



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED NEUTRON / DENSITY LOG

Company	RITCHIE EXPLORATION, INC.	Company	RITCHIE EXPLORATION, INC.
Well	#1 BECKER 13BC	Well	#1 BECKER 13BC
Field	WILDCAT	Field	WILDCAT
County	FORD	County	FORD
State	KANSAS	State	KANSAS
Location:	API # : 15-057-20846 575' FSL & 1110' FWL 85S & 120E OF E/2 - SW - SW SEC 13 TWP 17S RGE 26W	Other Services DIL SONIC	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 12' A.G.L. KELLY BUSHING	Elevation K.B. 2645 D.F. 2643 G.L. 2633	
Date	10/17/12		
Run Number	ONE		
Depth Driller	5259		
Depth Logger	5262		
Bottom Logged Interval	5238		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 374		
Casing Logger	372		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4400 PPM	
Density / Viscosity	9.1/55		
pH / Fluid Loss	10.5/10.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	0.60 @ 94F		
Rinf @ Meas. Temp	0.45 @ 94F		
Rinc @ Meas. Temp	0.72 @ 94F		
Source of Rinf / Rinc	MEASURED		
Rin @ BHT	0.44 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	127F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	IAN MABB	JEFF GRONEMEG	
Witnessed By	TED JOCHEMS		

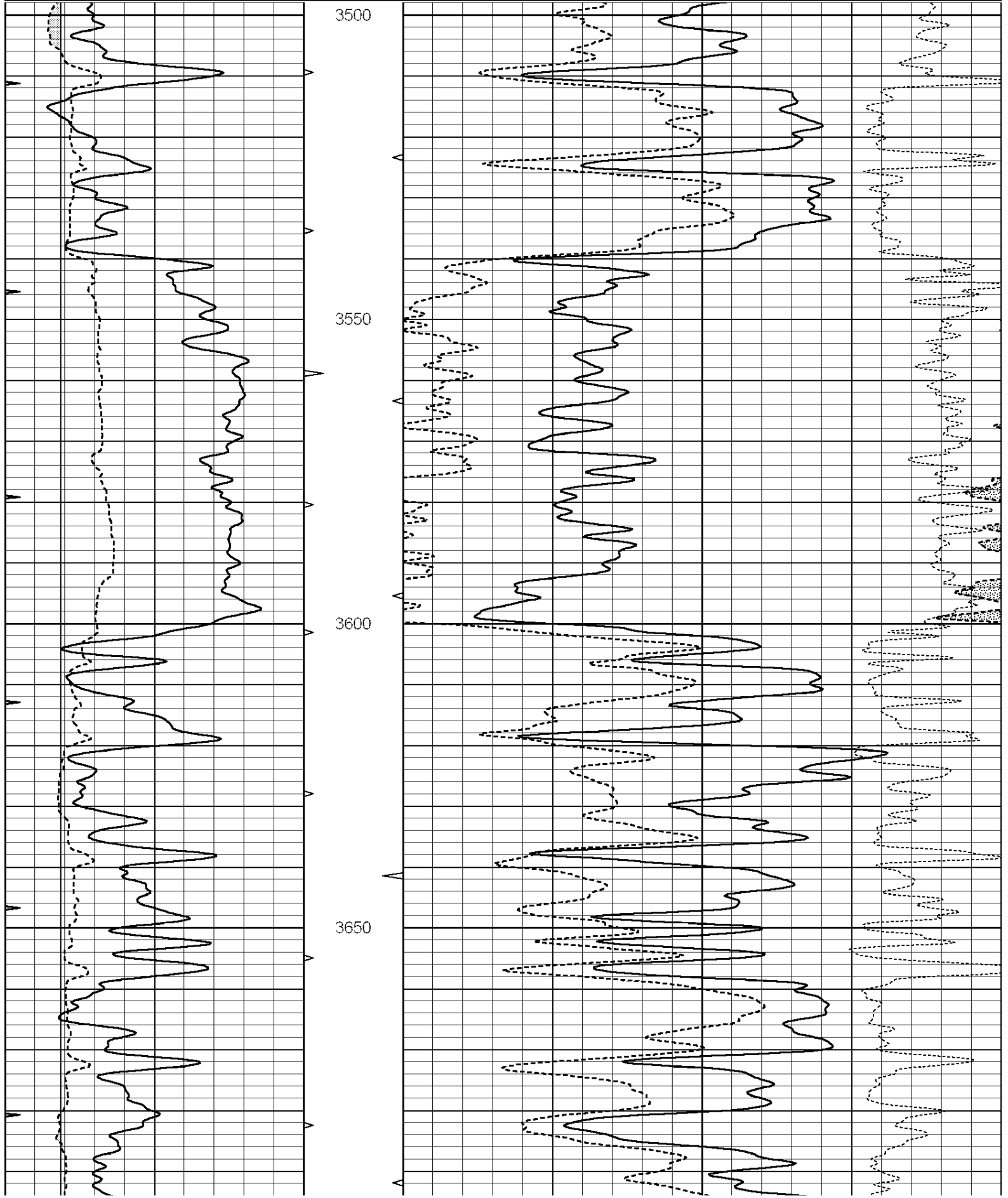
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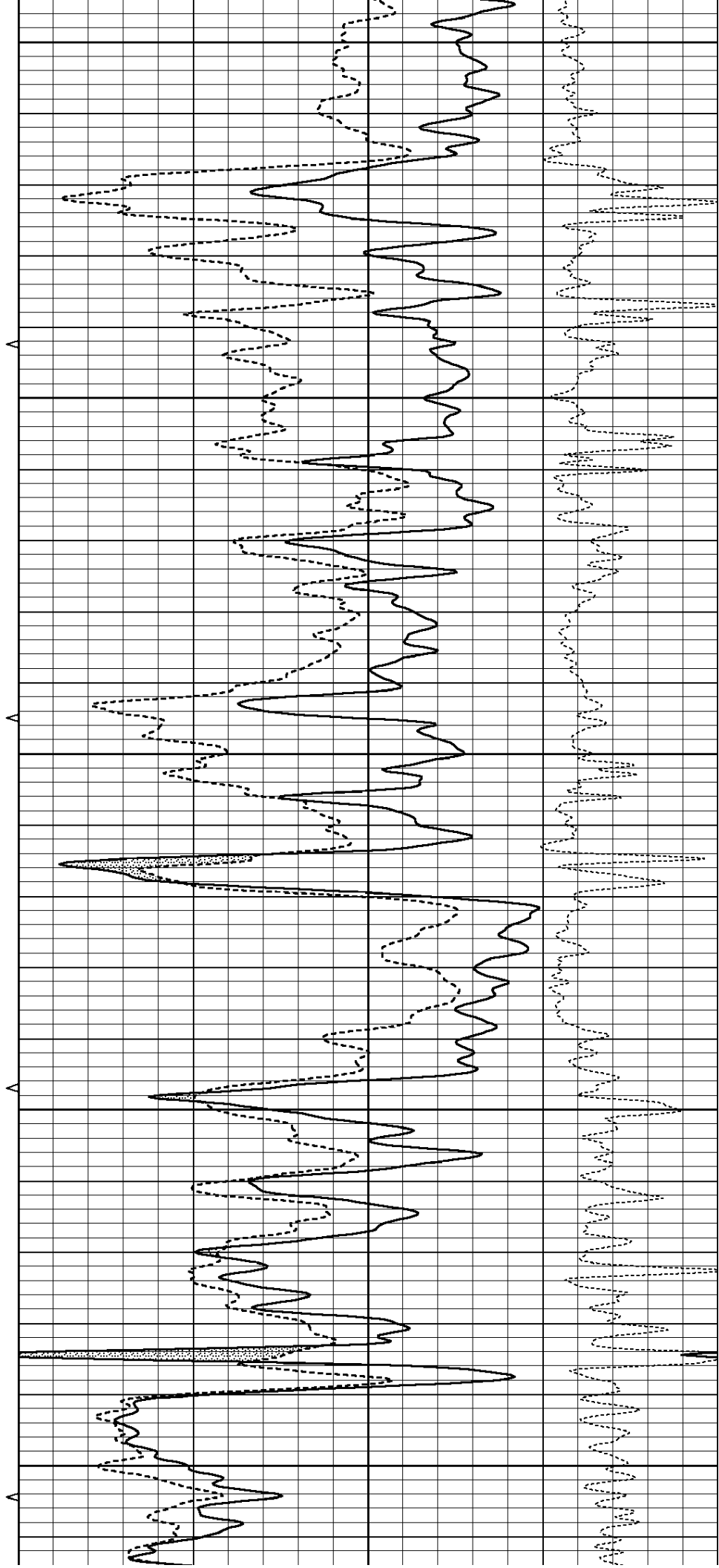
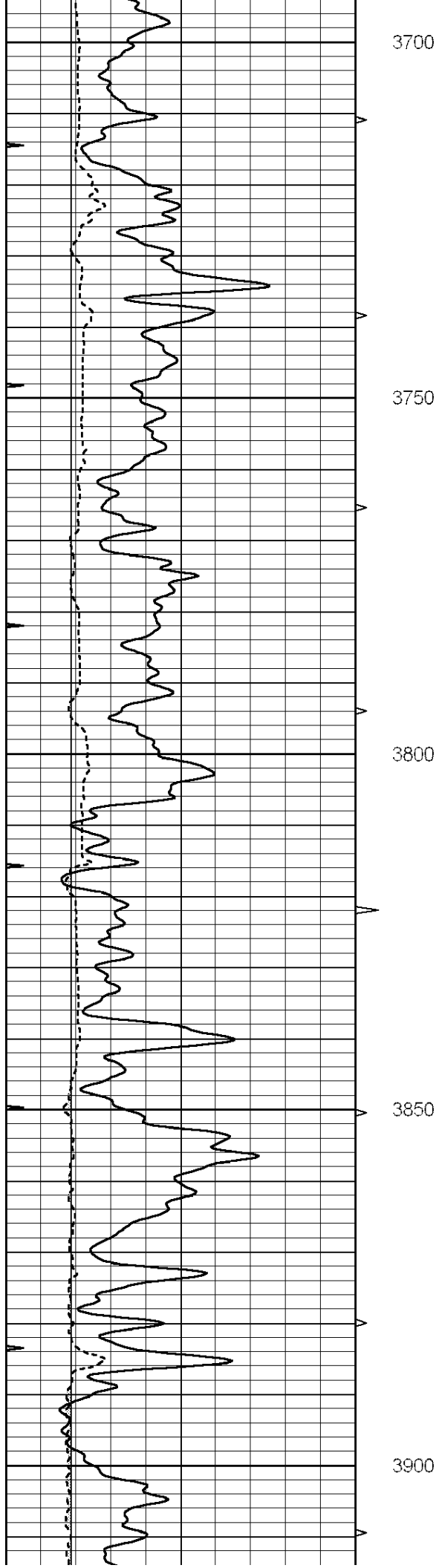
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

