NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND SECTOR VDL

Company NOBLE ENERGY INC.
Well VIGILANT STATE AC16-07
Field WATTENBERG
County WELD
State COLORADO

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Well	VIGILANT STATE AC16-07
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 0512337248

1980' FNL & 1980' FEL
SW/NE

SEC 16 TWP 7N RGE 63W

Other Services

Permanent Datum	GL	Elevation	4850
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4863
D.F. 4862
G.L. 4850

Date	JULY 19, 2013		
Run Number	ONE		
Depth Driller	8966		
Depth Logger	8871		
Bottom Logged Interval	8870		
Top Log Interval	6400		
Open Hole Size	8-3/4		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	273°F		
Estimated Cement Top			
Time Well Ready	BAYOU RIG		
Time Logger on Bottom	2-3/4 PROBE 101020		
Equipment Number	4838		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	OMAR FABELA		

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# L-80	13	8962
Liner				

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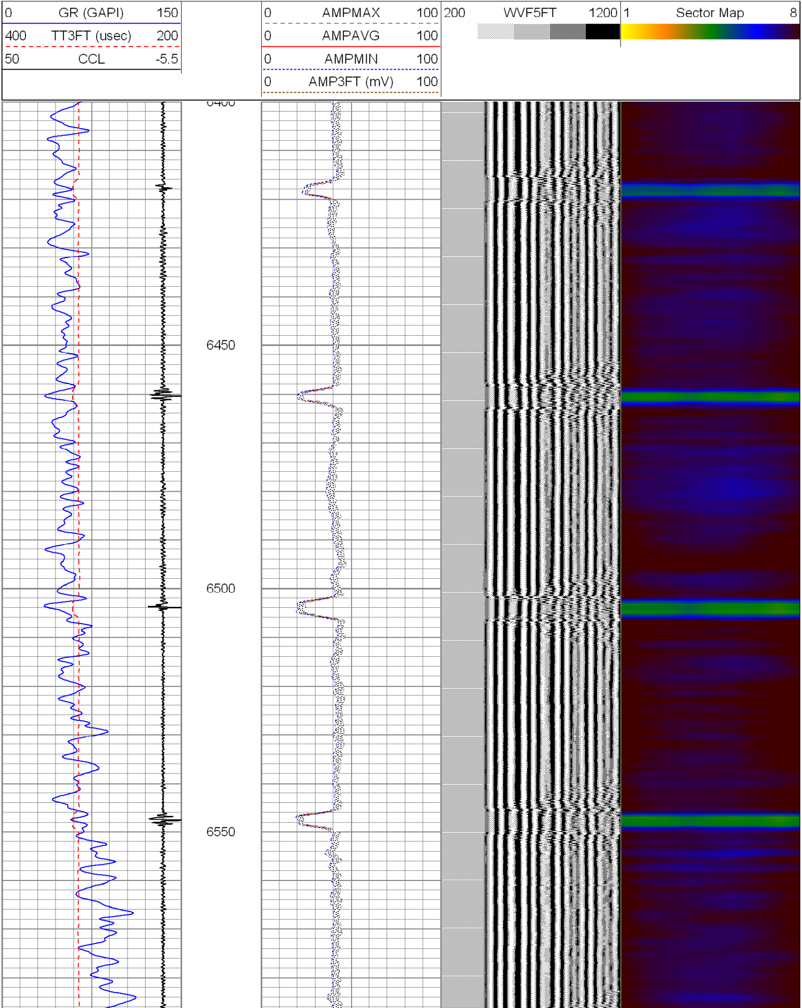
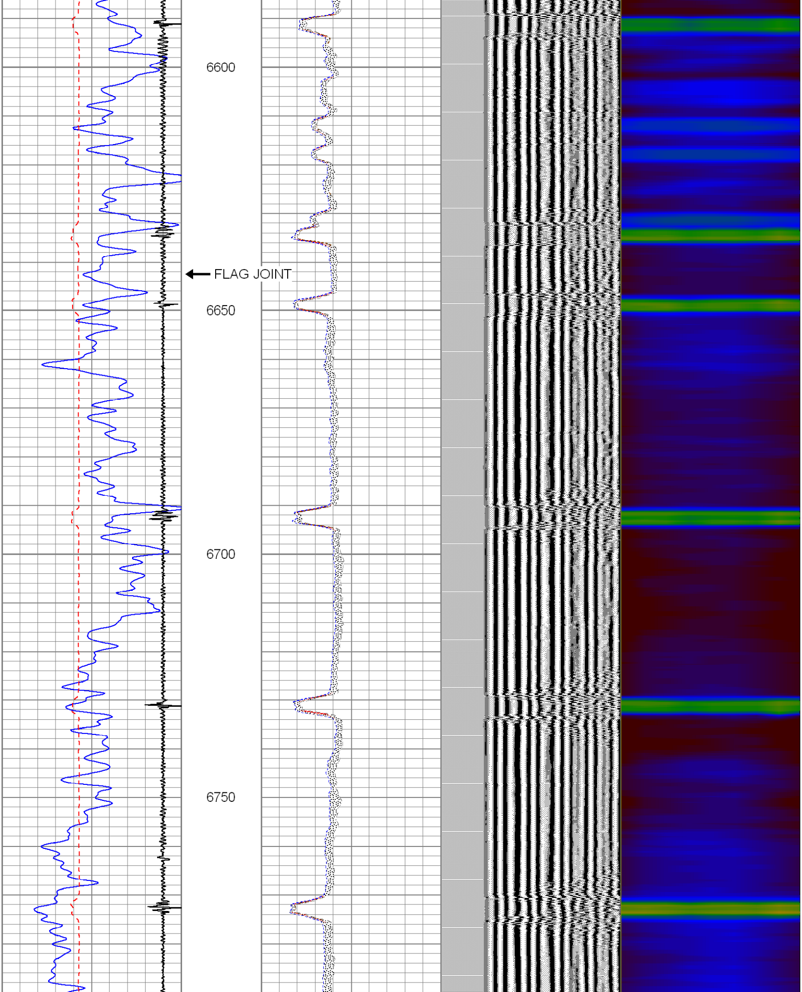
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

