Casedhole Solutions

Company NOBLE ENERGY, INC.
Well FRICO 16-15 (DIR)
Field WATTENBERG
County WELD
State COLORADO

GAMMA RAY
CASING COLLARS
CEMENT BOND
VARIABLE DENSITY

Company NOBLE ENERGY, INC.
Well FRICO 16-15 (DIR)
Field WATTENBERG
County WELD
State COLORADO
Location: SE SE SEC 15 TWP 3N RGE 65W
API # 05-123-21629
Other Services

Permanent Datum: GROUND LEVEL Elevation 4821
Log Measured From: KELLY BUSHING 15 Ft. Above Perm. Datum
Drilling Measured From: KB
K.B. 4821
D.F.
G.L. 4805

Run Number: ONE
Depth-Driller: 7000
Depth-Logger: 6999
Bottom Logged Interval: 6990
Top Logged Interval: 2200
Type Fluid in Hole: FRESH WATER
Salinity: 0
Density: 8.4
Level: FULL
Max Rec. Temperature: 160
Equipment No. & Location: 1609 GREELEY
Recorded By: BRADEN STERRY
Witnessed By: MR.VONSTEIN

Casing Record — Size: Wgt/ft: Top: Bottom:
Liner — Size: Wgt/ft: Top: Bottom:
Tubing Record — Size: Wgt/ft: Top: Bottom:
Perforation Record — Shot No.: From: To:
Run Number: Date: Type Log: Depth-Driller: Depth-Logger: Btm. Log Interval: Top Log Interval: Type Fluid in Hole: Salinity: Density: Level: Max Rec. Temperature: Equipment No. & Location: Recorded By: Witnessed By:
Tool String (Run Order): 1 3/8" CENTRALIZER; CBL-VDL-GR SONDE; 1 3/8" CENTRALIZER; CCL
Tool Size / ID: 1 3/8"
Tool Type / Logged Direction: CBL-VDL-GR SONDE / DOWN
Time Logger On Bottom: 10:00
Estimated Cement Top: 2200
Cement Top: Tagged / Calculated / Observed
Remarks: RUN 1 LOGGED WITH 1000 PSI ON CASING. GOOD BOND ON 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

THANK YOU FOR USING
CASEDHOLE SOLUTIONS, FOR YOUR WIRELINE NEEDS
NOTE: LOG NOT CORROLATED

Calibration Report

Database File: coltrico16-15.db
Dataset Pathname: pass6
Dataset Creation: Tue Aug 16 07:36:31 2016 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION — Wed Feb 27 07:52:48 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			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: 110802
Tool Model: Probe27SDigital
Performed: Tue Aug 16 07:31:46 2016

Depth: 966.45 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.0119873	-0.0121582	V
Reading in Free Pipe:	2.45095	2.33542	V
Gain:	32.6017	34.5871	
Offset:	1.29081	0.420517	

Database File: cbltrico16-15.db
Dataset Pathname: pass6
Presentation Format: noble en
Dataset Creation: Tue Aug 16 07:36:31 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

80 CCL -4
0 Gamma Ray (GAPI) 150
340 TT3 (usec) 240

0 Amplified Amplitude (mV) 30 200 Variable Density 1200
0 Amplitude (mV) 100

1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200

80 CCL -4
0 Gamma Ray (GAPI) 150
340 TT3 (usec) 240

0 Amplified Amplitude (mV) 30 200 Variable Density 1200
0 Amplitude (mV) 100