PIONEER

Pioneer Energy Services

DUAL IND / DUAL COMP POROSITY LOG

Company SUEMAUR EXPLO. & PROD., LLC
Well CAMPBELL NO. 1
Field WILDCAT
County SHERIDAN
State KANSAS

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Field WILDCAT
County SHERIDAN State KANSAS

Location: API # : 15-179-21,413-00-00
1,448' FSL & 546' FWL
SEC 3 TWP 7S RGE 28W

Other Services: MEL, BHCS

Elevation: K.B. 2772', D.F. N/A, G.L. 2767'

Permanent Datum: GROUND LEVEL Elevation 2767'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Date	12/7/2015		
Run Number	ONE		
Depth Driller	4510'		
Depth Logger	4511'		
Bottom Logged Interval	4510'		
Top Log Interval	300'		
Casing Driller	8.625" @ 333'		
Casing Logger	334'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	1800		
Density / Viscosity	9.3 / 76		
pH / Fluid Loss	11.0 / 6.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	.90 @ 60		
Rmf @ Meas. Temp	.68 @ 60		
Rmc @ Meas. Temp	1.22 @ 60		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.45 @ 121		
Operating Rig Time	5 HOURS		
Max Rec. Temp. F	121 DEG F		
Equipment Number	108		
Location	Hays		
Recorded By	J. LONG	J. HENRICKSON	
Witnessed By	BOB PETERSEN		

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

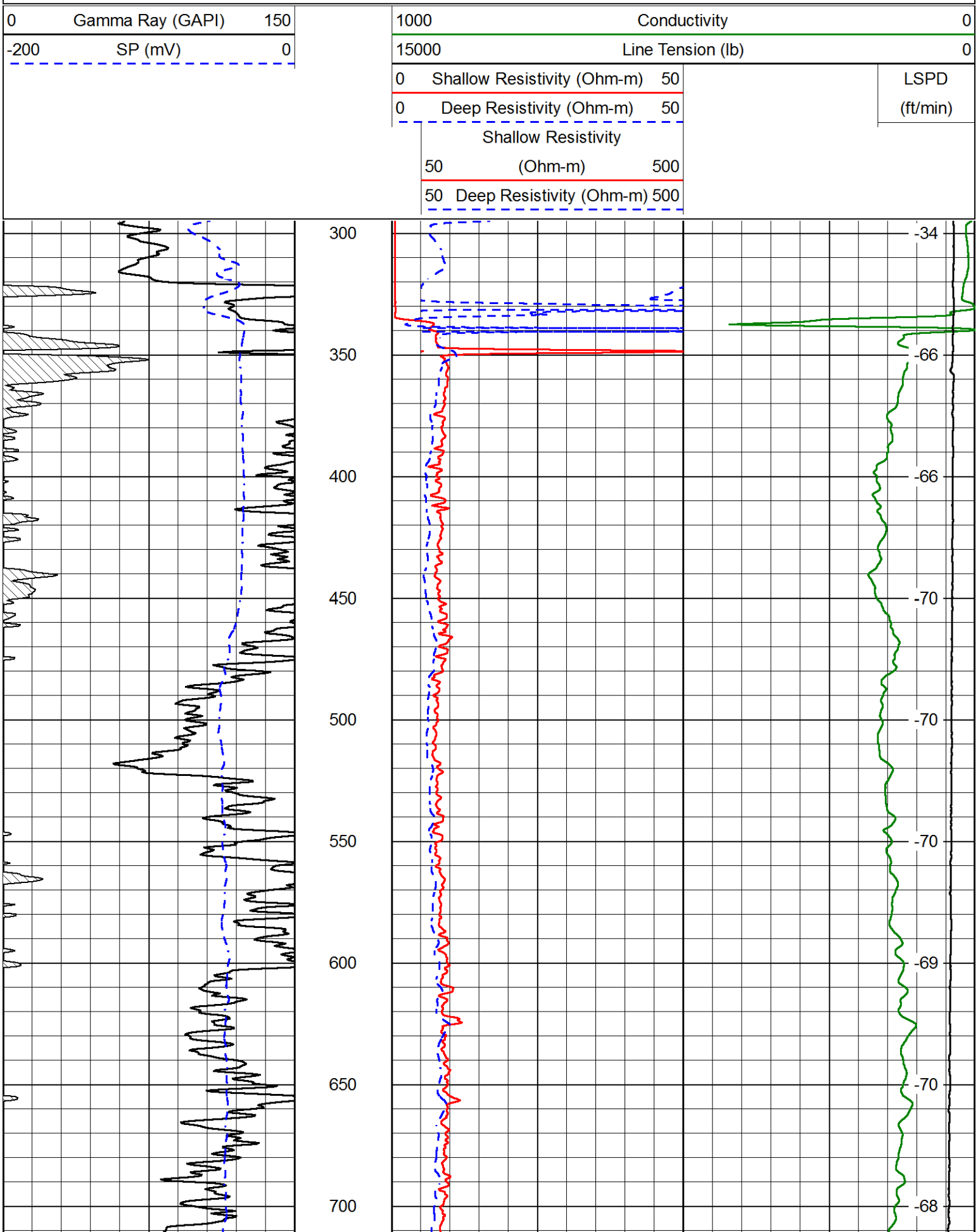
HOXIE, 8 NORTH TO ROAD 80 N, 1/8 EAST,
NORTH INTO (FOLLOW EDGE OF FIELD WEST AND NORTH)

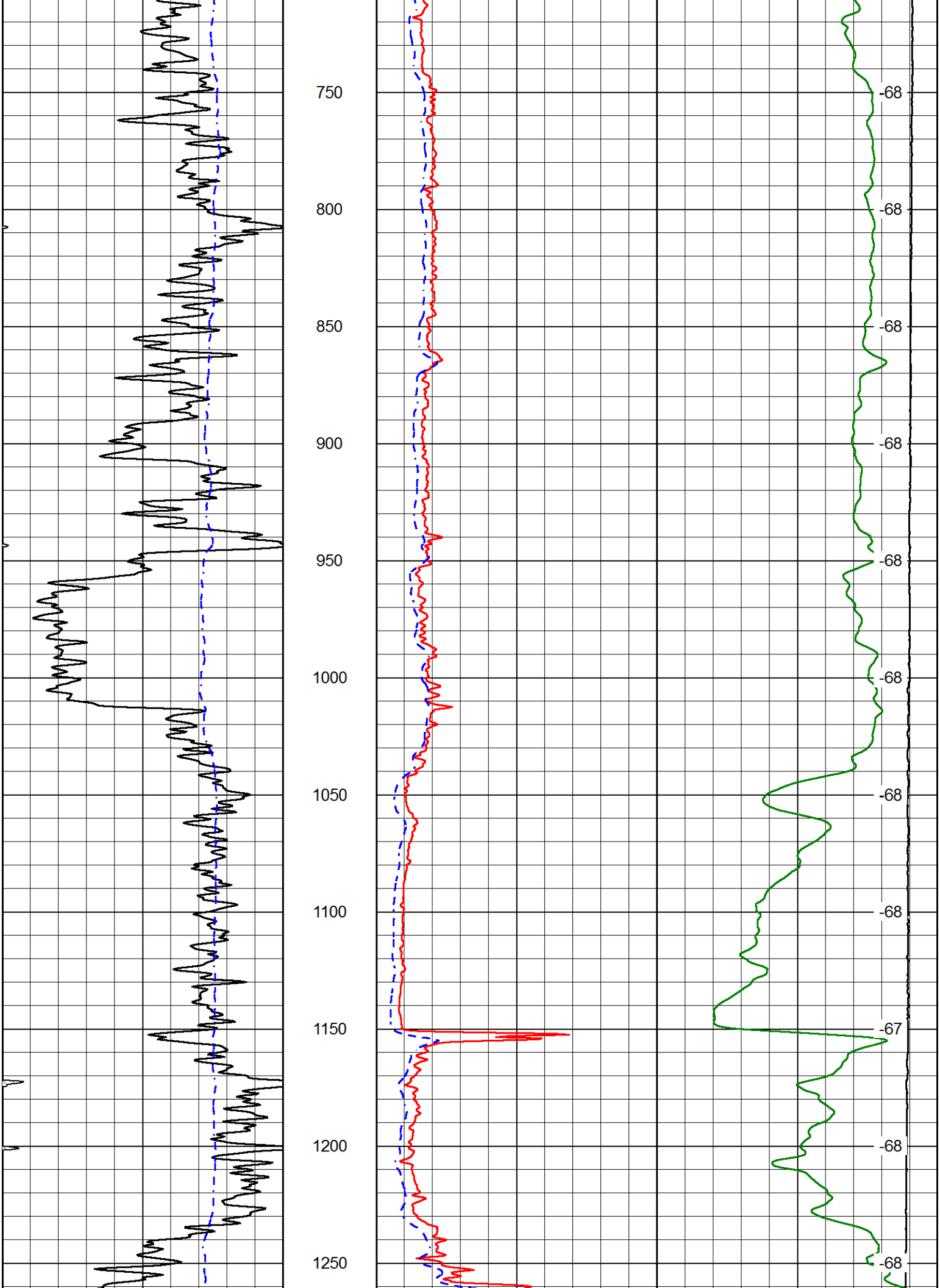
Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. LONG	Primary Witness: BOB PETERSEN
Operator: J. HENRICKSON	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Database File	suemaur_campbell_1hd.db
Dataset Pathname	DILDUCP/suestck2
Presentation Format	dil2in
Dataset Creation	Mon Dec 07 22:37:21 2015
Charted by	Depth in Feet scaled 1:600

