PIONEER

Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company	EnCana Oil & Gas (USA) Inc.		
Well	Liberty 2D-21H		
Field	Wattenberg		
County	Weld		
State	Colorado	Country	USA

Company EnCana Oil & Gas (USA) Inc.
Well Liberty 2D-21H
Field Wattenberg
County Weld
State Colorado Country USA

Location: API # : 05-123-36204-0000
1235' FNL & 2381' FWL
NENW
SEC 21 TWP 3N RGE 68W

Other Services
None

Permanent Datum	GL	Elevation	5023
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5036
D.F. 5035
G.L. 5023

Date	January 28, 2014		
Run Number	1		
Depth Driller	11440		
Depth Logger	7356		
Bottom Logged Interval	7356		
Top Log Interval	0		
Open Hole Size	8-3/4"		
Type Fluid	Drilling Mud		
Density / Viscosity	10.4 / 37		
Max. Recorded Temp.	NA		
Estimated Cement Top	340		
Time Well Ready	0430		
Time Logger on Bottom	0540		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Clint Christensen		
Witnessed By	Mark Schulz		

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7"	26 lbs	0	7406'
Liner				

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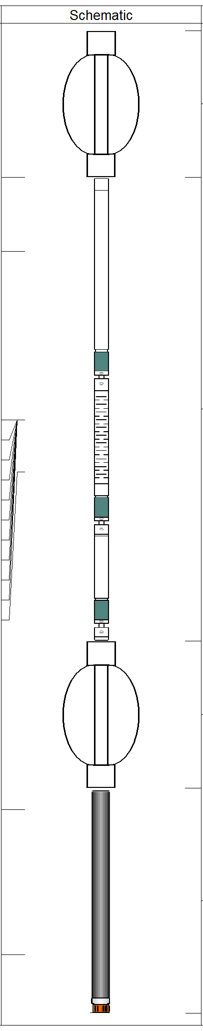
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

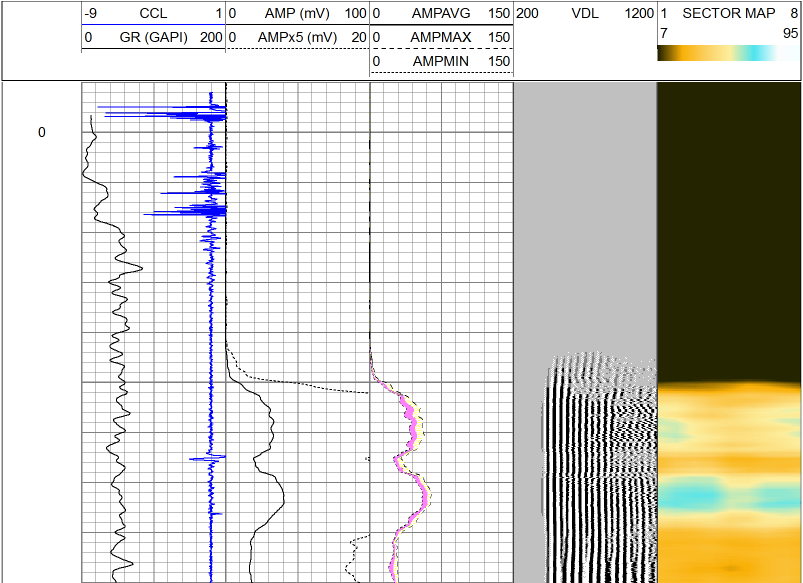
Thank You for using Pioneer Energy Services
Ensign Drilling Rig 135

