J-W WIRELINE COMPANY

GAMMA RAY CCL
CEMENT BOND VDL
SECTOR MAP

Company	BLACK RAVEN ENERGY INC.
Well	L CLAR 1
Field	ADENA
County	MORGAN
State	COLORADO

Company BLACK RAVEN ENERGY INC.
Well L CLAR 1
Field ADENA
County MORGAN State COLORADO

Location: API # : 05-087-05235
990' FNL & 2310' FWL
NE NW
SEC 24 TWP 1N RGE 58W

Other Services

Permanent Datum GL Elevation 4601
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4611
D.F.
G.L. 4601

Date	11-JULY-2014		
Run Number	ONE		
Depth Driller	5870		
Depth Logger	5649		
Bottom Logged Interval	5649		
Top Log Interval	58		
Open Hole Size	8 5/8		
Type Fluid	WATER		
Density / Viscosity	---		
Max. Recorded Temp.	---		
Estimated Cement Top	4454		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	2829		
Location	STERLING, CO		
Recorded By	BRIAN HECHT		
Witnessed By	RANDY TALKINGTON		

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	5.5"			
Liner				

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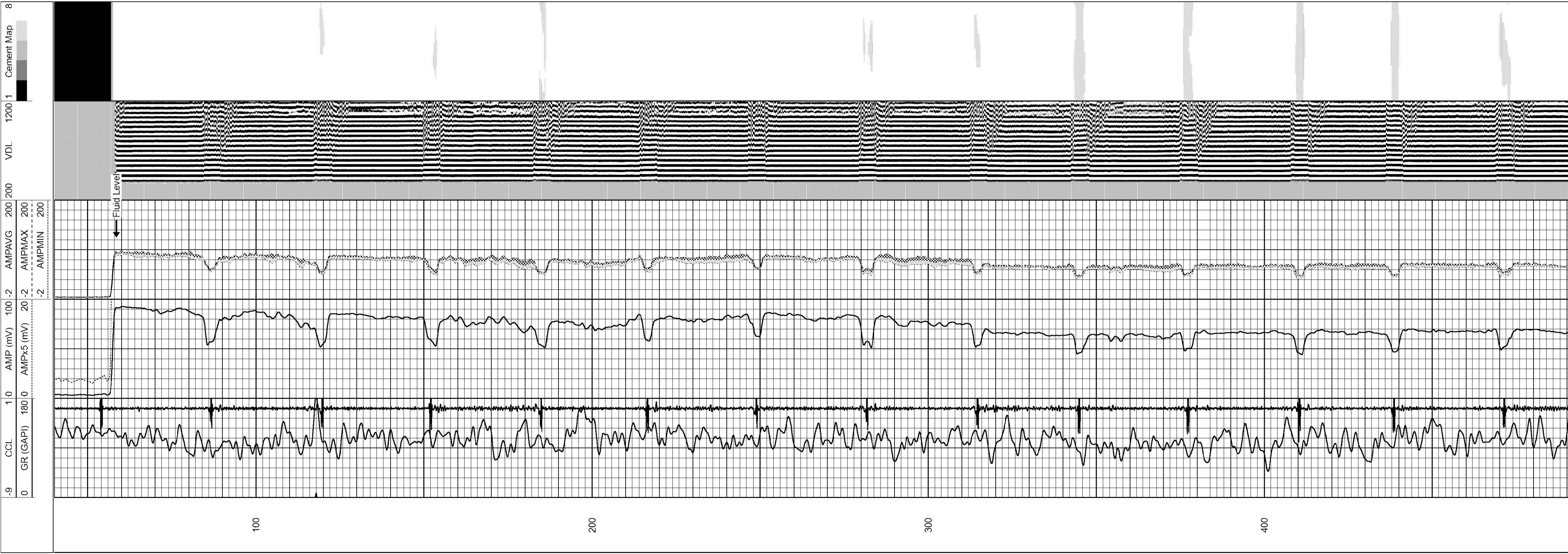
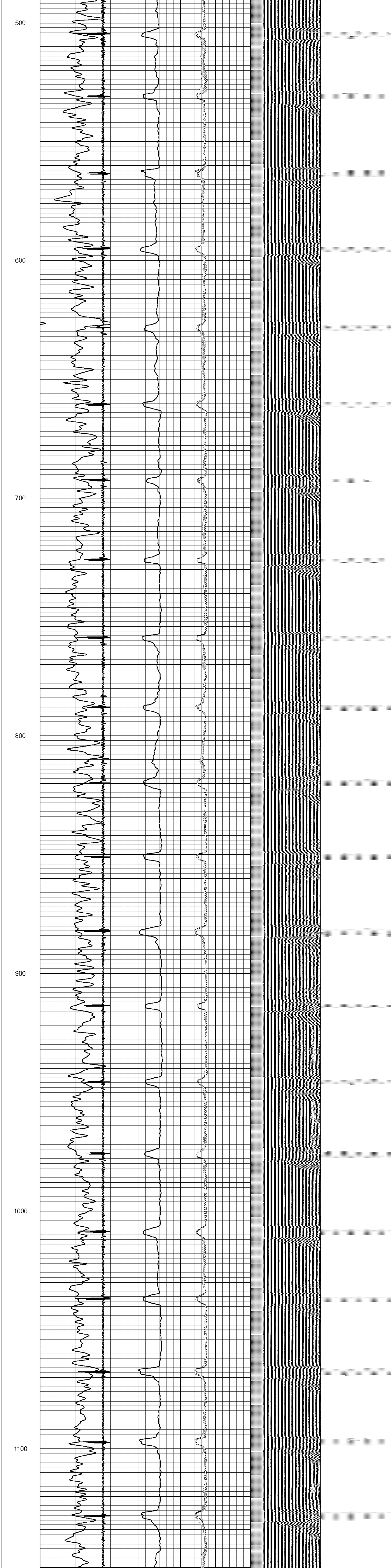
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

