

Company: Esso Australia Pty Ltd.

Well: A-7
Field: Tuna
Rig: Prod 4 / Crane
Country: Australia

Prod 4 / Crane

Tuna

Gippsland

A-7

Esso Australia Pty Ltd.

LOCATION

Gippsland Basin Bass Strait

Permanent Datum: M.S.L. Log Measured From: K.B. Drilling Measured From: K.B.

Elev.: K.B. 32.90 m G.L. -59.00 m D.F. 32.90 m

RST Sigma Survey

PLT GR/CCL/Gradio/IL-Spinner/FB-Spinner

Dual DEFT/ Pressure/ Temperature

State: Victoria

Max. Well Deviation 52.1 deg

Longitude 148° 25' 05.29"E

Latitude 38° 10' 16.00"S

Logging Date	15-Dec-2009			
Run Number	1			
Depth Driller	2917 m			
Schlumberger Depth	2751 m			
Bottom Log Interval	2751 m			
Top Log Interval	2050 m			
Casing Fluid Type	Production Fluids			
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size	8.500 in			
From	1897 m			
To	2918 m			
Casing/Tubing Size	7.000 in			
Weight	34.6 lbm/ft			
Grade	13CR			
From	1750 m			
To	2832 m			
Maximum Recorded Temperatures	234 degF			
Logger On Bottom	15-Dec-2009	Time	11:00	
Unit Number	889	Location	Prod 4 / AUSSL	
Recorded By	Owen Darby			
Witnessed By	David Madden			

PVT DATA				Run 1	Run 2	R
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation				52.1 deg		
CEMENTING DATA						
Primary/Squeeze				Primary		
Casing String No						
Lead Cement Type						
Volume						
Density						
Water Loss						
Additives						
Tail Cement Type						
Volume						
Density						
Water Loss						
Additives						
Expected Cement Top						
Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Fluid Type						
Salinity						
Density						
Fluid Level						
BIT/CASING/TUBING STRING						
Bit Size						
From						
To						
Casing/Tubing Size						
Weight						
Grade						
From						
To						
Maximum Recorded Temperatures						
Logger On Bottom				Time		
Unit Number				Location		
Recorded By						
Witnessed By						

Date Created: 26-DEC-2009 10:21:53

Logging Cable

Type:	2-32ZT
Serial Number:	207505
Length:	6401 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

WPRES sensor when passing 1750m (can be seen on first GR-RST pass)

Static:










Log PLT/RST (sigma) upwards pass over interval 2751m – 2050m @ 5m/min

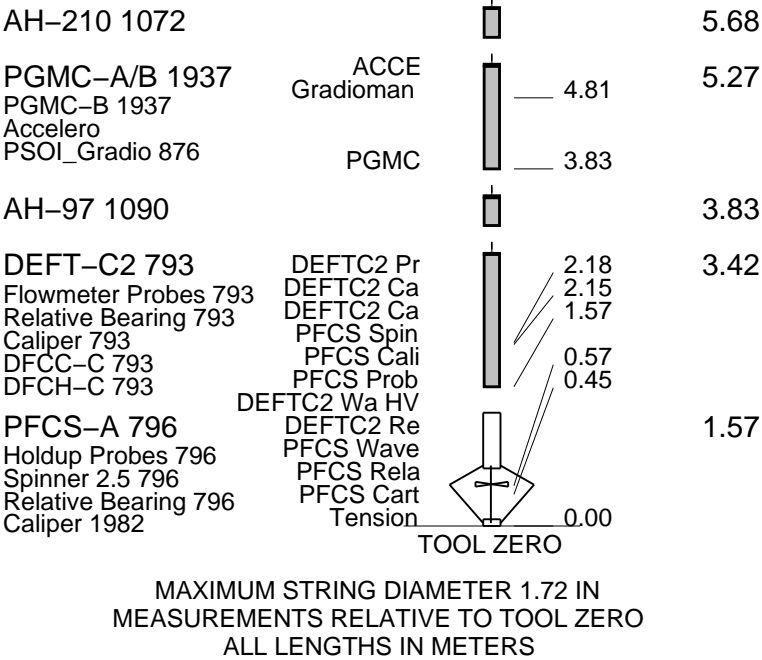
Note: RST data only required over interval 2751m–2125m.

Flowing:
interval 2751m–2125m @ 5m/min – RST interval same as static passes.
Complete PLT/RST downwards logging pass over interval 2116m – 2750m. Shut in well pull toolstring inside tubing shoe – RST interval same as static passes.
Flow well, wait until stabilized and complete PLT upwards pass over interval 2095.7m–2050m @ 5m/min, complete downwards pass over interval 2050–2095.7 @ 10m/min shut in well POOH.

RUN 1 SERVICE ORDER #: PROGRAM VERSION: 17C0-154 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION
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RUN 1		RUN 2	
SURFACE EQUIPMENT			
WITM-A 1835 PSC_16MHZ 1835			
DOWNHOLE EQUIPMENT			
AH-SWBS-B 785 AH-SWBS-B 785			19.76
AH-SWBS-B 786 AH-SWBS-B 786			19.08
AH-SWBS-B 787 AH-SWBS-B 787			18.39
AH-SWBS-B 788 AH-SWBS-B 788			17.70
AH-SWBS-B 789 AH-SWBS-B 789			17.02
MH-SWHS-A 759	Detail MT TelStatus CTEM		16.33
PSPT-A/B 1835 PSC-A 1835 PSPT-B 1835 PSTC 1835 PBMS-B 1835 CQG_F_Mano 1835 RTD Thermometer 1835 GR 1835 PBMS PSTC			15.99
			15.99
			14.86
			13.93
			13.82
			13.70
			13.47
PILS-A 839 PILS-A 839 Spinner			13.47
			12.97
RST-C 111 RSCH-A 111 RSC-C 111 RSS-A 108 RSXH-A 145 RSX-C 145			12.70
			9.92
			9.77



Client: Esso Australia Pty Ltd

Well: TNA A1L

Field: Tuna

State: Victoria

Country: Australia

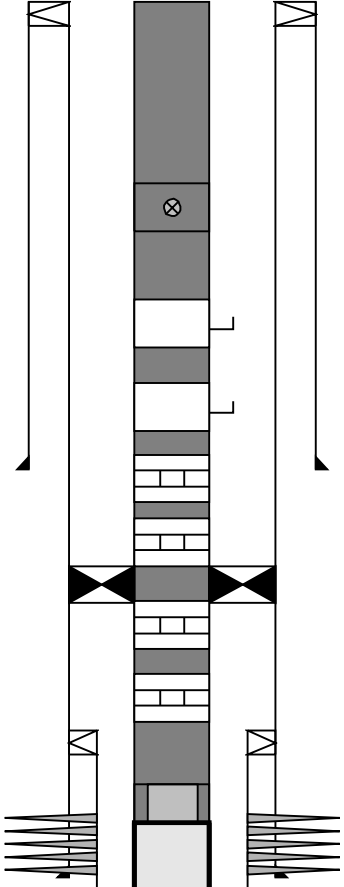
Rig Name: Platform

Reference Datum: Mean Sea Level

Elevation: 32.9 m

Drawing Date: 12/20/2009

API #:

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing	3.500		14.0		14.0	13.375		Casing String Liner Hanger
					14.0	13.375	9.625	
SSSV	3.500		449.0					
Gas Lift Mandrel	3.500		1194.0					
Gas Lift Mandrel	3.500		1205.0					
Landing Nipple	3.500		1221.0		903.0	13.375		Casing Shoe
Landing Nipple	3.500		1697.0					
Dual Packer	9.625	3.500	1924.0					
Landing Nipple	3.500		1928.0					
Landing Nipple	3.500		1942.0					
					1936.0	7.000		Casing String Liner Hanger
Tubing patch	3.500	2.250	2408.0		1936.0	9.625	7.000	
Blast Joint	3.500		2401.0		2405.0			Perforation Zone
					2037.0	9.625		Casing Shoe

Log Pass (down)	PLT Spinner Calibration	15-Dec-2009 14:28	000:11	2181.8 - 2300.8	FCS_ILS_DEFT_GMS_045LDP
Log Pass (up)	PLT Spinner Calibration	15-Dec-2009 14:39	000:10	2301.8 - 2184.5	FCS_ILS_DEFT_GMS_046LUP
Log Pass (down)	PLT Spinner Calibration	15-Dec-2009 14:49	000:06	2183.1 - 2300.3	FCS_ILS_DEFT_GMS_047LDP
Log Pass (up)	PLT Spinner Calibration	15-Dec-2009 14:55	000:06	2300.3 - 2180.7	FCS_ILS_DEFT_GMS_048LUP
Log Pass (down)	RST GR pass 2111 - 2751m	16-Dec-2009 10:47	000:34	2092.3 - 2751.3	FCS_DEFT_GMS_RST_102LDP
Station Log	Well flowing record	16-Dec-2009 11:21	002:27	2751.3	FCS_DEFT_GMS_RST_103LTP
Log Pass (up)	RST / PLT flowing pass 2145 - 2751m @ 980 ft/hr	16-Dec-2009 13:49	002:01	2751.3 - 2123.8	FCS_DEFT_GMS_RST_104LUP
Log Pass (down)	PLT flowing pass 2145 - 2751m @ 1970 ft/hr	16-Dec-2009 15:51	001:01	2123.8 - 2751.1	FCS_DEFT_GMS_RST_105LDP
Log Pass (up)	RST / PLT flowing pass 2145 - 2751m @ 980 ft/hr	16-Dec-2009 16:56	001:59	2751.1 - 2122.6	FCS_DEFT_GMS_RST_106LUP
Station Log	Well flowing record in EOT	16-Dec-2009 19:27	000:23	2086.6	FCS_DEFT_GMS_RST_110LTP
Log Pass (up)	PLT flowing pass 2050 - 2095m @ 980 ft/hr	16-Dec-2009 19:51	000:10	2086.5 - 2024.5	FCS_DEFT_GMS_RST_111LUP
Log Pass (down)	PLT flowing pass 2050 - 2095m @ 1970 ft/hr	16-Dec-2009 20:01	000:06	2024.6 - 2095.3	FCS_DEFT_GMS_RST_112LDP

Schlumberger

**PLT flowing down pass @ 1970 ft/hr
2050 – 2095m MDKB**

MAXIS Field Log

Input DLIS Files

DEFAULT Flip_FCS_DEFT_GMS_043LUP PRODUCER 16-Dec-2009 21:28

Output DLIS Files

DEFAULT FCS_DEFT_GMS_RST_047PUP FN:41 PRODUCER 16-Dec-2009 21:35 2095.0 M 2049.8 M

OP System Version: 17C0-154

PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

PIP SUMMARY

Time Mark Every 60 S

**Well Temperature
(WTEP)
(DEGF)**

**Well Temperature Gradient (WTGR)
(DC/M)**

**Well Fluid Density (WFDE)
(G/C3)**

**Amplified Well Pressure (WPRE)
(PSIA)**

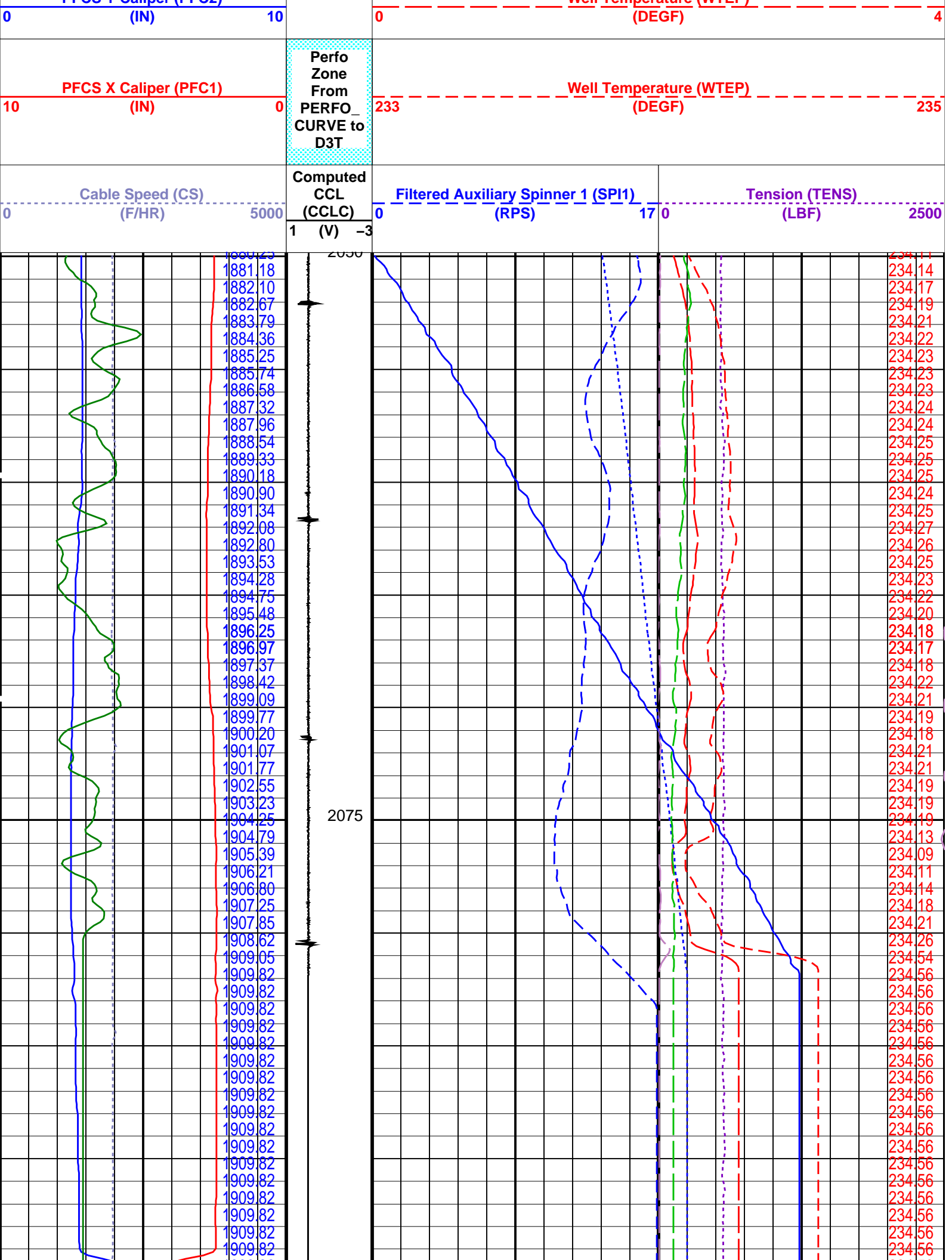
**Well Pressure (WPRE)
(PSIA)**

Well Temperature (WTEP)

**Well Pressure
(WPRE)
(PSIA)**

**Gamma Ray (GR)
(GAPI)**

PECS Y Caliner (PEC2)



Cable Speed (CS) (F/HR)			1909182	5000	Computed CCL (CCLC) (V) -3	Filtered Auxiliary Spinner 1 (SPI1) (RPS)		0	17	Tension (TENS) (LBF)		0	234156	2500				
PFCS X Caliper (PFC1) (IN)				10	0	Perfo Zone From PERFO_CURVE to D3T	Well Temperature (WTEP) (DEGF)								233	235		
PFCS Y Caliper (PFC2) (IN)				0	10		Well Temperature (WTEP) (DEGF)								0	4		
Gamma Ray (GR) (GAPI)				0	150		Well Pressure (WPRE) (PSIA)								1880	1920		
Well Pressure (WPRE) (PSIA)								Amplified Well Pressure (WPRE) (PSIA)								0	200	
								Well Fluid Density (WFDE) (G/C3)								0	2	
								Well Temperature Gradient (WTGR) (DC/M)								0	10	
								Well Temperature (WTEP) (DEGF)										

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1_1 Vertical Scale: 1:200

Graphics File Created: 16-Dec-2009 21:35

OP System Version: 17C0-154

PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
PGMC-A/B: PSP Gradiomanometer Measurement Module		
PDSH	Gradio Correction Density Shift	0 G/C3
RST-C: Reservoir Saturation Pro Tool C		
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
PILS-A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
PSPT-A/B: Production Services Logging Platform		
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
System and Miscellaneous		
DO	Depth Offset for Playback	0.2 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT	Flip_FCS_DEFT_GMS_043LUP	PRODUCER	16-Dec-2009 21:28
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Output DLIS Files

DEFAULT	FCS_DEFT_GMS_RST_047PUP	FN:41	PRODUCER	16-Dec-2009 21:35
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MAXIS Field Log

Input DLIS Files

FCS_DEFT_GMS_RST_111LUP

FN:115

16-Dec-2009 20:23

2086.5 M

2024.5 M

Output DLIS Files

DEFAULT

FCS_DEFT_GMS_RST_042PUP

FN:37

PRODUCER

16-Dec-2009 21:14

2088.3 M

2049.9 M

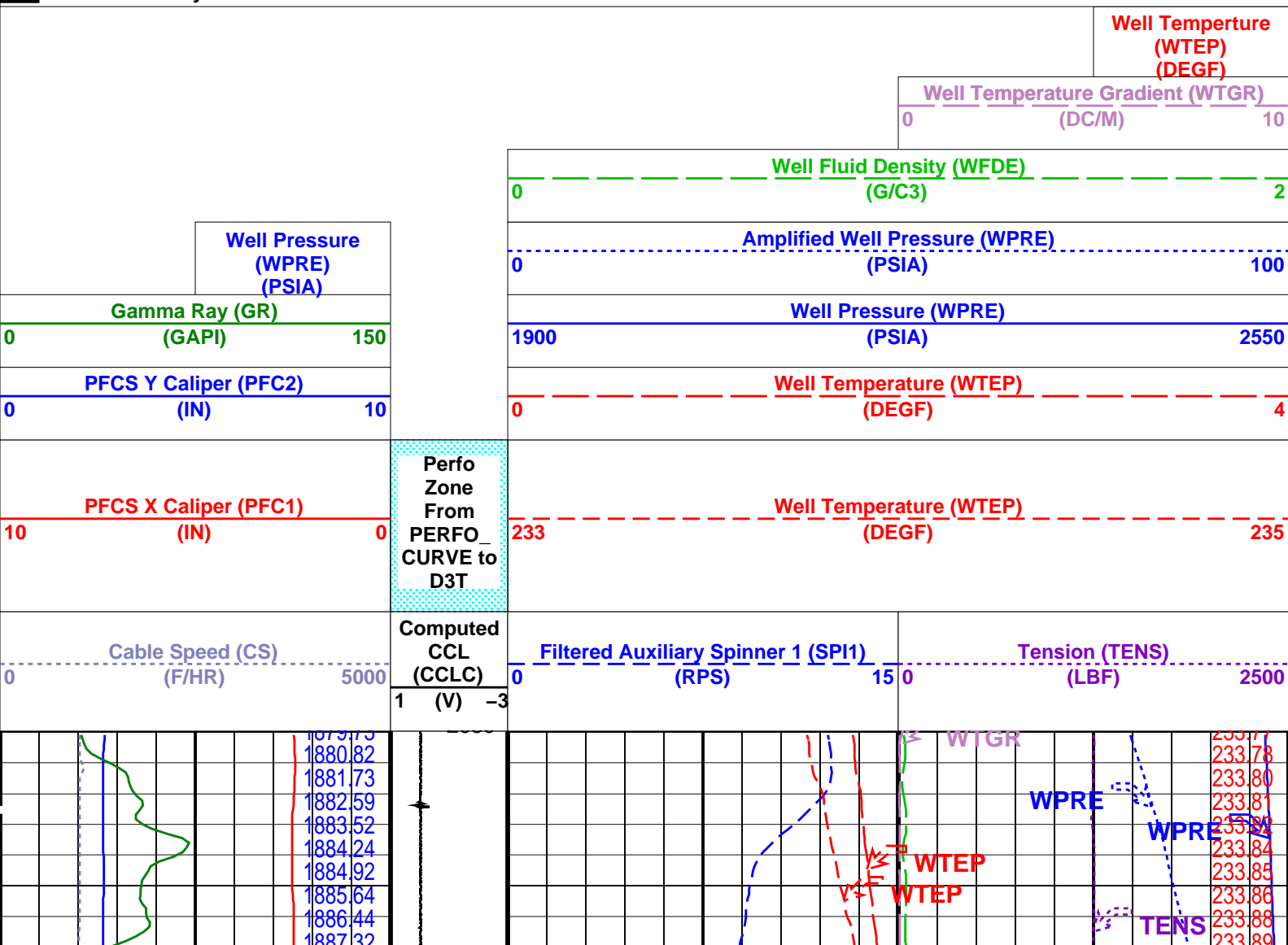
OP System Version: 17C0-154

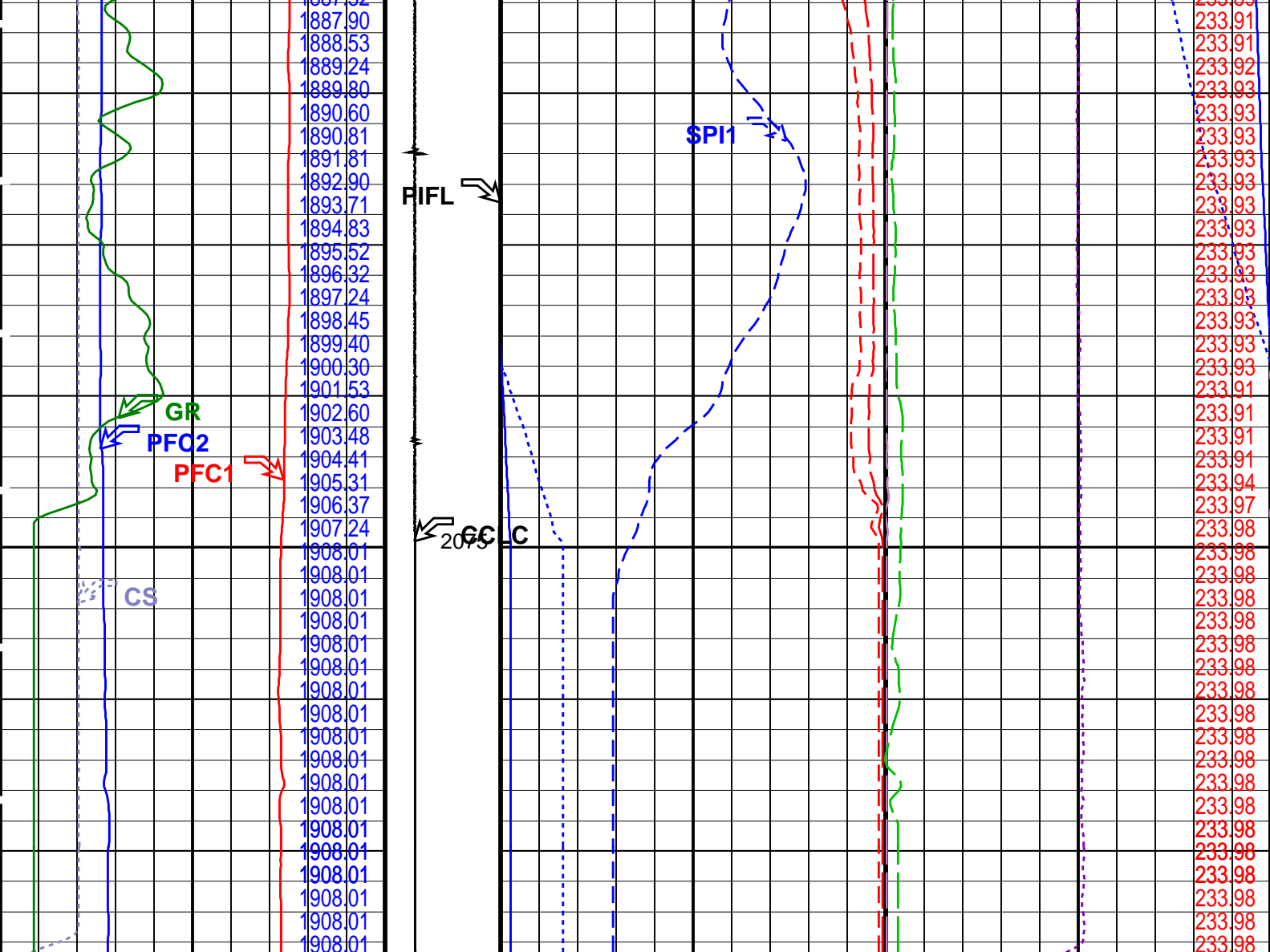
PFCS-A 17C0-154
PGMC-A/B 17C0-154
PILS-A 17C0-154

DEFT-C2 17C0-154
RST-C 17C0-154
PSPT-A/B 17C0-154

PIP SUMMARY

Time Mark Every 60 S





Cable Speed (CS) (F/HR)		Computed CCL (CCLC)	Filtered Auxiliary Spinner 1 (SPI1) (RPS)	Tension (TENS) (LBF)
0 5000		1 (V) -3	0 15	0 2500

<div>PFCS X Caliper (PFC1)</div> <div>10 (IN) 0</div>		<div>Perfo Zone From PERFO_ CURVE to D3T</div>	<div>Well Temperature (WTEP)</div> <div>233 (DEGF) 235</div>	
<div>PFCS Y Caliper (PFC2)</div> <div>0 (IN) 10</div>			<div>Well Temperature (WTEP)</div> <div>0 (DEGF) 4</div>	
<div>Gamma Ray (GR)</div> <div>0 (GAPI) 150</div>			<div>Well Pressure (WPRE)</div> <div>1900 (PSIA) 2550</div>	
<div>Well Pressure (WPRE) (PSIA)</div>			<div>Amplified Well Pressure (WPRE)</div> <div>0 (PSIA) 100</div>	
			<div>Well Fluid Density (WFDE)</div> <div>0 (G/C3) 2</div>	
			<div>Well Temperature Gradient (WTGR)</div> <div>0 (DC/M) 10</div>	
			<div>Well Temperature (WTEP) (DEGF)</div>	

OP System Version: 17C0-154

PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
PGMC-A/B: PSP Gradiomanometer Measurement Module		
PDSH	Gradio Correction Density Shift	0 G/C3
RST-C: Reservoir Saturation Pro Tool C		
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
PILS-A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
PSPT-A/B: Production Services Logging Platform		
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
System and Miscellaneous		
DO	Depth Offset for Playback	1.9 M
PP	Playback Processing	NORMAL

Input DLIS Files

FCS_DEFT_GMS_RST_111LUP	FN:115	16-Dec-2009 20:23	2086.5 M	2024.5 M
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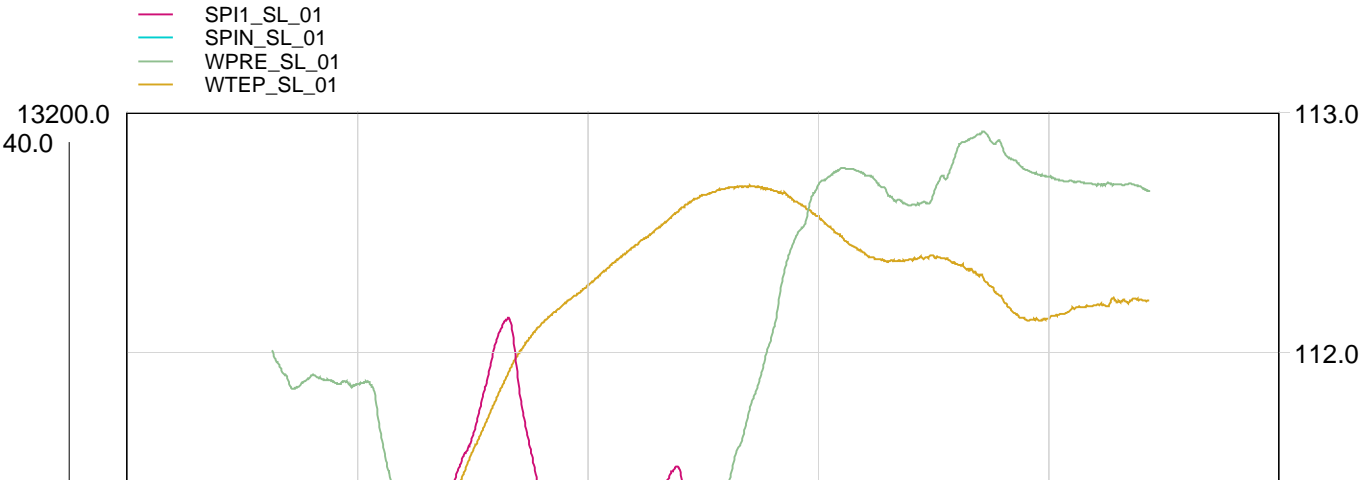
Output DLIS Files

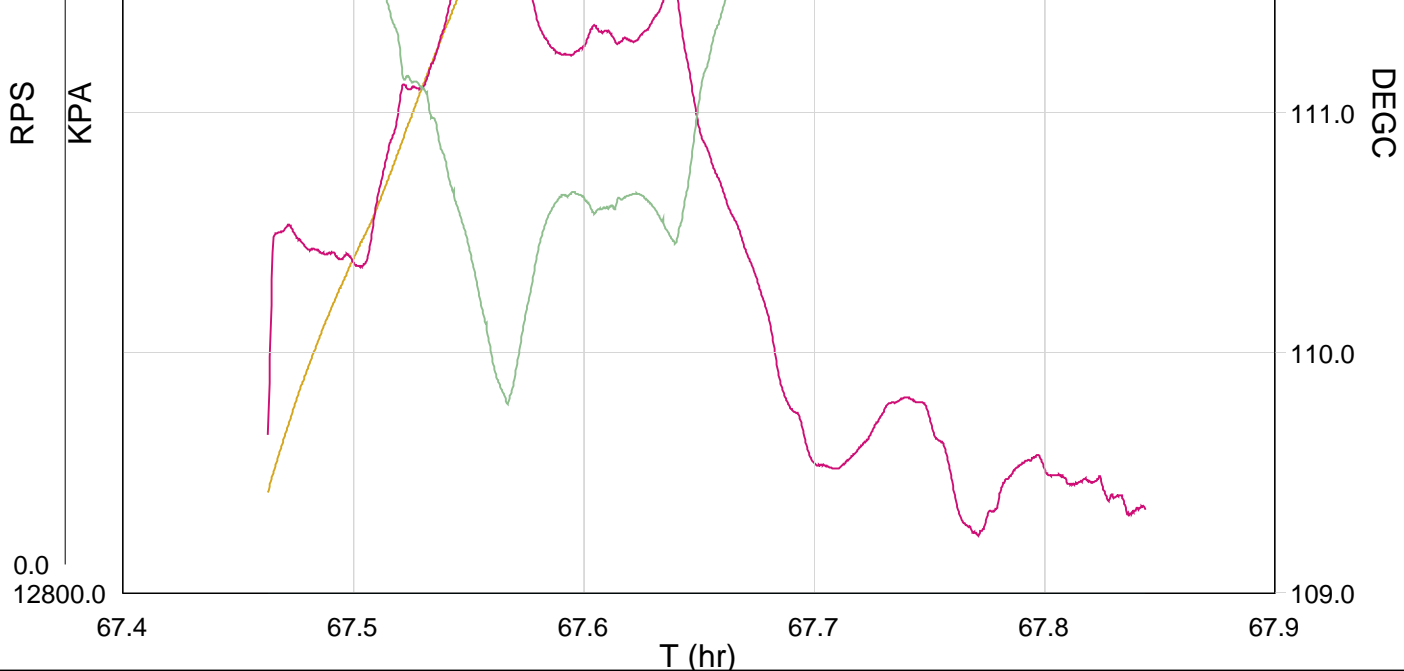
DEFAULT	FCS_DEFT_GMS_RST_042PUP	FN:37	PRODUCER	16-Dec-2009 21:14
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Well flow record inside EOT
@ 2095m MDKB

MAXIS Field Log





Schlumberger

RST SIGMA flowing @ 980 ft/hr
Pass # 2 / 2145 – 2751m MDKB

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-7

Input DLIS Files

FCS_DEFT_GMS_RST_106LUP	FN:105	16-Dec-2009 20:24	2751.1 M	2122.6 M
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Output DLIS Files

DEFAULT	FCS_DEFT_GMS_RST_037PUP	FN:32	PRODUCER	16-Dec-2009 20:43	2751.9 M	2123.4 M
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OP System Version: 17C0-154

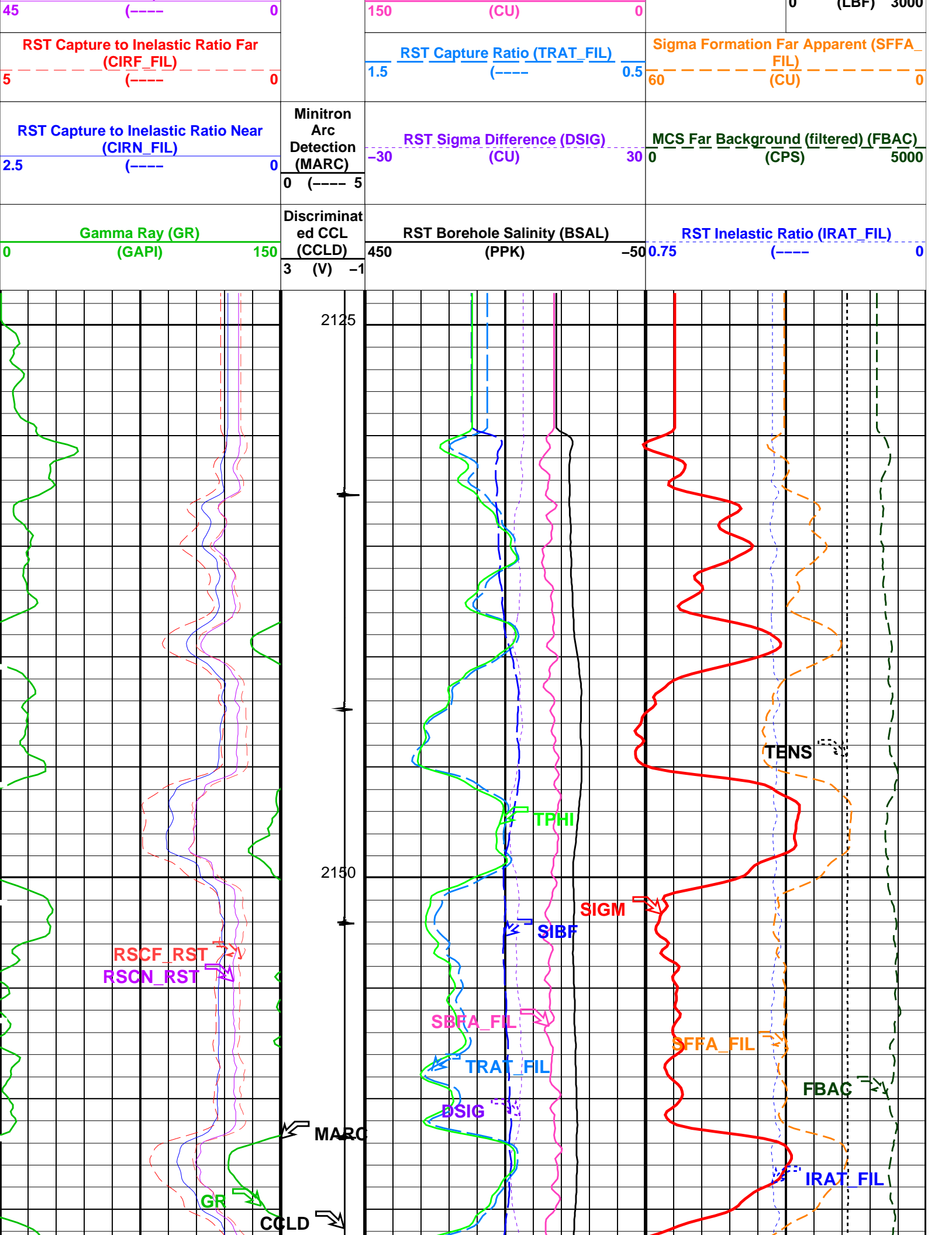
PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

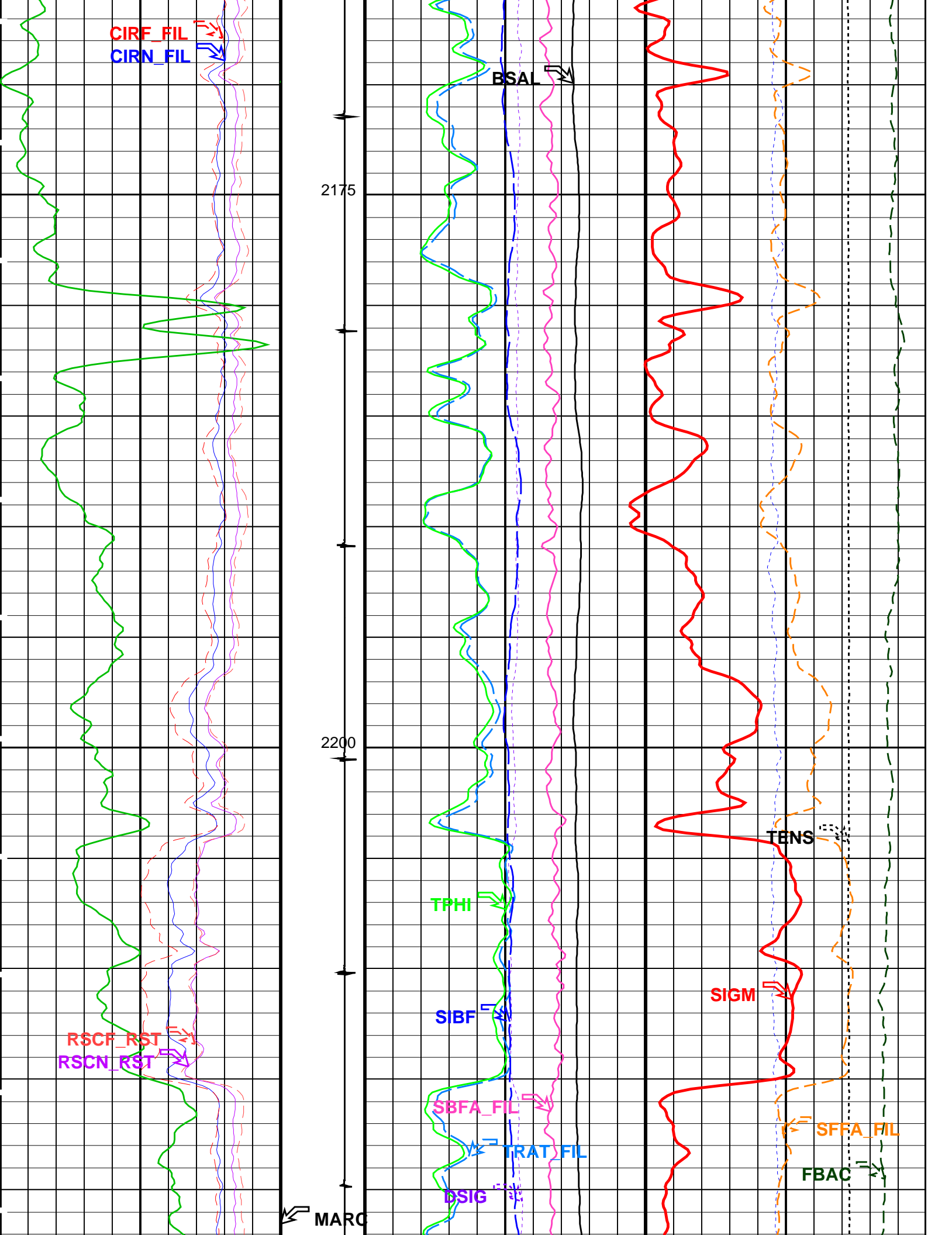
PIP SUMMARY

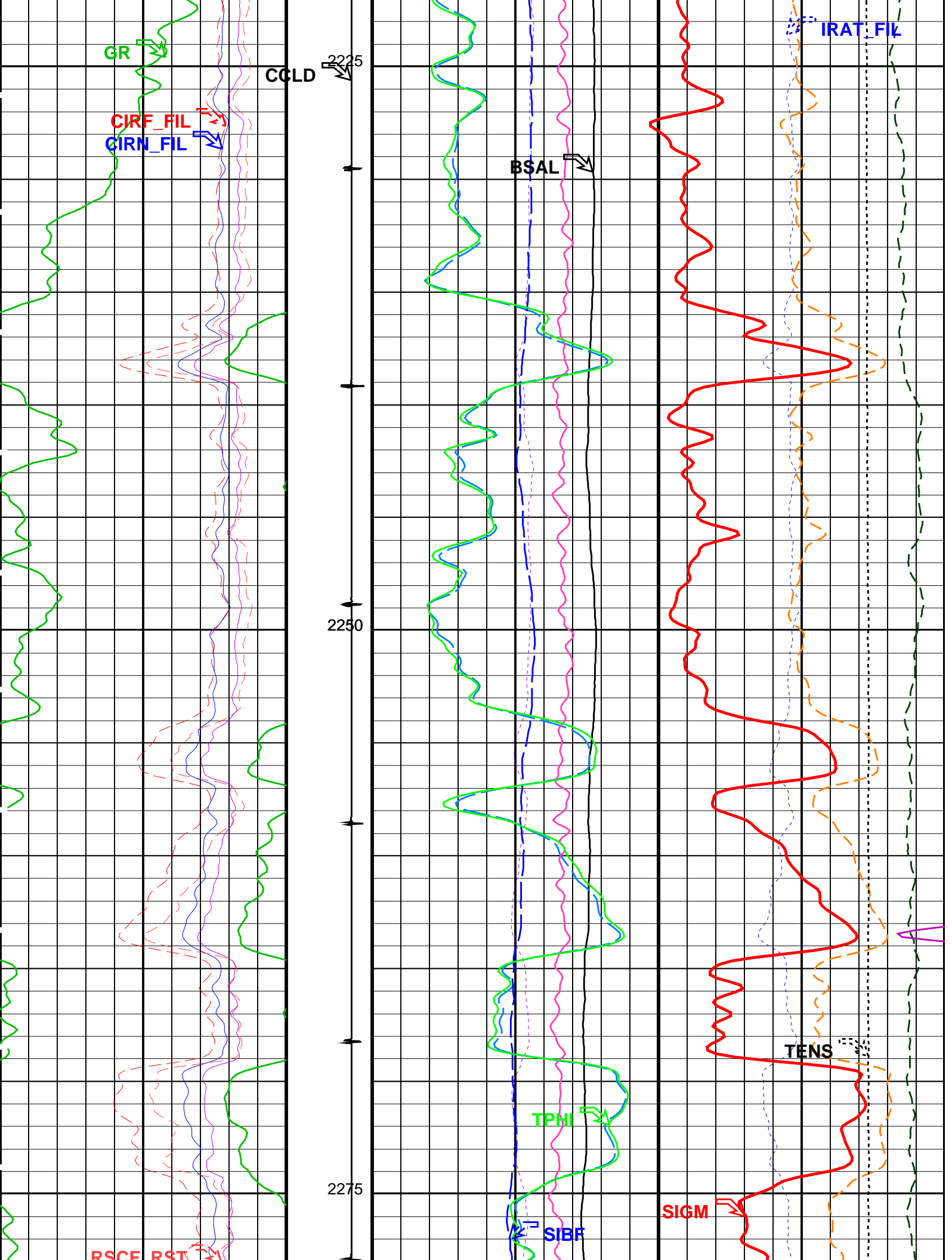
☒ Time Mark Every 60 S

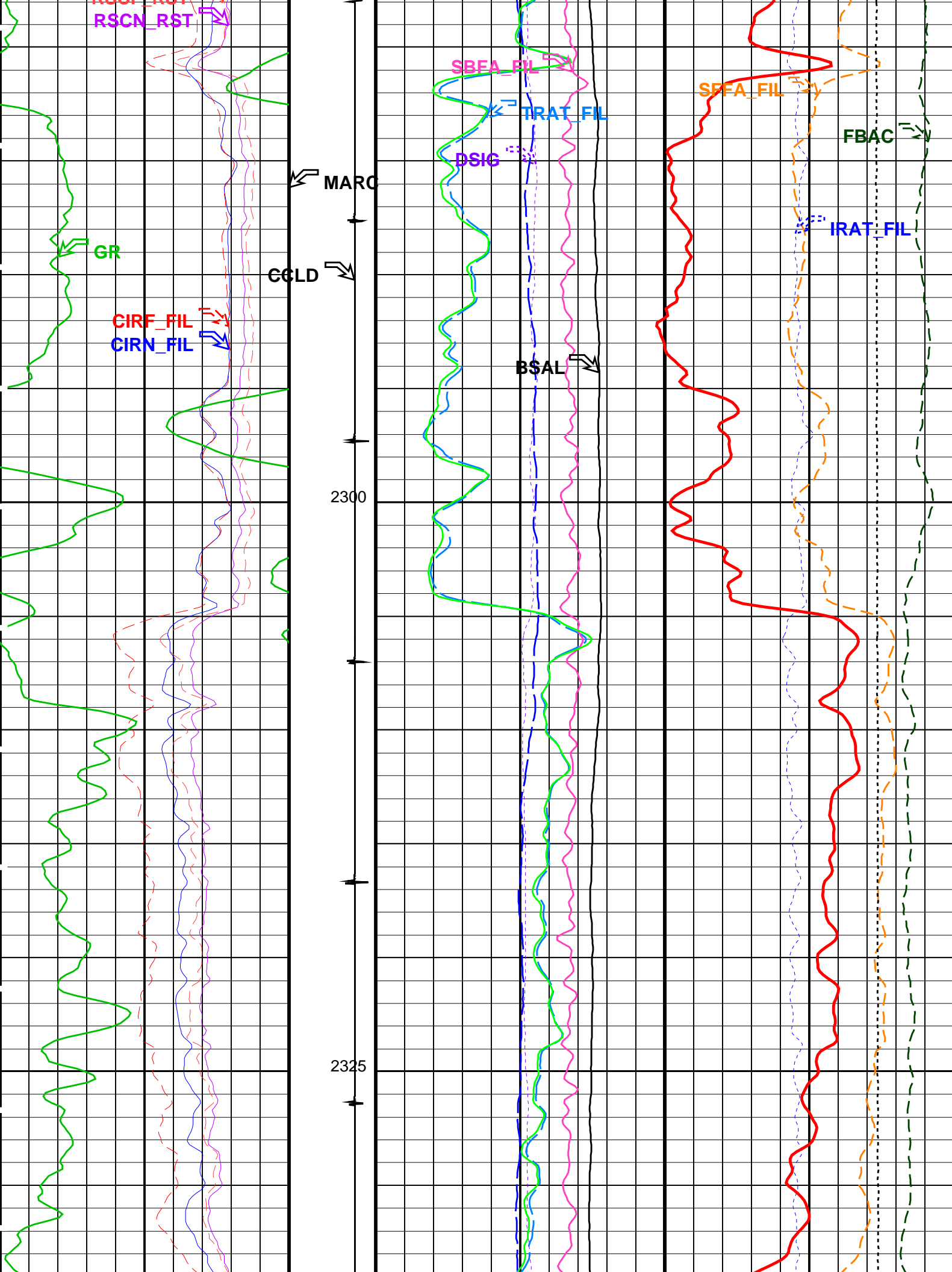
		RST Sigma (SIGM)	
60		(CU)	0
		RST Weighted Inelastic Ratio (WINR_RST)	
0.4		(----	0
		RST Porosity (TPHI)	
0.6		(V/V)	0
		RST Sigma Borehole Fluid (SIBF)	
100		(CU)	0
		Sigma Borehole Far Apparent (SBFA_FIL)	
		Tension (TENS)	

