



**ARRAY INDUCTION  
DENSITY / NEUTRON  
GAMMA RAY LOG**

COMPANY: DYNAMIC EXPLORATION PARTNERS, LLC  
 WELL: RICHARD WELL #1  
 FIELD: GRAND CHENIERE  
 PROVINCE/COUNTY: CAMERON  
 COUNTRY/STATE: USALLOUISIANA  
 LOCATION: S 68 D 52'54"E 15,160' FROM NGS. MON.  
**YARD IN SEC 53**  
**FINAL PRINT**

SEC	TWP	RGE	Other Services
53	5S	5W	SWC
API Number	17023230470000		
Permit Number	241560		
Permanent Datum G.L., Elevation 5 feet			
Log Measured From K.B. @ 18 FEET above Permanent Datum			
Drilling Measured From K.B.			
Date	22-JUL-2010		
Run Number	ONE		
Depth Driller	10800.00	feet	
Depth Logger	10794.00	feet	
First Reading	10792.00	feet	
Last Reading	2526.00	feet	
Casing Driller	2531.00	feet	
Casing Logger	2526.00	feet	
Bit Size	8.500	inches	
Hole Fluid Type	WATER BASED		
Density / Viscosity	10.50 lb/USg	40.00 CP	
PH / Fluid Loss	10.60	5.80 ml/30Min	
Sample Source	PIT		
Rm @ Measured Temp	1.30 @ 80.0	ohm-m	
Rmf @ Measured Temp	1.10 @ 81.0	ohm-m	
Rmc @ Measured Temp	1.60 @ 81.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.52 @205.0	ohm-m	
Time Since Circulation	8 HOURS		
Max Recorded Temp	205.00	deg F	
Equipment Name	OPEN HOLE		
Equipment / Base	13060	ROSENB	
Recorded By	T. POMEDLI		
Witnessed By	MELTON RAINBOLT / JONES		
RG	GUICHARD #5		

Elevations:  
 KB 23.00  
 DF 22.00  
 GL 5.00

BOREHOLE RECORD		Last Edited: 22-JUL-2010 05:03
Bit Size inches	Depth From feet	Depth To feet
8.500	2531.00	10800.00

CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
	9.625	0.00	2531.00
			Weight pounds/ft
			36.00

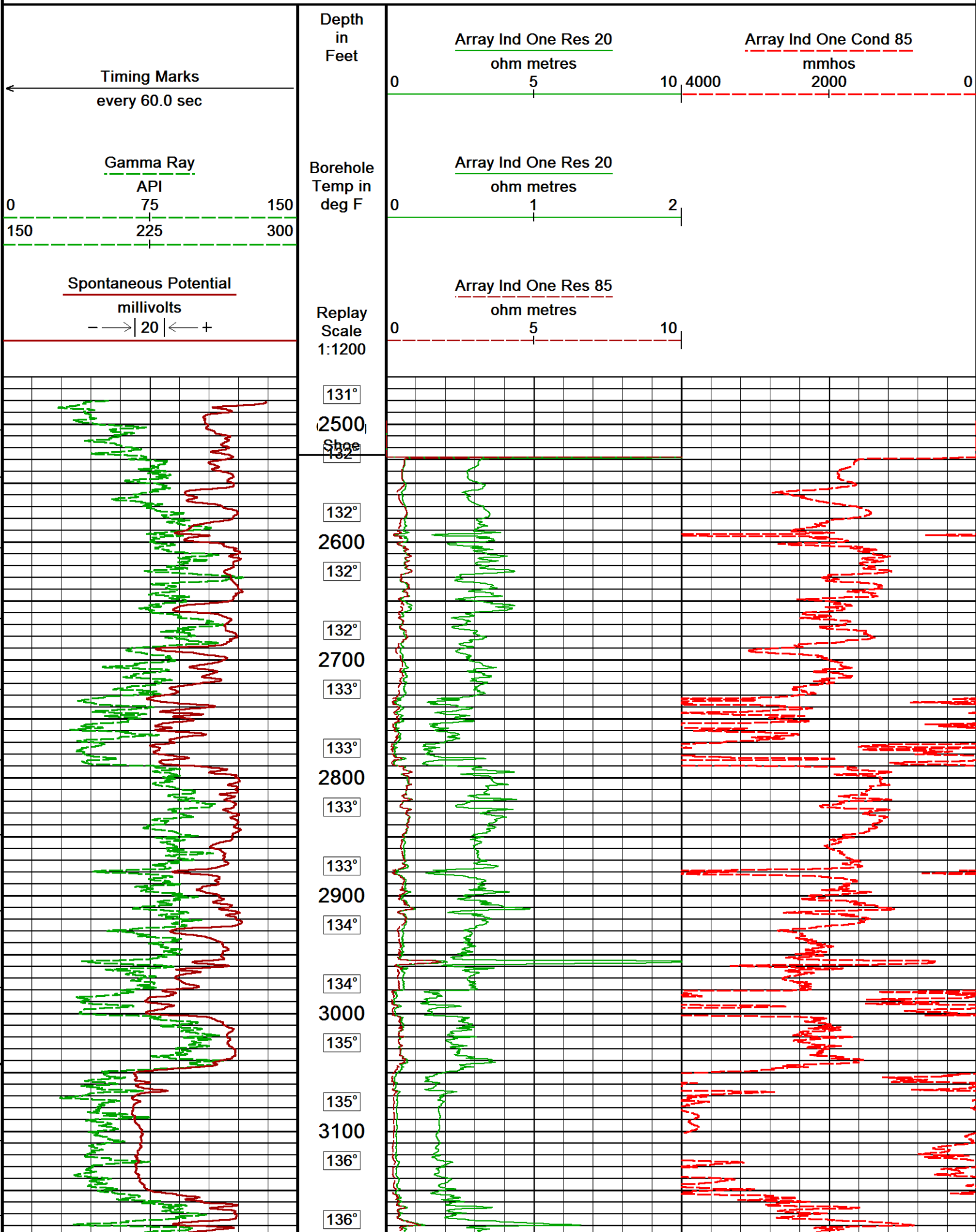
**REMARKS**

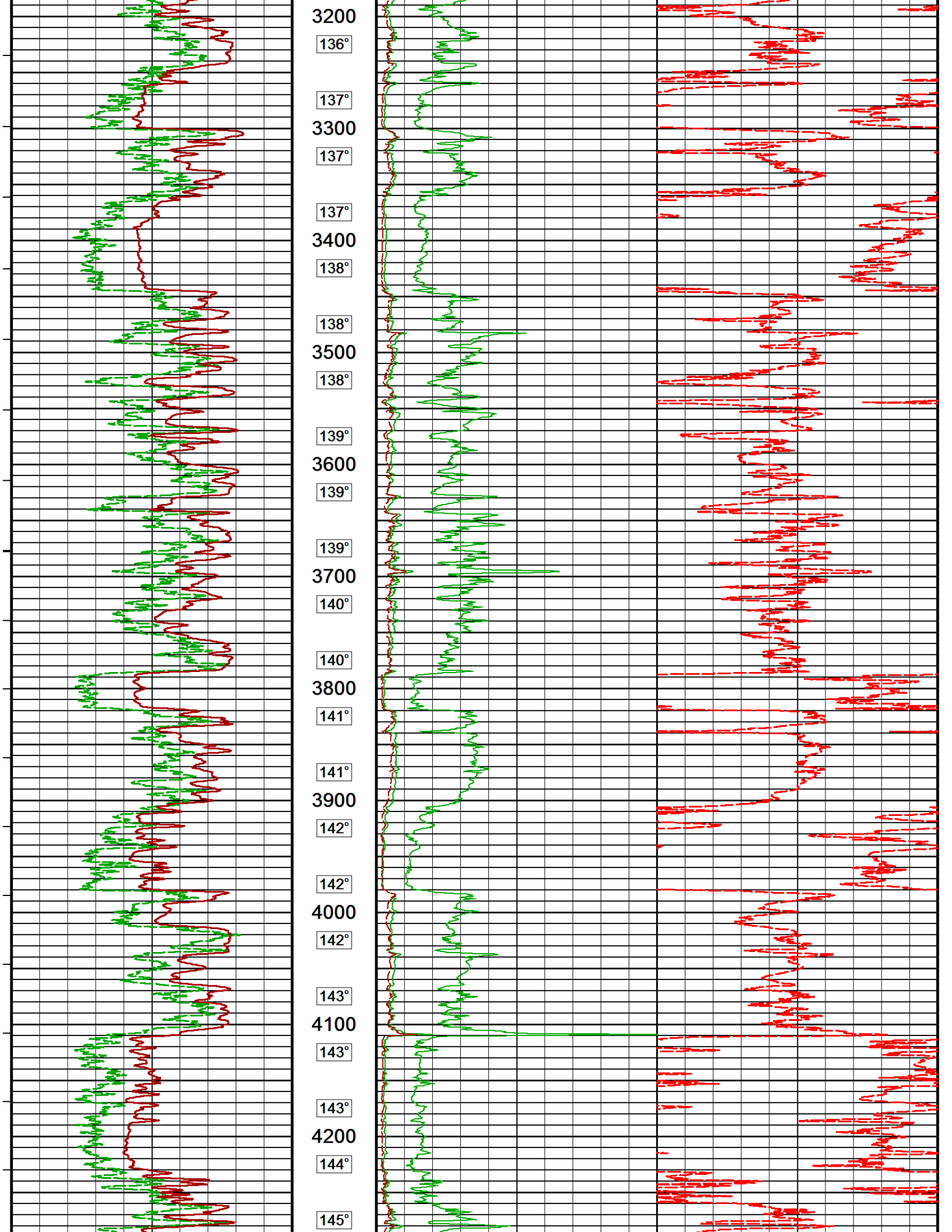
MAI/MFE/MPD/MDN/MCG RAN IN COMBINATION.  
 DENSITY POROSITY ASSUMES SANDSTONE MATRIX (2.65 g/cc)  
 POROSITY TERMINATED AT 8500 FEET AT CUSTOMER REQUEST.  
 LAT:29 44'32.8"N LONG:92 50'57.6"W  
 X=1,518,901.00' Y=394,379.00 (NAD-27)  
 X=2,799,699.45' Y=455,090.00' (NAD-83)

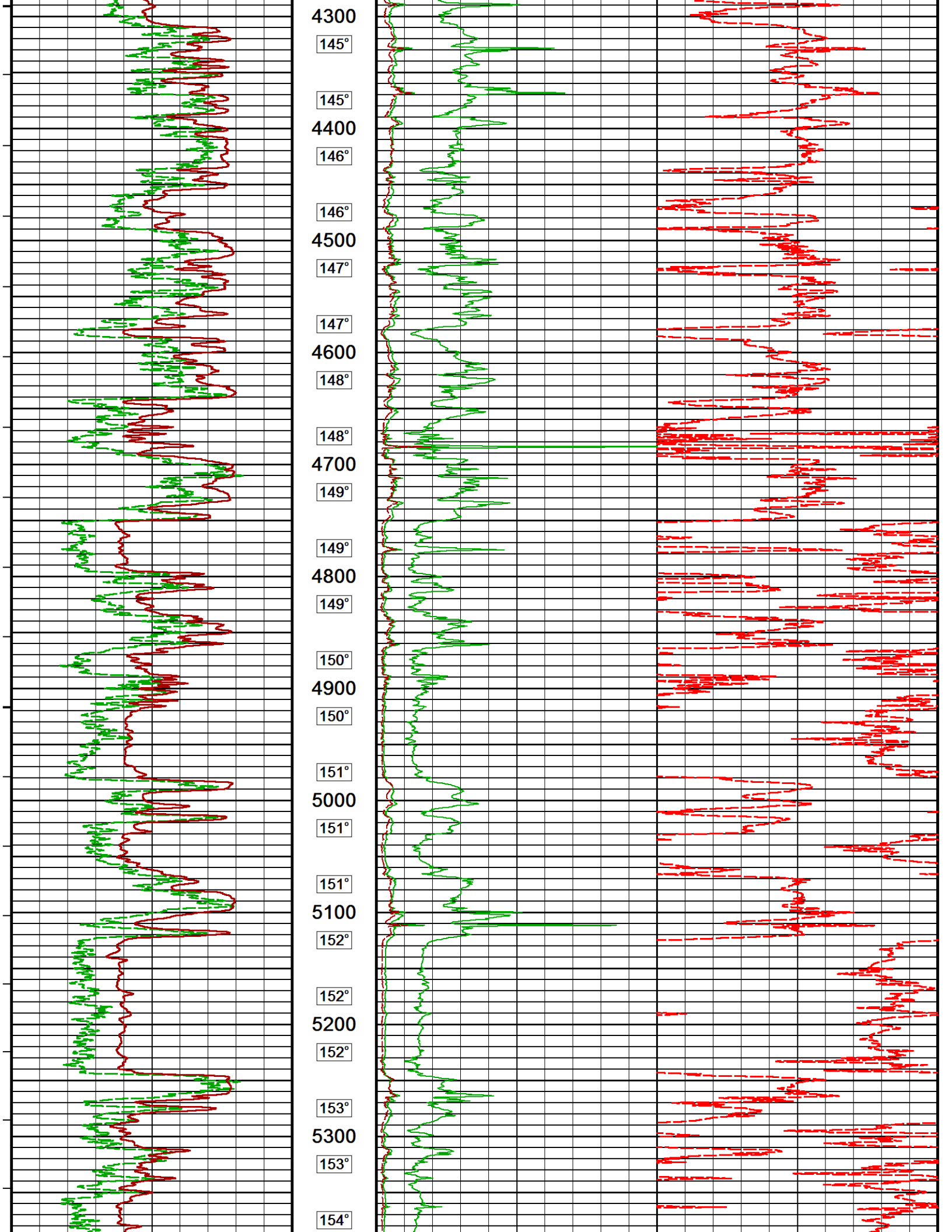
CREW:J. QUINTANILLA, J. TANK

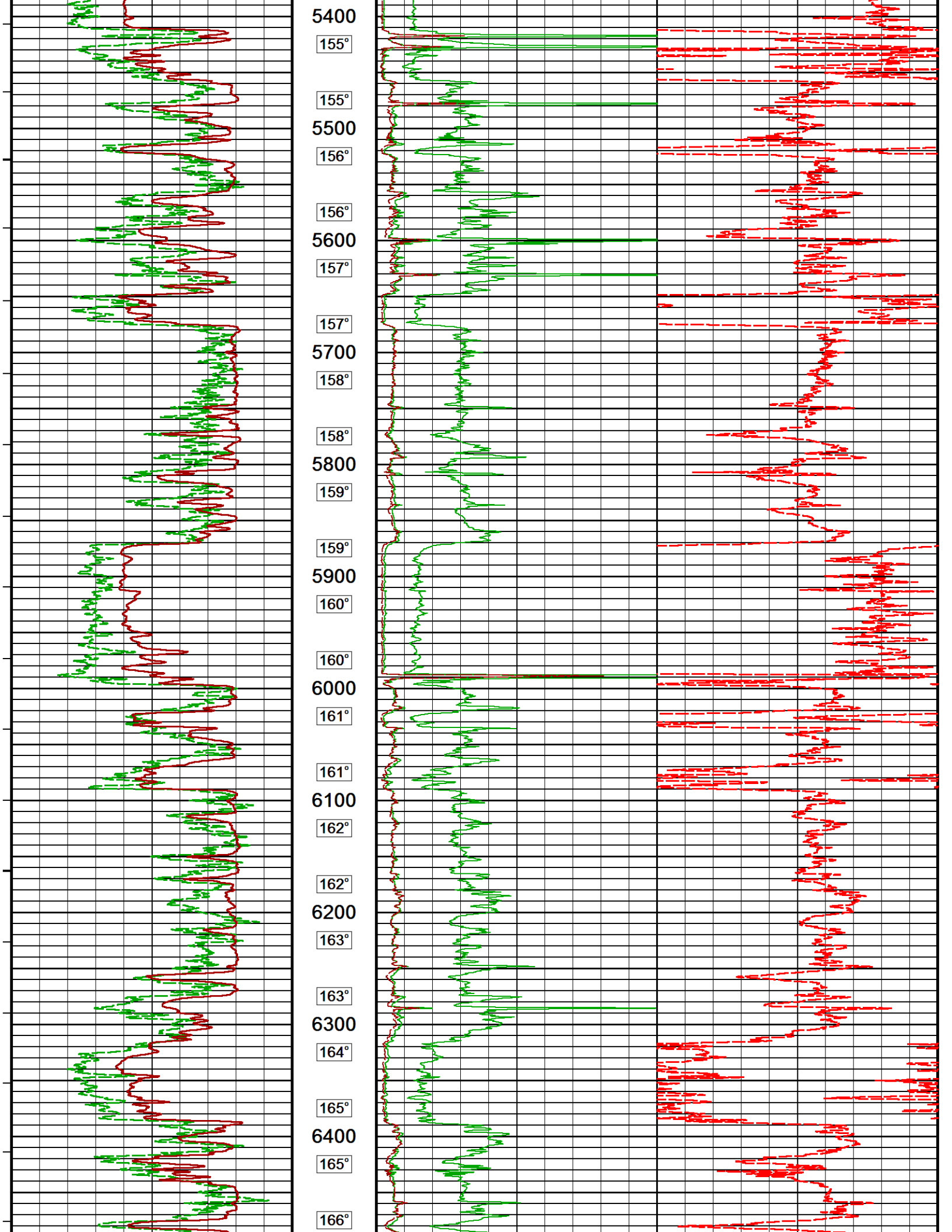
THANK YOU FOR CHOOSING WEATHERFORD WIRELINE!!

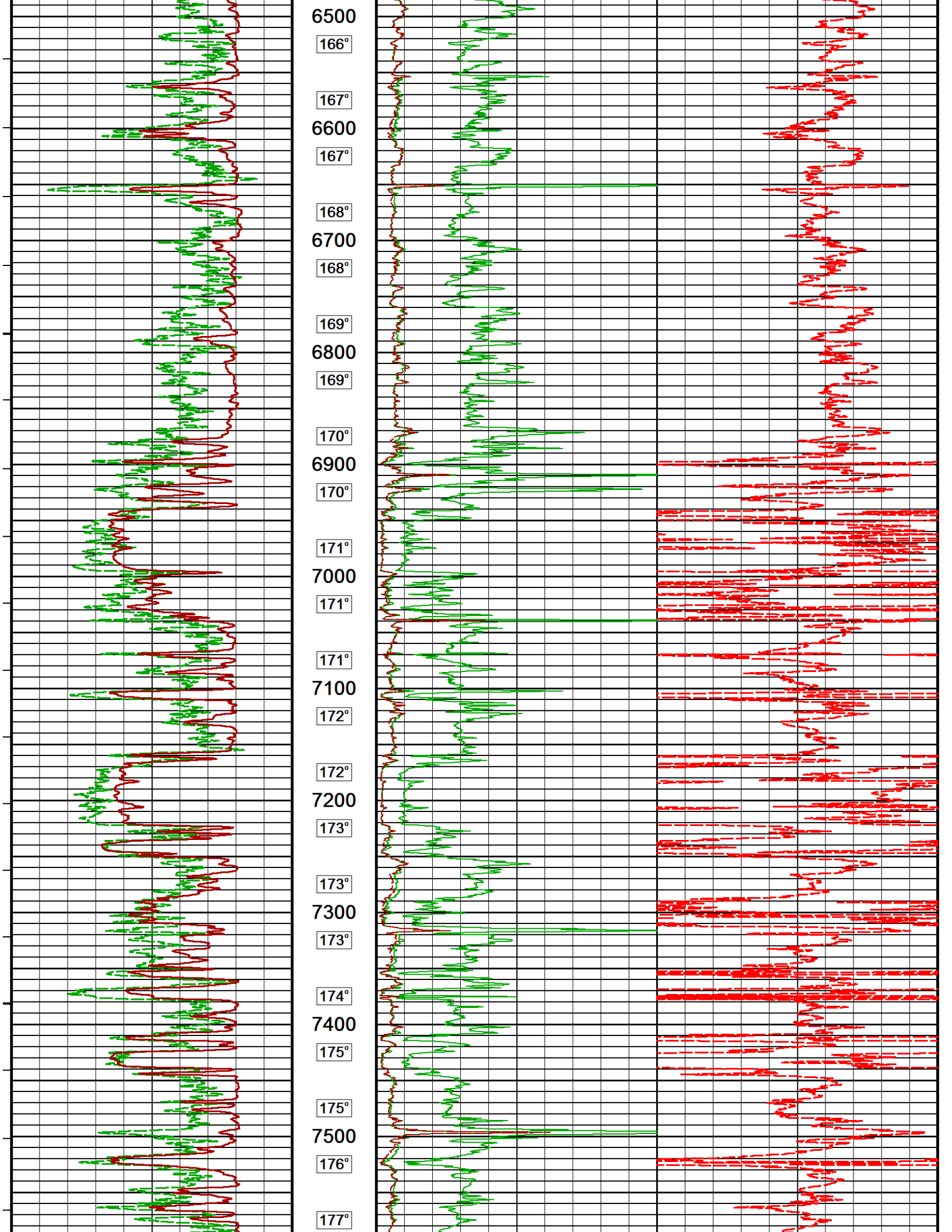
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 in our price schedule.

