Company PDC Energy
Well Thistle Down 31G -232
Field Wattenberg
County Weld
State CO

C&J ENERGY SERVICES

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.

Company PDC Energy
Well Thistle Down 31G -232
Field Wattenberg
County Weld State CO
Location: API #: 05-123-45256
1489' FSL & 1357' FWL
NE / SW
SEC 31 TWP 5N RGE 64W

Other Services

Permanent Datum Elevation 4805'
Log Measured From
Drilling Measured From

Elevation
K.B.
D.F.
G.L. 4805'

Date	February 1, 2018		
Run Number	1		
Depth Driller	12,861'		
Depth Logger	7100'		
Bottom Logged Interval	7100'-0'		
Top Log Interval			
Casing Size			
Type Fluid	Water		
Max. Recorded Temp.	240°		
Estimated Cement Top			
Time Well Ready			
Time Logger On Bottom			
Unit Number			
Tool Size / ID Number	Probe 2-3/4" Radii		
Location	WCR50+49,W1/2,N		
Recorded By	Meisner		
Witnessed By	Gardella		

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				

<<< Fold Here >>>

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.

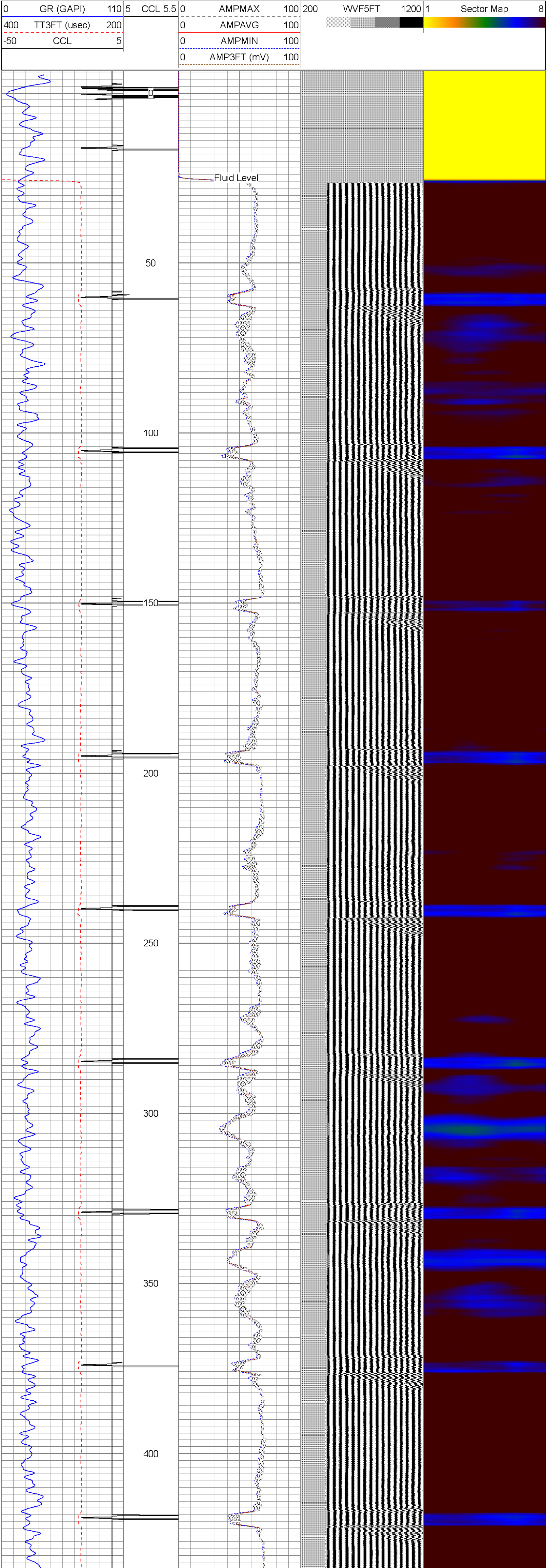
Comments

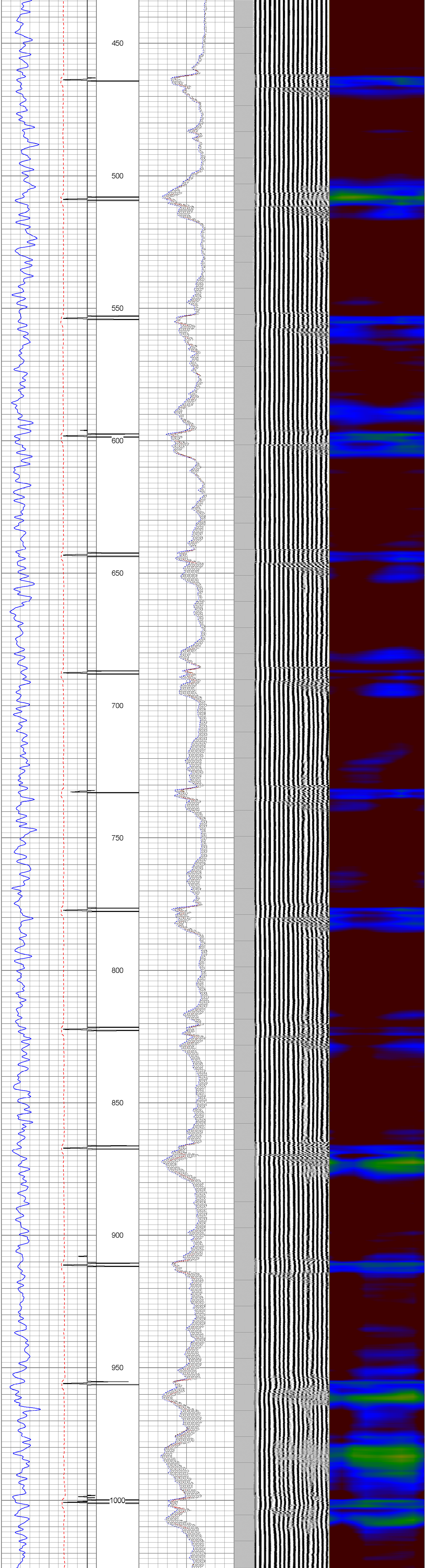
Thistle Down 10 Well Pad

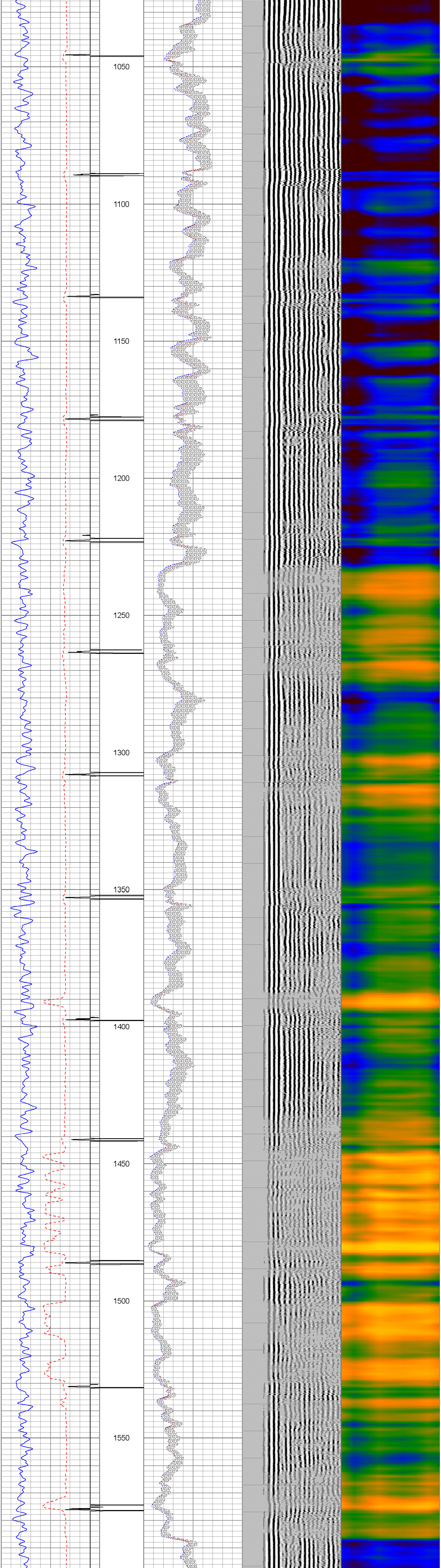
<NORTH> O O X O O O O O O O <SOUTH>

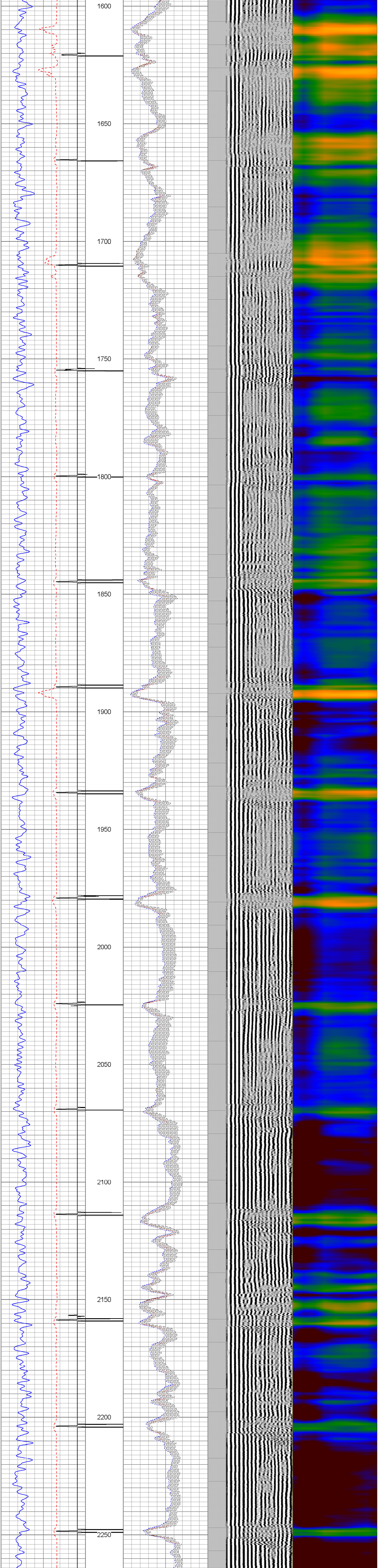
X = Thistle Down 31G - 232

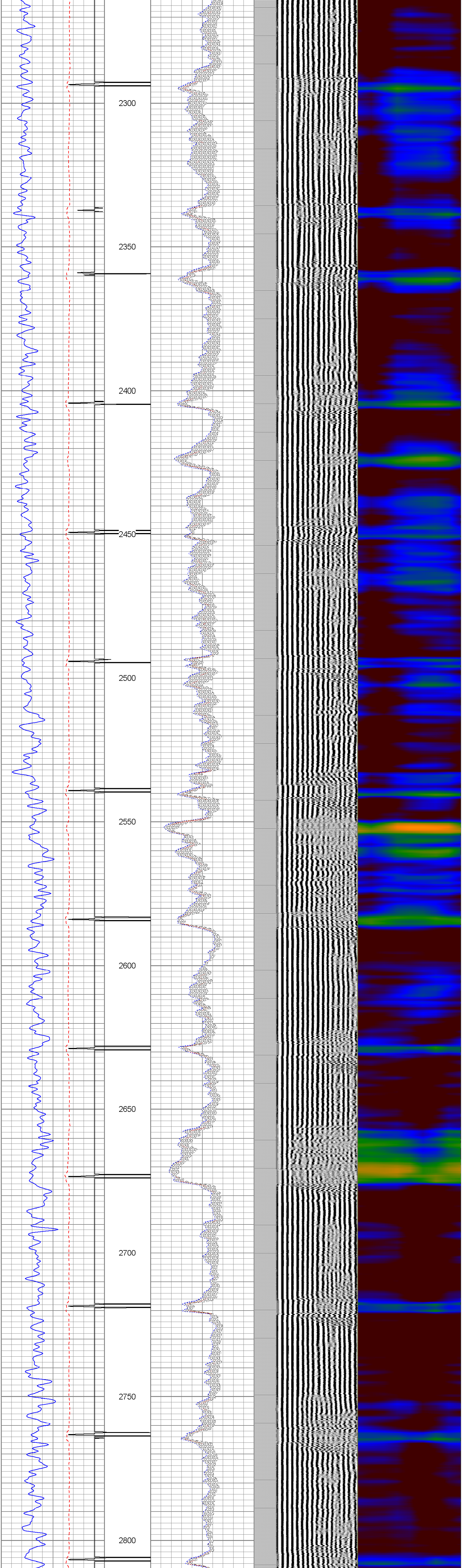
Database File:	pdct31g232.db
Dataset Pathname:	pass1
Presentation Format:	sector2
Dataset Creation:	Fri Feb 01 09:04:51 2019 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

