BRAN-DEX

WIRELINE SERVICES

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

Company ENCANA OIL & GAS (USA) INC.
Well VESSELS 23-19
Field WATTENBERG
County WELD
State CO

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County WELD State CO

Location: API # :

SHL: 1557' FSL & 1053' FWL NW SW
BHL: 2080' FSL & 1980' FWL

SEC 19 TWP 1N RGE 68W

Other Services

Permanent Datum	GL	Elevation	5061
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5073
D.F. 5072
G.L. 5061

Date	NOVEMBER 28 2006		
Run Number	ONE		
Depth Driller			
Depth Logger	8508		
Bottom Logged Interval	8506		
Top Log Interval	6673		
Open Hole Size			
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
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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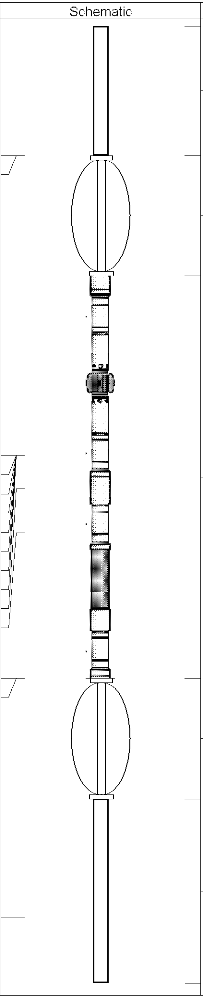
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

LOG RUN UNDER 1000PSI

Sensor	Offset (ft)
CCL	18.71
CENT	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
CENT	6.90
GR	1.50

