

Company: Esso Australia Pty Ltd.

Well: A-25a
Field: Flounder
Rig: Crane

Country: Australia

2-1/8" Phased Powerjet MWPT
Perforation Record
7-5/8" Posiset Plug Setting Record

Rig: Crane

Field: Flounder

Location: Gippsland

Well: A-25a

Company: Esso Australia Pty Ltd.

LOCATION

Gippsland

Basin

Bass Strait

Permanent Datum: _____

Log Measured From: _____

Drilling Measured From: _____

Elev.: _____

G.L. _____

D.F. _____

Elev.: _____

40.8 m

above Perm. Datum

State: Victoria

Max. Well Deviation
59.15 deg

Longitude
148° 06' 15.10"E

Latitude
38° 18' 45.24"S

Logging Date	1-Feb-2008		
Run Number	1 through 5		
Depth Driller	3935 m		
Schlumberger Depth	3529 m		
Bottom Log Interval	2500 m		
Top Log Interval	7808.4 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level	2084 m		
BIT/CASING/TUBING STRING			
Bit Size	9.875 in		
From	816 m		
To	3935 m		
Casing/Tubing Size	7.625 in		
Weight	29.7 lbm/ft		
Grade	L-80		
From	19.56 m		
To	3903 m		
Maximum Recorded Temperatures	229 degF		
Logger On Bottom	Time	1-Feb-2008	11:00
Unit Number	Location	889	Prod 4 / AUSL
Recorded By	S Gilbert / C.Rowand		
Witnessed By	B White / J.D.		

PVT DATA					
Oil Density					
Water Salinity					
Gas Gravity					
Bo					
Bw					
1/Bg					
Bubble Point Pressure					
Bubble Point Temperature					
Solution GOR					
Maximum Deviation		59.15 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					

DEPTH SUMMARY LISTING

Date Created: 1-FEB-2008 5:13:20

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:	24425
Calibration Date:	04-Jan-2007	Calibration Date:	30-Jan-2008	Length:	5269.99 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1174	Conveyance Method: Wireline Rig Type: Offshore_Fixed	
Calibration Cable Type:	2-32ZT	Calibration Gain:	0.91		
Wheel Correction 1:	-2	Calibration Offset:	220.00		
Wheel Correction 2:	-4				

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	ExxonMobil Petrophysical Analysis
Reference Log Run Number:	
Reference Log Date:	30-Jan-2004
Subsequent Trip Down Log Correction:	

Depth Control Remarks

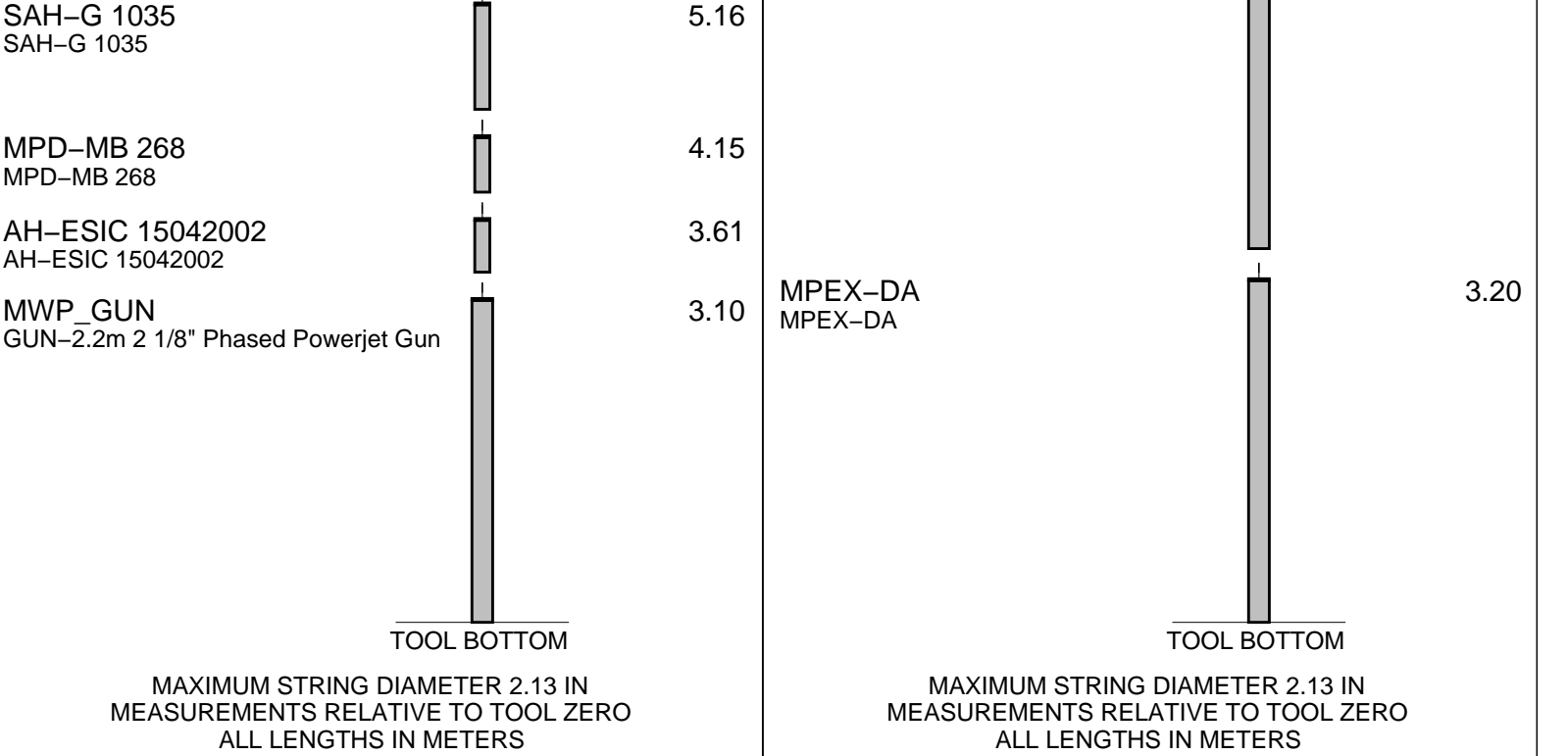
1. Log referenced to RST Sigma Log of 25-Aug-2007.
2. High GR (NORM) activation observed, resulting correlating to the CCL's
3. Primary CCL correlation was made over the EOT
4.
5. Rigged up utilising the MAST
6.

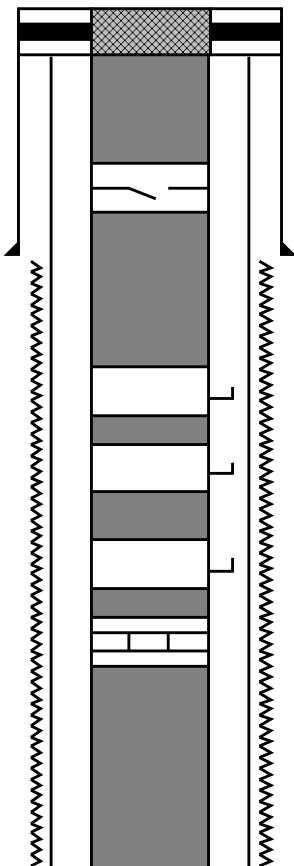
DISCLAIMER

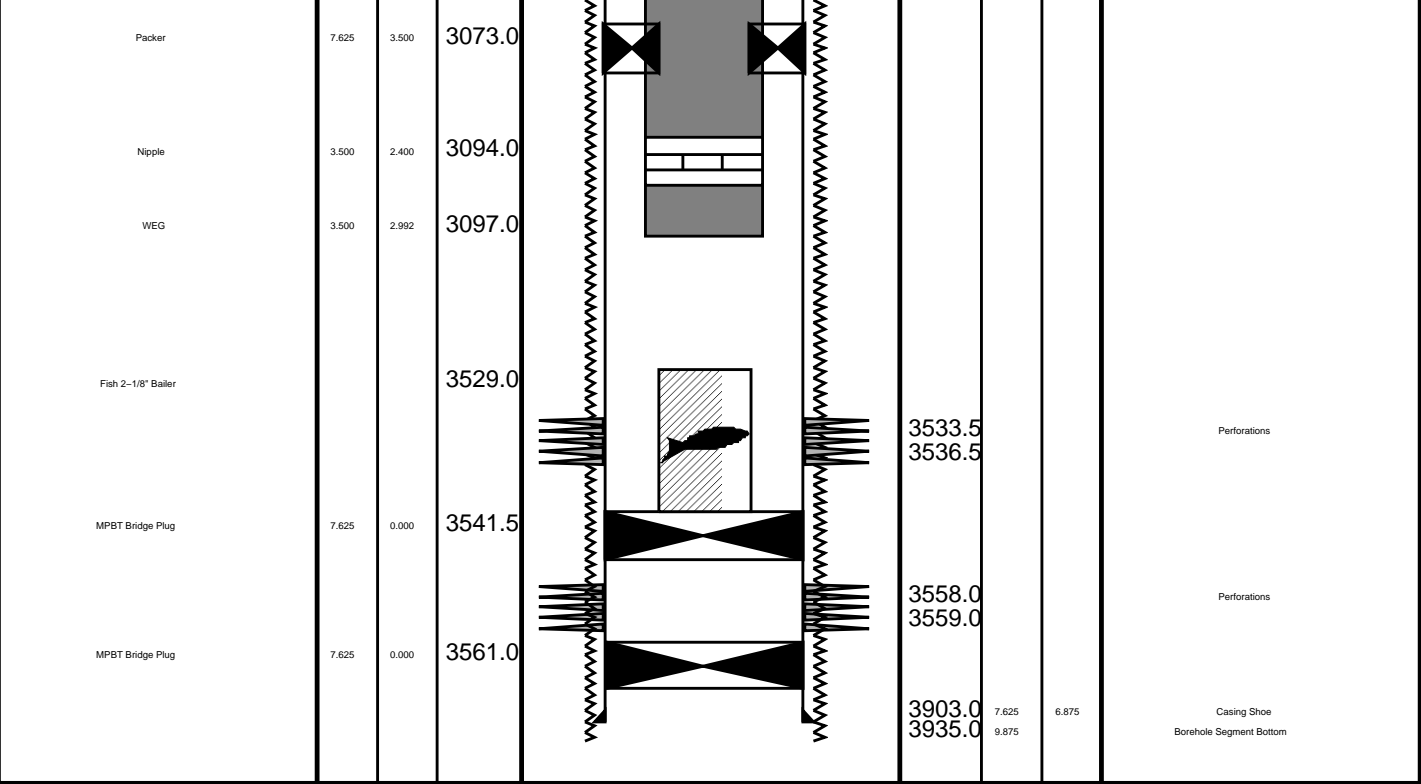
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1
OS1: None
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil Solar Composite Log supplied with logging program.
Objectives: Perforate the well over the interval 3525m 3527.5m MDKB using 2-1/8" 6 SPF, 45 deg phased Powerjet gun with MWPT.
Set 7-5/8" posiset plug with top of seal at 3528.5m MDKB then dump approximately 1m of cement on top.
GOC @ 2084 m MDKB, OWC @ 2589 m MDKB.
Perforation interval: 3525m to 3527.5m MDKB.
CCL to top shot = 4.0m
CCL Stop Depth = 3521 m MDKB
Reference shot GRIT: 2000-10-5 GRIP: 2000-50-01



Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	7.625	3.500	19.0		19.0	10.750	6.875	Casing String
Tubing	3.500	2.992				7.625		Casing String
SSSV	3.500	2.750	449.0		786.0	10.750		Casing Shoe
					816.0	9.875		9-7/8" Bit Size
Side Pocket Mandrel	3.500	2.800	1043.0					
Side Pocket Mandrel	3.500	2.810	1786.0					
Side Pocket Mandrel	3.500	2.800	2084.0					
Nipple	3.500	2.750	2100.0					



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Log Pass (up)	1-Feb-2008 10:37	000:49	3534.0 – 3044.2	PSP_018LUP
Log Pass (up)	1-Feb-2008 16:30	000:21	3523.6 – 3467.4	PERFO_034LUP
Station Log	1-Feb-2008 16:31	000:13	3521.0 – 1.9	PERFO_035LTP
Log Pass (up)	1-Feb-2008 19:33	000:11	3529.0 – 3258.8	PERFO_042LUP
Log Pass (up)	1-Feb-2008 19:59	000:00	2588.4 – 2587.9	PERFO_042LUP
Log Pass (up)	2-Feb-2008 0:36	000:05	3130.9 – 3090.8	CCL_051LUP
Log Pass (up)	2-Feb-2008 1:03	000:05	3522.6 – 3481.9	CCL_054LUP
Simulated Log	2-Feb-2008 1:21	000:32		CCL_057LUP
Log Pass (up)	2-Feb-2008 1:55	000:10	3521.2 – 3434.8	CCL_058LUP
Log Pass (up)	2-Feb-2008 5:46	000:20	3520.4 – 3434.0	PERFO_065LUP
Log Pass (up)	2-Feb-2008 8:47	000:11	3520.1 – 3445.0	PERFO_070LUP
Log Pass (up)	2-Feb-2008 11:42	000:10	3517.8 – 3447.4	PERFO_074LUP



Cement Dump Pass # 2

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-25a

Output DLIS Files

DEFAULT PERFO_074LUP FN:78 PRODUCER 02-Feb-2008 11:42 3517.8 M 3447.4 M

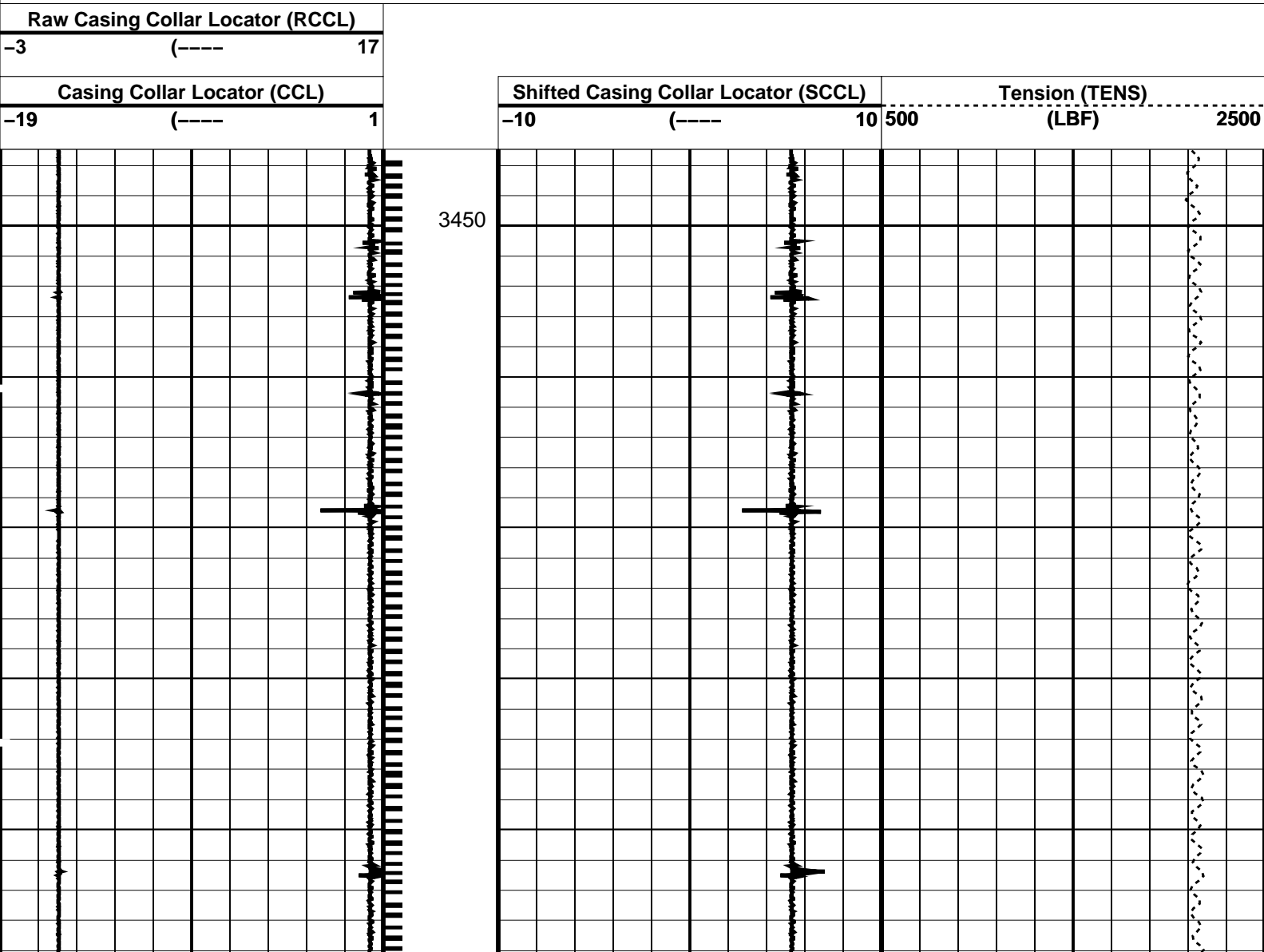
OP System Version: 15C0-309
MCM

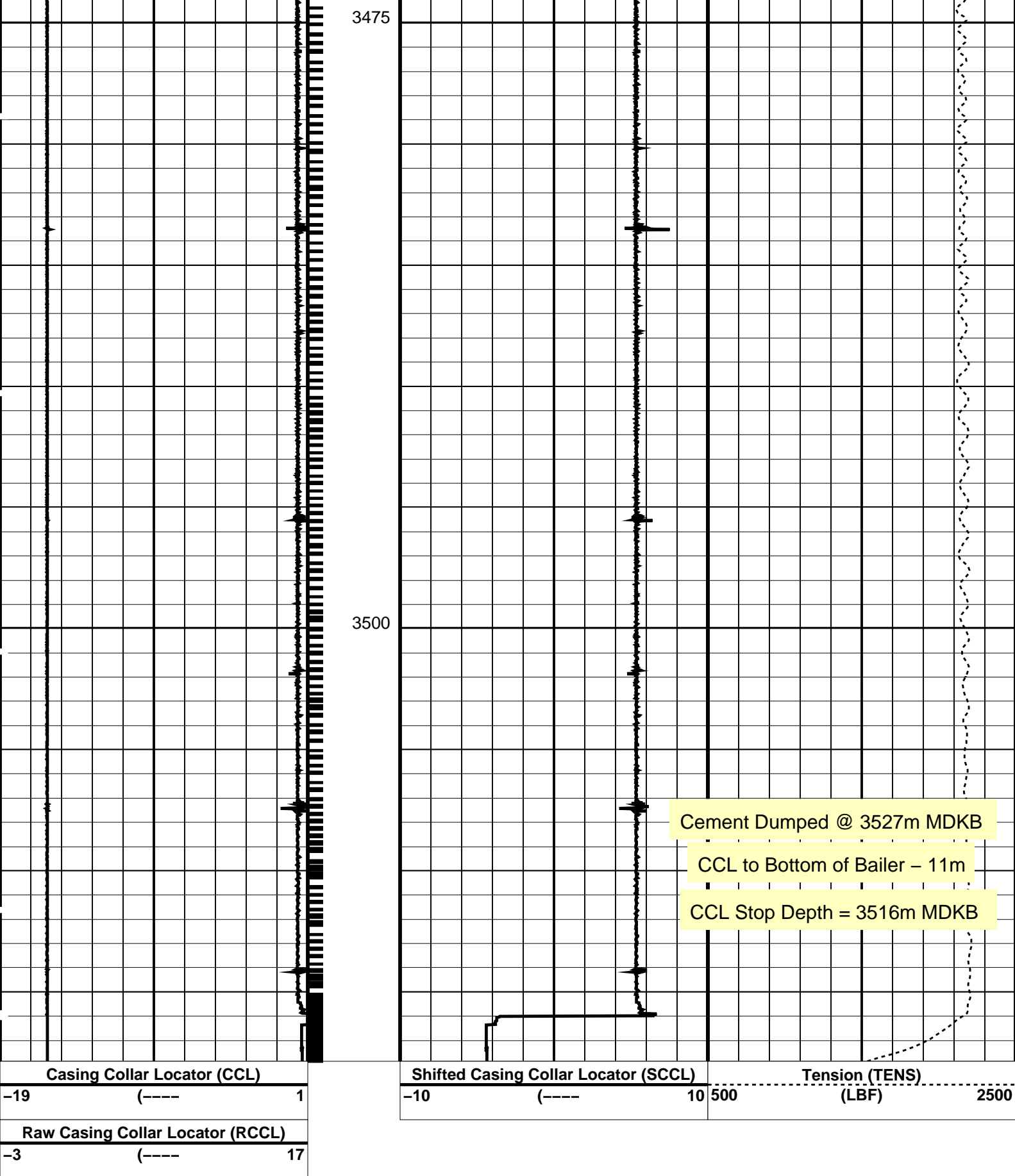
SHM_GUN 15C0-309 CCL-L 15C0-309

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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CCL-L: Casing Collar Locator		
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CCLD
CCLT

