



Schlumberger

Company: Esso Australia Pty Ltd

Well: A-17a

Field: Tuna

Rig: Crane/Prod 4

Country: Australia

MWPT 2 1/8" Powerjet Perforation  
4.5" Posiset Plug  
GR Survey

Field: Tuna  
Location: Gippsland  
Well: A-17a  
Company: Esso Australia Pty Ltd

LOCATION

LOCATION			
Gippsland Basin Bass Strait		Elev.:	K.B. 32.4 m
			G.L. -59 m
			D.F. 32.4 m
Permanent Datum:	M.S.L.	Elev.:	0 m
Log Measured From:	D.F.	32.4 m	above Perm. Datum
Drilling Measured From:	D.F.		
State: Victoria	Max. Well Deviation 64 deg	Longitude 148 2506.5"E	Latitude 038 1016.5"S

Logging Date	1-Apr-2007		
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Run Number	1 thru 5		
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Depth Driller	3375 m		
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Schlumberger Depth	3375 m		
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Bottom Log Interval	3375 m		
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Top Log Interval	2200 m		
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Casing Fluid Type	Production Fluids		
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Fluid Density			
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Fluid Level	365 m		
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BIT/CASING/TUBING STRING			
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Bit Size	6.000 in		
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From			
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To			
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Casing/Tubing Size	4.500 in		
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Weight	12.6 lbn/ft		
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Grade	VamAce-80		
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From	2766 m		
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To	3141 m		
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Maximum Recorded Temperatures	215 degF		
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Logger On Bottom	1-Apr-2007		
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Unit Number	889	Ausl / Prod 4	10:00
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Recorded By	G Wright , S Gilbert , M Pratt.		
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Witnessed By	G Rimmer, R Morris.		
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PVT DATA

Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	64 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	
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Run Number	
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Depth Driller	
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Schlumberger Depth	
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Bottom Log Interval	
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Top Log Interval	
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Casing Fluid Type	
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Salinity	
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Density	
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Fluid Level	
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BIT/CASING/TUBING STRING	
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Bit Size	
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From	
------	--

To	
----	--

Casing/Tubing Size	
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Weight	
--------	--

Grade	
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From	
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To	
----	--

Maximum Recorded Temperatures	
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Logger On Bottom	
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Unit Number	
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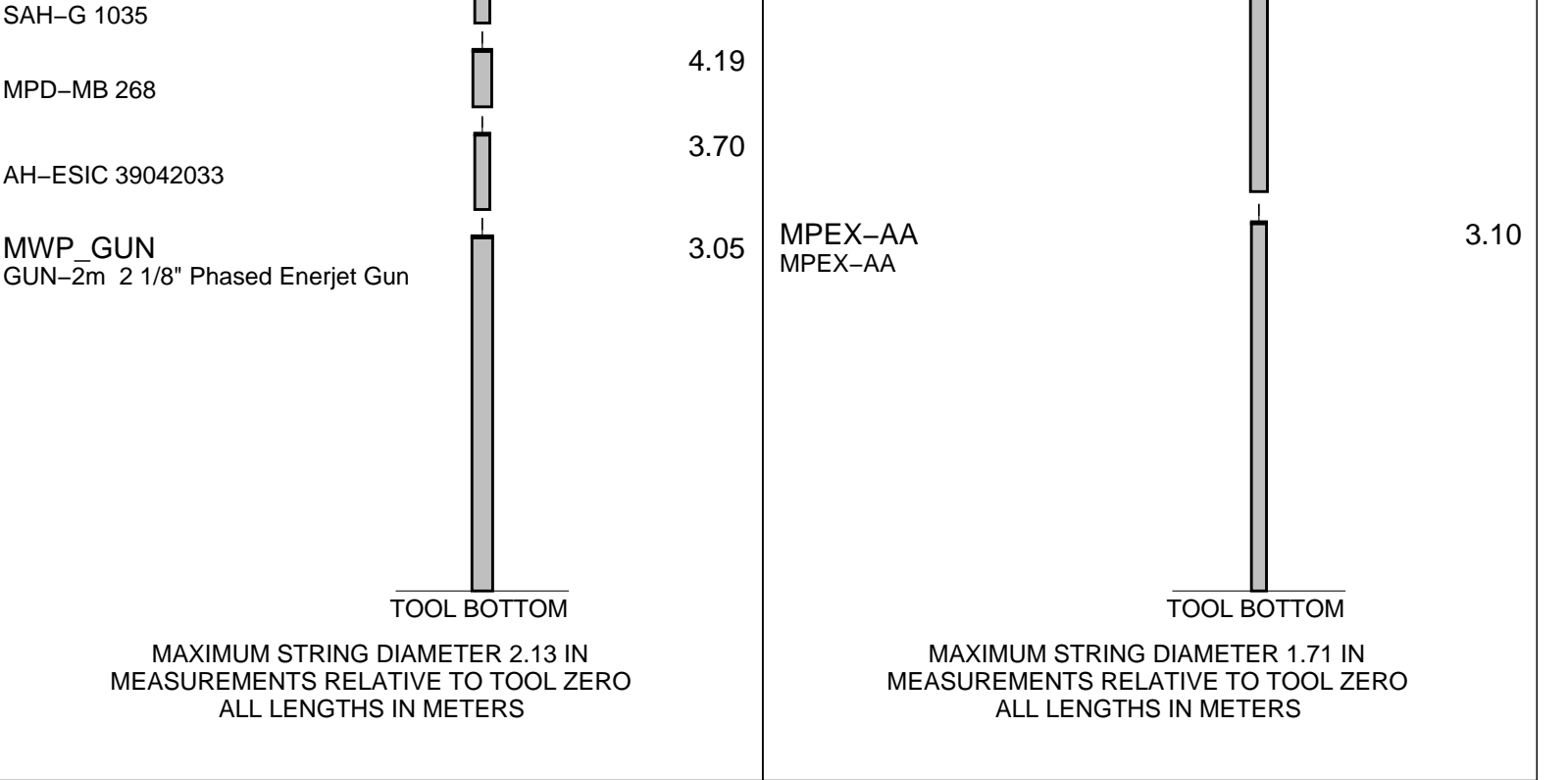
Recorded By	
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Witnessed By	
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Run 1

Top shot @ 5545.5m MDRD	Top shot @ 5545.5m MDRD
CCL to top shot : 3.60 m	CCL to top shot : 3.60 m





31-Mar-2007

Client: ExxonMobil

Well: A-17a

Field: Tuna

State: Victoria

Country: Australia

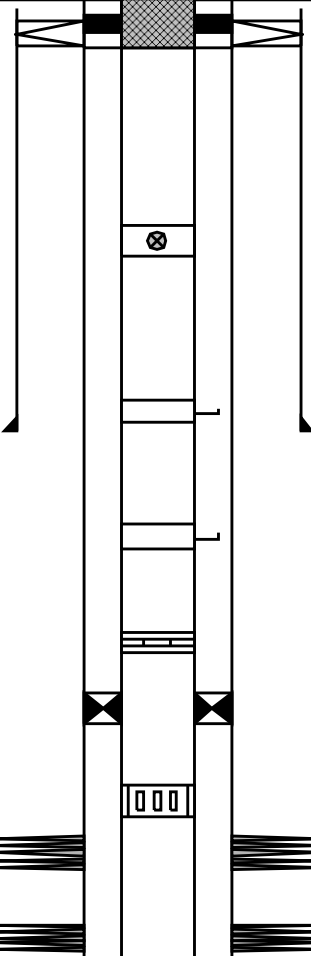
Rig Name: Tuna

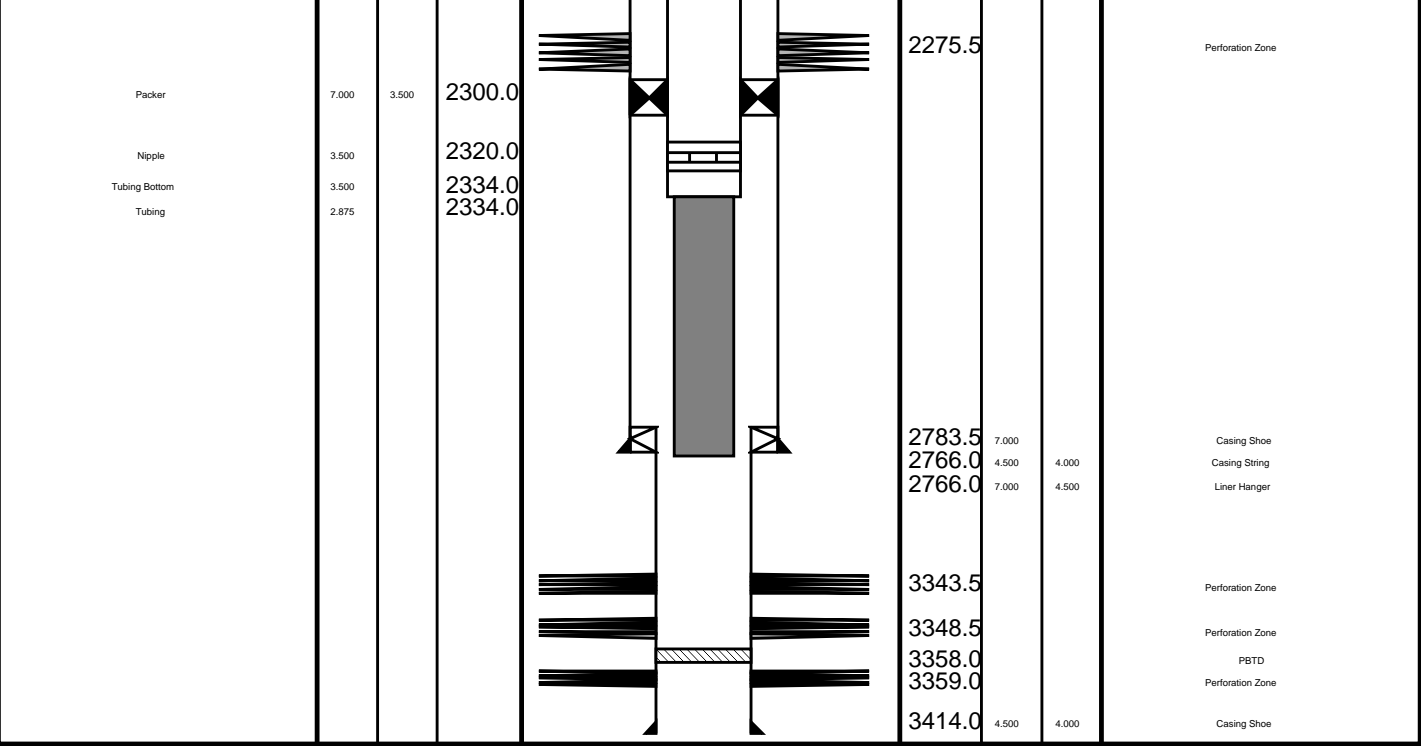
Reference Datum: Kelly Bushing

Elevation:

Drawing Date:

API #:

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	7.000	3.500	7.0		14.0	13.375		<div>Casing String</div> <div>Casing String</div> <div>Liner Hanger</div> <div>Casing Shoe</div> <div>Perforation Zone</div> <div>Perforation Zone</div>
Tubing	3.500		9.7		12.5	7.000		
					12.5	13.375	7.000	
Shutin Valve	3.500		450.9					
Gas Lift Mandrel	3.500		1408.0		715.2	13.375		
Gas Lift Mandrel	3.500		1919.0					
Nipple	3.500		2051.0					
Packer	7.000	3.500	2077.0					
Sliding Sleeve	3.500		2185.0		2246.5			
					2261.0			



Water Dump Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO\_062LUP FN:57 PRODUCER 03-Apr-2007 02:12

OP System Version: 14C0-302  
MCM

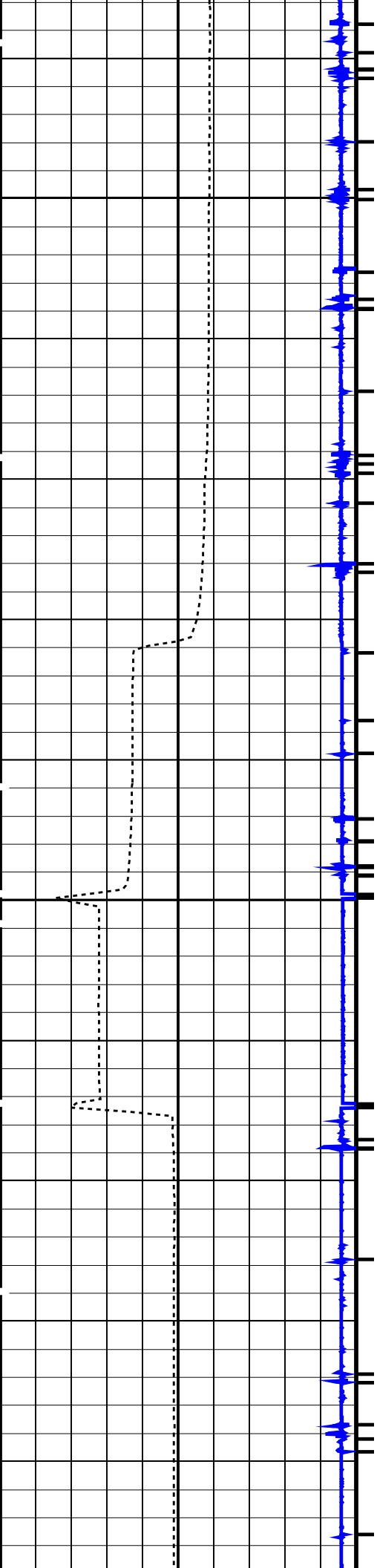
SHM\_GUN 14C0-302 CCL-L 14C0-302

PIP SUMMARY

└─ Casing Collars

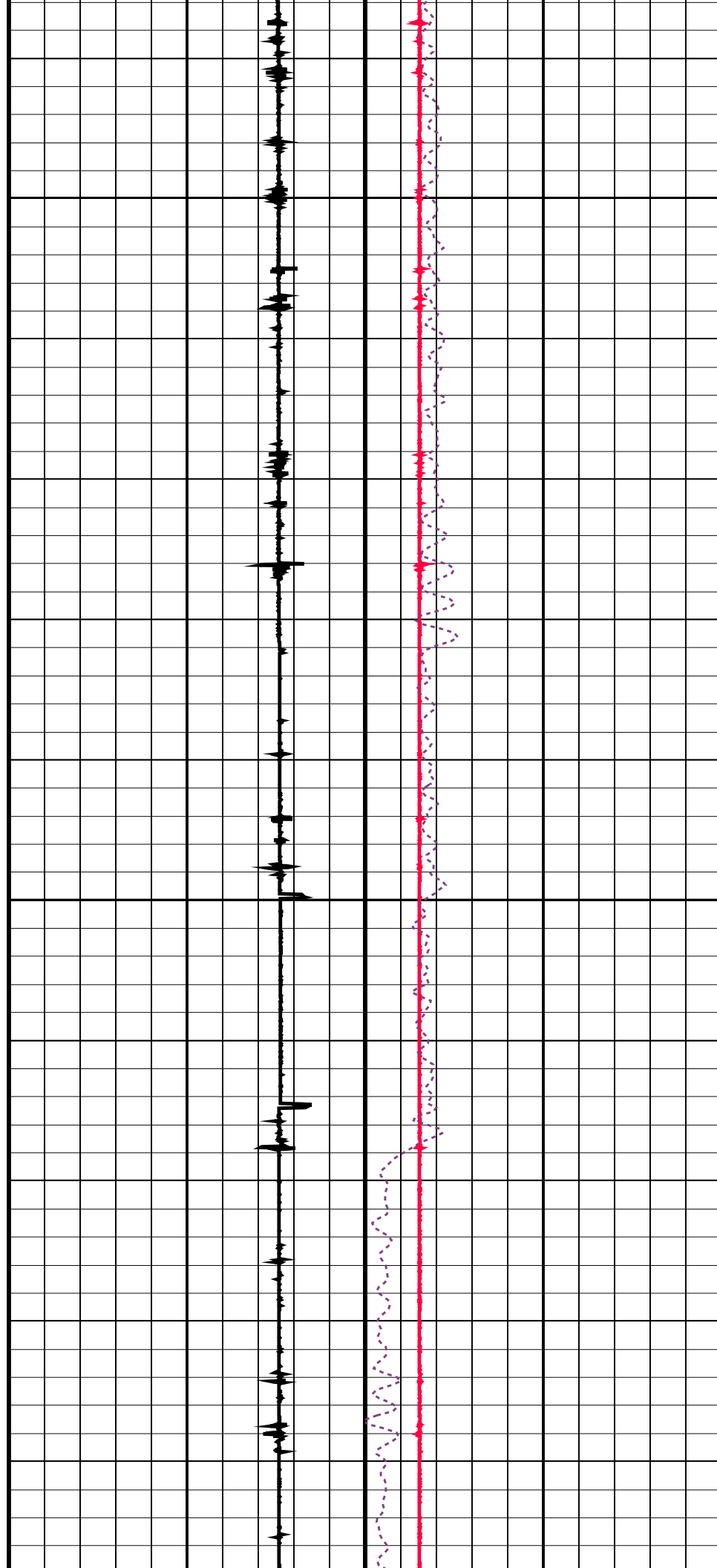
Time Mark Every 60 S

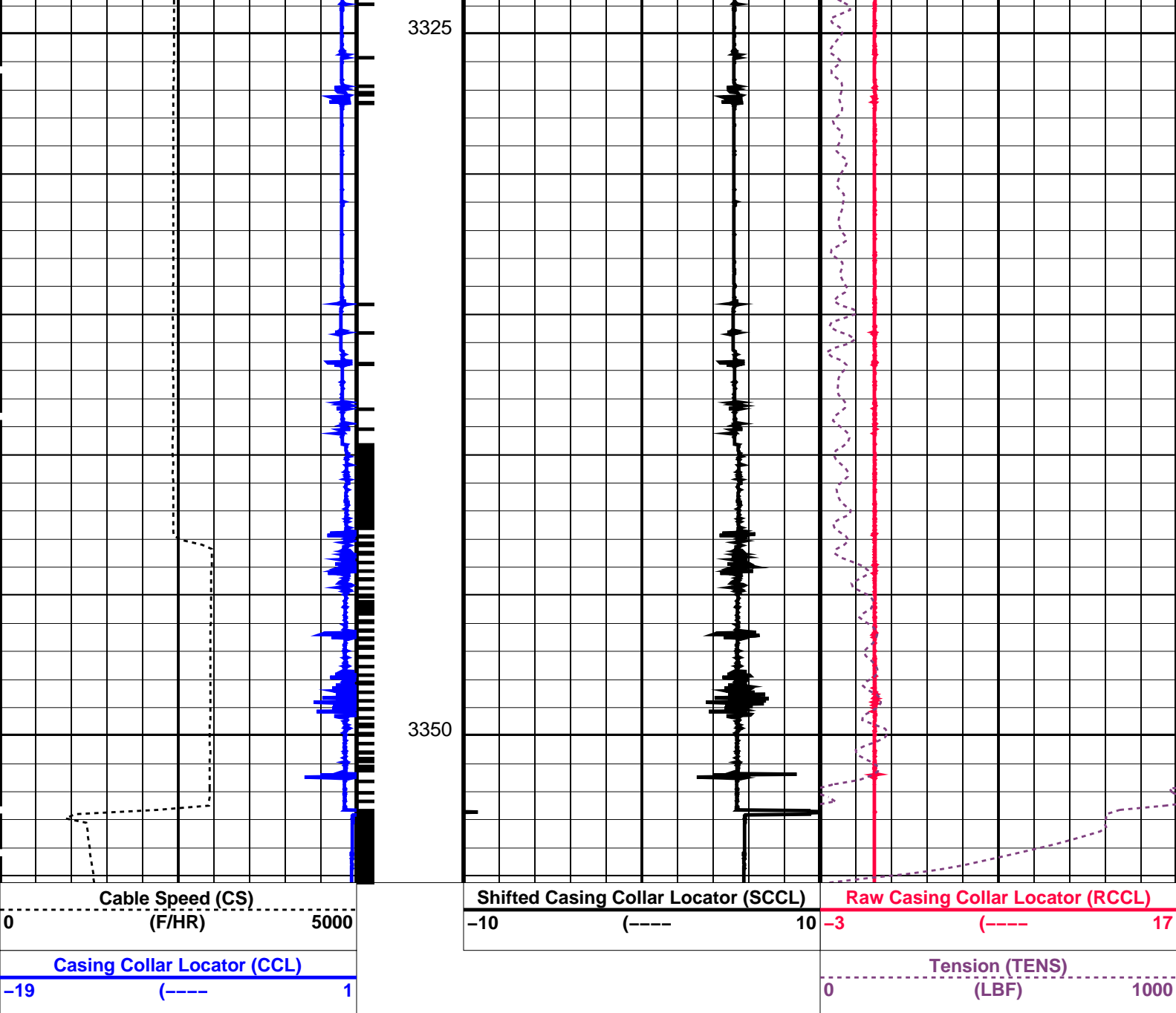
Casing Collar Locator (CCL)		Tension (TENS)	
-19	(----	0	(LBF) 1000
Cable Speed (CS)		Shifted Casing Collar Locator (SCCL)	
0	(F/HR) 5000	-10	10
		Raw Casing Collar Locator (RCCL)	
		-3	(----- 17



