PATRIOT
WELL SOLUTIONS

Radial Cement Bond
Gamma Ray
CCL Log

Company	Bayswater Exploration & Production LLC
Well	Ward W-20-19HC
Field	Wattenberg
County	Weld
State	Colorado

Company Bayswater Exploration & Production LLC
Well Ward W-20-19HC
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-43654
274' FSL & 213' FEL
SEC 20 TWP 6N RGE 66W

Other Services
None

Permanent Datum	Ground Level	Elevation	4728'
Log Measured From	Kelly Bushing 25 FT		
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 4753'
D.F. 4752'
G.L. 4728'

Date	2-Dec-2017
Run Number	One
Depth Driller	17799 FT
Depth Logger	7427 FT
Bottom Logged Interval	7422 FT
Top Log Interval	Surface
Open Hole Size	8.5"
Type Fluid	Water
Density / Viscosity	8.33 lb/gal
Max. Recorded Temp.	242°f
Estimated Cement Top	1628 FT
Time Well Ready	00:00
Time Logger on Bottom	4:30
Equipment Number	1013
Location	Brighton
Recorded By	B. Kalkwarf
Witnessed By	B. Bivens

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Surface	13.5	Surface	1500'	9 5/8"	36#	Surface	1500'
Production	8.5"	Surface	17799'	5 1/2"	20#	Surface	17799'

<<< Fold Here >>>

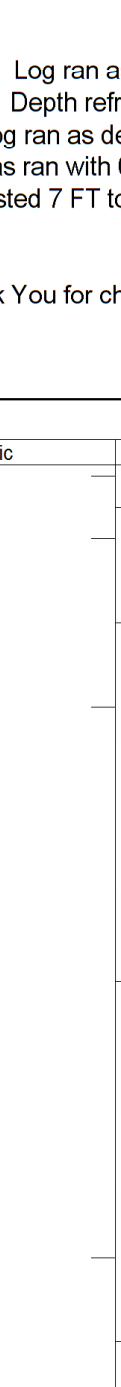
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 refrenced to Kelly Bushing.
Log ran as deep as possible to surface.
Log was ran with 0 psi surface induced pressure.
Adjusted 7 FT to correlate with Kelly Bushing.

Thank You for choosing Patriot Well Solutions!!

Sensor	Offset (ft)	Description	Length (ft)	O.D. (in)	Weight (lb
		Cable_Head-1_7/16 Titan 1 7/16" Cable Head	1.02	1.44	3.31
		Centralizers-8071-275-200 Tekco 2 3/4" Adjustable Centralizer	2.73	2.75	25.00
WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVFCAL WVF3FT WVF5FT HEADVOLT	15.29 15.29 15.29 15.29 15.29 15.29 15.29 15.29 15.29 15.29 14.29 11.04	RBT-RBTC3 (FW1704-053) RADIAL BOND TOOL	8.92	2.75	90.00
		Centralizers-8071-275-200 Tekco 2 3/4" Adjustable Centralizer	2.73	2.75	25.00
CCL GR	7.61 4.88	GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
		Centralizers-8071-275-200 Tekco 2 3/4" Adjustable Centralizer	2.73	2.75	25.00
		Bull_Plug-1_7/16_Temp_Tool Titan 1 7/16" Female Bull Plug	1.25	1.44	1.00



Dataset: bayswater_ward_w_20_19hc_rcbl.db: field/well/run1/MAIN
Total length: 23.70 ft
Total weight: 199.31 lb
O.D.: 2.75 in

Calibration Report

Database File bayswater_ward_w_20_19hc_rcbl.db
Dataset Pathname MAIN
Dataset Creation Sat Dec 02 04:30:51 2017

Gamma Ray Calibration Report

Serial Number:	275	
Tool Model:	Probe	
Performed:	Thu Aug 07 09:00:19 2008	
Calibrator Value:	100.0	GAPI
Background Reading:	35.0	cps
Calibrator Reading:	160.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1704-053	
Tool Model:	RBTC3	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	38.215	ft

Master Calibration, performed Fri Dec 01 13:15:25 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.017	0.724	1.000	71.921	100.279	-0.681
CAL	0.016	0.765				
5'	0.010	0.697	1.000	71.921	103.222	-0.053
SUM						
S1	0.008	0.737	0.000	100.000	137.029	-1.050
S2	0.017	0.751	0.000	100.000	136.347	-2.343
S3	0.017	0.745	0.000	100.000	137.330	-2.273
S4	0.017	0.740	0.000	100.000	138.269	-2.306
S5	0.017	0.736	0.000	100.000	138.956	-2.307
S6	0.017	0.740	0.000	100.000	138.362	-2.336
S7	0.017	0.737	0.000	100.000	138.880	-2.333
S8	0.017	0.725	0.000	100.000	141.210	-2.377

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.016	0.765	1.000	0.000

Air Zero Calibration, performed Fri Dec 01 13:11:01 2017:

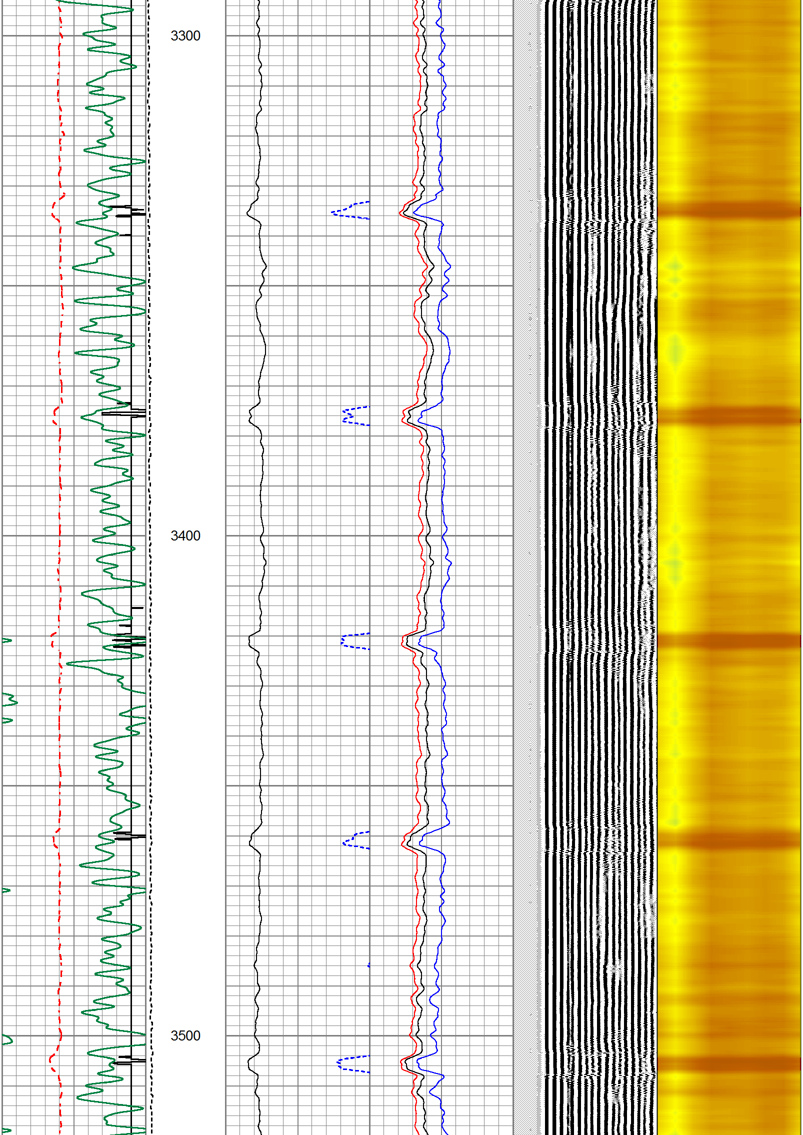
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

