The Perforators LLC

CEMENT BOND LOG

Company	American Land And Energy LLC
Well	Werth/Gerstner#1
Field	Gerstner
County	Ellis
State	KS

Location: API # : 15 051 26412
1325 FSL & 1110 FWL
SEC 24 TWP 14S RGE 17W

Other Services

Permanent Datum	Ground Level	Elevation	1942'
Log Measured From	K.B 6' AGL		
Drilling Measured From	K.B		

Elevation
K.B. 1948
D.F. 1947
G.L. 1942

Date	12-3-12
Run Number	One
Depth Driller	3551'
Depth Logger	3526'
Bottom Logged Interval	3524'
Top Log Interval	2870'
Open Hole Size	7 7/8"
Type Fluid	///
Density / Viscosity	///
Max. Recorded Temp.	///
Estimated Cement Top	3048'
Time Well Ready	Mast
Time Logger on Bottom	3:45 P.M
Equipment Number	T-440
Location	Hays
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"			1100
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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Main Pass

Database File: werthgerstner#1cbl.db
Dataset Pathname: pass3
Presentation Format: cblsec
Dataset Creation: Mon Dec 03 16:00:01 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

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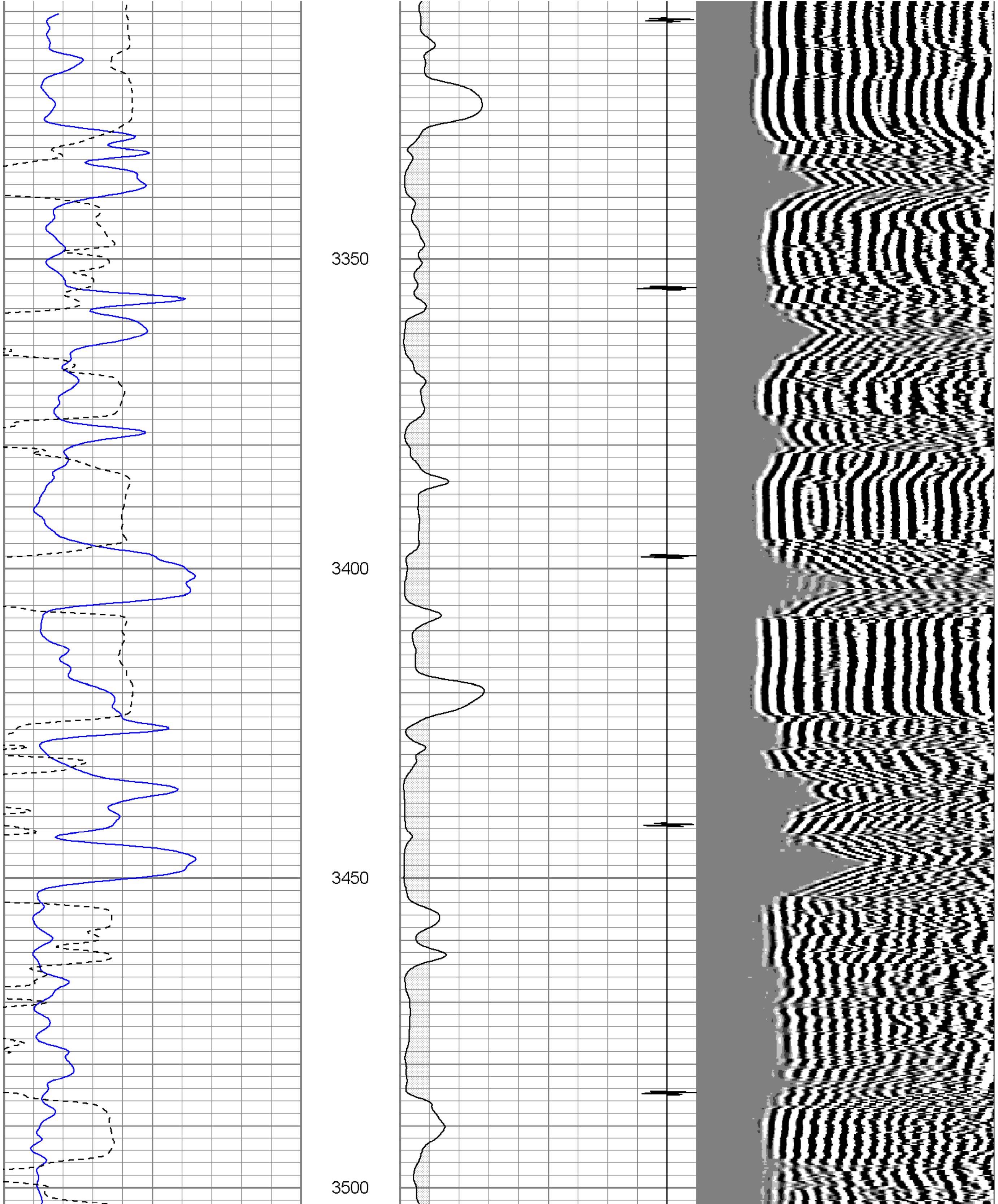
Repeat Pass

