NABORS

COMPLETION & PRODUCTION SERVICES CO.

Gamma Ray,
Cement Bond,
Variable Density,
CCL

Company	Noble Energy
Well	Thomson B 12-12
Field	Wattenberg
County	Weld
State	Colo
Country	USA

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Location: API # : 0512319265

2185' FSL & 698' FWL
NW / SW

SEC 12 TWP 5N RGE 64W

Other Services

Permanent Datum	Ground Level	Elevation	4598'
Log Measured From	Kelley Bushing		
Drilling Measured From	Kelley Bushing		

Elevation
K.B. 4610'
D.F. 4609'
G.L. 4598'

Date	June 15, 2013		
Run Number	1		
Depth Driller	6884'		
Depth Logger	2500'		
Bottom Logged Interval	2500'-0'		
Top Log Interval			
Open Hole Size			
Type Fluid	water		
Density / Viscosity			
Max. Recorded Temp.	n/a		
Estimated Cement Top			
Time Well Ready			
Time Logger on Bottom			
Equipment Number	3312 1 11/16 tit		
Location	WCR59+60,S1/10,E2/10into		
Recorded By	Jake Meisner		
Witnessed By	Ryan Beam		

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	3.5"			
Liner				

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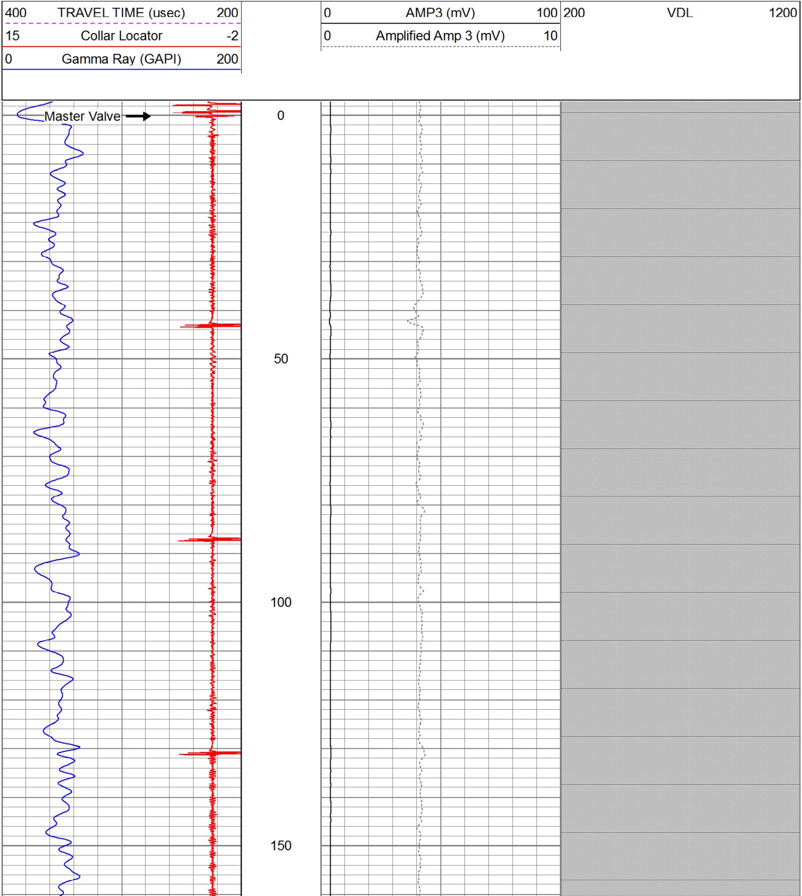
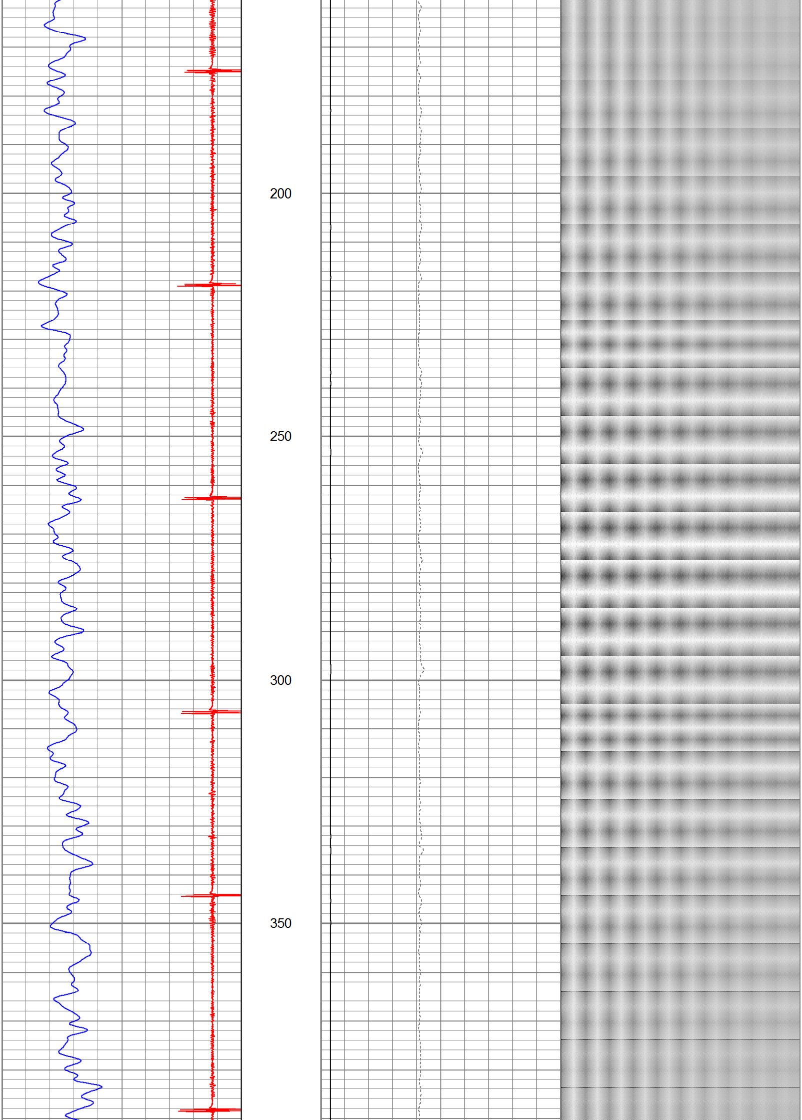
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

