SUPERIOR WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company Noble Energy INC.
Well ABBEY D 01-28
Field Wattenberg
County Weld
State Colorado

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Field Wattenberg
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Location: API # : 051233008100
290' FNL & 2475' FEL
NW NE
LAT: 40.26093 DEG & LONG: -104.49885 DEG
SEC 1 TWP 3N RGE 64W

Other Services

Permanent Datum GL Elevation 4745
Log Measured From KB 16'
Drilling Measured From KB

Elevation
K.B. 4761
D.F. 4761
G.L. 4745

Date	October 15, 2010		
Run Number	ONE		
Depth Driller	7000		
Depth Logger	6920		
Bottom Logged Interval	5919		
Top Log Interval	950		
Casing Size	4 1/2"		
Type Fluid	Water		
Max. Recorded Temp.	238 deg F		
Estimated Cement Top	1462		
Time Well Ready	Mast Truck		
Time Logger On Bottom	AM		
Unit Number	3344		
Tool Size / ID Number	2.75 Tool 1 BLK		
Location	Platteville, CO		
Recorded By	K. Monaghan		
Witnessed By	E. Zwaagstra		

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	720
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	6978
Liner				

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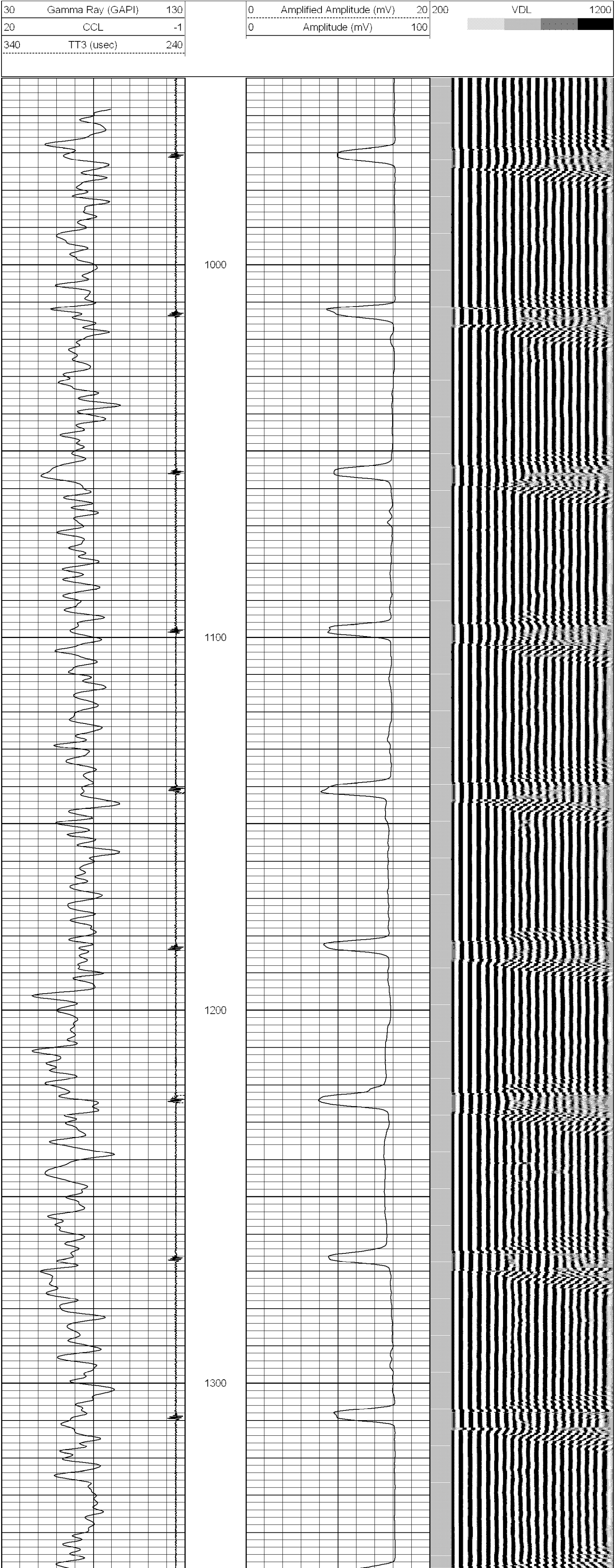
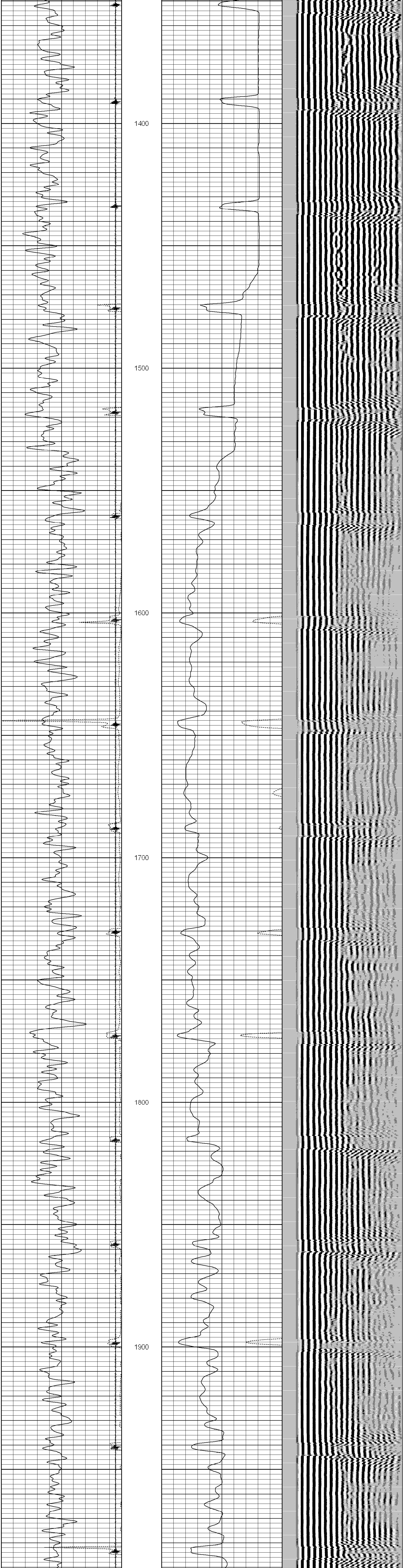
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

