

Company: Esso Australia Pty Ltd

Well: A-7

Field: Tuna

Rig: Crane/Prod 2

Country: Australia

MWPT 2 1/8" Enerjet Perforation
4 1/2" Posiset Plug

Crane/Prod 2
Tuna
Gippsland
A-7
Esso Australia Pty Ltd

Rig:
Field:
Location:
Well:
Company:

LOCATION	
Gippsland	Elev.: K.B. 32.4 m
Basin	G.L. -59 m
Bass Strait	D.F. 32.4 m
Permanent Datum:	M.S.L.
Log Measured From:	D.F.
Drilling Measured From:	D.F.

State: Victoria	Max. Well Deviation 56 deg	Longitude 148° 25' 06.5" E	Latitude 38° 10' 16.5" S
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Logging Date 9-Jul-2007

Run Number 1 thru 5

Depth Driller 2779 m

Schlumberger Depth 2772 m

Bottom Log Interval 2768.5 m

Top Log Interval 2732 m

Casing Fluid Type Production Fluids

Salinity

Density

Fluid Level

BIT/CASING/TUBING STRING

Bit Size 6.000 in

From

To

Casing/Tubing Size 4.500 in

Weight 12.6 lbm/ft

Grade 13-CR

From 1750 m

To 2832 m

Maximum Recorded Temperatures 219 degF

Logger On Bottom 9-Jul-2007

Unit Number 3827 Location Ausl / Prod 2

Recorded By S Gilbert , M Pratt.

Witnessed By D. Broomfield

Run 1Run 2Ru

Oil Density
Water Salinity
Gas Gravity
Bo

Bw
1/Bg
Bubble Point Pressure
Bubble Point Temperature
Solution GOR

Maximum Deviation 56 deg
CEMENTING DATA
Primary/Squeeze
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: 7-JUL-2007 11:26:31

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-B/A	Type:	2-32ZT
Serial Number:	794	Serial Number:	1711	Serial Number:	24187
Calibration Date:	20-Mar-2007	Calibration Date:	07-Jul-2007	Length:	7260.03 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1711	Conveyance Method: Wireline Rig Type: Offshore_Fixed	
Calibration Cable Type:	2-32ZT	Calibration Gain:	0.99		
Wheel Correction 1:	-5	Calibration Offset:	-495.00		
Wheel Correction 2:	-4				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Tuna A7
Reference Log Run Number:	Unknown
Reference Log Date:	Unknown

Depth Control Remarks

1.
2.
3.
4.
5.
6.

DISCLAIMER

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OTHER SERVICES1
OS1: None
OS2:
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
Log Correlated to Solar composite log provided by client.
Objectives: Set 4.5" Possiset plug with top of seal @ 2769m MDKB then dump approx 1m of Cement on Top.
Perforate using 2 1/8" Phased Enerjet and MWPT over the interval
2732m to 2734.5m MDKB. Measure static Bottom hole Pressure and Temperature
Before Gun SBHP:2524psia SBHT: 219degf After Gun SBHP:2535psia SBHT: 221degf
C

Gun #1

Top shot @ 2732m MDKB

CCL to top shot : 3.7m

CCL stop depth : 2728.3

Plug # 1

Top of seal : 2769m MDKB

CCL to top of seal : 6.9m

CCL Stop depth : 2762.2m MDKB

Crew : P. Flood, G. Brady (Days)

RUN 1 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT		SURFACE EQUIPMENT	
MWPM-AA 37		MPBM-081 81	

DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
AH-SWBS-B 785		11.70	AH-SWHS-B 785		11.57
AH-SWBS-B 785		11.16	AH-SWBS-B 786		10.88
AH-SWBS-B 787		10.63	AH-SWBS-B 787		10.20
AH-SWHS-A 759		10.10	AH-SWHS 759		9.51
AH-124 AH-124		9.79	CCL-PCCL 07202 CCL-PCCL 7202		9.13
MWGT-AA MWPG-AA MWGH-AA 68	MWPG GR — 2.41	9.49	MPSU-CA 1102 MPSU-CA 1102		8.67
MWPT-CA MWPH-AA 90 MWPS-AA 121		8.51			
	CCL SMWP Pres SMWP Temp Tension — TOOL ZERO				
AH-Flex Joint AH-Flex Joint 2		5.69			
SAH-G SAH-G 1000		5.11			

SAH-G 1032

MPD-MB
MPD-MB 217

AH-ESIC
AH-ESIC 6075419

MWP_GUN
GUN-2.5m 2 1/8" Phased Powjet Gun

4.50

3.96

3.66

MPEX-BA
MPEX-BA

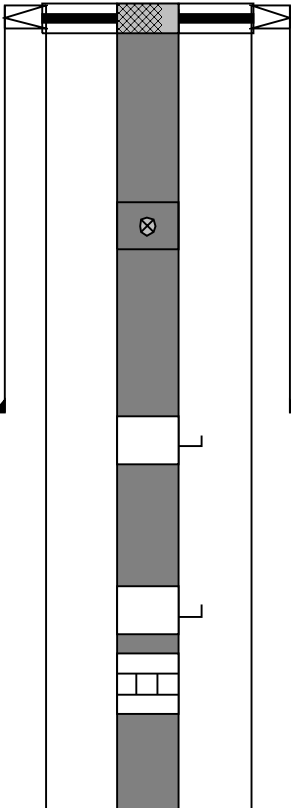
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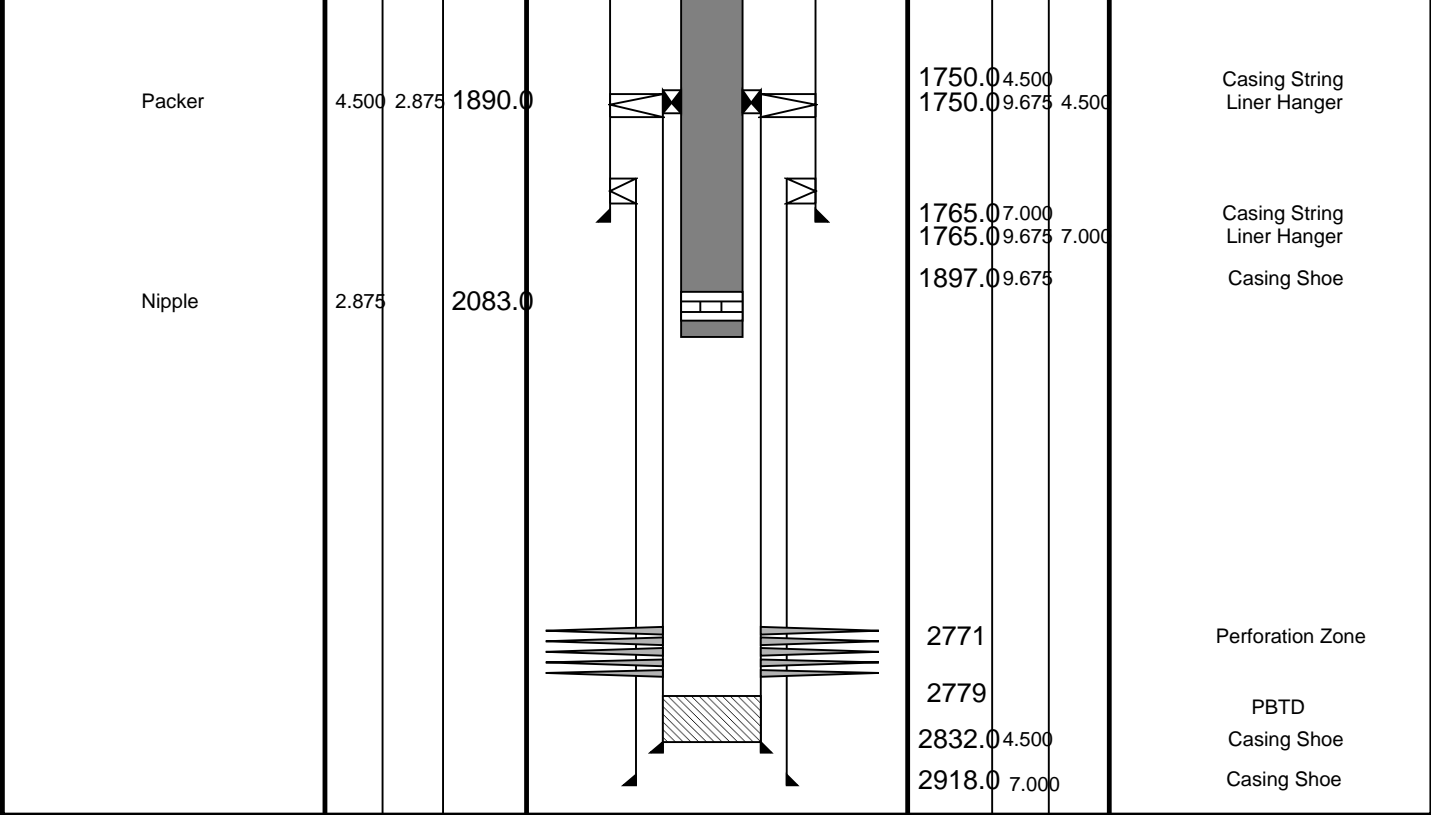
TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Tubing Hanger	2.875 9.875	2.875	13.5 13.4		14.5 14.5 14.5	13.375 9.675 13.375	59.675	Casing String Casing String Liner Hanger
SSSV	2.875		447.0					
Gas Lift Mandrel	2.875		1060.0		735.0	13.375		Casing Shoe
Gas Lift Mandrel	2.875		1615.0					
Nipple	2.875		1630.0					



Schlumberger

Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Log Pass (up)	7-Jul-2007 17:29	001:10	2781.0 - 2057.6	PSP_024LUP
Log Pass (up)	9-Jul-2007 12:36	000:07	2760.3 - 2697.0	PERFO_045LUP
Station Log	9-Jul-2007 12:48	000:14	2760.3 - 2.0	PERFO_046LTP
Log Pass (up)	9-Jul-2007 13:09	000:26	2759.8 - 2674.5	PERFO_048LUP
Station Log	9-Jul-2007 13:14	000:15	2728.3 - 2.2	PERFO_049LTP
Log Pass (up)	10-Jul-2007 8:55	000:07	2719.9 - 2660.8	MPBT_063LUP
Simulated Log	10-Jul-2007 9:16	000:25		MPBT_067LUP
Log Pass (up)	10-Jul-2007 9:42	000:06	2762.1 - 2712.0	MPBT_068LUP
Log Pass (up)	10-Jul-2007 12:51	000:13	2763.6 - 2704.3	PERFO_073LUP
Log Pass (up)	10-Jul-2007 15:24	000:09	2764.5 - 2698.0	PERFO_077LUP



