

U1520B

ProVision Plus Processed Results

Using the following logs:

ProVision Plus

COMPANY:	IODP
WELL:	U1520B
FIELD:	HSM-05A
RIG:	Joides Resolution
STATE:	
COUNTRY:	New Zealand
Date Logged:	30-Dec-2017
Date Processed:	2-Jan-2018
Run no.	1
Depth Driller (m):	4288.4
Depth Logger (m):	4288.4
Elevations (m):	D.F.: 11 m G.L.: -3527.3 m
Permanent Datum:	MSL
Log Measured From:	DF

FOLD HERE: The well name, location and borehole reference data were furnished by the customer.

Any interpretation, research, analysis, data, results, estimates, or recommendation furnished with the services or otherwise communicated by Schlumberger to the customer at any time in connection with the services are opinions based on inferences from measurements, empirical relationships, and/or assumptions; which, inferences, empirical relationships and/or assumptions are not infallible and with respect to which professionals in the industry may differ. Accordingly, Schlumberger cannot and does not warrant the accuracy, correctness, or completeness of any such interpretation, research, analysis, data, results, estimates, or recommendation. The customer acknowledges that it is accepting the services "as is," that Schlumberger makes no representation or warranty, express or implied, of any kind or description in respect thereto, and that such services are delivered with the explicit understanding and agreement that any action taken based on the services received shall be at its own risk and responsibility, and no claim shall be made against Schlumberger as a consequence thereof.

Field Recording:	Location:	Software vers: Maxwell	Engineer: David Pedulla / Liam
Office Processing:	Location: PTS Perth	Software vers: Techlog 2017	Analyst: Boon Cheong
Mud and Borehole Measurements:			
Rm @ Measured Temperature: 0.2 ohm @ 23.889 degC	BHT: N/A	BS: 8.5"	
Rmf @ Measured Temperature: 0.15 ohm @ 20 degC	Fluid in Hole: Water	Mud Density: 8.6 lbm/gal	
Rmc @ Measured Temperature: N/A	Mud pH: N/A	Fluid Loss: N/A	

Remarks:

1. ProVision Plus processing results
2. Data may be affected by borehole condition

Acquisition & Calibration

Echo Amplitude MC:	304.737	Number Sub-Meas:	3
Frequency MC:	248.923 (kHz)	Number Echoes:	1500;64;32;0;0
Antenna Q MC:	125.948	Number Repeats:	1;32;64;0;0
Temperature MC:	26 (degC)	Echo Spacing:	1200;800;600;0;0 (us)
Loop MC:	500.598	Wait Time:	12.7755;0.048;0.016;0;0 (s)

Processing Parameters

Preprocessing

Stacking Levels:	9
Despike:	yes
Burst Baseline Corr:	no
Bend Ringing Corr:	no
Signal Phasing:	Auto

Inversion

T2 Minimum:	0.5 (ms)
T2 Maximum:	5000 (ms)
Inversion Components:	30
Interpolation:	64
Sub Measurements:	1;2;3
Start Echo:	2;2;2;2;2
EPM Processing:	Auto
T1/T2 Input:	1.5
Polarization Correction:	no
Regularization:	Manual
Regularization Factor:	0.2

LQC Threshold Parameters

Polarization Corr Threshold:	0.015 (m3/m3)
Bad Hole Porosity:	0.4 (m3/m3)
Bad Hole T2:	10 (ms)

Bound Fluid Permeability and Bin Porosity

Parameters

T2 Cutoff: 33 (ms)

Permeability

Computed:	yes	SDR	no
Multiplier:	1		4
Porosity Exponent:	4		4
Ratio/T2LM Exp:	2		2
Bound Fluid Min:	0.01 (m3/m3)		

Timur

SDR

Bin Porosities (ms)

