Schlumberger

Company: **Esso Australia Pty Ltd.**

Well: **A−6**
Field: **Flounder**
Rig: **Crane / Prod4** Country: **Australia**

Rig: Crane / Prod4
Field: Flounder
Location: Gippsland
Well: A−6
Company: Esso Australia Pty Ltd.

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

LOCATION

Gippsland	Elev.:	K.B.	34.20 m
Basin		G.L.	−93.00 m
Bass Strait		D.F.	34.20 m

Permanent Datum:	M.S.L	Elev.:	0.00 m
Log Measured From:	K.B	40.80 m	above Perm. Datum
Drilling Measured From:	K.B		

State:	Max. Well Deviation	Longitude	Latitude
Victoria	64.5 deg	148* 26' 21.748"E	38* 18' 39.245"S

Logging Date		15−Sep−2009					
Run Number		1 thru 5					
Depth Driller		4160 m					
Schlumberger Depth		4083.5 m					
Bottom Log Interval		4078 m					
Top Log Interval		4075 m					
Casing Fluid Type		Production Fluids					
Salinity							
Density							
Fluid Level		1195 m					
BIT/CASING/TUBING STRING							
Bit Size		12.250 in					
From		13 m					
To		4146 m					
Casing/Tubing Size		7.000 in					
Weight		26 lbm/ft					
Grade		N−80					
From		13 m					
To		4146 m					
Maximum Recorded Temperatures		232 degF					
Logger On Bottom	Time	15−Sep−2009	8:35				
Unit Number	Location	889	Prod 4				
Recorded By		O Darby					
Witnessed By		Ben Robinson					

		Run 1	Run 2	Run
PVT DATA	Oil Density			
	Water Salinity			
	Gas Gravity			
	Bo			
	Bw			
	1/Bg			
	Bubble Point Pressure			
	Bubble Point Temperature			
	Solution GOR			
Maximum Deviation		64.5 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				

Run 3	Run 4

DEPTH SUMMARY LISTING

Depth System Equipment

Date Created: 13−SEP−2009 16:19:58

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:	2−Dec−2008	Calibration Date:	20−7−2009	Length:	6421 M
Calibrator Serial Number:	30	Calibrator Serial Number:	854	Conveyance Method:	Wireline
Calibration Cable Type:	2−32ZT	Number of Calibration Points:	10	Rig Type:	Offshore Fixed
Wheel Correction 1:	−1	Calibration RMS:	281		
Wheel Correction 2:	−2	Calibration Peak Error:	454		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	ExxonMobil Petrophysical Analysis
Reference Log Run Number:	
Reference Log Date:	8−sep−2008
Subsequent Trip Down Log Correction:	

Depth Control Remarks

1. IDW used as primary depth control
2. Z−Chart used as back−up
3.
4.
5. All depths are drillers depths
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	OTHER SERVICES2
OS1: RST−C Sigma	OS1:
OS2: Survey	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to ExxonMobil Composite Log supplied with logging program.	
Maximum well deviation = 64.5 Degrees at 750m MDKB.	
Run one well was perforated over the interval 4075m to 4080m MDKB using	
2 1/8"45 degree phased powerjet at 6 shots per foot.	
SBHP = 3312 psia,SBHT =233 Degf.	
After firing the gun 3296 psia, 238 Degf	
7" Mpbt plug was then set at 4080.5m MDKB followed by water and	

A mpbt plug was then set at 1000.5m MDRT,followed by water and cement dump runs.

Crew: Nathan Simmons & Andrew Pratt

RUN 1			RUN 2		
SERVICE ORDER #:	AUSL08602233		SERVICE ORDER #:		
PROGRAM VERSION:	17C0−154		PROGRAM VERSION:		
FLUID LEVEL:	1195 m		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

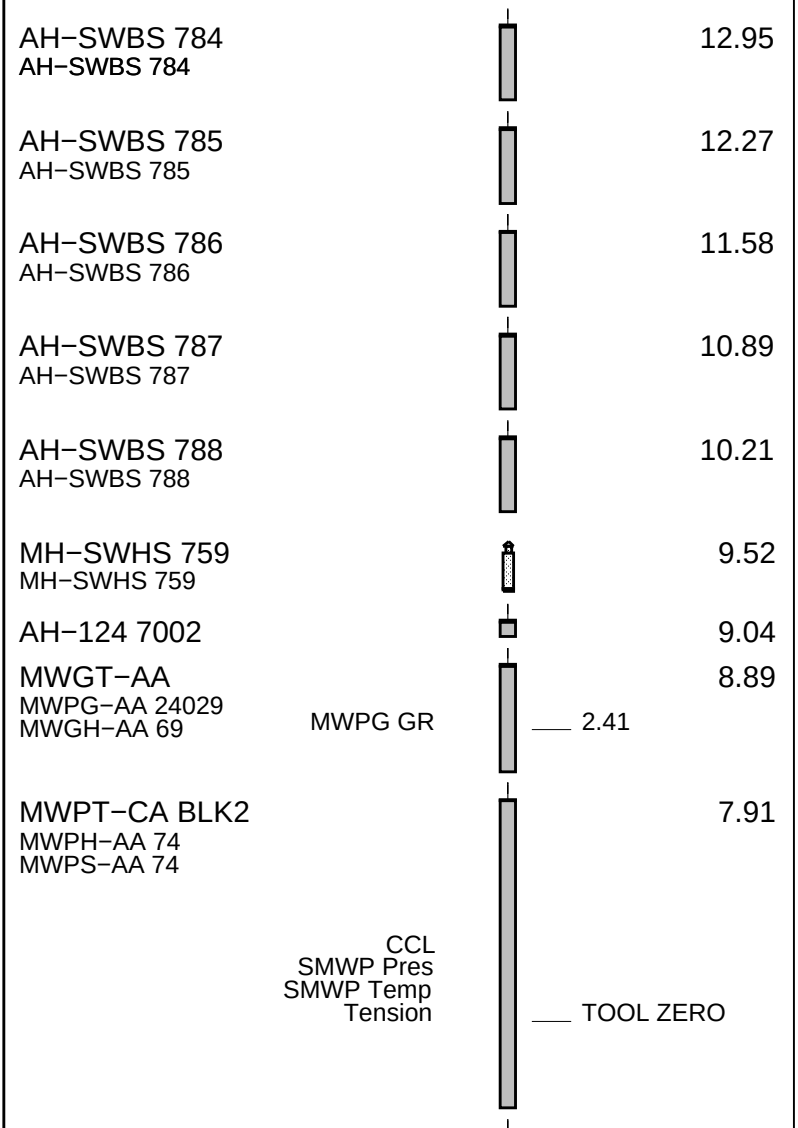
EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

