



Weatherford

ARRAY INDUCTION / MFE
PHOTO DENSITY / DUAL NEUTRON
GAMMA RAY **TVD** LOG

COMPANY SMITH PRODUCTION COMPANY
WELL VUA; LENA ABSHIRE MEAUX ETAL #1
FIELD ABBEVILLE
PROVINCE/COUNTY VERMILION
COUNTRY/STATE USA / LOUISIANA
LOCATION X = 1,729,302.67 & Y = 488,168.06
PERMIT NUMBER 248220

SEC 08 TWP 12S RGE 03EM Other Services
Latitude 30.006522 BOREHOLE VOLUME
Longitude 92.188703
API Number 17113224860000

Permanent Datum GL, Elevation 10 feet
Log Measured From KB
Drilling Measured From KB @ 24 FEET
Date 29-JUL-2014
Run Number ONE
Service Order 6154-93800060

Elevations:
KB 24.00
DF 23.00
GL 10.00

Depth Driller	8804.00	feet
Depth Logger	8815.00	feet
First Reading	8811.00	feet
Last Reading	1413.50	feet
Casing Driller	1415.00	feet
Casing Logger	1413.50	feet
Bit Size	7.875	inches
Hole Fluid Type	WATER BASED	
Density / Viscosity	9.60 lb/USg	51.00 sec/Qt
PH / Fluid Loss	10.20	5.60 ml/30Min
Sample Source	FLOWLINE	
Rm @ Measured Temp	0.80 @ 71.0	ohm-m
Rmf @ Measured Temp	0.60 @ 71.0	ohm-m
Rmc @ Measured Temp	1.0 @ 71.0	ohm-m
Source Rmf / Rmc	CALCULATE	
Rm @ BHT	0.33 @179.0	ohm-m
Time Since Circulation	1 HOUR	
Max Recorded Temp	179.00	deg F
Equipment / Base	13046	BROUSS
Recorded By	J. OCHEJA	
Witnessed By	H. ANTIE	
Rig Name	ENERGY DRILLING RIG #6	

BOREHOLE RECORD

Last Edited: 29-JUL-2014 02:23

Bit Size inches	Depth From feet	Depth To feet
7.875	1415.00	8804.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1415.00	24.00

REMARKS

SERVICE ORDER # 6154-93800060

TOOLS RUN1: HFS, MAI, MFE, MPD, MDN, MCG, SHA, MTA

HARDWARE: MAI: 0.5 INCH STANDOFF USED. HOLE FINDER RUN AT BOTTOM
MDN: DUAL BOWSPRING USED
MFE: 0.5 INCH STANDOFF USED
MPD: 8 INCH PROFILE PLATE USED. HOLE STABILIZER USED

2.65 MATRIX DENSITY USED TO CALCULATE POROSITY

POROSITY VALUES MAY READ HIGH IN AREAS WITH EXCESSIVE WASHOUTS

RWA CALCULATED USING; A=0.62 AND M=2.15

HOLE VOLUME FROM TD TO CASING SHOE FOUND TO BE = 4,470 CU FT

ANNULAR VOLUME FROM TD TO CASING SHOE CALCULATED FOR 5.5" PRODUCTION CASING = 3,250 CU FT

ANNULAR VOLUME FROM TD TO CASING CHASE CALCULATED FOR 0.0 PRODUCTION GRING 0,200 00 FT

ALL INTERVALS LOGGED AND SCALED AS PER CUSTOMER REQUEST

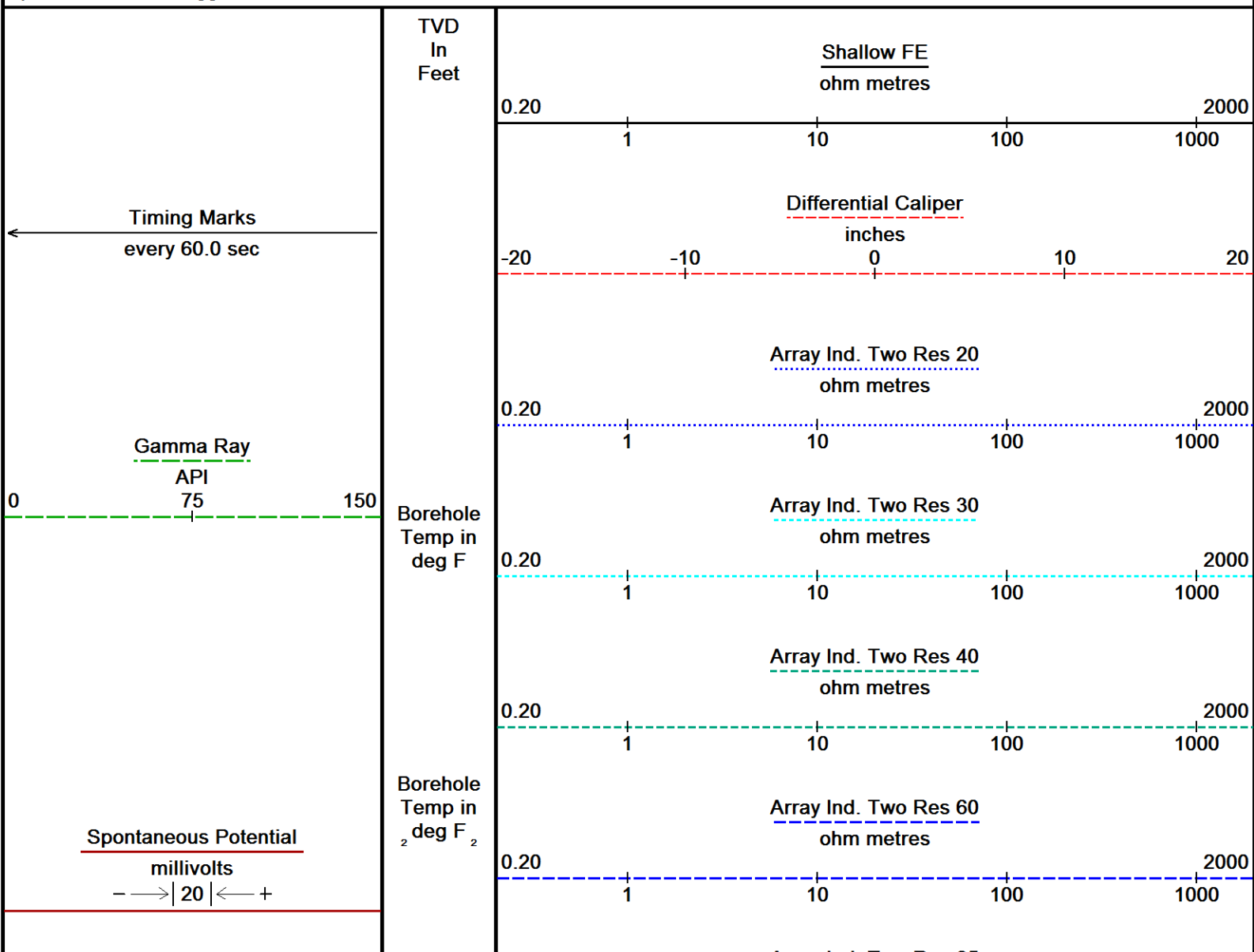
REPEAT PERFORMED UNDERNEATH CASING AS PER CUSTOMER REQUEST

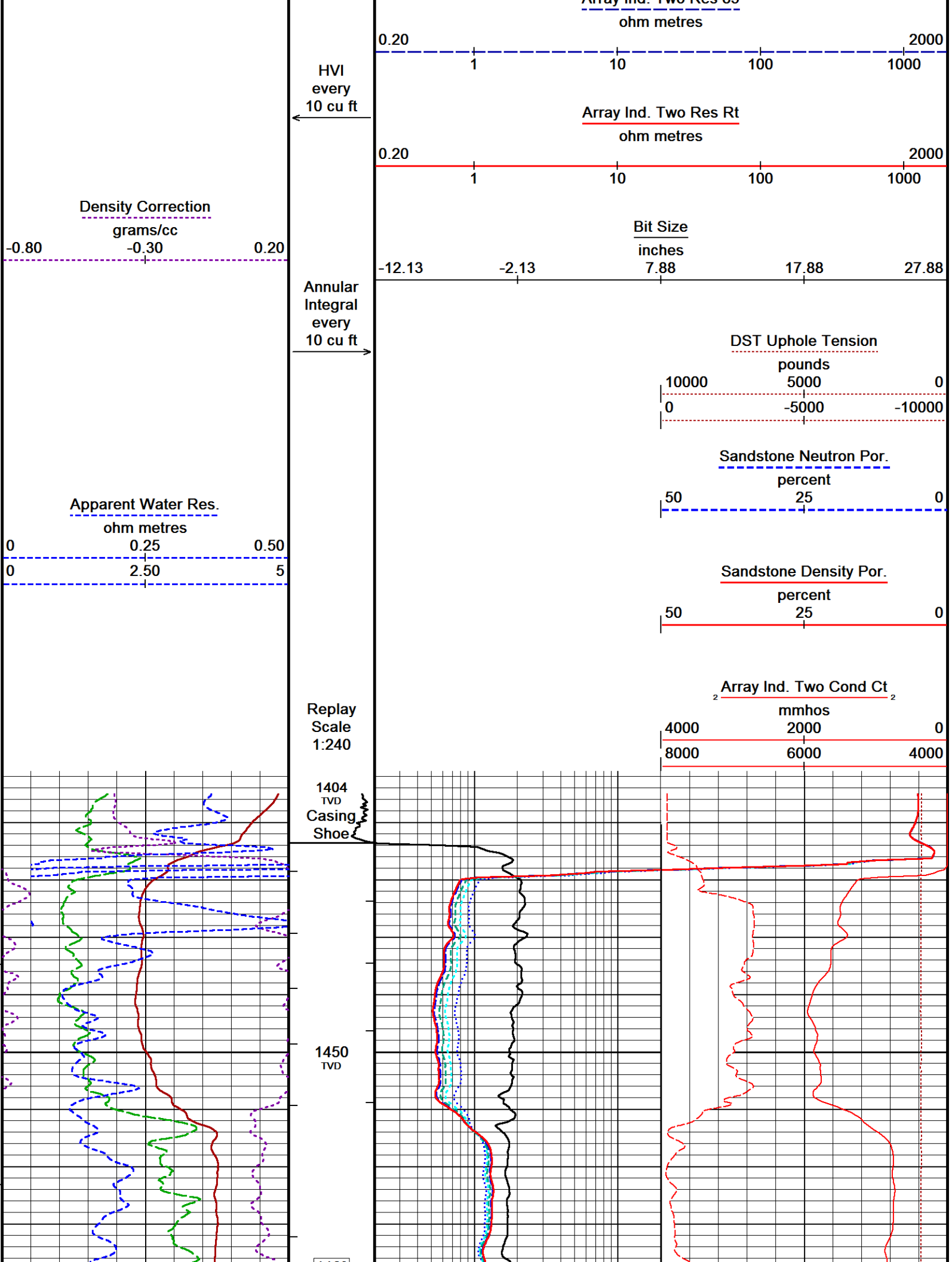
CREW: J. OCHEJA, D. RUTHERFORD, J. METTLEN

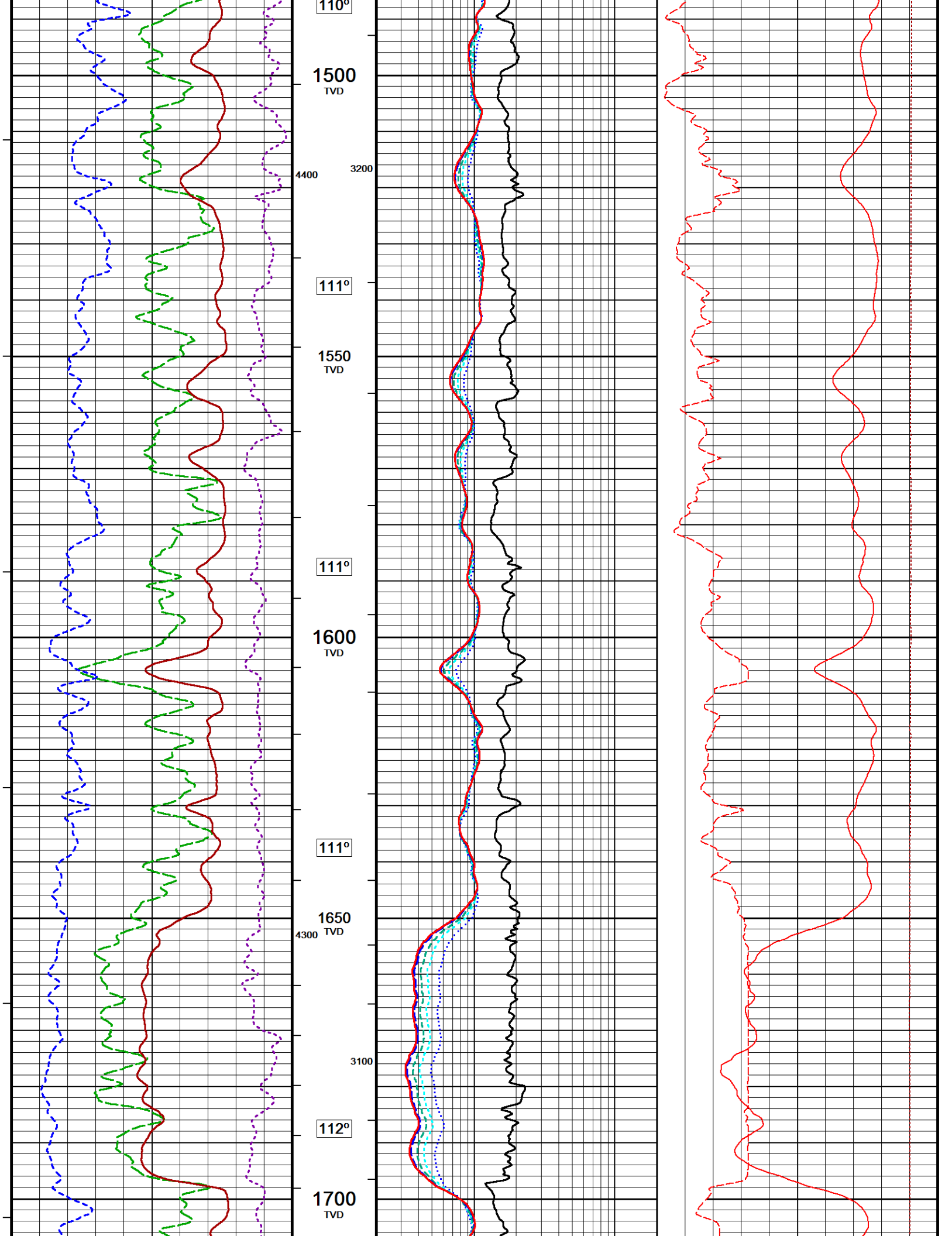
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

