J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	NOBLE ENERGY INC.
Well	WELLS RANCH BB 12-06
Field	WATTENBERG
County	WELD
State	COLORADO

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Well WELLS RANCH BB 12-06
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-30149-00
2002' FNL & 1949' FWL
SE NW
SEC. 12 TWP. 5N RGE. 63W
SEC TWP RGE

Other Services
PERF

Permanent Datum GROUND LEVEL Elevation 4652
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4664
D.F. 4663
G.L. 4652

Date	23-JUNE-2009
Run Number	ONE
Depth Driller	6765
Depth Logger	6695
Bottom Logged Interval	6688
Top Log Interval	1770
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	230
Estimated Cement Top	1900
Time Well Ready	---
Time Logger on Bottom	---
Equipment Number	2405/RED
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. QUINTON DOBBINS

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#	SURFACE	554
Prot. String				
Production String	4.5	11.6#	SURFACE	6752
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

LOG CORRELATED TO CD/CN/ML LOG
DATED 15-JUNE-2009

LOG SPLIT FOR CORRELATION PURPOSES

Database File: wells ranch usx bb 12-06.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Jun 23 13:22:27 2009 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

30 GAMMA RAY (GAPI) 130	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12 CCL -2	0 AMPLIFIED AMPLITUDE (mV) 30	

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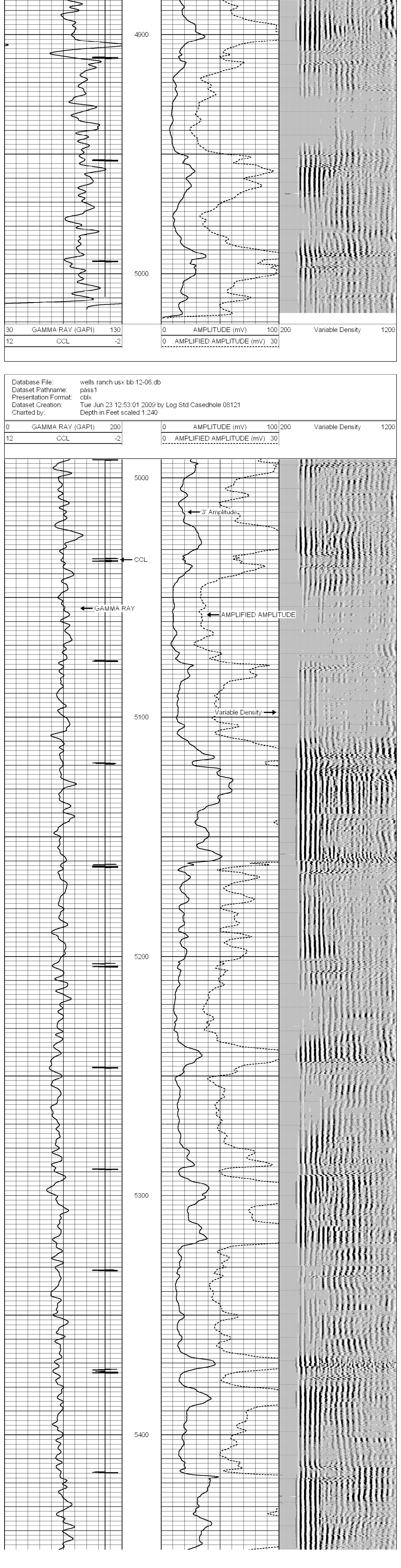
12 CCL -2	0 AMPLIFIED AMPLITUDE (mV) 30	

Database File: wells ranch usx bb 12-06.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Tue Jun 23 12:53:01 2009 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 200	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12 CCL -2	0 AMPLIFIED AMPLITUDE (mV) 30	



5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
Marker Joint
Marker Joint
CCL
GAMMA RAY
3' Amplitude
AMPLIFIED AMPLITUDE
Variable Density
0
GAMMA RAY (GAPI)
200
12
CCL
-2
0
AMPLITUDE (mV)
100
0
AMPLIFIED AMPLITUDE (mV)
30
200
Variable Density
1200