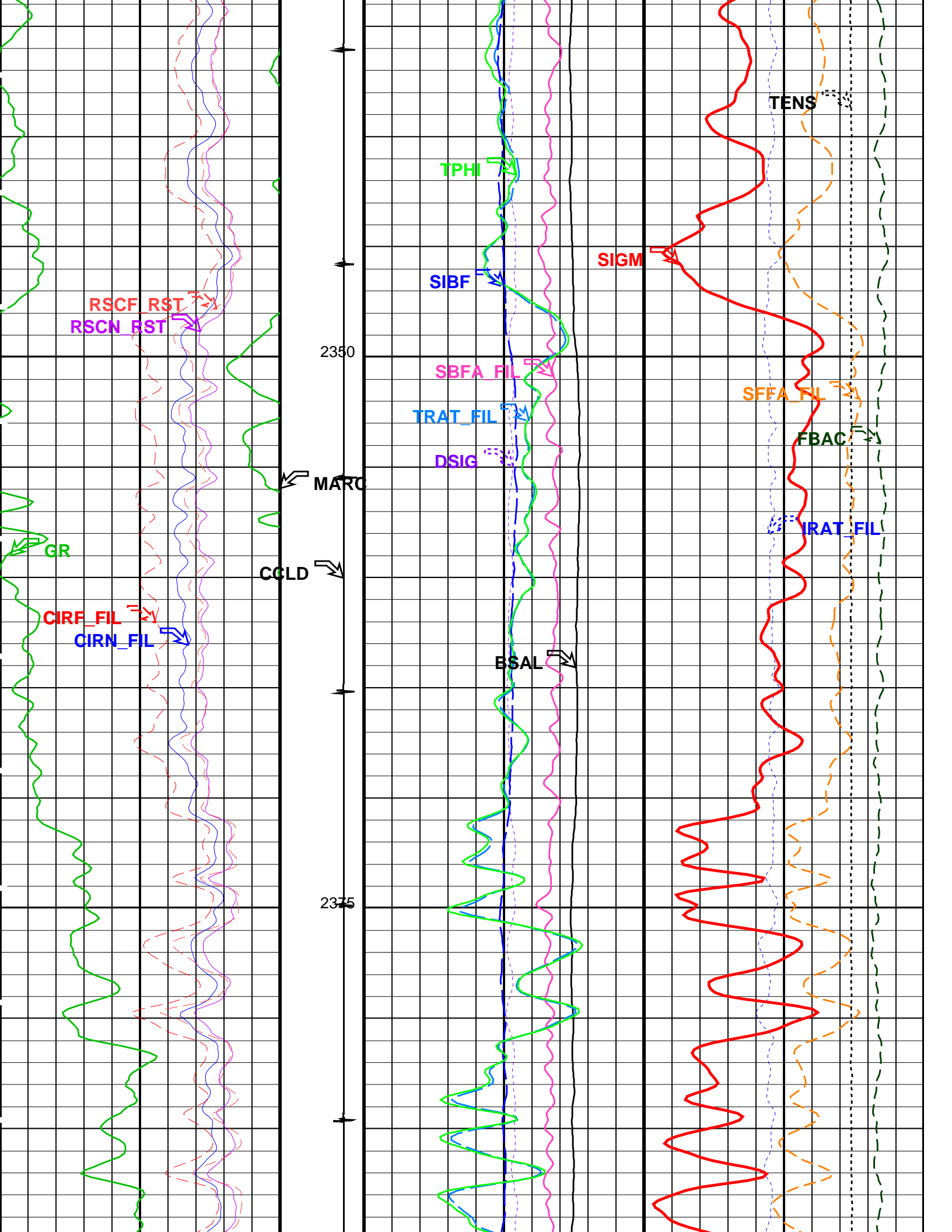
RST Far Effective Capture CR (RSCF_RST)	45	(----	0
RST Near Effective Capture CR (RSCN_RST)			

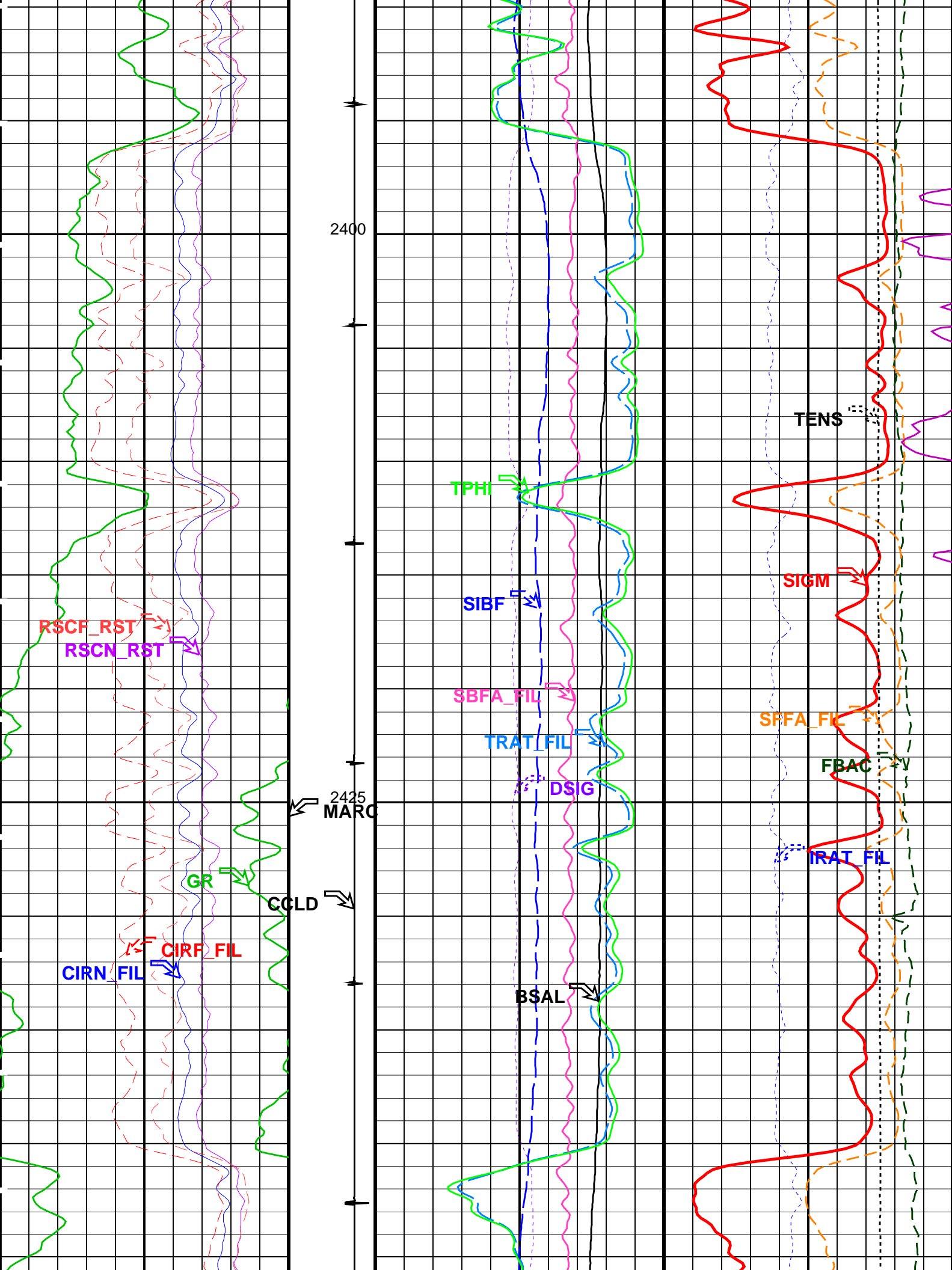


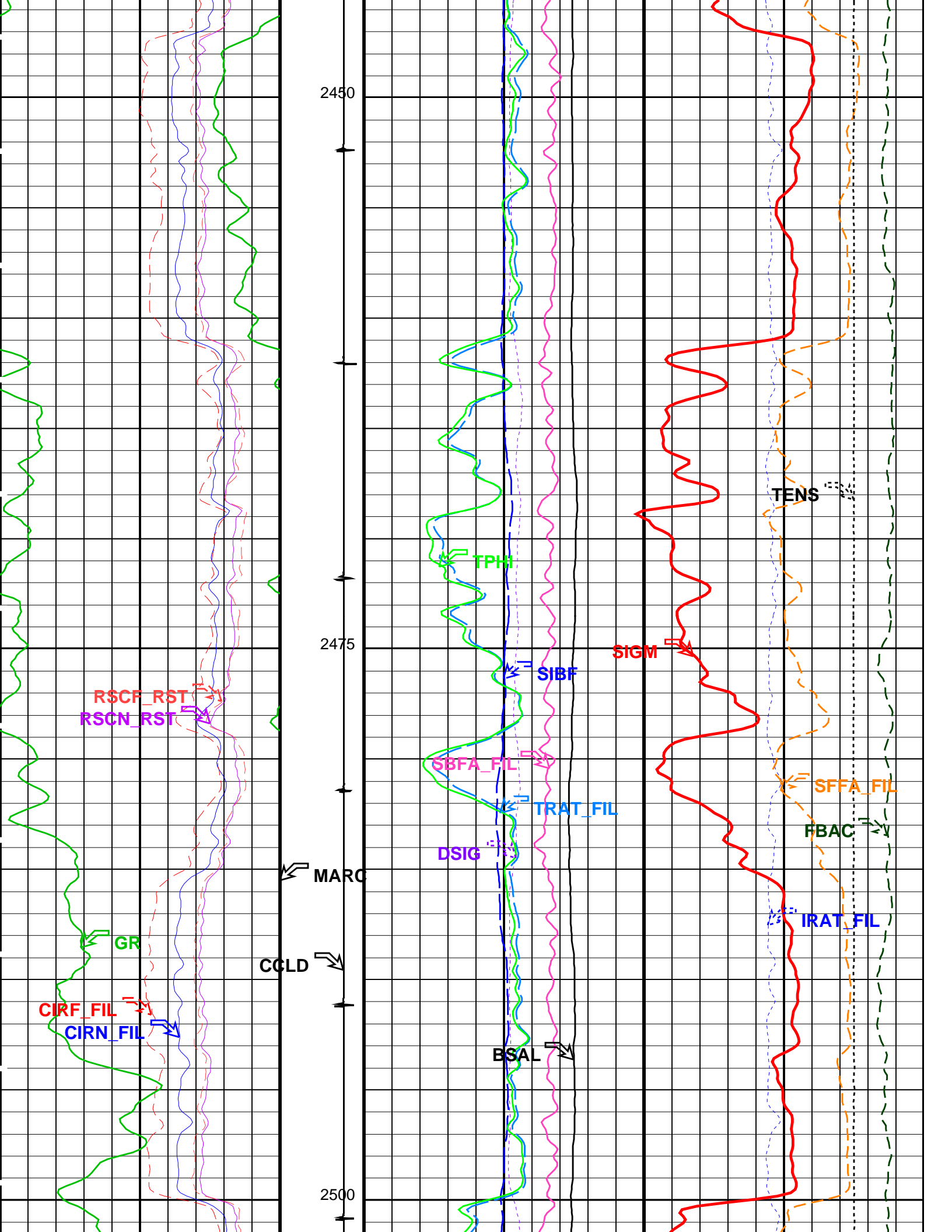


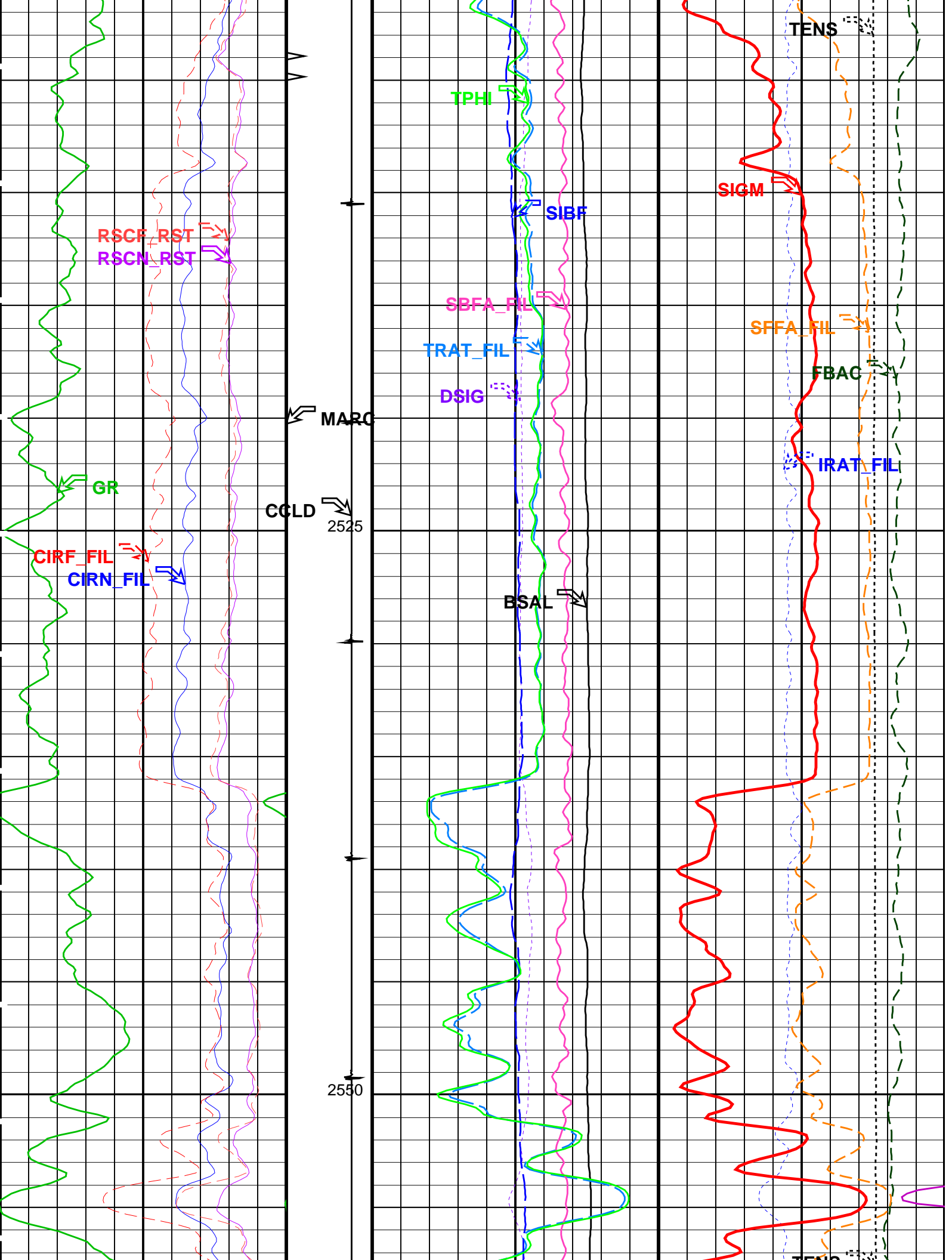


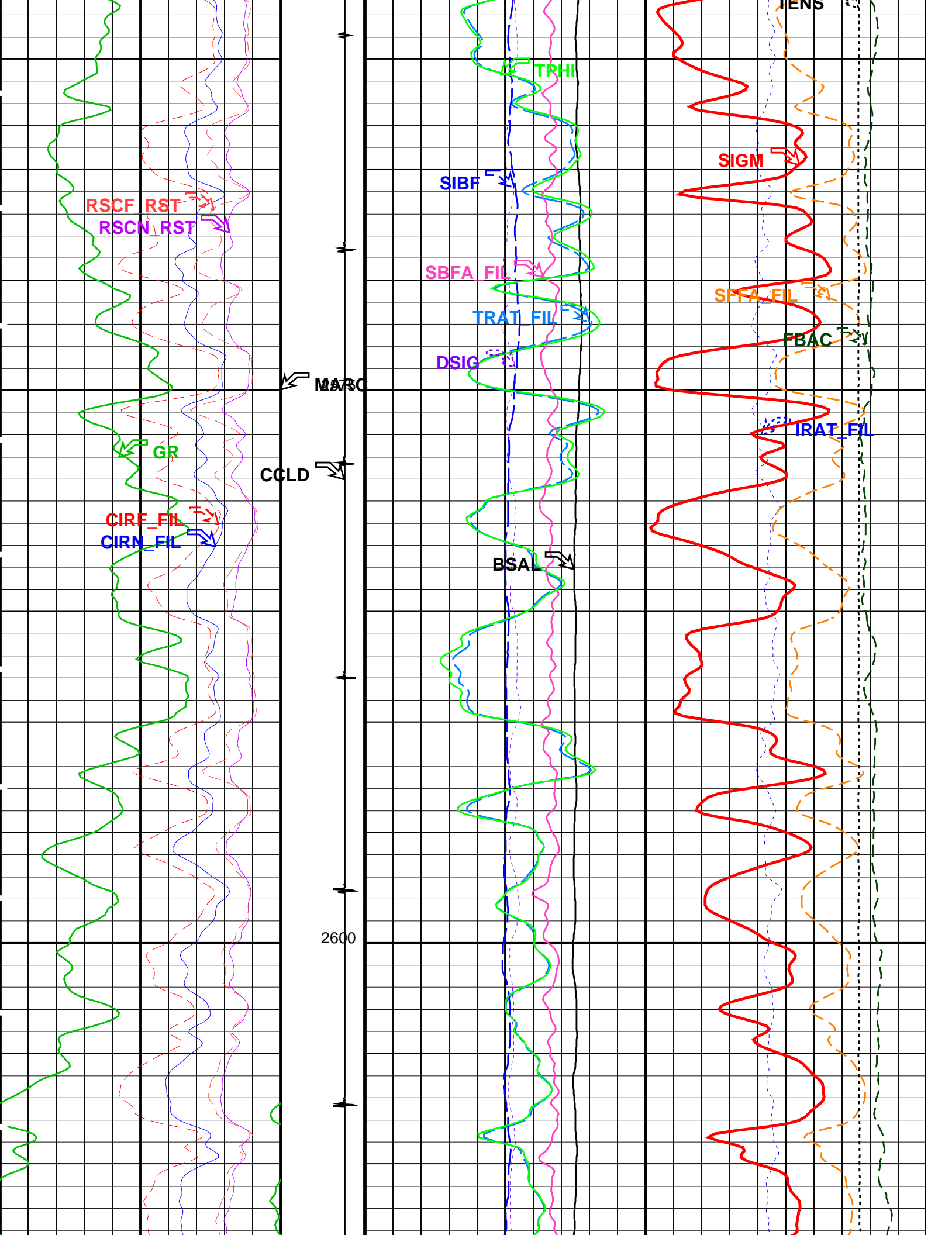


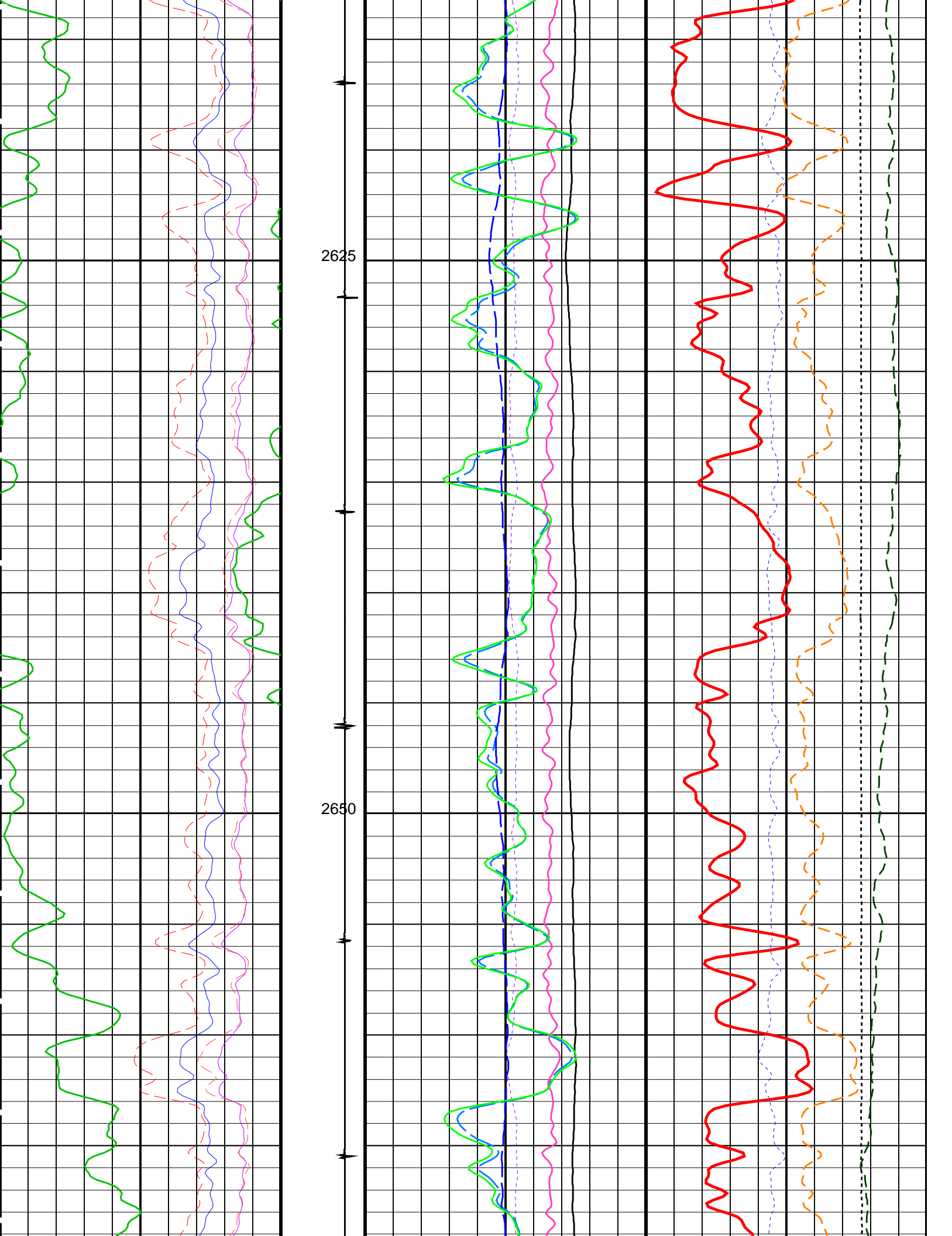


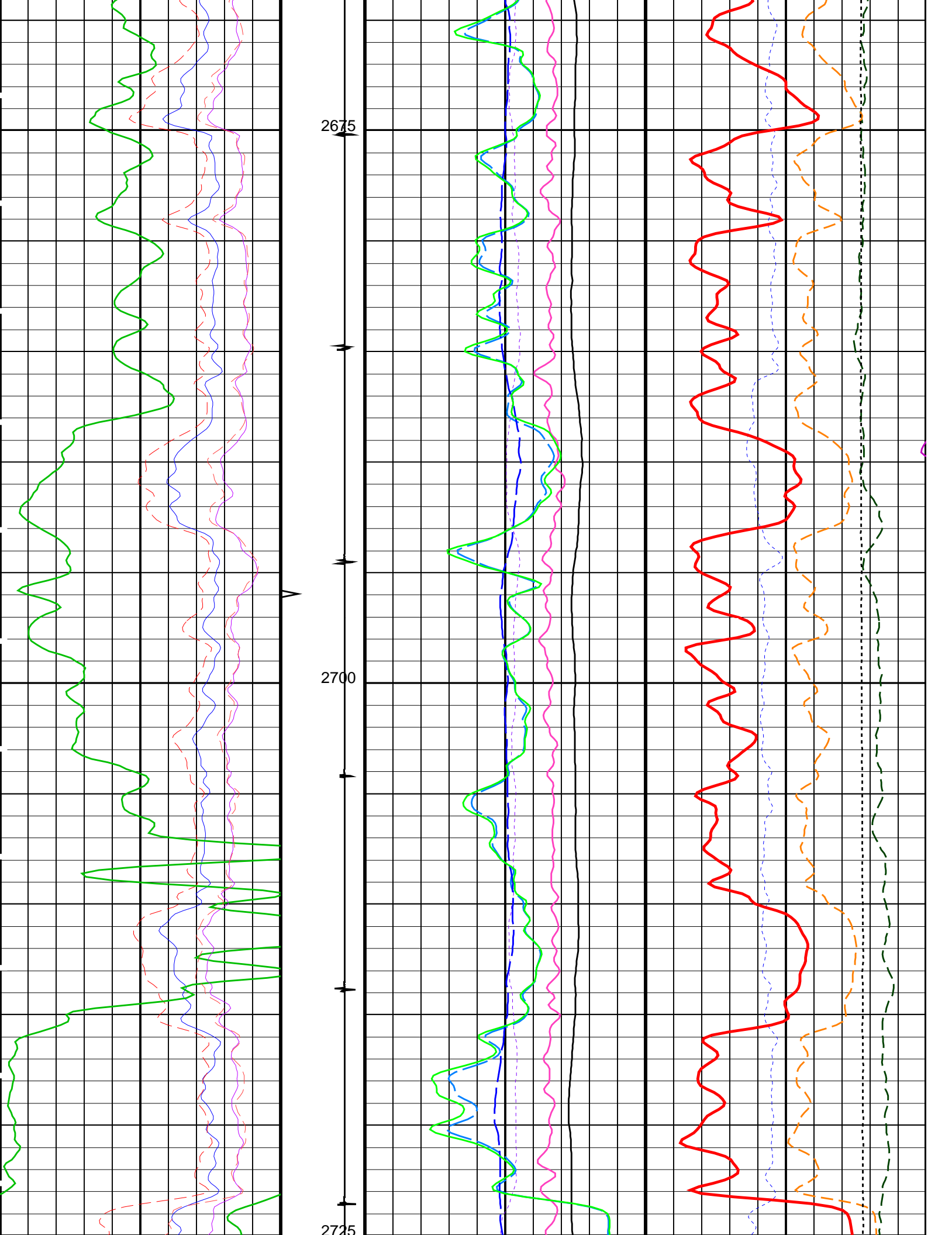


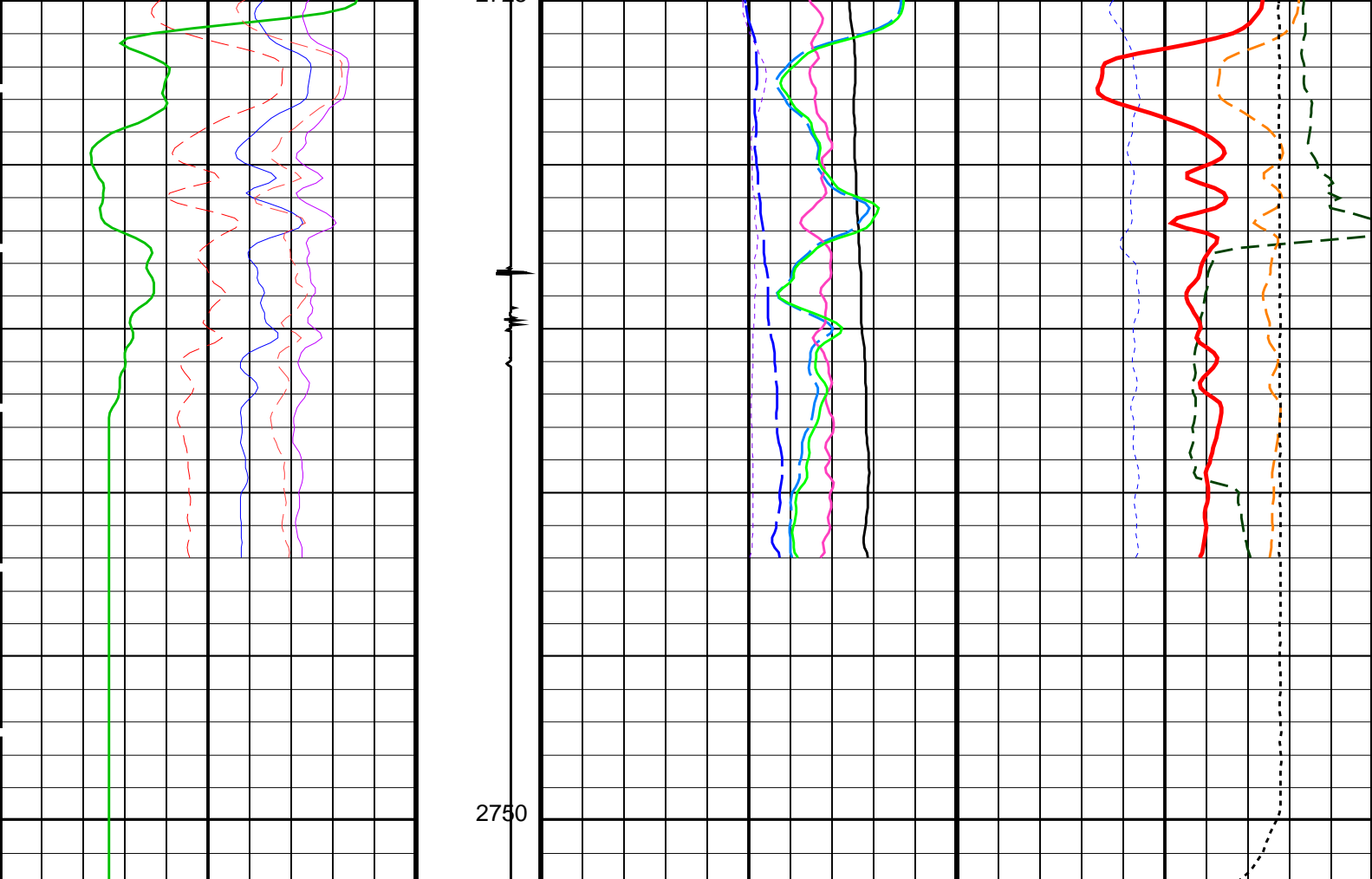












<div>Gamma Ray (GR) (GAPI)</div> <div>0150</div>	<div>Discriminat ed CCL (CCLD)</div> <div>3 (V) -1</div>	<div>RST Borehole Salinity (BSAL)</div> <div>450 (PPK) -50</div>		<div>RST Inelastic Ratio (IRAT_FIL)</div> <div>0.75 (----) 0</div>	
<div>RST Capture to Inelastic Ratio Near (CIRN_FIL)</div> <div>2.5 (----) 0</div>		<div>Minitron Arc Detection (MARC)</div> <div>0 (----) 5</div>	<div>RST Sigma Difference (DSIG)</div> <div>-30 (CU) 30</div>		<div>MCS Far Background (filtered) (FBAC)</div> <div>0 (CPS) 5000</div>
<div>RST Capture to Inelastic Ratio Far (CIRF_FIL)</div> <div>5 (----) 0</div>			<div>RST Capture Ratio (TRAT_FIL)</div> <div>1.5 (----) 0.5</div>		<div>Sigma Formation Far Apparent (SFFA_FIL)</div> <div>60 (CU) 0</div>
<div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45 (----) 0</div>		<div>Sigma Borehole Far Apparent (SBFA_FIL)</div> <div>150 (CU) 0</div>		<div>Tension (TENS)</div> <div>0 (LBF) 3000</div>	
<div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45 (----) 0</div>		<div>RST Sigma Borehole Fluid (SIBF)</div> <div>100 (CU) 0</div>			
		<div>RST Porosity (TPHI)</div> <div>0.6 (V/V) 0</div>			
		<div>RST Weighted Inelastic Ratio (WINR_RST)</div> <div>0.4 (----) 0</div>			
	<div>RST Sigma (SIGM)</div> <div>60 (CU) 0</div>				

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RST-C: Reservoir Saturation Pro Tool C			
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
RGAI	Near/Far Gain Calibration Ratio	1	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
PSPT-A/B: Production Services Logging Platform			
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
System and Miscellaneous			
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	34.60	LB/F
DO	Depth Offset for Playback	0.8	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 16-Dec-2009 20:43

OP System Version: 17C0-154

PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

Input DLIS Files

FCS_DEFT_GMS_RST_106LUP FN:105 16-Dec-2009 20:24 2751.1 M 2122.6 M

Output DLIS Files

DEFAULT FCS_DEFT_GMS_RST_037PUP FN:32 PRODUCER 16-Dec-2009 20:43

Schlumberger

**PLT flowing down log @ 1970 ft/hr
2145 – 2751m MDKB**

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-7

Input DLIS Files

Flip_FCS_DEFT_GMS_031LUP FN:1 17-Dec-2009 07:29 2751.1 M 2123.9 M

Output DLIS Files

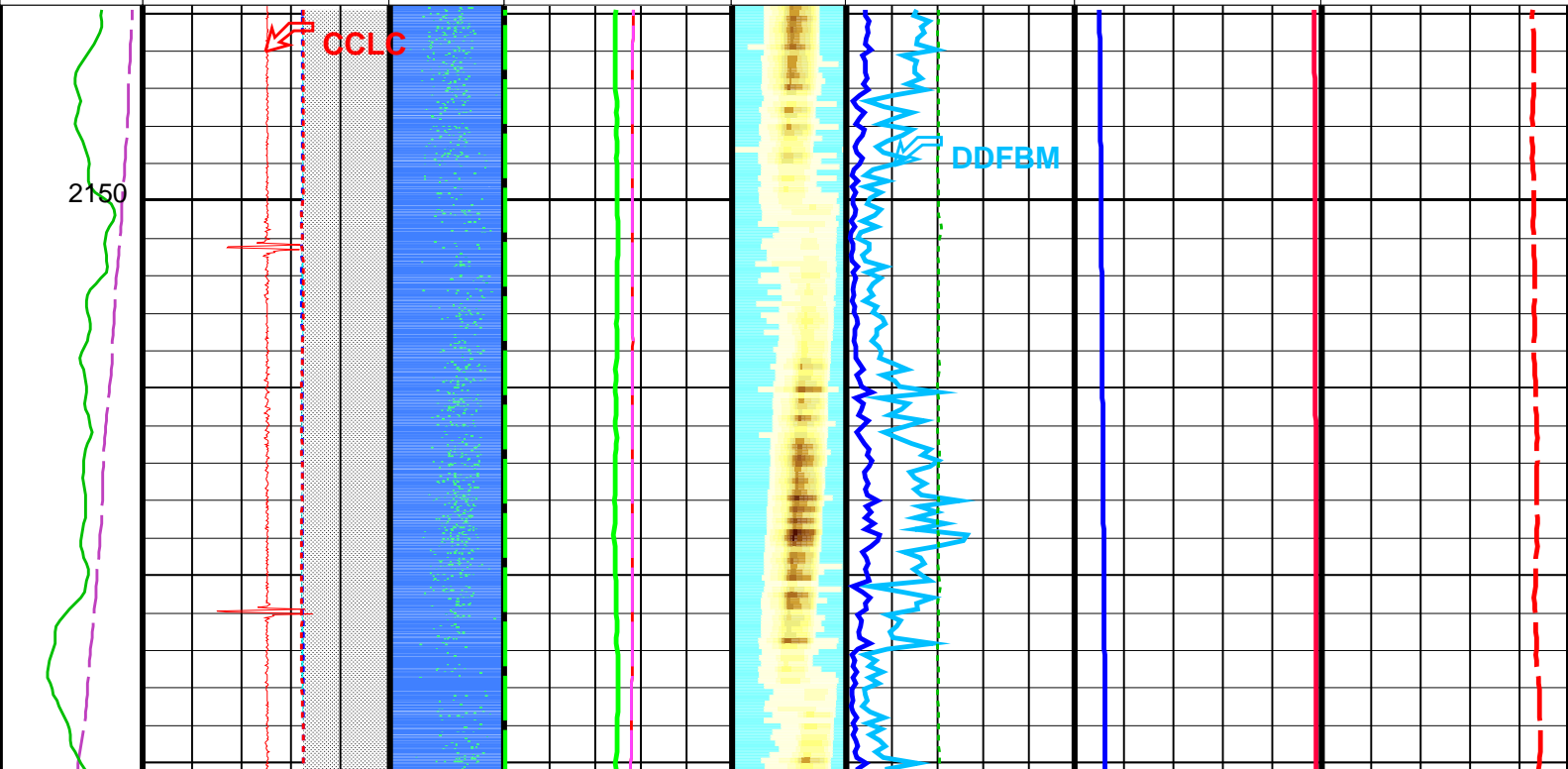
DEFAULT FCS_ILS_DEFT_GMS_127PUP FN:146 PRODUCER 17-Dec-2009 11:37 2749.1 M 2144.7 M
CUSTOMER_ FCS_ILS_DEFT_GMS_127PUC FN:147 CUSTOMER 17-Dec-2009 11:37 2749.1 M 2144.7 M

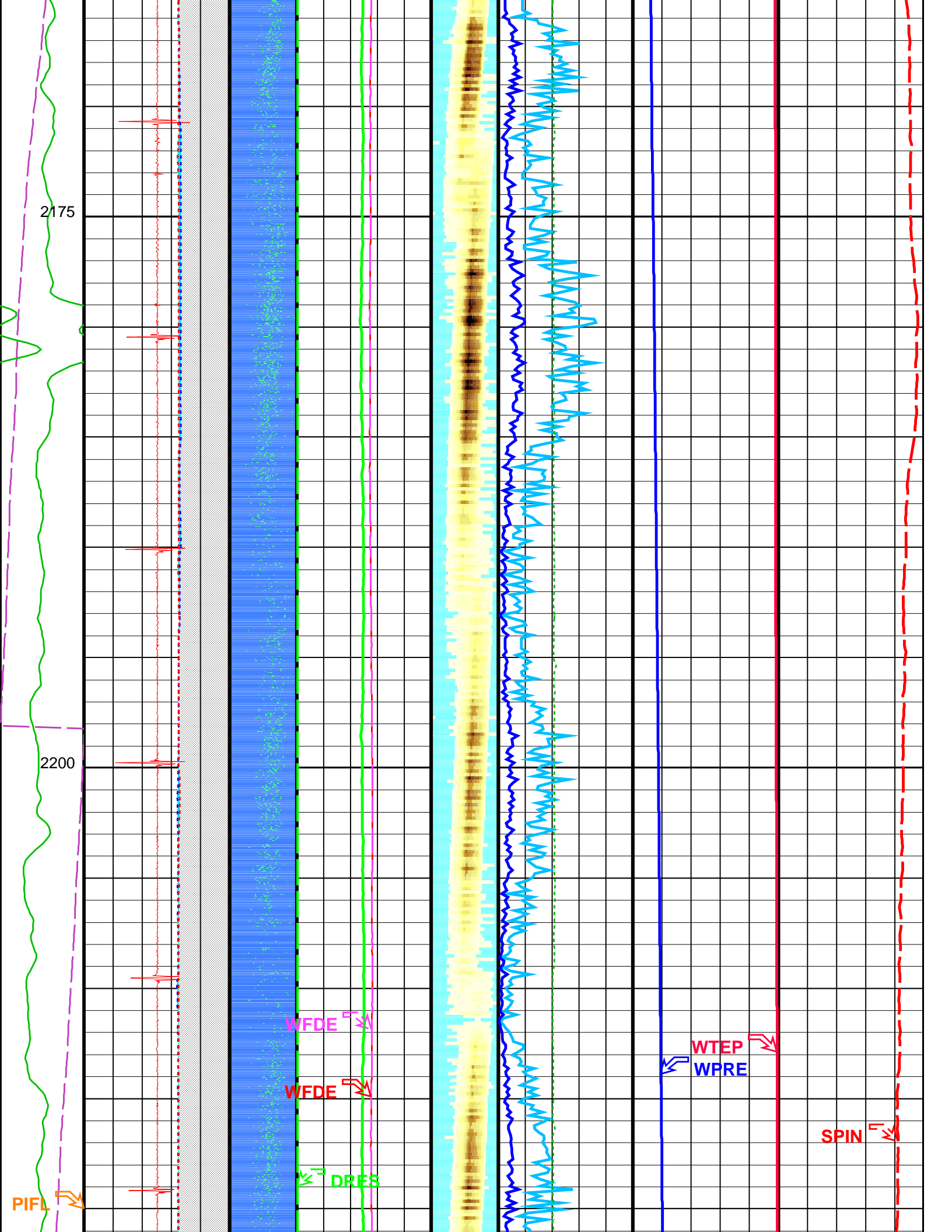
OP System Version: 17C0-154

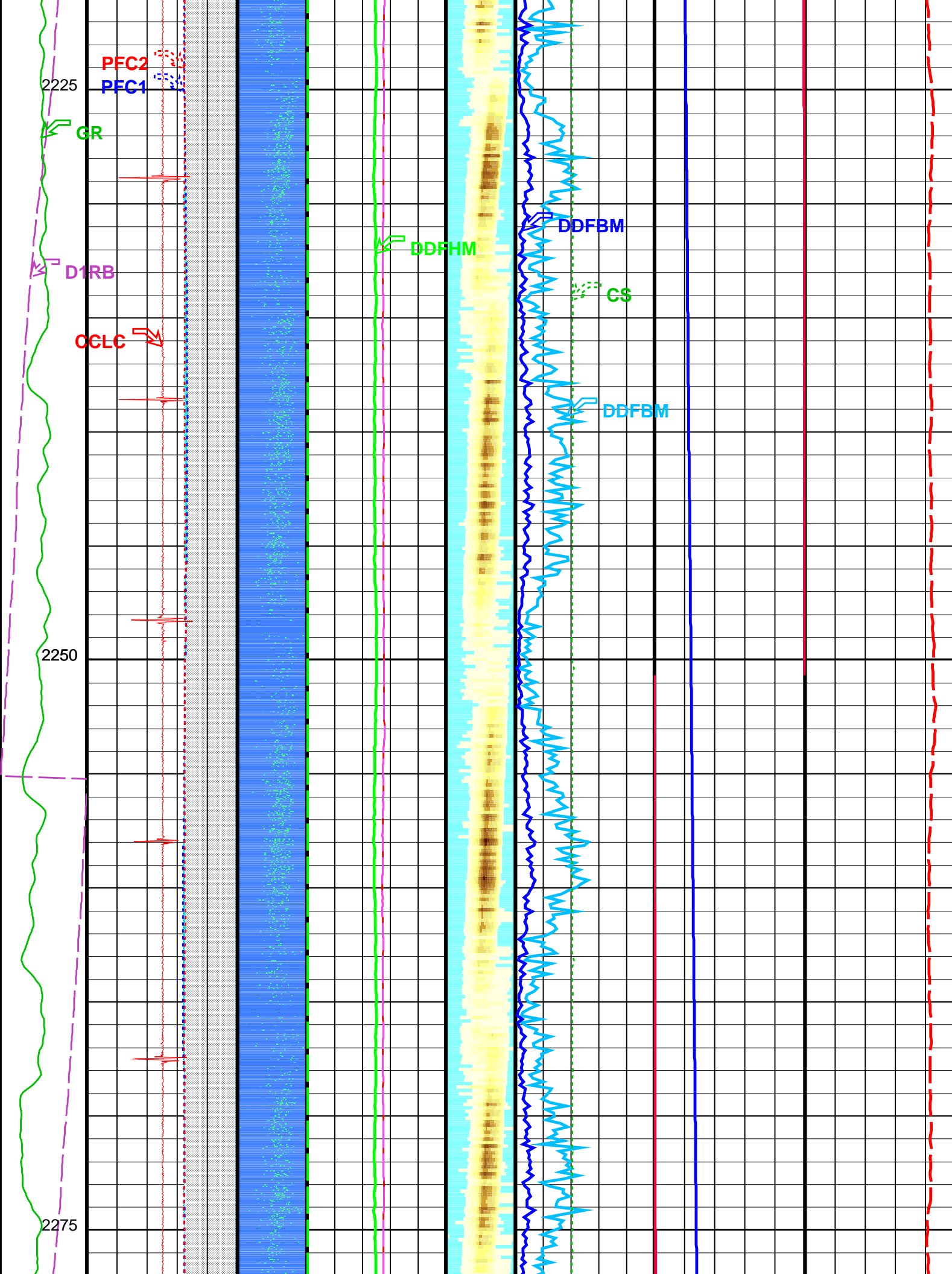
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DEFT-C2	17C0-154	PGMC-A/B	17C0-154

