RELIANCE
OILFIELD SERVICES

Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	SRC Energy Inc
Well	Goetzel 32C-30-M2
Field	Wattenberg
County	Weld
State	Colorado

Company SRC Energy Inc
Well Goetzel 32C-30-M2
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-44186
SEC 29 TWP 6N RGE 66W

Other Services
GR / RBP

Permanent Datum	Ground Level	Elevation	4735'	Elevation K.B. 4755' D.F. 4754' G.L. 4735'
Log Measured From	Ground Level	0 FT		
Drilling Measured From	Kelly Bushing			

Date	15-JAN-2018		
Run Number	Three		
Depth Driller	15914 FT		
Depth Logger	6707 FT		
Bottom Logged Interval	6702 FT		
Top Log Interval	Surface		
Open Hole Size	---		
Type Fluid	Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	218°F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	14:20		
Equipment Number	HD-325		
Location	Fort Lupton, CO		
Recorded By	W Wacker		
Witnessed By	Nate Brehmer		

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

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	36	---	Surface	1771 FT
Intermediate #1	5 1/2	20	P-110	Surface	15905 FT
Intermediate #2					
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 ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6410 FT
Adjusted -11 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran to 7110 FT with no debris
RBP Set at 6750 FT
Log ran from just above RBP to Surface
Log ran with 2500 PSI Surface Induced Pressure
Logging tools were clean and free of any debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