0.5 1 3 10 33 100 300 1000 5000



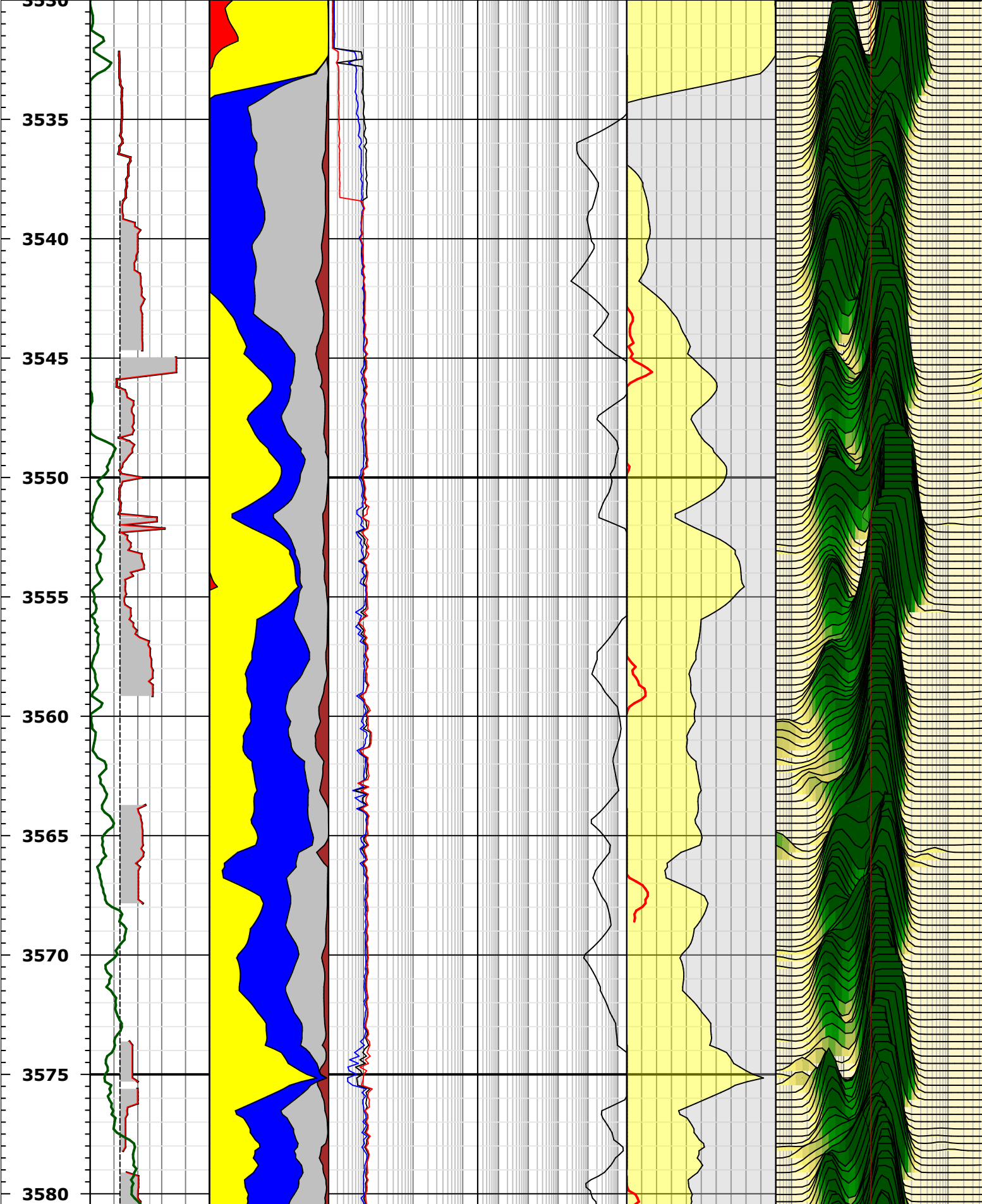
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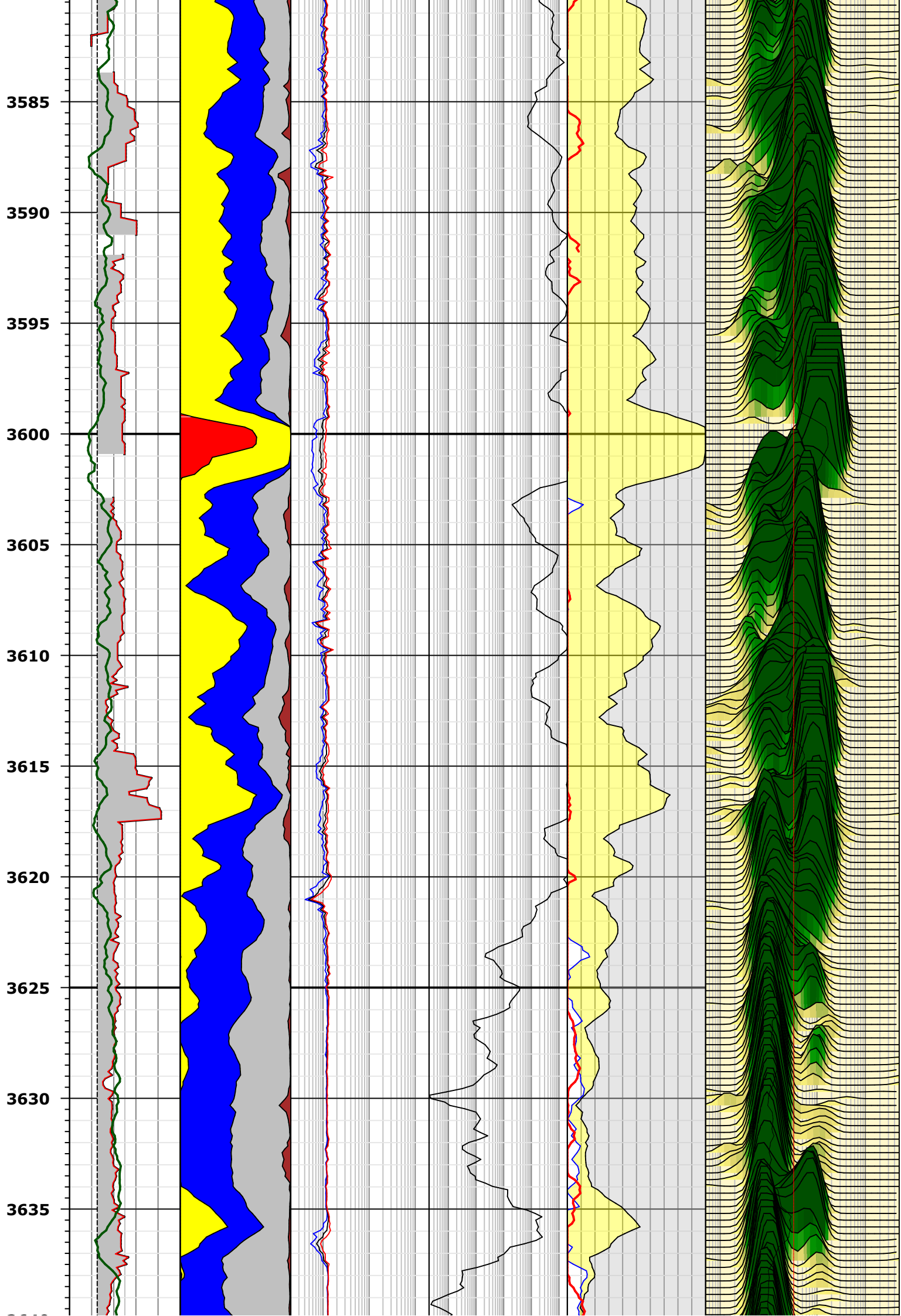
Bins 7 & 8

