SUPERIOR WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company	Noble Energy INC.
Well	DONALDSON USX EE29-12D
Field	Wattenberg
County	Weld
State	Colorado

Company Noble Energy INC.
Well DONALDSON USX EE29-12D
Field Wattenberg
County Weld State Colorado

Location: API #: 05123336740000
1343' FNL & 347' FWL SW NW
660' FWL & 2000' FSL NW SW
SEC 29 TWP 7N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4924	Elevation
Log Measured From	KB 14'			K.B. 4938
Drilling Measured From	KB			D.F. 4937
				G.L. 4924

Date	October 14, 2011	
Run Number	One	
Depth Driller	7900 est.	
Depth Logger	7832	
Bottom Logged Interval	7831	
Top Log Interval	665	
Casing Size	4 1/2"	
Type Fluid	Water	
Max. Recorded Temp.	234 deg F	
Estimated Cement Top	1760 est.	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	3344	
Tool Size / ID Number	2.75 Probe 110802	2.75 Probe 110809
Location	Platteville, CO	
Recorded By	K. Monaghan	
Witnessed By	J. Schneider	

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	701
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7808
Liner				

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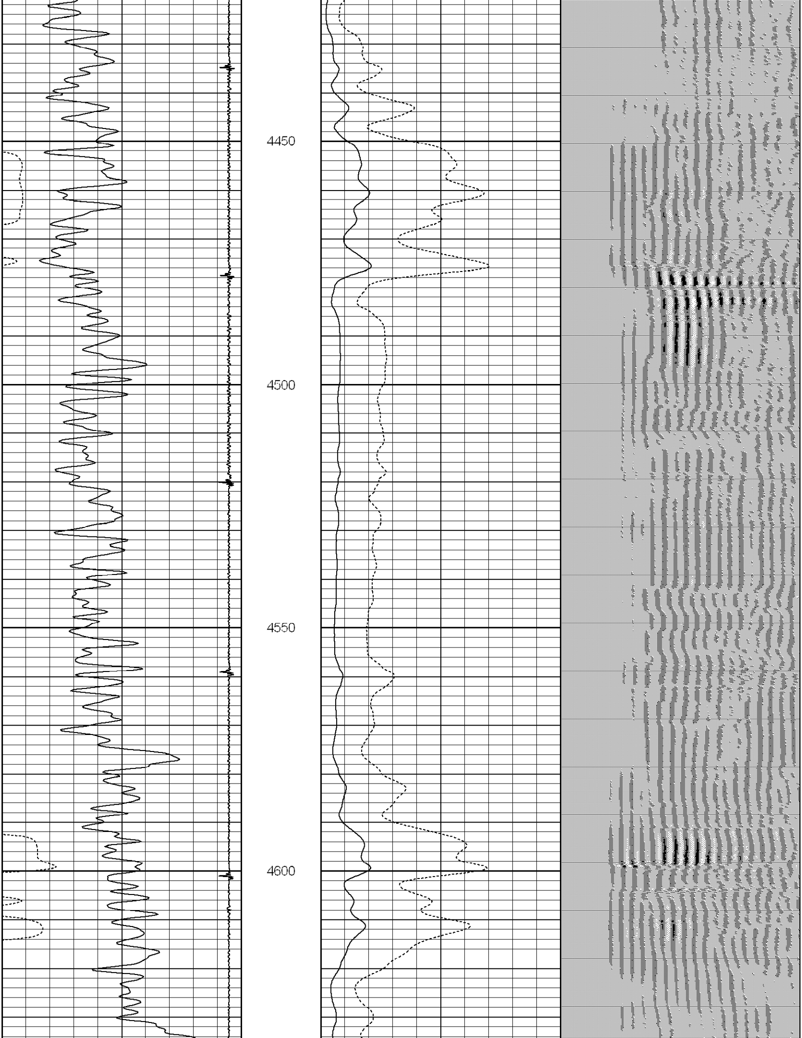
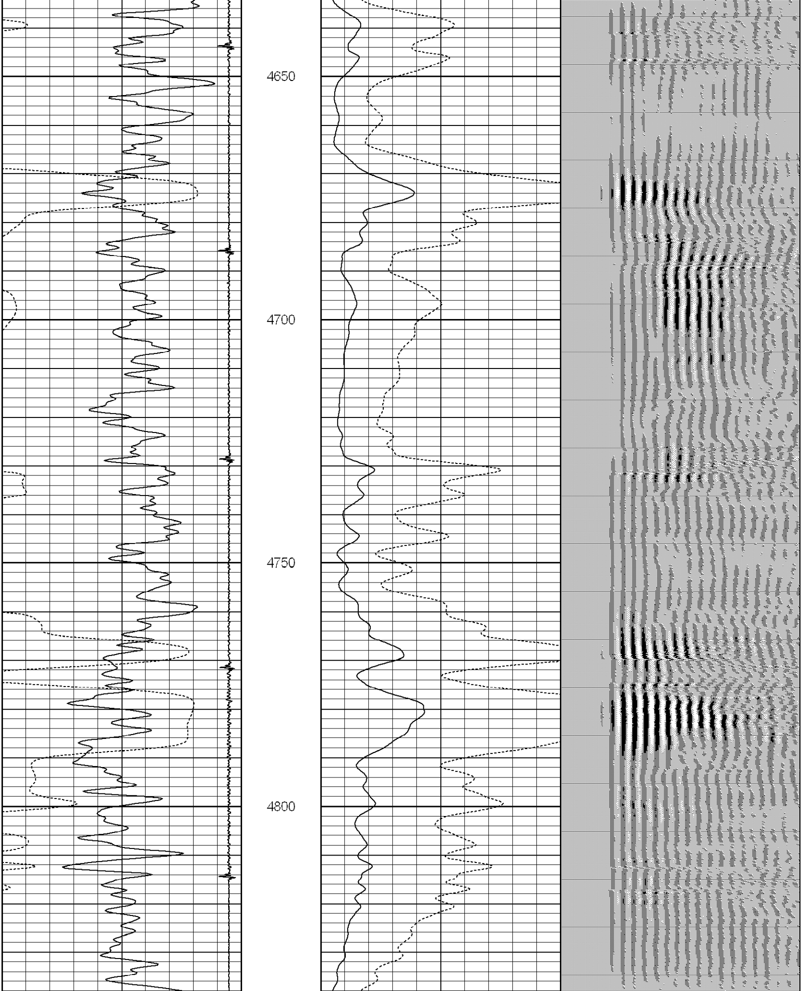
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

