

Company: Esso Australia Pty Ltd.

Well: A22A

Field: Marlin

Rig: Crane / Prod 4

Country: Australia

RST-C  
Sigma Survey  
24-Jun-2009

Crane / Prod 4  
Marlin  
Gippsland  
A22A  
Esso Australia Pty Ltd.

LOCATION	
Gippsland	Elev.: K.B. 27.40 m
Basin	G.L. -59.00 m
Bass Strait	D.F. 27.40 m
Permanent Datum:	M.S.L. _____
Log Measured From:	K.B. _____
Drilling Measured From:	K.B. _____
State: Victoria	Max. Well Deviation 66 deg
	Longitude 148 13'09.18"E
	Latitude 038 13'55.49"S

Logging Date	24-Jun-2009		
Run Number	1		
Depth Driller	3617 m		
Schlumberger Depth	3547 m		
Bottom Log Interval	3540 m		
Top Log Interval	2800 m		
Casing Fluid Type	Production fluids		
Salinity			
Density			
Fluid Level	0 m		
BIT/CASING/TUBING STRING			
Bit Size	8.500 in		
From	1900 m		
To	3617 m		
Casing/Tubing Size	4.500 in		
Weight	13.5 lbm/ft		
Grade	L-80		
From	12.5 m		
To	3615.5 m		
Maximum Recorded Temperatures	265 degF		
Logger On Bottom	24-Jun-2009	11:55	
Unit Number	889	AUSL	
Recorded By	O.Darby		
Witnessed By	G. Rimmer		

PVT DATA				Run 1	Run 2	Run 3
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation	66 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						
Unit Number						
Recorded By						
Witnessed By						

[illegible]

## DEPTH SUMMARY LISTING

Date Created: 25-JUN-2009 23:29:04

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-EB	Type:	PSDS/OSDS	Type:	2-32ZT
Serial Number:	6373	Serial Number:	325357	Serial Number:	207308
Calibration Date:	2-Dec-2008	Calibration Date:	5-May-2009	Length:	7315 M
Calibrator Serial Number:	30	Calibrator Serial Number:	1174	Conveyance Method:	Wireline
Calibration Cable Type:	2-23ZT	Number of Calibration Points:	10	Rig Type:	Offshore Fixed
Wheel Correction 1:	-1	Calibration RMS:	19		
Wheel Correction 2:	-2	Calibration Peak Error:	31		

## Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Solar Composite log
Reference Log Run Number:	Not provided
Reference Log Date:	Not provided

### Depth Control Remarks

1. IDW used as primary depth control.
2. Z-chart used as secondary backup
3. Logs correlated to GR located @ 2155m & 3485m MDKB
4. CMTD Calibration:  $A=8.95E-6$ ,  $B=0.8647$ ,  $C=-82.7$
- 5.
- 6.

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OTHER SERVICES1	OTHER SERVICES2
OS1:   None	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to Solar Composite Log.	

Objective: RIH with RST toolstring to 3540m MDKB, correlate on depth using solar composite log, start mintron allow 15mins for tool to stabilise. With well shut-in, complete one pass over the interval 3540m to 2800m MDKB @ 900 ft/hr.

Pick up and position thro PST toolstring at 2180m MDKB correlate on depth

BHP = 3681 Psia    BHT = 264 DegF  
Tagged HUD @ 3547m MDKB

Schlumberger Crew:  
N.Simmons, A. McLellan

RUN 1 SERVICE ORDER #: AXWT-00098 PROGRAM VERSION: 16C0-147 FLUID LEVEL: 0 m			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

RUN 1

RUN 2

## SURFACE EQUIPMENT

WITM-A  
PSC 16MHZ

## DOWNHOLE EQUIPMENT

AH-SWBS-B 789  
AH-SWBS-B 789

13.30

AH-SWBS-B 788  
AH-SWBS-B 788

12.61

AH-SWBS-B 787  
AH-SWBS-B 787

11.93

AH-SWBS-B 786  
AH-SWBS-B 786

11.24

AH-SWBS-B 785  
AH-SWBS-B 785

10.55

MH-SWHS-A 759  
MH-SWHS-A 759

Detail MT  
TelStatus  
CTEM

9.87

9.54





9.54

PSPT-B  
PSC-A 3918  
PSPT-B 3918  
PSTC 3918  
PBMS-B 3918  
CQG\_F\_Mano 3918  
RTD Thermometer 3918  
GR 3918  
CCL 3918  
PBMS 3918

GR

8.41

Well\_Temp  
CQG Manom  
CCL  
PBMS PSTC

	7.48
	7.37
	7.25
	7.02

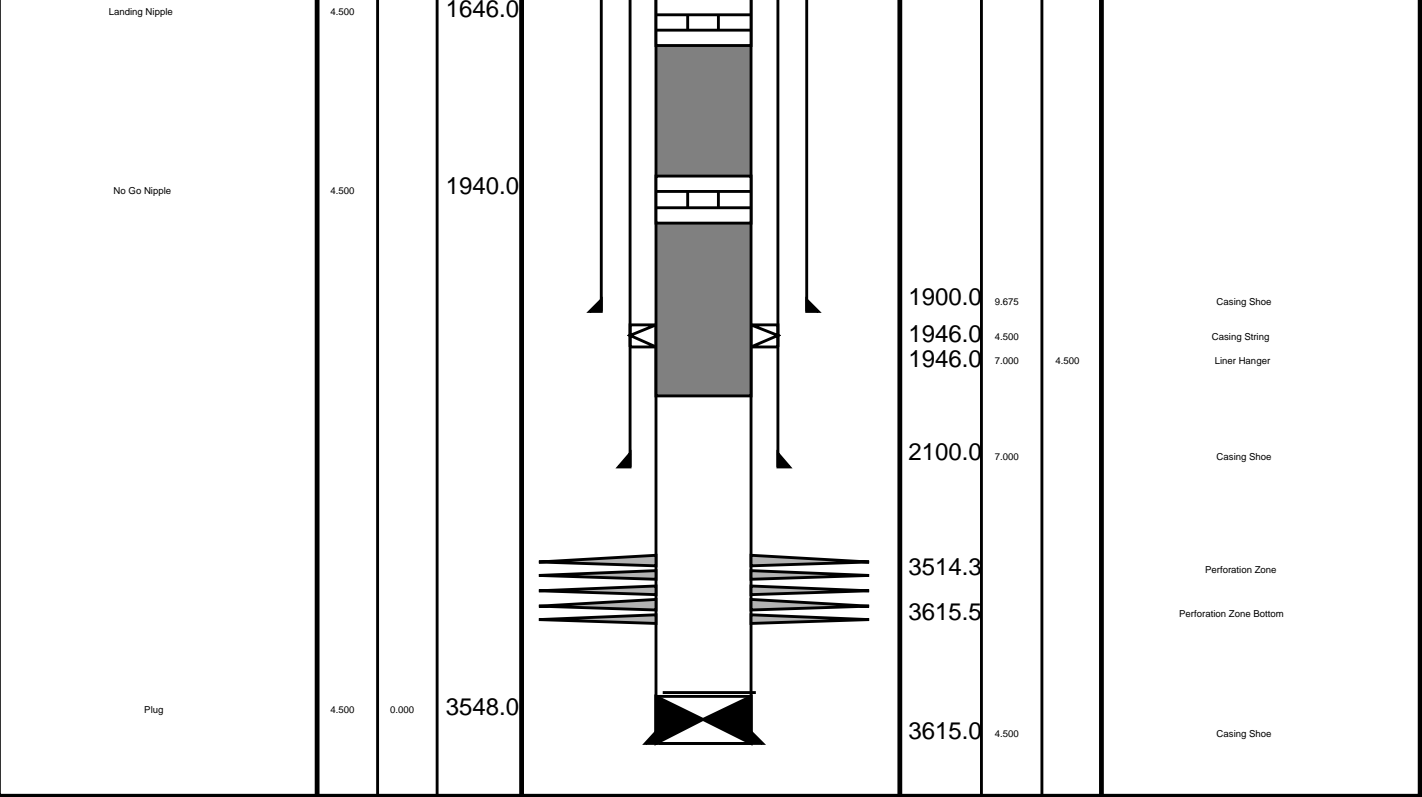
RST-C BLK-1

7.02

RSCH-A 471  
RSC-C 488  
RSS-A 437  
RSXH-A 500  
RSX-C 490

$$\begin{array}{r} 4.24 \\ - 4.09 \\ \hline \end{array}$$

MAXIMUM STRING DIAMETER 1.72 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS



## Job Events Summary

MAXIS Field Log

### Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Simulated Log	24-Jun-2009 20:43	000:03		RST_PSP_007LUP
OP checked toolstring				
Log Pass (down)	25-Jun-2009 0:44	000:15	1948.7 - 2187.4	RST_PSP_011LDP
GR baseline 1970 - 2180m MDKB				
Log Pass (up)	25-Jun-2009 1:10	000:52	2198.8 - 1954.4	RST_PSP_013LUP
RST sigma survey 1970 - 2180m MDKB				
Simulated Log	25-Jun-2009 18:18	000:00		RST_PSP_030LUP
OP checked toolstring				
Log Pass (down)	25-Jun-2009 19:19	000:33	2780.5 - 3544.7	RST_PSP_032LDP
GR Baseline pass 2800 - 3540m MDKB				
Log Pass (up)	25-Jun-2009 20:18	002:40	3550.5 - 2785.7	RST_PSP_034LUP
RST sigma survey 2800 - 3540m MDKB				



# RST Sigma Pass 2800 – 3540m MDKB

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A22A

## Output DLIS Files

DEFAULT RST\_PSP\_034LUP FN:31 PRODUCER 25-Jun-2009 20:18 3550.5 M 2785.7 M

## OP System Version: 16C0-147

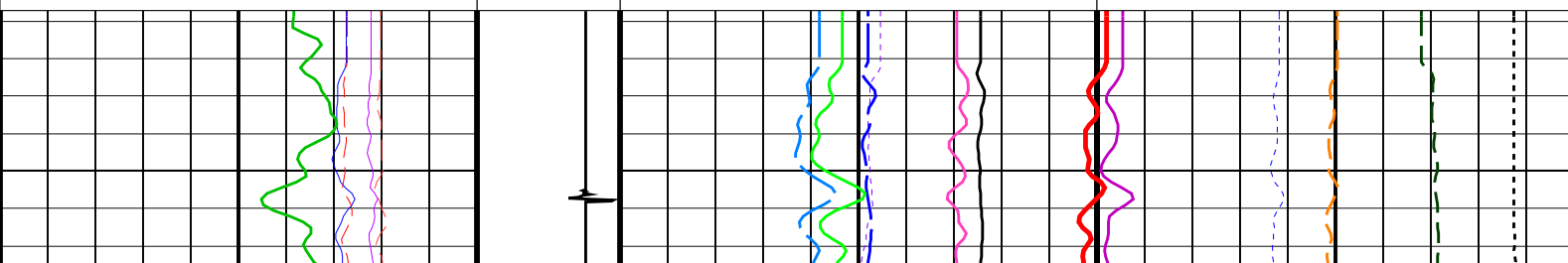
MCM

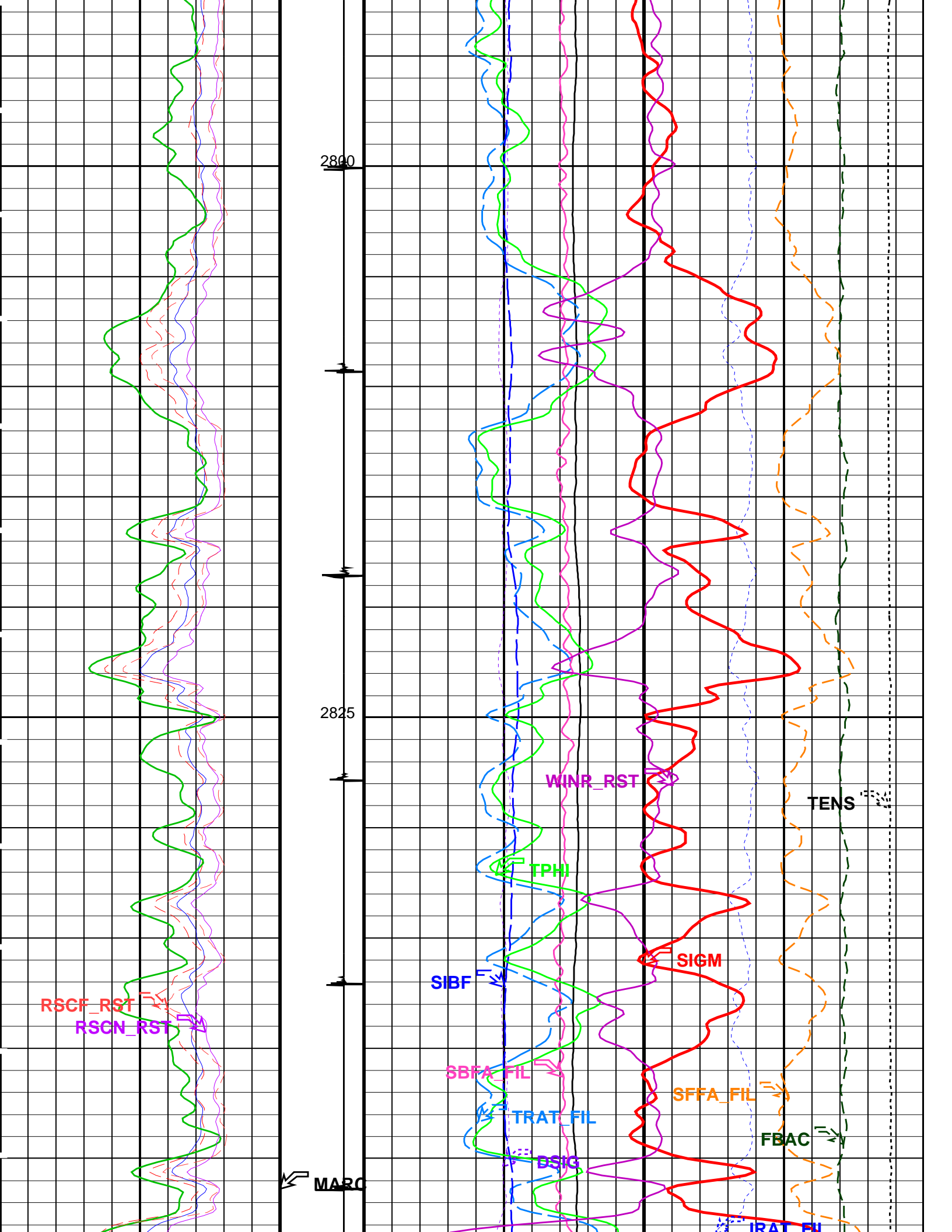
RST-C SRPC-3777-Q4\_2008\_OP16 PSPT-B SRPC-3777-Q4\_2008\_OP16

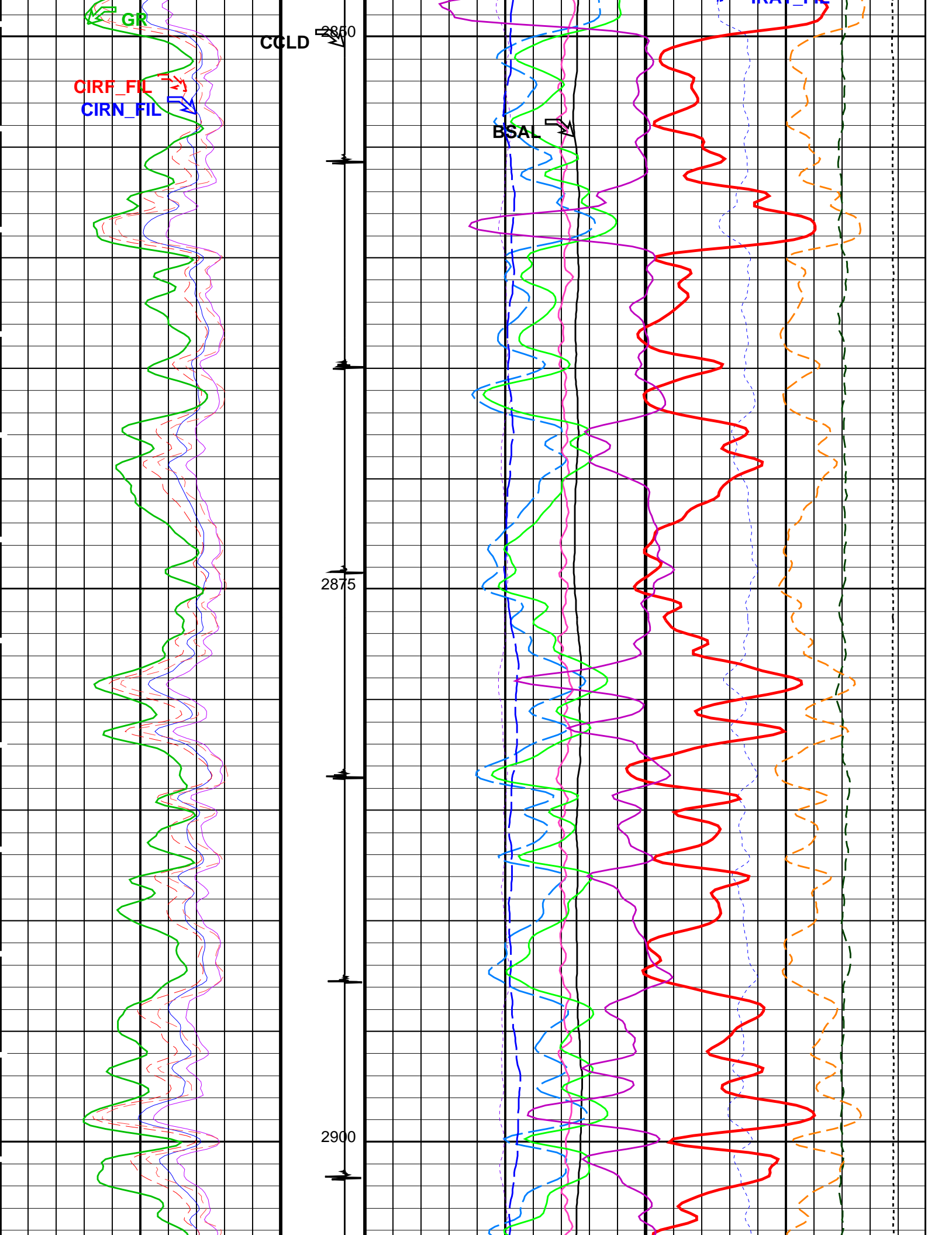
## PIP SUMMARY

Time Mark Every 60 S

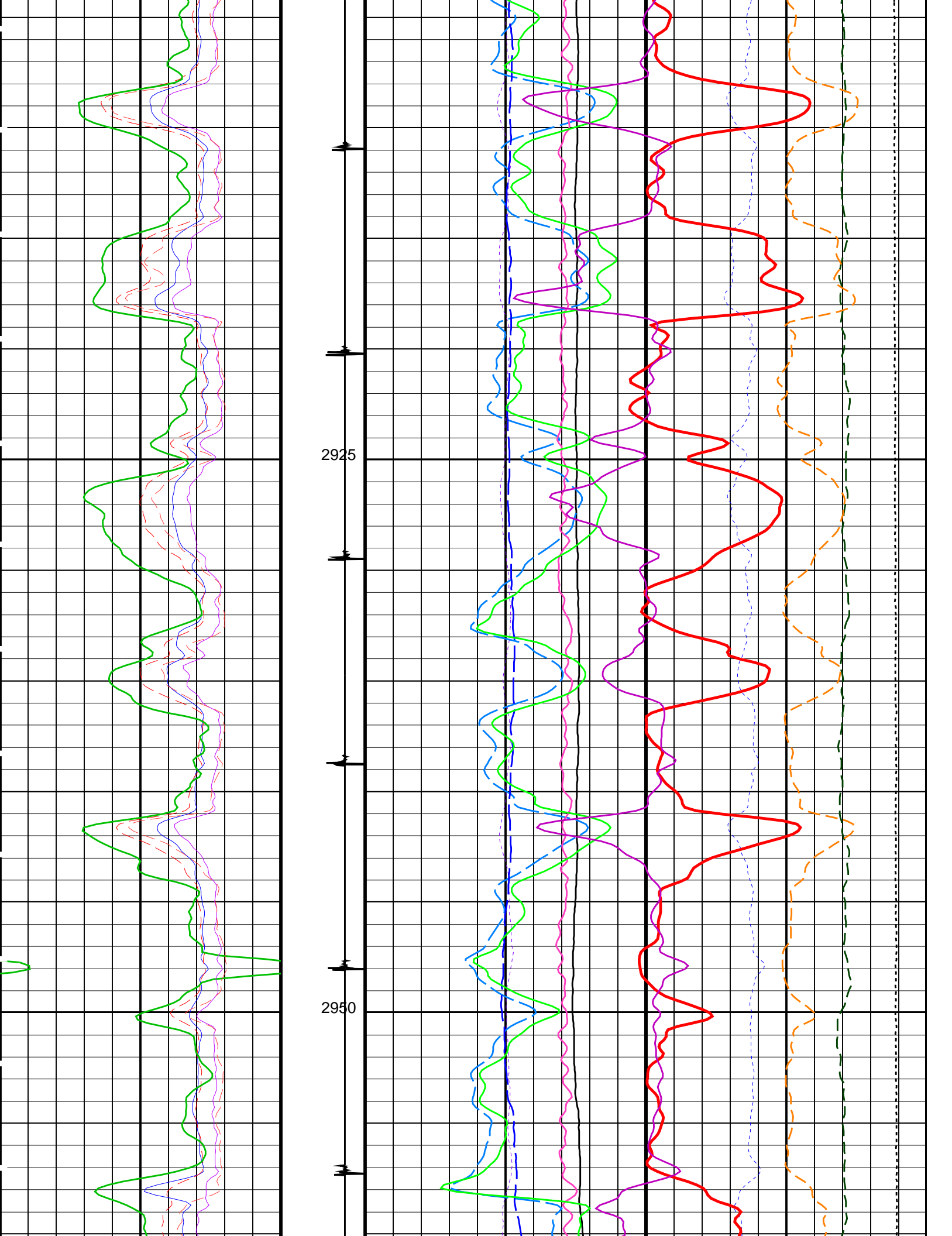
		<b>RST Sigma (SIGM)</b>	
		60 (CU)	0
		<b>RST Weighted Inelastic Ratio (WINR_RST)</b>	
		0.3 (----	-0.3
		<b>RST Porosity (TPHI)</b>	
		0.6 (V/V)	0
<b>RST Far Effective Capture CR (RSCF_RST)</b>		<b>RST Sigma Borehole Fluid (SIBF)</b>	
45 (-----	0	100 (CU)	0
<b>RST Near Effective Capture CR (RSCN_RST)</b>		<b>Sigma Borehole Far Apparent (SBFA_FIL)</b>	
45 (-----	0	150 (CU)	0
		<b>Tension (TENS)</b>	
		0 (LBF) 2200	
<b>RST Capture to Inelastic Ratio Far (CIRF_FIL)</b>		<b>RST Capture Ratio (TRAT_FIL)</b>	<b>Sigma Formation Far Apparent (SFFA_FIL)</b>
5 (-----	0	1.5 (-----	0.5 60 (CU) 0
<b>RST Capture to Inelastic Ratio Near (CIRN_FIL)</b>		<b>RST Sigma Difference (DSIG)</b>	
2.5 (-----	0	-30 (CU)	30 0
		<b>MCS Far Background (filtered) (FBAC)</b>	
		0 (CPS) 5000	
		<b>RST Inelastic Ratio (IRAT_FIL)</b>	
		0.75 (-----	
		0	
<b>Gamma Ray (GR)</b>		<b>RST Borehole Salinity (BSAL)</b>	
0 (GAPI)	150	450 (PPK)	-50
		<b>RST Inelastic Ratio (IRAT_FIL)</b>	
		0.75 (-----	
		0	

