BRAN-DEX
WIRELINE SERVICES

GAMMA RAY CCL
CEMENT BOND VDL
SECTOR MAP

Company ENCANA OIL & GAS USA INC.
Well DUCKWORTH 31-16
Field WATTENBERG
County WELD
State CO

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Location: API # : 05-123-24899-00
1665 FNL & 1012NFEL
660 FNL 1973 FEL
NW SE
SEC 16 TWP 2N RGE 68W

Other Services

Permanent Datum	GL	Elevation	4888
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4903
D.F. 4901
G.L. 4888

Date	APRIL-18-2007		
Run Number	ONE		
Depth Driller	8200		
Depth Logger	8168		
Bottom Logged Interval	8168		
Top Log Interval	6300		
Open Hole Size	------------		
Type Fluid	WATER		
Density / Viscosity	-----------		
Max. Recorded Temp.	NA		
Estimated Cement Top	6446		
Time Well Ready	--------------------		
Time Logger on Bottom	-----------------		
Equipment Number	467		
Location	STERLING		
Recorded By	MEISNER		
Witnessed By	C.CLARK		

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	4.5			
Liner				

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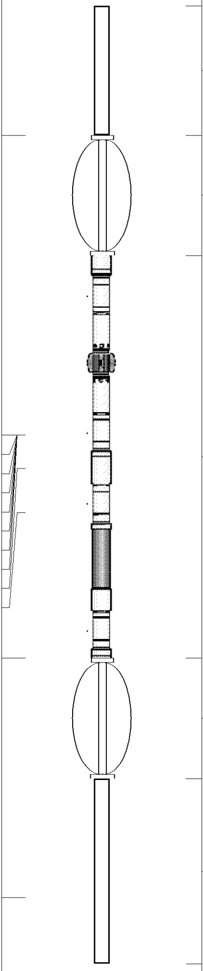
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

NO OPEN HOLE LOG AVAILABLE
MIDDLE WELL ON PAD

Sensor	Offset (ft)
CCL	18.71
WVFS1	11.94
WVFS2	11.94
WVFS3	11.94
WVFS4	11.94
WVFS5	11.94
WVFS6	11.94
WVFS7	11.94
WVFS8	11.94
WVF3FT	11.19
WVF5FT	10.19
WVFCAL	6.90
GR	1.50

