GEMINI WIRELINE

CEMENT BOND LOG

Company	Pioneer Natural Resources
Well	Weirich 32-33
Field	Black Fox
County	Kiowa
State	CO

Company Pioneer Natural Resources
Well Weirich 32-33
Field Black Fox
County Kiowa State CO

Location: API # : 05-061-06876-0000
2486' FNL & 1692' FEL
SEC 33 TWP 20S RGE 15W

Other Services

Permanent Datum Ground Level Elevation 4268'
Log Measured From KB 12' AGL
Drilling Measured From KB

Elevation
K.B. 4280'
D.F.
G.L. 4268'

Date	3-12-13
Run Number	One
Depth Driller	5503'
Depth Logger	5494'
Bottom Logged Interval	5492'
Top Log Interval	Surface
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	////
Max. Recorded Temp.	////
Estimated Cement Top	4500'
Time Well Ready	ROA
Time Logger on Bottom	8:00 a.m.
Equipment Number	T045
Location	Hays, KS.
Recorded By	Gus Pfanenstiel
Witnessed By	Ramon Gonzales

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	1579
Prot. String				
Production String	5 1/2"		00	?
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 Gemini Wireline
Hays, KS (785) 625-1182

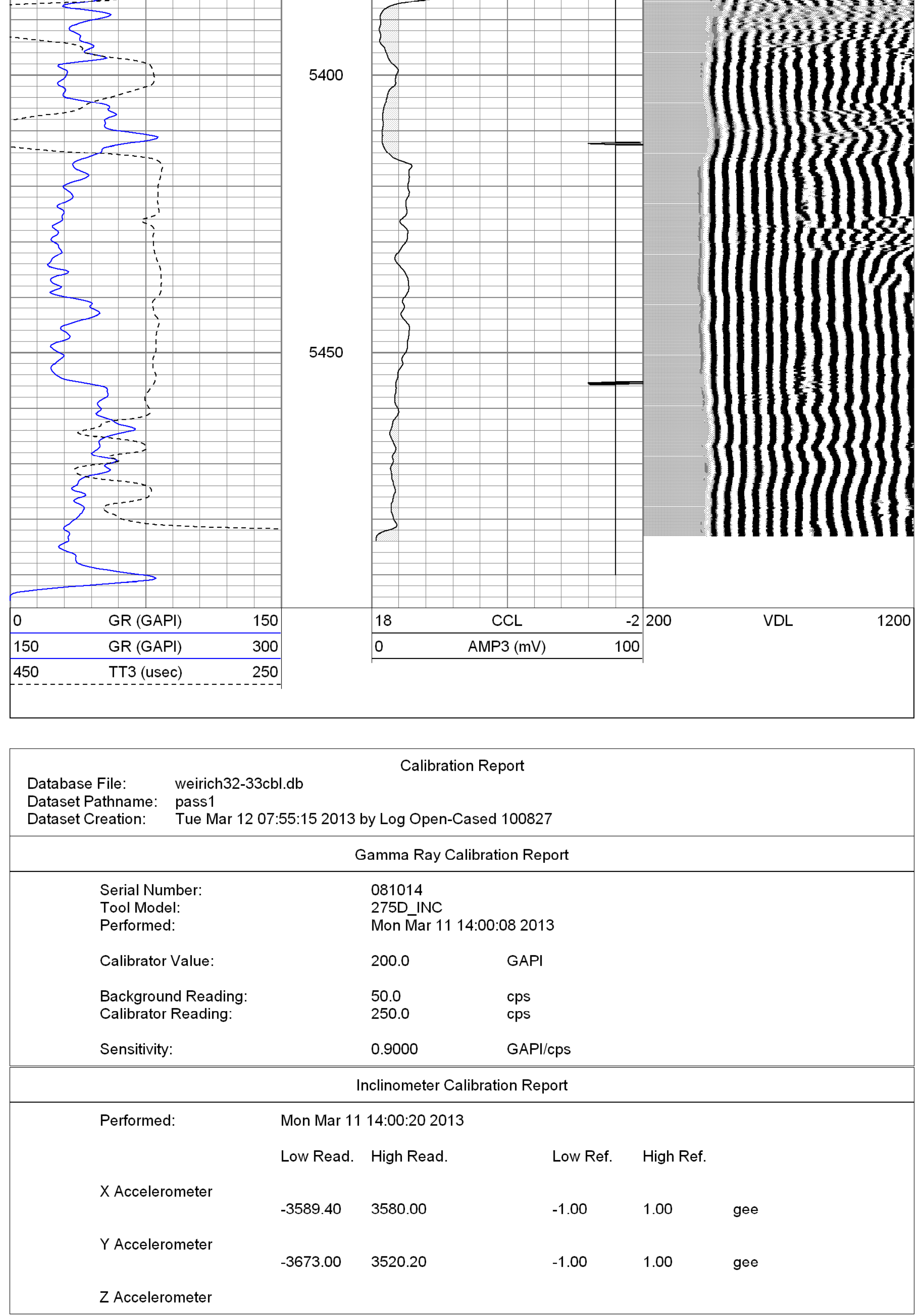
GEMINI WIRELINE

Main Pass

Database File: weirich32-33cbl.db
Dataset Pathname: pass2
Presentation Format: cblsec
Dataset Creation: Tue Mar 12 08:11:12 2013 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

Repeat Pass

Database File: weirich32-33cbl.db
Dataset Pathname: pass1
Presentation Format: cblsec
Dataset Creation: Tue Mar 12 07:55:15 2013 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: weirich32-33cbl.db
Dataset Pathname: pass1
Dataset Creation: Tue Mar 12 07:55:15 2013 by Log Open-Cased 100827

Gamma Ray Calibration Report

Serial Number:	081014	
Tool Model:	275D_INC	
