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

Weatherford®

COMPANY	SMITH PRODUCTION COMPANY
WELL	7000 RA SUA; SL 18593 #1 ALT
FIELD	GILLIS - ENGLISH BAYOU
PROVINCE/COUNTY	CALCASIEU
COUNTRY/STATE	USA / LOUISIANA
LOCATION	X = 1,428,923.43 & Y = 594,026.26
PERMIT NUMBER	247742

SEC 12	TWP 9S	RGE 8W	Other Services
Latitude		30.287994	CALIPER LOG
Longitude		93.142917	TVD
API Number		17019223340000	SIDEWALL CORES

Permanent Datum GL, Elevation 15 feet	Elevations:	feet
Log Measured From KB	KB	32.00
Drilling Measured From KB @ 32 FEET	DF	31.00
	GL	15.00

Date	09-MAY-2014			
Run Number	ONE			
Service Order	6154-86795757			
Depth Driller	7720.00	feet		
Depth Logger	7720.00	feet		
First Reading	7720.00	feet		
Last Reading	1829.00	feet		
Casing Driller	1836.00	feet		
Casing Logger	1829.00	feet		
Bit Size	8.500	inches		
Hole Fluid Type	WATER BASED			
Density / Viscosity	10.10 lb/USg	45.00 sec/Qrt		
PH / Fluid Loss	9.50	4.80 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.10 @ 75.0	ohm-m		
Rmf @ Measured Temp	0.825 @ 75.0	ohm-m		
Rmc @ Measured Temp	1.375 @ 75.0	ohm-m		
Source Rmf / Rmc	CALCULATE			
Rm @ BHT	0.52 @163.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	163.00	deg F		
Equipment / Base	13046	BROUSS		
Recorded By	J. OCHEJA			
Witnessed By	H. ANTIE			
Rig Name	GUICHARD #5			

BOREHOLE RECORD

Last Edited: 08-MAY-2014 23:25

Bit Size inches	Depth From feet	Depth To feet
8.500	1836.00	7720.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1836.00	36.00

REMARKS

SERVICE ORDER # 6154-86795757

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
MPD: 8 INCH PROFILE PLATE USED. HOLE STABILIZER USED

2.65 MATRIX DENSITY USED TO CALCULATE POROSITY

RWA CALCULATED USING; A=0.62 AND M=2.15

HOLE VOLUME FROM TD TO CASING SHOE FOUND TO BE = 2,760 CU FT

ANNULAR VOLUME FROM TD TO CASING SHOE CALCULATED FOR 5.5" PRODUCTION CASING = 1,780 CU FT

ALL INTERVALS LOGGED AND SCALED AS PER CUSTOMER REQUEST

CREW: J. OCHEJA, A. HYNES, J. METTLEN

THANK YOU FOR USING WEATHERFORD WIRELINE BROUSSARD

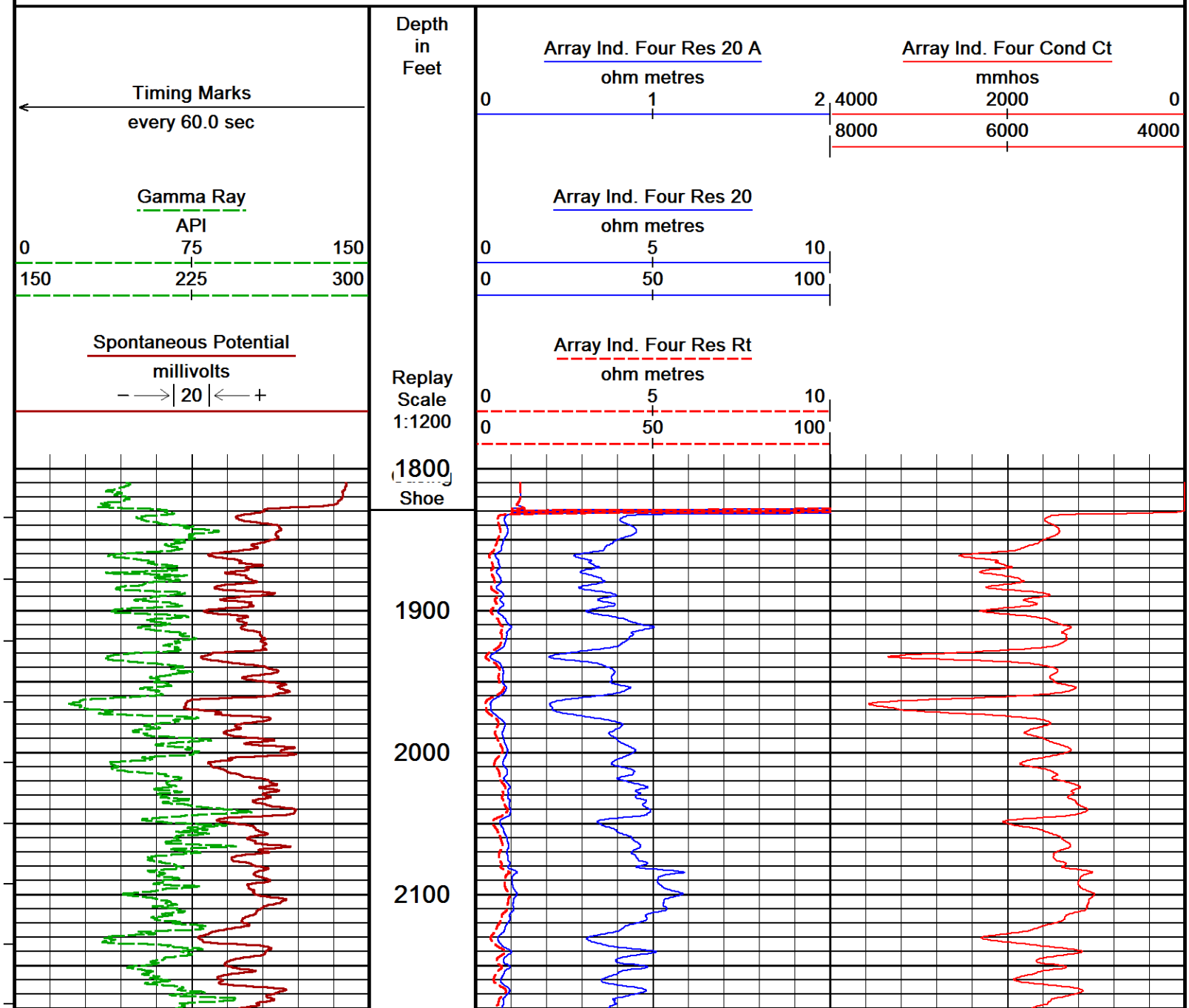
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

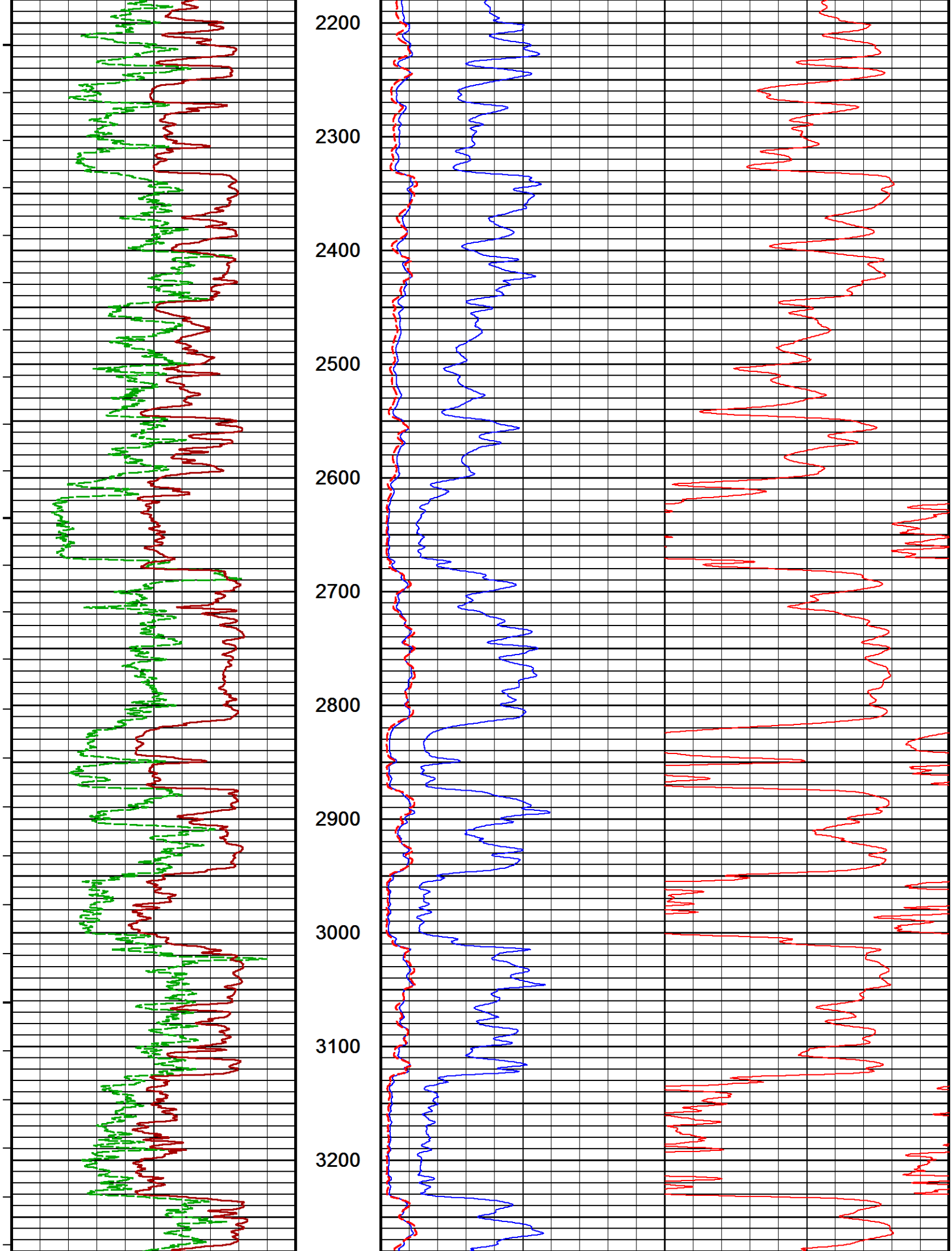
ONE INCH MAIN PASS 1:1200

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-MAY-2014 07:17

Filename: C:\Data\13.08\Smith Produ...\Copy of Smith Production_SL 18593 #1 ALT_T Combo MD2.dta — Recorded on 09-MAY-2014 03:37

System Versions: Logged with 14.01.3016 Plotted with 14.01.3016

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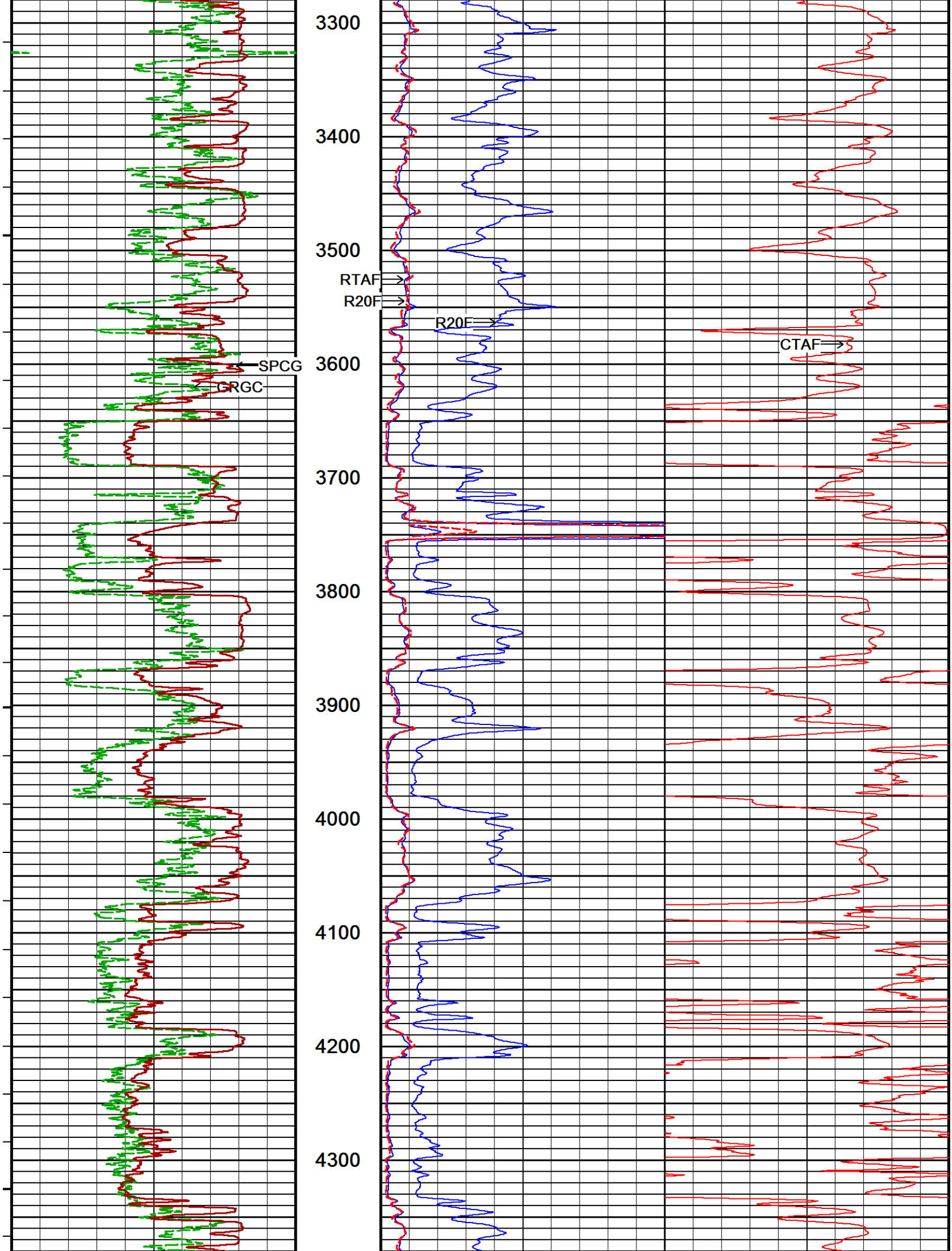
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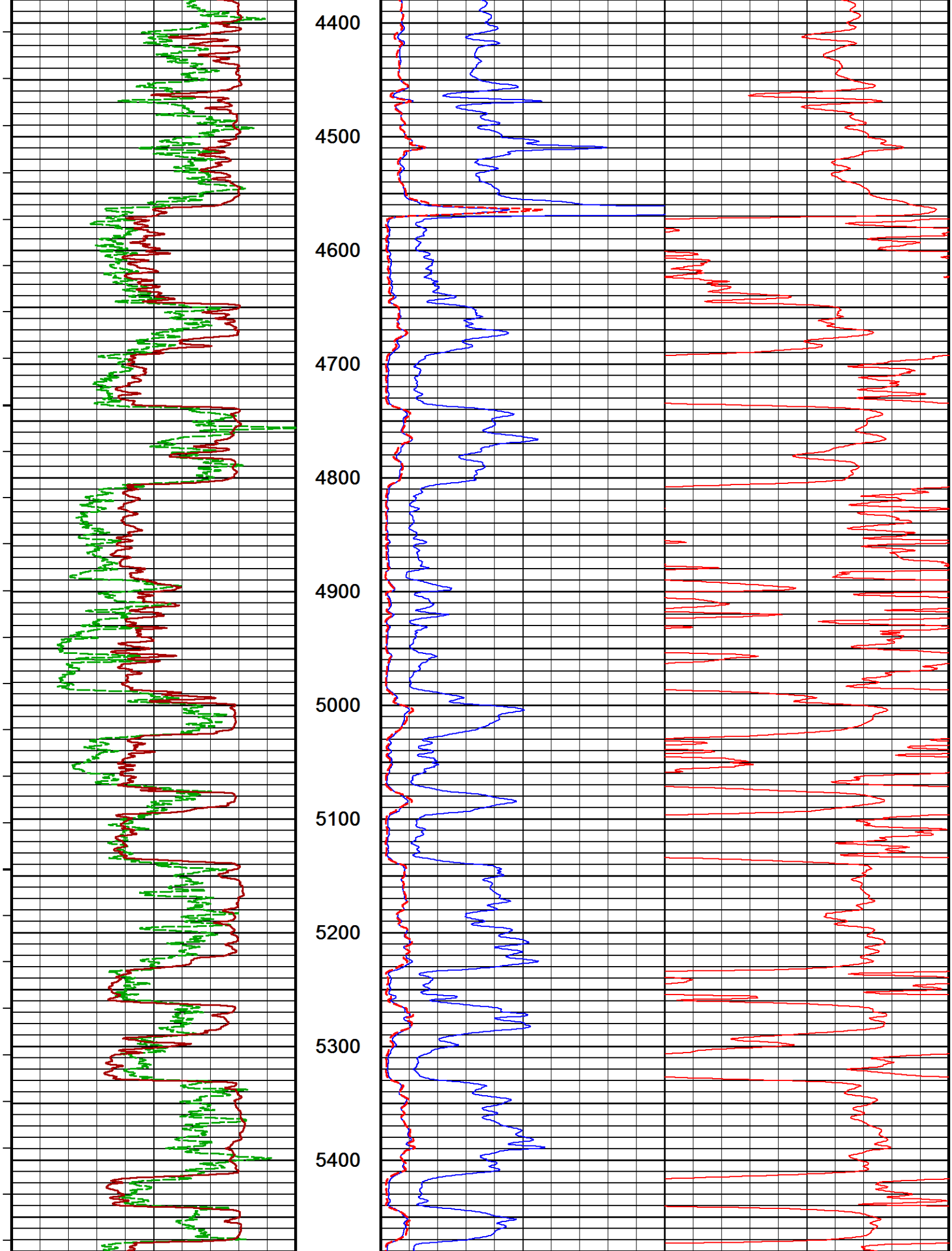
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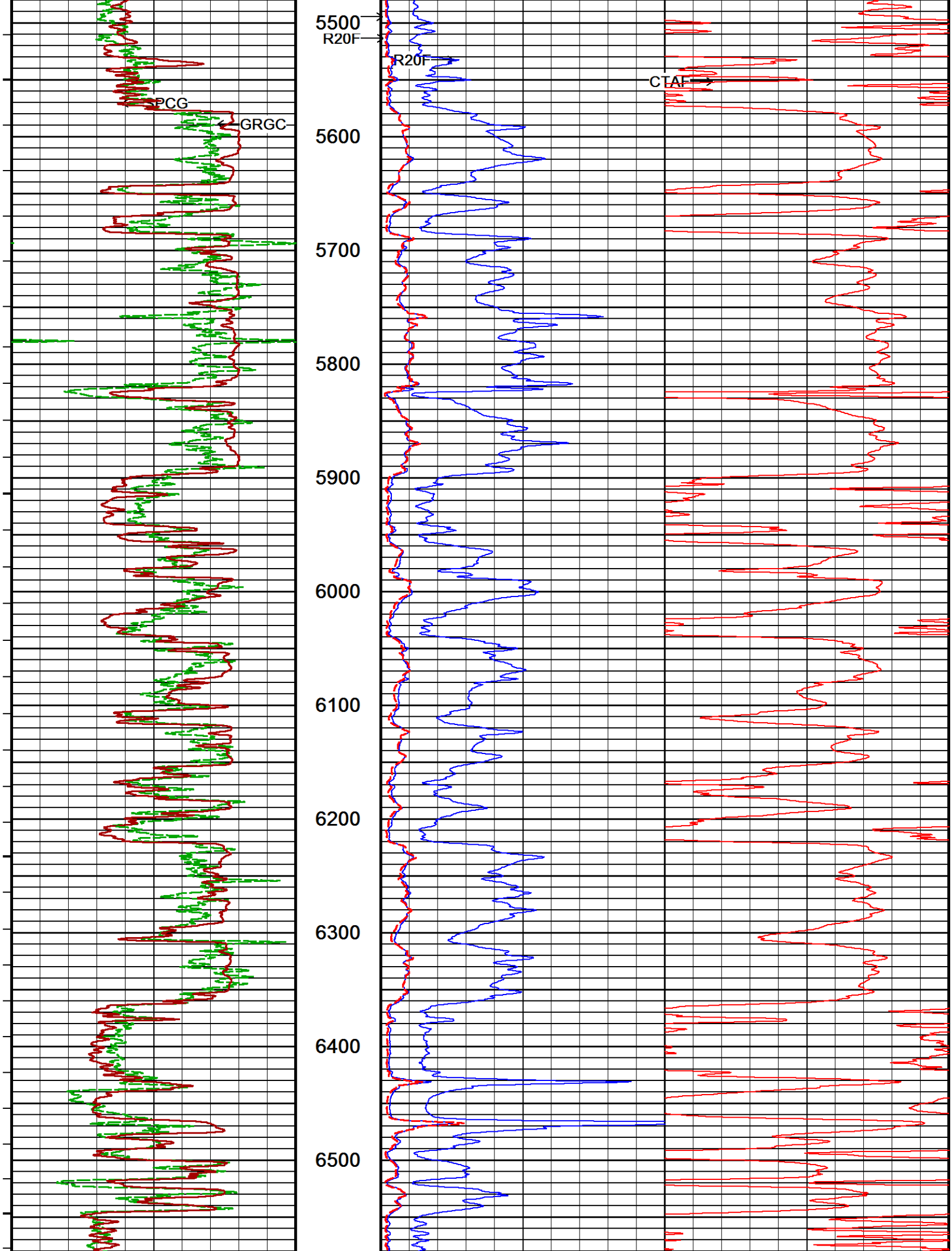
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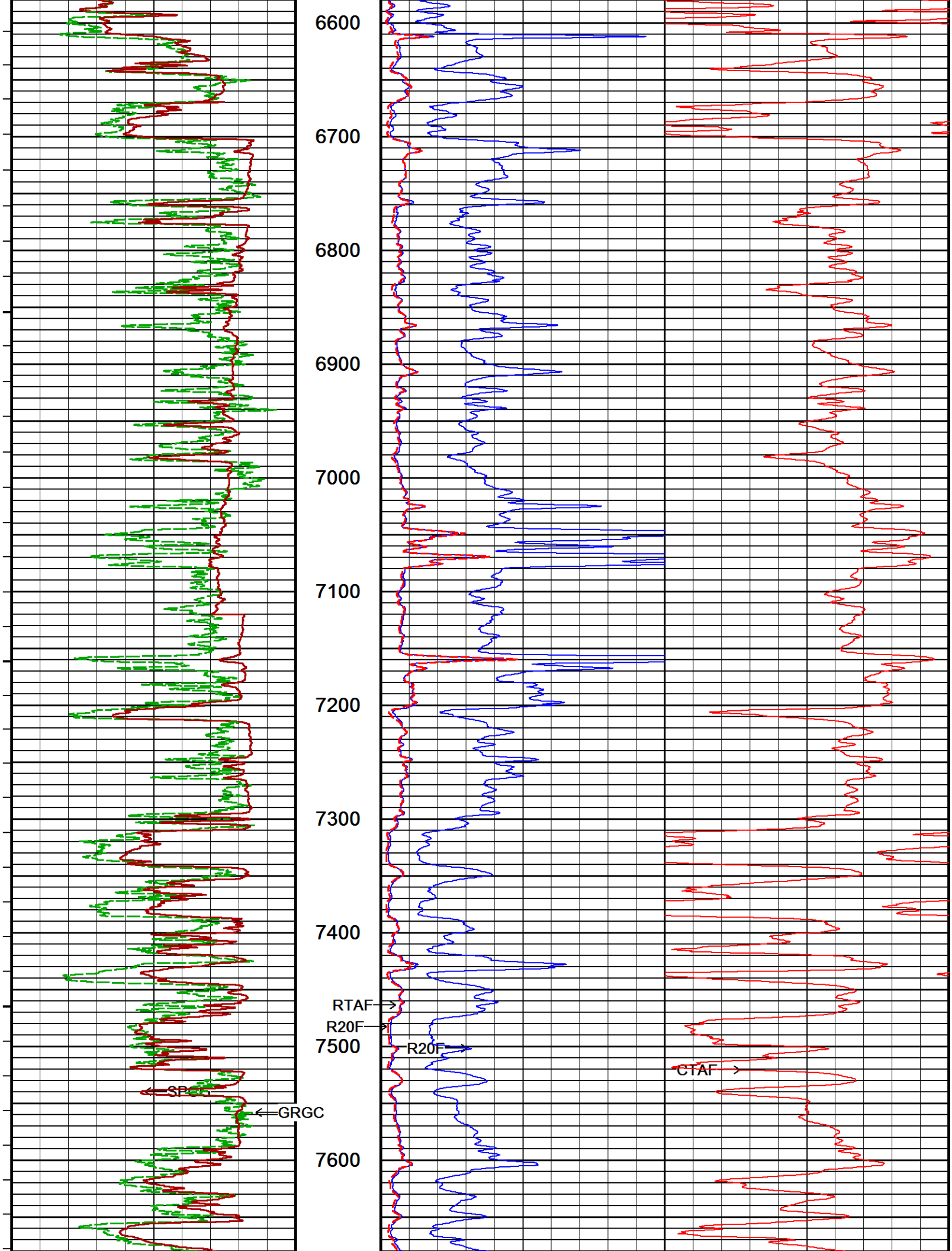
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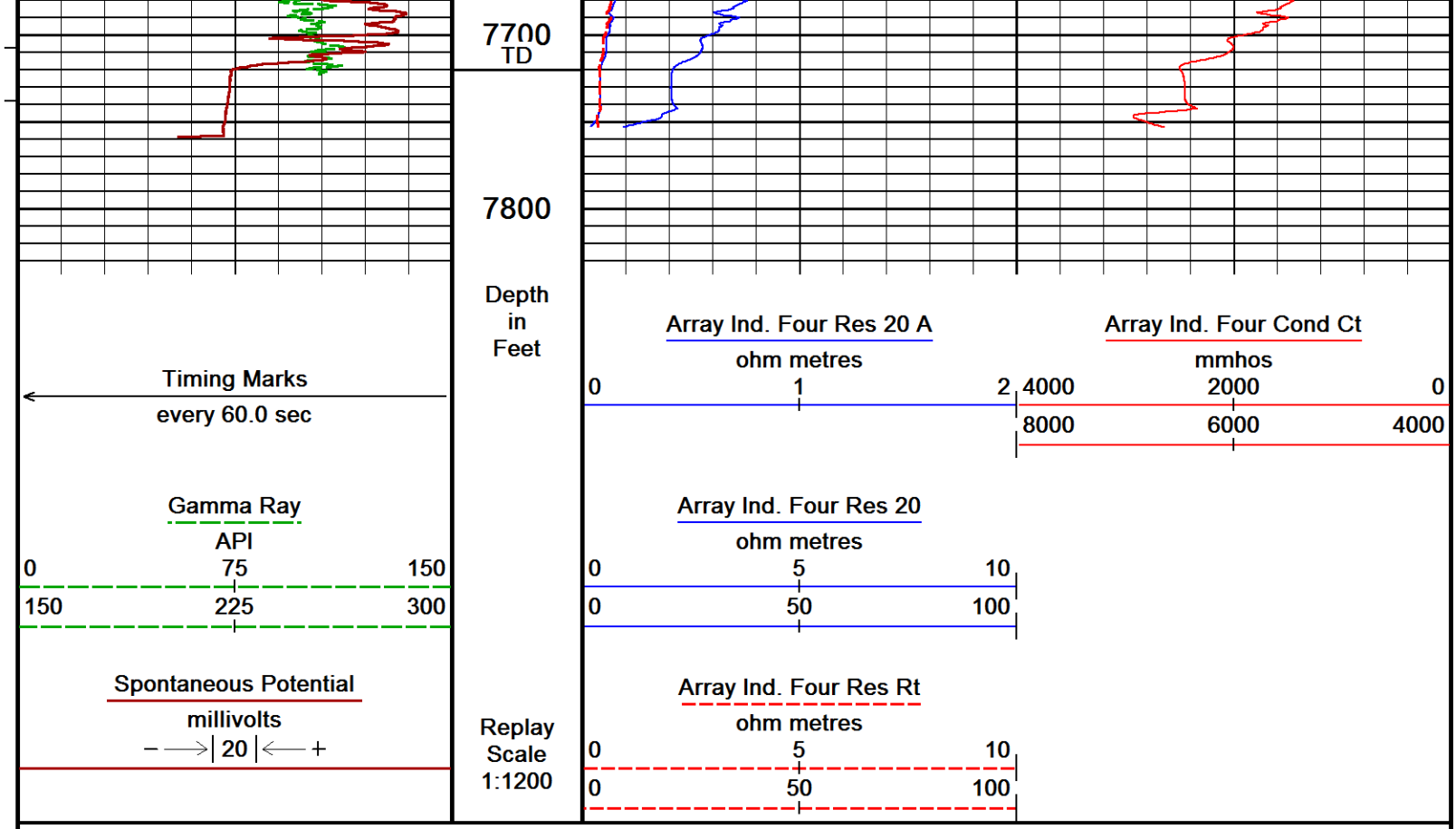

