NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	LUCCI STATE B03-69HNL
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well LUCCI STATE B03-69HNL
Field WATTENBERG
County WELD State COLORADO
Location: API #: 0512336354
BHL: 75' FSL & 535' FWL
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	17000
Depth Logger	6910
Bottom Logged Interval	6910
Top Log Interval	SURFACE
Open Hole Size	8-3/4
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	219°
Estimated Cement Top	1110
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

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36# J-55	24	633.3
Prot. String				
Production String	7	26# P-110	24	7022.4
Liner	4-1/2	11.6# P-110	6874.1	16990

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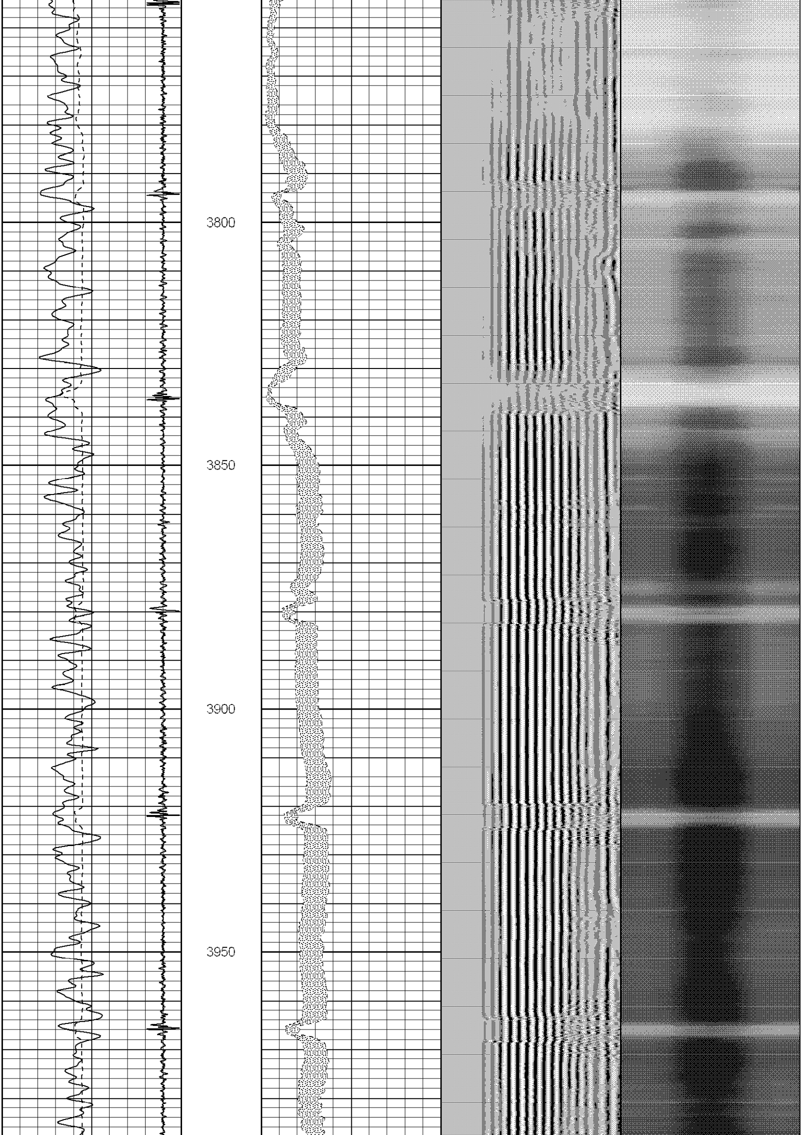
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