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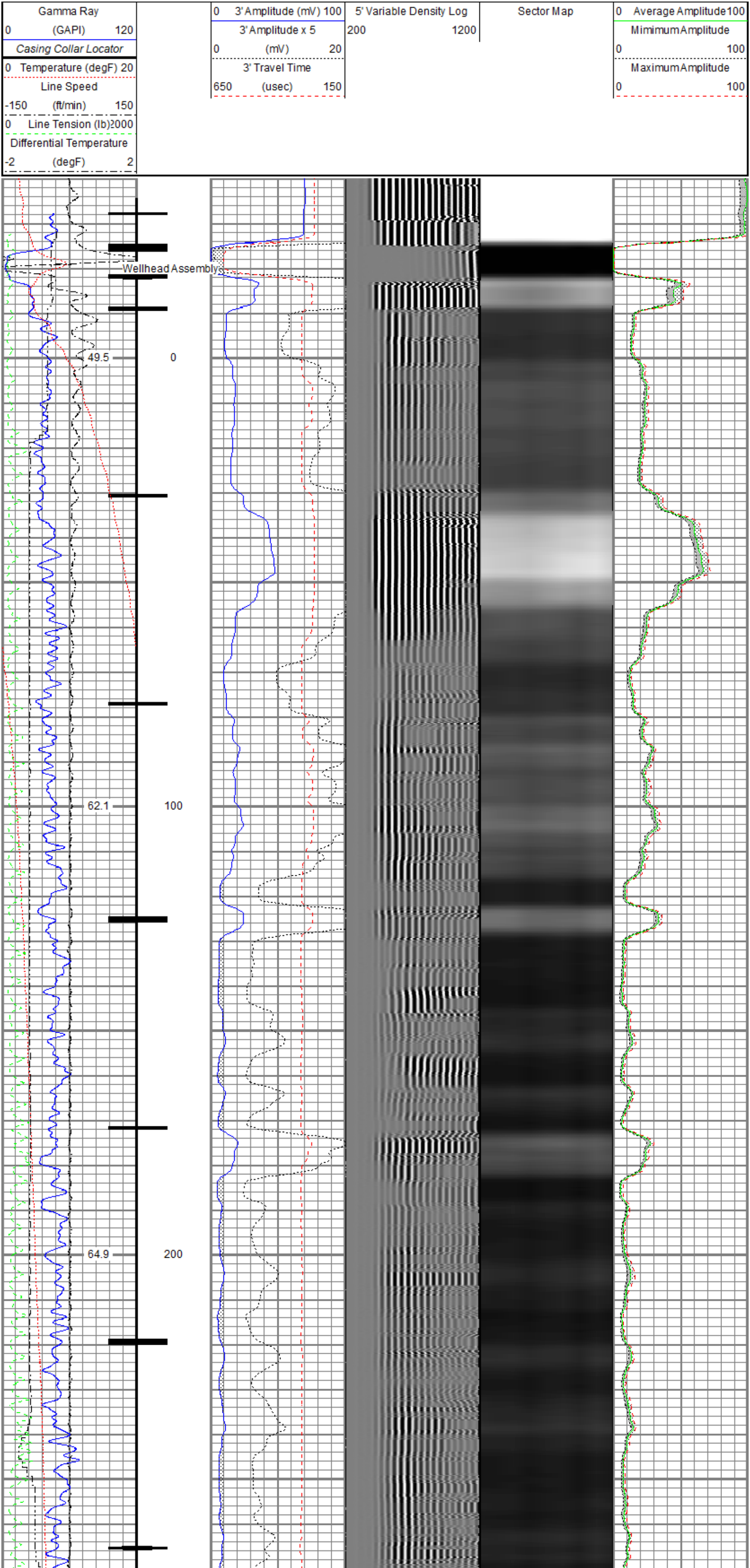
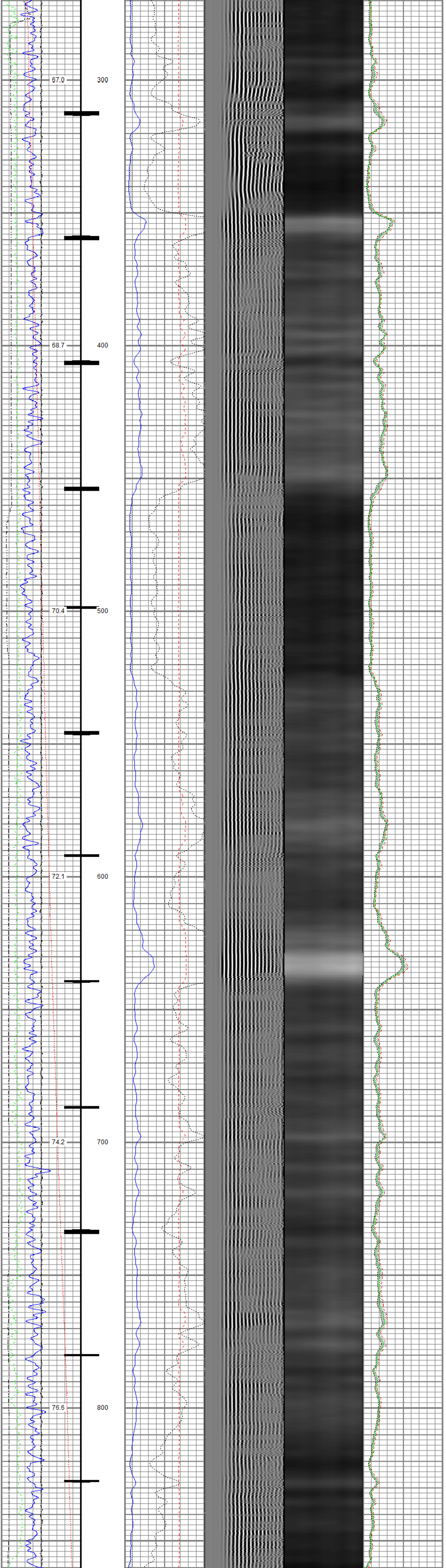
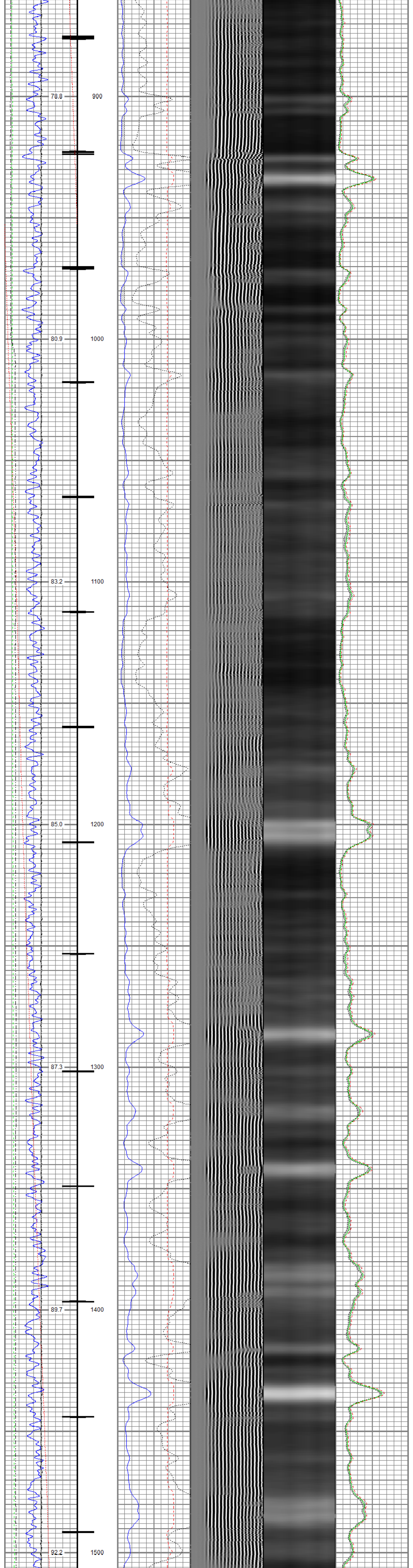
Main Pass

