PIONEER

Pioneer Energy Services

Computer Processed Interpretation

API No. 15-007-24,029-00-00

Company Toto Energy, LLC

Well Packard #24-1

Field Nurse

County Barber State Kansas

Location 1536' FNL & 625' FWL

Sec: 24 Twp: 31S Rge: 13W

Permanent Datum Ground Level Elevation 1625

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
DIL/CNL/CDL
BHCS/MEL

Elevation
K.B. 1636
D.F.
G.L. 1625

Date Recorded	6/26/2013
Depth Logger	4753
	Curve Definitions
SW	Water Saturation
SXO	Water Saturation In The Flushed Zone
VCL	Volume Of Clay
PHIE	Density - Neutron Crossplot Shale Corrected
BVW	Bulk Volume Water
BVWSXO	Bulk Volume Water In Flushed Zone
DCAL	Caliper
SPC	SP Corrected For Baseline
DGA	Apparent Grain Density
Payflag	If: PHIE> 2 %, VCL< 40 %, SPC> -10 , SW< 50 % & DCAL< 11
Recorded By	C. Desaire
Witnessed By	Terry Madden
Analysis By	Dale Legleiter

Sean Deenihan

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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.

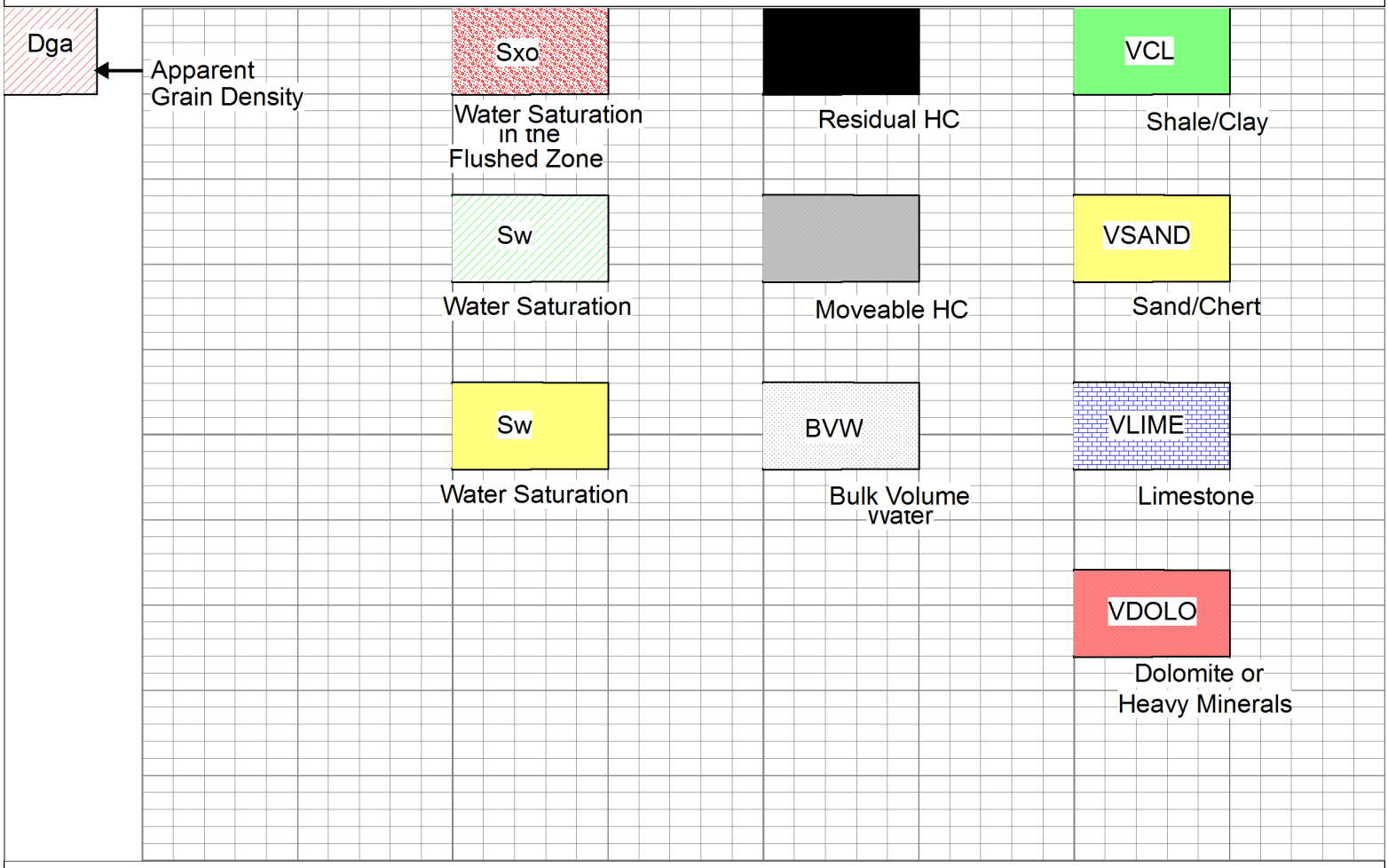
Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