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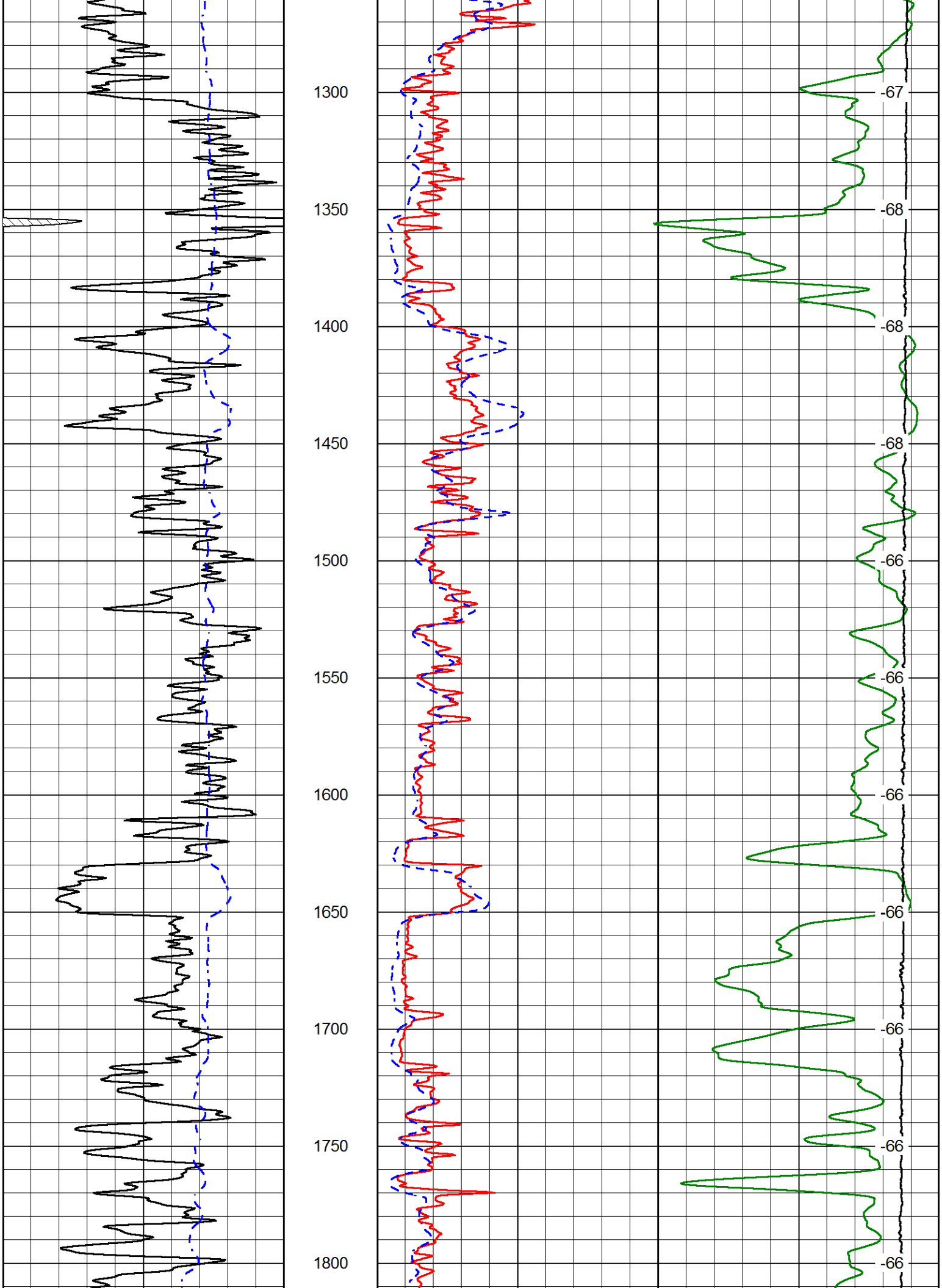
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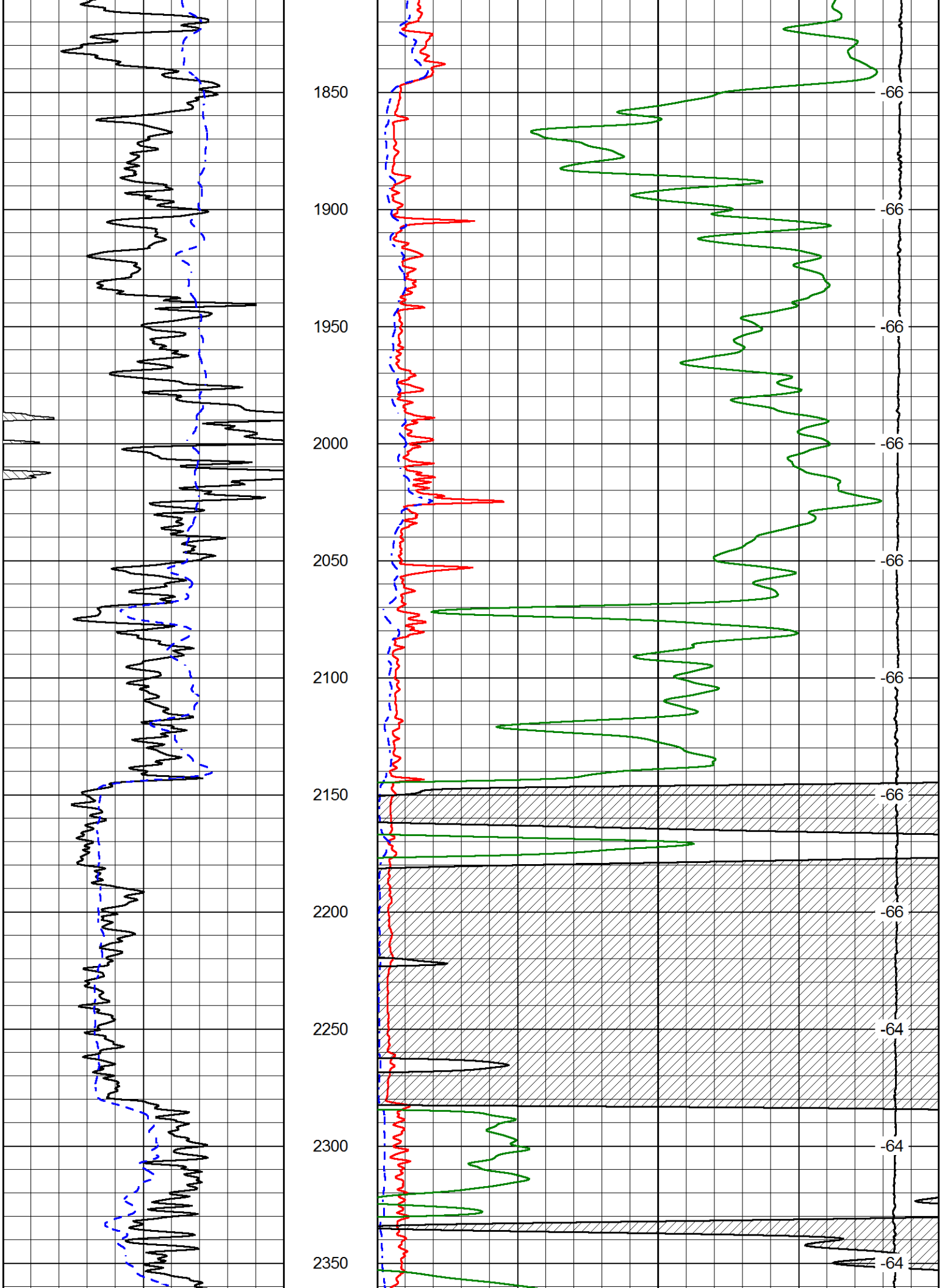
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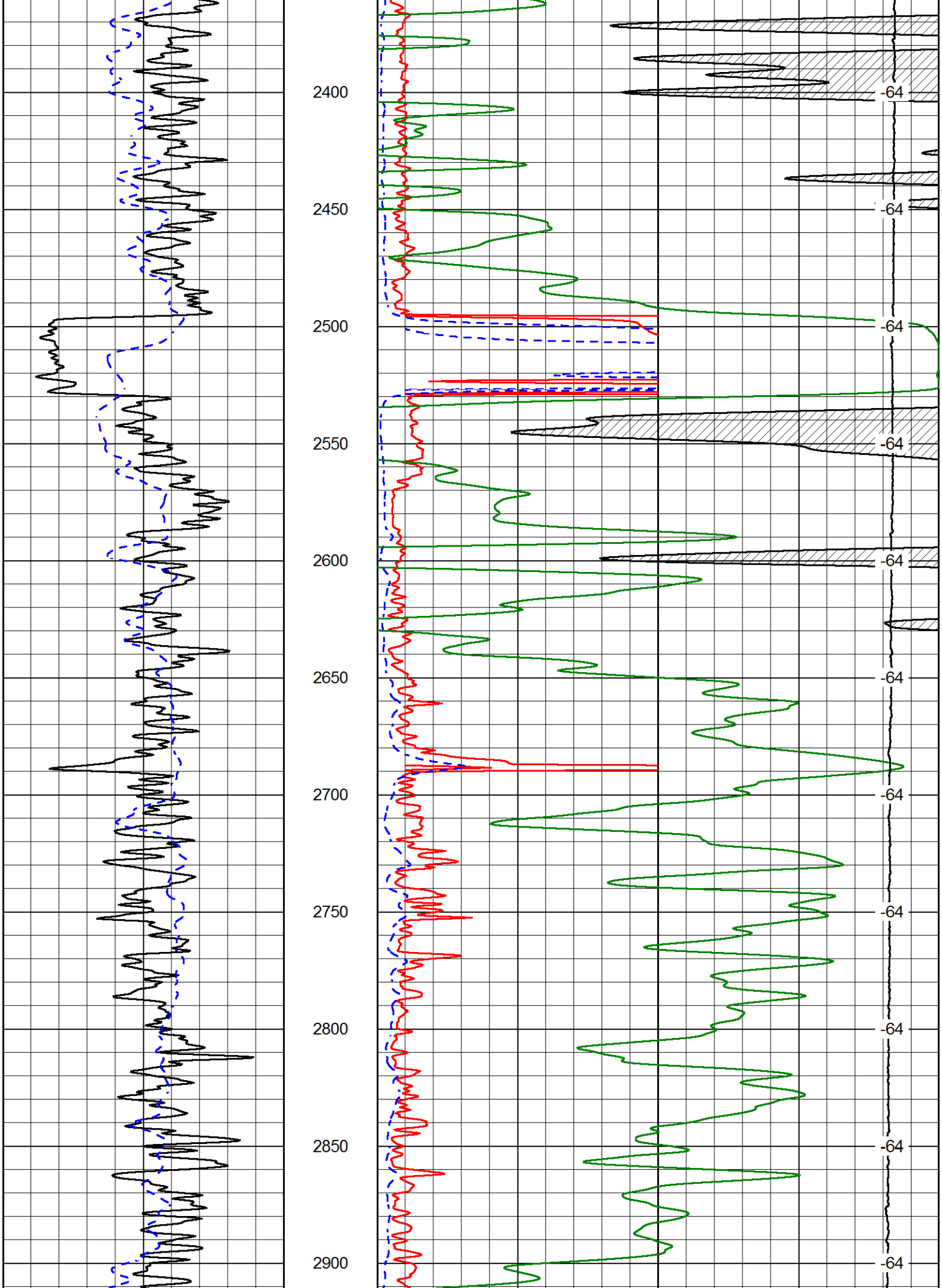
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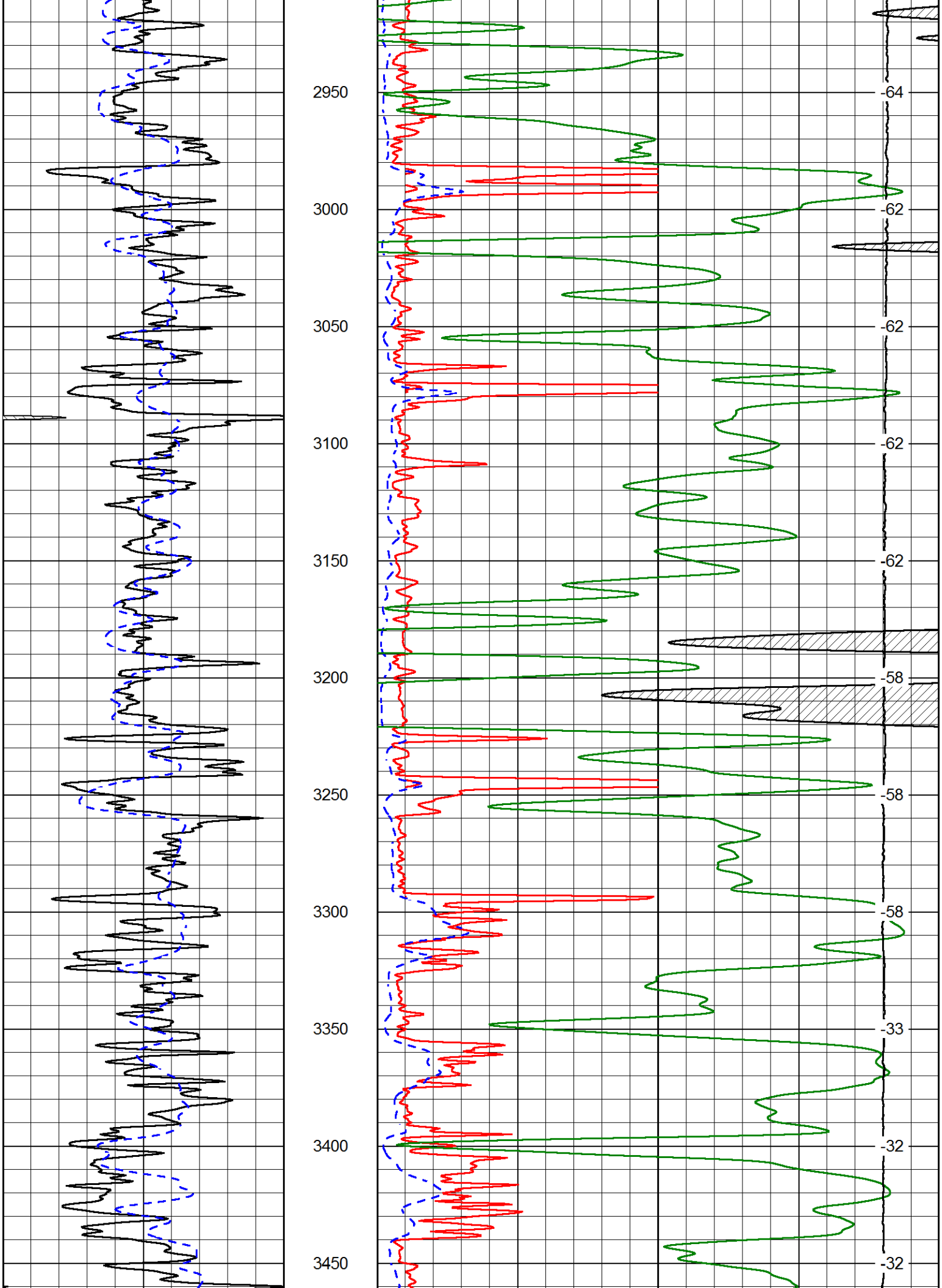
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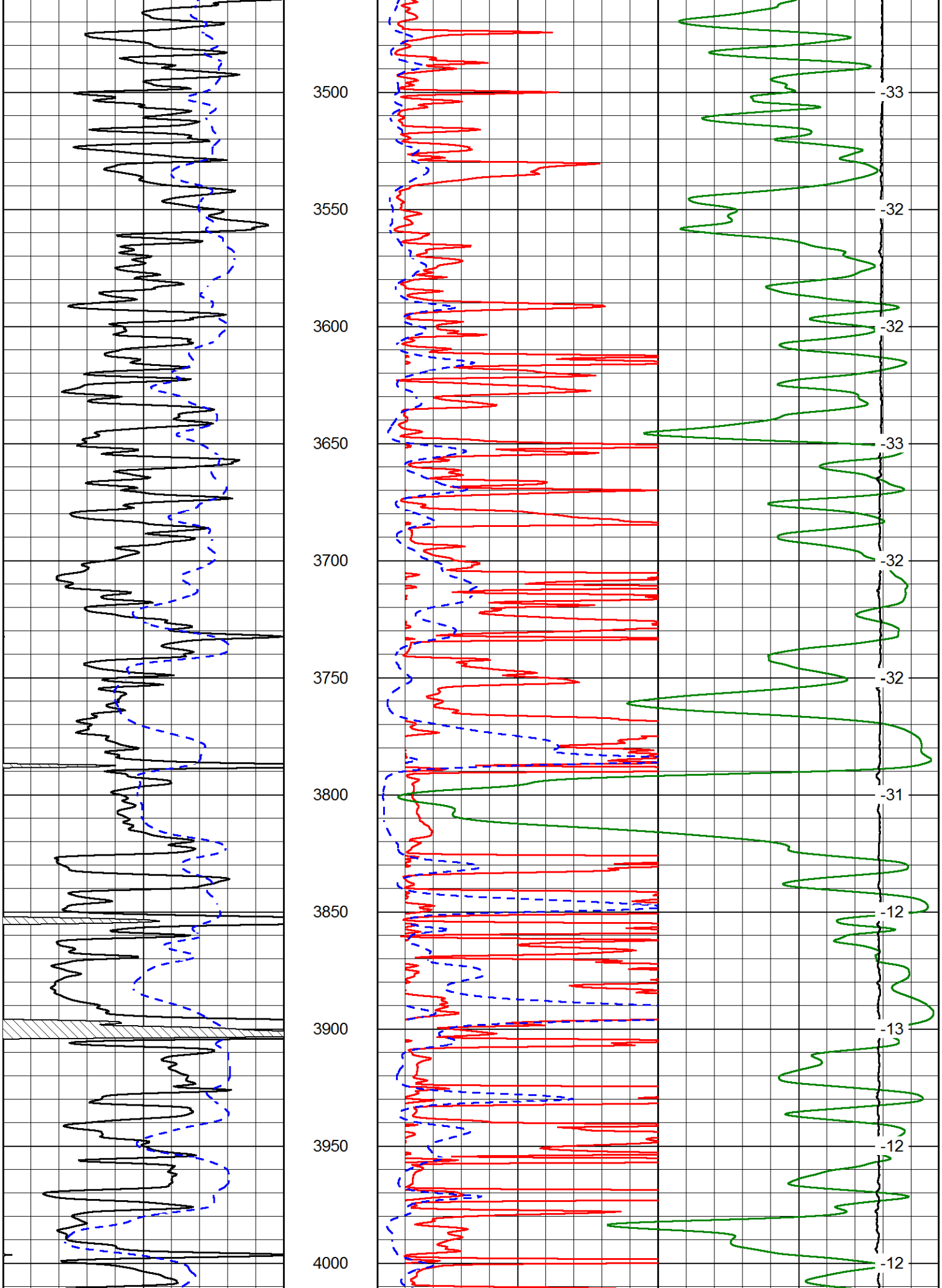
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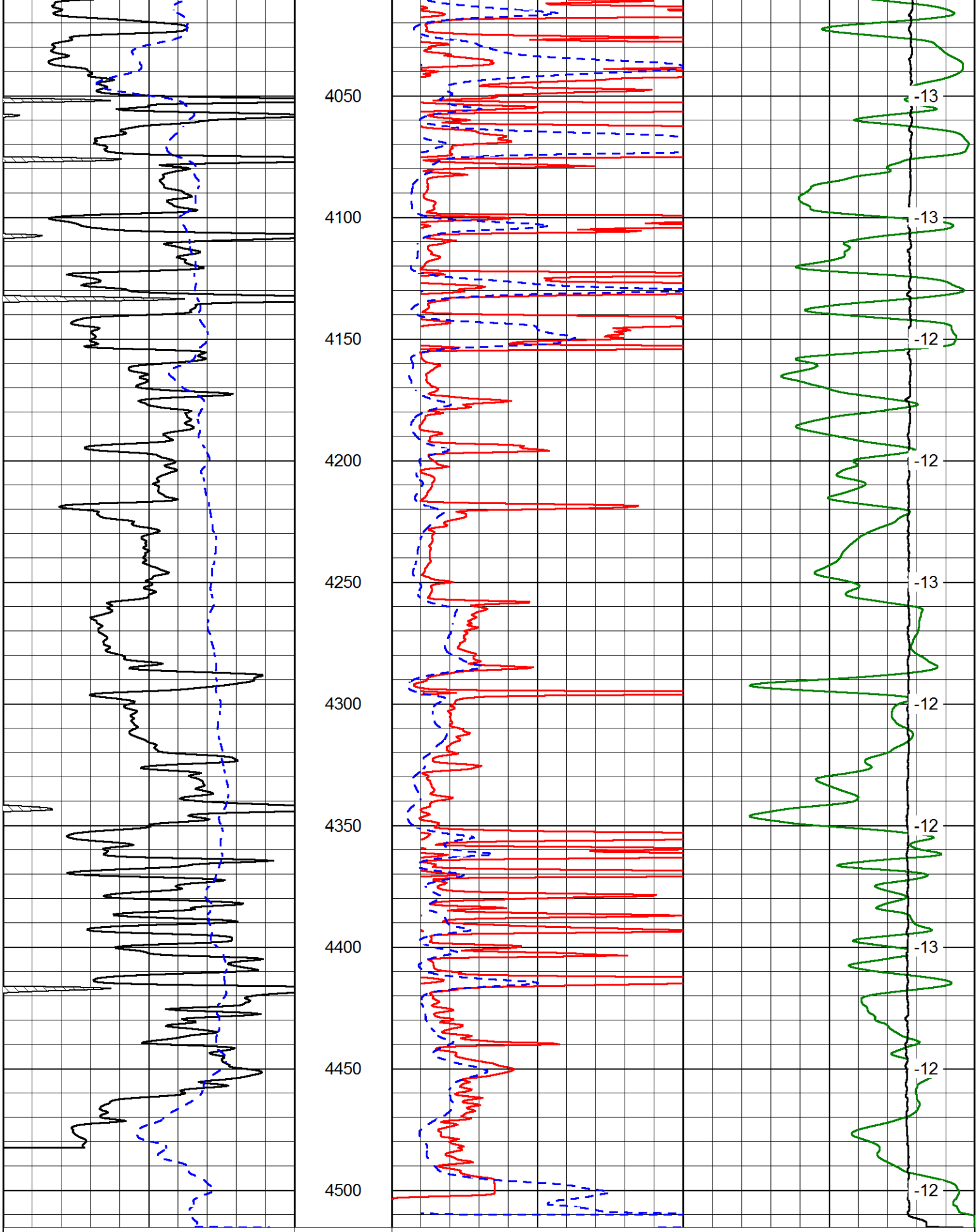