CCL reset delay
CCL Detection Level

12 IN
0.3 V

Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 02-Feb-2008 11:42

OP System Version: 15C0-309
MCM

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

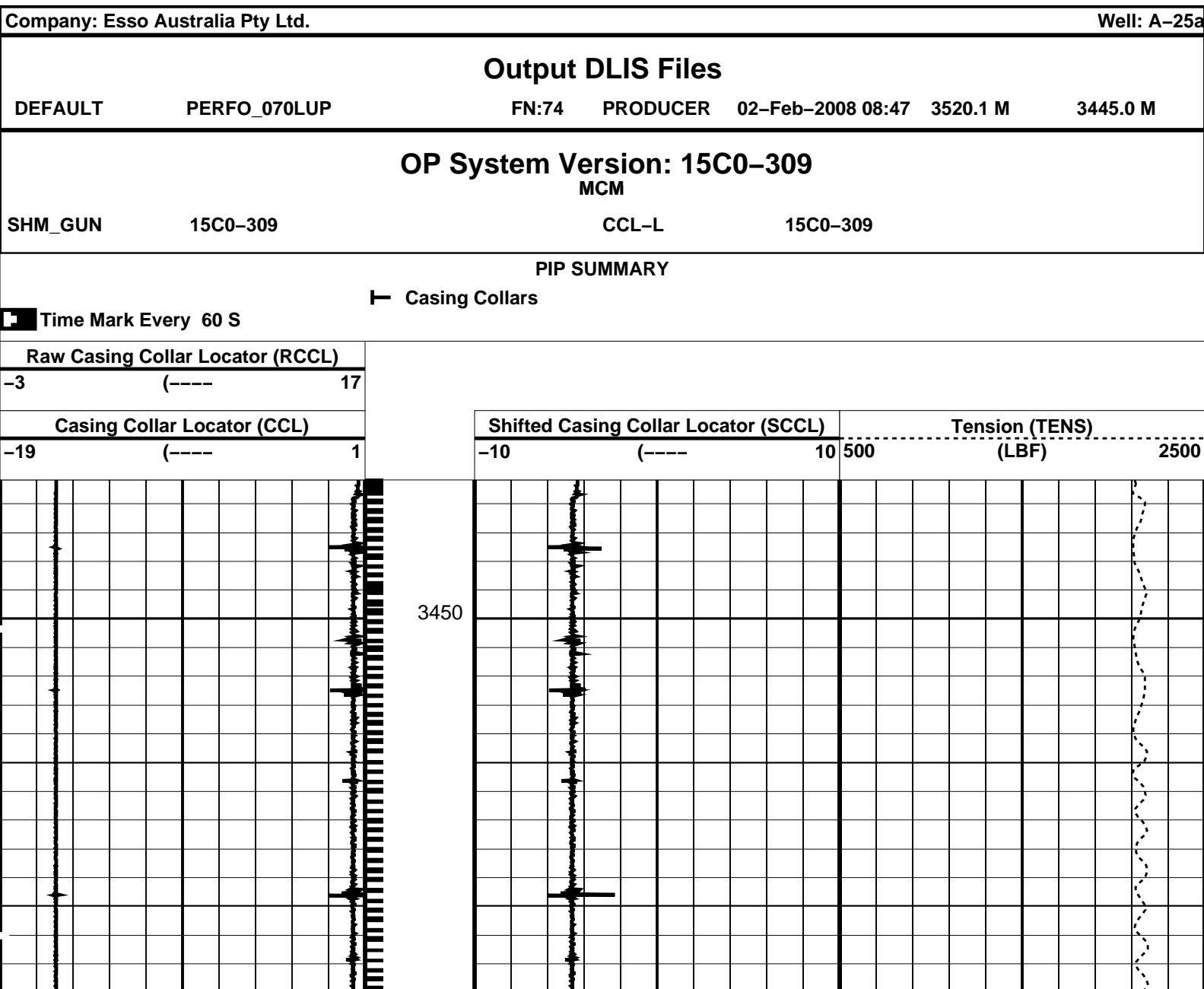
Output DLIS Files

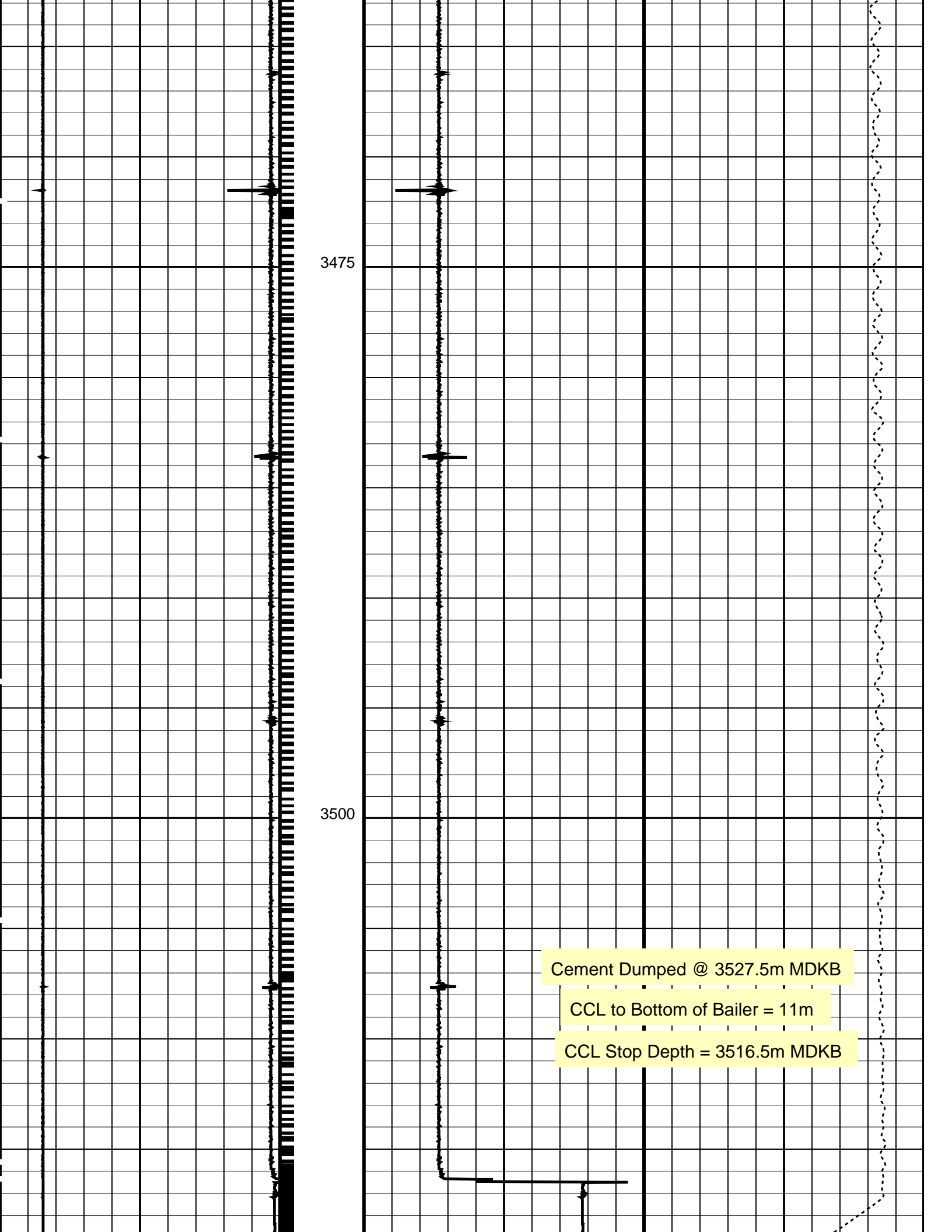
DEFAULT PERFO_074LUP FN:78 PRODUCER 02-Feb-2008 11:42

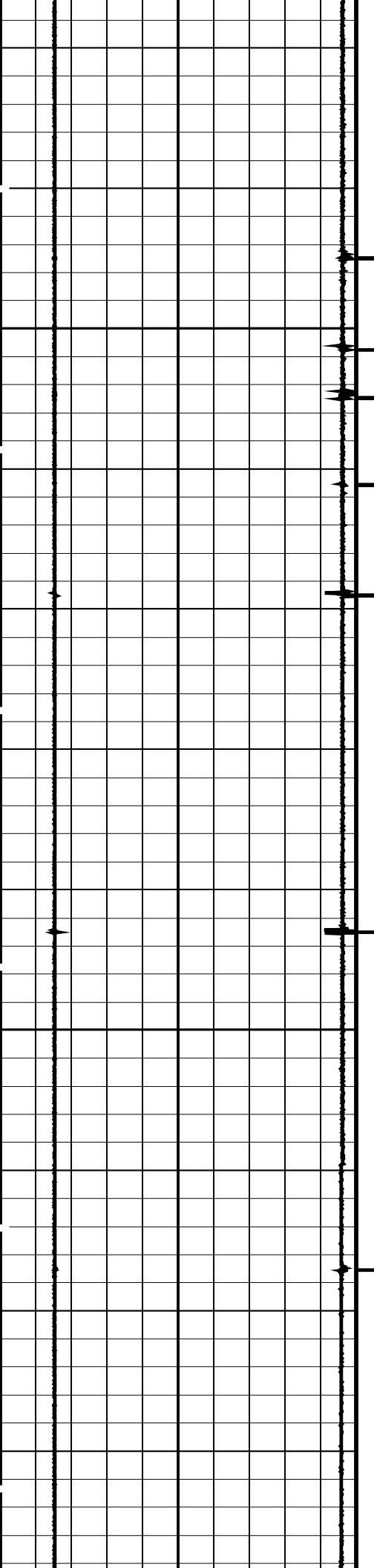
Schlumberger

Cement Dump Pass # 1

MAXIS Field Log

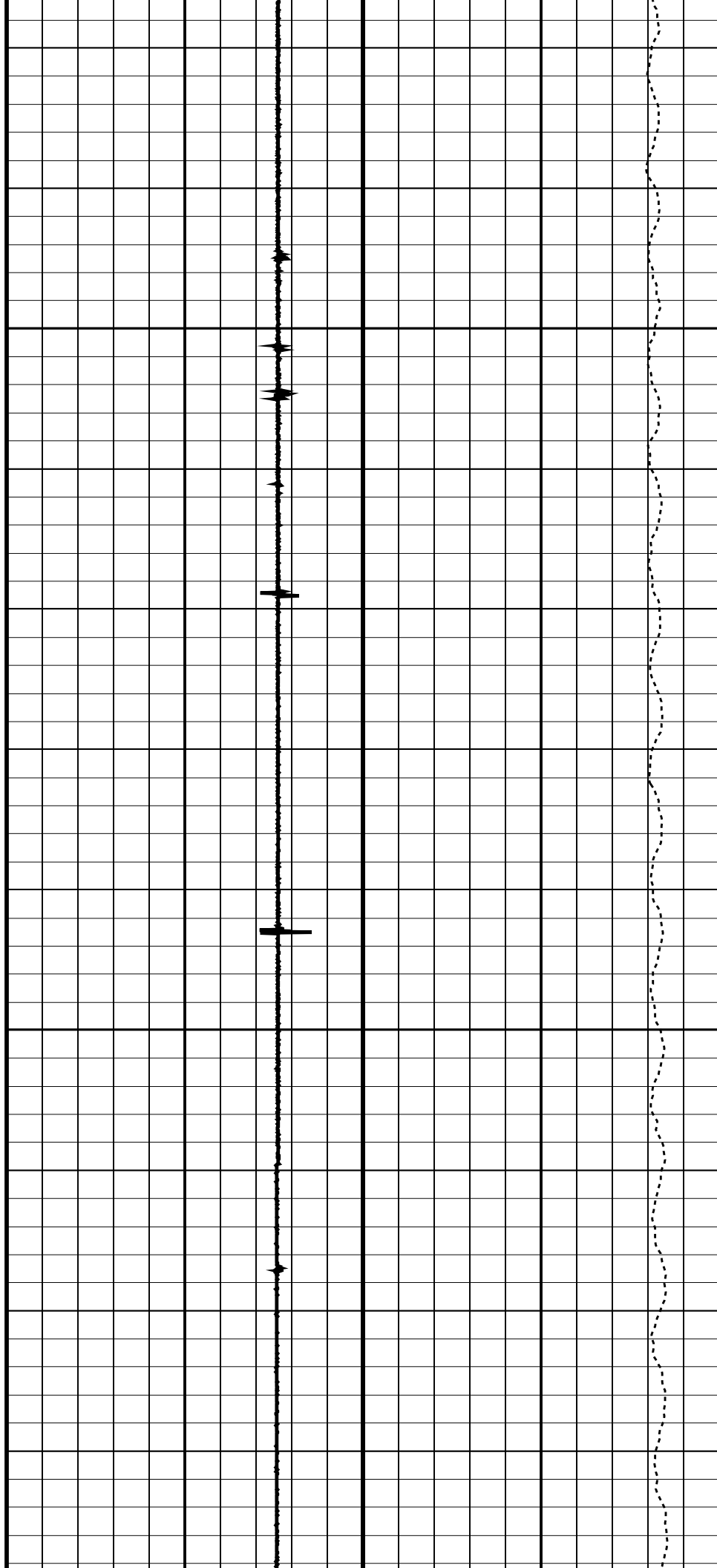


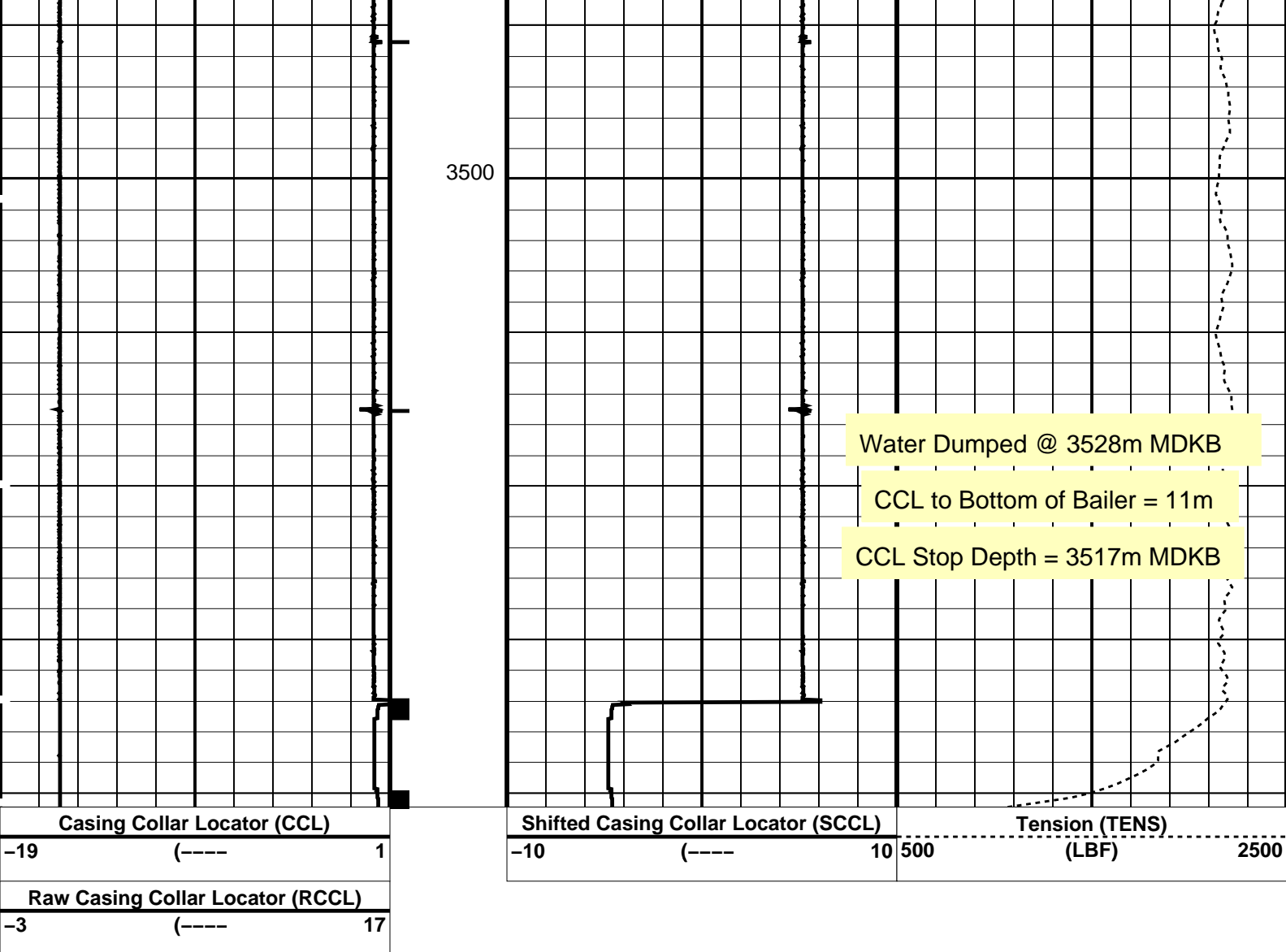






3450

3475





PIP SUMMARY			
 Casing Collars			
 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: CCLLog	Vertical Scale: 1:200	Graphics File Created: 02-Feb-2008 05:46	
OP System Version: 15C0-309			
MCM			
SHM_GUN	15C0-309	CCL-L	15C0-309
Output DLIS Files			
DEFAULT	PERFO_065LUP	FN:69	PRODUCER 02-Feb-2008 05:46



Plug Log Out of Position
After Setting

Company: Esso Australia Pty Ltd.

Well: A-25a

Output DLIS Files

DEFAULT

CCL_058LUP

FN:62

PRODUCER

02-Feb-2008 01:55

OP System Version: 15C0-309

MCM

MPEX-DA

15C0-309

MPSU-CA

15C0-309

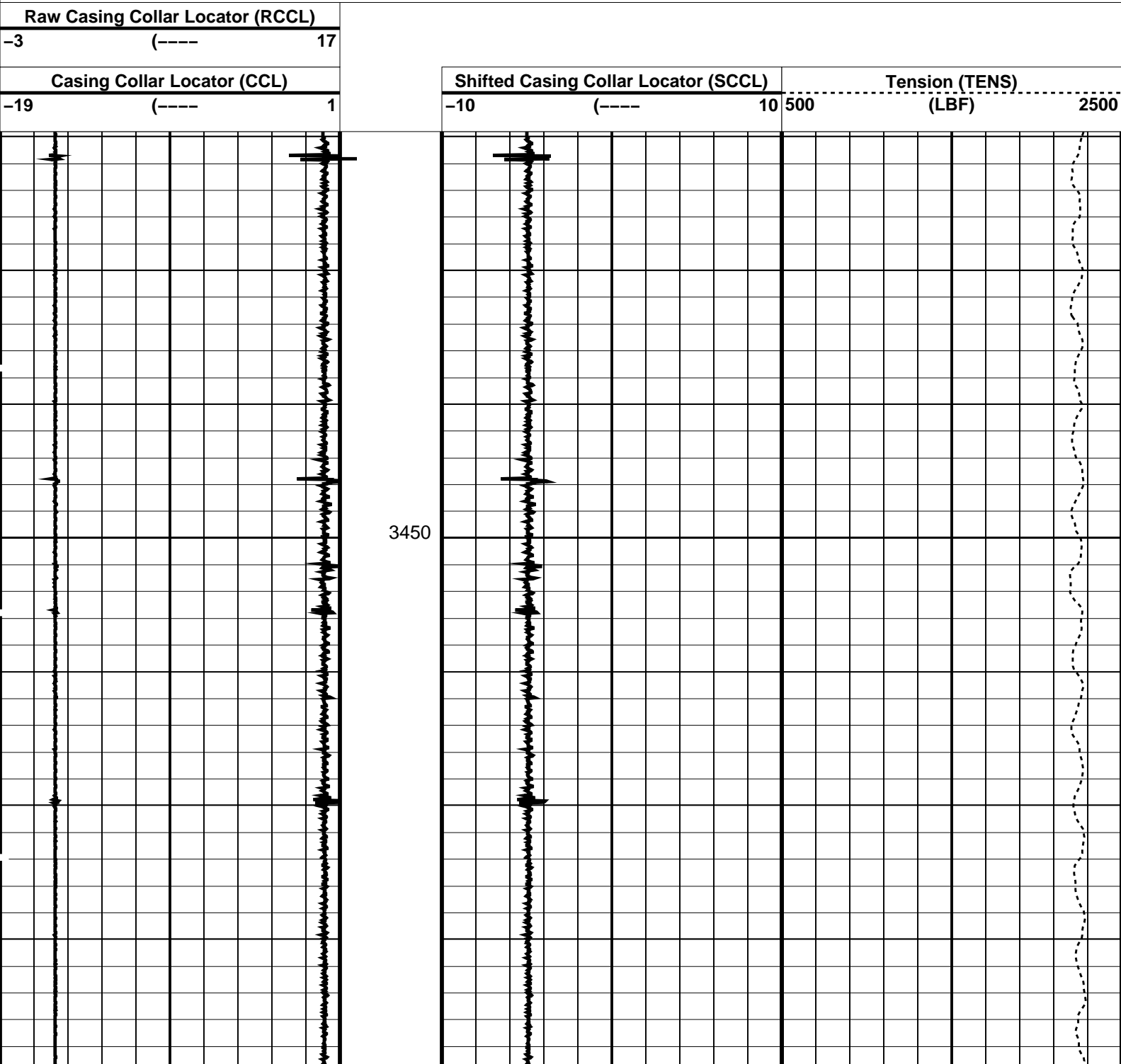
CCL-L

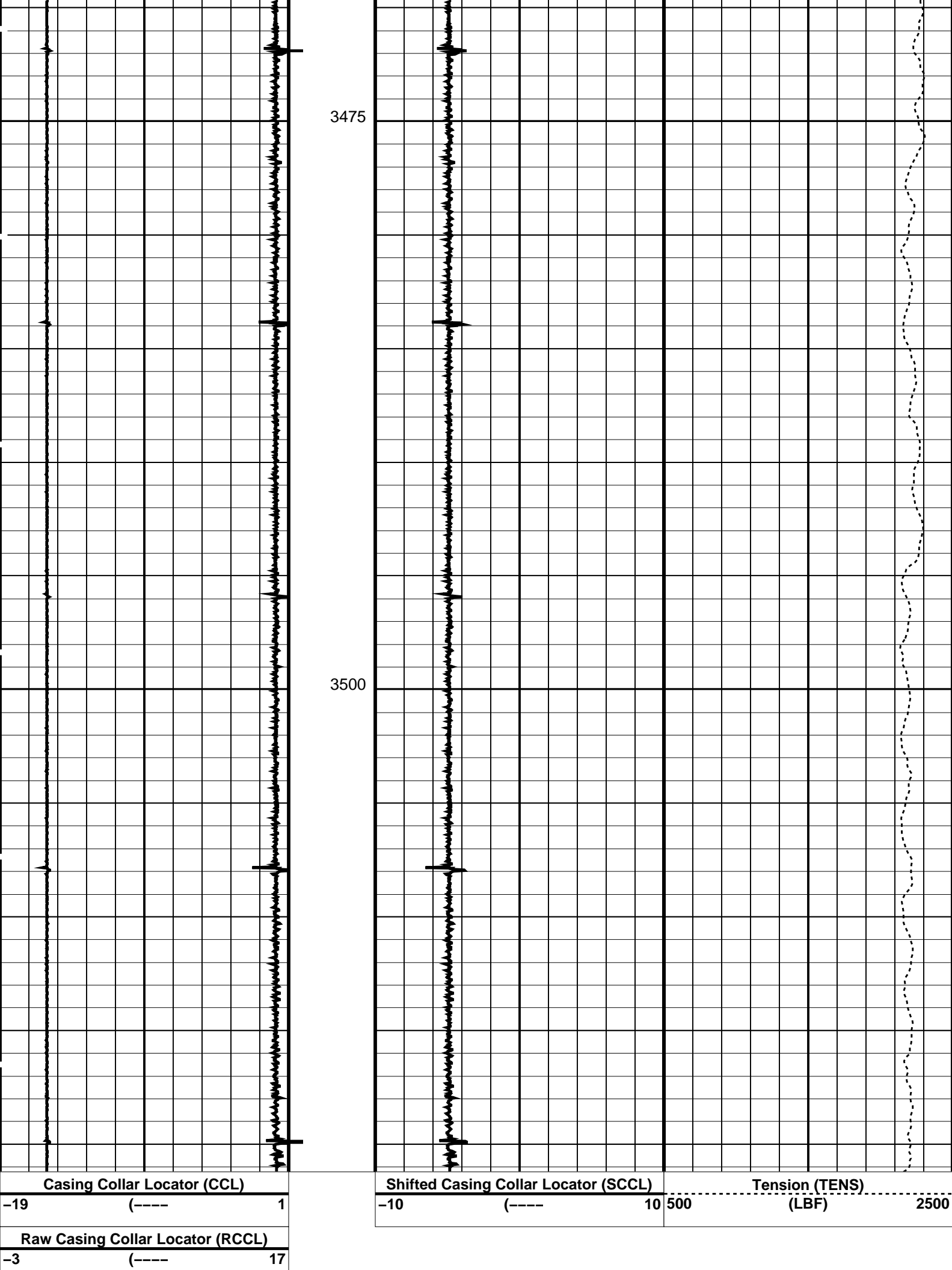
15C0-309

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	1.2 V
	CCL Detection Level	

Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 02-Feb-2008 01:55

OP System Version: 15C0-309

MCM

MPEX-DA 15C0-309 MPSU-CA 15C0-309

CCL-L 15C0-309

Output DLIS Files

DEFAULT CCL_058LUP FN:62 PRODUCER 02-Feb-2008 01:55

Schlumberger

Plug Setting Pass

MAXIS Field Log

PERFO2 Operational Summary Listing				
Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
MPEX	Used	3528.5	3528.5	Sat Feb 02 01:53:32 2008

Company: Esso Australia Pty Ltd.