Medicine Lodge KS, 7 1/2 W on River Rd, N Into

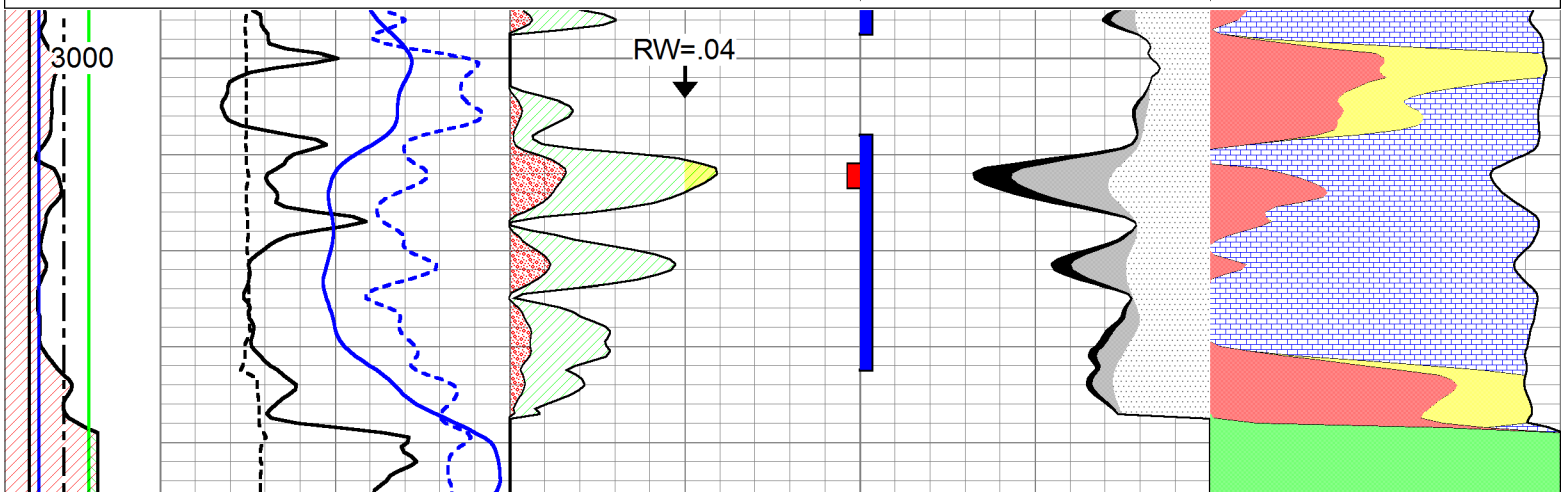
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