GEMINI WIRELINE

Cement Bond Log

Company	American Land And Energy LLC.
Well	Brungardt #1
Field	N/A
County	Ellis
State	Kansas

Company American Land And Energy LLC.
Well Brungardt #1
Field N/A
County Ellis State Kansas
Location: API # : 15 051 26588
330' FSL & 990' FEL
SEC 7 TWP 15S RGE 16W

Other Services

Permanent Datum	Ground Level	Elevation	1910'
Log Measured From	KB 6' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1916'
D.F. 1915'
G.L. 1910'

Date	9/4/13
Run Number	ONE
Depth Driller	3600'
Depth Logger	3567'
Bottom Logged Interval	3566'
Top Log Interval	3150'
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	///
Max. Recorded Temp.	///
Estimated Cement Top	2288'
Time Well Ready	Go Pole
Time Logger on Bottom	5:00 p.m
Equipment Number	T-747
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	8 5/8"	24#	0	1060'
Prot. String	5.5"	15.5	0	3567'
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.

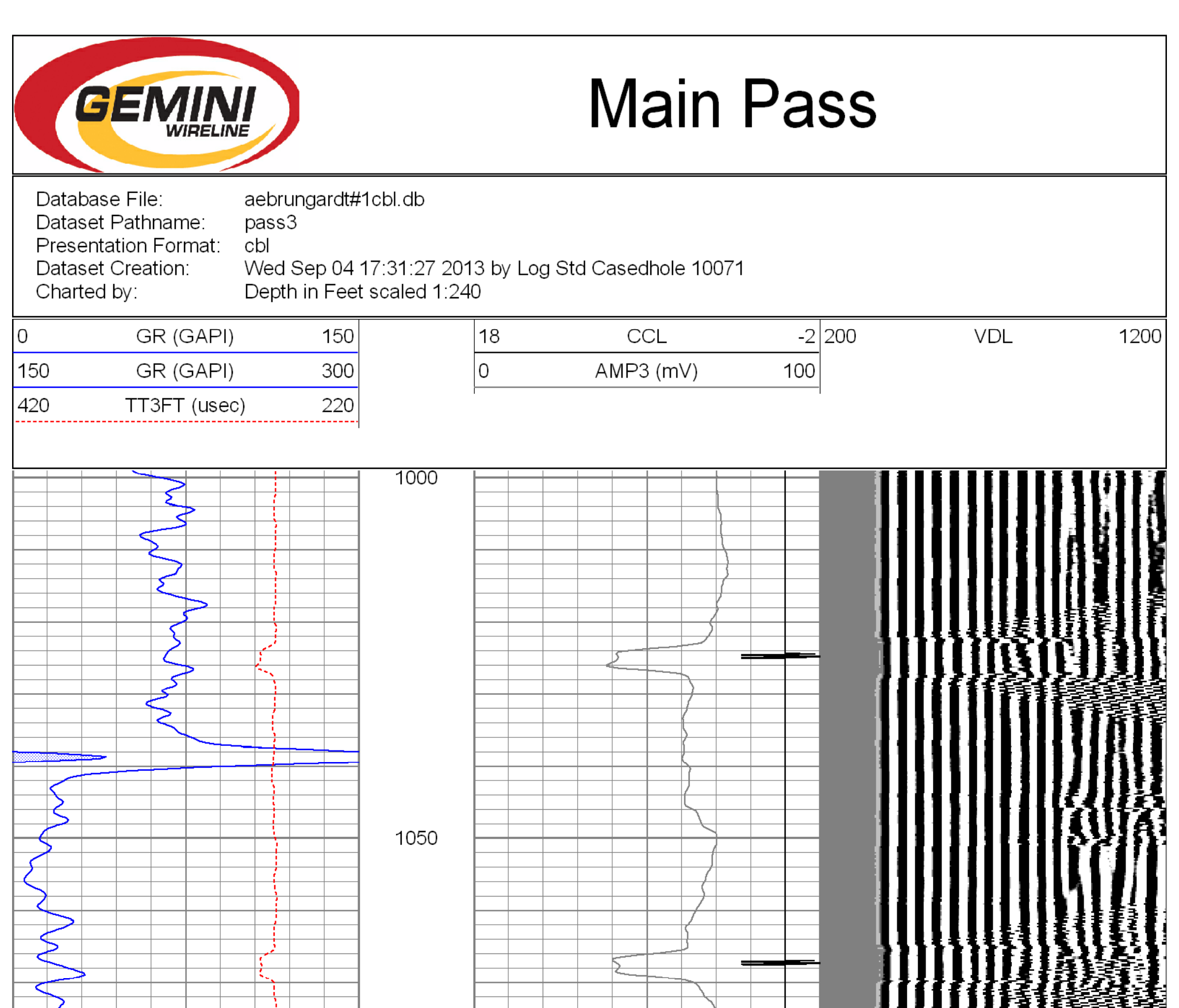
Comments

6 miles S Victoria to Norfolk Rd 1/2 E N into

GEMINI WIRELINE

Main Pass

Database File: aebrungardt#1cbl.db
Dataset Pathname: pass3
Presentation Format: cbl
Dataset Creation: Wed Sep 04 17:31:27 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240