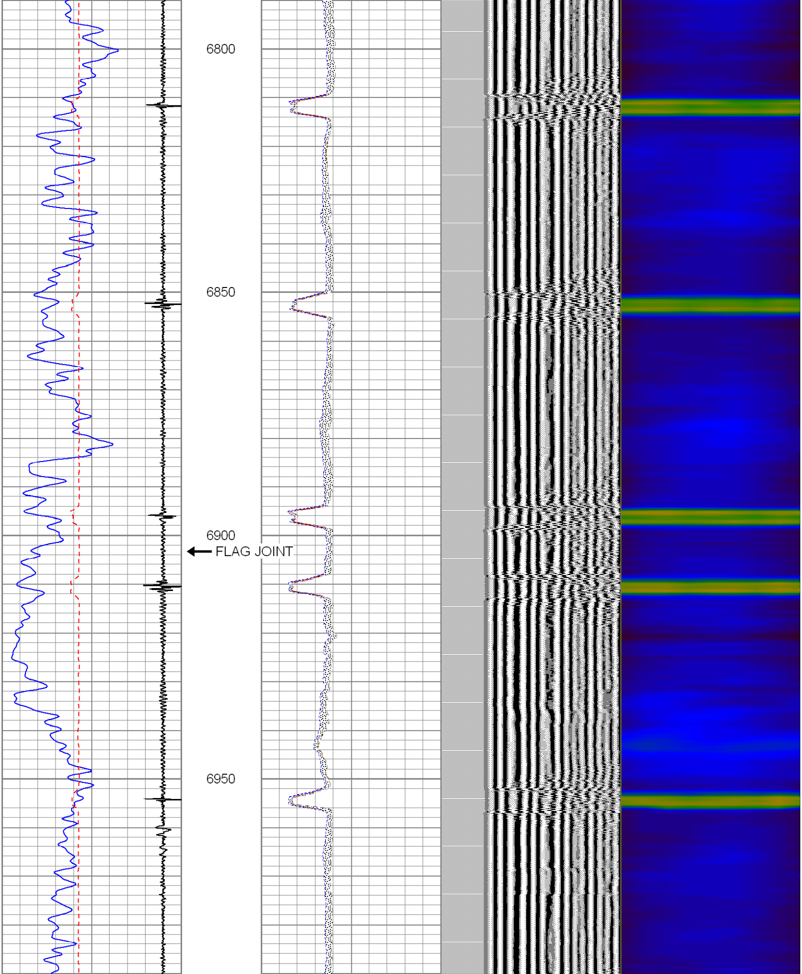
Comments

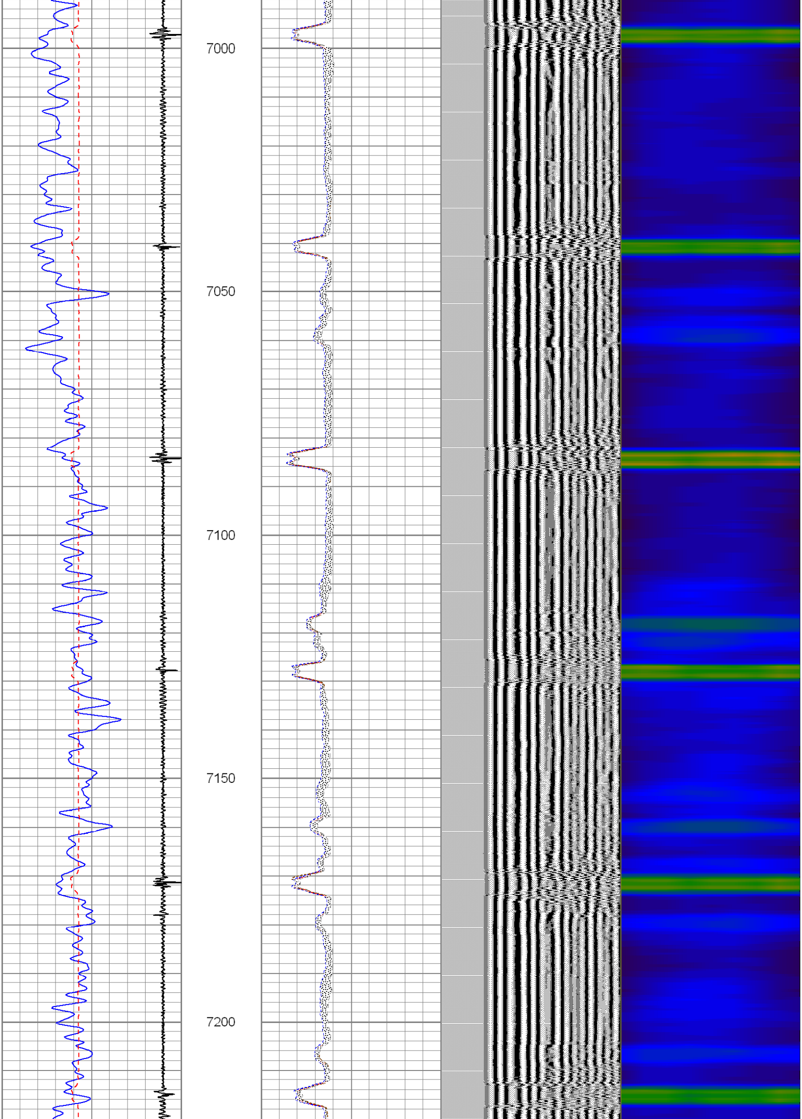
THANK YOU FOR CHOOSING NCPS!!!!
LOG CORRELATED TO HES DUAL SPACED NEUTRON, SPECTRAL DENSITY,
ARRAY COMPENSATED, TRUE RESISTIVITY LOG DATED 08-JUL-13

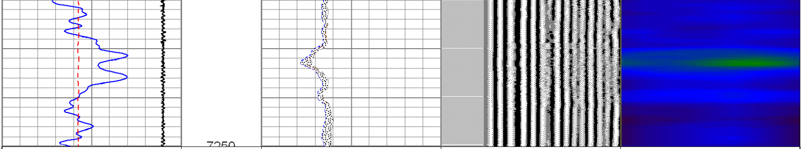
Database File:	cbl noble vigilant state ac16-07 corrected.db
Dataset Pathname:	pass4
Presentation Format:	sector2
Dataset Creation:	Fri Jul 19 08:28:16 2013 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240