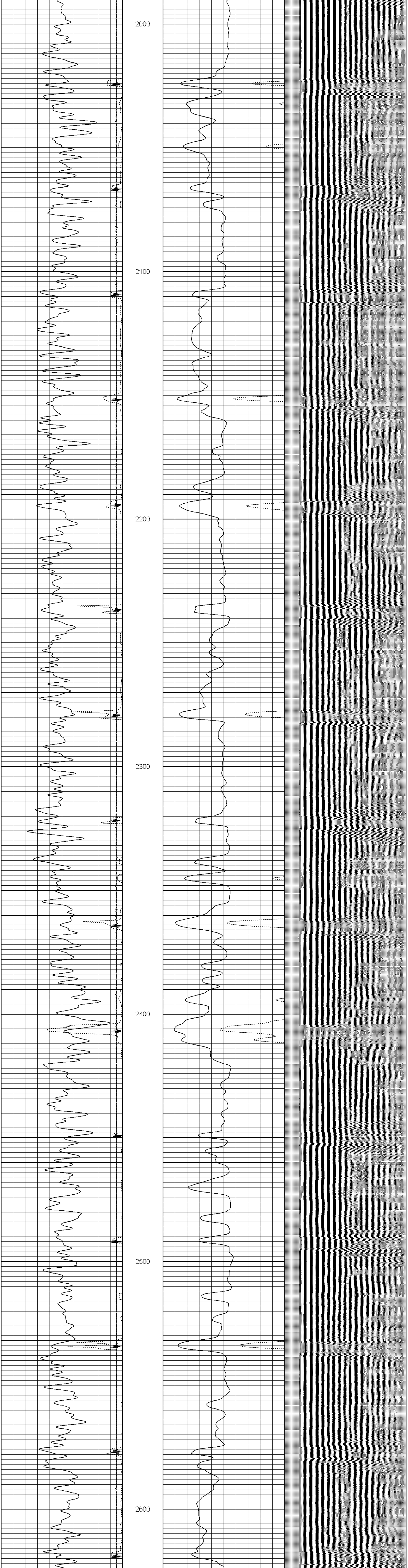
Comments

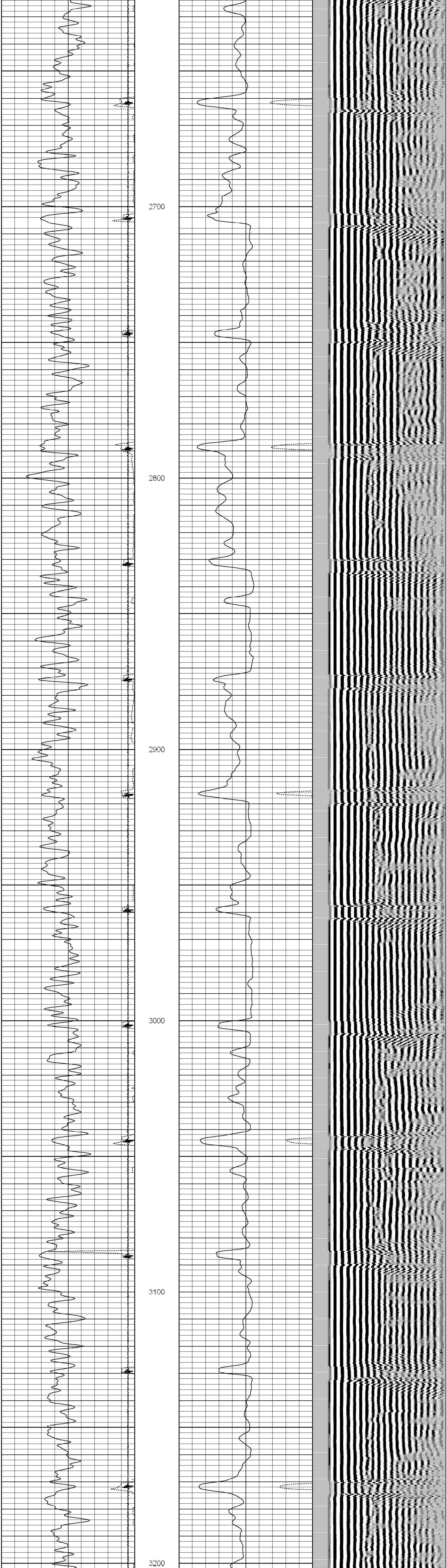
Thank You For Chssoing Superior Well Services!!
API# 05-123-30081-00
Correlated to H.E.S's
Dual Spaced Neutron / Spectral Density / Array Compensated / True Resistivity / Gamma Ray
Dated: October 7, 2010
