NEXTIER
COMPLETION SOLUTIONS

Radial Bond Log
Gamma Ray / CCL
Cement Bond / VDL

Company	NOBLE ENERGY INC.
Well	PIONEER USX Y07-08D
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well PIONEER USX Y07-08D
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-33553
NE / SE
SEC 7 TWP 2N RGE 64W

Other Services

Permanent Datum	GL	Elevation	4860'	Elevation
Log Measured From	KB			K.B. 4875'
Drilling Measured From	KB			D.F. 4874'
				G.L. 4860'

Date	22 July 2020
Run Number	One
Depth Driller	7911'
Depth Logger	2500'
Bottom Logged Interval	2500'
Top Log Interval	Surface
Casing Size	4 1/2
Type Fluid	Water
Max. Recorded Temp.	NA
Estimated Cement Top	--
Time Well Ready	ROA
Time Logger On Bottom	8:00
Unit Number	200054
Tool Size / ID Number	2 3/4 RBL
Location	CR 51 & 22
Recorded By	Scott Erb
Witnessed By	Tony Mathias

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	872'
Prot. String				
Production String	4 1/2	11.6#	Surface	7895'
Liner				

<<< Fold Here >>>

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 NexTier Completion Solutions!
Correlated to log Dated July 16, 2020

Database File: c:\users\sds\desktop\logs\pioneer usx y07-08d\pioneer usx y07-08d.db
Dataset Pathname: pass5
Presentation Format: zwag
Dataset Creation: Wed Jul 22 07:47:09 2020 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: c:\users\sds\desktop\logs\pioneer usx y07-08d\pioneer usx y07-08d.db
Dataset Pathname: pass5
Dataset Creation: Wed Jul 22 07:47:09 2020 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION	Fri Dec 28 09:41:10 2018				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			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:	1418.650	ft

Master Calibration, performed Thu Jul 16 12:08:53 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	1.487	1.500	81.196	53.163	2.134
CAL	-0.012	1.554				
5'	-0.012	1.468	1.500	81.196	53.860	2.145
SUM						
S1	-0.012	1.646	0.000	81.921	49.429	0.573
S2	-0.012	1.650	0.000	81.921	49.288	0.582
S3	-0.012	1.575	0.000	81.921	51.622	0.602
S4	-0.012	1.427	0.000	81.921	56.916	0.679
S5	-0.012	1.270	0.000	81.921	63.901	0.755
S6	-0.012	1.246	0.000	81.921	65.120	0.755
S7	-0.012	1.412	0.000	81.921	57.515	0.694
S8	-0.012	1.609	0.000	81.921	50.540	0.589

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	-0.012	1.554	1.000	0.000

Air Zero Calibration, performed Tue Feb 25 13:16:04 2014:

	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