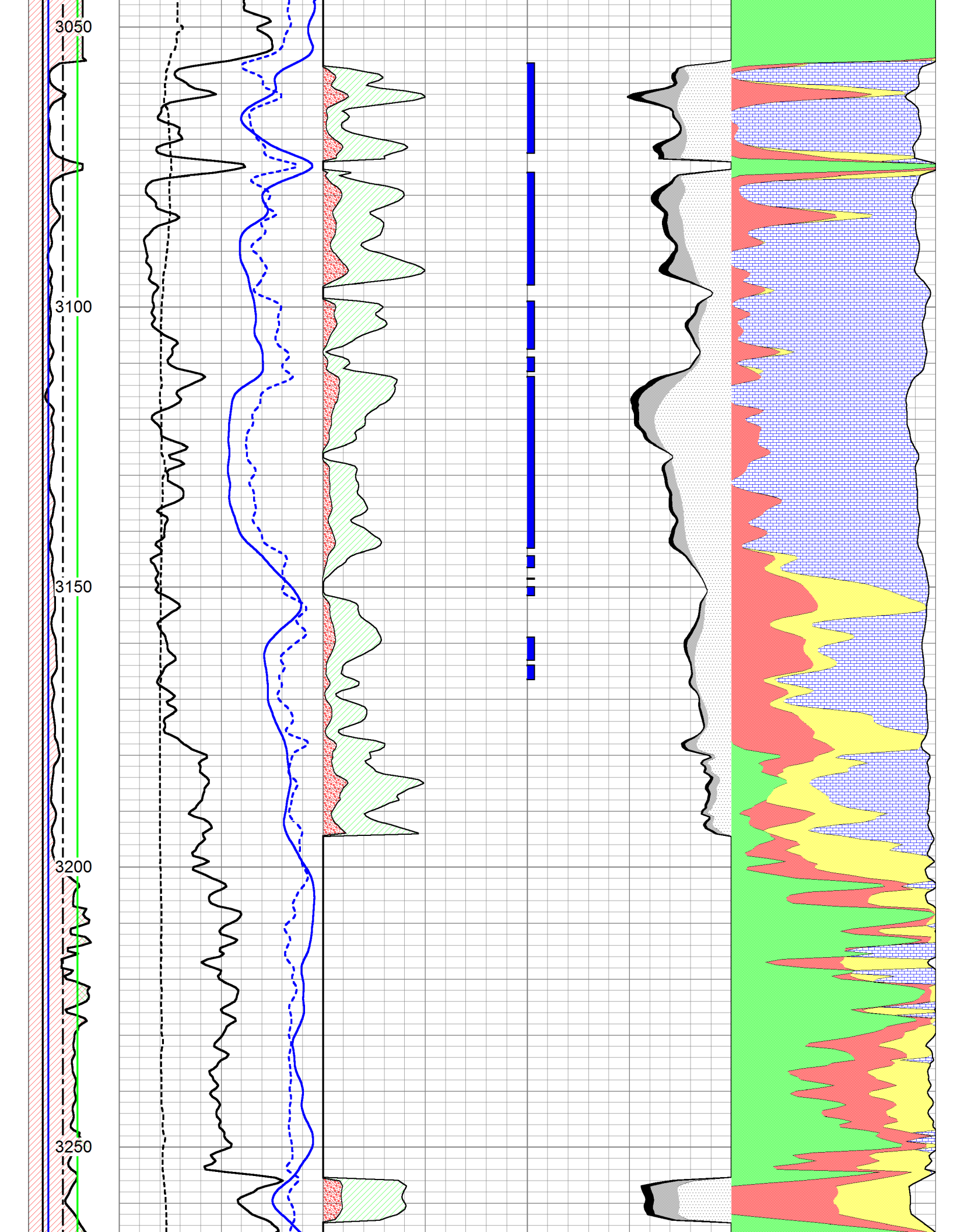
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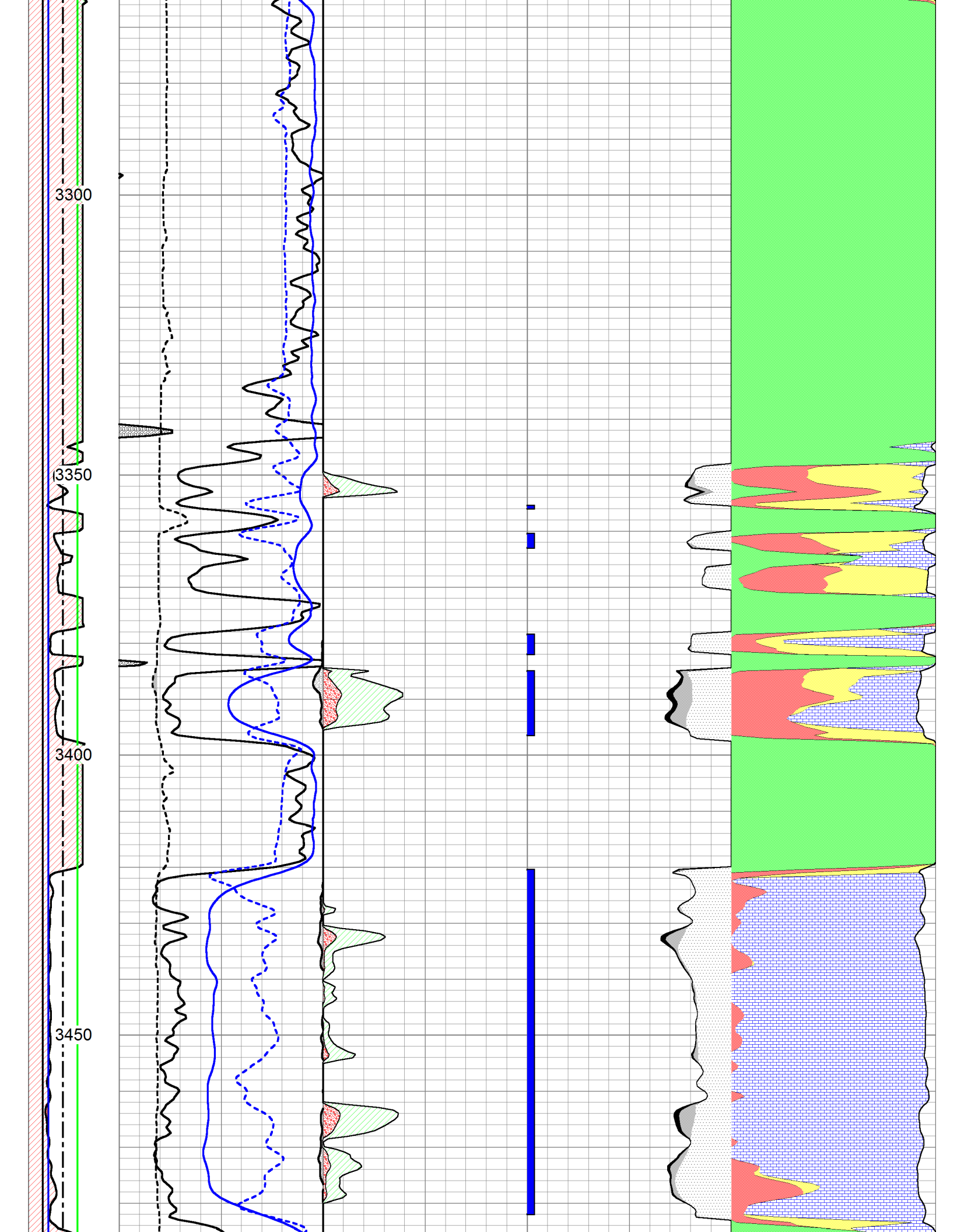


