PIONEER

Pioneer Energy Services

Computer Processed Interpretation

API No. 15-193-20859-00-00

Company Russell Oil, Inc.

Well Hazel Russell #1-35

Field Wildcat

County Thomas State Kansas

Location 4436' FSL & 434' FWL

Sec: 35 Twp: 10S Rge: 34W

Permanent Datum Ground Level Elevation 3229

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

Drilling Measured From Kelly Bushing

Other Services
DIL/CNL/CDL
MEL

Elevation
K.B. 3240
D.F.
G.L. 3229

Curve Definitions	
Date Recorded	8/29/2012
Depth Logger	4846
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	D. Schmidt
Witnessed By	Kitt Noah
Analysis By	T. Martin

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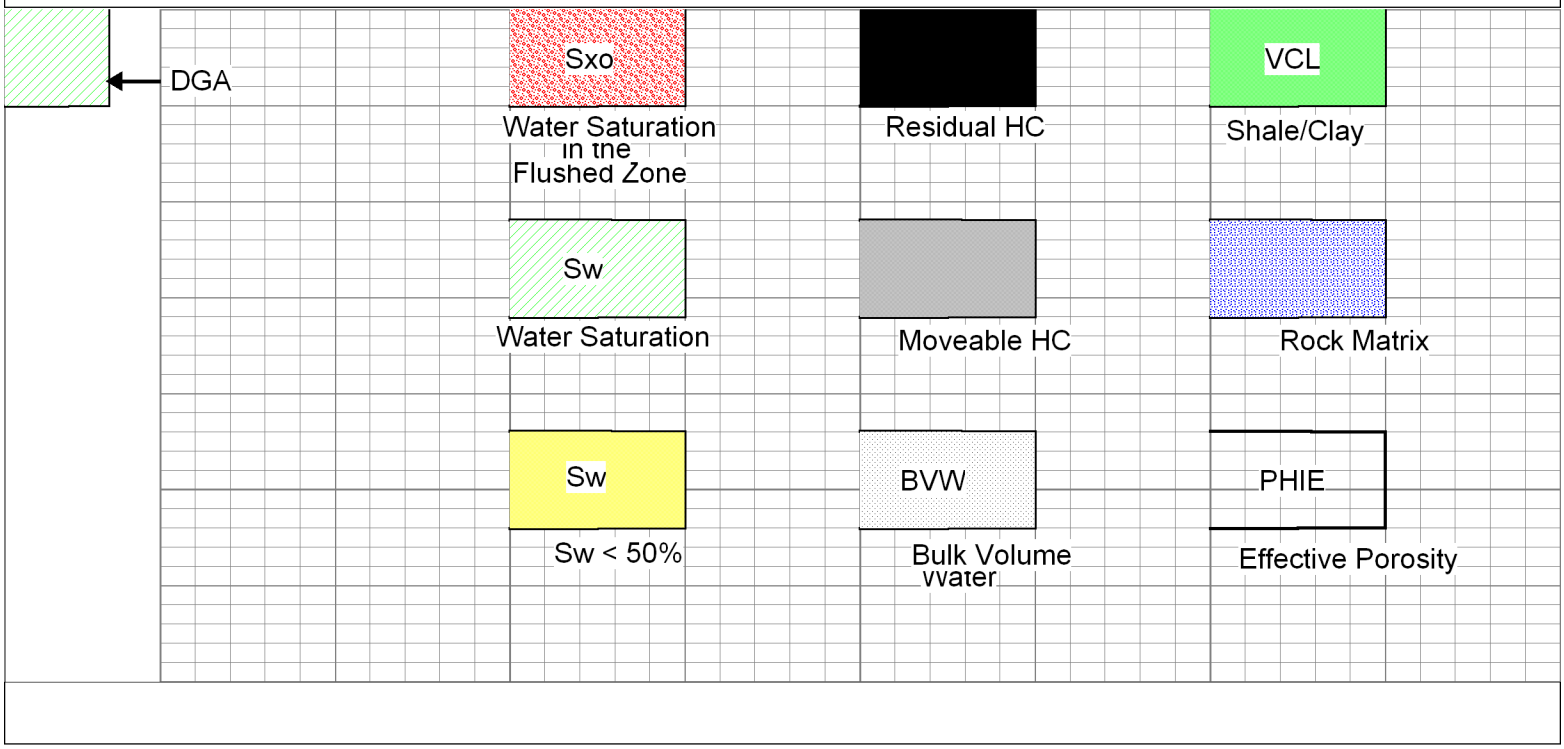
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

