C&J ENERGY SERVICES

CEMENT BOND GAMMA RAY COLLAR CORRELATION LOG

Company	ANADARKO PETROLEUM CORP
Well	COMMONS 4-19
Field	WATTENBERG
County	WELD
State	COLORADO

Company ANADARKO PETROLEUM CORP
Well COMMONS 4-19
Field WATTENBERG
County WELD State COLORADO

Location: API # :
NWNW
SEC 19 TWP 1N RGE 68W

Other Services

Permanent Datum	GROUND LEVEL	Elevation
Log Measured From	KELLY BUSHING	
Drilling Measured From	KELLY BUSHING	

Elevation
K.B. 5056
D.F. 5055
G.L. 5041

Date	31-AUG-2018
Run Number	ONE
Depth Driller	8468'
Depth Logger	1972'
Bottom Logged Interval	1970'
Top Log Interval	SURFACE
Casing Size	4 1/2
Type Fluid	WATER
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	--
Time Well Ready	07:00
Time Logger On Bottom	07:40
Unit Number	200054
Tool Size / ID Number	2.75 PROBE
Location	FORT LUPTON
Recorded By	ERB/ McKIE
Witnessed By	DAVID ALMARAZ

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8	24	SURFACE	920'
Prot. String				
Production String	4 1/2	11.6	SURFACE	TOTAL DEPTH
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

NO LOG AVAILABLE FOR CORRELATION

Database File: commons 4-19.db
Dataset Pathname: pass32
Presentation Format: noble en
Dataset Creation: Fri Aug 31 07:41:26 2018 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report
Database File: commons 4-19.db
Dataset Pathname: pass32
Dataset Creation: Fri Aug 31 07:41:26 2018 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION Wed Feb 27 07:52:48 2013

	Counts/Sec.	Gain	Offset	Jig	Units
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: Tue Aug 07 10:22:58 2018

Depth: 1218.46 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	0	V
Reading in Free Pipe:	0.999561	0.952759	V
Gain:	80.3314	85.2221	
Offset:	0.9	0	