FISHER WIRELINE SERVICES INC.

DUAL INDUCTION RESISTIVITY LOG

Company	McGOWAN OIL COMPANY
Well	MONTGOMERY #2-1
Field	
County	CHAUTAUQUA State KANSAS
Location:	NE NW SE NE 1450' FNL & 940' FEL
	SEC: 1 TWP: 34S RGE: 8E API # : 15-019-27374
Recorded By :	D.GRAHAM, J.FISHER
Witnessed By :	D.McGOWAN, D.COX, B.COX, A.BROWN

Date	DECEMBER 16, 2013		Elevation
Run Number	ONE		
Depth Driller	2350'	K.B. :	
Depth Logger	2349'	D.F. :	
Bottom Logged Interval	2348'	G.L. :	929'
Top Log Interval	20'		Other Services
Casing Driller	8.625" @ 40'		
Casing Logger	8.625" @ 40'		DUCP
Bit Size	7.875"		
Type Fluid in Hole	MUD		
Density / Viscosity	9.3# / 48		
pH / Fluid Loss	NA / NA		
Source of Sample	PIT		
Rm @ Meas. Temp	5.0 / 56deg.		
Rmf @ Meas. Temp	4.0 / 56deg.		
Rmc @ Meas. Temp	6.0 / 56deg.		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	2.8 / 100deg.		
Equipment Number	47		
Location	HOMINY		

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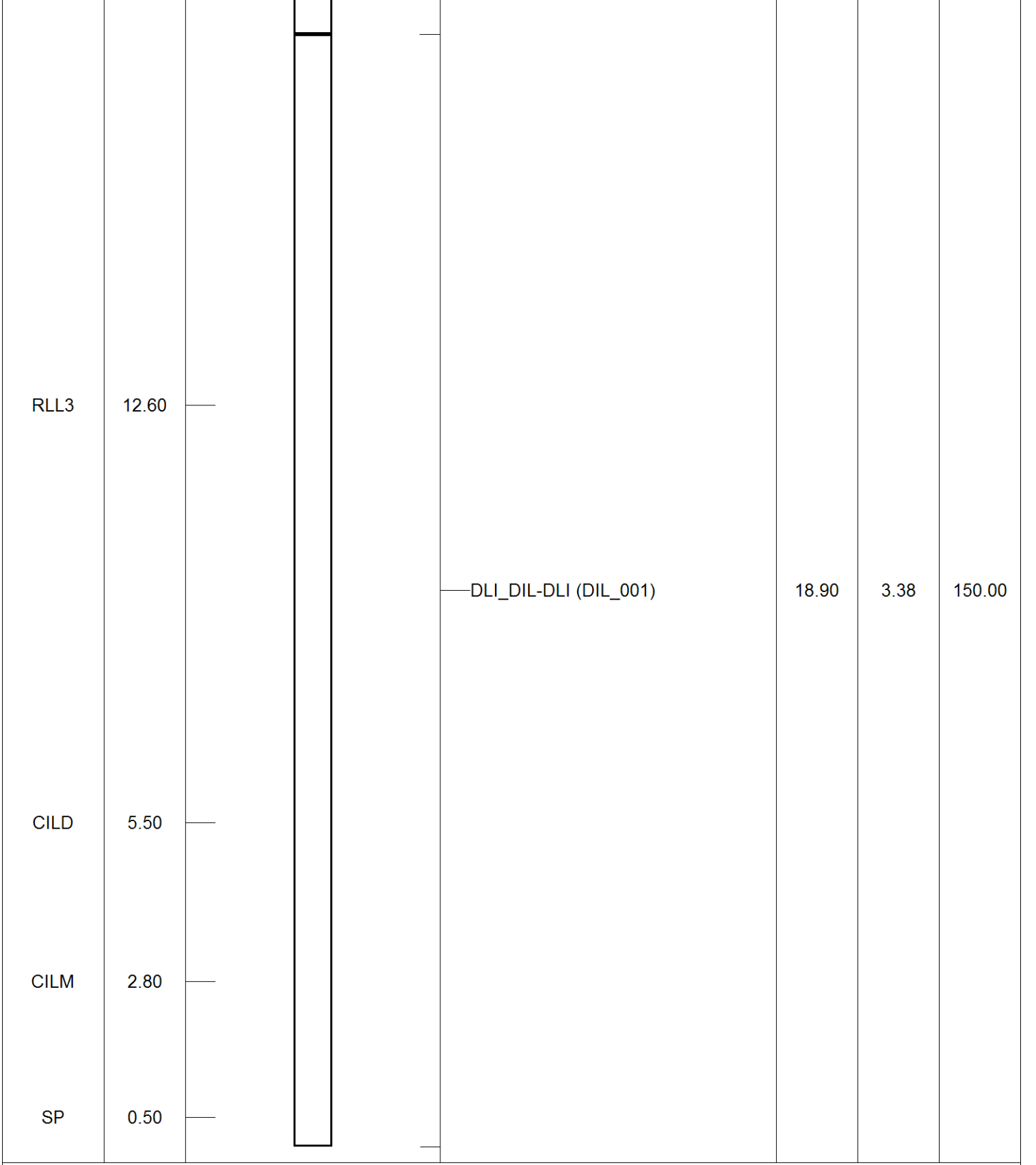
Comments

BOREHOLE AND ANNULAR VOLUME MARKS PRESENTED ON DENSITY PLOT.
ANNULAR VOLUME CALCULATED FOR 5.500" CASING.
THANK YOU FOR USING FWS, INC. HOMINY, OKLAHOMA. 918 885 6564

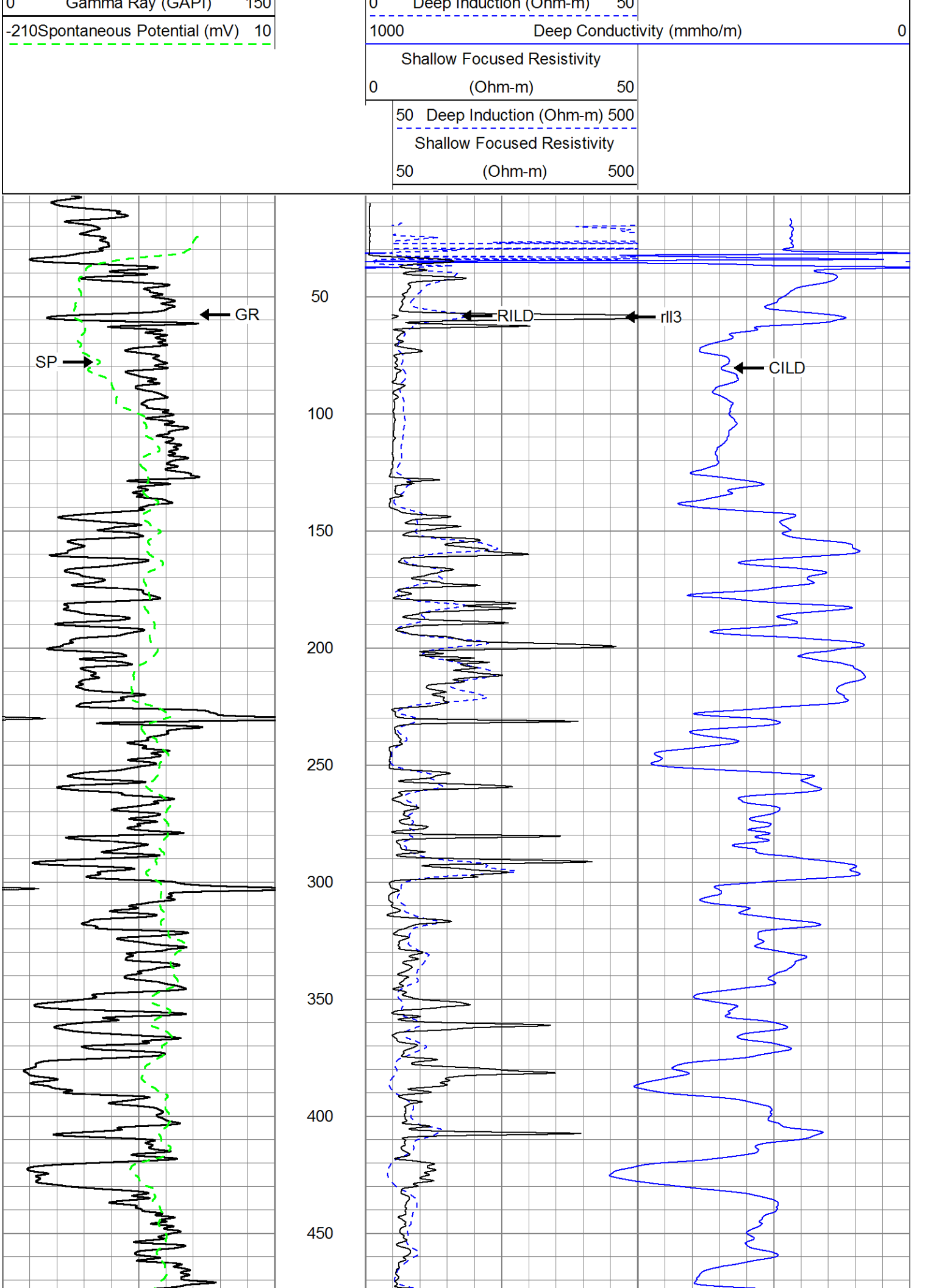
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	20.40		DLI_GR-DLI (GR_001)	3.00	3.38	30.00