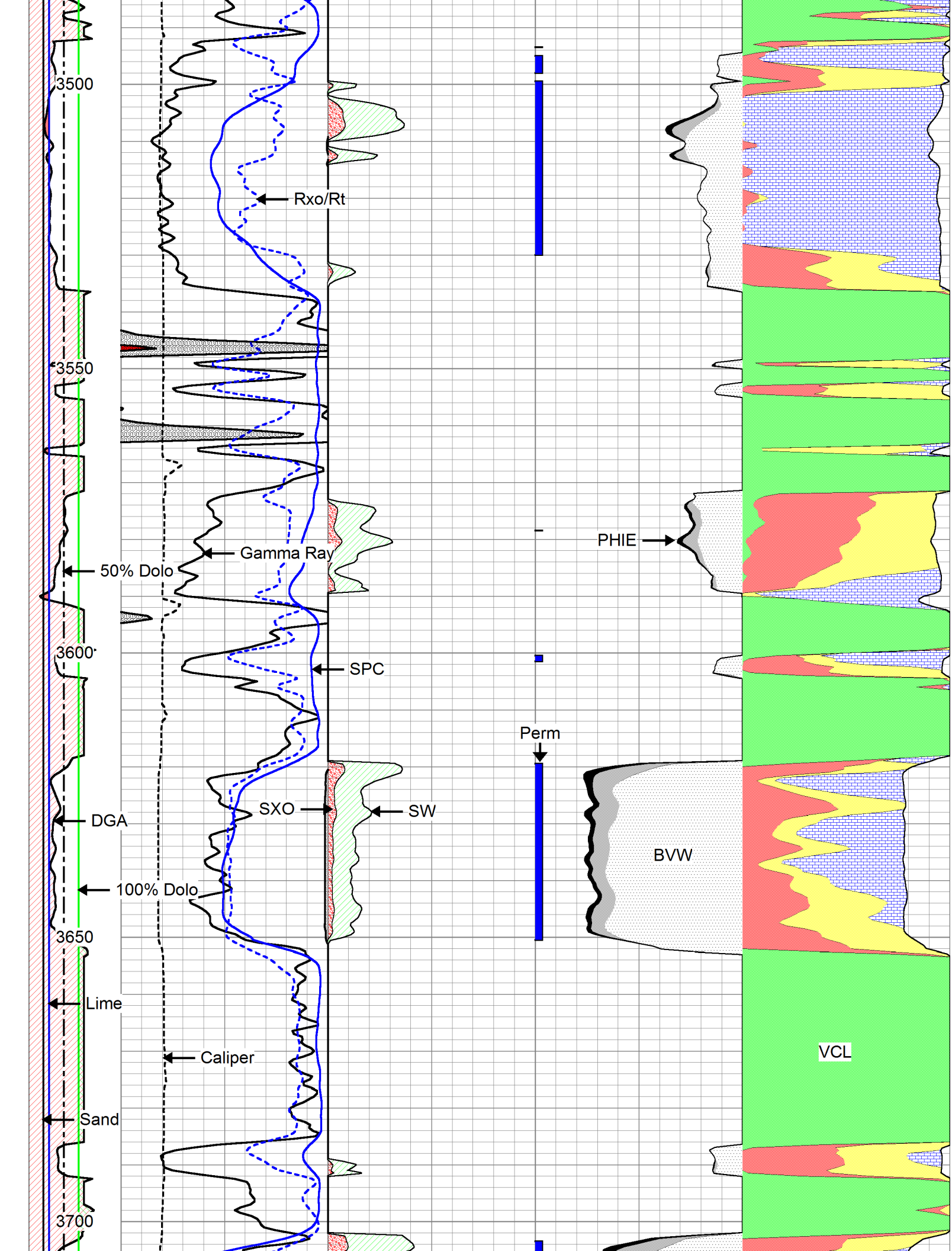
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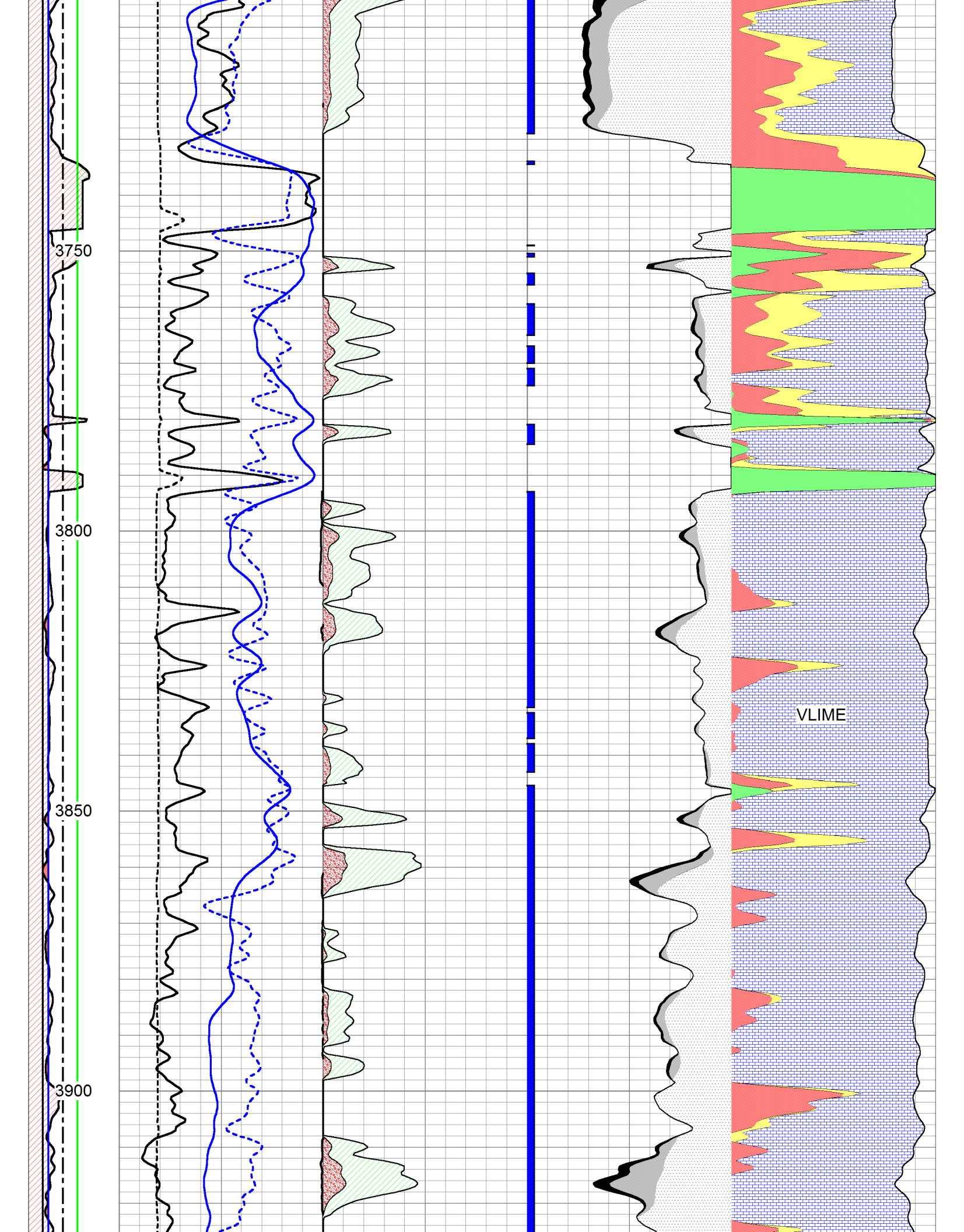
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		-150	SPC (mV)	0	1	SXO	0	0	PERM	30	0	VLIME	1
								0.3	BVWSXO	0	0	VDOLO	1

