

Company: Esso Australia Pty Ltd.

Well: A-13a
Field: Bream A
Rig: Prod4 / Crane
Country: Australia

2 1/8" Powerjet MWPT Perforation Record
4.5" Posiset Plug Setting Record
Cement Dump Record

Rig: Prod4 / Crane
Field: Bream A
Location: Gippsland
Well: A-13a
Company: Esso Australia Pty Ltd.

LOCATION			
Gippsland Basin Bass Strait	Permanent Datum:	M.S.L. _____	
	Log Measured From:	D.F. _____	
	Drilling Measured From:	D.F. _____	
State: Victoria	Max. Well Deviation 65 deg	Longitude 147 46'15"E	Latitude 038 30'04"S

Logging Date	31-Oct-2009			
Run Number	2 through 6			
Depth Driller	2578 m			
Schlumberger Depth	2575 m			
Bottom Log Interval	2572 m			
Top Log Interval	2200 m			
Casing Fluid Type	Production Fluids			
Salinity				
Density				
Fluid Level	377 m			
BIT/CASING/TUBING STRING				
Bit Size	6.000 in			
From	2455 m			
To	2733 m			
Casing/Tubing Size	4.500 in			
Weight	12.6 lbm/ft			
Grade	L-80			
From	2291 m			
To	2682 m			
Maximum Recorded Temperatures	206 degF			
Logger On Bottom	Time	31-Oct-2009		14:10
Unit Number	Location	889	AUSL / PROD 4	
Recorded By	S Gilbert.			
Witnessed By	B White			

			Run 1
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation			65 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: 22-OCT-2009 3:04:54

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:	207505
Calibration Date:	13-Oct-2009	Calibration Date:	21-Oct-2009	Length:	6421 M
Calibrator Serial Number:	30	Calibrator Serial Number:	854	<div>Conveyance Method: Wireline</div> <div>Rig Type: Rigless</div>	
Calibration Cable Type:	2-32ZT	Number of Calibration Points:	9		
Wheel Correction 1:	0	Calibration RMS:	454		
Wheel Correction 2:	-2	Calibration Peak Error:	281		

Depth Control Parameters

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

Depth Control Remarks

1. IDW used as primary depth control
2. Z Chart used as secondary depth control.
3. Full pressure gear used in rig up , surface Zero check incorrect.
4.
5.
6.

DISCLAIMER

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OTHER SERVICES1
OS1: RST Survey

REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil composite supplied with logging program.
Maximum well deviation = 32deg @ 1968m MDKB.
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572m MDKB and then dump approx 1.2m of cement on top .
Perforation Zone = 2564 m to 2566.5 m MDKB

Top Shot @ 2564 m MDKB					
CCL to Top Shot = 4 m					
CCL Stop Depth = 2560 m MDKB					
CCL to Bottom of Dummy Plug = 3.15m					
4.5" Posiset Plug top of Seal Set @ 2572m MDKB					
CCL to Top of Seal = 6.65 m					
CCL stop Depth = 2565.35m MDKB					
1.2m of Cement dumped in 1 Run.					
Crew : J Annear , A Pratt					
RUN 1 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			B297-00017 17C0-154 377 m		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
MWPM-AA			MPBM		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
SWBS-B 789		12.39	SWBS-B 785		13.57
SWBS-B 788		11.70	SWBS-B 786		12.88
SWBS-B 787		11.01	SWBS-B 787		12.20
SWBS-B 786		10.33	SWBS-B 788		11.51
SWBS-B 785		9.64	SWBS-B 789		10.83
SWHS-A 759		8.96	SWHS-A 759		10.14
AH-124 7002		8.63	CCL-PCCL	 CCL Cable Cur Head Volt Tension	TOOL ZERO 9.80
MWGT-AA 24	 MWPG GR — 2.41	8.53	MPSU-BA 20		9.34
MWPG-AA 24			MPSU-BA 20		
MWGH-AA 24					
MWPT-CA 11	 CCL SMWP Pres SMWP Temp Tension — TOOL ZERO	7.55			
MWPH-AA 94					
MWPS-AA 11					

Gas Lift Mandrel	3.500		2004.0						
Nipple	3.500		2252.0						
Packer	7.000	3.500	2268.0						
Flow Coupling	4.500	3.500	2292.0			2291.0	4.500		Casing String
Tubing Bottom	3.500		2298.4			2291.0	7.000		Liner Hanger
Nipple	3.500		2295.0			2455.3	7.000	4.500	Casing Shoe
Bridge Plug	4.500	0.000	2578.0			2573.4			Perforation Zone
						2582.0			Perforation Zone
Bridge Plug	4.500	0.000	2586.0						
Bridge Plug	4.500	0.000	2588.0						
Bridge Plug	4.500	0.000	2597.0			2592.5			Perforation Zone
						2599.5			Perforation Zone
Bridge Plug	4.500	0.000	2604.0						
						2608.5			Perforation Zone
Bridge Plug	4.500	0.000	2612.0			2672.0	4.500		Casing Shoe



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
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Log Pass (up)	31-Oct-2009 19:30	000:05	2567.2 - 2530.3	PERFO_018LUP
Station Log	31-Oct-2009 19:42	000:21	2560.0	PERFO_020LTP
Log Pass (up)	31-Oct-2009 20:10	000:06	2567.9 - 2515.7	PERFO_021LUP
Log Pass (up)	31-Oct-2009 22:03	000:26	2575.3 - 2197.5	PERFO_026LUP
Log Pass (down)	1-Nov-2009 0:43	000:07	2262.1 - 2361.1	MPBT_036LDP
Log Pass (down)	1-Nov-2009 0:50	000:16	2363.3 - 2565.3	MPBT_037LDP
Simulated Log	1-Nov-2009 1:10	000:15		MPBT_038LUP
Log Pass (up)	1-Nov-2009 17:59	000:11	2561.8 - 2519.0	PERFO_053LUP
Log Pass (up)	1-Nov-2009 19:44	000:07	2561.5 - 2517.5	PERFO_056LUP



Cement Dump Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_056LUP FN:58 PRODUCER 01-Nov-2009 19:44 2561.5 M 2517.5 M

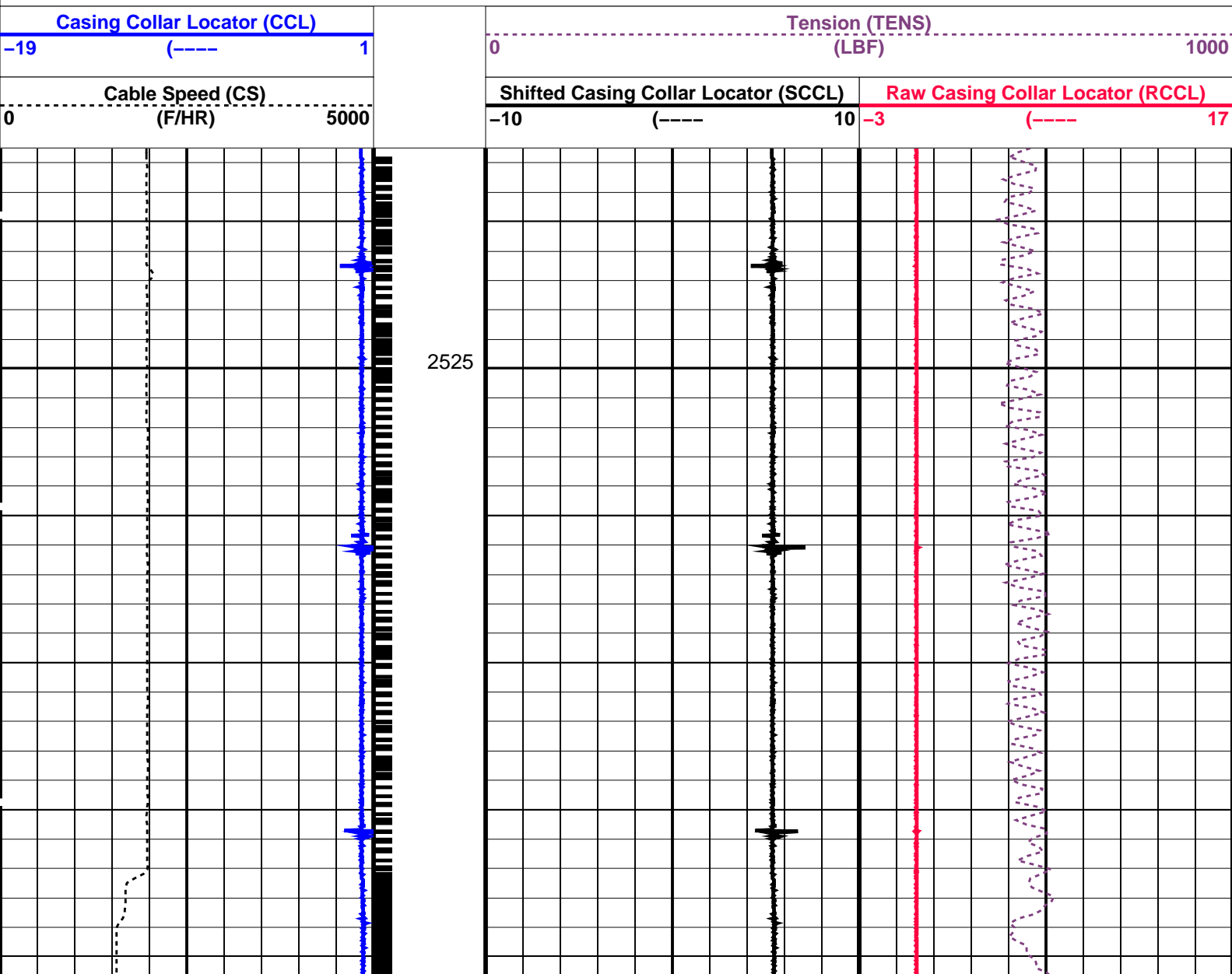
OP System Version: 17C0-154

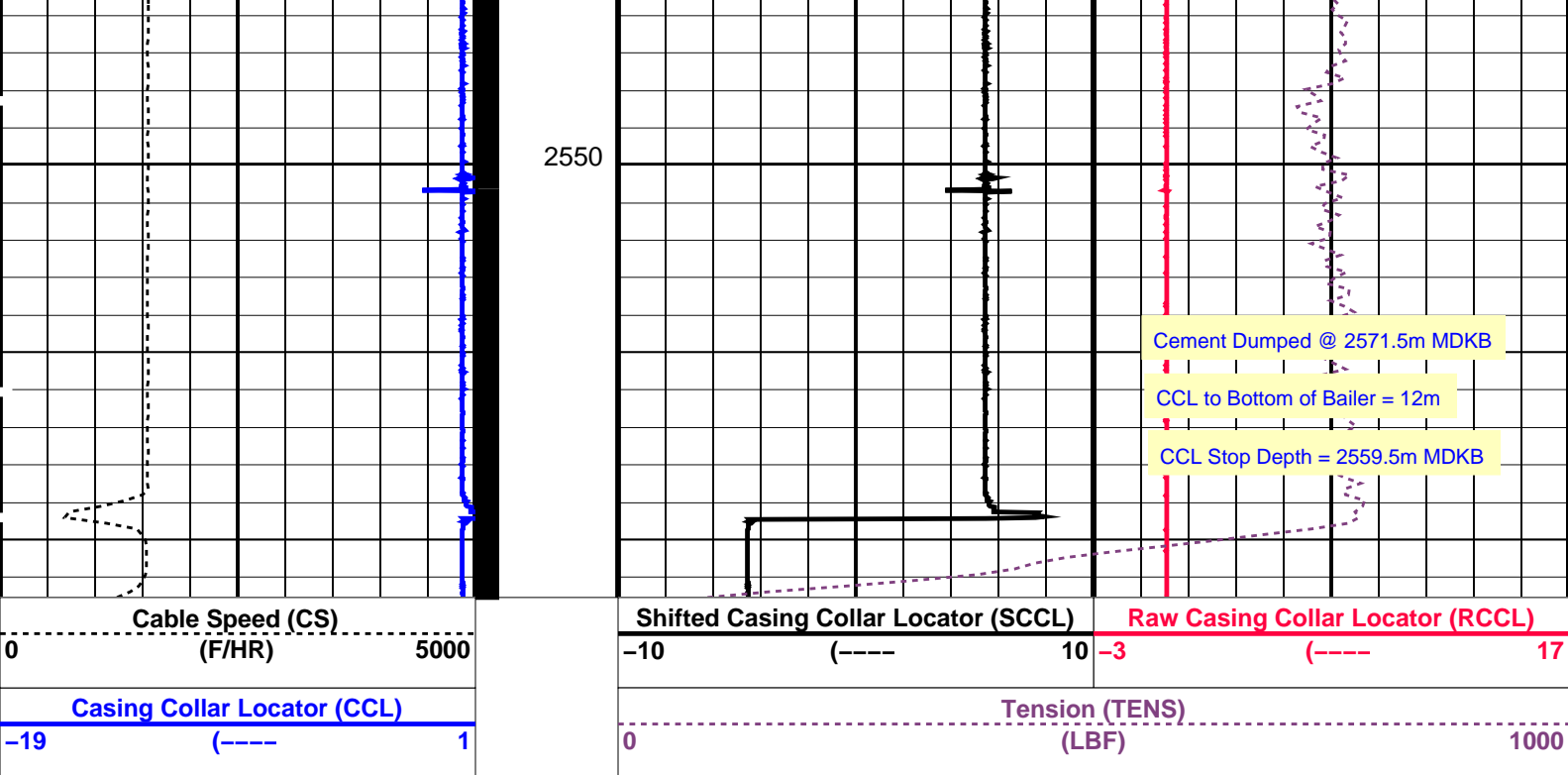
SHM_GUN 17C0-154 CCL-L 17C0-154

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

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_1 Vertical Scale: 1:200 Graphics File Created: 01-Nov-2009 19:44