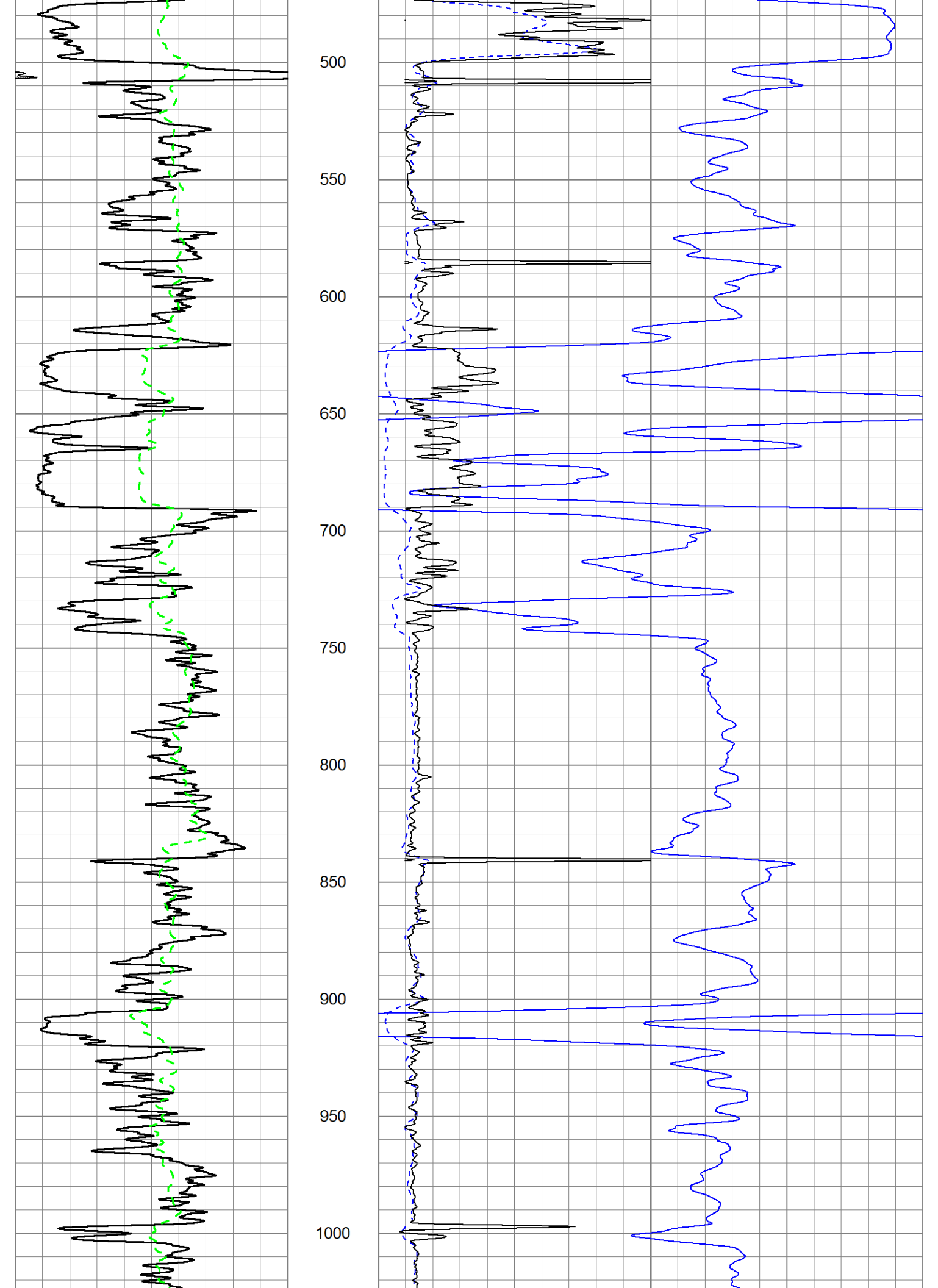


Dataset:	mcgowan4375.db: field/well/run3/pass2AB
Total Length:	21.90 ft
Total Weight:	180.00 lb
O.D.	3.38 in

Database File:	mcgowan4375.db
Dataset Pathname:	run3/pass2AB
Presentation Format:	siln_2
Dataset Creation:	Mon Dec 16 06:27:51 2013
Charted by:	Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150		0 Deep Induction (Ohm-m) 50


