Schlumberger

Company: **Esso Australia Ltd.**

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

4 1/2" MPBT Plug Setting Record

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

LOCATION

Gippsland	Elev.:	K.B.	32.2 m
Basin		G.L.	−59 m
Bass Strait		D.F.	32.2 m

Permanent Datum:	M.S.L	Elev.:	0 m
Log Measured From:	D.F	32.8 m	above Perm. Datum
Drilling Measured From:	D.F		

State:	Max. Well Deviation	Longitude	Latitude
Victoria	65 deg	147 46'20.326" E	038 29'58.846" S

						Run 1
PVT DATA					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		9−May−2006			Logging Date	
Run Number		2 thru 5			Run Number	
Depth Driller		2733 m			Depth Driller	
Schlumberger Depth		2590 m			Schlumberger Depth	
Bottom Log Interval		2585 m			Bottom Log Interval	
Top Log Interval		2582 m			Top Log Interval	
Casing Fluid Type		Production Fluids			Casing Fluid Type	
Salinity					Salinity	
Density					Density	
Fluid Level					Fluid Level	
BIT/CASING/TUBING STRING					BIT/CASING/TUBING STRING	
Bit Size		5.500 in			Bit Size	
From		11 m			From	
To		2326 m			To	
Casing/Tubing Size		4.500 in			Casing/Tubing Size	
Weight		12.6 lbm/ft			Weight	
Grade		L−80			Grade	
From		2291.6 m			From	
To		2683 m			To	
Maximum Recorded Temperatures		208 degf			Maximum Recorded Temperatures	
Logger On Bottom	Time	9−May−2006	6:30		Logger On Bottom	Time
Unit Number	Location	LEE001	AUSL		Unit Number	Location
Recorded By		G Wright & P Tarrant			Recorded By	
Witnessed By		B White & B Robinson			Witnessed By	

DEPTH SUMMARY LISTING

Date Created: 8−MAY−2006 22:43:49

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−H	Type:	CMTD−B/A	Type:	2−23ZT
Serial Number:	797	Serial Number:	1037	Serial Number:	22372
Calibration Date:	01 May 2005	Calibration Date:	01 Apr 2006	Length:	5049.93 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1174	Conveyance Method:	Wireline
Calibration Cable Type:	2−32ZT	Calibration Gain:	1.37	Rig Type:	Offshore_Fixed
Wheel Correction 1:	−3	Calibration Offset:	635.00		
Wheel Correction 2:	−3				

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Log
Reference Log Run Number:	Unknown
Reference Log Date:	31 Jan 2005
Subsequent Trip Down Log Correction:	

Depth Control Remarks

1.
2.
3.
4.
5.
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: 2 1/8" Phased
OS2: Powerjet
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil Solar correlation composite log supplied
by K Kuttan.
Maximum well deviation = 65 degrees at 1656.2m MDKB.
Run one,dummy plug to HUD at 2597m MDKB.
Run two,4 1/2" Mpbt plug set at 2588m MDKB.
Runs 3 & 4 were fresh water and cement dumped on top of the plug.
SBHP = 2641.5 psia,SBHT = 207.4 degf.

Crew :

John Light & Andy Hall (days)

Gary Martin & Rick Murray (nights)

RUN 1

SERVICE ORDER #: AUSL06103815
PROGRAM VERSION: 14C0−302
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