Well: A-25a

Output DLIS Files

DEFAULT CCL_057LUP FN:61 PRODUCER 02-Feb-2008 01:21

OP System Version: 15C0-309

MCM

MPEX-DA 15C0-309 MPSU-CA 15C0-309

CCL-L 15C0-309

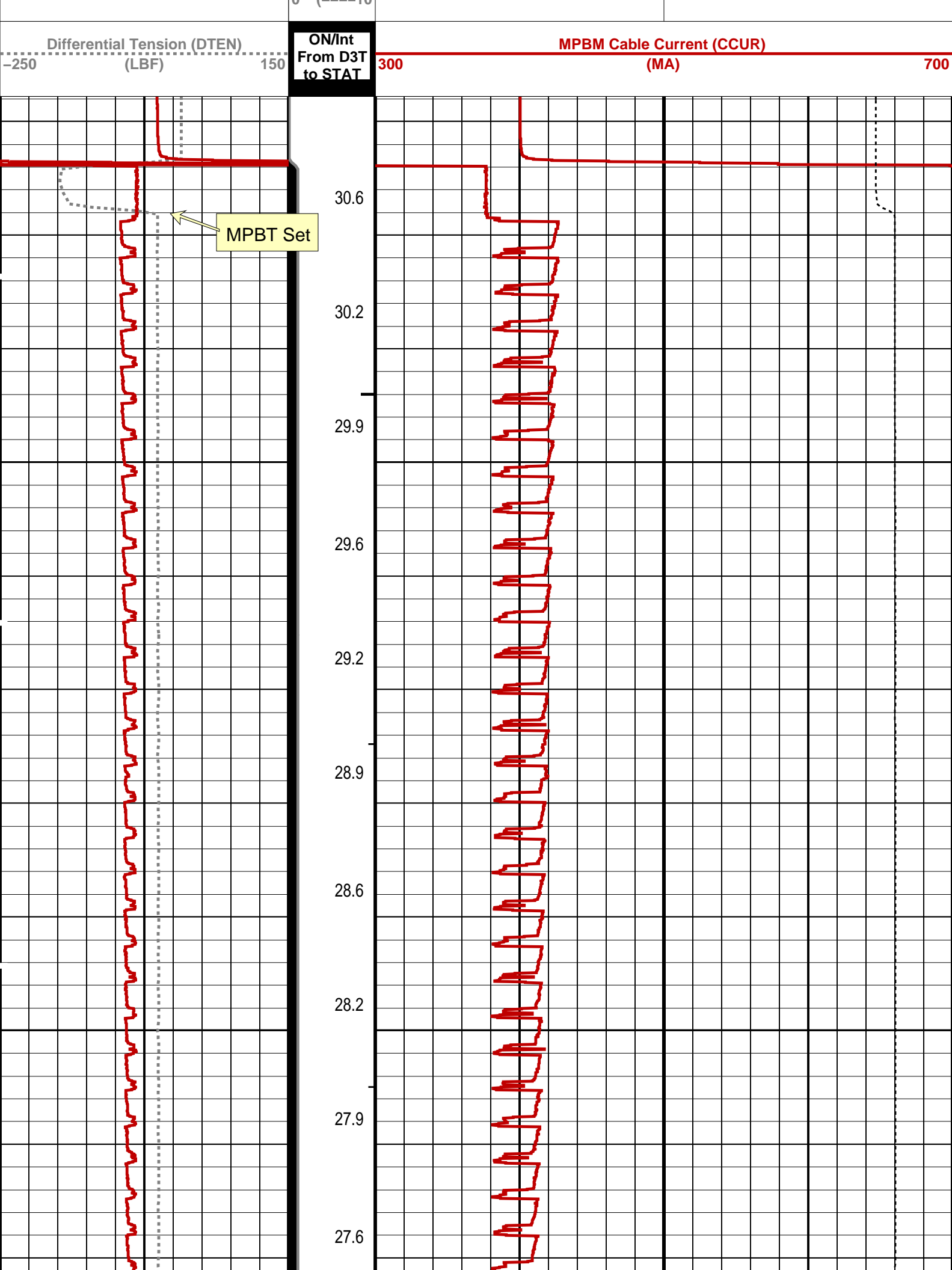
PIP SUMMARY

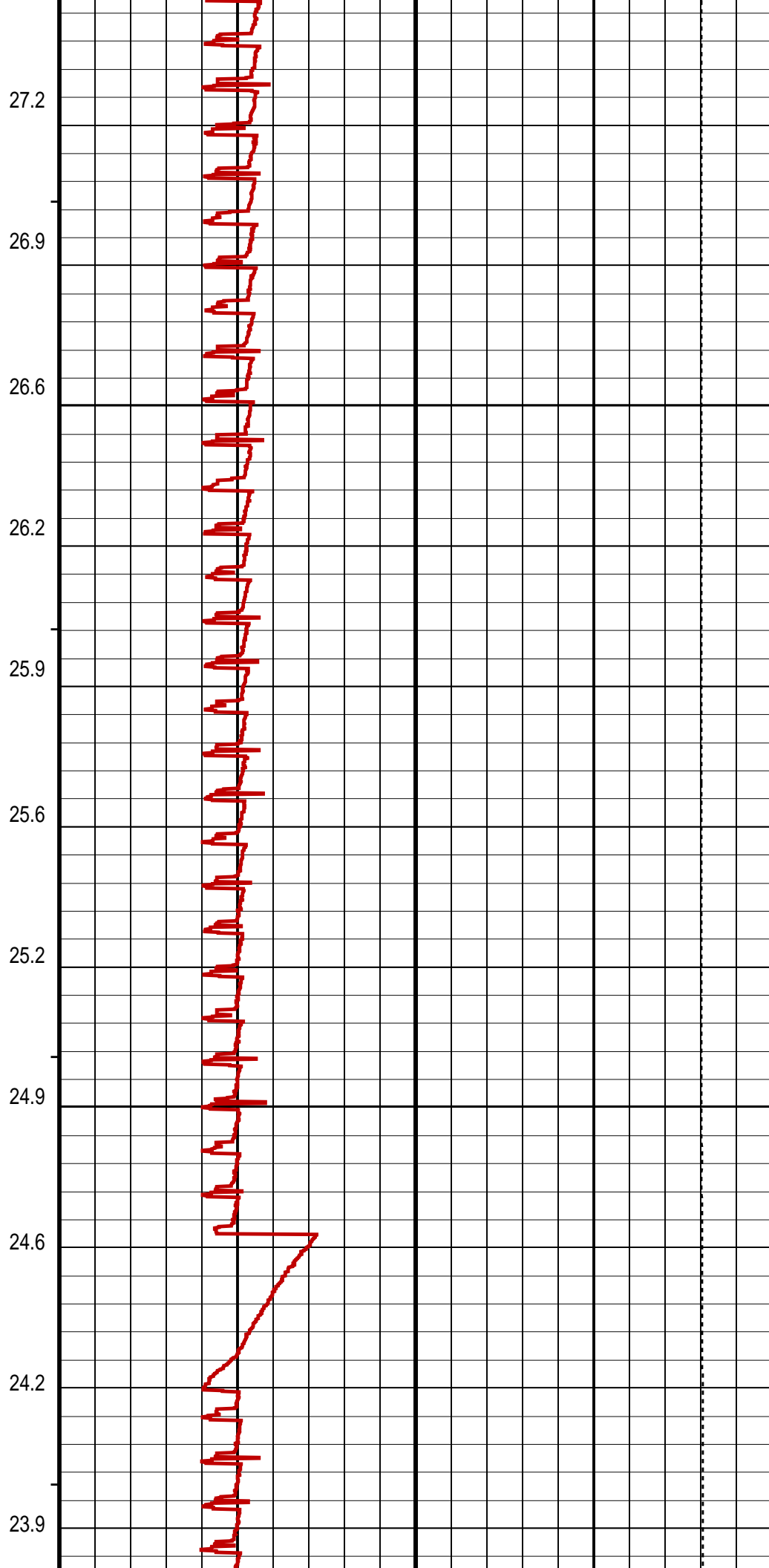
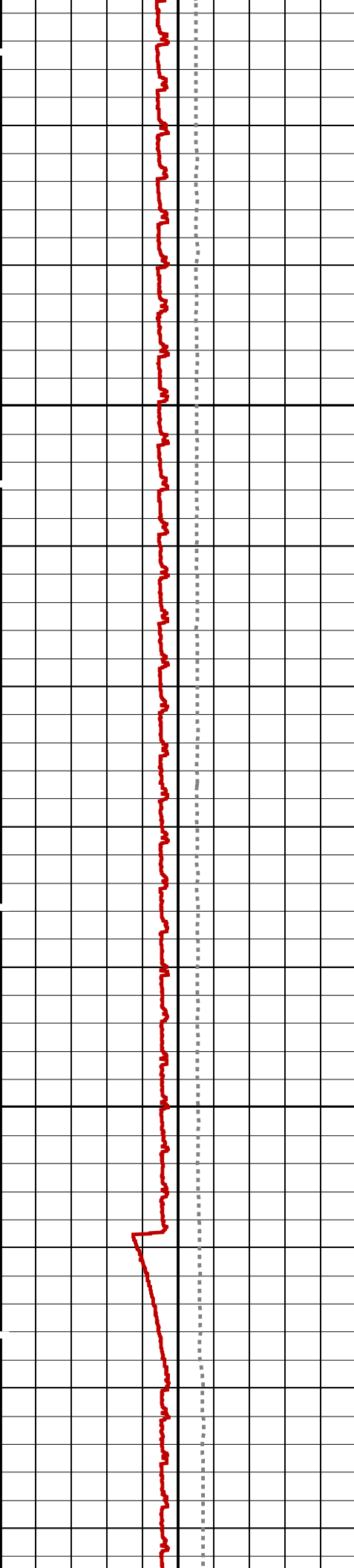
Time Mark Every 60 S

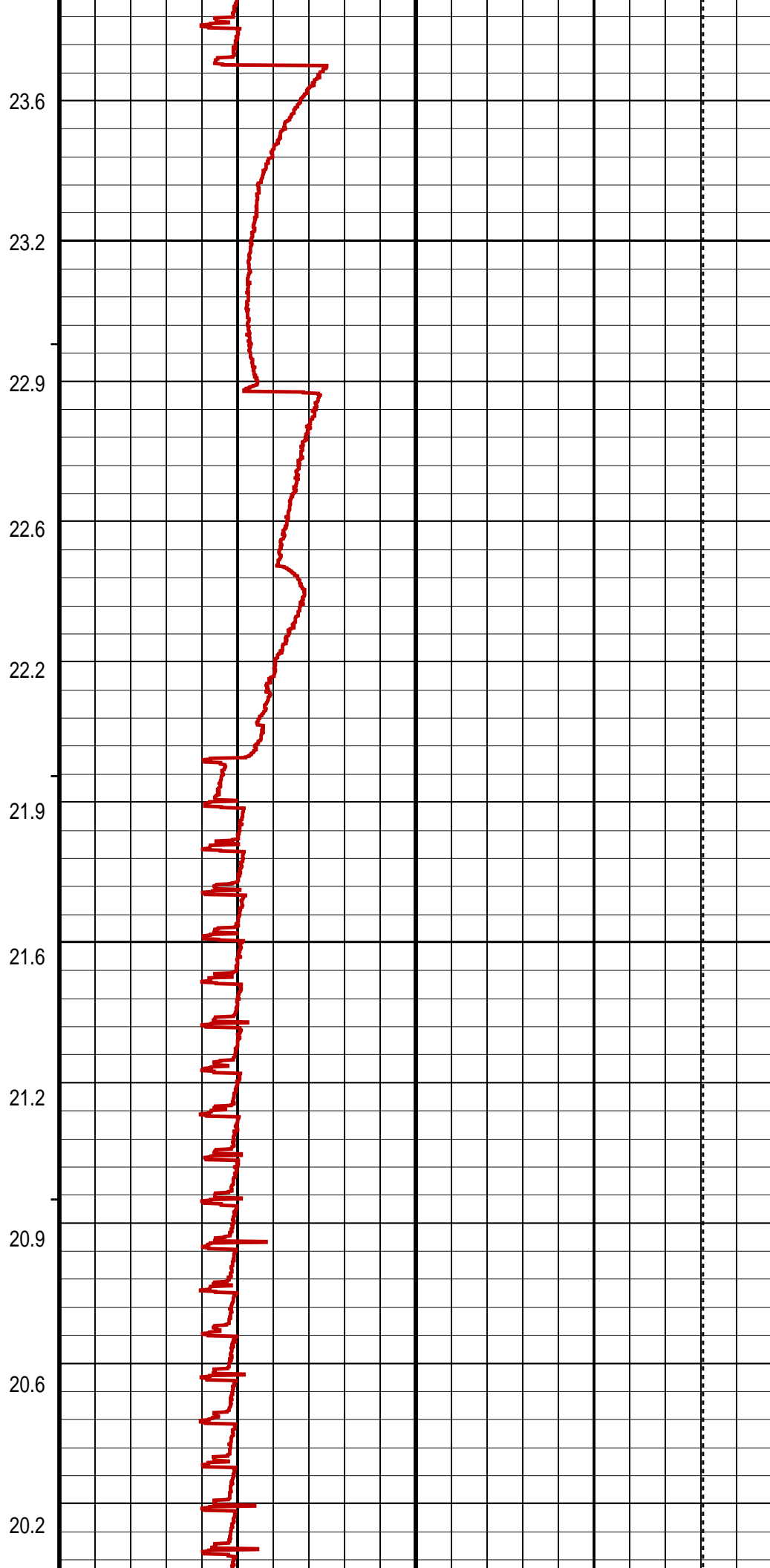
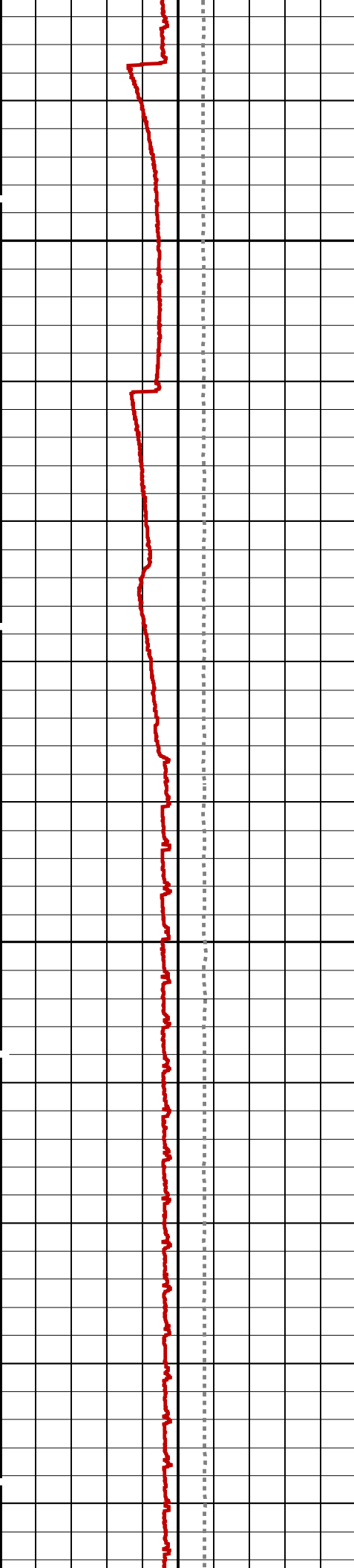
MPSU Run Time Every 1 MN

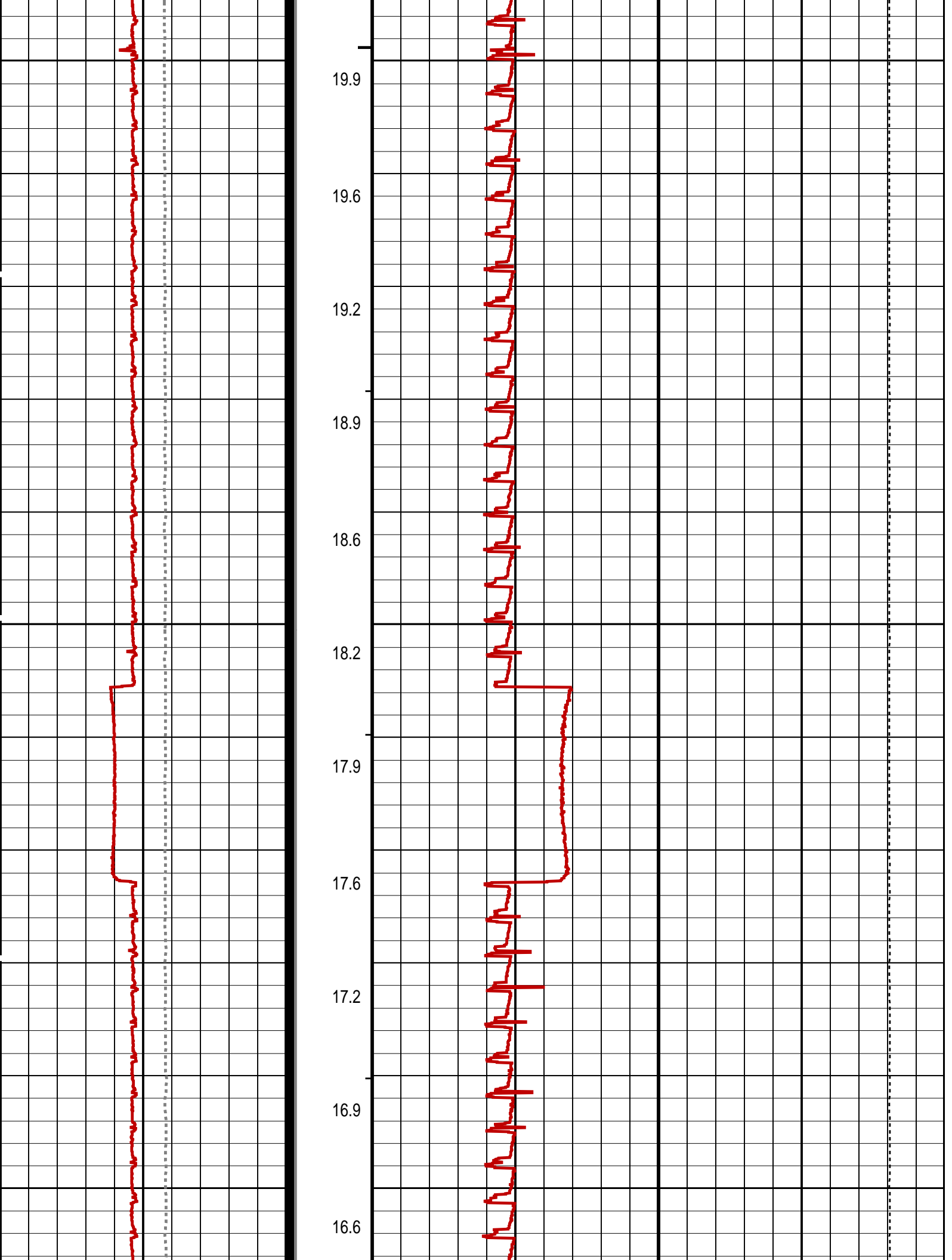
MPSU Run Time Every 10 MN

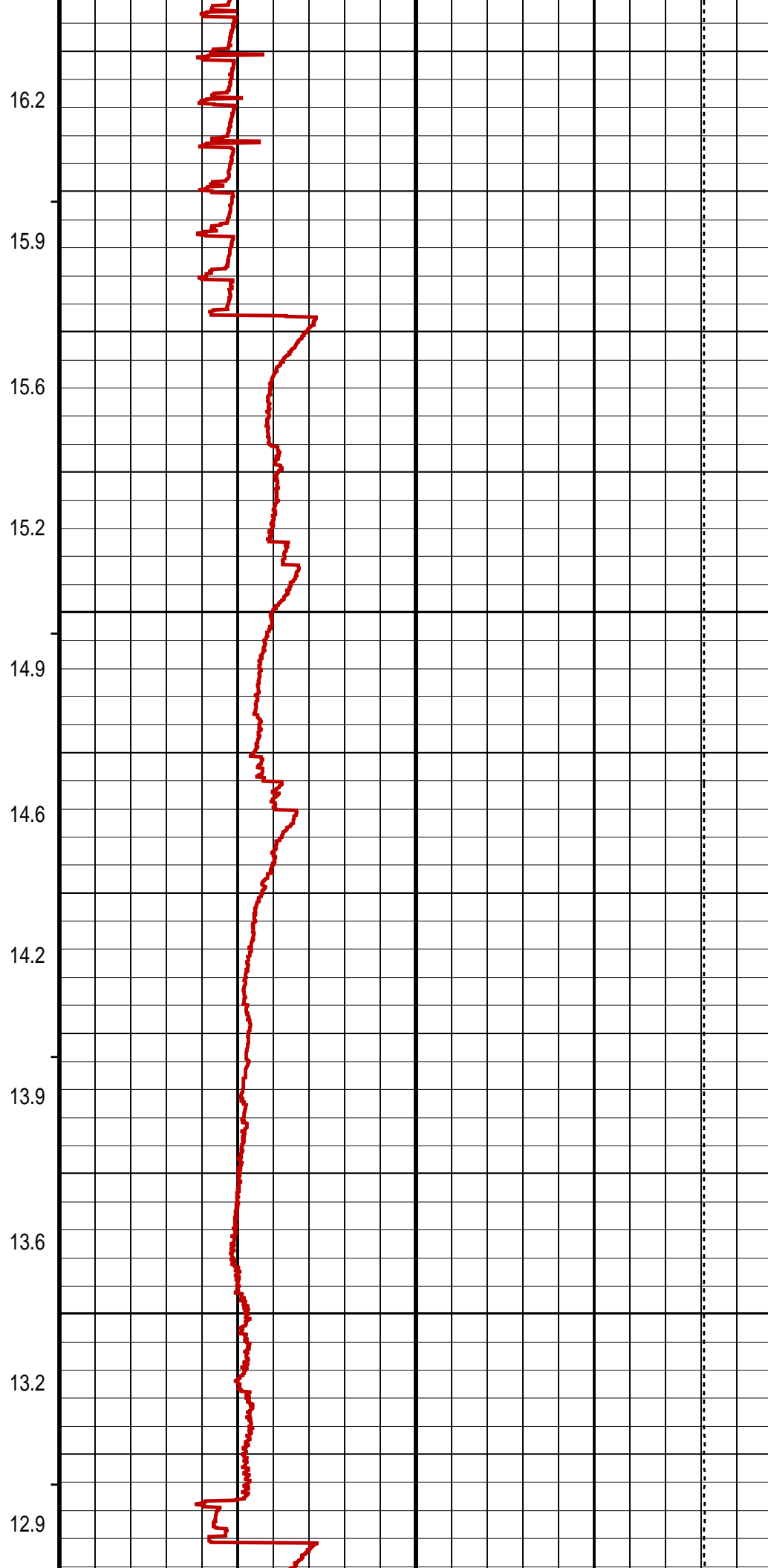
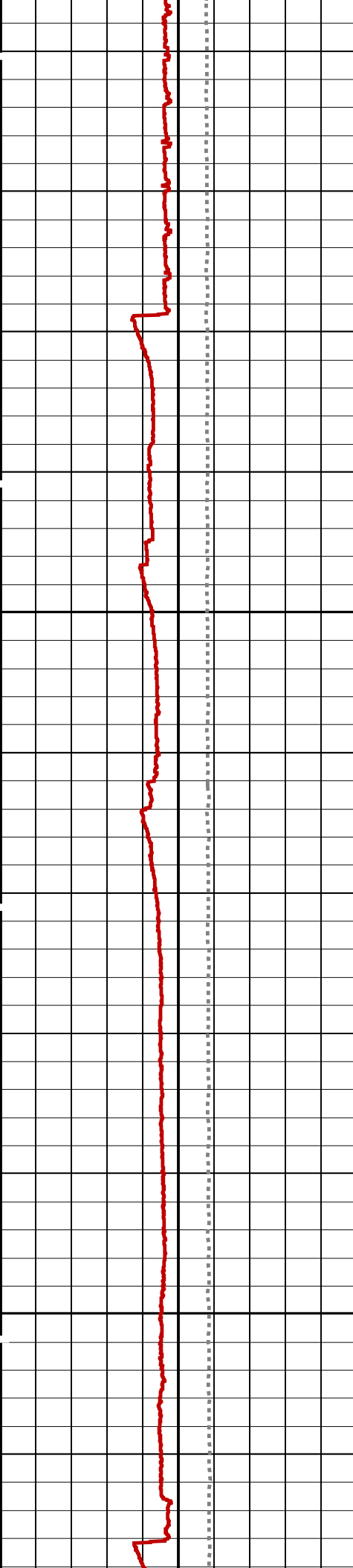
RUN Time (RTIM) (MN)		MPSU Run Status (STAT)		Tension (TENS) (LBF)	
MPSU Head Voltage (HV) (V)					
250	350			500	2500