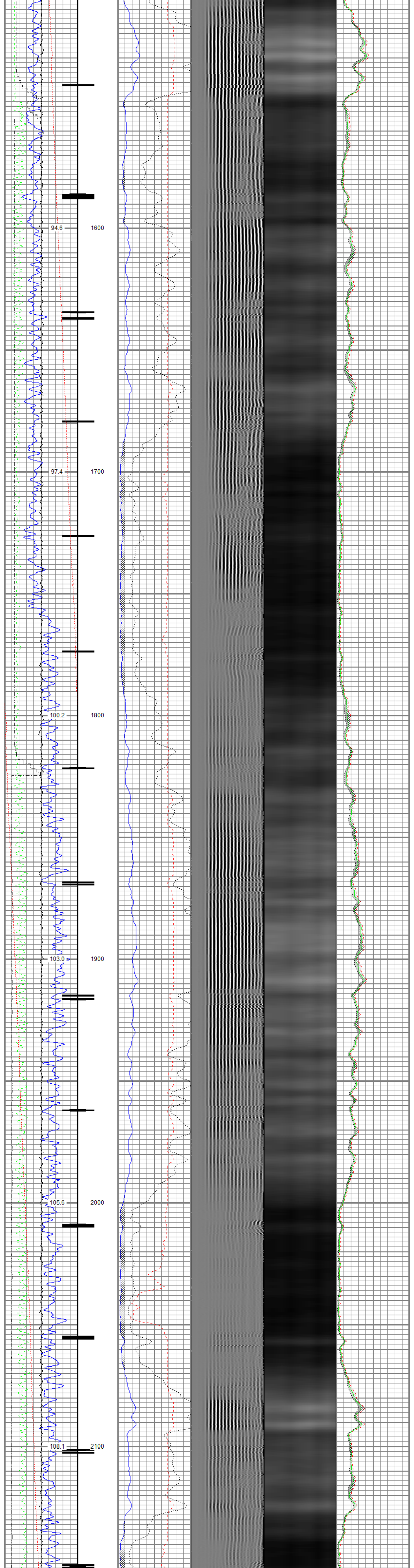
Recorded With 2500 PSI Surface Induced Pressure

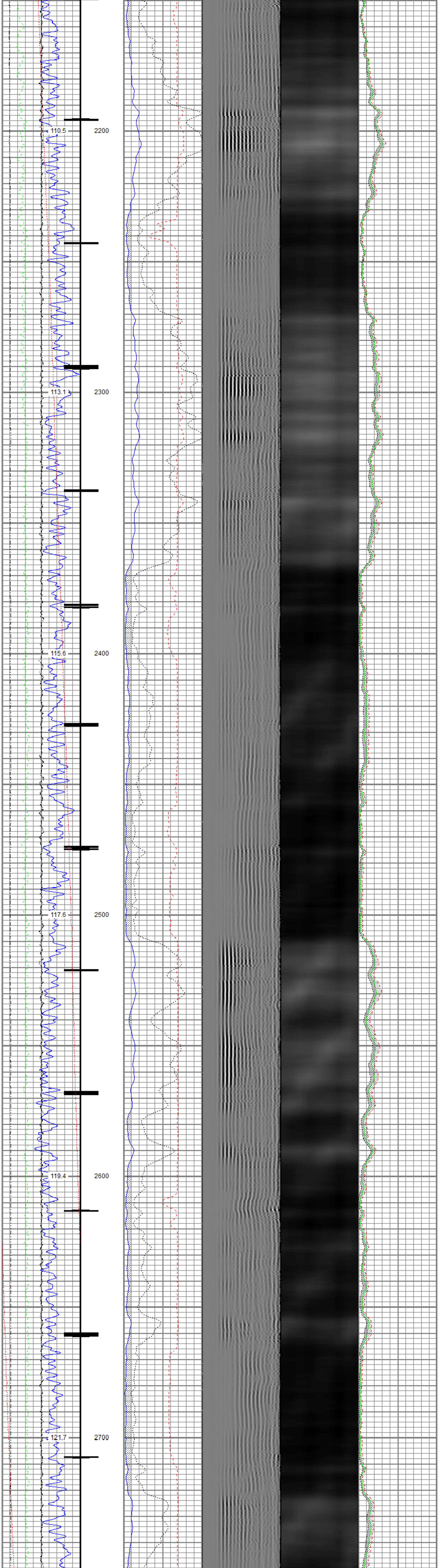
Database File	src energy_goetzel 32c-30-m2_rbl_01-15-18\processed_src energy_goetzel 32c-30-m2_rbl_01-15-18.db
Dataset Pathname	main1
Presentation Format	ros_radii
Dataset Creation	Mon Jan 15 14:33:00 2018
Charted by	Depth in Feet scaled 1:240