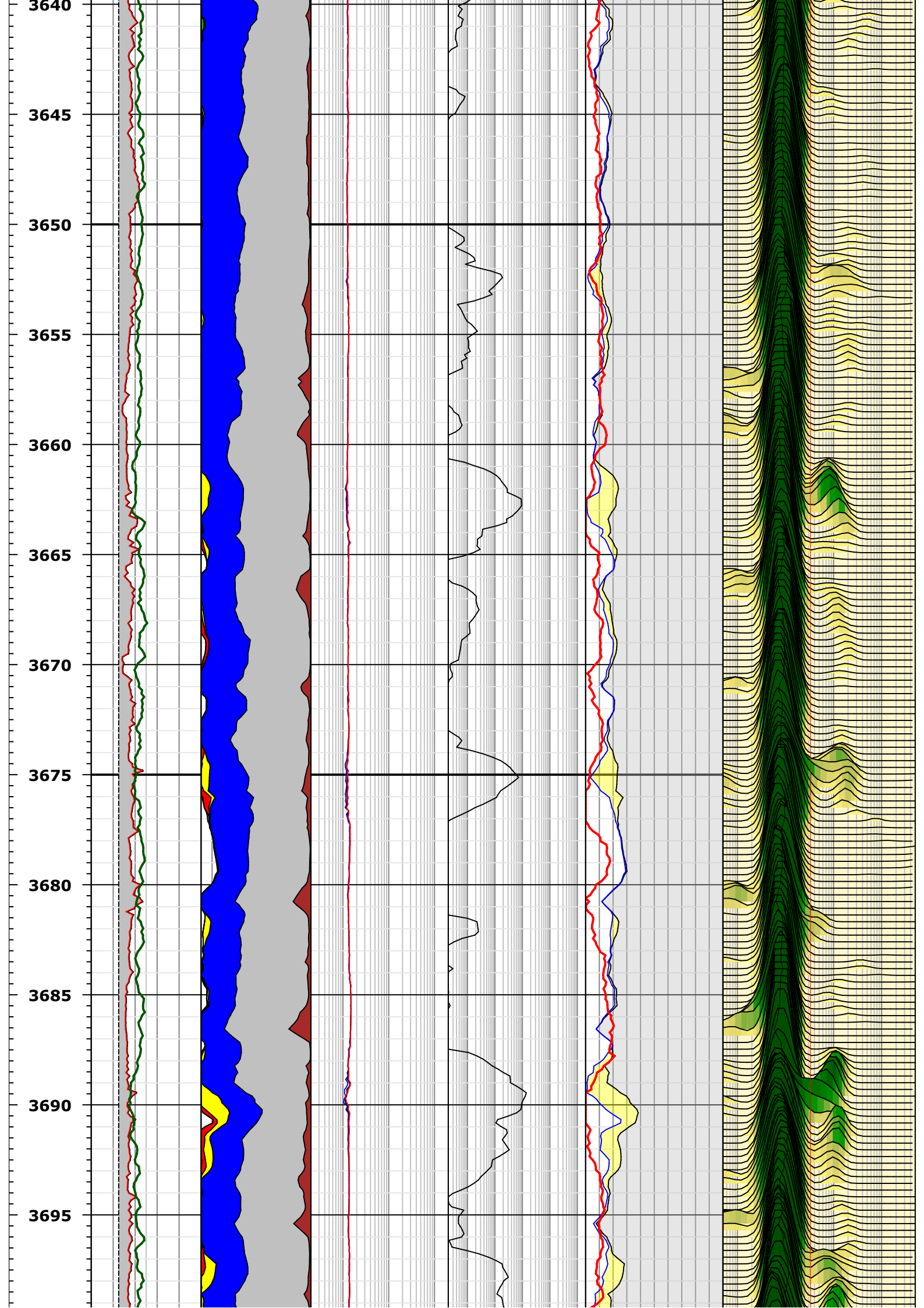
Bin 6

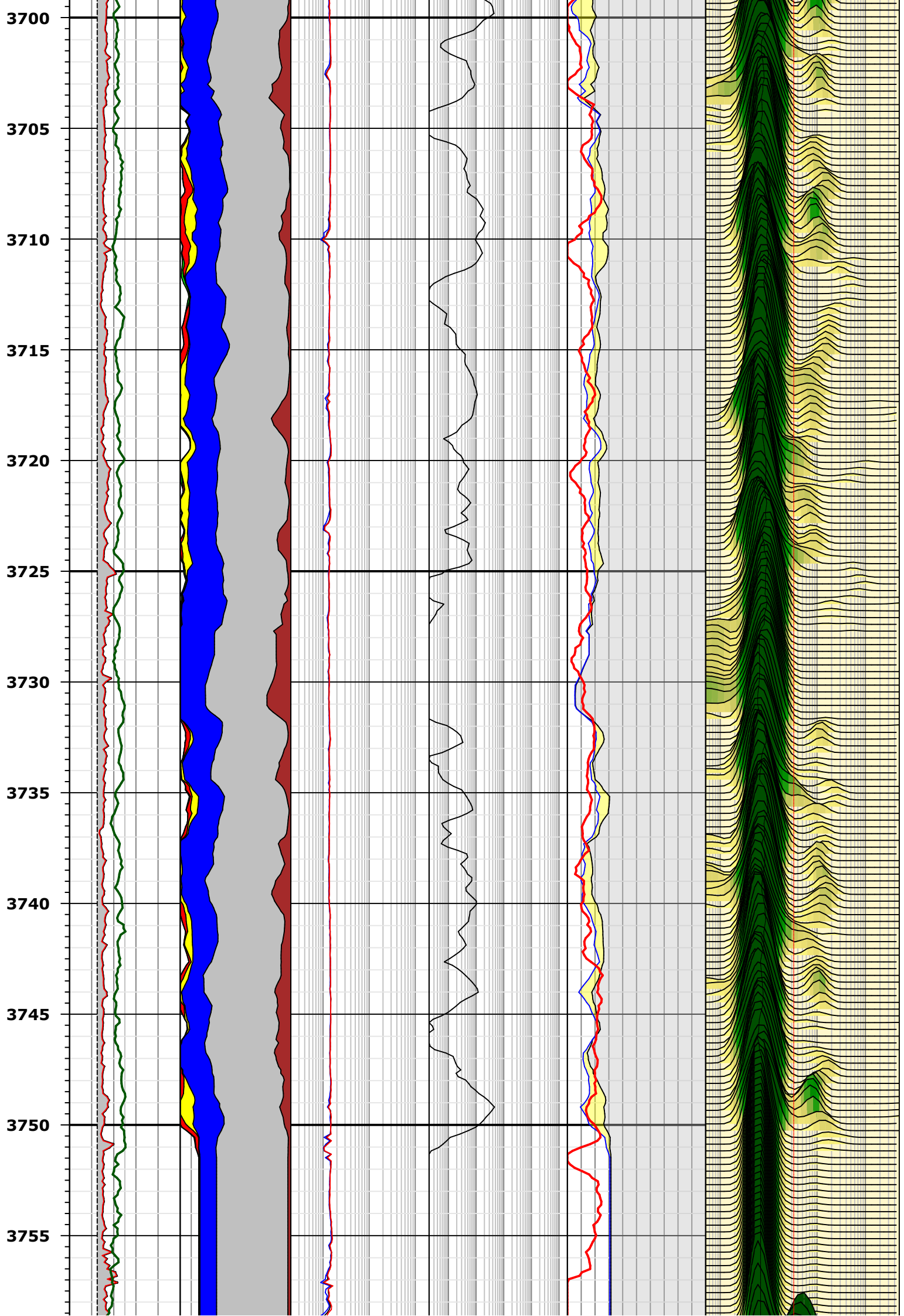


Reference (m)	UCAV/BS	Bin 5			Free Fluid		NMR	
	GRMA	Bin 4			Bound Fluid		0.00	0.02
	0 gAPI 150	Bin 3	P40H		RHON		0	T2DIST_2D (m3/m3) 0.05
	UCAV	Bins 1 & 2	0.2 ohm.m 200		1.6 g/cm3 2.6		0.5	(ms) 5000
	6 in 16	MRP_2D	P28H		MRP_2D		0.5	T2CUTOFF_PV
	BS		0.2 ohm.m 200		0.6 m3/m3 0		0.5	ms 5000
6 in 16	MRP_2D	P16H		KTIM_PV	BFV_PV		T2LM_2D	
	0.5 m3/m3 0	0.2 ohm.m 200		0.2 mD 20000	0.6 m3/m3 0		0.5	ms 5000