Database File: werthgerstner#1cbl.db
Dataset Pathname: pass2
Presentation Format: cblsec
Dataset Creation: Mon Dec 03 15:52:13 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: werthgerstner#1cbl.db
Dataset Pathname: pass2
Dataset Creation: Mon Dec 03 15:52:13 2012 by Log Open-Cased 071220

Gamma Ray Calibration Report

Serial Number:	081014	
Tool Model:	275D_INC	
Performed:	Thu Sep 27 07:33:42 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Inclinometer Calibration Report

Performed: Thu Sep 27 07:33:35 2012

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3589.40	3580.00	-1.00	1.00	gee
Y Accelerometer	-3673.00	3502.20	-1.00	1.00	gee
Z Accelerometer					

Segmented Cement Bond Log Calibration Report

Serial Number:	080321	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	705.138	ft

Master Calibration, performed Wed Nov 07 13:51:03 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.390	1.000	71.921	51.110	0.878
CAL	0.002	1.332				
5'	0.002	1.241	1.000	71.921	57.247	0.860
SUM						
S1	0.002	1.128	0.000	72.000	63.968	-0.155
S2	0.002	1.124	0.000	72.000	64.189	-0.156
S3	0.001	1.283	0.000	72.000	56.168	-0.081
S4	0.002	1.437	0.000	72.000	50.188	-0.111
S5	0.003	1.482	0.000	72.000	48.675	-0.133
S6	0.002	1.389	0.000	72.000	51.944	-0.127
S7	0.002	1.323	0.000	72.000	54.529	-0.132
S8	0.002	1.204	0.000	72.000	59.945	-0.146

Internal Reference Calibration, performed Thu Dec 04 16:30:55 2008:

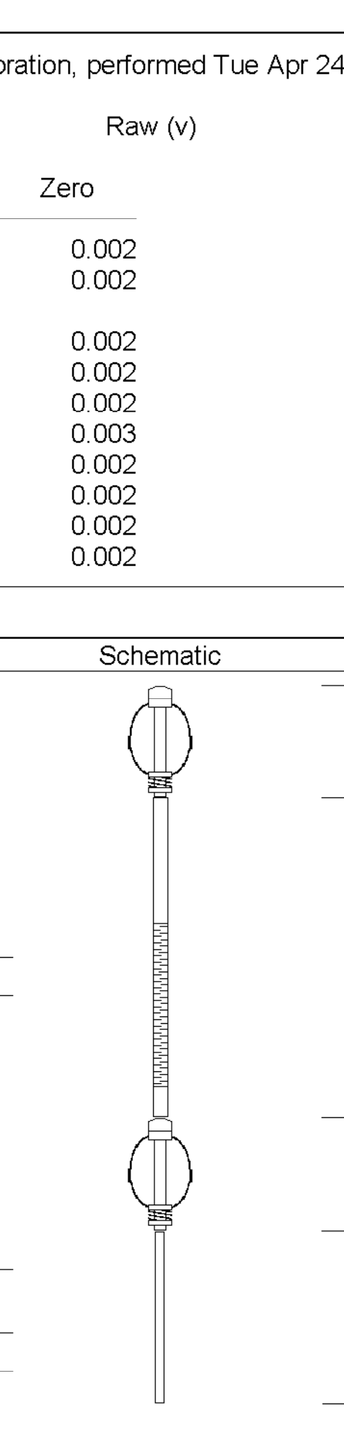
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	1.332	1.000	0.000

Air Zero Calibration, performed Tue Apr 24 10:12:12 2012:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.002	0.000	-0.000
5'	0.002	0.000	0.000
SUM			
S1	0.002	0.000	0.000
S2	0.002	0.000	0.000
S3	0.002	0.000	-0.001
S4	0.003	0.000	-0.000
S5	0.002	0.000	0.000
S6	0.002	0.000	0.000
S7	0.002	0.000	0.000
S8	0.002	0.000	0.000

Sensor	Offset (ft)
WVF3FT	11.63
WVFCAL	11.63
WVFS1	11.63
WVFS2	11.63
WVFS3	11.63
WVFS4	11.63
WVFS5	11.63
WVFS6	11.63
WVFS7	11.63
WVFS8	11.63
WVF5FT	10.63
CCL	3.50
ACCX	1.83
ACCY	1.83
ACCZ	1.83
GR	0.83

Schematic



Description	Len (ft)	OD (in)	Wt (lb)
275 2 3/4" Centralizer	2.94	2.75	10.00
RBT-Probe (080321) Prototype Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
275 2 3/4" Centralizer	2.94	2.75	10.00
GR-275D_INC (081014) 2-3/4" GR-CCL with Inclination	4.50	2.75	

Dataset: werthgerstner#1cbl.db: field/well/run1/pass3
Total Length: 18.71 ft
Total Weight: 110.00 lb
O.D.: 2.75 in