Company	MULL DRILLING COMPANY, INC.
Well	GERWICK #1-4
Field	CHEYENNE WELLS
County	CHEYENNE
State	COLORADO
Location	660' FNL & 990' FWL SEC-4 TWP-14S RGE-44W
Log Measured From	KELLY BUSHING 17 Above Perm. Datum
Drilling Measured From	KELLY BUSHING
Permanent Datum	GL
Elevation	K.B. 4373 D.F. 4371 G.L. 4361
Date	Other Services
Run Number	ONE
Depth Driller	4371
Depth Logger	4370
Bottom Logged Interval	4370
Top Log Interval	3600
Open Hole Size	7 7/8
Type Fluid in Hole	WATER
Density	8.4
Viscosity	28
Max. Recorded Temp.	110
Estimated Cement Top	3600
Time Logger at Bottom	1:00
Time Circulation Ceased	12:00
Time Logger on Bottom	1:45
Equipment/Location	10/Kimbrell
Recorded By	Kimbrell
Witnessed By	Mr. Ryan

BHC SONIC GR CALIPER
CEMENT BOND LOG
VDL
GR/CCL

Bit Size	Casing Size	Weight	Grade	From	To
7 7/8	5 1/2	15.5	J-55	0	4370
7 7/8	8 5/8	24	J-55	0	1000

Type	Density	Viscosity	Ph	Fluid Loss	Source	RM	RMF	RMC	Rm @ BHT
GEL CHEM	9.2	50	10	8.0	RMF	0.75	0.60	1.00	0.45

Type	Amount	Size	From	To
CEMENT	150	5 1/2	4370	3600

PEAK WIRELINE SERVICES, INC.

RUN: SPACED
CEMENT BOND LOG

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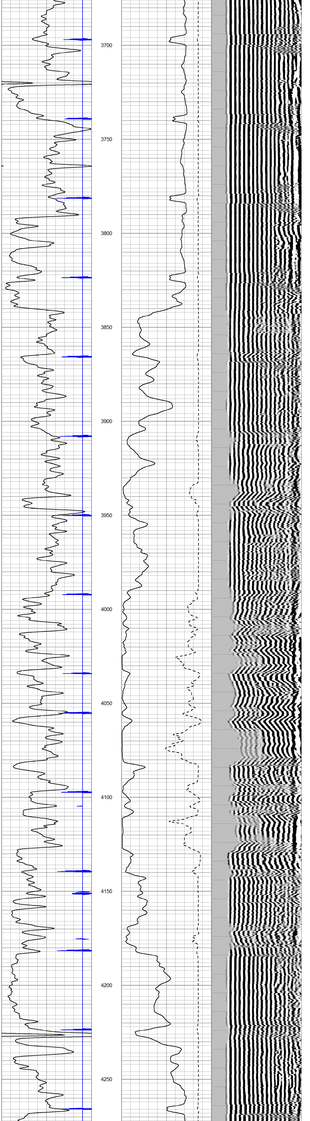
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

PEAK WIRELINE SERVICES, INC.

SQUEEZE PASS

Database File: gerwick.db
Dataset Pathname: 1-4run1pass4
Presentation Format: cbl(s)
Dataset Creation: Tue Dec 17 08:17:49 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: gerwick.db
Dataset Pathname: 1-4run1pass2
Dataset Creation: Thu Dec 12 08:51:39 2013 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061220GR	
Tool Model:	PROBE	
Performed:	Mon Nov 11 11:12:24 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	5.5dg040201		
Tool Model:	Probe2700digital		
Performed:	Thu Dec 12 08:49:56 2013		
Depth:	3201.5	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.25	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.0088623	0.0141357	V
Reading in Free Pipe:	2.30048	2.18564	V
Gain:	31.0352	33.1203	
Offset:	0.525044	-0.46618	