MWPM−3000

DOWNHOLE EQUIPMENT

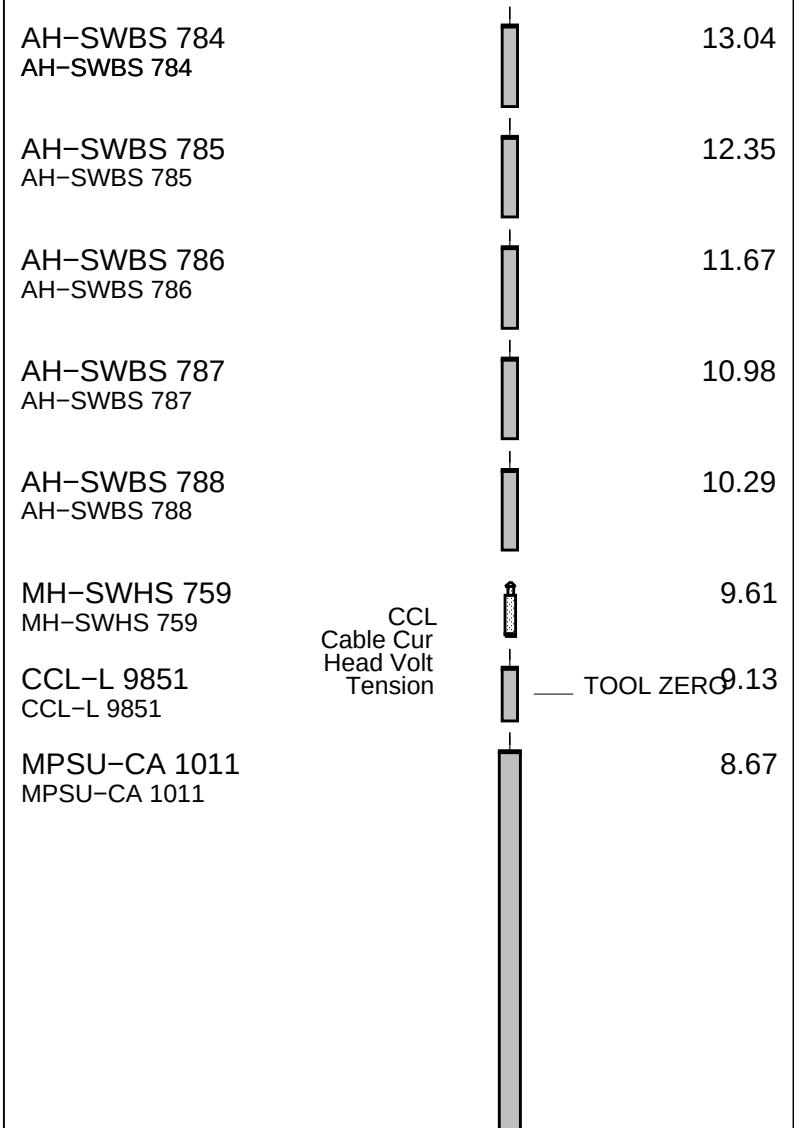


RUN 2

SURFACE EQUIPMENT

MPBM

DOWNHOLE EQUIPMENT



AH−121 42 5.10
AH−121 42

SAH−G 1035 4.42
SAH−G 1035

MPD−MB 268 4.00
MPD−MB 268

AH−ESIC 4007393 3.51
AH−ESIC 4007393

MWP_GUN 3.00
GUN−3m PowerJet Gun 1

TOOL BOTTOM

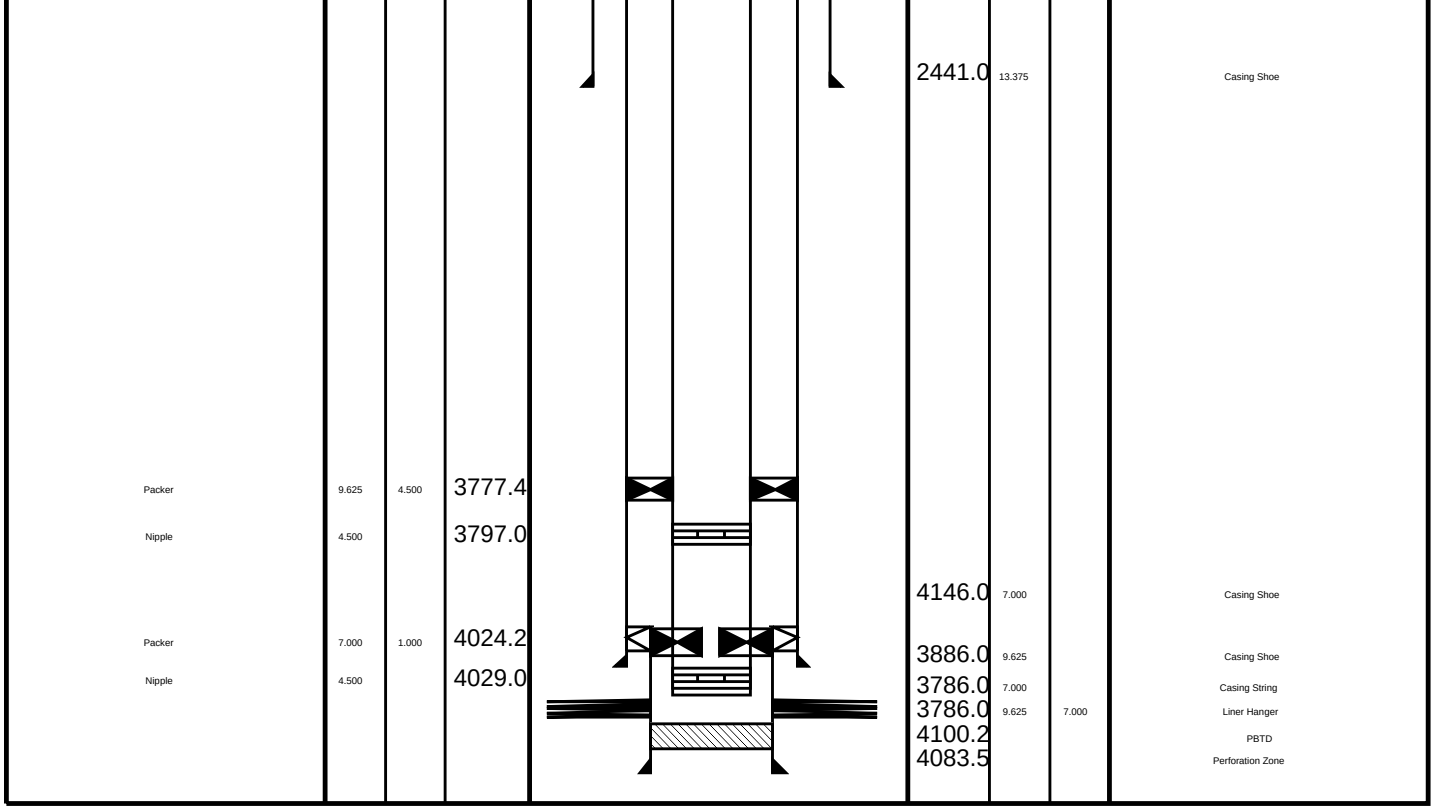
MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

MPEX−BA 2.26
MPEX−BA

TOOL BOTTOM

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

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String
Tubing	4.500		12.8		16.0	9.625		Casing String
Tubing Hanger	9.625	4.500	11.0		16.0	18.000	19.625	Liner Hanger
Shutin Valve	4.500		457.0					
					687.0	16.000		Casing Shoe
Gas Lift Mandrel	4.500		969.0					
Gas Lift Mandrel	4.500		1874.3					
Nipple	4.500		1890.0					



Schlumberger

Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Simulated Log OP checked toolstring	14-Sep-2009 8:14	000:01		RST_PSP_014LUP
Log Pass (up) RST Correlation pass	14-Sep-2009 9:15	000:08	4086.1 - 4012.8	RST_PSP_016LUP
Log Pass (up) RST Sigma pass # 1	14-Sep-2009 9:46	000:15	4087.8 - 4015.9	RST_PSP_018LUP
Log Pass (up) RST Sigma pass # 2	14-Sep-2009 10:08	000:15	4088.0 - 4015.0	RST_PSP_020LUP
After Calibration Completed MWPT Calibration	14-Sep-2009 16:38			
Simulated Log Hot checked MWPT	15-Sep-2009 6:52	000:18		PERFO_042LUP
Log Pass (up) Gun Correlation pass	15-Sep-2009 8:57	000:05	4075.2 - 4022.4	PERFO_050LUP
Log Pass (up)	15-Sep-2009 9:07	000:51	4075.2 - 4015.1	PERFO_051LUP

```
    Gun Shooting pass
Station Log                  15-Sep-2009  9:09  000:43   4071.6              PERFO_053LTP
    Gun Draw down station log
Simulated Log                15-Sep-2009 11:18  000:02                       PERFO_057LUP
    OP checked Dummy plug toolstring
Log Pass (up)                15-Sep-2009 12:05  000:06   4082.3 -  4009.5    PERFO_060LUP
    Dummy Plug Correlation pass
Simulated Log                15-Sep-2009 13:38  000:02                       MPBT_066LUP
    OP Checked MPBT toolstring
Log Pass (down)              15-Sep-2009 15:06  000:13   4004.9 -  4073.3    MPBT_073LDP
    MPBT Correlation pass
Simulated Log                15-Sep-2009 15:21  000:34                       MPBT_074LUP
    MPBT Setting record
Simulated Log                16-Sep-2009  8:12  000:34                       PERFO_079LUP
    OP checked DB for Water run
Log Pass (up)                16-Sep-2009  9:45  000:09   4071.7 -  4012.7    PERFO_081LUP
    Water dumping pass
Simulated Log                16-Sep-2009 11:35  000:14                       PERFO_091LUP
    OP checked toolstring for cement run
Log Pass (up)                16-Sep-2009 12:42  000:08   4069.2 -  4013.5    PERFO_093LUP
    Dumped cement
```

Schlumberger

2 1/8" Dump Bailer
Cement dumping record

MAXIS Field Log

Input DLIS Files

DEFAULT	PERFO_093LUP	FN:90	PRODUCER	16−Sep−2009 12:42	4069.2 M	4013.5 M

Output DLIS Files

DEFAULT	PERFO_097PUP	FN:94	PRODUCER	16−Sep−2009 12:57	4071.8 M	4016.0 M

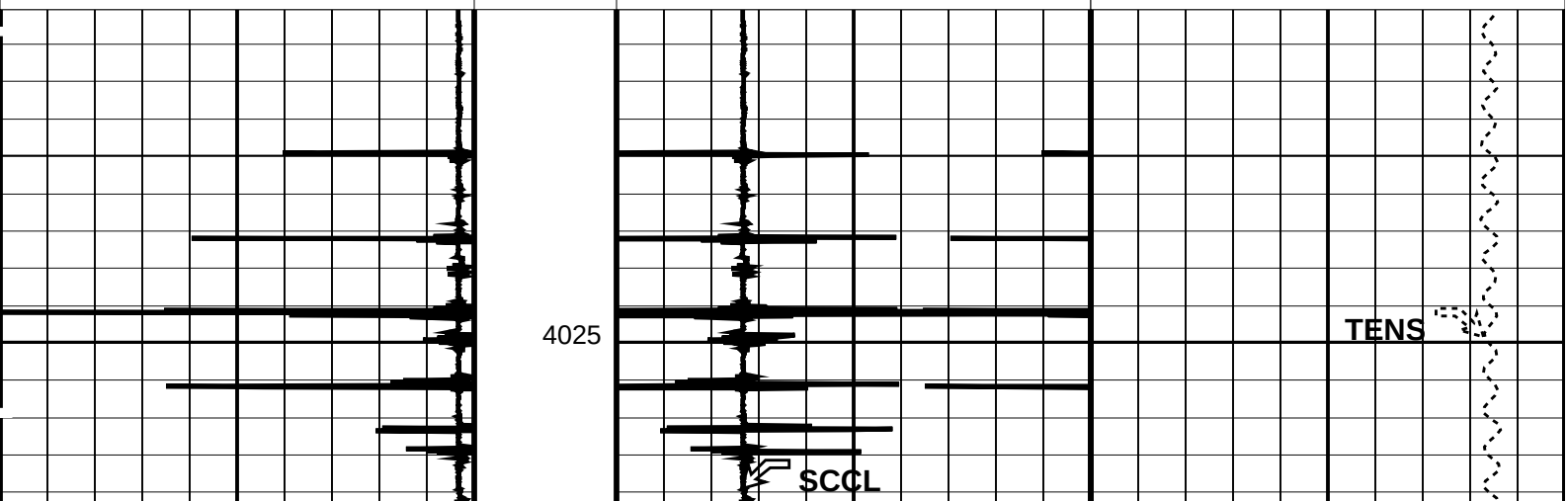
OP System Version: 17C0−154

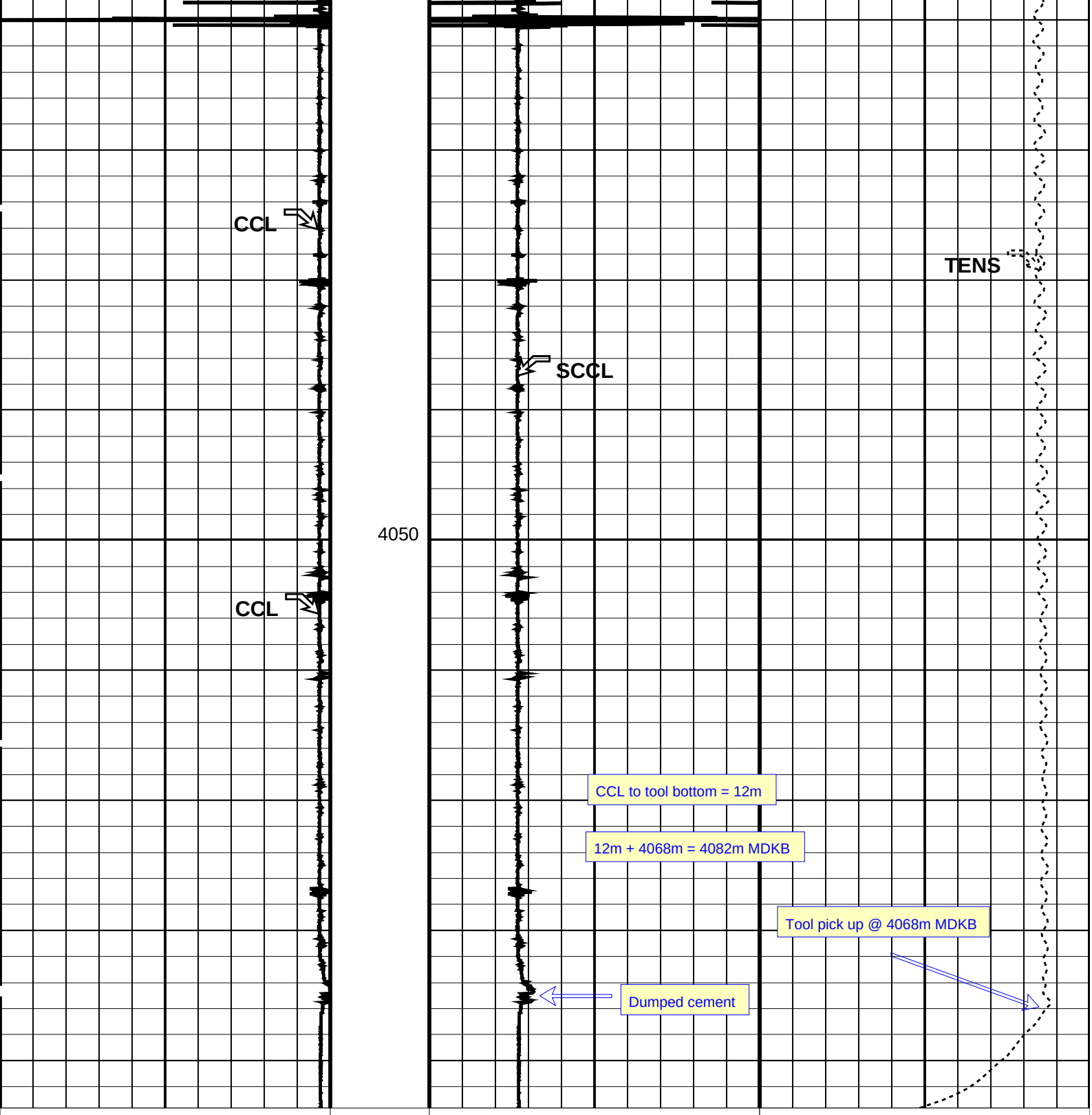
CCL−L	17C0−154	SHM_GUN	17C0−154

PIP SUMMARY

Time Mark Every 60 S

Casing Collar Locator (CCL)		Shifted Casing Collar Locator (SCCL)		Tension (TENS)	
−19	(−−−− 1	−10	(−−−− 10	0	(LBF) 2500