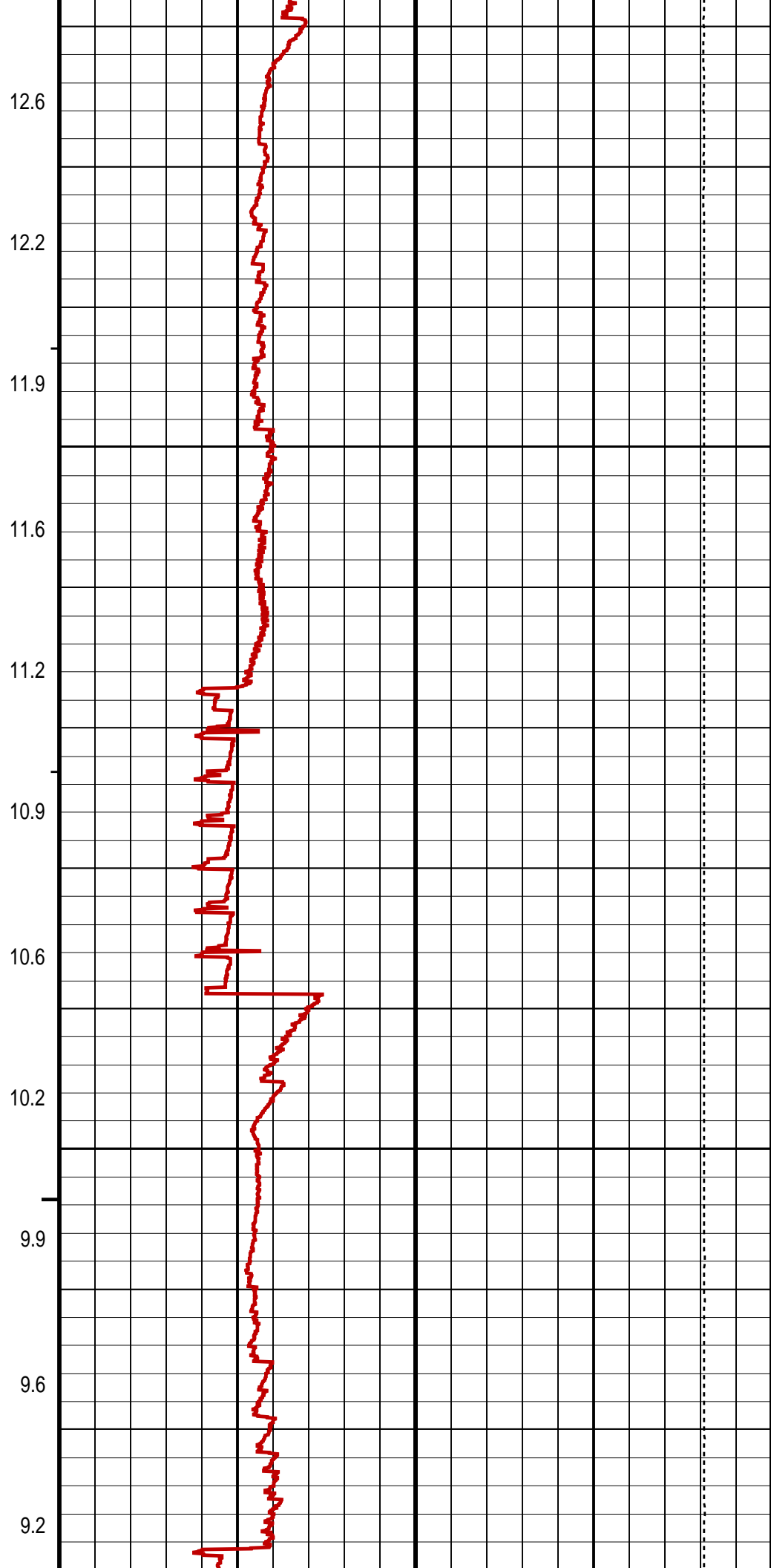
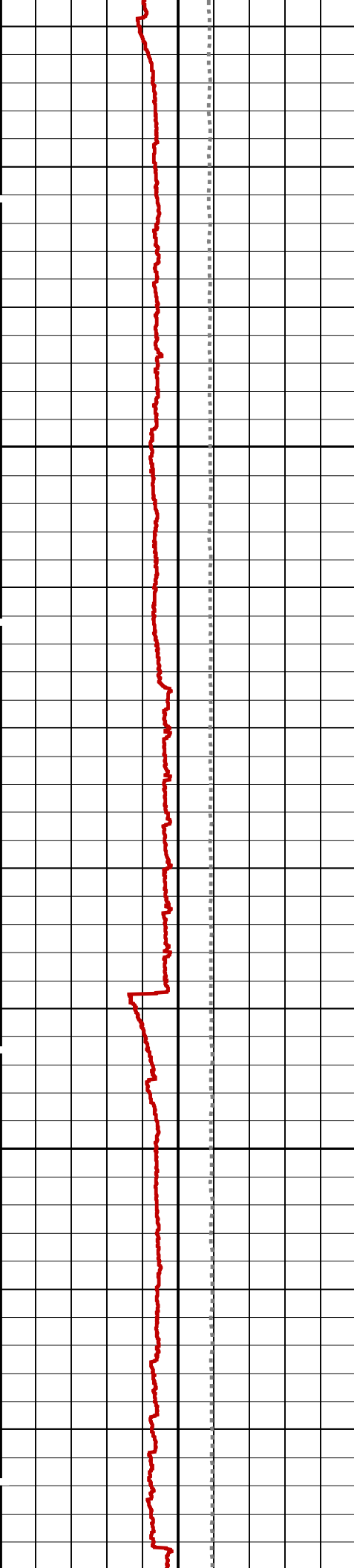


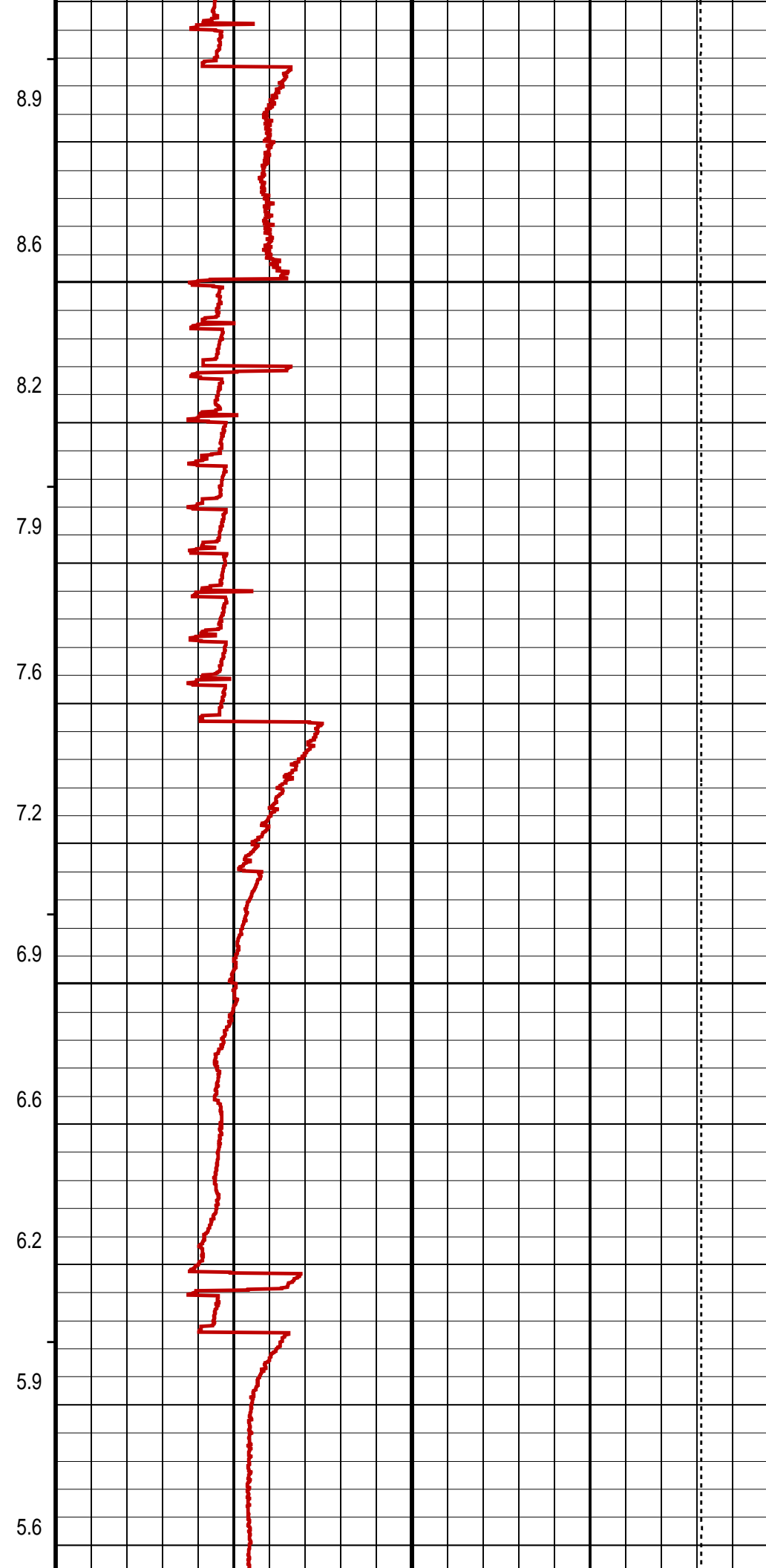
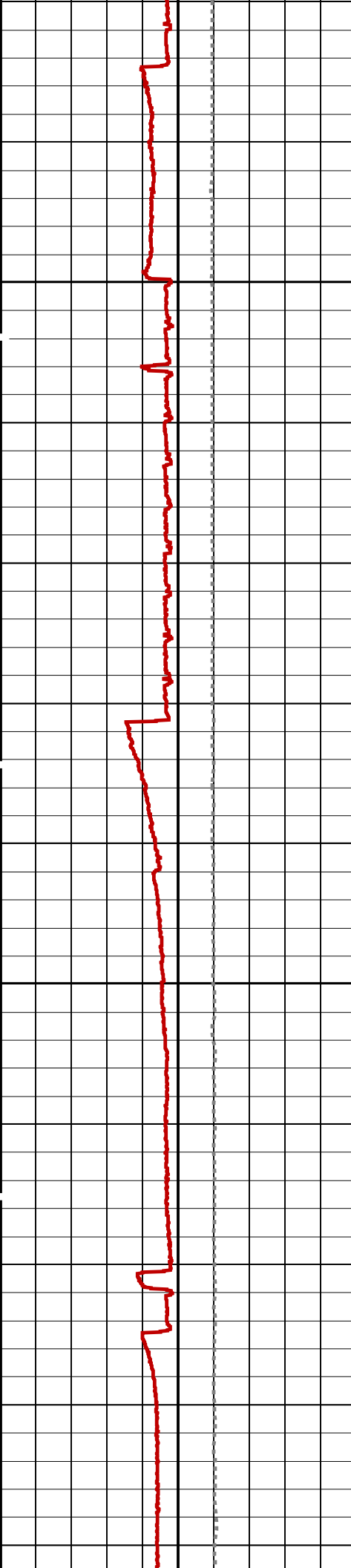


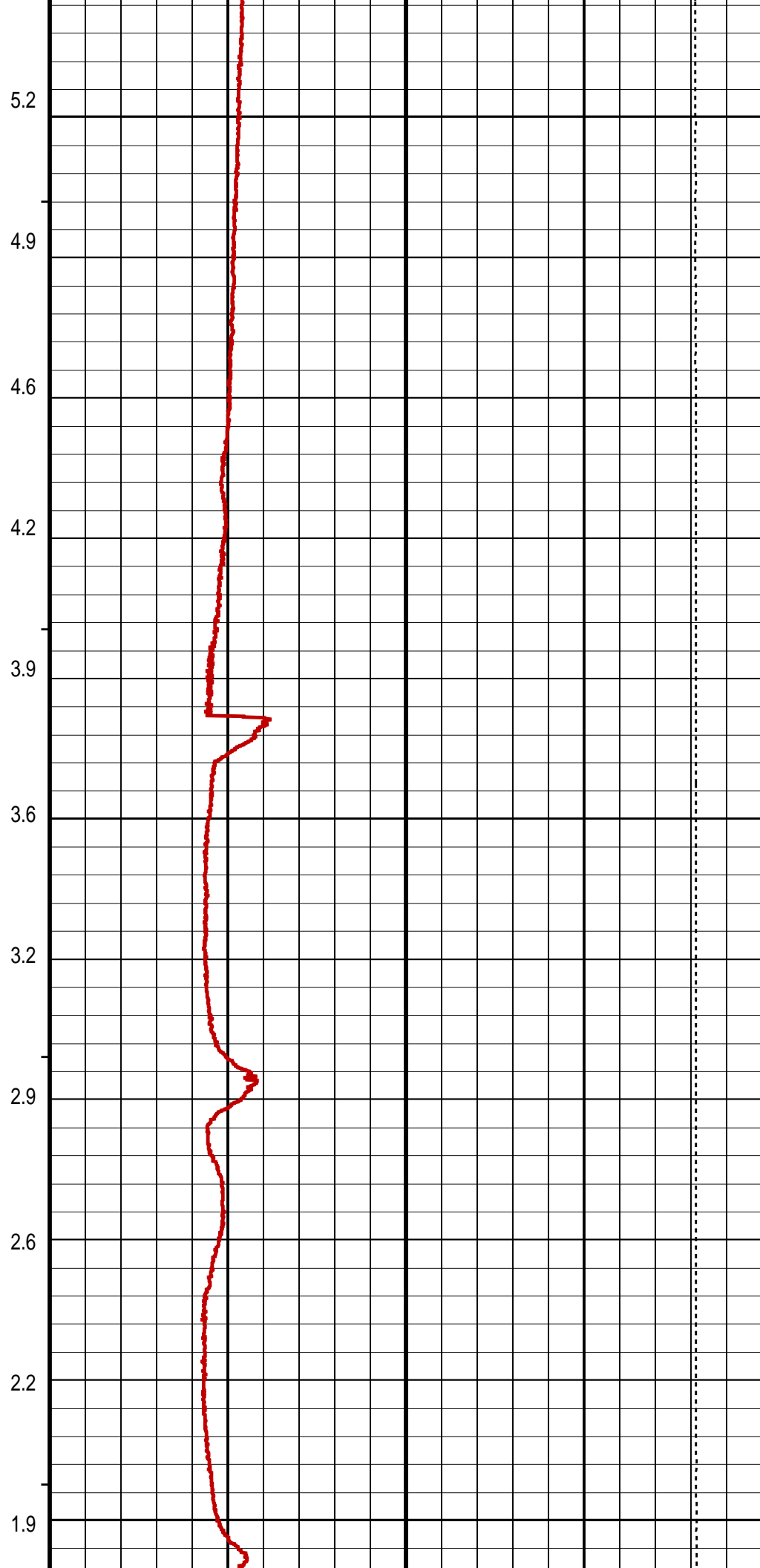
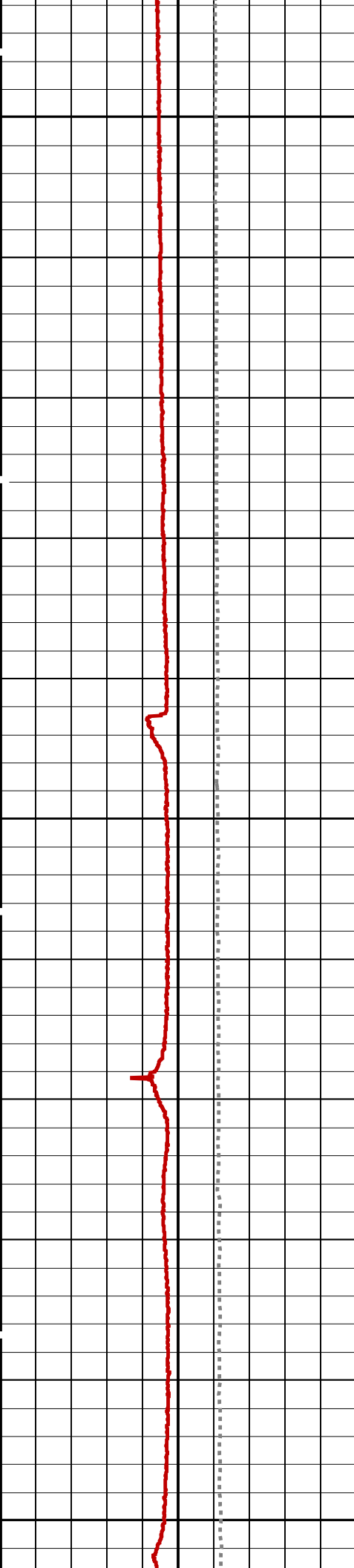


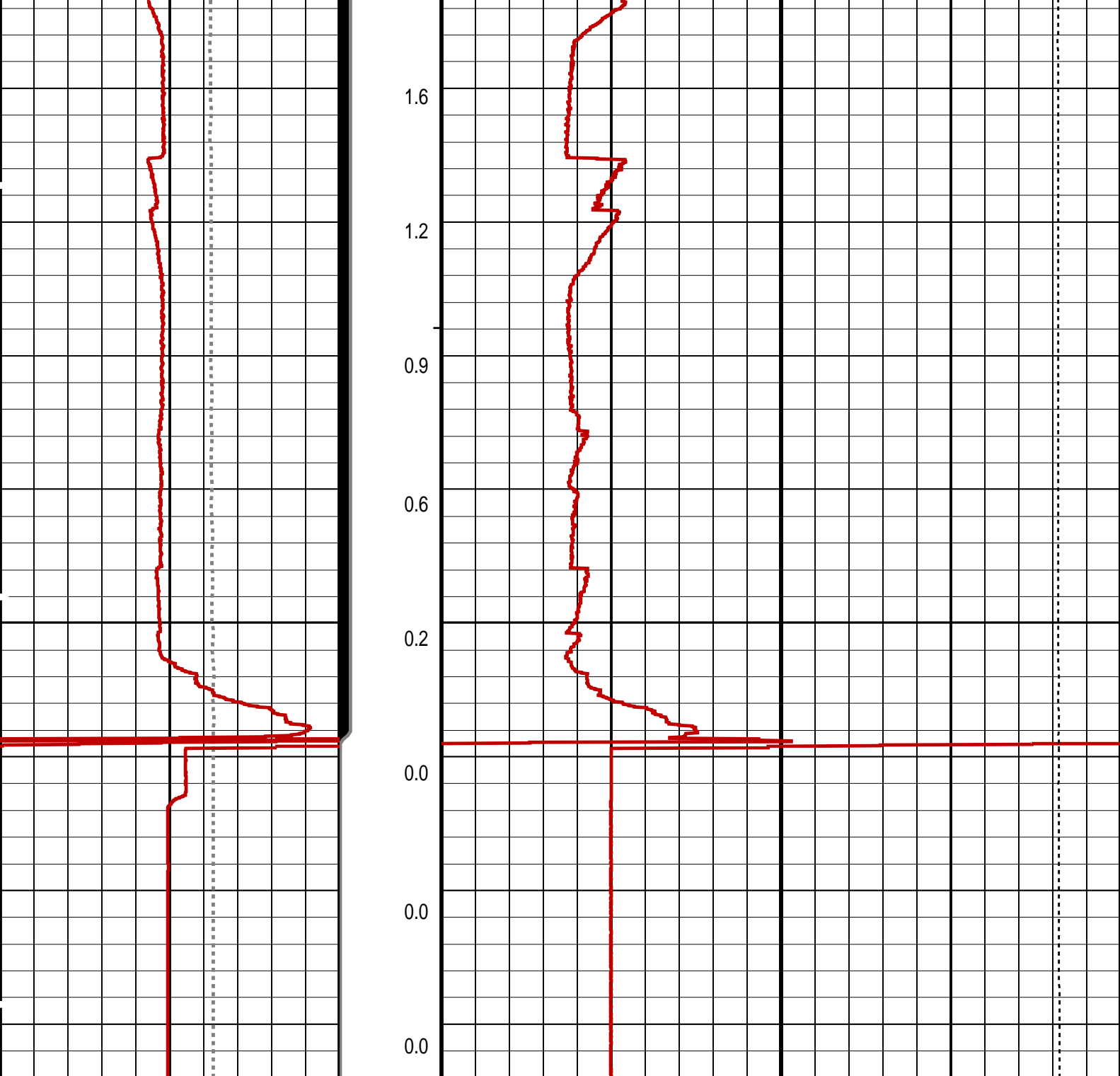













Differential Tension (DTEN) (LBF)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR) (MA)
-250 150		300 700
MPSU Head Voltage (HV) (V)	MPSU Run Status (STAT)	Tension (TENS) (LBF)
250 350	0 (----10)	500 2500
	RUN Time (RTIM) (MN)	