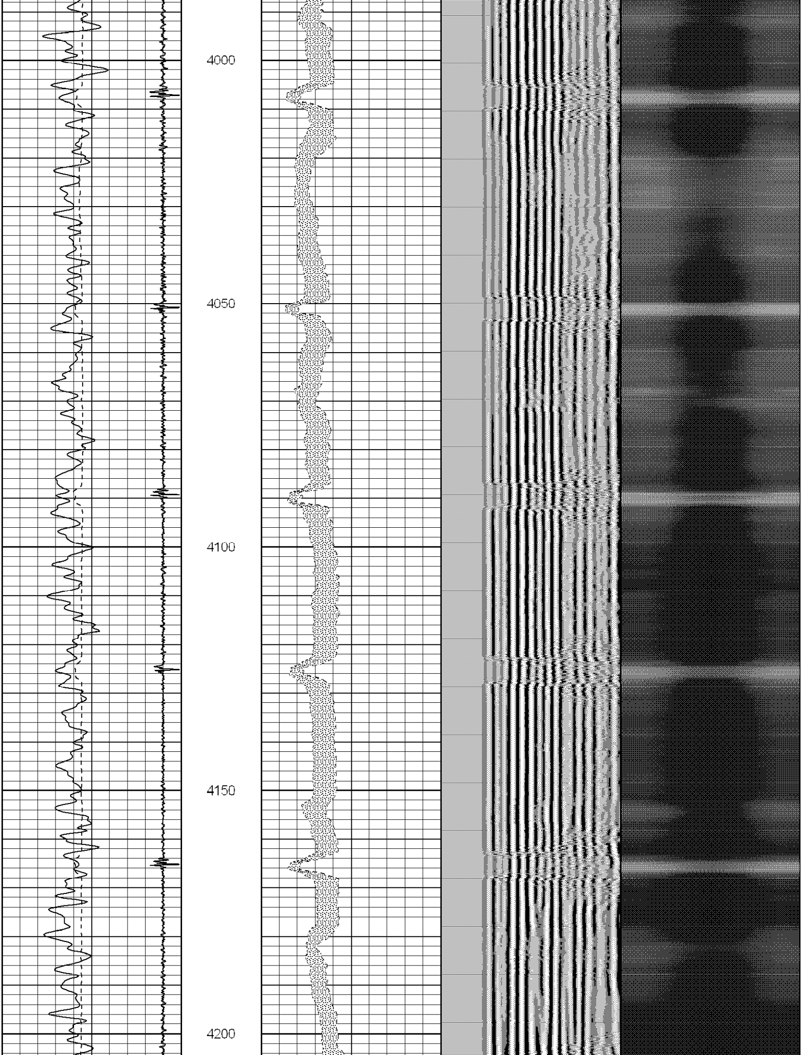
Comments

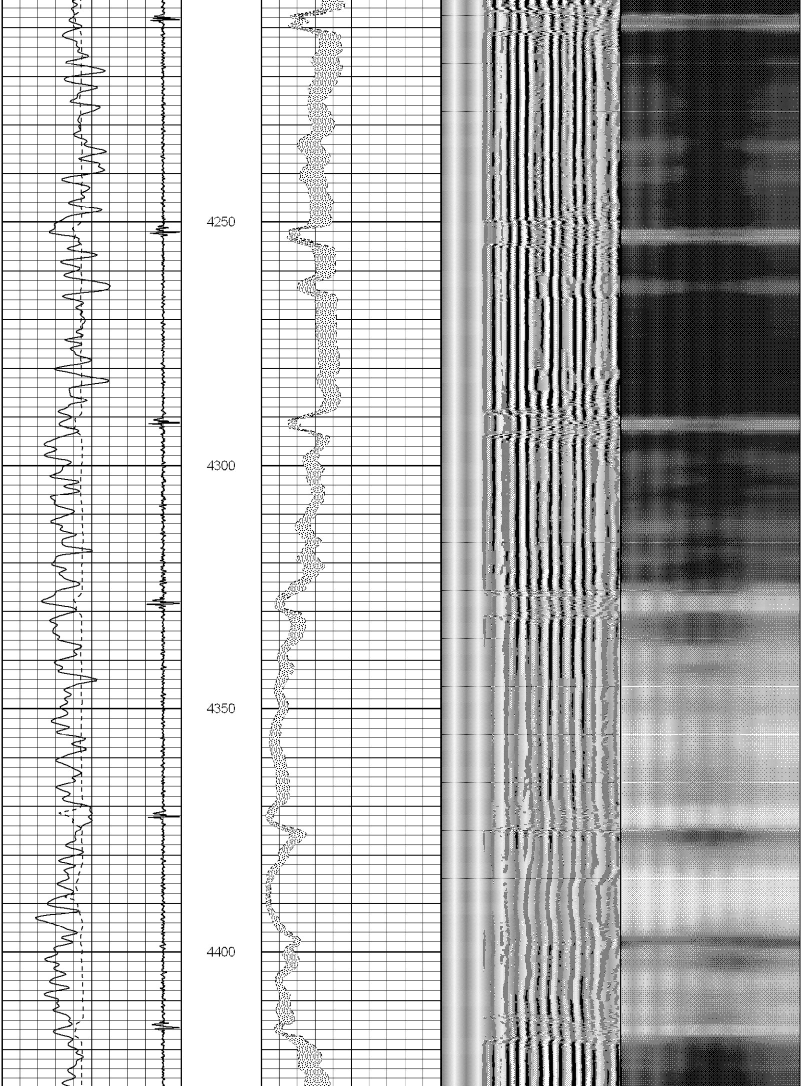
THANK YOU FOR CHOOSING NCPS!!!!
LOG NOT CORRELATED
WCR 59 & WCR 62, E.2, S INTO
EAST WELL OF A 2 WELL PAD

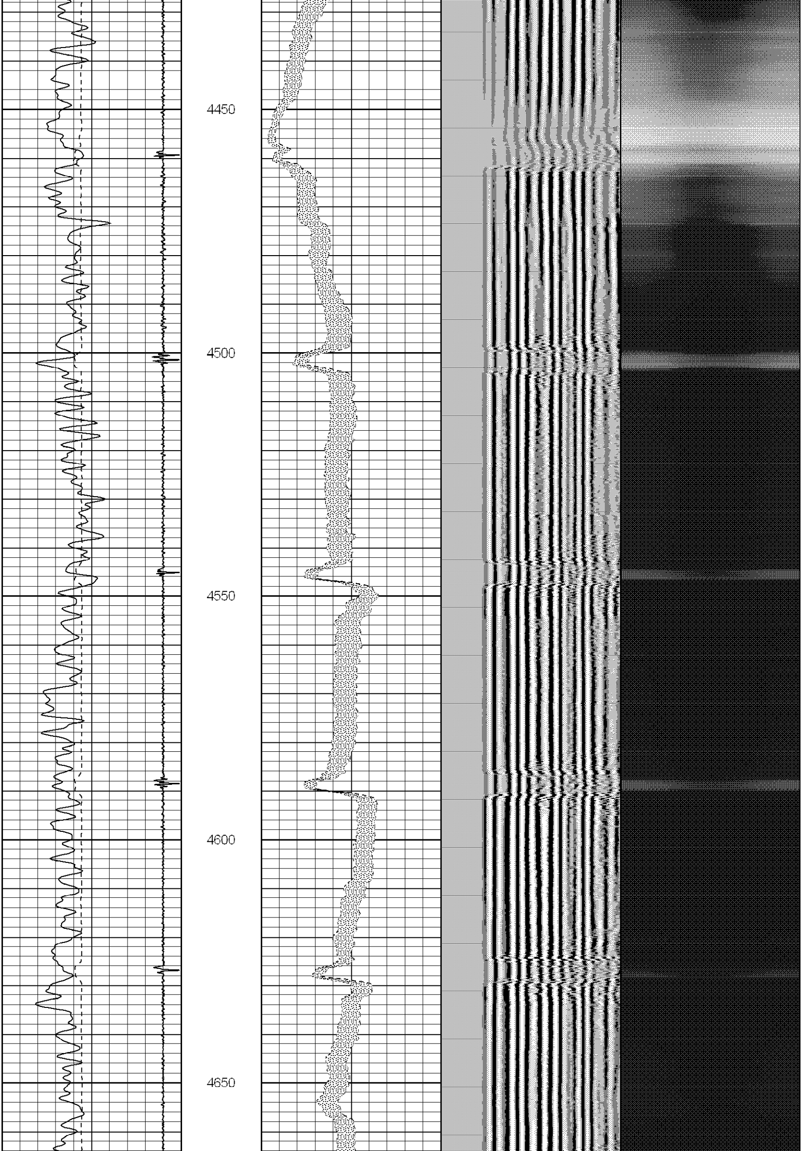
Database File: cbl noble lucci state b03-69hnl.db
Dataset Pathname: pass4
Presentation Format: sector2
Dataset Creation: Wed Apr 03 07:27:49 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

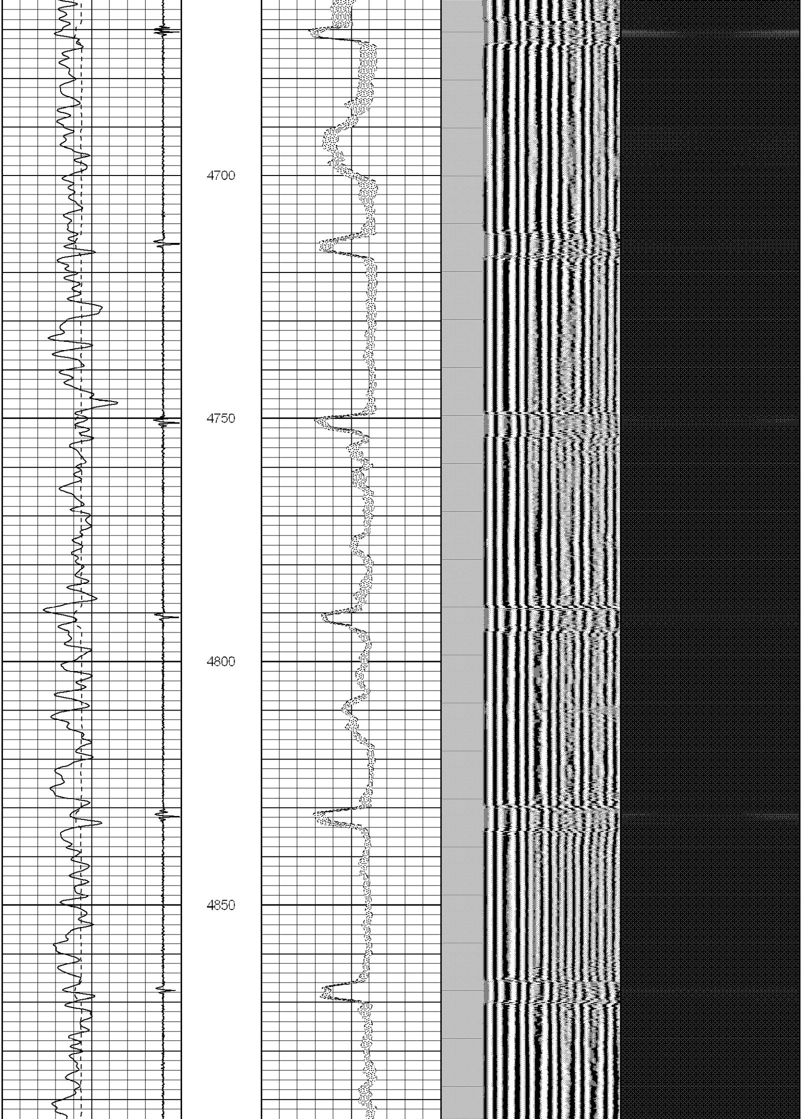
0 GR (GAPI) 130	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

