

4880 - 8917

CMR

Advisor

Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

Using the following logs:

PEX-HRLA-CMR-HNGS

COMPANY:

Enervest Operating, LLC

WELL:

Sharbro Federal #10

FIELD:

Sand Dunes, Bone Springs

COUNTY:

Lea

State:

New Mexico

COUNTRY:

USA

Date Logged:

15-Sep-2011

Date Processed:

22-Sep-2011

Well Location:

1830' FSL & 1980' FEL
Sec. 7, Rng 32-E.; Abs. T-23-S

Elevations:

KB: 3569.5ft

DF: 3568.5ft

GL: 3554ft

API Number:

30-025-40218

Job Number:

FOLD HERE

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

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 interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

Field Recording:

Location: Abilene, TX

Software Version: 19C0-187

Engineer: Ahmed Attia

Office Recording:

ICS Center: Midland

Baseline: GF4.3

Log Analyst: E Gutierrez

Mud and Borehole Measurements:

Rm @ Measured Temperature: 0.079ohm.m @ 81degF

BHT: 103.3degF

Bitsize: 7.875in

Rmf @ Measured Temperature: 0.05ohm.m @ 81degF

Type Fluid in Hole: Brine

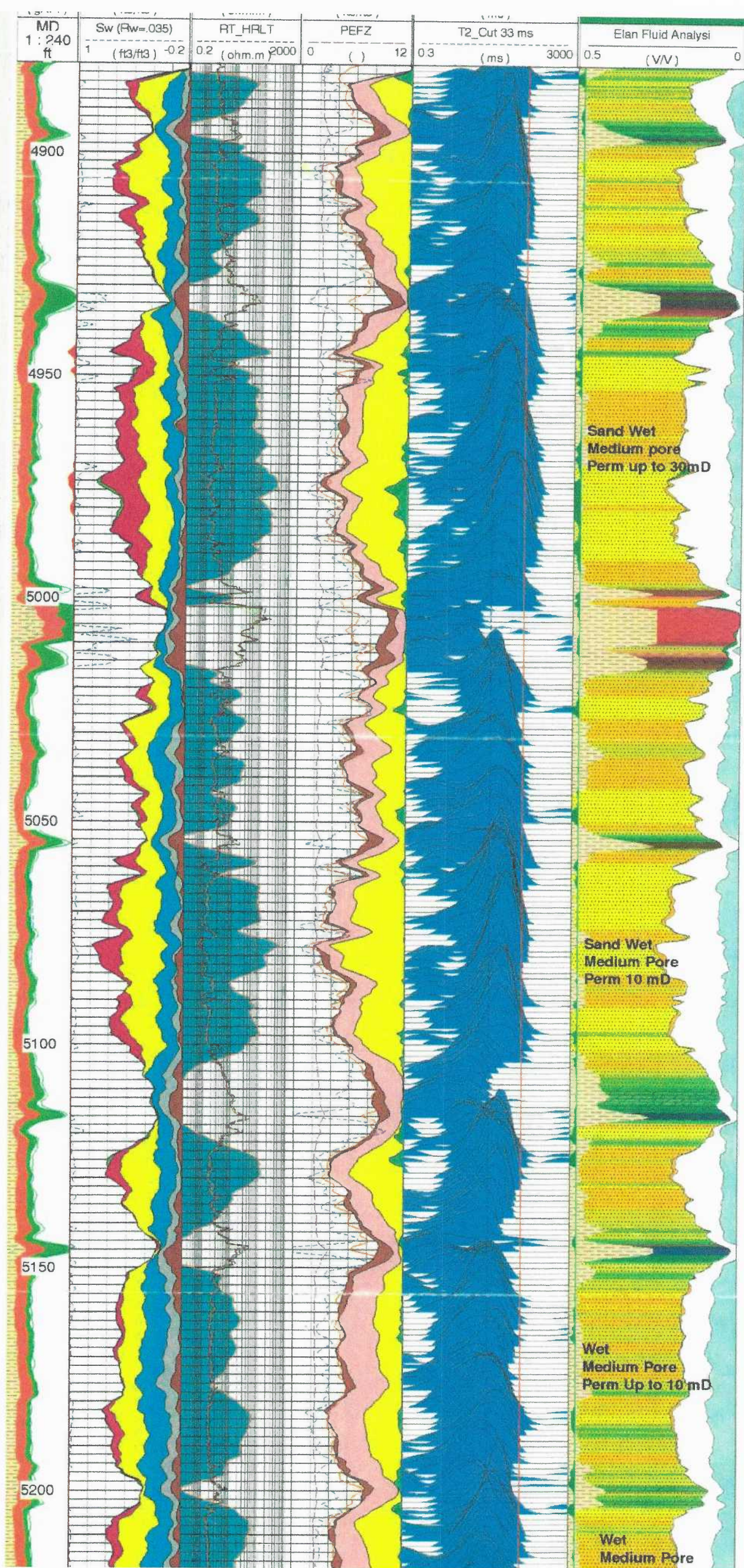
Rmc @ Measured Temperature: @

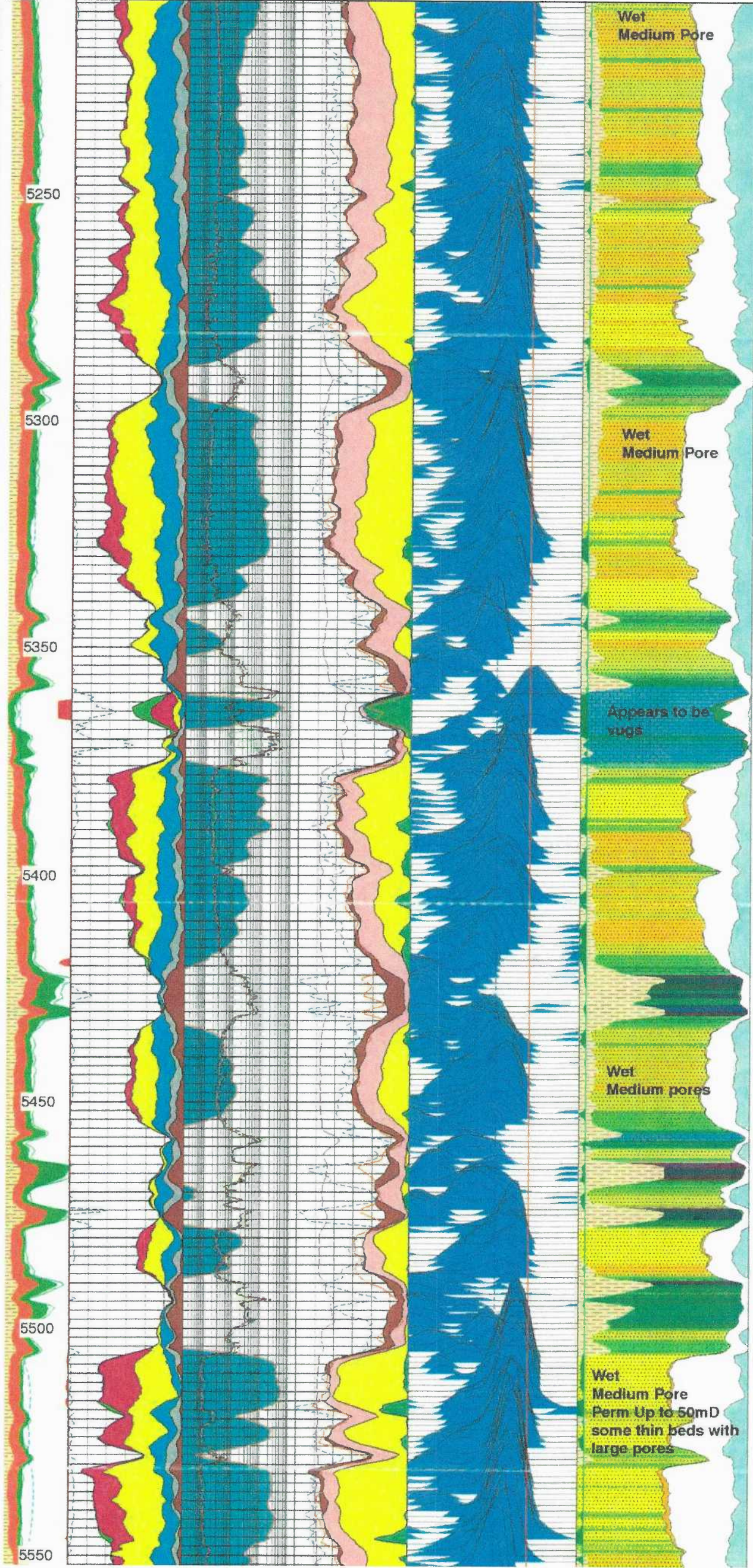
Mud Density: 9.2lbm/gal

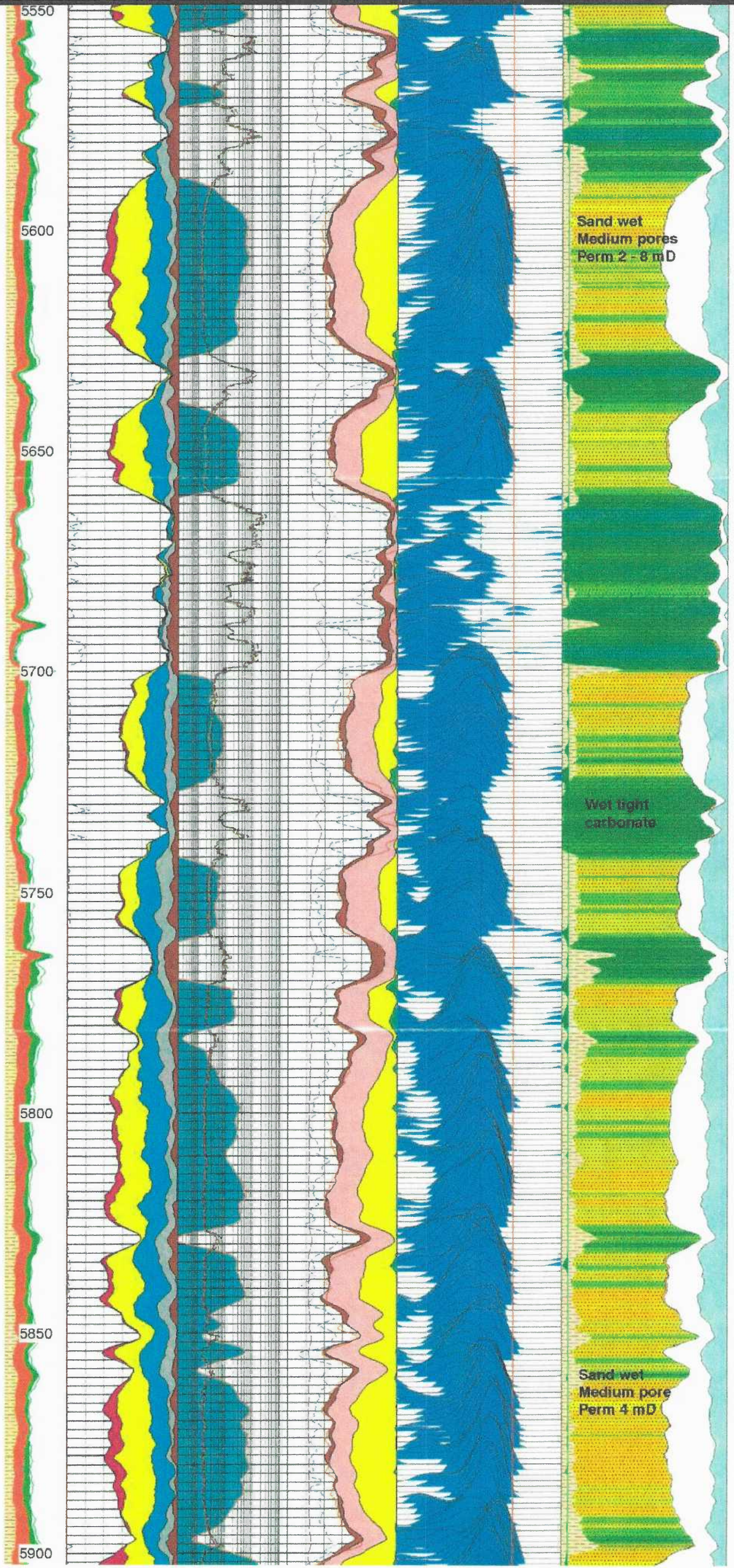
Remarks:

