The Perforators LLC

CEMENT BOND LOG

Company MULL DRILLING COMPANY, INC.
Well SAT UNIT #1-14
Field WILDCAT
County KIOWA
State COLORADO

Company	MULL DRILLING COMPANY, INC.
Well	SAT UNIT #1-14
Field	WILDCAT
County	KIOWA
State	COLORADO

Location: API # : 05-061-06877

1251' FSL & 171' FWL

SEC 14 TWP 17S RGE 45W

Other Services

Permanent Datum	**Ground Level**	Elevation	4101
Log Measured From	**KB 11' AGL**		
Drilling Measured From	**KB**		

Elevation
K.B. 4112
D.F. 4110
G.L. 4101

Date	8-16-12		
Run Number	One		
Depth Driller	5300		
Depth Logger	5254		
Bottom Logged Interval	5252		
Top Log Interval	3400		
Open Hole Size	7 7/8"		
Type Fluid	Water		
Density / Viscosity	////		
Max. Recorded Temp.	////		
Estimated Cement Top	3650		
Time Well Ready	8:30 A.M		
Time Logger on Bottom	8:40 p.m.		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr. Tracy Akers		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8		00	352'
Prot. String				
Production String	5 1/2	14LB		5298
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

Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

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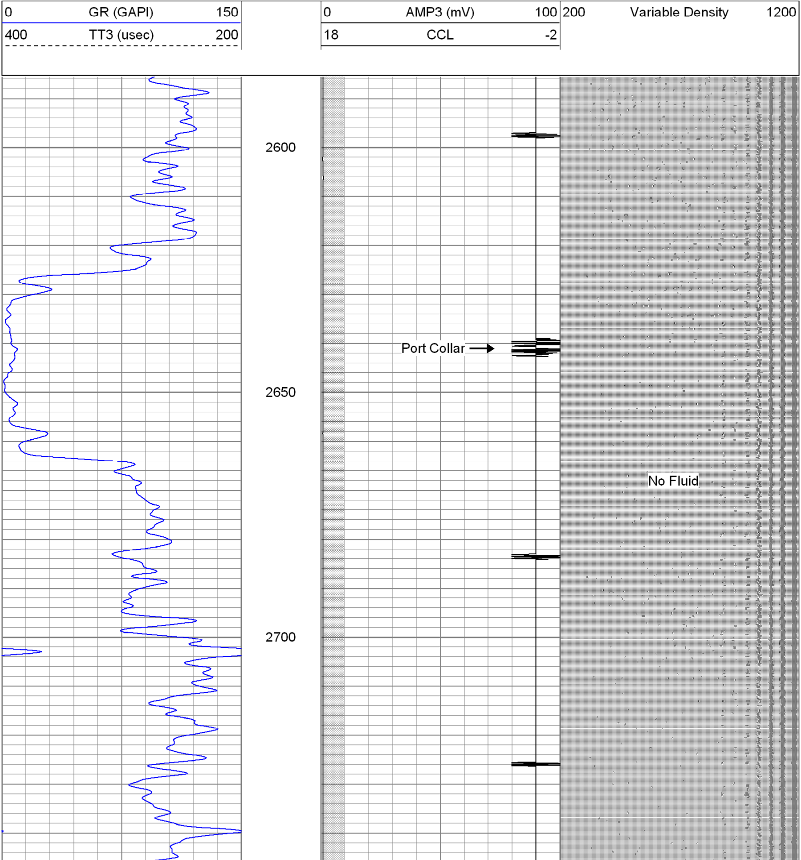
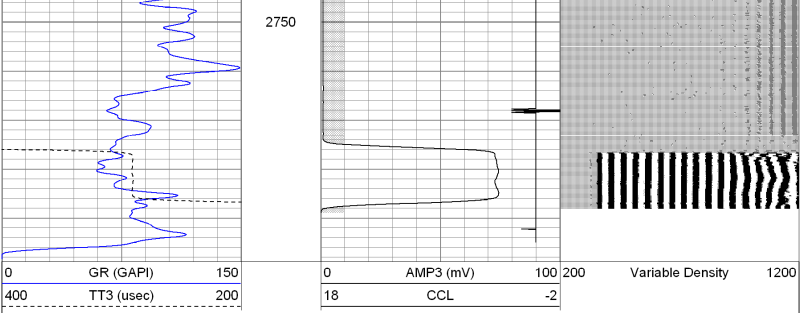
Port Collar

Database File: mdsat#1-14.db
Dataset Pathname: pass3
Presentation Format: cblrt
Dataset Creation: Tue Oct 16 10:41:16 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240





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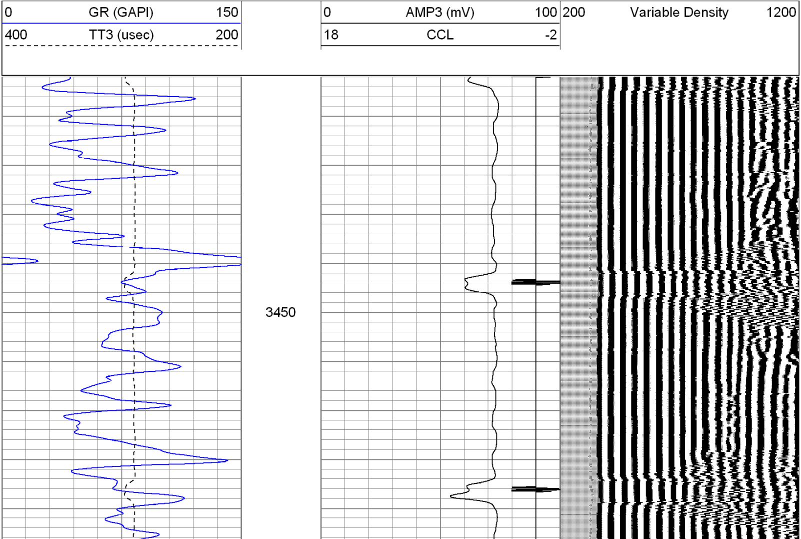
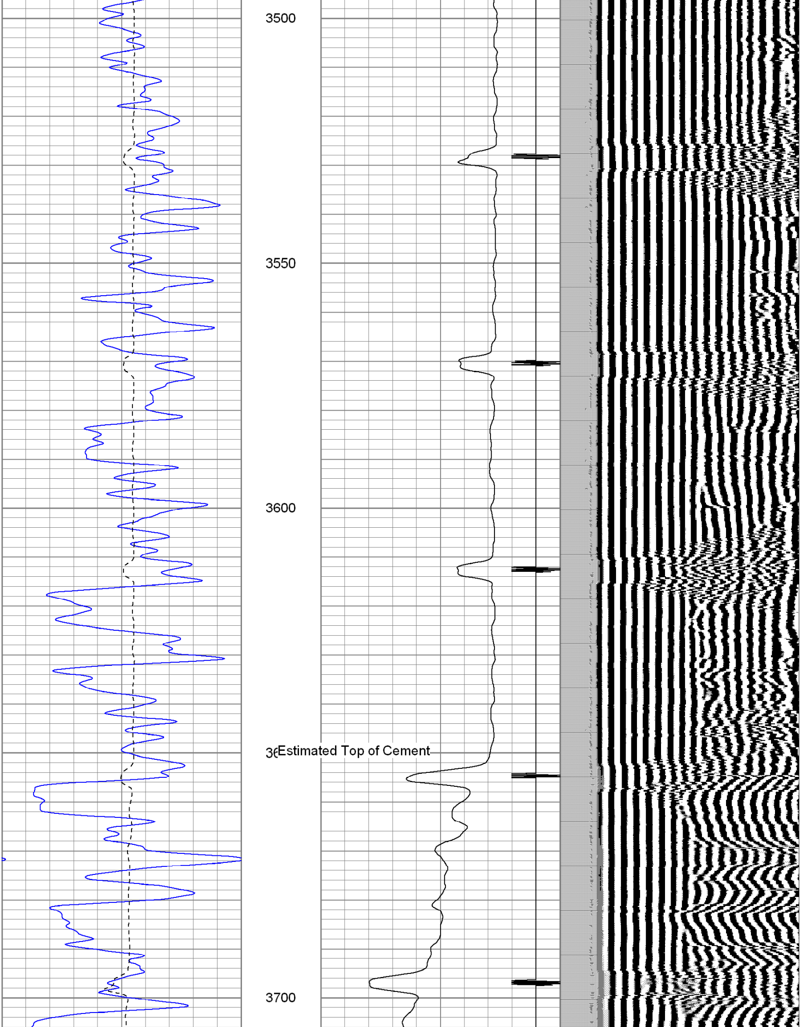
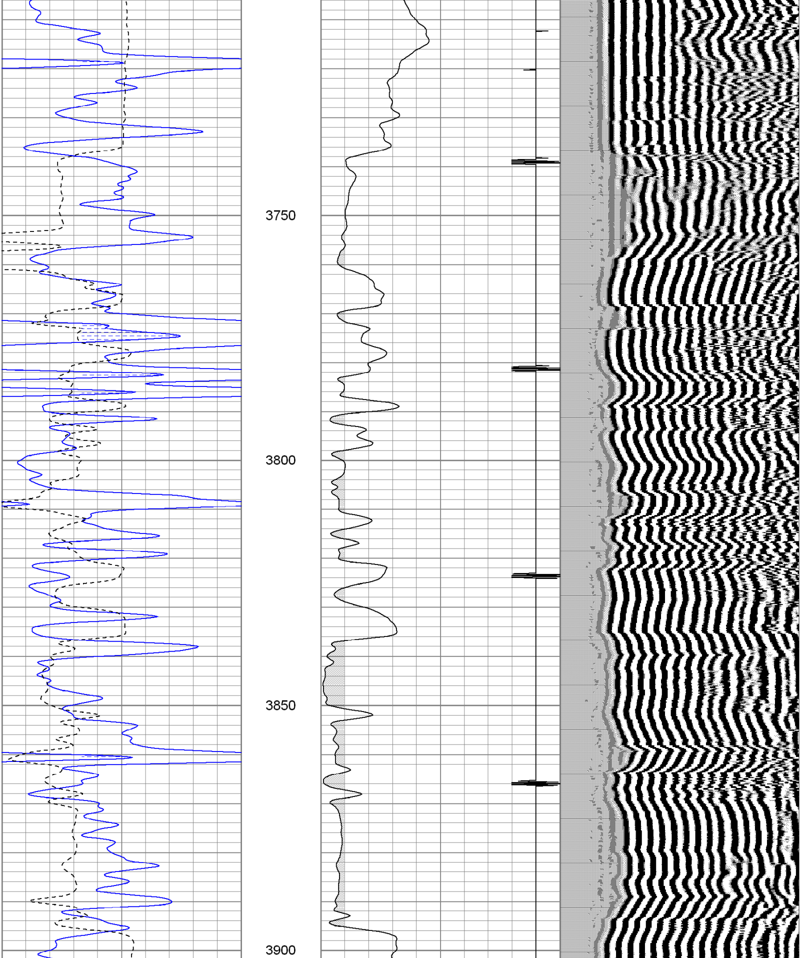
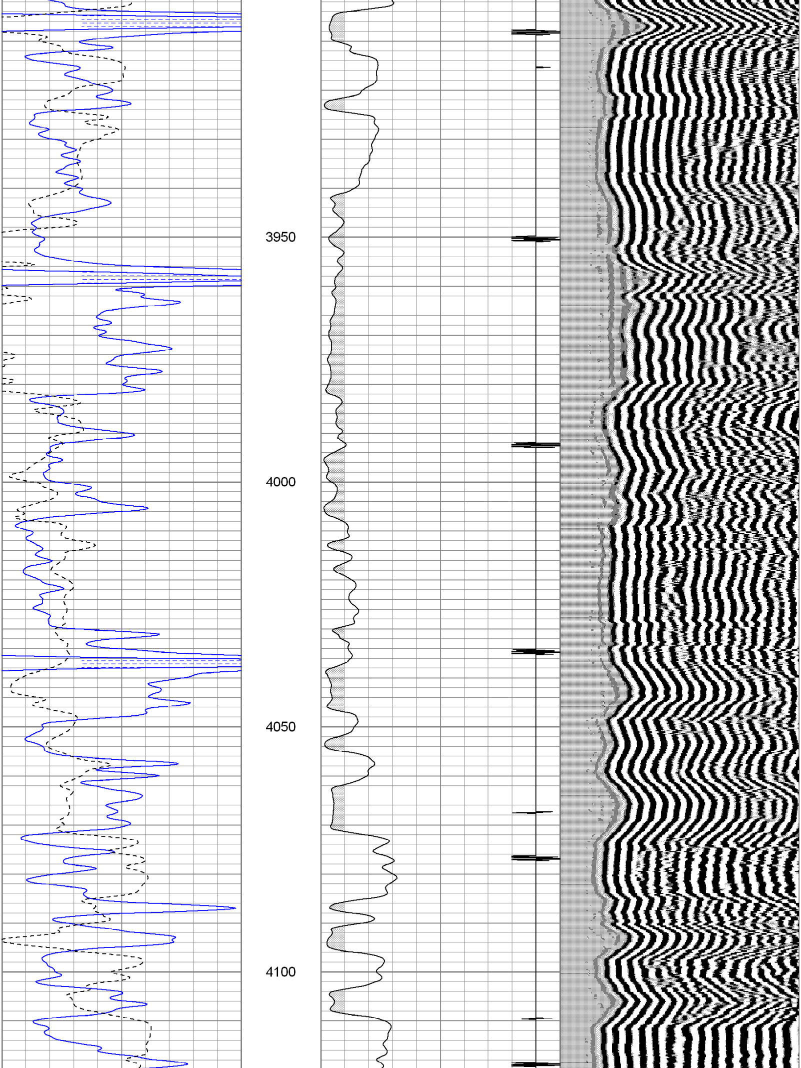
Main Pass

