



**SECTOR
BOND
LOG**

Company Russell Oil Inc Well Dorothy #21-1 Field Rumback County Logan State KS Country Kansas	Company Russell Oil Inc Well Dorothy #21-1 Field Rumback County Logan State KS Country Kansas
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Location: 2045' FNL & 2310' FWL SEC 21 TWP 11S RGE 32W Permanent Datum Ground Level Elevation 3037' Log Measured From KB 7' AGL Drilling Measured From KB	Other Services Elevation K.B. 3045' D.F. 3044' G.L. 3037'
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Date 11-14-17 Run Number One Depth Driller 4720' Depth Logger 4683' Bottom Logged Interval 4680' Top Log Interval 3500' Open Hole Size 7 7/8" Type Fluid Water Density / Viscosity IIII Max. Recorded Temp. 116 degF Estimated Cement Top 3620' Time Well Ready ROA Time Logger on Bottom 3:30 p.m. Equipment Number 1729 Location Hays, KS Recorded By L. Smith Witnessed By Mr. Todd Brown	
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Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String				WqdFI			
Prot. String					00"		Bottom 344'
Production String				4 1/2"	0		4713'
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

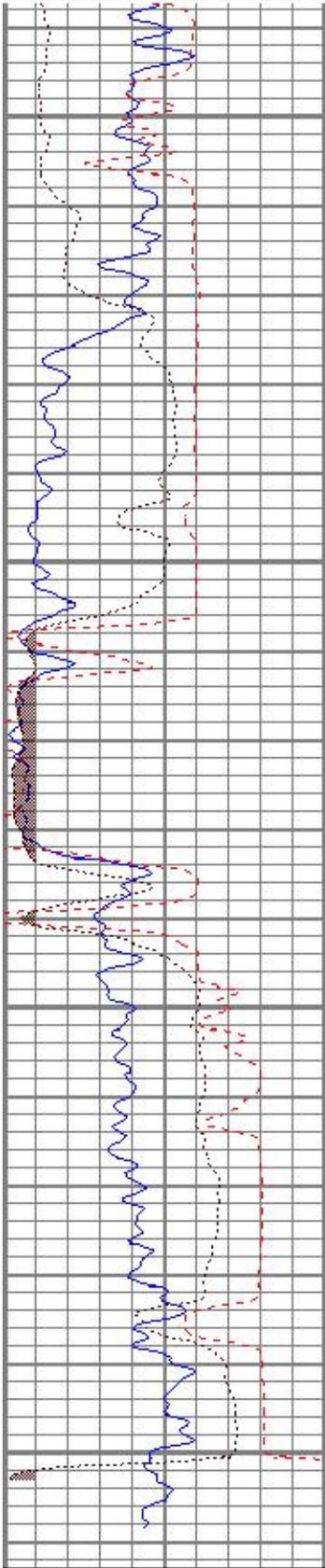
Thanks for using Gemini Wireline LLC
785-625-1182

Database File	rodorothy21-1scbl.db
Dataset Pathname	pass8
Presentation Format	ksectorco
Dataset Creation	Tue Nov 14 16:12:37 2017
Charted by	Depth in Feet scaled 1:240