Casing Collar Locator (CCL)	Shifted Casing Collar Locator (SCCL)	Tension (TENS)
−19 (−−−− 1	−10 (−−−− 10	0 (LBF) 2500

PIP SUMMARY

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
	System and Miscellaneous		
DO	Depth Offset for Playback	2.6	M
PP	Playback Processing	NORMAL	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 16−Sep−2009 12:57

OP System Version: 17C0−154

CCL−L	17C0−154	SHM_GUN	17C0−154

Input DLIS Files

DEFAULT	PERFO_093LUP	FN:90	PRODUCER	16−Sep−2009 12:42	4069.2 M	4013.5 M

Output DLIS Files

DEFAULT	PERFO_097PUP	FN:94	PRODUCER	16−Sep−2009 12:57

Schlumberger

2 1/8" Dump Bailer
Water dumping record

MAXIS Field Log

Input DLIS Files

DEFAULT	PERFO_081LUP	FN:78	PRODUCER	16−Sep−2009 09:45	4071.7 M	4012.7 M

Output DLIS Files

DEFAULT	PERFO_086PUP	FN:83	PRODUCER	16−Sep−2009 10:06	4072.7 M	4013.8 M

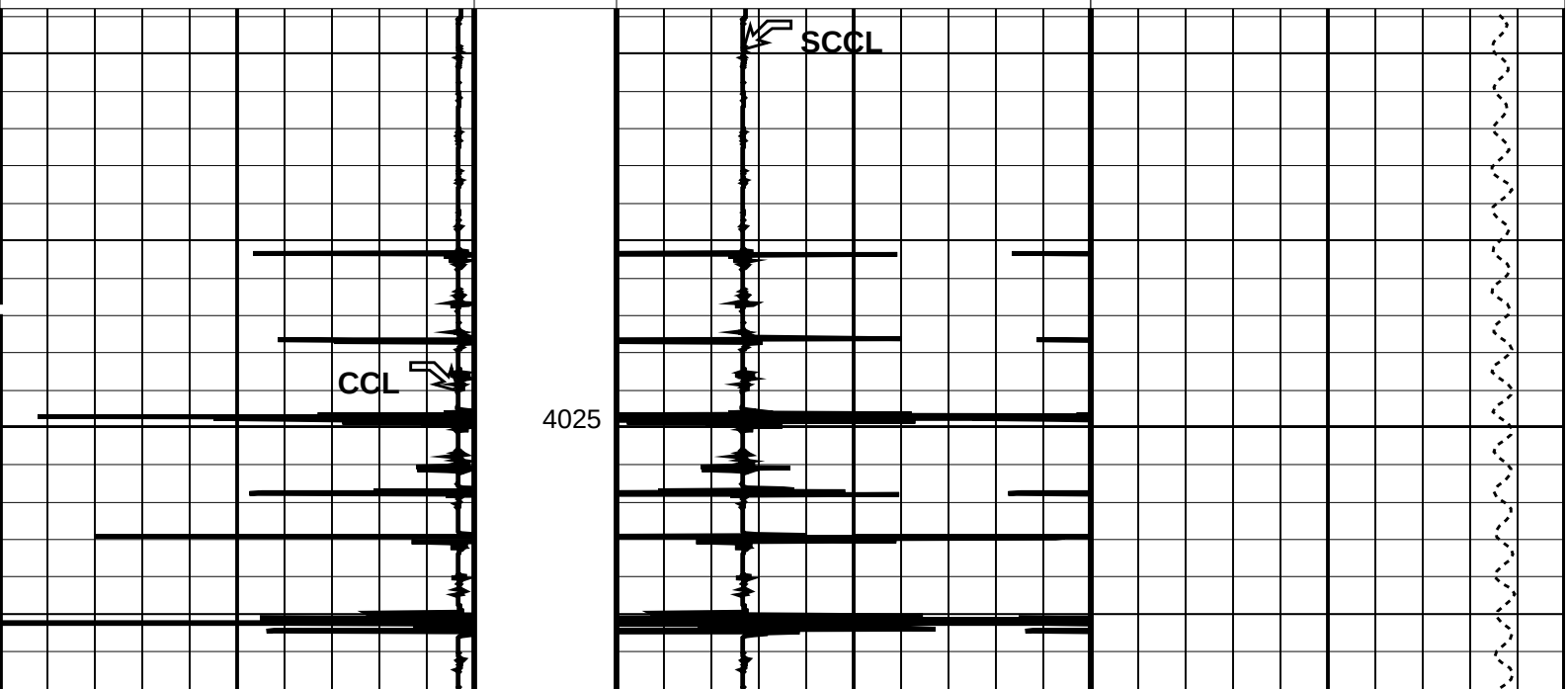
OP System Version: 17C0−154

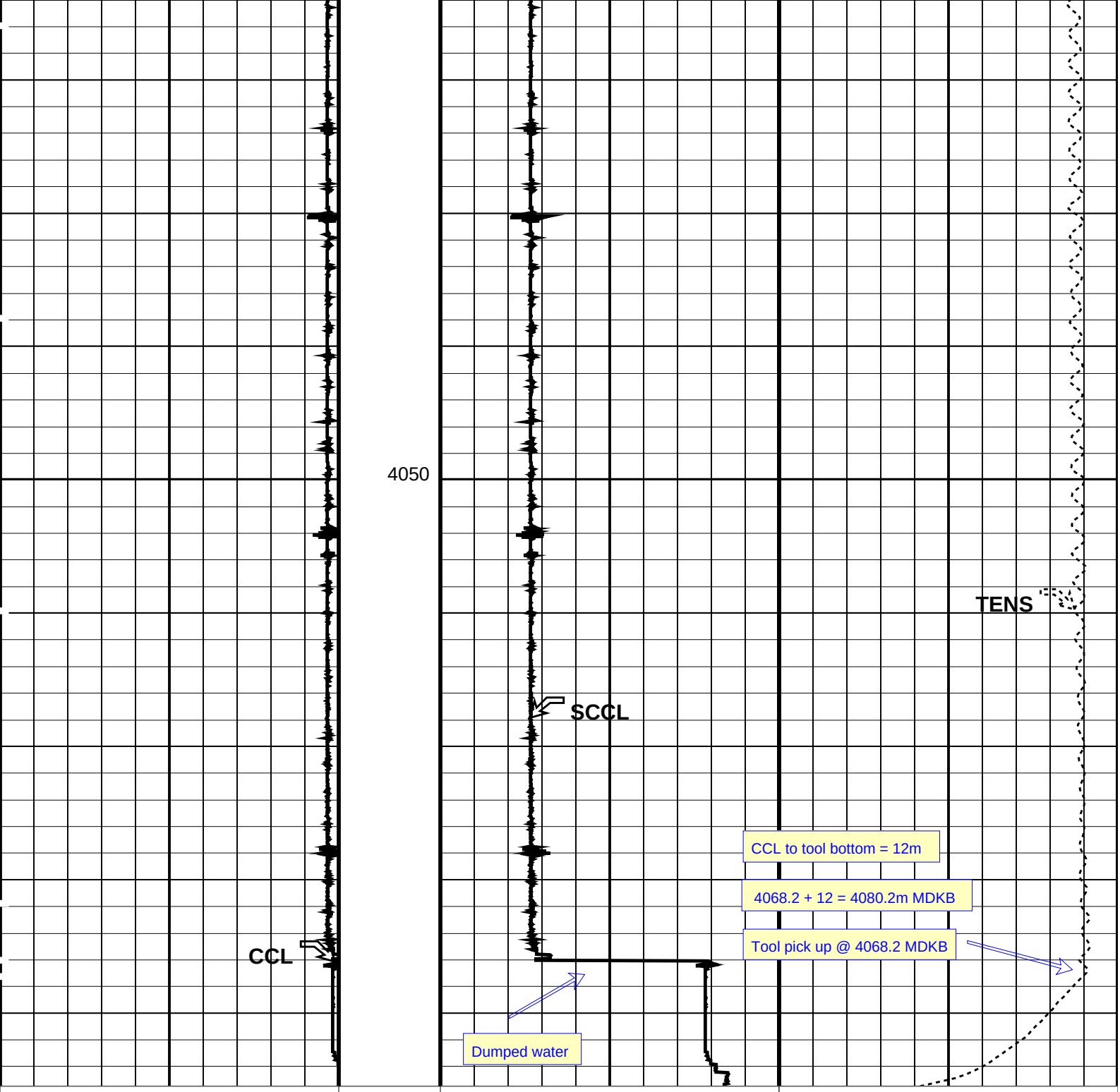
CCL−L	17C0−154	SHM_GUN	17C0−154

PIP SUMMARY

Time Mark Every 60 S

Casing Collar Locator (CCL)		Shifted Casing Collar Locator (SCCL)		Tension (TENS)	
−19	(−−−− 1	−10	(−−−− 10	0	(LBF) 2500





PIP SUMMARY

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
	System and Miscellaneous		
DO	Depth Offset for Playback	1.0	M
PP	Playback Processing	NORMAL	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 16−Sep−2009 10:07