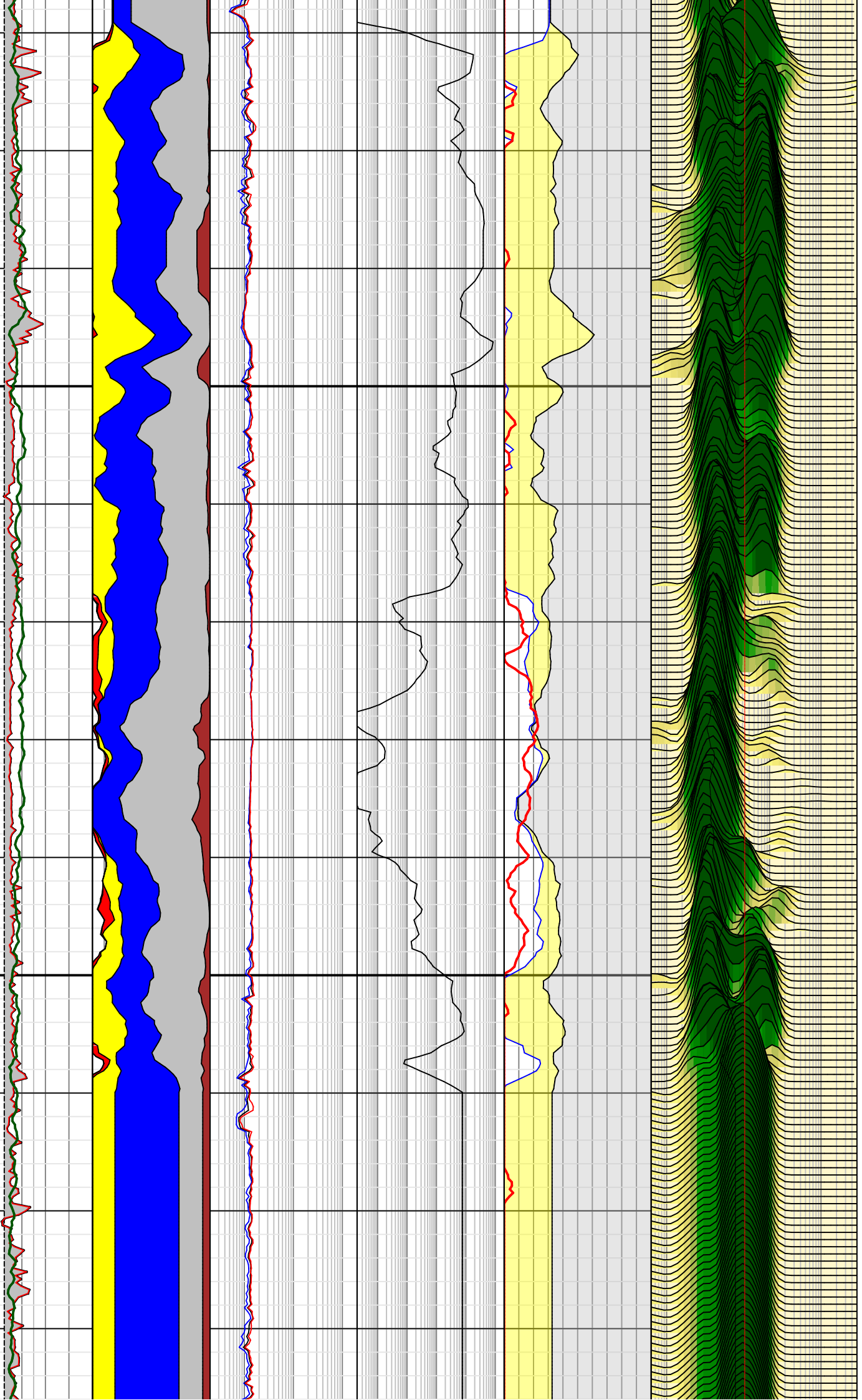




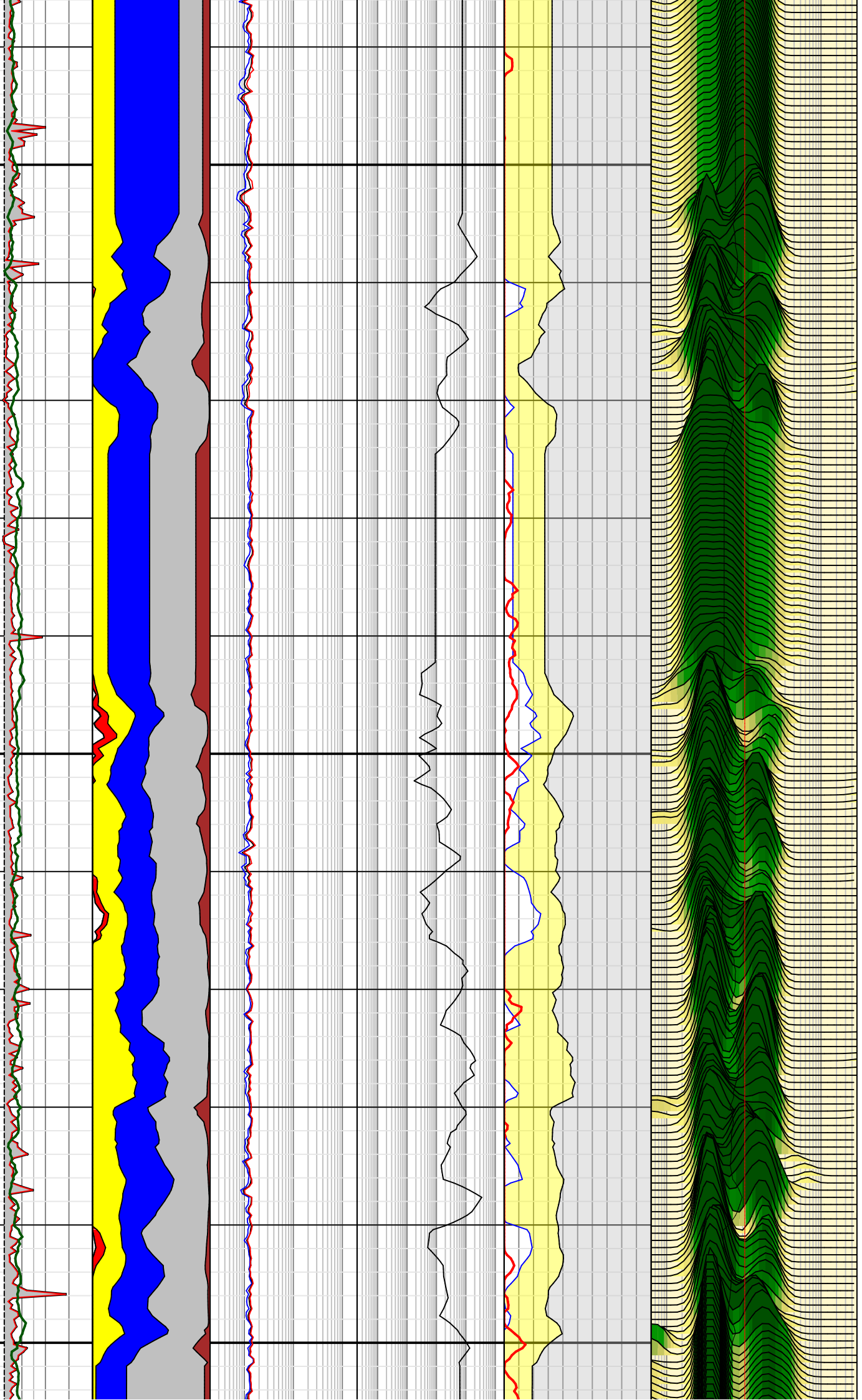