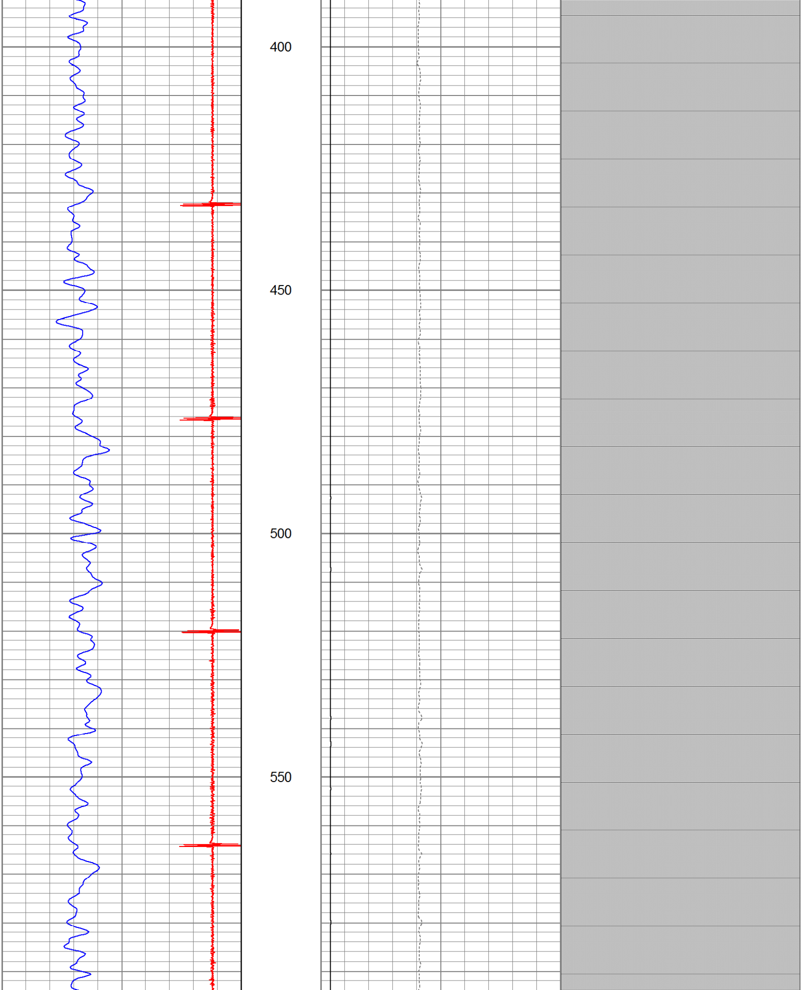
Comments

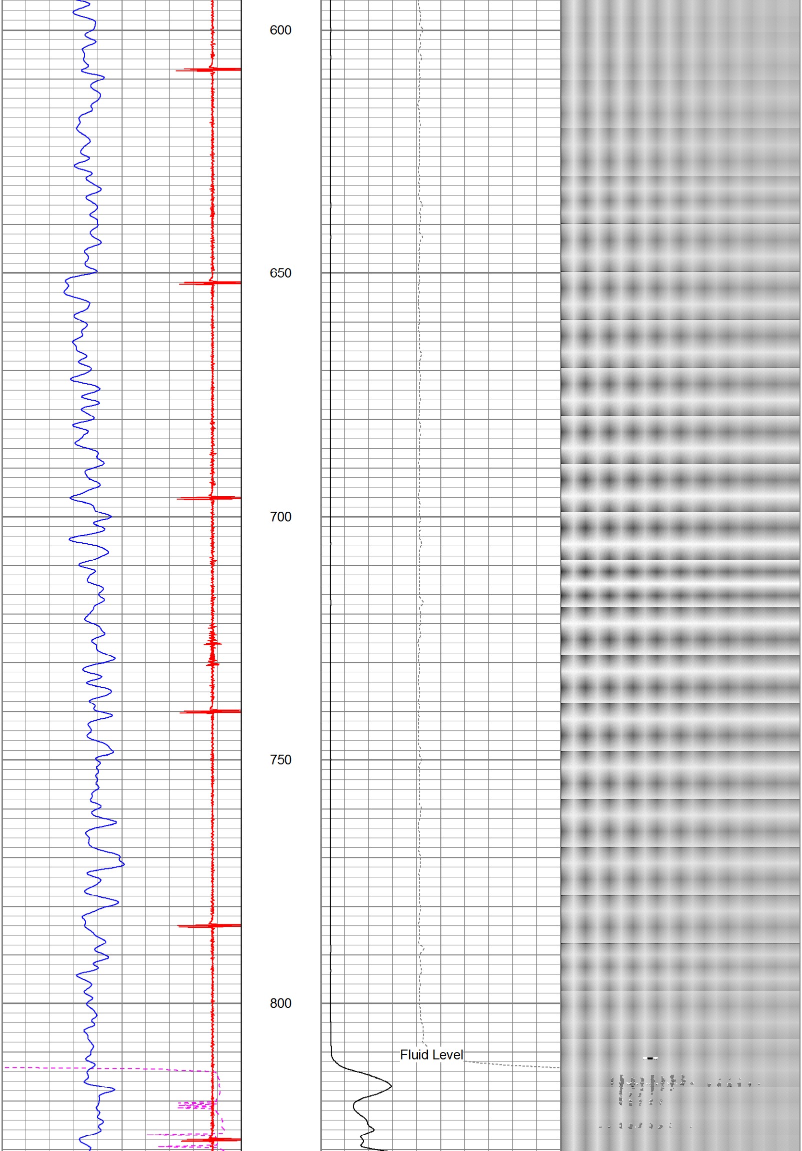
Thank You For Using Nabors!

