The Perforators LLC

Cement Bond Log

Company	King Oil Operations
Well	Landauer #1
Field	Ellis
County	Ellis
State	KS

Company King Oil Operations
Well Landauer #1
Field Ellis
County Ellis State KS
Location: API # : 15-051-26872
620' FNL & 1775' FEL
SEC 30 TWP 13S RGE 20W

Other Services

Permanent Datum Ground Level Elevation 2217'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 2222'
D.F. 2221'
G.L. 2217'

Date	10-3-12
Run Number	One
Depth Driller	3943'
Depth Logger	3915'
Bottom Logged Interval	3914'
Top Log Interval	2400'
Open Hole Size	7 7/8"
Type Fluid	////
Density / Viscosity	////
Max. Recorded Temp.	////
Estimated Cement Top	2510'
Time Well Ready	Portable Mast
Time Logger on Bottom	1:30 PM
Equipment Number	T440
Location	Hays, KS
Recorded By	Casey Patterson
Witnessed By	

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				
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

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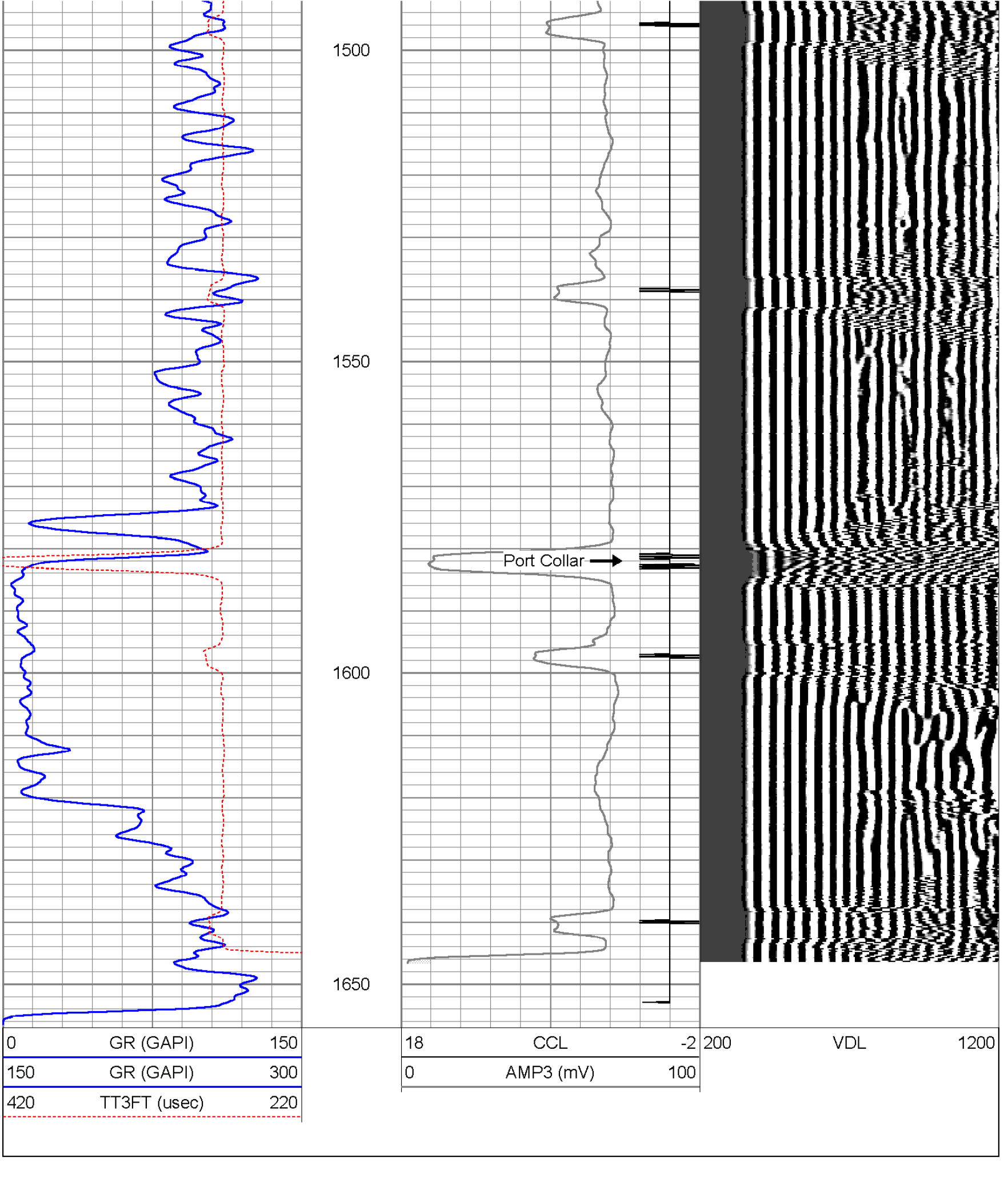
Port Collar