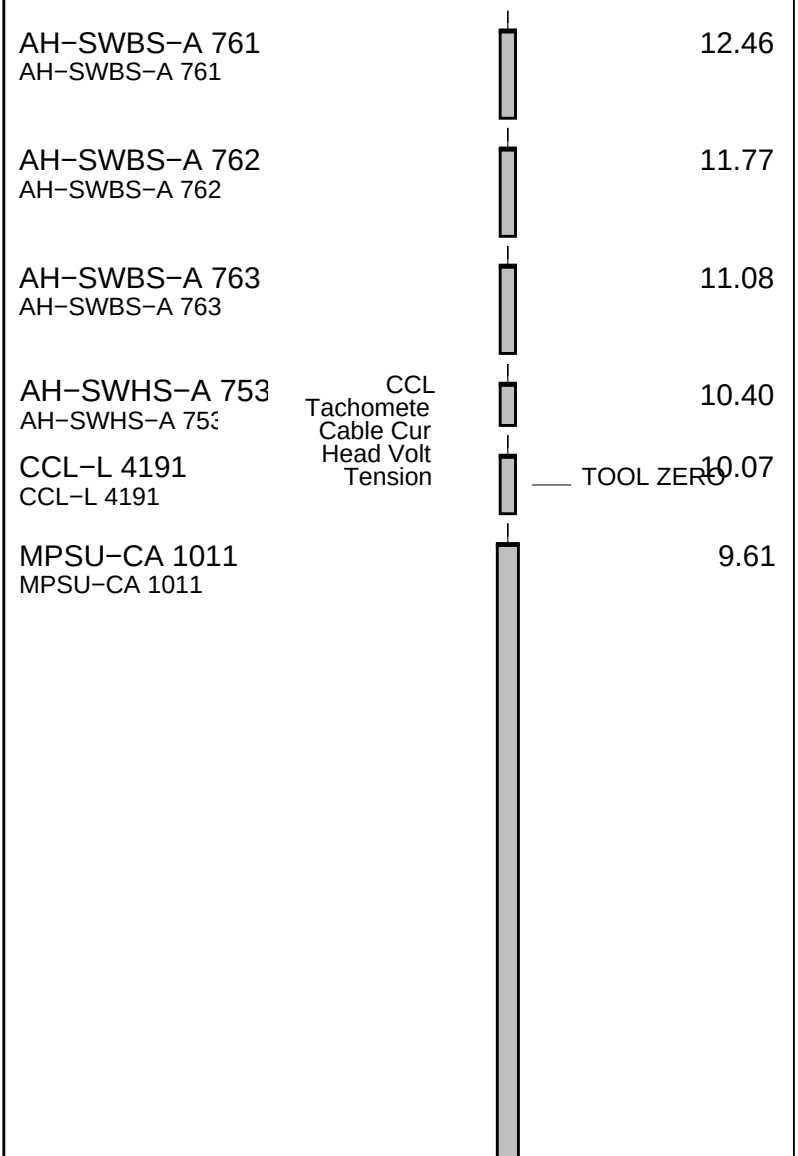
EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

MPBM

DOWNHOLE EQUIPMENT



MPEX−DA 7
MPEX−DA 7

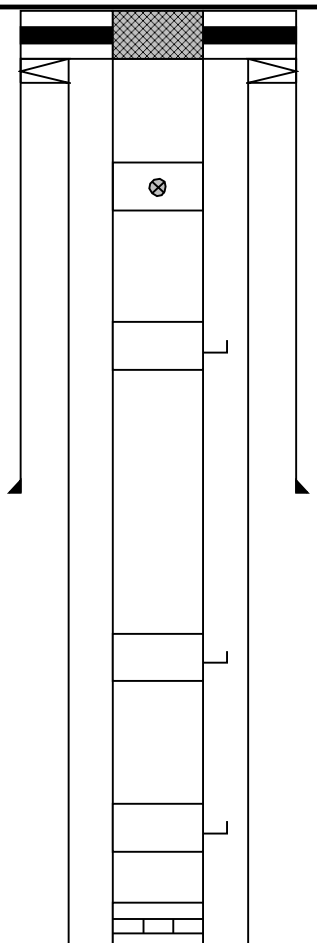
3.20

TOOL BOTTOM

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

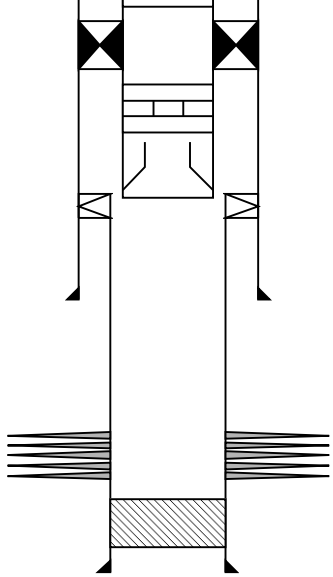
Production String	(in) OD	(in) ID	(m) MD
Tubing Hanger	10.750	3.500	15.0
Tubing	3.500		15.0
Shutin Valve	3.500		464.0
Gas Lift Mandrel	3.500		1138.5
Gas Lift Mandrel	3.500		1814.6
Gas Lift Mandrel	3.500		2064.4
Nipple	3.500		2252.5

Well Schematic



(m) MD	(in) OD	(in) ID	Casing String
14.1	7.000		Casing String
14.1	10.750	7.000	Liner Hanger
1298.0	10.750		Casing Shoe

Packer	7.000	3.500	2268.4					
Nipple	3.500		2295.5					
Bell Nipple Guide	3.500		2297.8					
					2291.6	4.500		Casing String
					2291.6	7.000	4.500	Liner Hanger
					2455.3	7.000		Casing Shoe
					2592.5			Perforation Zone
					2597.0			PBTD
					2683.0	4.500		Casing Shoe



DEPTH SUMMARY LISTING

Date Created: 8−MAY−2006 22:43:49

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−H	Type:	CMTD−B/A	Type:	2−23ZT
Serial Number:	797	Serial Number:	1037	Serial Number:	22372
Calibration Date:	01 May 2005	Calibration Date:	01 Apr 2006	Length:	5049.93 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1174	Conveyance Method:	Wireline
Calibration Cable Type:	2−32ZT	Calibration Gain:	1.37	Rig Type:	Offshore_Fixed
Wheel Correction 1:	−3	Calibration Offset:	635.00		
Wheel Correction 2:	−3				

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Log
Reference Log Run Number:	Unknown
Reference Log Date:	31 Jan 2005
Subsequent Trip Down Log Correction:	−50000.00 M

Depth Control Remarks

1.

