SureFire WIRELINE WEST LLC.

RADIAL BOND
GAMMA RAY
COLLAR LOG

Company	BONANZA CREEK OPERATING	
Well	ANTELOPE STATE U-A-3HN	
Field	WATTENBERG	
County	WELD	
State	COLORADO	Country USA

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Well ANTELOPE STATE U-A-3HN
Field WATTENBERG
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Location: API # : 05-123-51729
SWNW
SEC 2 TWP 5N RGE 62W

Other Services

				Elevation
Permanent Datum	GROUND LEVEL	Elevation	4645	K.B. 4670
Log Measured From	KELLY BUSHING			D.F.
Drilling Measured From	KELLY BUSHING			G.L. 4645

Date	21-NOV-2022		
Run Number	ONE		
Depth Driller	11682		
Depth Logger	6545		
Bottom Logged Interval	6541		
Top Log Interval	SURFACE		
Open Hole Size	8 1/2		
Type Fluid	WATER		
Density / Viscosity	---		
Max. Recorded Temp.	219 F		
Estimated Cement Top	SURFACE		
Time Well Ready	ROA		
Time Logger on Bottom	0900		
Equipment Number	803		
Location	KERSEY		
Recorded By	JIM McKIE		
Witnessed By	MR. FRANK KINNEY		

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	36	SURFACE	1500
Prot. String				
Production String	5 1/2	20	SURFACE	TOTAL DEPTH
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 RECORDED USING 25' KB

LOCATION:
N-0X00000000-S
X=STATE ANTELOPE U-A-3HN

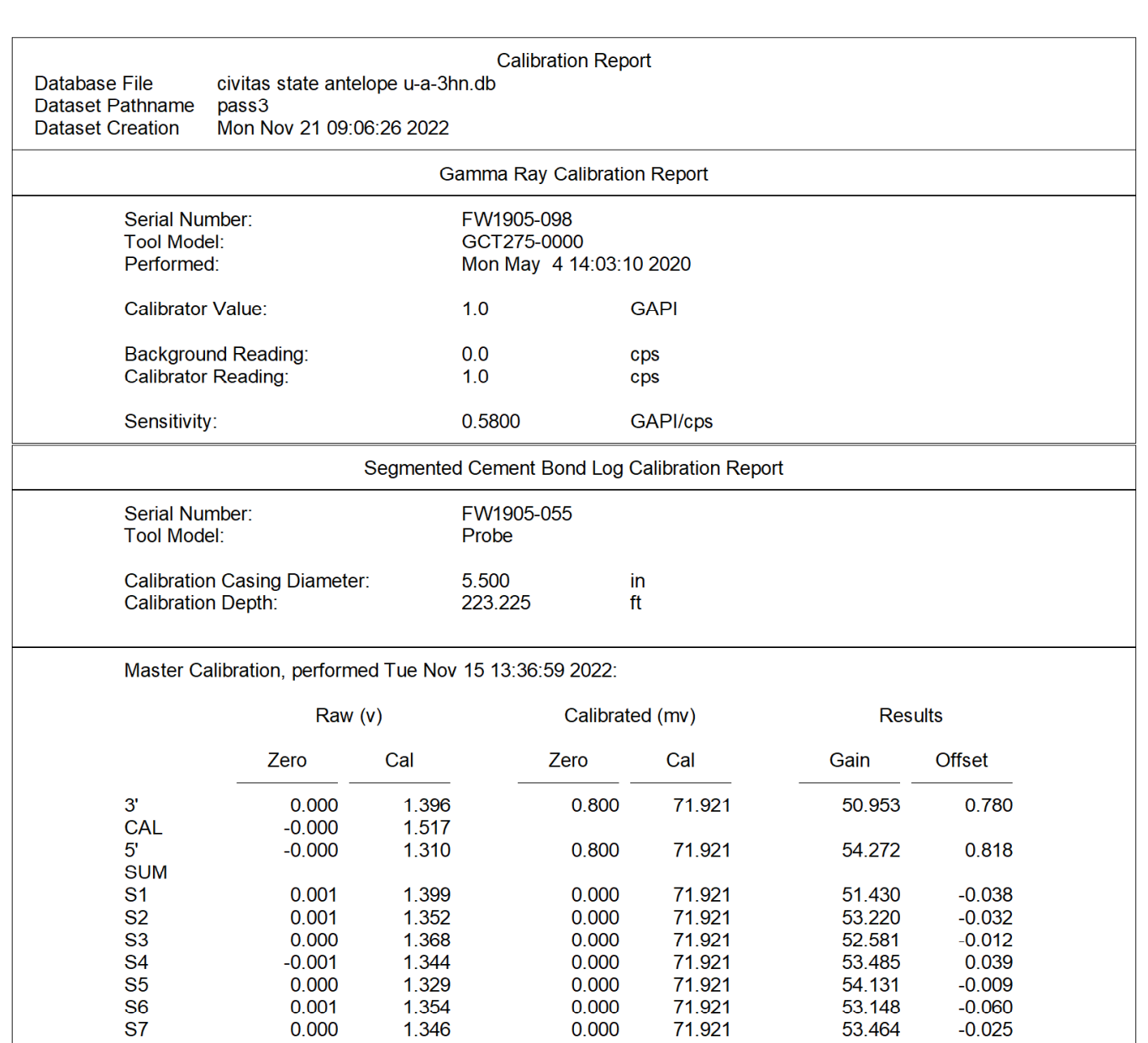
Database File	civitas state antelope u-a-3hn.db
Dataset Pathname	pass3
Presentation Format	sfww_cbl_oasis-sectors (2)
Dataset Creation	Mon Nov 21 09:06:26 2022
Charted by	Depth in Feet scaled 1:240

