GEMINI WIRELINE

SECTOR BOND LOG

Company American Oil LLC
Well Eller #1-16
Field Solomon
County Ellis State KS

Location: API # : 15 051 26838
2310' FSL & 2310' FEL
SEC 16 TWP 11S RGE 19W

Permanent Datum	Ground Level	Elevation	1969'
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Other Services

Elevation
K.B. 1977'
D.F. 1976'
G.L. 1969'

Company	American Oil LLC
Well	Eller #1-16
Field	Solomon
County	Ellis
State	KS

Date	10-19-16
Run Number	One
Depth Driller	3600
Depth Logger	3535'
Bottom Logged Interval	3534'
Top Log Interval	2250'
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	////
Max. Recorded Temp.	////
Estimated Cement Top	2412'
Time Well Ready	2:10 P.M
Time Logger on Bottom	2:15 P.M
Equipment Number	T-968
Location	Hays, KS
Recorded By	Casey Patterson
Witnessed By	Mr. Zach Patterson / Mr. Adam Folk

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Wgt/Ft	Top	Bottom

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	26#	0'	221'
Prot. String				
Production String	5 1/2"	15.5#	0'	3591'
Liner				

<<< Fold Here >>>

Comments

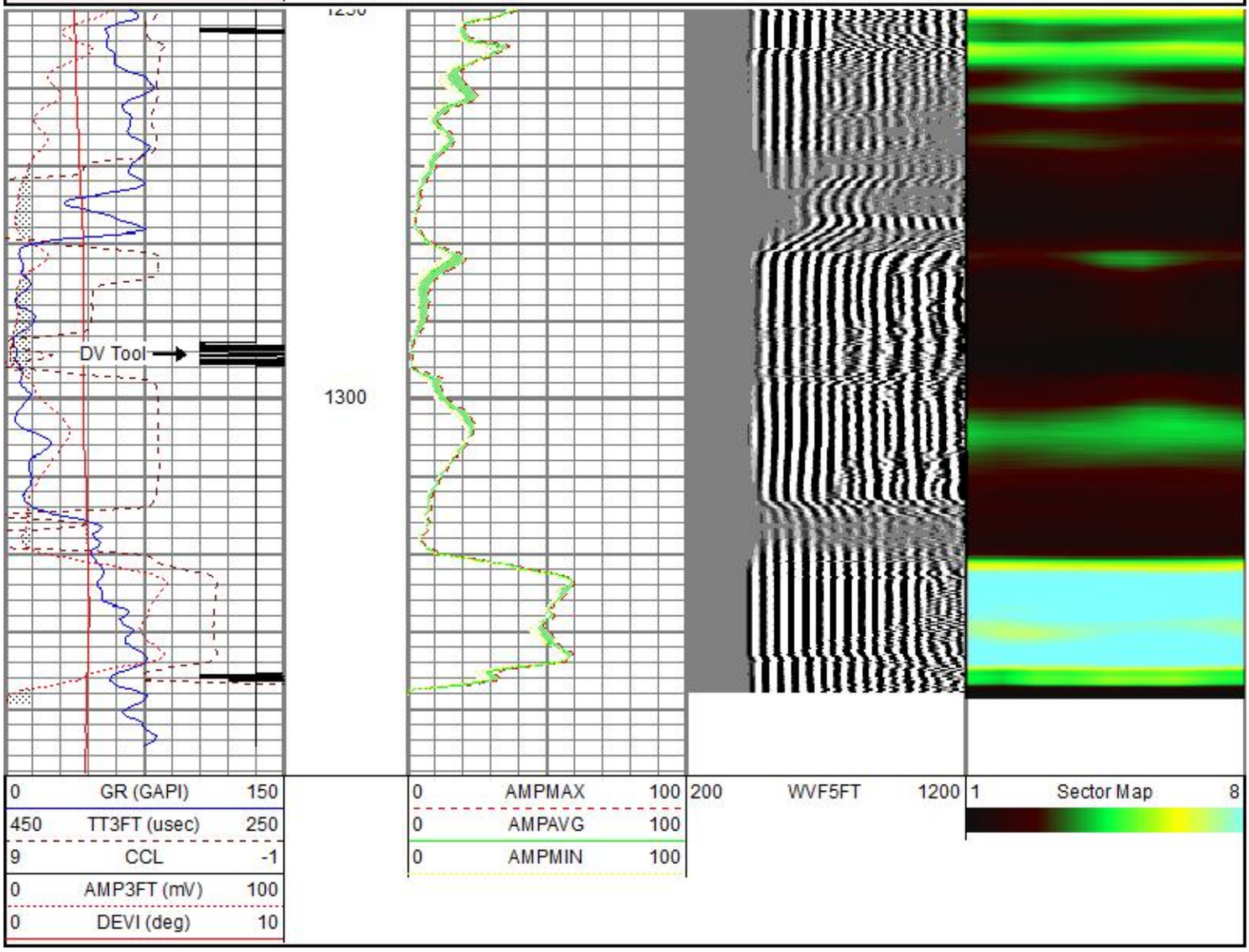
GEMINI WIRELINE

Main Pass

Database File	aoeller#1-16cbl.db
Dataset Pathname	pass3
Presentation Format	sectorco
Dataset Creation	Wed Oct 19 13:54:03 2016
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150	0	AMPMAX	100	200	WVF5FT	1200	1 Sector Map 8
450	TT3FT (usec)	250	0	AMPAVG	100				
9	CCL	-1	0	AMPMIN	100				

