

HALLIBURTON

FULL WAVE SONIC  
SEMBLANCE  
PROCESSED LOG  
5"=100'

COMPANY CARSON LAKE BASIN PROJECT, LLC  
WELL SW3A 17-16 O  
FIELD SALT WELLS  
COUNTY CHURCHILL  
STATE NV

Location: SW 1/4 SW 1/4 OF  
SEC 16 TWN 17N RGE 30E

Elevations: K.B.: 3972.0' R.T.: ----- G.L.: 3953.0'

Date Processed	2007-12-28	Logs Processed	FULL WAVE SONIC
Job Number	5442522	Date Logged	2007-10-23
Interval Processed	518'-3815'	Type Fluid In Hole	GEL
Processed By	R.DENTON	Location	WDLD
Processed At	BKFLD RES		

--- COMPUTER PROCESSED PRODUCT ---

Fold Here

Service Ticket No.:	5442522	API Serial No.:	27-001-90332	PGM Version:	XL v5.1
DIRECTIONAL INFORMATION					
Maximum Deviation		deg. @		KOP	
Remarks:					
ANNULAR HOLE VOLUME CALCULATED USING 9.625" CASING.					
HRID-FIAC-HRTI-FWS-SDLT-DSNT-NGRT-RWCH RUN IN COMBINATION.					
POROSITY CALCULATED USING A SANDSTONE MATRIX 2.65 GM/CC AND 55.5 USEC.					
RHOB SCALES 1.80-2.80 CHOSEN FOR PRESENTATION.					
MAX. READ THERMOMETERS: 1-153F, 2-153F, 3-154F.					
SONIC POROSITY CALCULATED USING RAYMER-HUNT-GARDNER WITH MATRIX OF 55.5 uSec.					
CREW: D, ROSENSTEEL, J. CABRERRA. RIG: BOOM DRILLING NO. 2.					
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.					
HALLIBURTON					

SEMBLANCE PROCESSING PARAMETERS

COMPRESSIONAL SLOWNESS PROCESSING

INPUT: WFFW FILTERED OUTPUT: WFFW\_F  
FILTERING APPLIED: BANDPASS 5.0 - 17.0 KHz  
SLOWNESS RANGE: 40 - 340 uS/FT

WAVE SONIC DATA OF THE FOLLOWING CURVES:

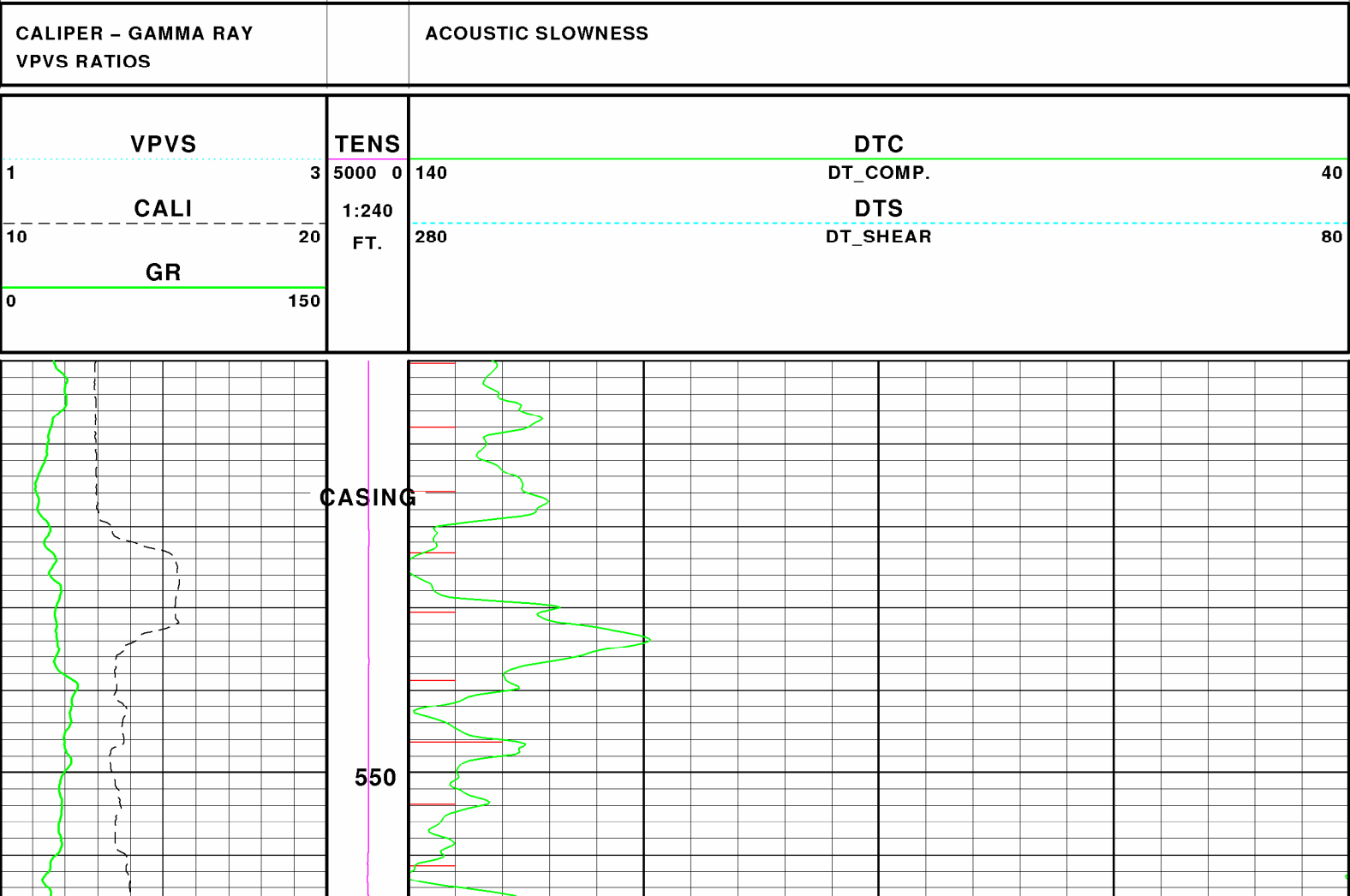
CURVE	UNIT	DESCRIPTION
GR	GAPI	NATURAL GAMMA
DTC	uS/FT	COMPRESSIONAL SLOWNESS
DTS	uS/FT	FLEXURAL SHEAR SLOWNESS - FROM WFFW_BS
VPVS		VELOCITY RATIO - DTS/DTC

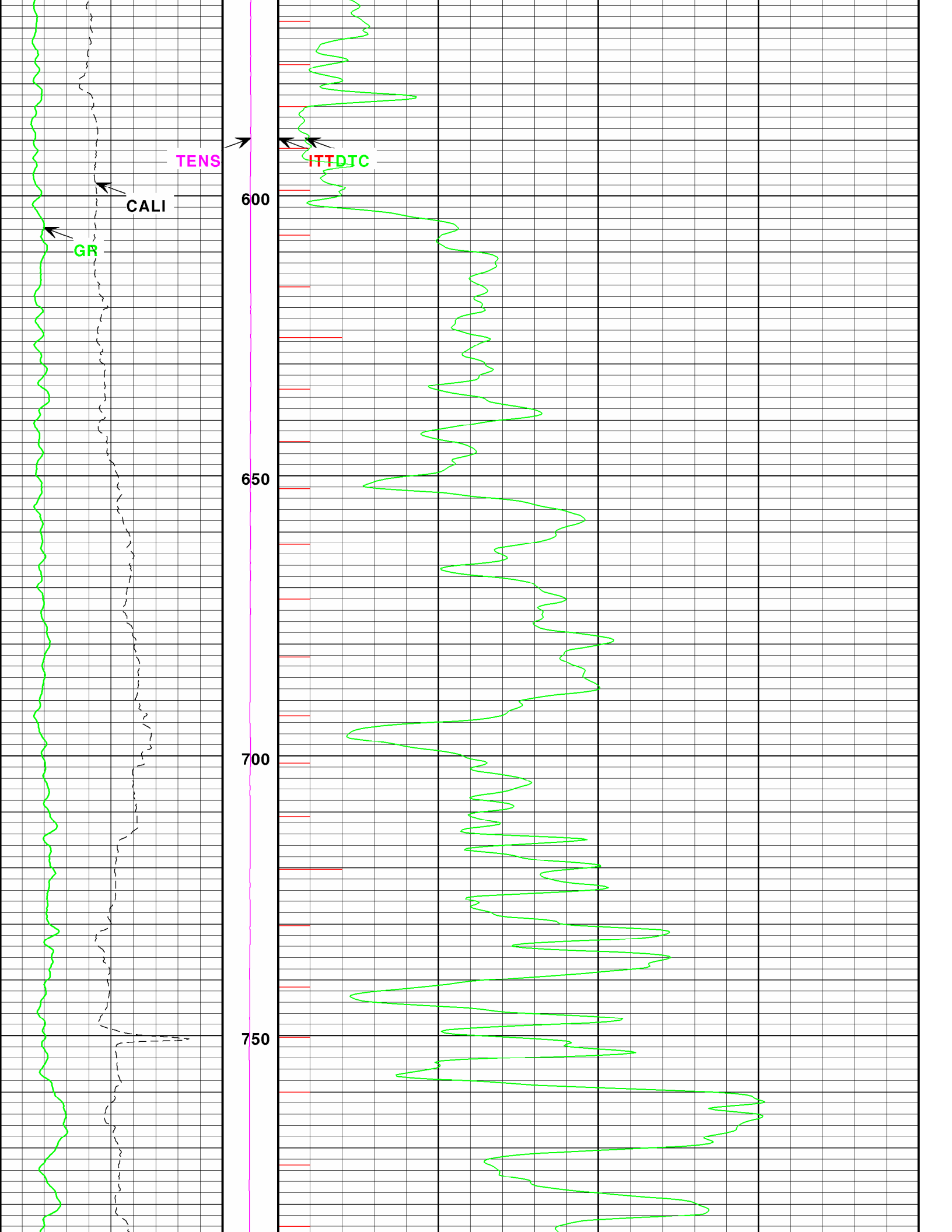
5"=100' FULL WAVE LOG

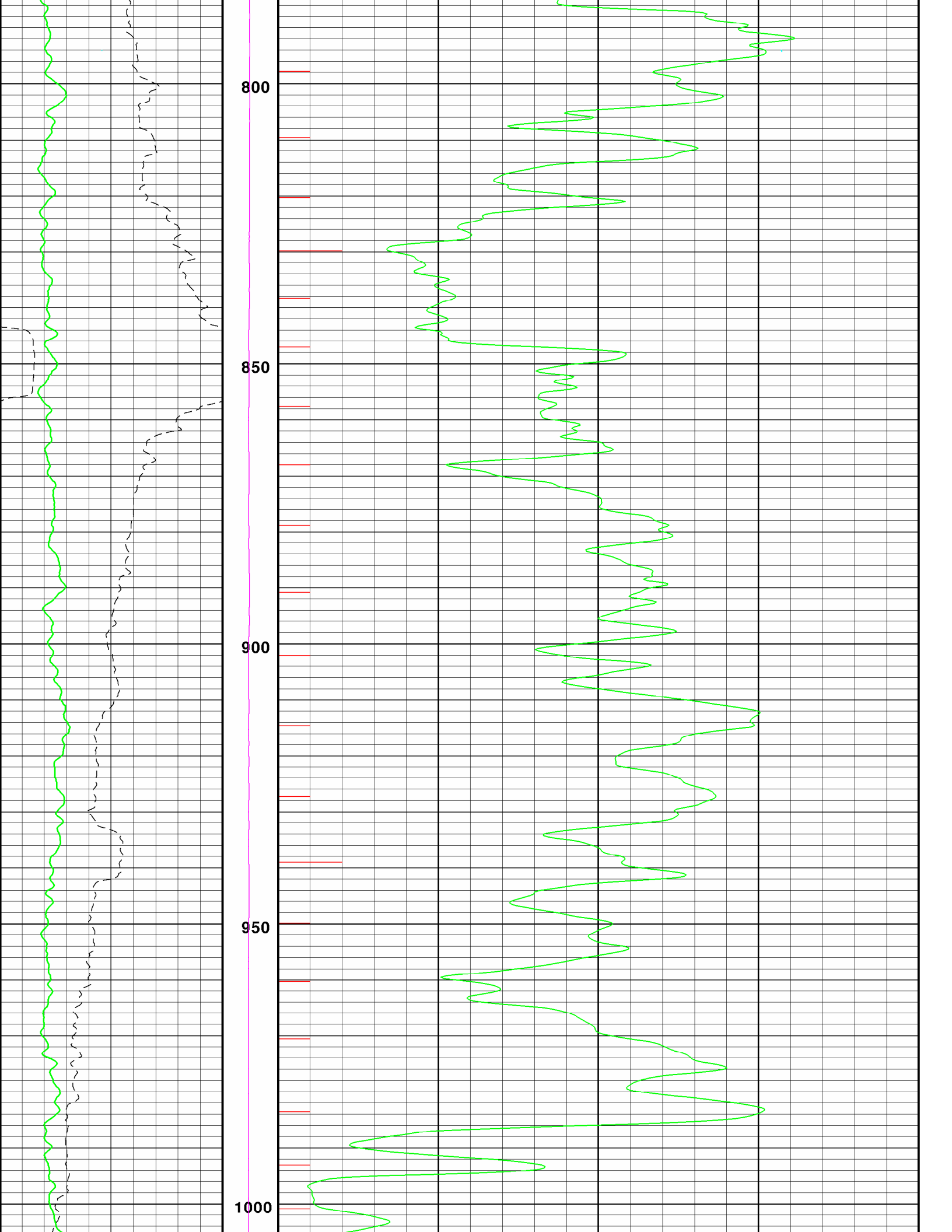
HALLIBURTON

Version No: | hc:3.0  
Data File: SW\_3A\_17\_16\_WFFW.cls  
Format File: fullwaveplot.spc  
Plot Time: 2007-12-31 09:53:49  
Database Time: 10:52:22

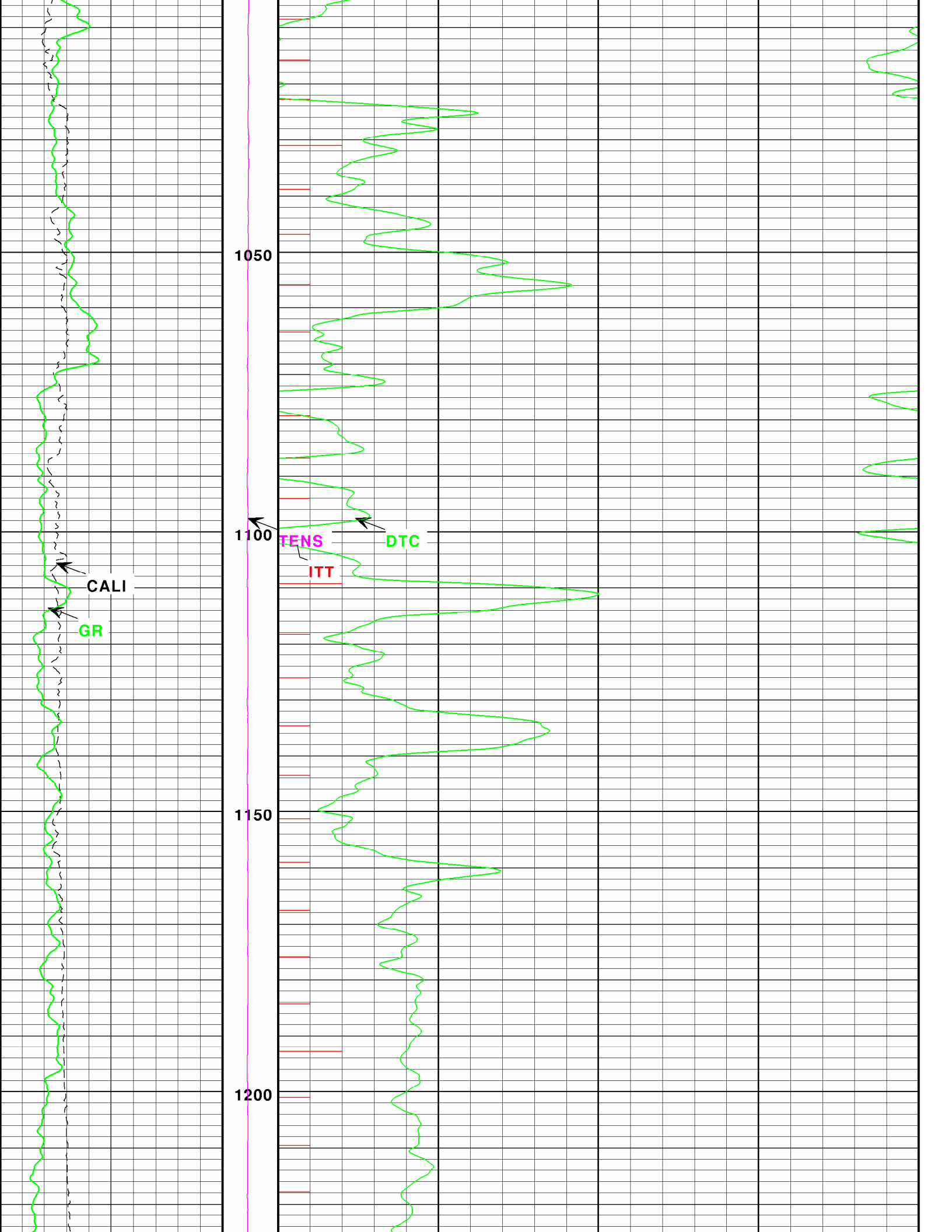
Top Depth: 500.00  
Bottom Depth: 3835.50

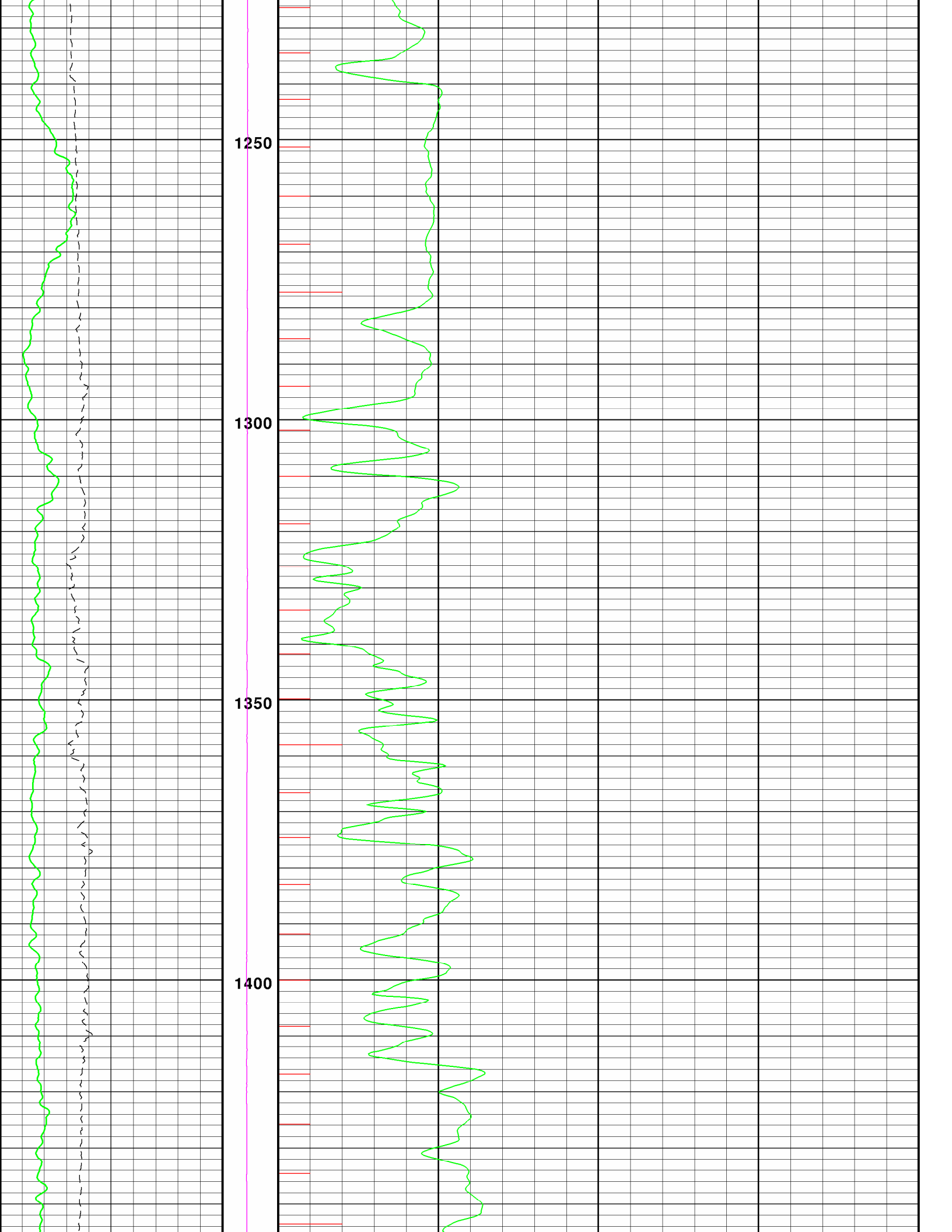


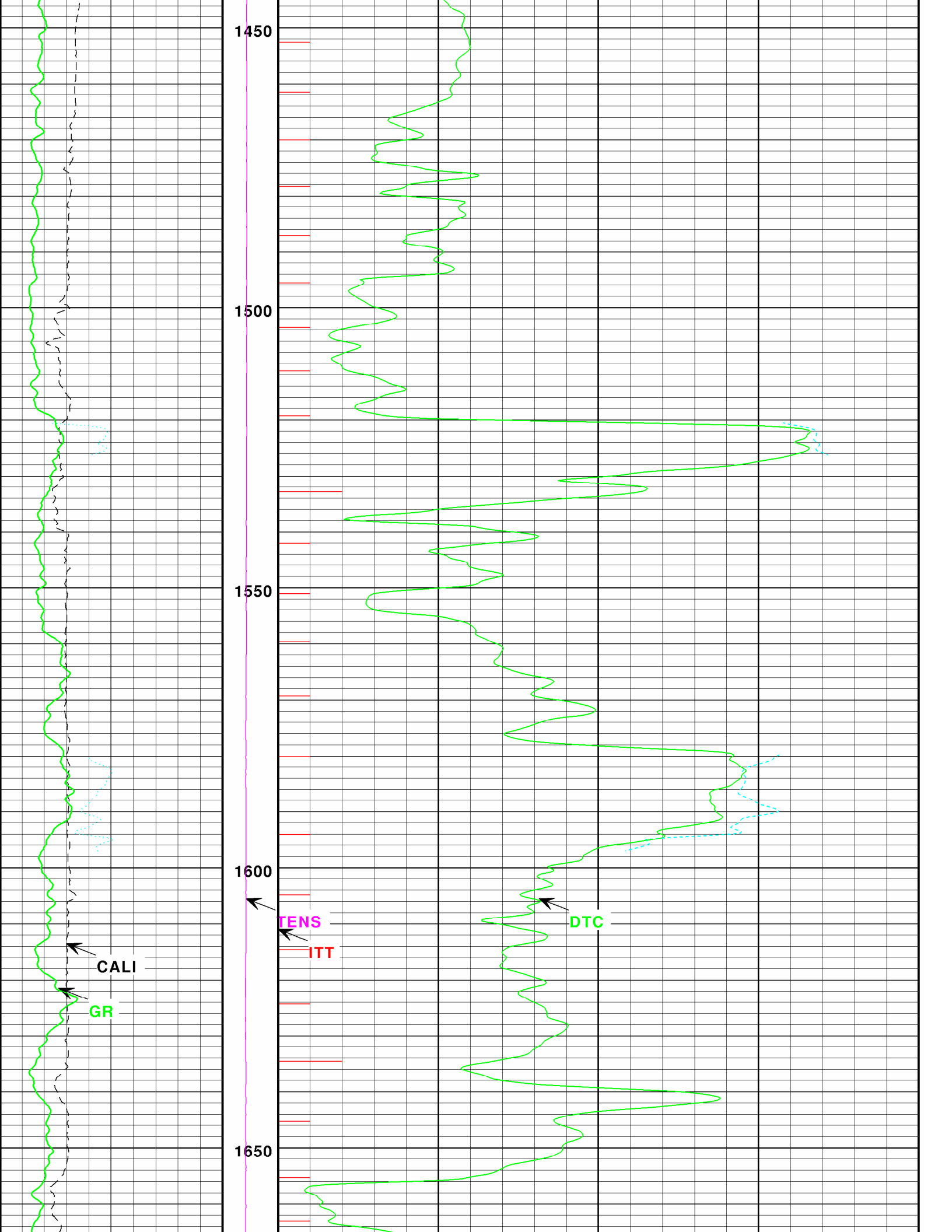


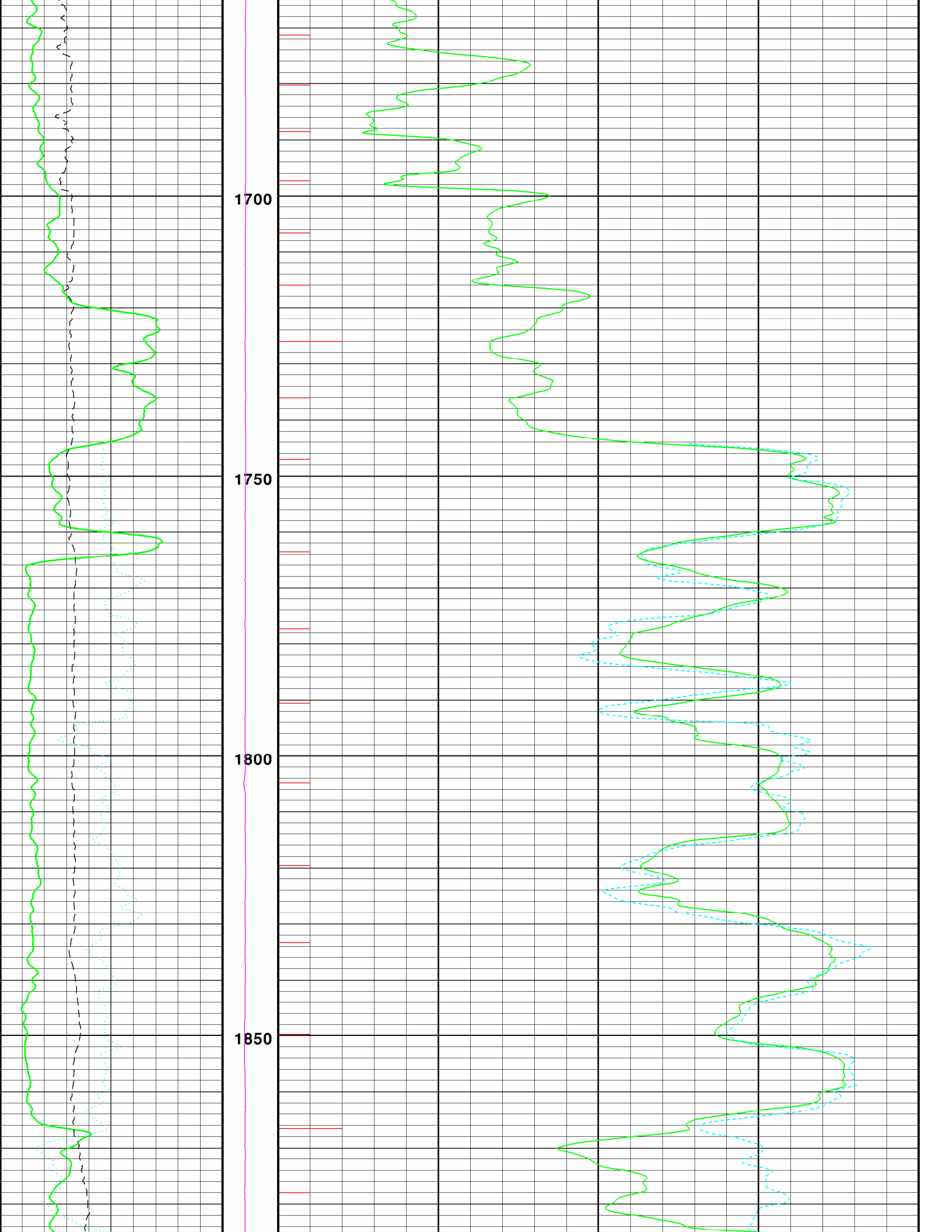


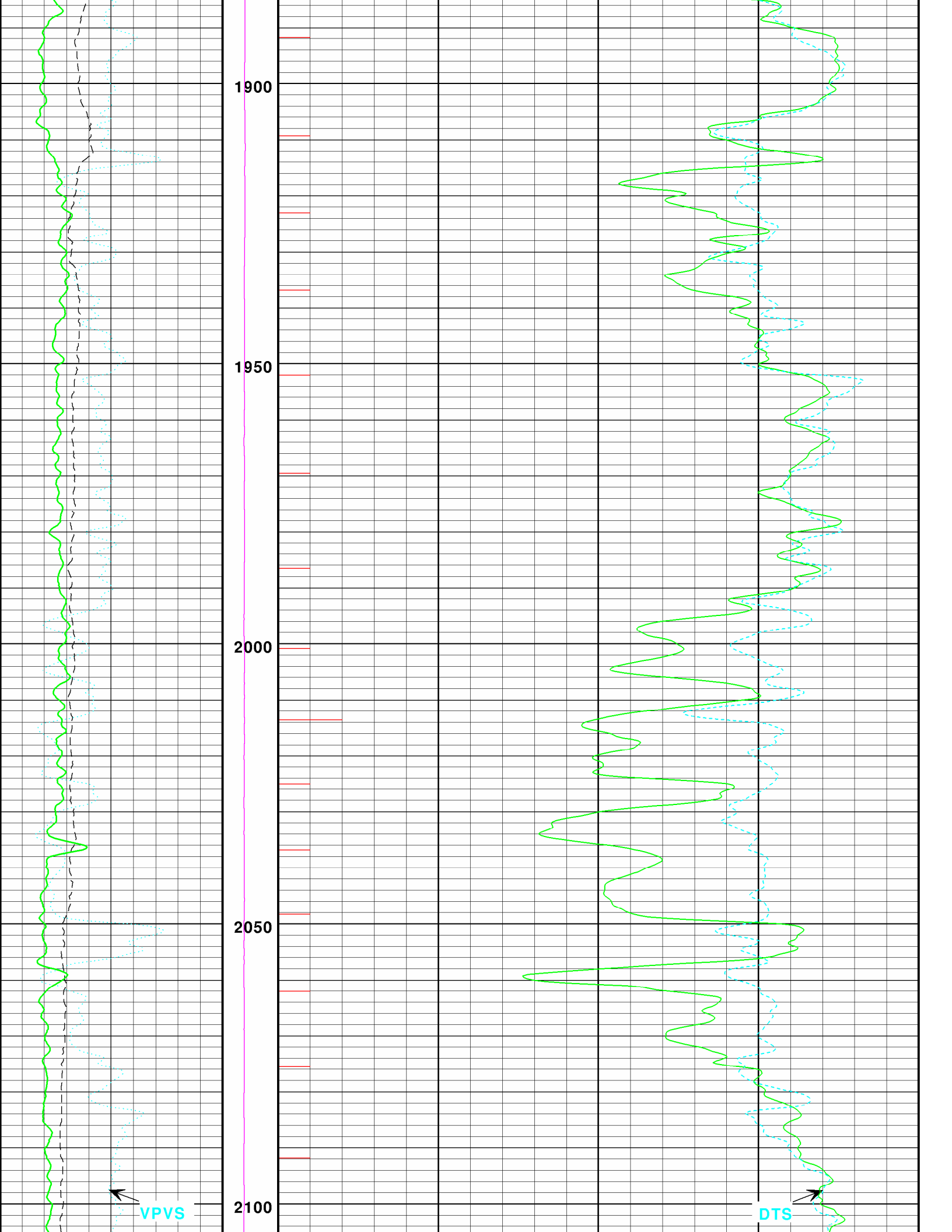


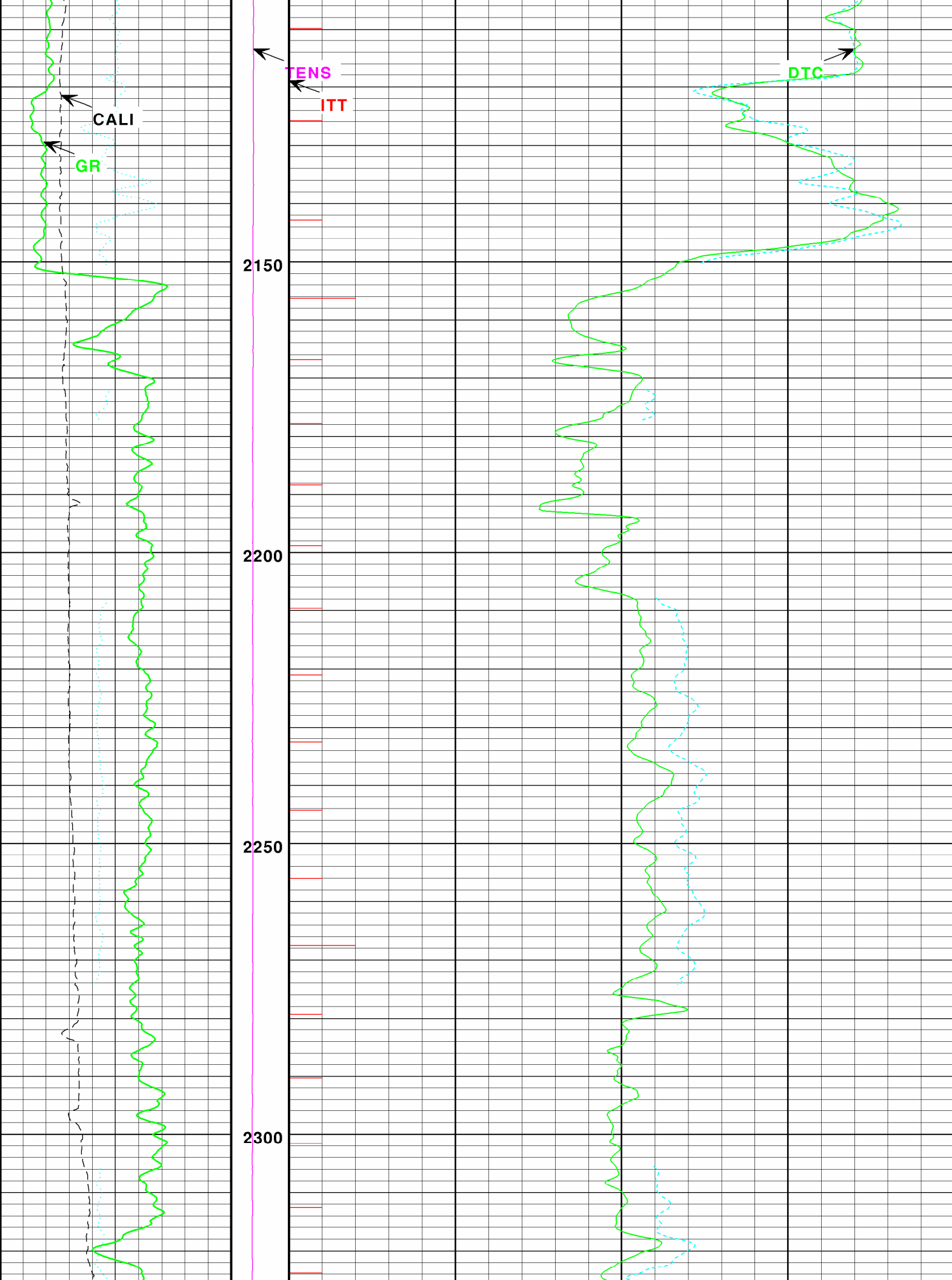


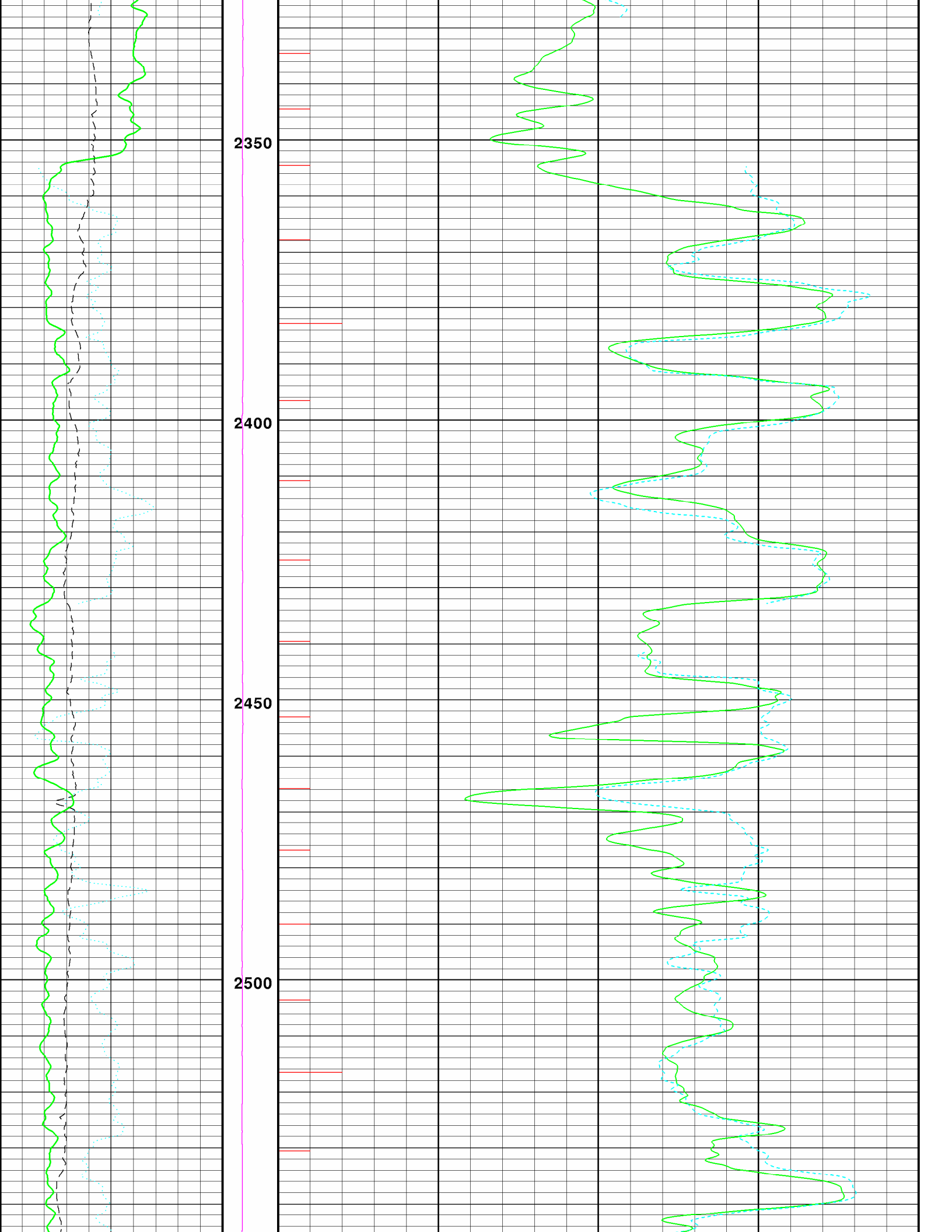


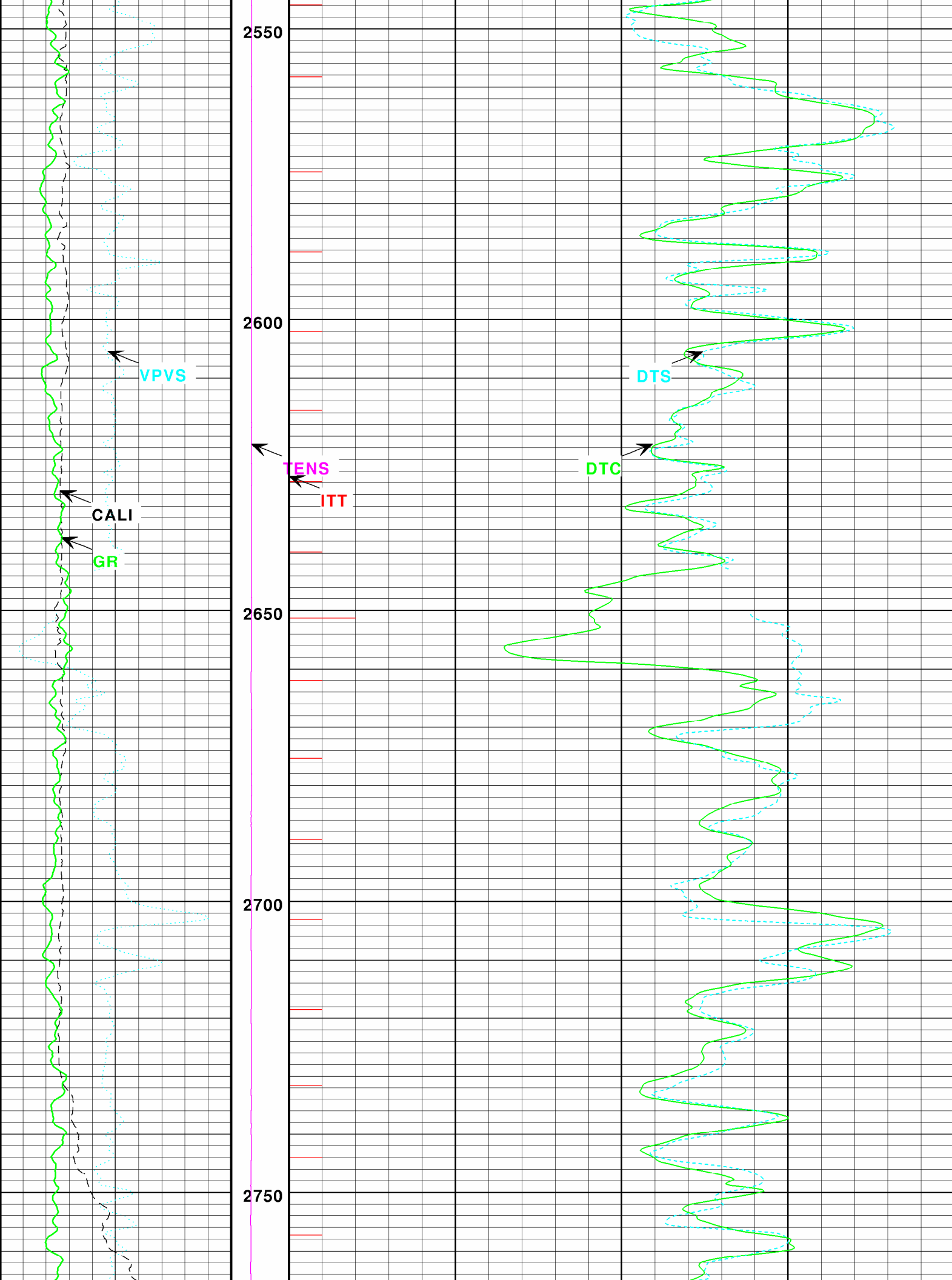




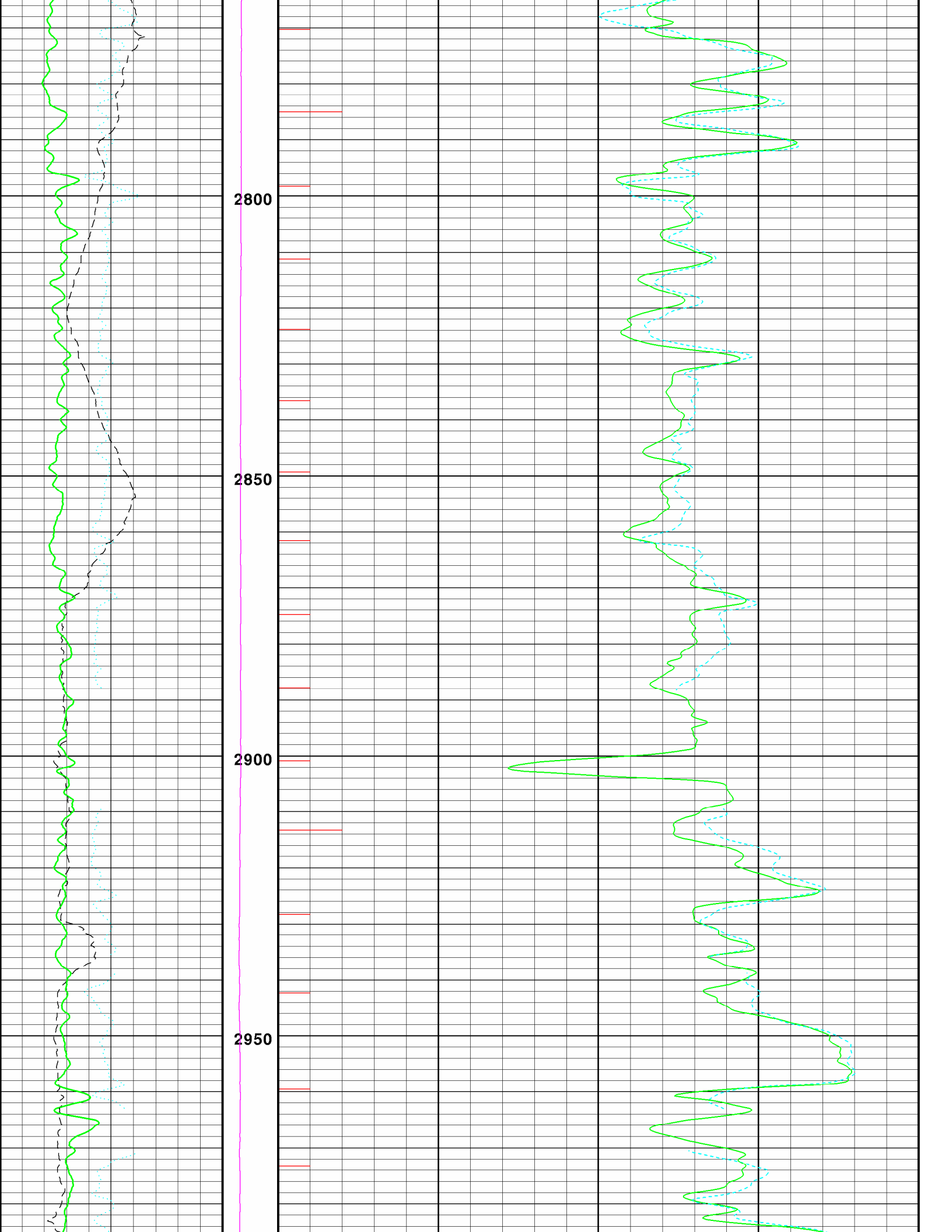


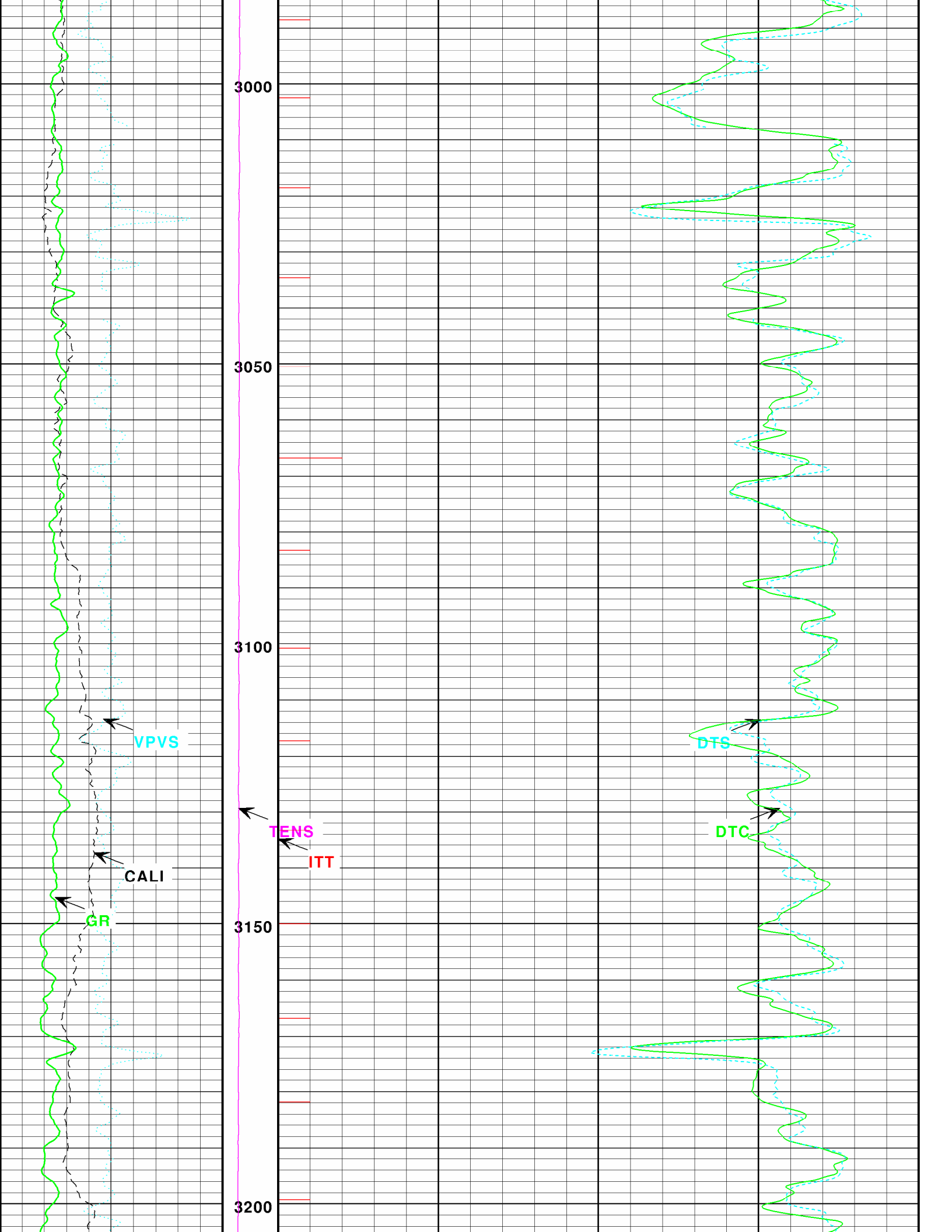


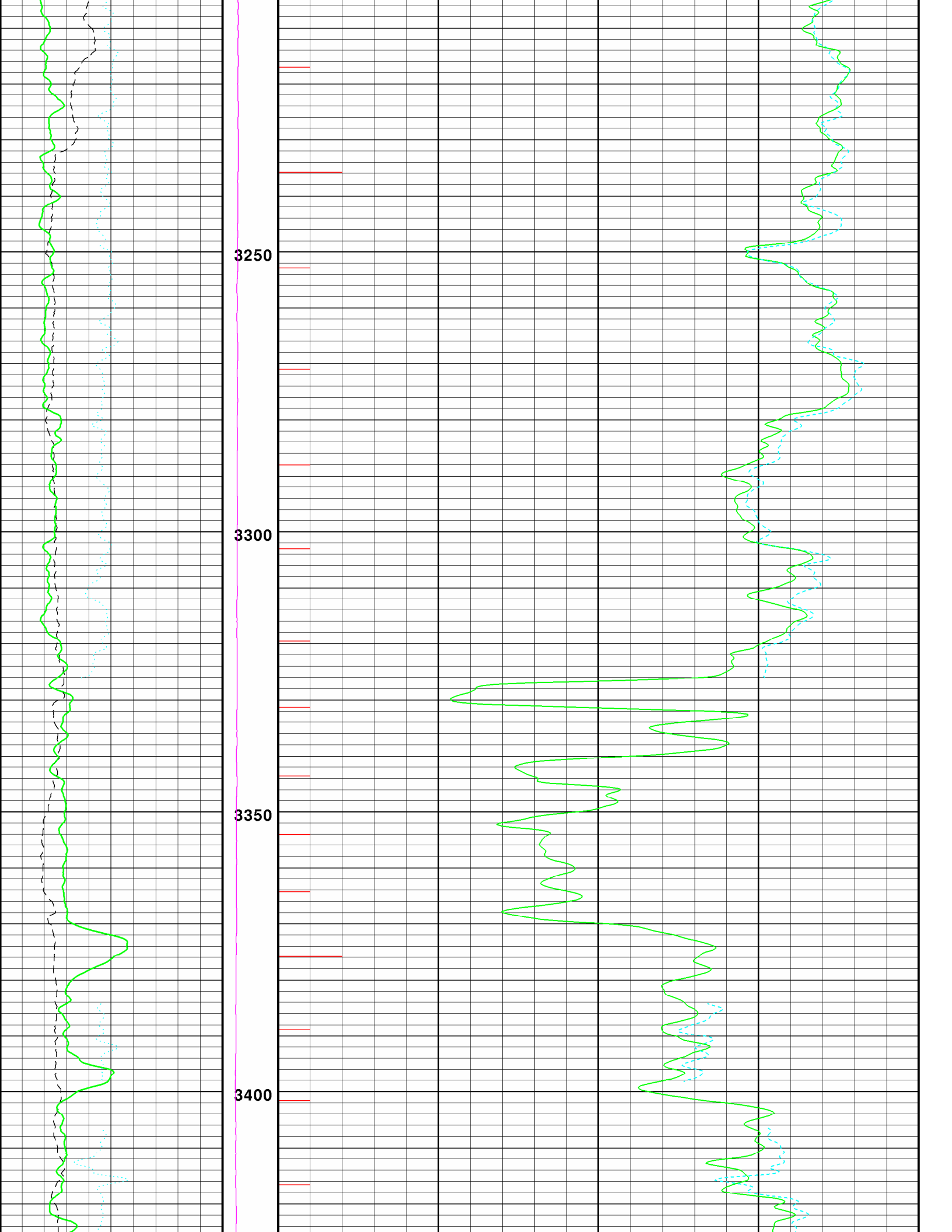


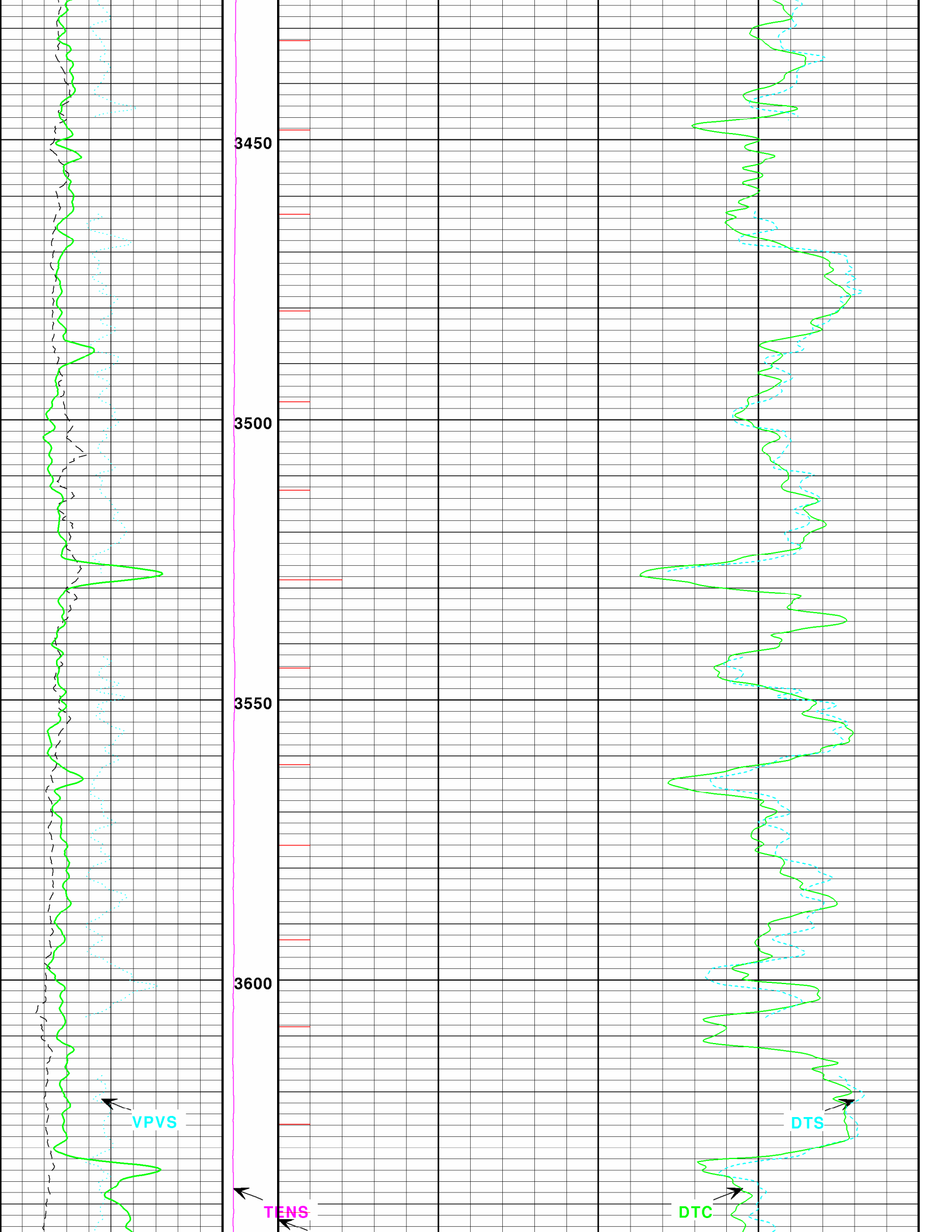