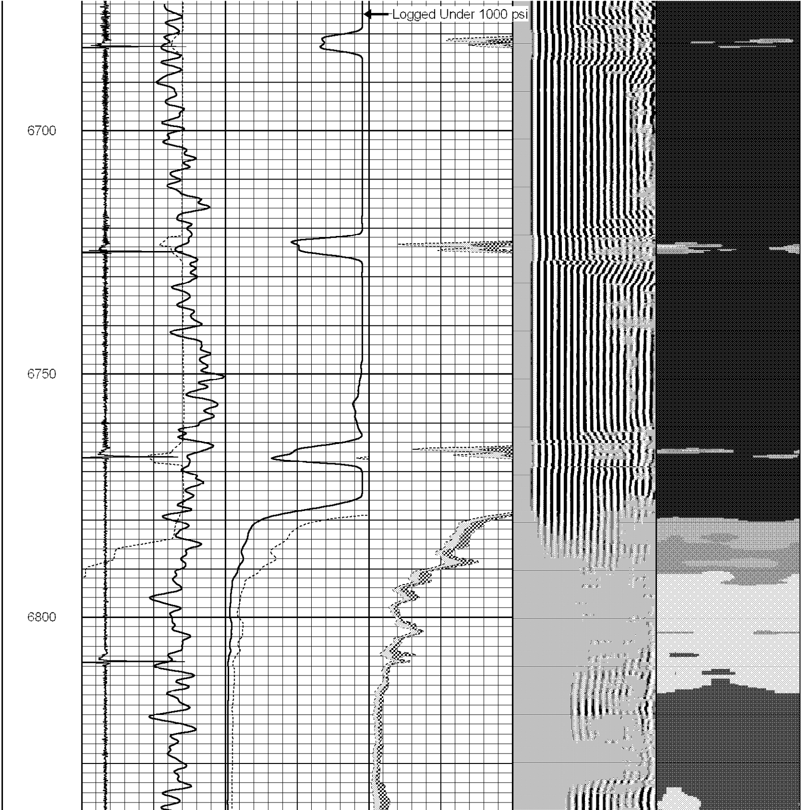
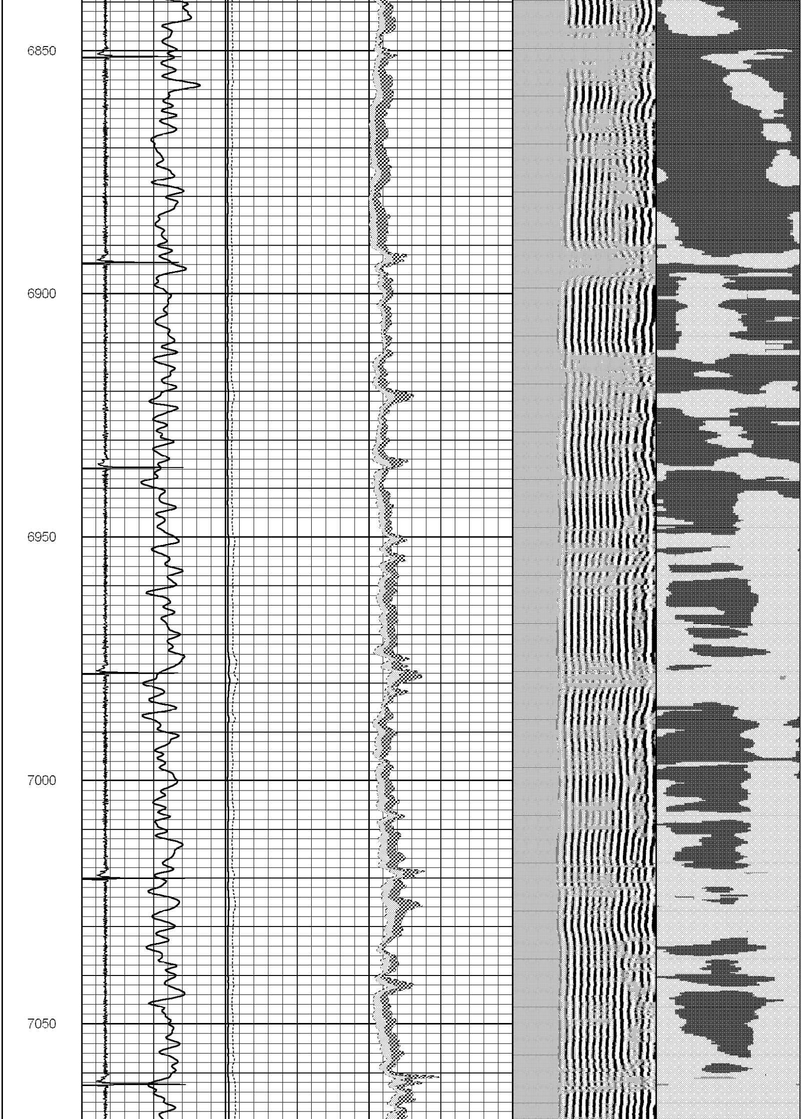
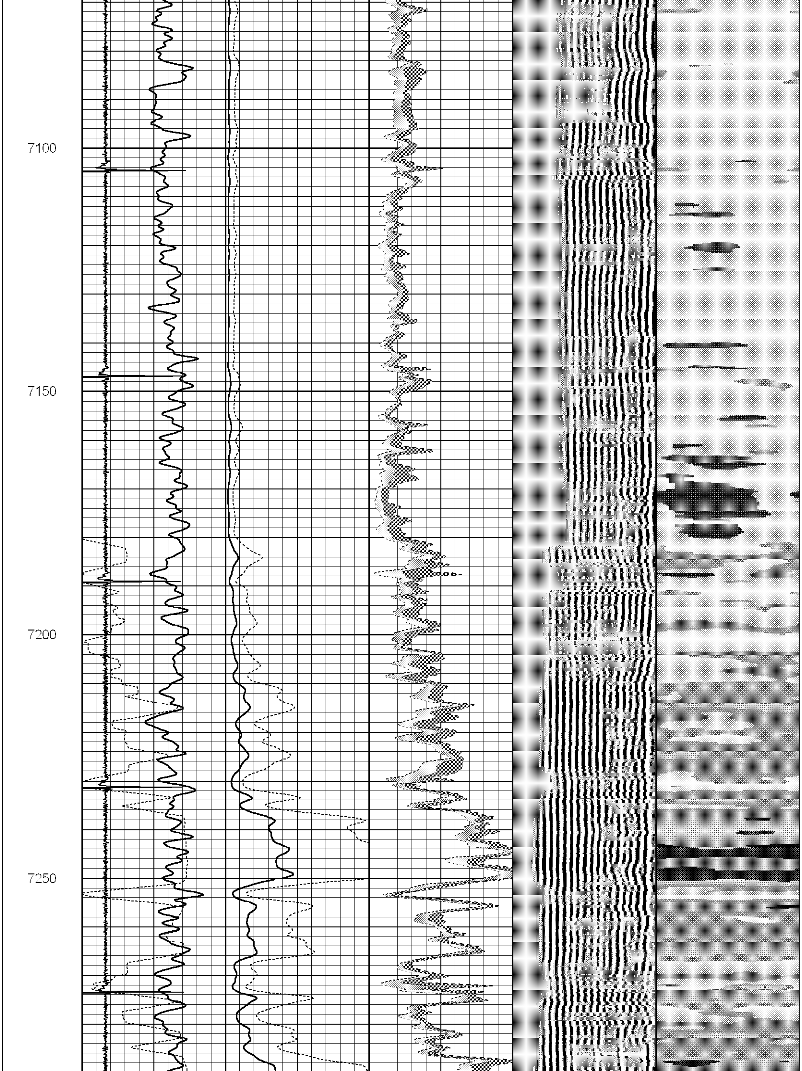
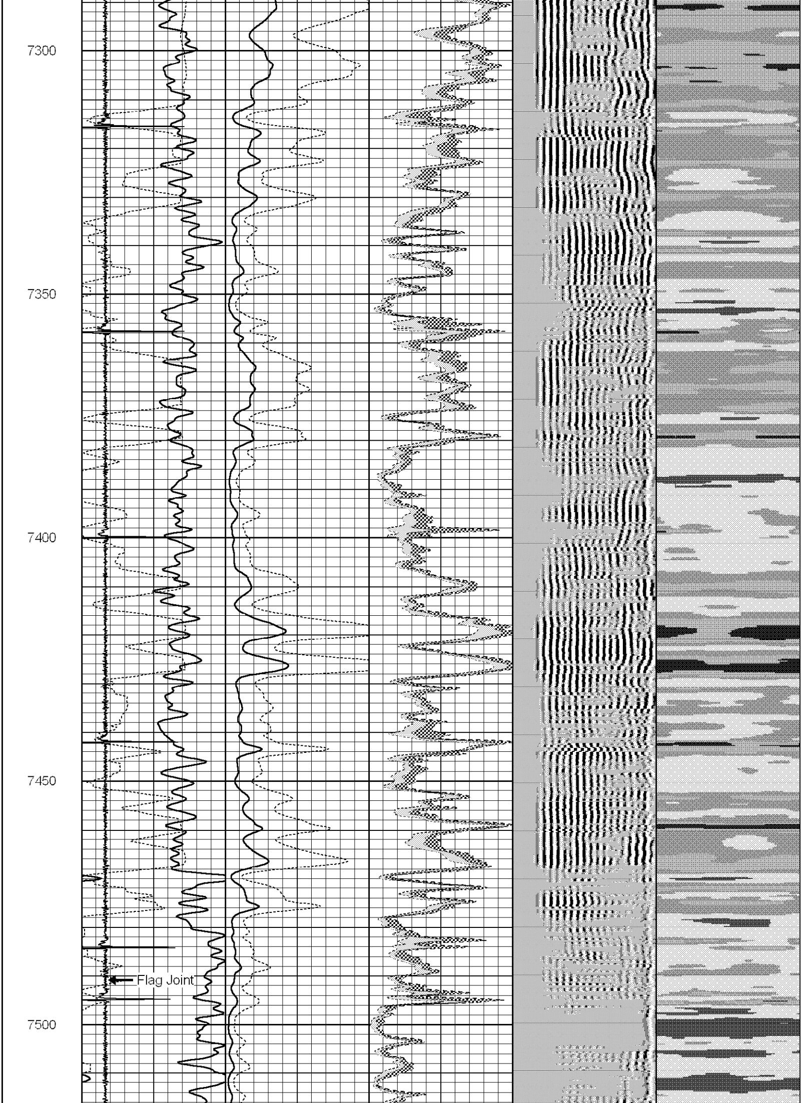
