Company	NOBLE ENERGY INC.
Well	LUCCI STATE B01-69HNL
Field	WATTENBERG
County	WELD
State	COLORADO

NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND

Company	NOBLE ENERGY INC.		
Well	LUCCI STATE B01-69HNL		
Field	WATTENBERG		
County	WELD	State	COLORADO

Location: API #: 0512336533
BHL: 75' FSL & 535' FEL
NW/NW
SEC 1 TWP 5N RGE 64W

Other Services

Permanent Datum	GL	Elevation	4617
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4641
D.F.
G.L. 4617

Date	APRIL 3, 2013
Run Number	ONE
Depth Driller	15638
Depth Logger	6924
Bottom Logged Interval	6924
Top Log Interval	SURFACE
Open Hole Size	8-3/4
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	217° F
Estimated Cement Top	1880
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	2-3/4 PROBE 101020
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	BILL MANSFIELD

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36# J-55	24	616
Prot. String				
Production String	7	26# P-110	24	6988
Liner	4-1/2	11.6# P-110	6880.1	15638

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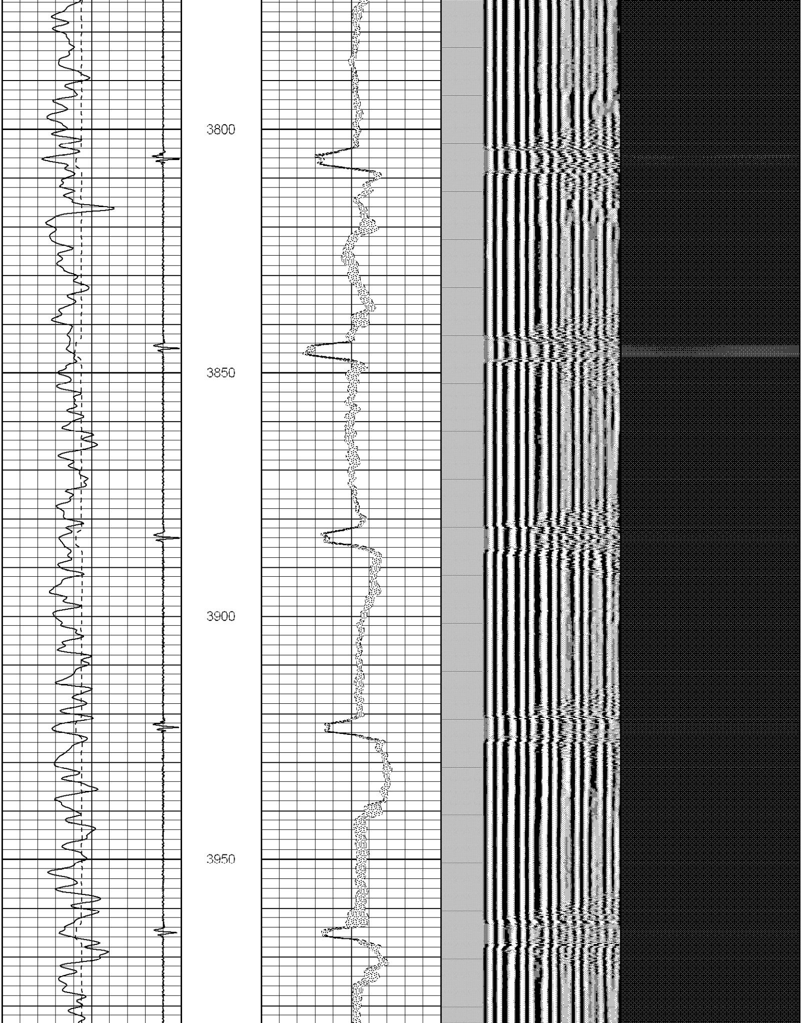
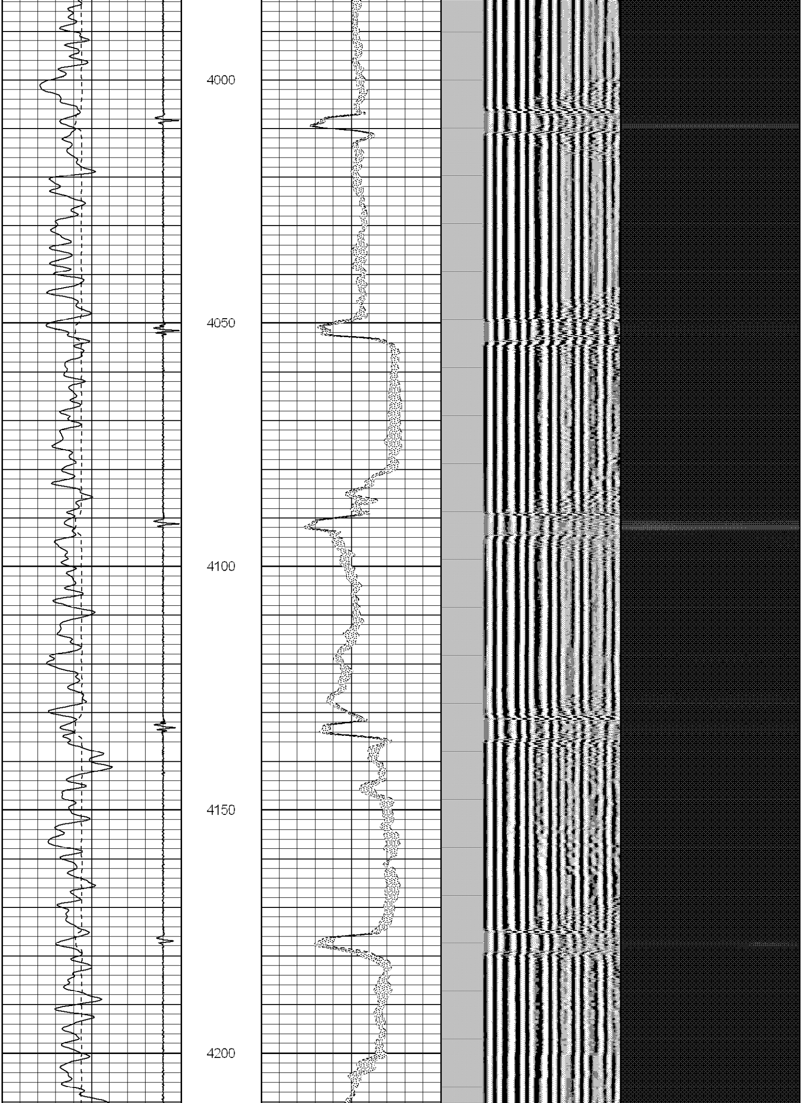
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

