



Triple Combo
4-Mineral/Dual Water
NMR
Core Data

API WELL NO. 15077219400000

CLIENT
COMPANY
WELL
FIELD
COUNTY

SANDRIDGE
VOGEL 3306 1-1
STOHRVILLE
HARPER
STATE KANSAS

LOCATION : TWP: - Range: - Sec.
(SHL) 660' FSL & 1980' FWL

OTHER COMPUTATIONS
Fw=0.03

PERMANENT DATUM GL ELEV. -999.25
LOG MEASURED FROM KB , ABOVE PERM DATUM
DRILLING MEASURED FROM KB

ELEV K.B. 1367
D.F.
G.L. 1357

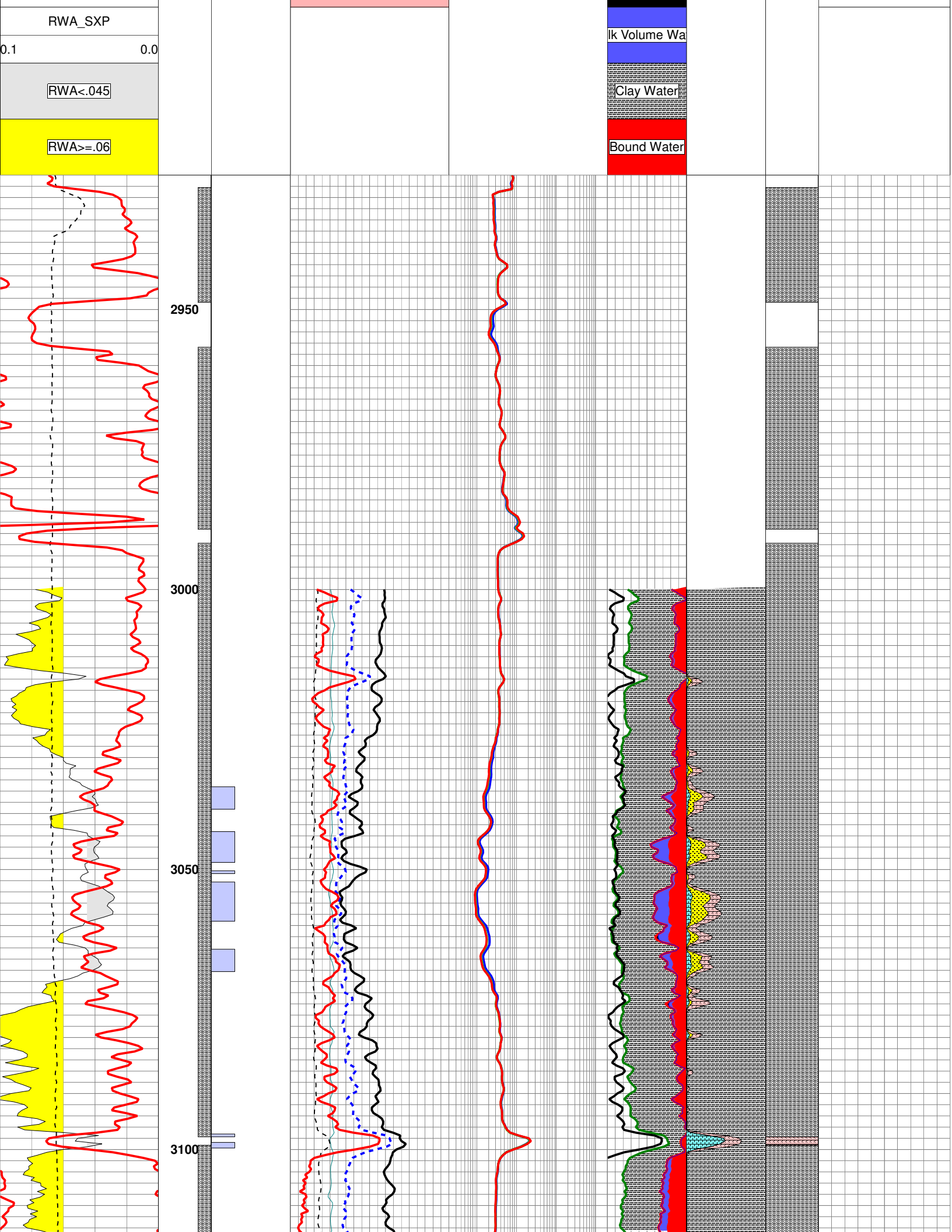
DATE	30 - JUN - 2013			
RUN NO.				
DEPTH - DRILLER				
DEPTH - LOGGER	4963			
BOTTOM LOGGED INTERVAL	4963			
TOP LOGGED INTERVAL	610			
CASING - DRILLER				
CASING - LOGGER				
BIT SIZE				
TYPE FLUID IN HOLE				
CASING SIZE	CASING WEIGHT			
DENSITY	VISCOSITY			
PH	FLUID LOSS			
SOURCE OF SAMPLE				
R _m @ MEASURED TEMP.	@	@	@	@
R _{mf} @ MEASURED TEMP.	@	@	@	@
R _{mc} @ MEASURED TEMP.	@	@	@	@
SOURCE : R _{mf} R _{mc}				
R _m @ BHT	@	@	@	@
CIRCULATION STOP DATE				
MAX. REC. TEMP				
Company	LOCATION	Halliburton		
RECORDED BY				
WITNESSED BY				

