

Company: Esso Australia Pty Ltd.

Well: A-15a

Field: Tuna

Rig: Crane / Prod 4 Country: Australia

2-1/8" Phased Powerjet MWPT
Perforation Record
7" Posiset Plug Setting Record

Rig: Crane / Prod 4
Field: Tuna
Location: Gippsland
Well: A-15a
Company: Esso Australia Pty Ltd.

LOCATION		
Gippsland	Elev.:	K.B. 26.60 m
Basin		G.L. 91.40 m
Bass Strait		D.F. 26.60 m
Permanent Datum:	M.S.L.	Elev.: 0.00 m
Log Measured From:	K.B.	26.60 m above Perm. Datum
Drilling Measured From:	K.B.	
State: Victoria	Max. Well Deviation 61 deg	Longitude 148° 25' 05.29"E
		Latitude 38° 10' 16.00"S

Logging Date	18-Nov-2008		
Run Number	1 through 5		
Depth Driller	3045 m		
Schlumberger Depth	3045 m		
Bottom Log Interval	3035 m		
Top Log Interval	2550 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level	1735 m		
BIT/CASING/TUBING STRING			
Bit Size	8.500 in		
From	535 m		
To	3273 m		
Casing/Tubing Size	7.000 in		
Weight	26 lbm/ft		
Grade	L-80		
From	13.34 m		
To	3273 m		
Maximum Recorded Temperatures	217 degF		
Logger On Bottom	18-Nov-2008		15:00
Unit Number	889	Prod 4 / AUSL	
Recorded By	S Gilbert		
Witnessed By	B White		

Run 1		
Oil Density		
Water Salinity		
Gas Gravity		
Bo		
Bw		
1/Bq		
Bubble Point Pressure		
Bubble Point Temperature		
Solution GOR		
Maximum Deviation	61 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		

DEPTH SUMMARY LISTING

Date Created: 17-NOV-2008 8:13:25

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-EB Serial Number: 6373 Calibration Date: 04-jan-2007 Calibrator Serial Number: 9 Calibration Cable Type: 2-32ZT Wheel Correction 1: -2 Wheel Correction 2: -4	Type: PSDS/OSDS Serial Number: 325337 Calibration Date: 4-Nov-2008 Calibrator Serial Number: 1174 Calibration Gain: 0.90 Calibration Offset: -115.00	Type: 2-32ZT Serial Number: 207308 Length: 6450 M Conveyance Method: Wireline Rig Type: Rigless

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Composite Log
Reference Log Run Number:	
Reference Log Date:	
Subsequent Trip Down Log Correction:	

Depth Control Remarks

1. IDW-EB 6373 used as primary depth control.
2. Z-Chart as Backup
3.
4.
5.
6.

DISCLAIMER

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OTHER SERVICES1
OS1: None
OS2:
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil Solar Composite Log supplied with logging program.
Objectives: Set a 7" Posiset plug with top of seal at 3035 m MDKB then dump approximately 1m of cement on top.
Perforate the well over the interval 2796.5m to 2797.5m MDKB using a 2-1/8" 6 SPF, 45 deg phased Powerjet gun with MWPT.
Maximum Deviation = 61deg @ 2340m MDKB
Top of seal @ 3035 m MDKB
CCL to top of seal = 7m
CCL Stop Depth: 3028 m MDKB

Schlumberger crews: C Shiells, G Blandford

STOP

RUN 2

MPBM

MWPM-AA

DOWNHOLE EQUIPMENT

SWBS-B 788

12.90

SWBS-B 789

12.21

SWBS-B 785

11.53

SWBS-B 786

10.84

SWBS-B 787

10.16

SWHS-A 759

9.47

CCL-L 359
CCL-L 359

TOOL ZERO 9.13

MPSU-CA 1011
MPSU-CA 1011

8.67

SWBS-B 789

12.39

SWBS-B 788

11.70

SWBS-B 787

11.01

SWBS-B 786

10.33

SWBS-B 785

9.64

SWHS-A 759

8.96

AH-124 7002

8.63

MWGT-AA 19
MWPG-AA 19
MWGH-AA 19

8.53

MWPG GR

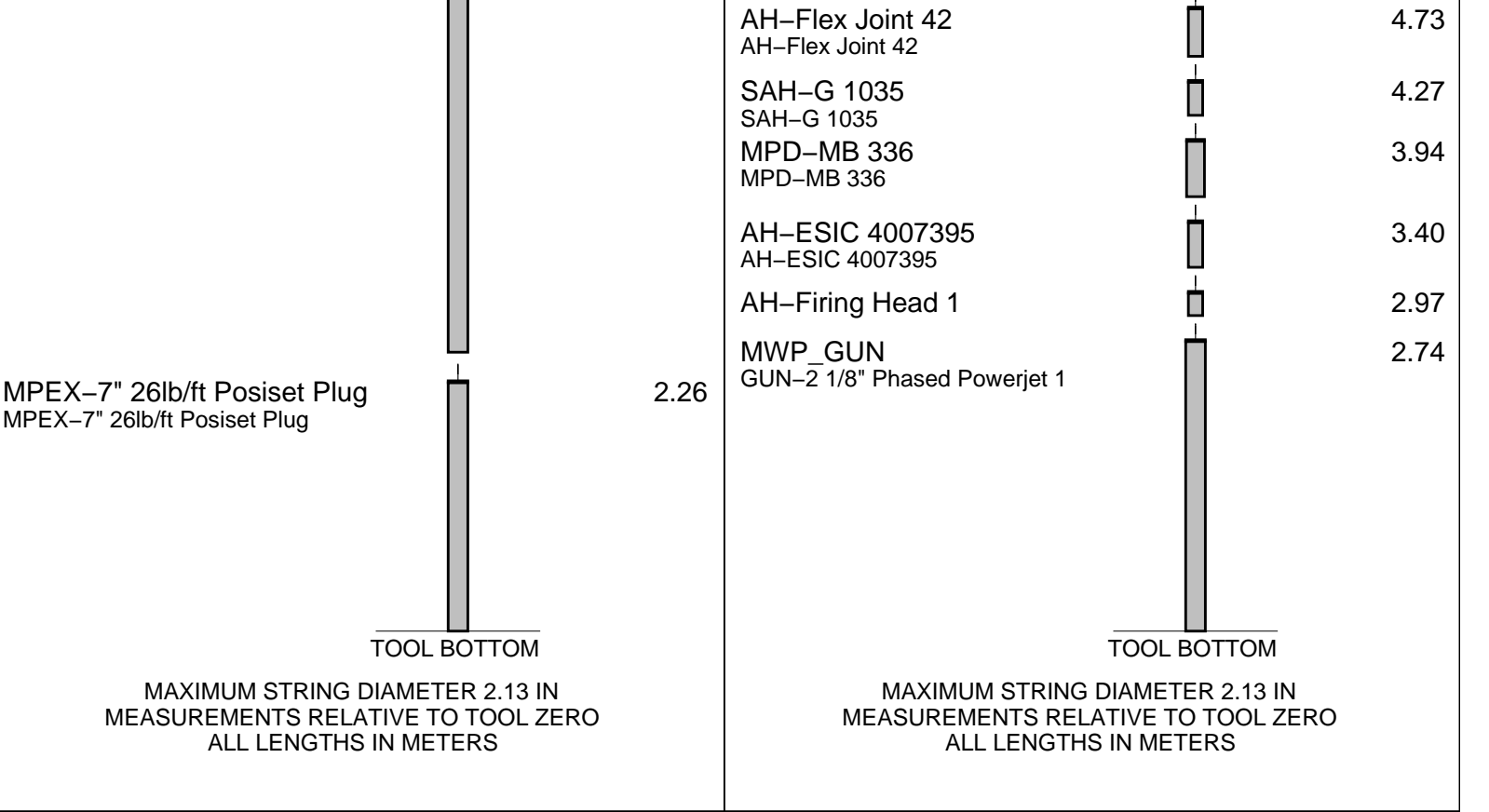
2.41

MWPT-CA 11
MWPH-AA 94
MWPS-AA 11

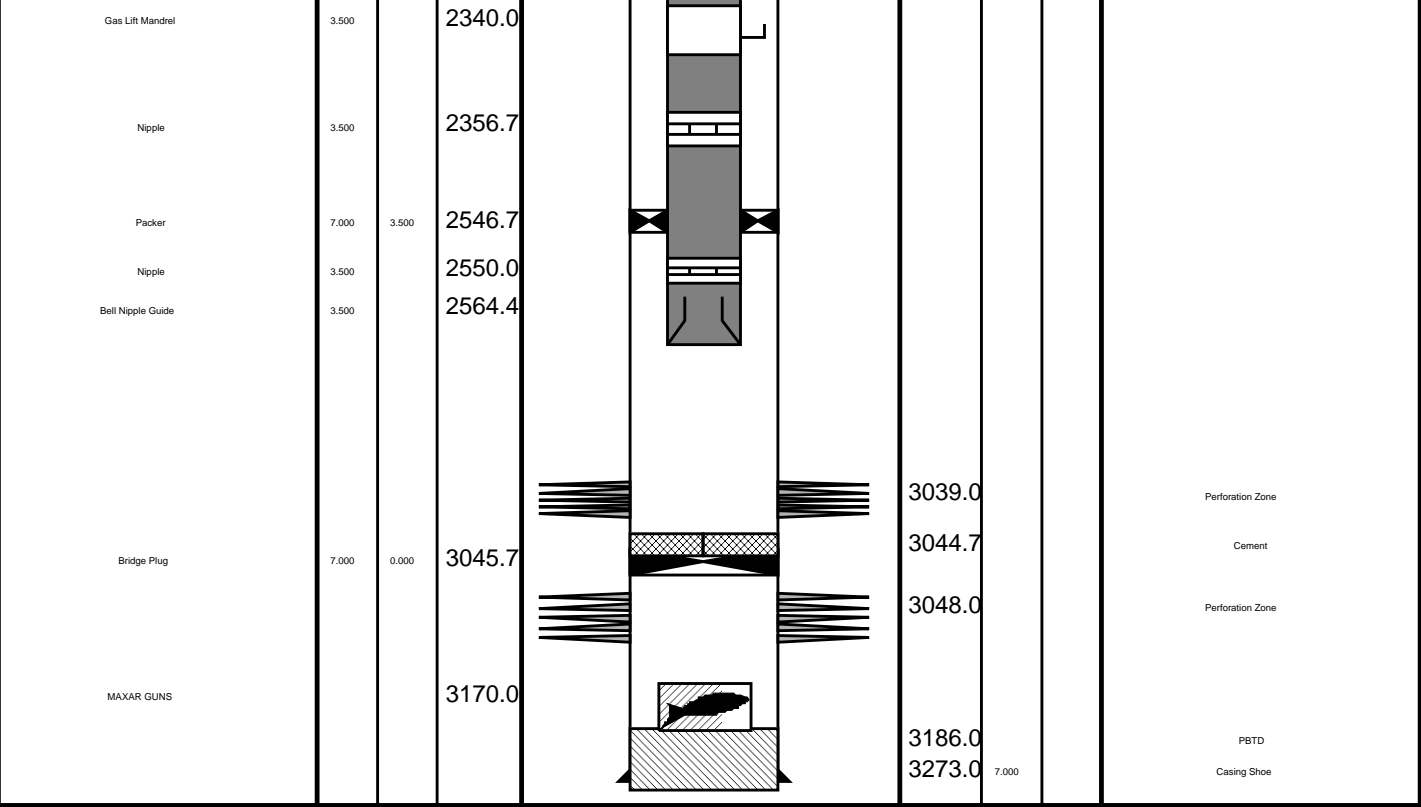
7.55

CCL
SMWP Pres
SMWP Temp
Tension

___ TOOL ZERO



Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger Tubing	7.000	3.500	12.2		14.4	13.375	Casing String Casing String Liner Hanger	
	3.500		12.2		13.3	7.000		
SSSV			447.0		13.3	13.375	7.000	
	3.500				550.0	13.375		
Gas Lift Mandrel			1278.0					
	3.500							



Job Events Summary

MAXIS Field Log

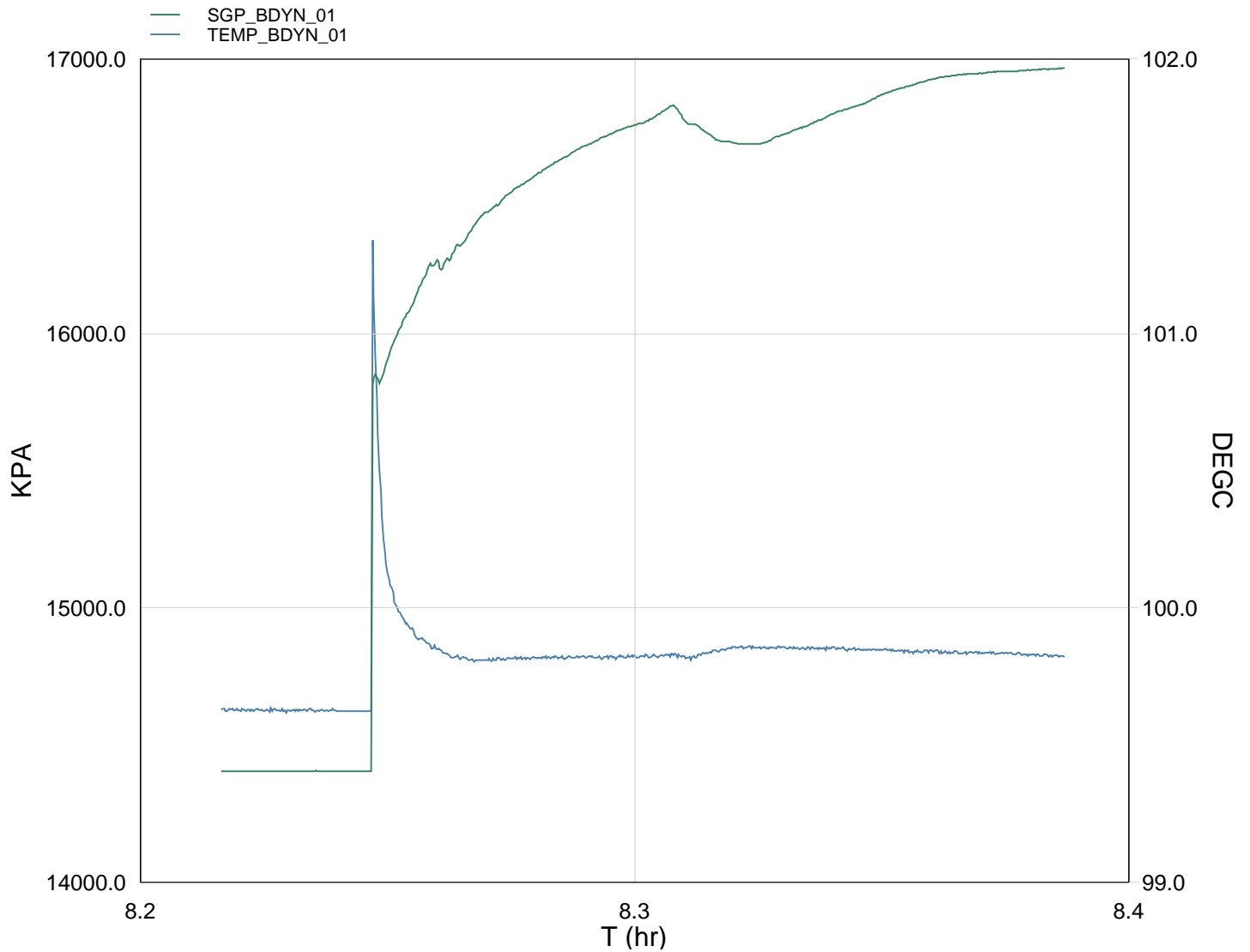
Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Log Pass (up)	18-Nov-2008 14:52	000:34	3052.9 - 2476.3	PSP_020LUP
Log Pass (up)	19-Nov-2008 7:51	000:04	2593.1 - 2562.1	MPBT_034LUP
Log Pass (up)	19-Nov-2008 8:06	000:05	3019.7 - 2984.3	MPBT_036LUP
Log Pass (up)	19-Nov-2008 8:13	000:07	3025.3 - 2992.2	MPBT_037LUP
Simulated Log	19-Nov-2008 8:25	000:26		MPBT_038LUP
Log Pass (up)	19-Nov-2008 8:51	000:06	3027.9 - 2974.1	MPBT_039LUP
Log Pass (up)	19-Nov-2008 11:17	000:07	3026.4 - 2974.7	PERFO_043LUP
Log Pass (up)	19-Nov-2008 13:17	000:08	3025.6 - 2971.2	PERFO_046LUP
Log Pass (up)	20-Nov-2008 8:00	000:05	2816.4 - 2772.3	PERFO_056LUP
Log Pass (up)	20-Nov-2008 8:07	000:19	2817.6 - 2770.8	PERFO_057LUP
Station Log	20-Nov-2008 8:12	000:10	2793.0 - 1.6	PERFO_058LTP