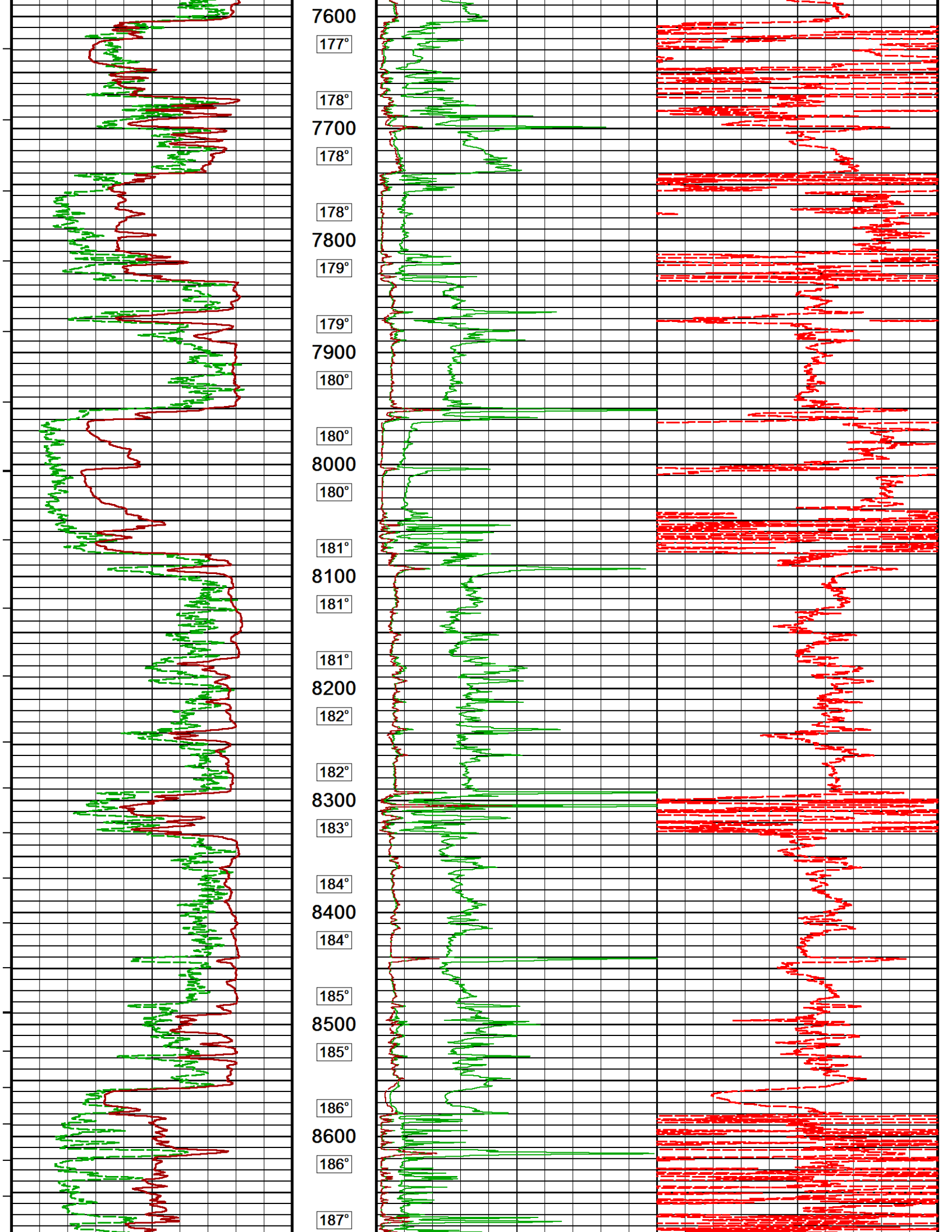


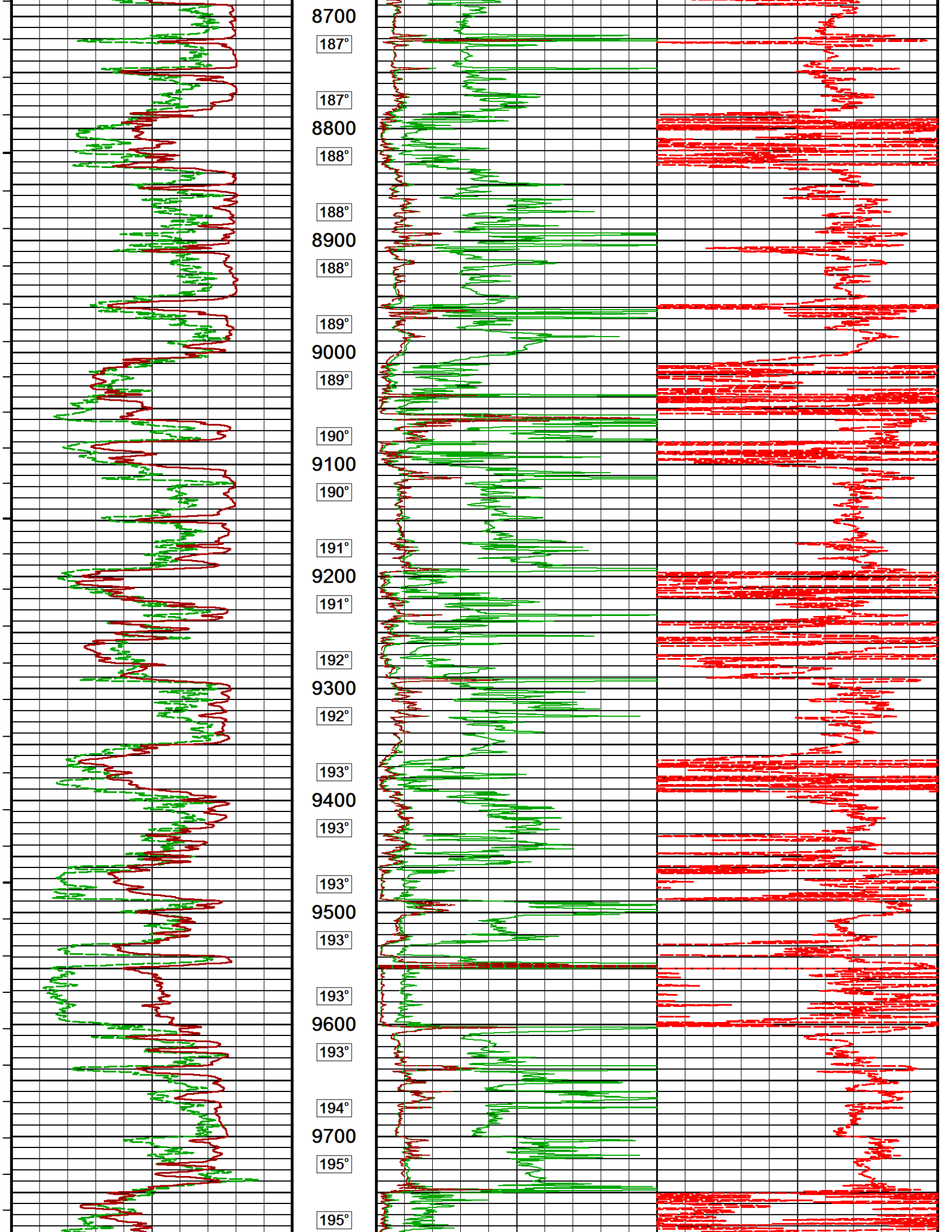


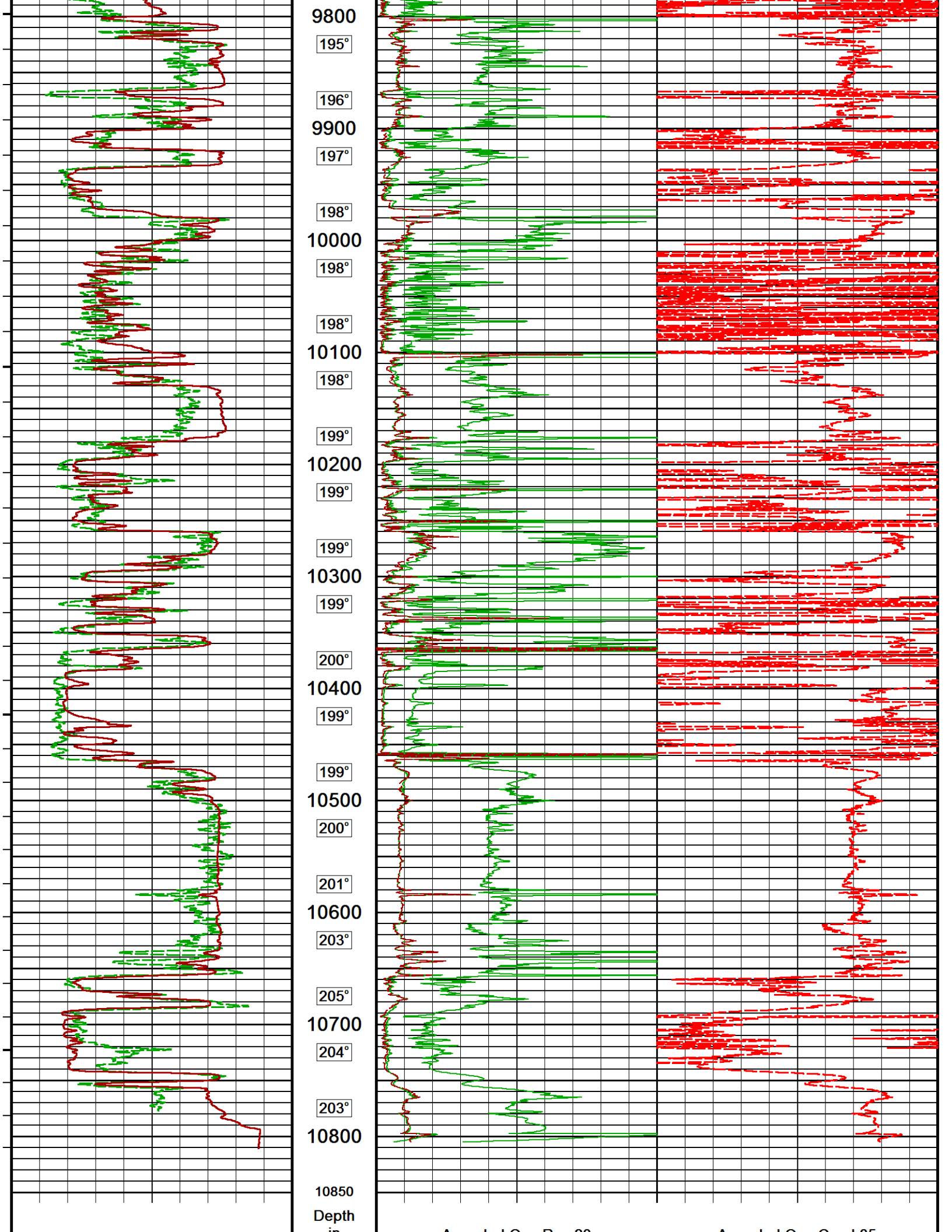


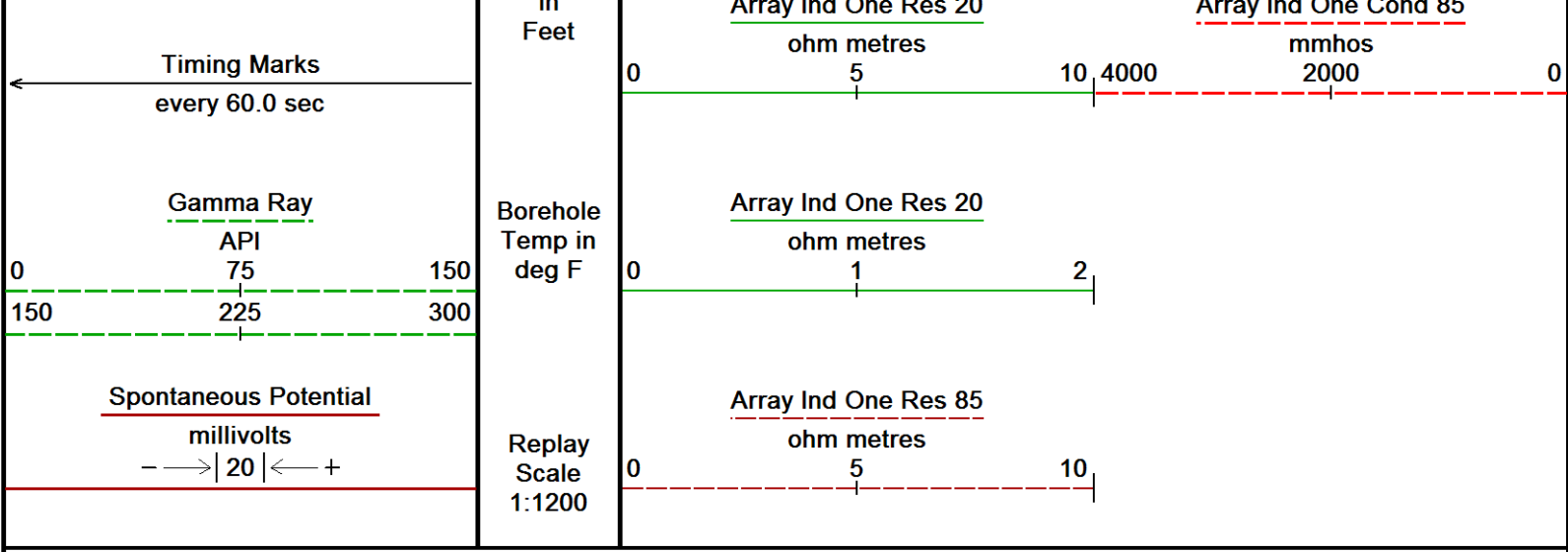






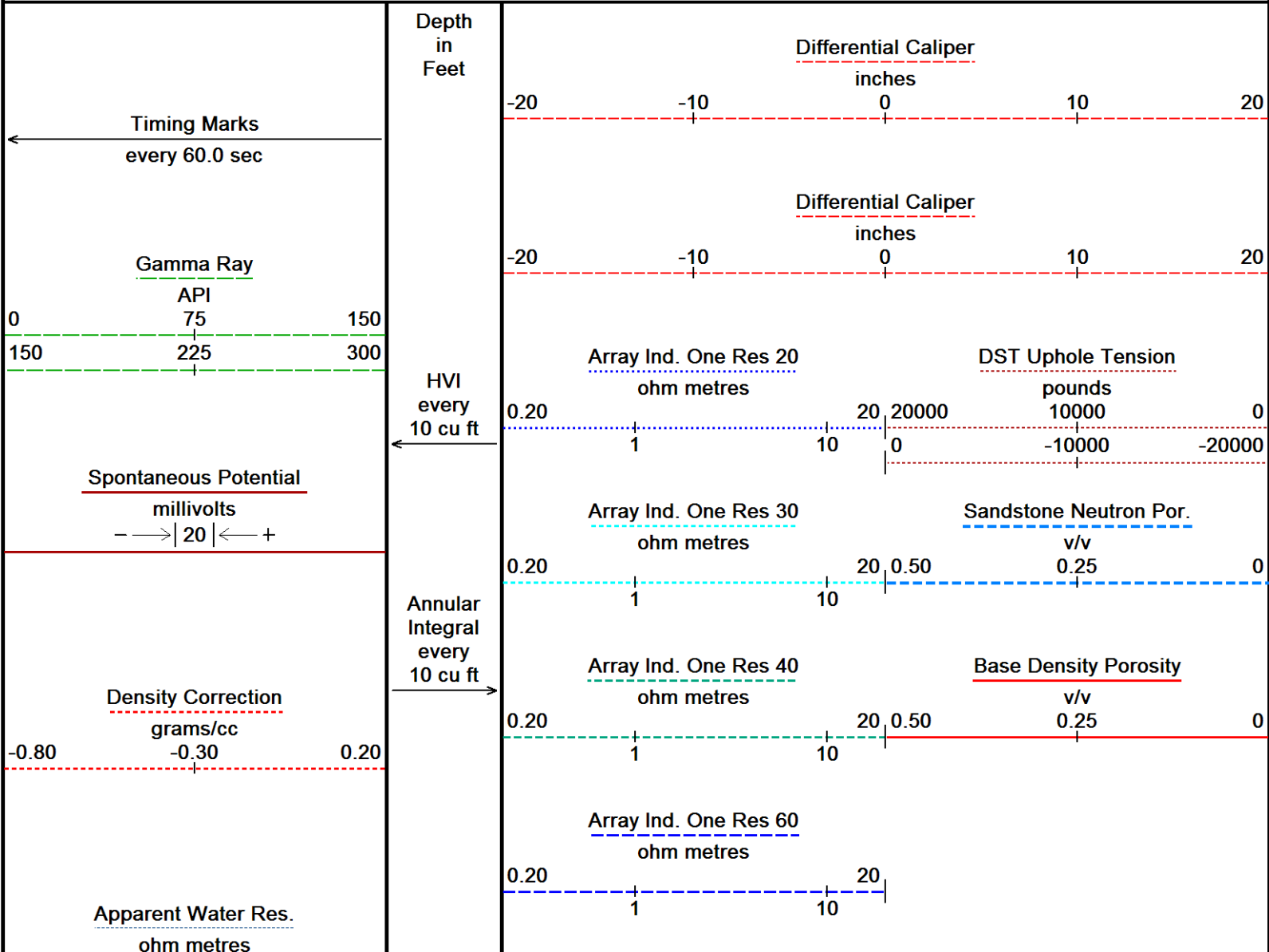


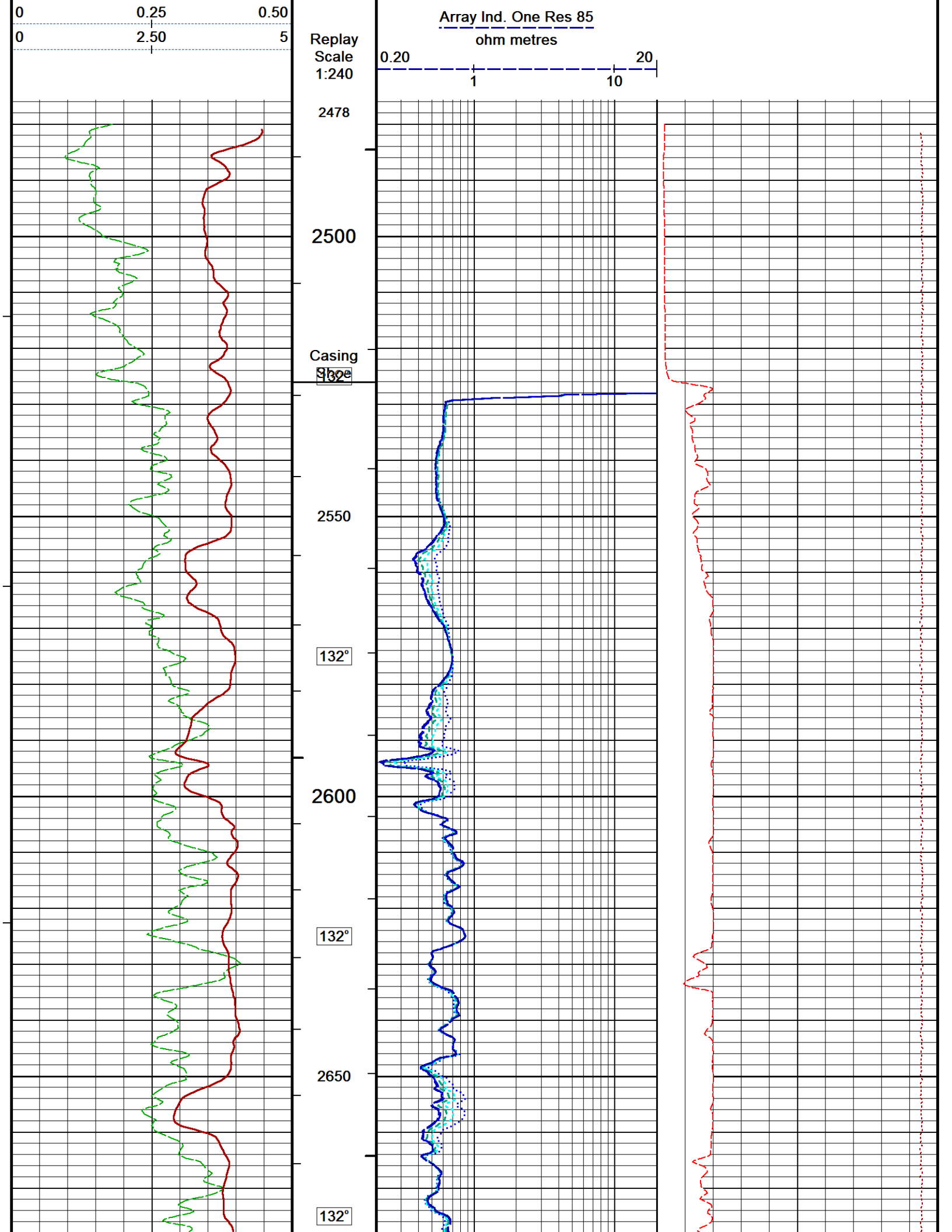


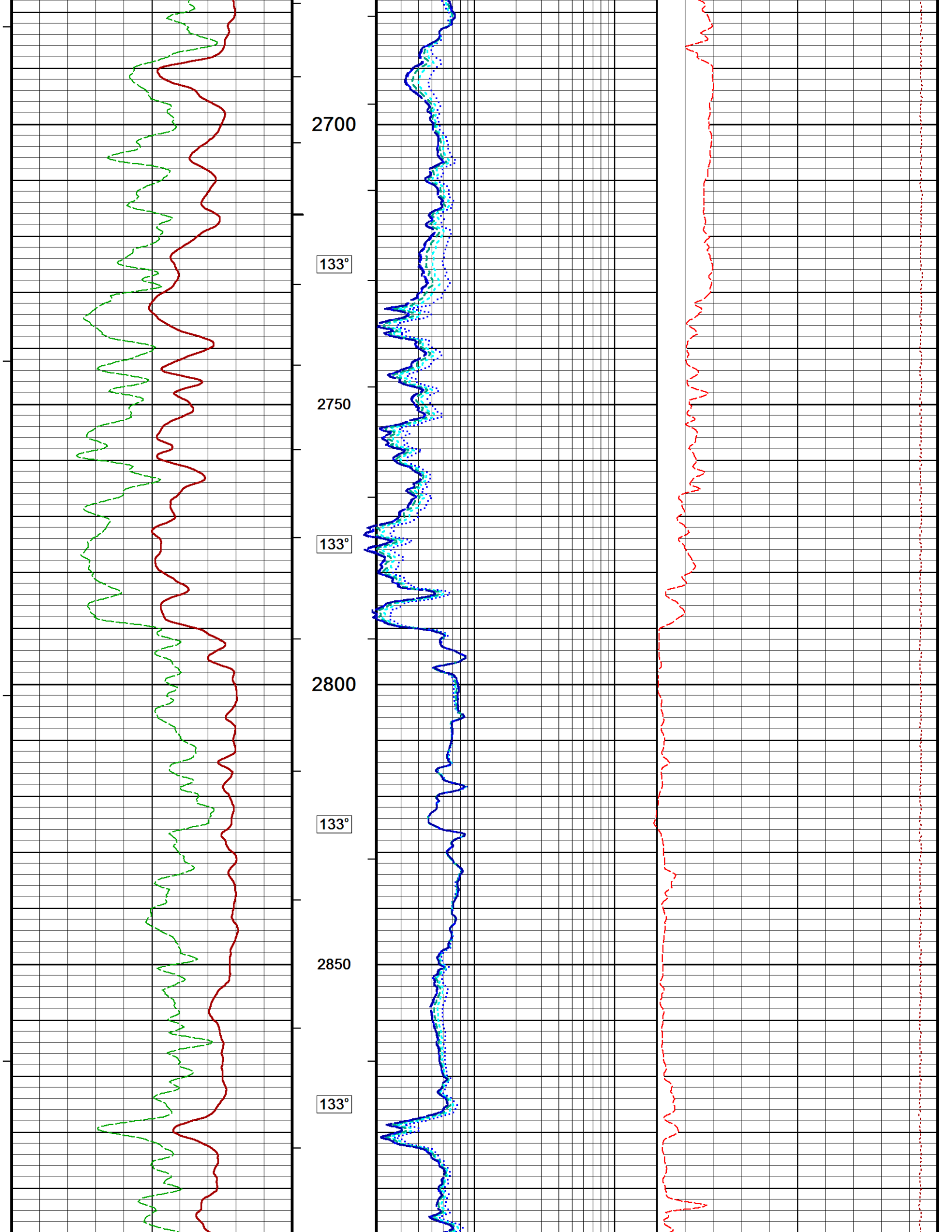


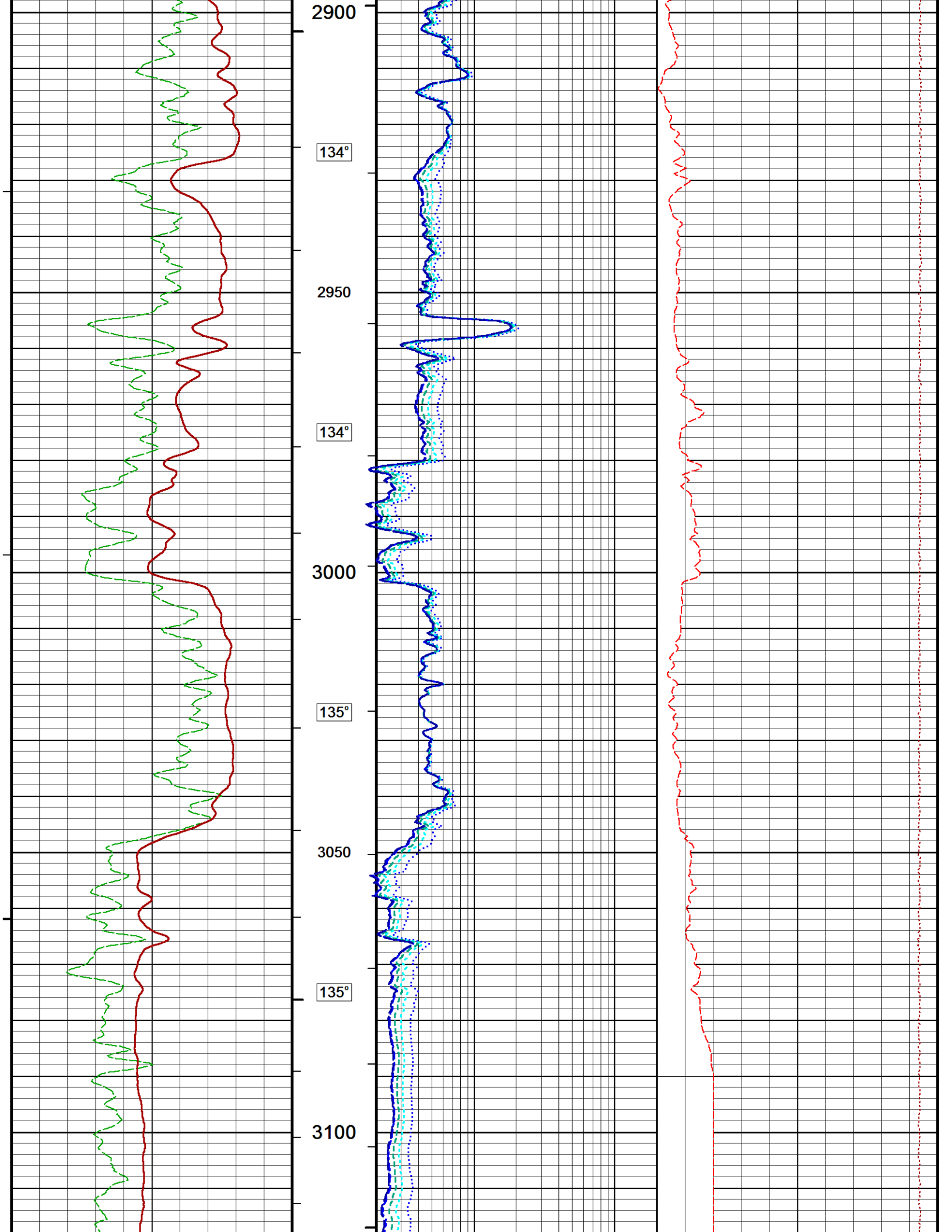
**MAIN PASS 1:240**

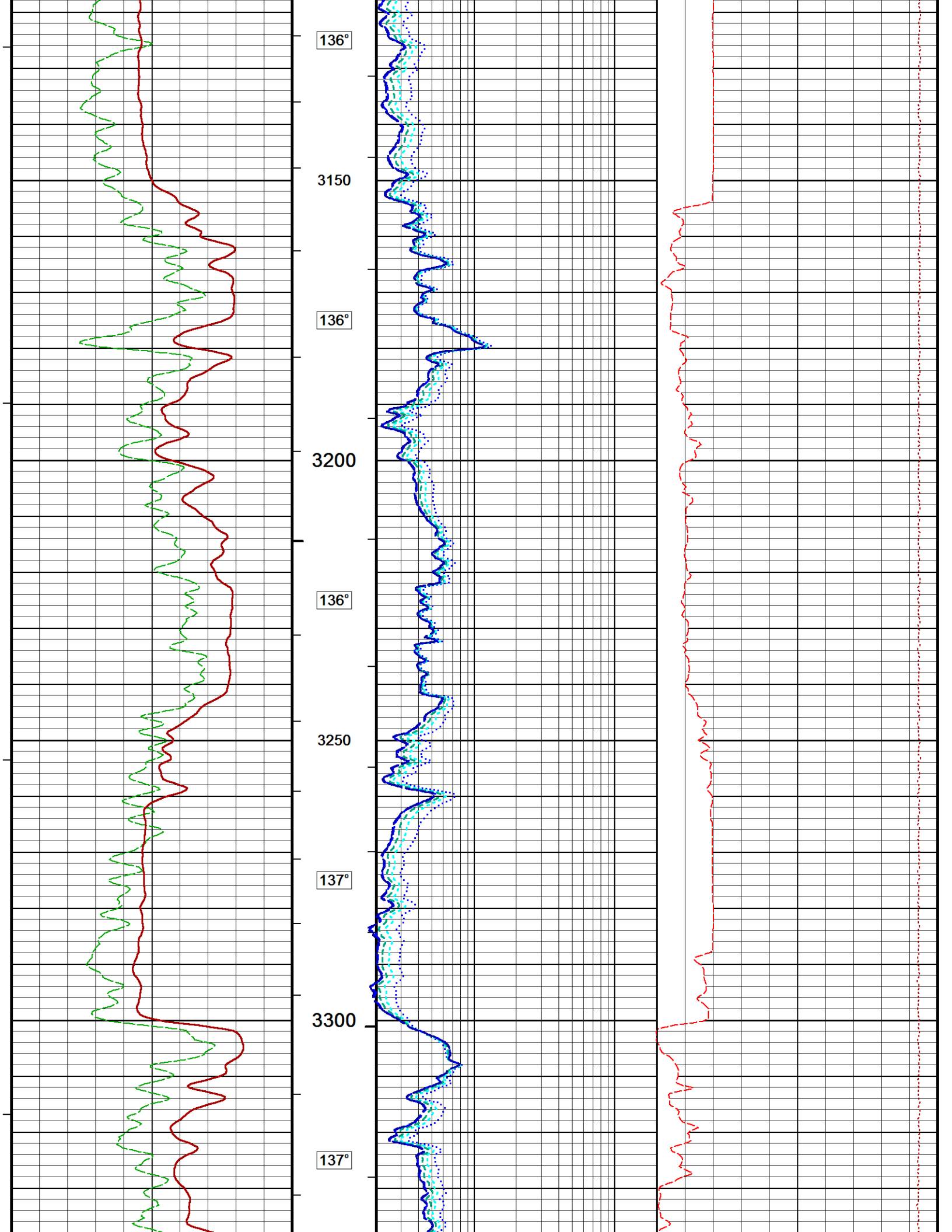
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 Plotted on 22-JUL-2010 10:33  
 Filename: C:\DOCUME~1\cassidha\LOCALS~1\Temp\Weatherford PreView\0\Triple2.dta  
 Recorded on 22-JUL-2010 03:10  
 System Versions: Logged with 10.08.1568 Plotted with 8.01.0091