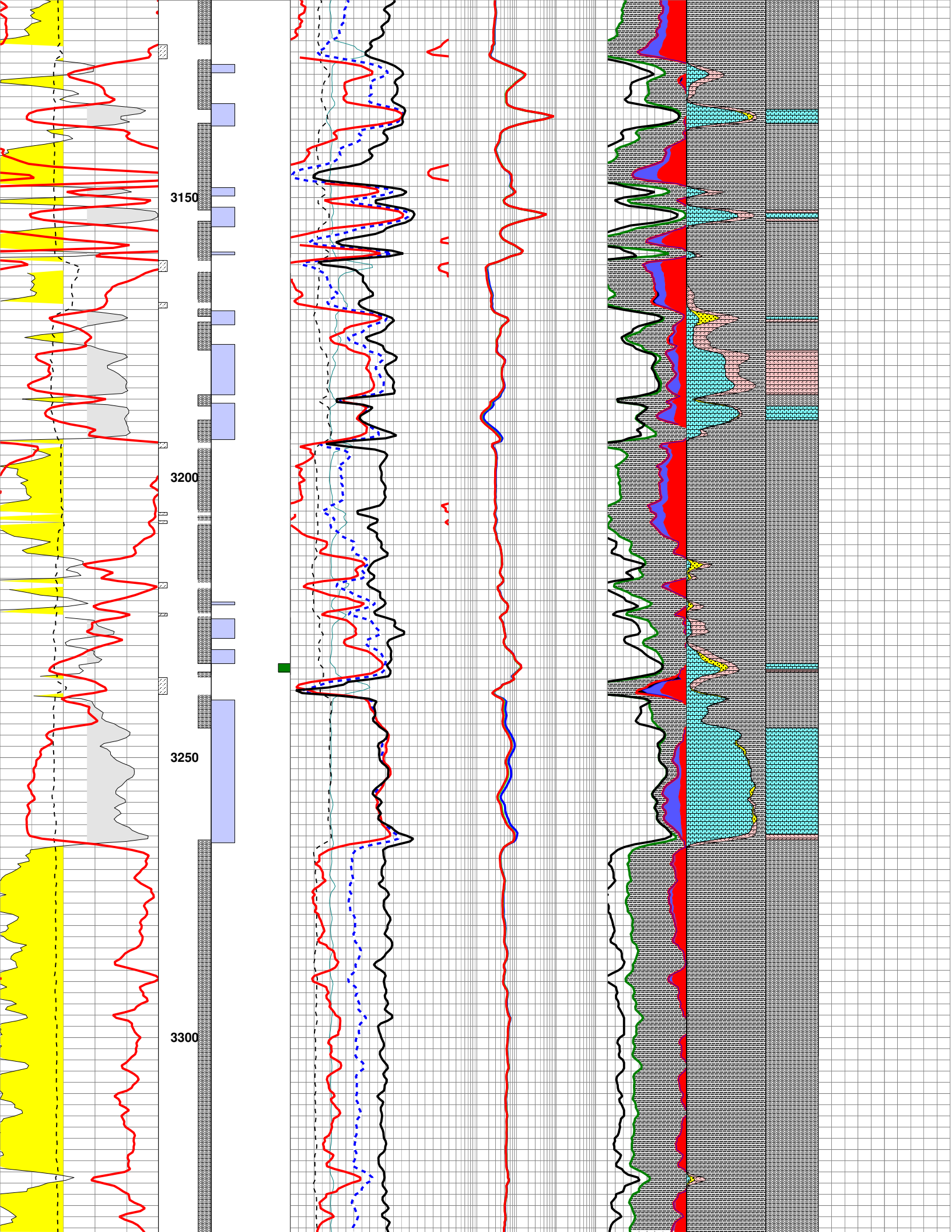
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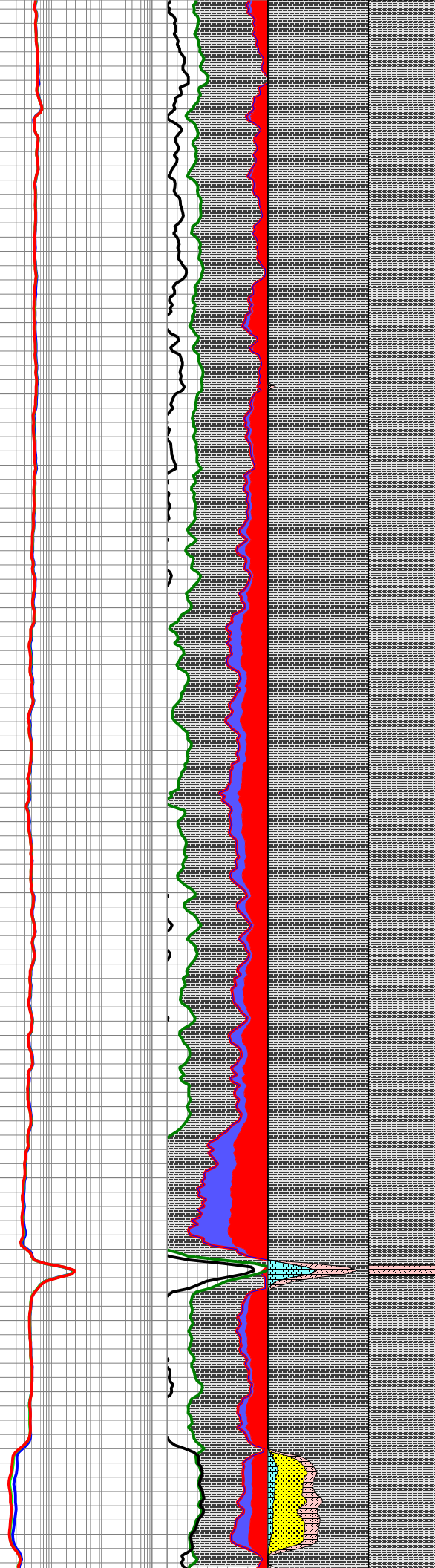
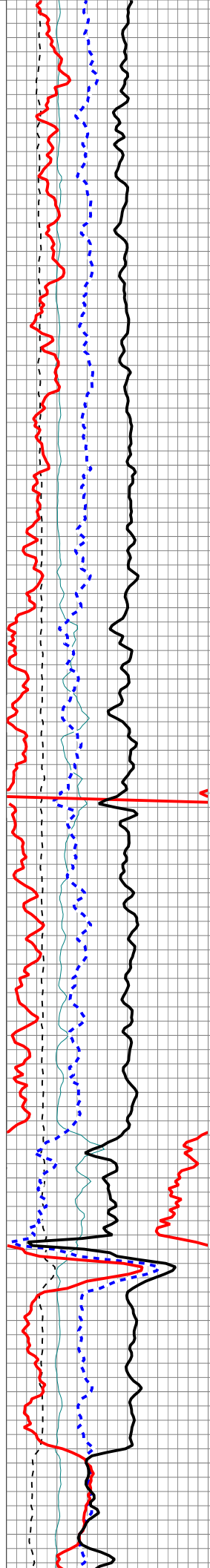
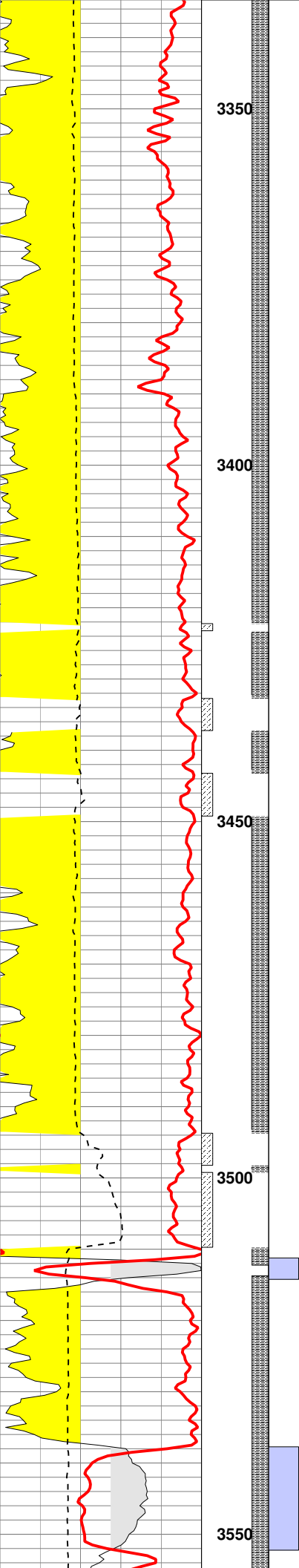
Interpretations are opinions based upon inferences from electrical or other measurements and algorithms, empirical relationships, and assumptions which are not infallible and with respect to which log analysts may differ. Accordingly, <Company Name> cannot and does not guarantee the accuracy or correctness of any interpretation and shall not be liable or responsible for any losses, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents, or employees.