Database File: kolandauer#1cbl.db
Dataset Pathname: pass9
Presentation Format: cbl
Dataset Creation: Wed Oct 03 15:13:57 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240



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Main Pass

Database File: kolandauer#1cbl.db
Dataset Pathname: pass8
Presentation Format: cbl
Dataset Creation: Wed Oct 03 14:31:25 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

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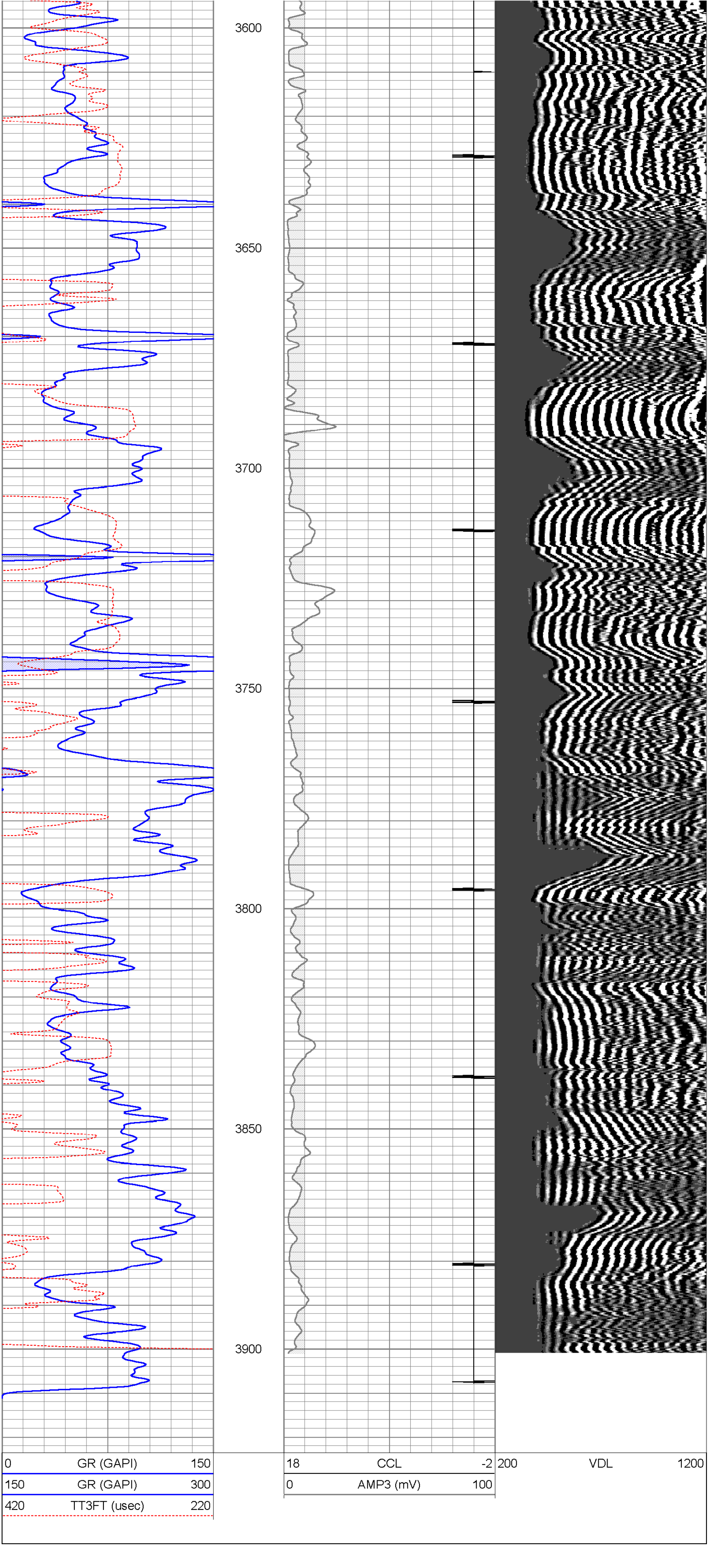
Repeat Section