Directions: 40&57, SOUTH 1.5MI, TO GUTTERSEN GATE (1989), SE 1.45MI, NE 9/10, E 8/10, N 2/10, W 2/10, N 2/10,
W 2/10, INTO

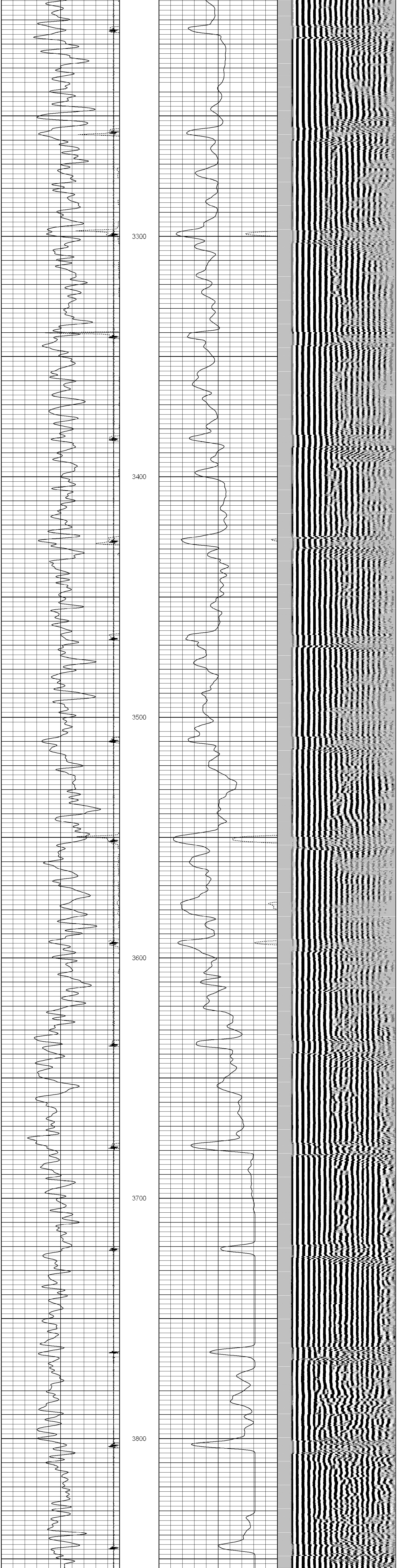
Database File:	cblabbey d01-28.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Fri Oct 15 11:18:45 2010 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240