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-MAY-2014 07:17
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System Versions: Logged with 14.01.3016 Plotted with 14.01.3016

ONE INCH MAIN PASS 1:1200

FIVE INCH MAIN PASS 1:240

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-MAY-2014 07:17
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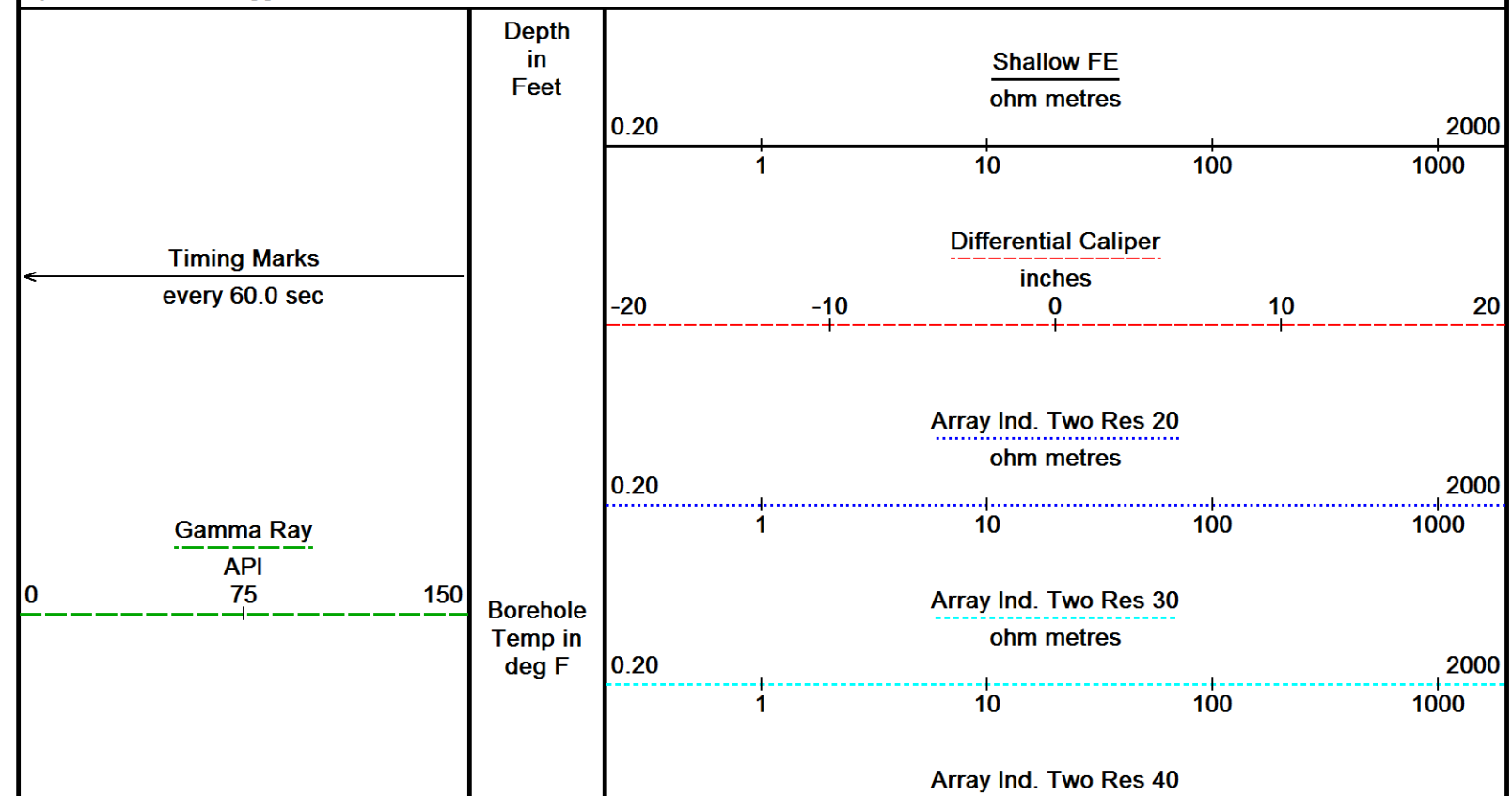
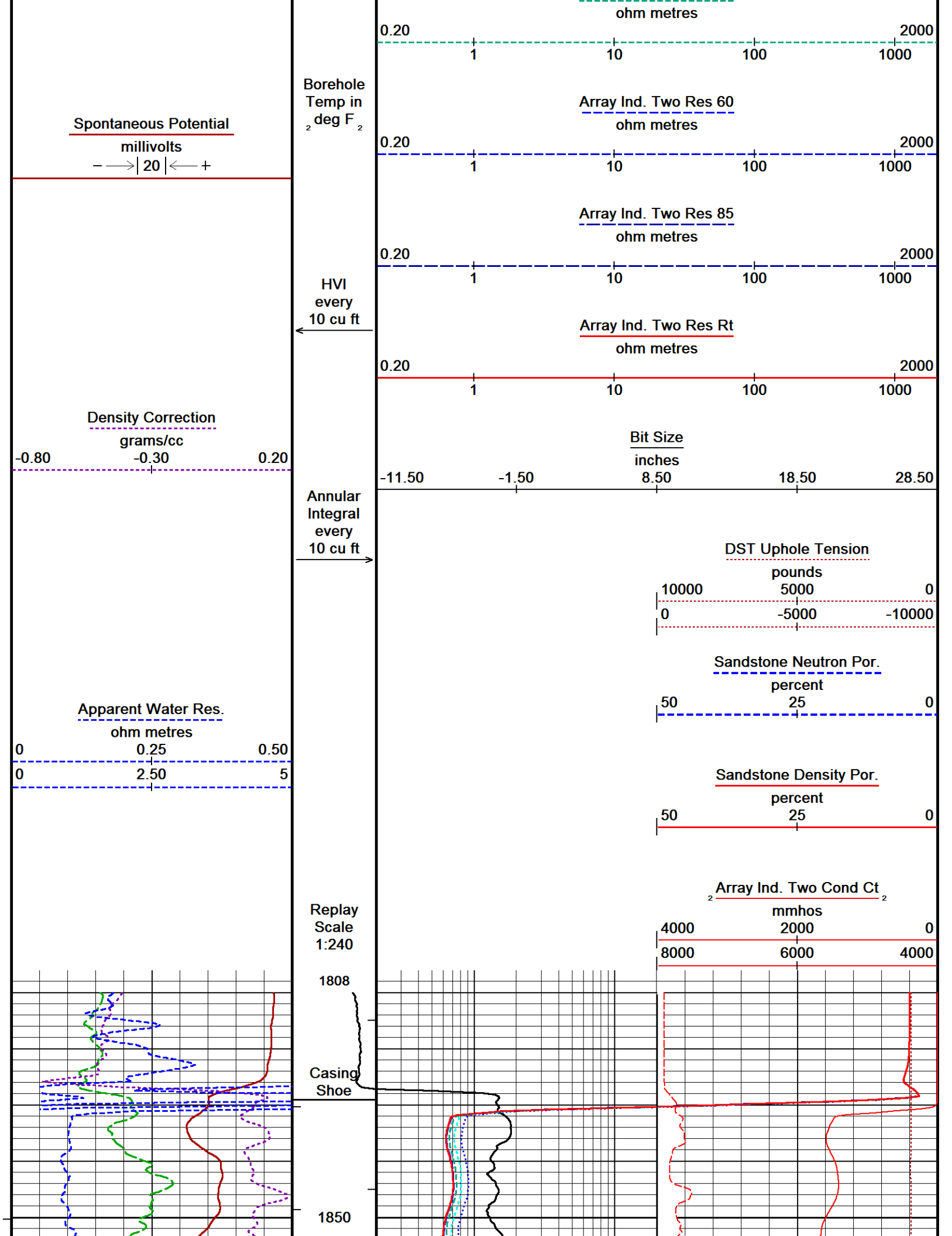
System Versions: Logged with 14.01.3016 Plotted with 14.01.3016