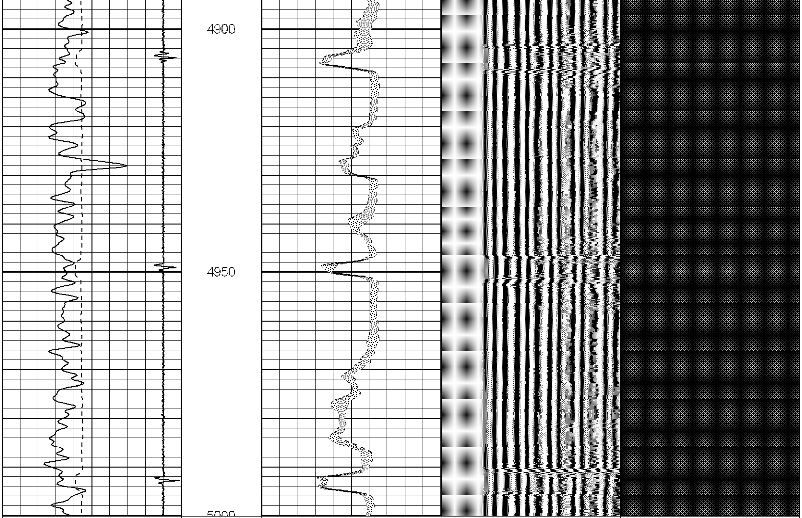












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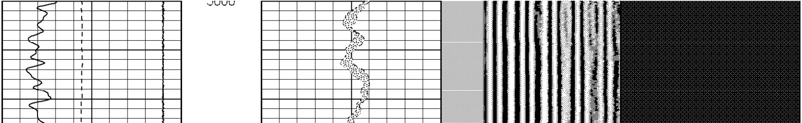
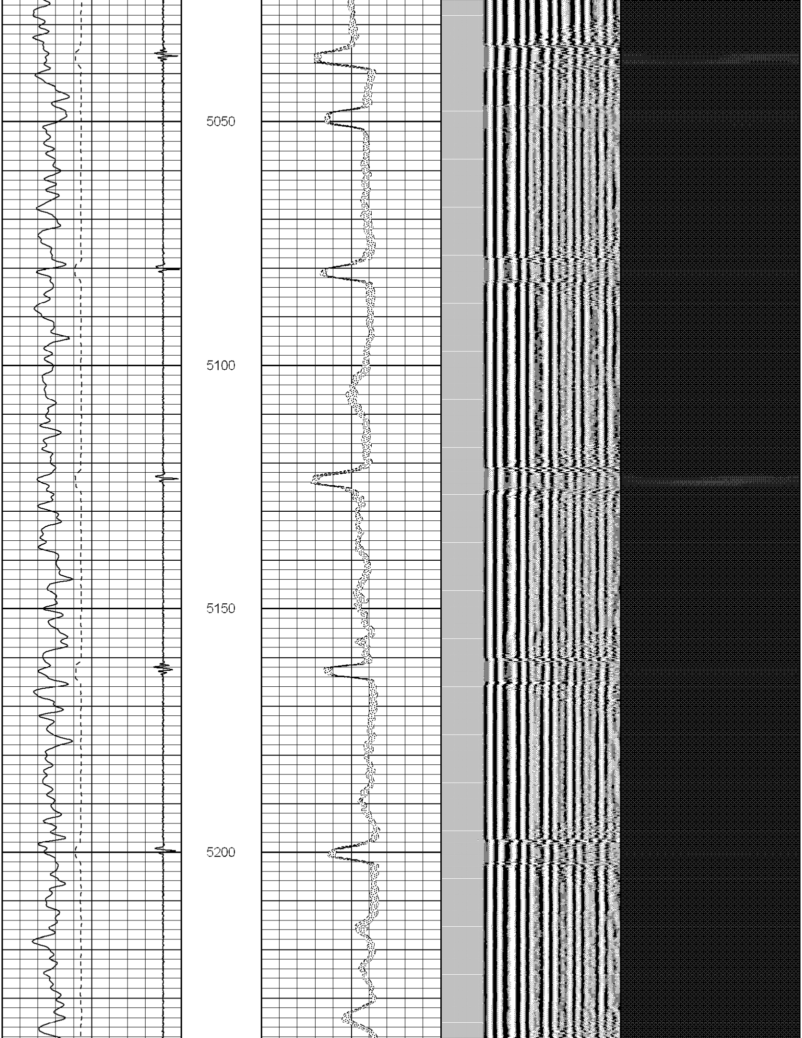
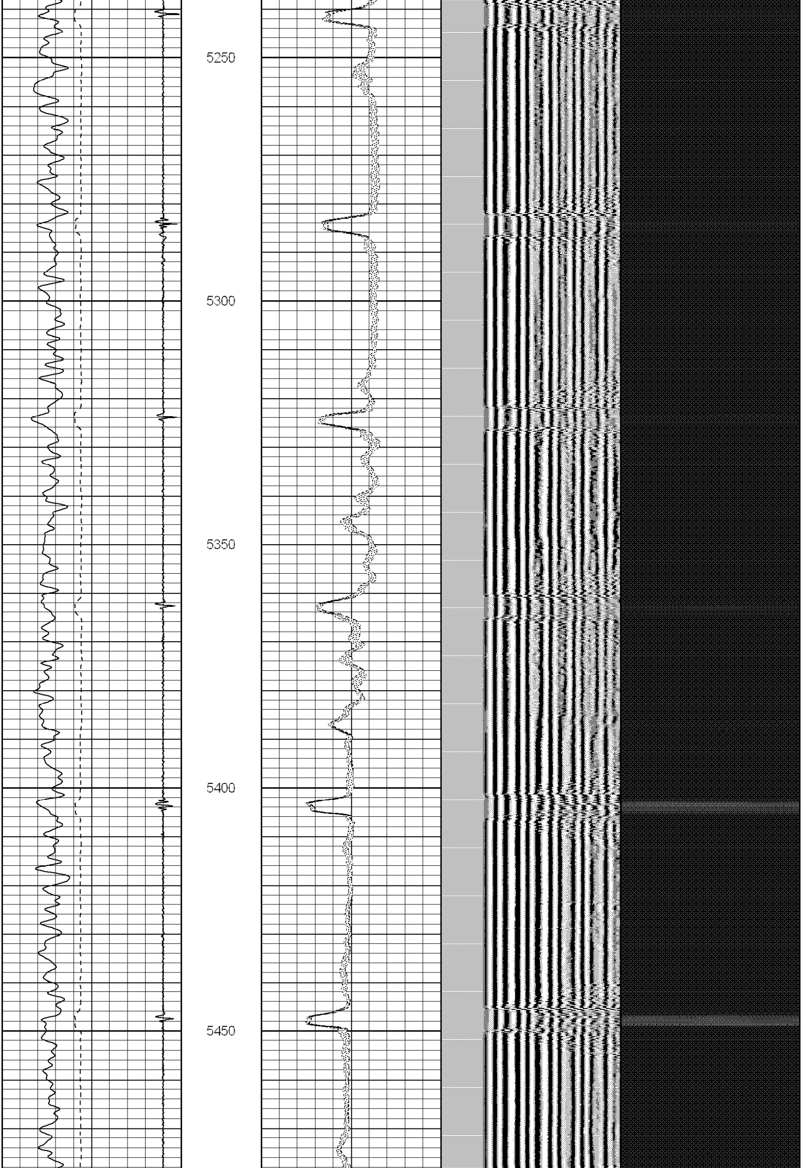
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