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Monument,
West to Hwy 25, 2 North to county line (Fort Fox Rd),
2 West, North to location

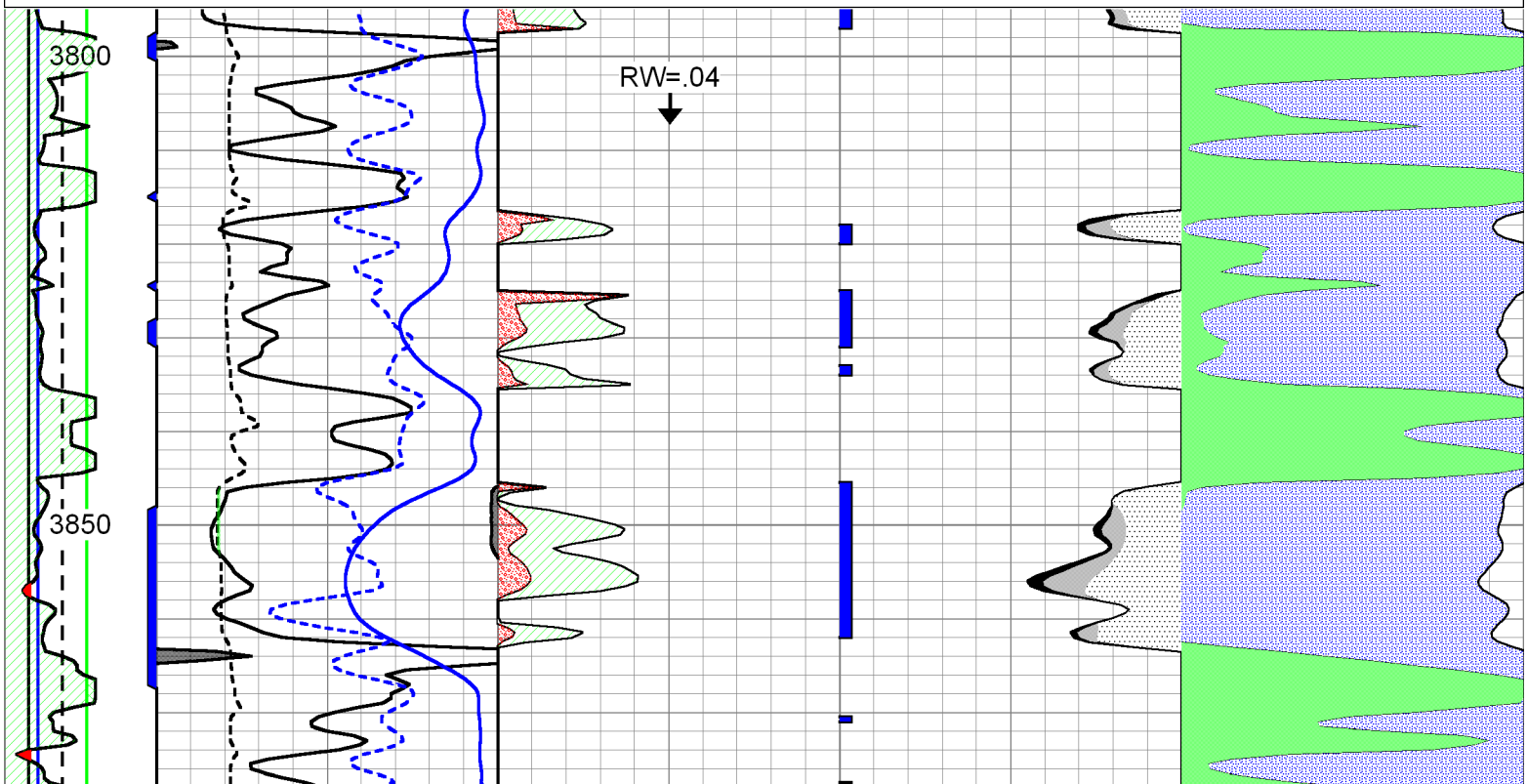
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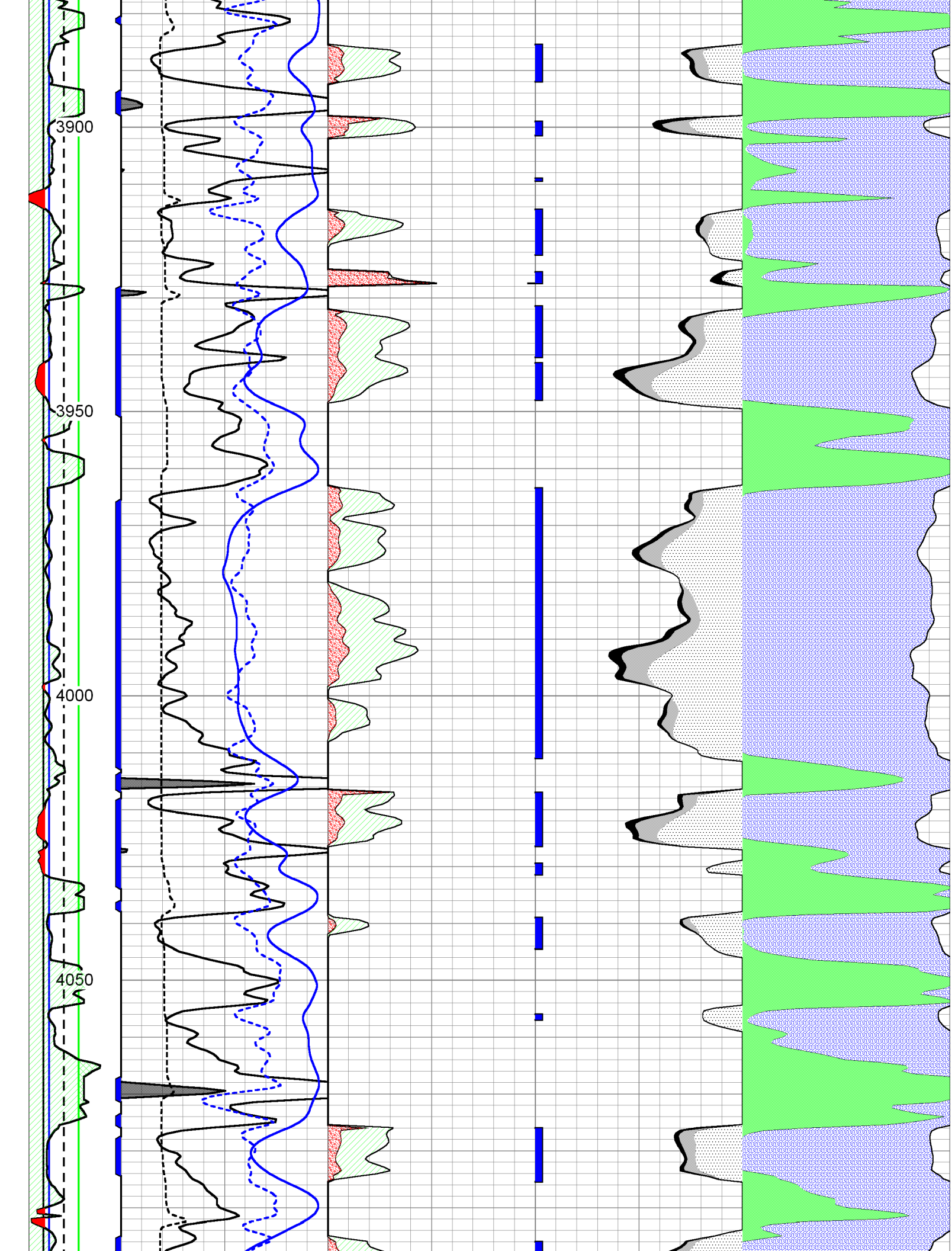