2.
3.
4.
5.
6.

Schlumberger

2 1/8" Dump Bailer
Run 2 − Cement

MAXIS Field Log

Input DLIS Files

DEFAULT	PERFO_038LUP	FN:36	PRODUCER	09−May−2006 12:46	2583.6 M	2505.2 M

Output DLIS Files

DEFAULT	PERFO_040PUP	FN:38	PRODUCER	09−May−2006 12:53	2585.0 M	2507.0 M

OP System Version: 14C0−302

MCM

SHM_GUN	14C0−302	CCL−L	14C0−302

PIP SUMMARY

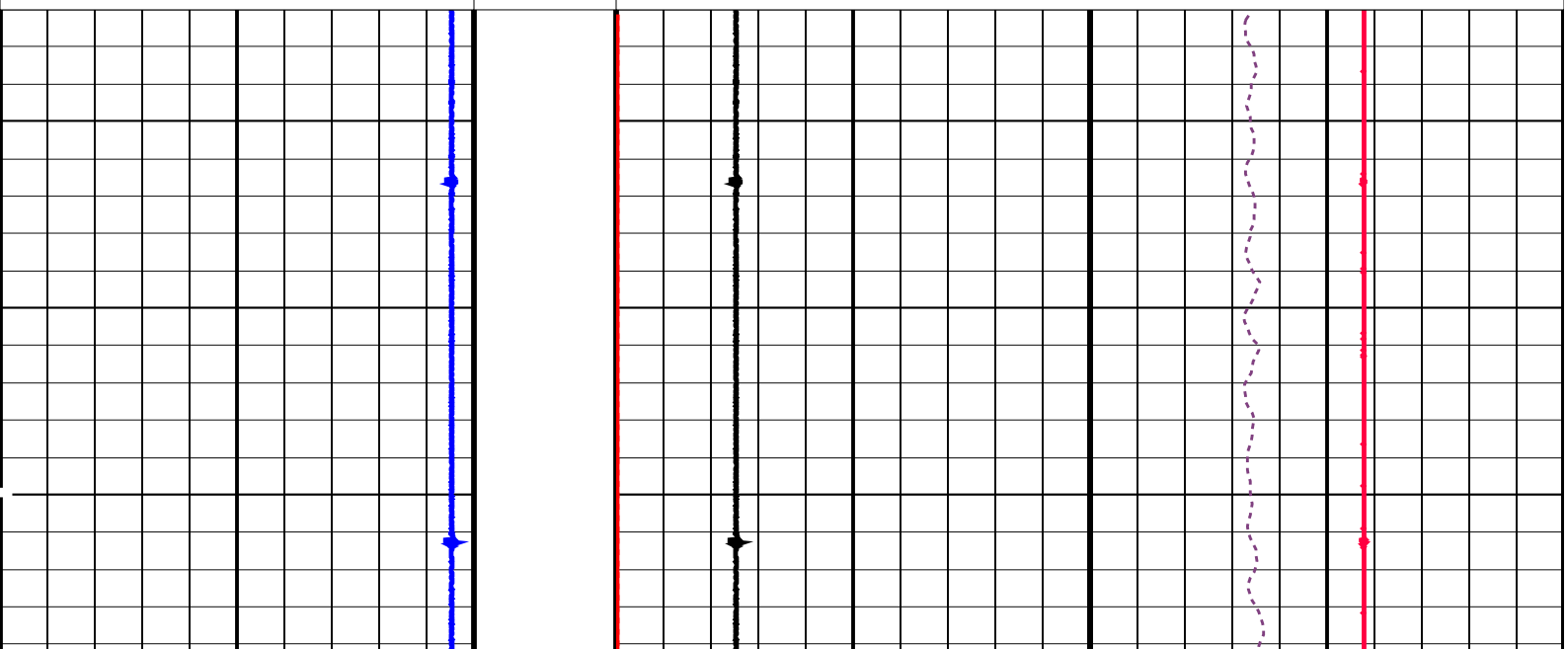
Casing Collars

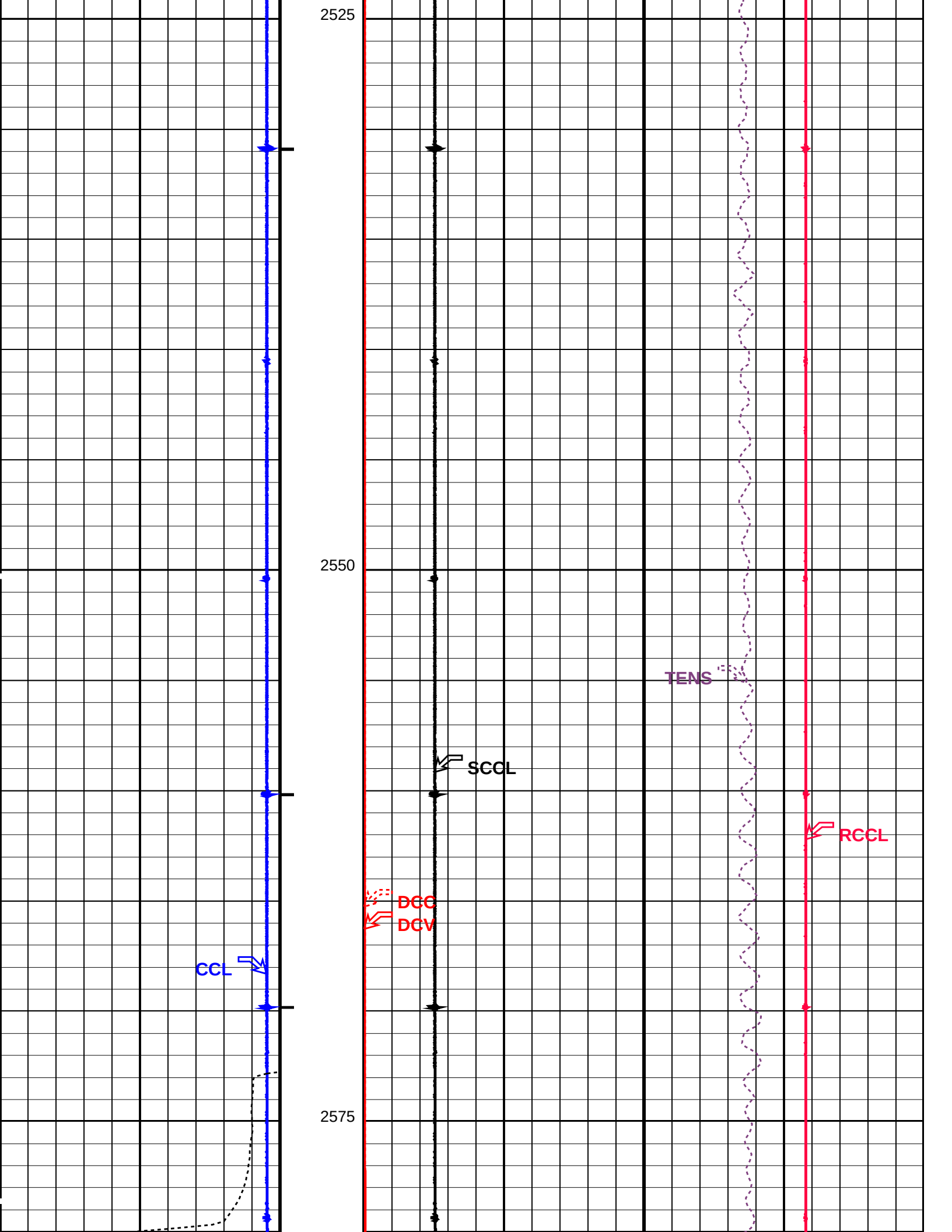
Time Mark Every 60 S

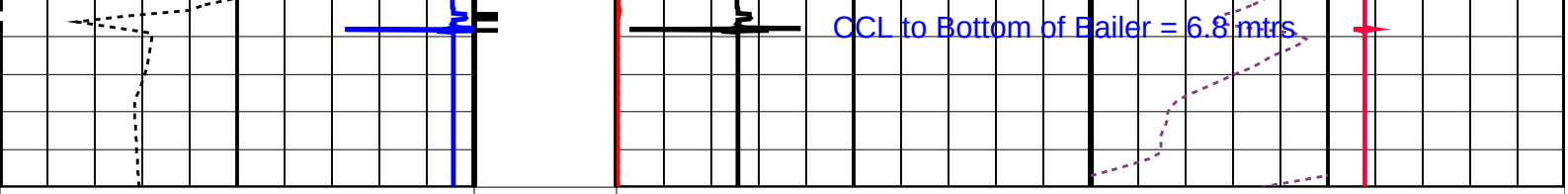
Shifted Casing Collar Locator (SCCL)	Tension (TENS)	Raw Casing Collar Locator (RCCL)
−10 (−−−− 10	0 (LBF) 1000	−3 (−−−− 17