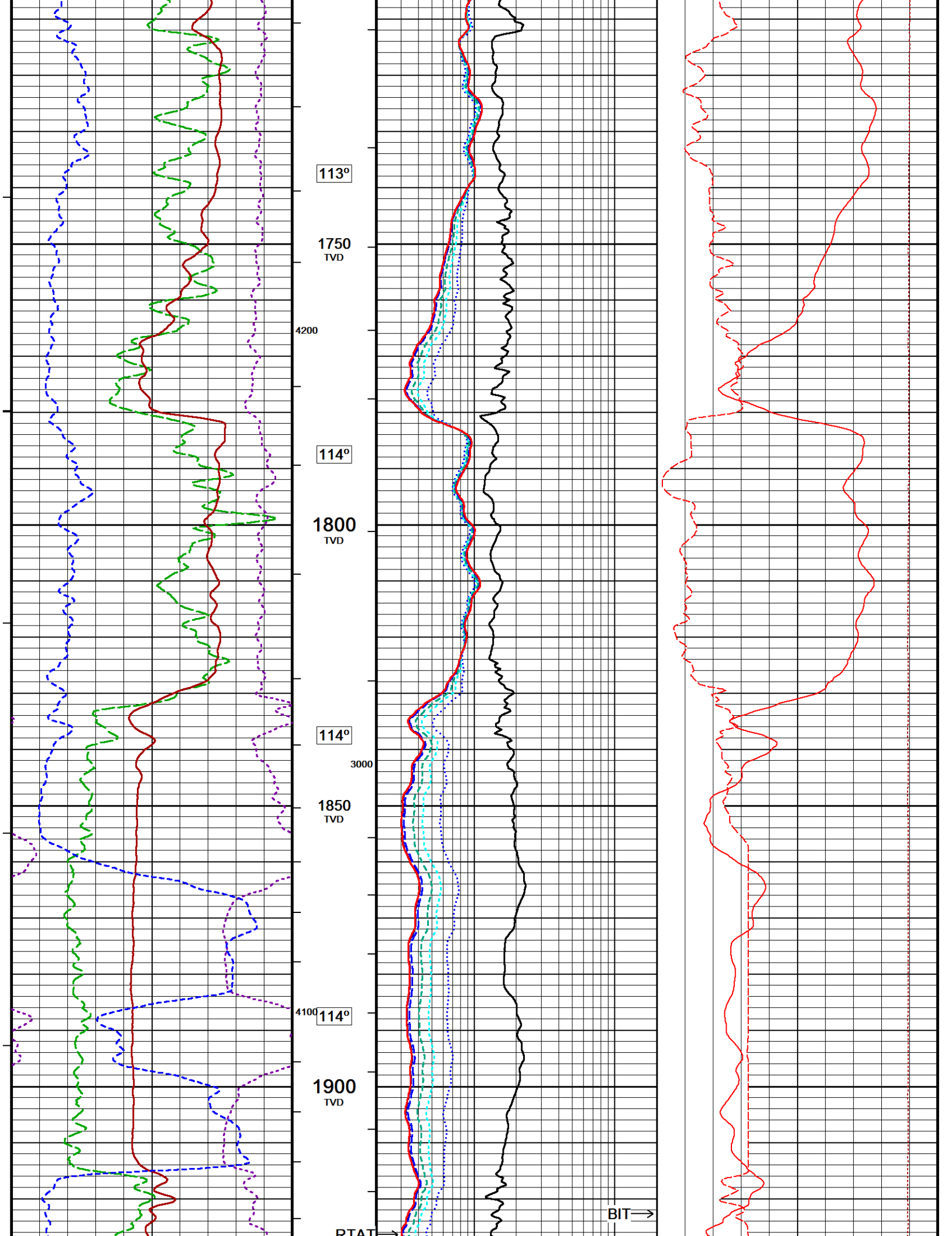
FIVE INCH MAIN PASS TVD 1:240

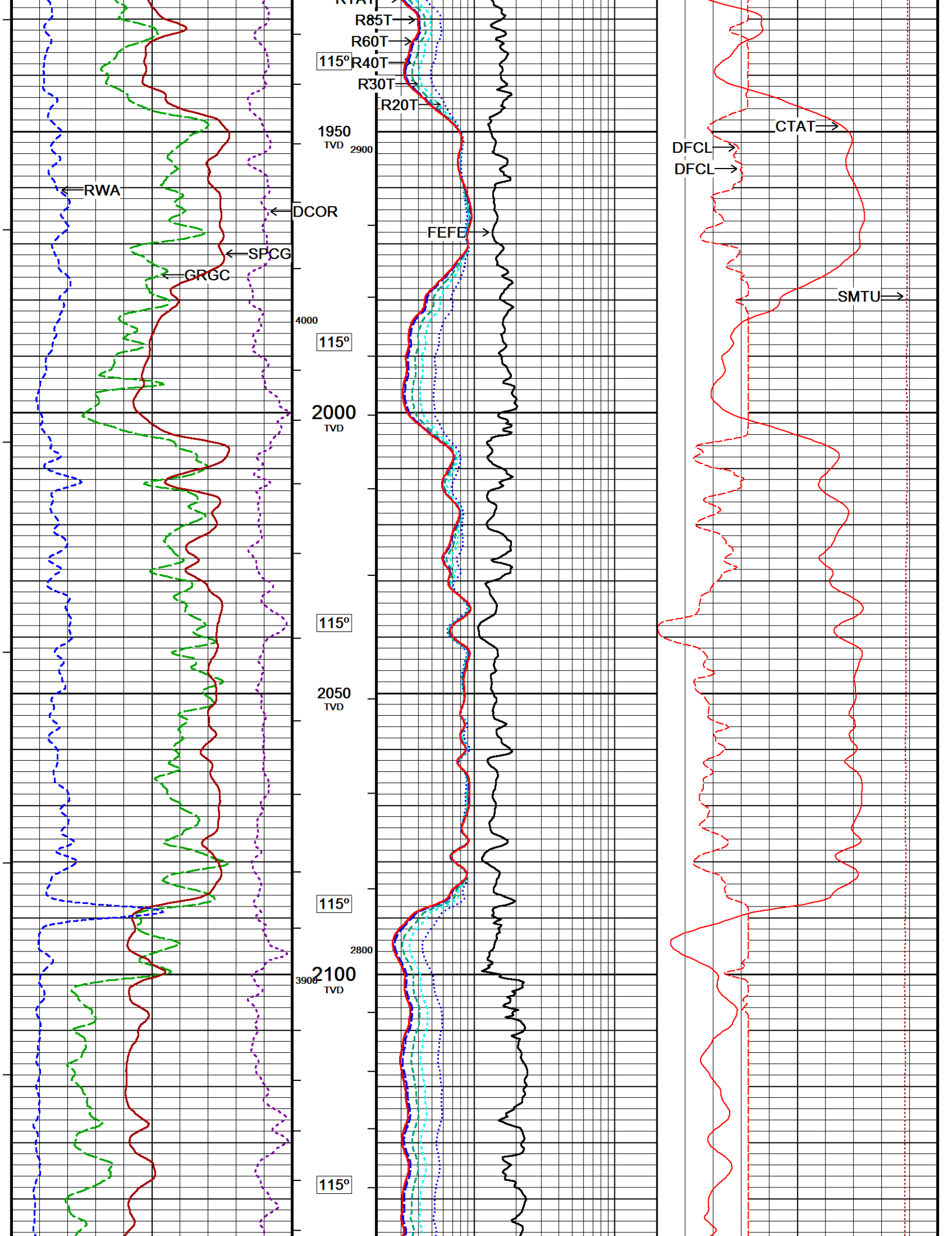
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-JUL-2014 10:09
 Filename: C:\Data\13.08\Smith Production Co...\Smith Production_Vua Lena Abshire Meaux Etal #2.dta Recorded on 29-JUL-2014 05:07
 System Versions: Logged with 14.01.3016 Plotted with 14.01.3016