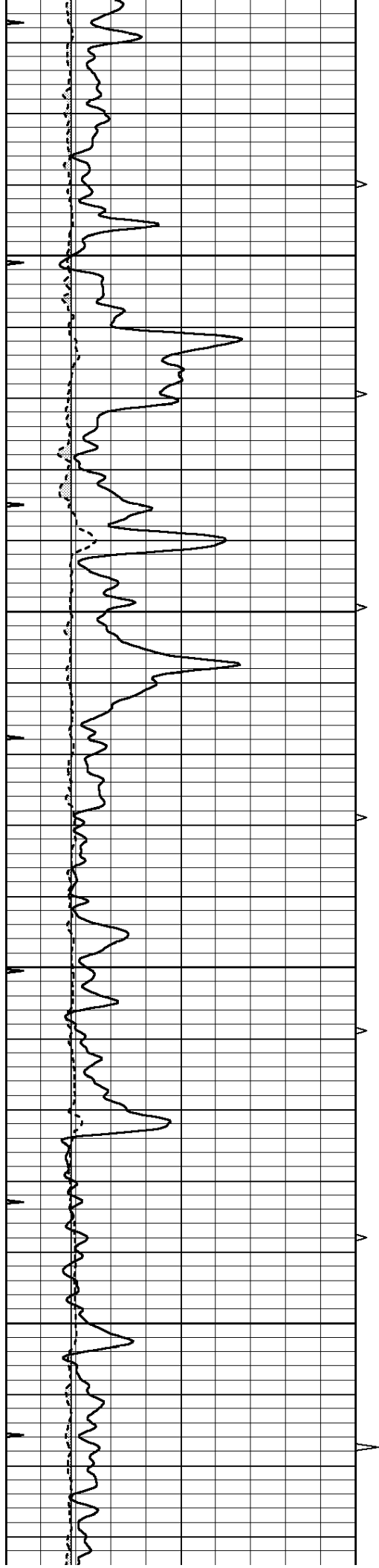
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
SOUTH SIDE OF DODGE CITY, KS. JCT. 283 & 56, 6 MILES WEST ON 56 TO RD 105,
1 MILES SOUTH EAST INTO

