Casedhole Solutions

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	MOSER X 3-27
Field	WATTENBERG
County	WELD
State	COLO

Company NOBLE ENERGY INC.

Well MOSER X 3-27

Field WATTENBERG

County WELD **State** COLO

Location: API # : 05-123-29665

SE/SE

SEC 34 TWP 3N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4839
Log Measured From	KB 15'		
Drilling Measured From	KB		

Elevation

K.B. 4854
D.F.
G.L. 4839

Date	FEB-20-2016		
Run Number	ONE		
Depth Driller			
Depth Logger	2000'		
Bottom Logged Interval	2000'		
Top Log Interval	SURFACE		
Casing Size	4.5		
Type Fluid	WATER		
Max. Recorded Temp.	NA		
Estimated Cement Top	700		
Time Well Ready			
Time Logger On Bottom			
Unit Number	92-3827		
Tool Size / ID Number	1 11/16 PROBE		
Location	STERLING		
Recorded By	KYLE GIRDLER		
Witnessed By	CHRIS HONSTIEN		

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				
Liner				

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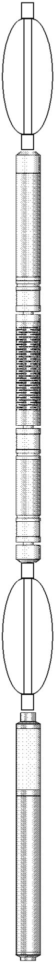
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

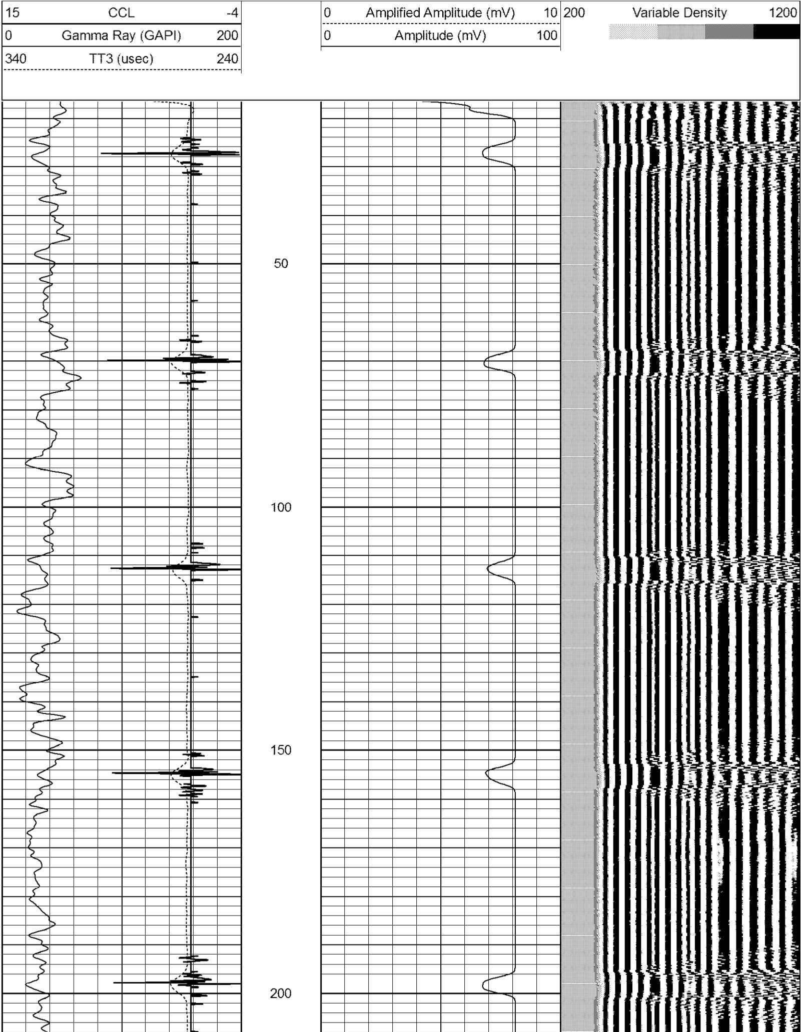
