SUPERIOR WELL SERVICES

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	IGO FARMS J28-31D
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well IGO FARMS J28-31D
Field WATTENBERG
County WELD State COLORADO

Location: API # : 0512330895
SHL: 1427' FNL & 971' FWL SWNW
BHL: 75' FWL & 1100' FNL NWNW
SEC 28 TWP 5N RGE 66W

Other Services

Permanent Datum GL Elevation 4876
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4892
D.F.
G.L. 4876

Date	JANUARY 19, 2011
Run Number	ONE
Depth Driller	7602
Depth Logger	7560
Bottom Logged Interval	7559
Top Log Interval	1553
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	245 DEG. F
Estimated Cement Top	1759
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	SCOTT ARMSTRONG

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24	16	616
Prot. String				
Production String	4-1/2	11.6	16	7626
Liner				

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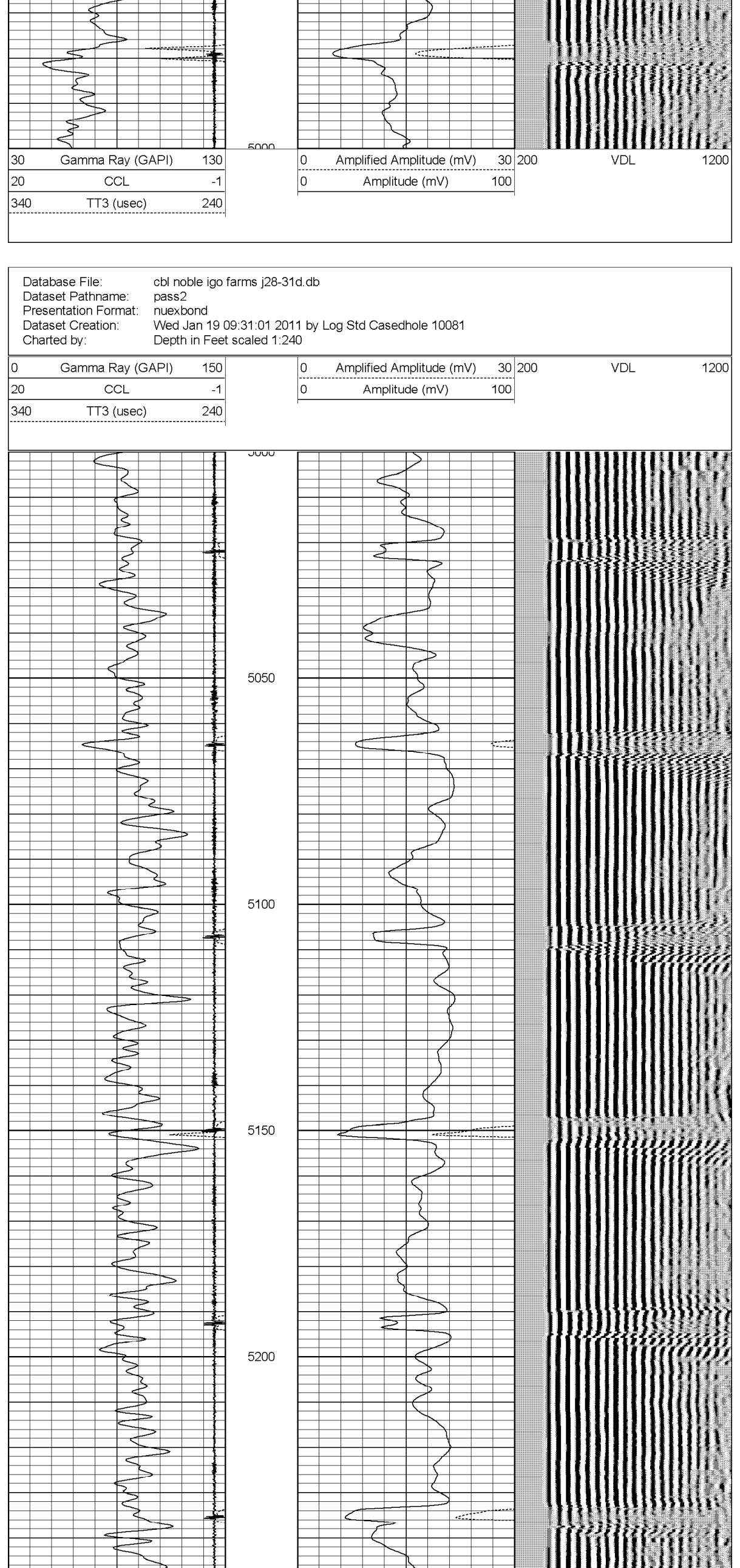
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 NOT CORRELATED, NO OPEN HOLE LOG RAN
4 WELL FROM EAST OF A 4 WELL PAD
37TH ST & 65TH AVE, W.4, S INTO

Database File:	cbl noble igo farms j28-31d.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Wed Jan 19 09:49:59 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

Database File:	cbl noble igo farms j28-31d.db
Dataset Pathname:	pass2
Presentation Format:	nuexbond
Dataset Creation:	Wed Jan 19 09:31:01 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	cbl noble igo farms j28-31d.db
Dataset Pathname:	pass2
Dataset Creation:	Wed Jan 19 09:31:01 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:	Wed Jan 19 09:08:52 2011		
Depth:	500.458	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:	2.494	2.499	V
Gain:	32.342	32.279	
Offset:	0.539	0.538	