3275

3300





#### PIP SUMMARY

<div><div></div></div> Time Mark Every 60 S		<div><div></div></div> Casing Collars	
Parameters			
DLIS Name	Description	Value	
CCLD	CCL-L: Casing Collar Locator	12	IN
CCLT	CCL reset delay	0.3	V
CCLT	CCL Detection Level		
Format: PERFO	Vertical Scale: 1:200	Graphics File Created: 03-Apr-2007 02:12	
OP System Version: 14C0-302			
MCM			
SHM_GUN	14C0-302	CCL-L	14C0-302
Output DLIS Files			
DEFAULT	PERFO_062LUP	FN:57	PRODUCER 03-Apr-2007 02:12



Output DLIS Files

DEFAULT MPBT\_053LUP FN:48 PRODUCER 02-Apr-2007 21:58

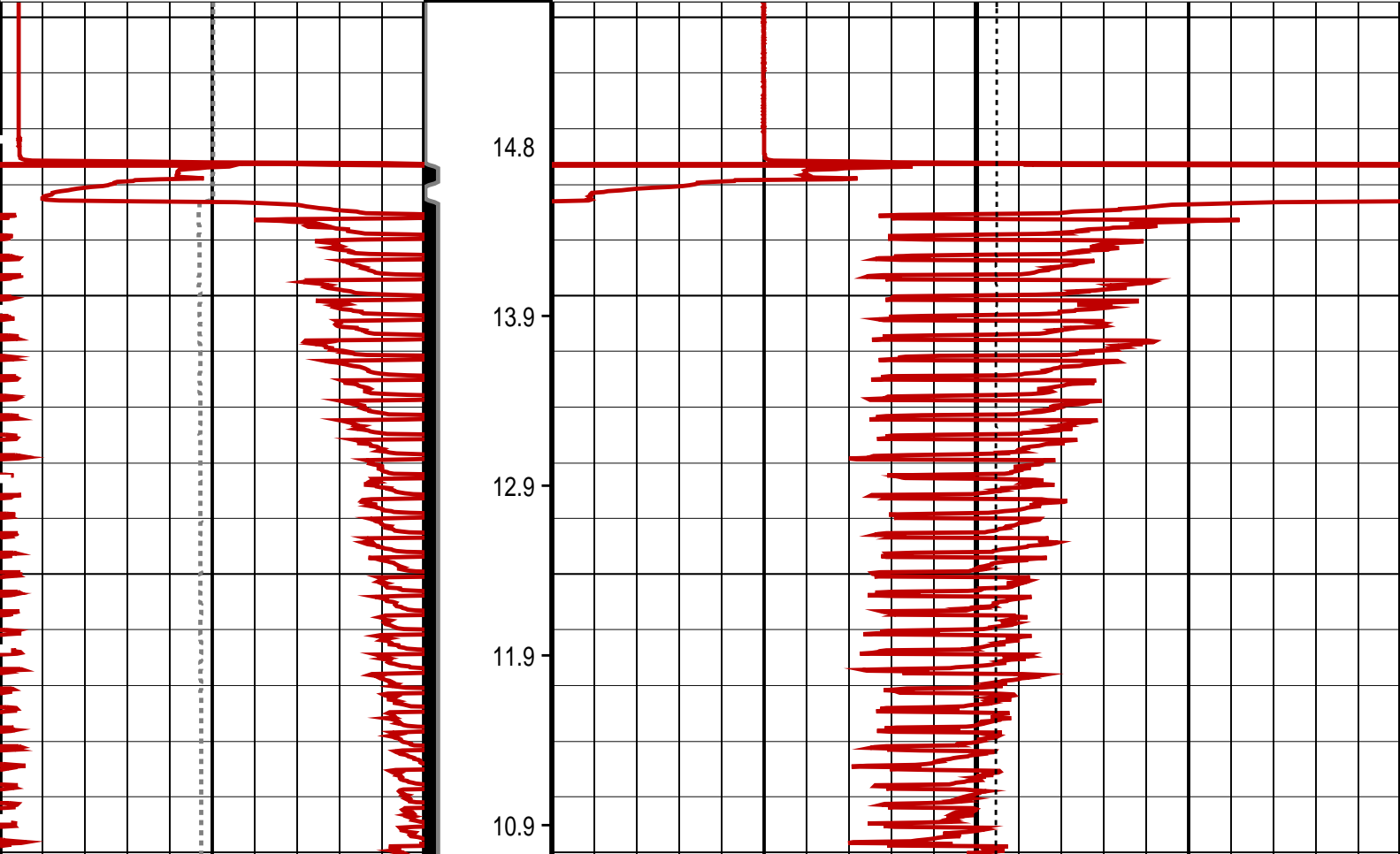
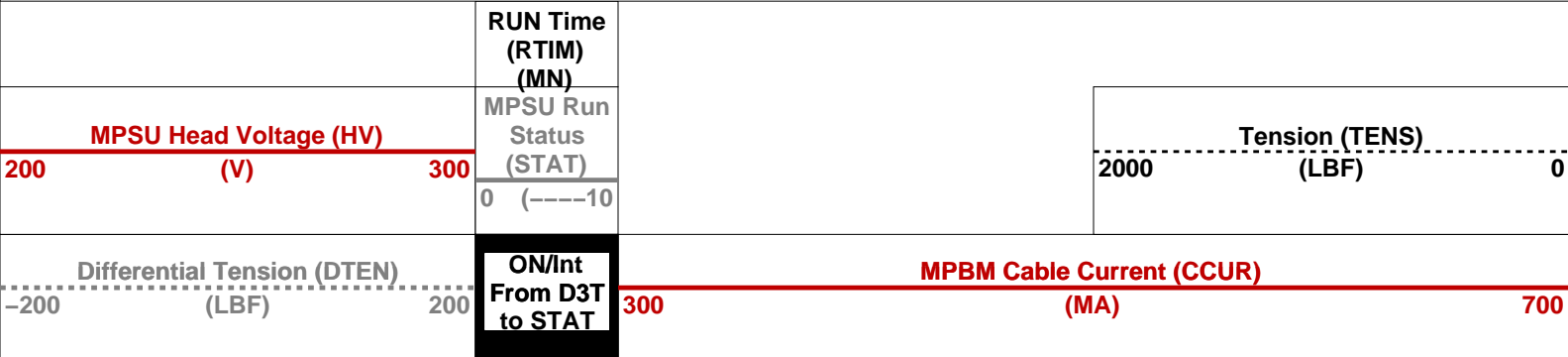
OP System Version: 14C0-302  
MCM

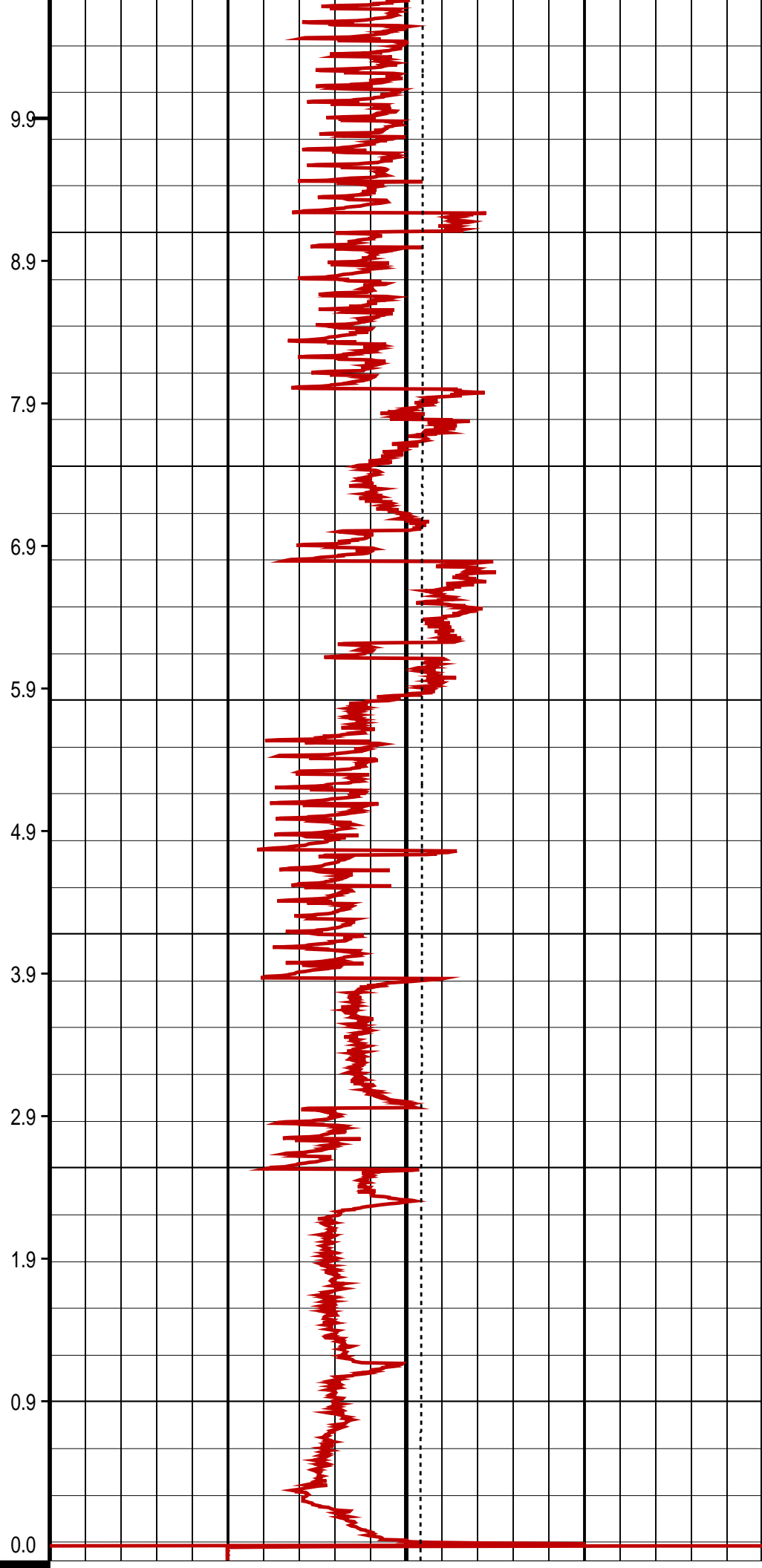
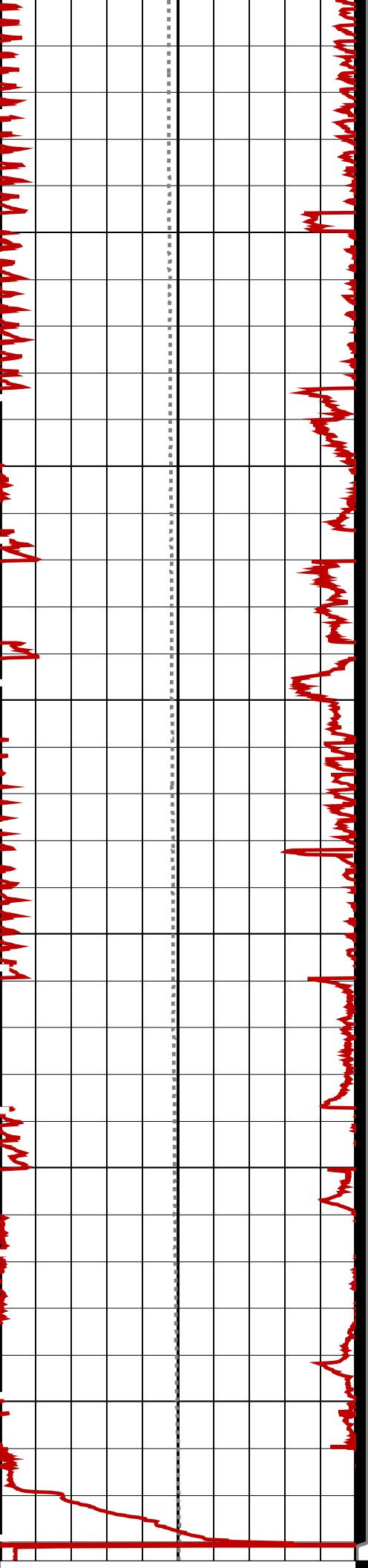
MPEX-AA 14C0-302 MPSU-BA 14C0-302  
CCL-L 14C0-302

PIP SUMMARY

- └ MPSU Run Time Every 1 MN
- └ MPSU Run Time Every 10 MN

Time Mark Every 60 S





Differential Tension (DTEN) ----- -200 (LBF) 200		ON/Int From D3T to STAT	MPBM Cable Current (CCUR) ----- 300 (MA) 700	
MPSU Head Voltage (HV) ----- 200 (V) 300		MPSU Run Status (STAT) 0 (----10	Tension (TENS) ----- 2000 (LBF) 0	
		RUN Time (RTIM) (MN)		

<div>PIP SUMMARY</div> <div> <div>⌄ MPSU Run Time Every 1 MN</div> <div>⌄ MPSU Run Time Every 10 MN</div> </div> <div> <div>Time Mark Every 60 S</div> </div>				
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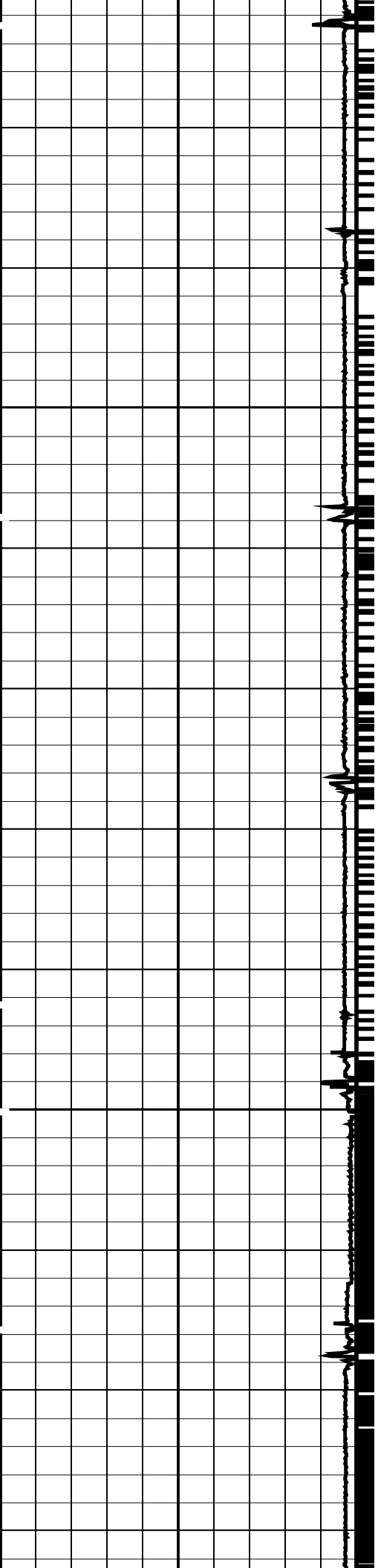
Parameters		
DLIS Name	Description	Value
MPSU-BA: IPUMP	MECHANICAL PLUGBACK SETTING UNIT Intensifier Pump	TRUE
Format: MPBT    Vertical Scale: 1:600    Graphics File Created: 02-Apr-2007 21:58		

OP System Version: 14C0-302			
MCM			
MPEX-AA CCL-L	14C0-302 14C0-302	MPSU-BA	14C0-302

Output DLIS Files			
DEFAULT	MPBT_053LUP	FN:48    PRODUCER	02-Apr-2007 21:58

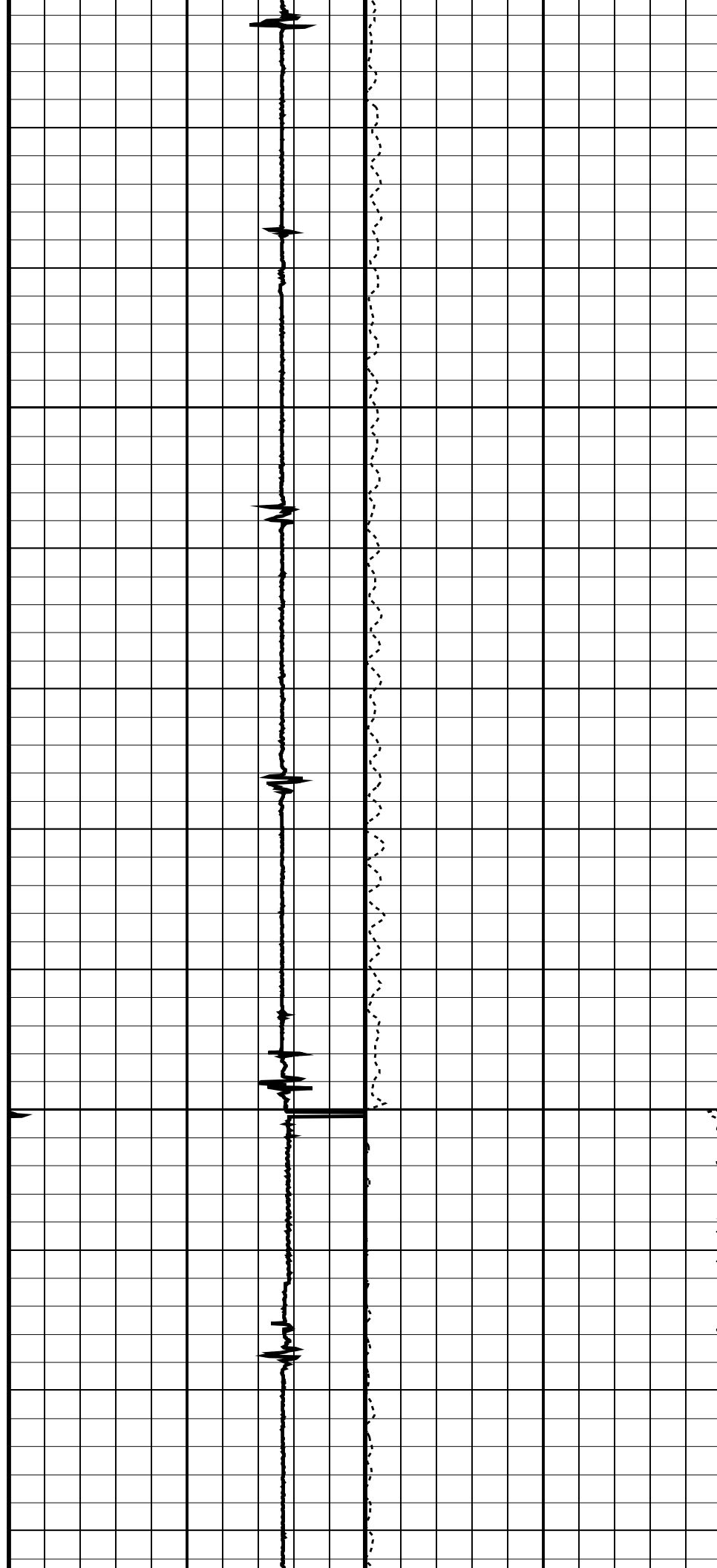
Output DLIS Files					
DEFAULT	MPBT_056LUP	FN:51    PRODUCER	02-Apr-2007 23:06	3350.2 M	3246.3 M
OP System Version: 14C0-302					
MCM					
MPEX-AA CCL-L	14C0-302 14C0-302	MPSU-BA	14C0-302		

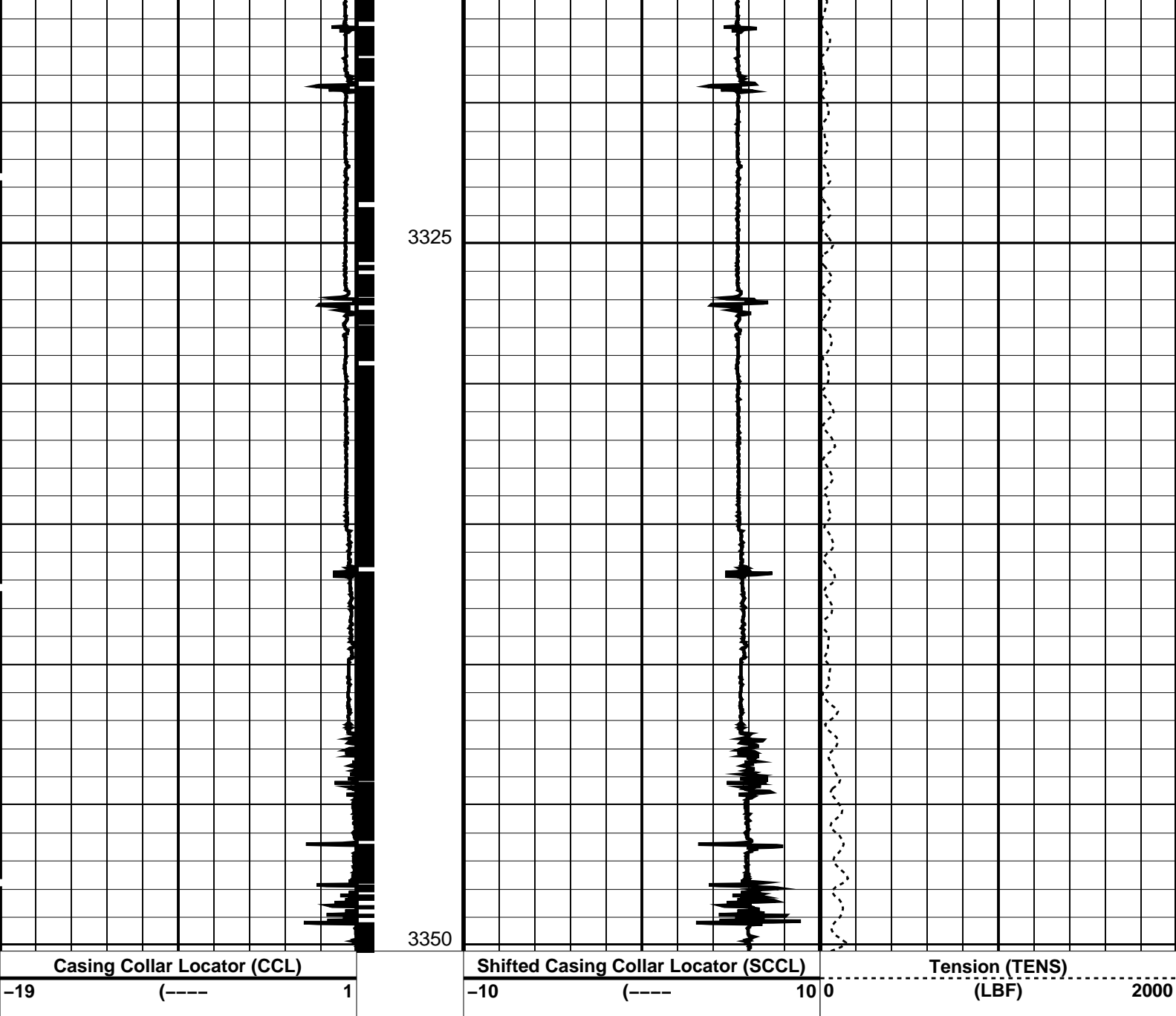
PIP SUMMARY					
<div>Time Mark Every 60 S</div> <div> <div>⌄ Casing Collars</div> </div>					
Casing Collar Locator (CCL) ----- -19 (---- 1		Shifted Casing Collar Locator (SCCL) ----- -10 (---- 10 0		Tension (TENS) ----- (LBF) 2000	



