BRAN-DEX
WIRELINE SERVICES

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.
SECTOR MAP

Company	ENCANA OIL & GAS (USA) INC.
Well	COAL CREEK 31-19
Field	WATTENBERG
County	WELD
State	CO

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Well COAL CREEK 31-19
Field WATTENBERG
County WELD **State** CO

Location: API # :
SHL: 1156' FNL & 1508' FEL NW NE
BHL: 609' FNL & 1901' FEL

SEC 19 TWP 1N RGE 68W

Permanent Datum GL Elevation 5033
Log Measured From KB
Drilling Measured From KB

Other Services

Elevation
K.B. 5045
D.F. 5044
G.L. 5033

Date	DECEMBER 14 2006
Run Number	ONE
Depth Driller	8428
Depth Logger	8389
Bottom Logged Interval	8387
Top Log Interval	6205
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	254
Estimated Cement Top	
Time Well Ready	
Time Logger on Bottom	
Equipment Number	579
Location	STERLING
Recorded By	DIZMANG
Witnessed By	CECIL 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 1/2"			
Liner				

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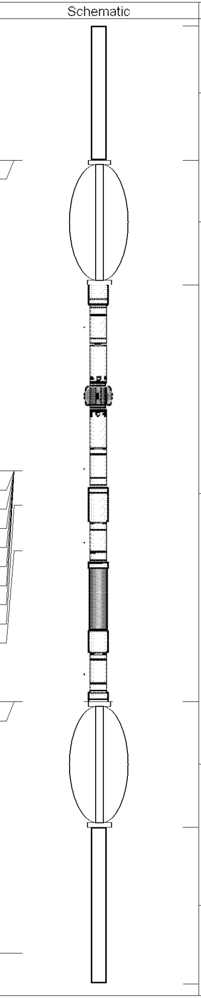
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

CORRECTED UPHOLE 2 FT TO
CORRELATE TO PSI OPENHOLE LOG DATED DECEMBER 2 2006
LOG RUN UNDER 1000 PSI

Sensor	Offset (ft)
CCL	17.96
CENT	17.96
WVFS1	11.19
WVFS2	11.19
WVFS3	11.19
WVFS4	11.19
WVFS5	11.19
WVFS6	11.19
WVFS7	11.19
WVFS8	11.19
WVF3FT	10.44
WVF5FT	9.44
WVFCAL	6.15
CENT	6.15
GR	0.67