-2.5 CCL 3 0 GR (GAPI) 150	0 AMP (mV) 100 650 TT (usec) 150 0 AMPx5 (mV) 20	0 AMPS1 150 0 AMPS2 150 0 AMPS3 150 0 AMPS4 150 0 AMPS5 150 0 AMPS6 150 0 AMPS7 150 0 AMPS8 150 GCT_Temp (degF)	200 VDL (usec) 1200	1 RADIAL MAP 8

REPEAT SECTION

Database File civitas state antelope u-a-3hn.db
Dataset Pathname pass2
Presentation Format sfww_cbl_oasis-sectors (2)
Dataset Creation Mon Nov 21 09:00:17 2022
Charted by Depth in Feet scaled 1:240

-2.5 CCL 3 0 GR (GAPI) 150	0 AMP (mV) 100 650 TT (usec) 150 0 AMPx5 (mV) 20	0 AMPS1 150 0 AMPS2 150 0 AMPS3 150 0 AMPS4 150 0 AMPS5 150 0 AMPS6 150 0 AMPS7 150 0 AMPS8 150 GCT_Temp (degF)	200 VDL (usec) 1200	1 RADIAL MAP 8



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Calibration Report

Database File civitas state antelope u-a-3hn.db
Dataset Pathname pass3
Dataset Creation Mon Nov 21 09:06:26 2022

Gamma Ray Calibration Report

Serial Number:	FW1905-098	
Tool Model:	GCT275-0000	
Performed:	Mon May 4 14:03:10 2020	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5800	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1905-055	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	223.225	ft

Master Calibration, performed Tue Nov 15 13:36:59 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.396	0.800	71.921	50.953	0.780
CAL	-0.000	1.517				
5'	-0.000	1.310	0.800	71.921	54.272	0.818
SUM						
S1	0.001	1.399	0.000	71.921	51.430	-0.038
S2	0.001	1.352	0.000	71.921	53.220	-0.032
S3	0.000	1.368	0.000	71.921	52.581	-0.012
S4	-0.001	1.344	0.000	71.921	53.485	0.039
S5	0.000	1.329	0.000	71.921	54.131	-0.009
S6	0.001	1.354	0.000	71.921	53.148	-0.060
S7	0.000	1.346	0.000	71.921	53.464	-0.025
S8	0.000	1.409	0.000	71.921	51.066	-0.023

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	1.517	1.000	0.000

Air Zero Calibration, performed Tue Sep 21 11:19:14 2021:

	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