Charted by:		Depth in Feet scaled 1:2.15				
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			





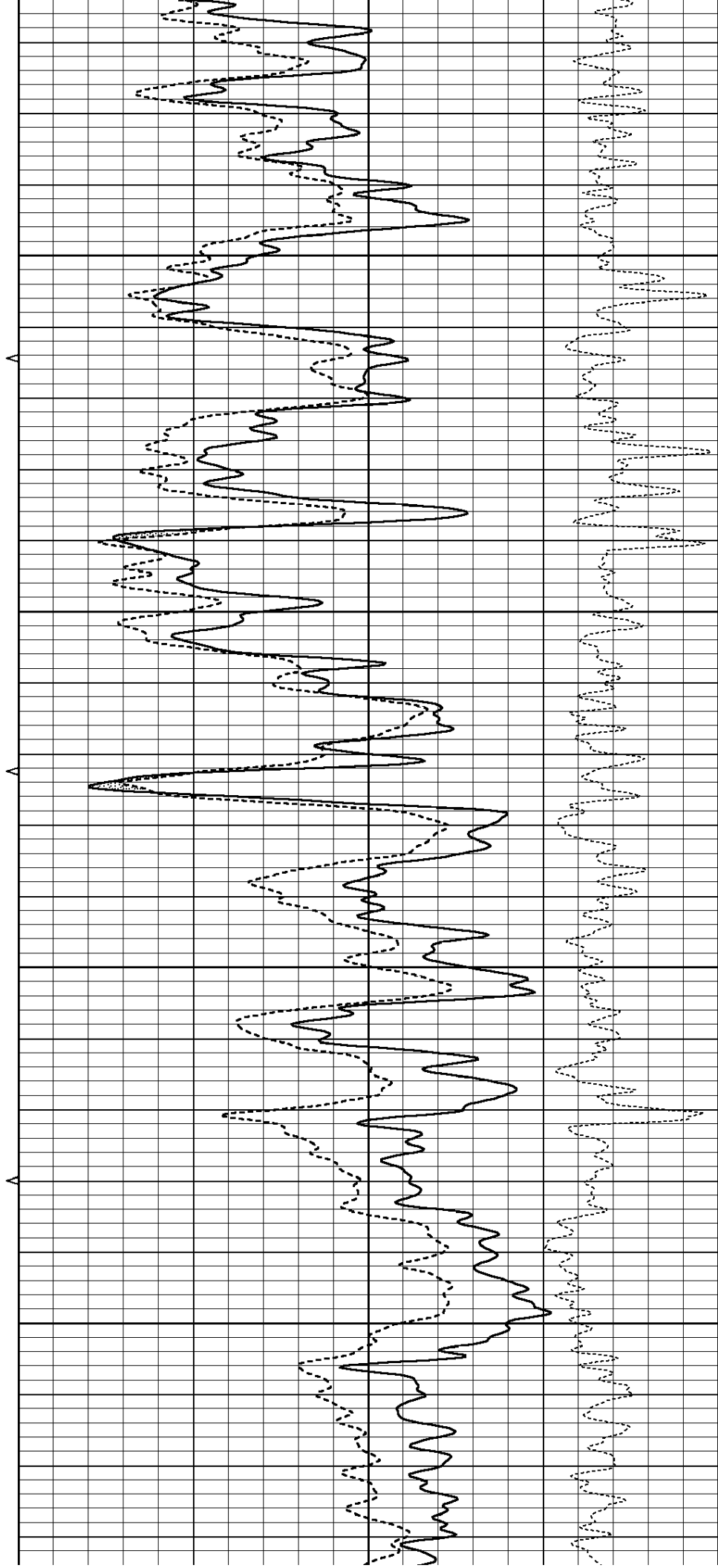