OP System Version: 17C0−154

CCL−L	17C0−154	SHM_GUN	17C0−154

Input DLIS Files

DEFAULT	PERFO_081LUP	FN:78	PRODUCER	16−Sep−2009 09:45	4071.7 M	4012.7 M

Output DLIS Files

DEFAULT	PERFO_086PUP	FN:83	PRODUCER	16−Sep−2009 10:06

Schlumberger

7" Posiset MPBT Plug Setting pass

MAXIS Field Log

Output DLIS Files

DEFAULT	MPBT_074LUP	FN:71	PRODUCER	15−Sep−2009 15:21

OP System Version: 17C0−154

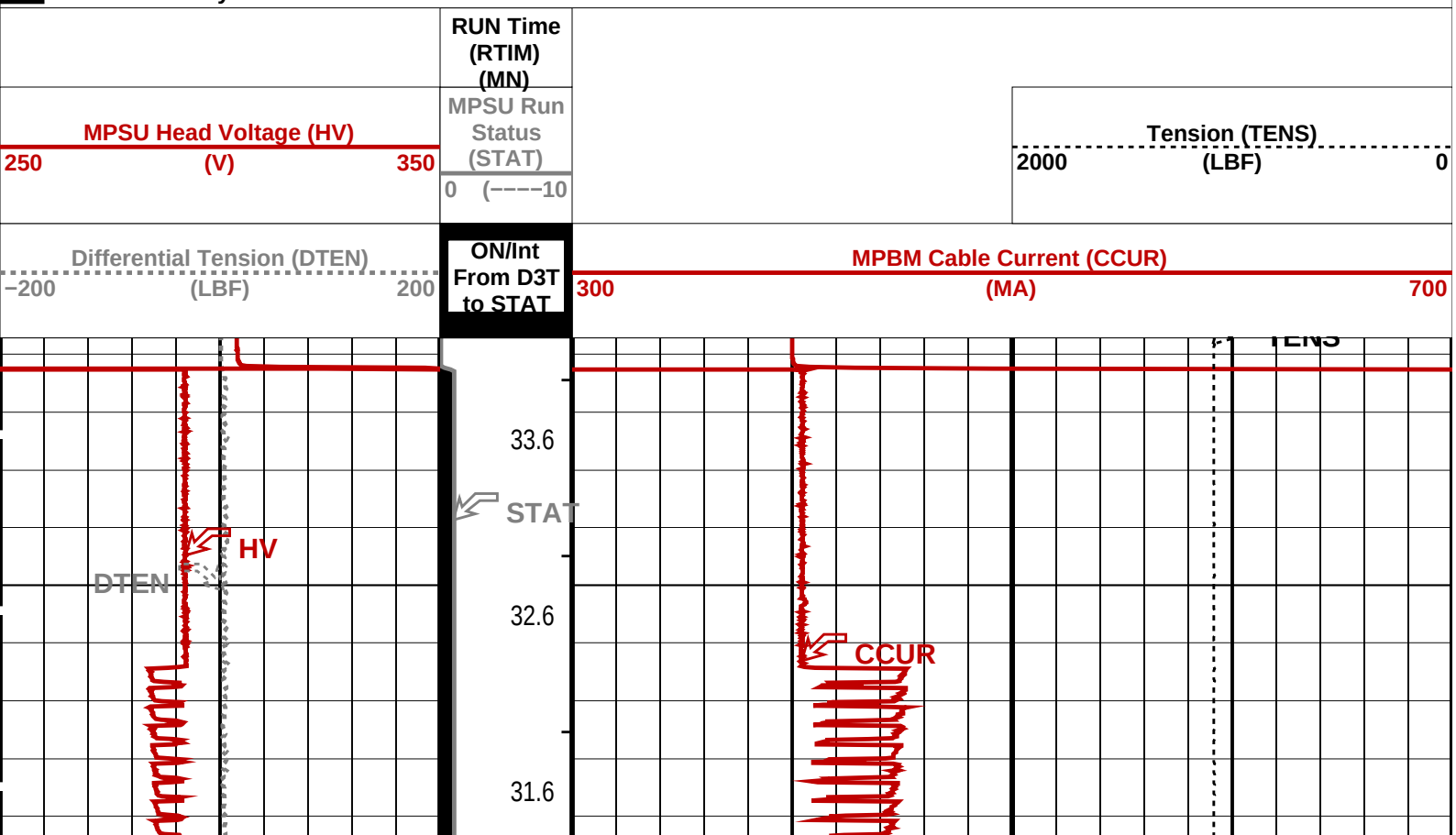
MPEX−BA	17C0−154	MPSU−CA	17C0−154
CCL−L	17C0−154		

