J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	NOBLE ENERGY PRODUCTION, INC.
Well	COLEMAN C 22-21 D
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 05-123-32134-00
SHL: 1445' FSL & 2560' FWL NE/SW
BHL: 2550' FNL & 2550' FWL SE/NW
SEC 22 TWP 4N RGE 64W

Other Services
PERF

Permanent Datum GROUND LEVEL Elevation 4668
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4681
D.F. ---
G.L. 4668

Company NOBLE ENERGY PRODUCTION, INC.
Well COLEMAN C 22-21 D
Field WATTENBERG
County WELD
State COLORADO

Date	01-APR-2011
Run Number	ONE
Depth Driller	7180
Depth Logger	7111
Bottom Logged Interval	7106
Top Log Interval	900
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	232 F
Estimated Cement Top	1060
Time Well Ready	---
Time Logger on Bottom	---
Equipment Number	2405/YELLOW
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MR. CASEY RUPPEL

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	599
Prot. String				
Production String	4 1/2	11.6	SURFACE	7154
Liner				

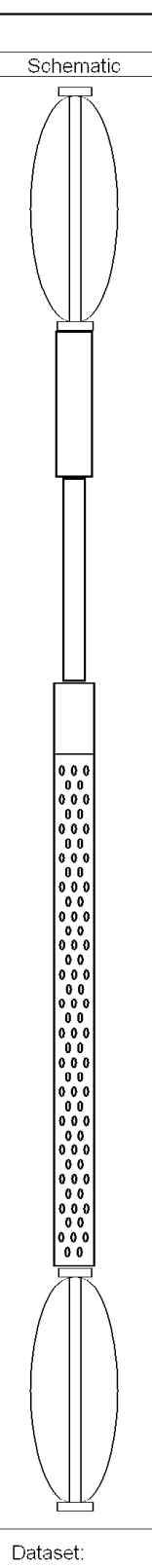
<<< Fold Here >>>

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

PRIMARY LOG

THANK YOU FOR CHOOSING J-W WIRELINE



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-A (1)	3.00	1.69	10.00
CCL	13.46		CCL-TEKCO (TEK101)	1.81	2.75	10.00
GR	11.49		GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34		CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

Dataset: coleman c 22-21 d_cbl.db: field/well/run1/pass4
Total Length: 17.56 ft
Total Weight: 187.00 lb
O.D. 2.75 in

Database File: coleman c 22-21 d_cbl.db
Dataset Pathname: pass5
Presentation Format: cblx
Dataset Creation: Fri Apr 01 09:01:10 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	200
5	CCL	-0.75
300	TT3 (usec)	200

0	AMPLITUDE (mV)	100
0	AMPLIFIED AMPLITUDE (mV)	30

200 Variable Density 1200

0	GAMMA RAY (GAPI)	200
5	CCL	-0.75
300	TT3 (usec)	200

0	AMPLITUDE (mV)	100
0	AMPLIFIED AMPLITUDE (mV)	30

200 Variable Density 1200

Database File: coleman c 22-21 d_cbl.db
Dataset Pathname: pass4
Presentation Format: cblx
Dataset Creation: Fri Apr 01 07:39:21 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	200
5	CCL	-0.75
300	TT3 (usec)	200

0	AMPLITUDE (mV)	100
0	AMPLIFIED AMPLITUDE (mV)	30

200 Variable Density 1200

Calibration Report

Database File:	coleman c 22-21 d_cbl.db
Dataset Pathname:	pass4
Dataset Creation:	Fri Apr 01 07:39:21 2011 by Log Std Casedhole 10121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Fri Apr 01 07:10:49 2011		
Depth:	948.808	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	3	3	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.03	0.03	V
Reading in Free Pipe:	2.15244	1.58984	V
Gain:	36.8425	50.1308	
Offset:	1.89472	1.49607	

Gamma Ray Calibration Report

Serial Number:	t001	
Tool Model:	s_t001	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps