Radial Cement Bond Log With Gamma Ray/CCL/VDL And Cement Map

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Pioneer Energy Services

Company ANADARKO PETROLEUM CORPORATION
Well D & C Farms 13C-33HZ
Field Wattenberg
County Weld
State Colorado

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Location: API #: 05-123-37889
SHL: 501' FSL & 1488' FWL
SESW
SEC 28 TWP 1N RGE 67W

Other Services
3.75"
JB/GR
Caliper

Permanent Datum Ground Level Elevation 5008'
Log Measured From Kelly Bushing 16' A.P.D.
Drilling Measured From Kelly Bushing

Elevation
K.B. 5024'
D.F. 5023'
G.L. 5008'

Date	23-Nov-2013
Run Number	Three
Depth Driller	13,010'
Depth Logger	7300'
Bottom Logged Interval	7298'
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	Water
Density / Viscosity	8.34ppg
Max. Recorded Temp.	NR
Estimated Cement Top	1006'
Time Well Ready	On Arrival
Time Logger on Bottom	10:00
Equipment Number	53
Location	Fort Morgan
Recorded By	Bruce Miller
Witnessed By	Mr. Kent 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	1023'
Prot. String				
Production String	7"	26#	Surface	8256'
Liner	4.5"	11.6#	7222'	12,995'

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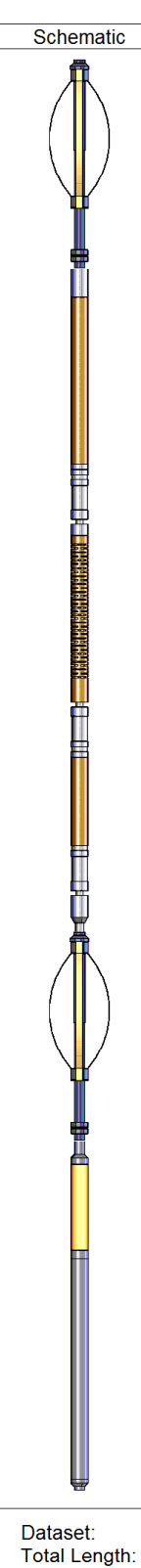
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

SO# 205325

THANK YOU FOR USING PIONEER ENERGY!



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		PTS275	2.83	2.75	
WVF3FT	11.86	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.86				
WVFS1	11.86				
WVFS2	11.86				
WVFS3	11.86				
WVFS4	11.86				
WVFS5	11.86				
WVFS6	11.86				
WVFS7	11.86				
WVFS8	11.86				
WVF5FT	10.78				
		PTS275	2.83	2.75	
CCL	3.84				
TEMP	3.14				
GR	2.30	GCT-GRCCLTEMP (130608) Probe GCT	4.69	2.75	100.00

Dataset: d&c_farms_13c-33hz.db: field/well/run3/pass4
Total Length: 19.27 ft
Total Weight: 190.00 lb
O.D. 2.75 in

Main Pass

Logged With 2800 PSI Applied At Surface

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Database File: d&c_farms_13c-33hz.db
Dataset Pathname: run3/pass4
Presentation Format: scbl02
Dataset Creation: Sat Nov 23 12:03:09 2013 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: d&c_farms_13c-33hz.db
Dataset Pathname: run3/pass4
Dataset Creation: Sat Nov 23 12:03:09 2013 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number:	130608	
Tool Model:	GRCCLTEMP	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Temperature Calibration Report

Serial Number: 130608
Tool Model: GRCCLTEMP
Performed: Thu Aug 15 07:56:46 2013

	Reference	Reading
Low Reference:	100.00 degF	6509.65degF
High Reference:	350.00 degF	27350.70degF

Gain: 0.01
Offset: 21.91
Delta Spacing 1

Segmented Cement Bond Log Calibration Report

Serial Number:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	2886.908	ft

Master Calibration, performed Sat Nov 23 11:04:39 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.014	0.640	2.000	62.165	78.942	3.295
CAL	1.000	1.005				
5'	0.164	0.735	2.000	62.165	105.511	-15.344
SUM						
S1	-0.068	0.653	0.000	95.000	119.782	8.902
S2	-0.077	0.656	0.000	95.000	117.657	9.925
S3	-0.042	0.647	0.000	95.000	125.870	5.787
S4	-0.030	0.638	0.000	95.000	130.328	4.243
S5	-0.043	0.643	0.000	95.000	126.405	5.983
S6	-0.047	0.653	0.000	95.000	123.855	6.333
S7	-0.030	0.654	0.000	95.000	126.986	4.142
S8	-0.077	0.656	0.000	95.000	117.614	10.017

Internal Reference Calibration, performed Wed Aug 21 11:08:58 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.000	1.005	1.000	0.000

Air Zero Calibration, performed Sat Nov 09 07:23:33 2013:

	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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