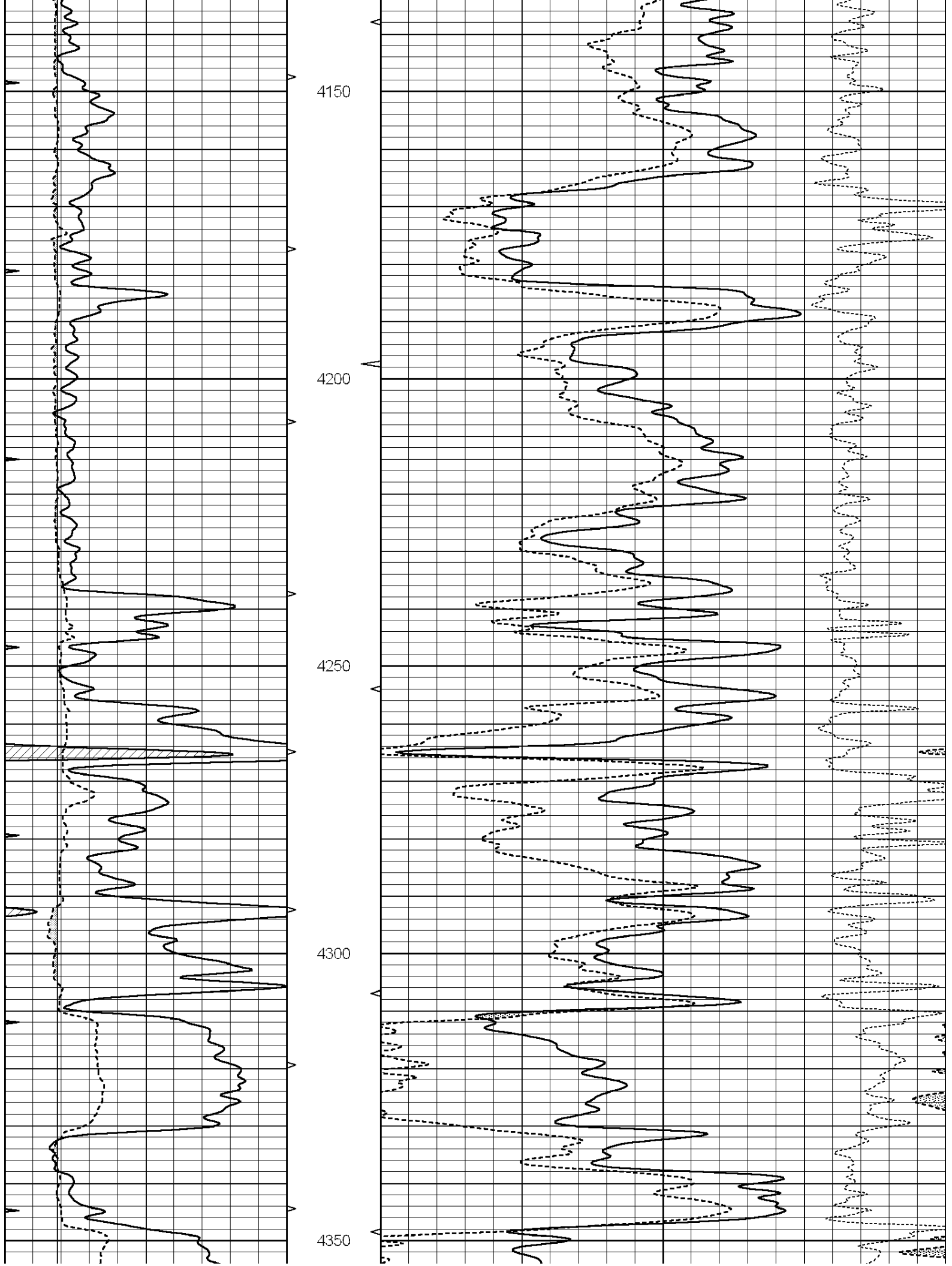
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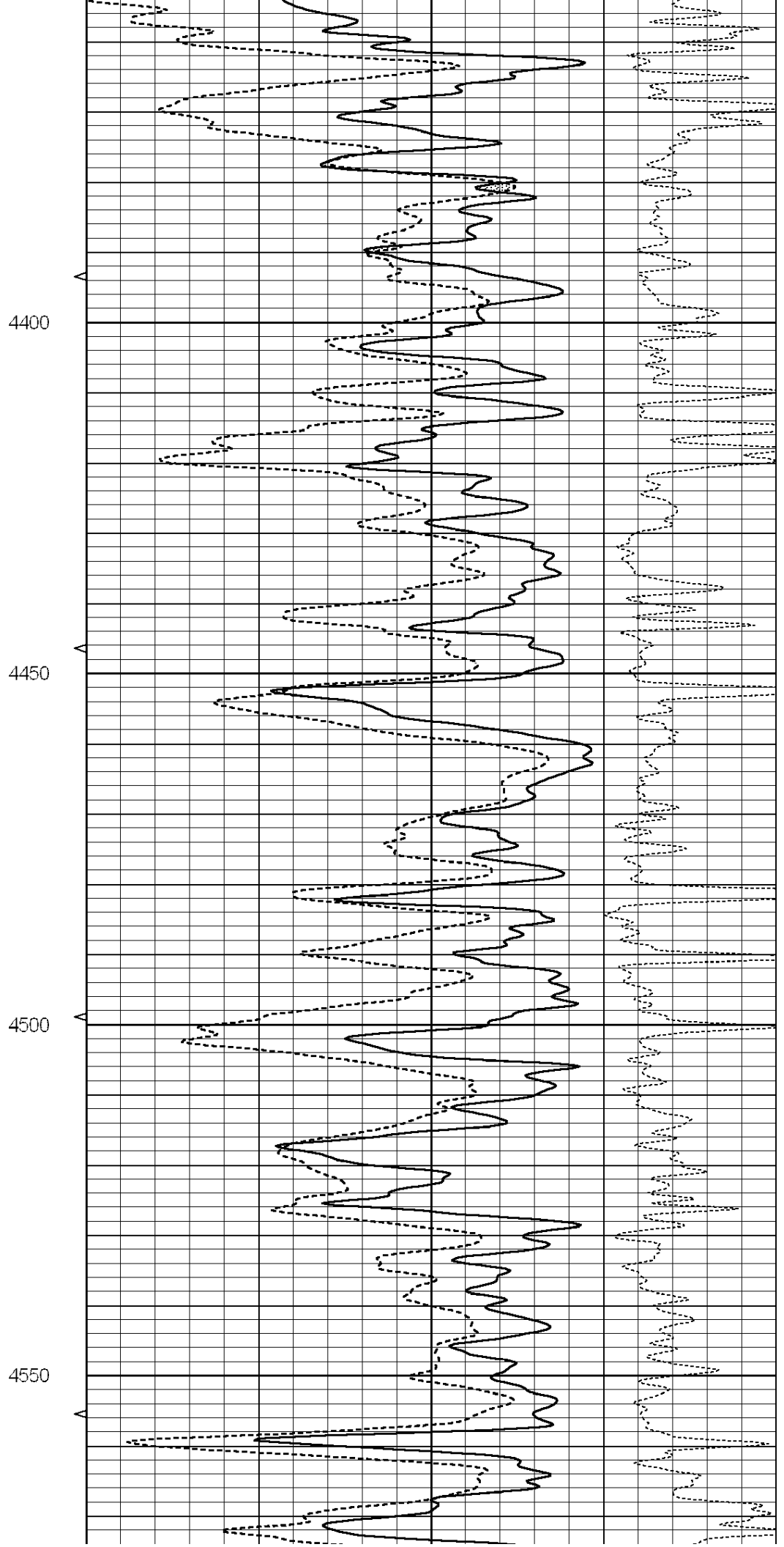
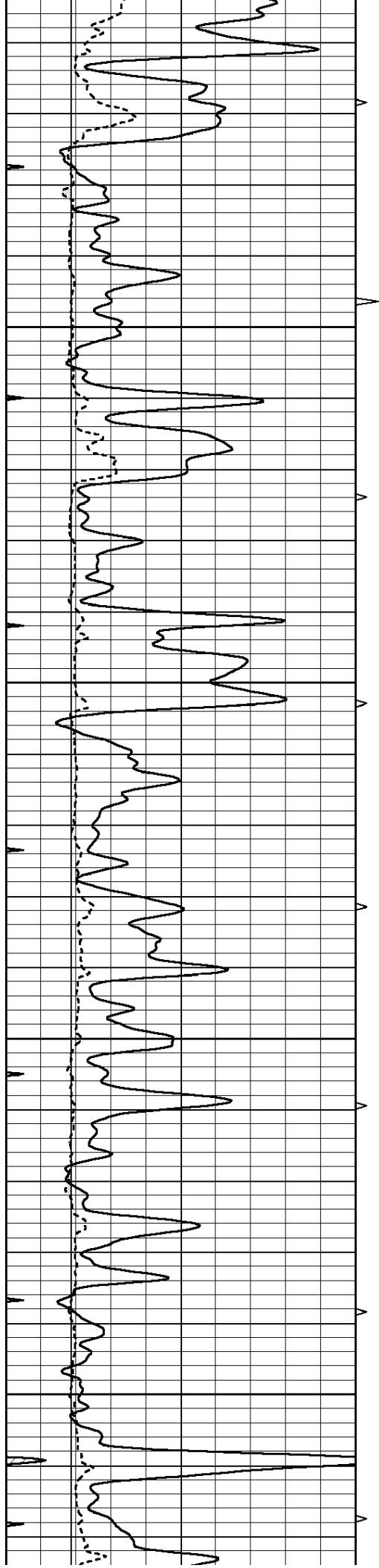
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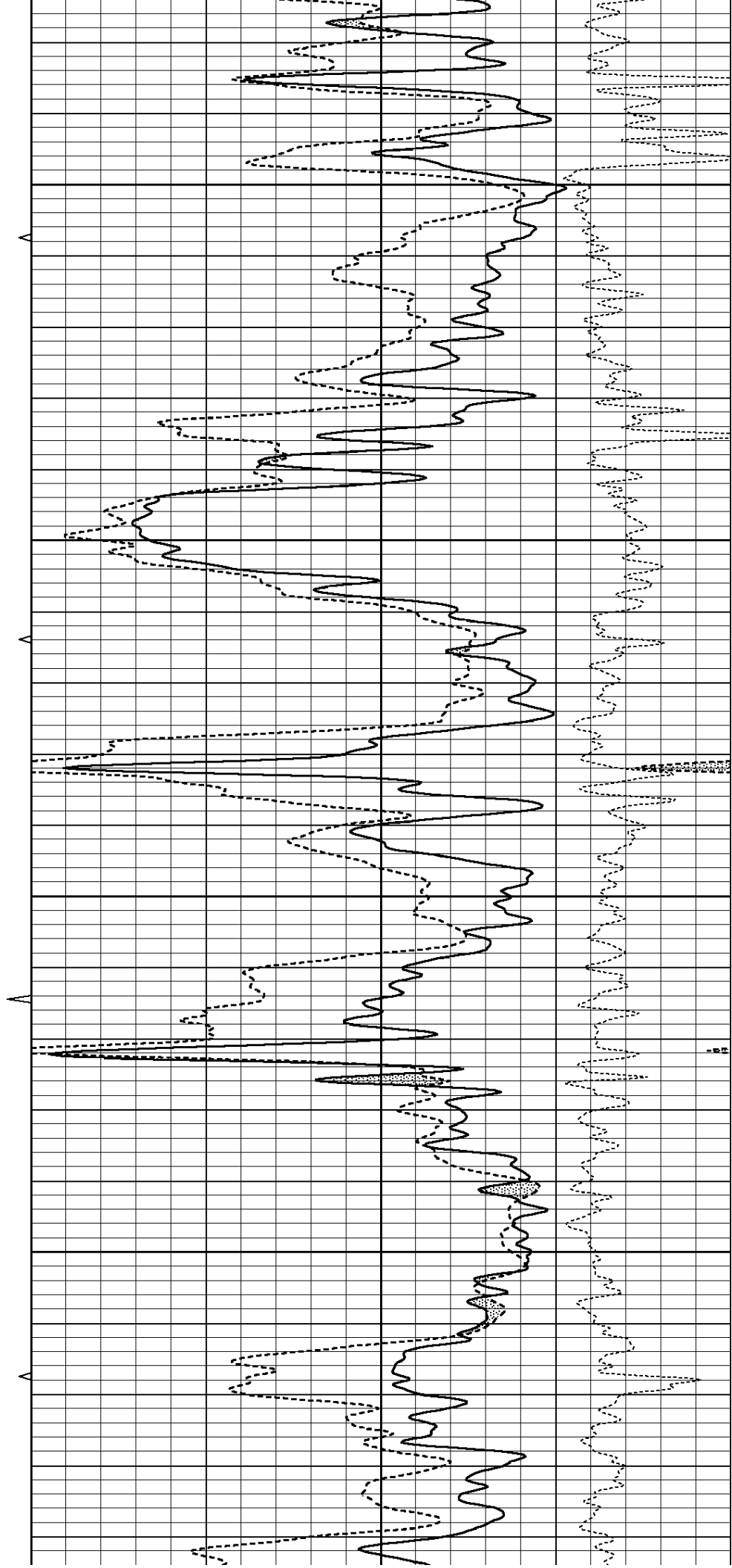
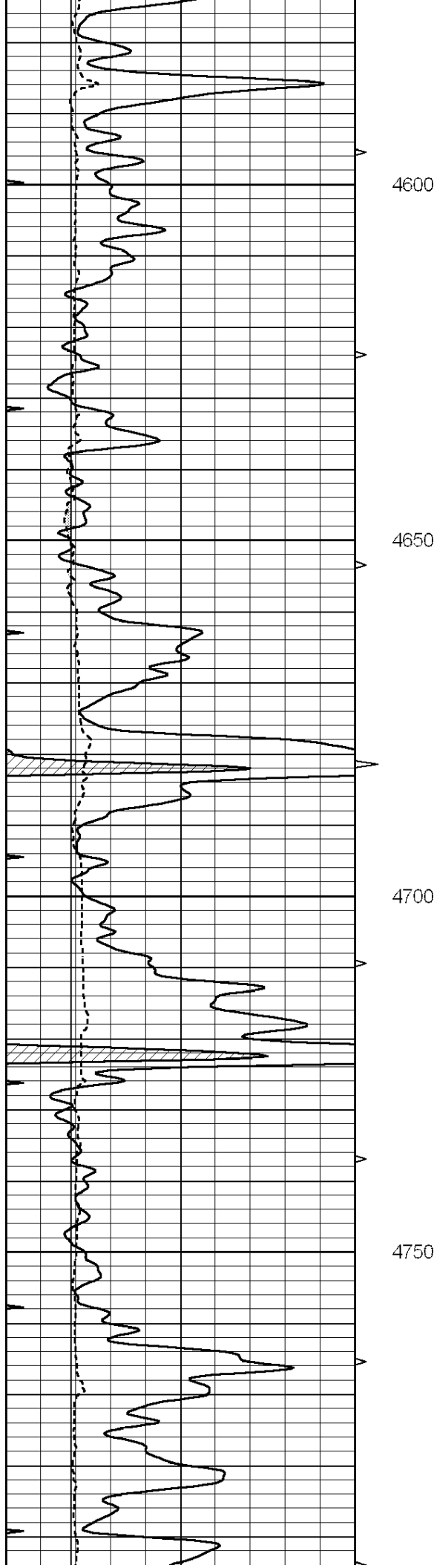
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