0 Gamma Ray (GAPI) 150

-200 SP (mV) 0

1000 Conductivity 0

15000 Line Tension (lb) 0

0 Shallow Resistivity (Ohm-m) 50

0 Deep Resistivity (Ohm-m) 50

LSPD (ft/min)

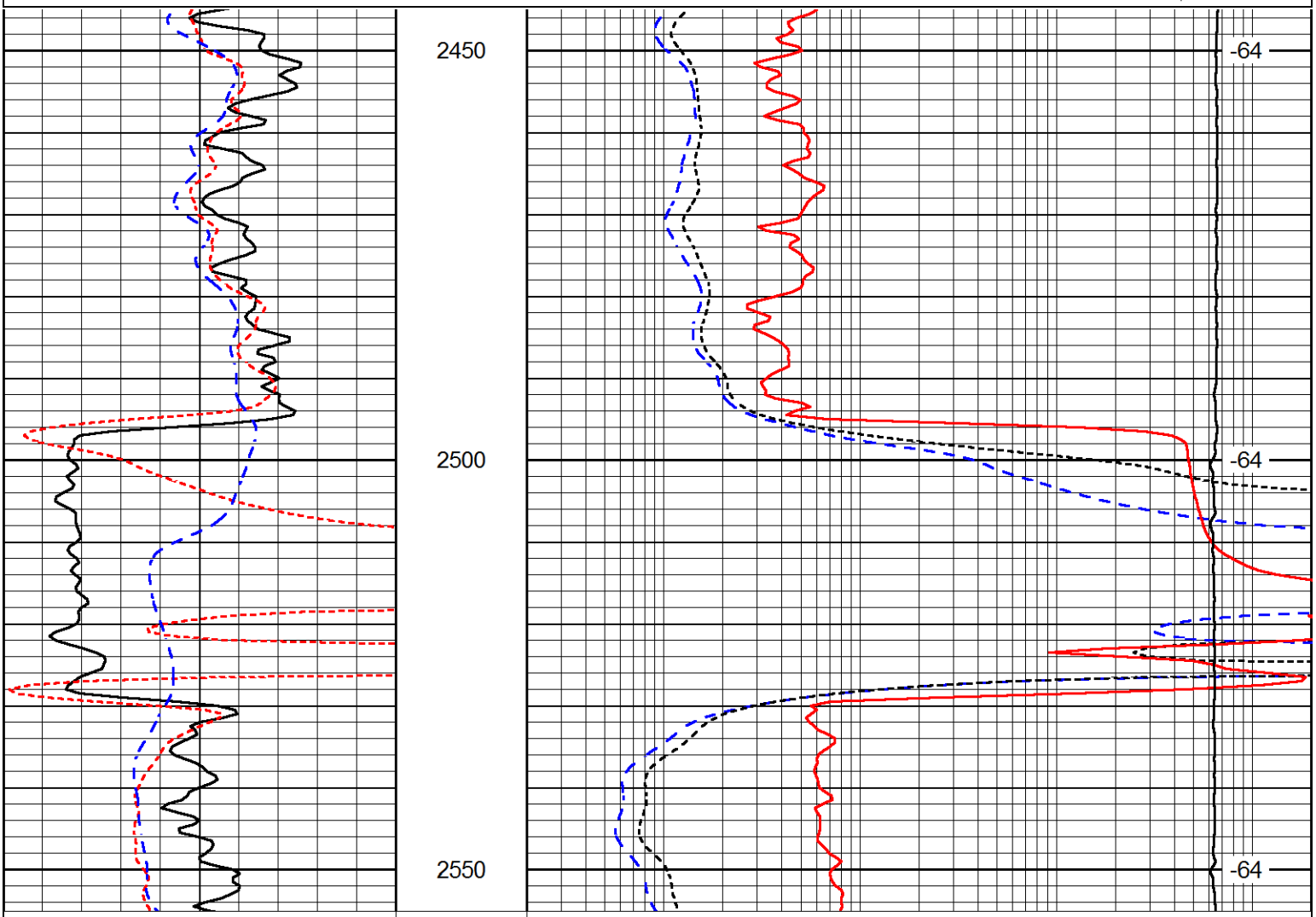
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File	suemaur_campbell_1hd.db
Dataset Pathname	DILDUCP/suestck2
Presentation Format	dil
Dataset Creation	Mon Dec 07 22:37:21 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD (ft/min)