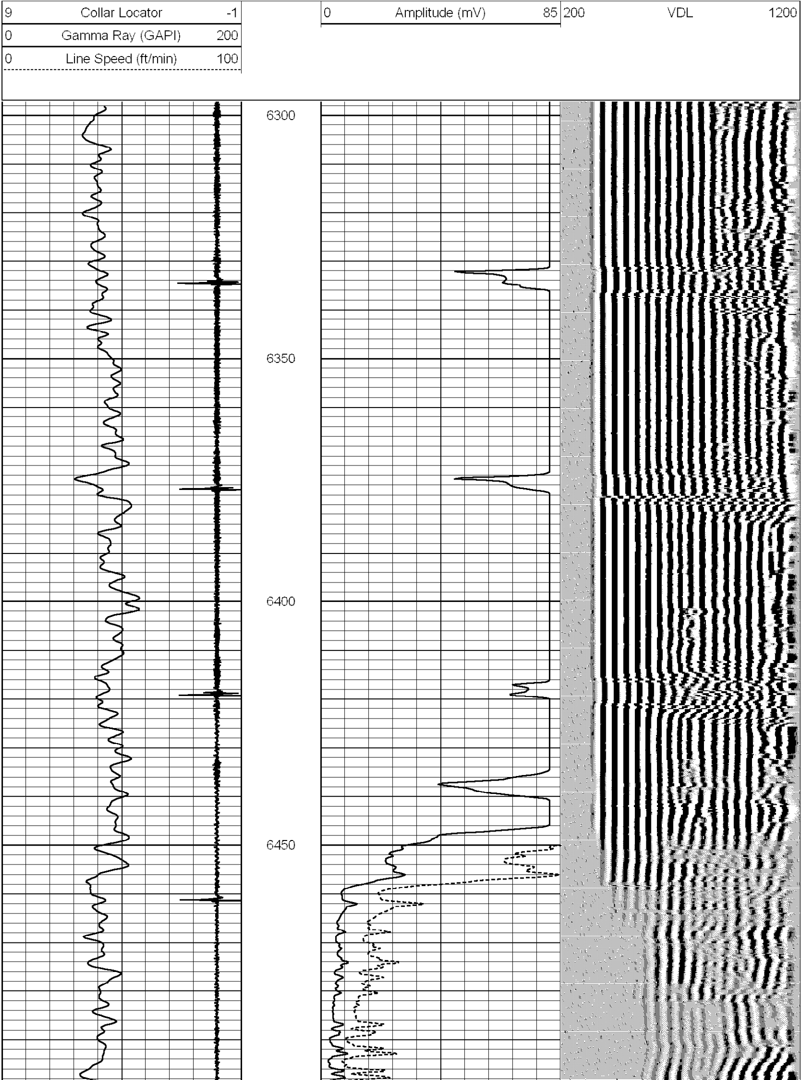
Schematic

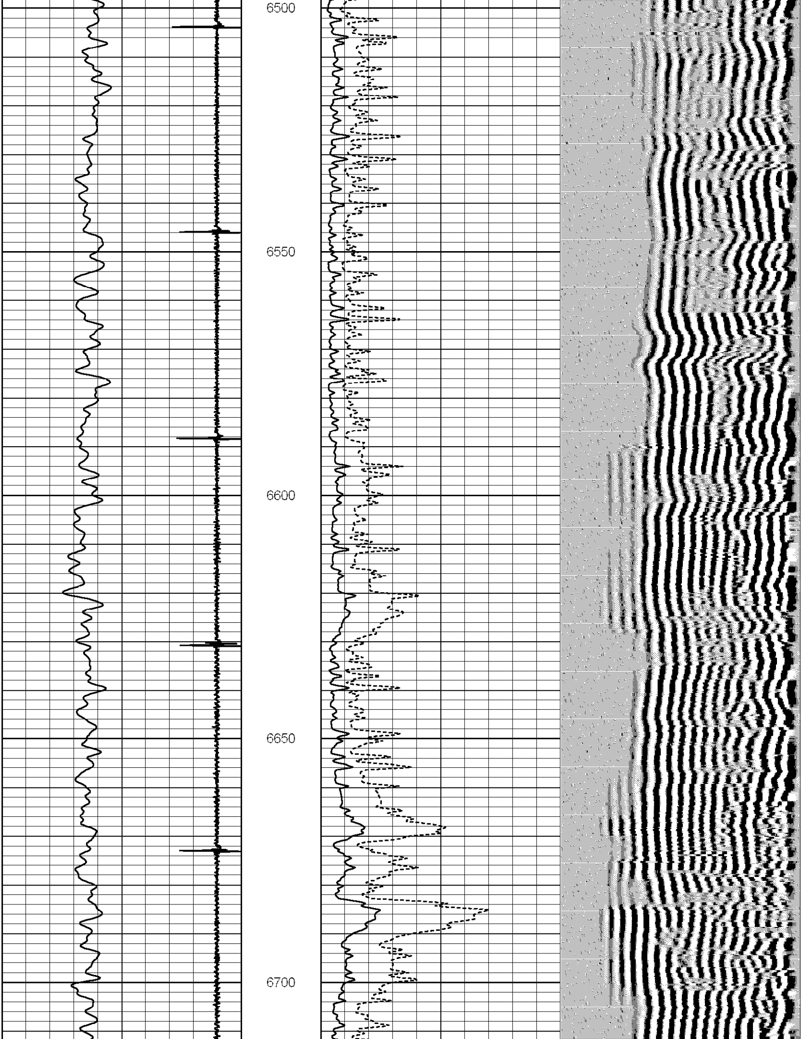


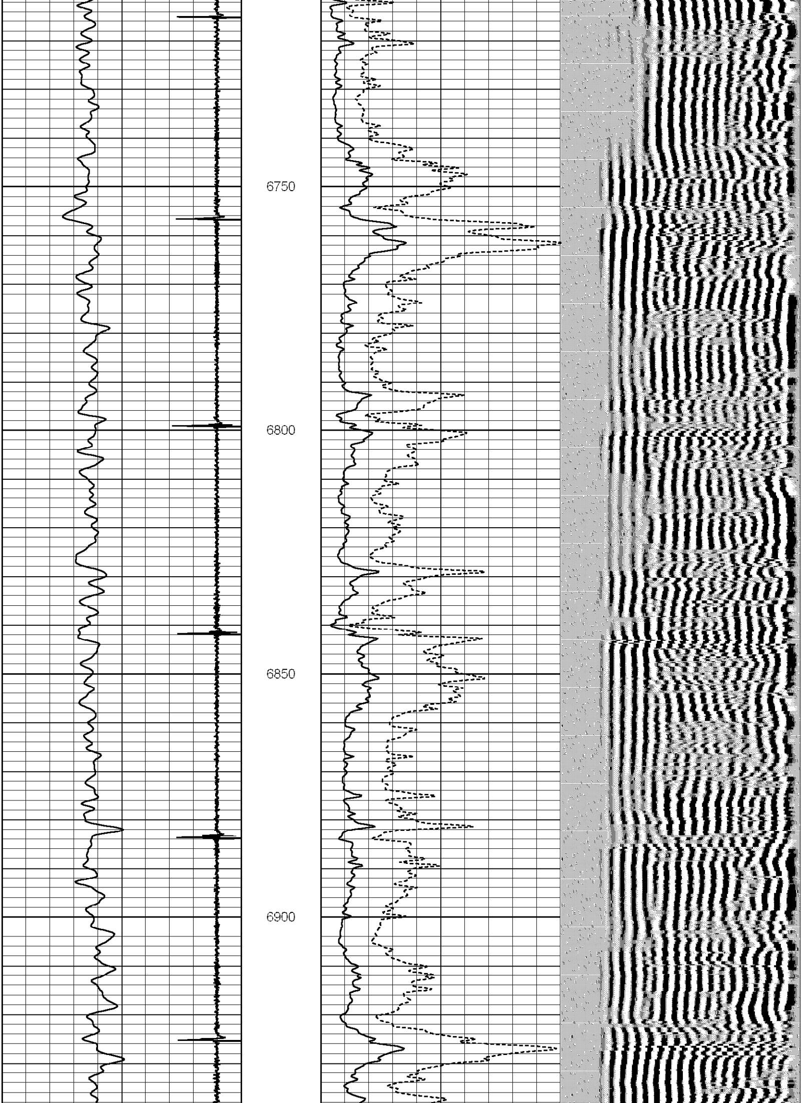
Description	Len (ft)	OD (in)	Wt (lb)
CCL-S_101 (101)	2.92	1.69	11.00
CENT-TEKCO (101)	2.73	2.75	10.00
