SUPERIOR WELL SERVICES

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	WELLS RANCH AA26-13X
Field	WATTENBERG
County	WELD
State	COLORADO

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Field WATTENBERG
County WELD State COLORADO
Location: API #: 0512330673
667' FSL & 670' FWL
SWSW
SEC 26 TWP 6N RGE 63W
Other Services

Permanent Datum	GL	Elevation	4820
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4835
D.F. 4835
G.L. 4820

Date	NOVEMBER 3, 2010
Run Number	ONE
Depth Driller	6968
Depth Logger	6888
Bottom Logged Interval	6887
Top Log Interval	1972
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	229 DEG. F
Estimated Cement Top	2155
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	JEREMIE SCHNEIDER

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	15	564.5
Prot. String				
Production String	4-1/2	11.6	15	6955
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 HALLIBURTON OPEN HOLE LOG DATED 21-OCT-10
WCR 67 & WCR 68, E.2, S1.75, E.75, SW INTO

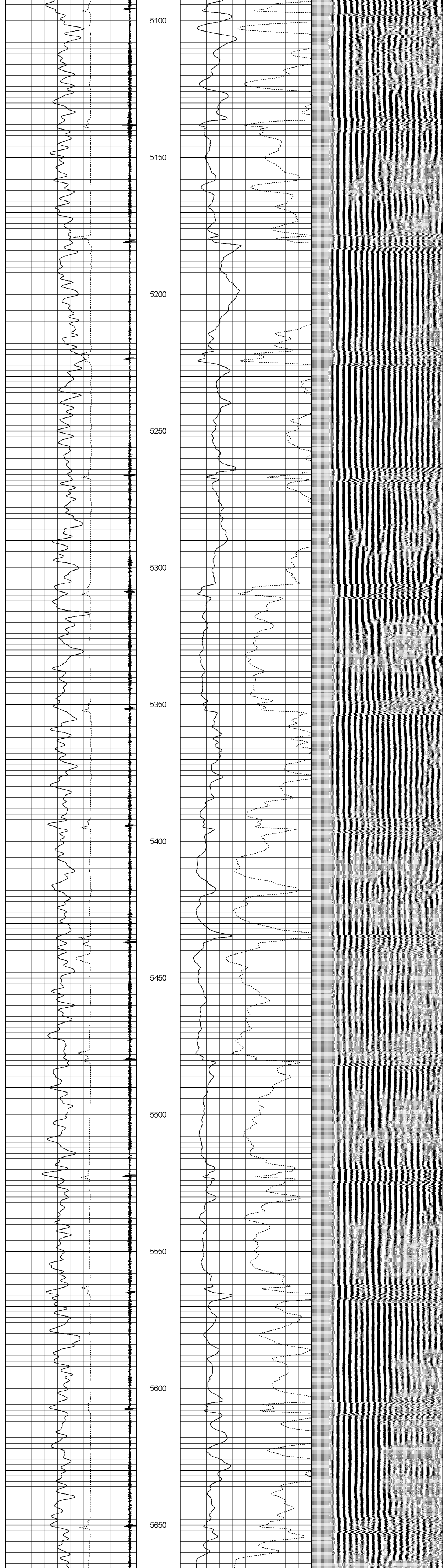
Database File:	cblwellsranchaa26-13x.db
Dataset Pathname:	pass5
Presentation Format:	nuexbond
Dataset Creation:	Wed Nov 03 12:01:02 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	30	200	VDL	1200
20	CCL	-1	0	Amplitude (mV)	100			
500	TT3 (usec)	100						

30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	30	200	VDL	1200
20	CCL	-1	0	Amplitude (mV)	100			
500	TT3 (usec)	100						

Database File:	cblwellsranchaa26-13x.db
Dataset Pathname:	pass4
Presentation Format:	nuexbond
Dataset Creation:	Wed Nov 03 11:44:00 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30	200	VDL	1200
20	CCL	-1	0	Amplitude (mV)	100			
500	TT3 (usec)	100						



Calibration Report

Database File: cblwellsranchaa26-13x.db
Dataset Pathname: pass5
Dataset Creation: Wed Nov 03 12:01:02 2010 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:	Wed Nov 03 11:19:43 2010	
Depth:	2075.358	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:	1.507	1.664	V
Gain:	53.000	48.559	
Offset:	0.370	0.412	