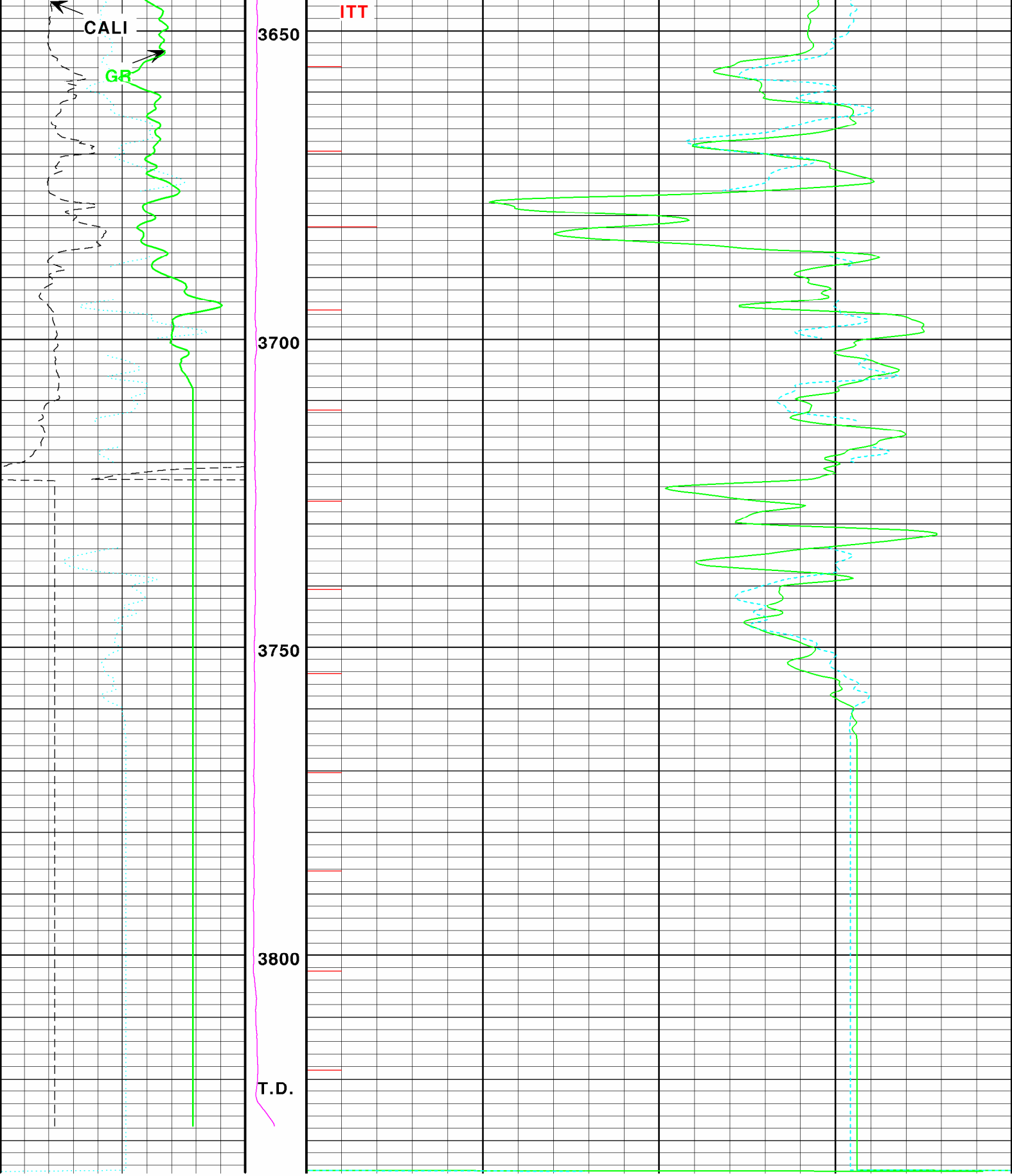












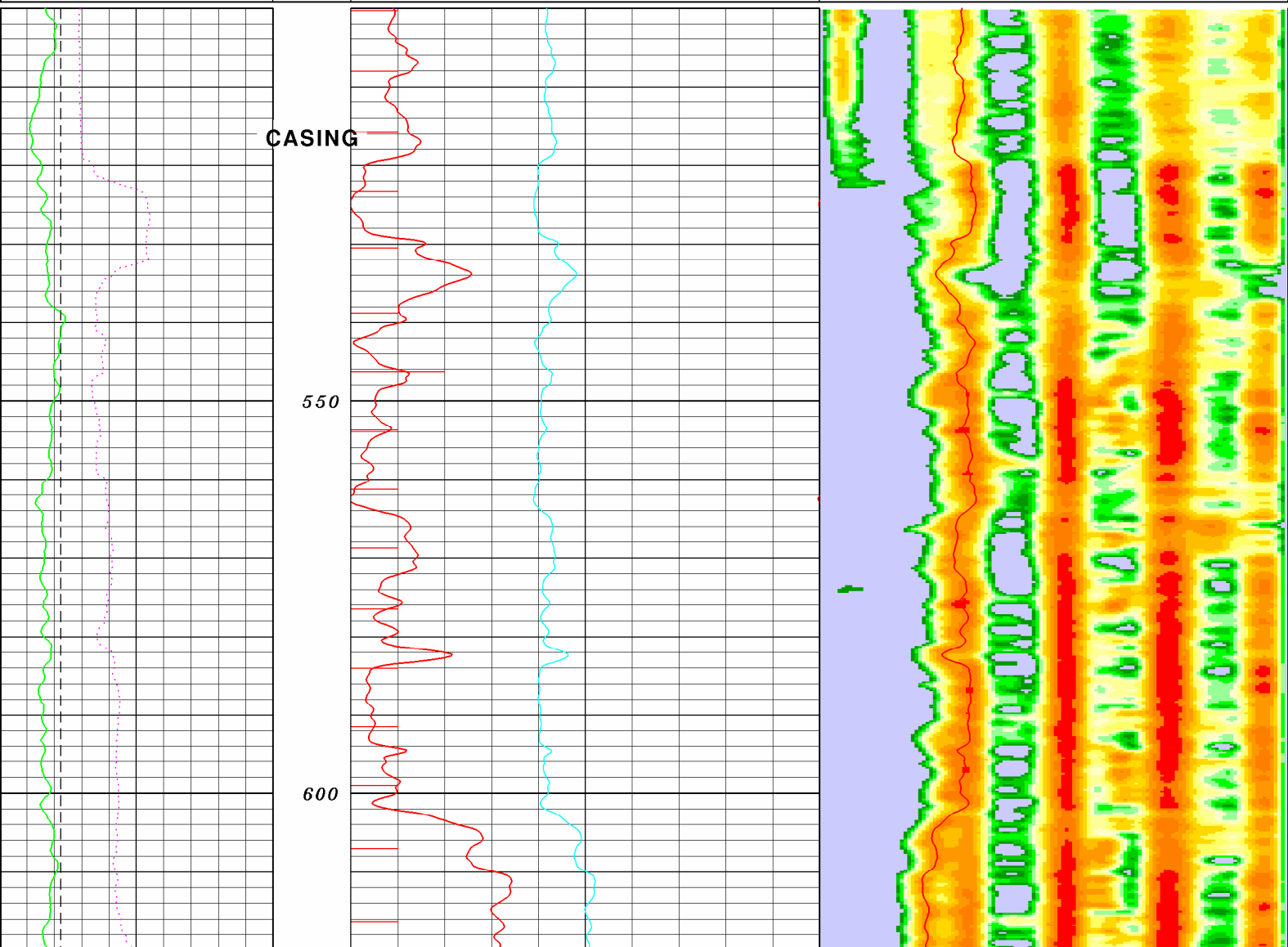
GR				DTS	
0	150	1:240	280	DT_SHEAR	80
CALI		FT.		DTC	
10	20	TENS		DT_COMP.	40
1	3	5000 0	140		

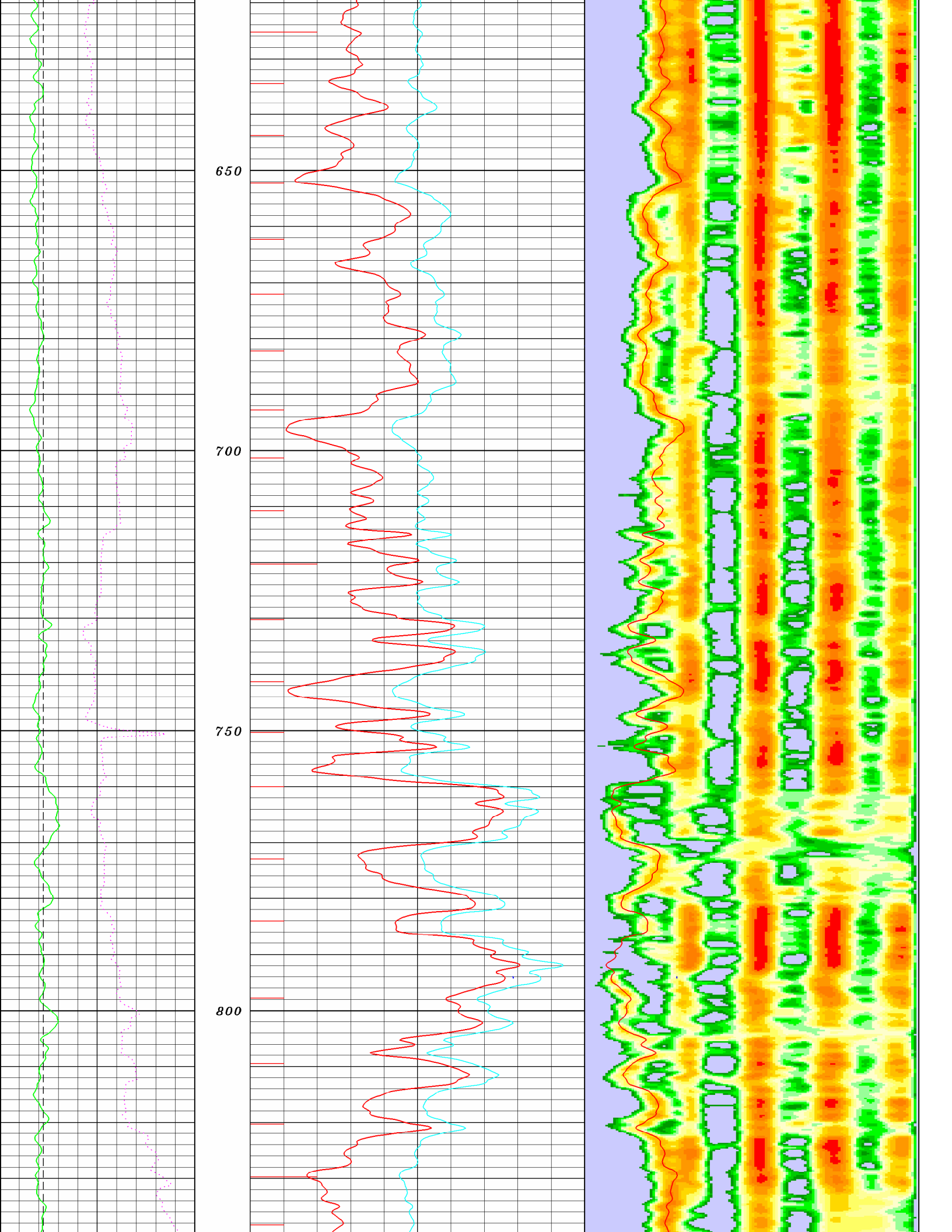
CALIPER – GAMMA RAY VPVS RATIOS		ACOUSTIC SLOWNESS	
HALLIBURTON	Version No:   hc:3.0		
	Data File: SW_3A_17_16_WFFW.cls		
	Format File: fullwaveplot.spc		
	Plot Time: 2007-12-31 09:53:56		Top Depth: 500.00
	Database Time: 10:52:22		Bottom Depth: 3835.50

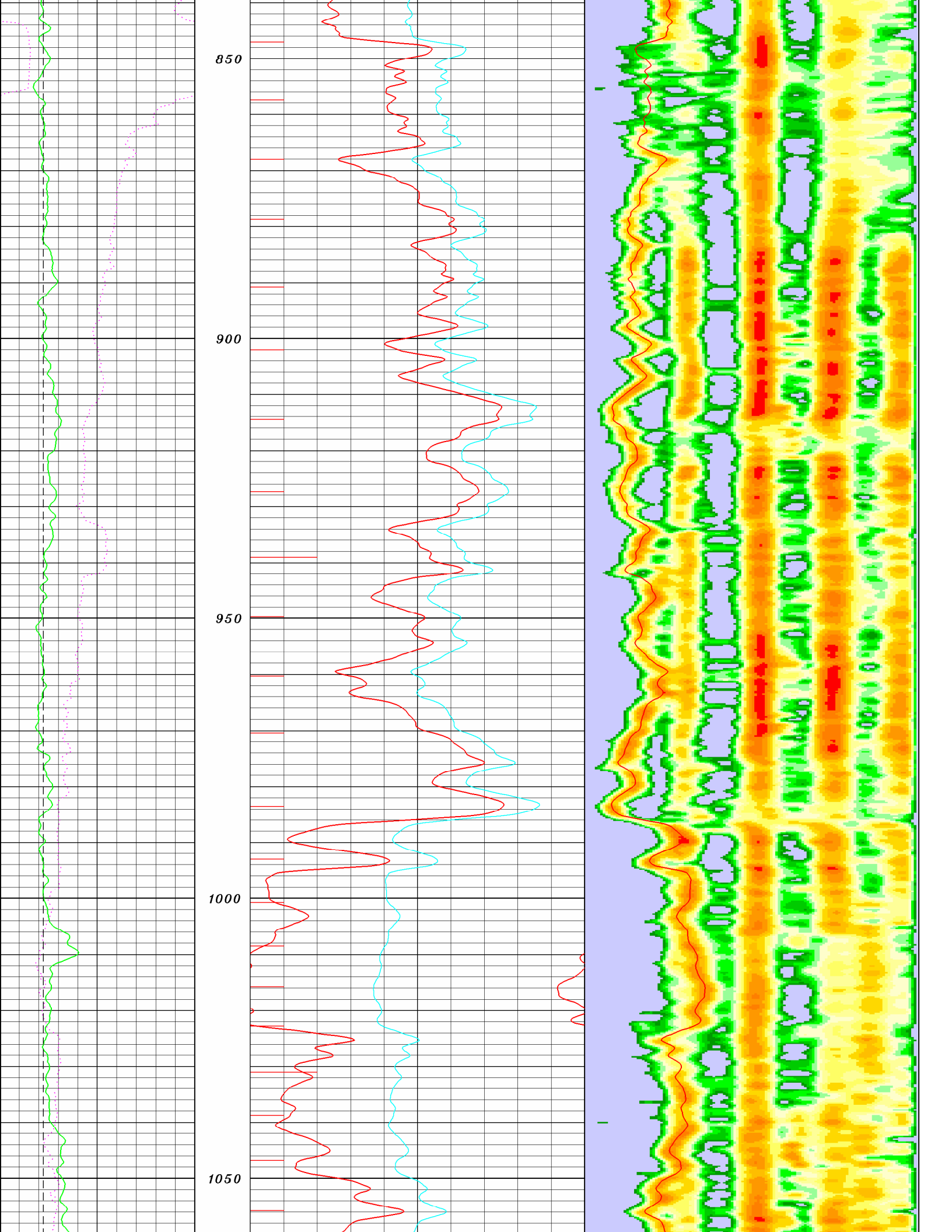
