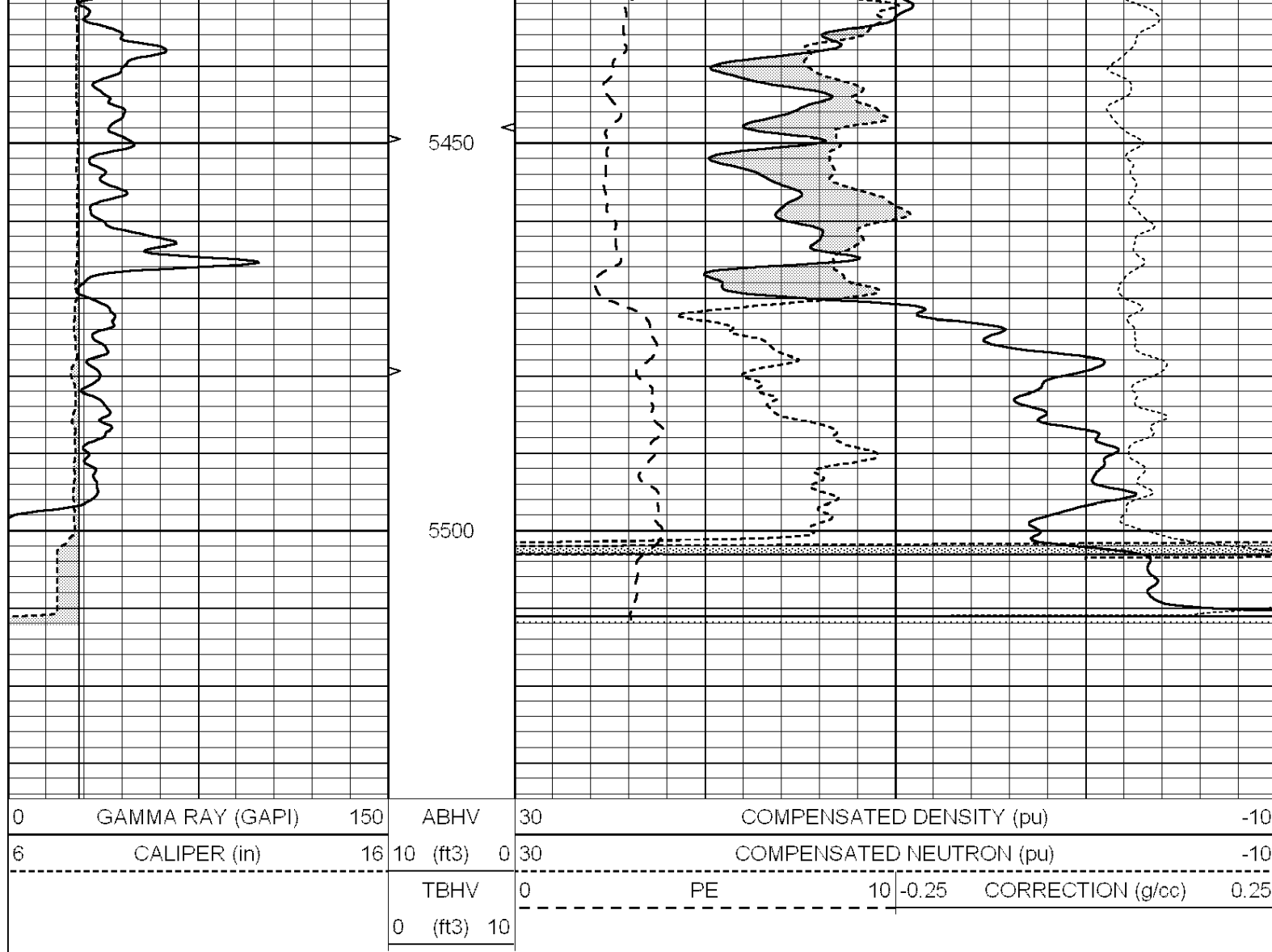
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REPEAT SECTION

Database File: 008675ddn.db
Dataset Pathname: pass2.1
Presentation Format: _ldt_neu
Dataset Creation: Wed Jan 18 01:07:25 2012 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
			0 (ft3) 10	CORRECTION (g/cc) 0.25		





Calibration Report

Database File: 008675ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Wed Jan 18 01:07:25 2012 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

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		
		-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: 002 Model: PRB Performed Mon Oct 29 15:40:49 2007								
Litho Density Calibration								
	Background	Magnesium		Aluminum		Sandstone		
Window 1	1056.3	9118.0		2809.7		10378.4		cps
Window 2	969.9	7671.9		2431.6		8565.8		cps
Window 3	683.8	2939.8		1161.0		3161.8		cps
Window 4	231.4	231.6		226.7		230.8		cps
Long Space	0.0	6702.0		1461.7		7595.9		cps
Short Space	1.2	1433.6		959.4		1568.6		cps
Rho		1.7100		2.5900		1.3800		g/cc
Pe				2.5700		1.5500		
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio		: 0.559		
Spine Angle	: 75.2	Spine Slope	: 3.791	Spine Intercept		: -18.7		
Caliper								
Low Ref	Readings	Reference						
High Ref	3.7	8.0						
	6.1	14.0						
	Gain: 2.5			Offset: -1.2				
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:	#8							
Tool Model:	OPEN							
Performed:	Mon Jun 13 16:56:43 2011							
Calibrator Value:	150.0		GAPI					
Background Reading:	0.0		cps					
Calibrator Reading:	175.0		cps					
Sensitivity:	0.8371		GAPI/cps					

