CEMENT BOND LOG
GAMMA RAY C C L
V D L

SUPERIOR WELL SERVICES

Company	Petro Canada Resources (USA) Inc.
Well	DF RANCH 21-42
Field	Grover
County	Weld
State	Colorado

Company Petro Canada Resources (USA) Inc.
Well DF RANCH 21-42
Field Grover
County Weld State Colorado
Location: API #: 051233002500
1898' FSL & 1907' FEL
NW SE
SEC 21 TWP 11N RGE 31W

Other Services

Permanent Datum	GL	Elevation 5242	Elevation K.B. 5254 D.F. 5253 G.L. 5242
Log Measured From	KB		
Drilling Measured From	KB		

Date	January 29, 2010	
Run Number	One	
Depth Driller	9083	
Depth Logger	9033	
Bottom Logged Interval	9032	
Top Log Interval	Surface	
Casing Size	5 1/2"	
Type Fluid	Water	
Density / Viscosity	Not Recorded	
Max. Recorded Temp.	260 deg F	
Estimated Cement Top	223	
Time Well Ready	Mast Truck	
Time Logger on Bottom	AM	
Equipment Number	T5 (3344)	1 11/16 Tool 1 RED
Location	Platteville, CO	
Recorded By	K. Monaghan	
Witnessed By	E. Zwaagstra	R. Williams

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5 1/2"		Surface	TD
Liner				

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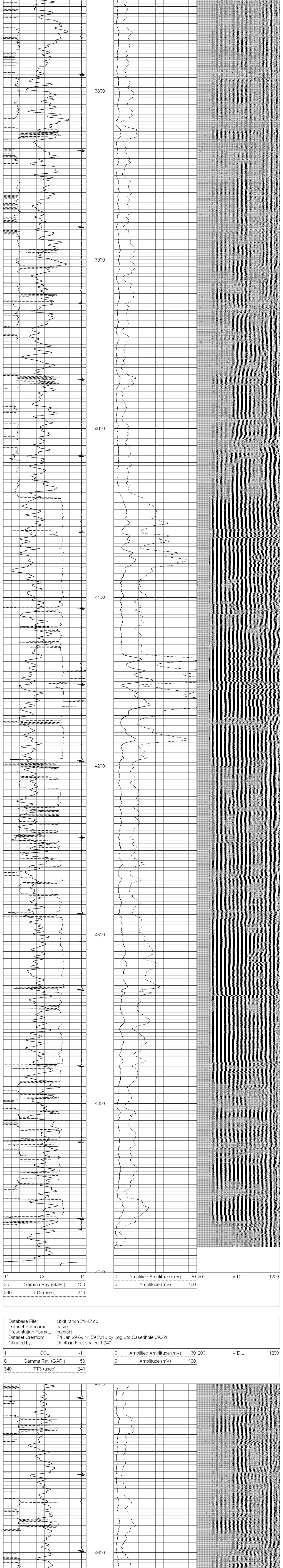
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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# 05-123-30025-00
Correlated to Phoenix Survey Inc's
Compensated Density / Compensated Neutron / Gamma Ray Microlog
Dated: December 22, 2009
Directions: 122 & 89, N 2mi, E across cattle guard, NE 7/10, S into