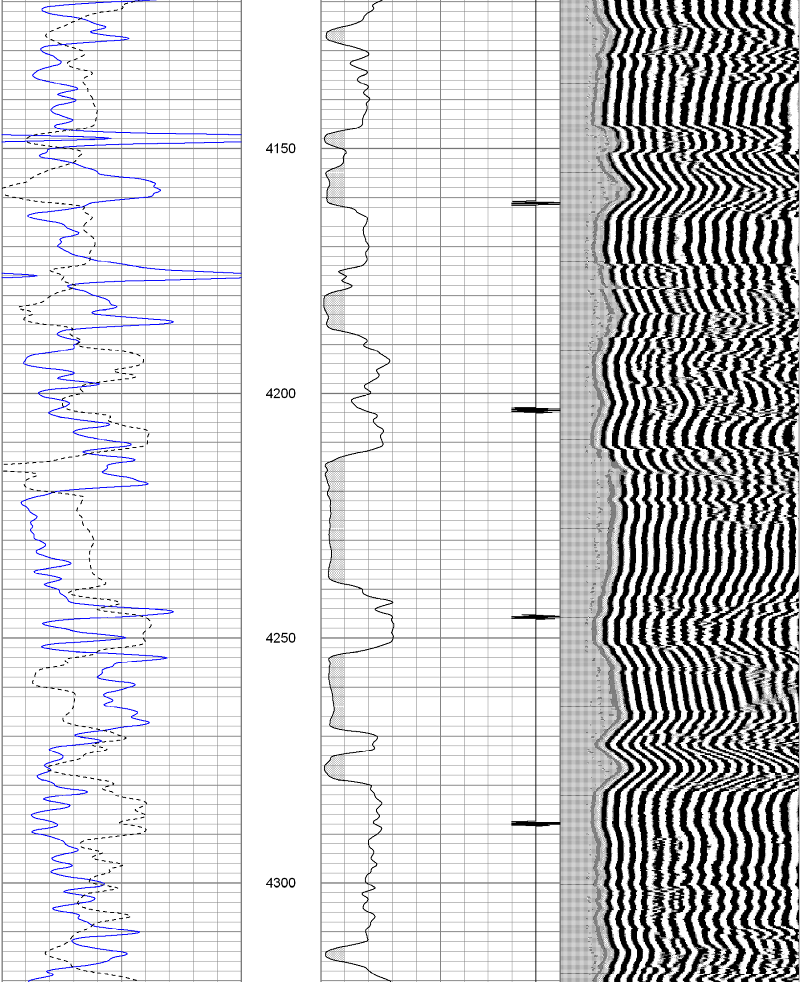
Database File:	mdsat#1-14.db
Dataset Pathname:	pass2
Presentation Format:	cblrt
Dataset Creation:	Tue Oct 16 10:07:12 2012 by Log Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