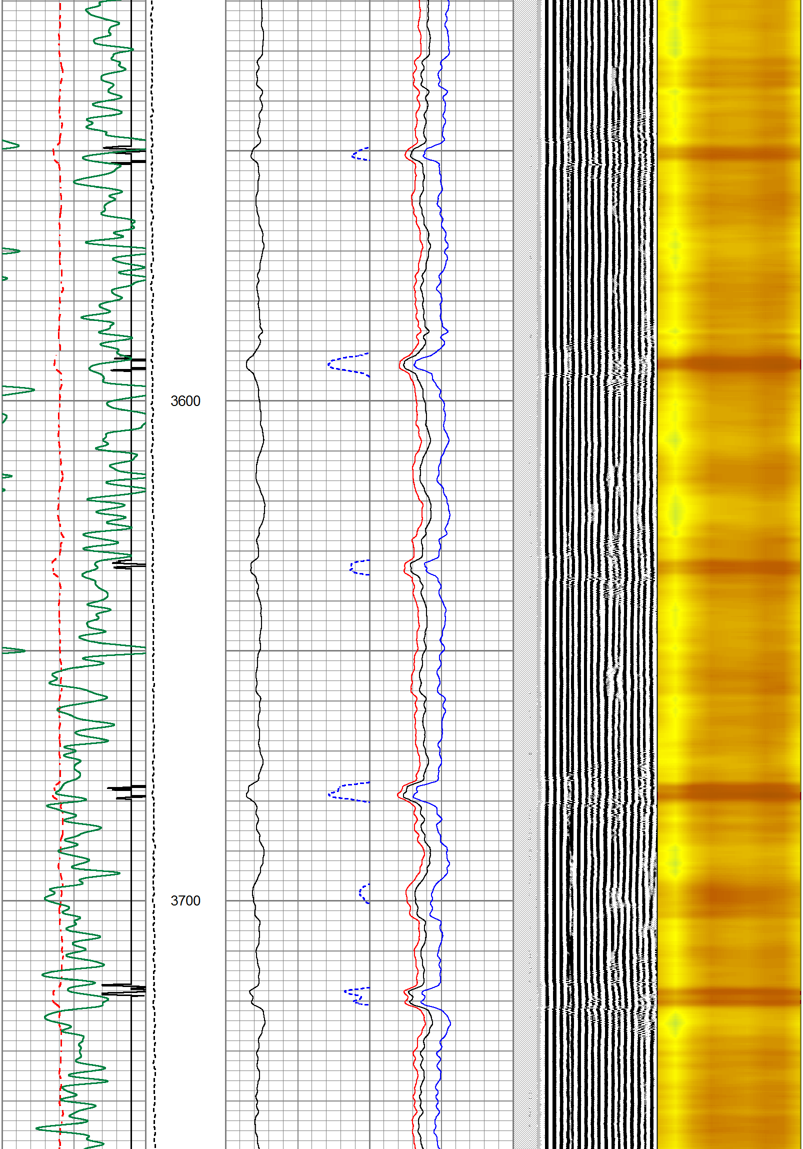
PATRIOT
WELL SOLUTIONS

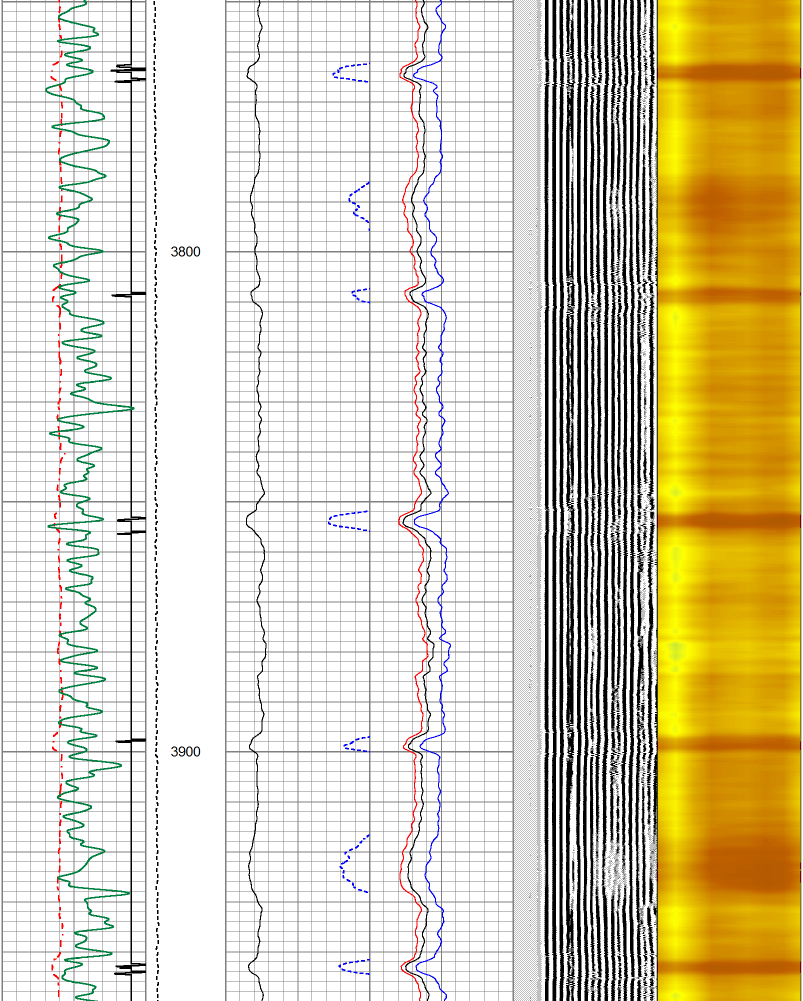
MAIN PASS

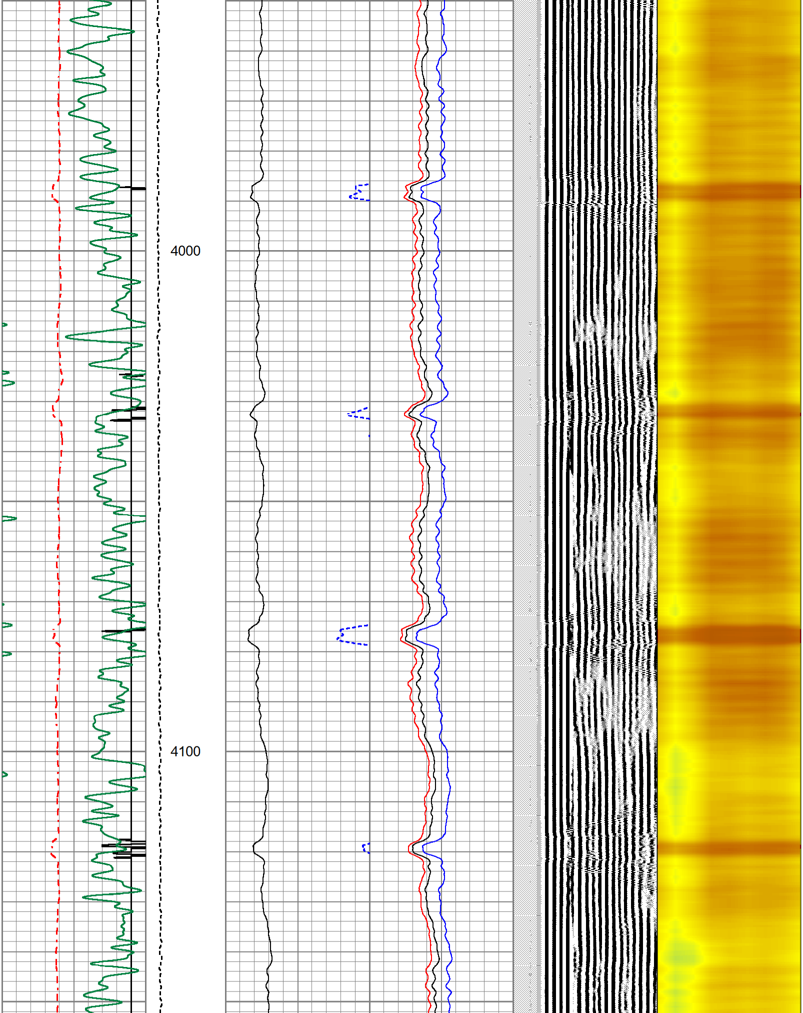
LOG RAN WITH 0 PSI SURFACE INDUCED PRESSURE

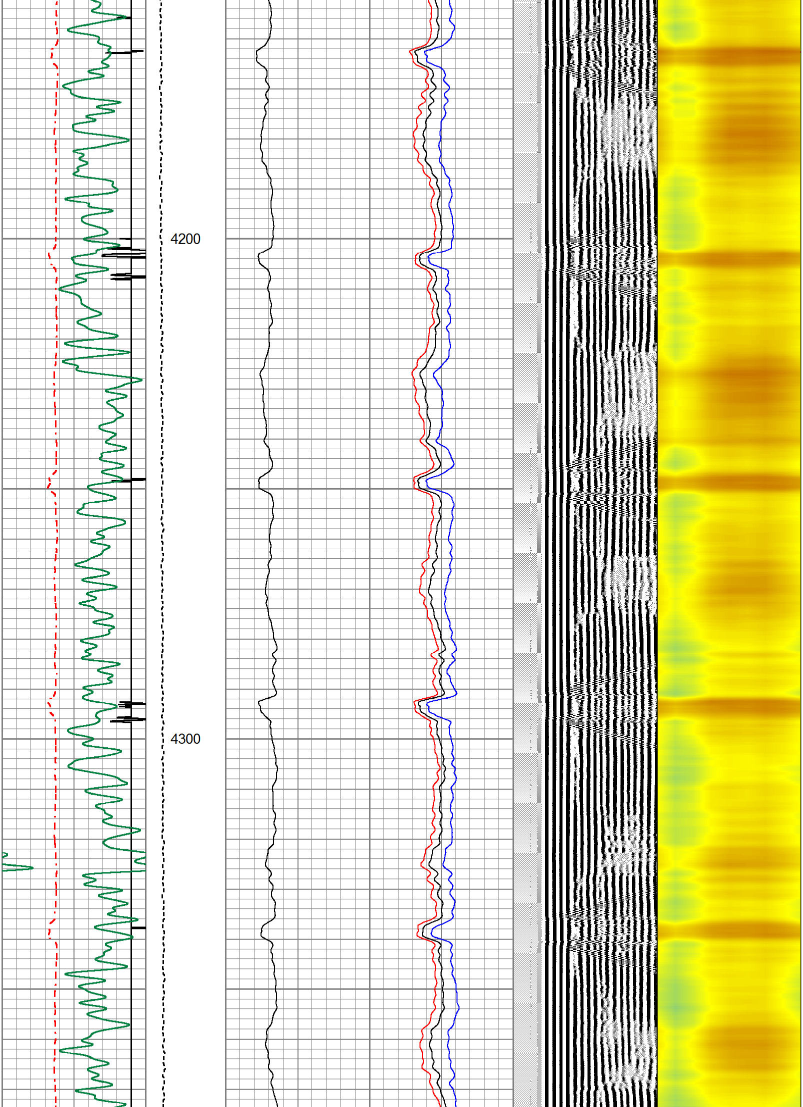
Database File	bayswater_ward_w_20_19hc_rcbl.db
Dataset Pathname	MAIN
Presentation Format	1patriotradii
Dataset Creation	Sat Dec 02 04:30:51 2017
Charted by	Depth in Feet scaled 1:240