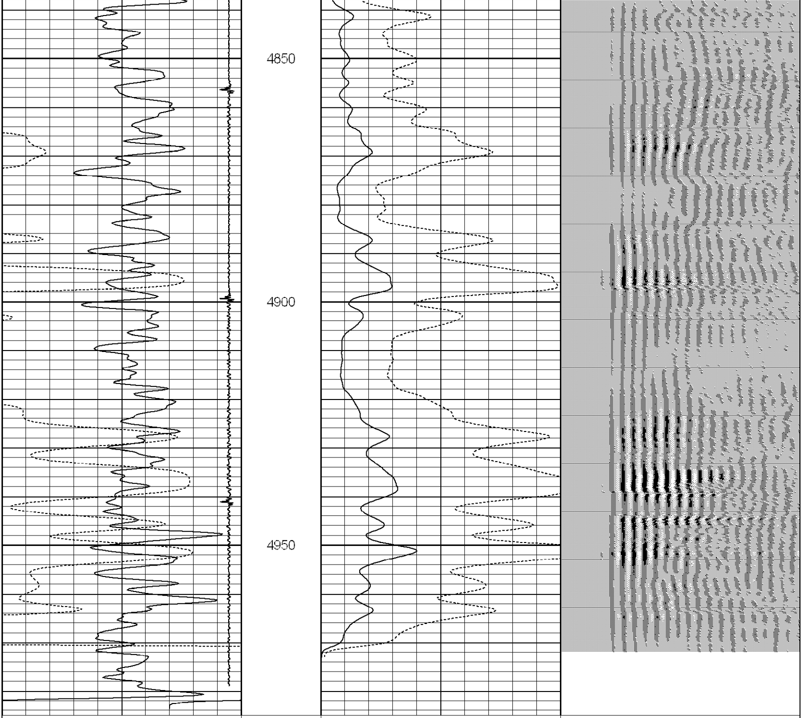
Comments

Thank You For Choosing Superior Well Services!!!
API# 05-123-33674-0000
NO OPEN HOLE LOG TO CORRELATE WITH
Wireline Zero @ 14' KB
Directions: 78 & 39, S 2/10, E Into
(Western Most Well Of 4 Well Pad)

Database File:	cbldonaldson usx ee29-12d.db
Dataset Pathname:	pass3
Presentation Format:	noble en
Dataset Creation:	Fri Oct 14 11:22:12 2011 by Log SCH 110722
Charted by:	Depth in Feet scaled 1:240