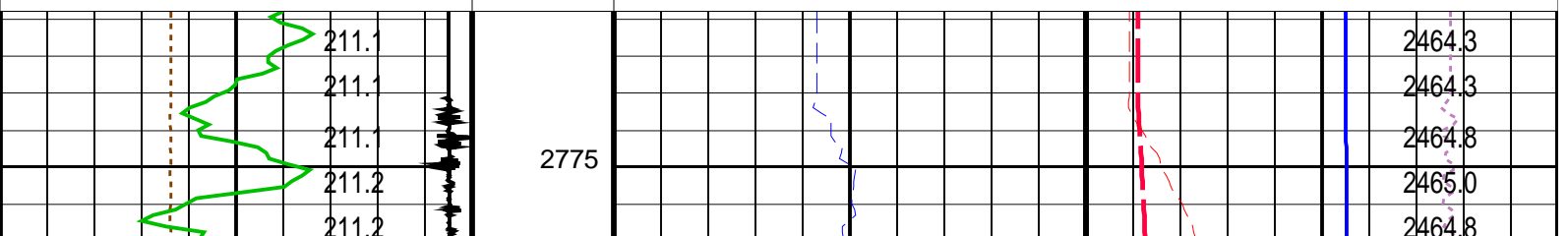
Gun # 1 Fired @
2796.5m to 2797.5m MDKB

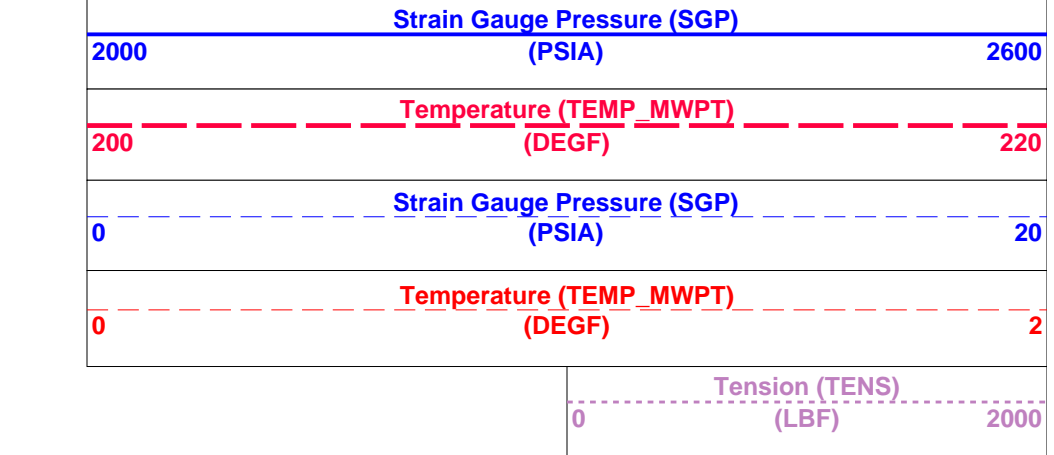
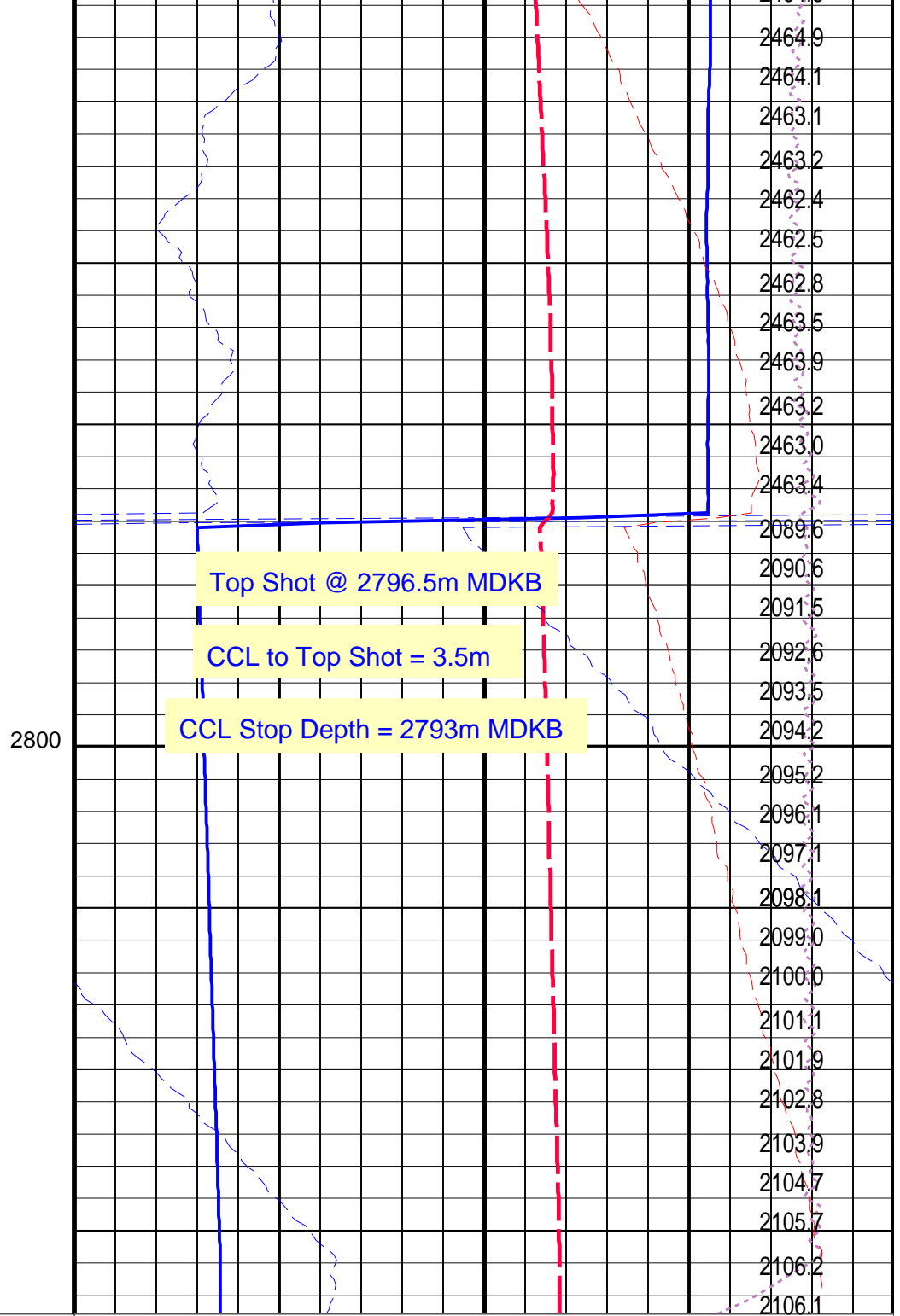
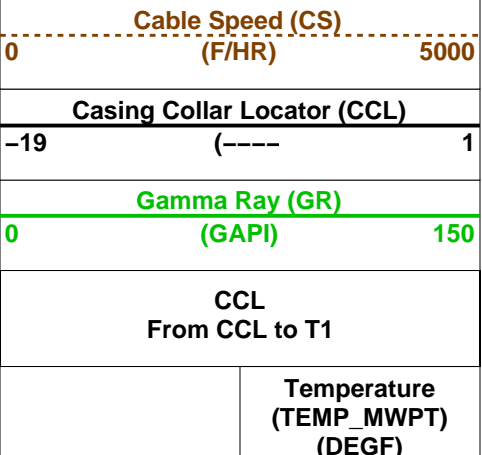
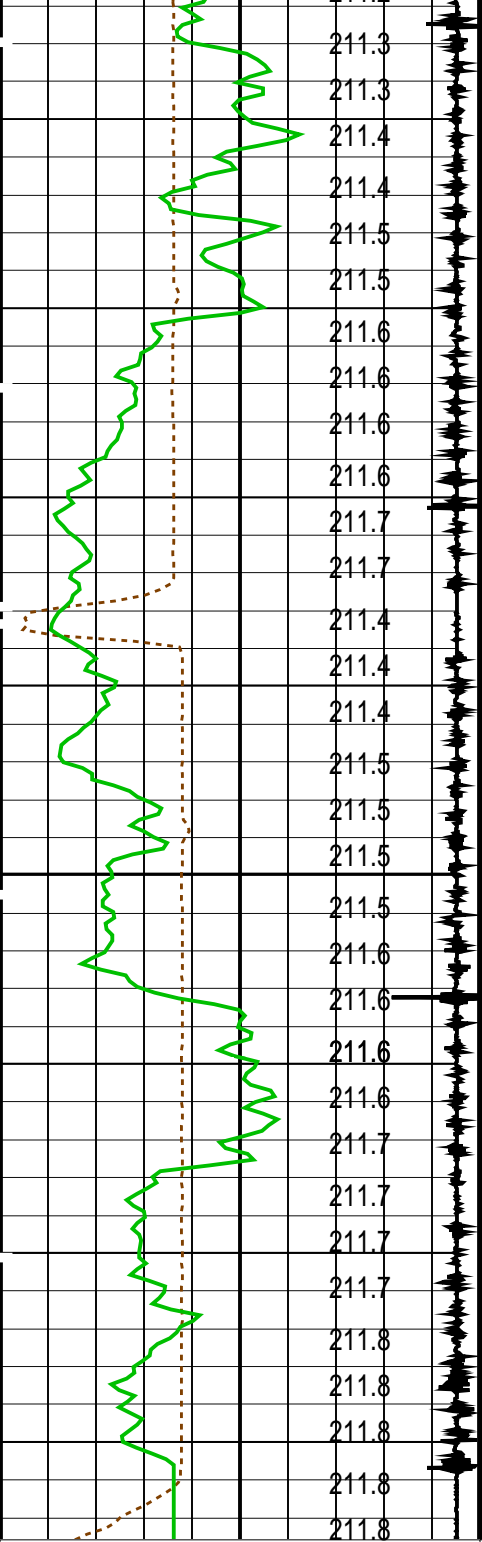
MAXIS Field Log



TIME	KPA	PSIA	DEGF
2730.0	14393.5855	2087.6171	211.1460
2760.0	14405.0528	2089.2803	211.3331
2790.0	14405.6215	2089.3628	211.3284
2820.0	14406.3994	2089.4756	211.3247
2850.0	15857.0603	2299.8762	212.4923
2880.0	16205.1650	2350.3645	211.7893
2910.0	16340.1623	2369.9442	211.6680
2940.0	16502.2813	2393.4576	211.6704

Gun Fired





Parameters

DLIS Name

Description

Value

MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL
DEVI_FL_CORR Deviation Angle for Flow Line Correction
FLD Flow Line Density
MWPT_NULL_SOURCE MWPT NULL Temperature Source
MWPT_NULL_TEMP MWPT NULL Temperature

0 DEG
1 G/C3
TEMS
0.0 DEGC

Format: MWP Vertical Scale: 1:200

Graphics File Created: 20-Nov-2008 08:07

OP System Version: 16C0-147

MCM

MWP_GUN 16C0-147
MWGT-AA 16C0-147

MWPT-CA 16C0-147

Output DLIS Files

DEFAULT PERFO_057LUP FN:56 PRODUCER 20-Nov-2008 08:07

Schlumberger

Gun Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-15a

Output DLIS Files

DEFAULT PERFO_056LUP FN:55 PRODUCER 20-Nov-2008 08:00

OP System Version: 16C0-147

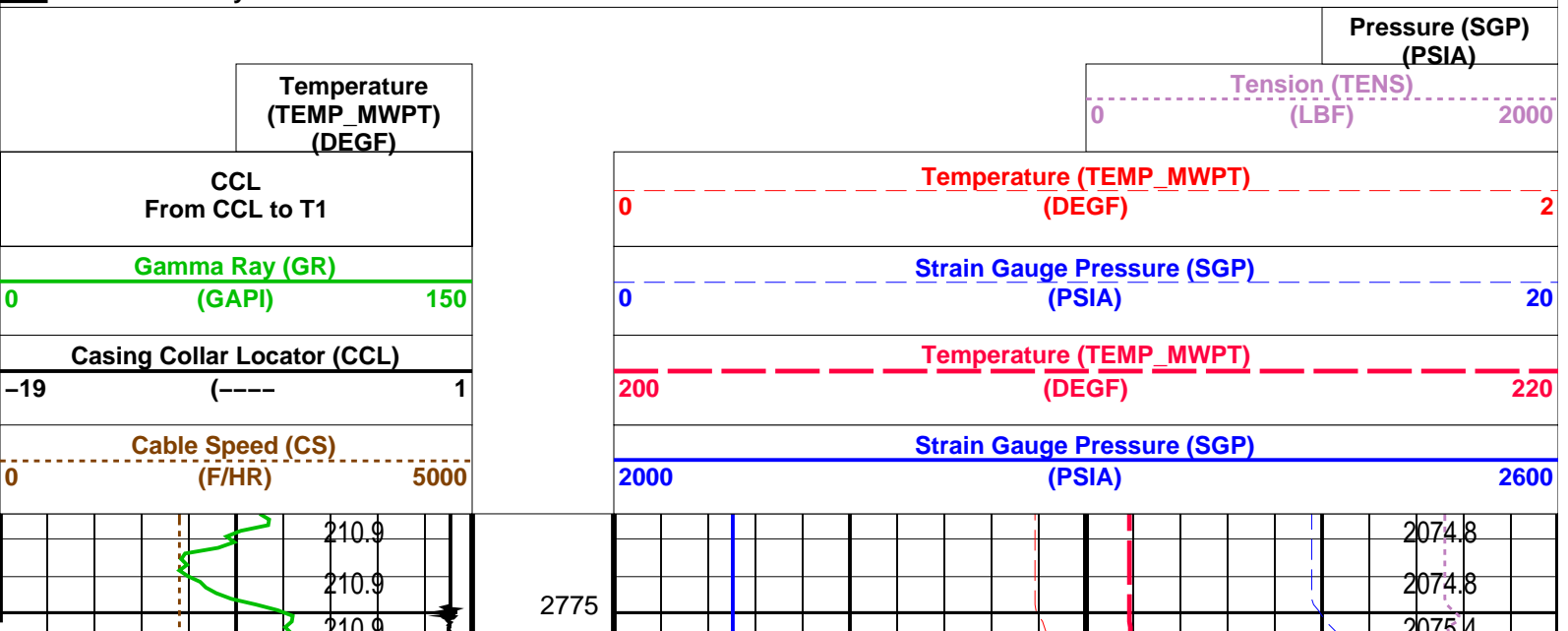
MCM

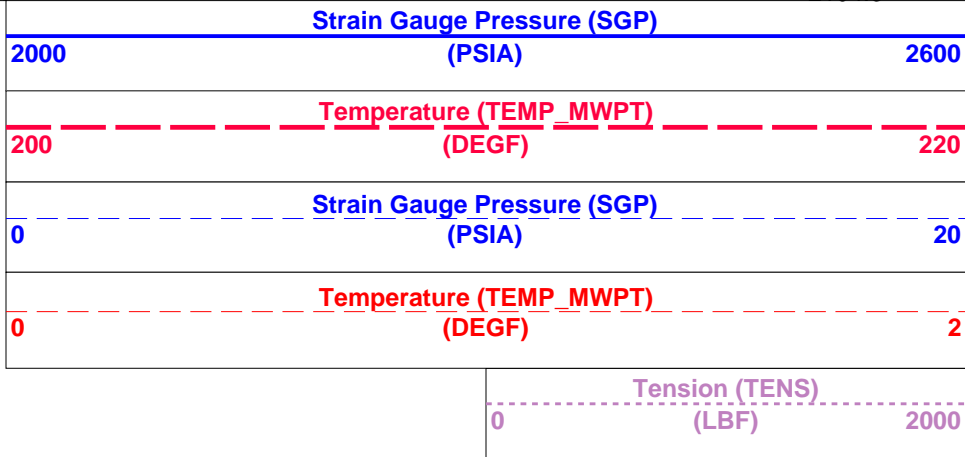
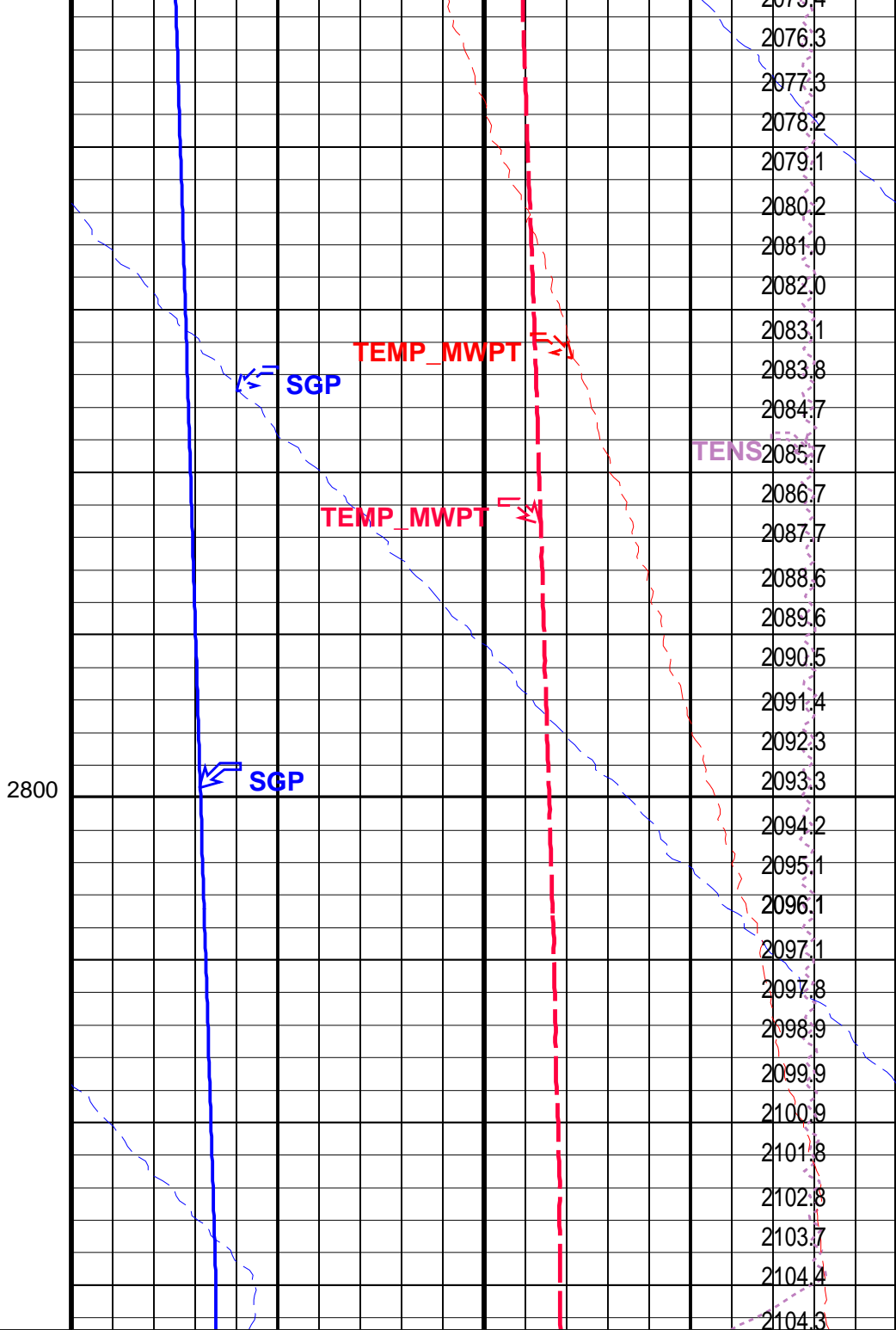
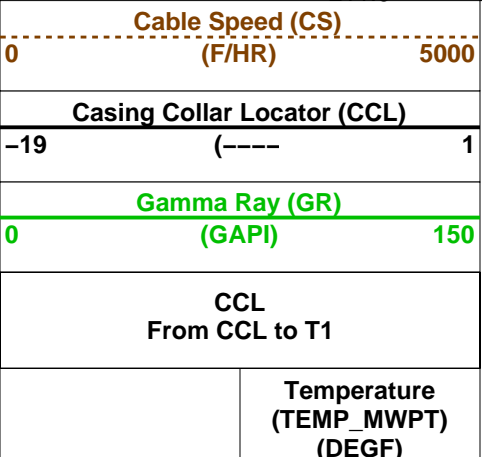
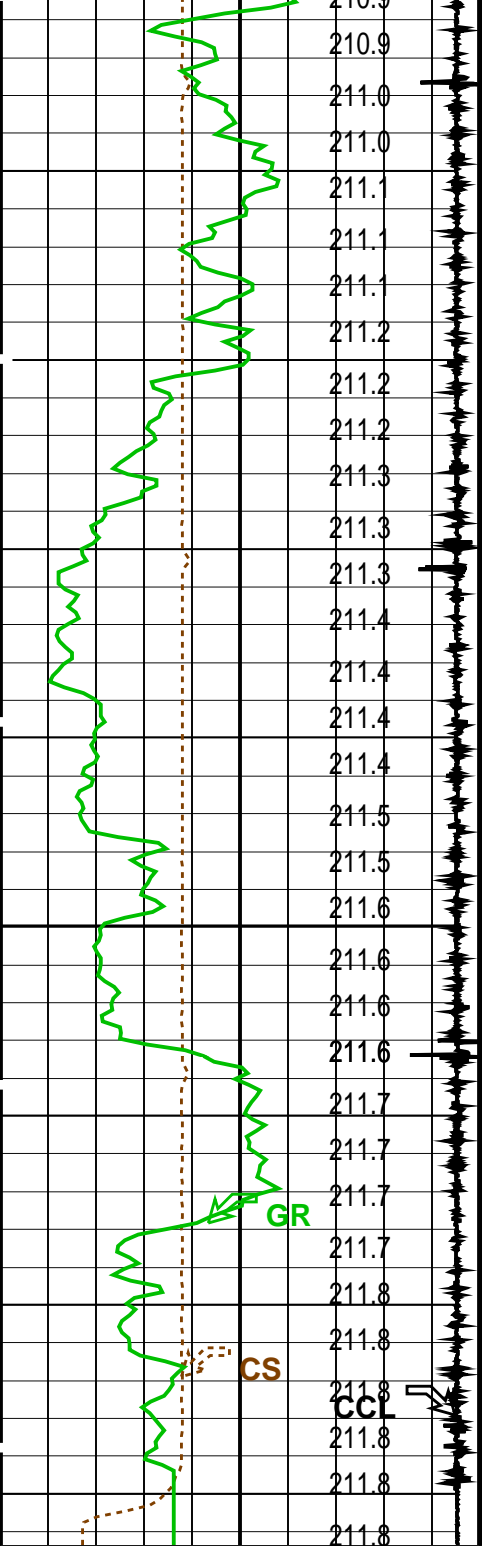
MWP_GUN 16C0-147
MWGT-AA 16C0-147

MWPT-CA 16C0-147

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: 20-Nov-2008 08:00

OP System Version: 16C0-147

MCM

MWP_GUN	16C0-147	MWPT-CA	16C0-147
MWGT-AA	16C0-147		

Output DLIS Files

DEFAULT PERFO_056LUP FN:55 PRODUCER 20-Nov-2008 08:00

Schlumberger

Cement Dump Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_046LUP FN:45 PRODUCER 19-Nov-2008 13:17 3025.6 M 2971.2 M

OP System Version: 16C0-147

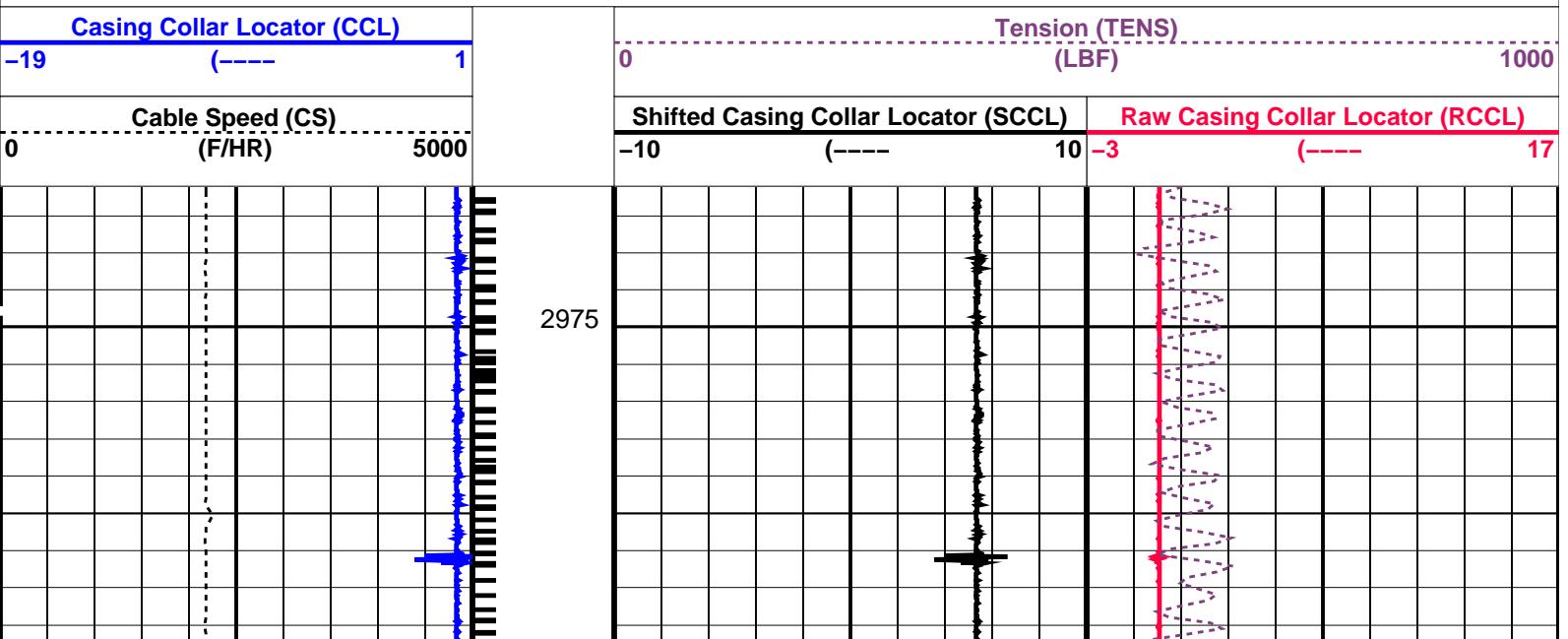
MCM

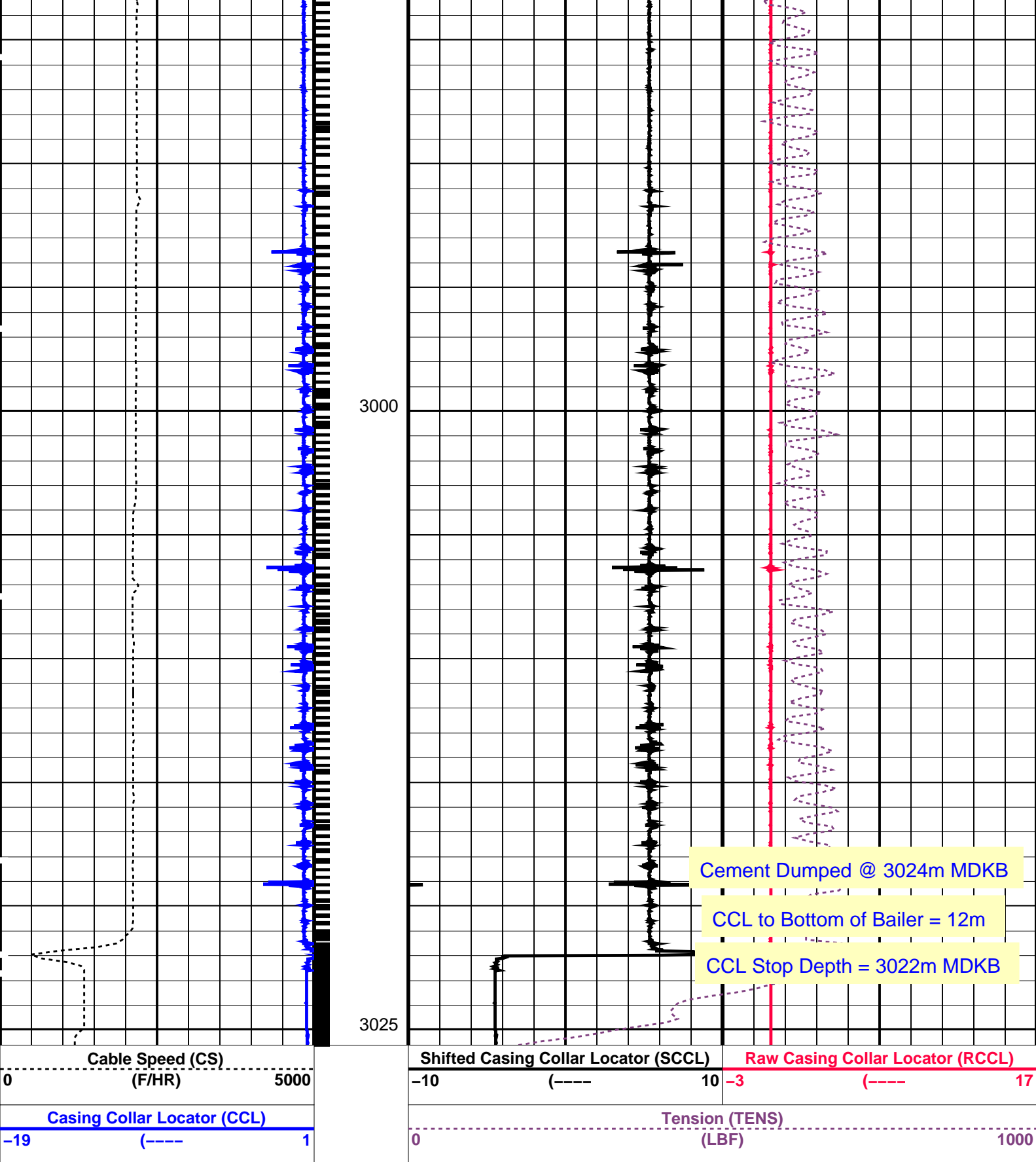
SHM_GUN	16C0-147	CCL-L	16C0-147
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PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





Time Mark Every 60 S

PIP SUMMARY

└─ Casing Collars

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

MCM

16C0-147

FN:45 PRODUCER 19-Nov-2008 13:17



MAXIS Field Log

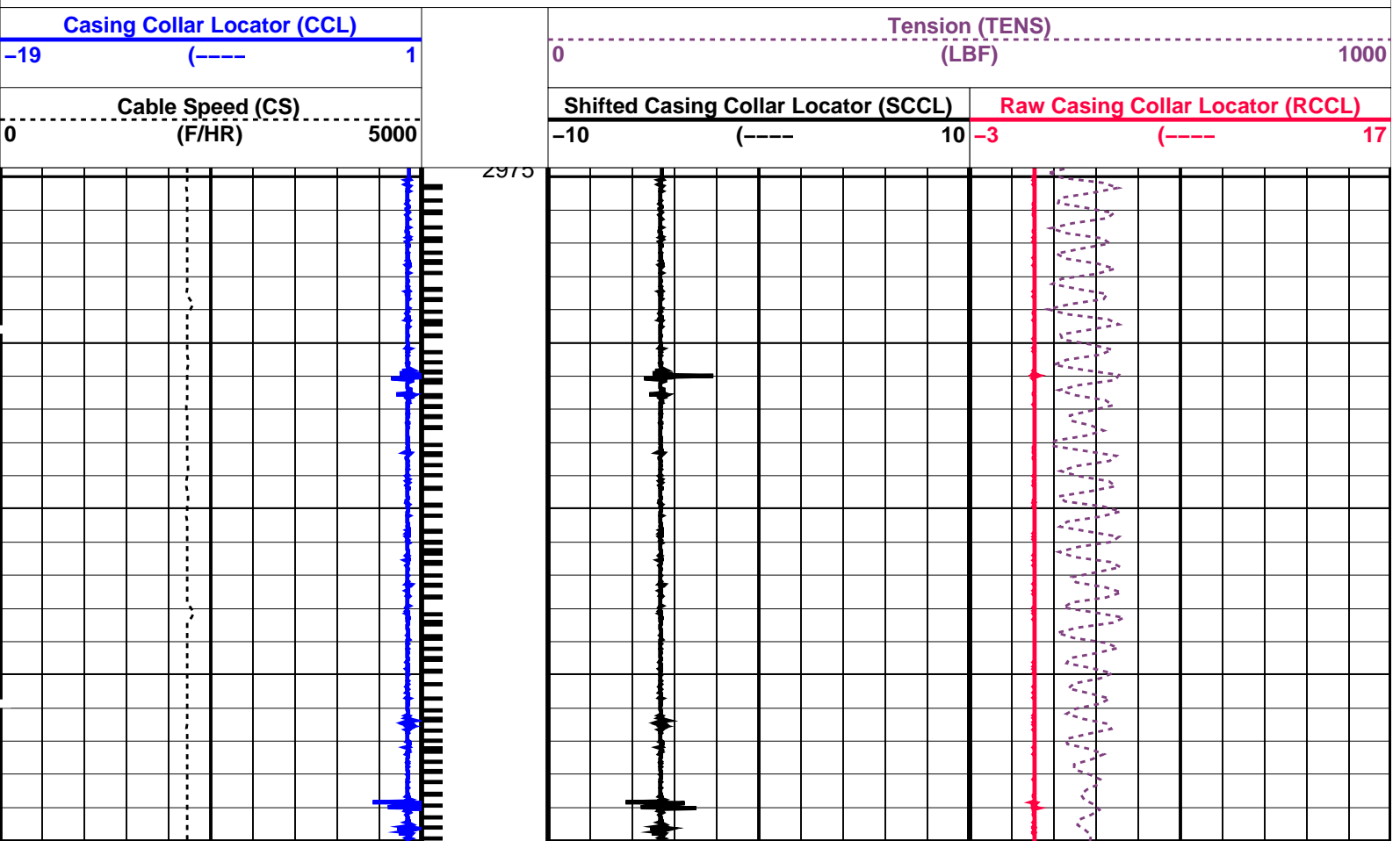
FN:42 PRODUCER 19-Nov-2008 11:17 3026.4 M 2974.7 M

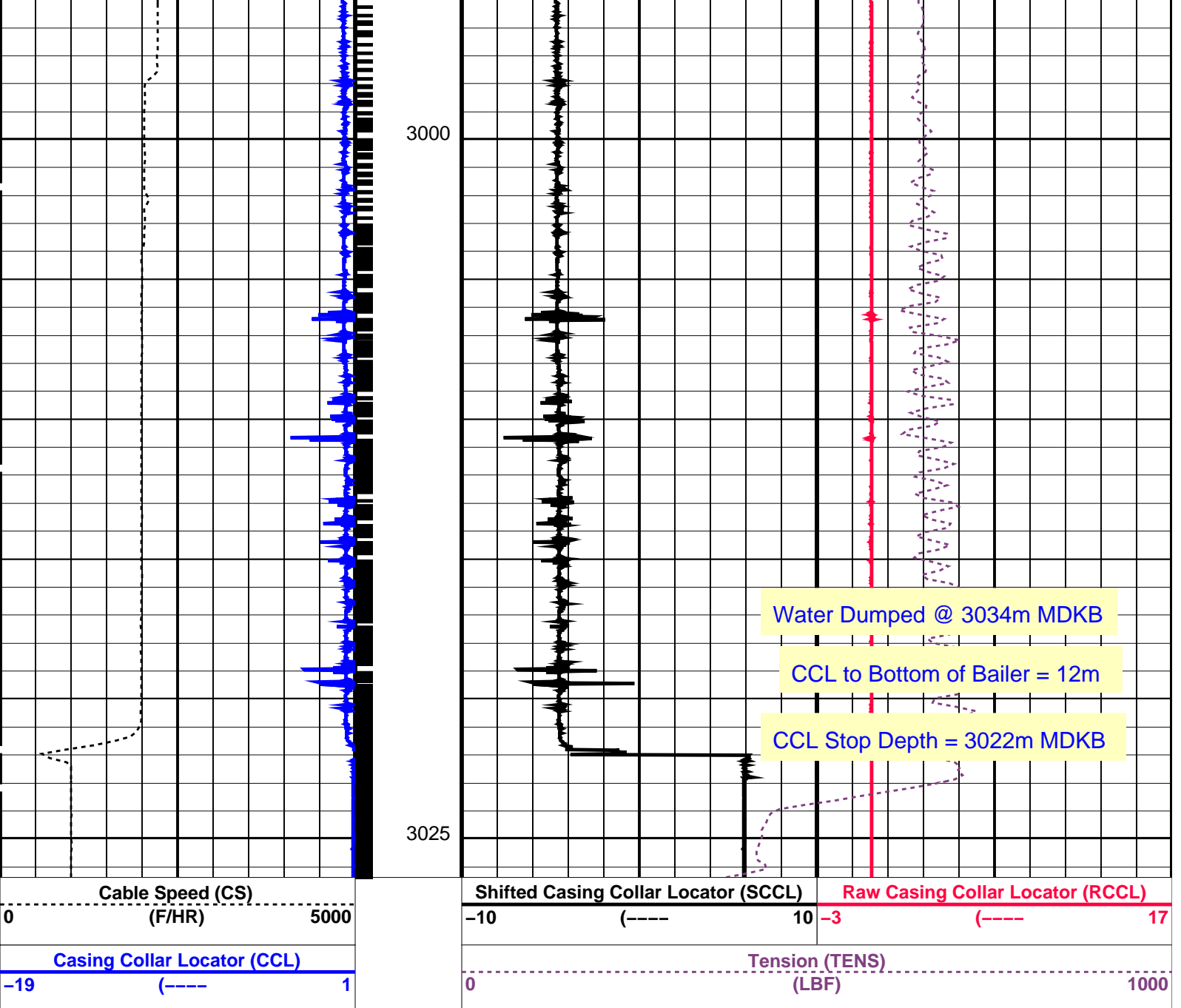
MCM

16C0-147

└ Casing Collars

Time Mark Every 60 S





PIP SUMMARY			
Time Mark Every 60 S		Casing Collars	
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_1	Vertical Scale: 1:200	Graphics File Created: 19-Nov-2008 11:17	
OP System Version: 16C0-147			
MCM			
SHM_GUN	16C0-147	CCL-L	16C0-147
Output DLIS Files			
DEFAULT	PERFO_043LUP	FN:42	PRODUCER 19-Nov-2008 11:17



Log Away From Plug Setting

MAXIS Field Log

Output DLIS Files

DEFAULT MPBT_039LUP FN:38 PRODUCER 19-Nov-2008 08:51 3027.9 M 2974.1 M

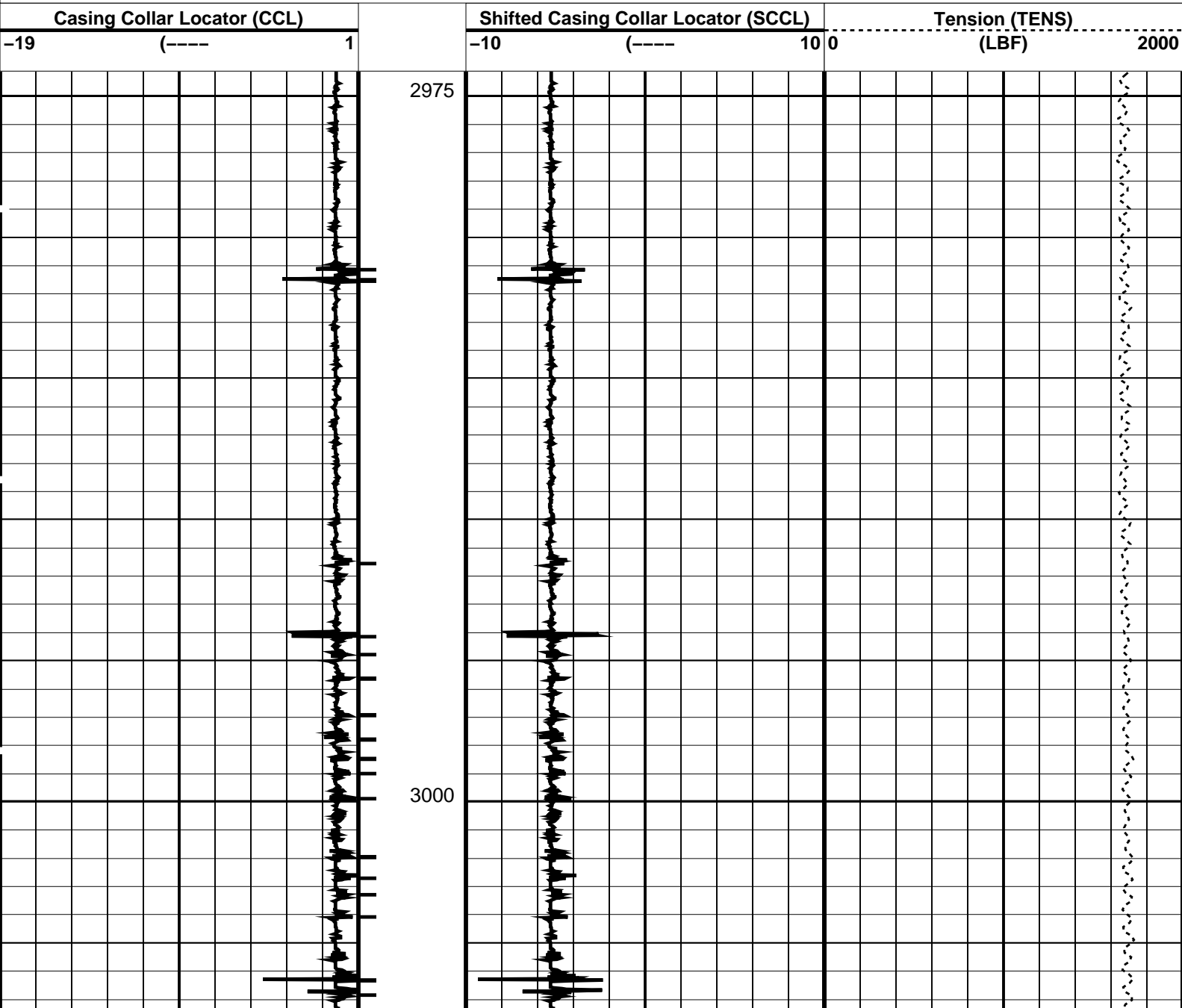
OP System Version: 16C0-147
MCM

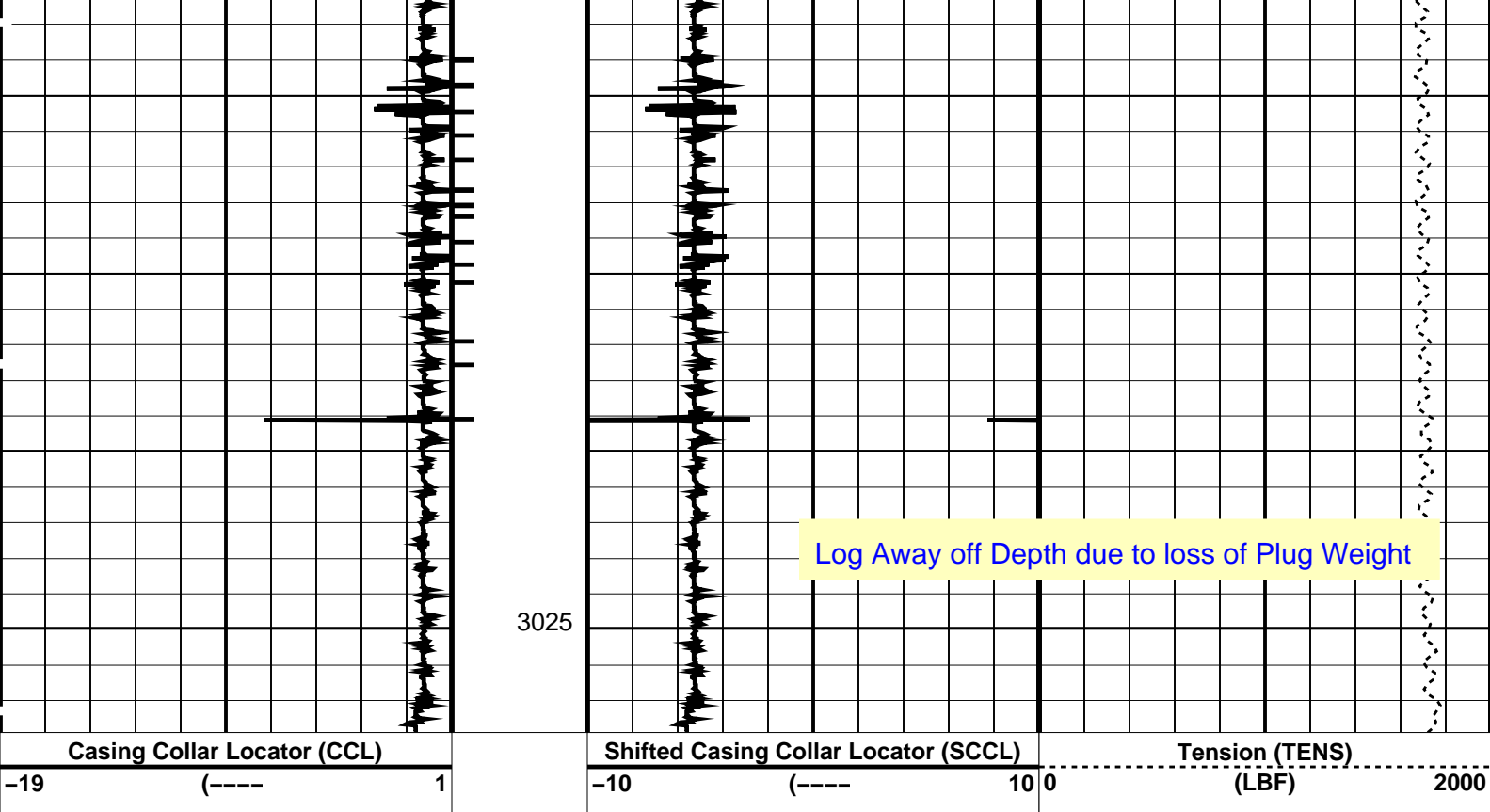
MPEX-7" 26lb/ft MPSU-CA 16C0-147
CCL-L 16C0-147

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

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 19-Nov-2008 08:51

OP System Version: 16C0-147

MCM

MPEX-7" 26lb/ft MPSU-CA 16C0-147
CCL-L 16C0-147

Output DLIS Files

DEFAULT MPBT_039LUP FN:38 PRODUCER 19-Nov-2008 08:51

Schlumberger

7" Posiset Plug Setting
Top of Seal @ 3035m MDKB

MAXIS Field Log

Output DLIS Files

DEFAULT MPBT_038LUP FN:37 PRODUCER 19-Nov-2008 08:25

OP System Version: 16C0-147

MCM

MPEX-7"
CCL-L

26lb/ft
16C0-147

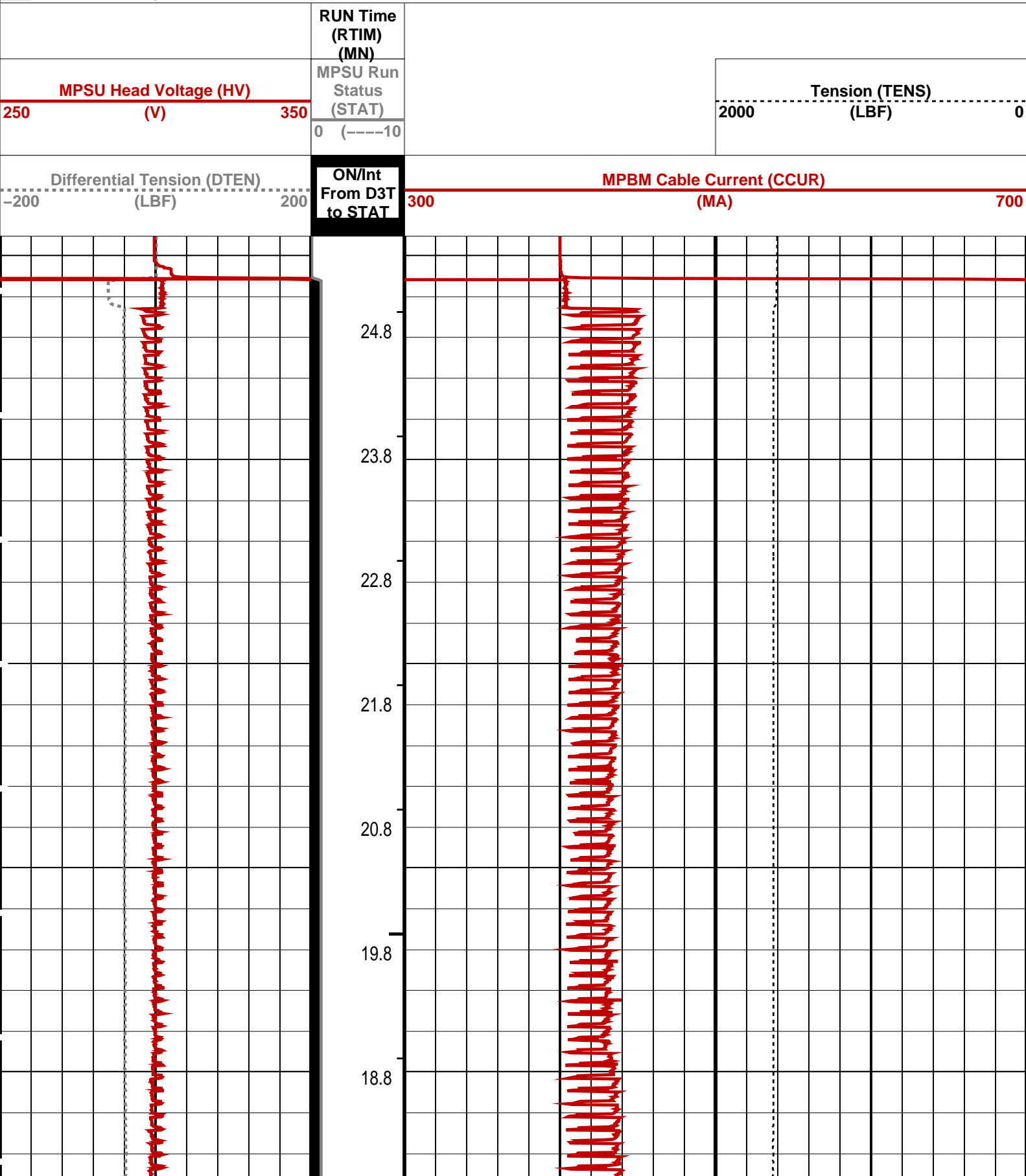
MPSU-CA

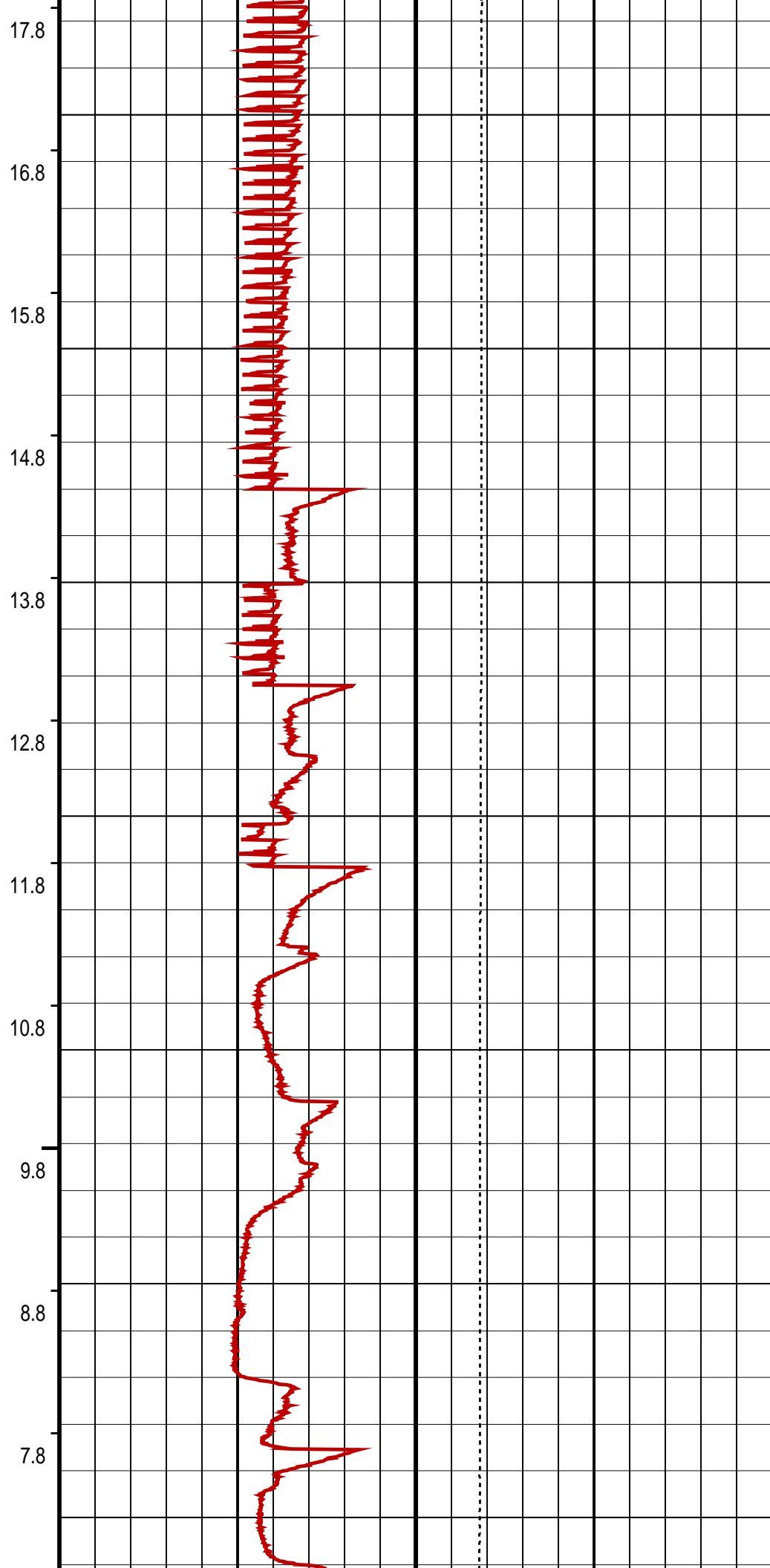
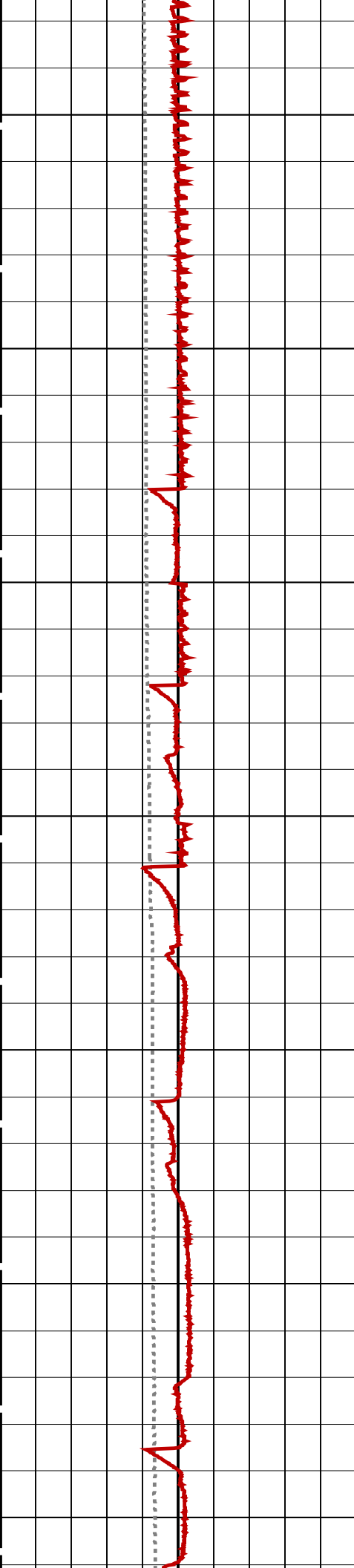
16C0-147

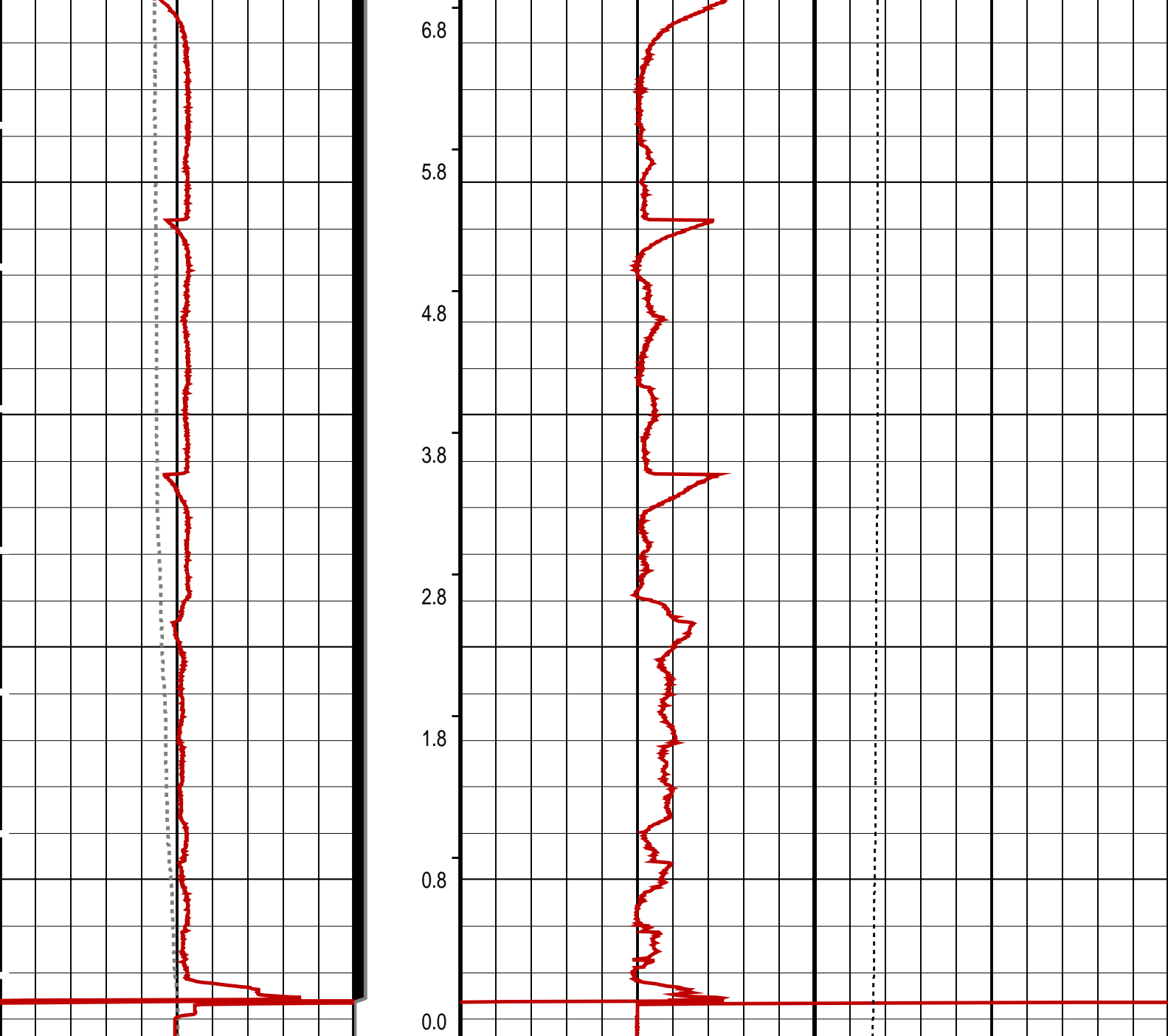
PIP SUMMARY

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

Time Mark Every 60 S







Differential Tension (DTEN) (LBF)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR) (MA)
-200200		300700

MPSU Head Voltage (HV) (V)	MPSU Run Status (STAT)	Tension (TENS) (LBF)
250350	0 (----10	20000

RUN Time (RTIM) (MN)

PIP SUMMARY

Time Mark Every 60 S

↵ MPSU Run Time Every 1 MN

↵ MPSU Run Time Every 10 MN

Parameters		
DLIS Name	Description	Value
MPSU-CA: MECHANICAL PLUGBACK SETTING UNIT		
IPUMP	Intensifier Pump	TRUE

OP System Version: 16C0-147

MCM

MPEX-7"

CCL-L

26lb/ft


16C0-147

MPSU-CA

16C0-147

Output DLIS Files

DEFAULTMPBT_038LUPFN:37PRODUCER19-Nov-2008 08:25



Plug Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULTMPBT_037LUPFN:36PRODUCER19-Nov-2008 08:13

OP System Version: 16C0-147

MCM

MPEX-7"

CCL-L

26lb/ft

16C0-147

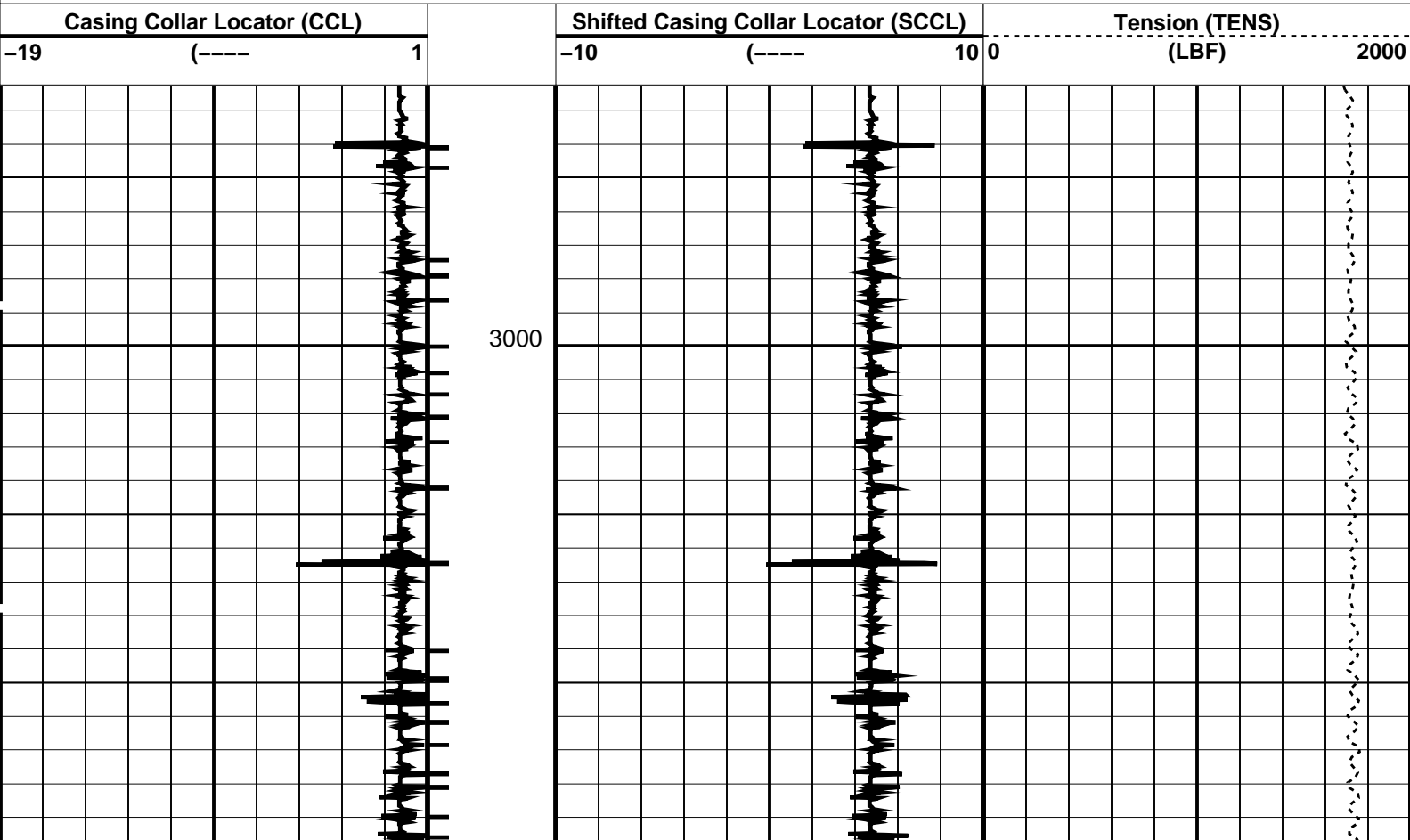
MPSU-CA

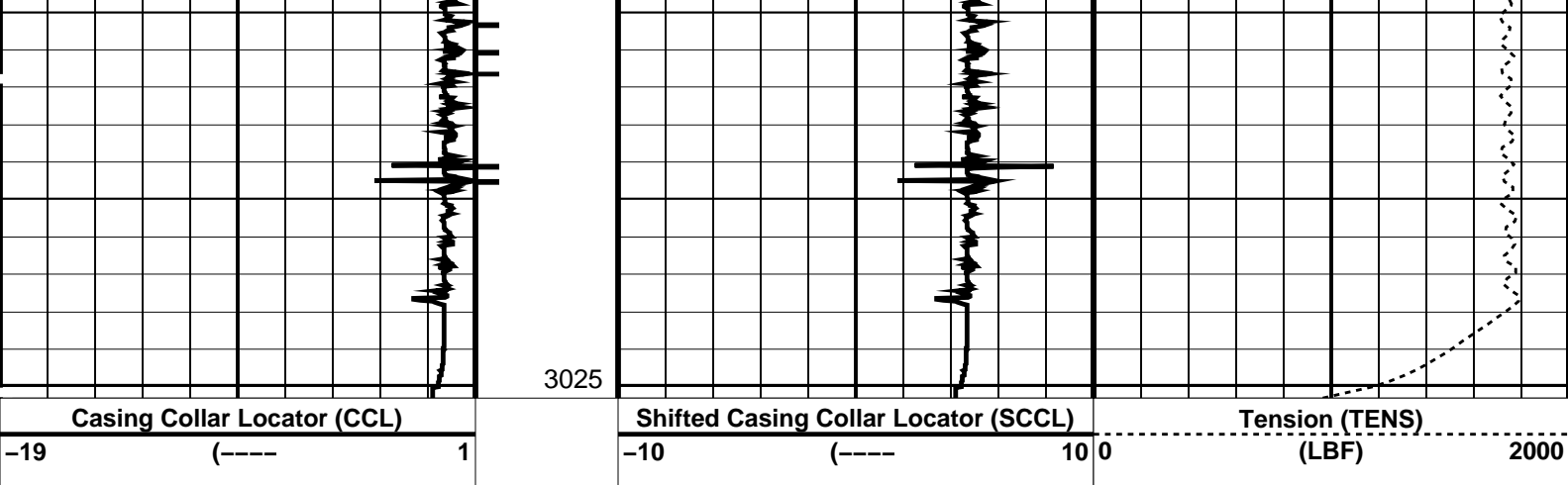
16C0-147

PIP SUMMARY

Time Mark Every 60 S

Casing Collars





PIP SUMMARY

Time Mark Every 60 S

Casing Collars

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: 19-Nov-2008 08:13

OP System Version: 16C0-147

MCM

MPEX-7"	26lb/ft	MPSU-CA	16C0-147
CCL-L	16C0-147		

Output DLIS Files

DEFAULT	MPBT_037LUP	FN:36	PRODUCER	19-Nov-2008 08:13
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Schlumberger

