PSI
PHOENIX SURVEYS, INC.

V.D.L. C.C.L. GAMMA RAY
CEMNT BOND LOG

Company BLACK RAVEN ENERGY
Well GLENN-BIDDLE A #10
Field ADENA
County MORGAN
State COLORADO

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Location: API # : 05-087-05494
330' FSL & 2320' FWL
SESW
SEC 32 TWP 2N RGE 57W

Other Services
NONE

Permanent Datum	GL	Elevation	4463'
Log Measured From	GL		
Drilling Measured From	GL		

Elevation
K.B. ---
D.F. ---
G.L. 4463'

Date	SEPT. 14, 2011		
Run Number	ONE		
Depth Driller	---		
Depth Logger	5572'		
Bottom Logged Interval	5560'		
Top Log Interval	3070'		
Open Hole Size	7.875"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	N/A		
Time Well Ready	N/A		
Time Logger on Bottom	N/A		
Equipment Number	54		
Location	FORT MORGAN		
Recorded By	RANDY AZEVEDO		
Witnessed By	CHRIS REED		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	5.5"	15.5 LB		
Production String				
Liner				

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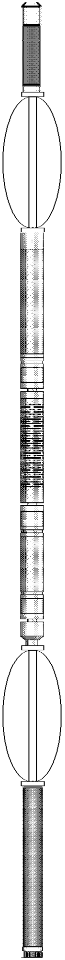
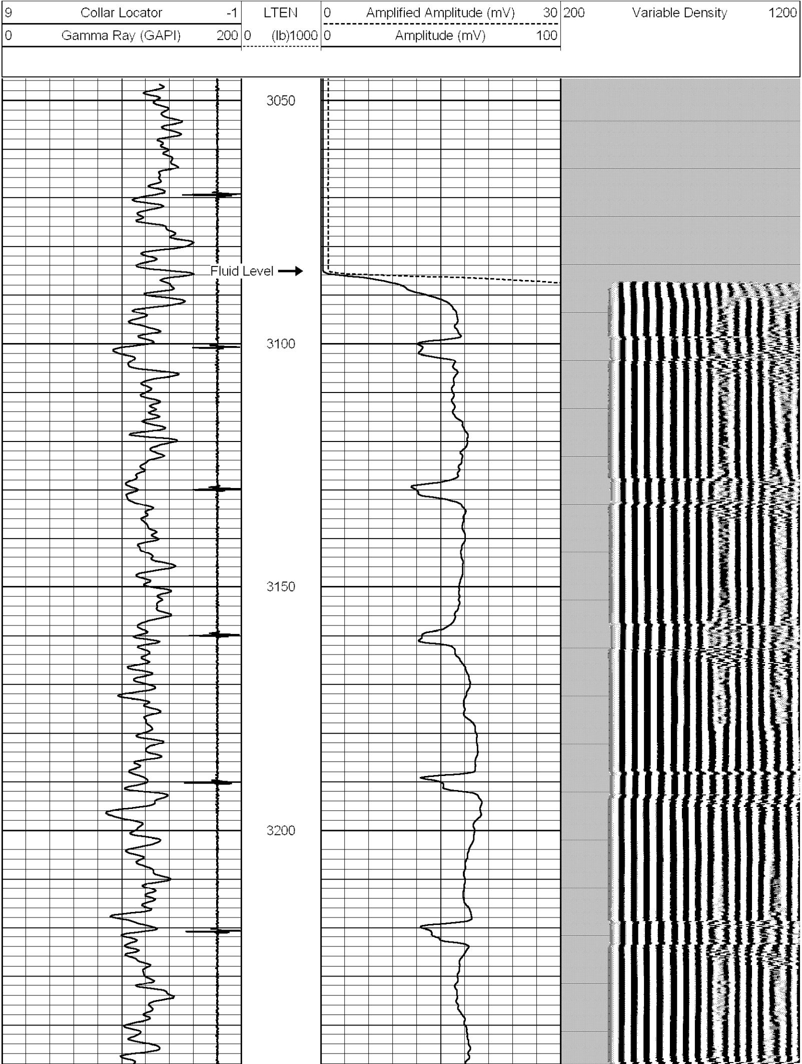
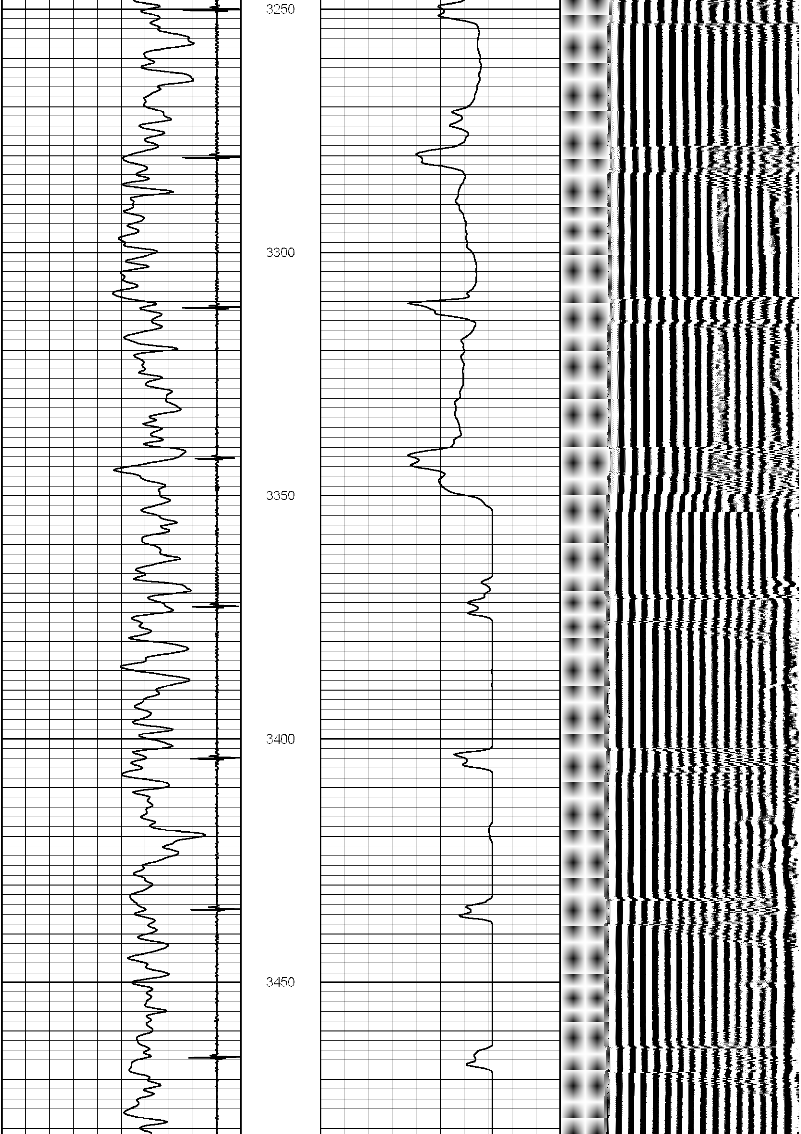
