Casedhole Solutions®

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well MOORE 02
Field WATTENBERG
County WELD
State COLORADO

Company	NOBLE ENERGY INC.		
Well	MOORE 02		
Field	WATTENBERG		
County	WELD	**State**	COLORADO

Location: API # : 0512312392

SW/NE

SEC 13 TWP 6N RGE 66W

Permanent Datum	GL	Elevation	4762
Log Measured From	KB		
Drilling Measured From	KB		

Other Services

Elevation
K.B. 4773
D.F.
G.L. 4762

Date	JULY 26, 2016		
Run Number	ONE		
Depth Driller	7270		
Depth Logger	2000		
Bottom Logged Interval	2000		
Top Log Interval	SURFACE		
Open Hole Size	7-7/8		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	140		
Time Well Ready	BAYOU RIG		
Time Logger on Bottom	2-3/4 PROBE		
Equipment Number	922338		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	TYSON HAMACHER		

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#	11	307
Prot. String				
Production String	4-1/2	11.6#	11	7270
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 CHS!!!!
LOG CORRELATED TO CHS GAMMA RAY CCL/CEMENT BOND VDL DATED JULY 25, 2016

Database File:	cbl noble moore 02 third log.db
Dataset Pathname:	pass2
Presentation Format:	noble en
Dataset Creation:	Tue Jul 26 07:23:10 2016 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

50 CCL -5.5

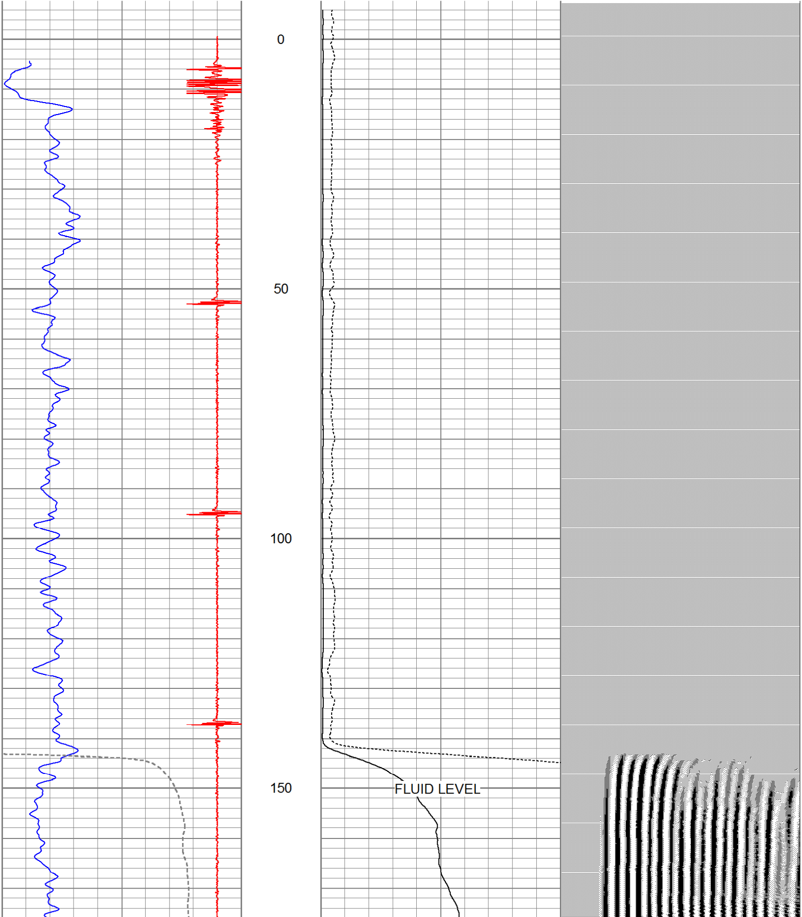
0 Gamma Ray (GAPI) 200

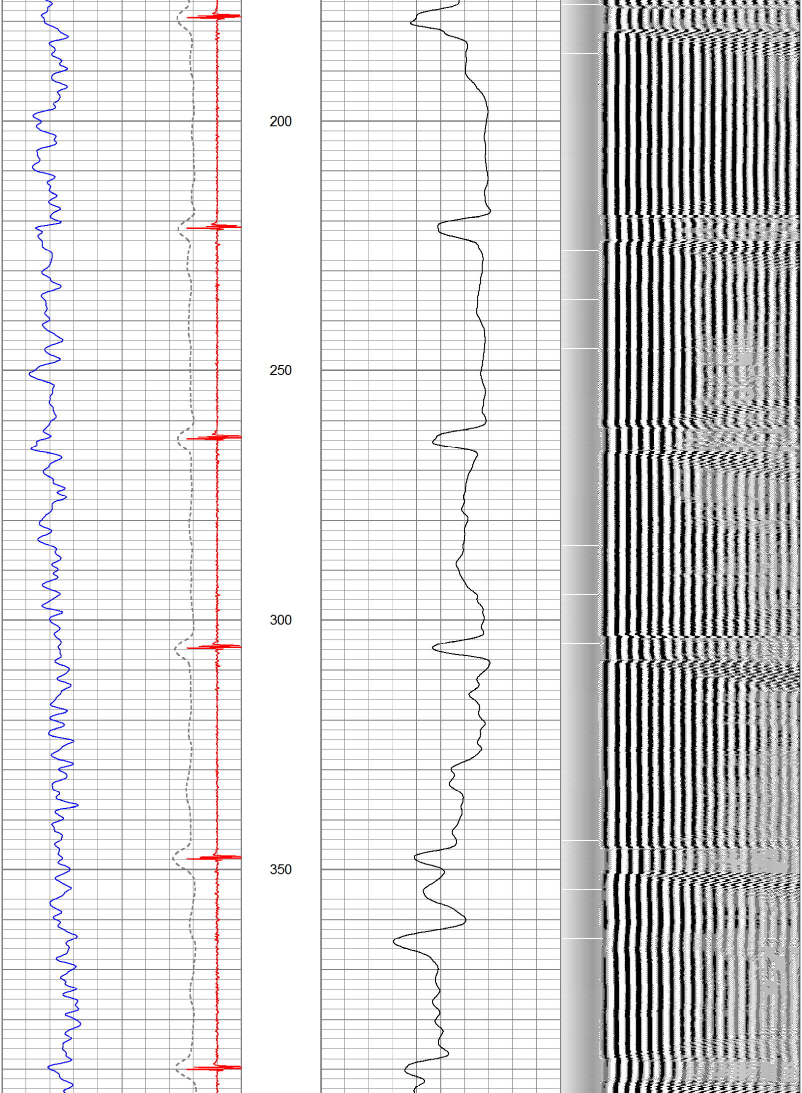
340 TT3 (usec) 240

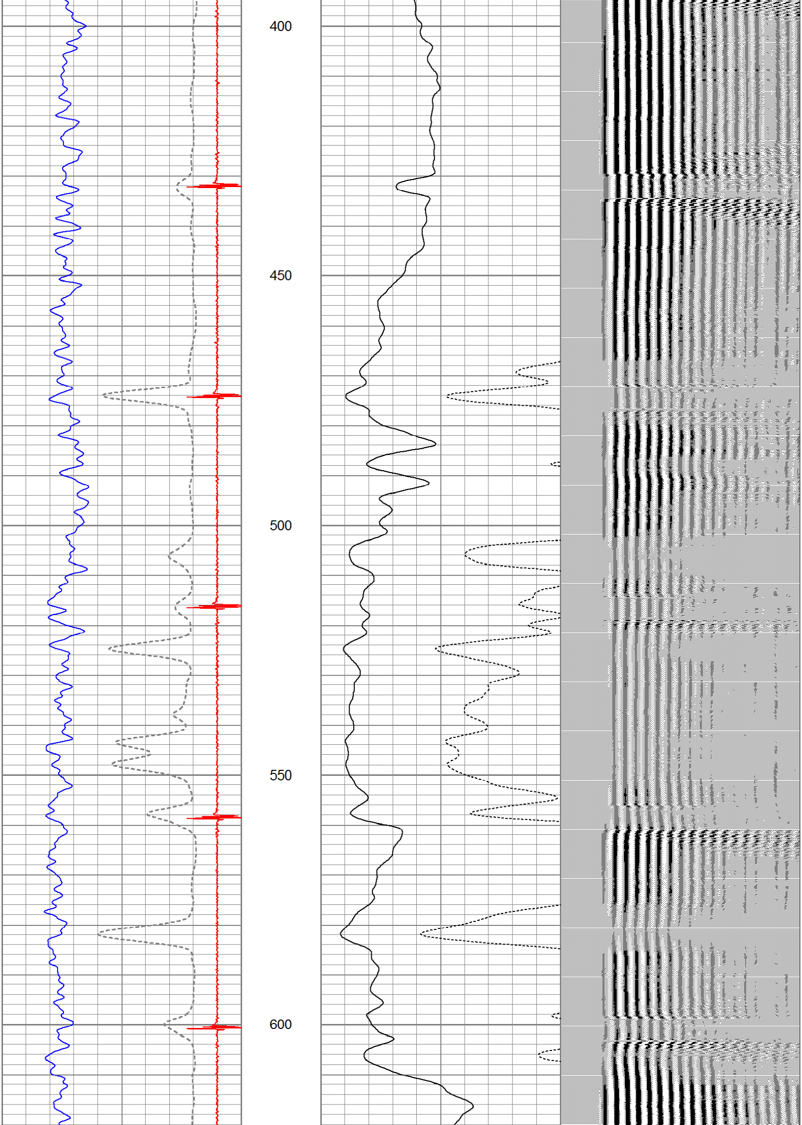