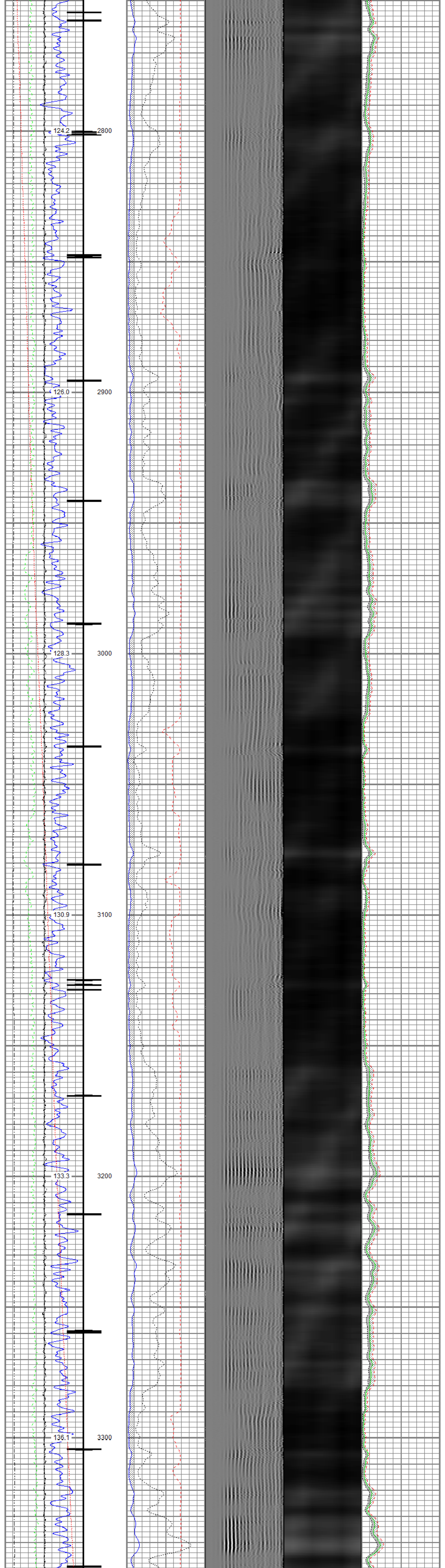


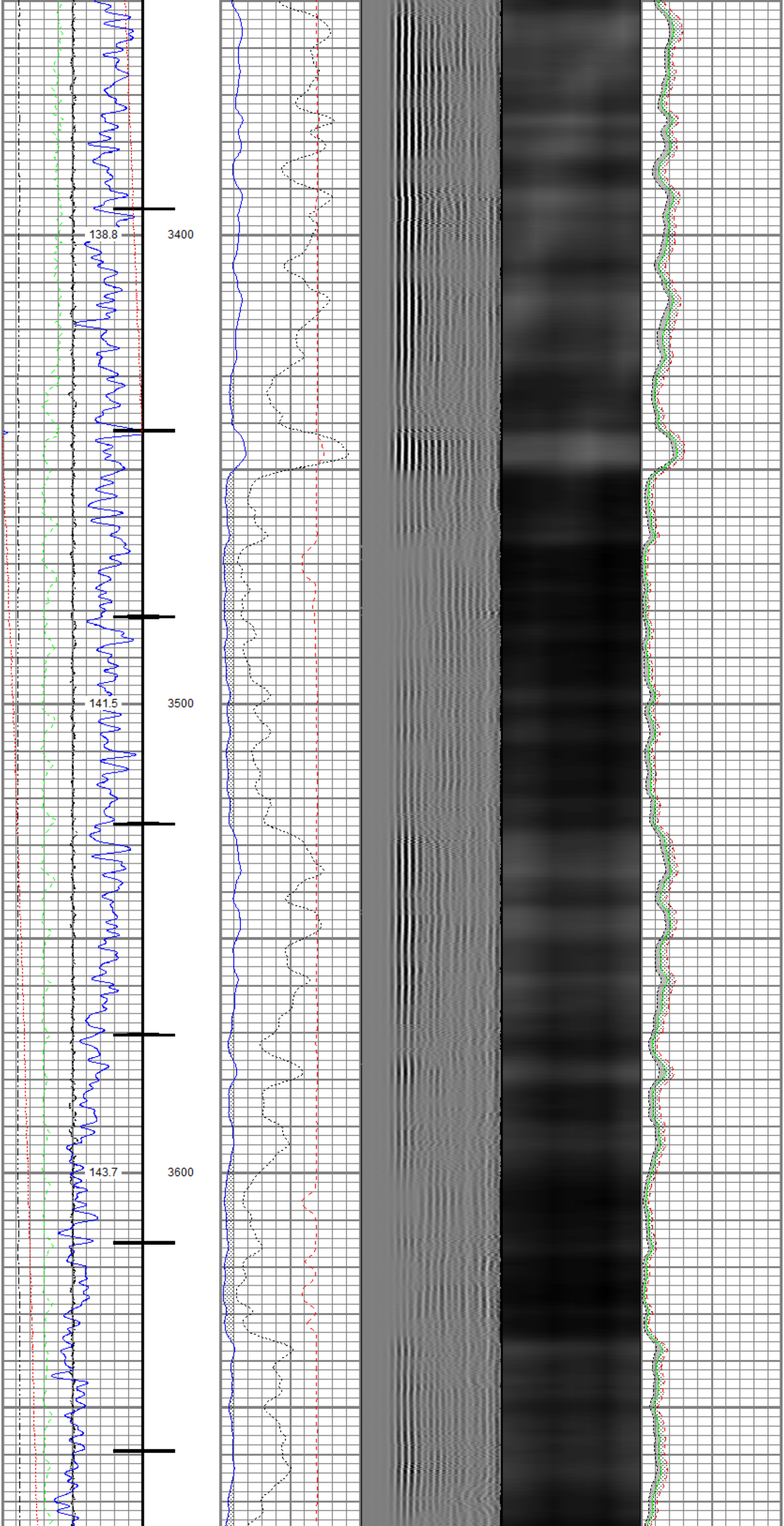


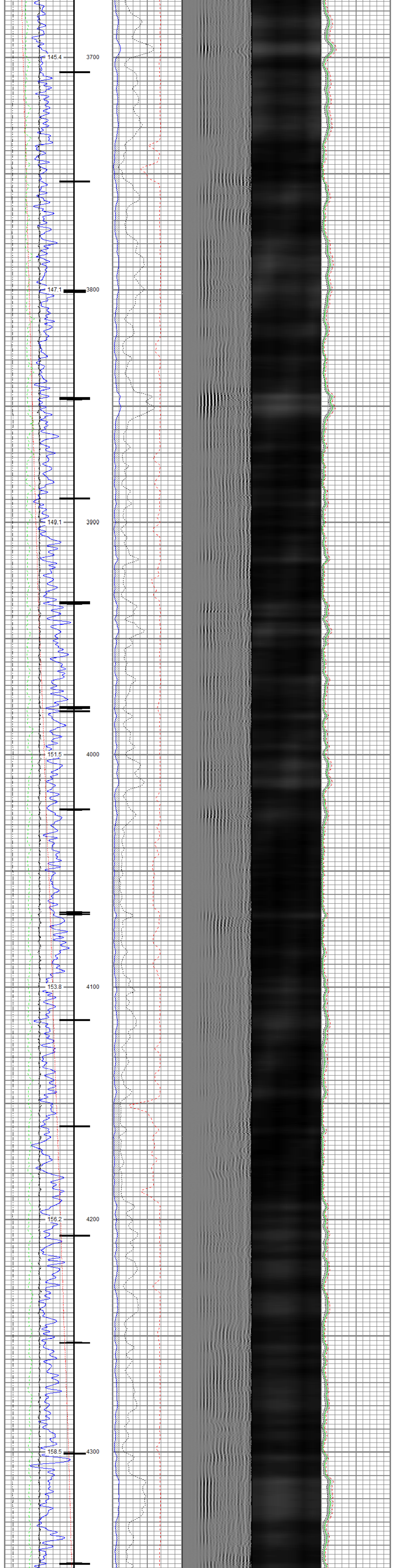


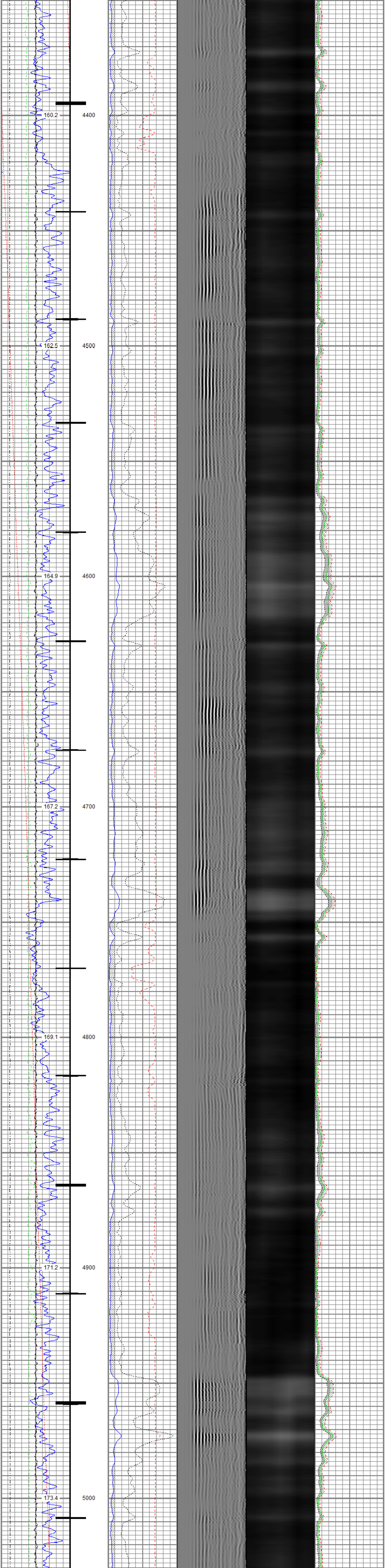


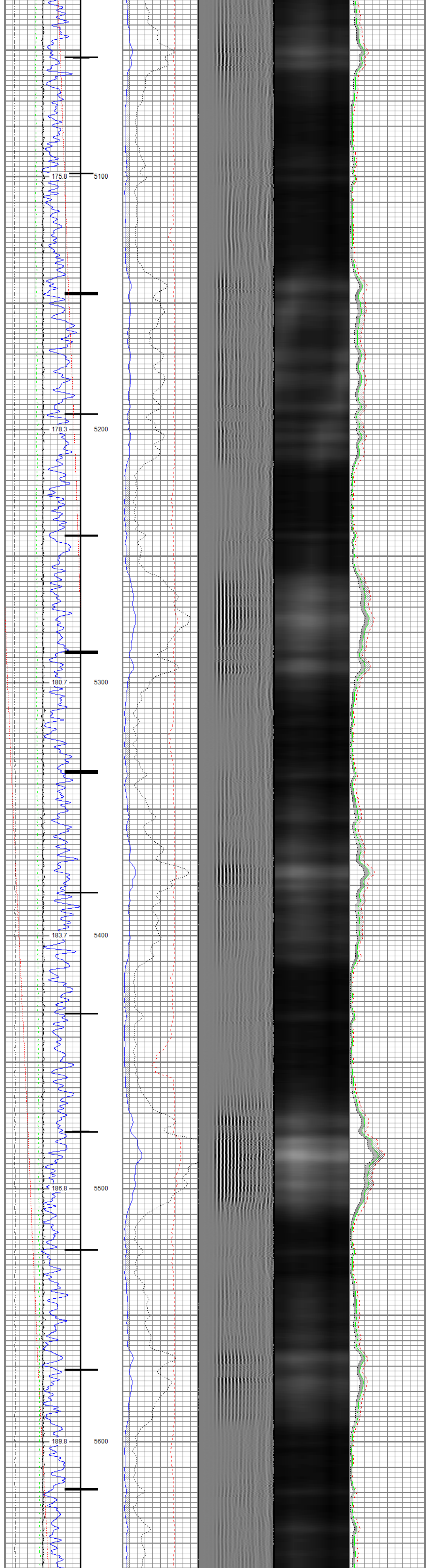