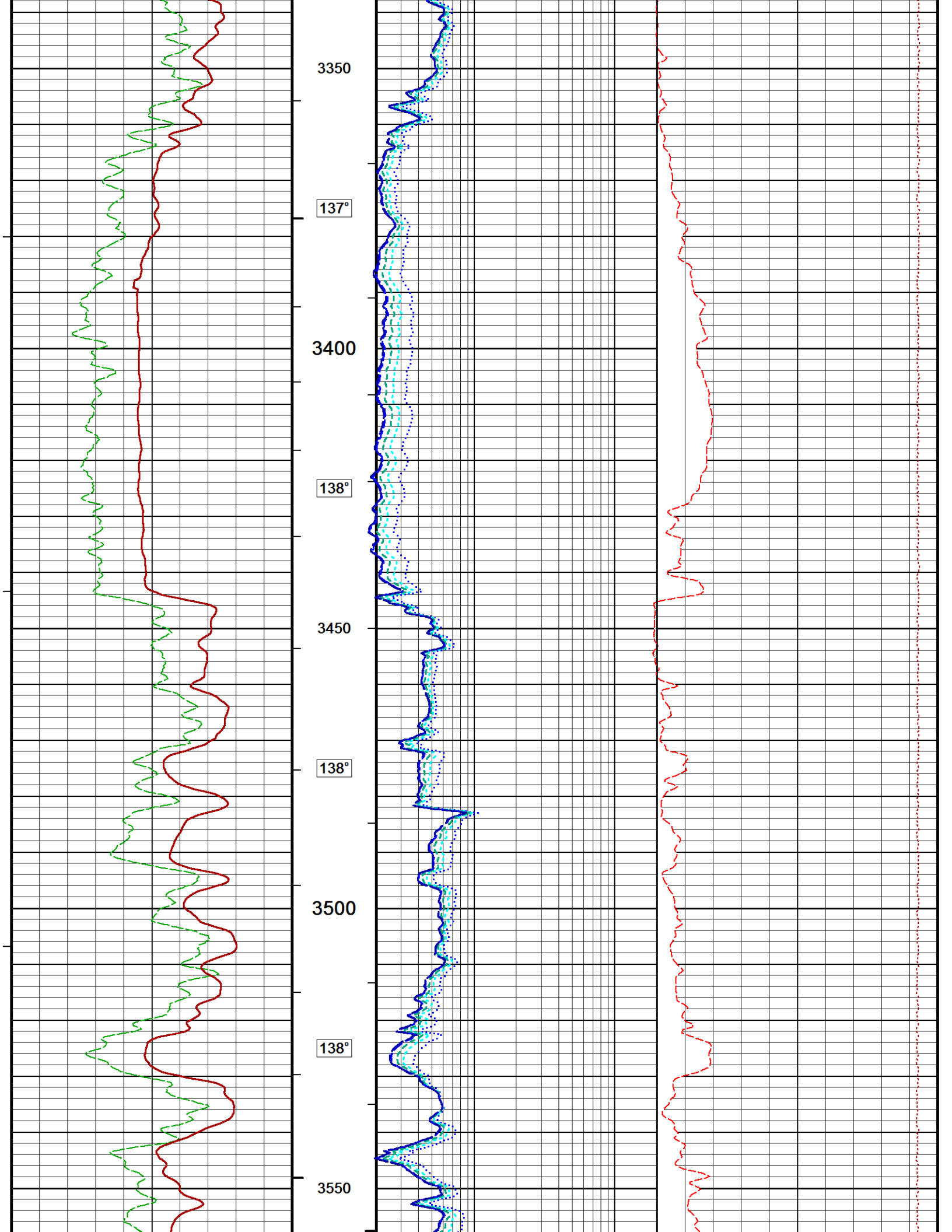


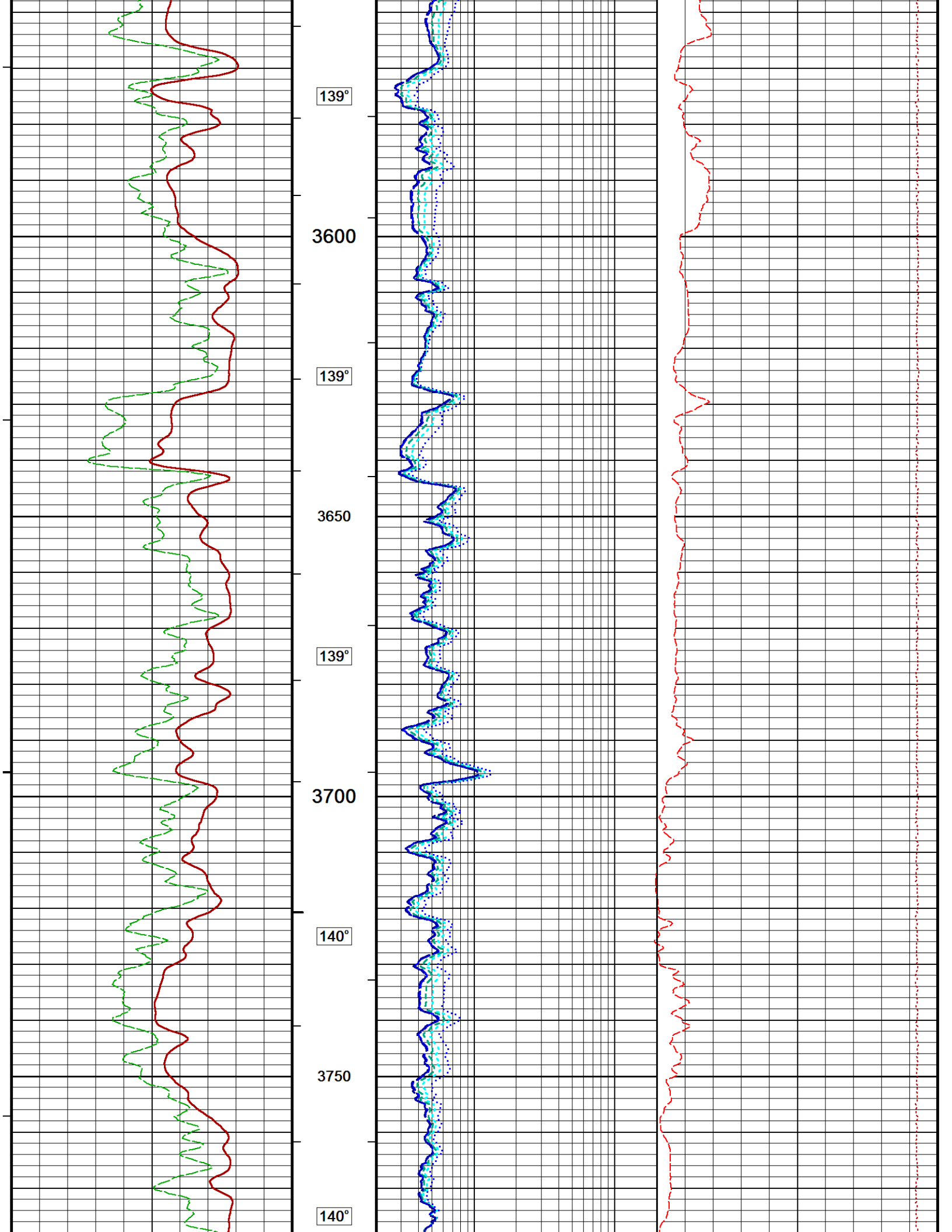


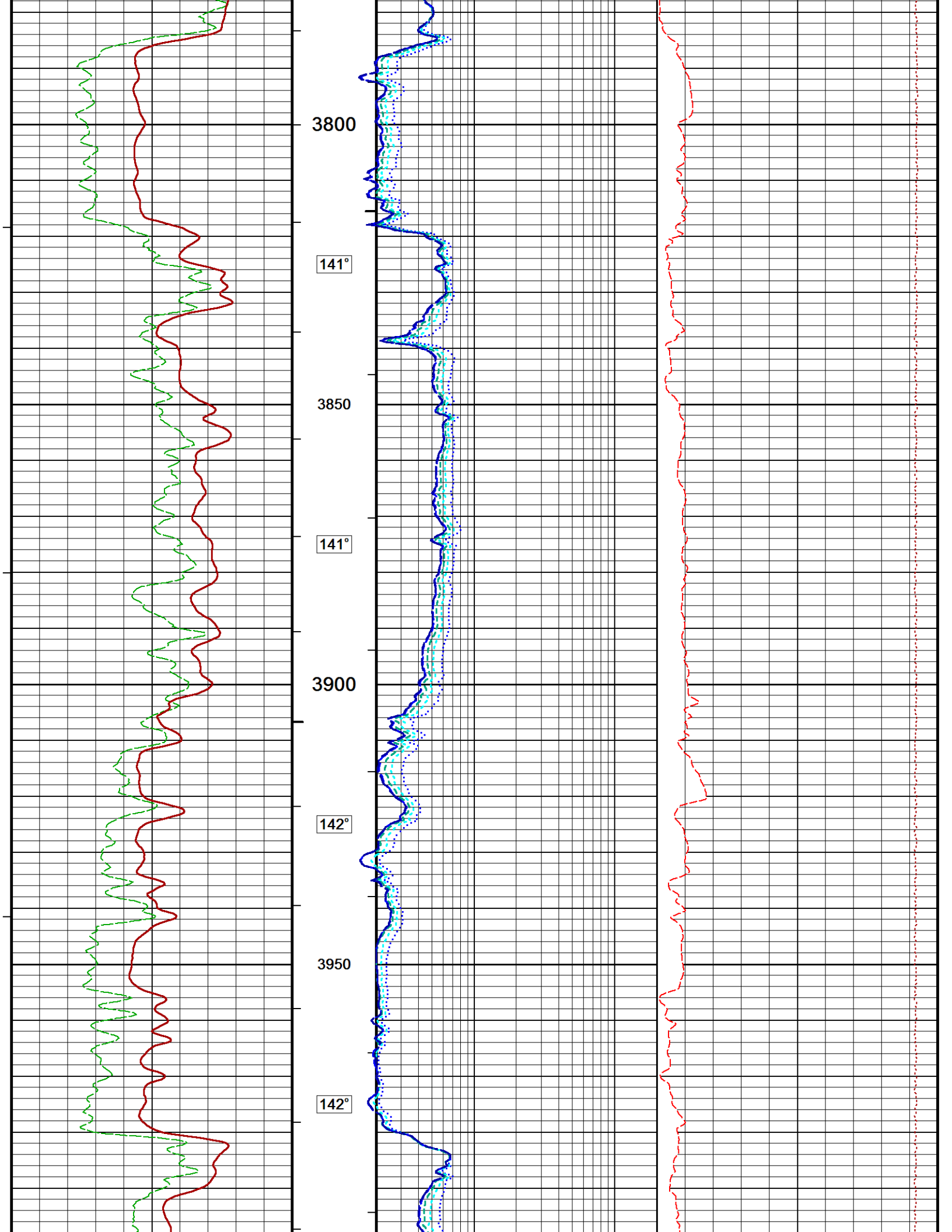


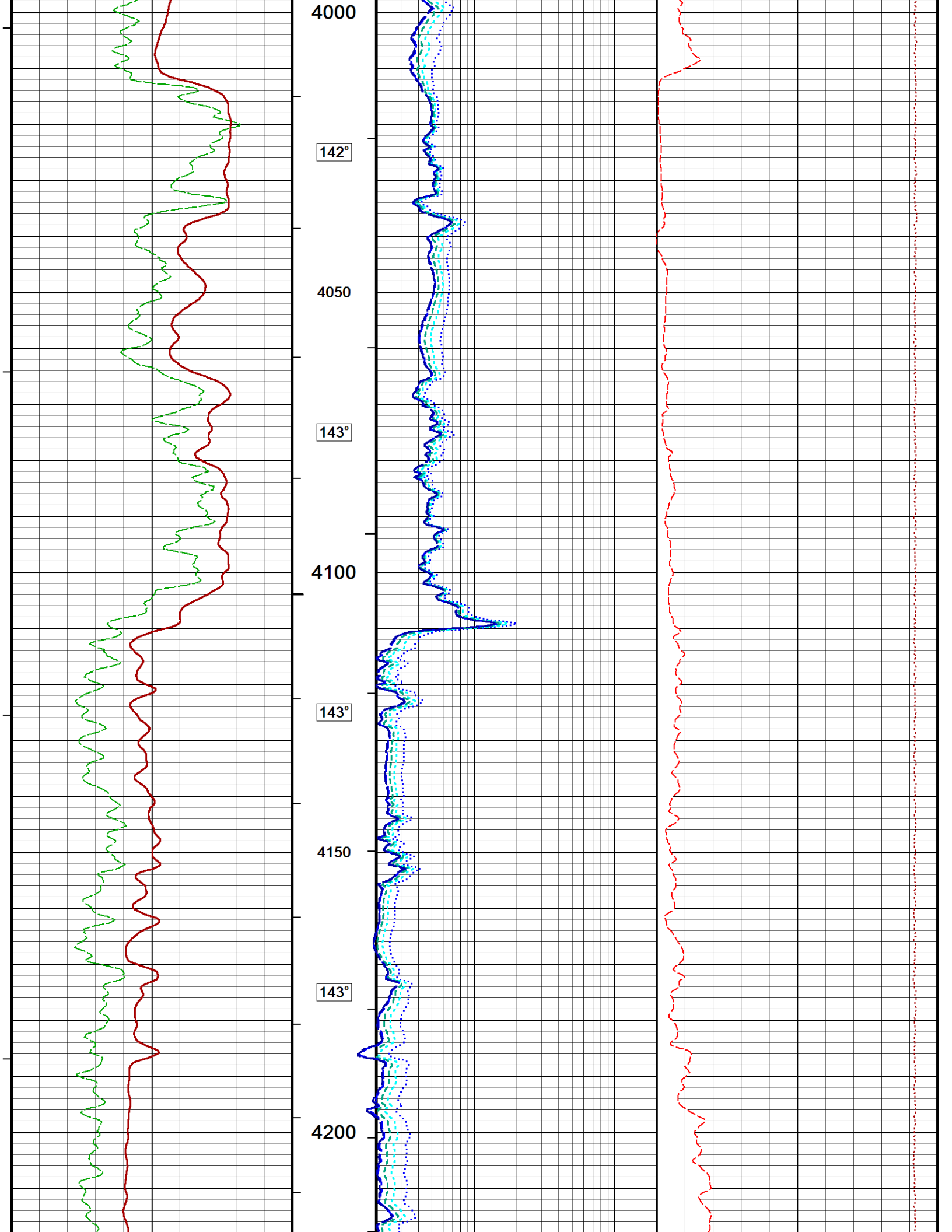


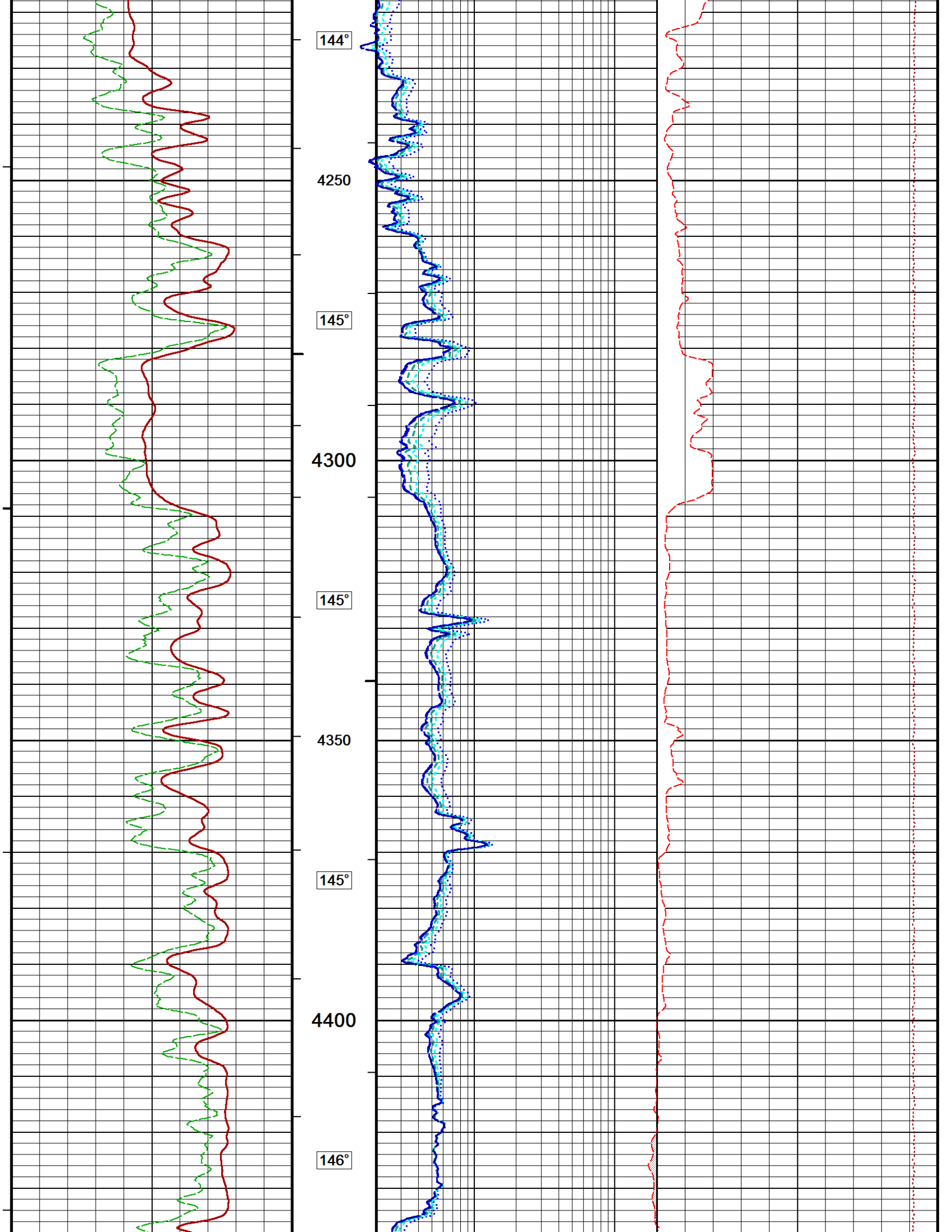


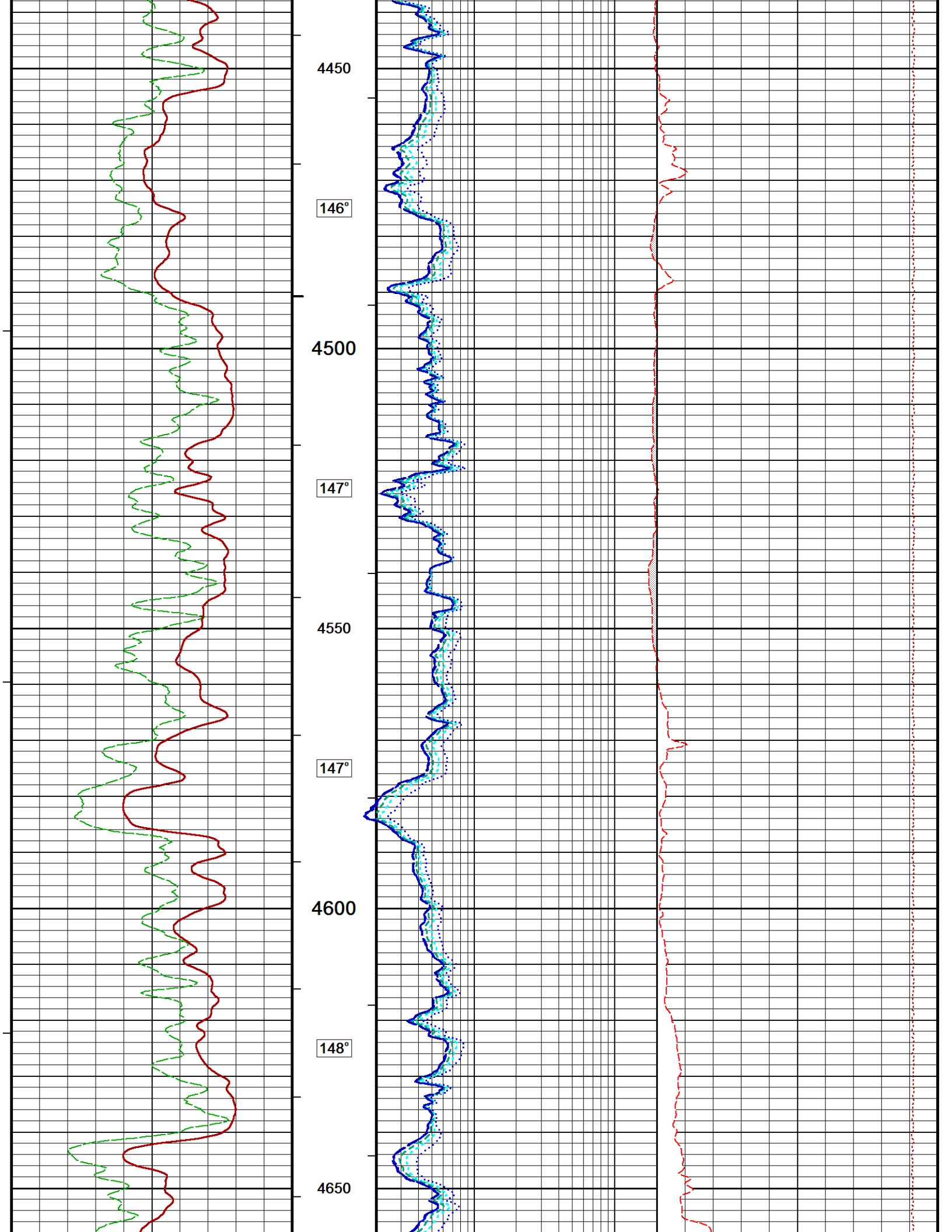


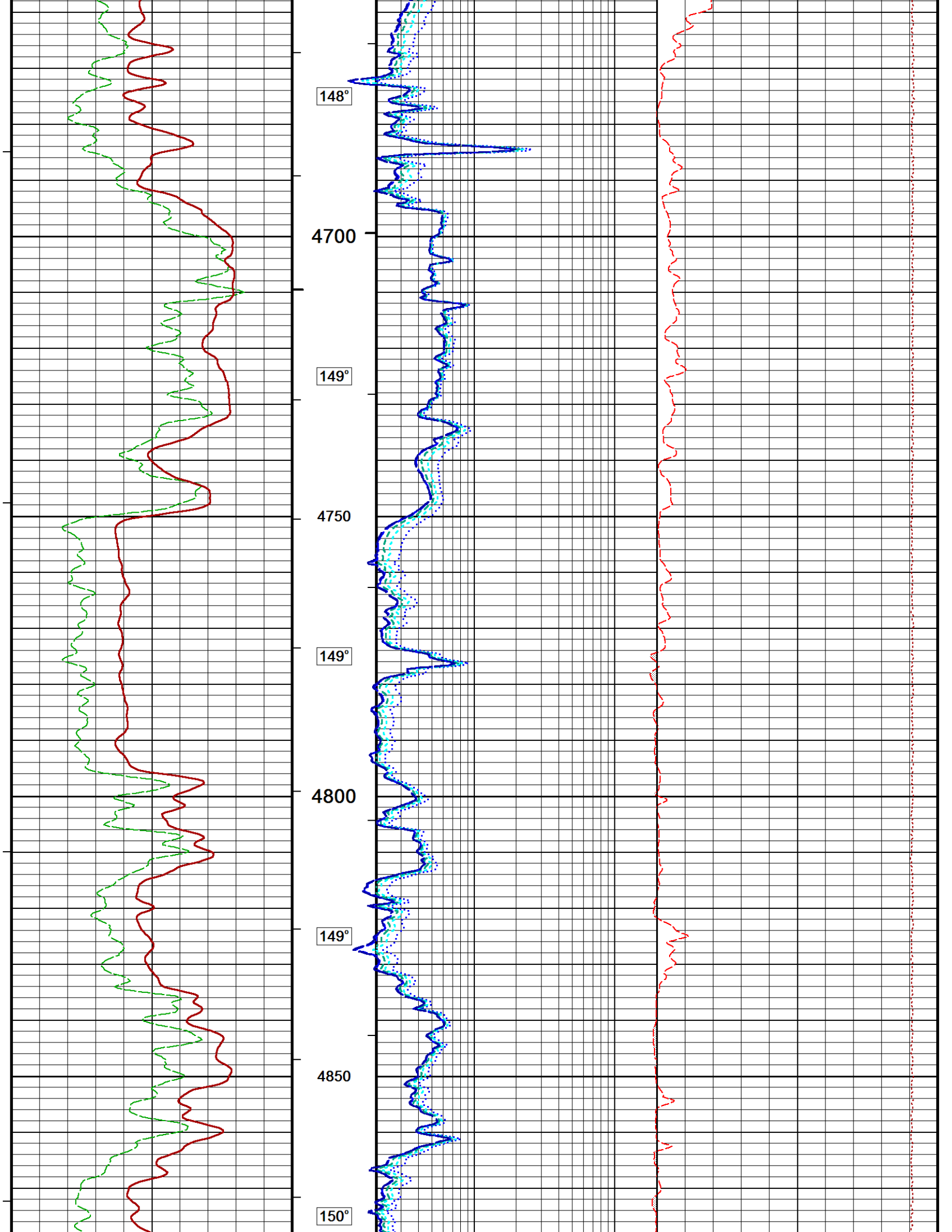


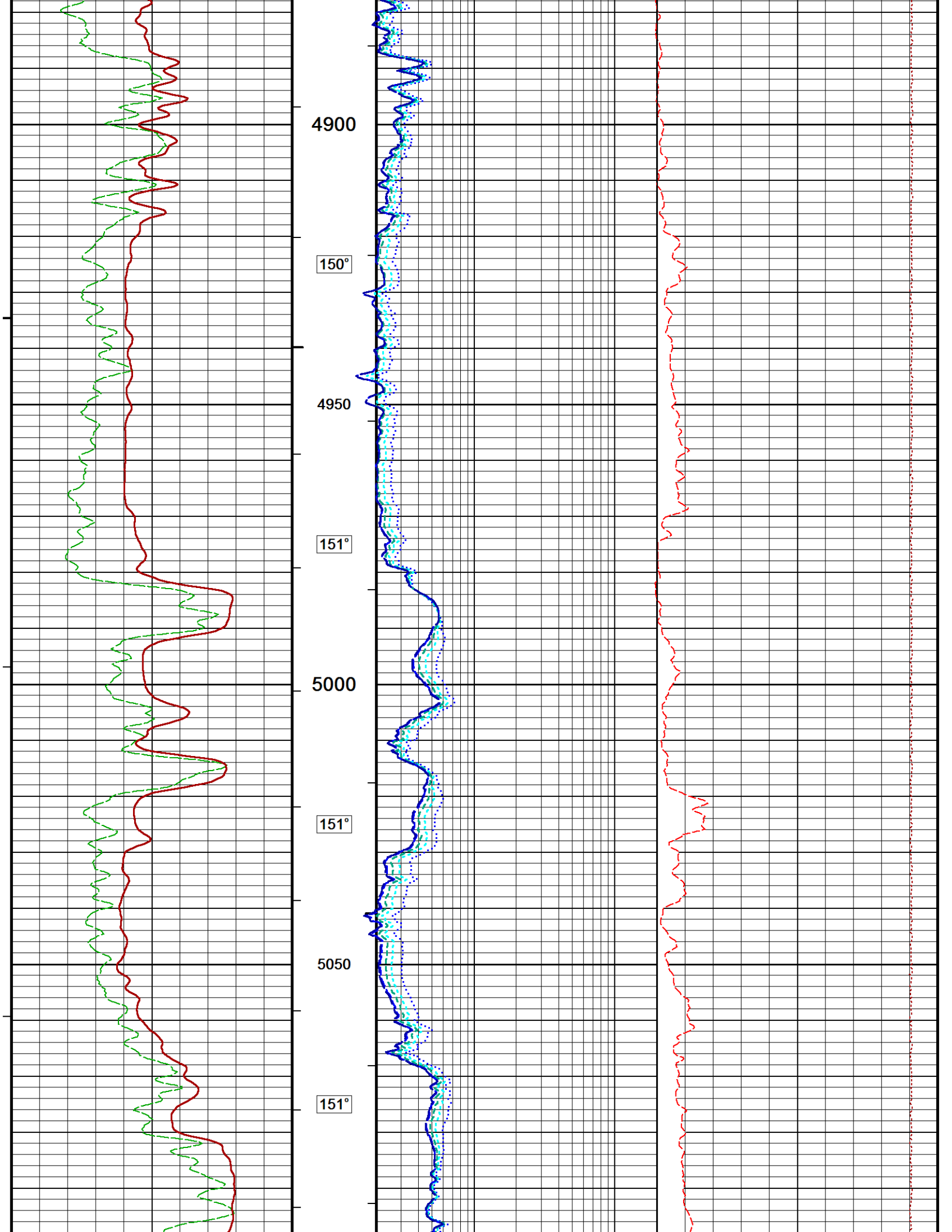


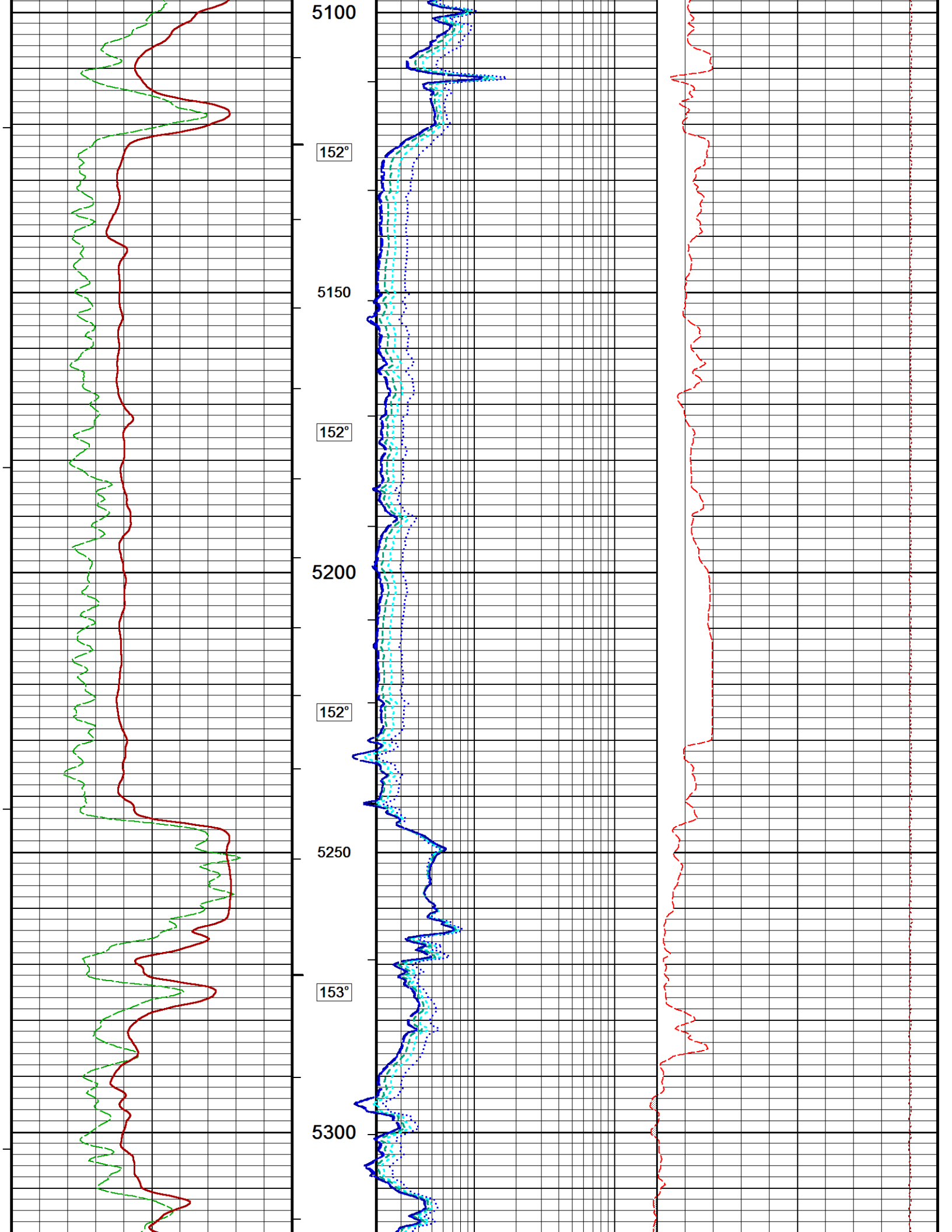


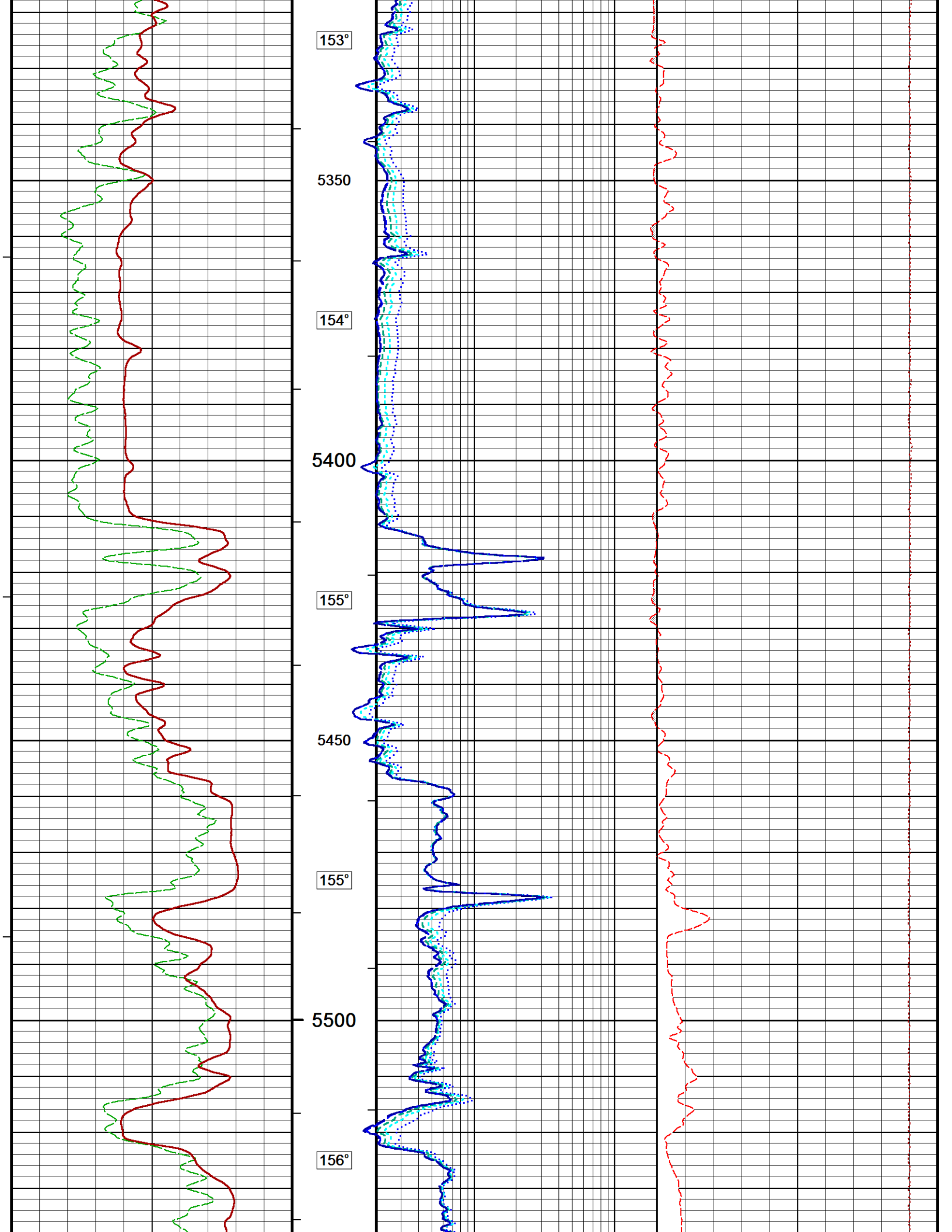


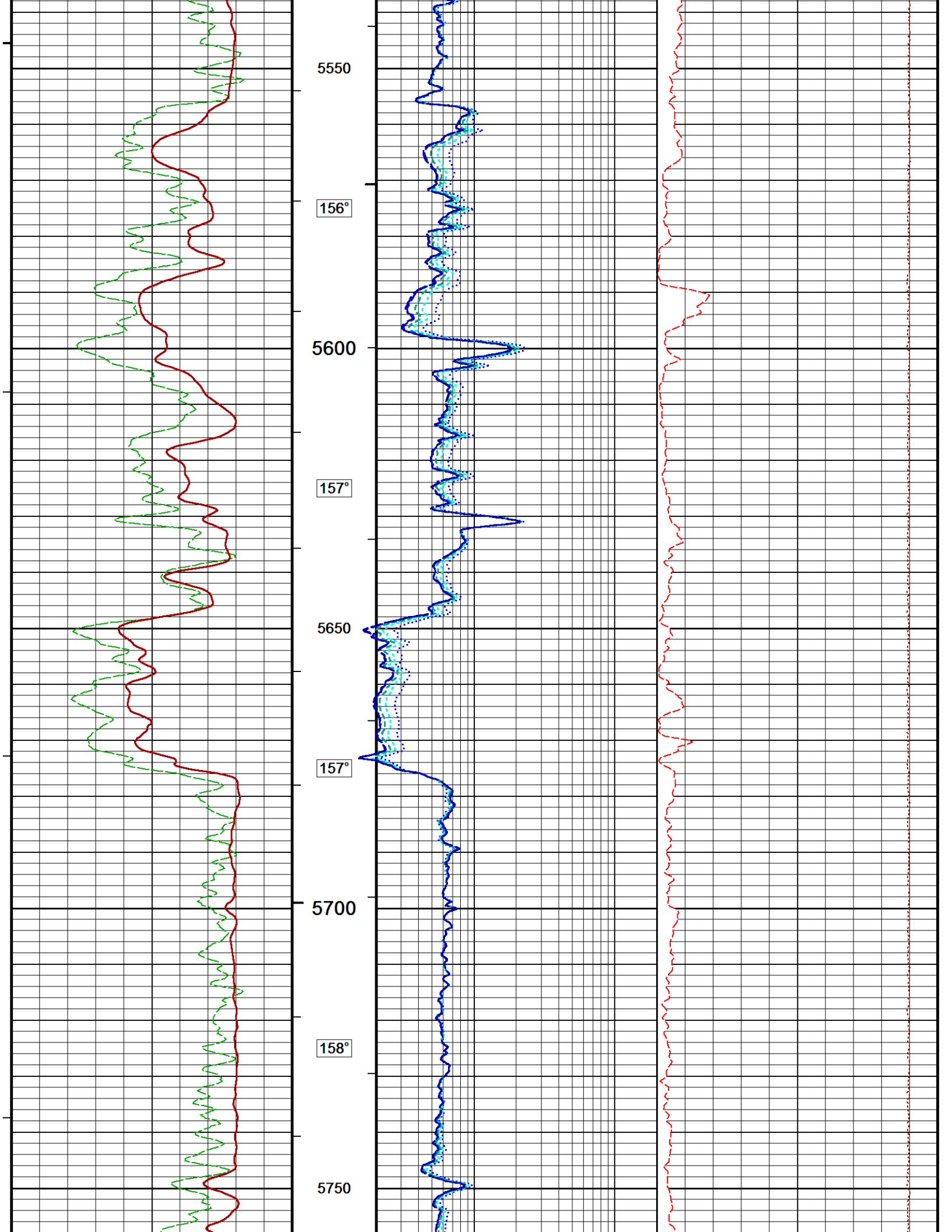


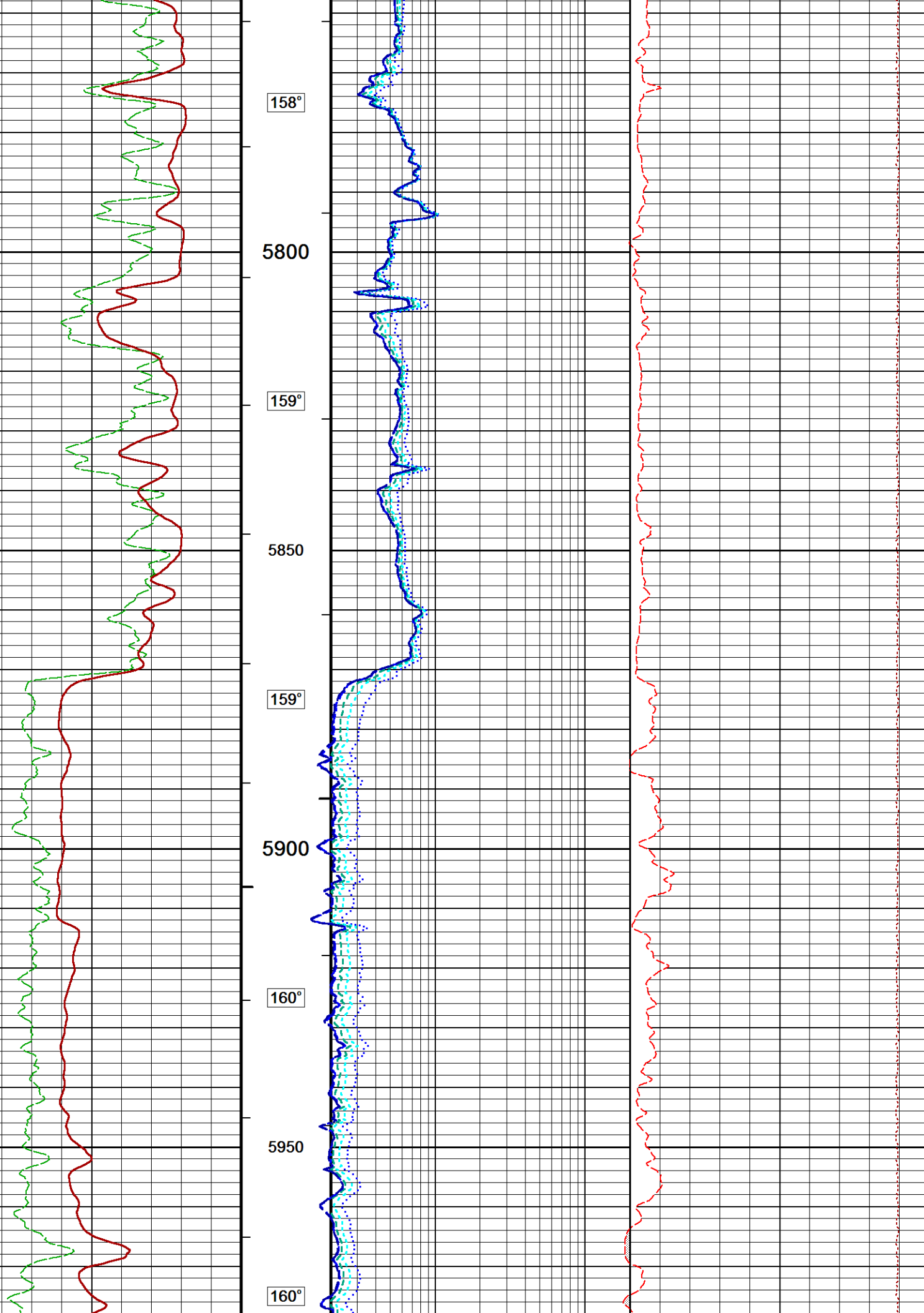


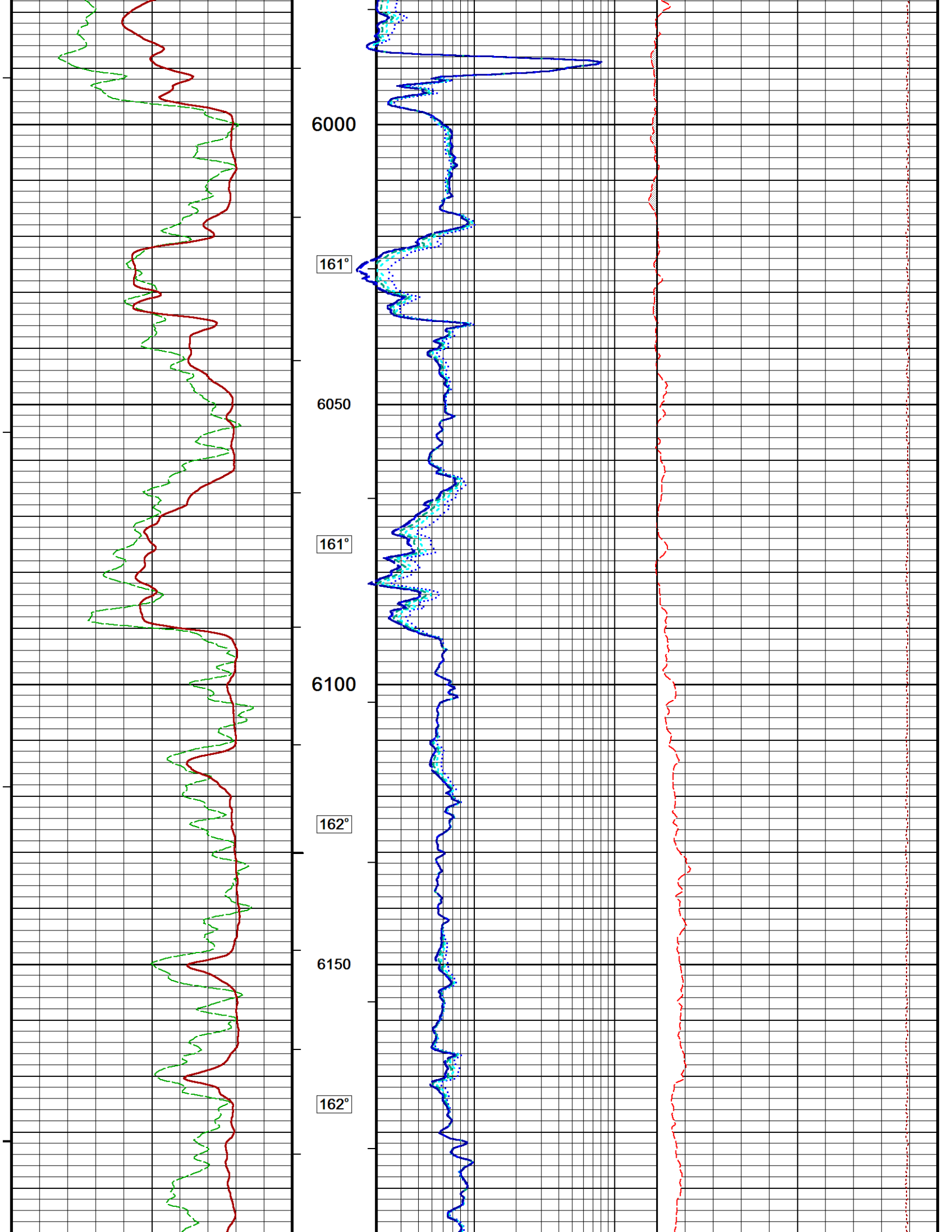


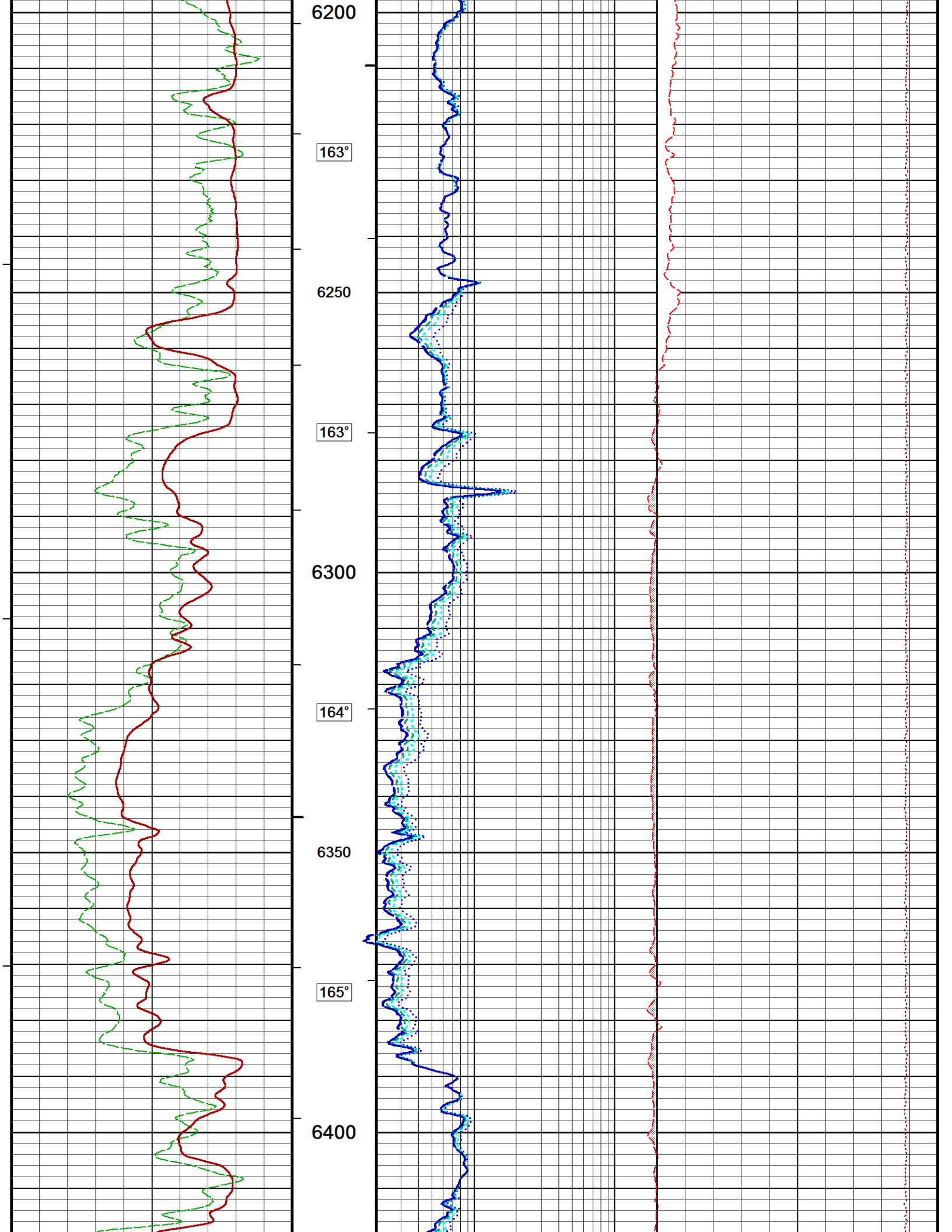


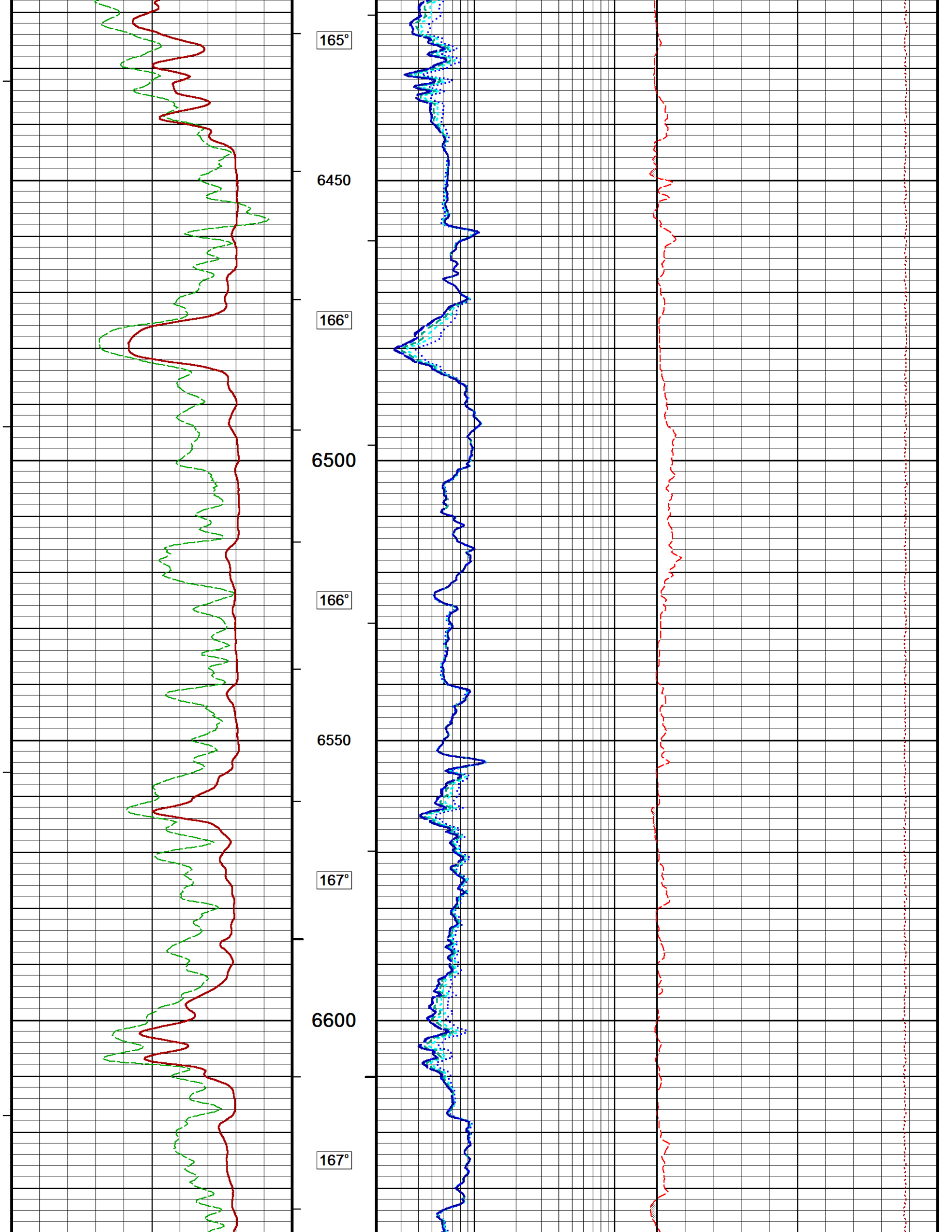


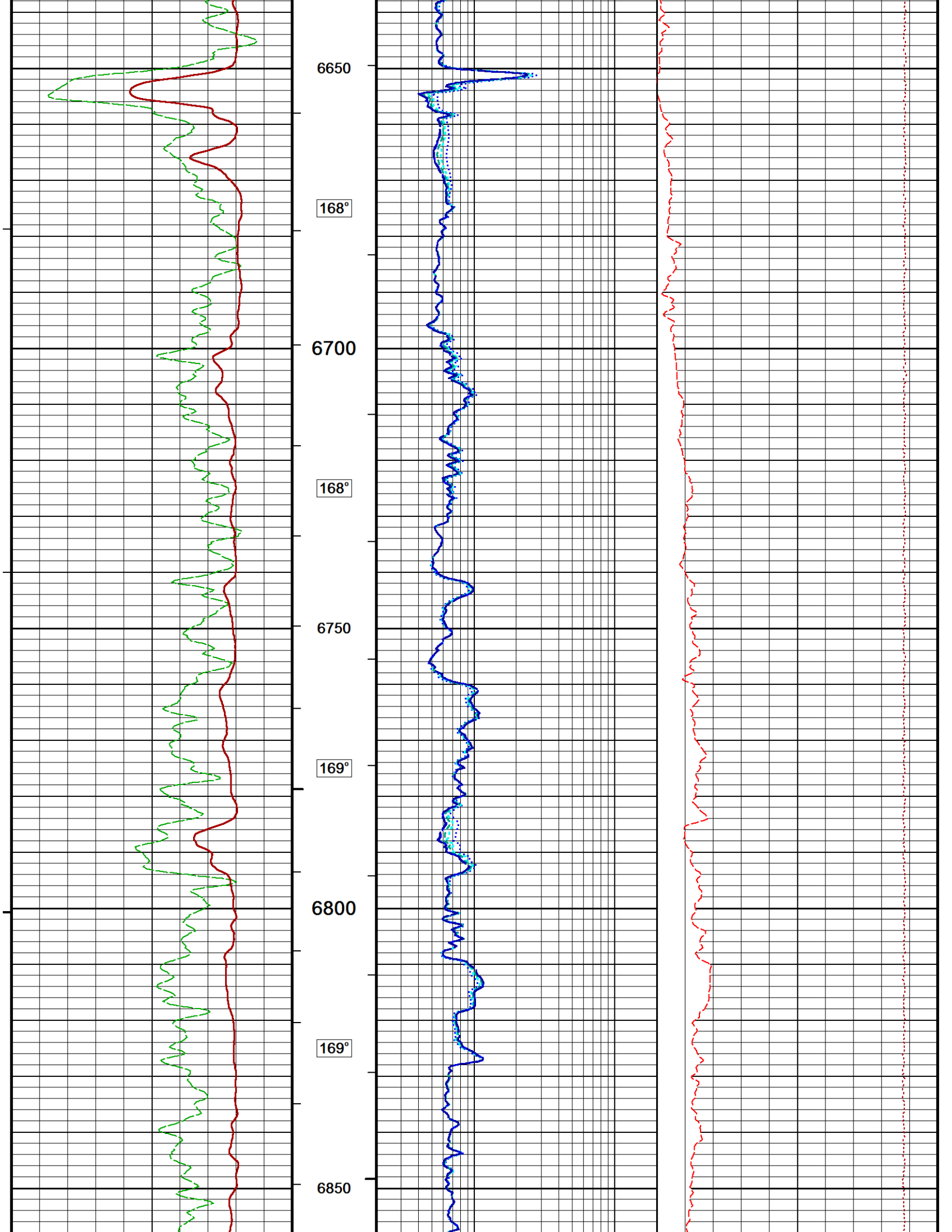


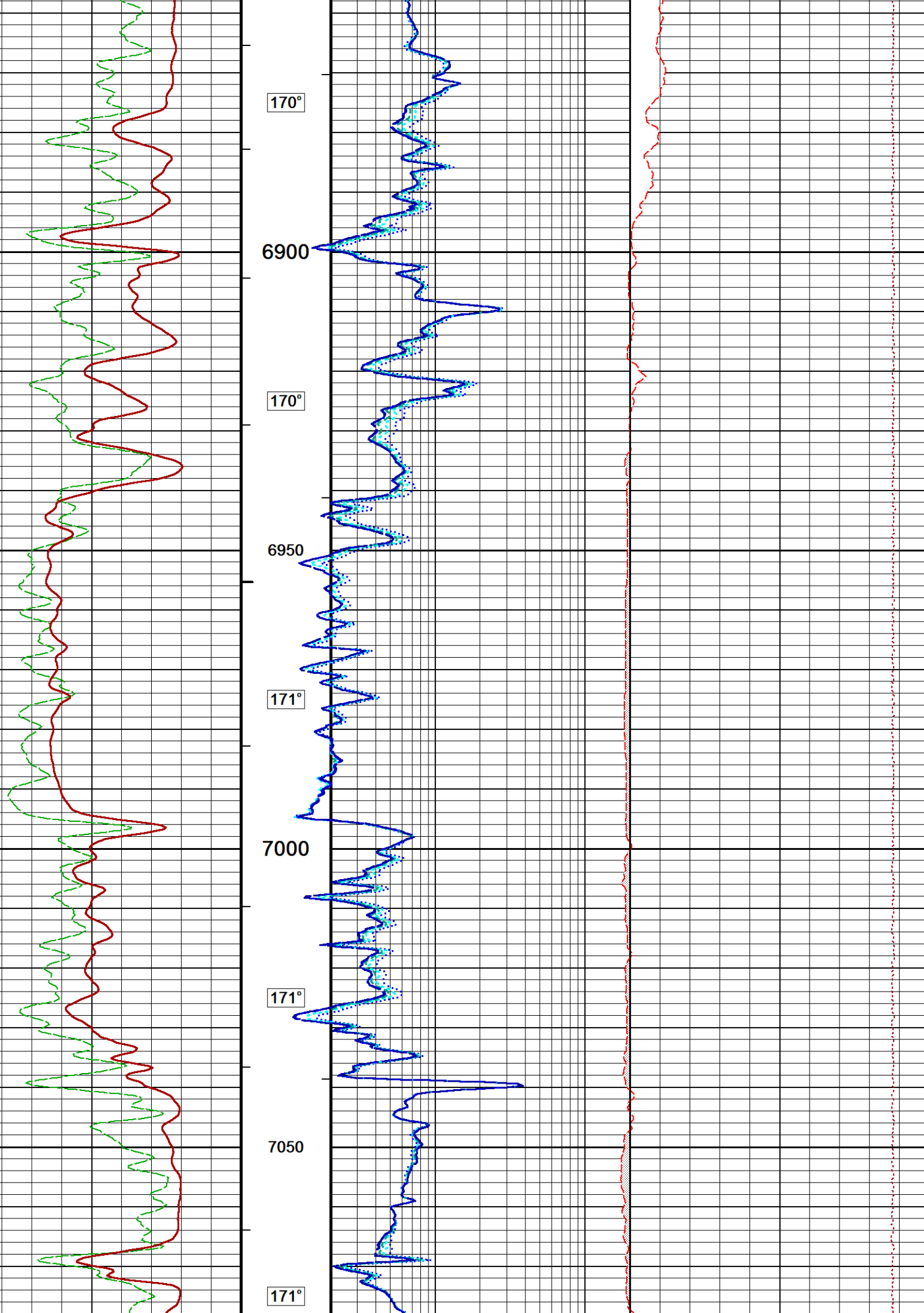


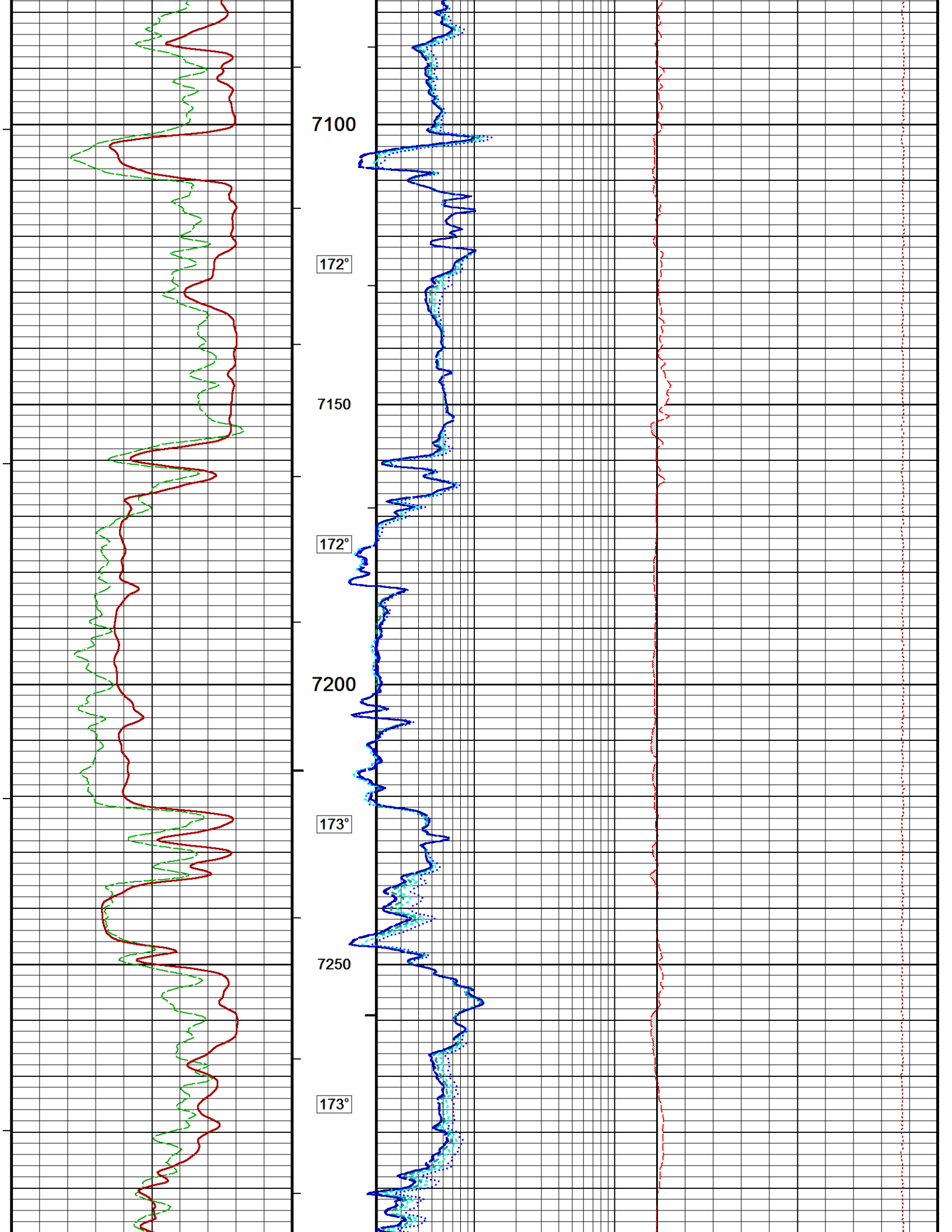


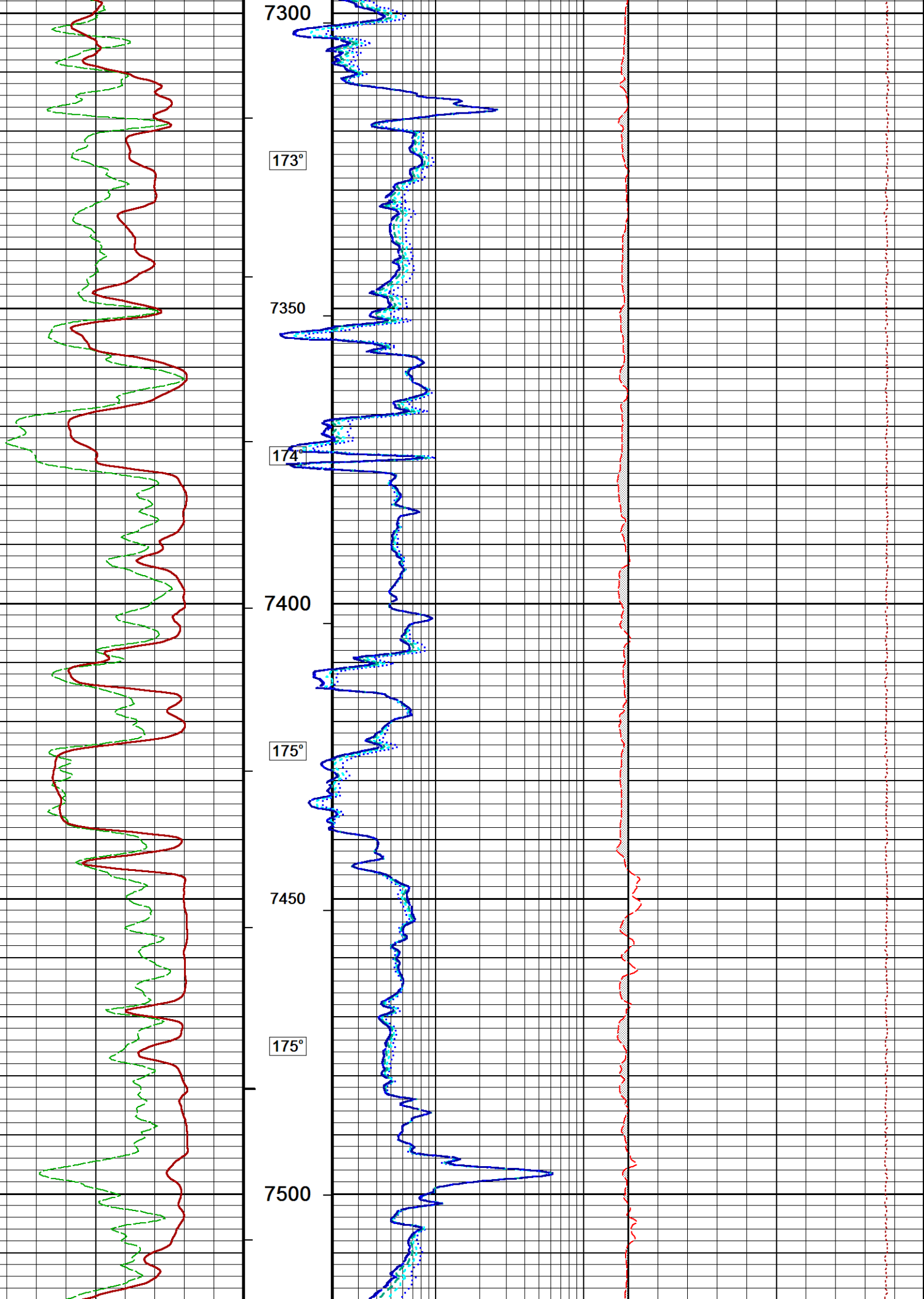


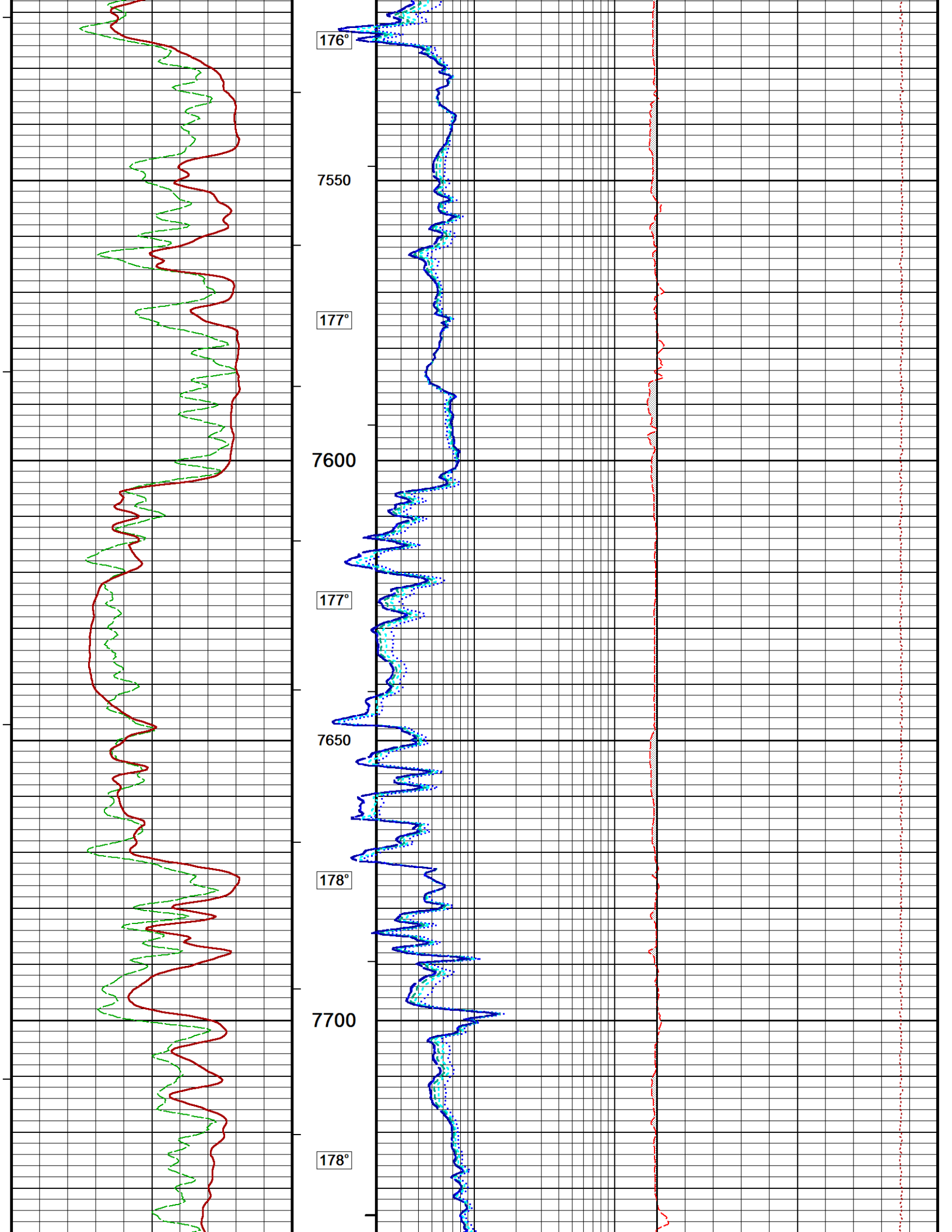


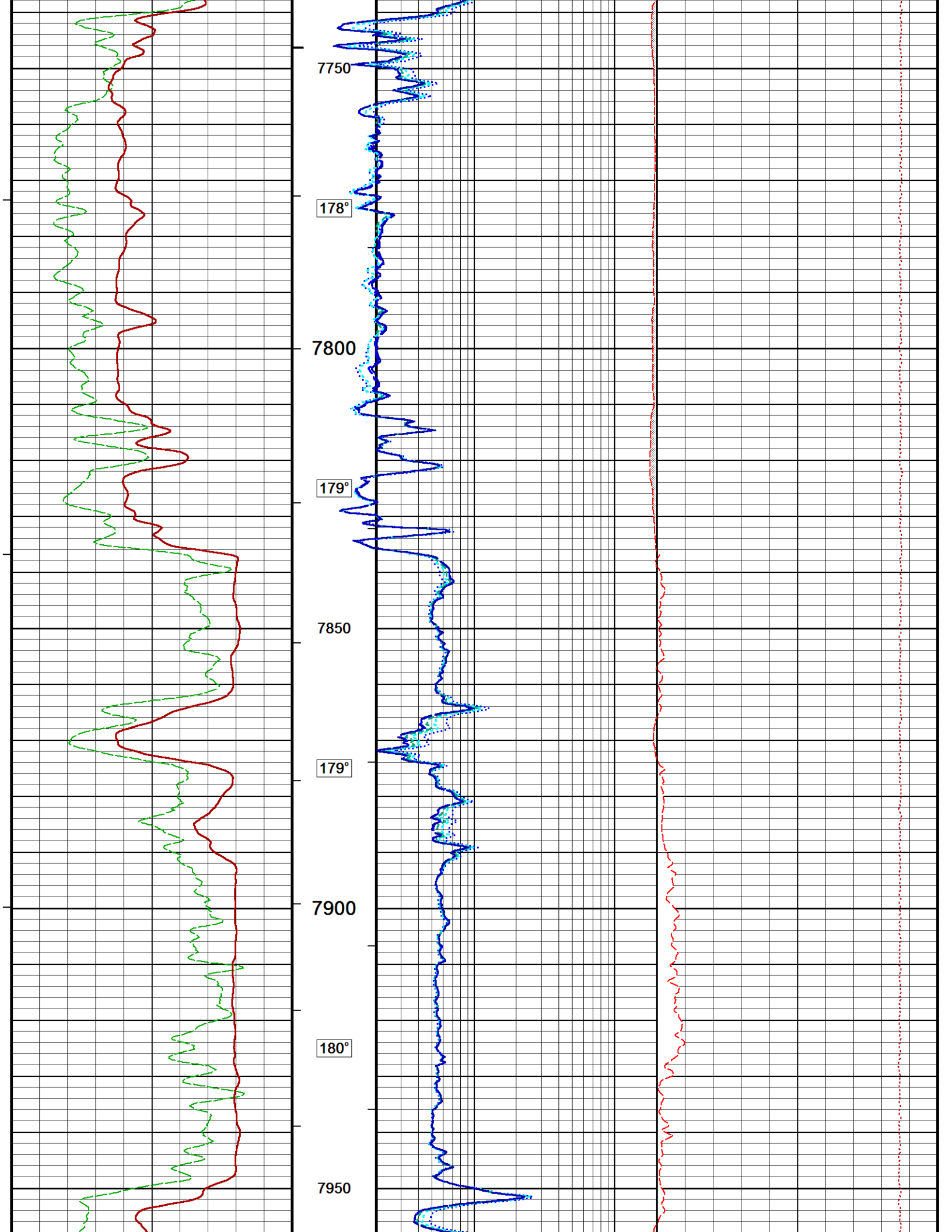


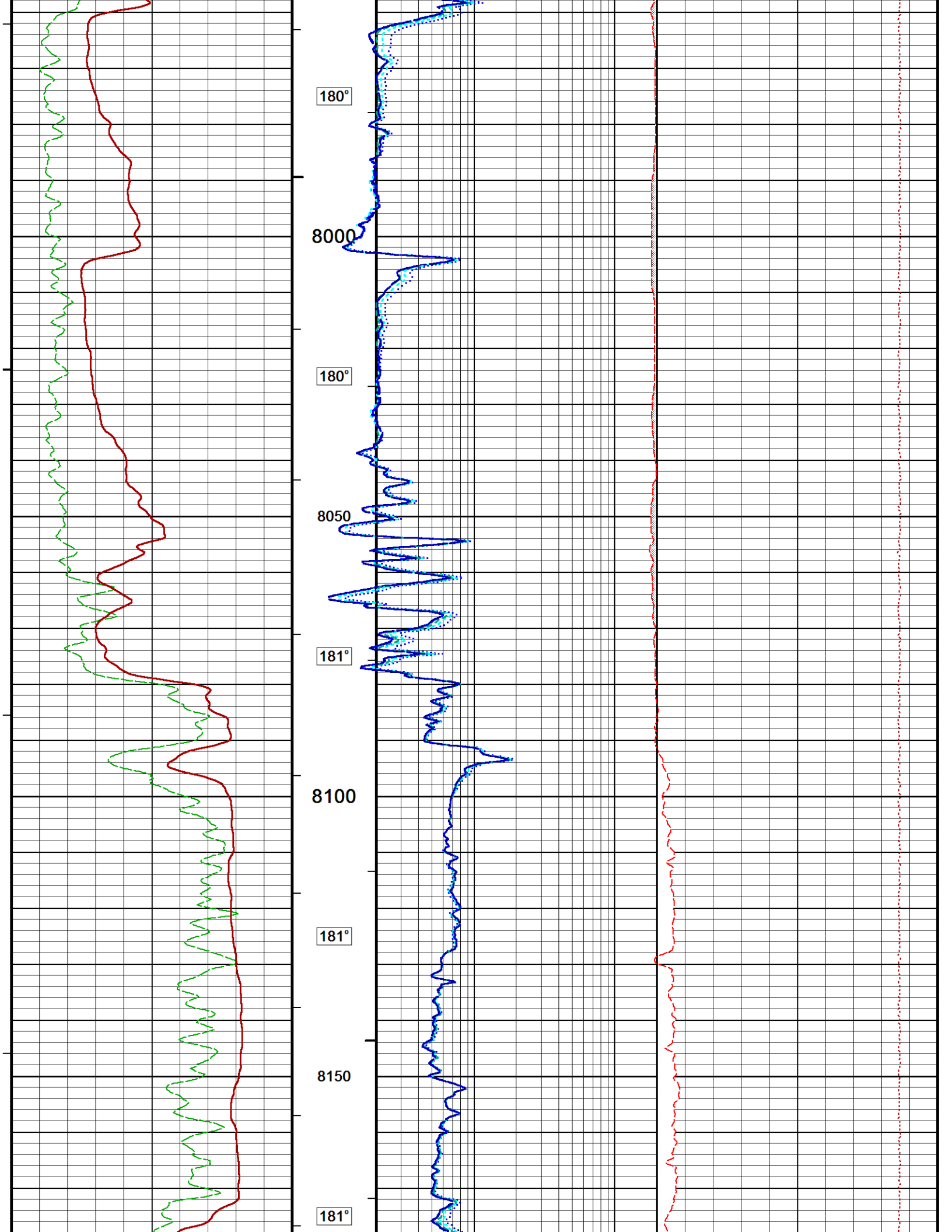


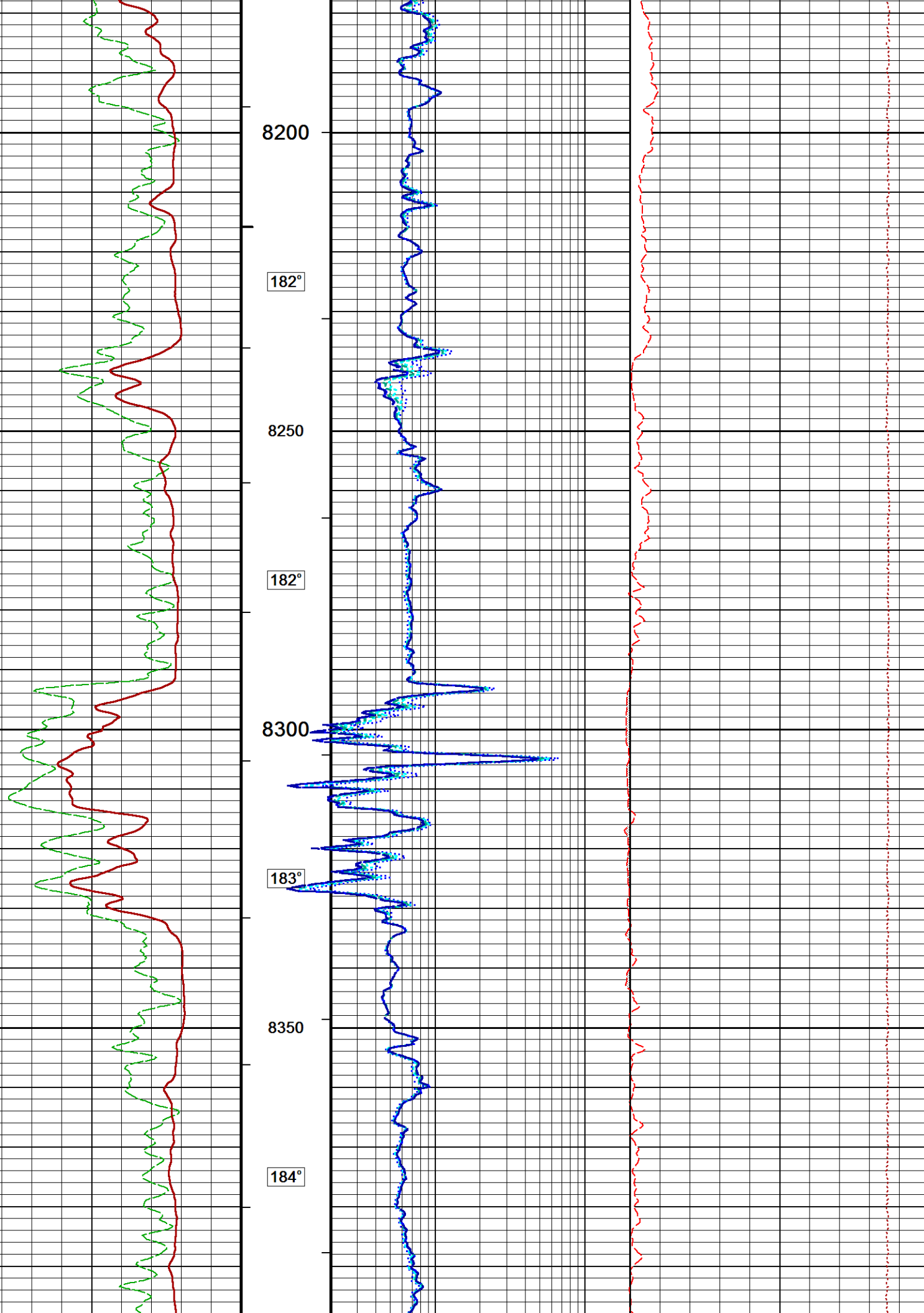


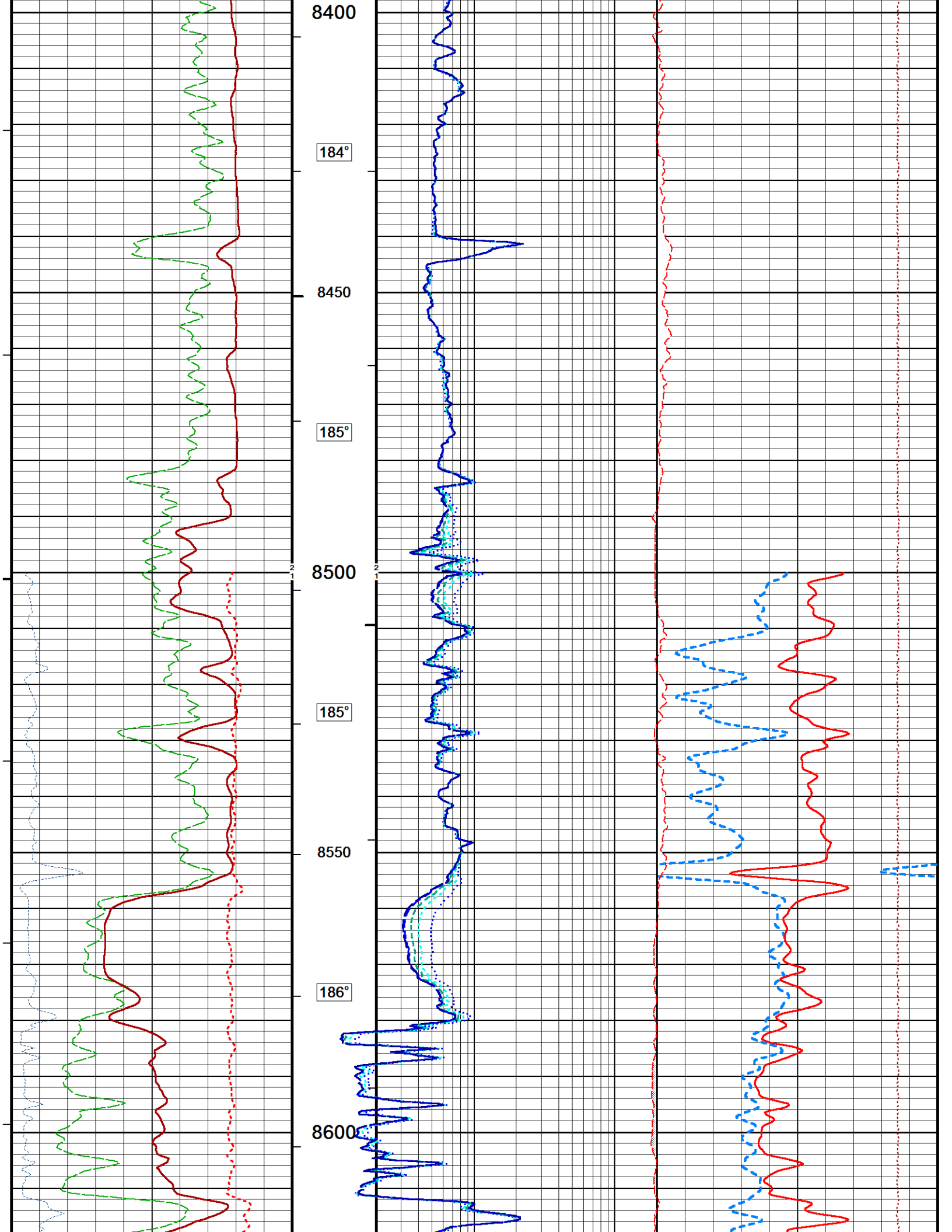


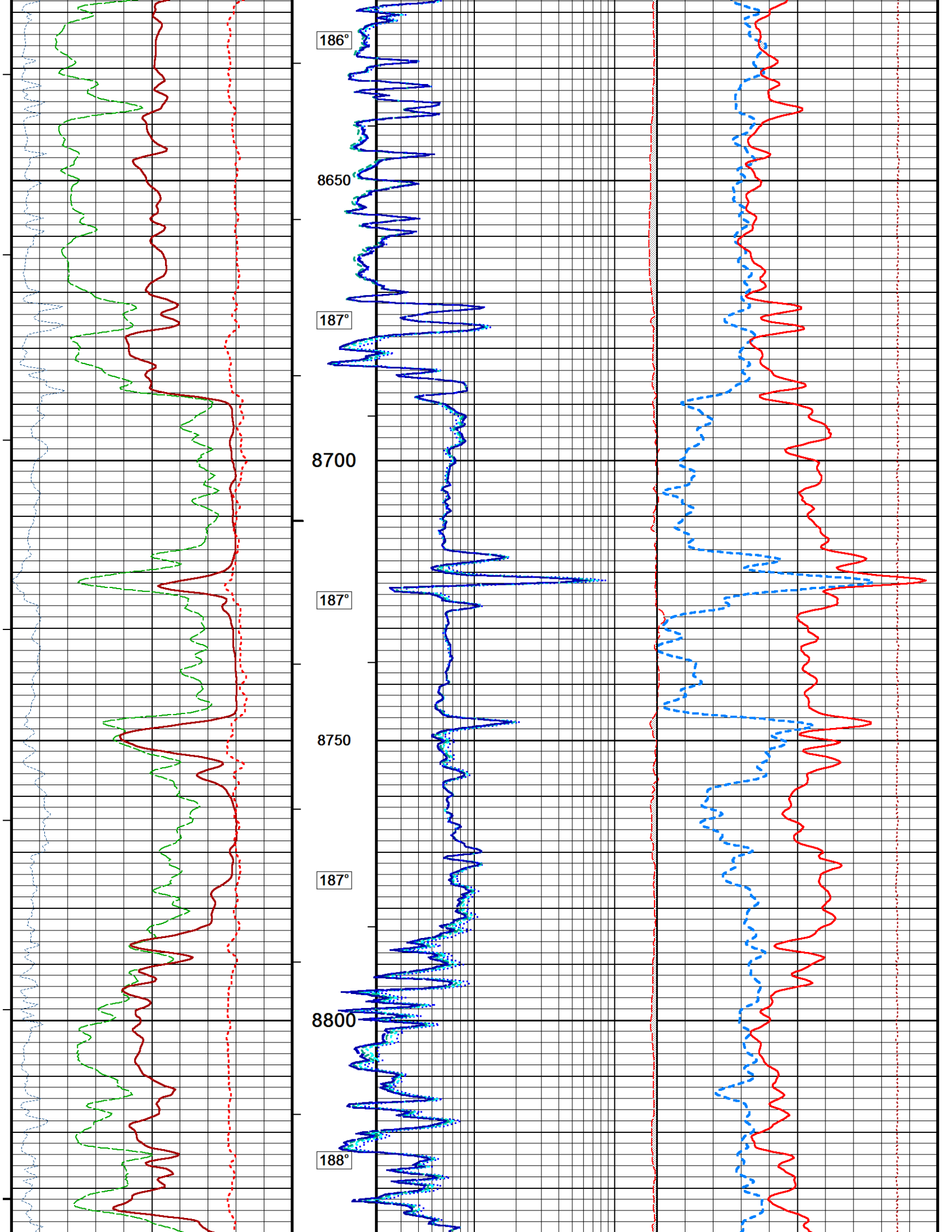


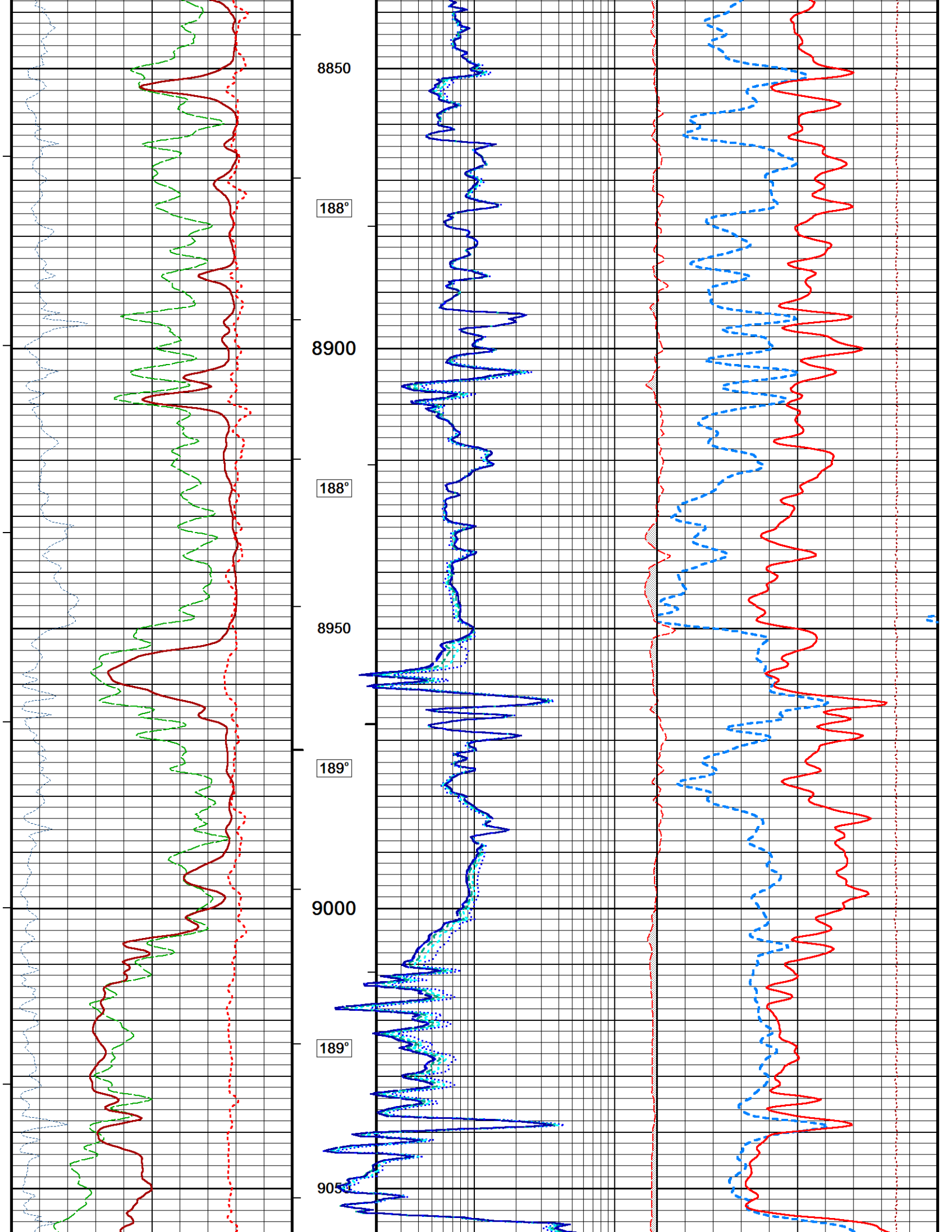


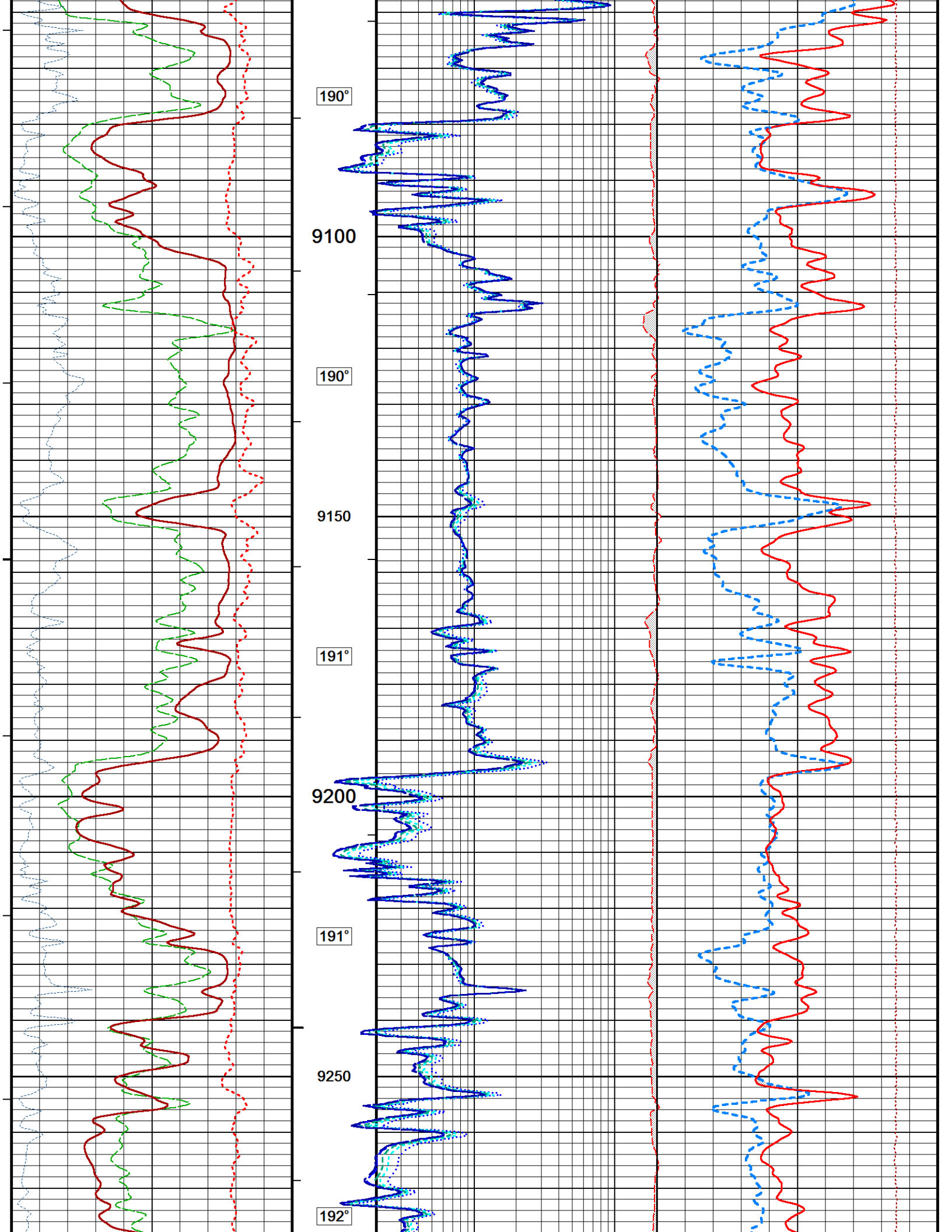


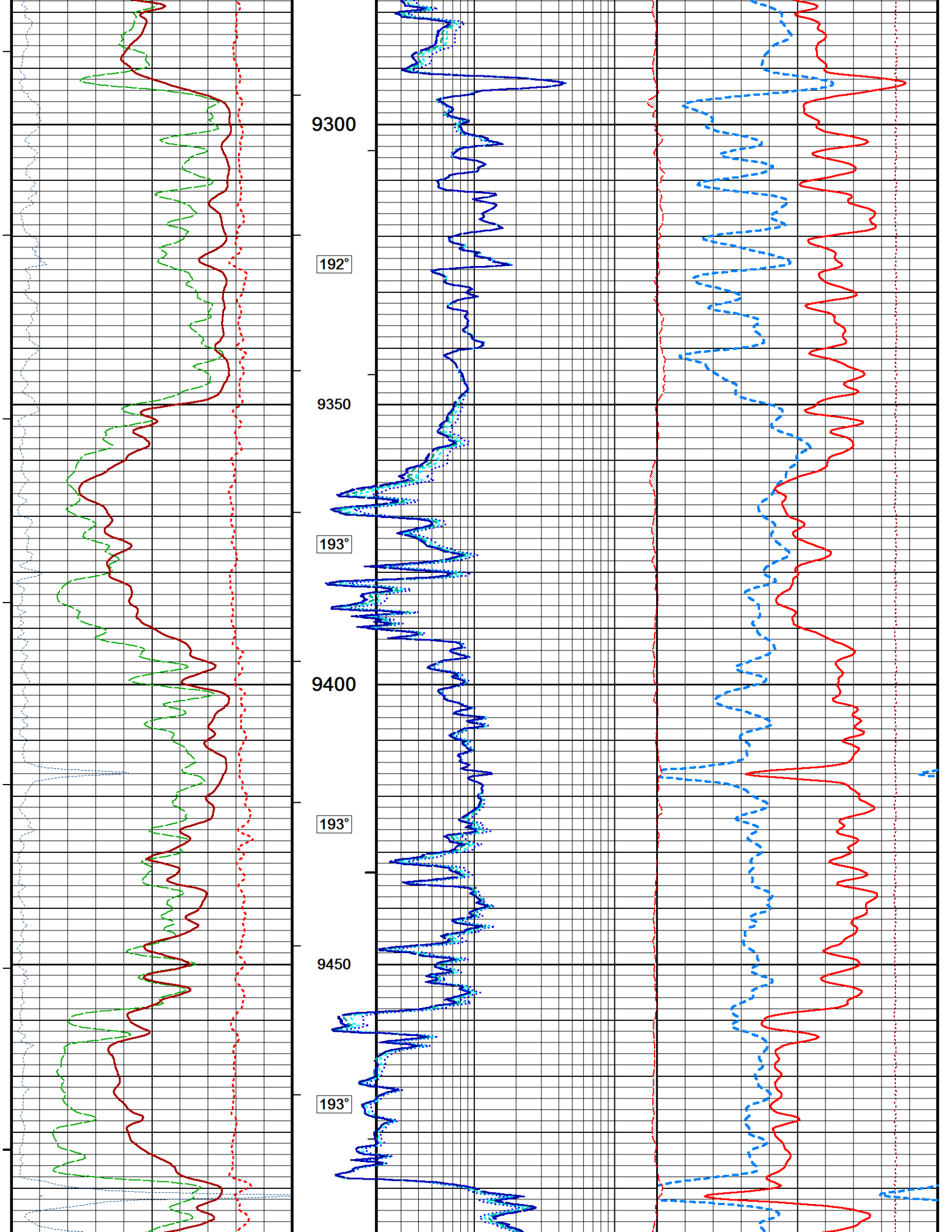


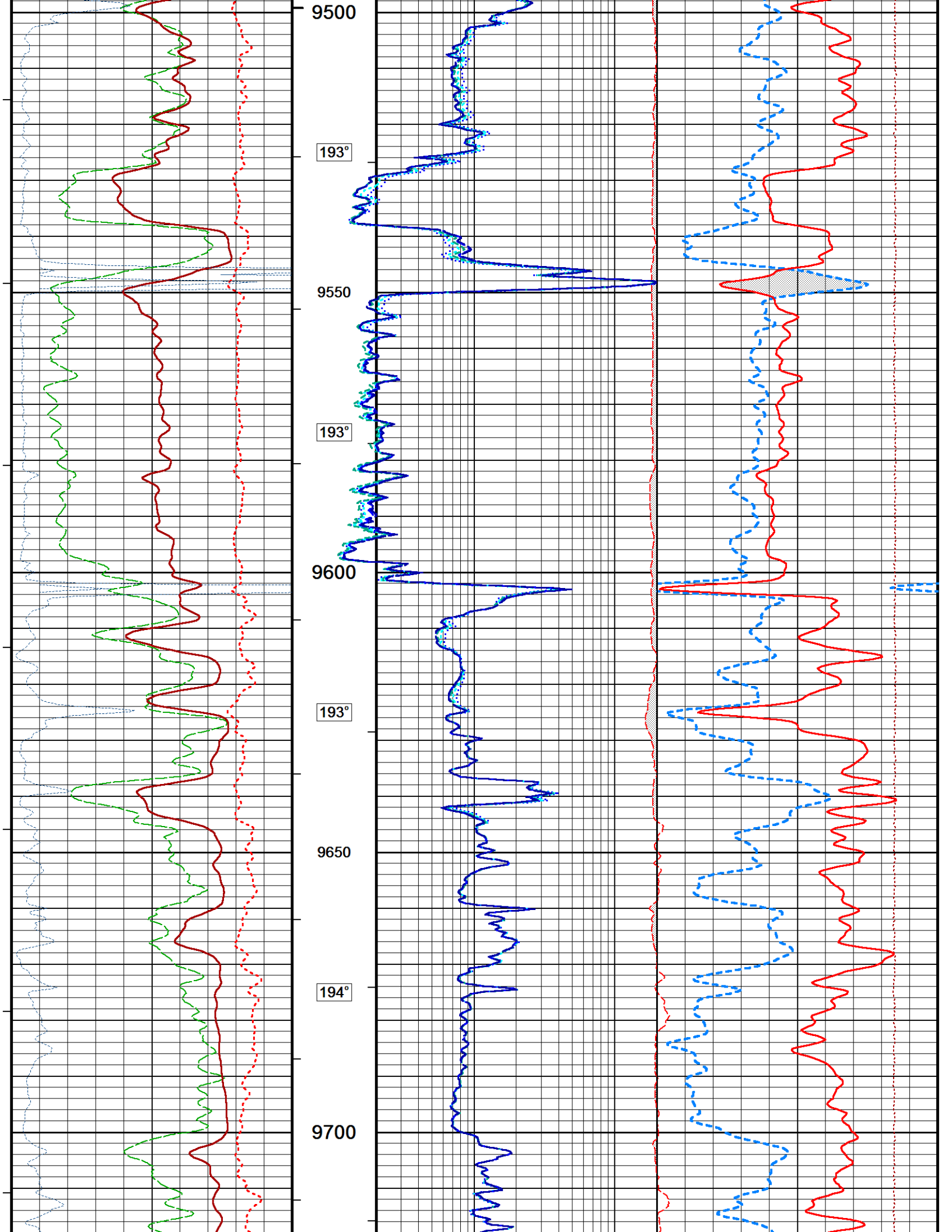