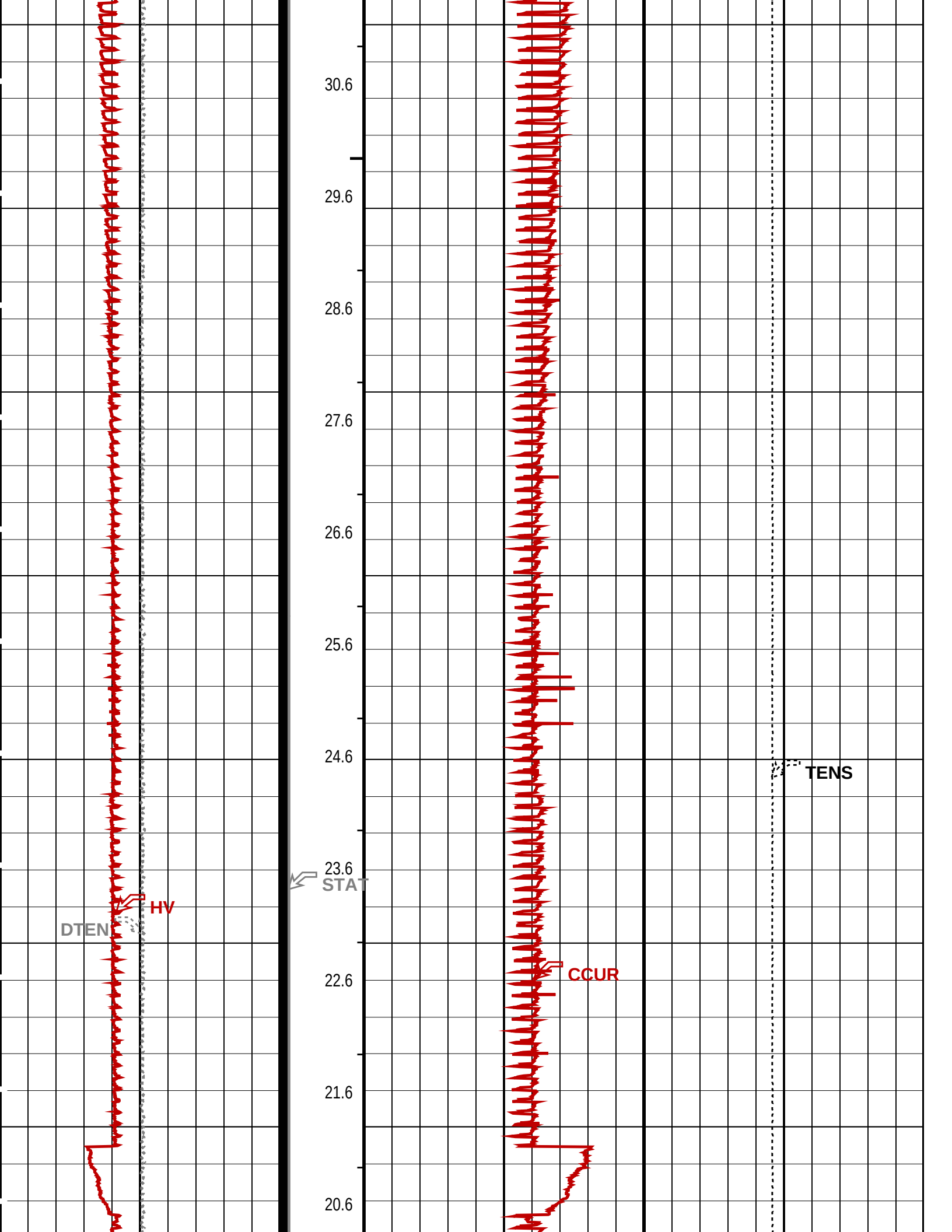
PIP SUMMARY

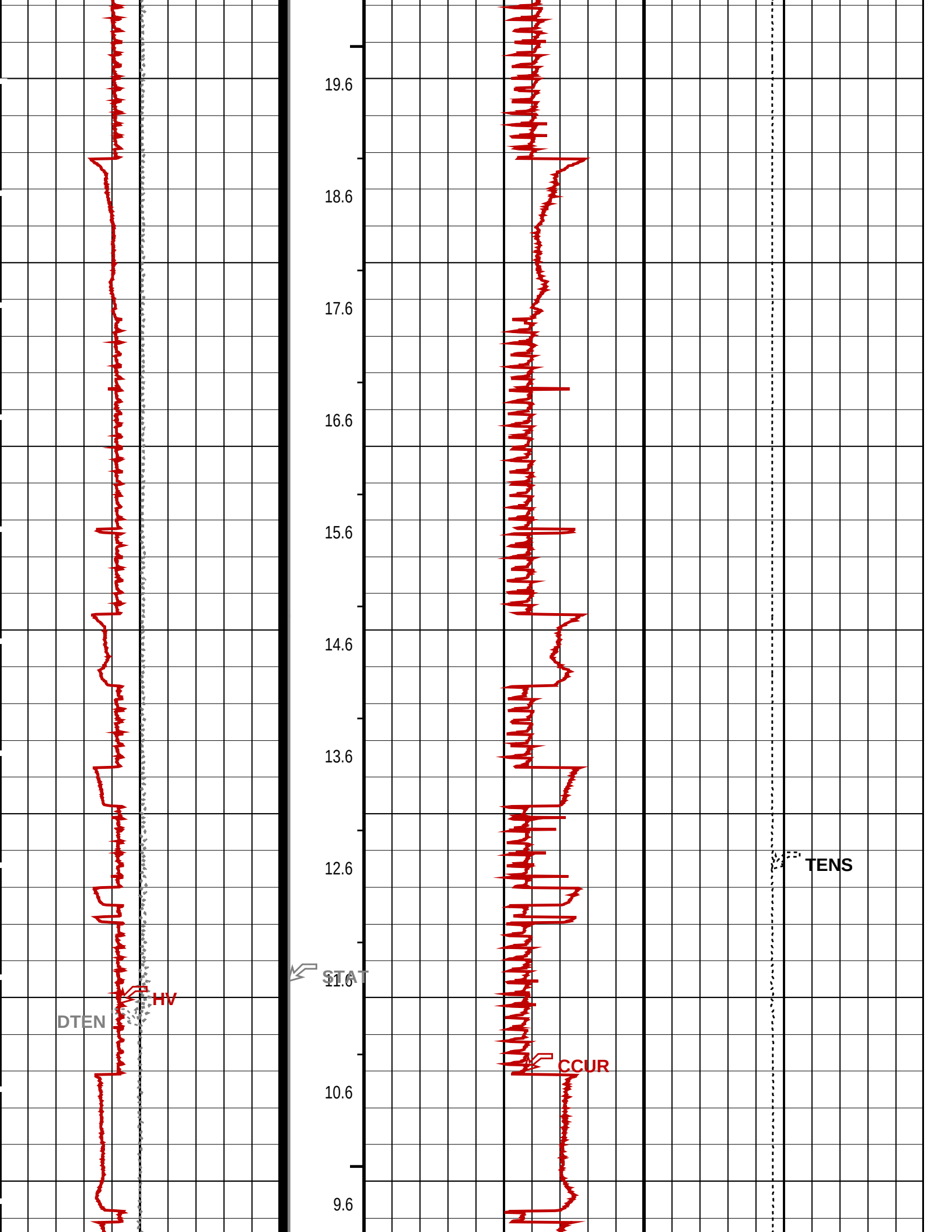
MPSU Run Time Every 1 MN

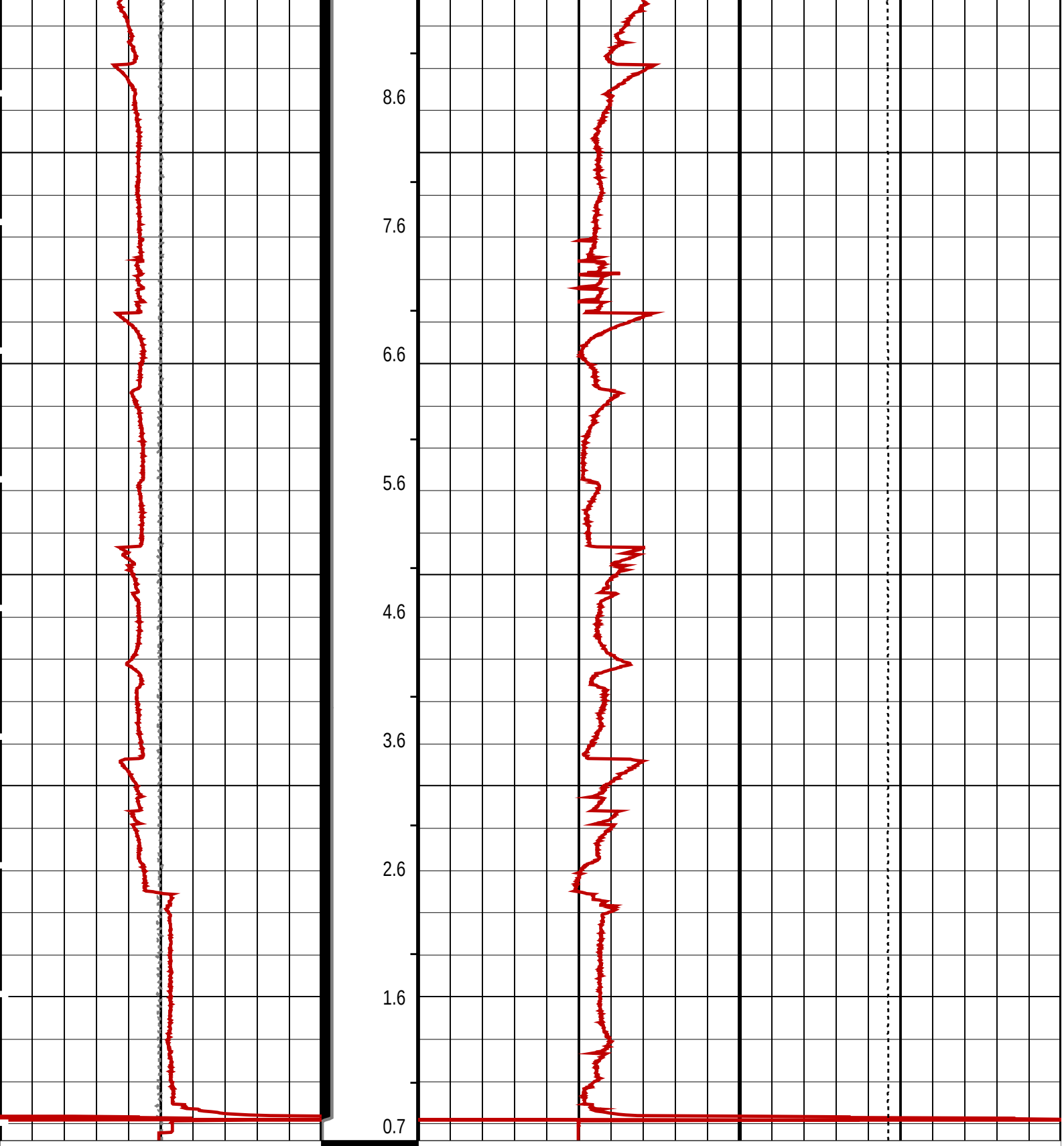
MPSU Run Time Every 10 MN

Time Mark Every 60 S




30.6
29.6
28.6
27.6
26.6
25.6
24.6
23.6
22.6
21.6
20.6
TENS
STAT
HV
DTEN
CCUR


19.6
18.6
17.6
16.6
15.6
14.6
13.6
12.6
11.6
10.6
9.6
TENS
STAT
HV
DTEN
CCUR



Differential Tension (DTEN)
−200 (LBF) 200

ON/Int From D3T to STAT

MPBM Cable Current (CCUR)
300 (MA) 700

MPSU Head Voltage (HV)
250 (V) 350

MPSU Run Status (STAT)
0 (−−−−10

Tension (TENS)
2000 (LBF) 0

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−CA: MECHANICAL PLUGBACK SETTING UNIT	
IPUMP	Intensifier Pump	TRUE

Format: MPBT Vertical Scale: 1:600 Graphics File Created: 15−Sep−2009 15:21

OP System Version: 17C0−154

MPEX−BA	17C0−154	MPSU−CA	17C0−154
CCL−L	17C0−154		

Output DLIS Files

DEFAULT	MPBT_074LUP	FN:71	PRODUCER	15−Sep−2009 15:21

Schlumberger

7" Posiset MPBT Plug Correlation pass

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_MPBT_098LUP	PRODUCER	16−Sep−2009 13:04	4073.3 M	4004.9 M

Output DLIS Files

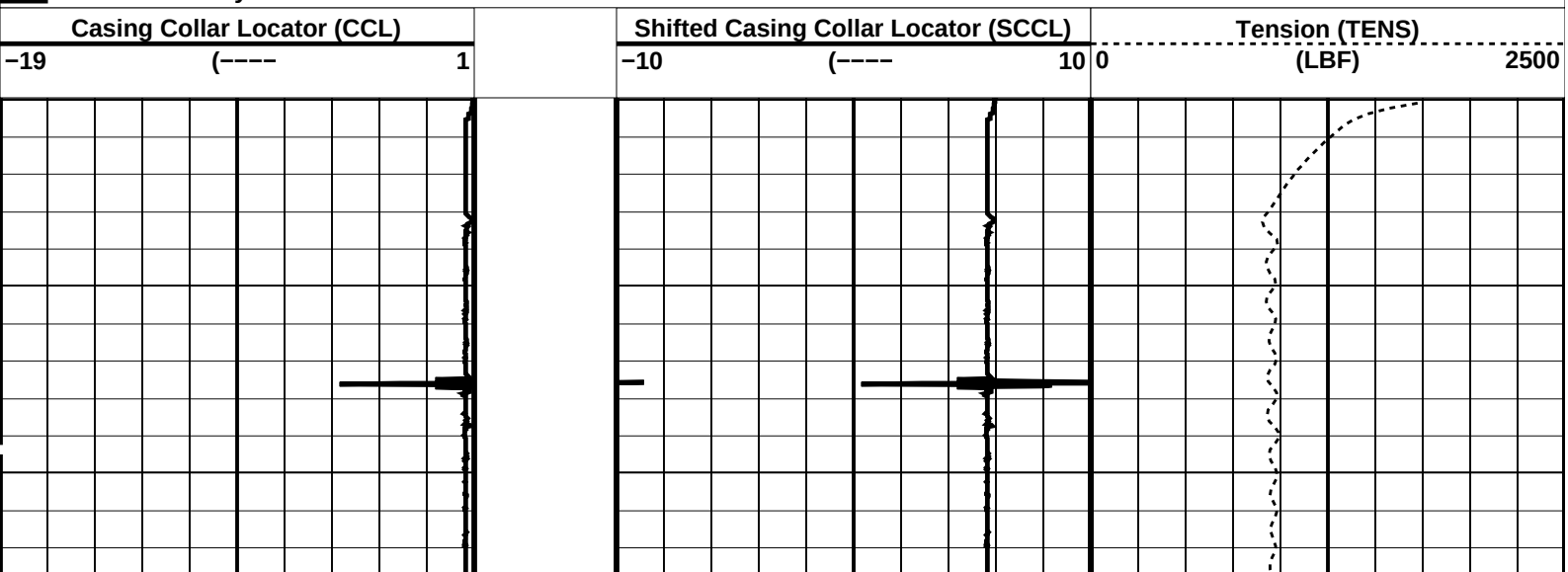
DEFAULT	PERFO_099PUP	FN:95	PRODUCER	16−Sep−2009 13:05	4073.3 M	4004.9 M

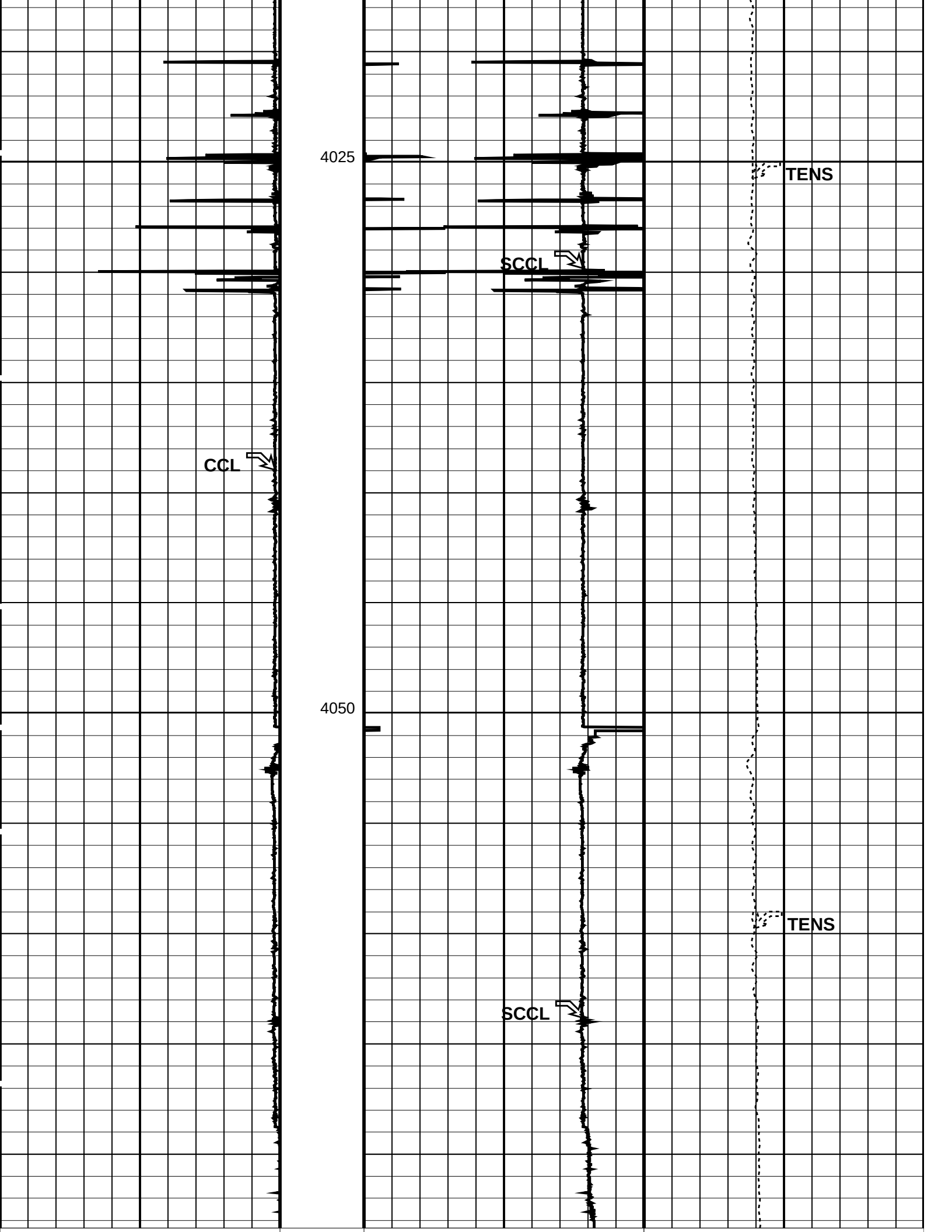
OP System Version: 17C0−154

CCL−L	17C0−154	SHM_GUN	17C0−154

PIP SUMMARY

Time Mark Every 60 S




4025
TENS
SCCL
CCL
4050
TENS
SCCL

Casing Collar Locator (CCL)	Shifted Casing Collar Locator (SCCL)	Tension (TENS)
−19 (−−−− 1	−10 (−−−− 10	0 (LBF) 2500

PIP SUMMARY

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
	System and Miscellaneous		
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 16−Sep−2009 13:05

OP System Version: 17C0−154

CCL−L	17C0−154	SHM_GUN	17C0−154

Input DLIS Files

DEFAULT	Flip_MPBT_098LUP	PRODUCER	16−Sep−2009 13:04	4073.3 M	4004.9 M

Output DLIS Files

DEFAULT	PERFO_099PUP	FN:95	PRODUCER	16−Sep−2009 13:05

Schlumberger

2 1/8" Dummy plug
Correlation pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A−6

