The Perforators LLC

Cement Bond Log

Company	John O Farmer Inc.		
Well	States A#2		
Field	Hansen West		
County	Phillips	State	Kansas
Location:	API # : 15-147-20592		
	110' FNL & 1170' FEL		
	SEC 15 TWP 5s RGE 20w		
Permanent Datum	Ground Level	Elevation	2099'
Log Measured From	KB 5' AGL		
Drilling Measured From	KB		

Date	10-11-12
Run Number	TC
Depth Driller	3625'
Depth Logger	3606'
Bottom Logged Interval	3600'
Top Log Interval	2400'
Open Hole Size	7 7/8"
Type Fluid	////
Density / Viscosity	////
Max. Recorded Temp.	////
Estimated Cement Top	2500'
Time Well Ready	On Arrival
Time Logger on Bottom	0830 AM
Equipment Number	1440
Location	Hays KS
Recorded By	Casey Hansen
Witnessed By	Mr. Duane Eighman

Other Services

	Elevation
K.B.	2104'
D.F.	2103'
G.L.	2099'

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String				
Intermediate String				
Production String				
Liner				

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

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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 The Perforators

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Port Collar

Database File: states a#2.db
Dataset Pathname: pass5
Presentation Format: cbl
Dataset Creation: Thu Oct 11 09:25:48 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

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Main Pass

Database File: states a#2.db
Dataset Pathname: pass4
Presentation Format: cbl
Dataset Creation: Thu Oct 11 08:51:38 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

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Repeat Section

Database File: states a#2.db
Dataset Pathname: pass3
Presentation Format: cbl
Dataset Creation: Thu Oct 11 08:38:34 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: states a#2.db
Dataset Pathname: pass4
Dataset Creation: Thu Oct 11 08:51:38 2012 by Log Open-Cased 071220

Gamma Ray Calibration Report

Serial Number:	080224	
Tool Model:	Probe1	
Performed:	Thu Sep 27 07:34:48 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	15.0	cps
Calibrator Reading:	222.7	cps
Sensitivity:	0.9629	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	061007		
Tool Model:	DigitalCBL		
Performed:	Wed Oct 03 14:06:47 2012		
Depth:	328.171	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	2	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.00253906	-0.00246582	V
Reading in Free Pipe:	1.44897	1.39895	V
Gain:	48.1711	51.3202	
Offset:	2.12231	0.126546	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			275 2 3/4" Centralizer	2.94	2.75	10.00
WVF3	11.69		Probedig-DigitalCBL (061007) 2 3/4 Bond Tool	8.77	2.75	92.00
WVF5	10.69					
			275 2 3/4" Centralizer	2.94	2.75	10.00
CCL	3.67		CCL-Probe (080224)	1.42	2.75	20.00
GR	2.30		GR-Probe1 (080224)	3.08	2.75	40.00

Dataset: states a#2.db: field/well/run1/pass4
Total Length: 19.14 ft
Total Weight: 172.00 lb
O.D. 2.75 in