Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

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

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

Location: API # : 05123362020000
1245' FNL & 2380' 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. 5036
G.L. 5023

Date	January 20, 2014
Run Number	1
Depth Driller	11784
Depth Logger	7377
Bottom Logged Interval	7375
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	Drilling Mud
Density / Viscosity	10.4 / 36
Max. Recorded Temp.	NA
Estimated Cement Top	710'
Time Well Ready	0345
Time Logger on Bottom	0430
Equipment Number	50
Location	Brighton, CO
Recorded By	Matt Gill
Witnessed By	Dennis Zarosky

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	7462
Liner				

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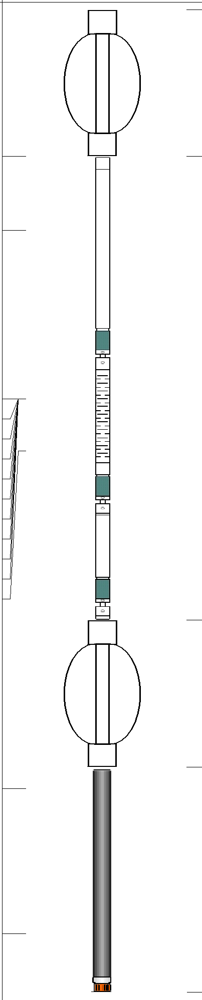
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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