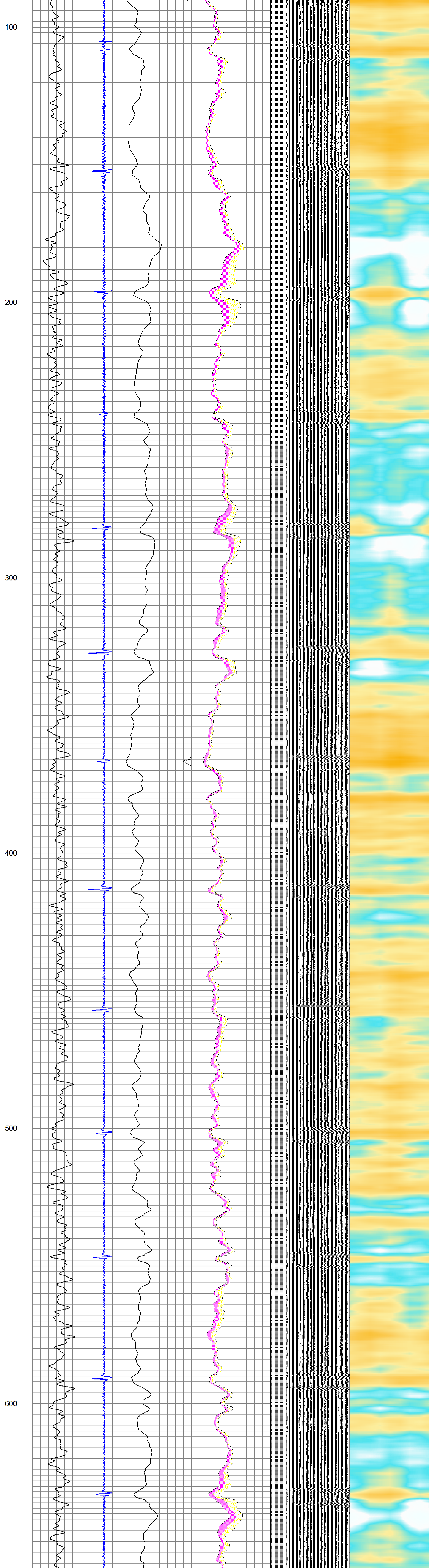


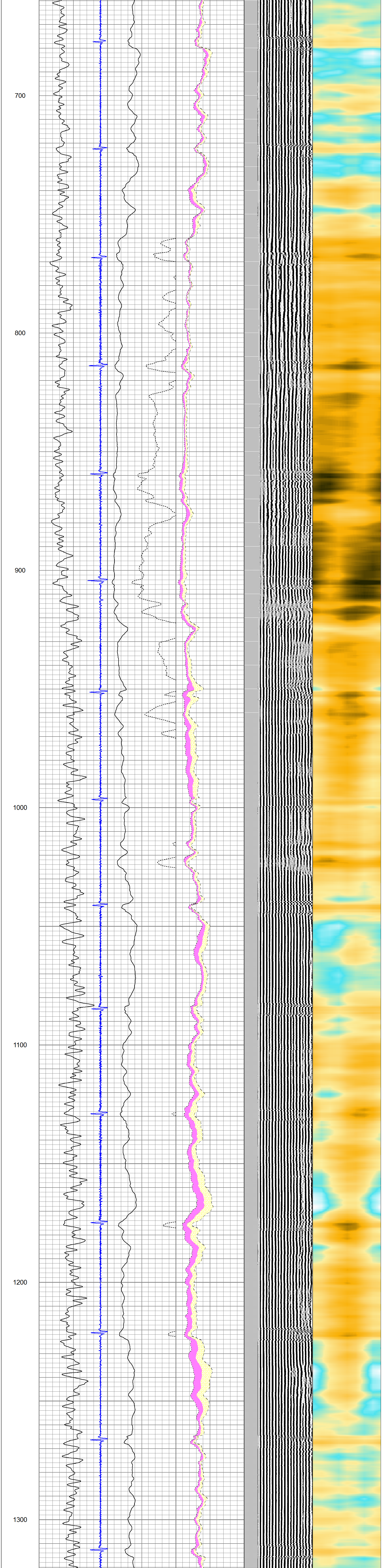
Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT #2 -A (1)	2.83	2.75	20.00
HEADVOLT	16.08				
IntTemp	14.66				
WVF3FT	11.41	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.41				
WVFS1	11.41				
WVFS2	11.41				
WVFS3	11.41				
WVFS4	11.41				
WVFS5	11.41				
WVFS6	11.41				
WVFS7	11.41				
WVFS8	11.41				
WVF5FT	10.41				
		CENT-A (1)	2.83	2.75	20.00
CCL	3.92				
		GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13				