0 Gamma Ray (GAPI) 150
-210 Spontaneous Potential (mV) 10
0 Deep Induction (Ohm-m) 50
1000 Deep Conductivity (mmho/m) 0
Shallow Focused Resistivity
0 (Ohm-m) 50
50 Deep Induction (Ohm-m) 500
Shallow Focused Resistivity
50 (Ohm-m) 500
GR
SP
RILD
rll3
CILD
50
100
150
200
250
300
350
400
450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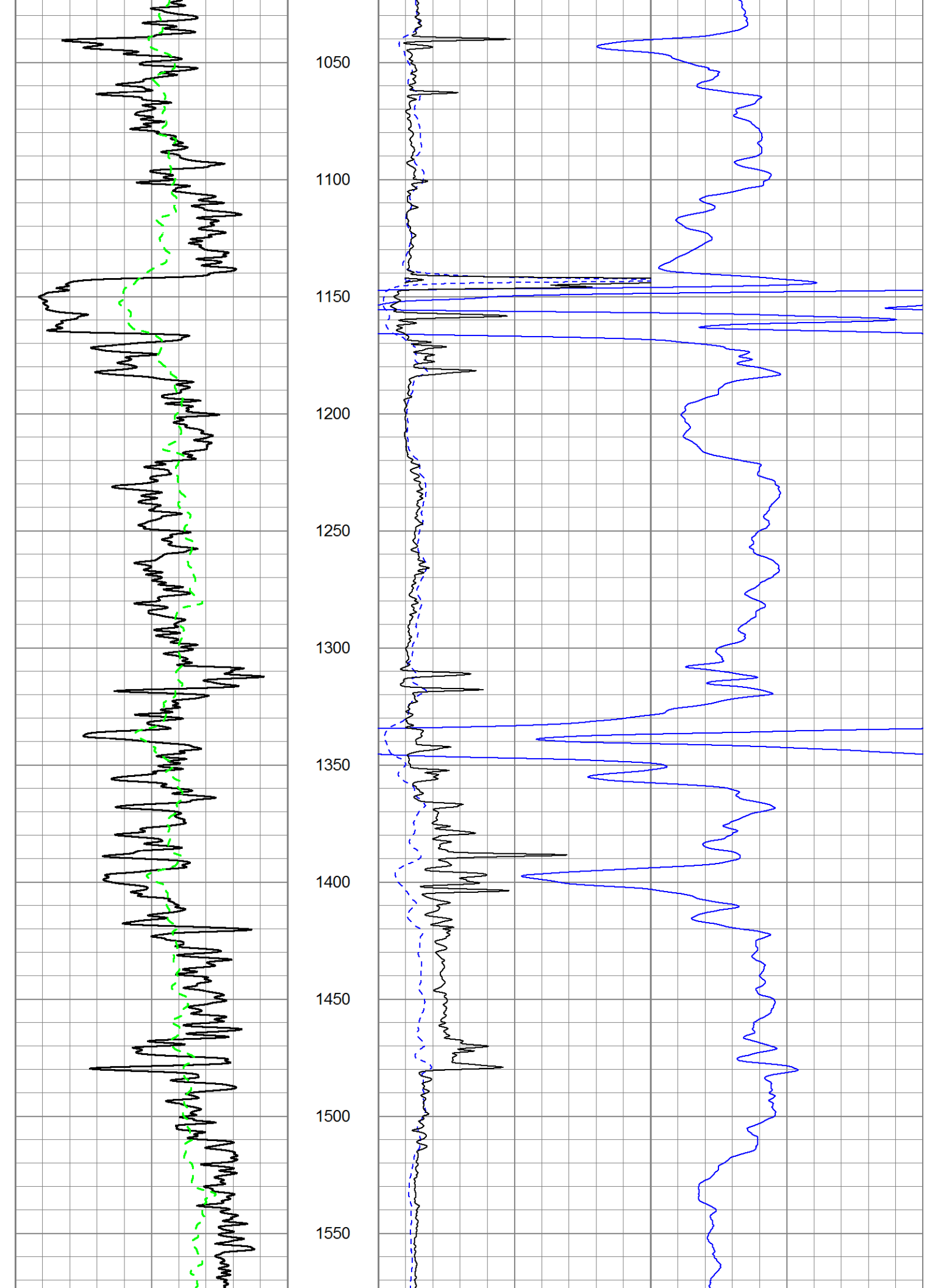
