NEXTIER
COMPLETION SOLUTIONS

RADIAL CEMENT BOND GAMMA RAY CCL LOG

Company	CM PRODUCTION LLC
Well	CANNON 2-24
Field	TAP
County	WASHINGTON
State	COLORADO

Company CM PRODUCTION LLC
Well CANNON 2-24
Field TAP
County WASHINGTON State COLORADO

Location: API # : 05-121-09840
SE/NE
SEC 24 TWP 2N RGE 49W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4190'
Log Measured From KELLY BUSHING WHICH IS 10' AGL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4200'
D.F. N/A
G.L. 4190'

Date	10 JULY 2020
Run Number	ONE
Depth Driller	4030'
Depth Logger	3700'
Bottom Logged Interval	3697'
Top Log Interval	SURFACE
Casing Size	4.5"
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	2832'
Time Well Ready	ROA
Time Logger On Bottom	9:32AM
Unit Number	200099
Tool Size / ID Number	2.75" RADIAL PROBE
Location	YUMA, CO
Recorded By	ADAM GARDNER
Witnessed By	MIKE BOHLER

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#	0'	438'
Prot. String				
Production String	4.5"	10.5#	0'	4030'
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 NOT CORRELATED
RAN WITH 10' KB

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MAIN PASS (0 PSI)

Database File:	rcbl cannon 2-24.db
Dataset Pathname:	pass11
Presentation Format:	zwag
Dataset Creation:	Fri Jul 10 09:34:01 2020 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

Track 1	Track 2	Track 3	VDL	Radial Map
50 CCL -5.5	0 AMP (mV) 100	0 AMPS1 100	200 VDL 1200	1 RADIAL MAP 8
GAMMA RAY	AMPLIFIED AMP3	0 AMPS2 100		80 1
0 (GAPI) 150	0 (mV) 20	0 AMPS3 100		
TRAVEL TIME		0 AMPS4 100		
340 (usec) 274		0 AMPS5 100		
		0 AMPS6 100		
		0 AMPS7 100		
		0 AMPS8 100		

340 (usec) 274

0 AMPS5 100

0 AMPS6 100

0 AMPS7 100

0 AMPS8 100

Log Variables

Database:C:\Warrior\Data\rcbl cannon 2-24.db
Dataset: field/well/run1/pass11

Top - Bottom

PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF	CASEOD in	PERFS
358	10.5	81	0.4	0.8	0	4.5	0

TDEPTH ft	BOTTEMP degF	BOREID in
0	200	8.625

Calibration Report

Database File: rcbl cannon 2-24.db
Dataset Pathname: pass11
Dataset Creation: Fri Jul 10 09:34:01 2020 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Wed Mar 18 07:21:11 2020

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5200			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: 1375.142 ft

Master Calibration, performed Fri Jul 10 09:21:06 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.809	0.800	81.196	44.625	0.454
CAL	0.008	0.601				
5'	0.008	1.311	0.800	81.196	61.676	0.309
SUM						
S1	0.008	1.796	0.000	81.000	45.291	-0.350
S2	0.008	1.843	0.000	81.000	44.128	-0.345
S3	0.008	1.875	0.000	81.000	43.379	-0.355
S4	0.008	1.873	0.000	81.000	43.420	-0.334
S5	0.008	1.842	0.000	81.000	44.161	-0.359
S6	0.008	1.793	0.000	81.000	45.378	-0.349
S7	0.008	1.779	0.000	81.000	45.727	-0.371
S8	0.008	1.784	0.000	81.000	45.593	-0.343

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

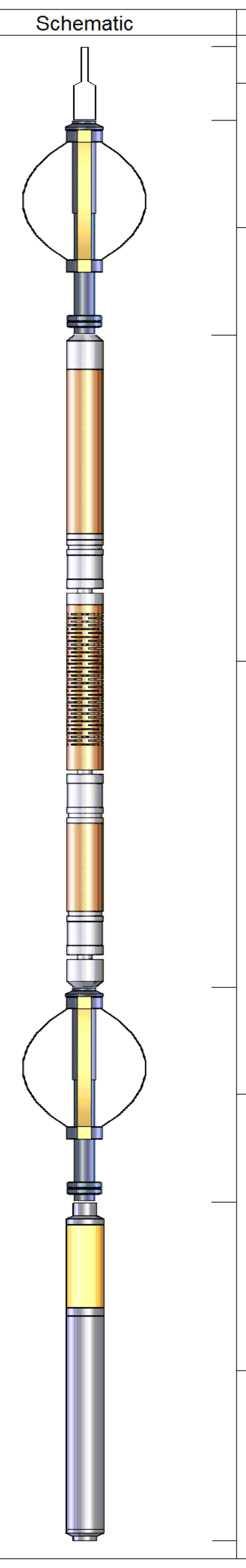
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.601	1.000	0.000

Air Zero Calibration, performed Mon Dec 30 15:19:04 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)
HEADVOLT	16.33
IntTemp	14.92
WVF3FT	11.67
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
CCL	3.63
GR	0.90

Schematic



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
RBT-Probe (101020) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
GR-Probe275dig (110785) Probe Gamma CCL	4.54	2.75	57.00

Dataset: rcbl cannon 2-24.db: field/well/run1/pass11
Total Length: 20.04 ft
Total Weight: 197.00 lb
O.D. 2.75 in