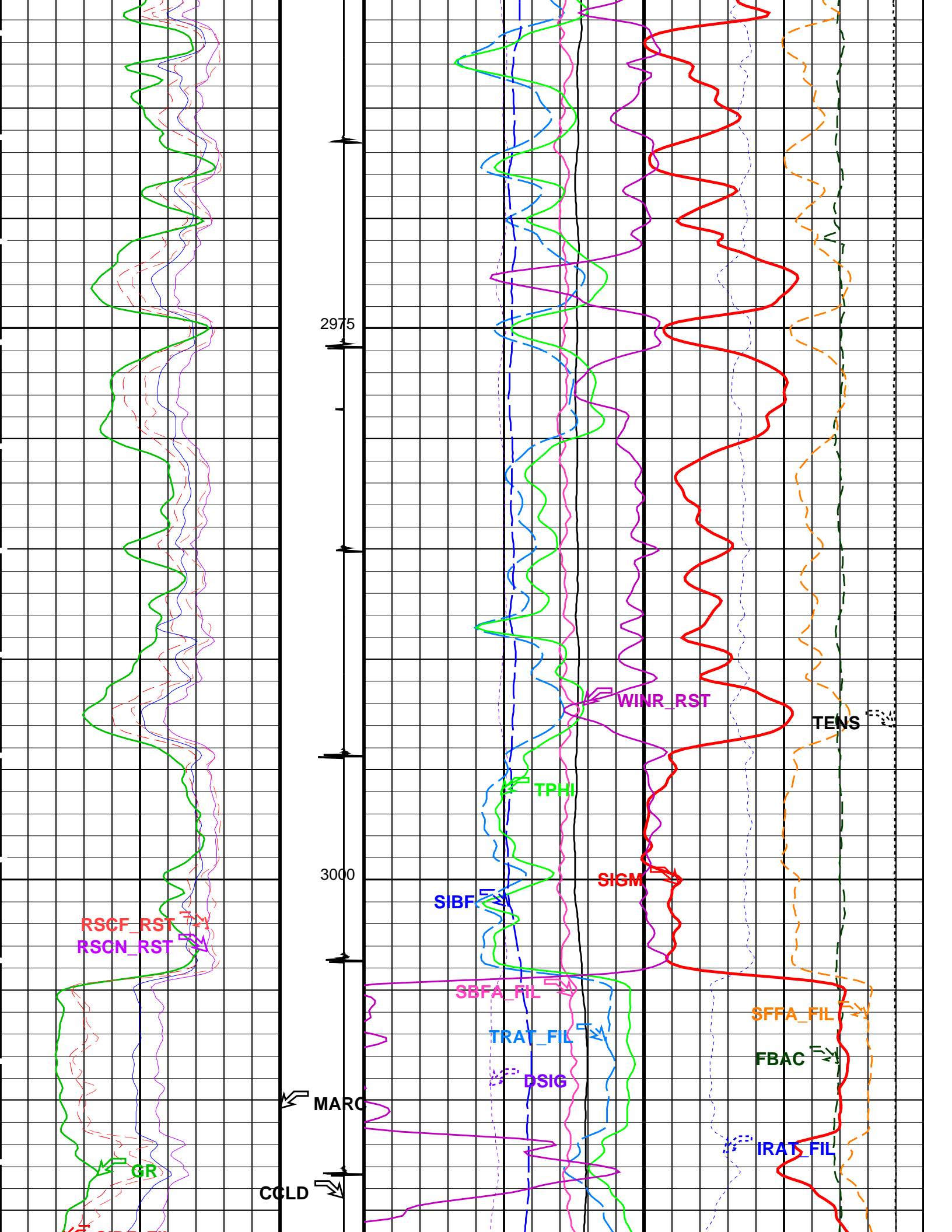


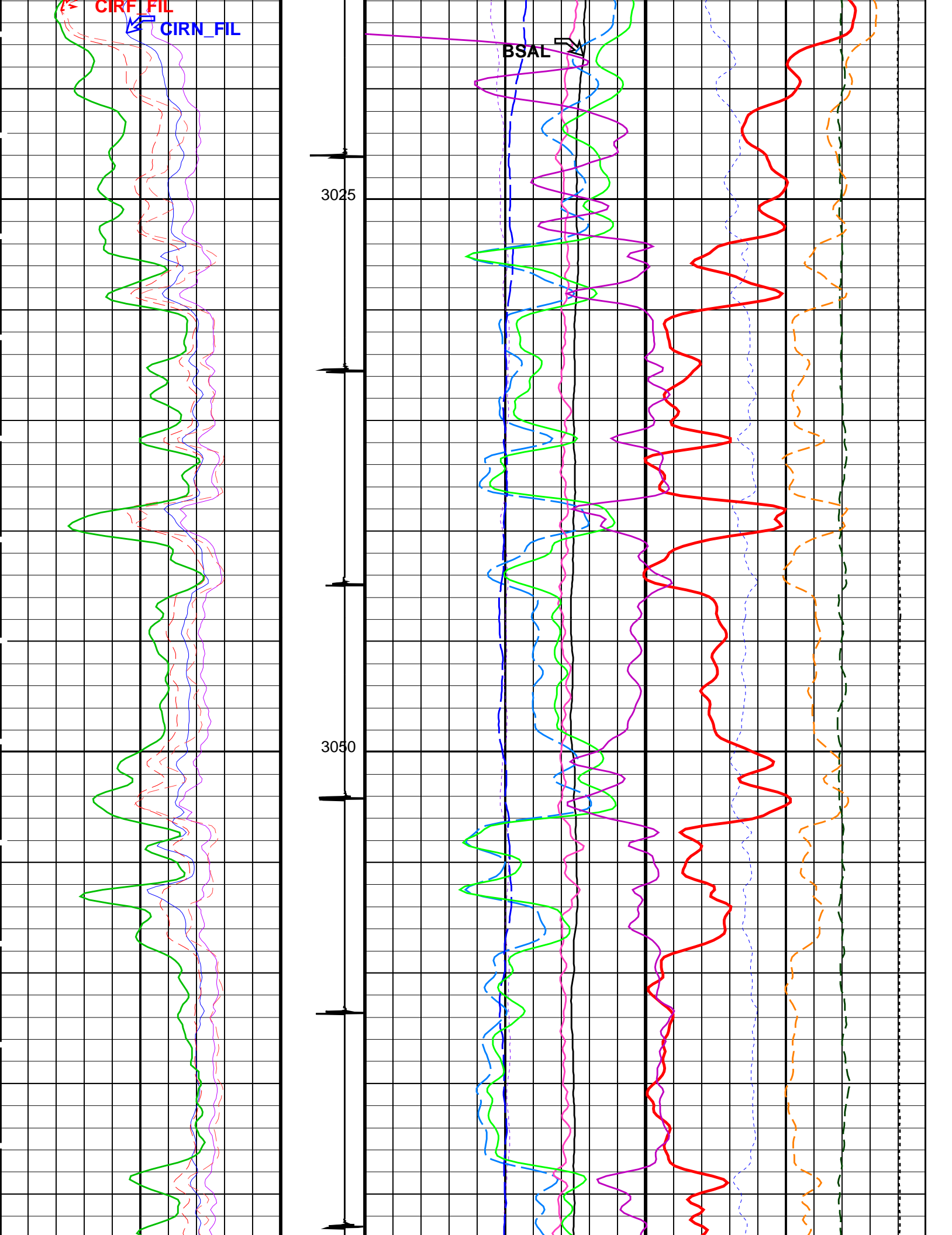


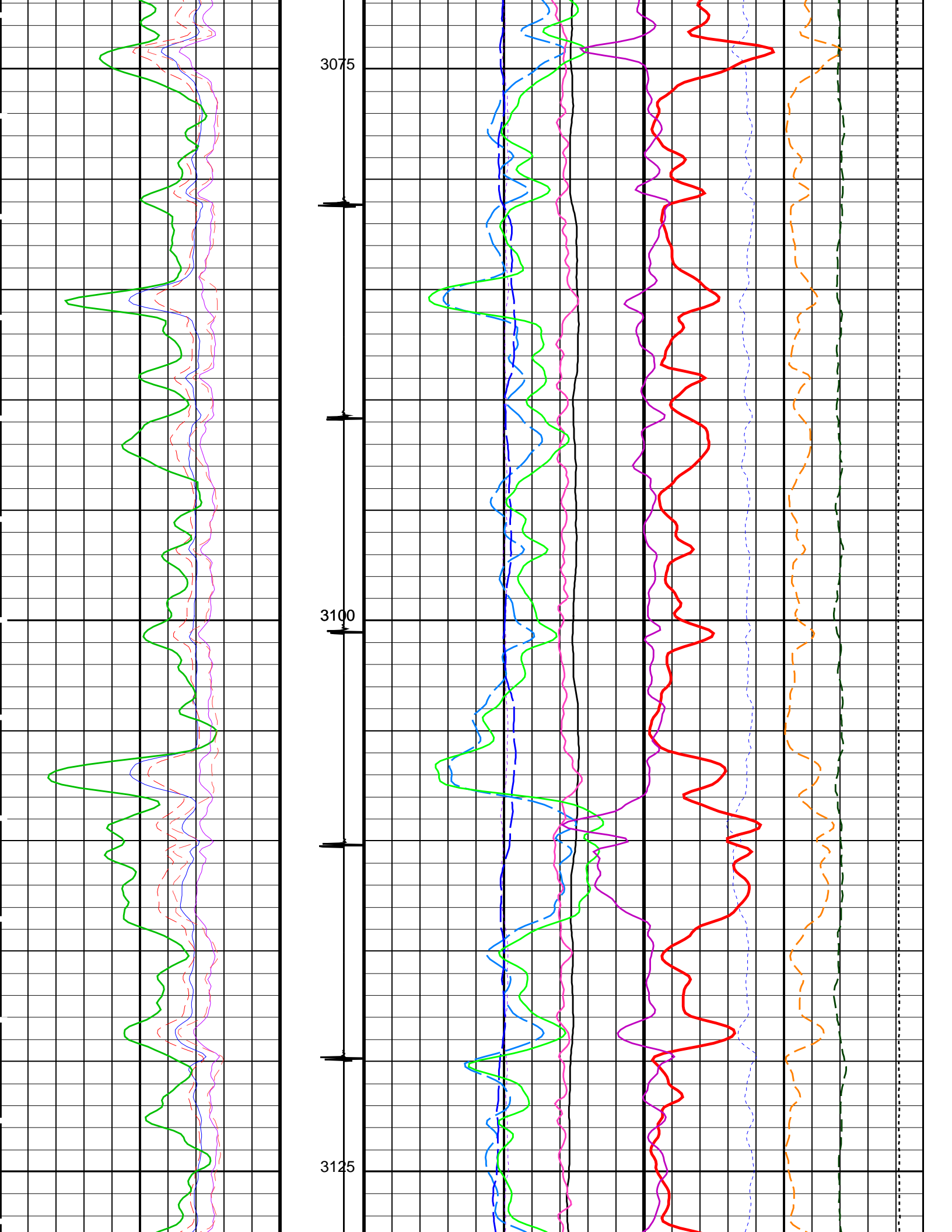


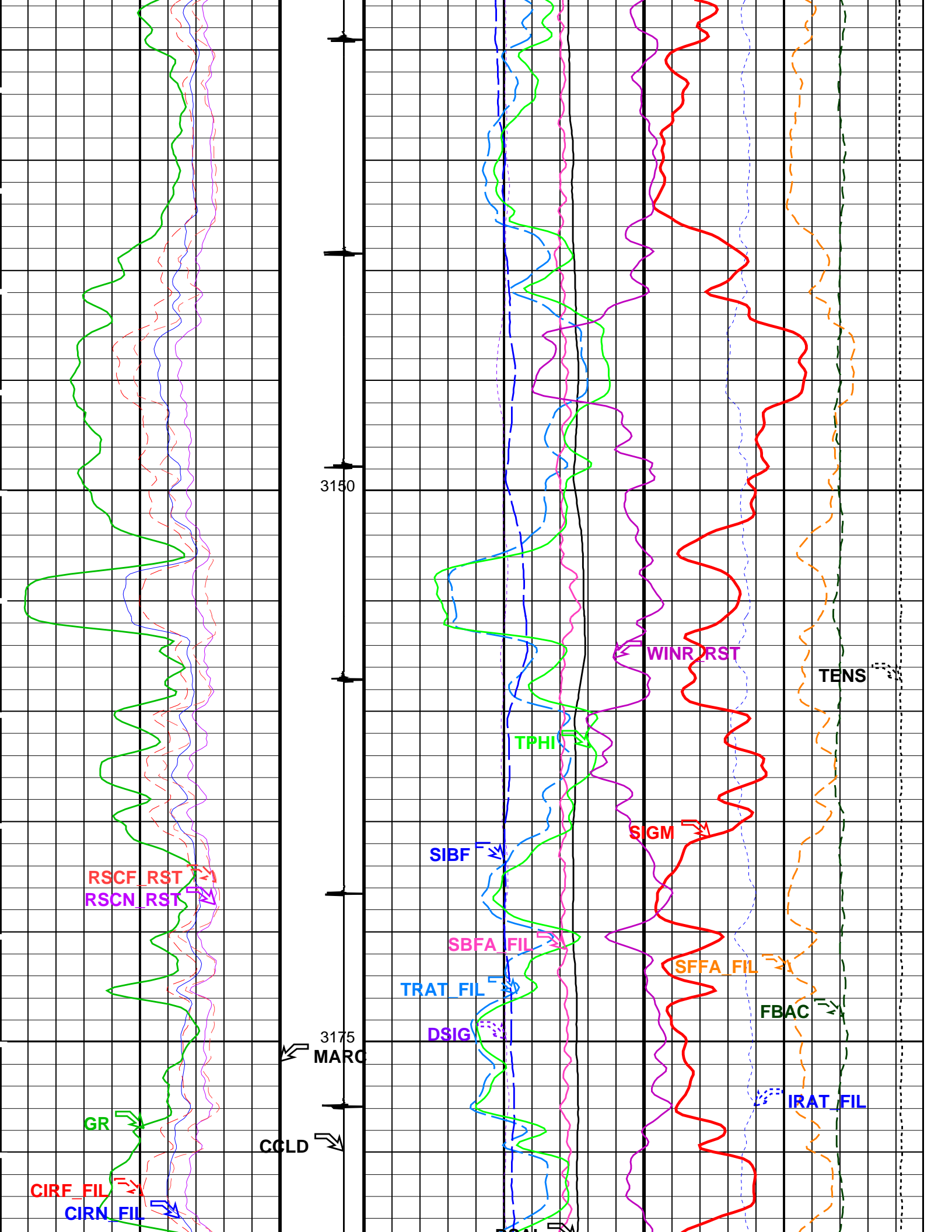


