SUPERIOR WELL SERVICES

SUPERIOR
STERLING, CO.
UNIT # 3312

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

Company	NOBLE ENERGY INC.
Well	ZEHNDER B05-23
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well ZEHNDER B05-23
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05.123.32916

1490' FSL & 948' FEL
NE SE

SEC 5 TWP 5N RGE 64W

Other Services

Permanent Datum GL Elevation 4627
Log Measured From KB ------------------ 13 FT
Drilling Measured From KB

Elevation
K.B. 4640
D.F. 4639
G.L. 4627

Date	12.06.2011		
Run Number	ONE		
Depth Driller	7032		
Depth Logger	6914		
Bottom Logged Interval	6914		
Top Log Interval	1275		
Open Hole Size	7-7/8"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	238° F		
Estimated Cement Top	1820		
Time Well Ready	MAST UNIT		
Time Logger on Bottom	1-11/16NX#4		
Equipment Number	3312		
Location	STERLING		
Recorded By	LEROY HOBBS		
Witnessed By	MITCH TRIMBEL		

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	567
Prot. String				
Production String	4-1/2"	11.60 / M-80	SURFACE	7013
Liner				

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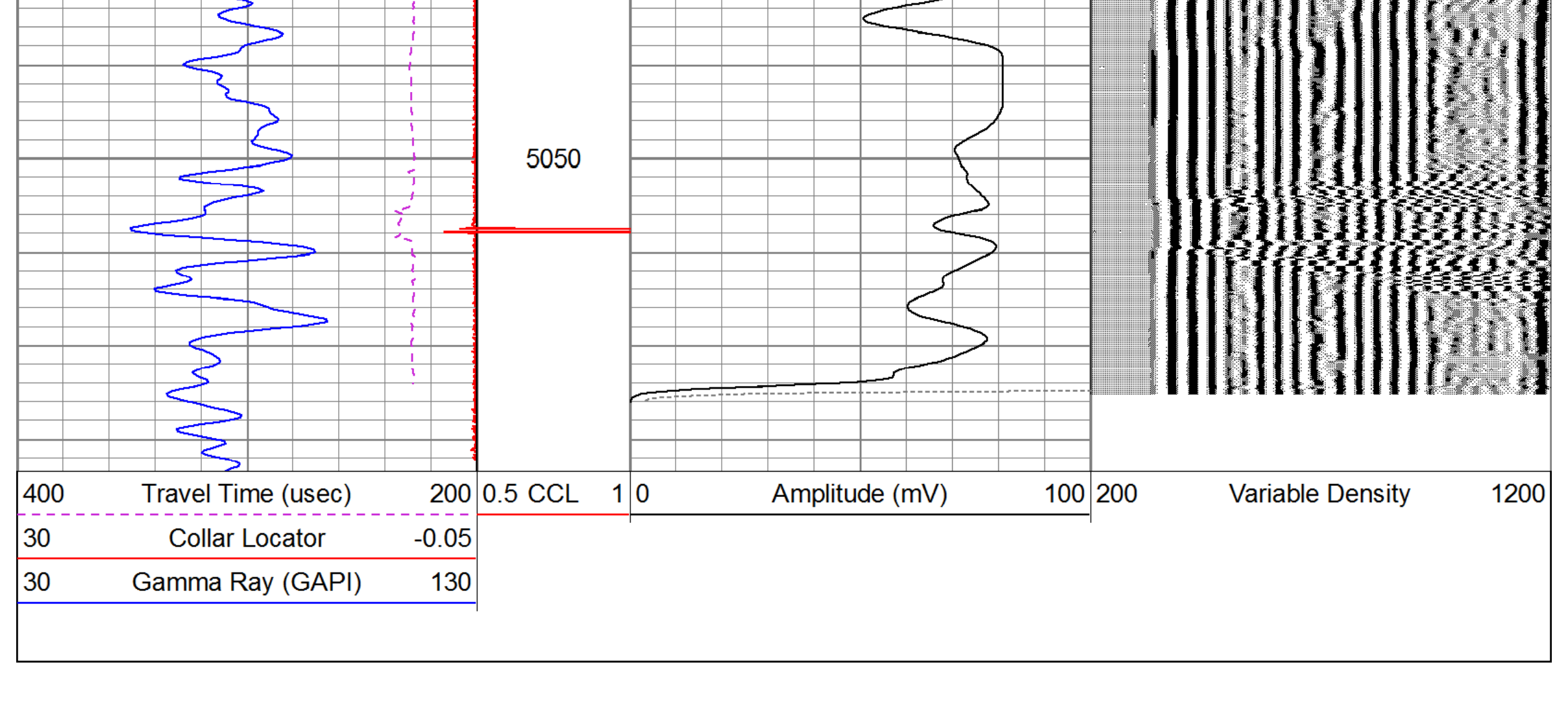
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 UP HOLE 4' TO PSI MIRCO LOG DATED NOVEMBER 27, 2011.

Database File: zehnderb05-23.db
Dataset Pathname: pass2
Presentation Format: cbl_sr
Dataset Creation: Tue Dec 06 13:28:34 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								

Database File: zehnderb05-23.db
Dataset Pathname: pass1
Presentation Format: cbl_sr
Dataset Creation: Tue Dec 06 13:06:08 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								

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								