



Weatherford

SECTOR BOND LOG

COMPANY		TAOS RESOURCES OPERATING COMPANY, LLC			
WELL		WEST MADDIX UNIT 23			
FIELD		MADDIX NORTH			
PROVINCE/COUNTY		COWLEY			
COUNTRY/STATE		KANSAS			
LOCATION		165' FSL & 1155' FEL SW SW SE SE			
SEC 3	TWP 33S	RGE 5E	Other Services		PERFORATE
Latitude					
Longitude					
API Number		15-035-24564			
Permanent Datum GL, Elevation 1285 feet				Elevations: KB 1295.00 DF 1293.00 GL 1285.00	
Log Measured From KB					
Drilling Measured From KB					
Date	26-APR-2014	PERFORATION RECORD			
Run Number	ONE	Shot	Number	Depth From	Depth To
Service Order	2614-85635285	Density	of Shots	feet	feet
Type Log	CEMENT BOND				
Depth Driller	3700.00	feet			
Depth Logger	3646.00	feet			
Top Log Interval	1150.00	feet			
Bottom Log Interval	3641.00	feet			
Hole Fluid Type	WATER				
Hole Fluid Level	0.00	feet			
Restriction ID		Gun Type			
Max Recorded Temp	115.00	deg F	Gun Size		
Well Head Pressure	0.00	psia	CASING / TUBING RECORD		
Well Head Equipment	OPEN	Size	Weight	Depth From	Depth To
Time Well Ready	0800	inches	pounds/ft	feet	feet
Time Logger Bottom	0830	8.625	24.00	0.00	273.00
ETOC	1415	5.500	15.50	0.00	3700.00
Unit	14194				
Equipment Name	WSS				
Base	OKC				
Recorded By	FRANK MAYERS				
Witnessed By	MR. RAY DOROTHY				

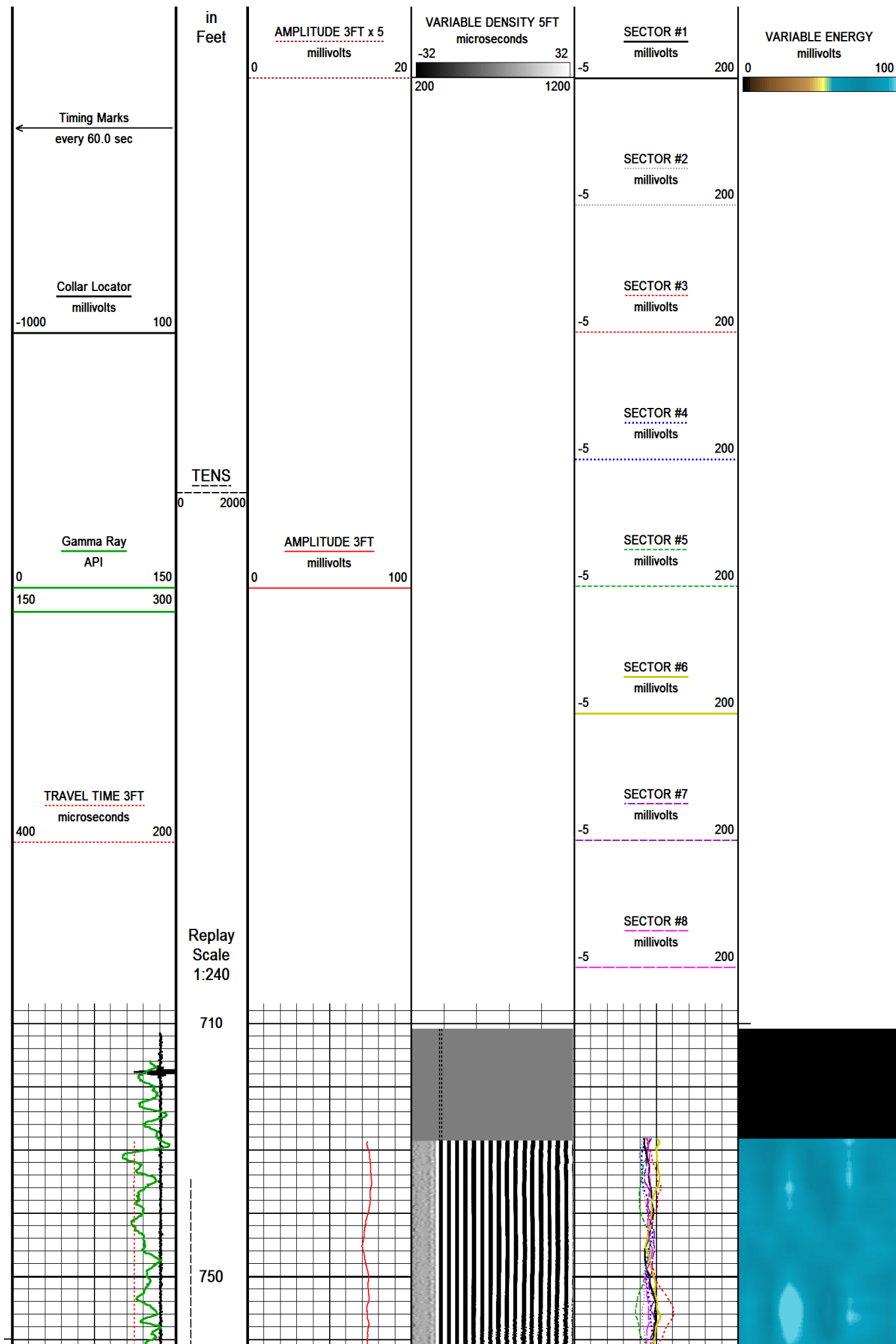
REMARKS

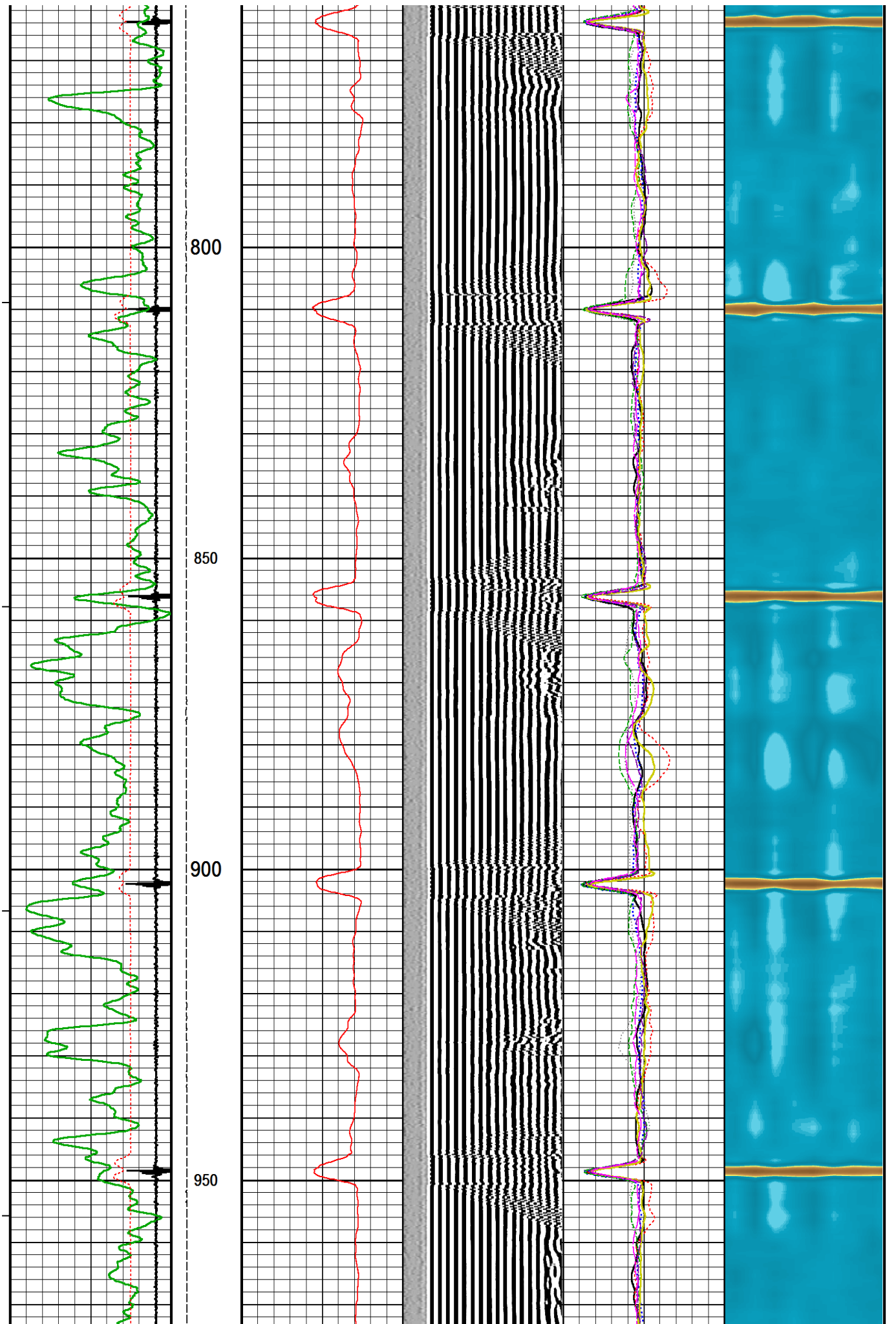
C:\8000\2614-85635285\SBL6.dta

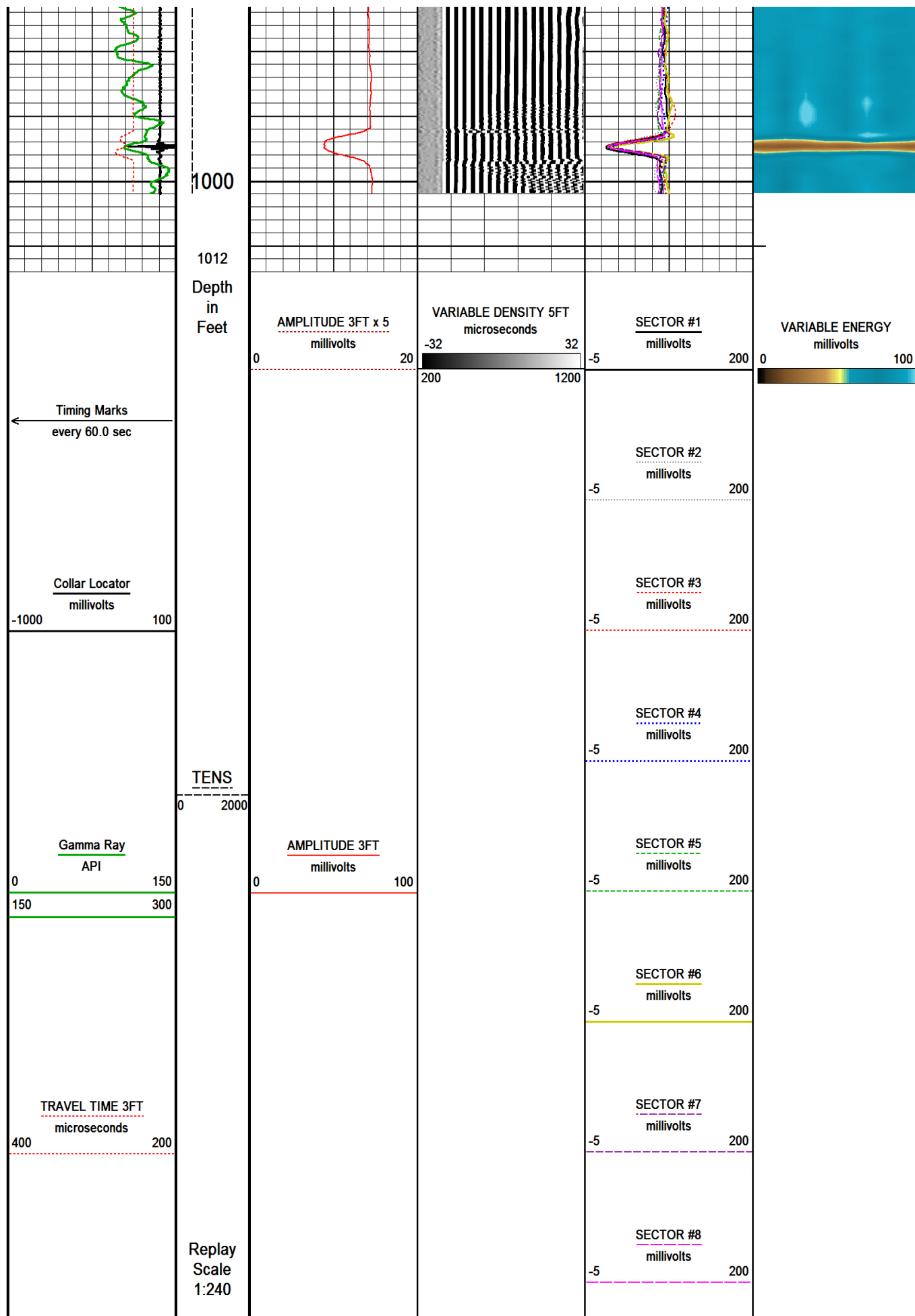
CORRELATED TO NEUTRON/DENSITY LOG DATED 19 APR 2014
LOGGED WITH 0 PSI AT SURFACE

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

↓		FREEPIPE		↓	
Depth Based Data - Maximum Sampling Increment 2.5cm				Plotted on 26-APR-2014 12:25	
Filename: C:\8000\2614-85635285\SBL7.dta				Recorded on 26-APR-2014 09:52	
System Versions: Logged with 14.01.3220		Plotted with 14.01.3220			
	Depth				







Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\8000\2614-85635285\SBL7.dta