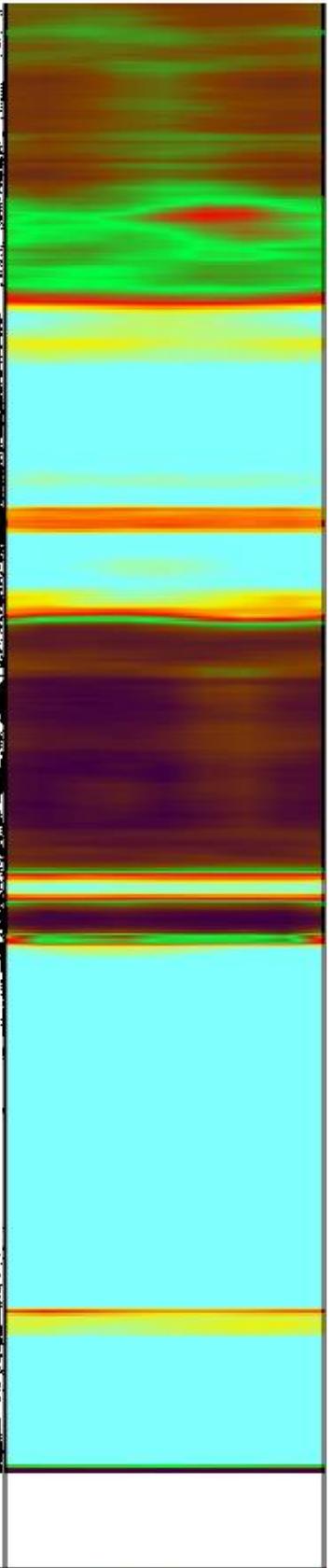
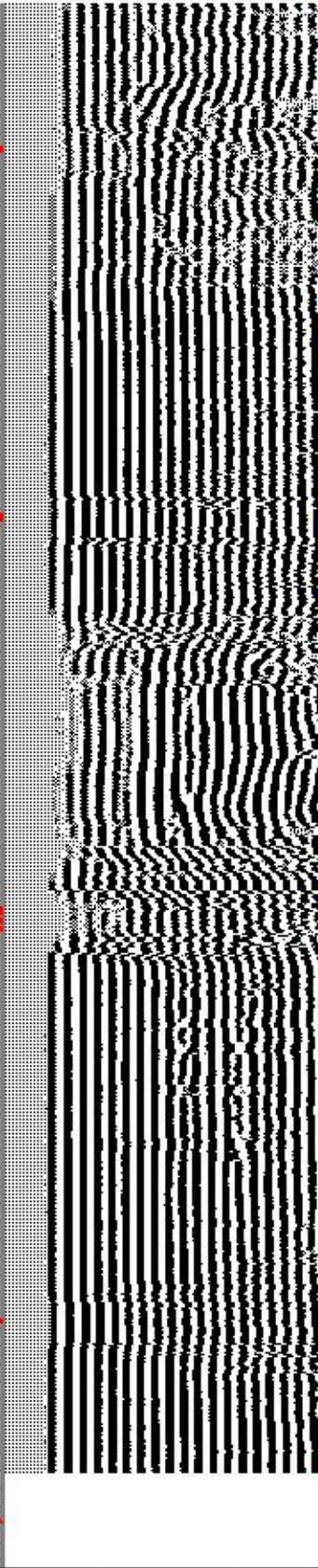
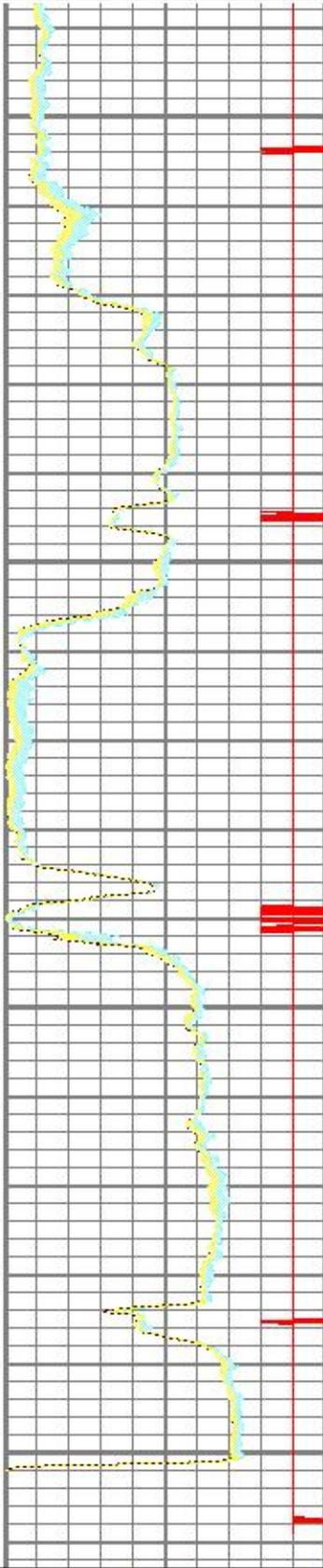
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400 TT3FT (usec)	200
0 AMP3FT (mV)	100