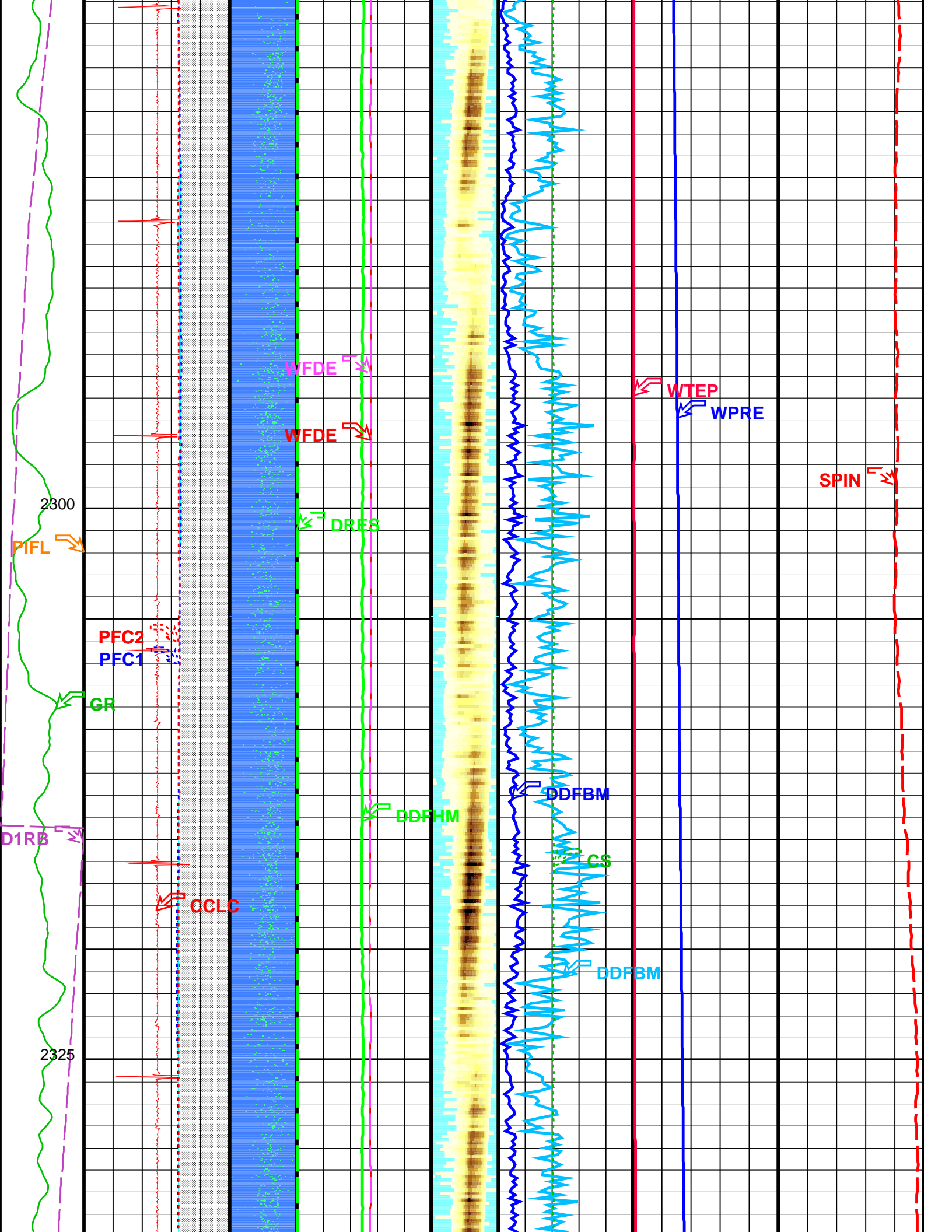
DEFT-C2 RST-C	17C0-154 17C0-154	PGMC-A/B PSPT-A/B	17C0-154 17C0-154
	<div>Pipe Ovalisation Between PFC1 and PFC2</div> <div>Well Diameter From PFC2 to PFCS_T1</div> <div>Well Diameter From PFC1 to PFCS_T1</div>	<div>Well Fluid Density (WFDE) 0 (G/C3) 2</div> <div>Well Fluid Density (WFDE) 0 (G/C3) 2</div> <div>PFCS Fluid Resistivity (DRES) 0 (OHMM) 360</div> <div>Filtered Water Holdup (FHM) 0 (----) 1</div> <div>Avg Holdup (DDFHM) 0 (----) 2</div>	<div>Filtered Bubble Count (FBM) 0 (CPS) 500</div> <div>Well Temperature (WTEP) 185 (DEGC) 220</div> <div>Avg BUB count (DDFBM) 0 (CPS) 150</div> <div>Well Pressure (WPRE) 1900 (PSIA) 2550</div> <div>Cable Speed (CS) 0 (F/HR) 5000</div> <div>Amplified Temperature (WTEP) (DEGC) 10</div>
Probe1 RB (D1RB) (DEG) 0 360	PFCS Caliper Y (PFC2) 8 (IN) 2		
Perfo Zone (PIFL) 20 (----) 0	PFCS Caliper X (PFC1) 8 (IN) 2		

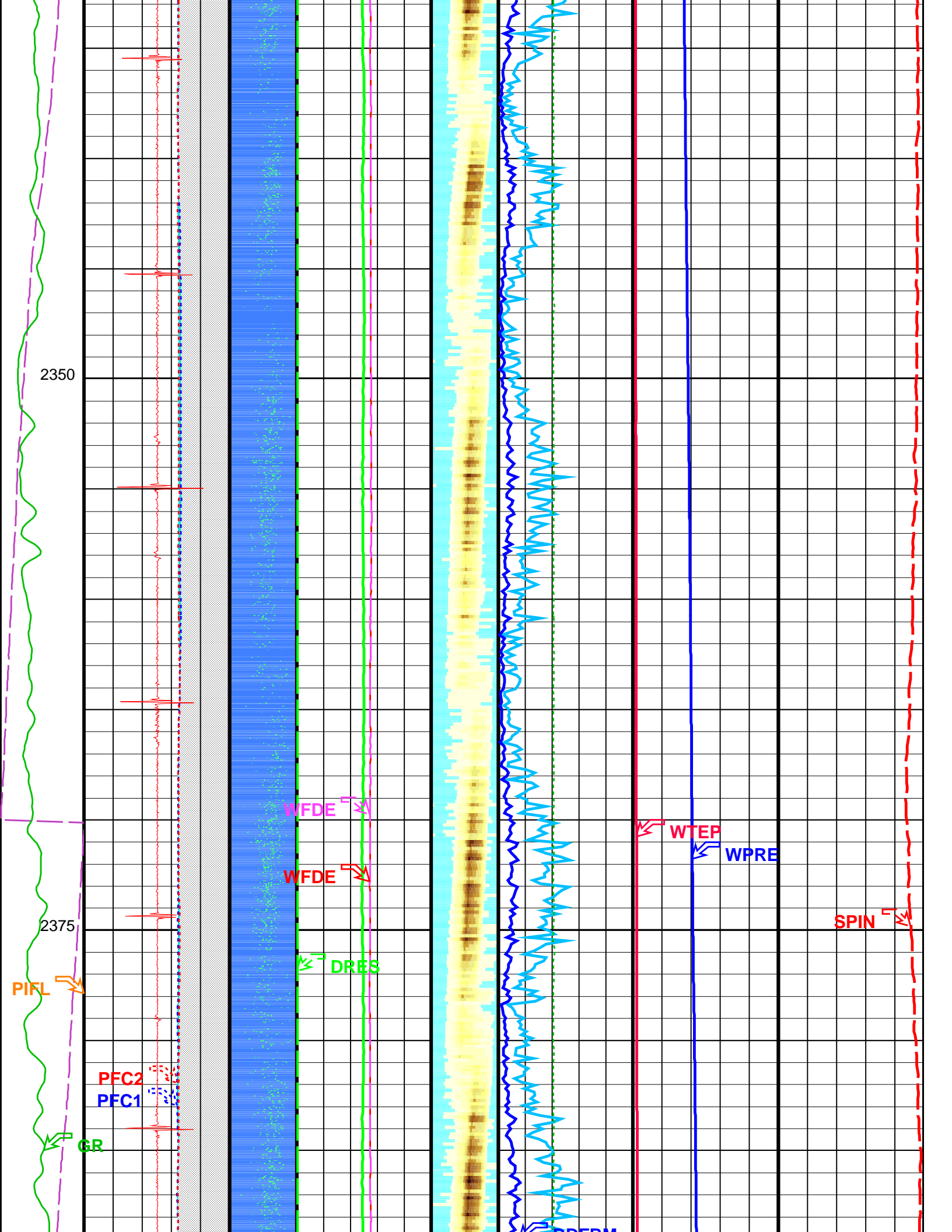
GR (GR) (GAPI) 0 150	Comp.CCL (CCLC) (V) 2 -2	<div>Water Holdup Image 2 colors (WATER HIMAGE 2C) (----</div> <div> <div>1.0000</div> <div>7.6000</div> <div>14.2000</div> <div>20.8000</div> <div>27.4000</div> <div>34.0000</div> <div>40.6000</div> <div>47.2000</div> <div>53.8000</div> <div>60.4000</div> <div>67.0000</div> <div>73.6000</div> <div>80.2000</div> <div>86.8000</div> <div>93.4000</div> <div>100.0000</div> </div> <div>Bub Counts Image 16 colors (DBIMAG E_16C) (----</div>	<div>PFCS Computed Holdup (DFCHM) 0 (----) 1</div> <div>Amplified Avg Bubble count (DDFBM) 0 (CPS) 40</div> <div>Amplified Pressure (WPRE) (PSIA) 50</div> <div>Filtered Main Spinner (SPIN) (RPS) 15</div>
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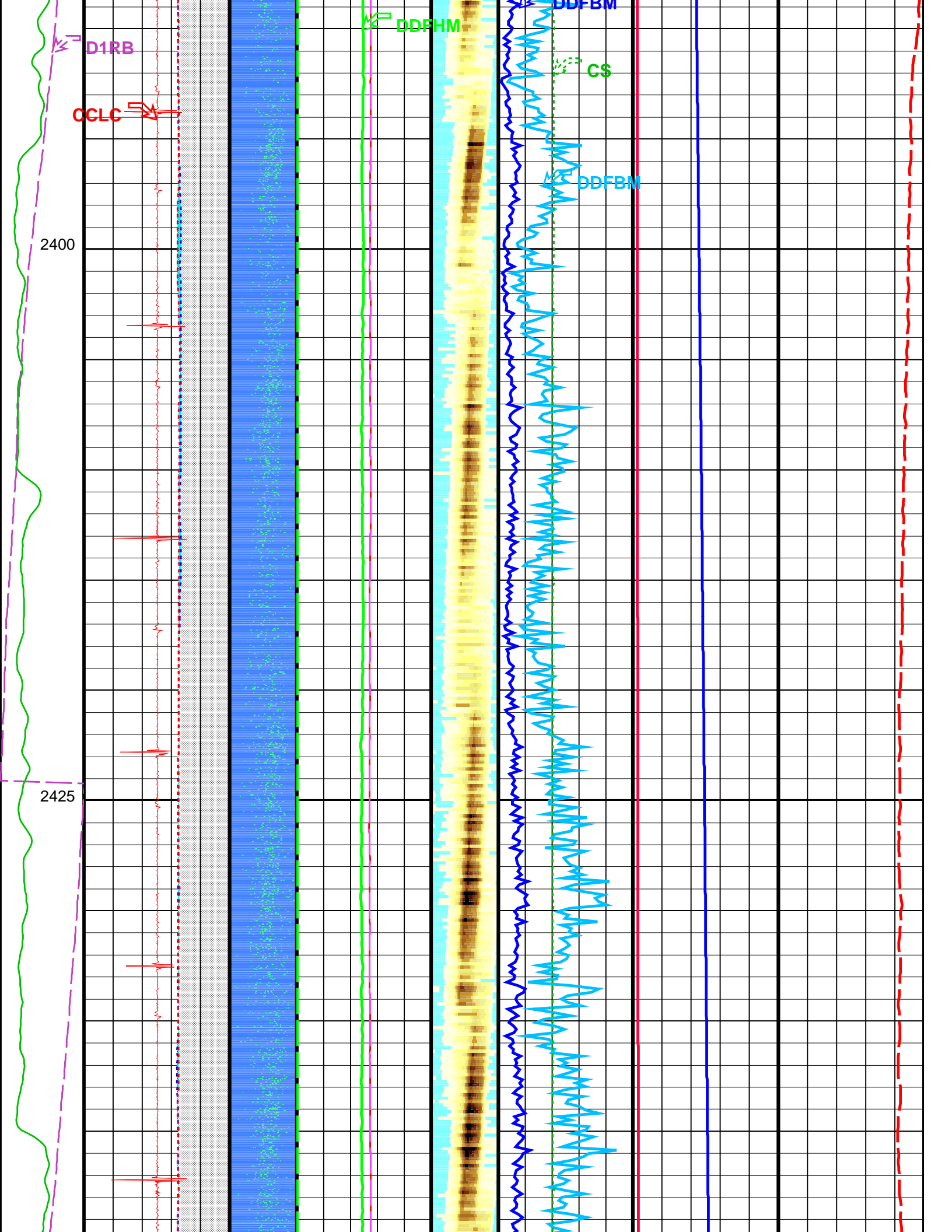


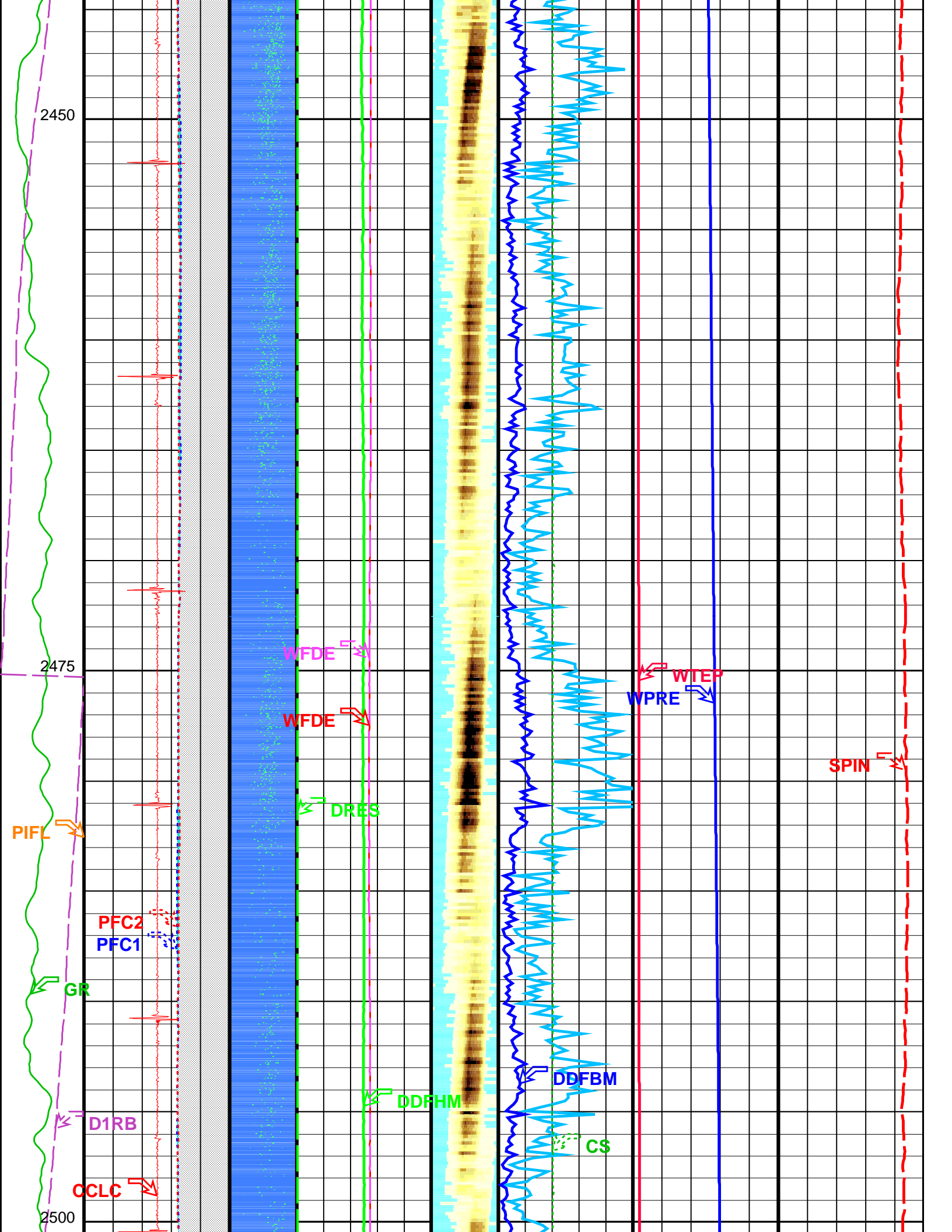


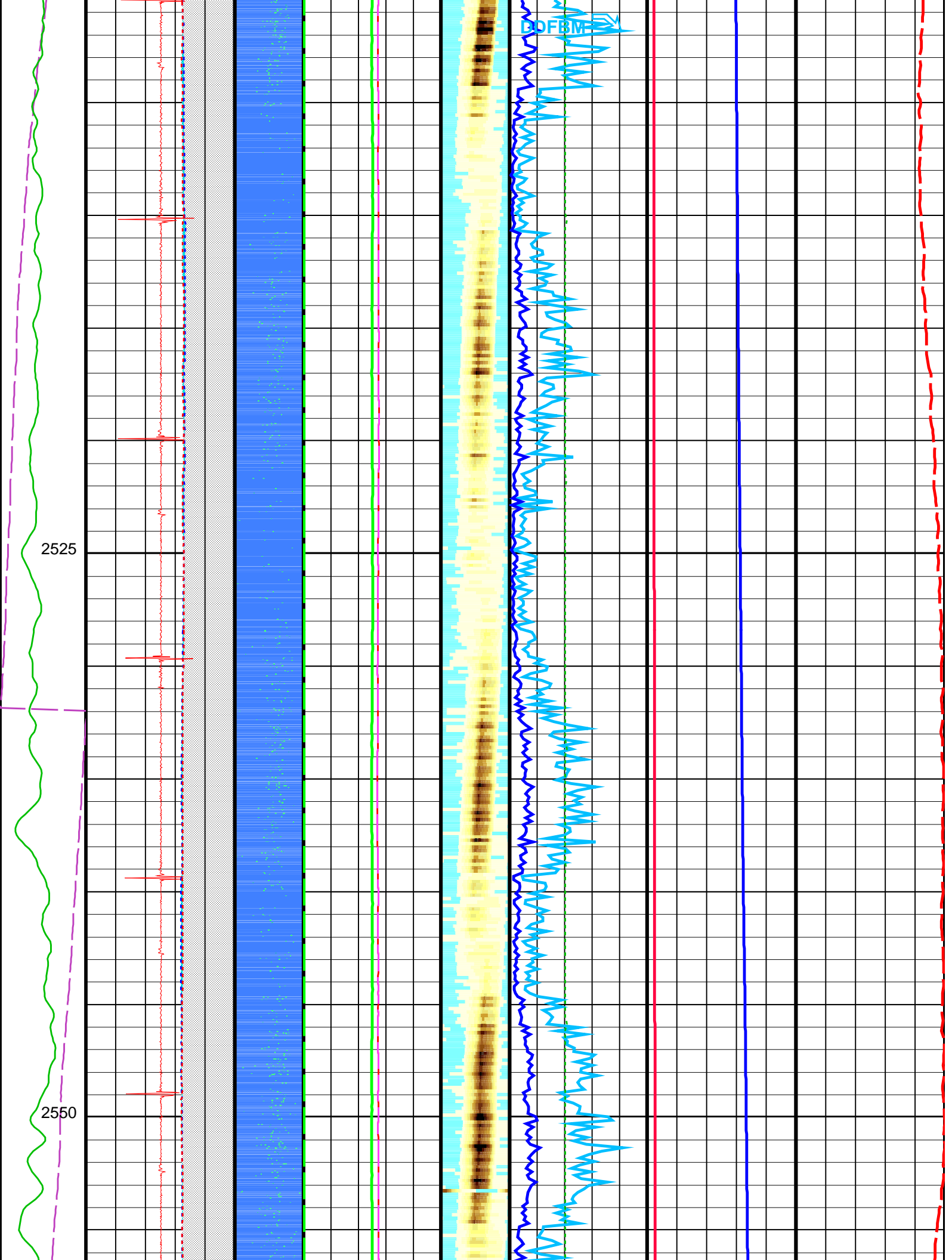


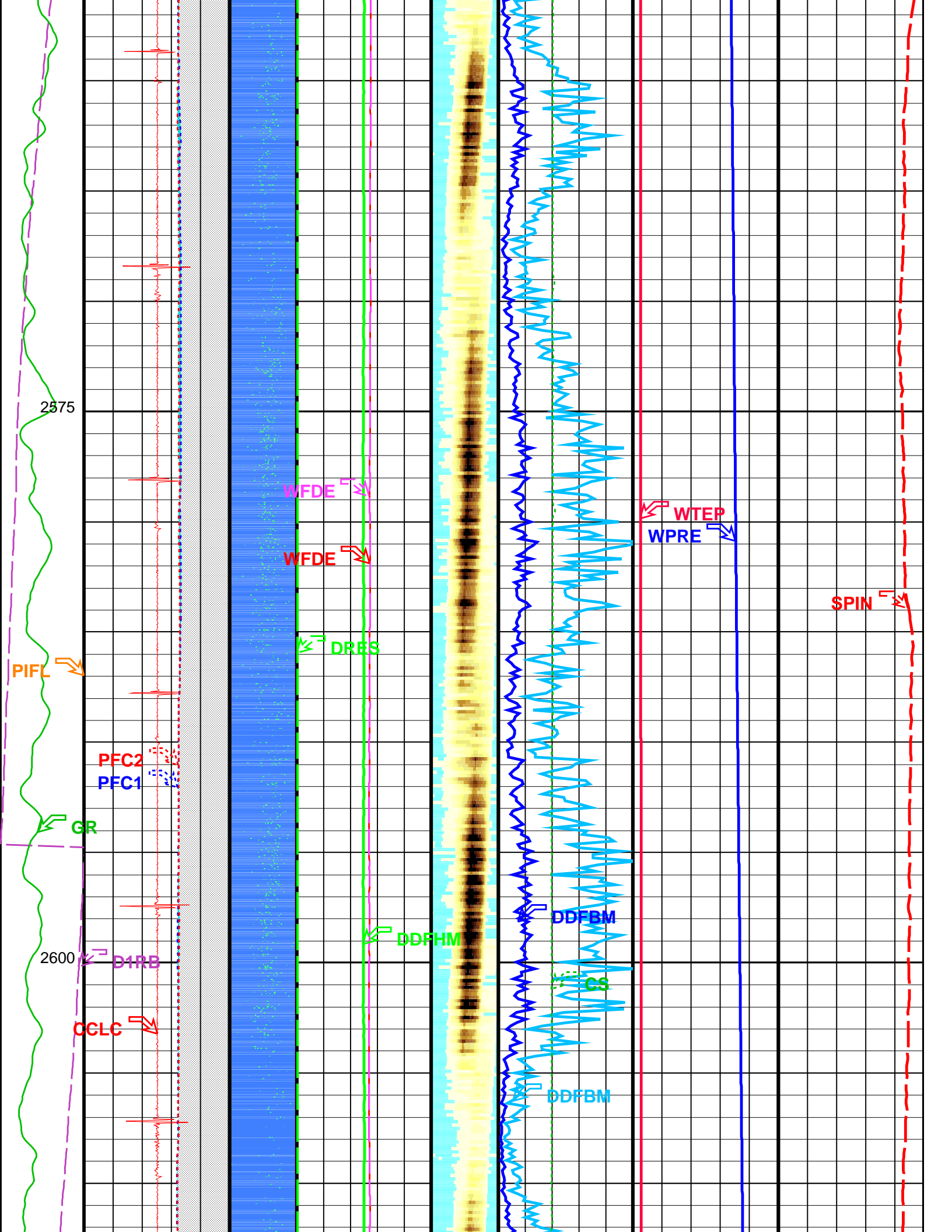


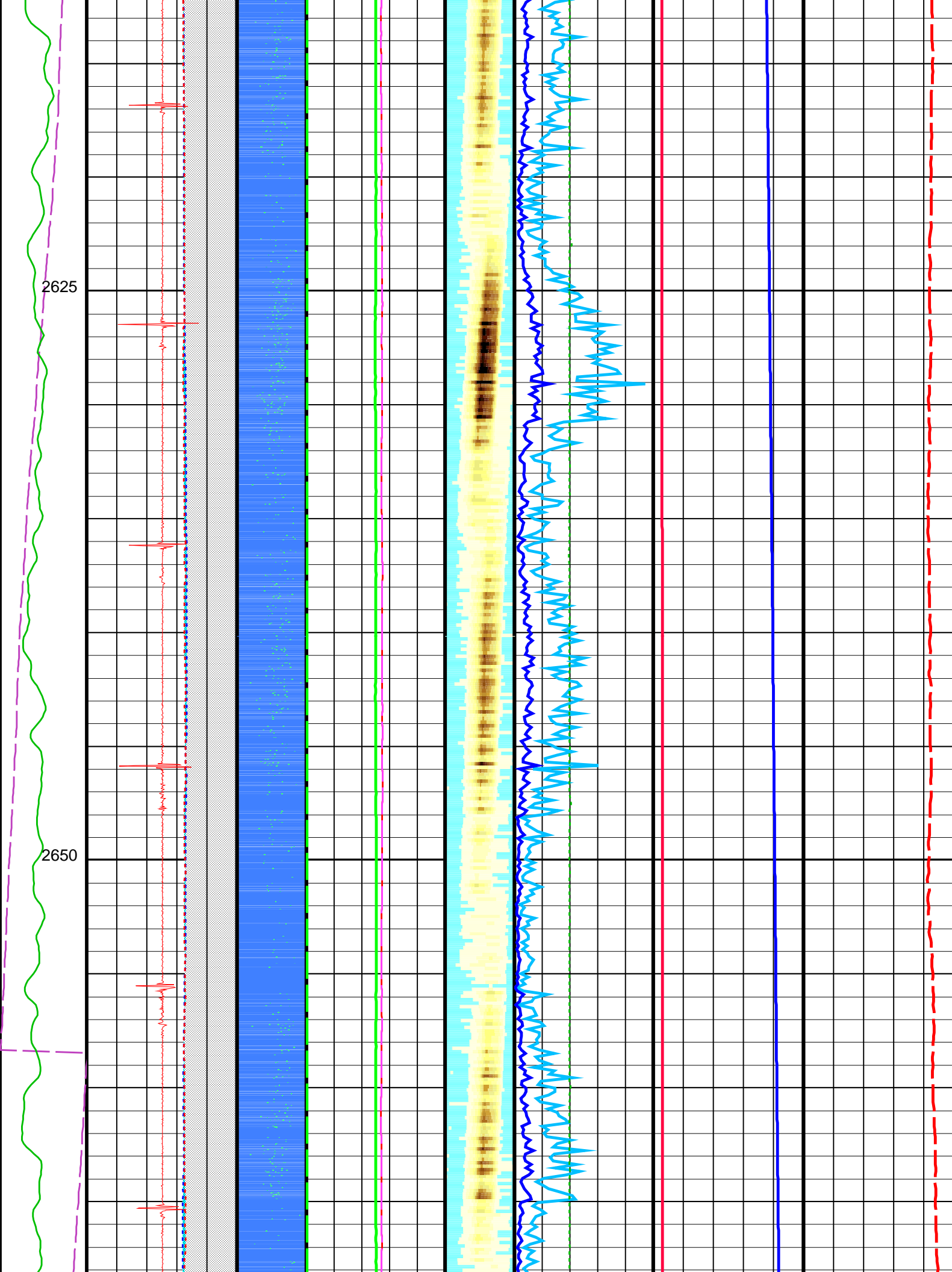


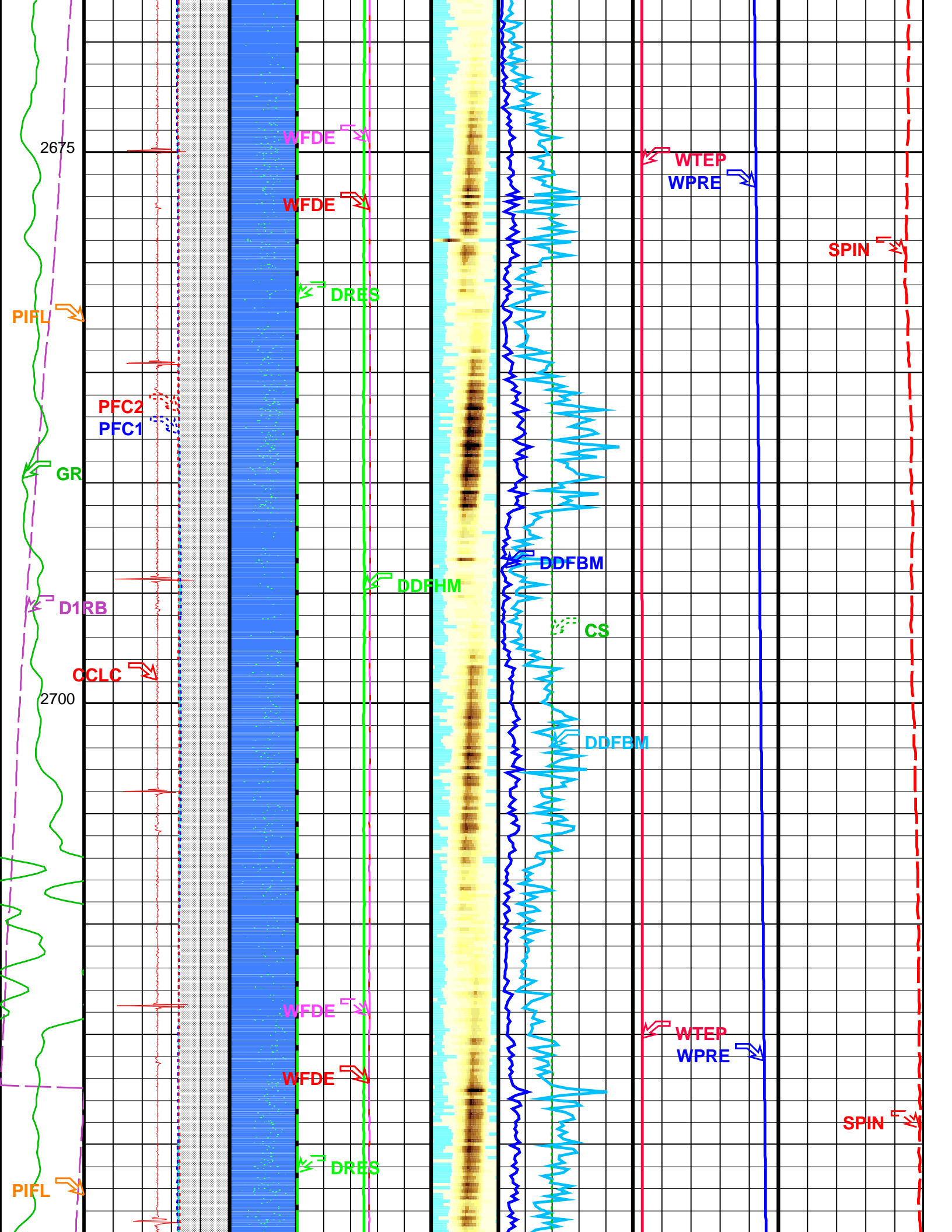


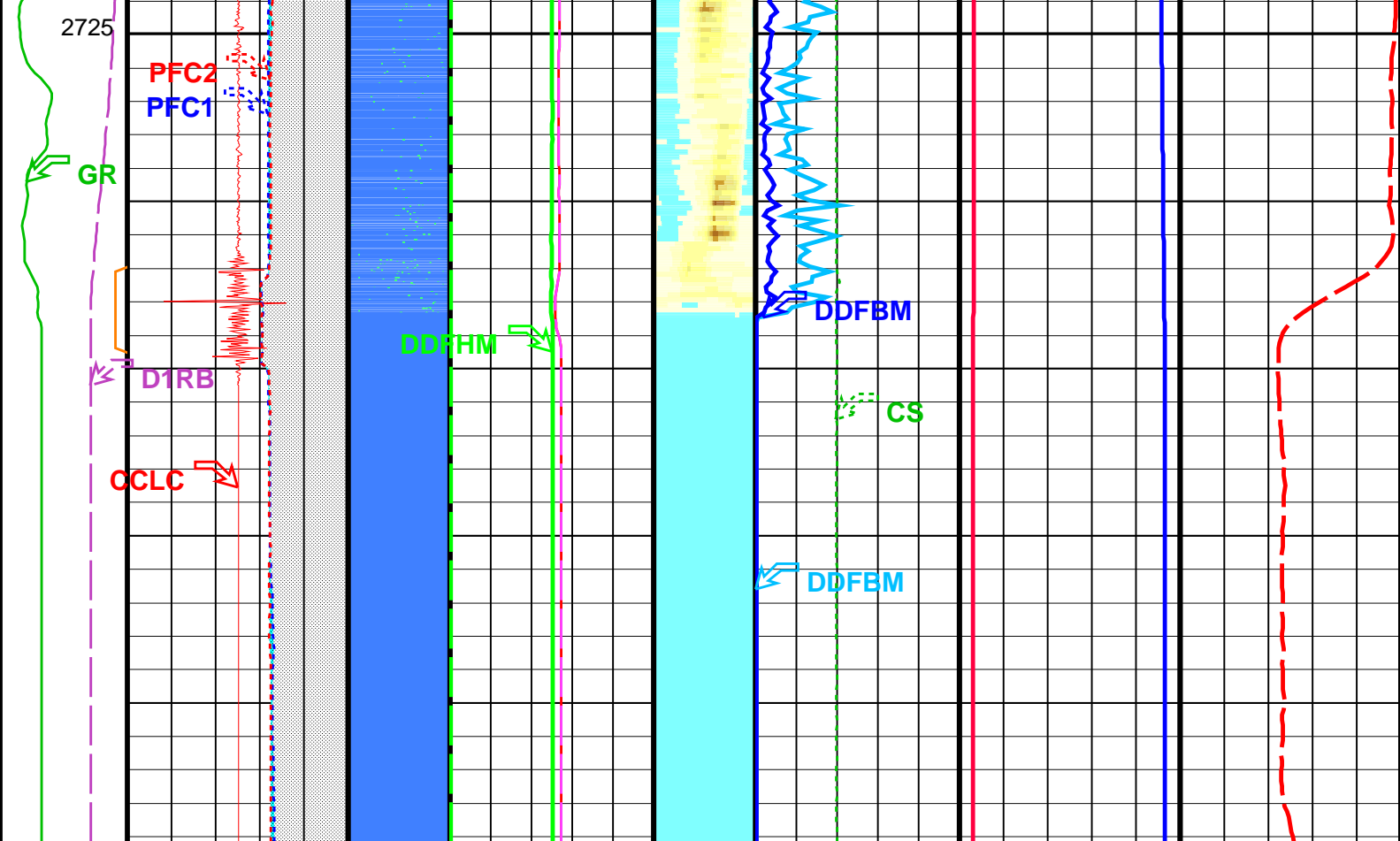












<div>GR (GR) (GAPI)</div> <div>0150</div>	<div>Comp.CCL (CCLC) (V)</div> <div>2-----2</div>	<div><div><div>-0.5000</div><div>0.5000</div></div><div>Water Holdup Image 2 colors (WATER HIMAGE 2C) (----</div></div>	<div>PFCS Computed Holdup (DFCHM)</div> <div>0(-----)1</div>	<div><div>1.0000</div><div>7.6000</div><div>14.2000</div><div>20.8000</div><div>27.4000</div><div>34.0000</div><div>40.6000</div><div>47.2000</div><div>53.8000</div><div>60.4000</div><div>67.0000</div><div>73.6000</div><div>80.2000</div><div>86.8000</div><div>93.4000</div><div>100.0000</div></div> <div>Bub Counts Image 16 colors (DBIMAG E_16C) (----</div>	<div>Amplified Avg Bubble count (DDFBM)</div> <div>0(CPS)40</div>	<div>Amplified Pressure (WPRE) (PSIA)</div> <div>0-----50</div>	<div>Filtered Main Spinner (SPIN) (RPS)</div> <div>-5-----15</div>
<div>Perfo Zone (PIFL)</div> <div>20(-----)0</div>	<div>PFCS Caliper X (PFC1) (IN)</div> <div>8-----2</div>		<div>Avg Holdup (DDFHM)</div> <div>0(-----)2</div>		<div>Cable Speed (CS) (F/HR)</div> <div>0-----5000</div>	<div>Amplified Temperature (WTEP) (DEGC)</div> <div>0-----10</div>	
<div>Probe1 RB (D1RB) (DEG)</div> <div>0-----360</div>	<div>PFCS Caliper Y (PFC2) (IN)</div> <div>8-----2</div>	<div>Filtered Water Holdup (FHM)</div> <div>0(-----)1</div>		<div>Avg BUB count (DDFBM)</div> <div>0(CPS)150</div>	<div>Well Pressure (WPRE)</div> <div>1900(PSIA)2550</div>		
	<div>Well Diameter From PFC1 to PFCS_T1</div>	<div>PFCS Fluid Resistivity (DRES) (OHMM)</div> <div>0-----360</div>		<div>Filtered Bubble Count (FBM)</div> <div>0(CPS)500</div>	<div>Well Temperature (WTEP) (DEGC)</div> <div>185-----220</div>		
	<div>Well Diameter From PFC2 to PFCS_T1</div>	<div>Well Fluid Density (WFDE) (G/C3)</div> <div>0-----2</div>					

OP System Version: 17C0-154

PFCS-A	17C0-154	PILS-A	17C0-154
DEFT-C2	17C0-154	PGMC-A/B	17C0-154
RST-C	17C0-154	PSPT-A/B	17C0-154

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
CSID	Casing Size I.D.	4 IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB
DDRS	Dual DEFT RB Source	D1RB
DFBD	DEFT Blank Disallowed Probes	NO
DFFI	DEFT Flip Image	NO
DFII	DEFT Image Interpolation	YES
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE
DFPP	Probes Arm Position	C
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
PFGC	PFCS Geometrical coefficient	1200
PFRE1	Downhole Resistor Probe 1	3000 OHMS
PFRE2	Downhole Resistor Probe 2	3000 OHMS
PFRE3	Downhole Resistor Probe 3	3000 OHMS
PFRE4	Downhole Resistor Probe 4	3000 OHMS
SDCF	Spinner Depth Constant Filter	6
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5
PILS-A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5
DEFT-C2: DEFT_C Tool		
CSID	Casing Size I.D.	4 IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB
DDRS	Dual DEFT RB Source	D1RB
DFBD	DEFT Blank Disallowed Probes	NO
DFFI	DEFT Flip Image	NO
DFII	DEFT Image Interpolation	YES
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE
DFPP2	Probes Arm Position (2nd tool)	D
PFGC	PFCS Geometrical coefficient	1200
PGMC-A/B: PSP Gradiomanometer Measurement Module		
CSID	Casing Size I.D.	4 IN
PDSH	Gradio Correction Density Shift	0 G/C3
RST-C: Reservoir Saturation Pro Tool C		
CSID	Casing Size I.D.	4 IN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
PSPT-A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	4 IN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	4 IN
System and Miscellaneous		
CSIZ	Current Casing Size	4.500 IN
DO	Depth Offset for Playback	-2.0 M
PP	Playback Processing	NORMAL

Input DLIS Files

Flip_FCS_DEFT_GMS_031LUP	FN:1	17-Dec-2009 07:29	2751.1 M	2123.9 M
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Output DLIS Files

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CUSTOMER_	FCS_ILS_DEFT_GMS_127PUC	FN:147	CUSTOMER	17-Dec-2009 11:37

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-7

Input DLIS Files

FCS_DEFT_GMS_RST_104LUP

FN:101

16-Dec-2009 16:02 2751.3 M

2123.9 M

Output DLIS Files

DEFAULT

FCS_DEFT_GMS_RST_028PUP

FN:24

PRODUCER

16-Dec-2009 16:18 2751.7 M

2124.3 M

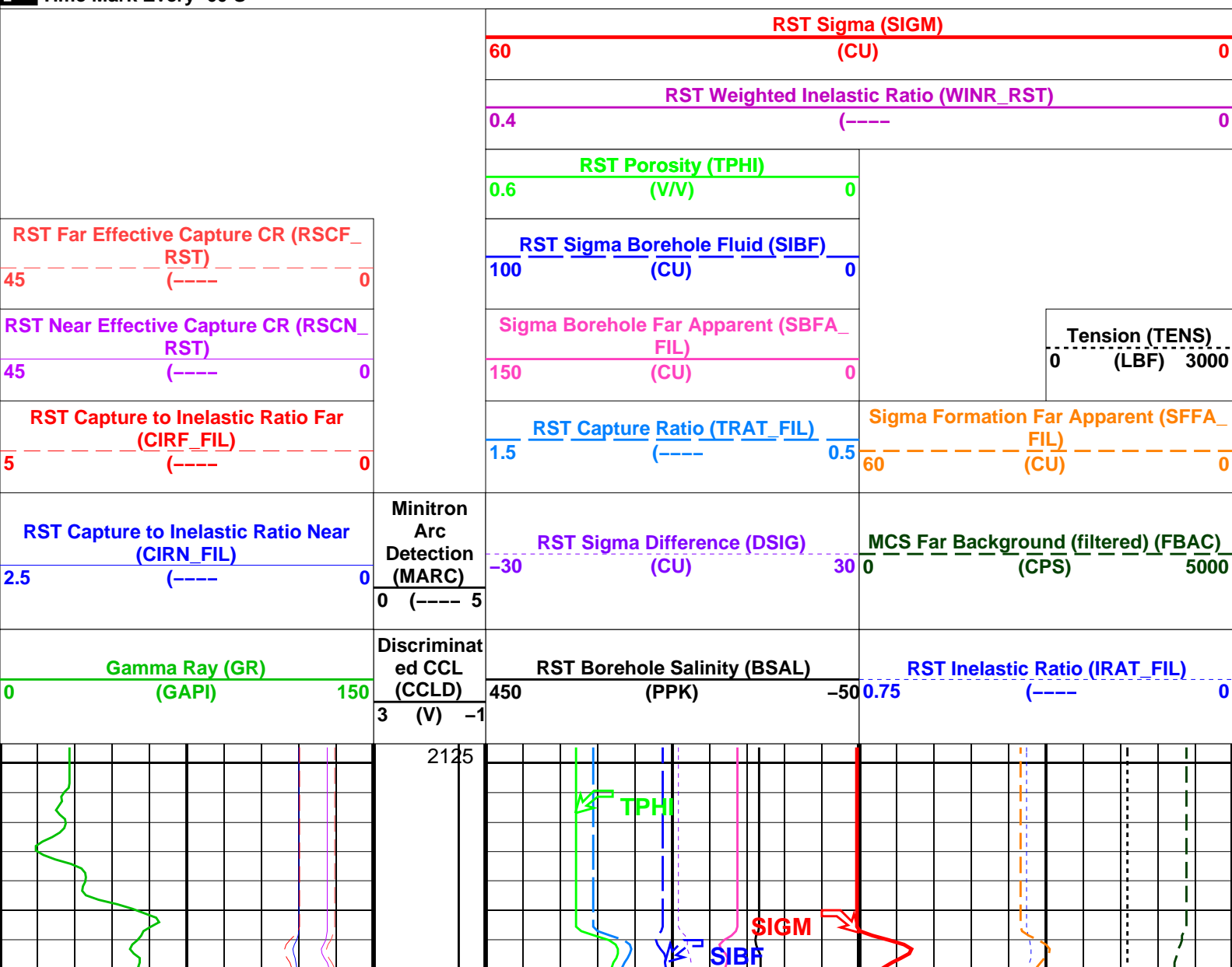
OP System Version: 17C0-154

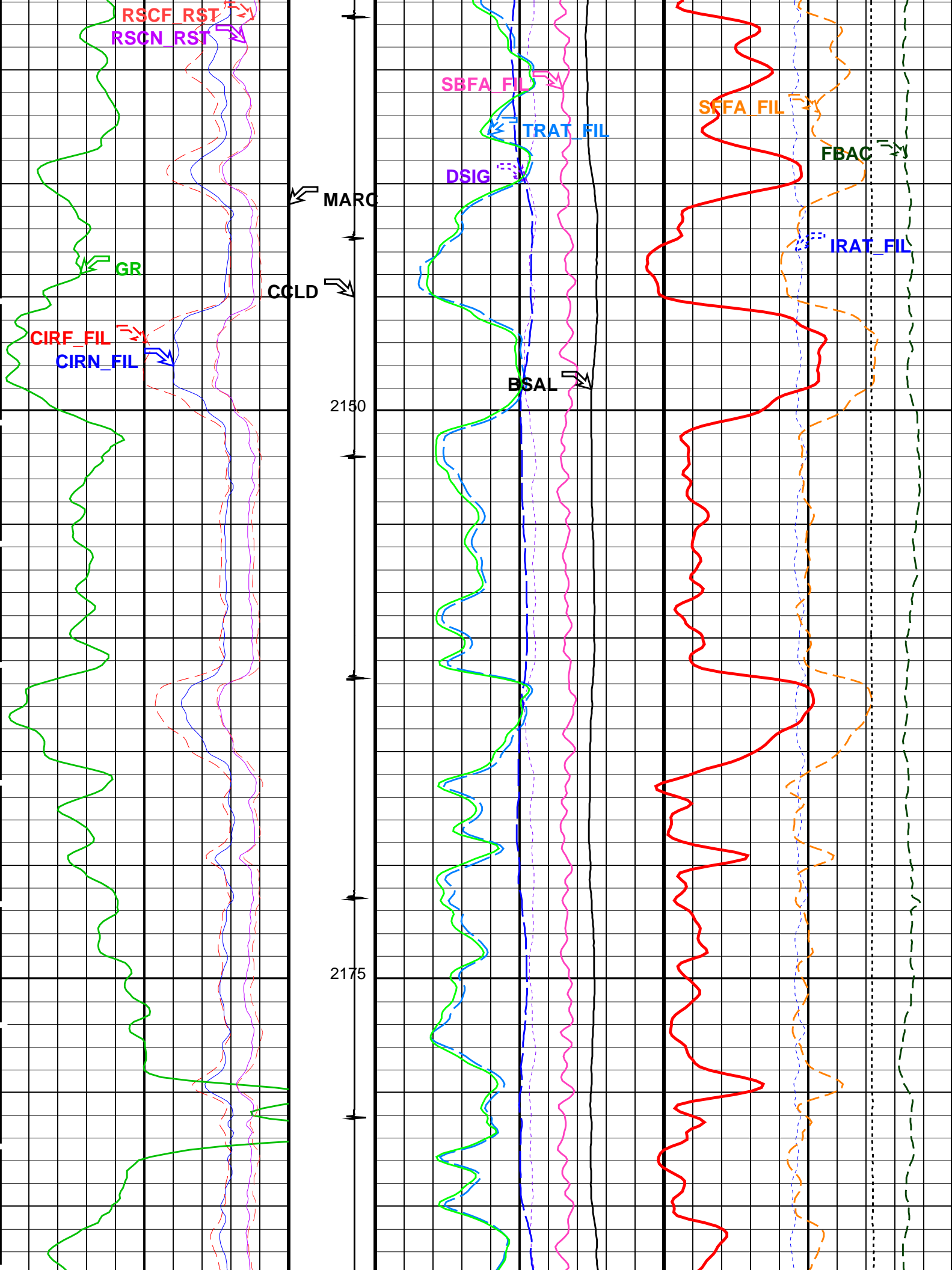
PFCS-A 17C0-154
PGMC-A/B 17C0-154
PILS-A 17C0-154