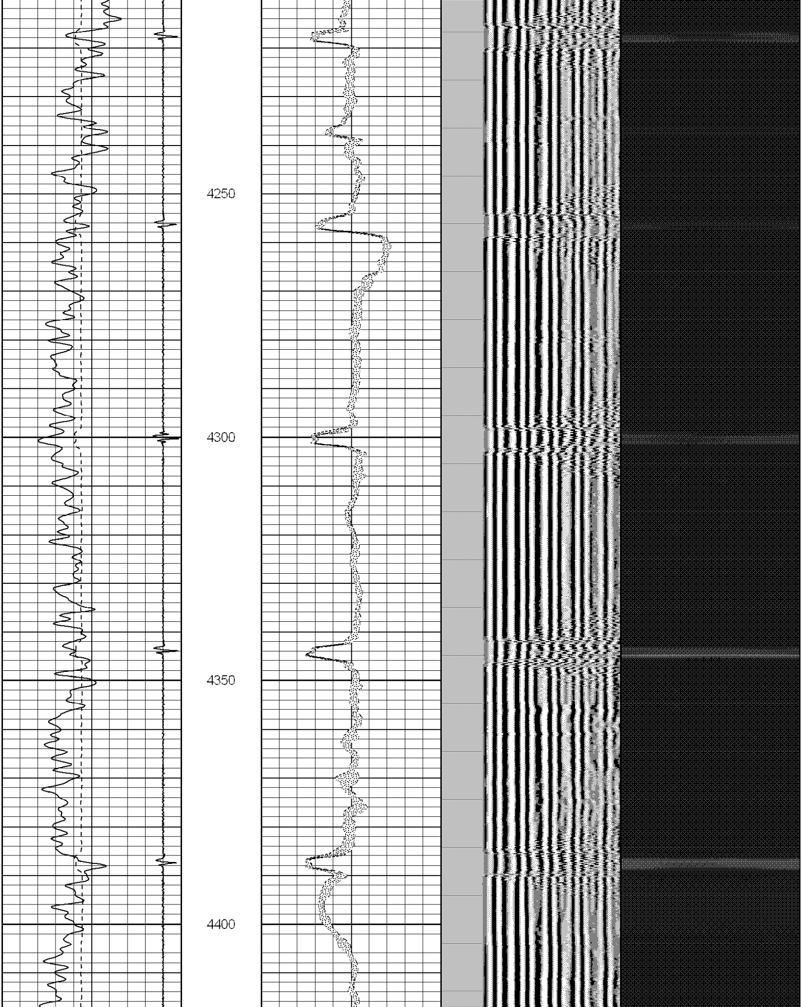
Comments

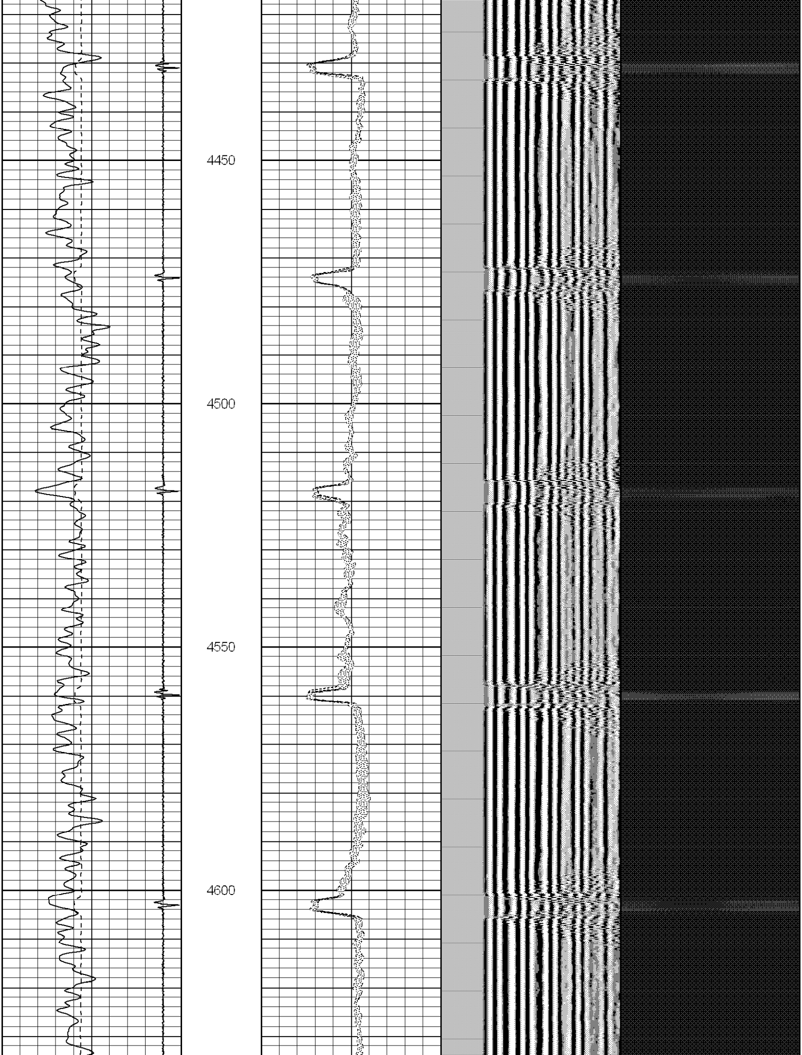
THANK YOU FOR CHOOSING NCPS!!!!
LOG NOT CORRELATED
WCR 59 & WCR 62, E.2, S INTO
WEST WELL OF A 2 WELL PAD