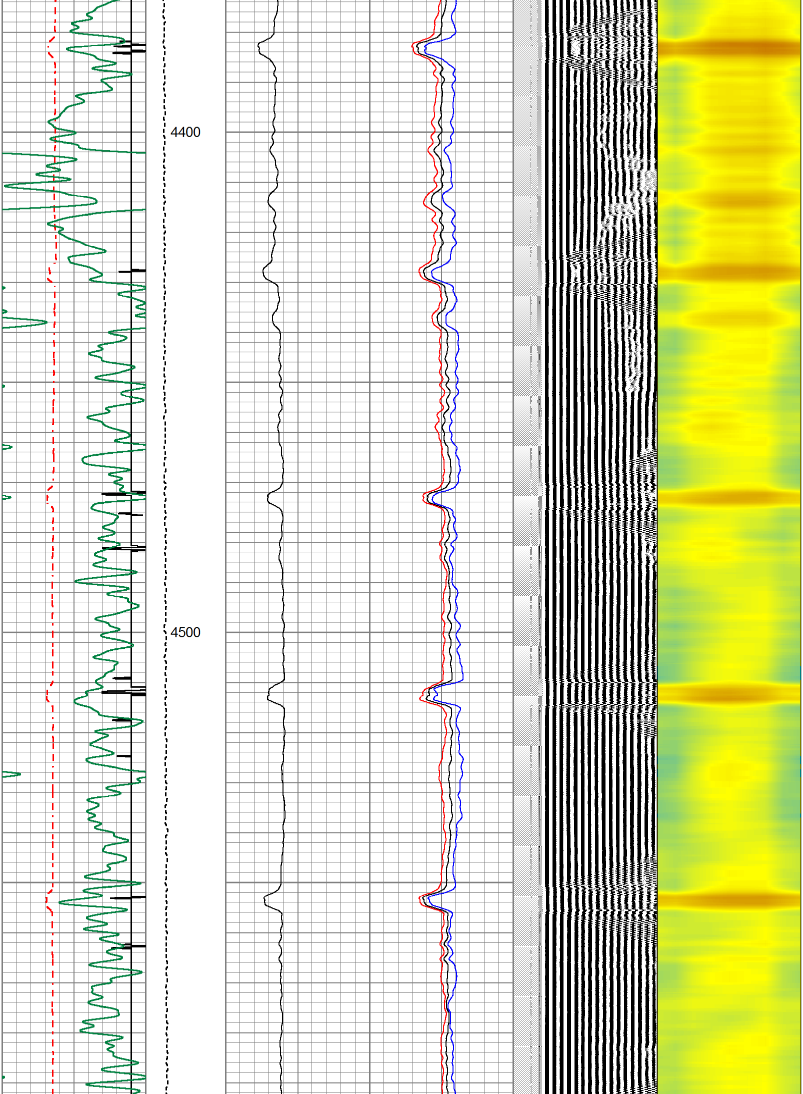

3300
3400
3500

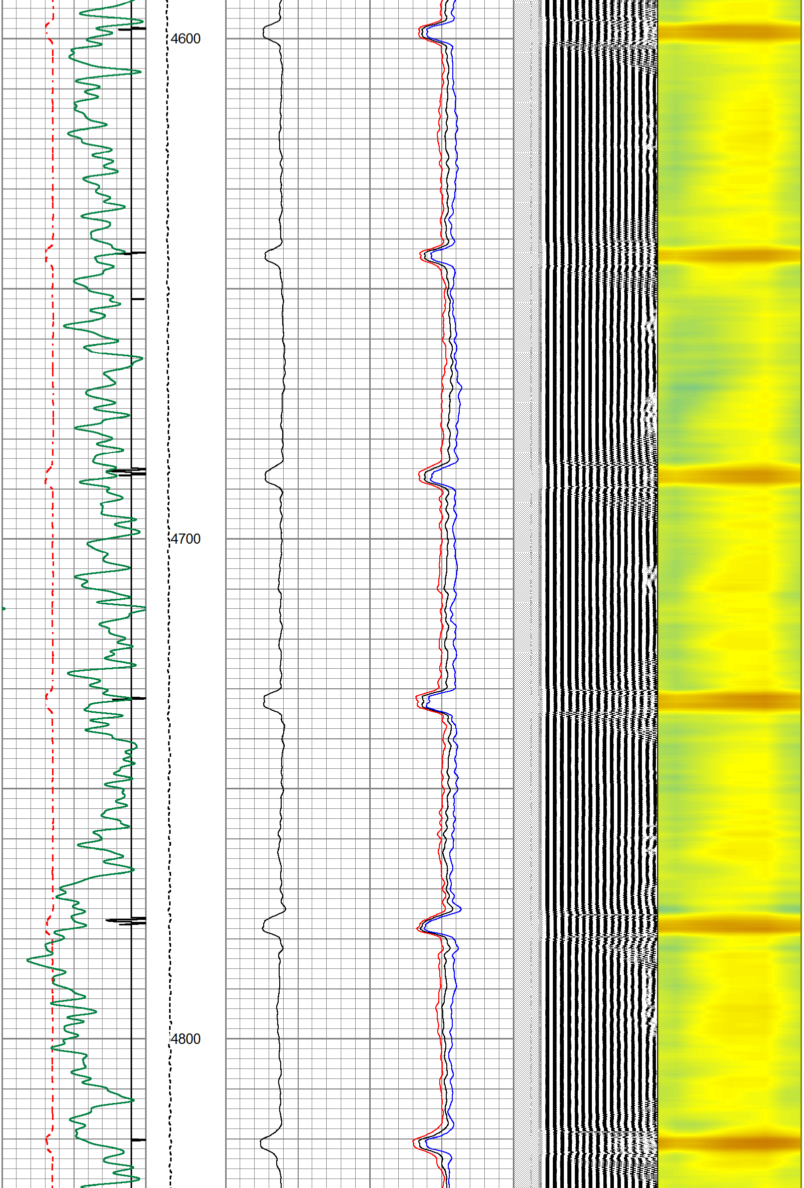

3600
3700

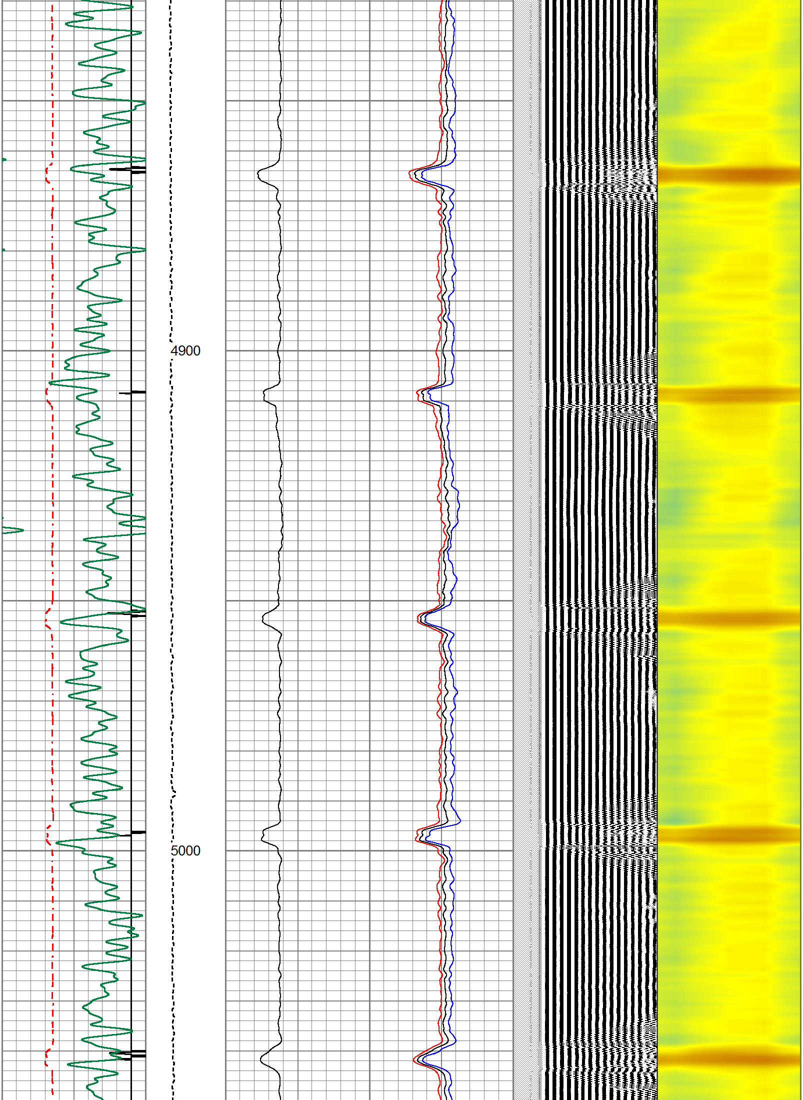

3800
3900

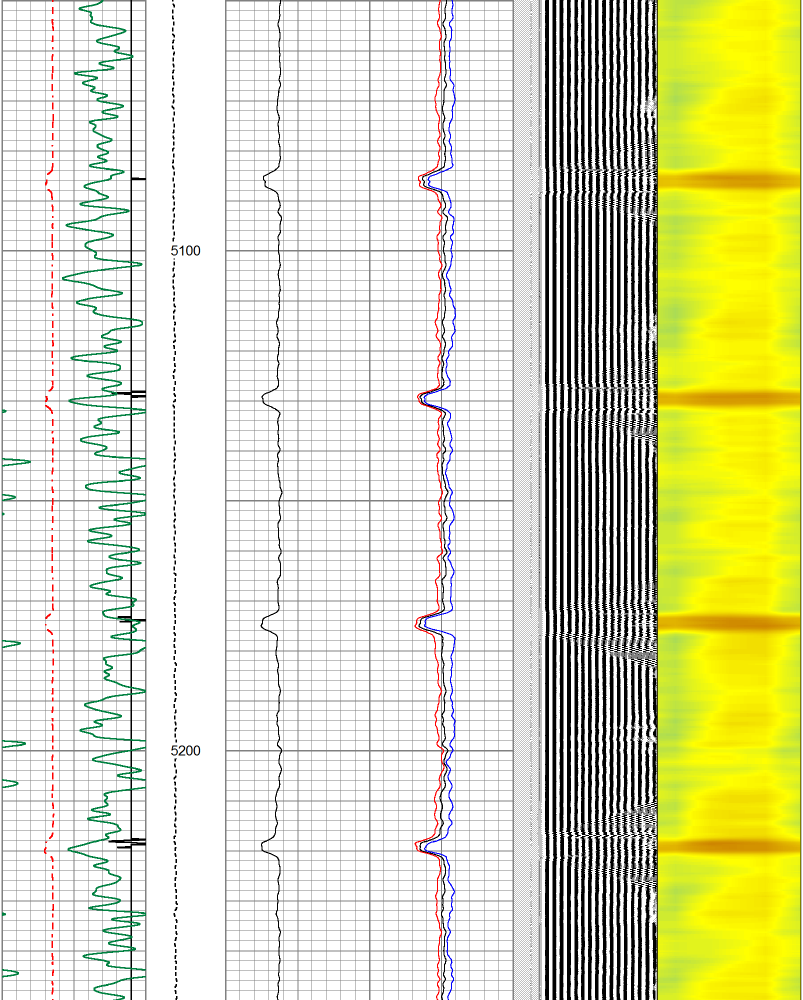

4000
4100

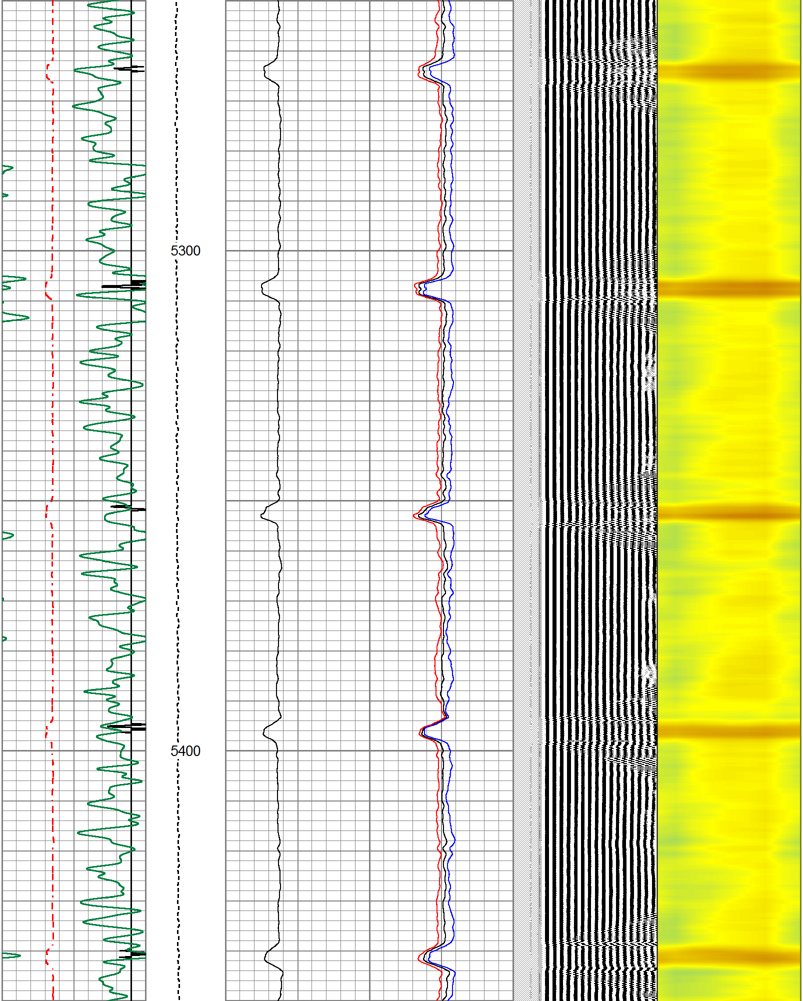

4200
