GAMMA RAY C.C.L. CEMENT BOND V.D.L.

KLX Energy Services

Company	CITY & COUNTY OF DENVER
Well	BOX ELDER B-1
Field	THIRD CREEK
County	DENVER
State	COLO

Company CITY & COUNTY OF DENVER
Well BOX ELDER B-1
Field THIRD CREEK
County DENVER State COLO

Location: API #: 05.031.06425
1980' FSL & 660' FEL
LAT: 39.889400 / LONG: -104.716340
NESE
SEC 12 TWP 2S RGE 66W

Other Services

Permanent Datum GL Elevation 5,261'
Log Measured From KB
Drilling Measured From KB

Elevation
K.B.
D.F.
G.L. 5,261'

Date	25-OCT-2016
Run Number	ONE
Depth Driller	8,385'
Depth Logger	8,192'
Bottom Logged Interval	8,192'
Top Log Interval	SURFACE
Open Hole Size	7.785"
Type Fluid	WATER
Density / Viscosity	8.33PPG
Max. Recorded Temp.	256° F
Estimated Cement Top	N/A
Time Well Ready	7:00AM
Time Logger on Bottom	8:12AM
Equipment Number	411468
Location	STERLING
Recorded By	LEROY HOBBS
Witnessed By	JULIE BRANTING

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	219'
Prot. String				
Production String	5-1/2"	17#	SURFACE	8,389'
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 USING KLX ENERGY SERVICES.

Calibration Report

Database File: 10-25-16.db
Dataset Pathname: pass2
Dataset Creation: Tue Oct 25 07:20:47 2016 by Log Std Casedhole 10081

Temperature Calibration Report

Serial Number: 080714
Tool Model: 1.375TEMP
Performed: Tue Sep 01 11:41:35 2015

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	100.00 degF	1000.00cps

Gain: 0.33
Offset: 0.00
Delta Spacing 2

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 080220

SHOP CALIBRATION Wed Sep 21 13:45:23 2016

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.2000			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: 080430
Tool Model: Digital HT (Probe 275 CBL)
Performed: Tue Oct 25 07:20:44 2016

Depth: 99.4417 ft
Casing Diameter: 5.5 in

	3' Spacing	5' Spacing	
Signal Zero:	1	1	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.00244141	0.00234375	V
Reading in Free Pipe:	0.885669	0.511328	V
Gain:	80.2975	139.338	
Offset:	0.803961	0.673426	

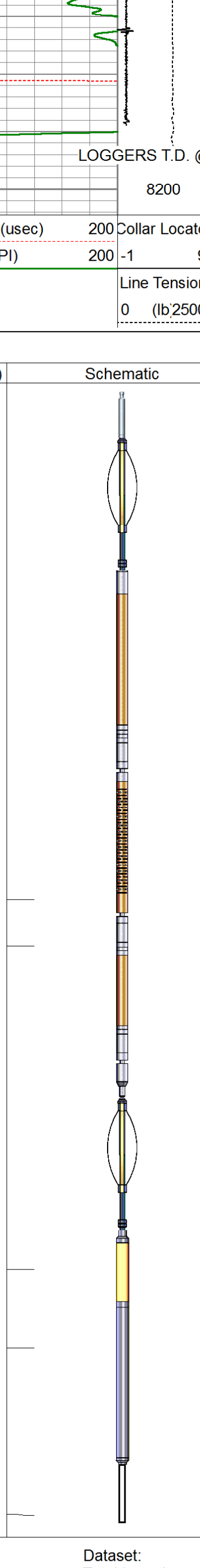
Database File: box_elder_b-1_cbl.db
Dataset Pathname: pass2
Presentation Format: cbldig
Dataset Creation: Tue Oct 25 08:54:38 2016 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

400 Travel Time (usec) 200	Collar Locator	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 200	-1 9	0 Amplified Amplitude (mV) 10	
	Line Tension 0 (lb 2500		

400 Travel Time (usec) 200	Collar Locator	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 200	-1 9	0 Amplified Amplitude (mV) 10	
	Line Tension 0 (lb 2500		

Database File: box_elder_b-1_cbl.db
Dataset Pathname: pass1
Presentation Format: cbldig
Dataset Creation: Tue Oct 25 07:54:08 2016 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

400 Travel Time (usec) 200	Collar Locator	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 200	-1 9	0 Amplified Amplitude (mV) 10	
	Line Tension 0 (lb 2500		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	3.00
			PTS275	2.83	2.75	
WVF3 WVF5	13.33 12.33		CBL-Digital HT (Probe 275 CBL) (080430) Probe 275 CBL HT	11.28	2.75	130.00
			PTS275	2.83	2.75	
CCL GR	5.42 3.75		GR-Probe275dig (080220) Probe 2.75 High Temperature	5.00	2.75	57.00
TEMP	0.17		TEMP-1.375TEMP (080714) Temperature Tool	1.25	1.38	30.00

Dataset: box_elder_b-1_cbl.db: field/well/run1/pass1
Total Length: 24.20 ft
Total Weight: 220.00 lb
O.D.: 2.75 in