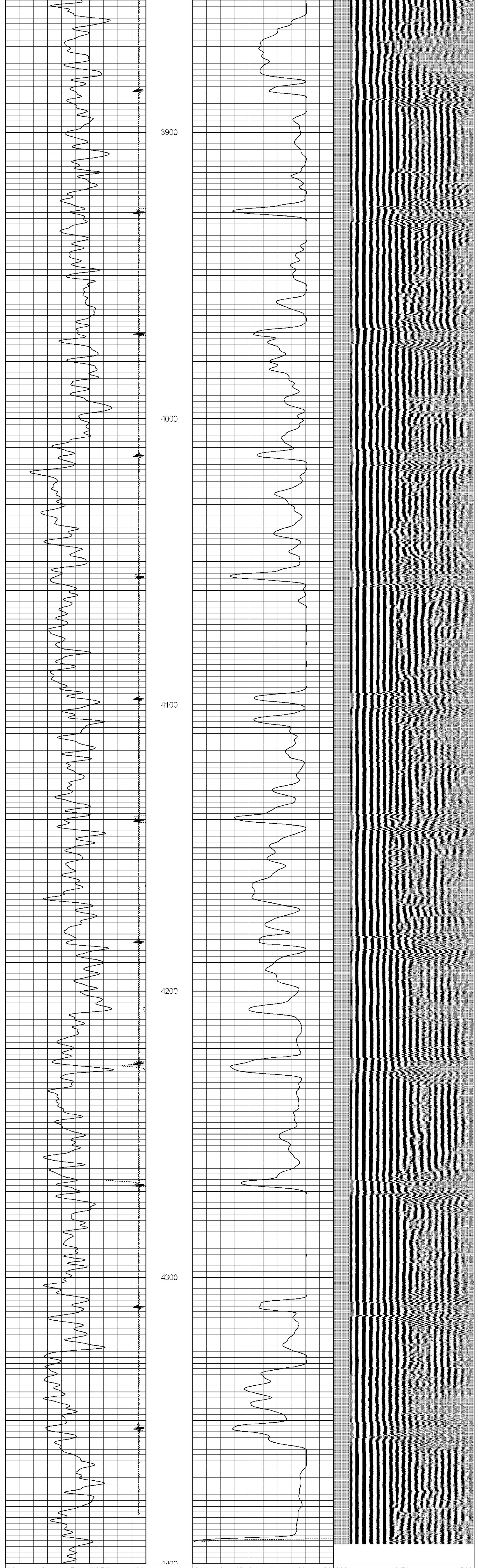












30	Gamma Ray (GAPI)	130
20	CCL	-1
340	TT3 (usec)	240

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100

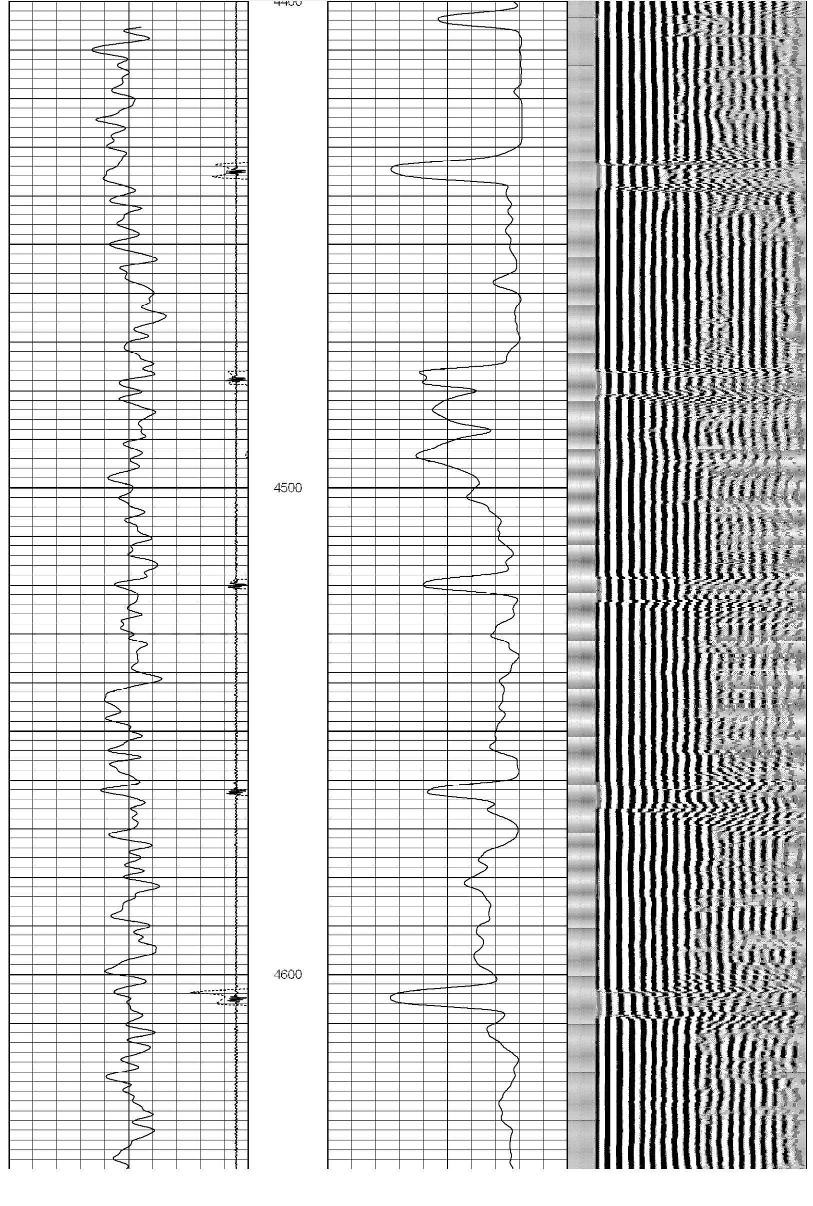
200	VDL	1200