0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

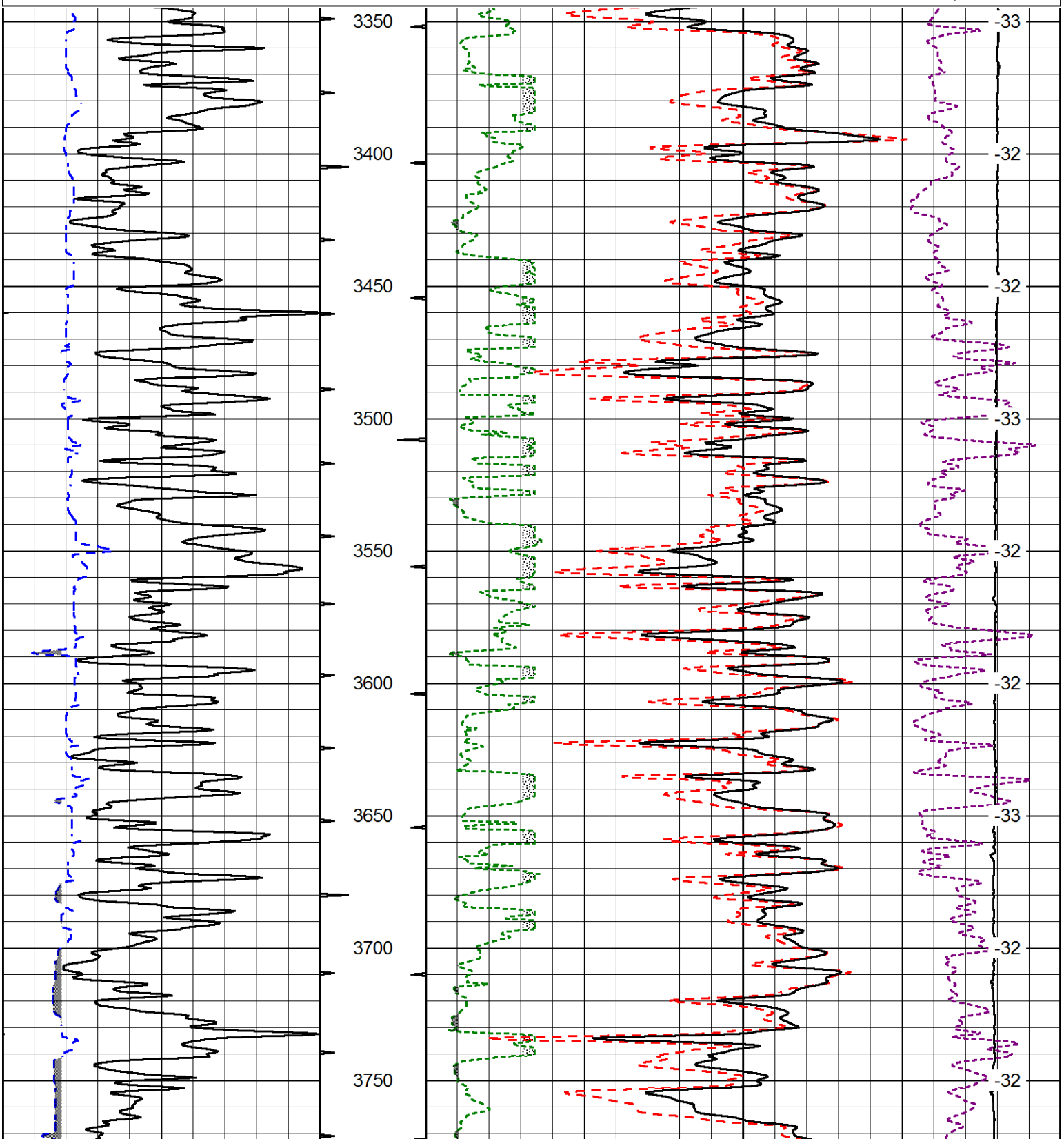
LSPD (ft/min)

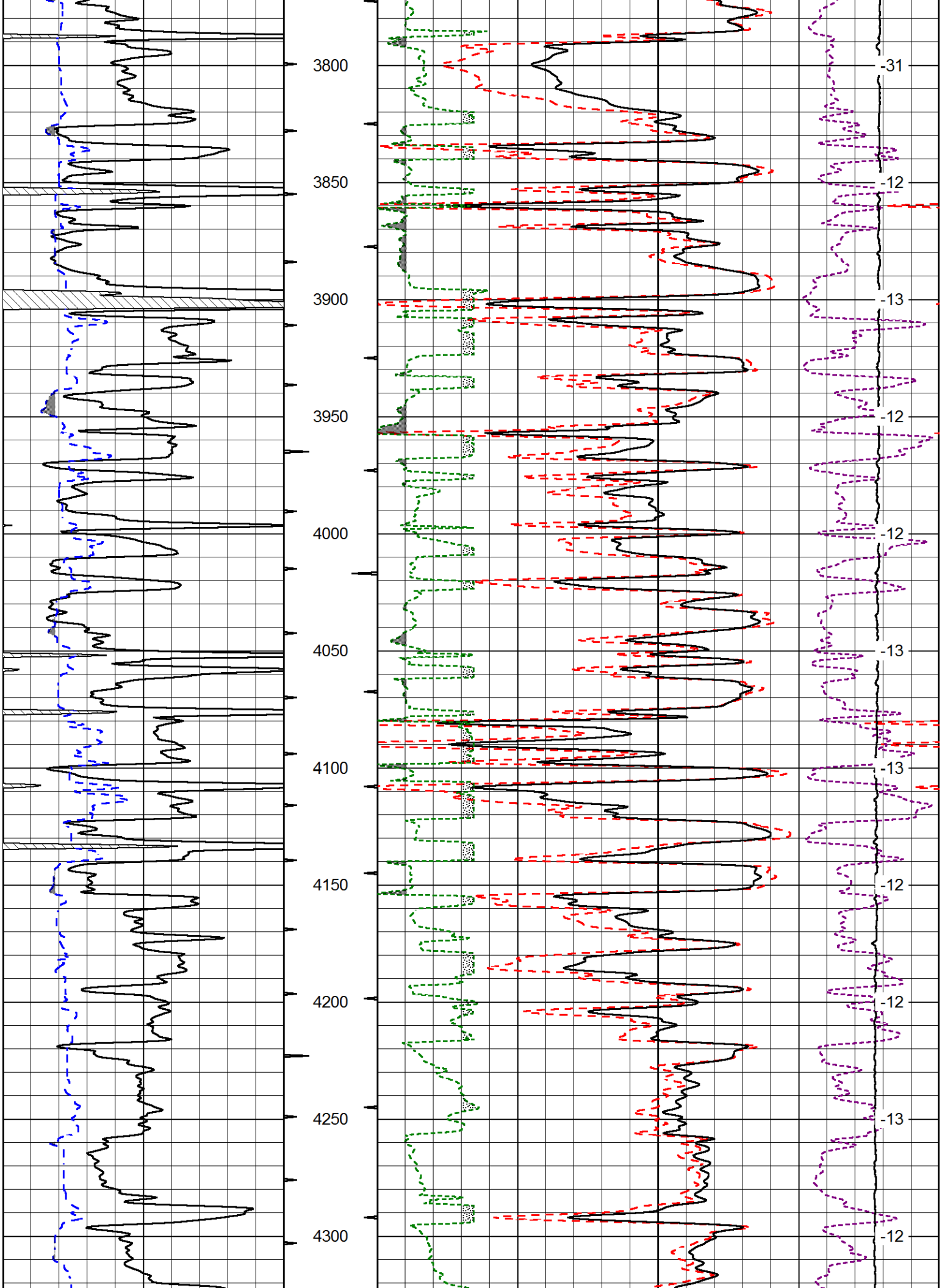
Database File	suemaur_campbell_1hd.db
Dataset Pathname	DILDUCP/suestck2
Presentation Format	cdl
Dataset Creation	Mon Dec 07 22:37:21 2015
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)			-10
2	Bulk Density (g/cc)			3
15000	Line Tension (lb)			0
2.625	DGA (g/cc)	3.425	-0.25 Correction (g/cc)	0.25

LSPD (ft/min)

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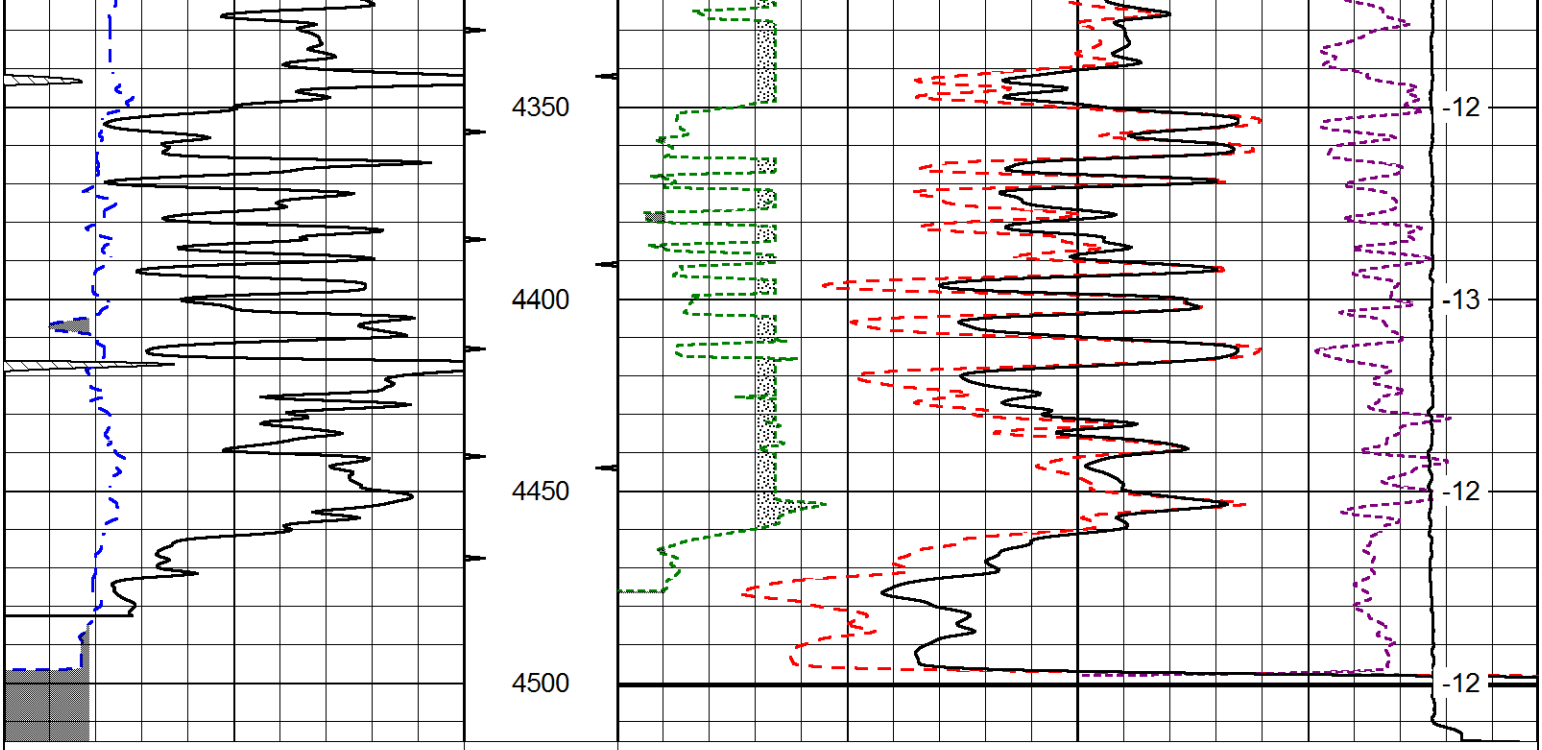