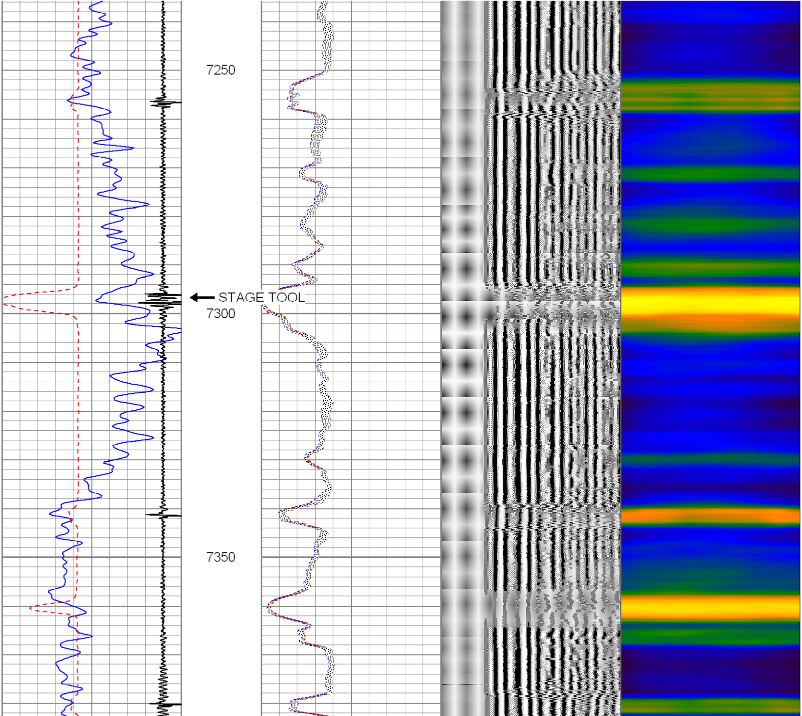


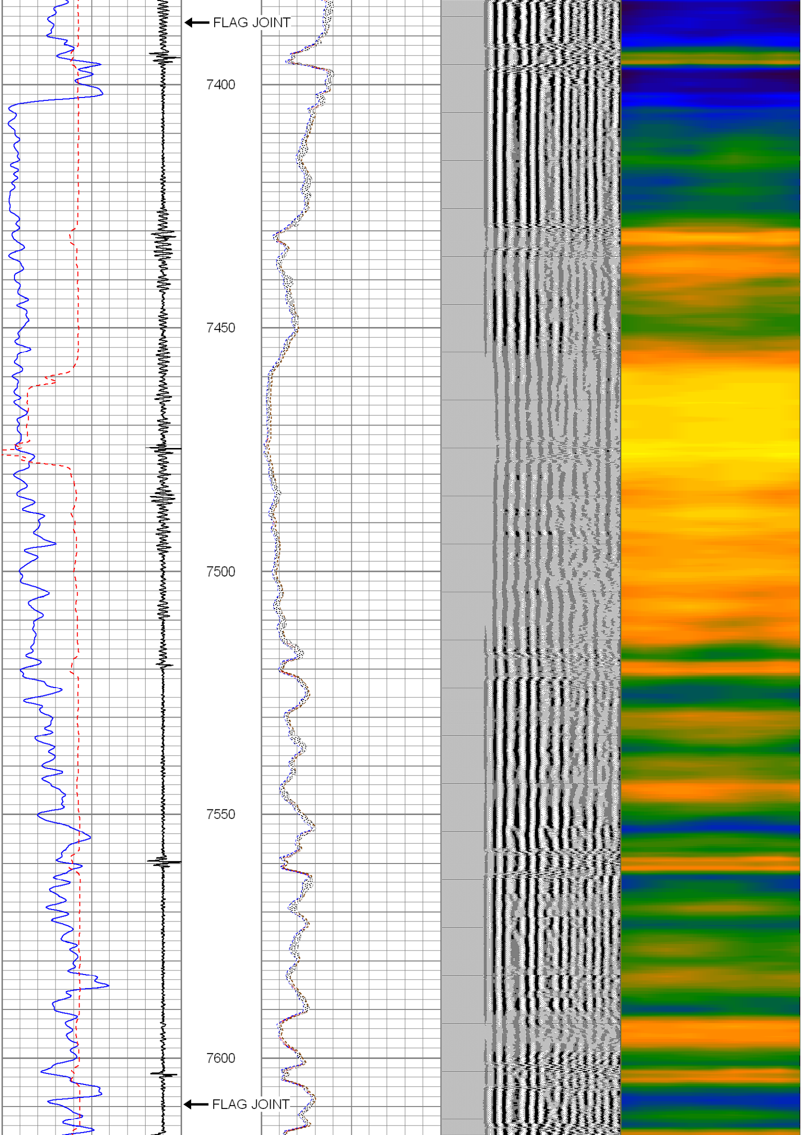


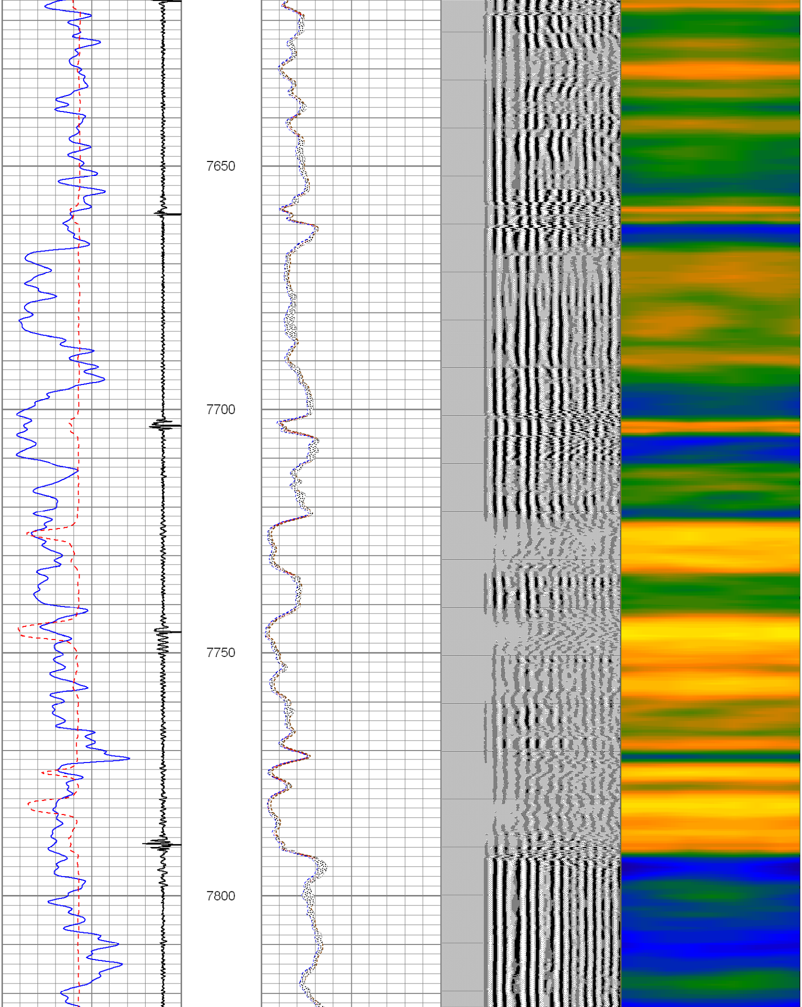
0 GR (GAPI) 150	0 AMPMAX 100	200 WVF5FT 1200