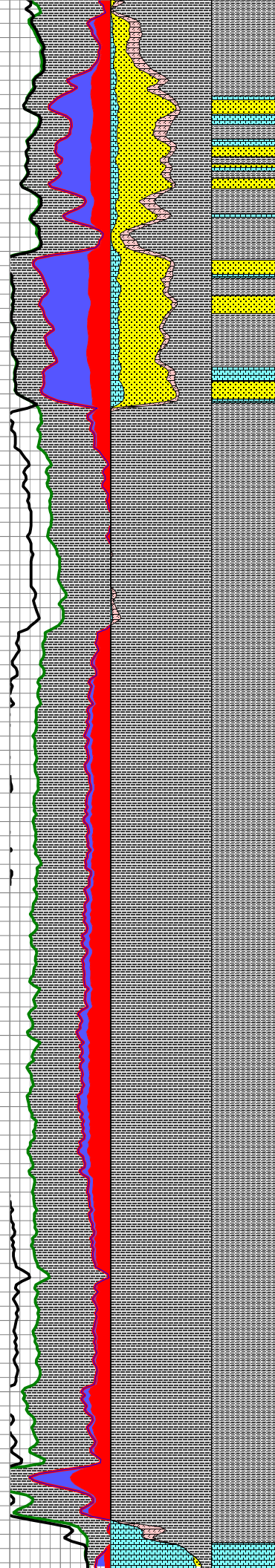
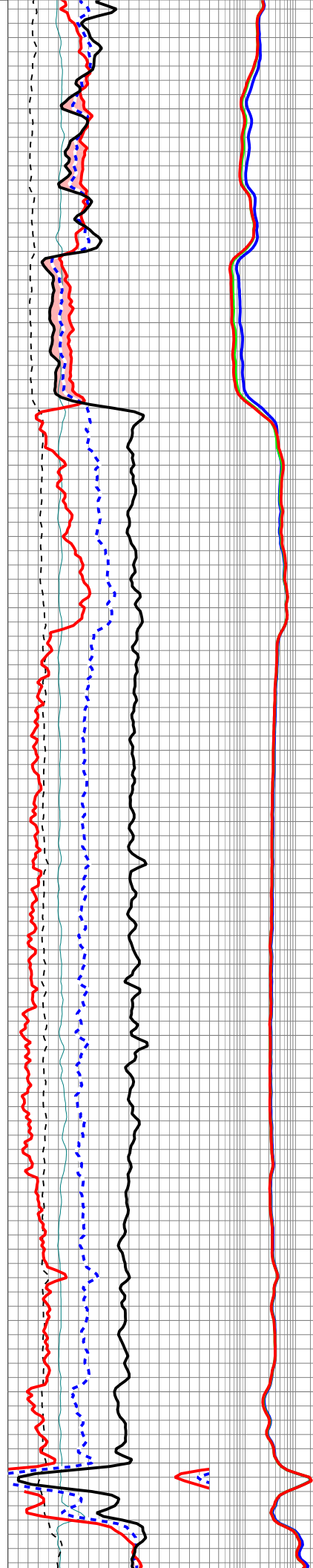
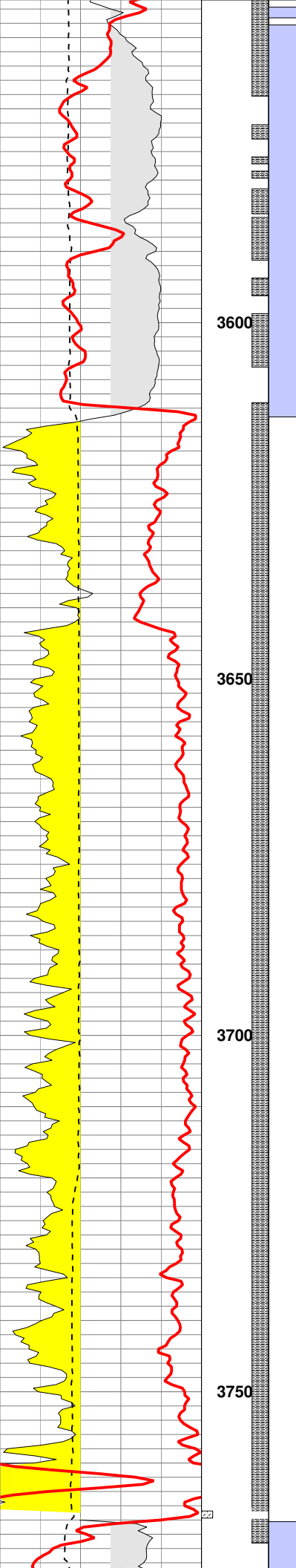
COMPUTATION	LOGS USED: Triple Combo		PROGRAM: PRIZM
	CENTER: OKC	LOG ANALYST: Jack Austin	DATE: 7/18/2012
	REFERENCE NUMBER: []		

