NABORS COMPLETION & PRODUCTION SERVICES CO.

Gamma Ray, Cement Bond, Variable Density, CCL

Company	Petroleum Developement Corporation
Well	Don Anderson #1
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

Location: API #:

SEC 34 TWP RGE

Permanent Datum	Ground Level	Elevation	
Log Measured From	Kelly Bushing		K.B.
Drilling Measured From	Kelly Bushing		D.F.
			G.L.

Other Services

Elevation

Date	January 12, 2014
Run Number	1
Depth Driller	n/a
Depth Logger	200'
Bottom Logged Interval	200'-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 tlt
Location	WCRs33+76,W6/10,S2/10,Wnto
Recorded By	Jake Meisner
Witnessed By	Phil Alvarado

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Wgt/Ft	Size	Top	Weight	From	To	Bottom

Casing Record

Surface String	
Prot. String	
Production String	10-3/4"
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 Nabors

Calibration Report

Database File: pdcdonanderson1.db
Dataset Pathname: pass2.2
Dataset Creation: Sun Jan 12 00:31:48 2014 by Calc Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	234GR-328	
Tool Model:	TekcoGR	
Performed:	Wed Apr 04 10:51:46 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234B35C-8013	
Tool Model:	TEKCO	
Calibration Casing Diameter:	10.750	in
Calibration Depth:	102.558	ft

Master Calibration, performed Sun Jan 12 00:23:31 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.416	0.800	47.965	115.602	-0.130
CAL	0.008	0.619				
5'	0.008	0.105	0.800	47.965	484.974	-2.888
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Mon Apr 18 12:58:32 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.619	1.000	0.000

Air Zero Calibration, performed Mon Apr 18 12:13:39 2011:

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

Database File: pdcdonanderson1.db
Dataset Pathname: pass2.2
Presentation Format: scbl_dr
Dataset Creation: Sun Jan 12 00:31:48 2014 by Calc Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	150						
0	Line Speed (ft/min)	100						

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0	Gamma Ray (GAPI)	150						
0	Line Speed (ft/min)	100						