SCBL-TEKCO-CT (101) TEKCO 2.75 RIB - CT	9.08	2.75	108.00
CENT-TEKCO (102)	2.73	2.75	10.00
GR-S_101 (101)	4.17	1.69	25.00

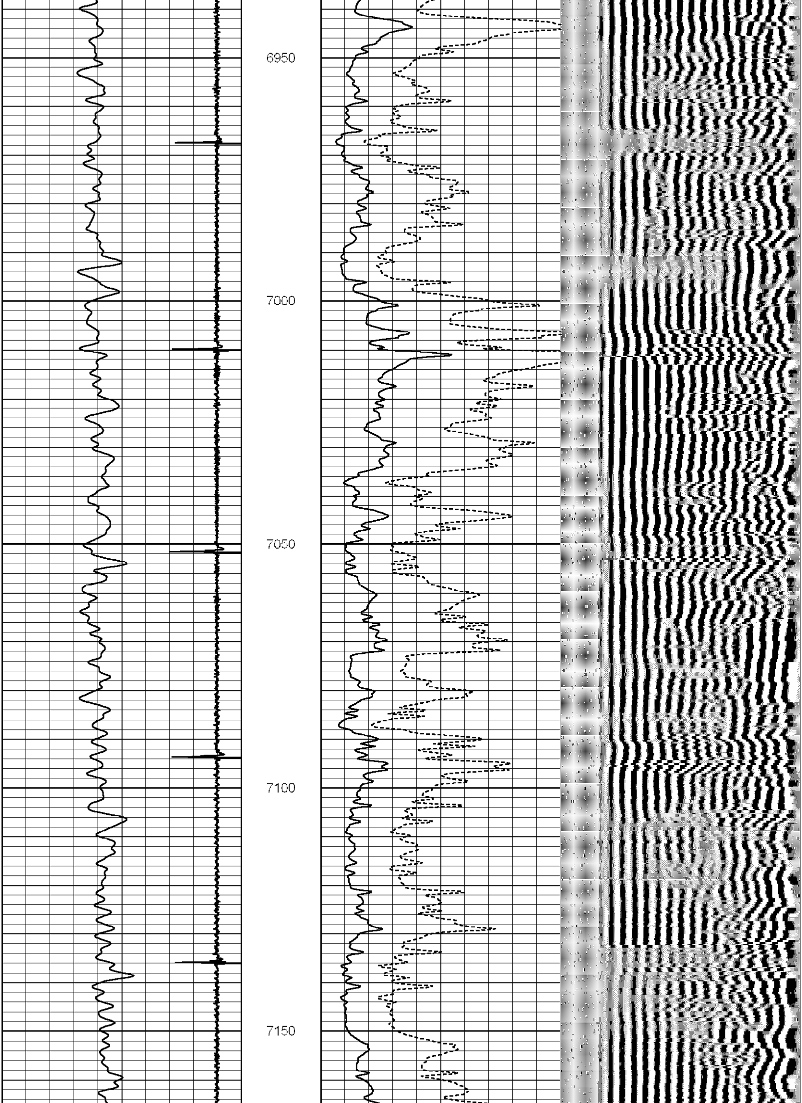
Dataset:	/field/well/run/_plots_/_jobs_/job1
Total Length:	21.63 ft
Total Weight:	164.00 lb
O.D.	2.75 in

