C&J ENERGY SERVICES

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

Company	PDC Energy
Well	Fern 11V - 304
Field	Wattenberg
County	Weld
State	CO

Company PDC Energy
Well Fern 11V - 304
Field Wattenberg
County Weld State CO
Location: API #: 05-123-44581
321' FNL & 689' FWL
NW / NW
SEC 11 TWP 5N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4619'	Elevation
Log Measured From	GL			K.B.
Drilling Measured From	KB			D.F.
				G.L. 4619'

Date	May 2, 2018
Run Number	1
Depth Driller	15,563'
Depth Logger	6900'
Bottom Logged Interval	6900-0'
Top Log Interval	
Casing Size	
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	923856
Tool Size / ID Number	2-3/4" Probe Radii
Location	HWY263+Fern,S1/10,Einto
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

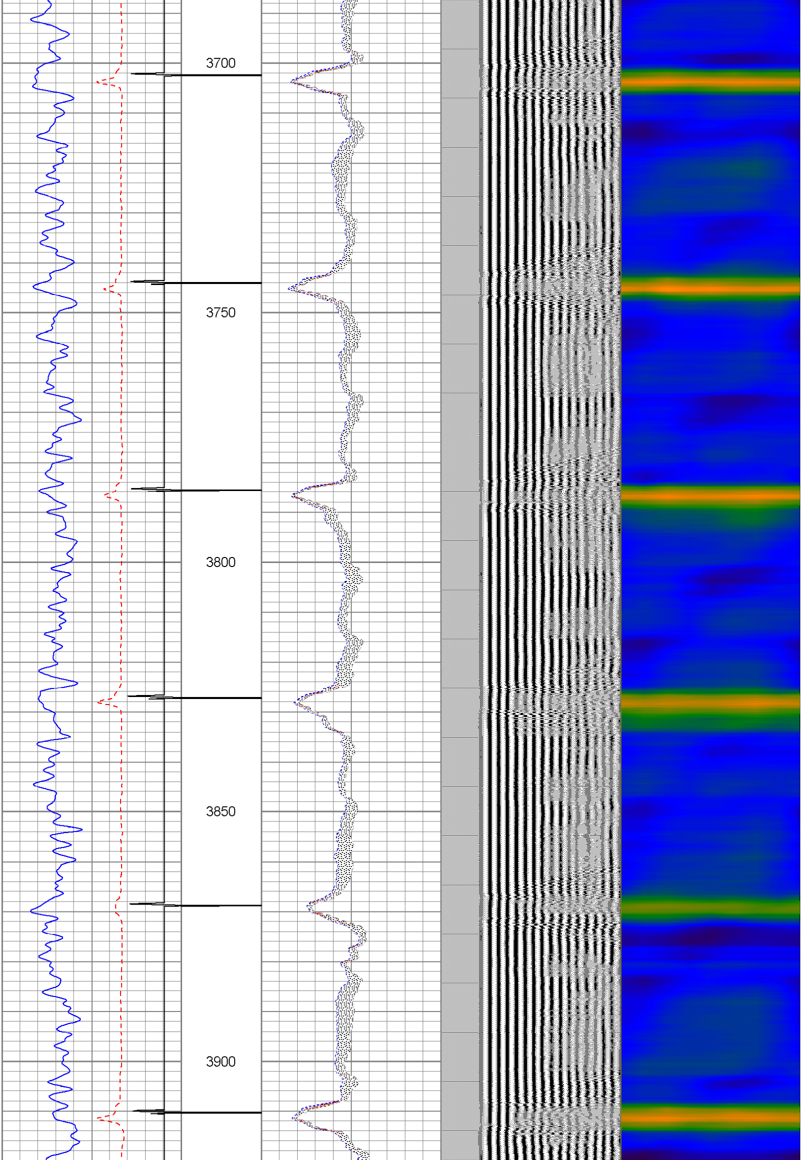
Fern 10 Well Pad

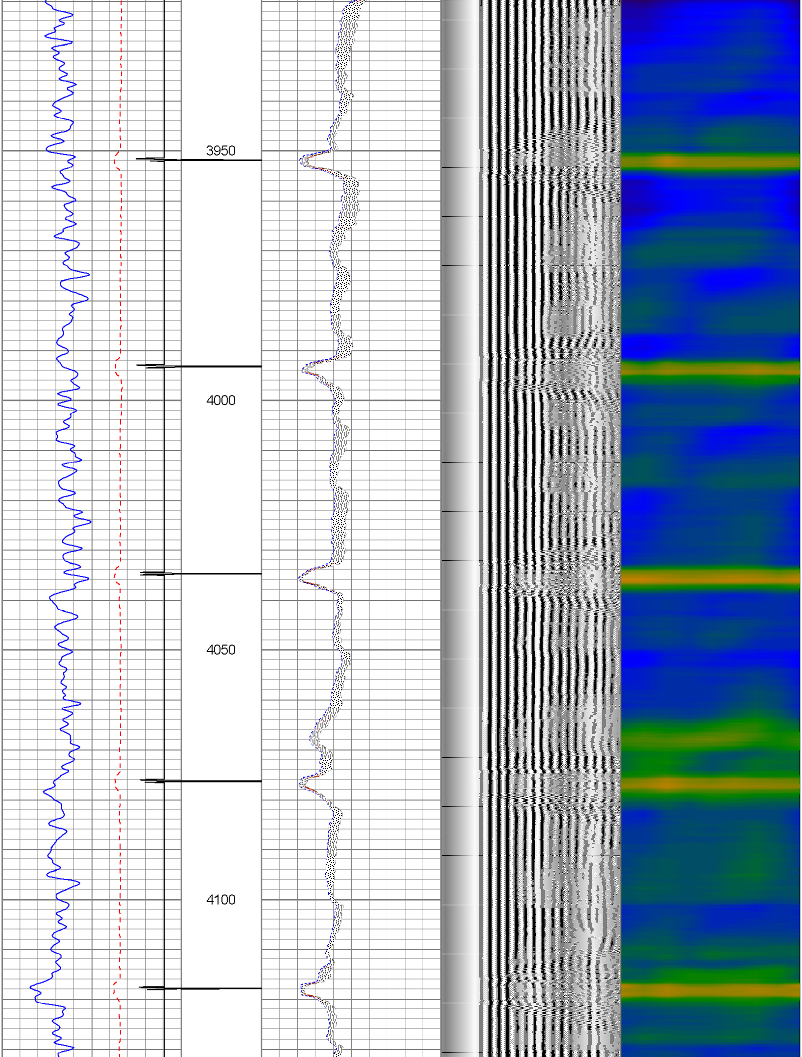
<NORTH> O O O O X O O O O O <SOUTH>

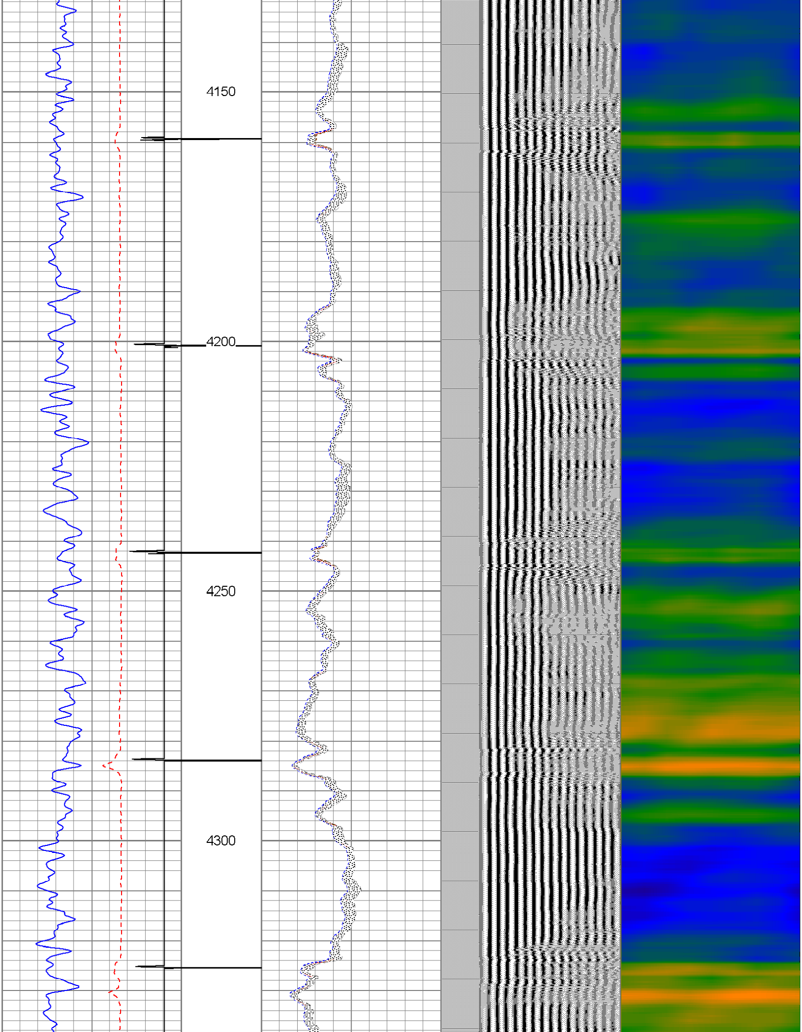
X = Fern 11V - 304

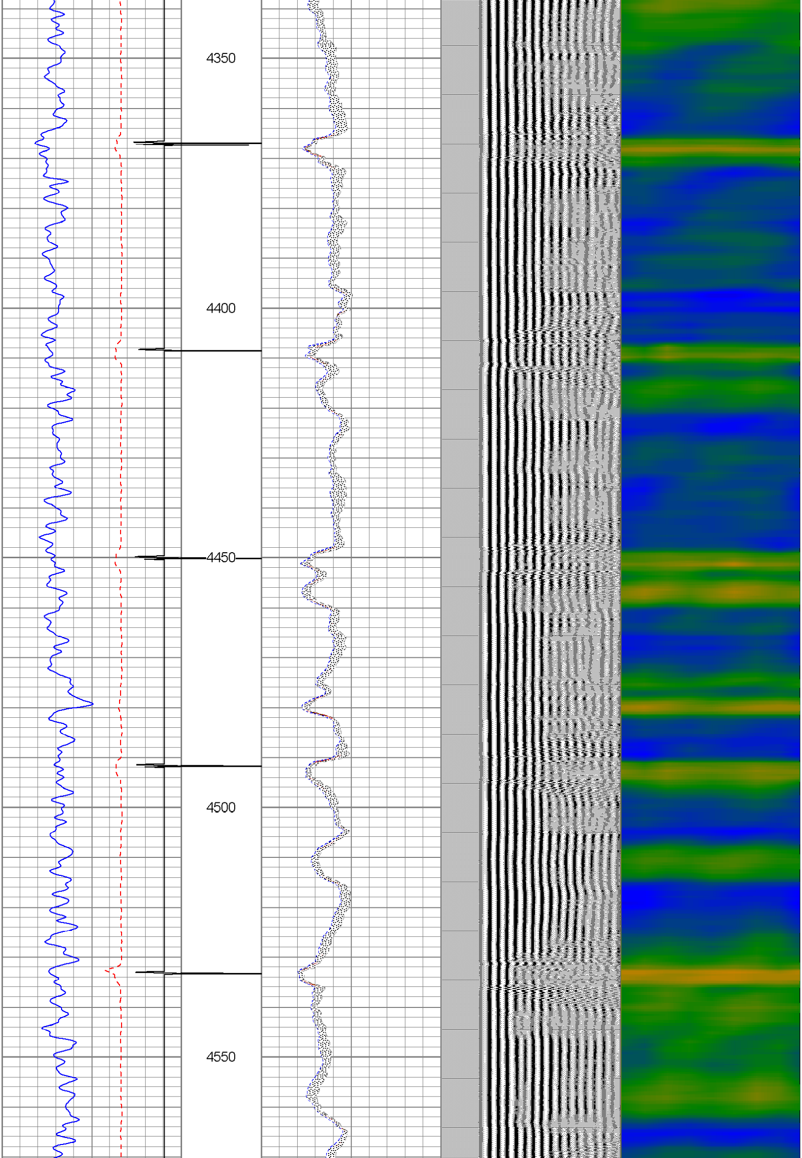
Database File:	pdcf11v304.db
Dataset Pathname:	pass2
Presentation Format:	sector2
Dataset Creation:	Wed May 02 14:17:09 2018 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