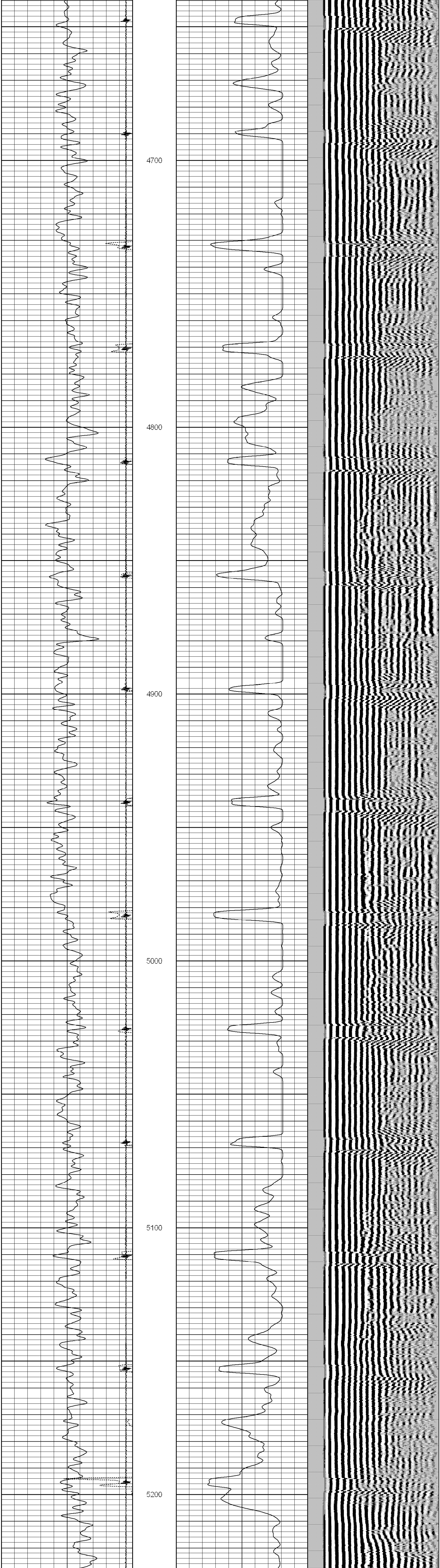
Database File: cblabbey d01-28.db
Dataset Pathname: pass2
Presentation Format: nuexbond
Dataset Creation: Fri Oct 15 10:54:27 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