System Versions: Logged with 14.01.3220 Plotted with 14.01.3220

Plotted on 26-APR-2014 12:25

Recorded on 26-APR-2014 09:52

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FREEPIPE

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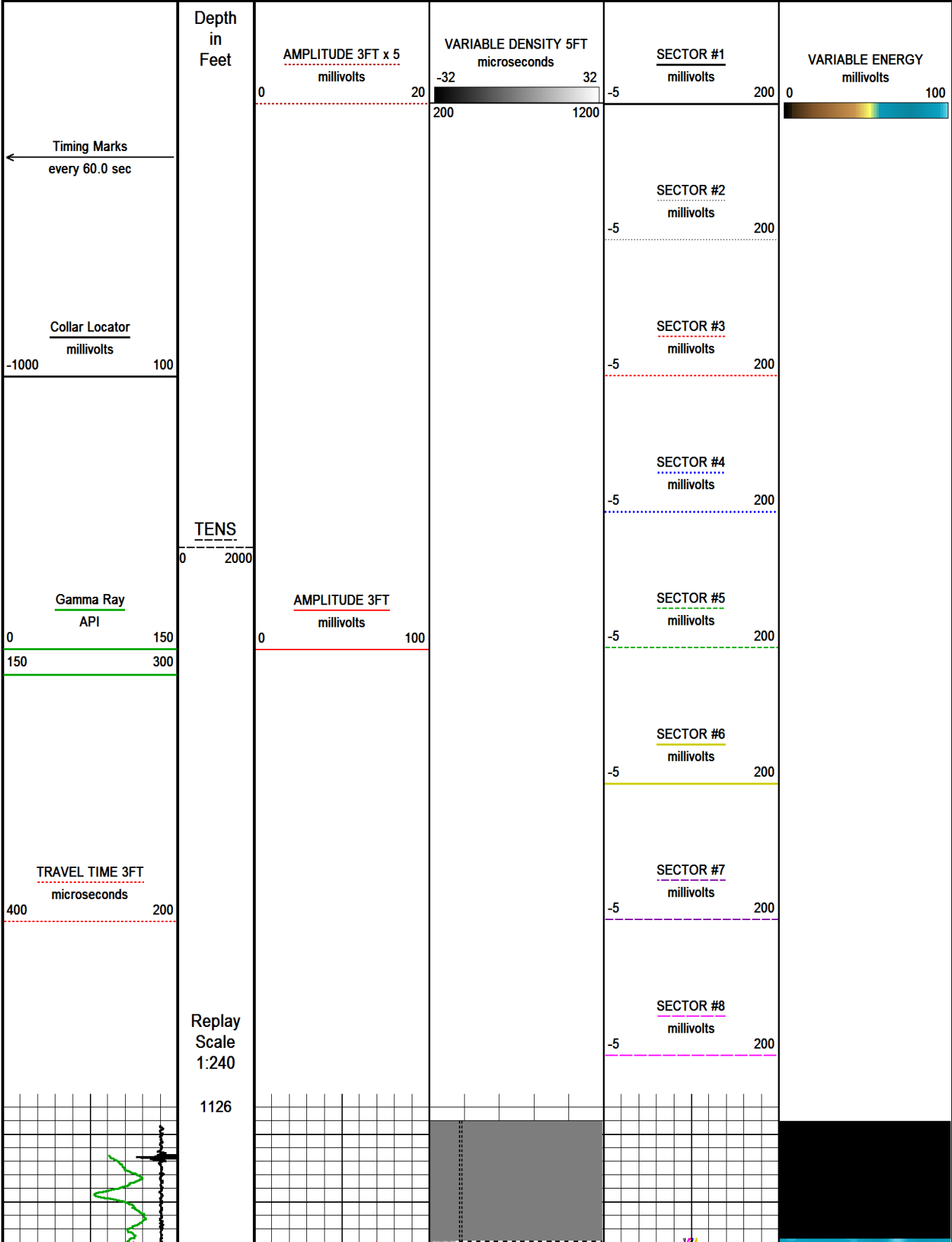
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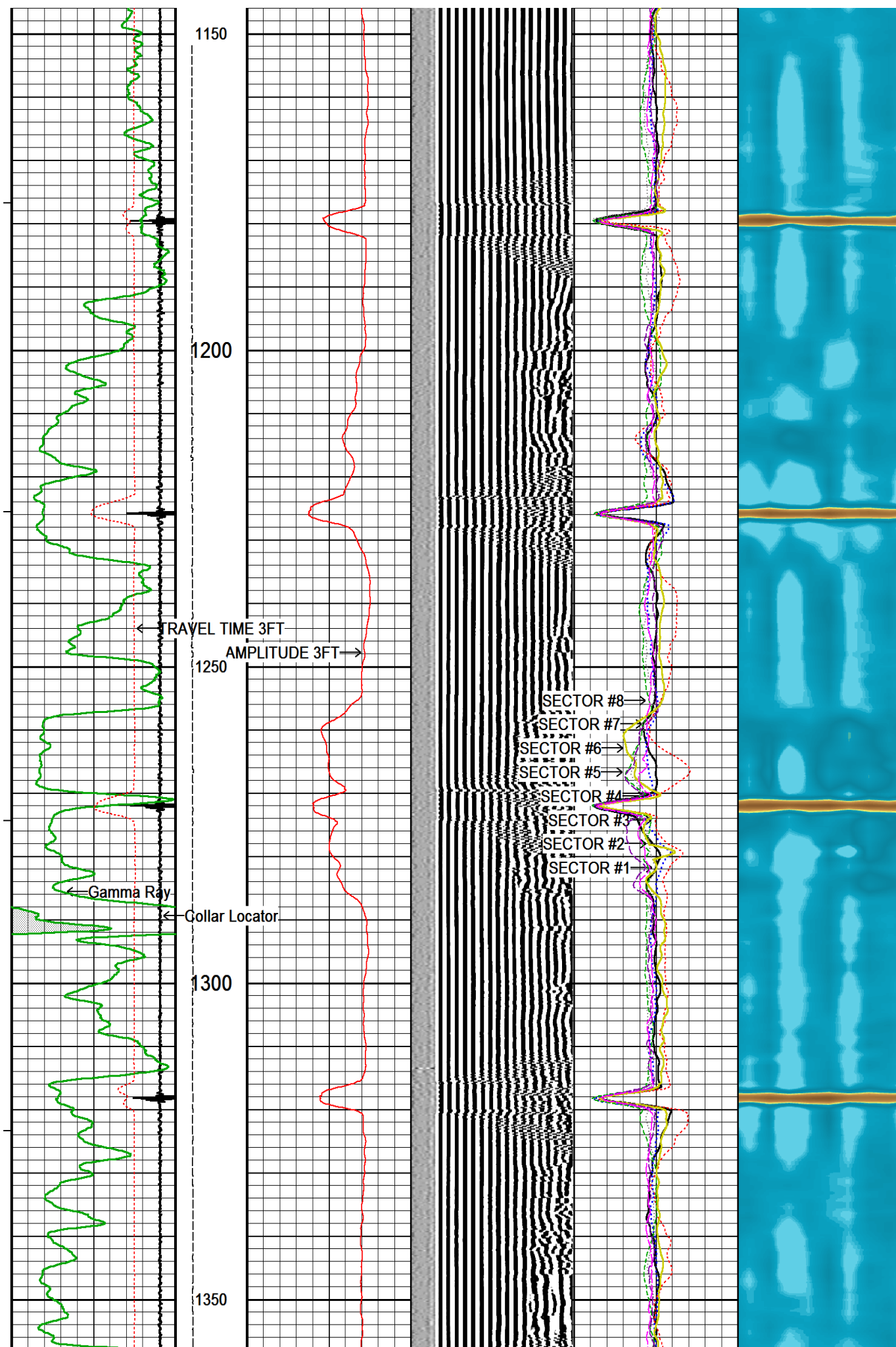
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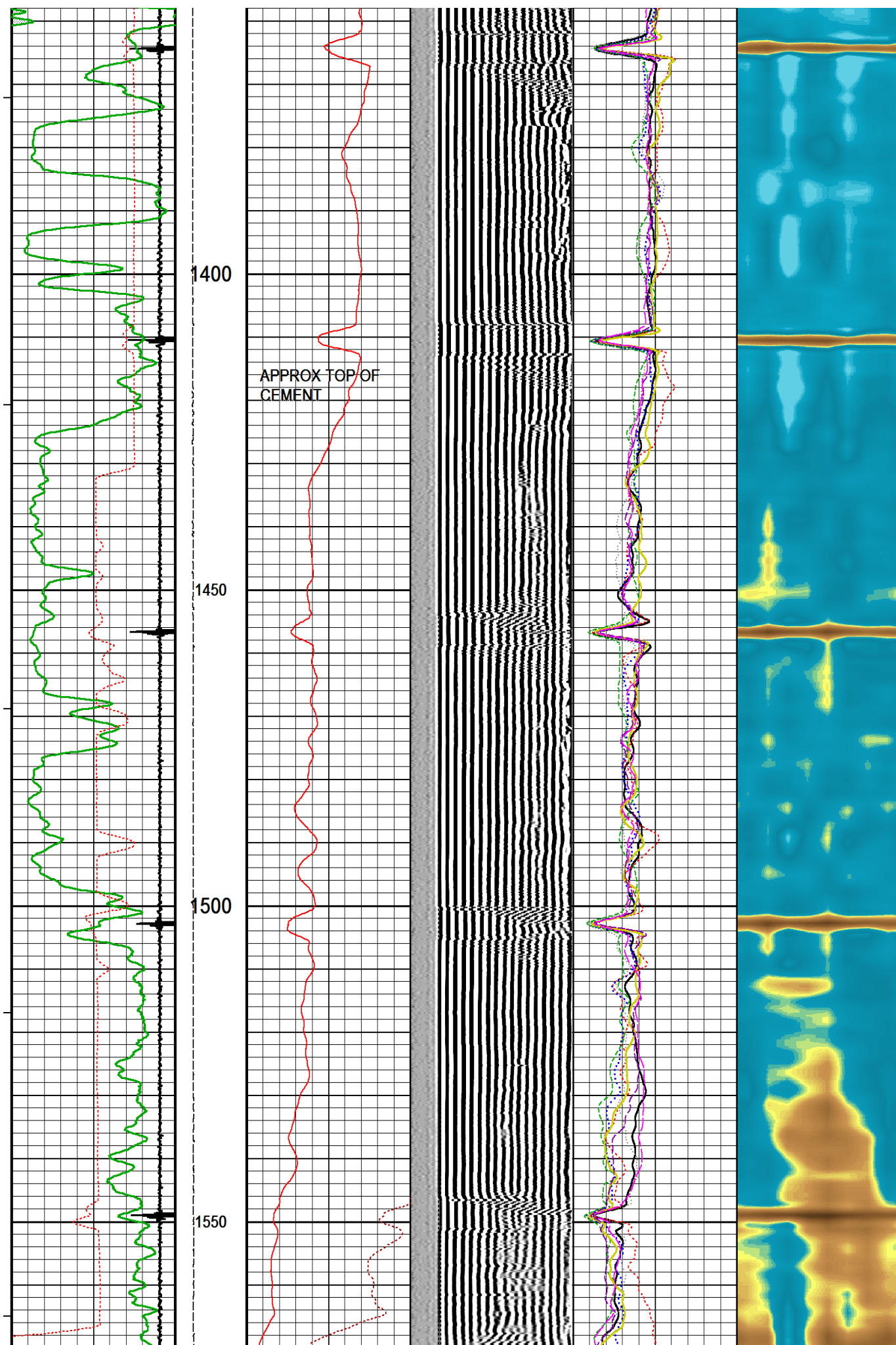
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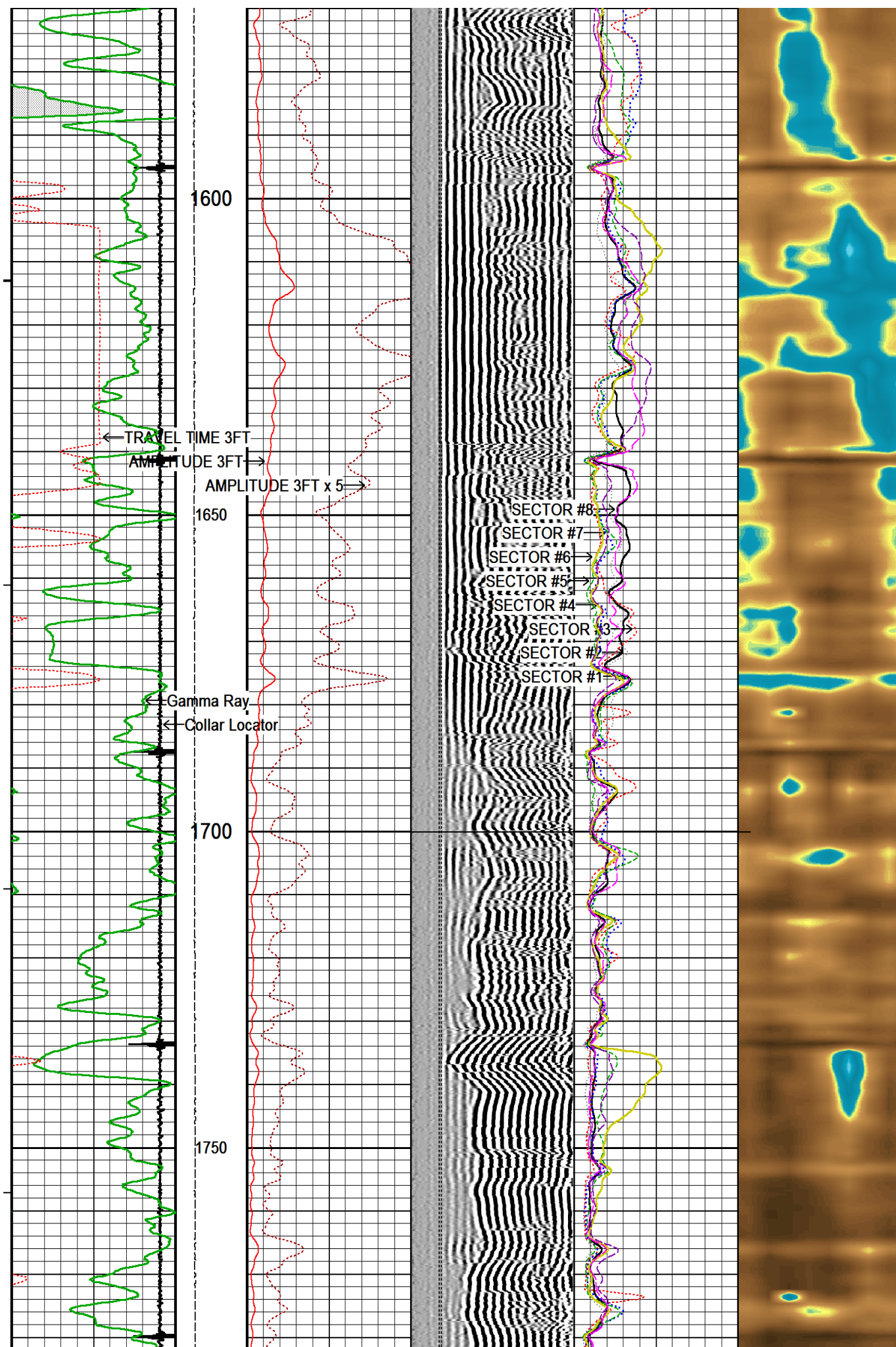
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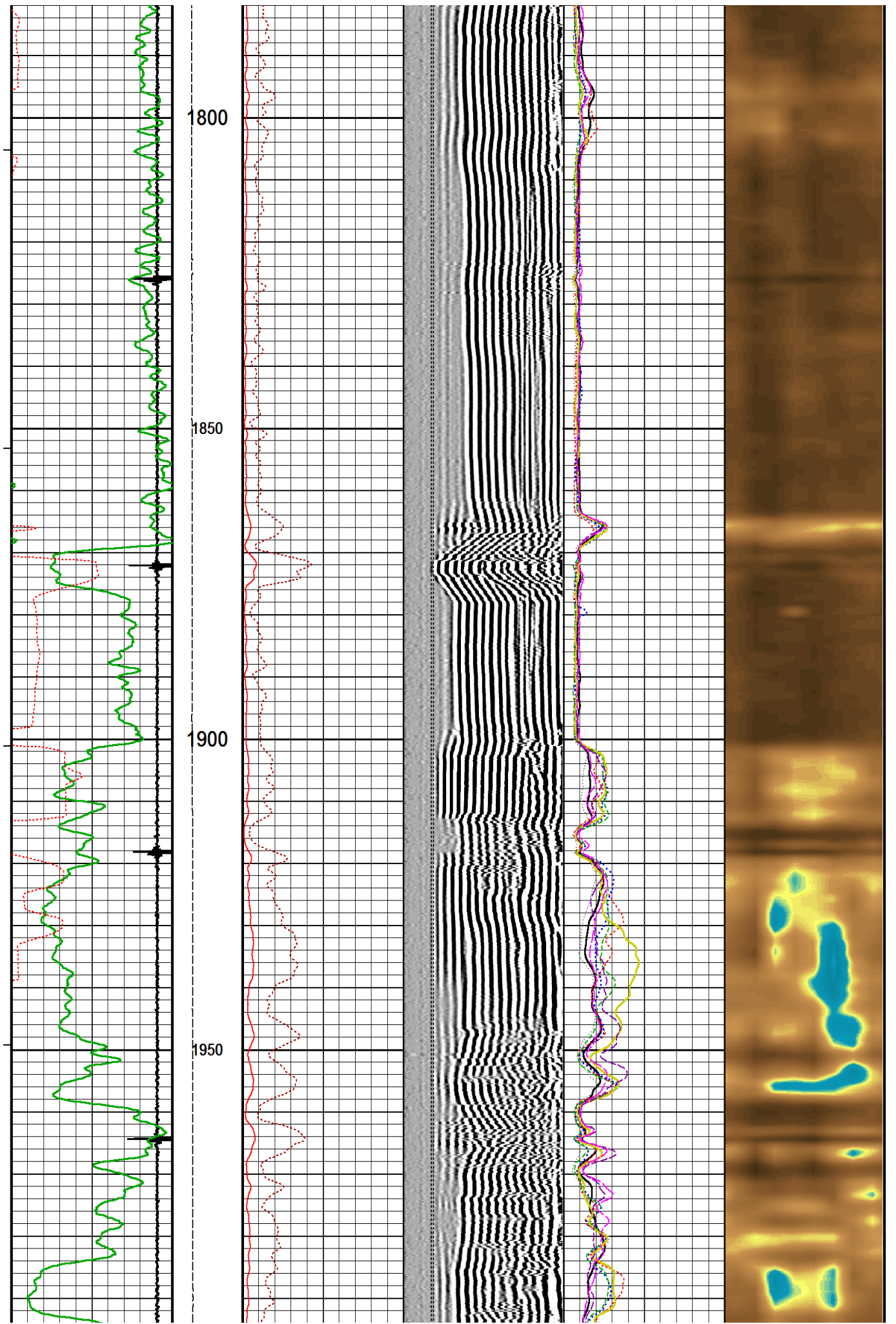
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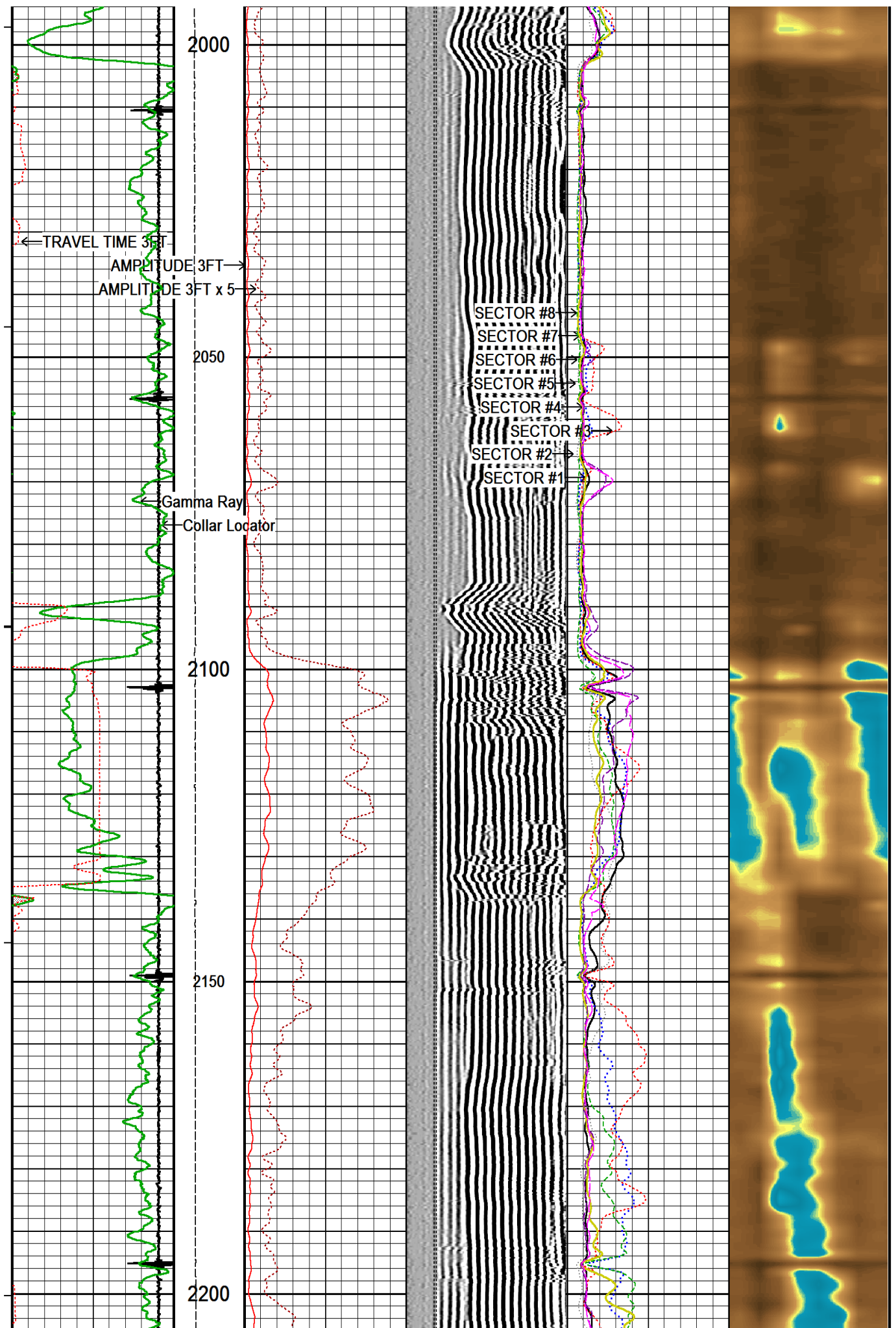


