PIONEER
Pioneer Energy Services

CEMENT BOND LOG WITH GAMMA RAY

Company	Anadarko Petroleum Corp.
Well	Pioneer 33-2
Field	Wattenberg
County	Weld
State	CO

Company **Anadarko Petroleum Corp.**
Well **Pioneer 33-2**
Field **Wattenberg**
County **Weld** State **CO**

Location: API # : 05-123-30382
E E24
NWSW
SEC 2 TWP 2N RGE 65

Other Services

			Elevation
Permanent Datum	Ground Level	Elevation 4848	K.B. 4865
Log Measured From	Kelly Bushing		D.F. 4866
Drilling Measured From	Kelly Bushing		G.L. 4848

Date of Service	Jan, 1st 2015		
Run Number	1		
Depth Driller or PBTD	7350'		
Depth Logger	1650'		
Bottom Log Interval	1650'		
Top Log Interval	500'		
Open Hole Size	12.25"		
Type Fluid	Water		
Fluid Level	Full		
Fluid Density	N/A		
Max. Recorded Temperature	N/A		
Max. Wellhead Pressure	0 Deg.		
Wellhead Connection			
Estimated Cement Top	662		
Unit Number	59		
Wireline Size	9/32		
Location	Fort Morgan		
Recorded By	Cody Nelson		
Witnessed By	Mr. Terry Hollingsworth		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8.63	24	Surface	839'
Production Casing	4.5	11.60	Surface	7350'
Liner Record				

<<< Fold Here >>>

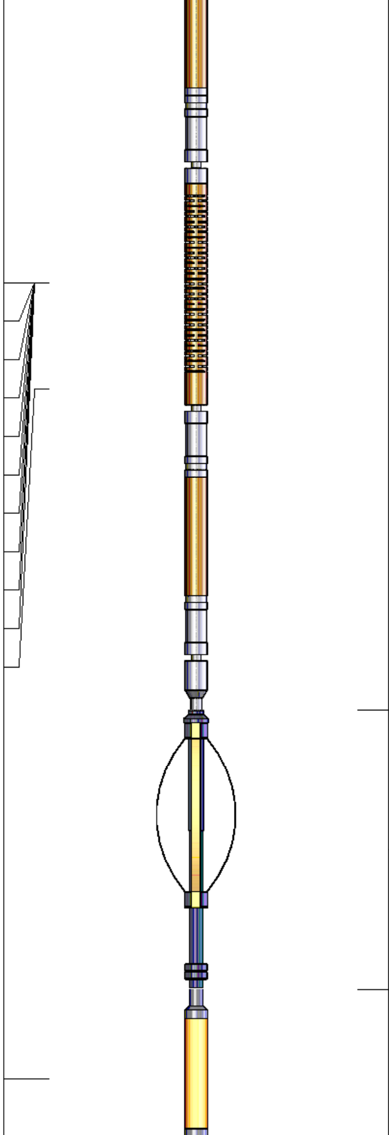
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: Cody Nelson Operator: C. Bond Operator: M. Hansen Operator: D. Hollis		

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	11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 10.63		RBT-Probe (Base) 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: pioneer_33_22_cbl_01_15_15.db: field/well/run1/pass4.1
Total Length: 19.13 ft
Total Weight: 190.00 lb
O.D. 2.75 in

Database File: pioneer_33_22_cbl_01_15_15.db
Dataset Pathname: pass4.1
Presentation Format: 5
Dataset Creation: Thu Jan 15 08:53:03 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: pioneer_33_22_cbl_01_15_15.db
Dataset Pathname: pass4.1
Dataset Creation: Thu Jan 15 08:53:03 2015 by Calc SCH 120430

Gamma Ray Calibration Report

Serial Number:	111211	
Tool Model:	Probe	
Performed:	Fri Nov 08 12:58:35 2013	
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:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	1383.192	ft

Master Calibration, performed Thu Jan 15 08:52:59 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.004	1.128	0.000	81.196	71.739	0.290
CAL	1.465	1.017				
5'	0.000	1.063	0.000	81.196	76.365	-0.000
SUM						
S1	-0.004	1.313	0.000	100.000	75.925	0.275
S2	-0.003	1.300	0.000	100.000	76.764	0.192
S3	-0.003	1.107	0.000	100.000	90.077	0.268
S4	-0.003	1.502	0.000	100.000	66.483	0.171
S5	-0.002	1.247	0.000	100.000	80.041	0.171
S6	-0.003	1.310	0.000	100.000	76.179	0.206
S7	-0.001	1.236	0.000	100.000	80.891	0.043
S8	-0.004	1.119	0.000	100.000	89.048	0.343

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	1.465	1.017	1.000	0.000

Air Zero Calibration, performed Wed Aug 21 10:24:02 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