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

Output DLIS Files

DEFAULT PERFO_056LUP FN:58 PRODUCER 01-Nov-2009 19:44

Schlumberger

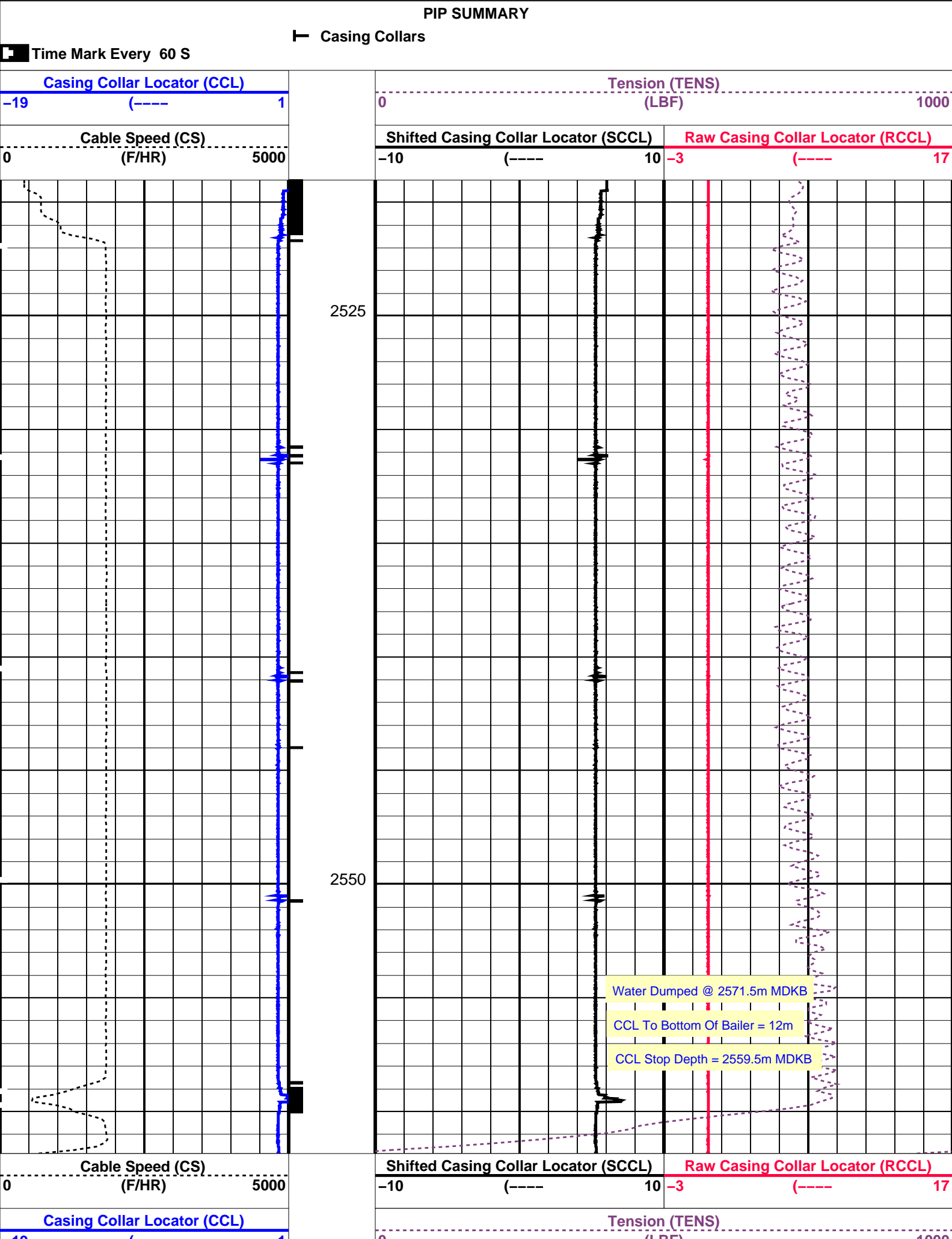
Water Dump Pass

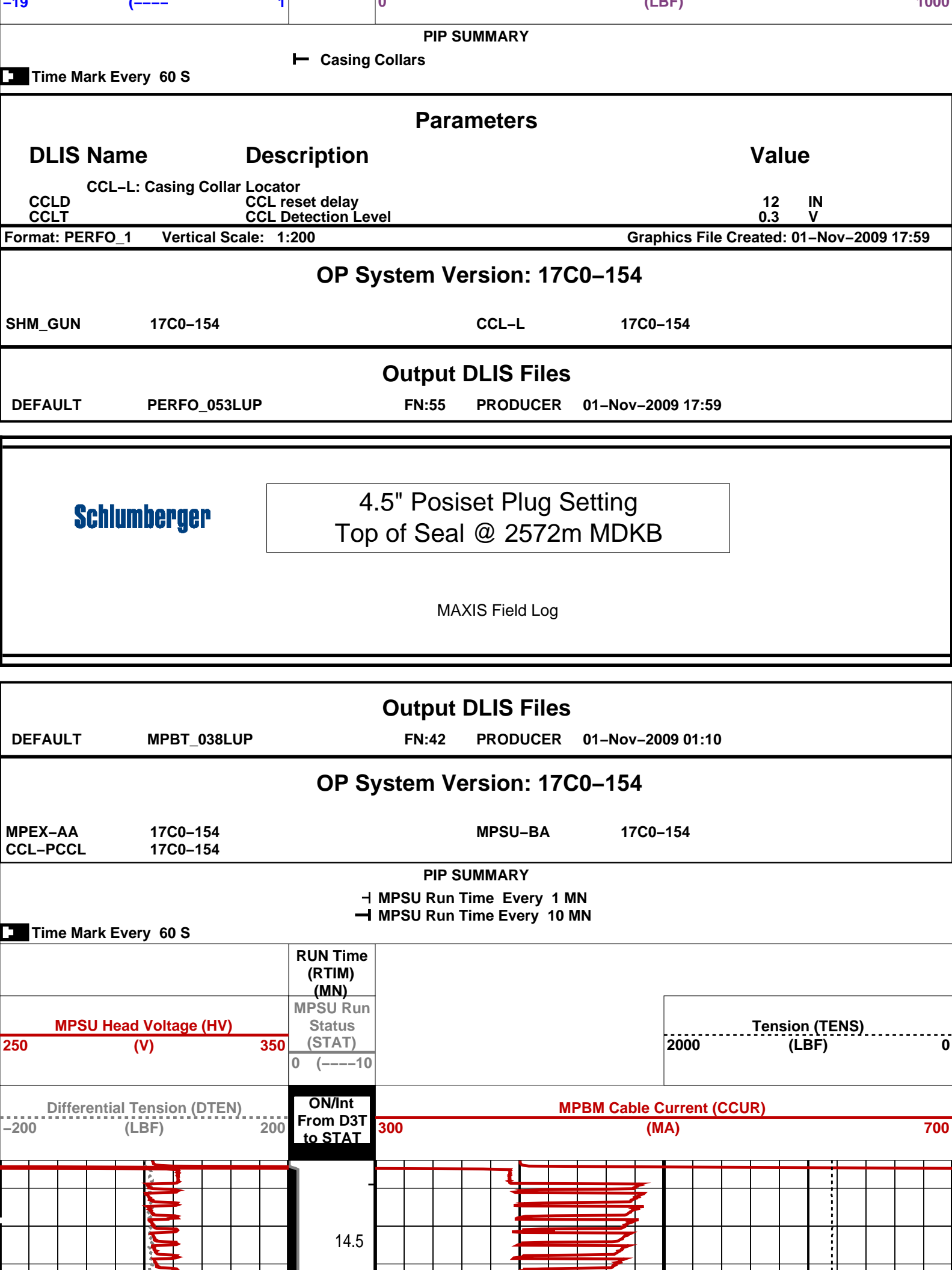
MAXIS Field Log

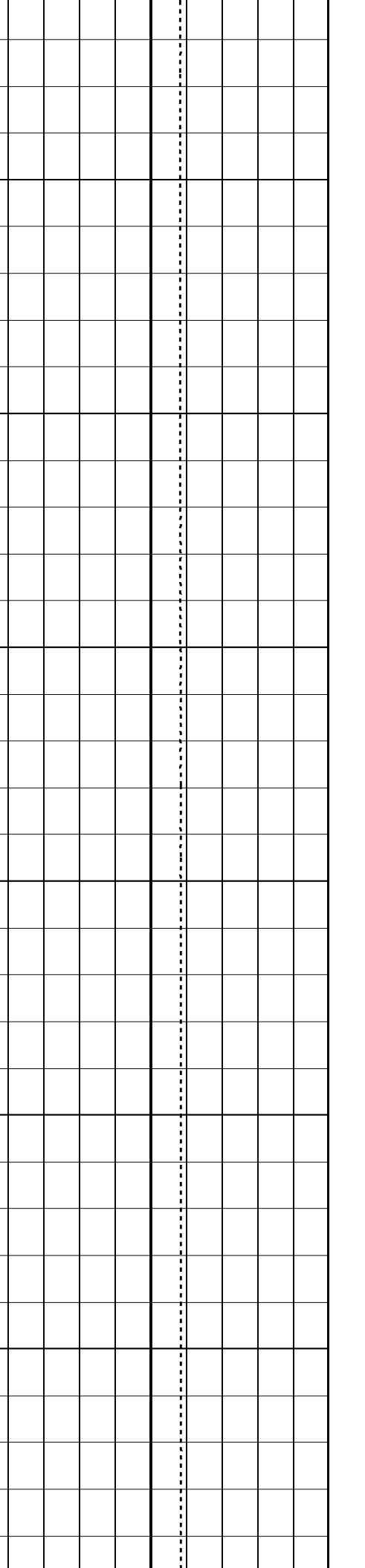
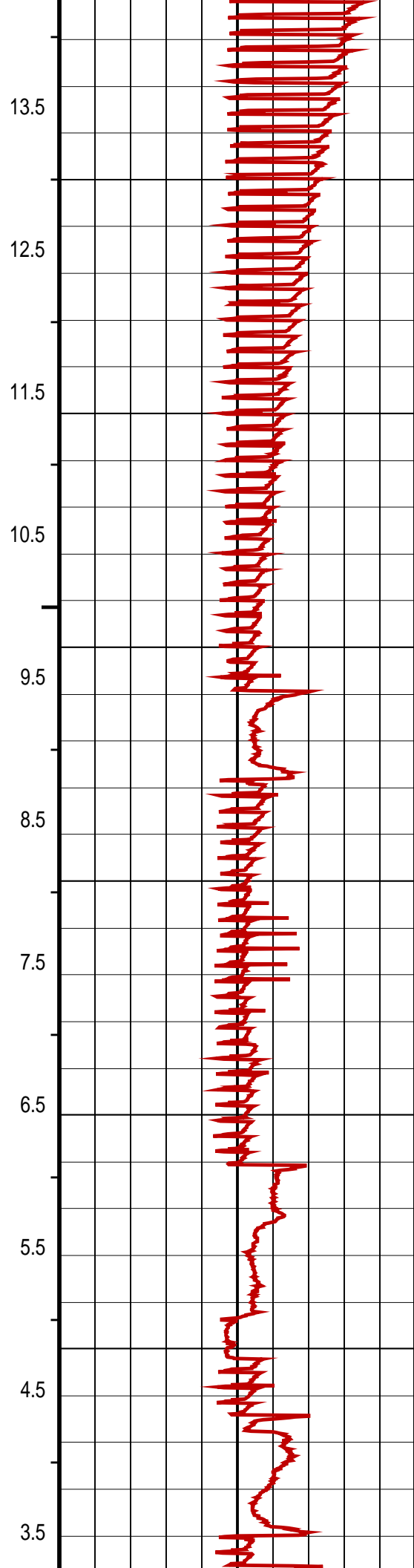
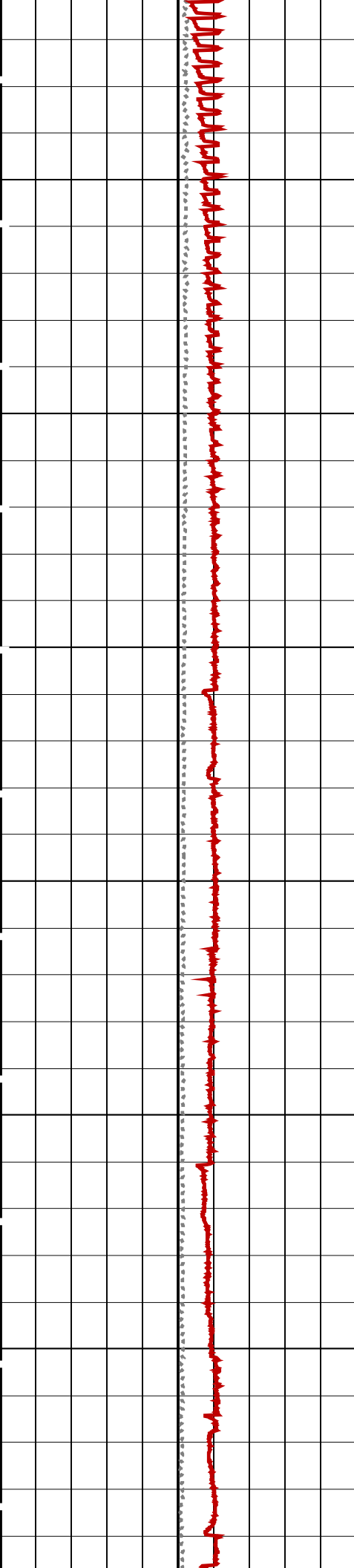
Output DLIS Files

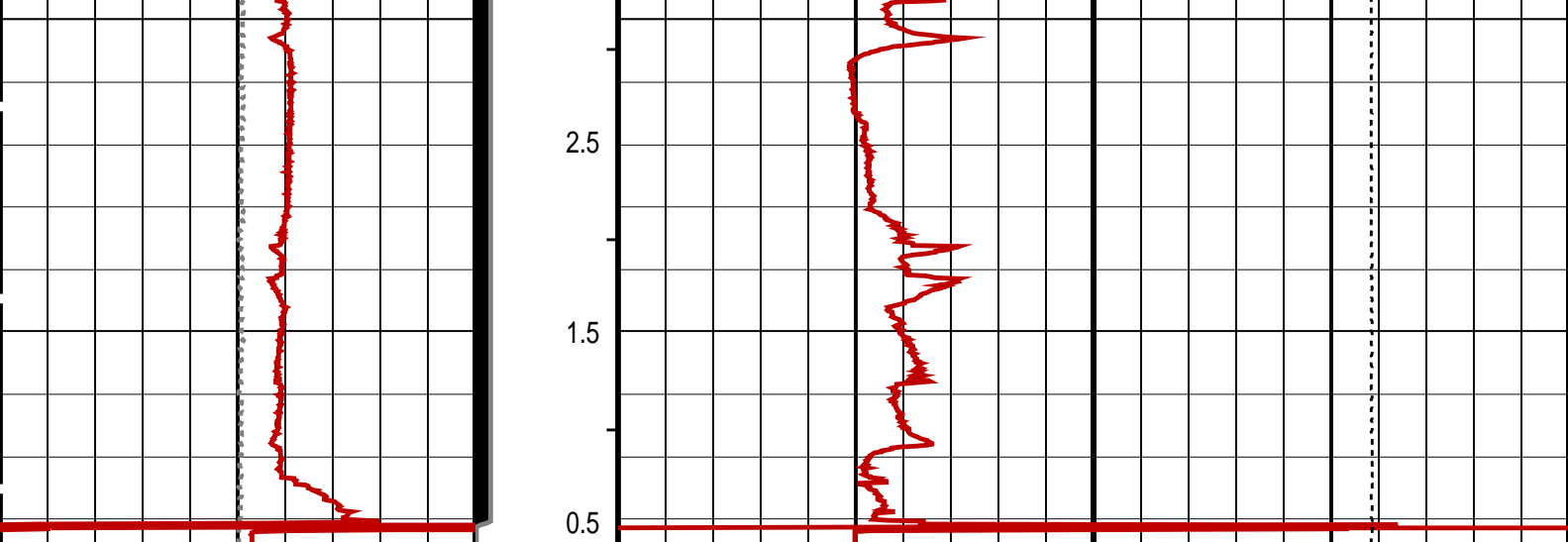
DEFAULT PERFO_053LUP FN:55 PRODUCER 01-Nov-2009 17:59