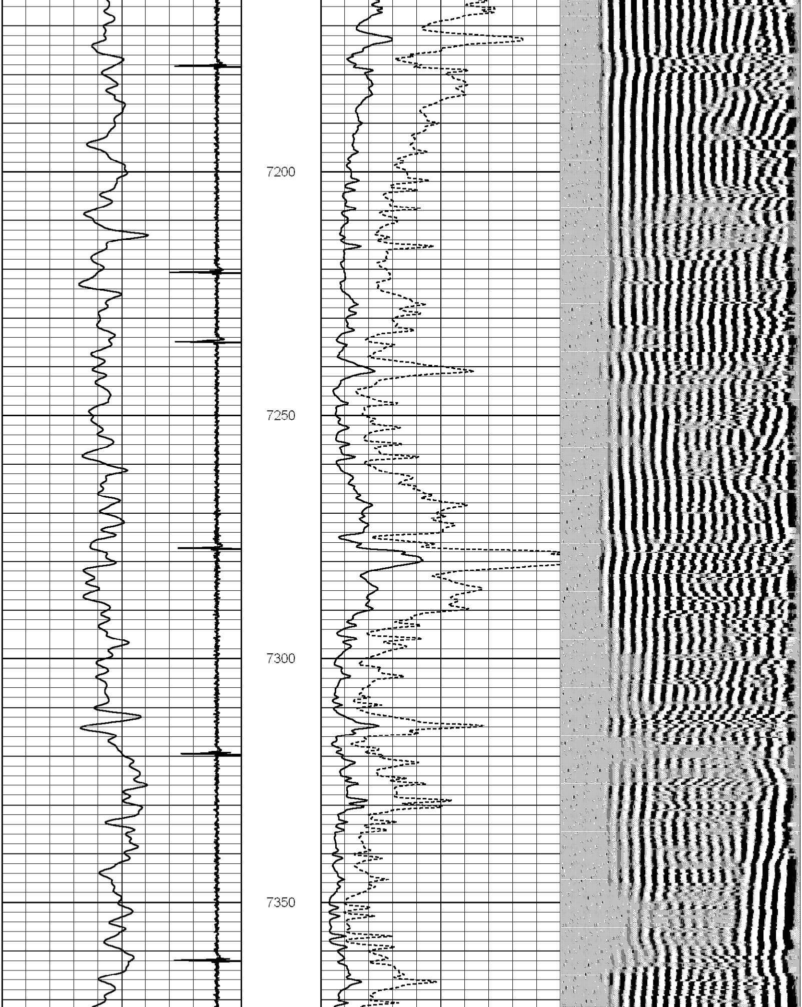
Database File: duckworth31-16 mid.db
Dataset Pathname: pass3
Presentation Format: scbl_dr
Dataset Creation: Wed Apr 18 10:13:33 2007 by Log Warrior 7.0 STD Cas
Charted by: Depth in Feet scaled 1:240

