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Pioneer Energy Services

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

Company	Anadarko Petroleum Corporation
Well	SPOTTED 4C-23HZ
Field	Wattenberg
County	Weld
State	Colorado

Company Anadarko Petroleum Corporation
Well SPOTTED 4C-23HZ
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-39430
1' FNL & 685' FWL, SWSW
SEC 23 TWP 2N RGE 67W

Other Services
None

Permanent Datum	Ground Level	Elevation 4966'	Elevation
Log Measured From	Kelly Bushing		K.B. 4991'
Drilling Measured From	25'		D.F. 4990'
			G.L. 4966'

Date	12 JULY 2014
Run Number	One
Depth Driller	12784'
Depth Logger	6970'
Bottom Logged Interval	6970'
Top Log Interval	Surface
Open Hole Size	UNK
Type Fluid	Water
Density / Viscosity	~8.34 #/Gal
Max. Recorded Temp.	NA
Estimated Cement Top	SEE LOG
Time Well Ready	09:00
Time Logger on Bottom	9:30
Equipment Number	P-96
Location	Fort Morgan
Recorded By	T. REESE
Witnessed By	DONNIE

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	1316'
Prot. String				
Production String	7"	26	Surface	7997'
Liner	4.5"	11.6	6889'	12703'

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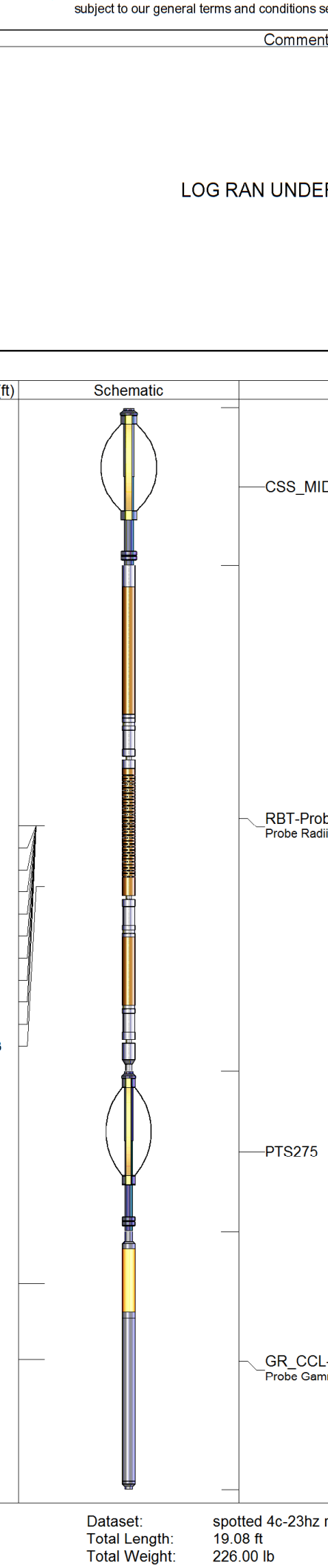
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 RAN UNDER 2800 PSI

Sensor	Offset (ft)	Schematic	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: spotted 4c-23hz rcbl.db: field/well/run1/pass3
Total Length: 19.08 ft
Total Weight: 226.00 lb
O.D. 3.00 in

Calibration Report

Database File: spotted 4c-23hz rcbl.db
Dataset Pathname: pass3
Dataset Creation: Sat Jul 12 09:33:28 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	111211	
Tool Model:	Probe	
Performed:	Mon May 19 13:35:03 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:	210.408	ft

Master Calibration, performed Sat Jul 12 08:48:55 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	1.517	1.000	62.165	40.712	0.395
CAL	0.015	0.319				
5'	0.015	1.543	1.000	62.165	40.021	0.403
SUM						
S1	0.015	1.528	0.000	100.000	66.123	-1.006
S2	0.015	1.577	0.000	100.000	64.020	-0.953
S3	0.015	1.541	0.000	100.000	65.537	-0.988
S4	0.015	1.507	0.000	100.000	67.020	-1.030
S5	0.015	1.493	0.000	100.000	67.647	-1.026
S6	0.015	1.470	0.000	100.000	68.735	-1.008
S7	0.015	1.471	0.000	100.000	68.667	-1.029
S8	0.015	1.506	0.000	100.000	67.083	-1.004

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.015	0.319	1.000	0.000

Air Zero Calibration, performed Mon Jun 16 13:41:42 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 PASS WELL LOGGED UNDER 2800 PSI

Database File: spotted 4c-23hz rcbl.db
Dataset Pathname: pass3
Presentation Format: scbl02
Dataset Creation: Sat Jul 12 09:33:28 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

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Company	Anadarko Petroleum Corporation
Well	SPOTTED 4C-23HZ
Field	Wattenberg
County	Weld
State	Colorado