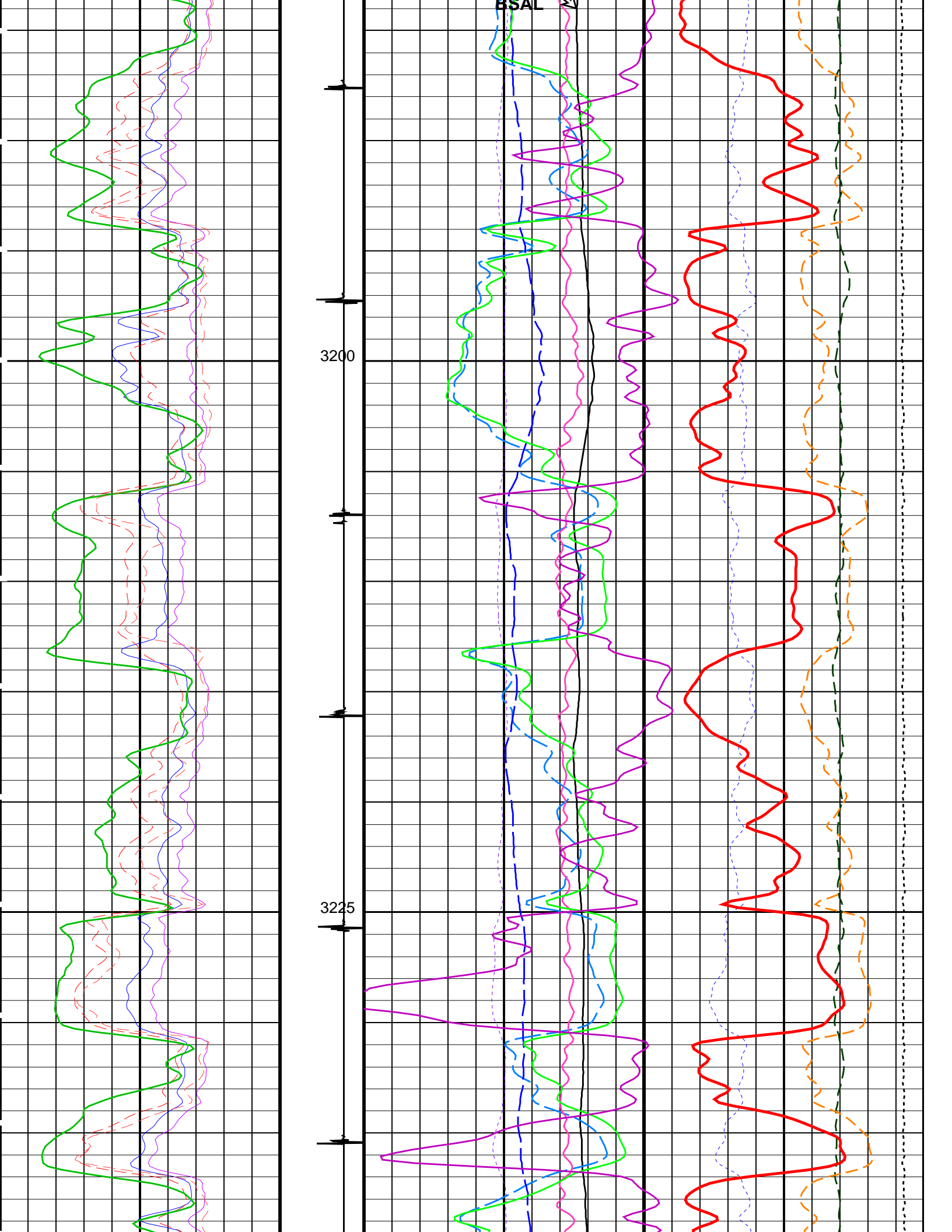


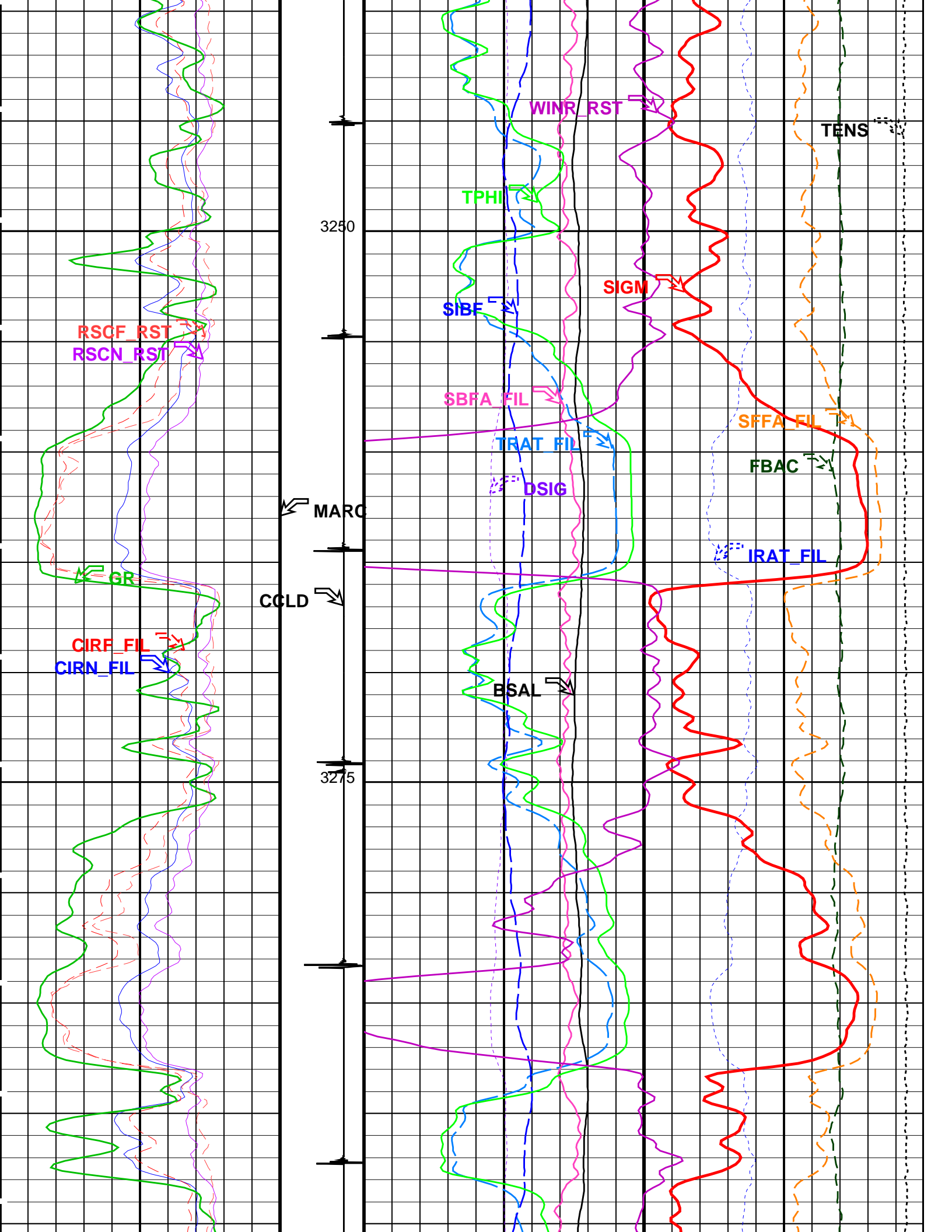


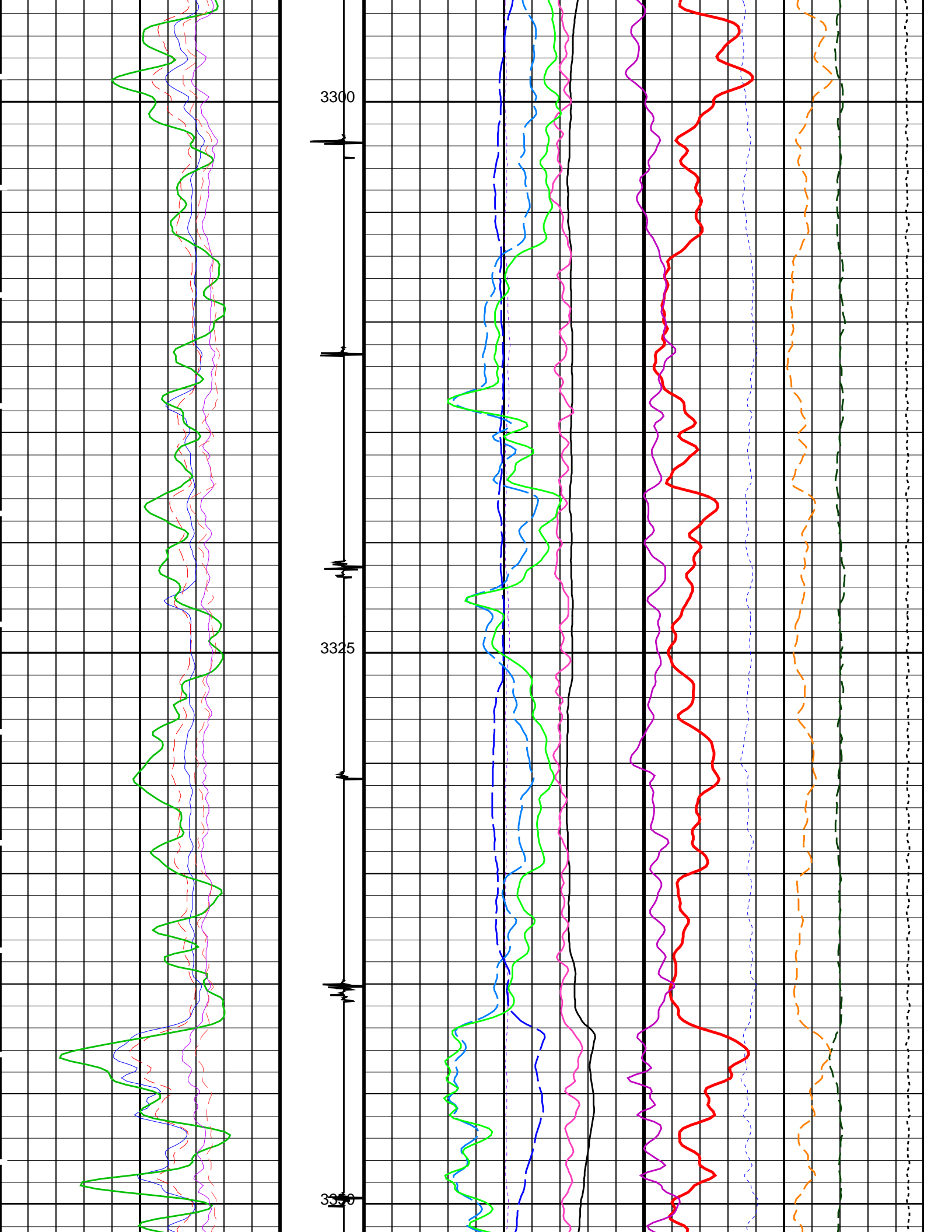




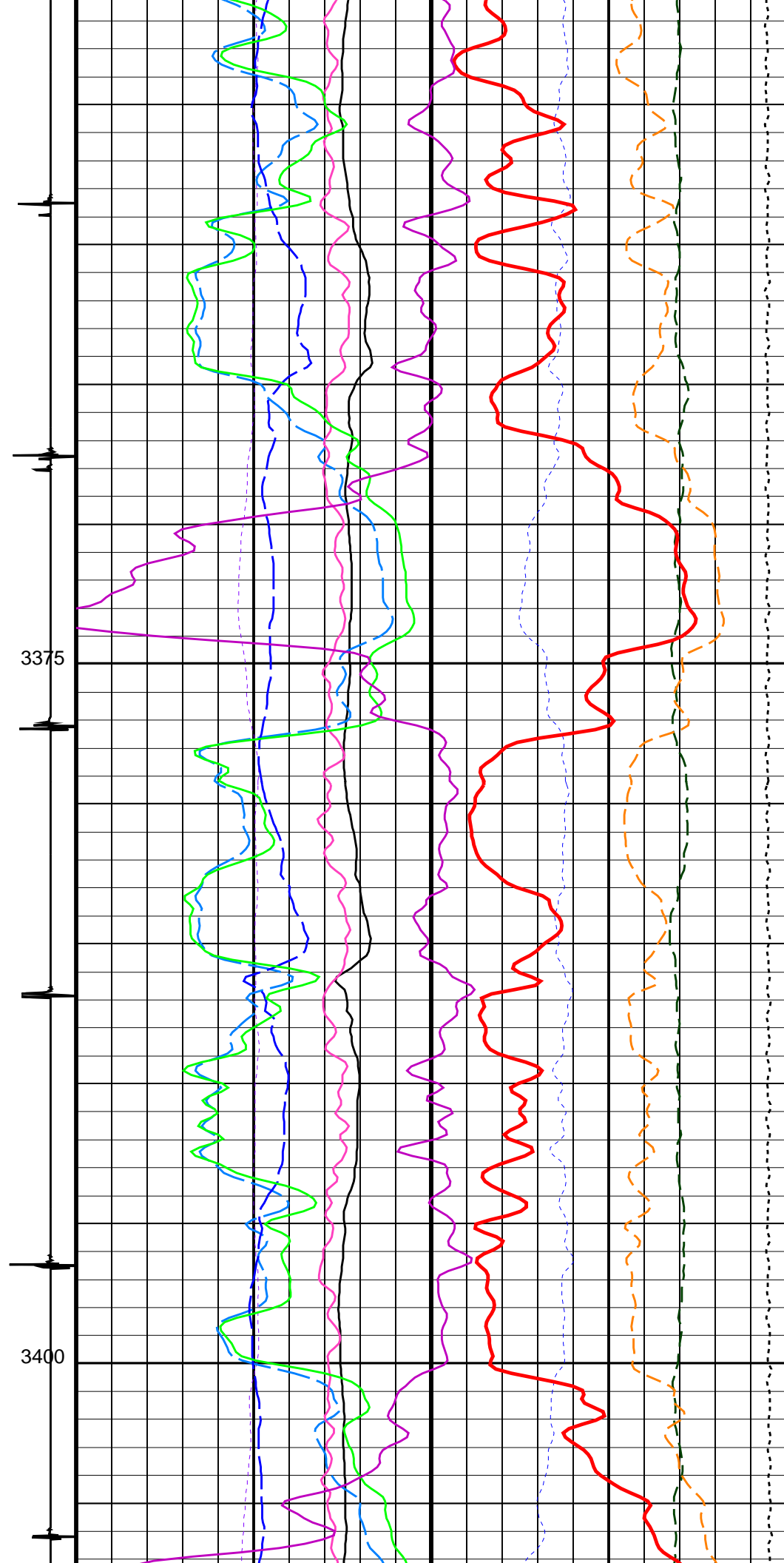
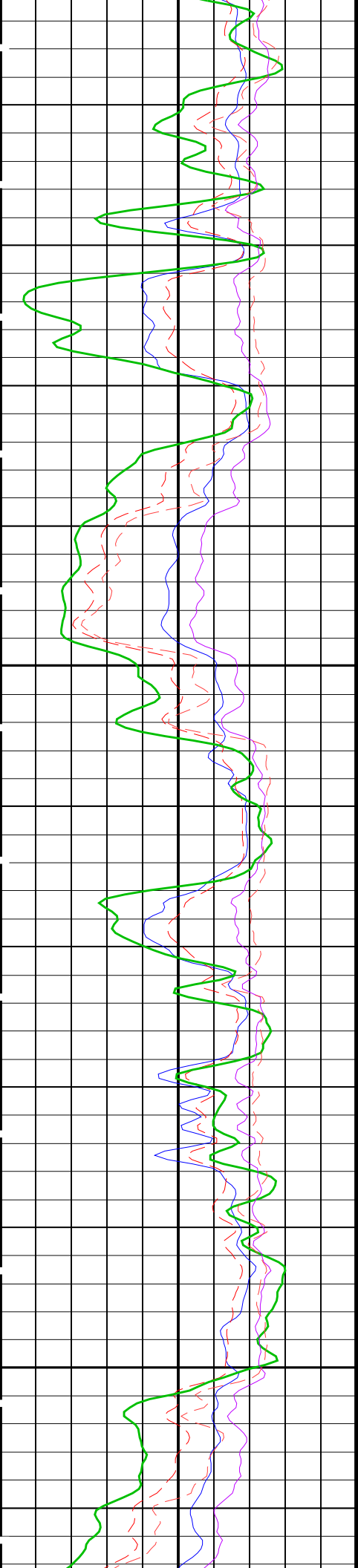


