



RADIAL CEMENT BOND
GAMMA RAY
CCL

Company KERR McGEE OIL AND GAS
Well WARDELL 14-29
Field WATTENBERG
County WELD State CO

Location: SHL 460' FSL & 2170' FWL SE/SW
API # : 05-123-25836
Other Services
SEC 29 TWP 3N RGE 65W
Permanent Datum GL Elevation 4877'
Log Measured From KB 16'
Drilling Measured From KB

Company KERR McGEE OIL AND GAS
Well WARDELL 14-29
Field WATTENBERG
County WELD
State CO

Date 7-28-2014

Run Number ONE
Depth Driller 7390'
Depth Logger 3019'
Bottom Logged Interval 3016'
Top Log Interval 2230'
Open Hole Size 7.875
Type Fluid WATER
Density / Viscosity 1.0
Max. Recorded Temp. 119
Estimated Cement Top 2474'
Time Well Ready N/A
Time Logger on Bottom N/A
Equipment Number 4310
Location GREELEY
Recorded By N. BREHMER
Witnessed By M. VANDAGRIF

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE							
TWO							

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.63	24#	SURFACE	772'
Prot. String				
Production String	4.5	11.6#	SURFACE	7382'
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.

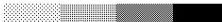

Comments

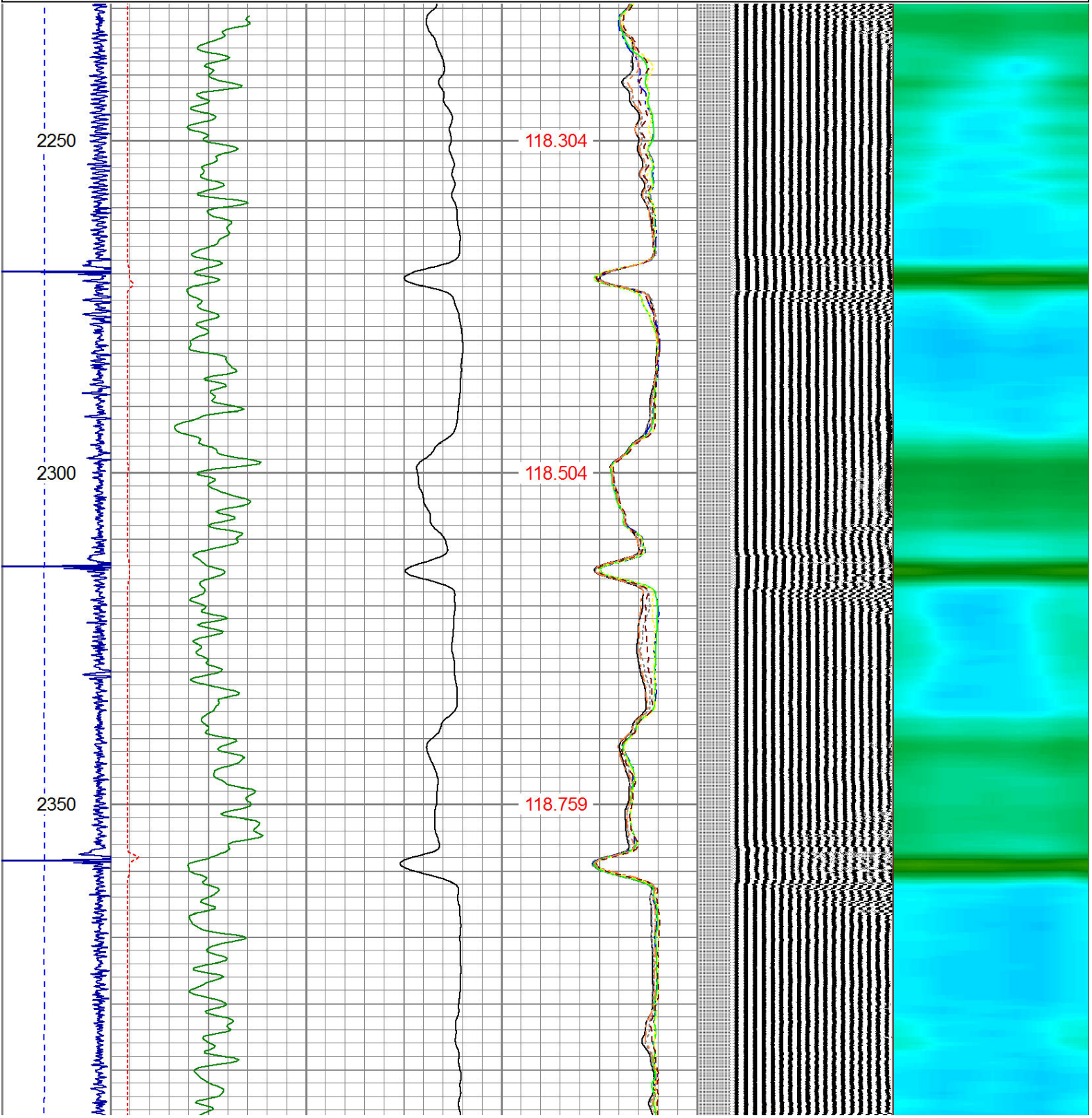
RAN CBL TO VERIFY CEMENT BOND

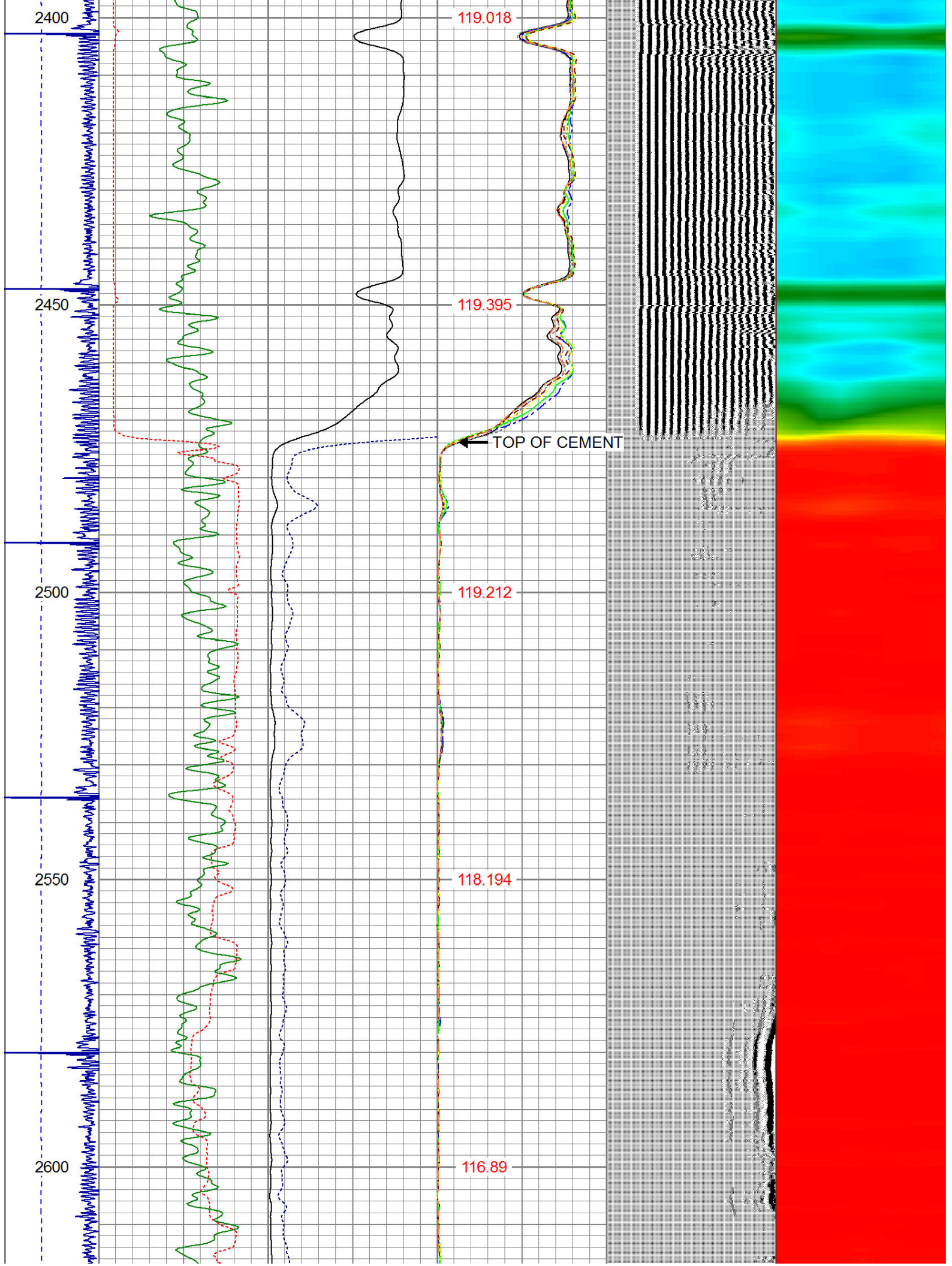
THANK YOU FOR USING WARRIOR !!!!!!!

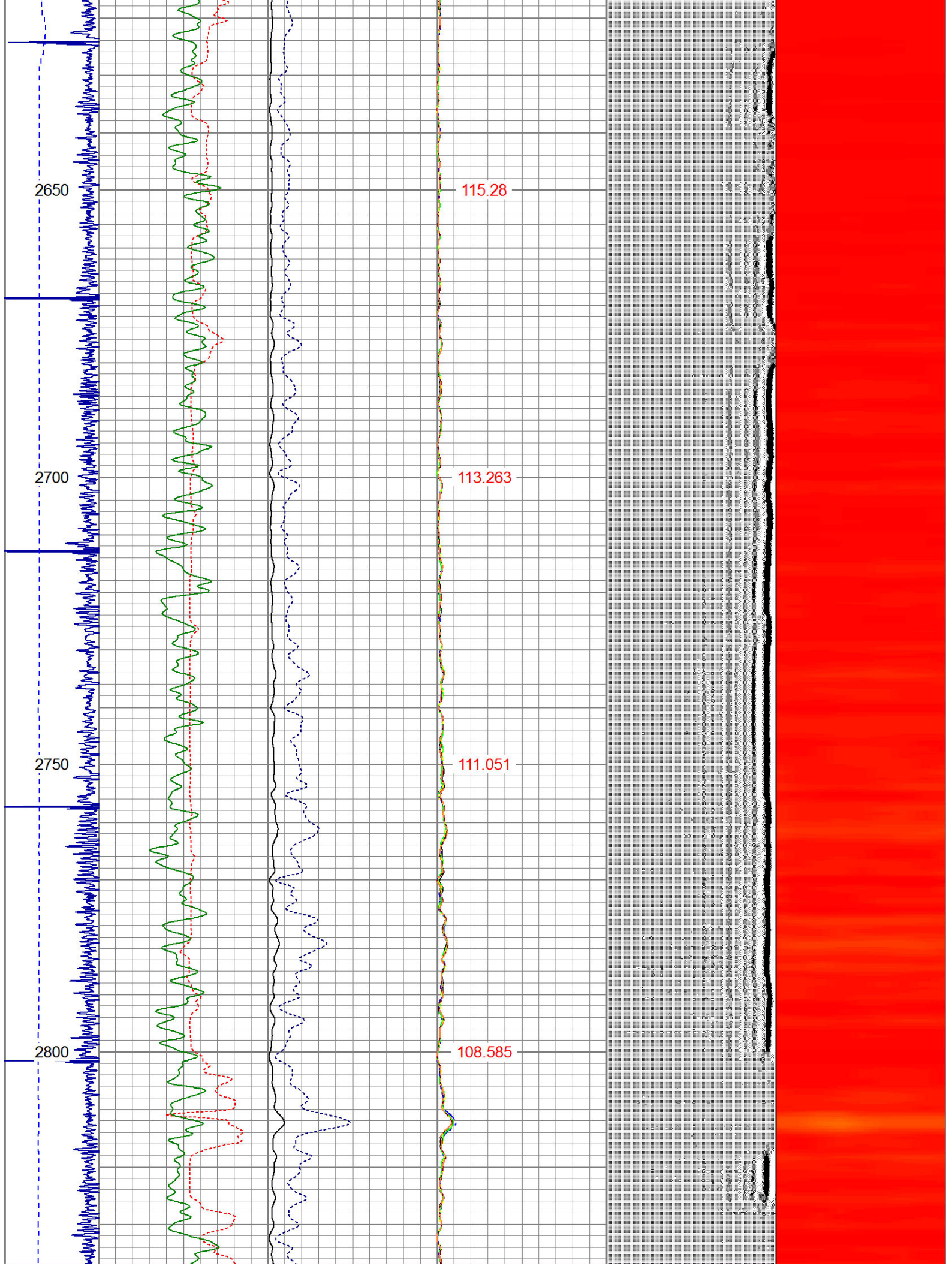
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

