NEXTIER
COMPLETION SOLUTIONS

RADIAL CEMENT BOND GAMMA RAY CCL LOG

Company	BOHLER WELL SERVICE
Well	KISSLER DAN 2-10
Field	CHALICE
County	ARAPAHOE
State	COLORADO

Company BOHLER WELL SERVICE
Well KISSLER DAN 2-10
Field CHALICE
County ARAPAHOE State COLORADO
Location: API #: 05-005-06864-00
SW/SW
SEC 10 TWP 4S RGE 64W
Other Services

Permanent Datum GROUND LEVEL Elevation
Log Measured From 10' A.G.L.
Drilling Measured From N/A

Elevation
K.B. N/A
D.F. N/A
G.L. N/A

Date	18 FEBRUARY, 2021
Run Number	ONE
Depth Driller	8175'
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	R.O.A.
Time Logger On Bottom	3:30PM
Unit Number	200128
Tool Size / ID Number	2.75 RADIAL
Location	BENNETT, 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	9 5/8"	43#	0	308'
Prot. String				
Production String	4.5"	10.5/11.6#	0	8175'
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 WITH PREVIOUS LOG
CORRELATED TO DV TOOL AT 1840'.

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MAIN PASS (0 PSI)

Database File: kissler dan 2-10.db
Dataset Pathname: pass9
Presentation Format: zwag
Dataset Creation: Thu Feb 18 15:24:27 2021 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

50 CCL -5.5
0 GR (GAPI) 180
340 TT3 (usec) 257

0 AMP (mV) 100
AMPLIFIED AMP3
0 (mV) 20

0 AMPS1 100
0 AMPS2 100
0 AMPS3 100
0 AMPS4 100
0 AMPS5 100
0 AMPS6 100
0 AMPS7 100
0 AMPS8 100

200 VDL 1200

1 RADIAL MAP 8
80 1

50 CCL -5.5
0 GR (GAPI) 180
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Calibration Report

Database File: kissler dan 2-10.db
Dataset Pathname: pass9
Dataset Creation: Thu Feb 18 15:24:27 2021 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION Wed Oct 28 12:46:31 2020

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6000			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: 101024
Tool Model: Probe

Calibration Casing Diameter: 5.500 in
Calibration Depth: 2809.333 ft

Master Calibration, performed Thu Feb 18 14:38:18 2021:

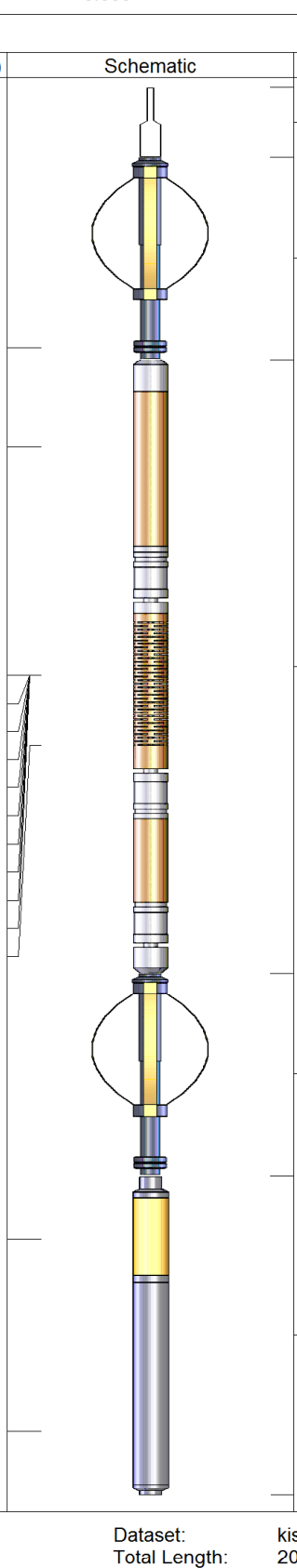
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.022	0.800	81.000	39.678	0.786
CAL	0.000	0.746				
5'	0.000	1.966	0.800	81.000	40.798	0.789
SUM						
S1	0.001	2.159	0.000	81.000	37.521	-0.021
S2	0.000	2.060	0.000	81.000	39.333	-0.010
S3	0.001	2.083	0.000	81.000	38.906	-0.024
S4	0.000	2.090	0.000	81.000	38.760	-0.009
S5	0.000	2.082	0.000	81.000	38.907	-0.006
S6	0.001	2.014	0.000	81.000	40.239	-0.021
S7	0.000	1.969	0.000	81.000	41.148	-0.010
S8	0.001	1.982	0.000	81.000	40.887	-0.022

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.746	1.000	0.000

Air Zero Calibration, performed Fri Aug 02 12:48:57 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)	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
HEADVOLT	16.33					
IntTemp	14.92					
WVF3FT	11.67		RBT-Probe (101024) 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 (101010) Probe Gamma CCL	4.54	2.75	57.00
GR	0.90					

Dataset: kissler dan 2-10.db: field/well/run1/pass9
Total Length: 20.04 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Log Variables

Database:C:\Warrior\Data\kissler dan 2-10.db
Dataset: field/well/run1/pass9

Top - Bottom

PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF	CASEOD in	PERFS
357	11.6	81	0.7	0.8	0	4.5	0

TDEPTH ft	BOTTEMP degF	BOREID in
0	200	8.625