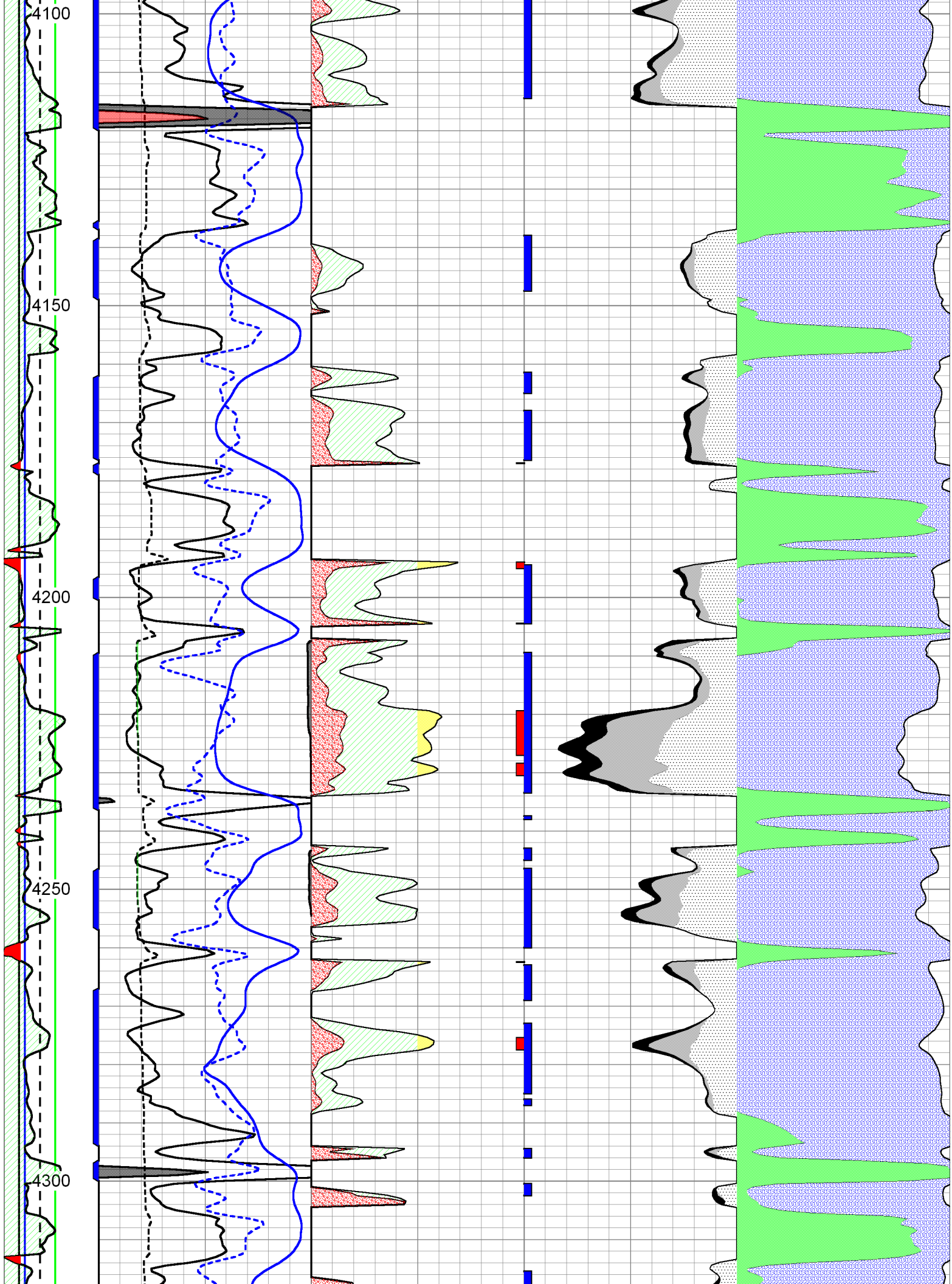
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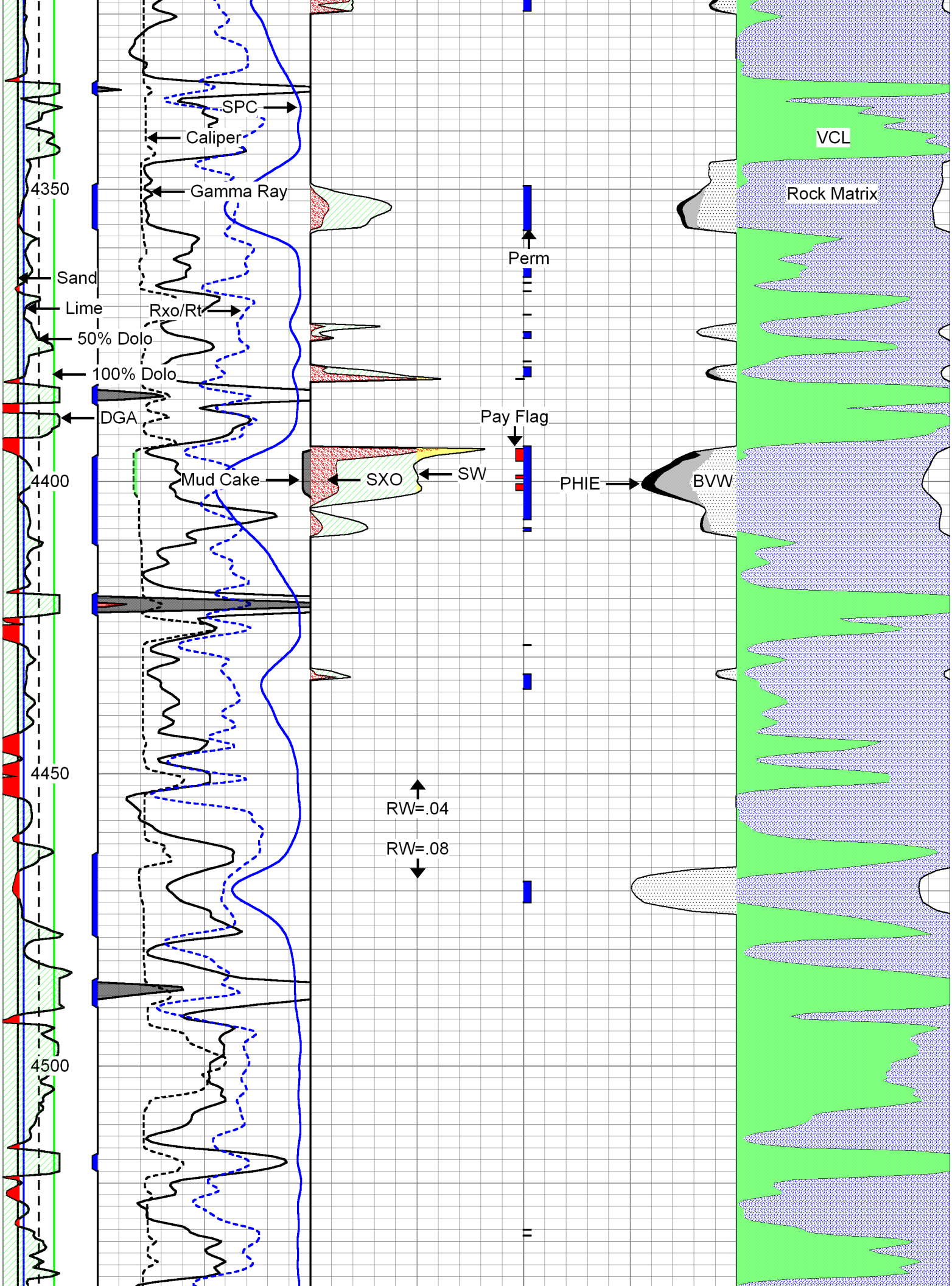
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	DGA		-150	SPC	0	1	SXO	0	0	PERM	30
2.6		3.1							0.3	BVWSXO	0