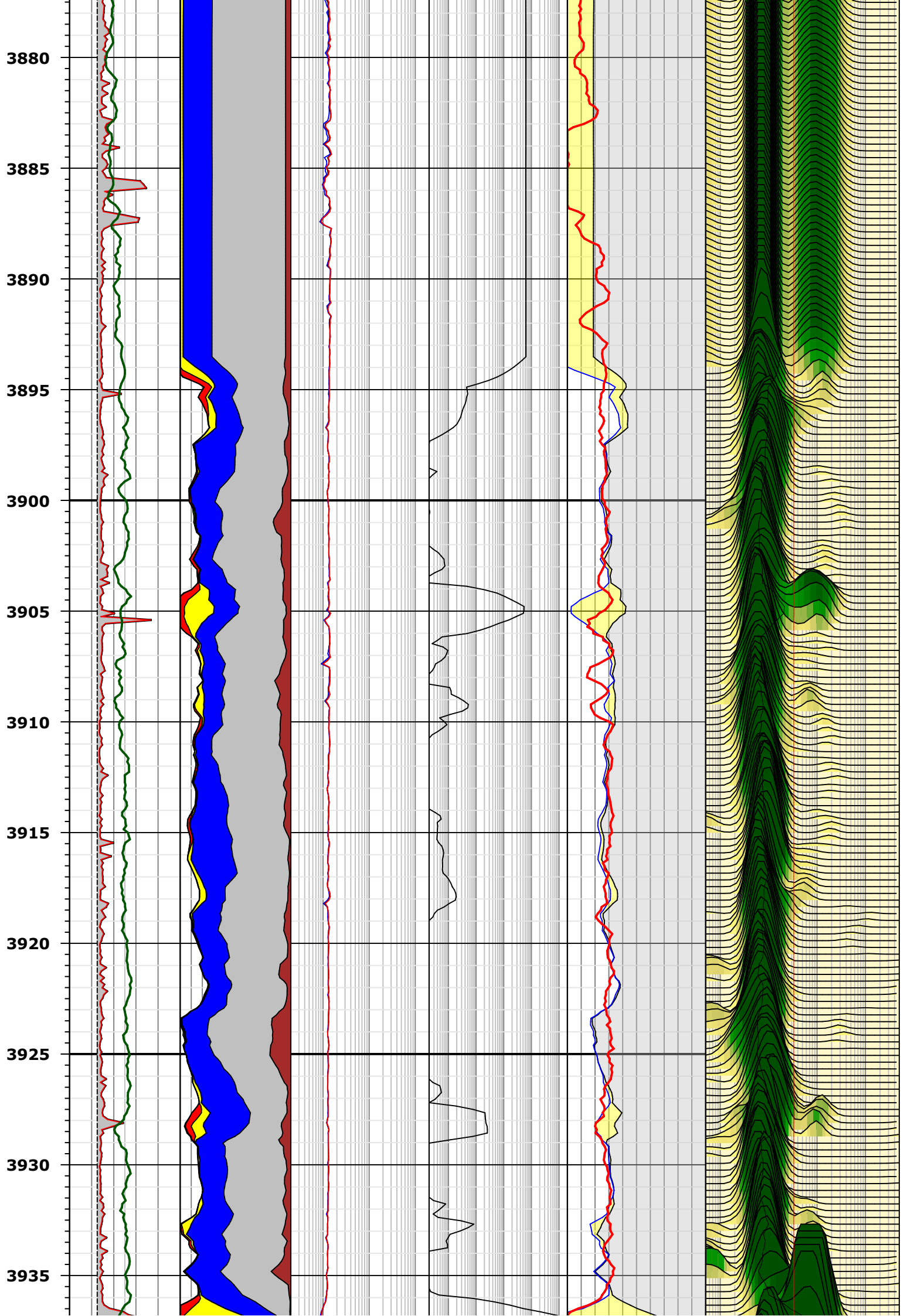


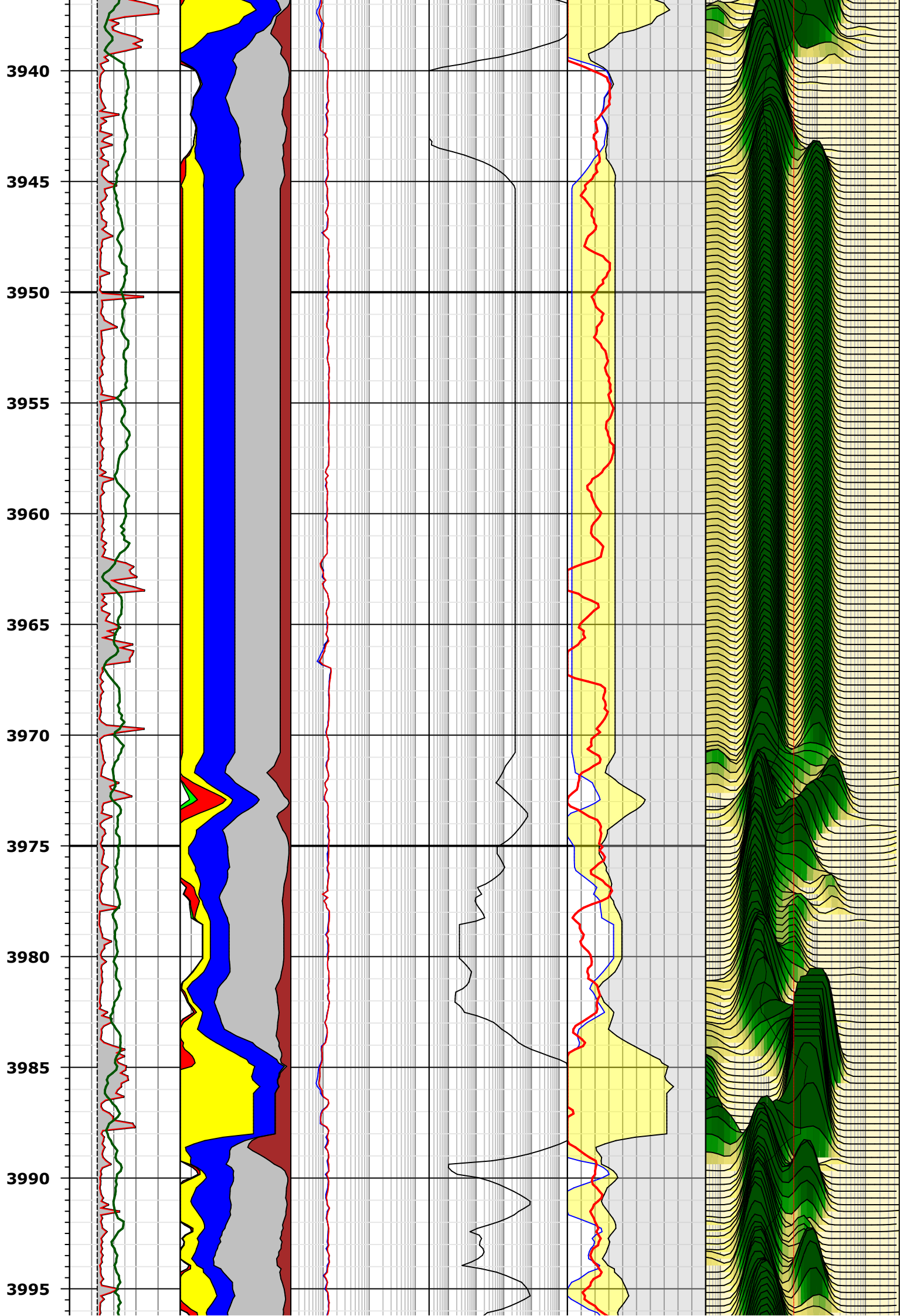