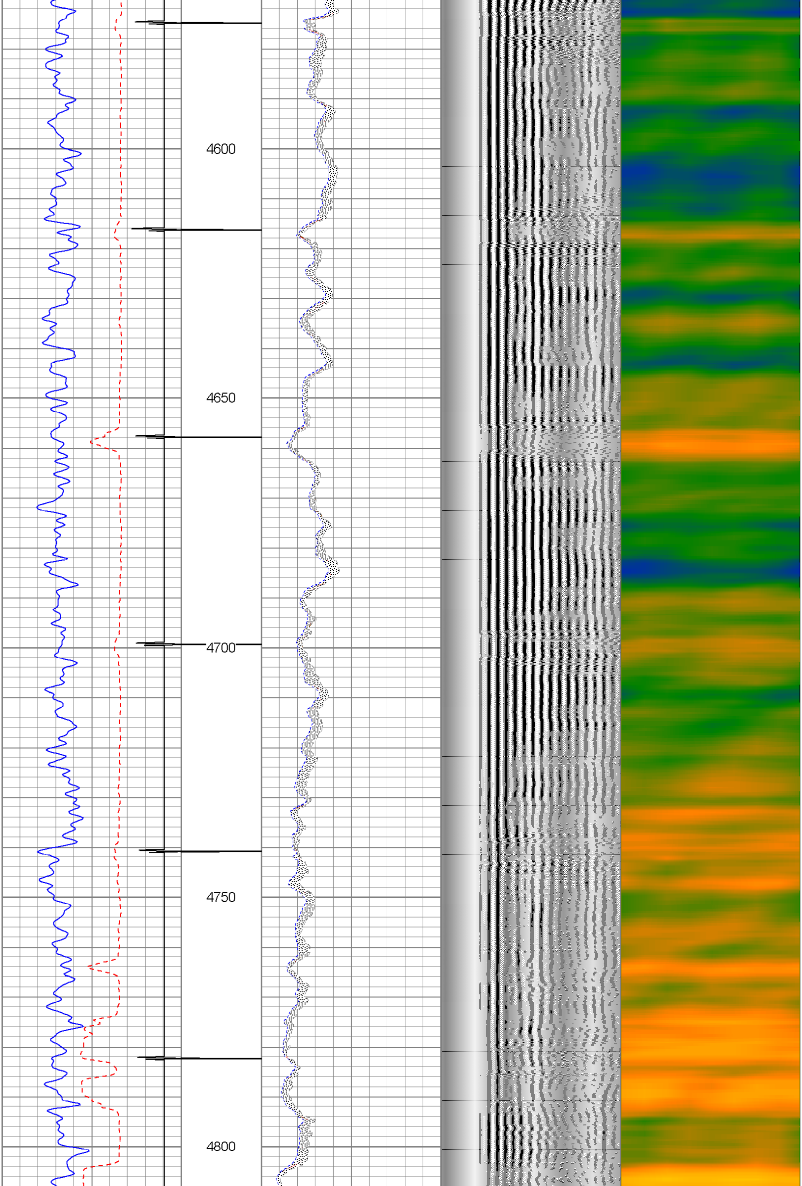
Database File:	pdcf11v304.db
Dataset Pathname:	pass1
Presentation Format:	sector2
Dataset Creation:	Wed May 02 13:28:22 2018 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