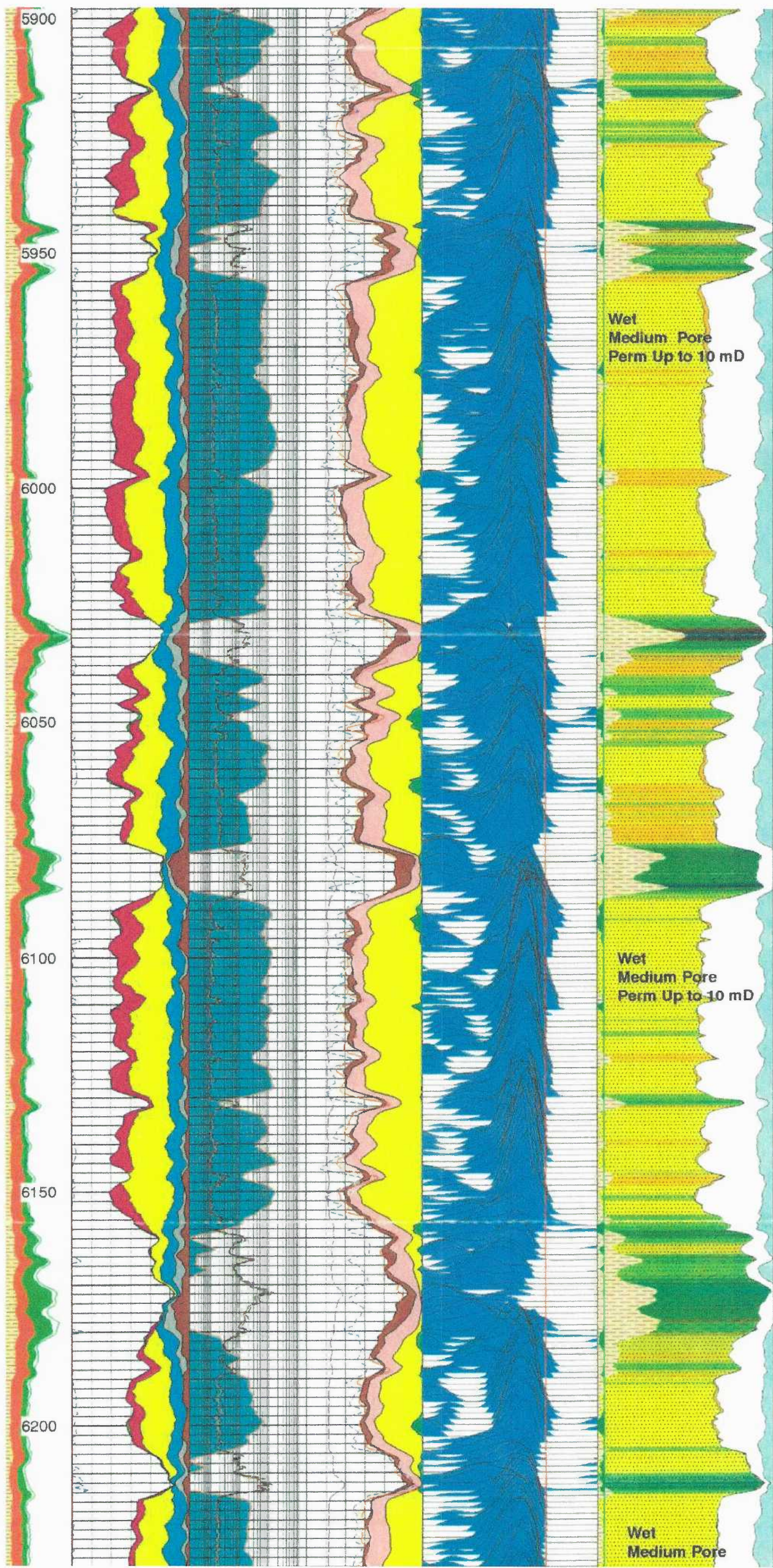
CMR Advisor Delaware Model applied that utilizes T2_DIST > 200 ms
Decay in Sandstones only (T2 Cutoff 33 ms) as >42 API Gravity Oil Shows
Sandstone bins in Advisor 1 2 10 30 100 300 1000 3000

