J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company NOBLE ENERGY INC.
Well PEPPLER PC AA 17-20
Field WATTENBERG
County WELD
State COLORADO

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Well PEPPLER PC AA 17-20
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05-123-32266-00
2465' FSL & 1410' FWL
NE SW
SEC. 17 TWP. 6N RGE. 63W
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4671
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4685
D.F. 4684
G.L. 4671

Date	09-FEBUARY-2011
Run Number	ONE
Depth Driller	7040
Depth Logger	6936
Bottom Logged Interval	6929
Top Log Interval	1430
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	235
Estimated Cement Top	1540
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/YELLOW
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR.MITCH TRIMBLE

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	577
Prot. String				
Production String	4.5	11.6#	SURFACE	7022
Liner				

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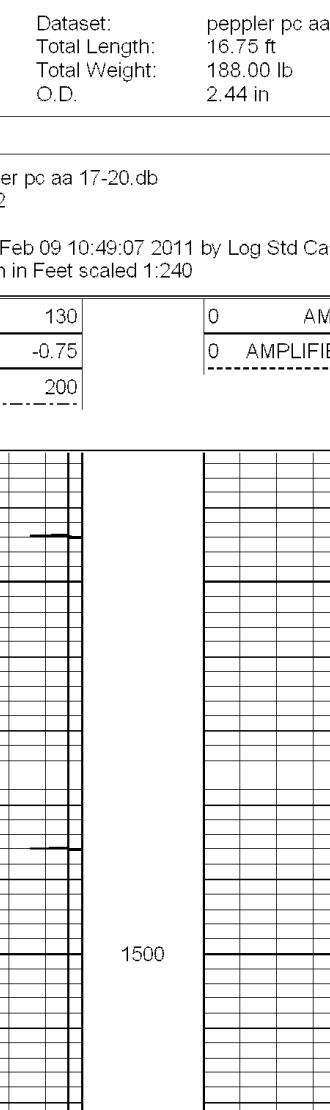
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 29-JANUARY-2011

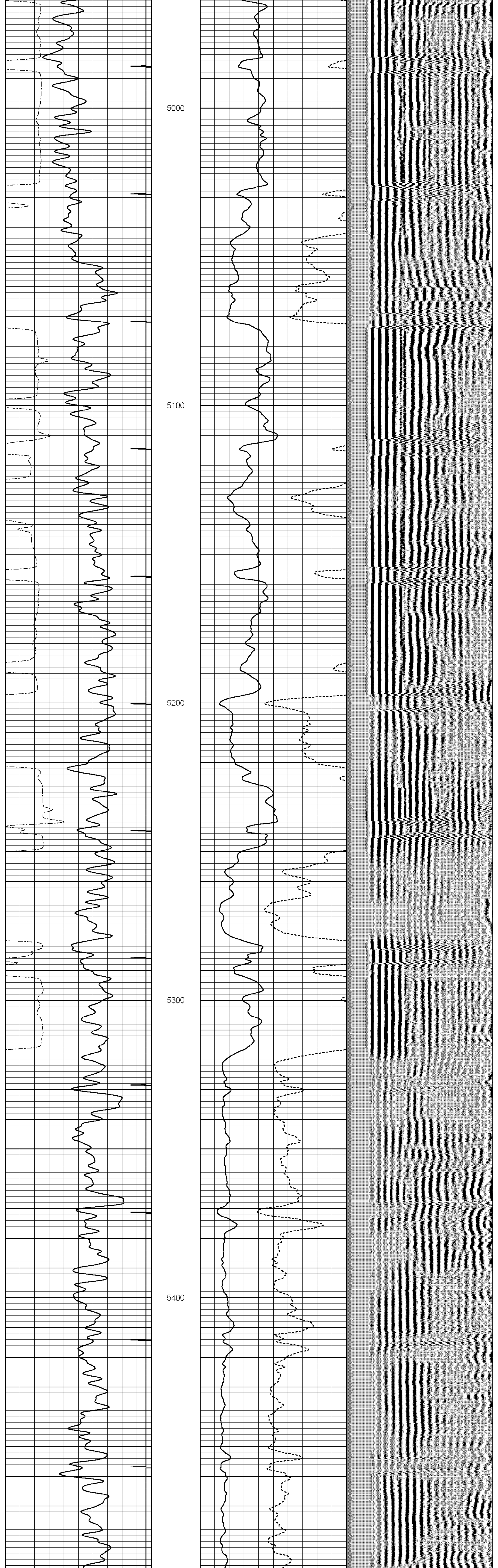
LOG SPLIT FOR CORRELATION PURPOSES



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-A (1)	3.00	1.69	10.00
CCL	13.25	CCL-GR_1_3/8 (001) 1 3/8 titan ccl	1.00	1.38	11.00
GR	11.49	GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34	CBL-3_5 (001)	7.23	2.44	127.00
		CENT-B (2)	3.00	1.69	10.00

Dataset: peppler pc aa 17-20.db: field/well/run1/pass2
Total Length: 16.75 ft
Total Weight: 188.00 lb
O.D. 2.44 in

Database File: peppler pc aa 17-20.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Wed Feb 09 10:49:07 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



Database File: peppler pc aa 17-20.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Wed Feb 09 10:27:07 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: peppler pc aa 17-20.db
Dataset Pathname: pass2
Dataset Creation: Wed Feb 09 10:49:07 2011 by Log Std Casedhole 08121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Wed Feb 09 10:12:02 2011		
Depth:	1434.65	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	3	3	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.04	0	V
Reading in Free Pipe:	2.5	1.98374	V
Gain:	31.787	39.4185	
Offset:	1.72852	3	

Gamma Ray Calibration Report

Serial Number:	t001	
Tool Model:	s_t001	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps