NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well THISTLE DOWN STATE PC F36-69HN
Field WATTENBERG
County WELD
State COLORADO

Company NOBLE ENER INC.
Well THISTLE DOV TATE PC F36-69HN
Field WATTENBER
County WELD State COLORADO

Location: : 0512336391

BHL: 75' FN 35' FWL
SE

SEC 25 TWP RGE 65W

Other Services

Permanent Datum	GL	Elevation	4723
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4747
D.F.
G.L. 4723

Date	MARCH 13, 2013
Run Number	ONE
Depth Driller	11126
Depth Logger	6824
Bottom Logged Interval	6823
Top Log Interval	SURFACE
Open Hole Size	8-3/4
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	214 DEG. F
Estimated Cement Top	980
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	2-3/4 PROBE 10102
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	BILL MANSFIELD

Borehole Record

Run Number	Bit	From	To

Tubing Record

Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36# J-5	18	674
Prot. String				
Production String	7	26# P-1	18	7475.4
Liner	4-1/2	11.6# P-1		11111

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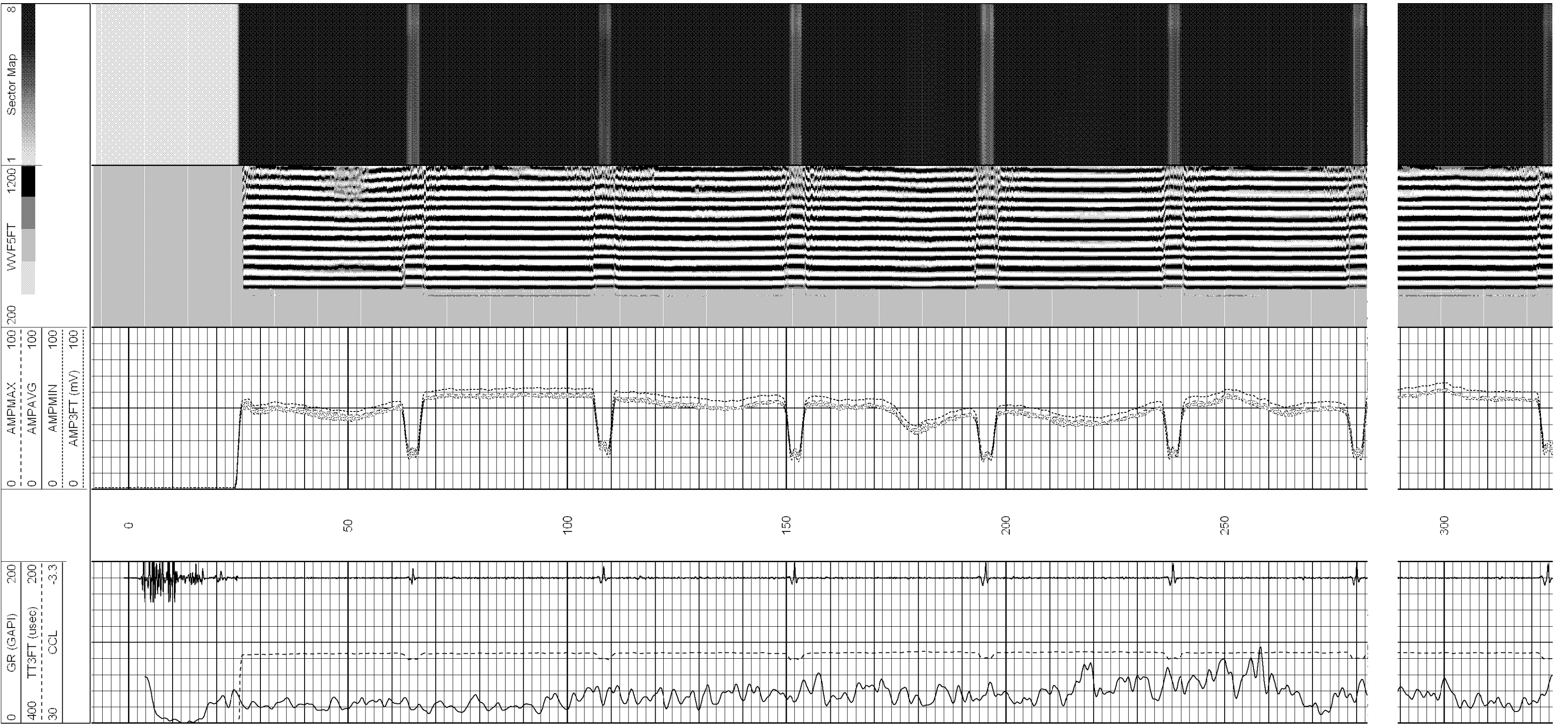
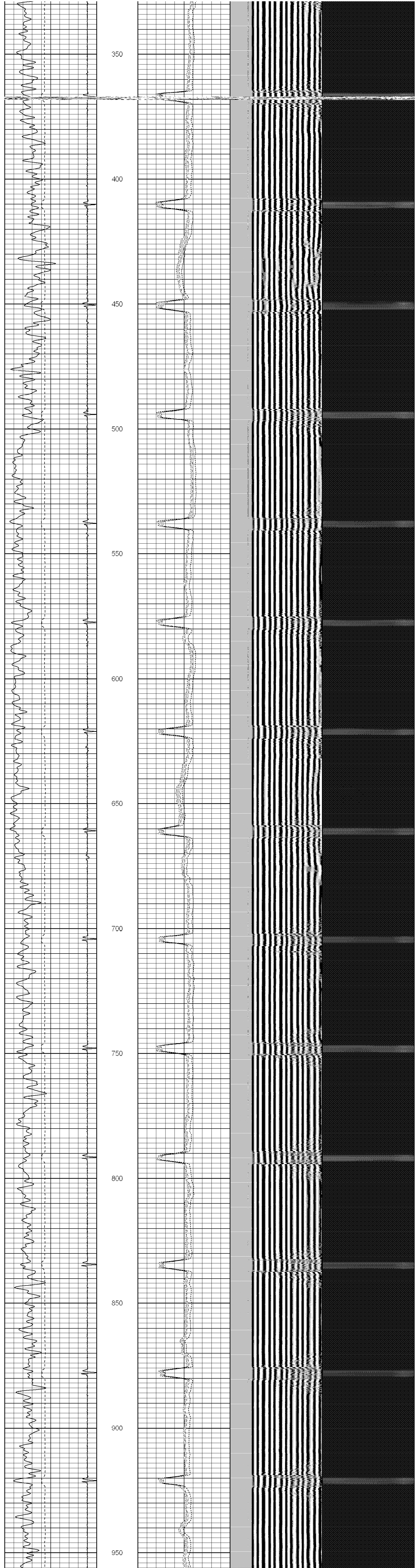
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

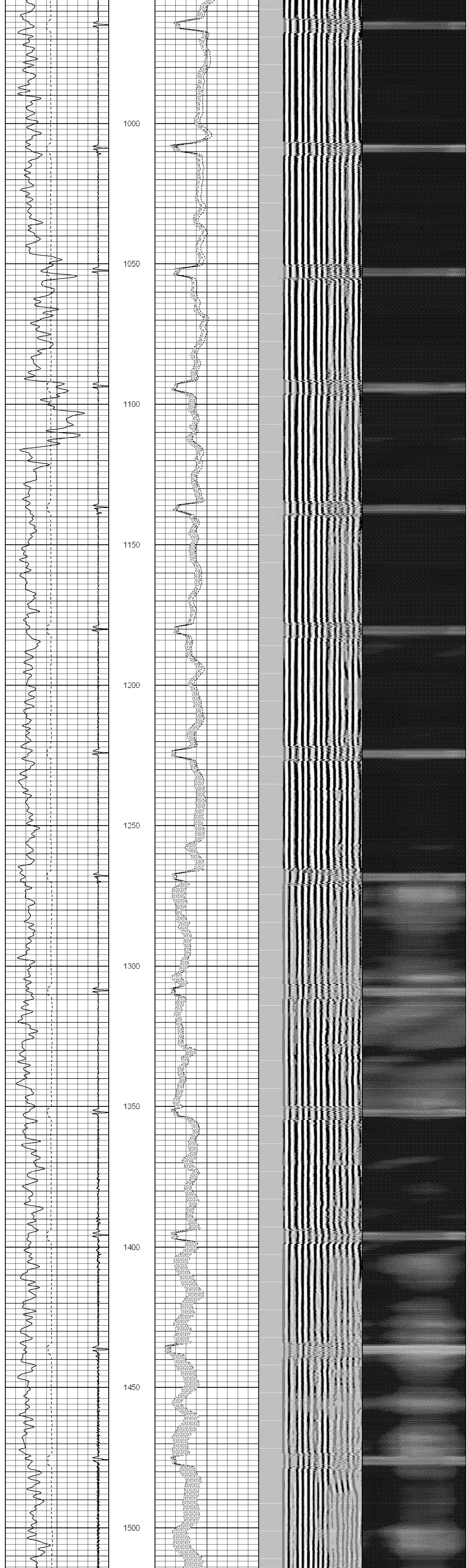
Comments

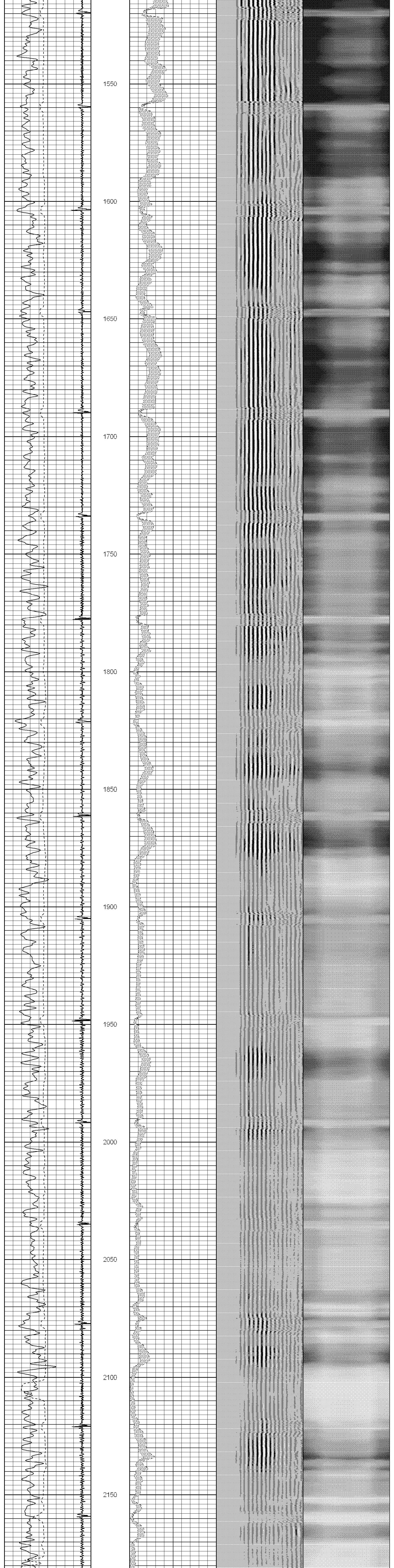
THANK YOU FOR CHOOSING NCPS!!!!!
LOG NOT CORRELATED
WCR 47 & WCR 52, E.7, NE ALONG DITCHBANK, N INTO