0 AMPMAX	100
0 AMPAVG	100
0 AMPMIN	100
18 CCL	-2

200 WVF5FT (usec)	1200	
1	Sector Map	8



2500
2550
2600
2650



0 GR (GAPI)	150
400 TT3FT (usec)	200
0 AMP3FT (mV)	100

0 AMPMAX	100
0 AMPAVG	100
0 AMPMIN	100
18 CCL	-2

200 WVF5FT (usec)	1200	
1	Sector Map	8



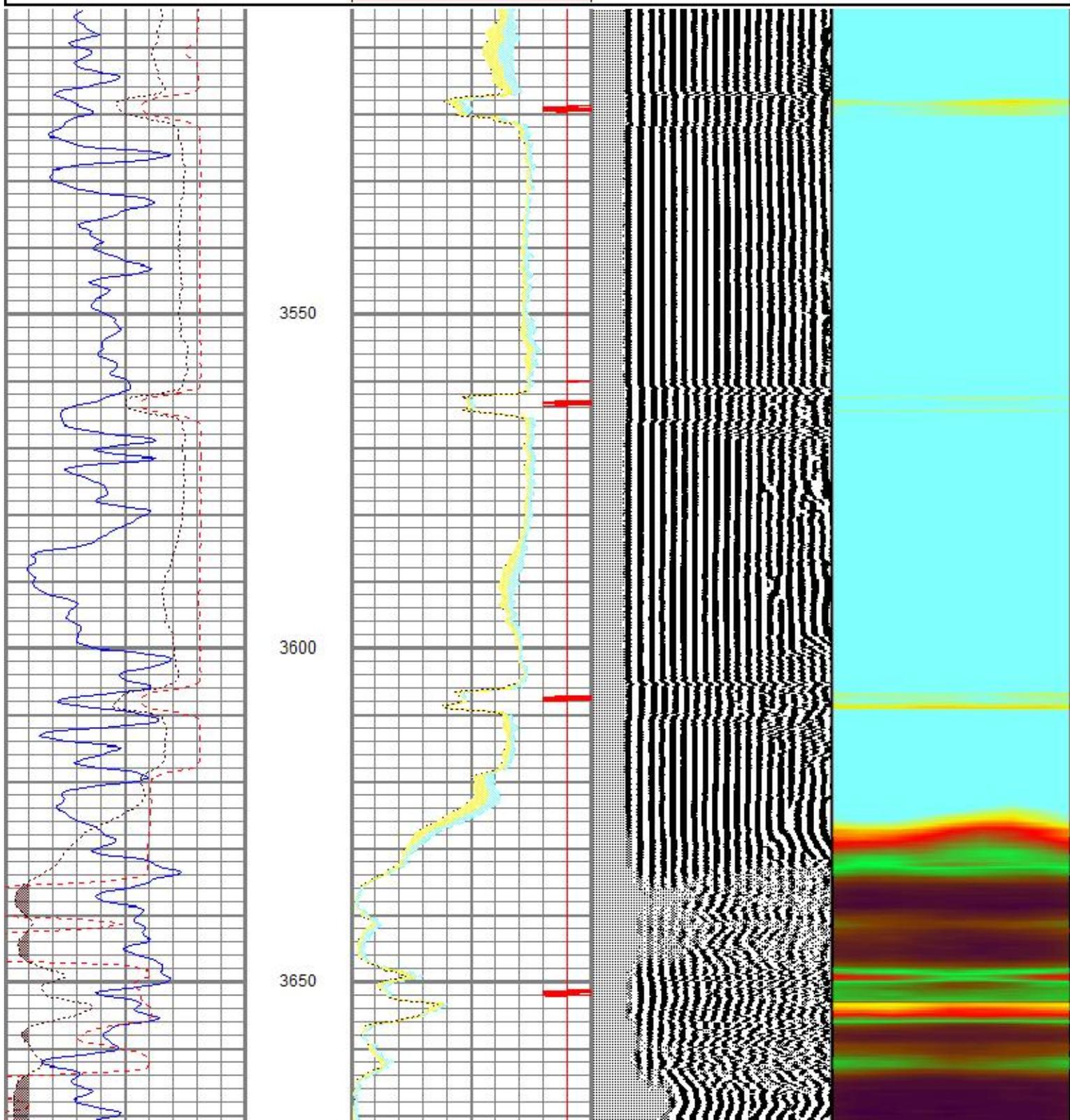
Main Pass

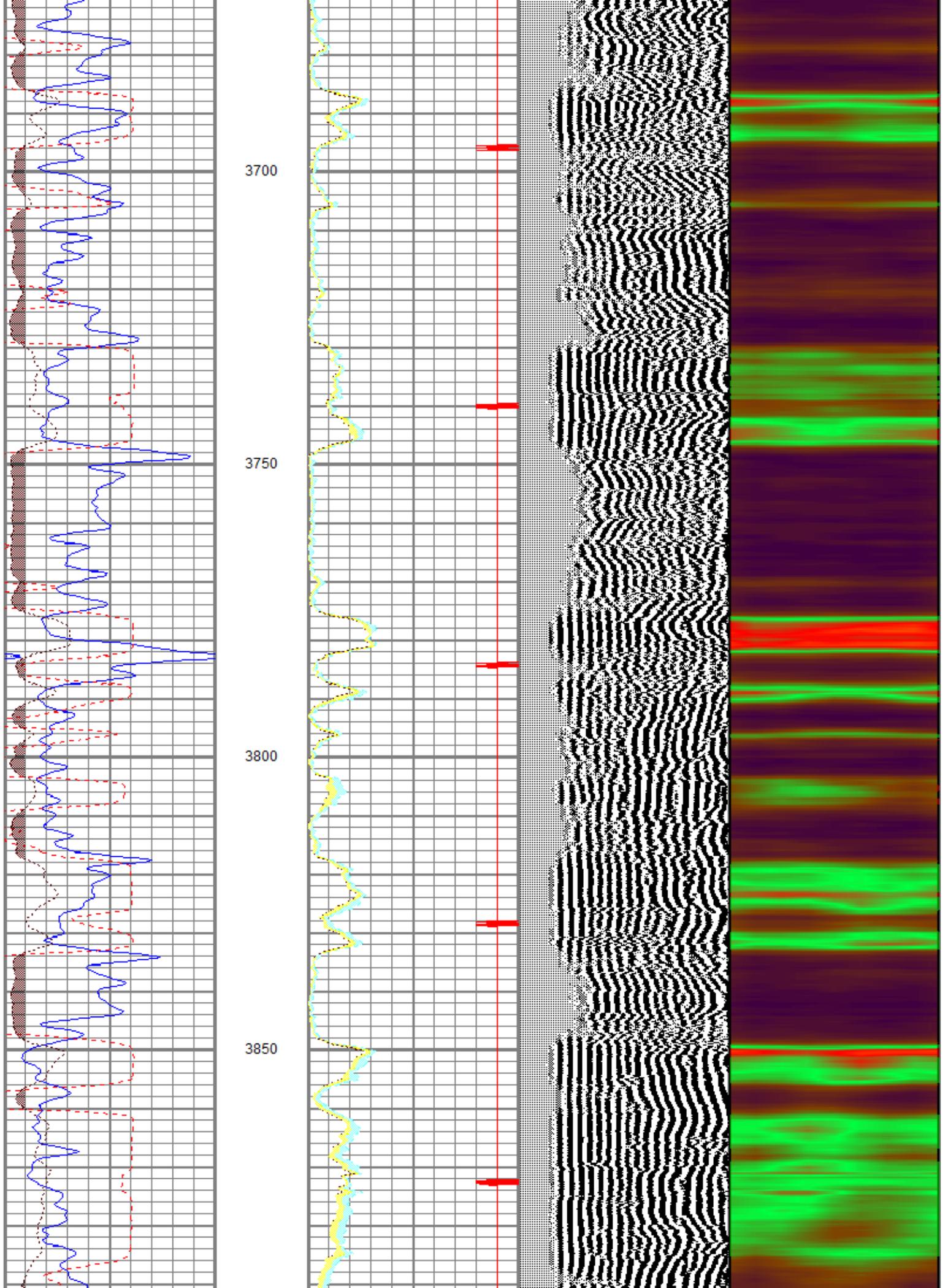
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Presentation Format ksectorco
Dataset Creation Tue Nov 14 15:47:20 2017
Charted by Depth in Feet scaled 1:240