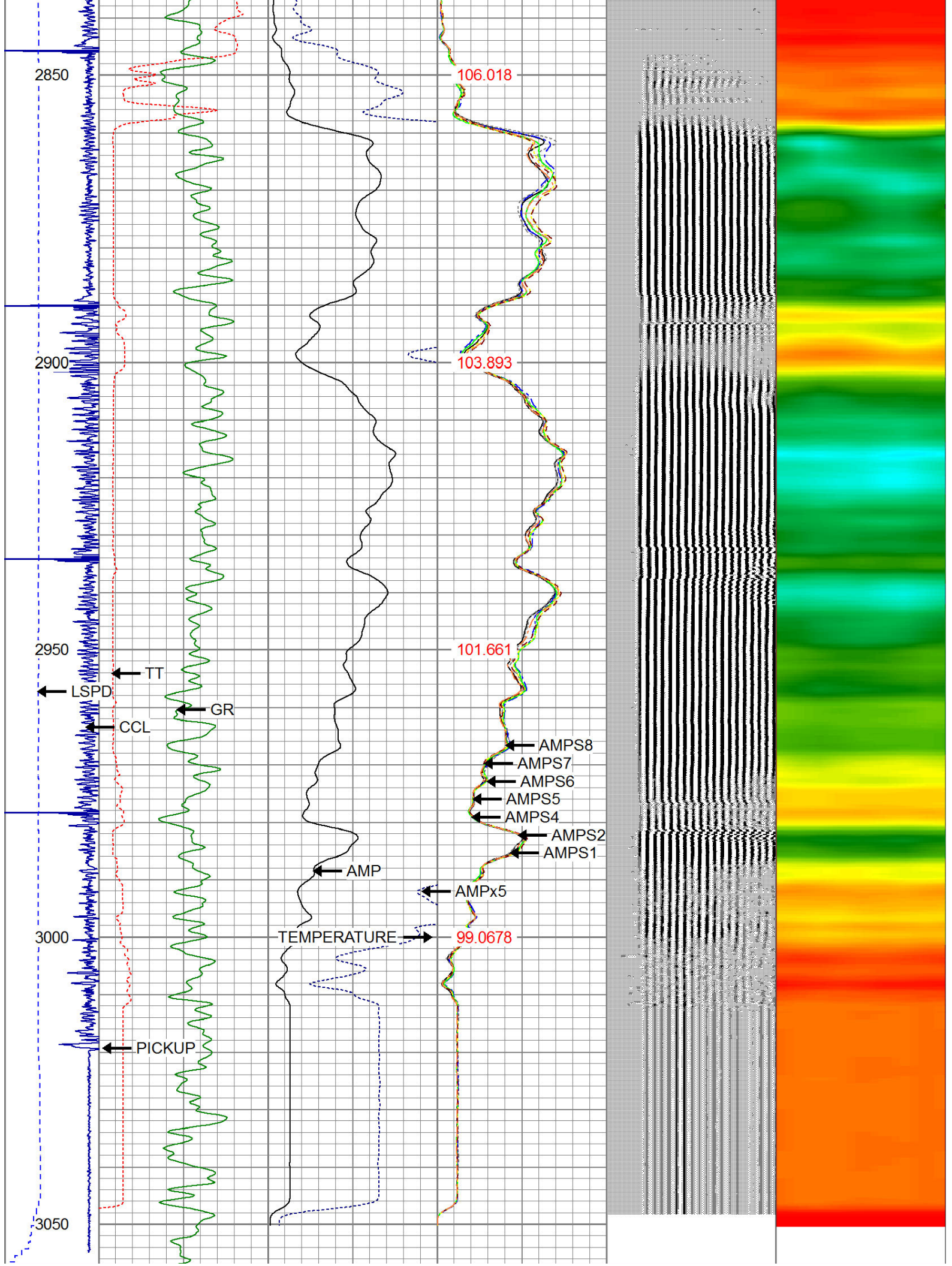
CNLSC	17.75		CNT-Probe_B (275) 6 bow centralizer	3.00	2.75	40.00
CNSSC	16.92					
HEADVOLT	16.08					
IntTemp	14.67					
WVFS3FT	11.42					
WVFCAL	11.42					
WVFS1	11.42					
WVFS2	11.42					
WVFS3	11.42					
WVFS4	11.42					
WVFS5	11.42					
WVFS6	11.42					
WVFS7	11.42					
WVFS8	11.42					
WVFS5FT	10.42					
			RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			PTS275	2.83	2.75	
CCL	3.64					
			GR-Probe (275) Probe 2.75"	4.33	2.75	30.00
GR	0.90					
Dataset: wardell 19-24.db: field/well/run1/pass2 Total Length: 19.08 ft Total Weight: 160.00 lb O.D. 2.75 in						