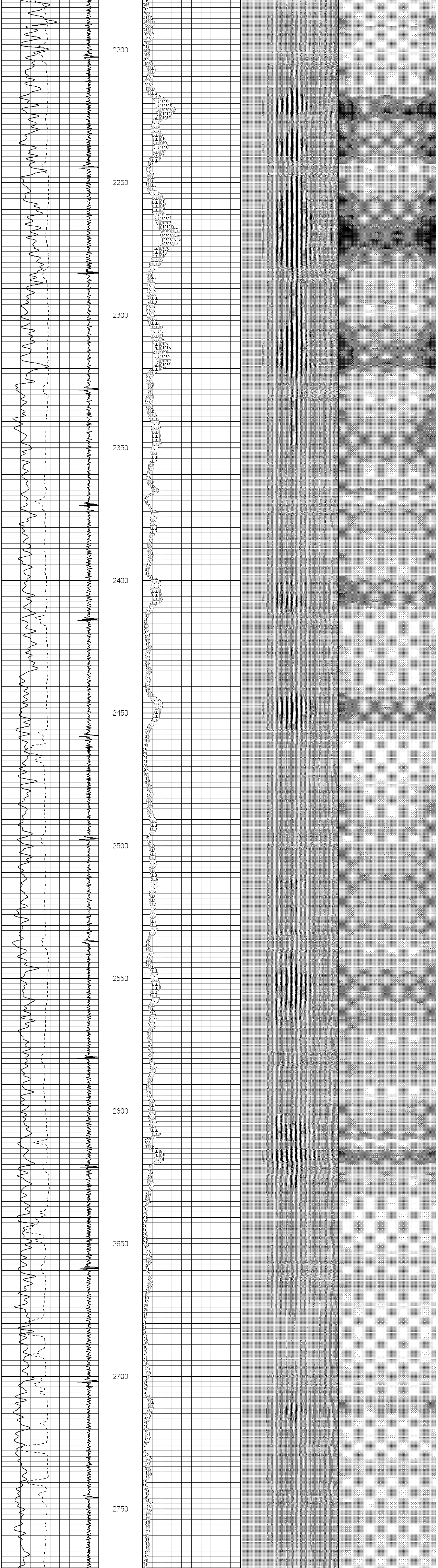
Database File:	cbl noble thistle down state pc f36-69hn.db
Dataset Pathname:	pass4.1
Presentation Format:	sector2
Dataset Creation:	Wed Mar 13 12:36:41 2013 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