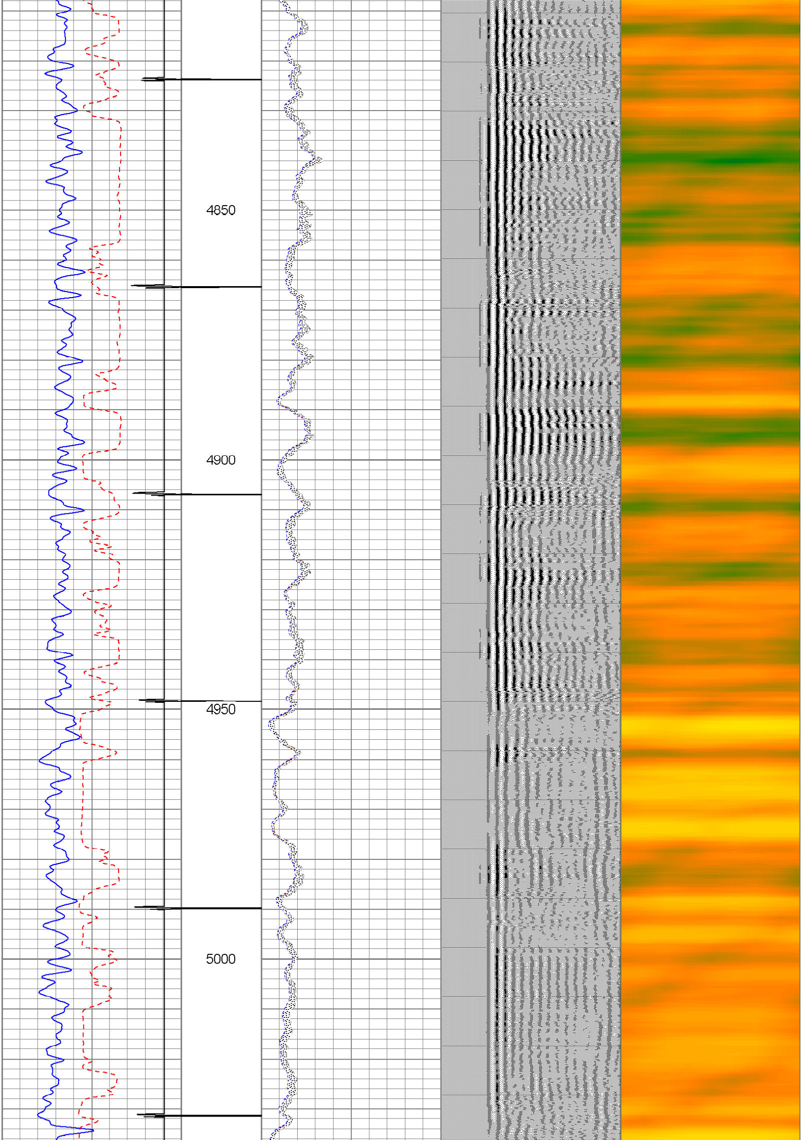

3700
3750
3800
3850
3900

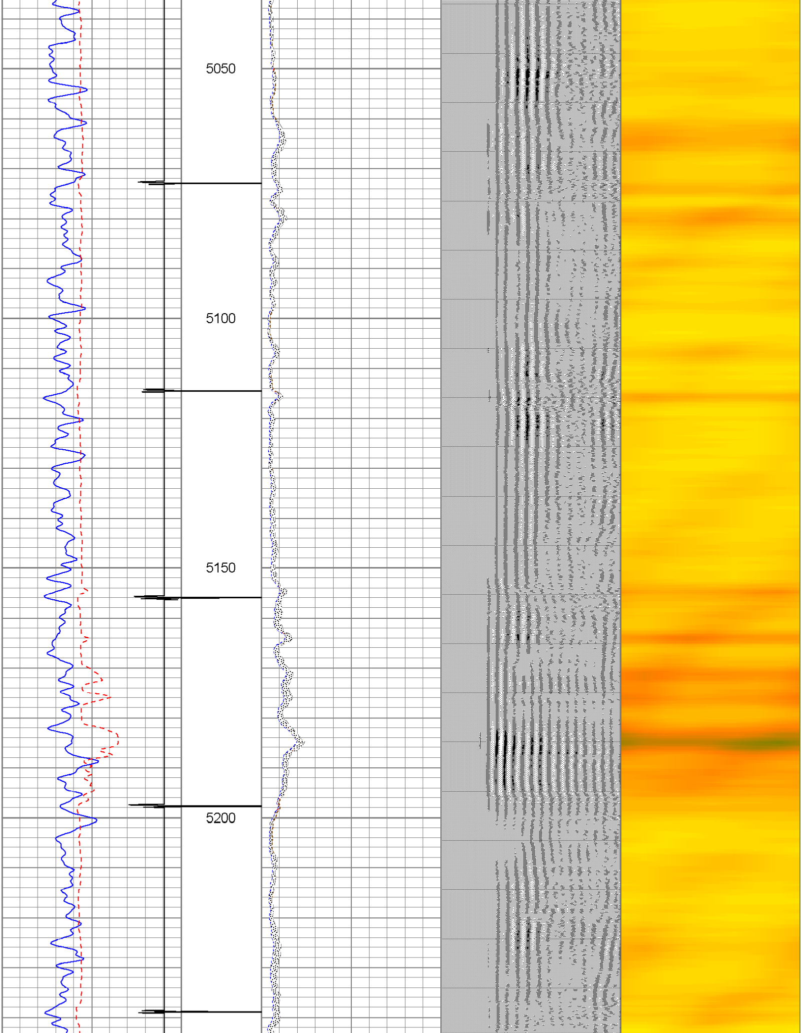

3950
4000
4050
4100

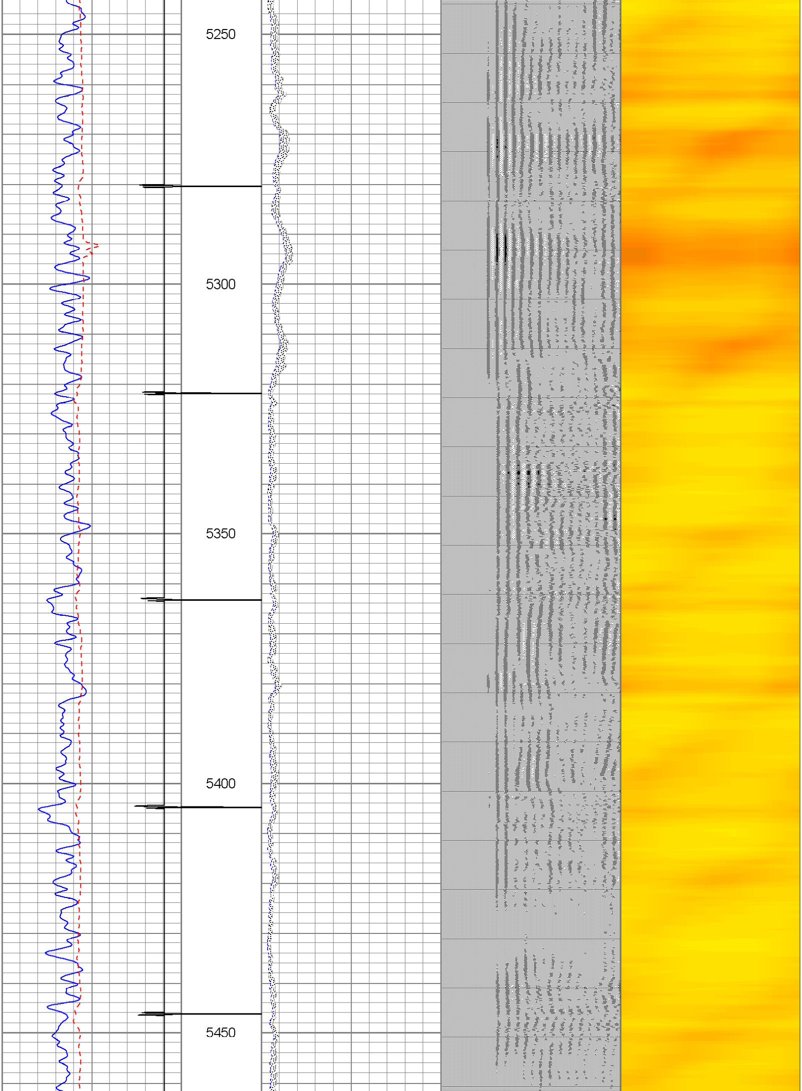