3275

3300





PIP SUMMARY

Time Mark Every 60 S

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 02-Apr-2007 23:06

OP System Version: 14C0-302  
MCM

MPEX-AA	14C0-302	MPSU-BA	14C0-302
CCL-L	14C0-302		

Output DLIS Files

DEFAULT	MPBT_056LUP	FN:51	PRODUCER	02-Apr-2007 23:06
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Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT MPBT\_052LUP FN:47 PRODUCER 02-Apr-2007 21:40 3325.7 M 3249.6 M

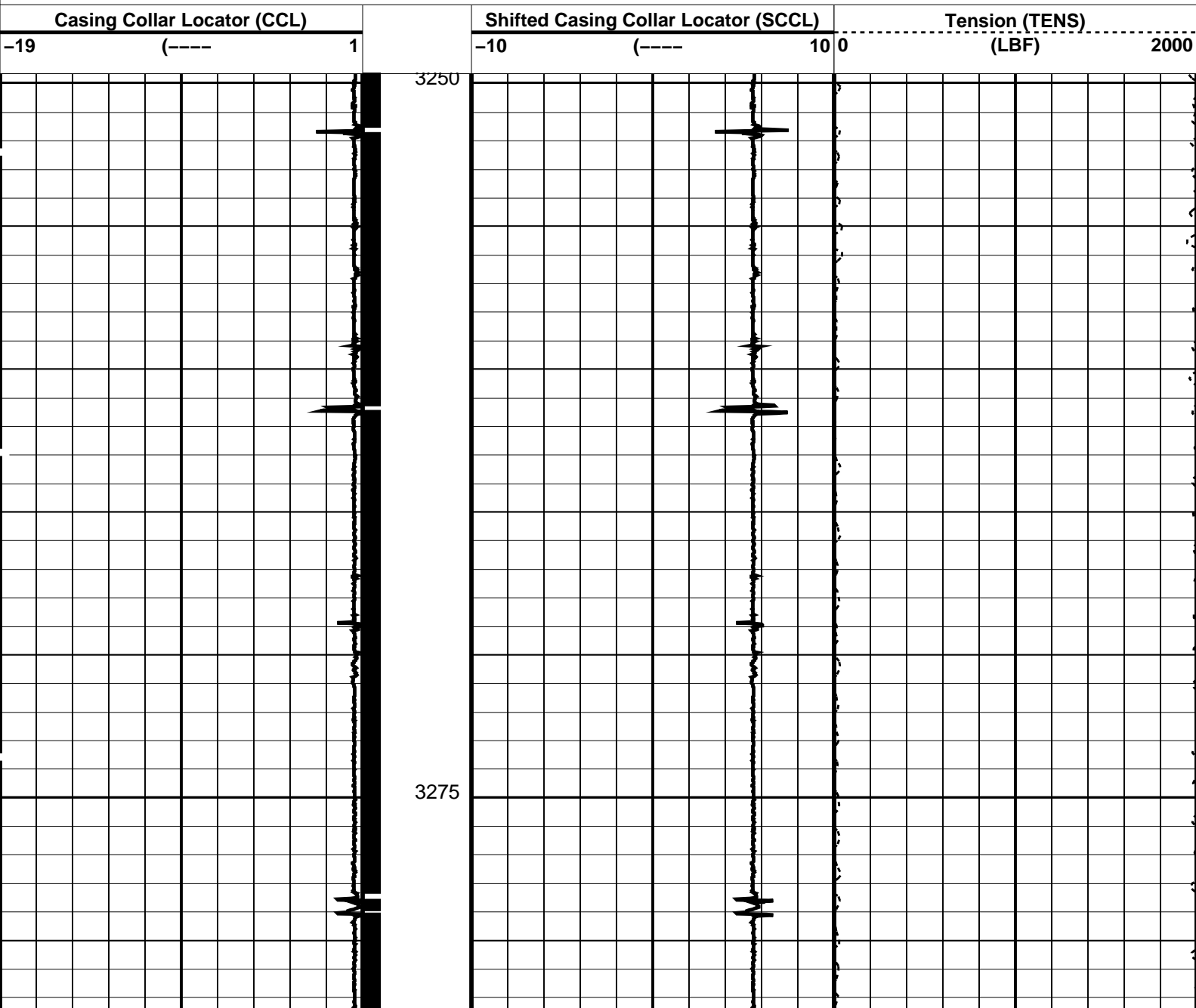
OP System Version: 14C0-302  
MCM

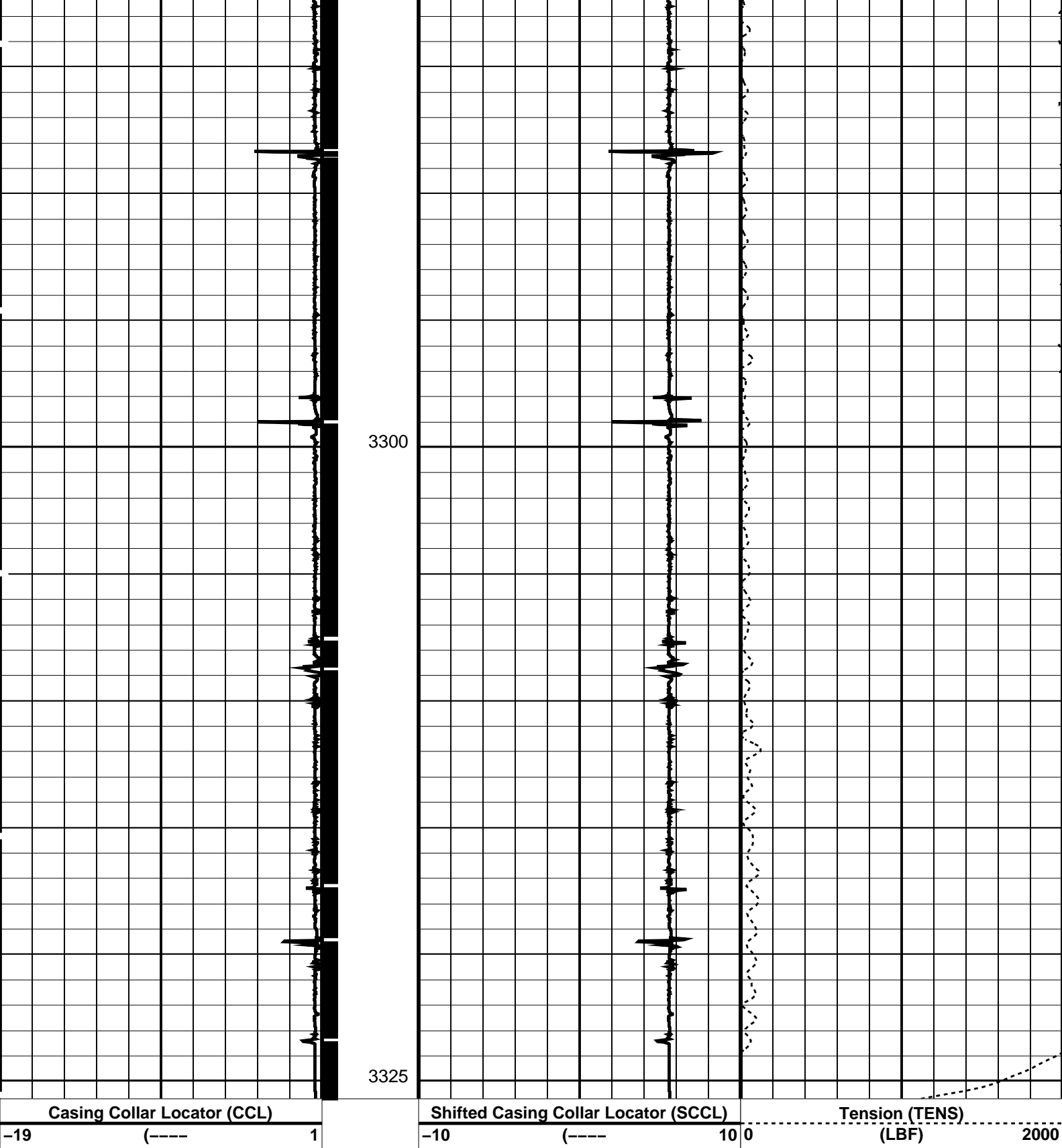
MPEX-AA 14C0-302 MPSU-BA 14C0-302  
CCL-L 14C0-302

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCL-L	Casing Collar Locator	
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V

OP System Version: 14C0-302

MCM

MPEX-AA 14C0-302  
CCL-L 14C0-302

MPSU-BA 14C0-302

Output DLIS Files

DEFAULT MPBT\_052LUP FN:47 PRODUCER 02-Apr-2007 21:40



PBMS Gamma-Ray Survey  
2200m to 3358m MDKB.