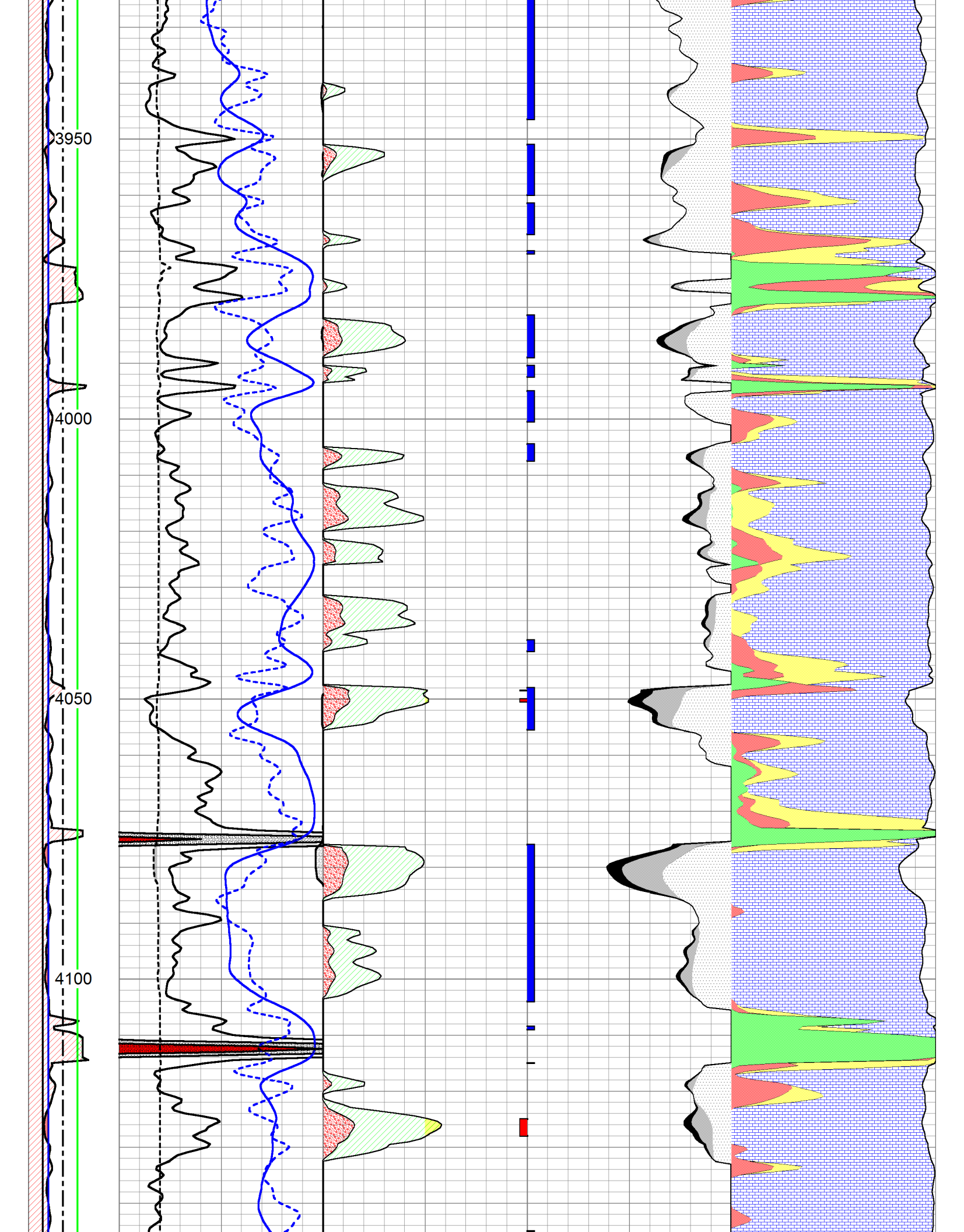


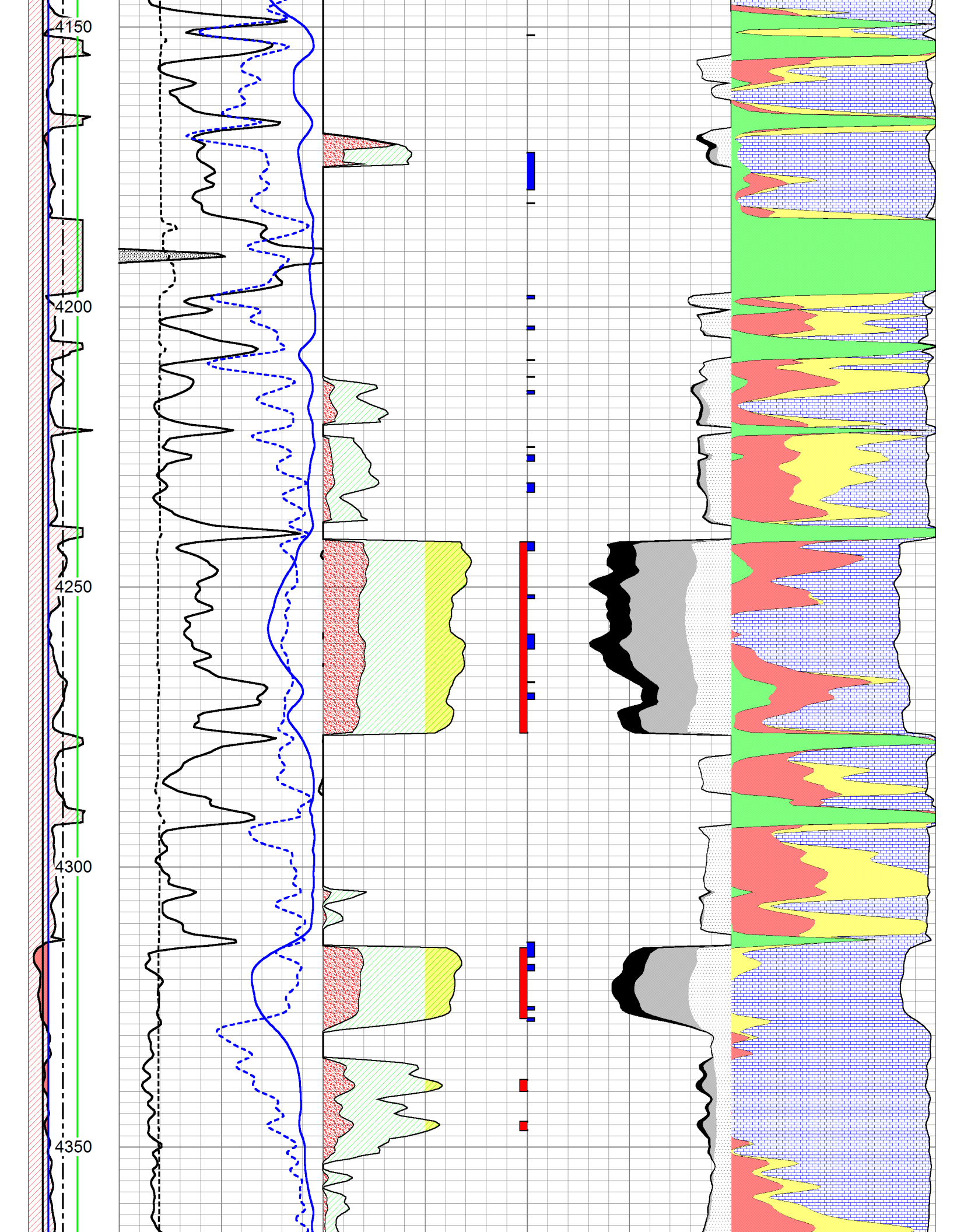

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3100
3150
3200
3250

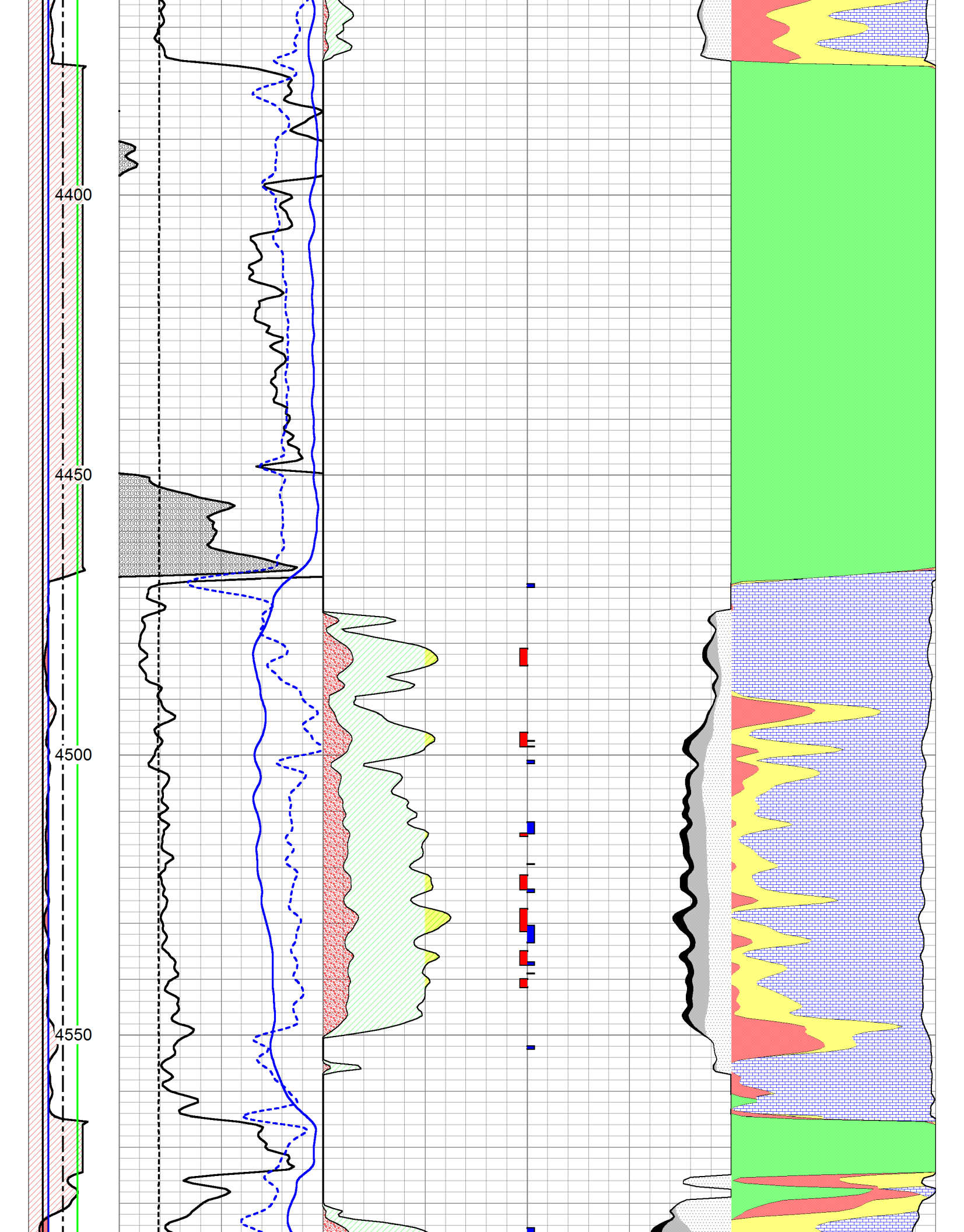

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3350