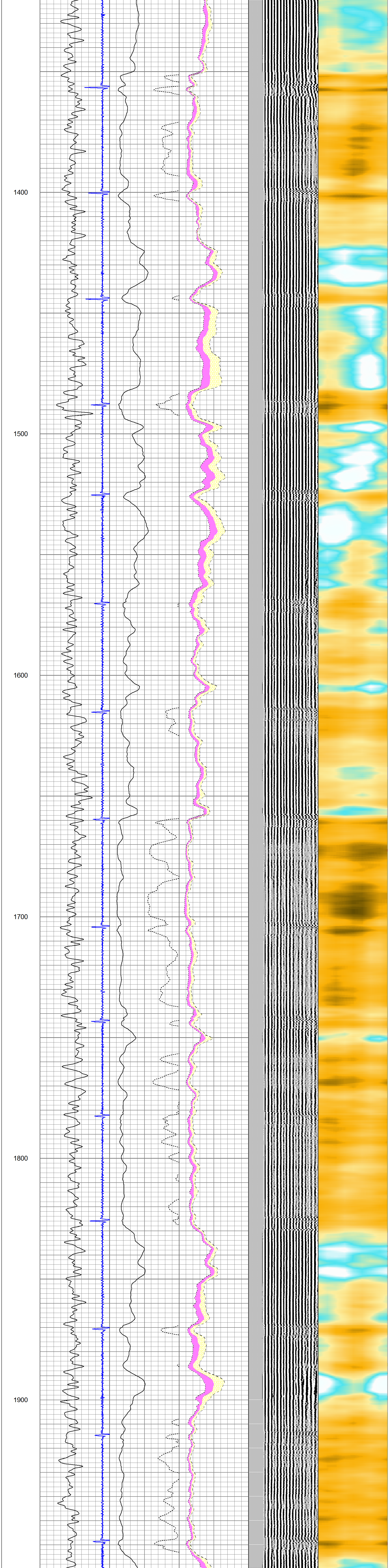
Dataset: 13422.db: field/well/run1/pass2.1
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

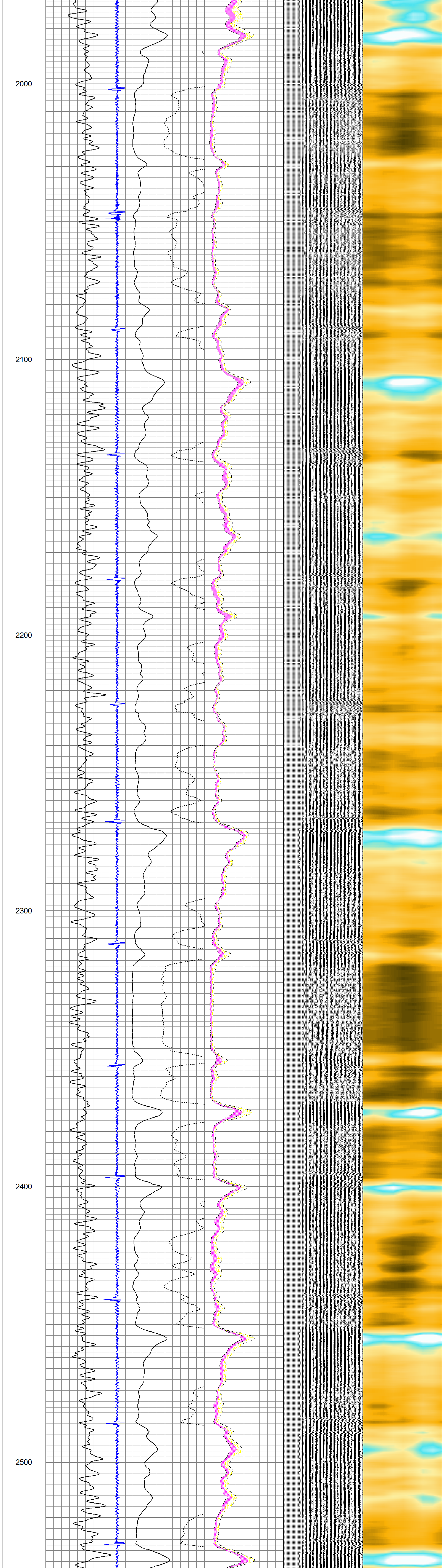
Database File: 13422.db
Dataset Pathname: pass2.1
Presentation Format: scbl02
Dataset Creation: Tue Jan 28 07:07:26 2014 by Calc 0
Charted by: Depth in Feet scaled 1:240

