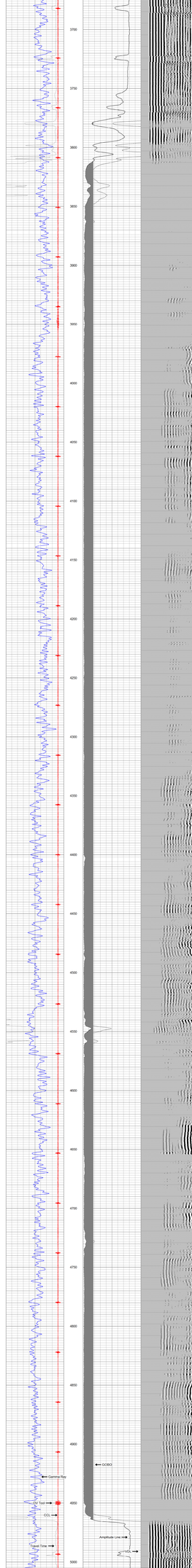

C&J ENERGY SERVICES

GAMMA RAY / CCL
CEMENT BOND / VDL

Company	ANADARKO PETROLEUM CORP.
Well	HSR CANNON 9-18A
Field	WATTENBERG
County	WELD
State	COLORADO

Company ANADARKO PETROLEUM CORP.
Well HSR CANNON 9-18A
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-20177
NE / SE
SEC 18 TWP 2N RGE 66W

Other Services

Elevation
K.B. 4874';
D.F. 4873'
G.L. 4863'

Permanent Datum GL Elevation 4863'
Log Measured From KB
Drilling Measured From KB

Date	March 18, 2019
Run Number	One
Depth Driller	8122'
Depth Logger	5000'
Bottom Logged Interval	5000'
Top Log Interval	Surface
Casing Size	4 1/2
Type Fluid	Water
Max. Recorded Temp.	NA
Estimated Cement Top	---
Time Well Ready	7:30am
Time Logger On Bottom	8:00am
Unit Number	200113
Tool Size / ID Number	2 3/4 Tecko
Location	HWY 85 & CR22
Recorded By	Adam Frank
Witnessed By	Nate Windholz

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8	24#	Surface	674'
Prot. String				
Production String	4 1/2	11.6#	Surface	8121'
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

Thank You for using Casedhole Solutions!
Log Correlated to DV Tool @ 4950'
Log ran under 500 PSI

Database File:	cannon 9-18a.db
Dataset Pathname:	pass5
Presentation Format:	nuexbond
Dataset Creation:	Mon Mar 18 08:49:40 2019 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

Database File:	cannon 9-18a.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Mon Mar 18 08:00:39 2019 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File: cannon 9-18a.db
Dataset Pathname: pass5
Dataset Creation: Mon Mar 18 08:49:40 2019 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	234GR-328	
Tool Model:	TekcoGR	
Performed:	Mon Apr 18 13:05:02 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234B35C-8013	
Tool Model:	TEKCO	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	2889.958	ft

Master Calibration, performed Mon Mar 18 07:52:30 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	2.479	1.500	81.196	32.244	1.274
CAL	0.007	0.754				
5'	0.006	2.307	1.500	81.196	34.633	1.288
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Wed Aug 03 12:27:14 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.754	1.000	0.000

Air Zero Calibration, performed Wed Aug 03 12:21:32 2011:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			
S7			
S8			