Comments

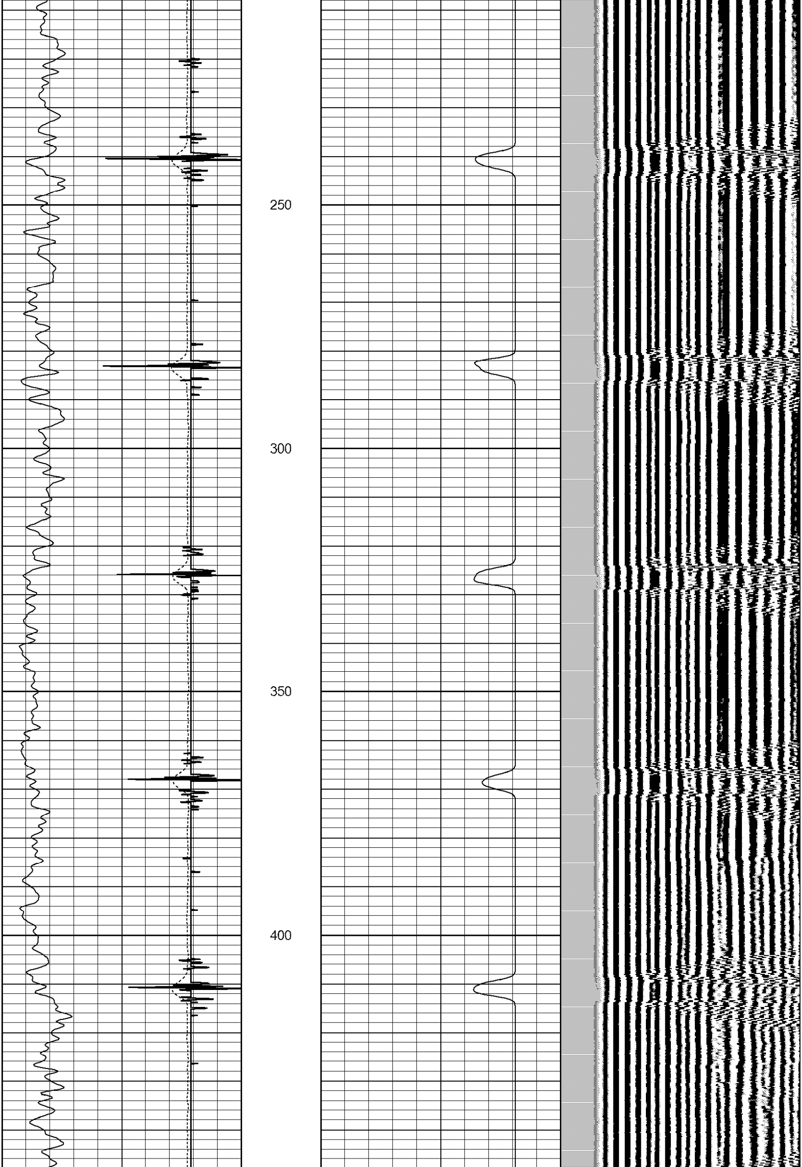
THANK YOU FOR USING CASEDHOLE SOLUTIONS

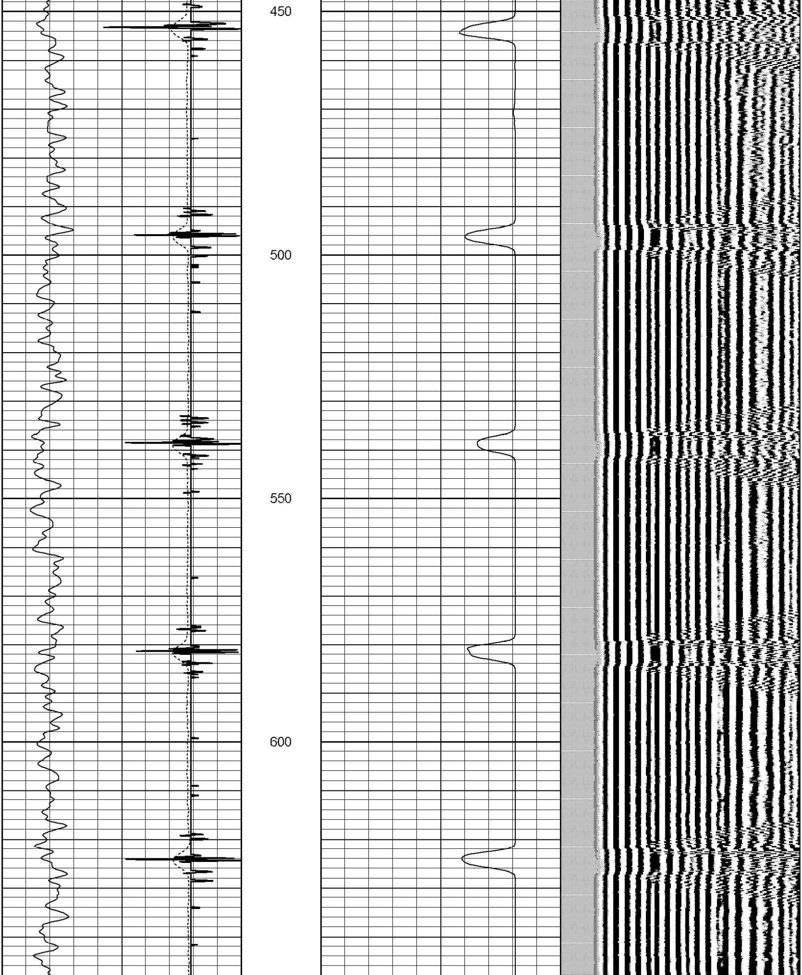
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1 PROBE	3.13	2.00	8.00
WVF3	12.59		CBL-Probe (FW1406-029) 1-11/16	8.60	1.69	41.00
WVF5	11.59					
			1 PROBE	3.13	2.00	8.00
CCL	4.08					
			GR-CCL/GR (FW1406-009) 1-11/16	5.21	1.69	
GR	0.57					

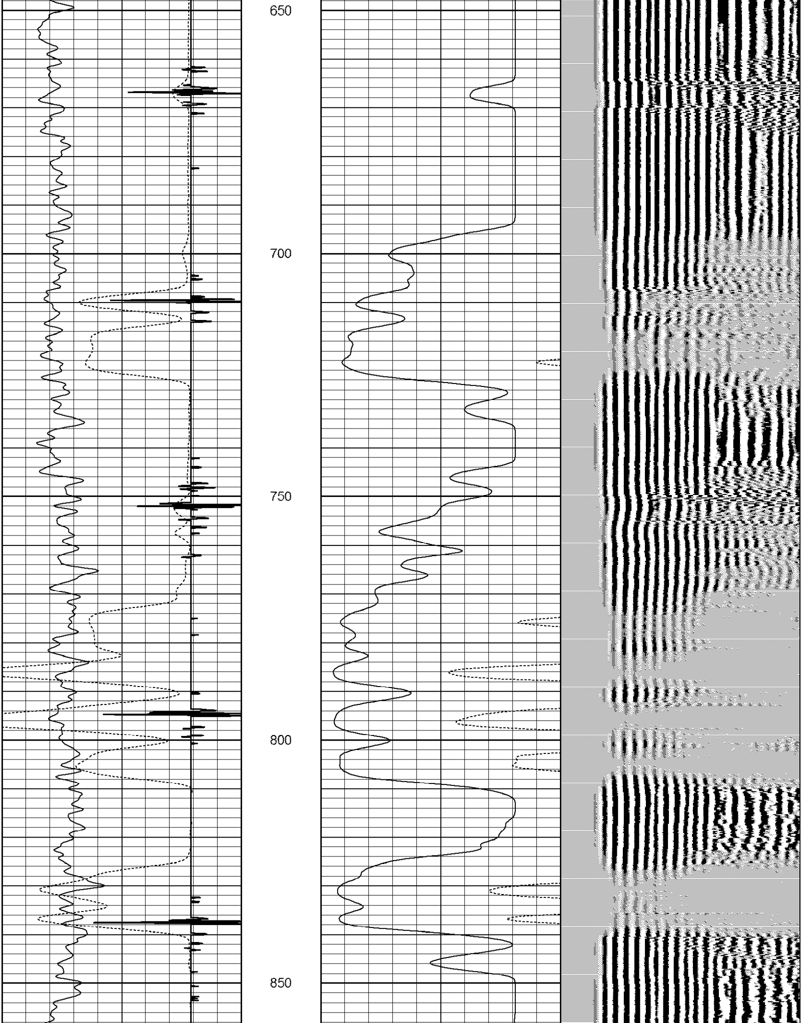
Dataset:	moser x 3-27 cbl.db: field/well/run1/pass19
Total Length:	20.07 ft
Total Weight:	57.00 lb
O.D.	2.00 in