Spontaneous Potential
millivolts
– 20 +
Borehole Temp in deg F
HVI every 10 cu ft
Annular Integral every 10 cu ft
Replay Scale 1:240
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 60
Array Ind. Two Res 85
Array Ind. Two Res Rt
Density Correction
grams/cc
-0.80
-0.30
0.20
Bit Size
inches
-11.50
-1.50
8.50
18.50
28.50
DST Uphole Tension
pounds
10000
5000
0
-5000
-10000
Sandstone Neutron Por.
percent
50
25
Sandstone Density Por.
Apparent Water Res.
0.25
0.50
2.50
5
Array Ind. Two Cond Ct
mmhos
4000
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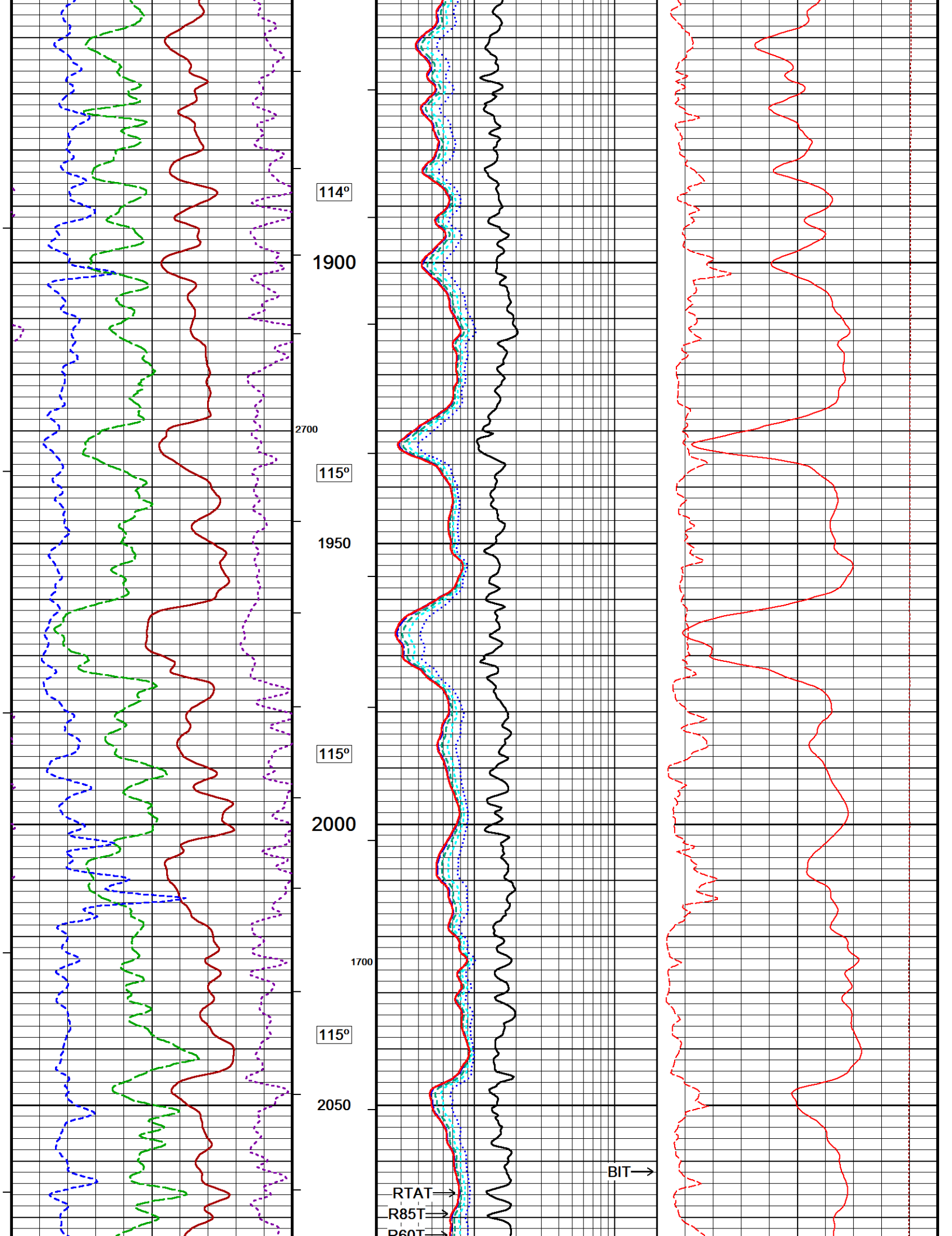
8000
6000
1808
Casing Shoe
1850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2050
BIT
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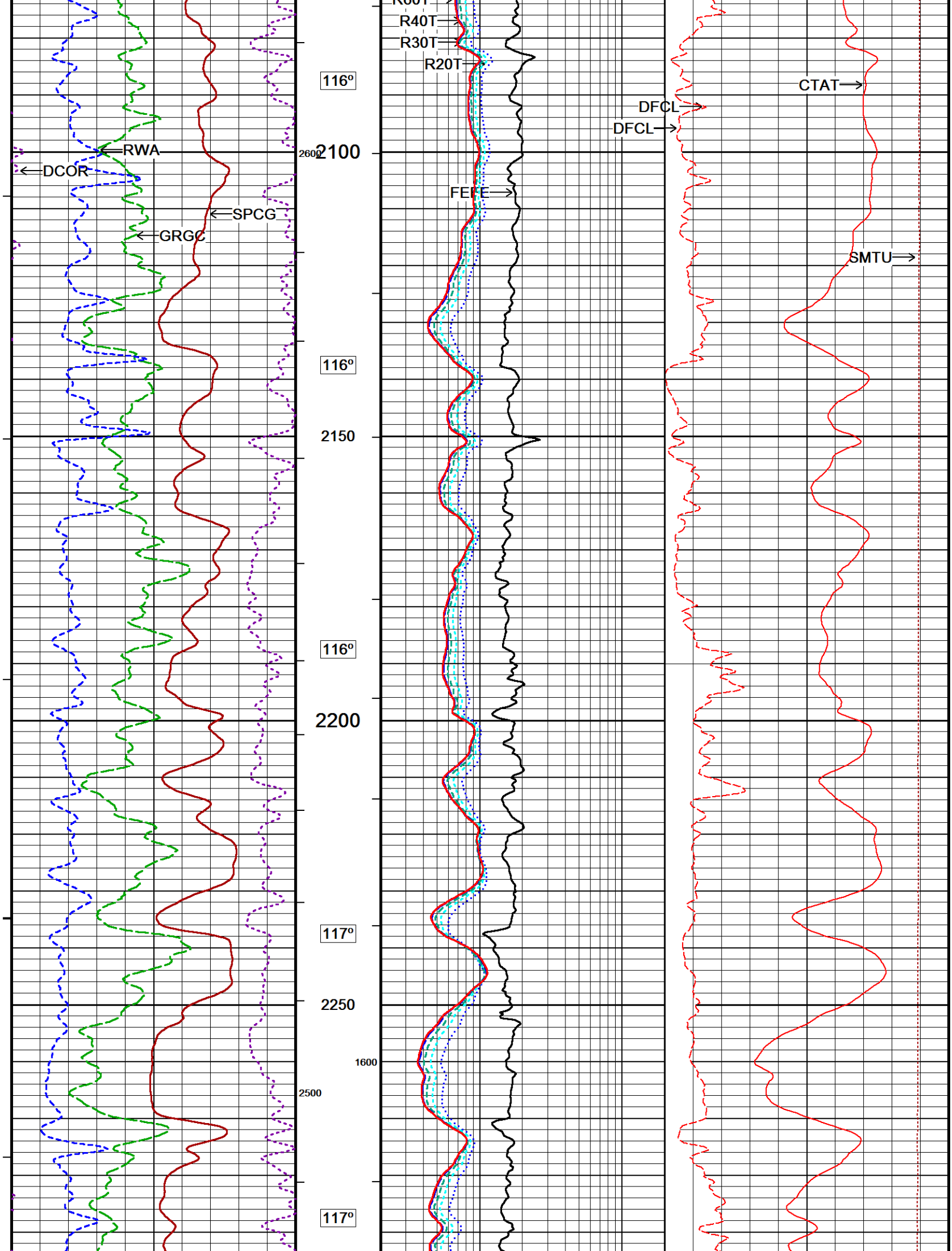
R60T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FEFE