PIP SUMMARY

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

Time Mark Every 60 S

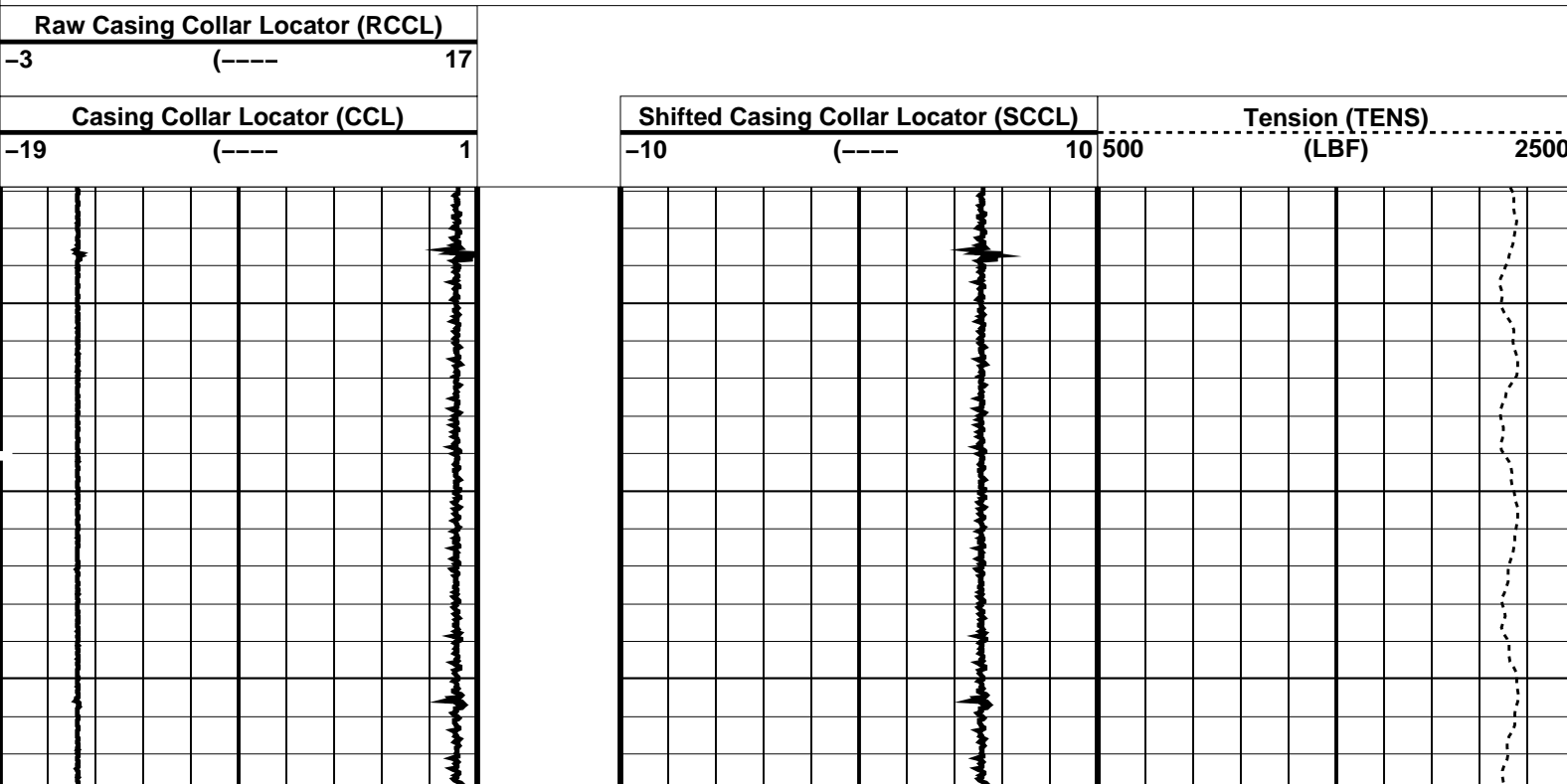
Parameters

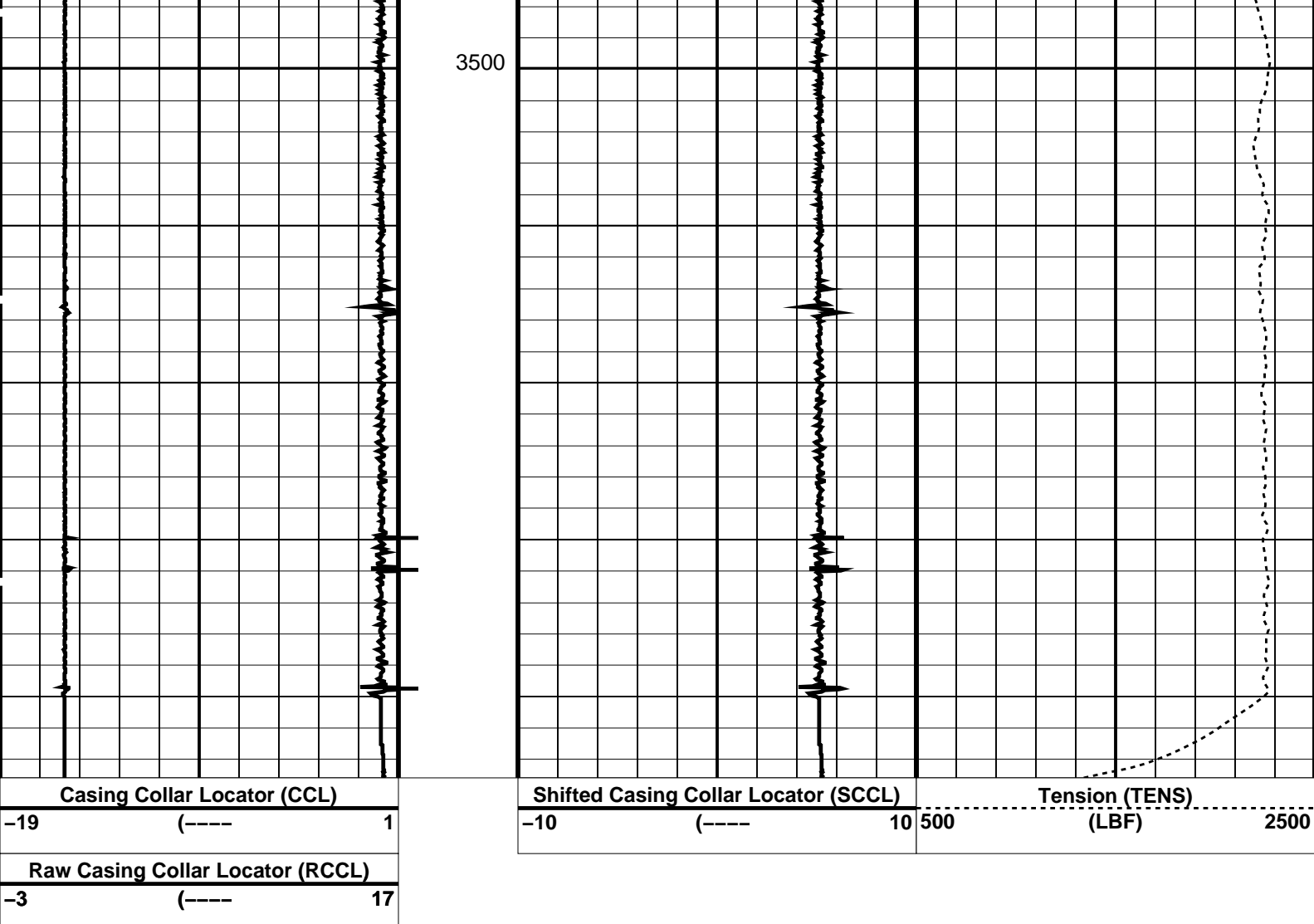


Plug Correlation Pass

MAXIS Field Log

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	1.2 V

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 02-Feb-2008 01:03

OP System Version: 15C0-309

MCM

MPEX-DA	15C0-309	MPSU-CA	15C0-309
CCL-L	15C0-309		

Output DLIS Files

DEFAULT	CCL_054LUP	FN:58	PRODUCER	02-Feb-2008 01:03
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Schlumberger

Plug Correlation
Over WEG

Company: Esso Australia Pty Ltd.

Well: A-25a

Output DLIS Files

DEFAULT

CCL_051LUP

FN:55

PRODUCER

02-Feb-2008 00:36

OP System Version: 15C0-309

MCM

MPEX-DA

15C0-309

MPSU-CA

15C0-309

CCL-L

15C0-309

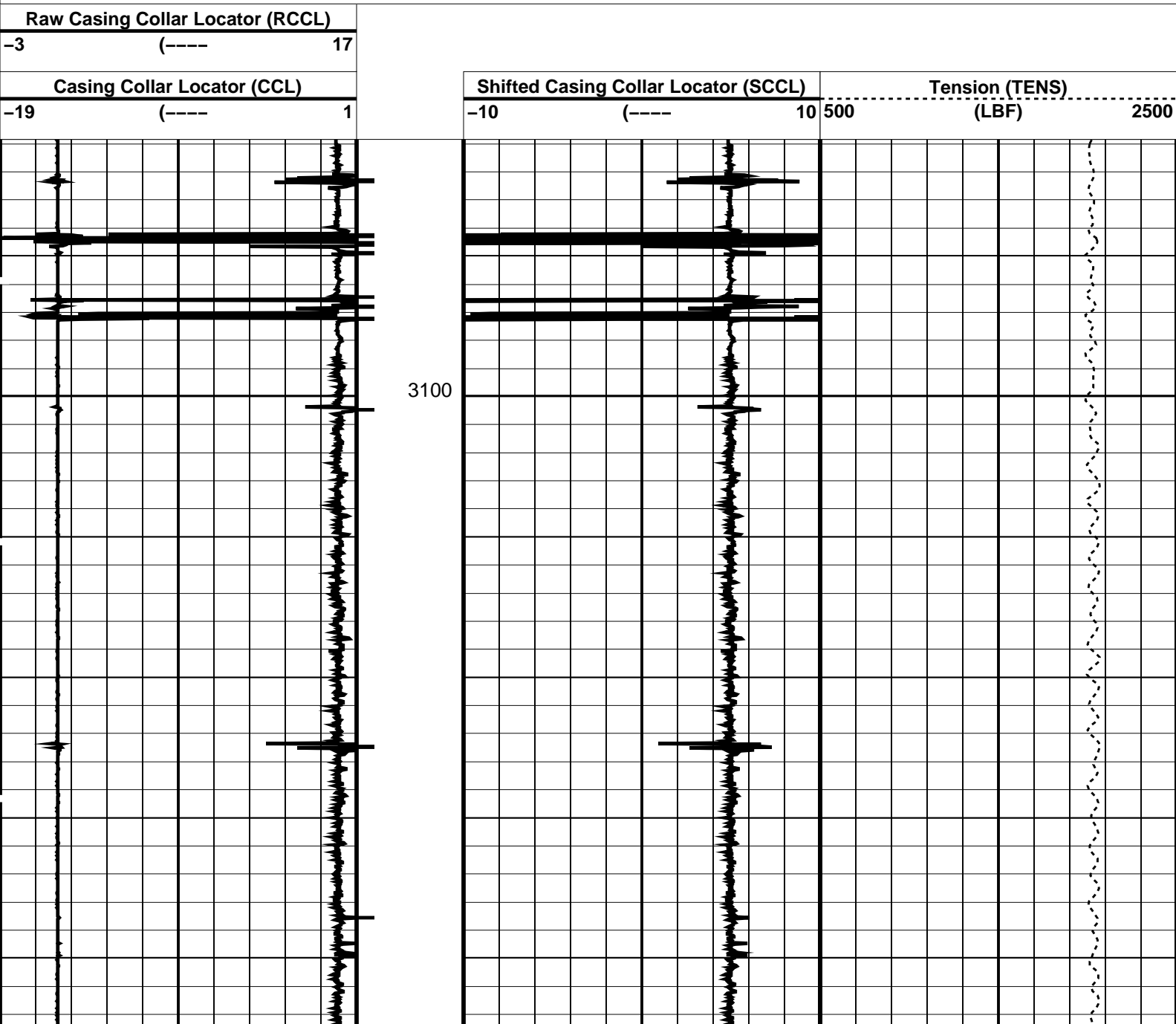
Changed Parameter Summary

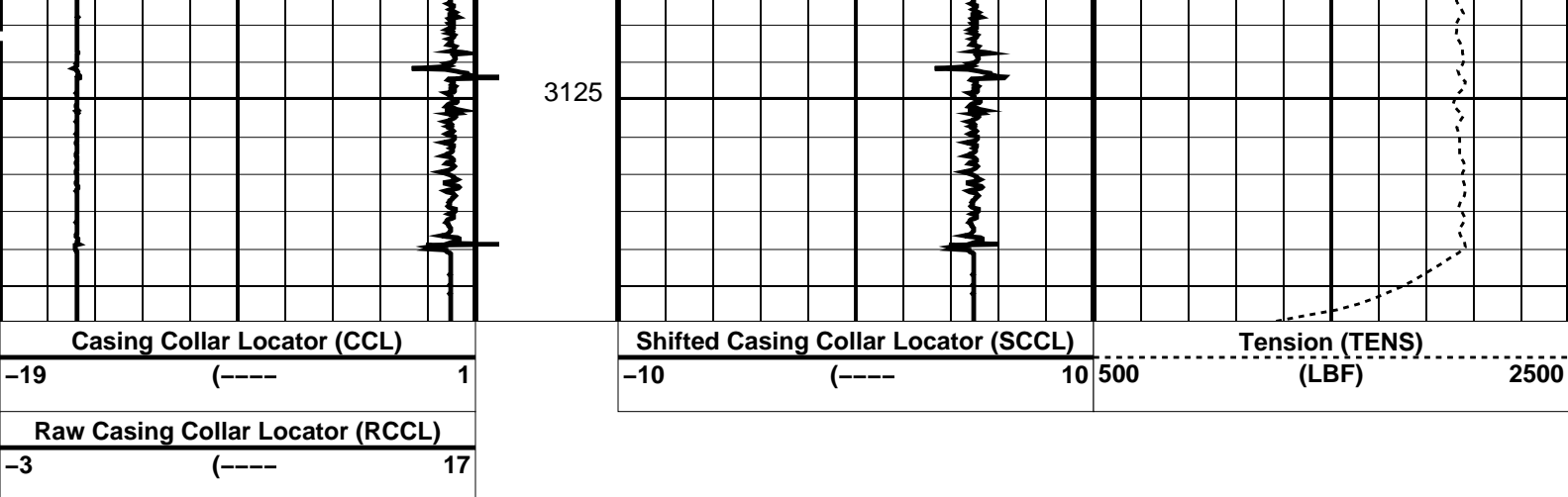
DLIS Name	New Value	Previous Value	Depth & Time
CCLT	1.2 V	0.9 V	3113.9 00:39:11

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY


Time Mark Every 60 S

Casing Collars

Parameters		
DLIS Name	Description	Value
CCL-L	Casing Collar Locator	
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.9 V
Format: CCLLog Vertical Scale: 1:200		Graphics File Created: 02-Feb-2008 00:36

OP System Version: 15C0-309			
MCM			
MPEX-DA	15C0-309	MPSU-CA	15C0-309
CCL-L	15C0-309		

Output DLIS Files			
DEFAULT	CCL_051LUP	FN:55	PRODUCER 02-Feb-2008 00:36



Dummy Plug Tag
After Gun Firing

MAXIS Field Log

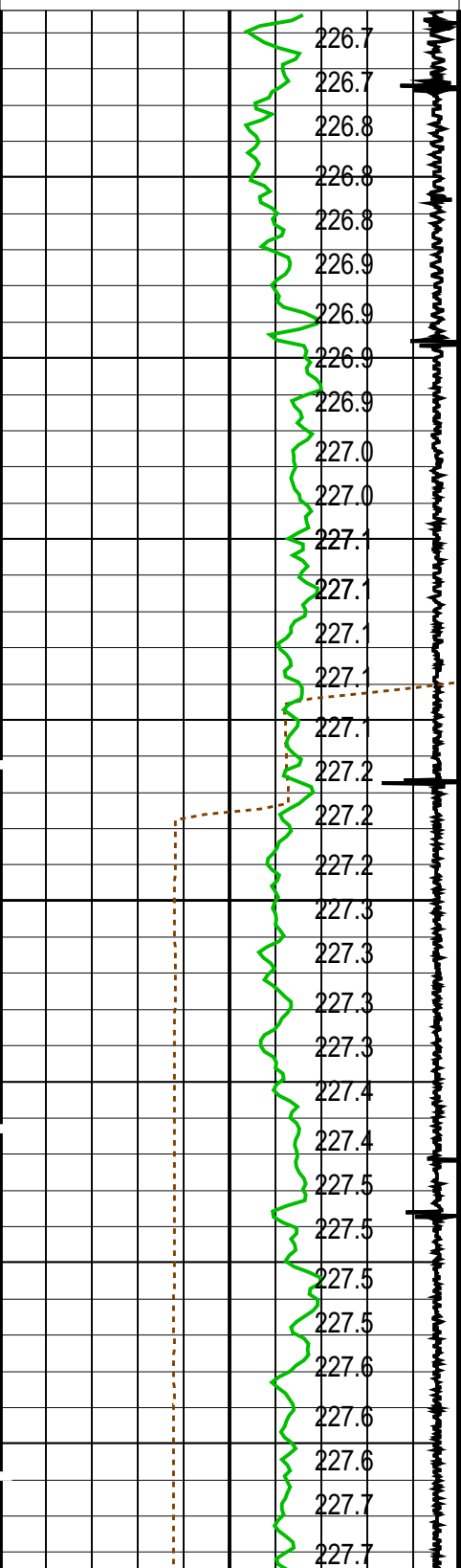
Company: Esso Australia Pty Ltd. Well: A-25a

Input DLIS Files					
DEFAULT	PERFO_042LUP	FN:41	PRODUCER	01-Feb-2008 19:33	3529.0 M 3258.8 M
Output DLIS Files					
DEFAULT	PERFO_042PUP	FN:46	PRODUCER	01-Feb-2008 20:02	3528.8 M 3450.3 M

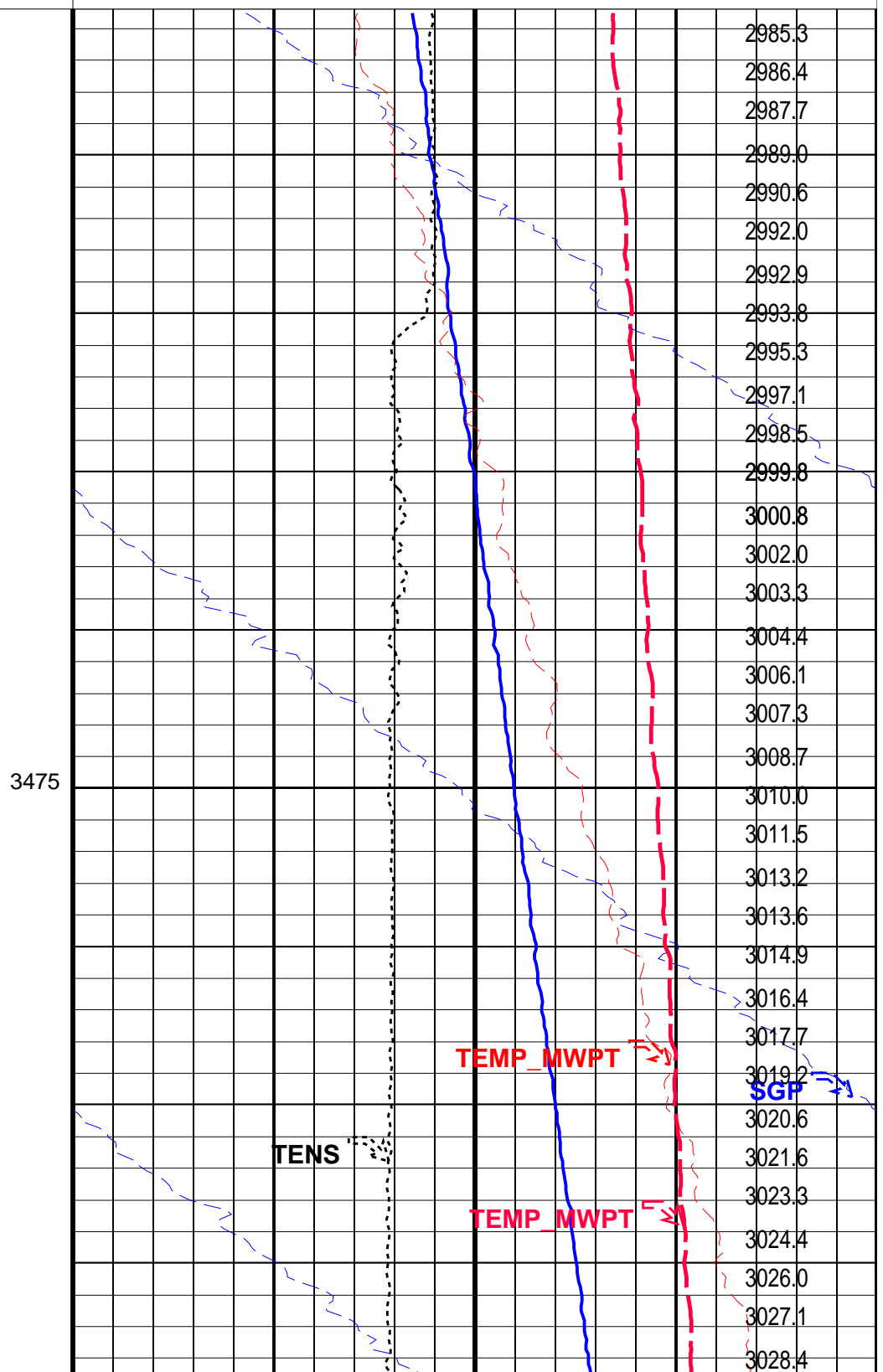
OP System Version: 15C0-309			
MCM			
MWPT-CA	SRPC-3546-Q1_2008_OP15	MWGT-AA	SRPC-3546-Q1_2008_OP15