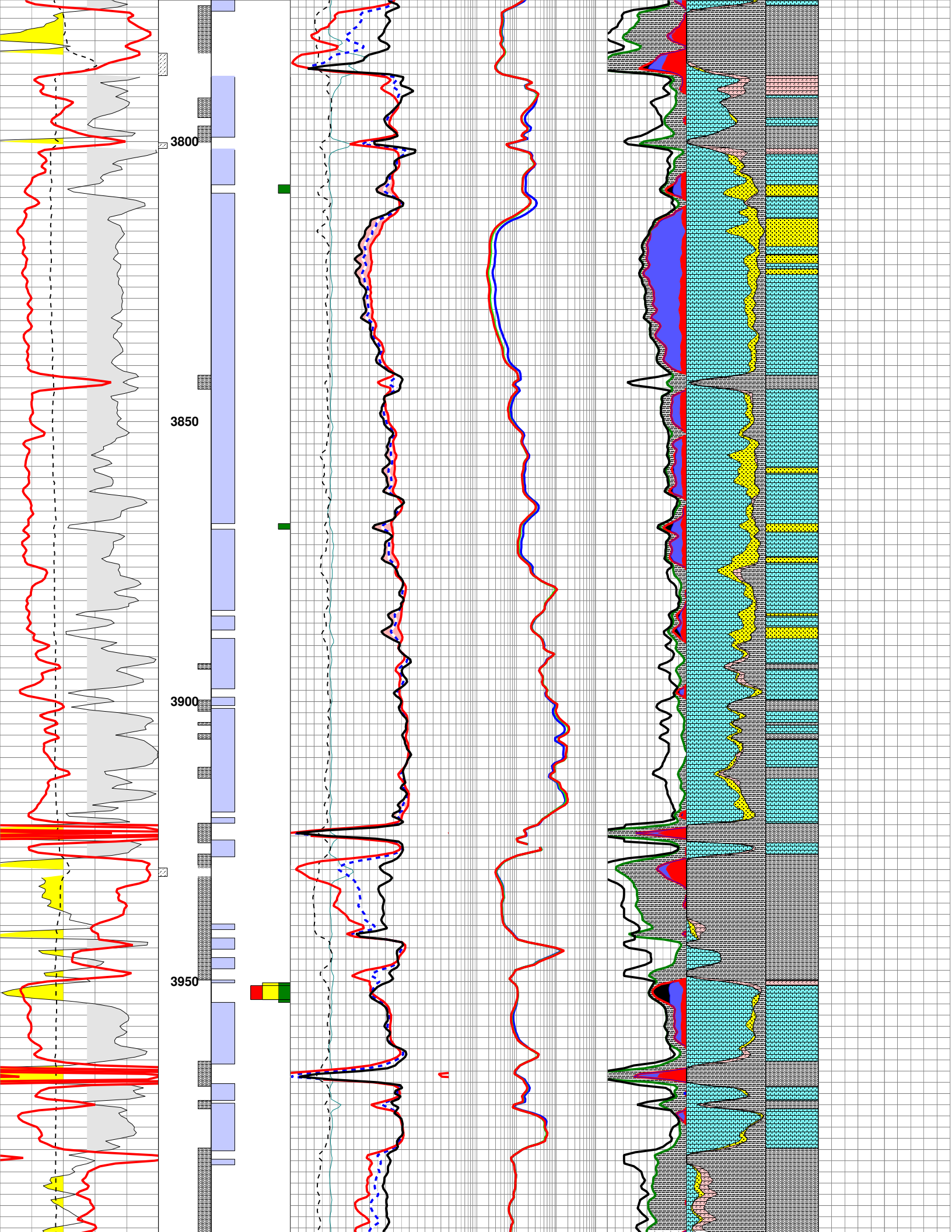
Correlation	Depth	RWA Flags	Open-Hole Porosity	Open-Hole Resistivity	Pore Space	Lithology	INT-LITH	Mudlog Data
CGR(N/A)	MD	>=.075	PHID	ResD(RT)	PHIT	Sandstone	Sandstone	C1(N/A)
0150			0.3-0.10	2.0ohmm 2000.0000	0.20			0.0250
GR	BHF	>=.06	PHIN	ResM(RT60)	PHIA	Limestone	Limestone	C2(N/A)
0150			0.3-0.10	2.0ohmm 2000.0000	0.20			0.0250
GRPO(N/A)	Vshl >.4	>=.045	SXP	ResS(RT20)	BVW	Dolomite	Dolomite	C3(N/A)
0150			0.3-0.10	2.0ohmm 2000.0000	0.20			0.0250
GRTH(N/A)		<.045	PEF(PE)		PHIE	Clay	Shale	C4(N/A)
0150			0.0-20		0.20			0.0250
GRUR(N/A)		Tight Pay	DRHO		BVWb			OIL_CURVE
0150			0.25g/cc 0.75		0.20			0.01
CALI			Crossover		Hydrocarbon			ROP2
5in 15								150