0	AMP3FT (mV)	100
0	DEVI (deg)	10

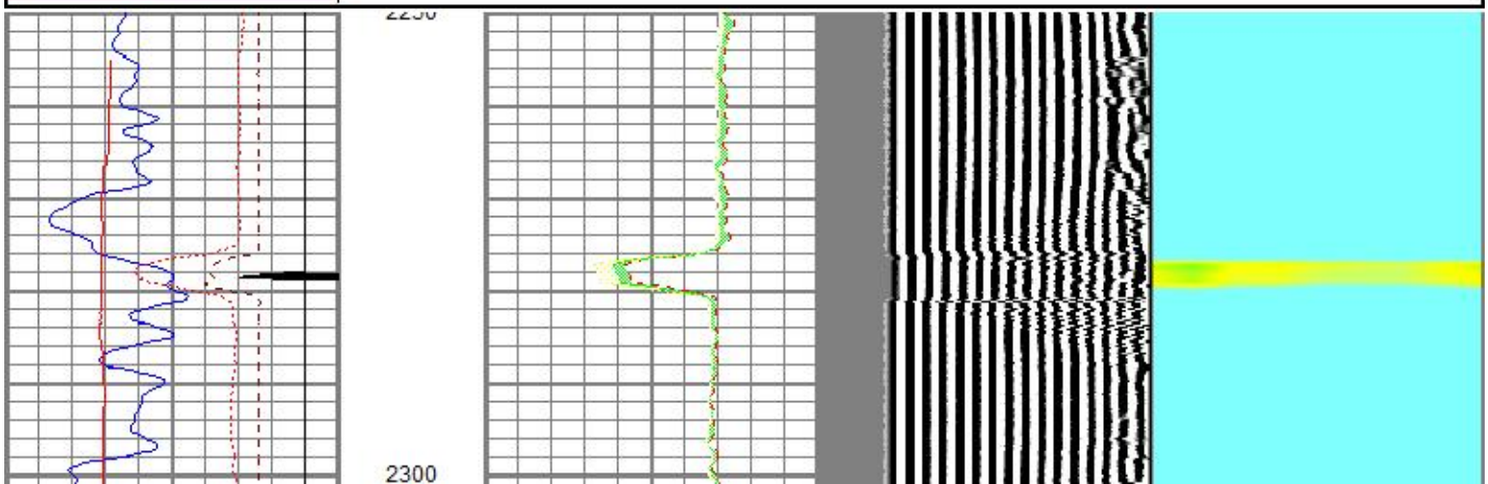


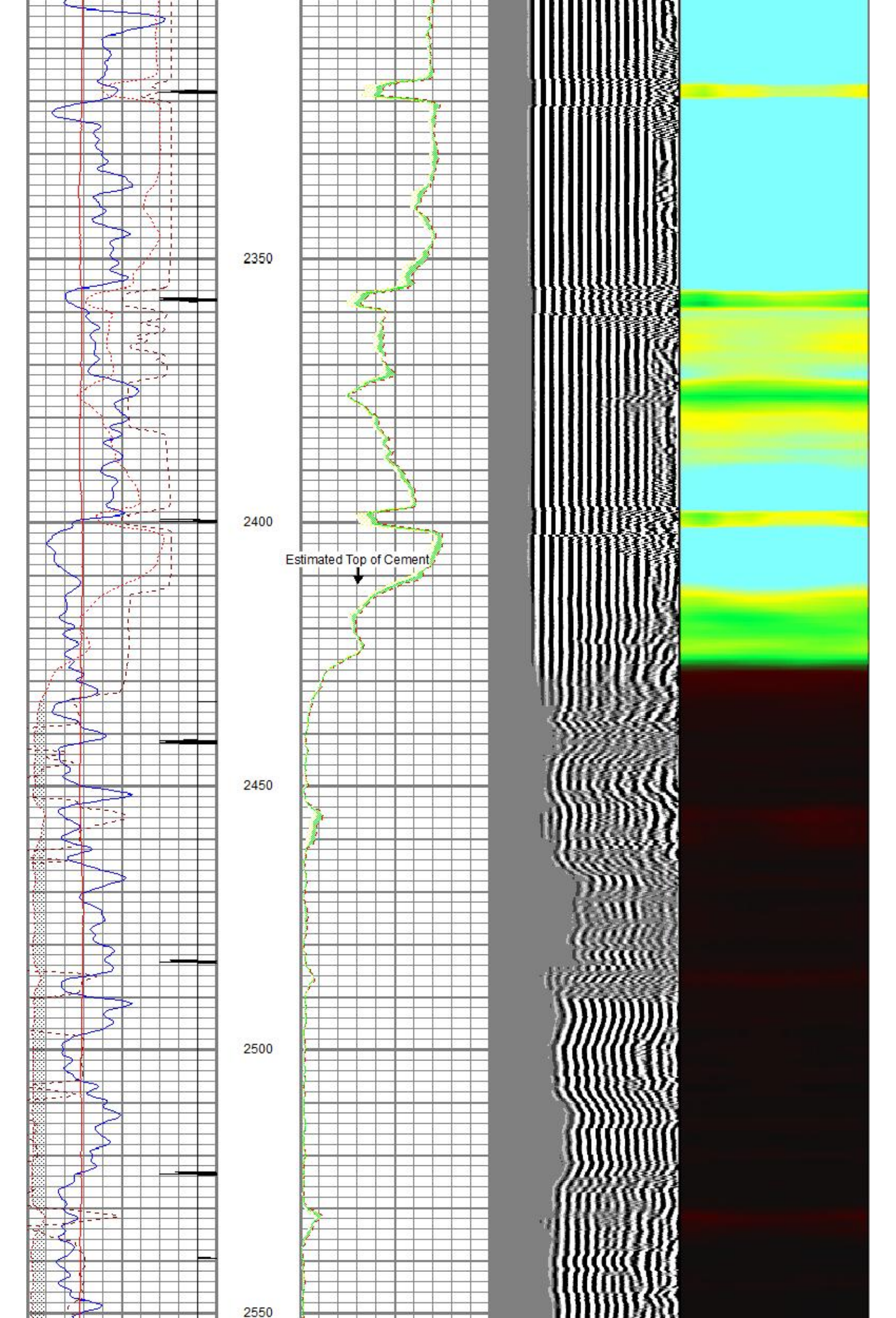
0	GR (GAPI)	150	0	AMPMAX	100	200	WVF5FT	1200	1	Sector Map	8
450	TT3FT (usec)	250	0	AMPAVG	100						
9	CCL	-1	0	AMPMIN	100						
0	AMP3FT (mV)	100									
0	DEVI (deg)	10									