0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

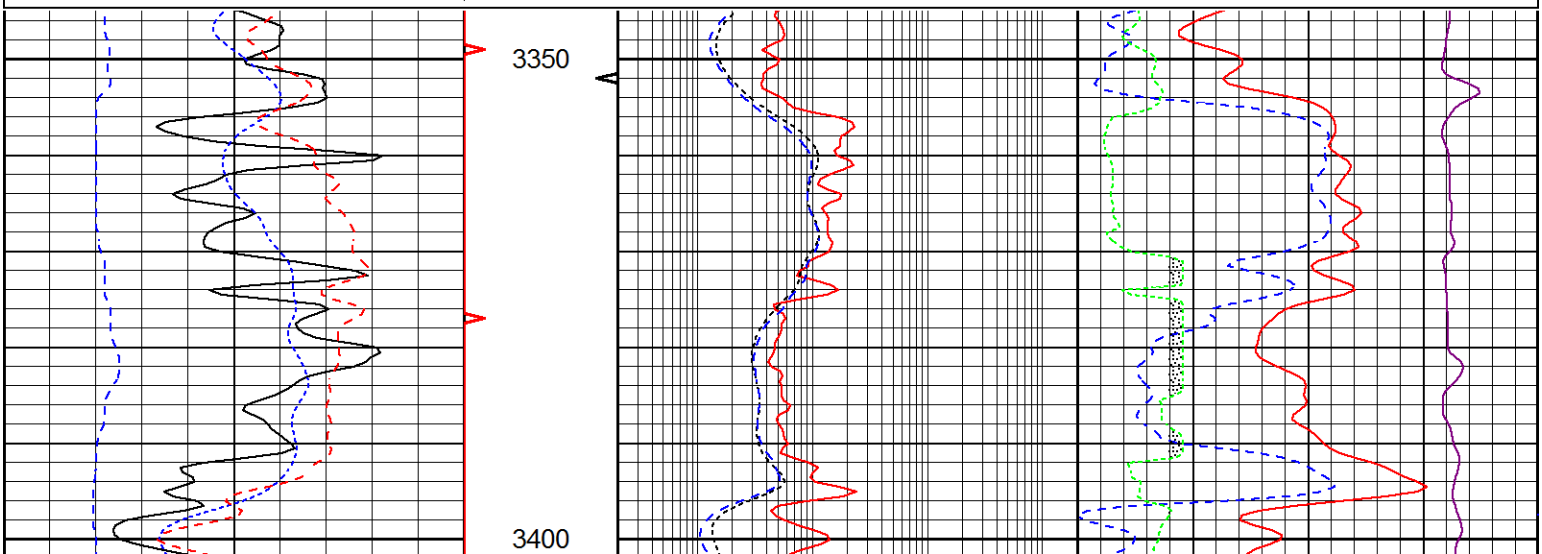
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
2.625	DGA (g/cc) 3.425	-0.25 Correction (g/cc) 0.25
		LSPD (ft/min)

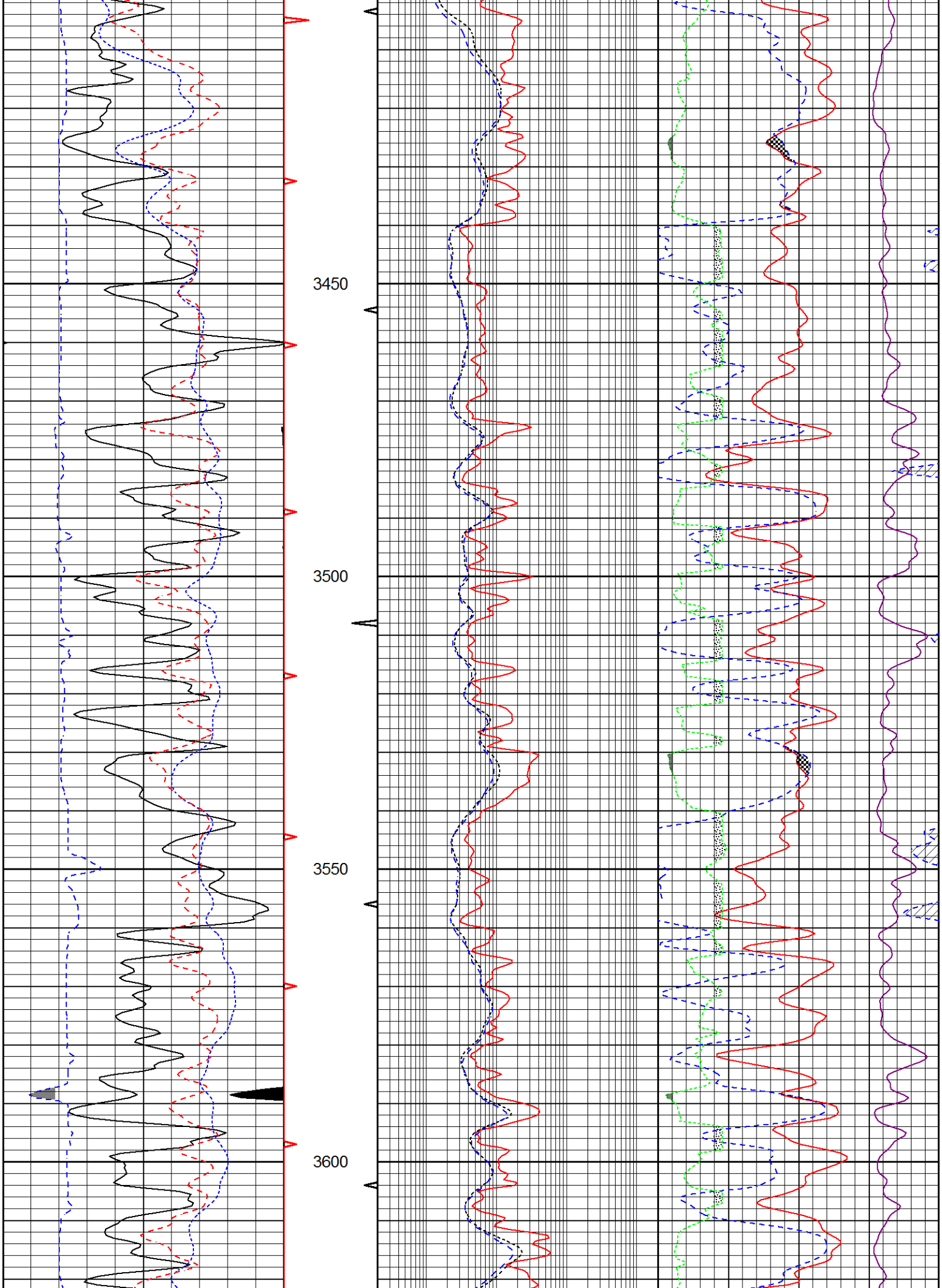
Database File	suemaur_campbell_1hd.db
Dataset Pathname	DILDUCP/suestck2
Presentation Format	suemaur
Dataset Creation	Mon Dec 07 22:37:21 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
150	GR (GAPI)	300
6	Caliper (in)	16
2.875	DCAL (in)	7.875
-200	SP (mV)	0
-160	Rxo/Rt	40

0.2	Shallow Guard (Ohm-m)	2000
0.2	Medium Induction (Ohm-m)	2000
0.2	Deep Induction (Ohm-m)	2000

30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
2.65	dga (g/cc)	3.75
	RHOC	
-0.25	(g/cc)	0.25