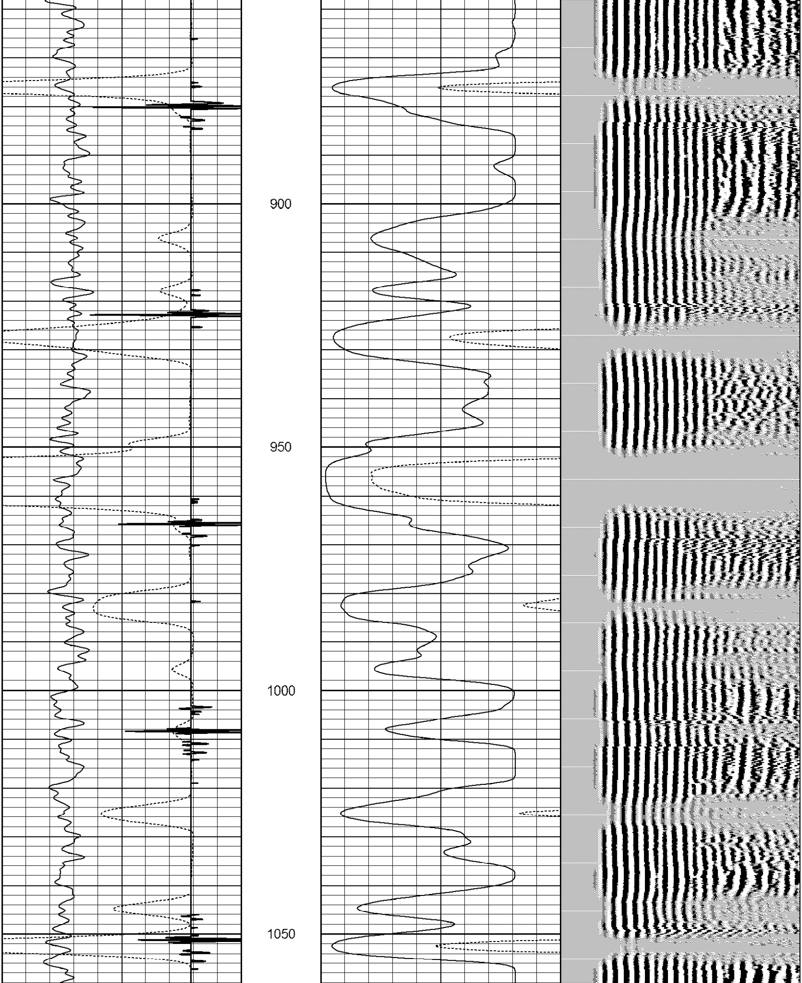
Database File: moser x 3-27 cbl.db
Dataset Pathname: pass19
Presentation Format: nuexcbl
Dataset Creation: Sat Feb 20 18:04:42 2016 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