OP System Version: 17C0-154









Differential Tension (DTEN) (LBF)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR) (MA)	Tension (TENS) (LBF)
-200 200		300 700	2000 0
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
MPSU-BA: MECHANICAL PLUGBACK SETTING UNIT IPUMP	Intensifier Pump	TRUE

Format: MPBT Vertical Scale: 1:600 Graphics File Created: 01-Nov-2009 01:10

OP System Version: 17C0-154

MPEX-AA	17C0-154	MPSU-BA	17C0-154
CCL-PCCL	17C0-154		

Output DLIS Files

DEFAULT	MPBT_038LUP	FN:42	PRODUCER	01-Nov-2009 01:10
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Log Down to Plug Setting Depth
Top of Seal @ 2572m MDKB

MAXIS Field Log

Input DLIS Files

DEFAULT	File: MPBT_040LUP	PRODUCER	01-Nov-2009 01:26	2565 3 M	2363 3 M
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Output DLIS Files

DEFAULT	MPBT_043PUP	FN:45	PRODUCER	01-Nov-2009 01:27	2565.3 M	2363.3 M
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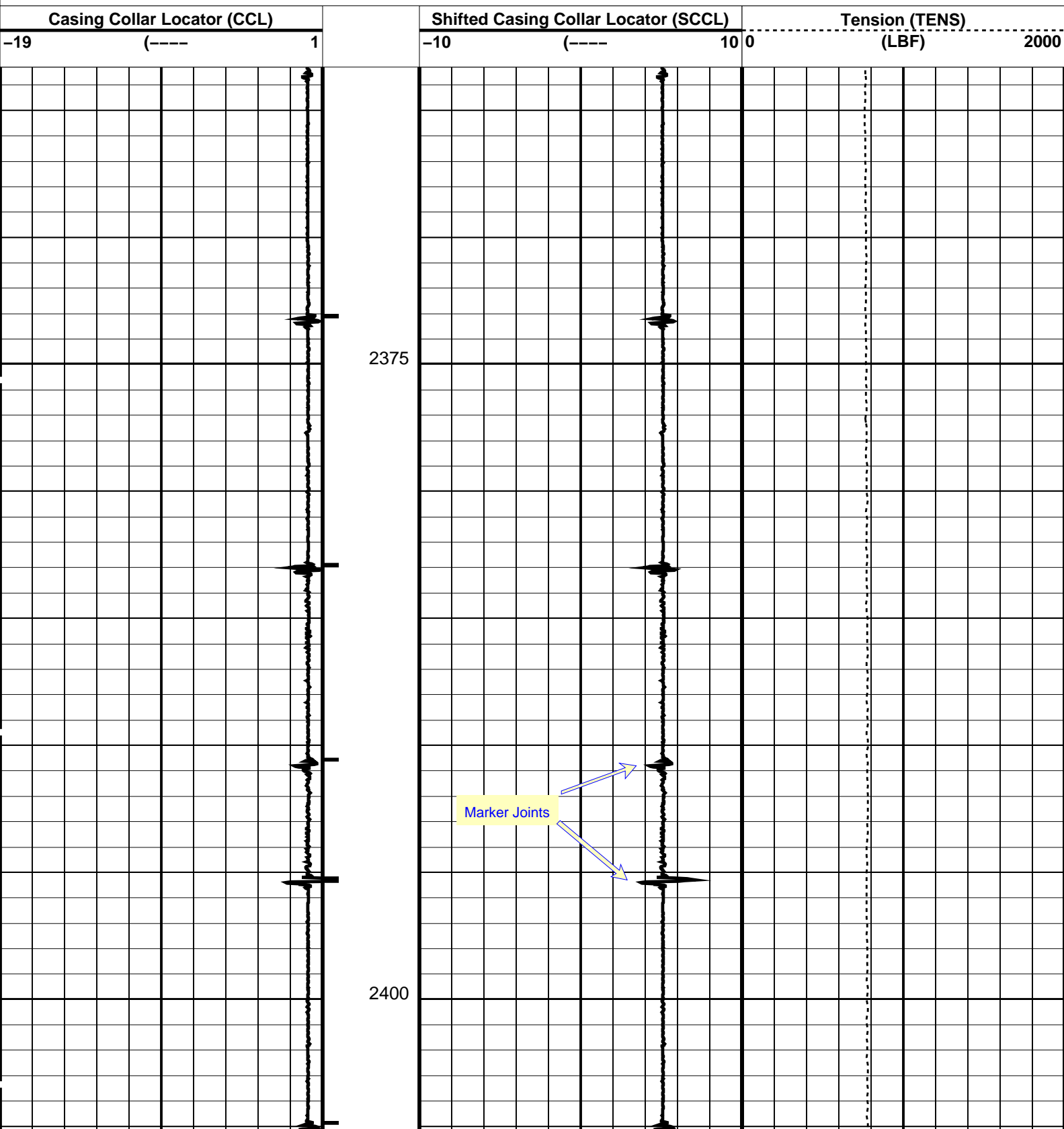
OP System Version: 17C0-154

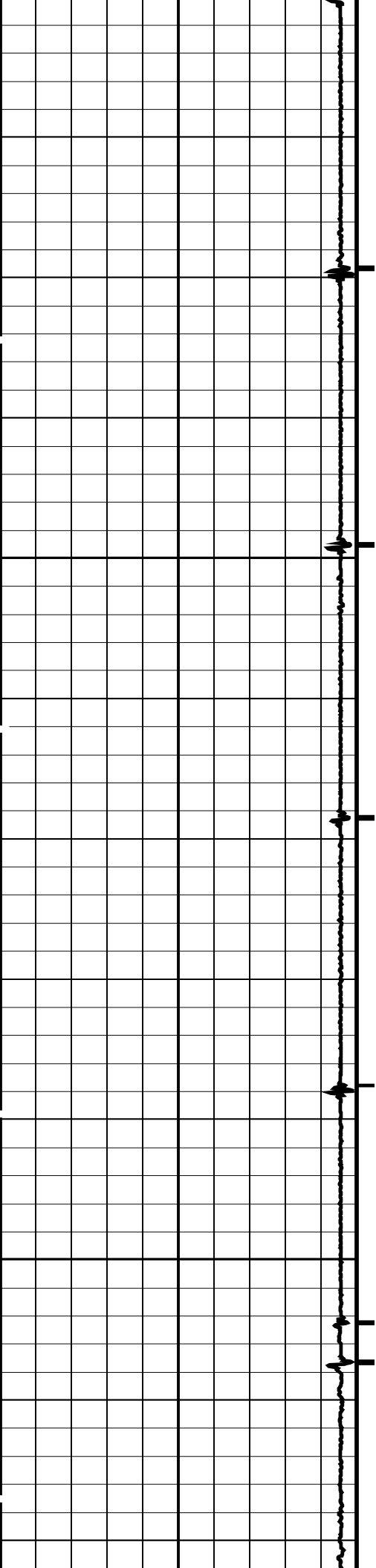
MPEX-AA	17C0-154	MPSU-BA	17C0-154
CCL-PCCL	17C0-154		