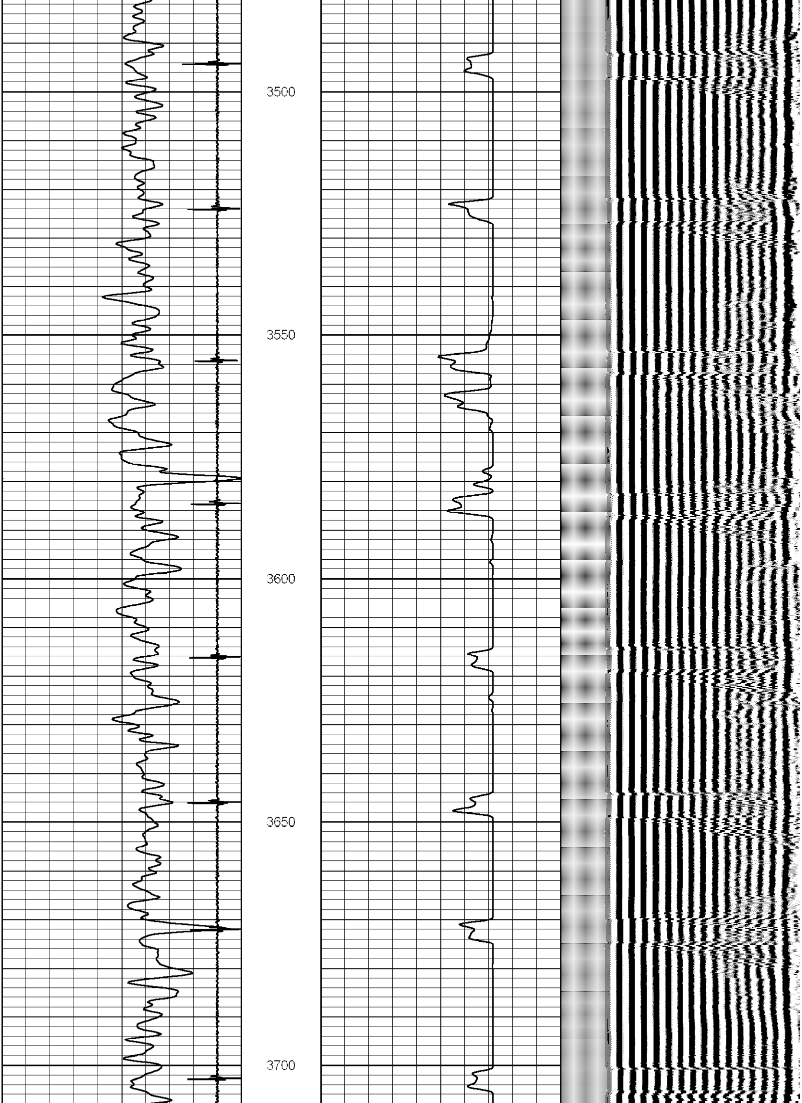
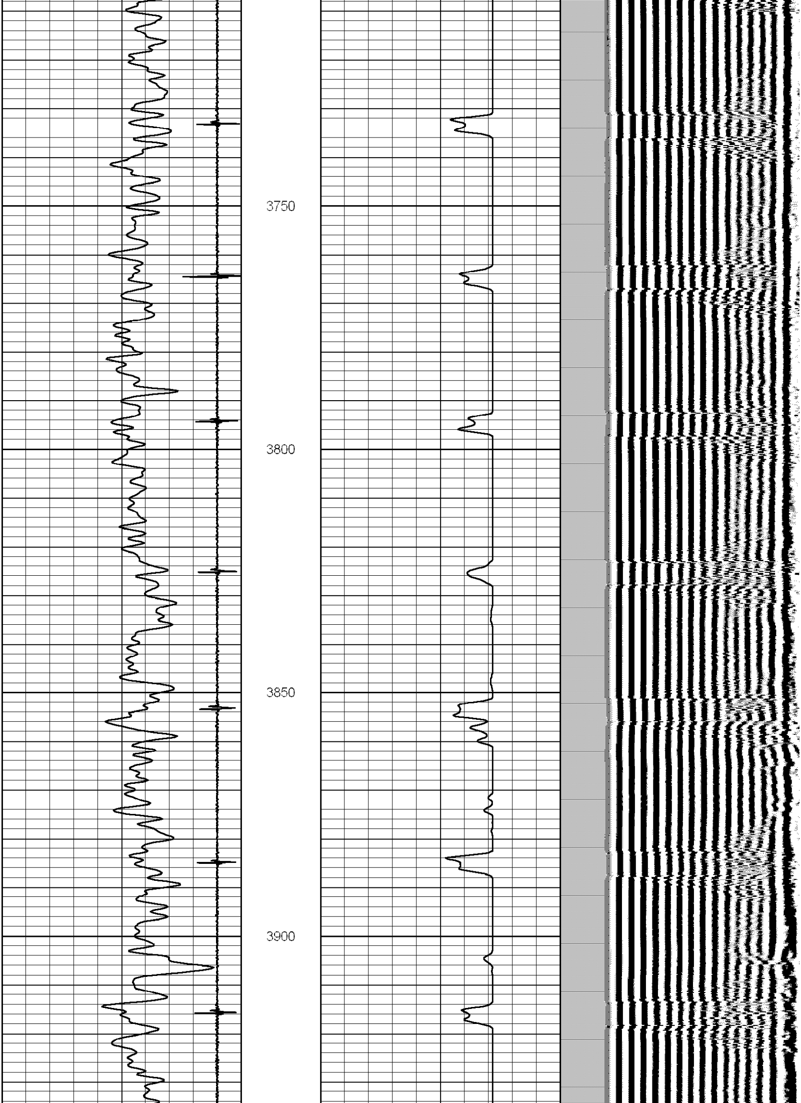
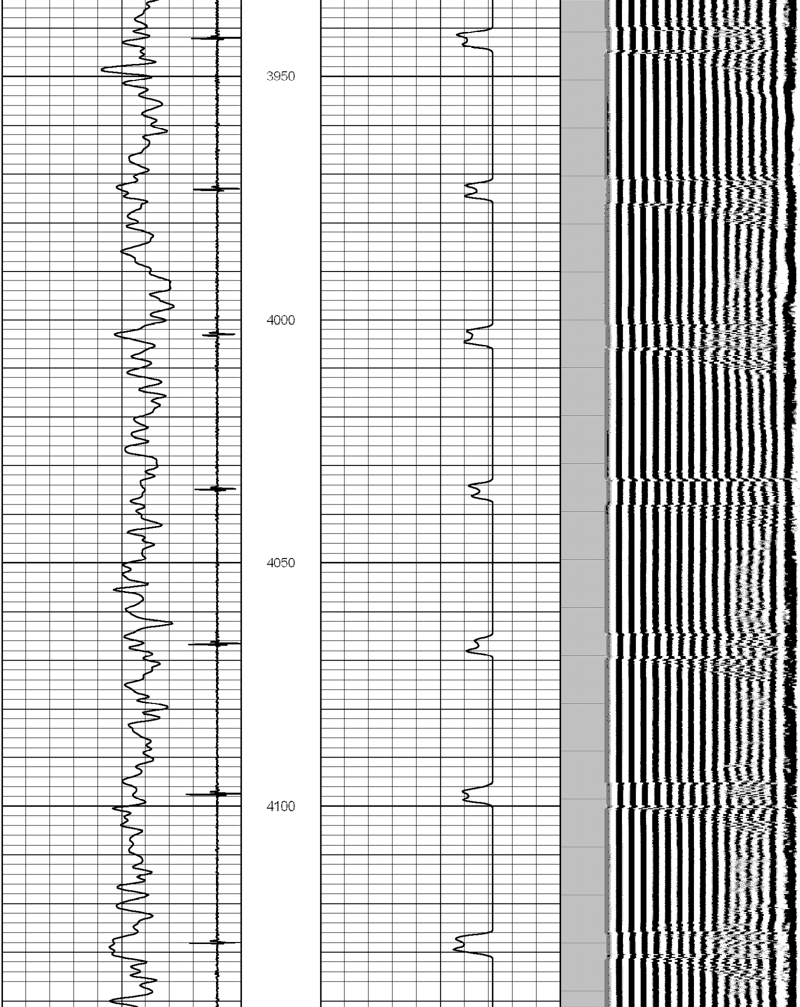
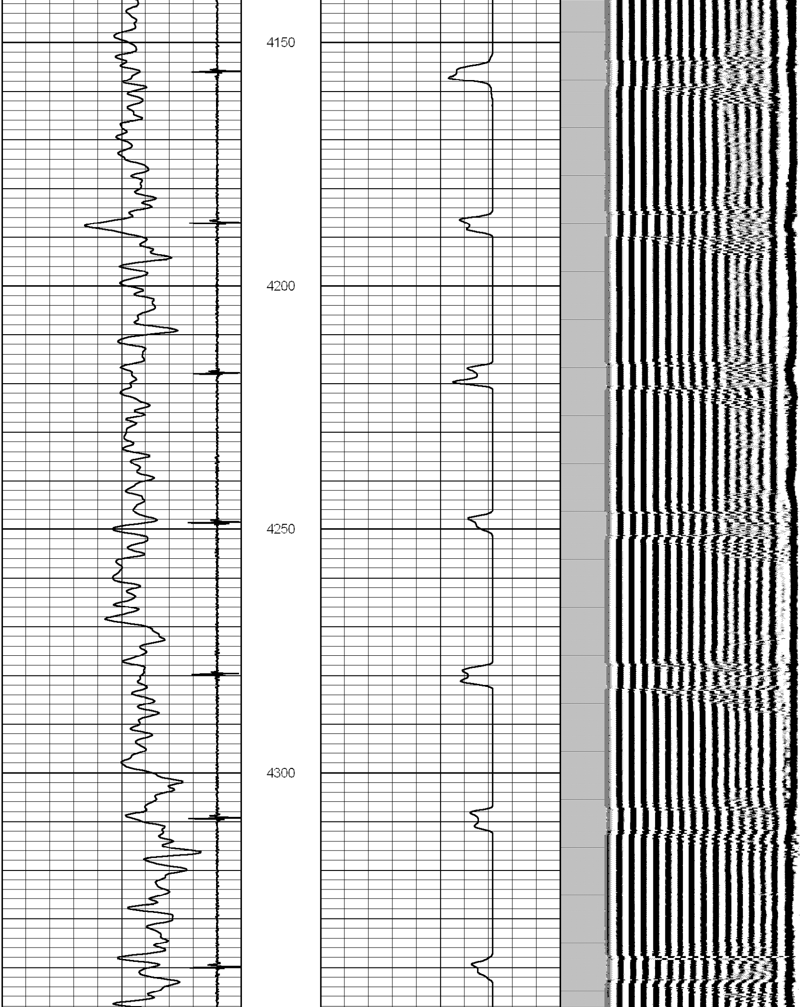
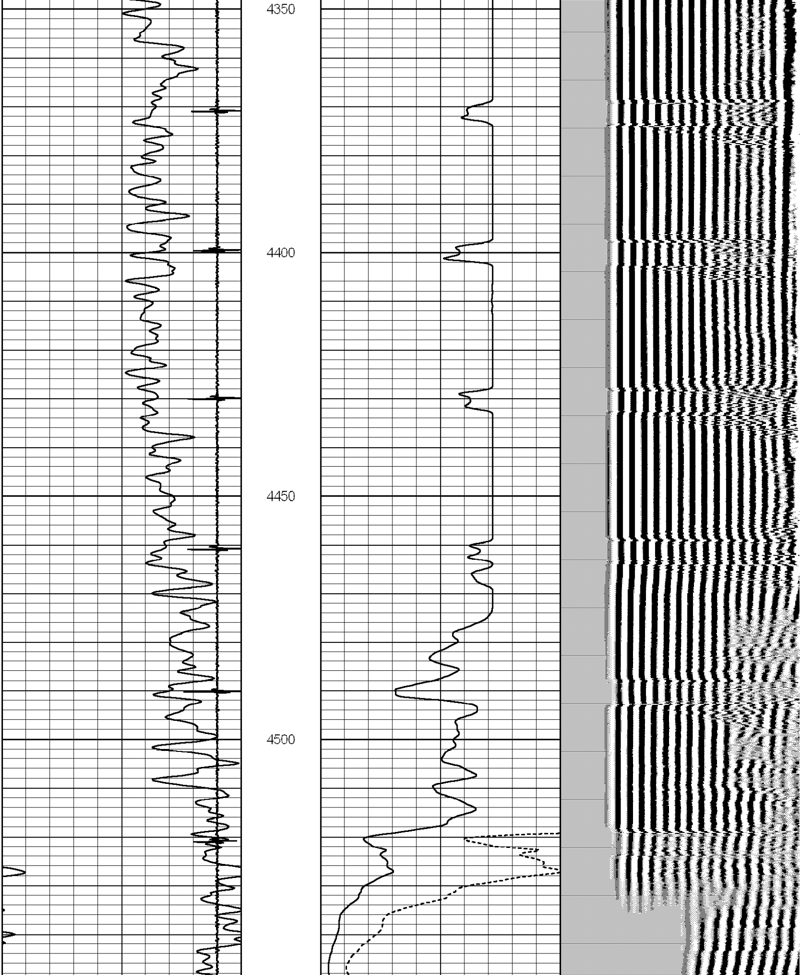
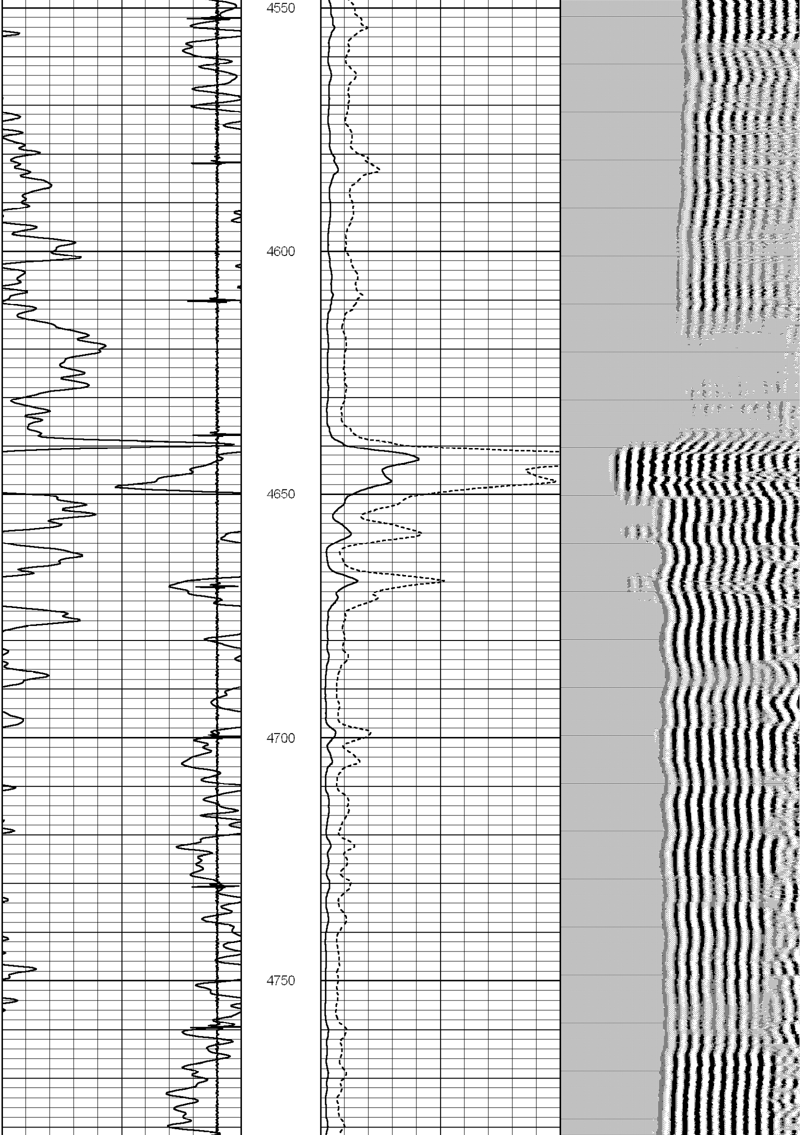