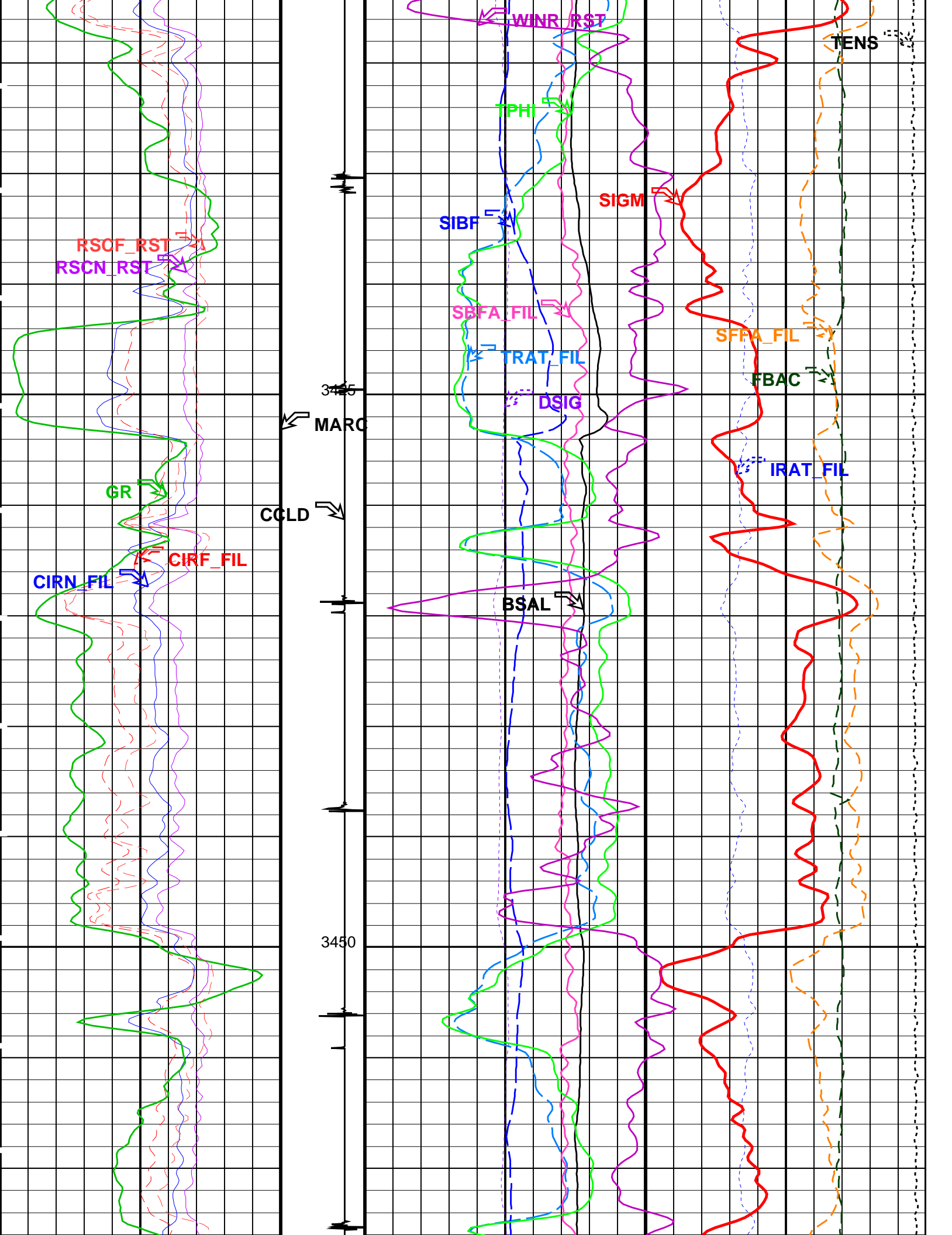


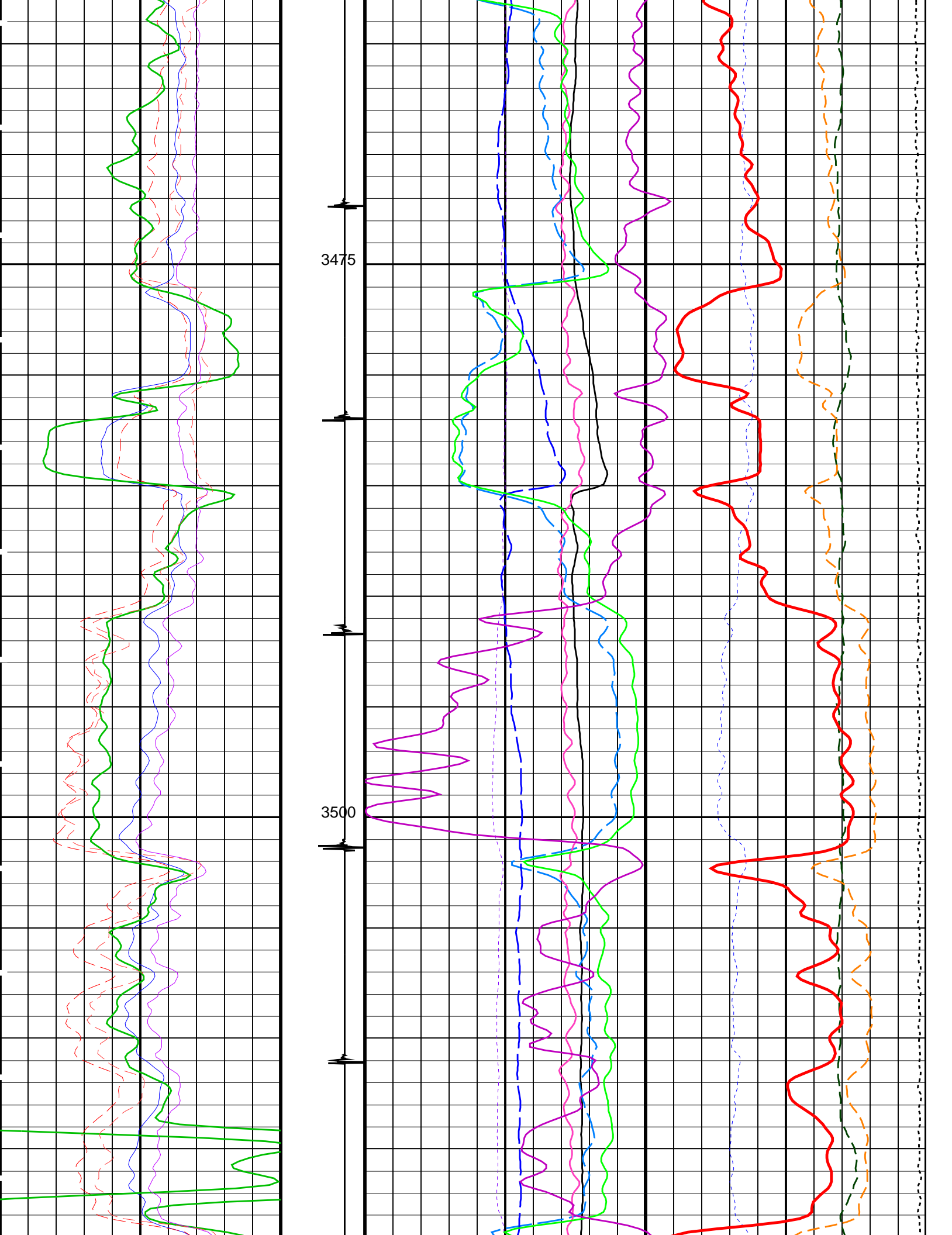


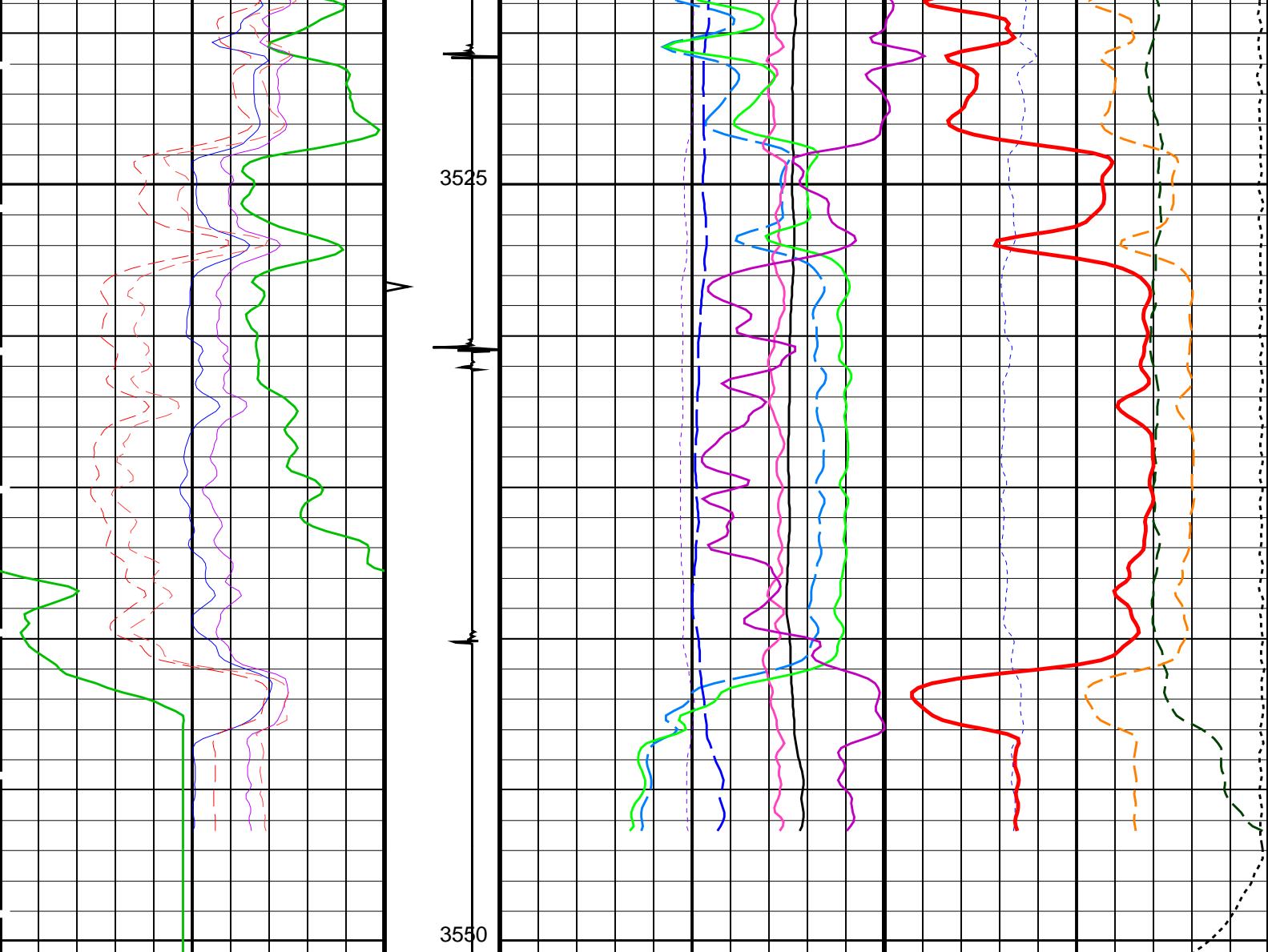






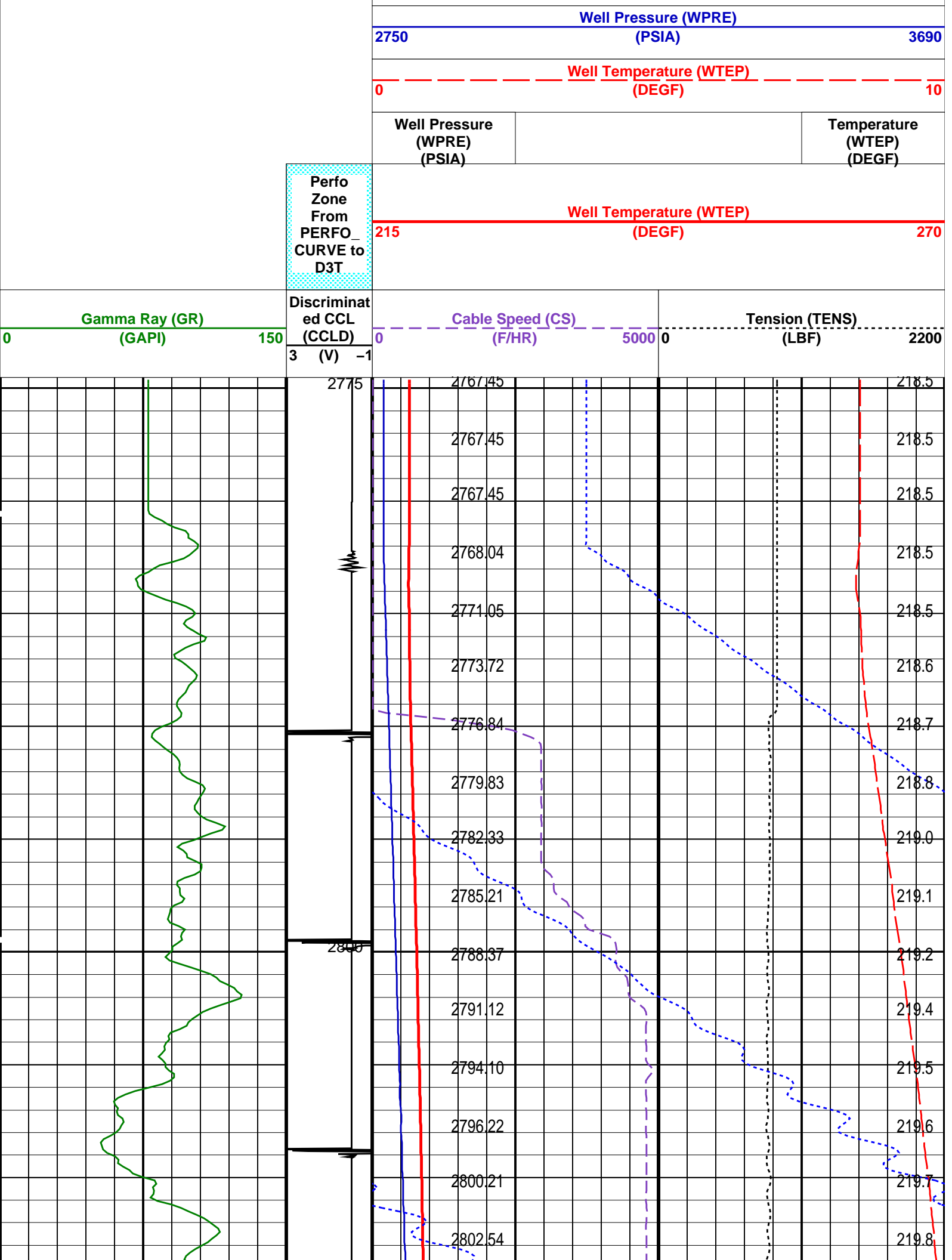


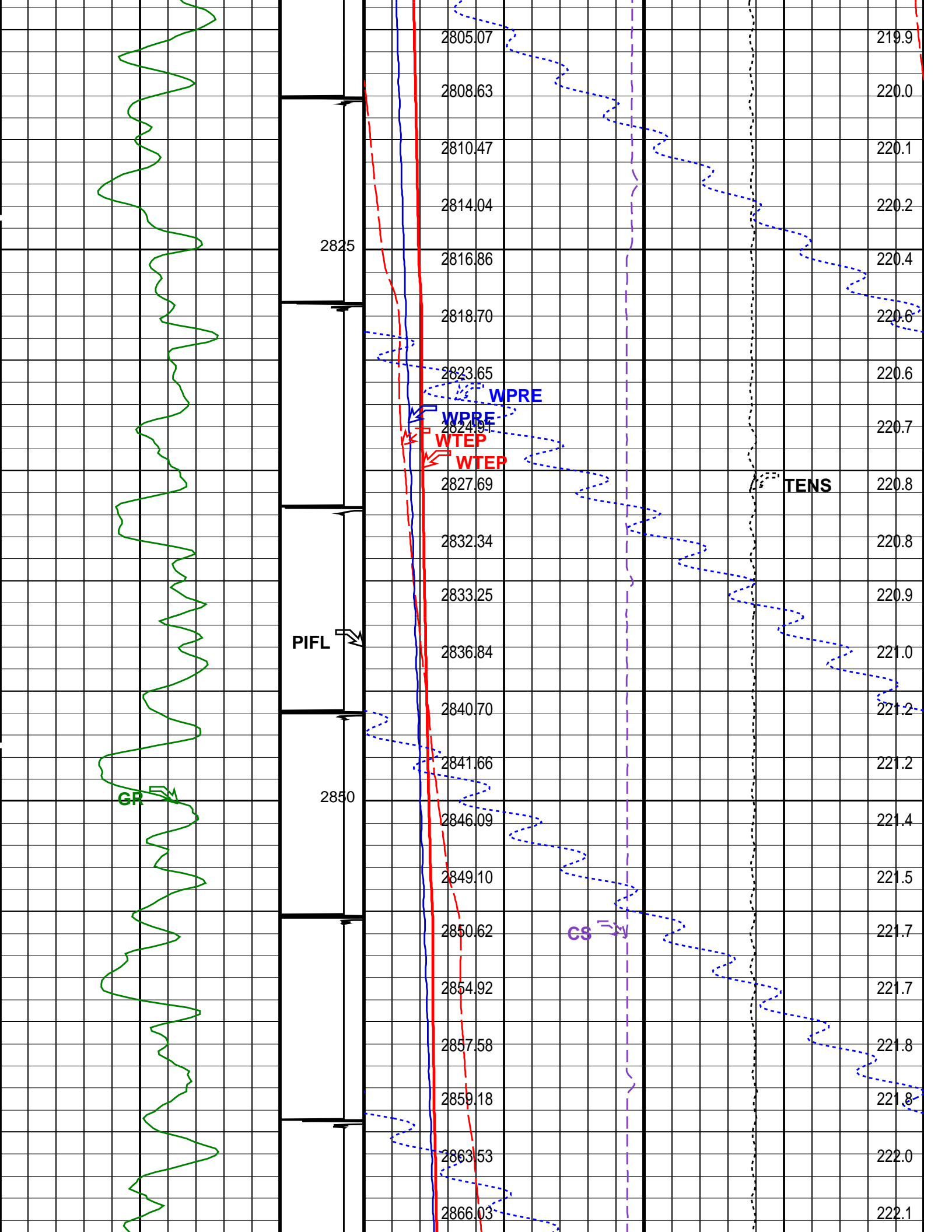


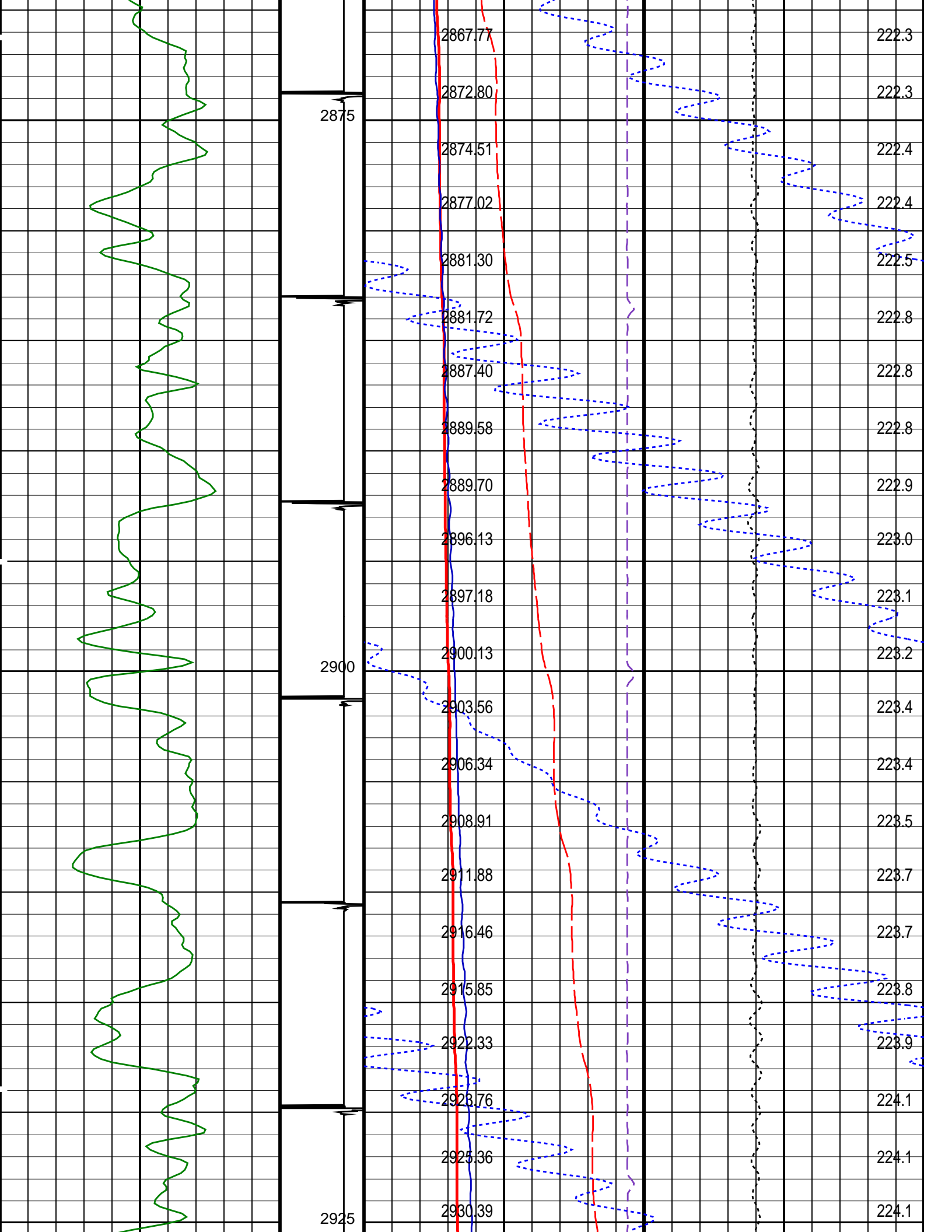


<div>Gamma Ray (GR) (GAPI)</div> <div>0150</div>	<div>Discriminat ed CCL (CCLD) (V)</div> <div>3-1</div>	<div>RST Borehole Salinity (BSAL) (PPK)</div> <div>450-50</div>	<div>RST Inelastic Ratio (IRAT_FIL) (----</div> <div>0.750</div>
<div>RST Capture to Inelastic Ratio Near (CIRN_FIL) (----</div> <div>2.50</div>		<div>RST Sigma Difference (DSIG) (CU)</div> <div>-3030</div>	<div>MCS Far Background (filtered) (FBAC) (CPS)</div> <div>05000</div>
<div>RST Capture to Inelastic Ratio Far (CIRF_FIL) (----</div> <div>50</div>		<div>RST Capture Ratio (TRAT_FIL) (----</div> <div>1.50.5</div>	<div>Sigma Formation Far Apparent (SFFA_FIL) (CU)</div> <div>600</div>
<div>RST Near Effective Capture CR (RSCN_RST) (----</div> <div>450</div>		<div>Sigma Borehole Far Apparent (SBFA_FIL) (CU)</div> <div>1500</div>	<div>Tension (TENS) (LBF)</div> <div>02200</div>
<div>RST Far Effective Capture CR (RSCF_RST) (----</div> <div>450</div>		<div>RST Sigma Borehole Fluid (SIBF) (CU)</div> <div>1000</div>	
		<div>RST Porosity (TPHI) (V/V)</div> <div>0.60</div>	
		<div>RST Weighted Inelastic Ratio (WINR_RST) (----</div> <div>0.3-0.3</div>	
		<div>RST Sigma (SIGM) (CU)</div> <div>600</div>	

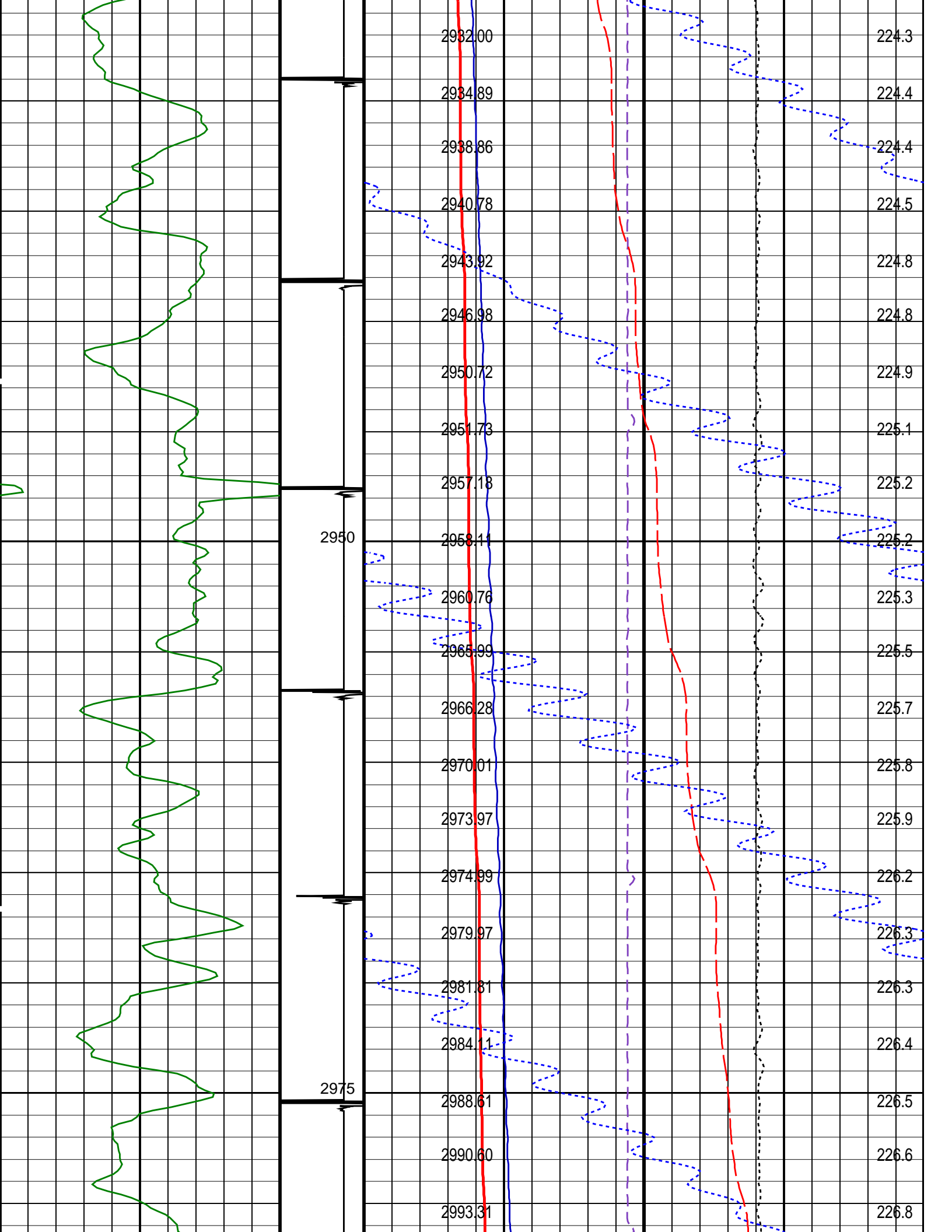
		PIP SUMMARY			
Time Mark Every 60 S					
Parameters					
DLIS Name	Description	Value			
RST-C: Reservoir Saturation Pro Tool C					
AIRB	RST Air Borehole	No			
BHS	Borehole Status	CASED			
BSALOPT	RST Borehole Salinity Option	Unknown			
BSFL	RST Borehole Salinity Filter Length	51			
DFPC	RST Depth Filter 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-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	4.500	IN		
CWEI	Casing Weight	13.50	LB/F		
Format: RST_SIG_ANSW		Vertical Scale: 1:200		Graphics File Created: 25-Jun-2009 20:18	
OP System Version: 16C0-147					
MCM					
RST-C	SRPC-3777-Q4_2008_OP16	PSPT-B	SRPC-3777-Q4_2008_OP16		
Output DLIS Files					
DEFAULT	RST_PSP_034LUP	FN:31	PRODUCER	25-Jun-2009 20:18	
<div><div><div><div><div><div></div><div>Schlumberger</div></div></div><div><div>Baseline GR Pass</div><div>2800 – 3540m MDKB</div></div></div></div><div>MAXIS Field Log</div></div>					
Company: Esso Australia Pty Ltd.					
Well: A22A					
Input DLIS Files					
DEFAULT	FLIP_RST_PSP_036	PRODUCER	25-Jun-2009 23:06	3549.9 M	2780.2 M
Output DLIS Files					
DEFAULT	RST_PSP_037PUP	FN:33	PRODUCER	25-Jun-2009 23:07	3549.5 M 2774.4 M
OP System Version: 16C0-147					
MCM					
RST-C	SRPC-3777-Q4_2008_OP16	PSPT-B	SRPC-3777-Q4_2008_OP16		
PIP SUMMARY					
Time Mark Every 60 S					
		<div><div>Amplified Well Pressure (WPRES)</div><div>0 (PSIA) 20</div></div>			