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1300
1350
1400
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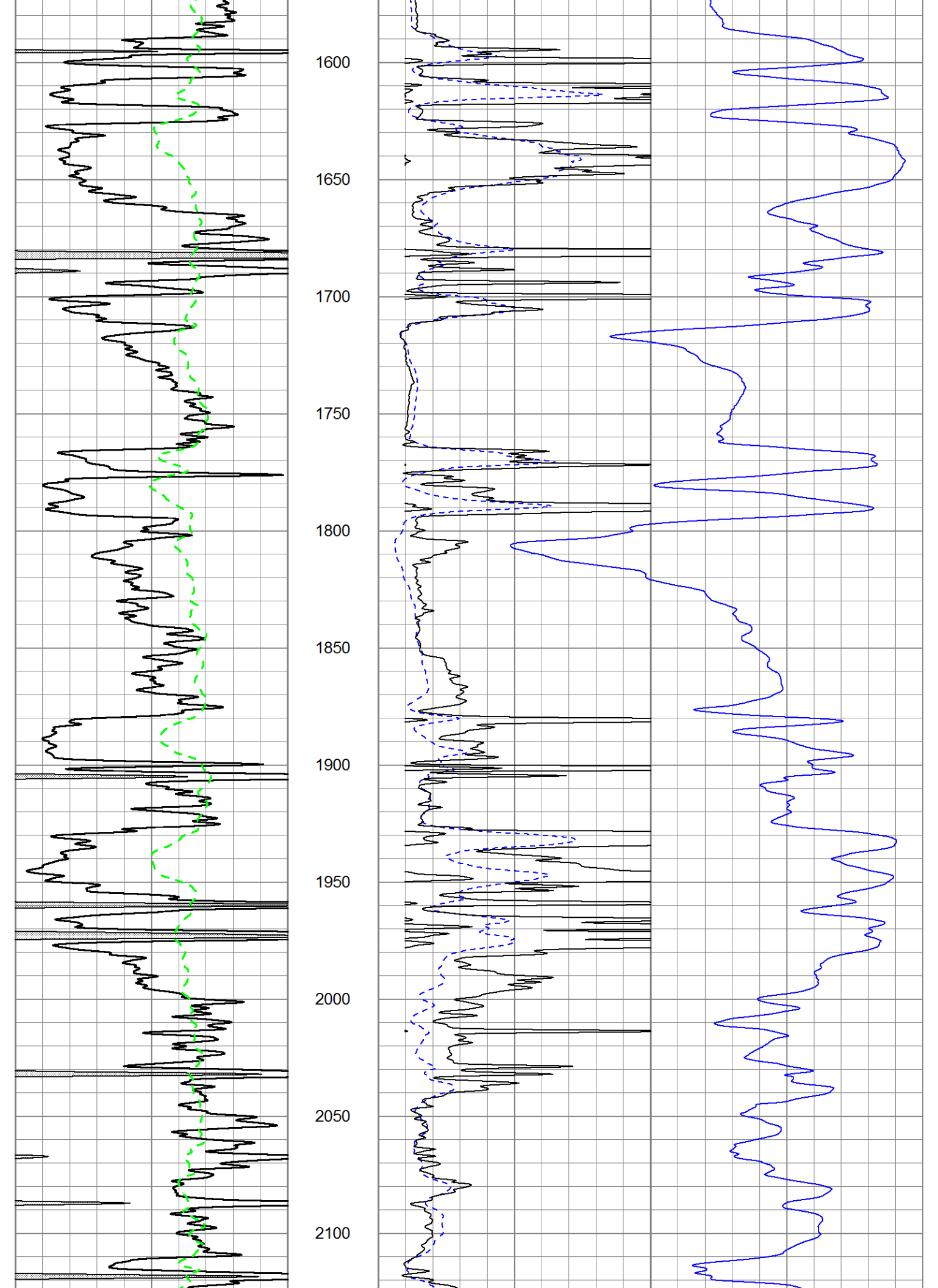
1500
1550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2050
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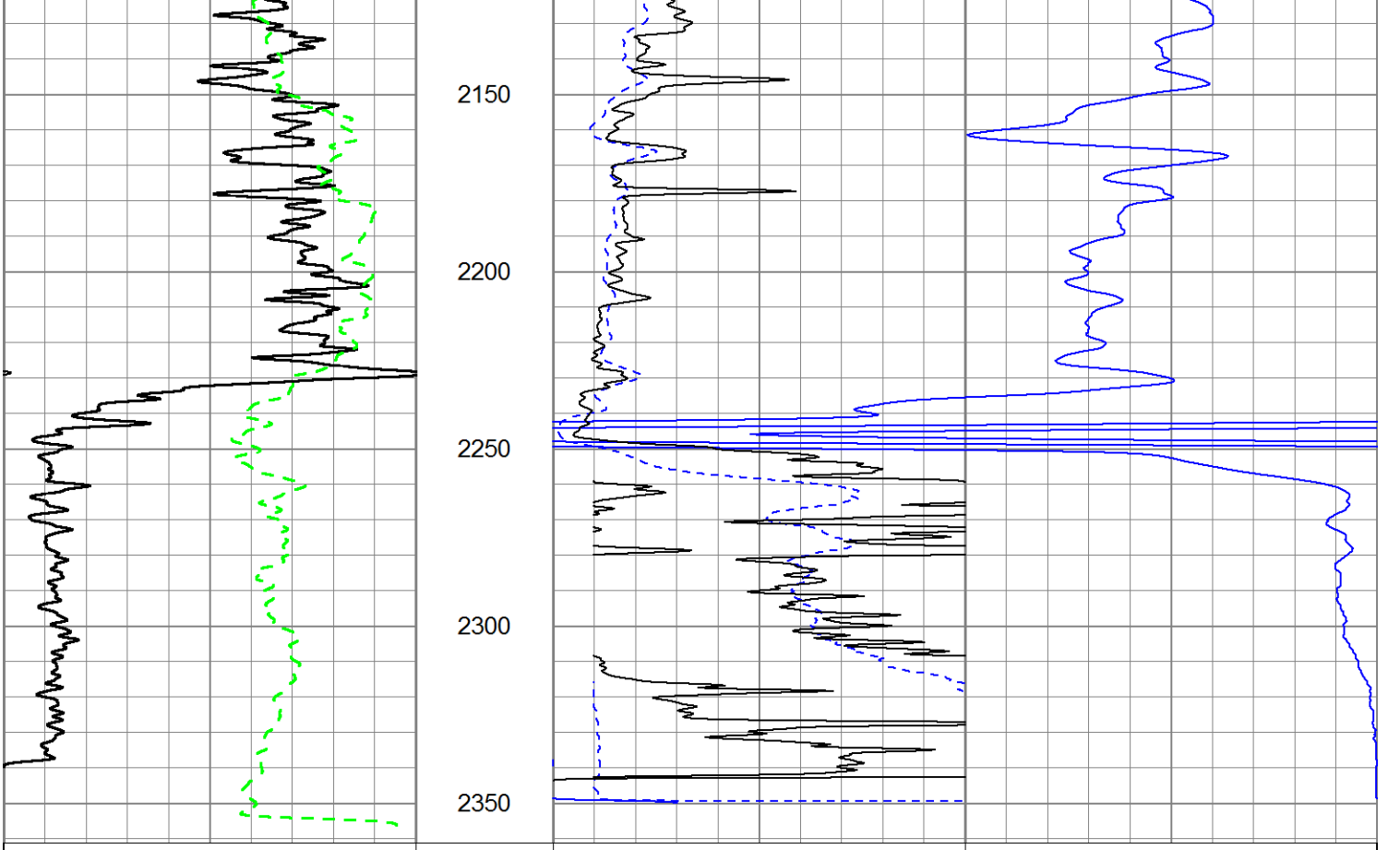
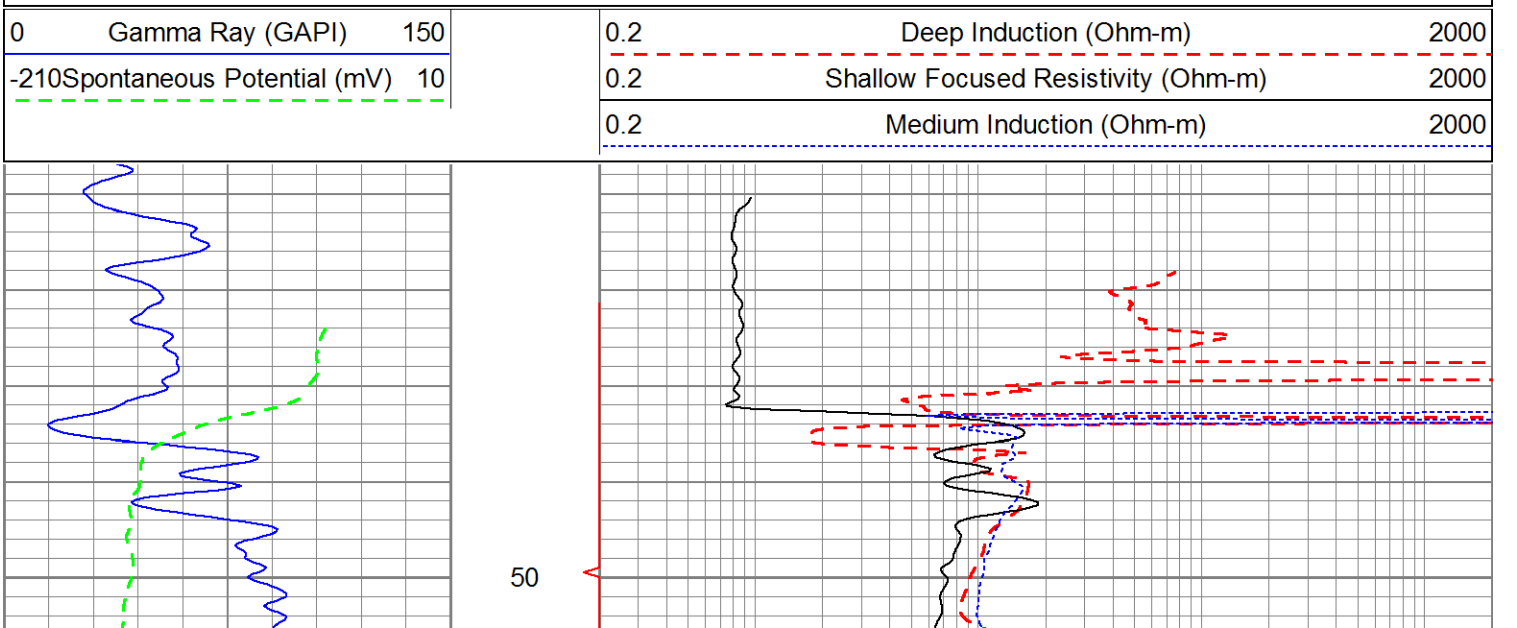
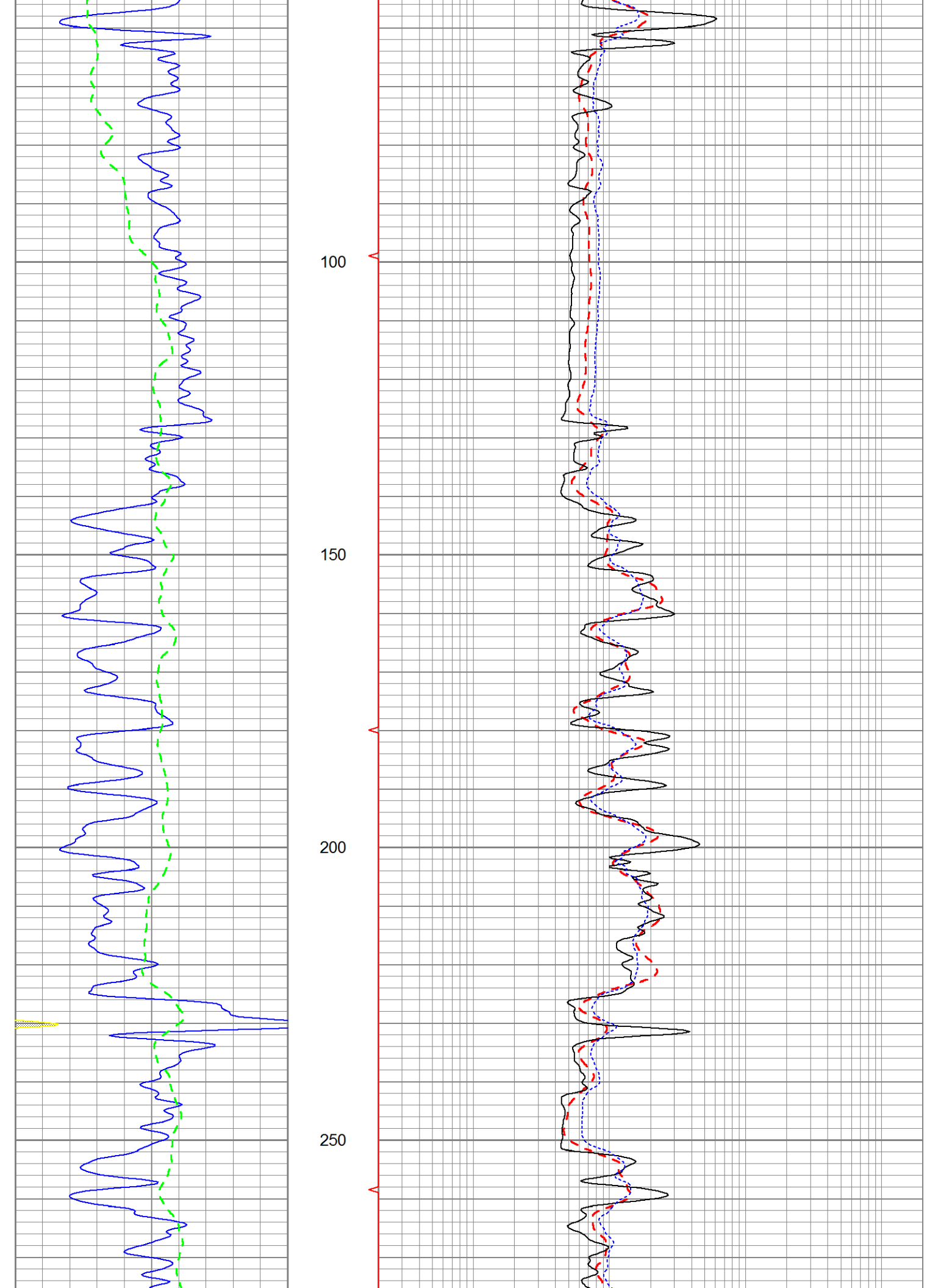