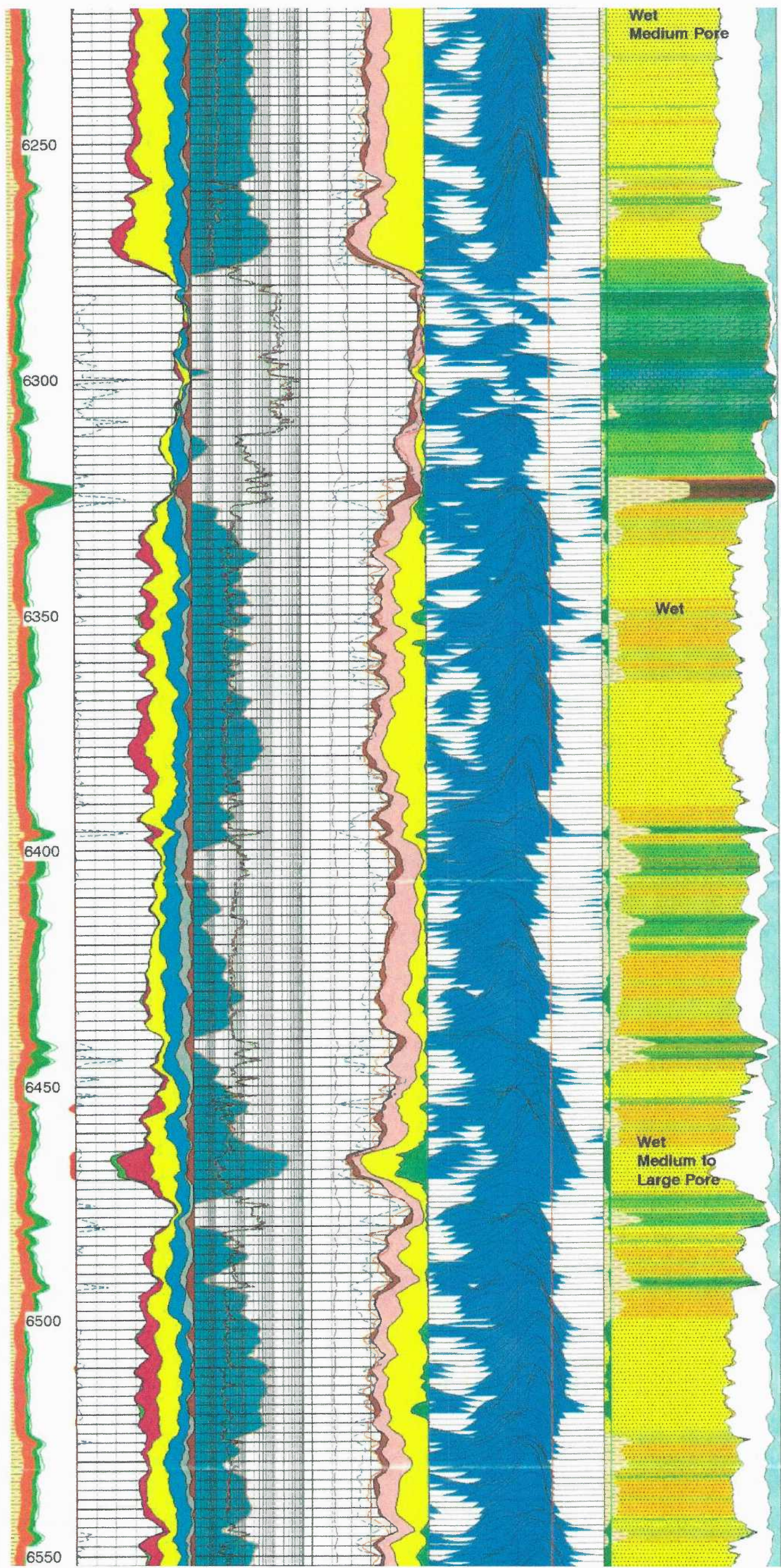
	Large Pores					PEX Lithology
	Medium Pore					VCL_HILT
					0 (ft3/ft3) 2	
						Comments
URAN	Irr. Water		Filtrate			
CGR			Pay Flag			
Q _{gAP150}	Micro Pores					
GR	Clay Bound	Perm	Clay Bound			Vclay
Q _{gAP150}					0 (ft3/ft3) 2	
HCAL	Late Decay	K sdr	Capillary			Shale
6 (in) 16		0.02 (mD) 200				
TGR.HG	TCMR	RLA1	CMFF			> 200 ms flag
0 (1/s) 150	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0			
FLAG N	CBF6	RLA2	CFF4			Moved Water
6 () 1	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0			
Lpore	CBF5	RLA3	CMRP_3MS			Moved Hydrocarbon
	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0			
THOR	CBF4	RLA4	TCMR	T2 Distribution		Irr Water
	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0	() 29		
POTA	CBF3	RLA5	NPHI	T2 Distribution		Water
	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0	() 29		
GR GR@	CBF2	RXOZ	DPHZ	T2 Cutoff > 200 ms		Oil
Q _{gAP150}	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0	0.3 (ms) 3000		
MD 1 : 240 ft	Sw (Rw=.035)	RT_HRLT	PEFZ	T2_Cut 33 ms		Elan Fluid Analysis
	1 (ft3/ft3) -0.2	0.2 (ohm.m) 2000	0 () 12	0.3 (ms) 3000	0.5 (V/V) 0	