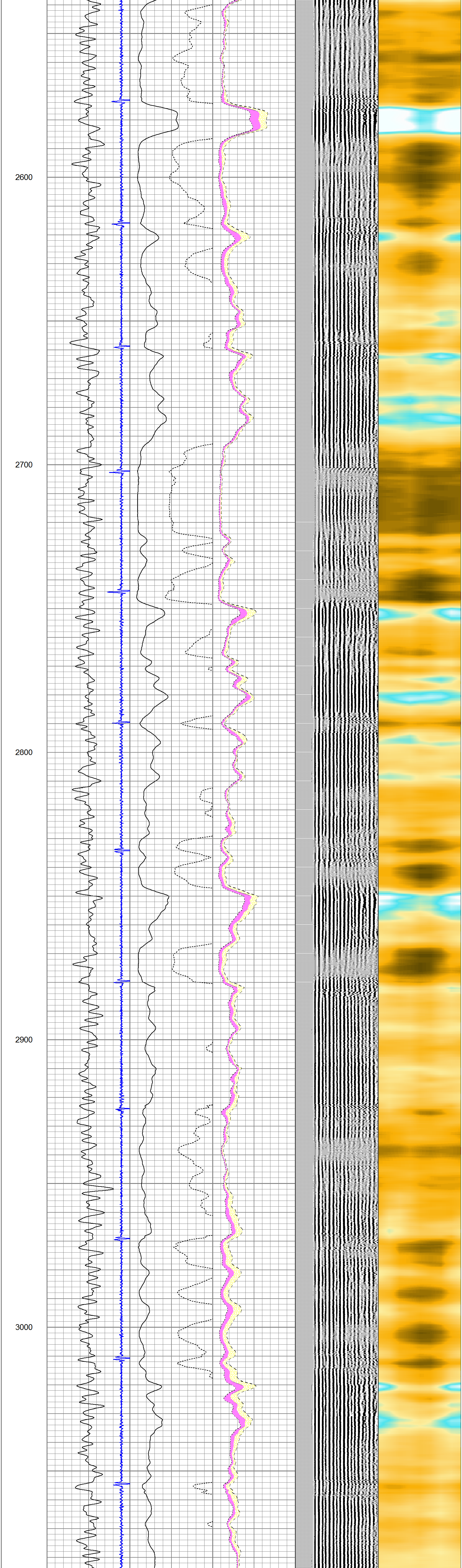


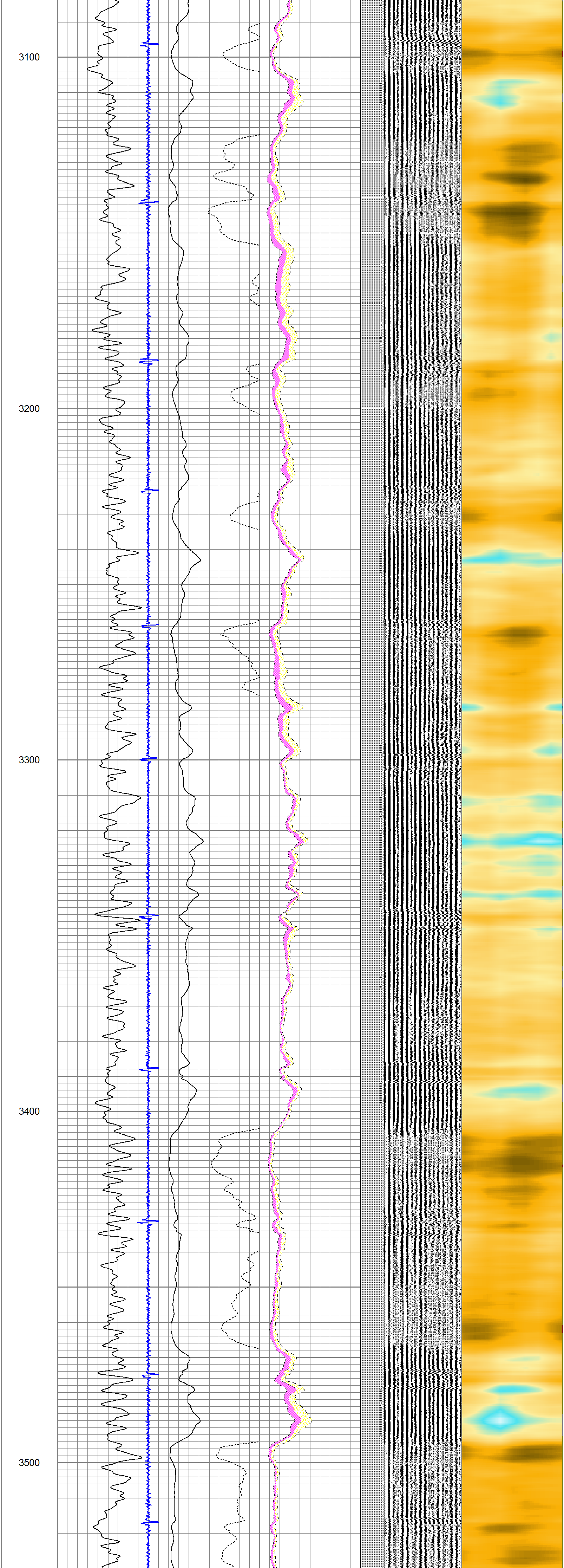


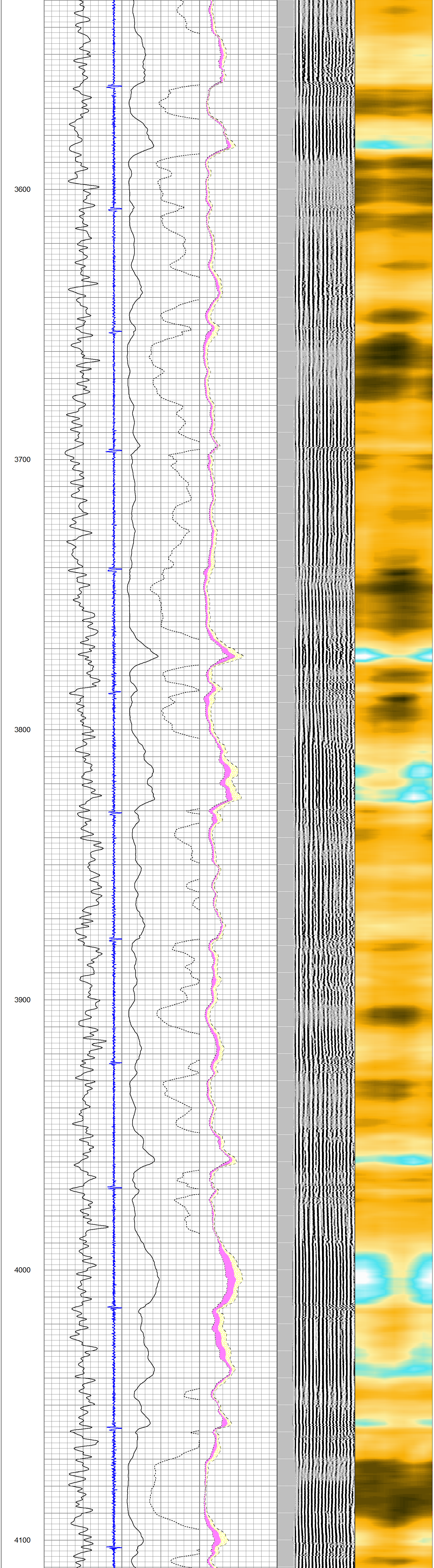