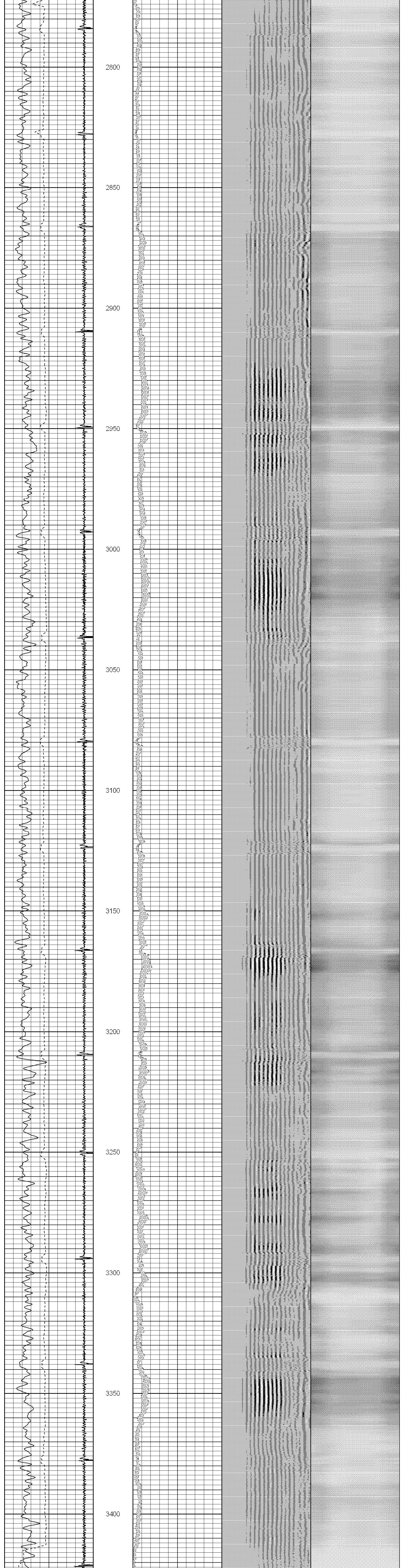


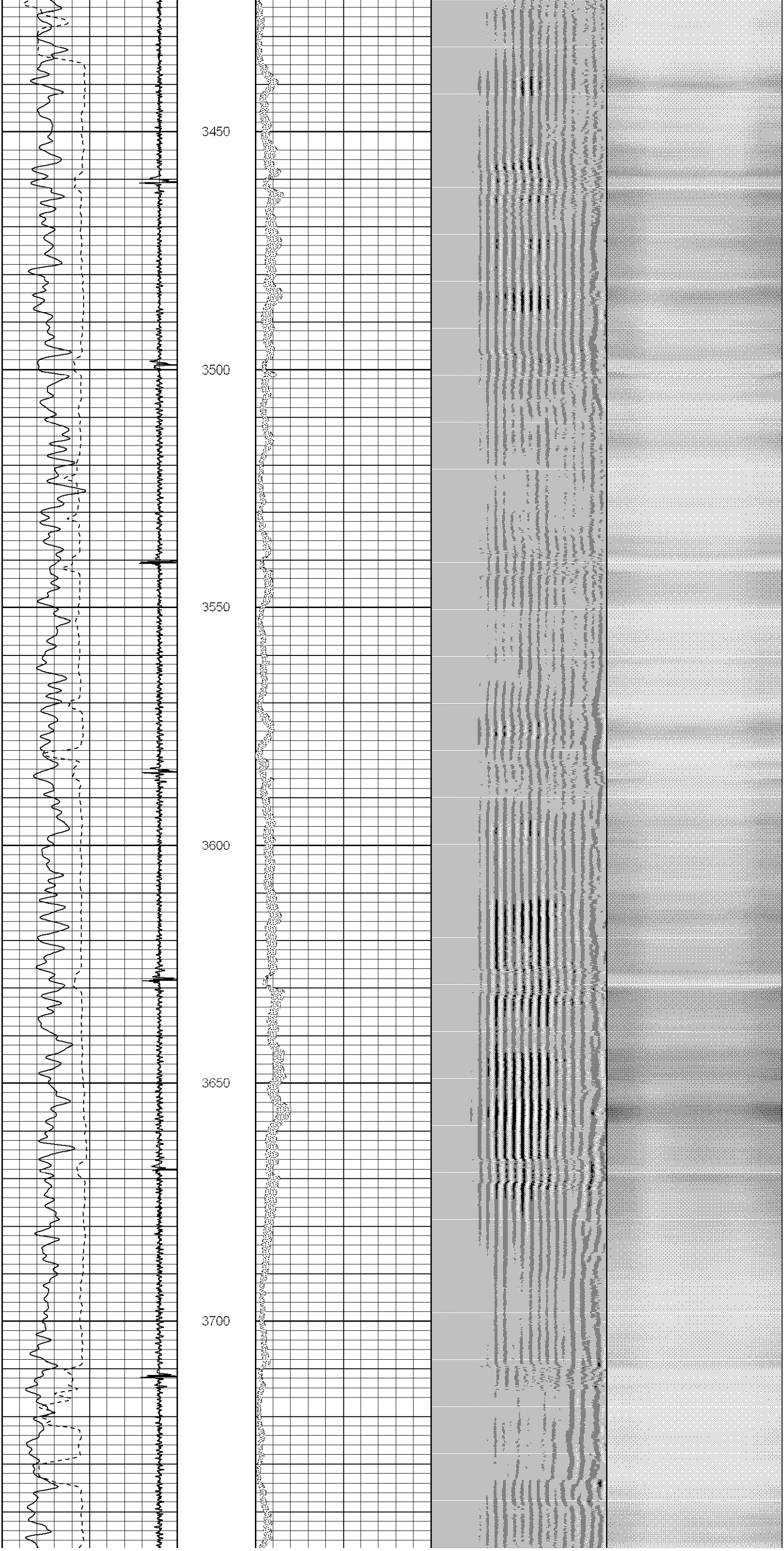


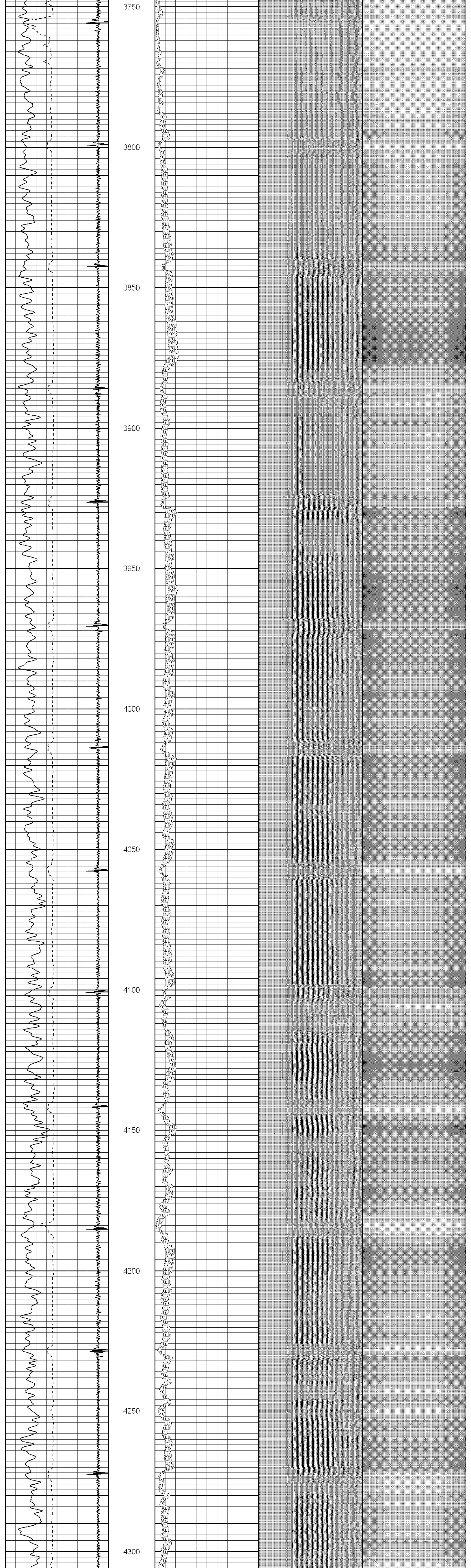


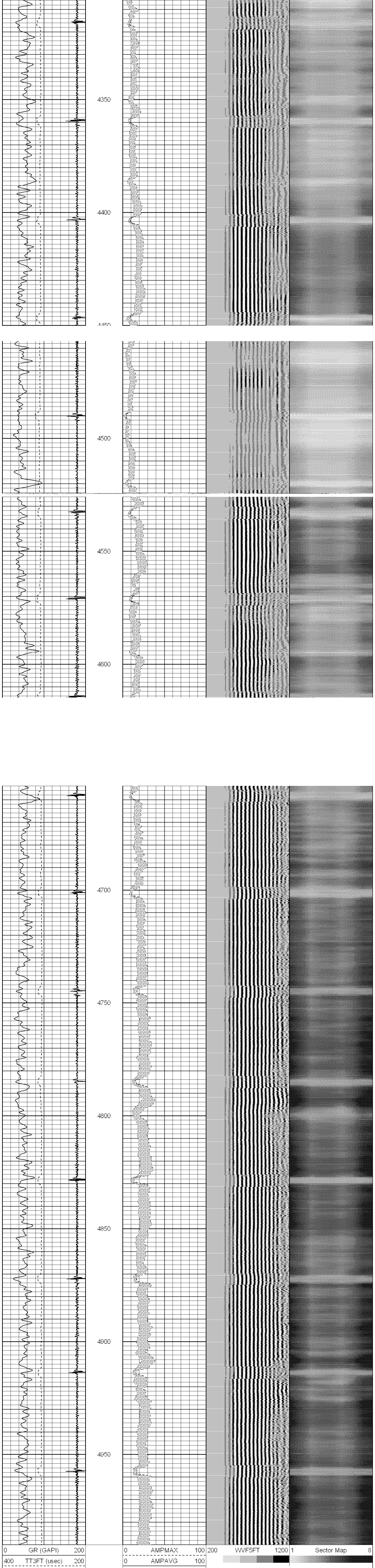








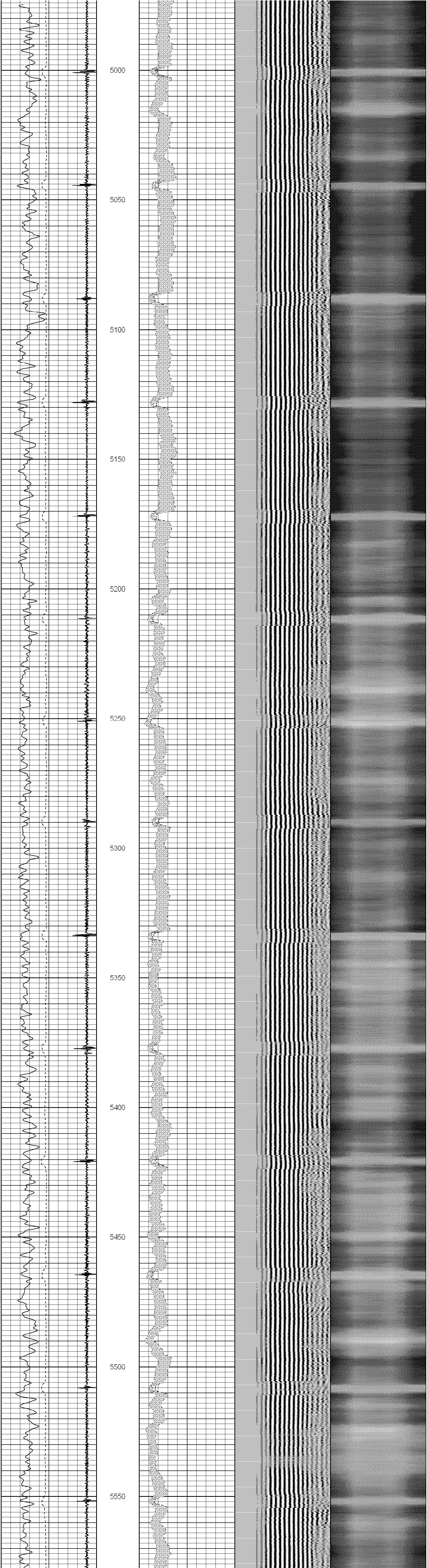


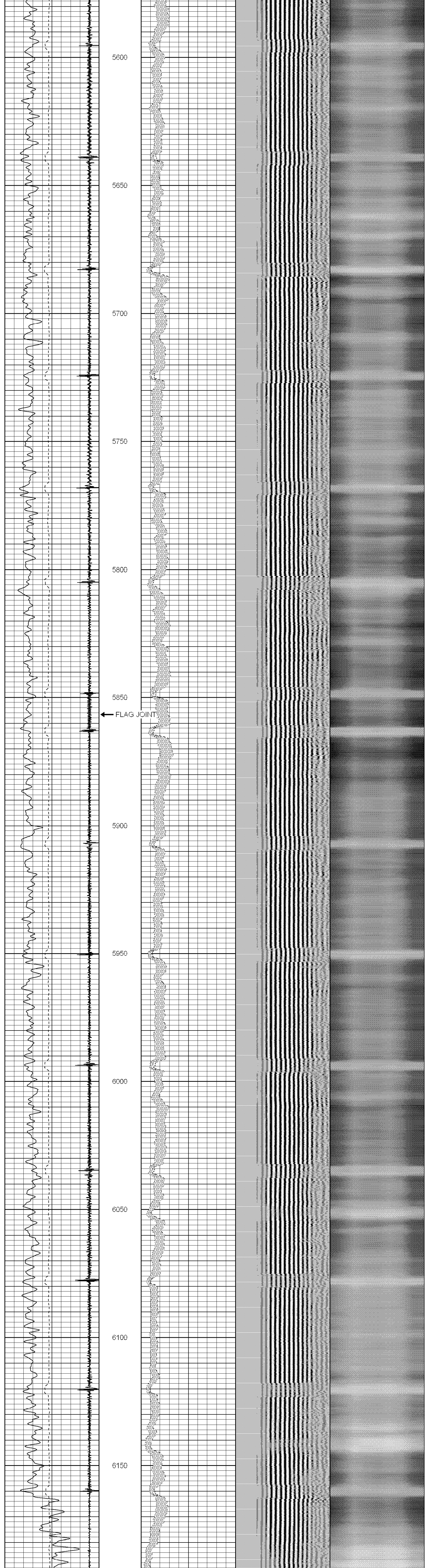


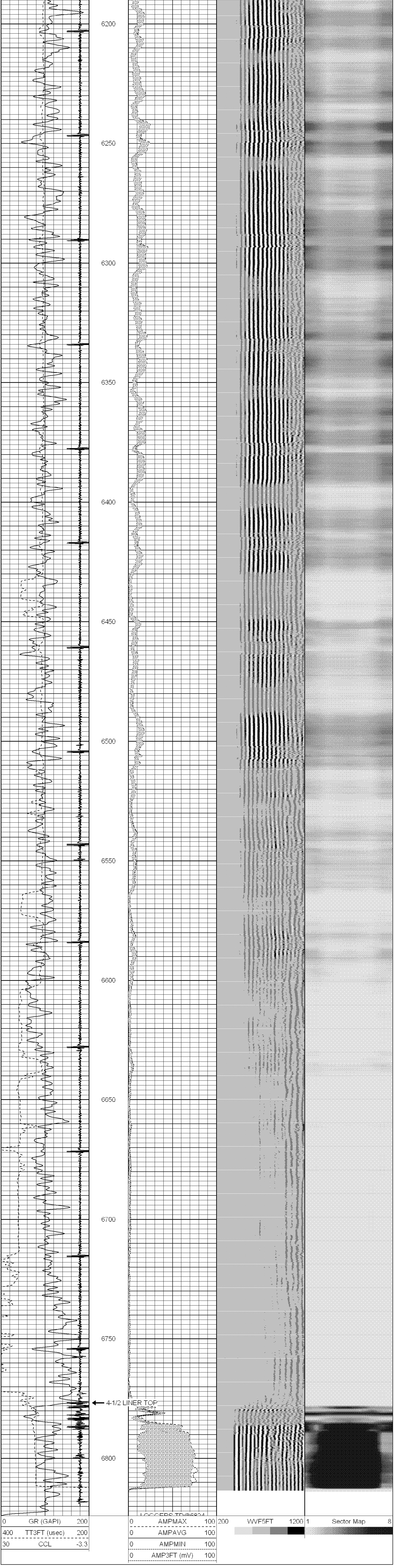
30 CCL -3.3	0 AMPMIN 100
	0 AMP3FT (mV) 100