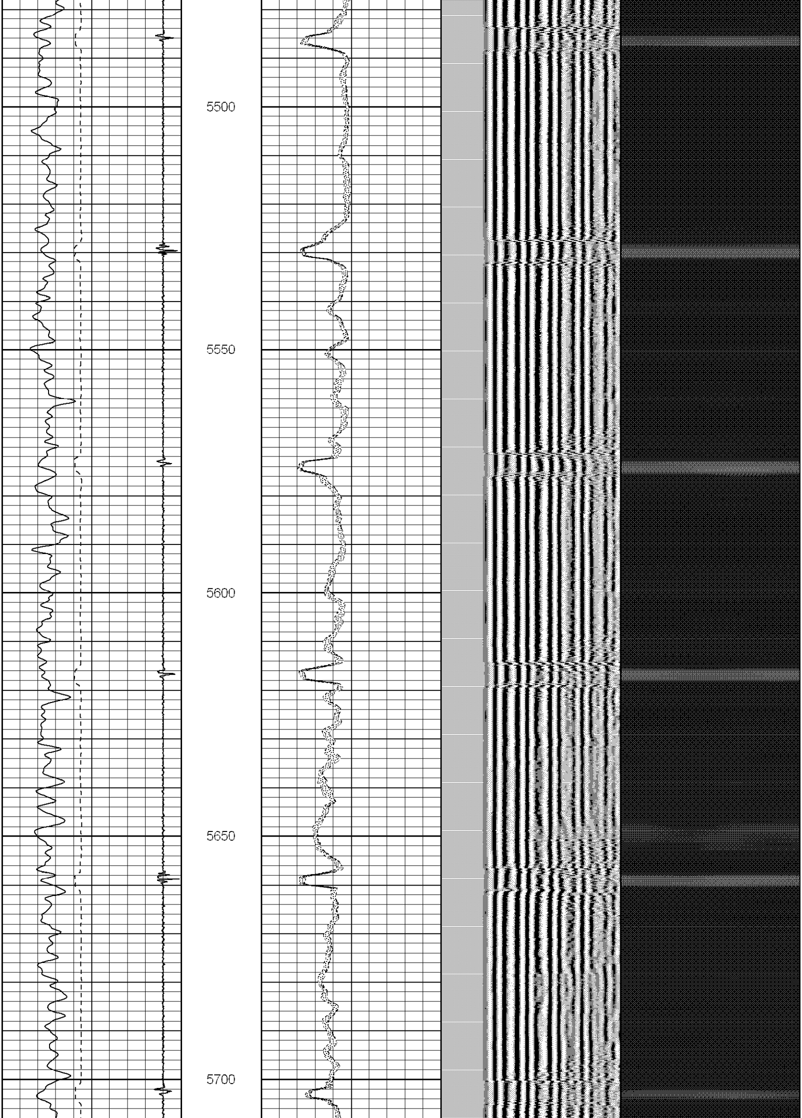
Database File: cbl noble lucci state b03-69hnl.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Wed Apr 03 07:06:47 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