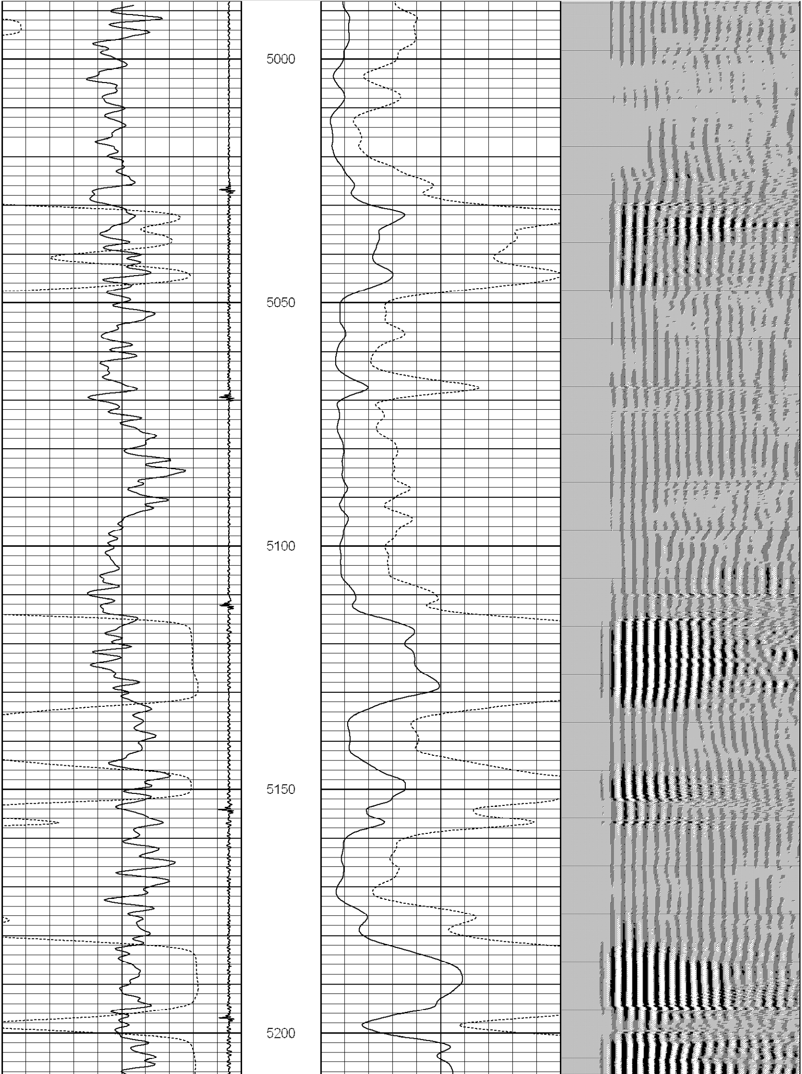


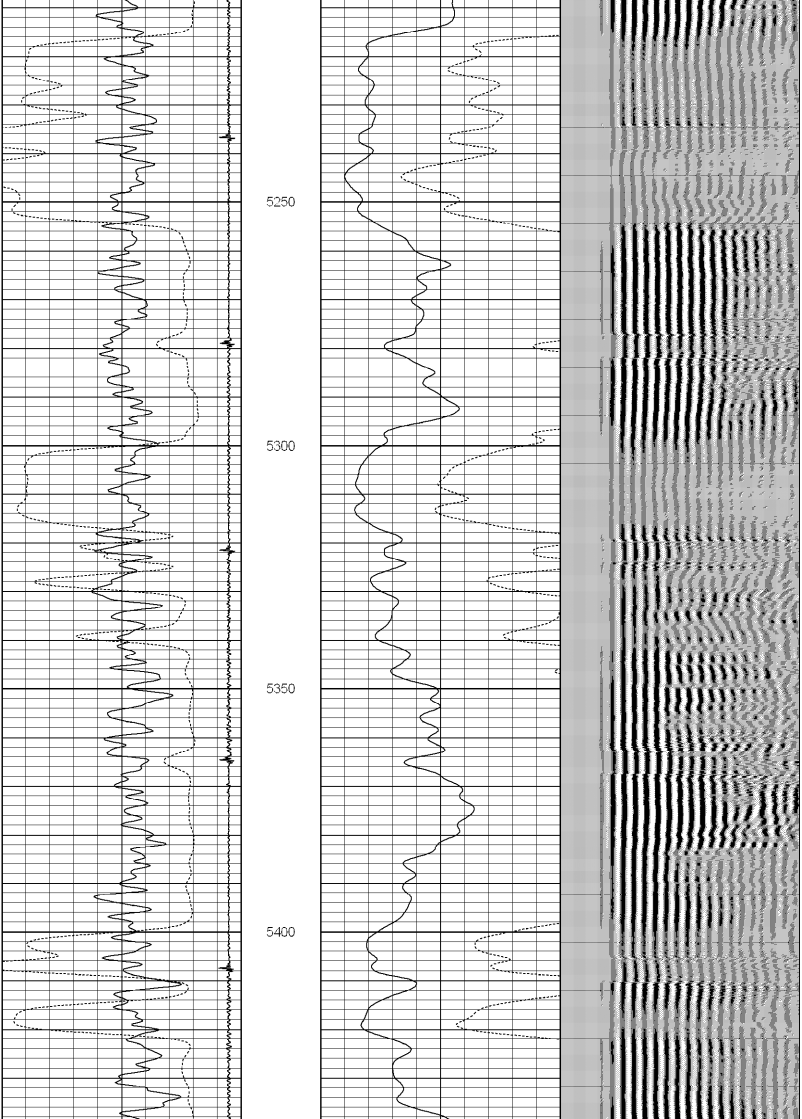


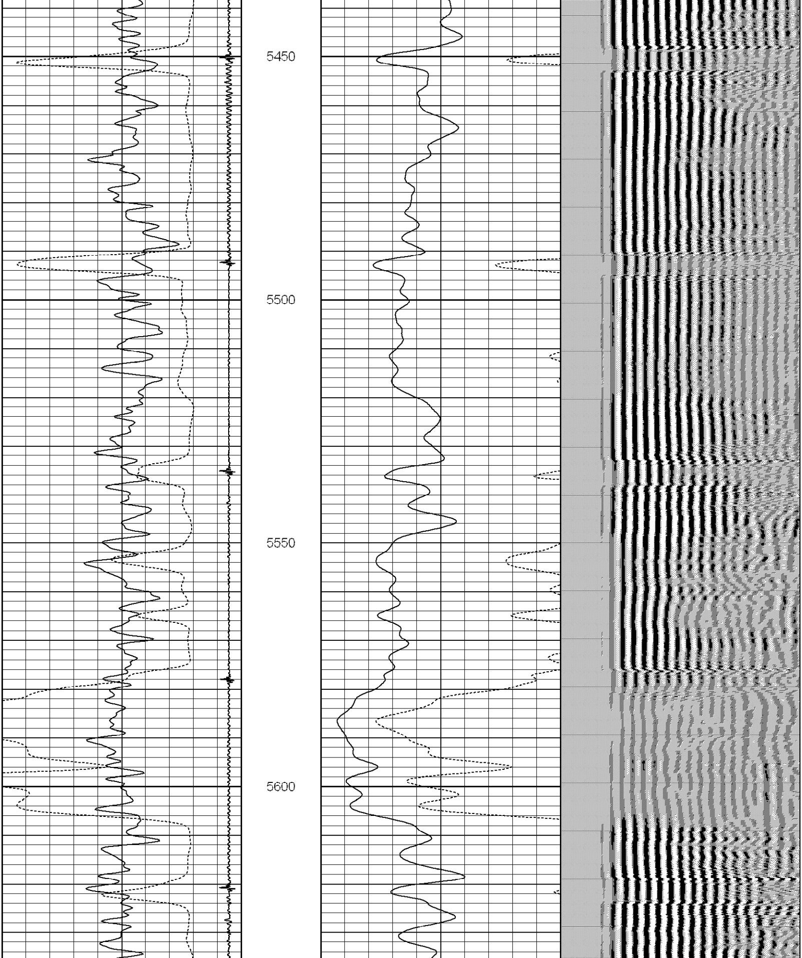
35	CCL	-1.8		0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130		0	Amplitude (mV)	100		░ ▒ ▓ █	
350	TT3 (usec)	285							