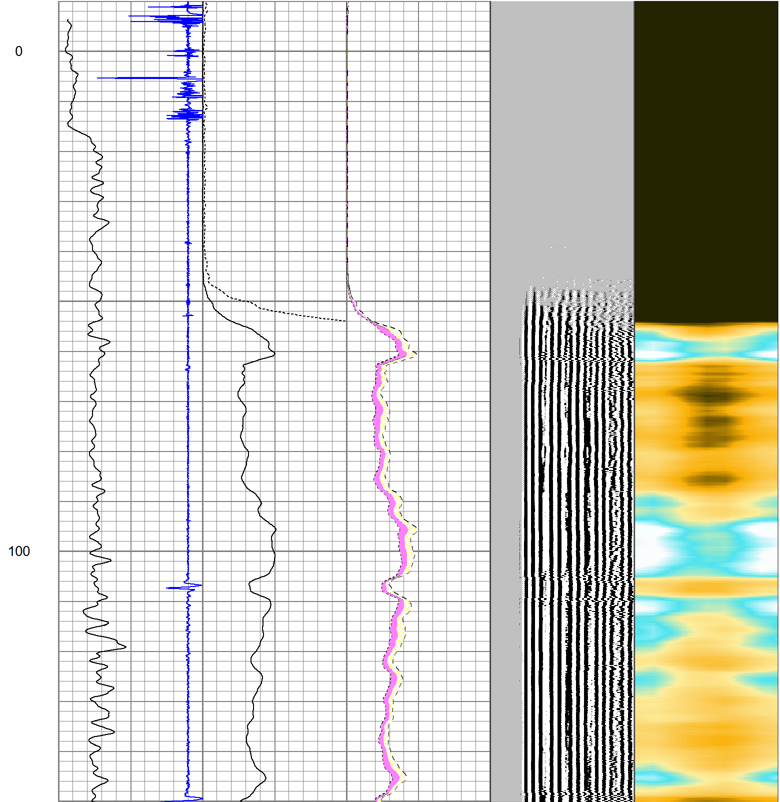


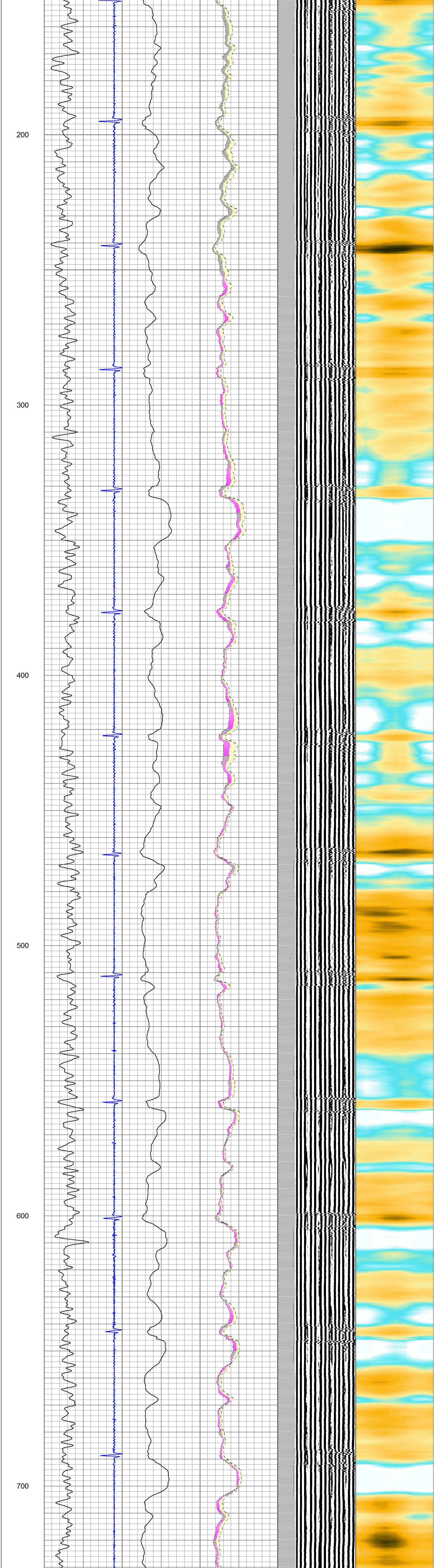
Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT #2 -A (1)	2.83	2.75	20.00
HEADVOLT	16.08				
IntTemp	14.66				
		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVF3FT	11.41				
WVFCAL	11.41				
WVFS1	11.41				
WVFS2	11.41				
WVFS3	11.41				
WVFS4	11.41				
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				

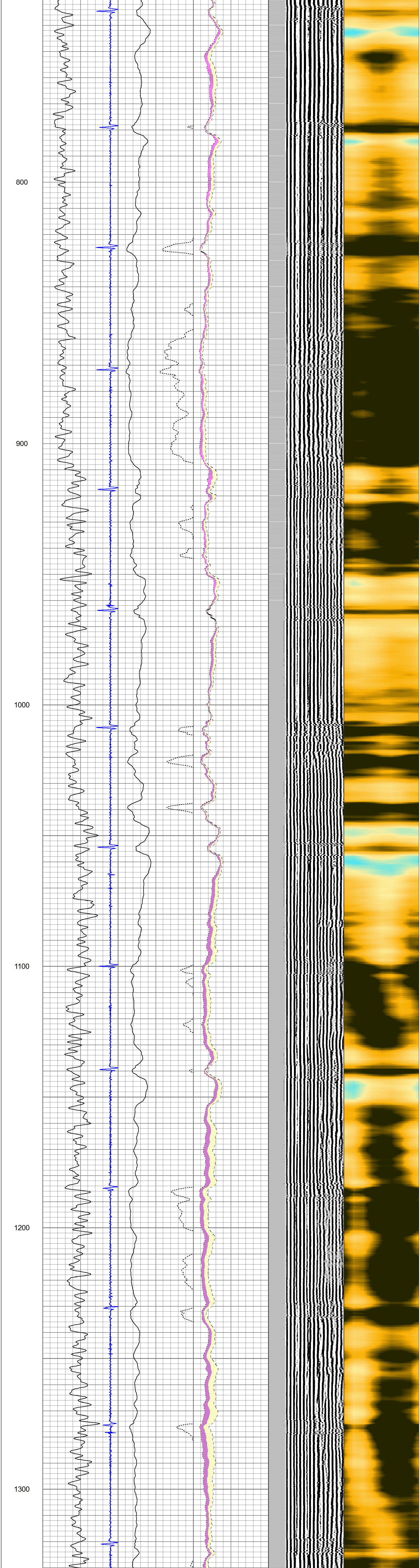
Dataset: 13415.db: field/well/run1/pass4
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