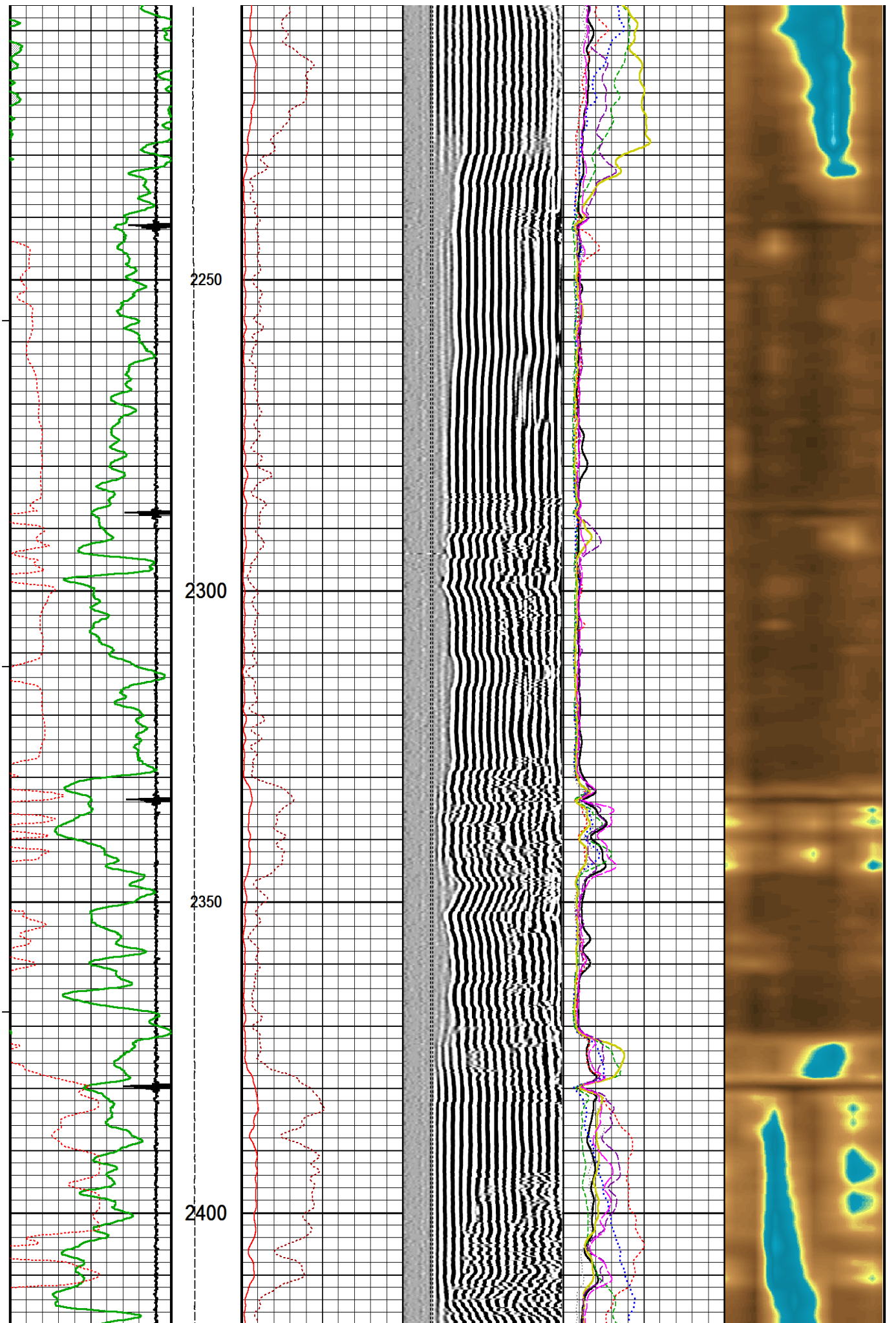


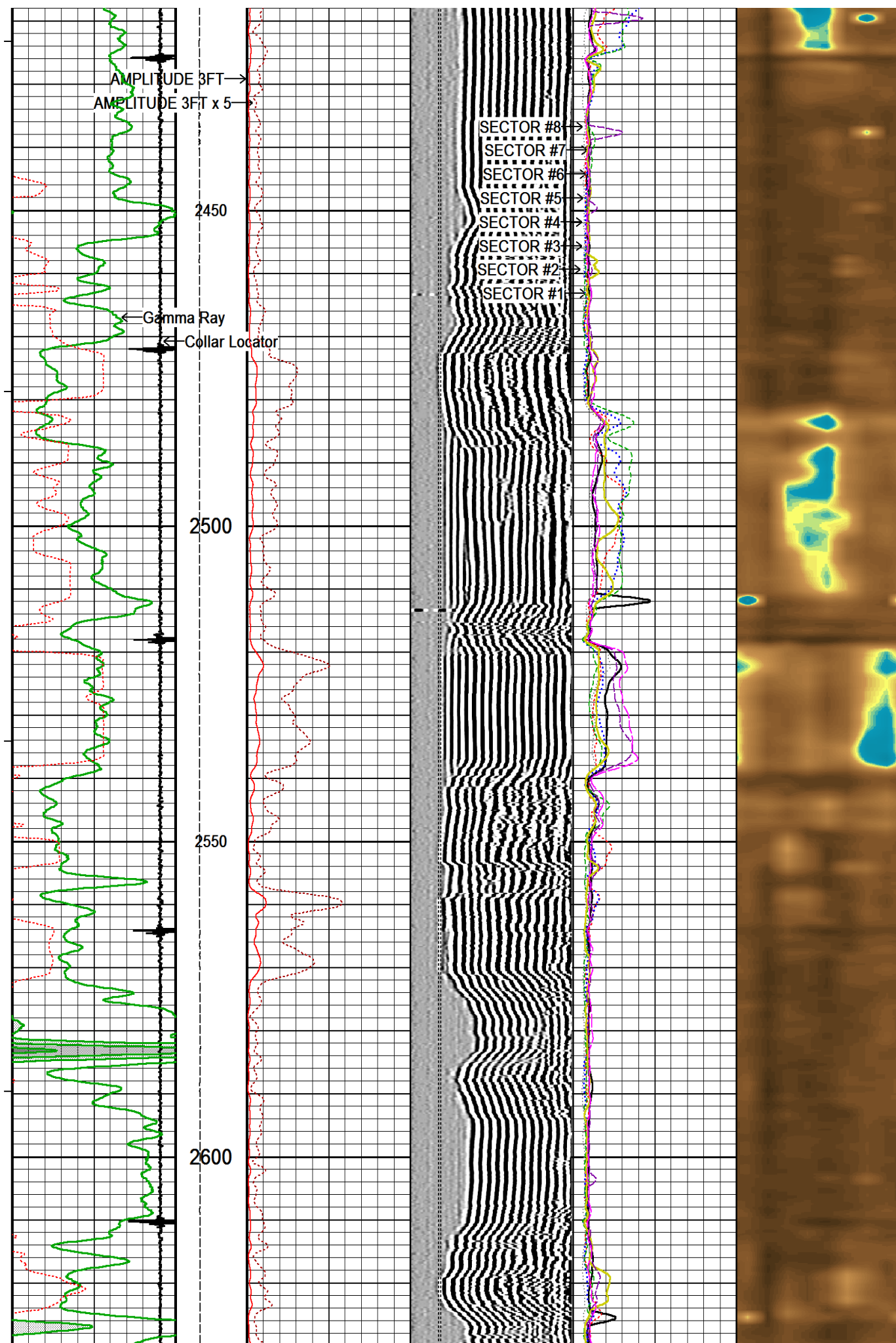


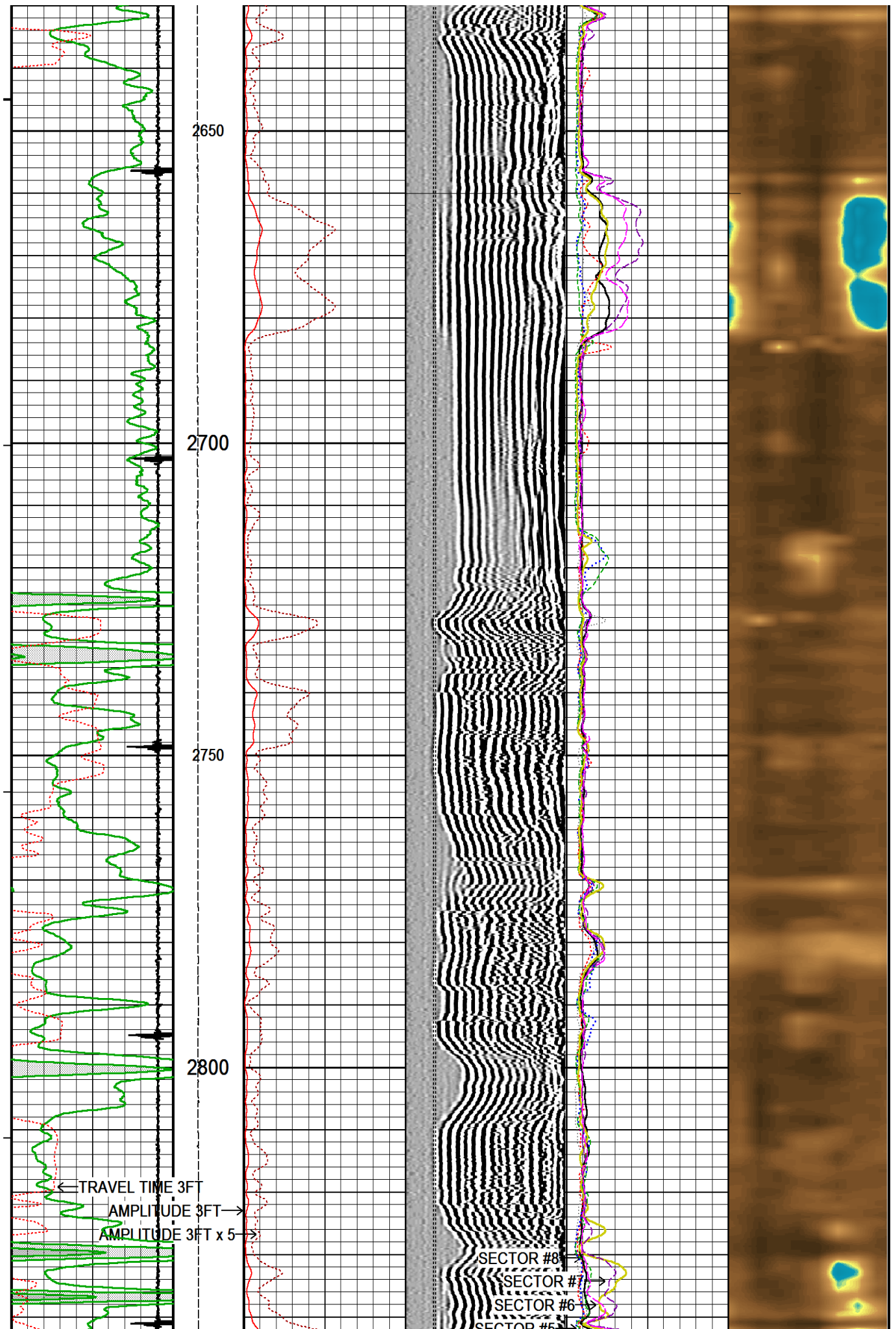


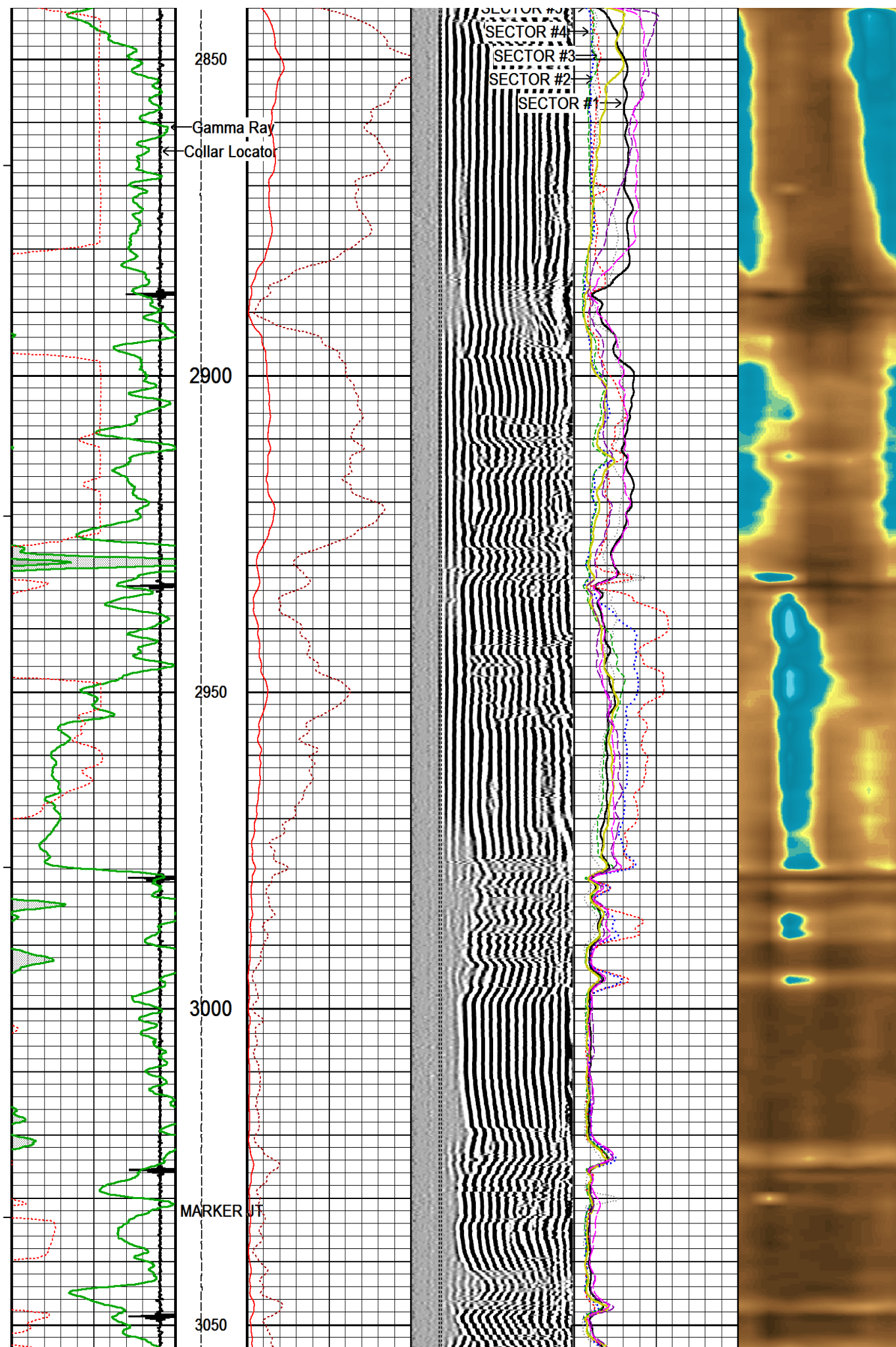


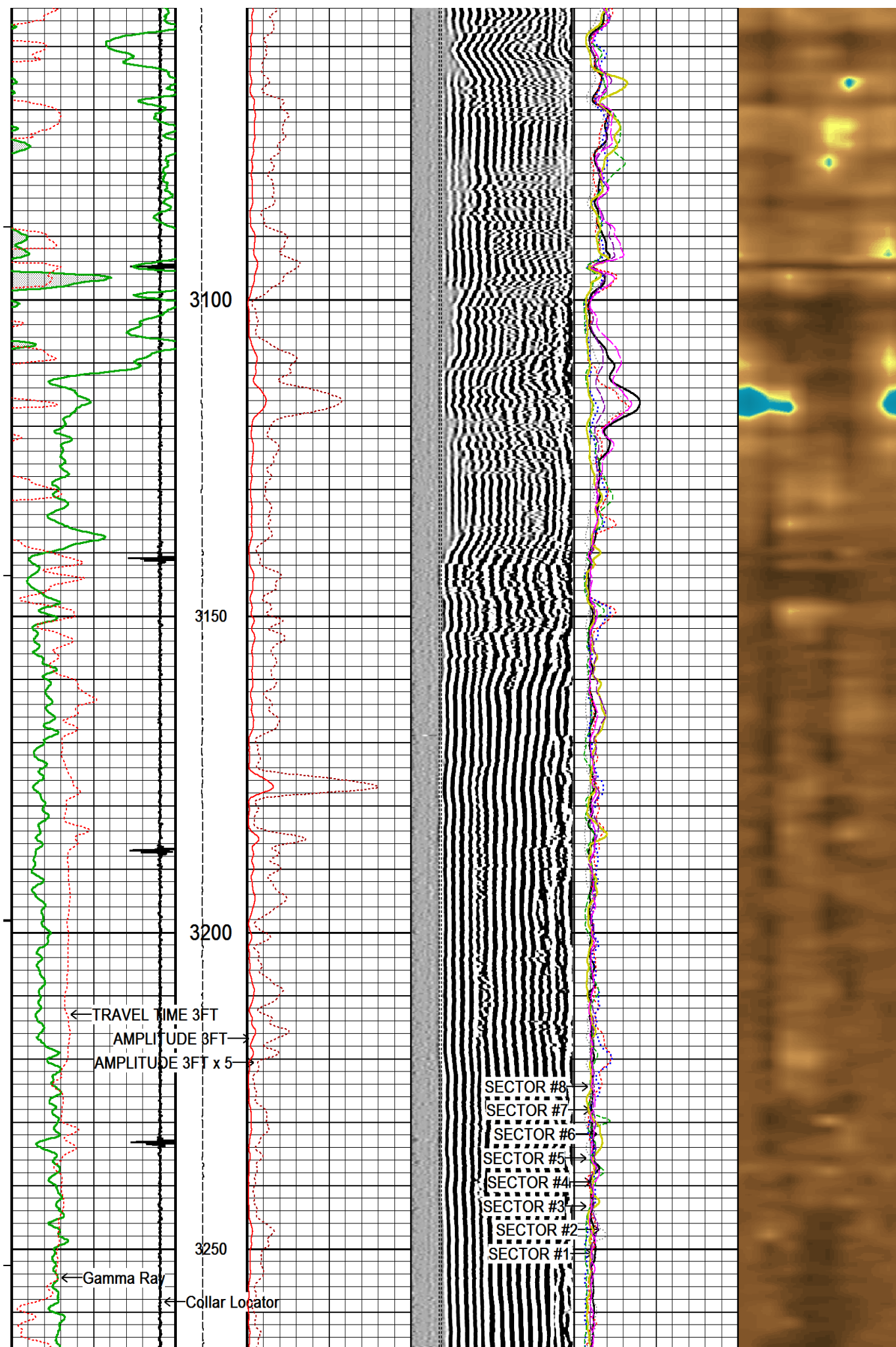


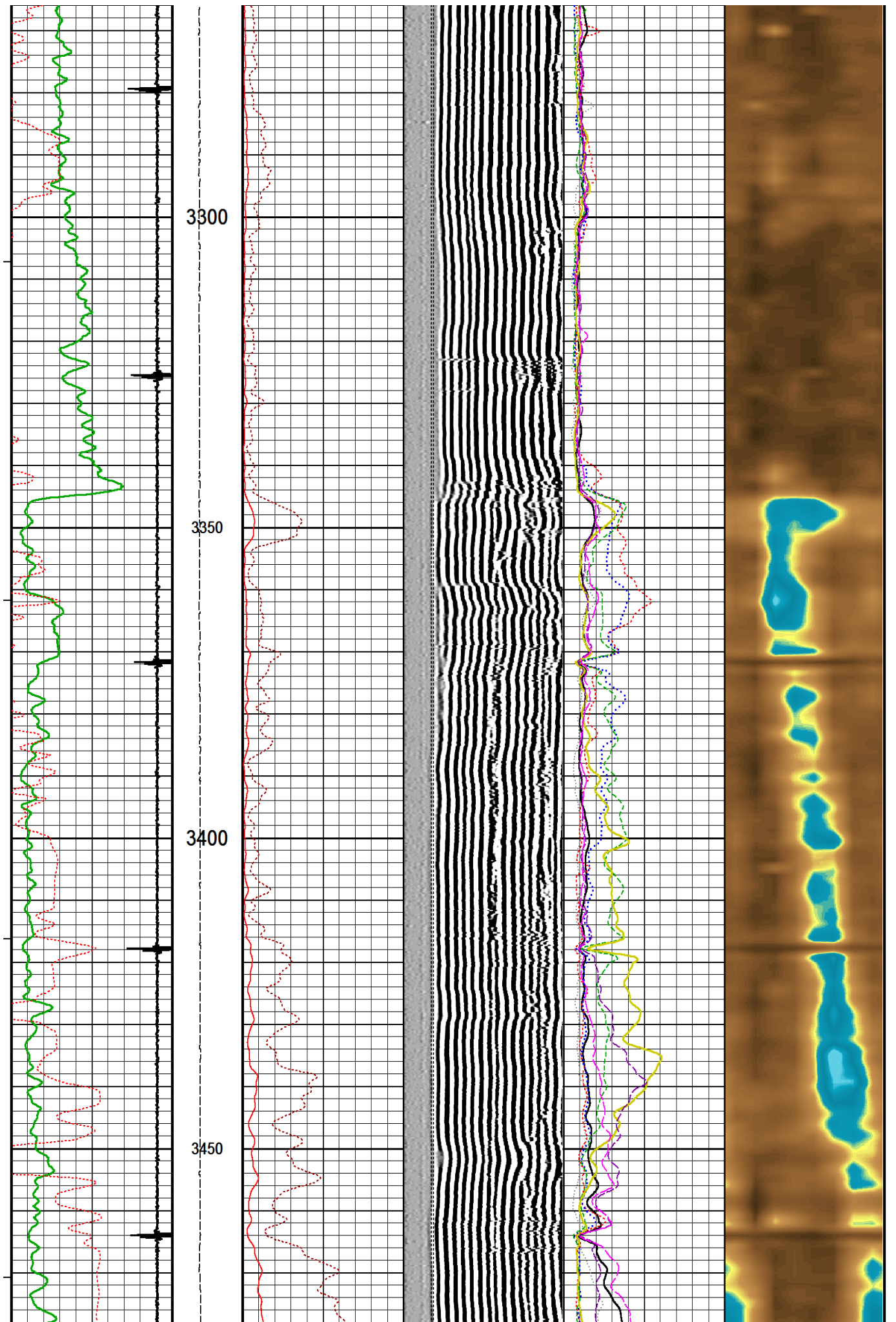


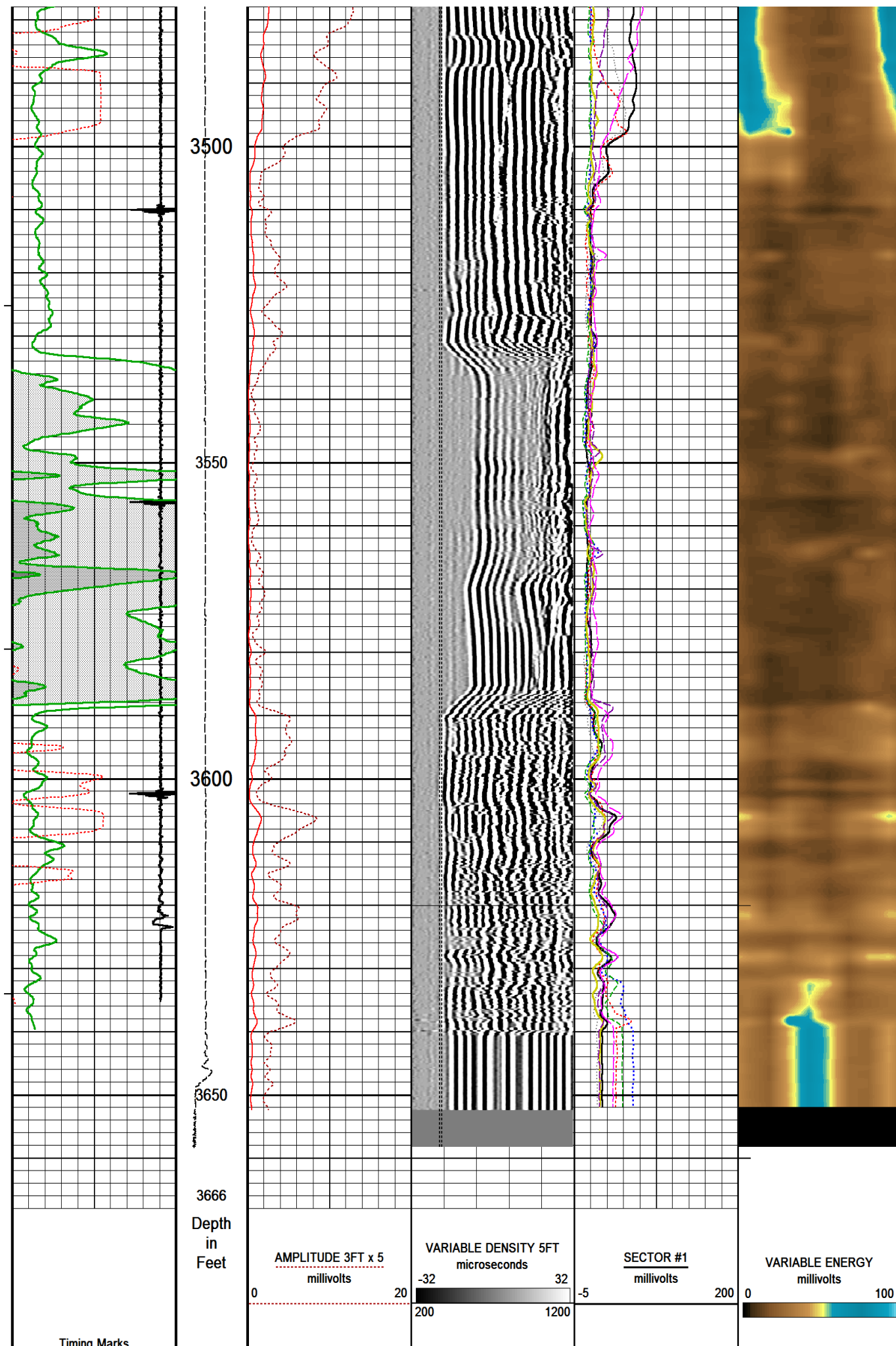


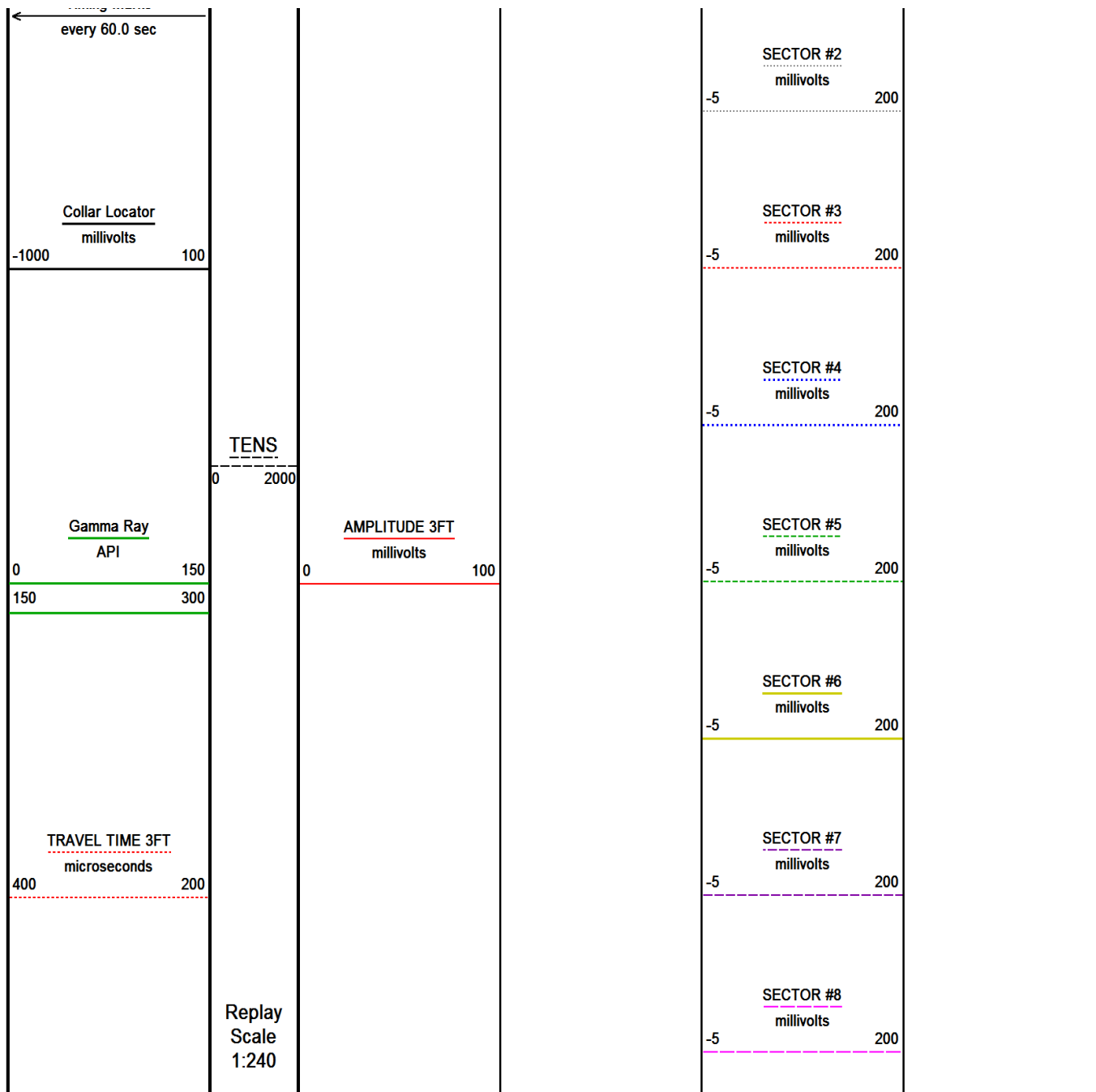












Depth Based Data - Maximum Sampling Increment 2.5cm