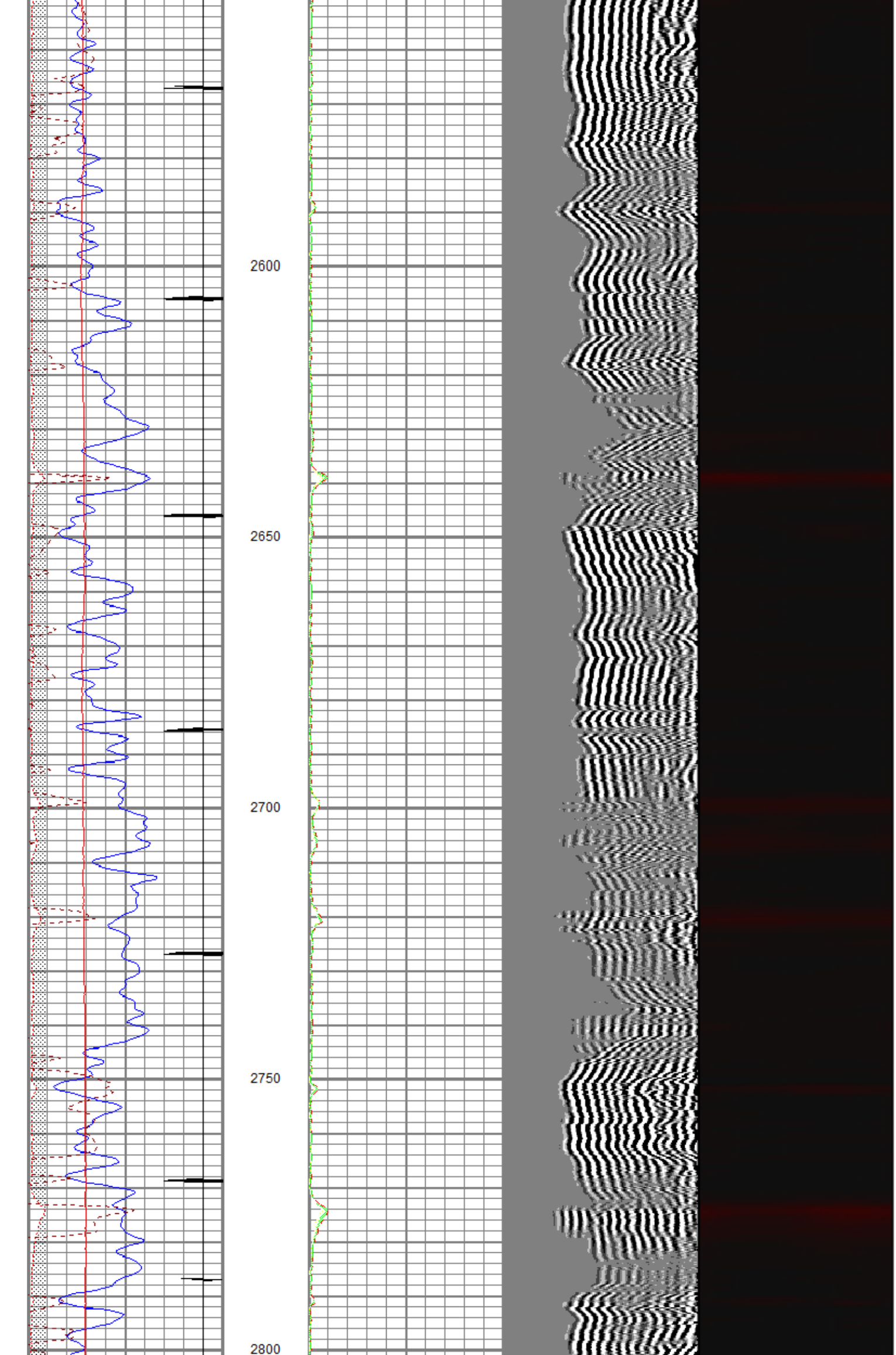
Main Pass

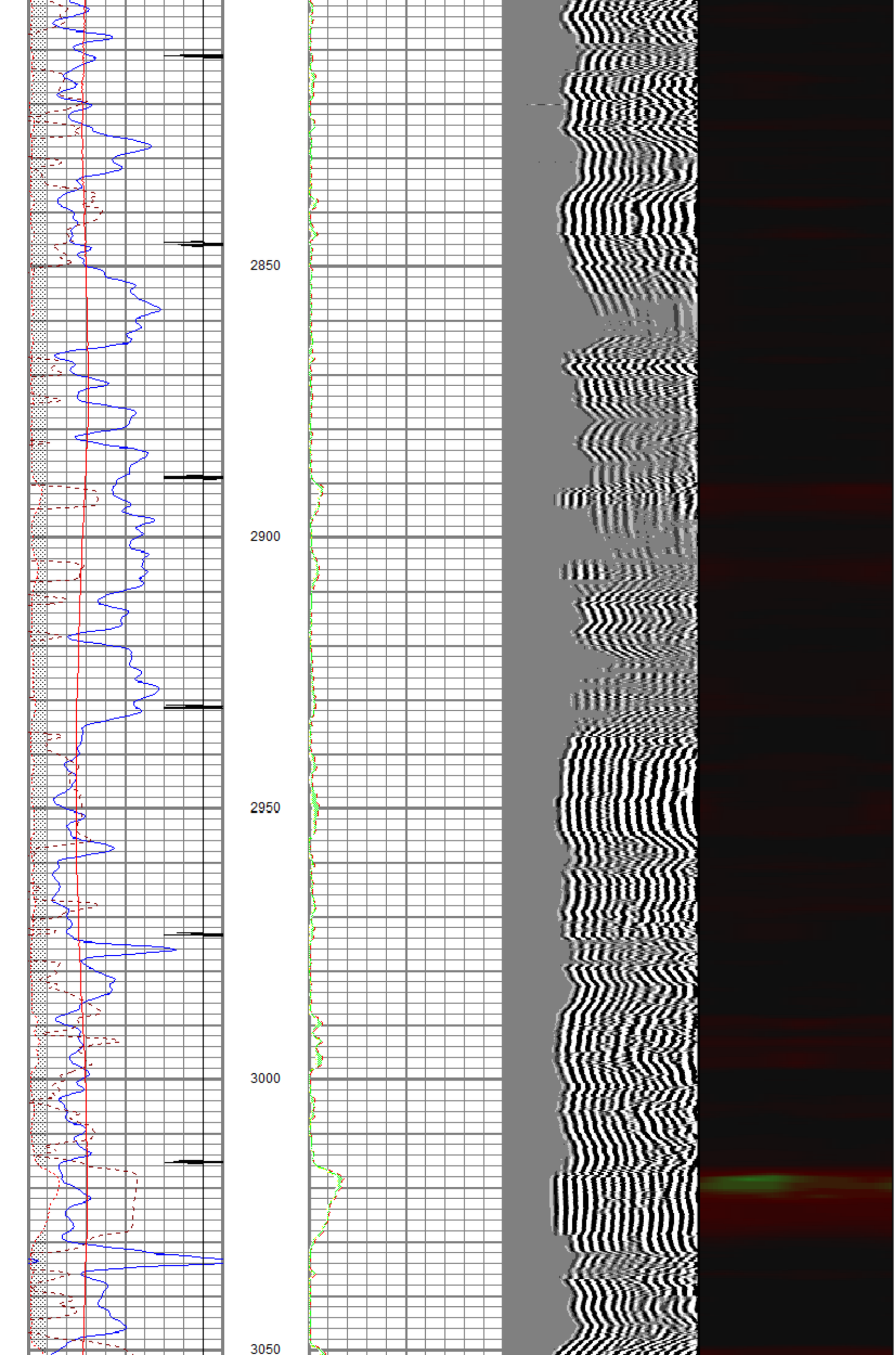
Database File	aoeller#1-16cbl.db
Dataset Pathname	pass2
Presentation Format	sectorco
Dataset Creation	Wed Oct 19 13:20:19 2016
Charted by	Depth in Feet scaled 1:240