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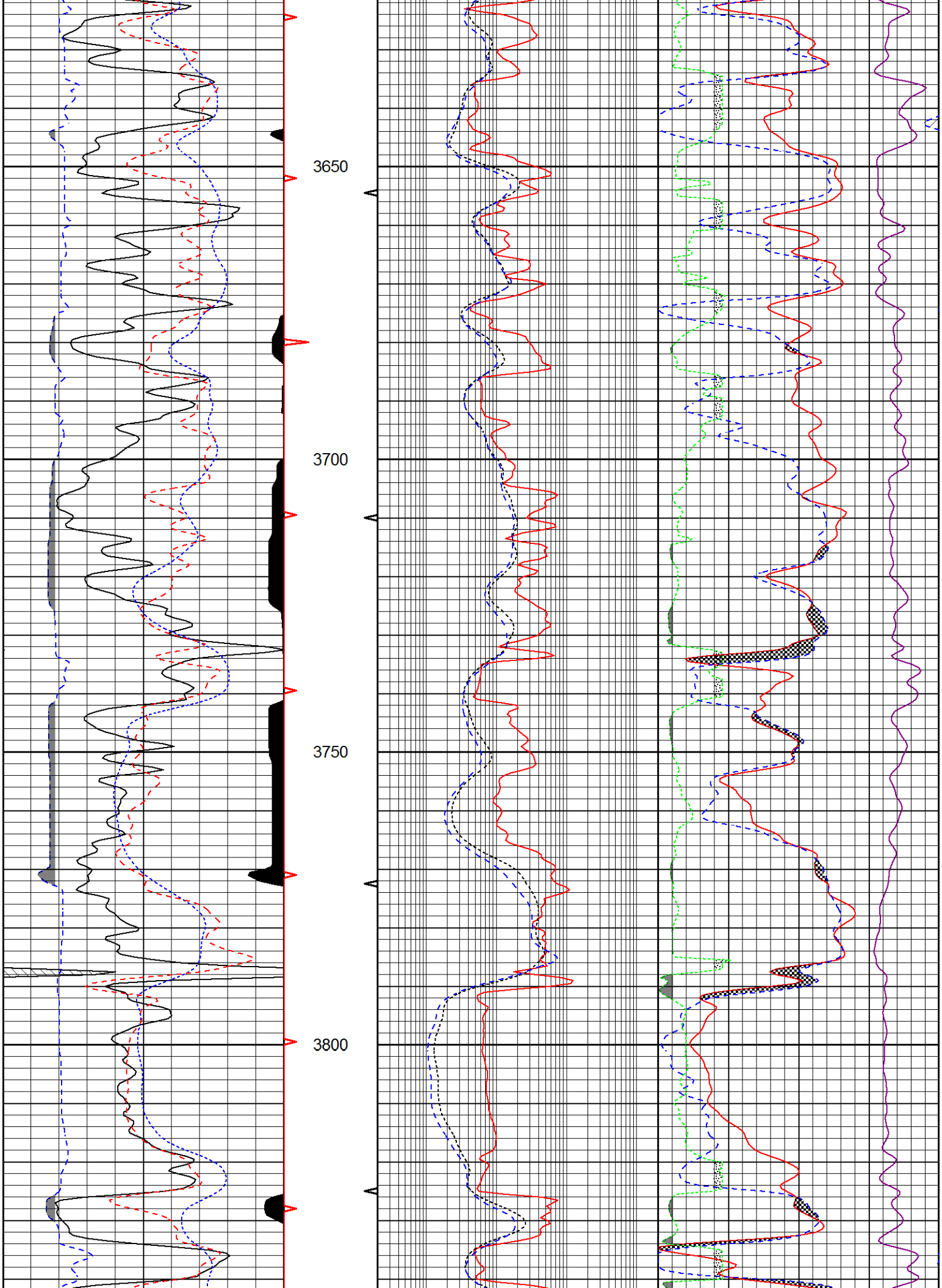
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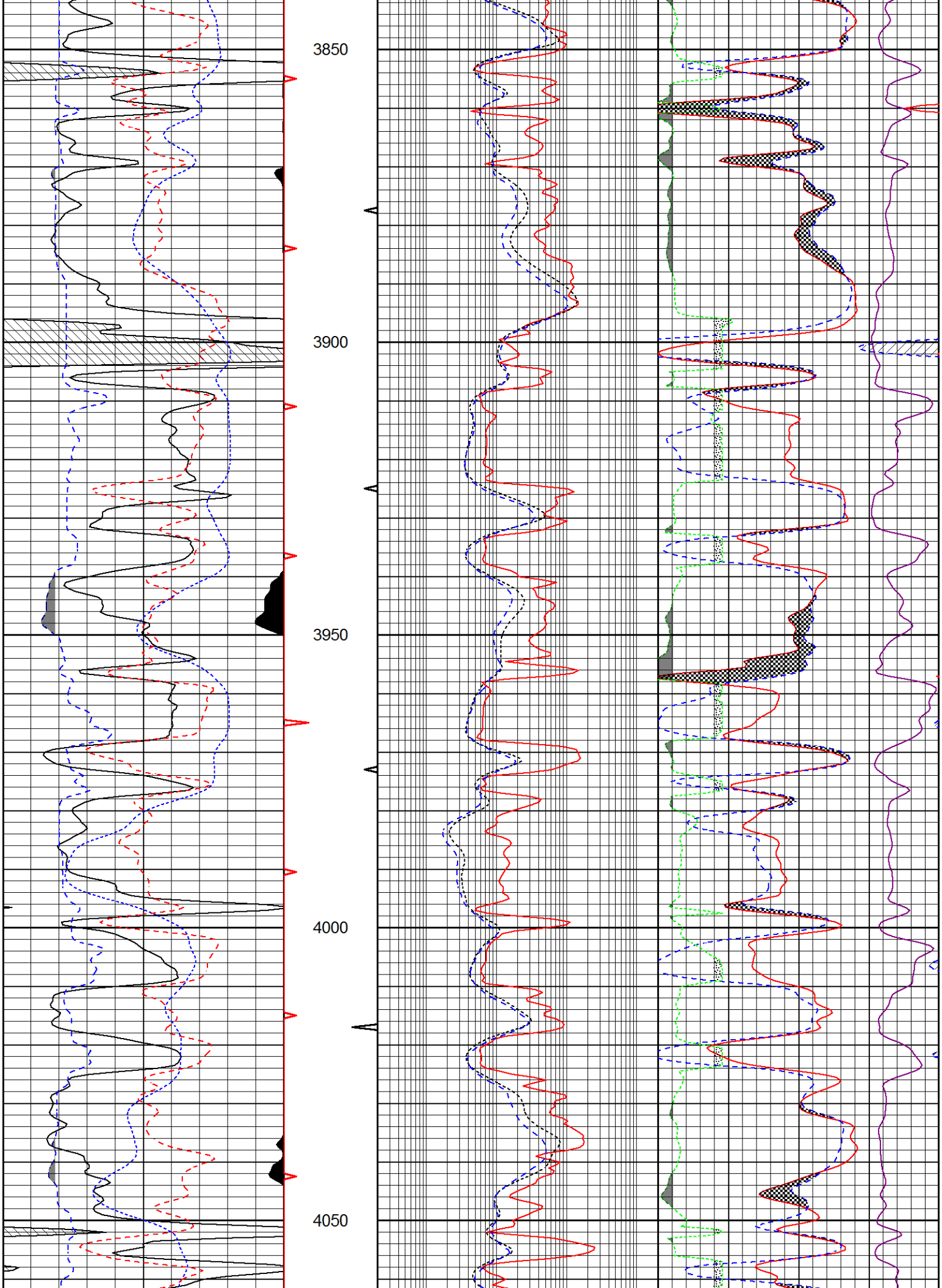
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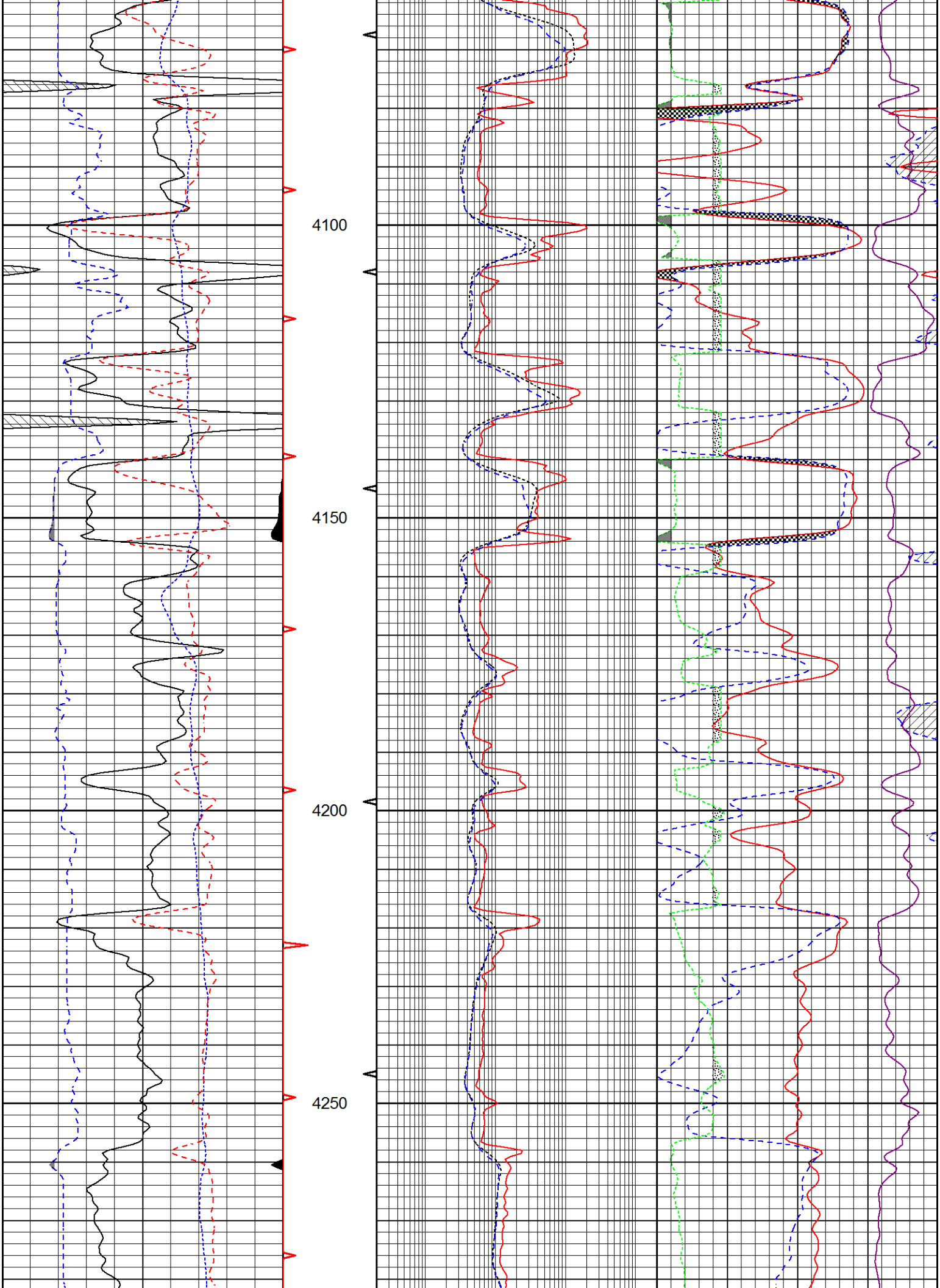
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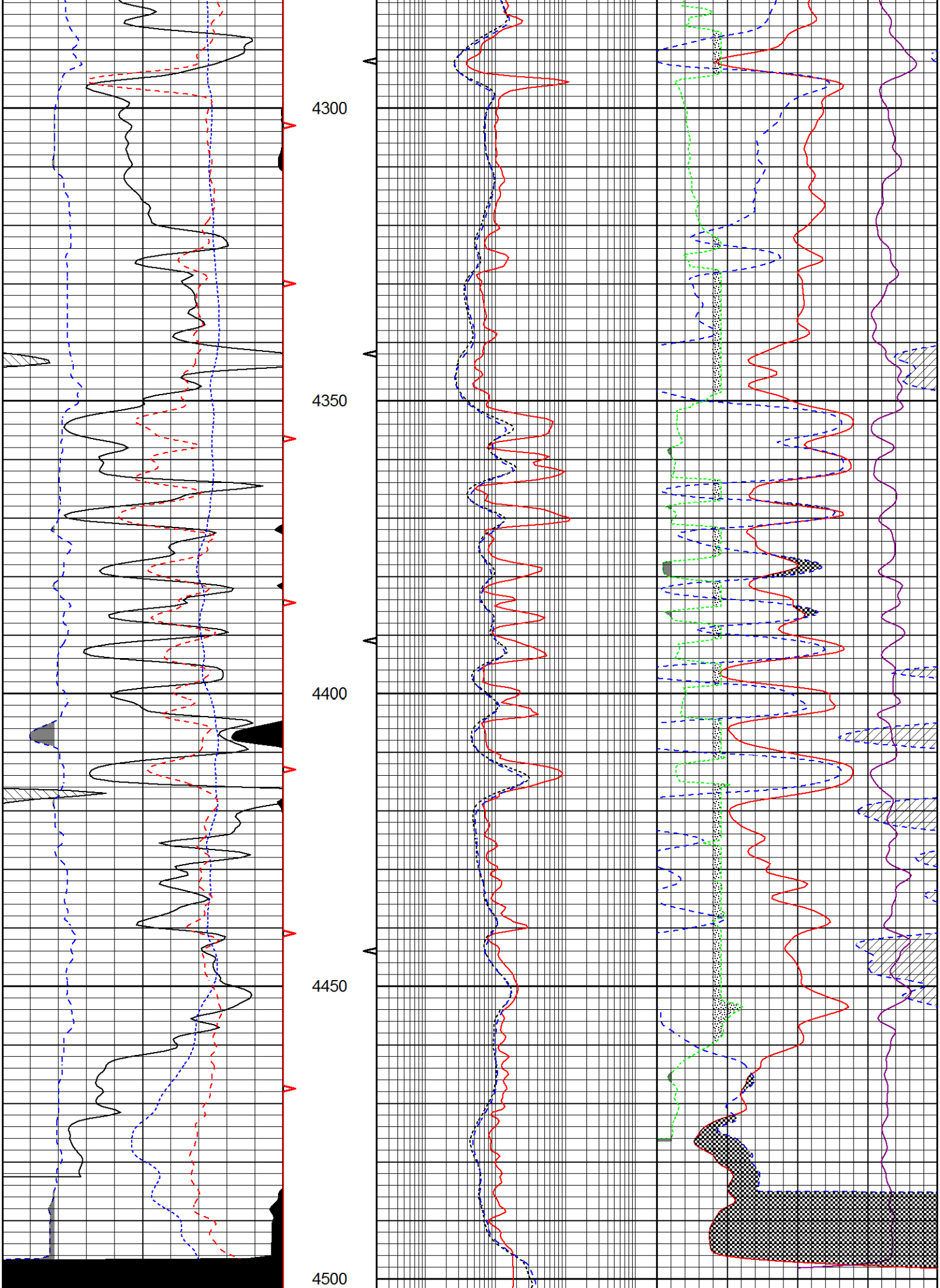
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0	Gamma Ray (GAPI)	150
150	GR (GAPI)	300
6	Caliper (in)	16
2.875	DCAL (in)	7.875
-200	SP (mV)	0
-160	Rxo/Rt	40

0.2	Shallow Guard (Ohm-m)	2000
0.2	Medium Induction (Ohm-m)	2000
0.2	Deep Induction (Ohm-m)	2000

30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
2.65	dga (g/cc)	3.75
	RHOC	
-0.25	(g/cc)	0.25

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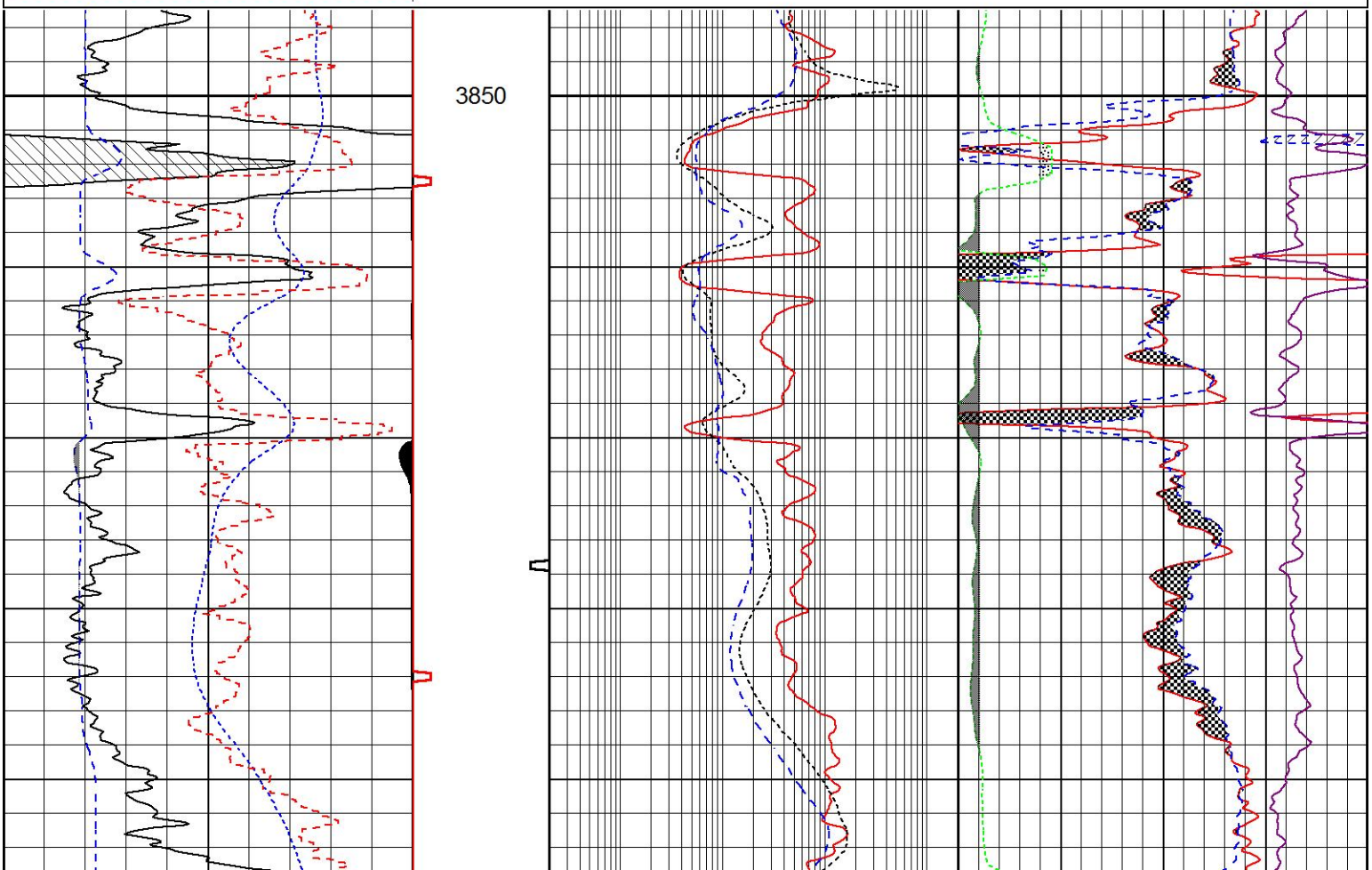
High Resolution