4150
4200
4250
4300

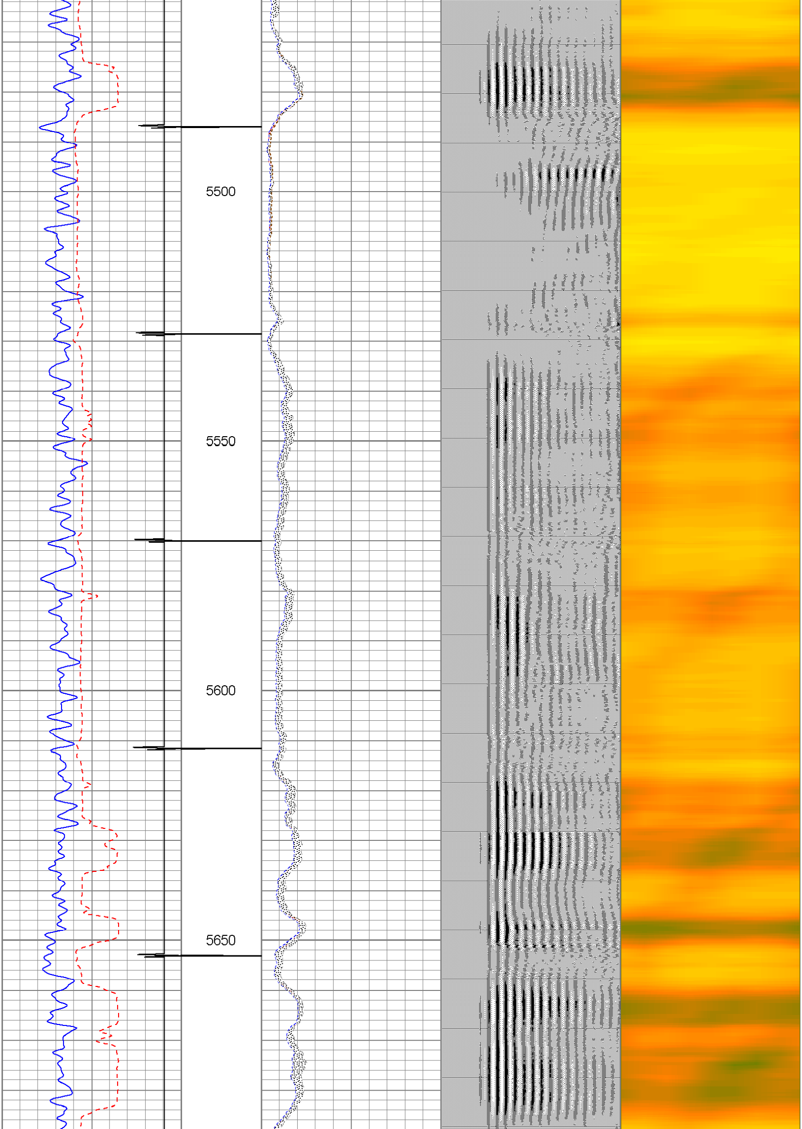

4350
4400
4450
4500
4550

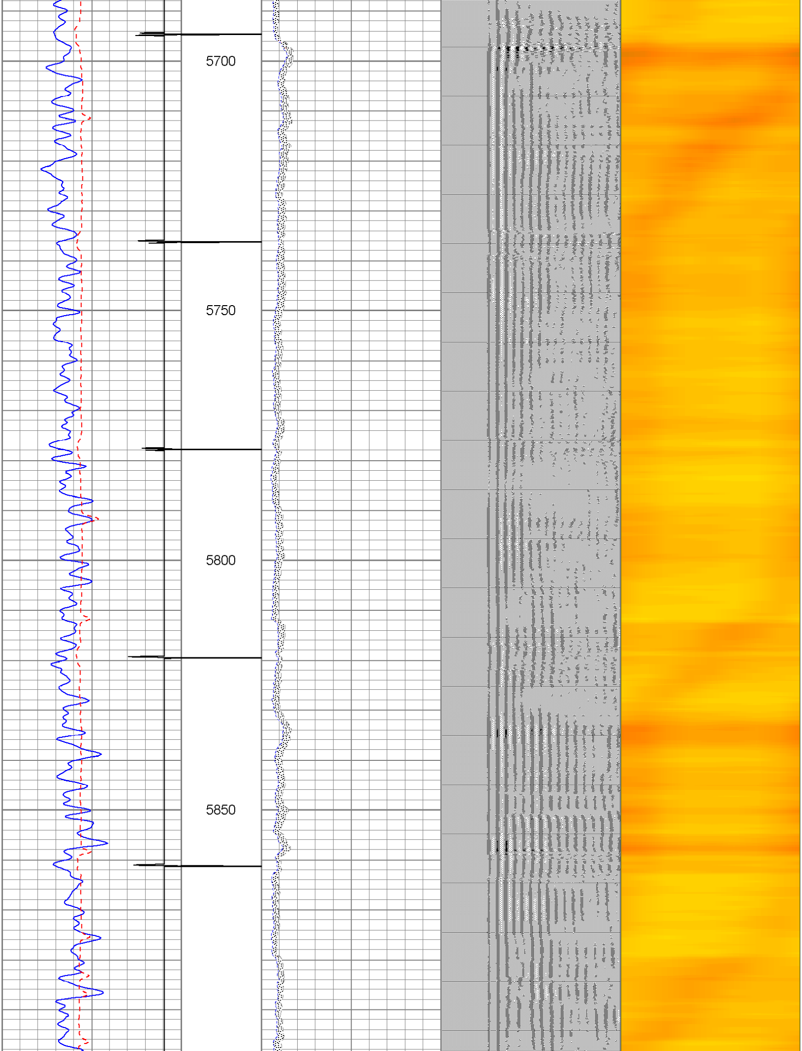

4600
4650
4700
4750
4800