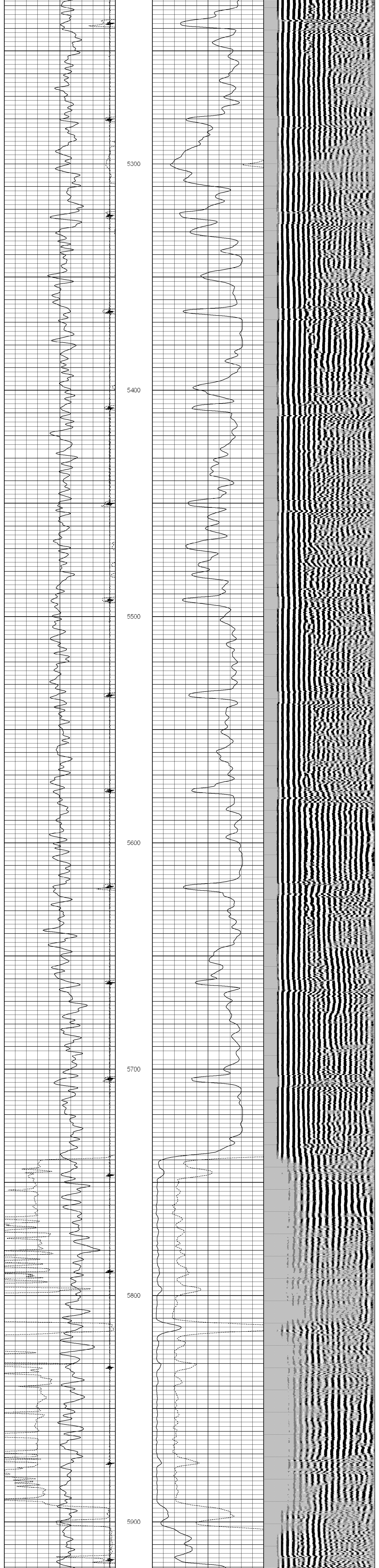
0	Gamma Ray (GAPI)	150
20	CCL	-1
340	TT3 (usec)	240

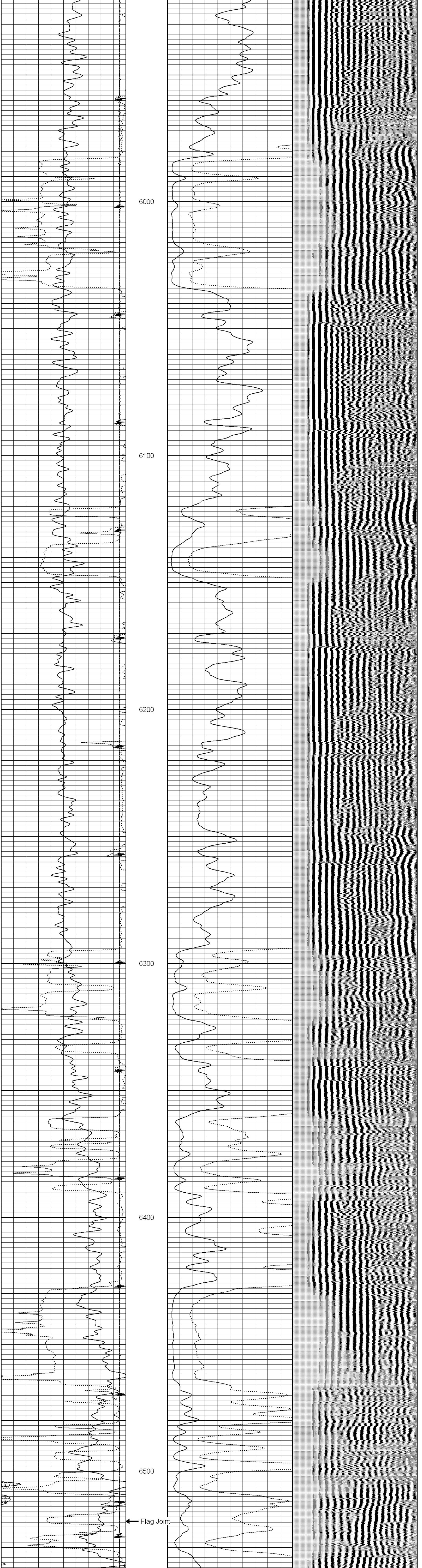
0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100