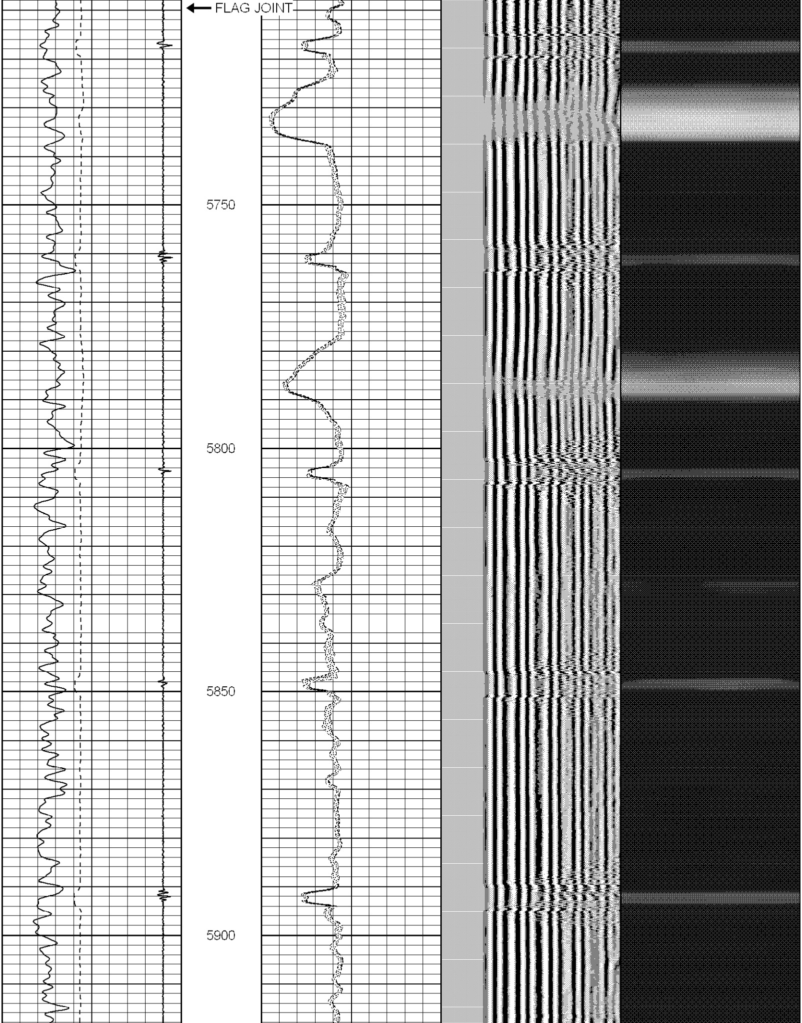
0 GR (GAPI) 200	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