400 TT3FT (usec) 200	0 AMPAVG 100	1 Sector Map 8
50 CCL -5.5	0 AMPMIN 100	
	0 AMP3FT (mV) 100	

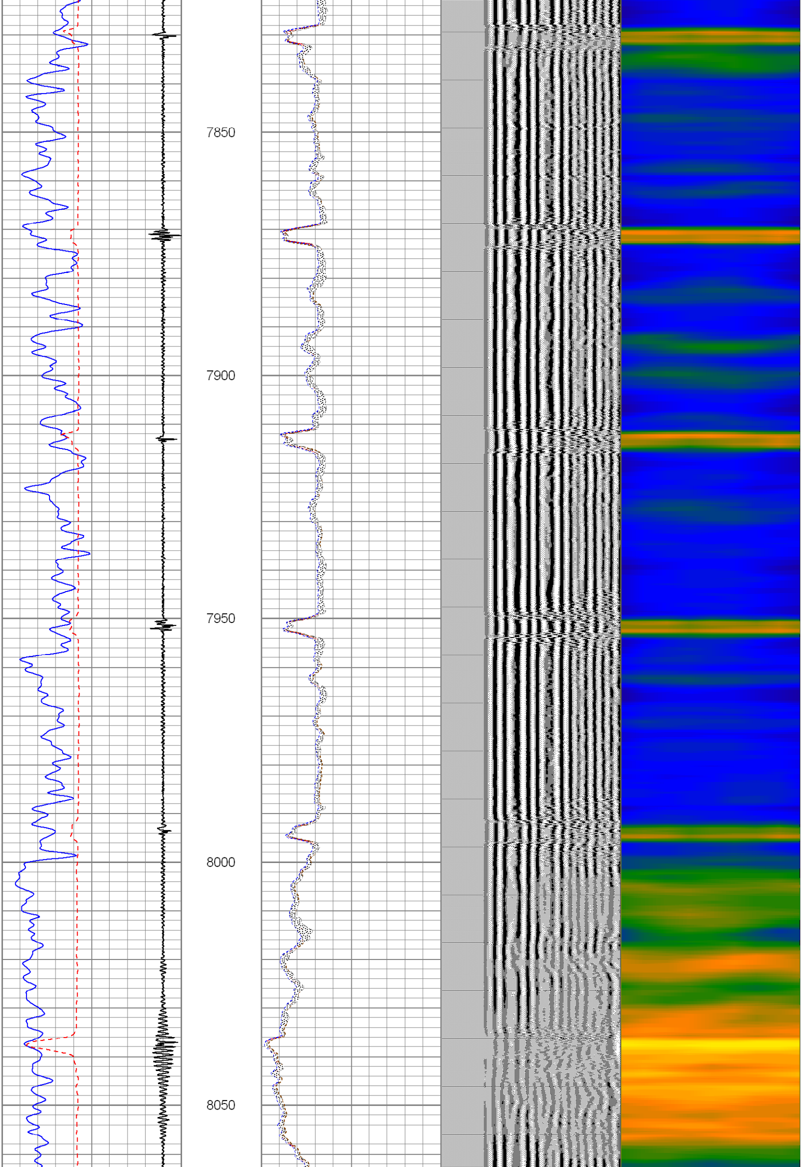
Database File:	cbl noble vigilant state ac16-07 corrected.db
Dataset Pathname:	pass3
Presentation Format:	sector2
Dataset Creation:	Fri Jul 19 08:16:00 2013 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

