SUPERIOR WELL SERVICES

SUPERIOR STERLING, CO.
UNIT # 3312

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.

Company	NOBLE ENERGY INC.
Well	PETTINGER USX AB35-02
Field	WATTENBERG
County	WELD
State	COLORADO

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Well PETTINGER USX AB35-02
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05.123.33041
501' FNL & 1840' FEL
NW NE
SEC 35 TWP 7N RGE 64W

Other Services

Permanent Datum GL Elevation 4824
Log Measured From KB ---------- 14'
Drilling Measured From KB

Elevation
K.B. 4838
D.F. 4838
G.L. 4824

Date	12.05.2011
Run Number	ONE
Depth Driller	7209
Depth Logger	7118
Bottom Logged Interval	7118
Top Log Interval	1900
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	244° F
Estimated Cement Top	2200
Time Well Ready	MAST UNIT
Time Logger on Bottom	1-11/16NX#4
Equipment Number	3312
Location	STERTLING
Recorded By	LEROY HOBBS
Witnessed By	S. ARMSTRONG

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"	24.00 / J-55	SURFACE	706
Prot. String				
Production String	4-1/2"	11.60 / M-80	SURFACE	7202
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 USING SUPERIOR WELL SERVICES.

CORRECTED TO PSI MIRCO LOG DATED NOVEMBER 20, 2011..

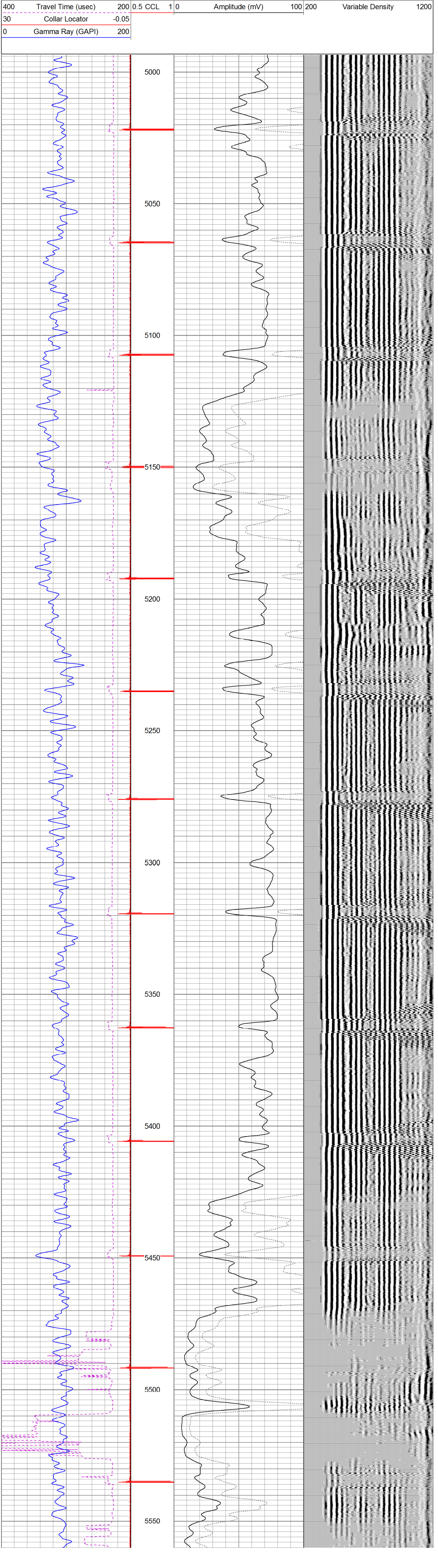
Database File:	pettinggerusxab35-2dcbl.db
Dataset Pathname:	pass2
Presentation Format:	cbl_sr
Dataset Creation:	Mon Dec 05 10:13:37 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

400 Travel Time (usec) 200 | 0.5 CCL 1 | 0 Amplitude (mV) 100 | 200 Variable Density 1200
30 Collar Locator -0.05
30 Gamma Ray (GAPI) 130

400 Travel Time (usec) 200 | 0.5 CCL 1 | 0 Amplitude (mV) 100 | 200 Variable Density 1200
30 Collar Locator -0.05
30 Gamma Ray (GAPI) 130

Database File:	pettinggerusxab35-2dcbl.db
Dataset Pathname:	pass1
Presentation Format:	cbl_sr
Dataset Creation:	Mon Dec 05 09:51:25 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

400 Travel Time (usec) 200 | 0.5 CCL 1 | 0 Amplitude (mV) 100 | 200 Variable Density 1200
30 Collar Locator -0.05
0 Gamma Ray (GAPI) 200



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6600
6650
FLAG
6700
6750
6800
6850
6900
FLAG
6950
7000
7050
7100
Loggers TD @ 7118'
400 Travel Time (usec) 200
30 Collar Locator -0.05
0 Gamma Ray (GAPI) 200
0.5 CCL 1
0 Amplitude (mV) 100
200 Variable Density 1200