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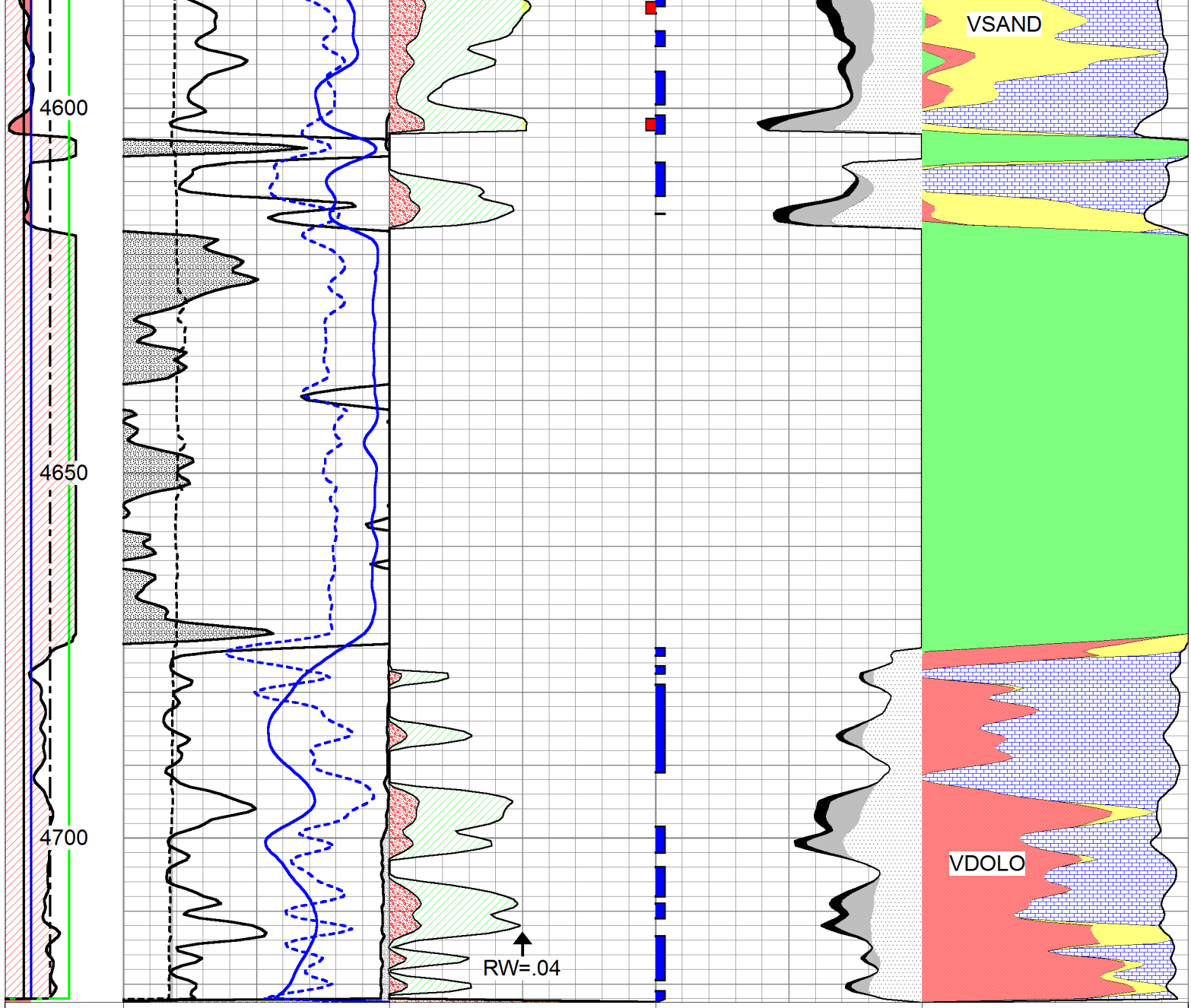

3500
3550
3600
3650
3700
Rxo/Rt
Gamma Ray
50% Dolo
SPC
SXO
SW
DGA
100% Dolo
Lime
Caliper
Sand
PHIE
Perm
BVW
VCL


3750
3800
3850
3900
VLIME


3950
4000
4050
4100


4150
4200
4250
4300
4350


4400
4450
4500
4550



DGA												
2.6	3.1	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1
		6	DCAL	16	30	PAYFLAG	0	0.3	BVW	0	0	VSAND	1
		-150	SPC (mV)	0	1	SXO	0	0	PERM	30	0	VLIME	1
								0.3	BVWSXO	0	0	VDOLO	1