SUPERIOR WELL SERVICES

Company	Noble Energy INC.
Well	SHERWOOD L 30-32D
Field	Wattenberg
County	Weld
State	Colorado

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company Noble Energy INC.
Well SHERWOOD L 30-32D
Field Wattenberg
County Weld State Colorado

Location: API #: 051233112500
SHL: 729' FNL & 822' FWL NW NW
BHL: 2555' FSL & 75' FWL NW SW
LAT/LONG: 40.20081 DEG / -104.82713
SEC 30 TWP 3N RGE 66W

Other Services

Permanent Datum GL Elevation 4820
Log Measured From KB 15'
Drilling Measured From KB

Elevation
K.B. 4835
D.F. 4835
G.L. 4820

Date	December 3, 2010
Run Number	One
Depth Driller	8367
Depth Logger	8297
Bottom Logged Interval	8296
Top Log Interval	1320
Casing Size	4 1/2"
Type Fluid	Water
Max. Recorded Temp.	276 deg F
Estimated Cement Top	1490
Time Well Ready	Mast Truck
Time Logger On Bottom	AM
Unit Number	3344
Tool Size / ID Number	1 11/16 Tool 1 BLK
Location	Platteville, CO
Recorded By	K. Monaghan
Witnessed By	M. Trimble

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24 lb/ft J 55	Surface	606.6
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	8353.8
Liner				

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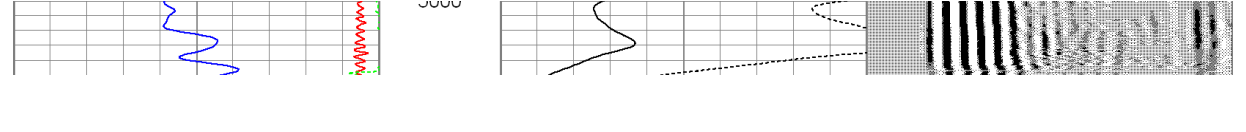
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