Database File: mcgowan4375.db
Dataset Pathname: run3/pass2AB
Presentation Format: dil
Dataset Creation: Mon Dec 16 06:27:51 2013
Charted by: Depth in Feet scaled 1:240

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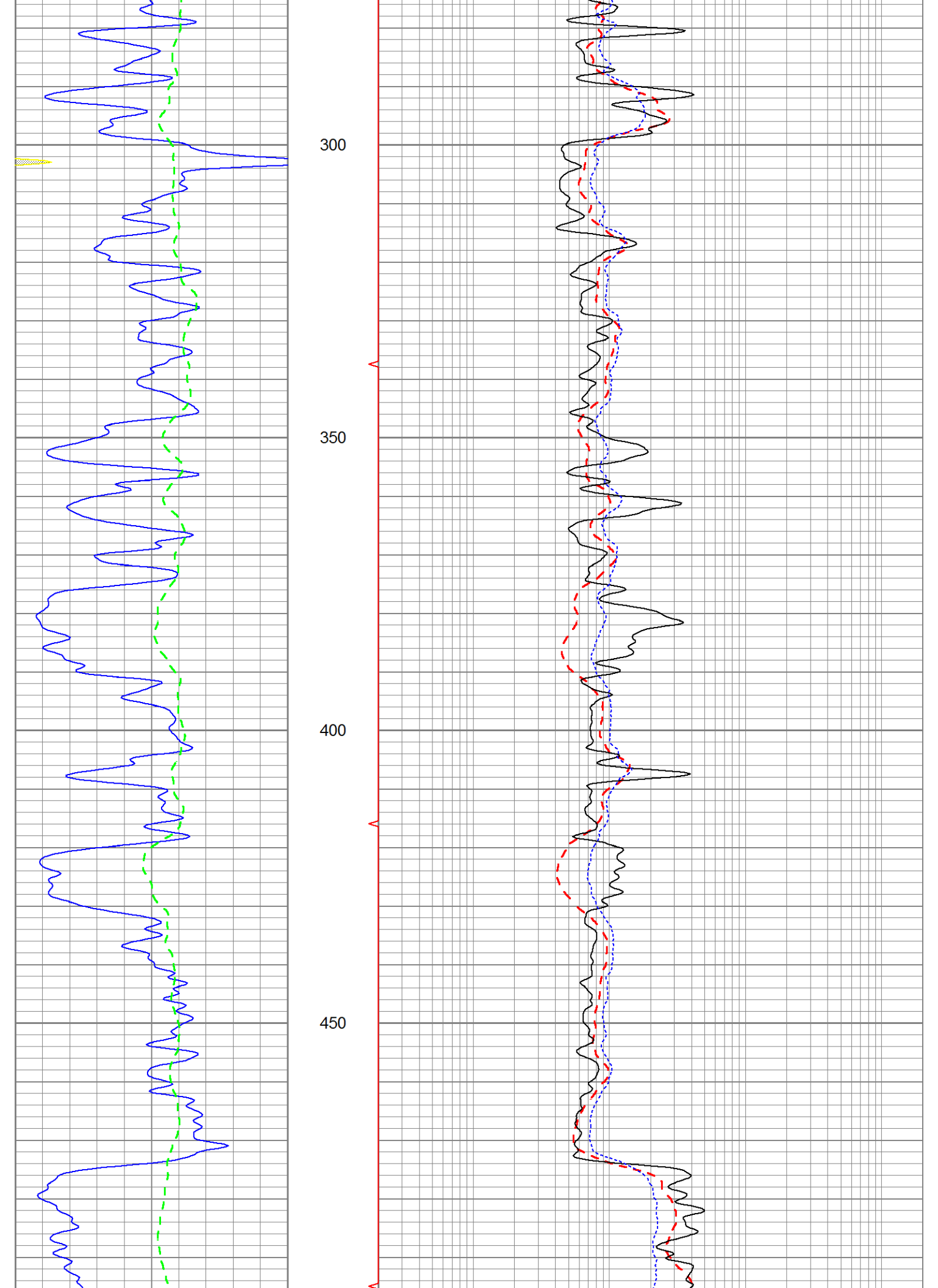
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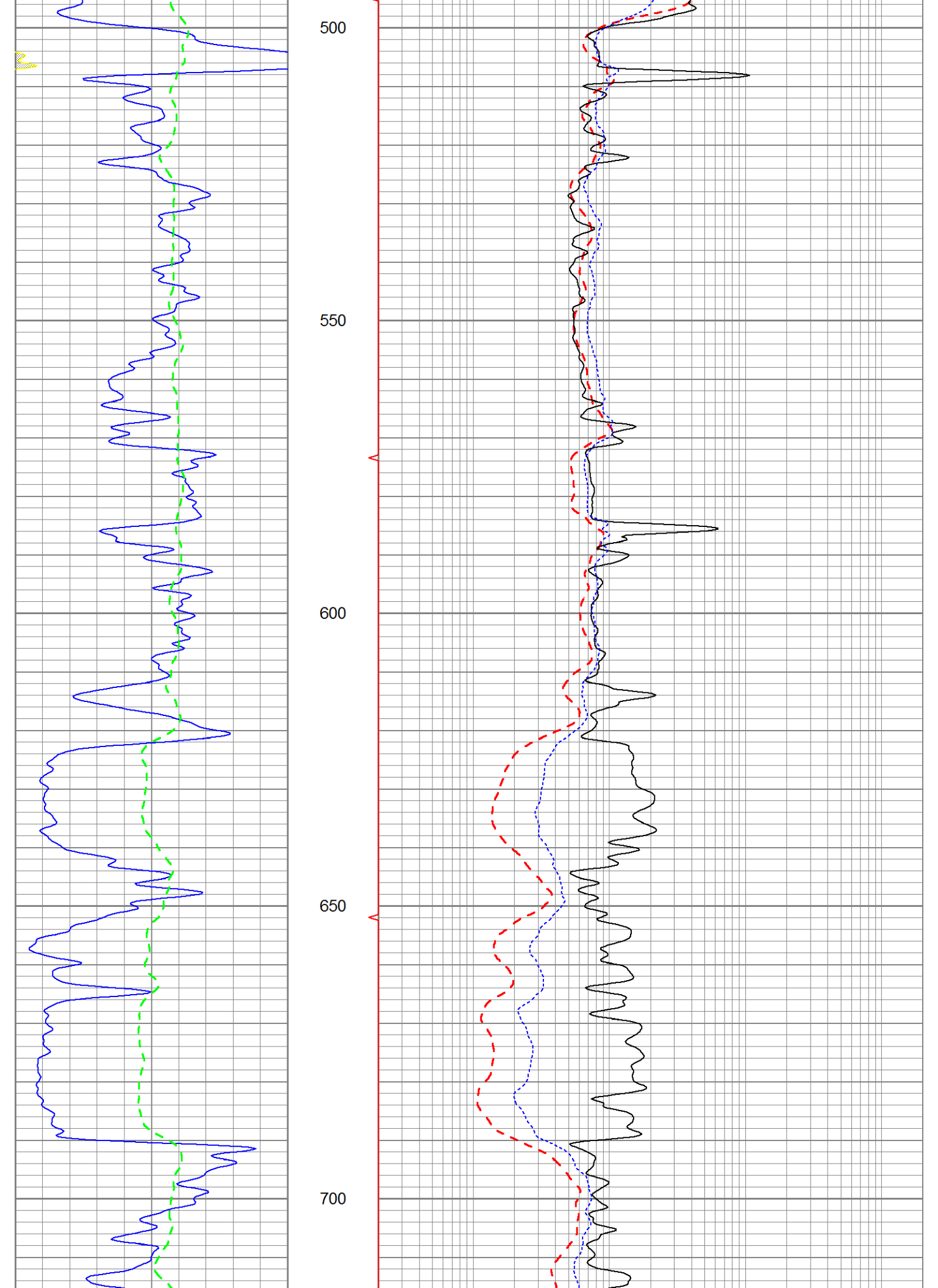
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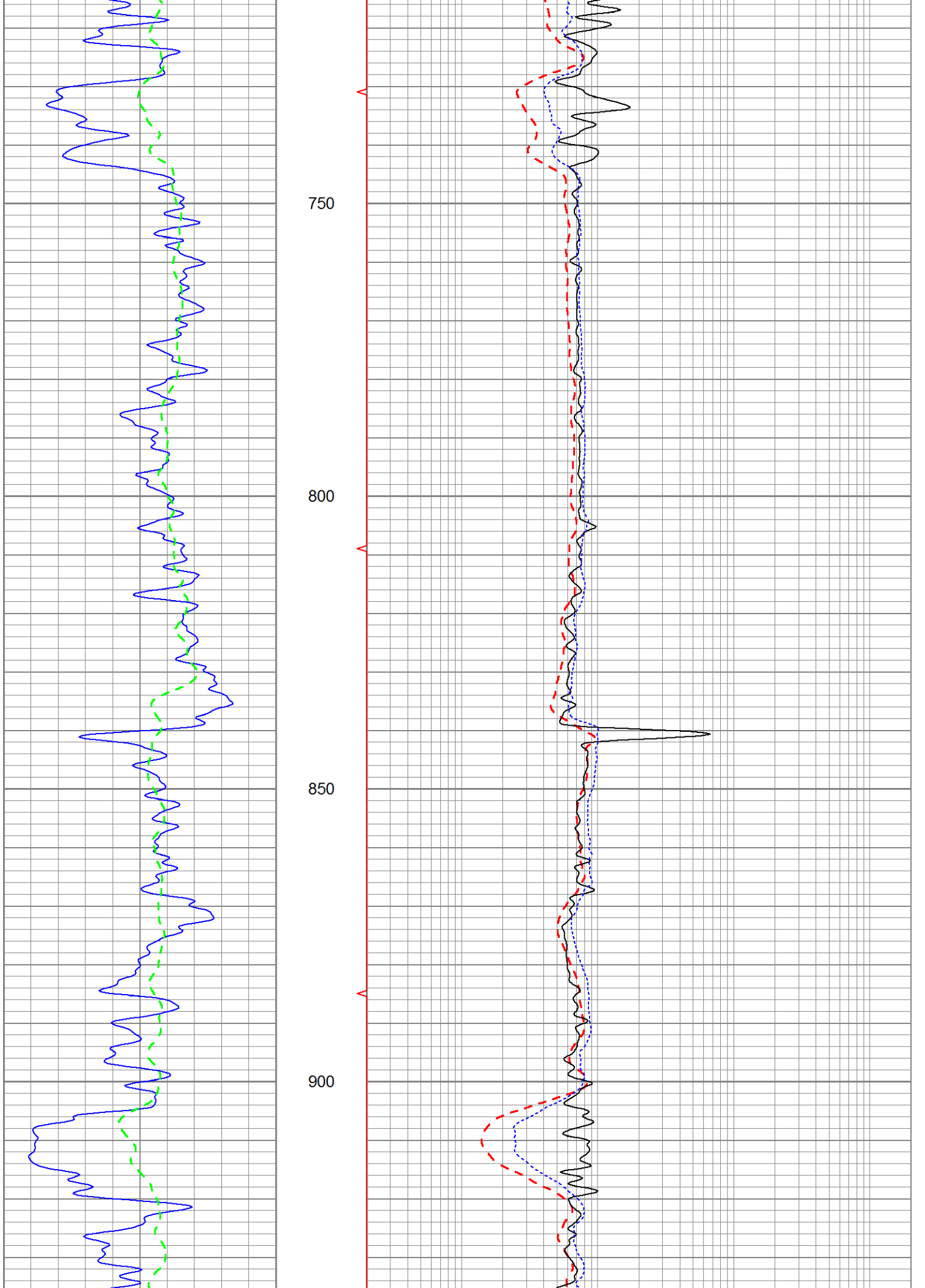