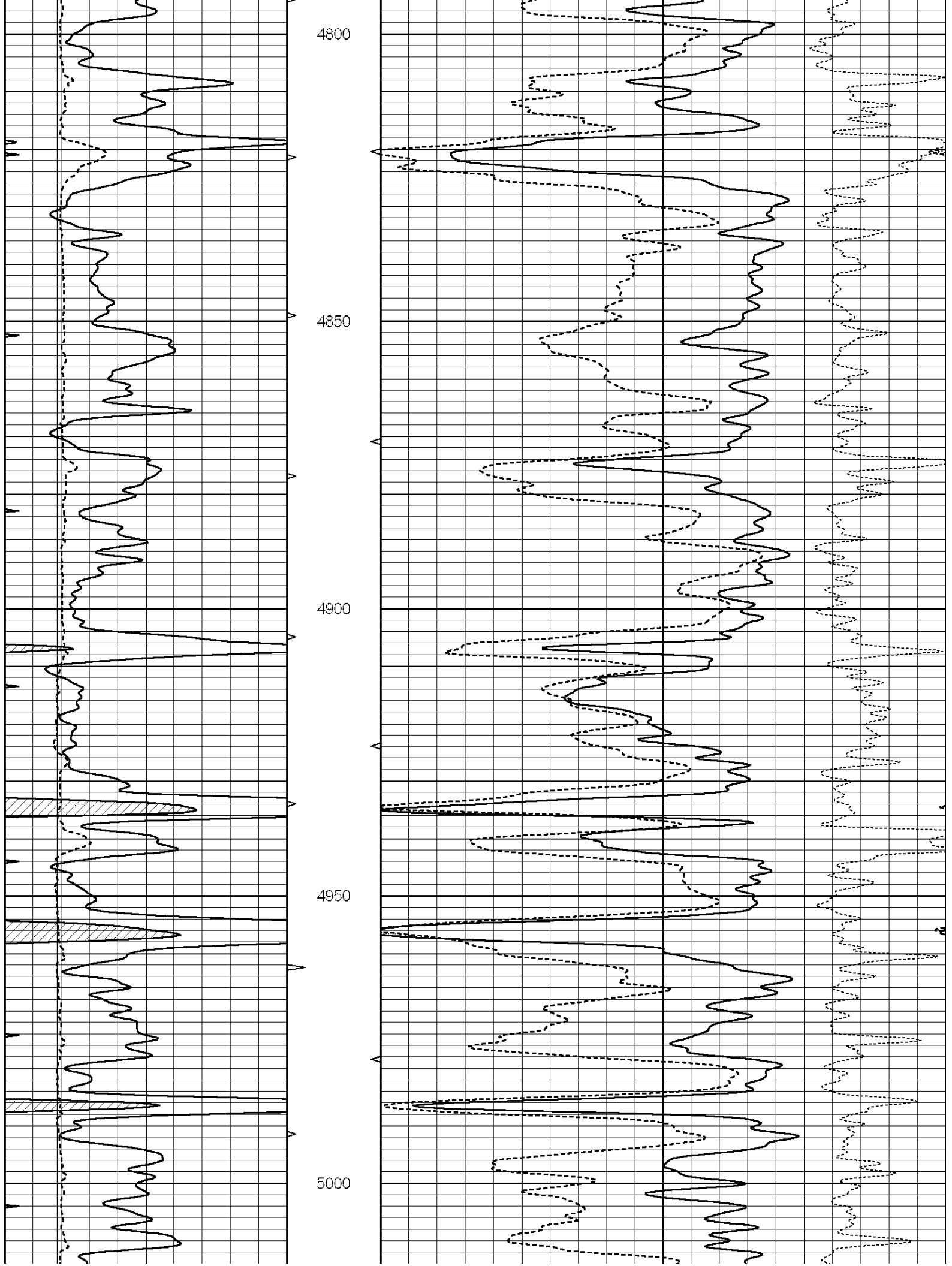
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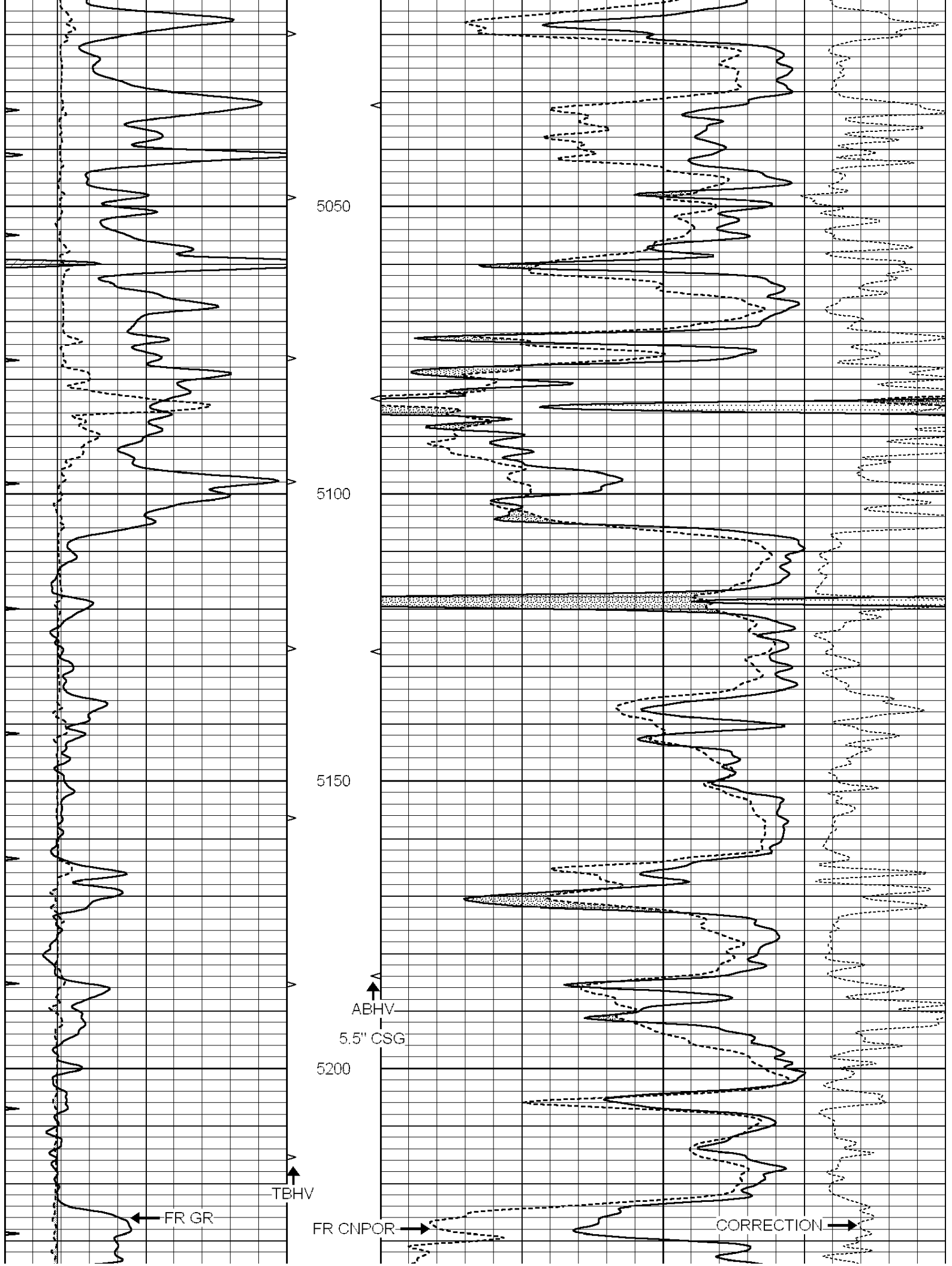