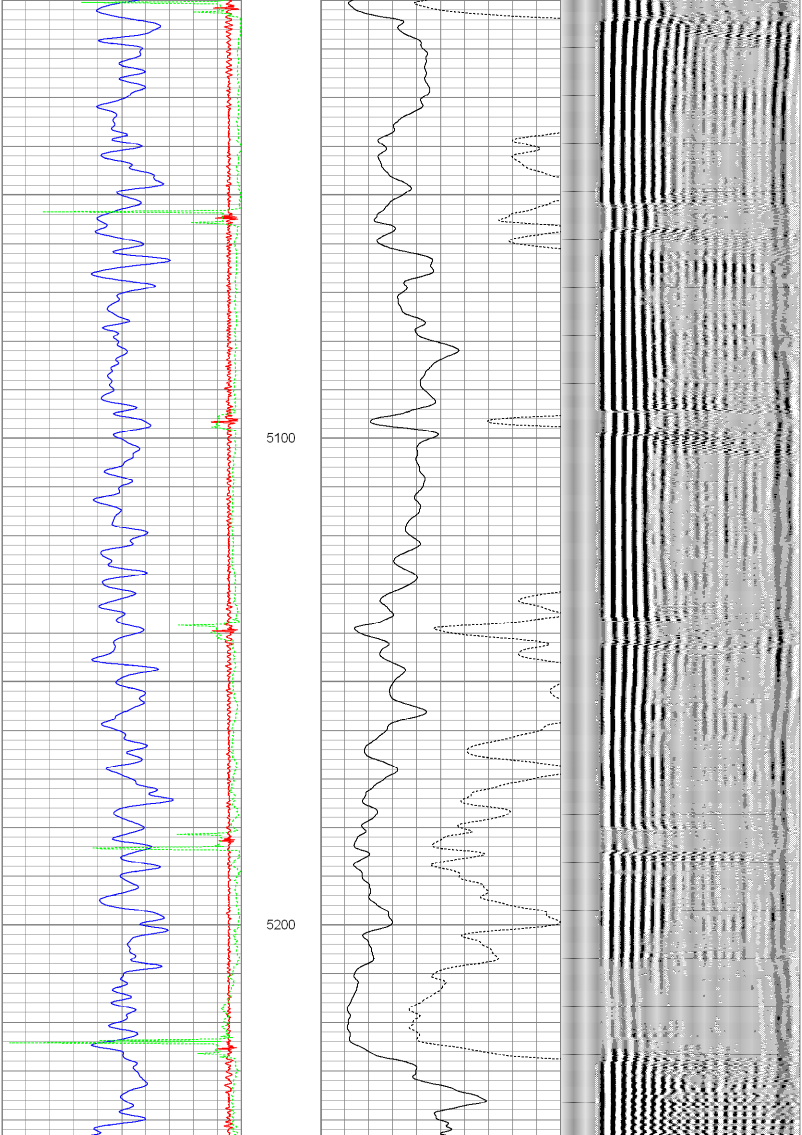
Comments

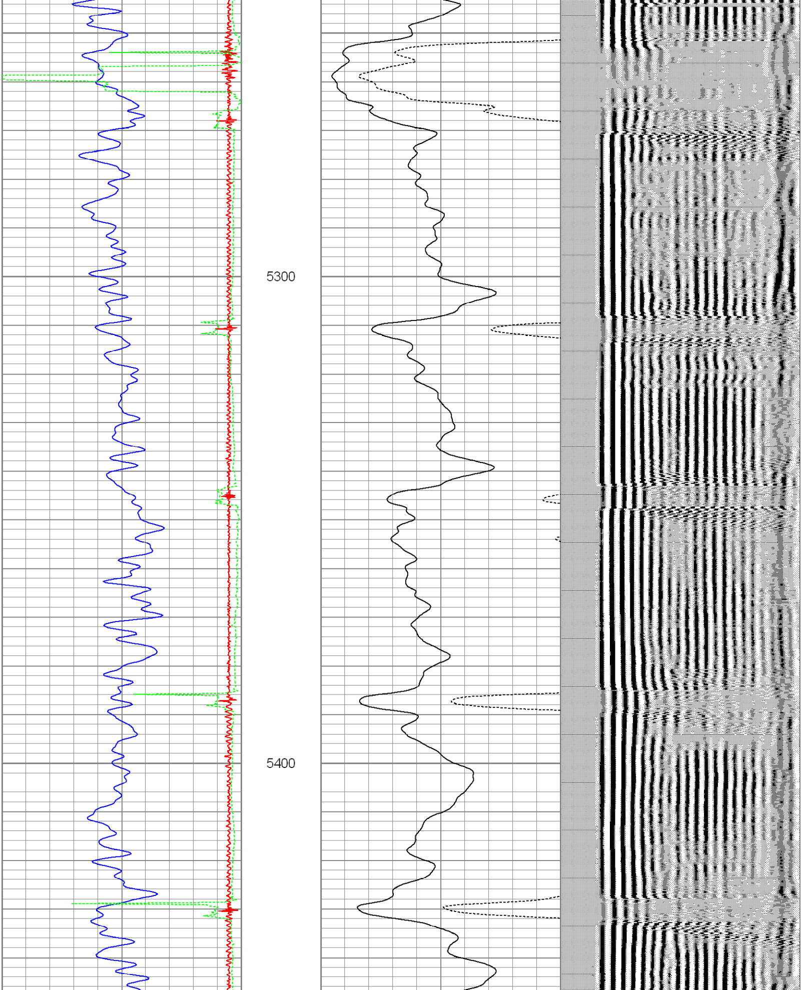
Thank You For Choosing Superior Well Services!!!
API# 05-123-331125-00
Correlated to H.E.S's
Spectral Density / Dual Spac3ed Neutron / Array Compensated / True Resistivity / Gamma Ray
Dated: November 8, 2010
Directions: HWY 85 & HWY 66, W TO 25 1/2, S 1/2, W INTO.
2ND WELL FROM EAST ON 5 WELL PAD, WEST OF SHERWOOD L 30-28D

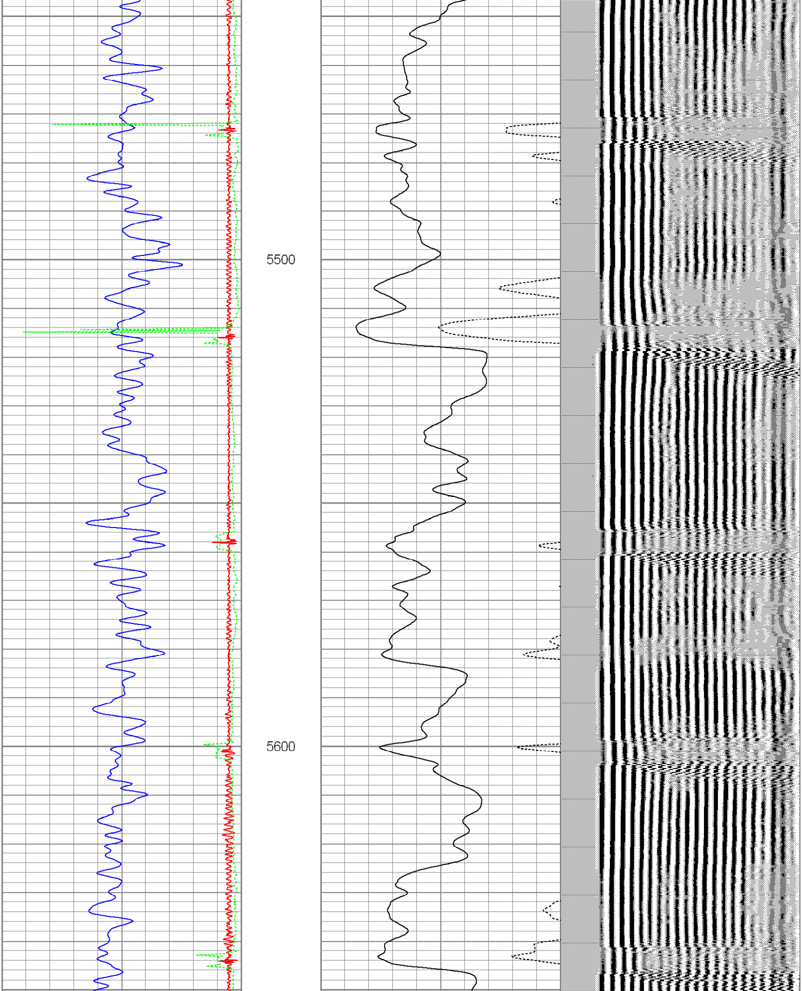
Database File:	cblsherwood l30-32d.db
Dataset Pathname:	pass4
Presentation Format:	nuexcbl
Dataset Creation:	Fri Dec 03 11:46:51 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