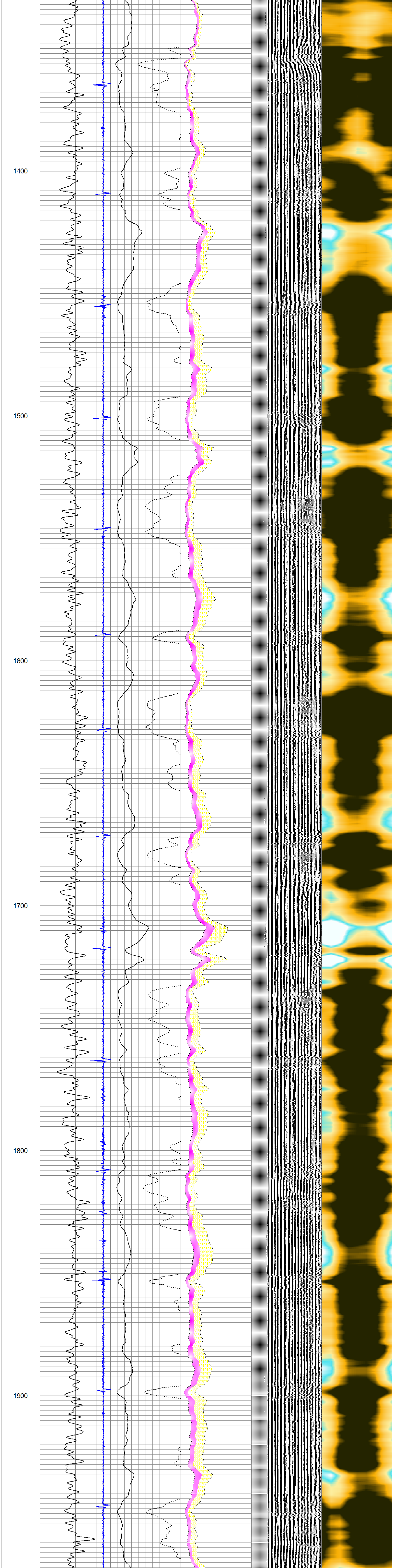
Database File: 13415.db
Dataset Pathname: pass4
Presentation Format: scbl02
Dataset Creation: Mon Jan 20 06:30:10 2014
Charted by: Depth in Feet scaled 1:240

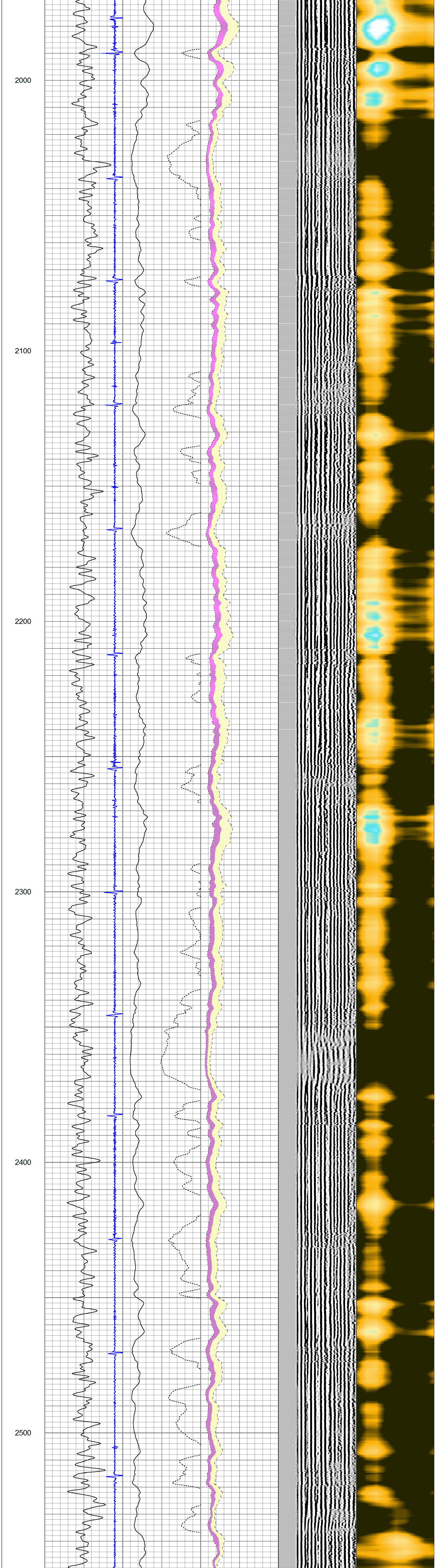
-9 CCL 1	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
0 GR (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		25 75
		0 AMPMIN 150		

