C&J ENERGY SERVICES

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.

Company	ANADARKO PETROLEUM CORP
Well	NESG 39-23
Field	WATTENBERG
County	WE;D
State	COLORADO

Company ANADARKO PETROLEUM CORP
Well NESG 39-23
Field WATTENBERG
County WE;D State COLORADO

Location: API #: 05-123-24979
1185' FSL 882' FWL
1320' FSLX 50' FEL
SEC 24 TWP 3N RGE 68W

Other Services

Permanent Datum GROUND LEVEL Elevation 4950'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4970'
D.F. 4969'
G.L. 4950'

Date	DECEMBER 20, 2019
Run Number	ONE
Depth Driller	7598'
Depth Logger	3000'
Bottom Logged Interval	2997'
Top Log Interval	SURFACE
Casing Size	4.5"
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	N/A
Time Well Ready	ROA
Time Logger On Bottom	N/A
Unit Number	200099
Tool Size / ID Number	2 3/4 RADIAL PROBE
Location	
Recorded By	ADAM GARDNER
Witnessed By	JOSE CASTILLO

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.5"	11.6LB		
Liner				

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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 CORRELATED TO HALLIBURTON LOG DATED11-Apr-2008
Thank you for using Nextier Oilfield Solutions

Database File: cbl anadarko nesg 39-23 12-20-19 a.db
Dataset Pathname: pass5
Presentation Format: anadarko
Dataset Creation: Fri Dec 20 14:16:53 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

50 CCL -5.5	0 Amplified Amplitude (mV) 20	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	0 Amplitude (mV) 100	
340 TT3 (usec) 240		

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Calibration Report

Database File: cbl anadarko nesg 39-23 12-20-19 a.db
Dataset Pathname: pass5
Dataset Creation: Fri Dec 20 14:16:53 2019 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Mon Dec 16 08:38:30 2019

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6800			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 101020
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 1585.275 ft

Master Calibration, performed Fri Dec 20 14:09:17 2019:

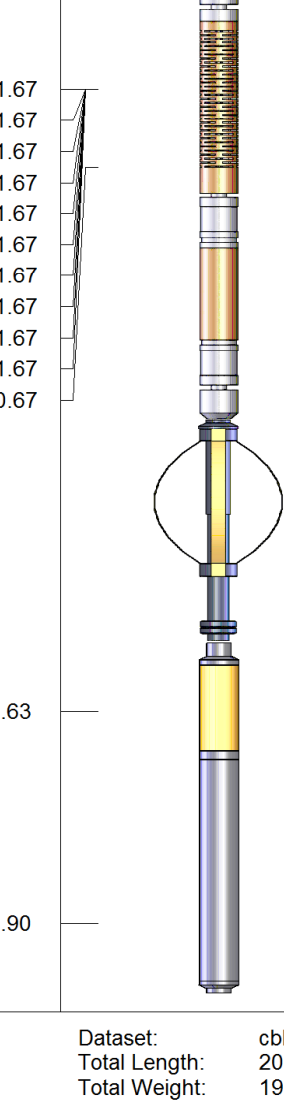
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.913	0.800	81.196	42.212	0.458
CAL	0.007	0.575				
5'	0.007	1.791	0.800	81.196	45.063	0.469
SUM						
S1	0.007	1.887	0.000	81.921	43.594	-0.325
S2	0.008	1.915	0.000	81.921	42.939	-0.327
S3	0.008	1.931	0.000	81.921	42.586	-0.322
S4	0.007	1.928	0.000	81.921	42.658	-0.319
S5	0.008	1.930	0.000	81.921	42.609	-0.324
S6	0.007	1.913	0.000	81.921	42.978	-0.317
S7	0.008	1.908	0.000	81.921	43.118	-0.343
S8	0.007	1.896	0.000	81.921	43.389	-0.323

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.575	1.000	0.000

Air Zero Calibration, performed Tue Dec 10 11:07:12 2019:

	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



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
HEADVOLT	16.33				
IntTemp	14.92				
WVF3FT	11.67	RBT-Probe (101020) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	11.67				
WVFS1	11.67				
WVFS2	11.67				
WVFS3	11.67				
WVFS4	11.67				
WVFS5	11.67				
WVFS6	11.67				
WVFS7	11.67				
WVFS8	11.67				
WVF5FT	10.67				
		Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL	3.63				
		GR-Probe275dig (110785) Probe Gamma CCL	4.54	2.75	57.00
GR	0.90				

Dataset: cbl anadarko nesg 39-23 12-20-19 a.db: field/well/run1/pass5
Total Length: 20.04 ft
Total Weight: 197.00 lb
O.D. 2.75 in