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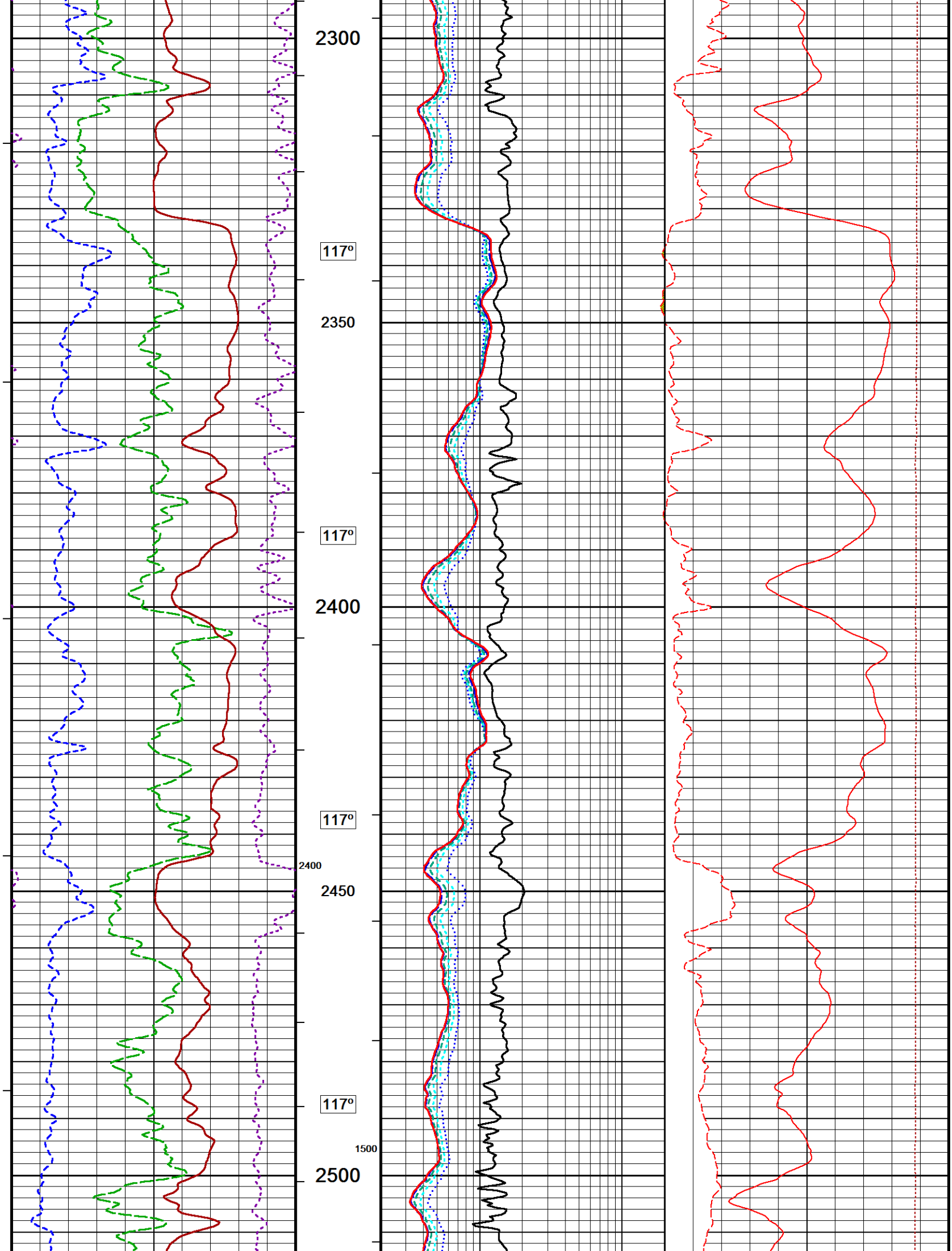
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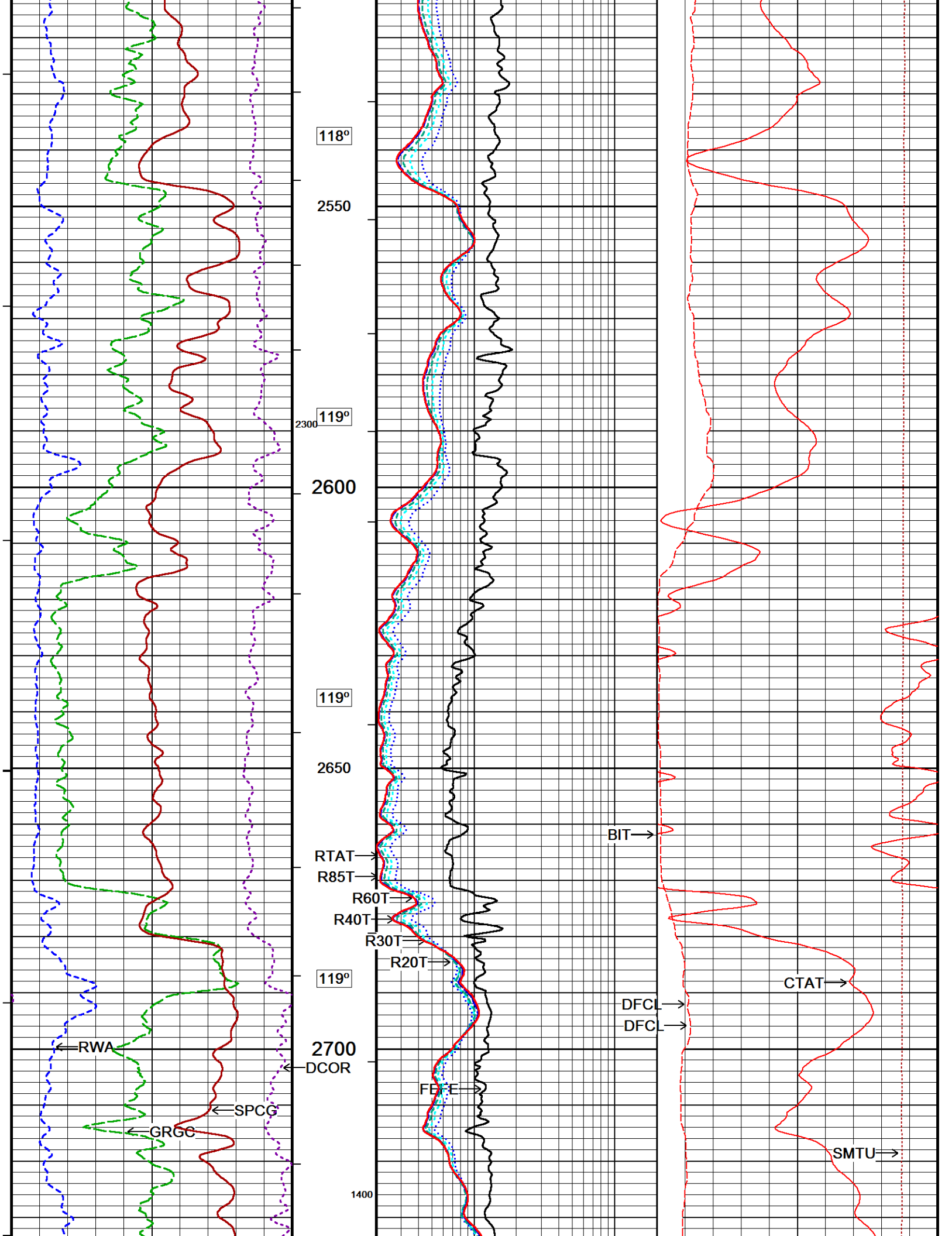
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119°
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1400
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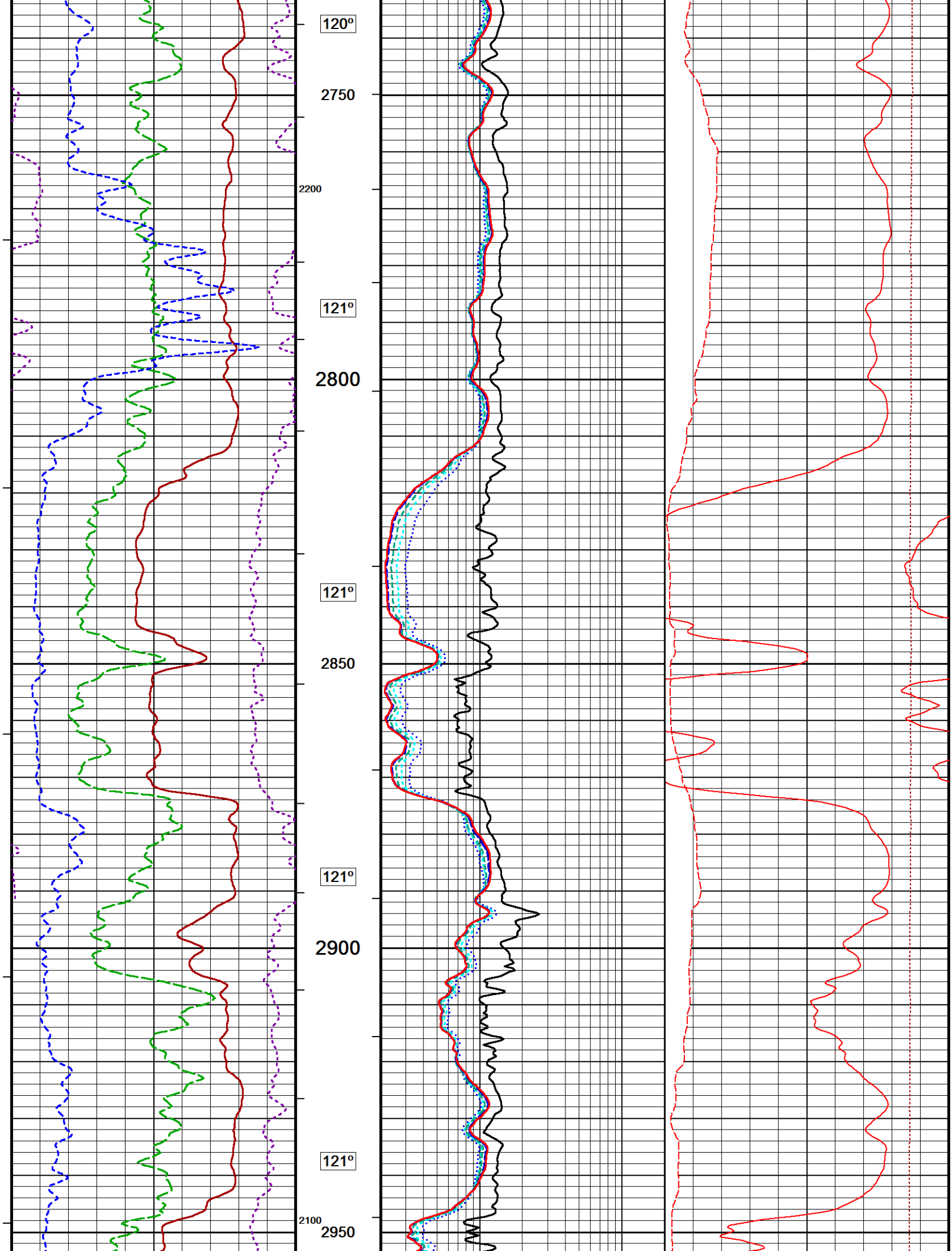
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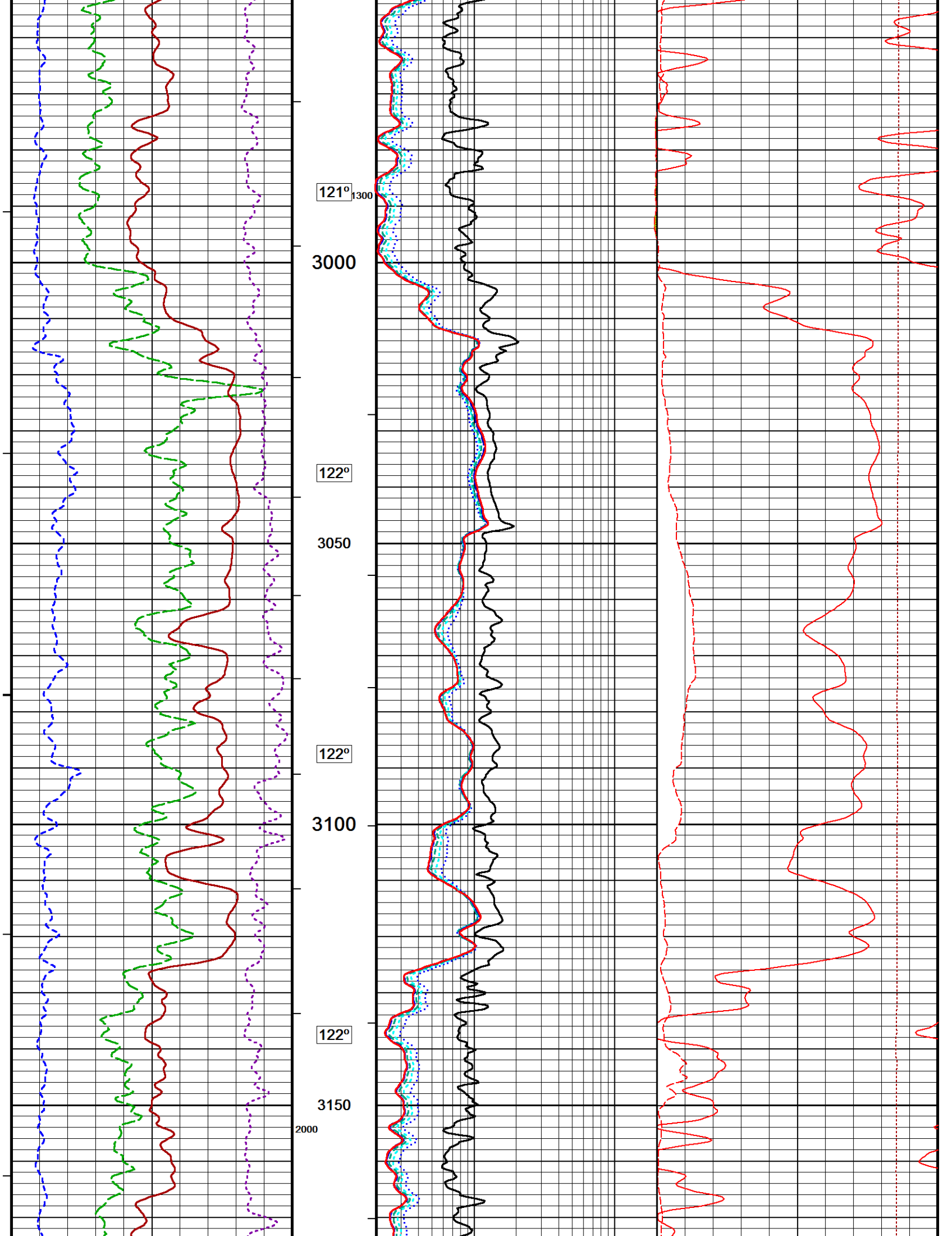
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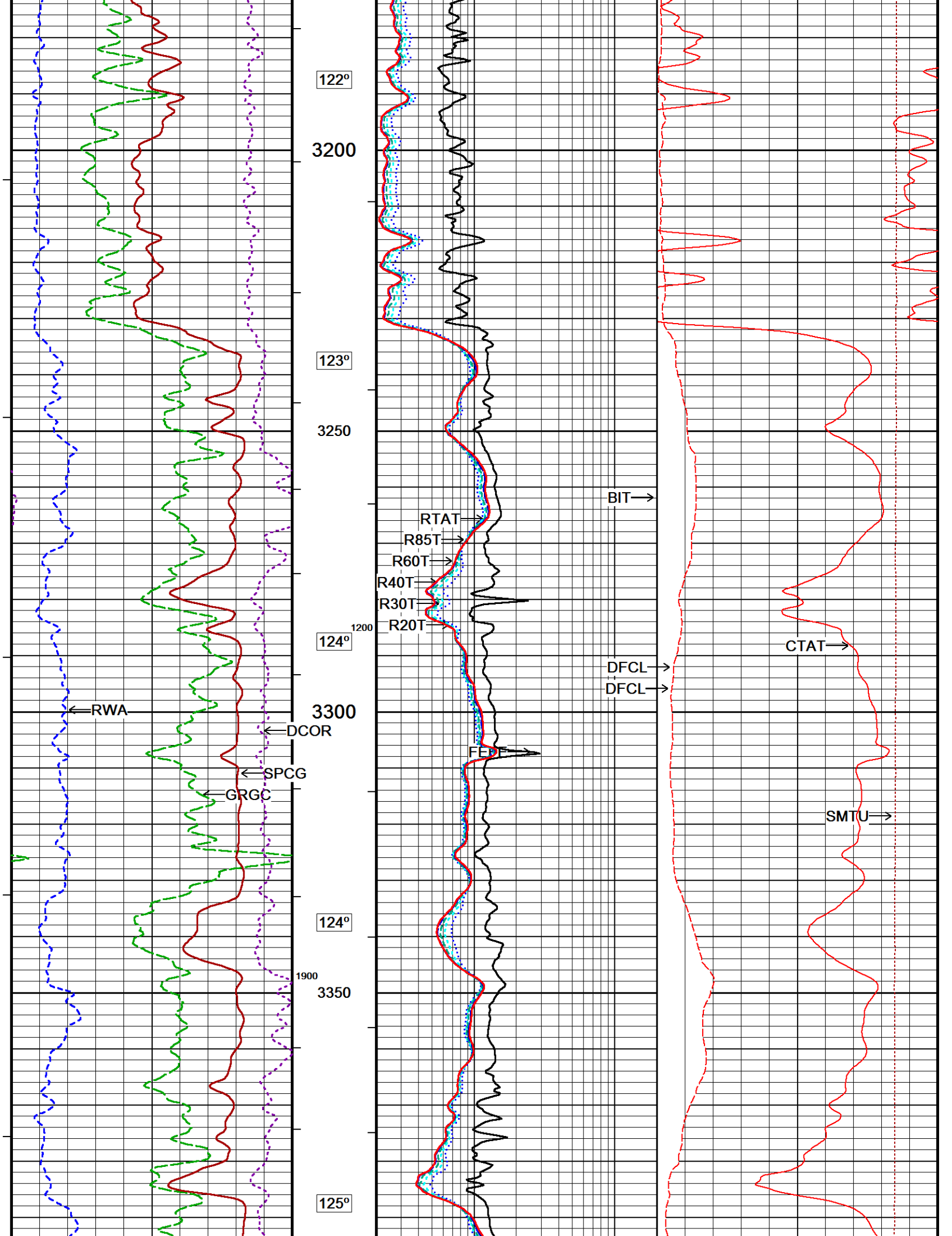
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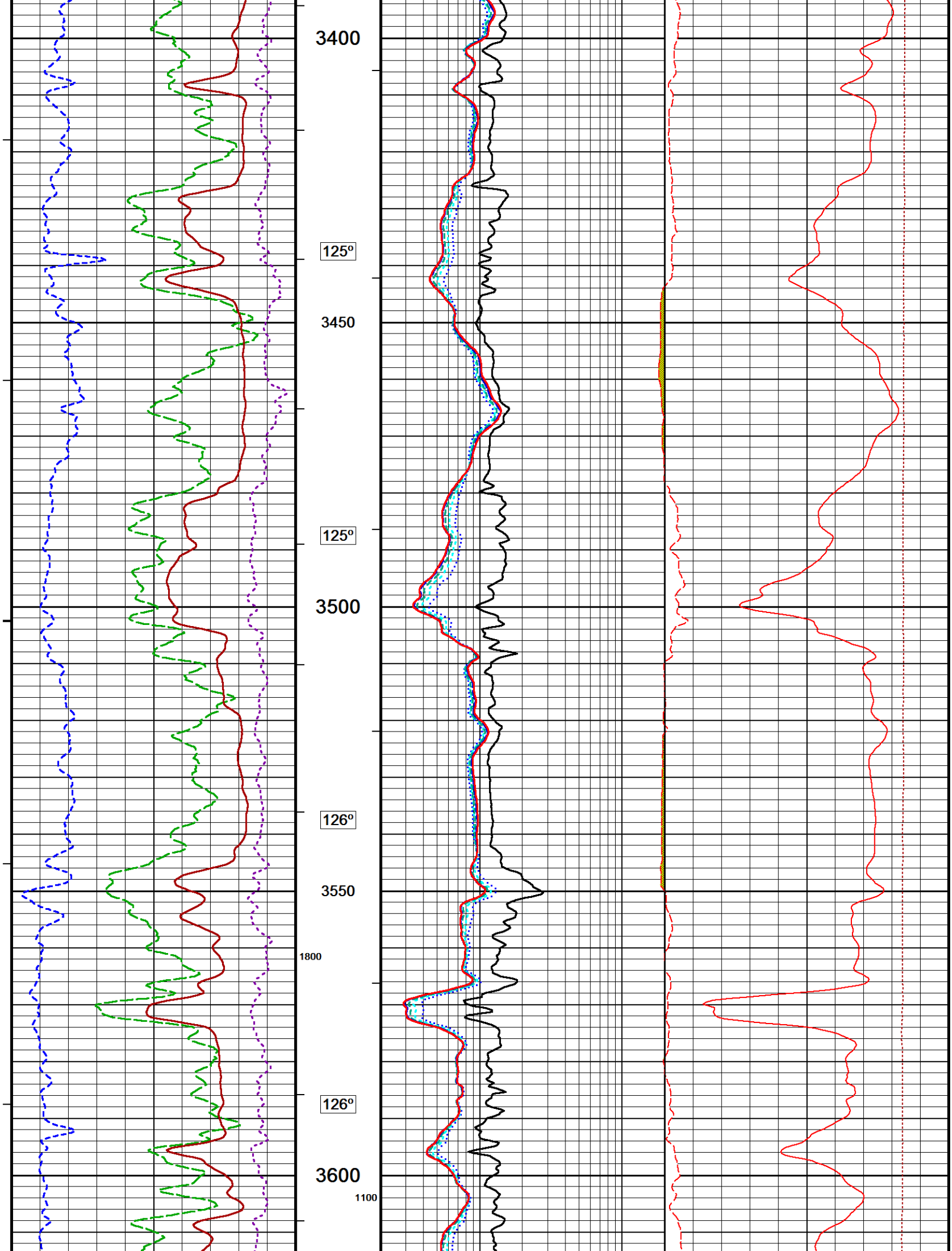
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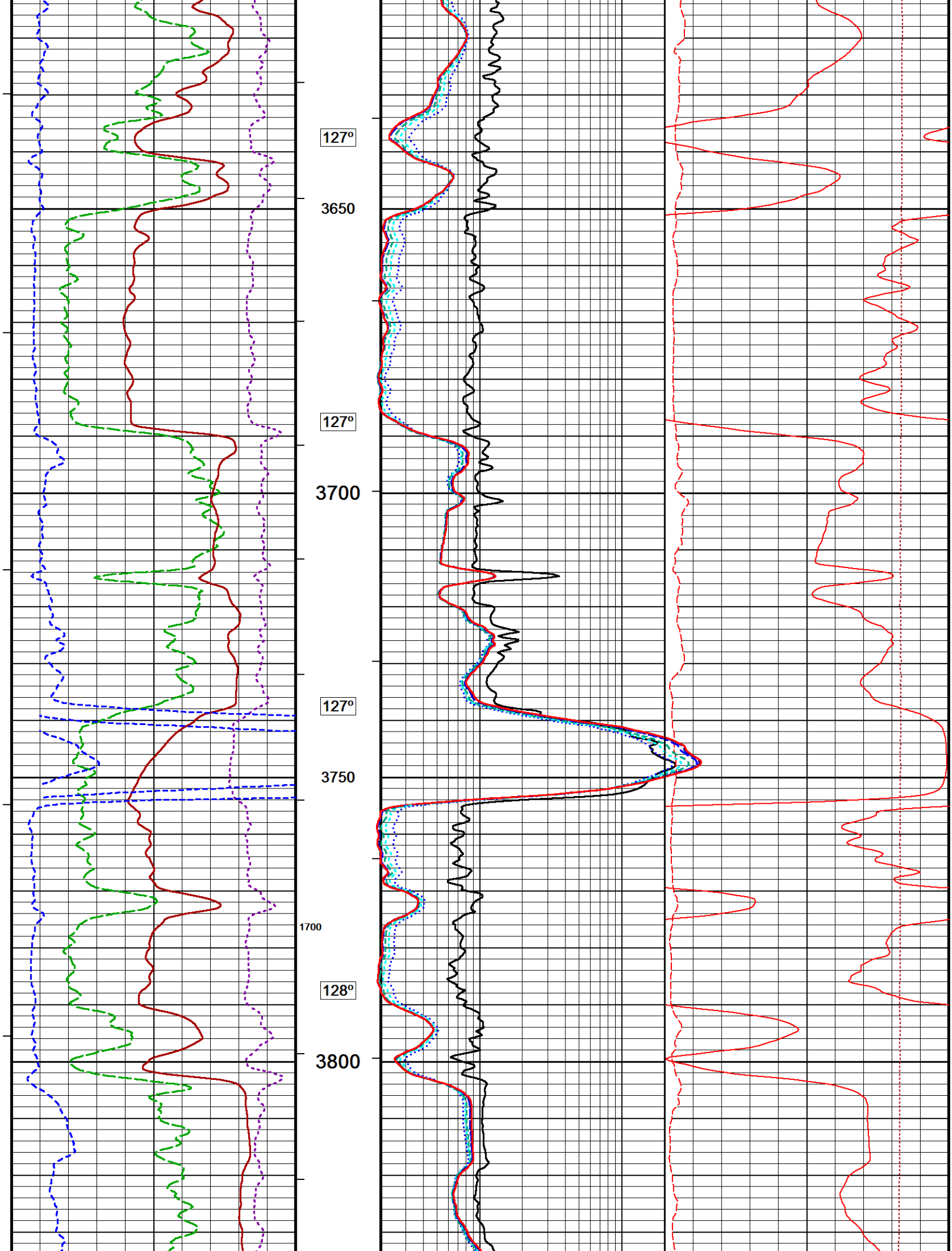
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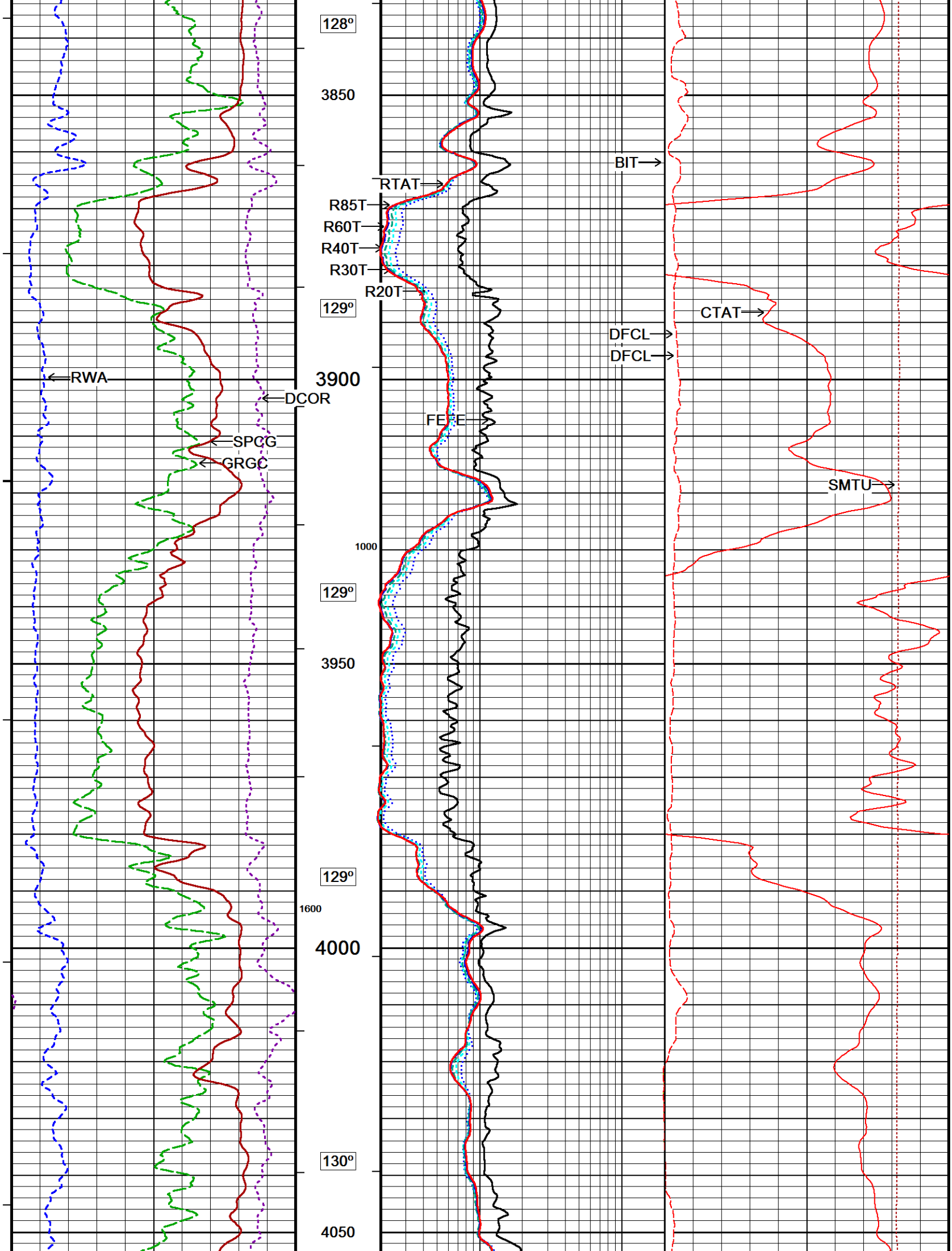