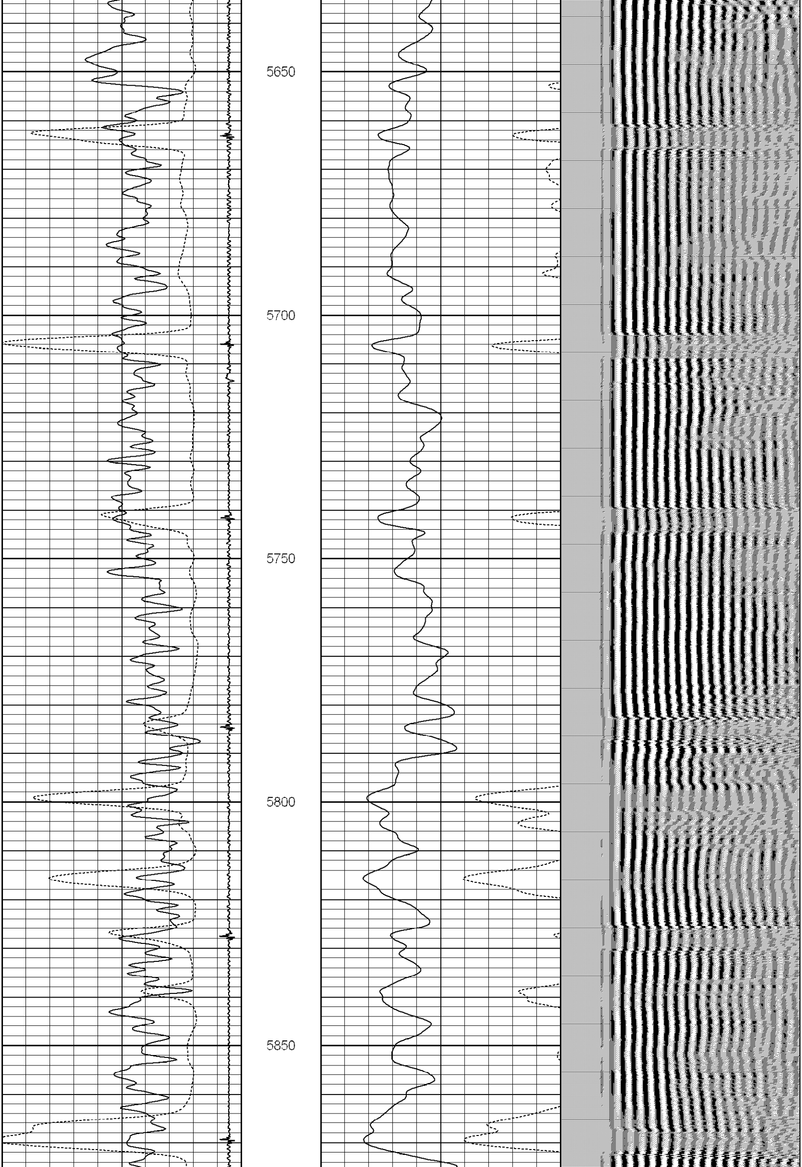
Database File: cbldonaldson usx ee29-12d.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Fri Oct 14 10:57:54 2011 by Log SCH 110722
Charted by: Depth in Feet scaled 1:240

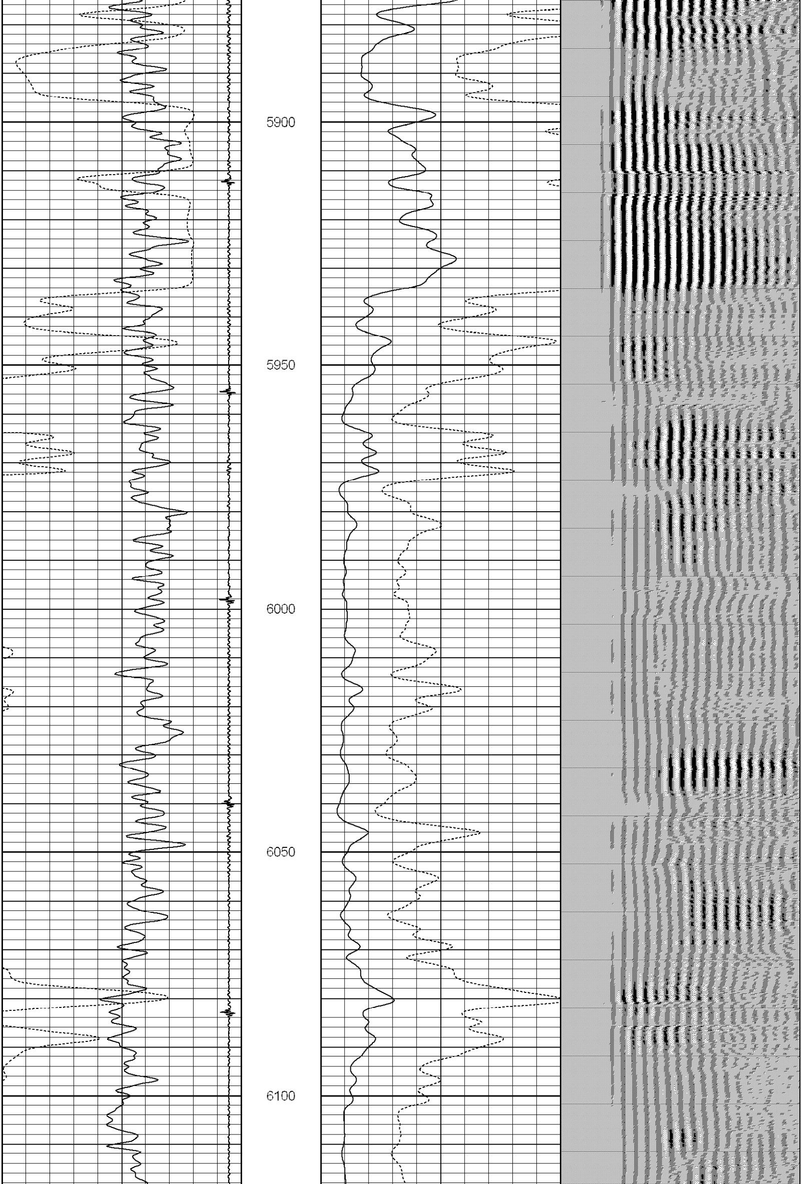
35	*CCL*	-1.8		0	Amplified Amplitude (mV)	30	200	Variable Density	1200
0	Gamma Ray (GAPI)	150		0	Amplitude (mV)	100		░ ▒ ▓ █	
350	TT3 (usec)	285							