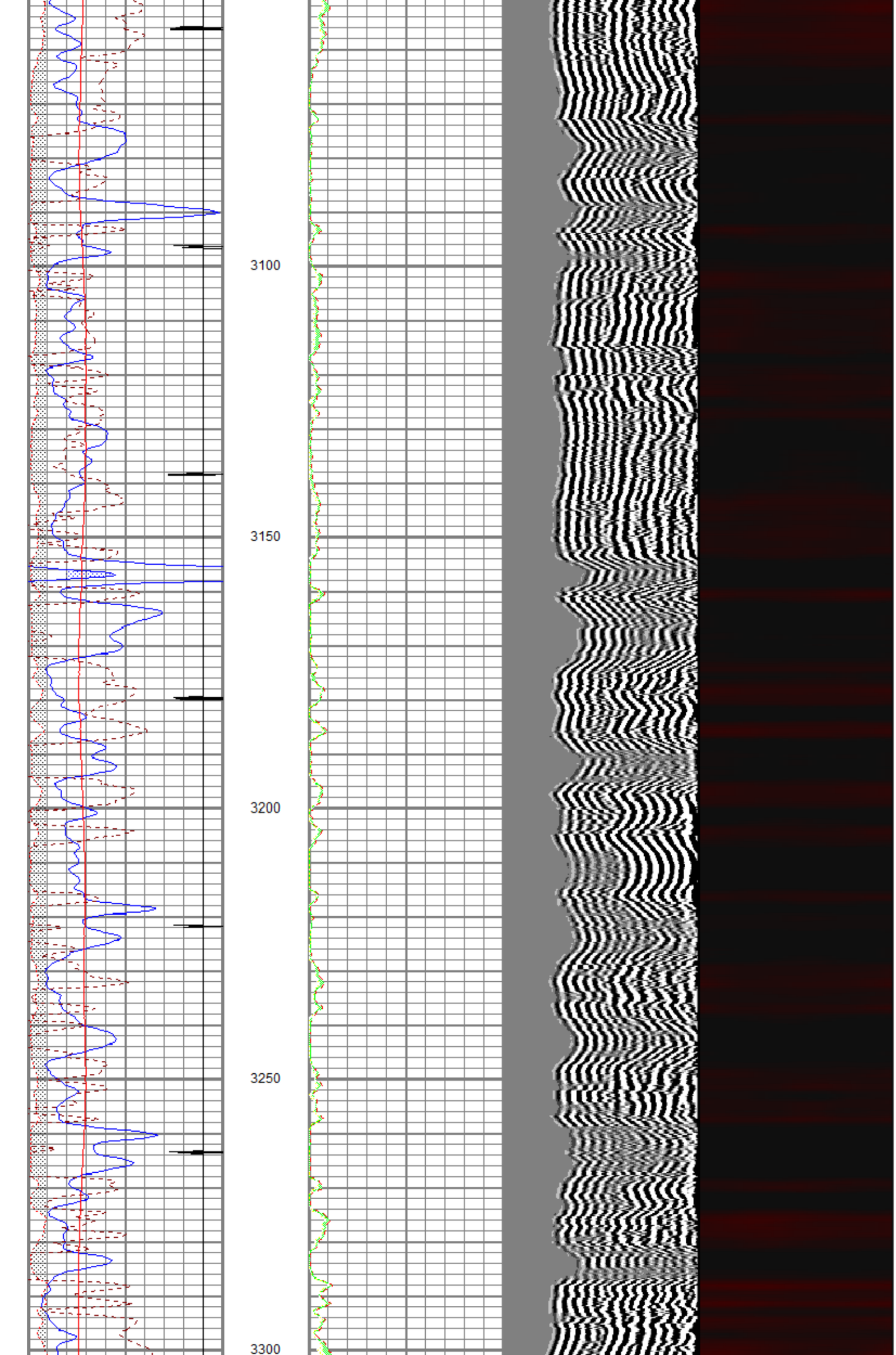
0	GR (GAPI)	150	0	AMPMAX	100	200	WVF5FT	1200	1	Sector Map	8
450	TT3FT (usec)	250	0	AMPAVG	100						
9	CCL	-1	0	AMPMIN	100						
0	AMP3FT (mV)	100									
0	DEVI (deg)	10									