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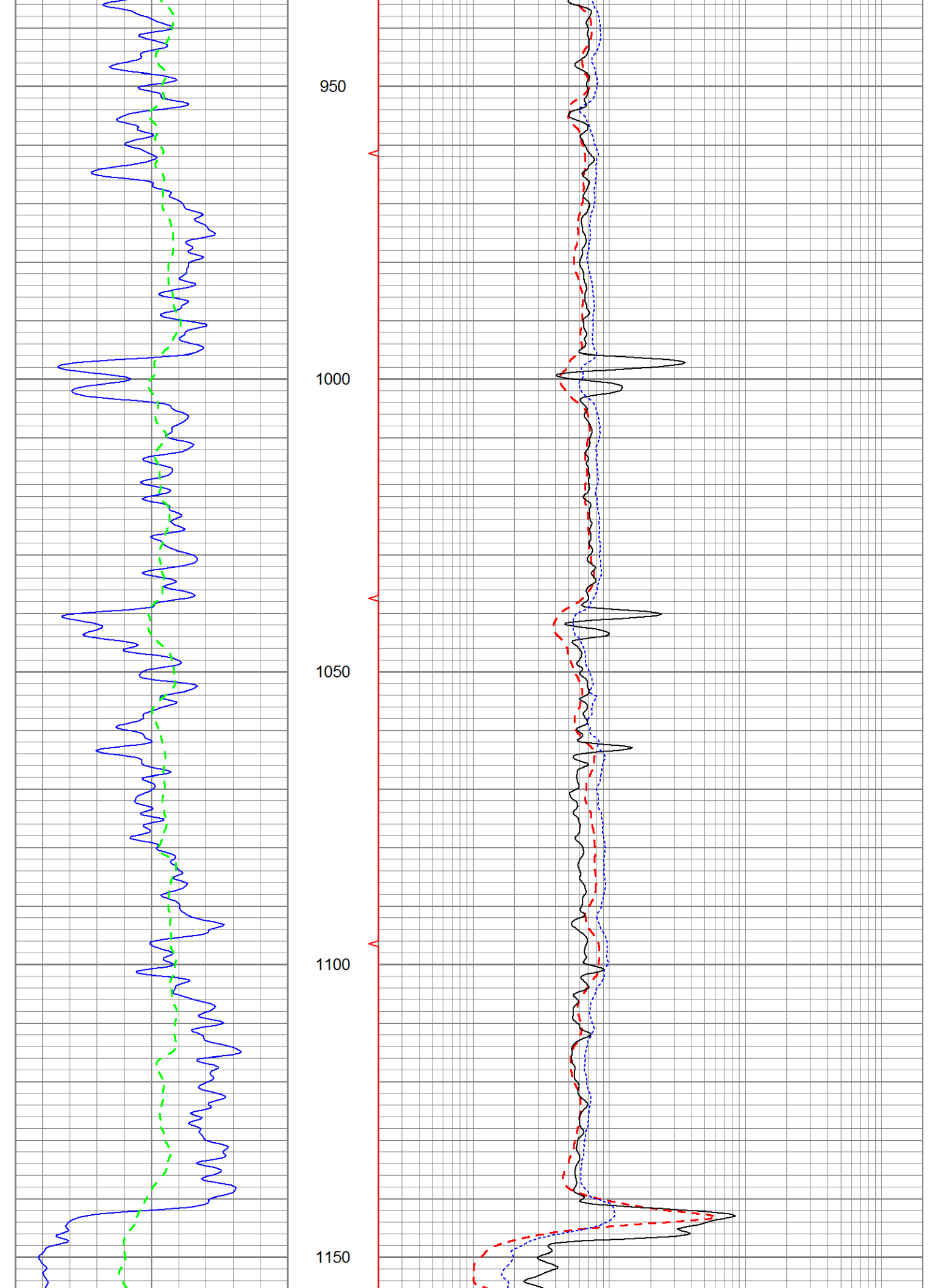
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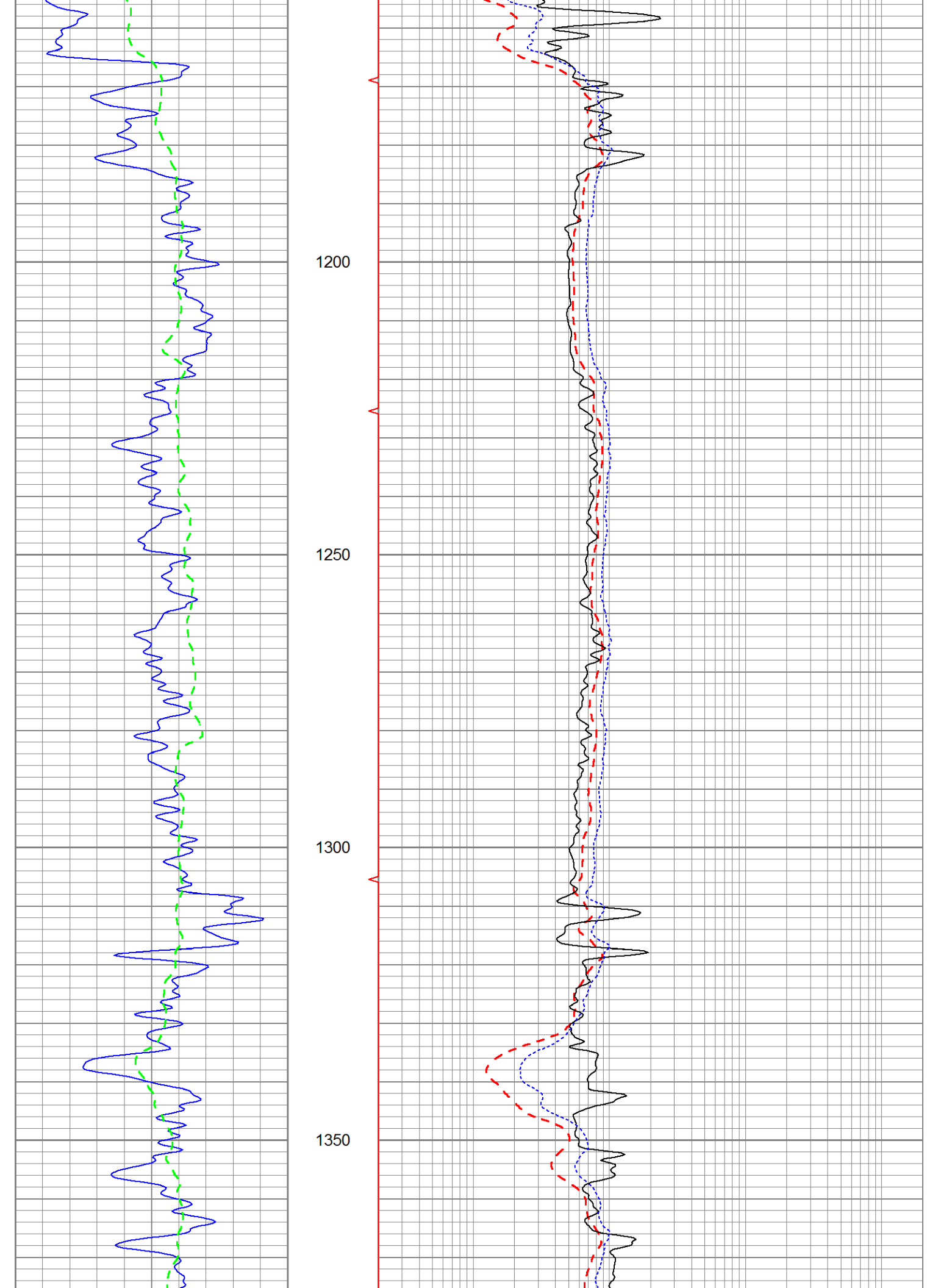
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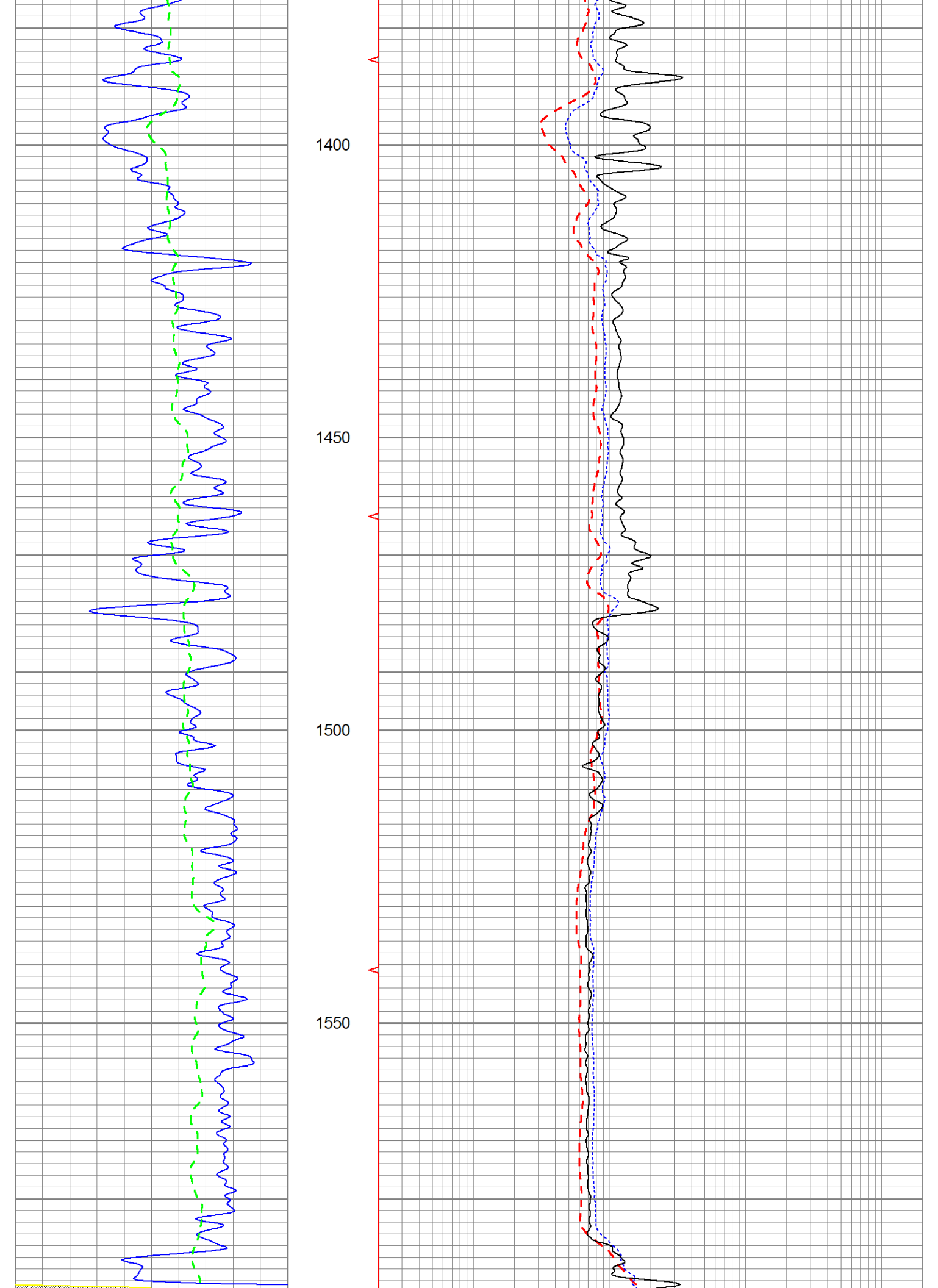
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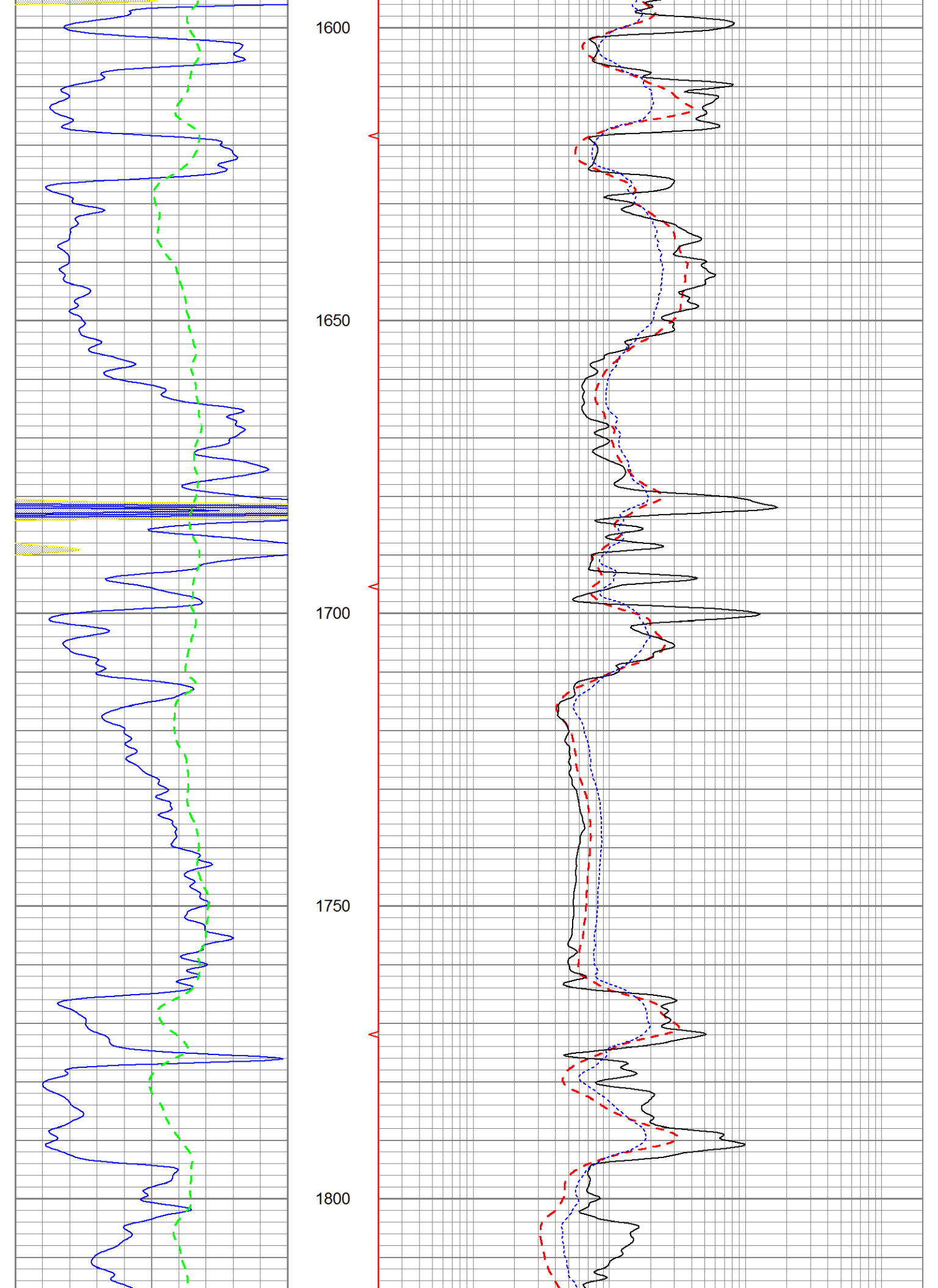