5"=100' SEMBLANCE LOG

HALLIBURTON	Version No:   hc:3.0		
	Data File: SW_3A_17_16_WFFW.cls		
	Format File: FWST_DIAG.spc		
	Plot Time: 2007-12-31 09:57:11		Top Depth: 500.00
	Database Time: 10:52:22		Bottom Depth: 3835.50

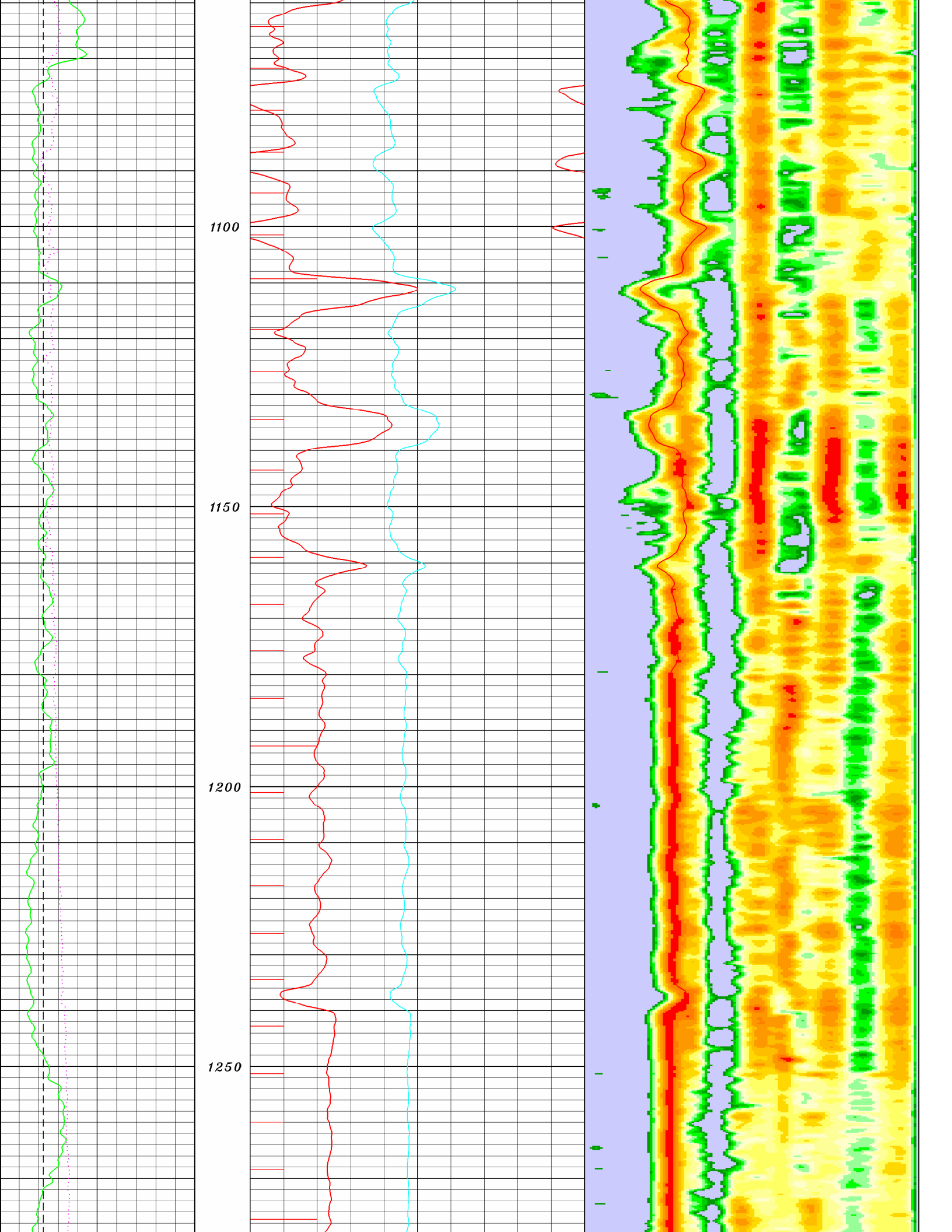
GAMMA RAY BOREHOLE SIZE		ACOUSTIC SLOWNESS	SEMPBLANCE – DT COMPRESSION 40 – 340 USEC
<div>GR</div> <div>CALI</div> <div>BS</div>	1:240 FT.	<div>SPHI</div> <div>DTS</div> <div>DTC</div>	<div>WFFW_FBS</div> <div>DTC</div> <div>DTS</div>

