Company	NOBLE ENERGY INC
Well	UCC 5-29-14
Field	WATTENBERG
County	WELD
State	COLORADO
Other Services	CBL/VDL/GR/CCL
Permanent Datum	GROUND LEVEL
Elevation	4,787 ft
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elevation	4,787 ft
Elevation	4,787 ft
Elevation	4,787 ft
Date	14-OCT-2010
Run Number	ONE
Depth Driller	8,000 ft
Depth Logger	7,992 ft
Bottom Logged Interval	7,992 ft
Top Logged Interval	1,000 ft
Casing Driller	8.625 in @ 1,000 ft
Casing Logger	1,000 ft
Bit Size	7.875 in
Type Fluid in Hole	WBM
Density / Viscosity	9.2 lbm/gal / 40 s
Max Recorded Temperature	0 degF
Estimated Cement Top	0 ft
Time Circulation Stopped	0
Time Logger on Bottom	0
Equipment / Base	10128 / DENVER
Recorded By	COMPARDO
Witnessed By	

CEMENT BOND LOG
GAMMA RAY
COLLAR CORRELATION LOG

PI 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 wilful 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 standard terms and conditions as set forth in our current Price Schedule.

Comments

LOG CORRELATED TO SDI DUAL AC TR LOG
DATED 20-SEPTEMBER-2010

LOG SPLIT FOR CORRELATION PURPOSES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT A (1)	3.00	1.69	10.00
CCL	11.25		CCL-CIR_T_SR (SR1) Shear (1)	1.55	1.38	11.00
GR	11.40		GR-A_XXT (SR1)	2.72	1.69	30.00
WVP3	7.34		CBL-3_D (SR1)	7.23	2.44	127.00
WVP3	0.74					
			CENT B (2)	3.00	1.69	10.00

Cablehead
Total Length: 10.13 ft
Max OD: 2.44 in
1.00

SDI_2-1/4_DL Radial/Axial Eccent
10.13 ft
1.00 in
1.69 in

Database File: SDI_2-1/4_DL
Database Filename: cbl
Presentation Format: cbl
Dataset Creation: Wed Oct 20 14:50:21 2010
Charted by: Depth in Feet scaled 1:240

SDI_2-1/4_DL Radial/Axial Eccent
Log Std: Llewellyn-SPCT

0 Unstable Ax.I - (GAP) 1742
CCL 0.0 (V)

0 AMPLITUDE (mV) 500.000
AMPLITUDE AMPLITUDE (mV) 0

Variable Density 1250

Top of Cement

Casing Collar

Variable Density

Unstable Ax.I

0 Unstable Ax.I - (GAP) 1742

0 AMPLITUDE (mV) 500.000
AMPLITUDE AMPLITUDE (mV) 0

Variable Density 1250

Calibration Report

Database File: SDI_2-1/4_DL
Dataset Pathname: cbl
Dataset Creation: Wed Oct 20 14:50:21 2010
Log Std: Llewellyn-SPCT

Current Borehole Logs Calibration Report

Serial Number	302		
Tool Model	SDI_2-1/4_DL		
Calibrated	Wed Oct 20 14:47:50 2010		
Depth	8134.24	ft	
Casing Diameter	4.5	in	
	0 spacing	0 spacing	
Digital Zero	0		mV
Reading at Amplitude	0 - 1261	0 - 1893	mV
Reading at Digital Zero	0	0	mV
Reading at Free Pipe	0	1.2539	V
Gain	1	1	
Offset	0 - 2764	0 - 1679	
Calibrated	yes	yes	

Gamma Ray Calibration Report

Serial Number	302	
Tool Model	SDI_2-1/4_DL	
Calibrated	Wed Oct 13 10:12:31 1993	
Calibration Value	0 - 1261	0 - 1893
Calibration Reading	0.0	0.0
	yes	yes
Satisfactory	1.0000	GAPI/cps