SUPERIOR WELL SERVICES

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	GUTTERSEN STATE D16-27
Field	WATTENBERG
County	WELD
State	COLORADO

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County WELD State COLORADO

Location: API #: 0512331043
220' FNL & 1355' FEL
NW NE
SEC 16 TWP 3N RGE 64W

Other Services

Permanent Datum GL Elevation 4748
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4763
D.F. 4762
G.L. 4748

Date	JUNE 17, 2010
Run Number	ONE
Depth Driller	7137
Depth Logger	7074
Bottom Logged Interval	7073
Top Log Interval	1425
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	236 DEG. F
Estimated Cement Top	1695
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	644.6
Prot. String				
Production String	4-1/2	11.6	14.9	7125
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 OPEN HOLE LOG DATED JUNE 3, 2010
GUTTERSEN RANCH 34 & 53, E.75, S INTO

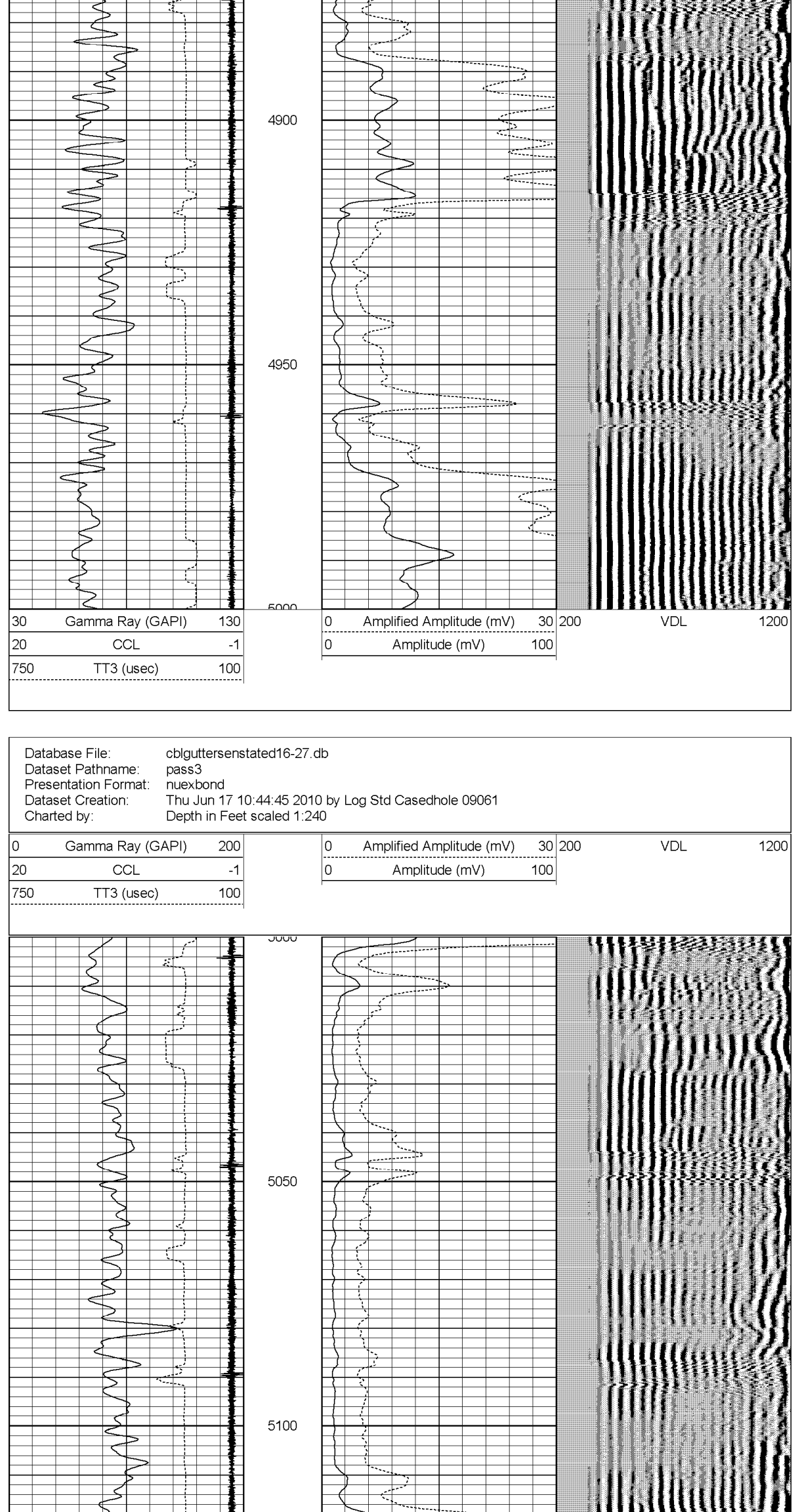
Database File: cblguttersenstated16-27.db
Dataset Pathname: pass4
Presentation Format: nuexbond
Dataset Creation: Thu Jun 17 11:05:06 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

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

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

Database File: cblguttersenstated16-27.db
Dataset Pathname: pass3
Presentation Format: nuexbond
Dataset Creation: Thu Jun 17 10:44:45 2010 by Log Std Casedhole 09061
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			
750	TT3 (usec)	100						



Calibration Report

Database File:	cblguttersenstated16-27.db
Dataset Pathname:	pass2
Dataset Creation:	Thu Jun 17 10:21:49 2010 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Thu Jun 10 12:00:50 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:	Thu Jun 17 10:21:32 2010		
Depth:	257.883	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.200	1.200	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	-0.006	-0.006	V
Reading in Free Pipe:	2.500	2.500	V
Gain:	31.928	31.925	
Offset:	1.379	1.383	