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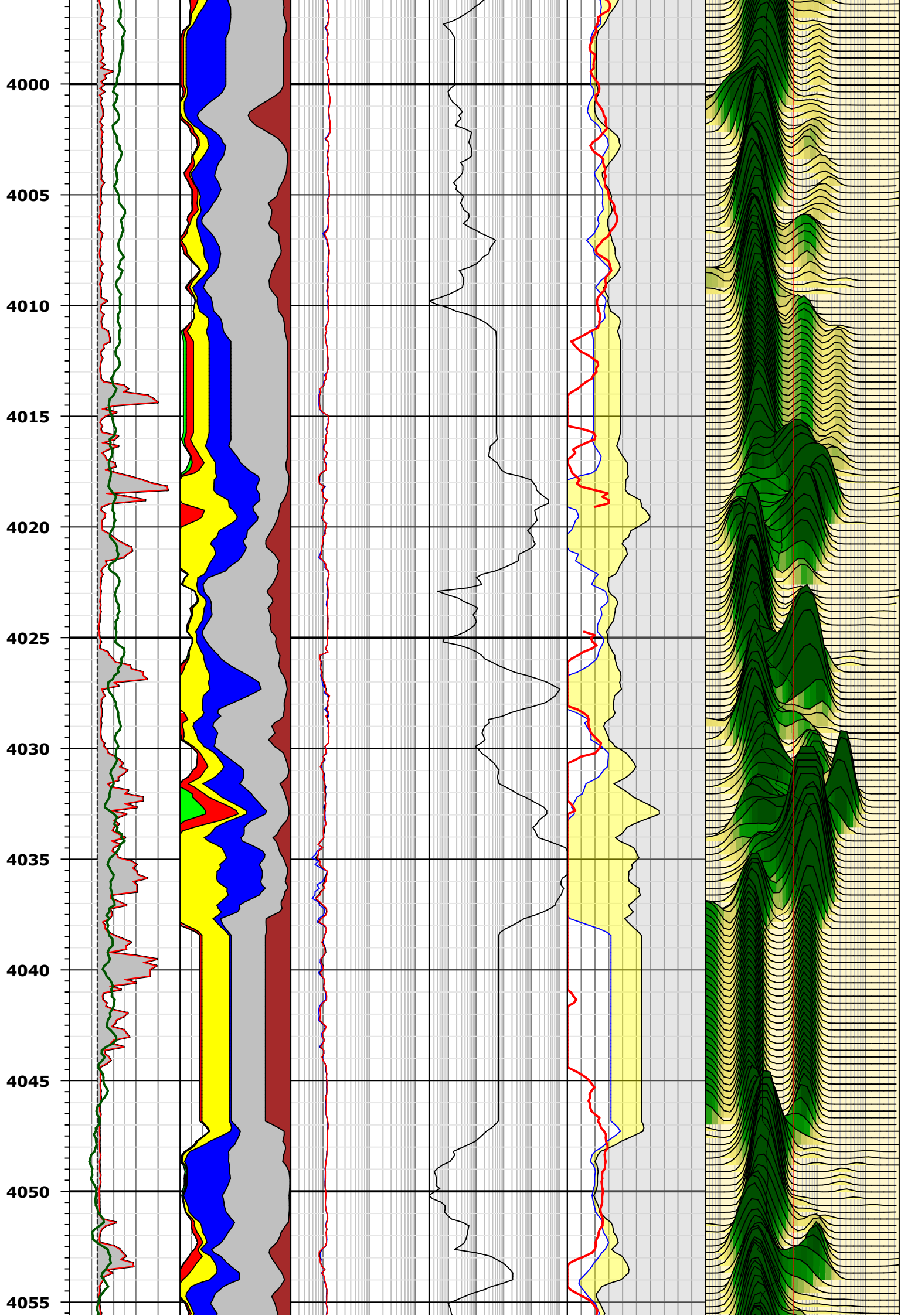