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: A-17a

Input DLIS Files

DEFAULT PSP\_040LUP FN:35 PRODUCER 02-Apr-2007 16:29 3375.1 M 2174.3 M

Output DLIS Files

DEFAULT PSP\_042PUP FN:37 PRODUCER 02-Apr-2007 18:47 3375.1 M 2174.7 M

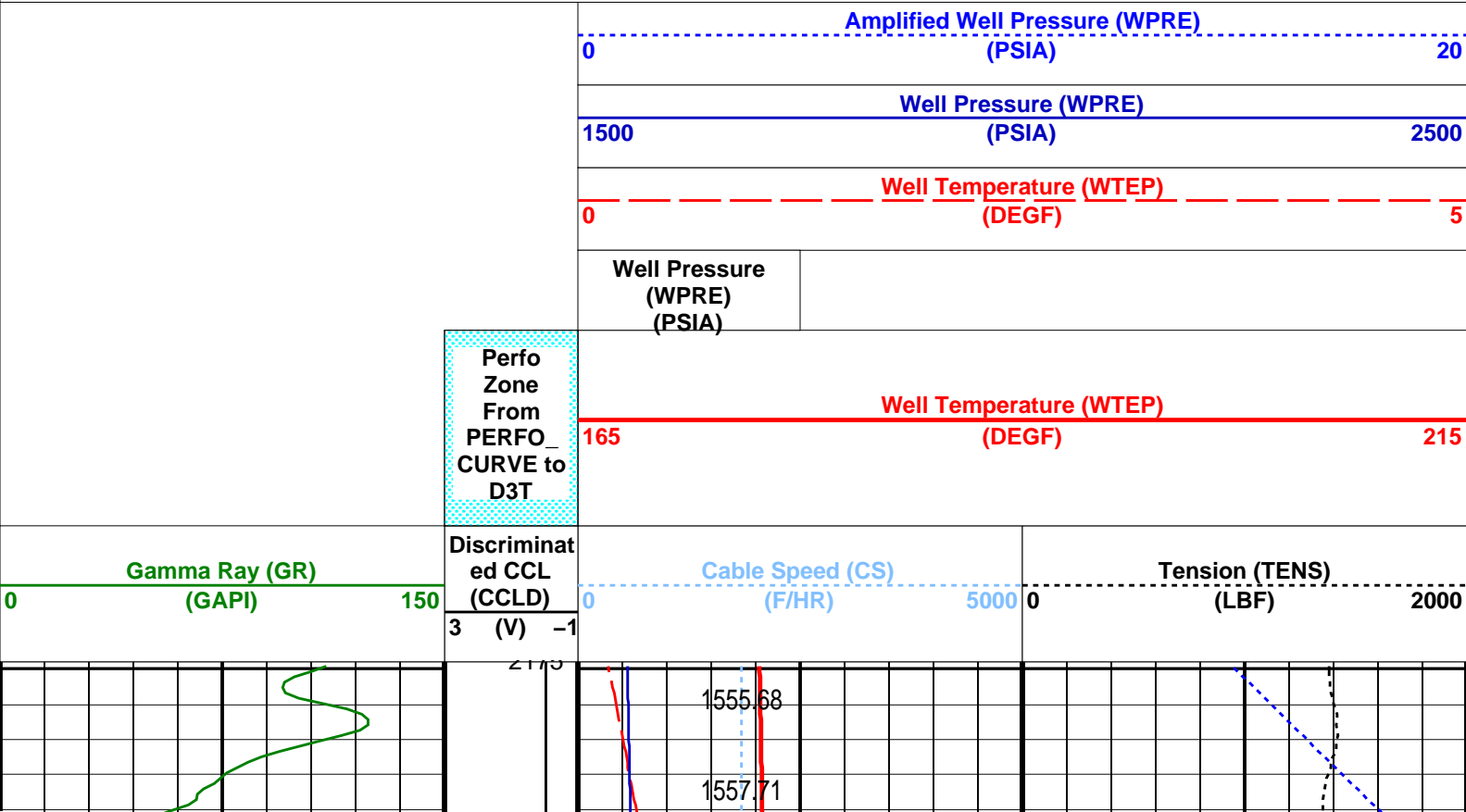
OP System Version: 14C0-302

MCM

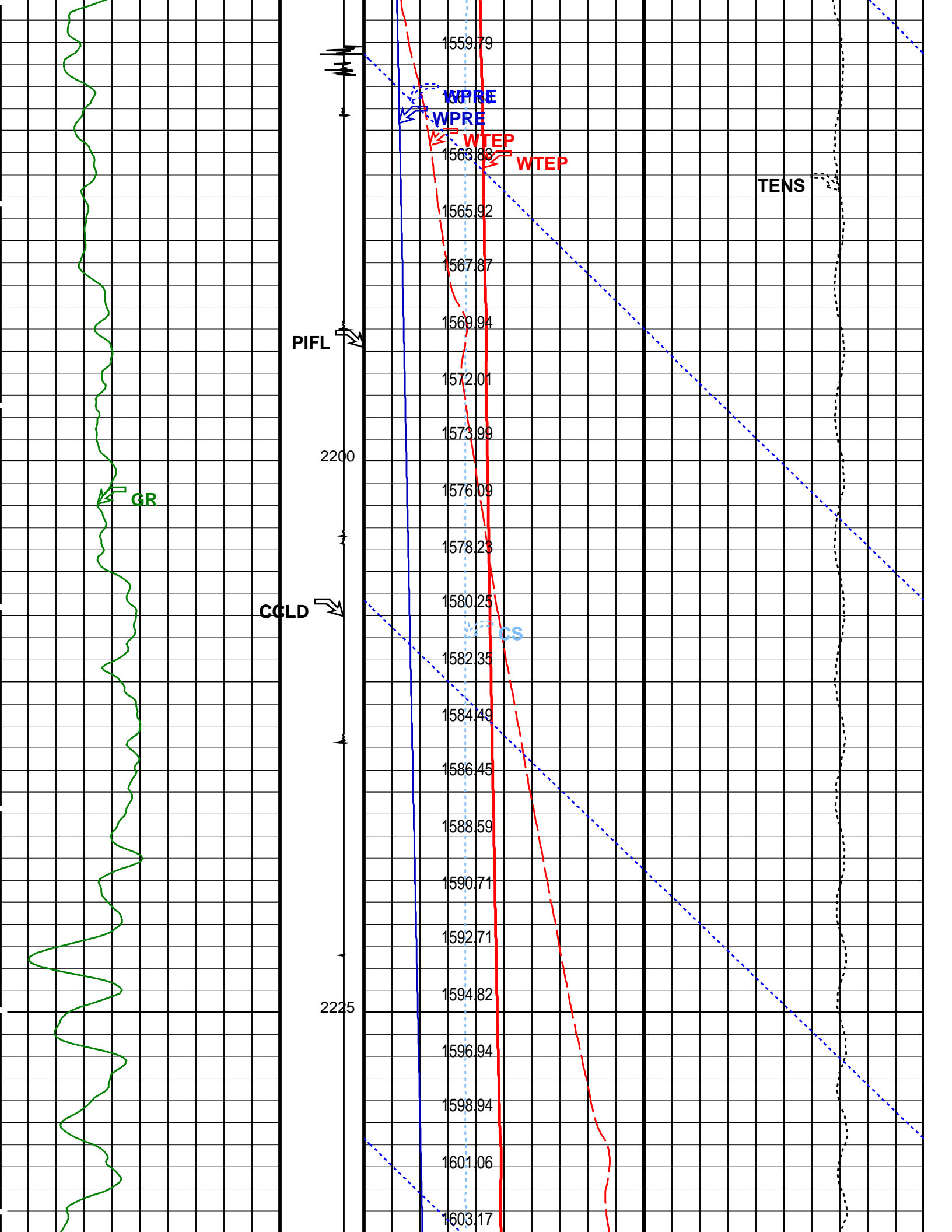
PSPT-A/B 14C0-302

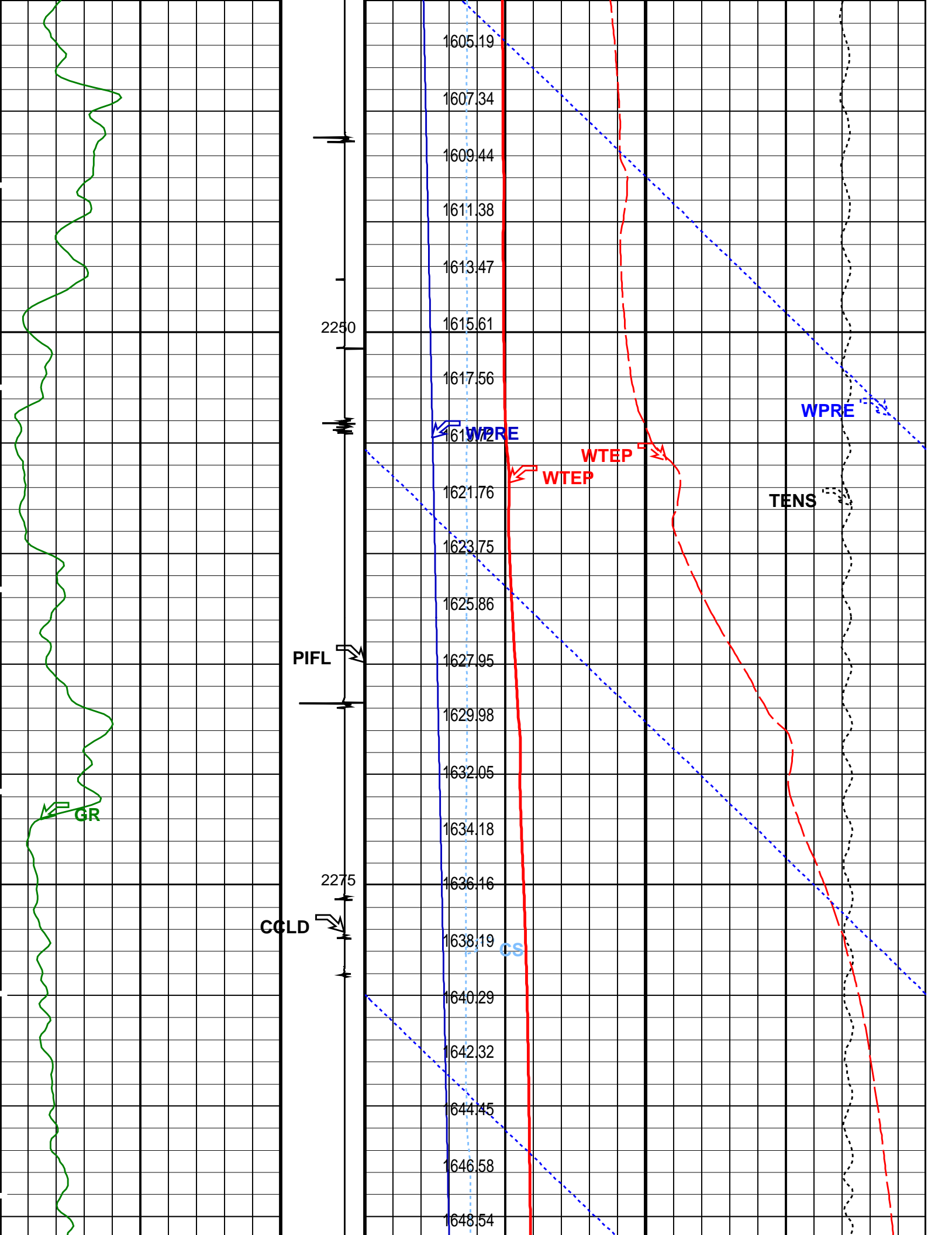