4300

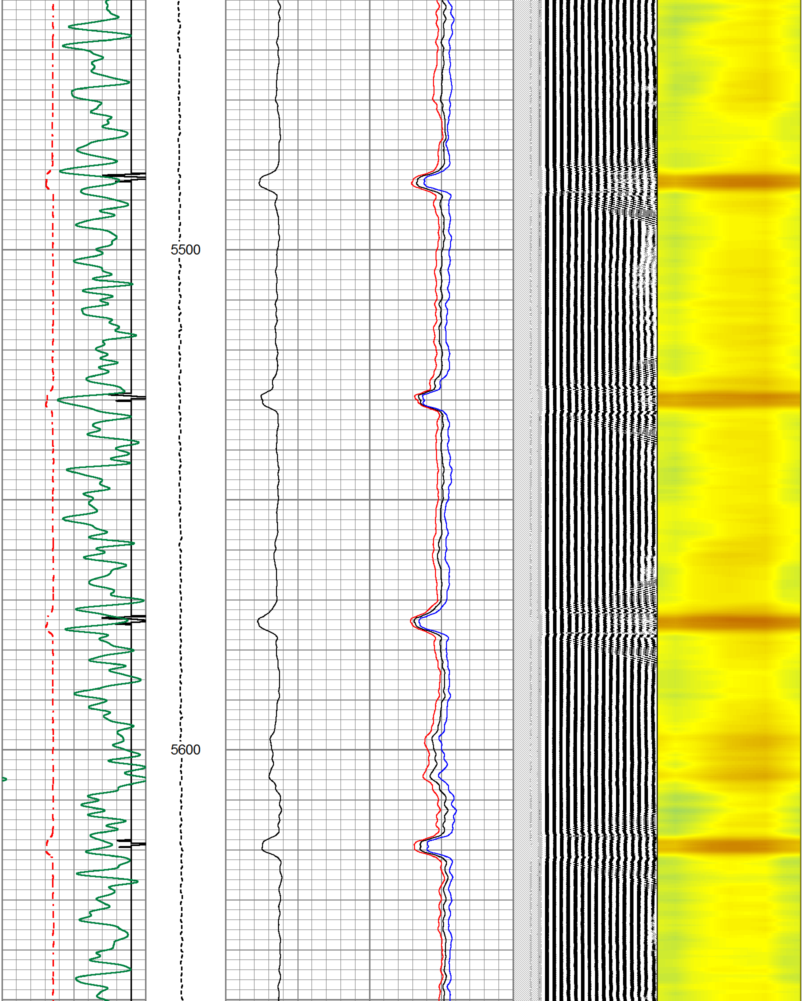

4400
4500

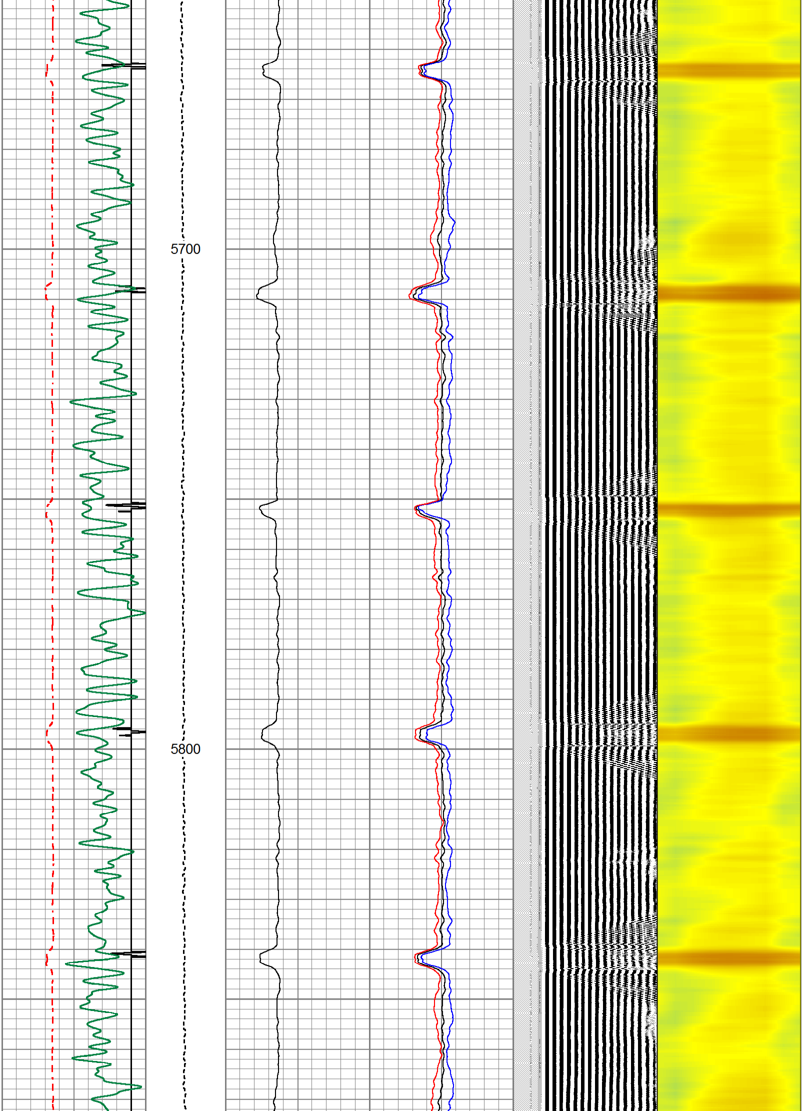

4600
4700
4800

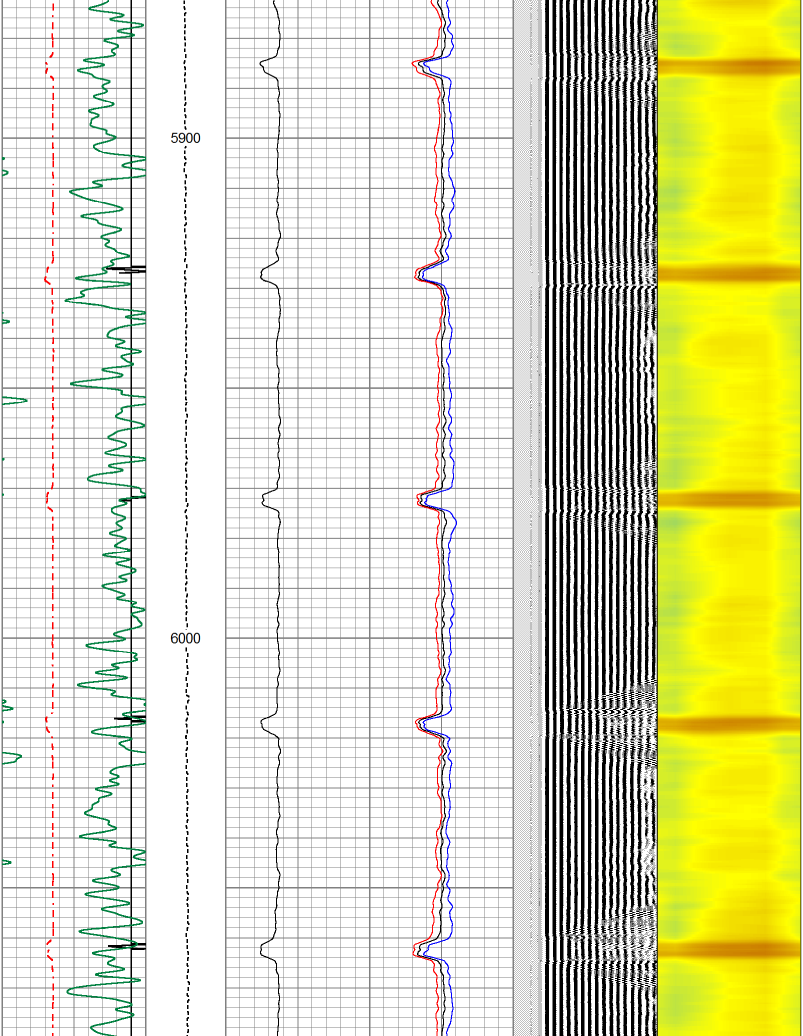

4900
5000

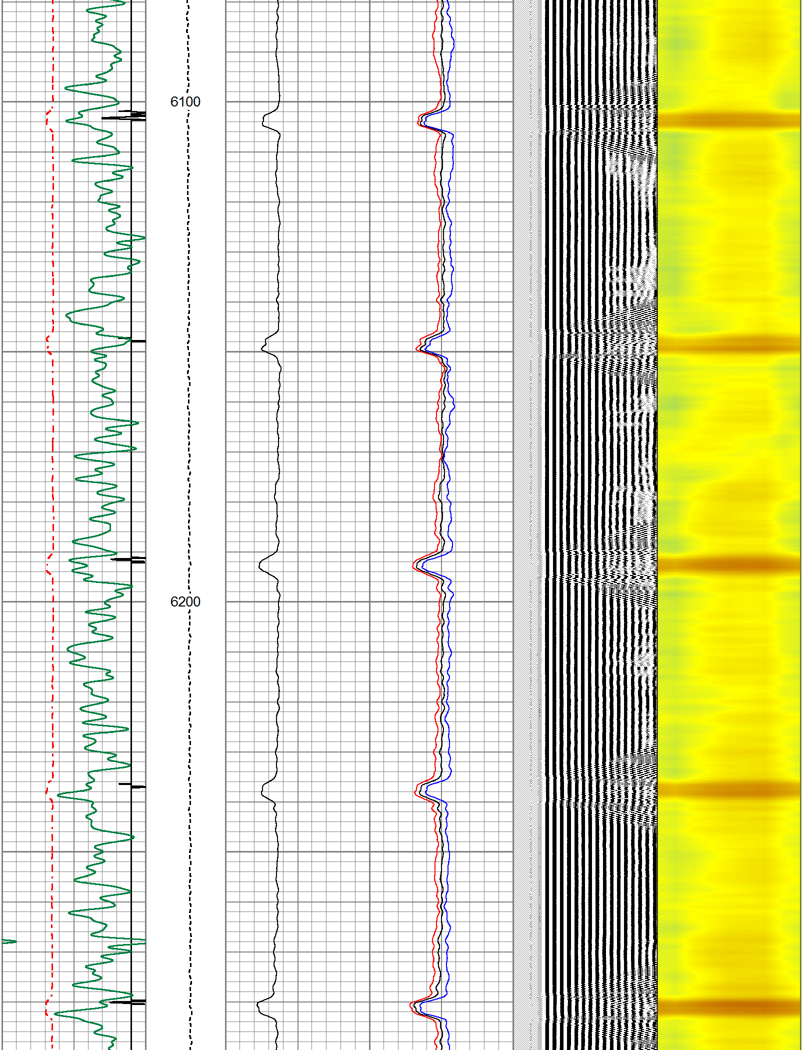

5100
5200

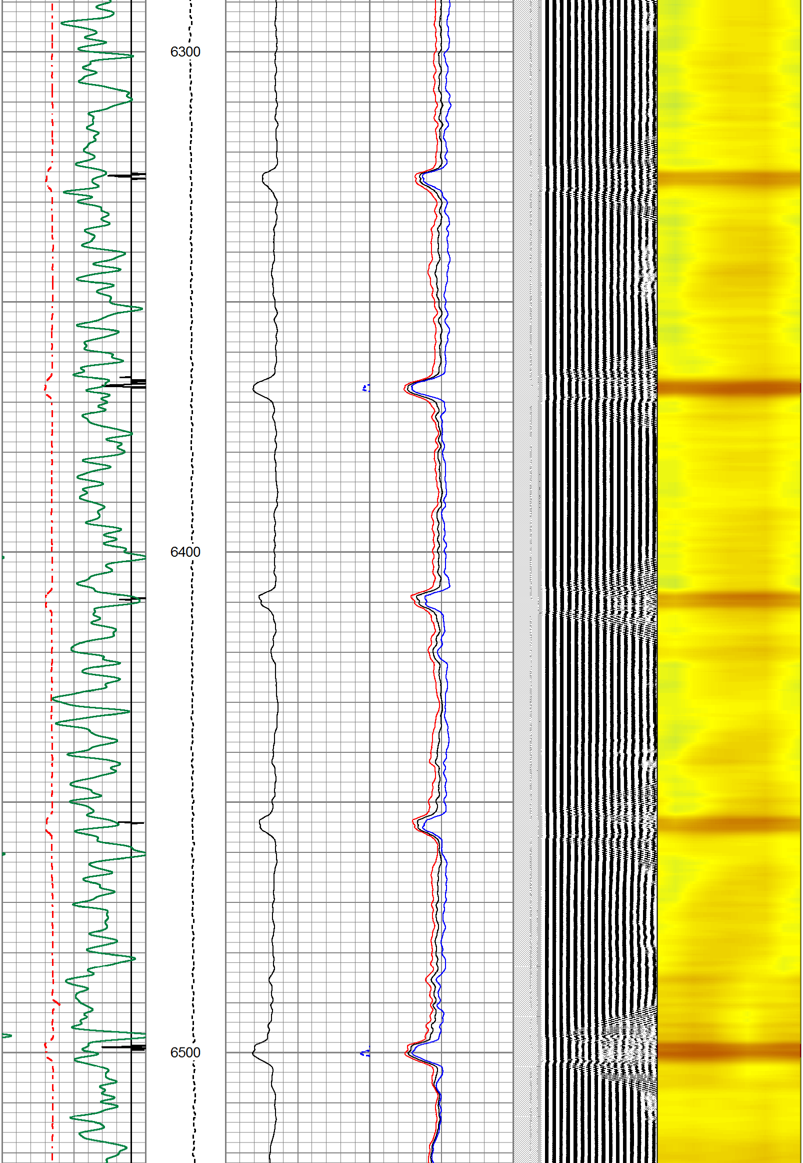