Cement Dump Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd Well: A-7

Output DLIS Files

DEFAULT PERFO_077LUP FN:70 PRODUCER 10-Jul-2007 15:24 2764.5 M 2698.0 M

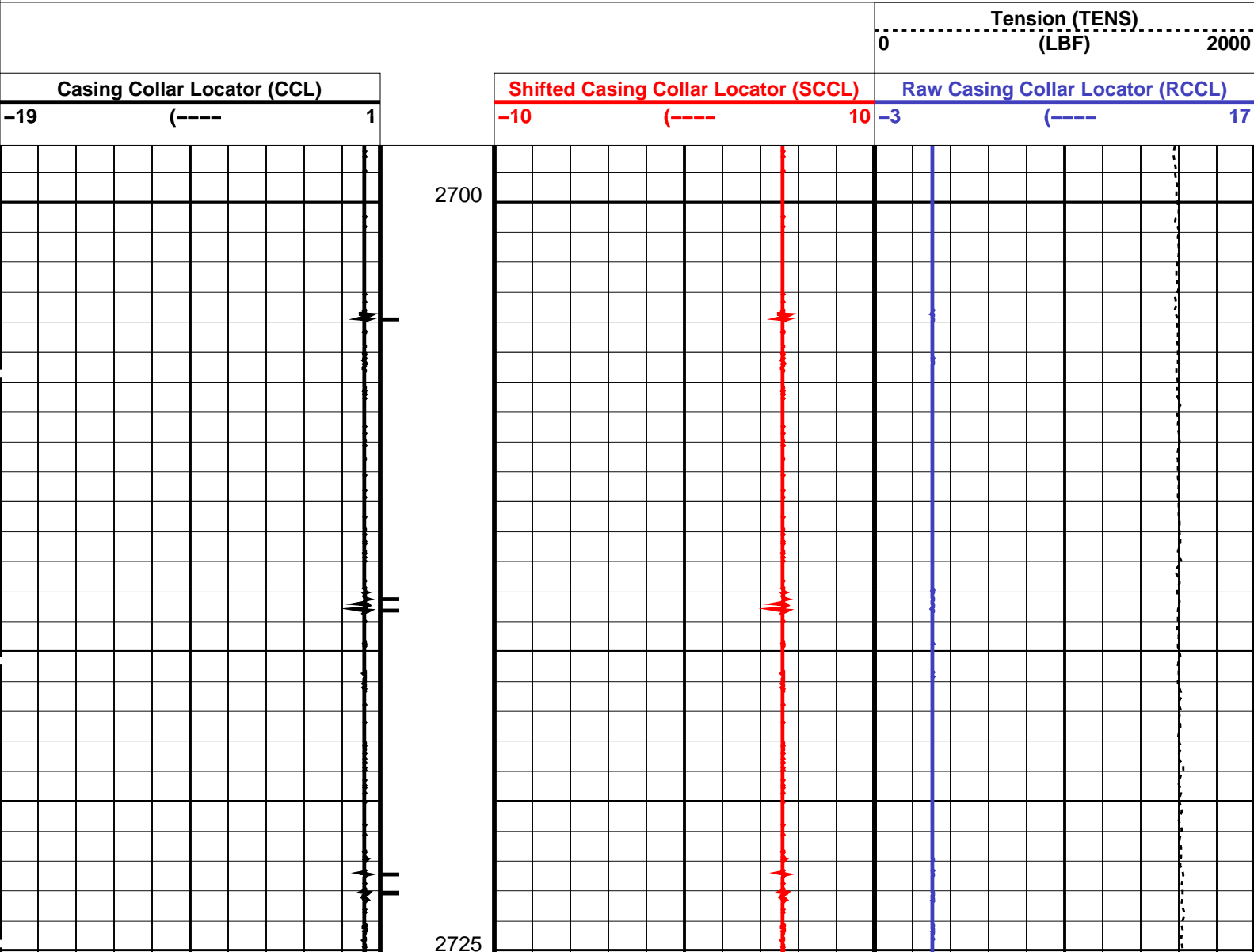
OP System Version: 15C0-309
MCM

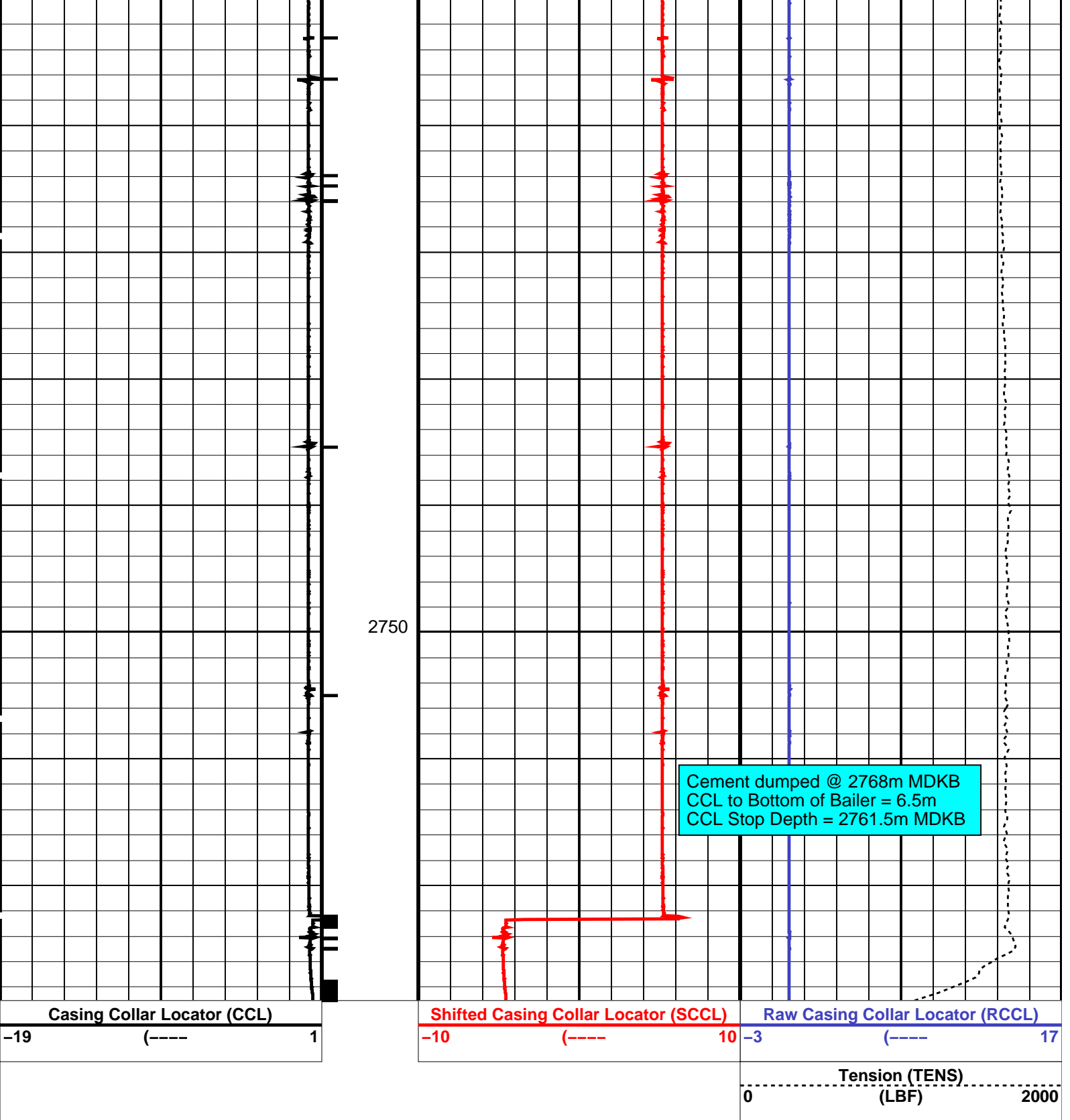
SHM_GUN 15C0-309 CCL-L 15C0-309

PIP SUMMARY

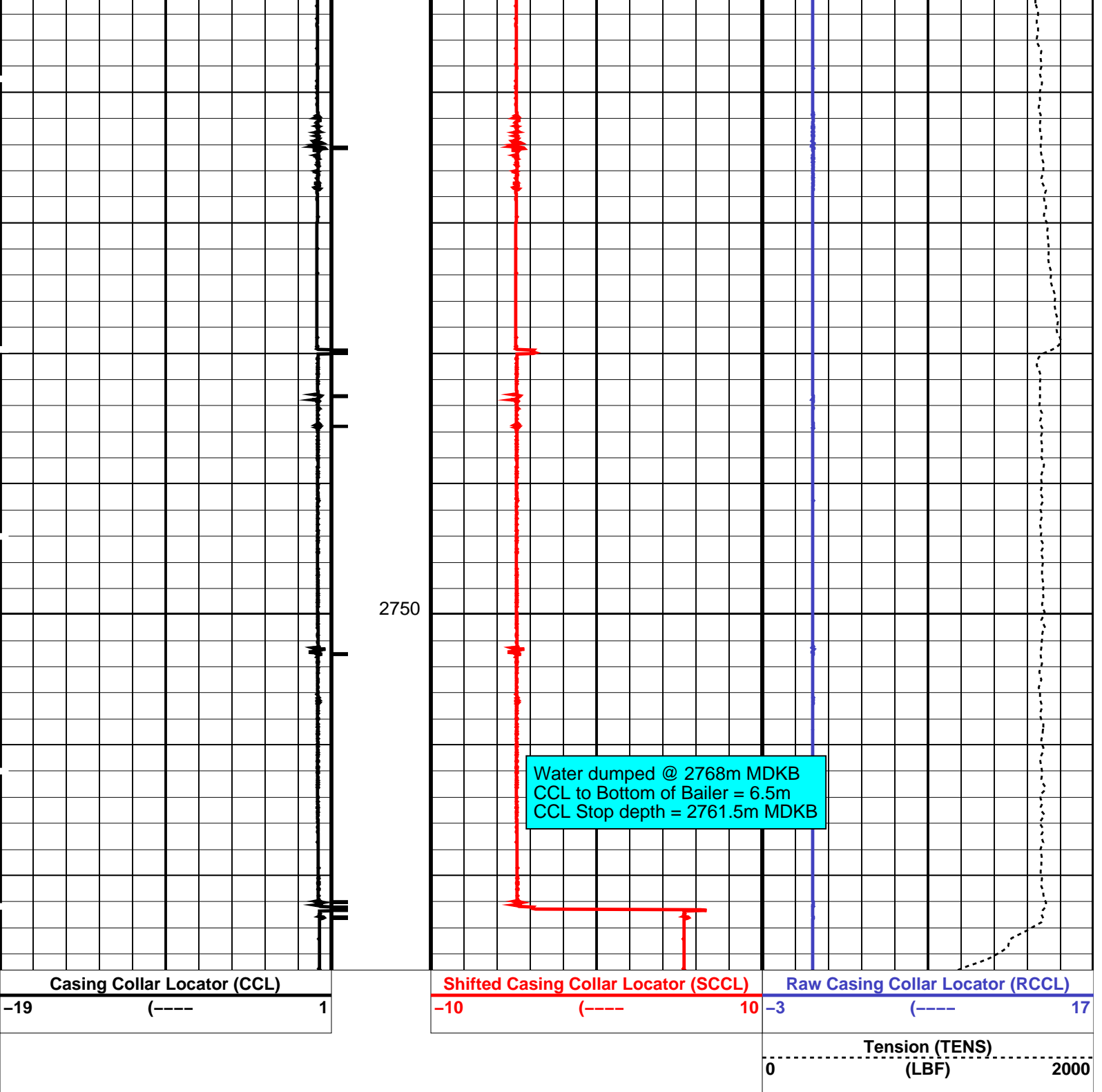
Casing Collars

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: CCLLog Vertical Scale: 1:200		Graphics File Created: 10-Jul-2007 15:24



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: CCLLog Vertical Scale: 1:200

Graphics File Created: 10-Jul-2007 12:51

OP System Version: 15C0-309

MCM

SHM_GUN

15C0-309

CCL-L

15C0-309

Output DLIS Files

DEFAULT

PERFO_073LUP

FN:66

PRODUCER

10-Jul-2007 12:51

Schlumberger

**4.5" Posiset Plug
Top of seal @ 2769m MDKB**

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: A-7

Output DLIS Files

DEFAULT

MPBT_067LUP

FN:60

PRODUCER

10-Jul-2007 09:16

12192.0 M

11824.3 M

OP System Version: 15C0-309

MCM

MPEX-BA
CCL-PCCL

15C0-309
15C0-309

MPSU-CA

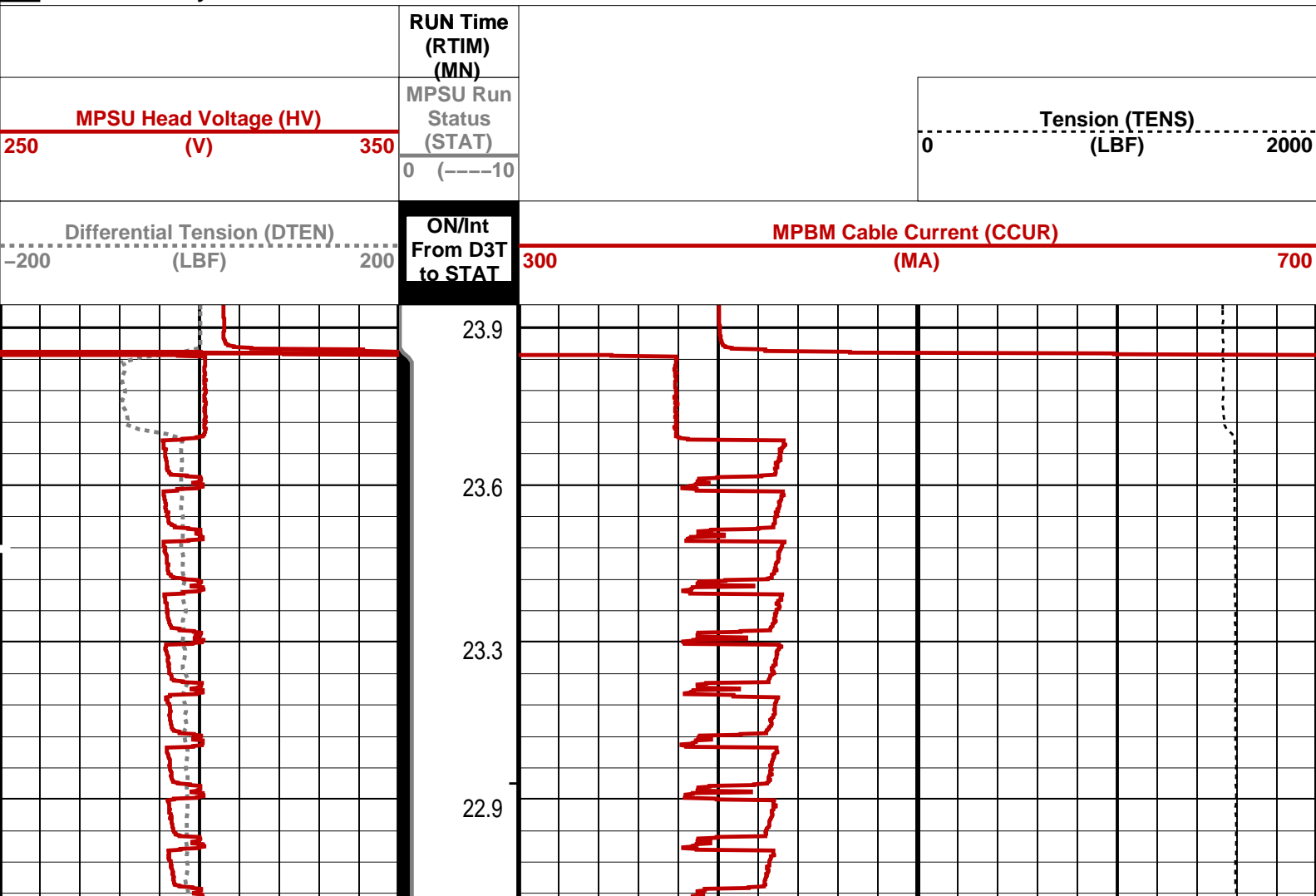
15C0-309

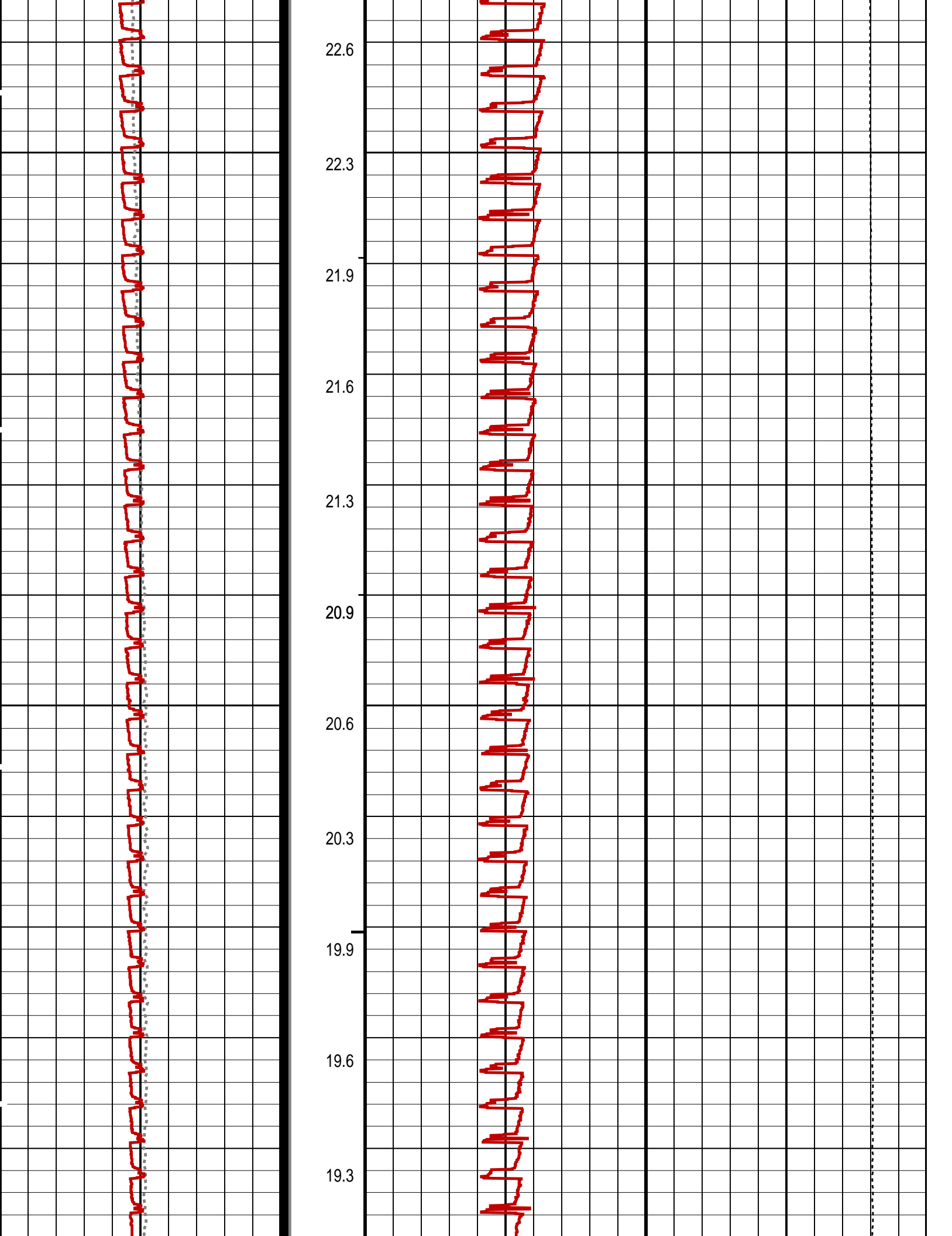
PIP SUMMARY

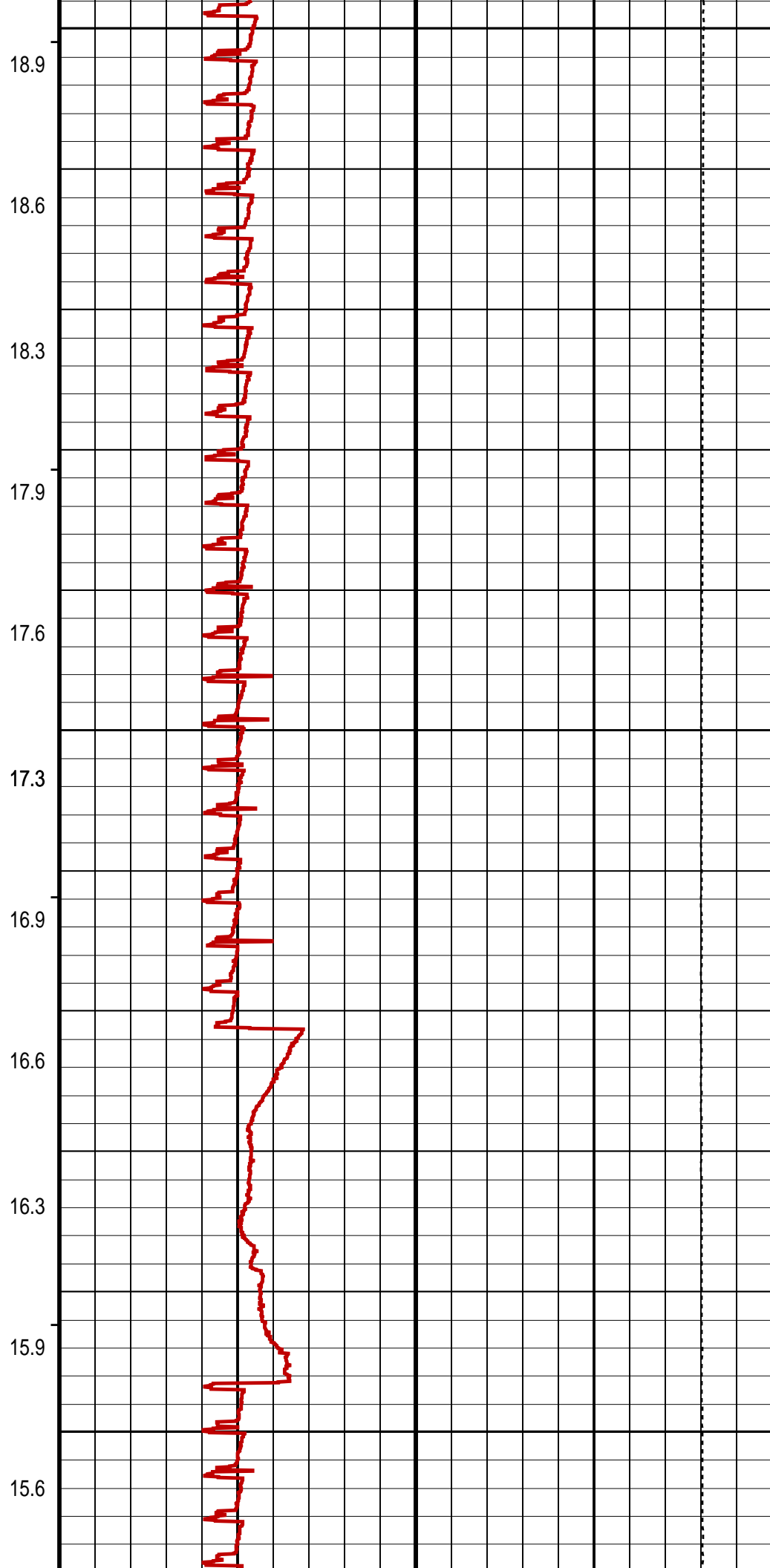
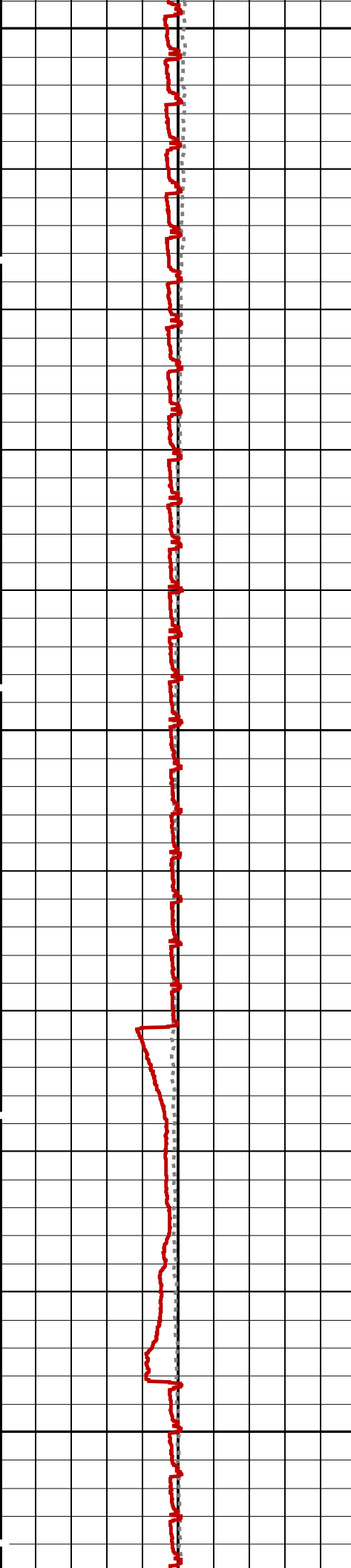
→ MPSU Run Time Every 1 MN

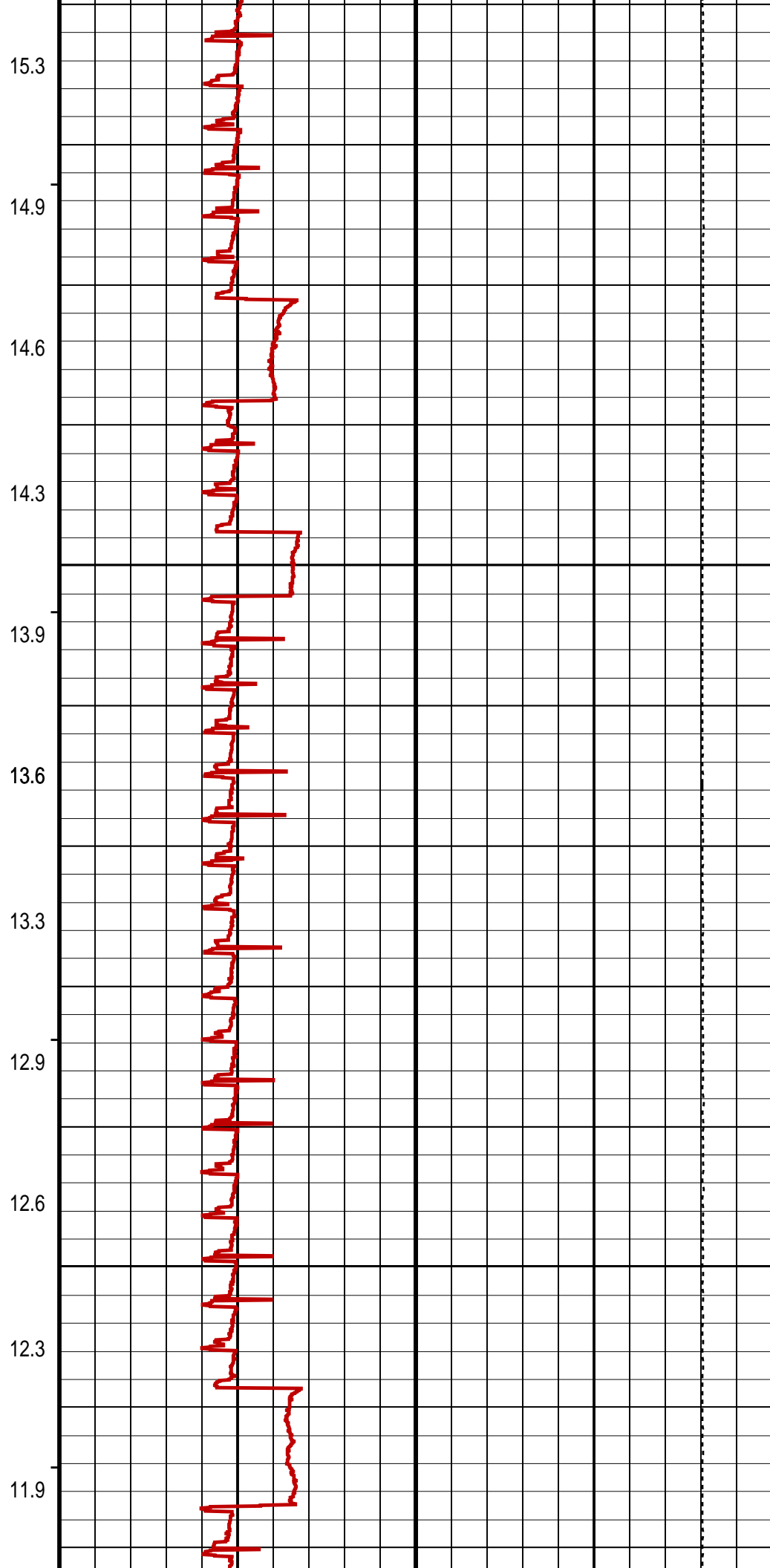
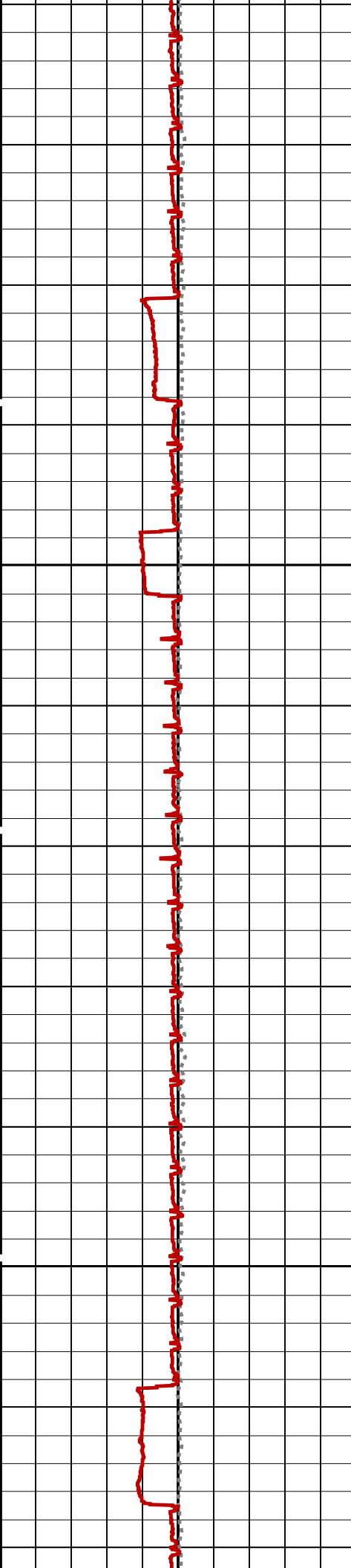
→ MPSU Run Time Every 10 MN

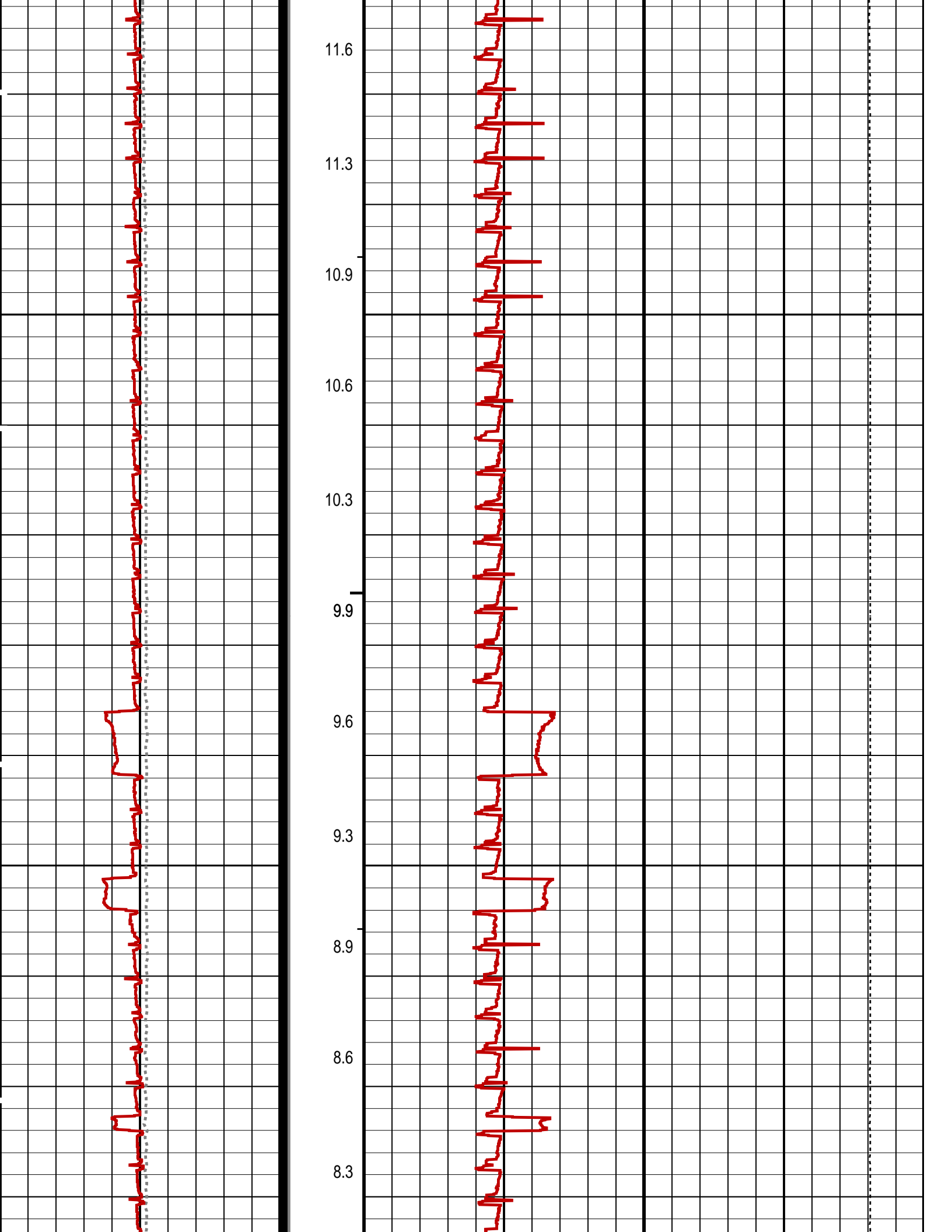
Time Mark Every 60 S

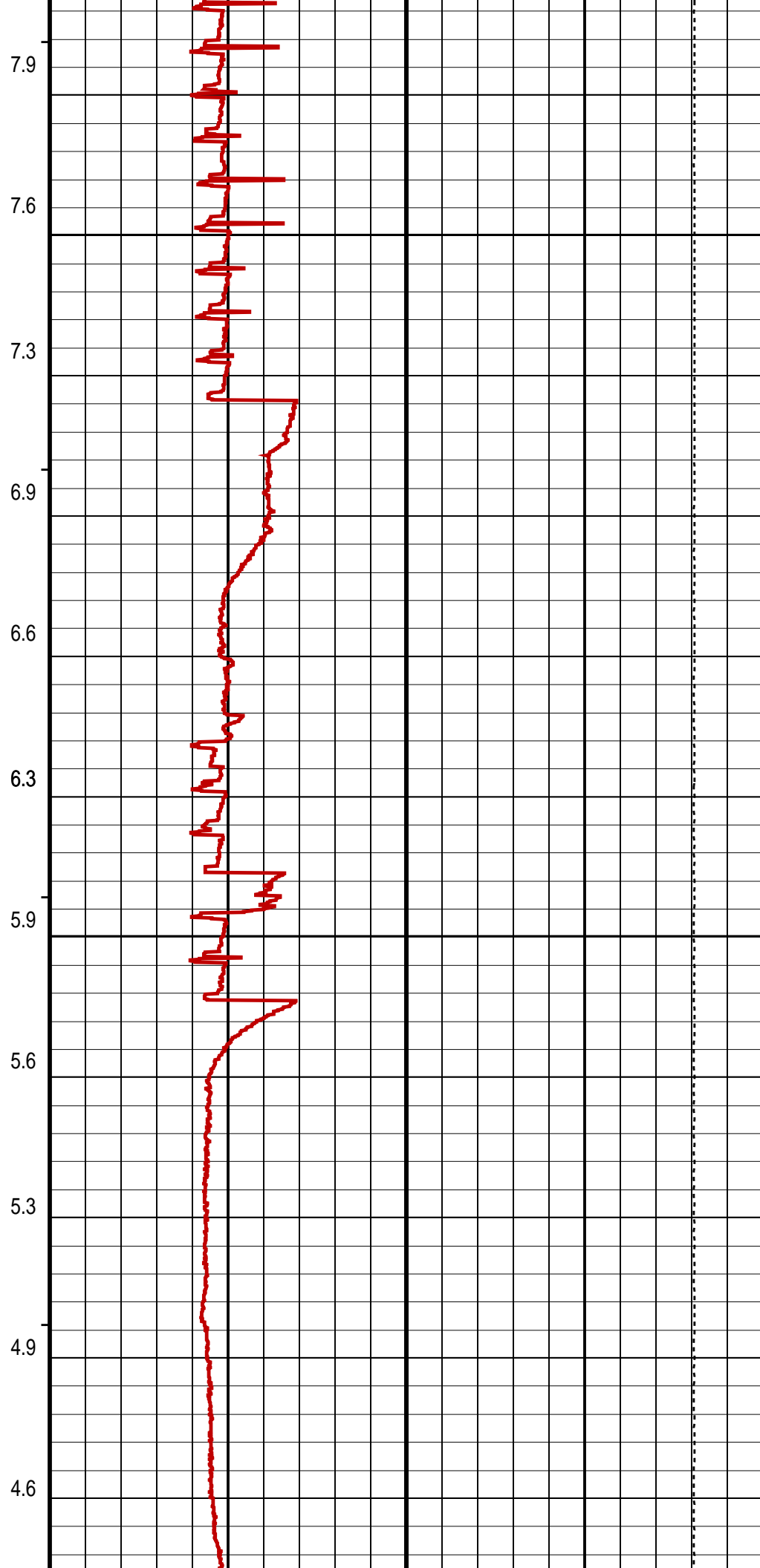
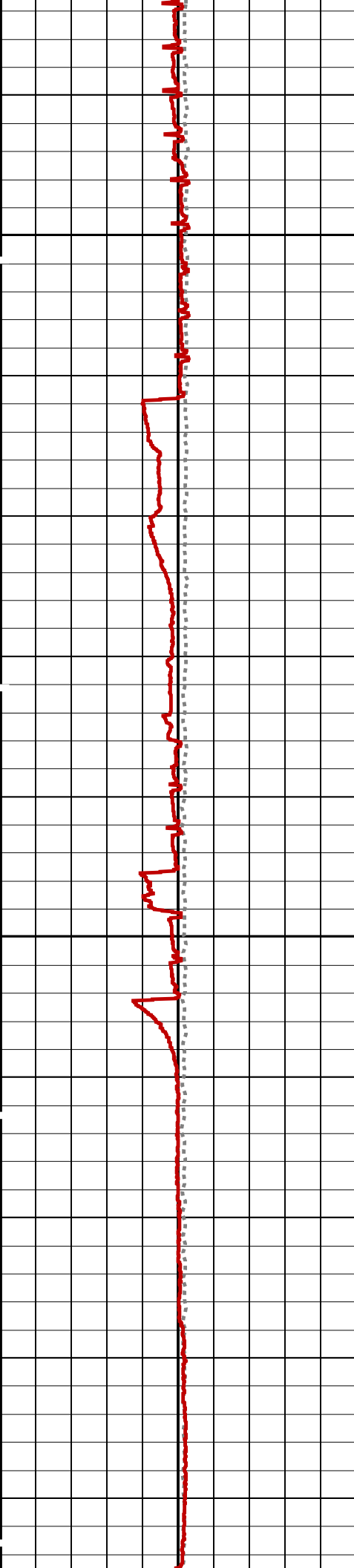


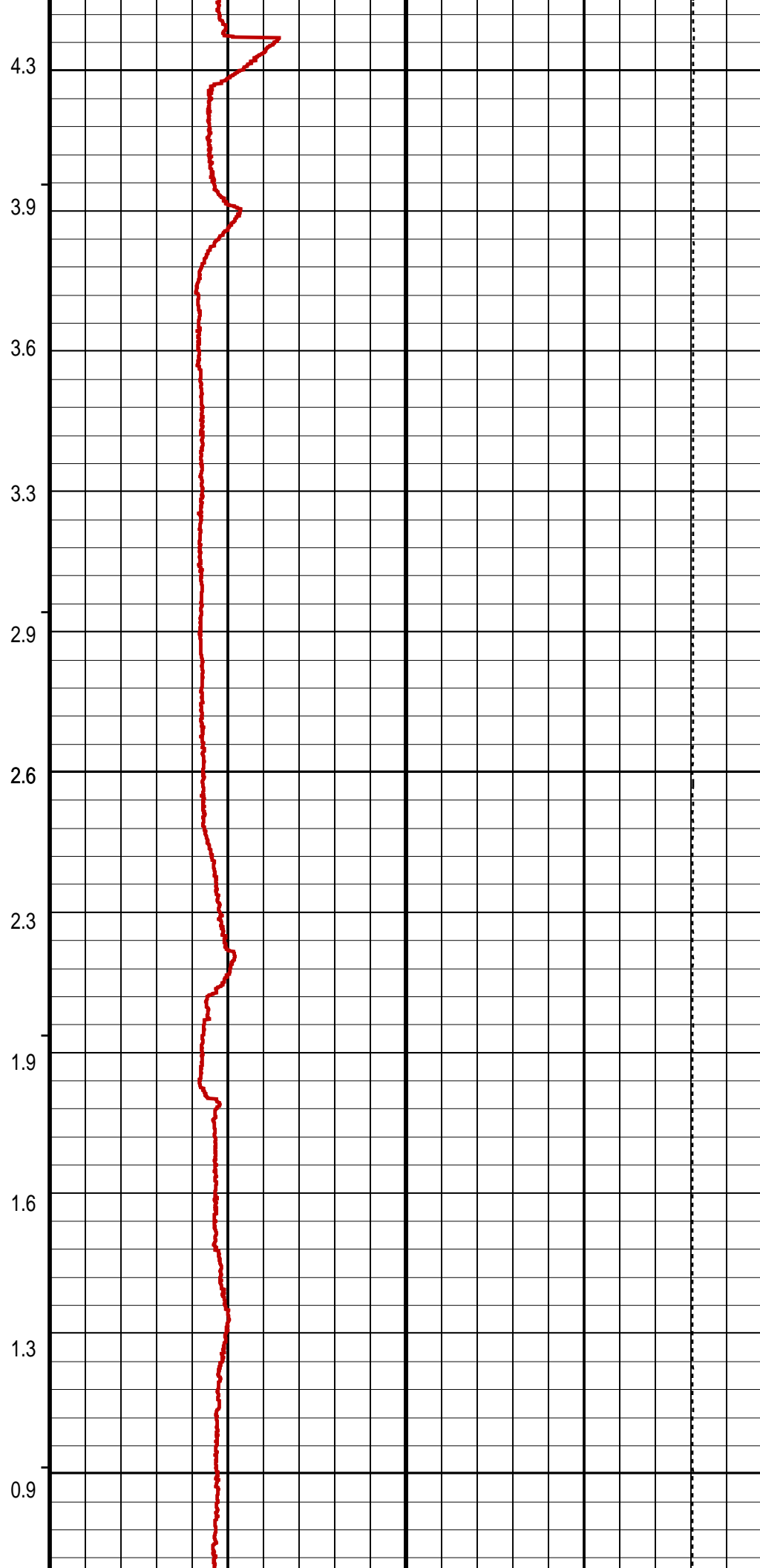
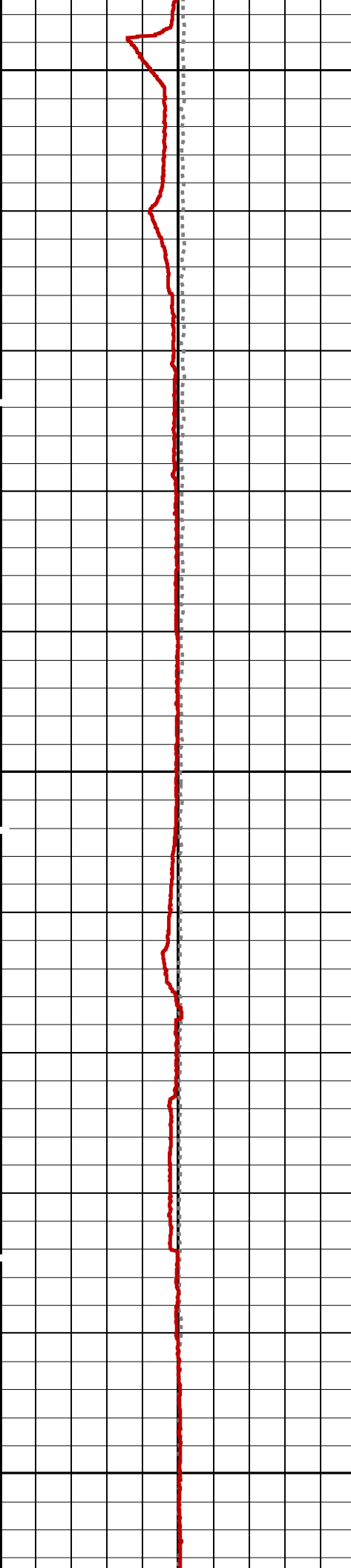