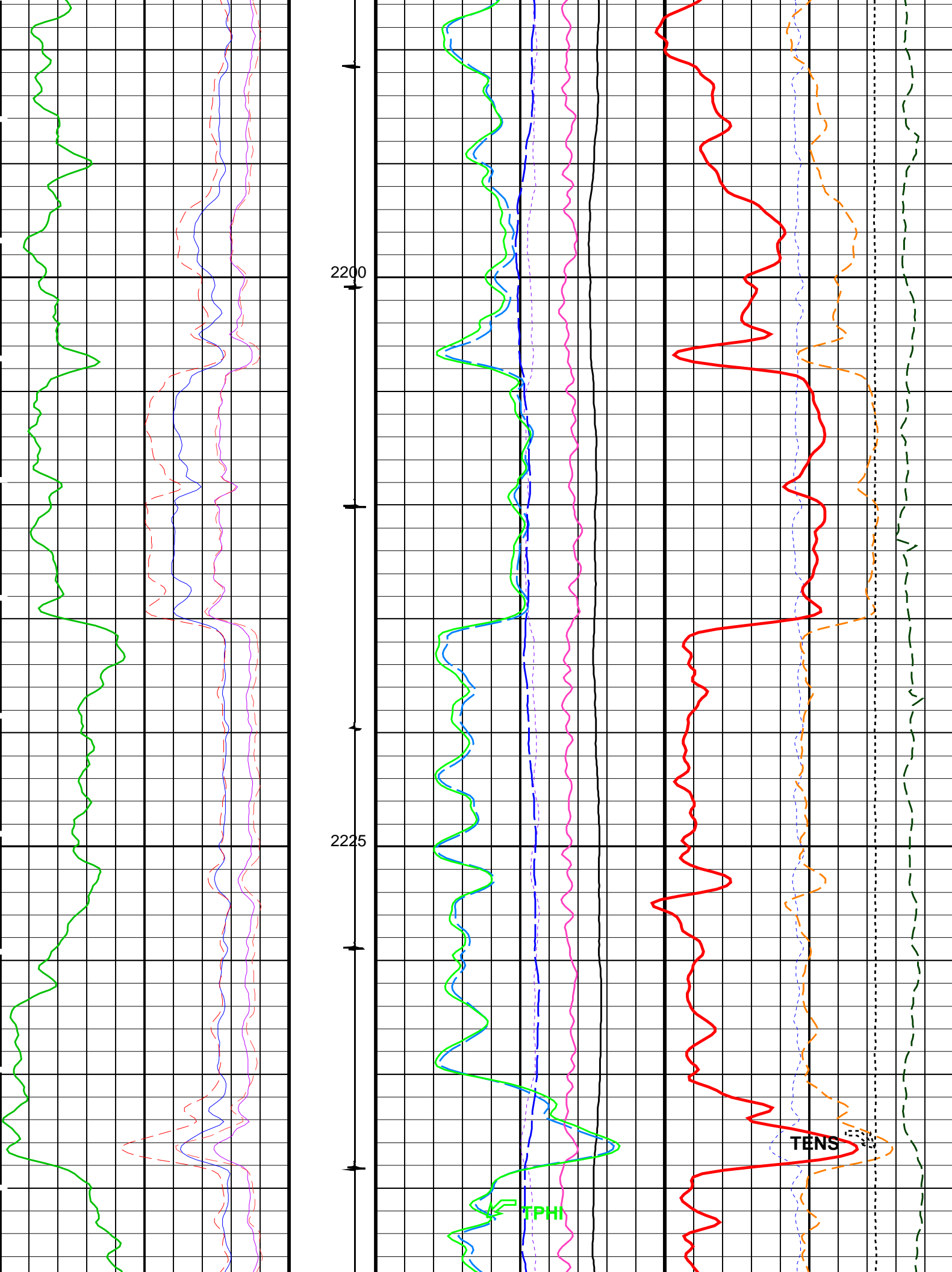
DEFT-C2 17C0-154
RST-C 17C0-154
PSPT-A/B 17C0-154

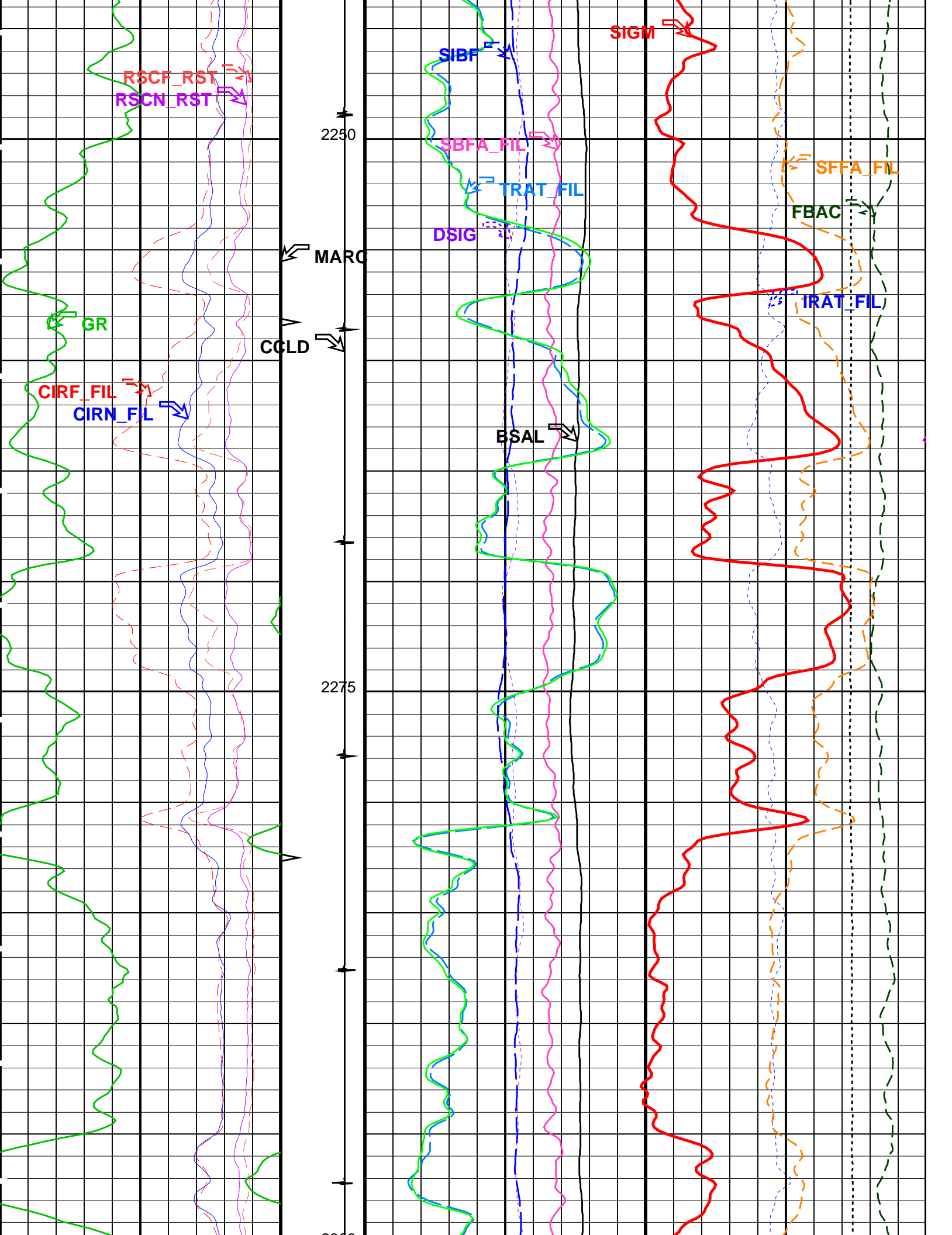
PIP SUMMARY

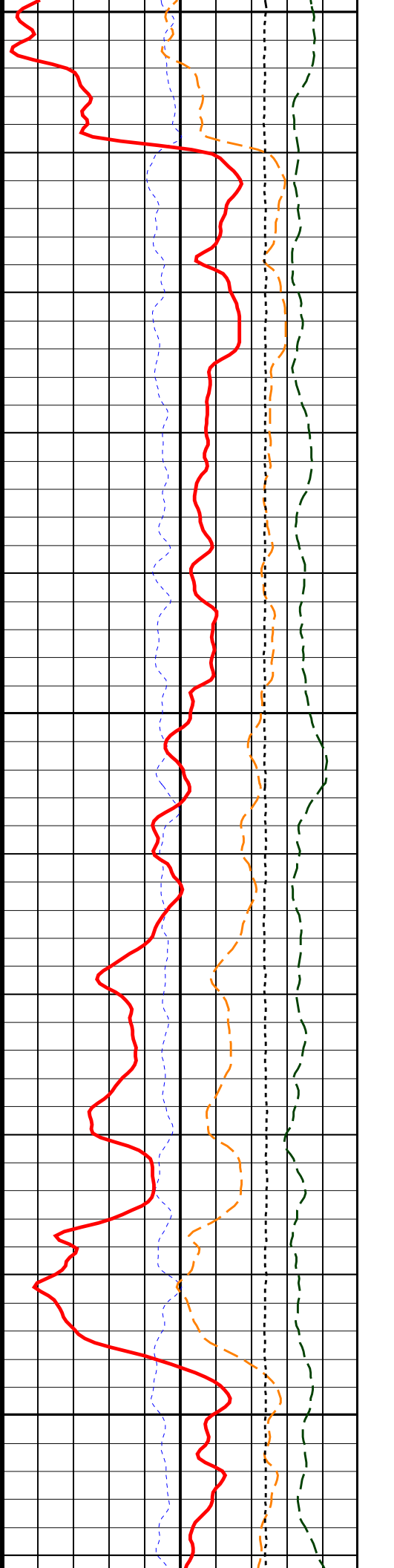
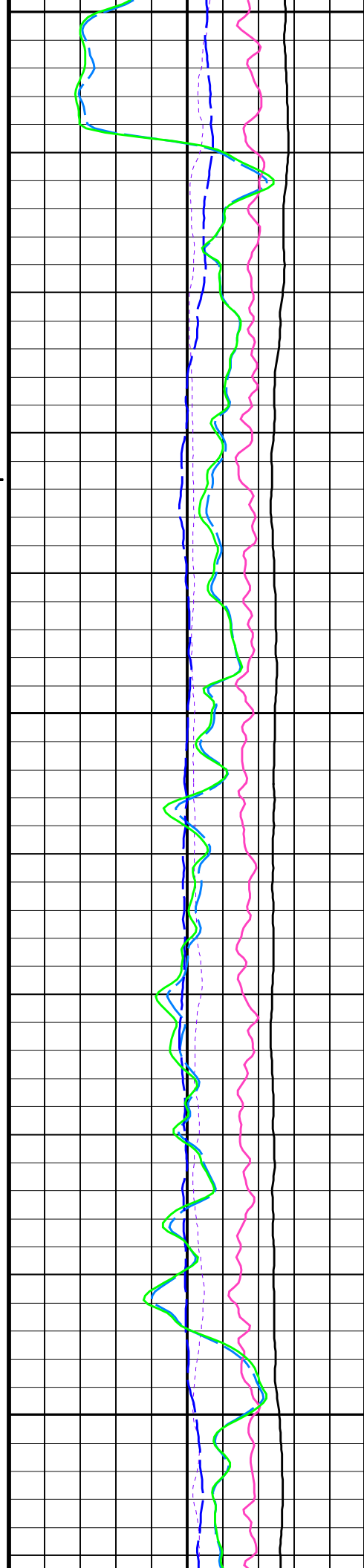
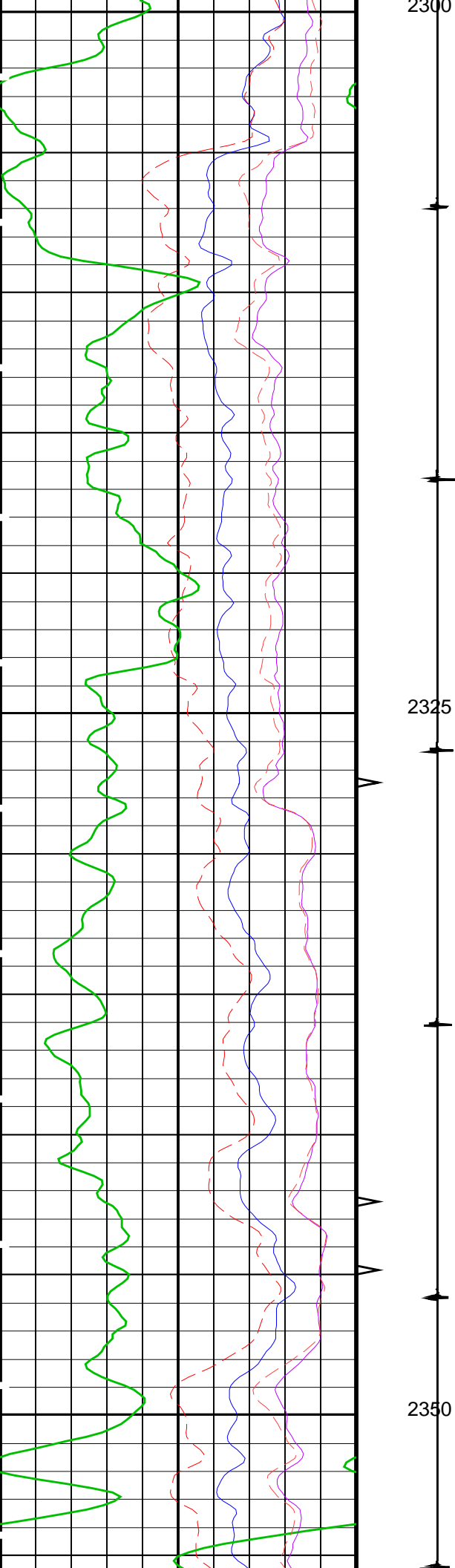
Time Mark Every 60 S

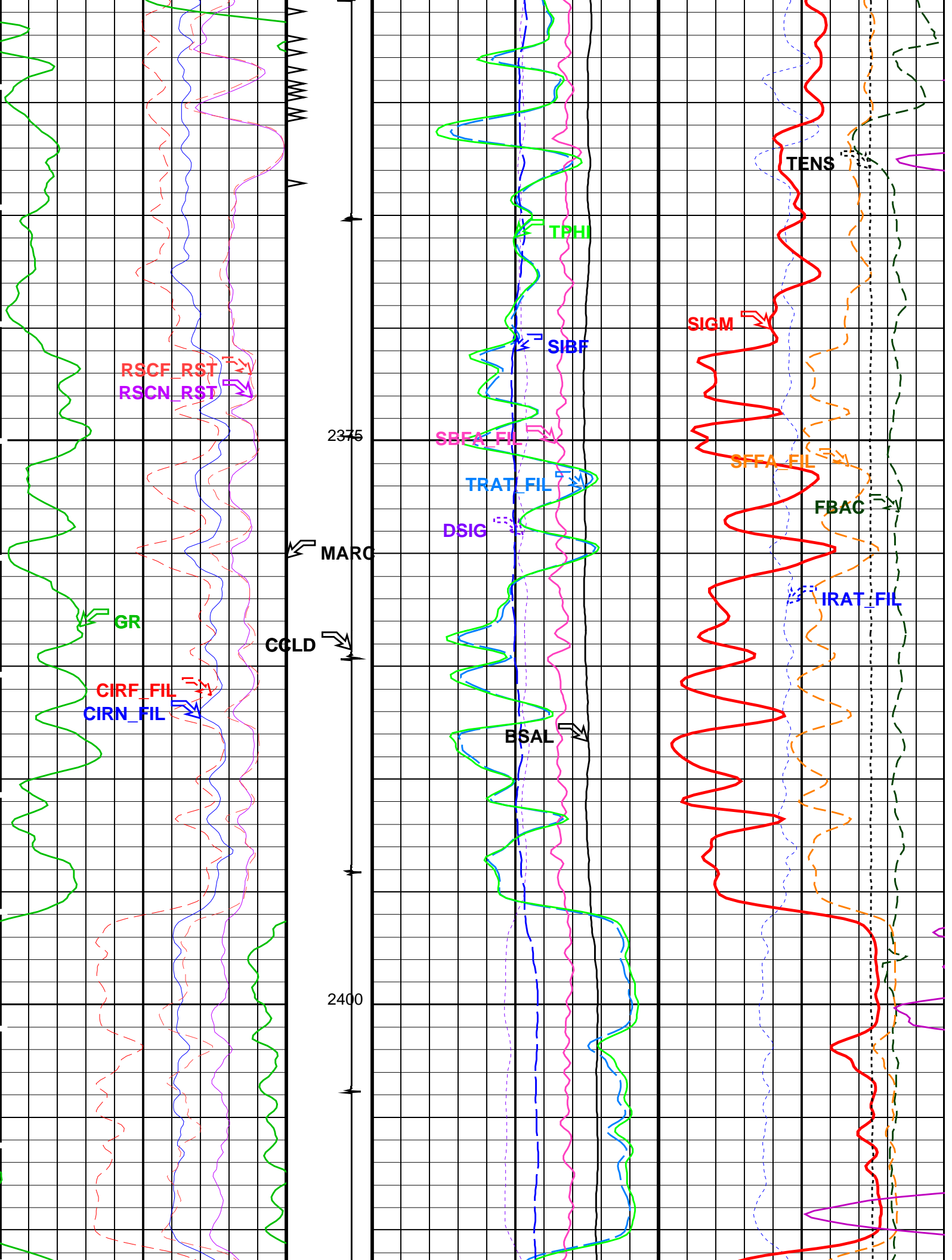


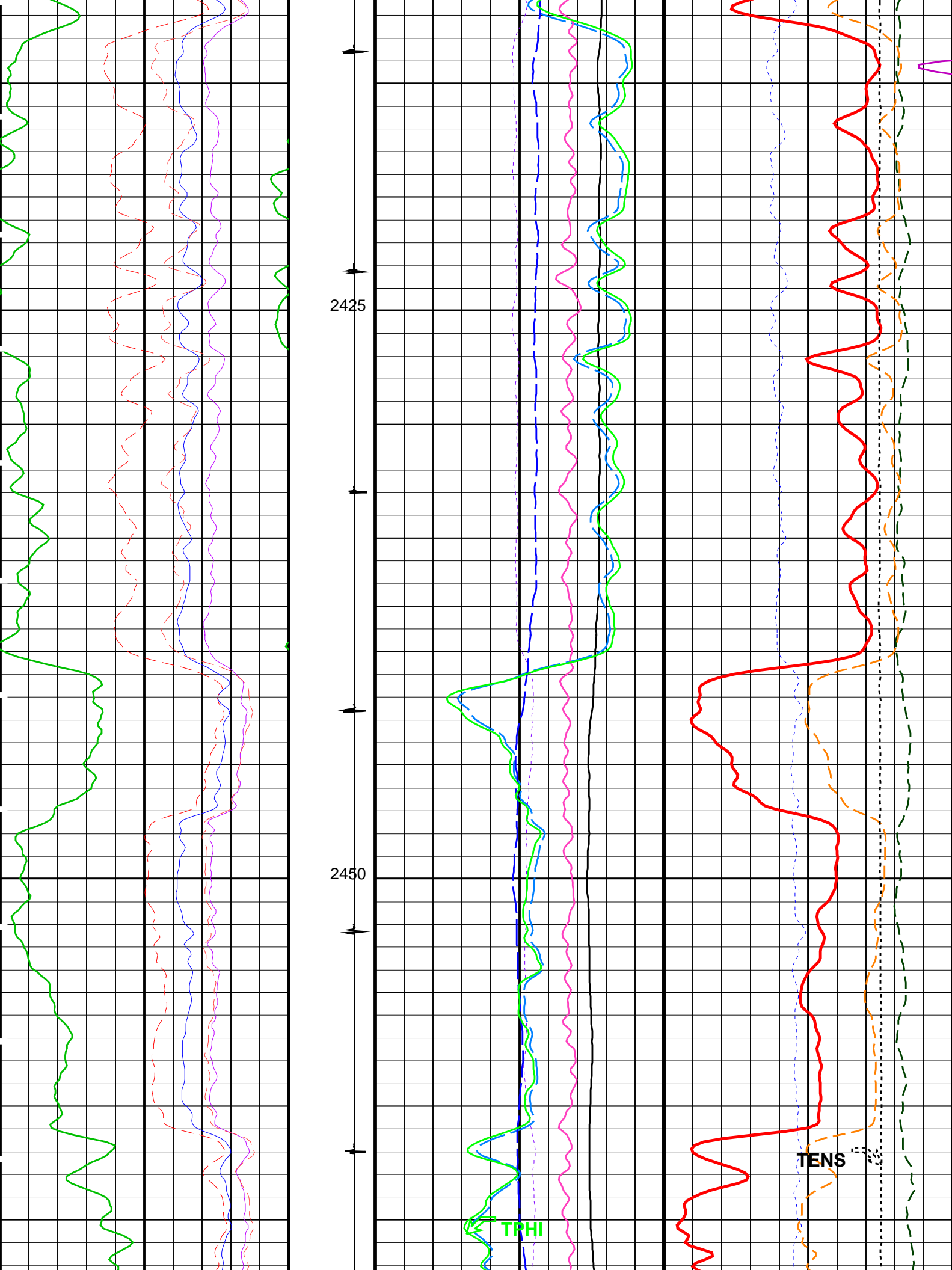


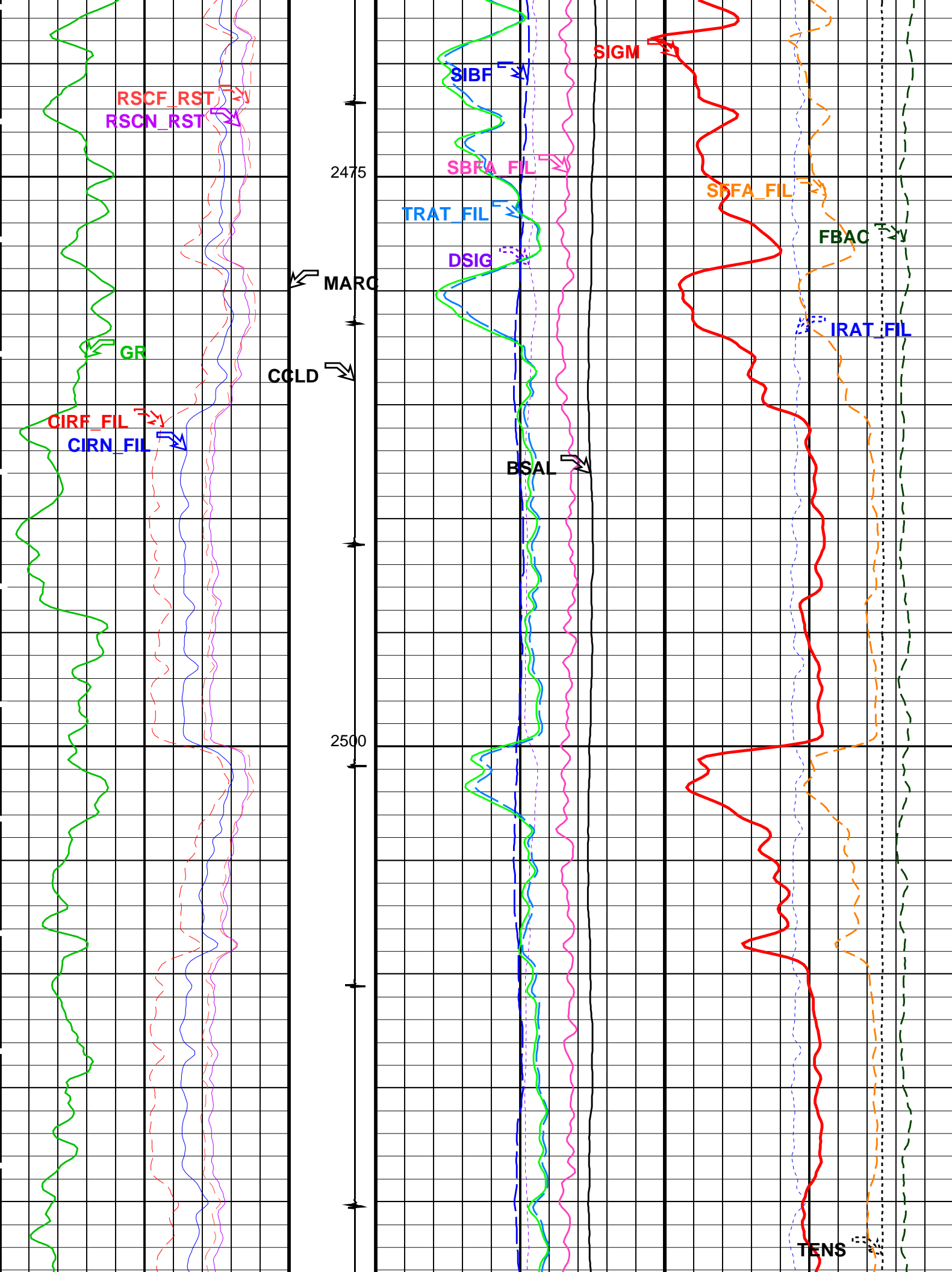


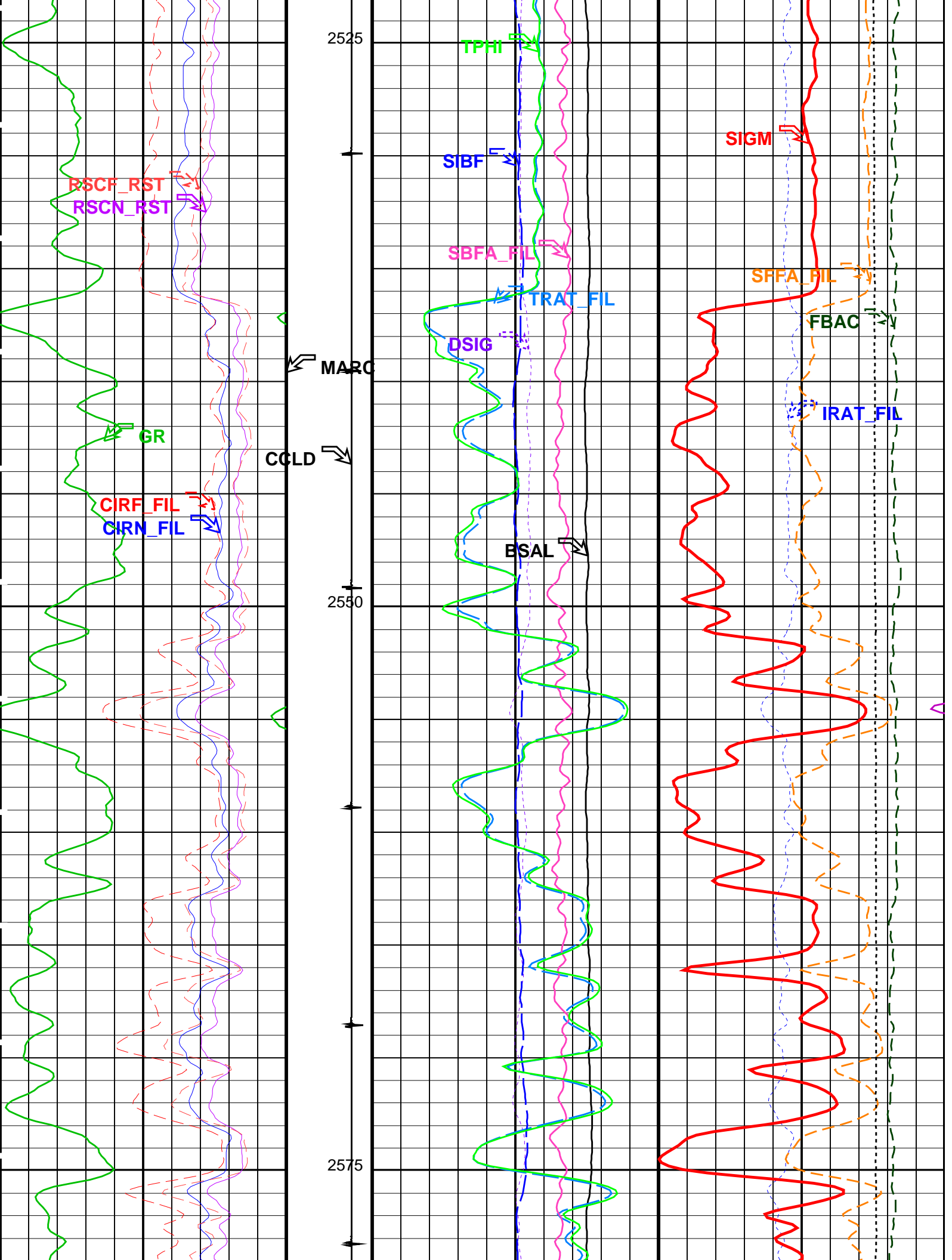


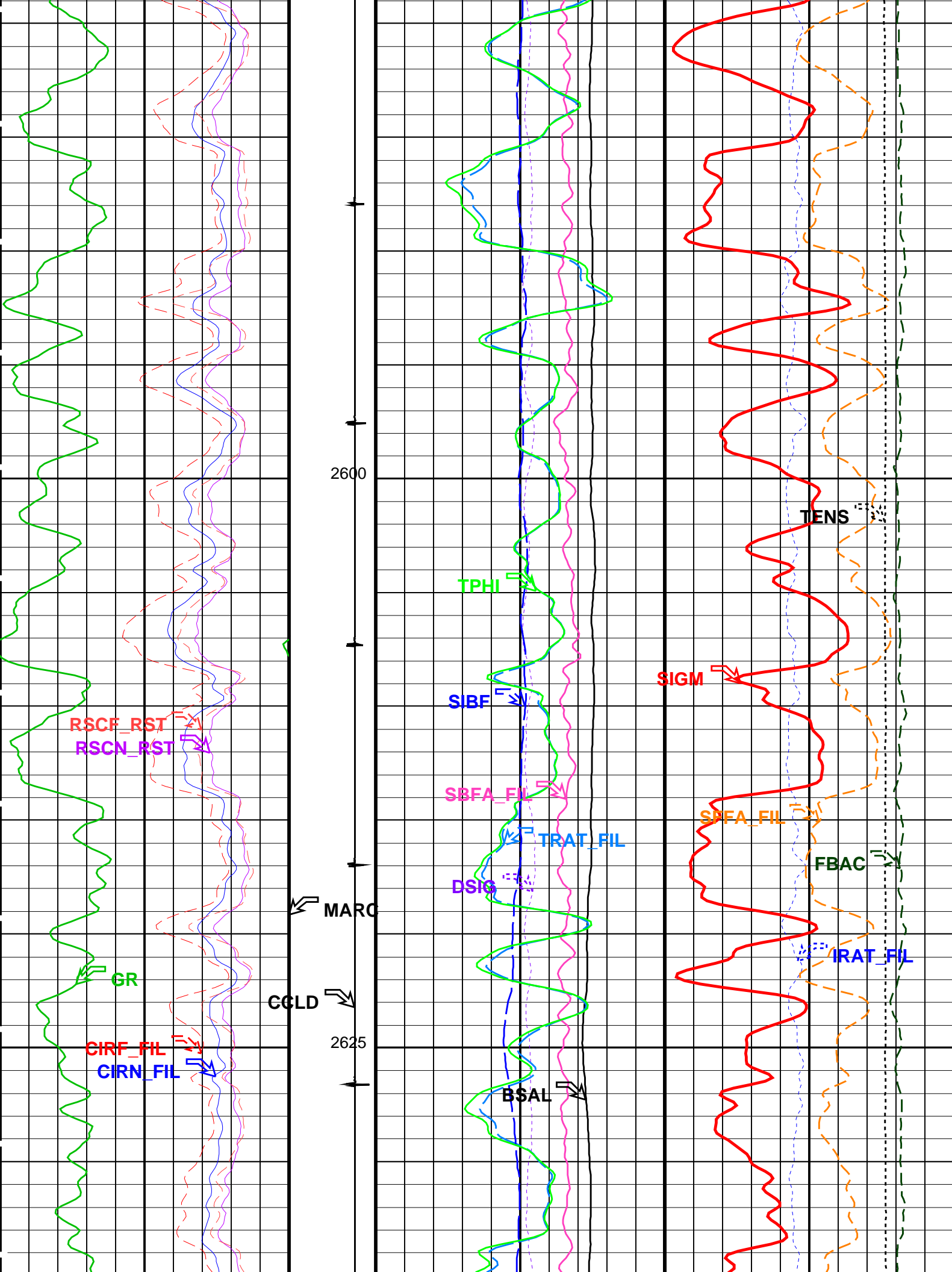


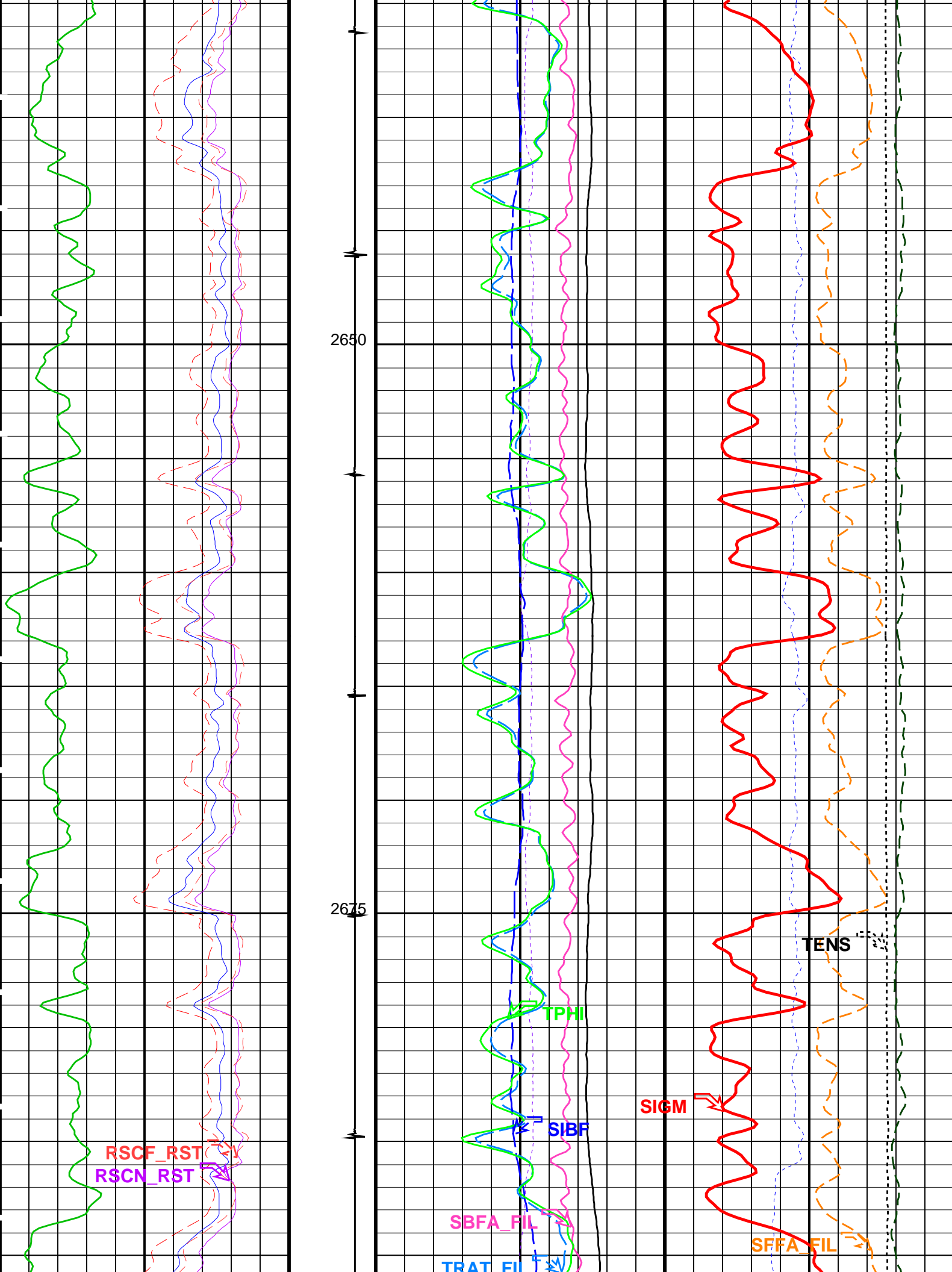


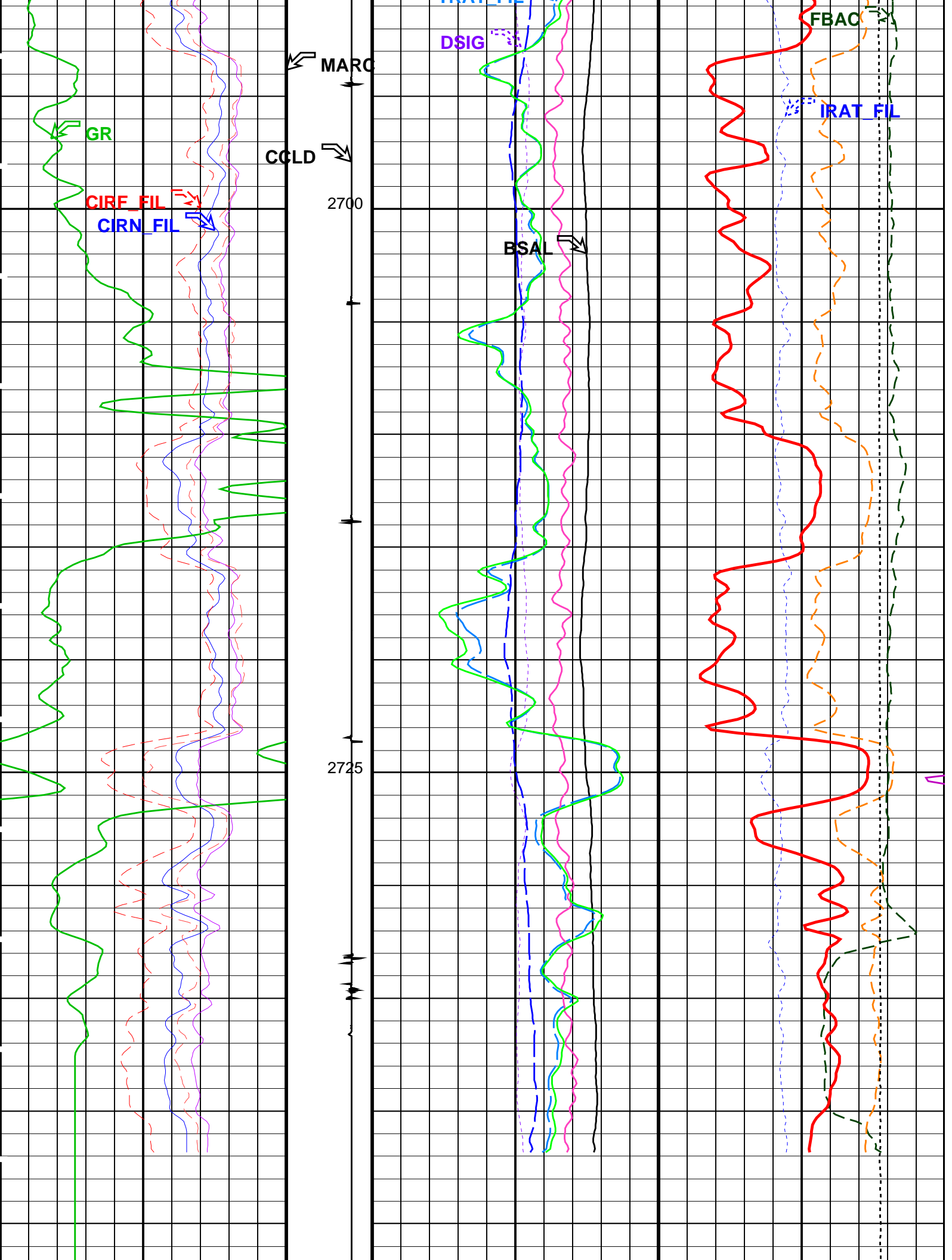













PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

Input DLIS Files					
FCS_DEFT_GMS_RST_104LUP	FN:101	16-Dec-2009 16:02	2751.3 M	2123.9 M	
Output DLIS Files					
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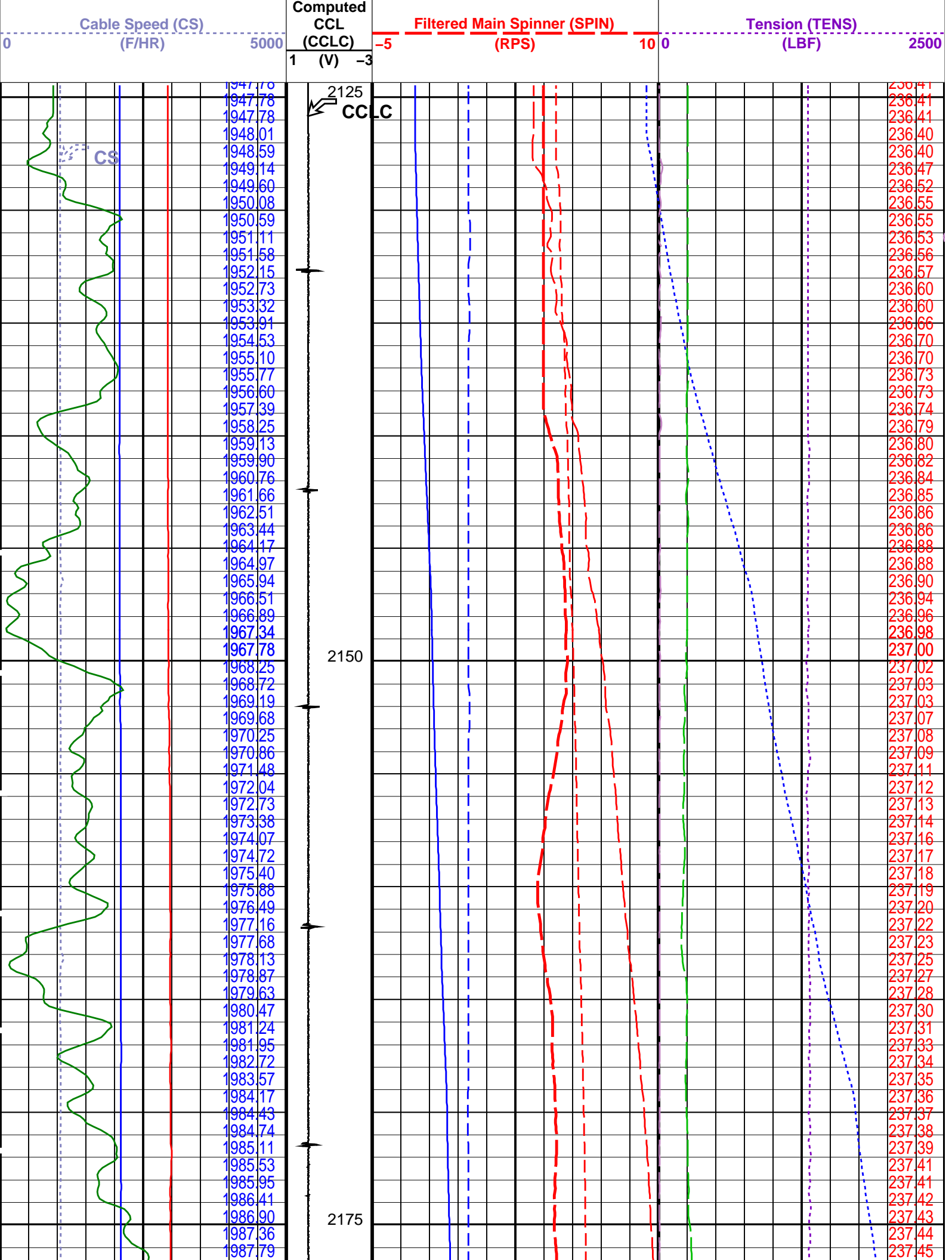