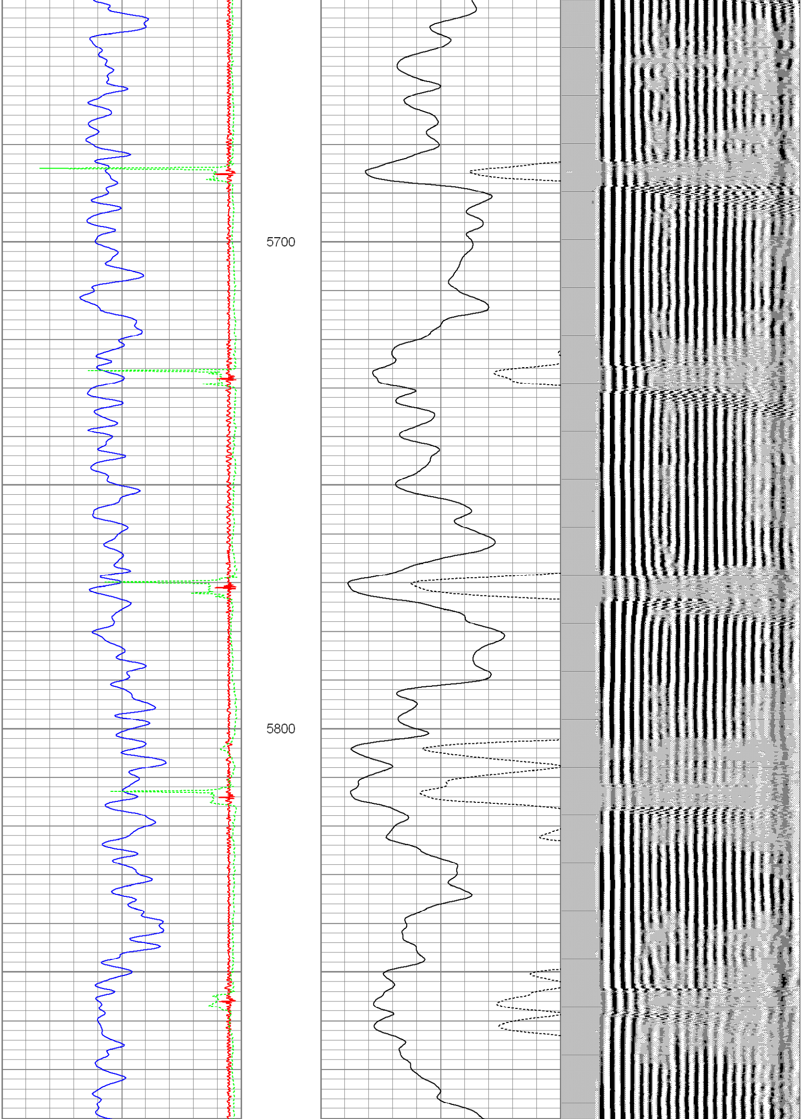
Database File:	cblsherwood l30-32d.db
Dataset Pathname:	pass3
Presentation Format:	nuexcbl
Dataset Creation:	Fri Dec 03 11:21:21 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