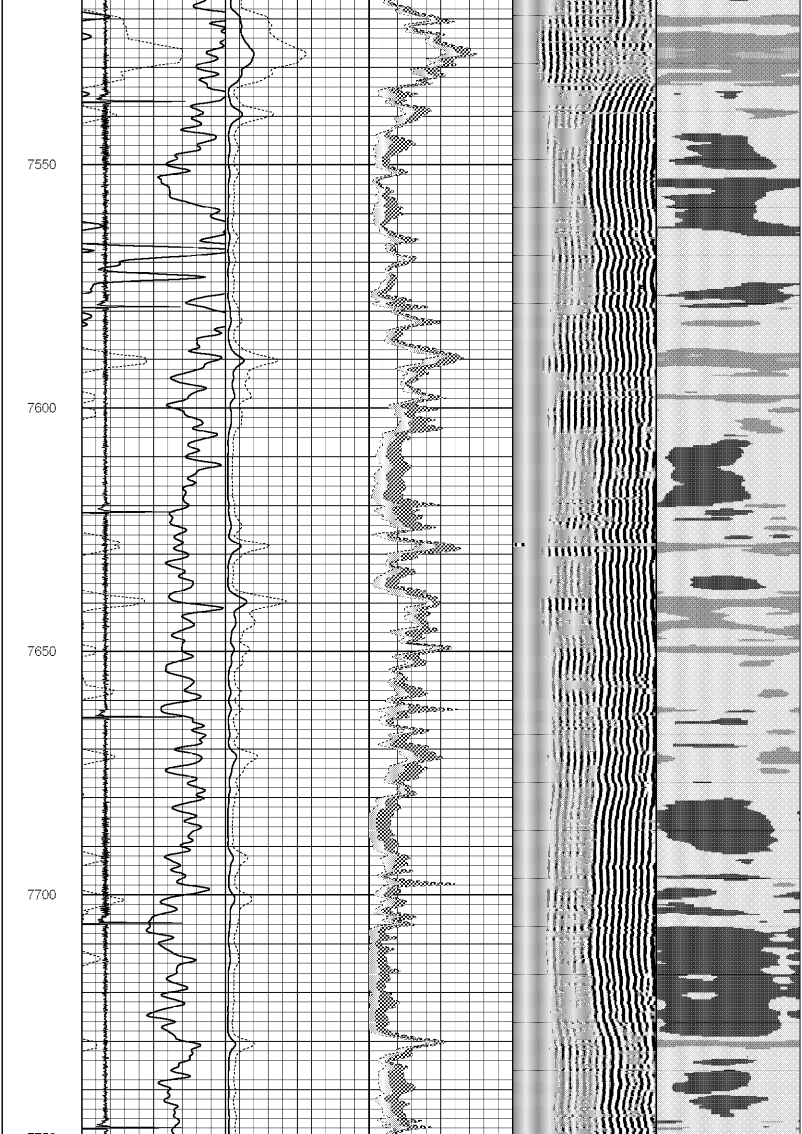
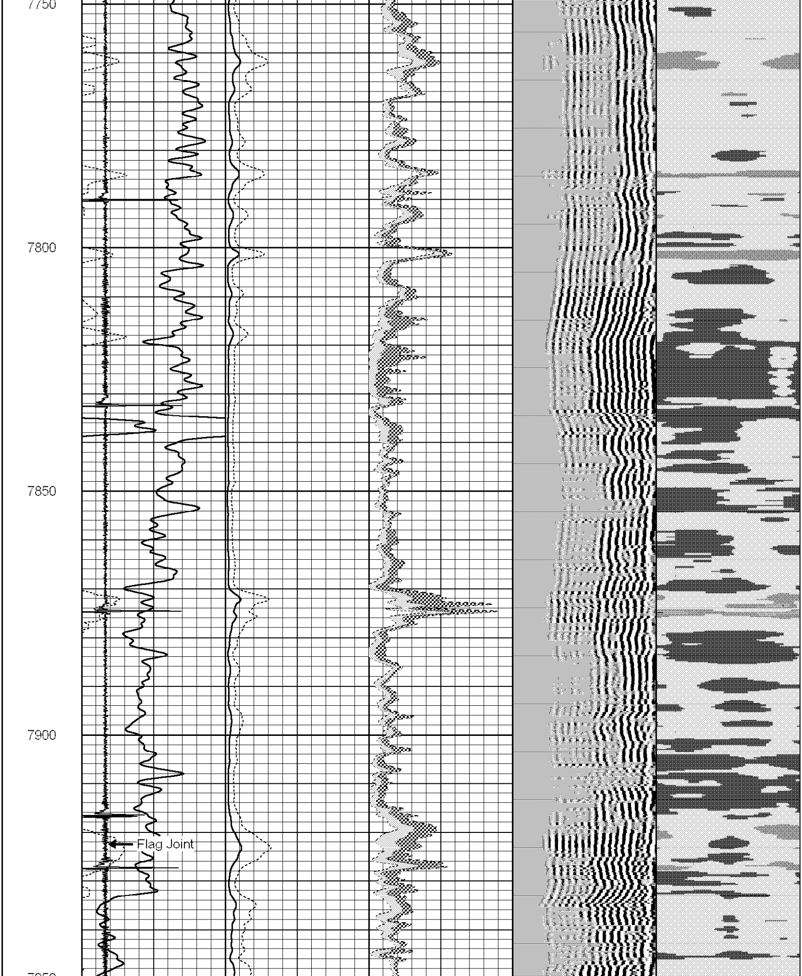
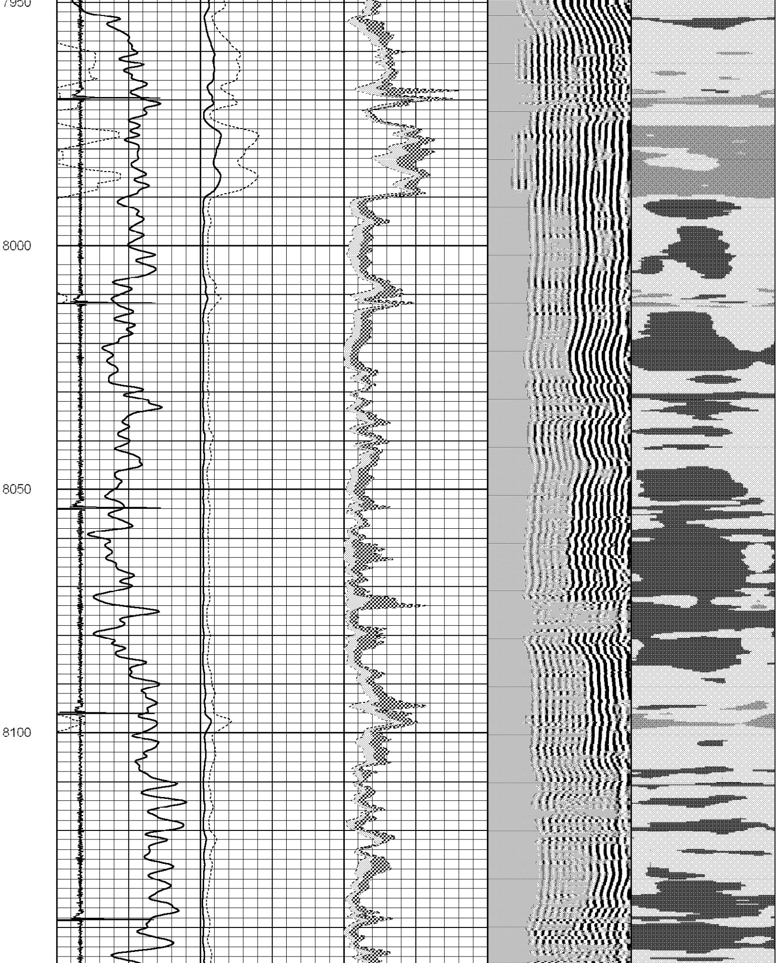