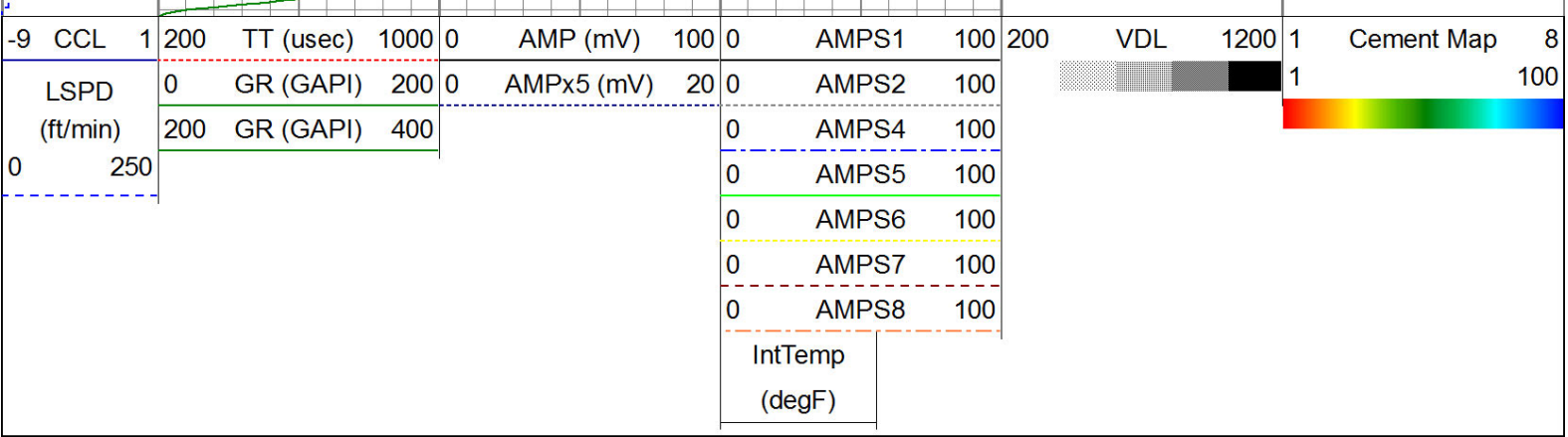
Dataset Creation: Tue Jul 29 07:03:23 2014 by Log 7.0 B1																																
Charted by: Depth in Feet scaled 1:240																																
-9	CCL	1	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8															
LSPD (ft/min)	0		0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100					1100																
	200		200	GR (GAPI)	400			0	AMPS4	100																						
	0		250					0	AMPS5	100																						
										0	AMPS6	100																				
										0	AMPS7	100																				
										0	AMPS8	100																				
										IntTemp																						
										(degF)																						













WARRIOR
ENERGY SERVICES

CompanyKERR McGEE OIL AND GAS

WellWARDELL 14-29

FieldWATTENBERG

CountyWELD

StateCO