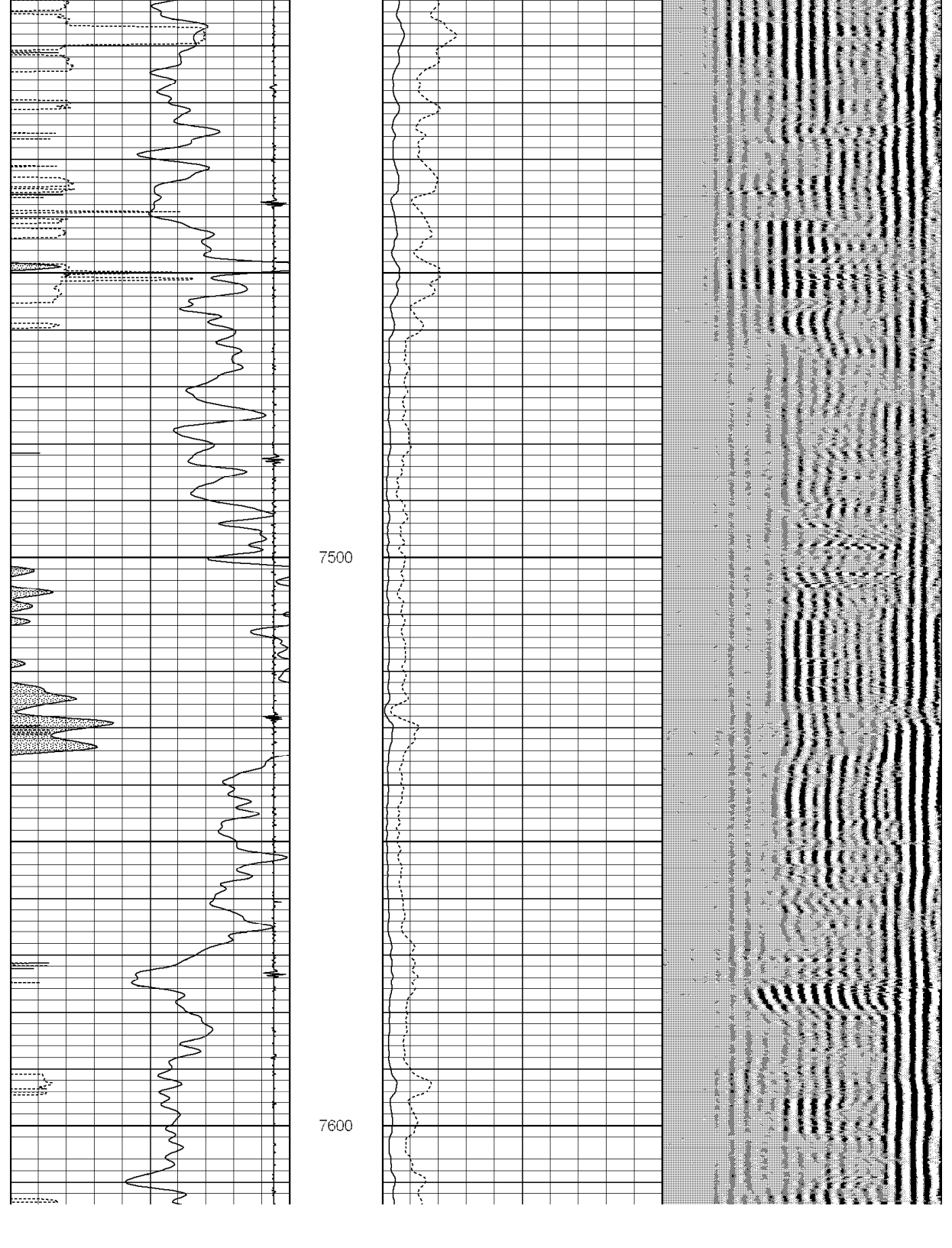
Database File:	cbldf ranch 21-42.db
Dataset Pathname:	pass8
Presentation Format:	nuexcbl
Dataset Creation:	Fri Jan 29 09:38:21 2010 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240