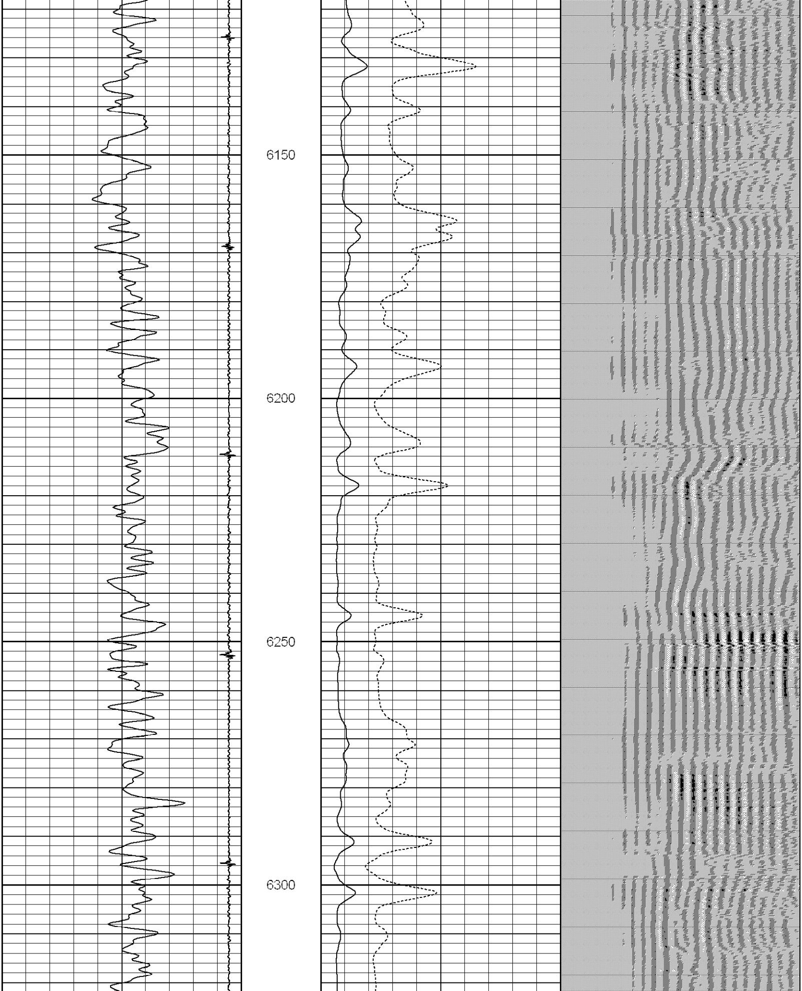


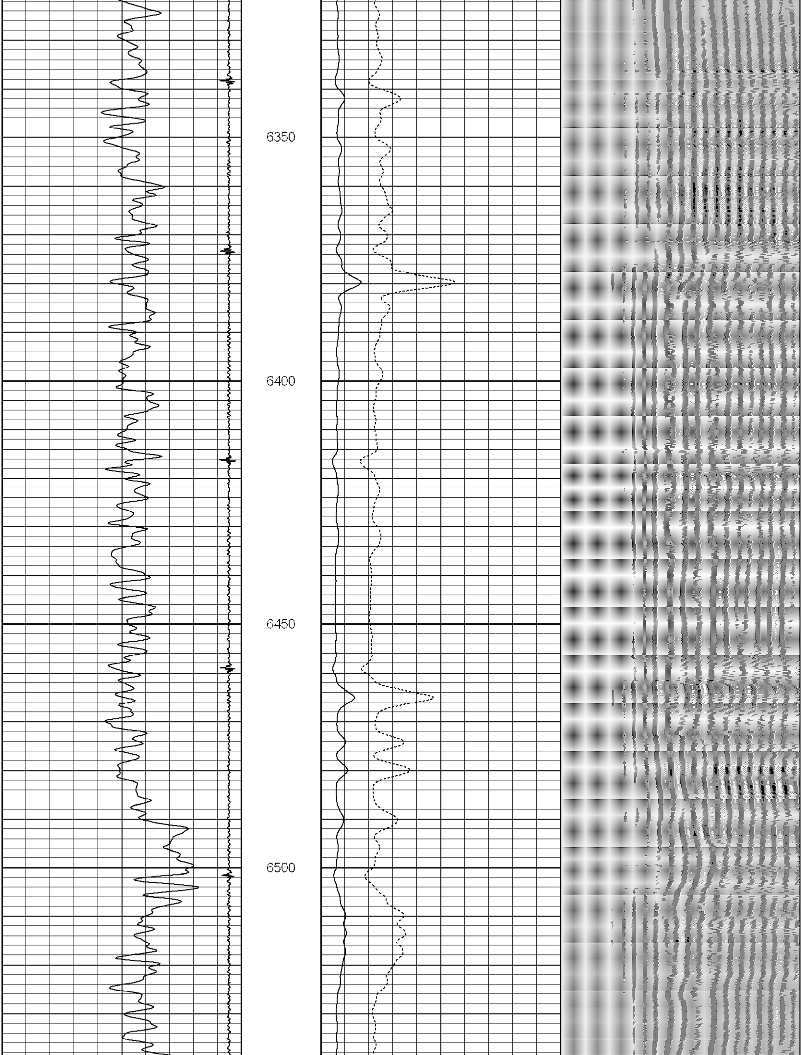


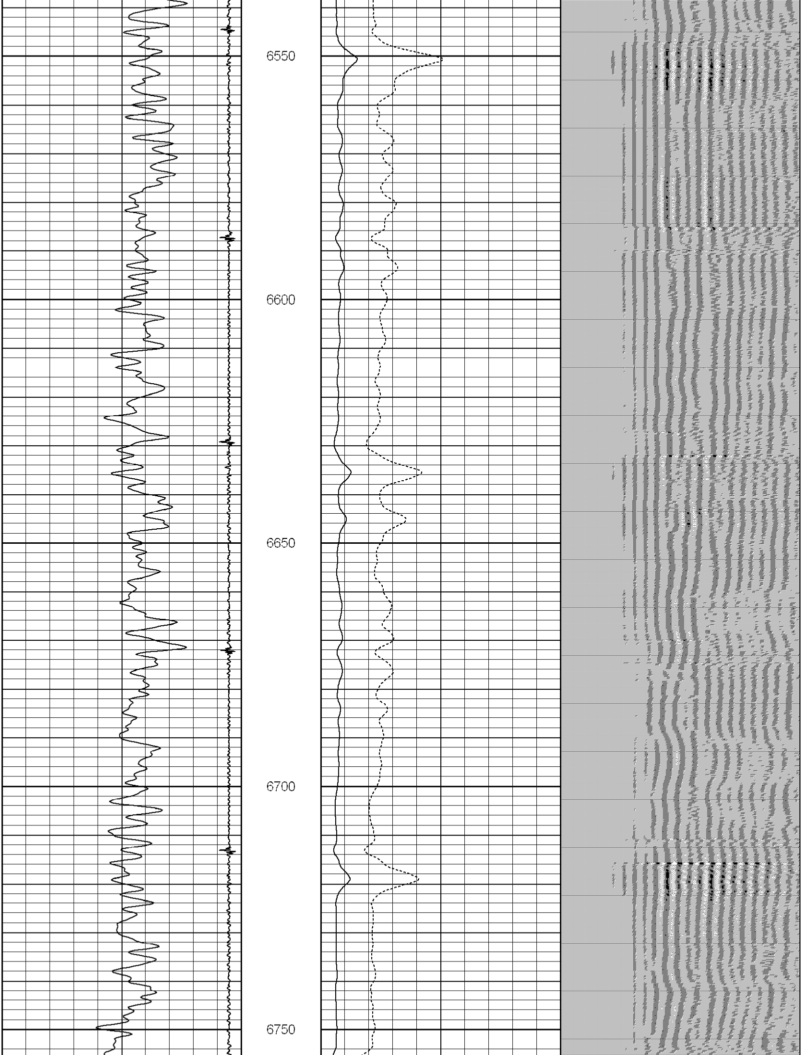


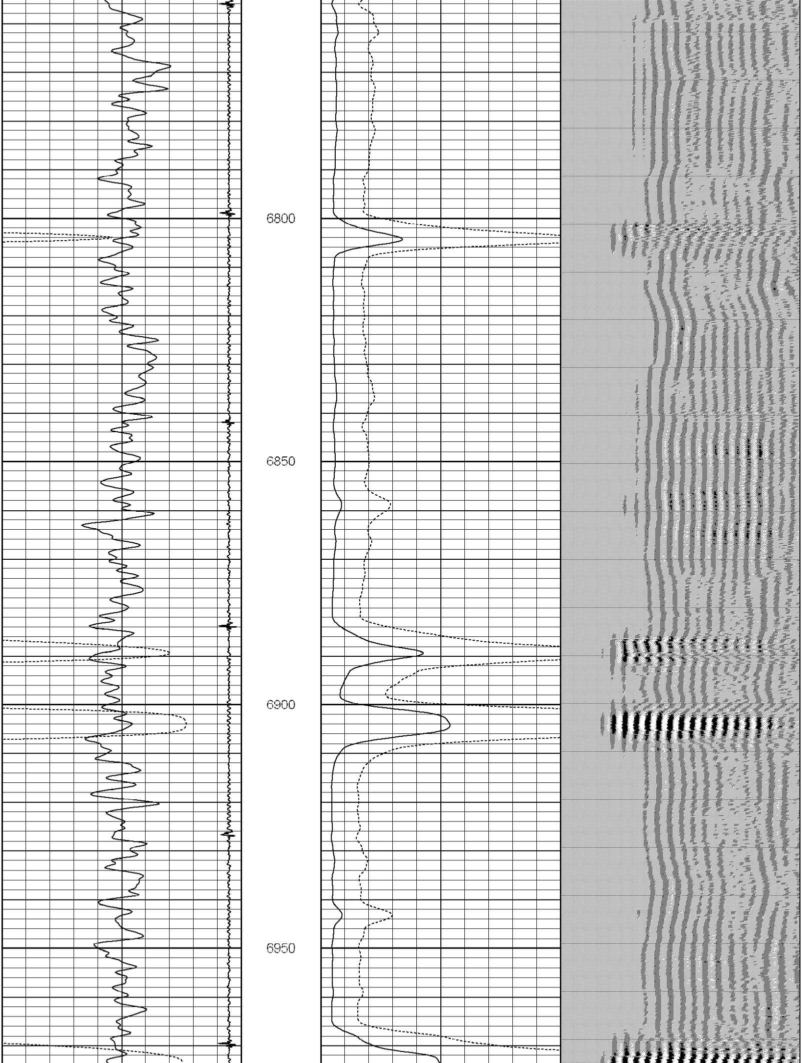


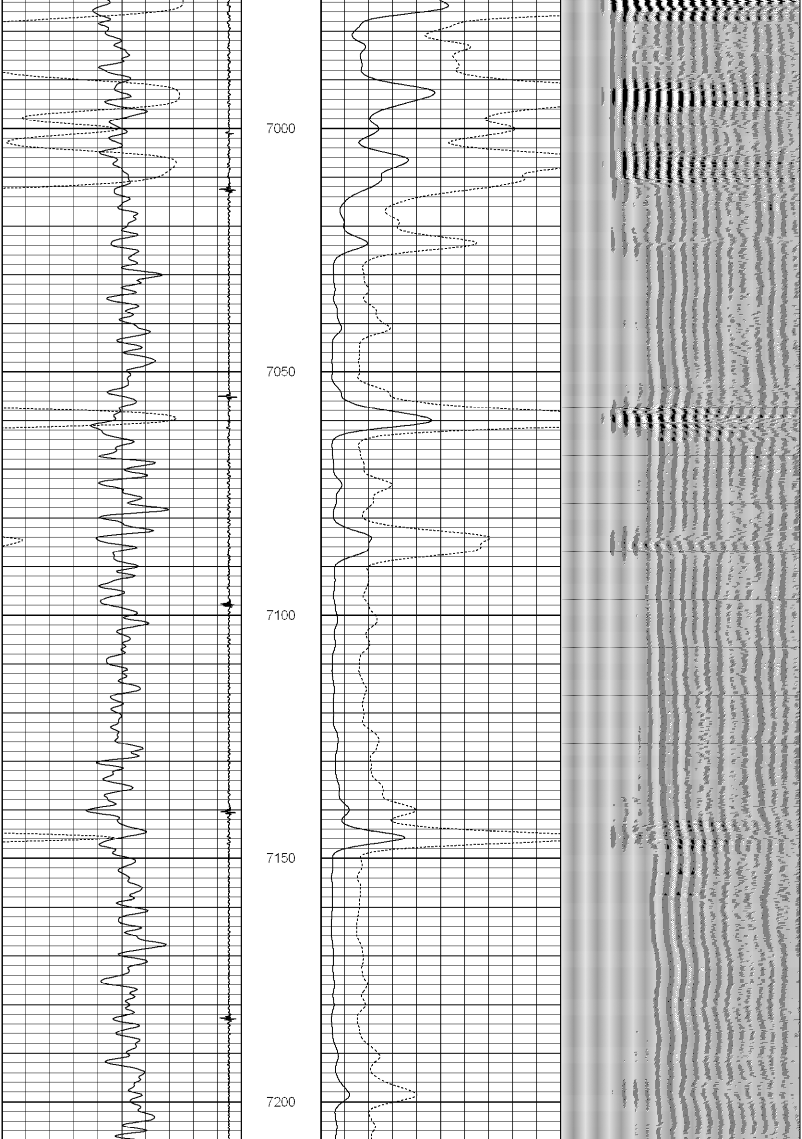


