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Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	ANADARKO PETROLEUM CORP.
Well	BERRY FARMS 31C-8HZ
Field	WATTENBERG
County	WELD
State	CO

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Field WATTENBERG
County WELD State CO
Location: API #: 512338896000
1337' FNL & 300' FEL
SEC 8 TWP 3N RGE 67W

Other Services: NONE

Permanent Datum	GL	Elevation 4822'	Elevation
Log Measured From	KB 13'		K.B. 4834'
Drilling Measured From	KB		D.F. 4835'
			G.L. 4821'

Date	6-27-14
Run Number	ONE
Depth Driller	11919'
Depth Logger	6636'
Bottom Logged Interval	6636'
Top Log Interval	SURFACE
Open Hole Size	8 7/8"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	704'
Time Well Ready	ROA
Time Logger on Bottom	PM
Equipment Number	109
Location	FORT MORGAN
Recorded By	JOHN HOLLIS
Witnessed By	MR. TREVOR DANIEL

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	7"	26#		
Prot. String				
Production String	4.5"	11.6#	SURFACE	7546'
Liner			6596'	11903'

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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.

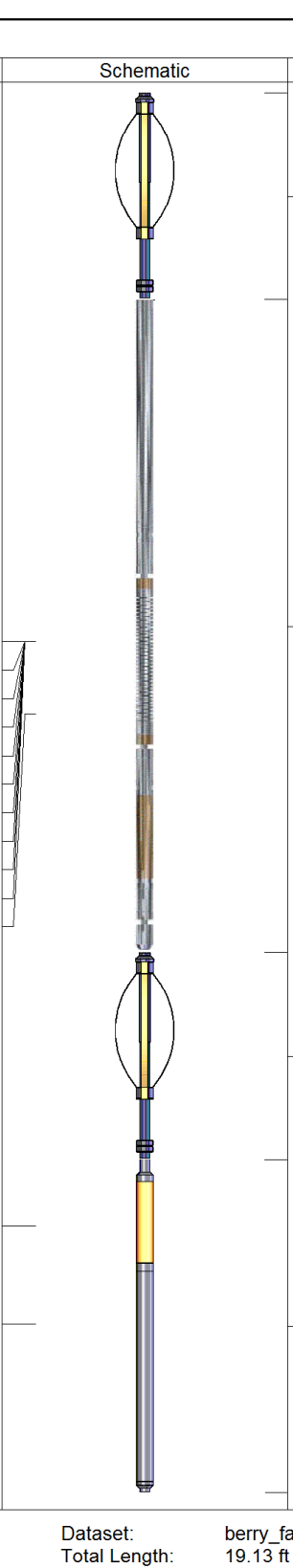
Comments

S.O.#2-260070

CORRELATED TO LINER TOP OT 6596'

E
N O X O O O S
W

THANK YOU FOR USING PIONEER ENERGY SERVICES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.63 11.63 11.63 11.63 11.63 11.63 11.63 11.63 11.63 11.63 10.63		RBT-Probe (4.5040904) Prototype Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			PTS275	2.83	2.75	
CCL	3.63					
GR	2.30		GR-Probe275 (030606)	4.54	2.75	57.00

Dataset: berry_farms_31c_8hz_rbl.db: field/well/run1/pass4.1
Total Length: 19.13 ft
Total Weight: 147.00 lb
O.D. 2.75 in

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Main Pass

Database File: berry_farms_31c_8hz_rbl.db
Dataset Pathname: pass4.1
Presentation Format: scbl02
Dataset Creation: Fri Jun 27 17:16:57 2014 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: berry_farms_31c_8hz_rbl.db
Dataset Pathname: pass4.1
Dataset Creation: Fri Jun 27 17:16:57 2014 by Calc SCH 120430

Gamma Ray Calibration Report

Serial Number:	030606	
Tool Model:	Probe275	
Performed:	Tue Jan 18 15:14:42 2005	
Calibrator Value:	138.0	GAPI
Background Reading:	35.9	cps
Calibrator Reading:	244.8	cps
Sensitivity:	0.8607	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	4.5040904	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	587.370	ft

Master Calibration, performed Fri Jun 27 17:16:53 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.833	1.000	62.165	73.632	0.845
CAL	0.000	1.177				
5'	-0.039	0.826	1.000	62.165	70.753	3.733
SUM						
S1	-0.007	0.930	0.000	100.000	106.733	0.707
S2	0.015	0.948	0.000	100.000	107.217	-1.642
S3	0.021	0.969	0.000	100.000	105.513	-2.196
S4	0.001	0.930	0.000	100.000	107.709	-0.154
S5	-0.015	0.935	0.000	100.000	105.235	1.618
S6	-0.007	0.907	0.000	100.000	109.455	0.777
S7	-0.010	0.881	0.000	100.000	112.283	1.118
S8	-0.010	0.884	0.000	100.000	111.947	1.066

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	0.000	1.177	1.000	0.000

Air Zero Calibration, performed Thu Feb 23 11:04:07 2012:

	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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County	WELD
State	CO