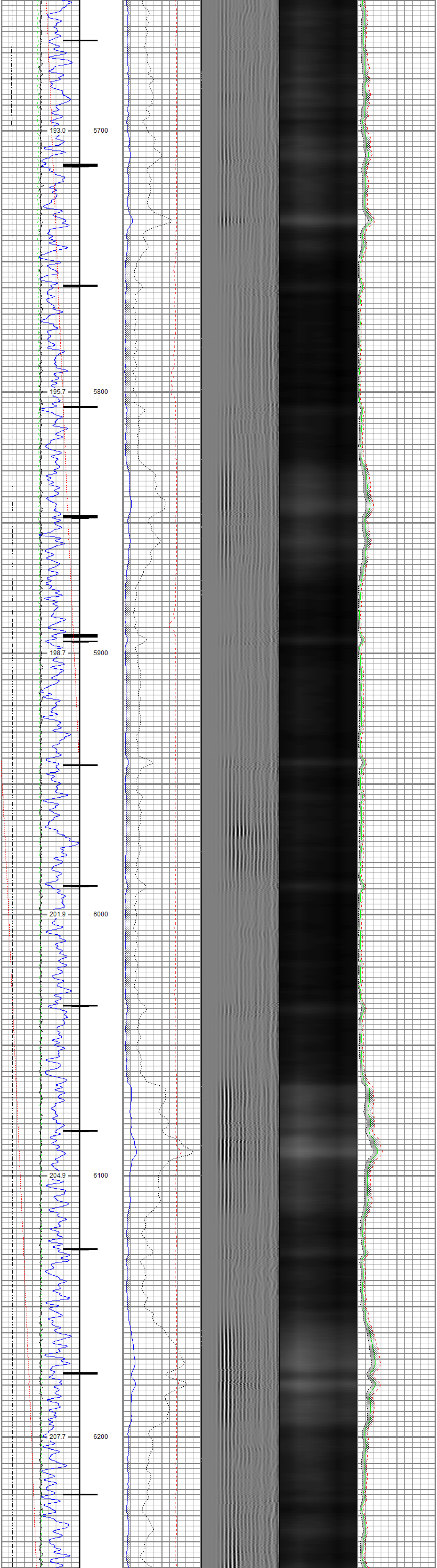


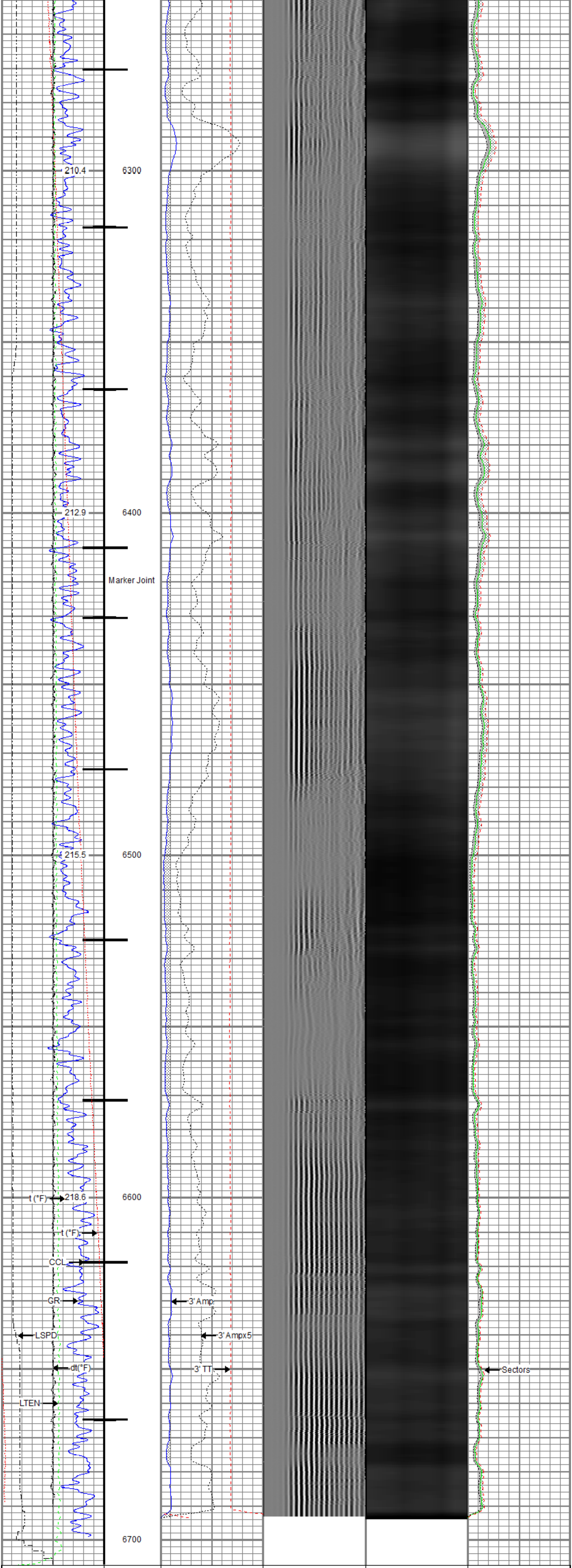












Gamma Ray		0 3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0 Average Amplitude 100