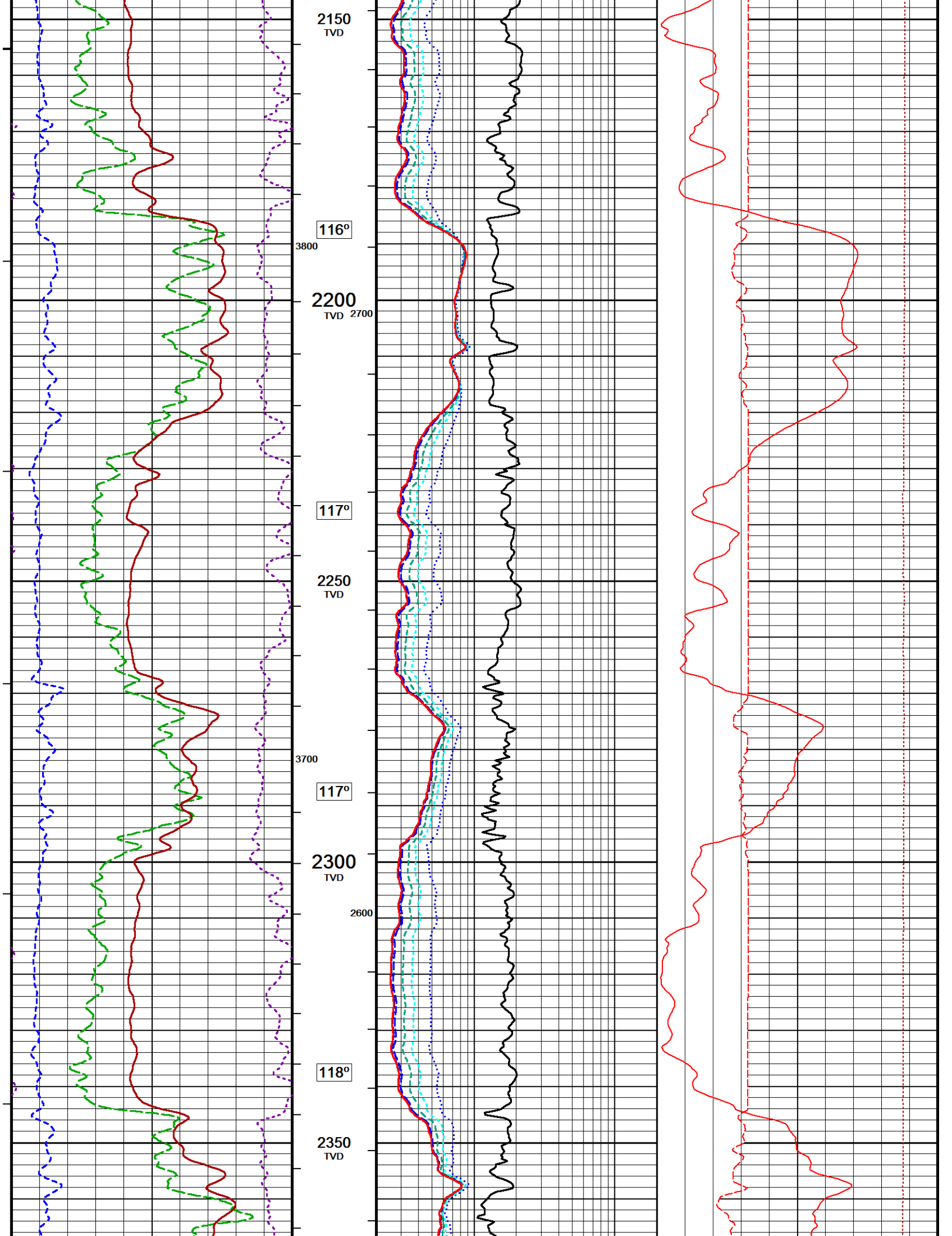


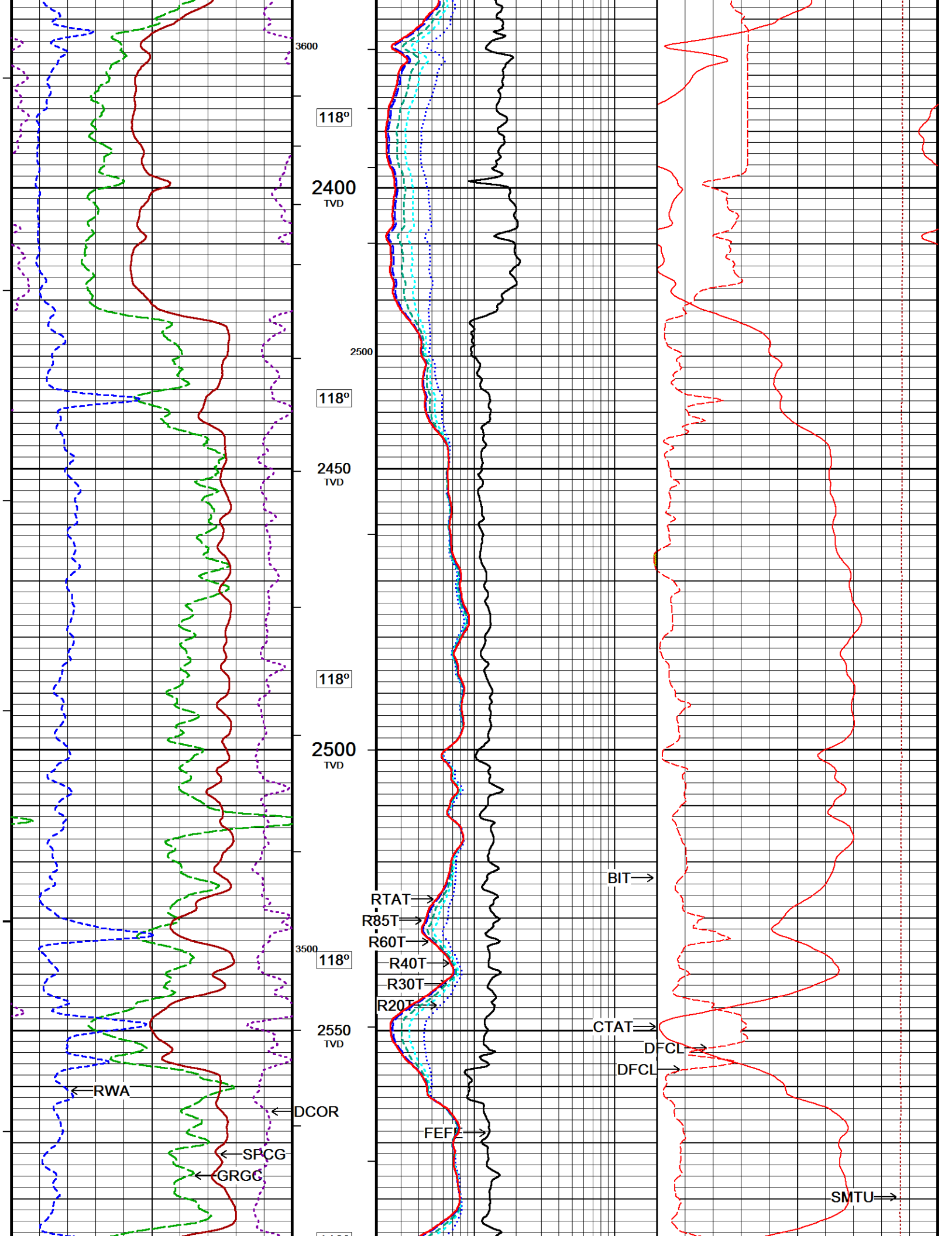


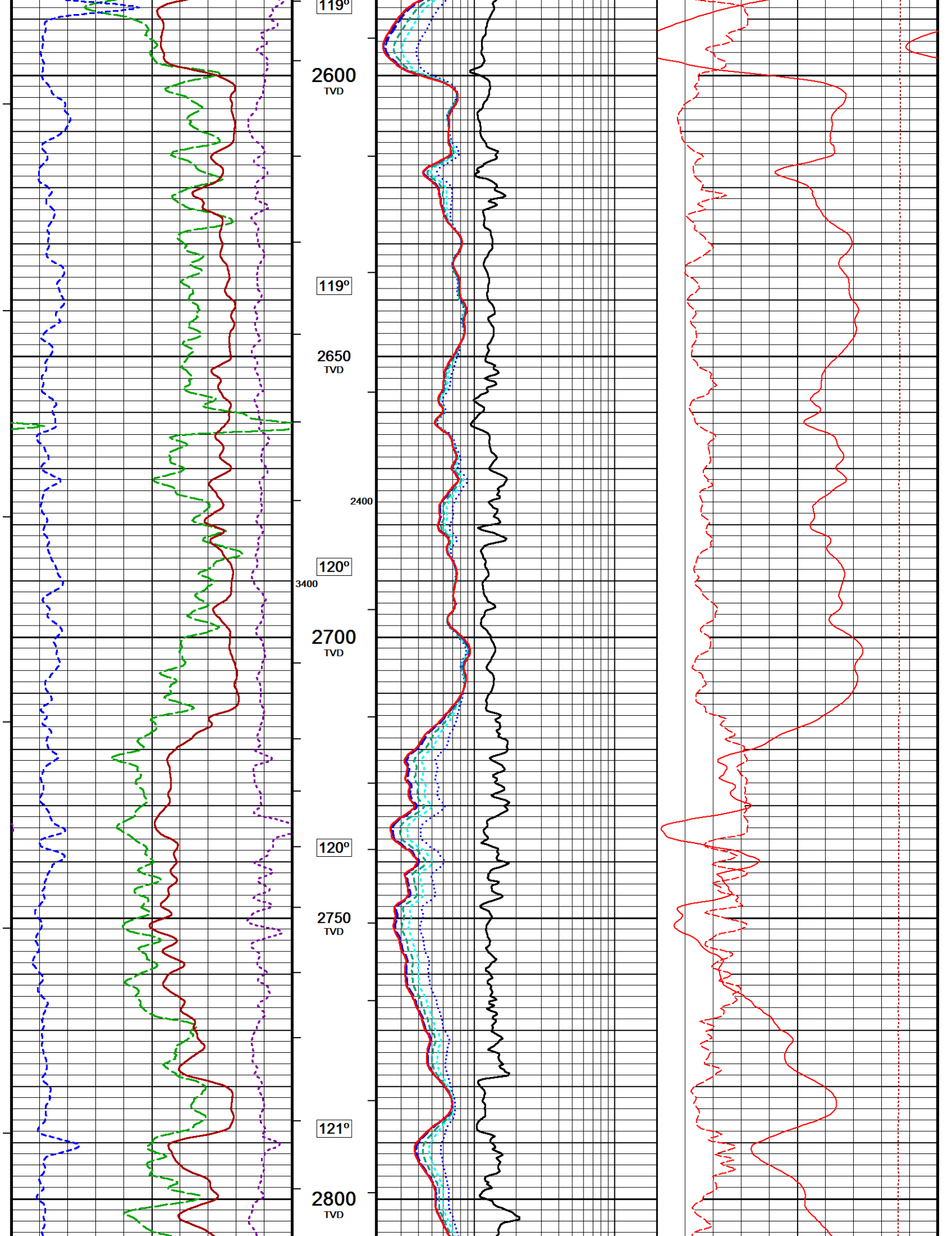


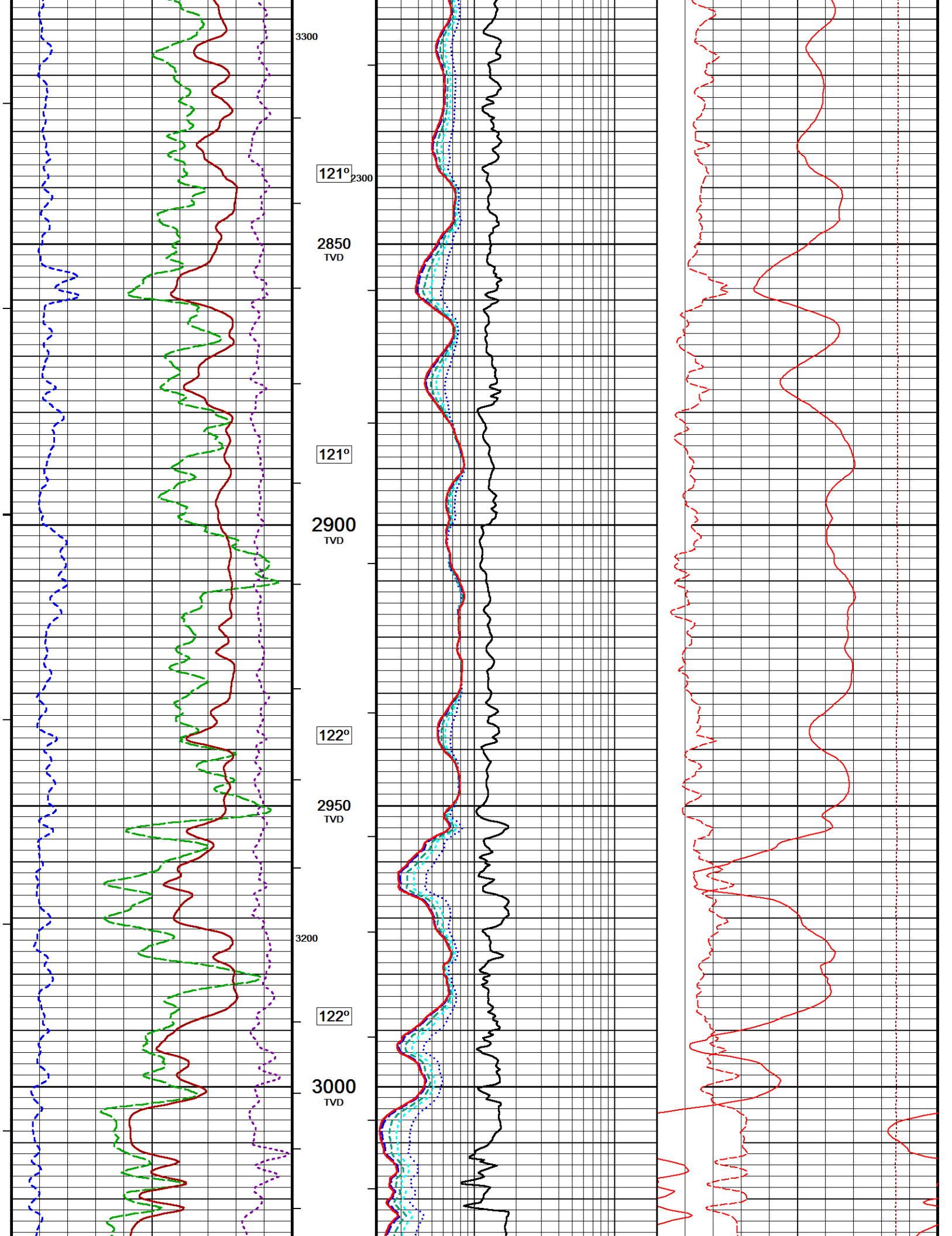


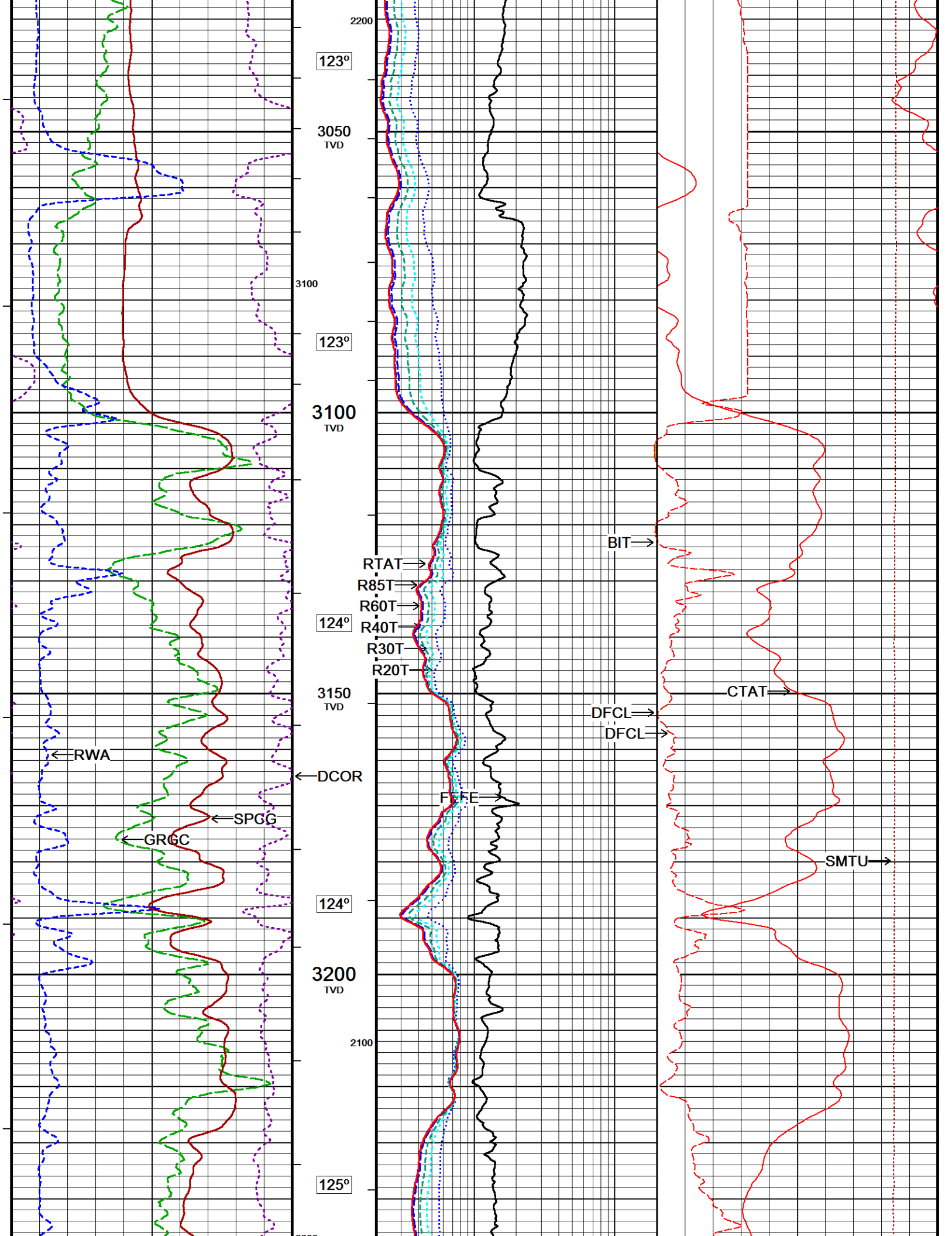


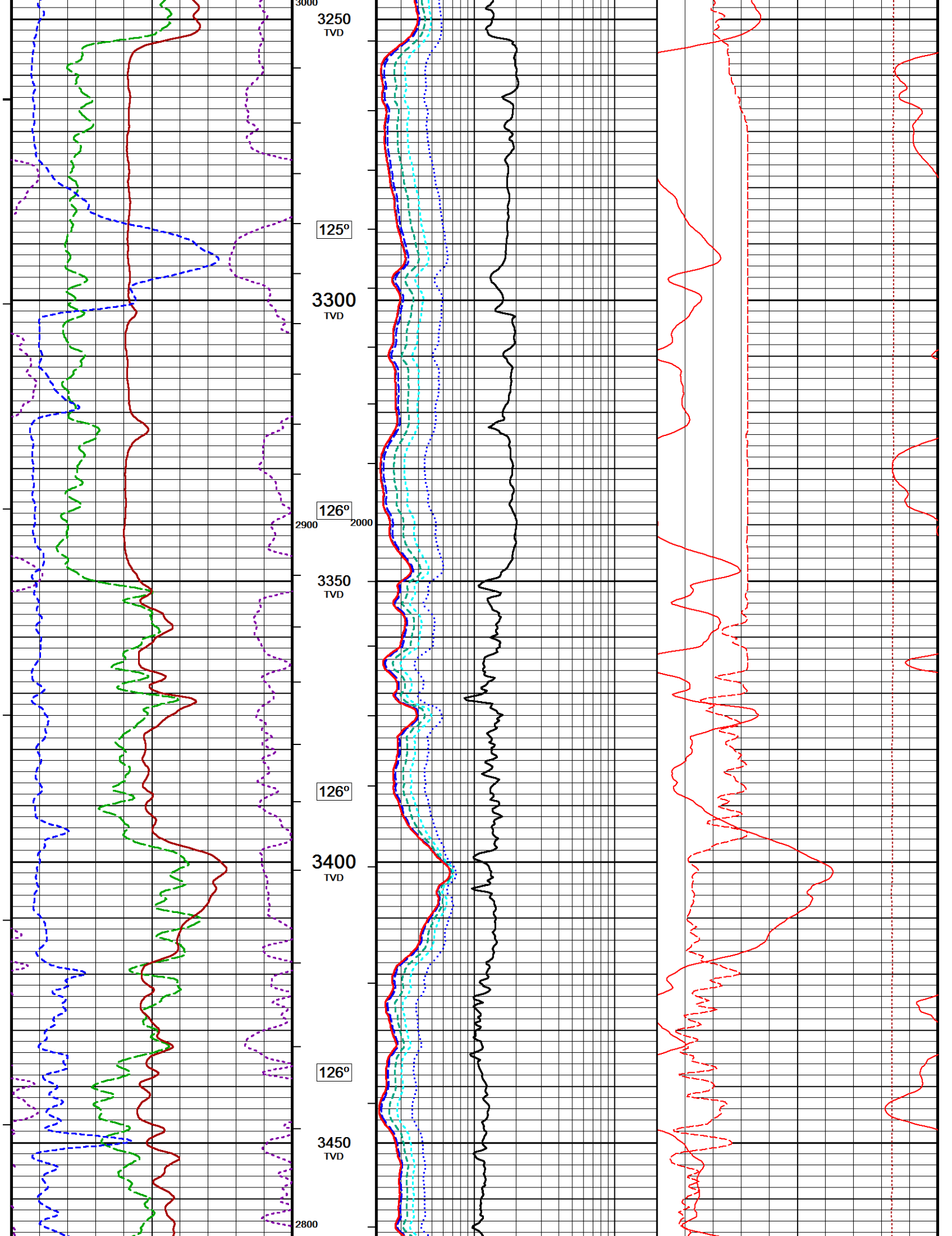


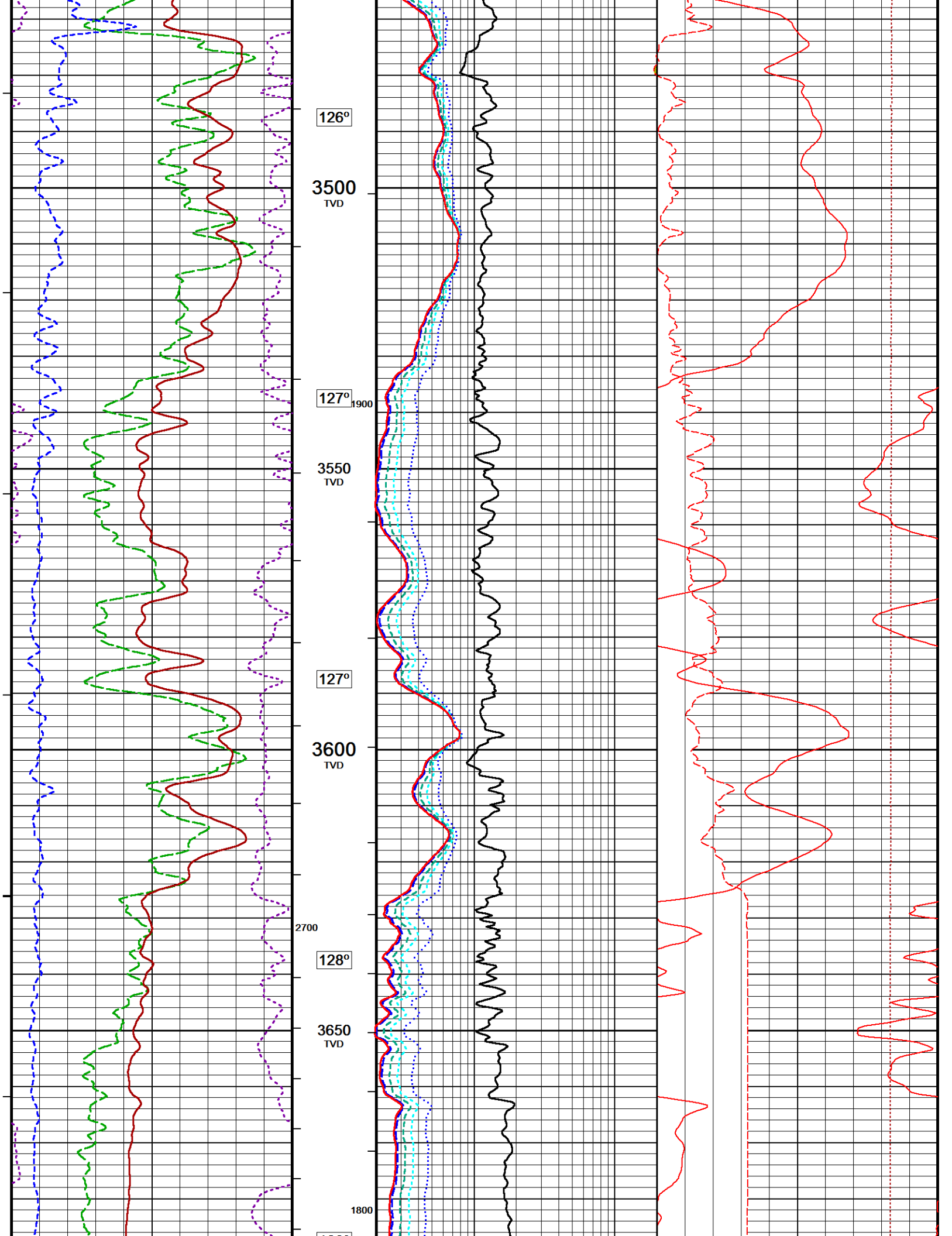


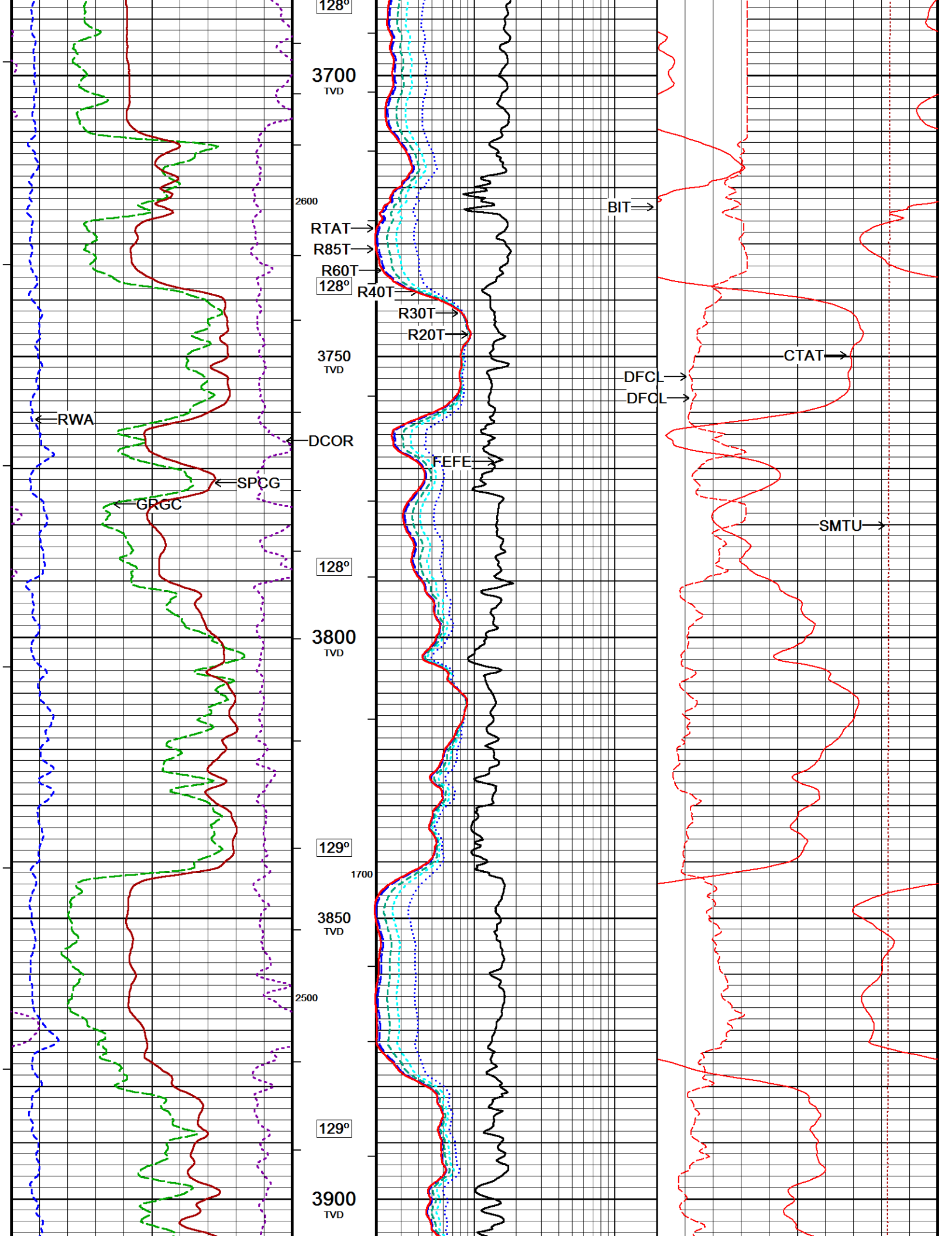


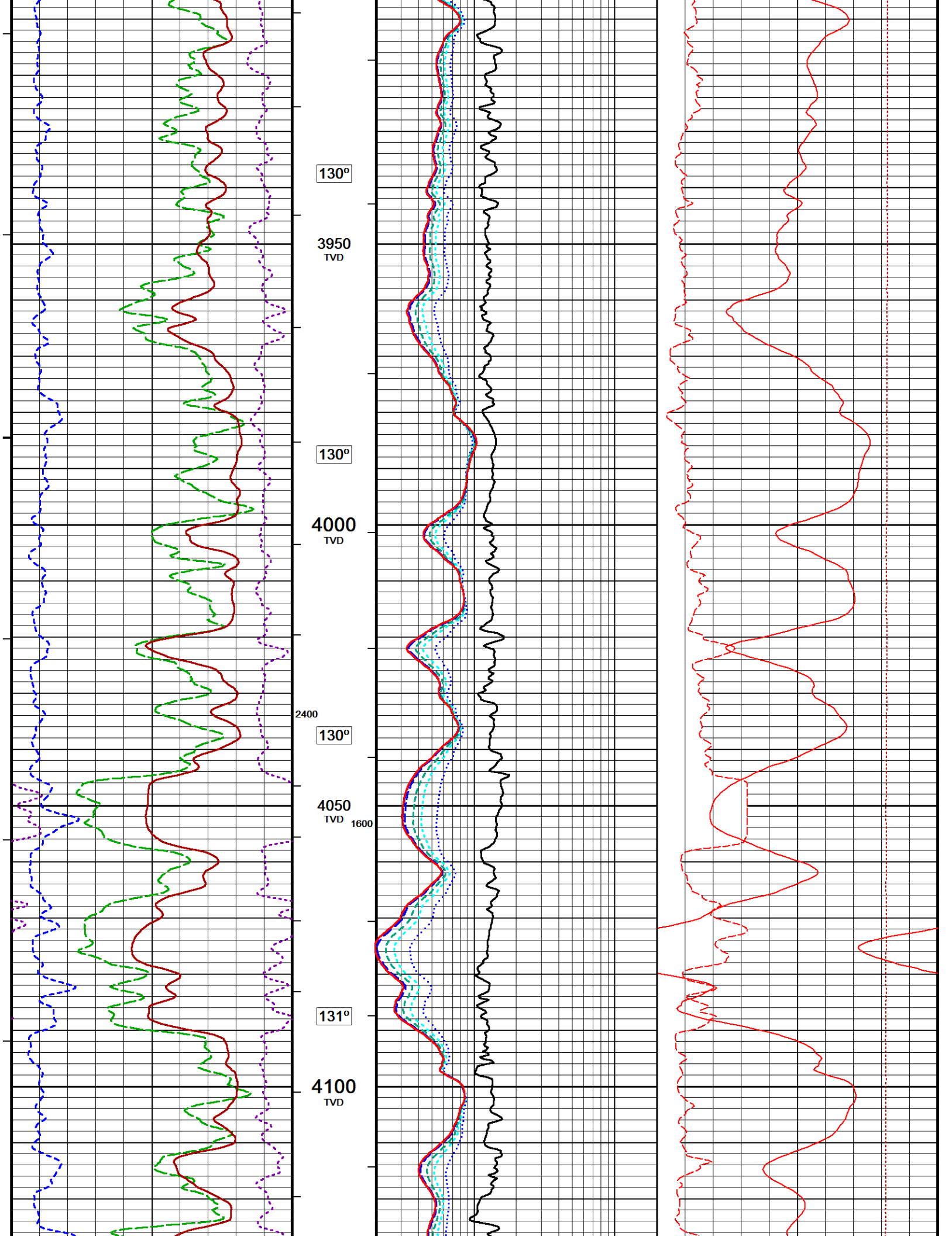


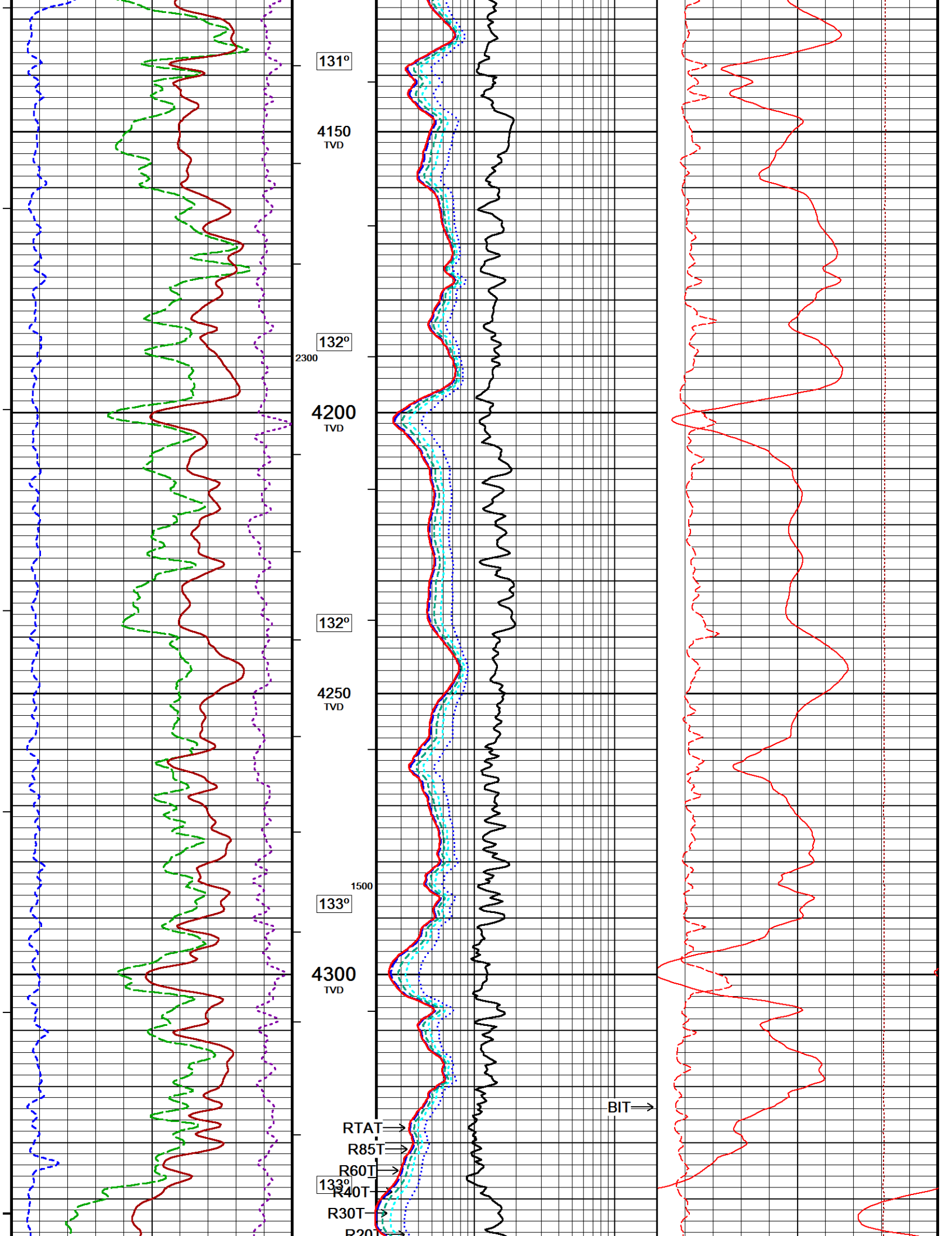


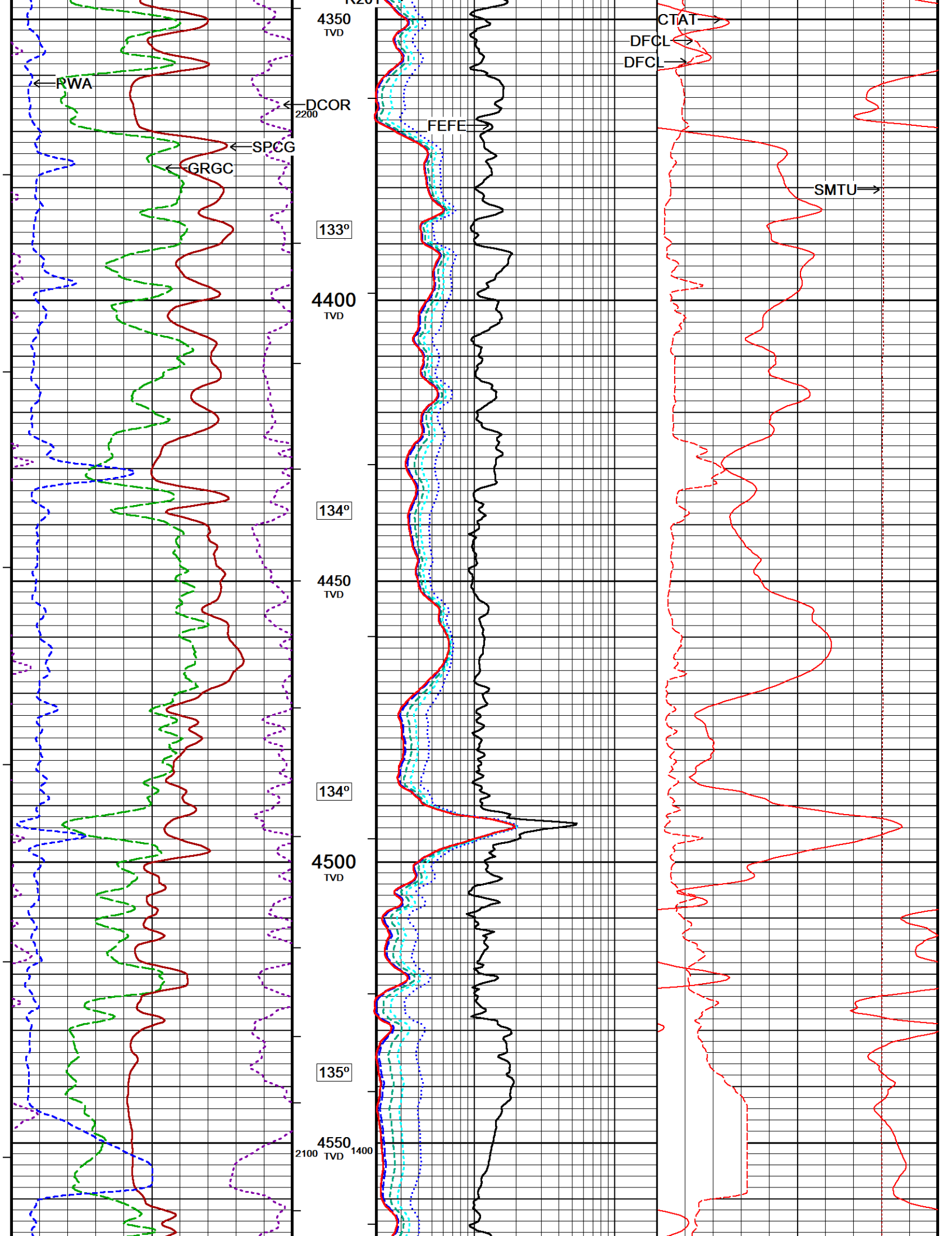


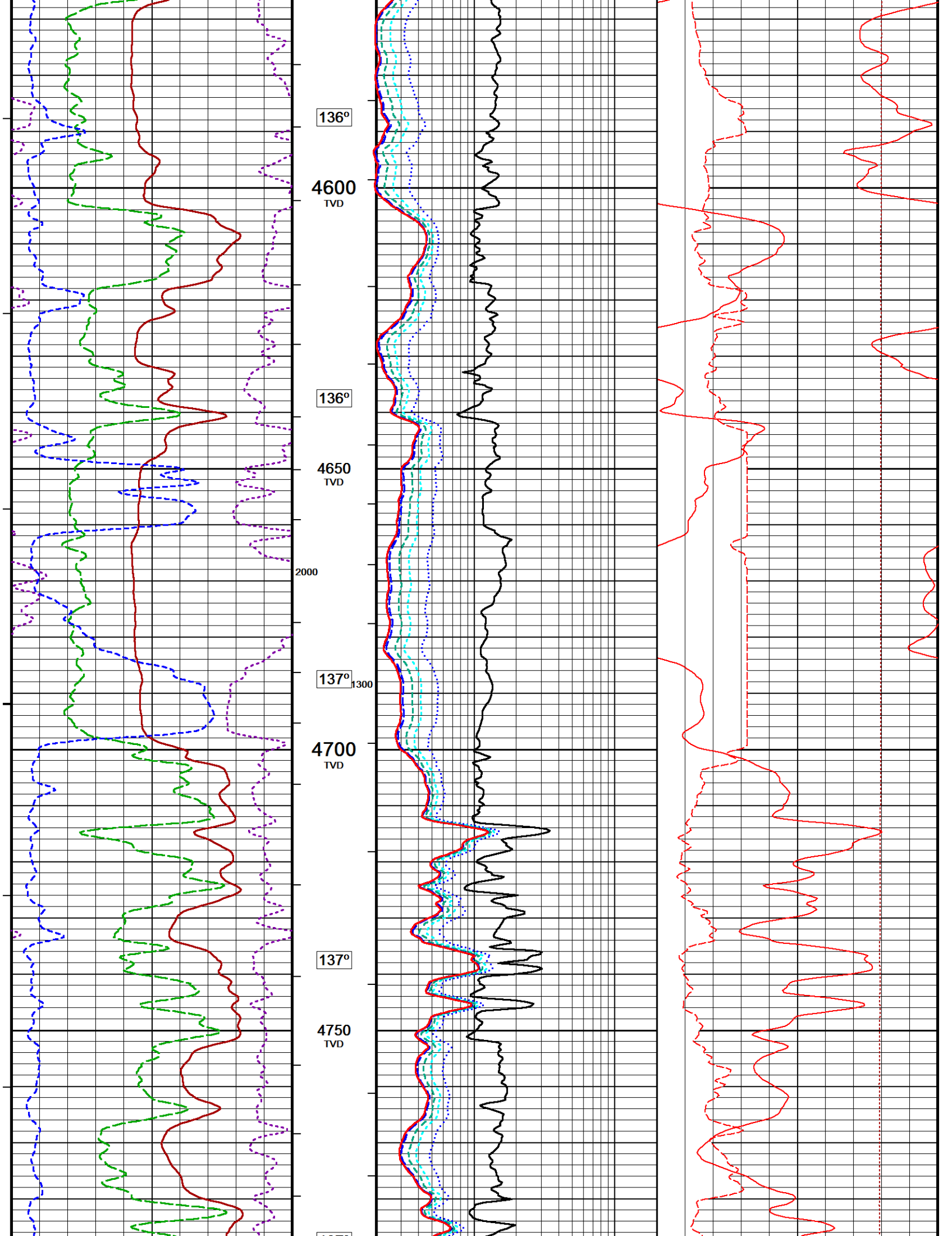


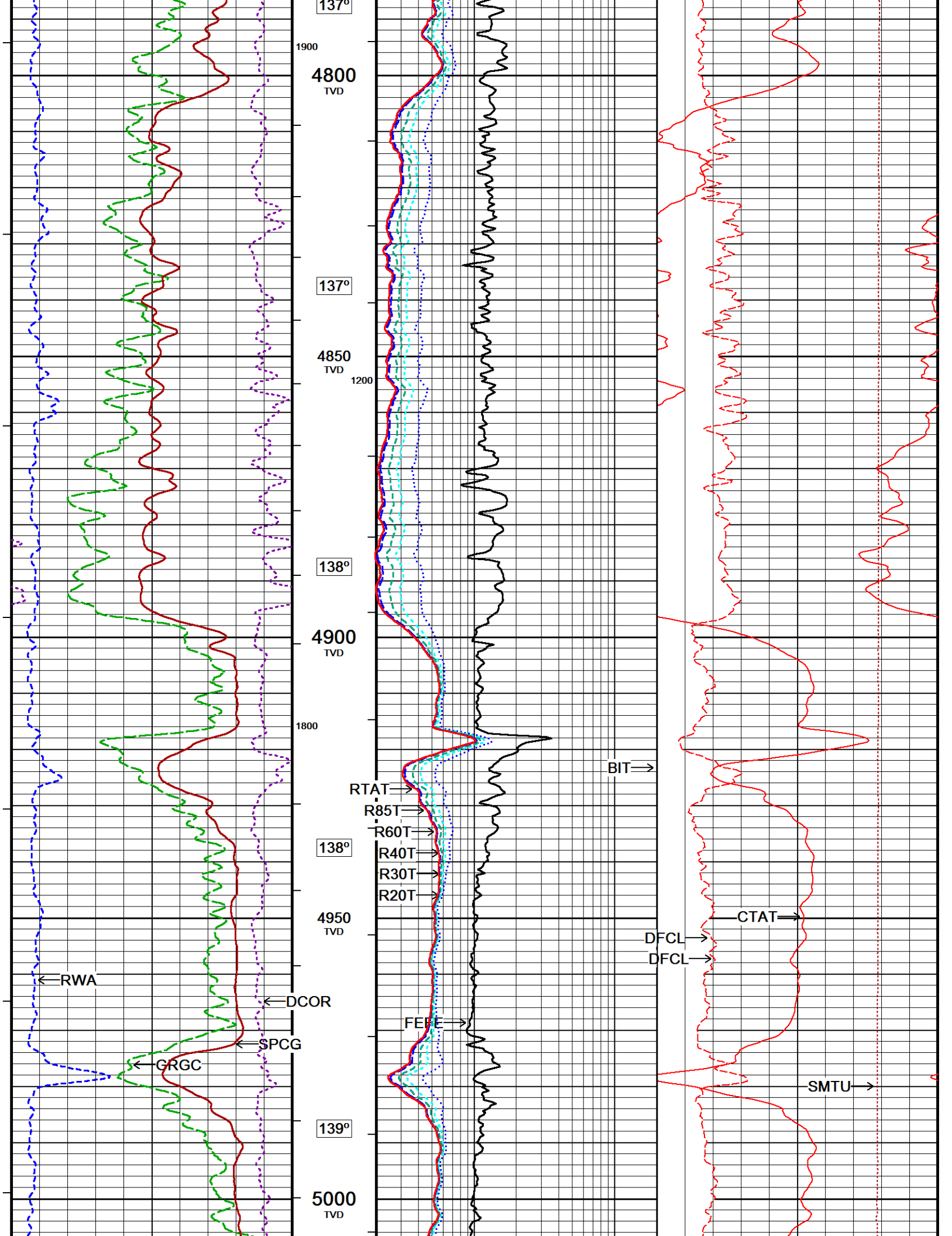


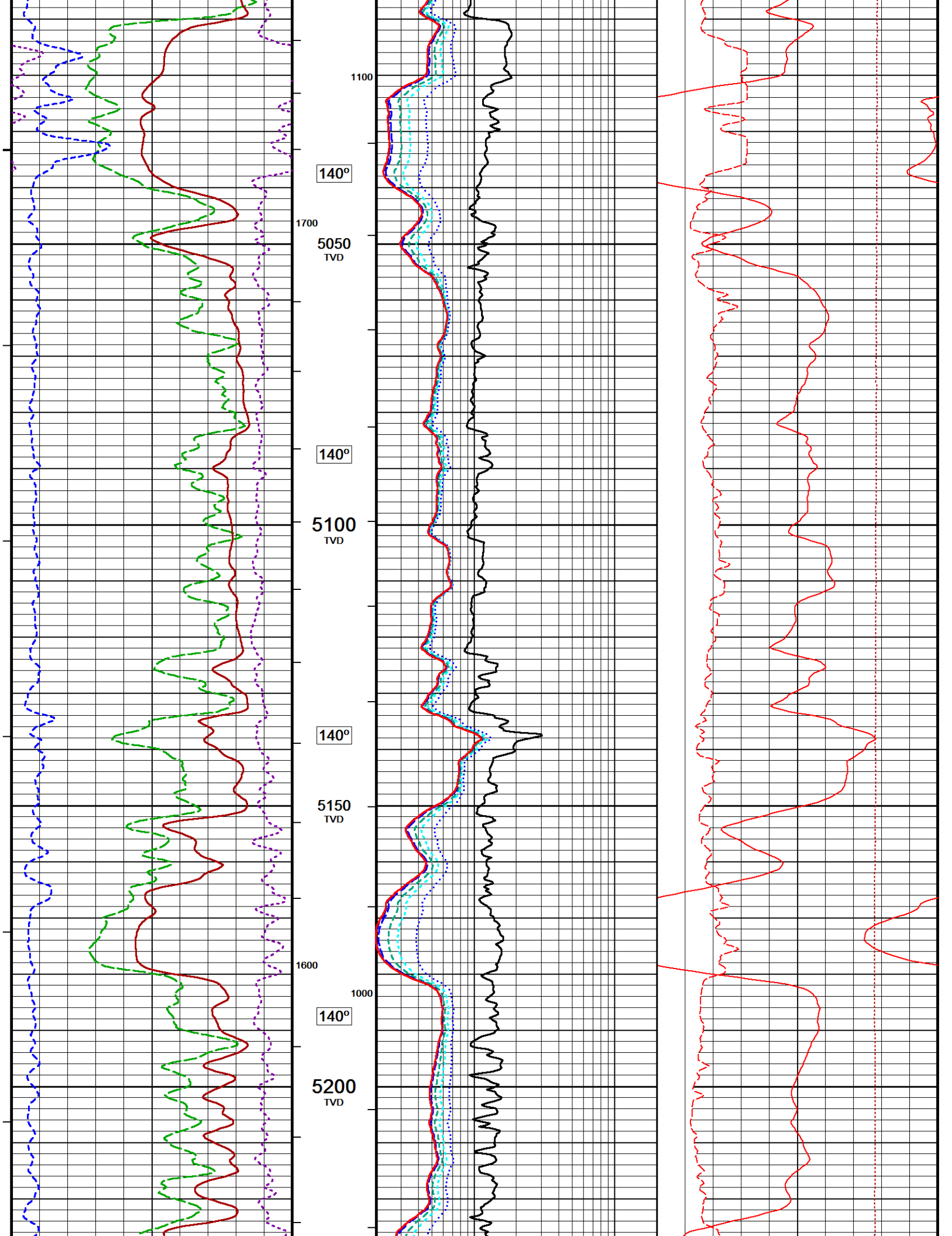


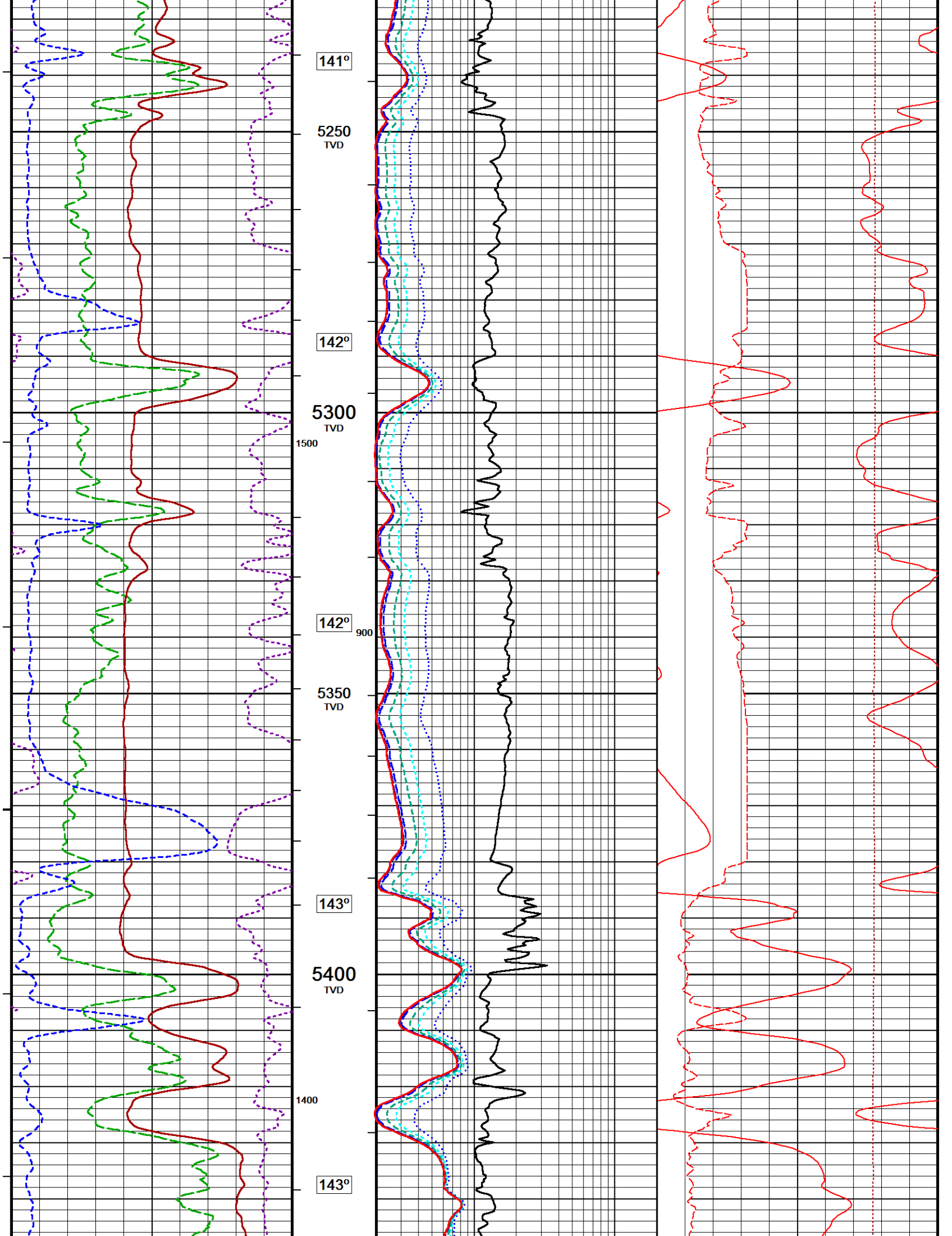


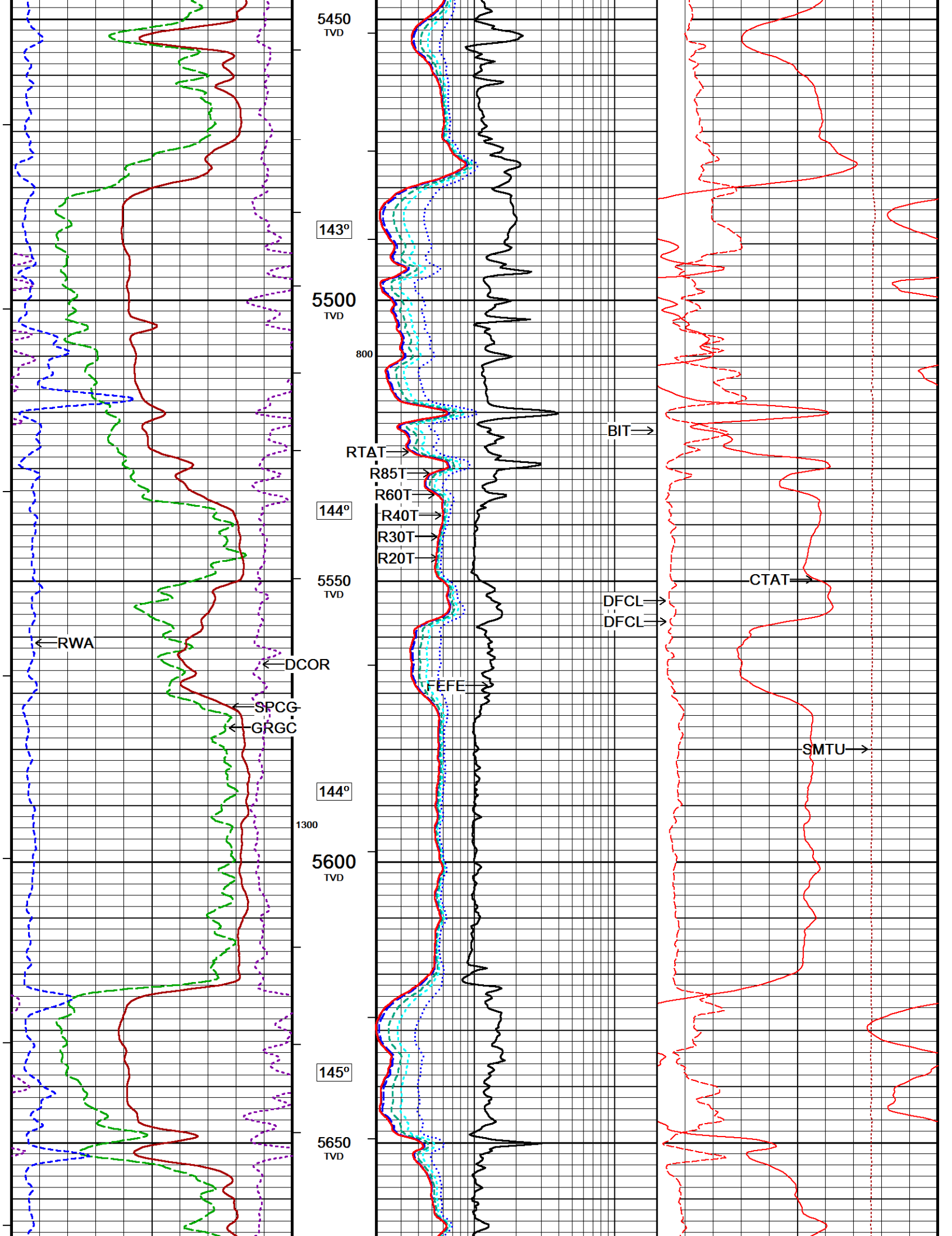


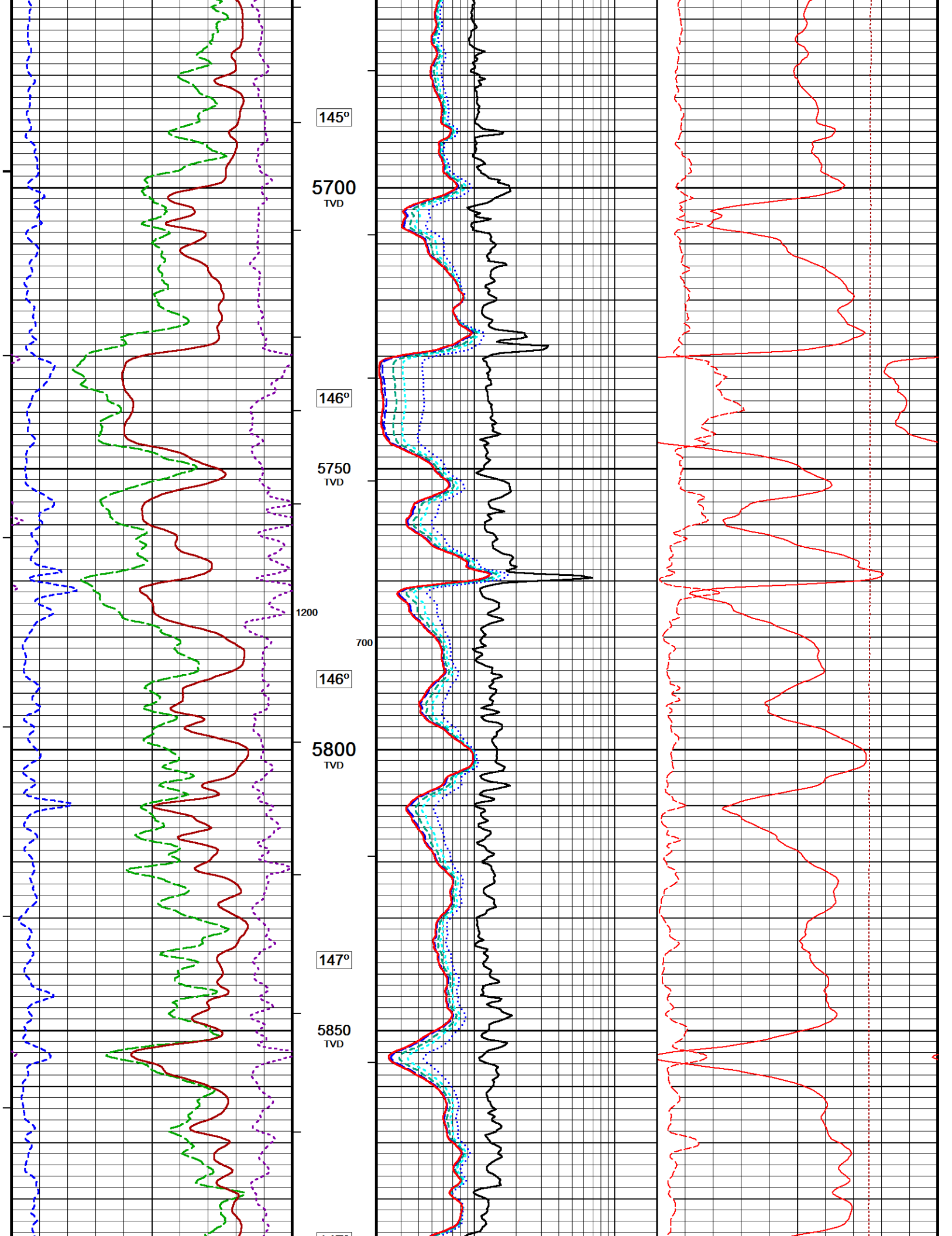


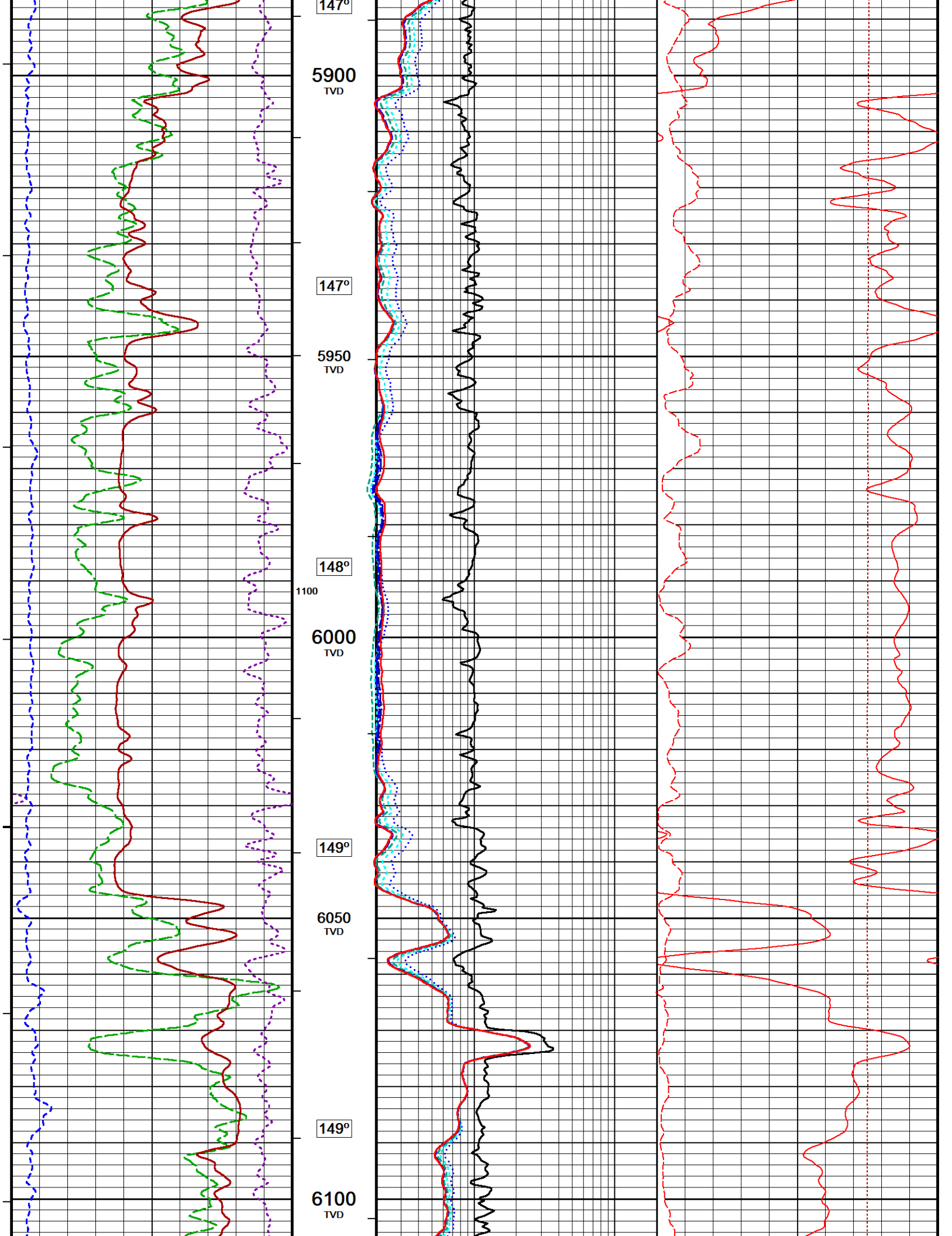


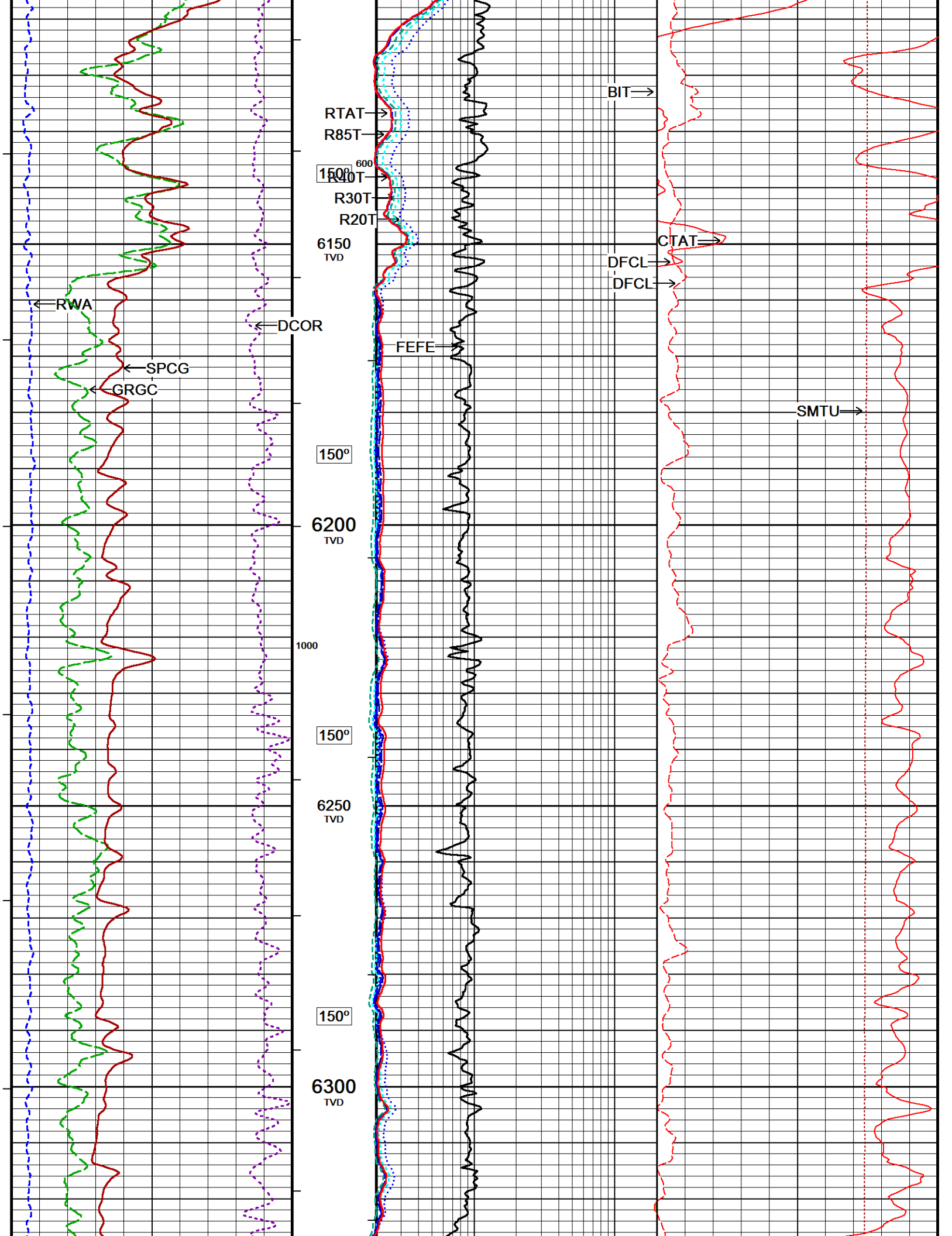


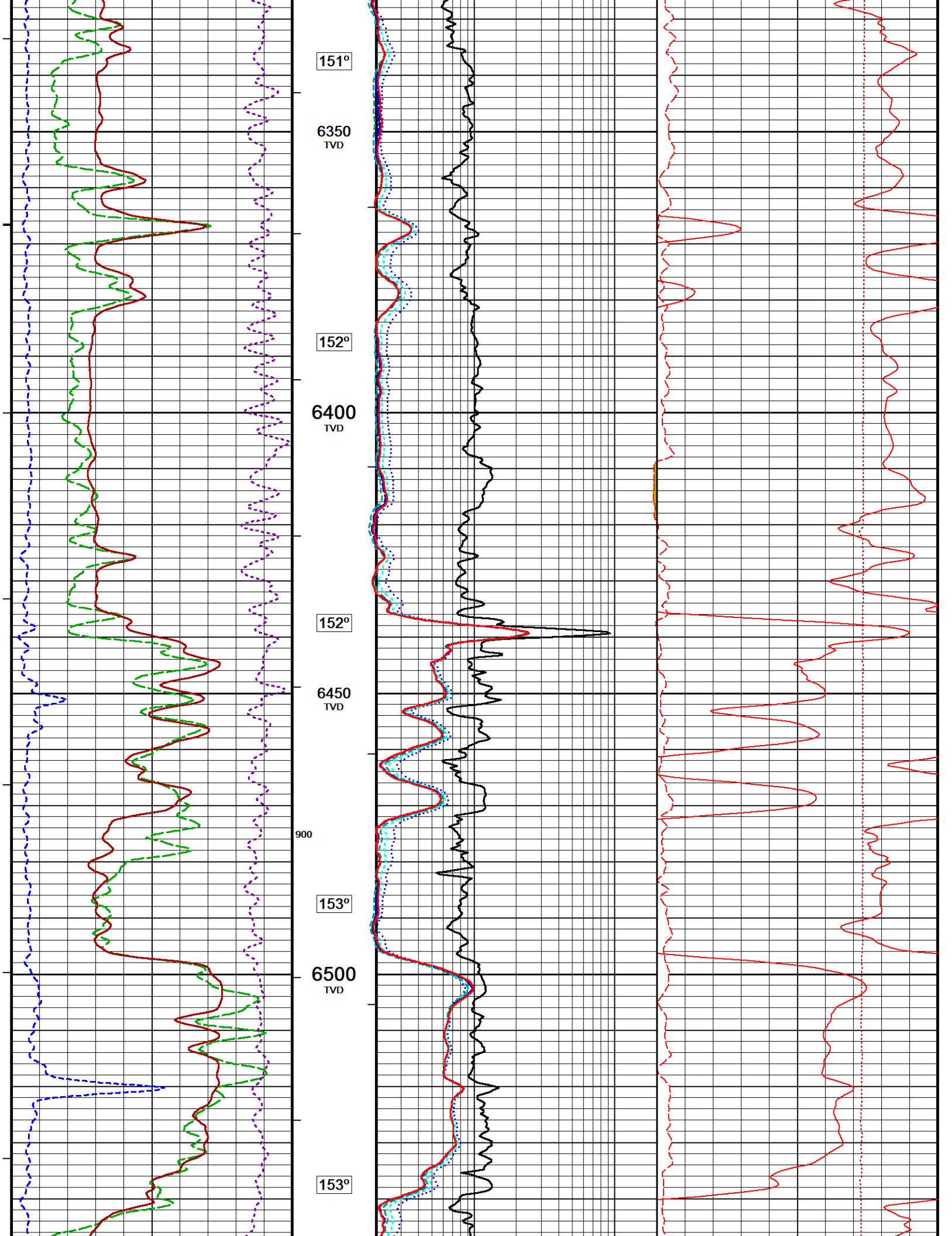


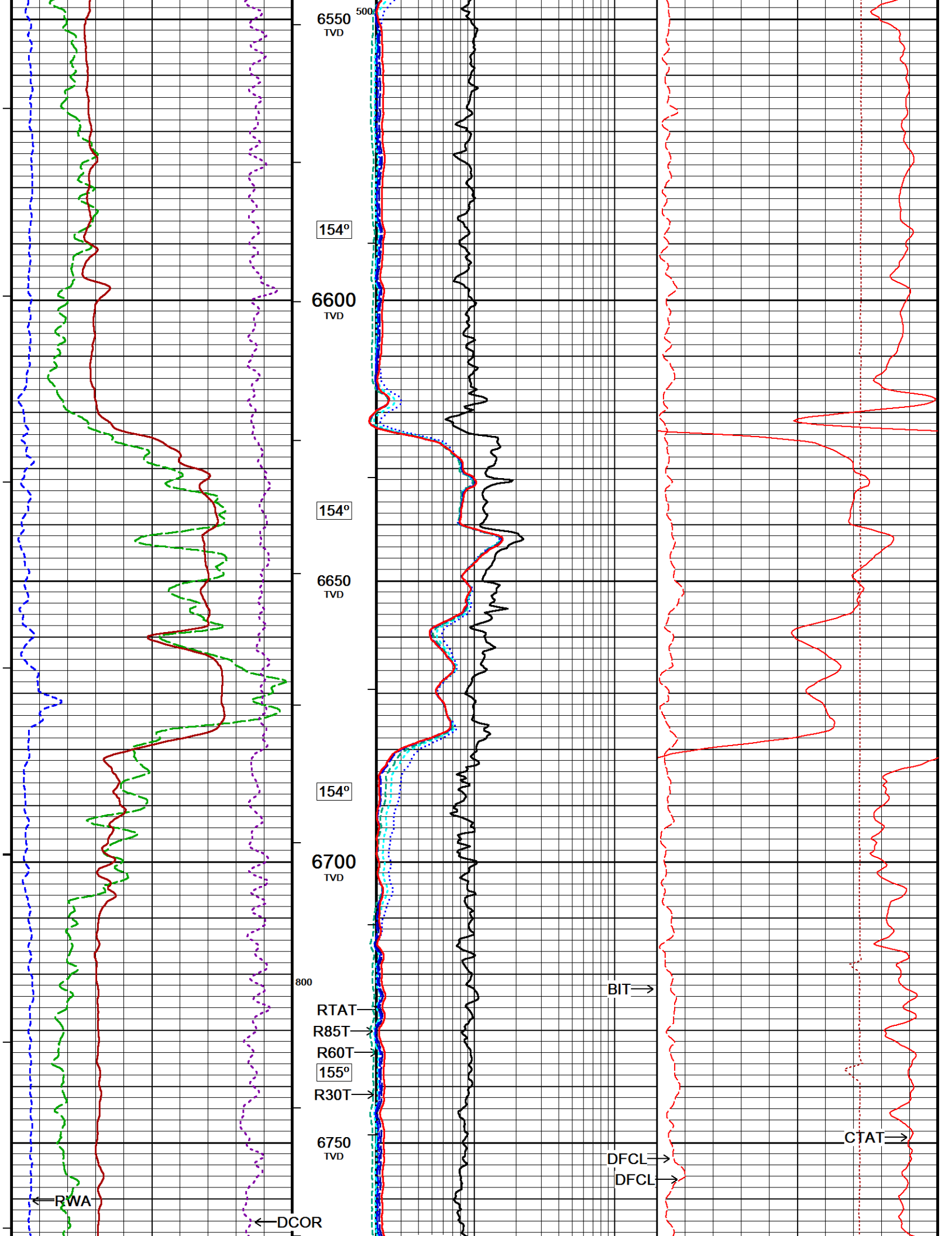


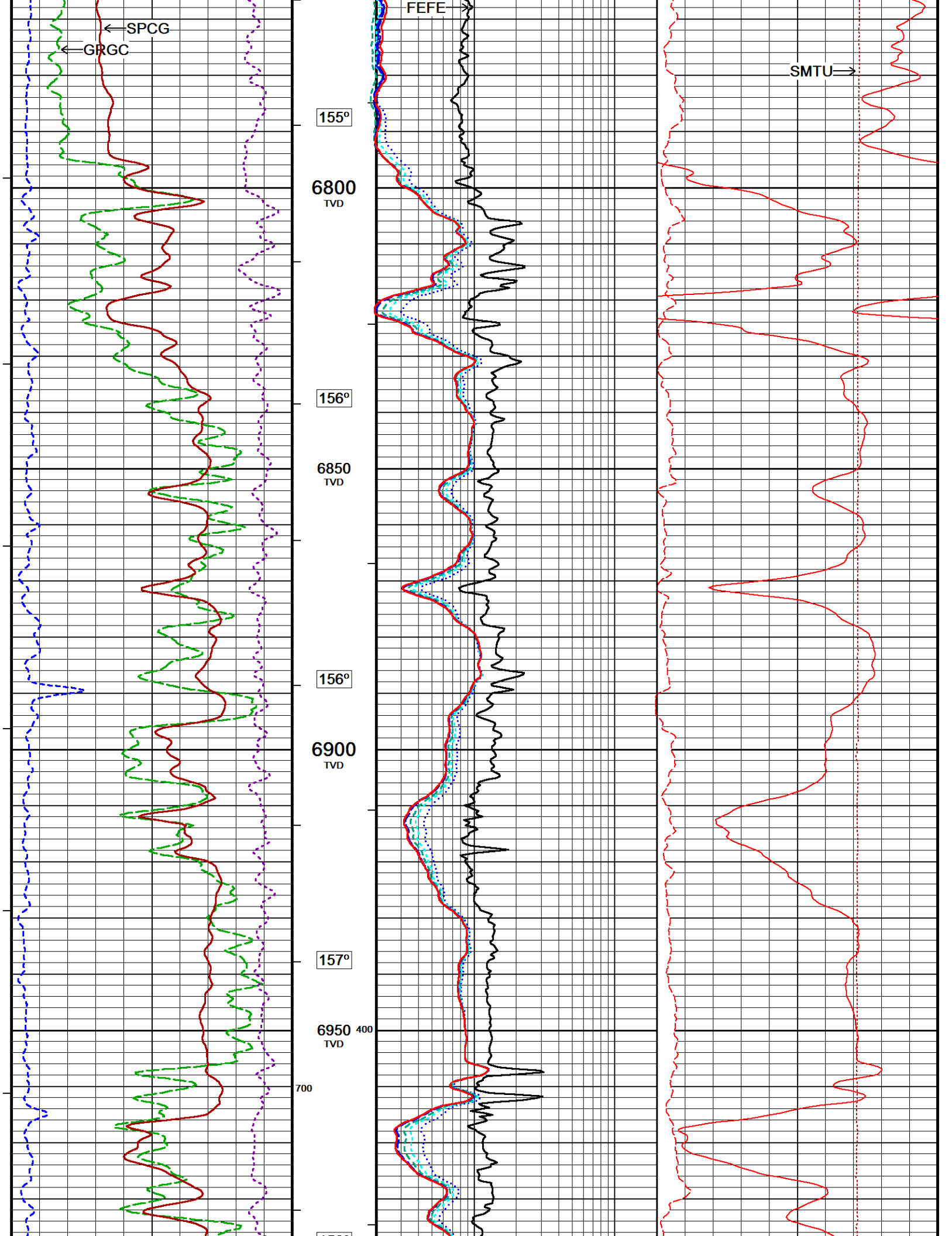


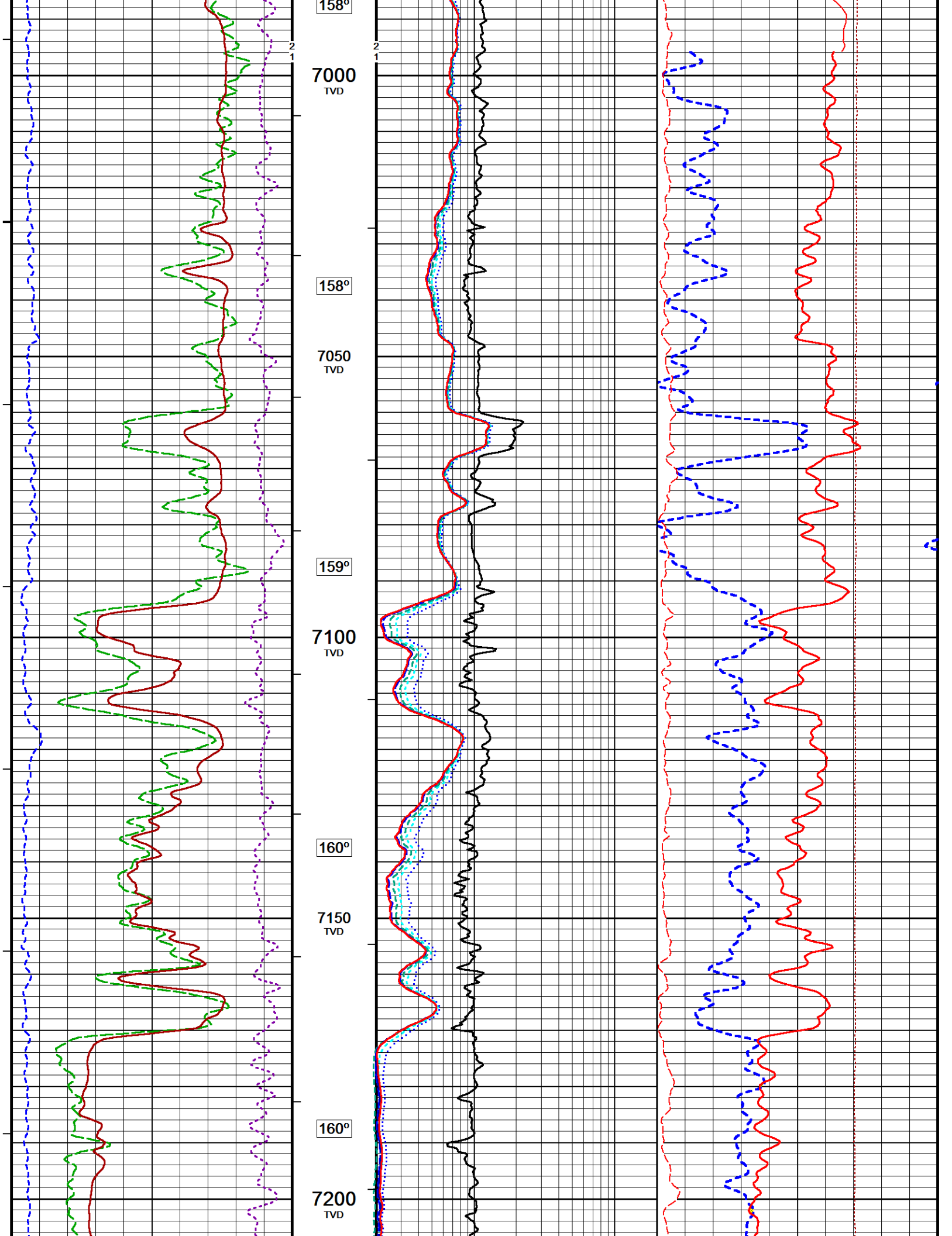


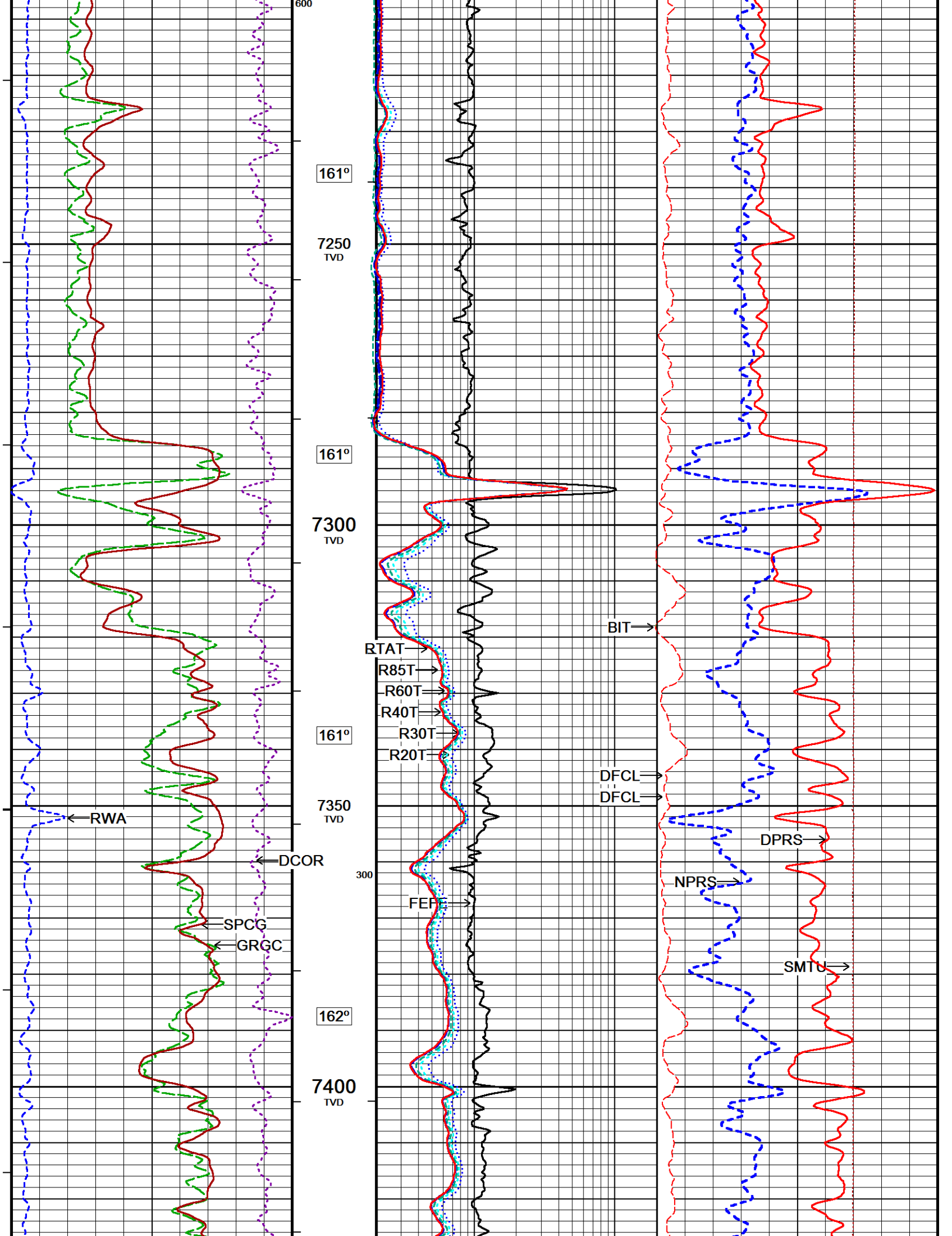


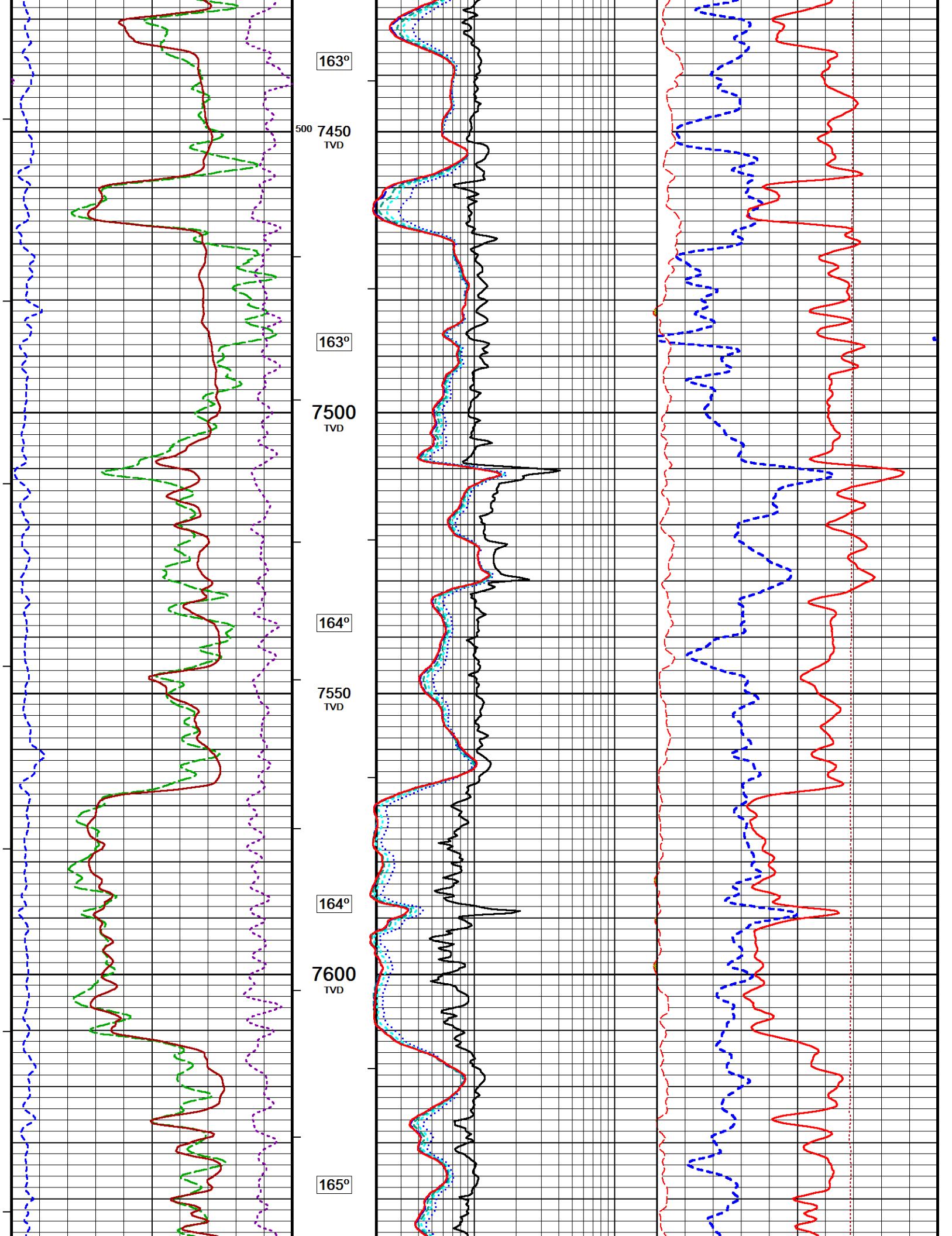


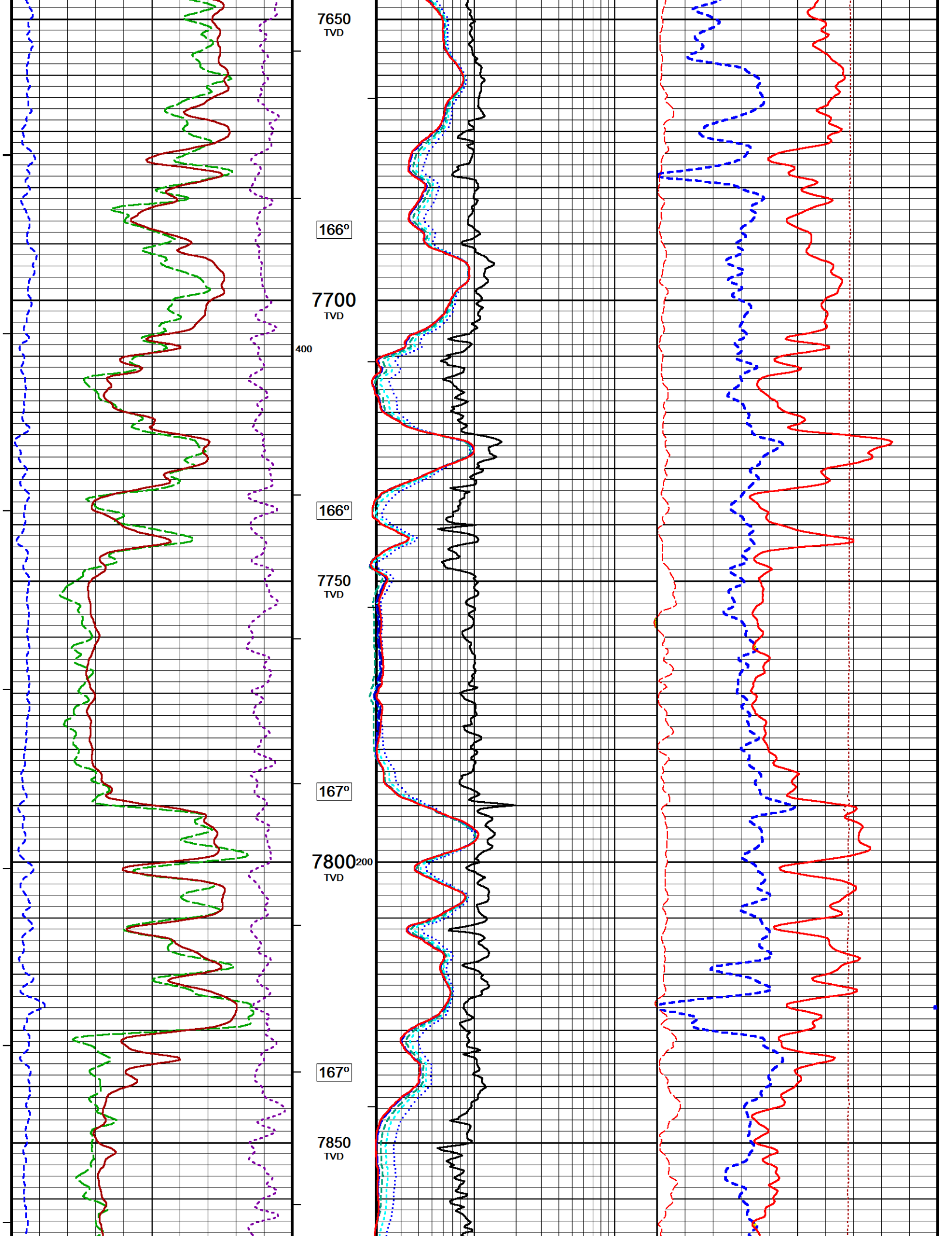


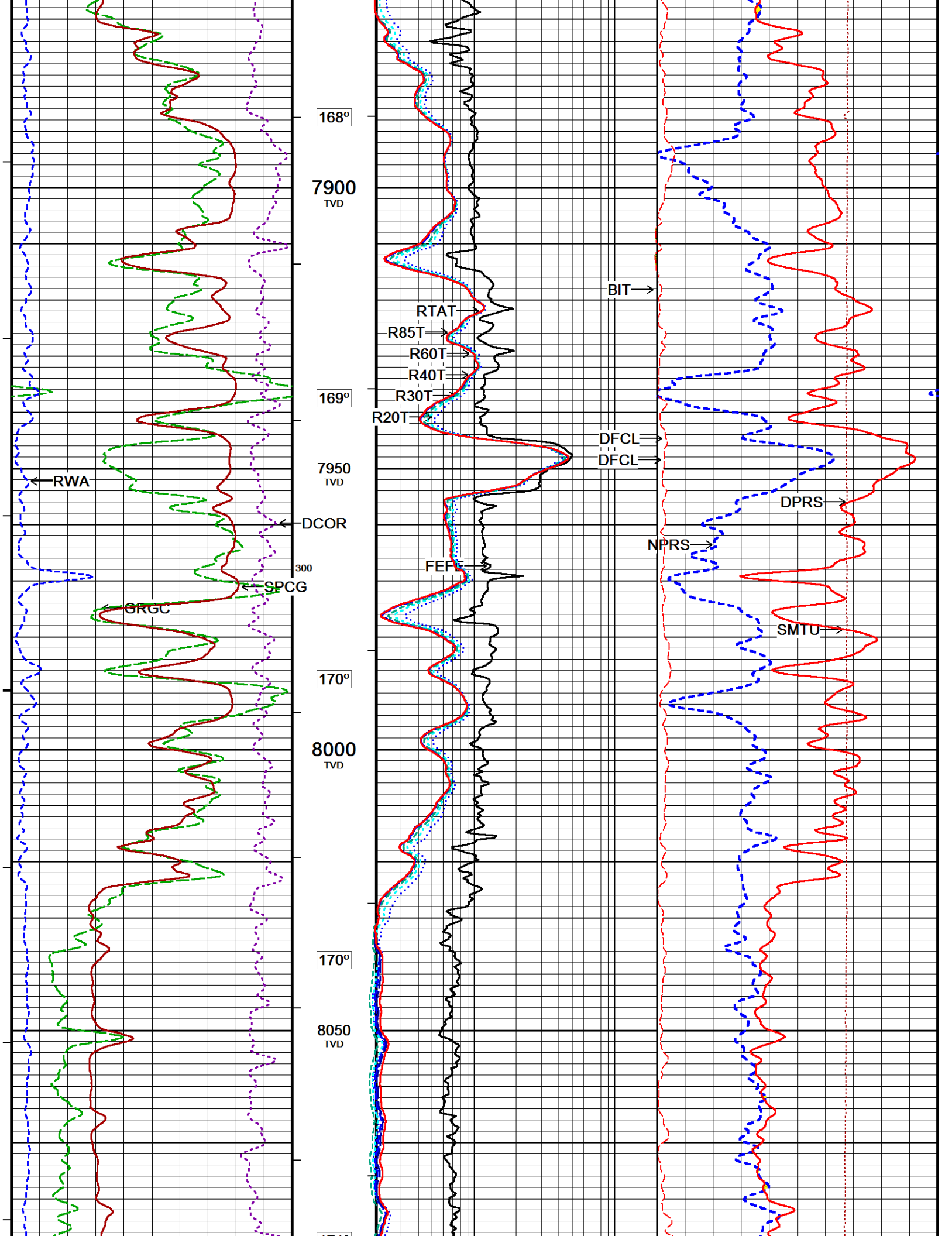


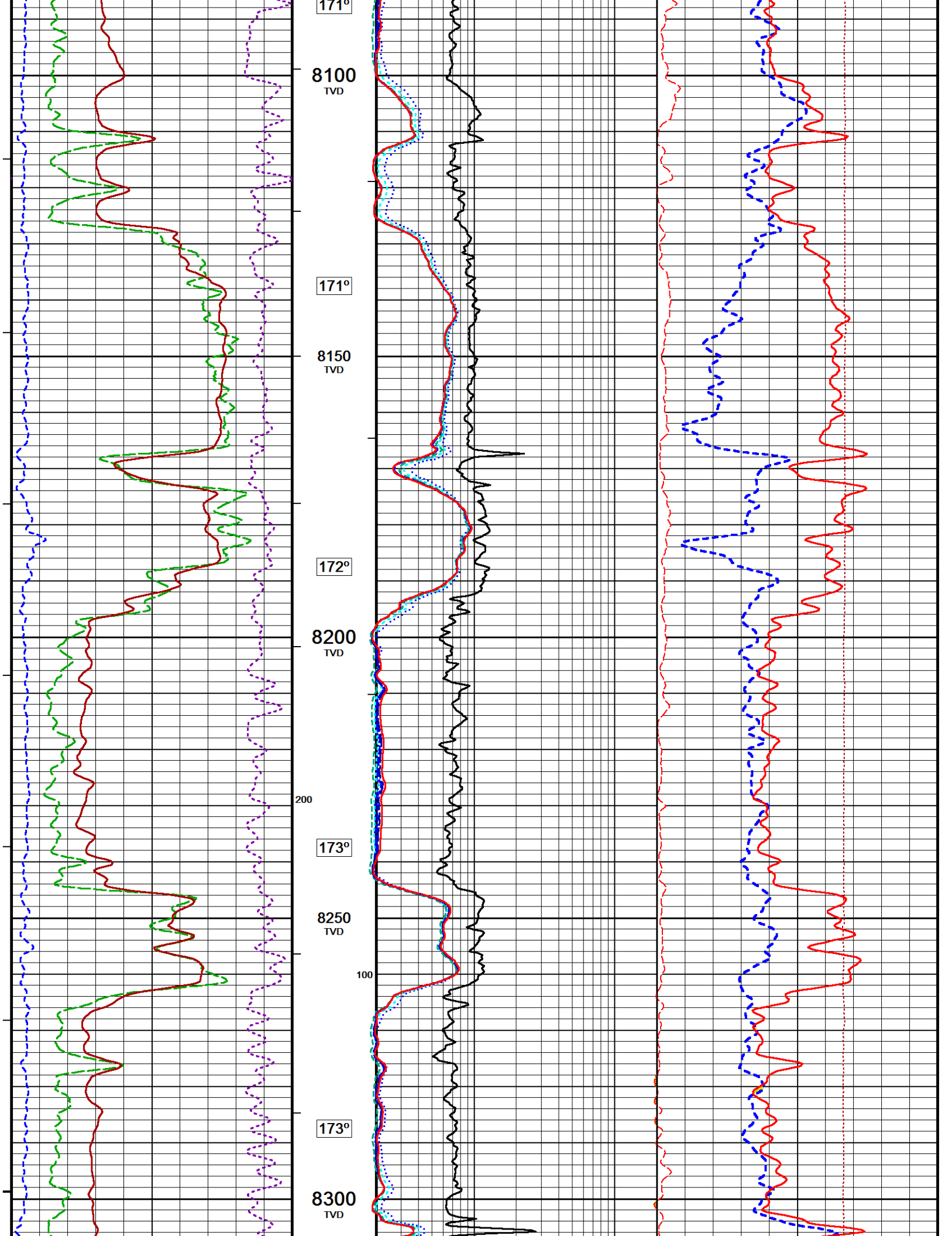


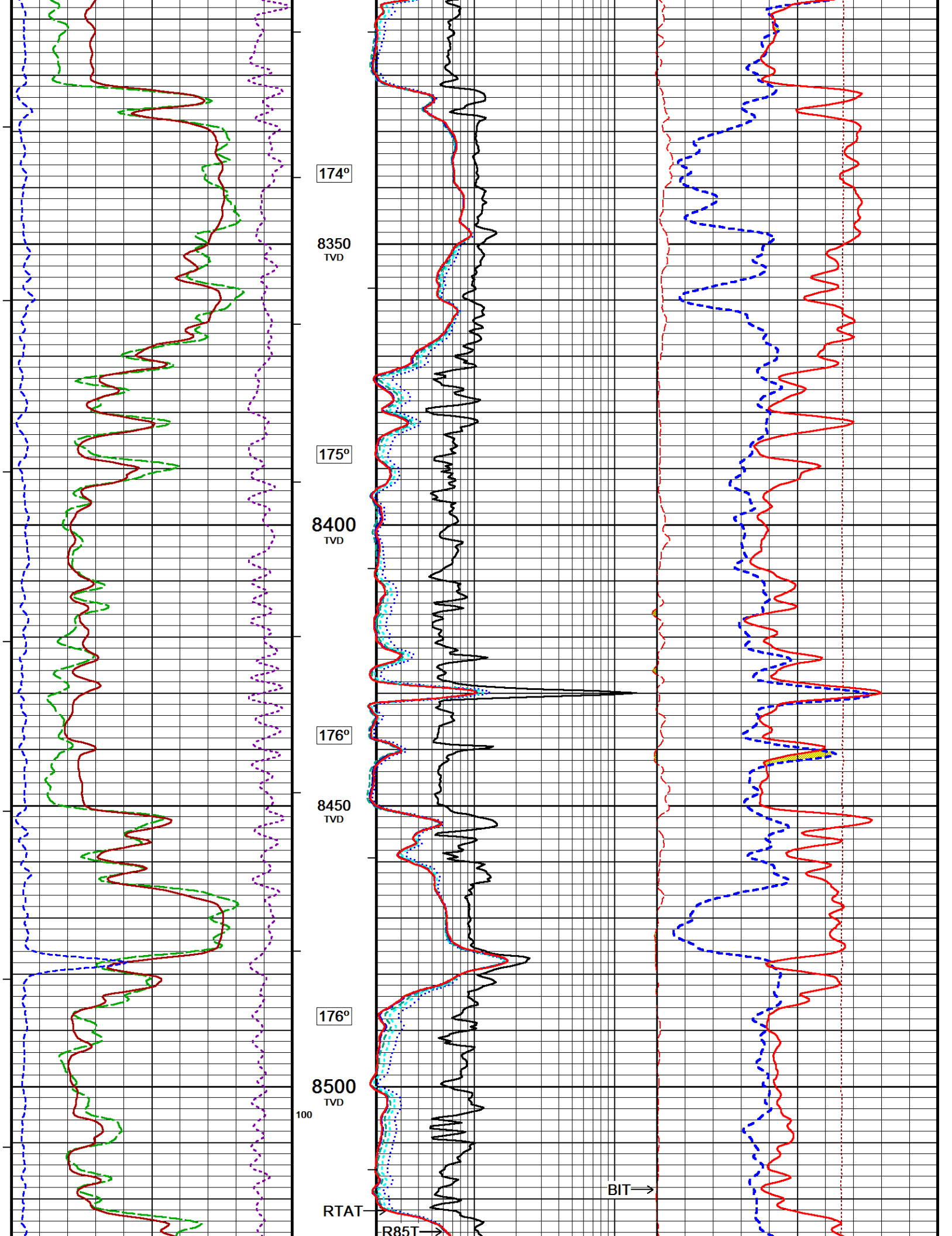


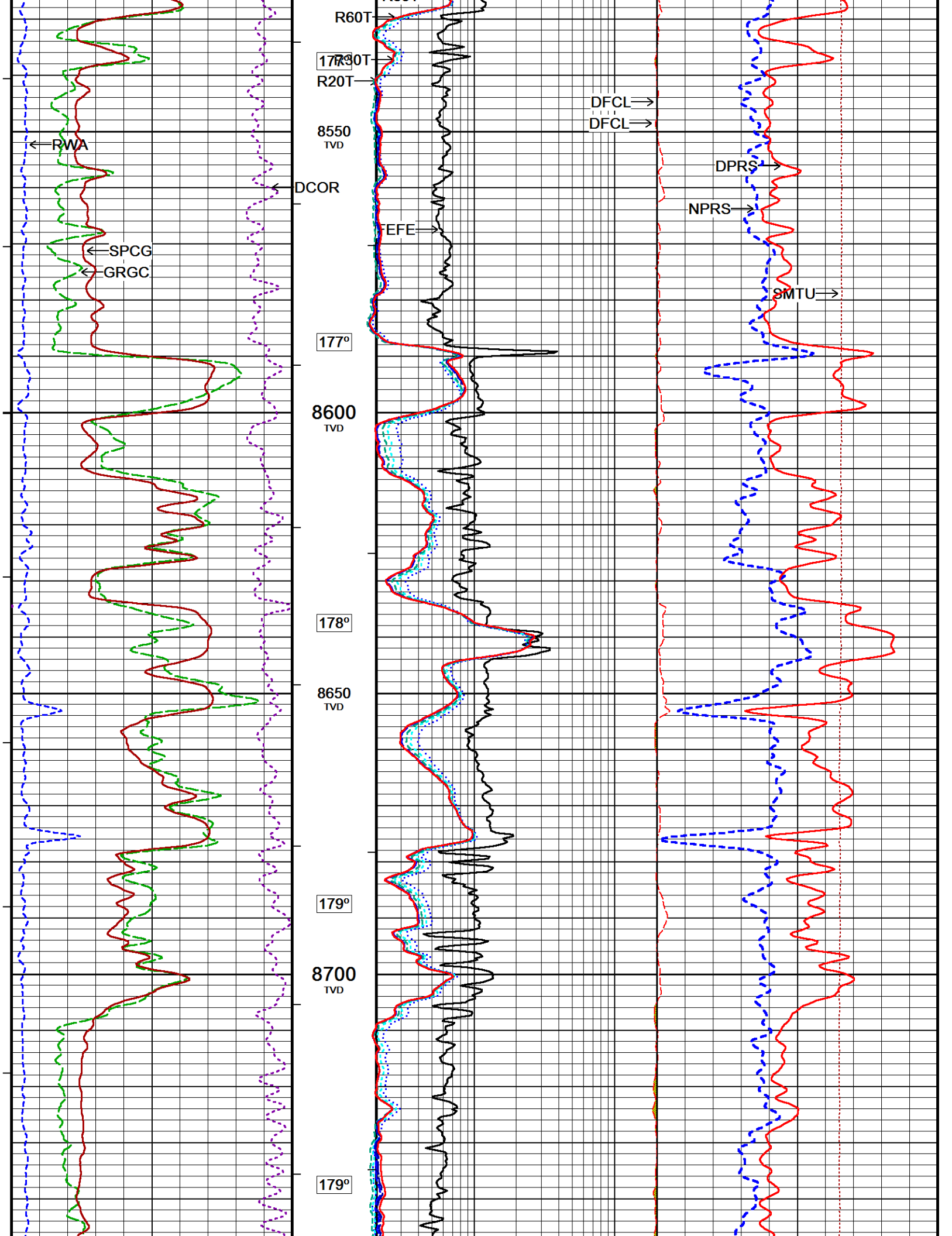


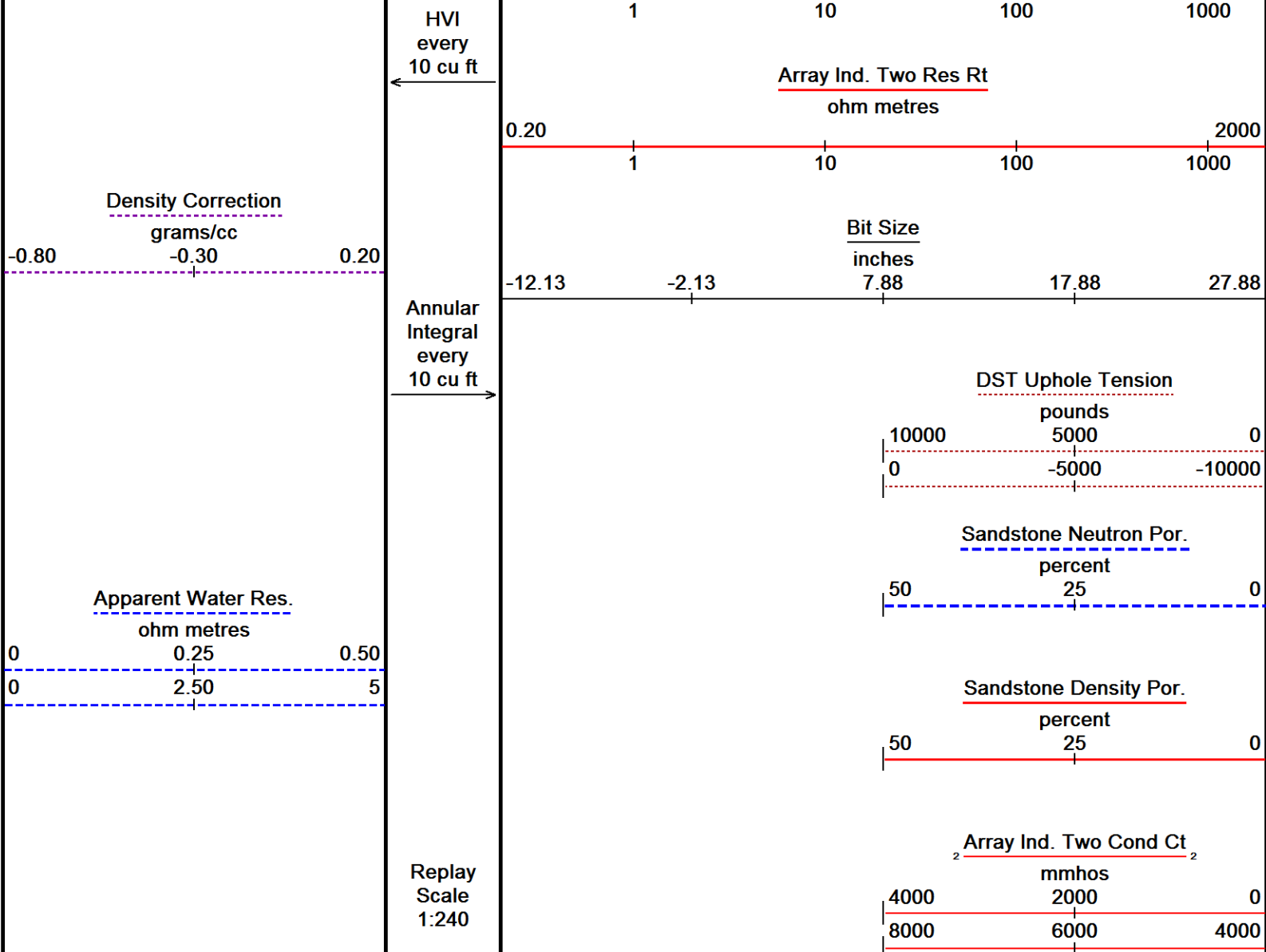












Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-JUL-2014 10:09
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↑ **FIVE INCH MAIN PASS TVD 1:240** ↑

TVD TABLE					
Last Edited: 29-JUL-2014 04:50					
Logged Depth	True Depth	Logged Depth	True Depth	Logged Depth	True Depth
feet	feet	feet	feet	feet	feet
1926.00	1925.98	5565.00	5563.79	7194.00	7190.82
2404.00	2403.97	5691.00	5689.71	7289.00	7285.70
2878.00	2877.93	5856.00	5854.28	7384.00	7380.57
3354.00	3353.90	5876.00	5874.27	7479.00	7475.48
3859.00	3858.87	6063.00	6061.22	7574.00	7570.43
4363.00	4362.76	6156.00	6154.22	7668.00	7664.39
4489.00	4488.68	6251.00	6249.21	7764.00	7760.35
4615.00	4614.54	6344.00	6342.17	7859.00	7855.31
4741.00	4740.34	6439.00	6437.05	7954.00	7950.27
4836.00	4835.22	6533.00	6530.87	8049.00	8045.22
4931.00	4930.13	6628.00	6625.69	8226.00	8222.17
5026.00	5025.06	6722.00	6719.54	8416.00	8412.13
5122.00	5121.01	6816.00	6813.38	8699.00	8695.11
5216.00	5214.96	6909.00	6906.21	8804.00	8800.10
5312.00	5310.91	7004.00	7001.07		
5438.00	5436.85	7099.00	7095.96		

BEFORE SURVEY CALIBRATION

C:\Data\13.08\Smith Production Co\Vue Lena Abshire Meaux Etal #1\Smith Production_Vue Lena Abshire Meaux Etal #2.dta

General Constants All 000 Last Edited on 29-JUL-2014,02:49

General Parameters

Mud Resistivity	0.800	ohm-metres
Mud Resistivity Temperature	71.000	degrees F
Water Level	0.000	feet
Borehole Fluid Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method	Single Caliper	
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	Base Density Porosity
Resistivity used	Array Ind. Two Res Rt
RWA Constant A	0.620
RWA Constant M	2.150
SW/APOR Tool Source	0.000

High Resolution Temperature Calibration MCG-D.A 241 Field Calibration on 24-MAY-2013,08:58

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-D.A 241 Last Edited on 12-OCT-2013,14:29

Pre-filter Length 11

Gamma Calibration MCG-D.A 241 Field Calibration on 29-JUL-2014,02:32

	Measured	Calibrated (API)
Background	33	22
Calibrator (Gross)	1166	786
Calibrator (Net)	1133	764

Gamma Constants MCG-D.A 241 Last Edited on 29-JUL-2014,02:32

Gamma Calibrator Number	GRC-039	
Mud Density	1.15	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

Neutron Calibration MDN-B.A 221 Base Calibration on 11-JUN-2014 13:51
Field Check on 29-JUL-2014,02:33

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	2901	88	3714	110
	32.885		33.764	

Field Calibrator at Base

	Calibrated (cps)	
Ratio	1386	2047
	0.677	

Field Check

	Calibrated (cps)	
Ratio	1370	2056
	0.667	

Neutron Constants MDN-B.A 221 Last Edited on 29-JUL-2014,02:33

Neutron Source Id	PN-514
Neutron Jig Number	5822NE
Air Hole Processing	Modified Ratio

Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.00	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	7.00	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	None		
Formation Pressure	N/A	kpsi	