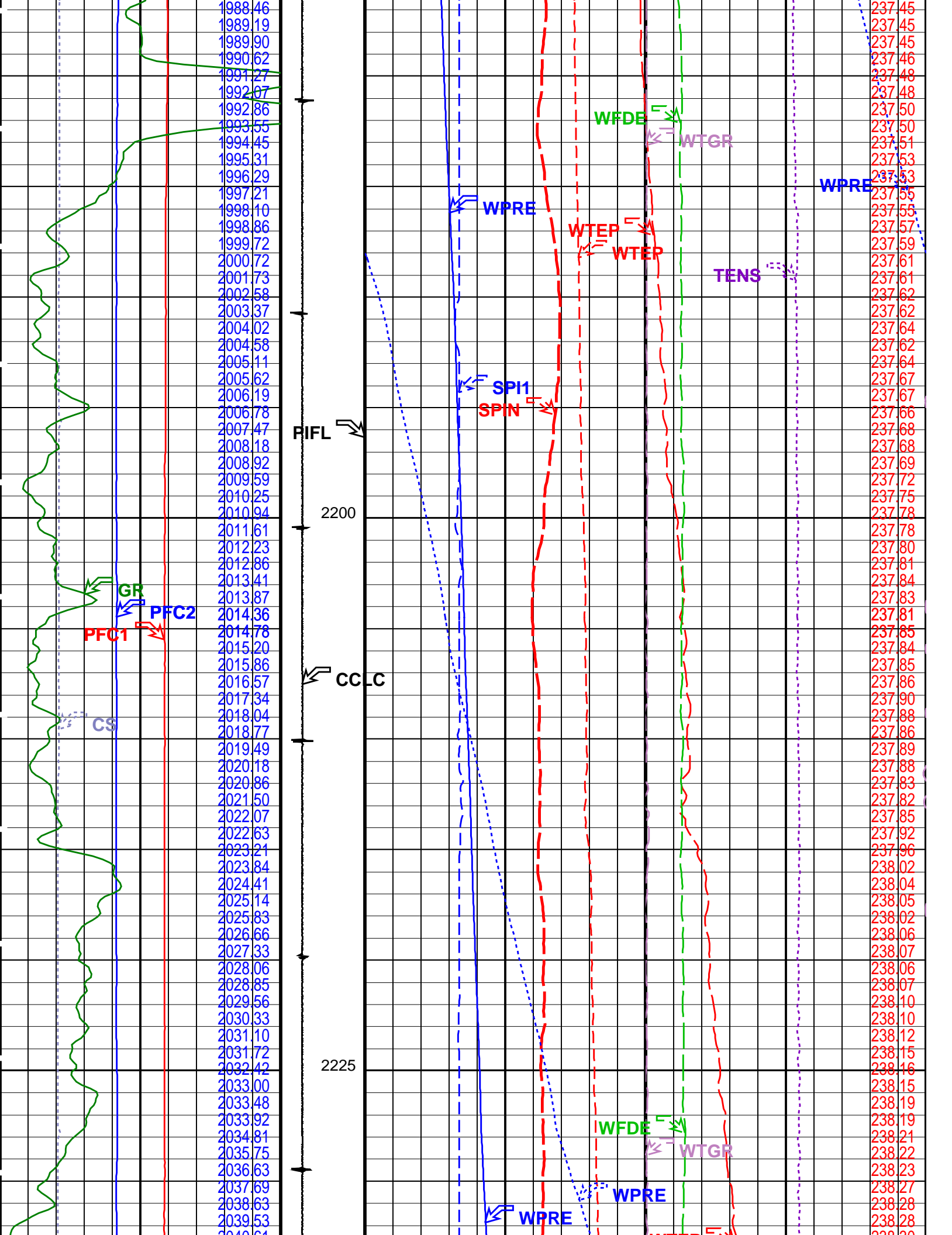
PLT flowing up log @ 980 ft/hr
 2145 – 2751m MDKB

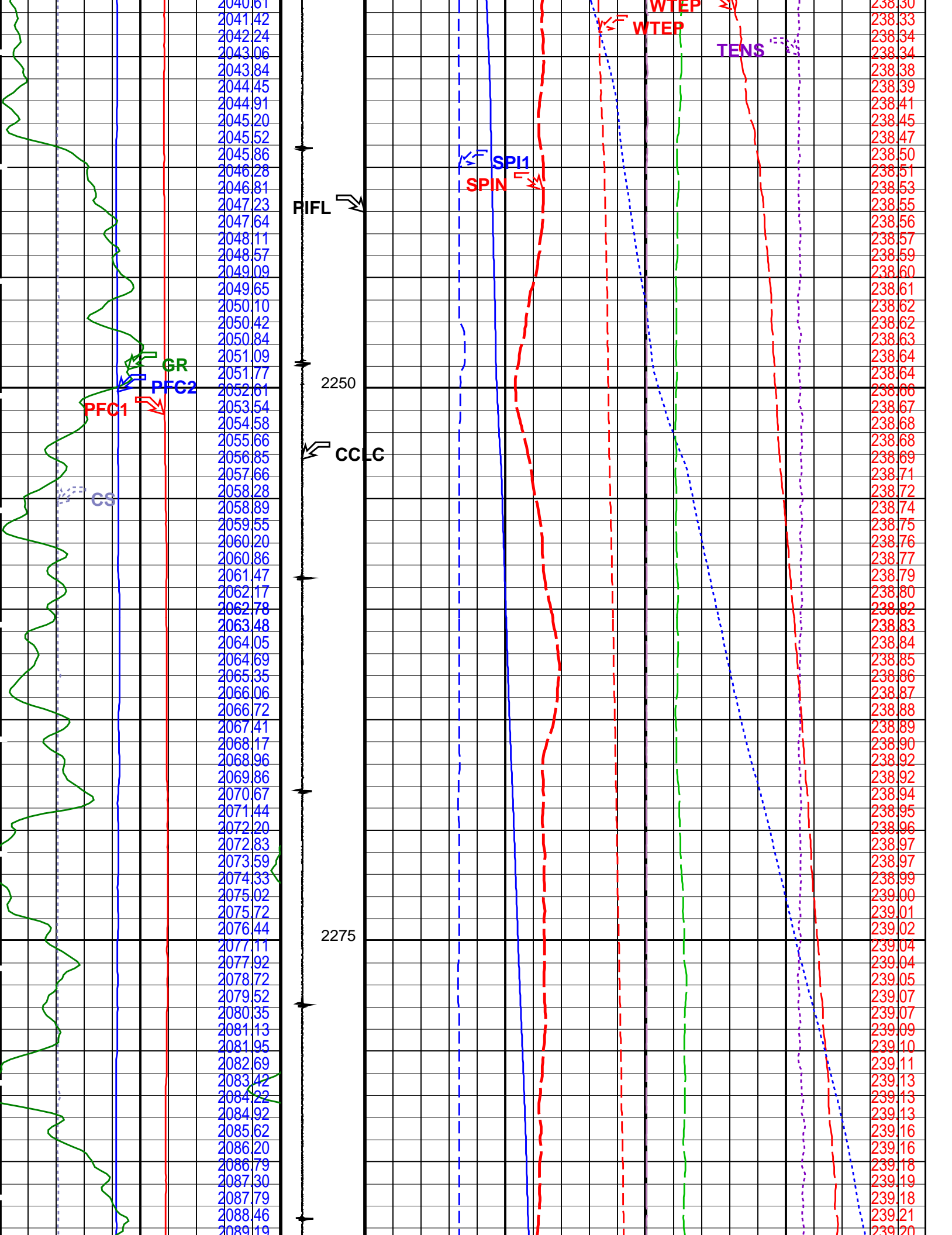
MAXIS Field Log

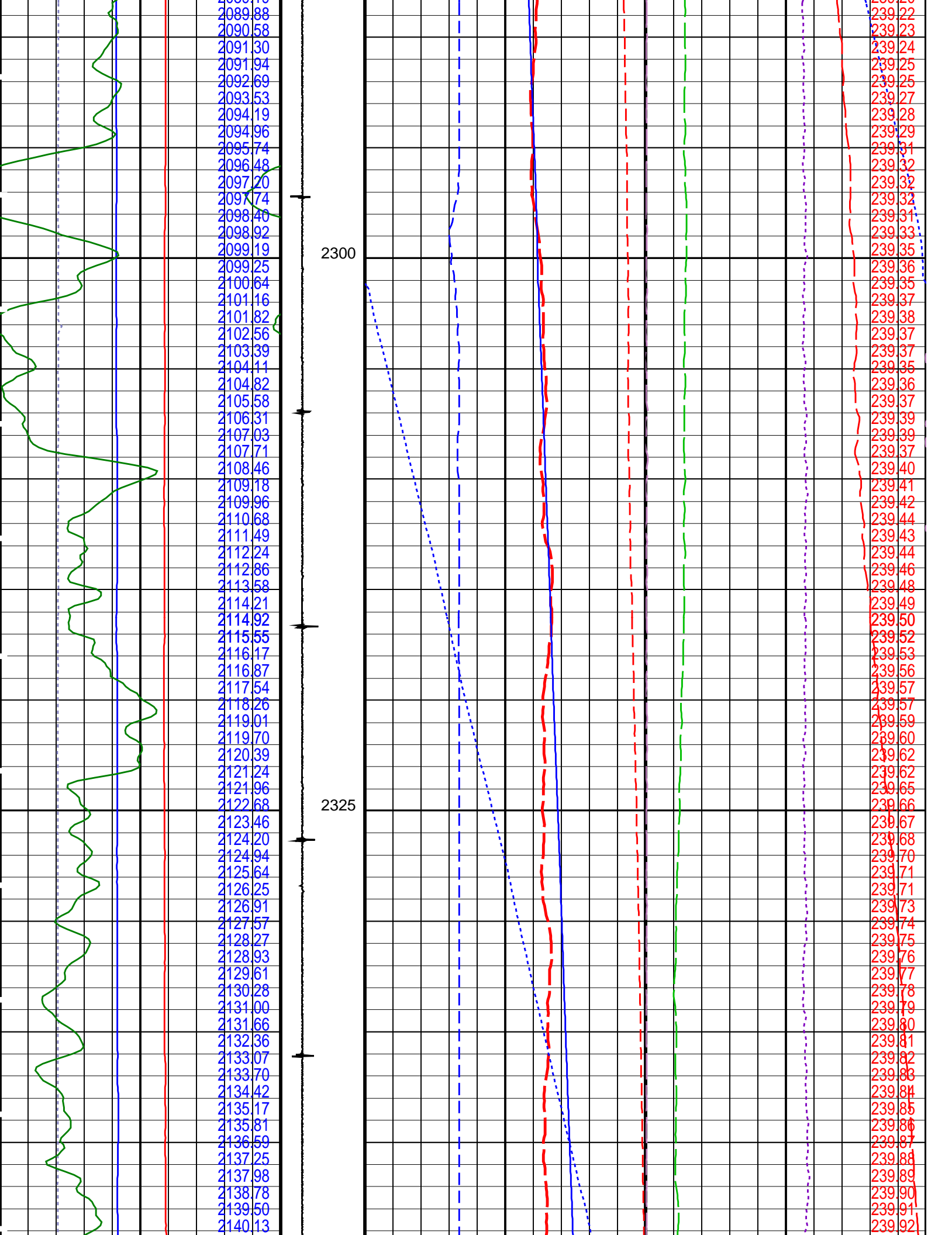
Input DLIS Files					
FCS_DEFT_GMS_RST_104LUP	FN:101	16-Dec-2009 16:02	2751.3 M	2123.9 M	
Output DLIS Files					
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OP System Version: 17C0-154					
PFCS-A	17C0-154	DEFT-C2	17C0-154		
PGMC-A/B	17C0-154	RST-C	17C0-154		
PILS-A	17C0-154	PSPT-A/B	17C0-154		

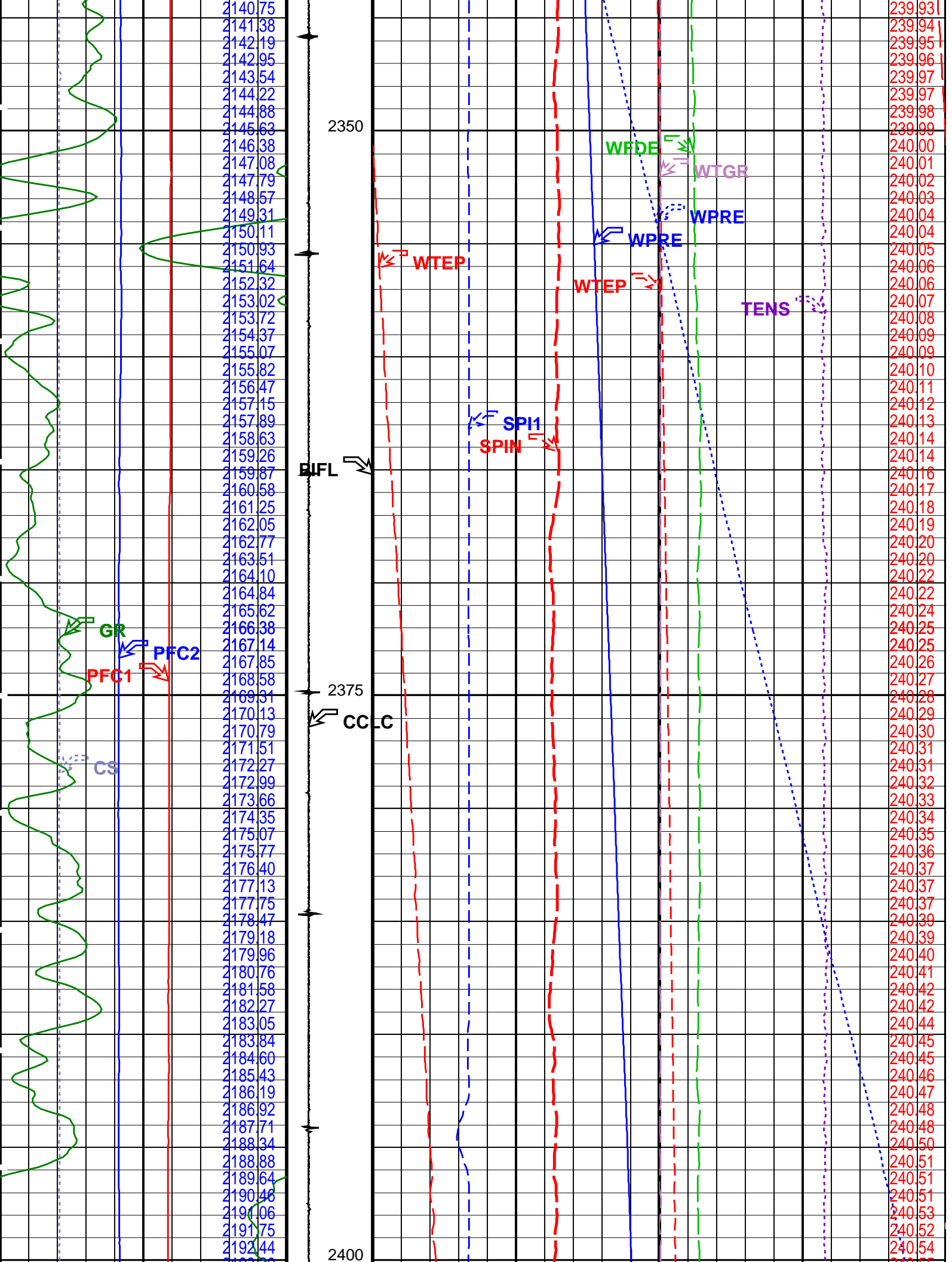
PIP SUMMARY											
								Well Temperture (WTEP) (DEGF)			
								Well Fluid Density (WFDE) (G/C3)			
								Amplified Well Pressure (WPRE) (PSIA)			
								Well Pressure (WPRE) (PSIA)			
								Well Temperature (WTEP) (DEGF)			
								Well Temperature (WTEP) (DEGF)			
								Well Temperature Gradient (WTGR) (DC/M)			
								Filtered Auxiliary Spinner 1 (SPI1) (RPS)			
Time Mark Every 60 S		Well Pressure (WPRE) (PSIA)		Gamma Ray (GR) (GAPI)		PFCS Y Caliper (PFC2) (IN)		Perfo Zone From PERFO CURVE to D3T		PFCS X Caliper (PFC1) (IN)	
		1900		0		0				10	
		2550		0		150				0	
				5		10					
				250							

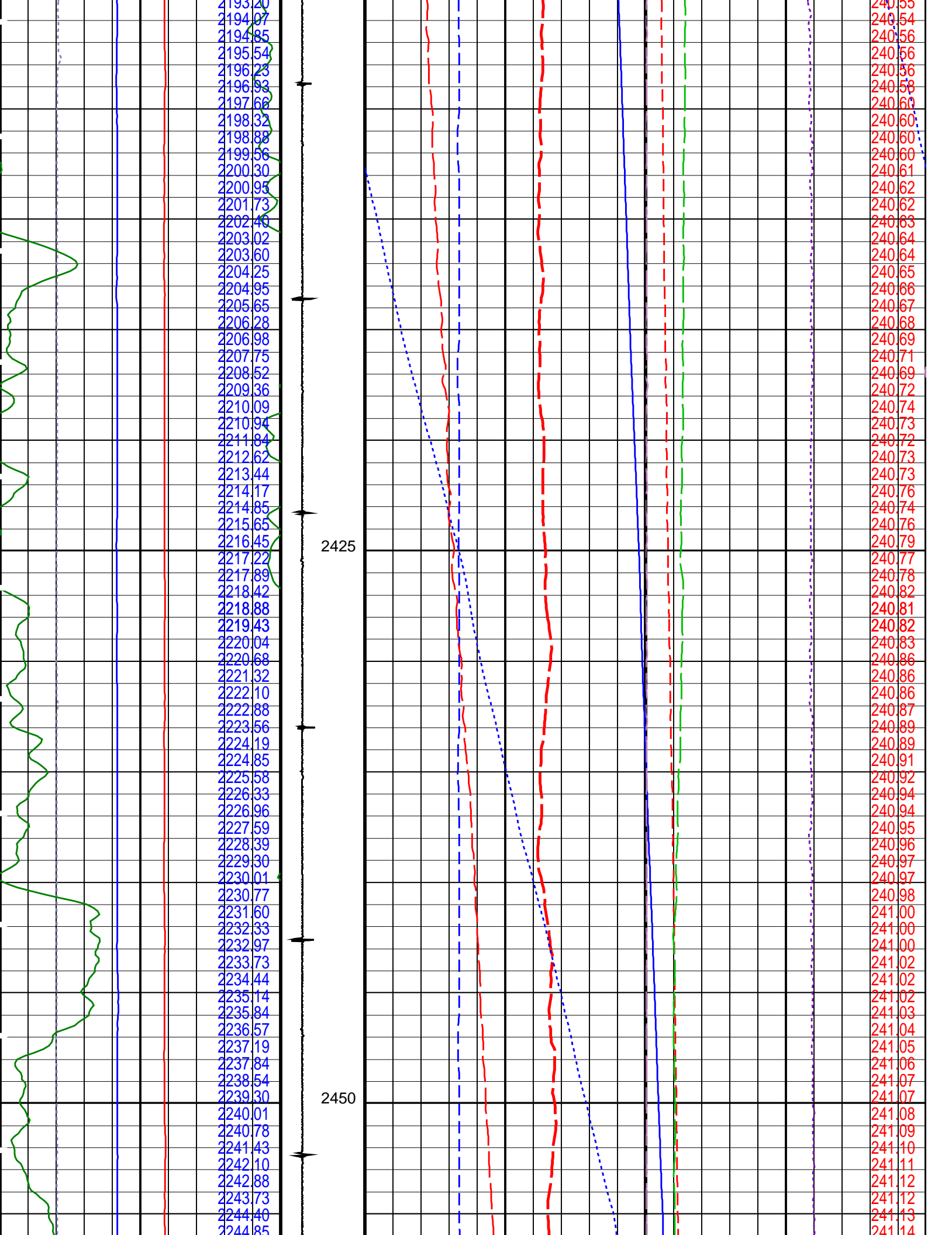


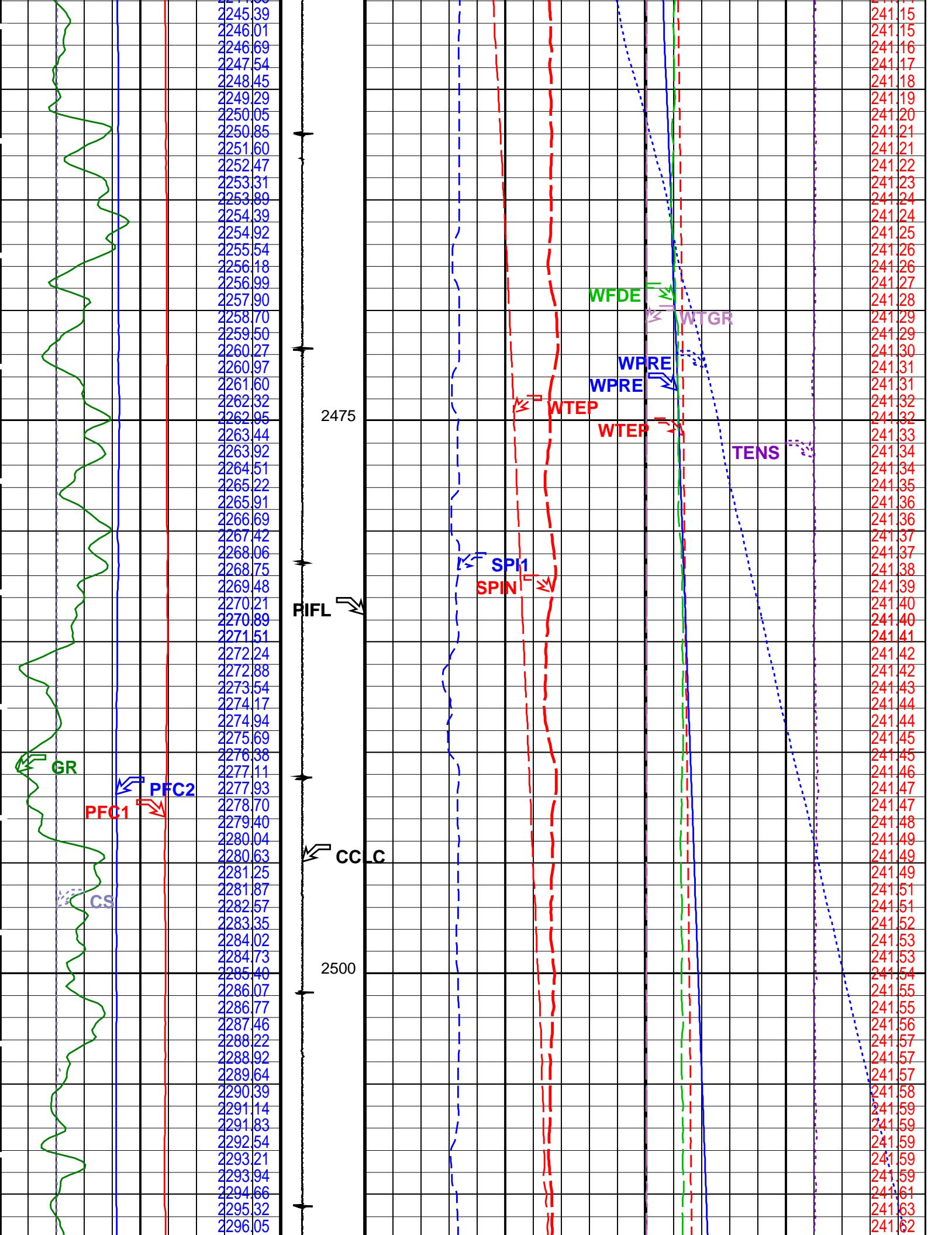


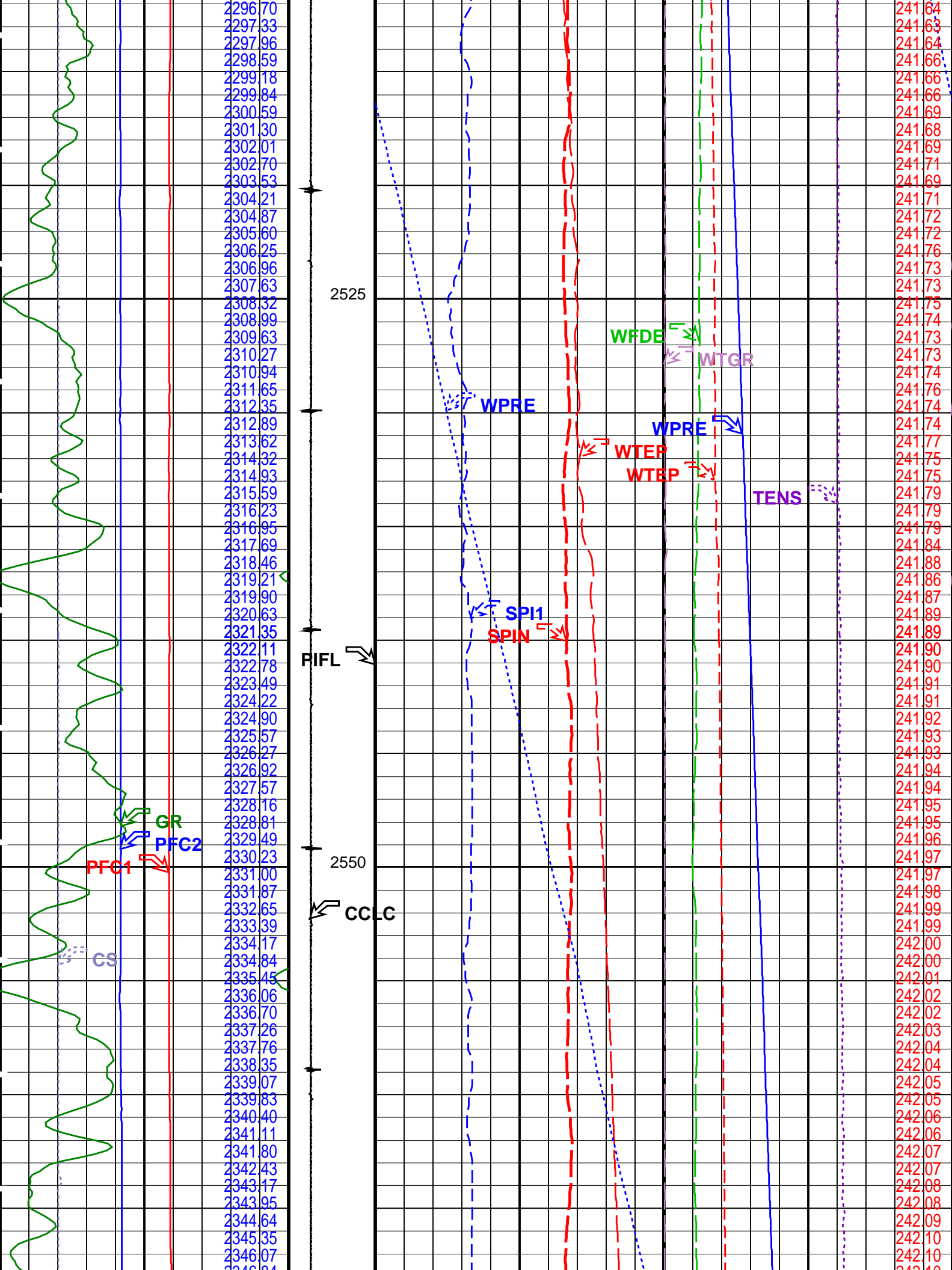


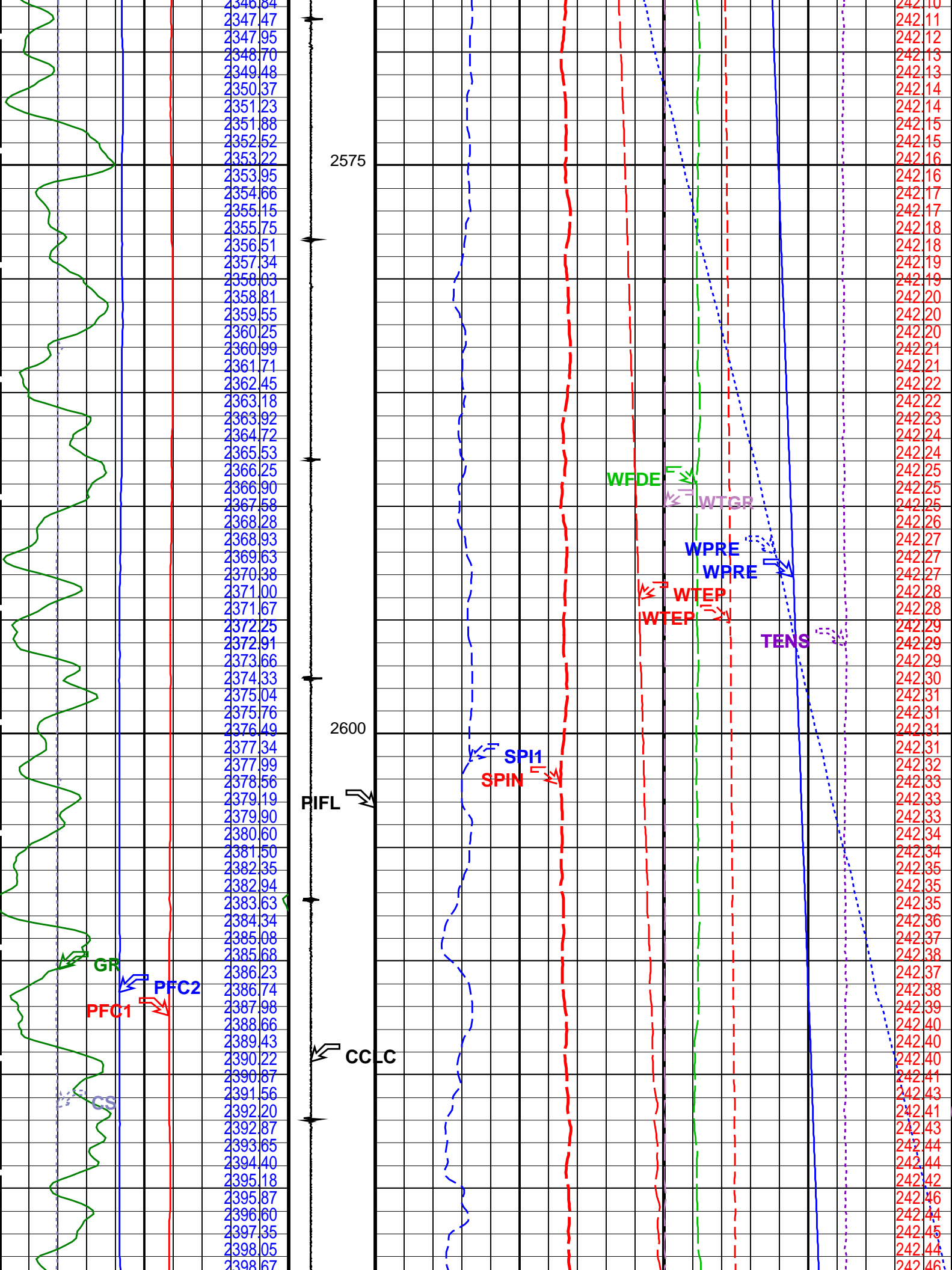


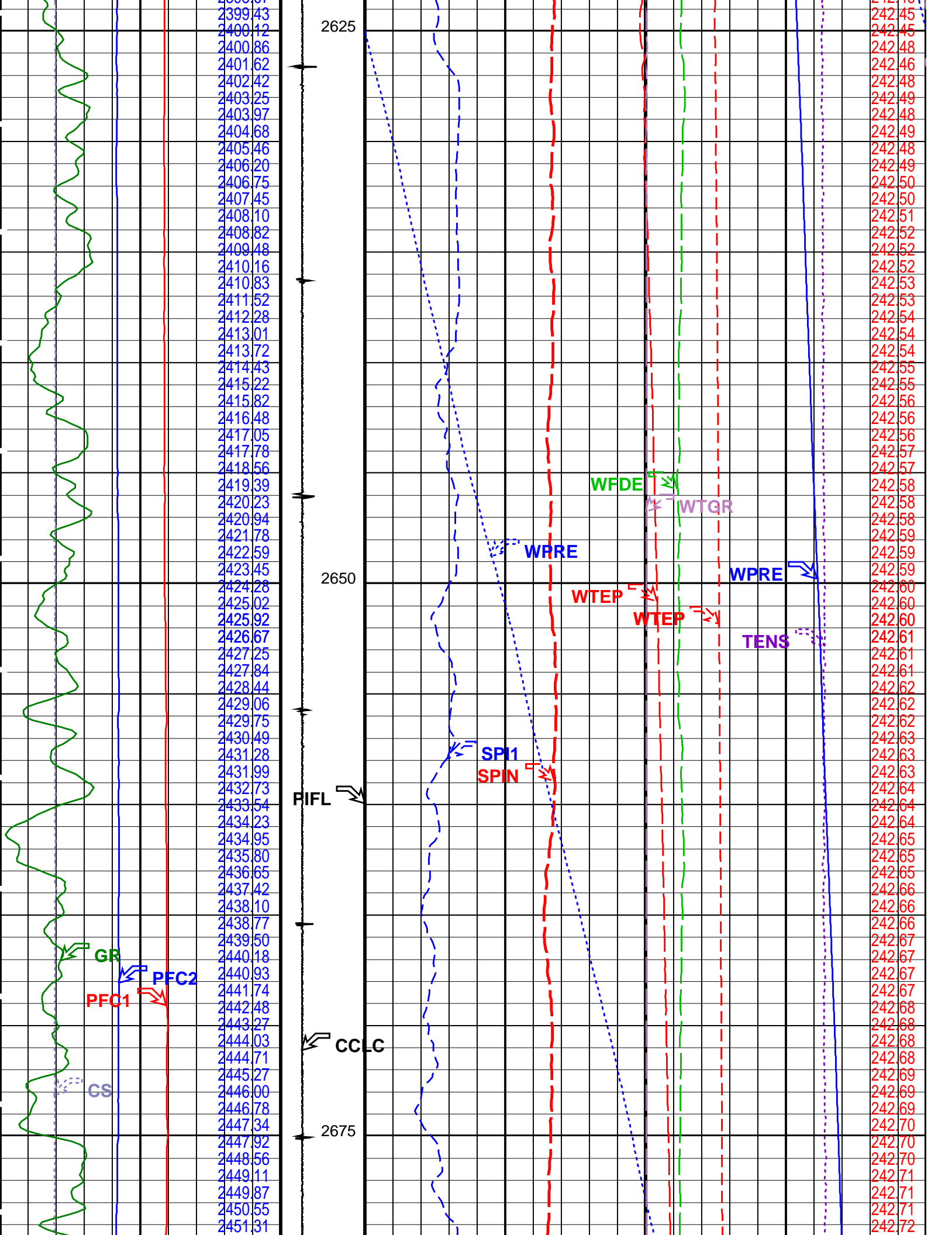


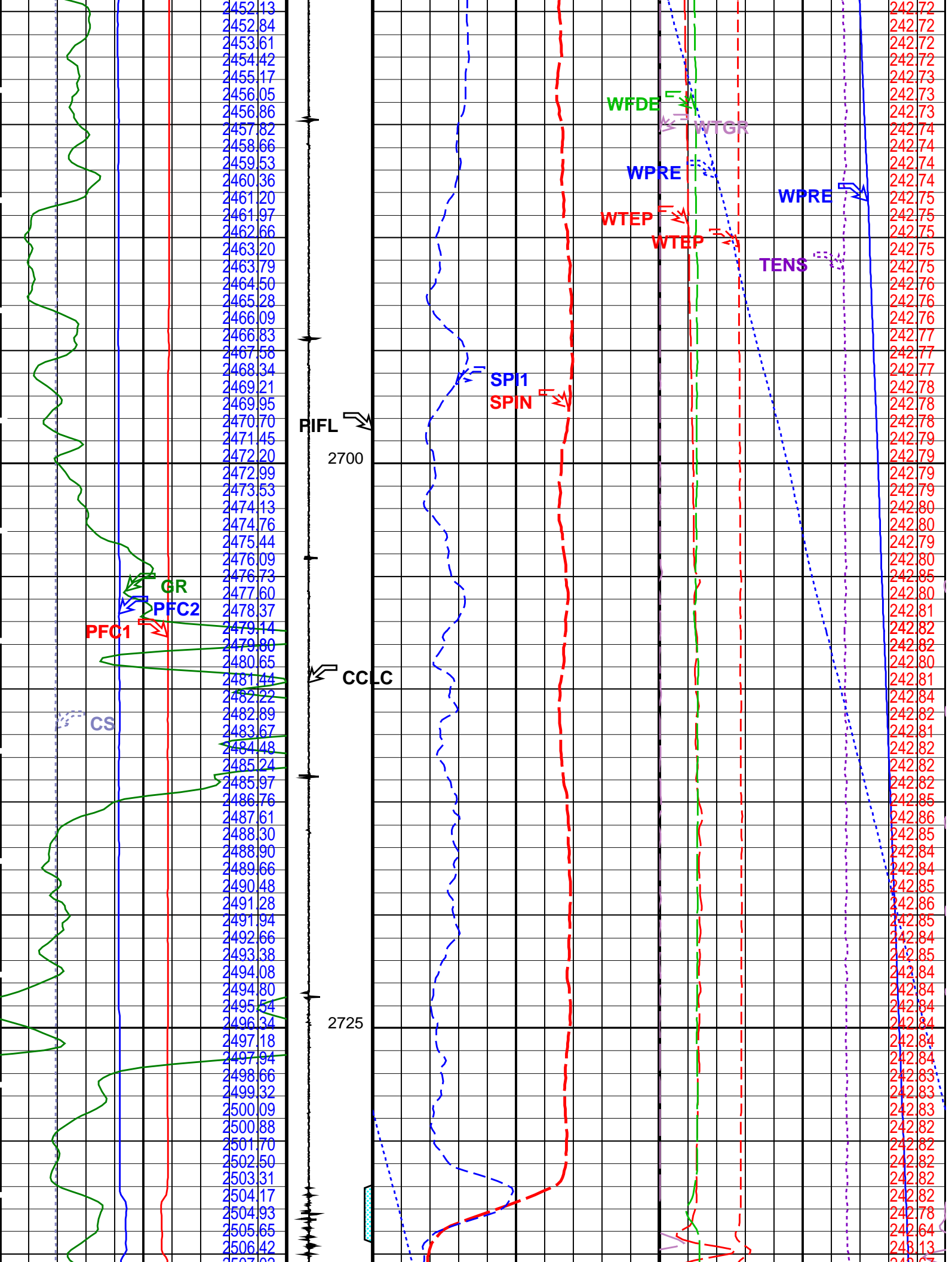


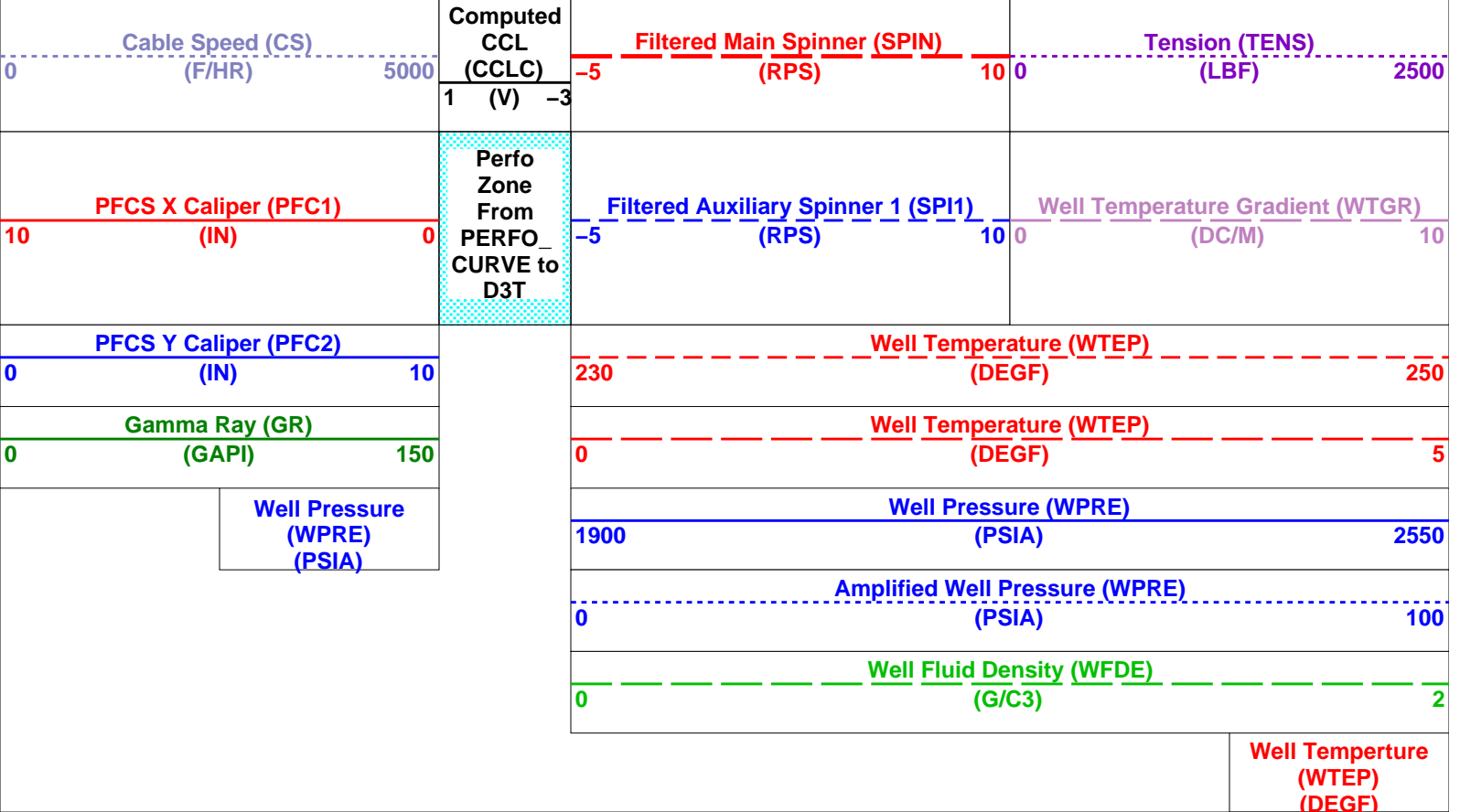
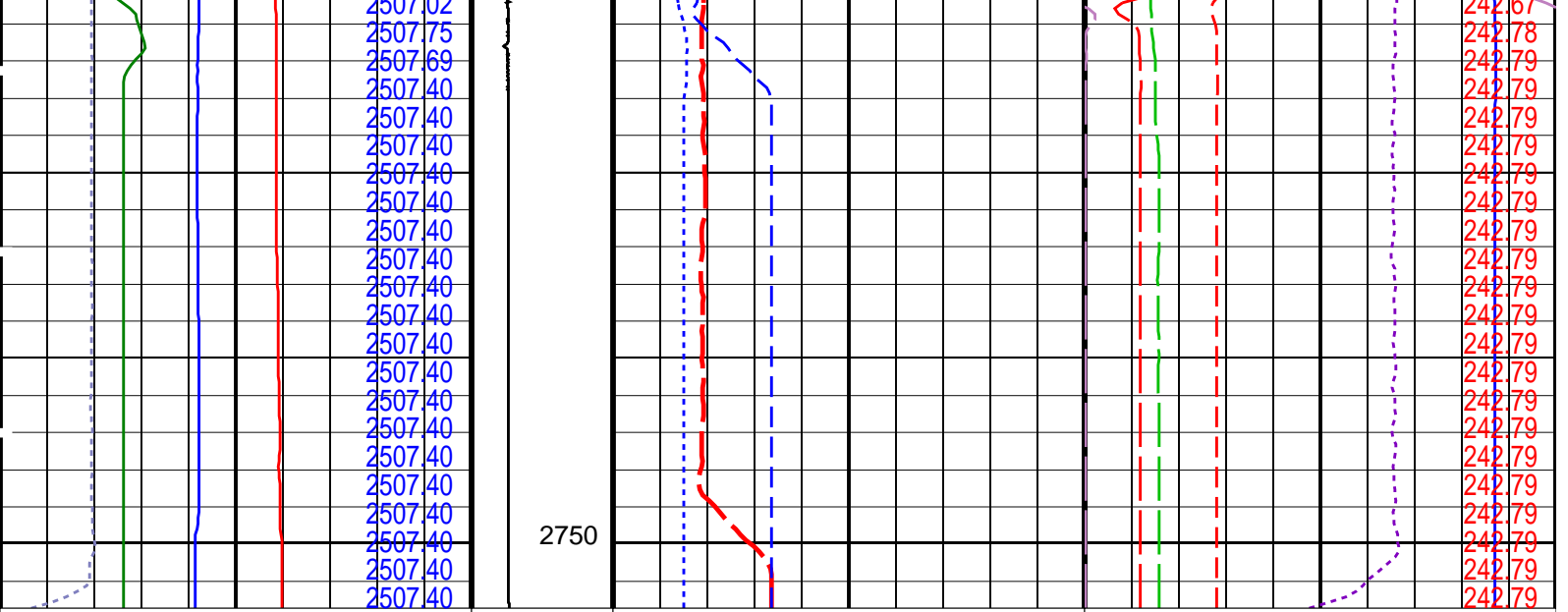












PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1_1 Vertical Scale: 1:200 Graphics File Created: 16-Dec-2009 17:12

OP System Version: 17C0-154

PFCS-A	17C0-154	DEFT-C2	17C0-154
PGMC-A/B	17C0-154	RST-C	17C0-154
PILS-A	17C0-154	PSPT-A/B	17C0-154

Parameters		
DLIS Name	Description	Value
PFCS-A:	PSP Flow and caliper Tool	
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A

SPIN	PGMC-A/B: PSP Gradiomanometer Measurement Module	Main Spinner Flowmeter Sonde	PFCs-A_2.5	
PDSH	RST-C: Reservoir Saturation Pro Tool C	Gradio Correction Density Shift	0	G/C3
GDEV	PILS-A: PSP In Line Spinner Flowmeter	Average Angular Deviation of Borehole from Normal	0	DEG
AMOD		Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF		Spinner Depth Constant Filter	6	
SPI1		Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
SPIN		Main Spinner Flowmeter Sonde	PFCs-A_2.5	
	PSPT-A/B: Production Services Logging Platform			
GDEV	System and Miscellaneous	Average Angular Deviation of Borehole from Normal	0	DEG
DO		Depth Offset for Playback	0.4	M
PP		Playback Processing	NORMAL	