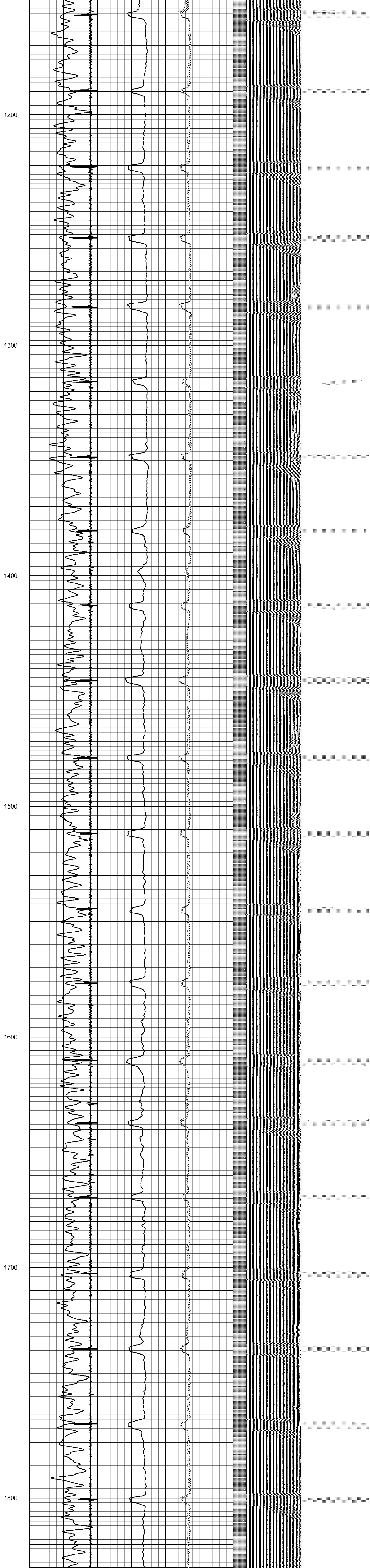
Comments

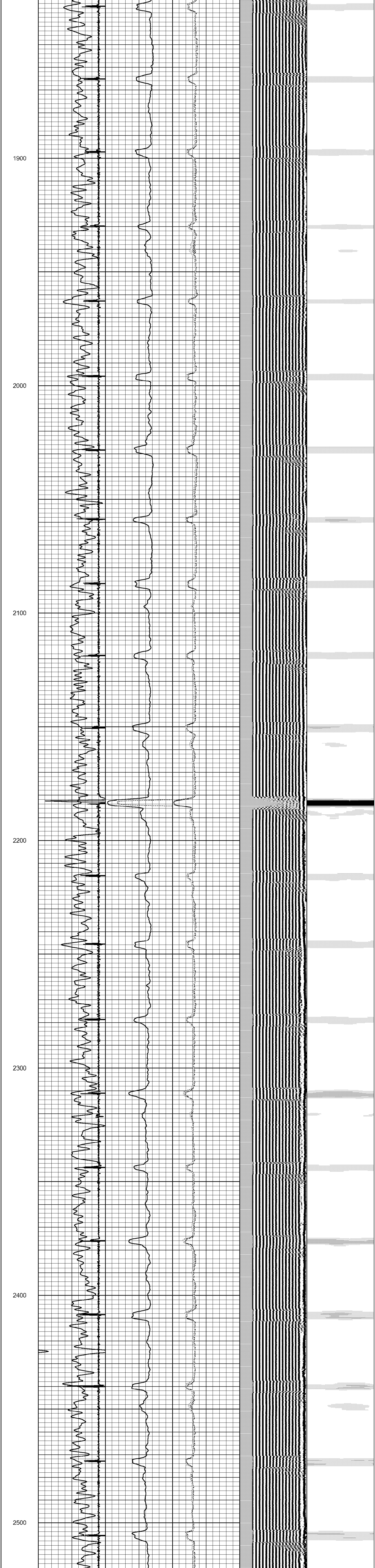
NO OPEN HOLE LOG

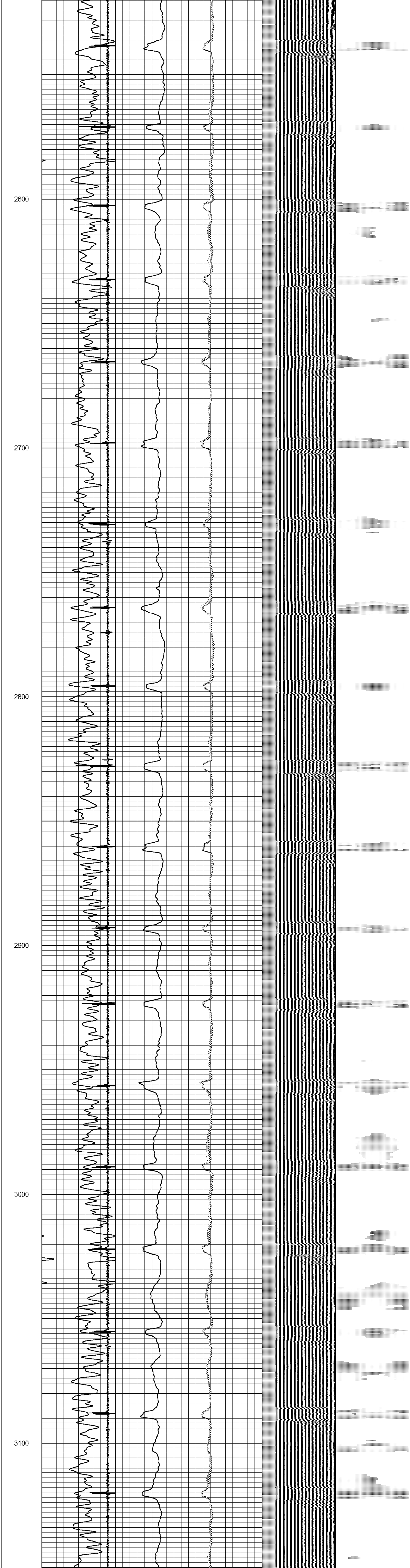
Database File:	lj clar #1.db
Dataset Pathname:	pass4
Presentation Format:	scbl02
Dataset Creation:	Fri Jul 11 07:51:10 2014 by Log Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240

