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 AB27-01
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well PETTINGER USX AB27-01
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05.123.32944
SHL: 490' FNL & 825' FEL
NENE
SEC 27 TWP 7N RGE 64W

Other Services

Permanent Datum	GL	Elevation	4842	Elevation
Log Measured From	KB	13 FT		K.B. 4855
Drilling Measured From	KB			D.F. 4854
				G.L. 4842

Date	12.10.2011
Run Number	ONE
Depth Driller	7251
Depth Logger	7136
Bottom Logged Interval	7136
Top Log Interval	1850
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	248° F
Estimated Cement Top	2322
Time Well Ready	MAST UNIT
Time Logger on Bottom	1-11/16NX4
Equipment Number	3312
Location	45
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	770
Prot. String				
Production String	4-1/2"	11.60 / M-80	SURFACE	7238.50
Liner				

<<< Fold Here >>>

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.

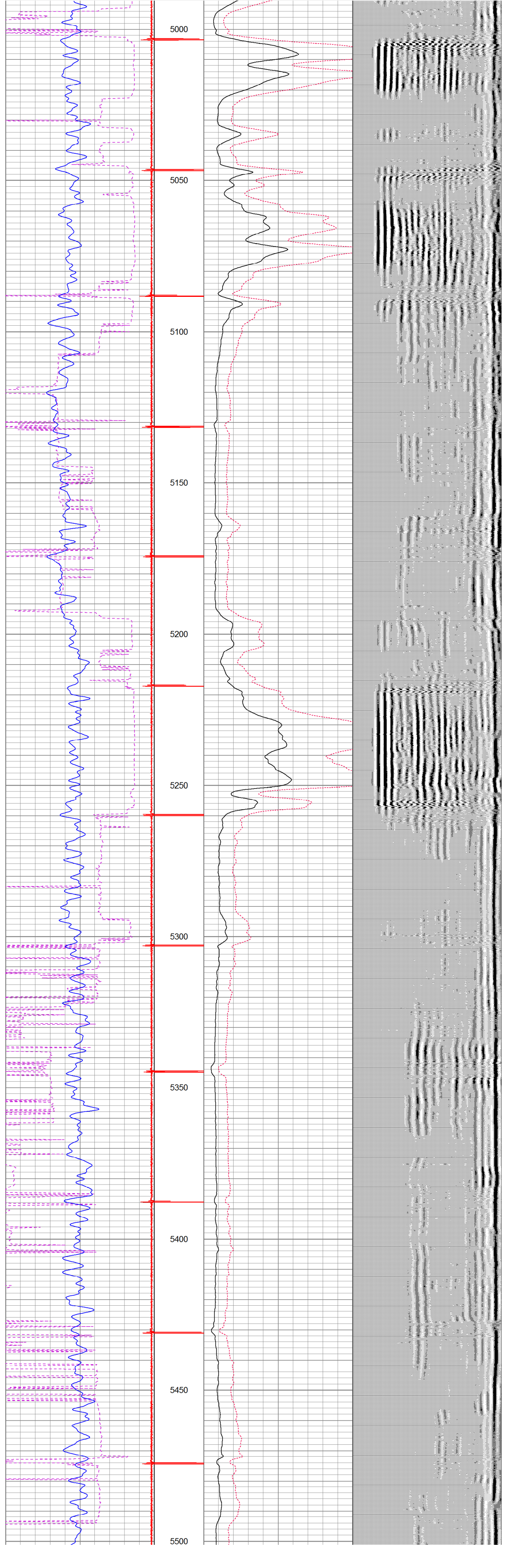
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICES.

CORRECTED UP HOLE EIGHT FOOT TO HALLIBURTONS
TRUE RESISTIVITY LOG DATED 03-DEC-11

Database File:	pettinger27-01cbl.db
Dataset Pathname:	pass2
Presentation Format:	cbl_sr
Dataset Creation:	Sat Dec 10 08:25:44 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

Database File:	pettinger27-01cbl.db
Dataset Pathname:	pass1
Presentation Format:	cbl_sr
Dataset Creation:	Sat Dec 10 08:00:13 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240



5550
5600
5650
5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
FLAG
6750
6800
6850
6900
6950
7000
FLAG
7050
7100
Loggers TD @ 7136'
7150
400 Travel Time (usec) 200
30 Collar Locator -0.5
0 Gamma Ray (GAPI) 200
0.5 CCL 1
0 Amplitude (mV) 100
200 Variable Density 1200