0 (GAPI) 120		3' Amplitude x 5	200 1200		Mimimum Amplitude
Casing Collar Locator		0 (mV) 20			0 100
0 Temperature (degF) 20		3' Travel Time			Maximum Amplitude
Line Speed		650 (usec) 150			0 100
-150 (ft/min) 150					
0 Line Tension (lb) 2000					
Differential Temperature					
-2 (degF) 2					

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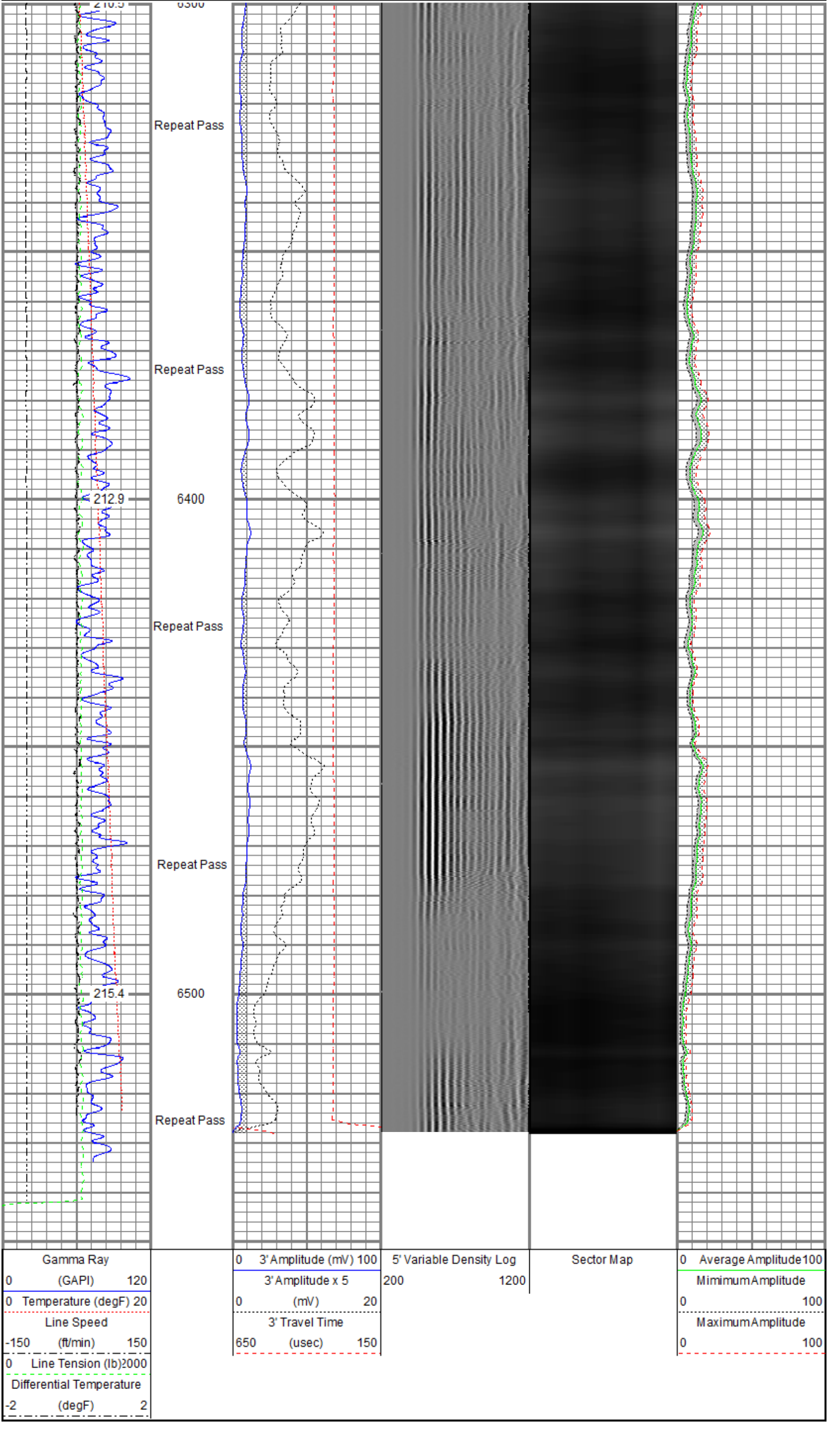
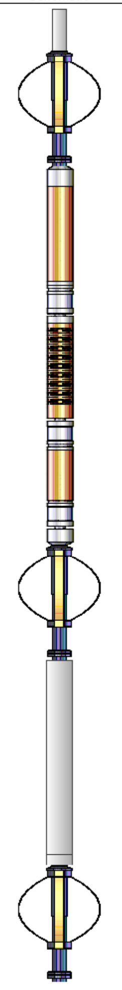
Repeat Pass