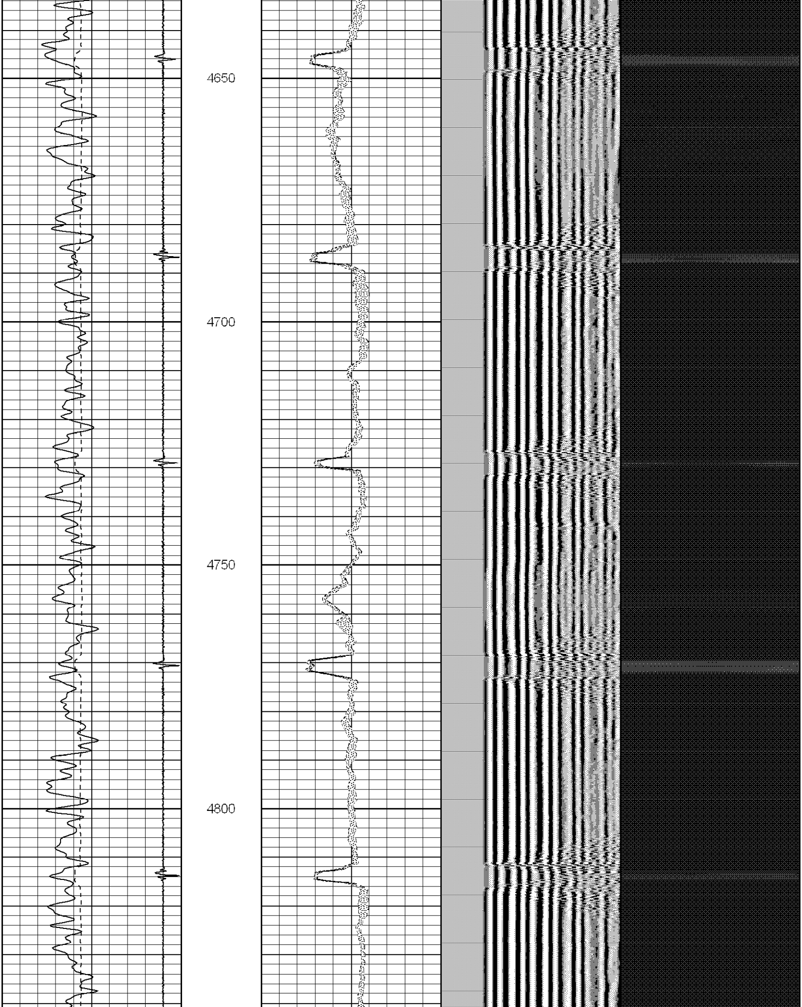
Database File:	cbl noble lucci state b01-69hnl.db
Dataset Pathname:	pass4
Presentation Format:	sector2
Dataset Creation:	Wed Apr 03 08:59:33 2013 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