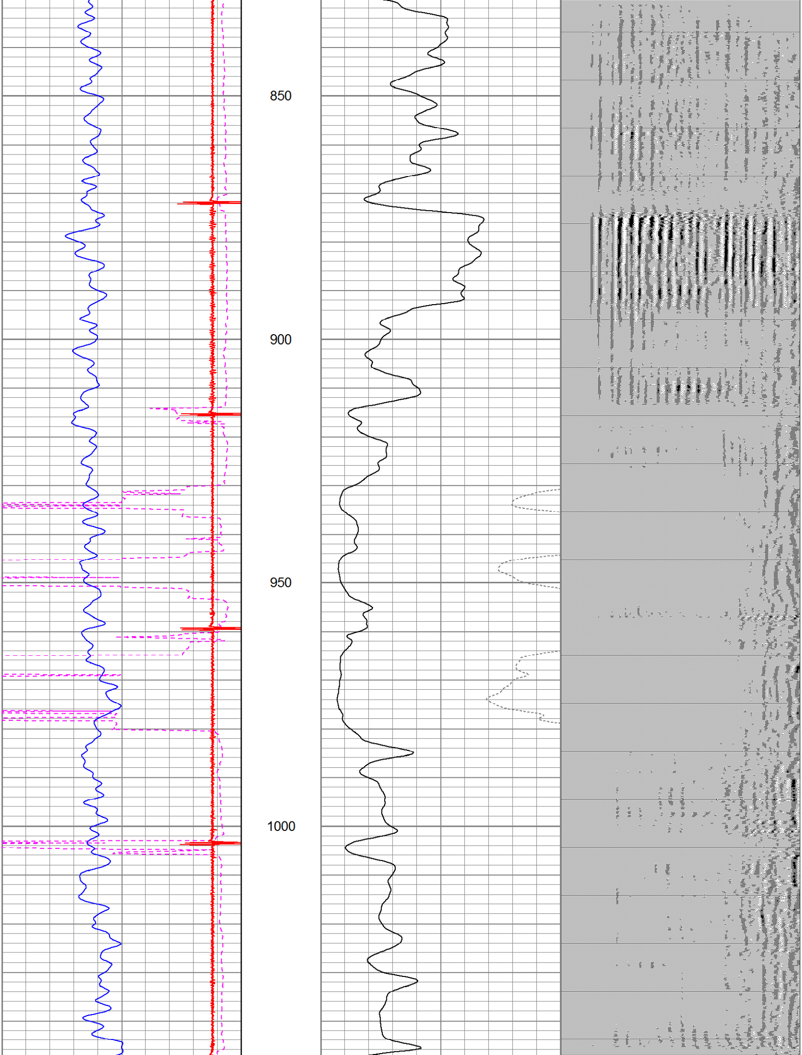
Database File: nbl thompson12-12.db
Dataset Pathname: pass1
Presentation Format: cbl_drs
Dataset Creation: Sat Jun 15 06:40:05 2013 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