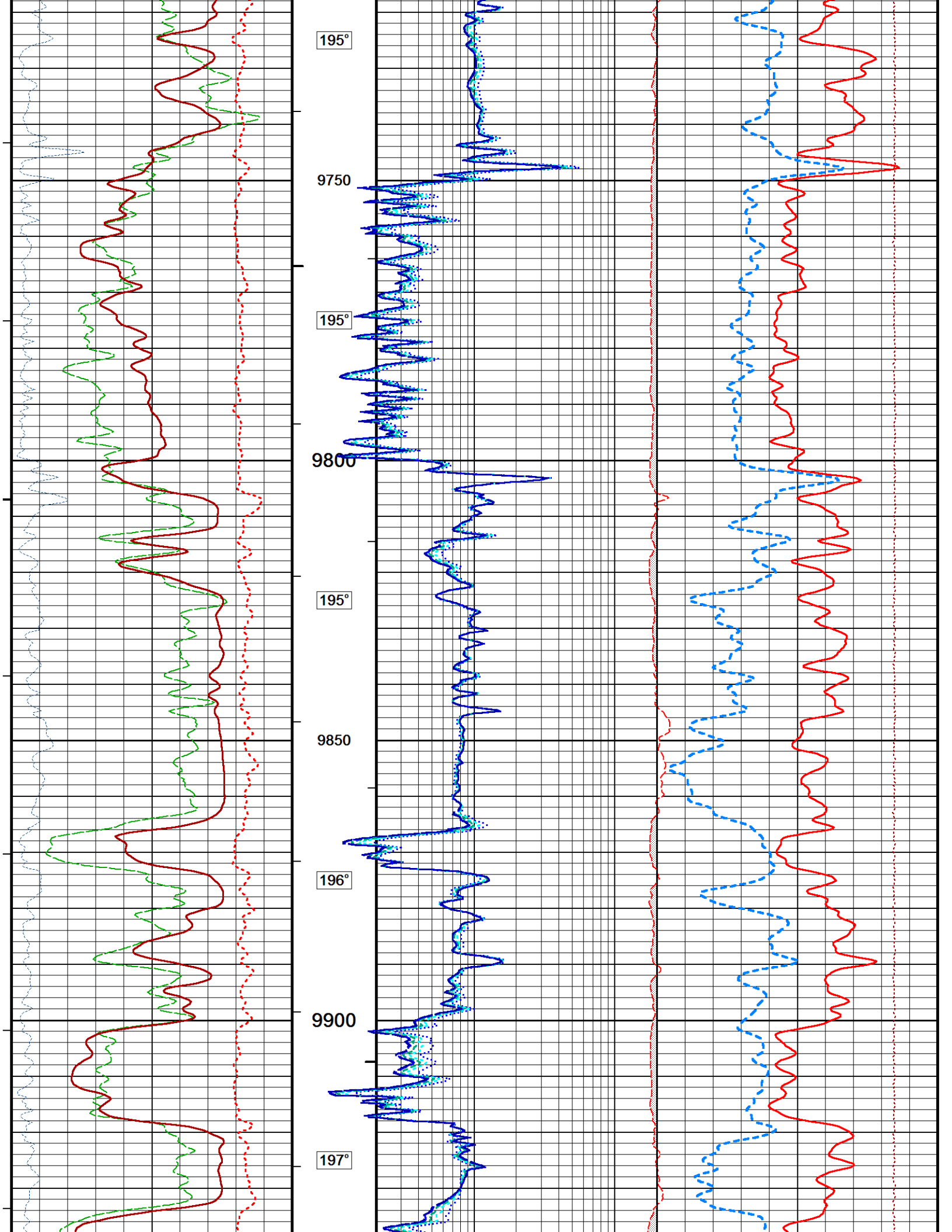


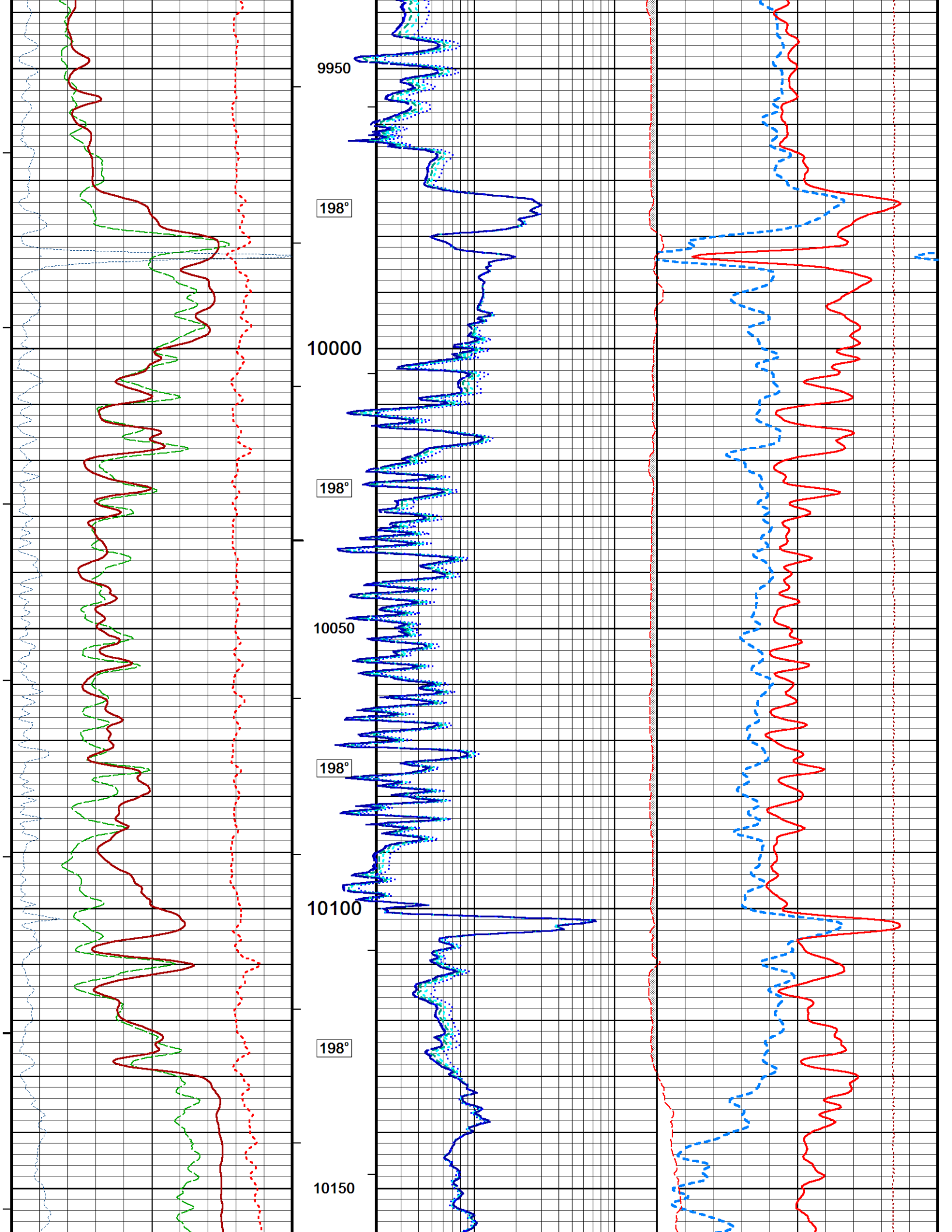


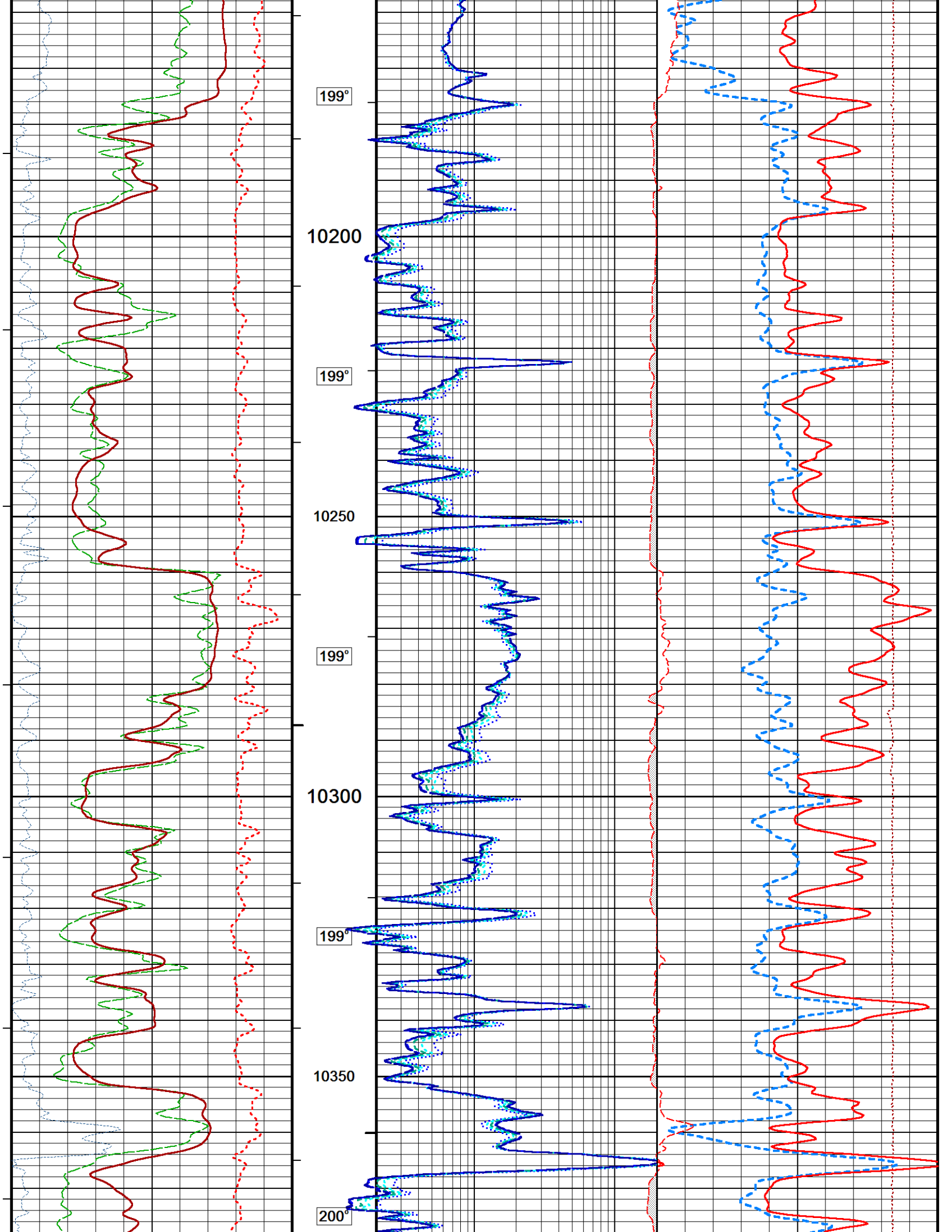


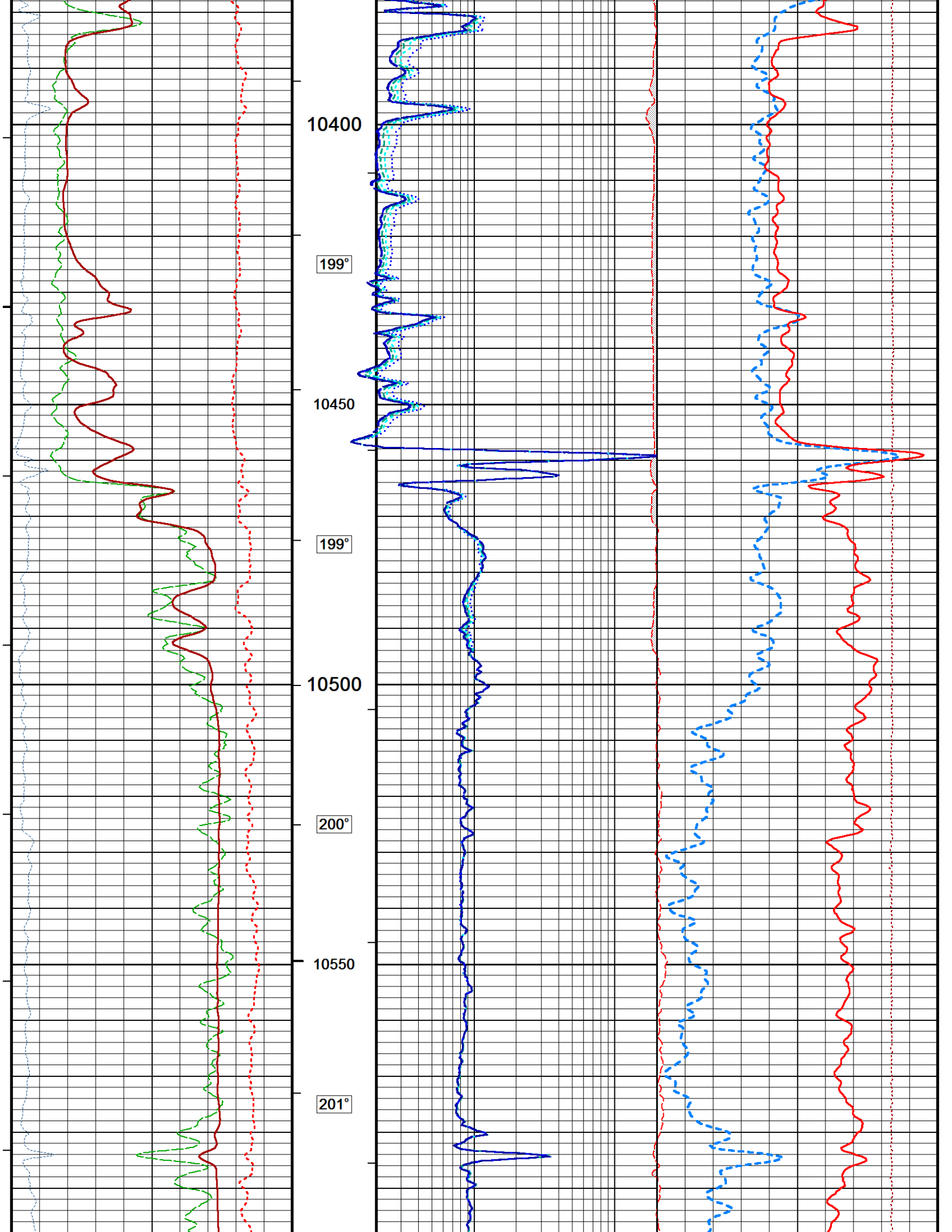


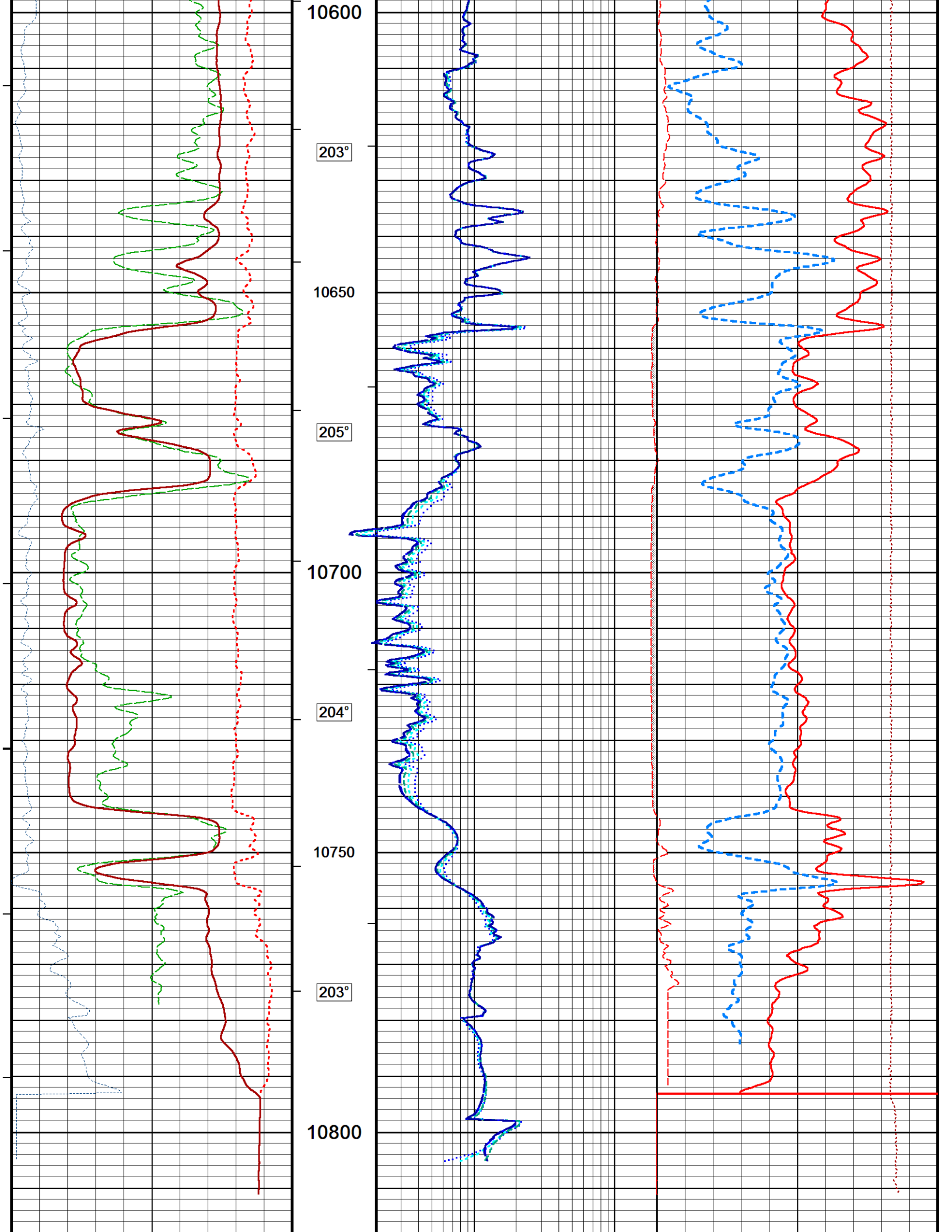


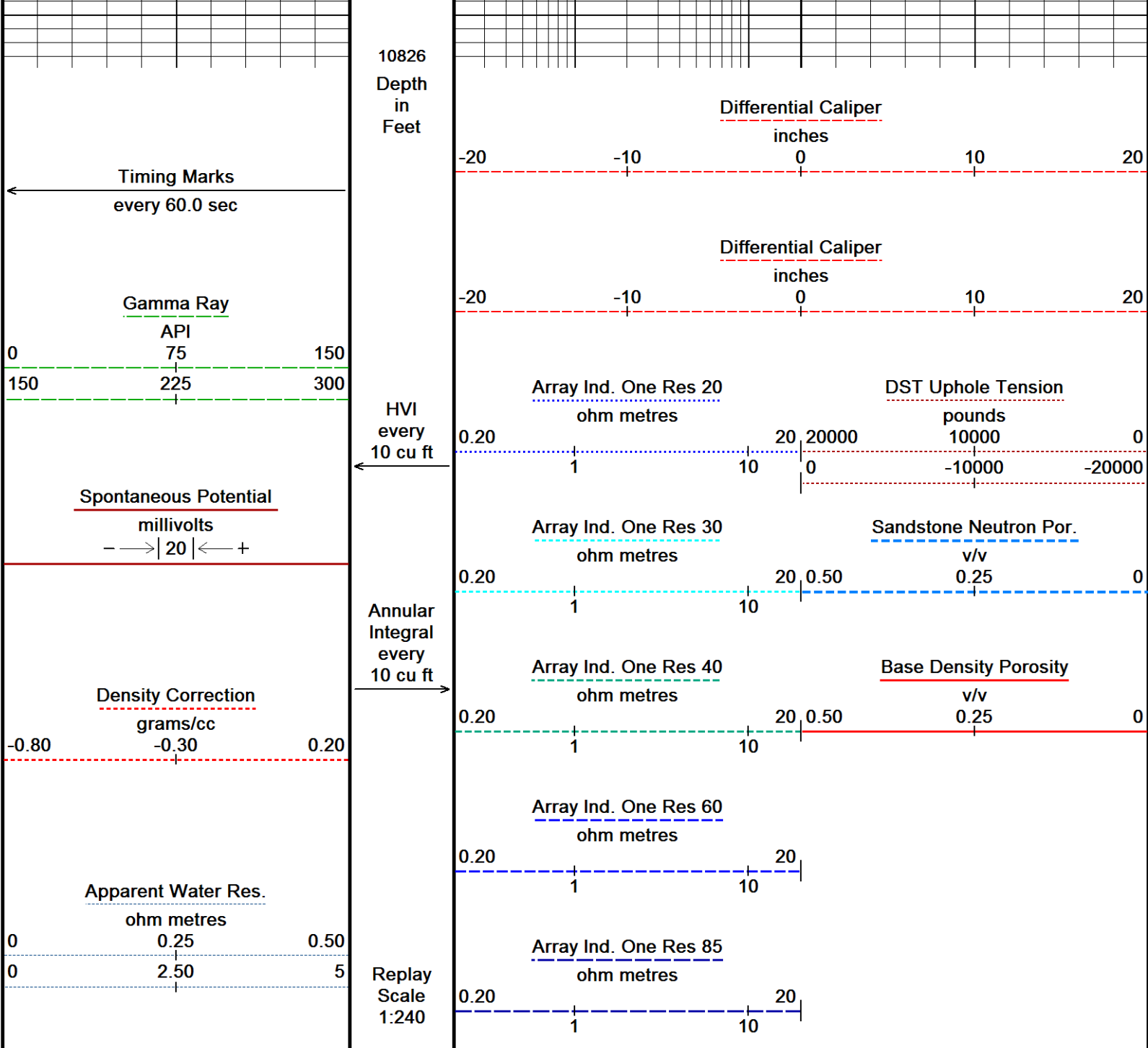












Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 22-JUL-2010 10:33  
 Filename: C:\DOCUME~1\cassidha\LOCALS~1\Temp\Weatherford PreView\0\Triple2.dta Recorded on 22-JUL-2010 03:10  
 System Versions: Logged with 10.08.1568 Plotted with 8.01.0091

MAIN PASS 1:240

### BEFORE SURVEY CALIBRATION

C:\DOCUME~1\cassidha\LOCALS~1\Temp\Weatherford PreView\0\Triple2.dta

General Constants All 000 Last Edited on 22-JUL-2010,01:41

General Parameters		
Mud Resistivity	1.500	ohm-metres
Mud Resistivity Temperature	85.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Water Level Switch	

Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	

Annular Volume Diameter	5.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Sandstone Density Por.	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.620	
RWA Constant M	2.150	

Gamma Calibration MCG 240		Field Calibration on 19-JUL-2010 07:25
	Measured	Calibrated (API)
Background	101	65
Calibrator (Gross)	1386	887
Calibrator (Net)	1285	822