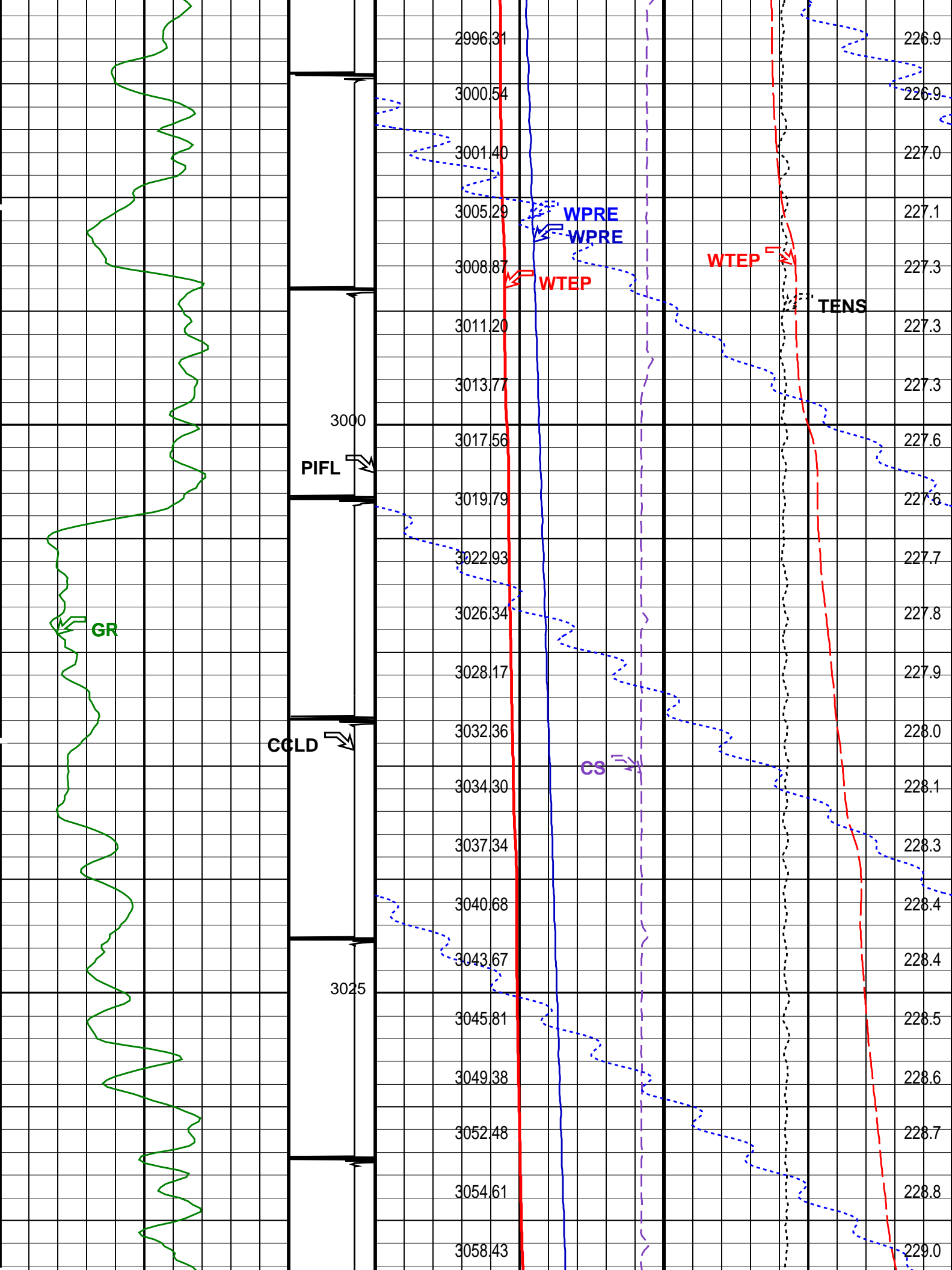


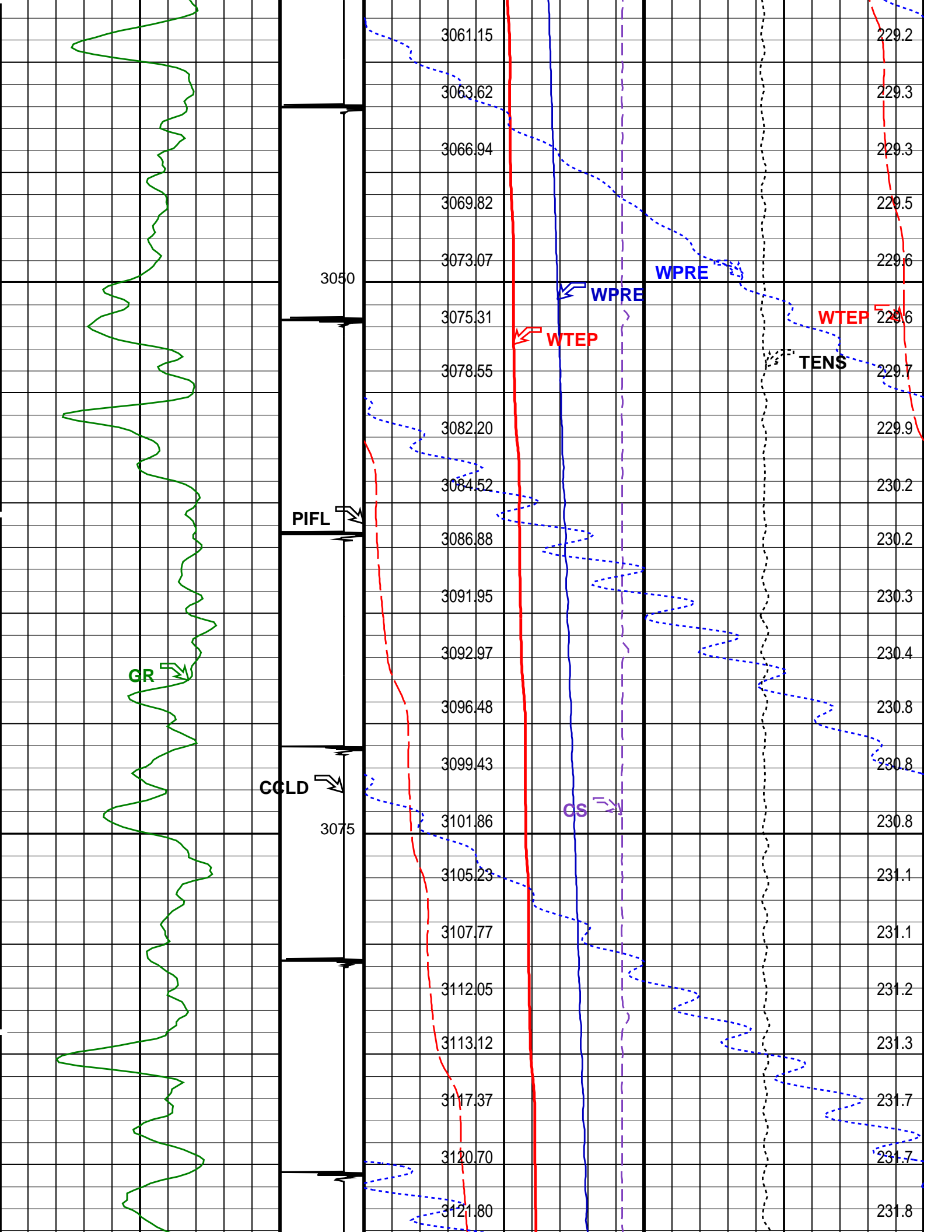


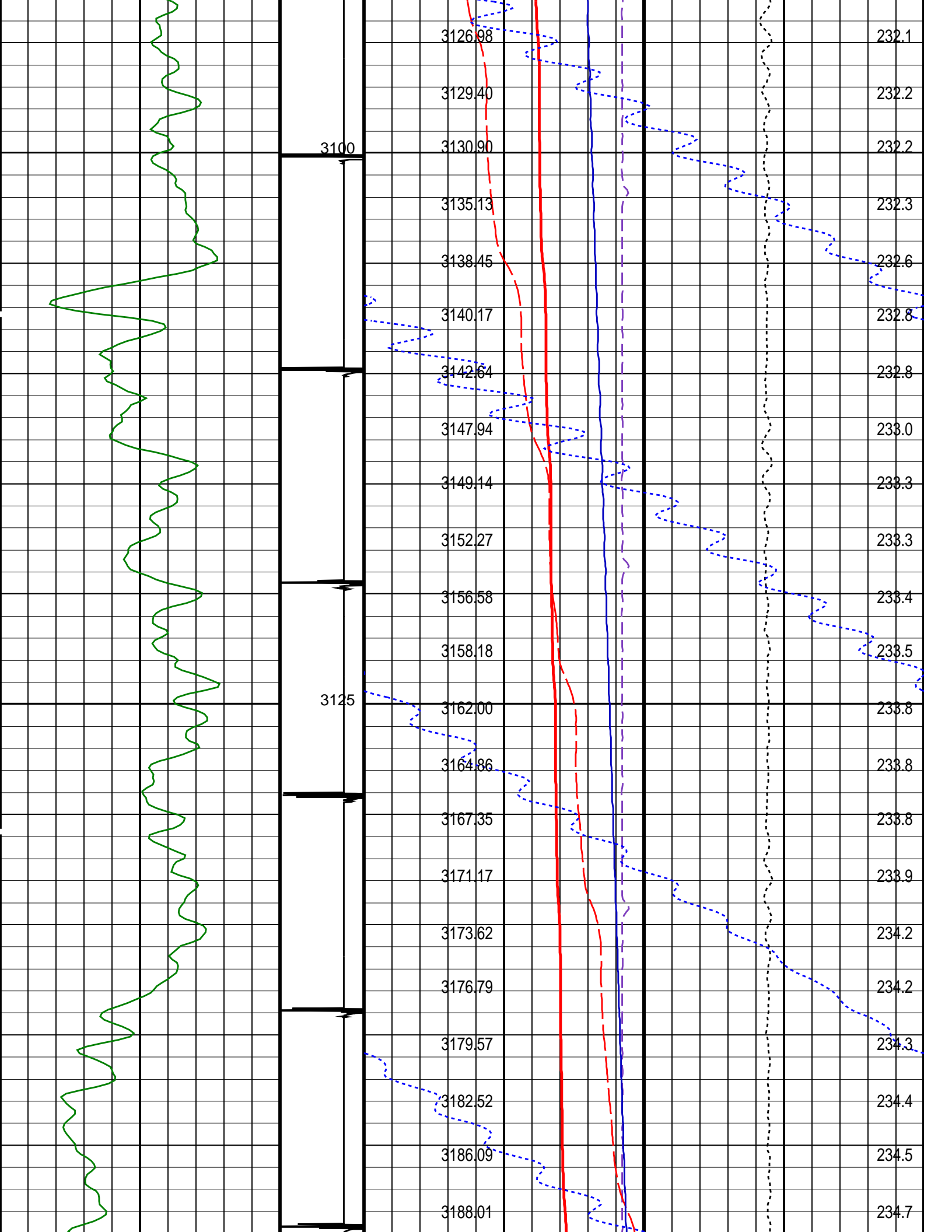


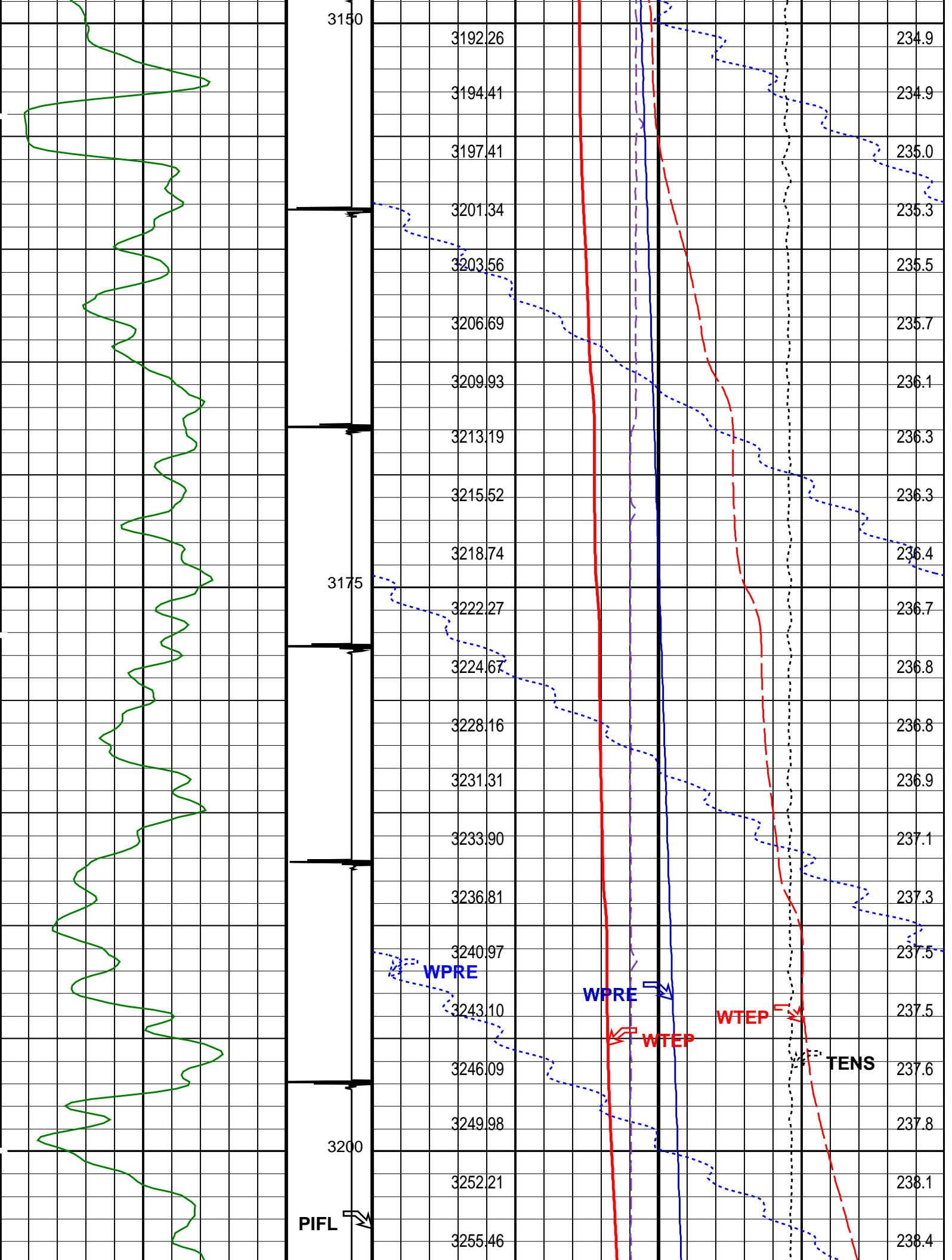


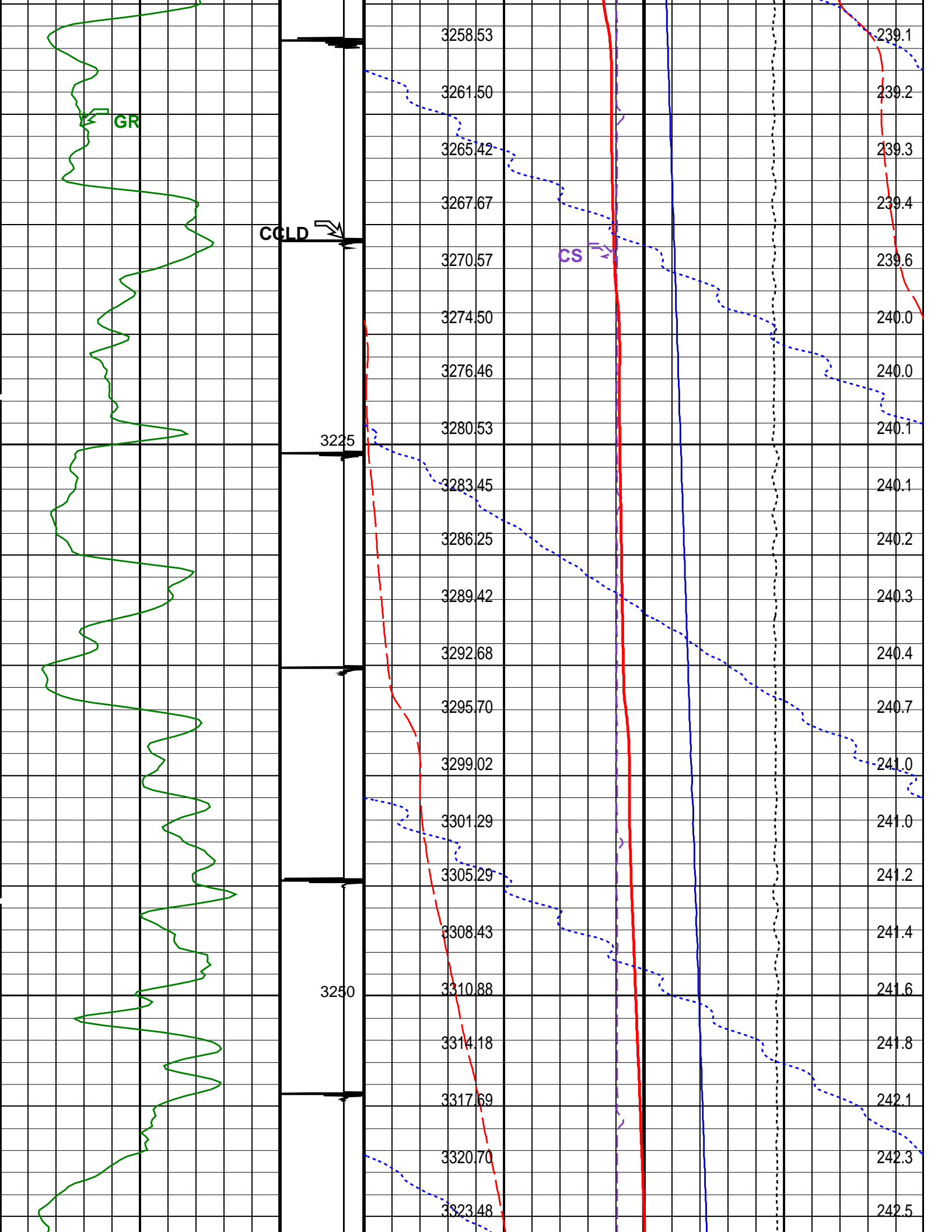


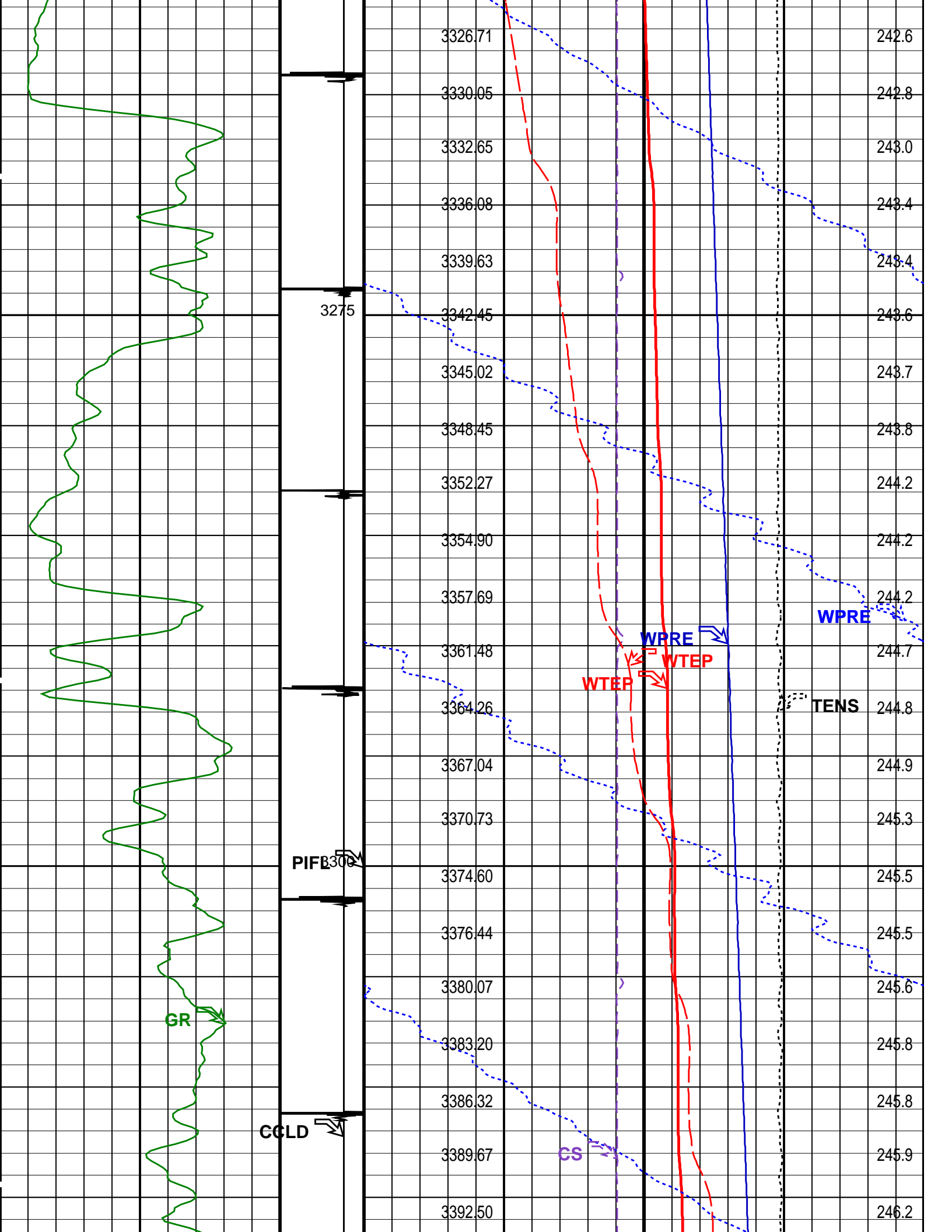


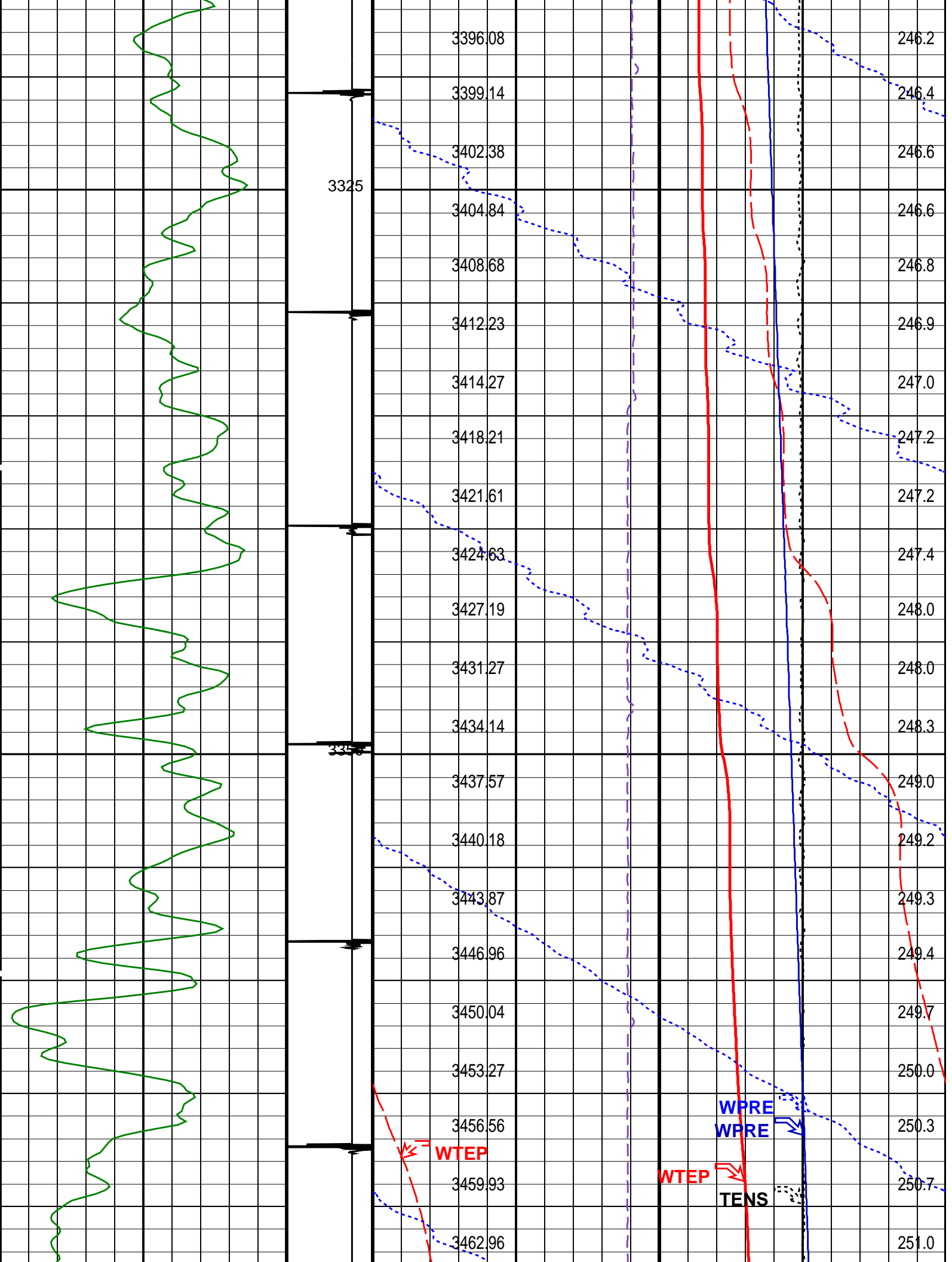




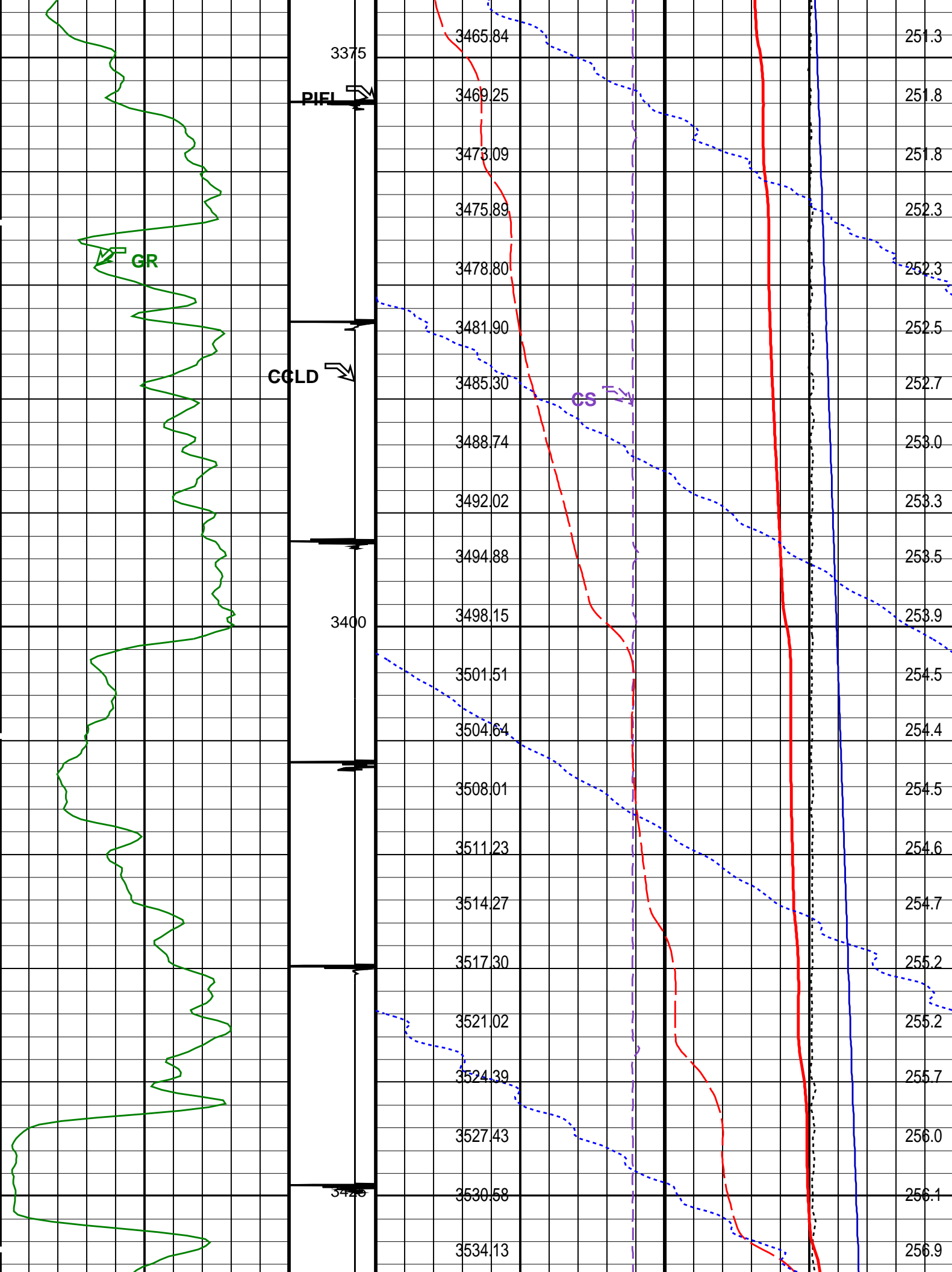


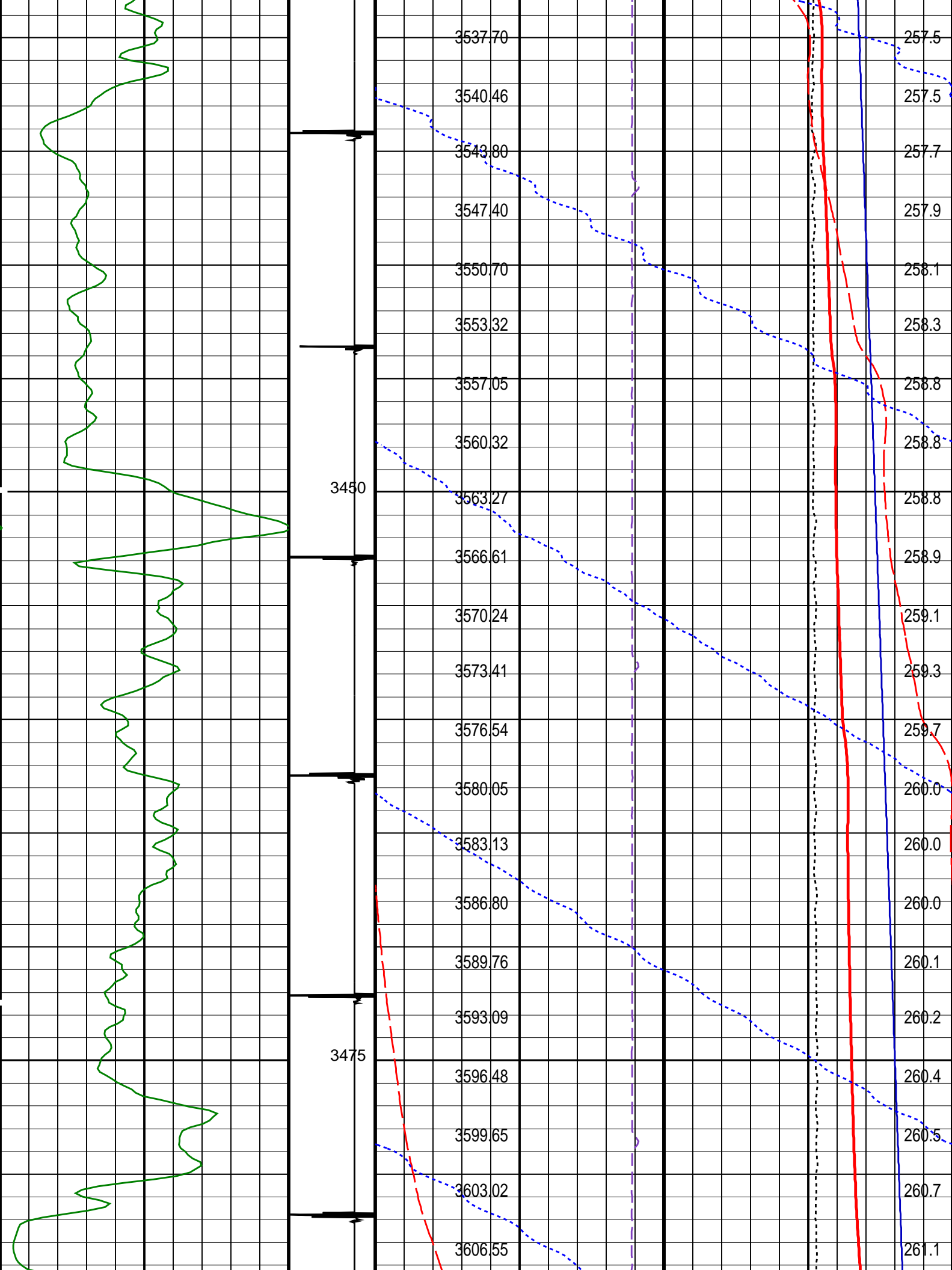


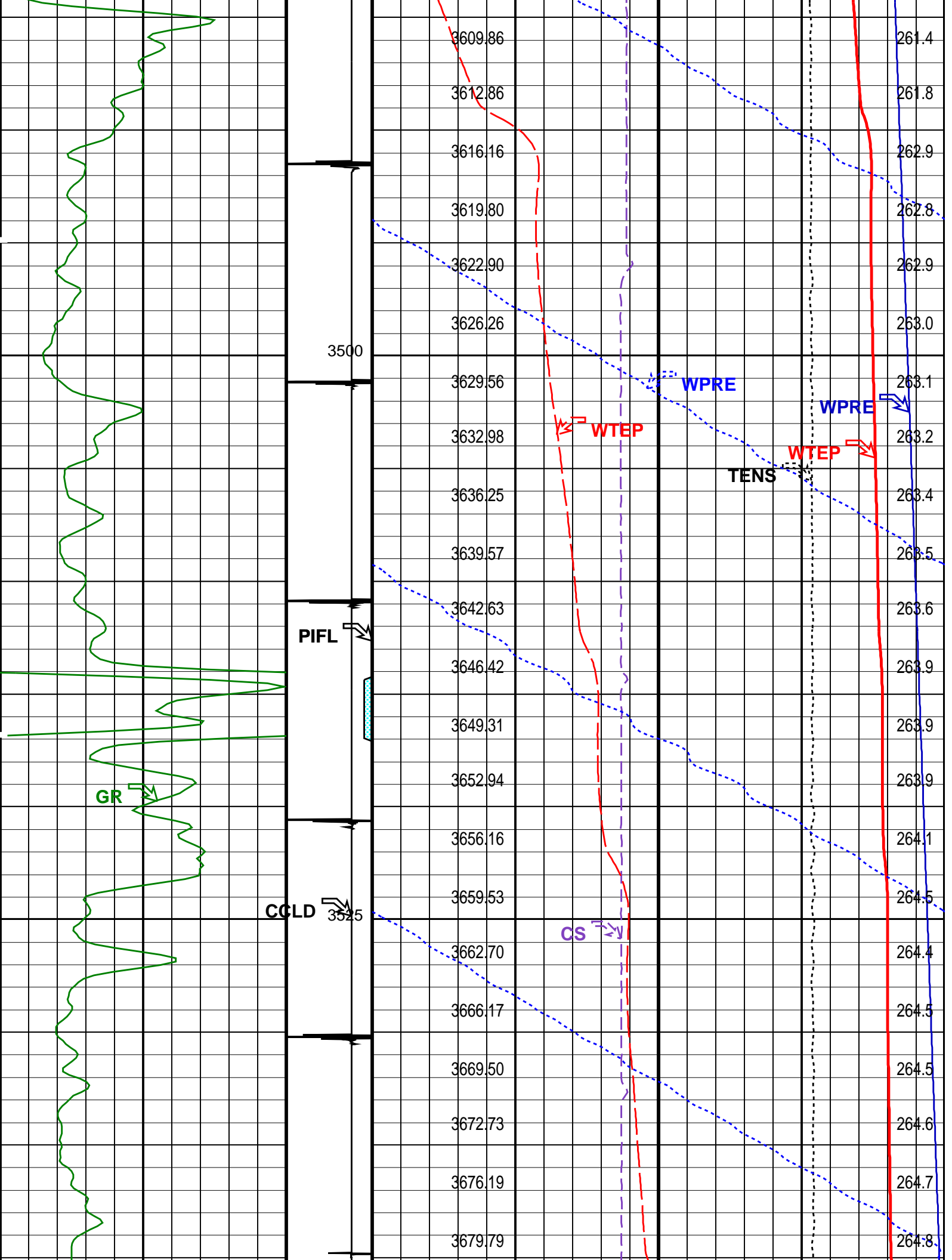














Company: Esso Australia Pty Ltd.

Well: A22A