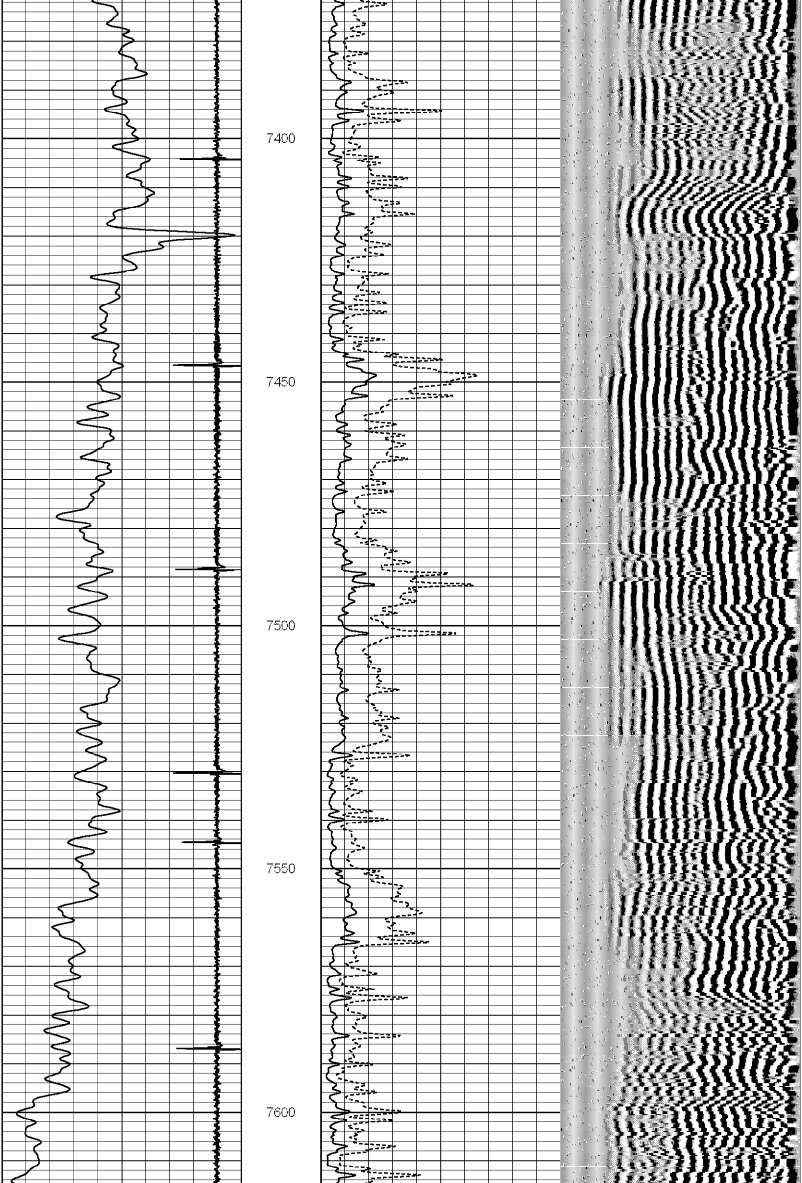


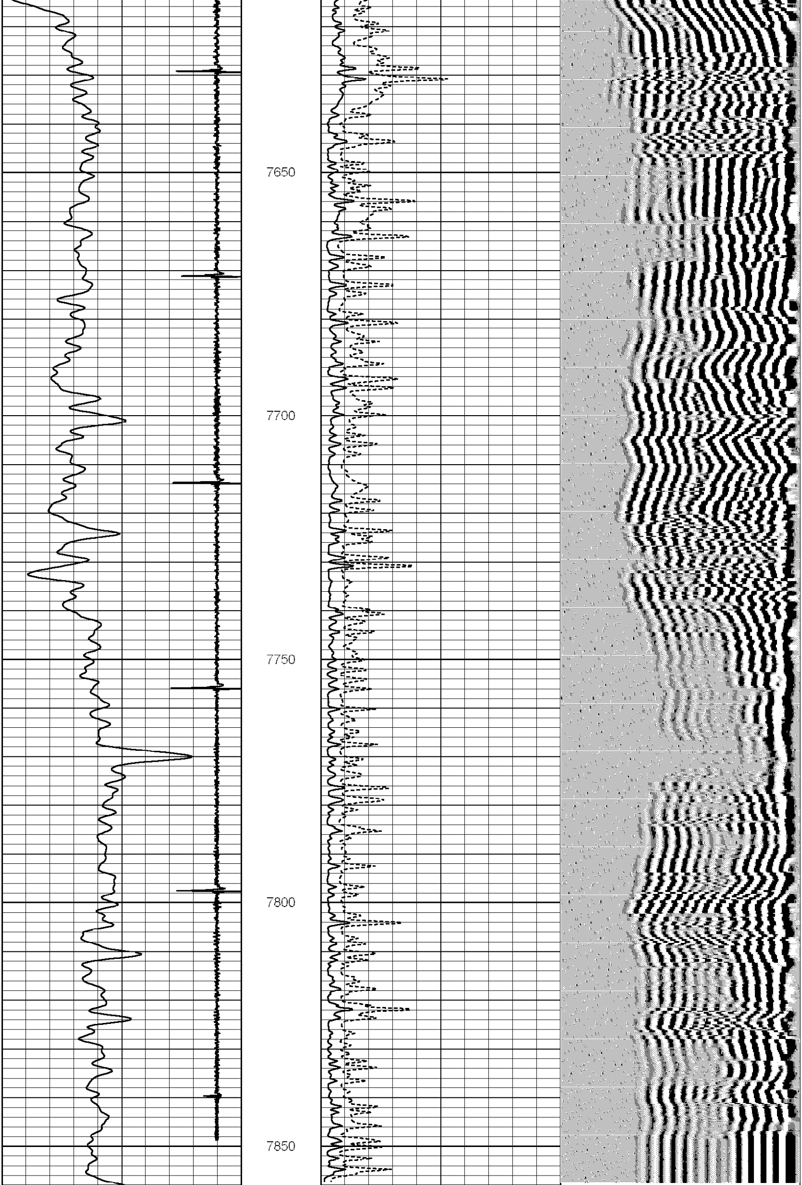












9 Collar Locator -1

0 Gamma Ray (GAPI) 200

0 Line Speed (ft/min) 100

0 Amplitude (mV) 85

200 VDL 1200