Recorded With 2500 PSI Surface Induced Pressure

Database File	src energy_goetzel 32c-30-m2_rbl_01-15-18\processed_src energy_goetzel 32c-30-m2_rbl_01-15-18.db
Dataset Pathname	repeat1
Presentation Format	ros_radii
Dataset Creation	Mon Jan 15 14:28:14 2018
Charted by	Depth in Feet scaled 1:240

Gamma Ray		0 3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0 Average Amplitude 100
0 (GAPI) 120		3' Amplitude x 5	200 1200		Mimimum Amplitude
0 Temperature (degF) 20		0 (mV) 20			0 100
Line Speed		3' Travel Time			Maximum Amplitude
-150 (ft/min) 150		650 (usec) 150			0 100
0 Line Tension (lb) 2000					
Differential Temperature					
-2 (degF) 2					



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
TEMP	17.33					
			Probe Radii-2750 RBT (FW1305-096) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS8	15.09					
WVFS7	15.09					
WVFS6	15.09					
WVFS5	15.09					
WVFS4	15.09					
WVFS3	15.09					
WVFS2	15.09					
WVFS1	15.09					
WVFCAL	15.09					
WVF3FT	15.09					
WVF5FT	14.09					
HEADVOLT	10.84					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL$2	7.08					
CCL$1	7.08					
GR	5.75					
			Probe GR-CCL-2750 6PB (FW1304-132) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
			Probe ADPT-6P-GO Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub	0.28	2.75	2.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00

Dataset:	processed_src energy_goetzel 32c-30-m2_rbl_01-15-18.db: field/well/run1/main1
Total length:	24.15 ft
Total weight:	225.60 lb
O.D.:	2.75 in

Calibration Report

Database File	c:\programdata\warrior\data\src energy_goetzel 32c-30-m2_rbl_01-15-18\processed_src energy_goetzel 32c-30-m2_rbl_01-15-1
Dataset Pathname	main1
Dataset Creation	Mon Jan 15 14:33:00 2018

Gamma Ray Calibration Report

Serial Number:	FW1304-132	
Tool Model:	2750 6PB	
Performed:	Tue Nov 28 11:17:11 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	109.1	cps
Calibrator Reading:	1009.7	cps
Sensitivity:	0.7072	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-096	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	15.894	ft

Master Calibration, performed Mon Jan 15 13:31:16 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.508	0.800	71.921	142.207	-0.268
CAL	0.282	0.503				
5'	0.007	0.491	0.800	71.921	147.138	-0.251
SUM						
S1	0.005	0.506	0.000	100.000	199.503	-0.947
S2	0.008	0.504	0.000	100.000	201.525	-1.594
S3	0.007	0.505	0.000	100.000	200.553	-1.373
S4	0.009	0.506	0.000	100.000	201.510	-1.874
S5	0.007	0.507	0.000	100.000	199.937	-1.372
S6	0.007	0.510	0.000	100.000	198.777	-1.301
S7	0.012	0.510	0.000	100.000	200.996	-2.431
S8	0.007	0.507	0.000	100.000	199.844	-1.325

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.282	0.503	1.000	0.000

Air Zero Calibration, performed Mon Jan 15 13:30:53 2018:

	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

Temperature Calibration Report

Serial Number:	FW1305-096	
Tool Model:	2750 RBT	
Performed:	Sun Nov 12 13:42:10 2017	
	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	

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Company	SRC Energy Inc
Well	Goetzel 32C-30-M2
Field	Wattenberg
County	Weld
State	Colorado