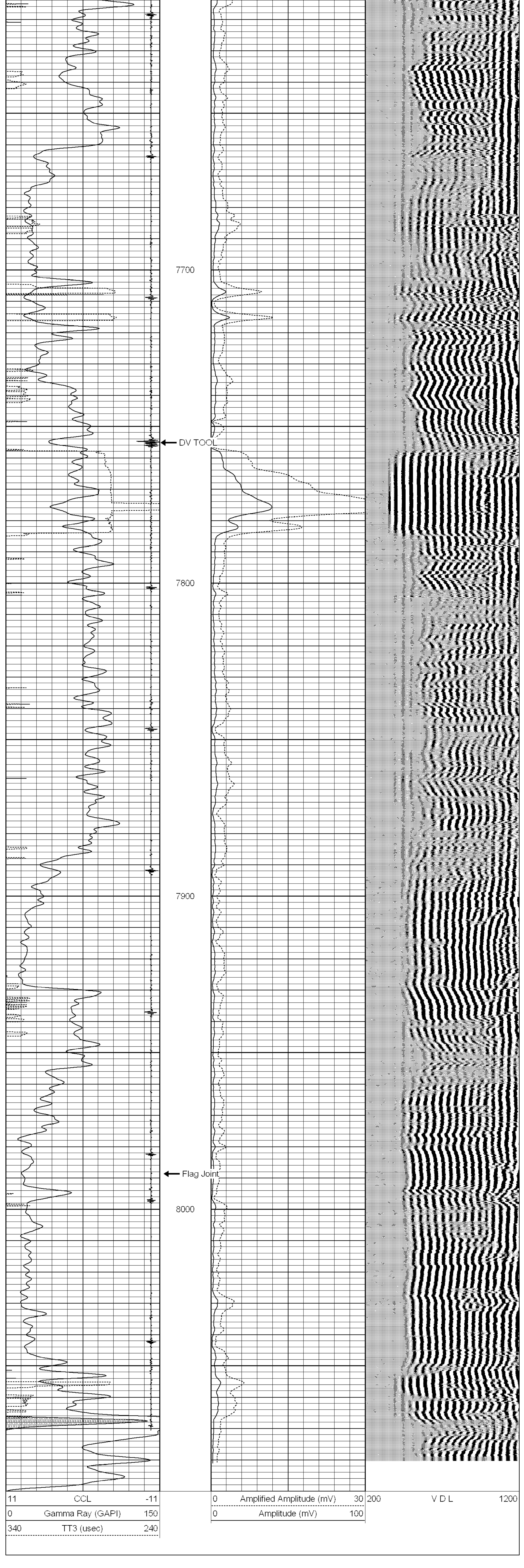
11	CCL	-11	0	Amplified Amplitude (mV)	30	200	V D L	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100			
340	TT3 (usec)	240						



Database File: cbldf ranch 21-42.db
Dataset Pathname: pass7
Presentation Format: nuexcbl
Dataset Creation: Fri Jan 29 09:14:59 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

Database File: cbldf ranch 21-42.db
Dataset Pathname: pass6
Presentation Format: nuexcbl
Dataset Creation: Fri Jan 29 09:04:34 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

