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V.D.L. C.C.L. GAMMA RAY CEMENT BOND LOG

Company	Bonanza Creek Energy
Well	State Pronghorn X-D-29 HNC
Field	Wattenberg
County	Weld
State	Colorado

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Well State Pronghorn X-D-29 HNC
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-40062
SHL: 1240' FSL x 230' FEL
SEC 29 TWP 5N RGE 61W

Other Services
None

Permanent Datum	GL	Elevation 4601'	Elevation
Log Measured From	KB		K.B. 4618'
Drilling Measured From	KB 17'		D.F. 4617' G.L. 4601'

Date	27-Feb-2015
Run Number	One
Depth Driller	NA
Depth Logger	6275'
Bottom Logged Interval	6263'
Top Log Interval	Surface
Open Hole Size	NA
Type Fluid	Fresh Water
Density / Viscosity	8.34 LBG
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	12:30
Time Logger on Bottom	16:20
Equipment Number	1
Location	Fort Morgan
Recorded By	Randy Azevedo
Witnessed By	NA

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36#	Surface	781'
Prot. String				
Production String	7"	26#	Surface	6504'
Liner				

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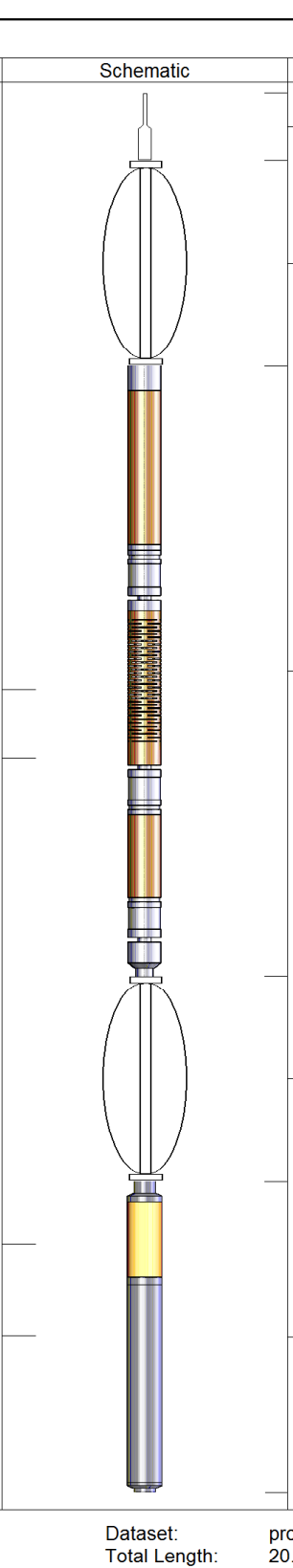
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Log Ran as Per Customer Request.
Depth Reference to pipe tally Liner top At 6238'
Log Ran from As deep as possible to surface
Log Ran with 0 PSI surface Induced Pressure.
Liner Top Reported 6238'
Kick Out Point 5600'.
Limited Header Info on Location

Thank you for Choosing Pioneer Energy Services Inc.
SO# 2-310041

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3 WVF5	11.73 10.73		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
			SDSCENT Centralizer for testing	3.00	3.25	20.00
CCL GR	3.63 2.30		GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00

Dataset: pronghorn 29 cbl.db: field/well/run2/pass3
Total Length: 20.46 ft
Total Weight: 210.00 lb
O.D. 3.25 in

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7" Main Pass

Log Ran with 0 PSI surface induced Pressure.

Database File:	pronghorn 29 cbl.db
Dataset Pathname:	run2/pass3
Presentation Format:	cbl_dr
Dataset Creation:	Fri Feb 27 16:21:17 2015 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