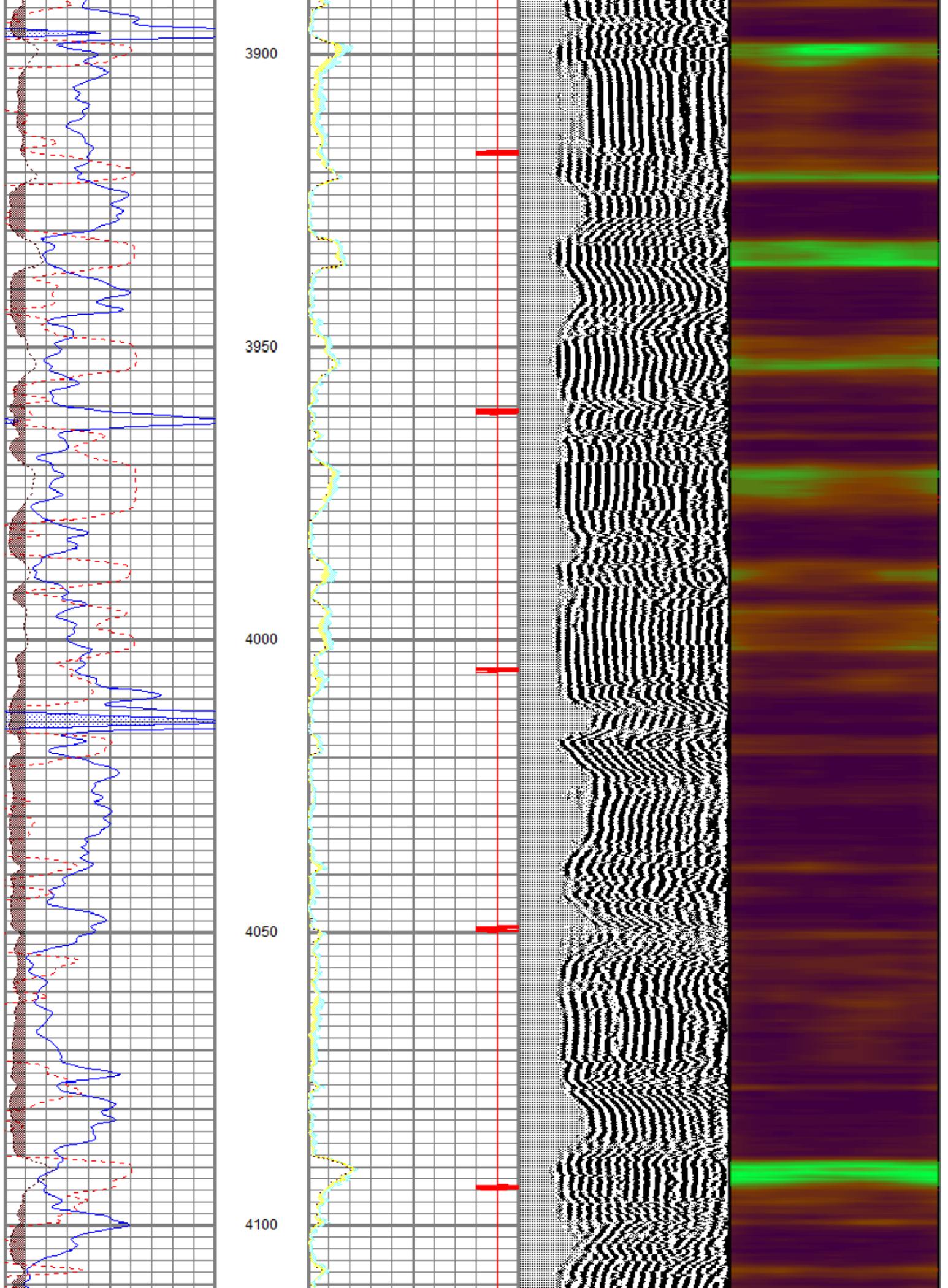
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400	TT3FT (usec)	200
0	AMP3FT (mV)	100