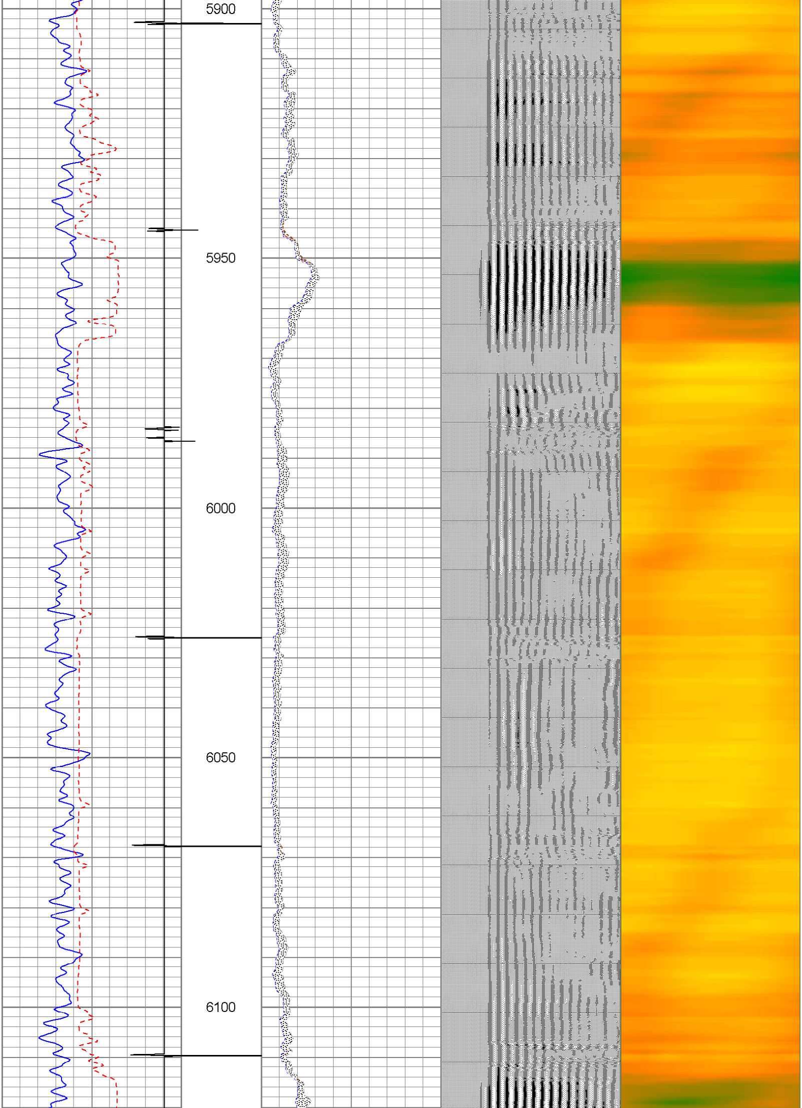

4850
4900
4950
5000

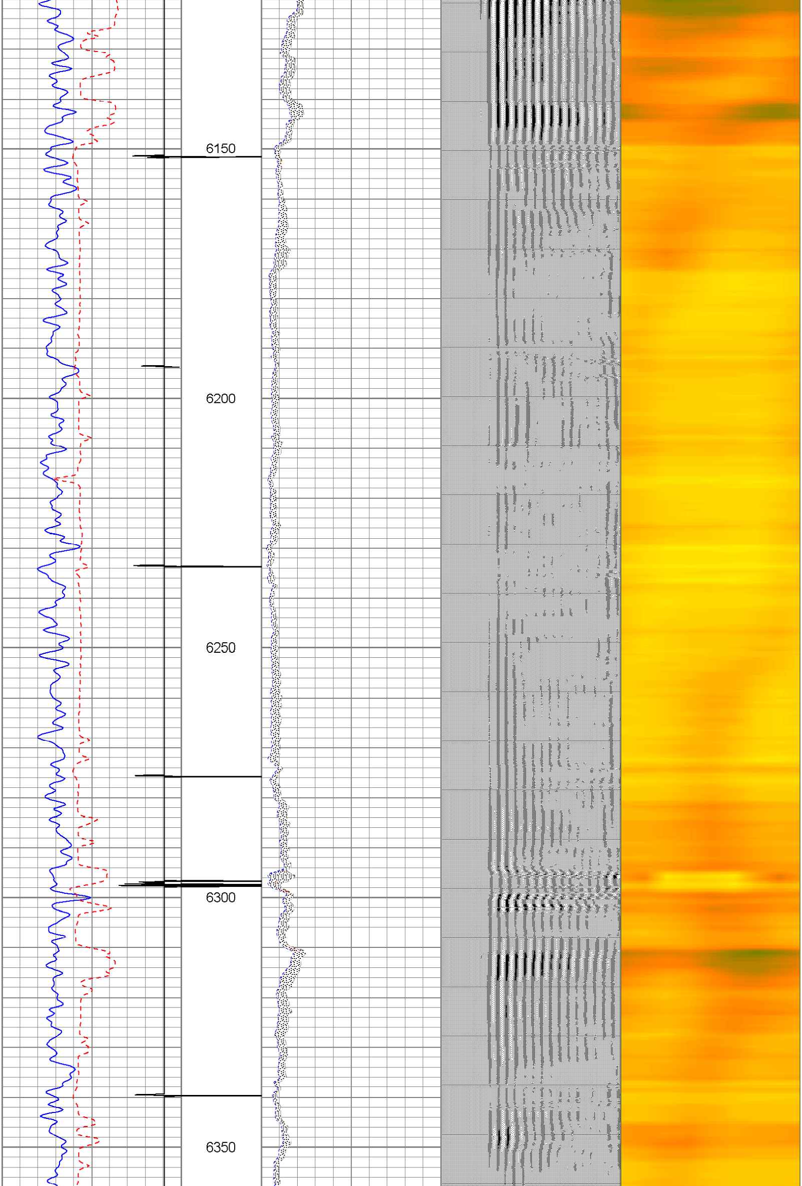

5050
5100
5150
5200

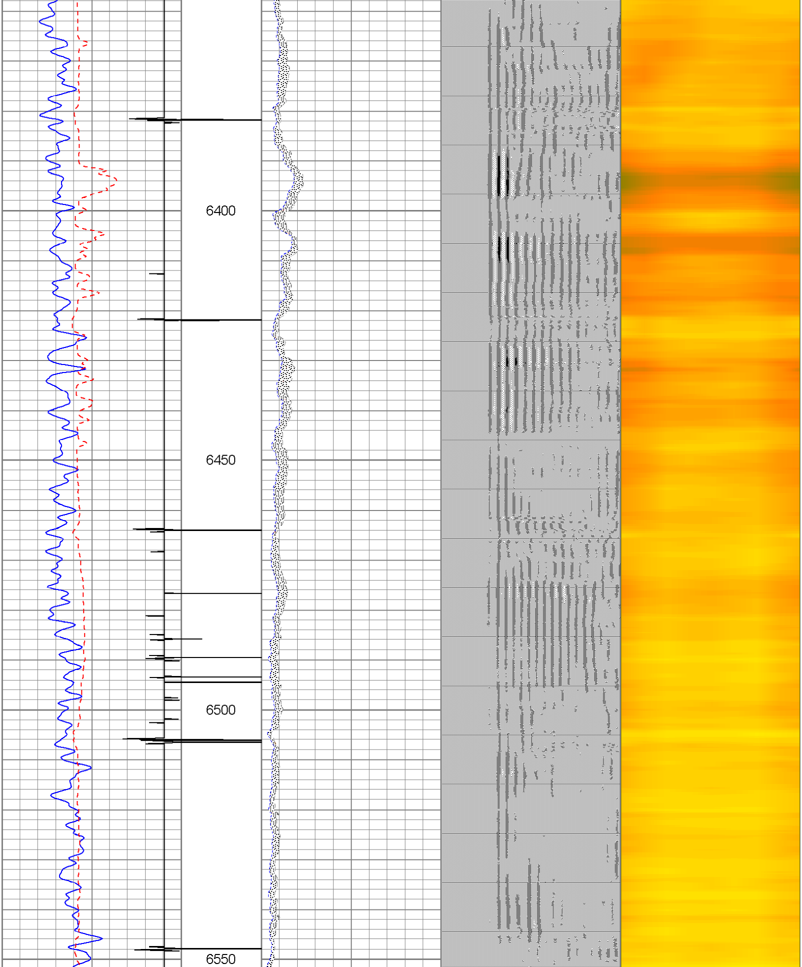