Gamma Constants MCG 240		Last Edited on 22-JUL-2010,01:42
Gamma Calibrator Number	GRC-069	
Mud Density	1.26	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 240		Field Calibration on 15-JUN-2010 13:07
	Measured	Calibrated (mV)
Reference 1	102.4	100.5
Reference 2	-98.5	-100.5

High Resolution Temperature Calibration MCG 240		Field Calibration on 15-JUN-2010,13:12
	Measured	Calibrated(Deg F)
Lower	32.00	32.00
Upper	212.00	212.00

High Resolution Temperature Constants MCG 240	
Pre-filter Length	11

Neutron Calibration MDN 211		Base Calibration on 14-JUN-2010 16:15	Field Check on 19-JUL-2010 07:34	
Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2987	93	3714	110
Ratio	32.021		33.764	
Field Calibrator at Base				
			Calibrated (cps)	
			1817	2663
Ratio			0.682	
Field Check				
			Calibrated (cps)	
			1833	2719
Ratio			0.674	

Neutron Constants MDN 211		Last Edited on 22-JUL-2010,01:42
Neutron Source Id	P31130B	
Neutron Jig Number	N484	
Epithermal Neutron	No	
Caliper Source for Processing	Bit Size	
Stand-off	0.00	inches
Mud Density	1.26	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	7.00	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	

Formation Fluid Salinity 0.00 kppm  
 Barite Mud Correction Not Applied