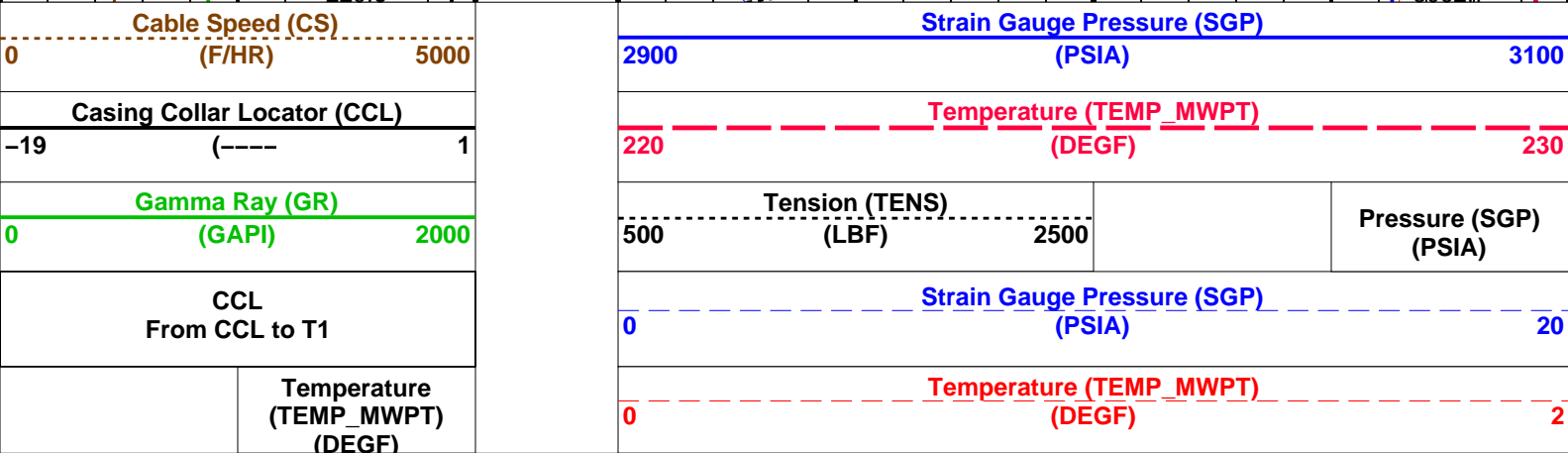
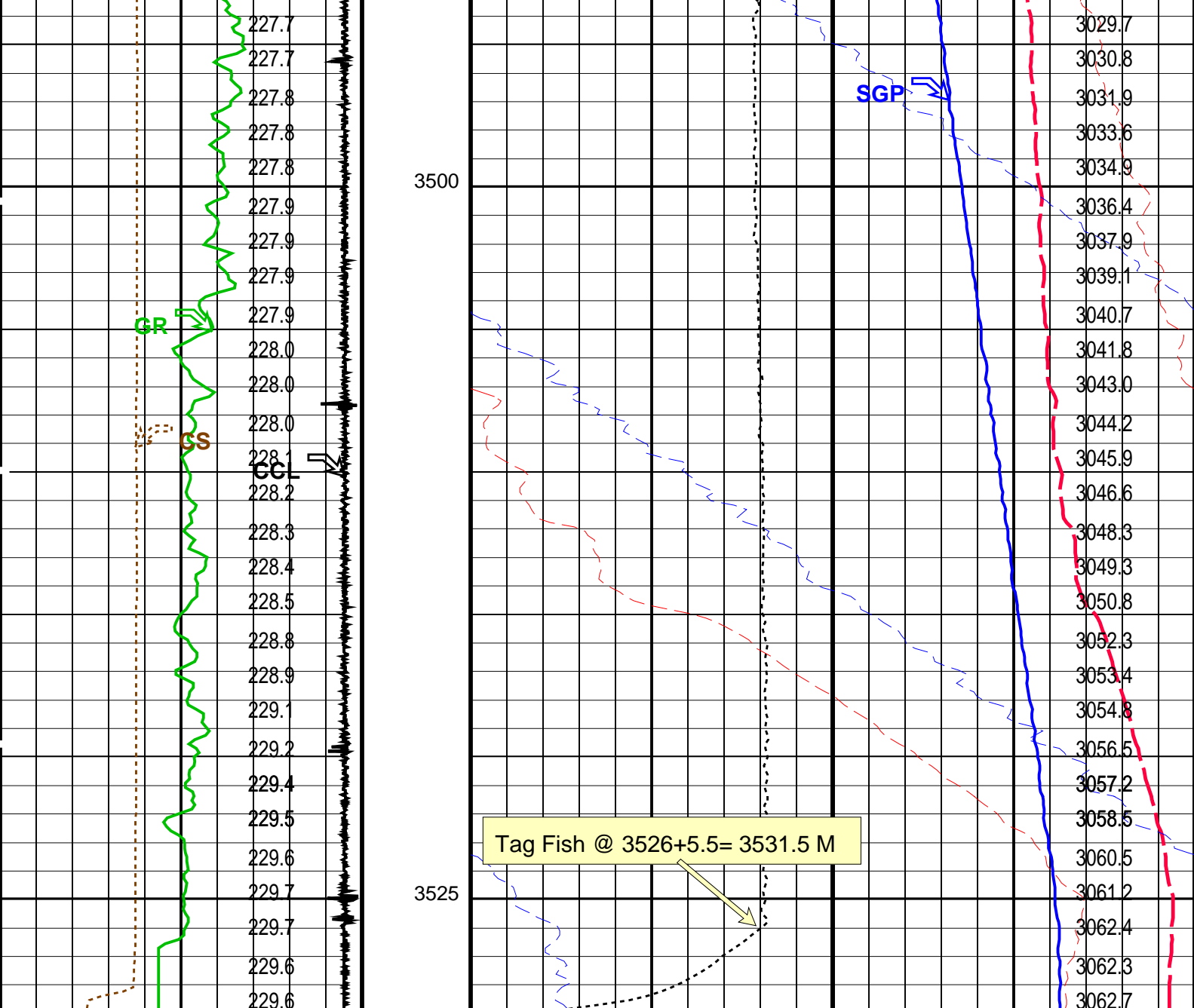
PIP SUMMARY

		Temperature (TEMP_MWPT) (DEGF)
CCL From CCL to T1		
Gamma Ray (GR) (GAPI)		
0		2000
Casing Collar Locator (CCL)		
-19	(----	1
Cable Speed (CS) (F/HR)		
0		5000



Temperature (TEMP_MWPT) (DEGF)		0	2
Strain Gauge Pressure (SGP) (PSIA)		0	20
Tension (TENS) (LBF)		500	2500
Temperature (TEMP_MWPT) (DEGF)		220	230
Strain Gauge Pressure (SGP) (PSIA)		2900	3100





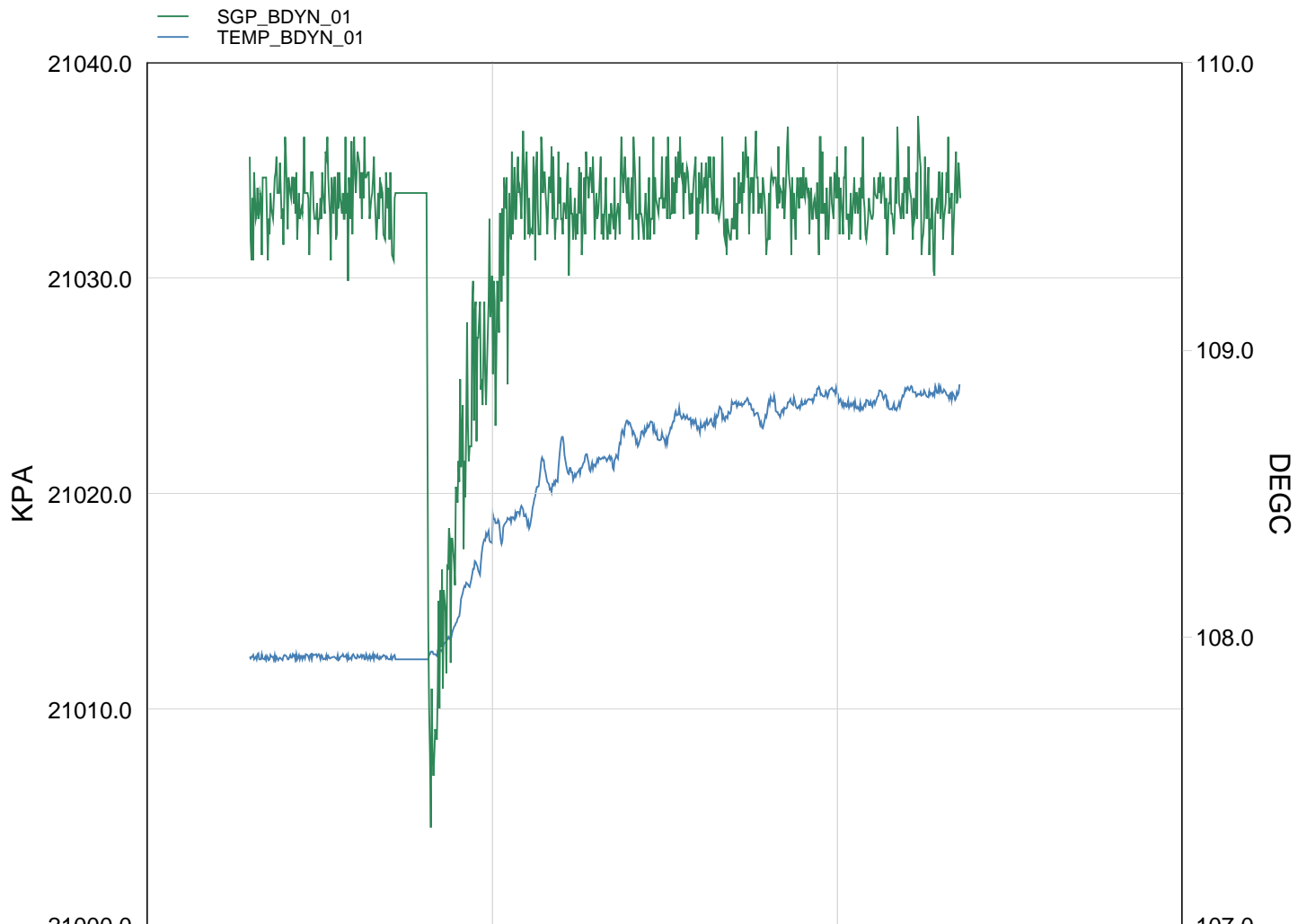
PIP SUMMARY

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
DO	System and Miscellaneous	-0.1	M
PP	Depth Offset for Playback	RECOMPUTE	
Playback Processing			
Format: MWP		Vertical Scale: 1:200	Graphics File Created: 01-Feb-2008 20:02
OP System Version: 15C0-309			
MCM			
MWPT-CA	SRPC-3546-Q1_2008_OP15	MWGT-AA	SRPC-3546-Q1_2008_OP15
Input DLIS Files			
DEFAULT	PERFO_042LUP	FN:41	PRODUCER 01-Feb-2008 19:33 3529.0 M 3258.8 M
Output DLIS Files			
DEFAULT	PERFO_042PUP	FN:46	PRODUCER 01-Feb-2008 20:02
Schlumberger			
Gun # 1 Fired @ 3525m to 3527.5m MDKB			
MAXIS Field Log			



TIME	Degf	PSIA
5535.0	226.24	3050.538
5580.0	226.28	3050.783
5625.0	226.26	3050.599
5670.0	226.29	3050.847
5715.0	226.26	3050.719
5760.0	226.42	3048.560
5805.0	227.13	3049.874
5850.0	227.37	3050.537
5895.0	227.46	3050.566
5940.0	227.71	3050.723
5985.0	227.64	3050.717
6030.0	227.77	3050.560
6075.0	227.80	3051.014
6120.0	227.85	3050.894
6165.0	227.87	3050.706
6210.0	227.90	3050.751
6255.0	227.92	3050.449



Gun #1 Shoot Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-25a

Output DLIS Files

DEFAULT

PERFO_034LUP

FN:33

PRODUCER

01-Feb-2008 16:30

3523.6 M

3467.4 M

OP System Version: 15C0-309
MCM

MWP_GUN

SRPC-3546-Q1_2008_OP15

MWPT-CA

SRPC-3546-Q1_2008_OP15

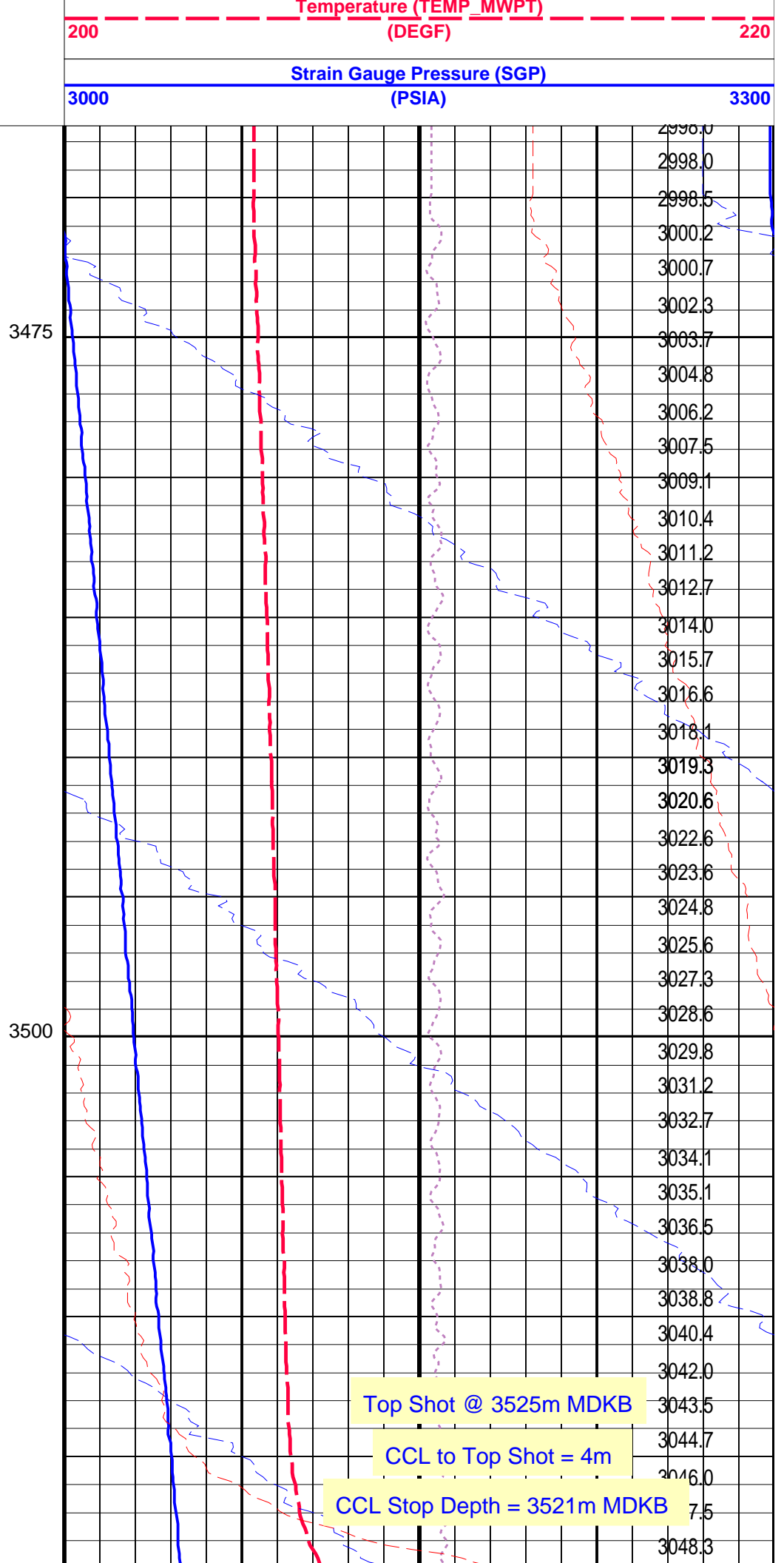
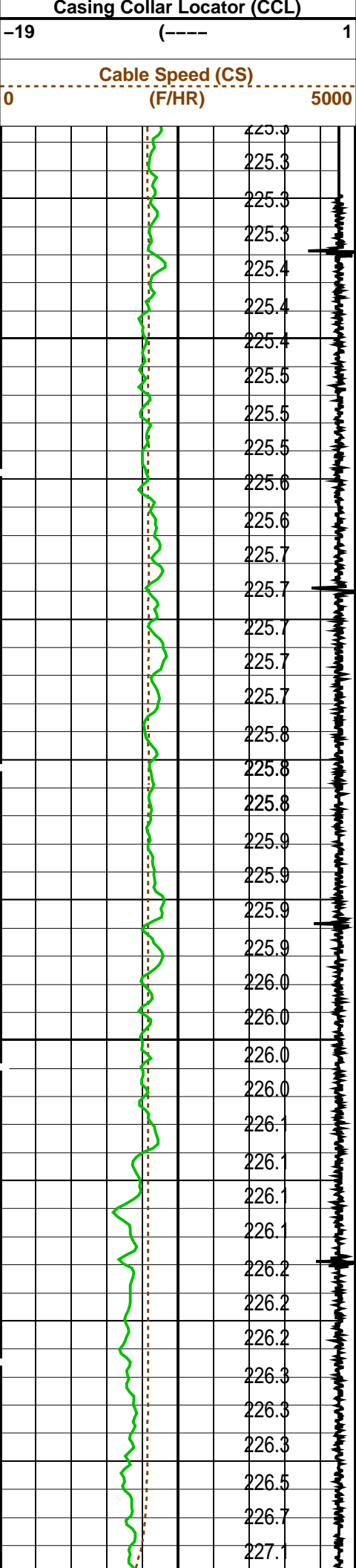
MWGT-AA

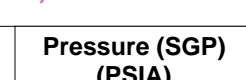
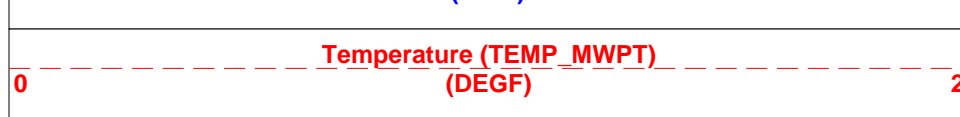
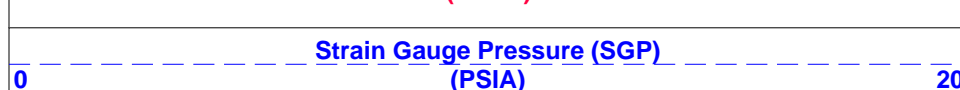
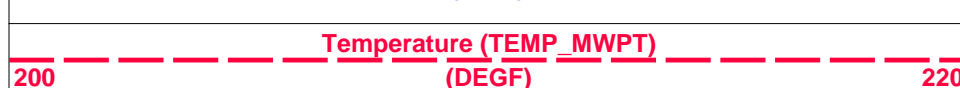
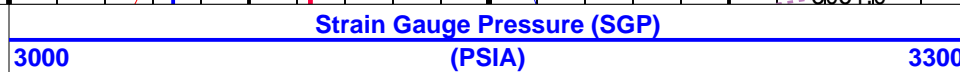
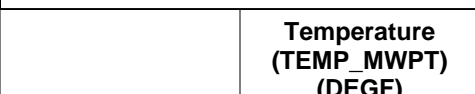
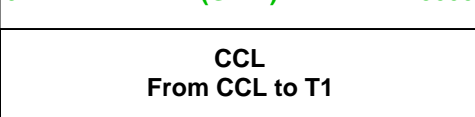
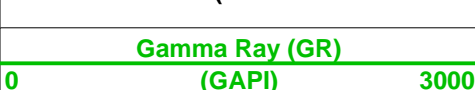
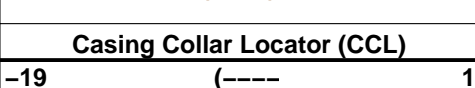
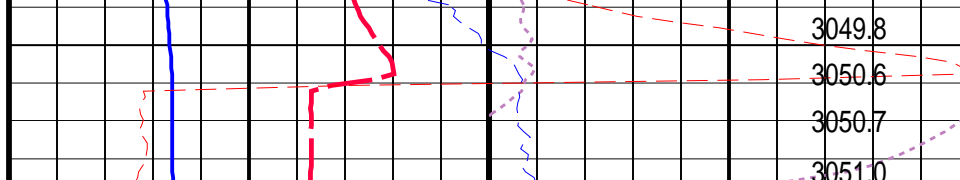
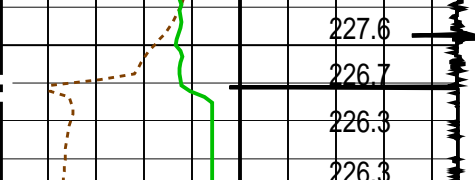
SRPC-3546-Q1_2008_OP15

PIP SUMMARY

Time Mark Every 60 S

		Pressure (SGP) (PSIA)	
Temperature (TEMP_MWPT) (DEGF)		Tension (TENS) (LBF)	
		0	2000
CCL From CCL to T1		Temperature (TEMP_MWPT) (DEGF)	
		0	2
Gamma Ray (GR) (GAPI)		Strain Gauge Pressure (SGP) (PSIA)	
0	3000	0	20





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: 01-Feb-2008 16:30

OP System Version: 15C0-309

MCM

MWP_GUN	SRPC-3546-Q1_2008_OP15	MWPT-CA	SRPC-3546-Q1_2008_OP15
MWGT-AA	SRPC-3546-Q1_2008_OP15		

Output DLIS Files

DEFAULT	PERFO 034LUP	FN:33	PRODUCER	01-Feb-2008 16:30
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Gun #1 Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-25

Output DLIS Files

DEFAULT	PERFO_033LUP	FN:32	PRODUCER	01-Feb-2008 16:10	3501.4 M	3438.8 M
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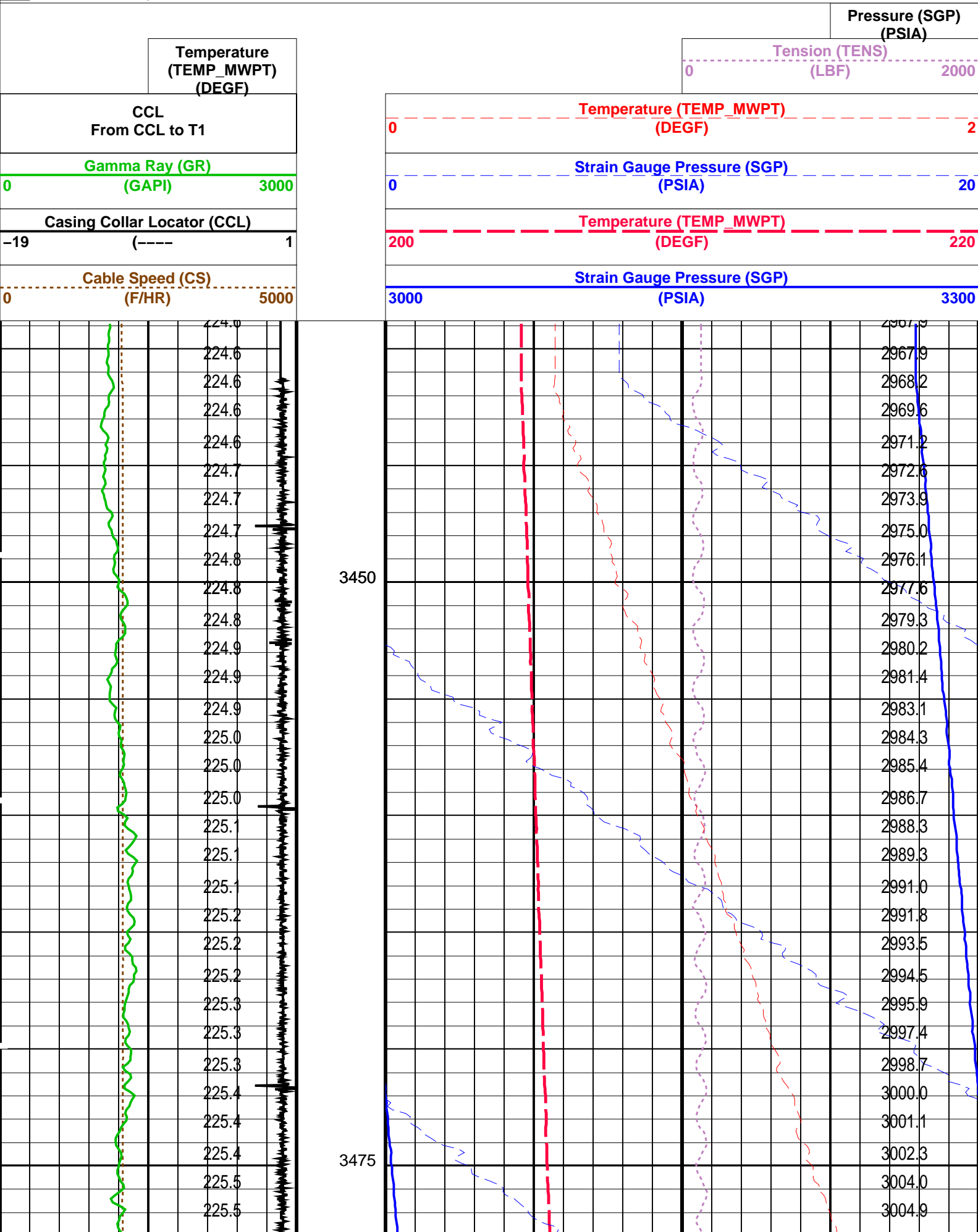
OP System Version: 15C0-309