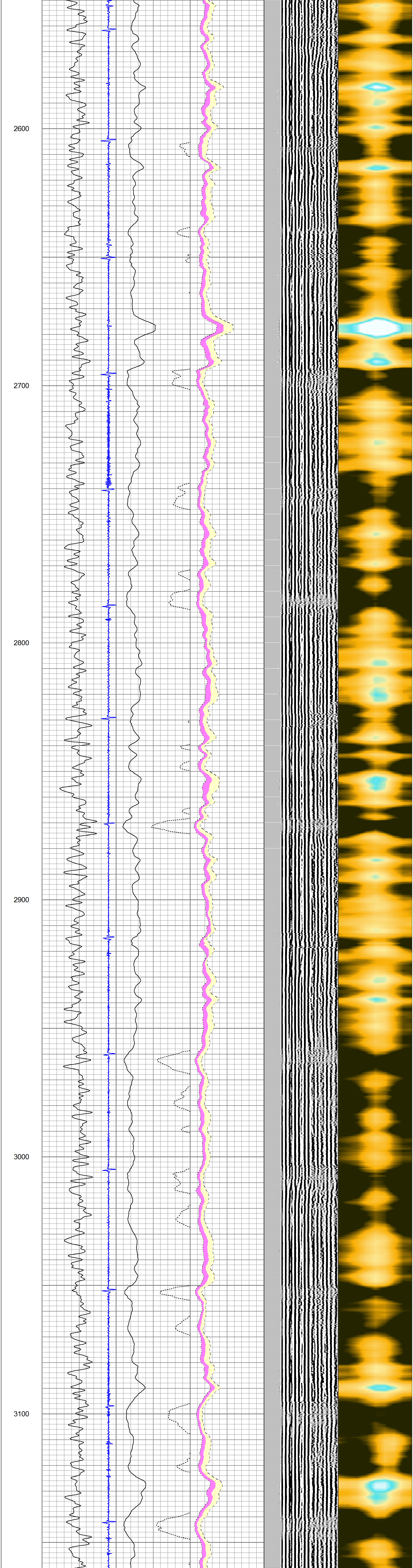


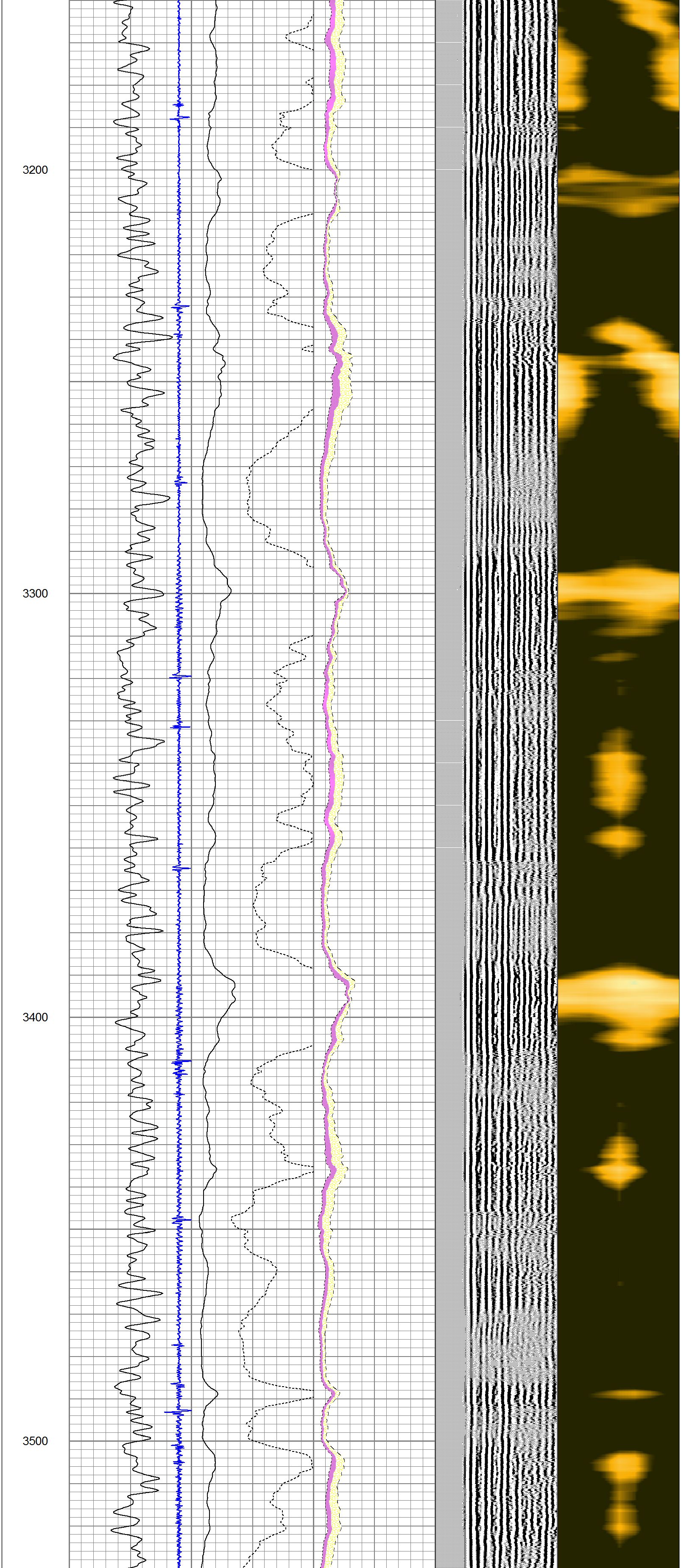


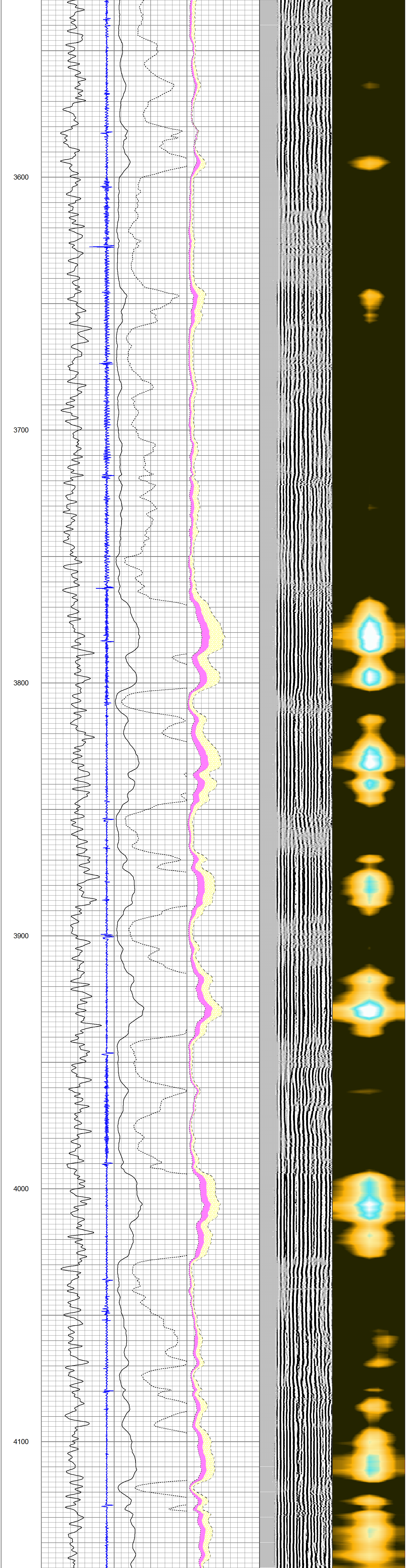








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