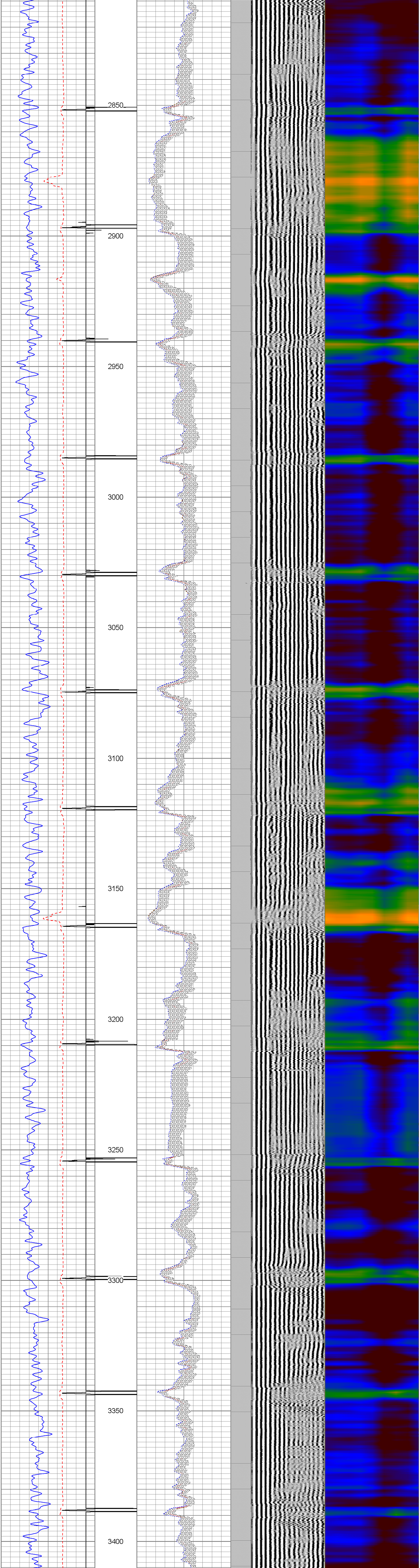


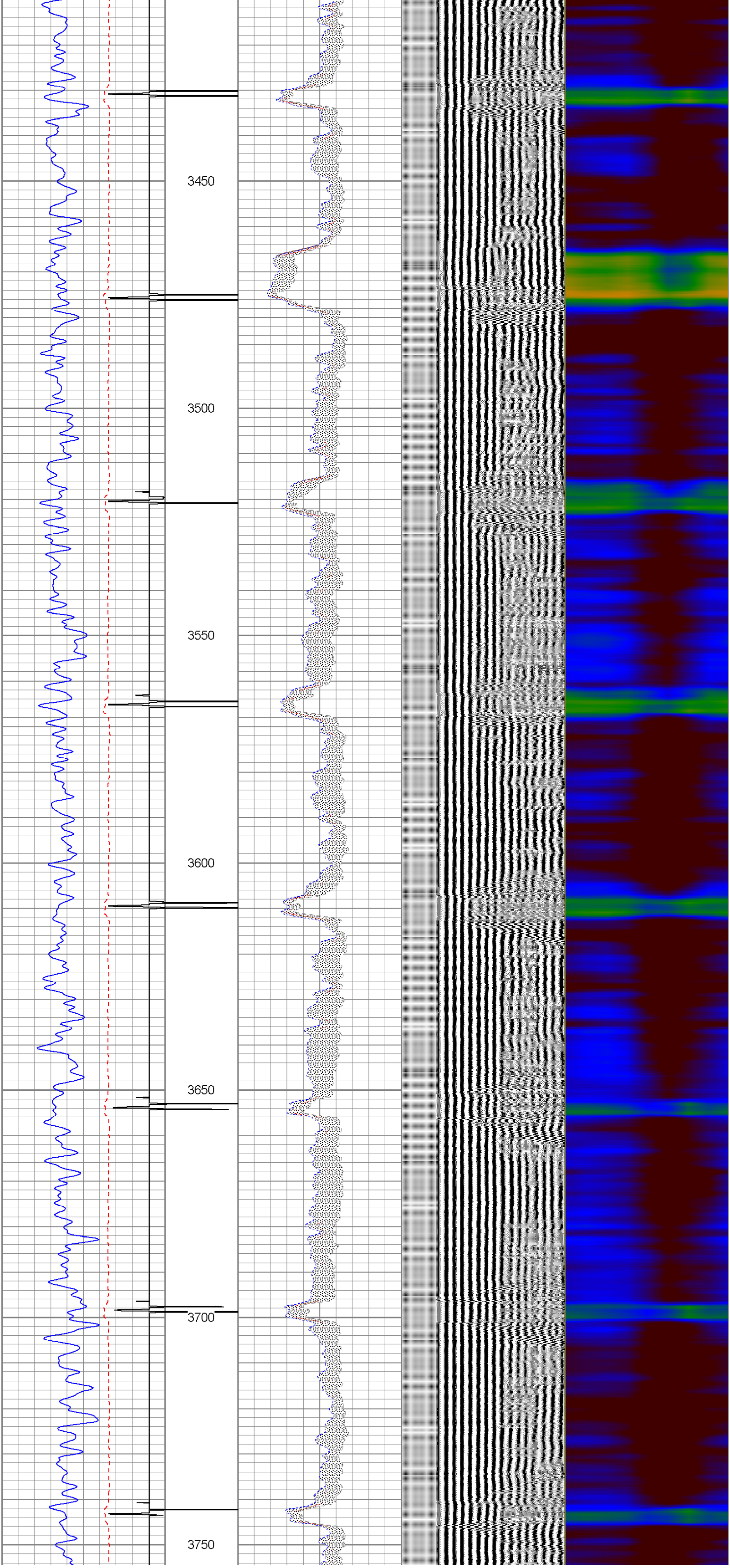


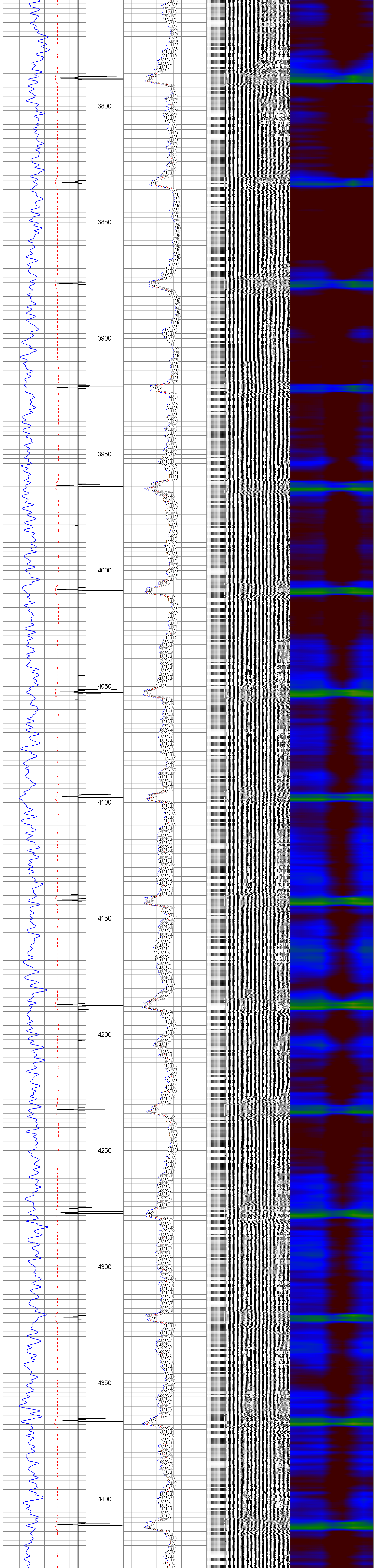


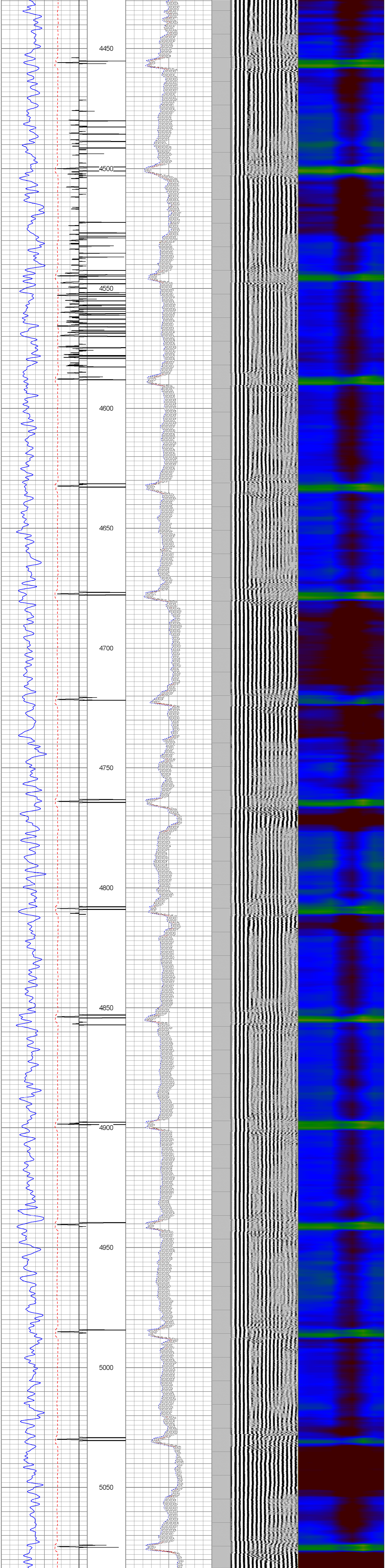


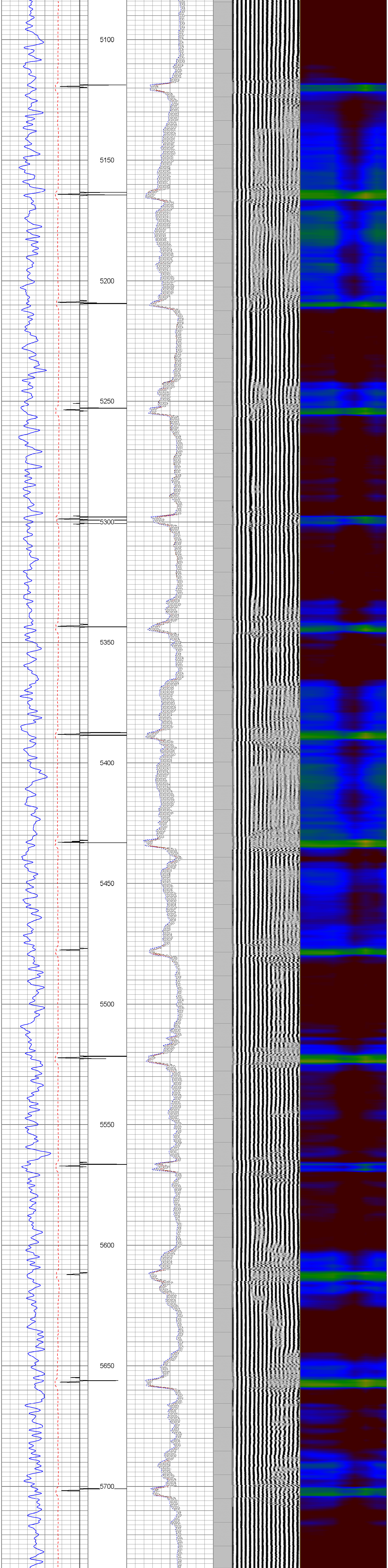