Plug Correlated to EOT

MAXIS Field Log

Output DLIS Files

DEFAULT	MPBT_034LUP	FN:33	PRODUCER	19-Nov-2008 07:51	2593.1 M	2562.1 M
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OP System Version: 16C0-147

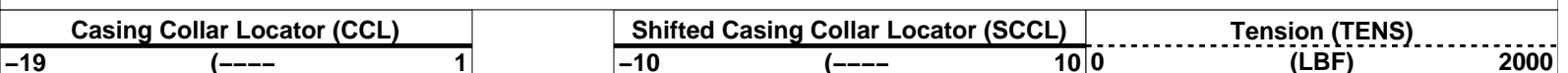
MCM

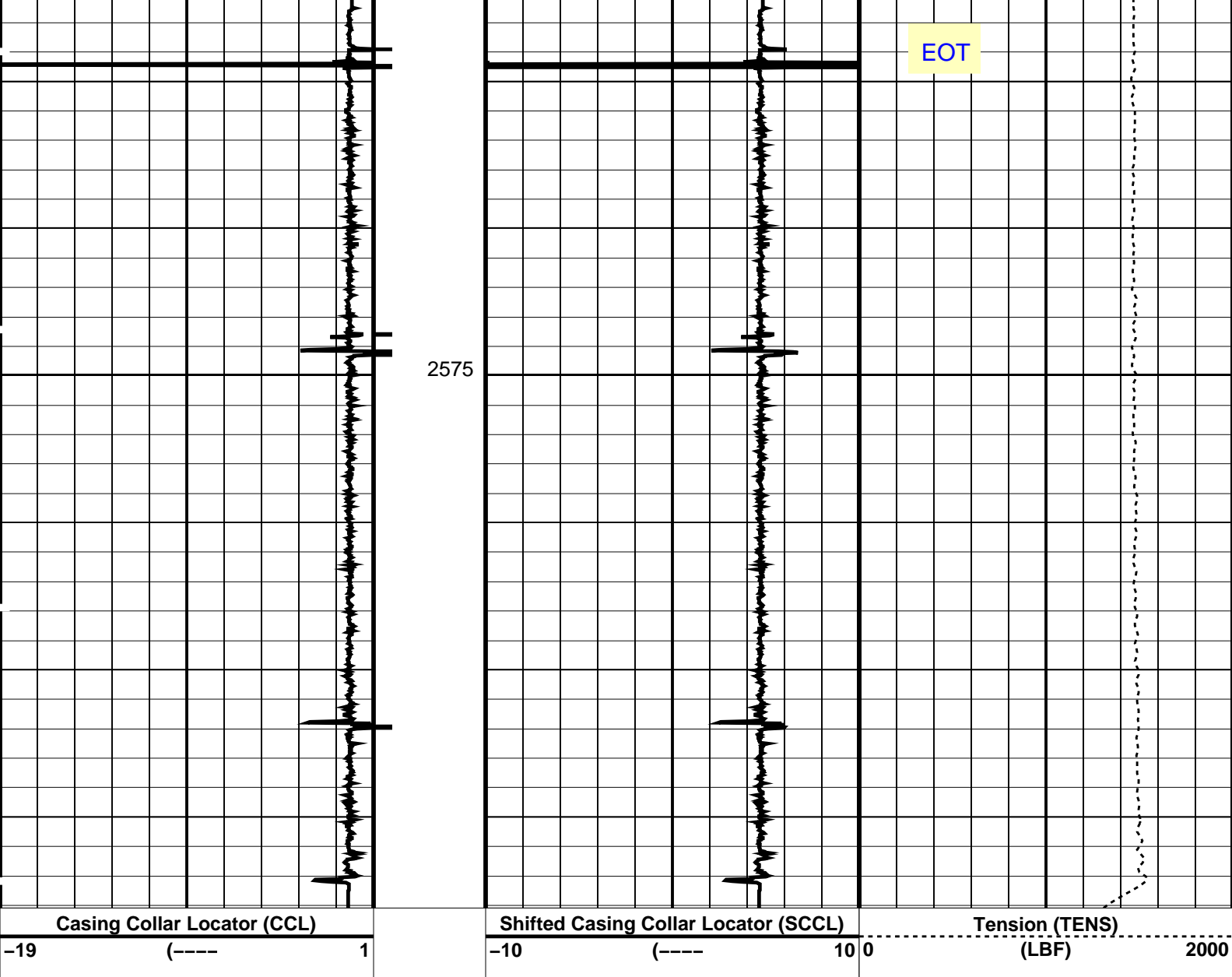
MPEX-7"	26lb/ft	MPSU-CA	16C0-147
CCL-L	16C0-147		

PIP SUMMARY

Time Mark Every 60 S

Casing Collars





PIP SUMMARY

Time Mark Every 60 S

Casing Collars

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: 19-Nov-2008 07:51

OP System Version: 16C0-147			
MCM			
MPEX-7"	26lb/ft	MPSU-CA	16C0-147
CCL-L	16C0-147		

Output DLIS Files			
DEFAULT	MPBT_034LUP	FN:33 PRODUCER	19-Nov-2008 07:51



Dummy Plug Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-15a

Input DLIS Files

DEFAULT

PSP_020LUP

FN:19

PRODUCER

18-Nov-2008 14:52

3052.9 M

2476.3 M

Output DLIS Files

DEFAULT

PSP_023PUP

FN:22

PRODUCER

18-Nov-2008 15:31

3051.5 M

2467.8 M

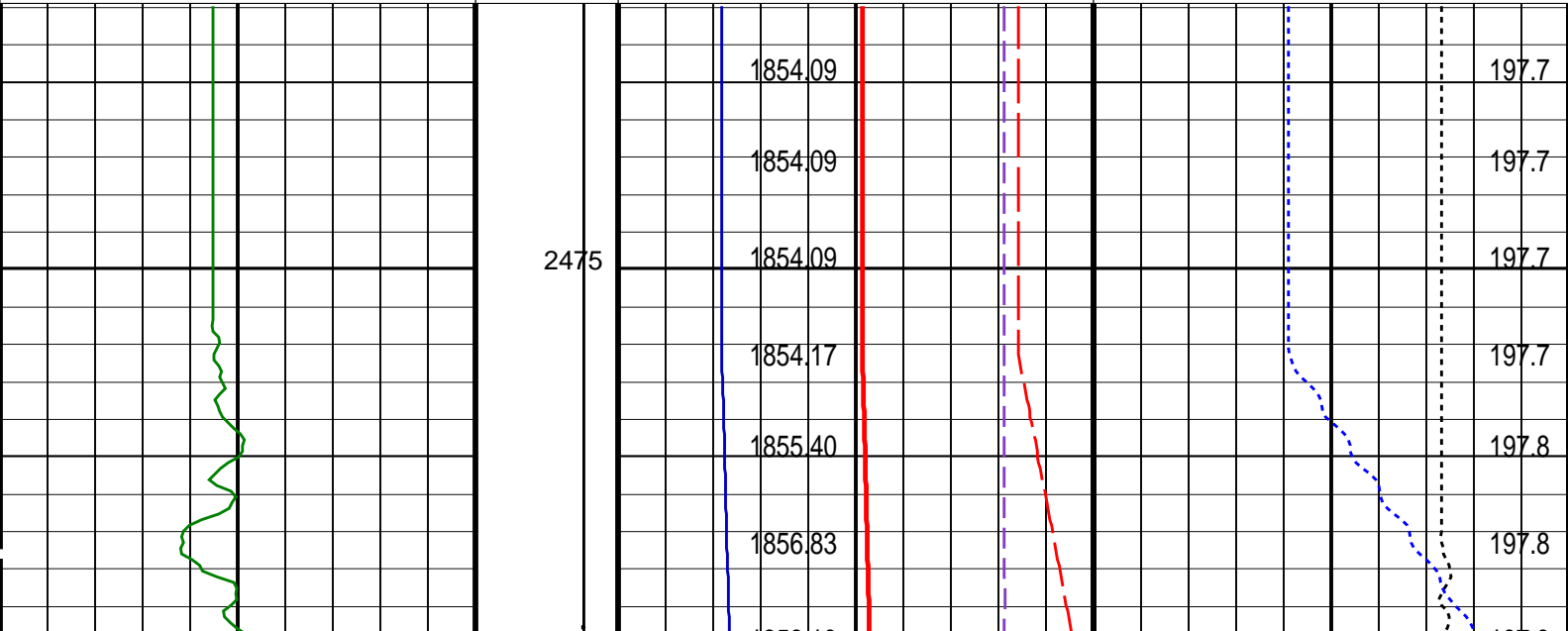
OP System Version: 16C0-147
MCM

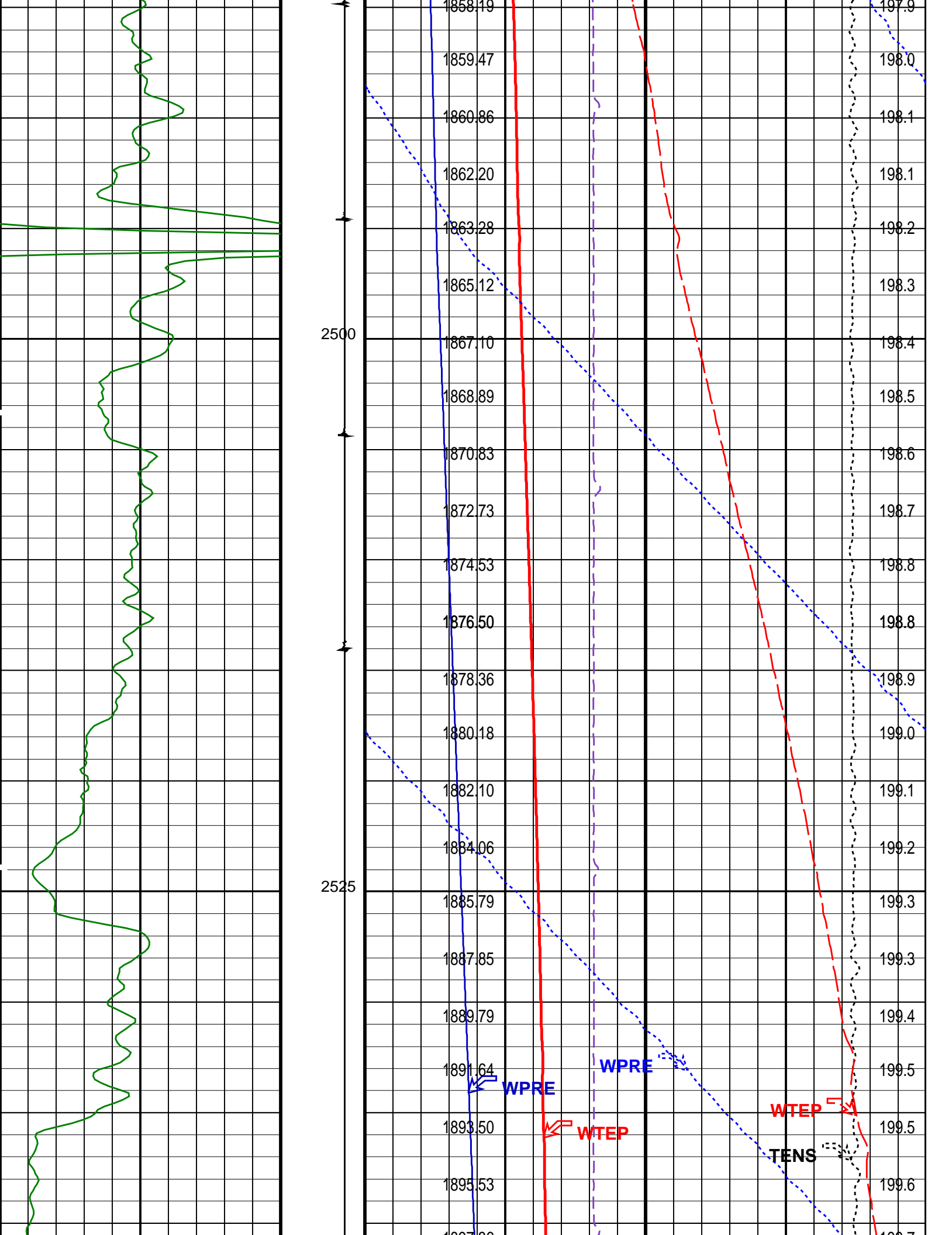
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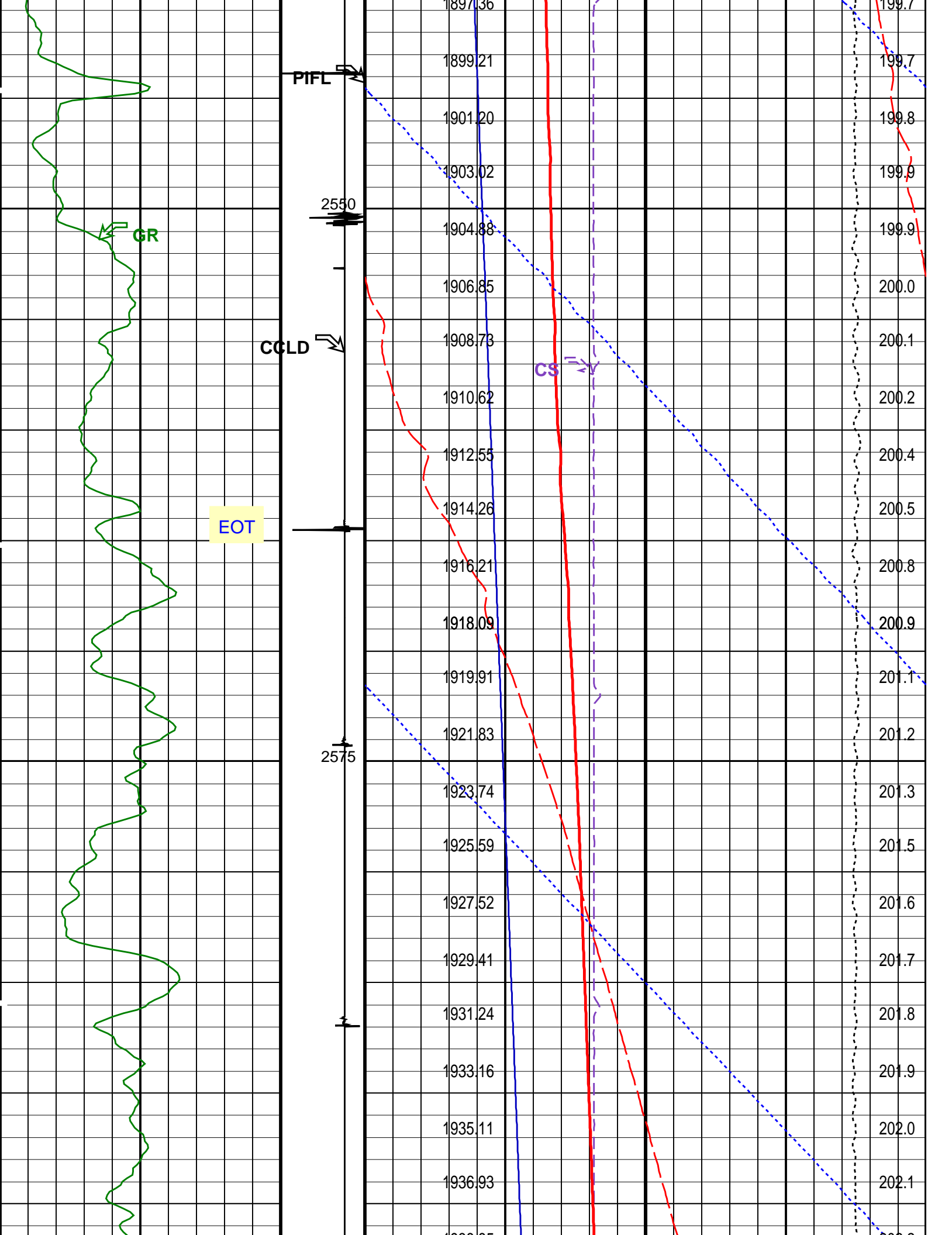
PIP SUMMARY