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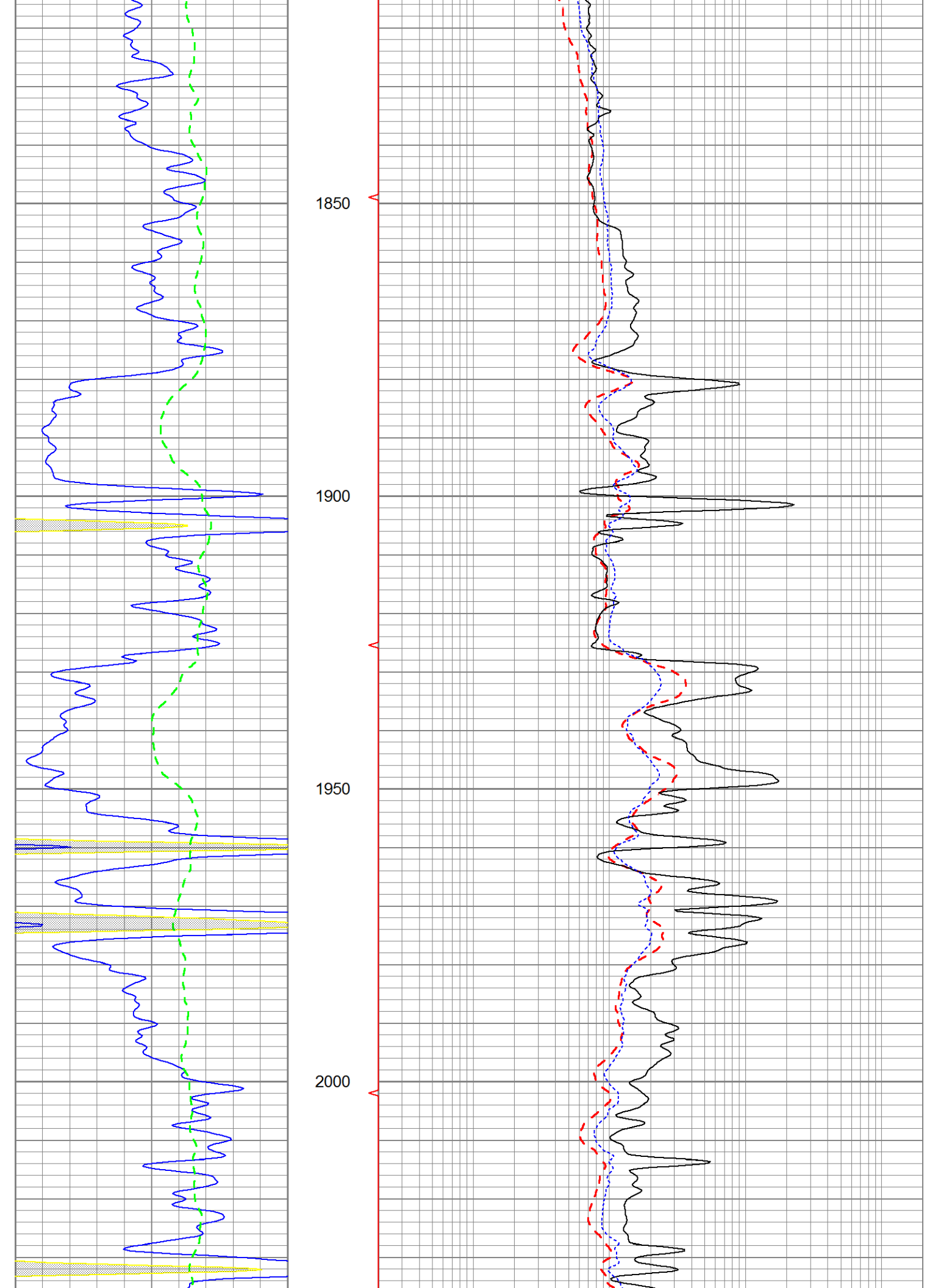
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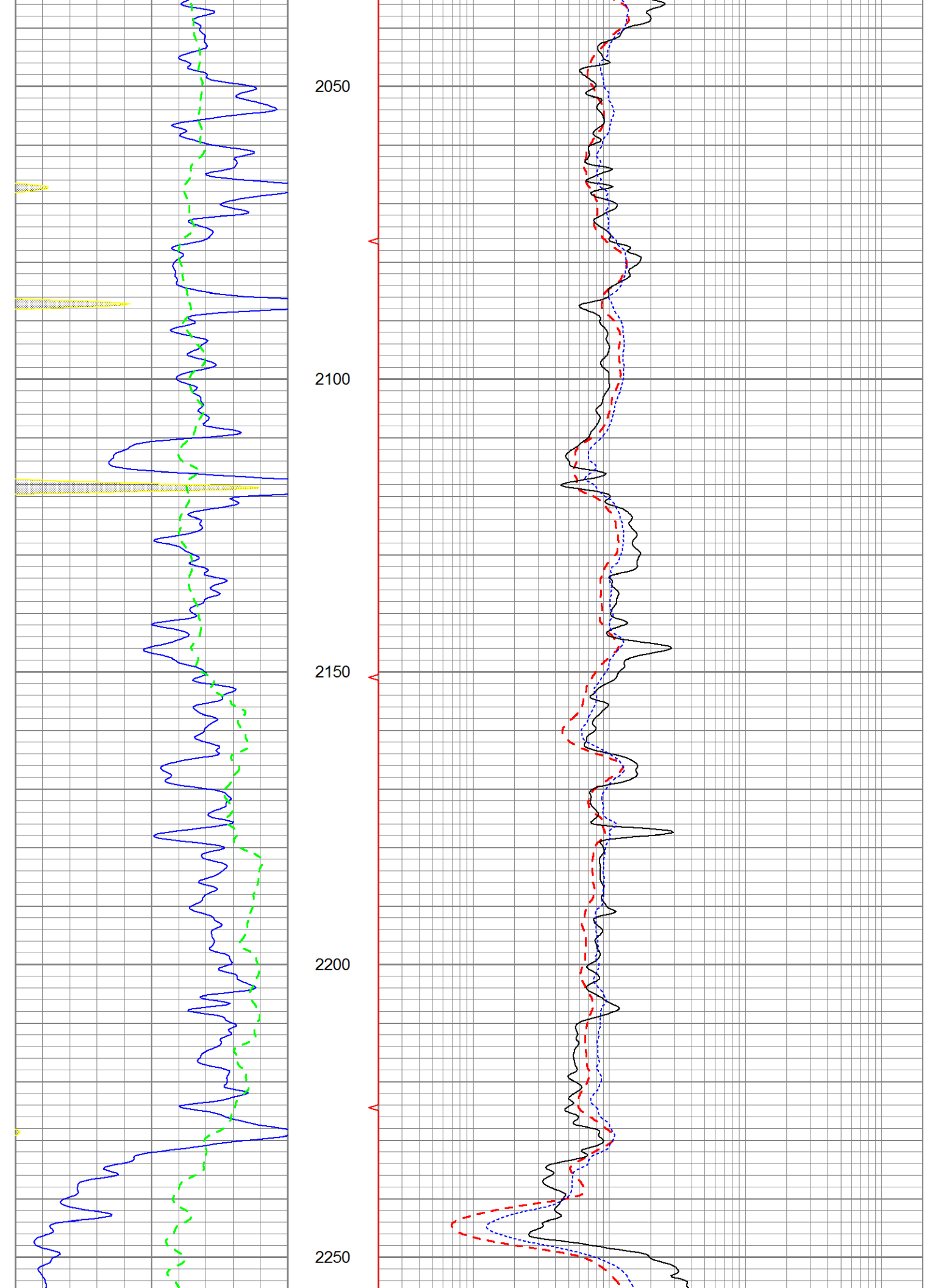
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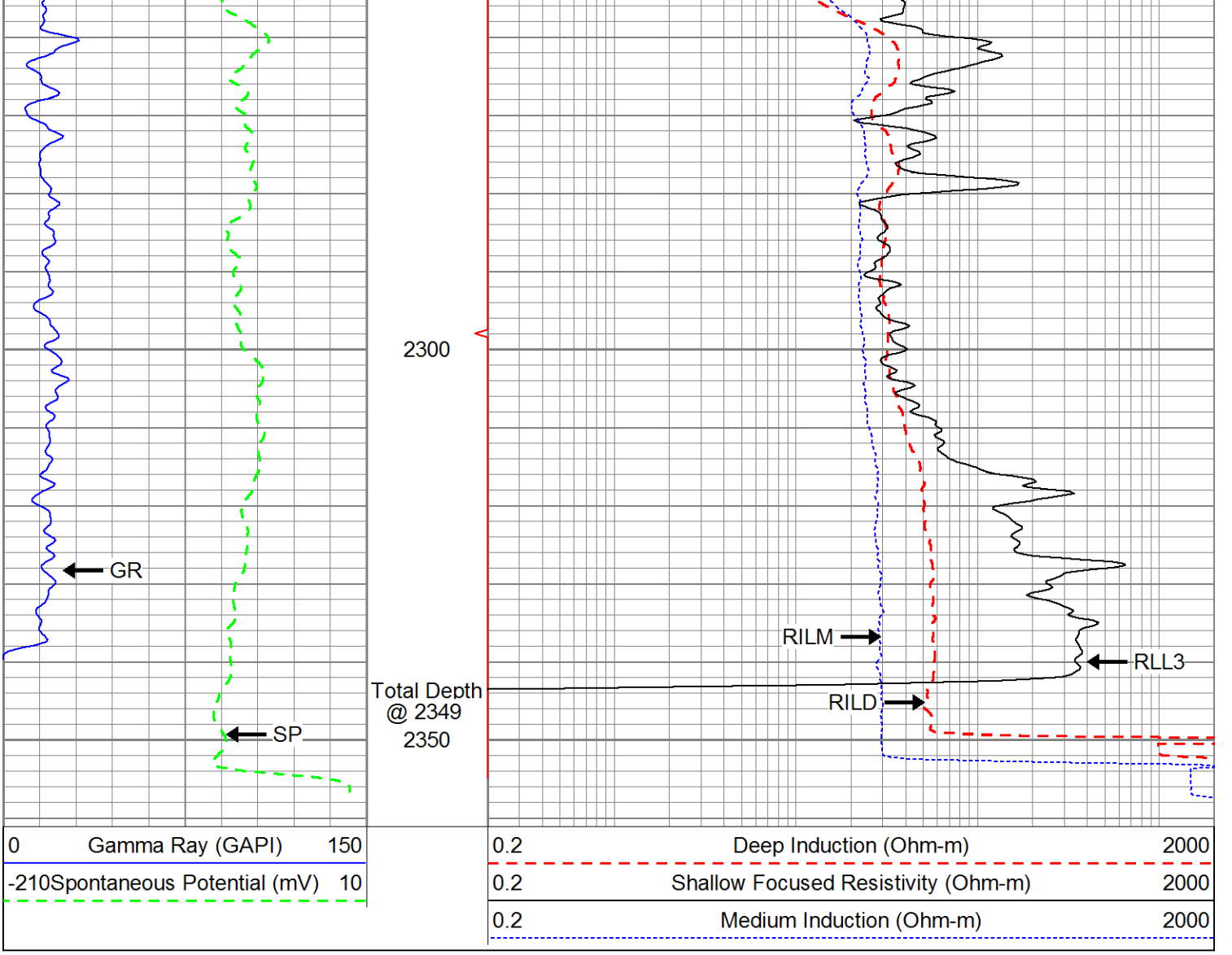

Calibration Report

Database File: mcgowan4375.db
Dataset Pathname: run3/pass2AB
Dataset Creation: Mon Dec 16 06:27:51 2013

Dual Induction Calibration Report

Serial-Model: DIL_001-DLI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	526.000	1757.000	0.000	402.000	mmho/m	0.450	-151.550
Medium	425.000	2700.000	0.000	650.000	mmho/m	0.350	-162.500

Gamma Ray Calibration Report

Serial Number: GR_001
Tool Model: DLI
Performed: Thu Jun 06 09:55:54 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading:	1.0	cps
Sensitivity:	0.5000	GAPI/cps