NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

GAMMA RAY / CCL
CEMENT BOND / VDL

Company	K.P. KAUFFMAN
Well	STATE 32-16
Field	PRONGHORN
County	ARAPAHOE
State	COLORADO

Company K.P. KAUFFMAN
Well STATE 32-16
Field PRONGHORN
County ARAPAHOE State COLORADO
Location: API #: 05-005-06698
SWNE
SEC 16 TWP 5S RGE 62W
Other Services

Permanent Datum	GROUND LEVEL	Elevation 5640	Elevation
Log Measured From	KELLY BUSHING,		K.B.
Drilling Measured From	KELLY BUSHING		D.F.
			G.L. 5640

Date	6-12-14
Run Number	ONE
Depth Driller	
Depth Logger	
Bottom Logged Interval	7342
Top Log Interval	
Casing Size	4 1/2"
Type Fluid	WATER
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	92 0438
Tool Size / ID Number	2 3/4PROBE
Location	FT.LUPTON
Recorded By	BRACKELSBERG
Witnessed By	MR.RAMOS

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String				
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 CHOOSING
"CASEDHOLE SOLUTIONS"
FOR YOUR WIRELINE NEEDS

Database File: cblstate16-22.db
Dataset Pathname: pass5
Presentation Format: noble en
Dataset Creation: Fri Jun 12 10:07:54 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cblstate16-22.db
Dataset Pathname: pass5
Dataset Creation: Fri Jun 12 10:07:54 2015 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Wed Feb 27 07:52:48 2013				
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110802
Tool Model: Probe275Digital
Performed: Fri Jun 12 09:49:46 2015

Depth: 2670.73 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0145508	0.0144775	V
Reading in Free Pipe:	2.14319	1.80938	V
Gain:	37.7218	45.2372	
Offset:	0.351118	-0.654923	