Casing Collar Locator (CCL)	DCMAIN Current (DCC)
−19 (−−−− 1	0 (MA) 2000

Cable Speed (CS)	DCMAIN Voltage (DCV)
0 (F/HR) 5000	0 (V) 200




2525
2550
2575
TENS
SCCL
RCCL
DCC
DCV
CCL



Cable Speed (CS)	0 (F/HR) 5000	
Casing Collar Locator (CCL)	−19 (−−−− 1	
DCMAIN Voltage (DCV)	0 (V) 200	
DCMAIN Current (DCC)	0 (MA) 2000	
Shifted Casing Collar Locator (SCCL)	−10 (−−−− 10	
Tension (TENS)	0 (LBF) 1000	
Raw Casing Collar Locator (RCCL)	−3 (−−−− 17	

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
	System and Miscellaneous		
DO	Depth Offset for Playback	1.3	M
PP	Playback Processing	NORMAL	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 09−May−2006 12:53

OP System Version: 14C0−302

MCM

SHM_GUN 14C0−302 CCL−L 14C0−302

Input DLIS Files

DEFAULT	PERFO_038LUP	FN:36	PRODUCER	09−May−2006 12:46	2583.6 M	2505.2 M

Output DLIS Files

DEFAULT	PERFO_040PUP	FN:38	PRODUCER	09−May−2006 12:53

Schlumberger

2 1/8" Dump Bailer
Run 1 − Water

MAXIS Field Log

Input DLIS Files

DEFAULT	PERFO_034LUP	FN:32	PRODUCER	09−May−2006 10:56	2580.3 M	2530.9 M

Output DLIS Files

DEFAULT	PERFO_035PUP	FN:33	PRODUCER	09−May−2006 11:07	2585.3 M	2536.4 M

OP System Version: 14C0−302

MCM

MCM

SHM_GUN 14C0−302 CCL−L 14C0−302

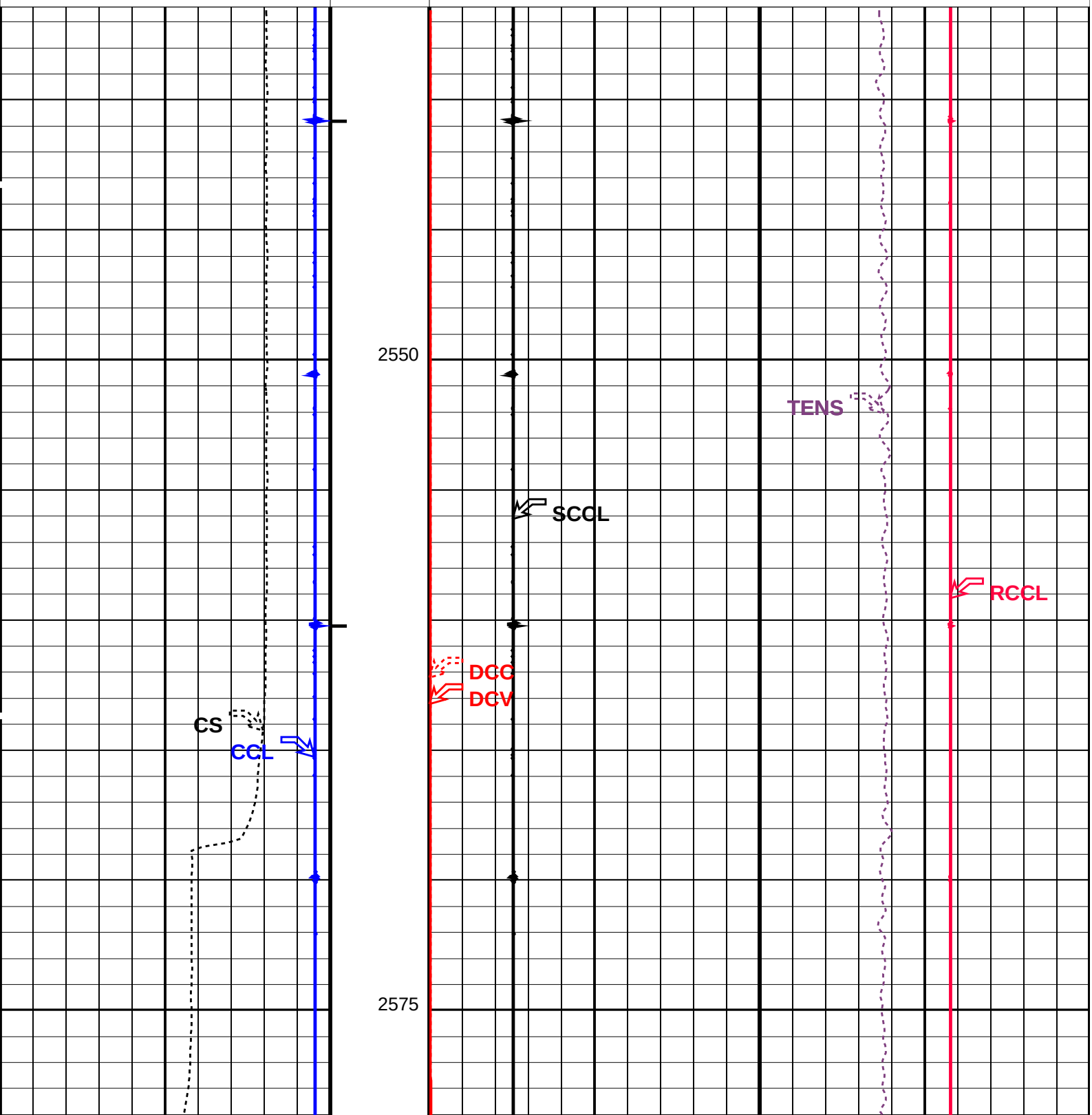
PIP SUMMARY

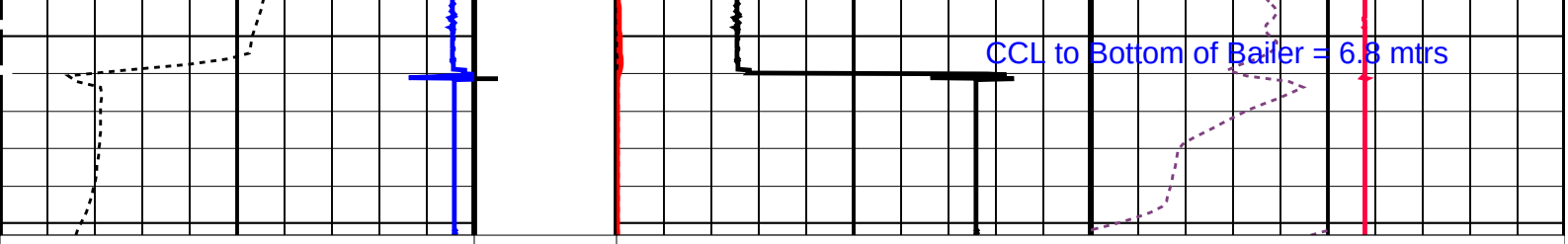
Casing Collars

Time Mark Every 60 S