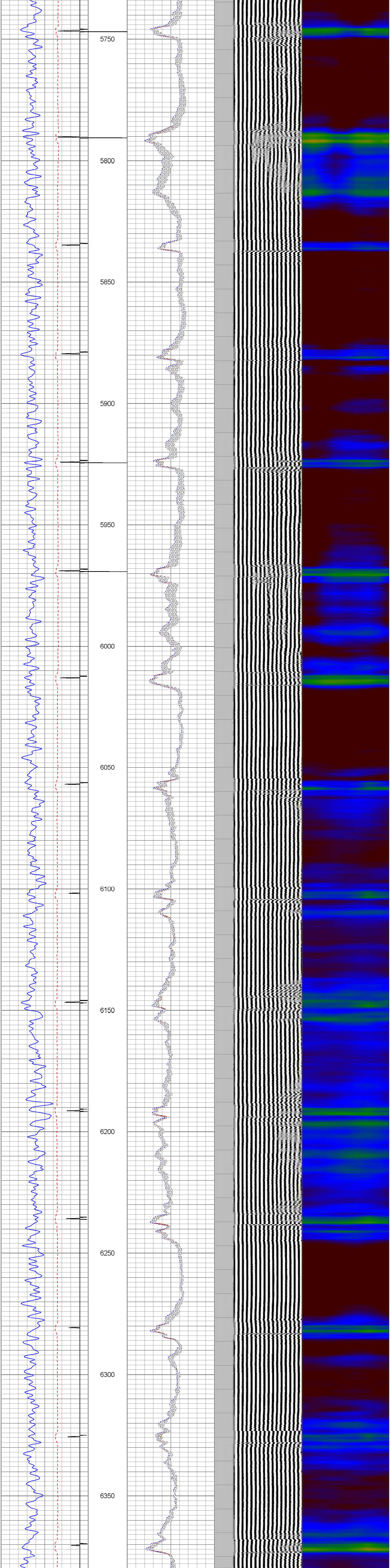


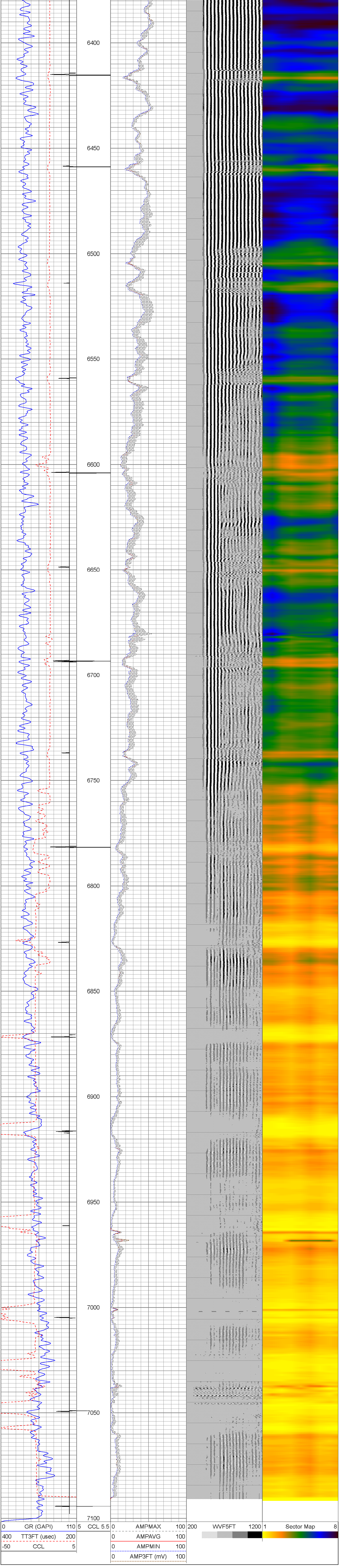



3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300
4350
4400


4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050


5100
5150
5200
5250
5300
5350
5400
5450
5500
5550
5600
5650
5700


5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350


6400
6450
6500
6550
6600
6650
6700
6750
6800
6850
6900
6950
7000
7050
7100
0 GR (GAPI) 110
400 TT3FT (usec) 200
-50 CCL 5
5 CCL 5.5
0 AMPMAX 100
0 AMPAVG 100
0 AMPMIN 100
0 AMP3FT (mV) 100
200 WVF5FT 1200
1 Sector Map 8