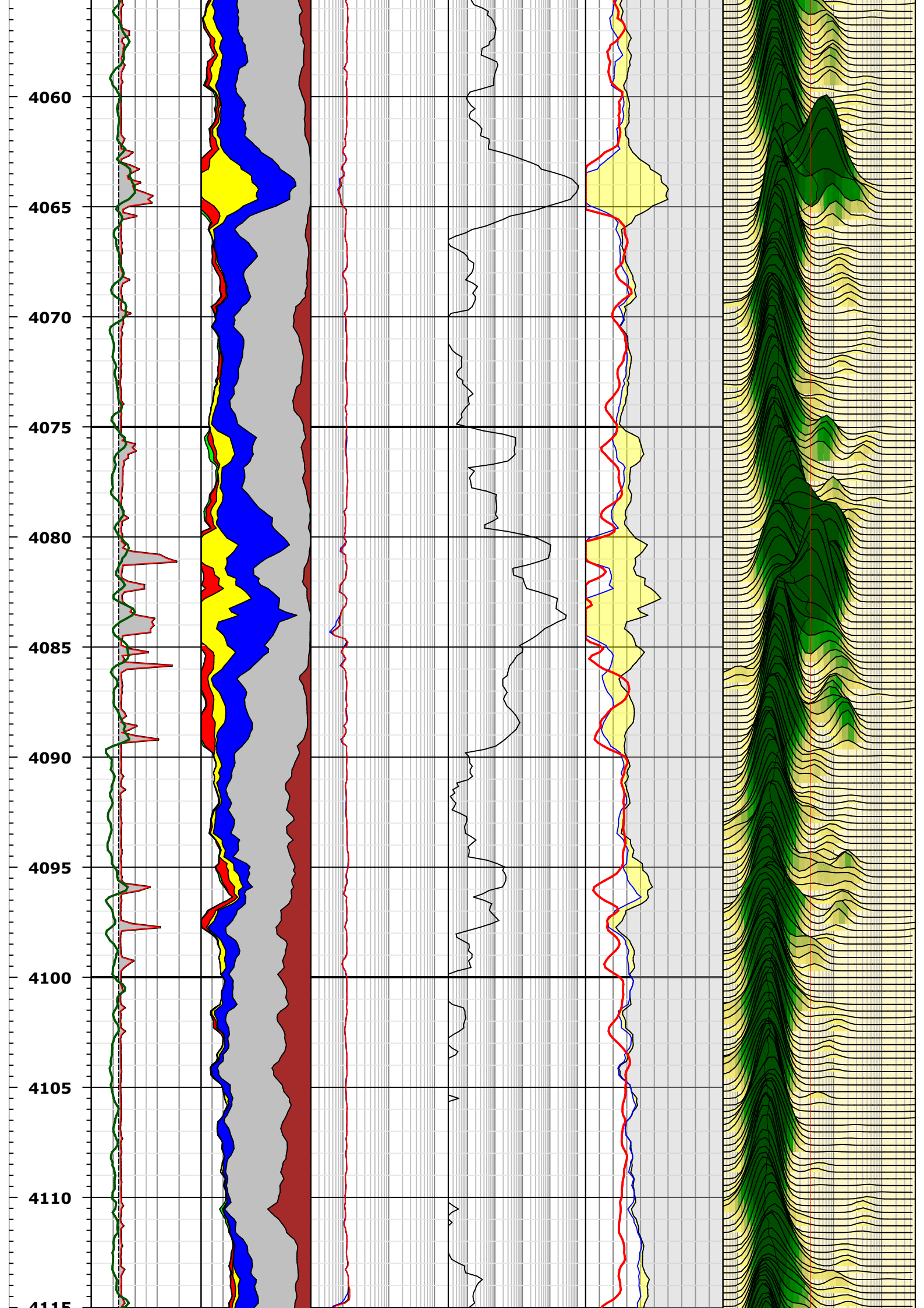
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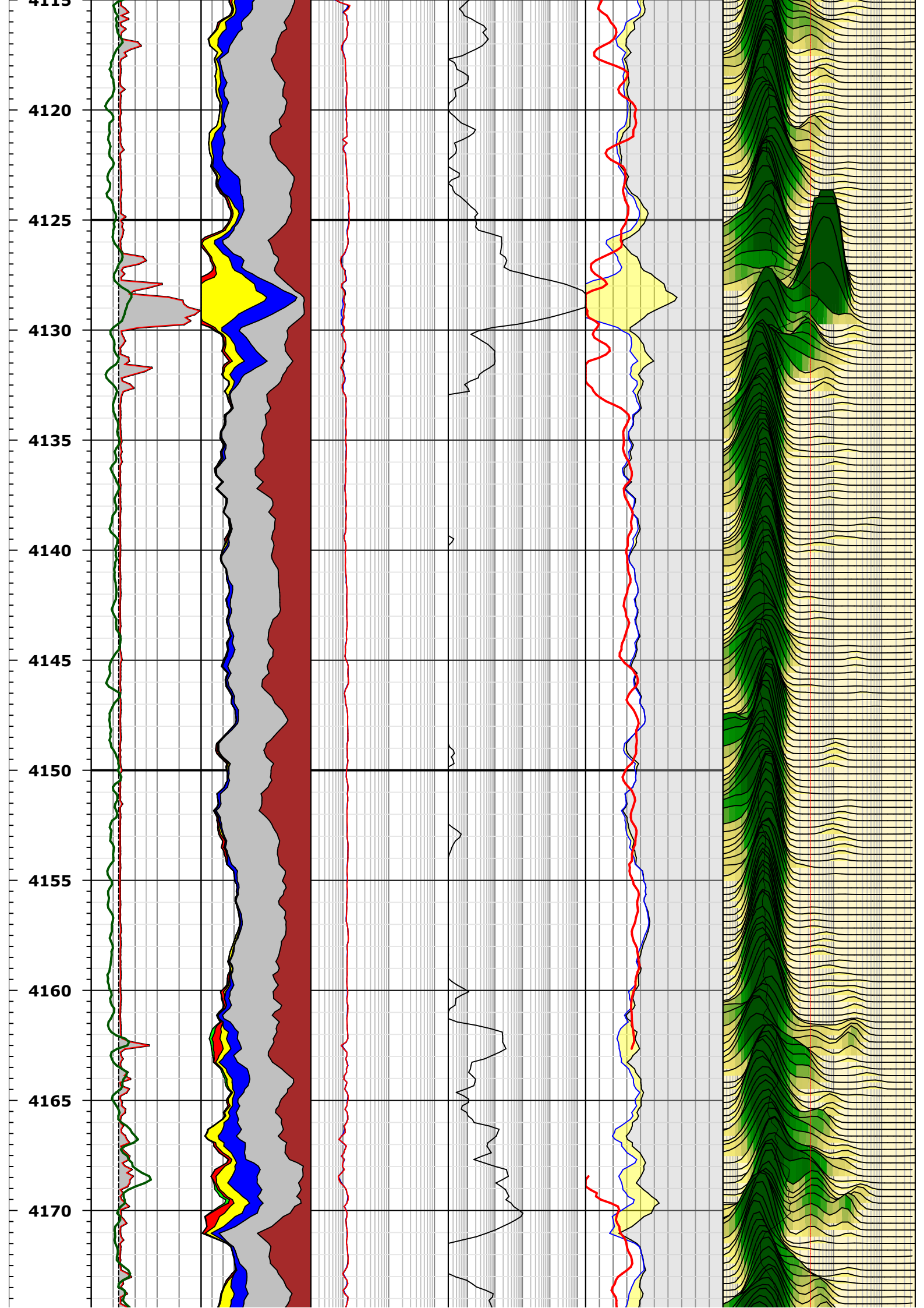


