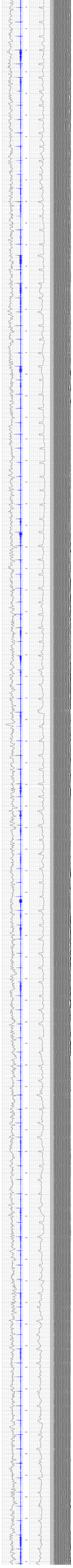

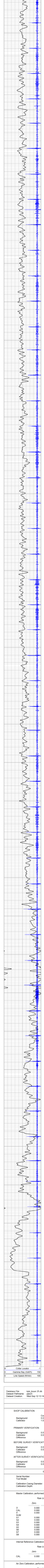

C&J ENERGY SERVICES

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	K.P. KAUFFMAN
Well	BOXER 25
Field	BOXER
County	MORGAN
State	COLORADO

Company K.P. KAUFFMAN
Well BOXER 25
Field BOXER
County MORGAN State COLORADO
Location: API #: 05-087-06759
NWNE
SEC 32 TWP 2N RGE 58W
Other Services: NONE

Permanent Datum	GOUND LEVEL	Elevation 4567	Elevation
Log Measured From	KELLY BUSHING		K.B. 4577
Drilling Measured From	KELLY BUSHING		D.F. 4576
			G.L. 4567

Date	12-SEP-2018
Run Number	ONE
Depth Driller	5961
Depth Logger	5535
Bottom Logged Interval	5534
Top Log Interval	SURFACE
Casing Size	5.5"
Type Fluid	WATER
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	5293
Time Well Ready	1230
Time Logger On Bottom	1300
Unit Number	200054
Tool Size / ID Number	2.75 RADII
Location	FT. LUPTON
Recorded By	JIM McKIE
Witnessed By	MR. RICK RAMOS

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625	24	SURFACE	106
Prot. String				
Production String	5.5"	15.5	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
HEAVY MUD ENCOUNTERED ON BOTTOM CAUSING CYCLE SKIPS

Database File:	kpk_boxer 25.db
Dataset Pathname:	pass5
Presentation Format:	scbl_dr
Dataset Creation:	Wed Sep 12 13:14:54 2018 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File:	kpk_boxer 25.db
Dataset Pathname:	pass5
Dataset Creation:	Wed Sep 12 13:14:54 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

Segmented Cement Bond Log Calibration Report

Serial Number:	101020	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1294.783	ft

Master Calibration, performed Wed Sep 12 12:50:15 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.431	0.900	71.921	49.625	0.900
CAL	0.000	1.747				
5'	0.000	1.231	0.900	71.921	57.692	0.900
SUM						
S1	0.000	1.327	0.000	71.921	54.210	0.000
S2	0.000	1.369	0.000	71.921	52.546	0.000
S3	0.000	1.424	0.000	71.921	50.520	0.000
S4	0.000	1.471	0.000	71.921	48.899	0.000
S5	0.000	1.481	0.000	71.921	48.564	0.000
S6	0.000	1.443	0.000	71.921	49.856	0.000
S7	0.000	1.375	0.000	71.921	52.320	0.000
S8	0.000	1.326	0.000	71.921	54.224	0.000

Internal Reference Calibration, performed Tue Feb 12 12:45:01 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.747	1.000	0.000

Air Zero Calibration, performed Wed Jun 13 14:05:09 2018:

	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