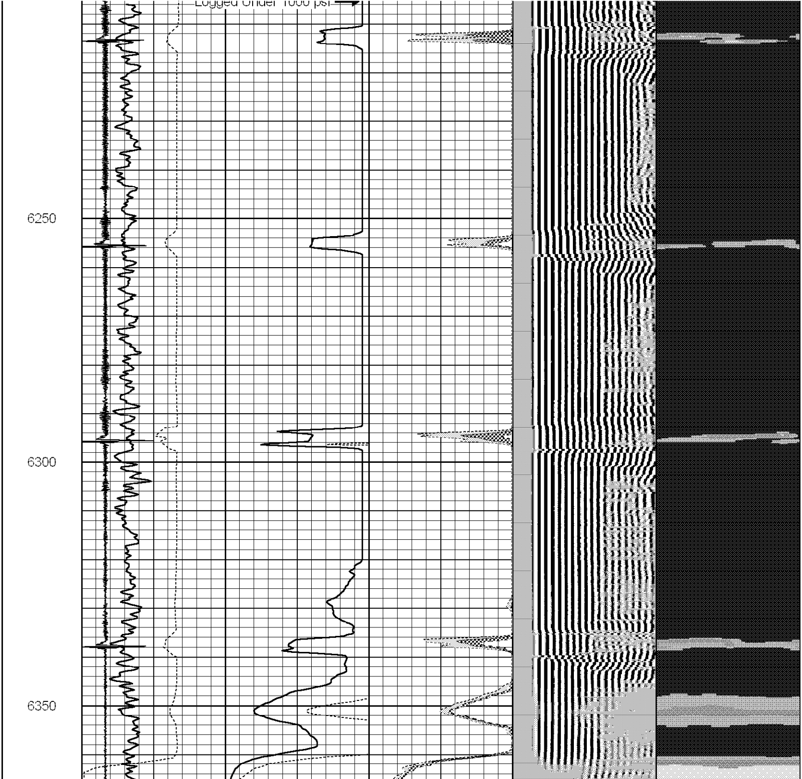
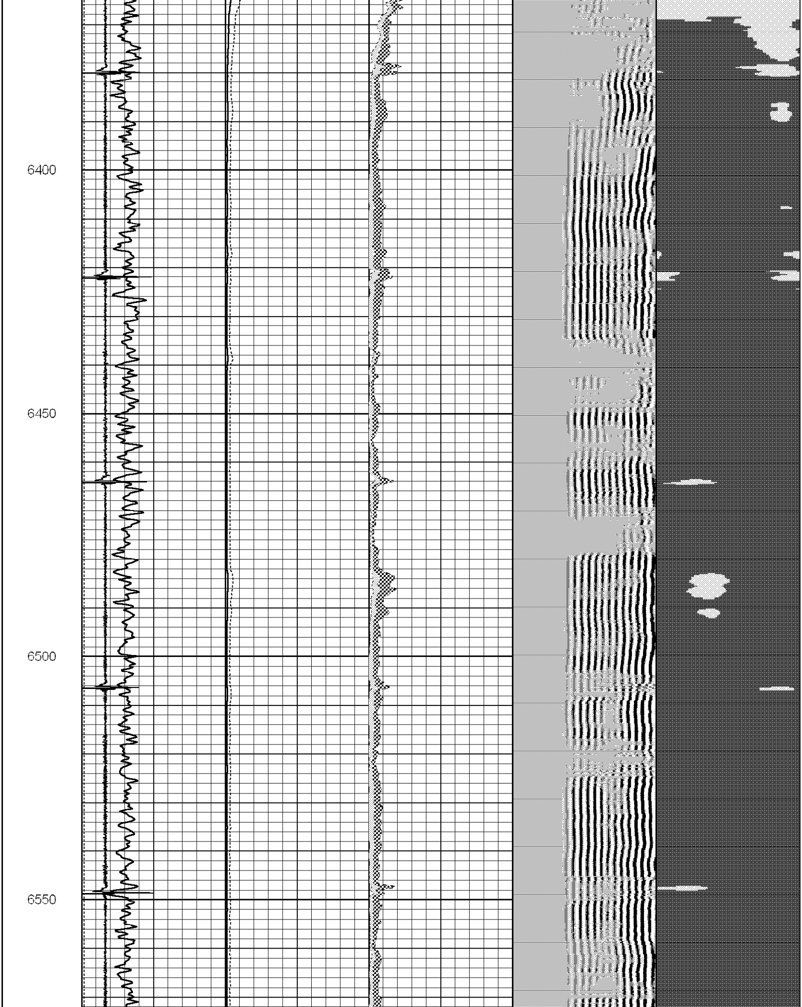
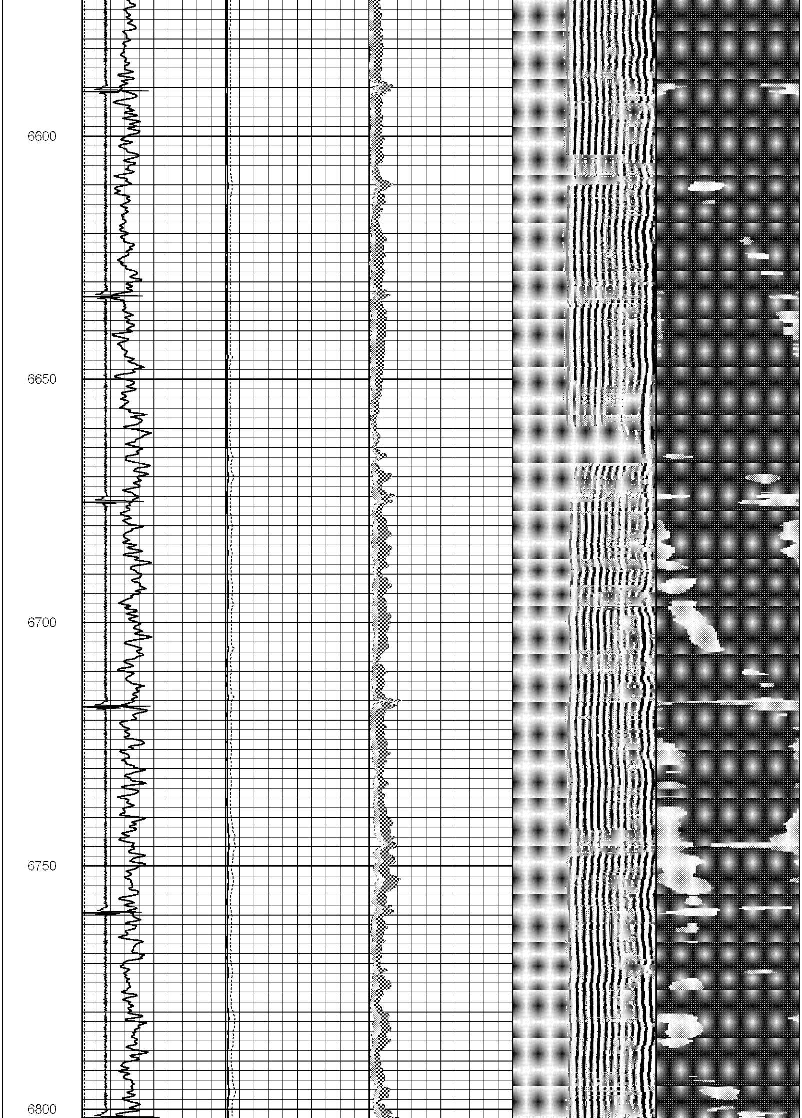
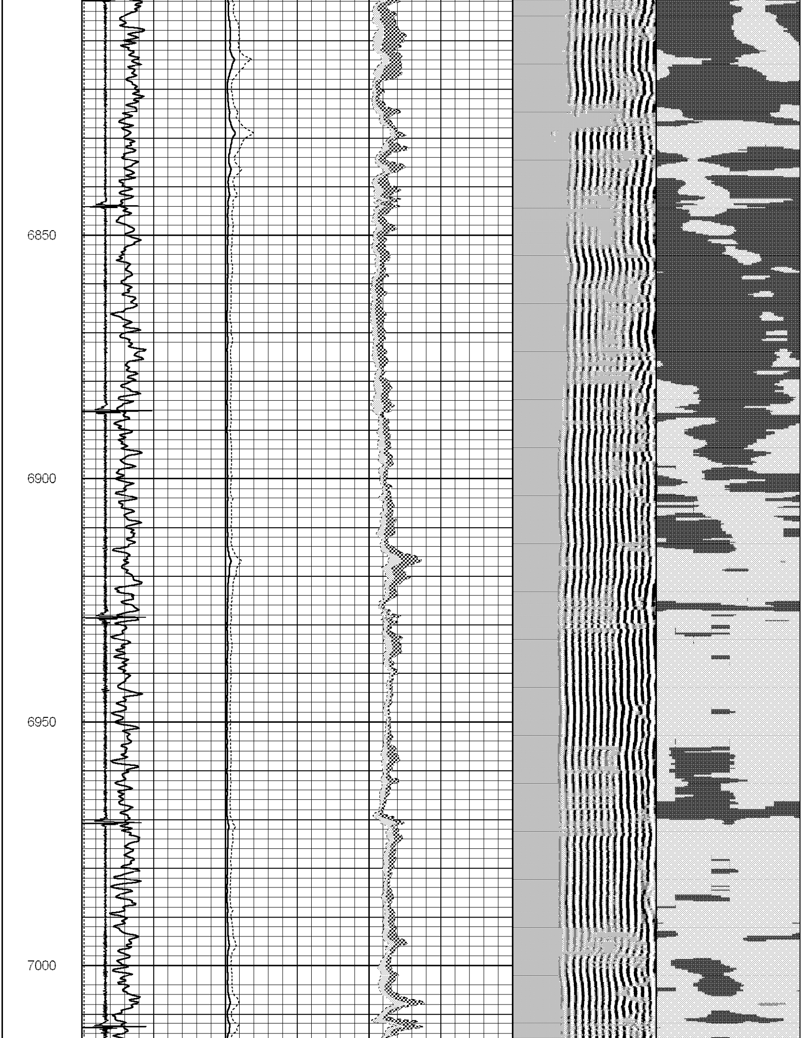
