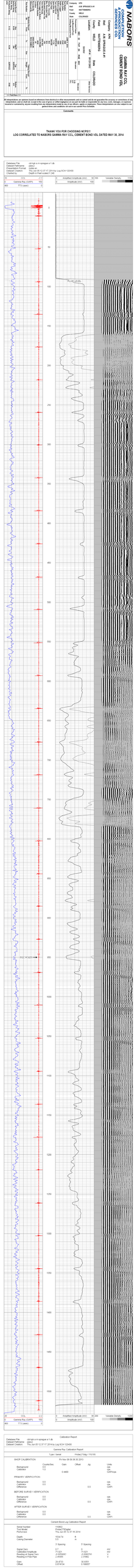

NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company	KPK
Well	A.M. SPRAGUE A #1
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 0512312602

SW/NW

SEC 22 TWP 2N RGE 66W

Other Services

Permanent Datum

Elevation

Log Measured From

Drilling Measured From

Elevation: K.B. D.F. G.L.

Company	KPK
Well	A.M. SPRAGUE A #1
Field	WATTENBERG
County	WELD
State	COLORADO

Date	JUNE 5, 2014
Run Number	ONE
Depth Driller	8140
Depth Logger	1500
Bottom Logged Interval	1500
Top Log Interval	SURFACE
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	159
Time Well Ready	KPK RIG
Time Logger on Bottom	2-3/4 PROBE
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	RICK RAMOS

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	811
Prot. String				
Production String	5-1/2	15.5#	SURFACE	8140
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 NCPS!!!

LOG CORRELATED TO NABORS GAMMA RAY CCL, CEMENT BOND VDL DATED MAY 30, 2014

Database File: cbl kpk a m sprague a 1.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Thu Jun 05 12:37:17 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

20	CCL	-2.2	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0	Gamma Ray (GAPI)	150	0 Amplitude (mV) 100	
400	TT3 (usec)	0		

20	CCL	-2.2	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0	Gamma Ray (GAPI)	150	0 Amplitude (mV) 100	
400	TT3 (usec)	0		

Calibration Report

Database File: cbl kpk a m sprague a 1.db
Dataset Pathname: pass2
Dataset Creation: Thu Jun 05 12:37:17 2014 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION — Fri Nov 08 09:38:30 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.4400			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: Thu Jun 05 12:37:16 2014

Depth: 1534.74 ft
Casing Diameter: 5.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.0059082	-0.0060791	V
Reading in Free Pipe:	2.41055	2.31882	V
Gain:	29.4733	30.9351	
Offset:	0.874134	0.188057	