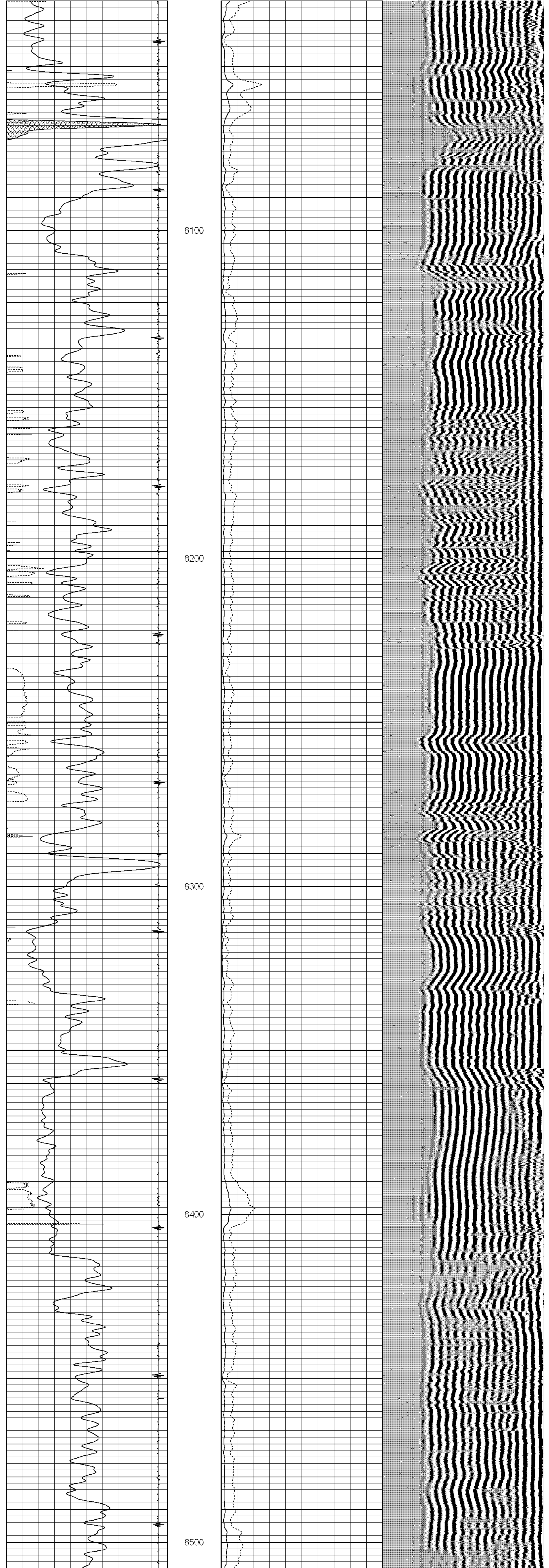




11	CCL	-11	0	Amplified Amplitude (mV)	30	200	V D L	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

Database File: cbldf ranch 21-42.db
Dataset Pathname: pass3
Presentation Format: nuexcbl
Dataset Creation: Fri Jan 29 08:54:04 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

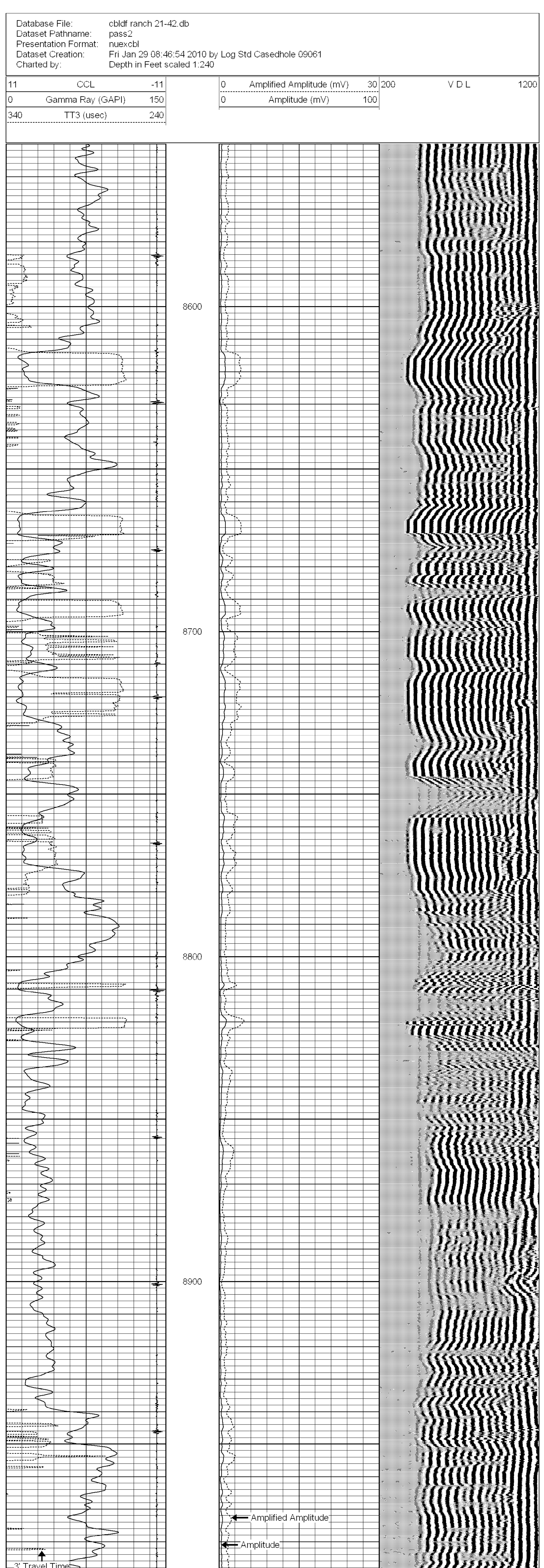
11	CCL	-11	0	Amplified Amplitude (mV)	30	200	V D L	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
340	TT3 (usec)	240						