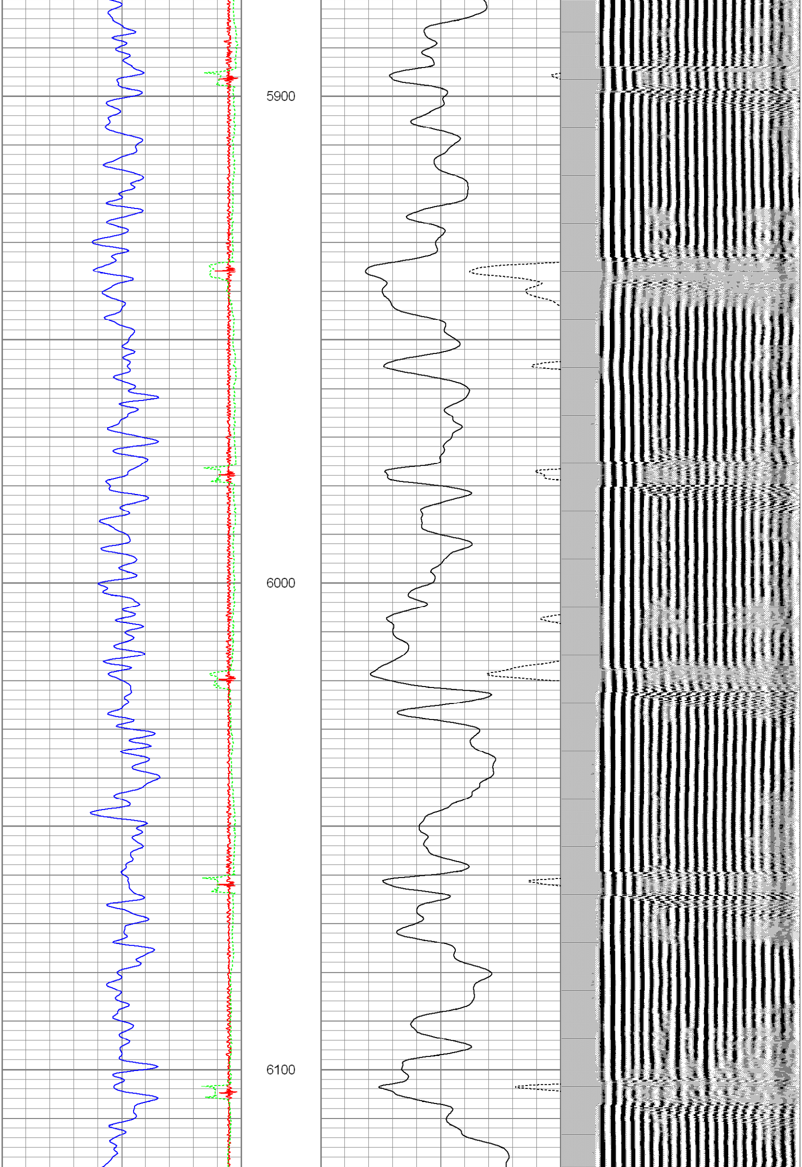


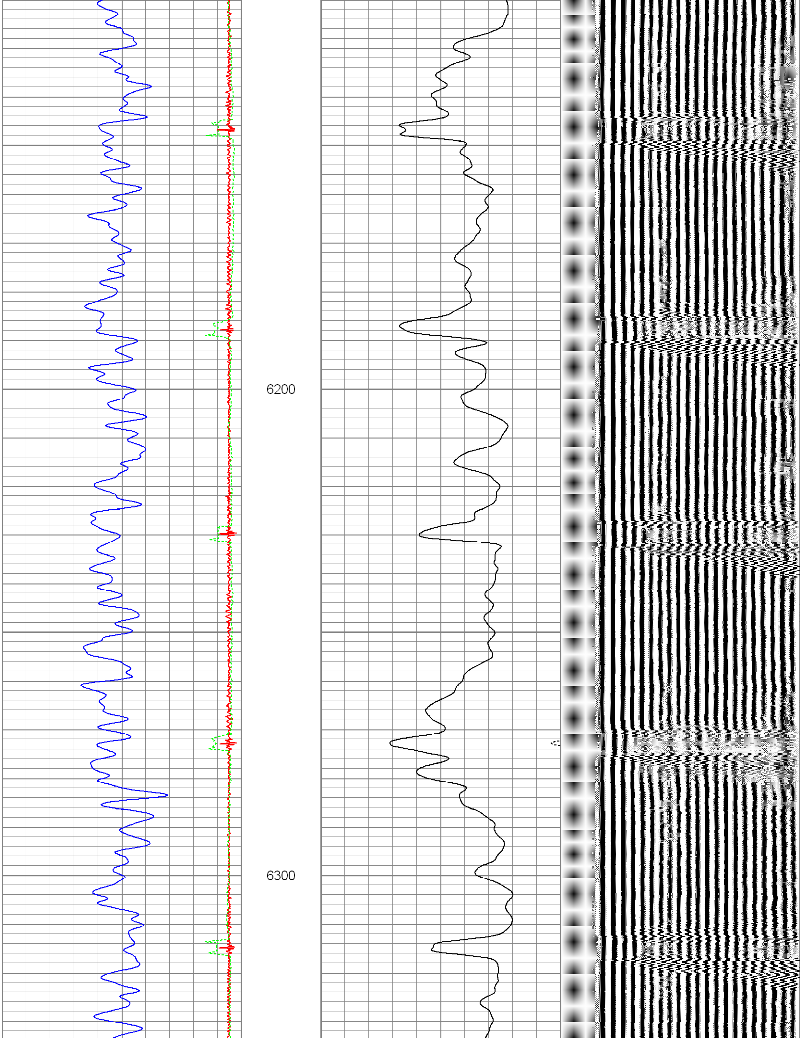


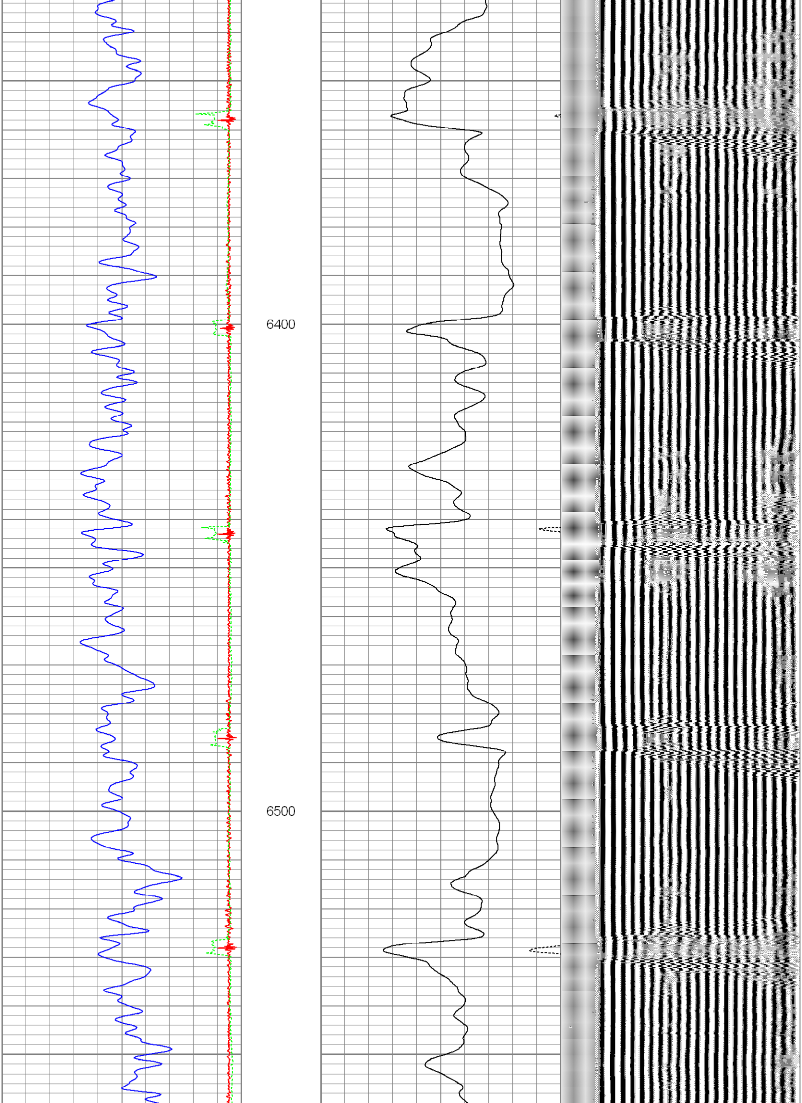


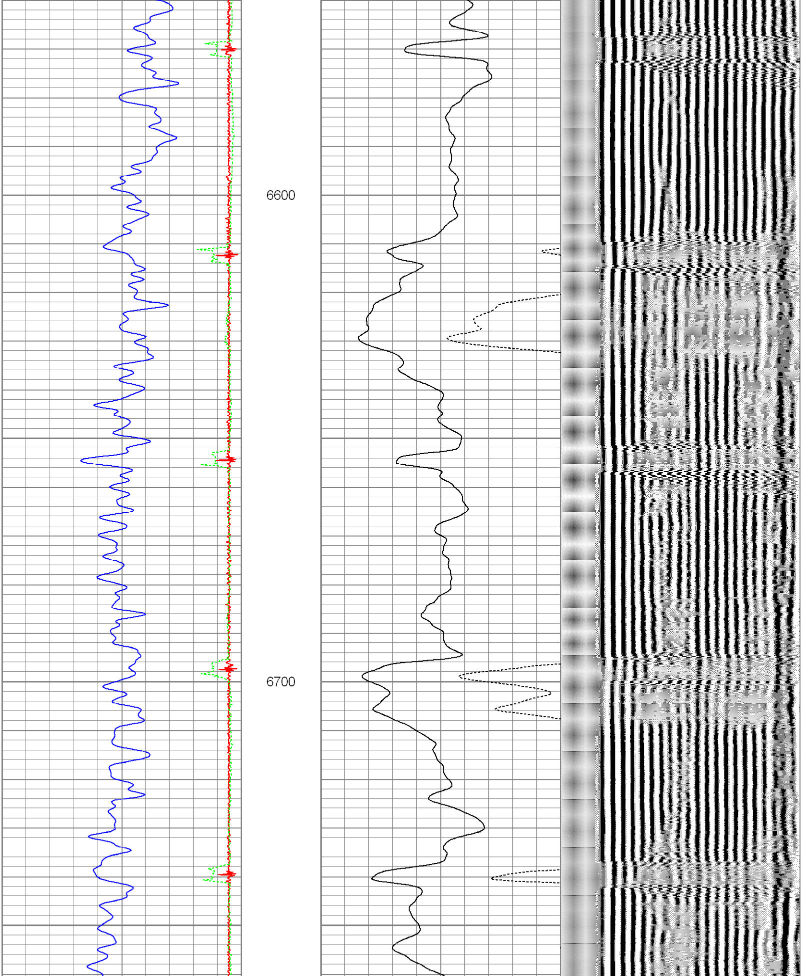


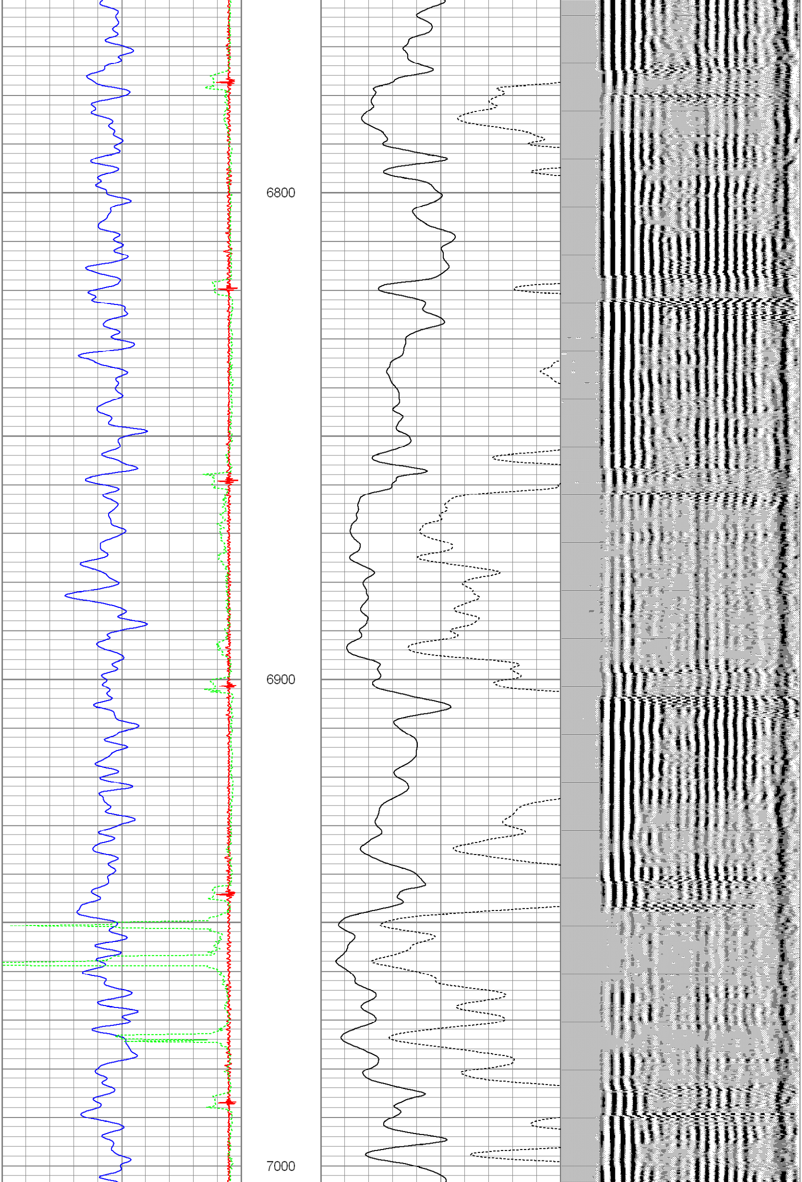


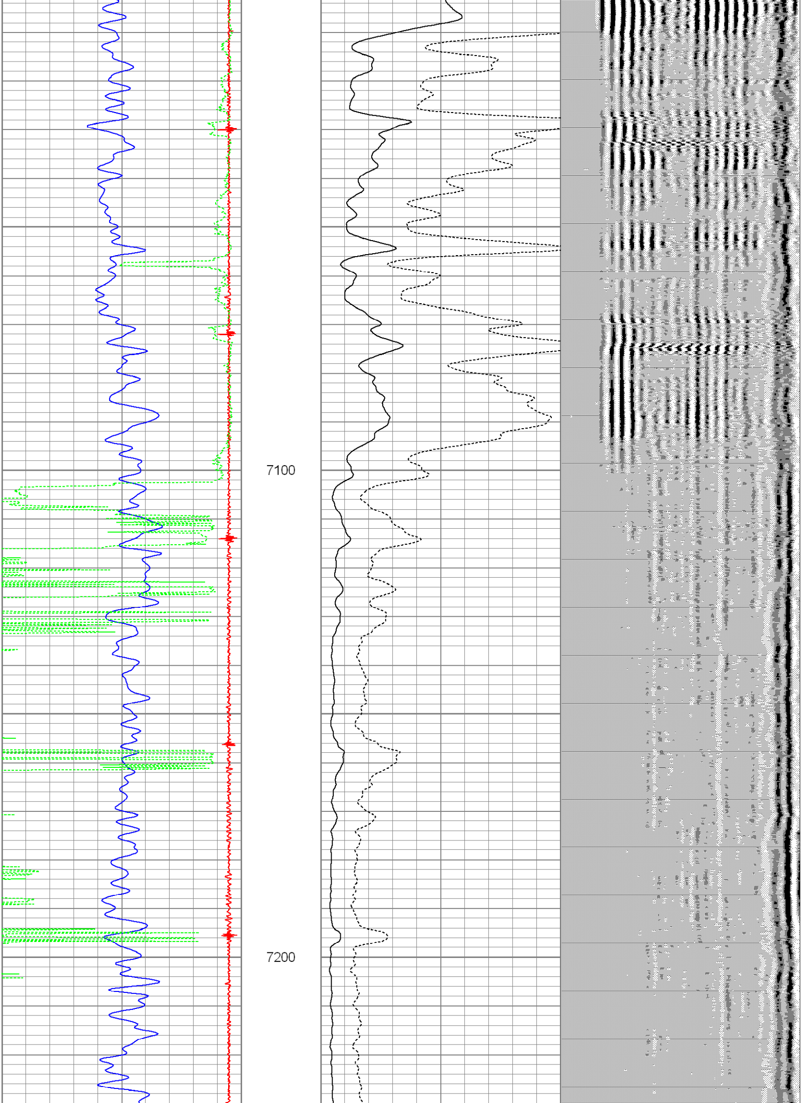


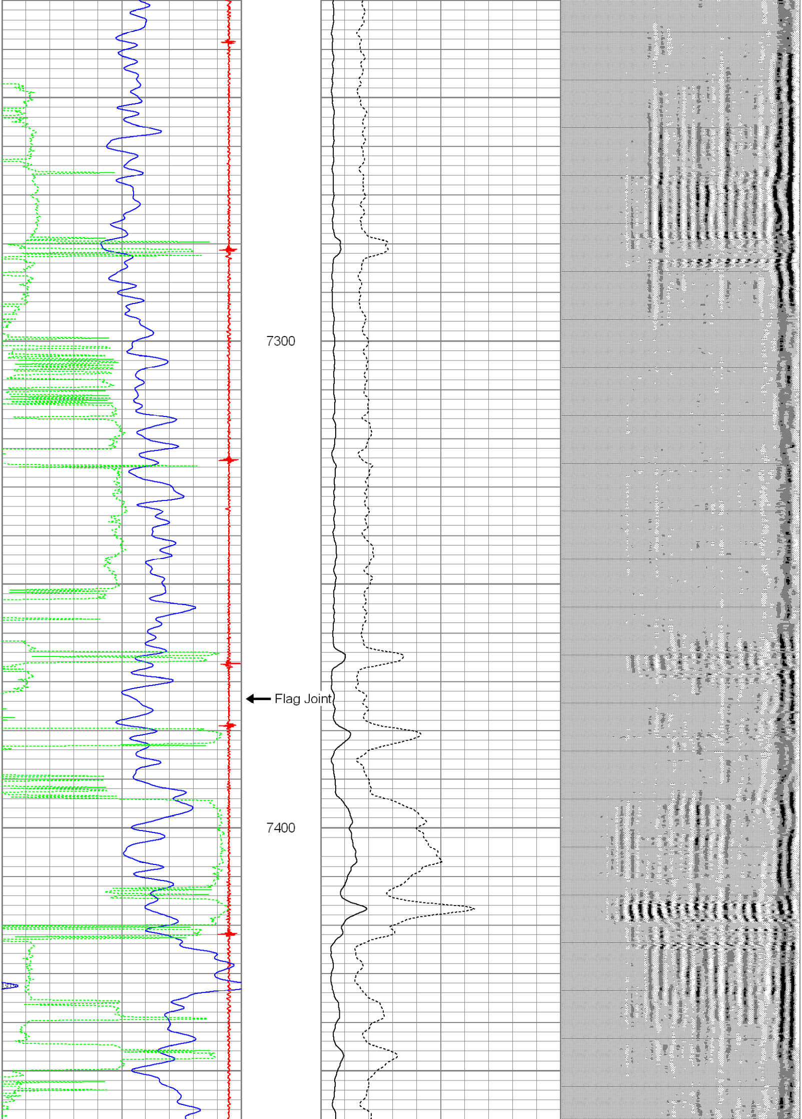