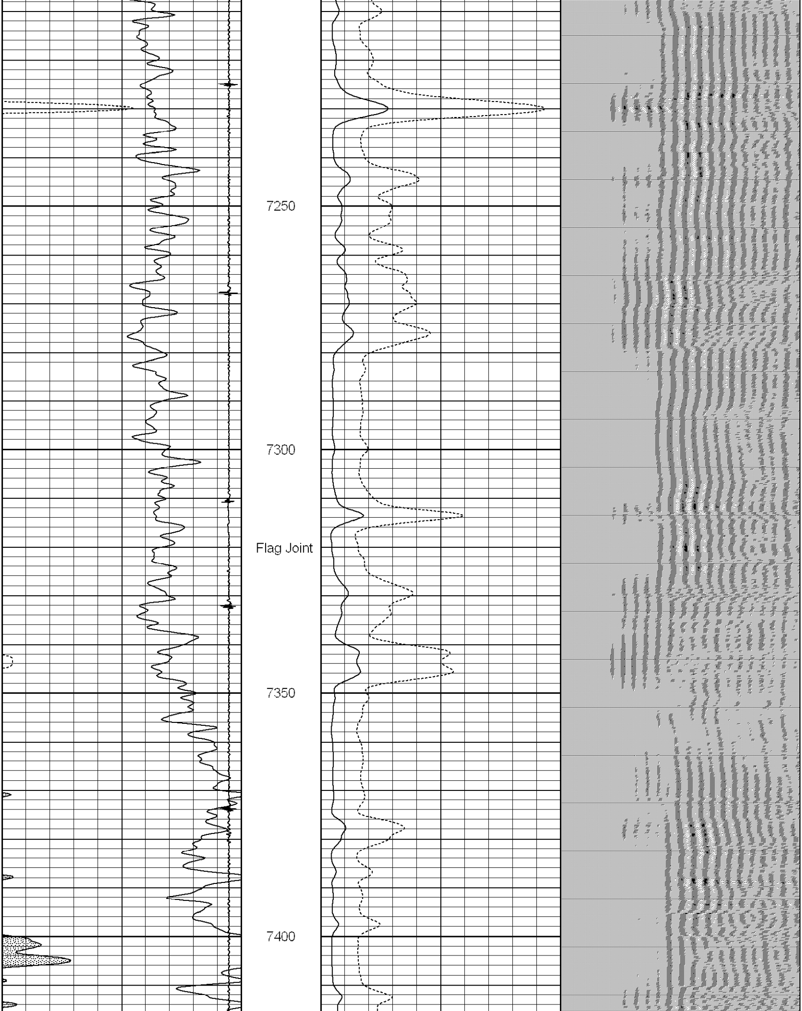


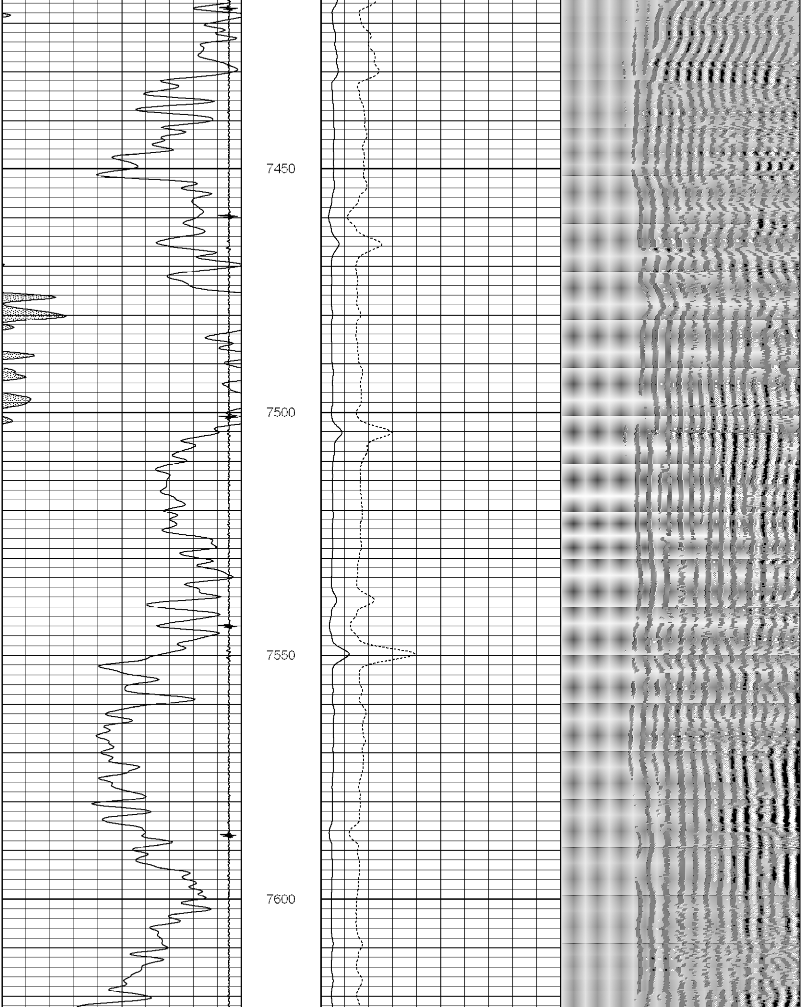


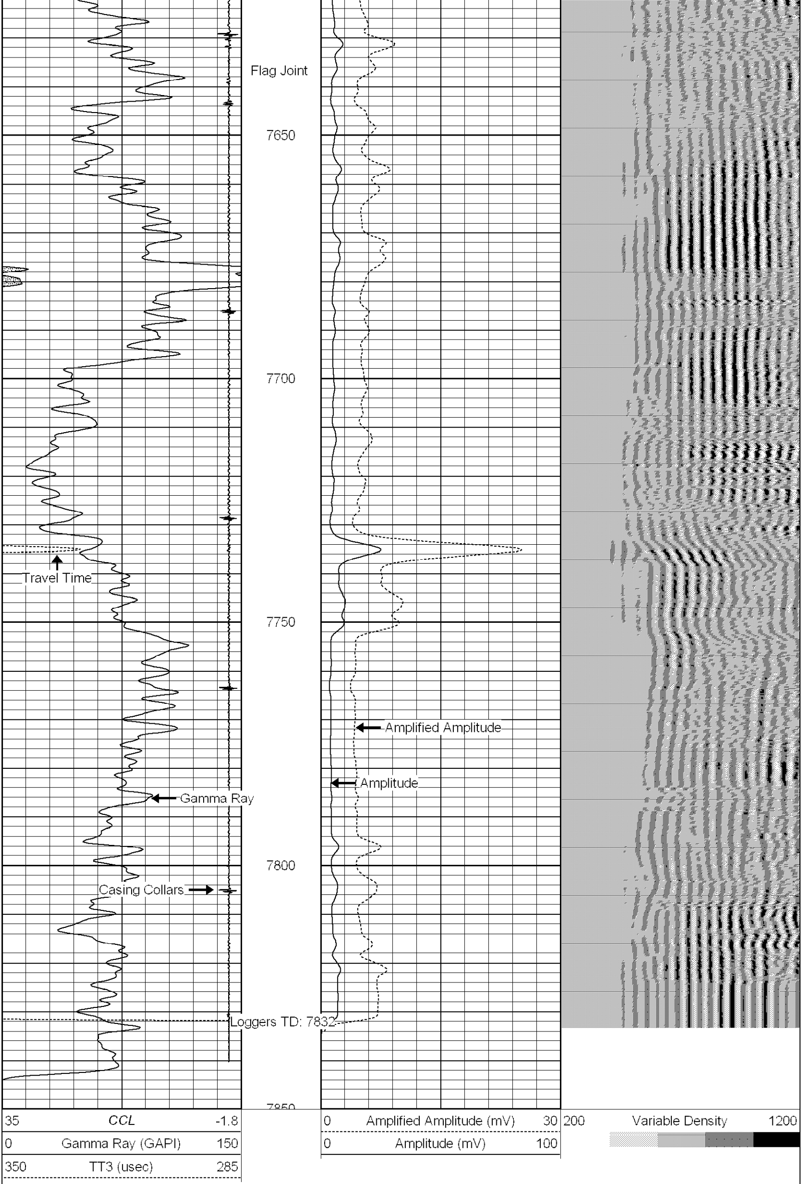












Calibration Report

Database File: cbldonaldson usx ee29-12d.db
Dataset Pathname: pass3
Dataset Creation: Fri Oct 14 11:22:12 2011 by Log SCH 110722

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110809

SHOP CALIBRATION

Fri Oct 14 08:17:18 2011

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			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: Fri Oct 14 06:30:03 2011

Depth: 587.5 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0116943	0.0116211	V
Reading in Free Pipe:	2.498	2.3988	V
Gain:	32.2954	34.0134	
Offset:	0.522327	-0.395272	