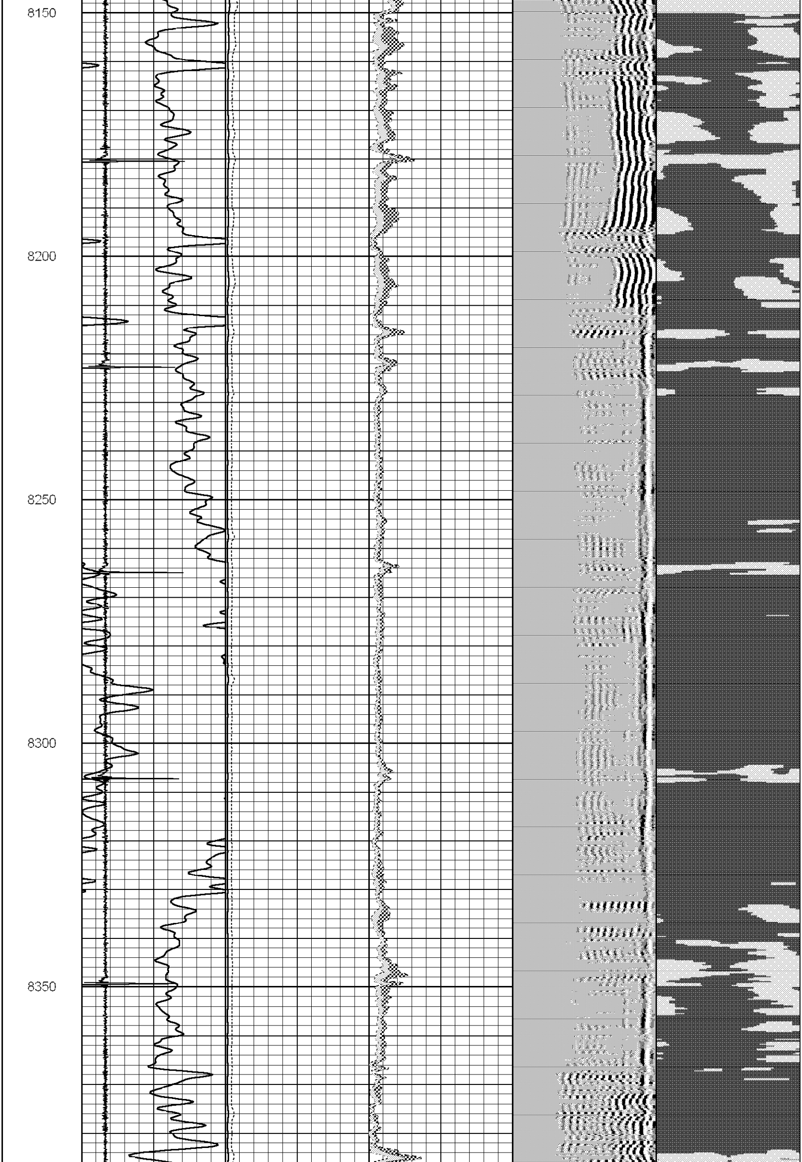
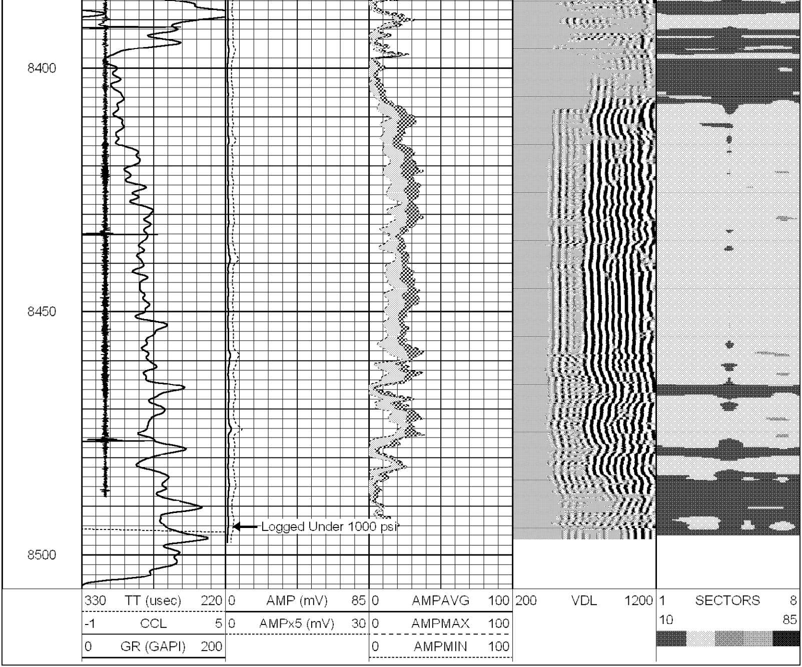
Schematic



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: vessels23-19.db: field/well/run1/pass1
Total Length: 21.63 ft
Total Weight: 164.00 lb
O.D. 2.75 in

Database File: c:\warrior\data\vessels23-19.db
Dataset Pathname: pass1
Presentation Format: scbl
Dataset Creation: Tue Nov 28 16:36:17 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) 200		0 AMPMIN 100