5300
5400

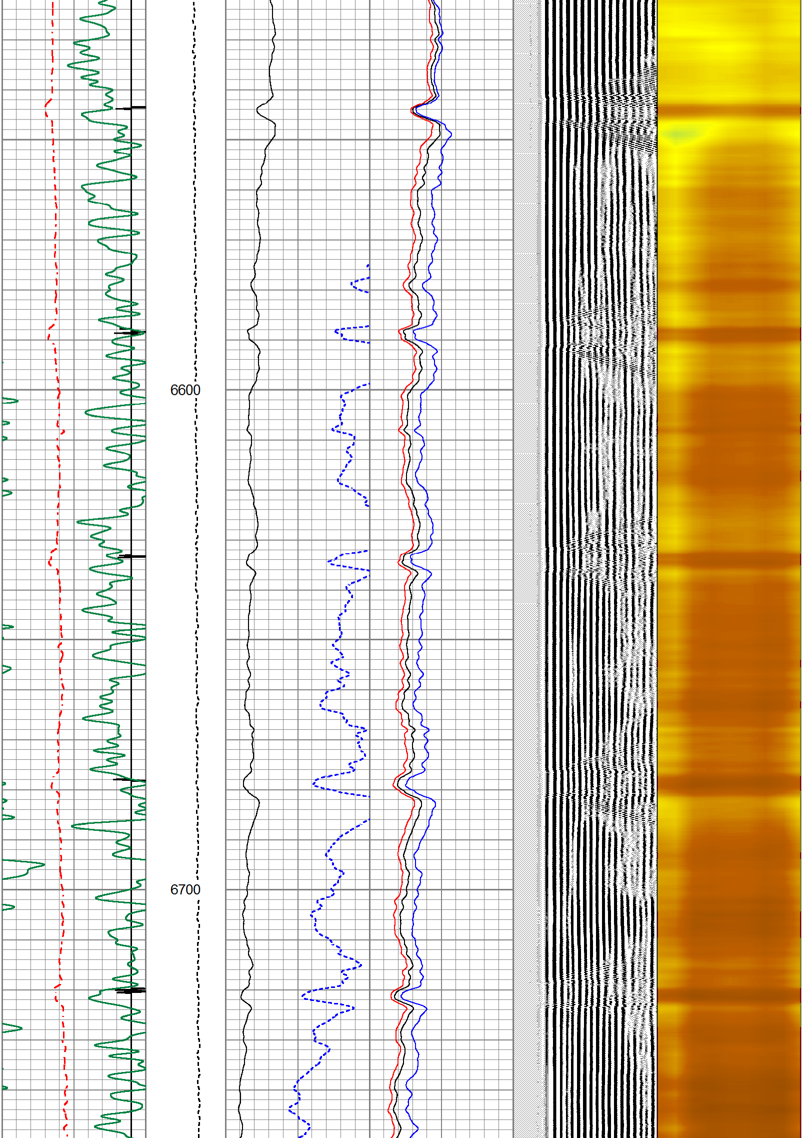

5500
5600

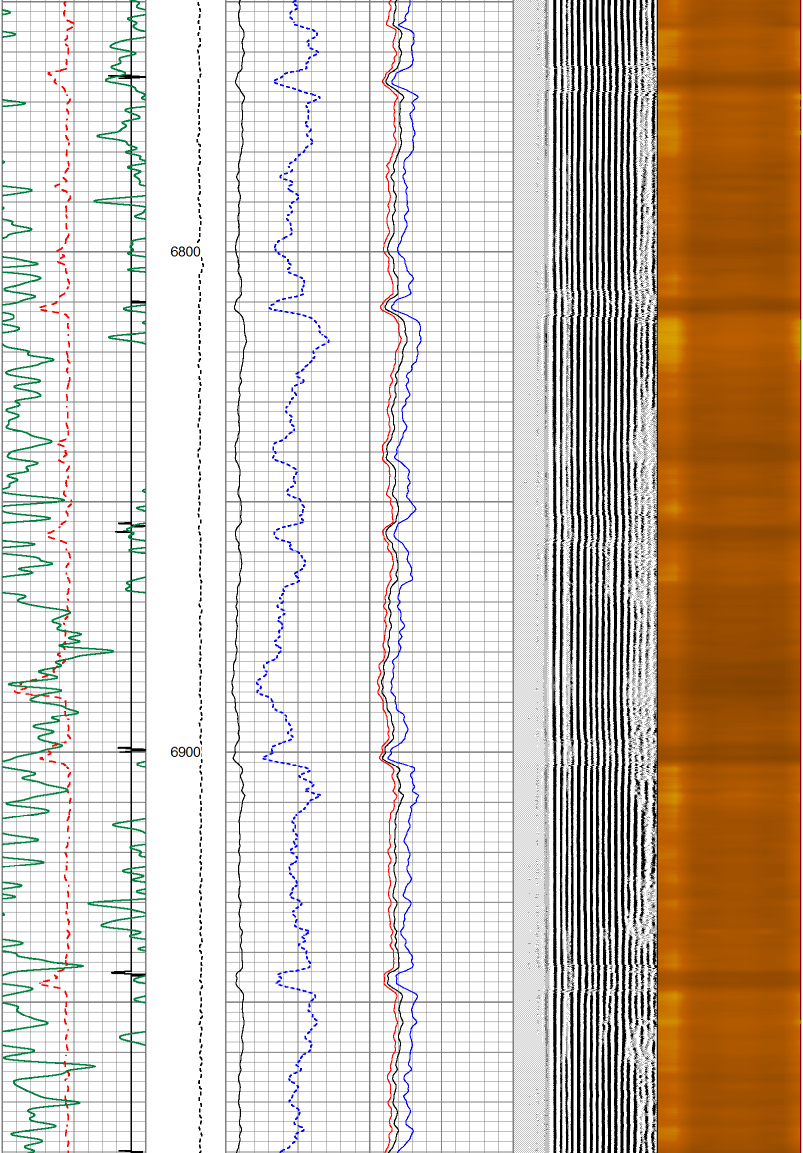

5700
5800

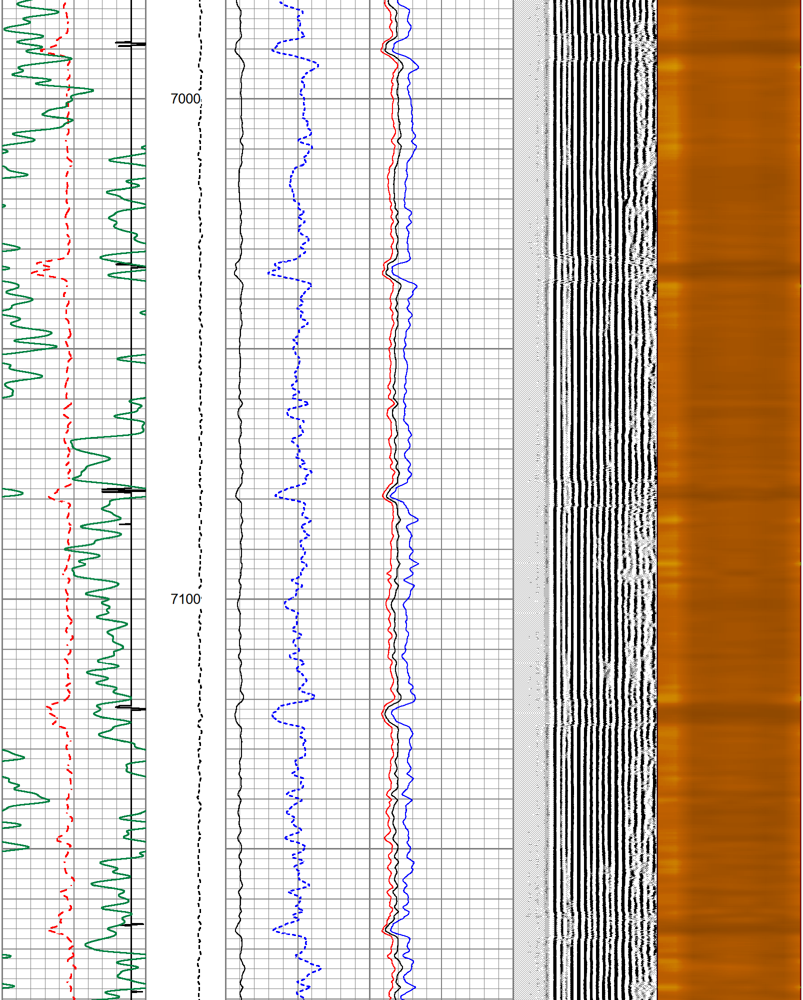

5900
6000

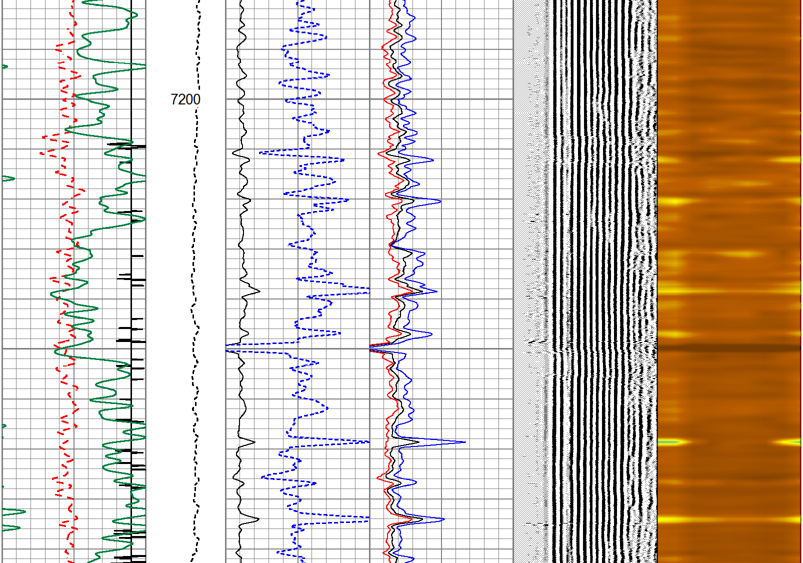

6100
6200

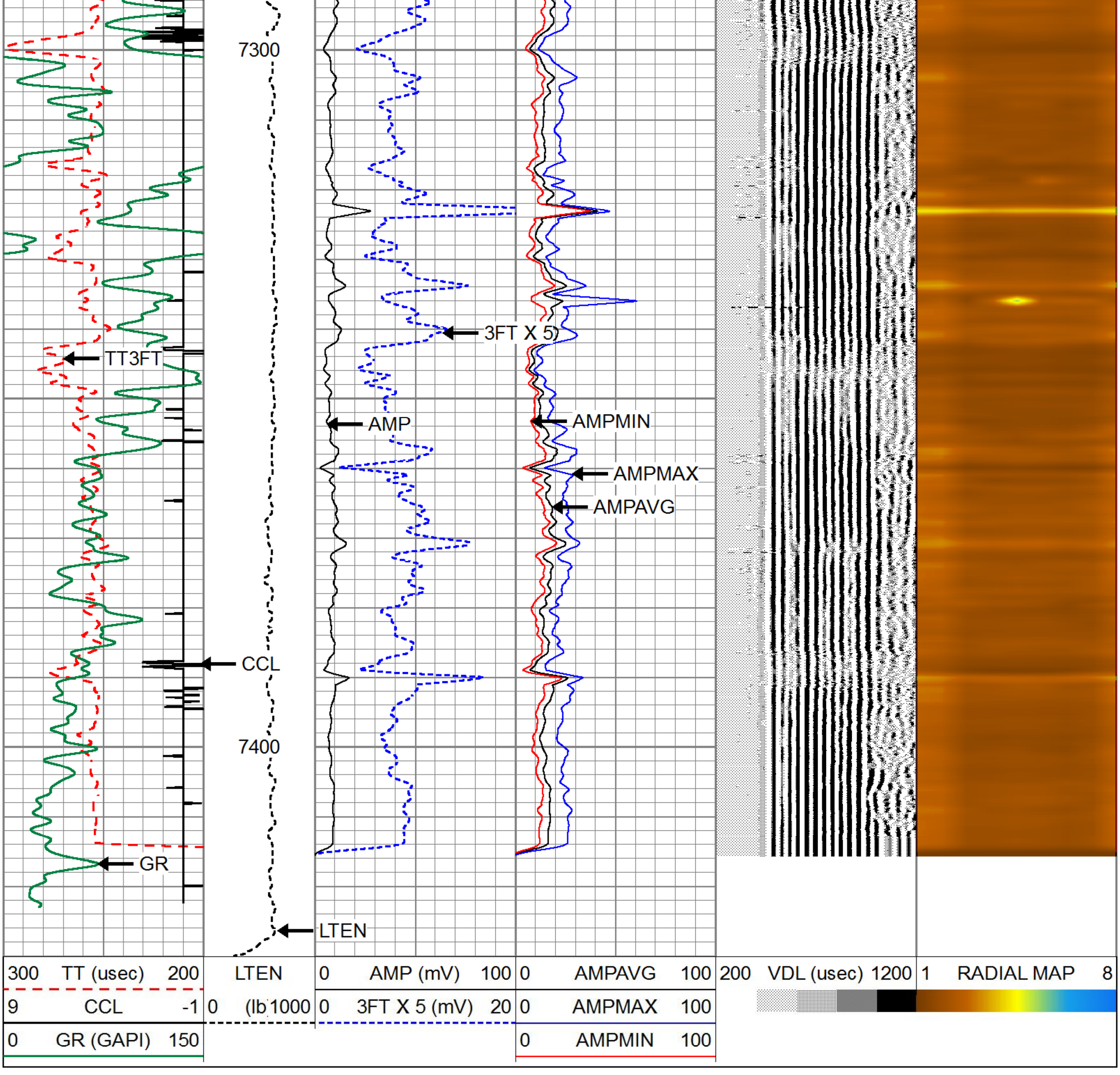