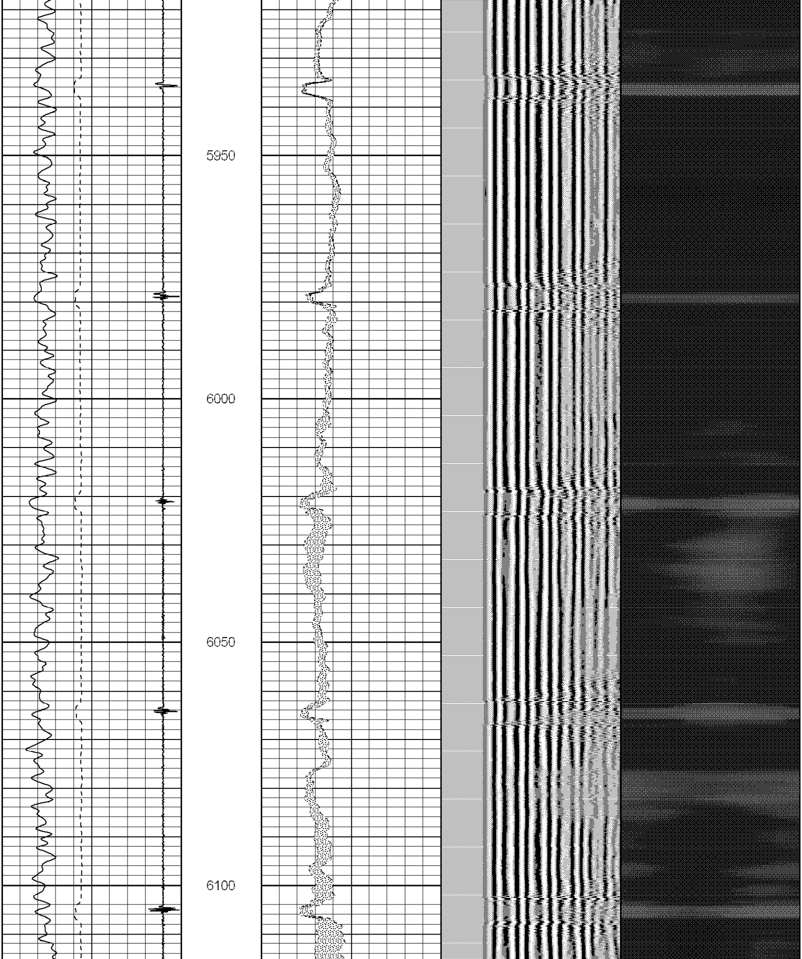


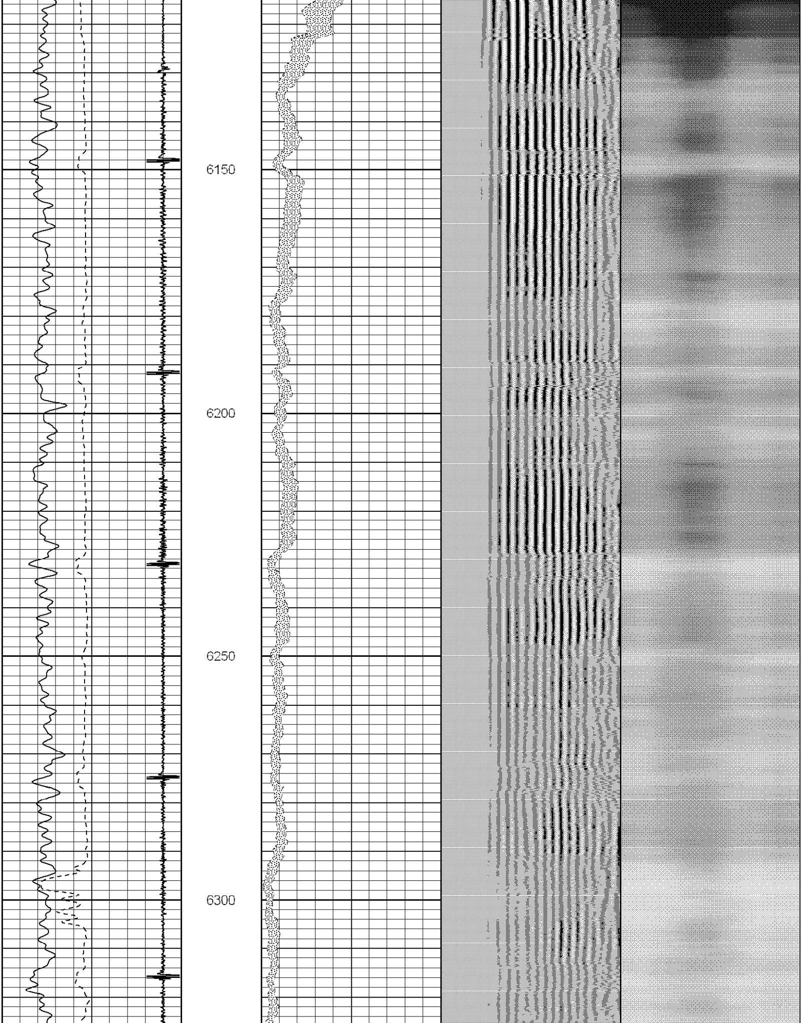


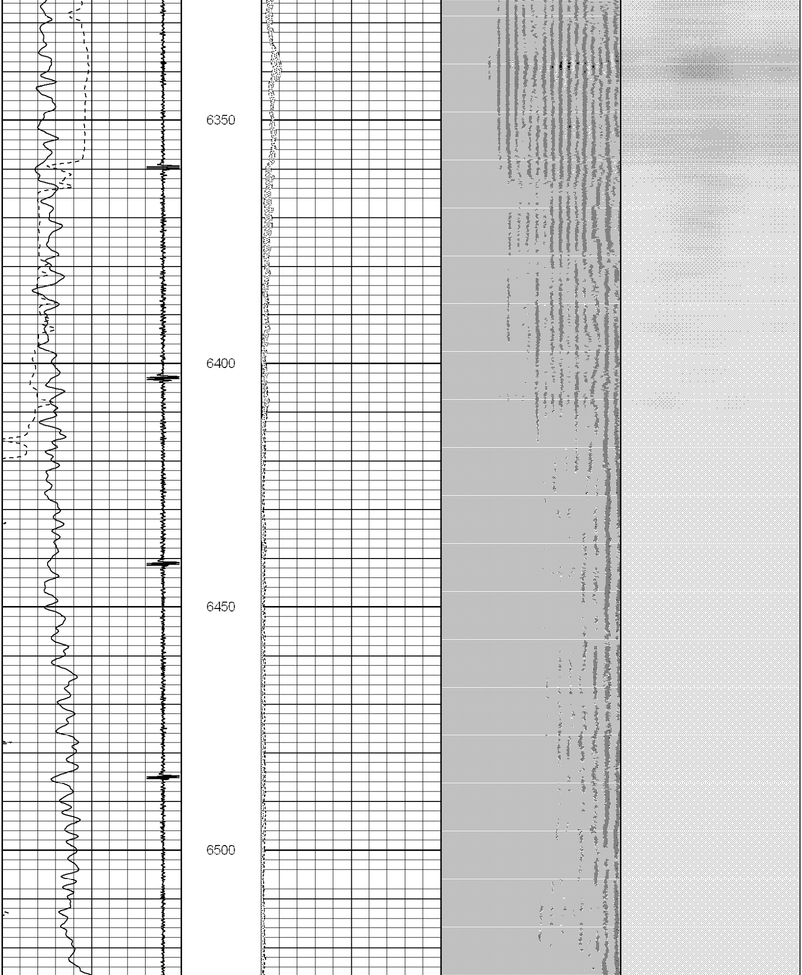


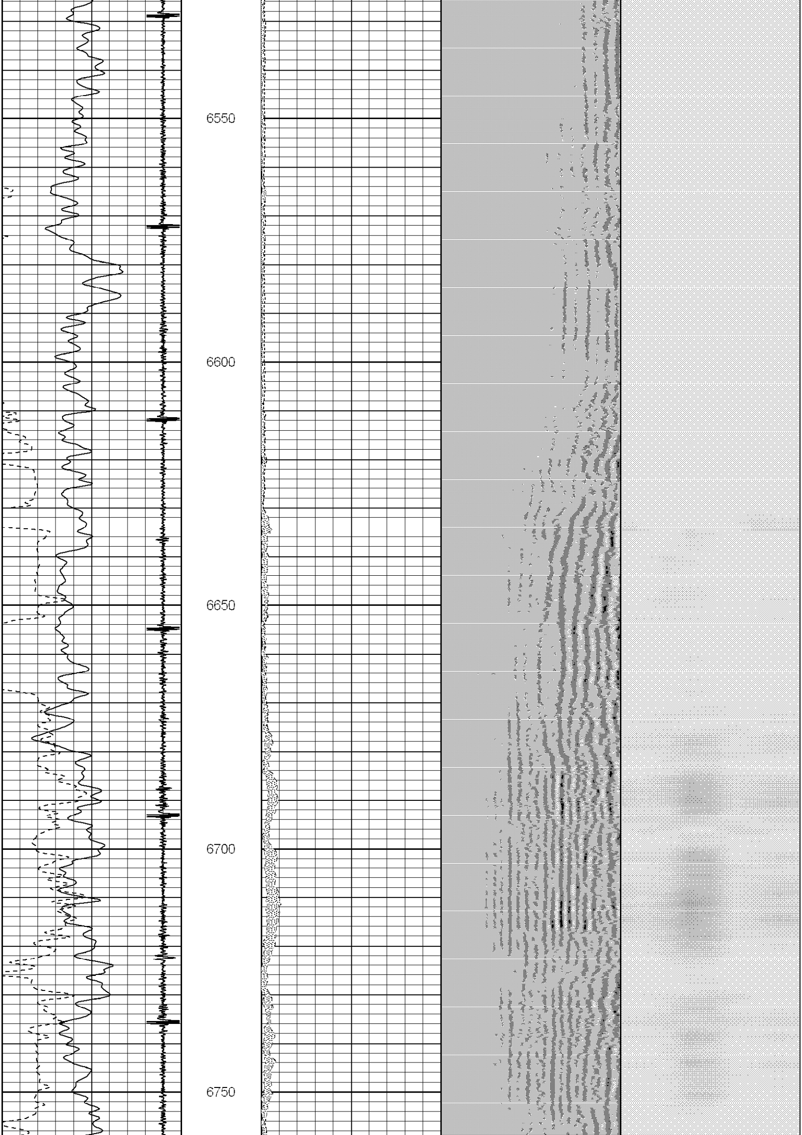


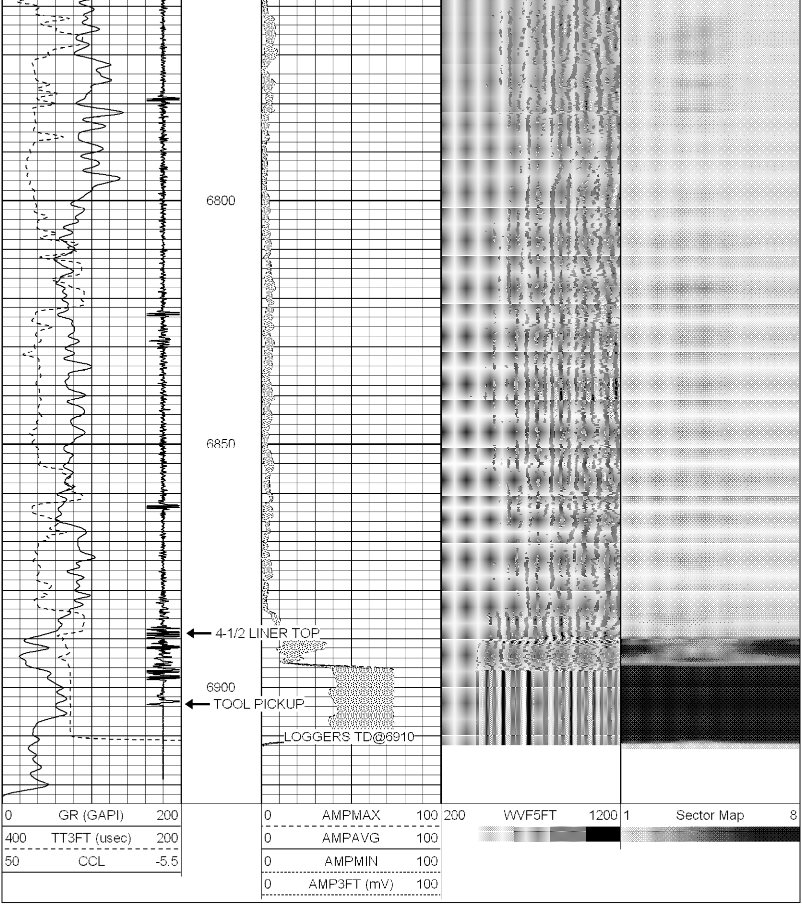












Calibration Report

Database File: cbl noble lucci state b03-69hnl.db
Dataset Pathname: pass3
Dataset Creation: Wed Apr 03 07:06:47 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:	325.467	ft

Master Calibration, performed Wed Apr 03 06:47:23 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	1.023	1.500	62.165	59.738	1.054
CAL	0.007	1.346				
5'	0.007	1.181	1.500	62.165	51.694	1.113
SUM						
S1	0.007	1.122	0.000	62.165	55.761	-0.405
S2	0.008	1.116	0.000	62.165	56.094	-0.421
S3	0.007	1.063	0.000	62.165	58.884	-0.428
S4	0.007	0.976	0.000	62.165	64.154	-0.475
S5	0.007	0.898	0.000	62.165	69.803	-0.512
S6	0.007	0.893	0.000	62.165	70.187	-0.520
S7	0.007	0.988	0.000	62.165	63.375	-0.472
S8	0.007	1.097	0.000	62.165	57.038	-0.420

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	1.346	1.000	0.000

Air Zero Calibration, performed Wed Apr 03 06:47:47 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.007	0.000	0.000
5'	0.007	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	0.007	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