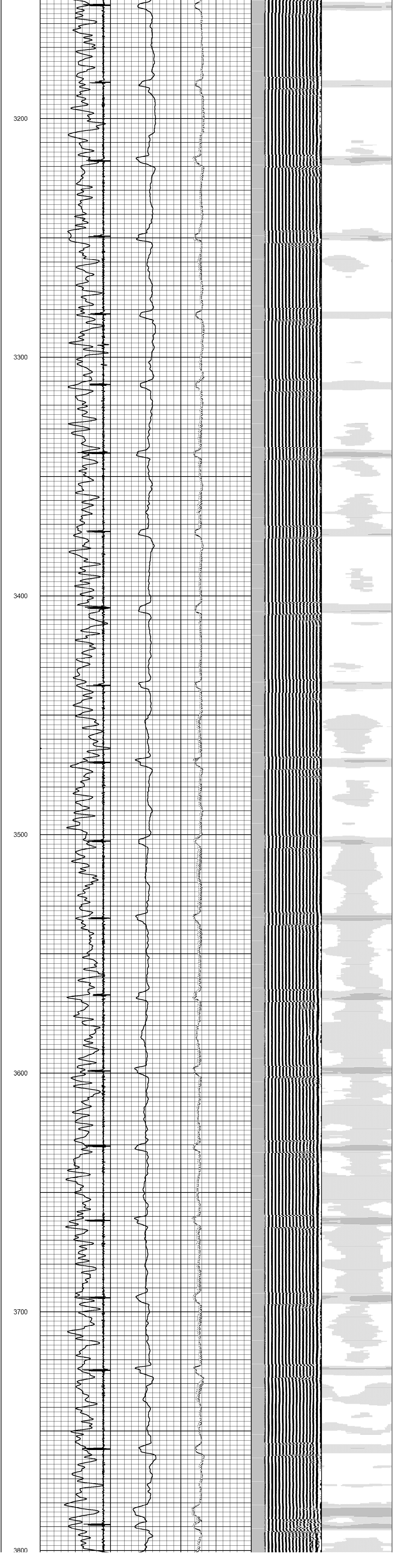


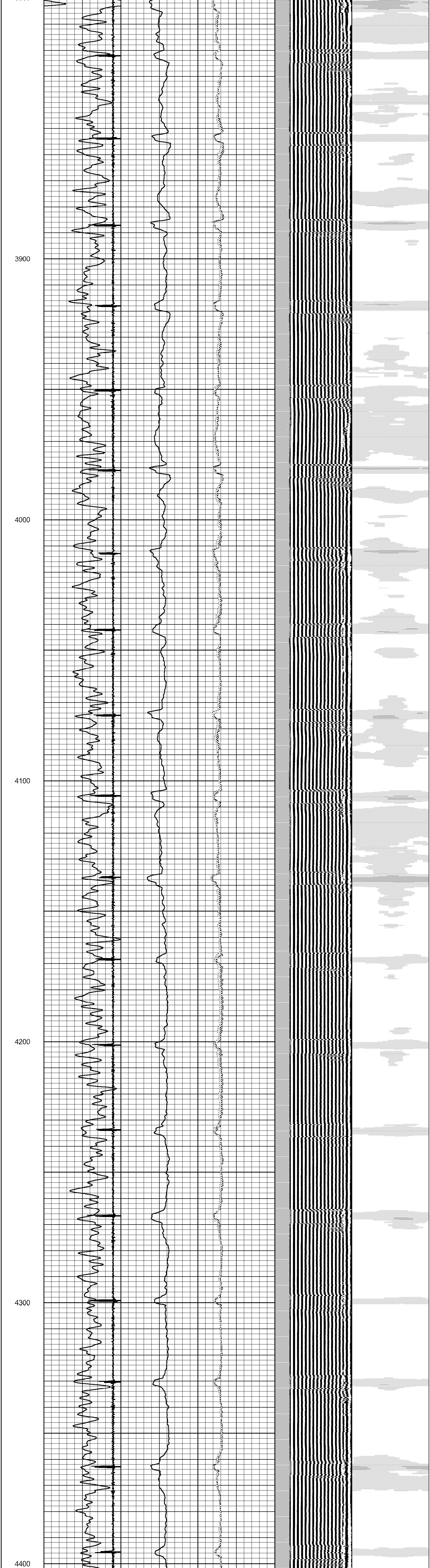








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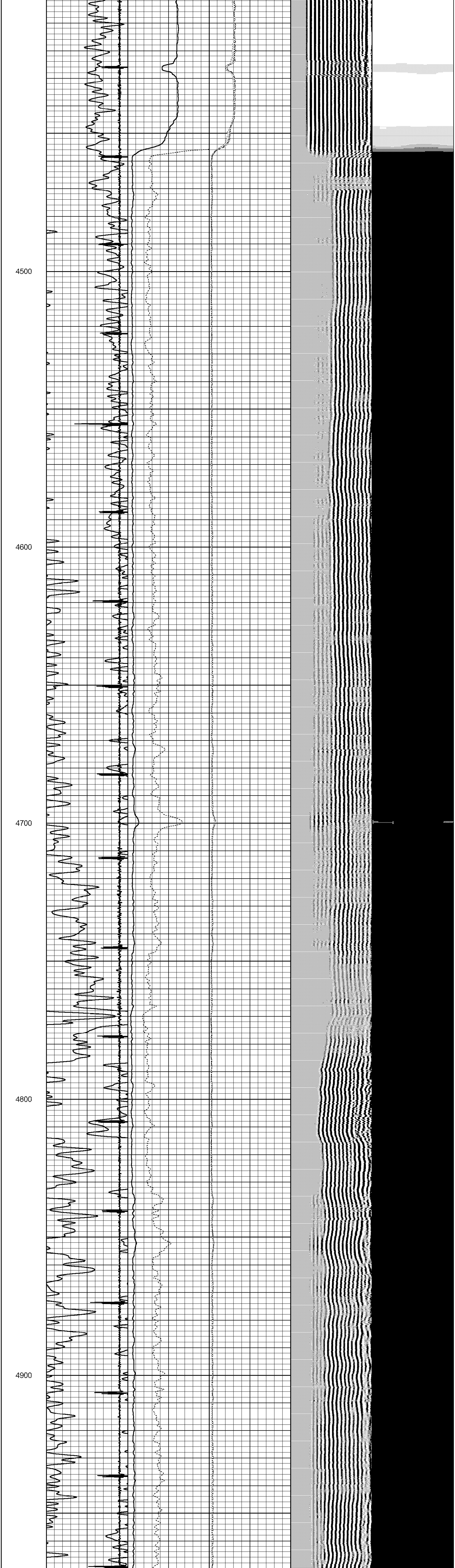
4100
4200
4300