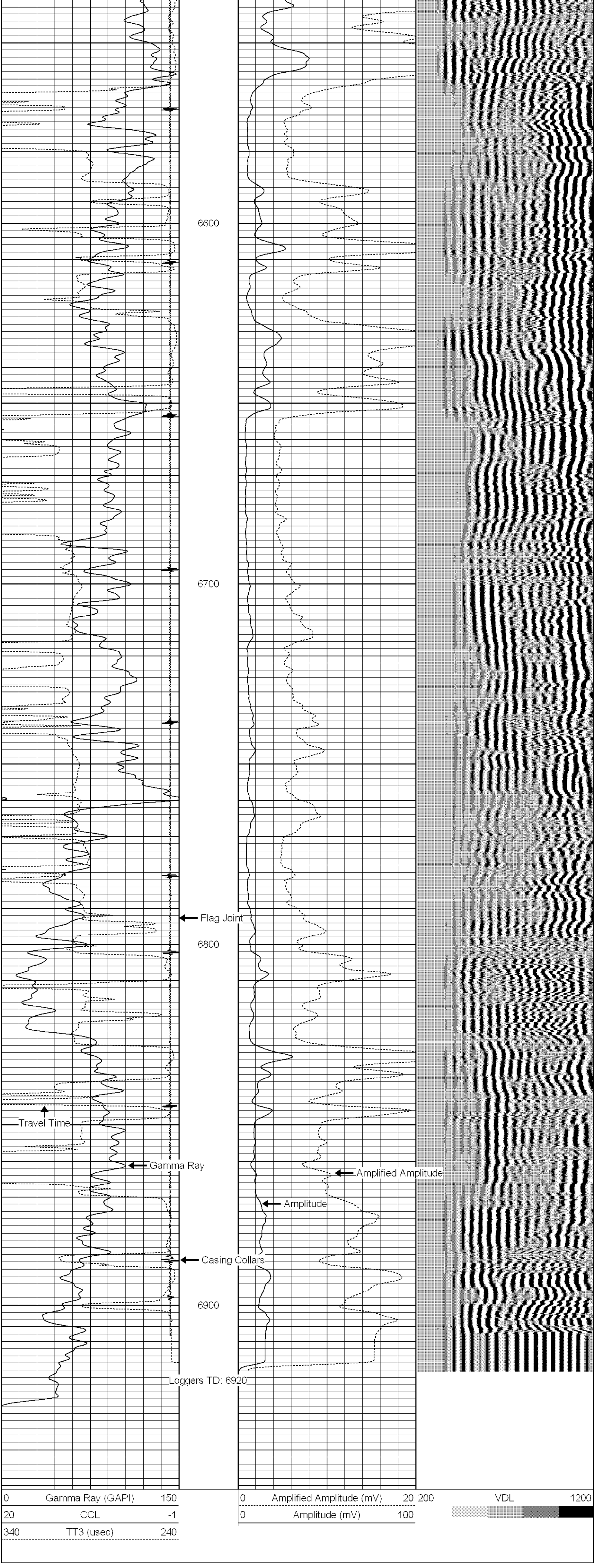
200	VDL	1200











Calibration Report

Database File: cblabbey d01-28.db
Dataset Pathname: pass3
Dataset Creation: Fri Oct 15 11:18:45 2010 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	234GR-328	
Tool Model:	TekcoGR	
Performed:	Thu Aug 02 12:04:45 2007	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234B35C-8013	
Tool Model:	TEKCO	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	432.375	ft

Master Calibration, performed Fri Oct 15 10:37:54 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	2.500	1.100	81.196	32.018	1.152
CAL	0.005	2.500				
5'	-0.001	2.447	1.100	81.196	32.723	1.121
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Fri Oct 15 10:33:27 2010:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.005	2.500	1.000	0.000

Air Zero Calibration, performed Fri Oct 15 10:32:16 2010:

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