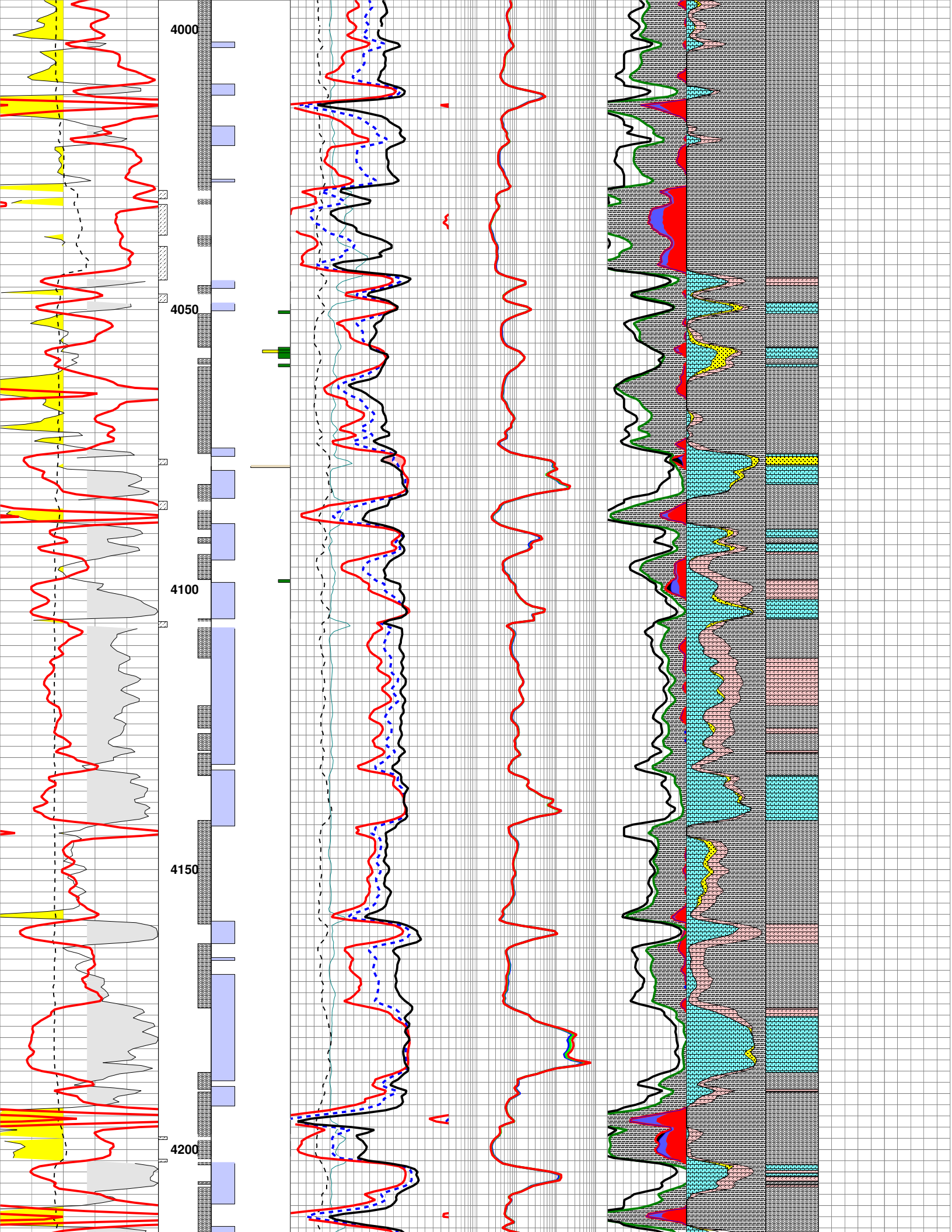


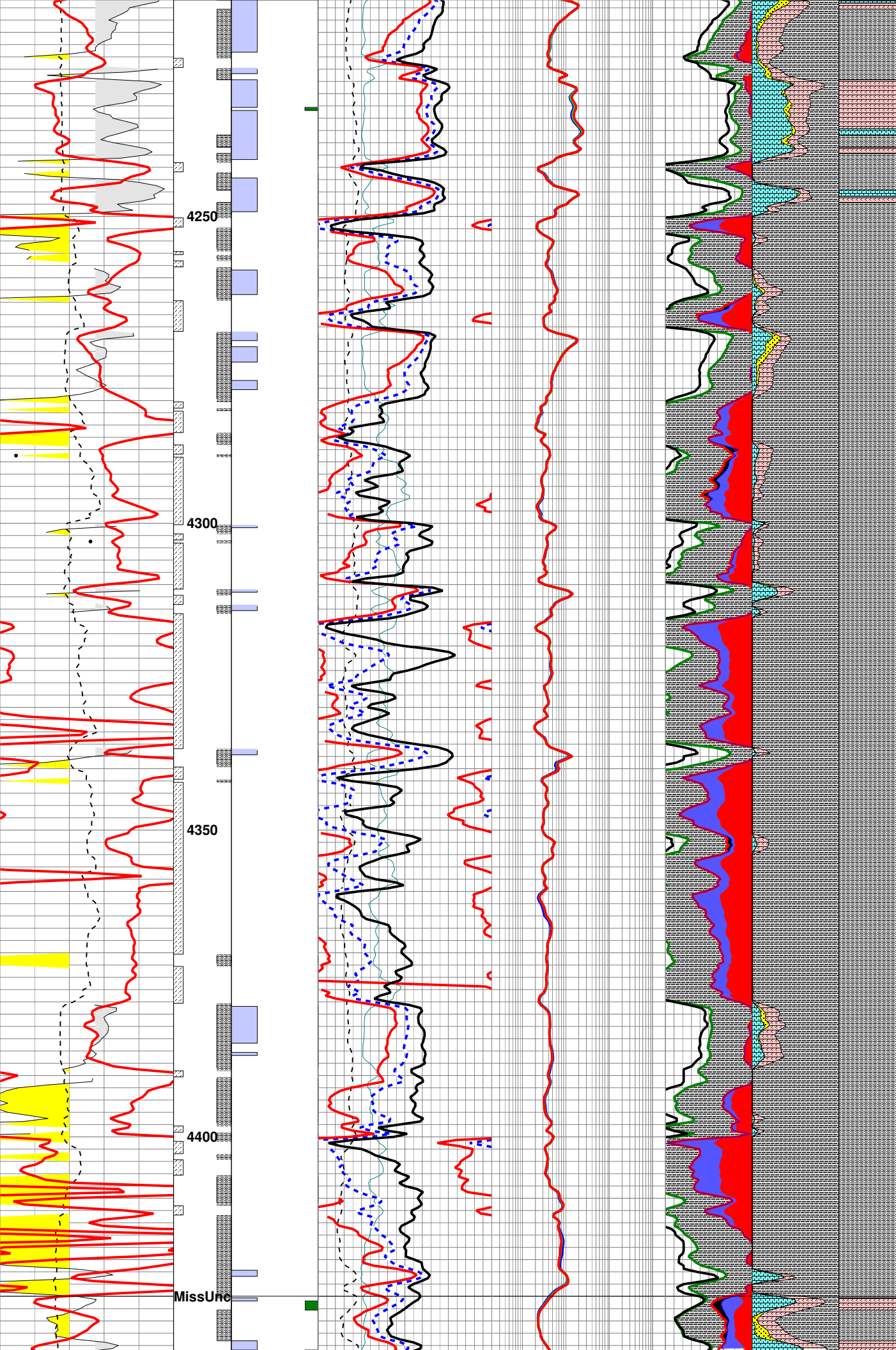


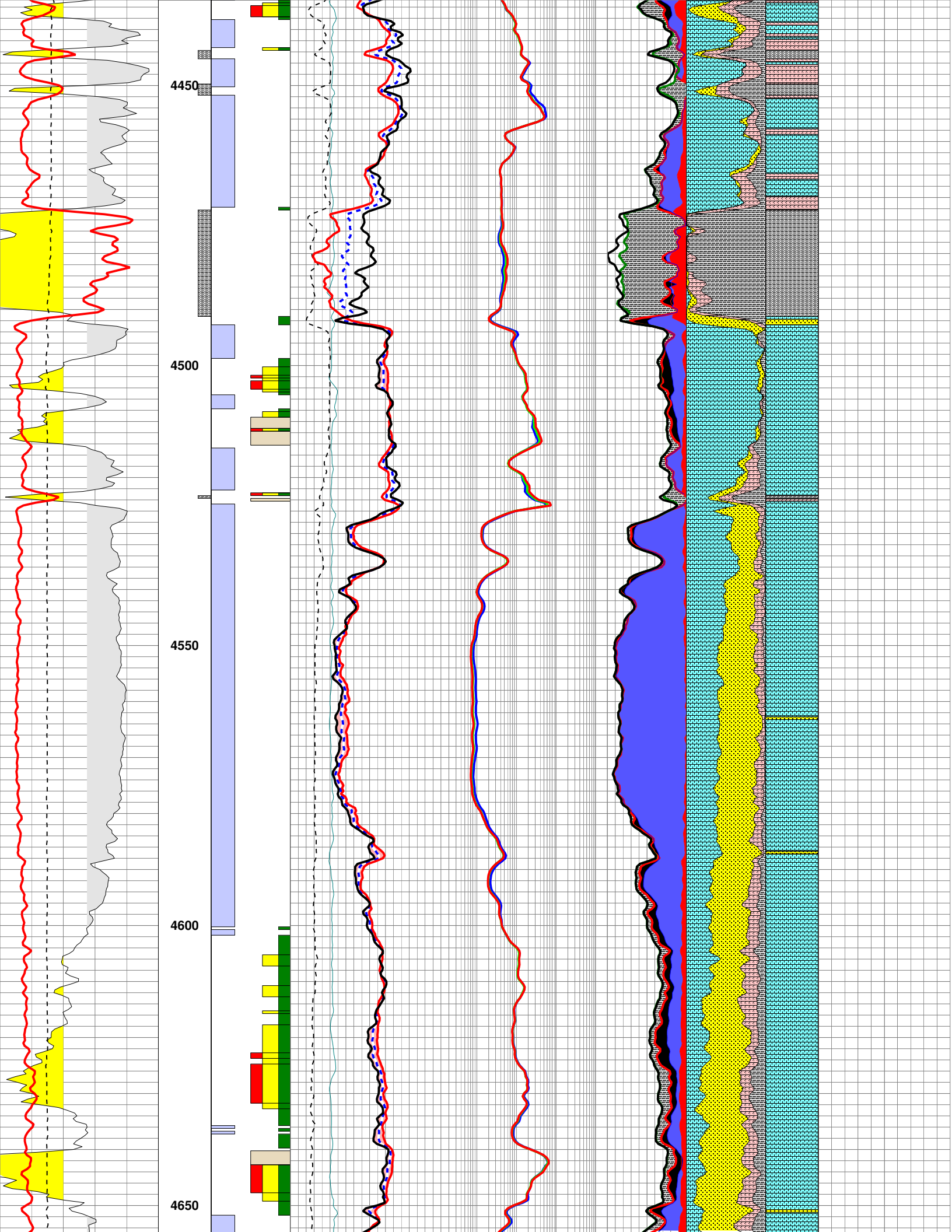


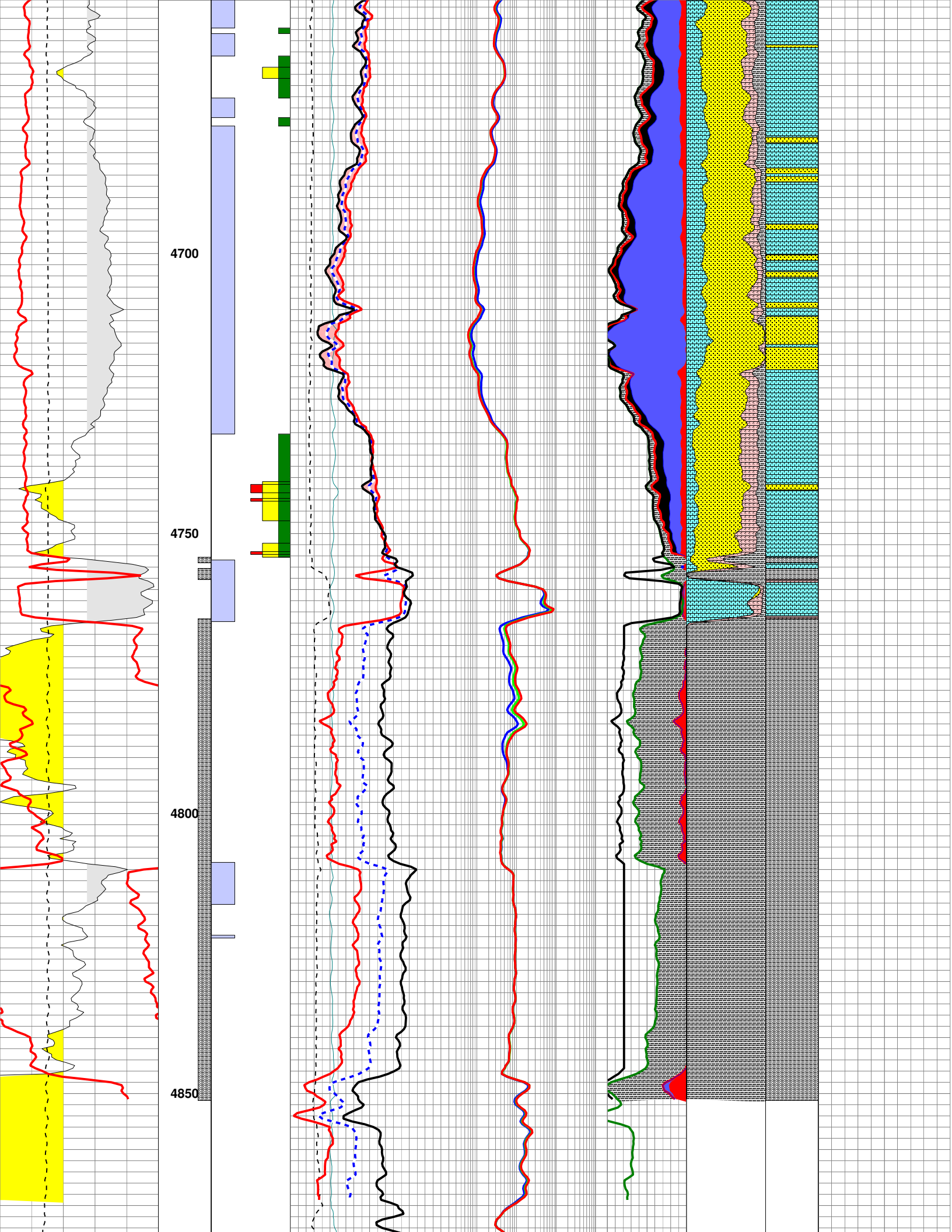


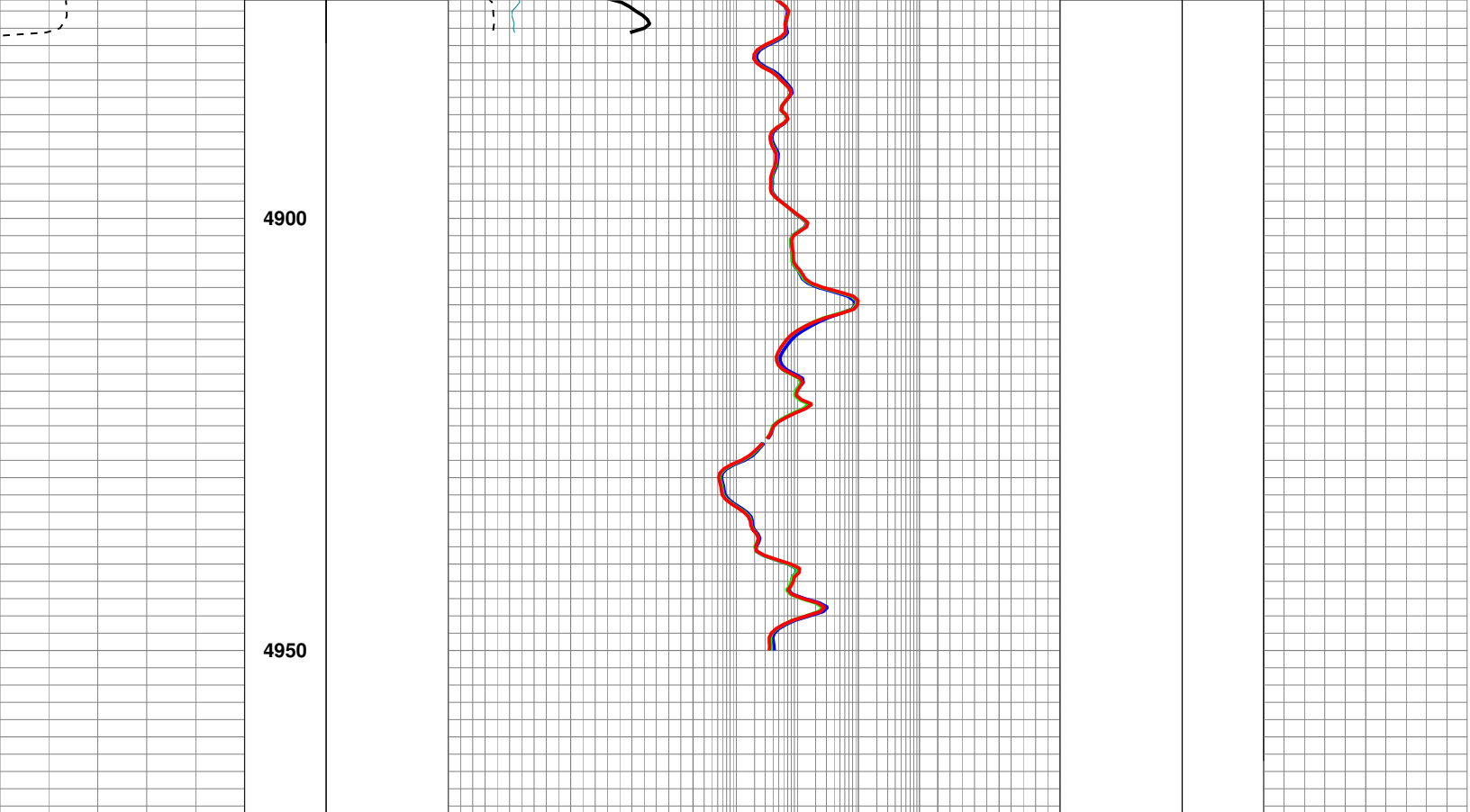












Correlation	Depth	RWA Flags	Open-Hole