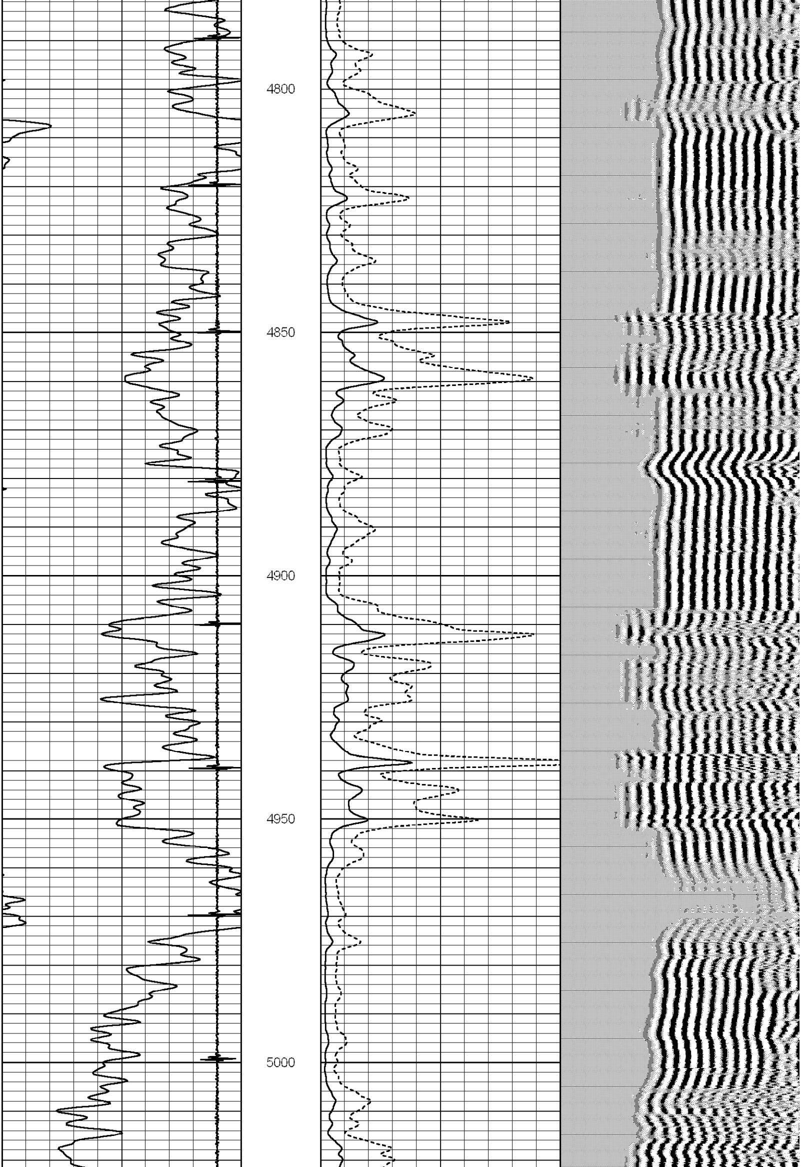
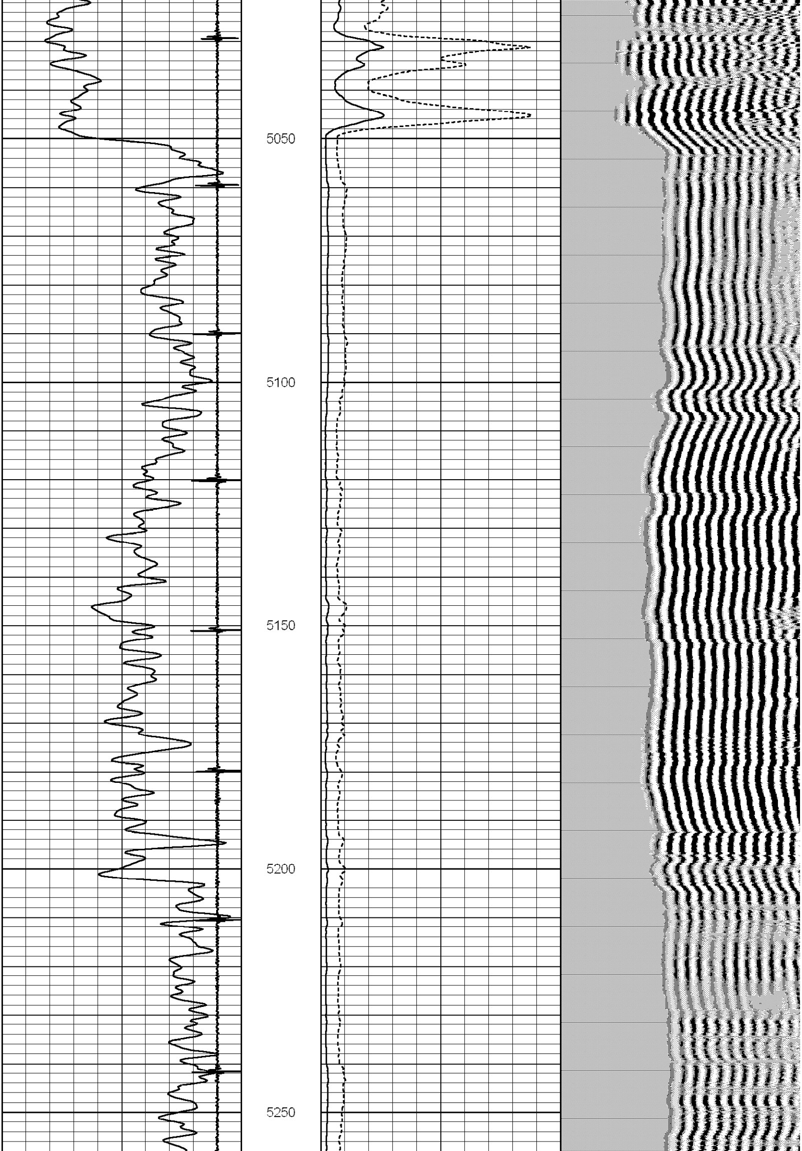
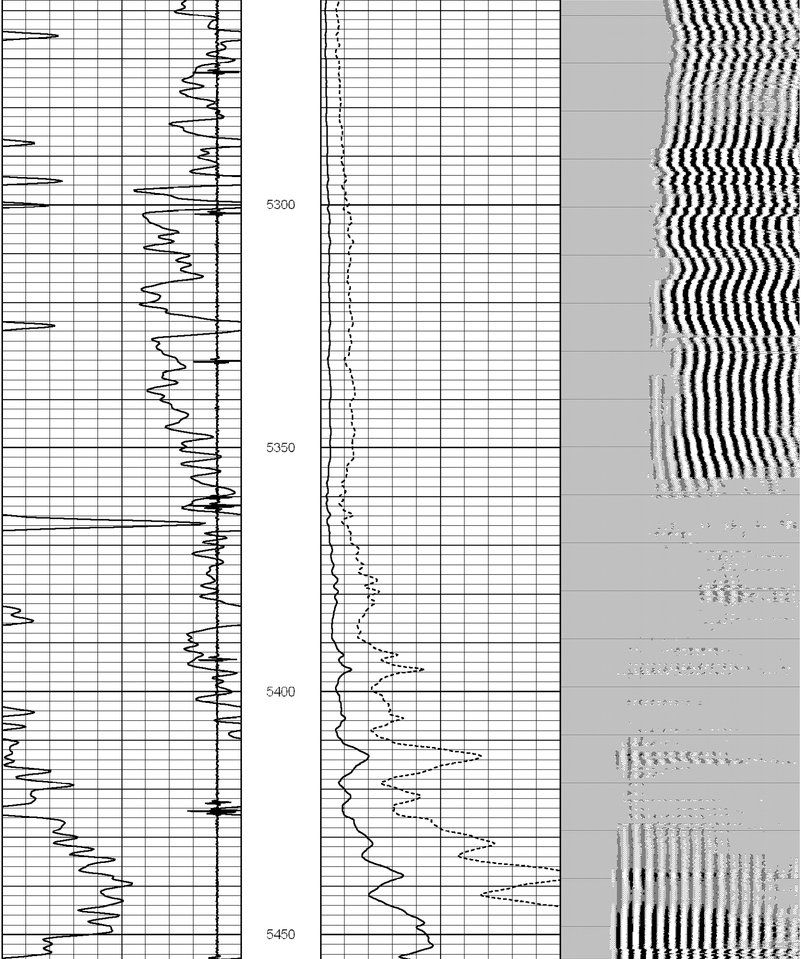
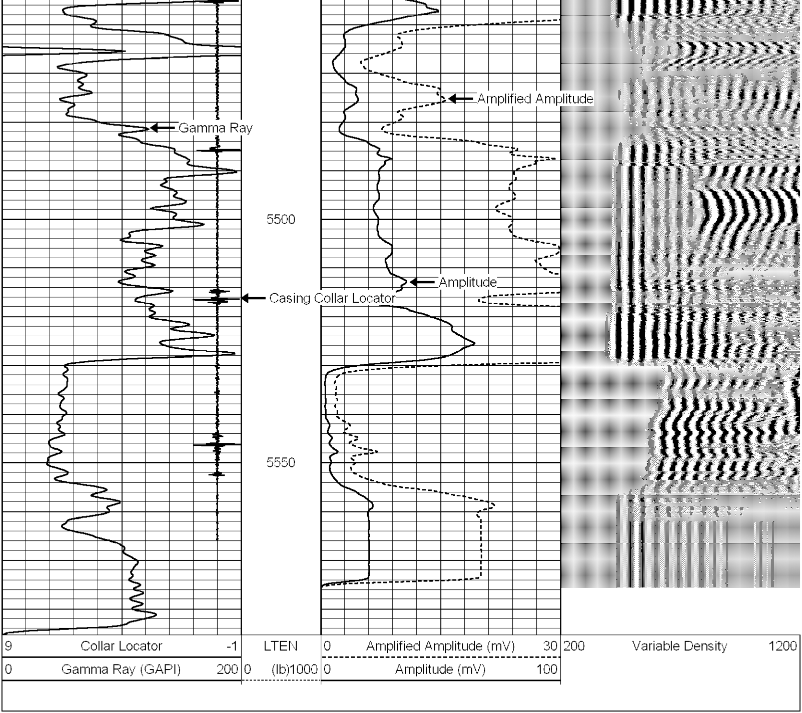
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.31		CCL-titan01 (01t)	1.92	2.75	
			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	10.92		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.75	2.75	60.00
WVF5	9.92					
			SDSCENT Centralizer for testing	3.00	3.25	20.00
			GR-probe 2.75 (51013)	3.67	2.75	100.00
GR	1.13					

Dataset:	glenn-biddle a-10.db: field/well/run1/pass2
Total Length:	20.33 ft
Total Weight:	200.00 lb
O.D.	3.25 in

Database File: c:\warrior\data\black raven\glenn-biddle a-10.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Wed Sep 14 18:26:15 2011 by Log SCH 110722
Charted by: Depth in Feet scaled 1:240