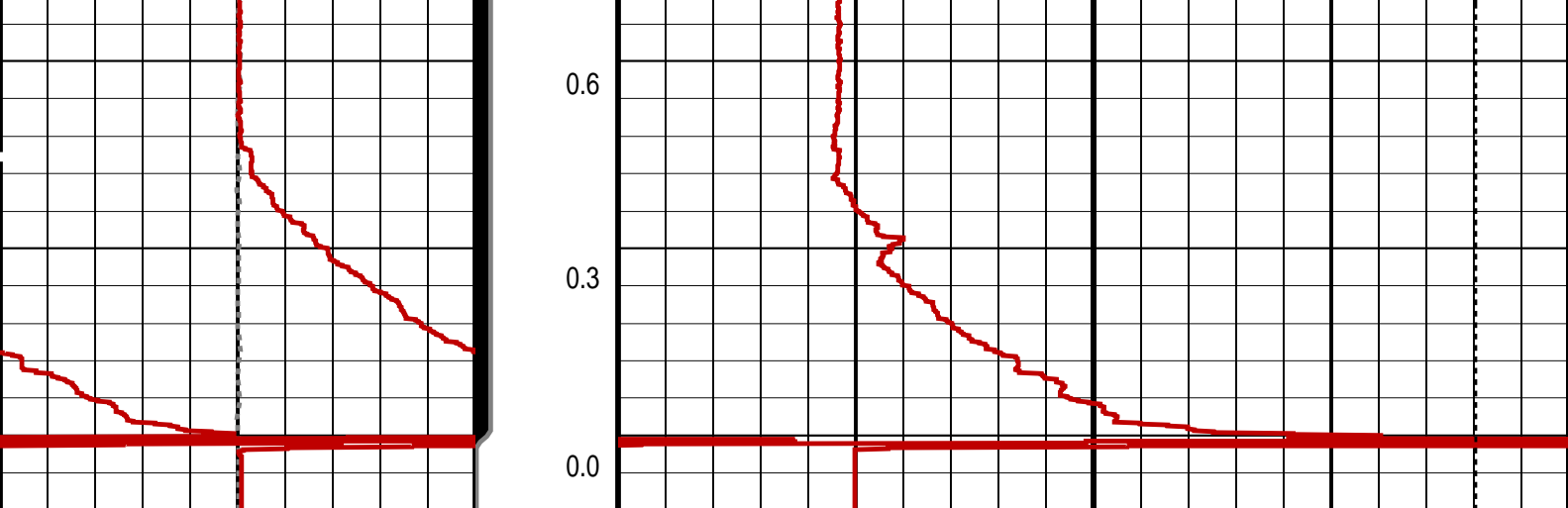












Differential Tension (DTEN) (LBF)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR) (MA)	Tension (TENS) (LBF)
-200 200		300 700	0 2000
MPSU Head Voltage (HV) (V)	MPSU Run Status (STAT)		
250 350	0 (----10)		
	RUN Time (RTIM) (MN)		

PIP SUMMARY

→ MPSU Run Time Every 1 MN

→ MPSU Run Time Every 10 MN

Time Mark Every 60 S

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

Format: MPBT Vertical Scale: 1:200 Graphics File Created: 10-Jul-2007 09:16

OP System Version: 15C0-309			
MCM			
MPEX-BA	15C0-309	MPSU-CA	15C0-309
CCL-PCCL	15C0-309		

Output DLIS Files			
DEFAULT	MPBT_067LUP	FN:60 PRODUCER	10-Jul-2007 09:16



Log Away From
4.5" Plug Setting

MAXIS Field Log

Output DLIS Files			
DEFAULT	MPBT_067LUP	FN:61 PRODUCER	10-Jul-2007 09:16 2762.1 M 2712.0 M

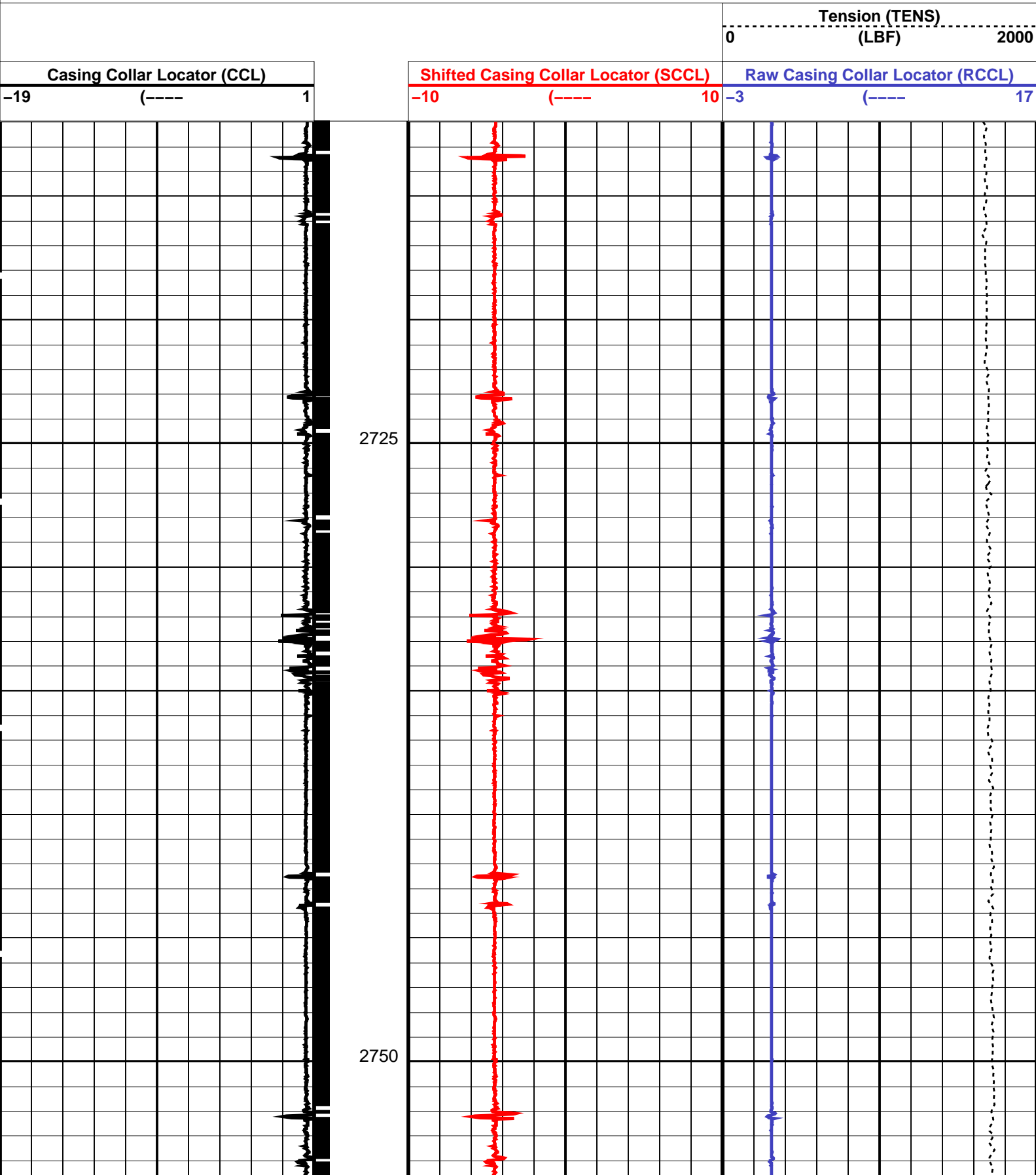
OP System Version: 15C0-309
MCM

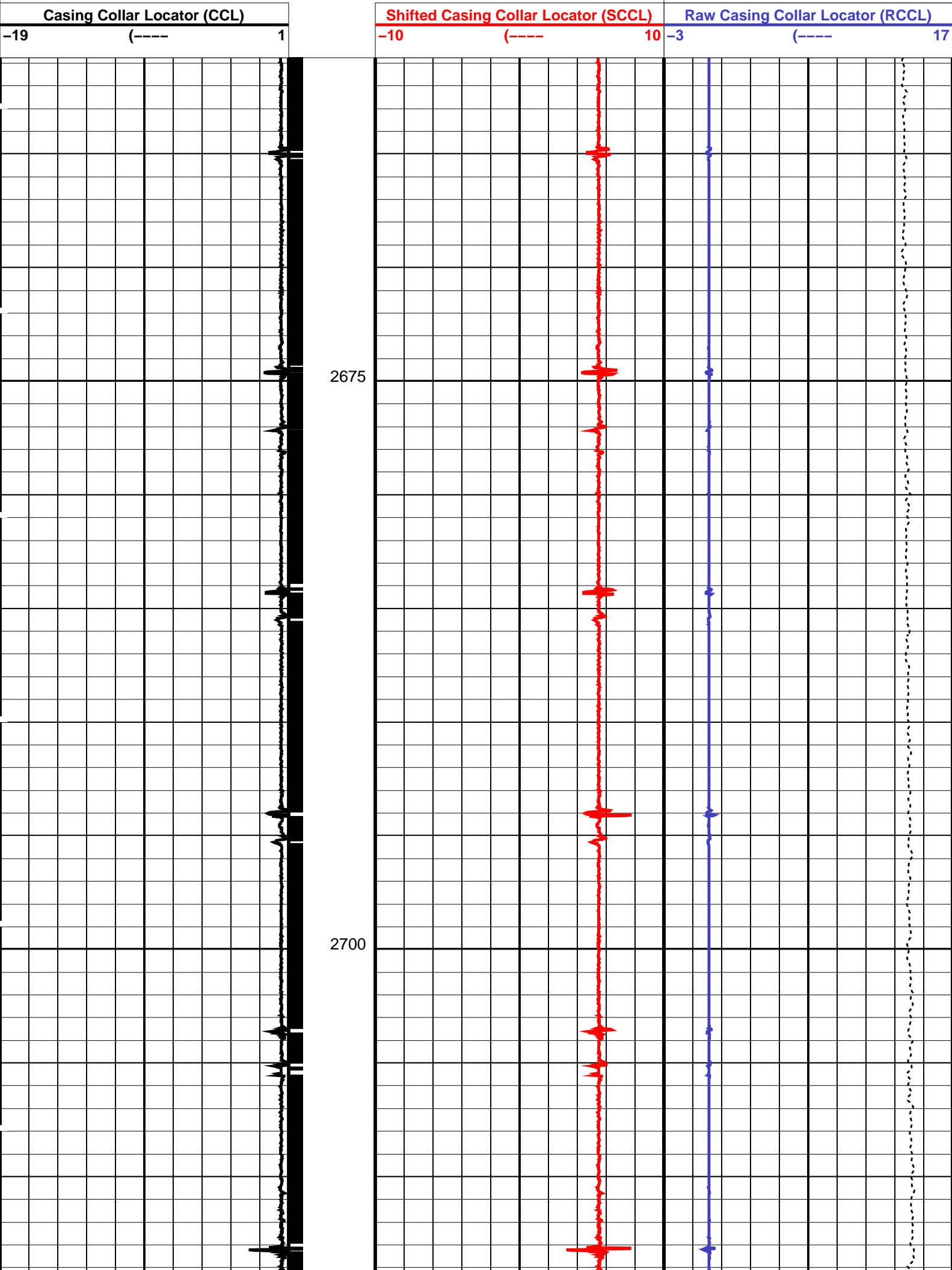
MPEX-BA 15C0-309 MPSU-CA 15C0-309
CCL-PCCL 15C0-309

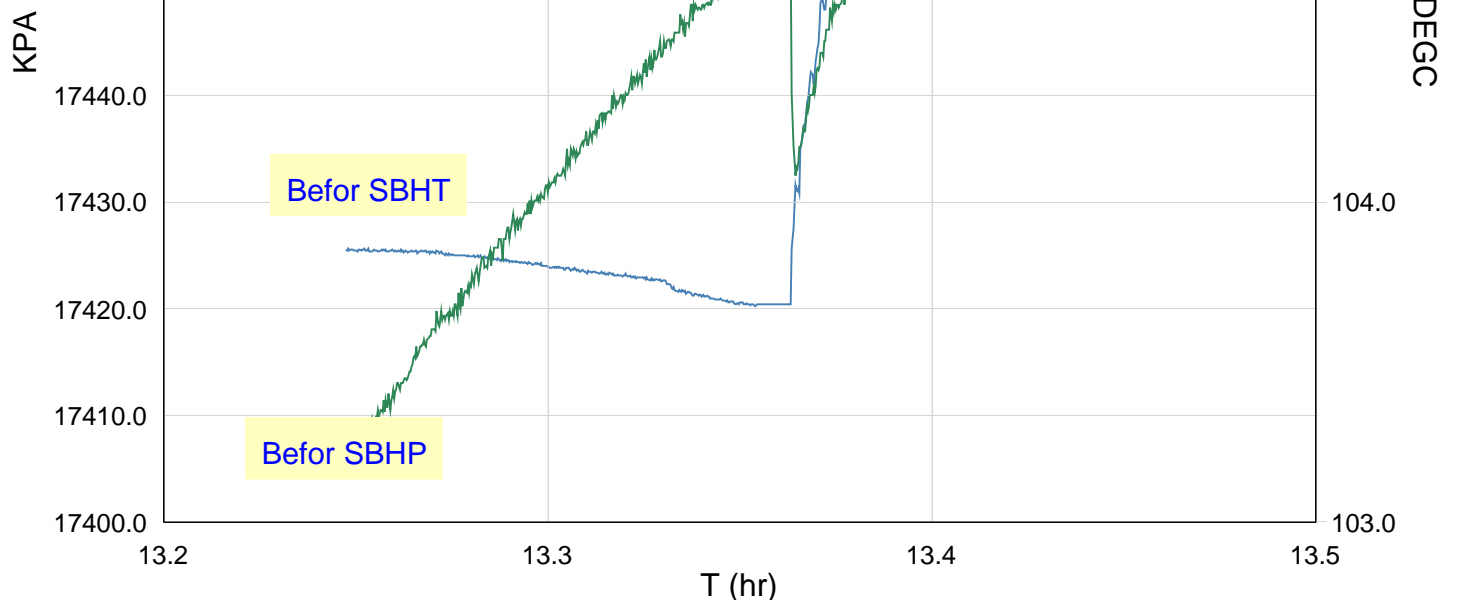
PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S







TIME	SGPA_SL	TEMP_MWPT_SL
6780.0	2524.3362	218.9261
6810.0	2524.7196	218.9274
6840.0	2525.4461	218.9211
6870.0	2526.0449	218.9273
6900.0	2526.6889	218.8997
6930.0	2527.3282	218.8834
6960.0	2527.7856	218.8610
6990.0	2528.2912	218.8308
7020.0	2528.9036	218.8119
7050.0	2529.3296	218.7908
7080.0	2529.8032	218.7667
7110.0	2530.4611	218.7082
7140.0	2530.8316	218.6592
7170.0	2531.4246	218.6246
7200.0	2531.4246	218.6231
7230.0	2529.3927	219.8747
7260.0	2530.8452	220.5848
7290.0	2531.7771	221.0776
7320.0	2532.4190	221.4233
7350.0	2533.0009	221.3462
7380.0	2533.3845	221.5344
7410.0	2533.6294	221.3652
7440.0	2533.8449	221.3688
7470.0	2534.1369	221.4082
7500.0	2534.3955	221.2983
7530.0	2534.6250	221.2767
7560.0	2534.8702	221.2619
7590.0	2535.1158	221.2641
7620.0	2535.2382	221.0951
7650.0	2535.4540	221.0763

Company: Esso Australia Pty Ltd Well: A-7

Output DLIS Files

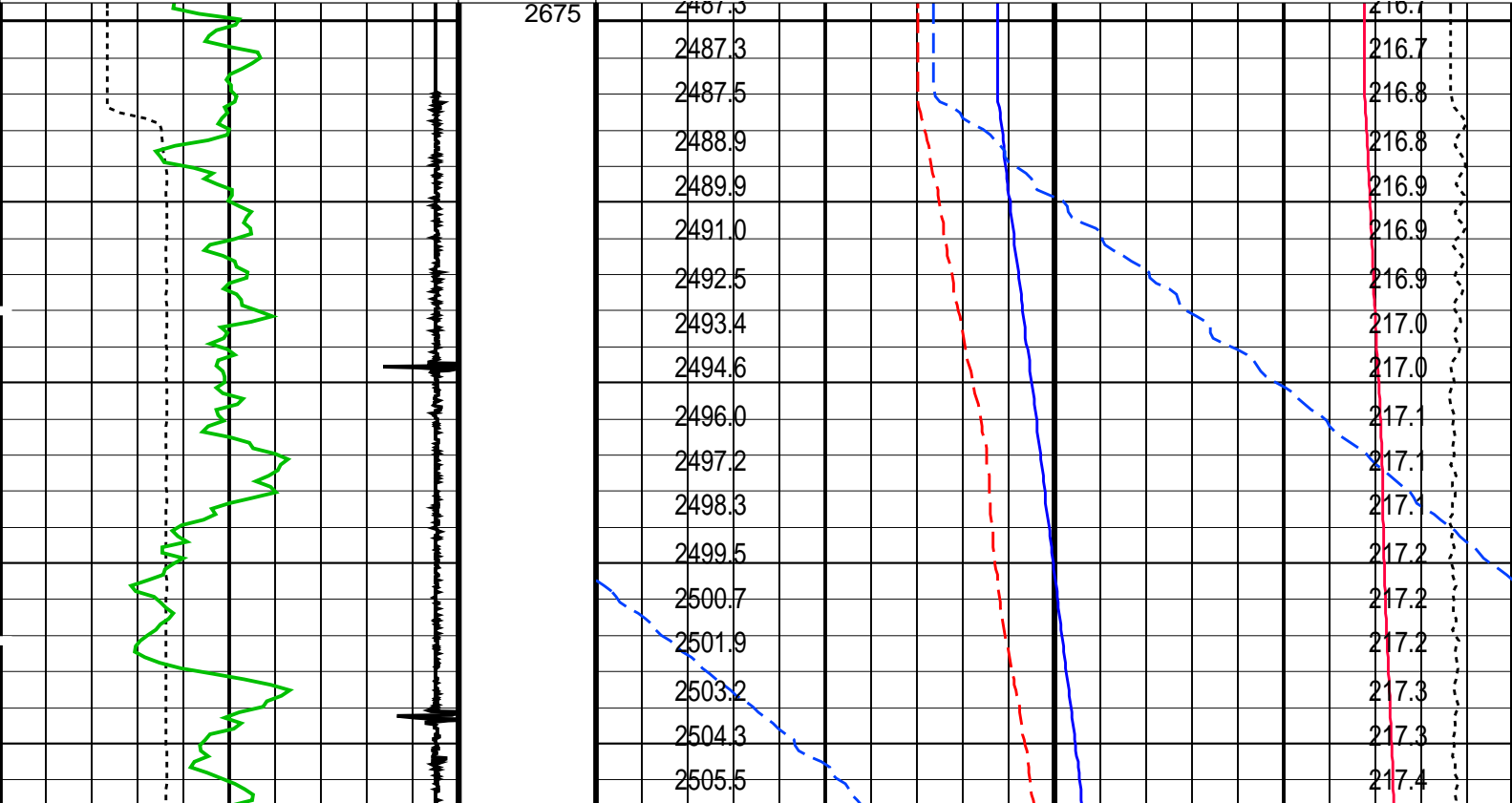
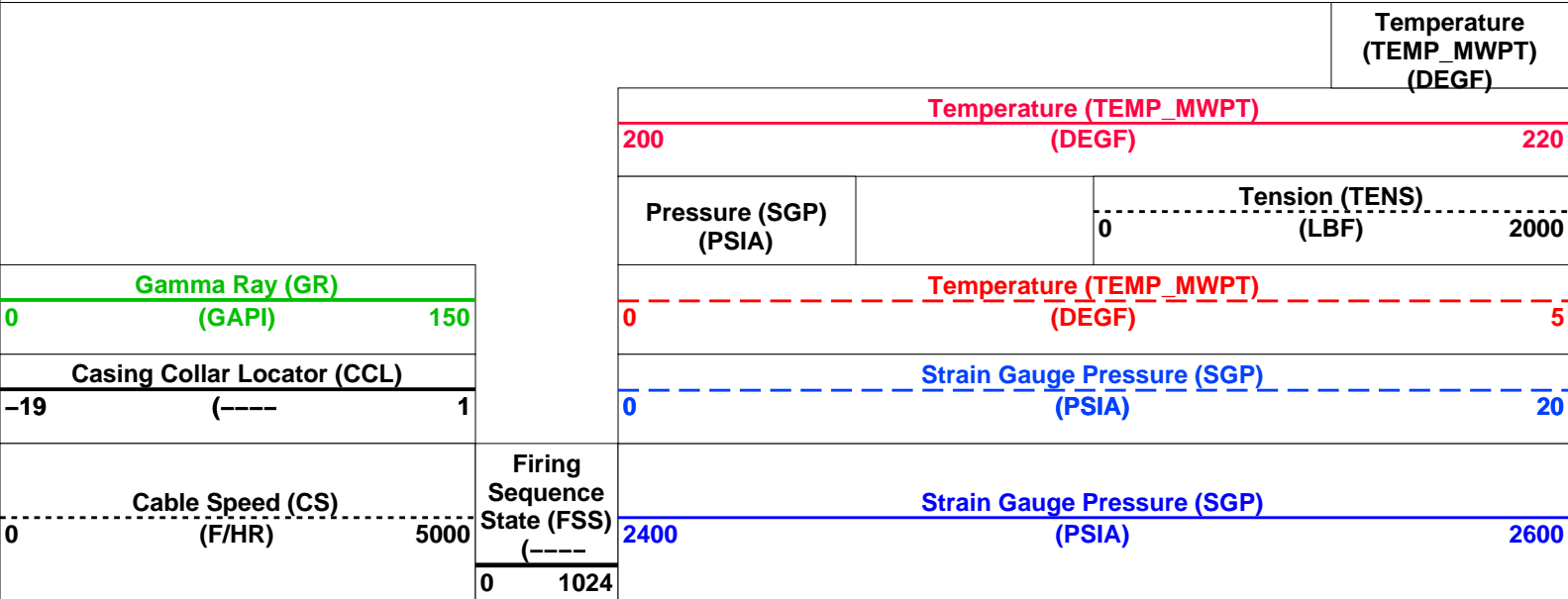
DEFAULT PERFO_048LUP FN:41 PRODUCER 09-Jul-2007 13:09 2759.8 M 2674.5 M