Temperature Source	None		
Temperature	N/A	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	N/A	kppm	
Barite Mud Correction	Not Applied		

FE Calibration MFE-A.A 137

Base Calibration on 02-JUN-2014 10:47
Field Check on 29-JUL-2014 02:44

Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	961.3	126.8	
Base Check		281.5	
Field Check		281.1	

FE Constants MFE-A.A 137

Last Edited on 29-JUL-2014,02:43

Running Mode	No Sleeve		
MFE K Factor	0.1268		
Caliper Source for FE correction	Density Caliper		
Caliper Value for FE correction	N/A	inches	
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	0.5	inches	

Induction Calibration MAI-A.A 77

Base Calibration on 11-MAY-2011,11:42
Field Check on 29-JUL-2014 02:42

Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	15.7	471.1	9.3	966.2	
2	5.2	374.2	7.6	821.4	
3	2.6	250.7	5.2	566.0	
4	1.1	129.3	2.6	279.2	
Array Temperature		61.2	Deg F		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1			19.5	3837.4	
2			35.4	3593.4	
3			33.4	3142.6	
4			23.4	2125.2	
Deep			21.4	2062.9	
Medium			47.4	4160.9	
Shallow			51.7	5283.3	
Array Temperature			79.4	Deg F	

Induction Constants MAI-A.A 77

Last Edited on 29-JUL-2014,02:40

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	N/A	inches	
Tool Centred	No		
Stand-off Type	Fins		
Stand-off	0.50	inches	
Number of Fins on Stand-off	6.0000		
Stand-off Fin Angle	60.00	degrees	