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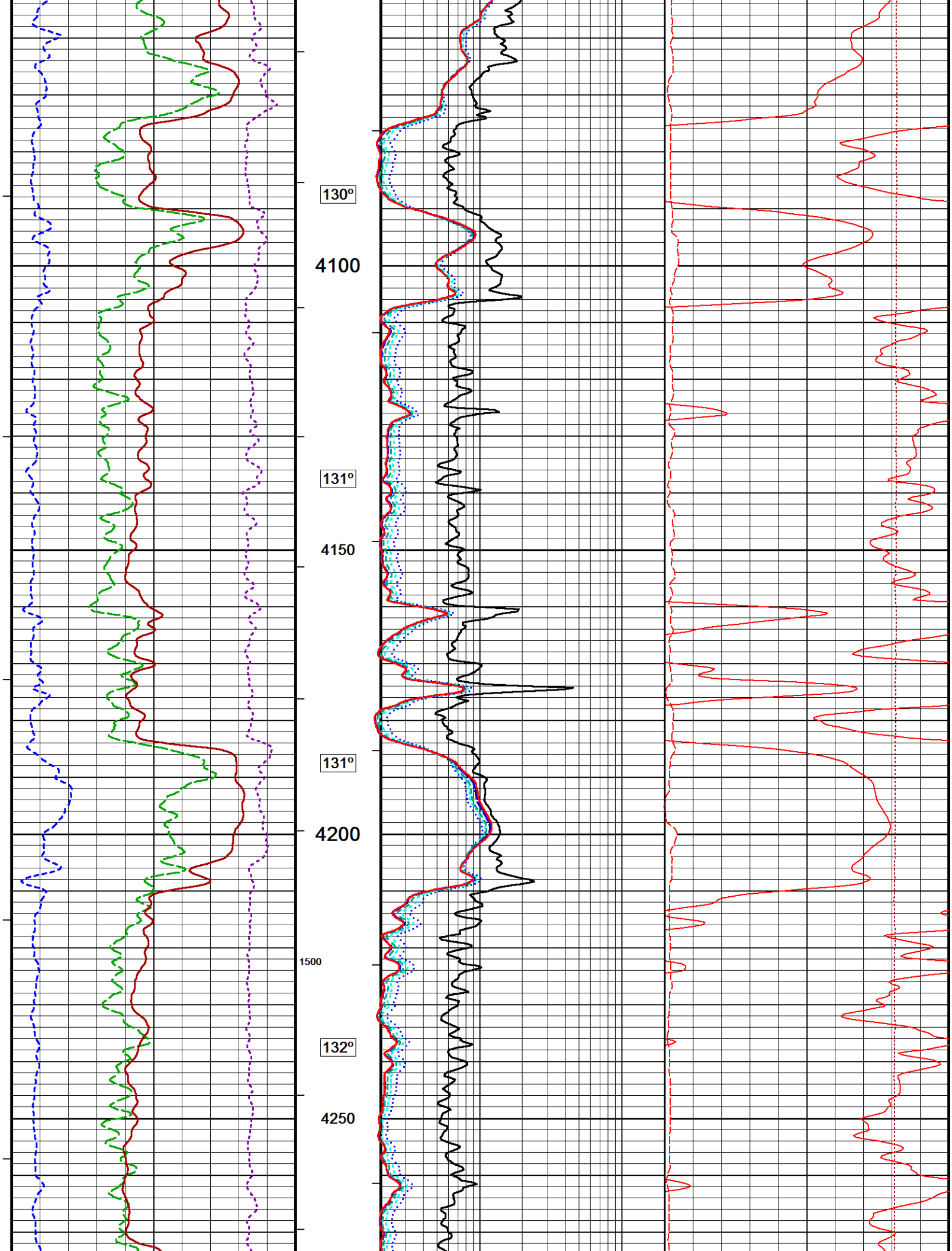
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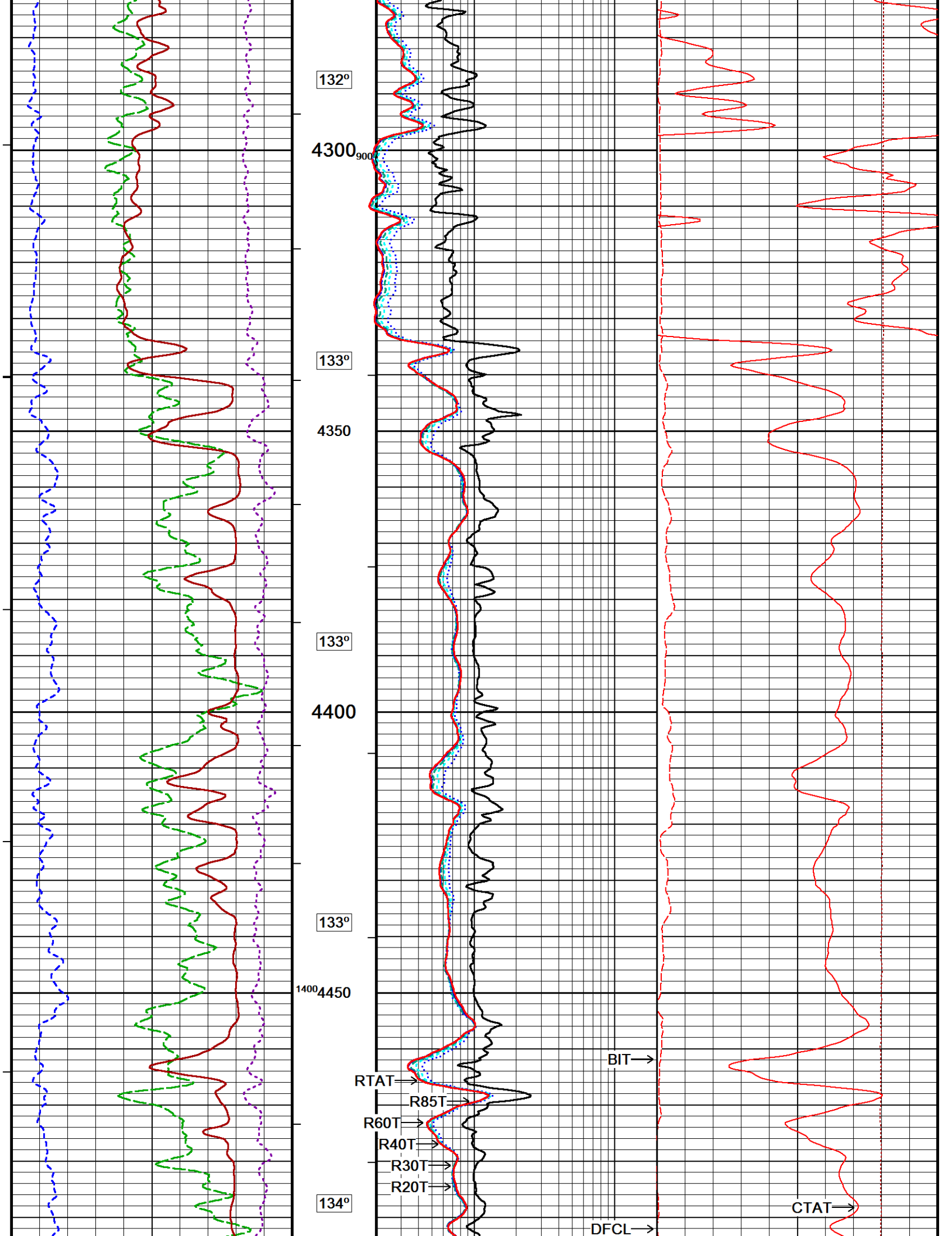
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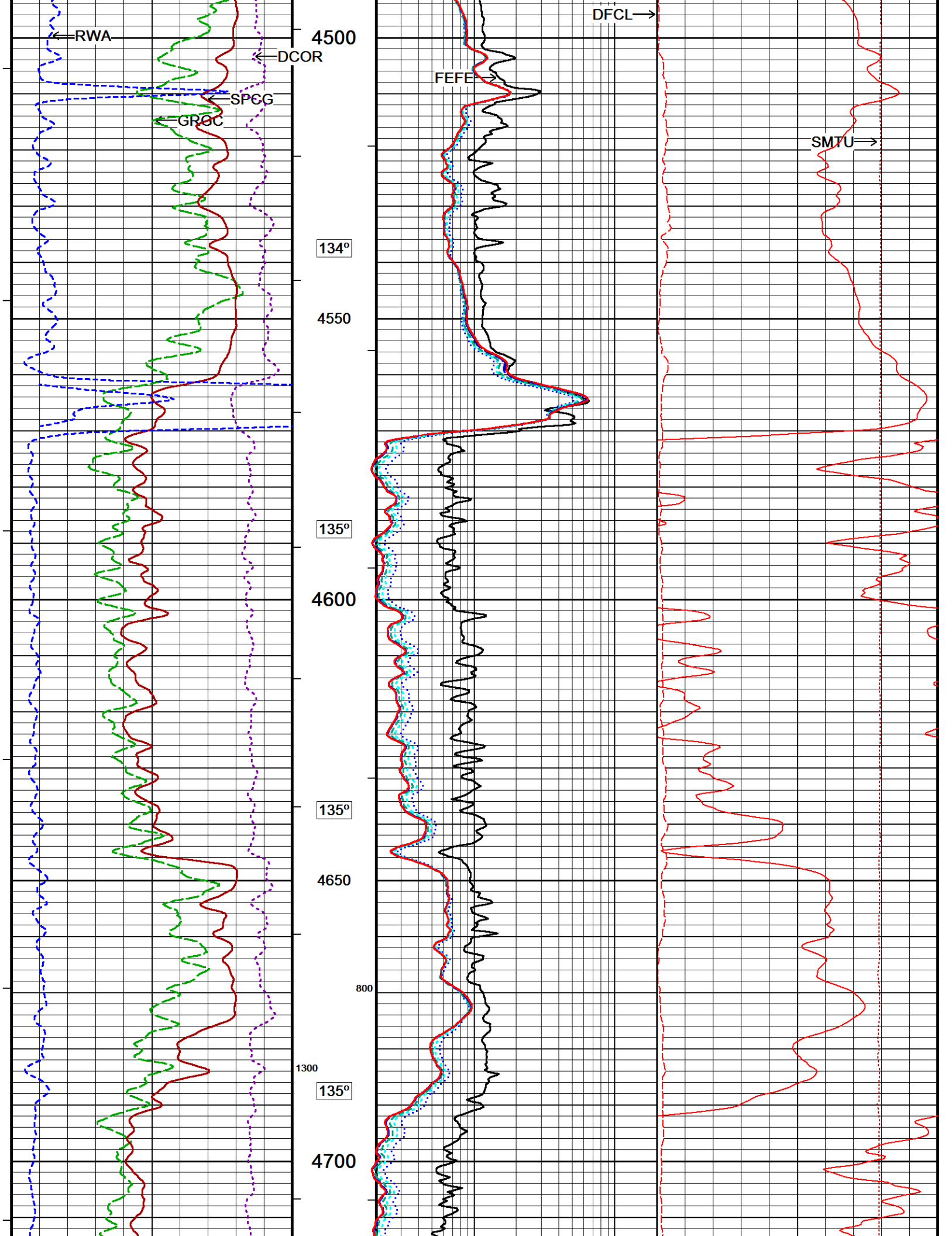
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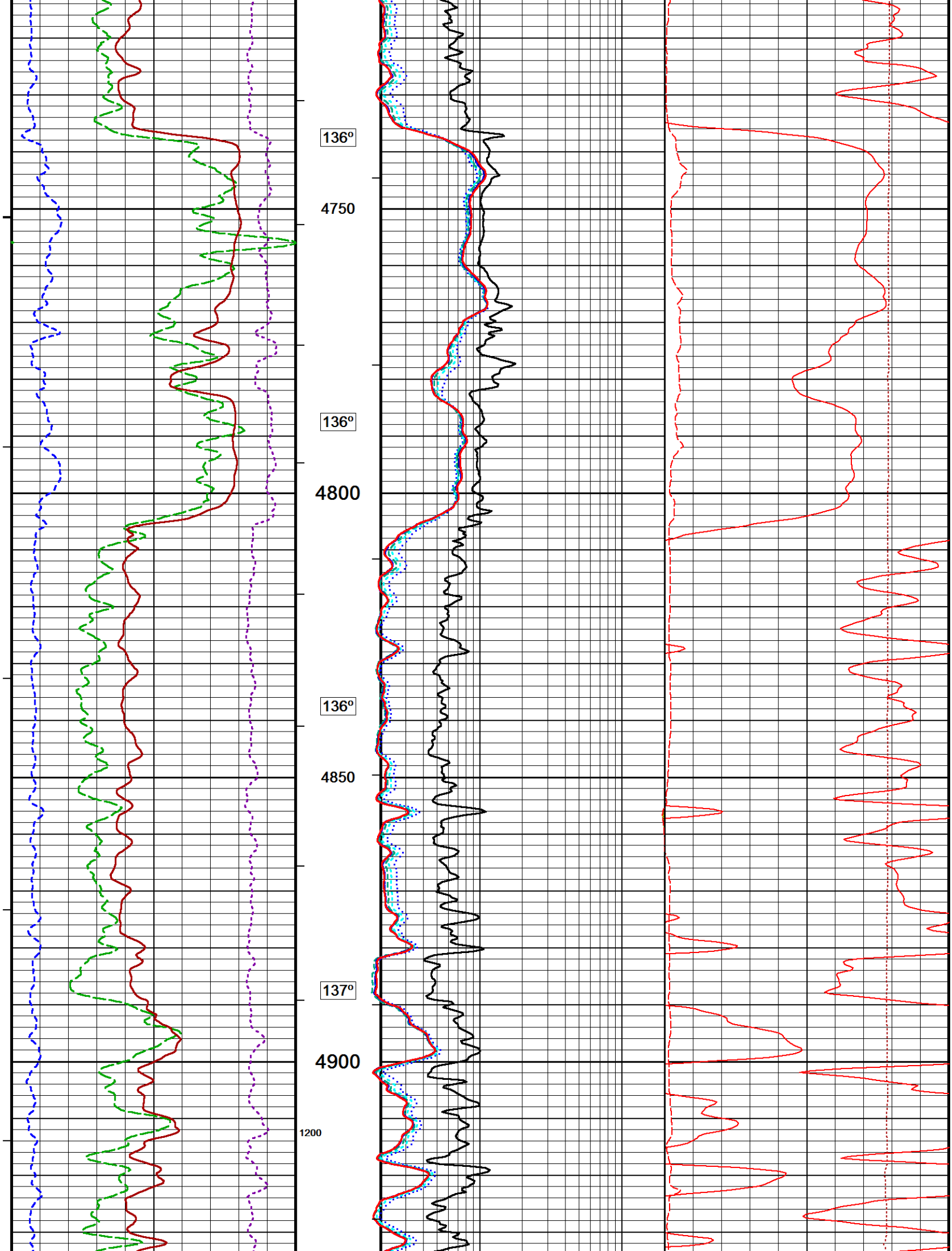
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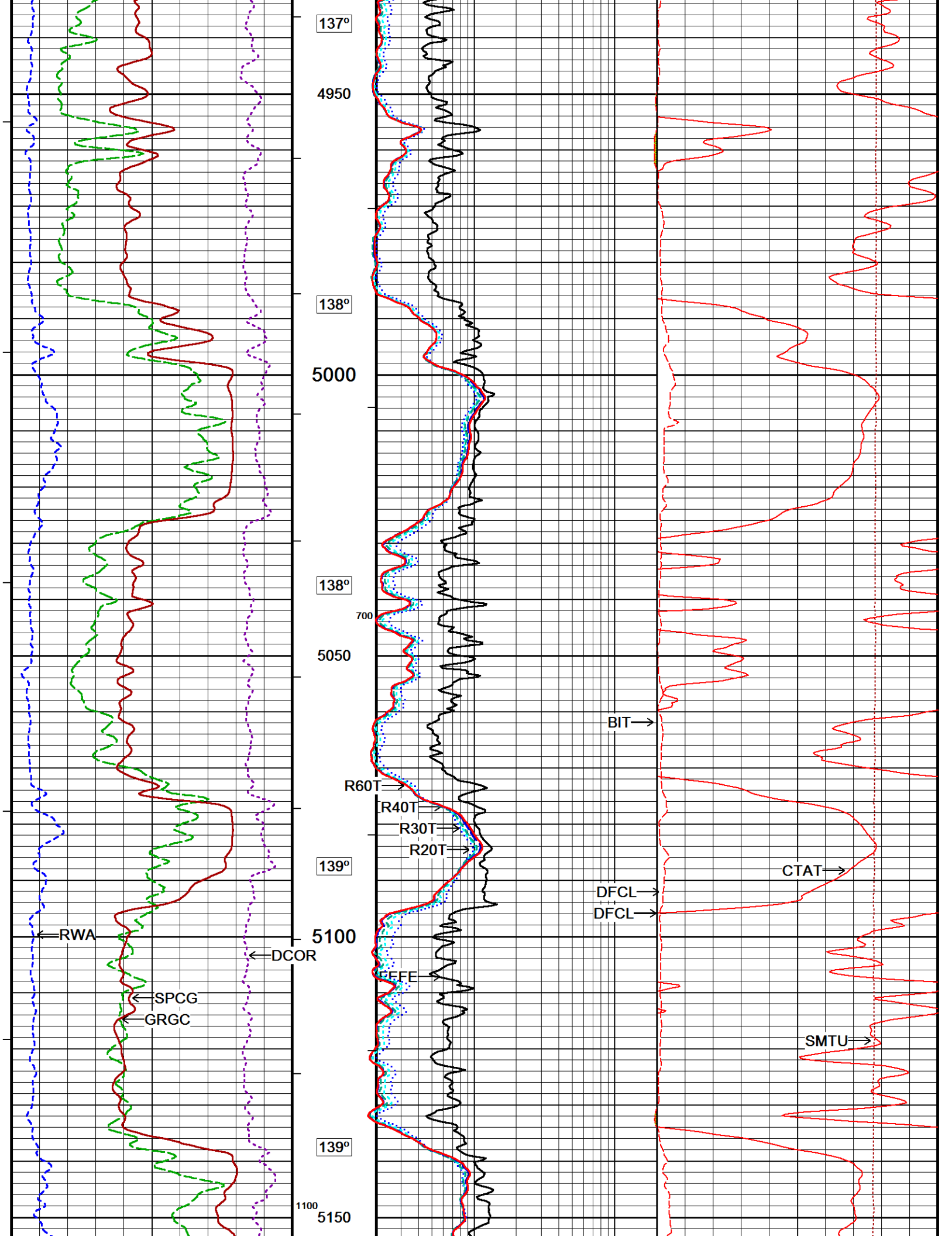
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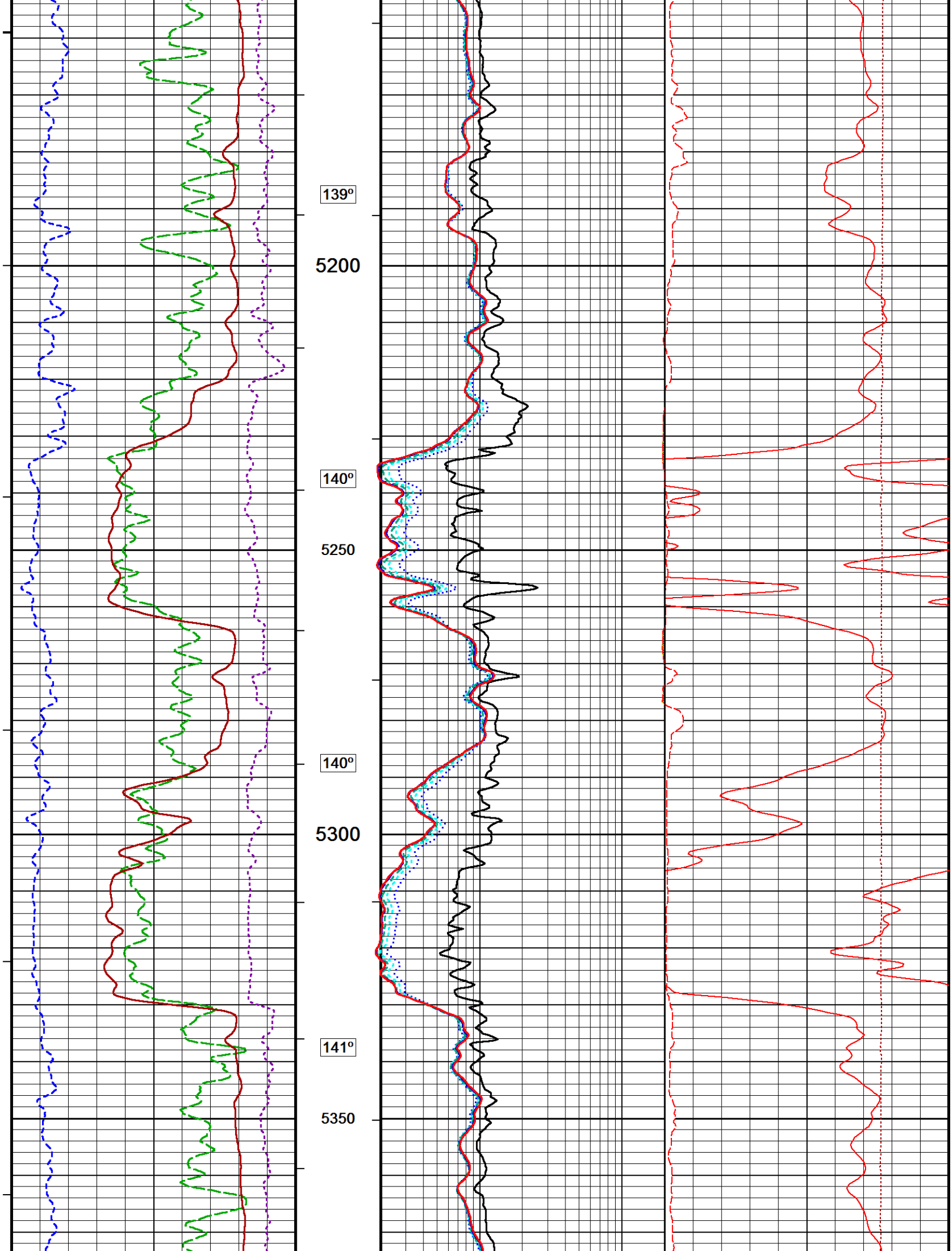
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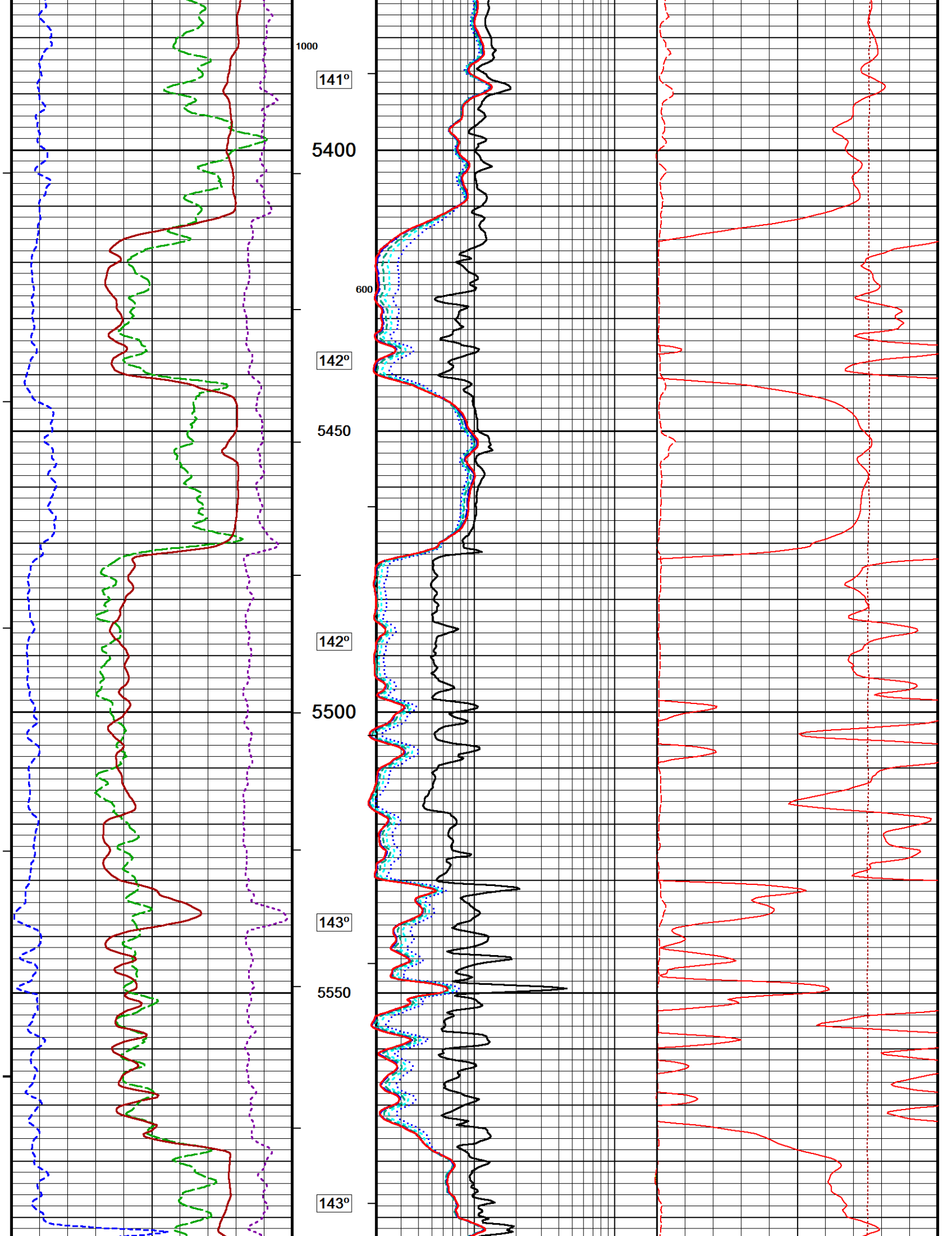
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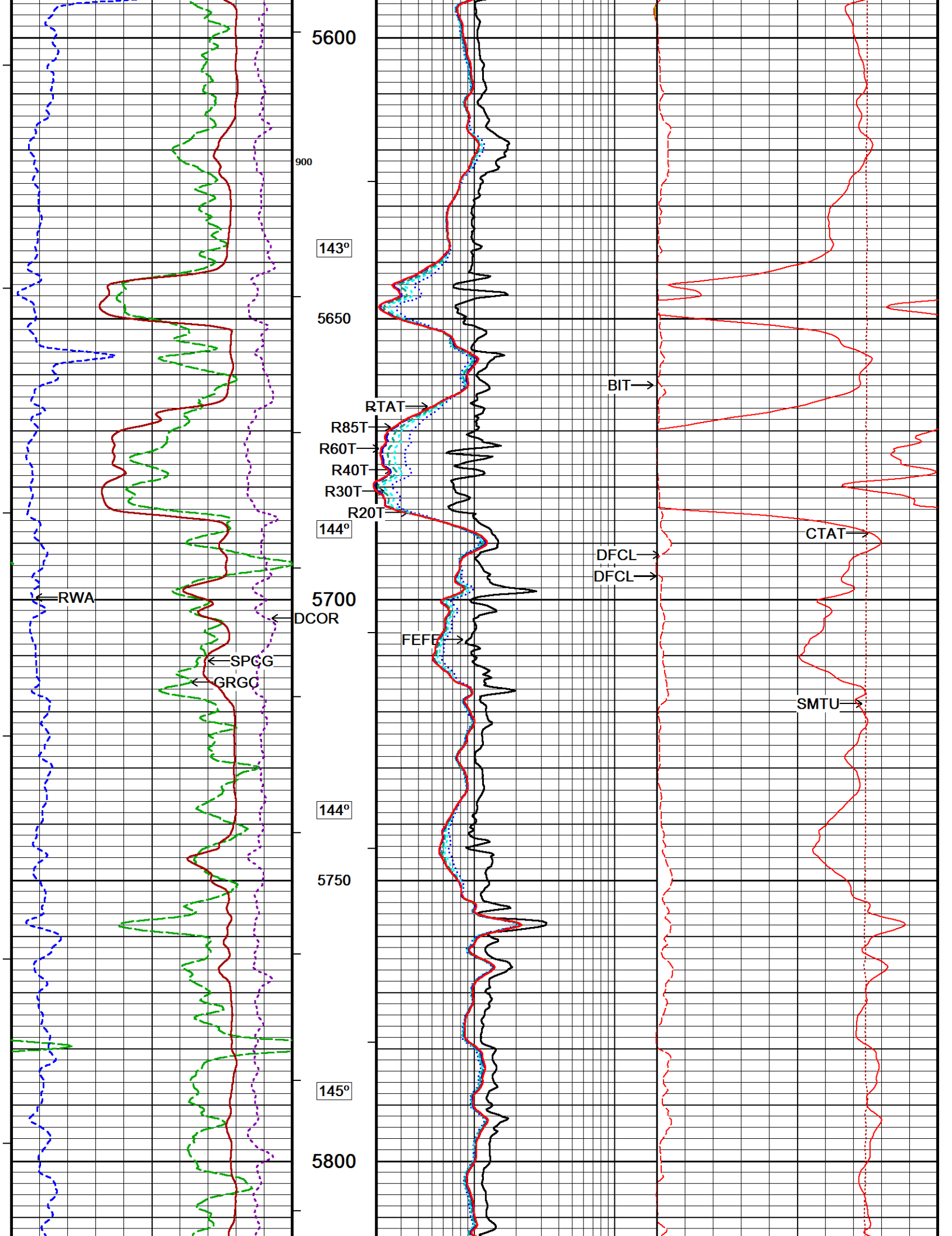