PIP SUMMARY

└ Casing Collars

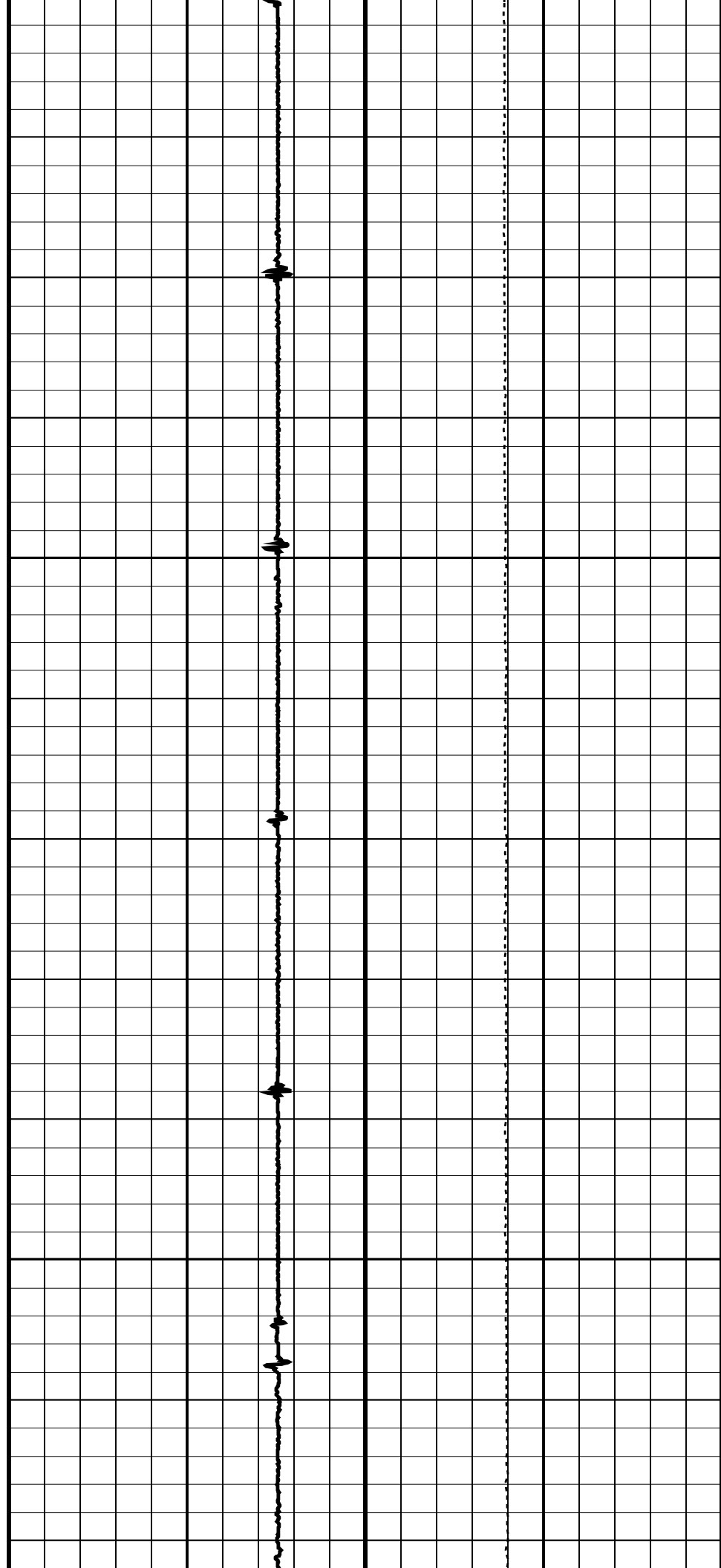
Time Mark Every 60 S

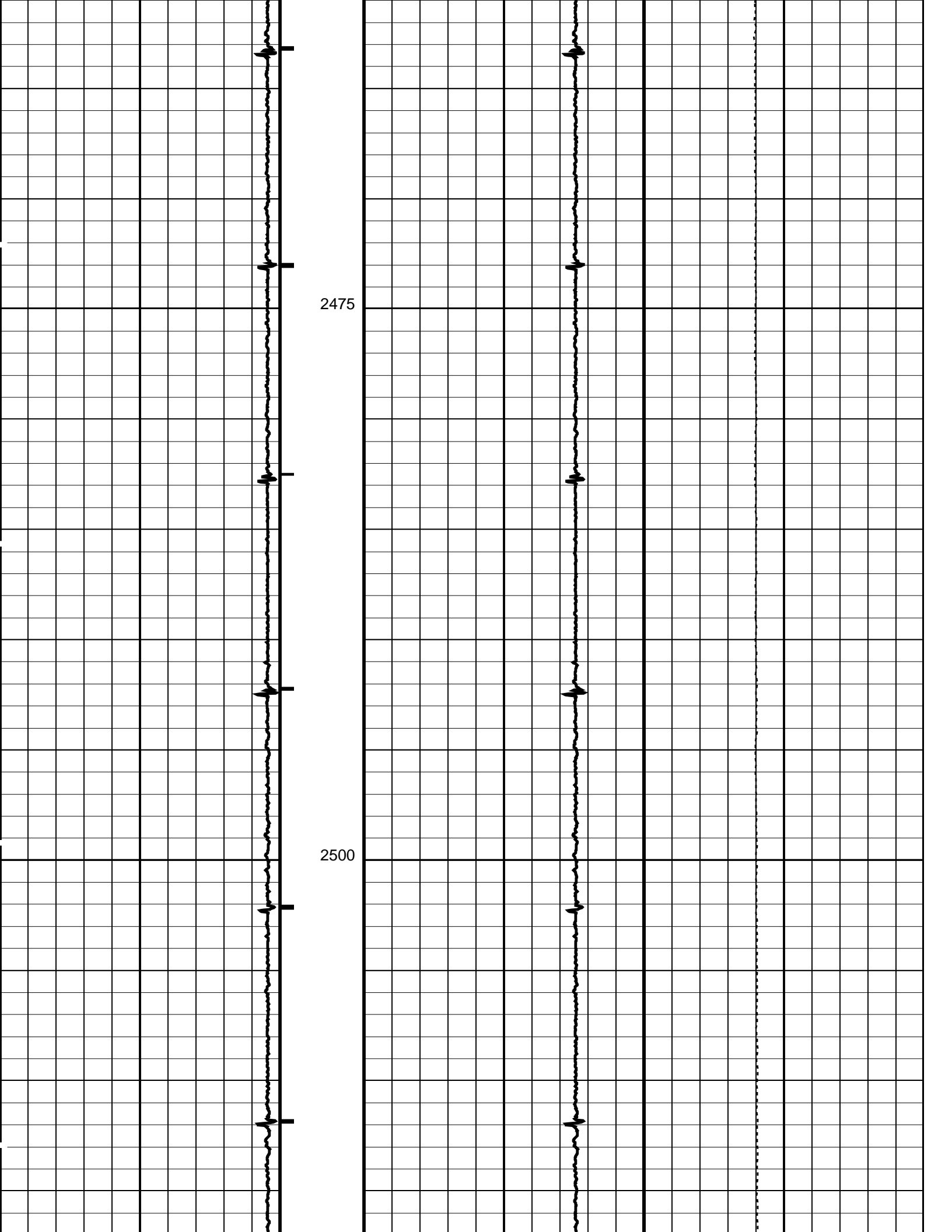


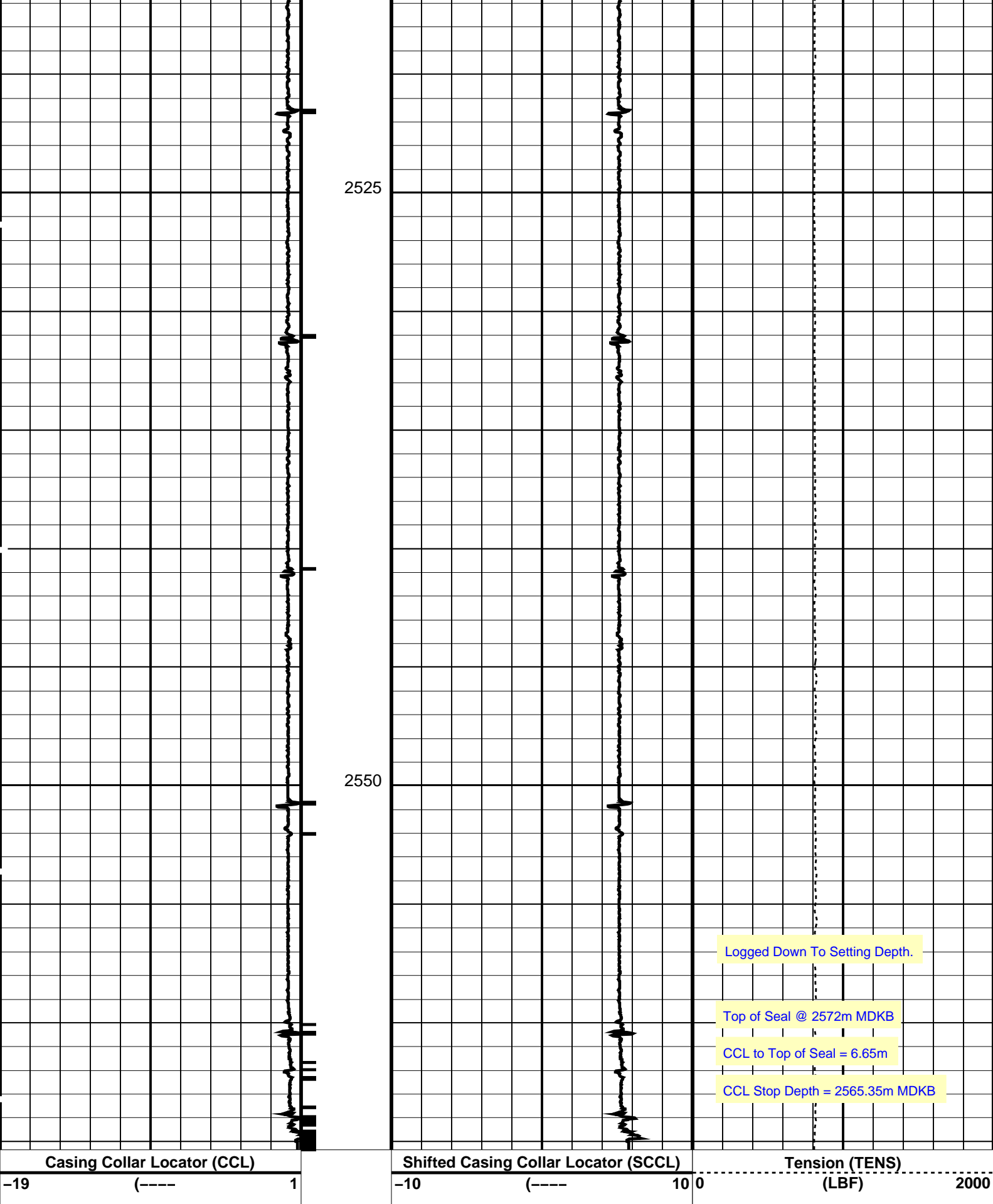


2425

2450





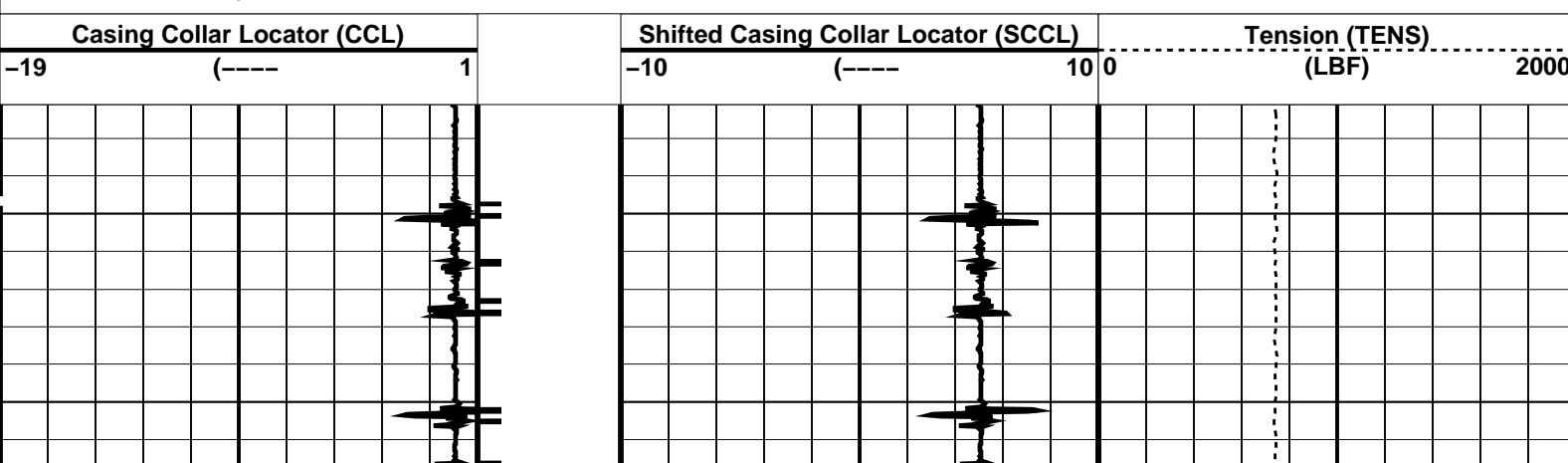


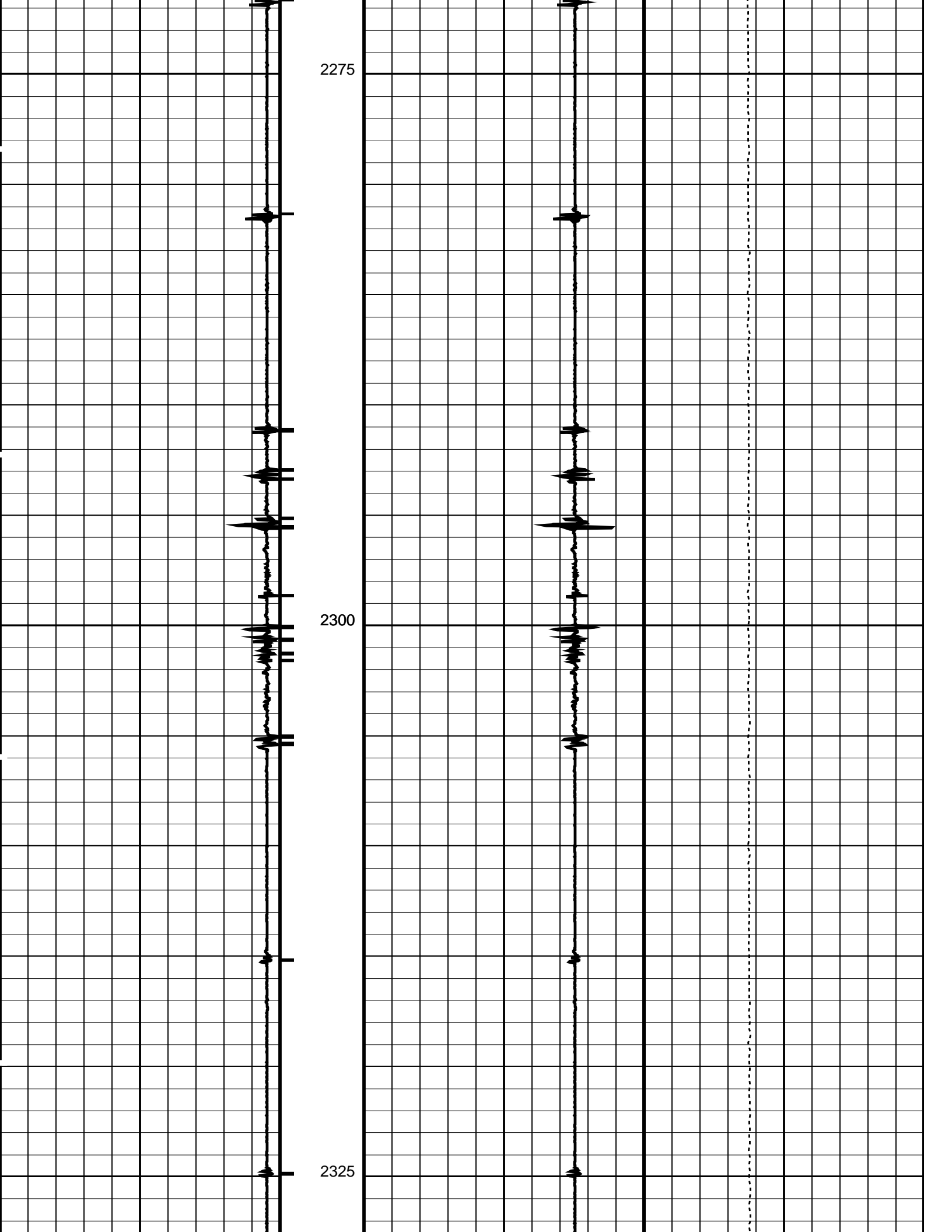
PIP SUMMARY

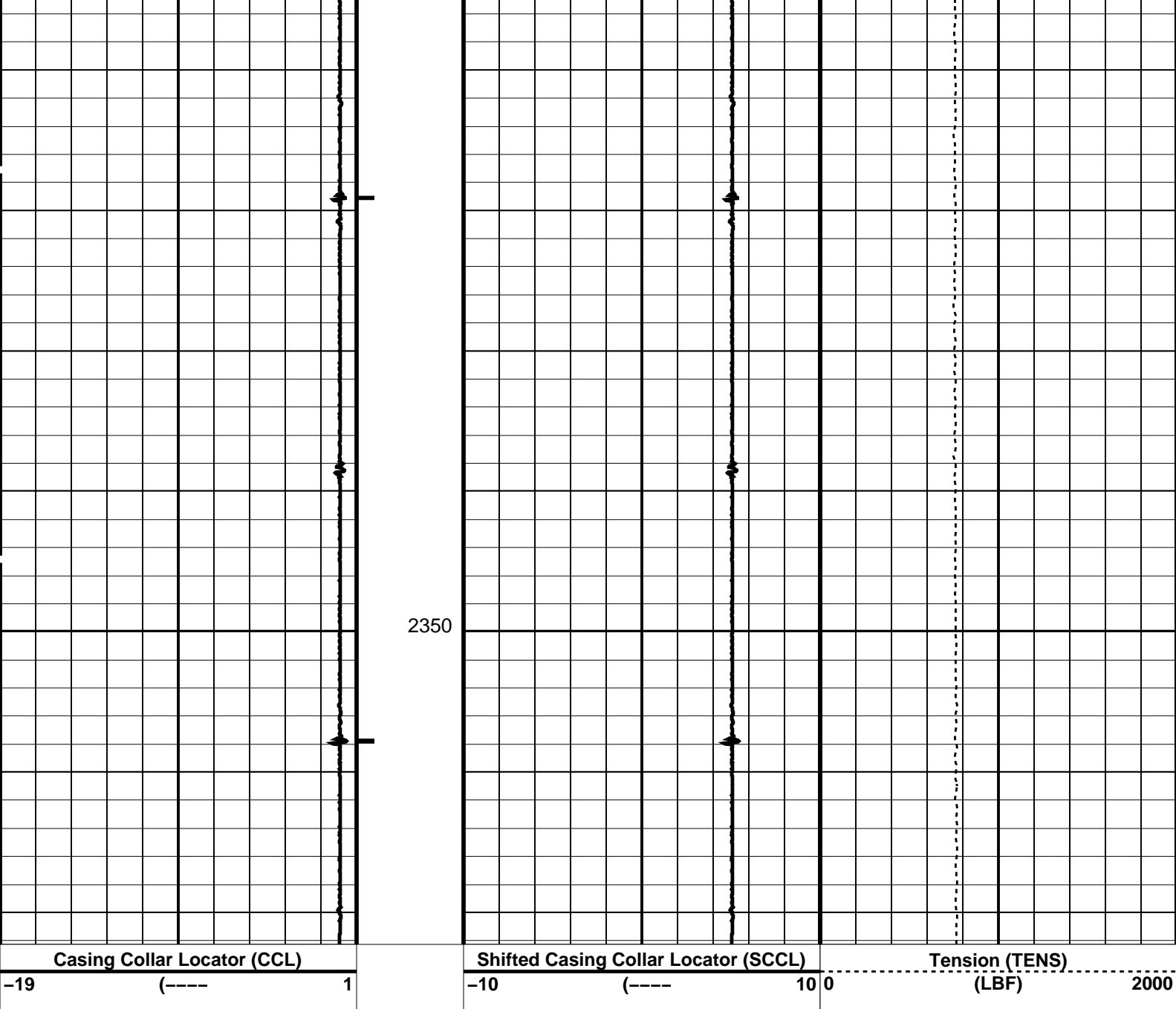
└─ Casing Collars

Time Mark Every 60 S

Parameters







PIP SUMMARY

Time Mark Every 60 S

Casing Collars

Parameters			
DLIS Name	Description		Value
CCLD	CCL-PCCL: Casing Collar Locator		
CCLT	CCL reset delay		12 IN
	CCL Detection Level		0.3 V
	System and Miscellaneous		
DO	Depth Offset for Playback		0.0 M
PP	Playback Processing		NORMAL

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 01-Nov-2009 01:27

OP System Version: 17C0-154			
MPEX-AA	17C0-154	MPSU-BA	17C0-154
CCL-PCCL	17C0-154		

Input DLIS Files			
DEFAULT	Flip_MPBT_039LUP	PRODUCER	01-Nov-2009 01:26 2361.1 M 2262.1 M

Output DLIS Files

DEFAULT MPBT_042PUP FN:44 PRODUCER 01-Nov-2009 01:27



Dummy Plug Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-13a

Input DLIS Files

DEFAULT PERFO_026LUP FN:30 PRODUCER 31-Oct-2009 22:03 2575.3 M 2197.5 M

Output DLIS Files

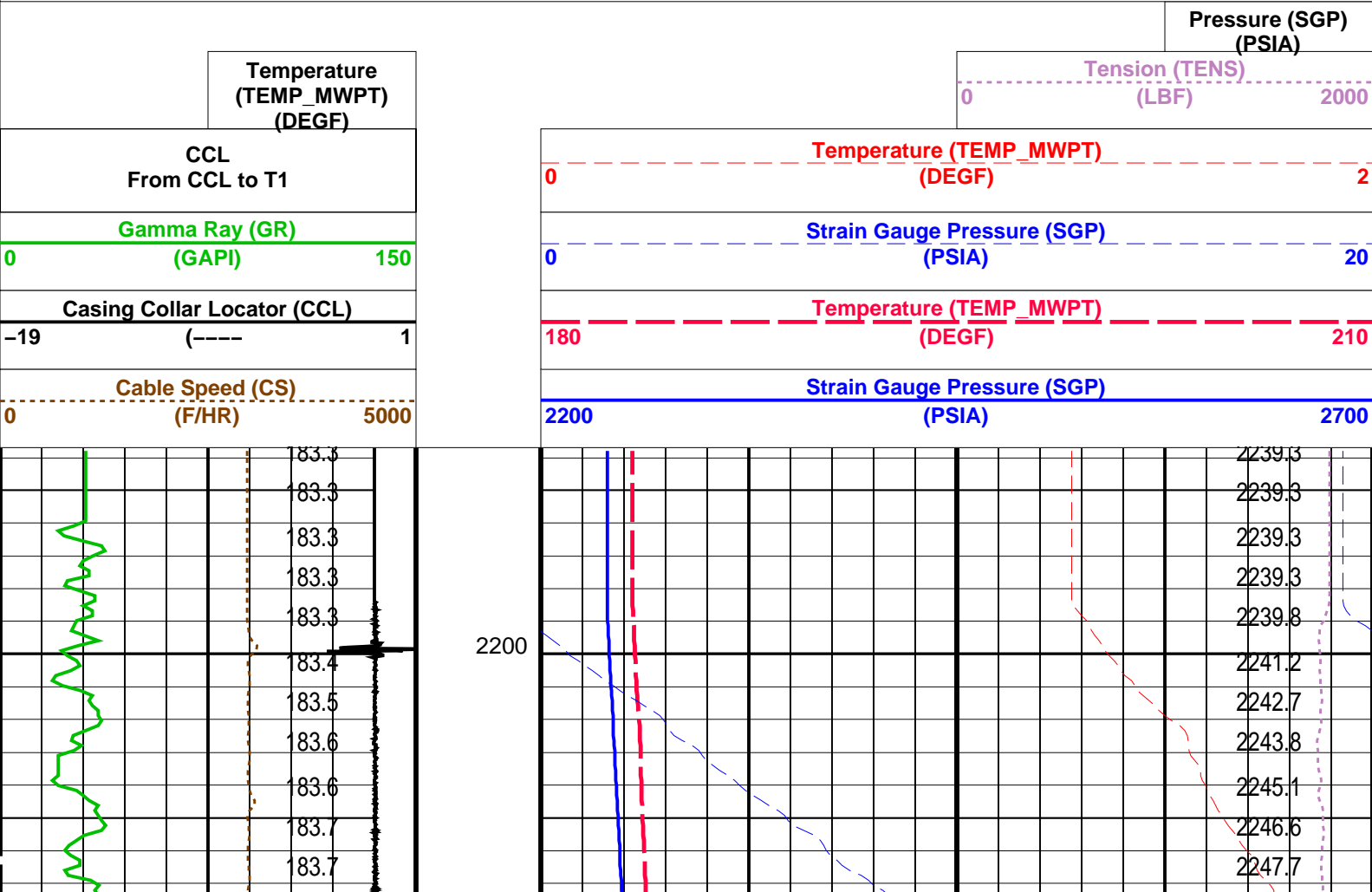
DEFAULT PERFO_028PUP FN:32 PRODUCER 31-Oct-2009 22:43 2573.9 M 2193.6 M

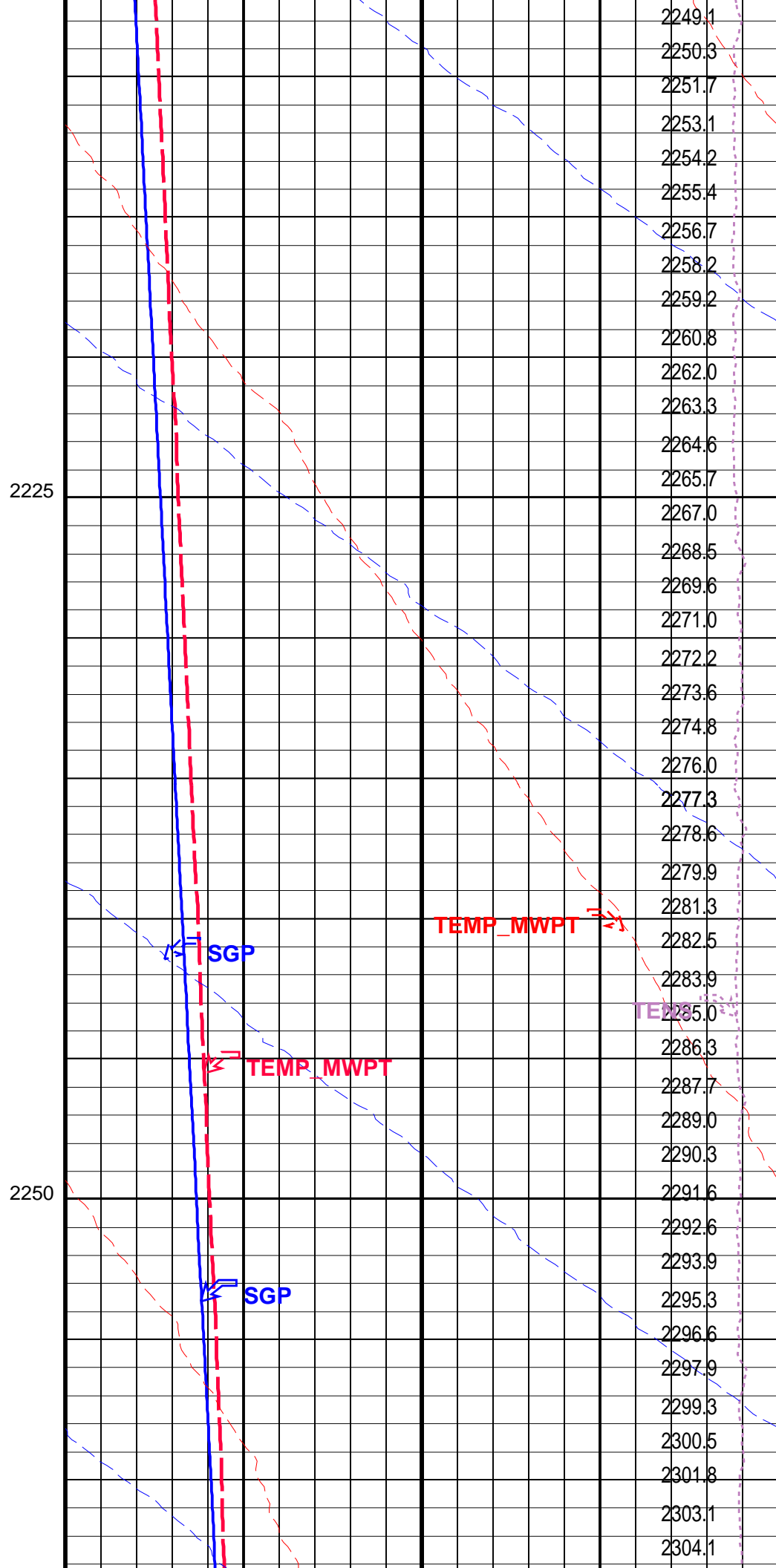
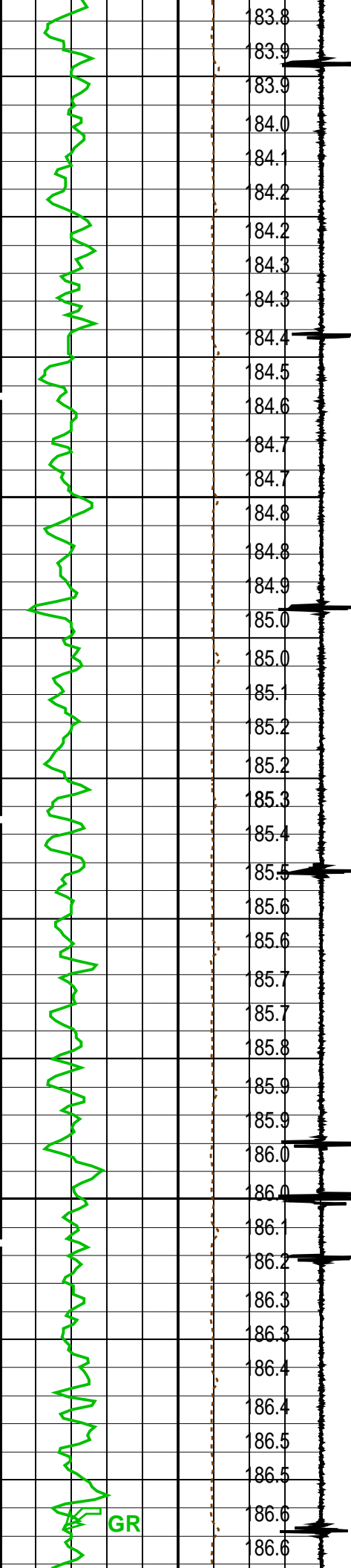
OP System Version: 17C0-154

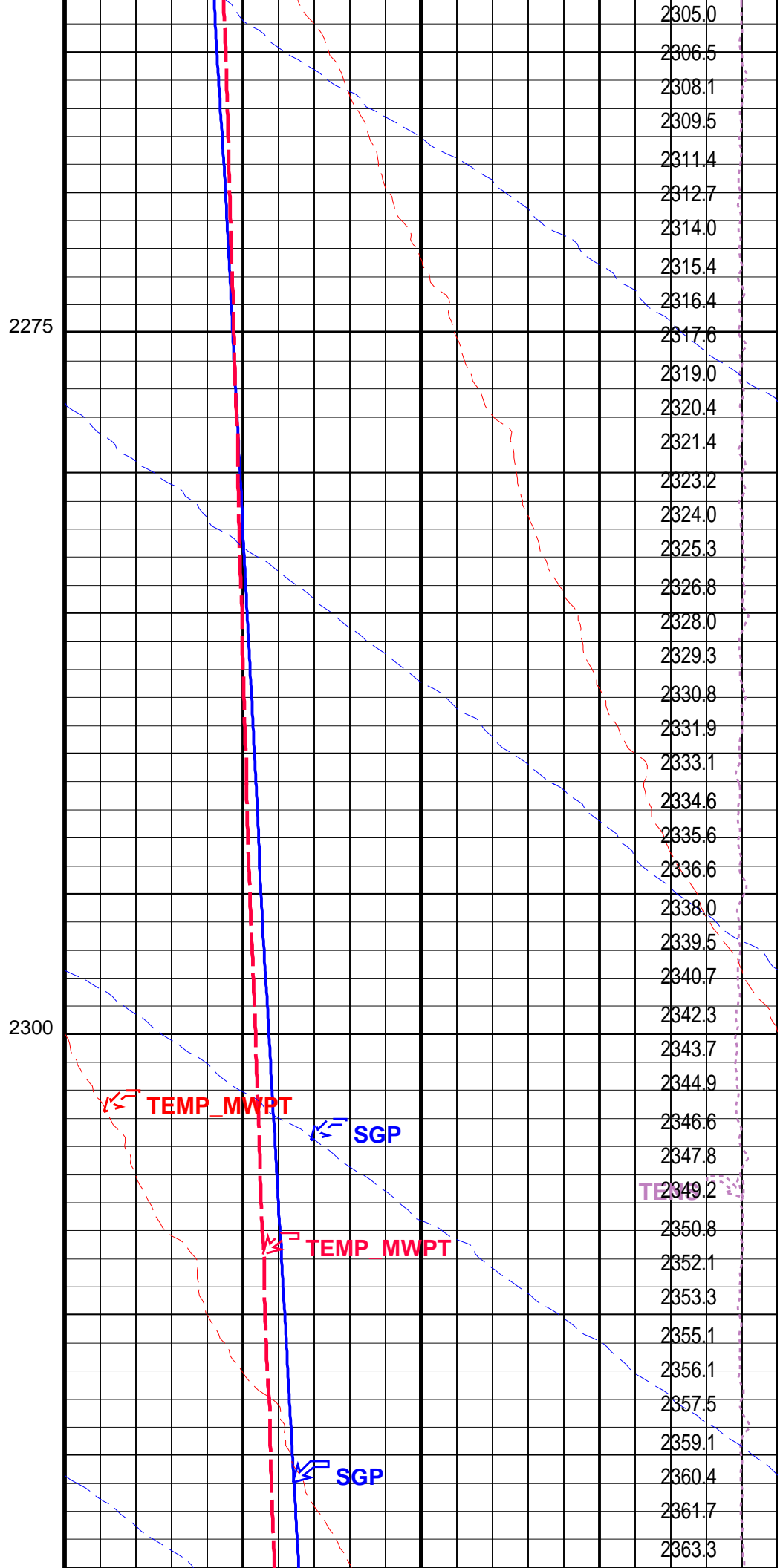
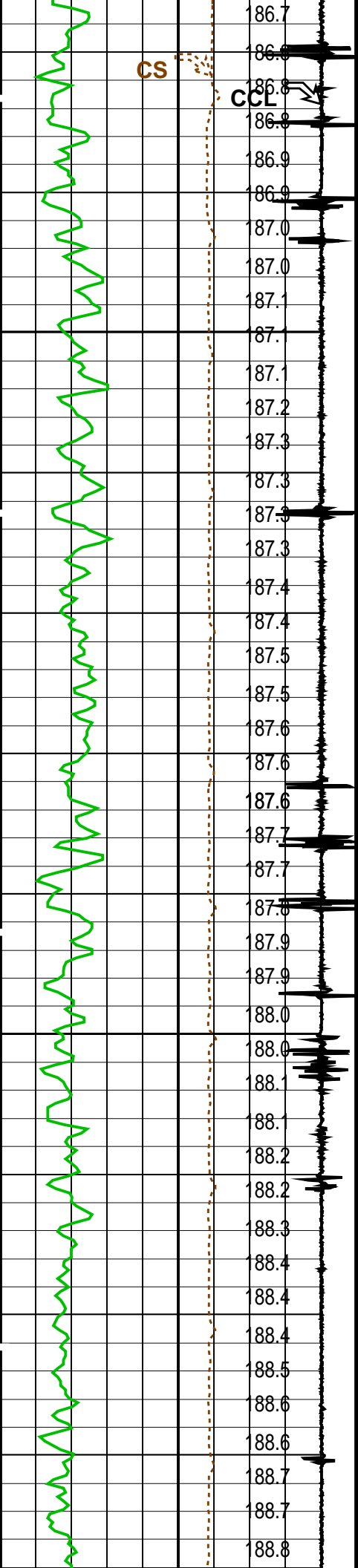
MWPT-CA 17C0-154 MWGT-AA 17C0-154