Stand-off Fin Width	0.5000	inches	

Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Squasher Start	0.0020	mhos/metre	
Squasher Offset	N/A	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	100.00	percent	
Resistivity of Water for Apor and Sw	0.05	ohm-m	
Resistivity of Mud Filtrate for Sw	0.00	ohm-m	
Source for Rt	0.00		
Source for Rxo	0.00		

Photo Density Calibration MPD-B 154

Base Calibration on 11-JUN-2014 11:45
Field Check on 29-JUL-2014 02:48

Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
		Near	Far	Near	Far
Background		1122	1348		
Reference 1		50690	22835	59553	30910
Reference 2		20666	2382	25010	2543
Field Check at Base					
		1122.4	1347.5		
Field Check					
		1117.8	1355.0		

PE Calibration				
Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	206	999		
Reference 1	21169	50503	0.423	0.371
Reference 2	5995	20536	0.296	0.273
Field Check at Base				
	205.7	998.6		
Field Check				
	203.8	996.8		

Density Constants MPD-B 154

Last Edited on 29-JUL-2014,02:34

Density Source Id	259	
Nylon Calibrator Number	DNC-E662	
Aluminium Calibrator Number	DAC-D687	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.15	gm/cc
Mud Density Z/A Multiplier	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-B 154

Base Calibration on 28-JUL-2014 11:02
Field Calibration on 28-JUL-2014 11:05

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	17024	4.00
2	24738	5.97
3	33184	7.96
