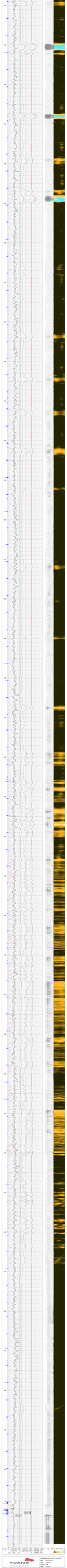

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Radial Cement Bond Log With VDL / CCL / GR And Cement Map

Company	Anadarko Petroleum Corporation
Well	NRC 27C-8HZ
Field	Wattenberg
County	Weld
State	Colorado

Company Anadarko Petroleum Corporation
Well NRC 27C-8HZ
Field Wattenberg
County Weld State Colorado
API #: 05-123-39094
Location: 350' FSL & 1750' FEL
SEC 8 TWP 1N RGE 67W

Other Services: None

Permanent Datum	Ground Level	Elevation 5064'	Elevation
Log Measured From	Kelly Bushing		K.B. 5089'
Drilling Measured From	KB = 25'		D.F. 5088'
			G.L. 5064'

Date	13 June 2014
Run Number	One
Depth Driller	12980'
Depth Logger	7180'
Bottom Logged Interval	7177'
Top Log Interval	Surface
Open Hole Size	UNK
Type Fluid	Water
Density / Viscosity	~8.34 #/Gal
Max. Recorded Temp.	N/A
Estimated Cement Top	See Log
Time Well Ready	9:00
Time Logger on Bottom	9:45
Equipment Number	P-96
Location	Fort Morgan
Recorded By	L. Mavros
Witnessed By	K. Evers

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	Surface	1227'
Prot. String				
Production String	7"	26	Surface	8212'
Liner	4.5"	11.6	7087'	12970'

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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

No Other Log for Correlation

Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CSS_MID	2.79	3.00	36.00
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 10.63	RBT-Probe (130433) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
		PTS275	2.83	2.75	
CCL GR	3.63 2.30	GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00

Dataset: nrc_27c_8hz_anadarko.db: field/well/rcbl1/pass3
Total Length: 19.08 ft
Total Weight: 226.00 lb
O.D. 3.00 in

Calibration Report

Database File: nrc_27c_8hz_anadarko.db
Dataset Pathname: rcbl1/pass3
Dataset Creation: Fri Jun 13 09:45:33 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number: 111211
Tool Model: Probe
Performed: Mon May 19 14:35:03 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 130433
Tool Model: Probe

Calibration Casing Diameter: 7.000 in
Calibration Depth: 225.933 ft

Master Calibration, performed Fri Jun 13 09:18:45 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	2.133	1.000	62.165	28.877	0.581
CAL	0.015	0.464				
5'	0.015	2.221	1.000	62.165	27.721	0.588
SUM						
S1	0.015	2.101	0.000	100.000	47.931	-0.707
S2	0.015	2.172	0.000	100.000	46.351	-0.680
S3	0.015	2.184	0.000	100.000	46.088	-0.678
S4	0.015	2.157	0.000	100.000	46.670	-0.685
S5	0.015	2.117	0.000	100.000	47.576	-0.726
S6	0.015	2.083	0.000	100.000	48.356	-0.733
S7	0.015	2.066	0.000	100.000	48.754	-0.728
S8	0.014	2.090	0.000	100.000	48.176	-0.694

Internal Reference Calibration, performed Wed Dec 31 18:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.015	0.464	1.000	0.000

Air Zero Calibration, performed Fri Jun 13 09:18:07 2014:

	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

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MAIN LOG PASS

5" = 100'

Database File: nrc_27c_8hz_anadarko.db
Dataset Pathname: rcbl1/pass3
Presentation Format: scbl02
Dataset Creation: Fri Jun 13 09:45:33 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

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Company	Anadarko Petroleum Corporation
Well	NRC 27C-8HZ
Field	Wattenberg
County	Weld
State	Colorado