Induction Calibration MAI 091

Base Calibration on 28-APR-2010,04:31  
 Field Check on 22-JUL-2010 01:49

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	17.3	467.6	9.3	966.2
2	5.2	375.3	7.6	821.4
3	3.4	259.1	5.2	566.0
4	1.8	129.7	2.6	279.2

Array Temperature 70.7 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	16.7	3910.7
2	0.0	0.0	35.3	3604.7
3	0.0	0.0	30.8	3061.4
4	0.0	0.0	21.8	2141.3
Deep	0.0	0.0	17.3	2003.1
Medium	0.0	0.0	45.2	3994.8
Shallow	0.0	0.0	55.2	5332.9

Array Temperature 0.0 95.8 Deg F

Induction Constants MAI 091

Last Edited on 22-JUL-2010,01:49

Induction Model RtAP-WBM  
 Caliper for Borehole Corr. Bit Size  
 Hole Size for Borehole Correction N/A inches  
 Stand-off 0.00 inches  
 Number of Fins on Stand-off 6.0000  
 Stand-off Fin Width 0.5000 inches  
 Borehole Corr. Rm Source Constant Value  
 Temp. for Rm Corr. N/A  
 Squasher Start 0.0020 mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	0.62	
Cementation Exponent (M)	2.15	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	1.00	v/v
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m

Photo Density Calibration MPD 217

Base Calibration on 15-JUN-2010 11:28  
 Field Check on 22-JUL-2010 01:46

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52342	24996	60310	31615