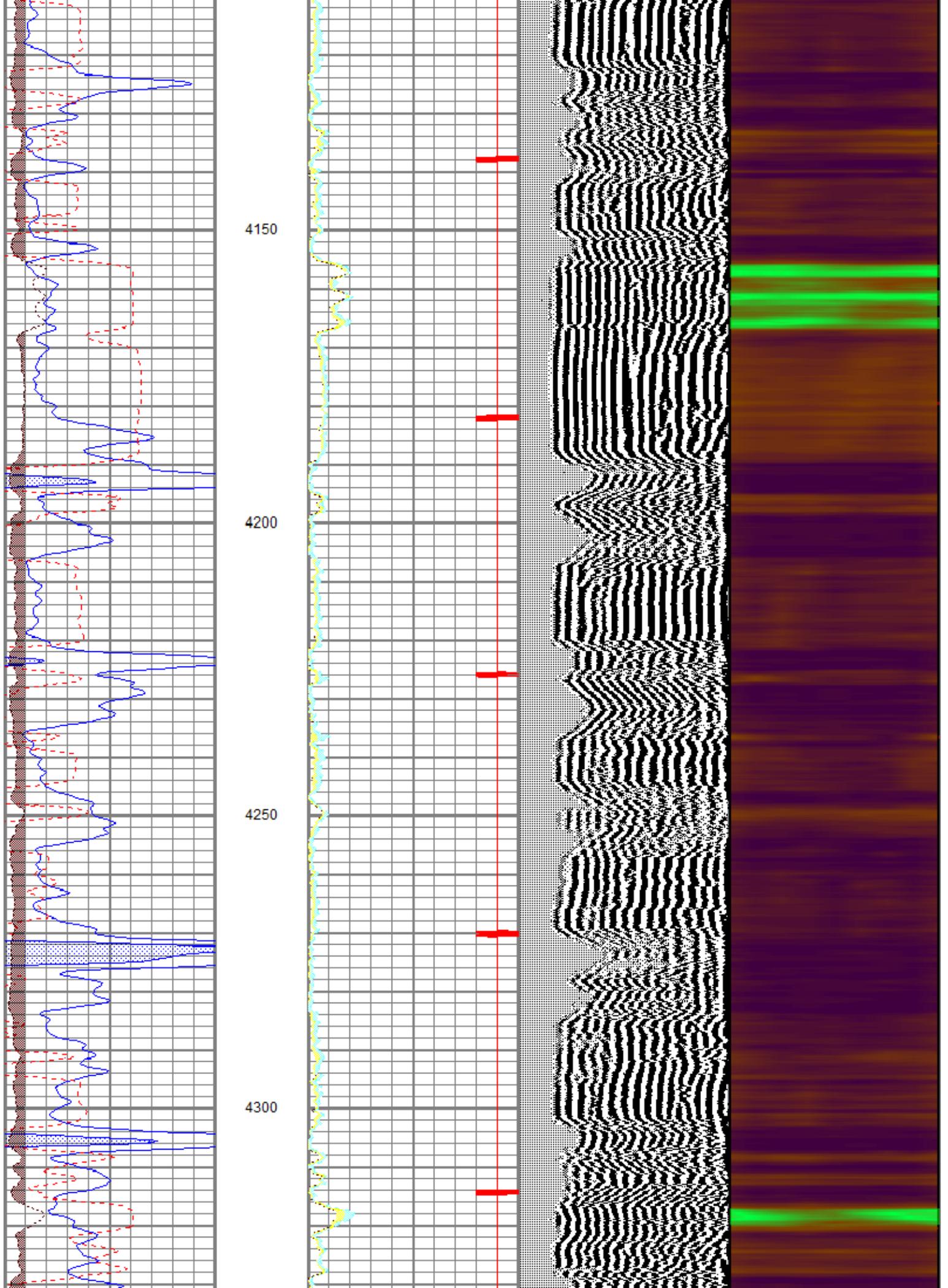
0	AMPMAX	100
0	AMPAVG	100
0	AMPMIN	100
18	CCL	-2