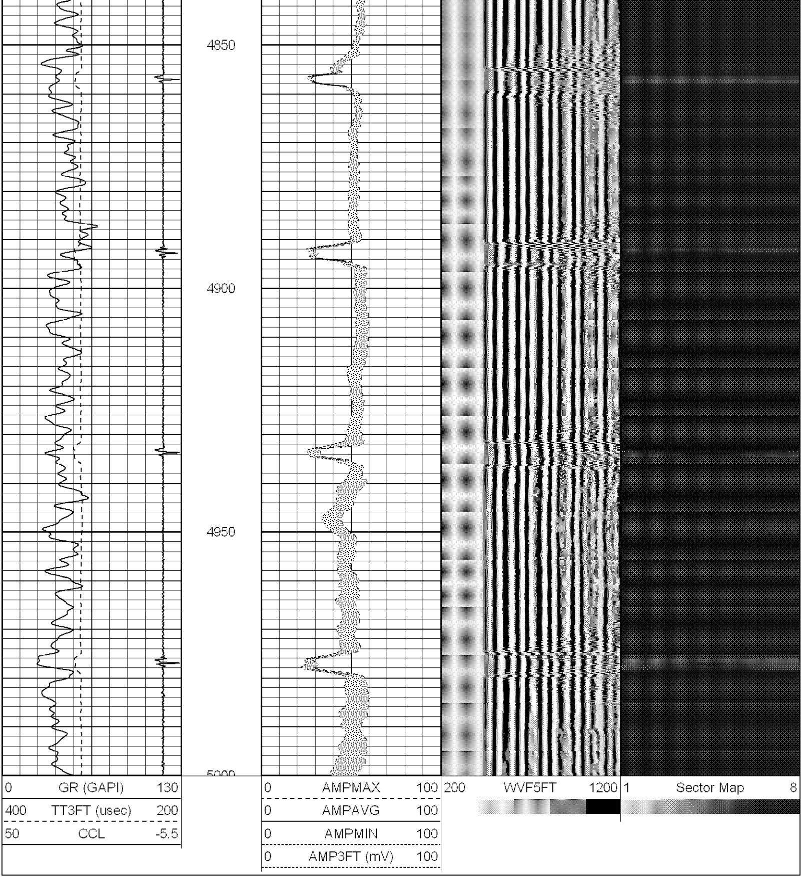




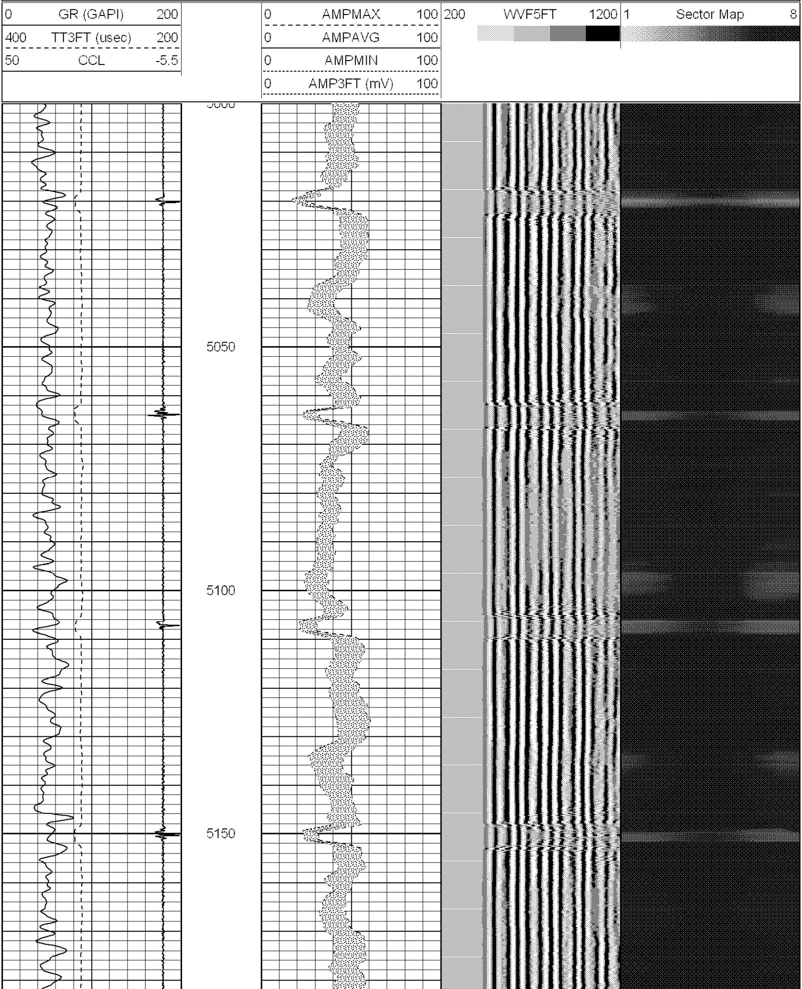


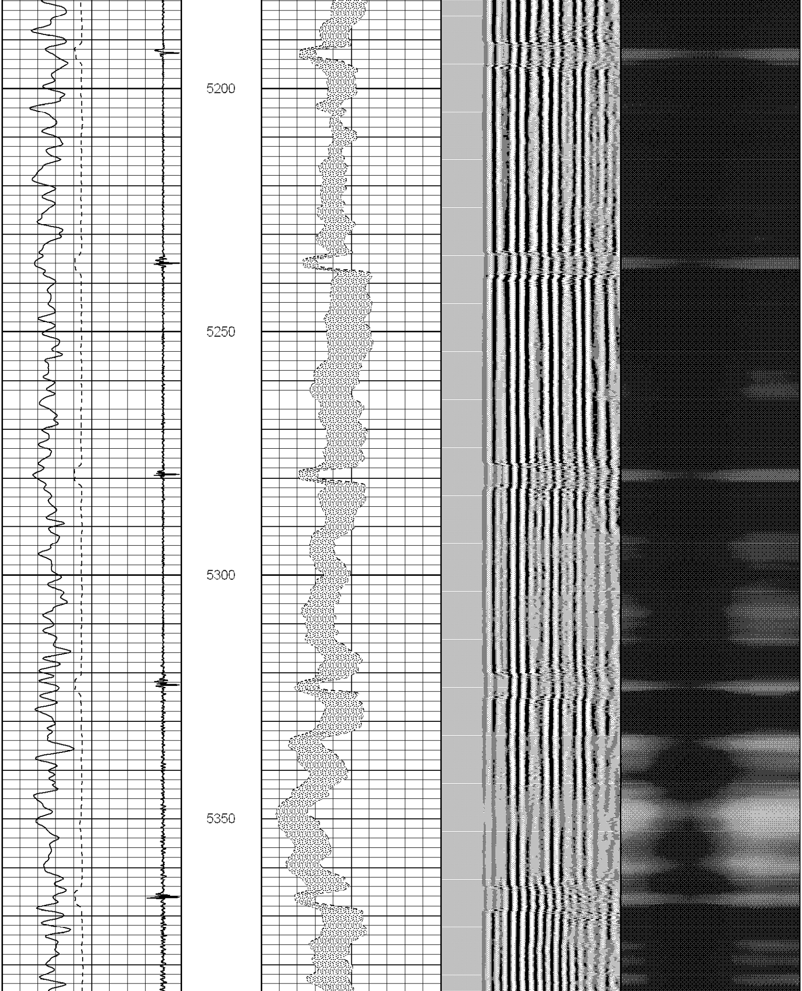