Reference 2	20899	2633	25079	2535

Field Check at Base  
 1274.1 1549.0

Field Check

1266.7 1536.5

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	229	1120		
Reference 1	23139	52122	0.449	0.400
Reference 2	5832	20738	0.286	0.271

Field Check at Base

229.0 1119.7

Field Check

227.2 1118.4

Density Constants MPD 217

Last Edited on 22-JUL-2010,01:46

Density Source Id	P21135B	
Nylon Calibrator Number	DNC-E-606	
Aluminium/Fe Calibrator Number	DAC-D-606	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.26	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.65	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD 217

Base Calibration on 20-JUN-2010 06:14  
Field Calibration on 19-JUL-2010,07:05

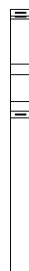
Base Calibration Reading No	Measured	Calibrator Size (in)
1	25024	3.99
2	33632	5.97
3	42192	7.96
4	50495	9.86
5	59840	11.92
6	N/A	N/A
Field Calibration	Measured Caliper (in) 8.54	Actual Caliper (in) 8.54

DOWNHOLE EQUIPMENT

C:\DOCUME~1\cassidha\LOCALS~1\Temp\Weatherford PreView\0\Triple2.tda

SHA-J.A Compact Swivel Head Adaptor  
SHA 226 Length: 2.30 ft Weight: 22.0 lb

Compact Gamma  
MCG 240 Length: 8.70 ft Weight: 63.9 lb



34.89 ft

GRGC - Gamma Ray

31.98 ft

