GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	SCHNEIDER USX II31-12PD
Field	WATTENBERG
County	WELD
State	COLORADO

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Well SCHNEIDER USX II31-12PD
Field WATTENBERG
County WELD State COLORADO

Location: API # : 0512331843
SHL: 837' FSL & 1908' FWL SESW
BHL: 1980' FSL & 660' FWL NWSW
LAT: 40.52582 DEG. LONG: 104.82533 DEG.
SEC 31 TWP 7N RGE 66W

Other Services

Permanent Datum GL Elevation 4906
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4922
D.F. 4921
G.L. 4906

Date	NOVEMBER 29, 2010
Run Number	ONE
Depth Driller	7870
Depth Logger	7786
Bottom Logged Interval	7785
Top Log Interval	1981
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	240 DEG. F
Estimated Cement Top	2239
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				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24	16	871
Prot. String				
Production String	4-1/2	11.6	15.6	7850
Liner				

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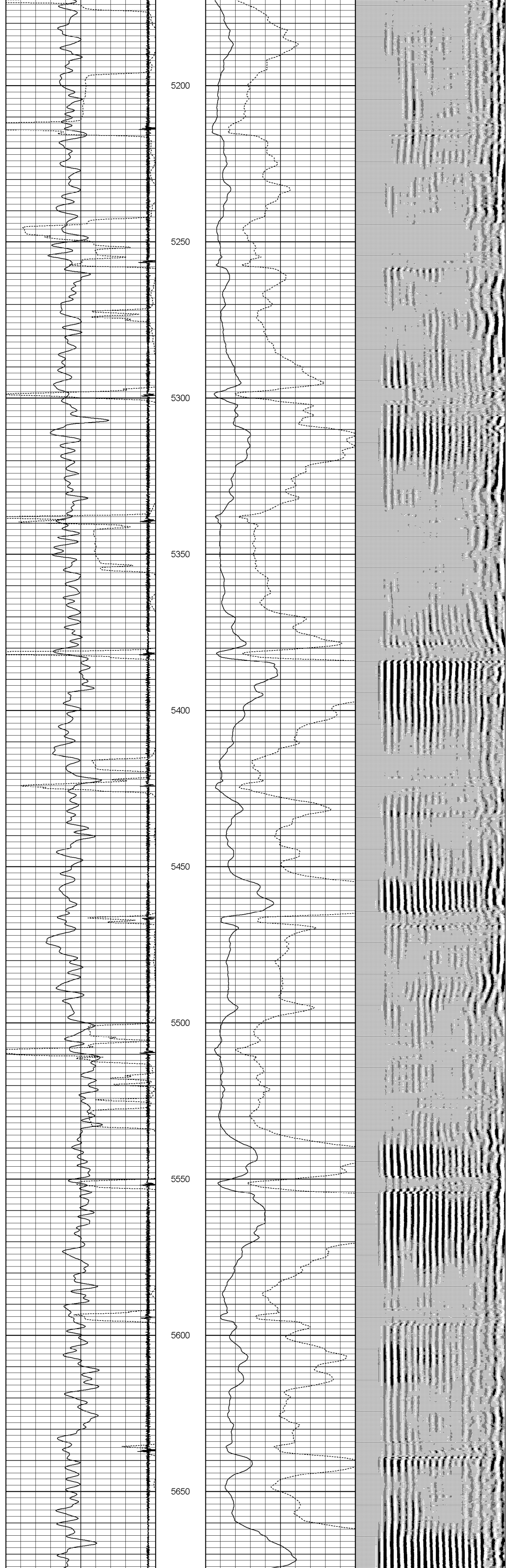
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 CORRELATED TO HALLIBURTON OPEN HOLE LOG DATED 19-NOV-10
WCR 74 & WCR 25, E.5, N/NW.2, S INTO
EAST WELL OF TWO WELL PAD

Database File:	cblschneiderusxii31-12pd.db
Dataset Pathname:	pass4
Presentation Format:	nuexbond
Dataset Creation:	Mon Nov 29 12:13:54 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

Database File:	cblschneiderusxii31-12pd.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Mon Nov 29 11:54:05 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	cblschneiderusxii31-12pd.db
Dataset Pathname:	pass3
Dataset Creation:	Mon Nov 29 11:54:05 2010 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:	Mon Nov 29 11:36:57 2010	
Depth:	1144.075	ft
Casing Diameter:	4.500	in

	3' Spacing	5' Spacing	
Signal Zero:	0.300	0.300	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	0.008	0.008	V
Reading in Free Pipe:	2.493	2.499	V
Gain:	32.552	32.481	
Offset:	0.034	0.034	