Performed:	Mon Mar 11 14:00:08 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	50.0	cps
Calibrator Reading:	250.0	cps
Sensitivity:	0.9000	GAPI/cps

Inclinometer Calibration Report

Performed: Mon Mar 11 14:00:20 2013

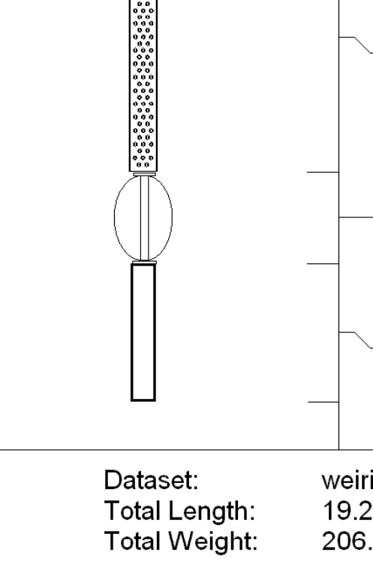
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3589.40	3580.00	-1.00	1.00	gee
Y Accelerometer	-3673.00	3520.20	-1.00	1.00	gee
Z Accelerometer					

Segmented Cement Bond Log Calibration Report

Serial Number:	080321	
Tool Model:	ProbeRadial	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	3578.012	ft

Master Calibration, performed Mon Mar 11 14:00:33 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	1.059	1.000	71.921	66.178	1.806
CAL	-0.013	1.043				
5'	-0.013	1.119	1.000	71.921	62.697	1.786
SUM						
S1	-0.012	1.056	0.000	72.000	67.443	0.781
S2	-0.012	1.063	0.000	72.000	66.958	0.821
S3	-0.012	1.064	0.000	72.000	66.937	0.797
S4	-0.012	1.051	0.000	72.000	67.776	0.789
S5	-0.012	1.054	0.000	72.000	67.532	0.815
S6	-0.012	1.047	0.000	72.000	67.976	0.847
S7	-0.012	1.037	0.000	72.000	68.607	0.856
S8	-0.012	1.037	0.000	72.000	68.616	0.840

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF3FT	11.75		X	3.00	1.69	25.00
WVFS1	11.75		SCBL-ProbeRadial (080321) Probe 2 3/4 RadII	8.75	2.75	106.50
WVFS2	11.75		X	3.00	1.69	25.00
WVFS3	11.75		GR-275D_INC (081014) 2-3/4" GR-CCL with Inclination	4.50	2.75	50.00
WVFS4	11.75					
WVFS5	11.75					
WVFS6	11.75					
WVFS7	11.75					
WVFS8	11.75					
WVF5FT	10.75					
WVFCAL	7.50					
CCL	3.50					
ACCX	1.83					
ACCY	1.83					
ACCZ	1.83					
GR	0.83					

Dataset: weirich32-33cbl.db: field/well/run1/pass1
Total Length: 19.25 ft
Total Weight: 206.50 lb
O.D. 2.75 in