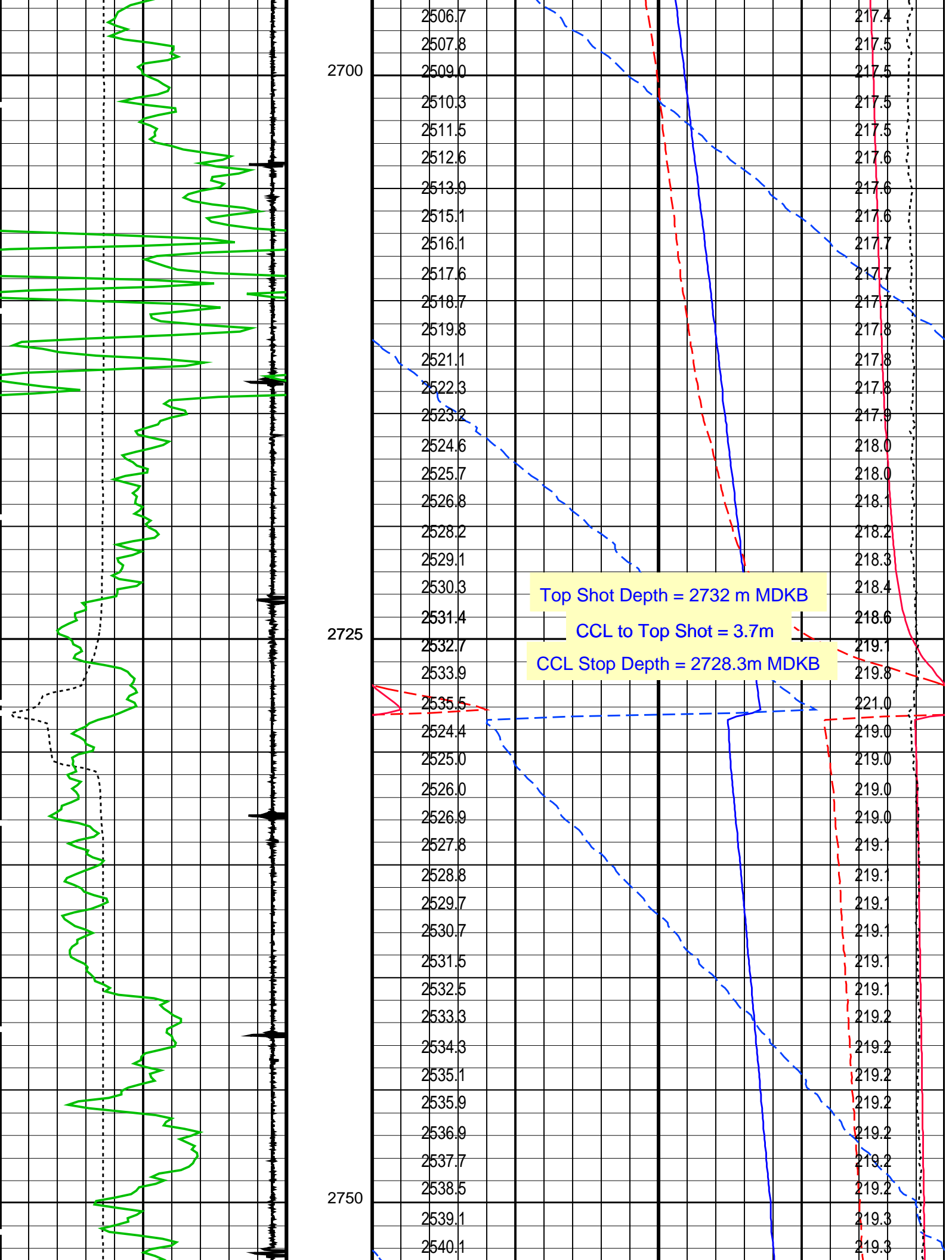
OP System Version: 15C0-309
MCM

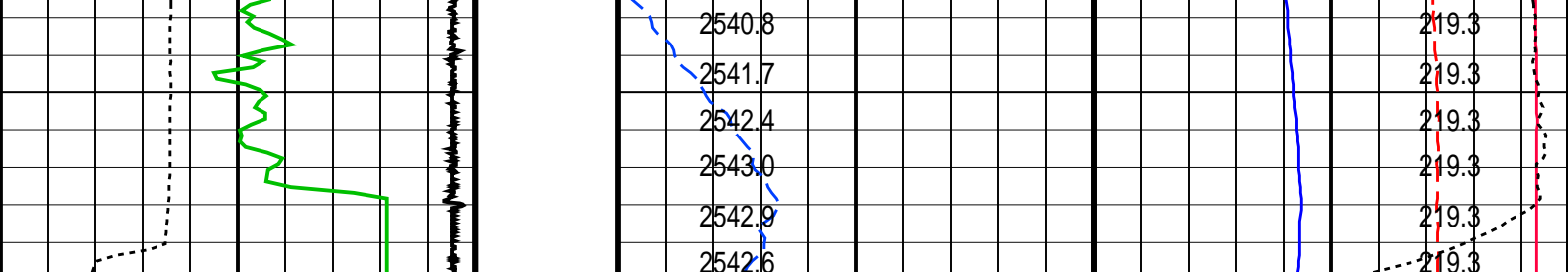
MWP_GUN 15C0-309 MWPT-CA 15C0-309
MWGT-AA 15C0-309

PIP SUMMARY

Time Mark Every 60 S







<div>Cable Speed (CS) (F/HR)</div> <div>05000</div> <div>Casing Collar Locator (CCL) (----</div> <div>-191</div> <div>Gamma Ray (GR) (GAPI)</div> <div>0150</div>	<div>Firing Sequence State (FSS) (----</div> <div>01024</div>	<div>Strain Gauge Pressure (SGP) (PSIA)</div> <div>24002600</div>		
		<div>Strain Gauge Pressure (SGP) (PSIA)</div> <div>020</div>		
		<div>Temperature (TEMP_MWPT) (DEGF)</div> <div>05</div>		
		<div>Pressure (SGP) (PSIA)</div> <div>200</div>	<div>Tension (TENS) (LBF)</div> <div>02000</div>	<div>Temperature (TEMP_MWPT) (DEGF)</div> <div>220</div>
				<div>Temperature (TEMP_MWPT) (DEGE)</div>

Time Mark Every 60 S

PIP SUMMARY

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: 09-Jul-2007 13:09

OP System Version: 15C0-309			
MCM			
MWP_GUN	15C0-309	MWPT-CA	15C0-309
MWGT-AA	15C0-309		

Output DLIS Files			
DEFAULT	PERFO_048LUP	FN:41 PRODUCER	09-Jul-2007 13:09



Gun Correlation Pass

MAXIS Field Log

OP System Version: 15C0-309

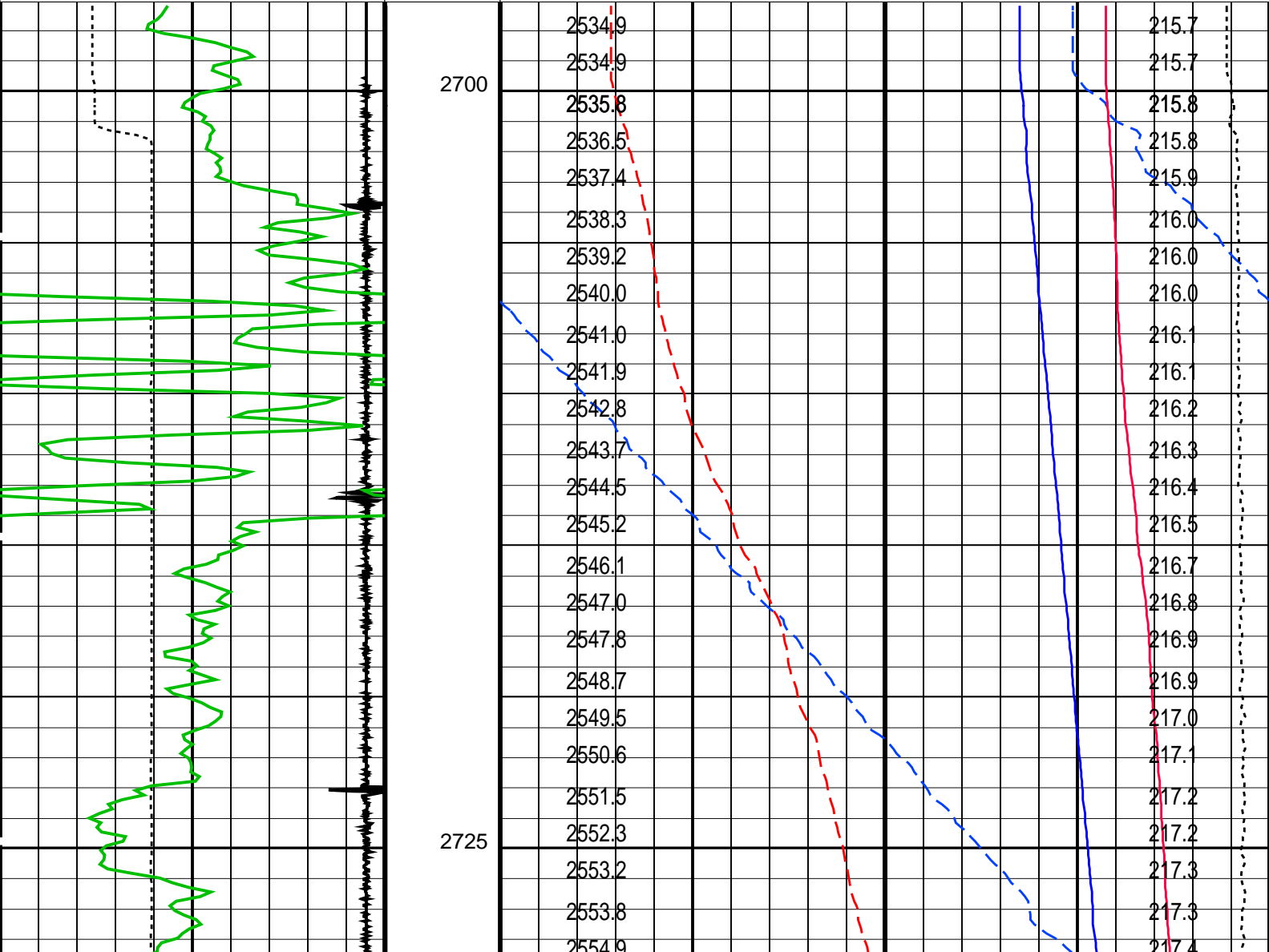
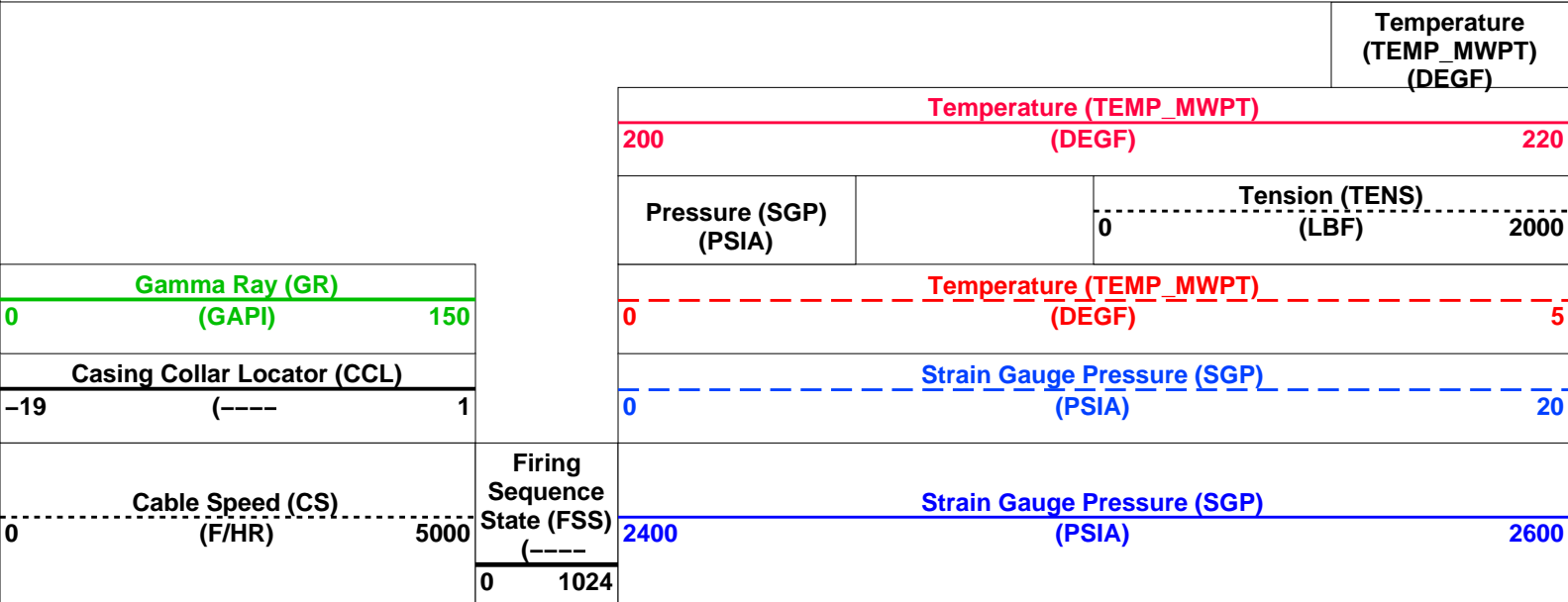
MCM

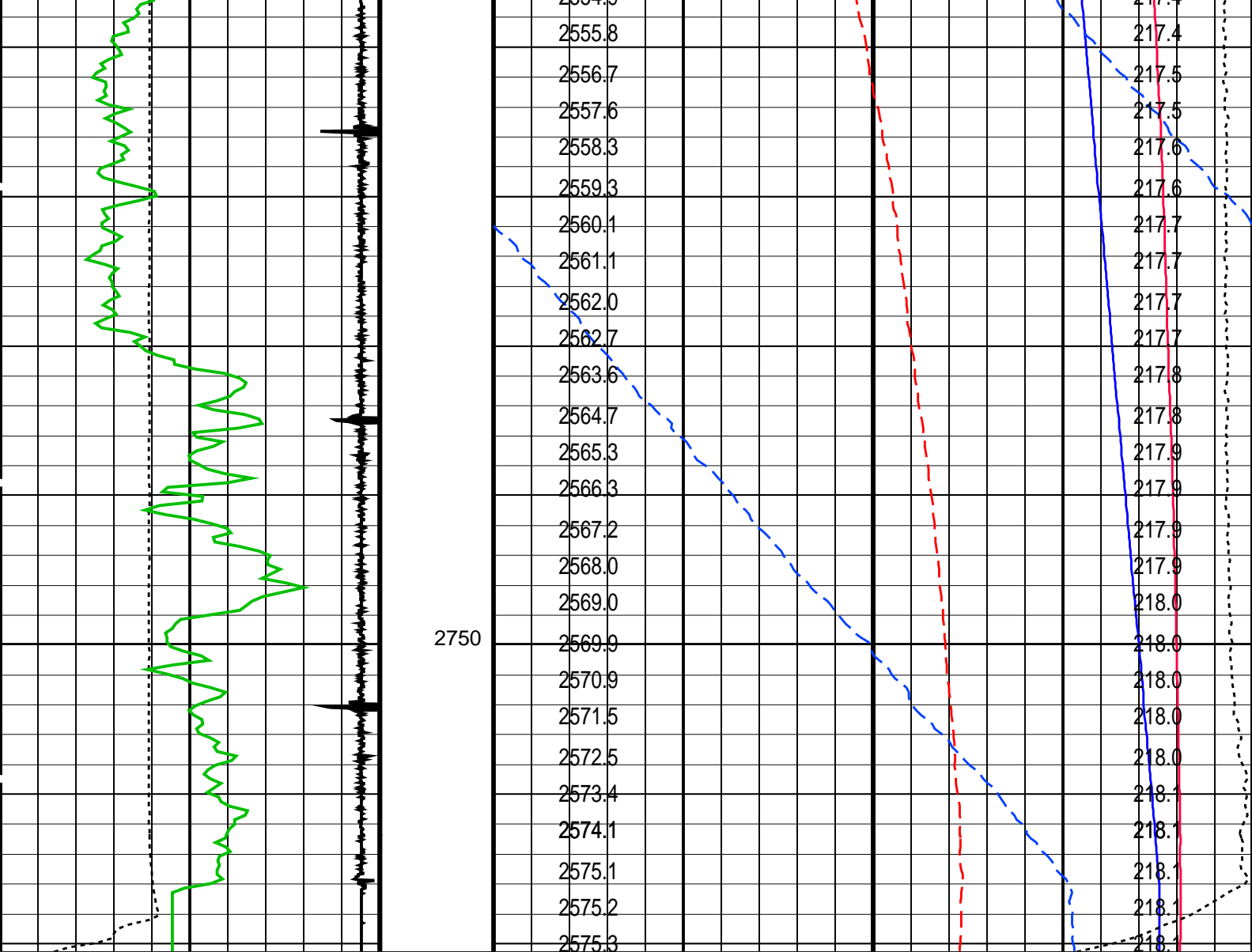
MWP_GUN15C0-309MWPT-CA15C0-309

MWGT-AA15C0-309

PIP SUMMARY

Time Mark Every 60 S





<div>Cable Speed (CS)</div> <div>05000</div> <div>(F/HR)</div>		<div>Firing Sequence State (FSS)</div> <div>01024</div> <div>(----</div>	<div>Strain Gauge Pressure (SGP)</div> <div>24002600</div> <div>(PSIA)</div>		
<div>Casing Collar Locator (CCL)</div> <div>-191</div> <div>(----</div>			<div>Strain Gauge Pressure (SGP)</div> <div>020</div> <div>(PSIA)</div>		
<div>Gamma Ray (GR)</div> <div>0150</div> <div>(GAPI)</div>			<div>Temperature (TEMP_MWPT)</div> <div>05</div> <div>(DEGF)</div>		
			<div>Pressure (SGP)</div> <div>(PSIA)</div>		<div>Tension (TENS)</div> <div>02000</div> <div>(LBF)</div>
<div>Temperature (TEMP_MWPT)</div> <div>200220</div> <div>(DEGF)</div>				<div>Temperature</div> <div>(TEMP_MWPT)</div> <div>(DEGF)</div>	