Input DLIS Files

FCS_DEFT_GMS_RST_104LUP FN:101 16-Dec-2009 16:02 2751.3 M 2123.9 M

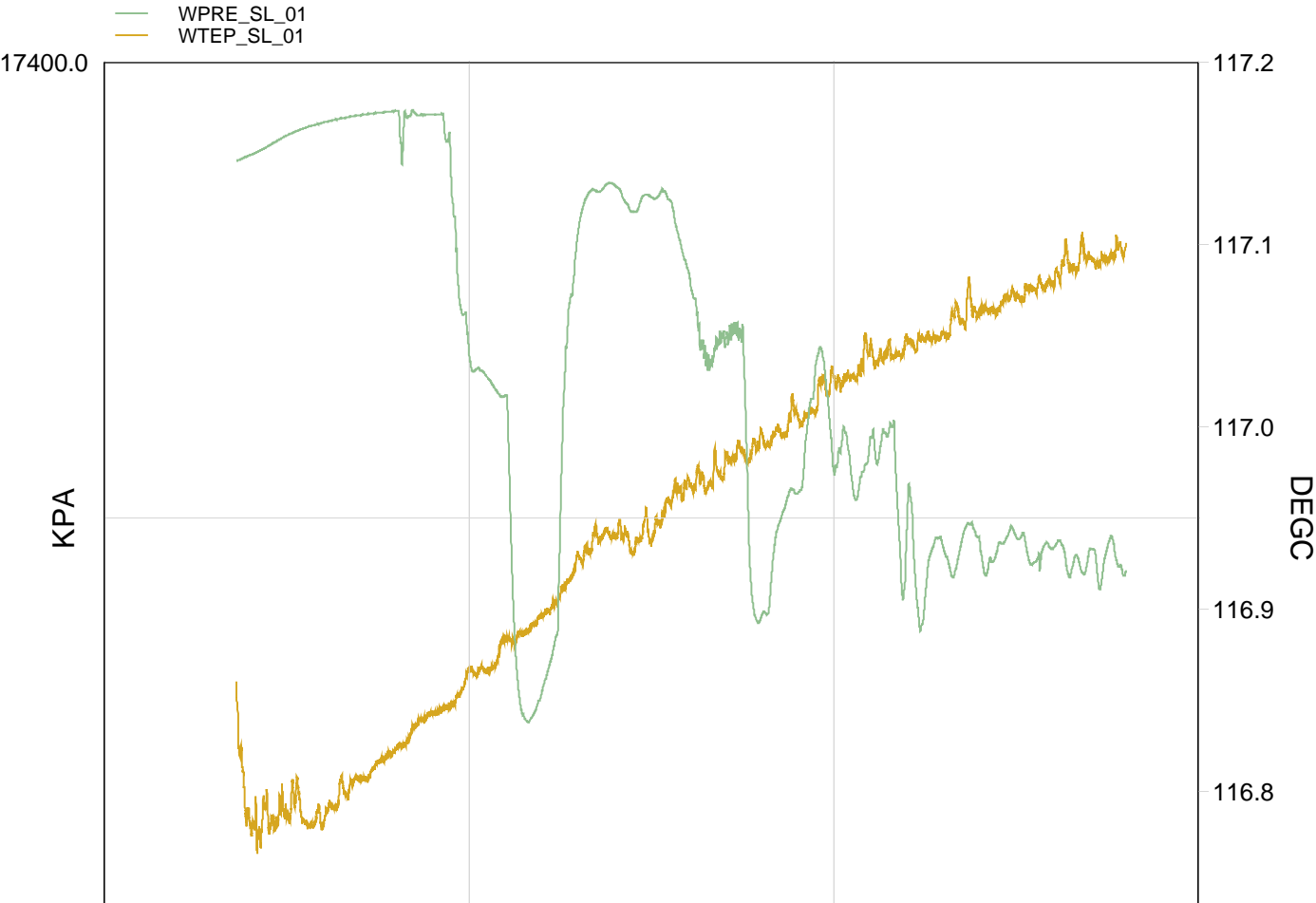
Output DLIS Files

DEFAULT FCS_DEFT_GMS_RST_030PUP FN:26 PRODUCER 16-Dec-2009 17:12



Station Log @ 2751m MDKB
Well flowing record

MAXIS Field Log



17200.0

59.0

60.0

61.0

62.0

116.7

T (hr)

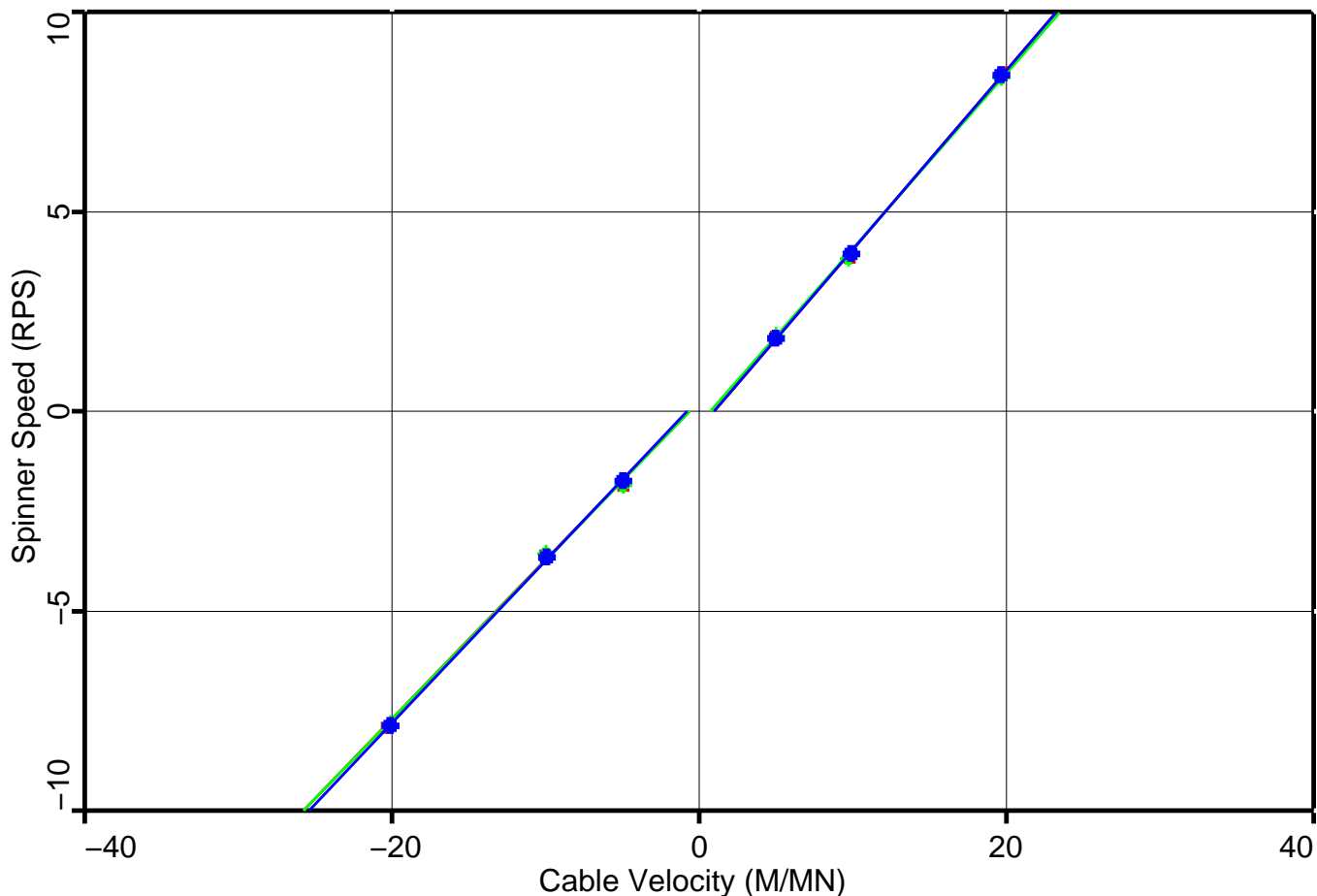
Schlumberger

Spinner Calibration

MAXIS Field Log

Production Logging Quicklook Spinner Calibration

	Zone Depth (M)	Fluid Vel. (M/MN)	Positive Spinner			Negative Spinner		
			Slope (RSMM)	Intercept (M/MN)	Correl.	Slope (RSMM)	Intercept (M/MN)	Correl.
■	Zone 1 2220.0 – 2202.0 :	–0.1	0.4492	1	1	0.3986	–0.6	0.999
◆	Zone 2 2250.0 – 2225.0 :	–0	0.4409	0.8	1	0.3979	–0.6	0.999
●	Zone 3 2290.0 – 2275.0 :	0	0.4494	1	1	0.4066	–0.8	1



Company: Esso Australia Pty Ltd.

Well: A-7

Input DLIS Files

FCS_ILS_DEFT_GMS_041LUP FN:40 17-Dec-2009 07:30 2756.5 M 2012.0 M

Output DLIS Files

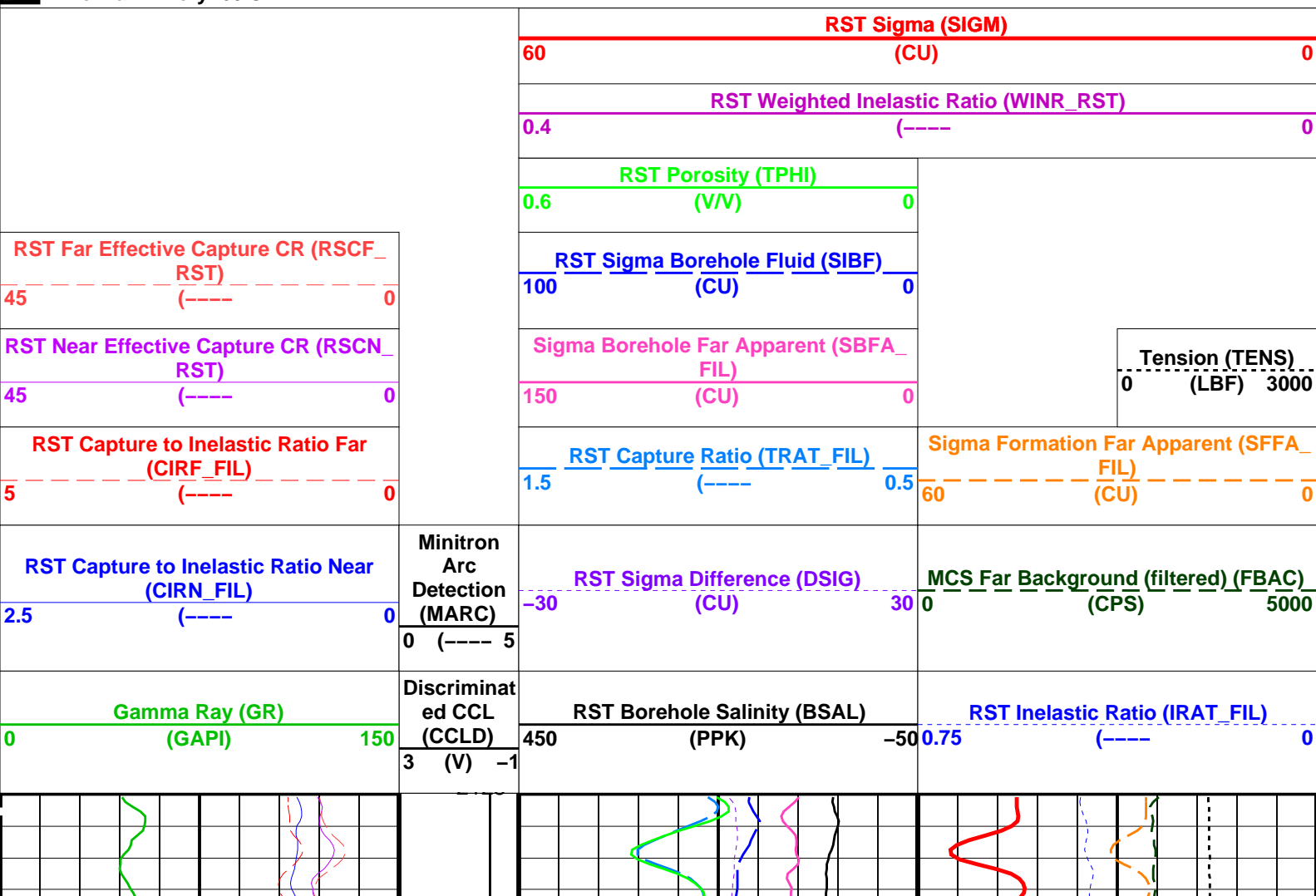
DEFAULT	FCS_ILS_DEFT_GMS_120PUP	FN:132	PRODUCER	17-Dec-2009 08:59	2751.0 M	2124.9 M
CUSTOMER_	FCS_ILS_DEFT_GMS_120PUC	FN:133	CUSTOMER	17-Dec-2009 08:59	2751.0 M	2124.9 M

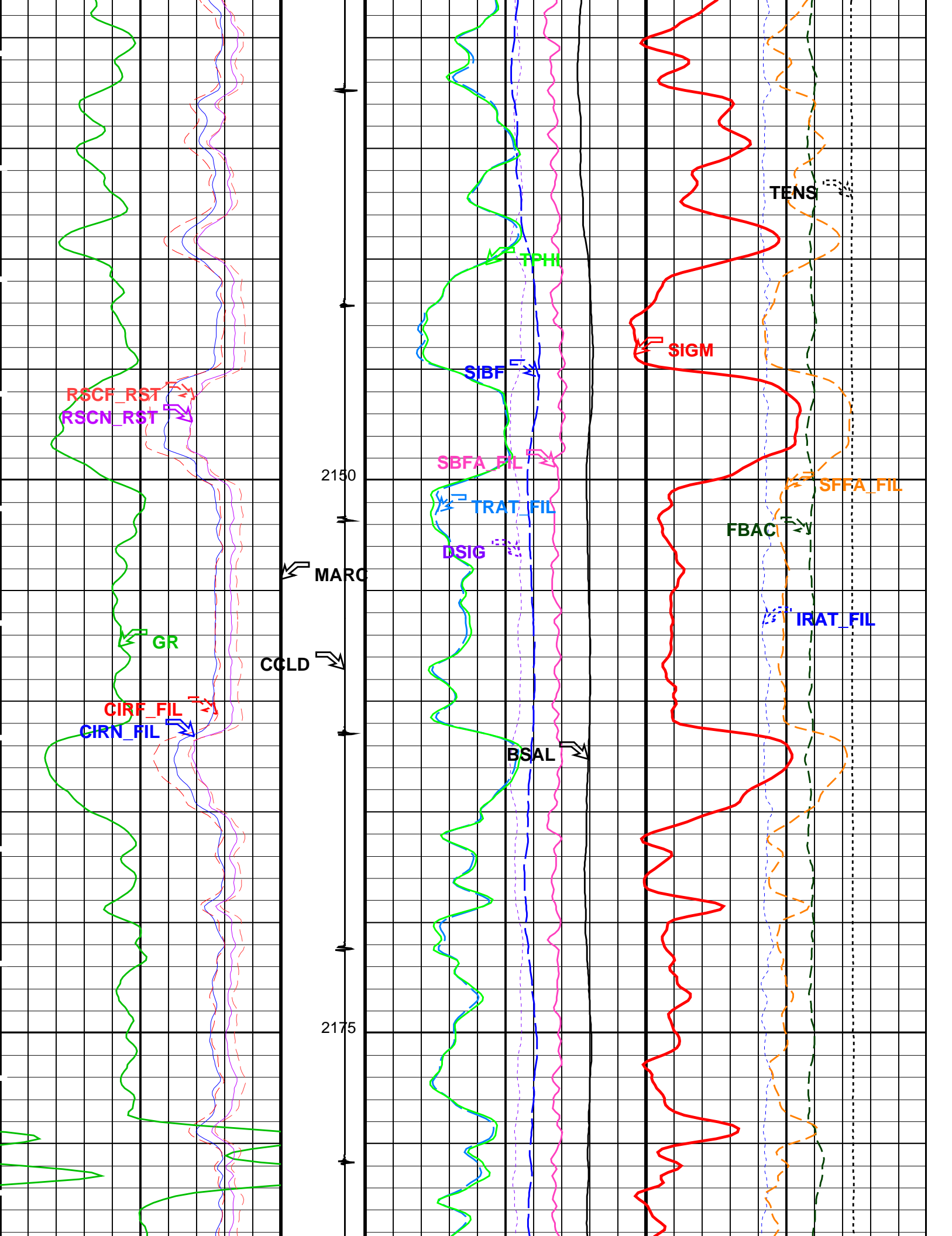
OP System Version: 17C0-154

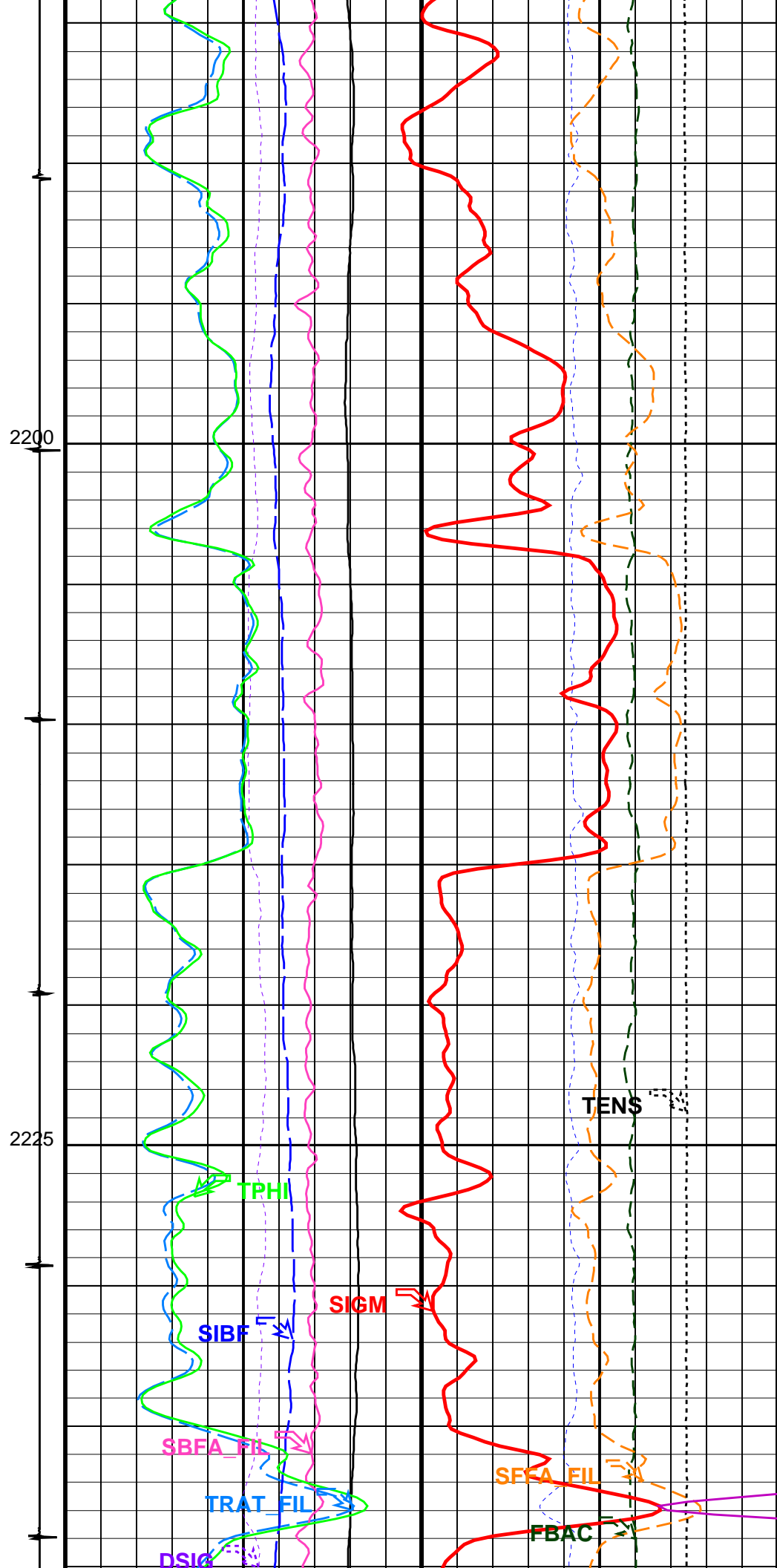
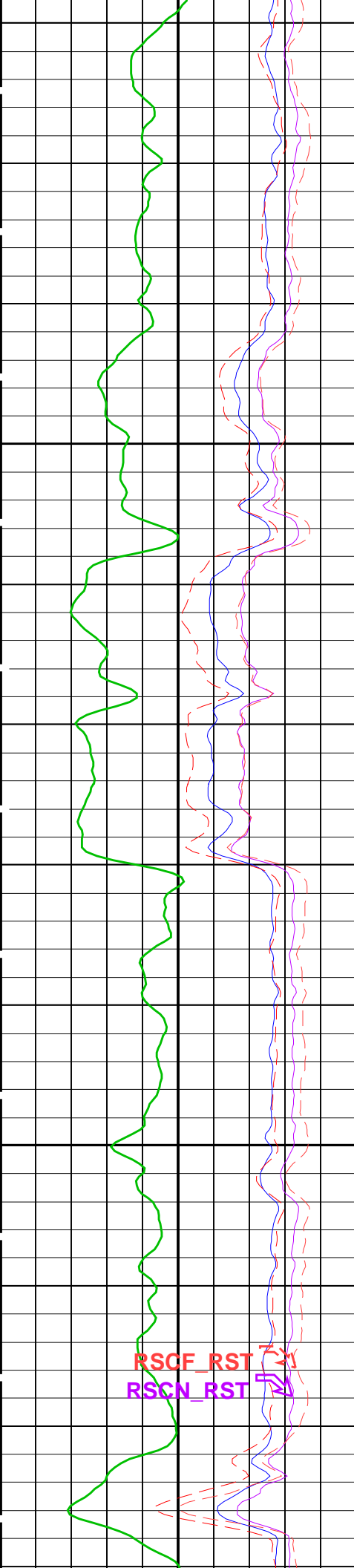
PFCS-A	17C0-154	PILS-A	17C0-154
DEFT-C2	17C0-154	PGMC-A/B	17C0-154
RST-C	17C0-154	PSPT-A/B	17C0-154

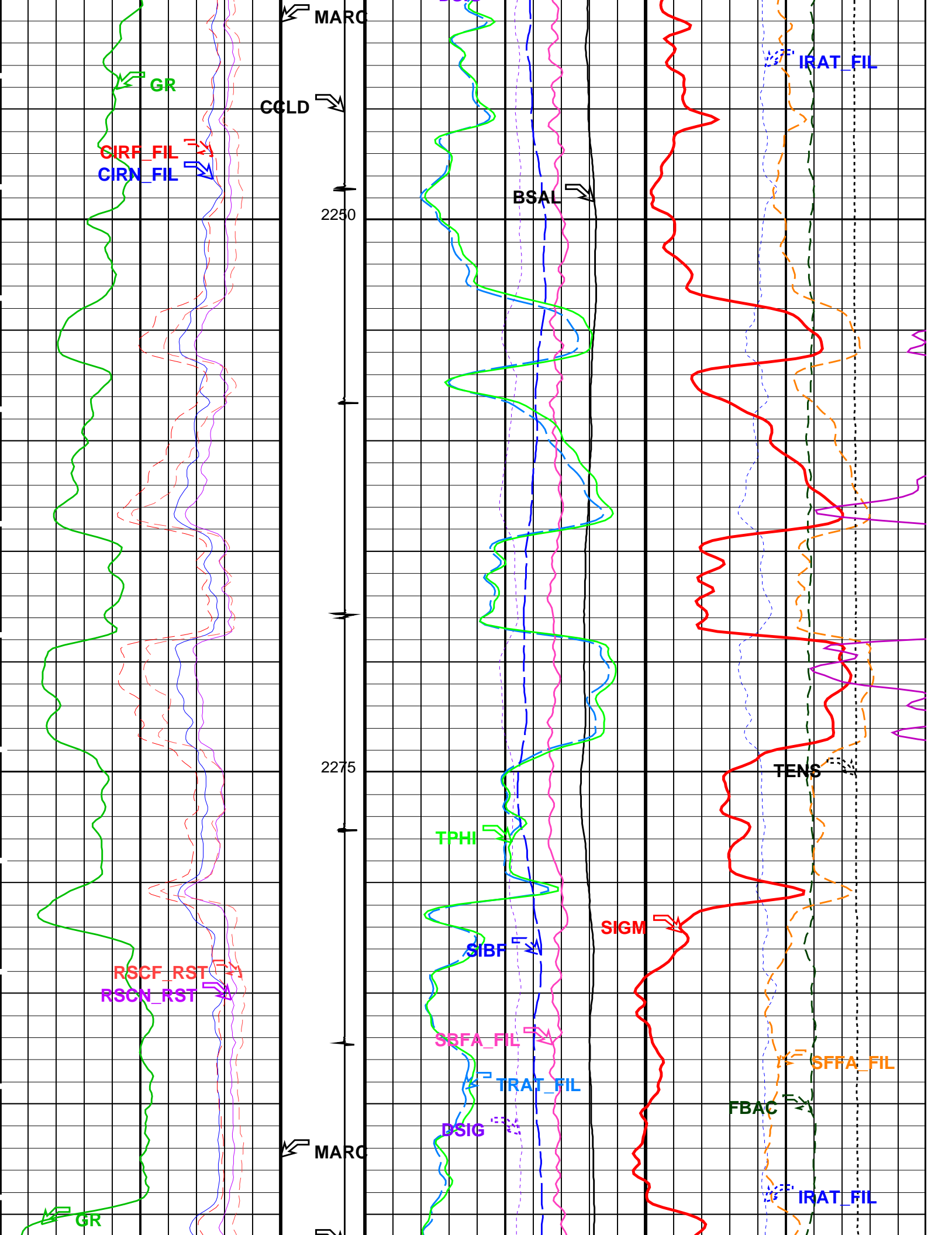
PIP SUMMARY

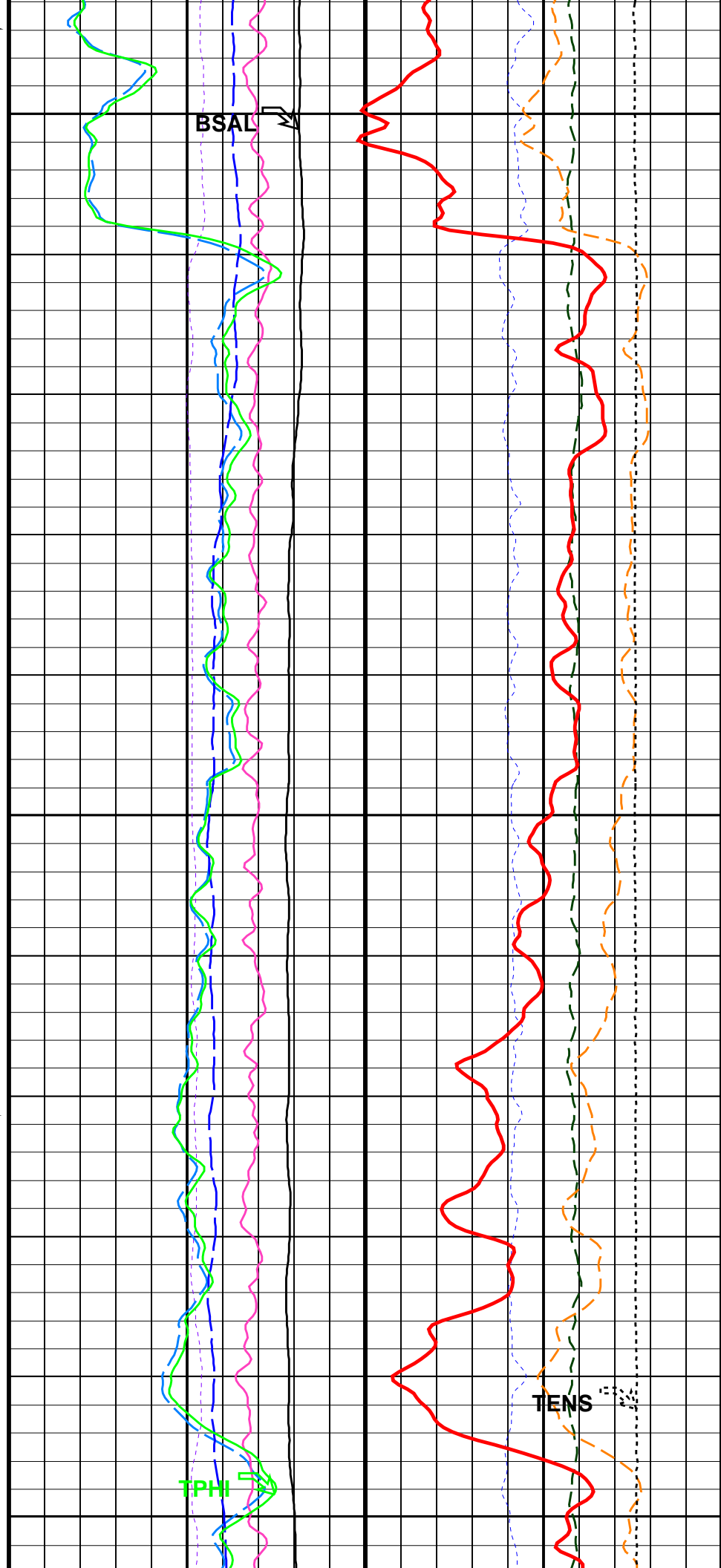
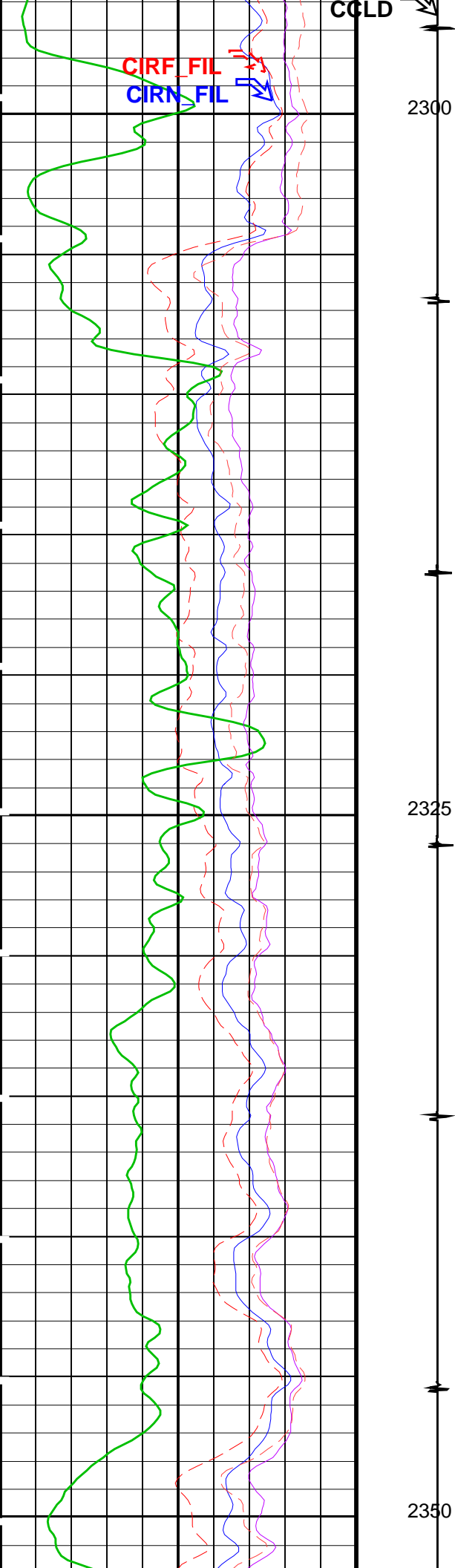
Time Mark Every 60 S