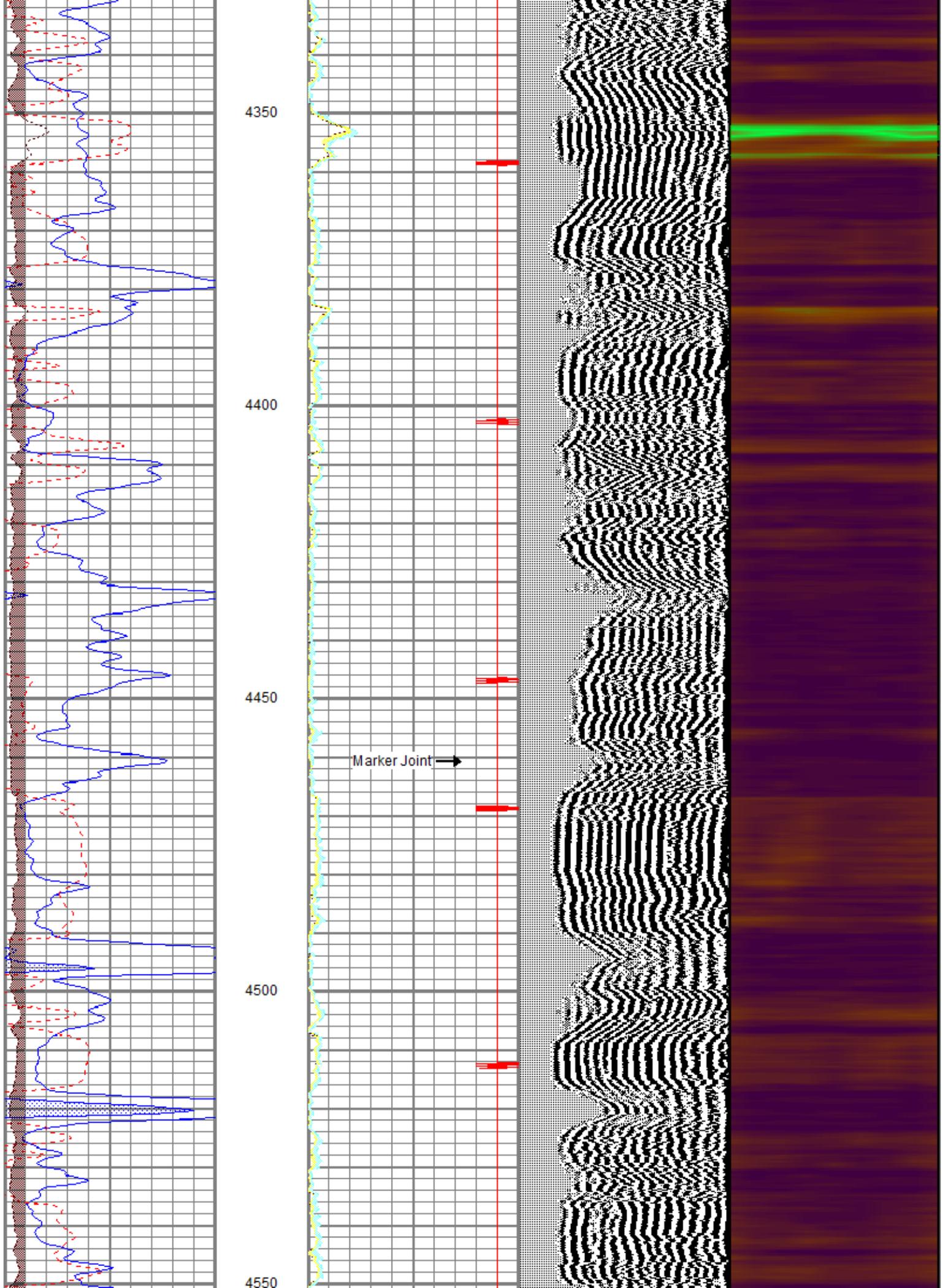
200 WVF5FT (usec) 1200 1 Sector Map 8

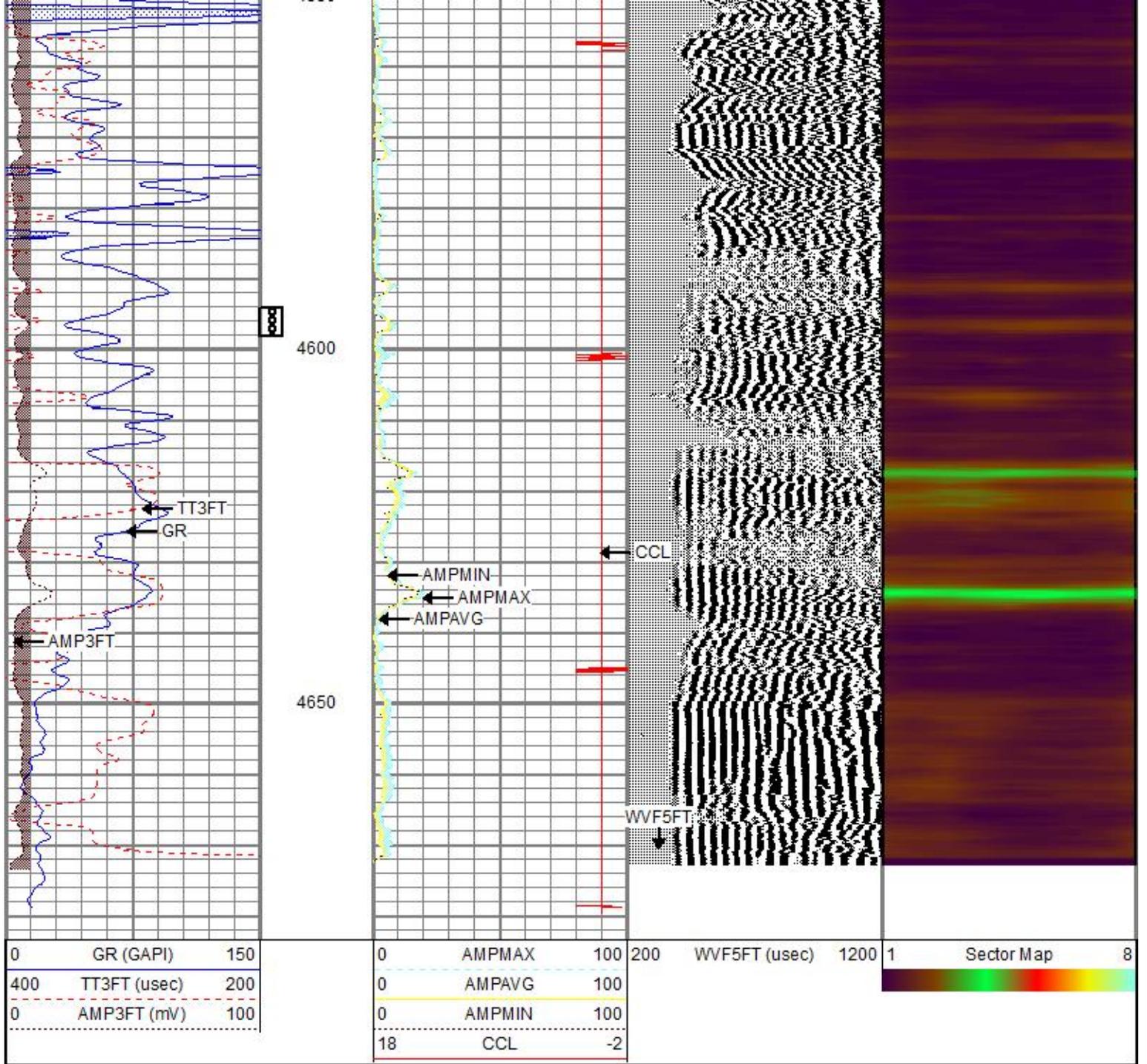






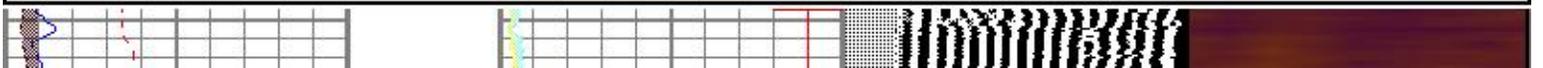
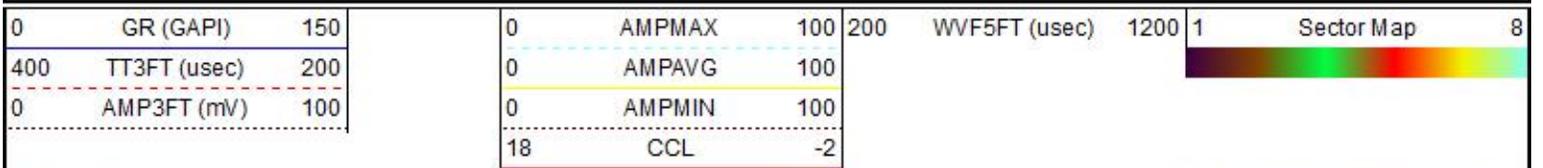


