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Pioneer Energy Services

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

Company	Anadarko Petroleum Corporation
Well	BERRY FARMS 32C-8HZ
Field	Wattenberg
County	Weld
State	Colorado

Company Anadarko Petroleum Corporation
Well BERRY FARMS 32C-8HZ
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-38897
1397' FNL & 300' FEL, SENE
SEC 8 TWP 3N RGE 67W

Other Services
None

Permanent Datum Ground Level Elevation 4821'
Log Measured From Kelly Bushing
Drilling Measured From 13'

Elevation
K.B. 4834'
D.F. 4833'
G.L. 4821'

Date	27 June 2014				
Run Number	One				
Depth Driller	12041'				
Depth Logger	6516'				
Bottom Logged Interval	6516'				
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	15:00				
Time Logger on Bottom	15:30				
Equipment Number	P-96				
Location	Fort Morgan				
Recorded By	T. REESE				
Witnessed By	TREVOR				

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	815'
Prot. String				
Production String	7"	26	Surface	7548'
Liner	4.5"	11.6	6452'	11852'

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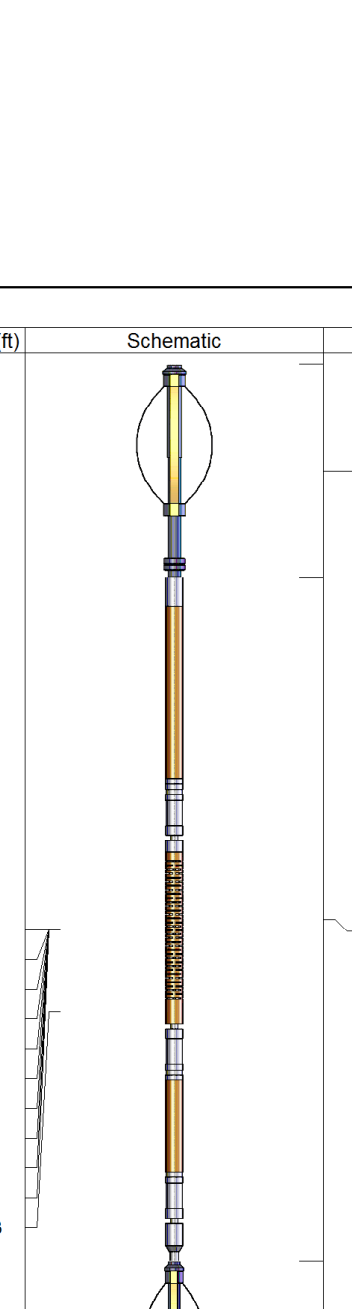
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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



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: berry farms 32c-8hz.db: field/well/run1/pass2
Total Length: 19.08 ft
Total Weight: 226.00 lb
O.D. 3.00 in

Calibration Report

Database File: berry farms 32c-8hz.db
Dataset Pathname: pass2
Dataset Creation: Fri Jun 27 15:38:42 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:	5987.800	ft

Master Calibration, performed Fri Jun 27 12:50:30 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	1.787	1.000	62.165	34.512	0.478
CAL	0.015	0.512				
5'	0.015	1.396	1.000	62.165	44.298	0.332
SUM						
S1	0.015	1.661	0.000	100.000	60.745	-0.907
S2	0.015	1.688	0.000	100.000	59.770	-0.902
S3	0.015	1.755	0.000	100.000	57.460	-0.869
S4	0.015	1.816	0.000	100.000	55.529	-0.840
S5	0.015	1.854	0.000	100.000	54.394	-0.839
S6	0.015	1.875	0.000	100.000	53.756	-0.799
S7	0.015	1.789	0.000	100.000	56.355	-0.830
S8	0.015	1.703	0.000	100.000	59.236	-0.866

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	0.512	1.000	0.000

Air Zero Calibration, performed Mon Jun 16 14:41:42 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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Database File: berry farms 32c-8hz.db
Dataset Pathname: pass2.1
Presentation Format: scbl02
Dataset Creation: Fri Jun 27 16:42:53 2014 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

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Field	Wattenberg
County	Weld
State	Colorado