PIP SUMMARY

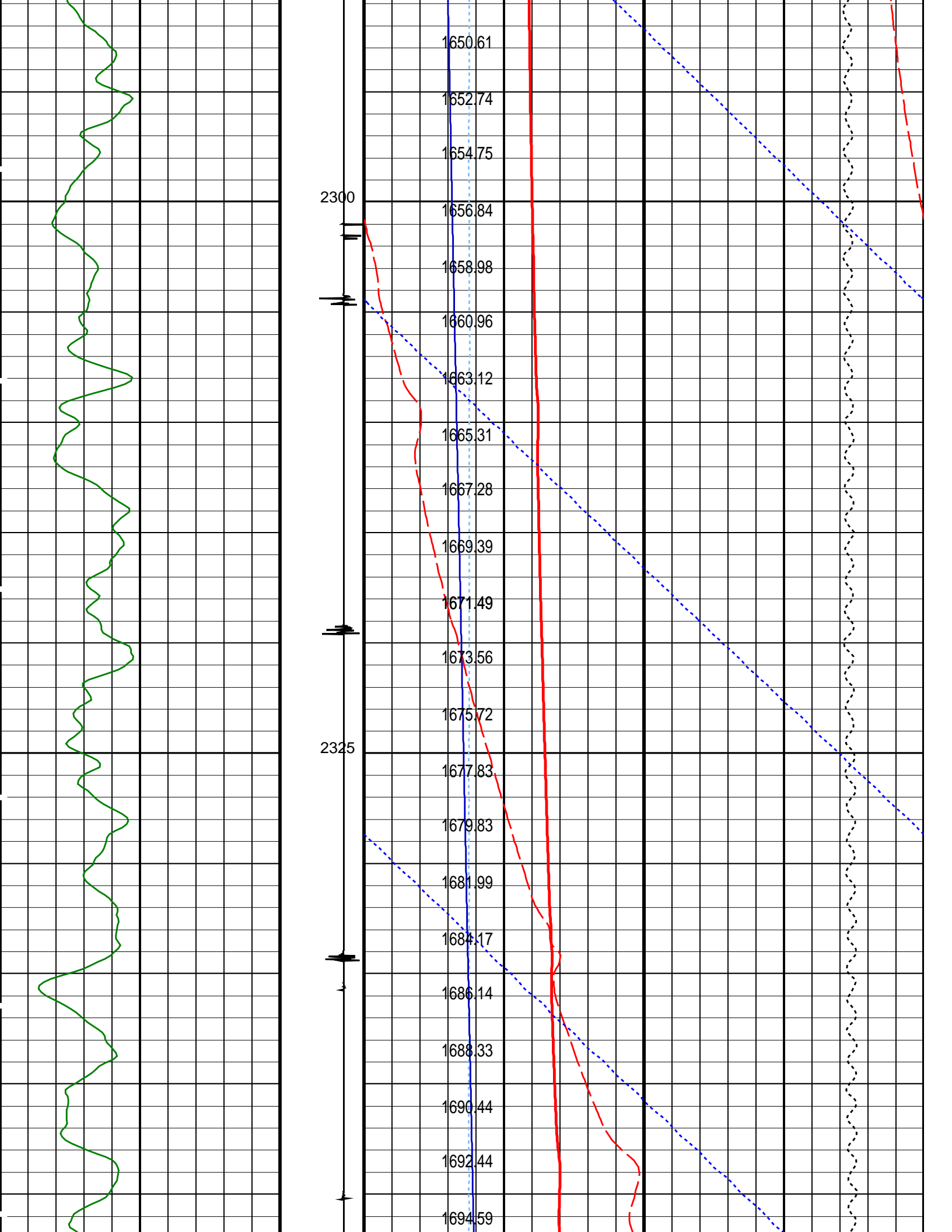
Time Mark Every 60 S

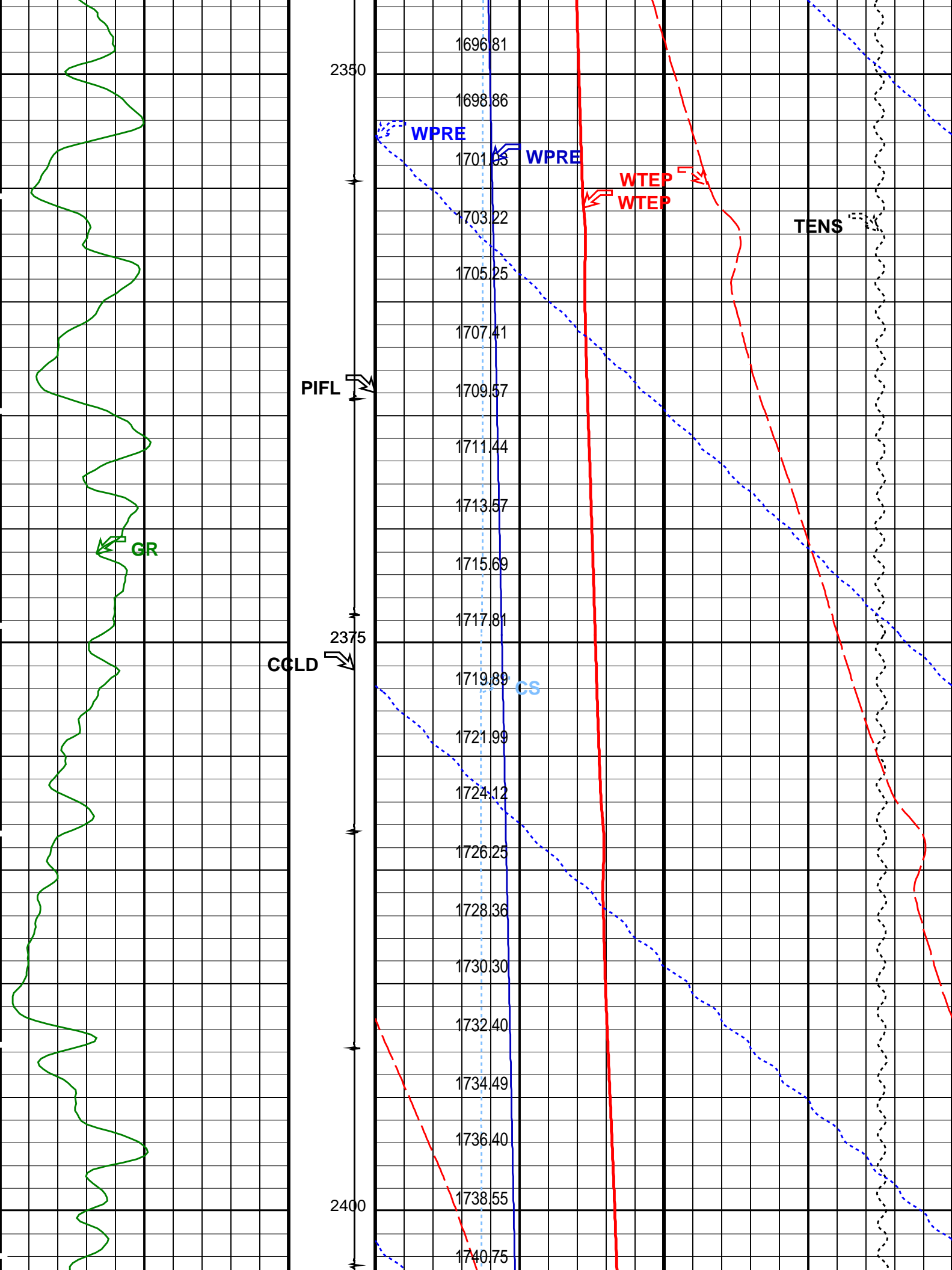


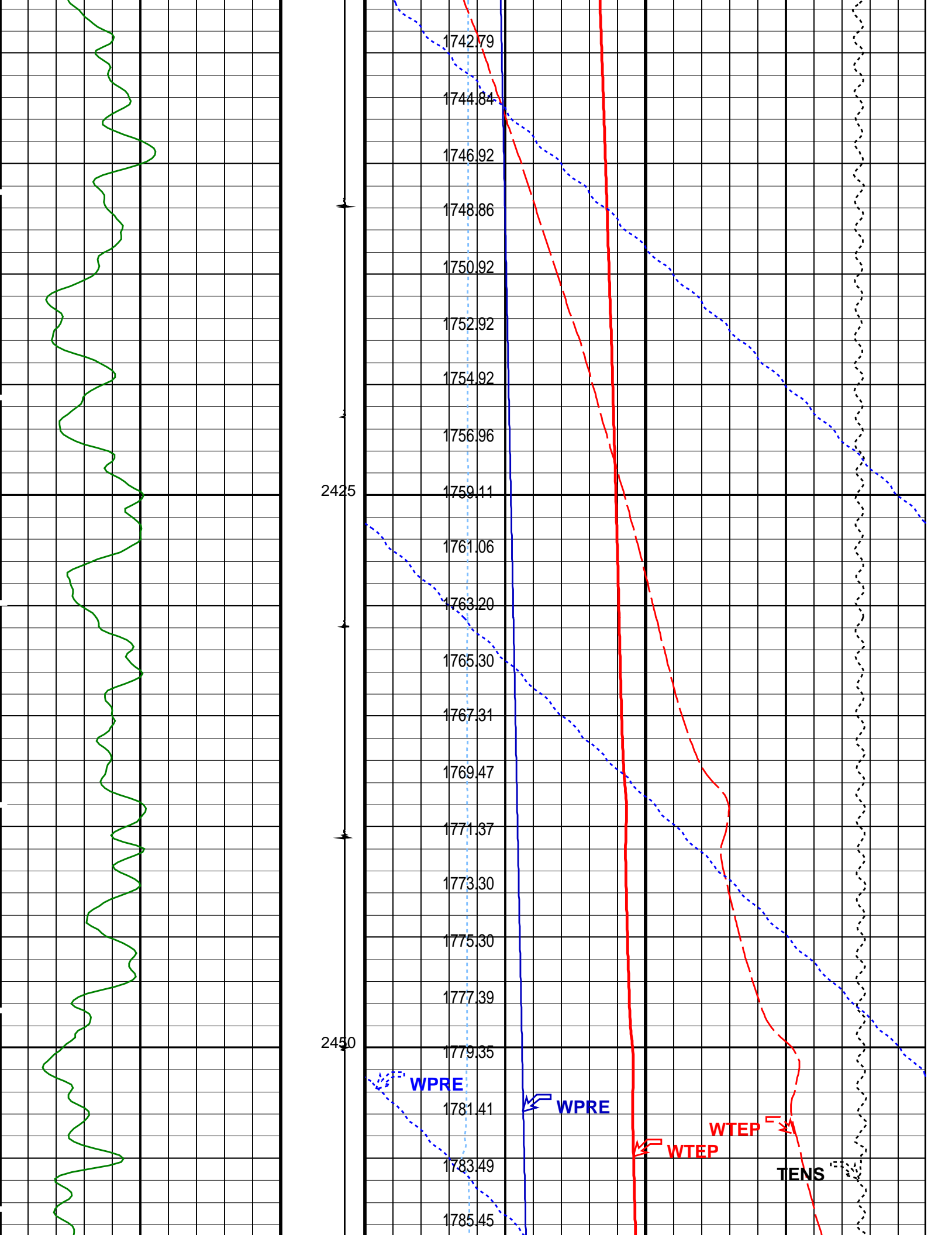


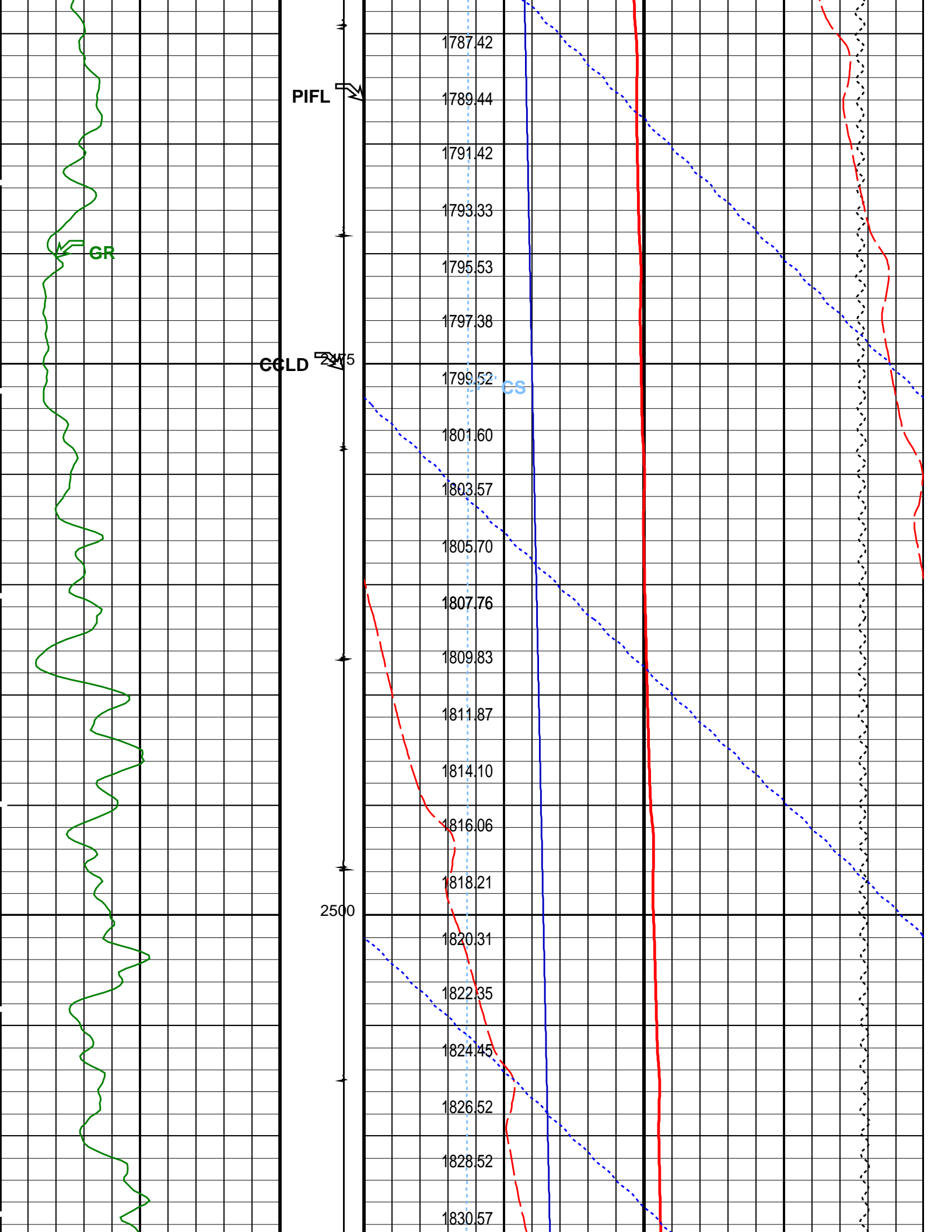


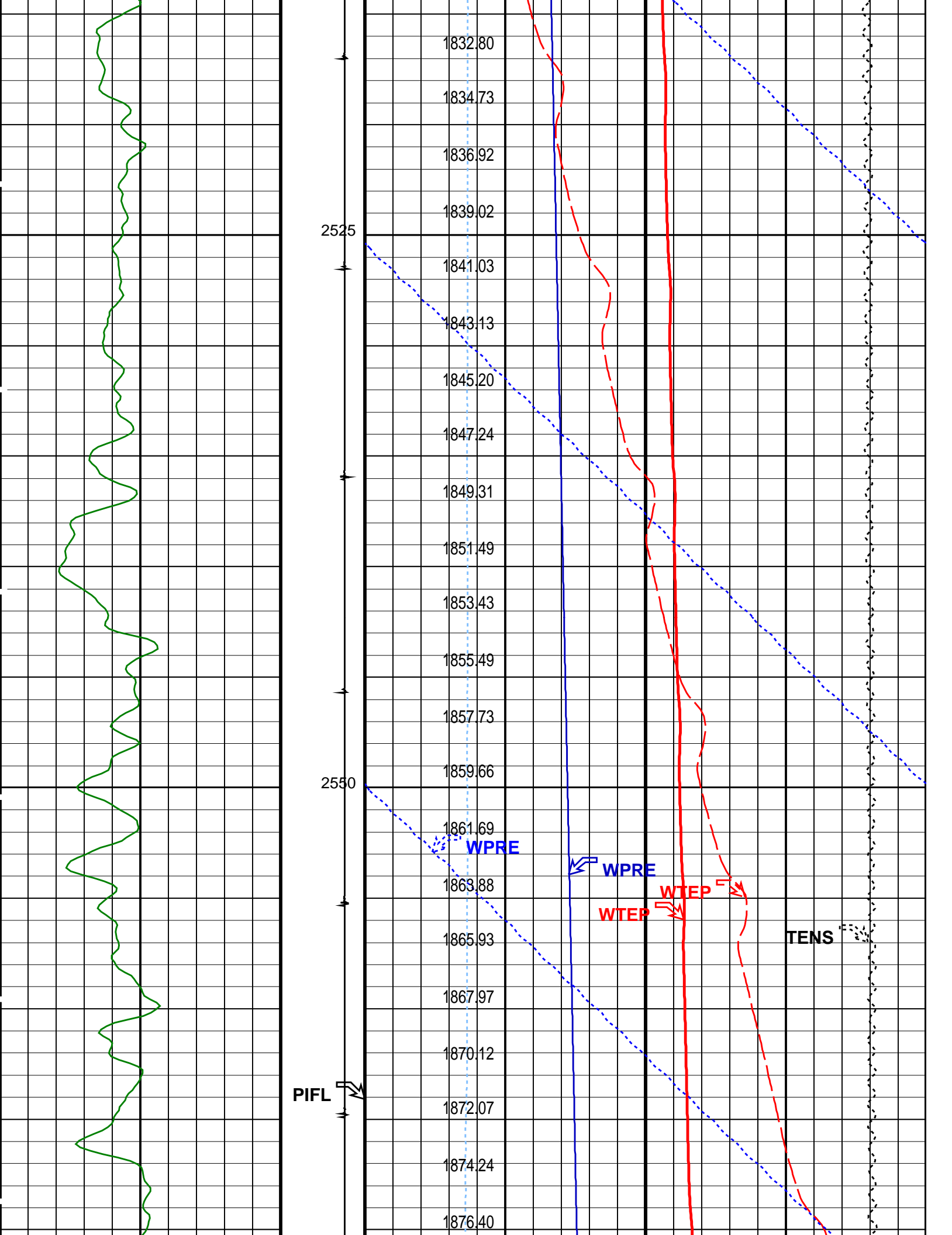


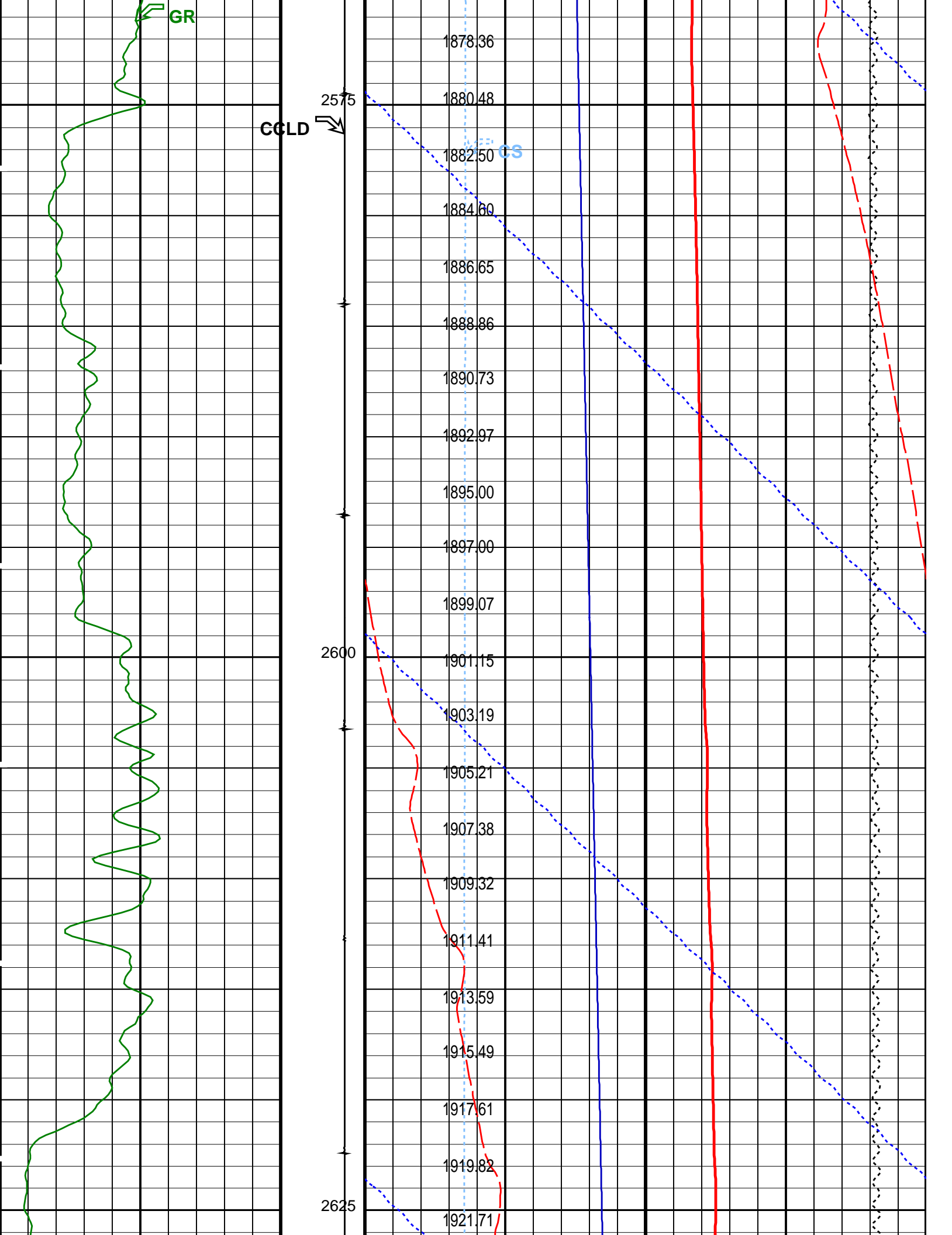




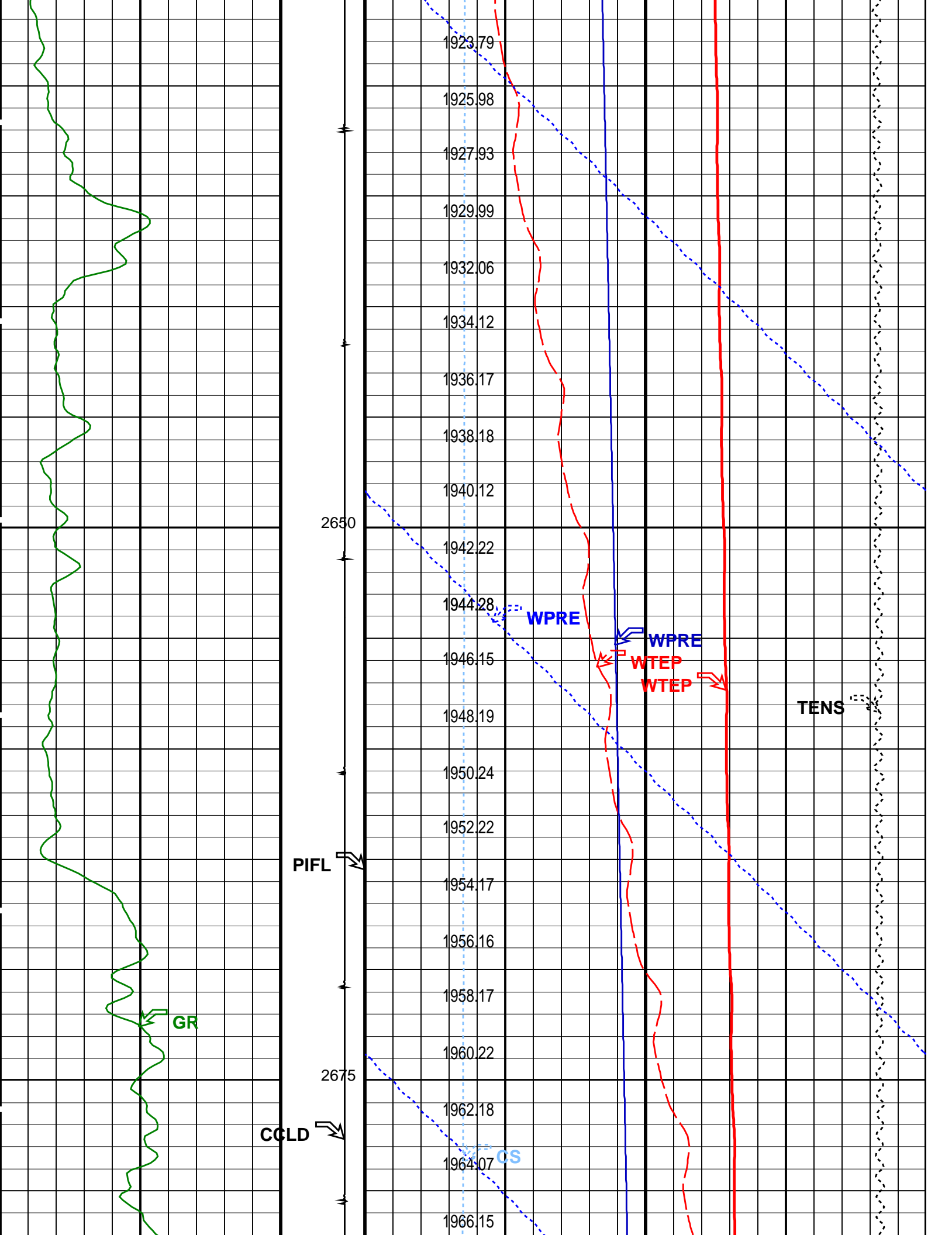


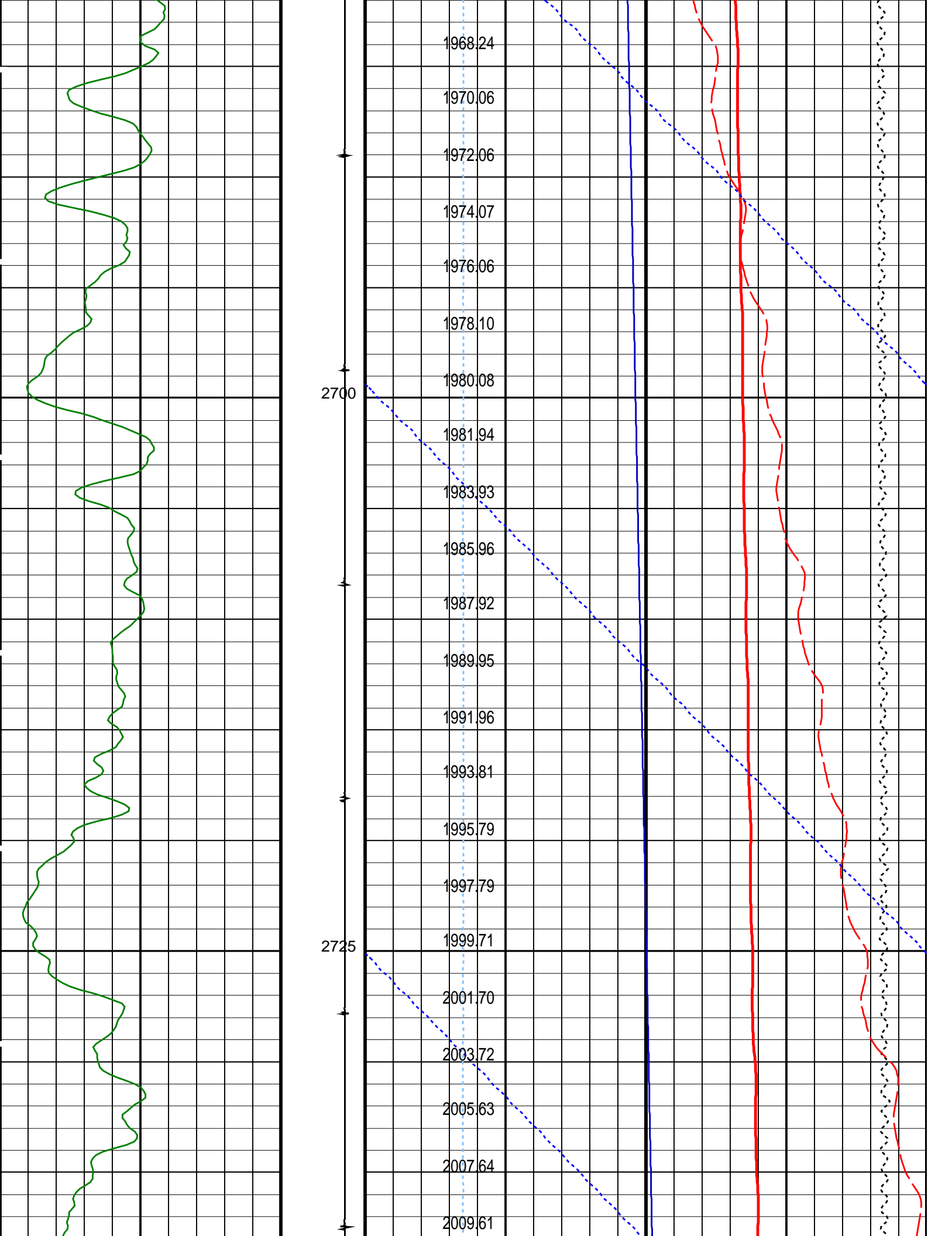