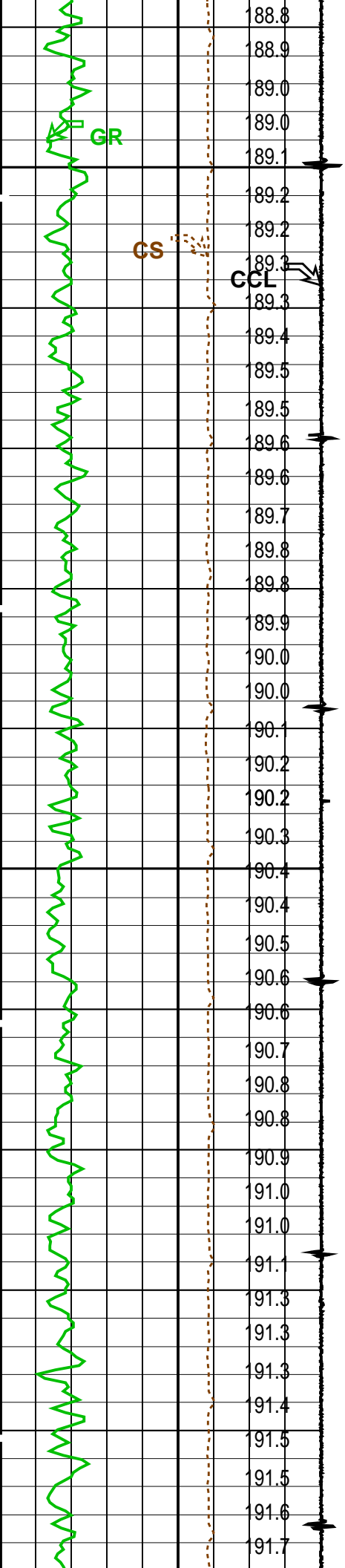
PIP SUMMARY

Time Mark Every 60 S





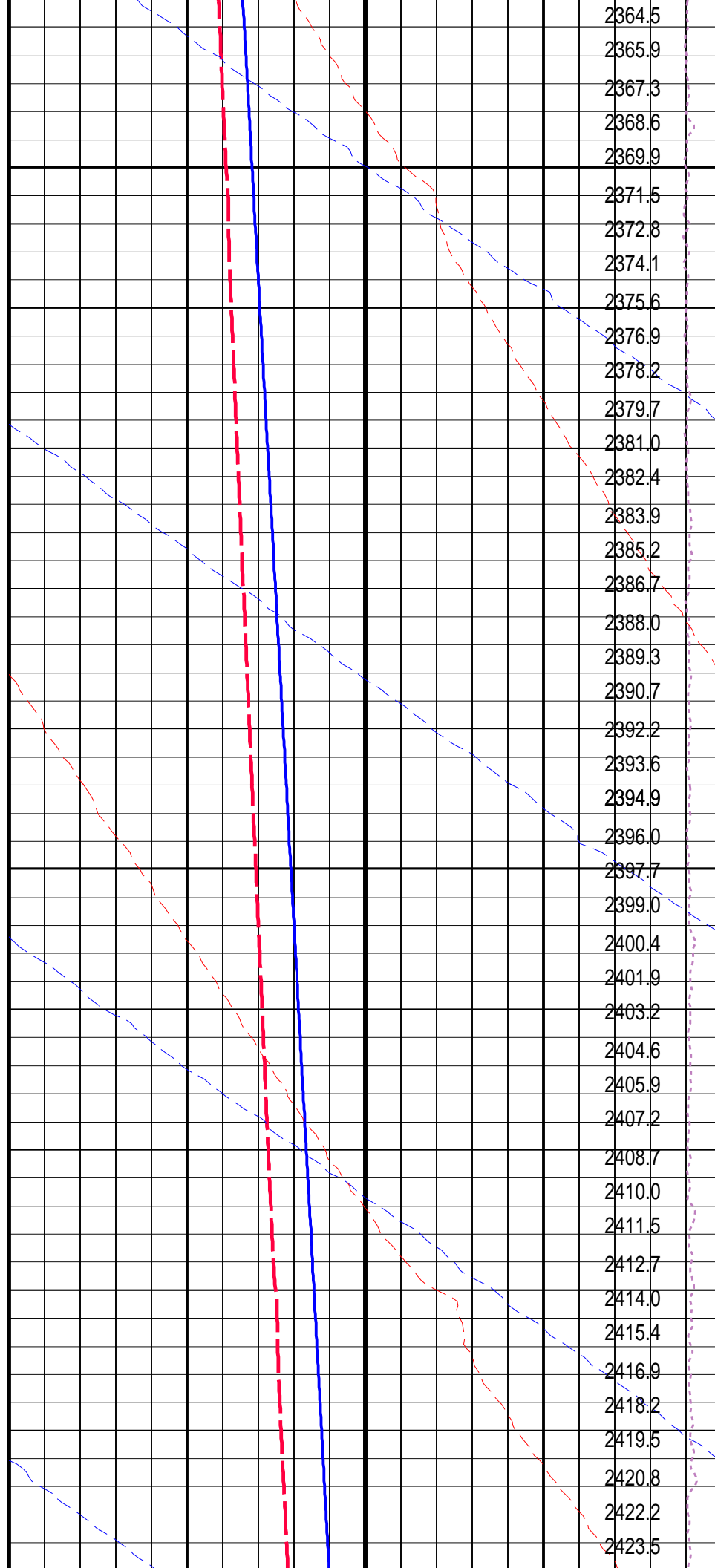


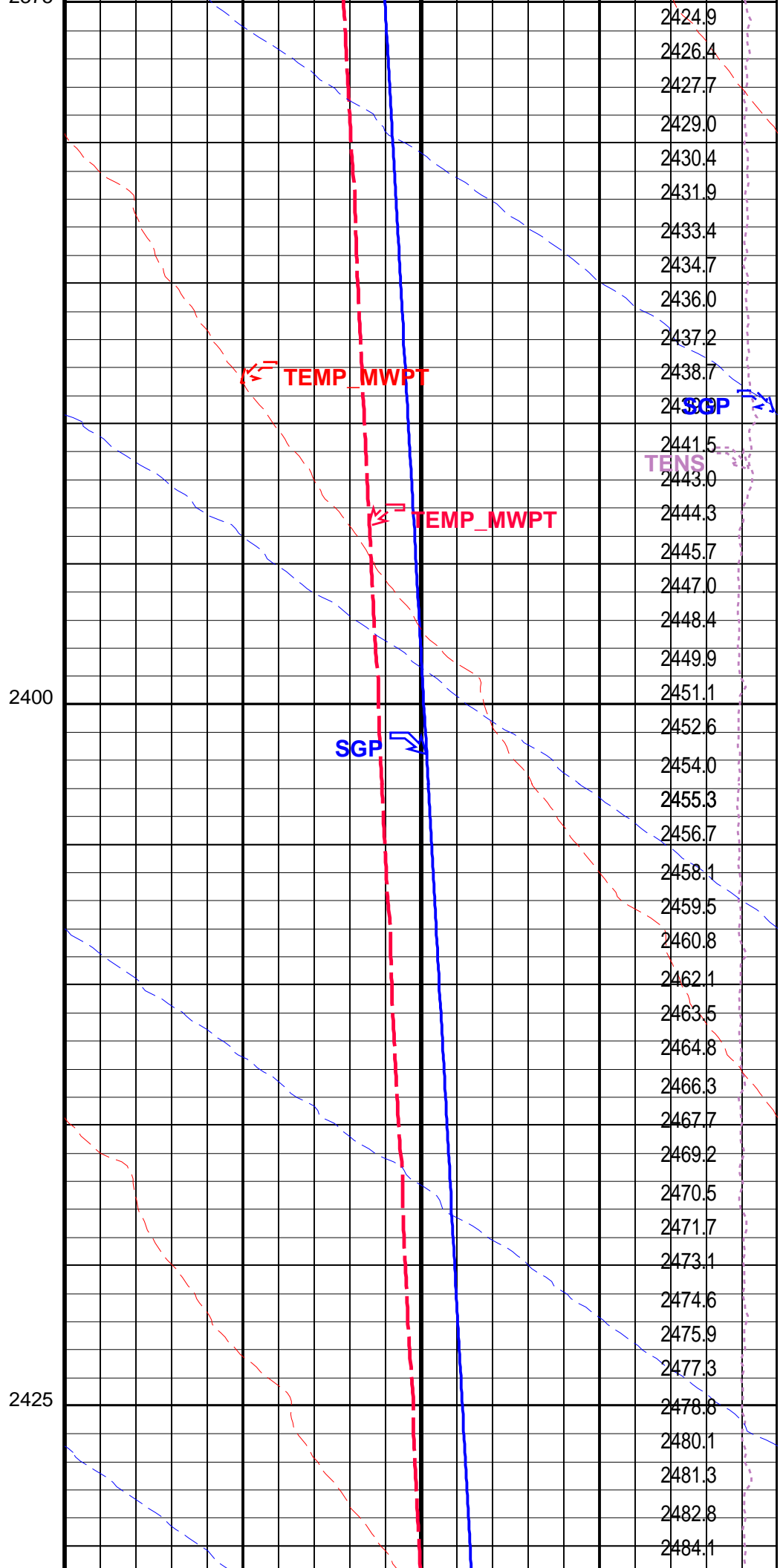
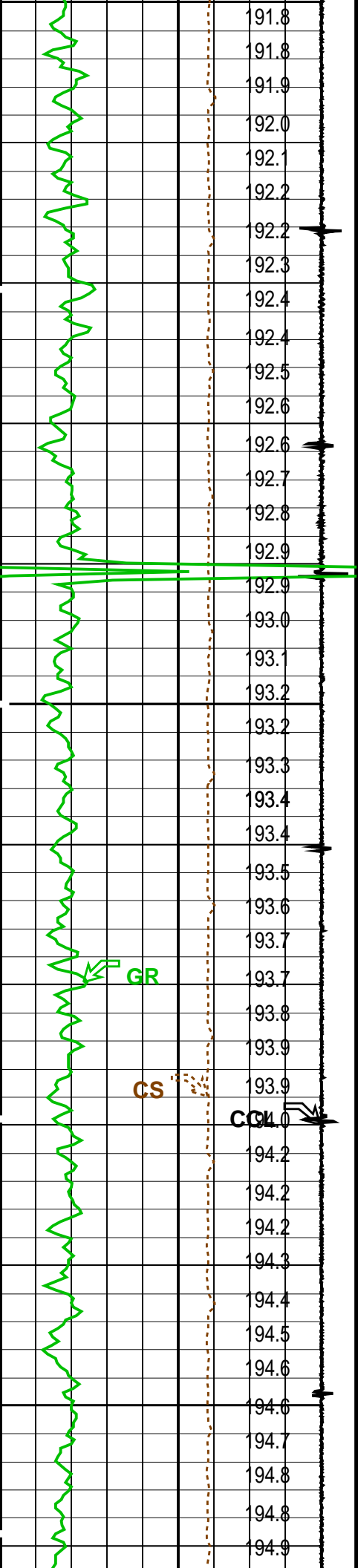


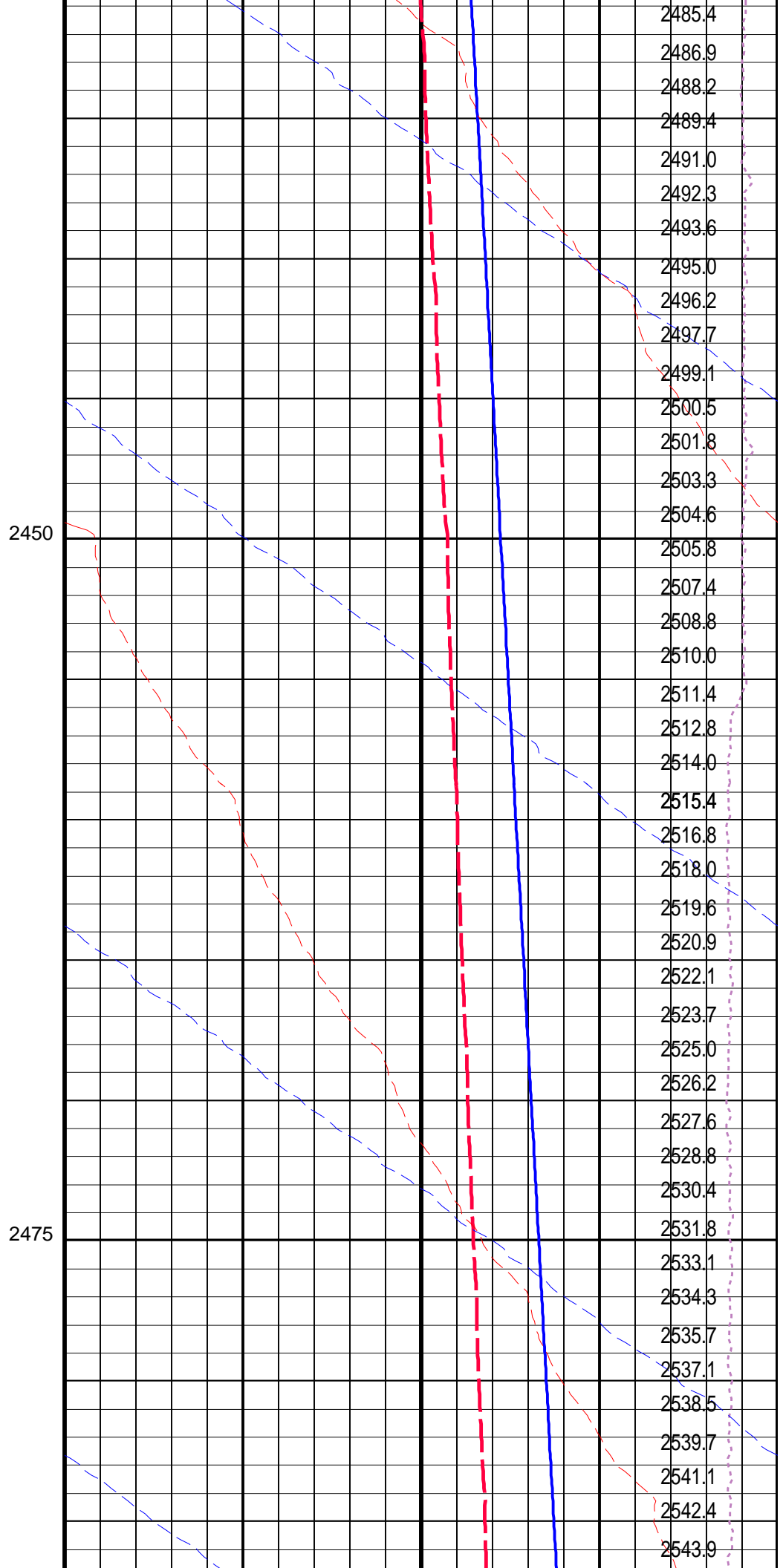
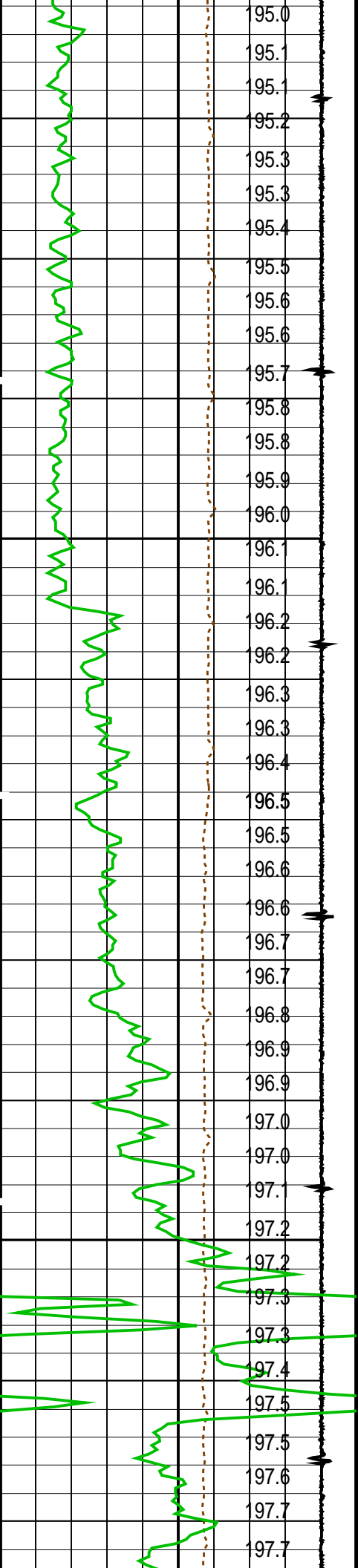
2325