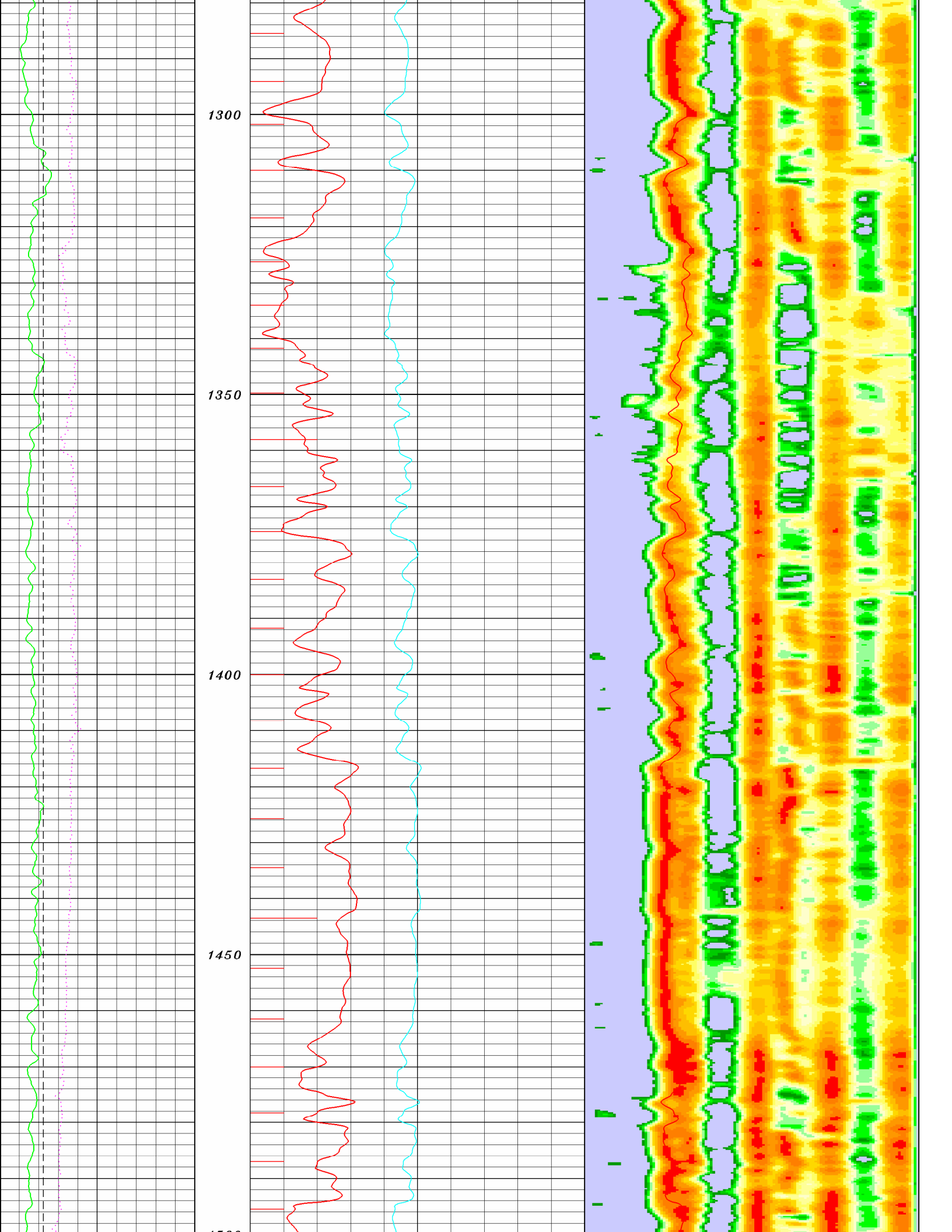


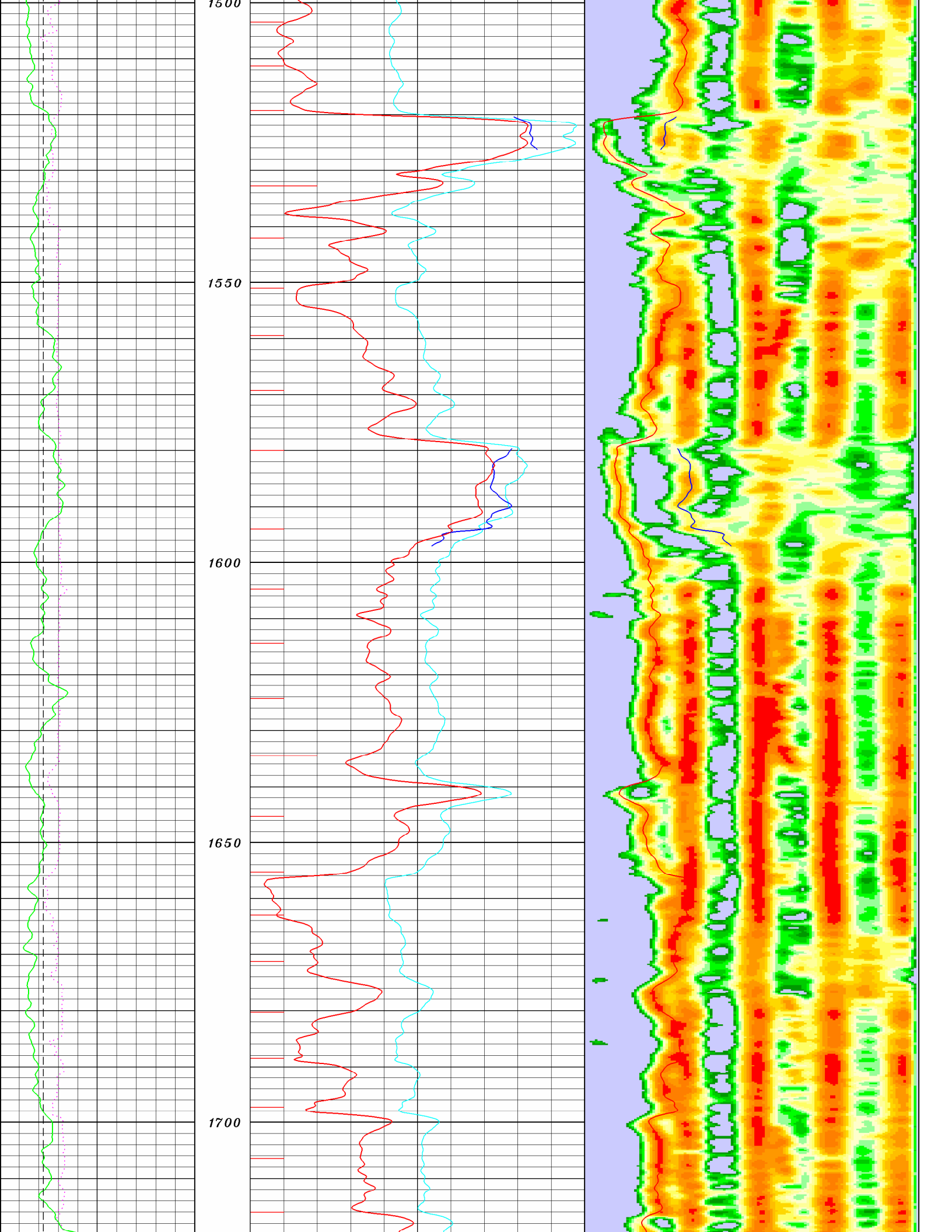


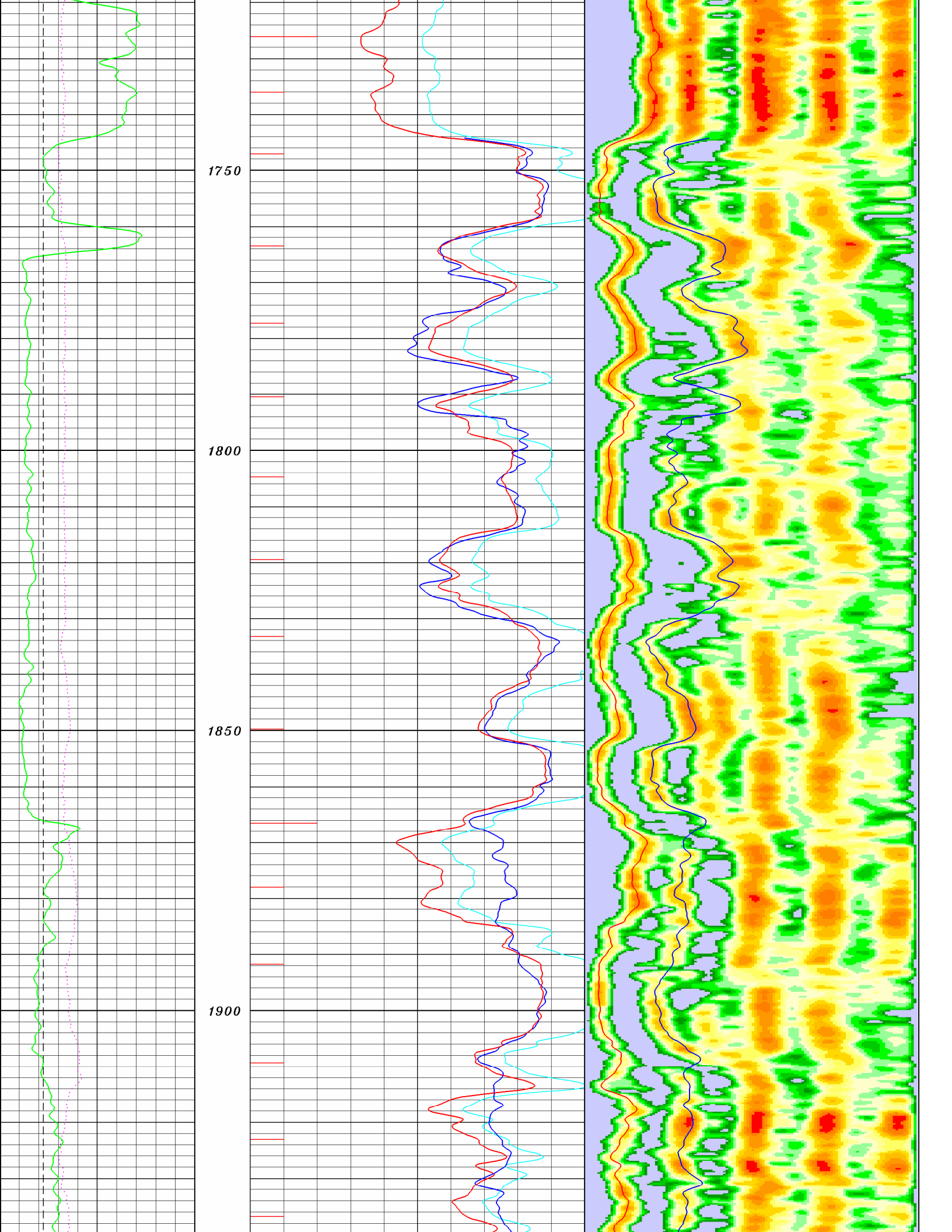


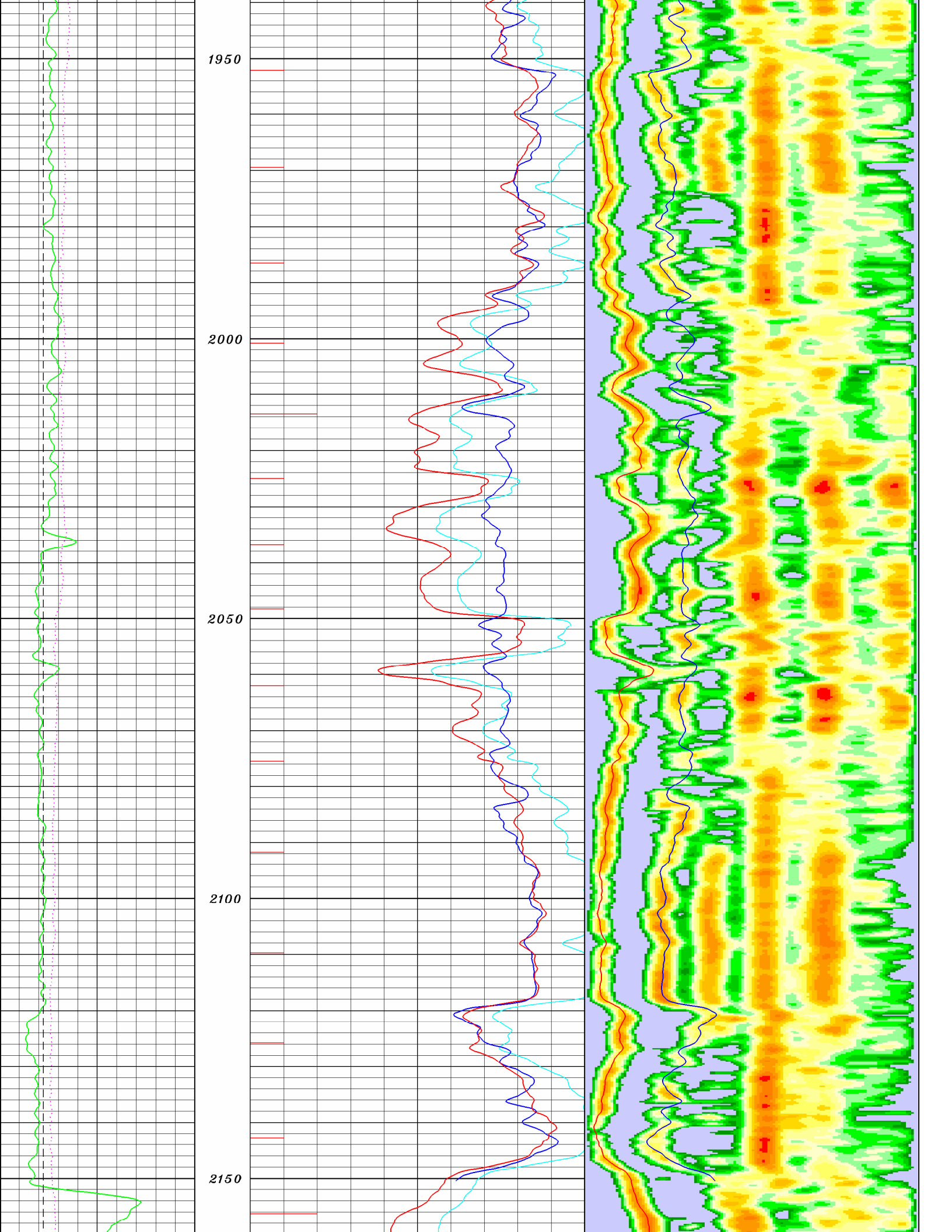


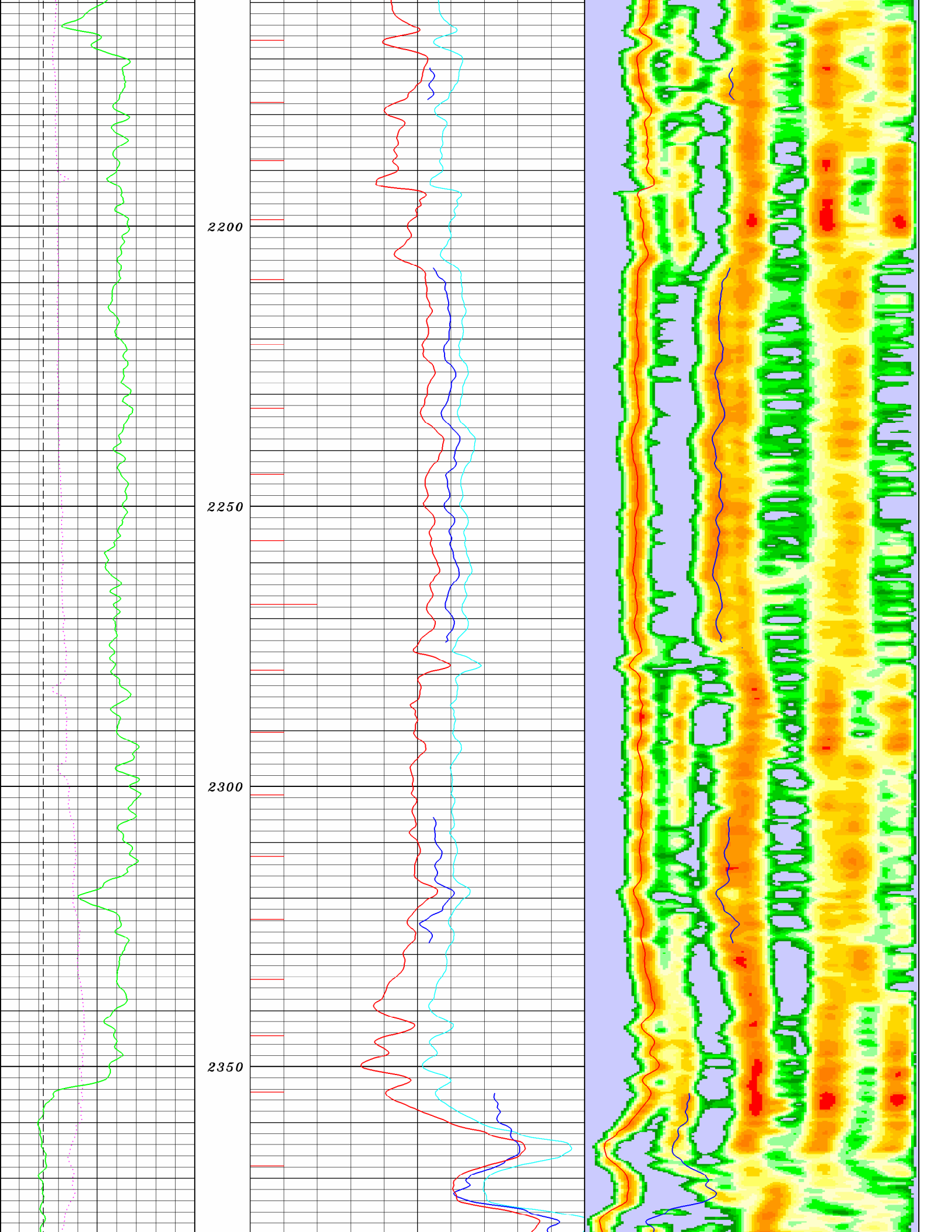


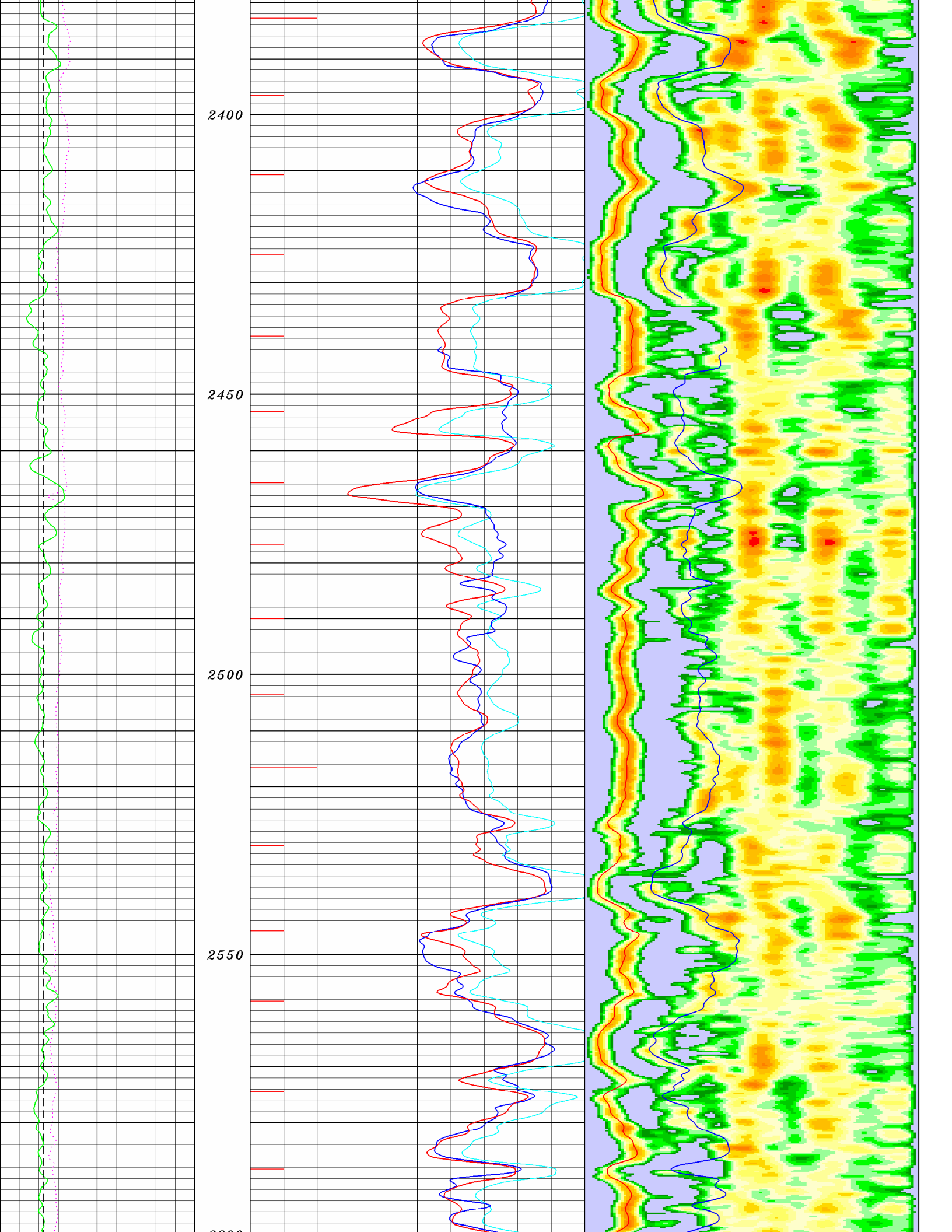




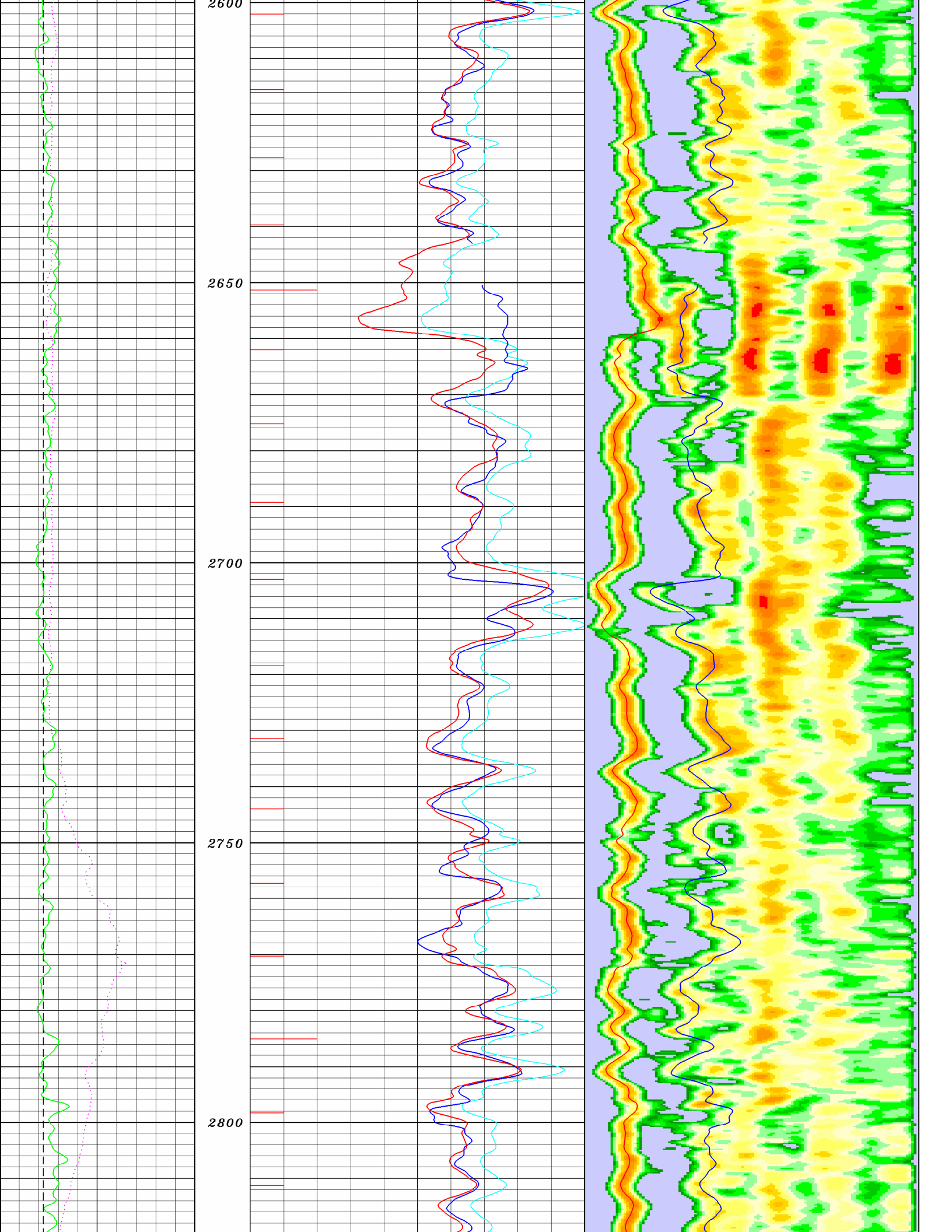




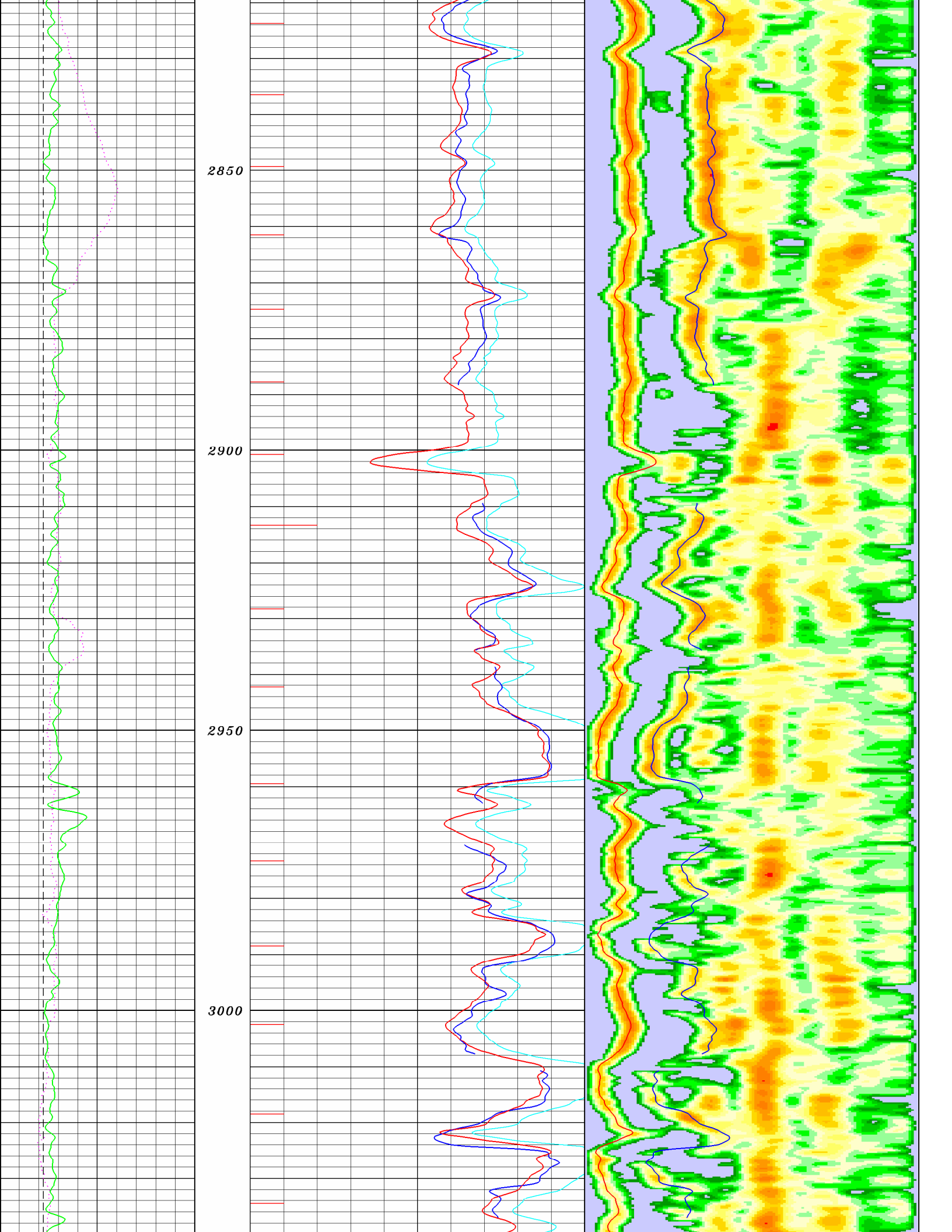


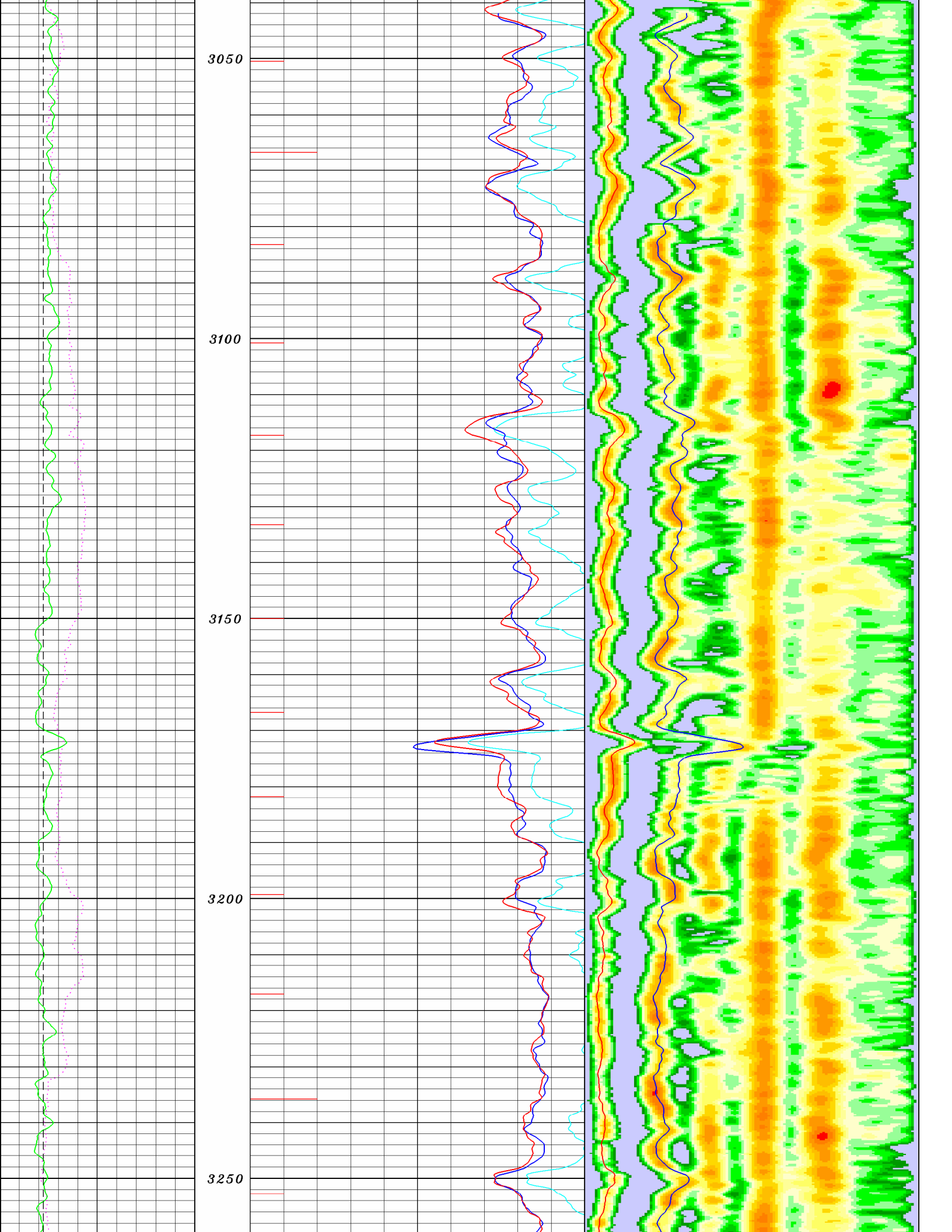