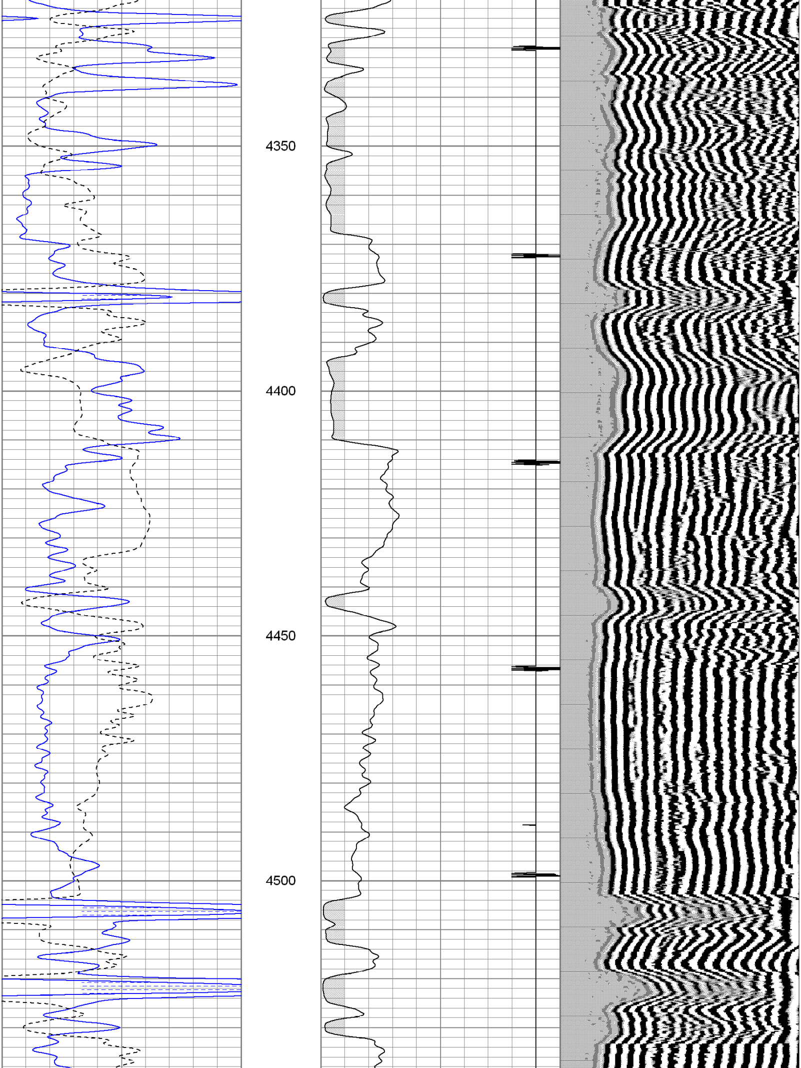


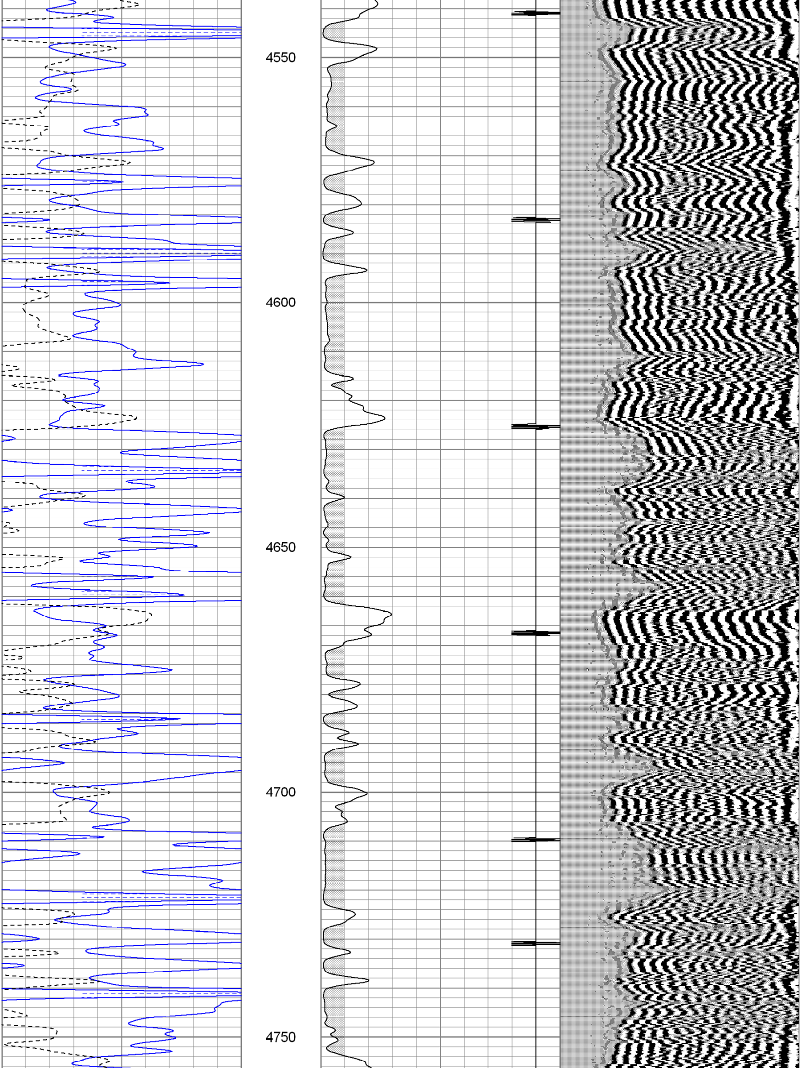


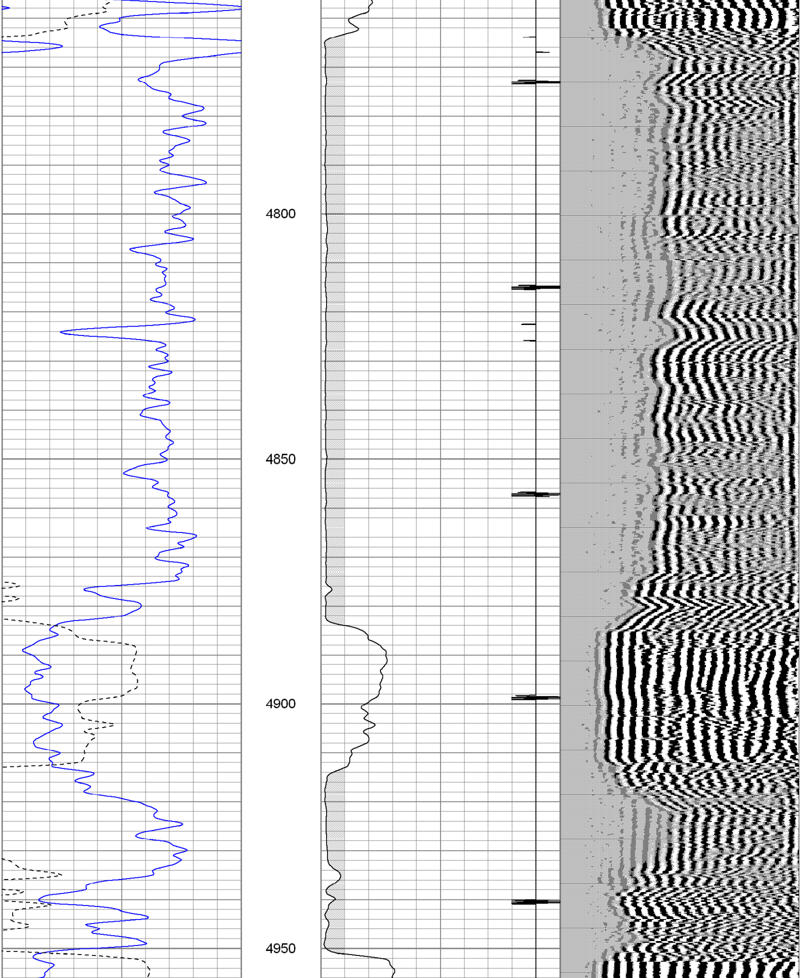


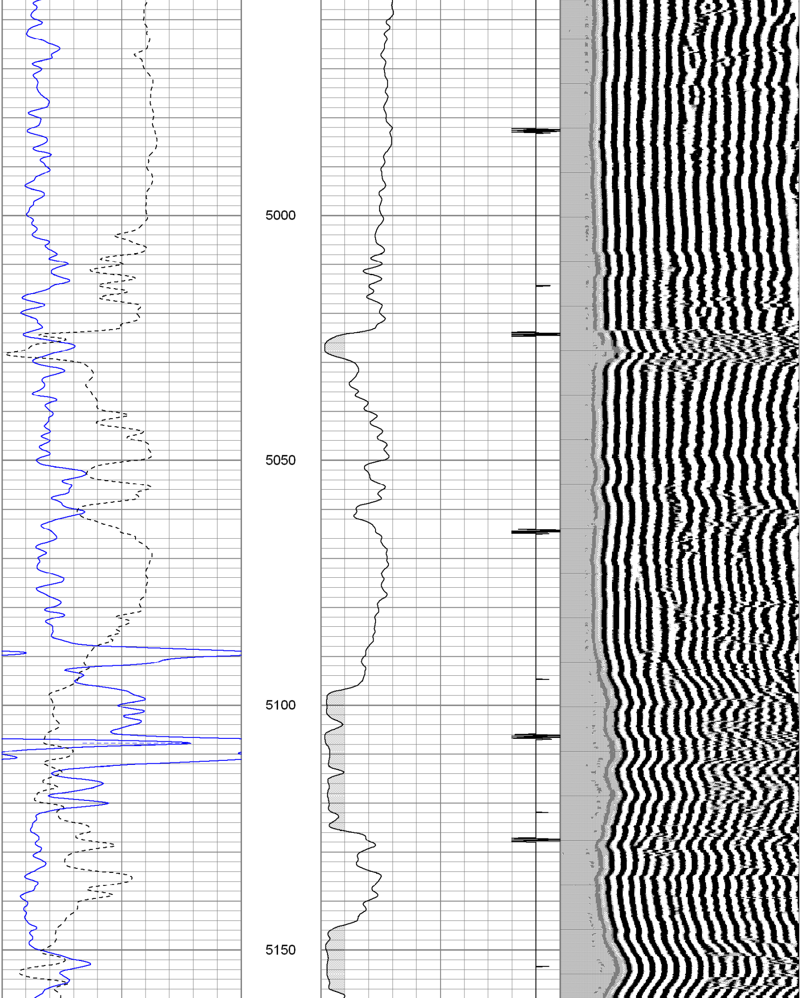


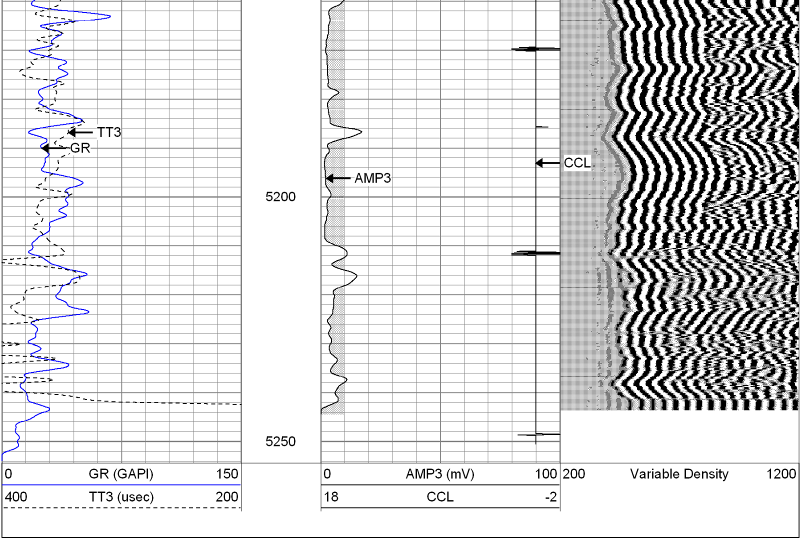












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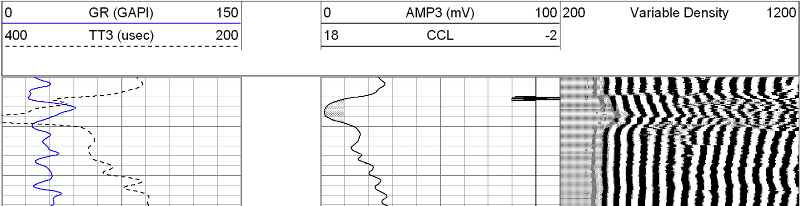
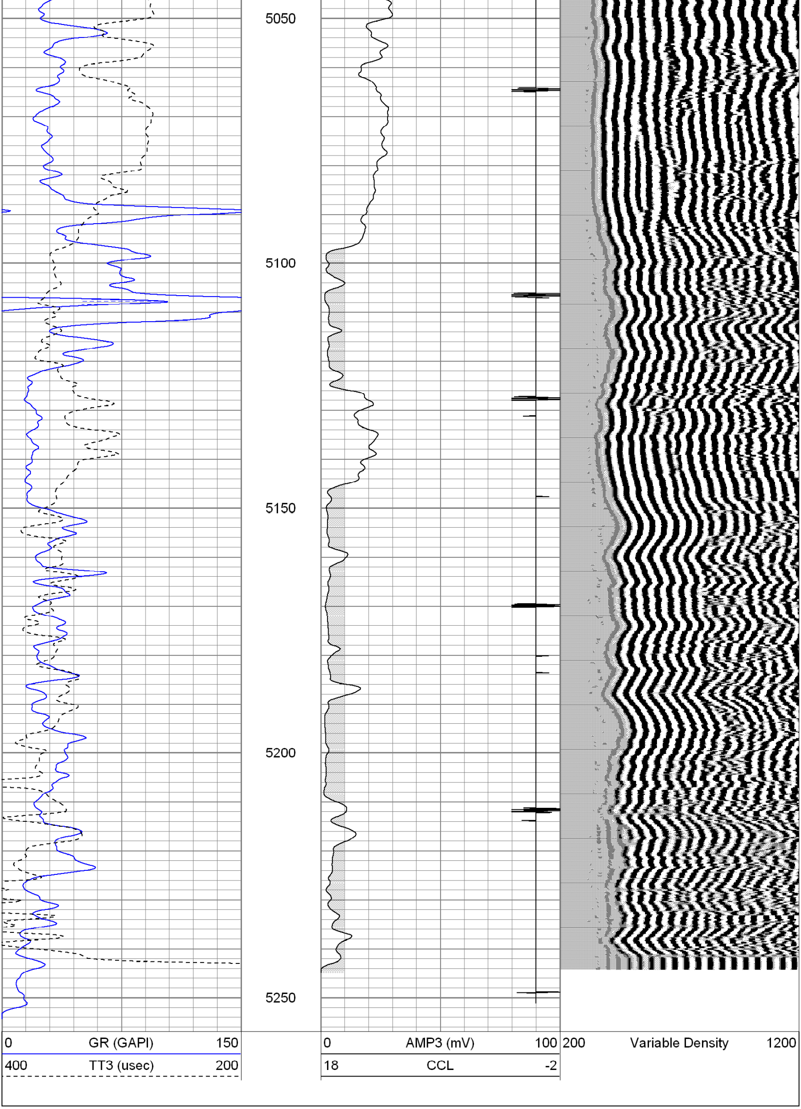
Repeat Pass

Database File: mdsat#1-14.db