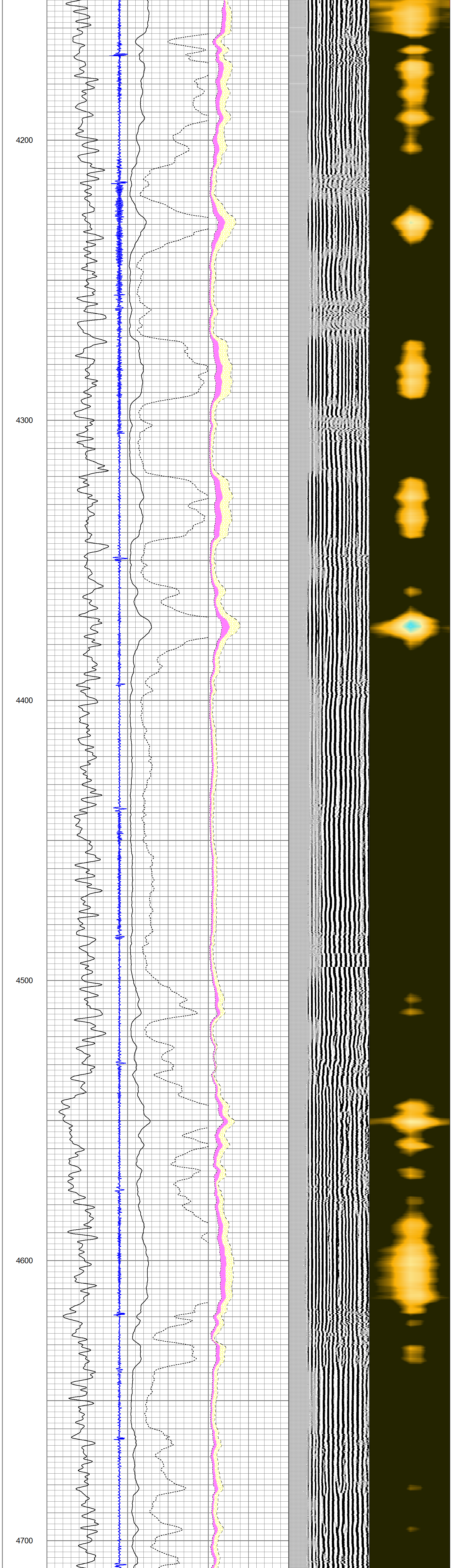
3800
3900
4000
4100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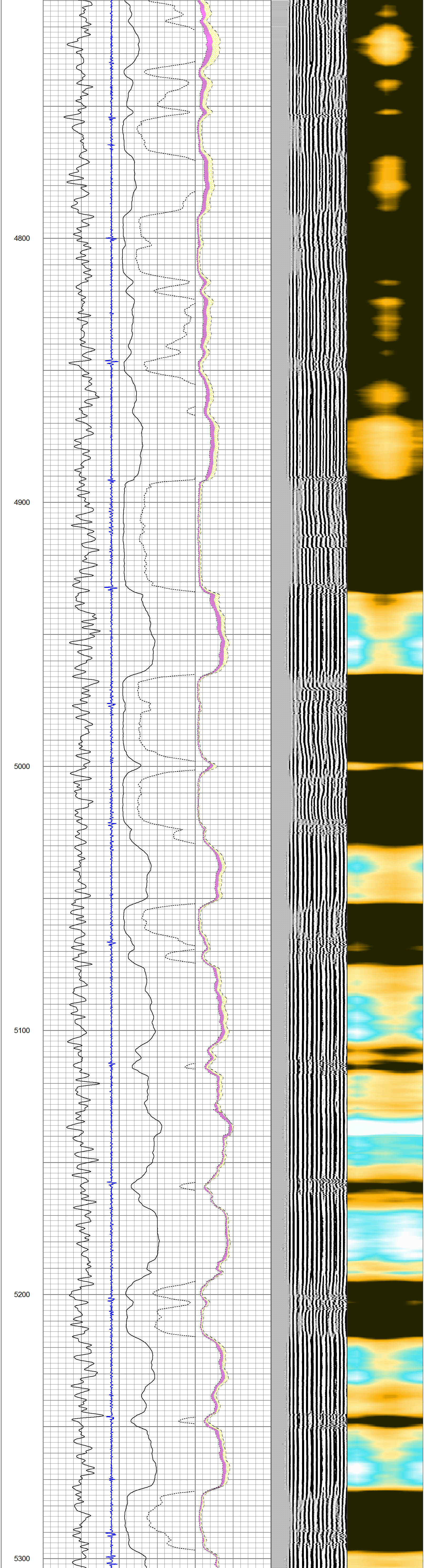