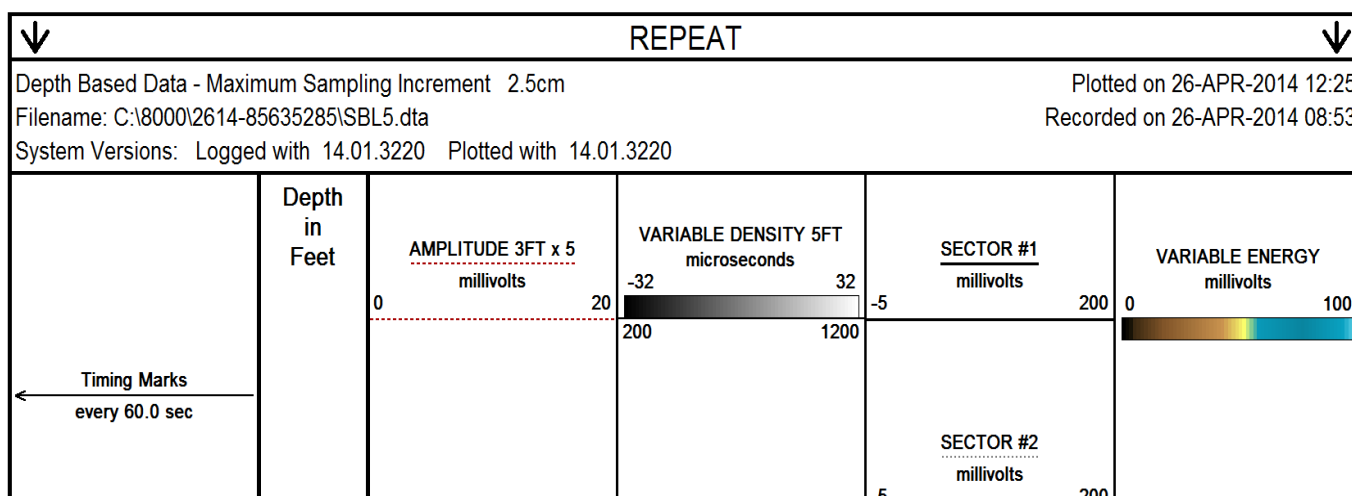
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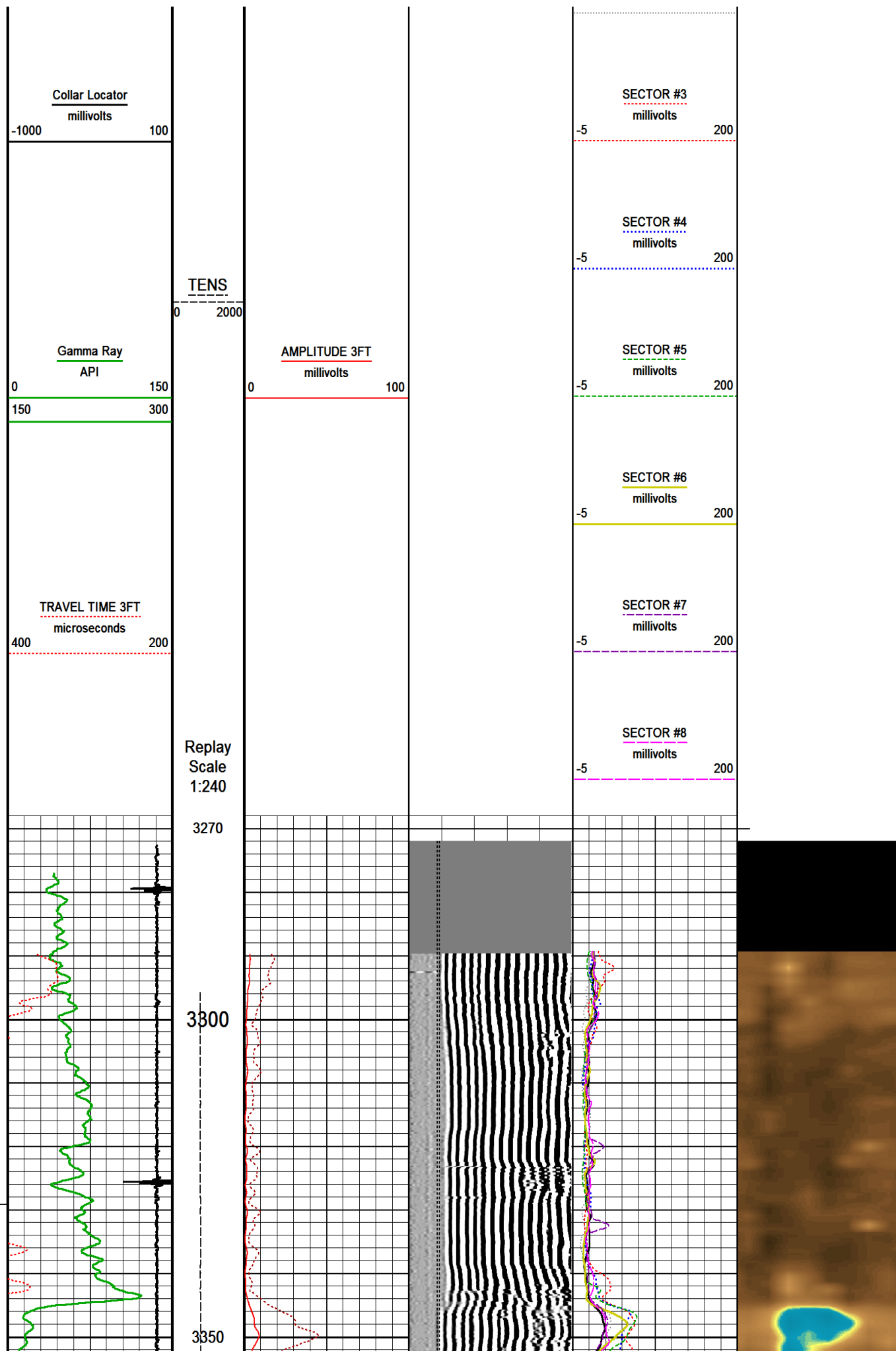
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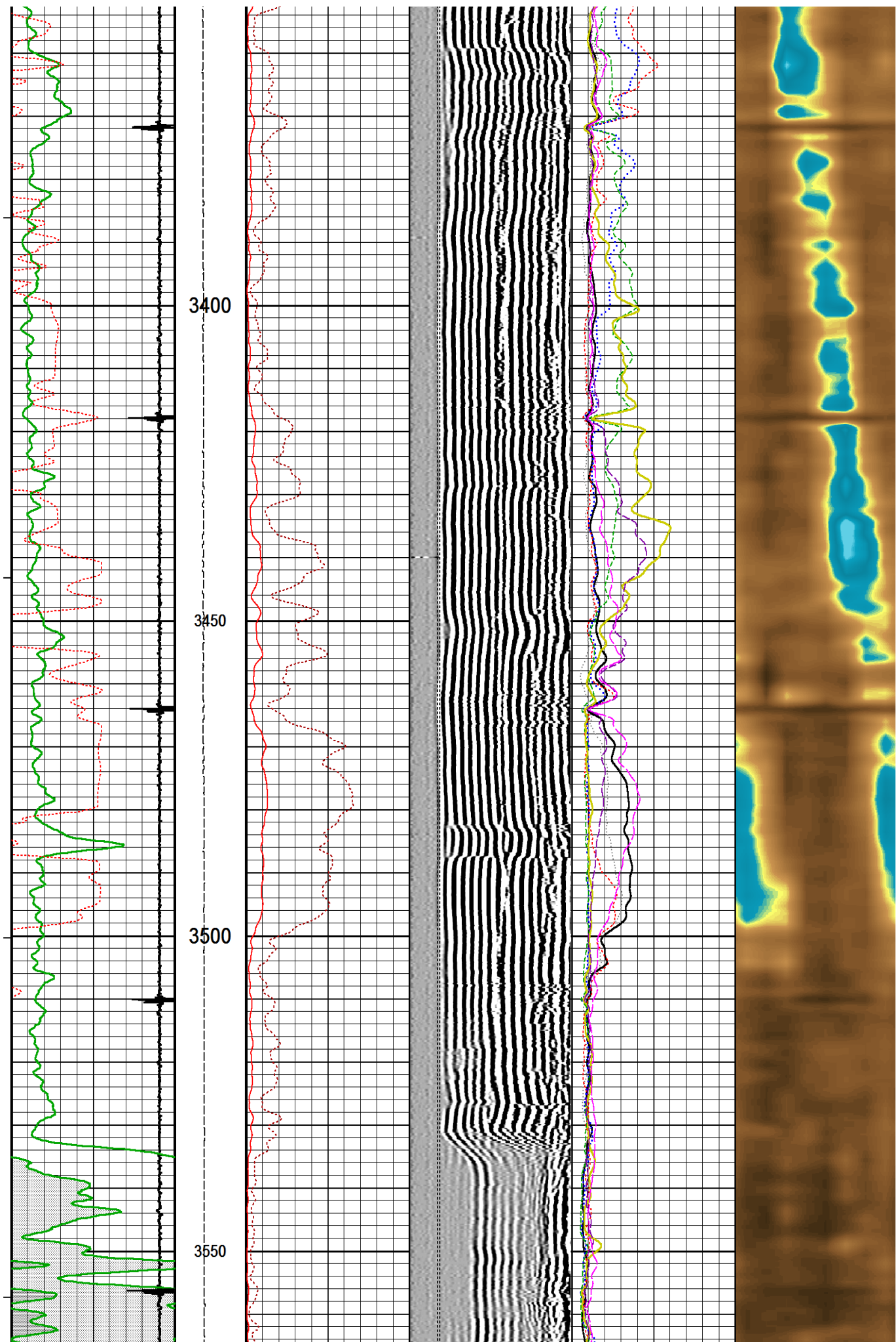
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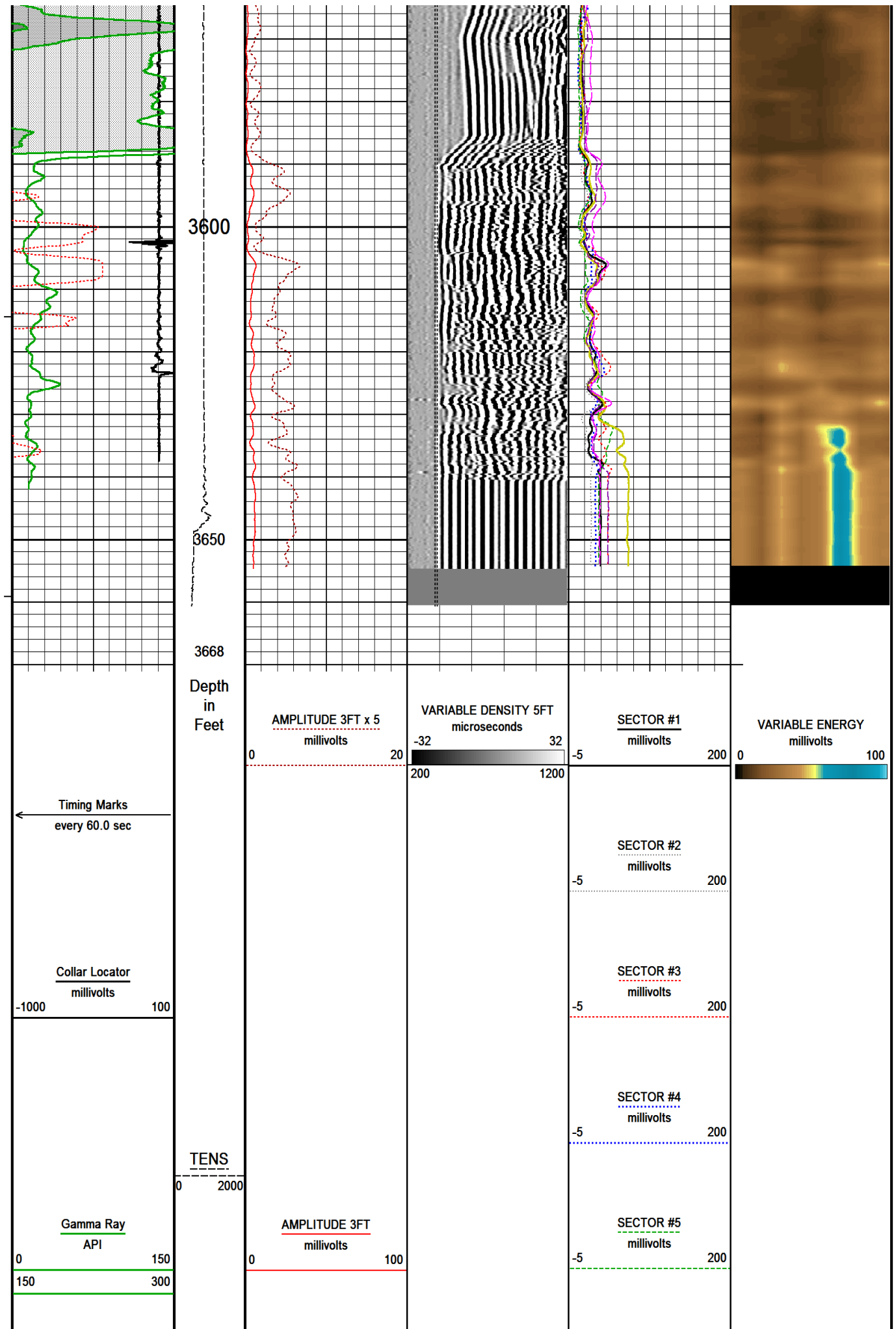
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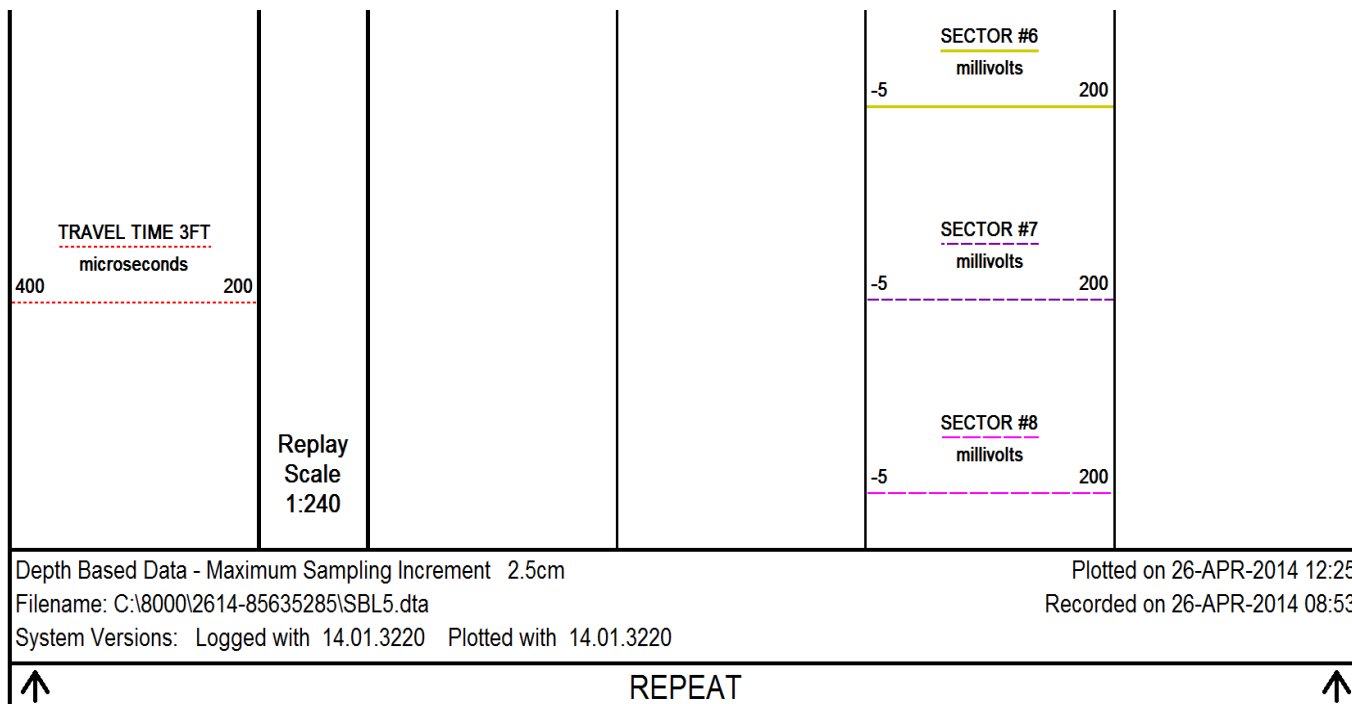
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SHOP AND FIELD CALIBRATIONS				
C:\8000\2614-85635285\SBL6.dta				
UGR Field survey Cal GRB-AB 182				
Field calibration on 00-JAN-1988 00:00				
Gamma Ray Field Survey Calibration				
Tool Type: GRB-AB		Serial No: 182		
Calibrator No:				
Background	Calibrator	Standard	Units	
0.0	170.0	100.0	CPS	
Delta Counts Per Sec: 170.0		CPS/API = 1.700		
SBT Field calibration SBT-AA 307				
Field calibration on 26-APR-2014 08:35				
Sector Bond Field Calibration				
Tool Type	SBT-AA	Serial No	307	
Sensor	Description	Standard	Measured	
AMP 3FT	100% Bond	1.00	1.00	
	Free Pipe	72.00	86.30	
AMP 5FT	100% Bond	1.60	1.70	
	Free Pipe	48.00	217.50	
1 SECTOR AMP	100% Bond	5.00	1.20	
	Free Pipe	95.00	149.70	
2 SECTOR AMP	100% Bond	5.00	9.40	
	Free Pipe	95.00	152.20	