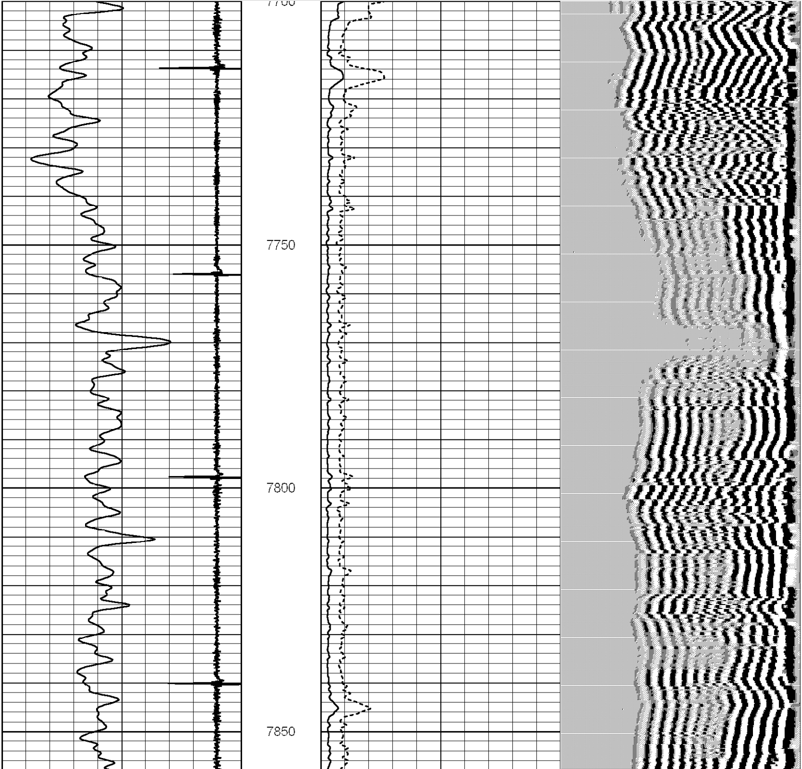
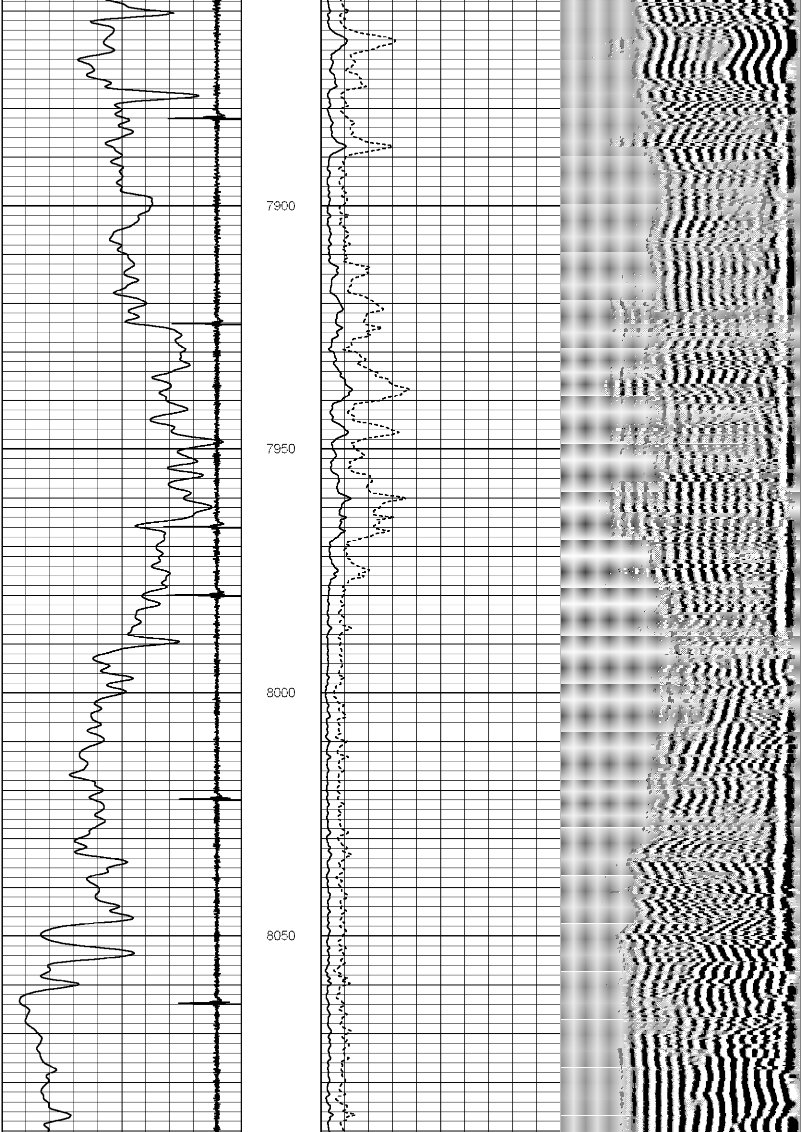
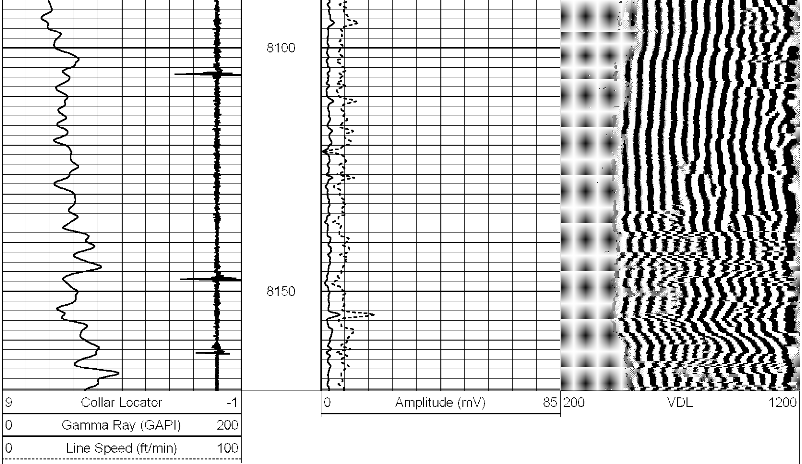
Database File:	duckworth 31-16 relog.db
Dataset Pathname:	pass2
Presentation Format:	scbl_dr
Dataset Creation:	Fri Apr 20 09:54:13 2007 by Log Warrior 7.0 STD Cas
Charted by:	Depth in Feet scaled 1:240

9 Collar Locator -1

0 Gamma Ray (GAPI) 200

0 Line Speed (ft/min) 100

0 Amplitude (mV) 85

200 VDL 1200