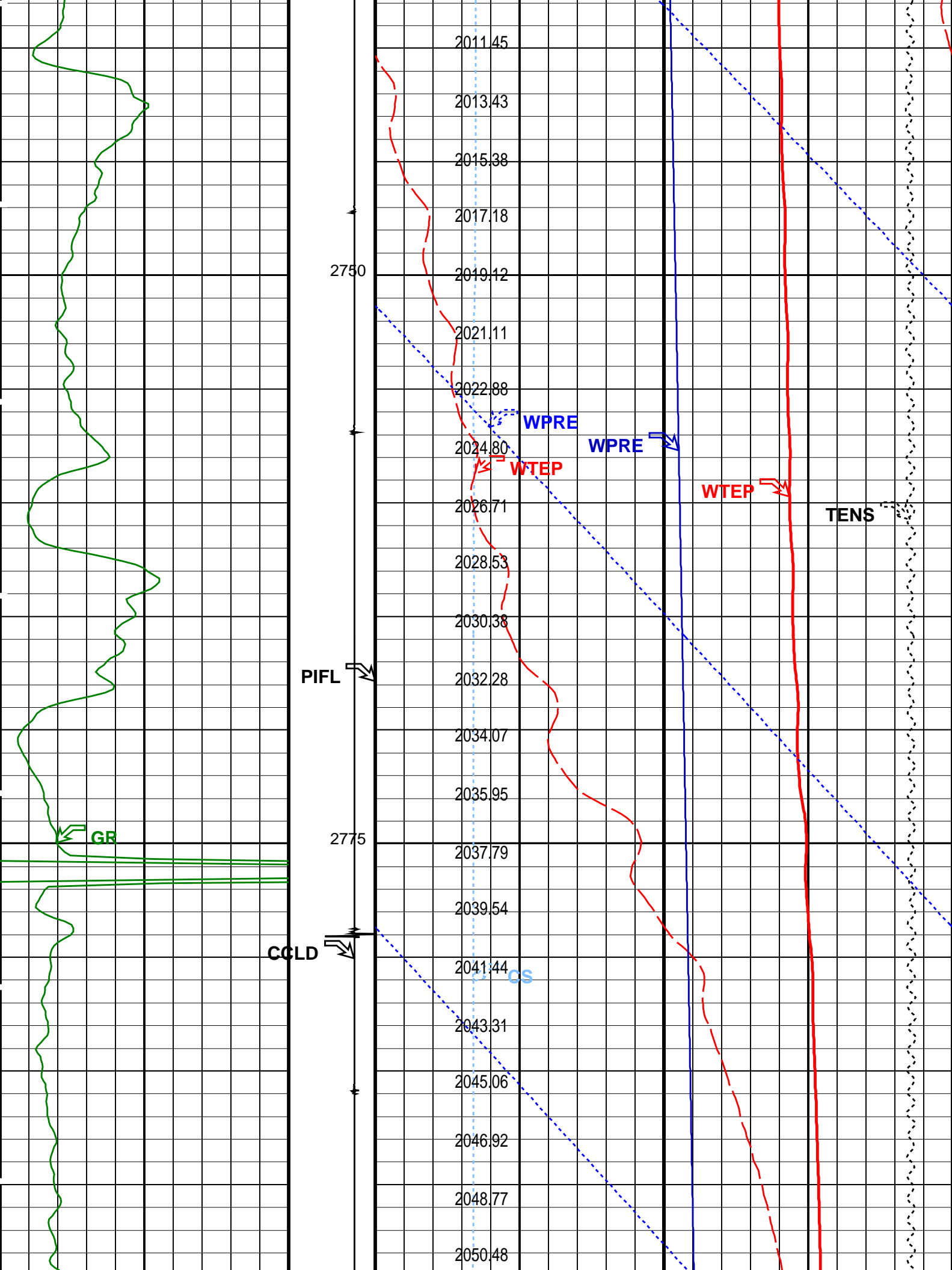


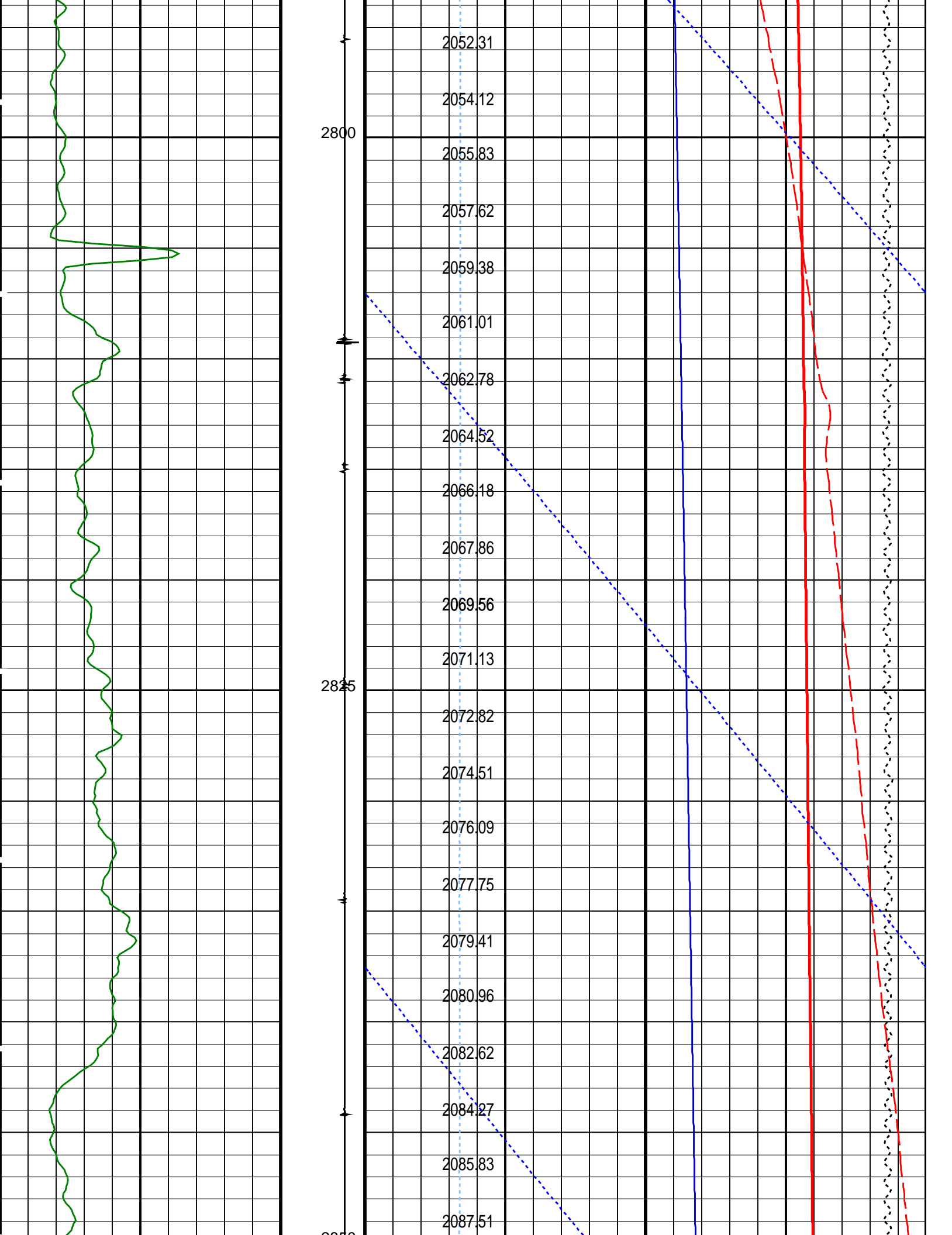


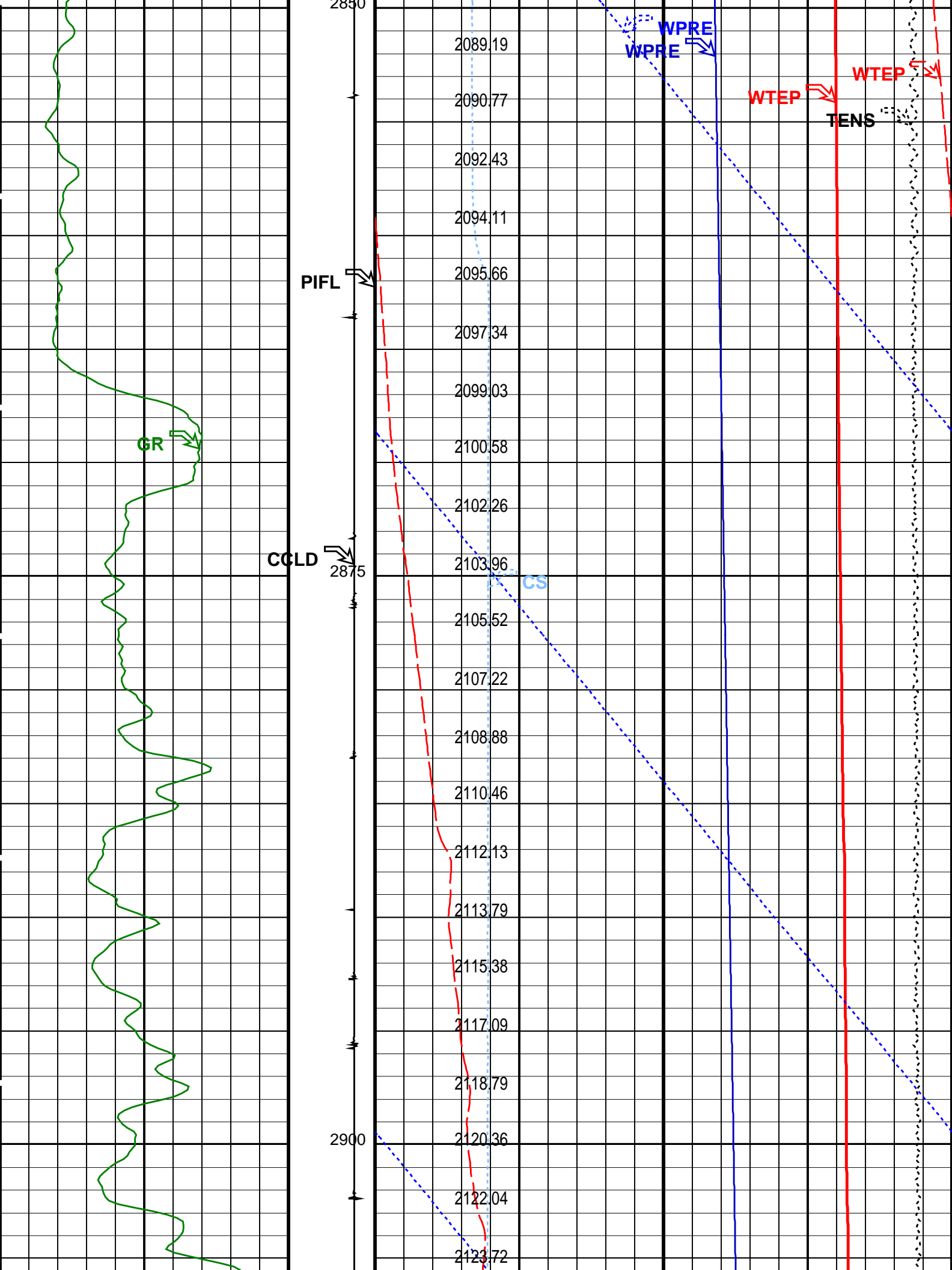


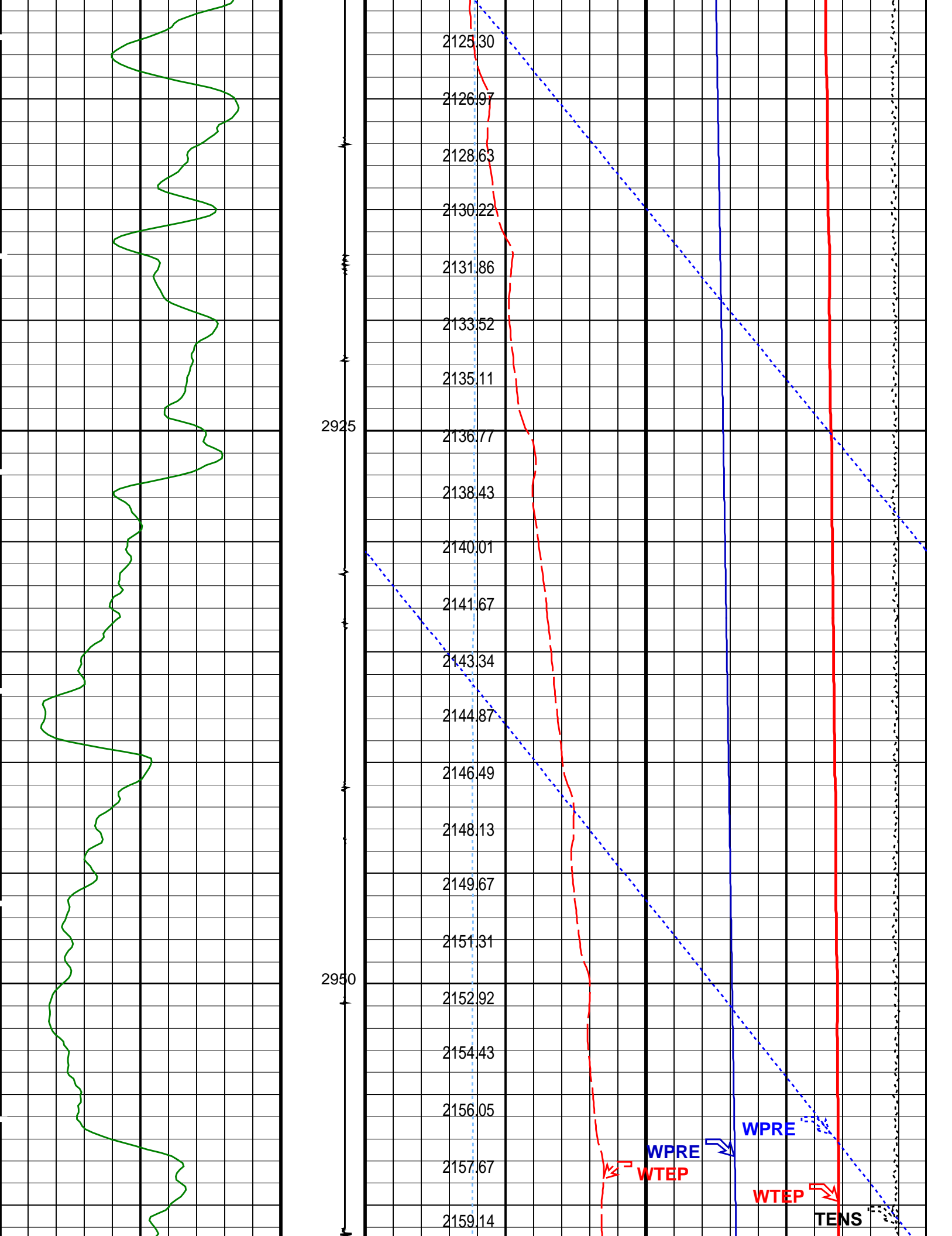


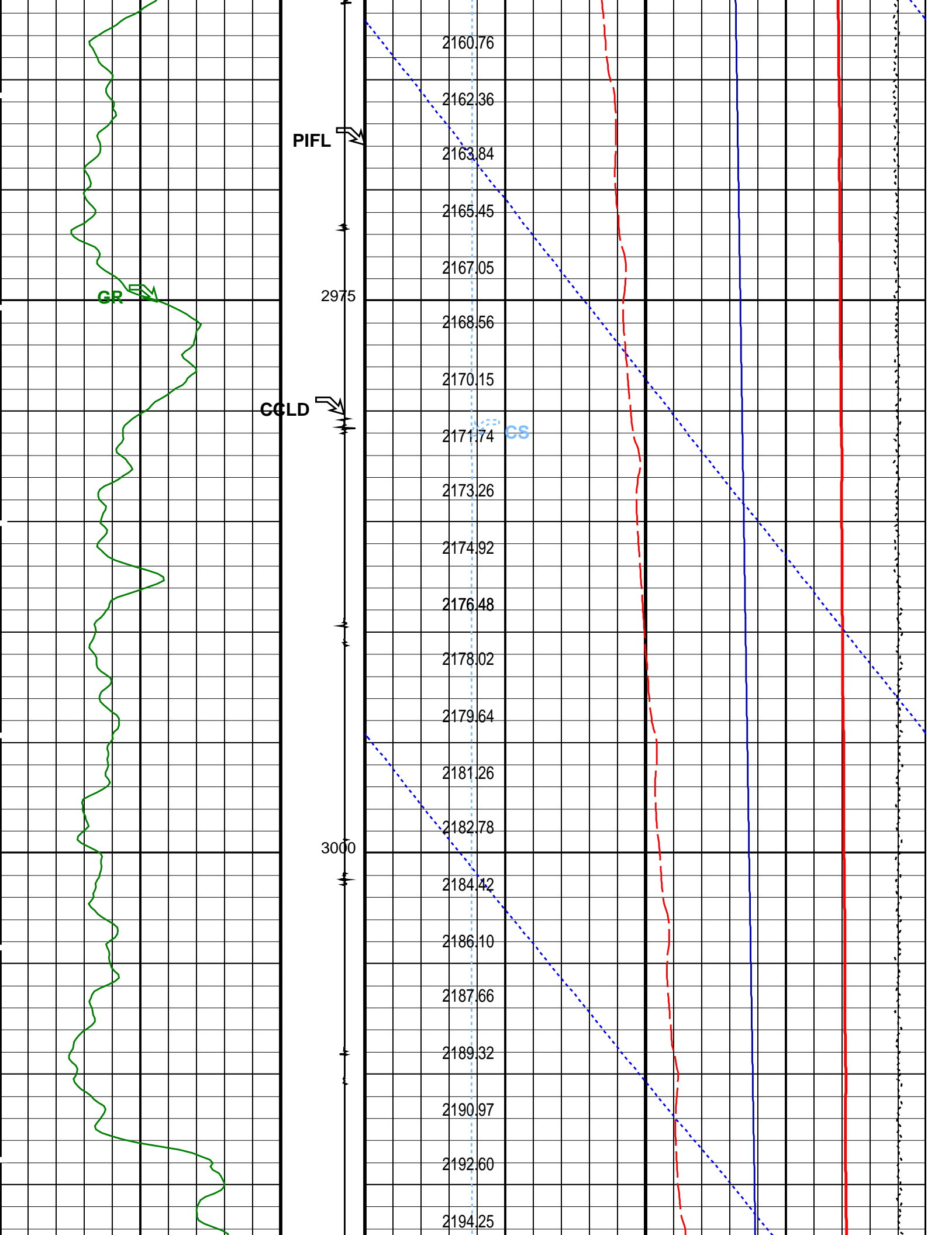


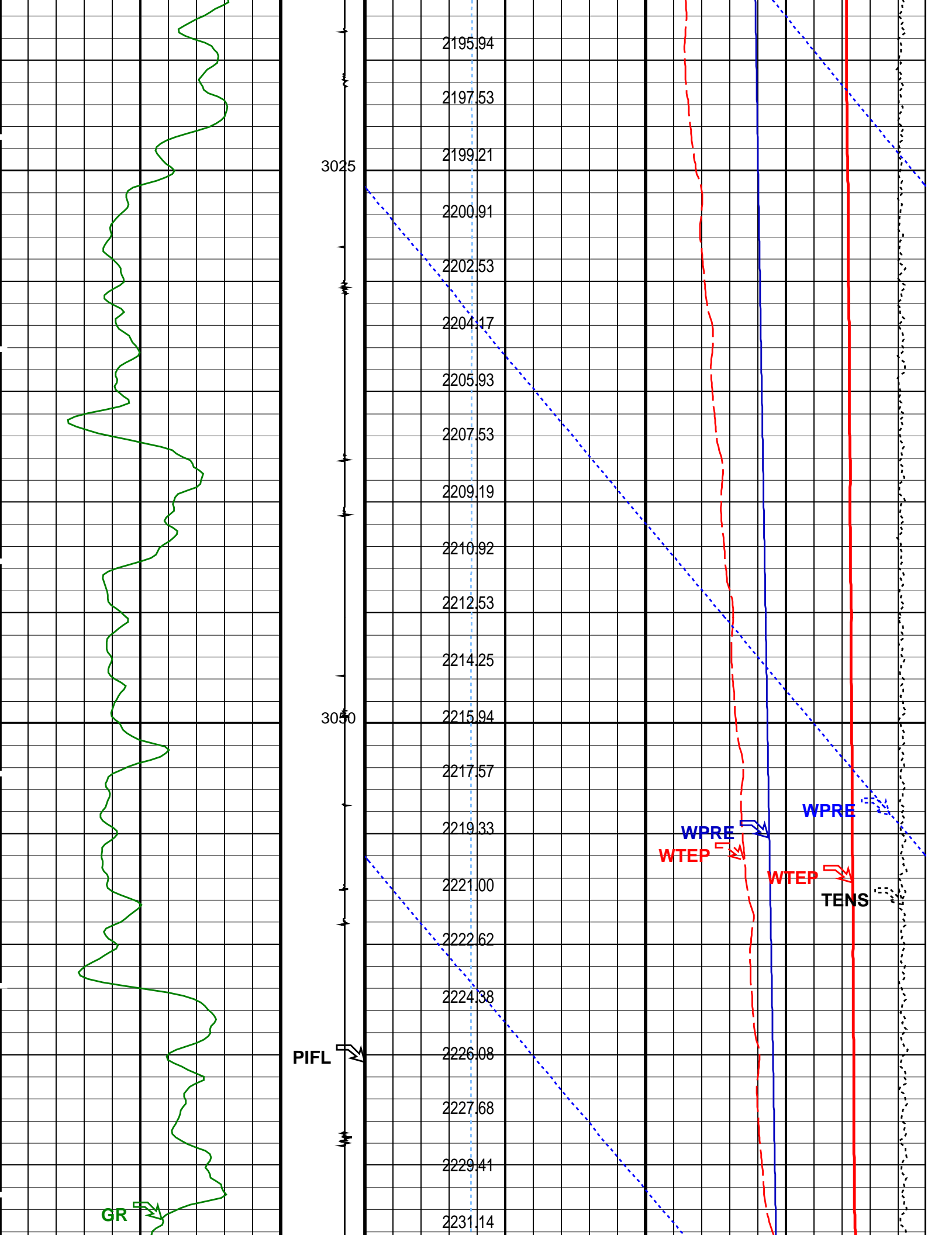




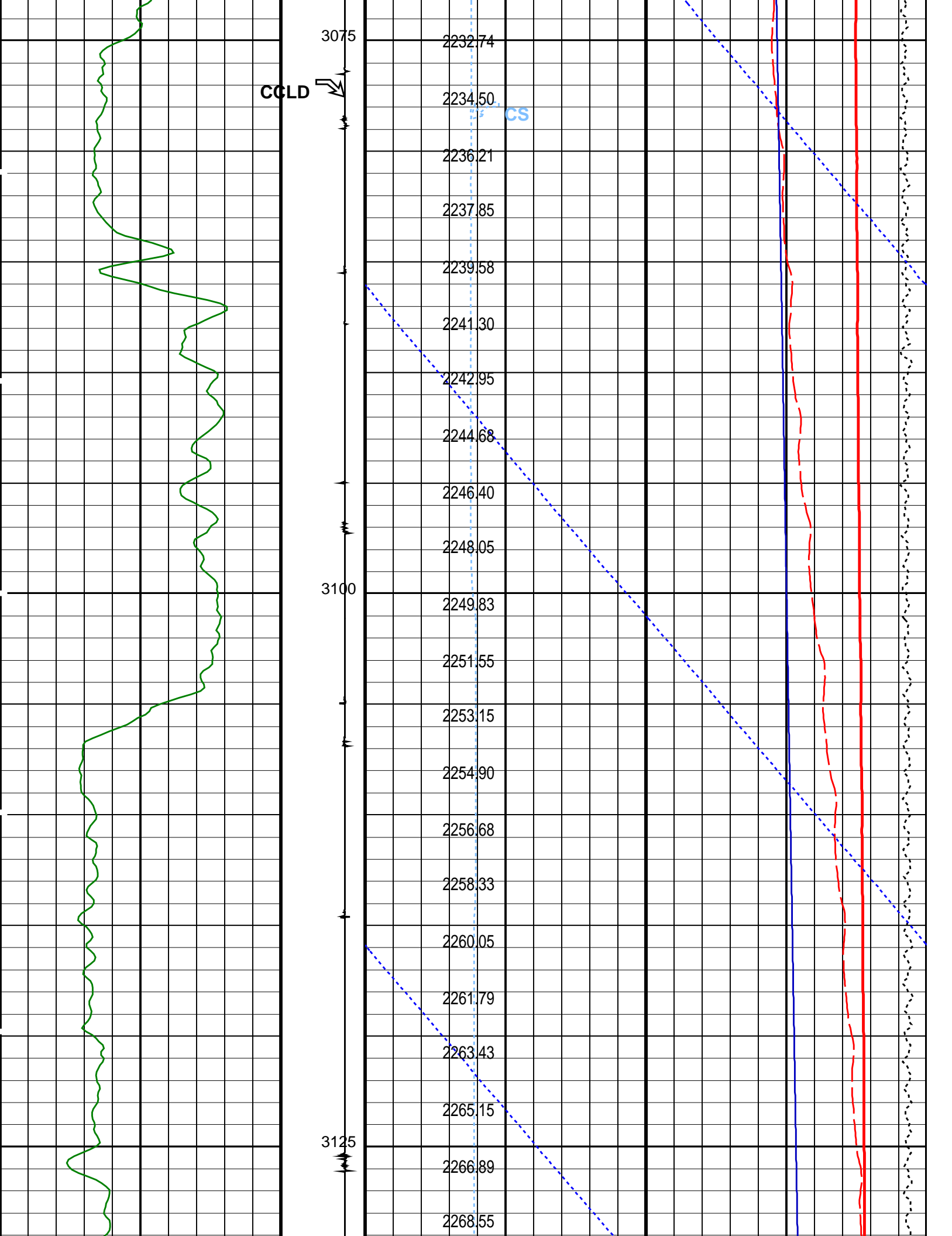


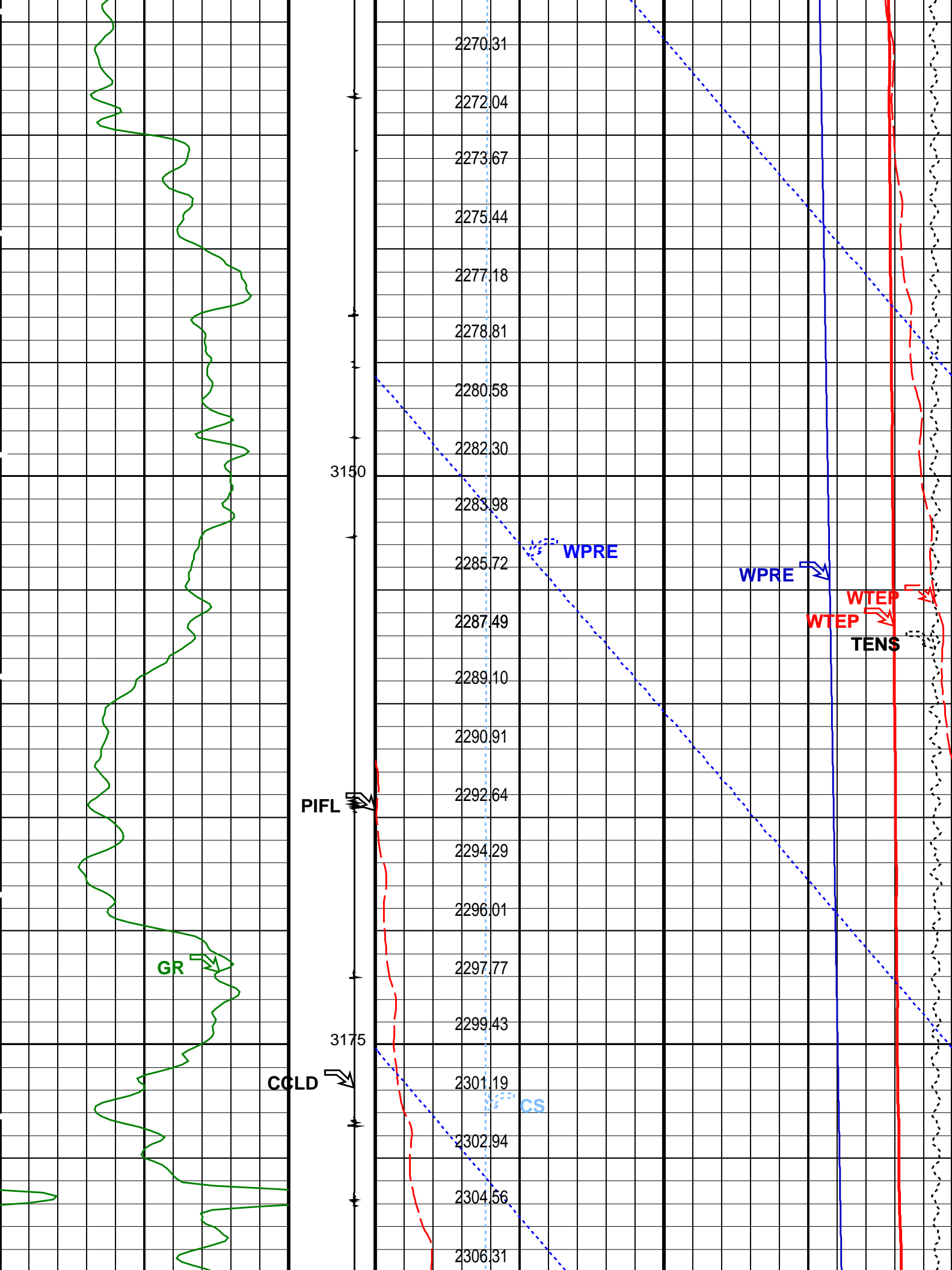


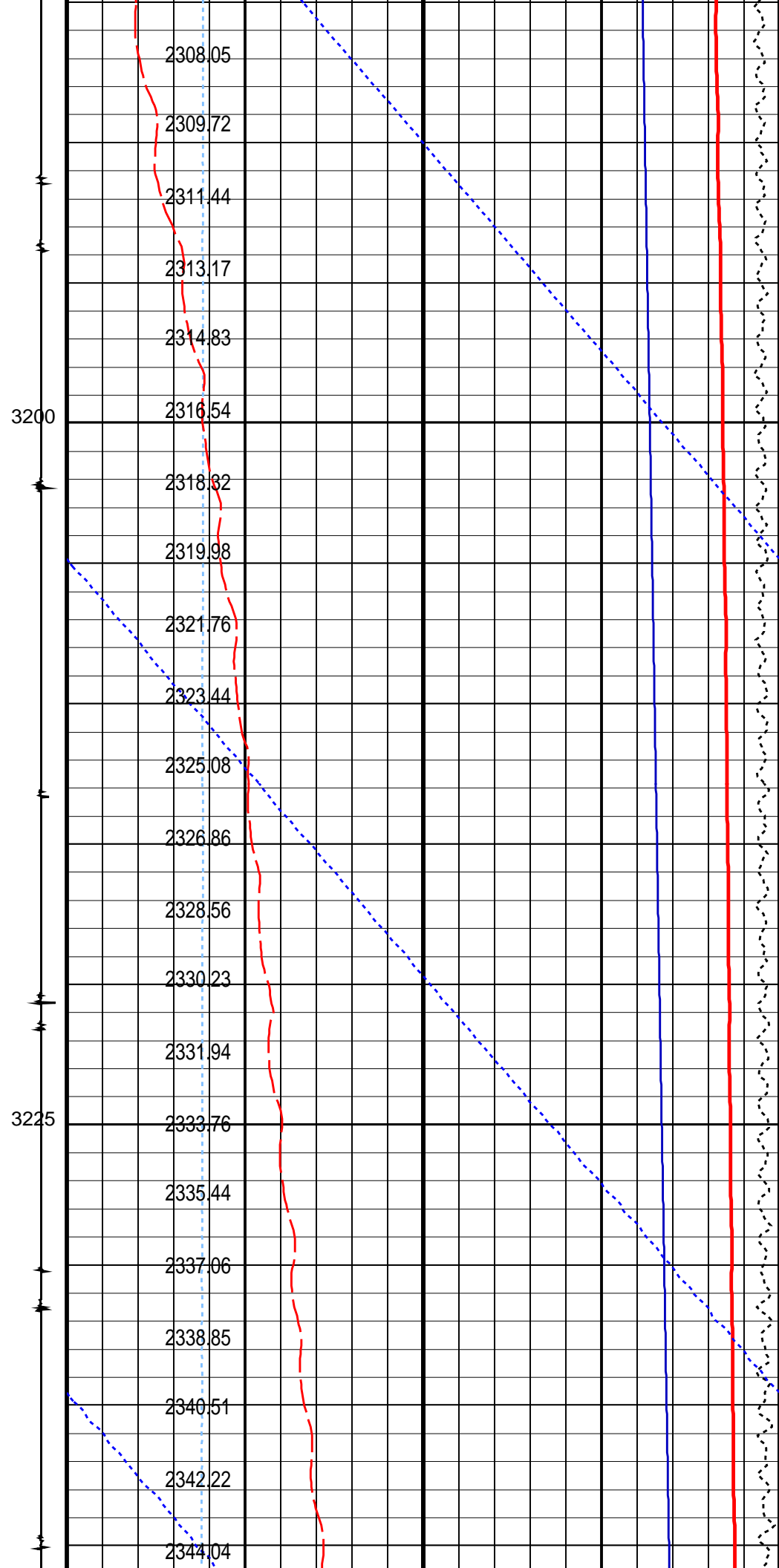
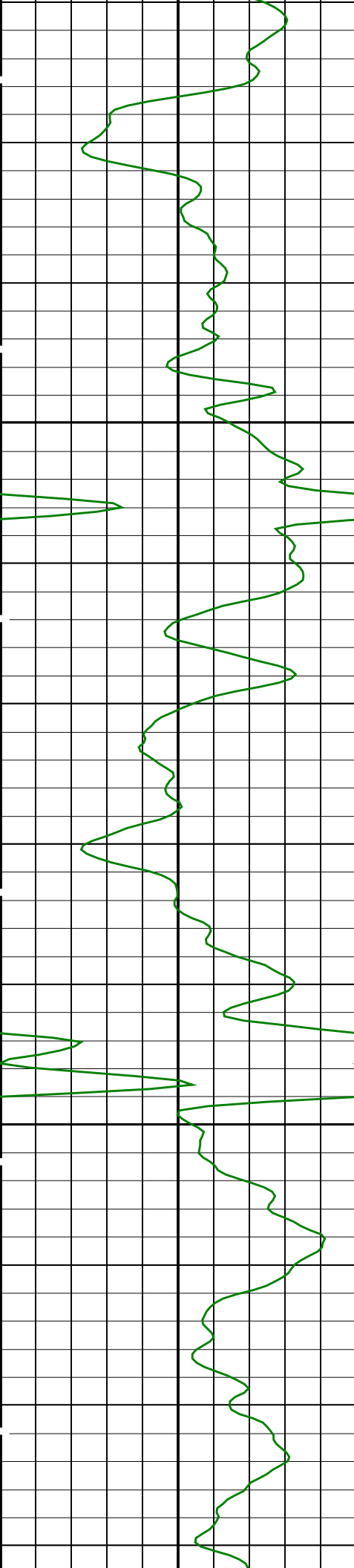