3	SECTOR AMP	100% Bond	5.00	0.80
		Free Pipe	95.00	108.20
4	SECTOR AMP	100% Bond	5.00	0.70
		Free Pipe	95.00	250.60
5	SECTOR AMP	100% Bond	5.00	1.10
		Free Pipe	95.00	230.80
6	SECTOR AMP	100% Bond	5.00	0.90
		Free Pipe	95.00	134.90
7	SECTOR AMP	100% Bond	5.00	2.10
		Free Pipe	95.00	145.10
8	SECTOR AMP	100% Bond	5.00	8.10
		Free Pipe	95.00	191.30

SBT Constants SBT-AA 307

Last Edited on 00-JAN-1988 00:00

Min Ampl 100% Bond	2.00 mv
Max Ampl 0% Bond	90.00 mv
Casing Size	5.50 IN
Casing Weight	15.5 LB/F
3' TT Correction	-999.3 us
DT Fluid	200.0 US/F
Fast Formation TT	38.5 US/F
Cement Cmpr Strength	580 PSI
Casing Velocity	57.00 US/F
Maximum Attenuation	12.00 DB/F

SMS Constants SMS-A 0

Last Edited on 00-JAN-1988 00:00

Cement Weight	0.00 LB/G
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DOWNHOLE EQUIPMENT

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Mono-Cablehead
MCH-AA 0 LG: 1.02 ft WT: 2.2 lb OD: 1.417 in

2.75in Bond Cent
CEN-AA 202 LG: 2.49 ft WT: 11.0 lb OD: 2.717 in

2.75" CCL/Telemetry Sub
CTB-AB 308 LG: 3.40 ft WT: 39.7 lb OD: 2.756 in



23.23 ft CCL - Collar Locator

2.75" Gamma Ray Tool

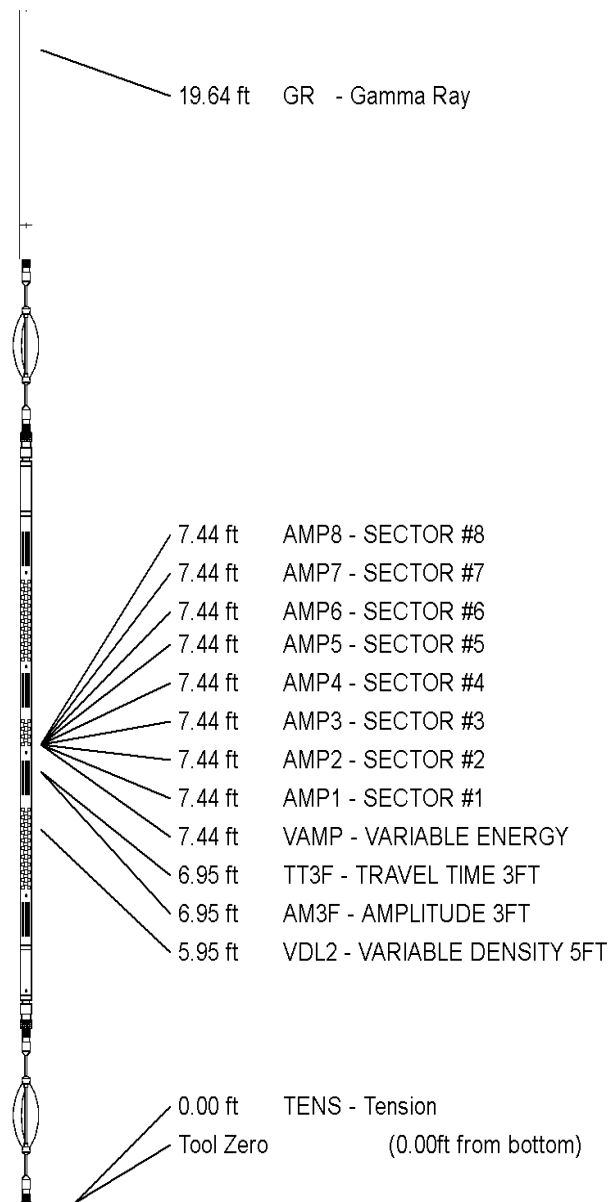
2.75" Gamma Ray Tool
GRB-AB 182 LG: 4.71 ft WT: 59.5 lb OD: 2.756 in

2.75in SBT Middle
CEN-BA 141 LG: 3.08 ft WT: 22.0 lb OD: 2.717 in

Sector Bond Tool
SBT-AA 307 LG: 10.32 ft WT: 90.4 lb OD: 2.717 in

2.75in Bond Cent
CEN-AA 197 LG: 2.49 ft WT: 11.0 lb OD: 2.717 in

Total Length: 27.51 ft Weight: 235.9 lb



EQUIPMENT TABLE

Run No	Tool Type	Tool Number	Tool Name
1	MCH-AA	0	Mono-Cablehead
1	CEN-AA	202	2.75in Bond Cent
1	CTB-AB	308	2.75" CCL/Telemetry Sub
1	GRB-AB	182	2.75" Gamma Ray Tool
1	CEN-BA	141	2.75in SBT Middle
1	SBT-AA	307	Sector Bond Tool
1	CEN-AA	197	2.75in Bond Cent

COMPANY	TAOS RESOURCES OPERATING COMPANY, LLC
WELL	WEST MADDIX UNIT 23
FIELD	MADDIX NORTH
PROVINCE/COUNTY	COWLEY
COUNTRY/STATE	KANSAS

Elevation Kelly Bushing	1295.00	feet	Bottom Log Interval	3641.00	feet
Elevation Drill Floor	1293.00	feet	Depth Driller	3700.00	feet
Elevation Ground Level	1285.00	feet	Depth Logger	3646.00	feet





Weatherford®

SECTOR BOND LOG