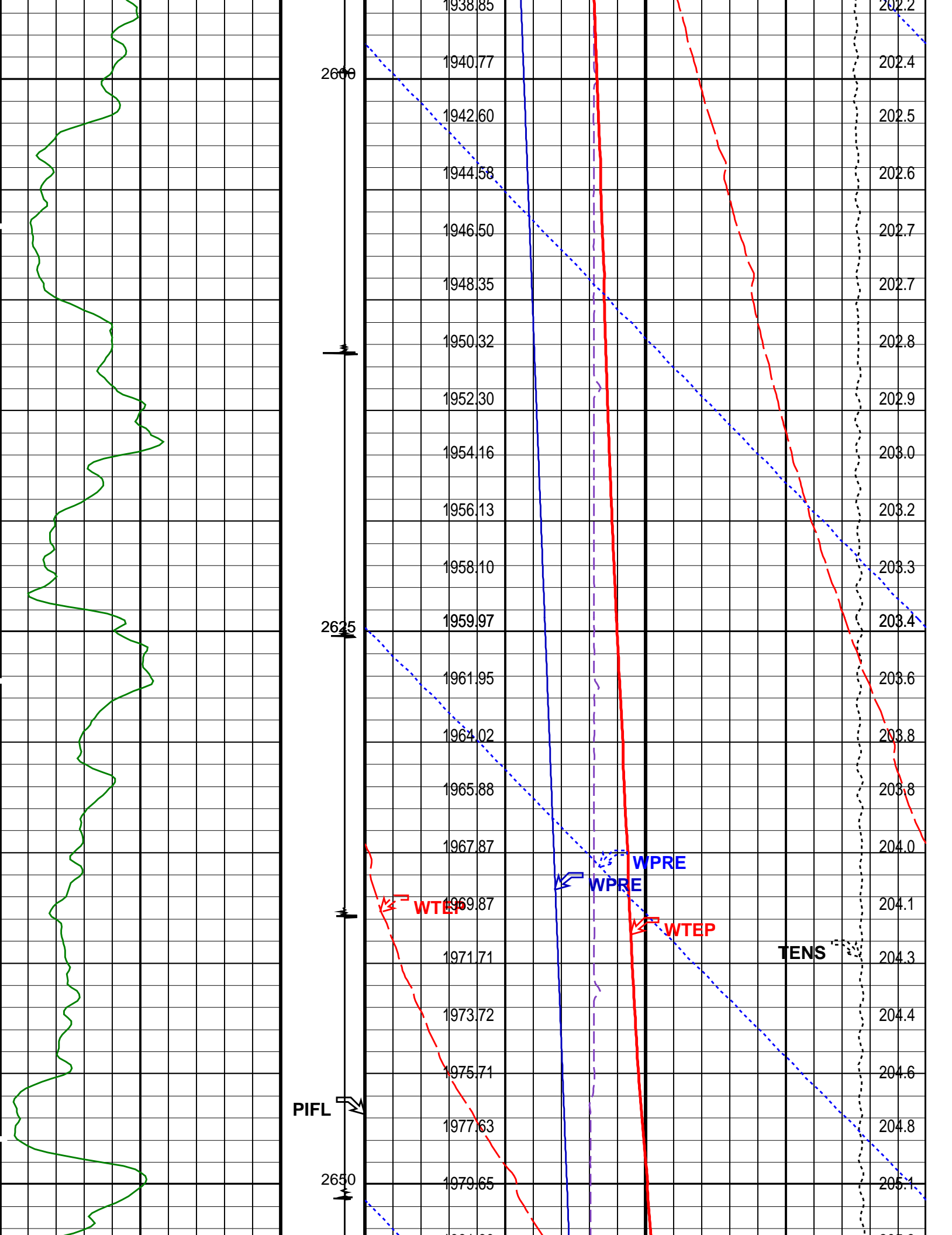
 Time Mark Every 60 S

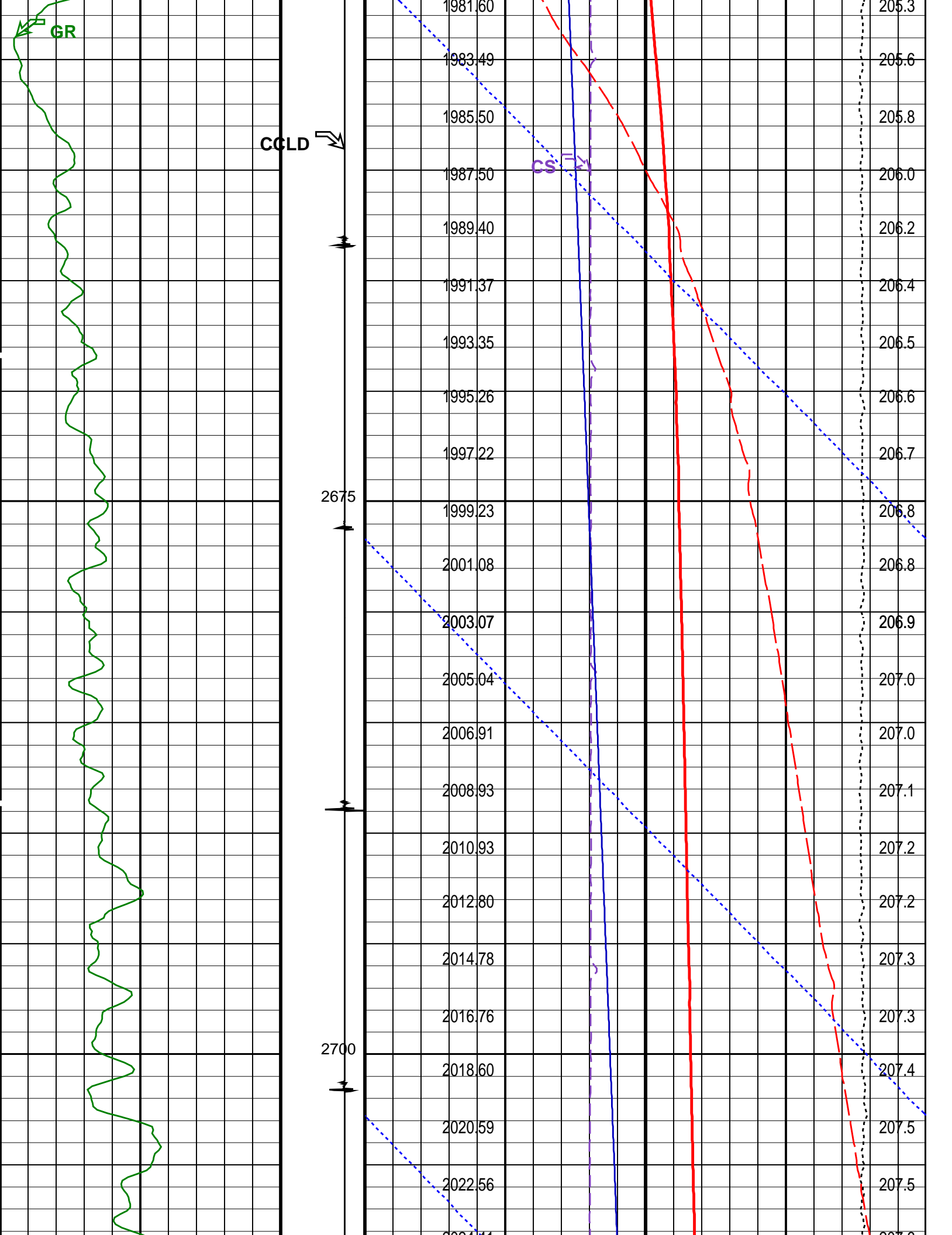
		Amplified Well Pressure (WPRE) 0 (PSIA) 20	
		Well Pressure (WPRE) 1800 (PSIA) 2300	
		Well Temperature (WTEP) 0 (DEGF) 4	
		Well Pressure (WPRE) (PSIA)	Temperature (WTEP) (DEGF)
		Well Temperature (WTEP) 190 (DEGF) 220	
Gamma Ray (GR) 0 (GAPI) 150		Cable Speed (CS) 0 (F/HR) 5000	
Discriminat ed CCL (CCLD) 3 (V) -1		Tension (TENS) 0 (LBF) 2000	