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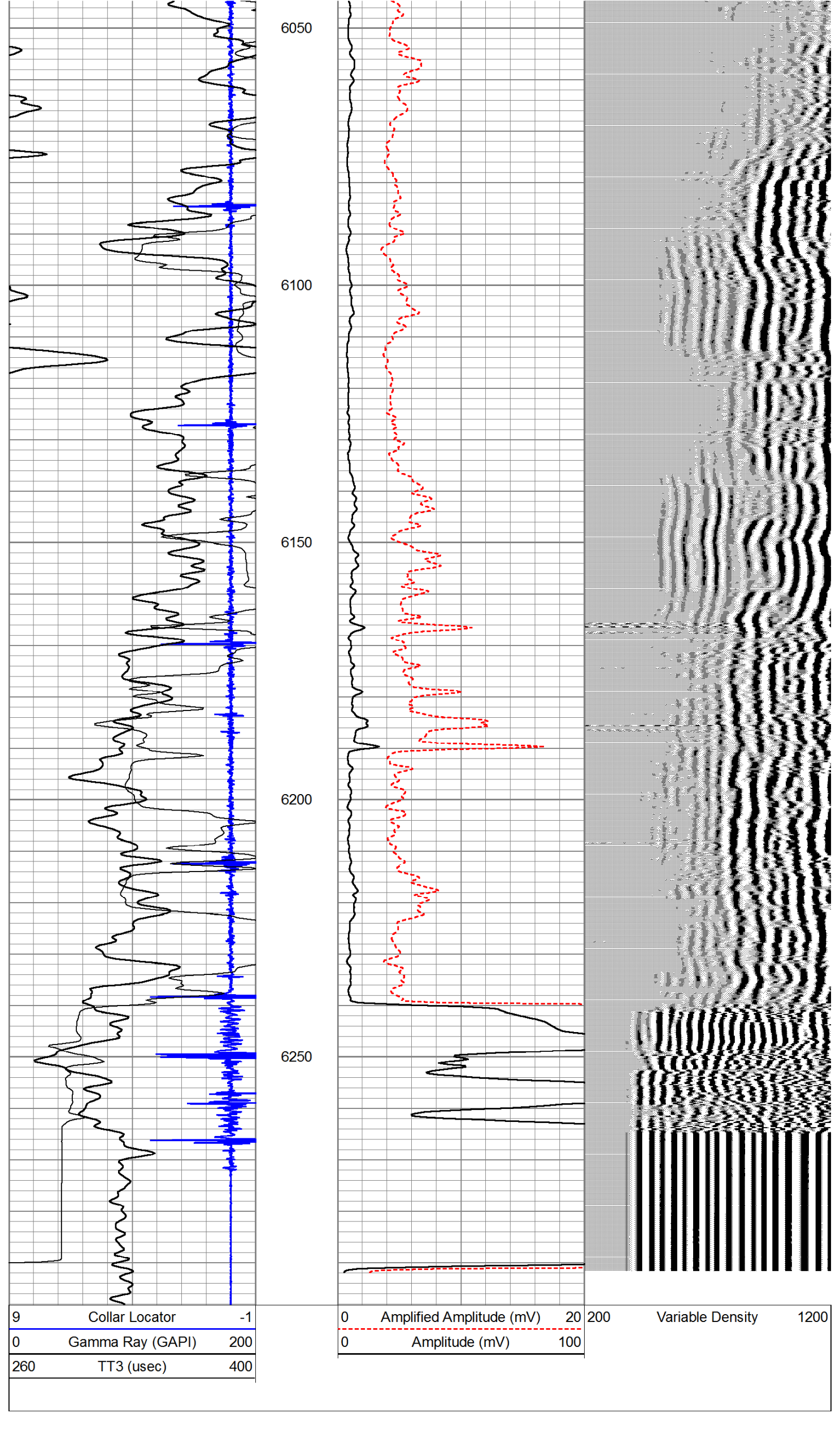
7" Repeat Section

Log Ran with 0 PSI surface induced Pressure.

Database File:	pronghorn 29 cbl.db
Dataset Pathname:	run2/pass2
Presentation Format:	cbl_dr
Dataset Creation:	Fri Feb 27 16:14:46 2015 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	pronghorn 29 cbl.db
Dataset Pathname:	run2/pass3
Dataset Creation:	Fri Feb 27 16:21:17 2015 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	110249	
Tool Model:	Probe	
Performed:	Thu Dec 04 11:34:32 2014	
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:	050215		
Tool Model:	Probe		
Performed:	Fri Feb 27 14:41:03 2015		
Depth:	421.367	ft	
Casing Diameter:	7	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	-0.0407227	-0.0140381	V
Reading in Free Pipe:	0.943188	0.942261	V
Gain:	63.1816	65.0059	
Offset:	2.57293	0.91256	

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