Dataset Pathname: pass1
Presentation Format: cblrt
Dataset Creation: Tue Oct 16 09:59:59 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File:	mdsat#1-14.db
Dataset Pathname:	pass1
Dataset Creation:	Tue Oct 16 09:59:59 2012 by Log Open-Cased 100827

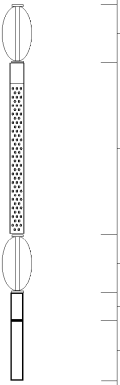
Gamma Ray Calibration Report

Serial Number:	80224	
Tool Model:	P1	
Performed:	Thu Sep 20 08:16:50 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	061007	
Tool Model:	PROBEDIGITALCBL	
Performed:	Tue Aug 28 20:33:26 2012	
Depth:	1800.21	ft
Casing Diameter:	5.5	in

	3' Spacing	5' Spacing	
Signal Zero:	1	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.0152588	0.0155273	V
Reading in Free Pipe:	1.43	1.34517	V
Gain:	50.13	54.0906	
Offset:	0.235076	-0.839884	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			X	3.00	1.69	25.00
WVF3 WVF5	11.75 10.75		CBLPROBE-PROBEDIGITALCBL (061007) PROBE DIGITAL CBL	8.75	2.75	106.50
			X	3.00	1.69	25.00
CCL	3.67		CCL-CCLProbe (80224)	1.42	2.75	20.00
GR	2.30		GR-P1 (80224) Probe 2.75 GR detector in top	3.08	2.75	30.00

Dataset:	mdsat#1-14.db: field/well/run1/pass1
Total Length:	19.25 ft
Total Weight:	206.50 lb
O.D.	2.75 in