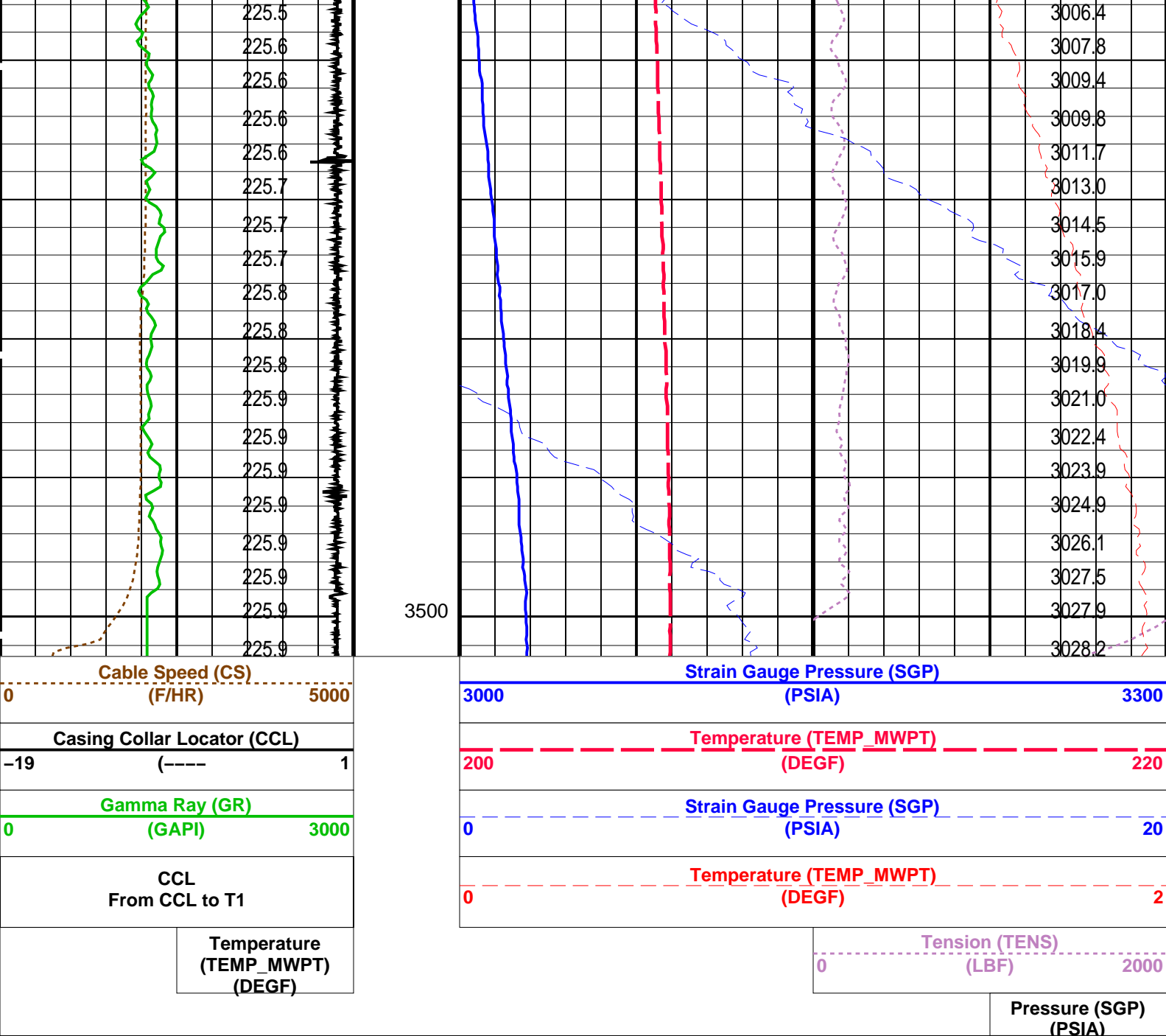
MCM

MWP GUN	SRPC-3546-Q1 2008 OP15	MWPT-CA	SRPC-3546-Q1 2008 OP15
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PIP SUMMARY

Time Mark Every 60 S





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: 01-Feb-2008 16:10	
OP System Version: 15C0-309			
MCM			
MWP_GUN	SRPC-3546-Q1_2008_OP15	MWPT-CA	SRPC-3546-Q1_2008_OP15
MWGT-AA	SRPC-3546-Q1_2008_OP15		
Output DLIS Files			
DEFAULT	PERFO_033LUP	FN:32 PRODUCER	01-Feb-2008 16:10

Company: Esso Australia Pty Ltd.

Well: A-25a

Input DLIS Files

DEFAULT	PSP_018LUP	FN:17	PRODUCER	01-Feb-2008 10:37	3534.0 M	3044.2 M
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Output DLIS Files

DEFAULT	PSP_019PUP	FN:18	PRODUCER	01-Feb-2008 11:32	3534.6 M	3042.8 M
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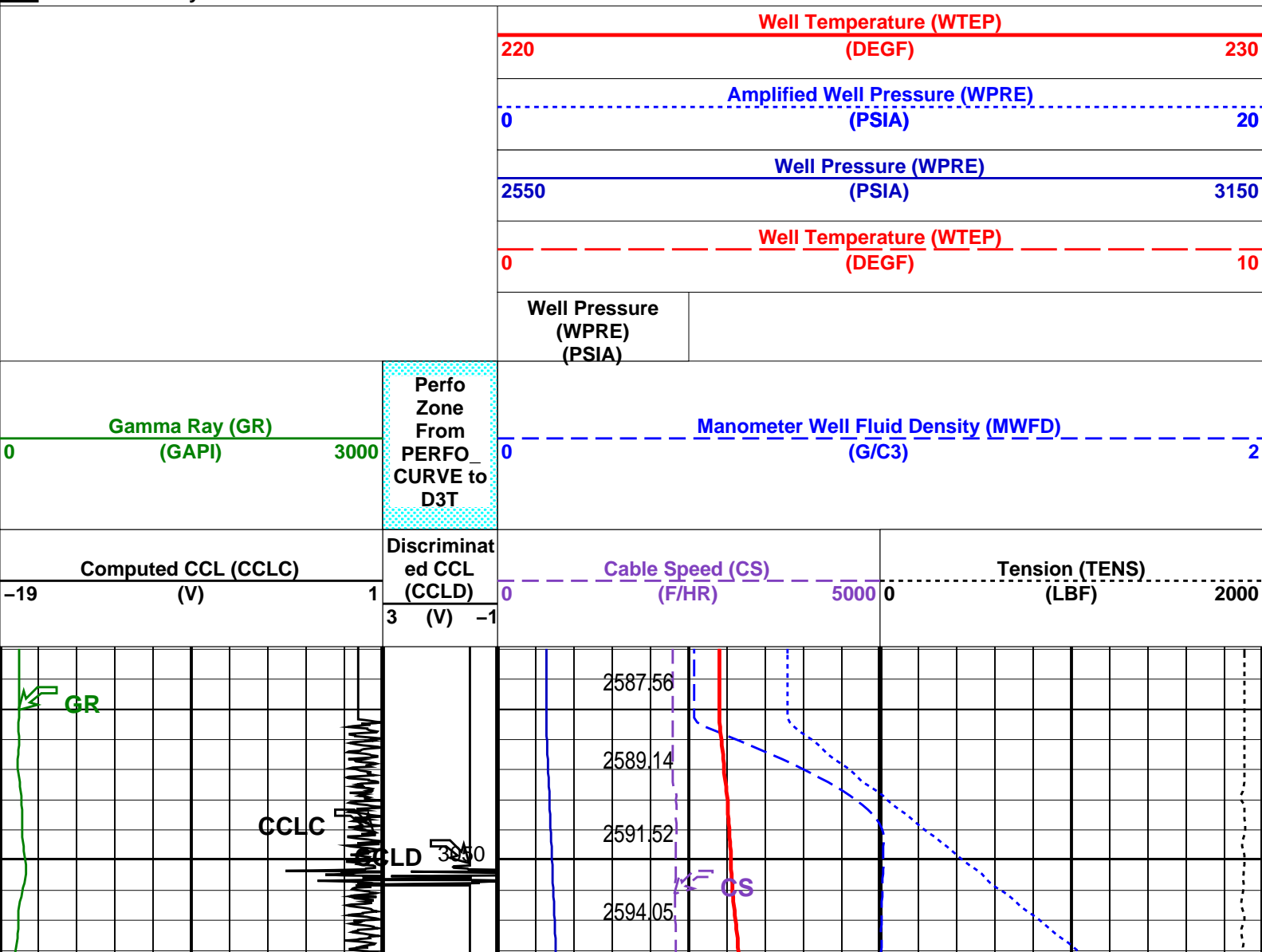
OP System Version: 15C0-309