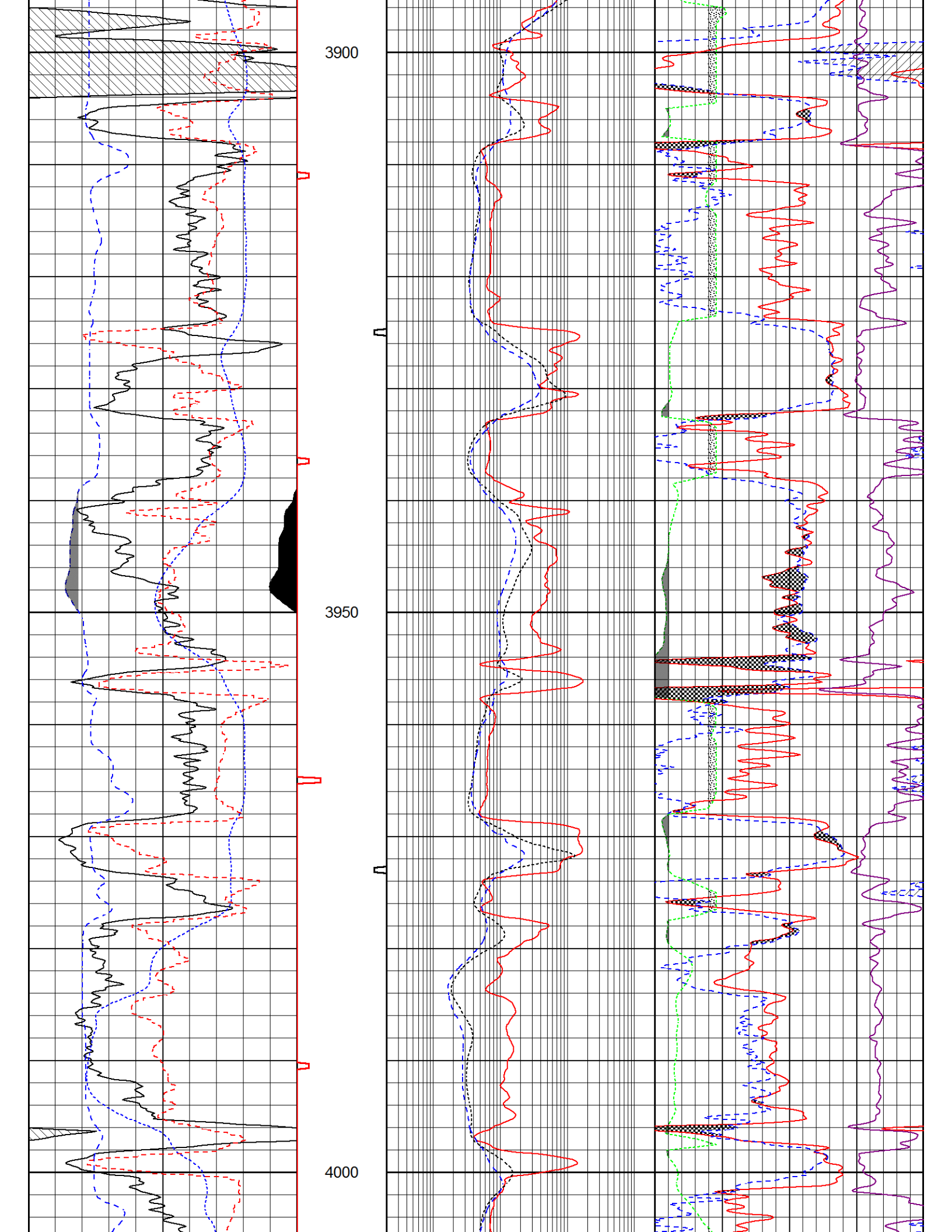
Database File	suemaur_campbell_1hd.db
Dataset Pathname	DILDUCP/suhires
Presentation Format	suemaur
Dataset Creation	Mon Dec 07 22:05:33 2015
Charted by	Depth in Feet scaled 1:120

0	Gamma Ray (GAPI)	150
150	GR (GAPI)	300
6	Caliper (in)	16
2.875	DCAL (in)	7.875
-200	SP (mV)	0
-160	Rxo/Rt	40

0.2	Shallow Guard (Ohm-m)	2000
0.2	Medium Induction (Ohm-m)	2000
0.2	Deep Induction (Ohm-m)	2000

30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
2.65	dga (g/cc)	3.75
	RHOC	
-0.25	(g/cc)	0.25