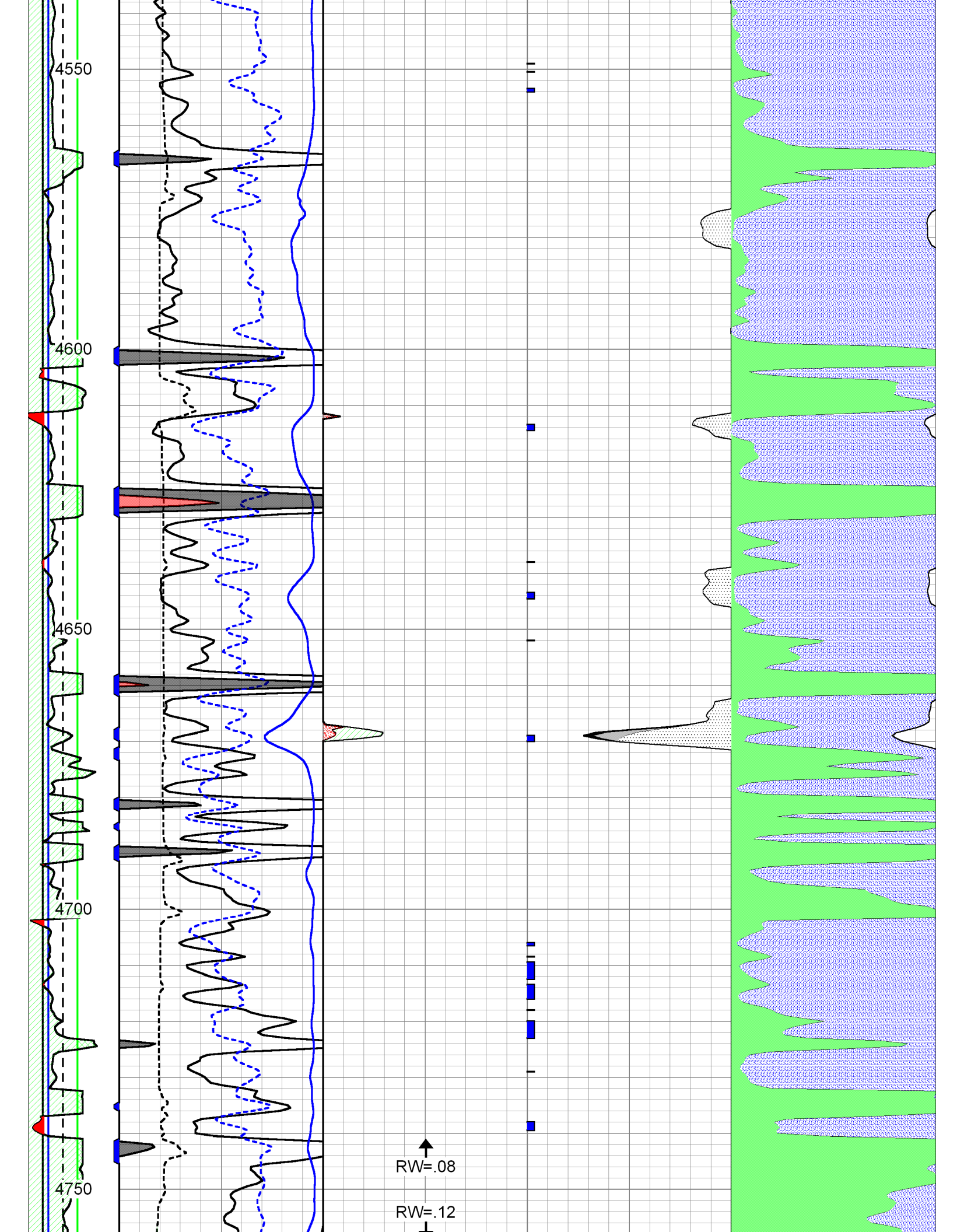
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1	PHIE	0