4700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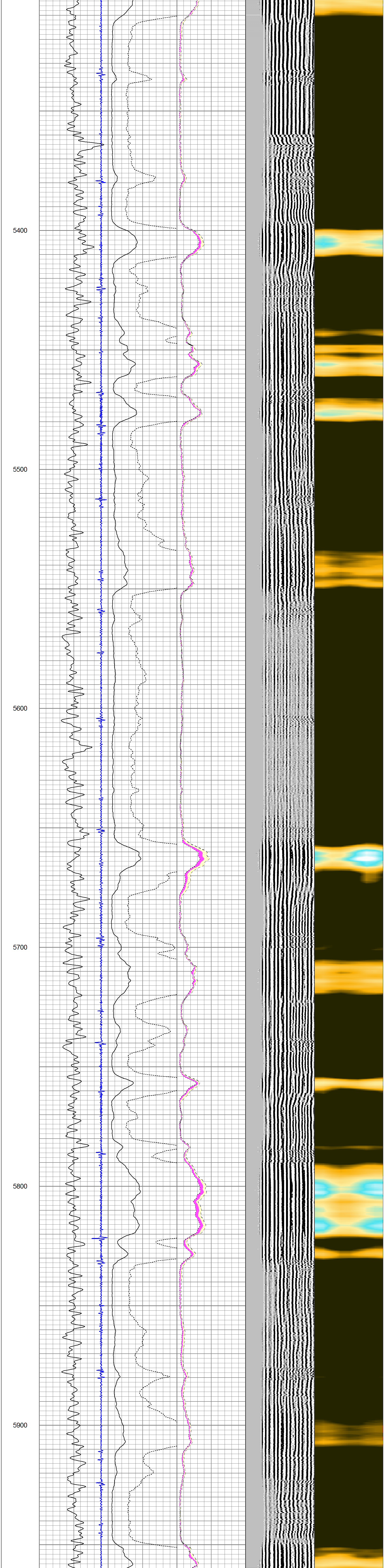
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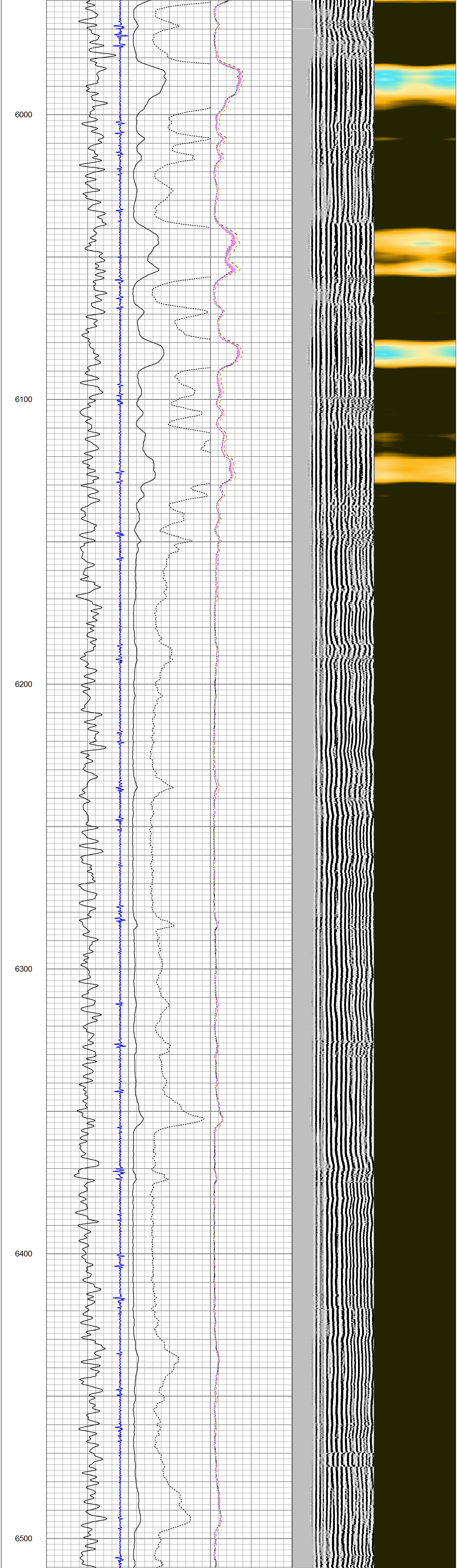
