SUPERIOR WELL SERVICES

Company	NOBLE ENERGY INC.
Well	MARLEY C01-30D
Field	WATTENBERG
County	WELD
State	COLORADO

GAMMA RAY CCL CEMENT BOND VDL

Company NOBLE ENERGY INC.

Well MARLEY C01-30D

Field WATTENBERG

County WELD State COLORADO

Location: API # : 0512331223

SHL: 509' FNL & 652' FWL NW NW
BHL: 48' FNL & 91' FWL NW NW
SEC 1 TWP 4N RGE 64W

Other Services

Permanent Datum	GL	Elevation 4607	Elevation K.B. 4622 D.F. 4621 G.L. 4607
Log Measured From	KB		
Drilling Measured From	KB		

Date	APRIL 25, 2011
Run Number	ONE
Depth Driller	6978
Depth Logger	6910
Bottom Logged Interval	5000-6909
Top Log Interval	1096-5000
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	239 DEG. F
Estimated Cement Top	1431
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	1-11/16 GO TOOL
Equipment Number	3342
Location	45
Recorded By	GREG NOLAN
Witnessed By	MITCH TRIMBLE

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	14.9	574
Prot. String				
Production String	4-1/2	11.6	15.1	6968
Liner				

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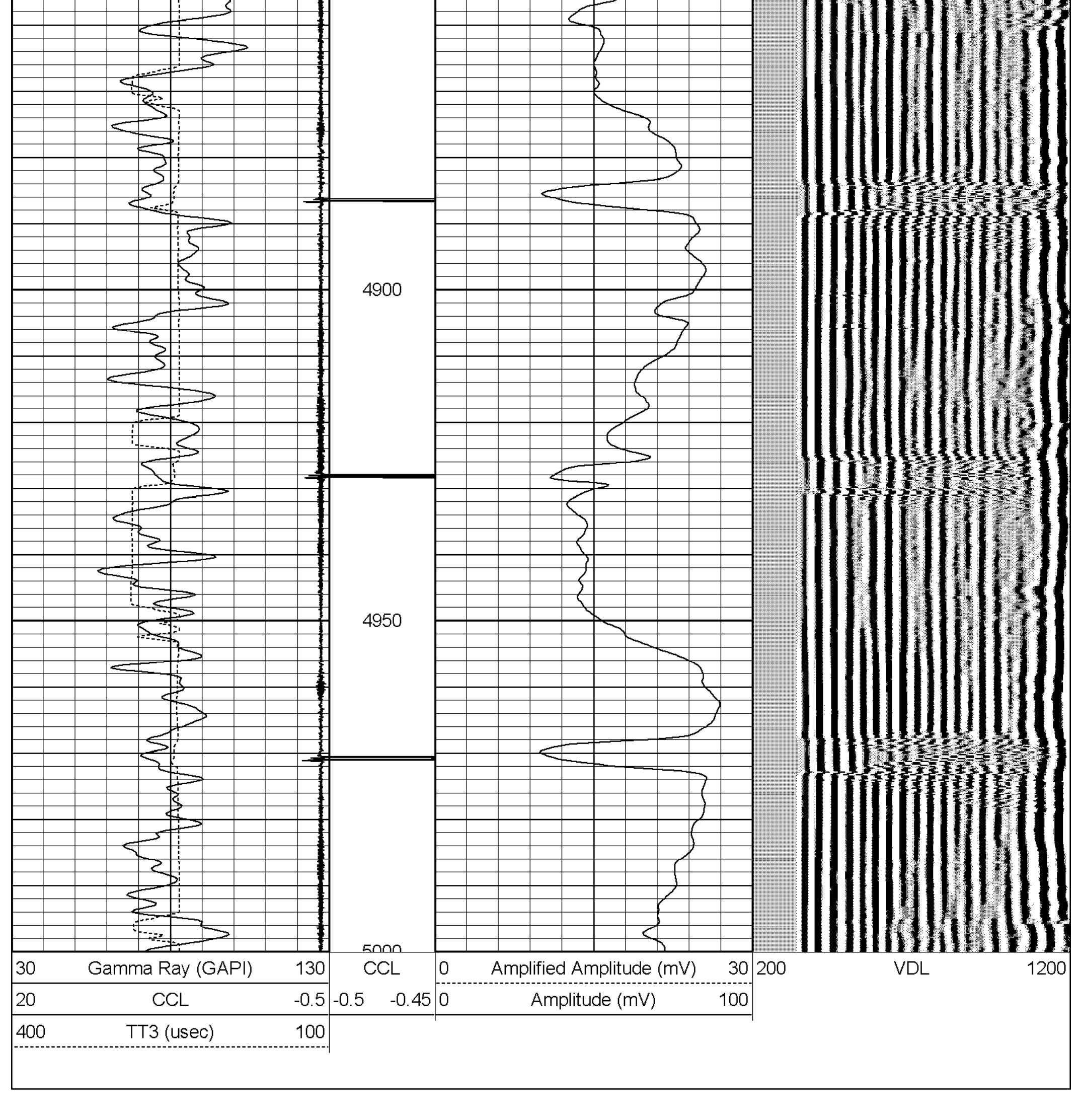
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 CHOOSING SUPERIOR WELL SERVICES!!!!
LOG CORRELATED TO PSI COMP. DENSITY/NEUTRON MICROLOG DATED APRIL 12, 2011
WCR 50 & WCR 59, E.3, SW INTO
CENTER WELL OF A 3 WELL PAD

Database File:	cbl noble marley c01-30d.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Mon Apr 25 12:40:36 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30 Gamma Ray (GAPI) 130	CCL	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -0.5	-0.5 -0.45	0 Amplitude (mV) 100	
400 TT3 (usec) 100			



30 Gamma Ray (GAPI) 130	CCL	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -0.5	-0.5 -0.45	0 Amplitude (mV) 100	
400 TT3 (usec) 100			

Database File: cbl noble marley c01-30d.db
Dataset Pathname: pass2.1
Presentation Format: nuexbond
Dataset Creation: Mon Apr 25 12:41:55 2011 by Calc Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 200	CCL	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -0.5	-0.5 -0.45	0 Amplitude (mV) 100	
400 TT3 (usec) 100			

0 Gamma Ray (GAPI) 200	CCL	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -0.5	-0.5 -0.45	0 Amplitude (mV) 100	
400 TT3 (usec) 100			

Calibration Report

Database File: cbl noble marley c01-30d.db
Dataset Pathname: pass3
Dataset Creation: Mon Apr 25 12:40:36 2011 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Tue Sep 21 09:37:35 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

CBL Calibration Report

Serial Number:	111		
Tool Model:	TekCo_GOI		
Performed:	Mon Apr 25 12:02:13 2011		
Depth:	248.083		ft
Casing Diameter:	4.500		in
	3' Spacing	5' Spacing	
Signal Zero:	0.800	0.800	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	0.008	0.008	V
Reading in Free Pipe:	1.731	1.737	V
Gain:	46.639	46.494	
Offset:	0.441	0.443	