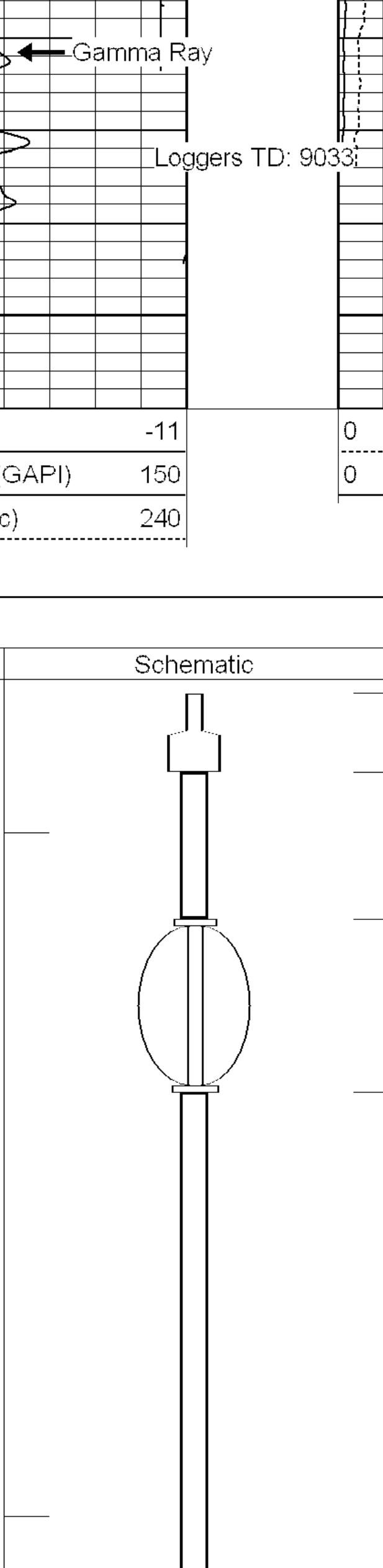
11	CCL	-11	0	Amplified Amplitude (mV)	30	200	V D L	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

Database File: cbldf ranch 21-42.db
Dataset Pathname: pass2
Presentation Format: nuexcbl
Dataset Creation: Fri Jan 29 08:46:54 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

11	CCL	-11	0	Amplified Amplitude (mV)	30	200	V D L	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
340	TT3 (usec)	240						



11	CCL	-11	0	Amplified Amplitude (mV)	30	200	V D L	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-STNDRD (1) Standard Cable Head	1.00	1.69	5.00
CCL	21.05		CCL-T1-11/16 (1-11/16T) Titan 1-11/16 collar locator	1.83	1.69	20.00
			CENT-App2nd (1-11/16T) Another 1-11/16 Applied centralizer	2.17	1.69	10.00
WVF3 WVF5	12.48 11.50		CBL-TEKCO-1x2 (TEKCO-01) TEKCO Cement Bond 1x2	9.68	1.69	40.00
			CENT-App2nd (1-11/16T) Another 1-11/16 Applied centralizer	2.17	1.69	10.00
GR	2.63		GR-temp/tit (tit/temp) Titan 1 11/16 Gamma Ray with temp probe	5.96	1.69	20.00

Dataset: cbldf ranch 21-42.db: field/well/run1/pass1
Total Length: 22.80 ft
Total Weight: 105.00 lb
O.D. 1.69 in

Calibration Report

Database File: cbldf ranch 21-42.db
Dataset Pathname: pass1
Dataset Creation: Fri Jan 29 08:27:03 2010 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Wed Dec 16 07:15:29 2009	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Fri Jan 29 08:26:54 2010		
Depth:	74.5	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.9	0.9	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.0108398	-0.0103516	V
Reading in Free Pipe:	2.5	2.5	V
Gain:	28.2858	28.2913	
Offset:	1.20661	1.19286	