Casing Collar Locator (CCL)	Shifted Casing Collar Locator (SCCL)	Tension (TENS)	Raw Casing Collar Locator (RCCL)
−19 (−−−− 1	−10 (−−−− 10	0 (LBF) 1000	−3 (−−−− 17

Cable Speed (CS)	DCMAIN Current (DCC)	DCMAIN Voltage (DCV)
0 (F/HR) 5000	0 (MA) 2000	0 (V) 200





Cable Speed (CS)	DCMAIN Voltage (DCV)	
0 (F/HR) 5000	0 (V) 200	
Casing Collar Locator (CCL)	DCMAIN Current (DCC)	
−19 (−−−− 1	0 (MA) 2000	
	Shifted Casing Collar Locator (SCCL)	Tension (TENS) / Raw Casing Collar Locator (RCCL)
	−10 (−−−− 10	0 (LBF) 1000 / −3 (−−−− 17

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
	System and Miscellaneous		
DO	Depth Offset for Playback	5.0	M
PP	Playback Processing	NORMAL	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 09−May−2006 11:07

OP System Version: 14C0−302

MCM

SHM_GUN	14C0−302	CCL−L	14C0−302

Input DLIS Files

DEFAULT	PERFO_034LUP	FN:32	PRODUCER	09−May−2006 10:56	2580.3 M	2530.9 M

Output DLIS Files

DEFAULT	PERFO_035PUP	FN:33	PRODUCER	09−May−2006 11:07

Schlumberger

4.5" MPBT Plug Setting Log

MAXIS Field Log

Output DLIS Files

DEFAULT	CCL_029LUP	FN:27	PRODUCER	09−May−2006 06:38	12192.0 M	11897.4 M

OP System Version: 14C0−302

MCM

MPEX−EA_S	14C0−302	MPSU−CA	14C0−302
CCL−L	14C0−302		

CCL-L 14C0-302

PIP SUMMARY

MPSU Run Time Every 1 MN

MPSU Run Time Every 10 MN

Time Mark Every 60 S

RUN Time (RTIM) (MN)