CGXT - MCG External Temperature

Compact Neutron  
MDN 211 Length: 5.04 ft

Weight: 50.7 lb

Compact Density/Caliper  
MPD 217 Length: 9.59 ft

Weight: 90.4 lb

Compact Focussed Electric  
MFE 174 Length: 6.03 ft

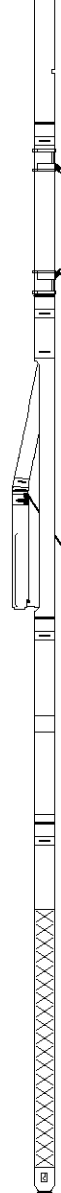
Weight: 48.5 lb

Compact Induction  
MAI 91 Length: 10.81 ft

Weight: 48.5 lb

Total Length: 42.47 ft

Weight: 324.1 lb



28.43 ft NPRS - Sandstone Neutron Por.

19.96 ft AVOL - Annular Volume  
19.96 ft HVOL - Hole Volume  
19.26 ft DPOR - Base Density Porosity  
19.26 ft DCOR - Density Correction

3.34 ft R300 - Array Ind. One Res 30  
3.34 ft R200 - Array Ind. One Res 20  
3.34 ft R600 - Array Ind. One Res 60  
3.34 ft R400 - Array Ind. One Res 40

3.34 ft R850 - Array Ind. One Res 85  
0.23 ft SPCG - Spontaneous Potential  
Tool Zero (0.13ft from bottom)  
All measurements relative to tool zero.

COMPANY	DYNAMIC EXPLORATION PARTNERS, LLC
WELL	RICHARD WELL #1
FIELD	GRAND CHENIERE
PROVINCE/COUNTY	CAMERON
COUNTRY/STATE	USA/LOUISIANA

Elevation Kelly Bushing	23.00	feet	First Reading	10792.00	feet
Elevation Drill Floor	22.00	feet	Depth Driller	10800.00	feet
Elevation Ground Level	5.00	feet	Depth Logger	10794.00	feet



**Weatherford**<sup>®</sup>

ARRAY INDUCTION  
DENSITY / NEUTRON  
GAMMA RAY LOG