0 Amplified Amplitude (mV) 20

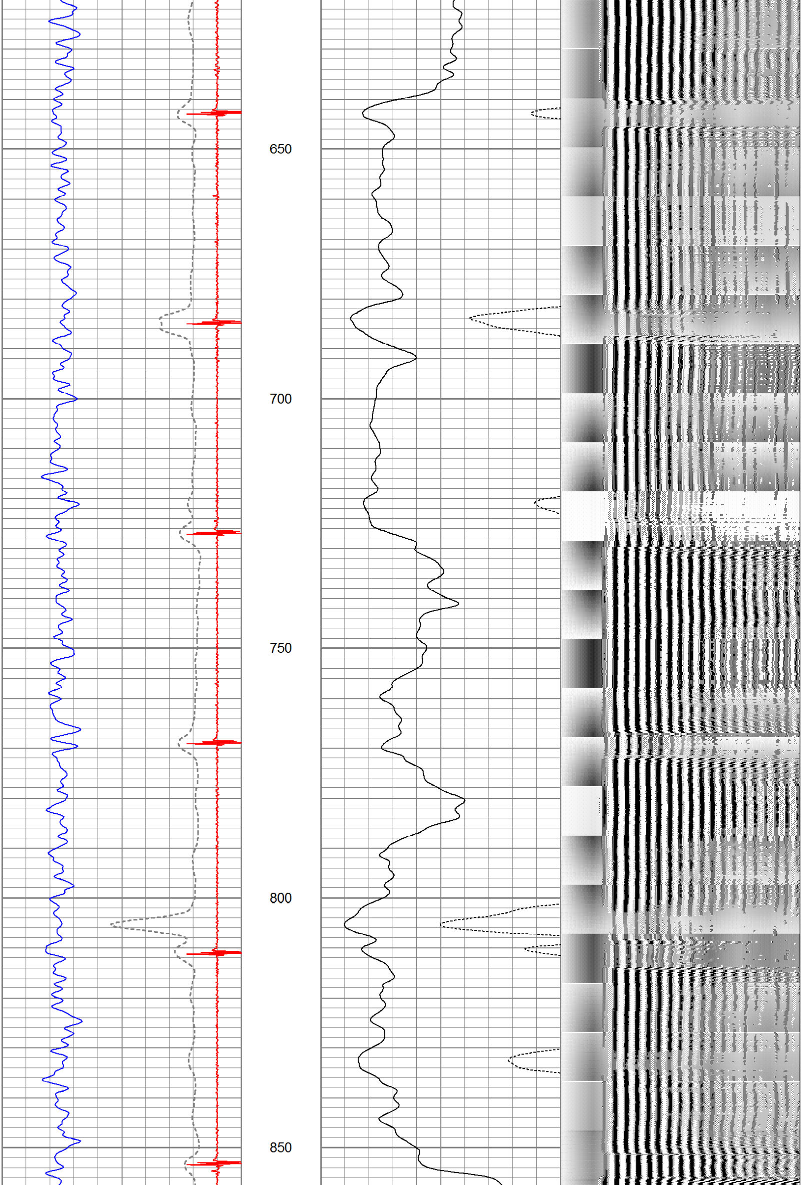
0 Amplitude (mV) 100

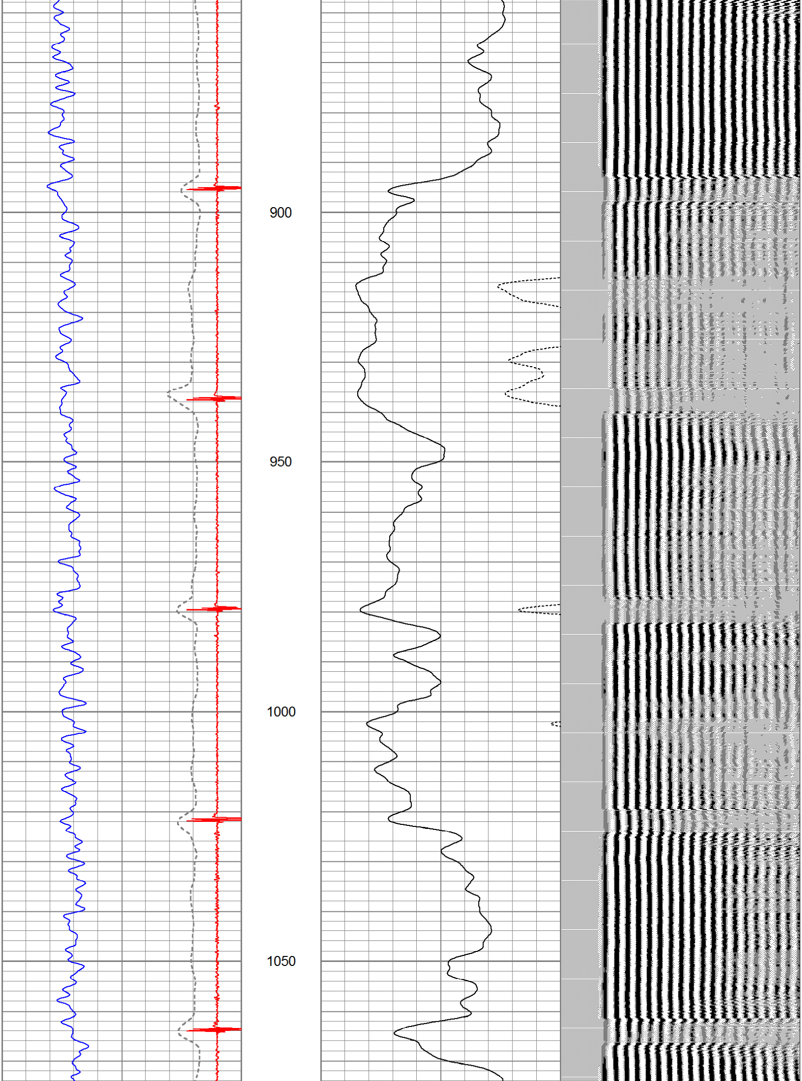
200 Variable Density 1200

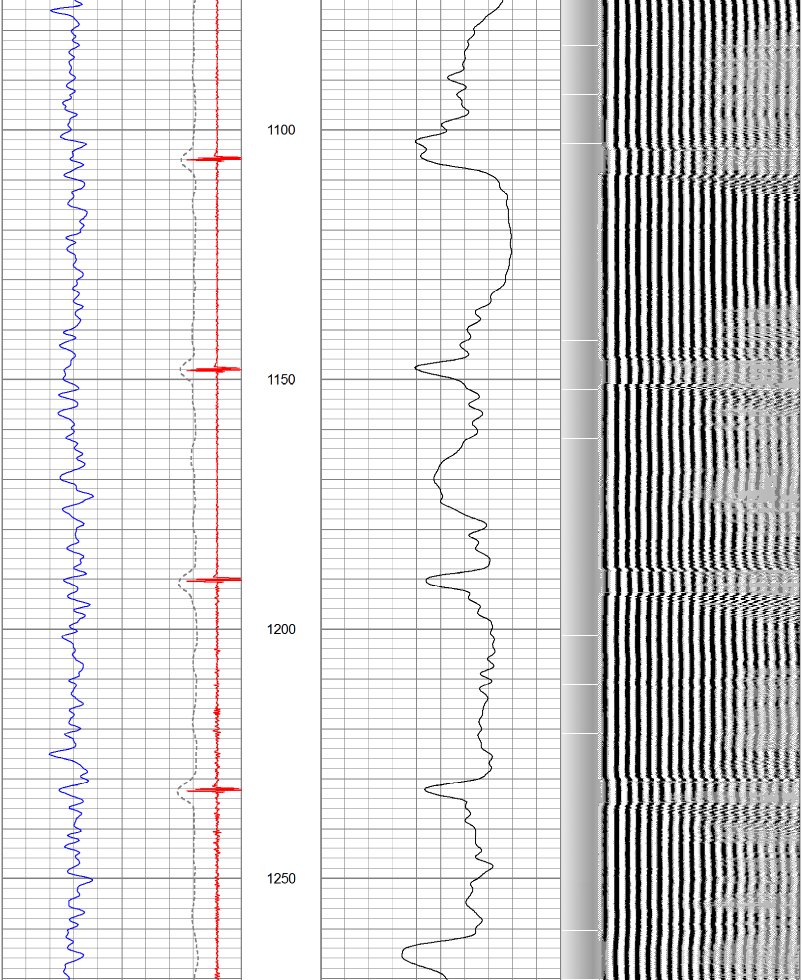