## Input DLIS Files

DEFAULT	RST_PSP_013LUP	FN:12	PRODUCER	25-Jun-2009 01:10	2198.8 M	1954.4 M
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## Output DLIS Files

DEFAULT	RST_PSP_028PUP	FN:25	PRODUCER	25-Jun-2009 04:02	2199.1 M	1954.7 M
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## OP System Version: 16C0-147

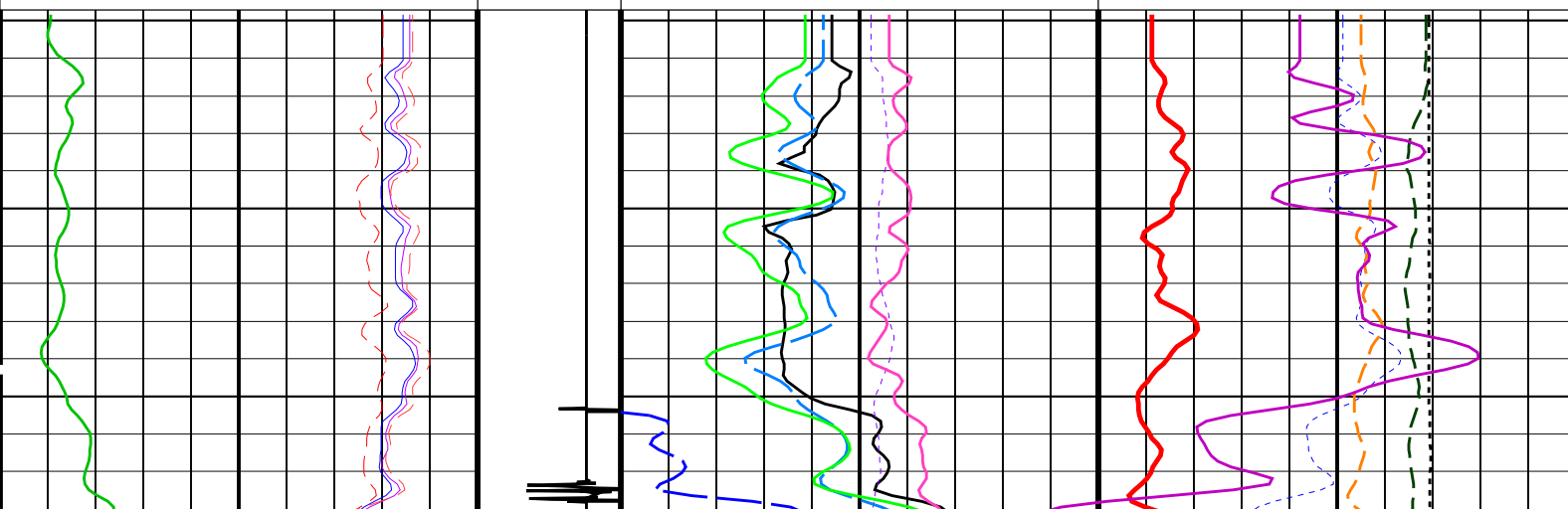
MCM

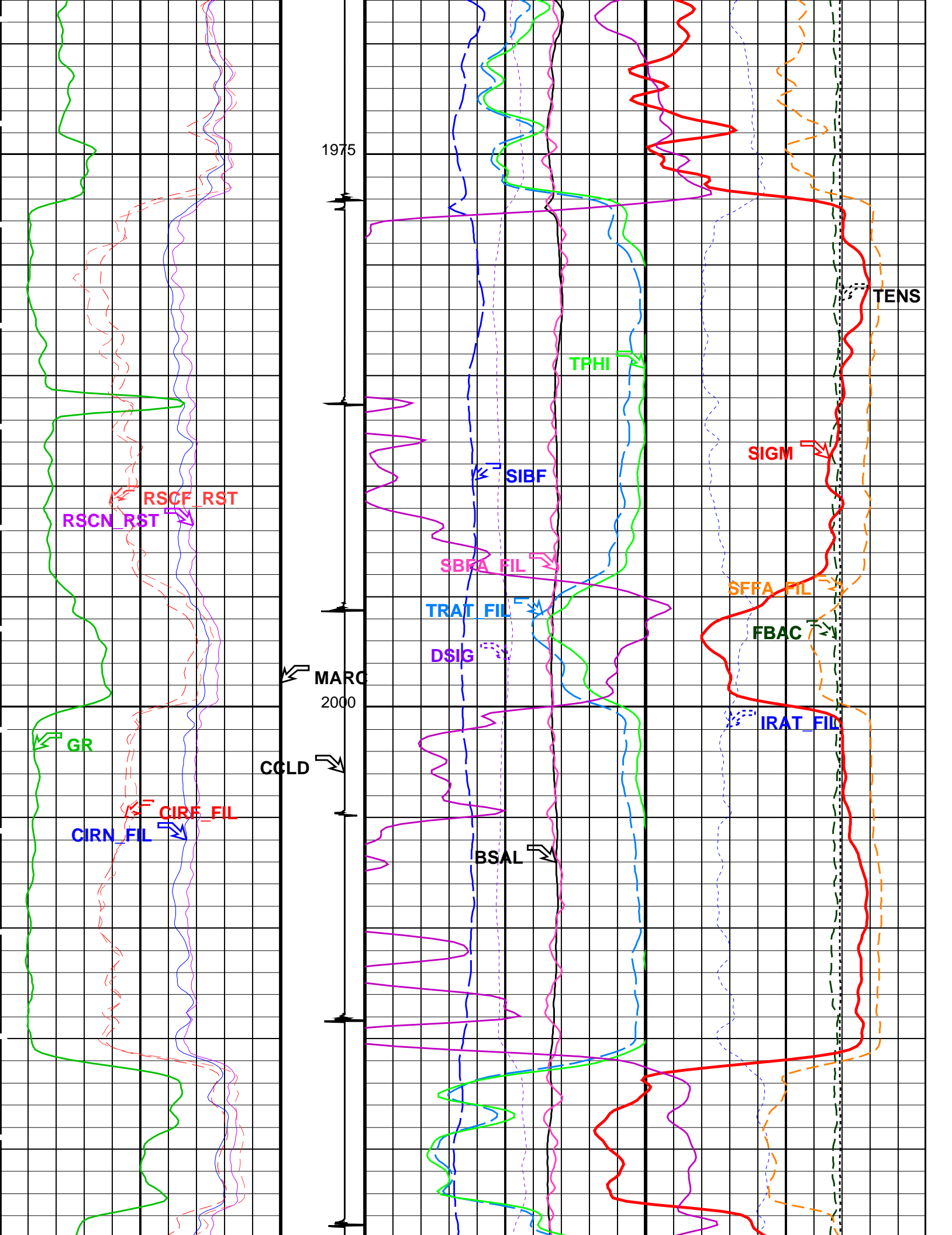
RST-C	SRPC-3777-Q4_2008_OP16	PSPT-B	SRPC-3777-Q4_2008_OP16
-------	------------------------	--------	------------------------