5250
5300
5350
5400
5450

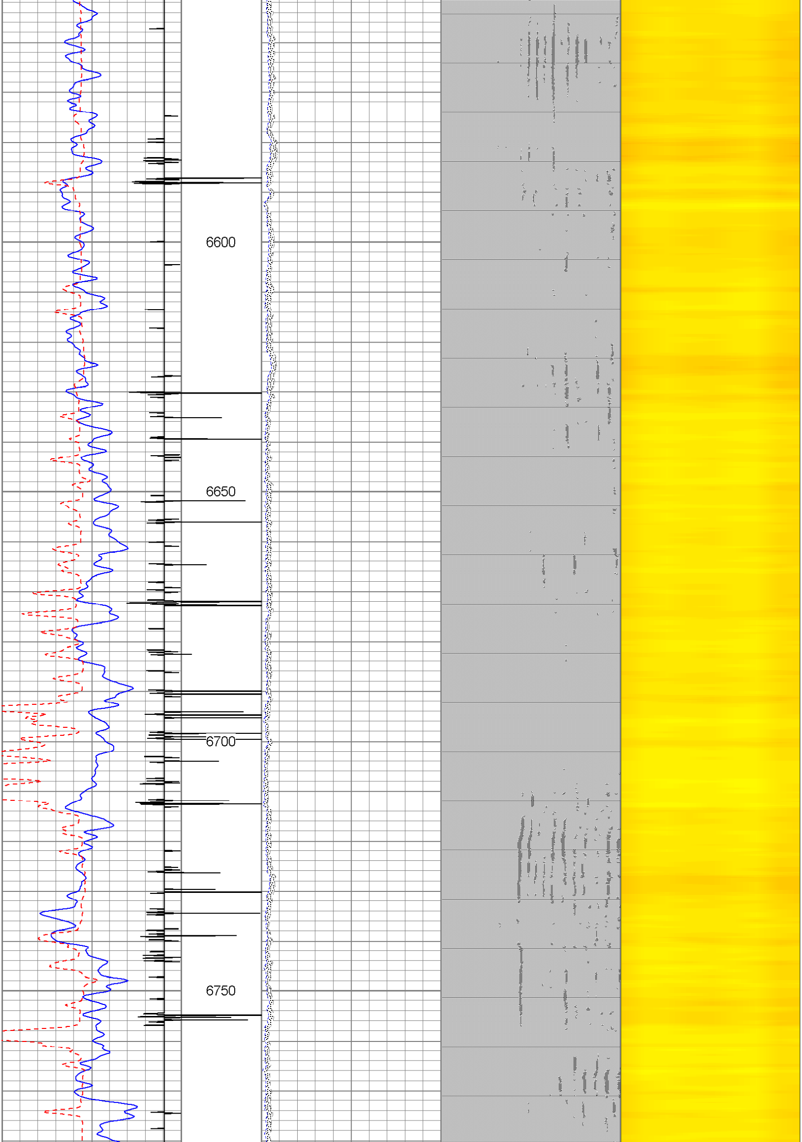

5500
5550
5600
5650

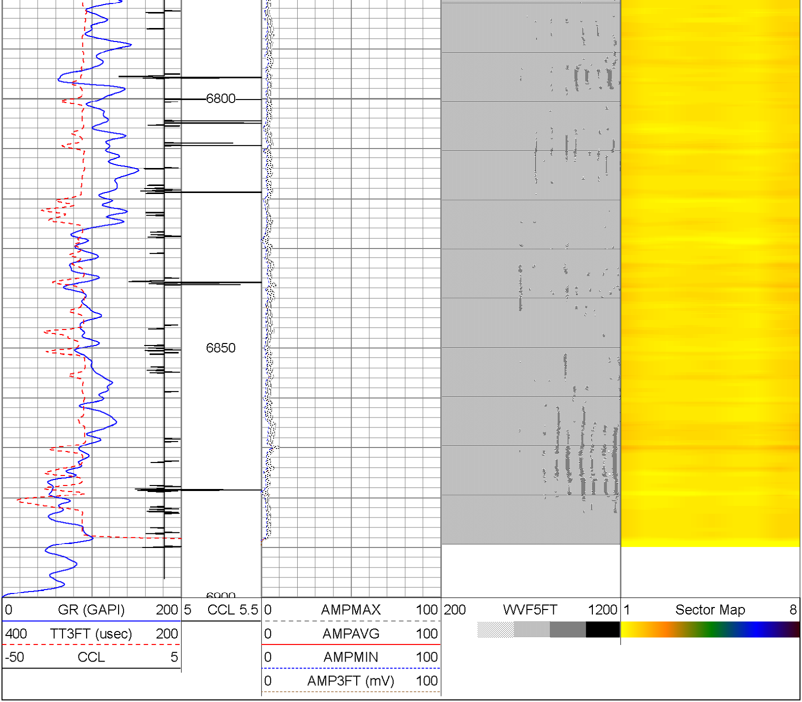

5700
5750
5800
5850


5900
5950
6000
6050
6100


6150
6200
6250
6300
6350


6400
6450
6500
6550


6600
6650
6700
6750


6800
6850
6900
0 GR (GAPI) 200
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