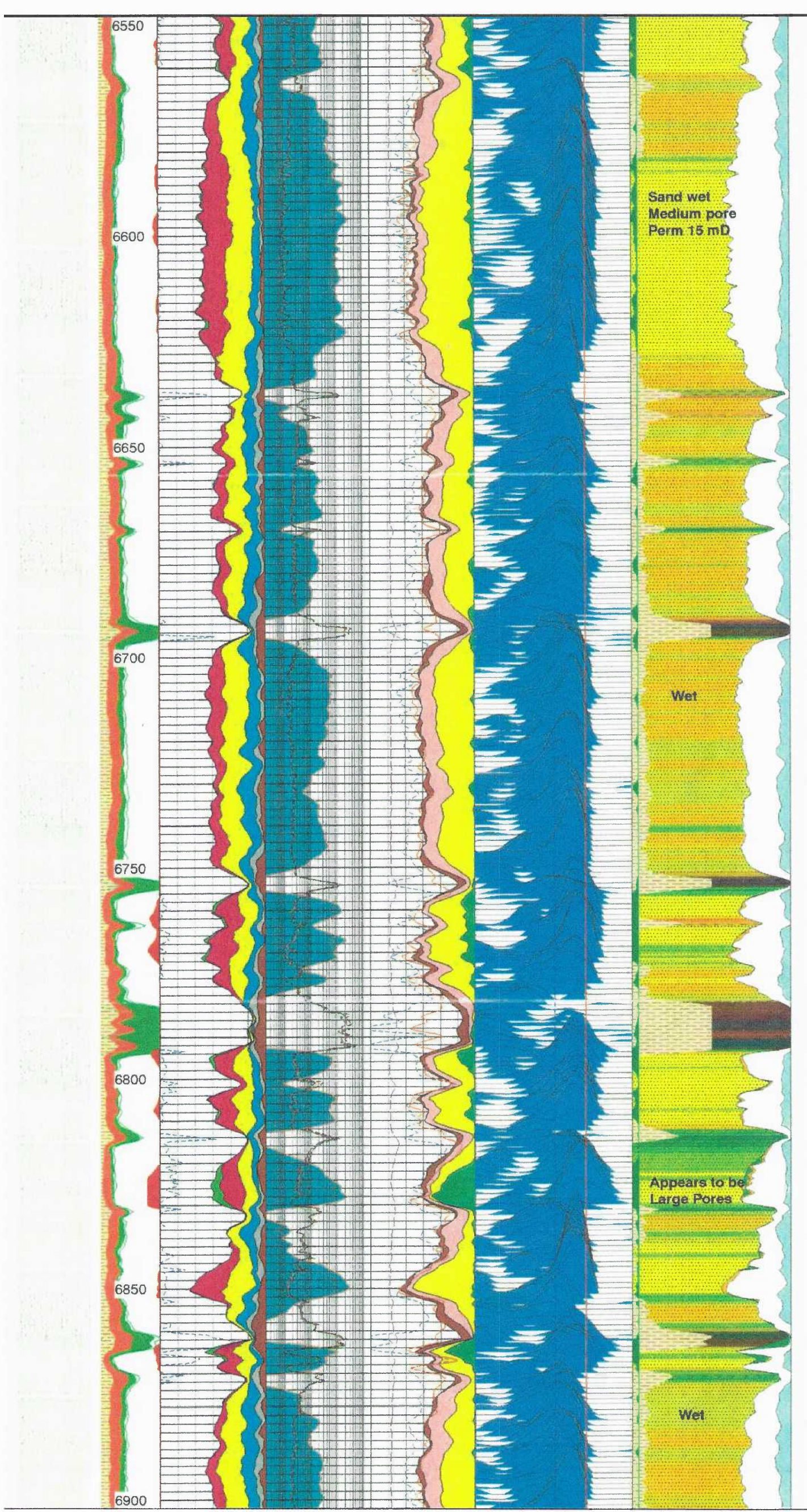


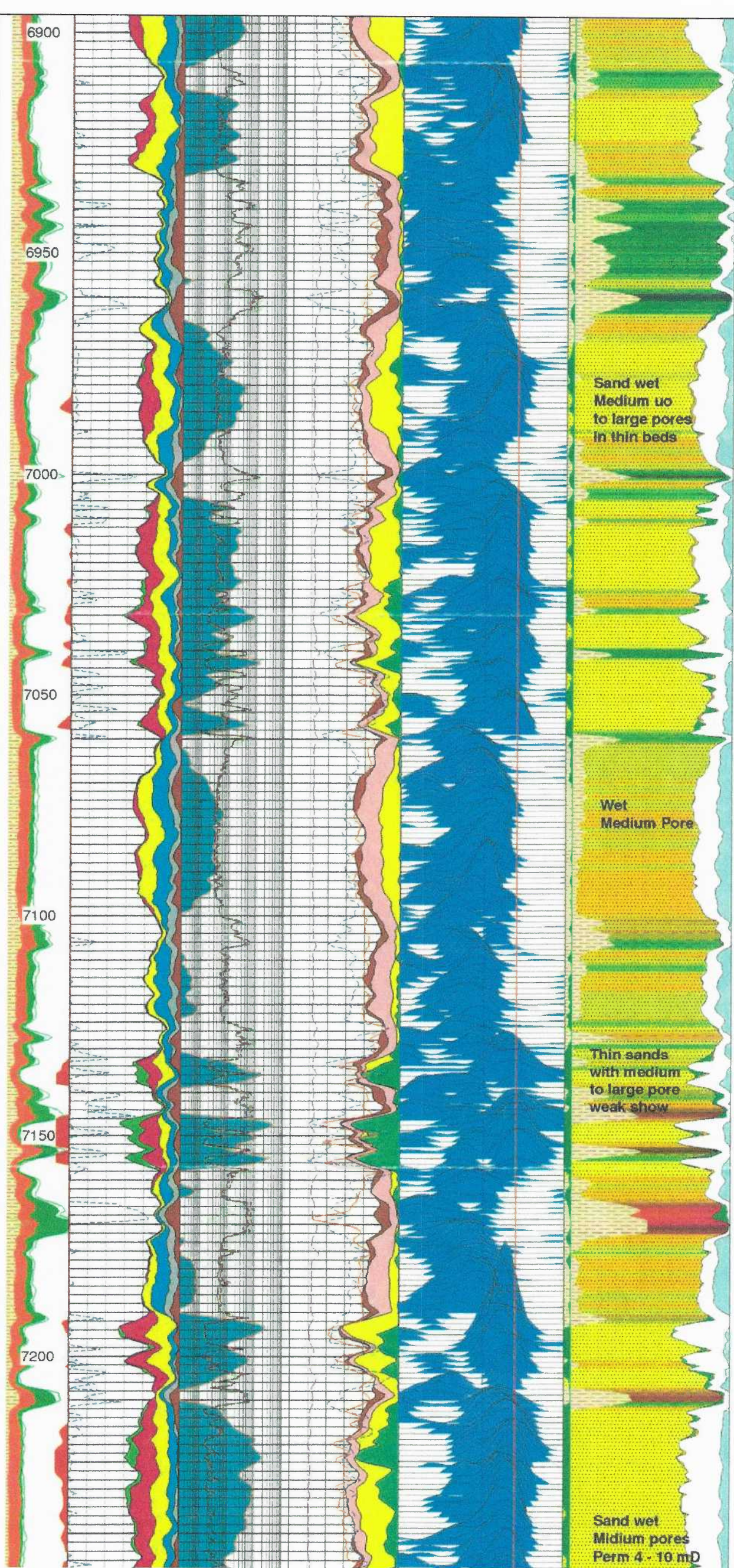


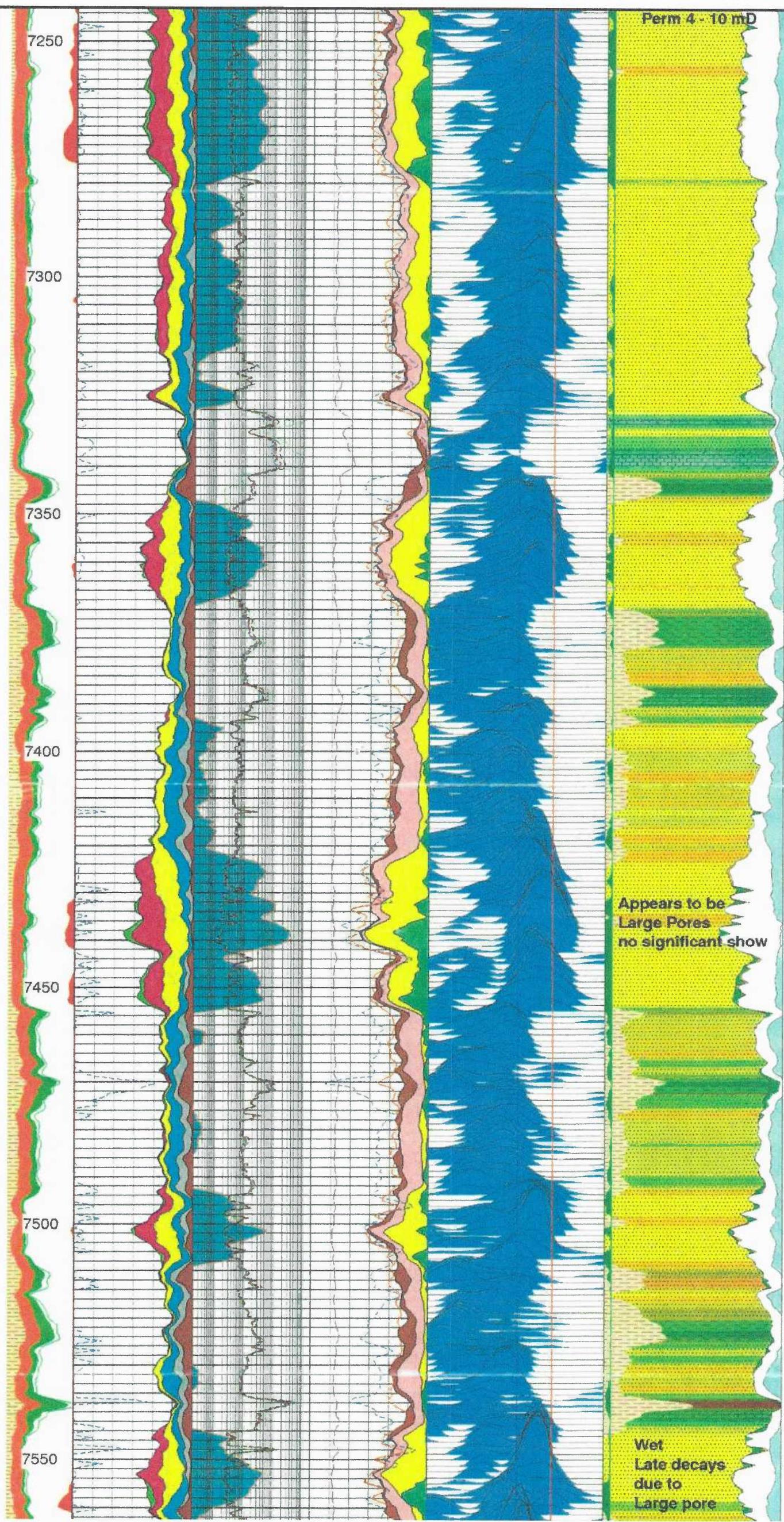








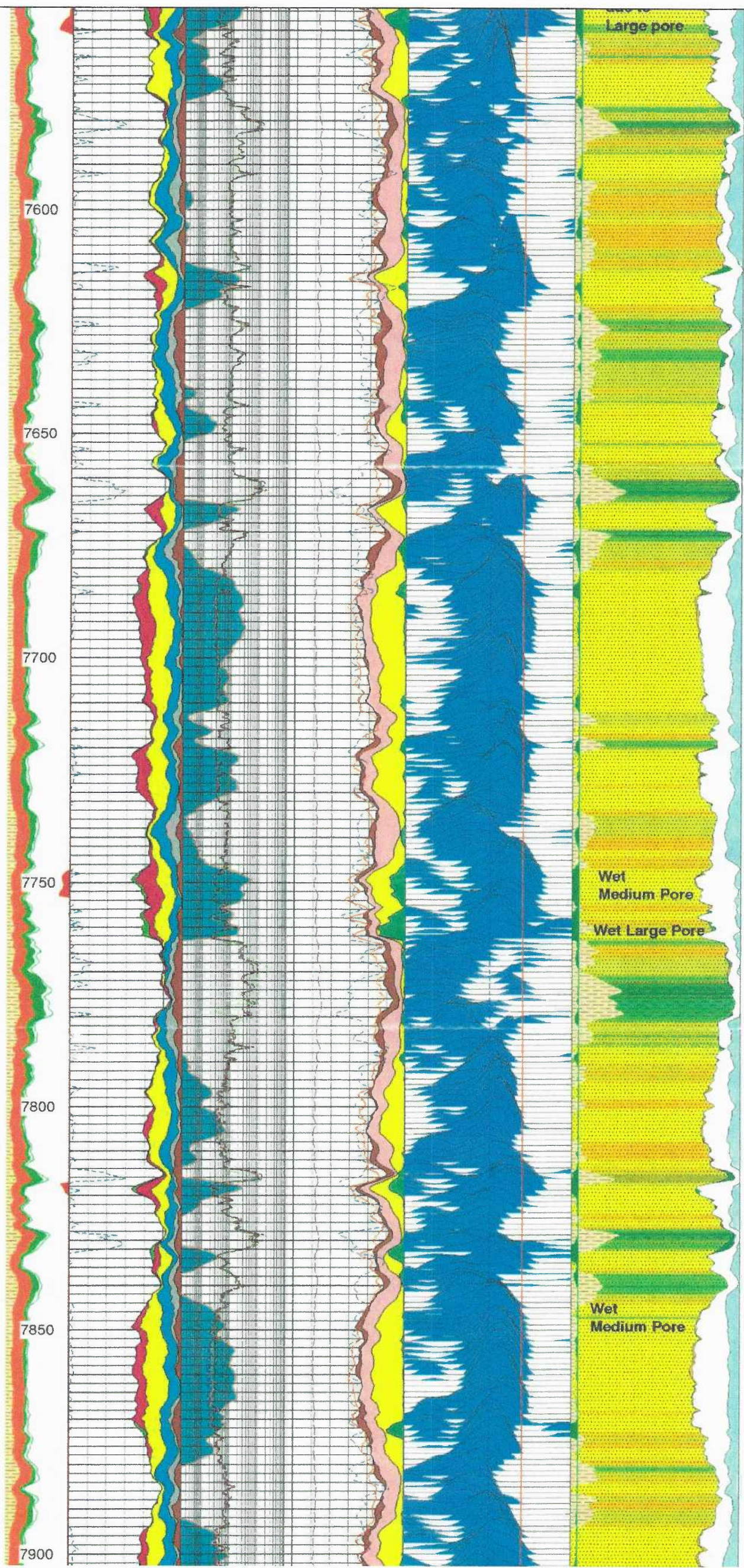


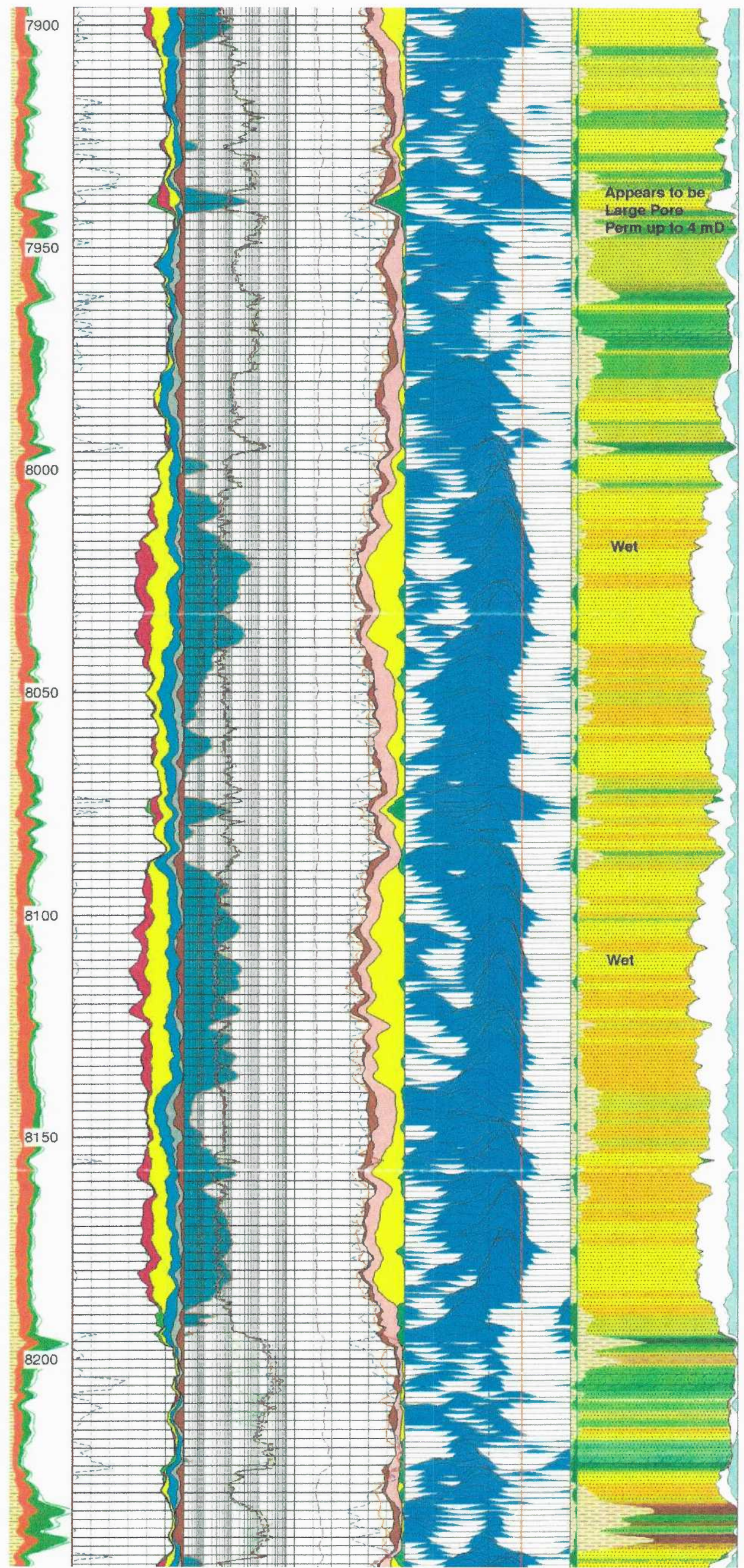


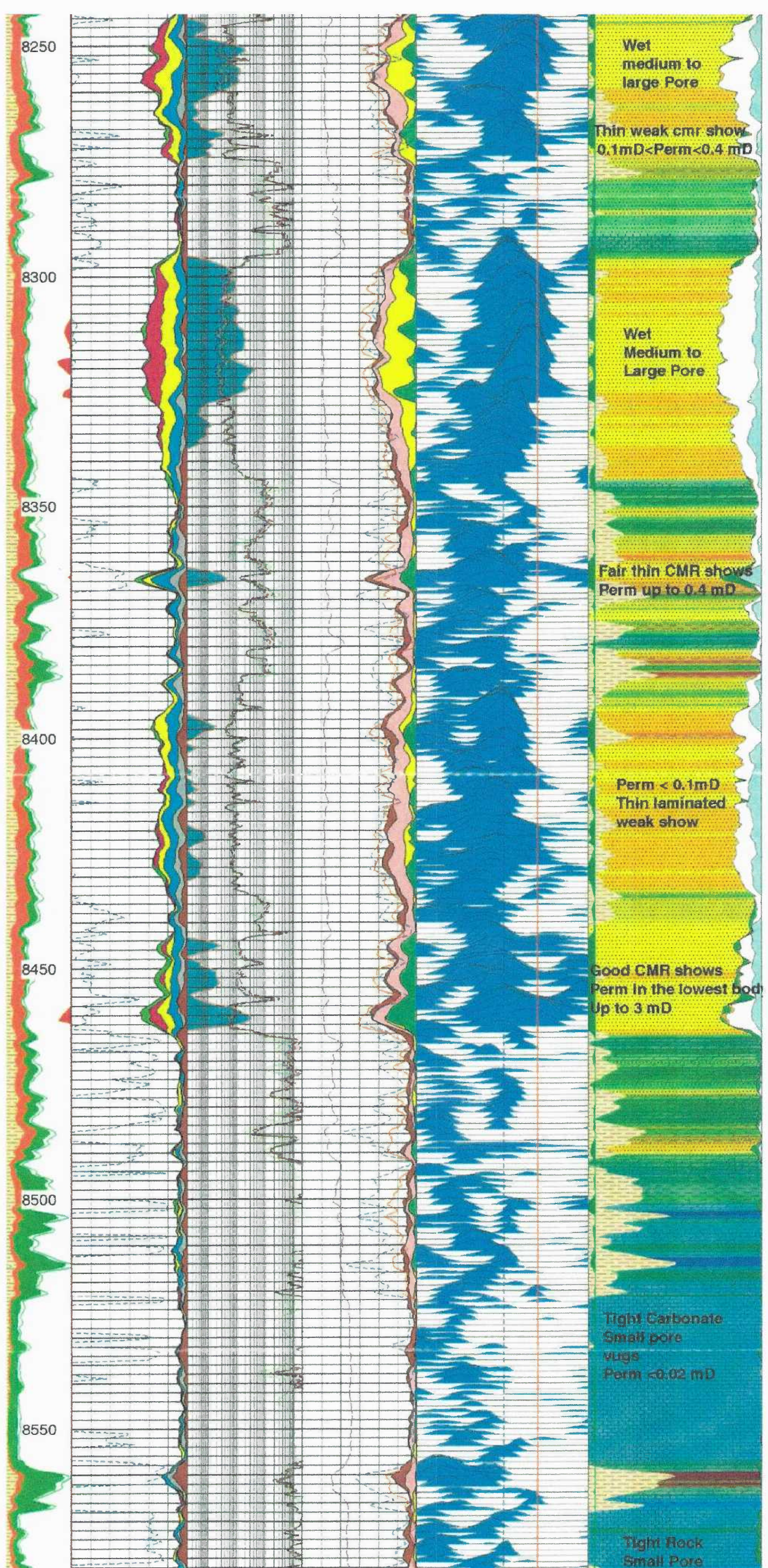
Perm 4 - 10 mD

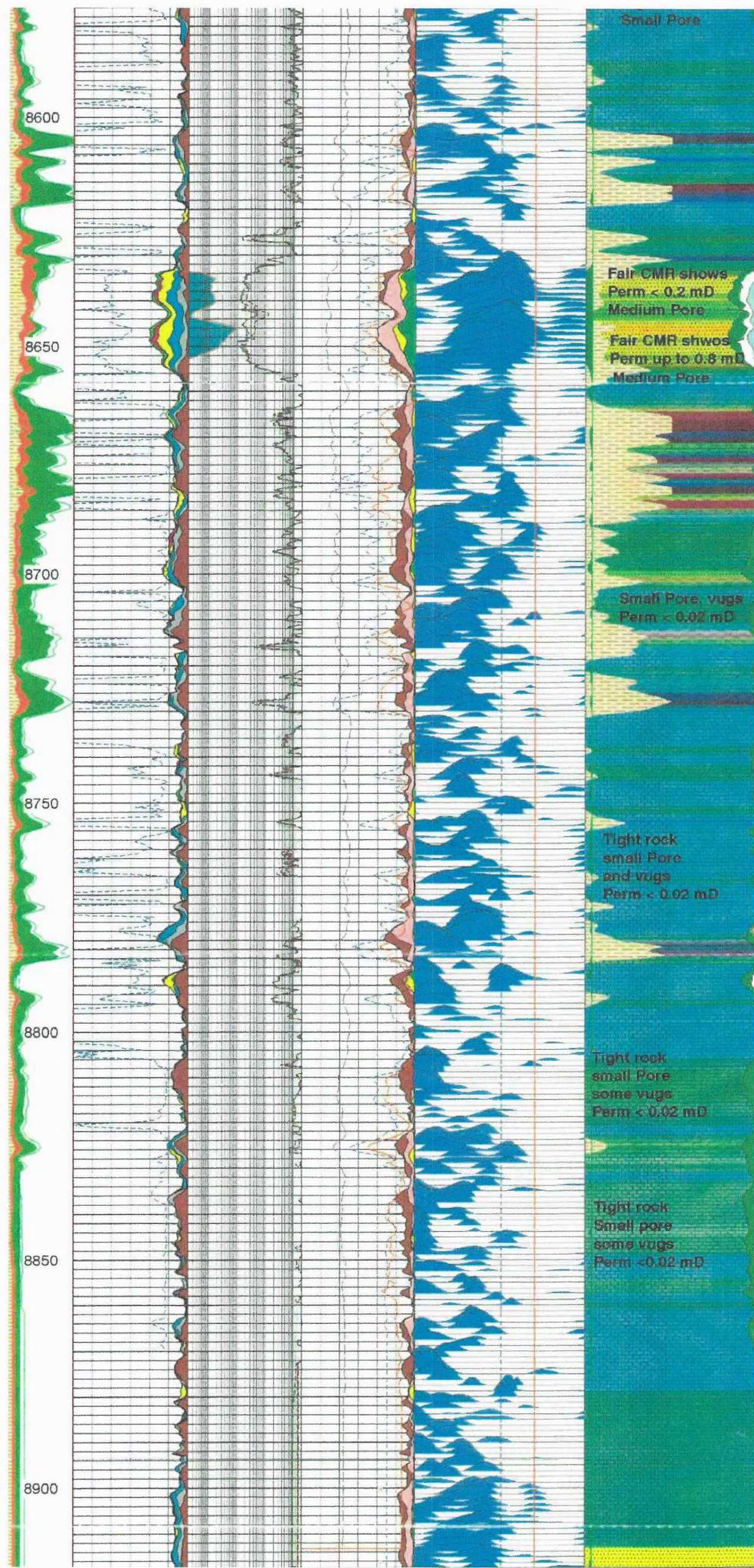
Appears to be
Large Pores
no significant show

Wet
Late decays