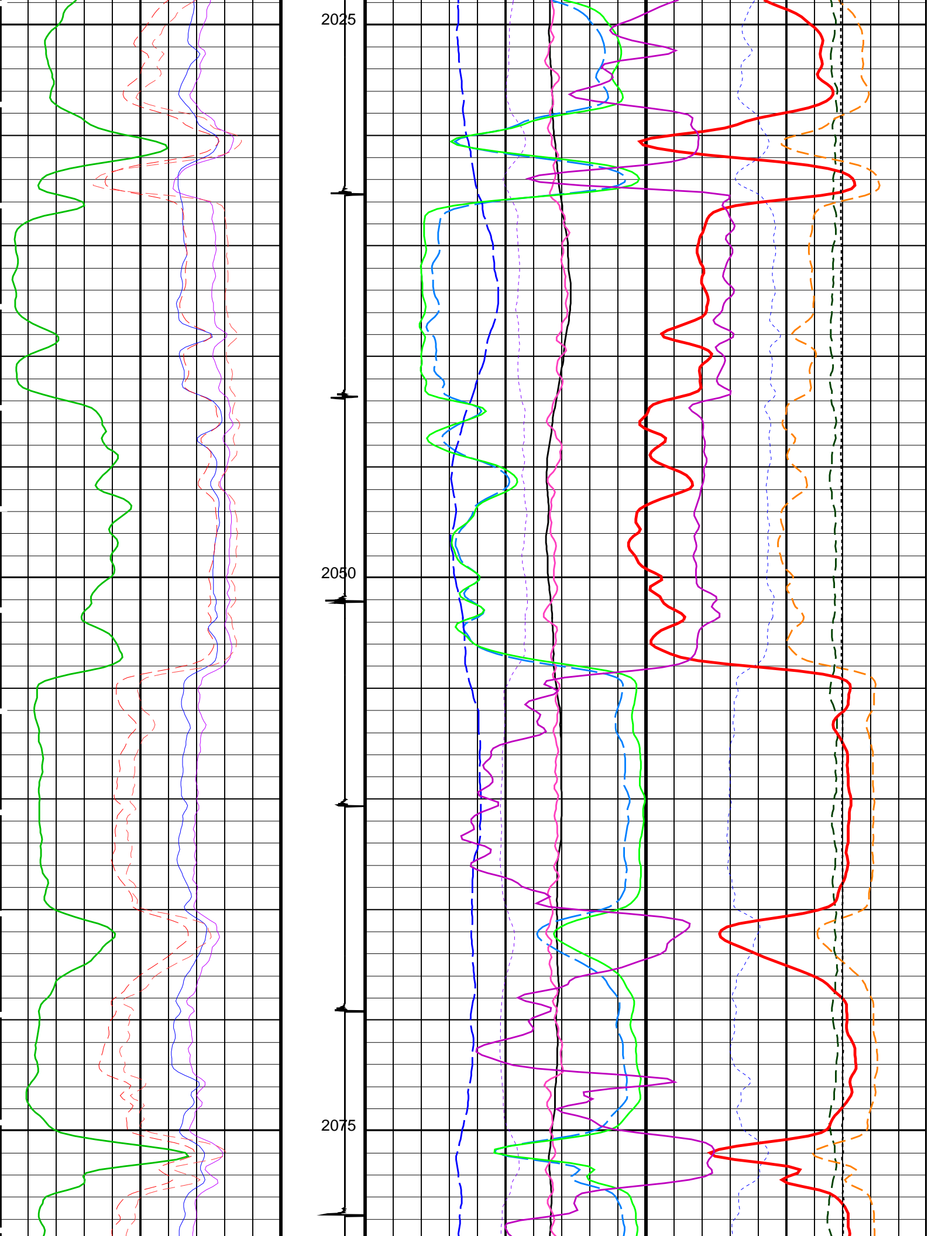
## PIP SUMMARY

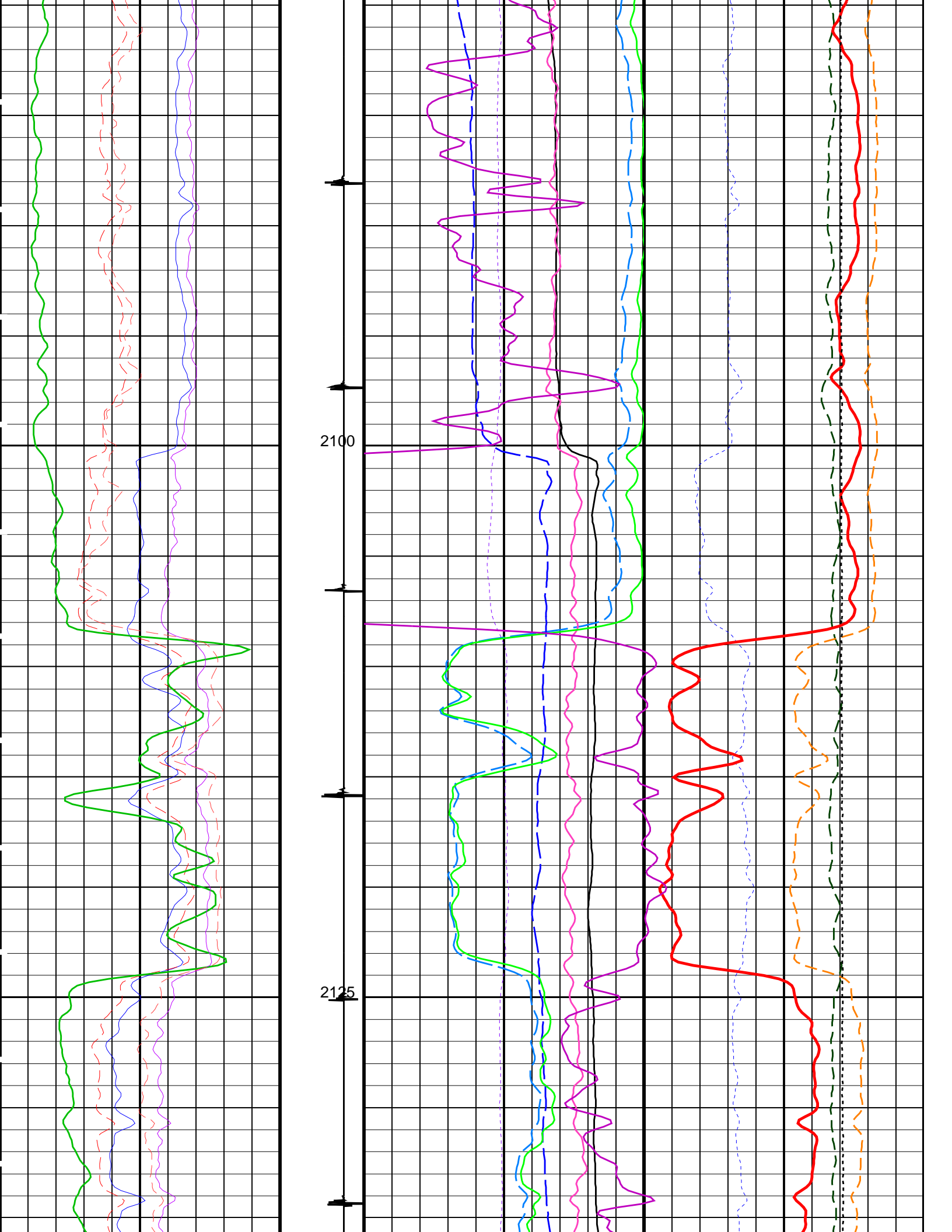
Time Mark Every 60 S

		RST Sigma (SIGM)	
60		(CU)	
		0	
		RST Weighted Inelastic Ratio (WINR_RST)	
0.3		(-----)	
		-0.3	
		RST Porosity (TPHI)	
0.6		(V/V)	
		0	
RST Far Effective Capture CR (RSCF_RST)		RST Sigma Borehole Fluid (SIBF)	
45		100	
(-----)		(CU)	
		0	
RST Near Effective Capture CR (RSCN_RST)		Sigma Borehole Far Apparent (SBFA_FIL)	
45		150	
(-----)		(CU)	
		0	
		Tension (TENS)	
		0	
		(LBF)	
		3000	
RST Capture to Inelastic Ratio Far (CIRF_FIL)		RST Capture Ratio (TRAT_FIL)	
5		1.5	
(-----)		(-----)	
		0.5	
		Sigma Formation Far Apparent (SFFA_FIL)	
		60	
		(CU)	
		0	
RST Capture to Inelastic Ratio Near (CIRN_FIL)		RST Sigma Difference (DSIG)	
2.5		-30	
(-----)		(CU)	
		30	
		MCS Far Background (filtered) (FBAC)	
		0	
		(CPS)	
		5000	
		Gamma Ray (GR)	
0		150	
(GAPI)			
		RST Borehole Salinity (BSAL)	
		450	
		(PPK)	
		-50	
		RST Inelastic Ratio (IRAT_FIL)	
		0.75	
		(-----)	
		0	

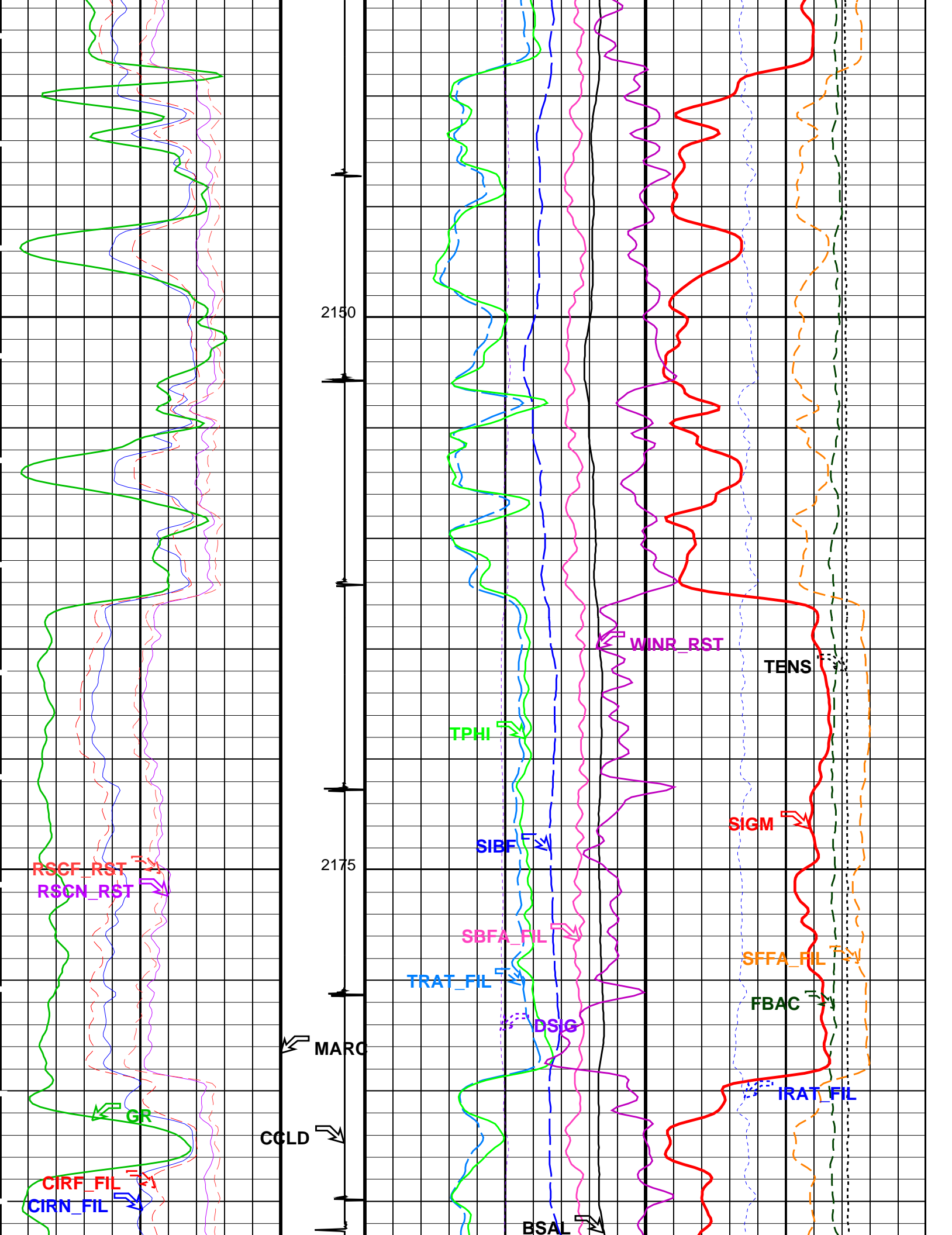


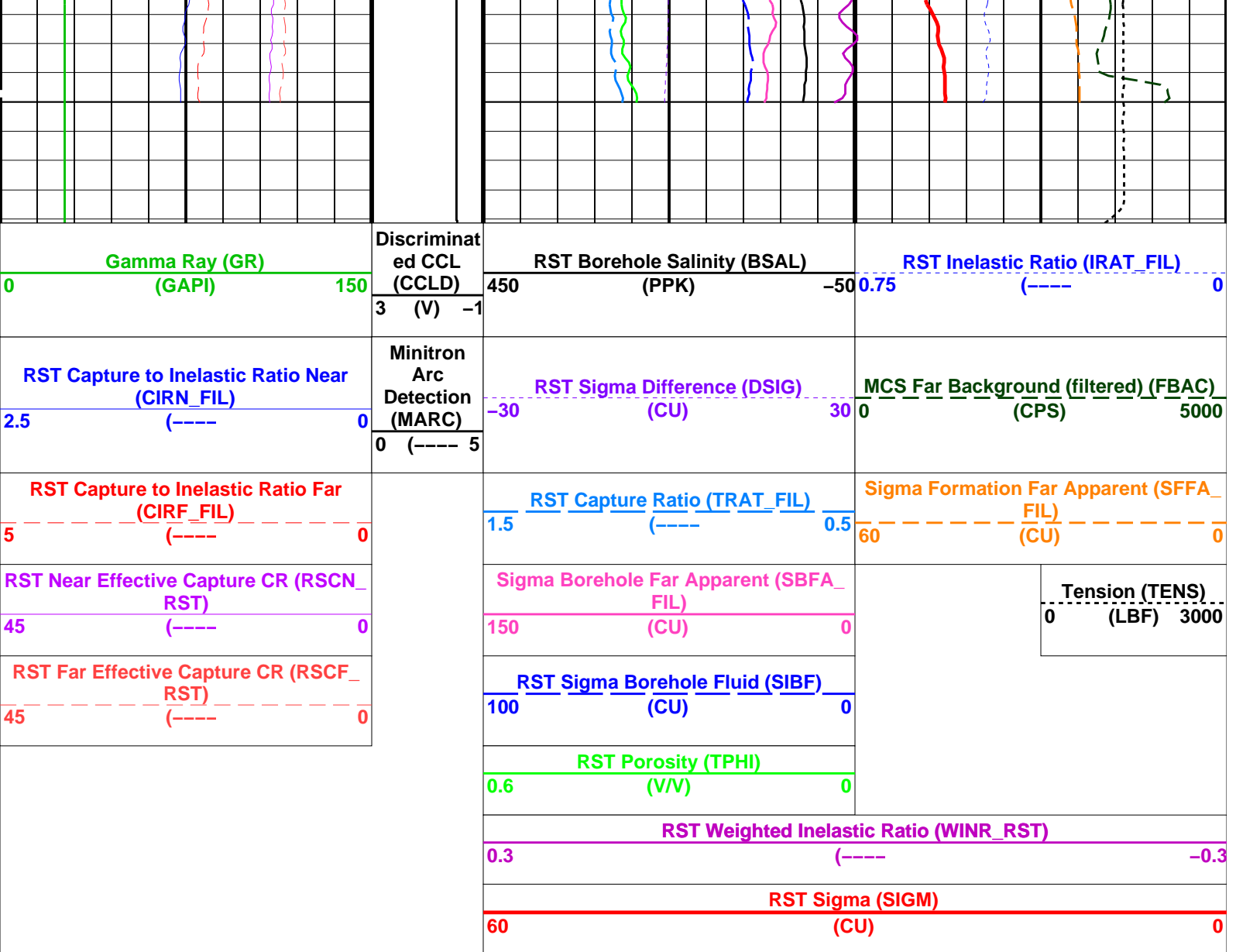













# PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
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
RGAI	Near/Far Gain Calibration Ratio	1
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma
PSPT-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	4.500 IN
CWEI	Casing Weight	13.50 LB/F
DO	Depth Offset for Playback	0.3 M
PP	Playback Processing	RECOMPUTE

Format: RST\_SIG\_ANSW Vertical Scale: 1:200 Graphics File Created: 25-Jun-2009 04:02

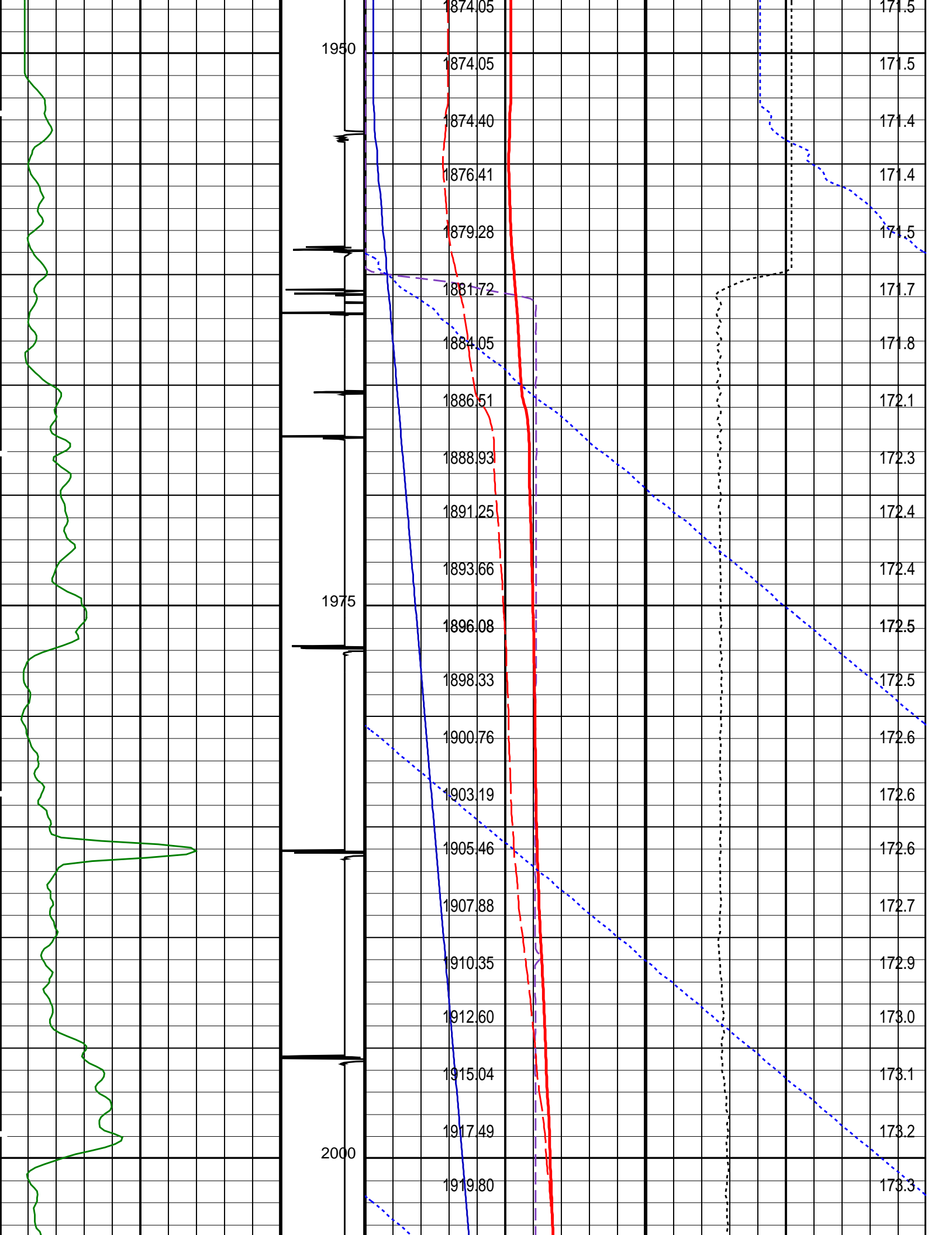
RST-C	SRPC-3777-Q4_2008_OP16	PSPT-B	SRPC-3777-Q4_2008_OP16														
<div>Input DLIS Files</div> <table><tr><td>DEFAULT</td><td>RST_PSP_013LUP</td><td>FN:12</td><td>PRODUCER</td><td>25-Jun-2009 01:10</td><td>2198.8 M</td><td>1954.4 M</td></tr></table> <div>Output DLIS Files</div> <table><tr><td>DEFAULT</td><td>RST_PSP_028PUP</td><td>FN:25</td><td>PRODUCER</td><td>25-Jun-2009 04:02</td><td></td><td></td></tr></table>				DEFAULT	RST_PSP_013LUP	FN:12	PRODUCER	25-Jun-2009 01:10	2198.8 M	1954.4 M	DEFAULT	RST_PSP_028PUP	FN:25	PRODUCER	25-Jun-2009 04:02		
DEFAULT	RST_PSP_013LUP	FN:12	PRODUCER	25-Jun-2009 01:10	2198.8 M	1954.4 M											
DEFAULT	RST_PSP_028PUP	FN:25	PRODUCER	25-Jun-2009 04:02													
<div><div></div><div><div>Baseline GR Pass</div><div>1970 – 2180m MDKB</div></div></div> <div>MAXIS Field Log</div>																	