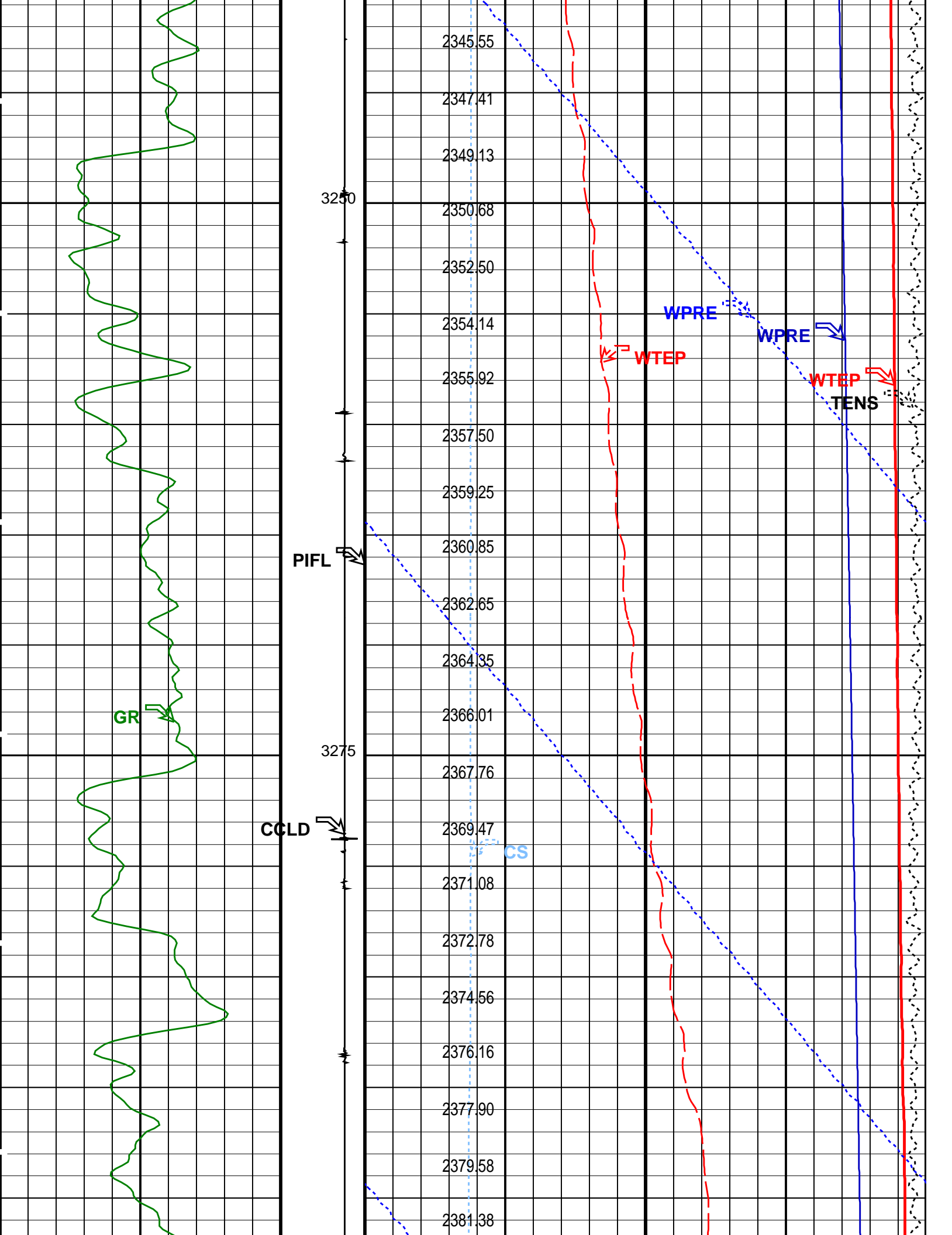


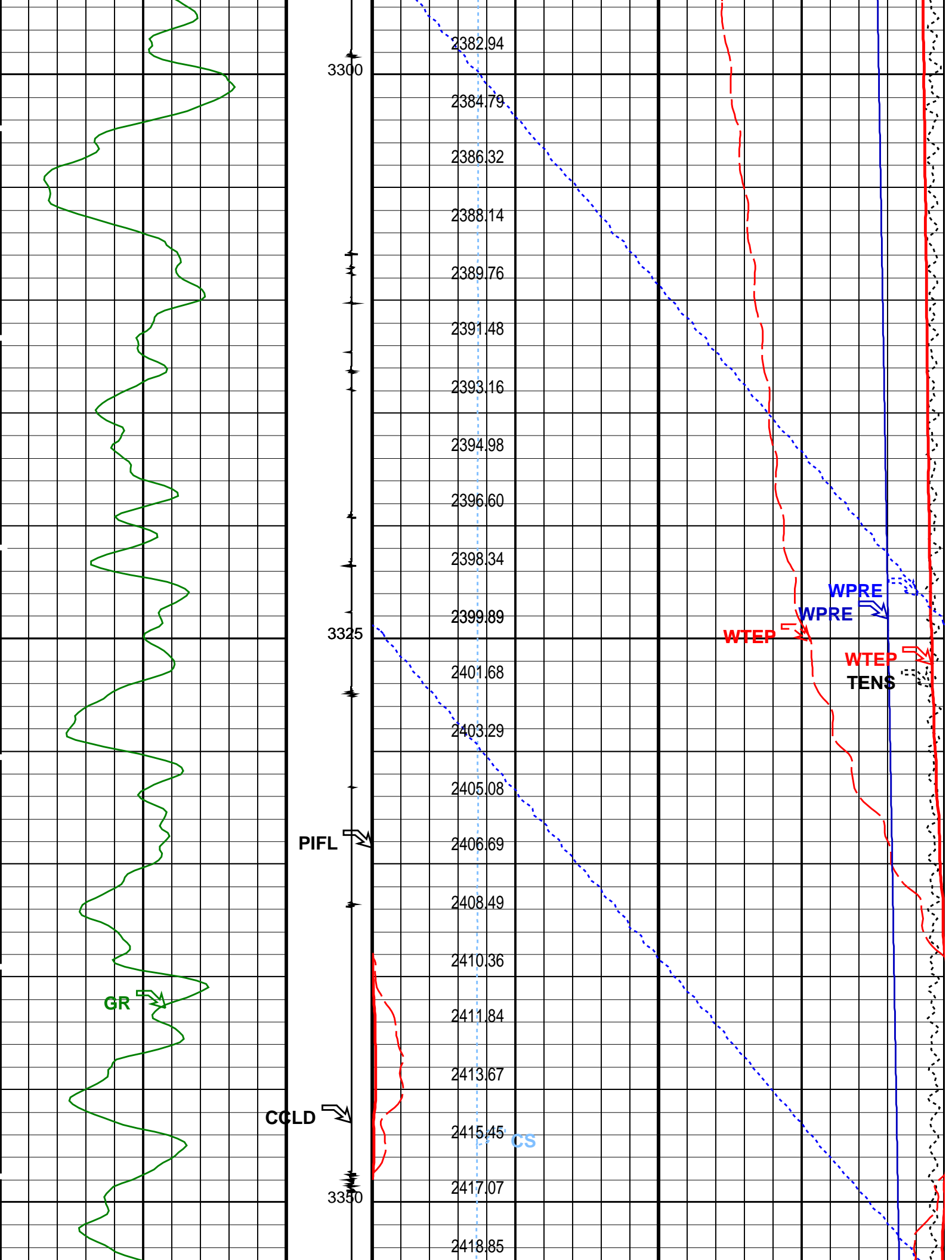


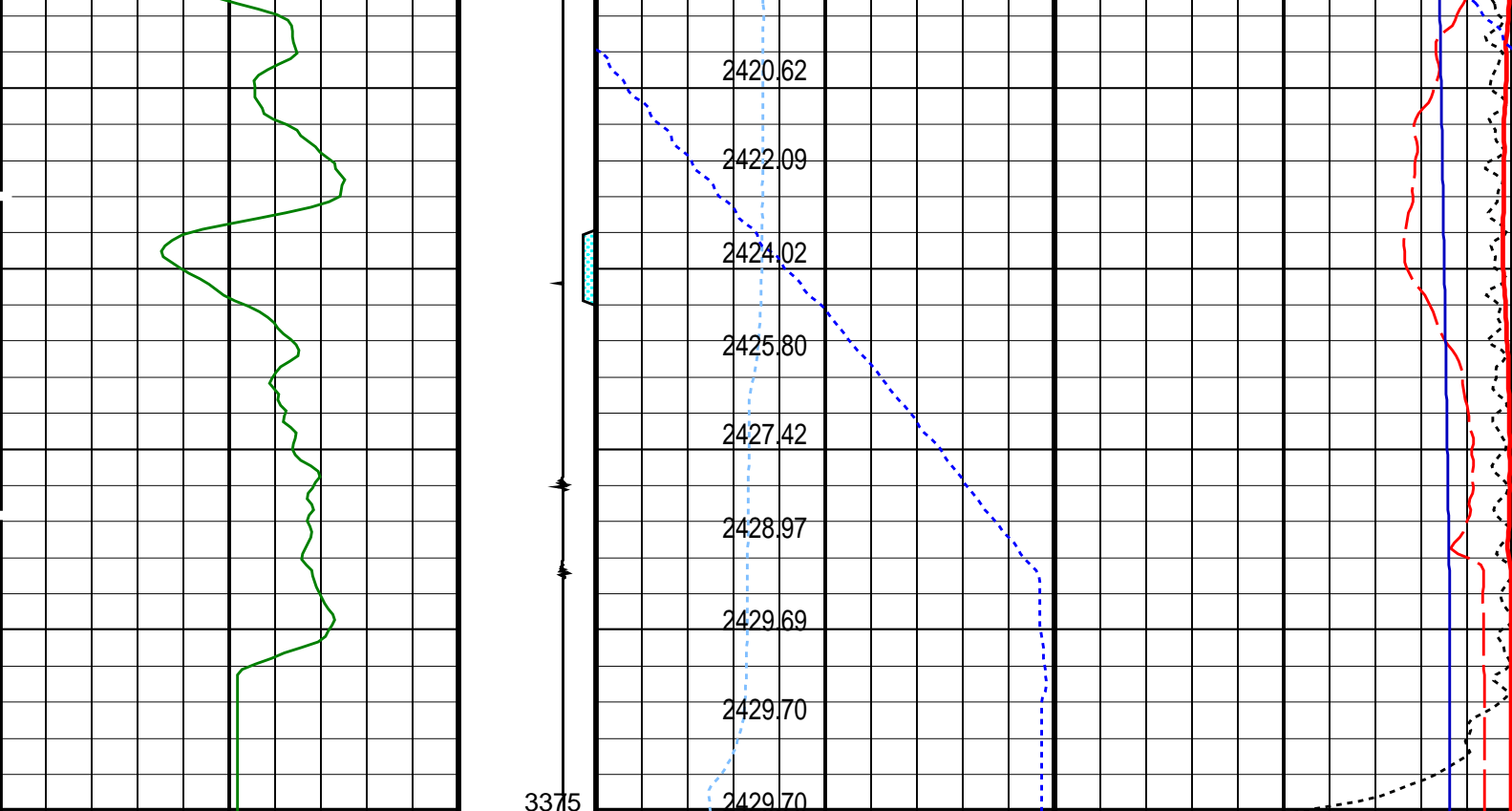












Gamma Ray (GR) (GAPI)	Discriminated CCL (CCLD) (V)	Cable Speed (CS) (F/HR)	Tension (TENS) (LBF)
0 150	3 -1	0 5000	0 2000

Perfo Zone From PERFO_CURVE to D3T	Well Temperature (WTEP) (DEGF)
	165 215

Well Pressure (WPRE) (PSIA)	Well Temperature (WTEP) (DEGF)
	0 5
Well Pressure (WPRE) (PSIA)	
1500 2500	
Amplified Well Pressure (WPRE) (PSIA)	
0 20	

PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1 Vertical Scale: 1:200 Graphics File Created: 02-Apr-2007 18:47

OP System Version: 14C0-302 MCM

PSPT-A/B 14C0-302

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

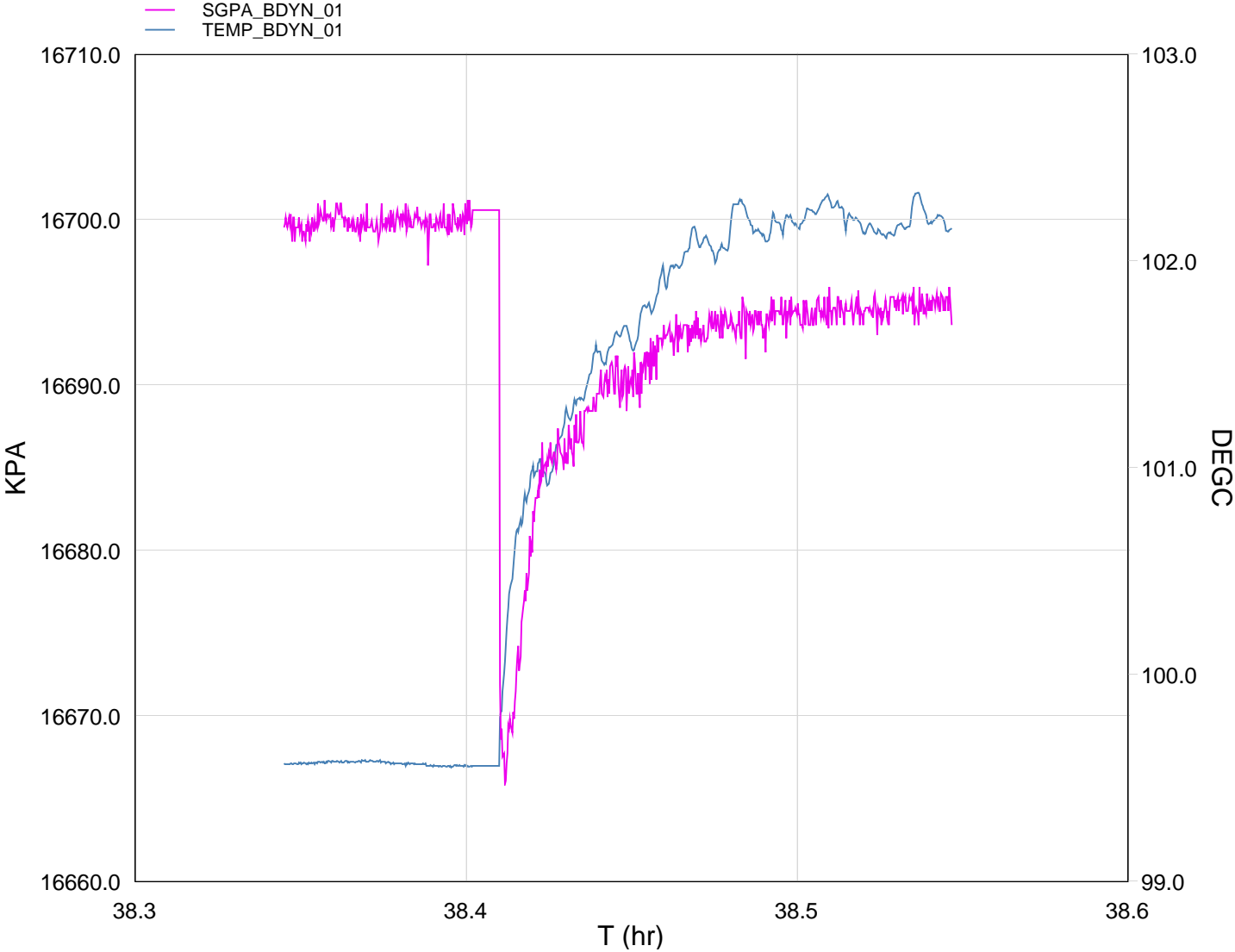
Input DLIS Files

Output DLIS Files



Gun # 2 Interval Perforated  
3343.5m to 3345.3m MDKB

MAXIS Field Log



TIME	PSIA	DEGF
2670.0	2422.0770	211.2266
2700.0	2422.0952	211.2281
2730.0	2422.2164	211.2403
2760.0	2422.1244	211.2175

2760.0	2422.1041	211.2475
2790.0	2422.0884	211.2246
2820.0	2422.1218	211.2270
2850.0	2422.1041	211.2106
2880.0	2422.2136	211.2097
2910.0	2417.2404	212.2319
2940.0	2419.4742	213.8051
2970.0	2420.0753	214.0664
3000.0	2420.4692	214.5773
3030.0	2420.7813	214.9857
3060.0	2420.8747	215.2083
3090.0	2421.0746	215.5655
3120.0	2421.1479	215.7528
3150.0	2421.3174	215.7012
3180.0	2421.1386	215.8430
3210.0	2421.3398	215.8828
3240.0	2421.2691	216.0611
3270.0	2421.3692	216.1162
3300.0	2421.3760	215.8487
3330.0	2421.3830	215.8361
3360.0	2421.4880	216.1855
3390.0	2421.3398	215.8659



Shooting Pass

MAXIS Field Log

Company: Esso Australia Pty LtdWell: A-17a

Output DLIS Files

DEFAULTPERFO\_036LUPFN:31PRODUCER02-Apr-2007 14:16

OP System Version: 14C0-302MCM

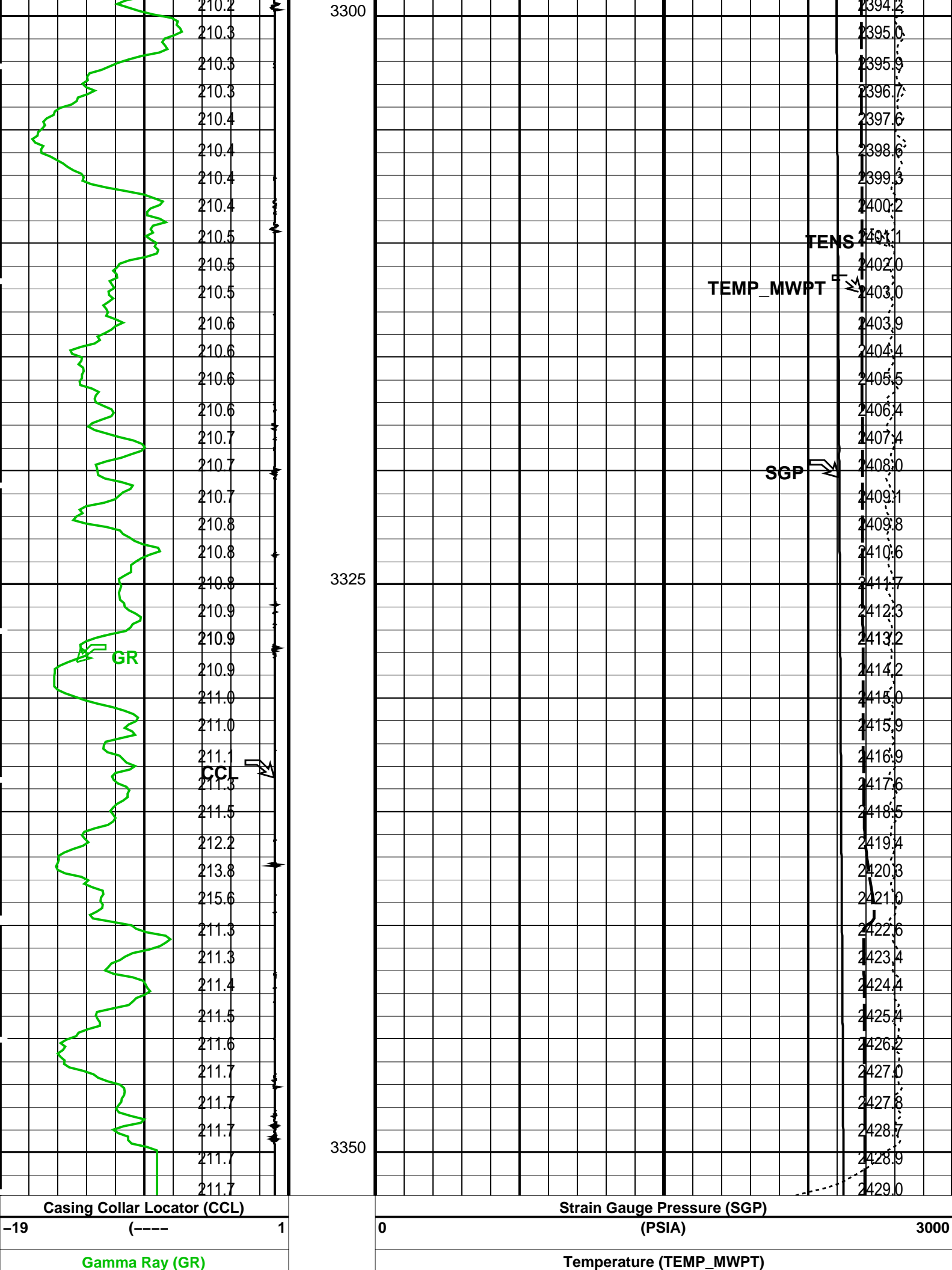
MWP\_GUN14C0-302MWPT-CA14C0-302MWGT-AA14C0-302