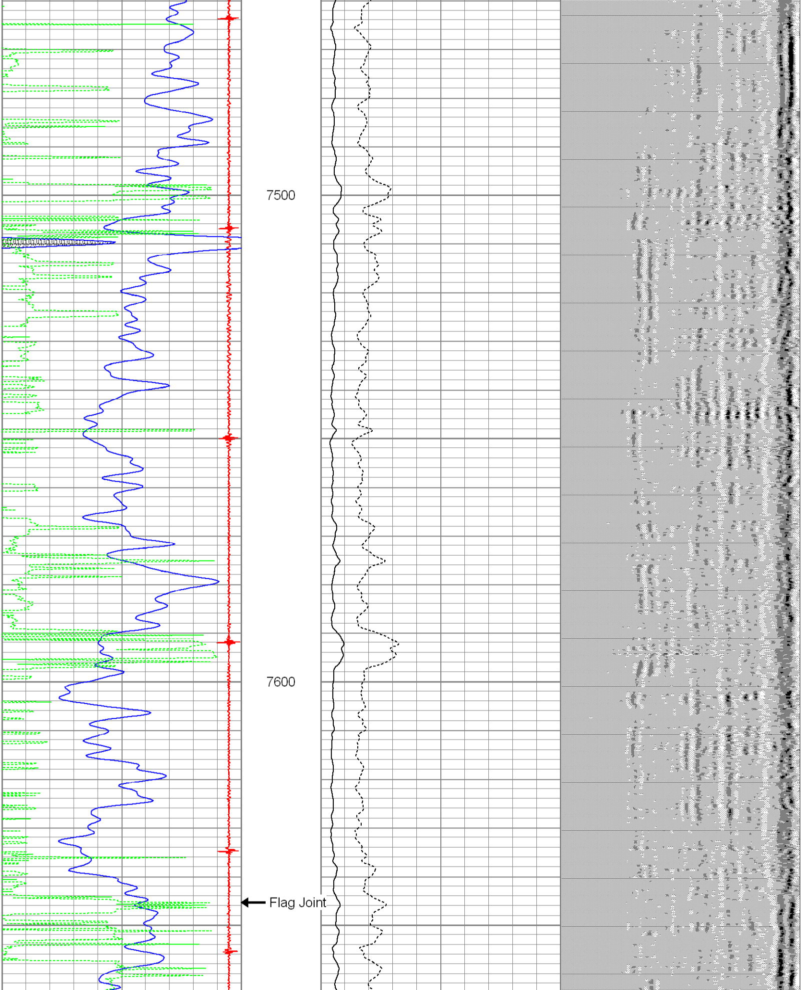


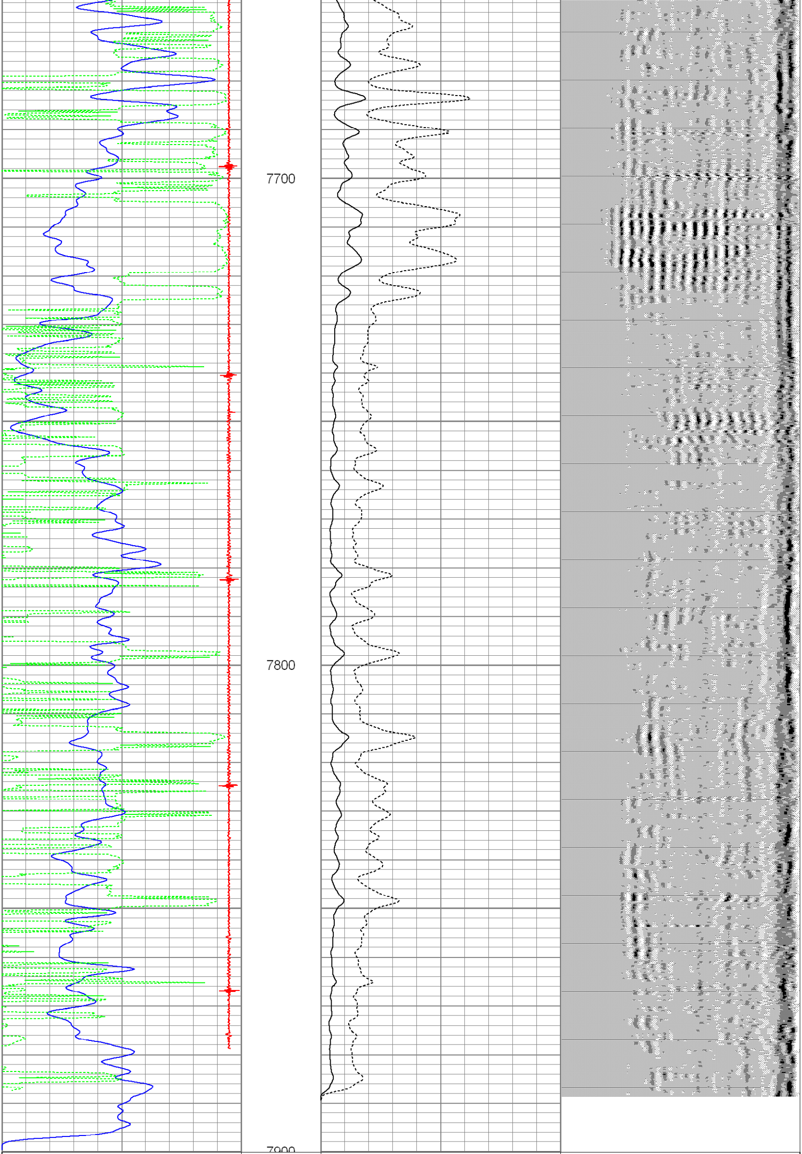








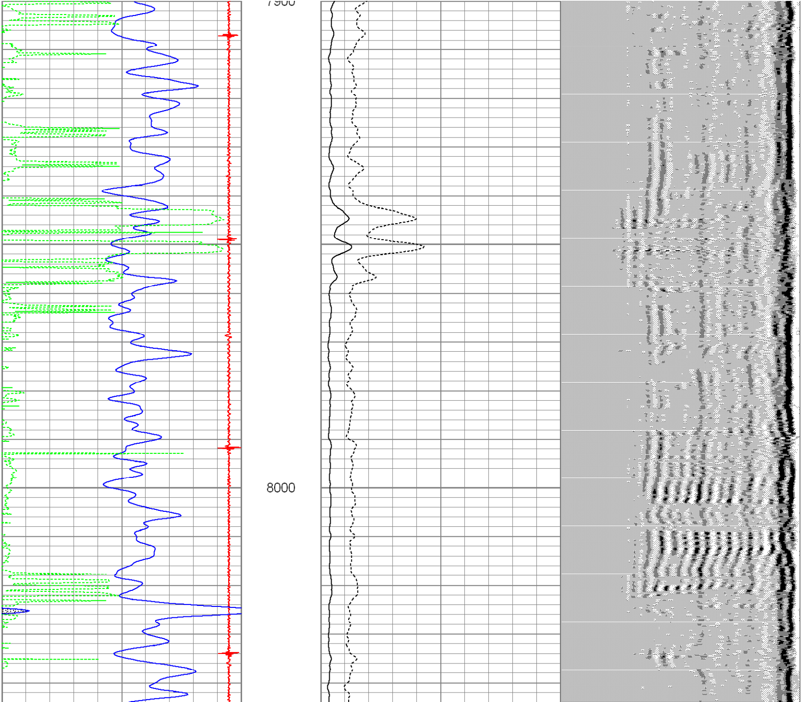


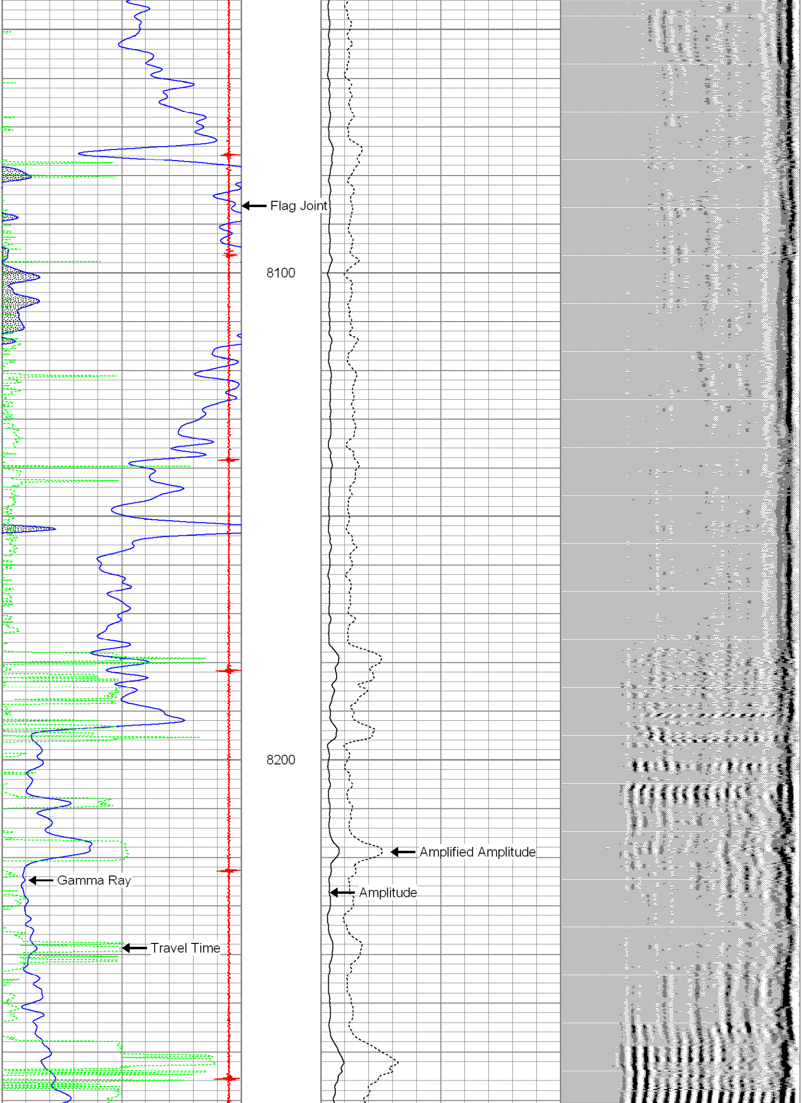


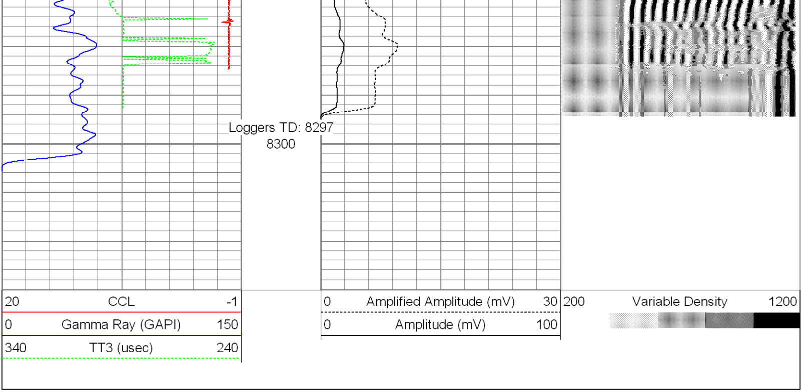
20 CCL -1
0 Gamma Ray (GAPI) 150
340 TT3 (usec) 240
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200

Database File:	cblsherwood l30-32d.db
Dataset Pathname:	pass2
Presentation Format:	nuexcbl
Dataset Creation:	Fri Dec 03 11:15:50 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

20 CCL -1
0 Gamma Ray (GAPI) 150
340 TT3 (usec) 240
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200







Calibration Report

Database File: cblsherwood l30-32d.db
Dataset Pathname: pass4
Dataset Creation: Fri Dec 03 11:46:51 2010 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Fri Dec 03 12:09:49 2010	
Calibrator Value:	1.8	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Fri Dec 03 10:53:20 2010		
Depth:	340.575	ft	
Casing Diameter:	4.5	in	

	3' Spacing	5' Spacing	
Signal Zero:	0.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0119873	0.0130615	V
Reading in Free Pipe:	2.49878	2.49878	V
Gain:	32.4499	32.6651	
Offset:	0.111013	-0.426655	