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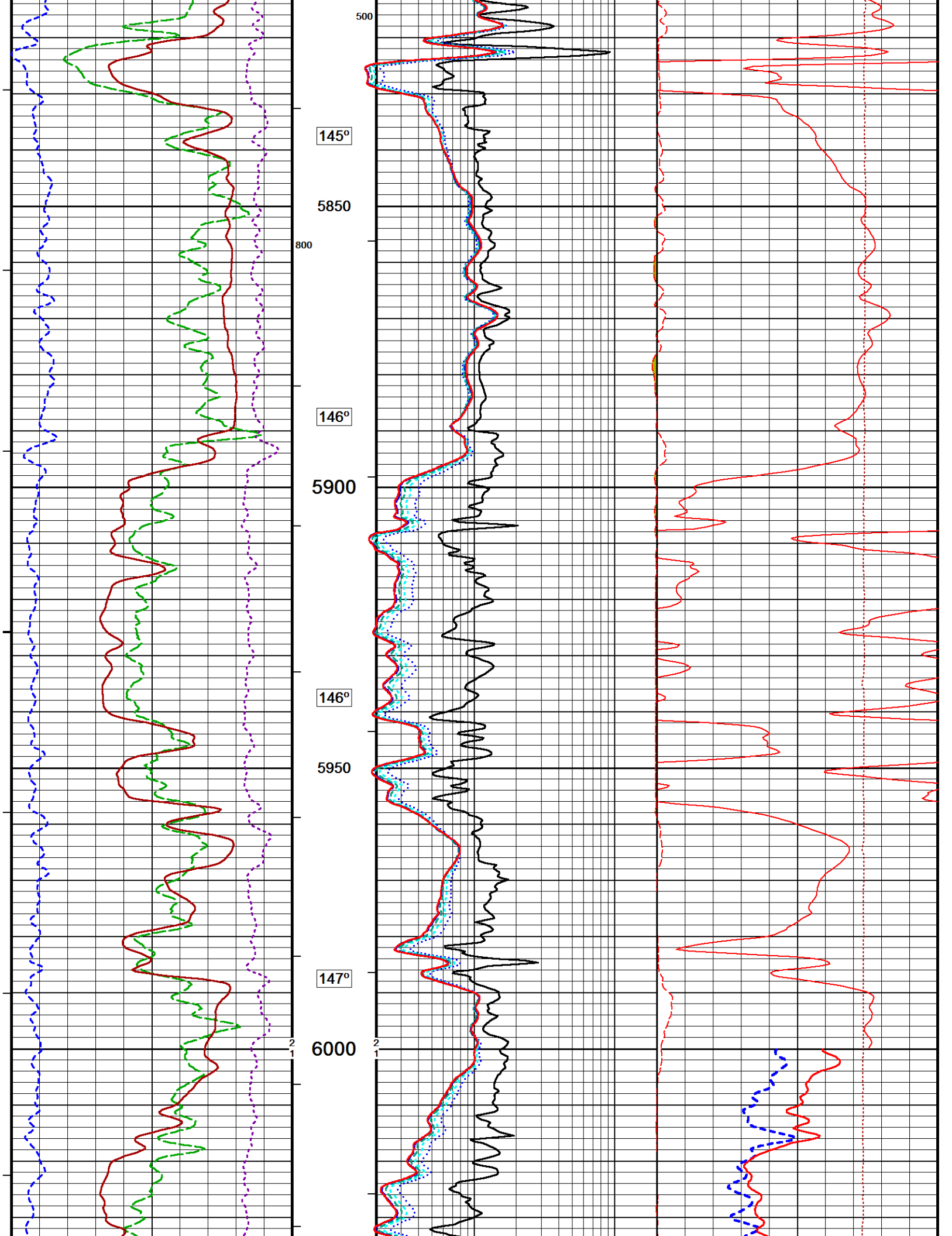
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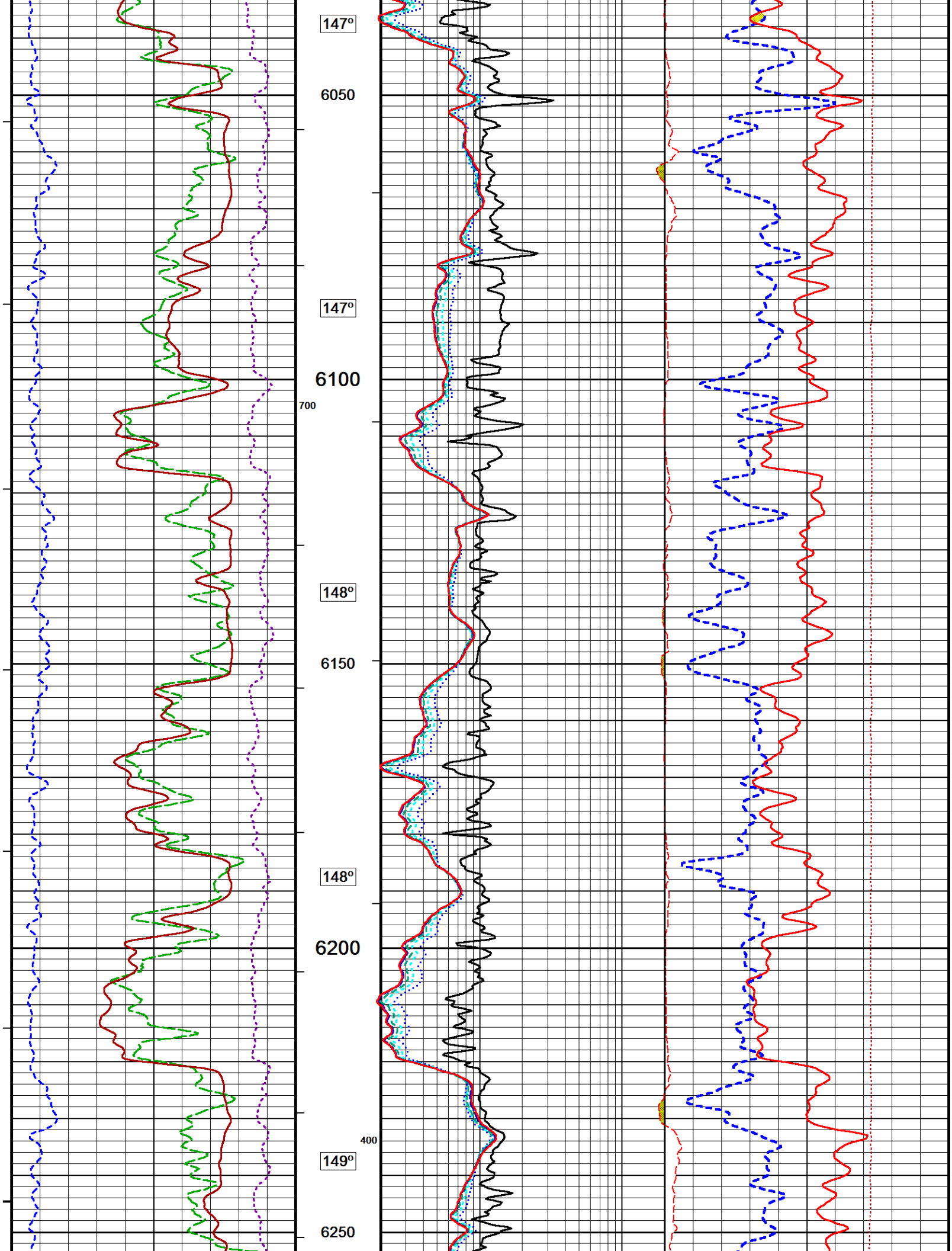
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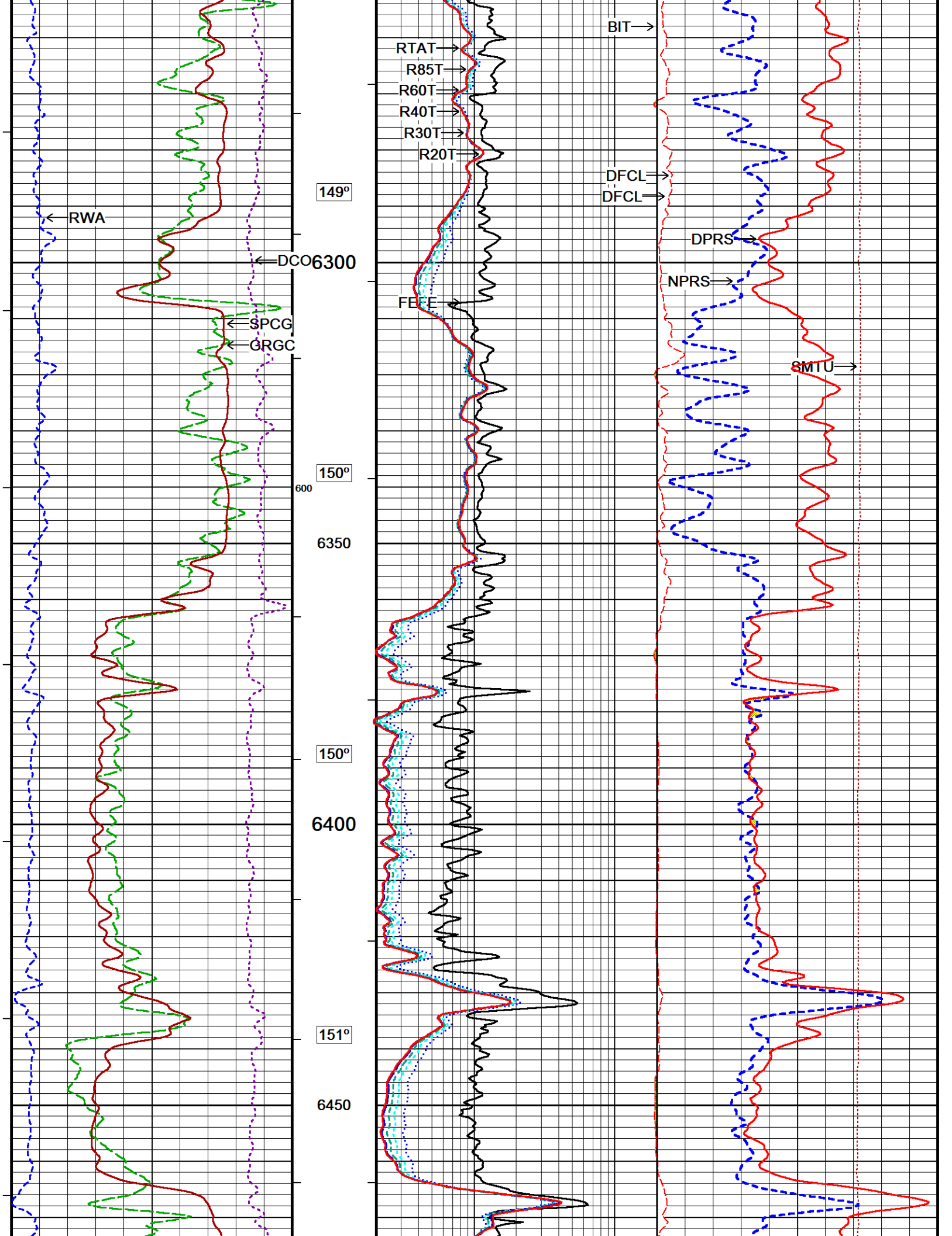
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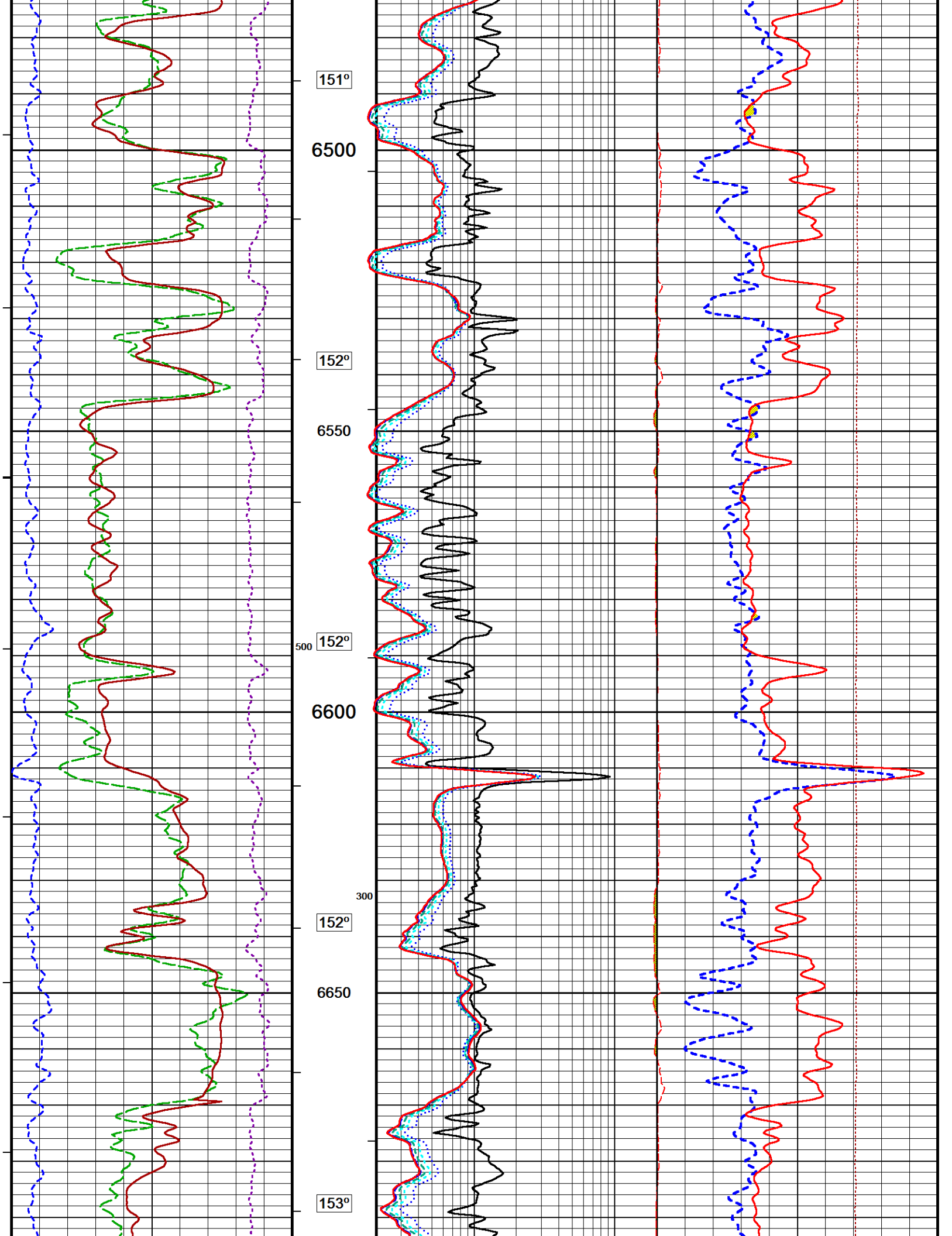
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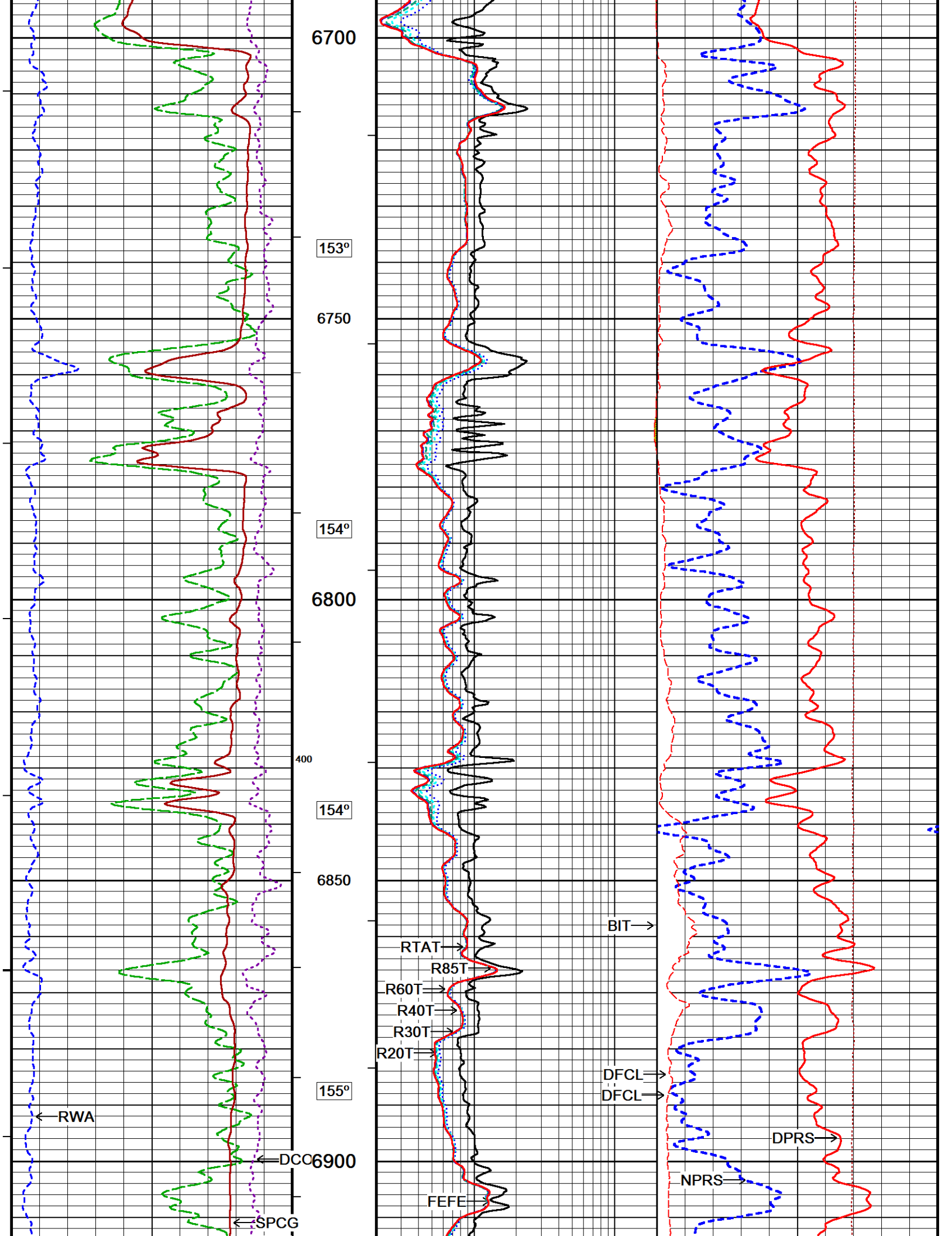
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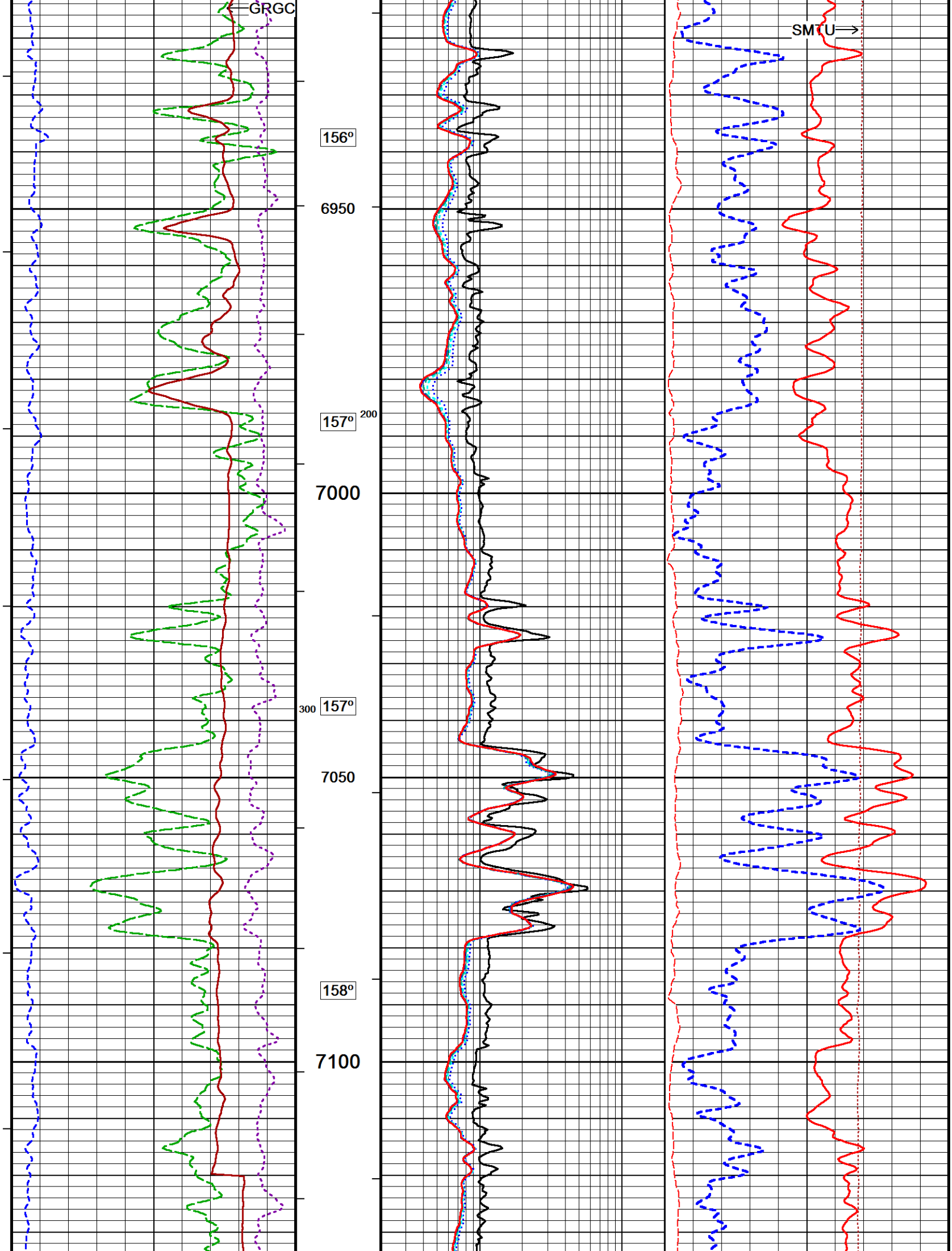
R20T
FEFE
BIT
DFCL
DFCL
DPRS
NPRS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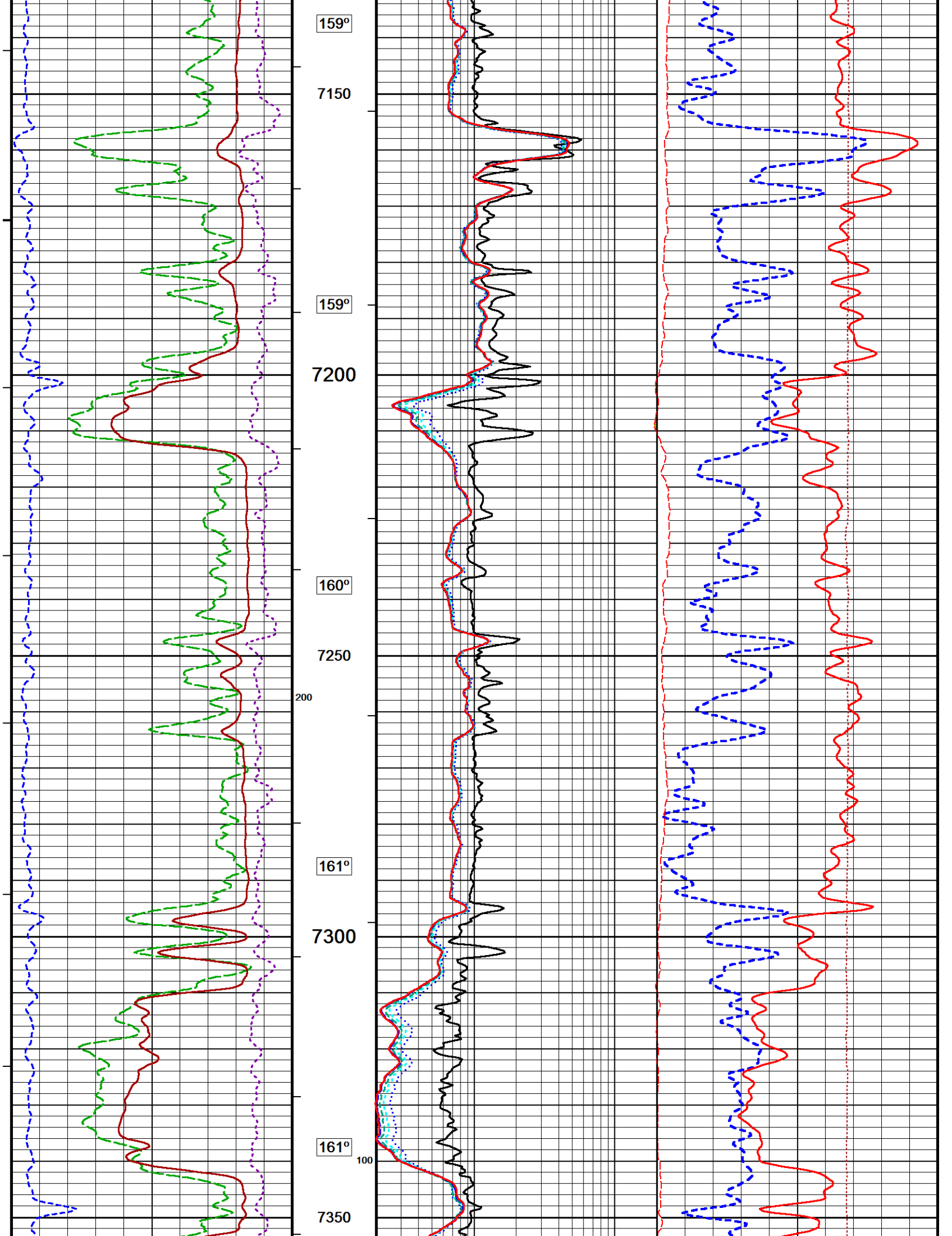
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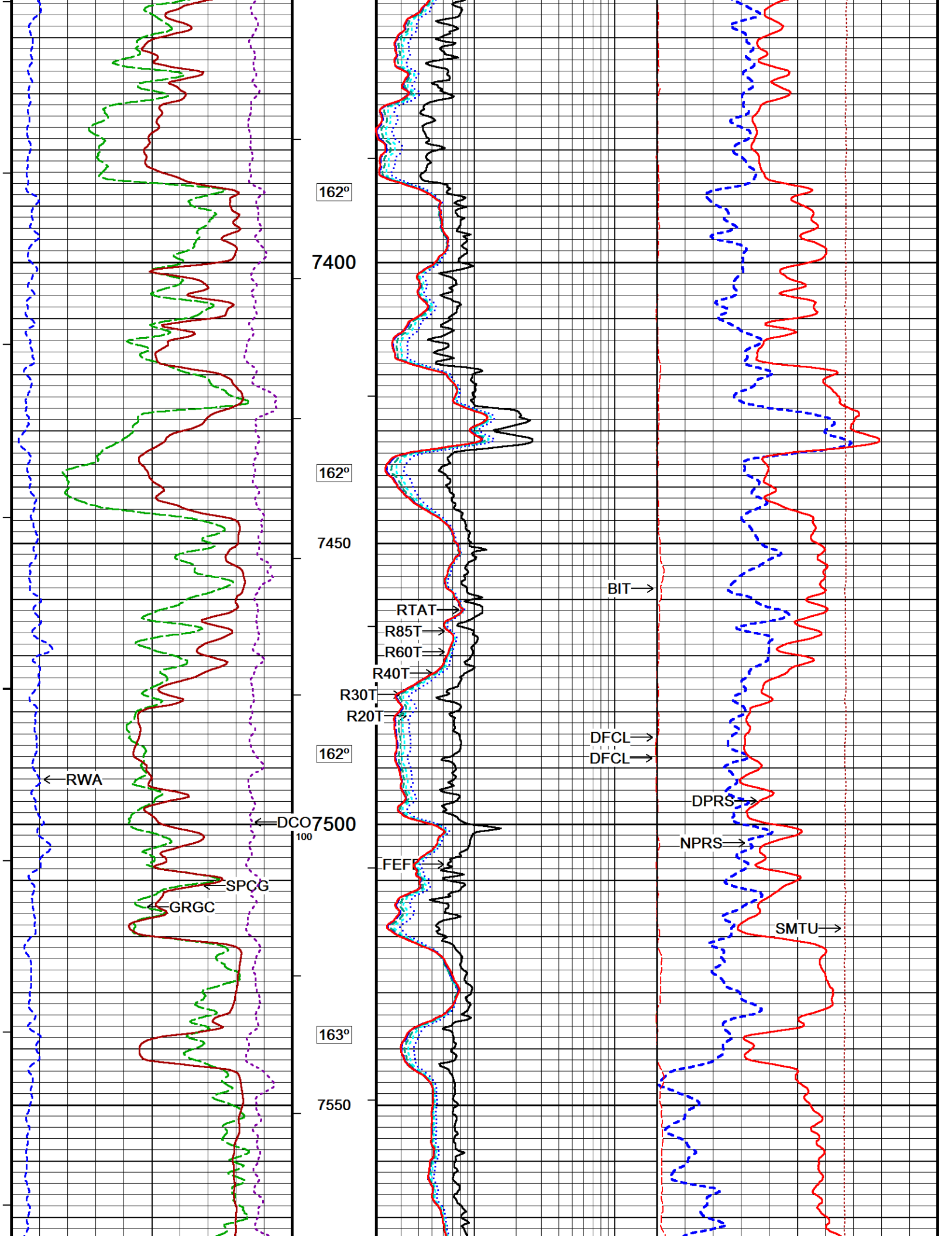
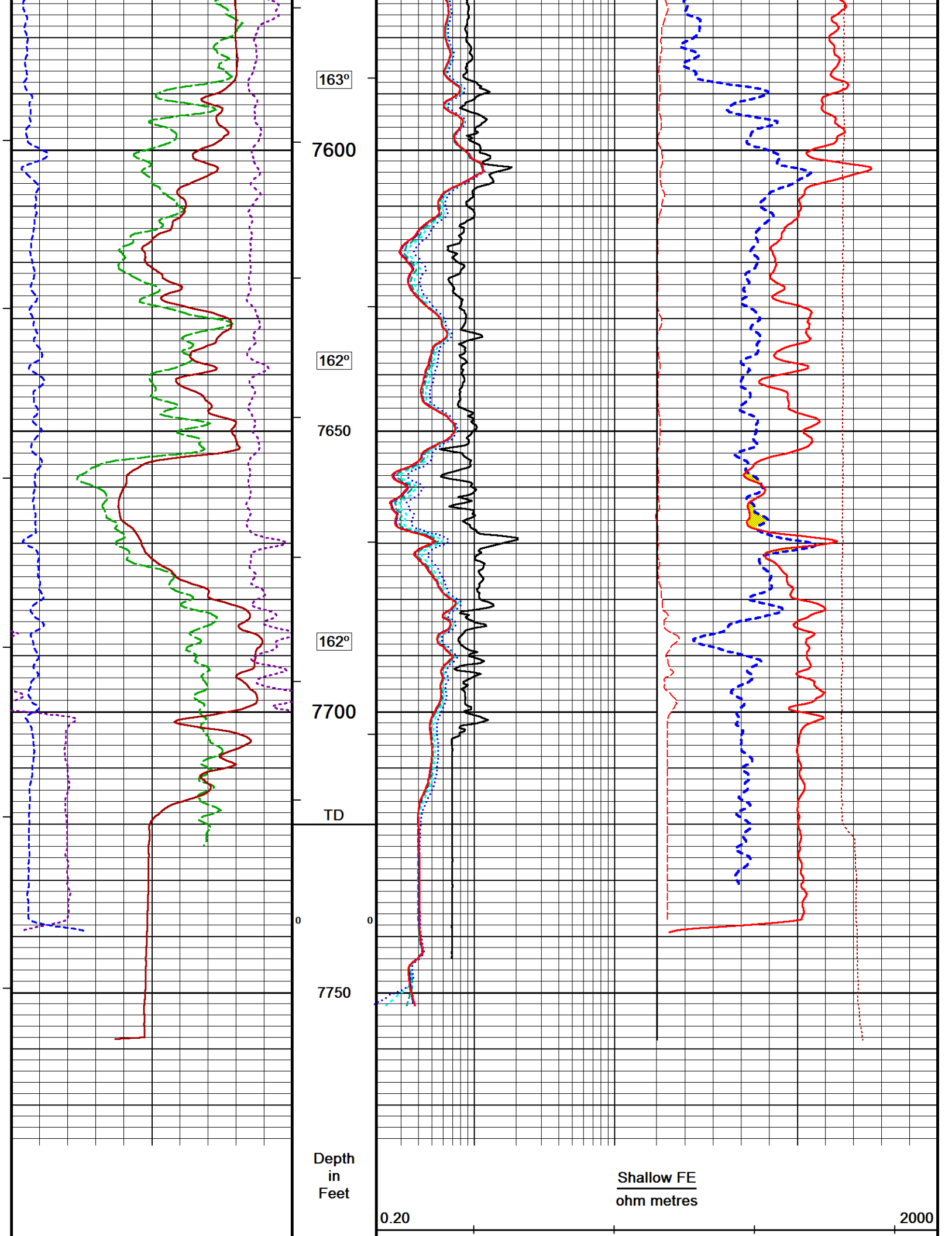
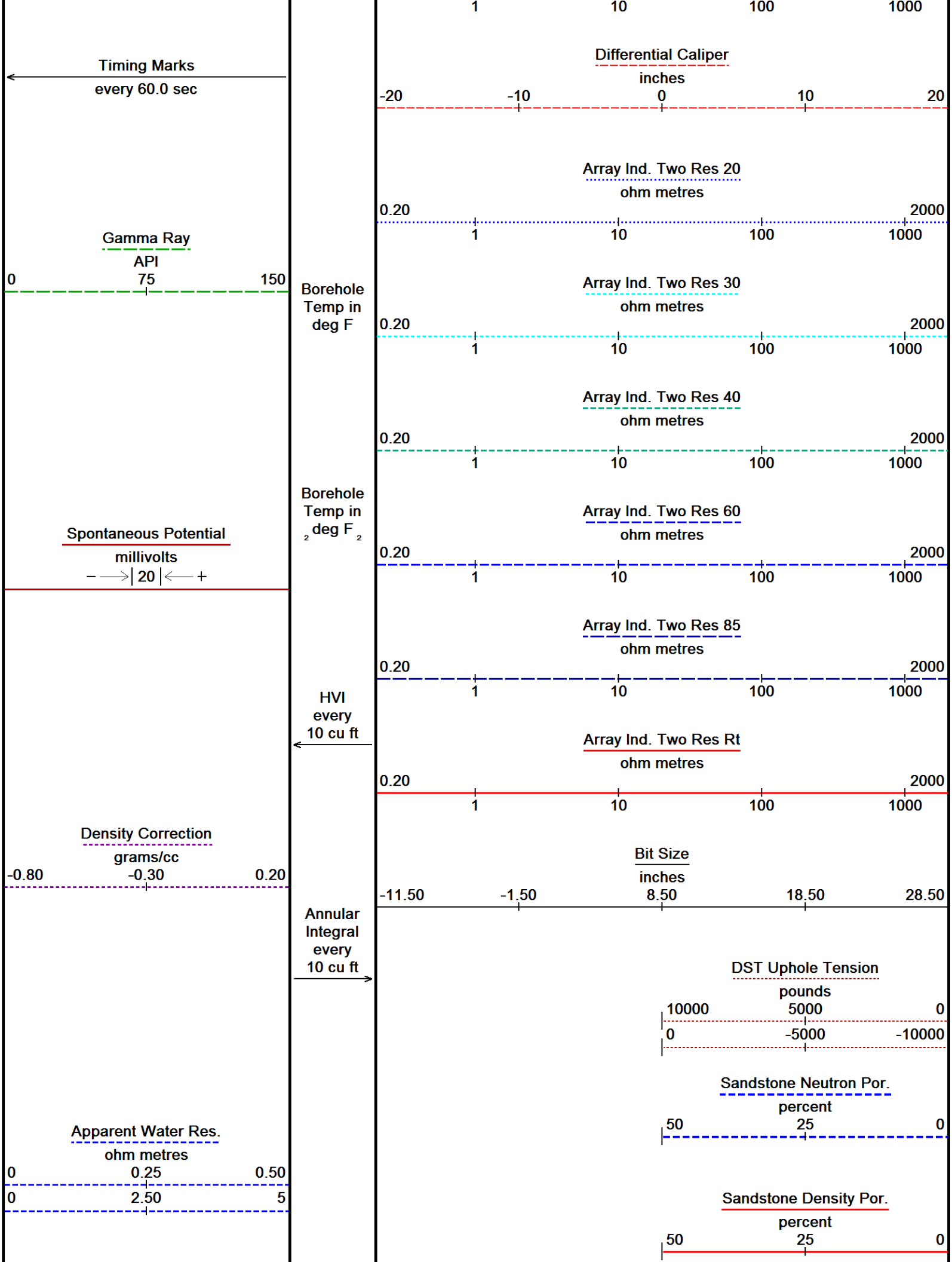
161°
100
7350