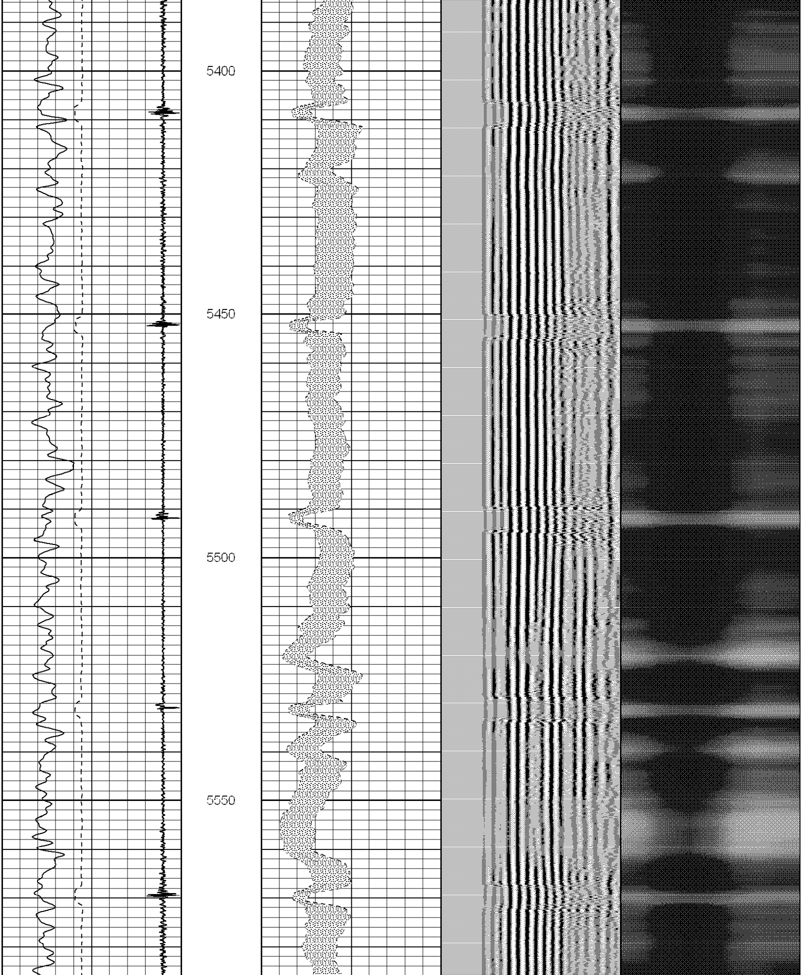


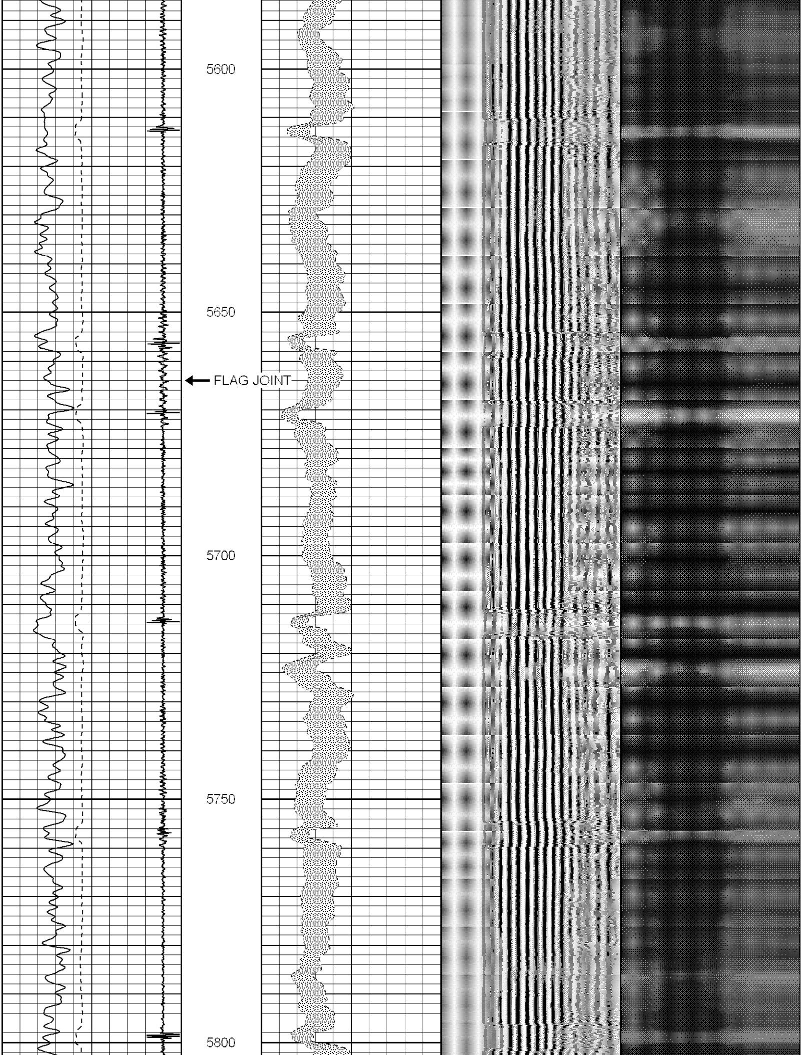


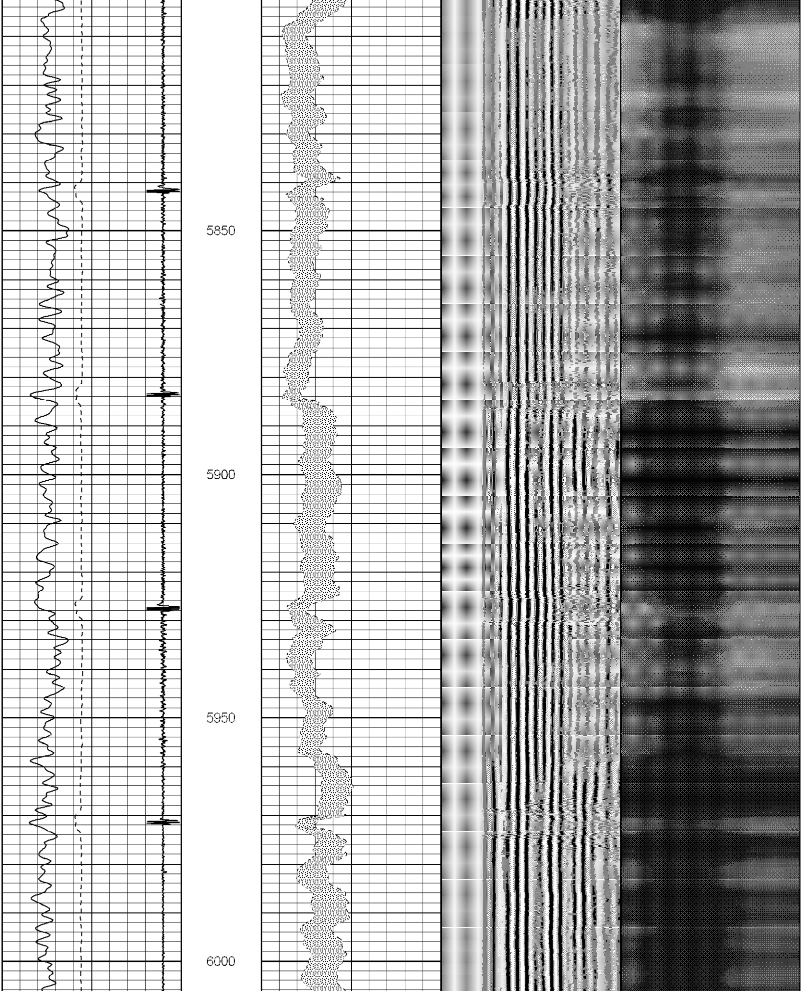
Database File: cbl noble lucci state b01-69hnl.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Wed Apr 03 08:37:48 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