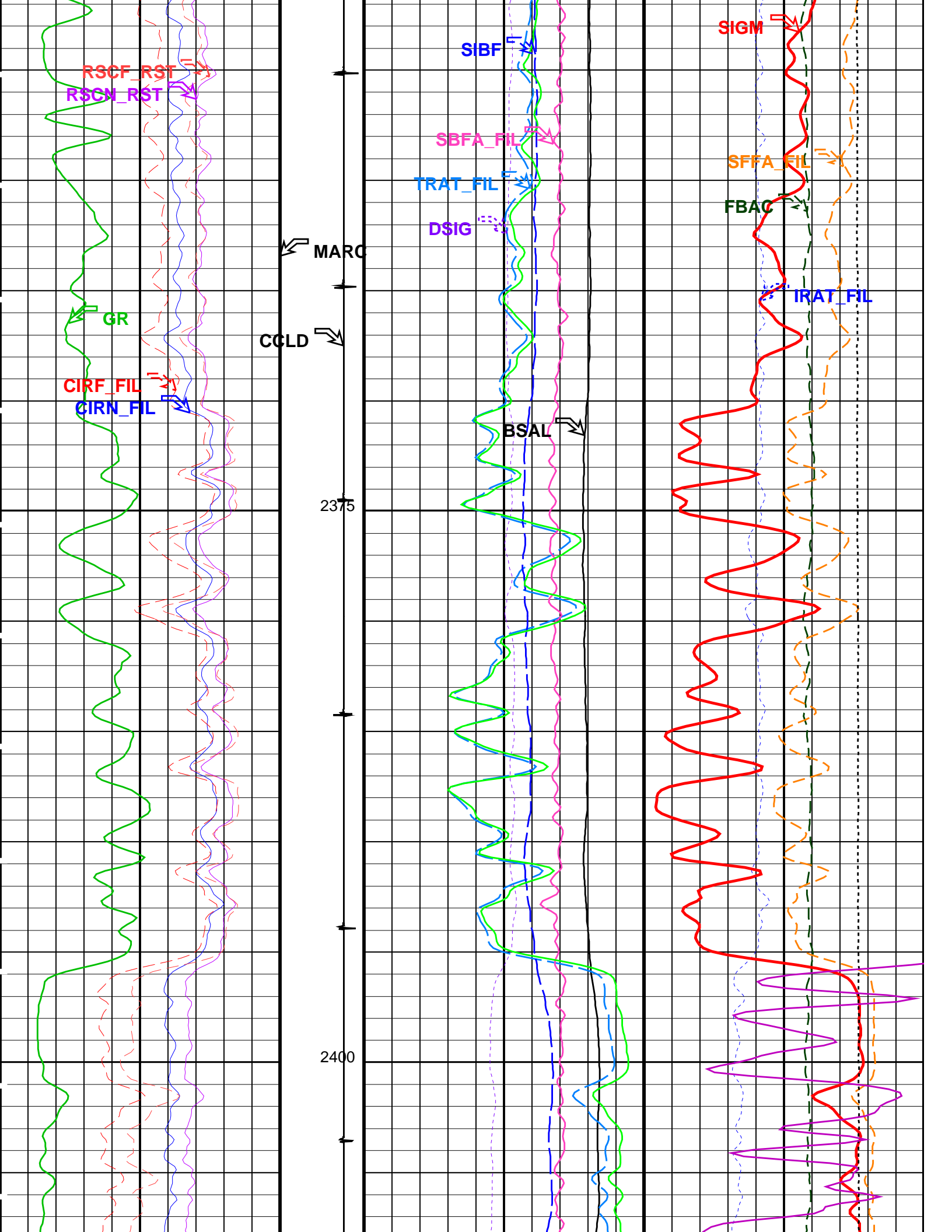


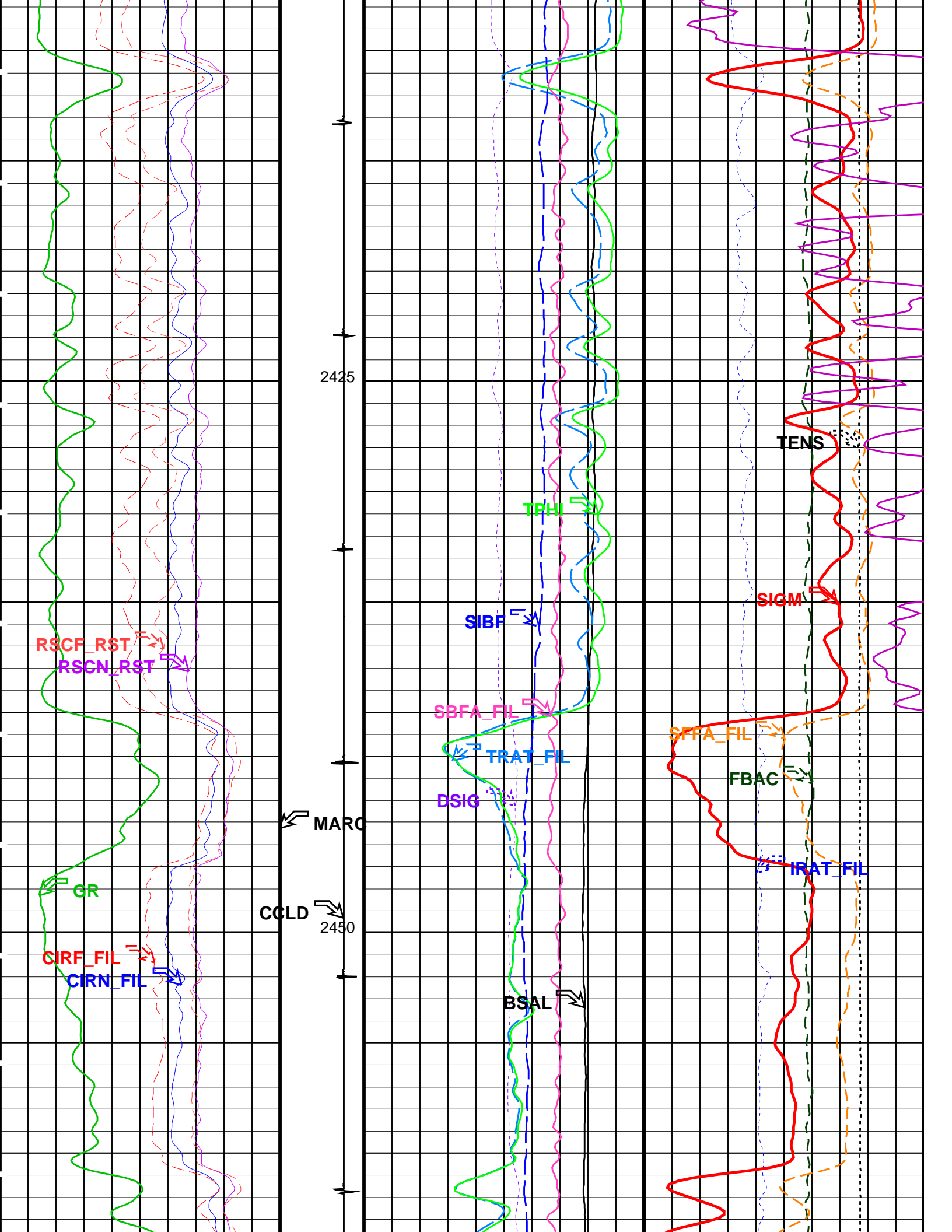


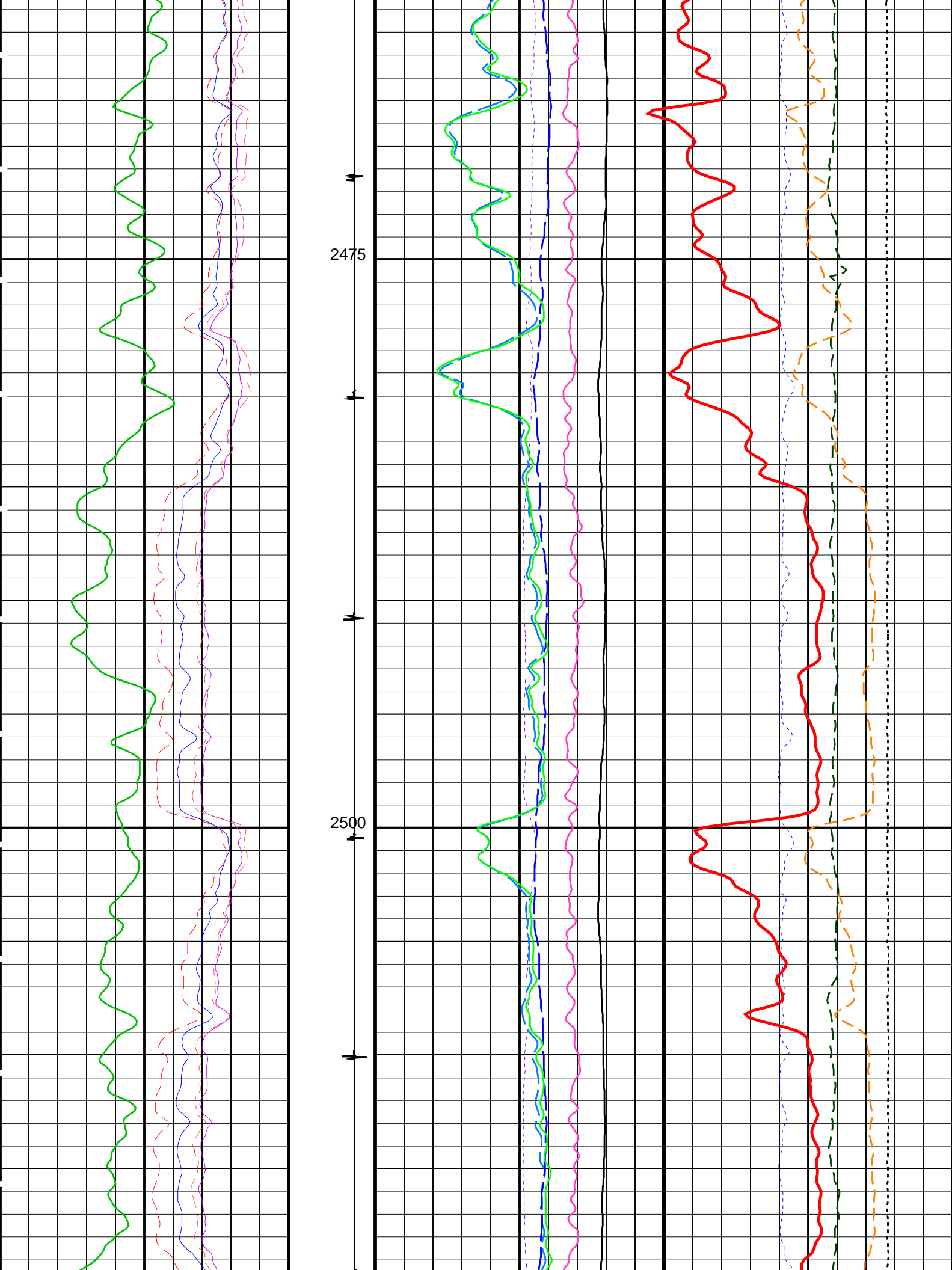


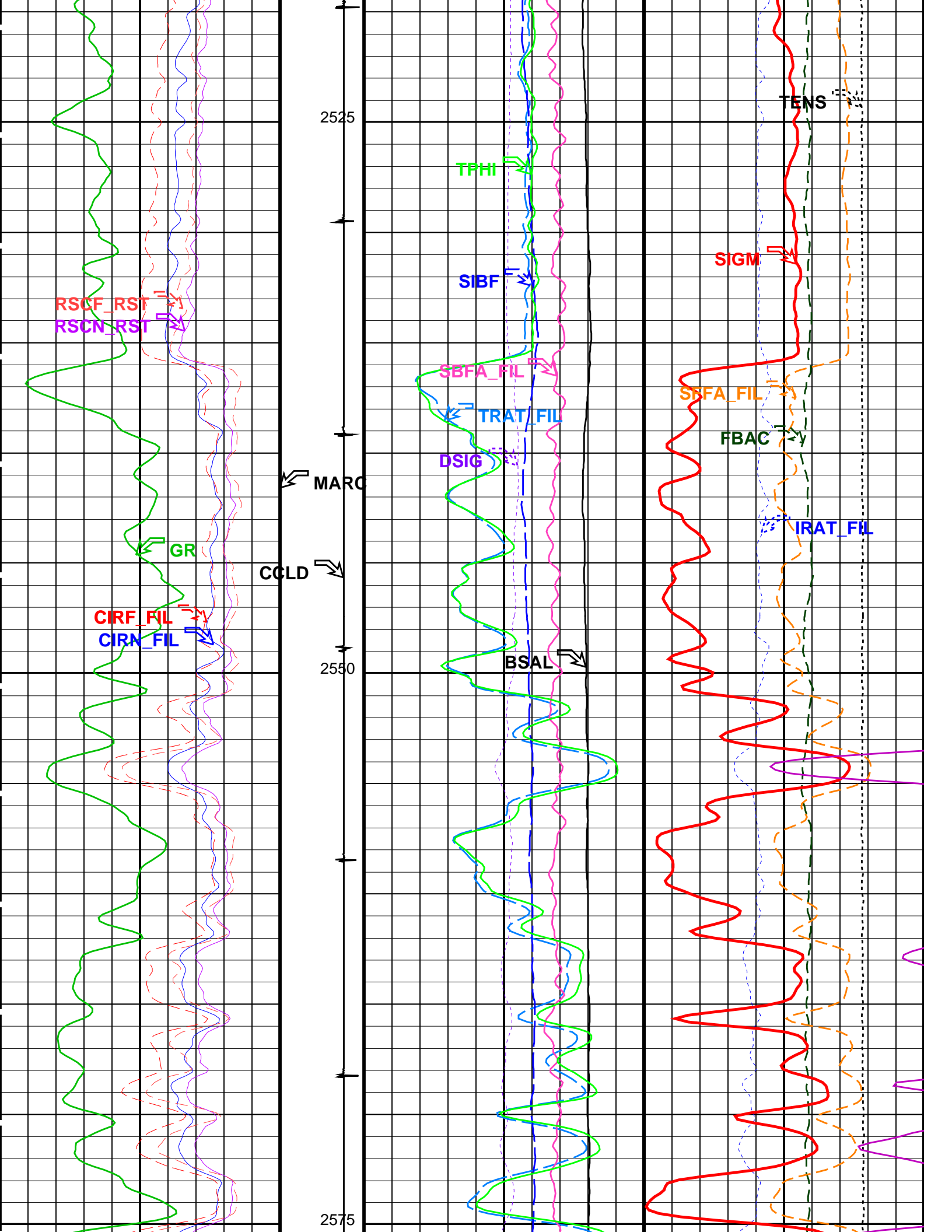


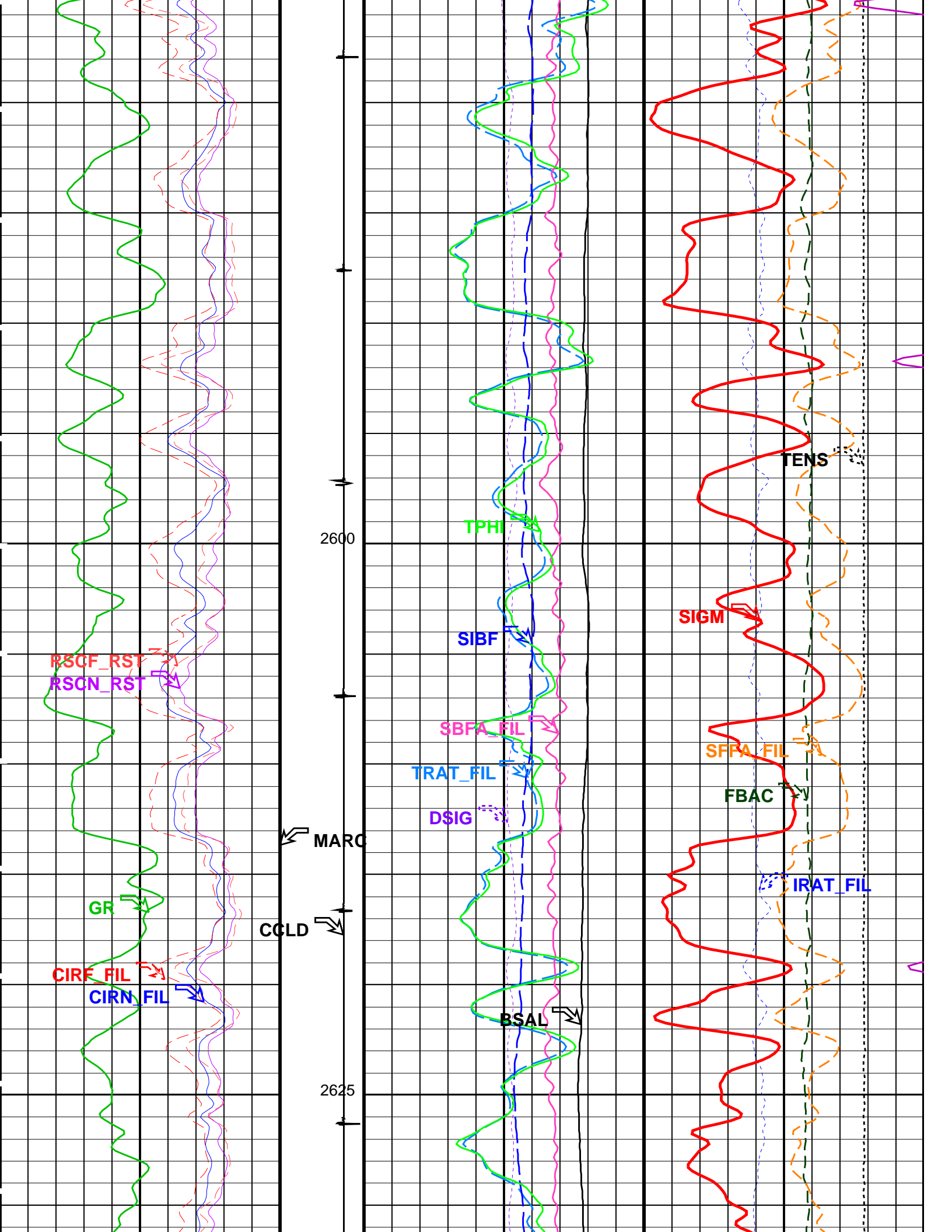


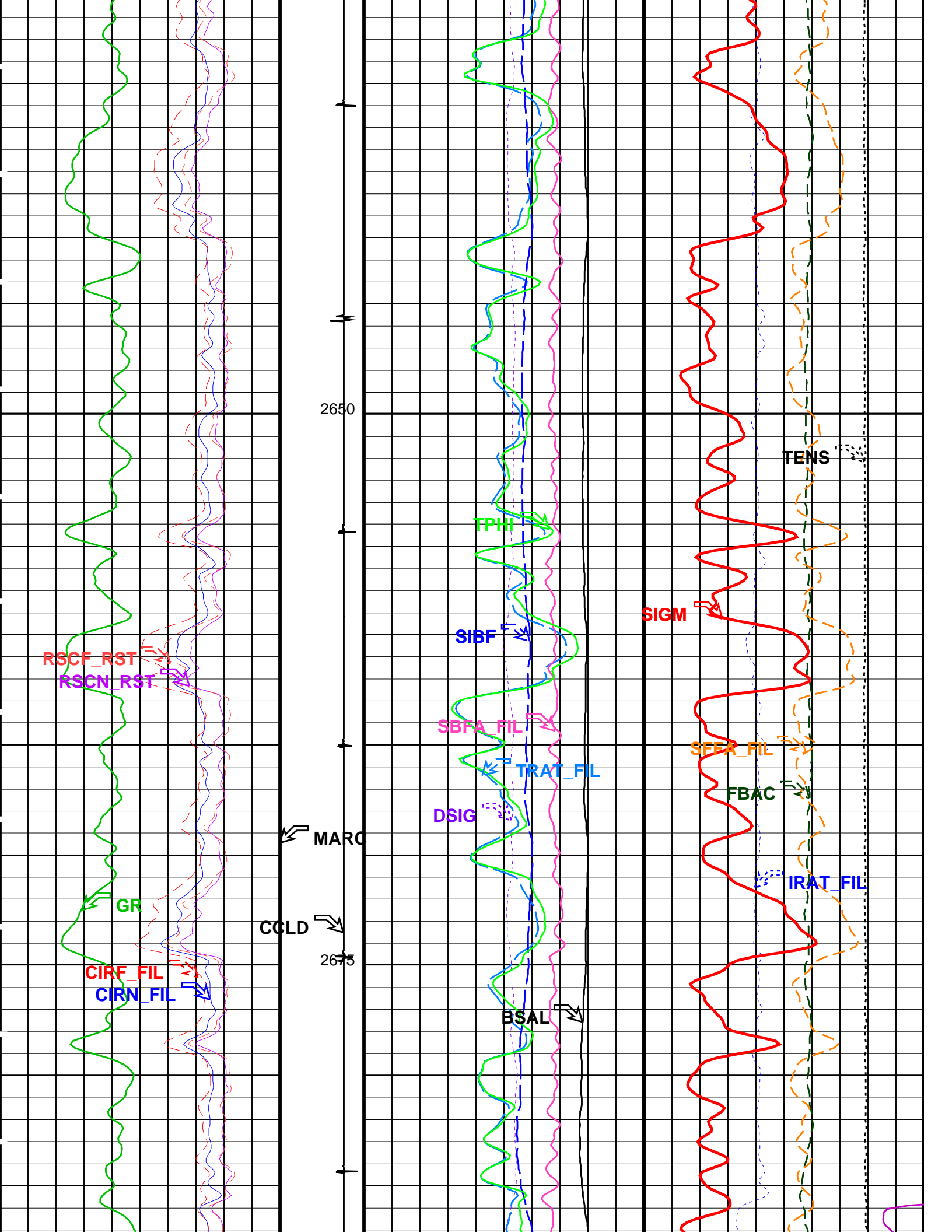


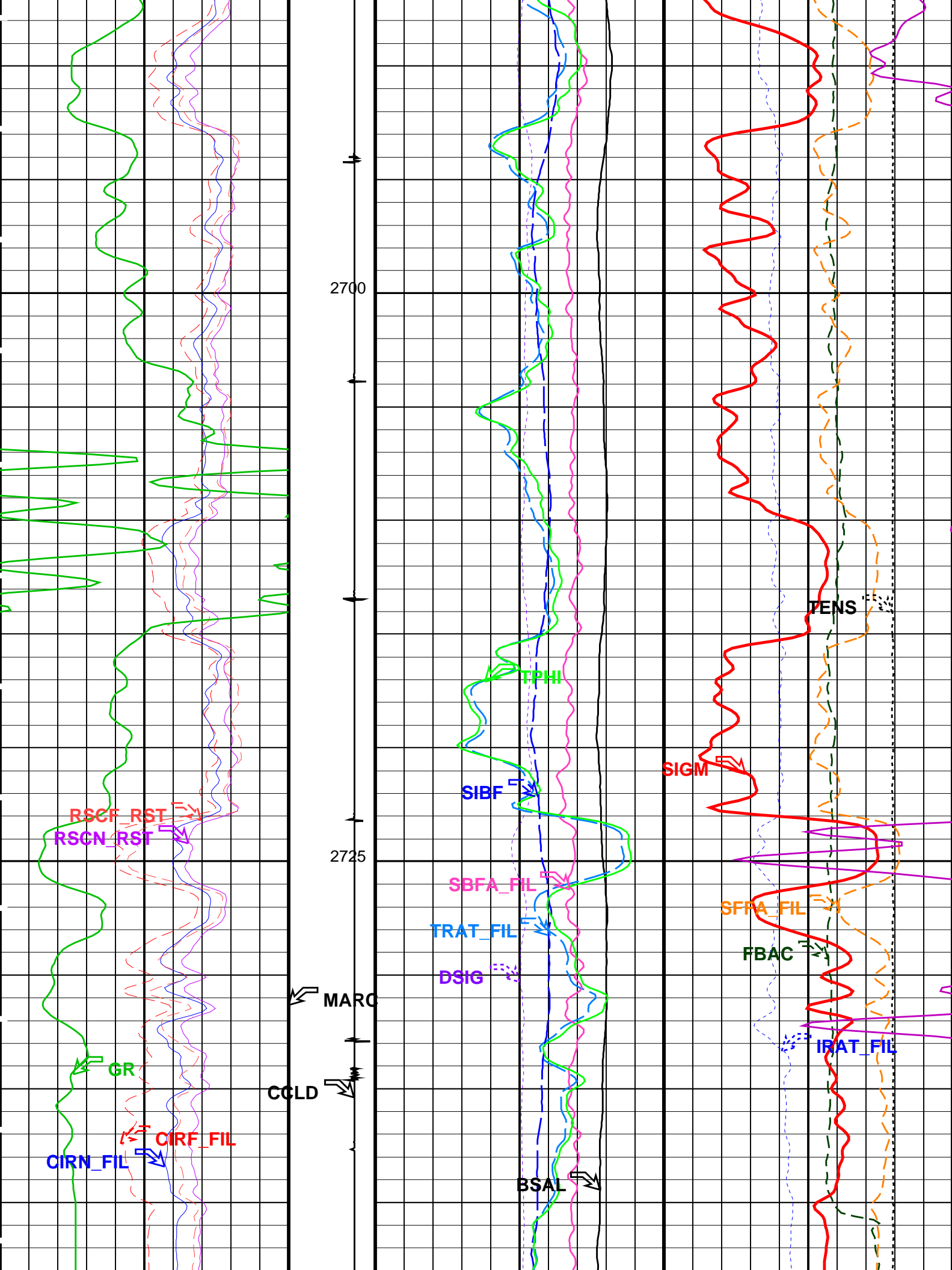


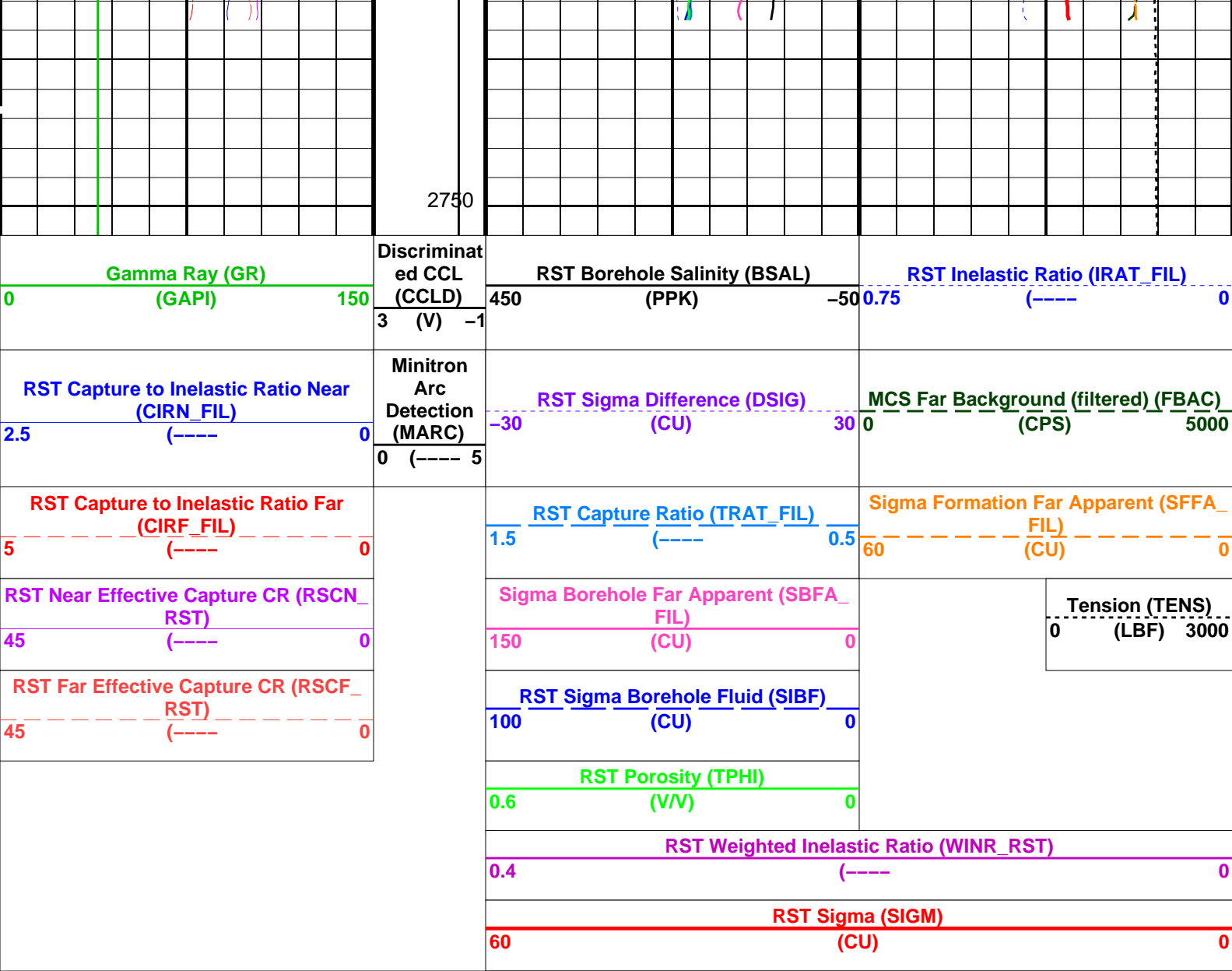












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No
BHS	Borehole Status	CASED
BSALOPT	RST Borehole Salinity Option	Unknown
BSFL	RST Borehole Salinity Filter Length	51
DFPC	RST Depth Filter Processing Constant	One
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48
NORM_SIGM_RST	RST Normalized Sigma	30 CU
RGAI	Near/Far Gain Calibration Ratio	1
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma
PSPT-A/B: Production Services Logging Platform		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
System and Miscellaneous		
BS	Bit Size	8.500 IN
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	7.000 IN
CWEI	Casing Weight	34.60 LB/F
DO	Depth Offset for Playback	-2.1 M
PP	Playback Processing	NORMAL

OP System Version: 17C0-154

PFCs-A	17C0-154	PILS-A	17C0-154
DEFT-C2	17C0-154	PGMC-A/B	17C0-154
RST-C	17C0-154	PSPT-A/B	17C0-154

Input DLIS Files

FCS_ILS_DEFT_GMS_041LUP	FN:40	17-Dec-2009 07:30	2756.5 M	2012.0 M
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Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_120PUP	FN:132	PRODUCER	17-Dec-2009 08:59
CUSTOMER_	FCS_ILS_DEFT_GMS_120PUC	FN:133	CUSTOMER	17-Dec-2009 08:59

Schlumberger

**PLT Static down log @ 1970 ft/hr
2050 – 2751m MDKB**

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-7

Input DLIS Files

Flip_FCS_ILS_DEFT_018LUP	FN:1	17-Dec-2009 07:29	2756.5 M	2031.3 M
--------------------------	------	-------------------	----------	----------

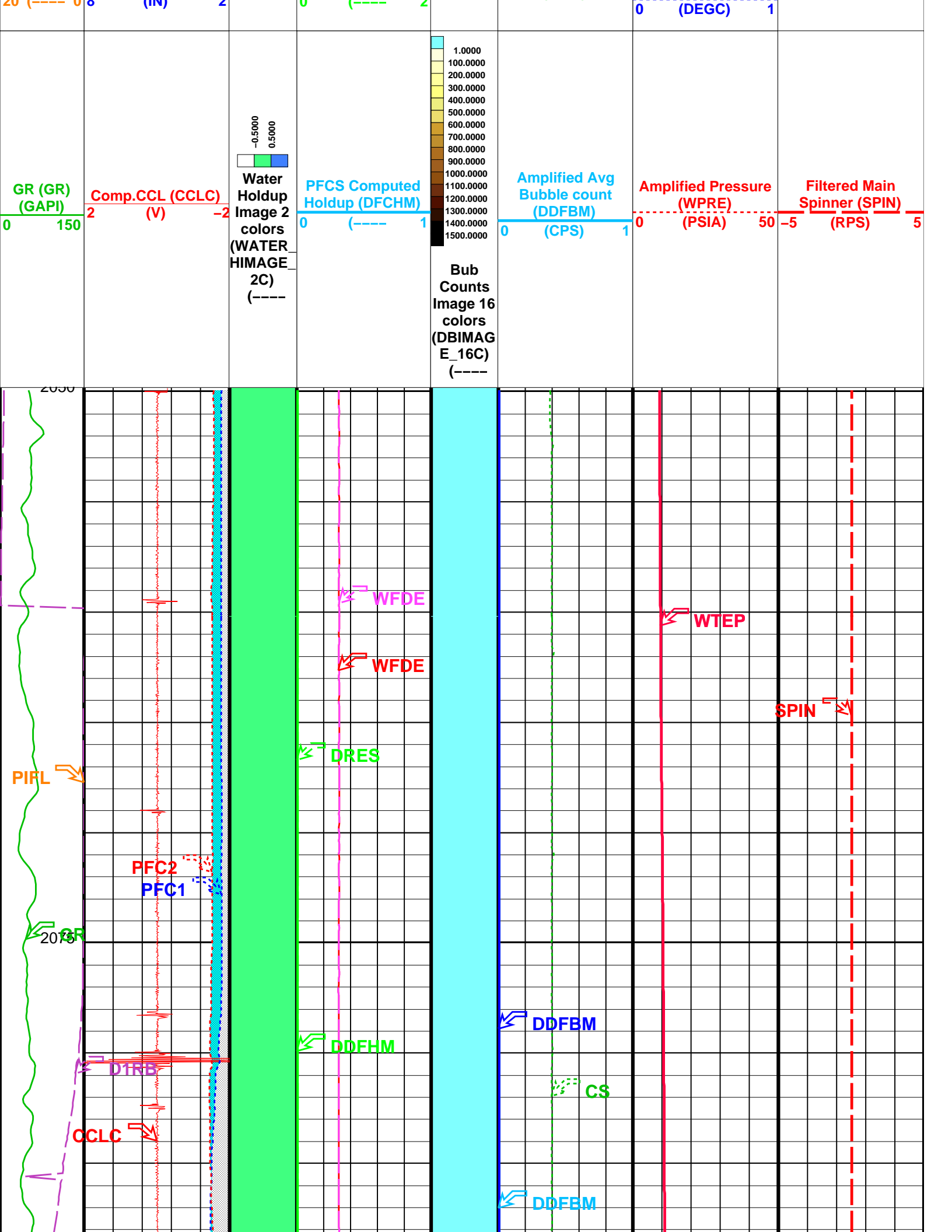
Output DLIS Files

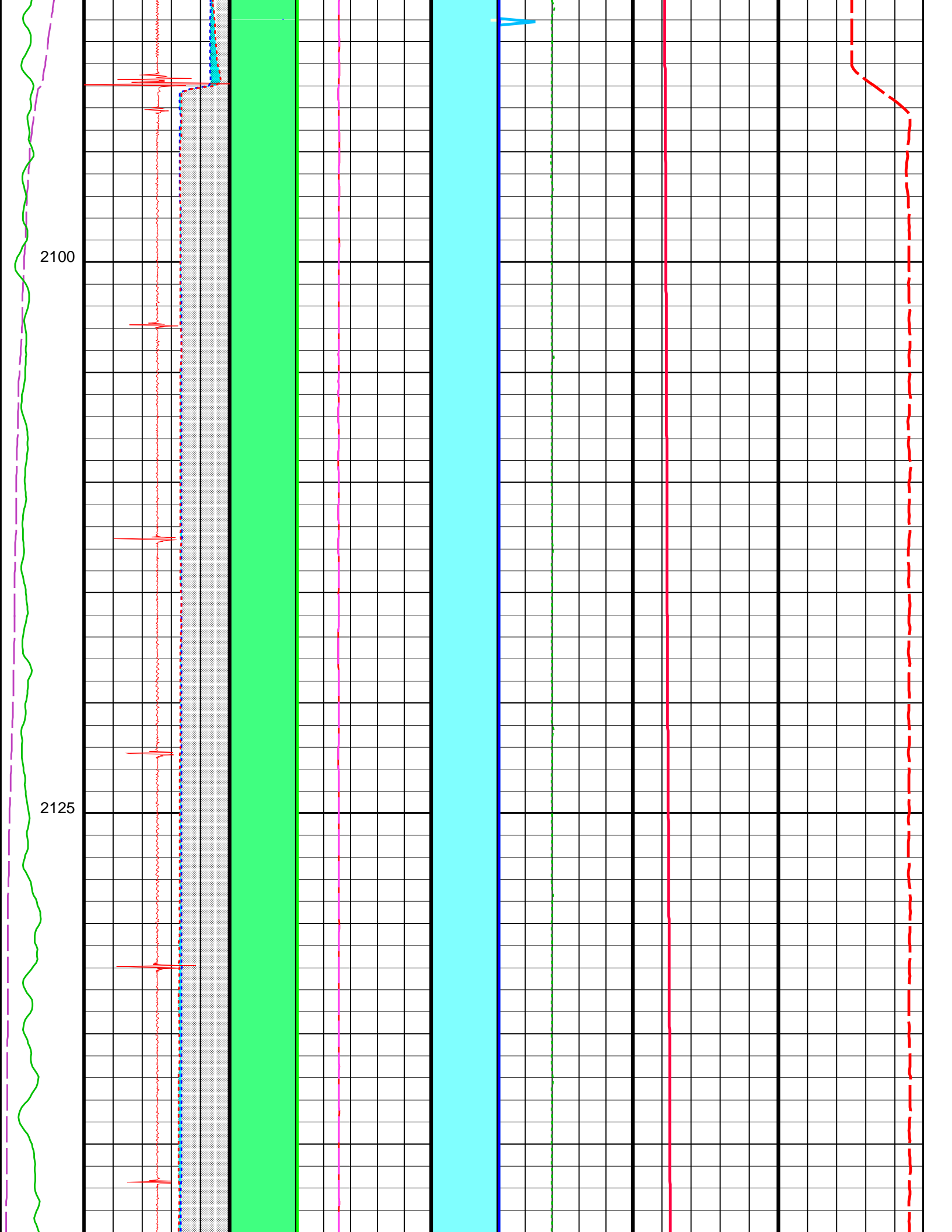
DEFAULT	FCS_ILS_DEFT_GMS_122PUP	FN:136	PRODUCER	17-Dec-2009 10:27	2751.0 M	2049.8 M
CUSTOMER_	FCS_ILS_DEFT_GMS_122PUC	FN:137	CUSTOMER	17-Dec-2009 10:27	2751.0 M	2049.8 M

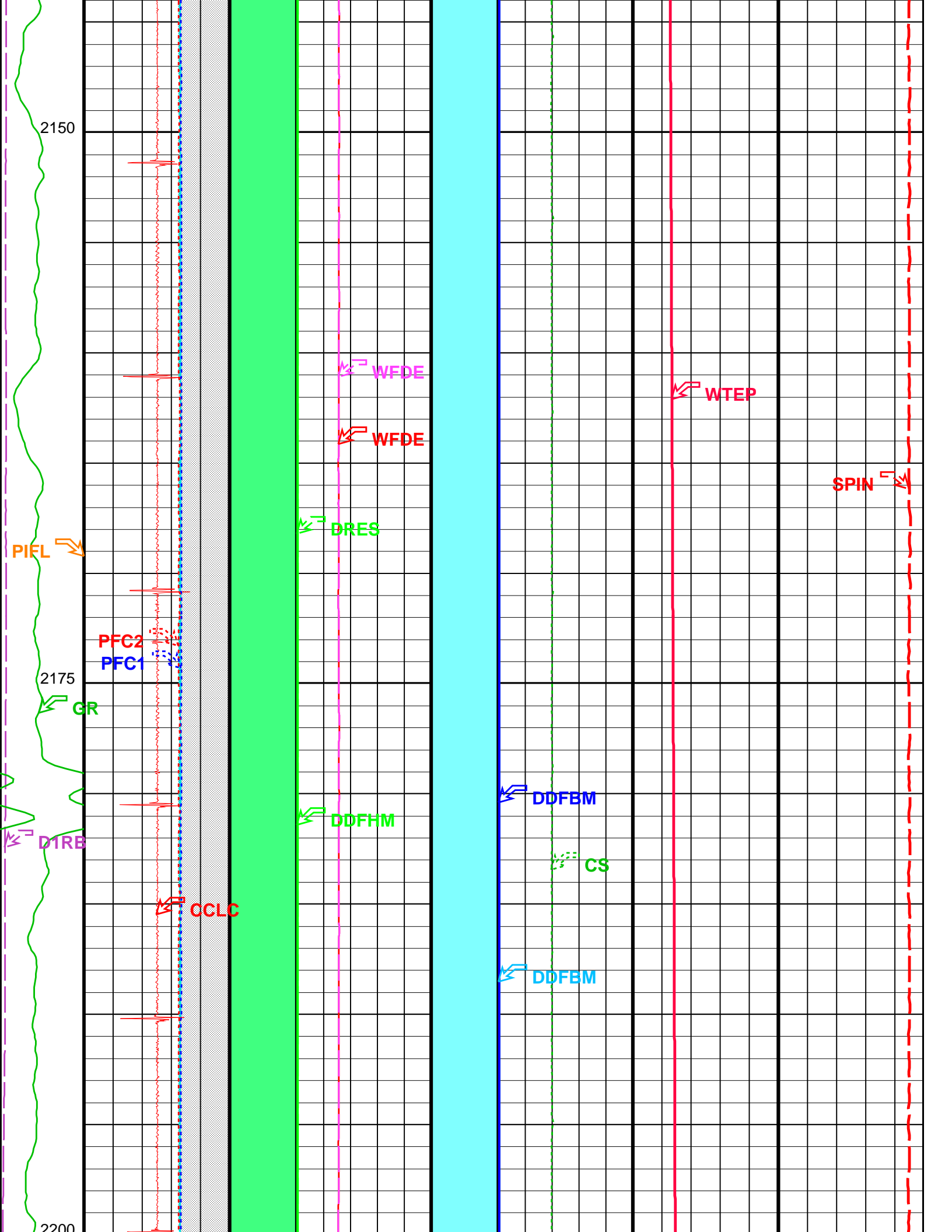
OP System Version: 17C0-154

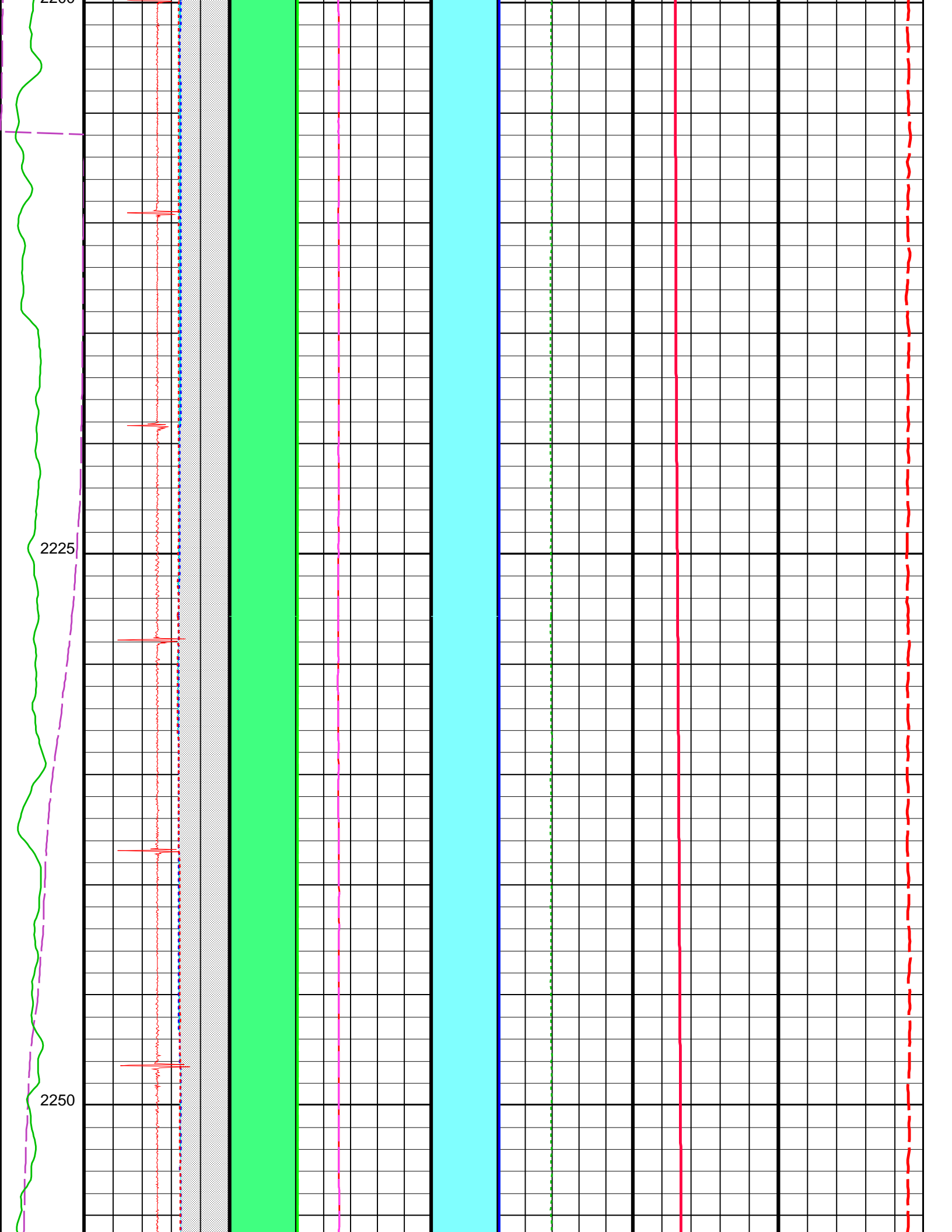
PFCs-A	17C0-154	PILS-A	17C0-154
DEFT-C2	17C0-154	PGMC-A/B	17C0-154
RST-C	17C0-154	PSPT-A/B	17C0-154

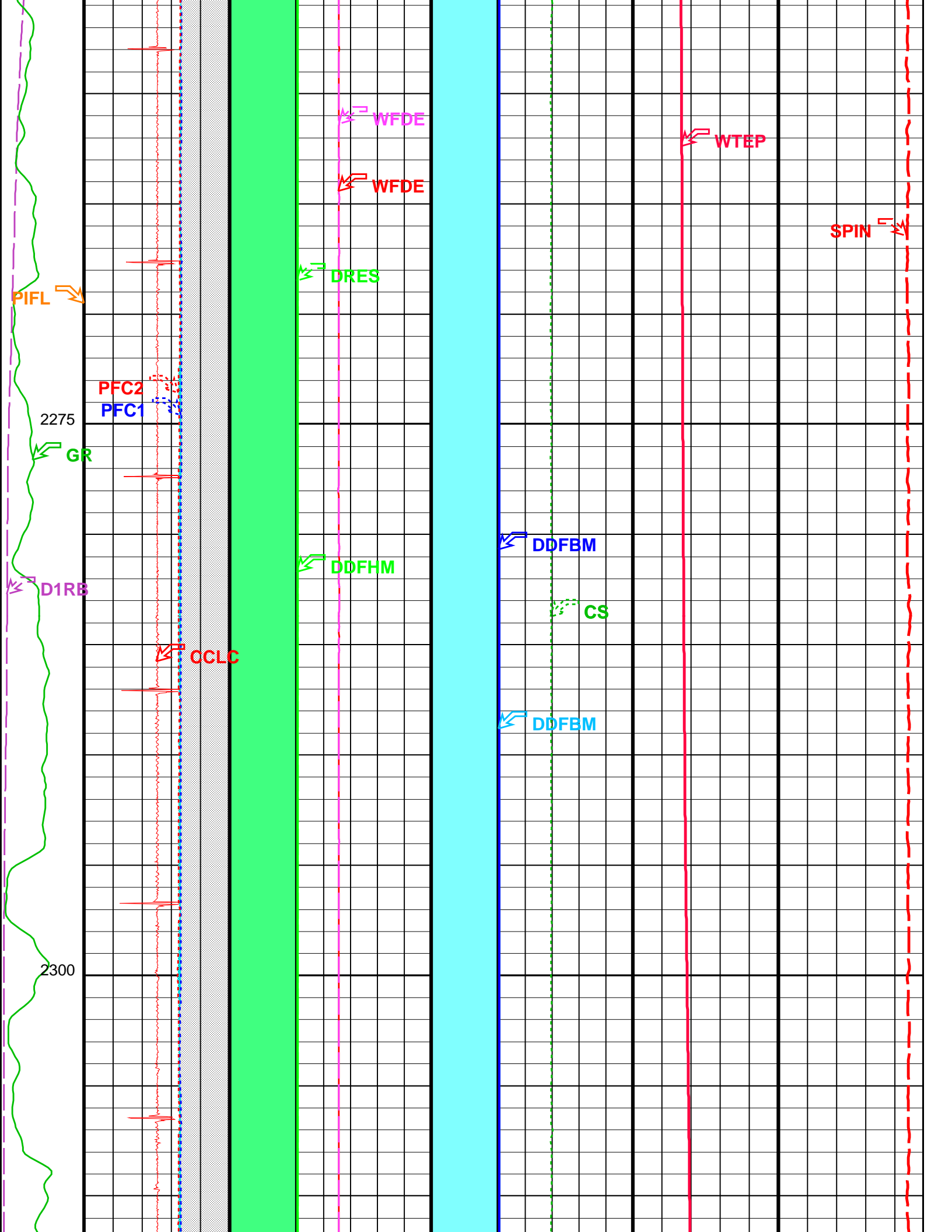
	Pipe Ovalisation Between PFC1 and PFC2		Well Fluid Density (WFDE) 0 (G/C3) 2		
	Well Diameter From PFC2 to PFCs_T1		Well Fluid Density (WFDE) 0 (G/C3) 2		
	Well Diameter From PFC1 to PFCs_T1		PFCs Fluid Resistivity (DRES) 0 (OHMM) 360	Filtered Bubble Count (FBM) 0 (CPS) 500	
Probe1 RB (D1RB) (DEG) 0 360	PFCs Caliper Y (PFC2) 8 (IN) 2		Filtered Water Holdup (FHM) 0 (----) 1	Avg BUB count (DDFBM) 0 (CPS) 100	Well Temperature (WTEP) 185 (DEGC) 220
Perfo Zone (PIFL) 20 (IN) 0	PFCs Caliper X (PFC1) 8 (IN) 2		Avg Holdup (DDFHM) 0 (----) 2	Cable Speed (CS) 0 (F/HR) 5000	Amplified Temperature (WTEP) 0 (DEGC) 220