MPSU Head Voltage (HV)

200 (V) 300

MPSU Run Status (STAT)

0 (----10

Tension (TENS)

2000 (LBF) 0

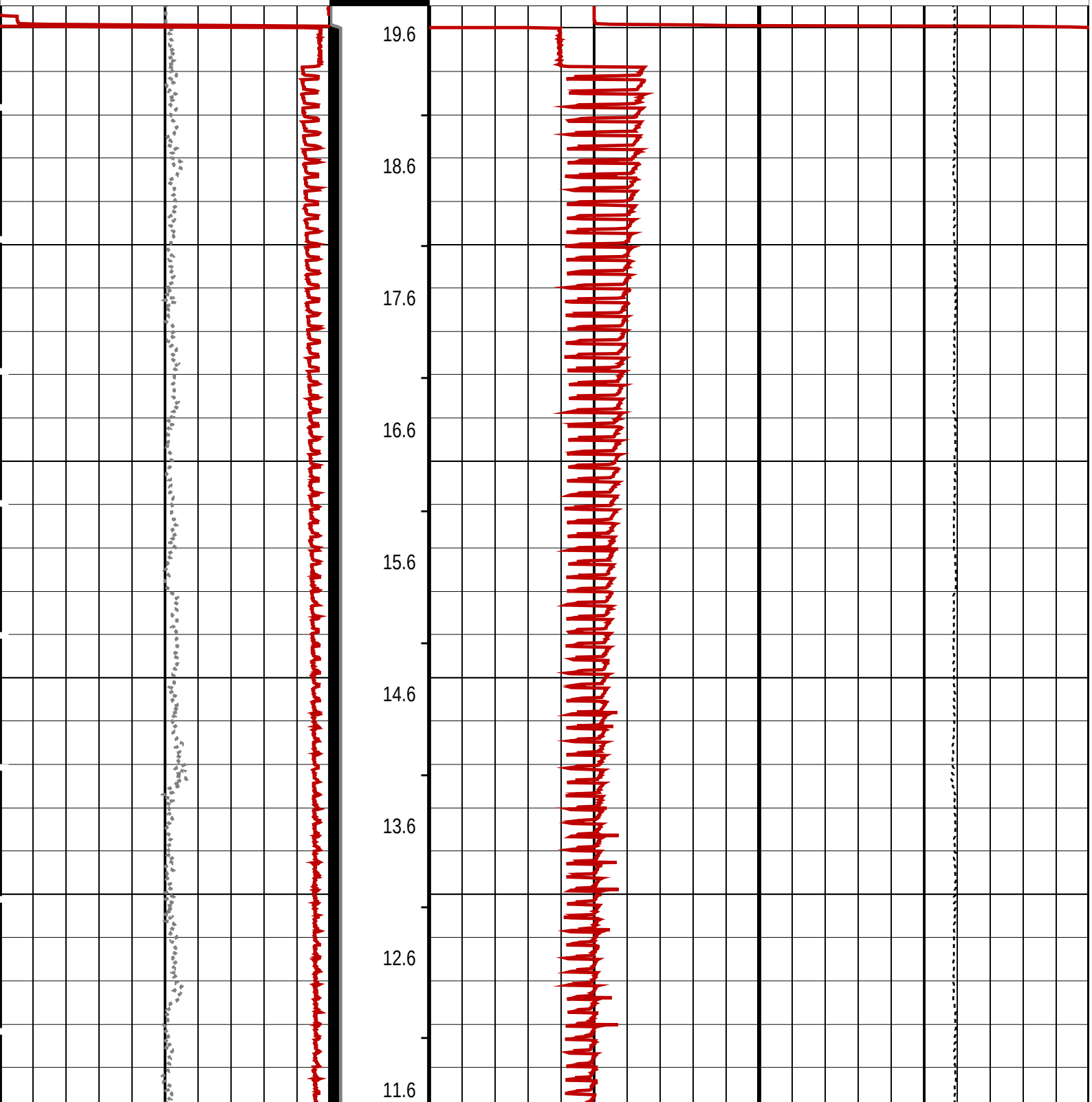
Differential Tension (DTEN)