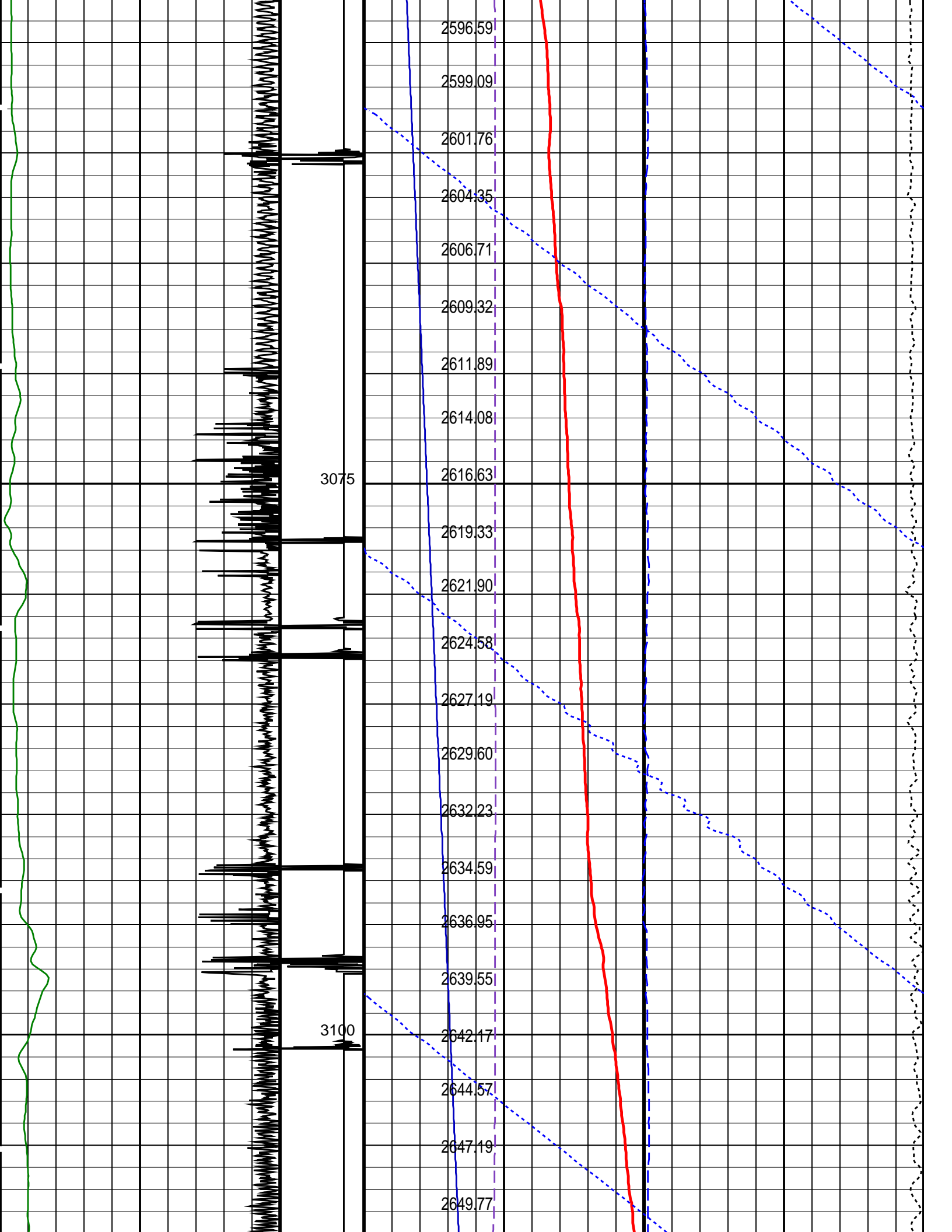
MCM

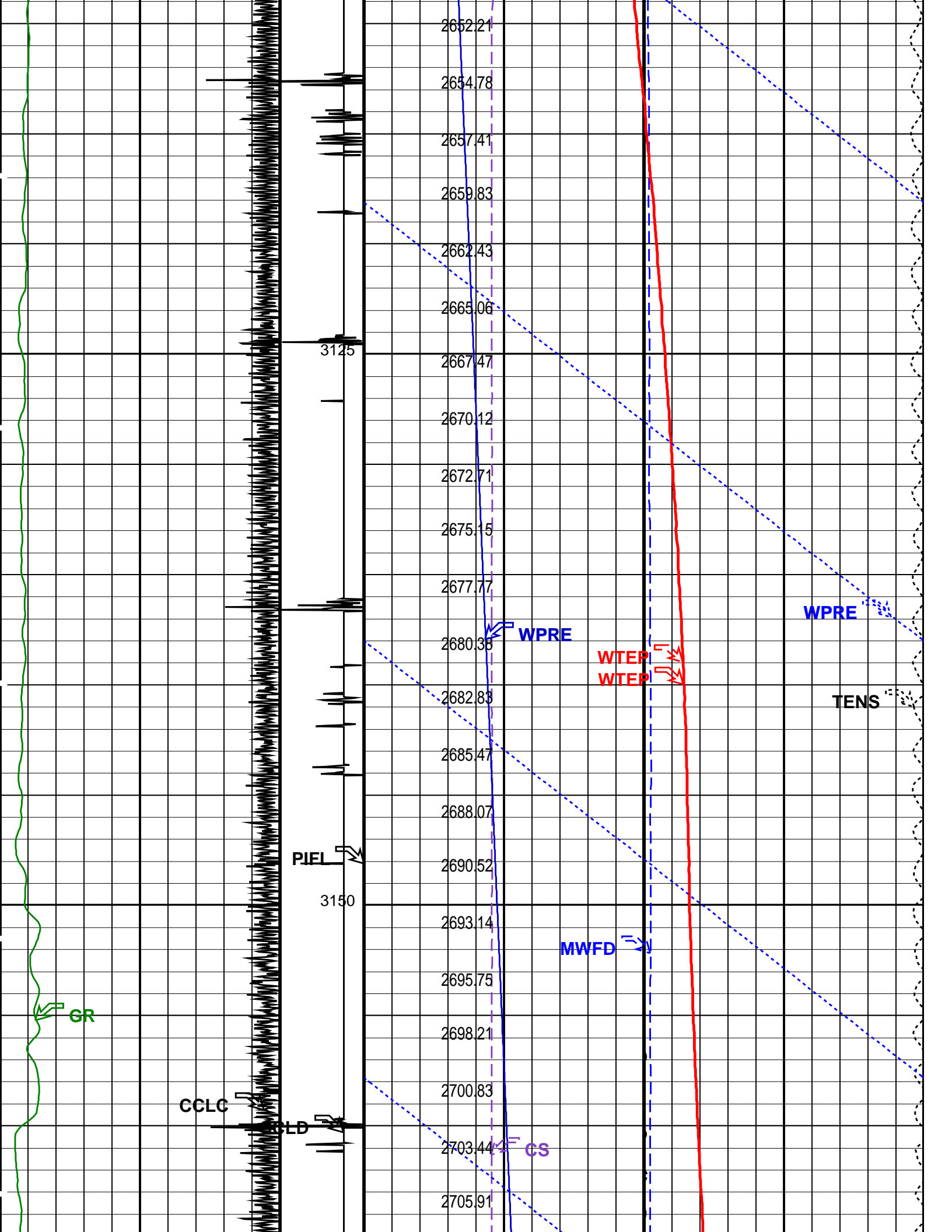
PSPT-B SRPC-3546-Q1_2008_OP15

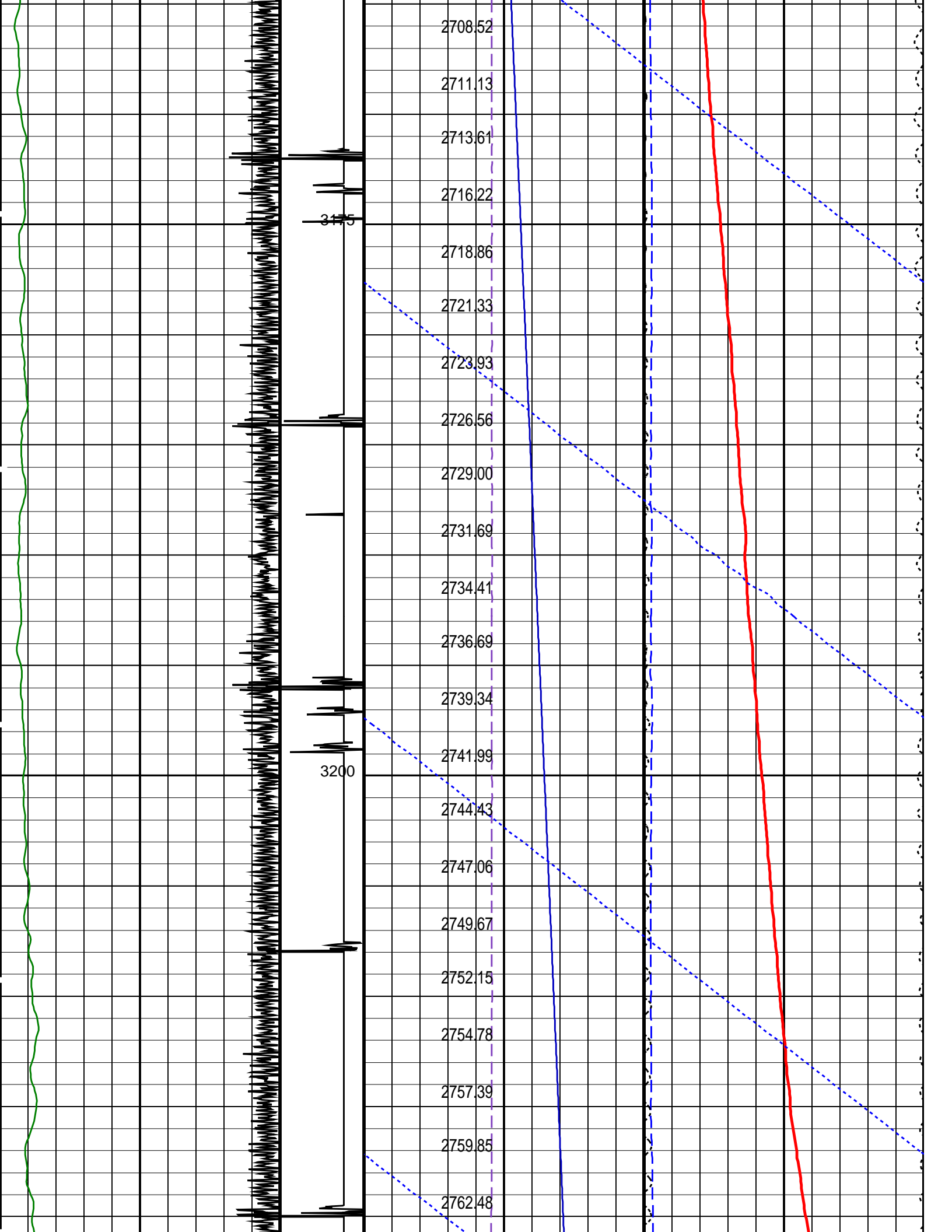
PIP SUMMARY

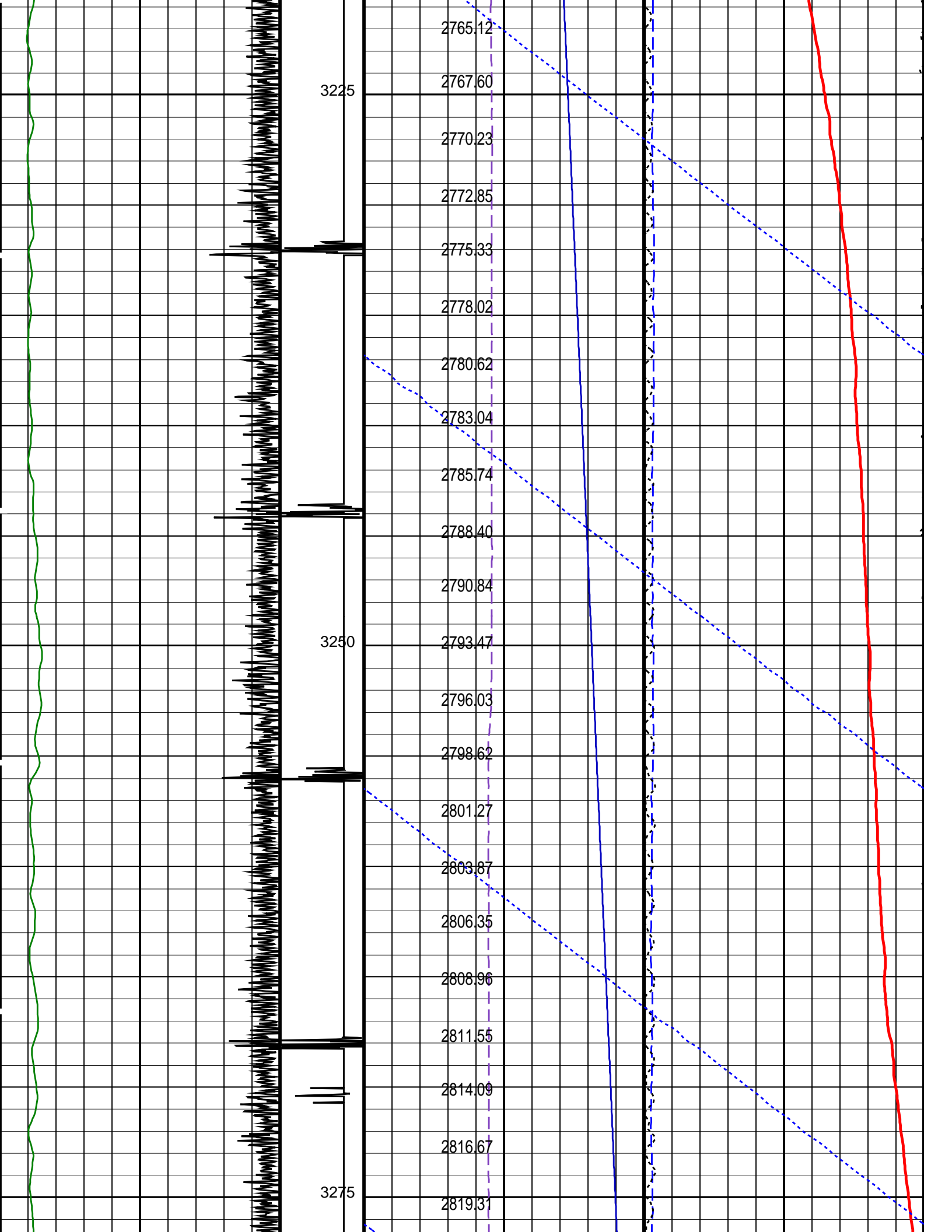
Time Mark Every 60 S

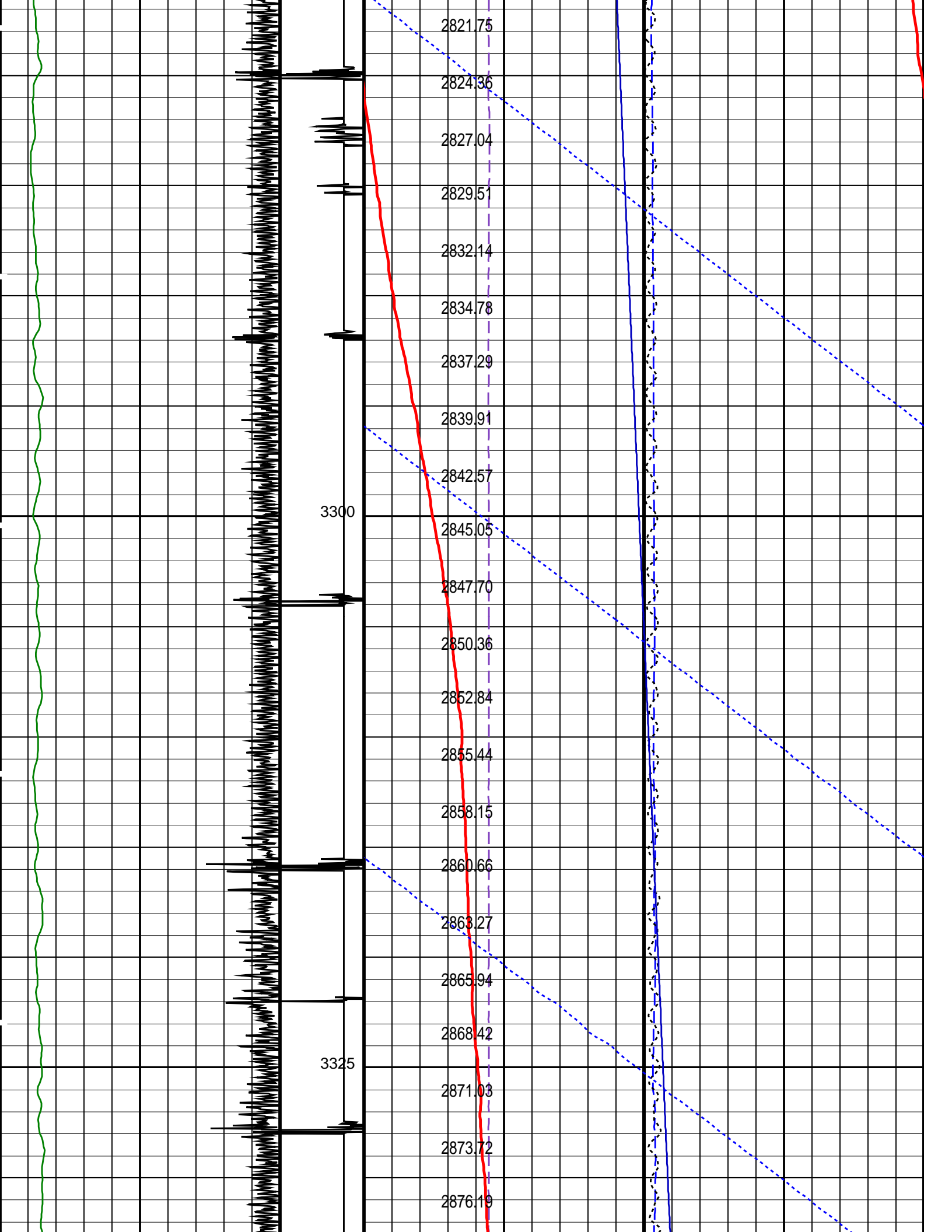


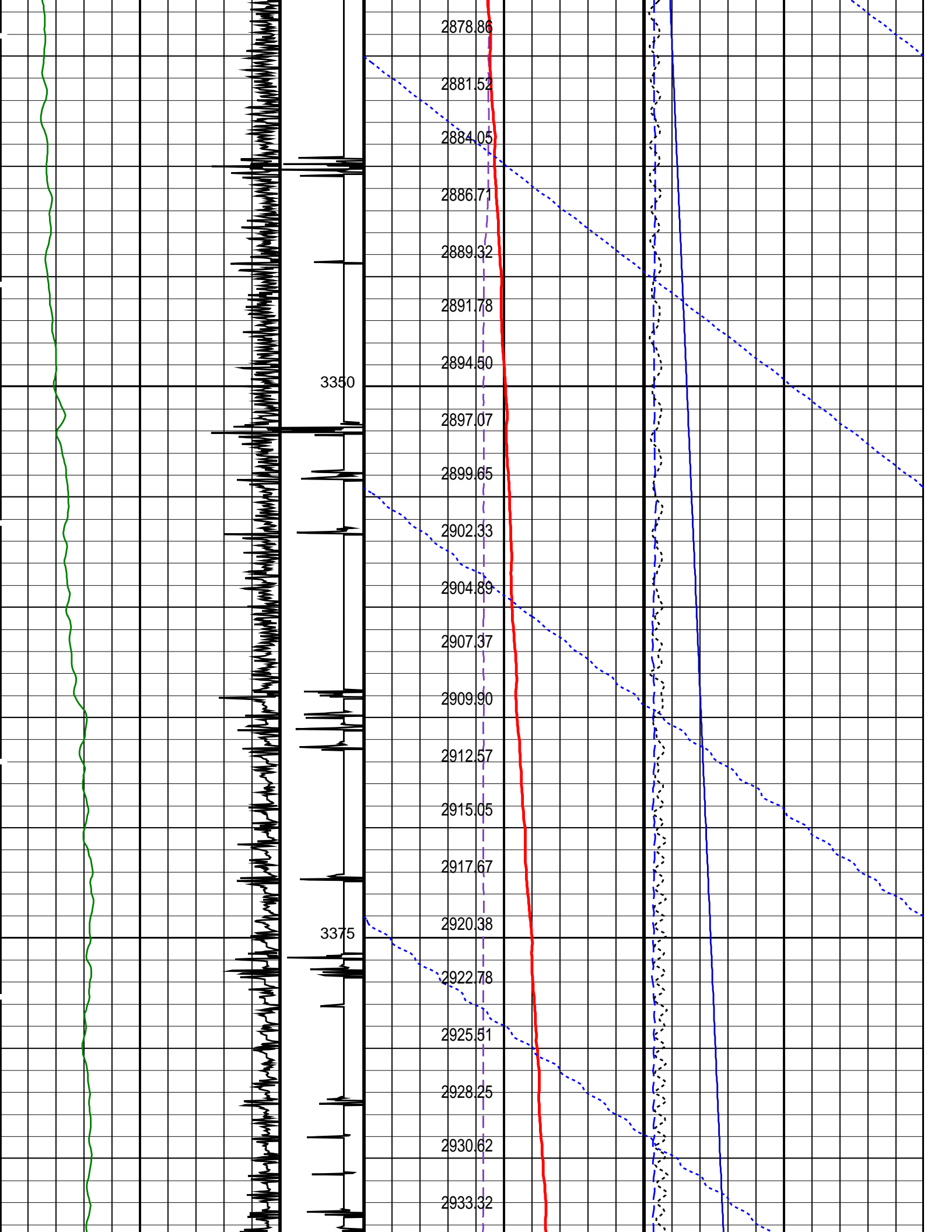


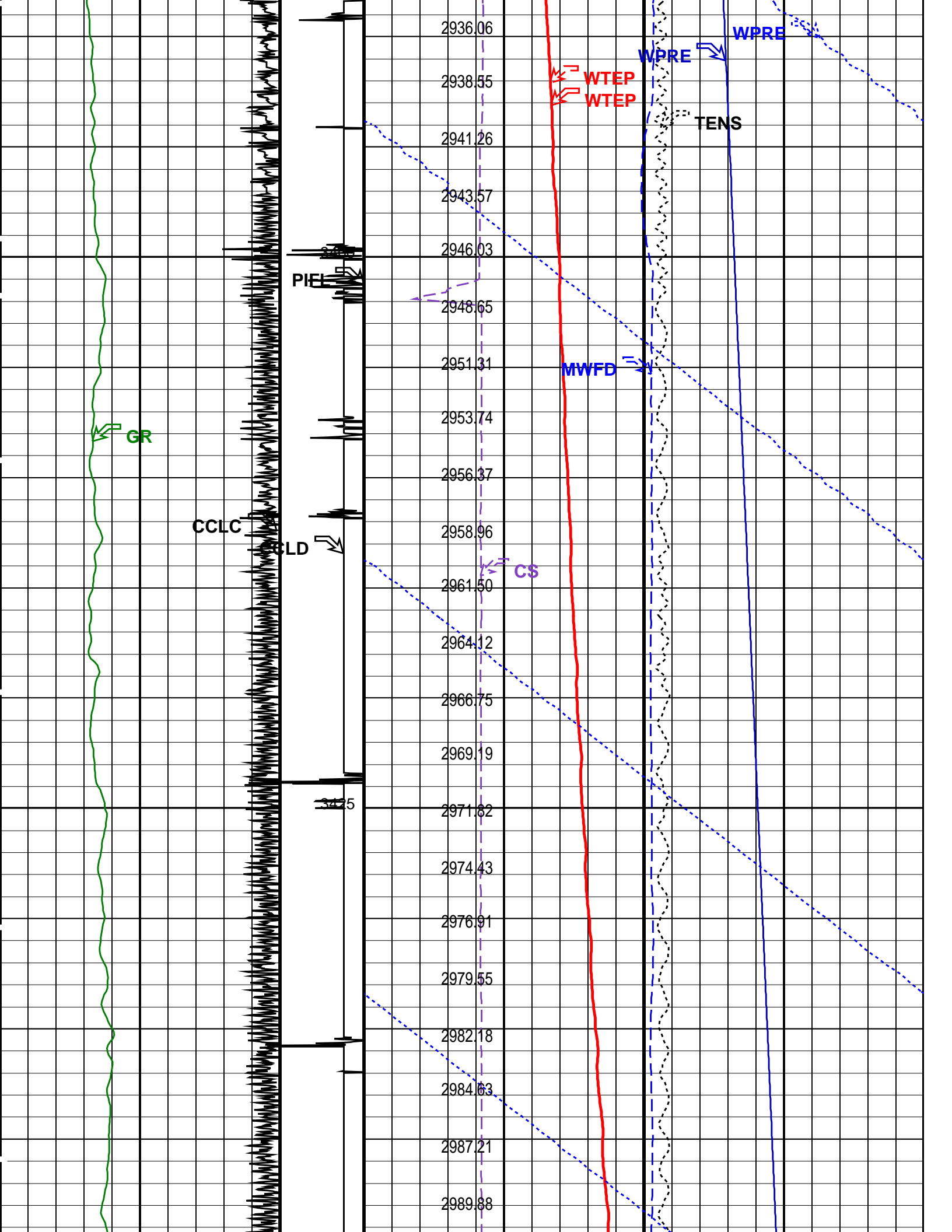


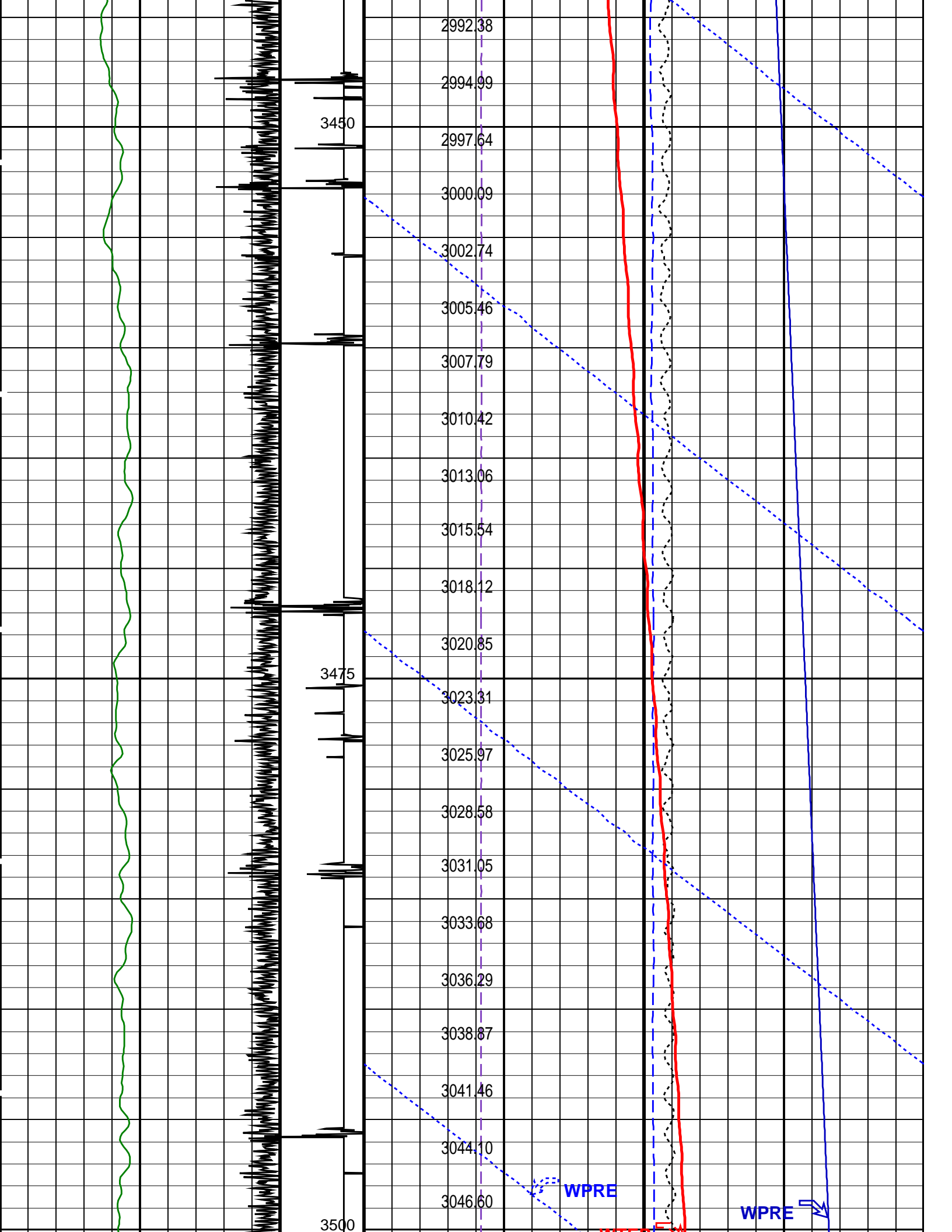


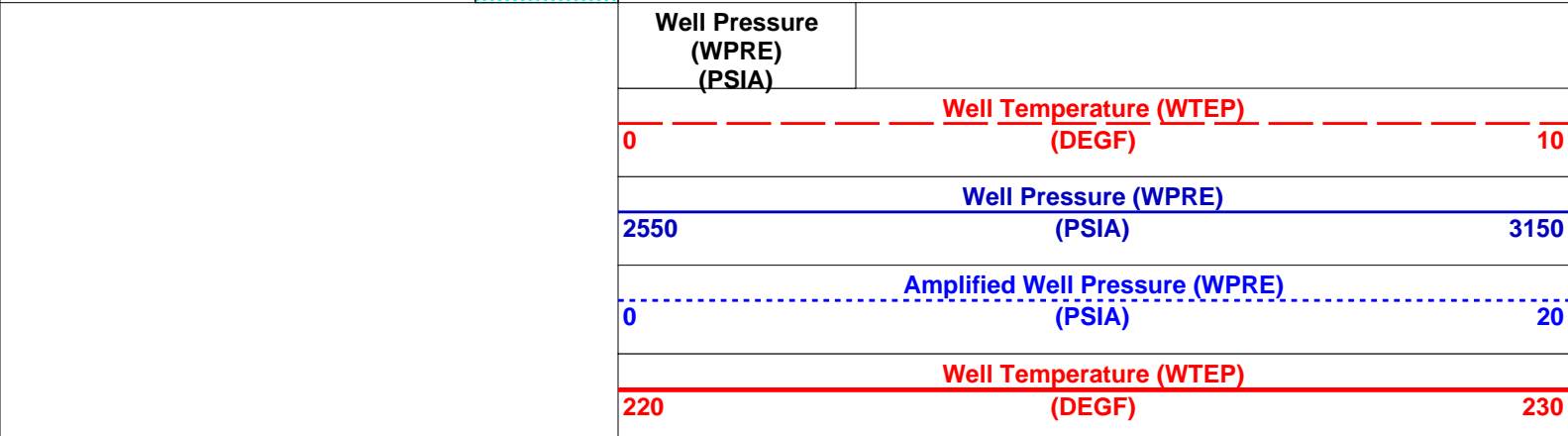
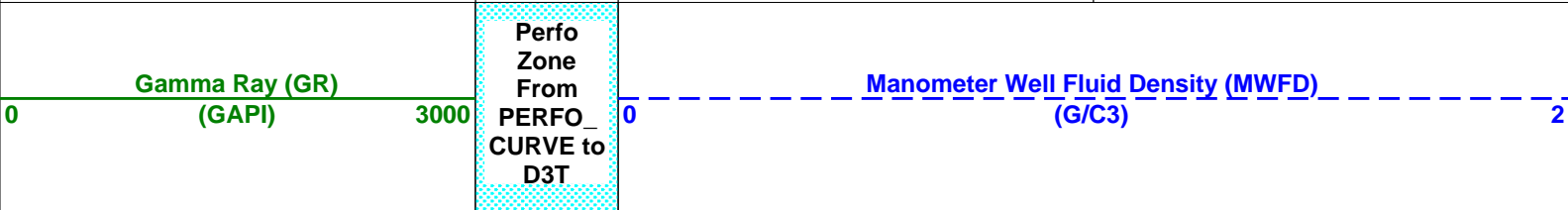
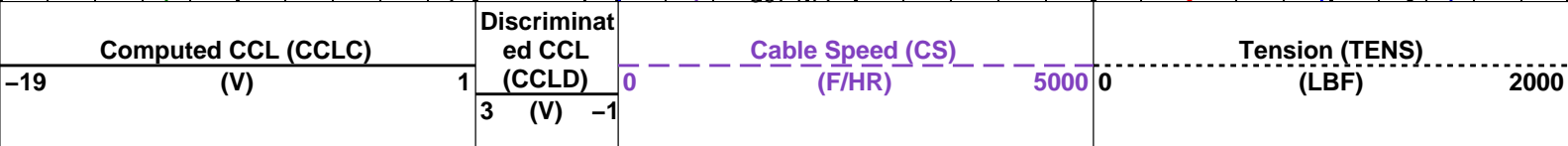
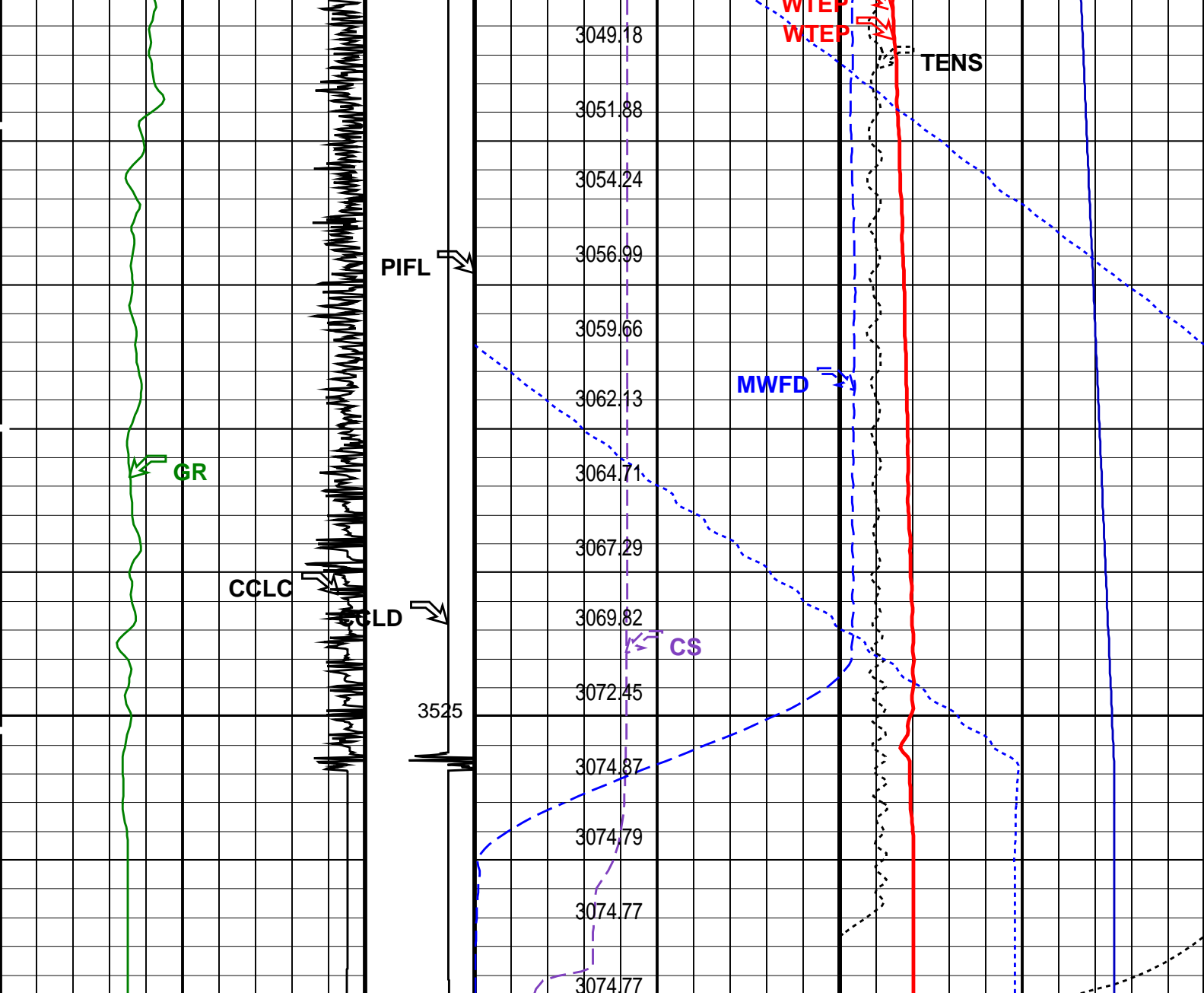












<div><div></div>Time Mark Every 60 S</div>		PIP SUMMARY			
Format: PSP_1		Vertical Scale: 1:200		Graphics File Created: 01-Feb-2008 11:32	
OP System Version: 15C0-309					
MCM					
PSPT-B		SRPC-3546-Q1_2008_OP15			
Parameters					
DLIS Name		Description		Value	
GDEV	PSPT-B: Production Services Logging Platform				
	Average Angular Deviation of Borehole from Normal		46		DEG
DO	System and Miscellaneous				
	Depth Offset for Playback		0.6		M
PP	Playback Processing		NORMAL		
Input DLIS Files					
DEFAULT	PSP_018LUP	FN:17	PRODUCER	01-Feb-2008 10:37	3534.0 M 3044.2 M
Output DLIS Files					
DEFAULT	PSP_019PUP	FN:18	PRODUCER	01-Feb-2008 11:32	
Company: Esso Australia Pty Ltd.					
Schlumberger					
Well:		A-25a			
Field:		Flounder			
Rig:		Crane			
Country:		Australia			
2-1/8" Phased Powerjet MWPT					
Perforation Record					
7-5/8" Posiset Plug Setting Record					