4	41127	9.85
5	50464	11.91
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.91	7.96

DOWNHOLE EQUIPMENT

C:\Data\13.08\Smith Production Co\Vue Lena Abshire Meaux Etal #1\Copy of Smith Production_Vue Lena Abshire Meaux Etal #2.dta

CBH-C, Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

11C-11B MTA-K.A Compact Tool Adaptor
MTA-K.A 109 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 226 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.A 241 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

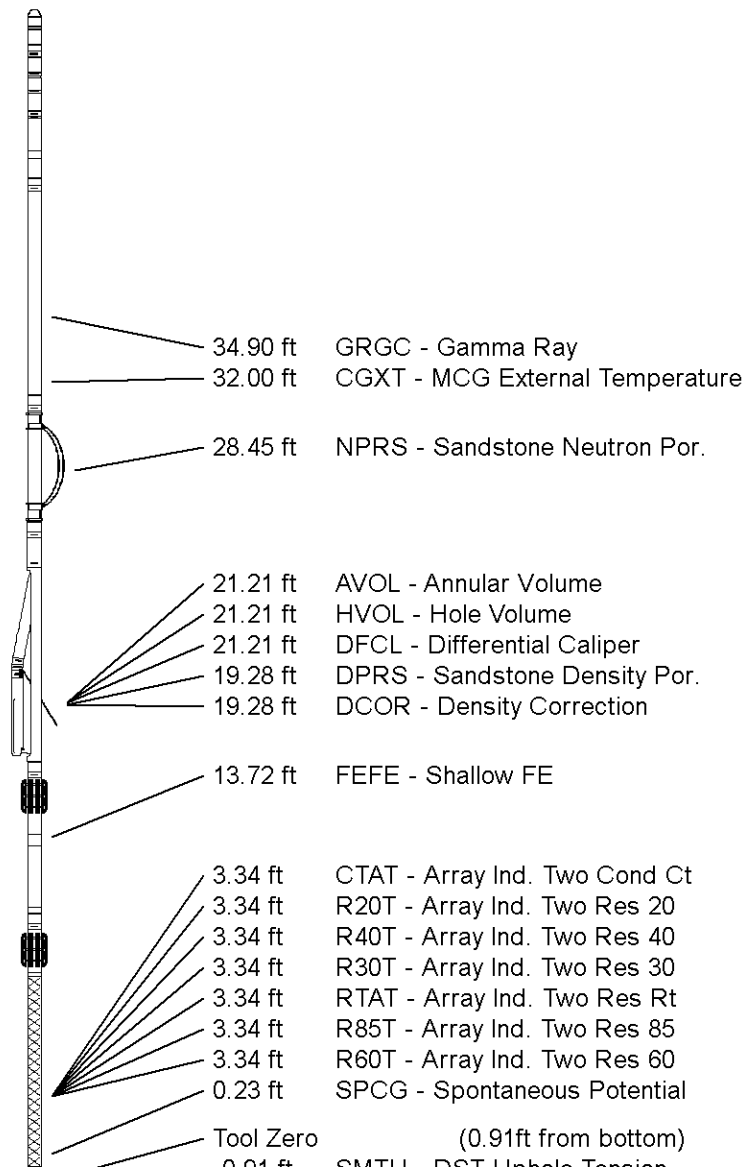
Compact Neutron
MDN-B.A 221 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-B 154 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Focussed Electric
MFE-A.A 137 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-A.A 77 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Compact Hole Finder
HFS 1 LG: 0.78 ft WT: 2.2 lb OD: 2.240 in



Total Length: 47.19 ft Weight: 363.8 lb

-0.91 ft SMITH - DST Ophole tension

COMPANY SMITH PRODUCTION COMPANY
WELL VUA; LENA ABSHIRE MEAUX ETAL #1
FIELD ABBEVILLE
PROVINCE/COUNTY VERMILION
COUNTRY/STATE USA / LOUISIANA

Elevation Kelly Bushing	24.00	feet	First Reading	8811.00	feet
Elevation Drill Floor	23.00	feet	Depth Driller	8804.00	feet
Elevation Ground Level	10.00	feet	Depth Logger	8815.00	feet



Weatherford[®]

ARRAY INDUCTION / MFE
PHOTO DENSITY / DUAL NEUTRON
GAMMA RAY **TVD** LOG