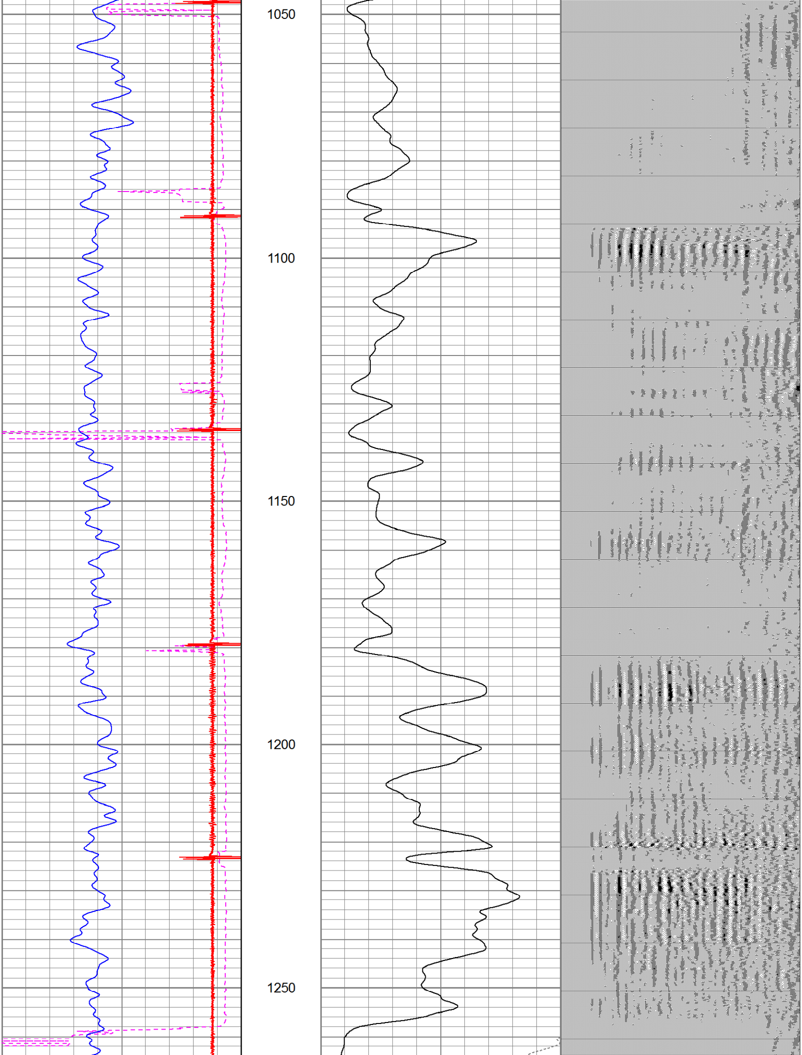


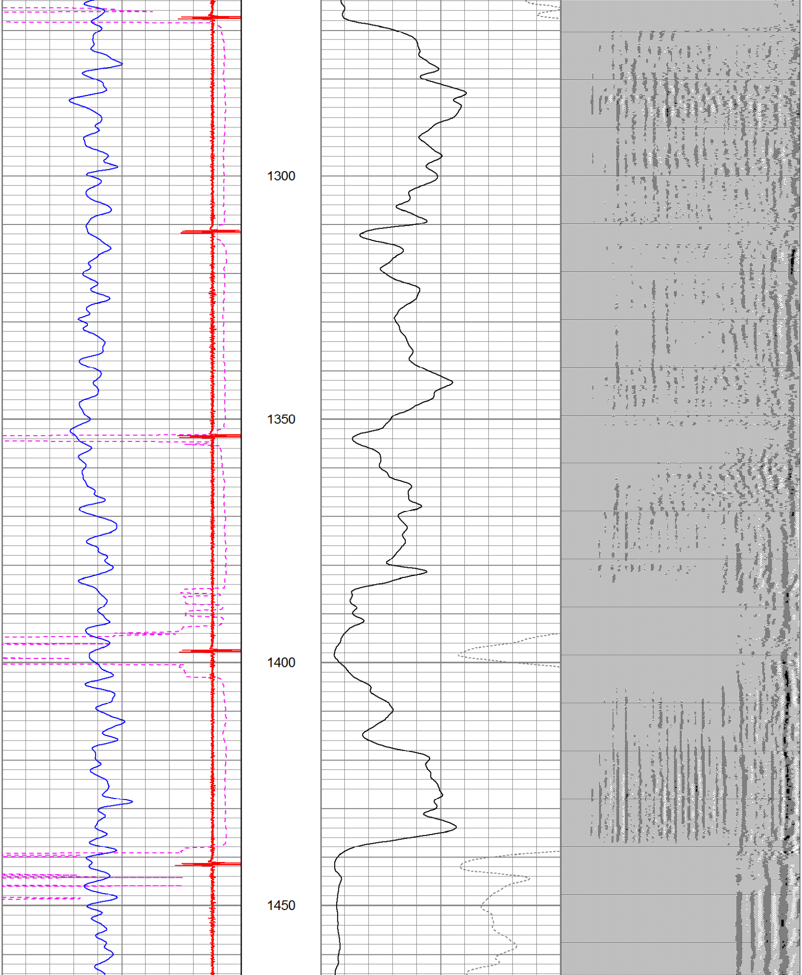


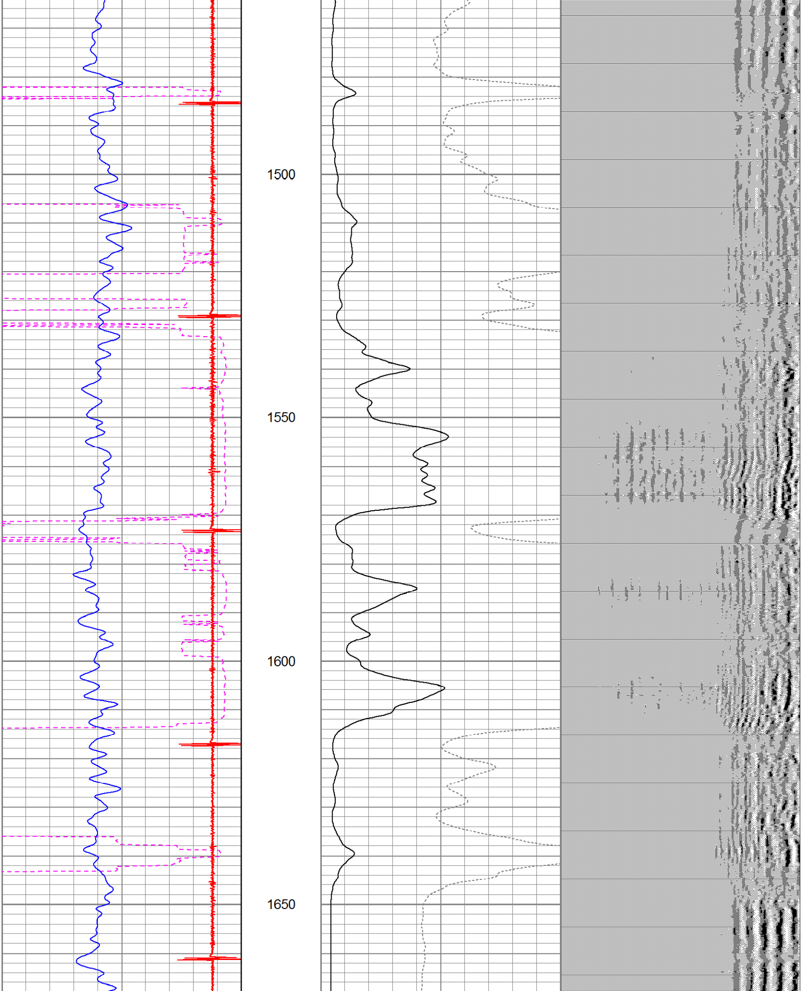


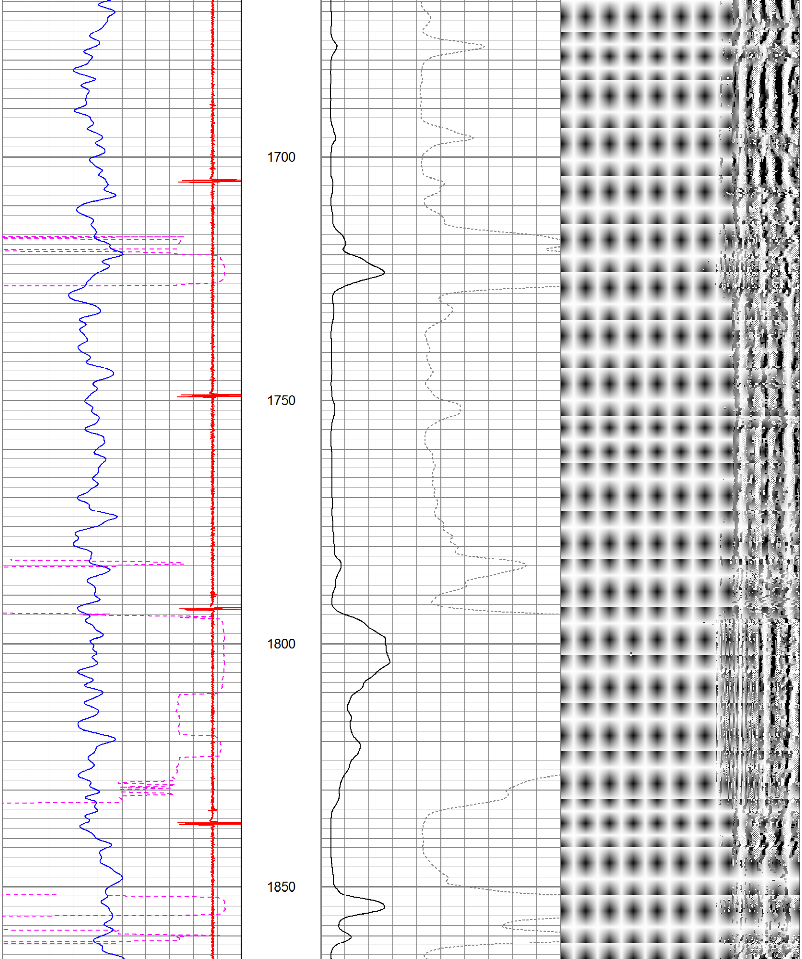


