BASIN WELL LOGGING
PERFORATING - WIRELINE SERVICES

Radii Cement Bond Log W/Gamma Ray, VDL & Casing Collars

Company	Catamount Energy Partners
Well	Lamke 33-5-29 #1
Field	Fruitland Coal
County	Archuletaa
State	Colorado

Company Catamount Energy Partners
Well Lamke 33-5-29 #1
Field Fruitland Coal
County Archuletaa State Colorado

Location: API # : 05-007-06322
530' FSL & 199' FEL
SEC 29 TWP 33N RGE 05W

Other Services

Permanent Datum	Ground Level	Elevation	6119'
Log Measured From	RKB 11'		
Drilling Measured From	Rig Kelly Bushing		

Elevation
K.B. 6130'
D.F. 6129'
G.L. 6119'

Date	May 2 2016
Run Number	One
Depth Driller	2946'
Depth Logger	2943'
Bottom Logged Interval	100'
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	N/A
Time Well Ready	15:30
Time Logger on Bottom	15:45
Equipment Number	119
Location	FARMINGTON
Recorded By	P. Baker
Witnessed By	Mr.Reed Fischer

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
One	12.250"	Surface	399'				
Two	7.875"	399'	3430'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24#	Surface	389'
Prot. String				
Production String	5 1/2"	17#	Surface	3374'
Liner				

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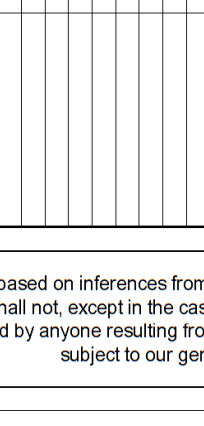
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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



Sensor	Offset (ft)
WVF3FT	11.67
WVFCAL	11.67
WVFS1	11.67
WVFS2	11.67
WVFS3	11.67
WVFS4	11.67
WVFS5	11.67
WVFS6	11.67
WVFS7	11.67
WVFS8	11.67
WVF5FT	10.58
CCL	6.58
GR	3.73

Description	Len (ft)	OD (in)	Wt (lb)
PTS275	2.83	2.75	
RBT-Probe (1309-51) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
GR275detector-Probe275Gr (1307-58) Probe 2.75" Dectector on Bottom	4.50	2.75	30.00
PTS275	2.83	2.75	

Dataset: catamountlamke335291rcbl .db: field/well/run1/pass39.3
Total Length: 19.08 ft
Total Weight: 120.00 lb
O.D. 2.75 in

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Main Pass 1000psi

Database File:	catamountlamke335291rcbl .db
Dataset Pathname:	pass39.3
Presentation Format:	rcblsect
Dataset Creation:	Mon May 02 15:57:28 2016 by Calc SCH 120126
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File:	catamountlamke335291rcbl .db
Dataset Pathname:	pass39.3
Dataset Creation:	Mon May 02 15:57:28 2016 by Calc SCH 120126

Gamma Ray Calibration Report

Serial Number:	1307-58	
Tool Model:	Probe275Gr	
Performed:	Wed Nov 13 12:48:08 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1309-51	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	215.525	ft

Master Calibration, performed Mon May 02 15:23:14 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.020	1.600	0.000	71.921	44.396	0.888
CAL	0.005	0.749				
5'	0.005	0.992	0.000	71.921	72.881	-0.374
SUM						
S1	-0.025	1.620	0.000	100.000	60.790	1.520
S2	-0.024	1.598	0.000	100.000	61.652	1.480
S3	-0.024	1.570	0.000	100.000	62.735	1.506
S4	-0.025	1.570	0.000	100.000	62.696	1.567
S5	-0.026	1.460	0.000	100.000	67.295	1.750
S6	-0.025	1.590	0.000	100.000	61.920	1.548
S7	-0.026	1.480	0.000	100.000	66.401	1.726
S8	-0.023	1.600	0.000	100.000	61.614	1.417

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.005	0.749	1.000	0.000

Air Zero Calibration, performed Thu Apr 21 14:51:57 2016:

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