



Radial Cement Bond
Variable Density Log
W/Gamma Ray/CCL

Company	Noble Energy	Company	Noble Energy
Well	Five Rivers K18-69HN	Well	Five Rivers K18-69HN
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-38069	Other Services
SEC 8 TWP 4 N RGE 66 W			
Permanent Datum	Ground Level	Elevation	4702'
Log Measured From	Kelly Bushing	16' APD	
Drilling Measured From	Kelly Bushing		
BHL: 75' FSL & 535' FWL		Elevation	
		K.B. 4718'	
		D.F. 4717'	
		G.L. 4702'	
Date	Feb 27, 2014		
Run Number	One		
Depth Driller	16130'		
Depth Logger	7215'		
Bottom Logged Interval	7204'		
Top Log Interval	Surface		
Open Hole Size	8 3/4"		
Type Fluid	Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	221DegF		
Estimated Cement Top	900'		
Time Well Ready	1400		
Time Logger on Bottom	1445		
Equipment Number	13034		
Location	Brighton, CO		
Recorded By	Robert Grissom		
Witnessed By	Bill Mansfield		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
			From
			To
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			Bottom
Production String	7"	26#	Surface
Liner	4.5"	11.6#	7456'
Short Joint			6130'
			6144'

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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

Primary Log On Well 16' KB

Main Pass Logged Under 2000PSI

Released Pressure to 0 PSI @124'

Logged at 120 fpm (Requested by Customer)

Thank You for using Allied Wireline
(303)659-4609



Main Pass (2000 PSI)

Database File: c:\users\engineers\desktop\noble five rivers k18-69hn_rcbl.db
Dataset Pathname: pass5.1
Presentation Format: scbl03
Dataset Creation: Thu Feb 27 17:56:54 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

0	Amplitude (mV)	100
-5	AMPS1	150
-5	AMPS2	150
-5	AMPS3	150
-5	AMPS4	150
-5	AMPS5	150
-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150

Variable Density	1	Cement Map	8
200	1200	0	100

