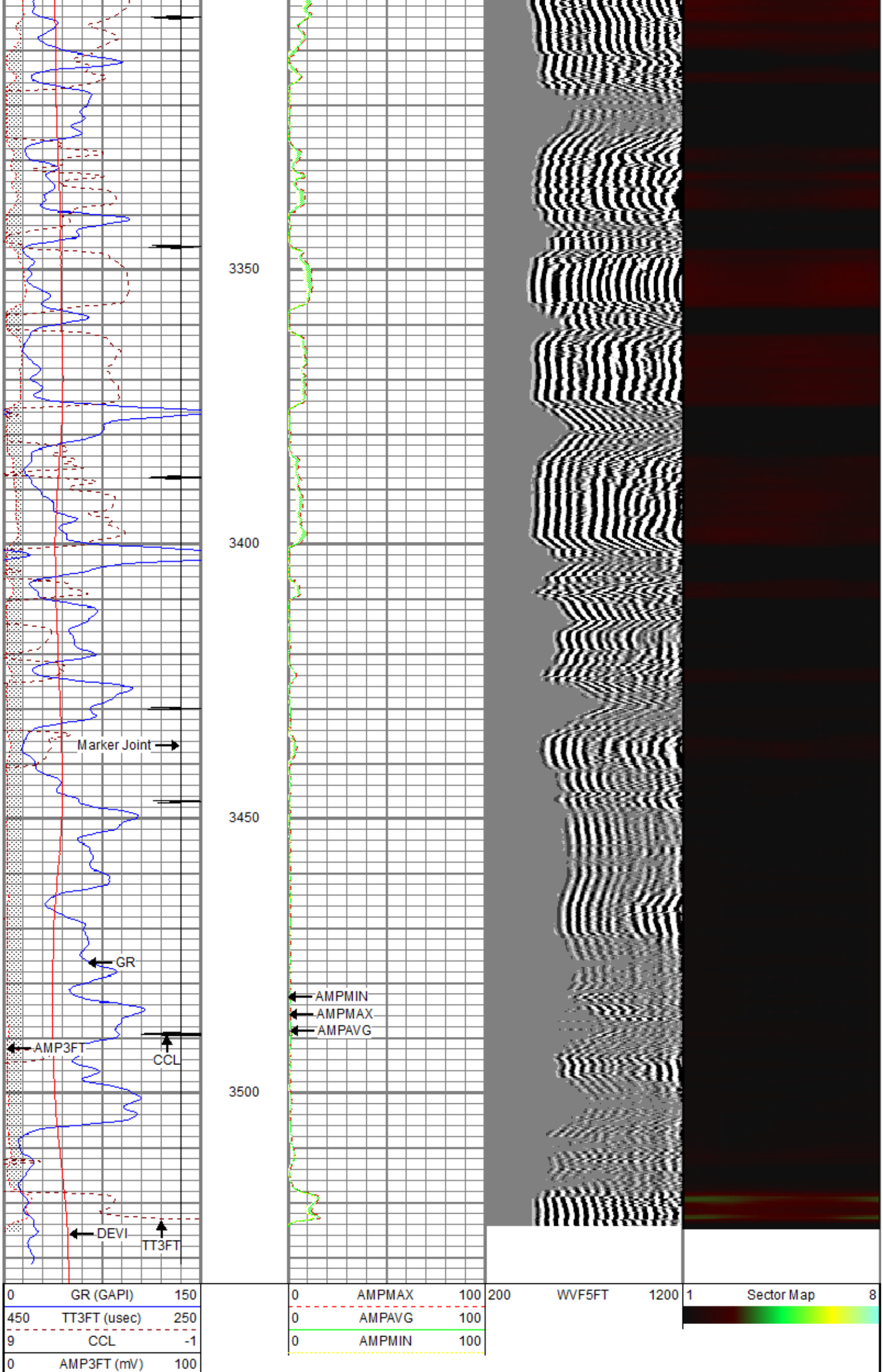



2350
2400
Estimated Top of Cement
2450
2500
2550


2600
2650
2700
2750
2800


2850
2900
2950
3000
3050


3100
3150
3200
3250
3300


3350
3400
3450
3500
Marker Joint
GR
AMP3FT
CCL
DEVI
TT3FT
AMPMIN
AMPMAX
AMPAVG
0 GR (GAPI) 150
450 TT3FT (usec) 250
9 CCL -1
0 AMP3FT (mV) 100
0 AMPMAX 100
0 AMPAVG 100
0 AMPMIN 100
200 WVF5FT 1200
1 Sector Map 8