162°
7400
162°
7450
162°
7500
163°
7550
RWA
DCO100
SPCG
GRGC
RTAT
R85T
R60T
R40T
R30T
R20T
FEFE
BIT
DFCL
DFCL
DPRS
NPRS
SMTU


163°
7600
162°
7650
162°
7700
TD
0
0
7750
Depth
in
Feet
Shallow FE
ohm metres
0.20
2000


1
10
100
1000
Timing Marks
every 60.0 sec
Differential Caliper
inches
-20
-10
0
10
20
Array Ind. Two Res 20
ohm metres
0.20
2000
1
10
100
1000
Gamma Ray
API
0
75
150
Borehole Temp in deg F
Array Ind. Two Res 30
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 40
ohm metres
0.20
2000
1
10
100
1000
Borehole Temp in deg F
Spontaneous Potential
millivolts
– 20 +
Array Ind. Two Res 60
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 85
ohm metres
0.20
2000
1
10
100
1000
HVI every 10 cu ft
Array Ind. Two Res Rt
ohm metres
0.20
2000
1
10
100
1000
Density Correction
grams/cc
-0.80
-0.30
0.20
Bit Size
inches
-11.50
-1.50
8.50
18.50
28.50
Annular Integral every 10 cu ft
DST Uphole Tension
pounds
10000
5000
0
0
-5000
-10000
Sandstone Neutron Por.
percent
50
25
0
Apparent Water Res.
ohm metres
0
0.25
0.50
0
2.50
5
Sandstone Density Por.
percent
50
25
0