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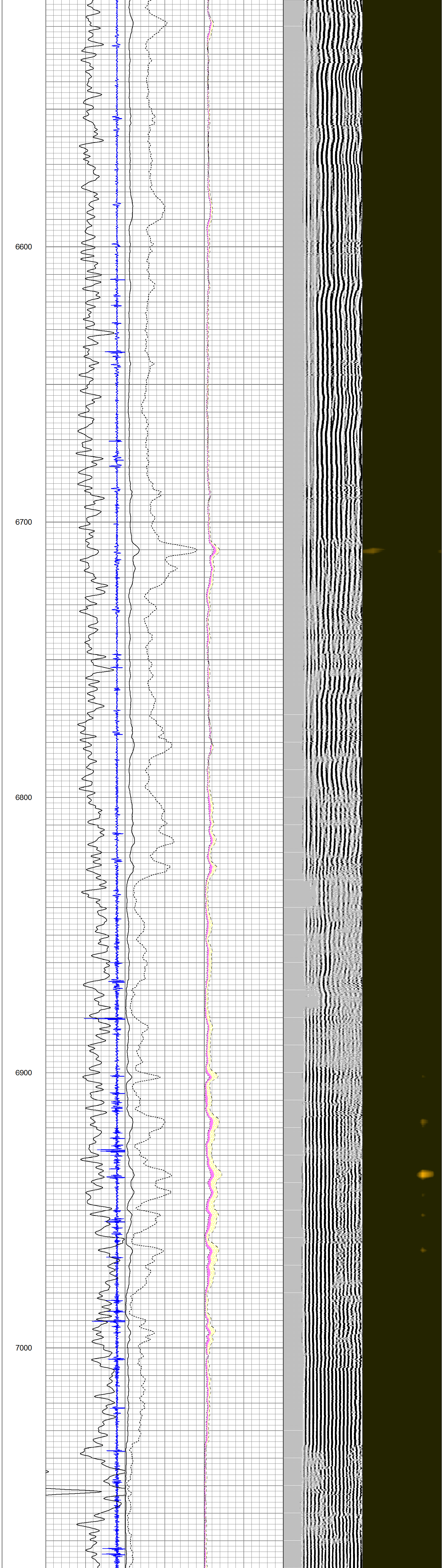
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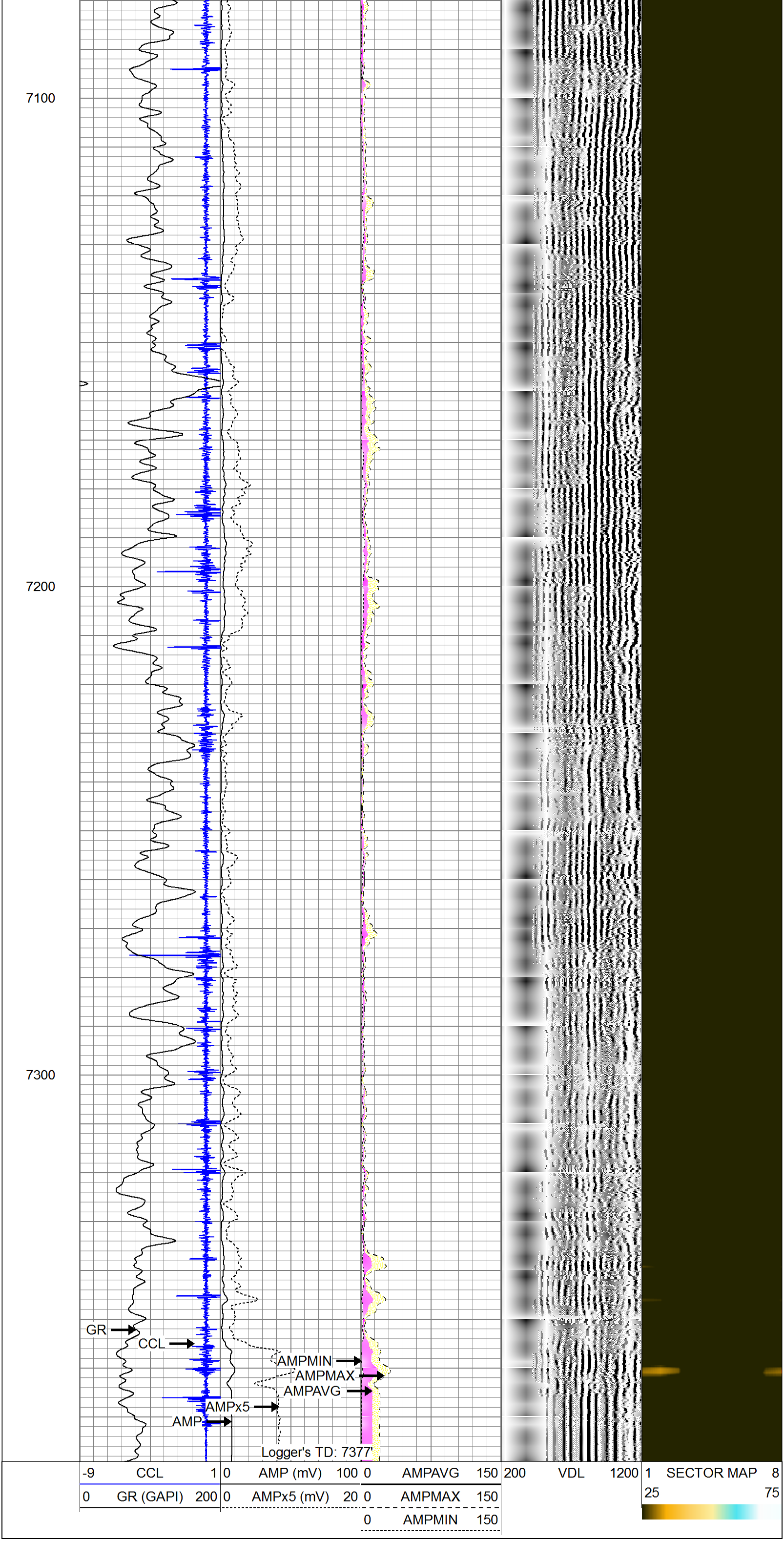
6700
6800
6900
7000


7100
7200
7300
GR
CCL
AMPMIN
AMPMAX
AMPAVG
AMPx5
AMP
Logger's TD: 7377'
-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
25 75