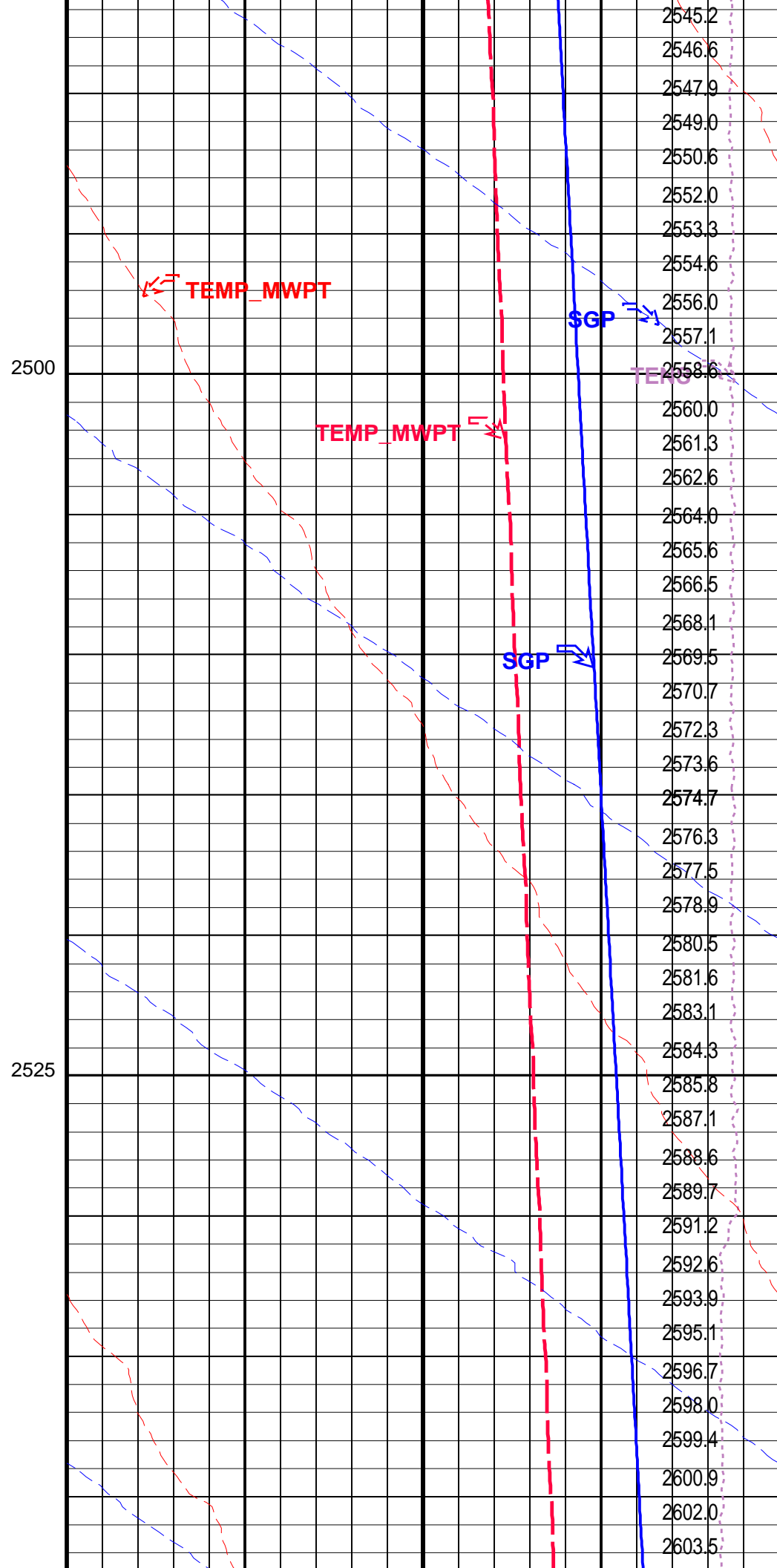
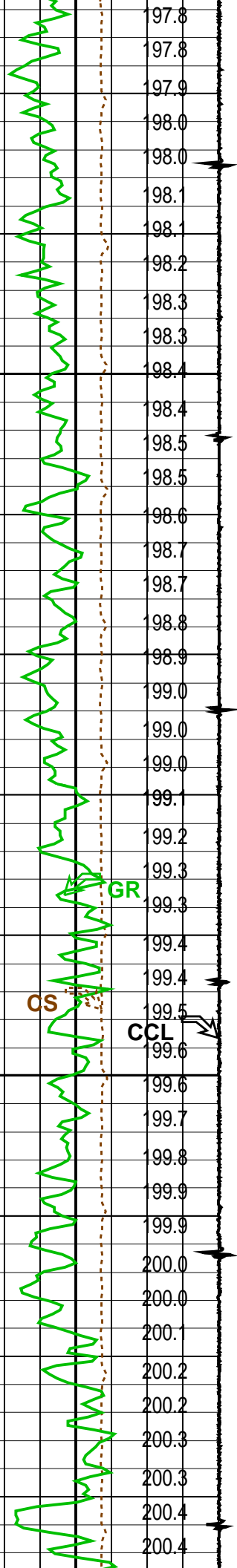
2350

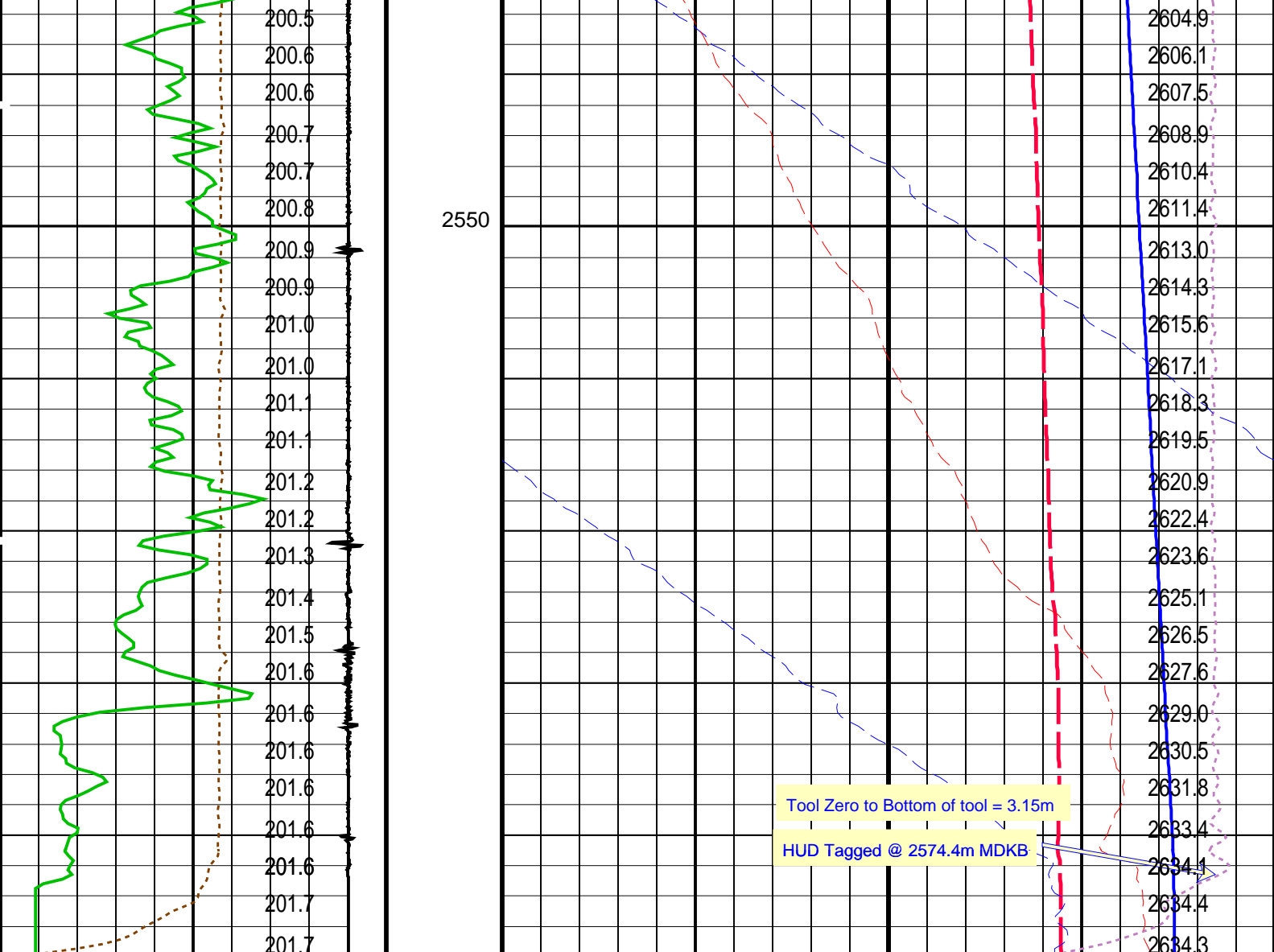
2375











Cable Speed (CS) (F/HR)		Strain Gauge Pressure (SGP) (PSIA)	
0	5000	2200	2700
Casing Collar Locator (CCL) (----		Temperature (TEMP_MWPT) (DEGF)	
-19	1	180	210
Gamma Ray (GR) (GAPI)		Strain Gauge Pressure (SGP) (PSIA)	
0	150	0	20
CCL From CCL to T1		Temperature (TEMP_MWPT) (DEGF)	
Temperature (TEMP_MWPT) (DEGF)		Tension (TENS) (LBF)	
		0	2000
		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	-1.4 M
PP	Playback Processing	NORMAL

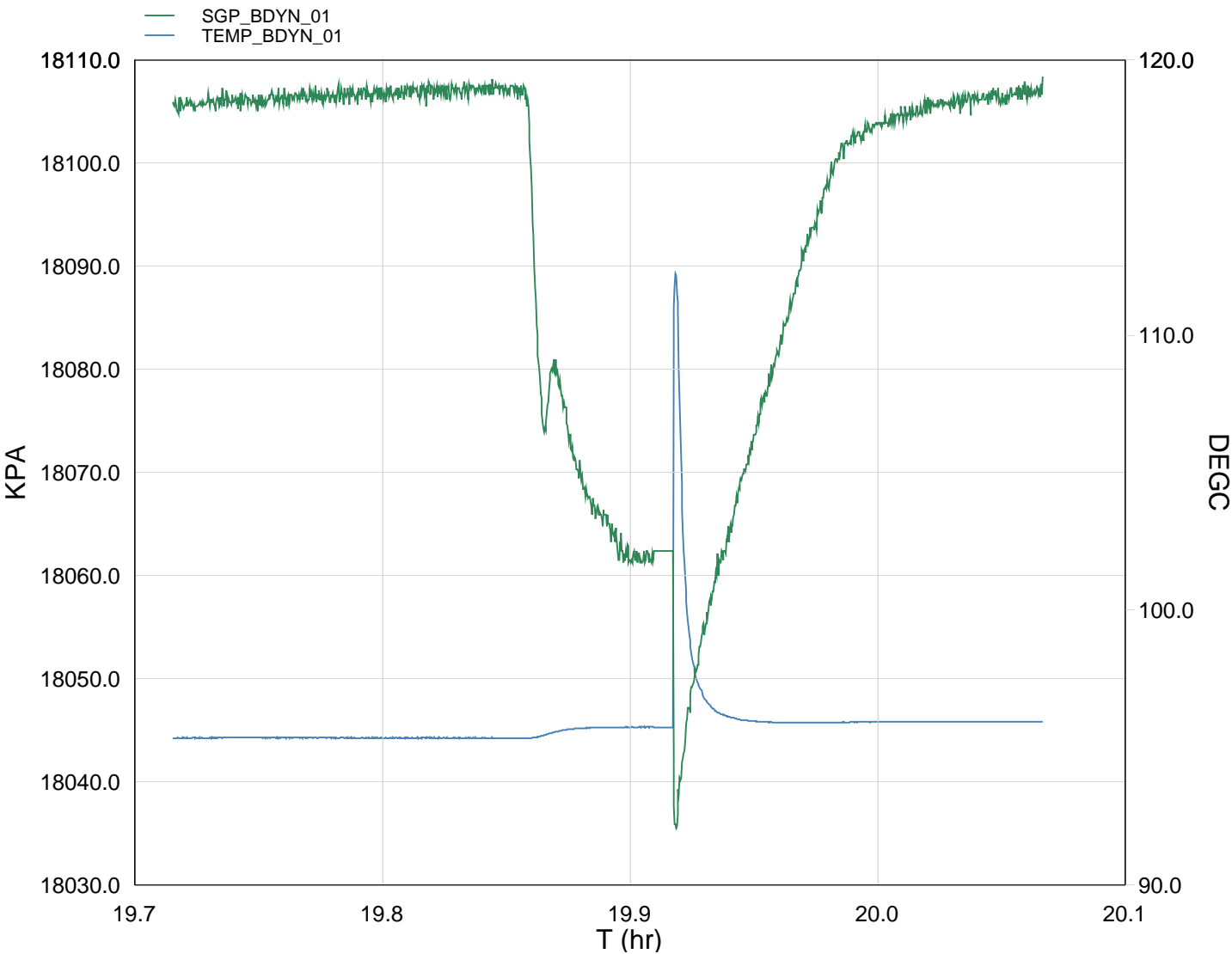
OP System Version: 17C0-154

MWPT-CA	17C0-154	MWGT-AA	17C0-154
Input DLIS Files			
DEFAULT	PERFO_026LUP	FN:30	PRODUCER 31-Oct-2009 22:03 2575.3 M 2197.5 M
Output DLIS Files			
DEFAULT	PERFO_028PUP	FN:32	PRODUCER 31-Oct-2009 22:43