6300
6400
6500


6600
6700


6800
6900


7000
7100


7200

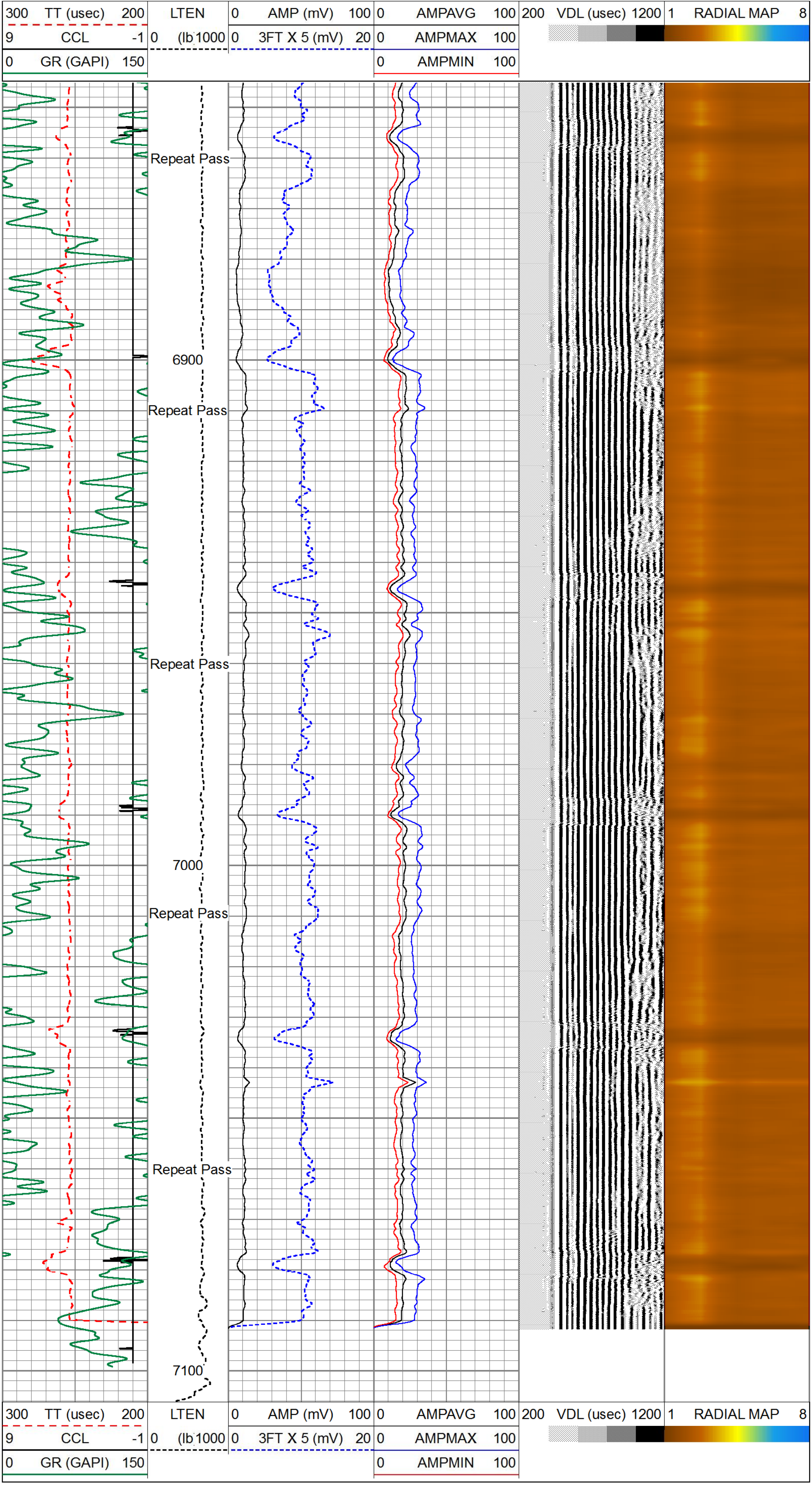


PATRIOT
WELL SOLUTIONS

REPEAT PASS

LOG RAN WITH 0 PSI SURFACE INDUCED PRESSURE

Database File	bayswater_ward_w_20_19hc_rcbl.db
Dataset Pathname	repeat
Presentation Format	1patriotradii
Dataset Creation	Sat Dec 02 04:24:05 2017
Charted by	Depth in Feet scaled 1:240



PATRIOT
WELL SOLUTIONS

Company	Bayswater Exploration & Production LLC
Well	Ward W-20-19HC
Field	Wattenberg
County	Weld
State	Colorado
Country	