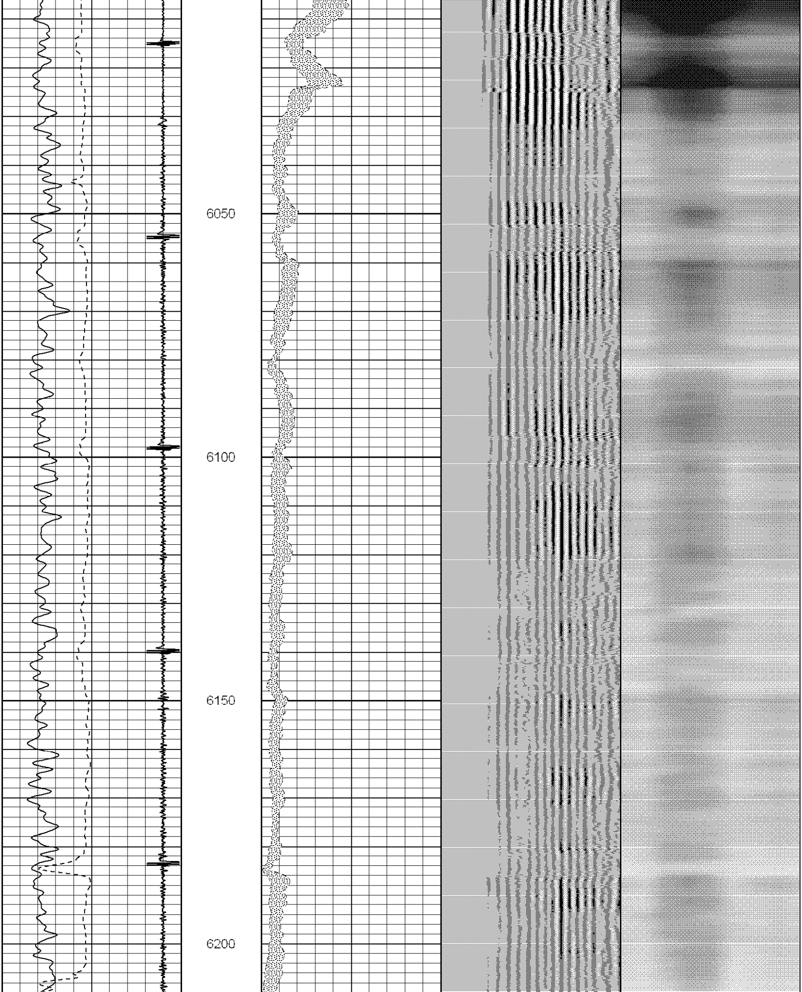


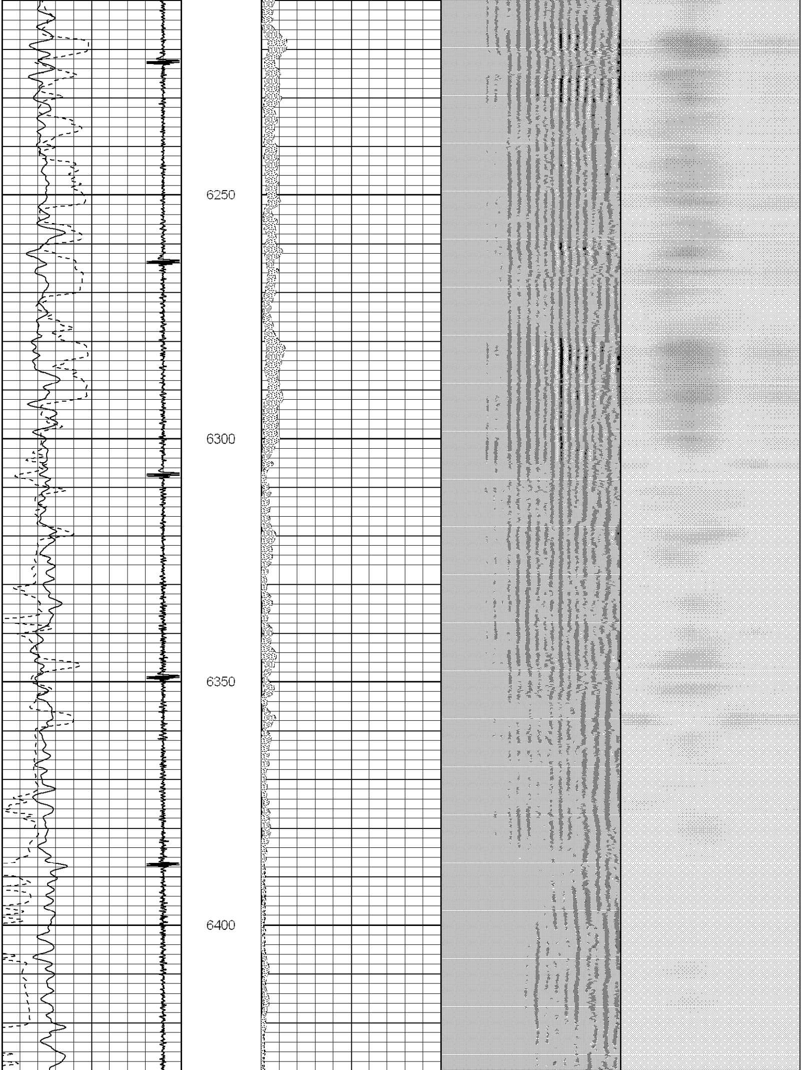


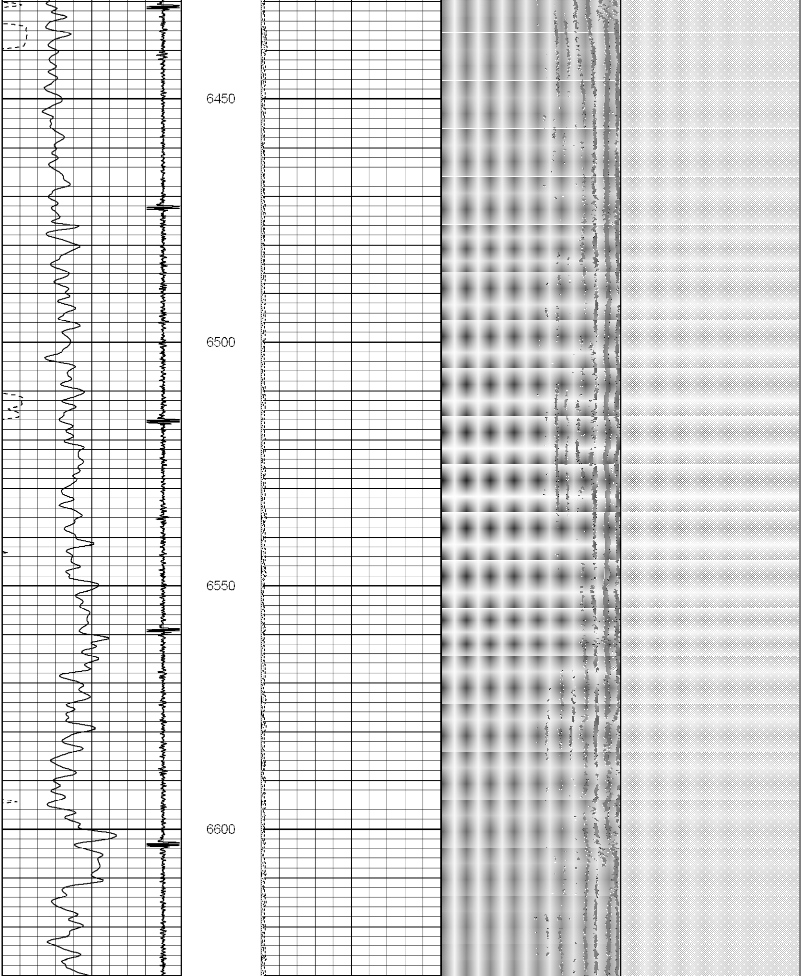


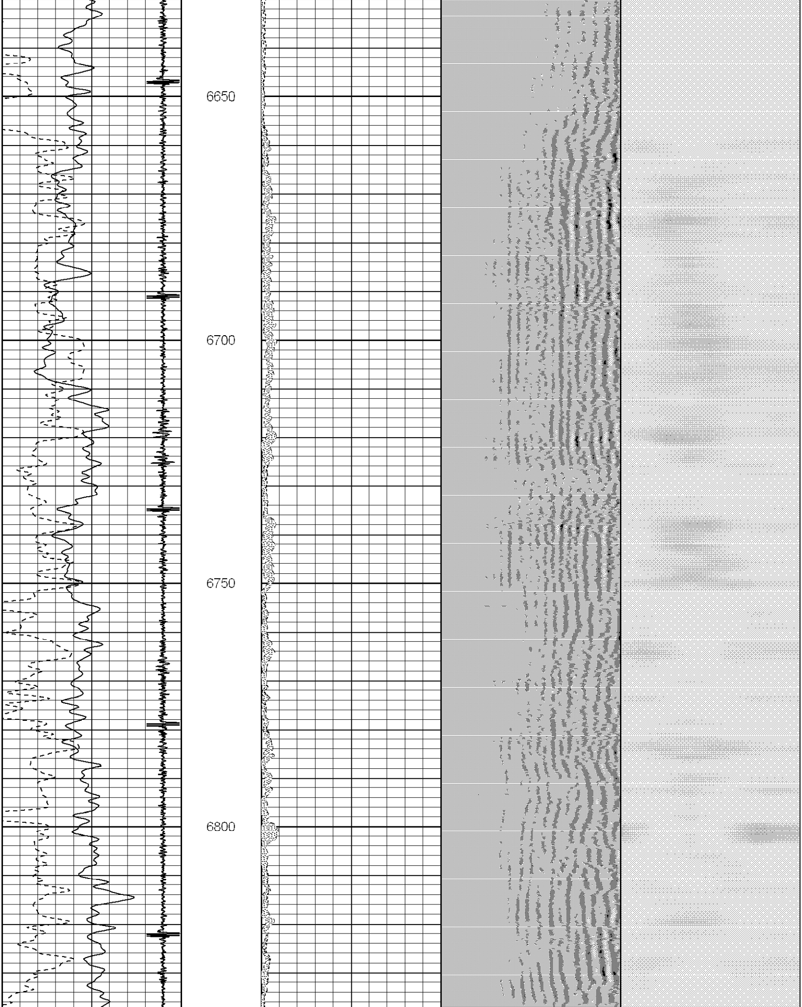


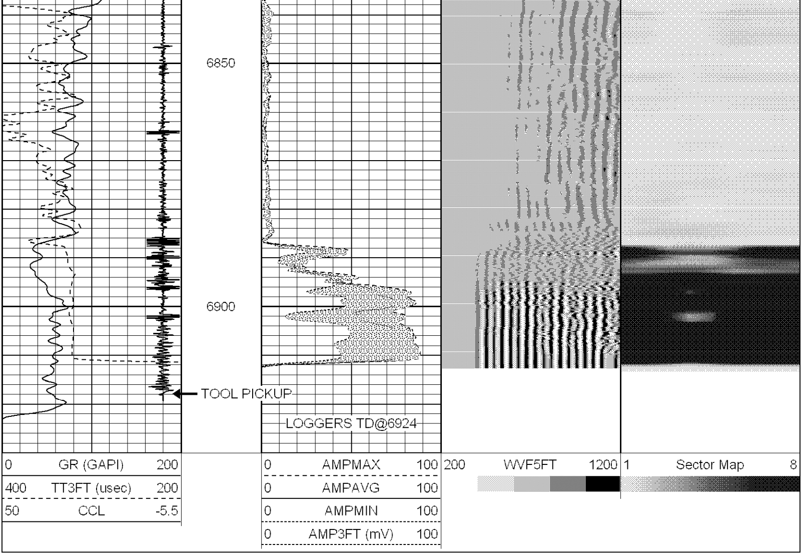












Calibration Report

Database File: cbl noble lucci state b01-69hnl.db
Dataset Pathname: pass3
Dataset Creation: Wed Apr 03 08:37:48 2013 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION

Thu Mar 07 06:39:34 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5000			GAPI/cps

PRIMARY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 101020
Tool Model: Probe

Calibration Casing Diameter: 7.000 in
Calibration Depth: 293.025 ft

Master Calibration, performed Wed Apr 03 08:19:43 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.003	1.500	62.165	60.919	1.038
CAL	0.007	1.406				
5'	0.008	1.170	1.500	62.165	52.179	1.103
SUM						
S1	0.007	1.121	0.000	62.165	55.841	-0.416
S2	0.008	1.099	0.000	62.165	56.985	-0.438
S3	0.007	1.027	0.000	62.165	61.005	-0.456
S4	0.008	0.923	0.000	62.165	67.909	-0.512
S5	0.007	0.844	0.000	62.165	74.302	-0.545
S6	0.007	0.856	0.000	62.165	73.232	-0.545
S7	0.008	0.981	0.000	62.165	63.842	-0.486
S8	0.007	1.102	0.000	62.165	56.780	-0.426

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	1.406	1.000	0.000

Air Zero Calibration, performed Wed Apr 03 08:20:01 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.008	0.000	-0.000
5'	0.008	0.000	0.000
SUM			
S1	0.007	0.000	0.000
S2	0.008	0.000	-0.000
S3	0.007	0.000	0.000
S4	0.008	0.000	-0.000
S5	0.007	0.000	-0.000
S6	0.007	0.000	0.000
S7	0.008	0.000	0.000
S8	0.007	0.000	0.000