NABORS
COMPLETION & PRODUCTION SERVICES CO.

Gamma Ray, Cement Bond, Variable Density, CCL

Company Noble Energy
Well Gemini K 01-11
Field Wattenberg
County Weld
State Colo
Country USA

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Well	Gemini K 01-11
Field	Wattenberg
County	Weld
State	Colo
Country	USA

Location: API # : 05-123-15177

NE / SW

SEC 1 TWP 4N RGE 66W

Other Services

Permanent Datum	Ground Level	Elevation	4685'
Log Measured From	Kelley Bushing		
Drilling Measured From	Kelley Bushing		

Elevation
K.B. 4695'
D.F. 4694'
G.L. 4685'

Date	June 14, 2013		
Run Number	1		
Depth Driller	7303'		
Depth Logger	1000'		
Bottom Logged Interval	1000'-0'		
Top Log Interval			
Open Hole Size			
Type Fluid	water		
Density / Viscosity			
Max. Recorded Temp.	n/a		
Estimated Cement Top			
Time Well Ready			
Time Logger on Bottom			
Equipment Number	3312 1 11/16 tit		
Location	WCRs35+48,N3/10,E3/10,N+Winto		
Recorded By	Jake Meisner		
Witnessed By	Pete Burns		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	3.5"			
Liner				

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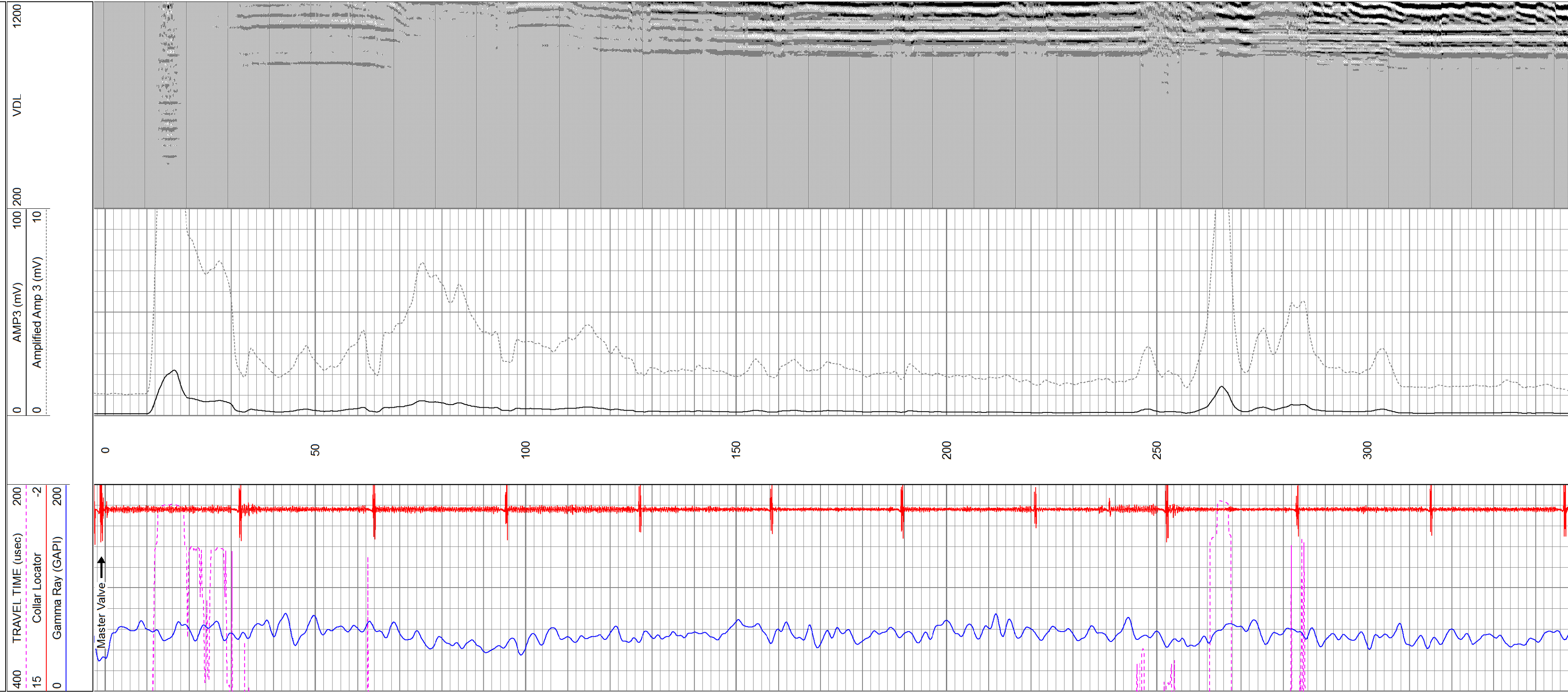
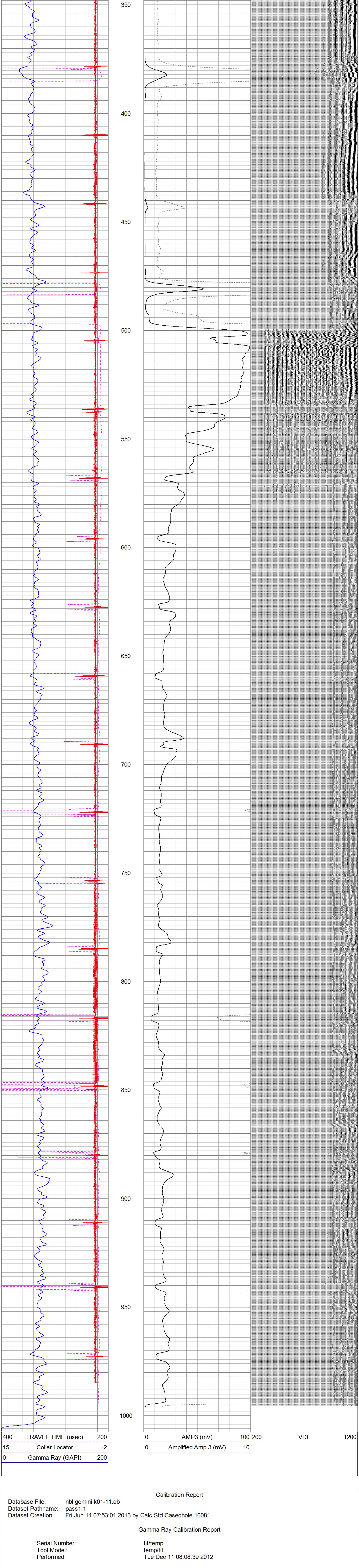
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Logged Annular Fill
Thanks For Choosing Nabors!

Database File:	nbl gemini k01-11.db
Dataset Pathname:	pass1.1
Presentation Format:	cbl_drs
Dataset Creation:	Fri Jun 14 07:53:01 2013 by Calc Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File:	nbl gemini k01-11.db
Dataset Pathname:	pass1.1
Dataset Creation:	Fri Jun 14 07:53:01 2013 by Calc Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Tue Dec 11 08:08:39 2012	
Calibrator Value:	0.8	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01	
Tool Model:	TEKCO-1x2	
Performed:	Fri Jun 14 07:32:18 2013	
Depth:	543	ft
Casing Diameter:	3.5	in

	3' Spacing	5' Spacing	
Signal Zero:	1.2	0	mV
Calibrated Amplitude:	94.5169	94.5169	mV
Reading at Signal Zero:	-0.0098	-0.00739746	V
Reading in Free Pipe:	1.73645	0.373413	V
Gain:	53.4385	248.199	
Offset:	1.7237	1.83604	