Input DLIS Files

DEFAULT	PERFO_060LUP	FN:57	PRODUCER	15−Sep−2009 12:05	4082.3 M	4009.5 M

Output DLIS Files

DEFAULT	PERFO_061PUP	FN:58	PRODUCER	15−Sep−2009 12:13	4084.5 M	4009.2 M

OP System Version: 17C0−154

MWPT−CA	17C0−154	MWGT−AA	17C0−154

PIP SUMMARY

Time Mark Every 60 S

Pressure (SGP) (PSIA)	Tension (TENS)	Temperature (TEMP_MWPT) (DEGF)	Temperature (TEMP_MWPT)
	0 (LBF) 2500		0 (DEGF) 2

CCL
From CCL to T1

Gamma Ray (GR)
0 (GAPI) 200

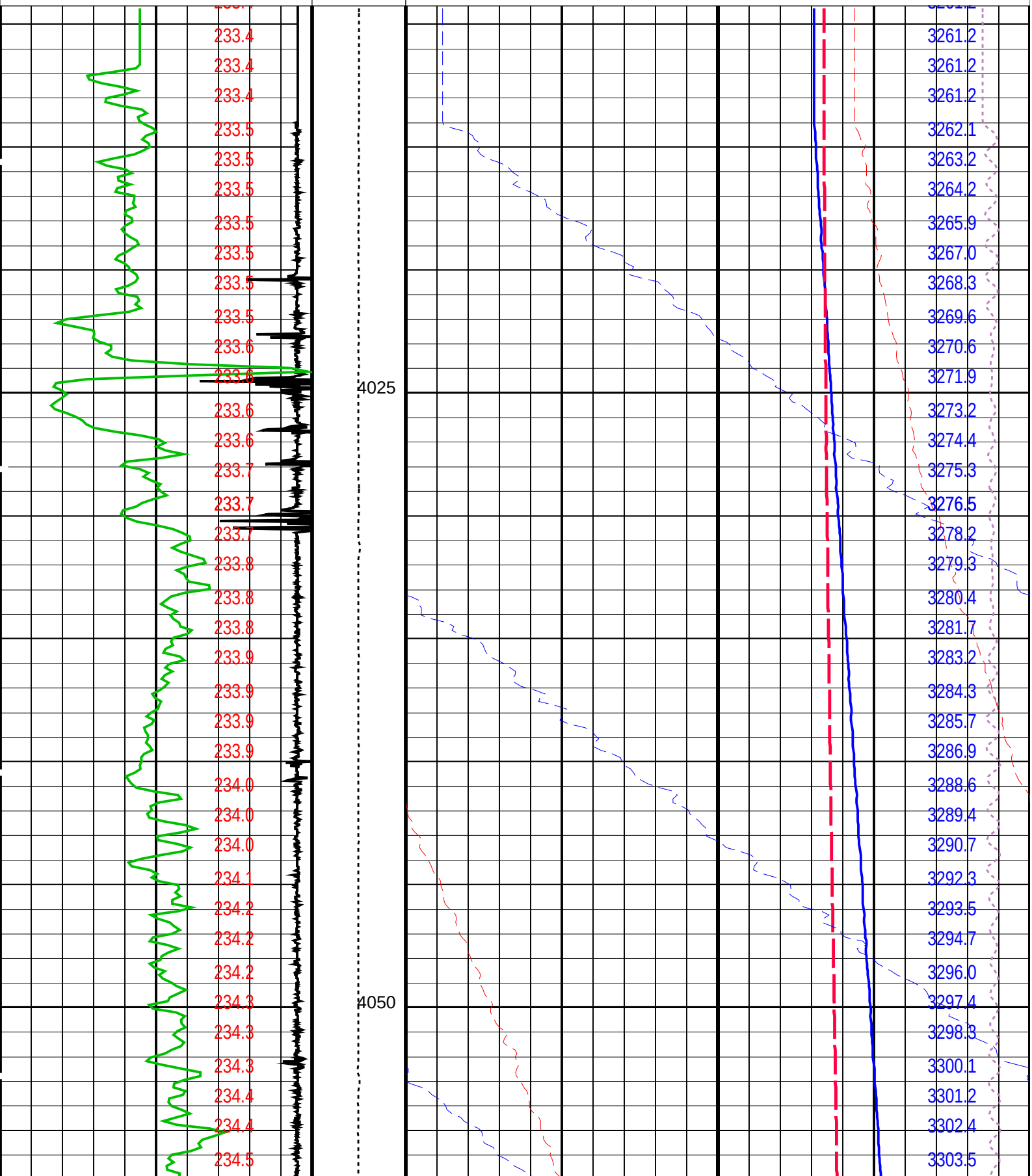
Casing Collar Locator (CCL)
−19 (−−−− 1

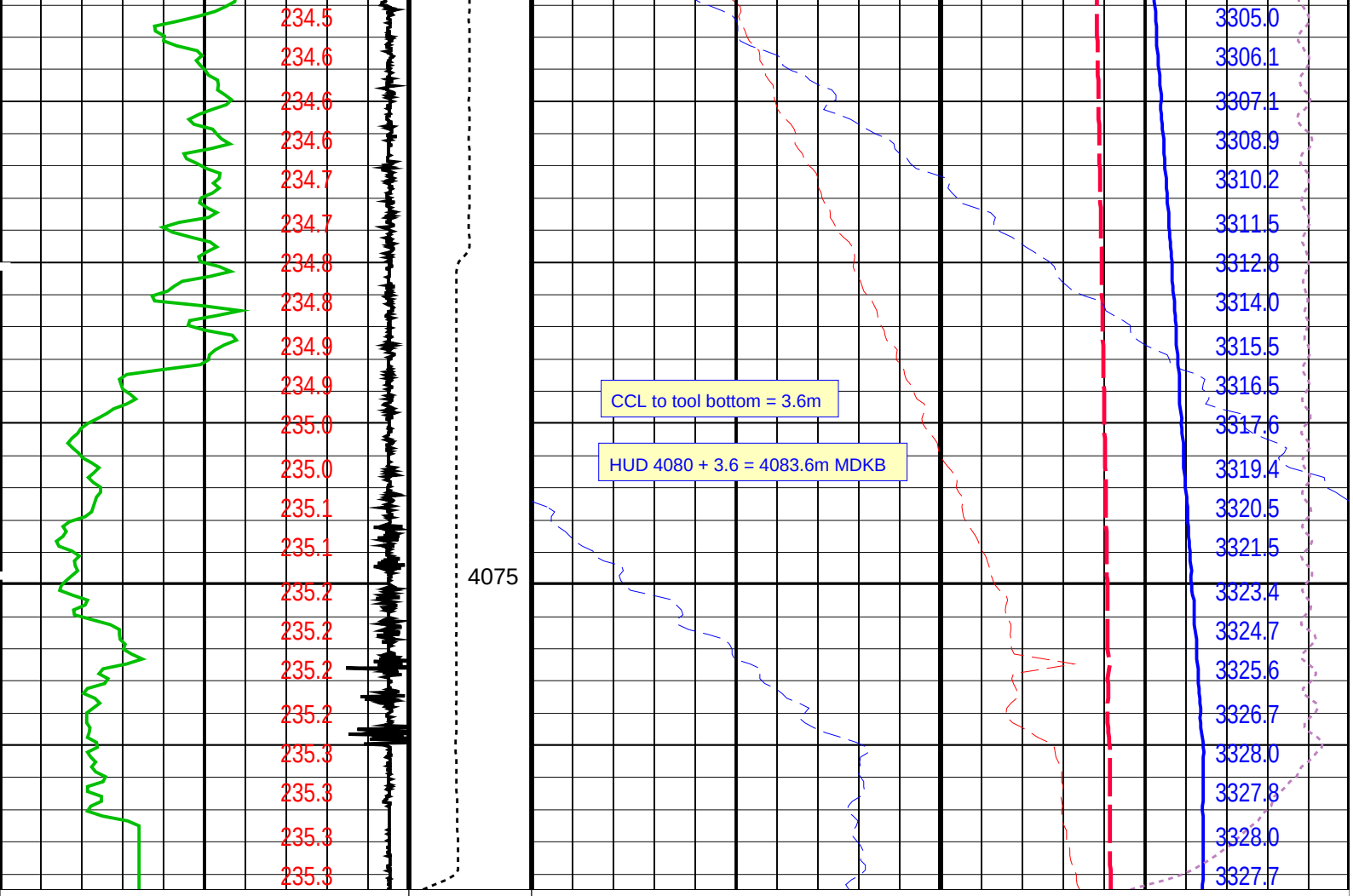
Cable Speed (CS) (F/HR)
0 5000

Strain Gauge Pressure (SGP)
0 (PSIA) 20

Temperature (TEMP_MWPT)
200 (DEGF) 250

Strain Gauge Pressure (SGP)
3000 (PSIA) 3400





Casing Collar Locator (CCL)	Cable Speed (CS) (F/HR)	Strain Gauge Pressure (SGP)
−19 (−−−− 1	0 5000	3000 (PSIA) 3400

Gamma Ray (GR)	Temperature (TEMP_MWPT)
0 (GAPI) 200	200 (DEGF) 250

CCL From CCL to T1	Strain Gauge Pressure (SGP)
	0 (PSIA) 20

Temperature (TEMP_MWPT) (DEGF)	Temperature (TEMP_MWPT)
	0 (DEGF) 2

Tension (TENS)
0 (LBF) 2500

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	2.1	M
PP	Playback Processing	NORMAL	

Format: MWP Vertical Scale: 1:200 Graphics File Created: 15−Sep−2009 12:13

OP System Version: 17C0−154

CP System Version: 17C0-154

MWPT−CA	17C0−154	MWGT−AA	17C0−154

Input DLIS Files

DEFAULT	PERFO_060LUP	FN:57	PRODUCER	15−Sep−2009 12:05	4082.3 M	4009.5 M

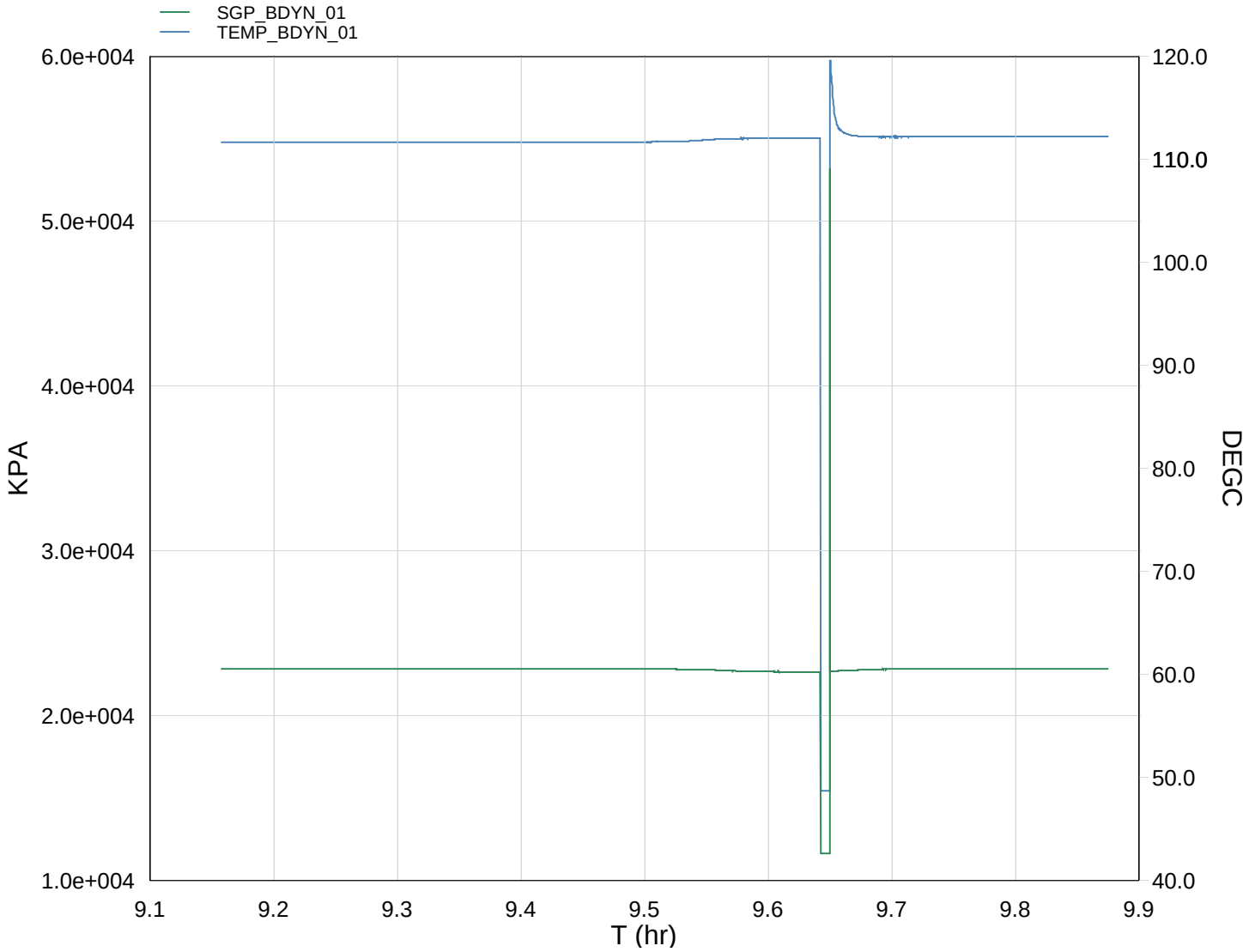
Output DLIS Files

DEFAULT	PERFO_061PUP	FN:58	PRODUCER	15−Sep−2009 12:13

Schlumberger

2 1/8" Phased PowerJet MWPT Station log / well draw down

MAXIS Field Log



TIME	TEMP_MWPT_SL	SGPT_SL
4320.0	233.0445	226.6192
4380.0	233.0317	226.7486
4440.0	233.0267	226.9988
4500.0	233.0375	227.2107
4560.0	233.0466	227.4033
4620.0	233.0544	227.4875
4680.0	233.0501	227.6790
4740.0	233.0530	227.8479
4800.0	233.0535	227.9918
4860.0	233.0614	228.0672
4920.0	233.0576	228.2126
4980.0	233.0576	228.3016
5040.0	233.0588	228.4433
5100.0	233.0629	228.4525
5160.0	233.0795	228.5737
5220.0	233.0701	228.6424
5280.0	233.0632	228.7569
5340.0	233.0763	228.7913
5400.0	233.0731	228.8508
5460.0	233.0757	228.8761
5520.0	233.0915	228.9510
5580.0	233.1136	229.0129
5640.0	233.2738	229.0472
5700.0	233.5119	229.1021
5760.0	233.6429	229.1296
5820.0	233.6899	229.1984
5880.0	233.7121	229.2121
5940.0	233.7270	229.3452
6000.0	233.7340	229.3934
6060.0	236.2241	229.6690
6120.0	234.1059	229.8775
6180.0	233.9757	230.0407
6240.0	233.9675	230.1258
6300.0	233.9722	230.1741
6360.0	233.9973	230.2593
6420.0	233.9857	230.2455
6480.0	233.9971	230.2593
6540.0	233.9971	230.3284
6600.0	233.9836	230.3906
6660.0	234.0029	230.4298
6720.0	233.9786	230.3836
6780.0	233.9909	230.3882
6840.0	233.9772	230.4159

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2 1/8" Phased PowerJet MWPT
Shooting pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_051LUP FN:48 PRODUCER 15-Sep-2009 09:07 4075.2 M 4015.1 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)

Tension (TENS) 0 (LBF) 2000

Temperature (TEMP_MWPT) (DEGF)

Temperature (TEMP_MWPT) 0 (DEGF) 2

CCL From CCL to T1

Strain Gauge Pressure (SGP) 0 (PSIA) 20

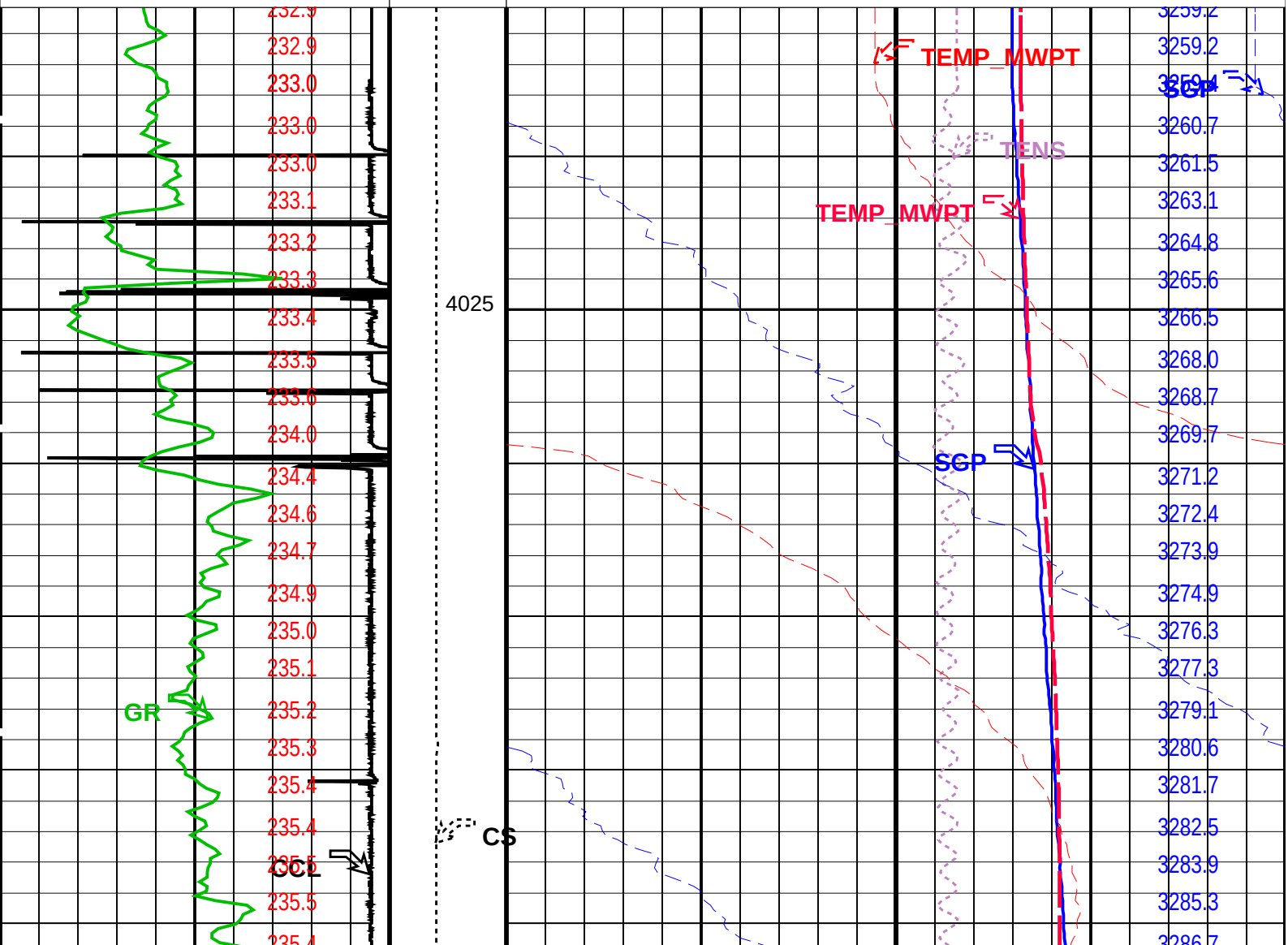
Gamma Ray (GR) 0 (GAPI) 200

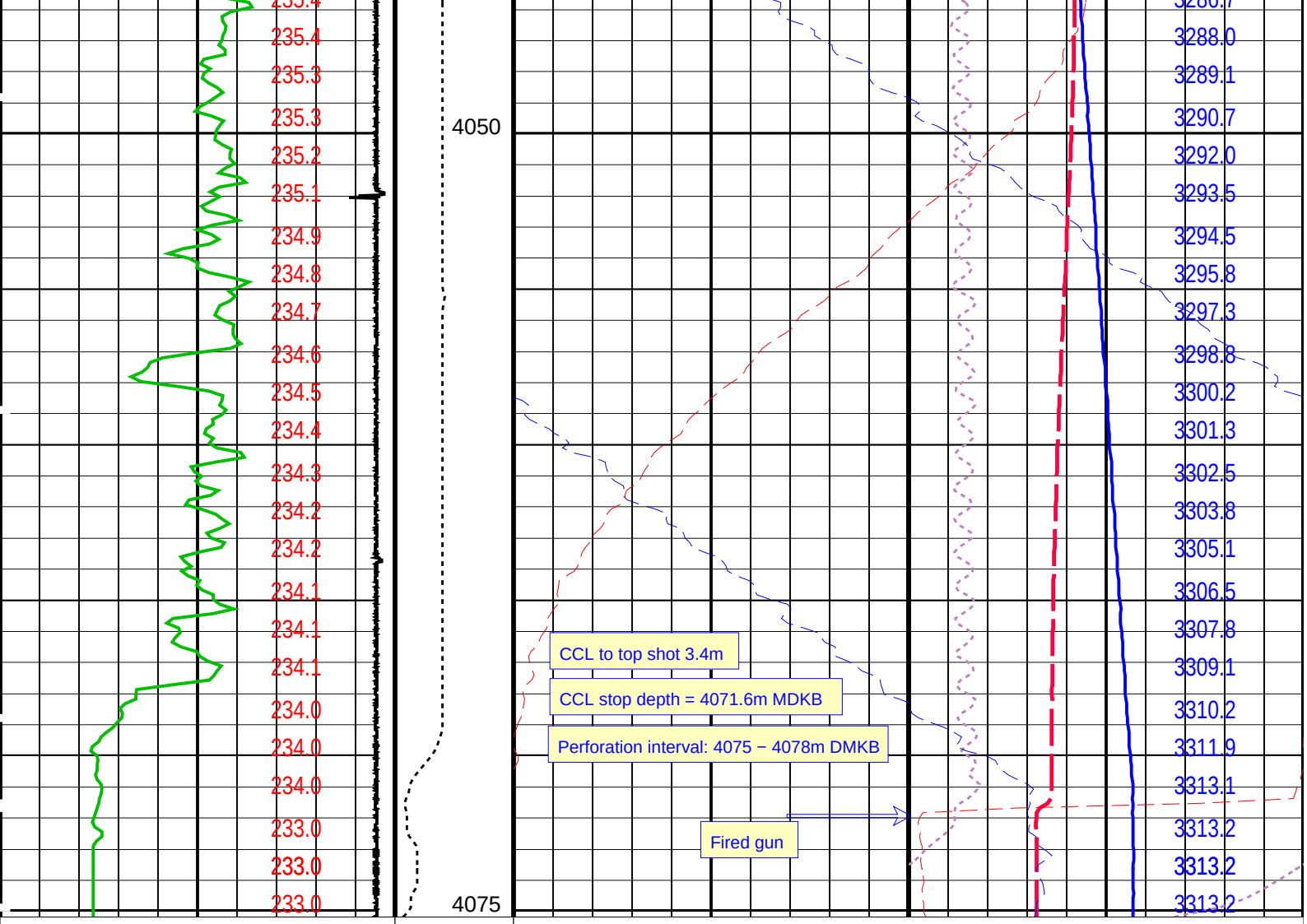
Temperature (TEMP_MWPT) 200 (DEGF) 250

Casing Collar Locator (CCL) -19 (---- 1

Cable Speed (CS) (F/HR) 0 5000

Strain Gauge Pressure (SGP) 3000 (PSIA) 3400





Casing Collar Locator (CCL)	Cable Speed (CS) (F/HR)	Strain Gauge Pressure (SGP) (PSIA)
−19 (−−−− 1	0 5000	3000 3400