0	DEVI (deg)	10

Repeat Pass

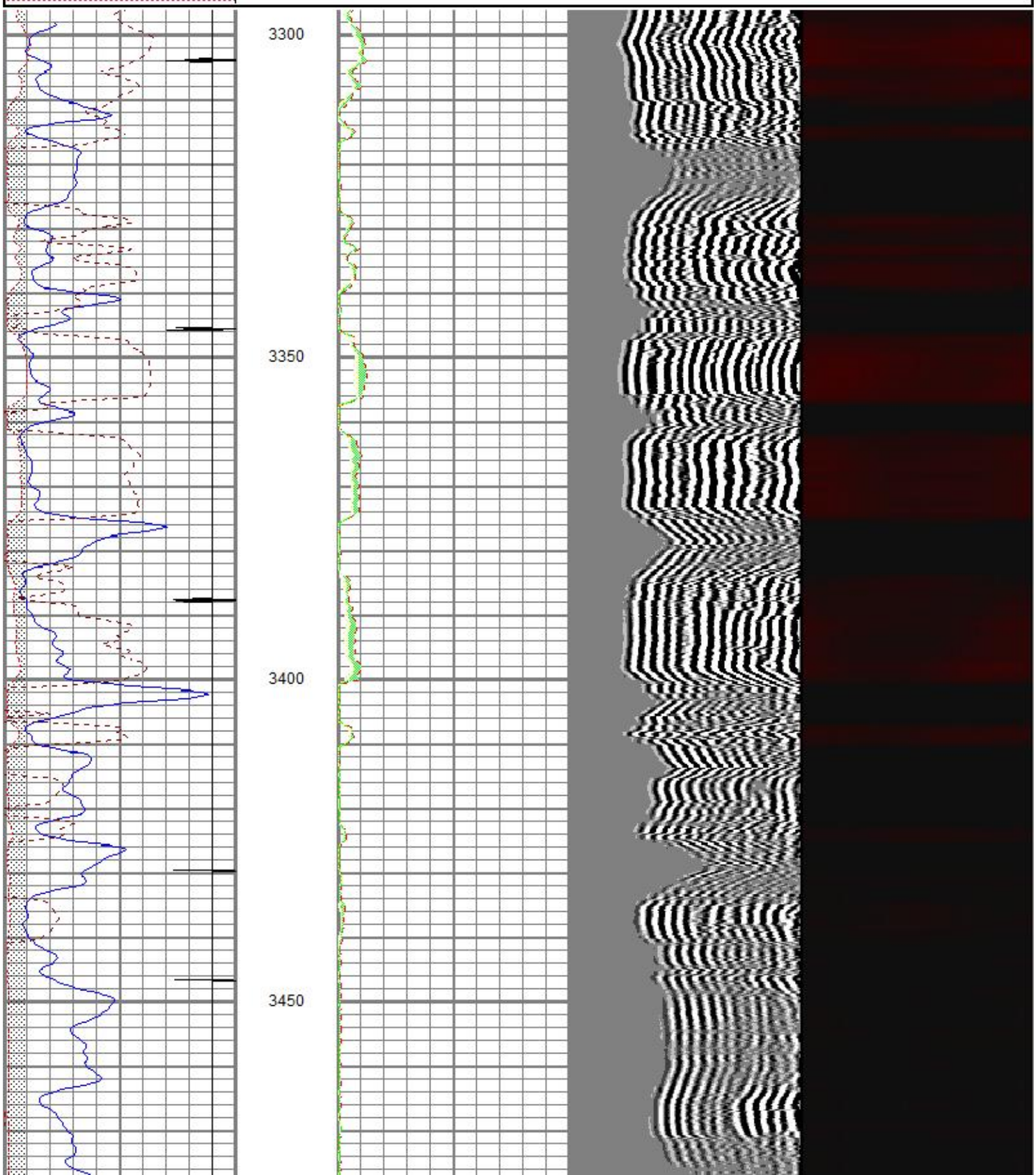
Database File	aoeller#1-16cbl.db
Dataset Pathname	pass1
Presentation Format	sectorco
Dataset Creation	Wed Oct 19 13:11:36 2016
Charted by	Depth in Feet scaled 1:240

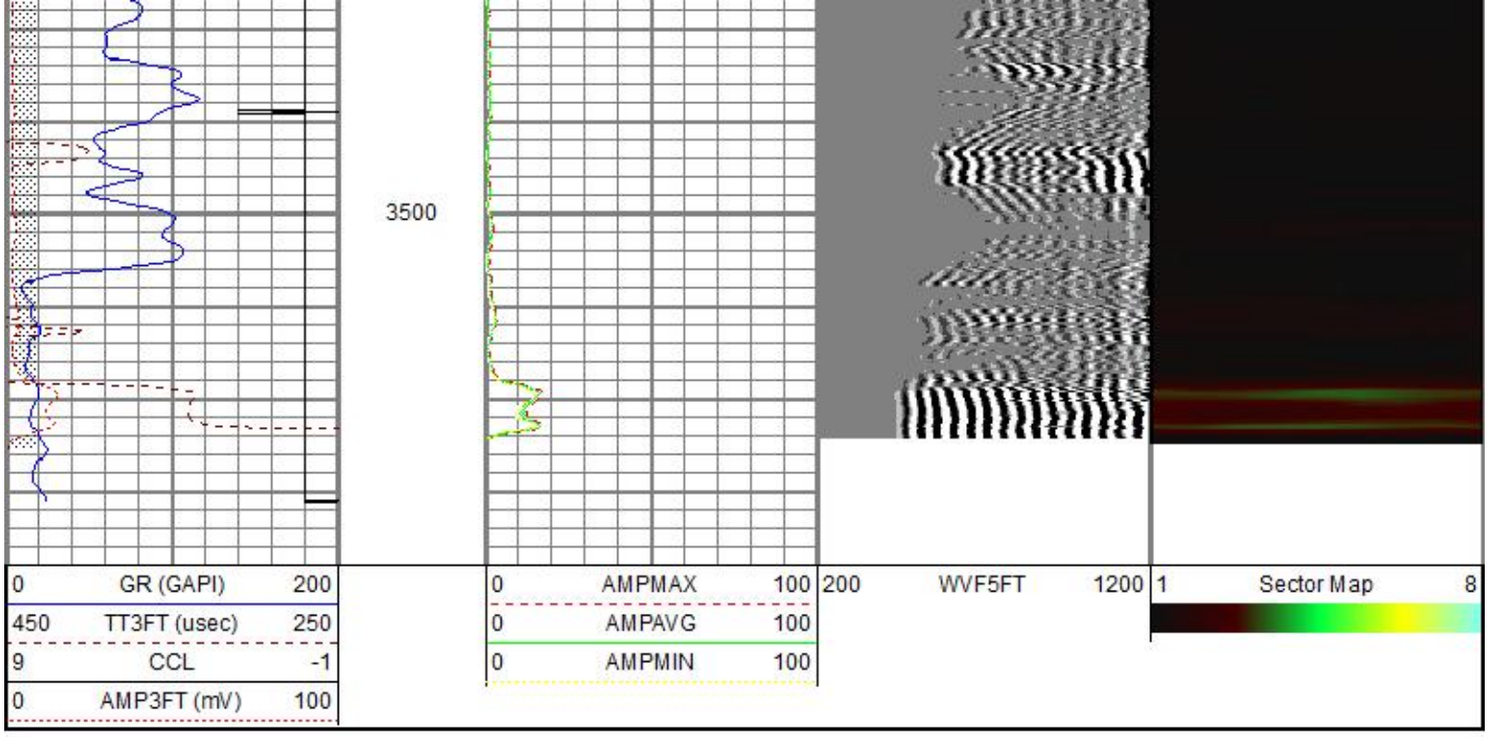
0	GR (GAPI)	200
450	TT3FT (usec)	250
9	CCL	-1
0	AMP3FT (mV)	100

