RADIAL BOND GAMMA RAY COLLAR LOG

SureFire Wireline West LLC

Company CRESTONE PEAK RESOURCES
Well WAGNER 2B-10H-E165
Field WATTENBERG
County WELD
State COLORADO Country USA

Company	CRESTONE PEAK RESOURCES
Well	WAGNER 2B-10H-E165
Field	WATTENBERG
County	WELD
State	COLORADO
Country	USA
Location:	API # : 05-123-50735
	SWNW
	SEC 10 TWP 1N RGE 65W
Other Services	
Permanent Datum	GROUND LEVEL Elevation 4970
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elevation	K.B. 4995 D.F. G.L. 4970

Date	21-MAR-2022
Run Number	ONE
Depth Driller	14439
Depth Logger	7354
Bottom Logged Interval	7350
Top Log Interval	SURFACE
Open Hole Size	8 1/2
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	240 F
Estimated Cement Top	SURFACE
Time Well Ready	ROA
Time Logger on Bottom	2000
Equipment Number	803
Location	KERSEY
Recorded By	JIM McKIE
Witnessed By	MR. JOSH JOHNSON

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	40	SURFACE	2558
Prot. String				
Production String	5 1/2	20	SURFACE	TOTAL DEPTH
Liner				

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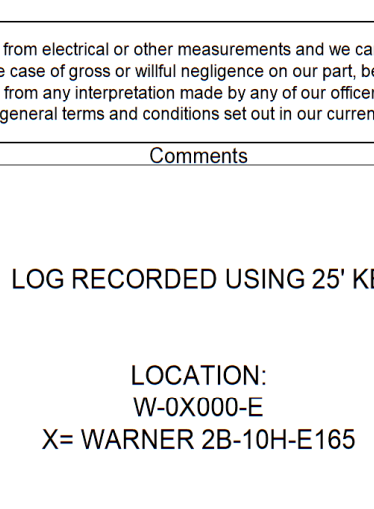
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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:
W-0X000-E
X= WARNER 2B-10H-E165



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ErrCt	19.69		CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
WVFSYNC WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVFCAL WVF3FT WVF5FT	12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 11.19		RBT-Probe (FW1905-055) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
GCT_HV CCL$2 CCL$1 GCT_Temp GR	5.10 4.14 4.14 3.59 2.72		GC-GCT275-0000 (FW1905-098) Probe Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset: civitas warner 2b-10h-e165copy.db: field/well/run1/pass3
Total length: 19.69 ft
Total weight: 194.00 lb
O.D.: 2.75 in

Database File	civitas warner 2b-10h-e165copy.db
Dataset Pathname	pass3
Presentation Format	sfww_cbl_oasis-sectors (2)
Dataset Creation	Mon Mar 21 20:10:30 2022
Charted by	Depth in Feet scaled 1:240

-3.5 CCL 1.5 | 0 AMP (mV) 100 | 0 AMPS1 150 | 200 VDL (usec) 1200 | 1 RADIAL MAP 8
0 GR (GAPI) 150 | 150 TT (usec) 150 | 0 AMPx5 (mV) 20 | 0 AMPS2 150
AMPS3 150
AMPS4 150
AMPS5 150
AMPS6 150
AMPS7 150
AMPS8 150
GCT_Temp (degF)

SureFire WIRELINE WEST LLC

REPEAT SECTION

Database File	civitas warner 2b-10h-e165copy.db
Dataset Pathname	pass2
Presentation Format	sfww_cbl_oasis-sectors (2)
Dataset Creation	Mon Mar 21 20:03:21 2022
Charted by	Depth in Feet scaled 1:240