GEMINI WIRELINE

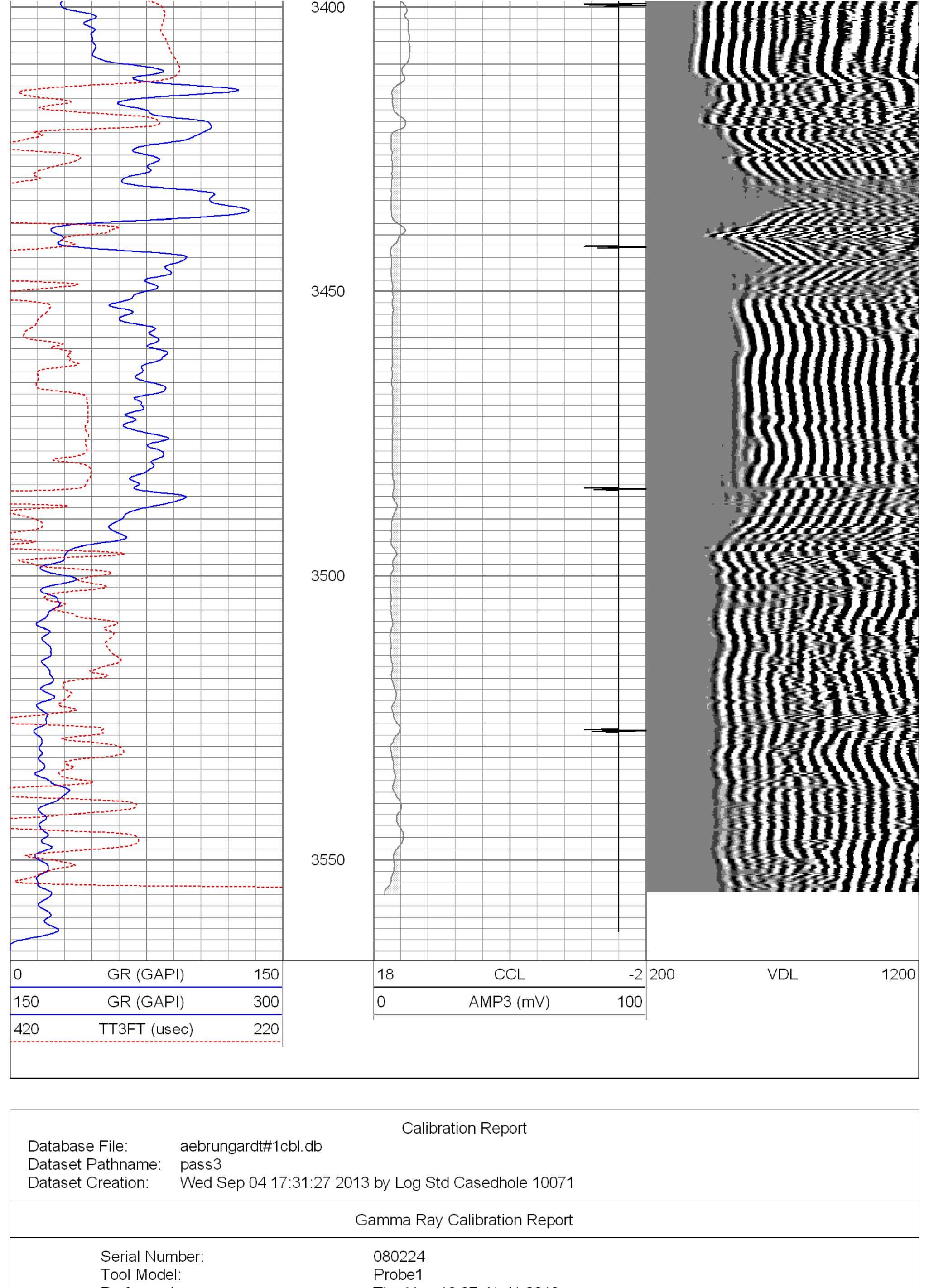
Main Pass

Database File: aebrungardt#1cbl.db
Dataset Pathname: pass2
Presentation Format: cbl
Dataset Creation: Wed Sep 04 17:01:34 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

GEMINI WIRELINE

Repeat Pass

Database File: aebrungardt#1cbl.db
Dataset Pathname: pass1
Presentation Format: cbl
Dataset Creation: Wed Sep 04 16:54:21 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240



Calibration Report

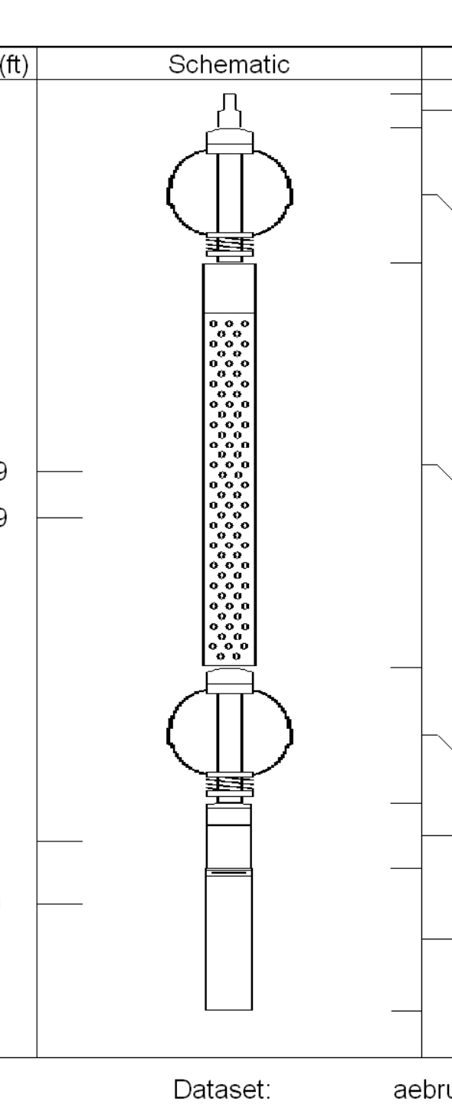
Database File: aebrungardt#1cbl.db
Dataset Pathname: pass3
Dataset Creation: Wed Sep 04 17:31:27 2013 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	080224	
Tool Model:	Probe1	
Performed:	Thu May 16 07:41:41 2013	
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:	080201		
Tool Model:	DigitalCBL		
Performed:	Wed Sep 04 16:52:09 2013		
Depth:	2538.66	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	3	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.0157715	0.0158691	V
Reading in Free Pipe:	0.91	0.823755	V
Gain:	74.4471	89.0237	
Offset:	4.17414	-1.41273	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			sdschd	0.75	1.44	3.00
			275 2 3/4" Centralizer	2.94	2.75	10.00
WVF3 WVF5	11.69 10.69		Probedig-DigitalCBL (080201) 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: aebrungardt#1cbl.db: field/well/run1/pass3
Total Length: 19.89 ft
Total Weight: 175.00 lb
O.D. 2.75 in