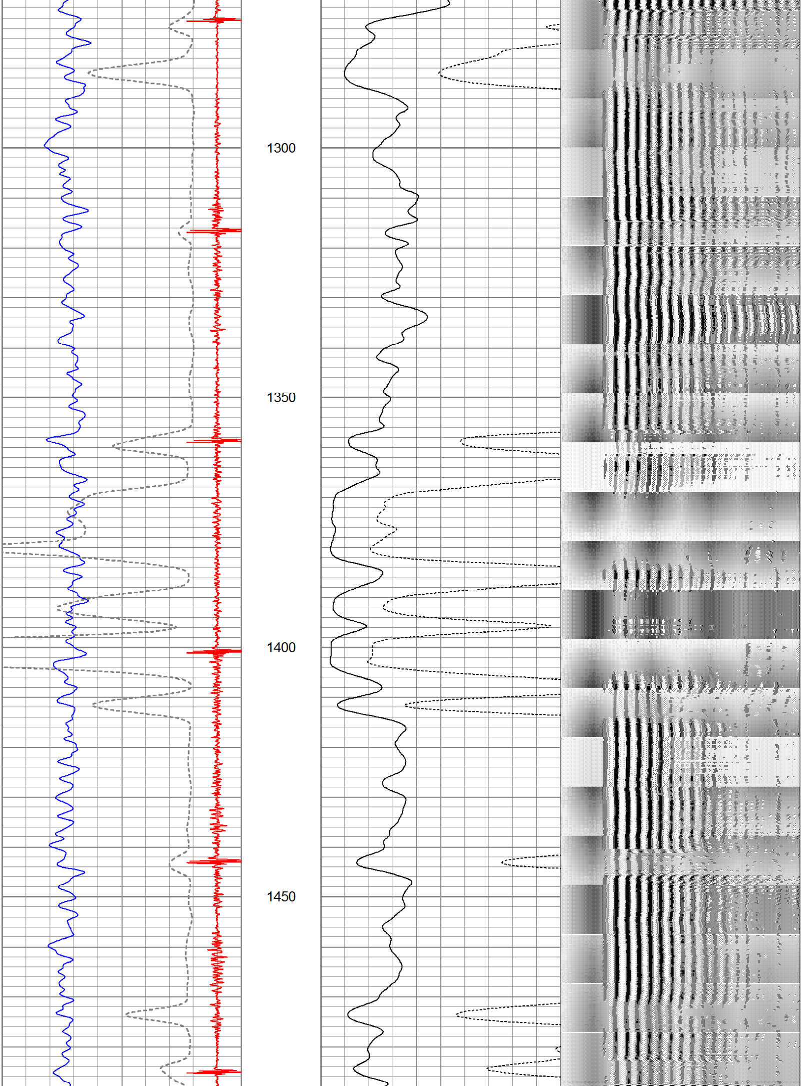


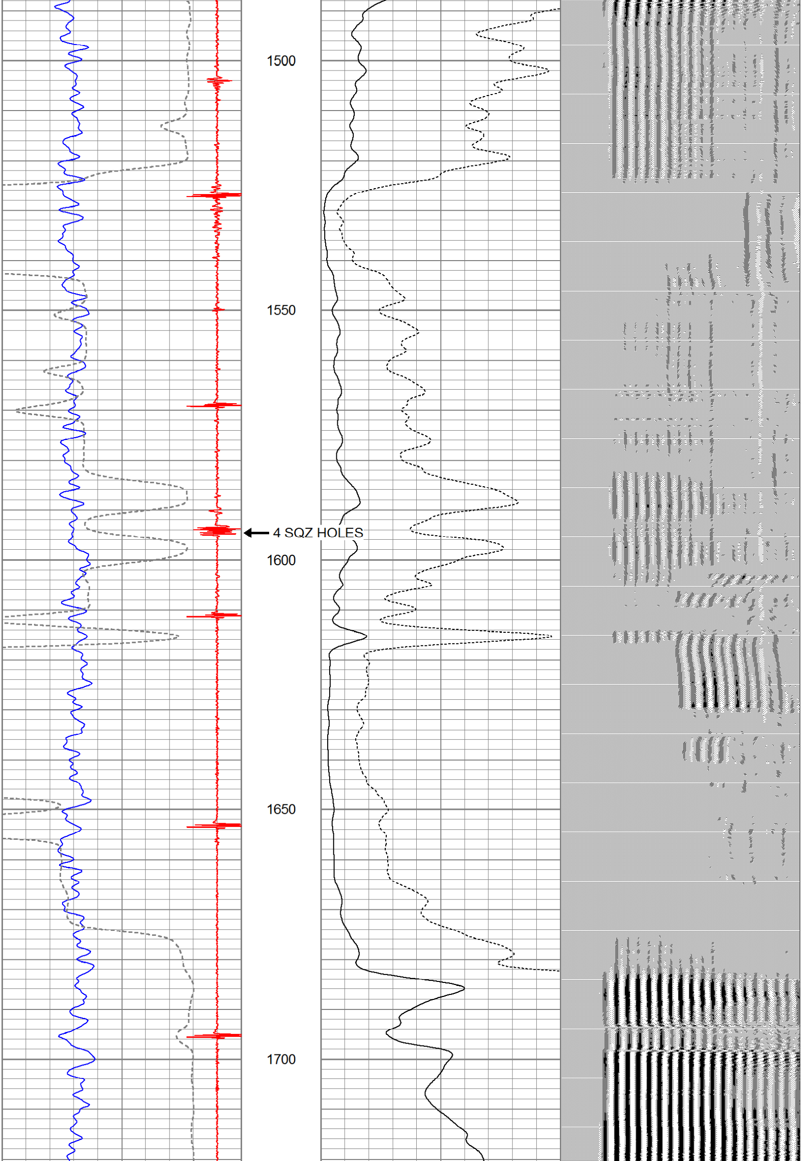


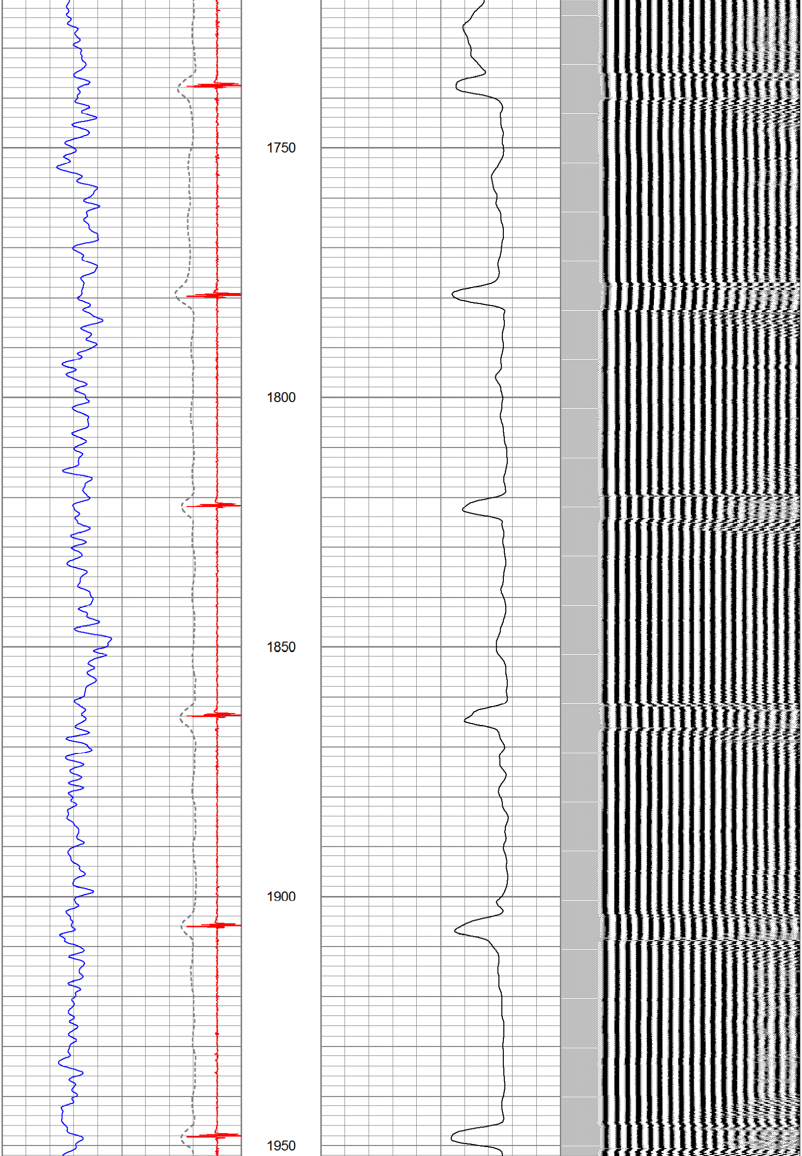


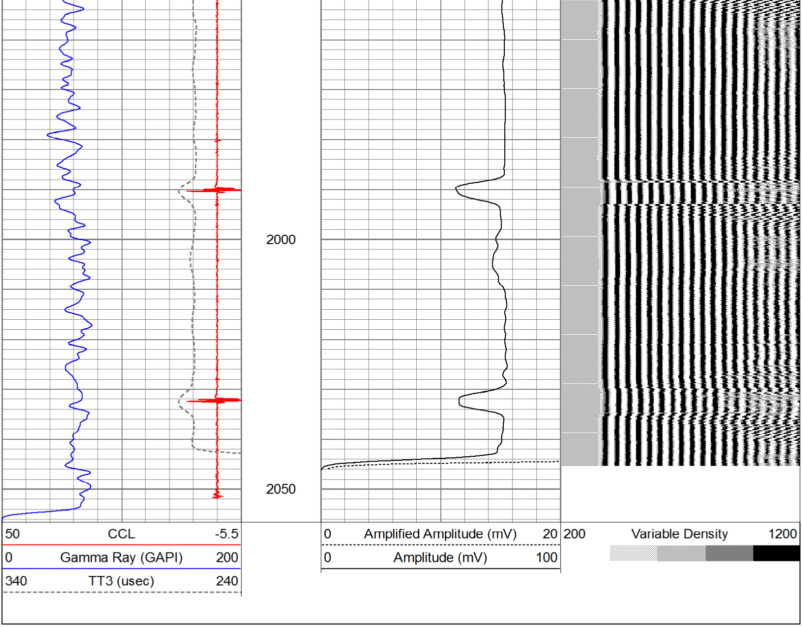












Calibration Report

Database File: cbl noble moore 02 third log.db
Dataset Pathname: pass2
Dataset Creation: Tue Jul 26 07:23:10 2016 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION	Tue Jul 19 13:32:08 2016				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6000			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110802
Tool Model: Probe275Digital
Performed: Tue Jul 26 07:23:01 2016

Depth: 2054.87 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00634766	0.00664063	V
Reading in Free Pipe:	2.49968	2.28672	V
Gain:	32.2845	35.6111	
Offset:	0.495069	-0.23648	