Porosity		Open-Hole Resistivity		Pore Space	Lithology	INT-LITH	Mudlog Data	
CGR(N/A)	MD	>=.075	PHID		ResD(RT)		PHIT	Sandstone	Sandstone	C1(N/A)	
0 150			0.3 -0.10.2	ohmm 2000.0000	0.2 0	0.0 250					
GR	BHF	>=.06	PHIN		ResM(RT60)		PHIA	Limestone	Limestone	C2(N/A)	
0 150			0.3 -0.10.2	ohmm 2000.0000	0.20 0	0.0 250					
GRPO(N/A)	Vshl >.4	>=.045	SXP		ResS(RT20)		BVW	Dolomite	Dolomite	C3(N/A)	
0 150			0.3 -0.10.2	ohmm 2000.0000	0.2 0	0.0 250					
GRTH(N/A)		<.045	PEF(PE)				PHIE	Clay	Shale	C4(N/A)	
0 150			0.0 20		0.20 0	0.0 250					
GRUR(N/A)		Tight Pay	DRHO				BVWb			OIL_CURVE	
0 150			-0.25 g/cc 0.75		0.2 0	0.0 1					
CALI			Crossover				Hydrocarbon			ROP2	
5 in 15									150 0		
RWA_SXP							lk Volume Wa				
0.1 0.0											
RWA<.045							Clay Water				
RWA>=.06							Bound Water				