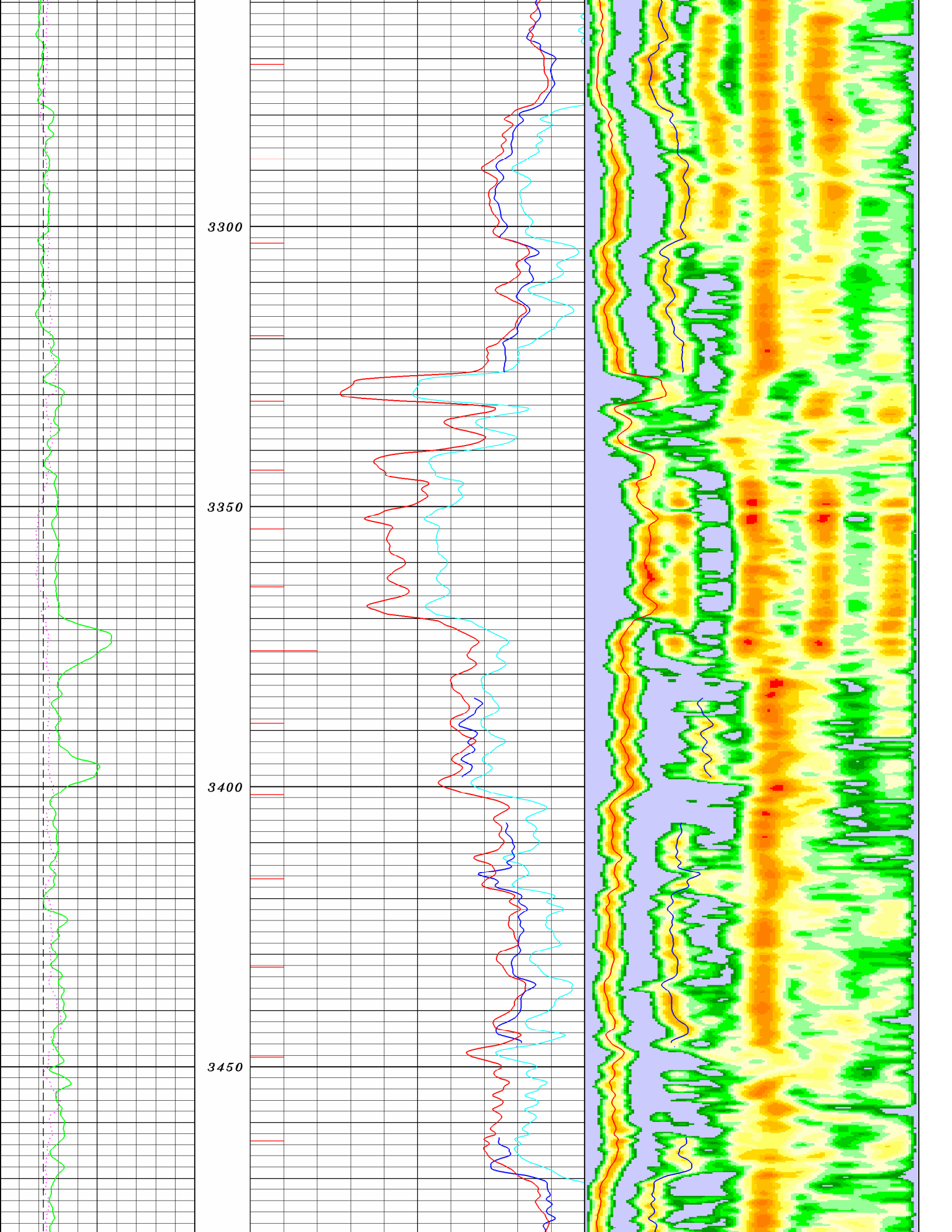


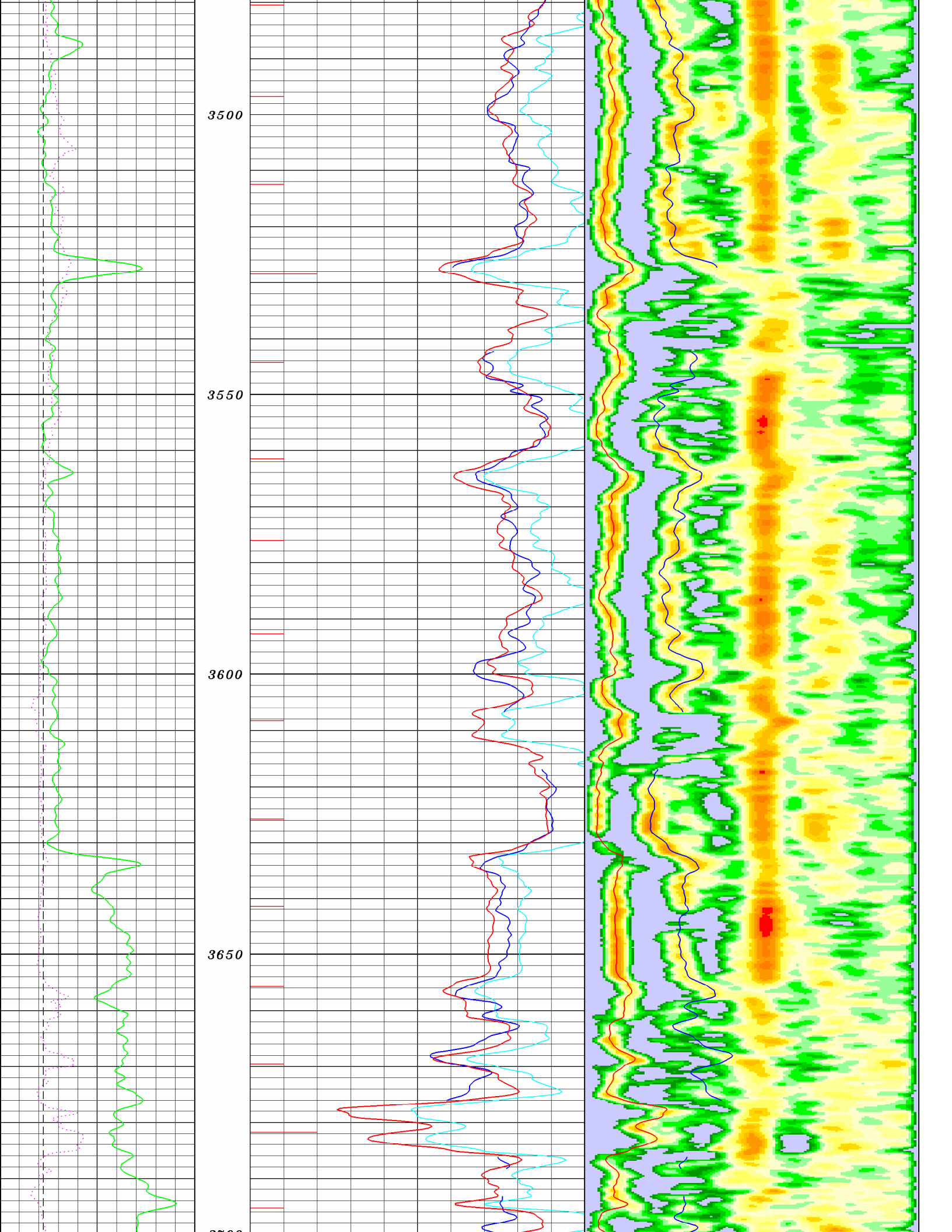


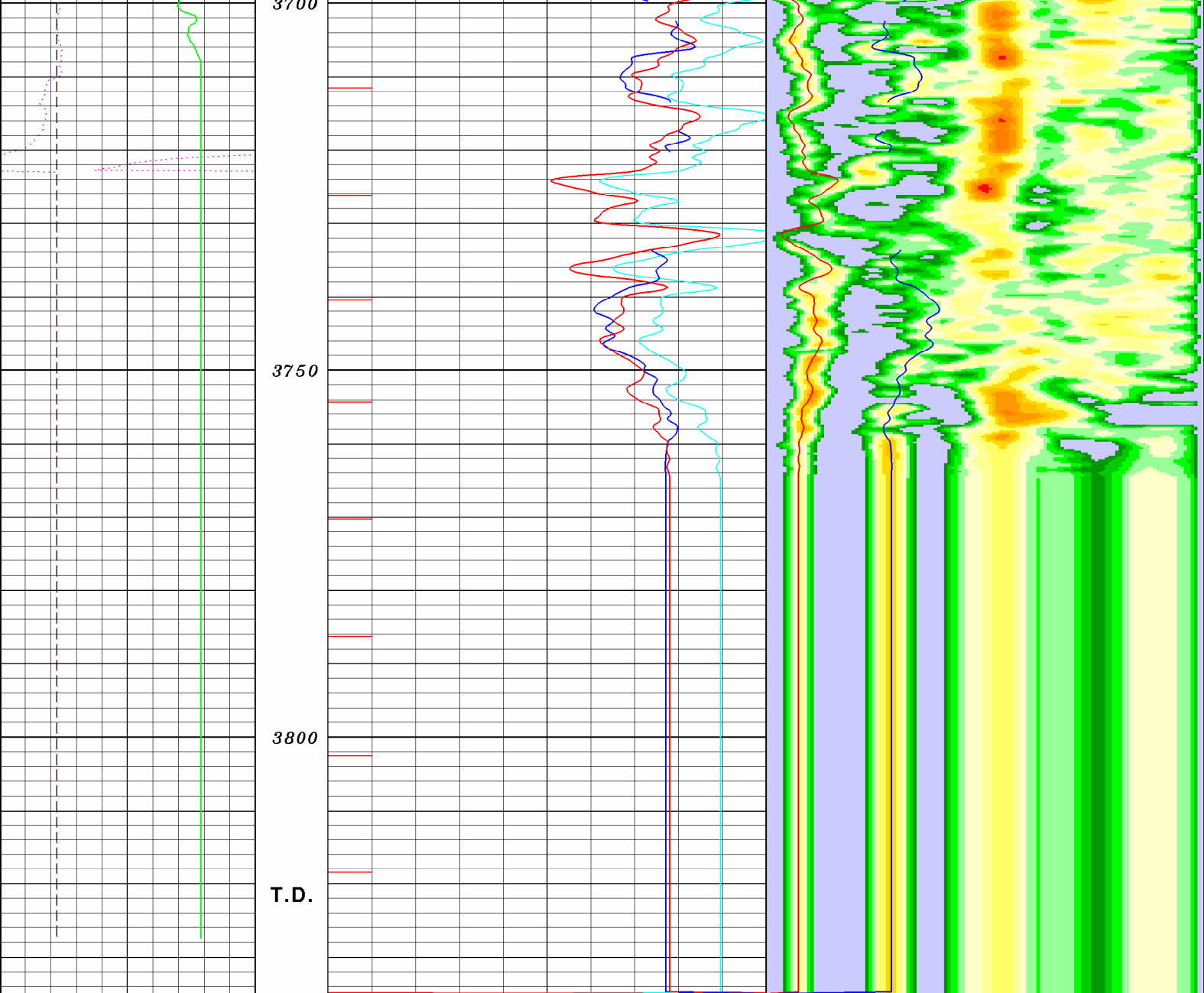












<i>BS</i>	<i>1:240 FT.</i>	<i>DTC</i>	<i>DTS</i>
<i>CALI</i>		<i>DTS</i>	<i>DTC</i>
<i>GR</i>		<i>SPHI</i>	<i>WFFW_FBS</i>
<i>GAMMA RAY BOREHOLE SIZE</i>		<i>ACOUSTIC SLOWNESS</i>	<i>SEMPBLANCE - DT COMPRESSION</i>

**HALLIBURTON**

Version No: | hc:3.0  
Data File: SW\_3A\_17\_16\_WFFW.cls  
Format File: FWST\_DIAG.spc  
Plot Time: 2007-12-31 09:57:22  
Database Time: 10:52:22

Top Depth: 500.00  
Bottom Depth: 3835.50

COMPANY CARSON LAKE BASIN PROJECT, LLC  
WELL SW3A 17-16 O  
FIELD SALT WELLS

COUNTY

CHURCHILL

STATE

NV

HALLIBURTON

FULL WAVE SONIC  
SEMBLANCE  
PROCESSED LOG  
5"=100'