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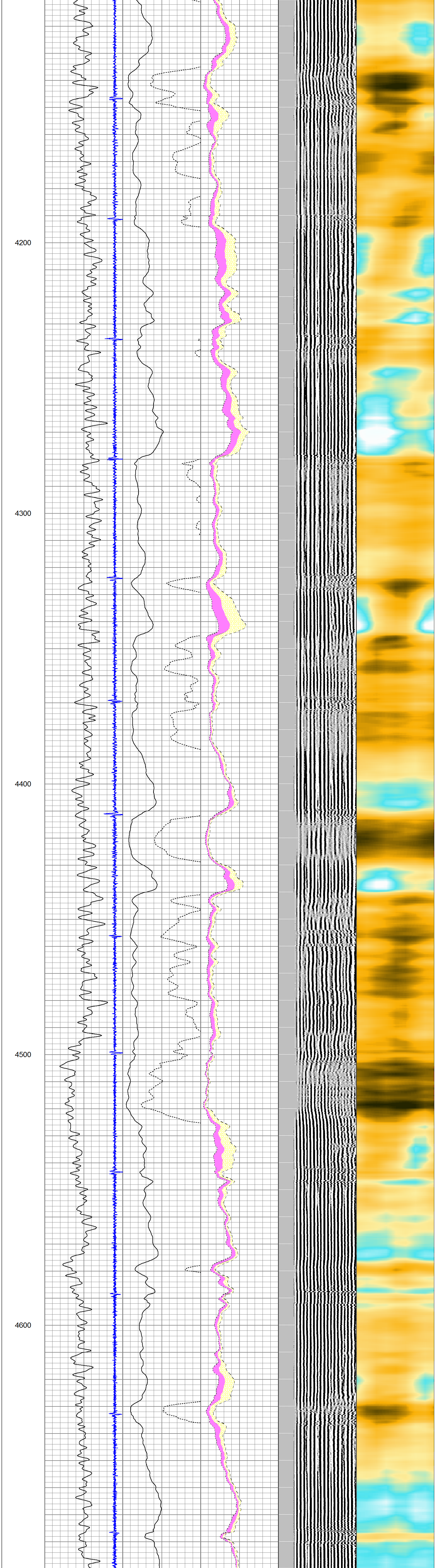
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