Time Mark Every 60 S

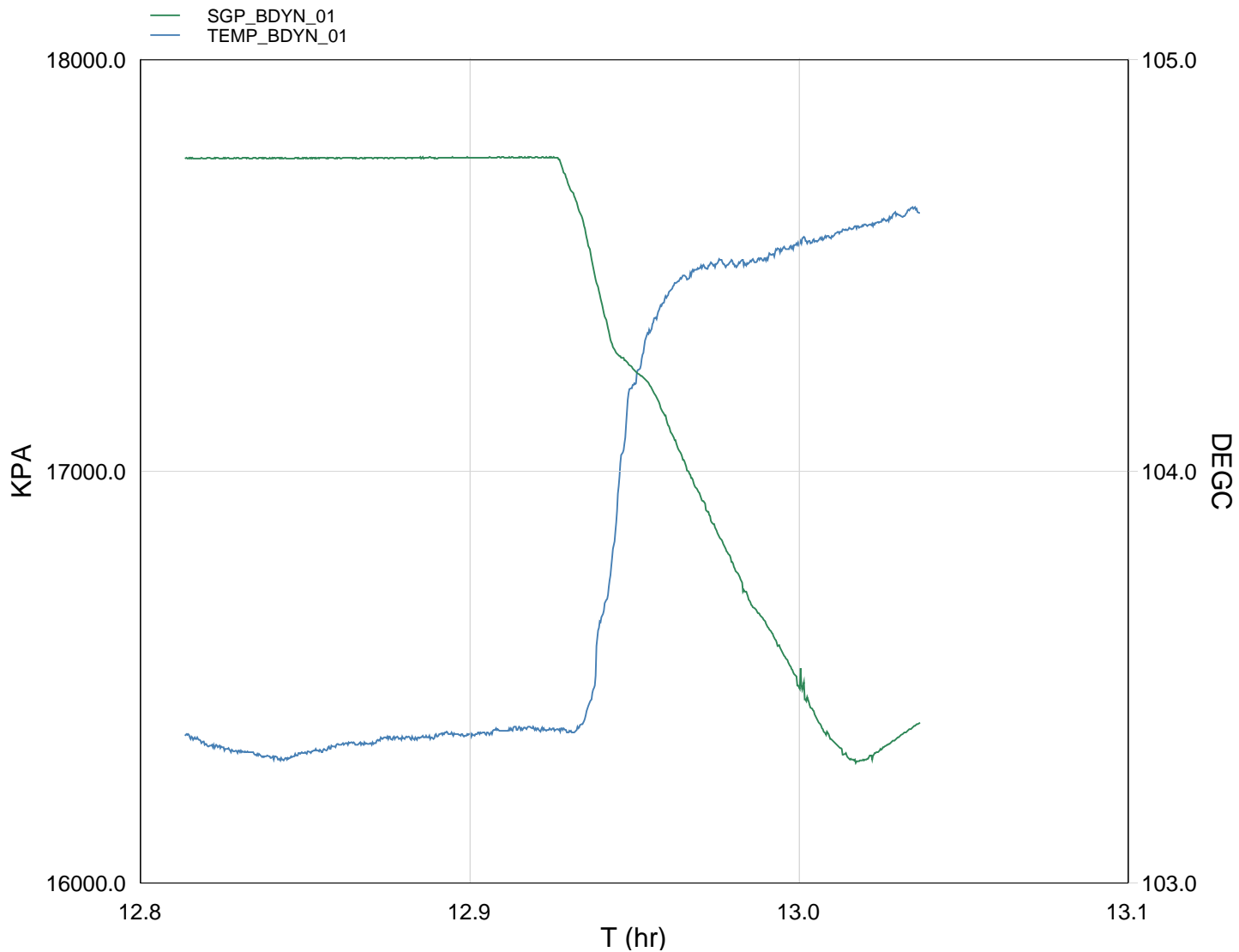
PIP SUMMARY

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



Draw Down Before Perforation
(2760 MDKB)

MAXIS Field Log



TIME SGPA_SL TEMP_MWPT_SL

5220.0	2579.2591	218.0039
5250.0	2575.8888	218.0225
5280.0	2576.0779	217.9889
5310.0	2576.0553	217.9620
5340.0	2575.9368	217.9391
5370.0	2575.9450	217.9701
5400.0	2576.0779	218.0069
5430.0	2576.0221	218.0099
5460.0	2576.1081	218.0350
5490.0	2576.3636	218.0387
5520.0	2576.1344	218.0562
5550.0	2576.1864	218.0505
5580.0	2576.2836	218.0654
5610.0	2576.2986	218.0811
5640.0	2576.1974	218.0723
5670.0	2550.9288	218.1227
5700.0	2510.4092	218.8272
5730.0	2499.5957	219.6496
5760.0	2482.6899	219.9649
5790.0	2460.7914	220.0827
5820.0	2440.7833	220.1164
5850.0	2420.0434	220.1152
5880.0	2405.2837	220.1703
5910.0	2385.4287	220.2175
5940.0	2371.0889	220.2305
5970.0	2363.5835	220.2656
6000.0	2369.3258	220.2977
6030.0	2375.9497	220.3504

Schlumberger

Dummy Plug

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: A-7

Input DLIS Files

DEFAULT	PSP_024LUP	FN:17	PRODUCER	07-Jul-2007 17:29	2781.0 M	2057.6 M
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Output DLIS Files

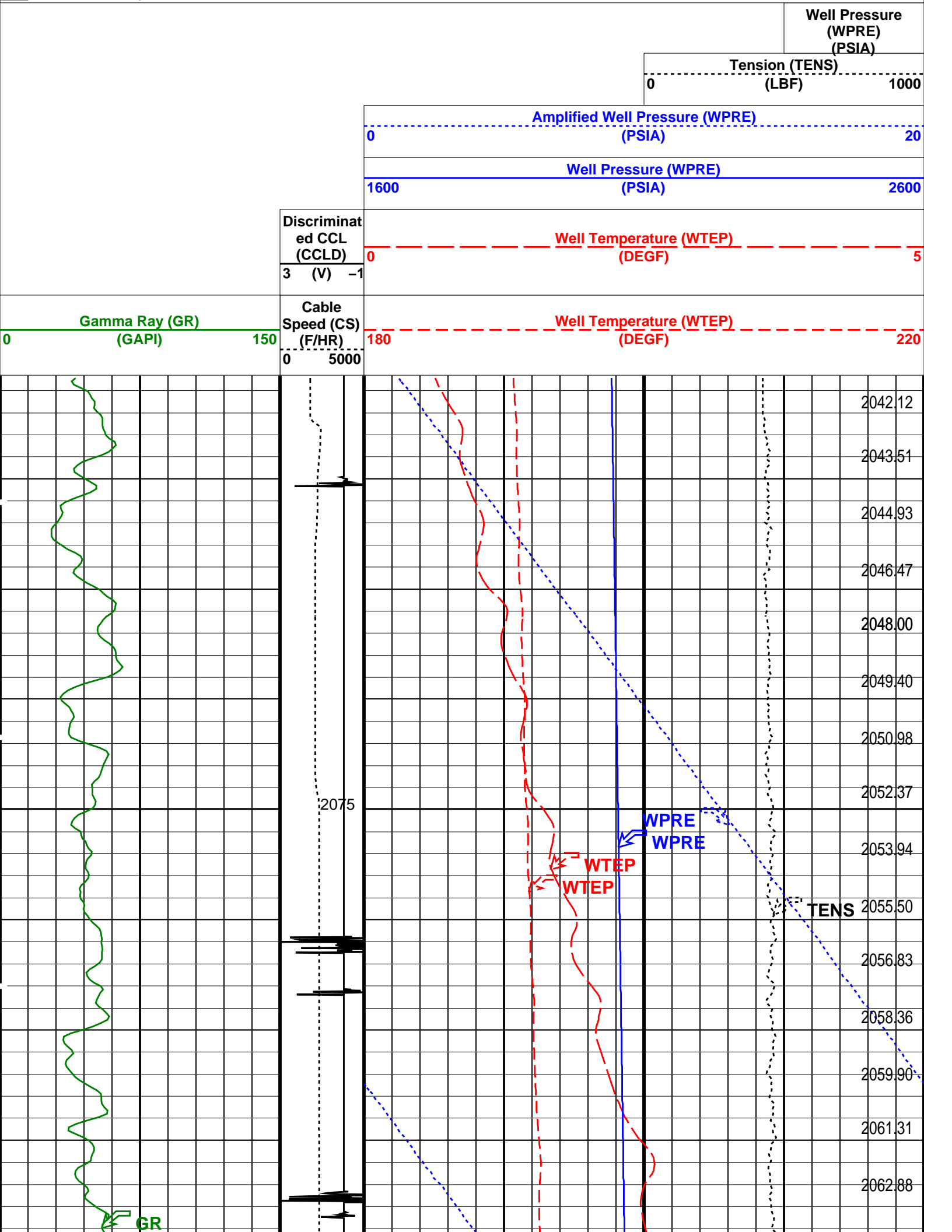
DEFAULT	PSP_036PUP	FN:29	PRODUCER	08-Jul-2007 07:25	2778.1 M	2055.3 M
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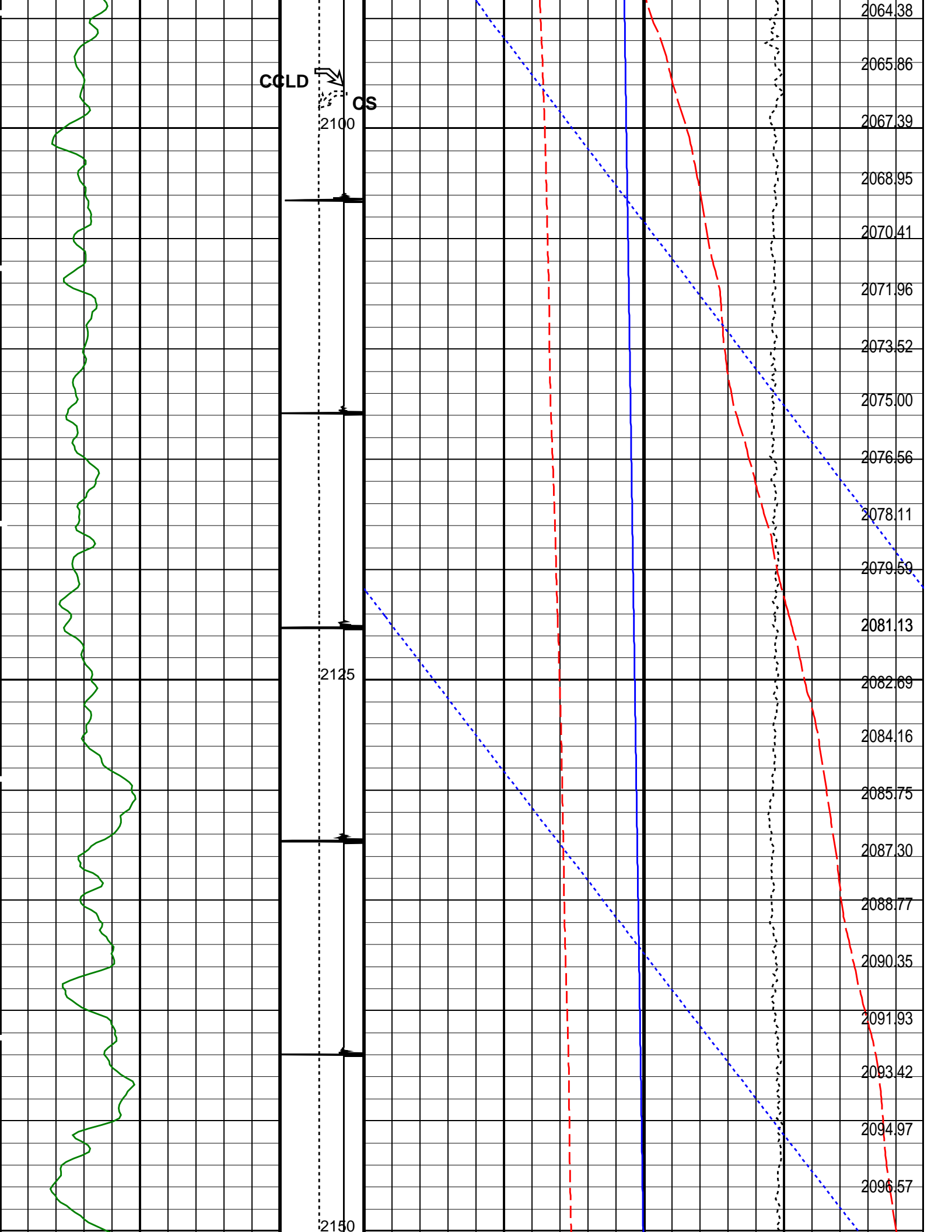
OP System Version: 15C0-309
MCM