-7 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

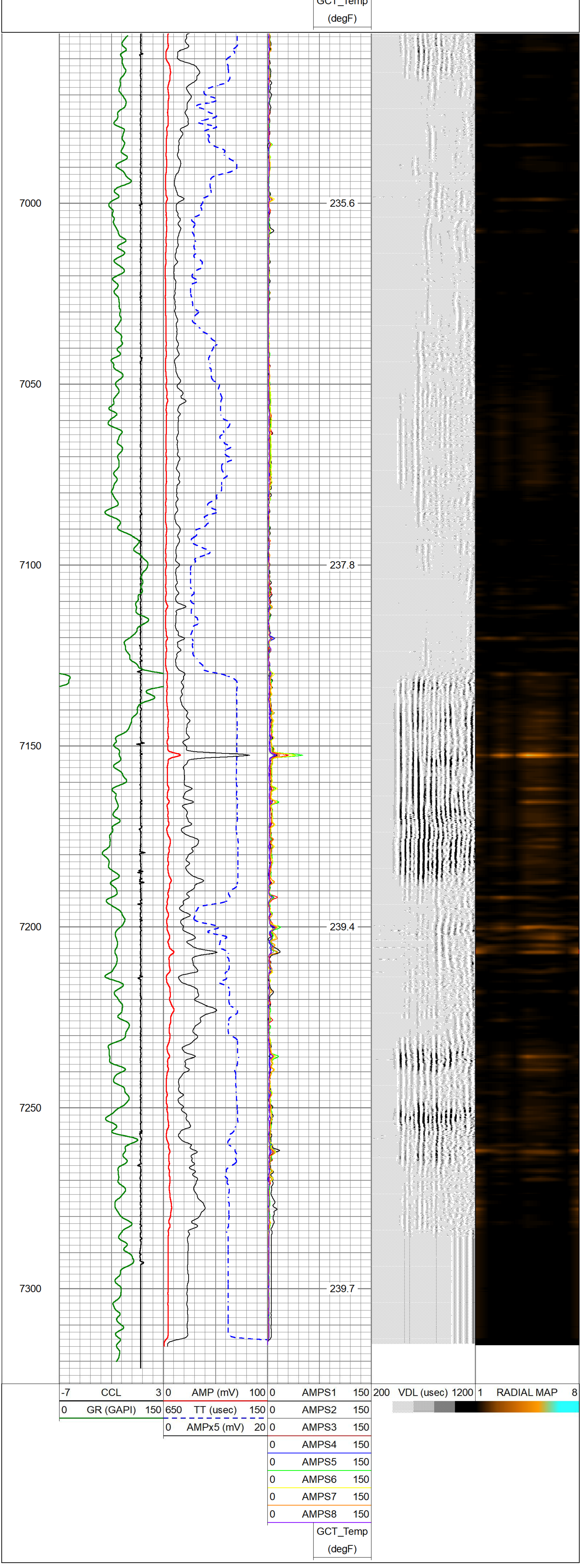
0 AMPS6 150

0 AMPS7 150

0 AMPS8 150

200 VDL (usec) 1200

1 RADIAL MAP 8



Calibration Report

Database File civitas warner 2b-10h-e165copy.db
Dataset Pathname pass3
Dataset Creation Mon Mar 21 20:10:30 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:	4.500	in
Calibration Depth:	2836.667	ft

Master Calibration, performed Mon Mar 21 13:41:23 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.092	0.800	71.921	65.157	0.775
CAL	-0.000	1.251				
5'	-0.000	0.863	0.800	71.921	82.376	0.827
SUM						
S1	0.001	1.052	0.000	71.921	68.406	-0.050
S2	0.001	1.051	0.000	71.921	72.484	-0.041
S3	0.000	1.060	0.000	71.921	67.835	-0.016
S4	-0.001	1.063	0.000	71.921	67.636	0.050
S5	0.000	1.093	0.000	71.921	65.829	-0.010
S6	0.001	1.119	0.000	71.921	50.328	-0.073
S7	0.000	1.123	0.000	71.921	50.092	-0.030
S8	0.000	1.101	0.000	71.921	65.360	-0.030

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	1.251	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