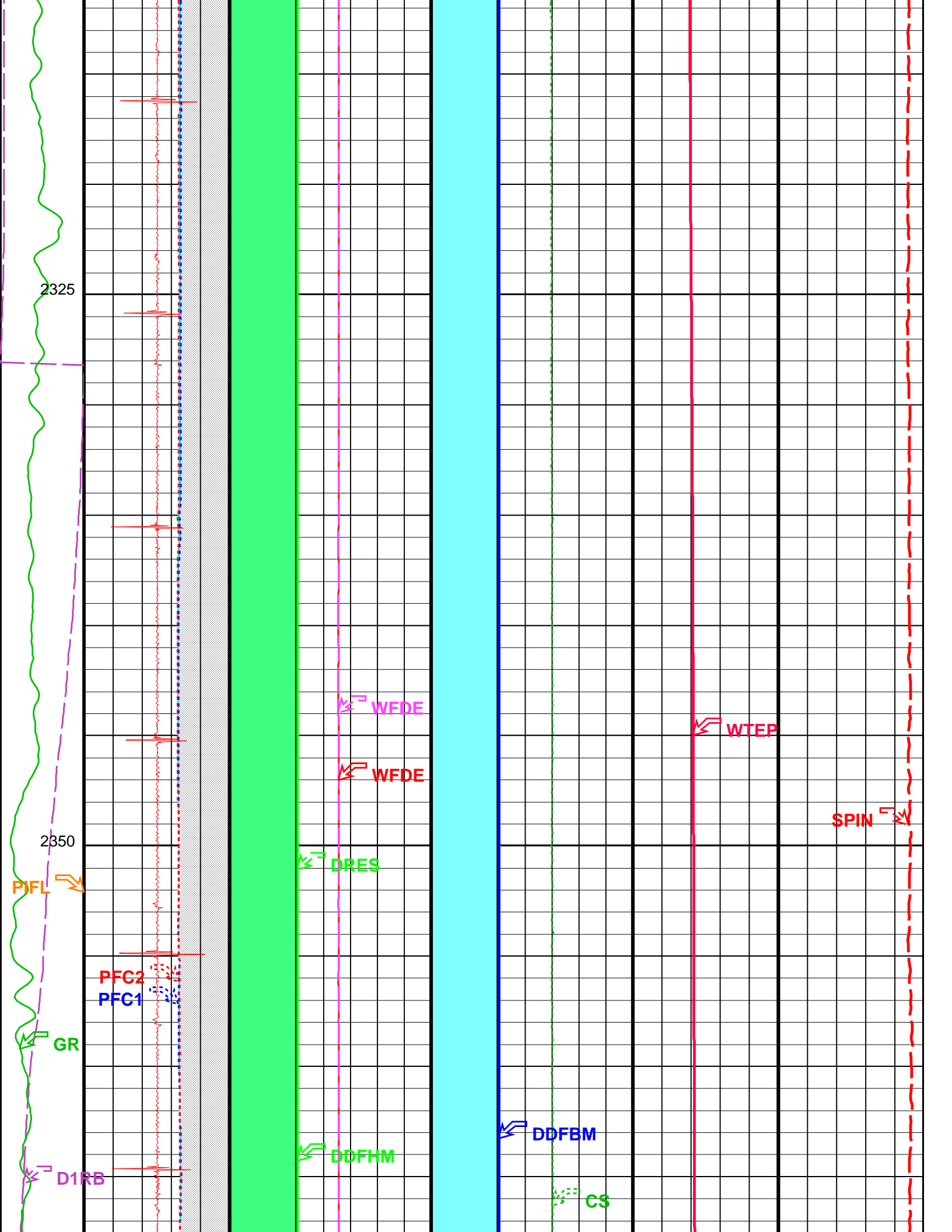


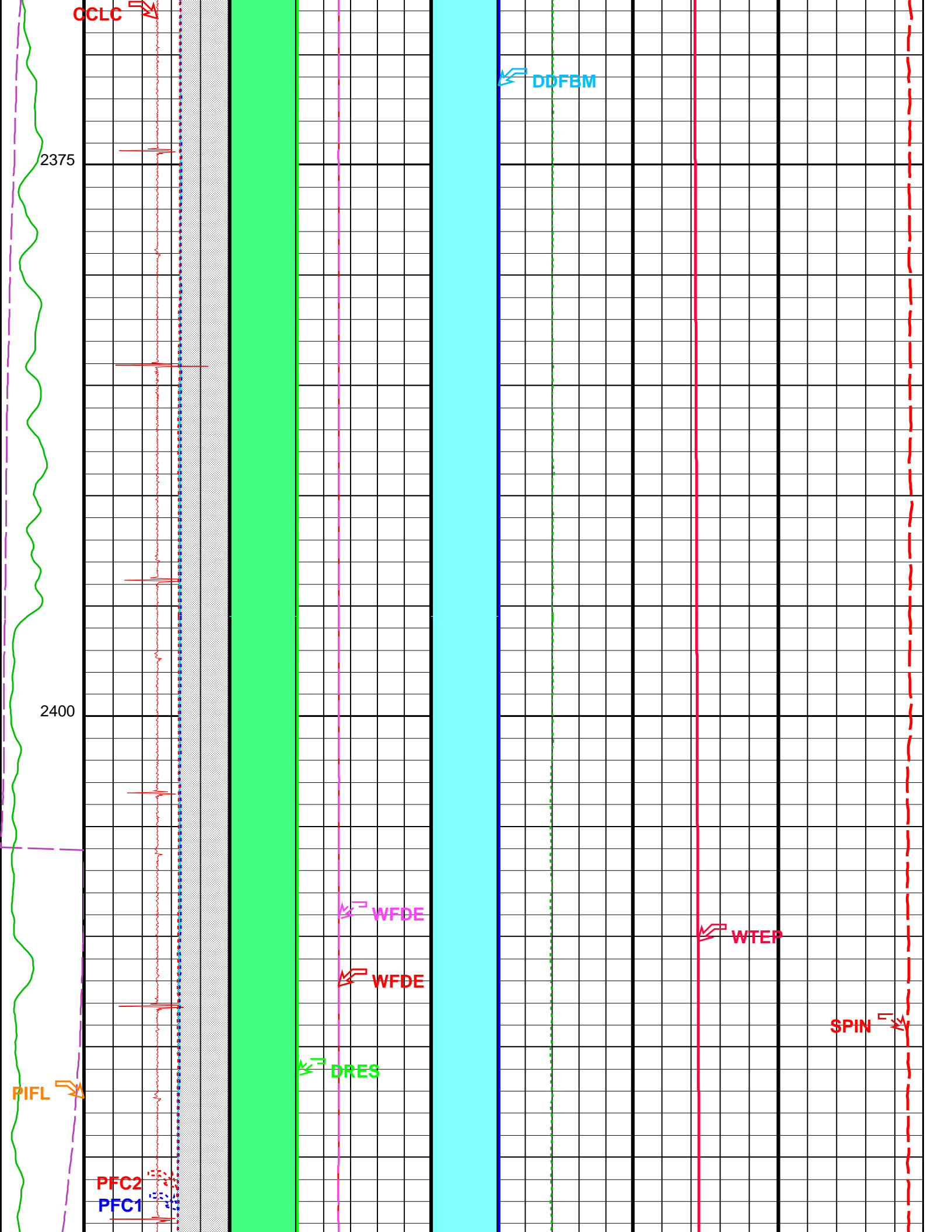


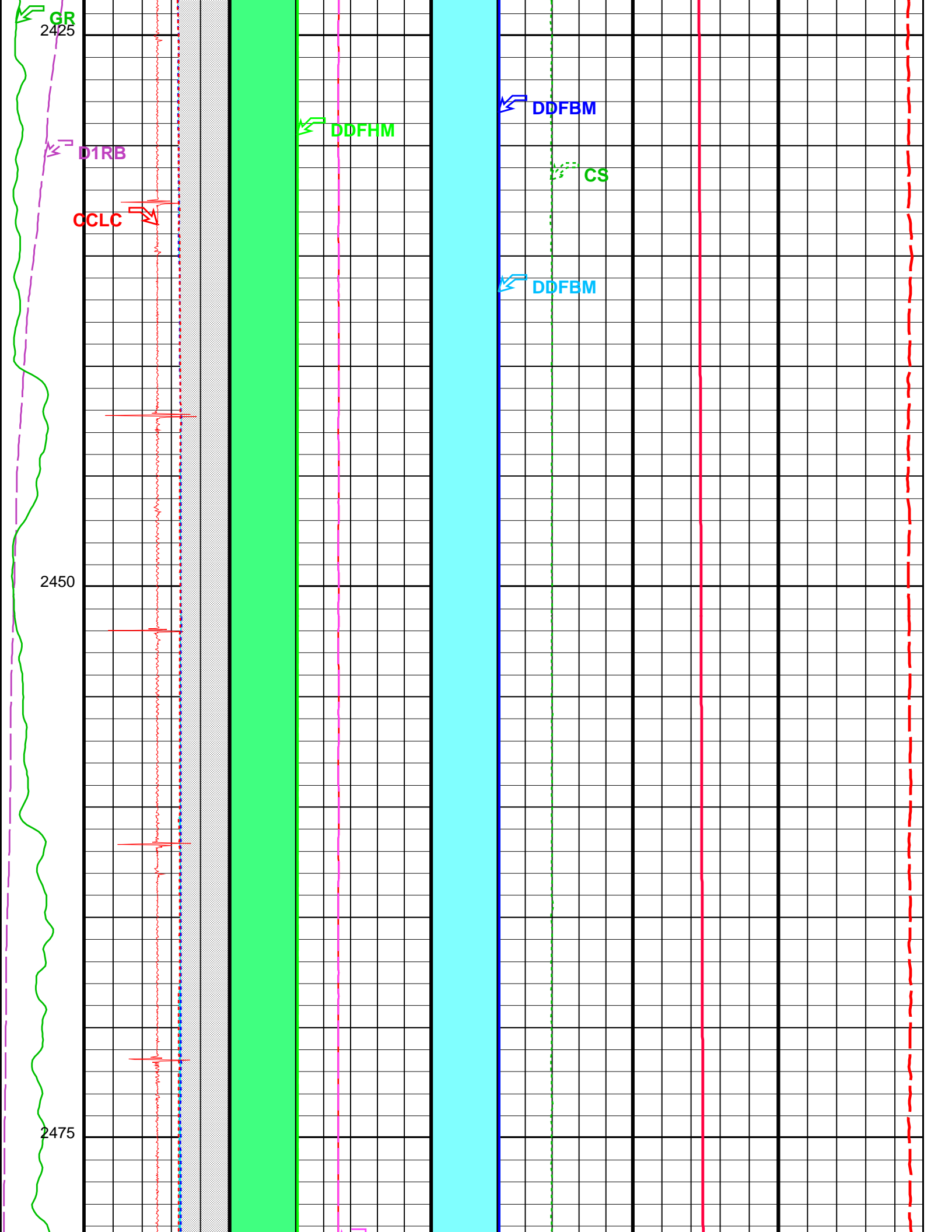


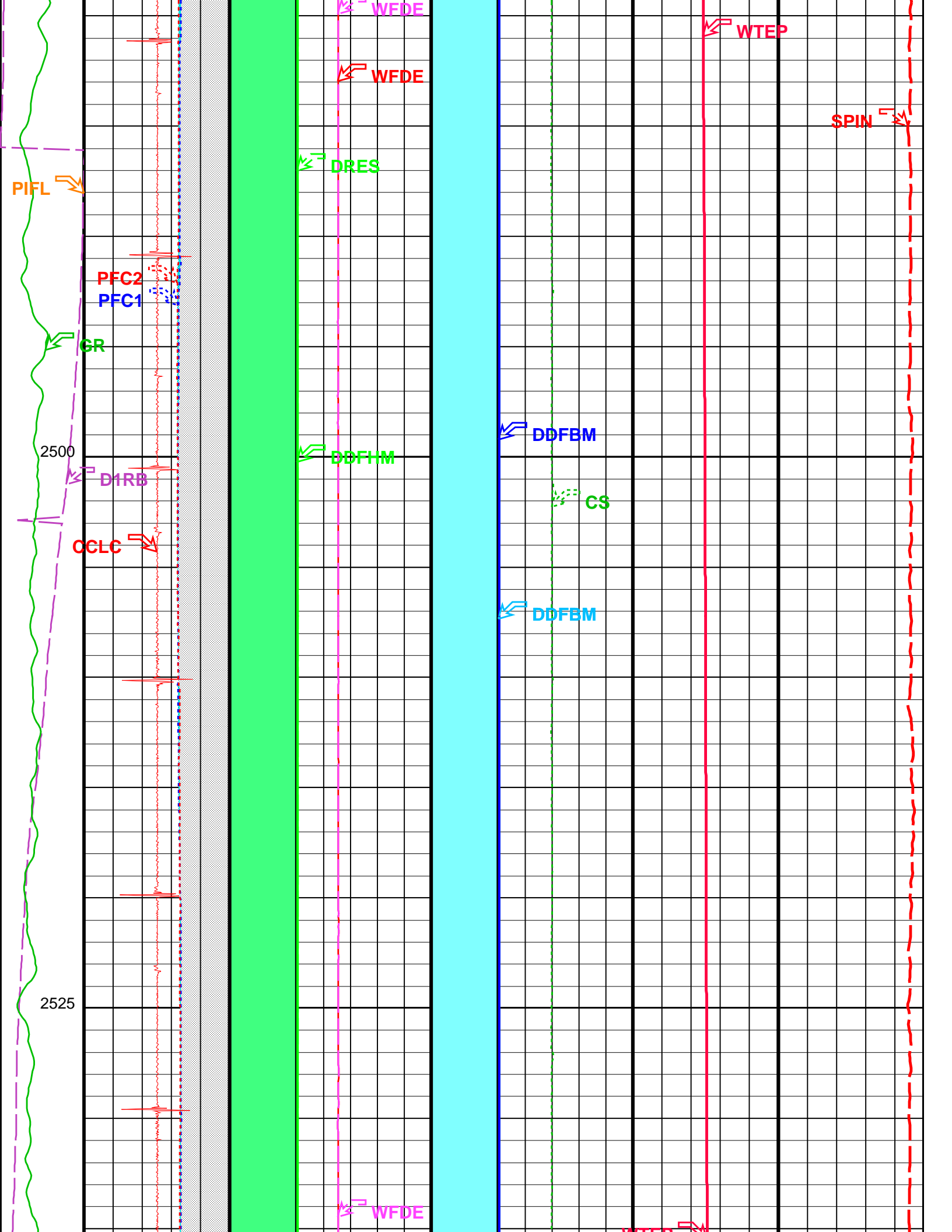


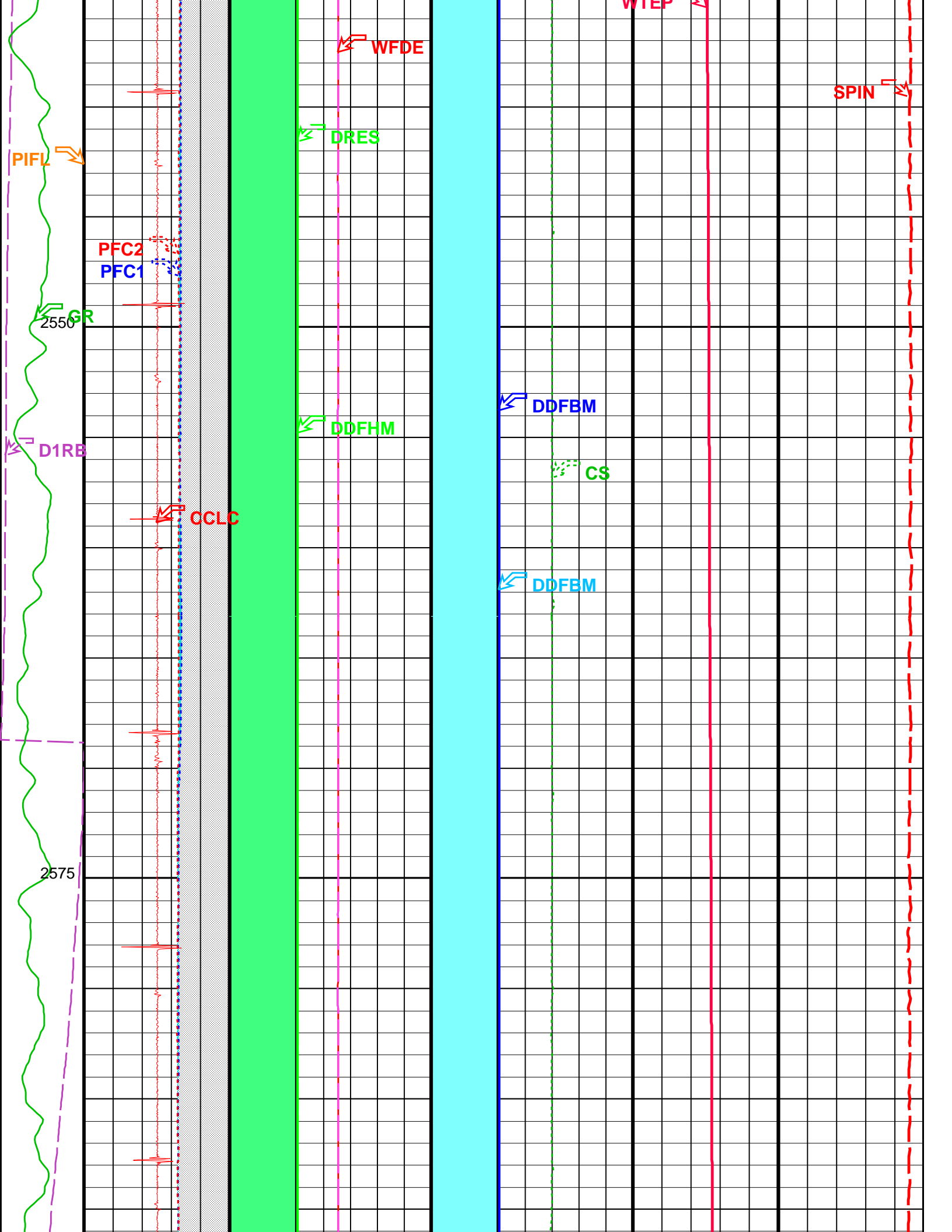


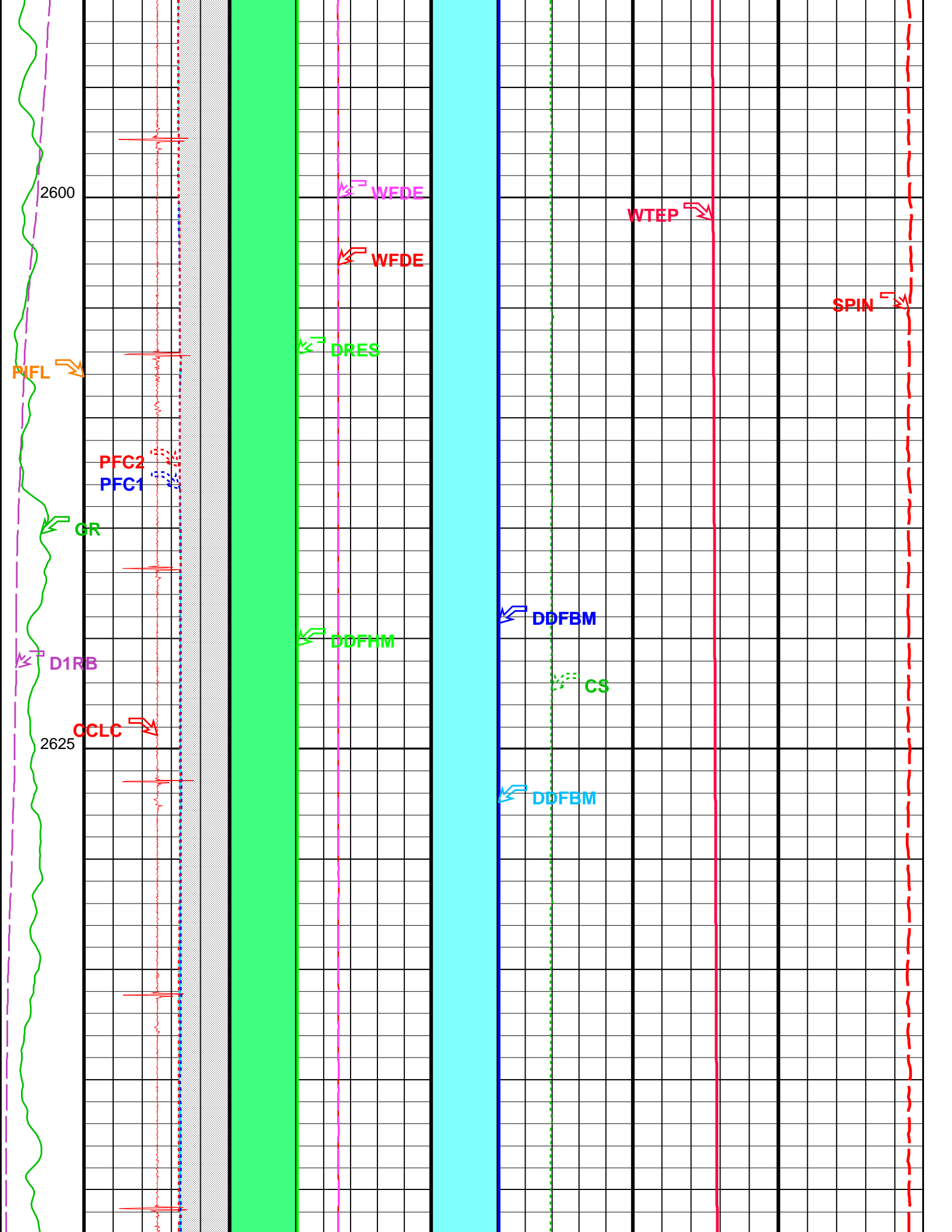


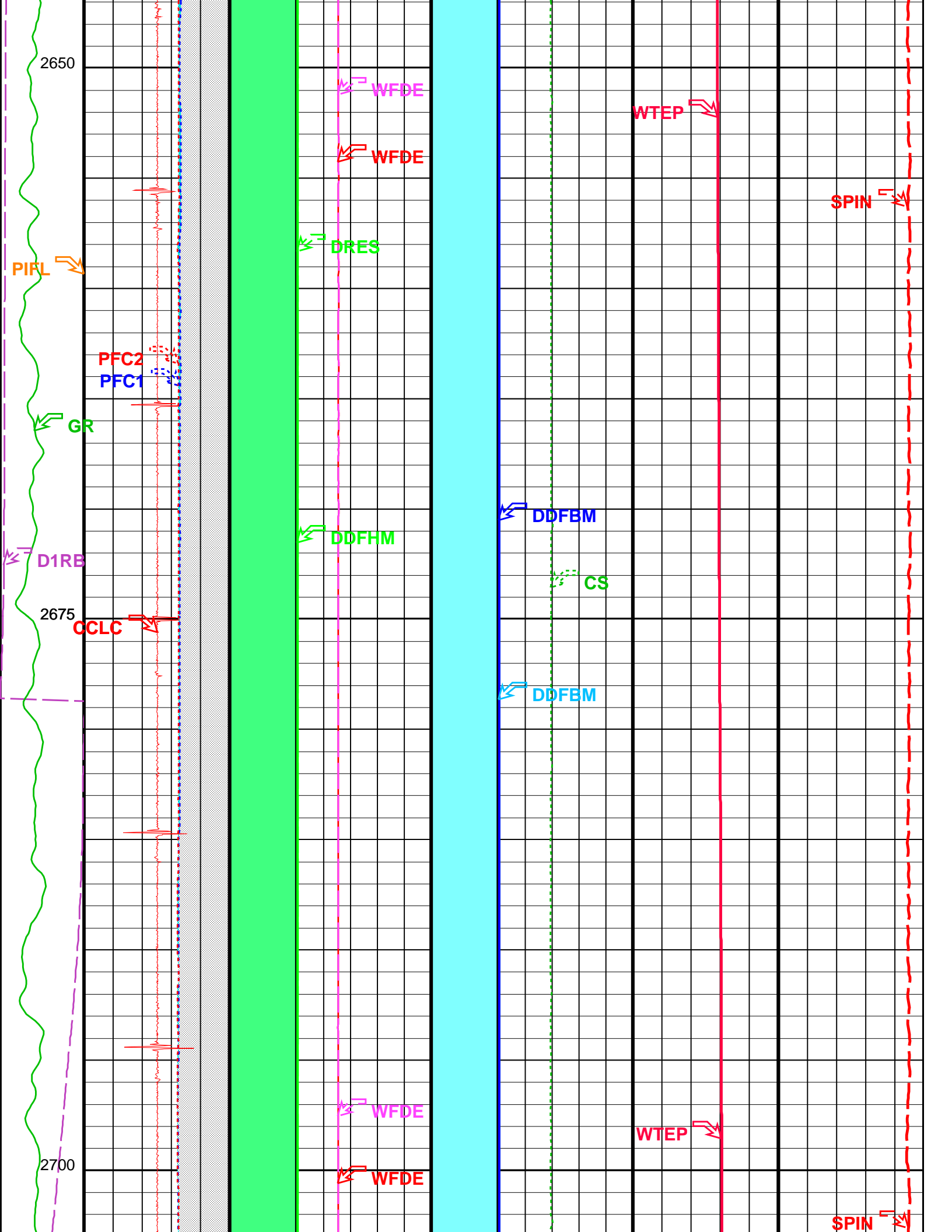


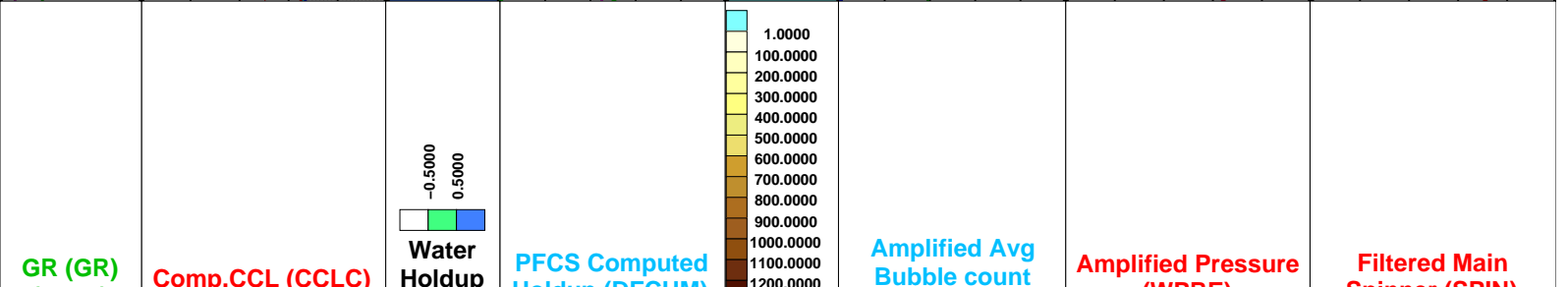
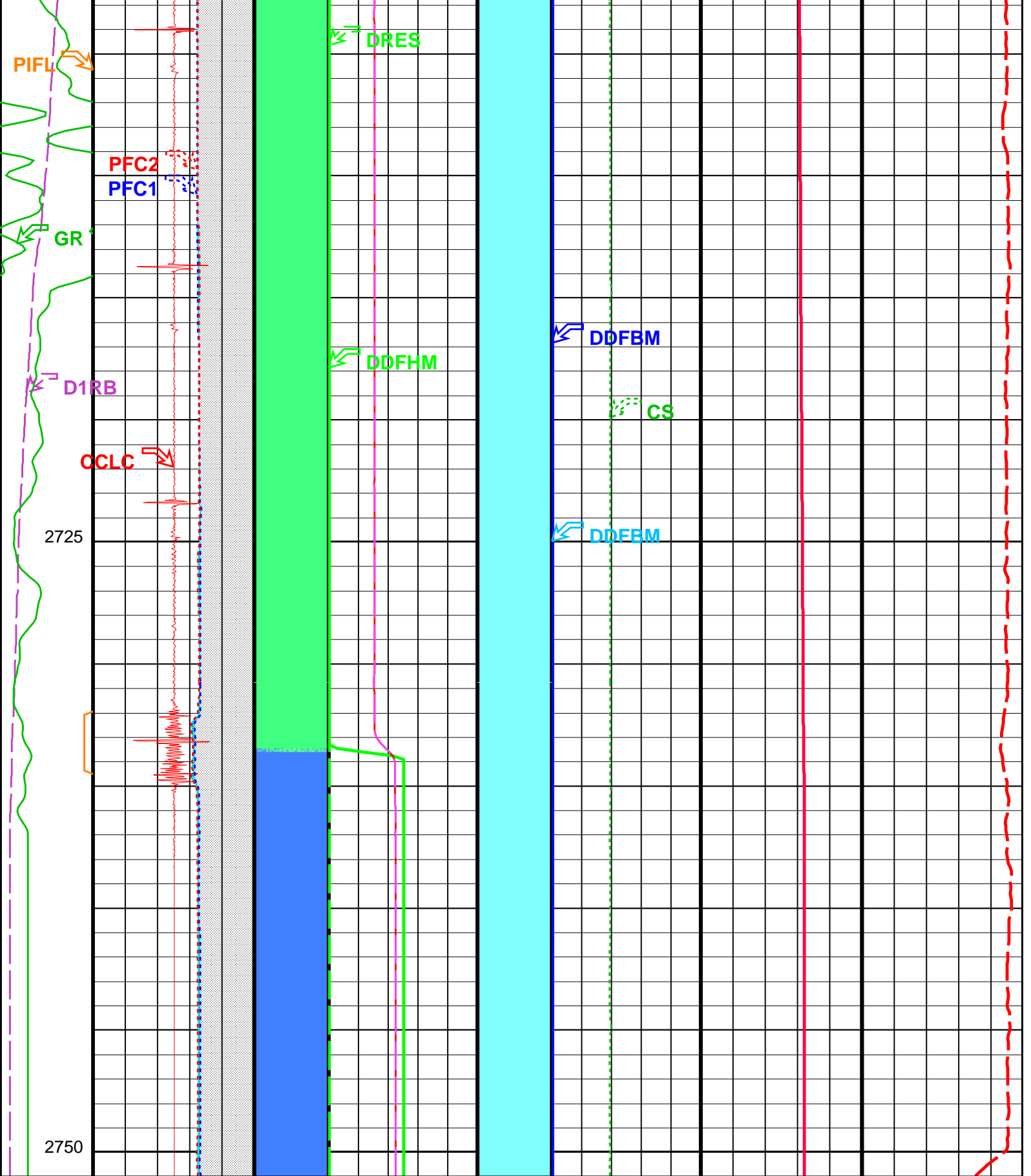












(GAPL)	(V)	Image 2 colors (WATER HIMAGE 2C) (----	Holdup (DFCHM)	1300.0000 1400.0000 1500.0000	(DDFBM)	(WPRE)	Spinner (SPIN)
0 150			0 (----) 1		0 (CPS) 1	0 (PSIA) 50	-5 (RPS) 5
Perfo Zone (PIFL)	PFC1 Caliper X (PFC1) (IN)		Avg Holdup (DDFHM)		Cable Speed (CS) (F/HR) 5000	Amplified Temperature (WTEP) (DEGC)	
20 (----) 0	8 (IN) 2		0 (----) 2			0 (DEGC) 1	
Probe1 RB (D1RB) (DEG)	PFC2 Caliper Y (PFC2) (IN)		Filtered Water Holdup (FHM)		Avg BUB count (DDFBM) (CPS) 100	Well Temperature (WTEP) (DEGC) 220	
0 360	8 (IN) 2		0 (----) 1				
	Well Diameter From PFC1 to PFC1_T1		PFC1 Fluid Resistivity (DRES) (OHMM) 360		Filtered Bubble Count (FBM) (CPS) 500		
	Well Diameter From PFC2 to PFC1_T1		Well Fluid Density (WFDE) (G/C3) 2				
	Pipe Ovalisation Between PFC1 and PFC2		Well Fluid Density (WFDE) (G/C3) 2				

Format: PFCS_Image_DL		Vertical Scale: 1:200		Graphics File Created: 17-Dec-2009 10:27	
OP System Version: 17C0-154					
PFCS-A	17C0-154	PILS-A	17C0-154		
DEFT-C2	17C0-154	PGMC-A/B	17C0-154		
RST-C	17C0-154	PSPT-A/B	17C0-154		

Parameters			
DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	4	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DFFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP	Probes Arm Position	C	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
PGFC	PFC1 Geometrical coefficient	1200	
PFRE1	Downhole Resistor Probe 1	3000	OHMS
PFRE2	Downhole Resistor Probe 2	3000	OHMS
PFRE3	Downhole Resistor Probe 3	3000	OHMS
PFRE4	Downhole Resistor Probe 4	3000	OHMS
SDCF	Spinner Depth Constant Filter	6	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5	
PILS-A: PSP In Line Spinner Flowmeter			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	4	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DFFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	

DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE		
DFPP2	Probes Arm Position (2nd tool)	D		
PFGC	PFCS Geometrical coefficient	1200		
	PGMC-A/B: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	4	IN	
PDSH	Gradio Correction Density Shift	0	G/C3	
	RST-C: Reservoir Saturation Pro Tool C			
CSID	Casing Size I.D.	4	IN	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
	PSPT-A/B: Production Services Logging Platform			
CSID	Casing Size I.D.	4	IN	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
	BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	4	IN	
	System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN	
DO	Depth Offset for Playback	-4.1	M	
PP	Playback Processing	NORMAL		

Input DLIS Files

Flip_FCS_ILS_DEFT_018LUP FN:1 17-Dec-2009 07:29 2756.5 M 2031.3 M

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_122PUP FN:136 PRODUCER 17-Dec-2009 10:27
CUSTOMER_ FCS_ILS_DEFT_GMS_122PUC FN:137 CUSTOMER 17-Dec-2009 10:27



RST- C SIGMA Pass
Static 1736 – 1800m MDKB

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-7

Input DLIS Files

FCS_ILS_DEFT_GMS_038LUP FN:37 15-Dec-2009 12:42 1829.4 M 1673.8 M

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_015PUP FN:14 PRODUCER 15-Dec-2009 14:26 1800.0 M 1738.0 M

OP System Version: 17C0-154

PFCS-A	17C0-154	PILS-A	17C0-154
DEFT-C2	17C0-154	PGMC-A/B	17C0-154
RST-C	17C0-154	PSPT-A/B	17C0-154

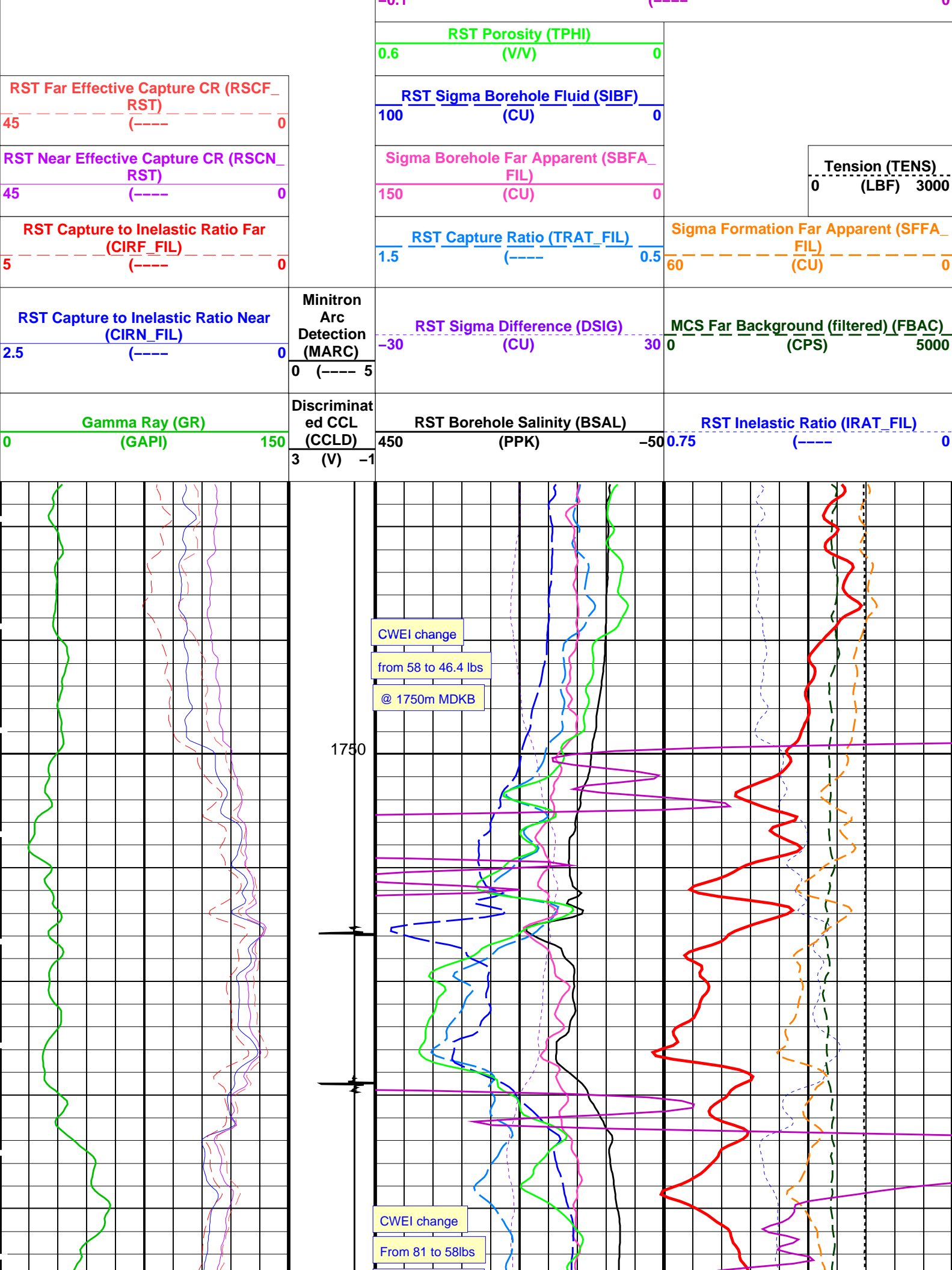
Changed Parameter Summary

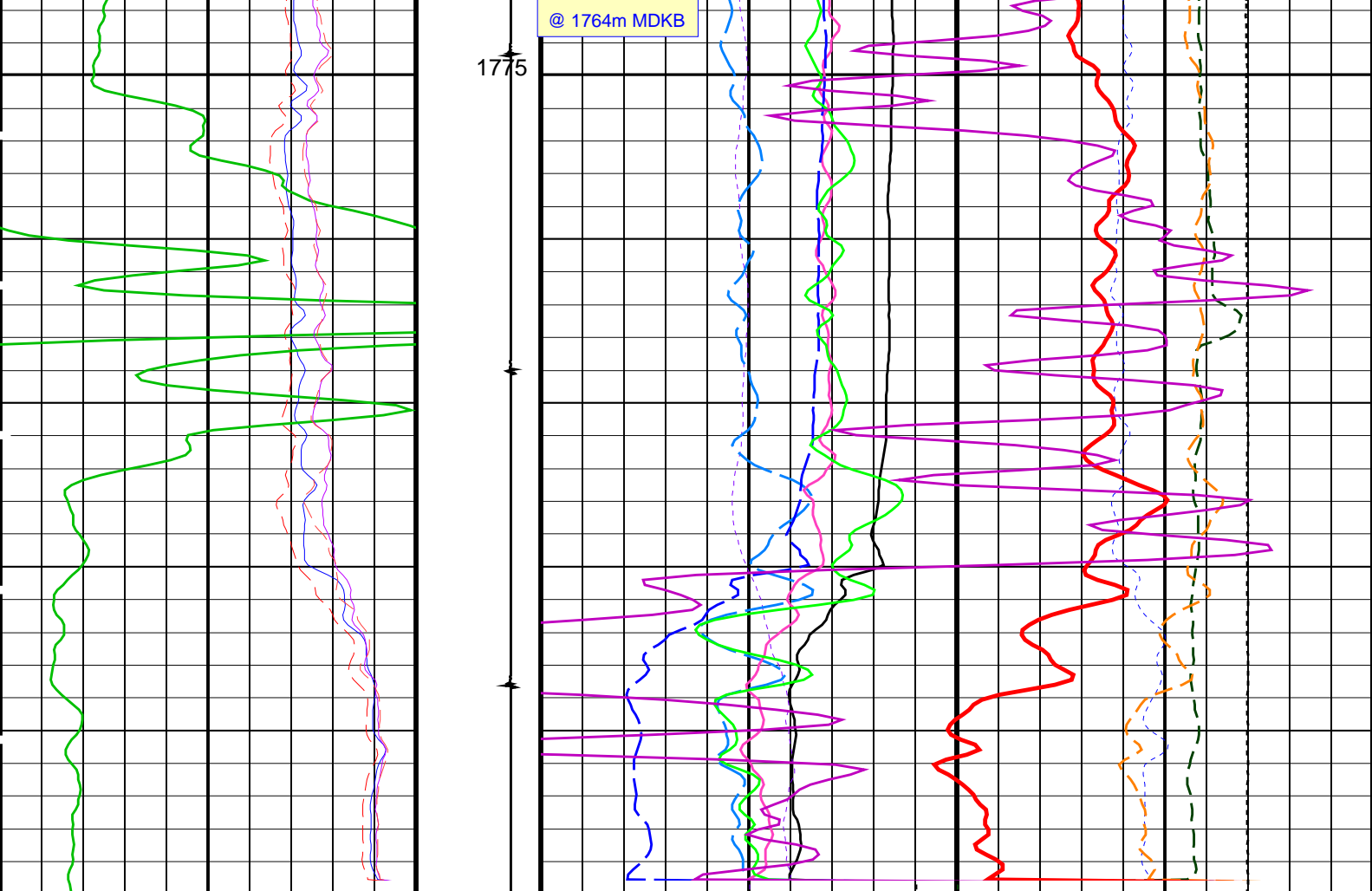
DLIS Name	New Value	Previous Value	Depth & Time
CWEI	81.00 LB/F	46.40 LB/F	1800.0 14:26:18
	58.00 LB/F	81.00 LB/F	1763.9 14:26:22
	46.40 LB/F	58.00 LB/F	1749.9 14:26:23

PIP SUMMARY

Time Mark Every 60 S

RST Sigma (SIGM)	
60	(CU) 0
RST Weighted Inelastic Ratio (WINR_RST)	
0.1	0





Gamma Ray (GR) (GAPI)	Discriminat ed CCL (CCLD)	RST Borehole Salinity (BSAL) (PPK)	RST Inelastic Ratio (IRAT_FIL) (----
0150	3 (V) -1	450-50	0.750
RST Capture to Inelastic Ratio Near (CIRN_FIL)	Minitron Arc Detection (MARC)	RST Sigma Difference (DSIG) (CU)	MCS Far Background (filtered) (FBAC) (CPS)
2.50	0 (---- 5	-3030	05000
RST Capture to Inelastic Ratio Far (CIRF_FIL)		RST Capture Ratio (TRAT_FIL) (----	Sigma Formation Far Apparent (SFFA_FIL) (CU)
50		1.50.5	600
RST Near Effective Capture CR (RSCN_RST)		Sigma Borehole Far Apparent (SBFA_FIL) (CU)	Tension (TENS) (LBF)
450		1500	03000
RST Far Effective Capture CR (RSCF_RST)		RST Sigma Borehole Fluid (SIBF) (CU)	
450		1000	
		RST Porosity (TPHI) (V/V)	
		0.60	
		RST Weighted Inelastic Ratio (WINR_RST) (----	
		-0.10	
		RST Sigma (SIGM) (CU)	
		600	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RST-C: Reservoir Saturation Pro Tool C			
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
RGAI	Near/Far Gain Calibration Ratio	1	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
PSPT-A/B: Production Services Logging Platform			
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
System and Miscellaneous			
BS	Bit Size	12.125	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	46.40	LB/F
DO	Depth Offset for Playback	0.2	M
PP	Playback Processing	NORMAL	


Format: RST_SIG_ANSW

Vertical Scale: 1:200

Graphics File Created: 15-Dec-2009 14:26

OP System Version: 17C0-154			
PFCS-A	17C0-154	PILS-A	17C0-154
DEFT-C2	17C0-154	PGMC-A/B	17C0-154
RST-C	17C0-154	PSPT-A/B	17C0-154

Input DLIS Files					
	FCS_ILS_DEFT_GMS_038LUP	FN:37	15-Dec-2009 12:42	1829.4 M	1673.8 M
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_015PUP	FN:14	PRODUCER	15-Dec-2009 14:26	

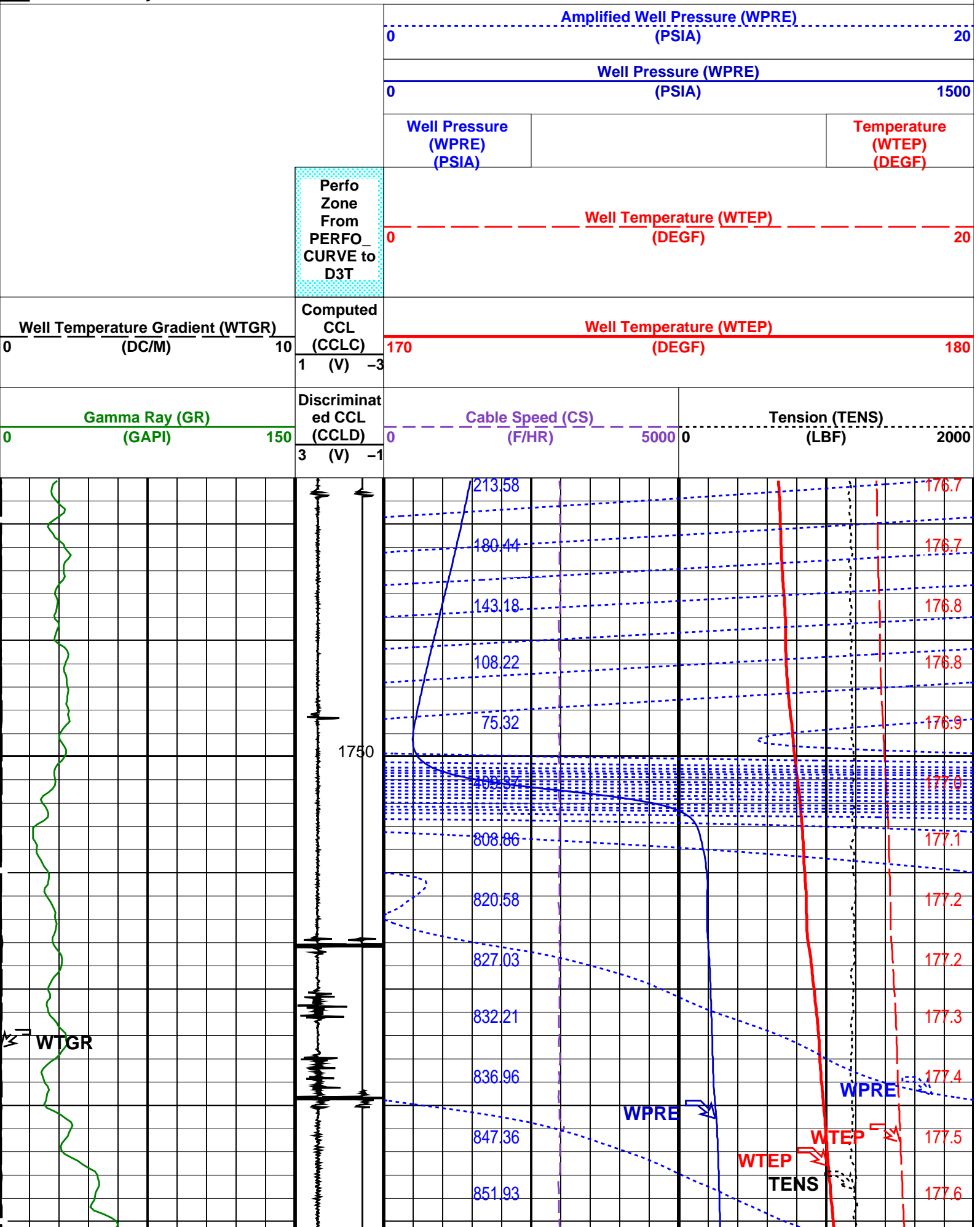


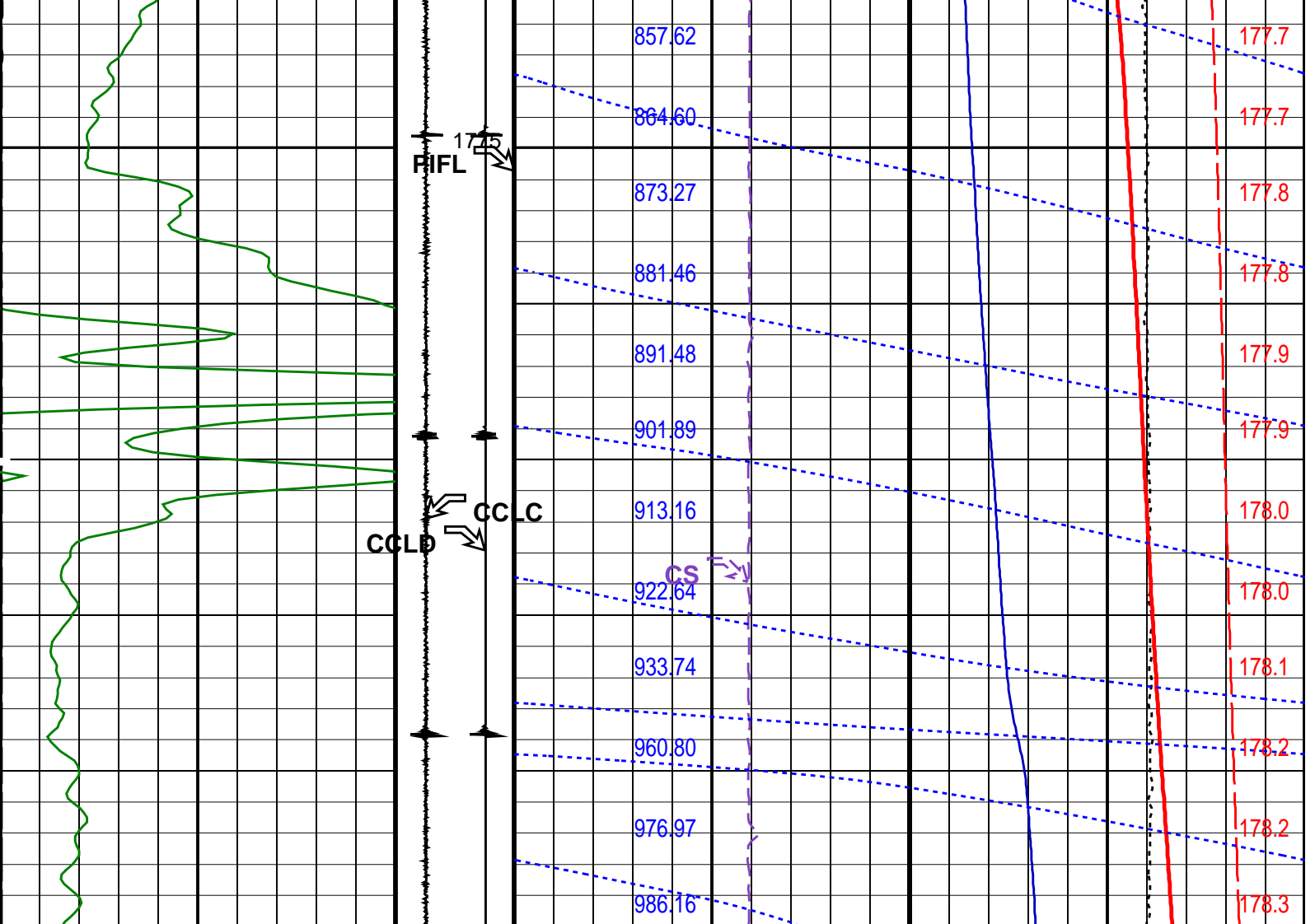
RST- C Correlation pass
Static 1736 – 1800m MDKB

MAXIS Field Log

Company: Esso Australia Pty Ltd.						Well: A-7
Input DLIS Files						
	FCS_ILS_DEFT_GMS_037LUP	FN:36		15-Dec-2009 12:42	1849.2 M	1683.7 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_005PUP	FN:4	PRODUCER	15-Dec-2009 13:24	1800.0 M	1738.0 M
OP System Version: 17C0-154						
PFCS-A	17C0-154		PILS-A	17C0-154		
DEFT-C2	17C0-154		PGMC-A/B	17C0-154		






Time Mark Every 60 S









Gamma Ray (GR) (GAPI)	Discriminat ed CCL (CCLD) 3 (V) -1	Cable Speed (CS) (F/HR)	Tension (TENS) (LBF)
Well Temperature Gradient (WTGR) (DC/M)	Computed CCL (CCLC) 1 (V) -3	Well Temperature (WTEP) (DEGF)	
Perfo Zone From PERFO CURVE to D3T		Well Temperature (WTEP) (DEGF)	
		Well Pressure (WPRE) (PSIA)	Temperature (WTEP) (DEGF)
		Well Pressure (WPRE) (PSIA)	
		Amplified Well Pressure (WPRE) (PSIA)	

PIP SUMMARY

After		2.694	After		5.267	After		2.921		
N/A (Minimum)3.000 (Nominal)N/A (Maximum)			N/A (Minimum)5.500 (Nominal)N/A (Maximum)			N/A (Minimum)3.000 (Nominal)N/A (Maximum)				
Phase	PFCS CaliperY Large Ring IN									
Before									5.421	
After									5.421	
N/A (Minimum)5.500 (Nominal)N/A (Maximum)										
Before: 10-Dec-2009 13:27			After: 10-Dec-2009 13:31							

DEFT_C Tool / Equipment Identification				
Primary Equipment:				
DEFTC Cartridge	DFCC – C	793	793	
DEFT_C Caliper	Cali –	793	793	
DEFT_C2 Relative Bearing	Rela –	793	793	
DEFT_C Flowmeter probes	Flow –	793	793	
Auxiliary Equipment:				
DEFTC Cartridge Housing	DFCH – C	793	793	

DEFT_C Tool Wellsite Calibration					
DEFT_C2 Caliper Calibration					
Phase	DEFT-C2 Caliper Small Ring IN	Value	Phase	DEFT-C2 Caliper Large Ring IN	Value
Before		3.172	Before		5.570
After		3.142	After		5.570
N/A (Minimum) 3.000 (Nominal) N/A (Maximum)			N/A (Minimum) 5.500 (Nominal) N/A (Maximum)		
Before: 10-Dec-2009 13:28			After: 10-Dec-2009 13:30		

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **A-7**

Field: **Tuna**

Rig: **Prod 4 / Crane**

Country: **Australia**

RST Sigma Survey

PLT GR/CCL/Gradio/IL-Spinner/FB-Spinner

Dual DEFT/ Pressure/ Temperature