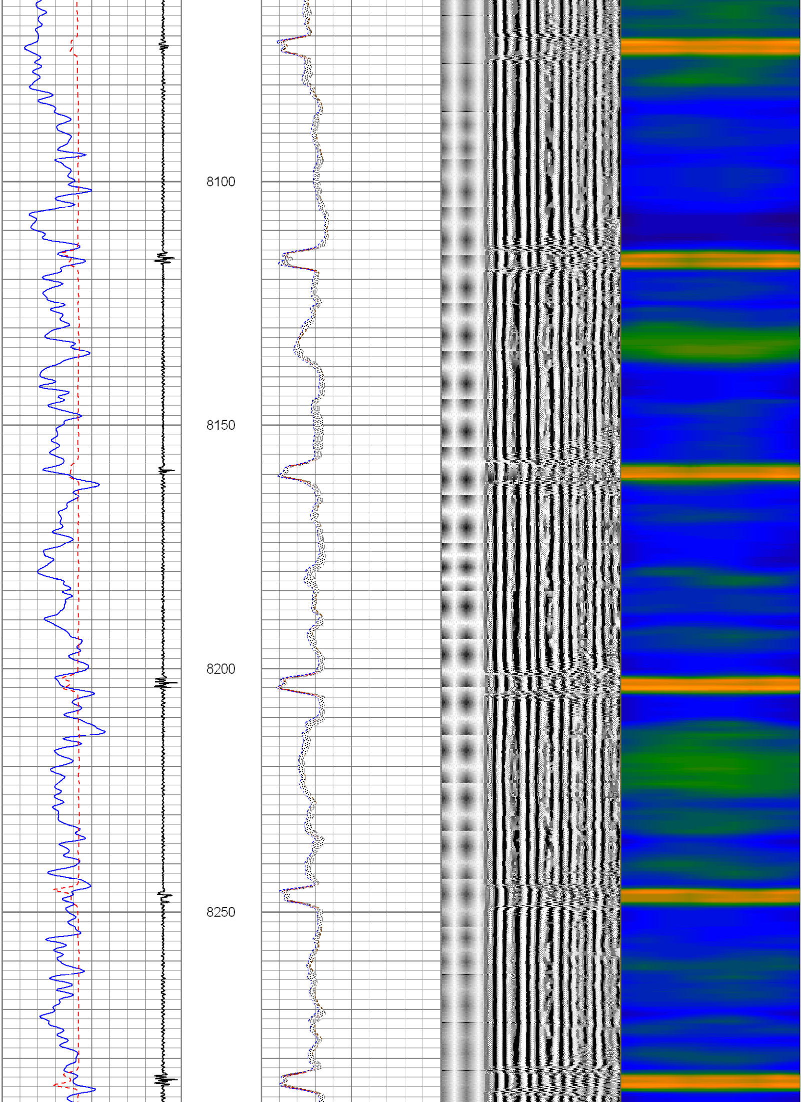
0 GR (GAPI) 150	0 AMPMAX 100	200 WVF5FT 1200
400 TT3FT (usec) 200	0 AMPAVG 100	1 Sector Map 8
50 CCL -5.5	0 AMPMIN 100	
	0 AMP3FT (mV) 100	