Replay Scale 1:240

Array Ind. Two Cond Ct
mmhos
4000 2000 0
8000 6000 4000

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 09-MAY-2014 07:17
Filename: C:\Data\13.08\Smith Produ...\Copy of Smith Production_SL 18593 #1 ALT_T Combo MD2.dta
Recorded on 09-MAY-2014 03:37
System Versions: Logged with 14.01.3016 Plotted with 14.01.3016

FIVE INCH MAIN PASS 1:240

FIVE INCH REPEAT PASS 1:240

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 09-MAY-2014 07:17
Filename: C:\Data\13.08\Smith Production Co\...\Smith Production_SL 18593 #1 ALT_T Combo MD.dta
Recorded on 09-MAY-2014 02:34
System Versions: Logged with 14.01.3016 Plotted with 14.01.3016

Depth in Feet

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150

Spontaneous Potential
millivolts
− 20 +

Borehole Temp in deg F

Borehole Temp in deg F

HVI every 10 cu ft

Shallow FE
ohm metres
0.20 1 10 100 2000

Differential Caliper
inches
-20 -10 0 10 20

Array Ind. Two Res 20
ohm metres
0.20 1 10 100 2000

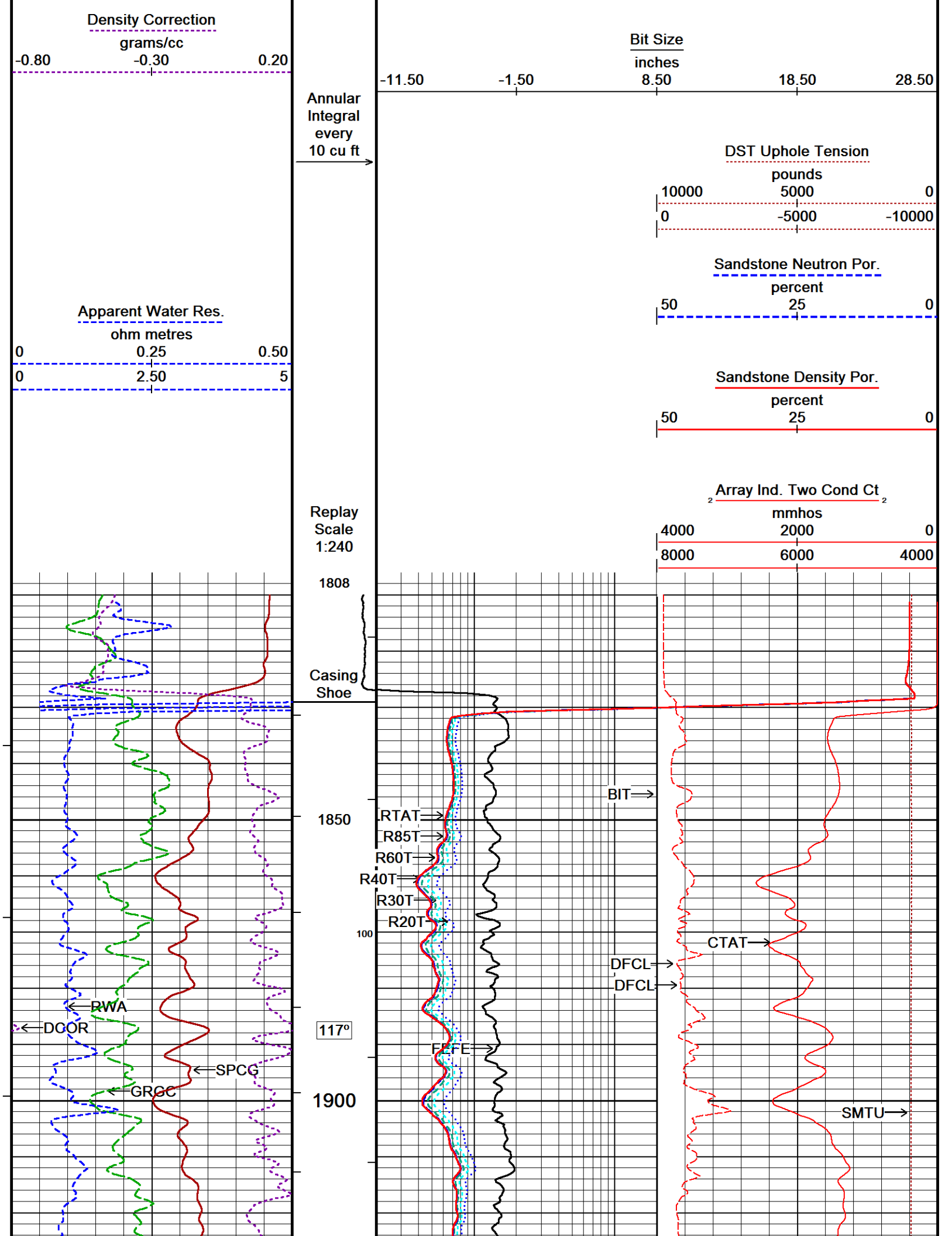
Array Ind. Two Res 30
ohm metres
0.20 1 10 100 2000

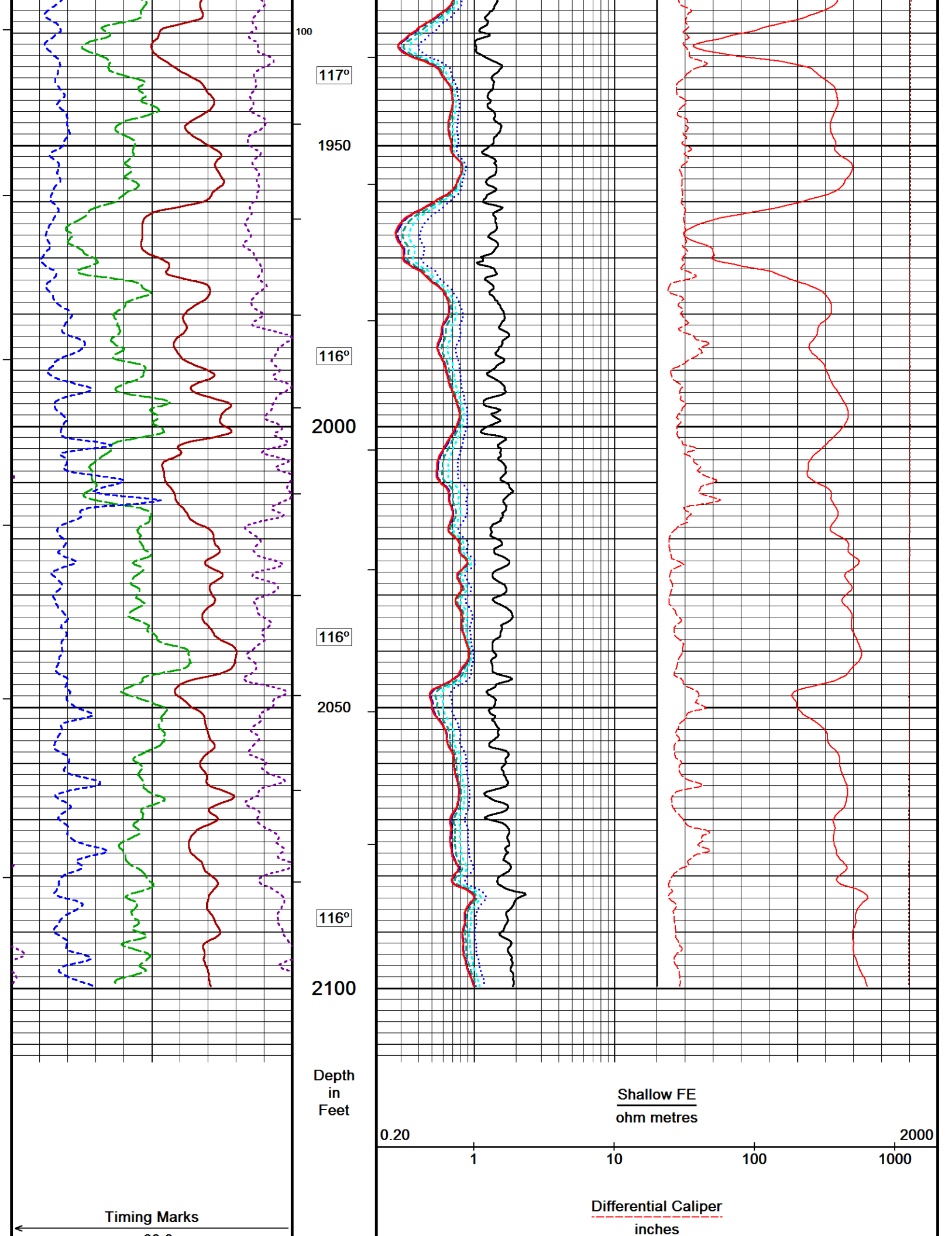
Array Ind. Two Res 40
ohm metres
0.20 1 10 100 2000

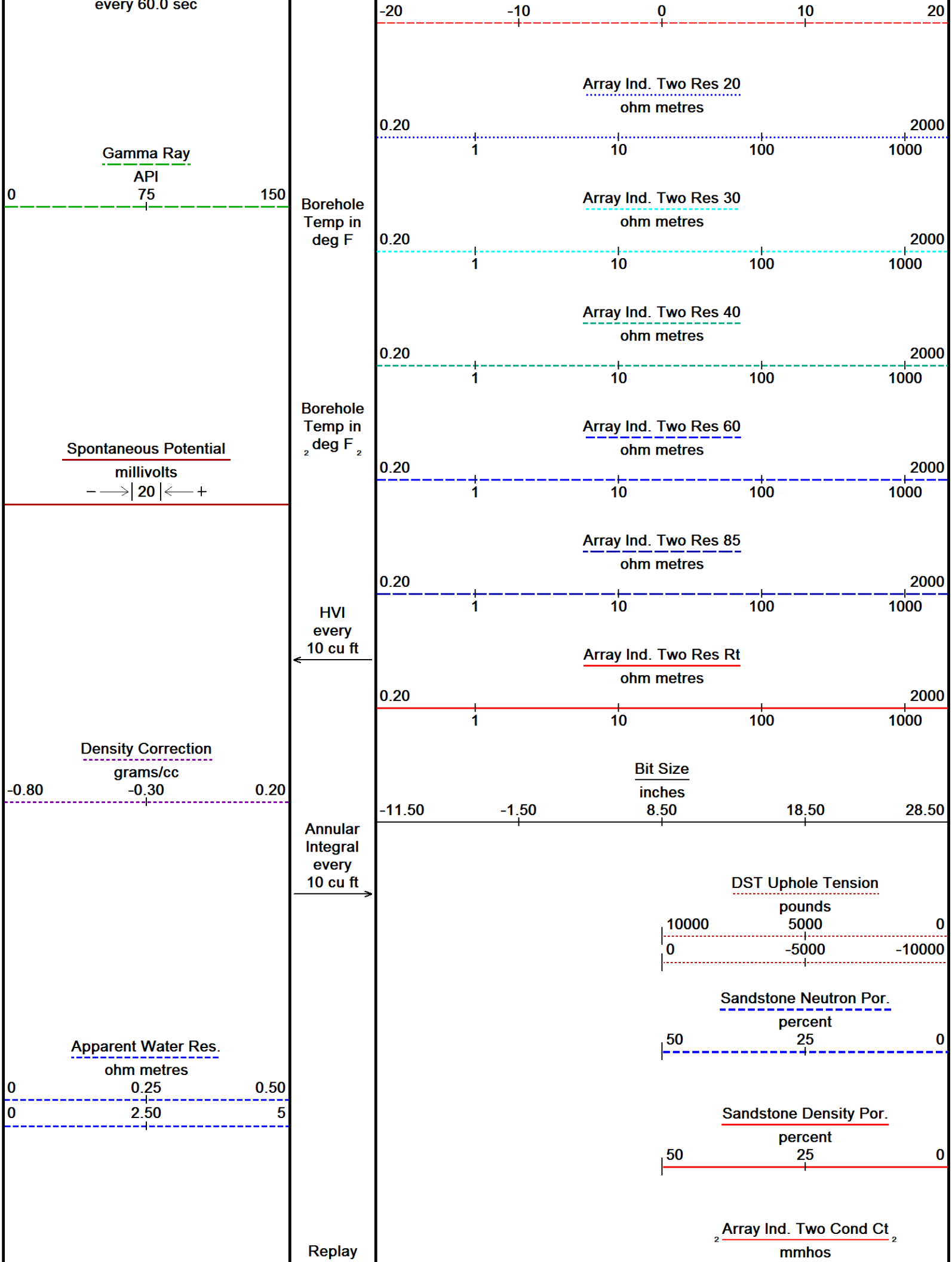
Array Ind. Two Res 60
ohm metres
0.20 1 10 100 2000

Array Ind. Two Res 85
ohm metres
0.20 1 10 100 2000

Array Ind. Two Res Rt
ohm metres
0.20 1 10 100 2000


Density Correction
grams/cc
-0.80
-0.30
0.20
Apparent Water Res.
ohm metres
0
0.25
0.50
0
2.50
5
Annular Integral every 10 cu ft
Bit Size
inches
-11.50
-1.50
8.50
18.50
28.50
DST Uphole Tension
pounds
10000
5000
0
0
-5000
-10000
Sandstone Neutron Por.
percent
50
25
0
Sandstone Density Por.
percent
50
25
0
Array Ind. Two Cond Ct
mmhos
4000
2000
0
8000
6000
4000
Replay Scale 1:240
1808
Casing Shoe
1850
1900
100
117°
RWA
DCOR
SPCG
GRCC
RTAT
R85T
R60T
R40T
R30T
R20T
FEFE
BIT
CTAT
DFCL
DFCL
SMTU


100
117°
1950
116°
2000
116°
2050
116°
2100
Depth
in
Feet
Timing Marks
Shallow FE
ohm metres
0.20
1
10
100
1000
2000
Differential Caliper
inches


every 60.0 sec
Gamma Ray
API
0
75
150
Spontaneous Potential
millivolts
– 20 +
Density Correction
grams/cc
-0.80
-0.30
0.20
Apparent Water Res.
ohm metres
0
0.25
0.50
0
2.50
5
Borehole Temp in deg F
Borehole Temp in deg F
HVI every 10 cu ft
Annular Integral every 10 cu ft
Replay
-20
-10
0
10
20
Array Ind. Two Res 20
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 30
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 40
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 60
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 85
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res Rt
ohm metres
0.20
2000
1
10
100
1000
Bit Size
inches
-11.50
-1.50
8.50
18.50
28.50
DST Uphole Tension
pounds
10000
5000
0
0
-5000
-10000
Sandstone Neutron Por.
percent
50
25
0
Sandstone Density Por.
percent
50
25
0
Array Ind. Two Cond Ct
mmhos

Scale
1:240

4000 2000 0
8000 6000 4000

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-MAY-2014 07:17
Filename: C:\Data\13.08\Smith Production Co\...\Smith Production_SL 18593 #1 ALT_T Combo MD.dta — Recorded on 09-MAY-2014 02:34
System Versions: Logged with 14.01.3016 Plotted with 14.01.3016

FIVE INCH REPEAT PASS 1:240

BEFORE SURVEY CALIBRATION

C:\Data\13.08\Smith Production Co\RA SUA; SL 18593 #1 ALT\Smith Production_SL 18593 #1 ALT_T Combo MD2.dta

General Constants All 000

Last Edited on 09-MAY-2014,02:15

General Parameters		
Mud Resistivity	1.100	ohm-metres
Mud Resistivity Temperature	75.000	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	

Gamma Calibration MCG-D.A 233

Field Calibration on 29-APR-2014 15:55

	Measured	Calibrated (API)
Background	70	47
Calibrator (Gross)	1208	811
Calibrator (Net)	1138	764

Gamma Constants MCG-D.A 233

Last Edited on 09-MAY-2014,02:15

Gamma Calibrator Number	GRC-039	
Mud Density	1.21	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-D.A 233

Field Calibration on 16-AUG-2011,21:08

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

High Resolution Temperature Constants MCG-D.A 233

Last Edited on 28-MAY-2013,11:10

Pre-filter Length	11

Neutron Calibration MDN-B.A 221

Base Calibration on 24-APR-2014 14:02
Field Check on 09-MAY-2014,02:16

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2832	85	3714	110
Ratio	33.276		33.764	

Field Calibrator at Base	Calibrated (cps)	
	1373	2061

Ratio	0.666	

Field Check	Calibrated (cps)	
	1373	2036
Ratio	0.674	

Neutron Constants MDN-B.A 221

Last Edited on 09-MAY-2014,02:16

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 05-MAY-2014 09:41
Field Check on 09-MAY-2014 01:59

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.7	126.8
Base Check		281.4
Field Check		280.9

FE Constants MFE-A.A 137

Last Edited on 09-MAY-2014,02:16

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 09-MAY-2014 01:58

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) 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) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High
1	15.5	3832.9	15.3	3832.9
2	31.5	3588.2	31.5	3588.3
3	30.0	3138.3	30.0	3138.4
4	21.1	2122.0	21.1	2122.0
Deep	19.2	2060.1	19.1	2060.2
Medium	42.9	4155.2	42.9	4155.3
Shallow	46.0	5275.6	46.0	5275.6
Array Temperature		83.3		81.5 Deg F

Induction Constants MAI-A.A 77

Last Edited on 09-MAY-2014,02:18

Induction Constants MAPA.A 77 — Last Edited on 09-MAY-2014,02:16

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 24-APR-2014 11:40; Field Check on 09-MAY-2014 02:03

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Background	1120	1345		
Reference 1	51129	22820	59553	30910
Reference 2	20856	2380	25010	2543

Field Check at Base

	1120.1	1345.1

Field Check

	1123.3	1359.4

PE Calibration

Base Calibration	Measured WS	Measured WH	Measured Ratio	Calibrated Ratio
Background	204	998		
Reference 1	21826	50945	0.433	0.371
Reference 2	6120	20727	0.300	0.273

Field Check at Base

	204.4	997.6

Field Check

	205.6	1000.8

Density Constants MPD-B 154 — Last Edited on 09-MAY-2014,02:16

Density Source Id	259
Nylon Calibrator Number	DNC-F662

Aluminium Calibrator Number	DAC-D687	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.21	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

Caliper Calibration MPD-B 154

Base Calibration on 24-APR-2014 11:20
Field Calibration on 29-APR-2014 15:15

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16224	4.00
2	24514	5.97
3	33084	7.96
4	41200	9.85
5	50496	11.91
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.96	7.96

DOWNHOLE EQUIPMENT

C:\Data\13.08\Smith Production Co\RA SUA; SL 18593 #1 ALT\Smith Production_SL 18593 #1 ALT_DL.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

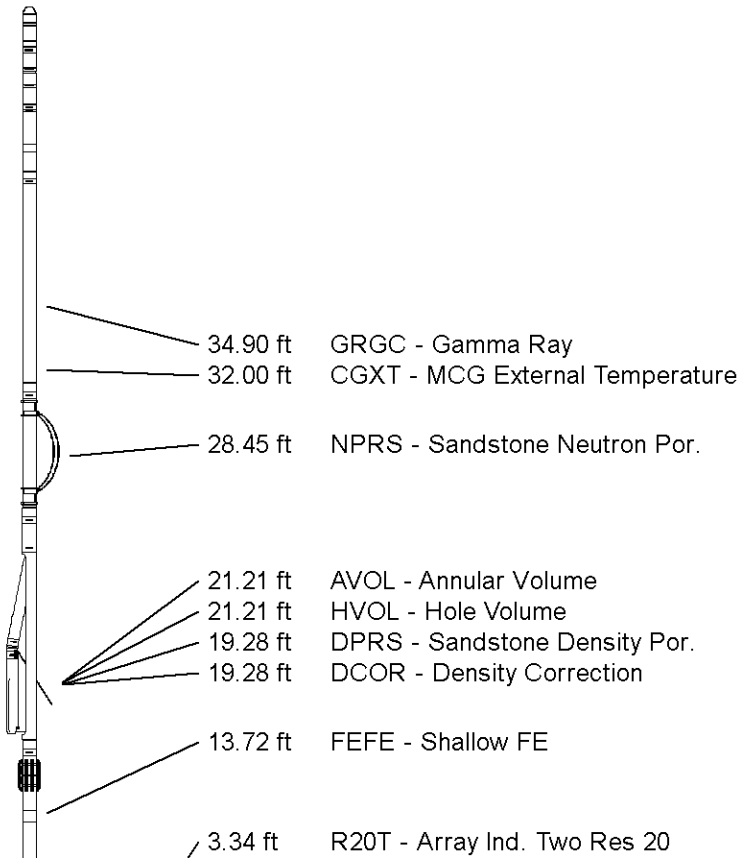
Compact Comms Gamma
MCG-D.A 233 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

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

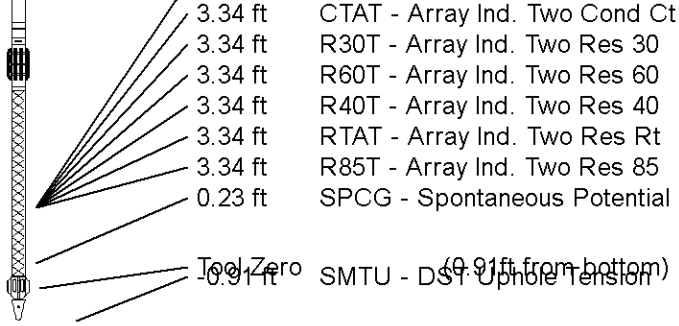
Compact Focussed Electric
MFE-A.A 137 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

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



COMPANY	SMITH PRODUCTION COMPANY
WELL	7000 RA SUA; SL 18593 #1 ALT
FIELD	GILLIS - ENGLISH BAYOU
PROVINCE/COUNTY	CALCASIEU
COUNTRY/STATE	USA / LOUISIANA

Elevation Kelly Bushing	32.00	feet	First Reading	7720.00	feet
Elevation Drill Floor	31.00	feet	Depth Driller	7720.00	feet
Elevation Ground Level	15.00	feet	Depth Logger	7720.00	feet

Weatherford®

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