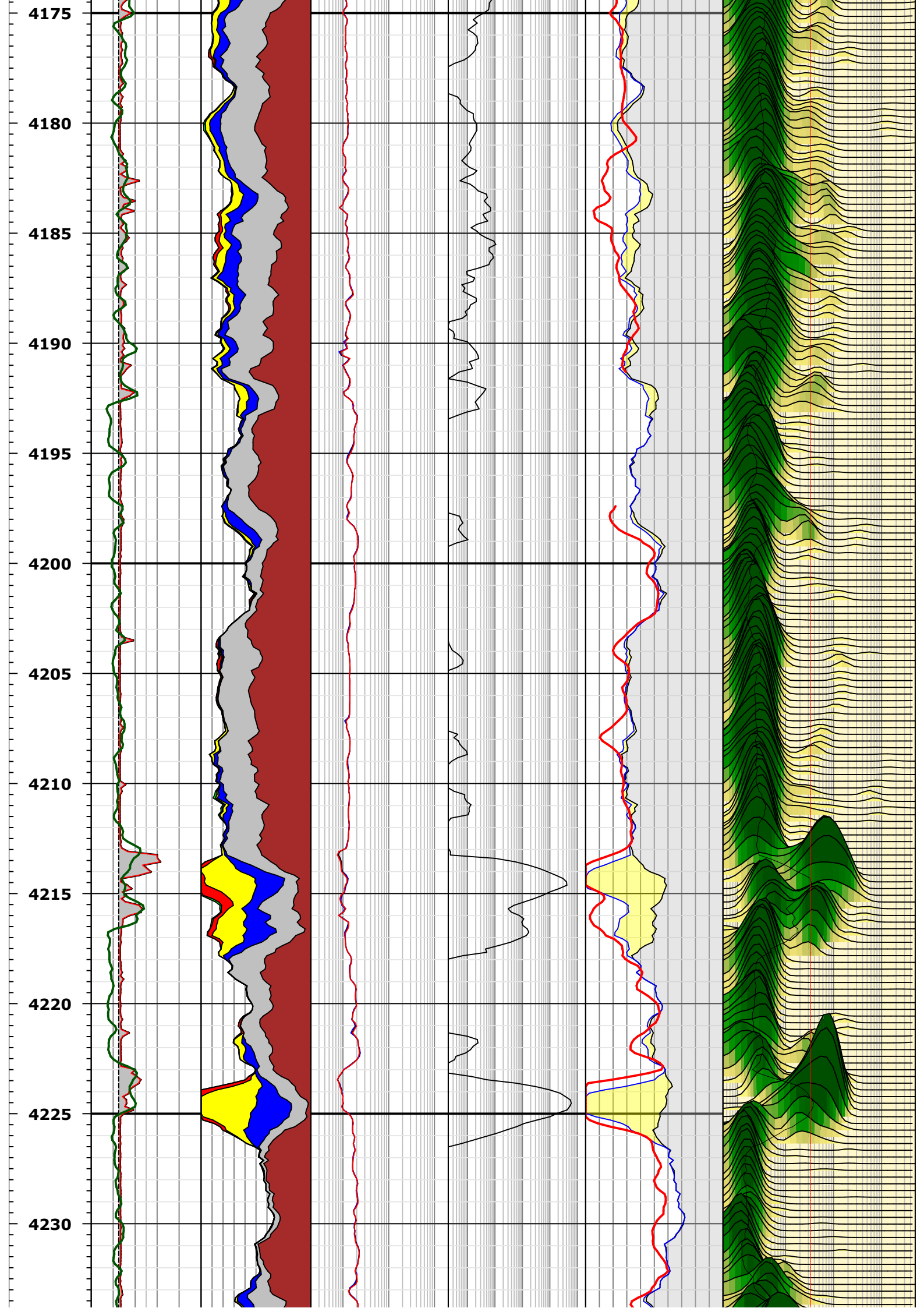


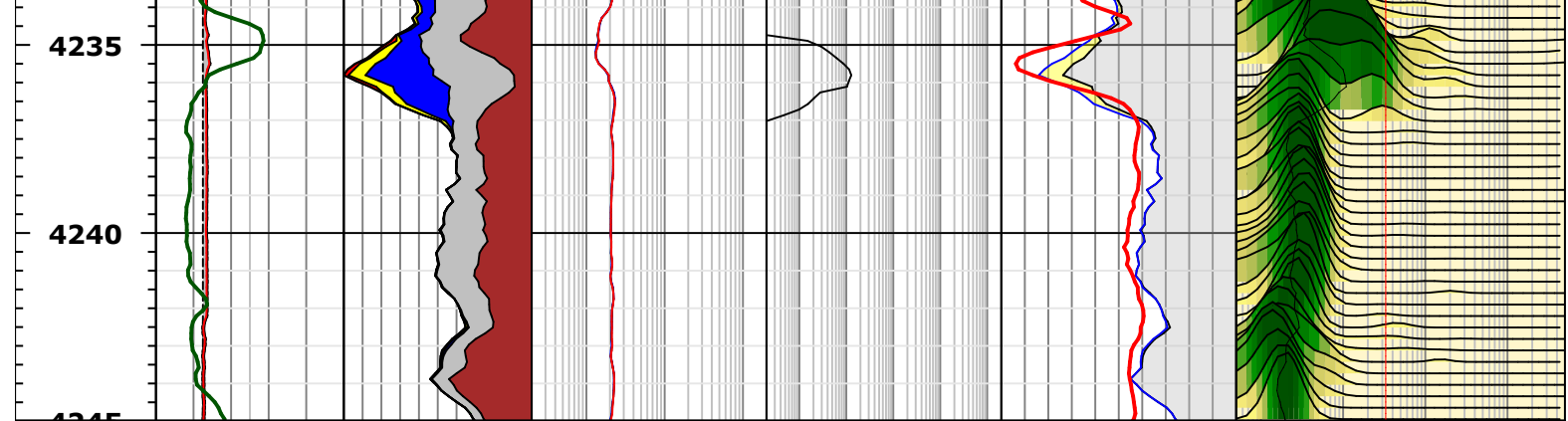












Reference (m) 1:200		Bins 7 & 8					
		Bin 6					
		Bin 5				Free Fluid	
	UCAV/BS	Bin 4			Bound Fluid	NMR	
	GRMA	Bin 3	P40H			0.00	0.02
	0 gAPI 150		0.2 ohm.m 200			0 T2DIST_2D (m3/m3) 0.05	
	UCAV	Bins 1 & 2	P28H		RHON	0.5	(ms) 5000
	6 in 16	MRP_2D	0.2 ohm.m 200		MRP_2D	T2CUTOFF_PV	
	BS		P16H	KTIM_PV	0.6 m3/m3 0	0.5	ms 5000
	6 in 16	0.5 m3/m3 0	0.2 ohm.m 200	0.2 mD 20000	BFV_PV	T2LM_2D	
				0.6 m3/m3 0	0.5	ms 5000	