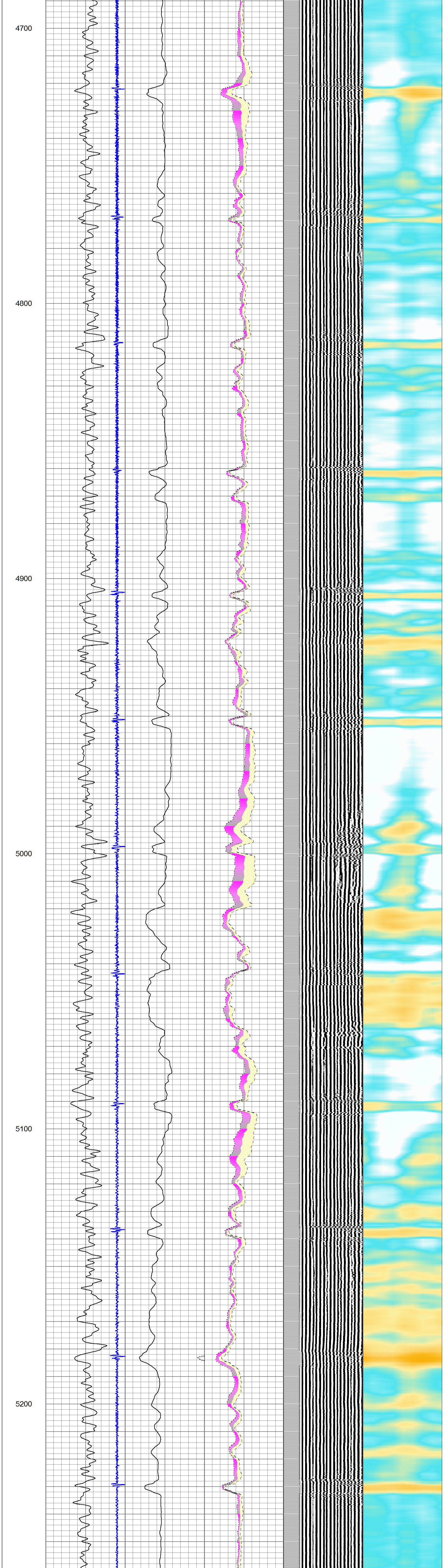
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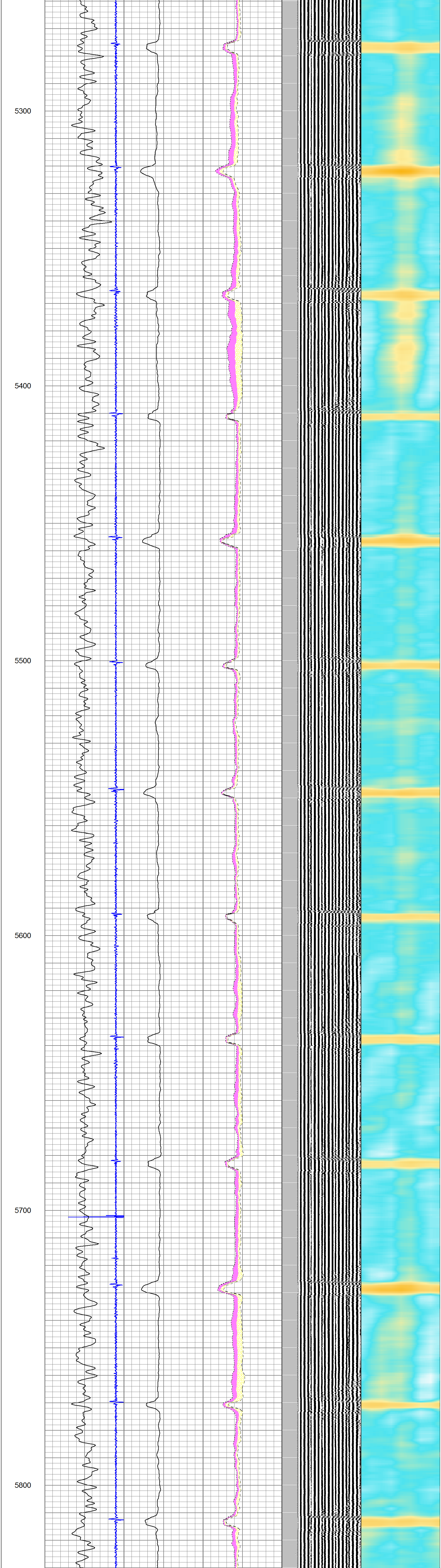