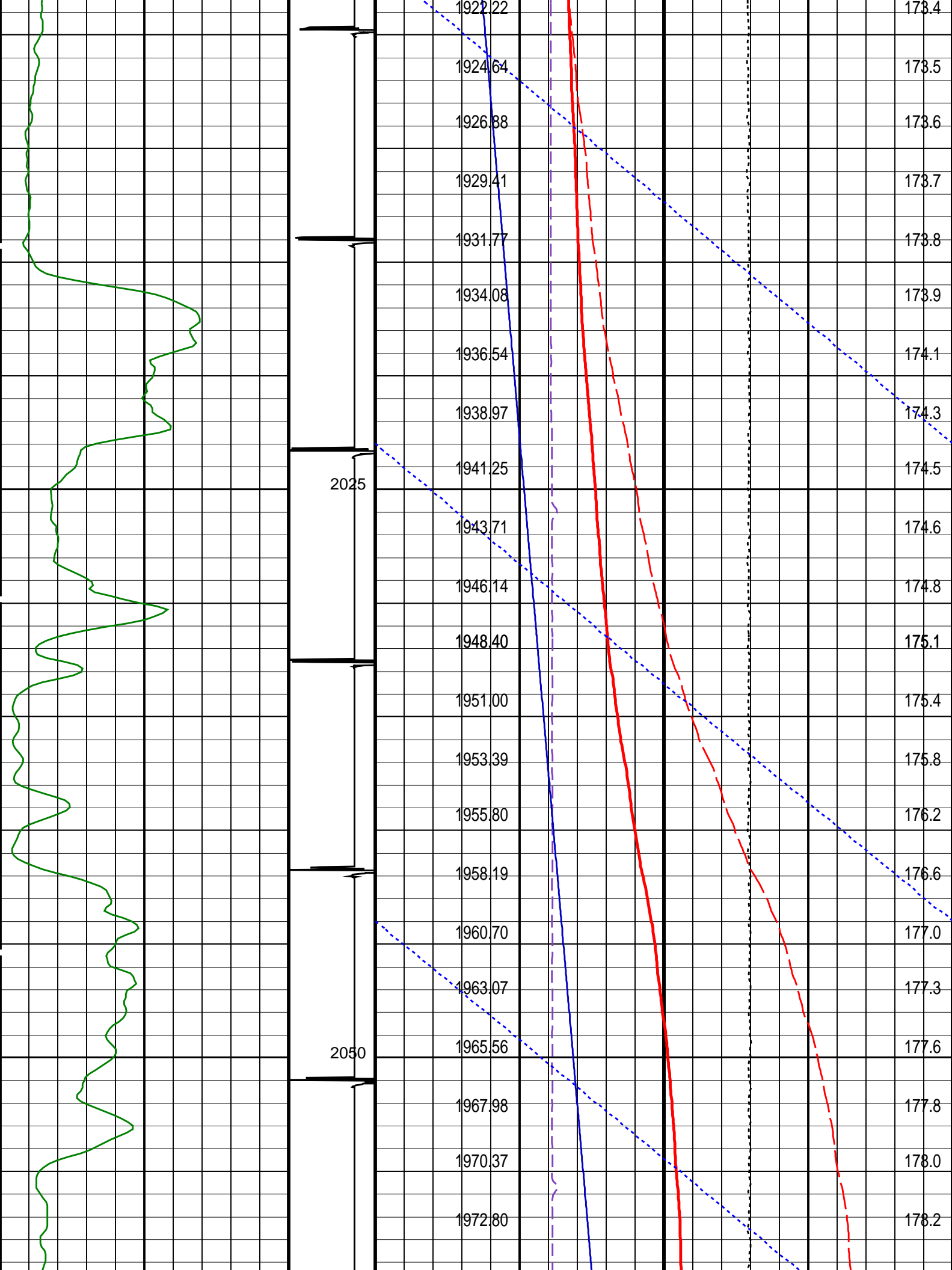
Company: Esso Australia Pty Ltd.					Well: A22A	
Input DLIS Files						
DEFAULT	FLIP_RST_PSP_017	PRODUCER	25-Jun-2009 02:41	2194.6 M	1950.4 M	
Output DLIS Files						
DEFAULT	RST_PSP_018PUP	FN:15	PRODUCER	25-Jun-2009 02:43	2194.6 M	1944.9 M
OP System Version: 16C0-147						
MCM						
RST-C	SRPC-3777-Q4_2008_OP16	PSPT-B	SRPC-3777-Q4_2008_OP16			

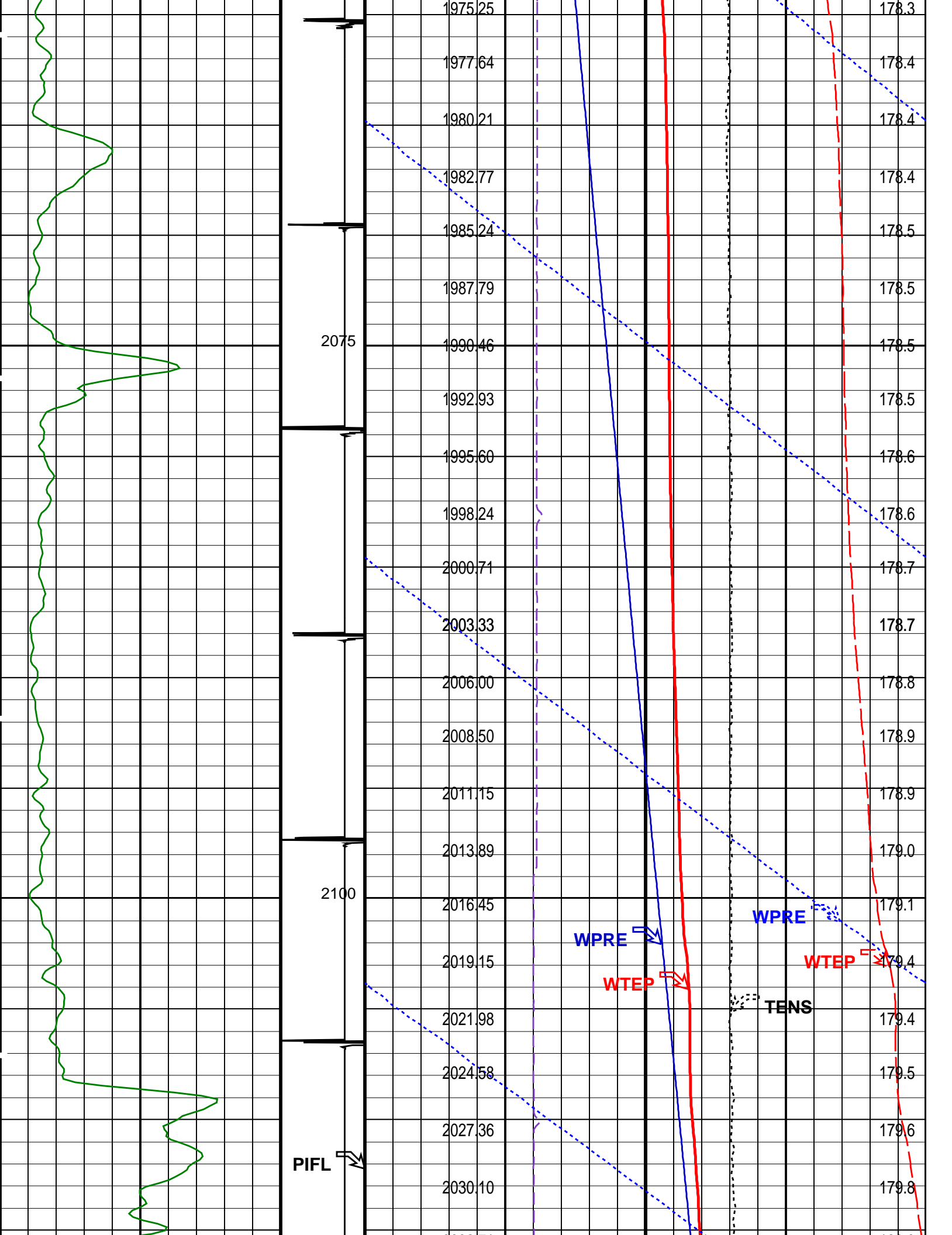
## PIP SUMMARY

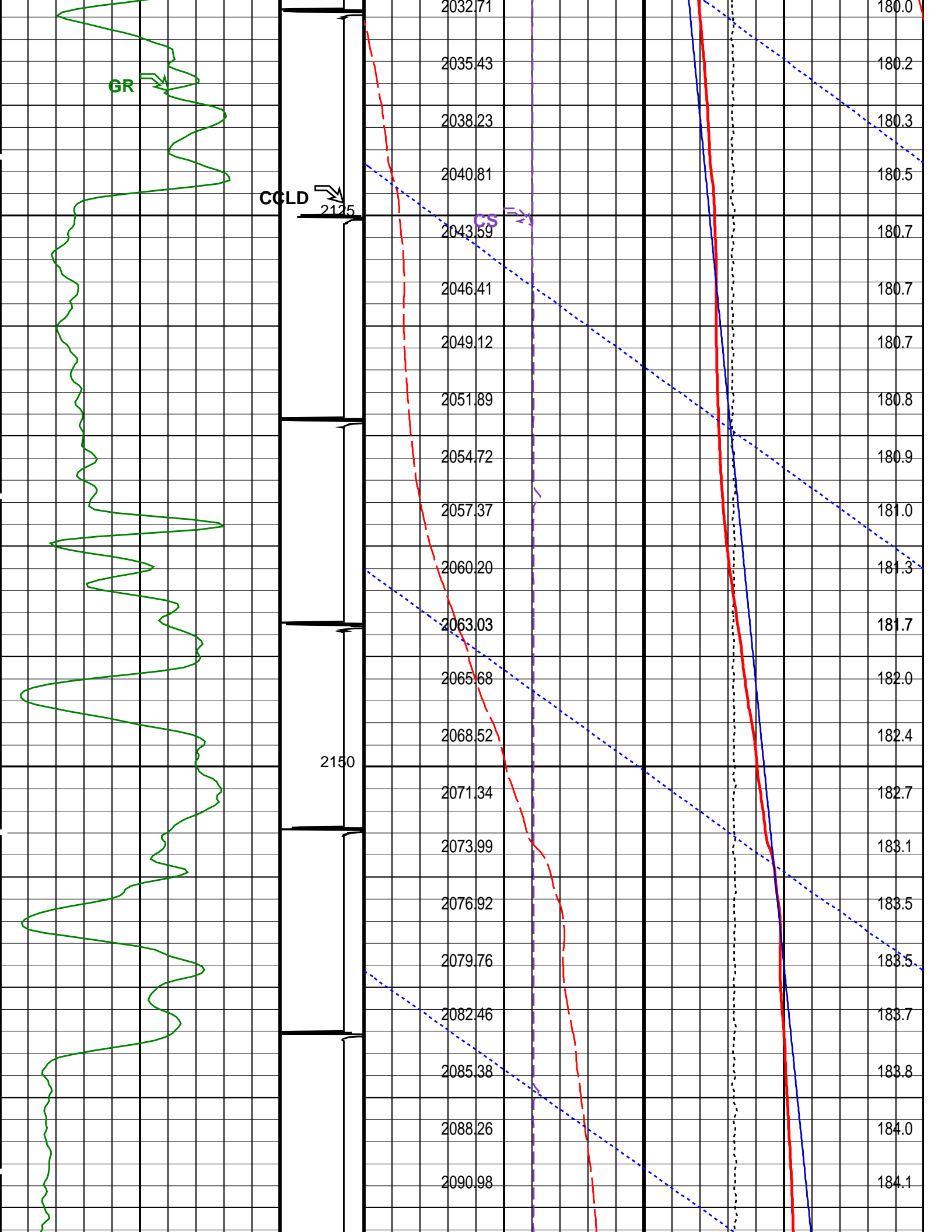
**Time Mark Every 60 S**

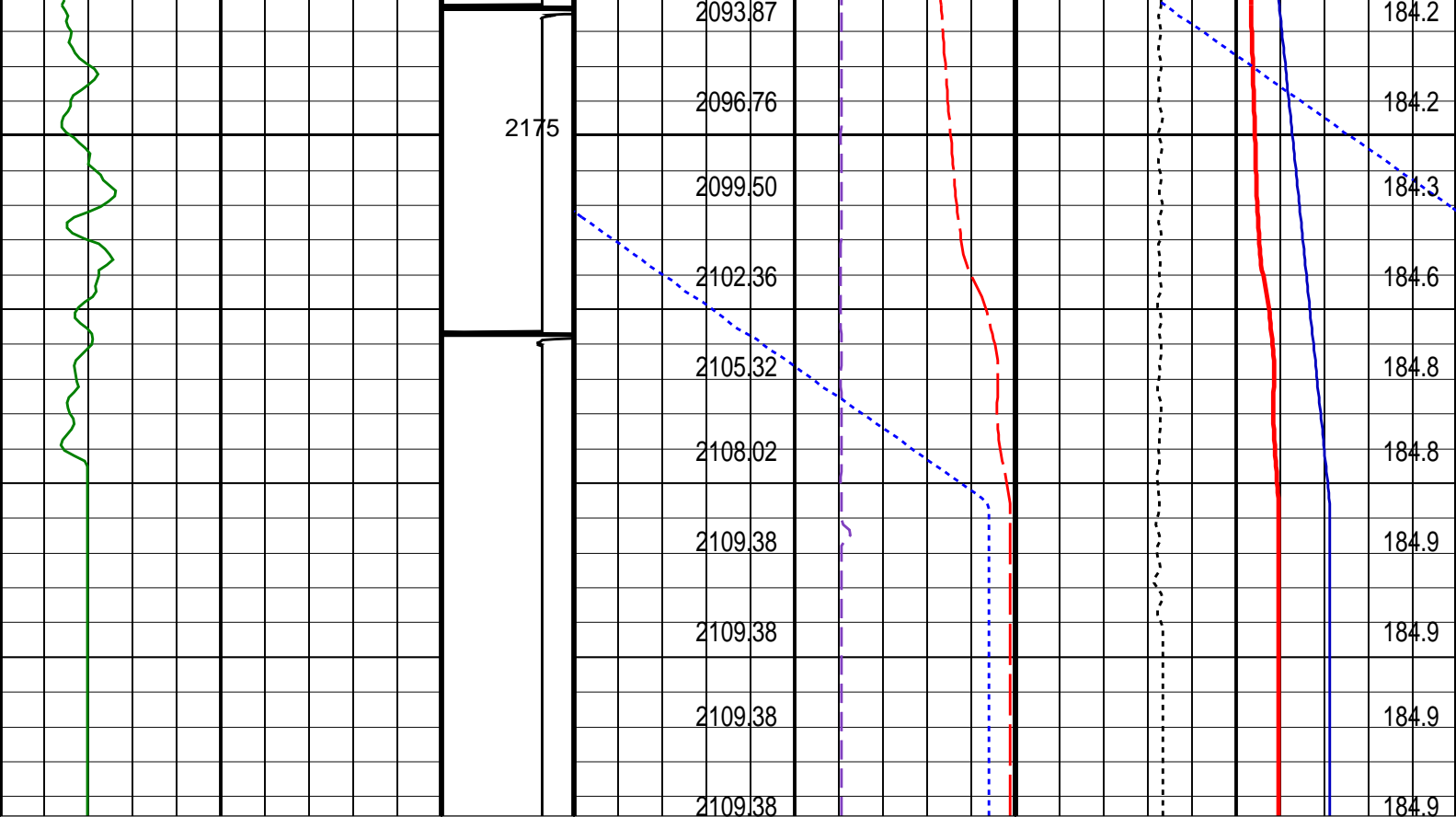
										<div> <div>0</div> <div>Amplified Well Pressure (WPRE)</div> <div>(PSIA)</div> <div>2150</div> </div>									
										<div> <div>1870</div> <div>Well Pressure (WPRE)</div> <div>(PSIA)</div> <div>2150</div> </div>									
										<div> <div>0</div> <div>Well Temperature (WTEP)</div> <div>(DEGF)</div> <div>190</div> </div>									
										<div> <div>Well Pressure (WPRE)</div> <div>(PSIA)</div> <div>Well Temperature (WTEP)</div> <div>(DEGF)</div> </div>									
										<div> <div>165</div> <div>Well Temperature (WTEP)</div> <div>(DEGF)</div> <div>190</div> </div>									
<div> <div>Gamma Ray (GR)</div> <div>(GAPI)</div> </div>										<div> <div>Perfo Zone From PERFO_CURVE to D3T</div> </div>									
<div> <div>0</div> <div>Discriminat ed CCL (CCLD)</div> <div>(V)</div> <div>-1</div> </div>										<div> <div>0</div> <div>Cable Speed (CS)</div> <div>(F/HR)</div> <div>5000</div> </div>									
<div> <div>0</div> <div>Tension (TENS)</div> <div>(LBF)</div> <div>2000</div> </div>										<div> <div>0</div> <div>Tension (TENS)</div> <div>(LBF)</div> <div>2000</div> </div>									
<div> <div>1874.05</div> </div>										<div> <div>171.5</div> </div>									











<b>Gamma Ray (GR)</b> (GAPI)	<b>Discriminat</b> <b>ed CCL</b> (CCLD)	<b>Cable Speed (CS)</b> (F/HR)	<b>Tension (TENS)</b> (LBF)
0 150	3 (V) -1	0 5000	0 2000

<b>Perfo Zone From PERFO_CURVE to D3T</b>	<b>Well Temperature (WTEP)</b> (DEGF)	
	165	190
	<b>Well Pressure (WPRE)</b> (PSIA)	<b>Temperature (WTEP)</b> (DEGF)
	<b>Well Temperature (WTEP)</b> (DEGF)	
	0	10
<b>Well Pressure (WPRE)</b> (PSIA)		
1870 2150		
<b>Amplified Well Pressure (WPRE)</b> (PSIA)		
0 20		

PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1\_1 Vertical Scale: 1:200 Graphics File Created: 25-Jun-2009 02:43

**OP System Version: 16C0-147**  
MCM

RST-C SRPC-3777-Q4\_2008\_OP16 PSPT-B SRPC-3777-Q4\_2008\_OP16

Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	0.0 M
	Playback Processing	NORMAL



## Input DLIS Files

DEFAULT	FLIP_RST_PSP_017	PRODUCER	25-Jun-2009 02:41	2194.6 M	1950.4 M
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## Output DLIS Files

DEFAULT	RST_PSP_018PUP	FN:15	PRODUCER	25-Jun-2009 02:43
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Company: **Esso Australia Pty Ltd.**

**Schlumberger**

Well: **A22A**

Field: **Marlin**

Rig: **Crane / Prod 4**

Country: **Australia**

RST-C

Sigma Survey

24-Jun-2009