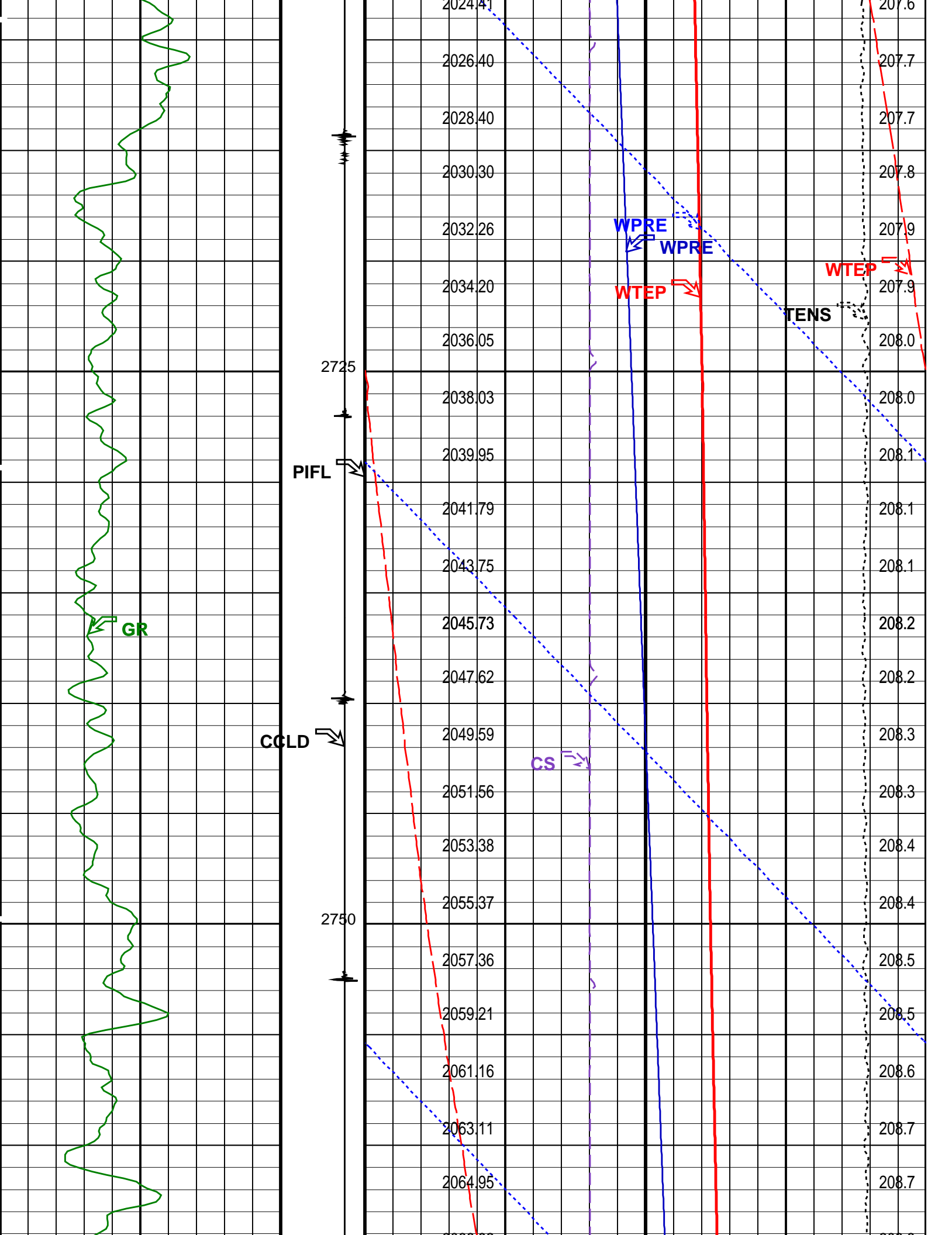


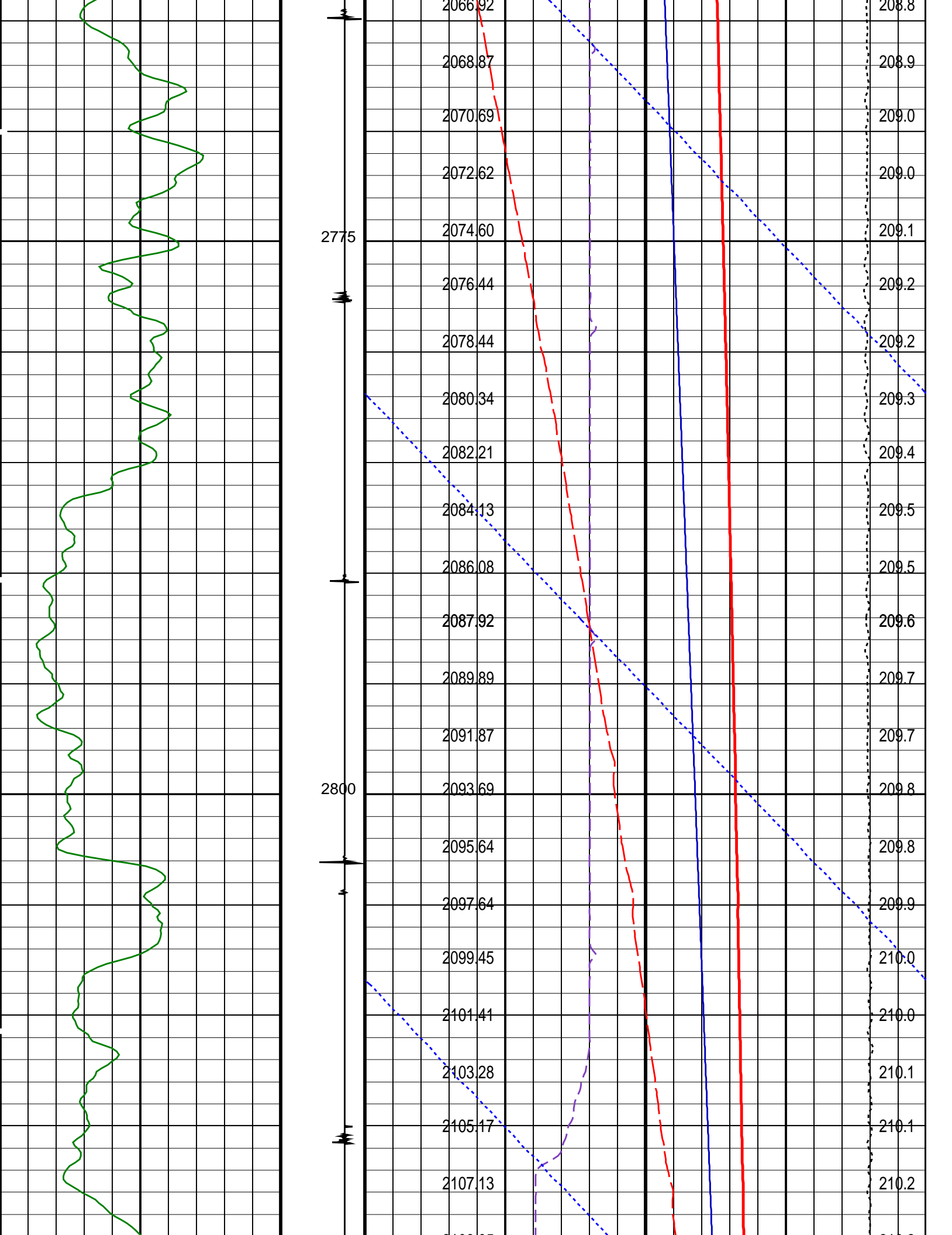


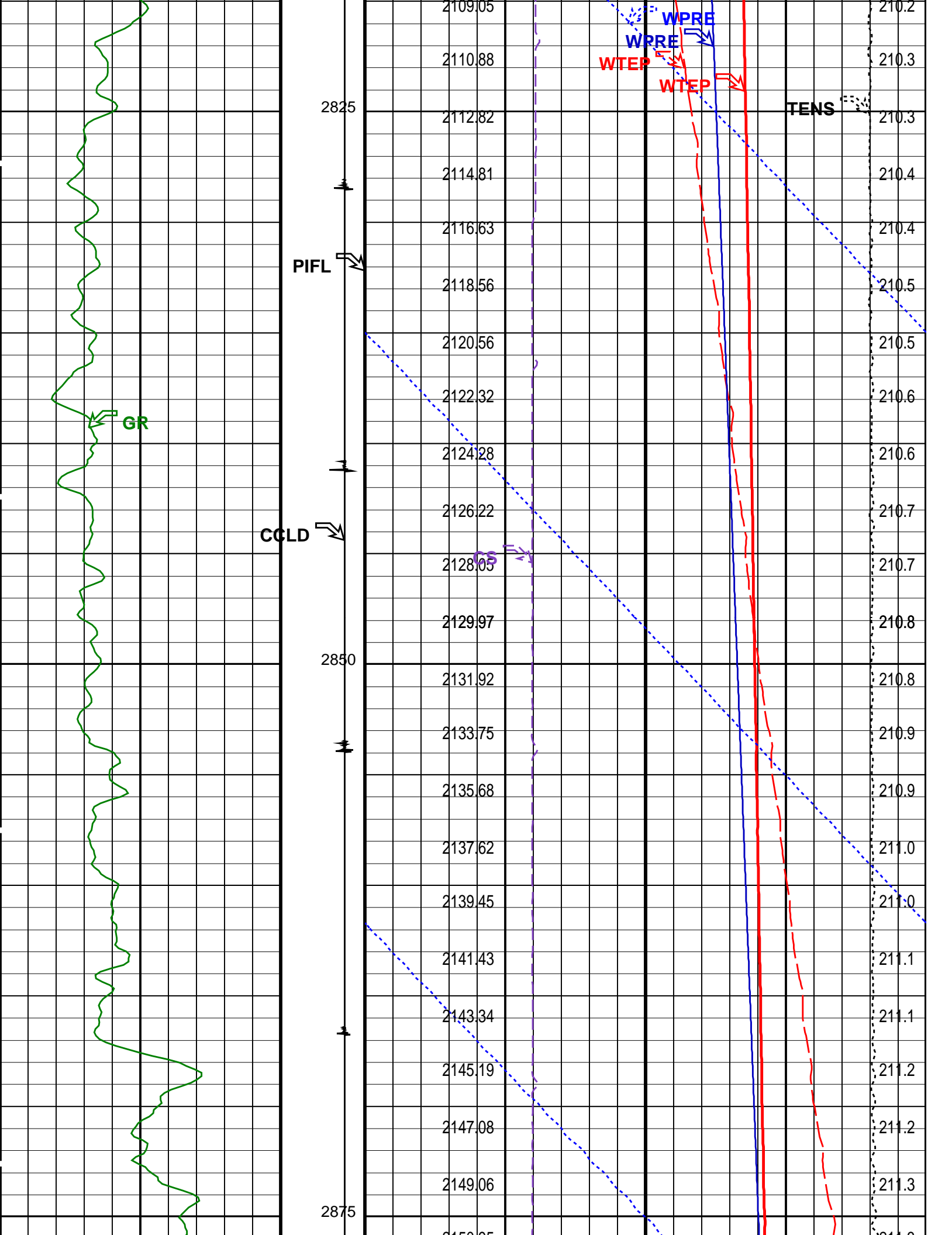


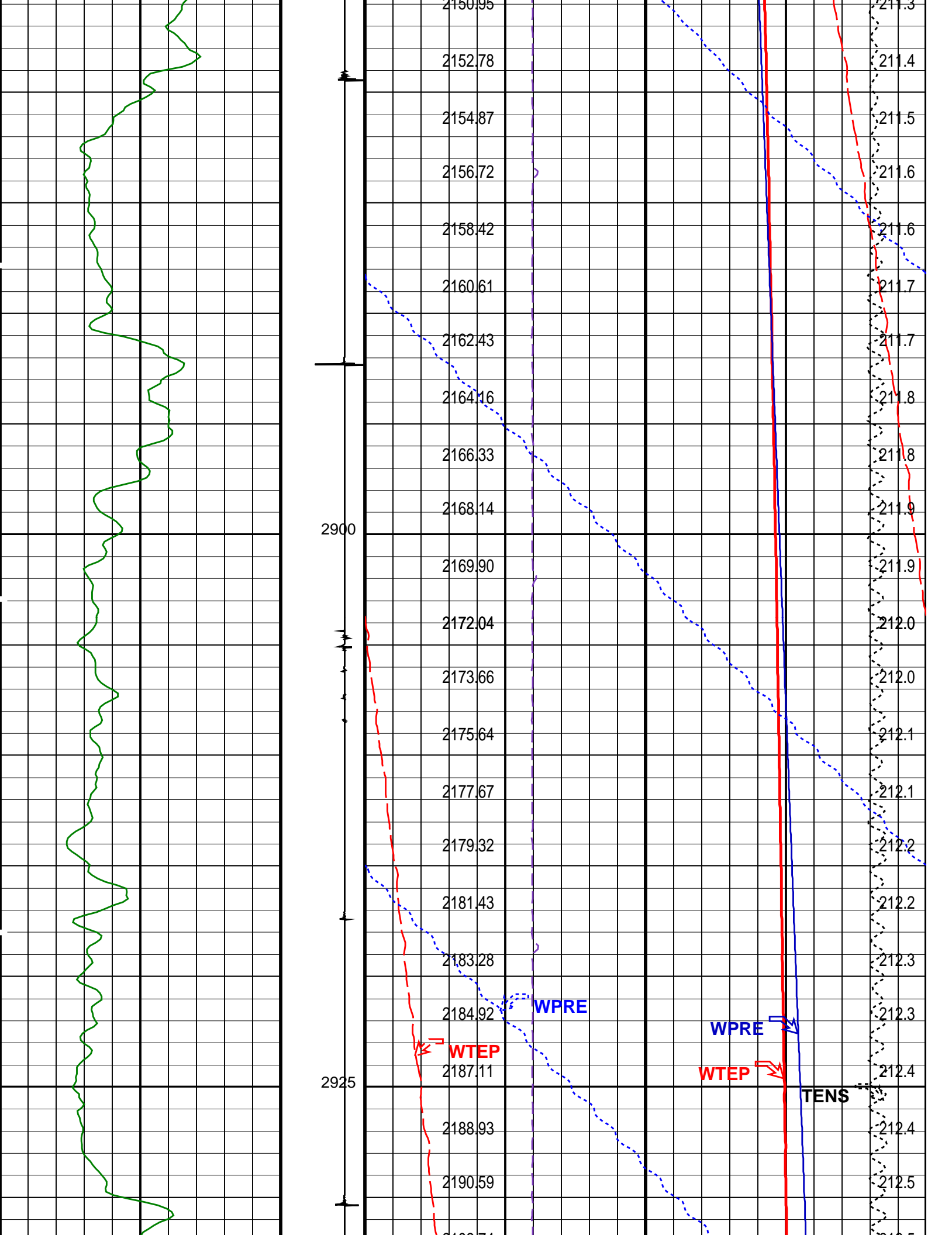


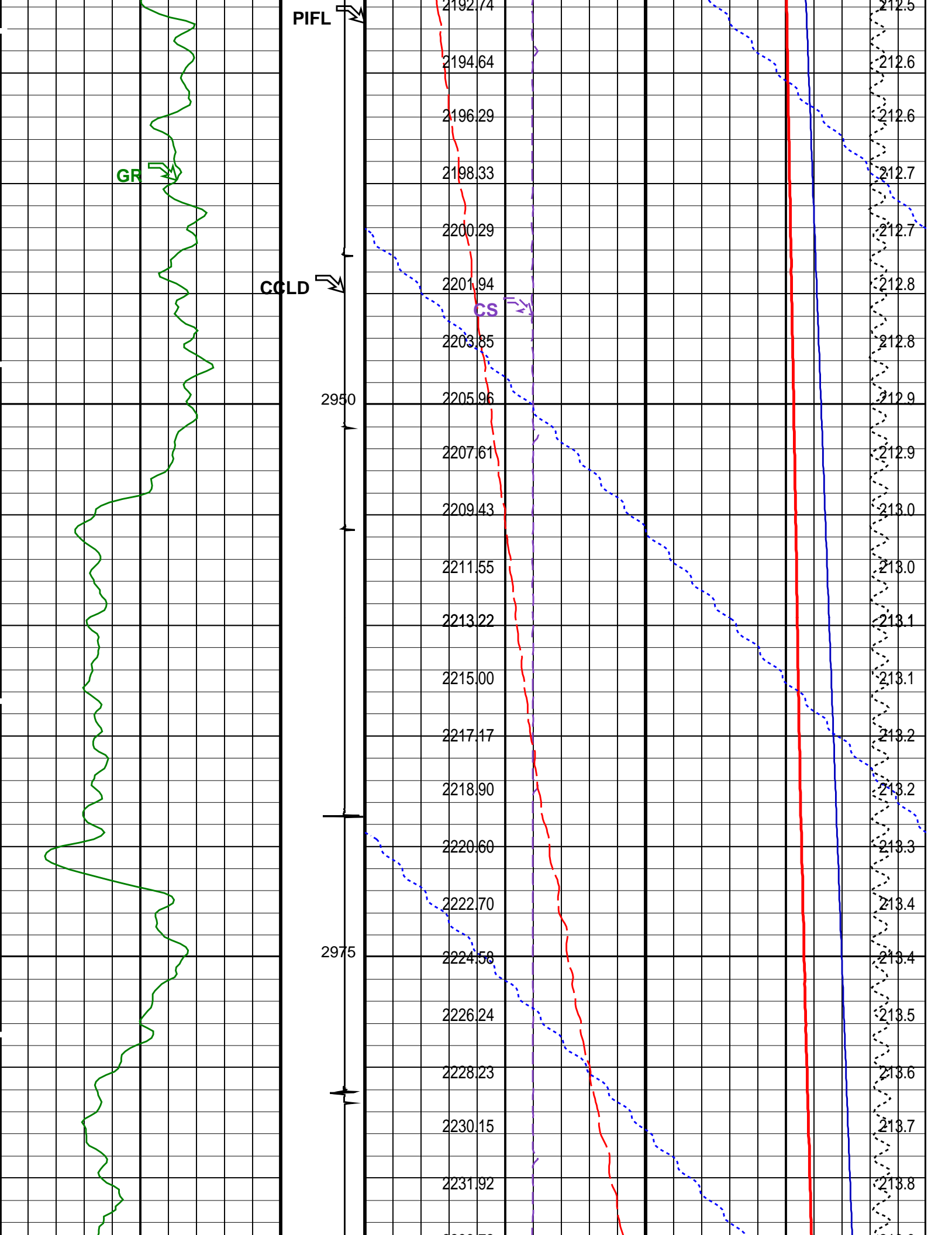


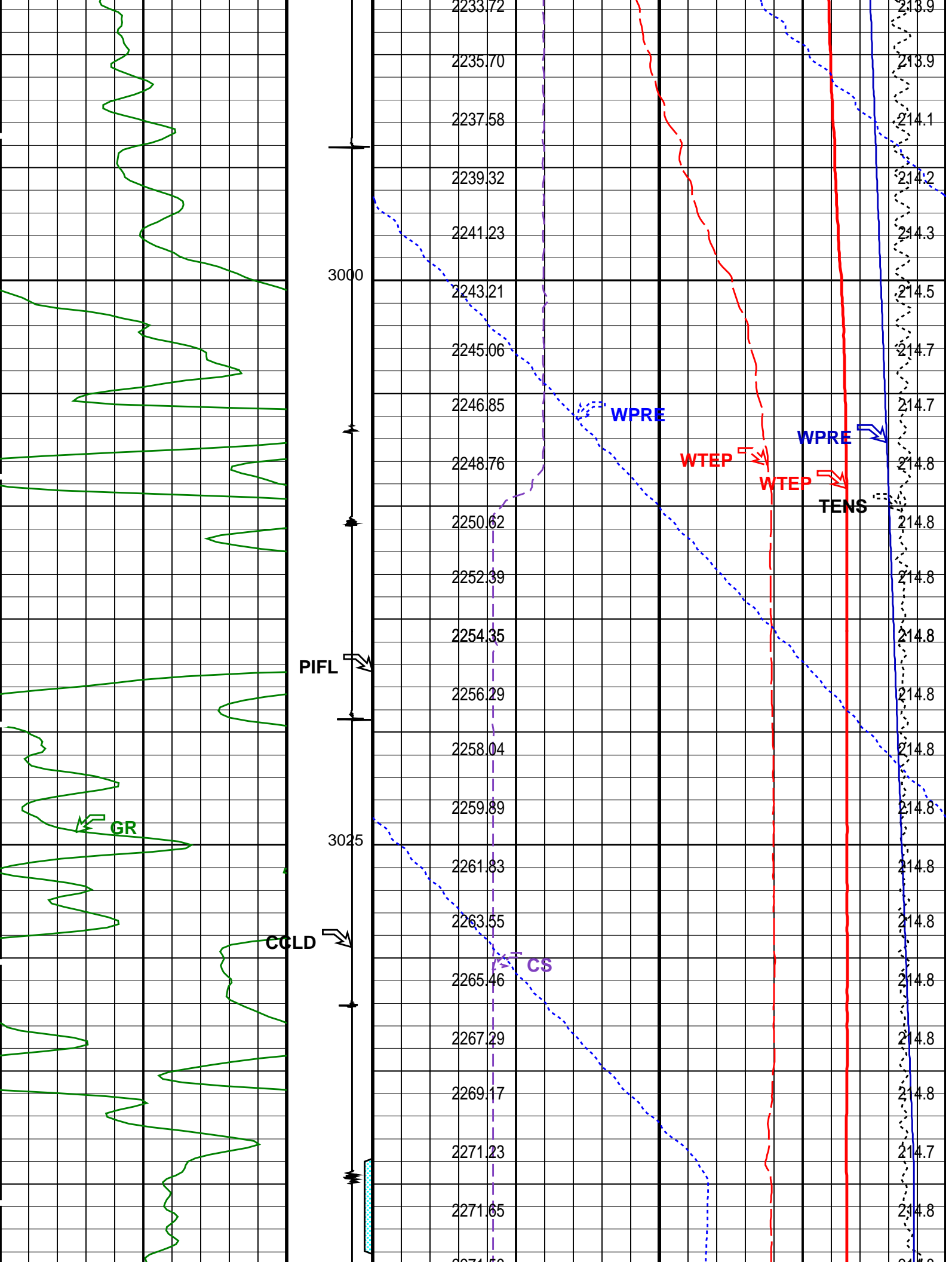


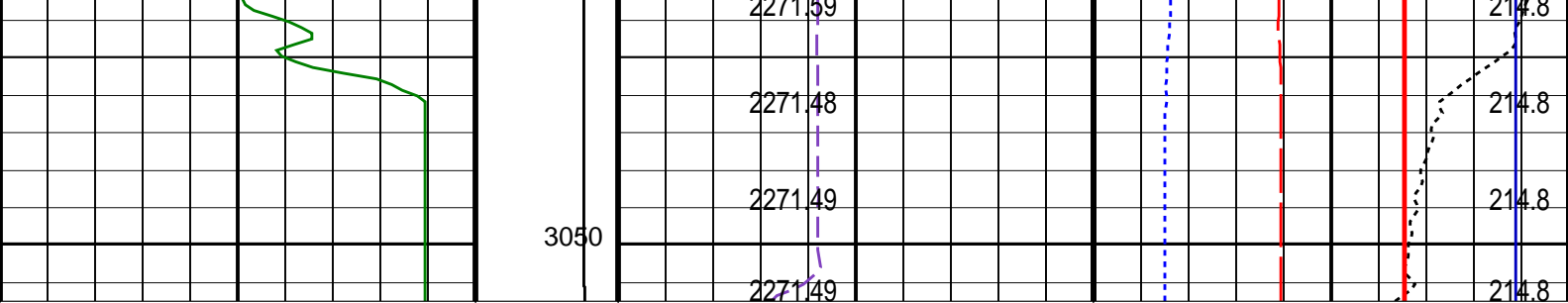












Gamma Ray (GR) (GAPI)		Discriminat ed CCL (CCLD)	Cable Speed (CS) (F/HR)		Tension (TENS) (LBF)	
0	150	3 (V) -1	0	5000	0	2000

Perfo Zone From PERFO_ CURVE to D3T	Well Temperature (WTEP)		
	190	(DEGF)	220
	Well Pressure (WPRE) (PSIA)		Temperature (WTEP) (DEGF)
	Well Temperature (WTEP)		
	0	(DEGF)	4
	Well Pressure (WPRE)		
	1800	(PSIA)	2300
	Amplified Well Pressure (WPRE)		
0	(PSIA)	20	

PIP SUMMARY		
Time Mark Every 60 S		
Format: PSP_1	Vertical Scale: 1:200	Graphics File Created: 18-Nov-2008 15:31

OP System Version: 16C0-147 MCM		
PSPT-A/B	SRPC-3624-Q2_2008_OP16	

Parameters		
DLIS Name	Description	Value
DO PP	System and Miscellaneous Depth Offset for Playback Playback Processing	-1.3 M NORMAL

Input DLIS Files						
DEFAULT	PSP_020LUP	FN:19	PRODUCER	18-Nov-2008 14:52	3052.9 M	2476.3 M
Output DLIS Files						
DEFAULT	PSP_023PUP	FN:22	PRODUCER	18-Nov-2008 15:31		

Company:	Esso Australia Pty Ltd.	Schlumberger
Well:	A-15a	
Field:	Tuna	
Rig:	Crane / Prod 4	
Country:	Australia	

2-1/8" Phased Powerjet MWD
Perforation Record
7" Posiset Plug Setting Record