NABORS
COMPLETION & PRODUCTION SERVICES CO.

RADIAL BOND LOG
GAMMA RAY C C L
V D L

Company	NOBLE ENERGY INC.
Well	GURTLER H24-99HZ
Field	WATTENBERG
County	WELD
State	COLORADO

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Field WATTENBERG
County WELD **State** COLORADO

Location: API #: 05123326470000
BHL: 1320' FSL & 460' FWL
NE SE
Other Services

SEC 24 TWP 3N RGE 65W

Permanent Datum	GL	Elevation 4801	Elevation K.B. 4814 D.F. 4814 G.L. 4801
Log Measured From	KB 13'		
Drilling Measured From	KB		

Date	December 15, 2012	
Run Number	One	
Depth Driller	11118	
Depth Logger	5519	
Bottom Logged Interval	5518	
Top Log Interval	Surface	
Casing Size	7.00"	
Type Fluid	Water	
Max. Recorded Temp.	189 deg F	
Estimated Cement Top	430 est.	
Time Well Ready	Bohler Rig	
Time Logger On Bottom	PM	
Unit Number	4367	
Tool Size / ID Number	2.75 Probe 101020	2.75 Probe 110785
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	T. Mathias	

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36 lb/ft	Surface	688
Prot. String				
Production String	7.00"	26 lb/ft	Surface	7269
Liner	4.50"	11.6 lb/ft	5562	11118

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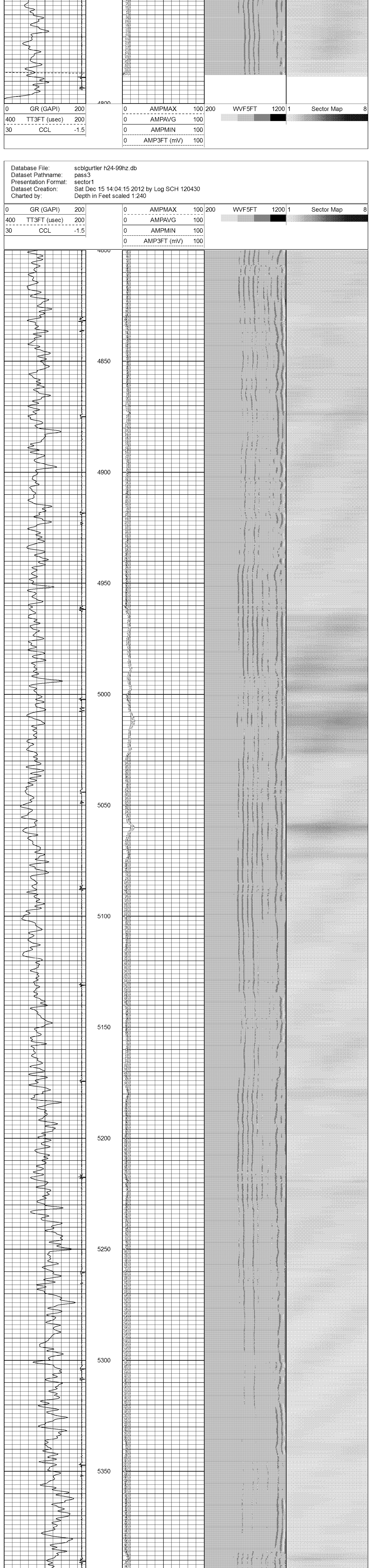
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Nabors Completion and Production Services CO!!!
Wireline Zero @ 13' KB
LOG NOT CORRELATED!
Directions: 49 & 30, W 2/10, N Into

Database File:	scblgurtler h24-99hz.db
Dataset Pathname:	pass4
Presentation Format:	sector1
Dataset Creation:	Sat Dec 15 14:11:19 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Database File: scblgurtler h24-99hz.db
Dataset Pathname: pass3
Presentation Format: sector1
Dataset Creation: Sat Dec 15 14:04:15 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: scblgurtler h24-99hz.db
Dataset Pathname: pass4
Dataset Creation: Sat Dec 15 14:11:19 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Sat Dec 15 14:24:01 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5000			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 101020
Tool Model: Probe

Calibration Casing Diameter: 7.000 in
Calibration Depth: 353.808 ft

Master Calibration, performed Sat Dec 15 13:29:03 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	1.019	0.900	62.165	59.428	1.609
CAL	-0.012	1.463				
5'	-0.012	1.214	0.900	62.165	49.956	1.499
SUM						
S1	-0.012	1.147	0.000	62.165	53.623	0.649
S2	-0.012	1.145	0.000	62.165	53.732	0.640
S3	-0.012	1.079	0.000	62.165	56.973	0.686
S4	-0.012	0.965	0.000	62.165	63.630	0.760
S5	-0.012	0.859	0.000	62.165	71.380	0.860
S6	-0.012	0.852	0.000	62.165	71.926	0.860
S7	-0.012	0.976	0.000	62.165	62.917	0.753
S8	-0.012	1.110	0.000	62.165	55.408	0.670

Internal Reference Calibration, performed Sat Dec 15 13:27:13 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.012	1.463	1.000	0.000

Air Zero Calibration, performed Sat Dec 15 12:29:23 2012:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000