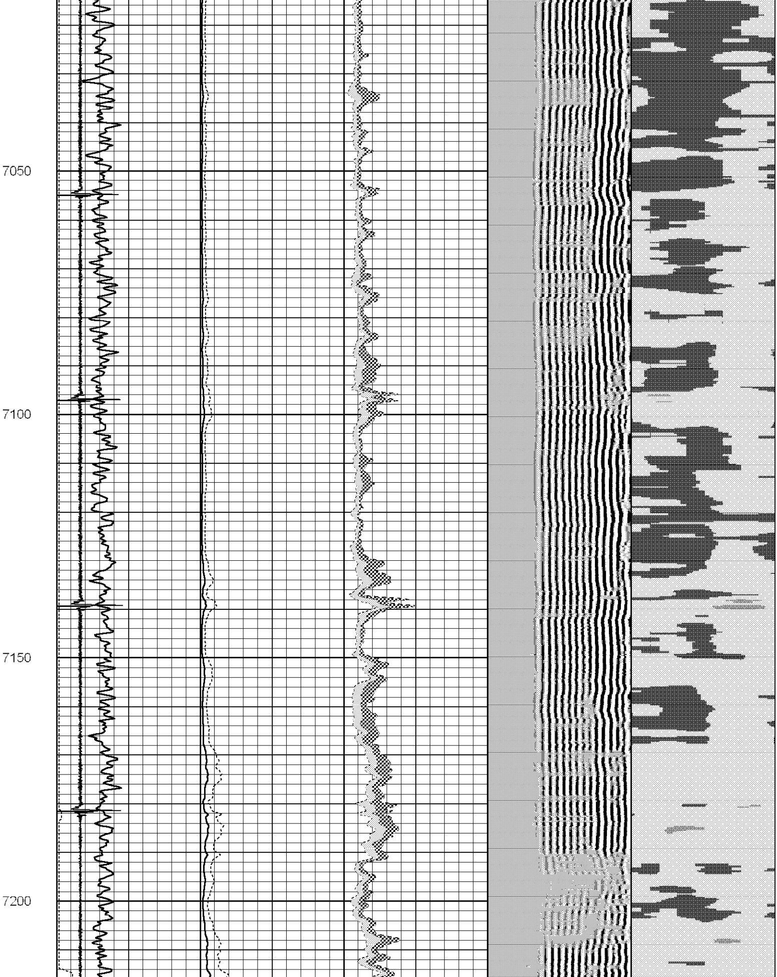
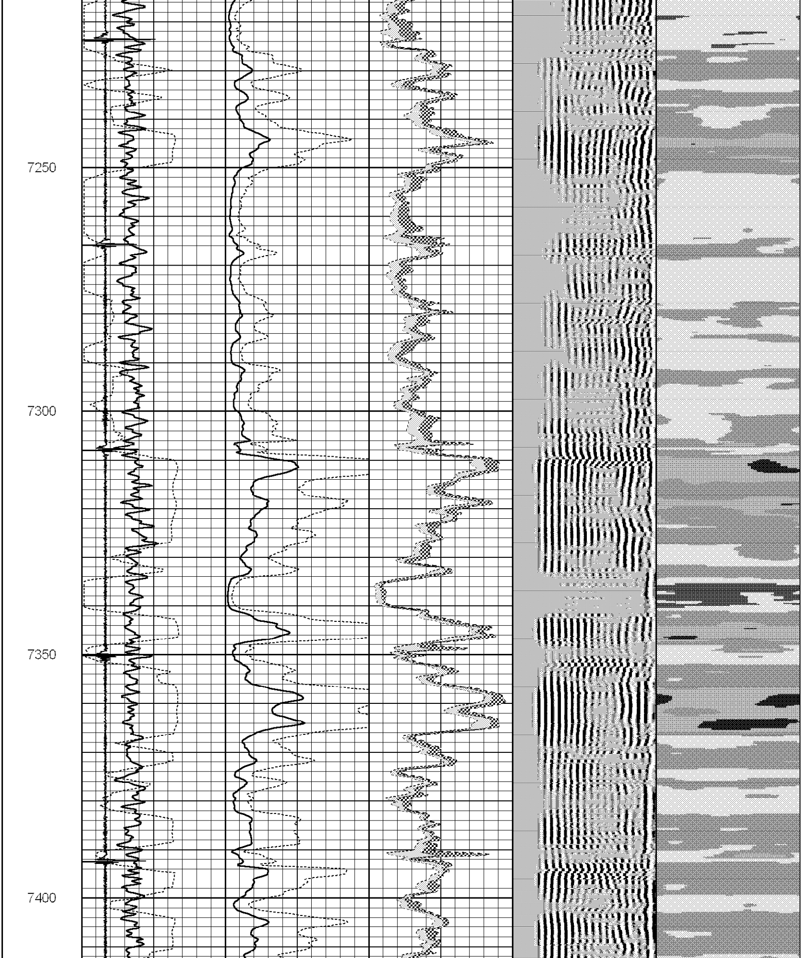
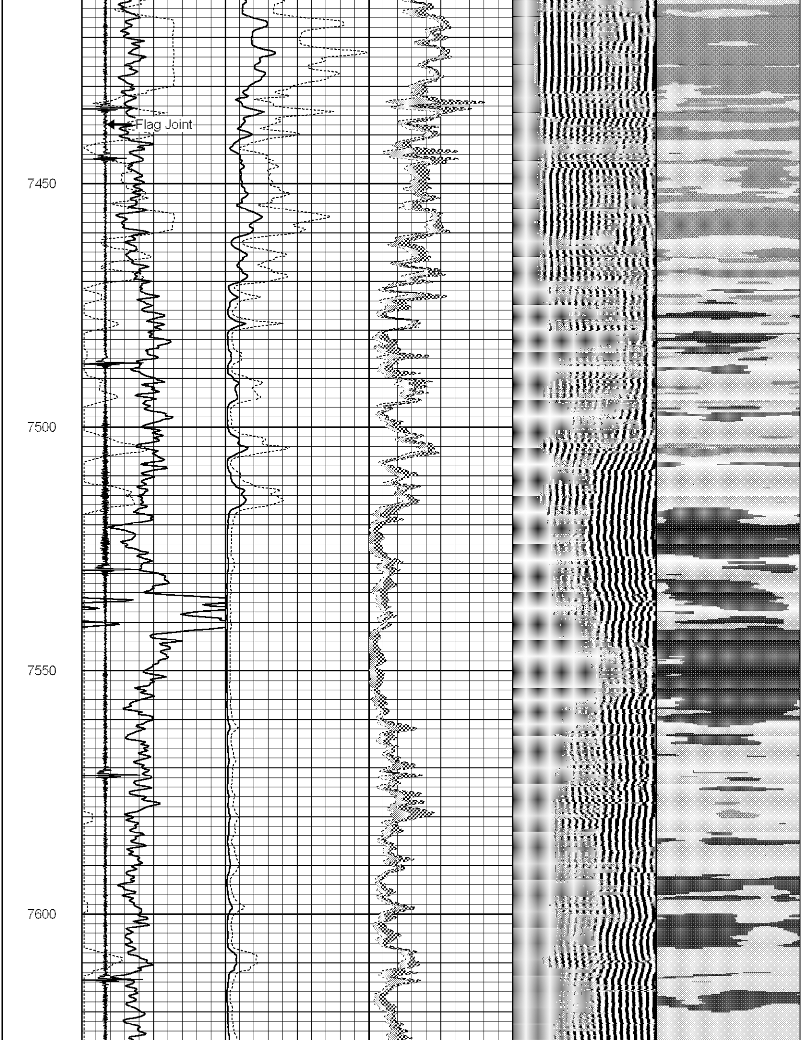
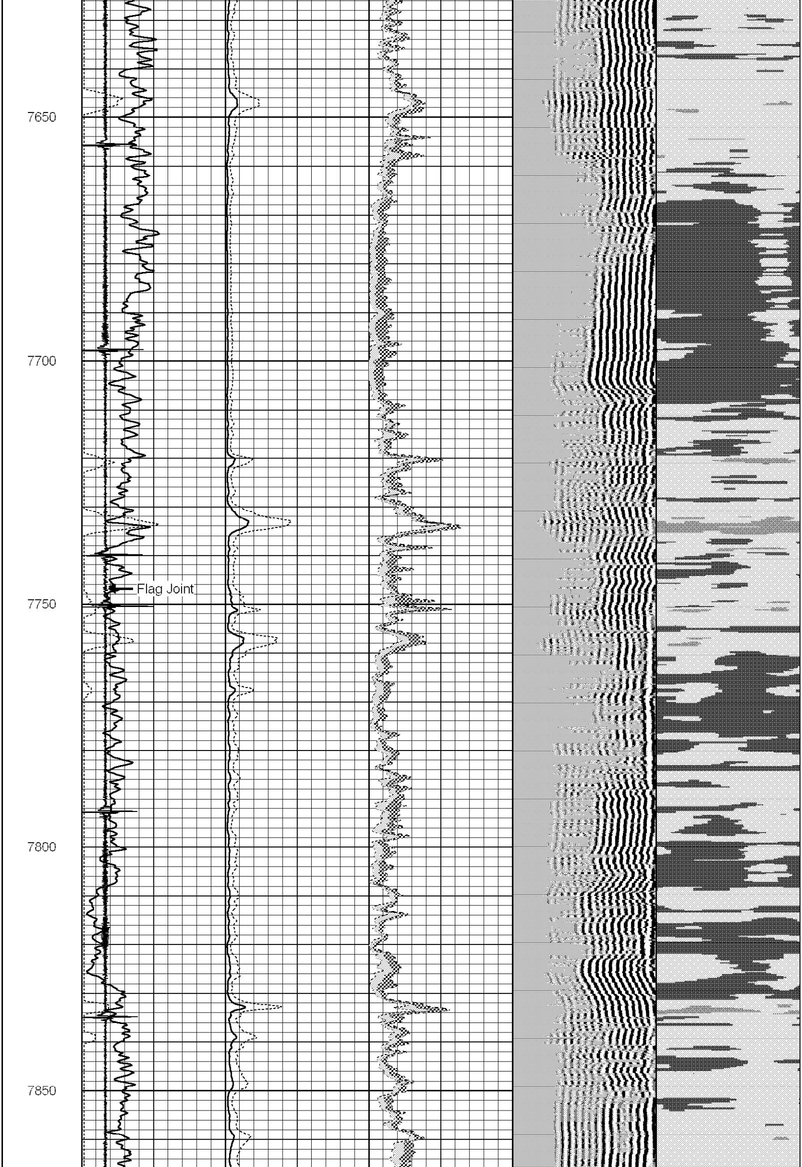
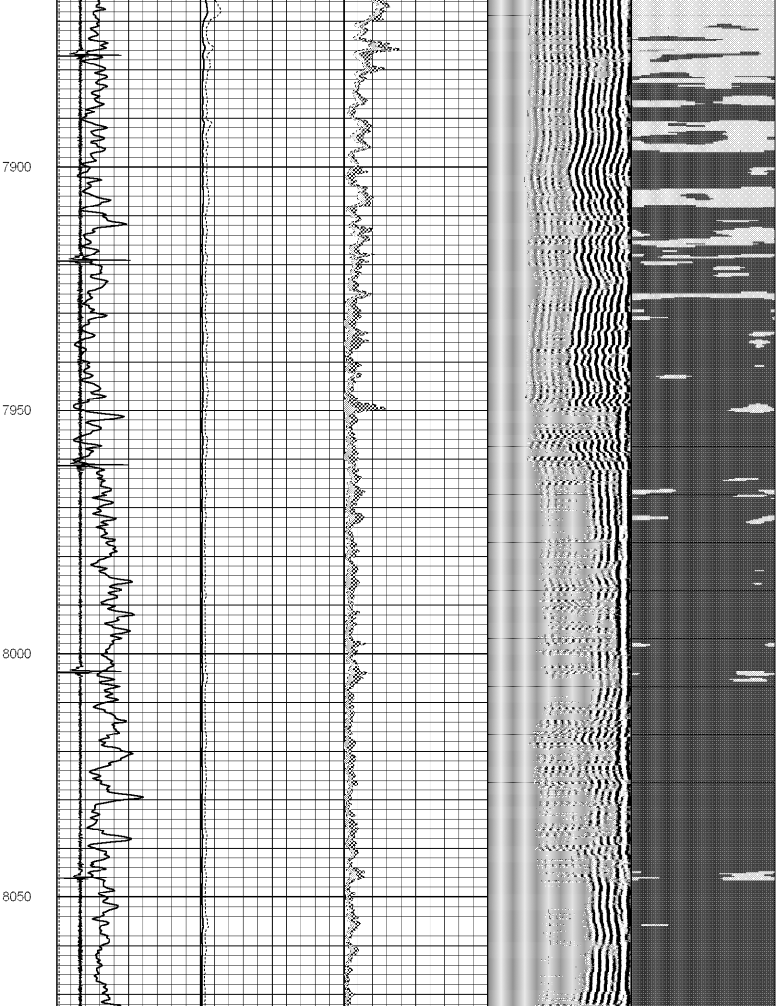
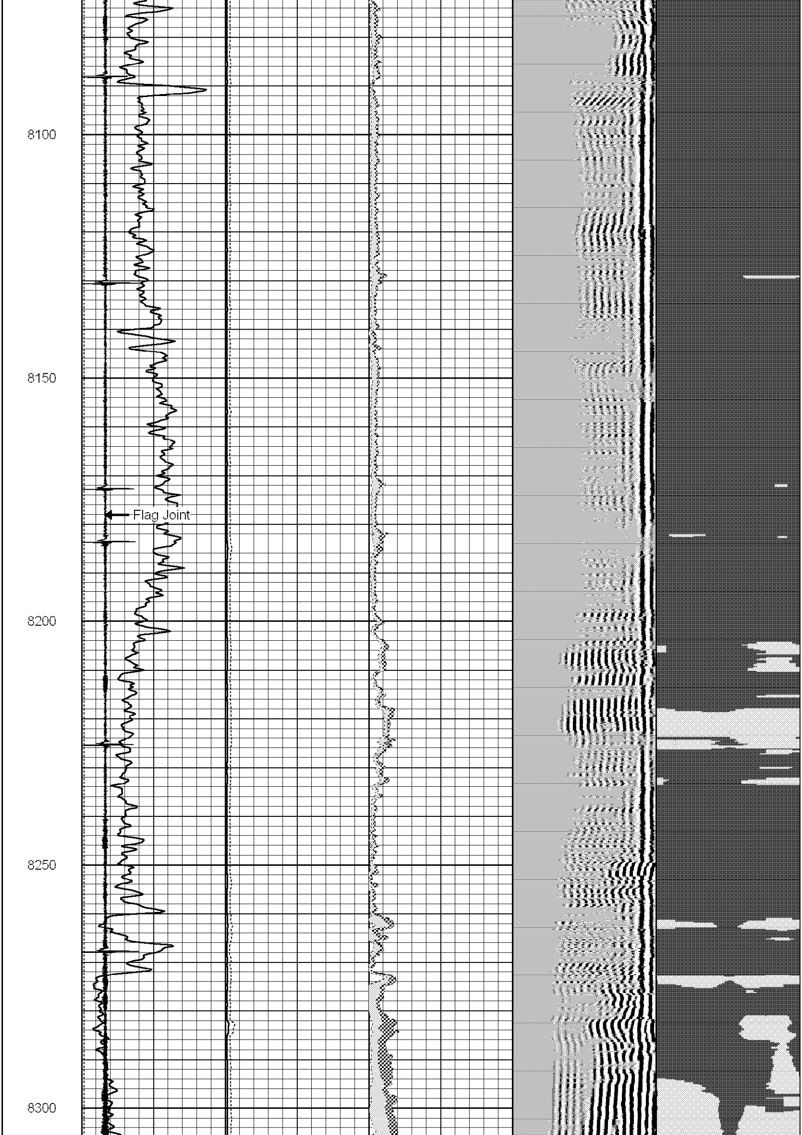
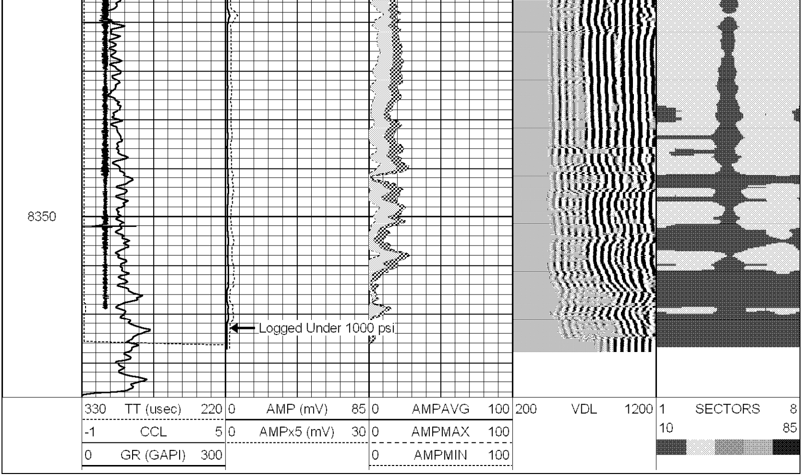
Schematic



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-FLEX (101) Flexstack Gamma Ray	3.42	1.69	22.05

Dataset:	coal creek31-19.db: field/well/run1/pass3
Total Length:	20.88 ft
Total Weight:	161.05 lb
O.D.	2.75 in

Database File: c:\warrior\data\coal creek31-19.db
Dataset Pathname: pass3
Presentation Format: scbl
Dataset Creation: Thu Dec 14 13:31:04 2006 by Log Std Casedhole 06040
Charted by: Depth in Feet scaled 1:240

330 TT (usec) 220	0 AMP (mV) 85	0 AMPAVG 100	200 VDL 1200	1 SECTORS 8
-1 CCL 5	0 AMPx5 (mV) 30	0 AMPMAX 100		10 85
0 GR (GAPI) 300		0 AMPMIN 100		▨