due to
Large pore









MD 1 : 240 ft	Sw (Rw=.035) 1 (ft3/ft3) -0.2	RT HRLT 0.2 (ohm.m) 2000	PEFZ 0 () 12	T2 Cut 33 ms 0.3 (ms) 3000	Moved Water
GR GR@	CBF2	FXOZ	DPHZ	T2 Cutoff > 200 ms 0.3 (ms) 3000	Moved Hydrocarbon
Q gA#150	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0		
POTA	CBF3	RLA5	NPHI	T2 Distribution 0 () 29	Irr Water
THOR	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0		
	CBF4	RLA4	TCMR	T2 Distribution 0 () 29	Water
	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0		
Lpore	CBF5	RLA3	CMRP_3MS		Oil
	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0		
FLAG.N	CBF6	RLA2	OFF4		Elan Fluid Analysis
6 () 1	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0		0.5 (V/V) 0
TGR.HG	TCMR	RLA1	CMFF		> 200 ms flag
0 (1/s) 150	0.3 (ft3/ft3) 0	0.2 (ohm.m) 2000	0.3 (ft3/ft3) 0		
HCAL	Late Decay	K sdr	Capillary		Shale
6 (in) 16		0.02 (mD) 200			
GR	Clay Bound	Perm	Clay Bound		Vclay
Q gA#150					0 (ft3/ft3) 2
CGR	Micro Pores		Pay Flag		
Q gA#150					
URAN	Irr. Water		Filtrate		Comments
	Medium Pore				PEX Lithology
	Large Pores				VCL_HLT
					0 (ft3/ft3) 2

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