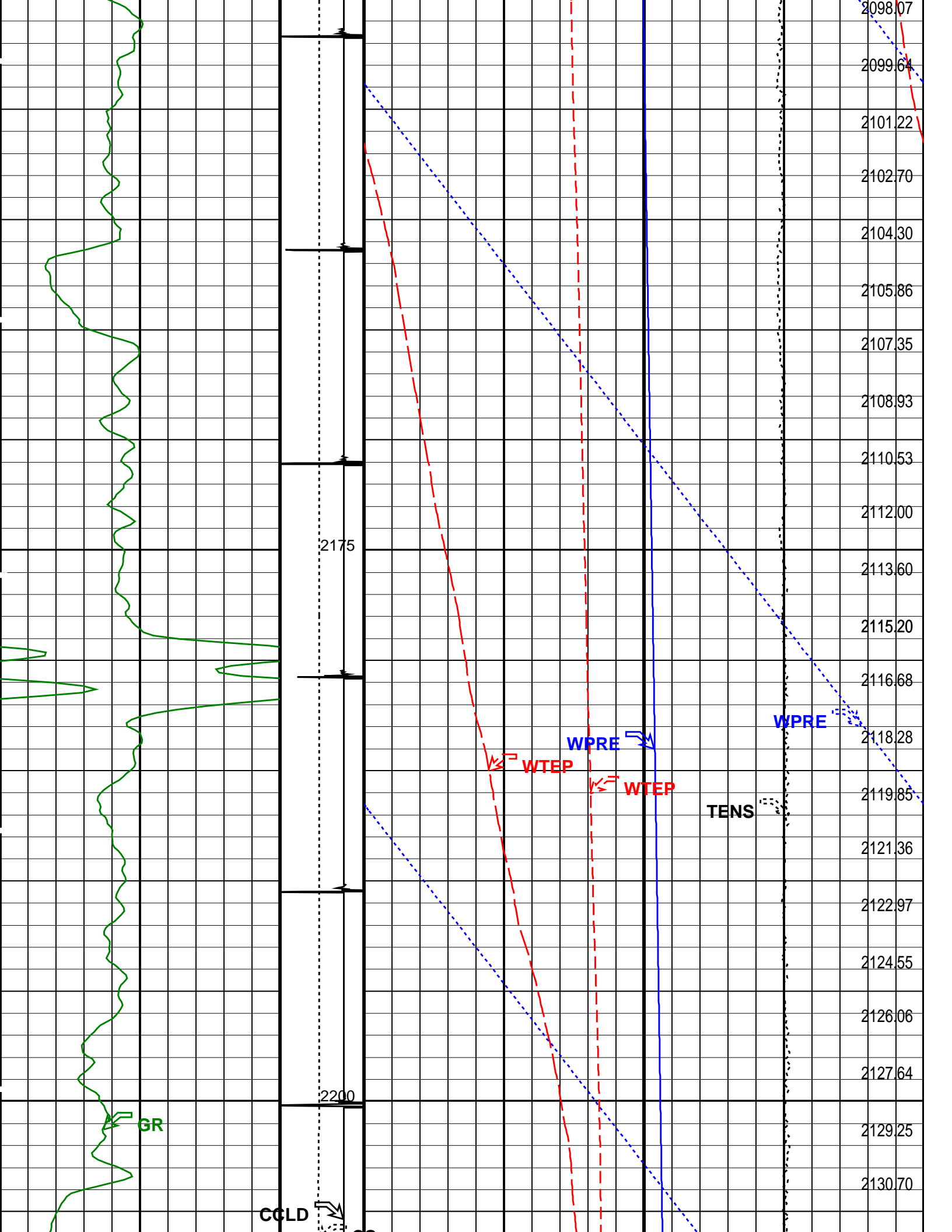
PSPT-B 15C0-309

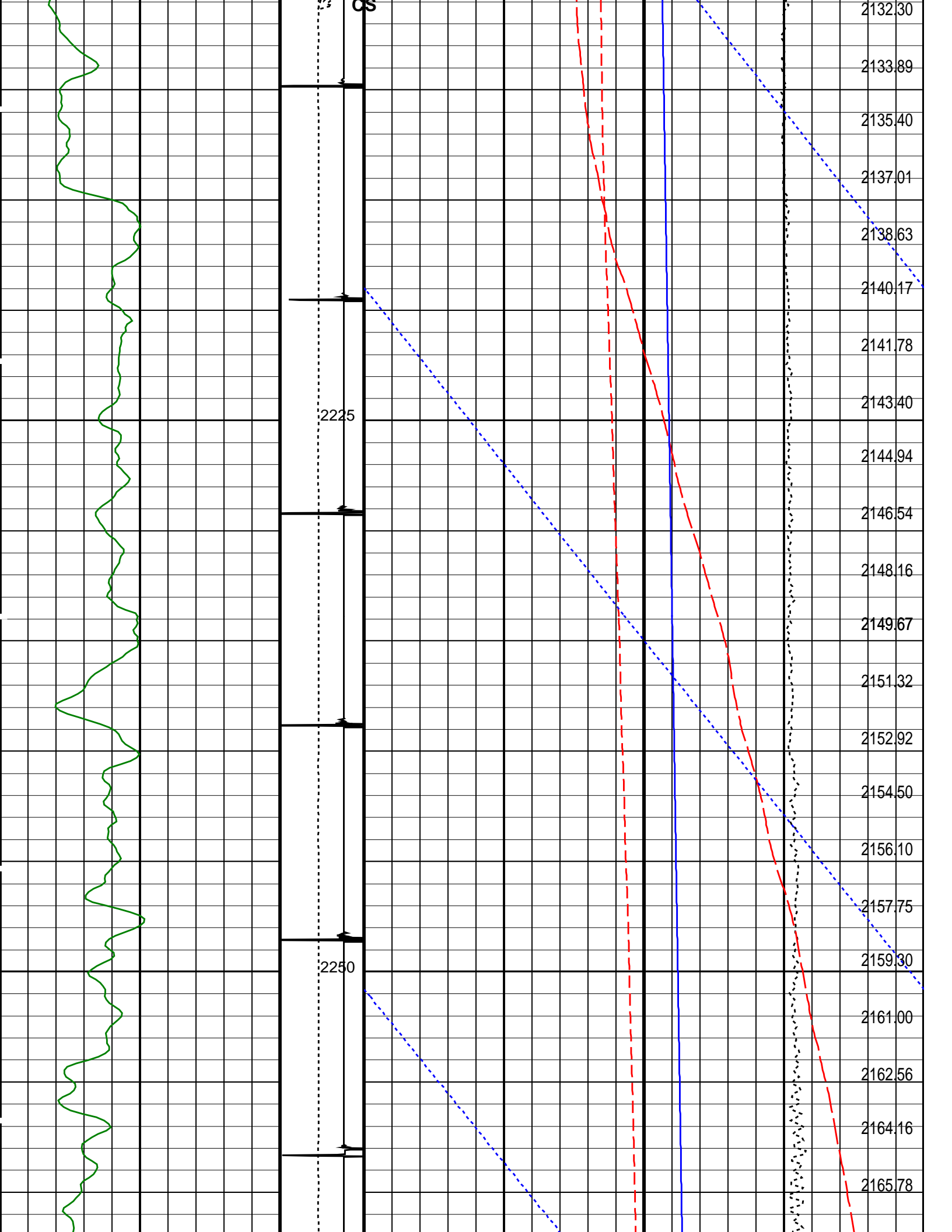
PIP SUMMARY

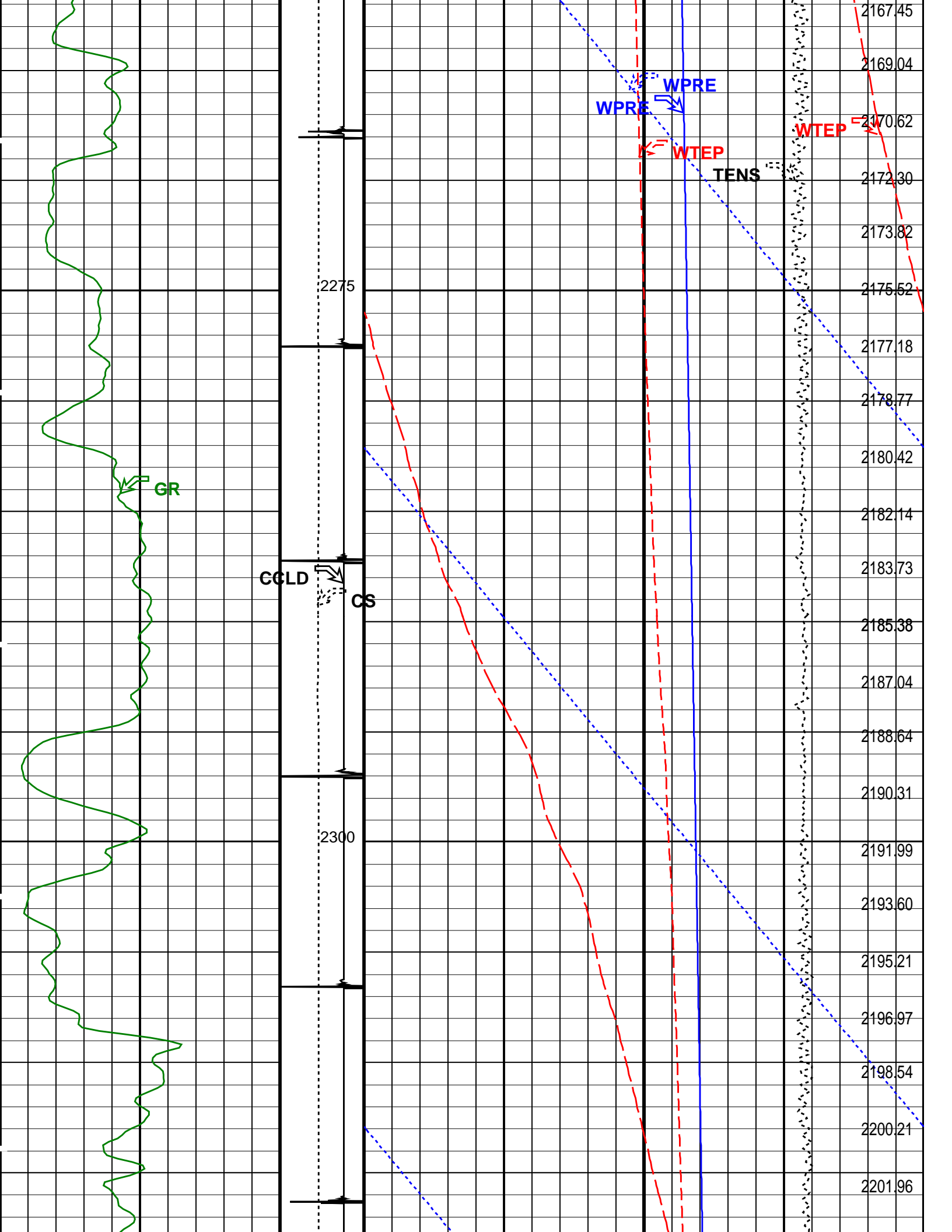
Time Mark Every 60 S

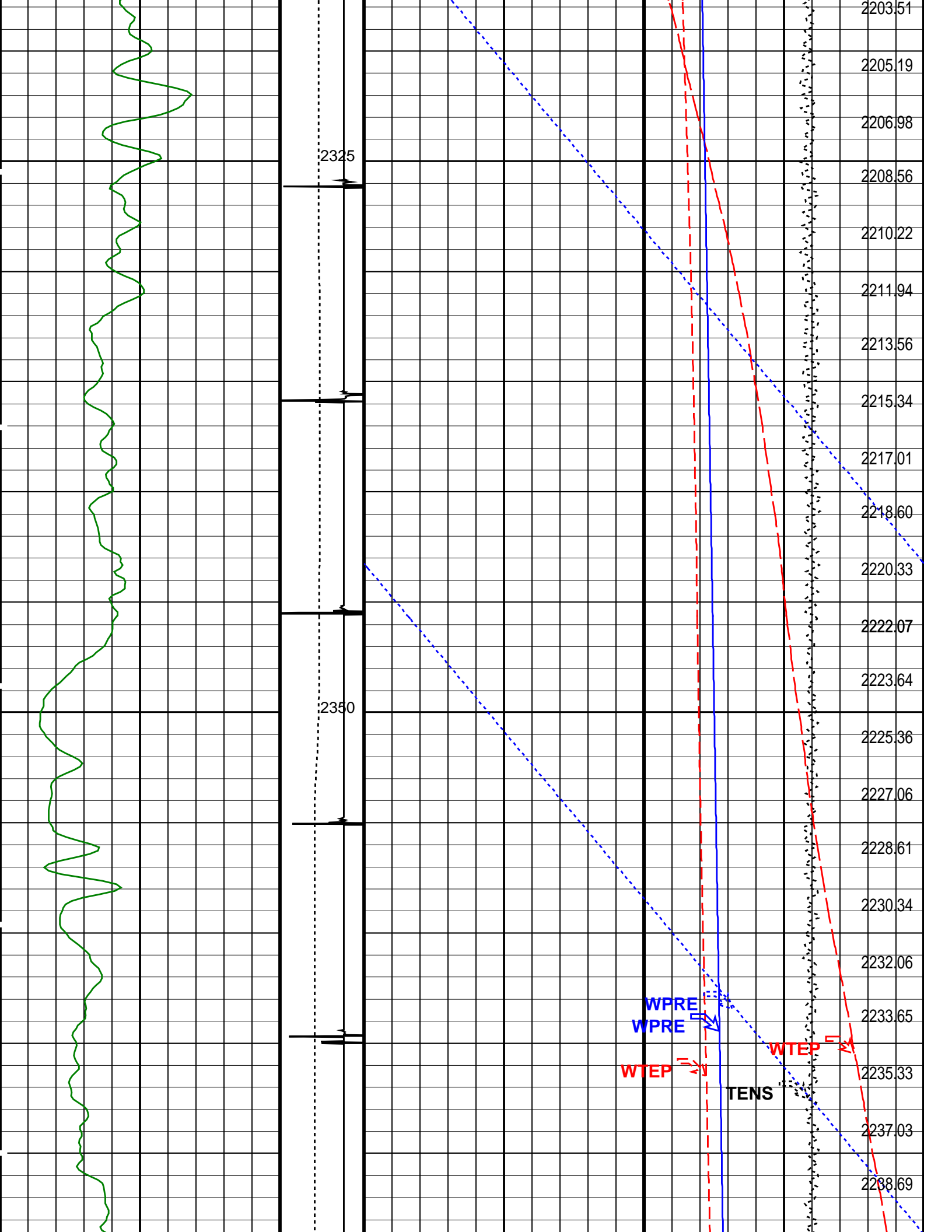


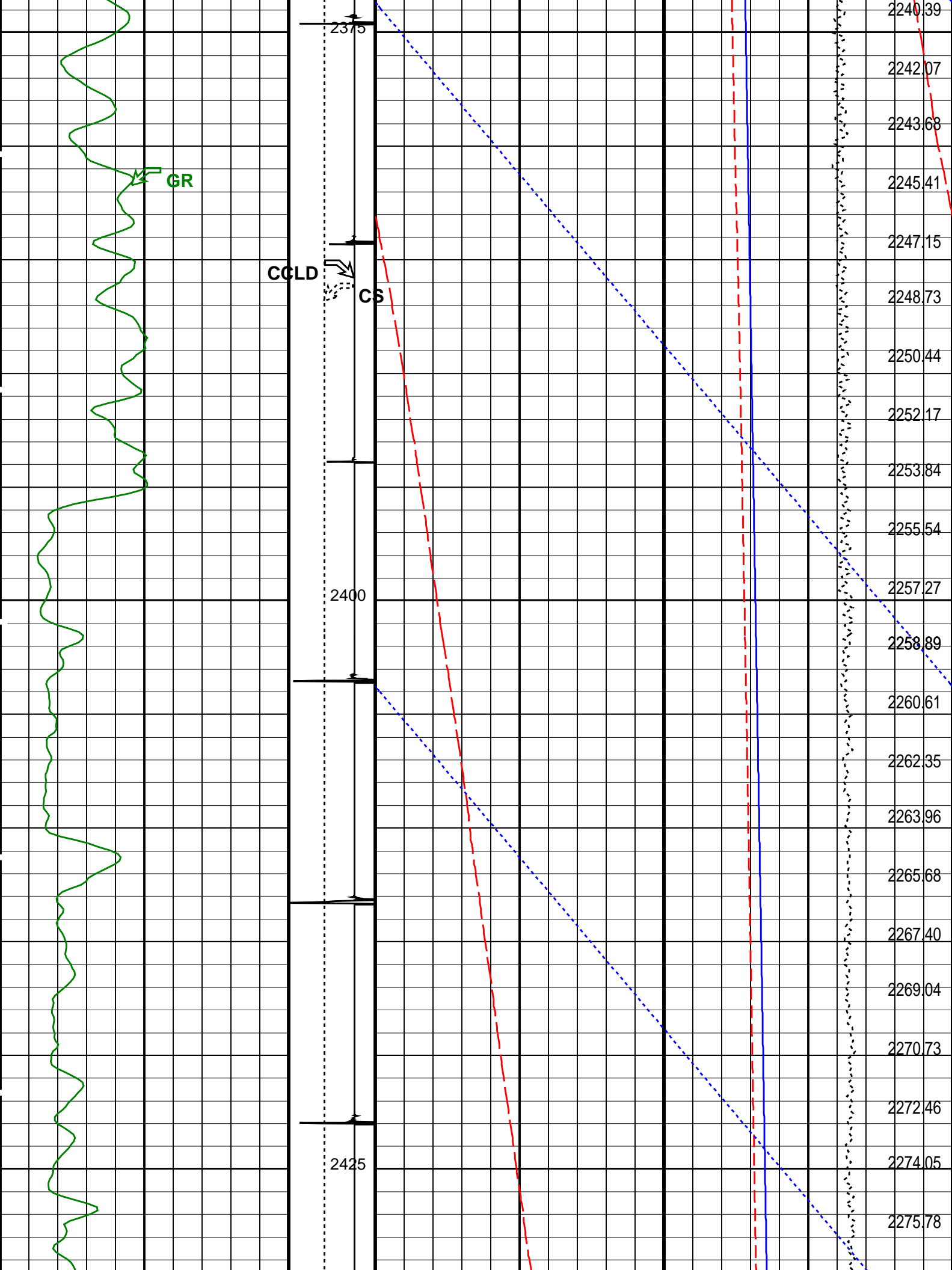


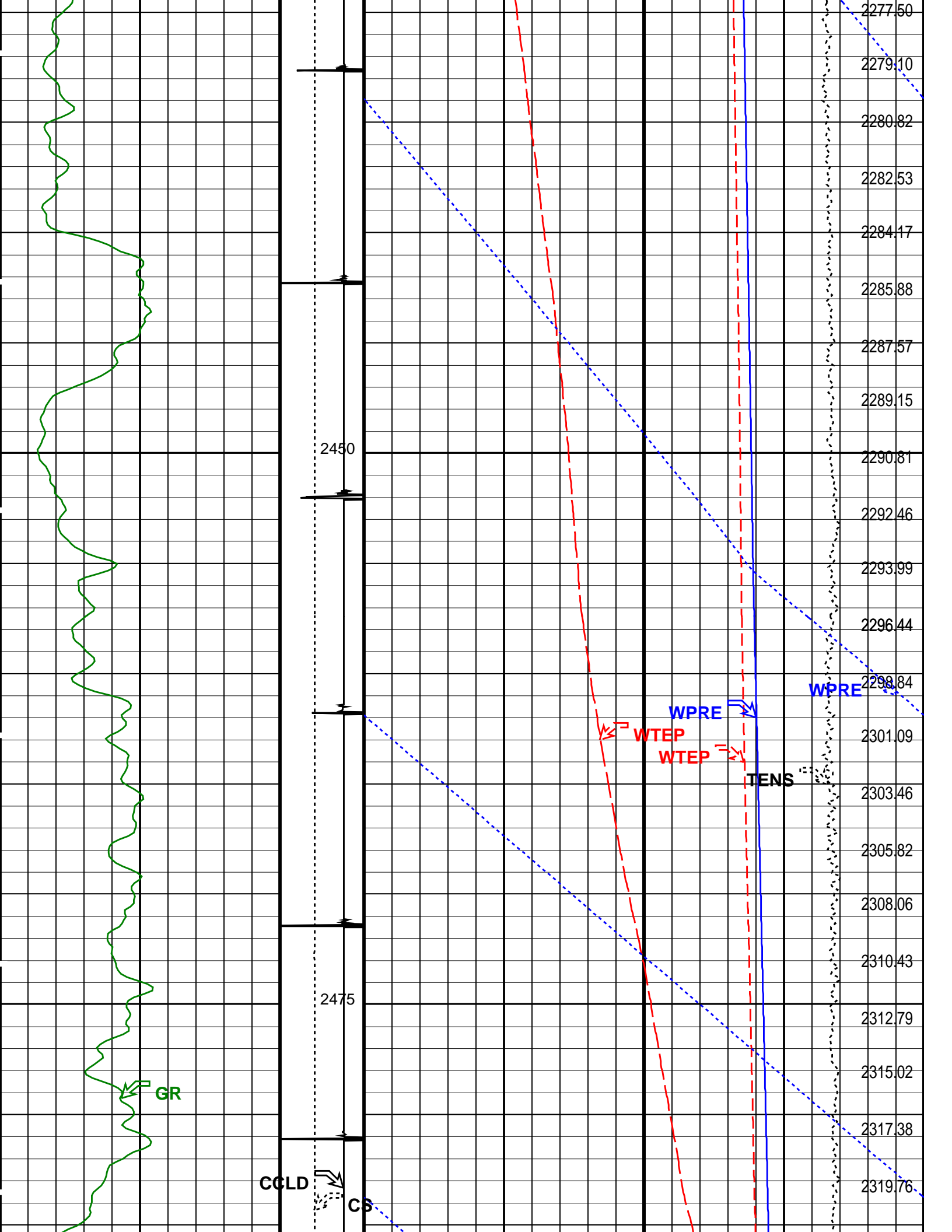


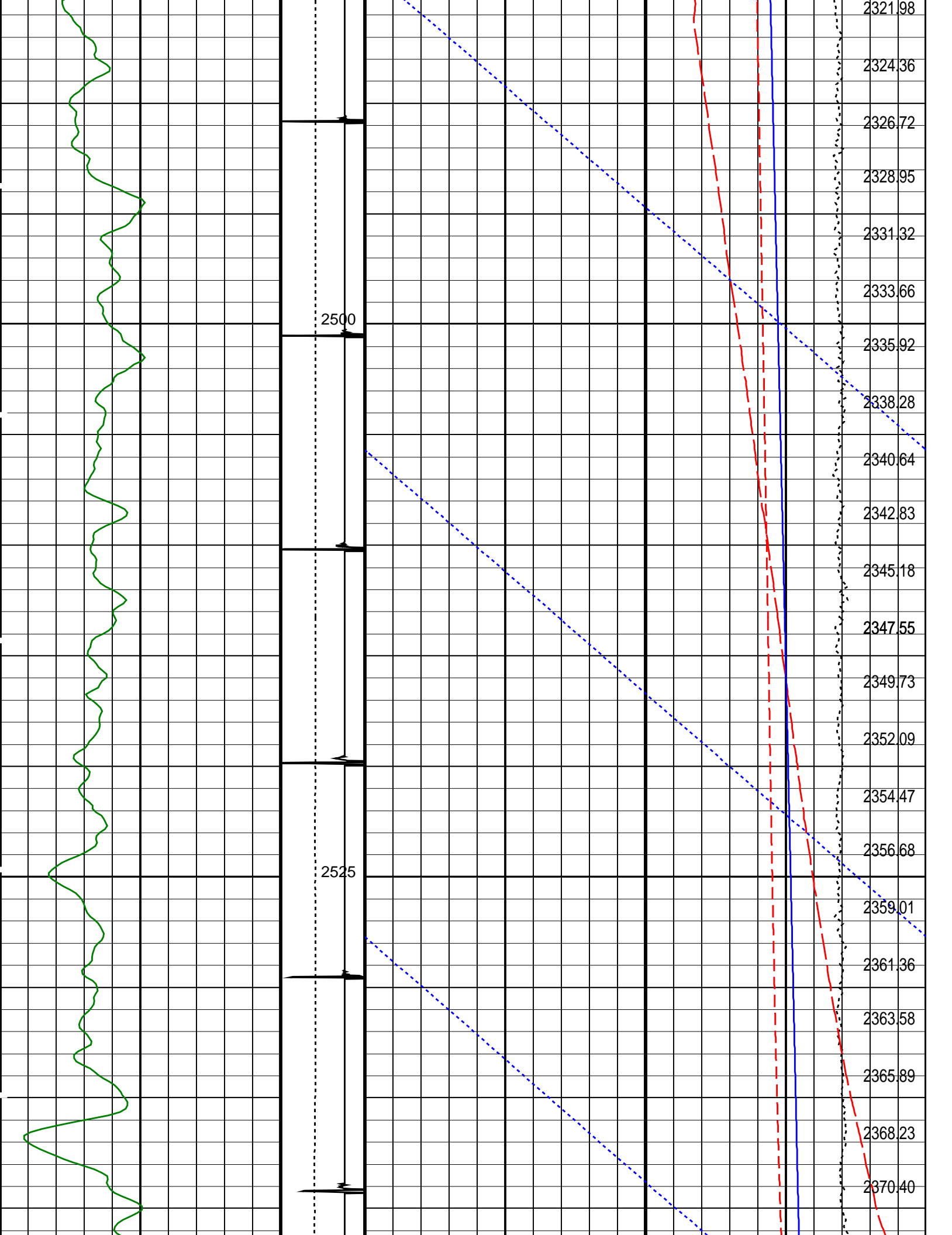


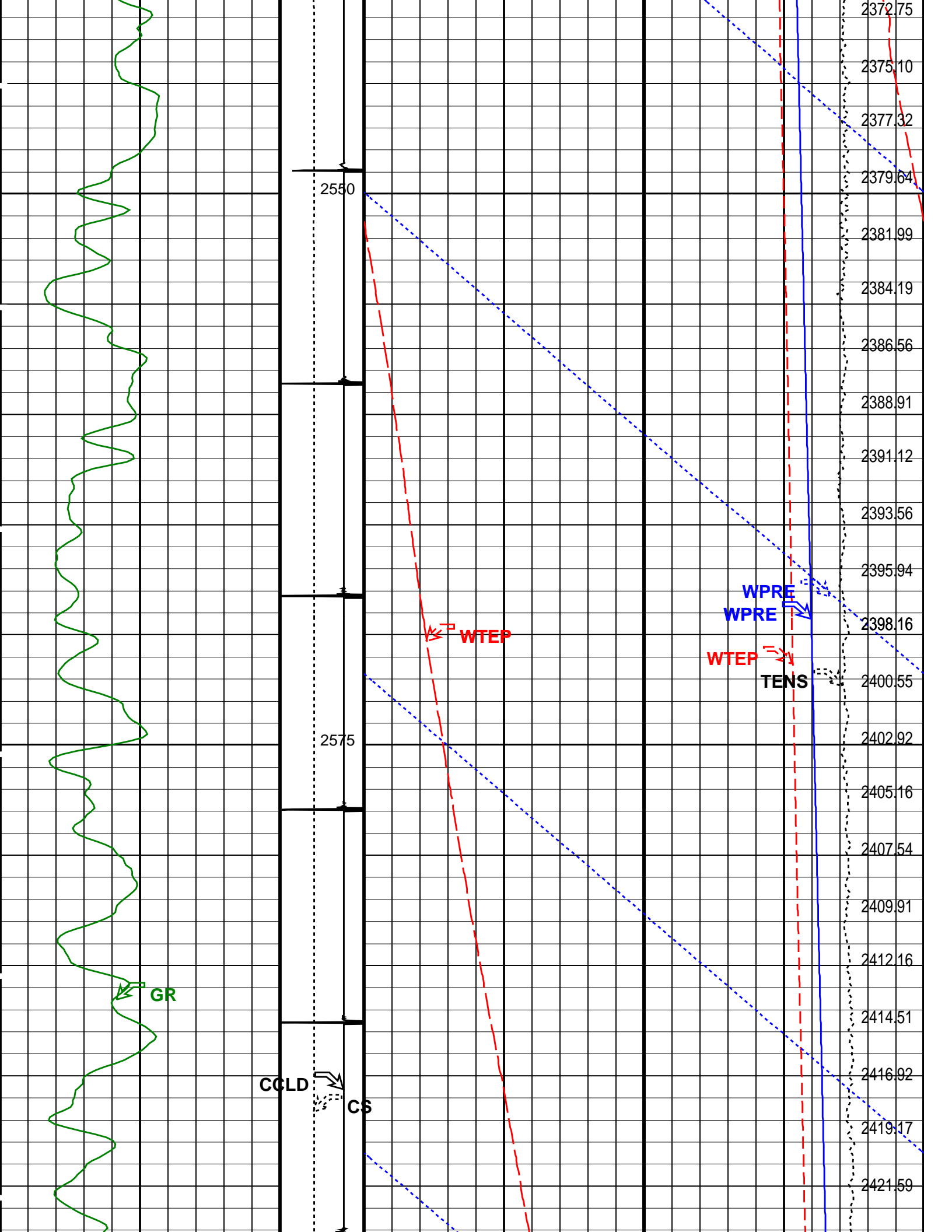


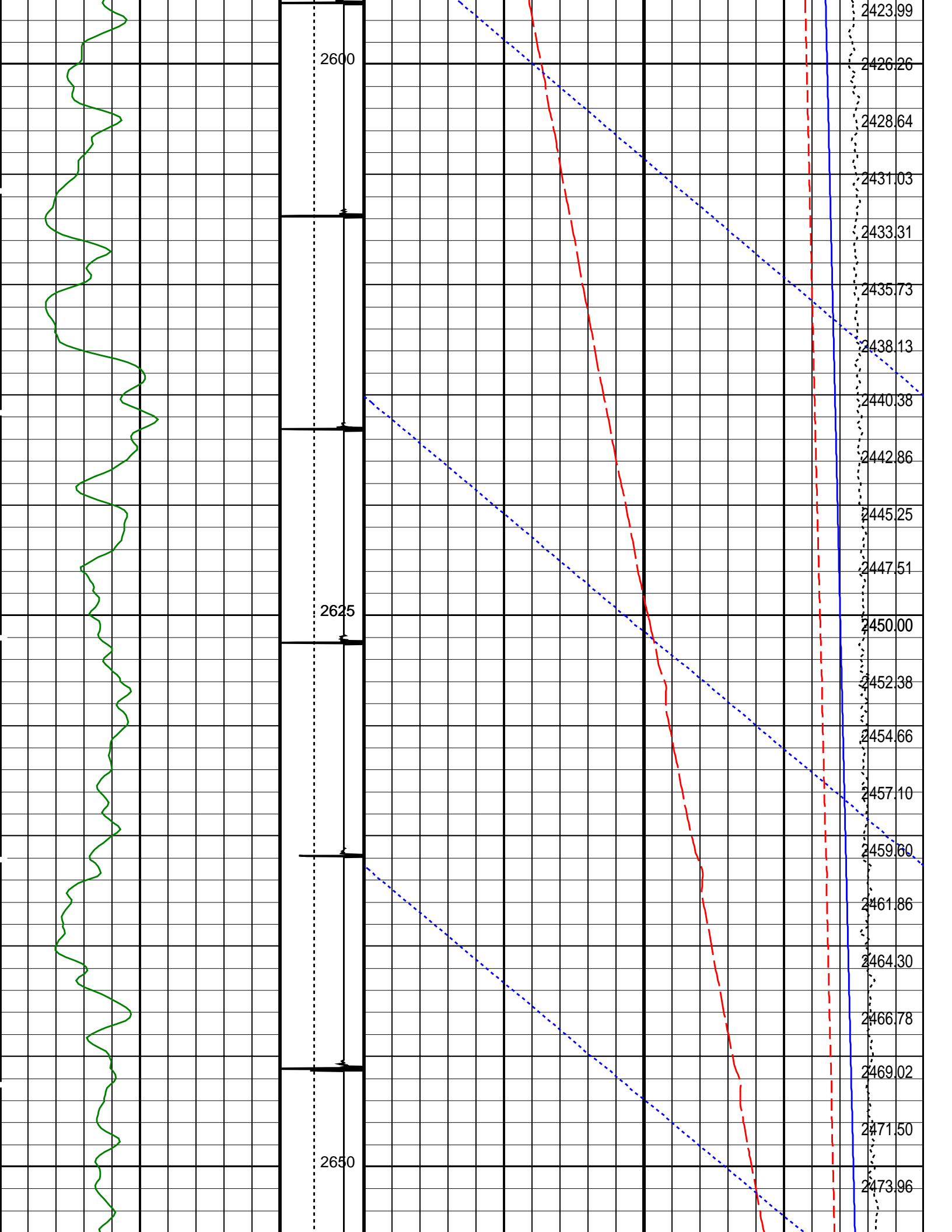


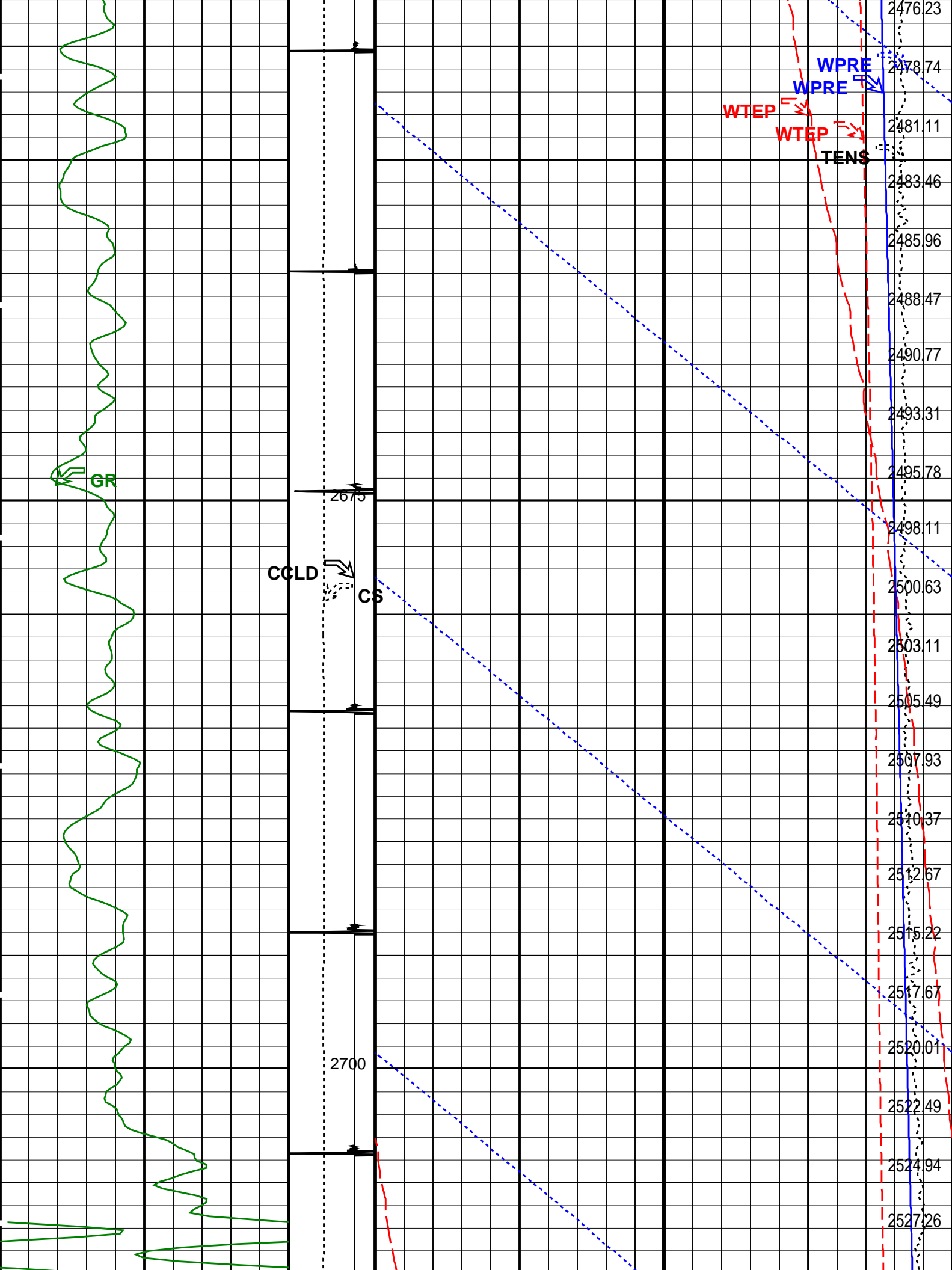


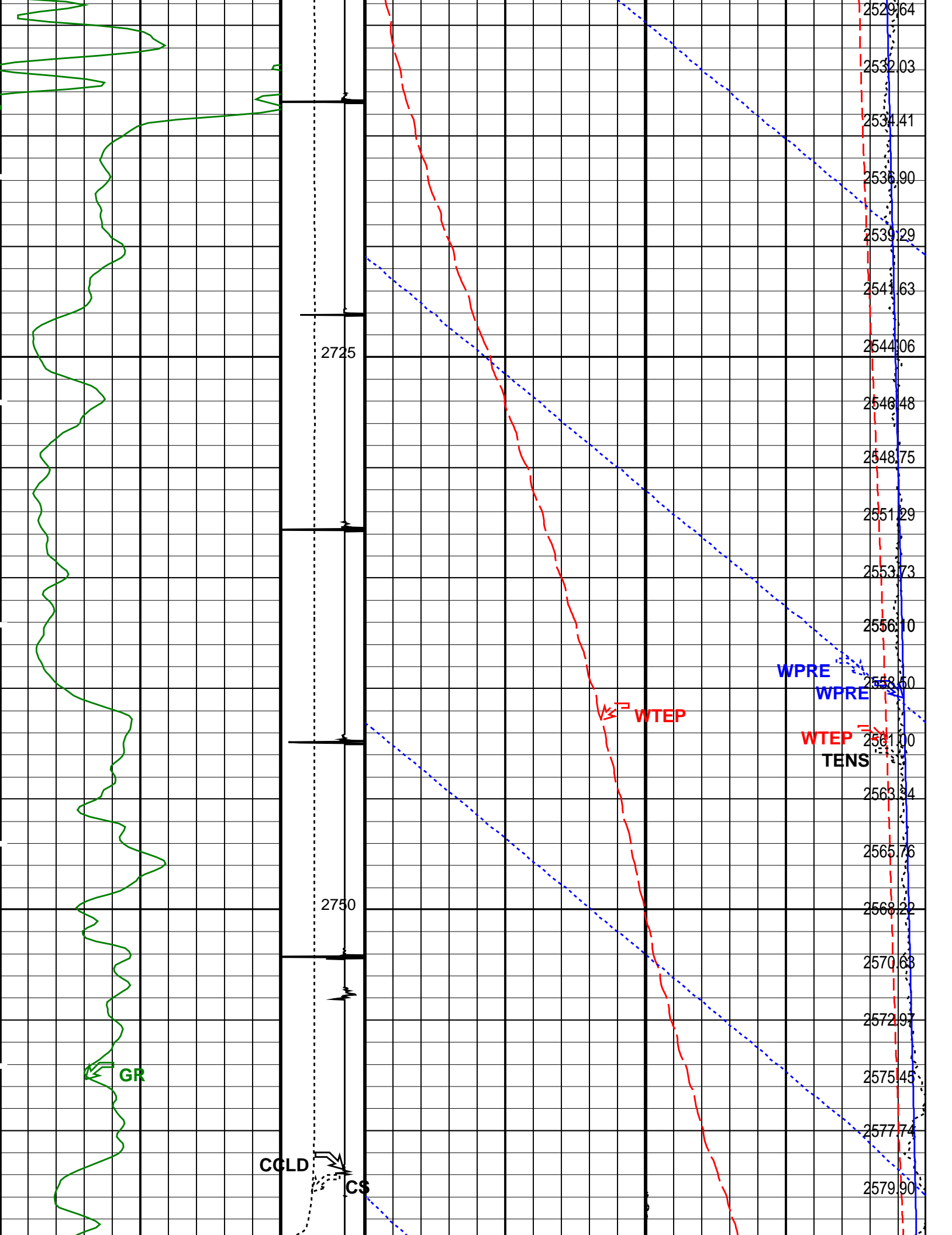


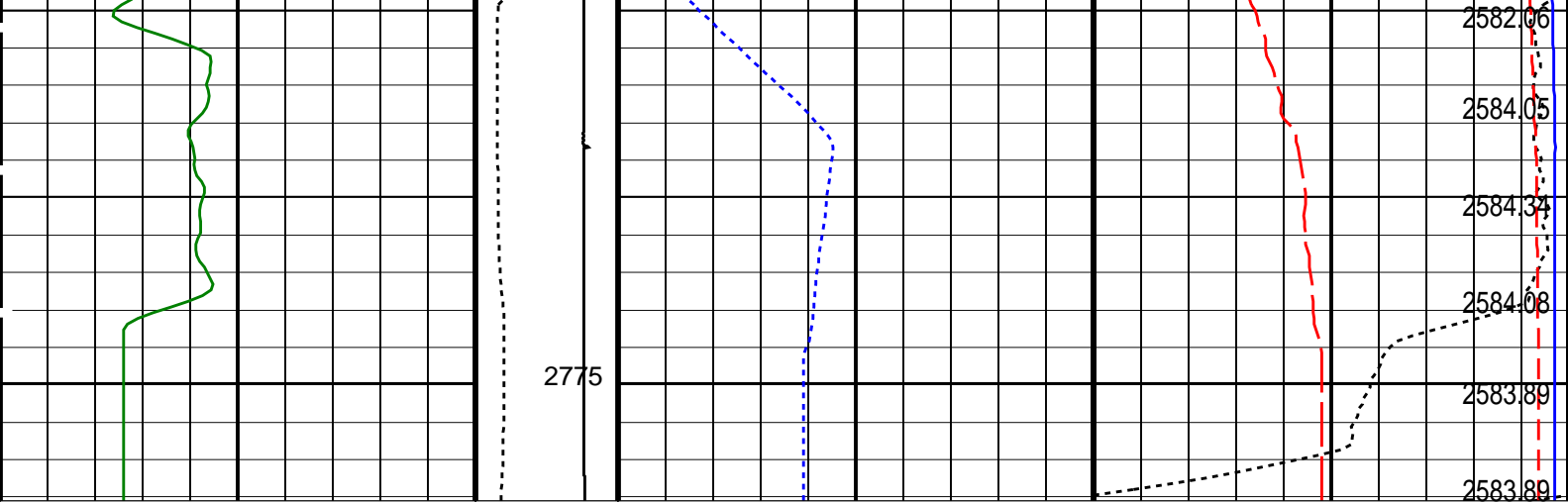












Gamma Ray (GR) (GAPI)		0	150
Cable Speed (CS) (F/HR)		0	5000
Well Temperature (WTEP) (DEGF)		180	220
Discriminated CCL (CCLD)		0	5
Well Temperature (WTEP) (DEGF)		0	5
Well Pressure (WPRE) (PSIA)		1600	2600
Amplified Well Pressure (WPRE) (PSIA)		0	20
Tension (TENS) (LBF)		0	1000
Well Pressure (WPRE) (PSIA)			

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 08-Jul-2007 07:25

OP System Version: 15C0-309
MCM

PSPT-B 15C0-309

Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback Playback Processing	-2.9 M NORMAL

Input DLIS Files					
DEFAULT	PSP_024LUP	FN:17	PRODUCER	07-Jul-2007 17:29	2781.0 M 2057.6 M
Output DLIS Files					
DEFAULT	PSP_036PUP	FN:29	PRODUCER	08-Jul-2007 07:25	

Rig: **Crane/Prod 2**

Country: **Australia**

MWPT 2 1/8" Enerjet Perforation

4 1/2" Posiset Plug