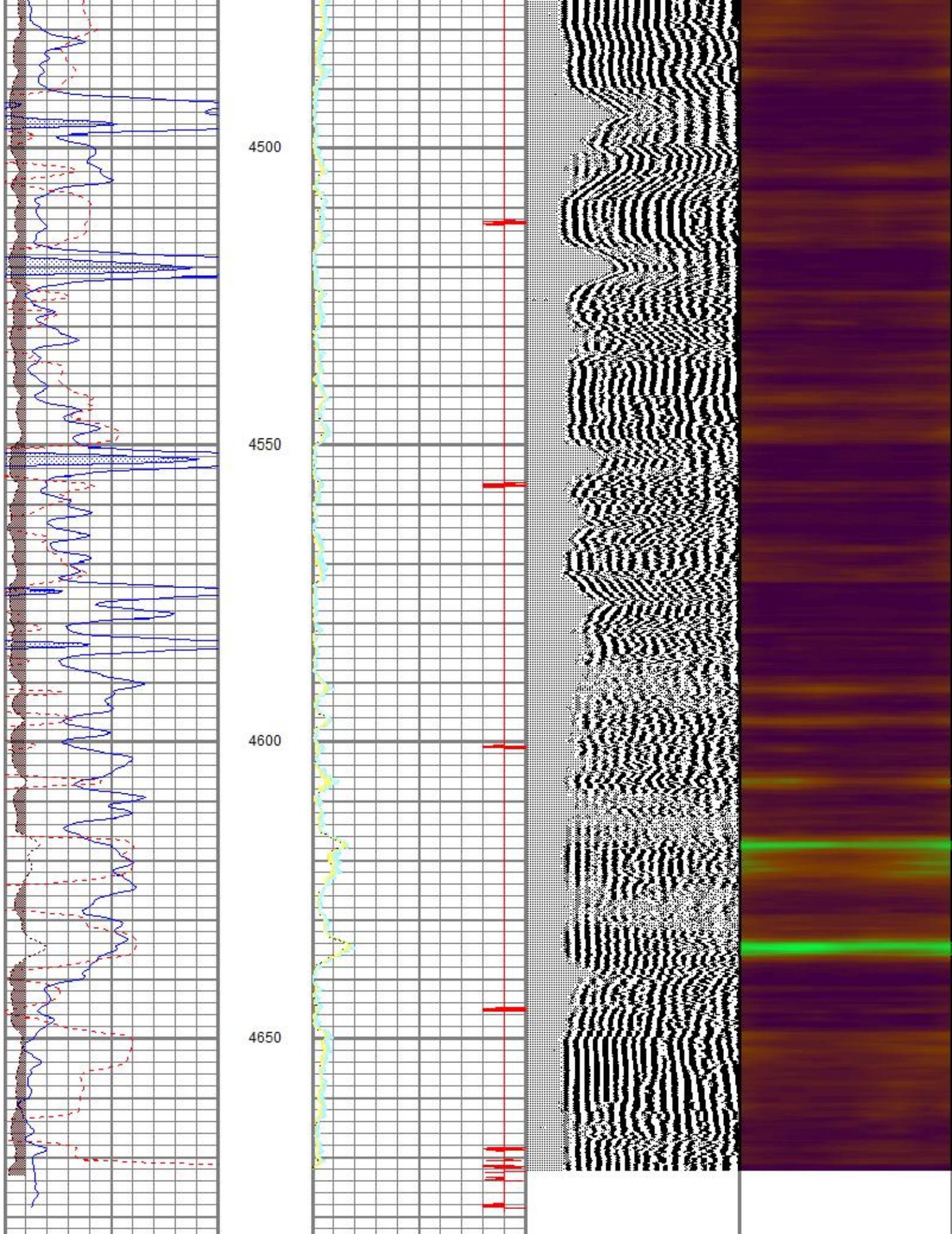




Repeat Pass

Database File: rodorothy21-1scbl.db
 Dataset Pathname: pass6
 Presentation Format: ksectorco
 Dataset Creation: Tue Nov 14 15:40:13 2017
 Charted by: Depth in Feet scaled 1:240





0	GR (GAPI)	150
400	TT3FT (usec)	200
0	AMP3FT (mV)	100

0	AMPMAX	100
0	AMPAVG	100
0	AMPMIN	100

200	WVF5FT (usec)	1200
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1	Sector Map	8
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Calibration Report

Database File rodorothy21-1scbl.db
 Dataset Pathname pass8
 Dataset Creation Tue Nov 14 16:12:37 2017

Gamma Ray Calibration Report

Serial Number: 80224
 Tool Model: P1
 Performed: Fri Oct 30 11:00:09 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.9000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 080321
 Tool Model: ProbeRadial

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 2734.931 ft

Master Calibration, performed Tue Nov 14 15:21:51 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.028	2.000	71.921	68.234	1.781
CAL	0.003	1.414				
5'	0.003	0.819	2.000	71.921	85.731	1.708
SUM						
S1	0.003	1.025	0.000	72.000	70.482	-0.212
S2	0.003	1.024	0.000	72.000	70.518	-0.220
S3	0.003	1.020	0.000	72.000	70.833	-0.225
S4	0.003	1.059	0.000	72.000	68.196	-0.226
S5	0.003	1.094	0.000	72.000	65.972	-0.168
S6	0.003	1.054	0.000	72.000	68.452	-0.178
S7	0.004	1.021	0.000	72.000	70.823	-0.286
S8	0.003	0.996	0.000	72.000	72.514	-0.239

Internal Reference Calibration, performed Tue Nov 14 15:21:19 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	1.414	1.000	0.000

Air Zero Calibration, performed Tue Nov 14 15:20:31 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

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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
			CHD-None	0.75	1.50	5.00	
			CENT-X	3.00	1.69	25.00	
WVFS8	11.75			SCBL-ProbeRadial (080321) Probe 2 3/4 Radil	8.75	2.75	106.50
WVFS7	11.75						
WVFS6	11.75						
WVFS5	11.75						
WVFS4	11.75						
WVFS3	11.75						
WVFS2	11.75			CENT-X	3.00	1.69	25.00
WVFS1	11.75						
WVF3FT	11.75		CCL-CCLProbe (80224)	1.42	2.75	20.00	
WVF5FT	10.75						
WVFCAL	7.50						
CCL	3.67		GR-P1 (80224) Probe 2.75 GR detector in top	3.08	2.75	30.00	
GR	2.30						
		Dataset:	rodorothy21-1scbl.db: field/well/run1/pass8				
		Total length:	20.00 ft				
		Total weight:	211.50 lb				
		O.D.:	2.75 in				