Database File: kolandauer#1cbl.db
Dataset Pathname: pass7
Presentation Format: cbl
Dataset Creation: Wed Oct 03 14:20:57 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240



Calibration Report

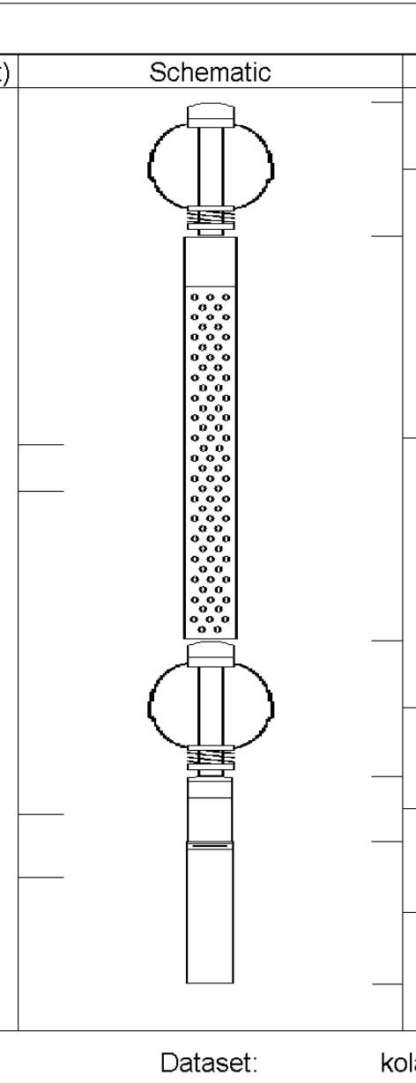
Database File: kolandauer#1cbl.db
Dataset Pathname: pass8
Dataset Creation: Wed Oct 03 14:31:25 2012 by Log Open-Cased 071220

Gamma Ray Calibration Report

Serial Number:	080224	
Tool Model:	Probe1	
Performed:	Thu Sep 27 07:34:48 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	15.0	cps
Calibrator Reading:	222.7	cps
Sensitivity:	0.9629	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	061007		
Tool Model:	DigitalCBL		
Performed:	Wed Oct 03 14:06:47 2012		
Depth:	328.171	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	2	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.00253906	-0.00246582	V
Reading in Free Pipe:	1.44897	1.39895	V
Gain:	48.1711	51.3202	
Offset:	2.12231	0.126546	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			275 2 3/4" Centralizer	2.94	2.75	10.00
WVF3 WVF5	11.69 10.69		Probedig-DigitalCBL (061007) 2 3/4 Bond Tool	8.77	2.75	92.00
			275 2 3/4" Centralizer	2.94	2.75	10.00
CCL	3.67		CCL-Probe (080224)	1.42	2.75	20.00
GR	2.30		GR-Probe1 (080224)	3.08	2.75	40.00

Dataset: kolandauer#1cbl.db: field/well/run1/pass8
Total Length: 19.14 ft
Total Weight: 172.00 lb
O.D.: 2.75 in