PIP SUMMARY

Time Mark Every 60 S

Temperature (TEMP_MWPT) (DEGF)		Pressure (SGP) (PSIA)	
CCL From CCL to T1		Tension (TENS) (LBF)	
0		2500	
Gamma Ray (GR) (GAPI)		Temperature (TEMP_MWPT) (DEGF)	
0		250	
Casing Collar Locator (CCL)		Strain Gauge Pressure (SGP) (PSIA)	
-19		3000	





0	(GAPI)	150	0	(DEGF)	250
CCL From CCL to T1			Tension (TENS) (LBF)		
			0		2500
		Temperature (TEMP_MWPT) (DEGF)	Pressure (SGP) (PSIA)		

PIP SUMMARY					
Time Mark Every 60 S					

Parameters			
DLIS Name	Description	Value	
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL			
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0	DEG
FLD	Flow Line Density	1	G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS	
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0	DEGC
Format: MWP	Vertical Scale: 1:200	Graphics File Created: 02-Apr-2007 14:16	

OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Output DLIS Files					
DEFAULT	PERFO_036LUP	FN:31	PRODUCER	02-Apr-2007 14:16	

Schlumberger

Correlation Pass

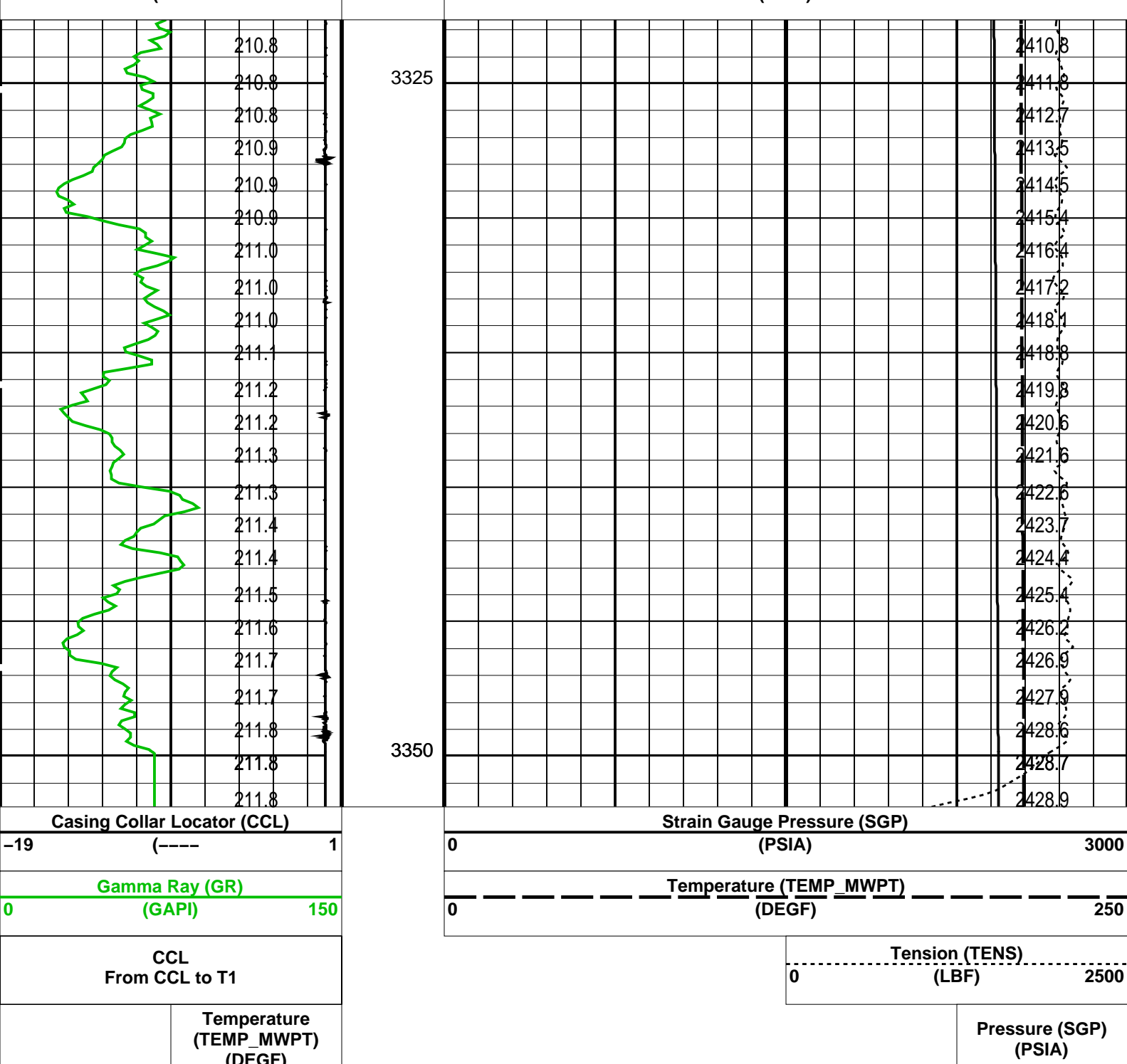
MAXIS Field Log

Company: Esso Australia Pty Ltd					Well: A-17a
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Output DLIS Files						
DEFAULT	PERFO_035LUP	FN:30	PRODUCER	02-Apr-2007 14:12	3351.9 M	3322.6 M
OP System Version: 14C0-302						
MCM						
MWP_GUN	14C0-302		MWPT-CA	14C0-302		
MWGT-AA	14C0-302					

PIP SUMMARY					
Time Mark Every 60 S					

	Temperature (TEMP_MWPT) (DEGF)				Pressure (SGP) (PSIA)
CCL From CCL to T1			Tension (TENS) 0 (LBF) 2500		
Gamma Ray (GR)					
0	(GAPI)	150	Temperature (TEMP_MWPT) 0 (DEGF) 250		
Casing Collar Locator (CCL)					
-19	(----	1	Strain Gauge Pressure (SGP) 0 (PSIA) 3000		



### PIP SUMMARY

Time Mark Every 60 S

### Parameters

DLIS Name	Description	Value
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL		
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0 DEG
FLD	Flow Line Density	1 G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0 DEGC

Format: MWP Vertical Scale: 1:200

Graphics File Created: 02-Apr-2007 14:12

### OP System Version: 14C0-302

MCM

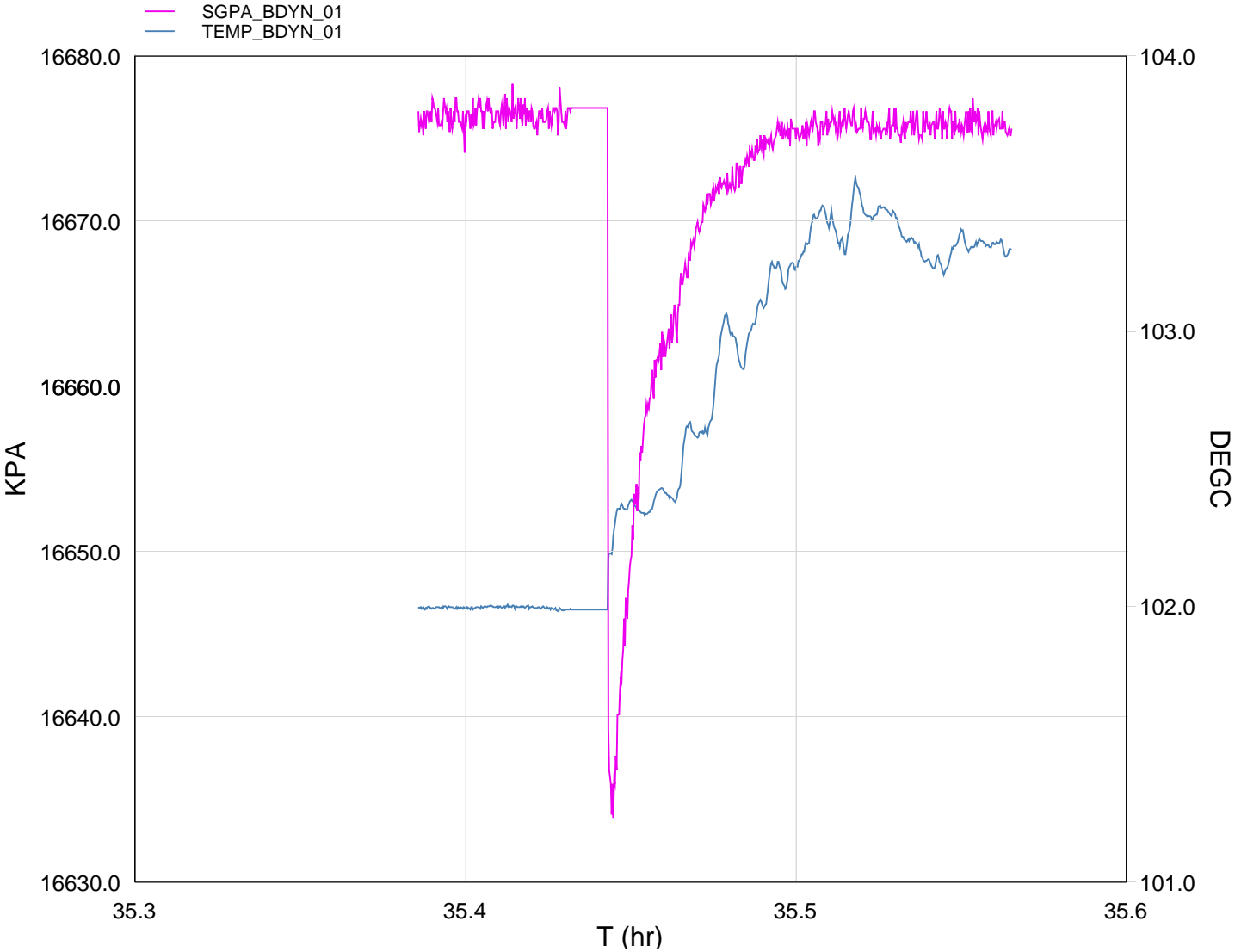
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

### Output DI IS Files



Gun # 1 Interval Perforated  
3348.5m to 3350m MDKB

MAXIS Field Log



TIME	DEGF	PSIA
3340.0	215.5815	2418.7410
3360.0	215.5872	2418.6210
3380.0	215.5853	2418.7710
3400.0	215.6002	2418.8484
3420.0	215.5905	2418.8484
3440.0	215.6036	2418.7503
3460.0	215.5999	2418.6572

3400.0	215.5999	2418.6372
3480.0	215.5921	2418.6372
3500.0	215.5795	2418.6874
3520.0	215.5815	2418.7710
3540.0	215.5815	2418.7710
3560.0	216.1707	2413.2722
3580.0	216.2669	2415.2748
3600.0	216.2554	2416.2354
3620.0	216.3210	2416.9283
3640.0	216.8049	2417.5462
3660.0	216.7192	2418.0042
3680.0	217.5298	2418.1783
3700.0	217.1712	2418.2834
3720.0	217.5746	2418.5115
3740.0	217.7937	2418.4218
3760.0	217.8646	2418.5794
3780.0	218.1288	2418.6261
3800.0	218.0478	2418.6504
3820.0	218.3619	2418.6002
3840.0	218.1477	2418.6071
3860.0	218.1612	2418.6469
3880.0	218.0021	2418.5968
3900.0	217.8726	2418.6164
3920.0	217.8066	2418.7001
3940.0	217.9922	2418.5392
3960.0	217.9867	2418.6435
3980.0	218.0032	2418.5898



Shooting Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd Well: A-17a

Output DLIS Files

DEFAULT PERFO\_029LUP FN:24 PRODUCER 02-Apr-2007 11:19 3359.7 M 3319.6 M

OP System Version: 14C0-302

MCM

MWP\_GUN 14C0-302 MWPT-CA 14C0-302  
MWGT-AA 14C0-302

PIP SUMMARY

☒ Time Mark Every 60 S

Temperature  
(TEMP\_MWPT)  
(DEGF)

Pressure (SGP)  
(PSIA)

CCL  
From CCL to T1

Tension (TENS)  
(LBF)

0 2500

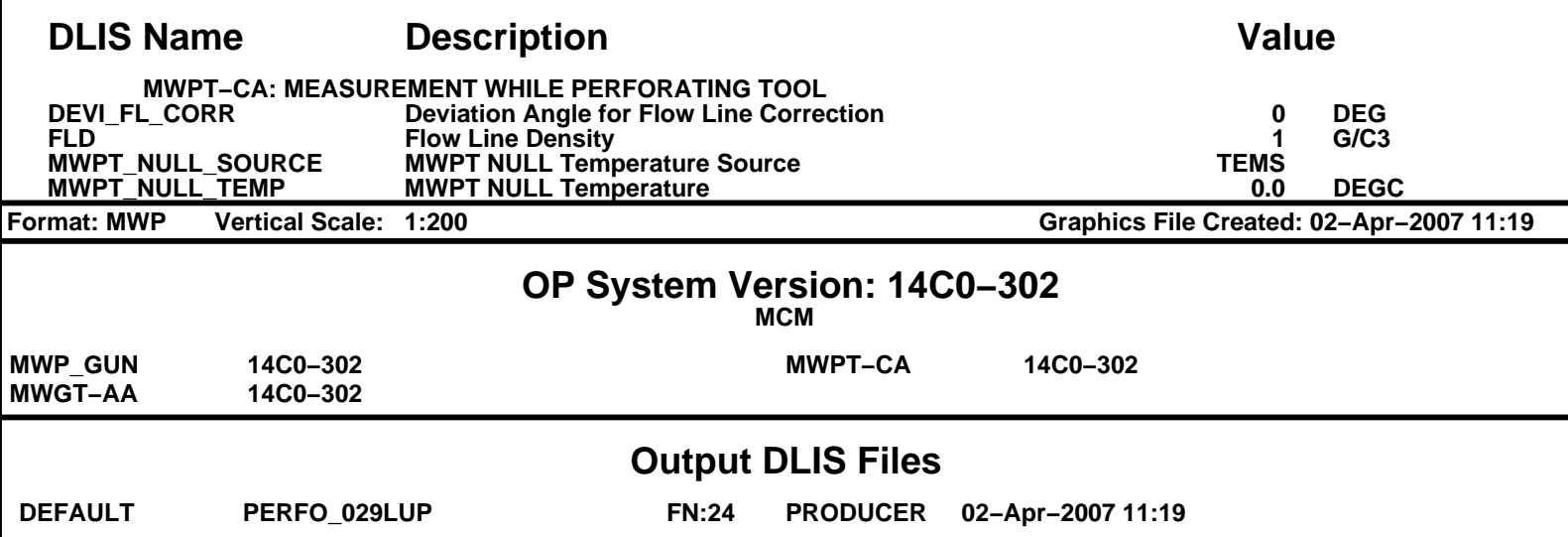
Gamma Ray (GR)  
(GAPI)

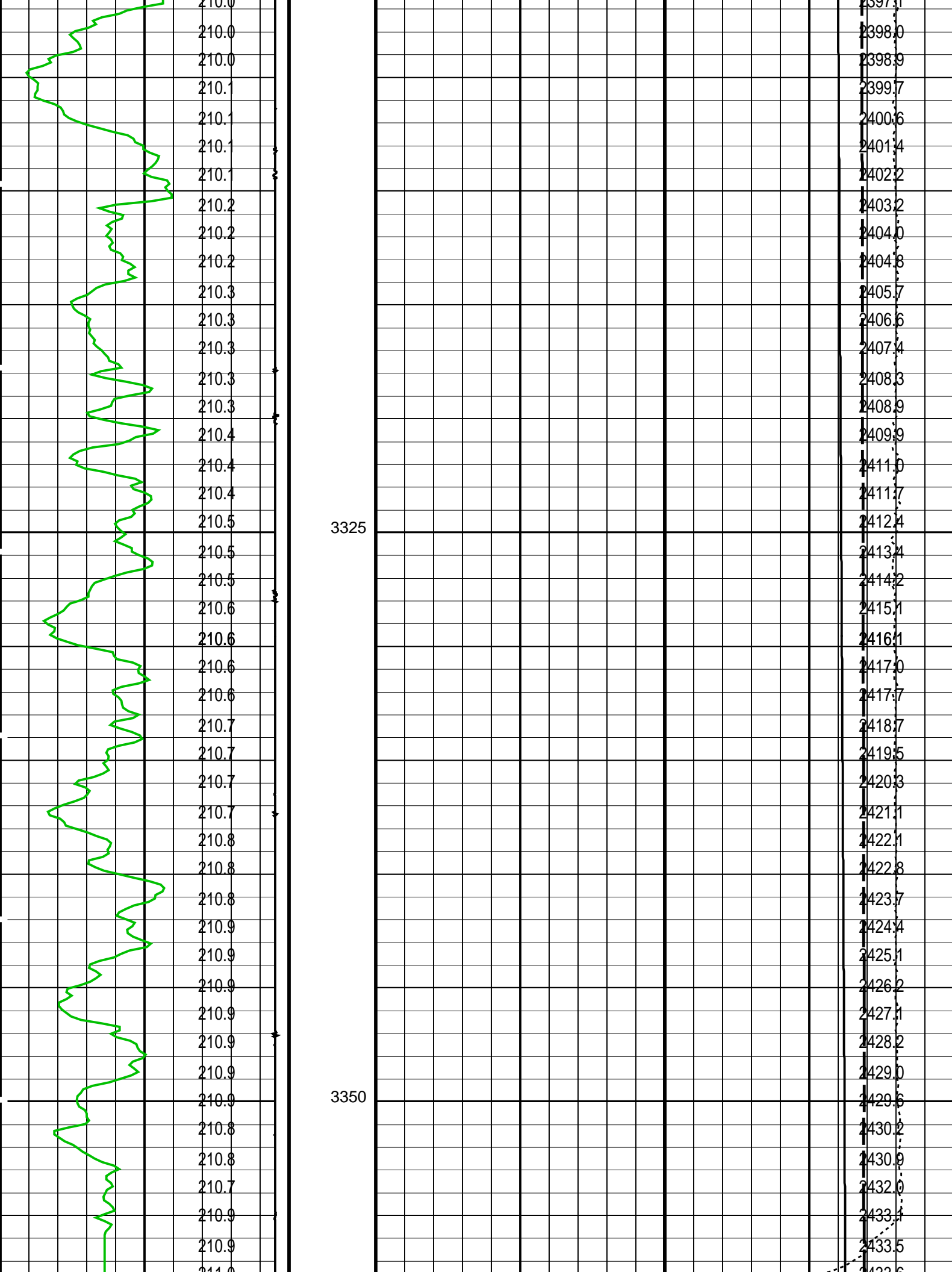
0 150

Temperature (TEMP\_MWPT)  
(DEGF)

0 250









Casing Collar Locator (CCL)		Strain Gauge Pressure (SGP)	
-19	(----	0	(PSIA) 3000
Gamma Ray (GR)		Temperature (TEMP_MWPT)	
0	(GAPI) 150	0	(DEGF) 250
CCL From CCL to T1		Tension (TENS)	
		0	(LBF) 2500
	Temperature (TEMP_MWPT) (DEGF)	Pressure (SGP) (PSIA)	

PIP SUMMARY			
Time Mark Every 60 S			

Parameters			
DLIS Name	Description	Value	
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL			
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0	DEG
FLD	Flow Line Density	1	G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS	
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0	DEGC
System and Miscellaneous			
DO	Depth Offset for Playback	-1.8	M
PP	Playback Processing	NORMAL	

Format: MWP	Vertical Scale: 1:200	Graphics File Created: 02-Apr-2007 11:07
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OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Input DLIS Files						
DEFAULT	PERFO_026LUP	FN:21	PRODUCER	02-Apr-2007 10:57	3359.7 M	3296.7 M
Output DLIS Files						
DEFAULT	PERFO_027PUP	FN:22	PRODUCER	02-Apr-2007 11:07		

Company:	Esso Australia Pty Ltd	Schlumberger
Well:	A-17a	
Field:	Tuna	
Rig:	Crane/Prod 4	
Country:	Australia	
MWPT 2 1/8" Powerjet Perforation		
4.5" Posiset Plug		
GR Survey		