0	AMPMAX	100
0	AMPAVG	100
0	AMPMIN	100

200	WVF5FT	1200

1	Sector Map	8





Calibration Report

Database File aoeller#1-16cbl.db
Dataset Pathname pass3
Dataset Creation Wed Oct 19 13:54:03 2016

Gamma Ray Calibration Report

Serial Number:	080616	
Tool Model:	275D_INC	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Inclinometer Calibration Report

Performed: Mon Feb 22 09:45:37 2016

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3560.40	3602.00	-1.00	1.00	gee
Y Accelerometer	-3645.40	3546.20	-1.00	1.00	gee
Z Accelerometer	6.60	3581.20	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	080321	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2049.868	ft

Master Calibration, performed Wed Oct 19 14:03:48 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	1.148	1.000	71.921	62.123	0.584
CAL	0.007	1.351				
5'	0.007	1.050	1.000	71.921	67.979	0.548
SUM						
S1	0.007	1.192	0.000	72.000	60.736	-0.415

S2	0.007	1.212	0.000	72.000	59.719	-0.394
S3	0.007	1.174	0.000	72.000	61.712	-0.428
S4	0.007	1.135	0.000	72.000	63.824	-0.443
S5	0.007	1.103	0.000	72.000	65.665	-0.440
S6	0.007	1.085	0.000	72.000	66.803	-0.456
S7	0.007	1.109	0.000	72.000	65.322	-0.449
S8	0.007	1.145	0.000	72.000	63.258	-0.430

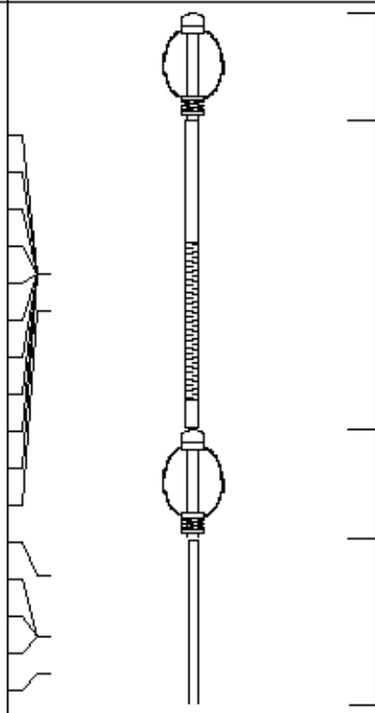
Internal Reference Calibration, performed Thu Dec 04 16:30:55 2008:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	1.351	1.000	0.000

Air Zero Calibration, performed Mon Jan 11 14:07:53 2016:

	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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
WVFS8	11.63					
WVFS7	11.63					
WVFS6	11.63					
WVFS5	11.63					
WVFS4	11.63		RBT-Probe (080321) Prototype Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
WVFS3	11.63					
WVFS2	11.63					
WVFS1	11.63					
WVFCAL	11.63					
WVF3FT	11.63		CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
WVF5FT	10.63					
CCL	3.50					
ACCZ	1.83					
ACCY	1.83		GR-275D_INC (080616) 2-3/4" GR-CCL with Inclination	4.50	2.75	
ACCX	1.83					
GR	0.83					



Dataset: aoeller#1-16cbl.db: field/well/run1/pass3
Total length: 18.71 ft
Total weight: 110.00 lb
O.D.: 2.75 in