Gamma Ray (GR) (GAPI)	Temperature (TEMP_MWPT) (DEGF)
0 200	200 250

CCL From CCL to T1	Strain Gauge Pressure (SGP) (PSIA)
	0 20

Temperature (TEMP_MWPT) (DEGF)	Temperature (TEMP_MWPT) (DEGF)
	0 2

Tension (TENS) (LBF)	Pressure (SGP) (PSIA)
0 2000	

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: 15−Sep−2009 09:07

OP System Version: 17C0−154

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

Output DLIS Files

DEFAULT	PERFO_051LUP	FN:48	PRODUCER	15−Sep−2009 09:07	

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2 1/8" Phased PowerJet MWPT Correlation log

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A−6

Output DLIS Files

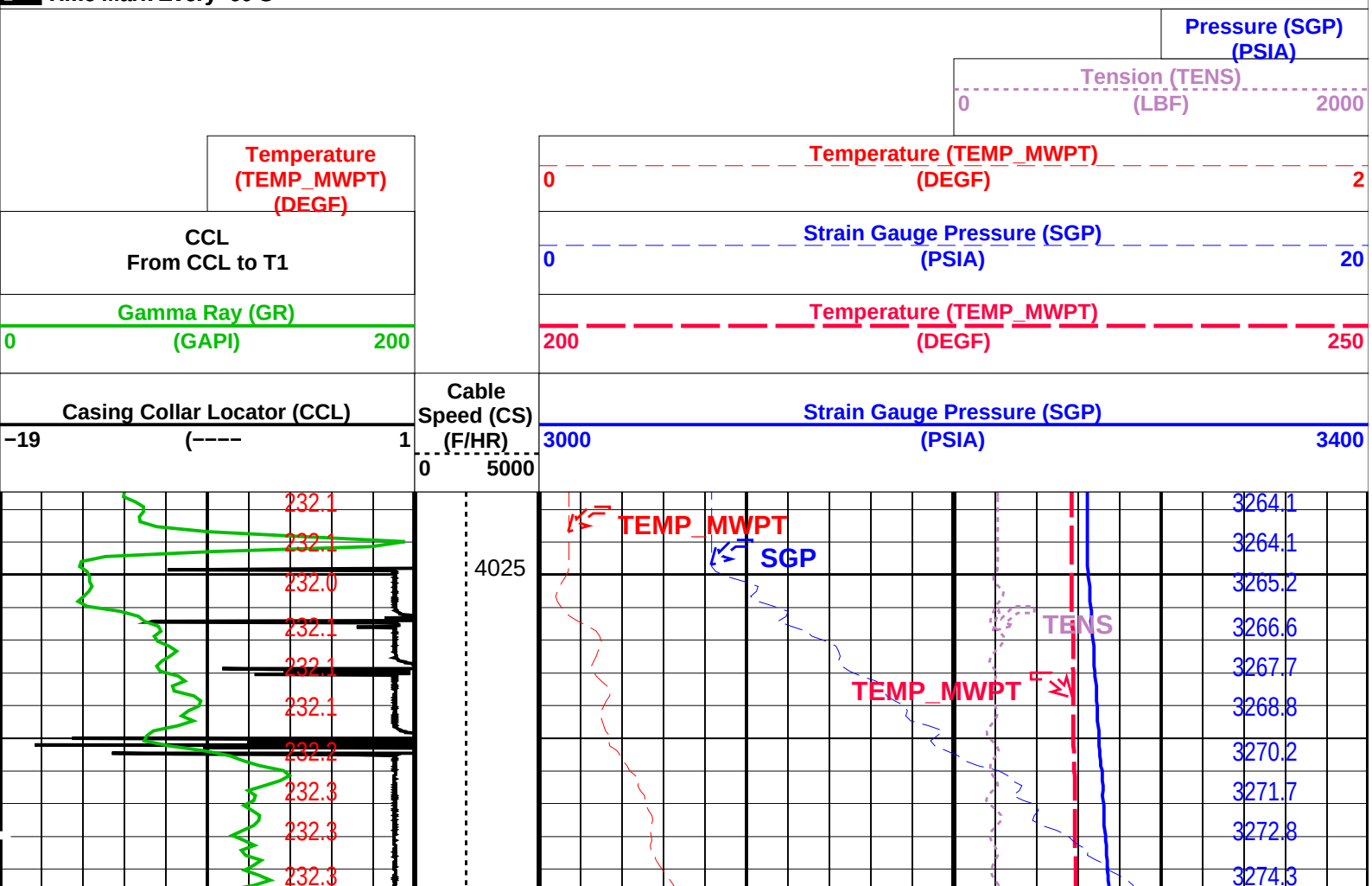
DEFAULT	PERFO_050LUP	FN:47	PRODUCER	15−Sep−2009 08:57	4075.2 M	4022.4 M

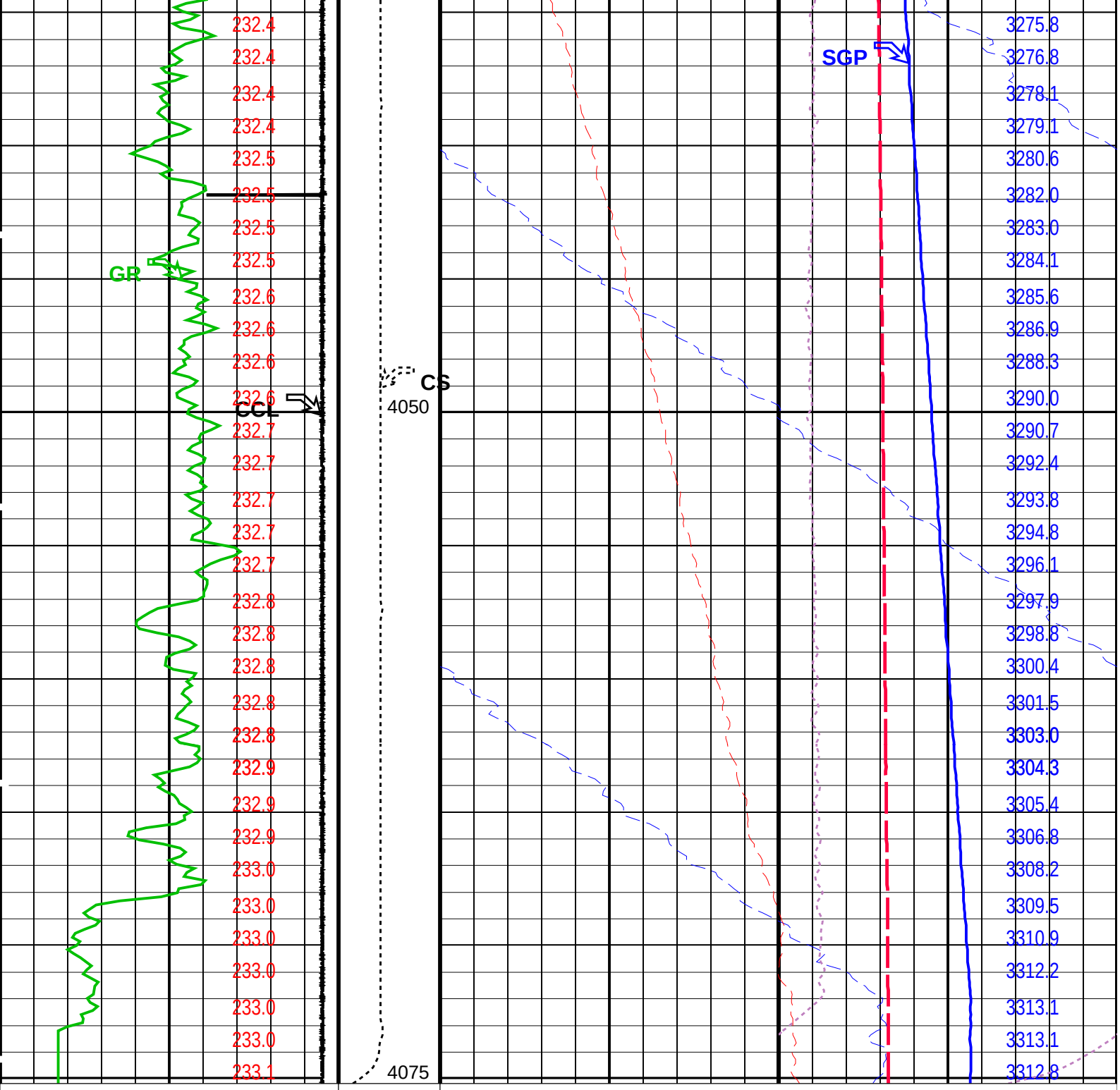
OP System Version: 17C0−154

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

PIP SUMMARY

Time Mark Every 60 S





Casing Collar Locator (CCL)	Cable Speed (CS) (F/HR)	Strain Gauge Pressure (SGP)
−19 (−−−− 1	0 5000	3000 (PSIA) 3400

Gamma Ray (GR)	Temperature (TEMP_MWPT)
0 (GAPI) 200	200 (DEGF) 250

CCL From CCL to T1	Strain Gauge Pressure (SGP)
	0 (PSIA) 20

Temperature (TEMP_MWPT) (DEGF)	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: 15−Sep−2009 08:57

OP System Version: 17C0−154

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

Output DLIS Files

DEFAULT	PERFO_050LUP	FN:47	PRODUCER	15−Sep−2009 08:57

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MWPT GR Cailbration Listing

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration − Detector Calibration							
Before: 14−Sep−2009 16:32 After: 14−Sep−2009 16:35							
Gamma Ray (Signal) Background	30.00	N/A	4.113	4.030	−0.08312	N/A	GAPI
Gamma Ray (Jig − Background)	105.6	N/A	105.6	103.2	−2.394	9.597	GAPI
Gamma Ray (Calibrated)	125.0	N/A	125.0	122.2	−2.835	15.00	GAPI

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL / Equipment Identification

Primary Equipment:

GAMMA RAY CARTRIDGE	MWPG − AA	24029

Auxiliary Equipment:

GAMMA RAY HOUSING	MWGH − AA	69

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration

Detector Calibration

Phase	Gamma Ray (Signal) Background GAPI	Value	Phase	Gamma Ray (Jig − Background) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		4.113	Before		105.6	Before		125.0
After		4.030	After		103.2	After		122.2
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	95.97 (Minimum)	105.6 (Nominal)	115.2 (Maximum)	110.0 (Minimum)	125.0 (Nominal)	140.0 (Maximum)

Before: 14−Sep−2009 16:32 After: 14−Sep−2009 16:35

Company:	**Esso Australia Pty Ltd.**
Well:	**A−6**
Field:	**Flounder**
Rig:	**Crane / Prod4**
Country:	**Australia**

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