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Pioneer Energy Services

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

Company	Bonanza Creek Energy
Well	State Pronghorn 44-14-29HNB
Field	Wattenberg
County	Weld
State	Colorado

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Well State Pronghorn 44-14-29HNB
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-40061
SHL: 1240' FSL x 250' FEL
SEC 29 TWP 5N RGE 61W

Other Services
None

Permanent Datum	GL	Elevation	4601'
Log Measured From	KB	17'	
Drilling Measured From	KB		

Elevation
K.B. 4618'
D.F. 4617'
G.L. 4601'

Date	27-Feb-2015
Run Number	One
Depth Driller	NA
Depth Logger	6202'
Bottom Logged Interval	6190'
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	14:40
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	6420'
Liner				

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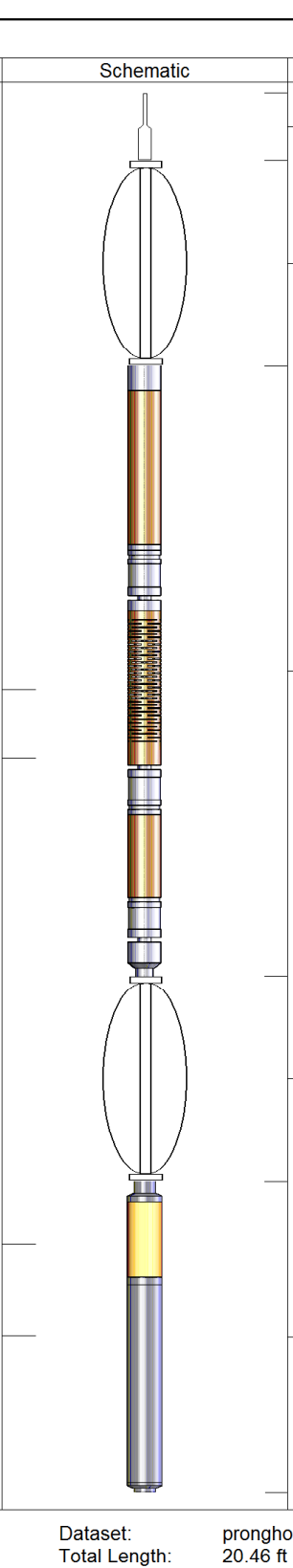
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 17' Kelly Bushing
Log Ran from Liner top to Surface.
Log Ran with 0 PSI surface Induced Pressure.
Liner Top Reported 6232'
Kick Out Point 5565'.
Could Not Enter Liner top due to Liner top Being at 70 +/- Degree.
Limited Header Info on Location

Thank you for Choosing Pioneer Energy Services Inc.
SO# 2-310040



Sensor	Offset (ft)	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 44-14-29 hnb cbl.db: field/well/run1/pass2
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 44-14-29 hnb cbl.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Fri Feb 27 14:43:09 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1		0 Amplified Amplitude (mV) 20	200 Variable Density 1200
0 Gamma Ray (GAPI) 200		0 Amplitude (mV) 100	

Calibration Report

Database File: pronghorn 44-14-29 hnb cbl.db
Dataset Pathname: pass2
Dataset Creation: Fri Feb 27 14:43:09 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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