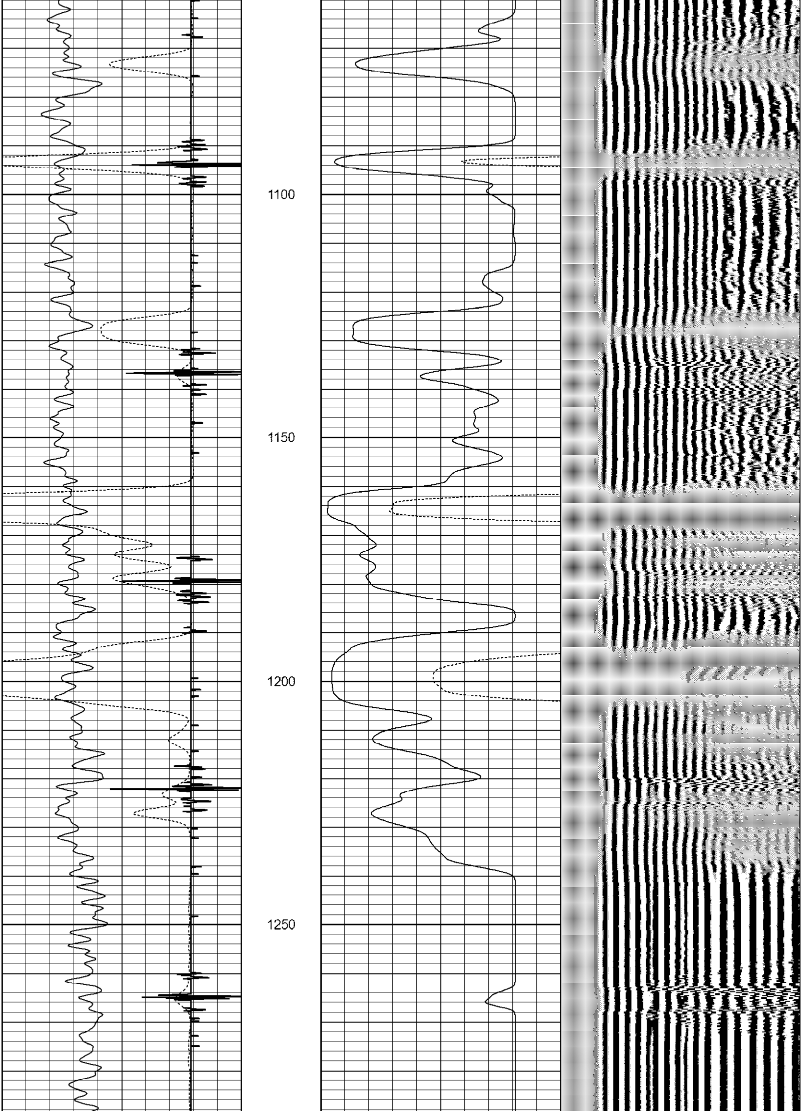


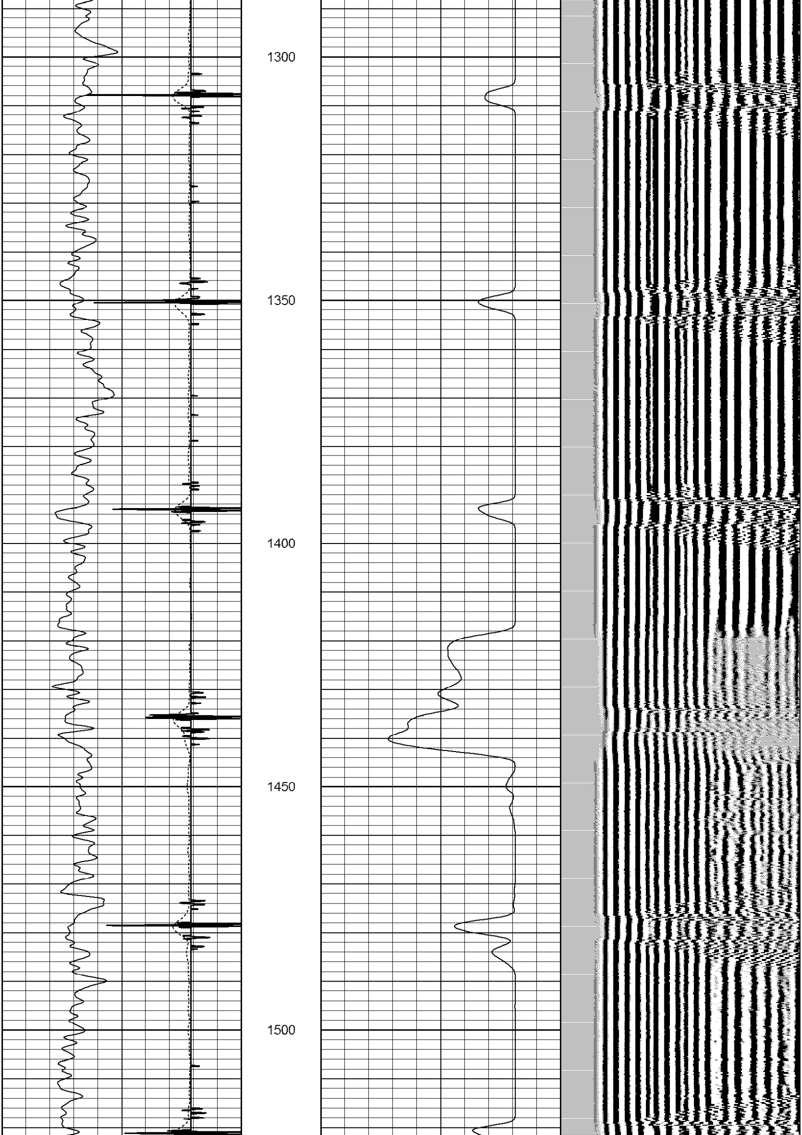


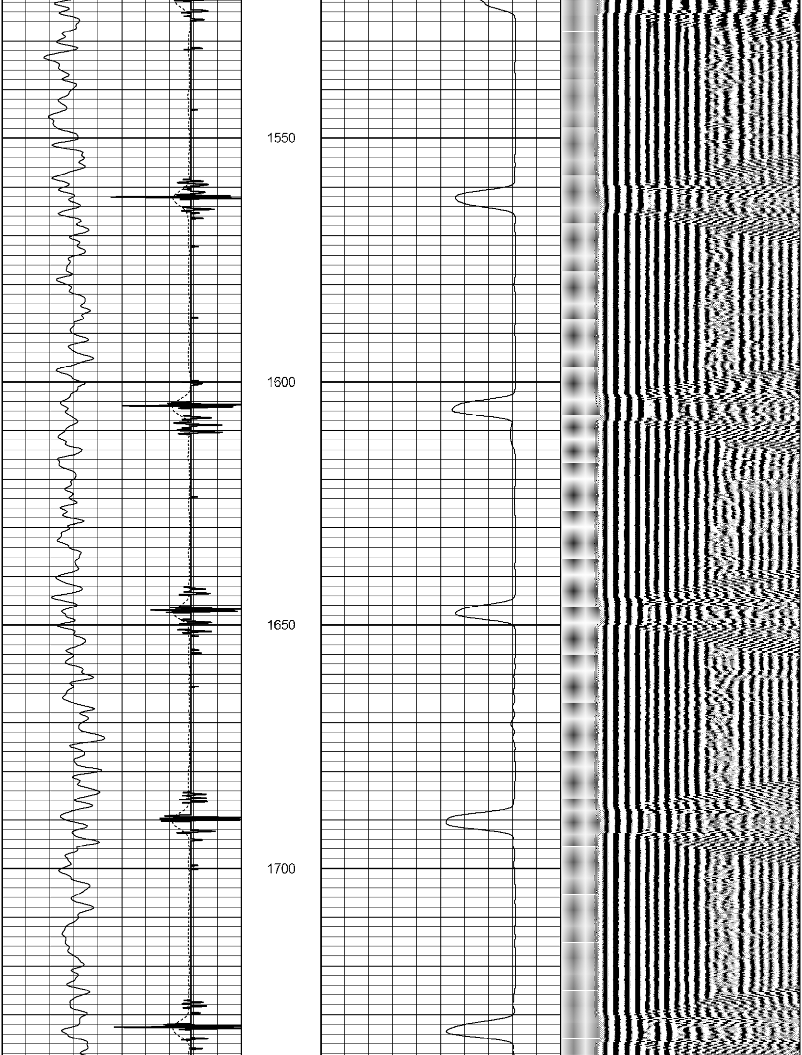


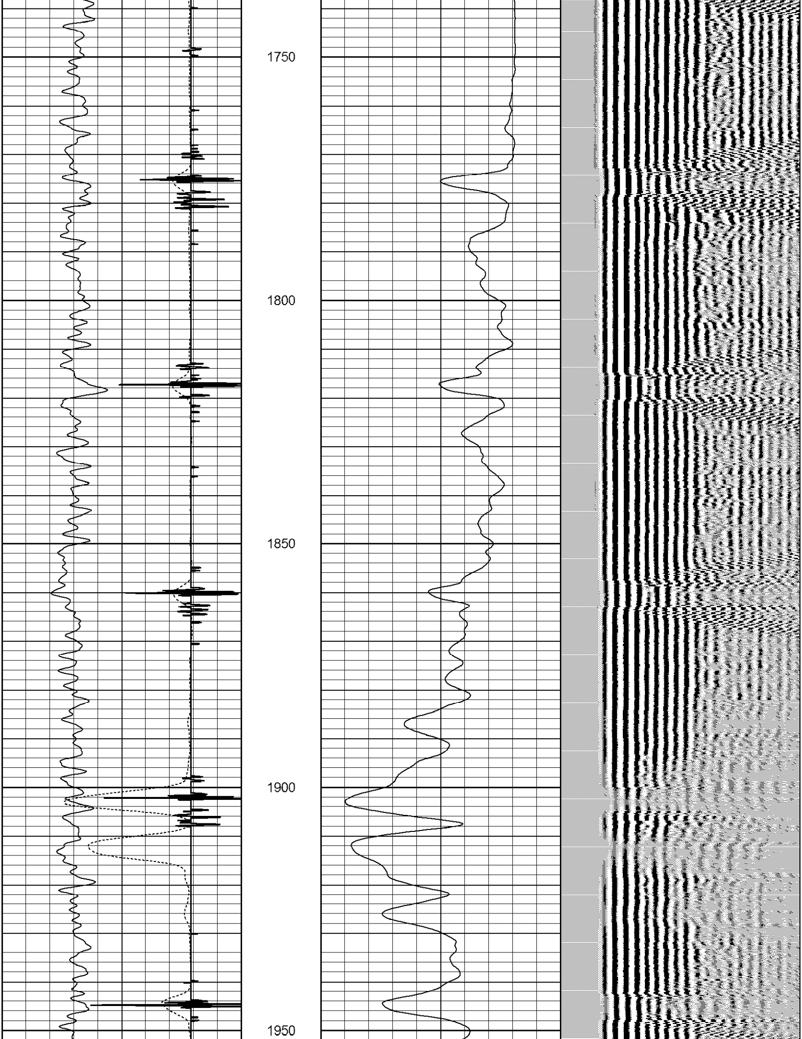


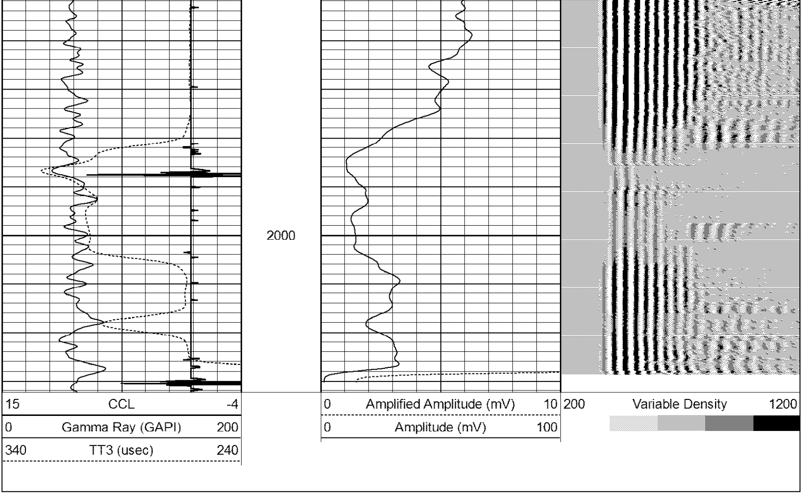












Calibration Report

Database File: moser x 3-27 cbl.db
Dataset Pathname: pass19
Dataset Creation: Sat Feb 20 18:04:42 2016 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: CCL/GR / FW1406-009

SHOP CALIBRATION

Thu Jun 11 13:08:30 2015

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.7000			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: FW1406-029
Tool Model: Probe
Performed: Sat Feb 20 18:02:01 2016

Depth: 1409.58 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0	0	V
Reading in Free Pipe:	2.49878	2.49878	V
Gain:	31.894	32.4943	
Offset:	1.5	0	