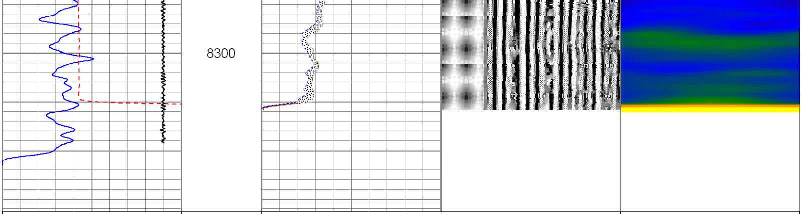






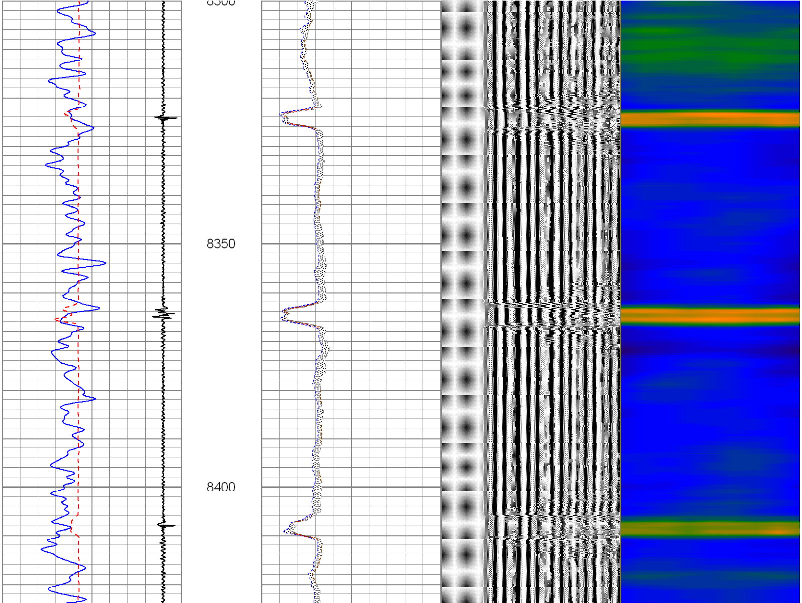
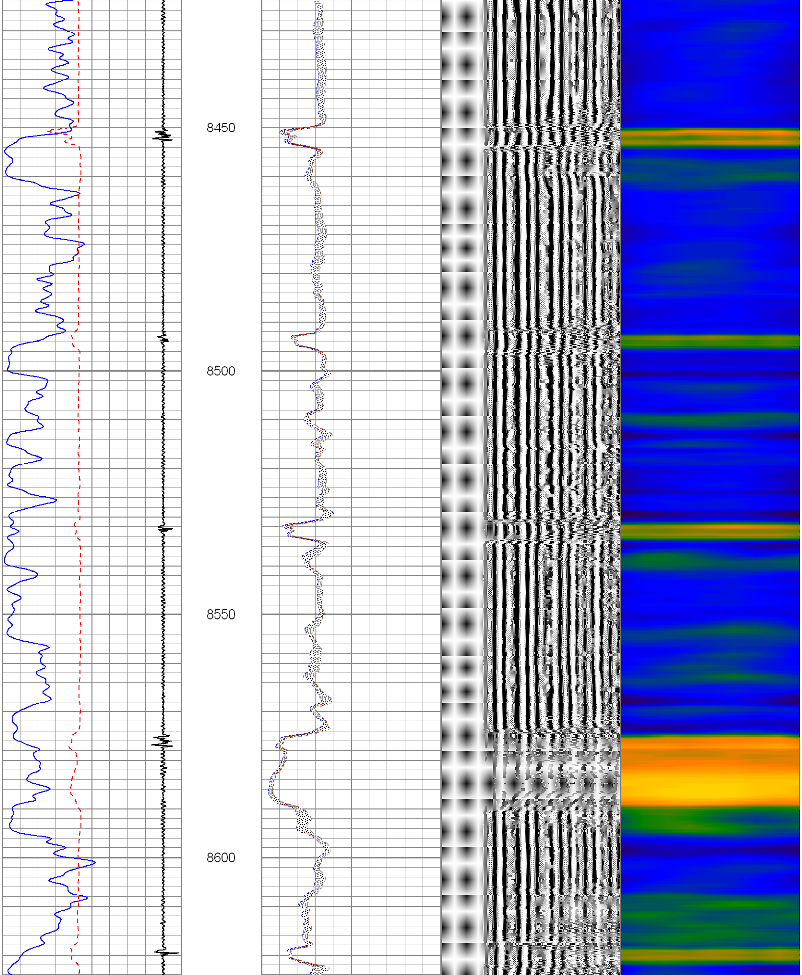
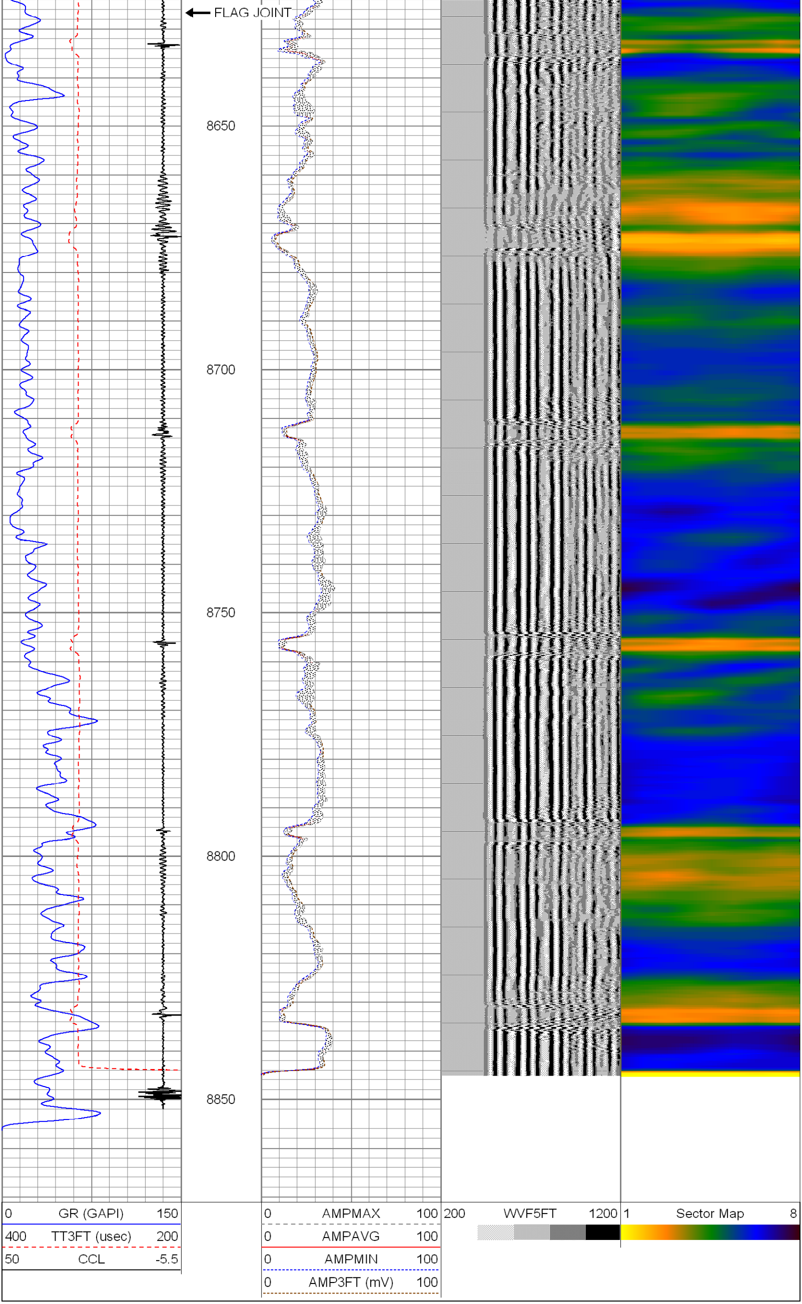






0 GR (GAPI) 150	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

Database File:	cbl noble vigilant state ac16-07 corrected.db
Dataset Pathname:	pass2
Presentation Format:	sector2
Dataset Creation:	Fri Jul 19 08:08:46 2013 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

0 GR (GAPI) 150	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100