Gun Fired @
2564m to 2566.5m MDKB

MAXIS Field Log



TIME

KPAL

PSIA

DEGF

3720.0	18105.0575	2625.9208	203.6340	
3780.0	18106.1356	2626.0772	203.6459	
3840.0	18105.6735	2626.0102	203.6476	
3900.0	18106.5652	2626.1395	203.6476	
3960.0	18106.7726	2626.1696	203.6501	
4020.0	18106.1799	2626.0836	203.6343	
4080.0	18106.6830	2626.1566	203.6410	
4140.0	18107.2170	2626.2340	203.6404	
4200.0	18107.2756	2626.2426	203.6317	
4260.0	18076.4677	2621.7742	203.8749	
4320.0	18067.6667	2620.4978	204.2957	
4380.0	18061.5179	2619.6060	204.3353	
4440.0	18062.3966	2619.7334	204.3377	GUN FIRED
4500.0	18058.4016	2619.1540	205.5592	
4560.0	18073.6739	2621.3690	204.7334	
4620.0	18087.3401	2623.3511	204.6318	
4680.0	18100.3548	2625.2388	204.6484	
4740.0	18103.7146	2625.7261	204.6827	
4800.0	18104.8659	2625.8931	204.6899	
4860.0	18104.8952	2625.8973	204.7036	
4920.0	18105.9575	2626.0514	204.6988	
4980.0	18108.2618	2626.3856	204.6968	

Schlumberger

Gun Shooting Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-13a

Output DLIS Files

DEFAULT PERFO_021LUP FN:25 PRODUCER 31-Oct-2009 20:10 2567.9 M 2515.7 M

OP System Version: 17C0-154

MWP_GUN 17C0-154 MWPT-CA 17C0-154
MWGT-AA 17C0-154

PIP SUMMARY

Time Mark Every 60 S

Pressure (SGP)
(PSIA)

Temperature
(TEMP_MWPT)
(DEGF)

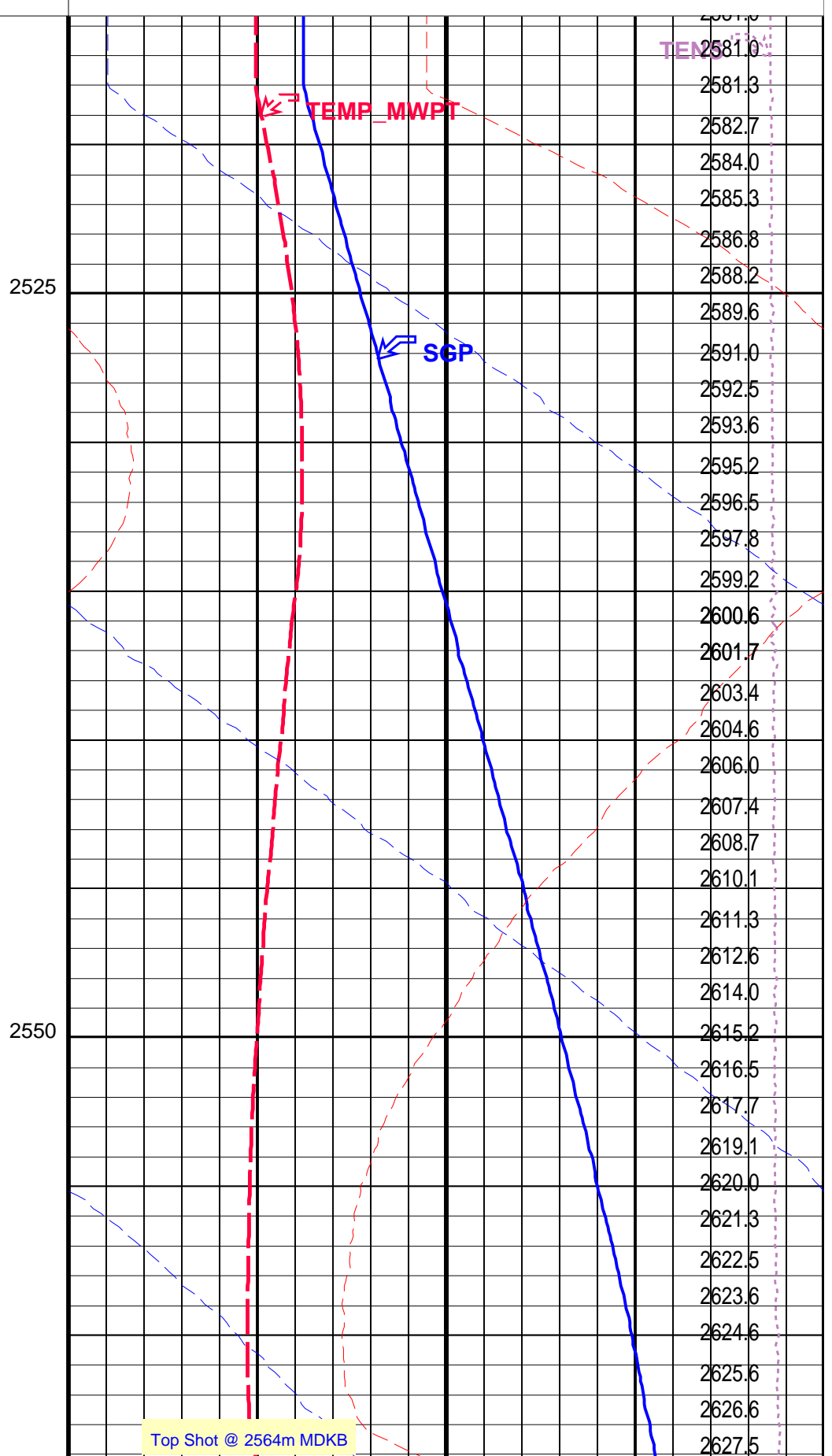
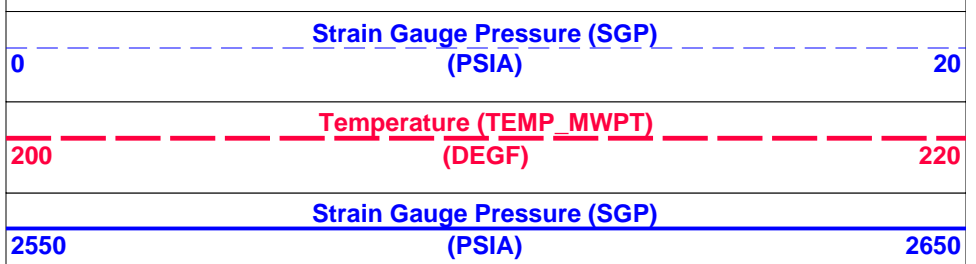
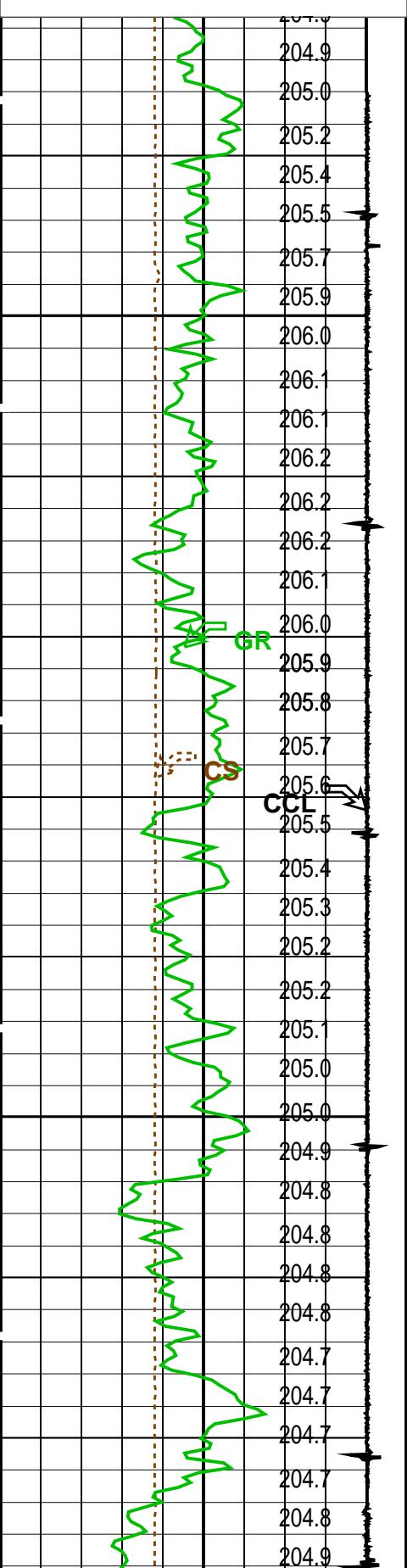
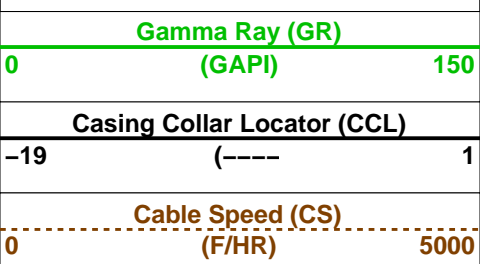
Tension (TENS)
(LBF)

0 2000

CCL
From CCL to T1

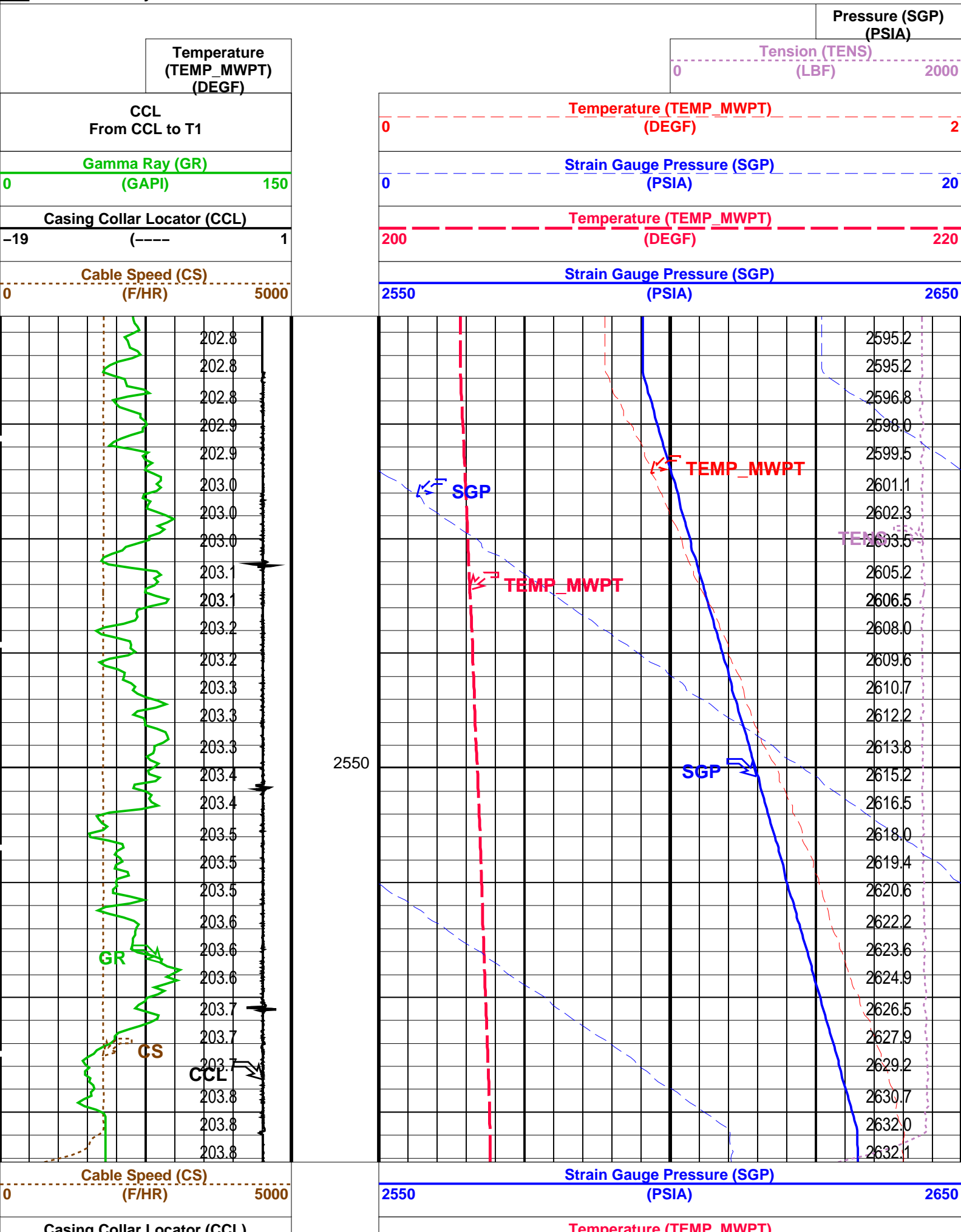
Temperature (TEMP_MWPT)
(DEGF)

0 2



PIP SUMMARY

Time Mark Every 60 S



Casing Central Location (CCL)		1
Gamma Ray (GR)		
0	(GAPI)	150
CCL From CCL to T1		
Temperature (TEMP_MWPT) (DEGF)		
200		220
Strain Gauge Pressure (SGP)		
0	(PSIA)	20
Temperature (TEMP_MWPT)		
0	(DEGF)	2
Tension (TENS)		
0	(LBF)	2000
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: 31-Oct-2009 19:30
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OP System Version: 17C0-154			
MWP_GUN	17C0-154	MWPT-CA	17C0-154
MWGT-AA	17C0-154		

Output DLIS Files			
DEFAULT	PERFO_018LUP	FN:22	PRODUCER 31-Oct-2009 19:30

Company:	Esso Australia Pty Ltd.	Schlumberger
Well:	A-13a	
Field:	Bream A	
Rig:	Prod4 / Crane	
Country:	Australia	
2 1/8" Powerjet MWPT Perforation Record		
4.5" Posiset Plug Setting Record		
Cement Dump Record		