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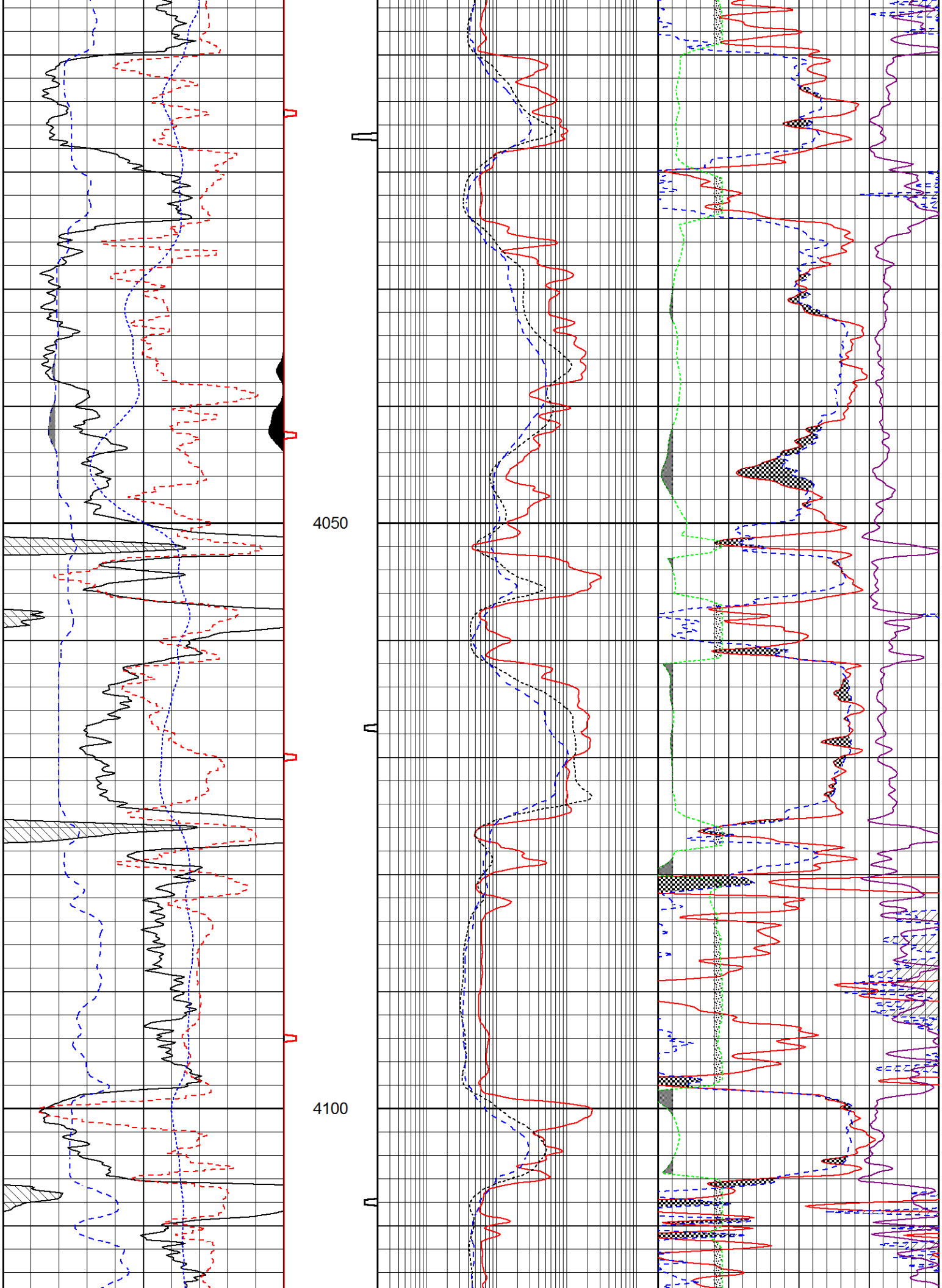
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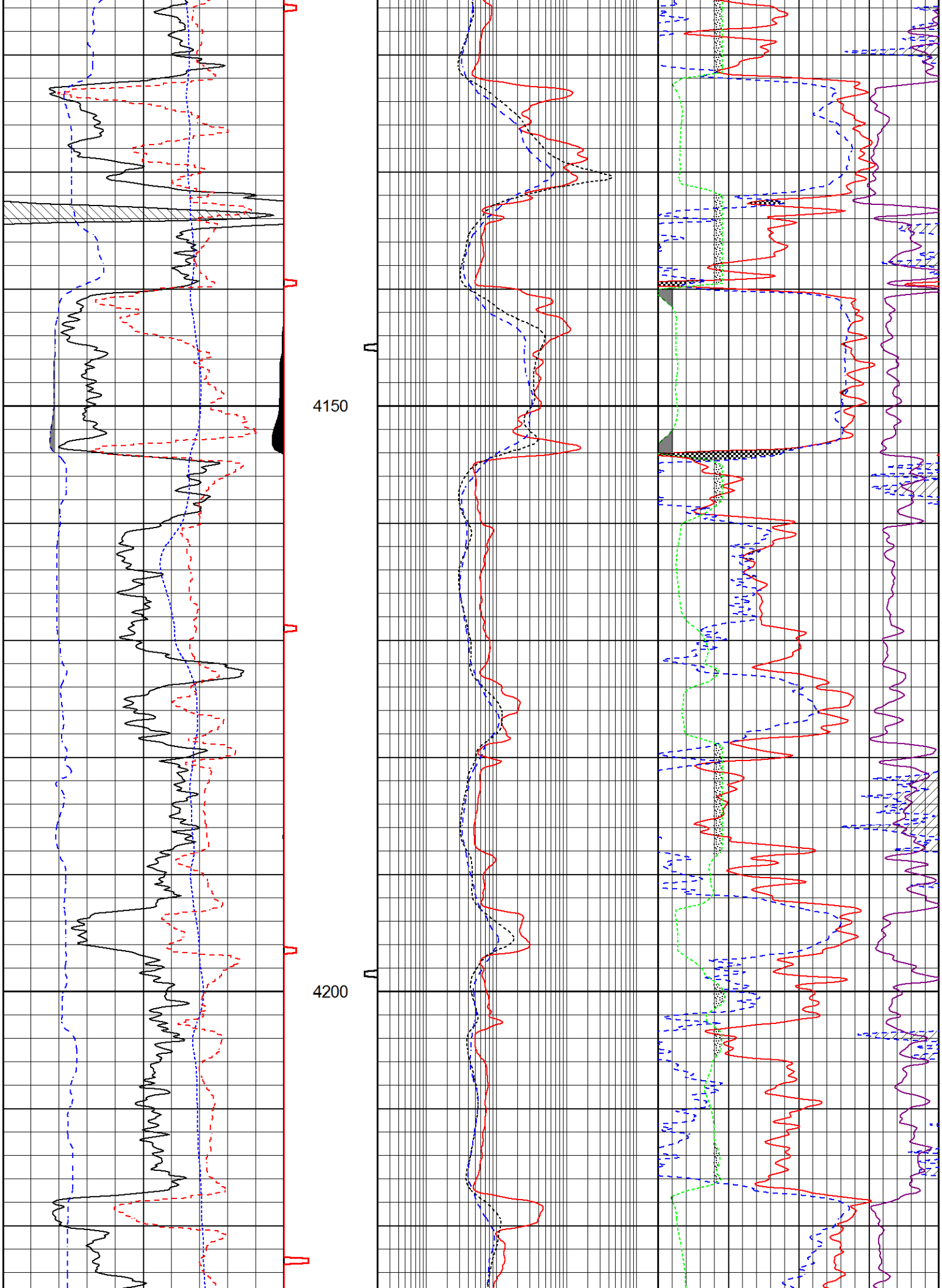
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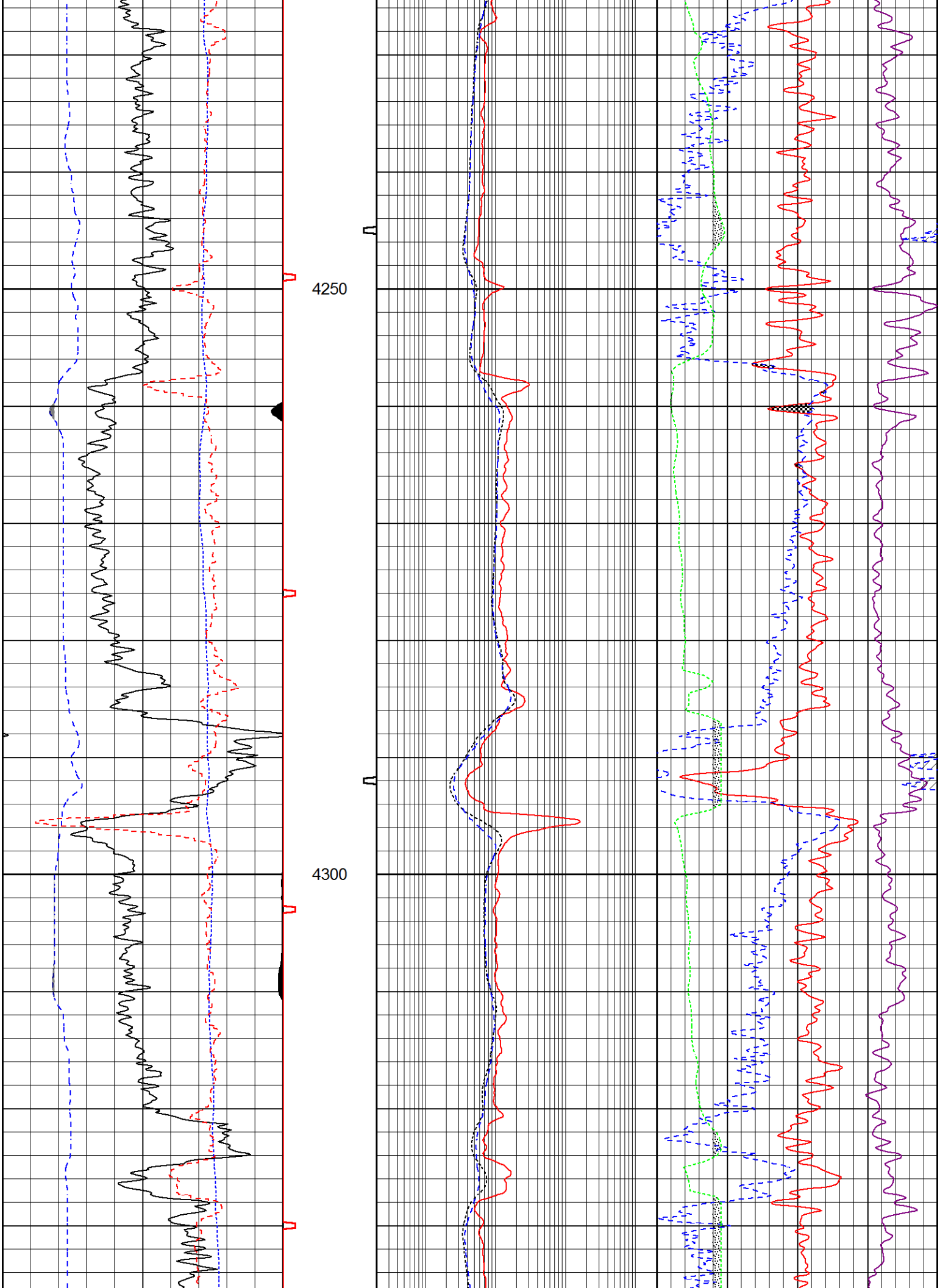
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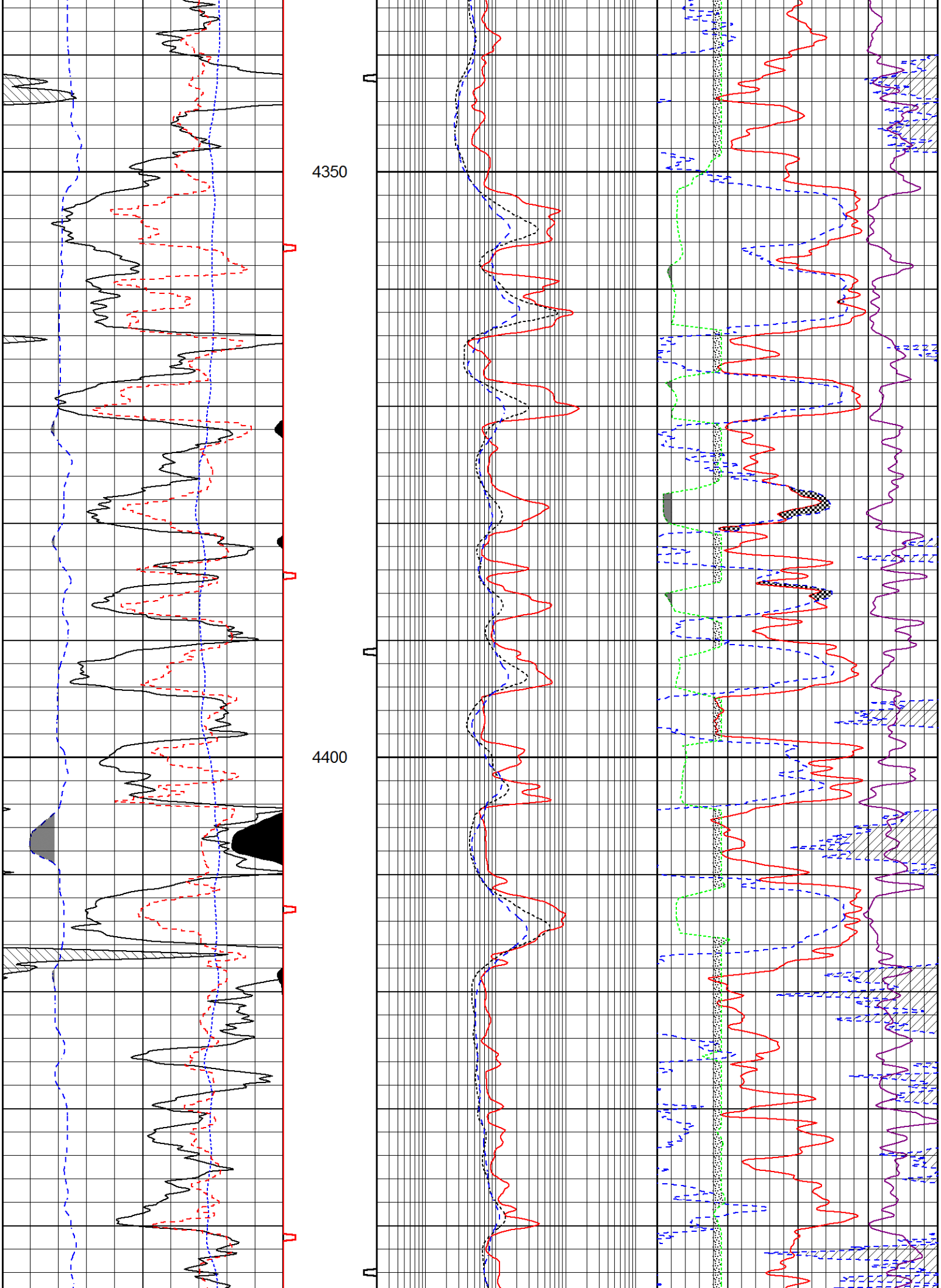
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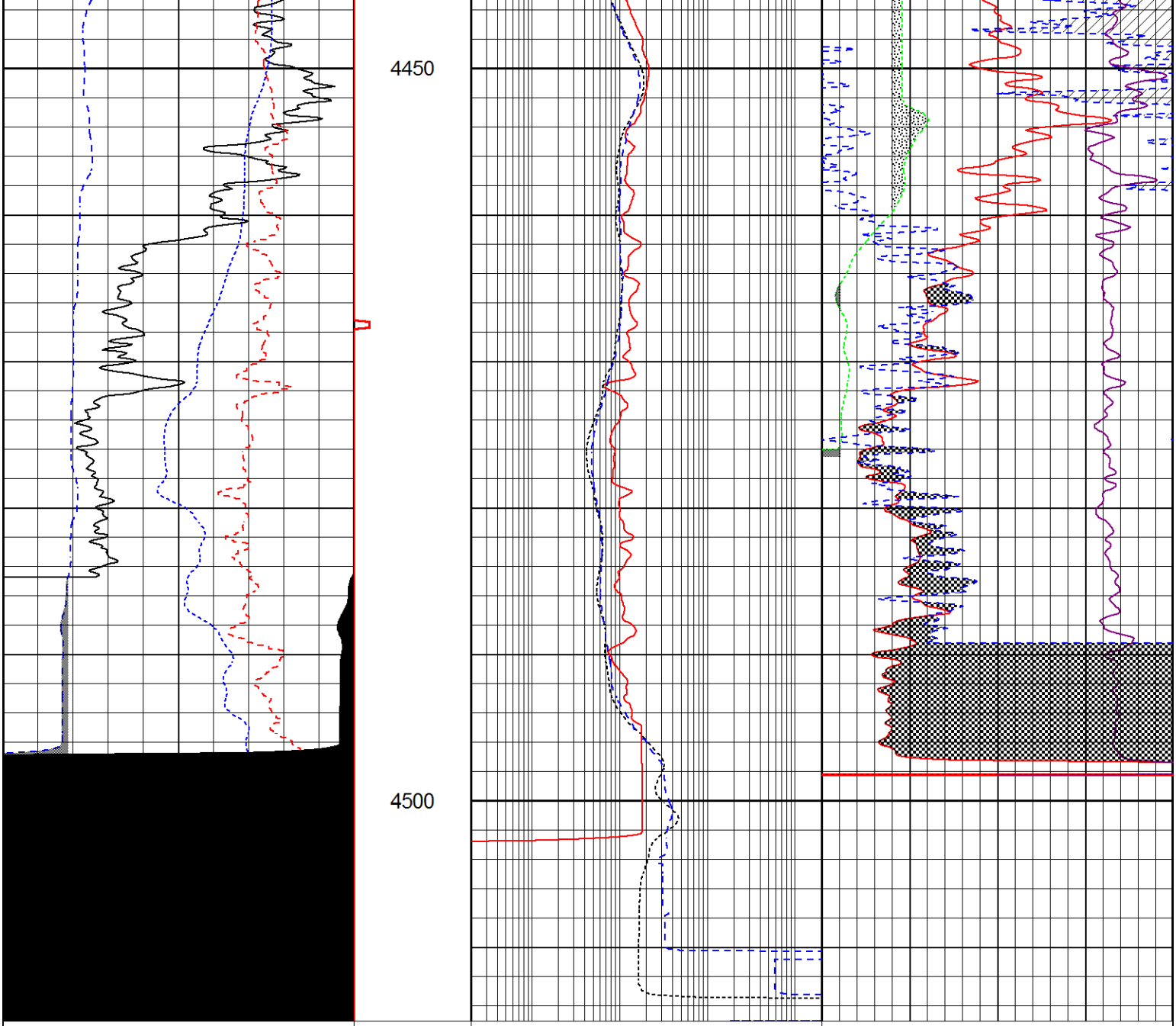

0	Gamma Ray (GAPI)	150
150	GR (GAPI)	300
6	Caliper (in)	16
2.875	DCAL (in)	7.875
-200	SP (mV)	0
-160	Rxo/Rt	40

0.2	Shallow Guard (Ohm-m)	2000
0.2	Medium Induction (Ohm-m)	2000
0.2	Deep Induction (Ohm-m)	2000

30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
2.65	dga (g/cc)	3.75

	RHOC	
-0.25	(g/cc)	0.25