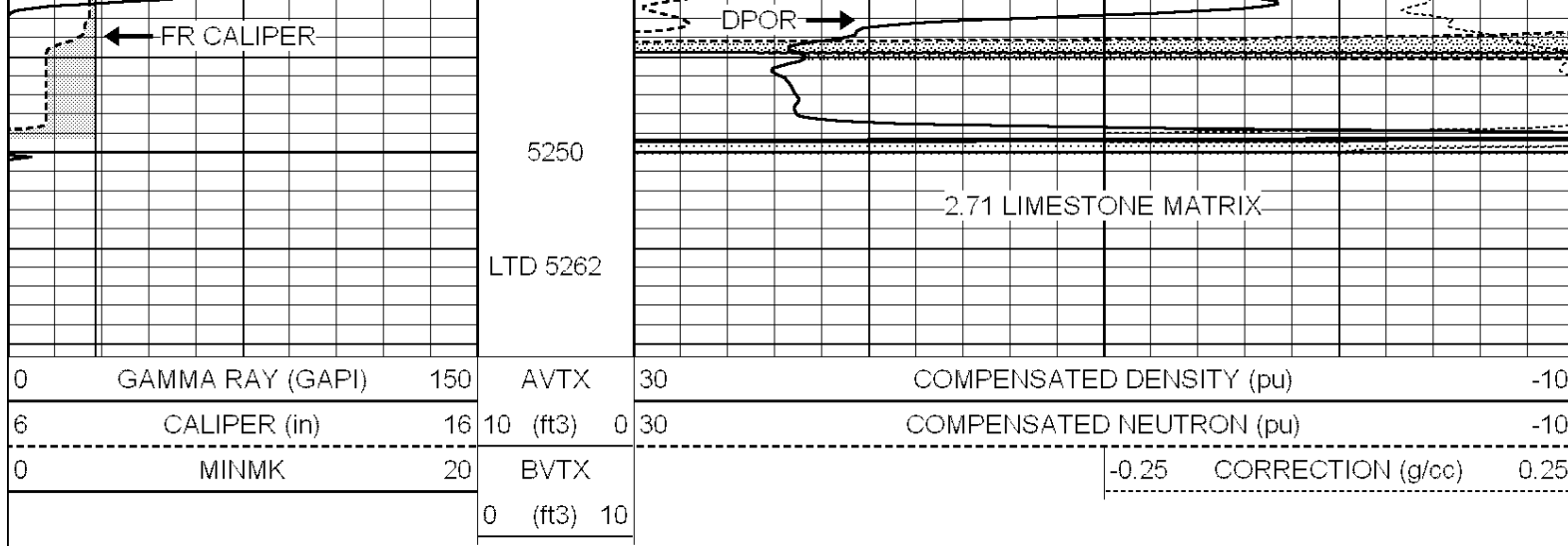












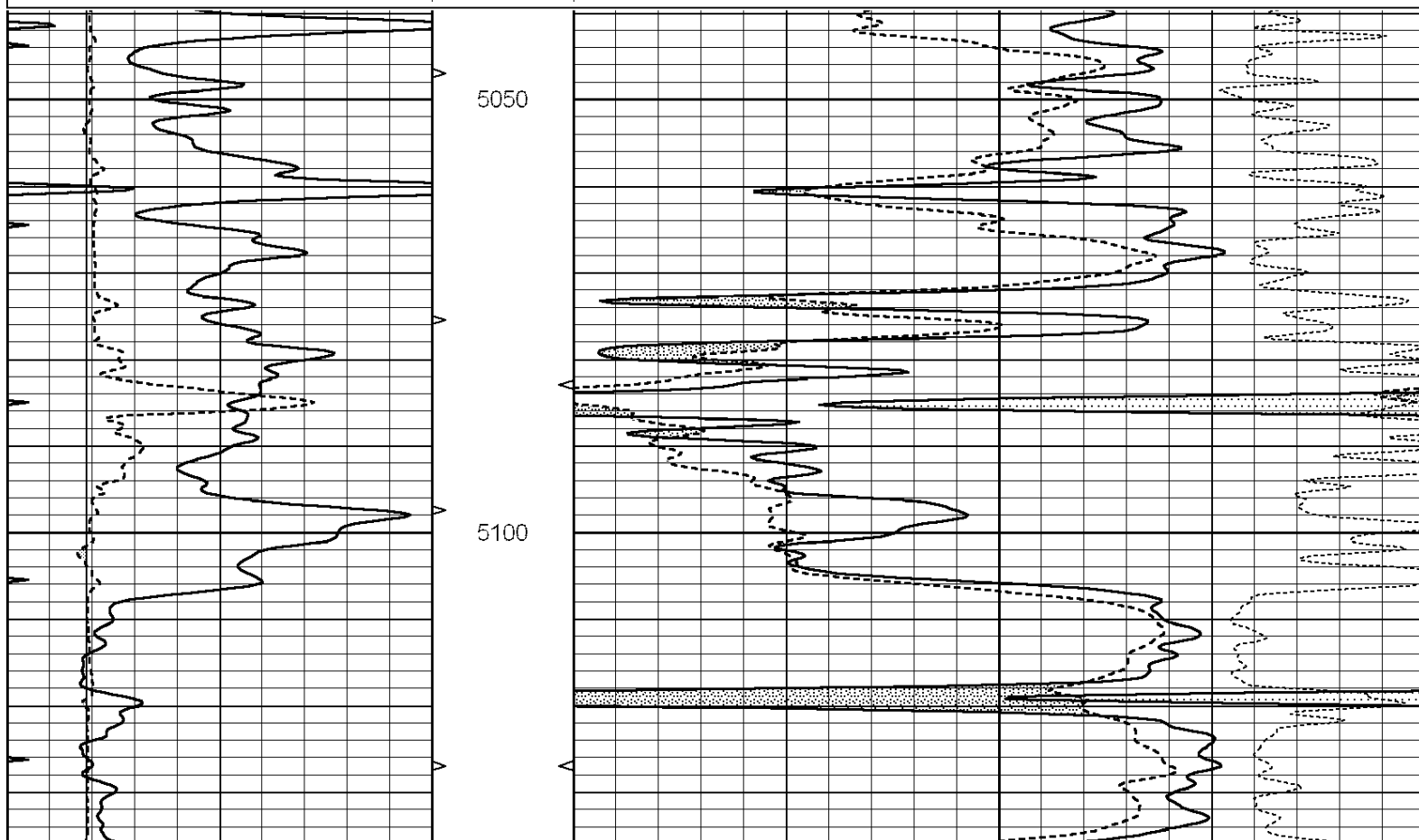
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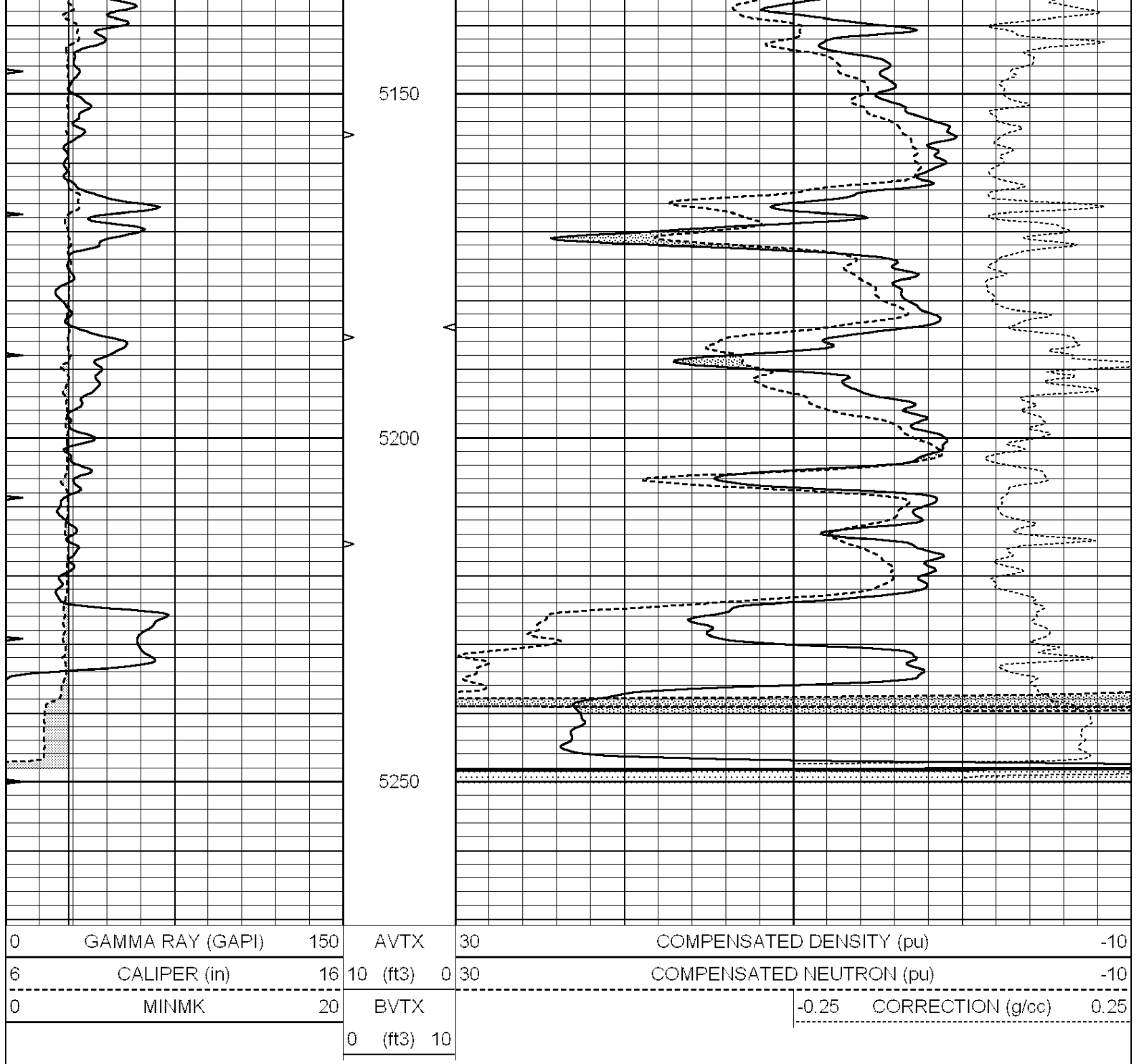
REPEAT SECTION

Database File: 009750ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: _den_neu
 Dataset Creation: Wed Oct 17 05:58:45 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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: 009750ddn.db
 Dataset Pathname: pass3.1
 Dataset Creation: Wed Oct 17 06:37:34 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

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
Shallow	0.000	0.700	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		

Compensated Density Calibration Report

Serial-Model:	GEAR4-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Mon Mar 19 19:07:19 2012

Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1015.91		497.51	cps	
Aluminum	2.600	g/cc		227.67		350.20	cps	
Spine Angle = 76.79				Density/Spine Ratio = 0.579				
	Size			Reading				
Small Ring	8.00	in		3.21	V			
Large Ring	14.00	in		5.46	V			

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