Database File: cbl noble thistle down state pc f36-69hn.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Wed Mar 13 11:38:08 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		
30 CCL -3.3	0 AMPMIN 100		
	0 AMP3FT (mV) 100		







Calibration Report

Database File: cbl noble thistle down state pc f36-69hn.db
Dataset Pathname: pass3
Dataset Creation: Wed Mar 13 11:38:08 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
		0.4800			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: 820.842 ft

Master Calibration, performed Wed Mar 13 11:09:57 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.004	1.300	62.165	61.092	0.825
CAL	0.008	1.451				
5'	0.008	1.167	1.300	62.165	52.523	0.888
SUM						
S1	0.008	1.130	0.000	62.165	55.408	-0.427
S2	0.008	1.127	0.000	62.165	55.571	-0.438
S3	0.008	1.063	0.000	62.165	58.880	-0.452
S4	0.008	0.958	0.000	62.165	65.439	-0.508
S5	0.008	0.858	0.000	62.165	73.078	-0.569
S6	0.008	0.846	0.000	62.165	74.166	-0.568
S7	0.008	0.955	0.000	62.165	65.638	-0.506
S8	0.008	1.090	0.000	62.165	57.429	-0.444

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	0.008	1.451	1.000	0.000

Air Zero Calibration, performed Thu Mar 07 08:01:54 2013:

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