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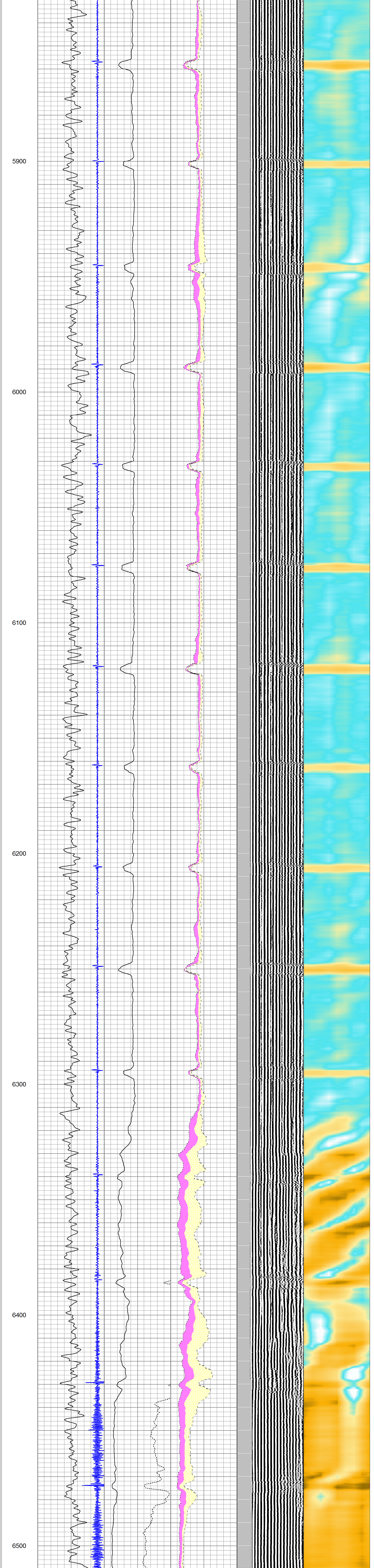
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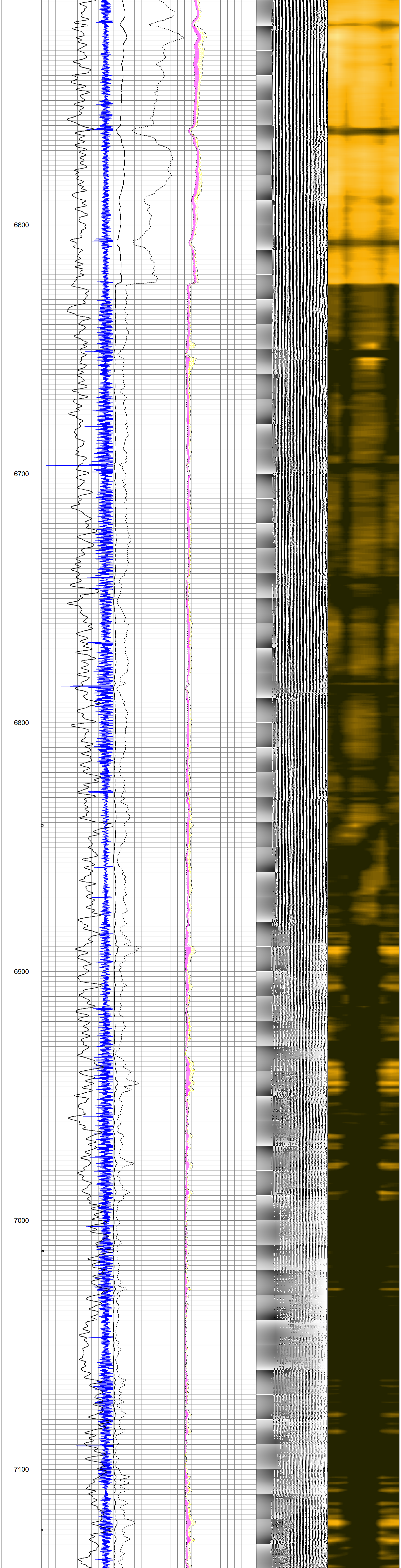
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