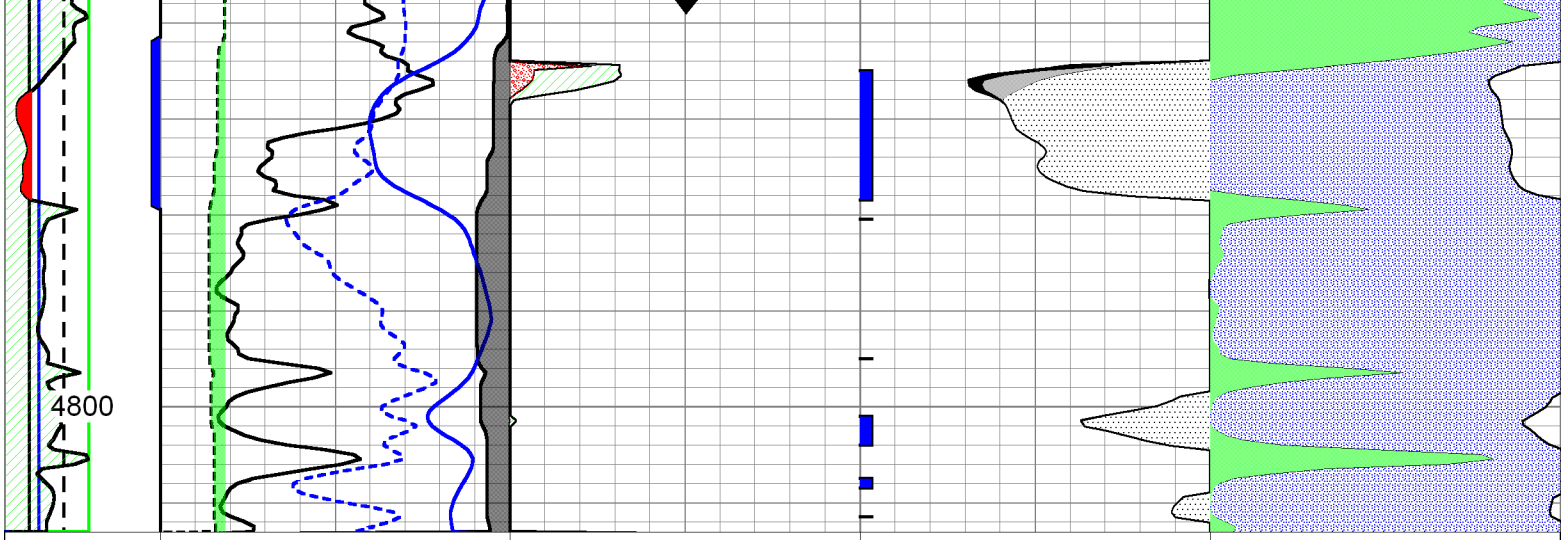



3900
3950
4000
4050


4100
4150
4200
4250
4300


SPC
Caliper
Gamma Ray
4350
Sand
Lime
Rxo/Rt
50% Dolo
100% Dolo
DGA
Perm
Pay Flag
Mud Cake
SXO
SW
PHIE
BVW
4400
4450
RW=.04
RW=.08
4500
VCL
Rock Matrix


4550
4600
4650
4700
4750
RW=.08
RW=.12



20	CLF	1	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0
2.6	LM	3.1	6	DCAL (GAPI)	16	30	PAYFLAG	0	0.3	BVW	0
	DGA		-150	SPC	0	1	SXO	0	0	PERM	30
2.6		3.1							0.3	BVWSXO	0

0	VCL	1
1	PHIE	0