4400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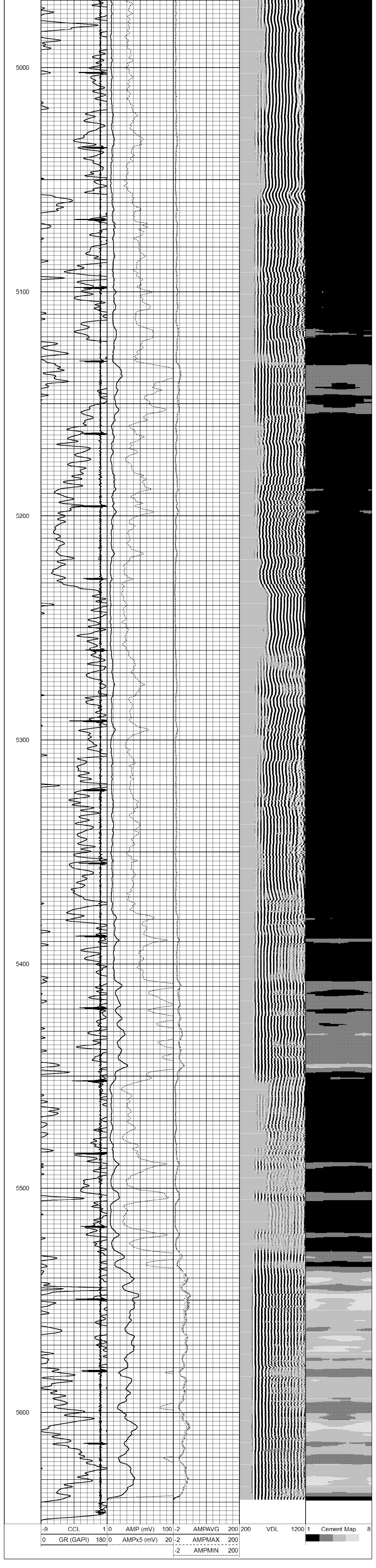
5000
5100
5200
5300
5400
5500
5600
-9 CCL 1
0 GR (GAPI) 180
0 AMP (mV) 100
0 AMPx5 (mV) 20
-2 AMPAVG 200
-2 AMPMAX 200
-2 AMPMIN 200
200 VDL 1200
1 Cement Map 8