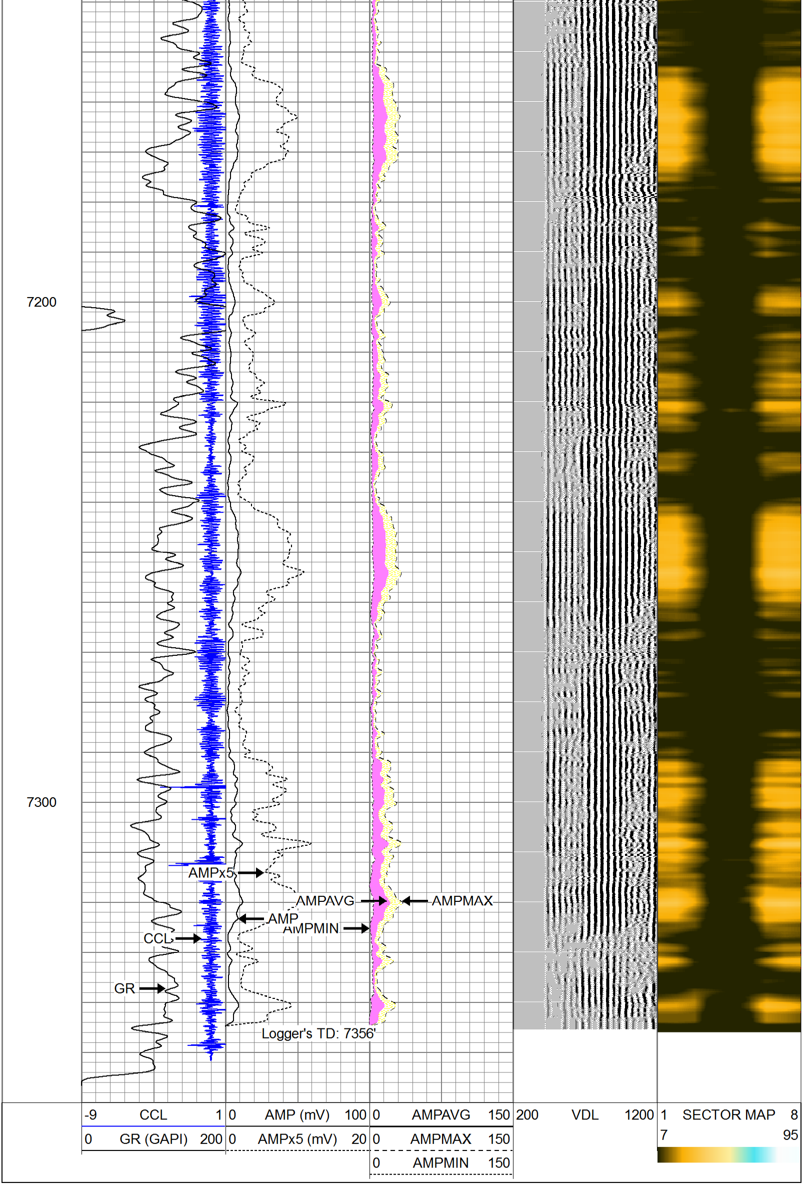
7200
7300
AMPx5
AMPAVG
AMPMAX
AMP
AMPMIN
CCL
GR
Logger's TD: 7356'
-9 CCL 1
0 GR (GAPI) 200
0 AMP (mV) 100
0 AMPx5 (mV) 20
0 AMPAVG 150
0 AMPMAX 150
0 AMPMIN 150
200 VDL 1200
1 SECTOR MAP 8
7 95