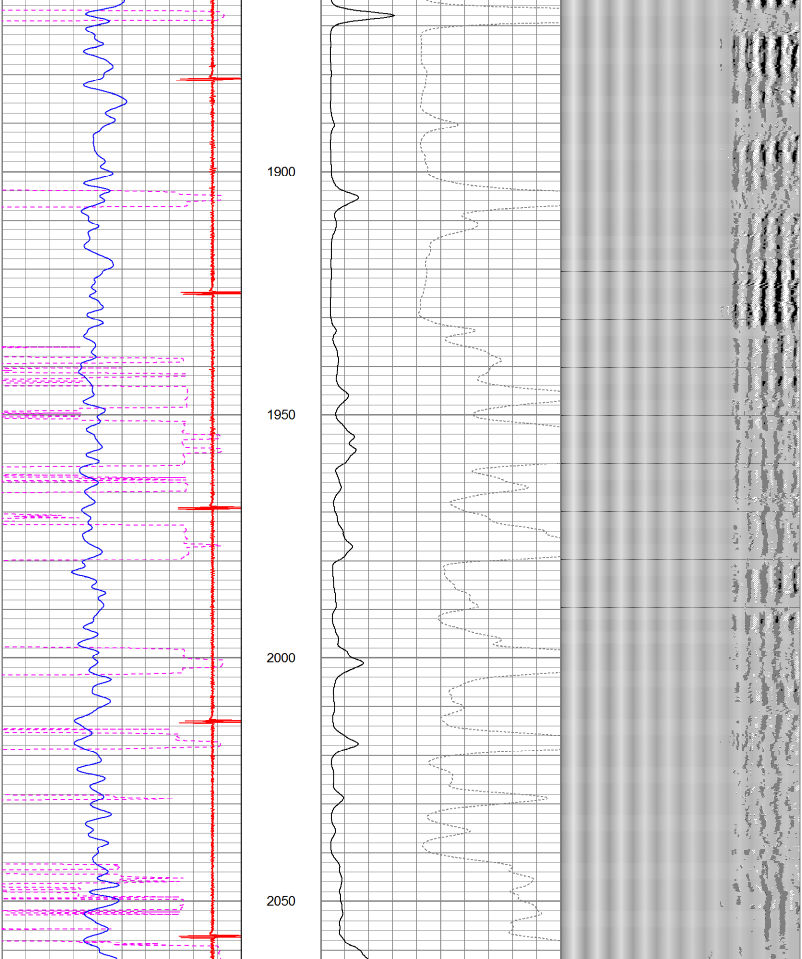


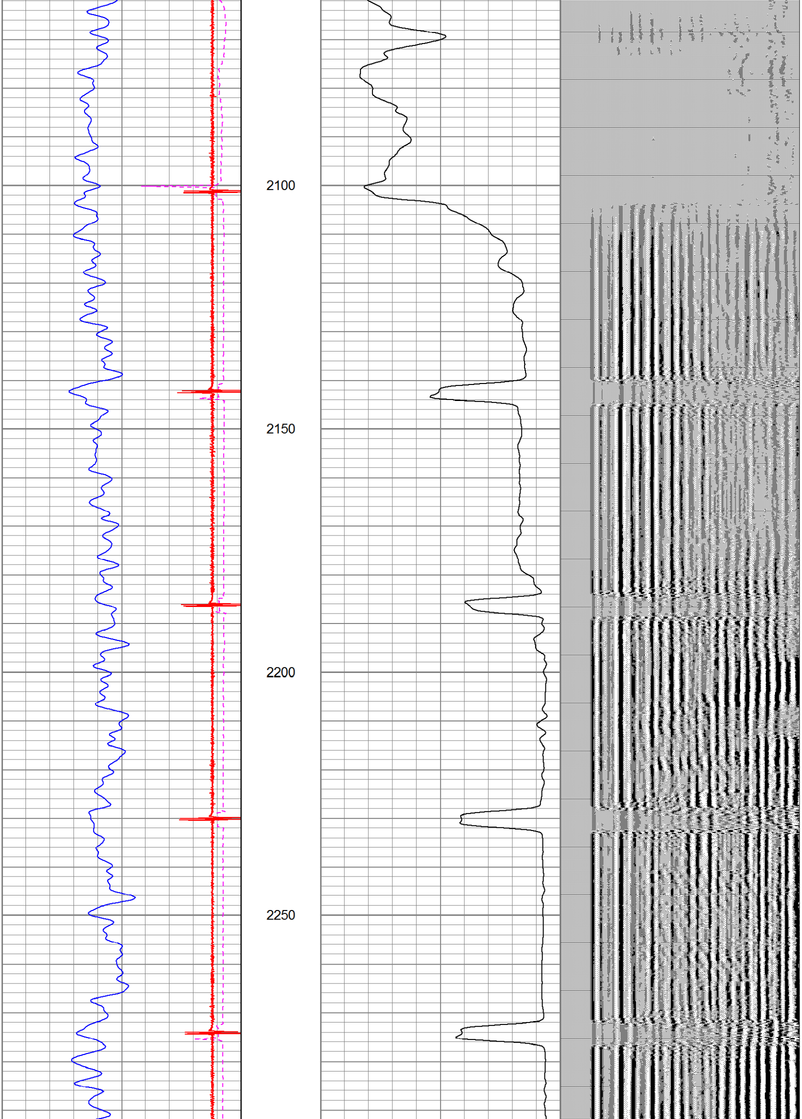


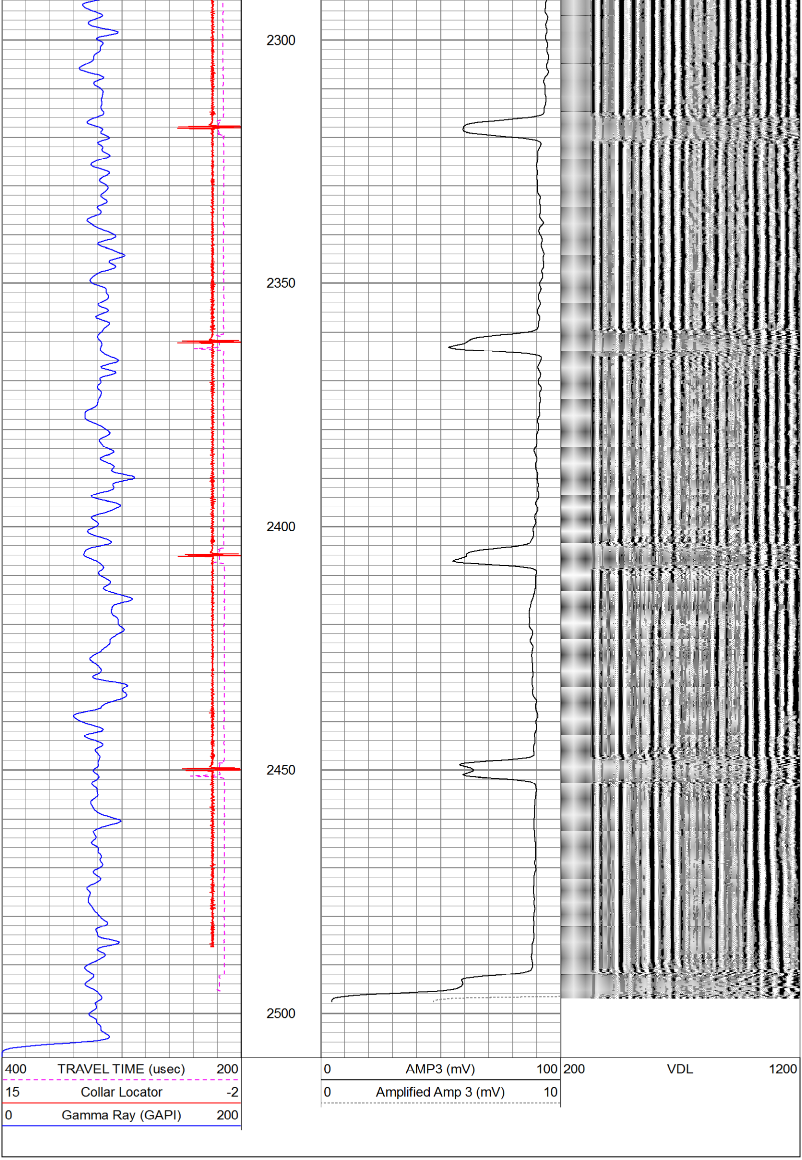












Calibration Report

Database File:	nbl thompson12-12.db
Dataset Pathname:	pass1
Dataset Creation:	Sat Jun 15 06:40:05 2013 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Tue Dec 11 08:08:39 2012	
Calibrator Value:	0.8	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01	
Tool Model:	TEKCO-1x2	
Performed:	Sat Jun 15 06:38:04 2013	
Depth:	2247.13	ft
Casing Diameter:	3.5	in

	3' Spacing	5' Spacing	
Signal Zero:	1.2	0	mV
Calibrated Amplitude:	94.5169	94.5169	mV
Reading at Signal Zero:	-0.0661279	-0.00717773	V
Reading in Free Pipe:	1.69602	0.354663	V
Gain:	52.9563	261.211	
Offset:	4.70189	1.87491	