PEAK WIRELINE SERVICES, INC.

CBL/VDL/GR/CCL
CEMENT BOND LOG

Company: MULL DRILLING COMPANY, INC.
Well: #1-A TALLMAN FARMS "A"
Field: WILDCAT
County: KIOWA
State: COLORADO

Location: SEC 1-T16S-R49W FNL 1,500' FSL & 660' FWL

Other Services: DIGITAL SPECTRAL DENSITY DUAL SPACED NEUTRON

Permanent Datum: GROUND LEVEL
Elevation: 4,241 ft
Log Measured From: KELLY BUSHING
4,256 ft above Permanent Datum

Date	12-Feb-10	
Run Number	ONE	
Depth Driller	5,000 ft	
Depth Logger	4,998 ft	
Bottom Logged Interval	4,998 ft	
Top Logged Interval	3,000 ft	
Type Fluid in Hole	WATER BASED MUD	
Salinity, PPM Cl	1,000 PPM	
Density / Viscosity	8.4 LB/GAL / 28 SEC	
Max Recorded Temperature	120 DEG F	
Estimated Cement Top	3,000 ft	
Time Circulation Stopped	12:00	
Time Logger on Bottom	15:30	
Equipment / Base	10139 / DENVER	
Recorded By	J. MCCLAIN	
Witnessed By	MR. MULL	

Bit Record						
No.	Bit	Size	Type	From	To	Hours
1		7.875		0	5,000	

Casing Record				
	Size	Weight	From	To
Surface String	8.625 in	24 LB/FT	0 ft	1,000 ft
Production String	4.5 in	10.5 LB/FT	0 ft	5,000 ft

Borehole Record			
Bit Size	From	To	
7.875 in	0 ft	5,000 ft	

Tool Specifications				
Tool Type	Model	Serial No.	Distance	
Gamma Ray	10139	10139	0 ft	
Neutron	10139	10139	0 ft	
Density	10139	10139	0 ft	
Cement Bond Log	10139	10139	0 ft	

Tool Run 1

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

PEAK WIRELINE SERVICES, INC.

MAIN PASS SQUEEZE

Database File: mull.db
Dataset Pathname: 11-FEB-run1/pass5
Presentation Format: CBL_M
Dataset Creation: Fri Jan 22 15:48:36 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

	Collar Locator		AMP (mm)		Variable Density
0		-1	0	100,000	1200
0	Gamma Ray (GAPI)	150	1000	TT3 (usec)	200

4450
4500
4550
4600
4650
4700
4750
4800
4850

REPEAT SECTION SQUEEZE

Database File: mull.db
Dataset Pathname: 11-FEB-run1/pass4
Presentation Format: CBL_M
Dataset Creation: Fri Jan 22 15:39:46 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

	Collar Locator		AMP (mm)		Variable Density
0		-1	0	100,000	1200
0	Gamma Ray (GAPI)	150	1000	TT3 (usec)	200

4450
4500
4550
4600
4650
4700
4750
4800
4850

MAIN PASS

Database File: mull.db
Dataset Pathname: 11-FEB-run1/pass2.1
Presentation Format: CBL_M
Dataset Creation: Wed Jan 13 16:19:06 2010 by Calc Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240

	Collar Locator		AMP (mm)		Variable Density
0		-1	0	100,000	1200
0	Gamma Ray (GAPI)	150	1000	TT3 (usec)	200

4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050

Top of Cement
3,000 ft

Collar Locator
Gamma Ray
Neutron
Density
Cement Bond Log
T3 Travel Time
Amplitude
Mud Pressure
Collar Depth

	Collar Locator		AMP (mm)		Variable Density
0		-1	0	100,000	1200
0	Gamma Ray (GAPI)	150	1000	TT3 (usec)	200

Calibration Report

Database File: mull.db
Dataset Pathname: 11-FEB-run1/pass4
Dataset Creation: Fri Jan 22 15:39:46 2010 by Log Std Casedhole 07122

Gamma Ray Calibration Report

Serial Number:	08112008	
Tool Model:	PROBE	
Performed:	Fri Jan 22 15:45:36 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	040005		
Tool Model:	probe		
Performed:	Fri Jan 22 15:37:03 2010		
Depth:	3272.83	ft	
Casing Diameter:	5.5	in	
	T Spacing	T Spacing	
Signal Zero:	0	0	mV
Calculated Amplitude:	79.925	79.925	mV
Reading at Signal Zero:	-0.35	0.6467773	V
Reading at Free Pipe:	1.25195	2.12793	V
Gain:	42.1781	54.0024	
Offset:	14.7623	-2.52099	