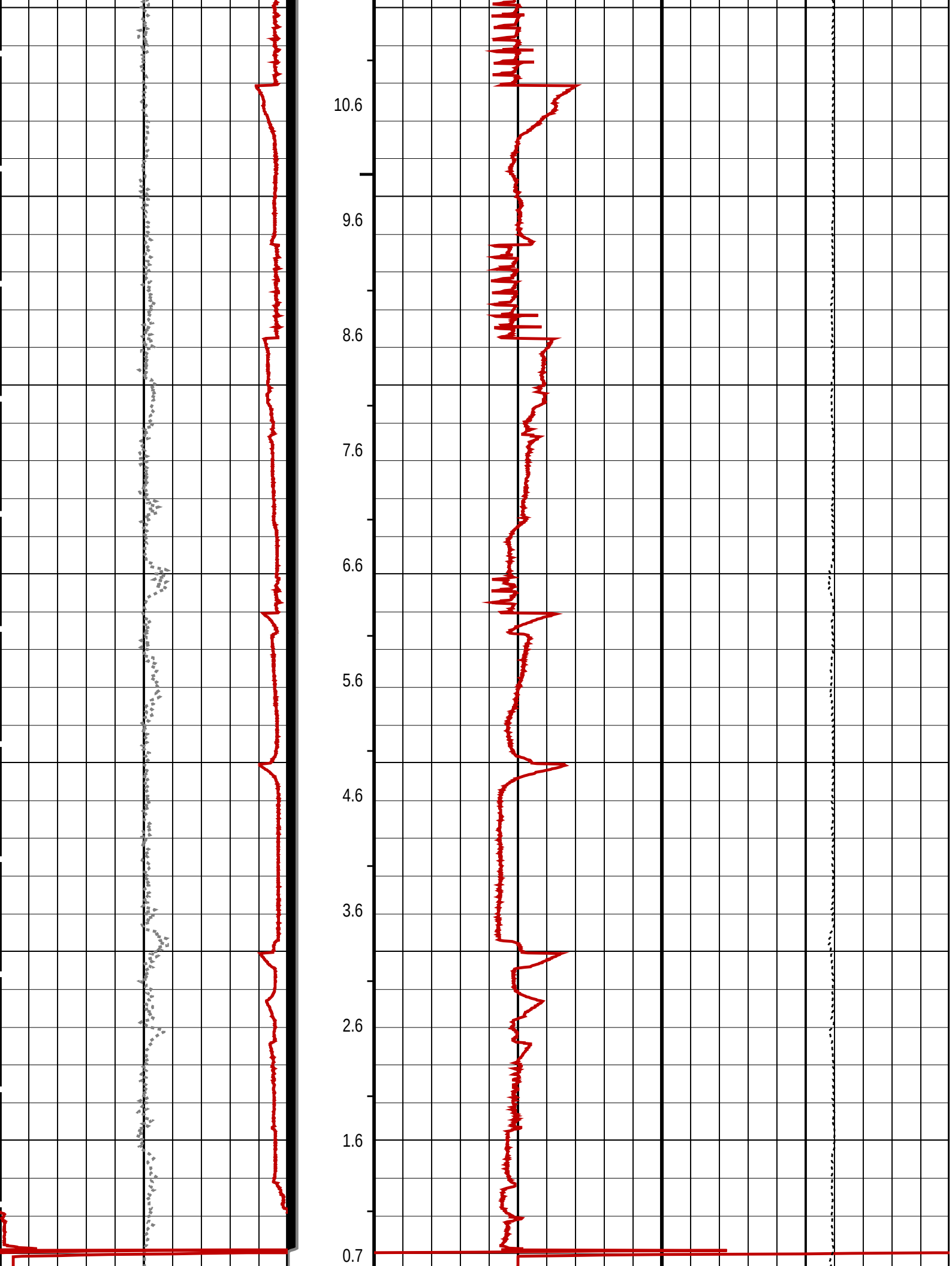
-200 (LBF) 200

ON/Int From D3T to STAT

MPBM Cable Current (CCUR)

300 (MA) 700




10.6
9.6
8.6
7.6
6.6
5.6
4.6
3.6
2.6
1.6
0.7

Differential Tension (DTEN)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR)
−200 (LBF) 200		300 (MA) 700

MPSU Head Voltage (HV)	MPSU Run Status (STAT)	Tension (TENS)
200 (V) 300	0 (−−−−10	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: 09−May−2006 06:38

OP System Version: 14C0−302

MCM

MPEX−EA_S	14C0−302	MPSU−CA	14C0−302
CCL−L	14C0−302		

Output DLIS Files

DEFAULT	CCL_029LUP	FN:27	PRODUCER	09−May−2006 06:38

Schlumberger

4.5" MPBT Plug Correlation Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	FLIP_CCL_045L	PRODUCER	09−May−2006 15:28	2581.0 M	2549.0 M

Output DLIS Files

DEFAULT	PERFO_046PUP	FN:43	PRODUCER	09−May−2006 15:30	2581.0 M	2549.5 M

OP System Version: 14C0−302

MCM

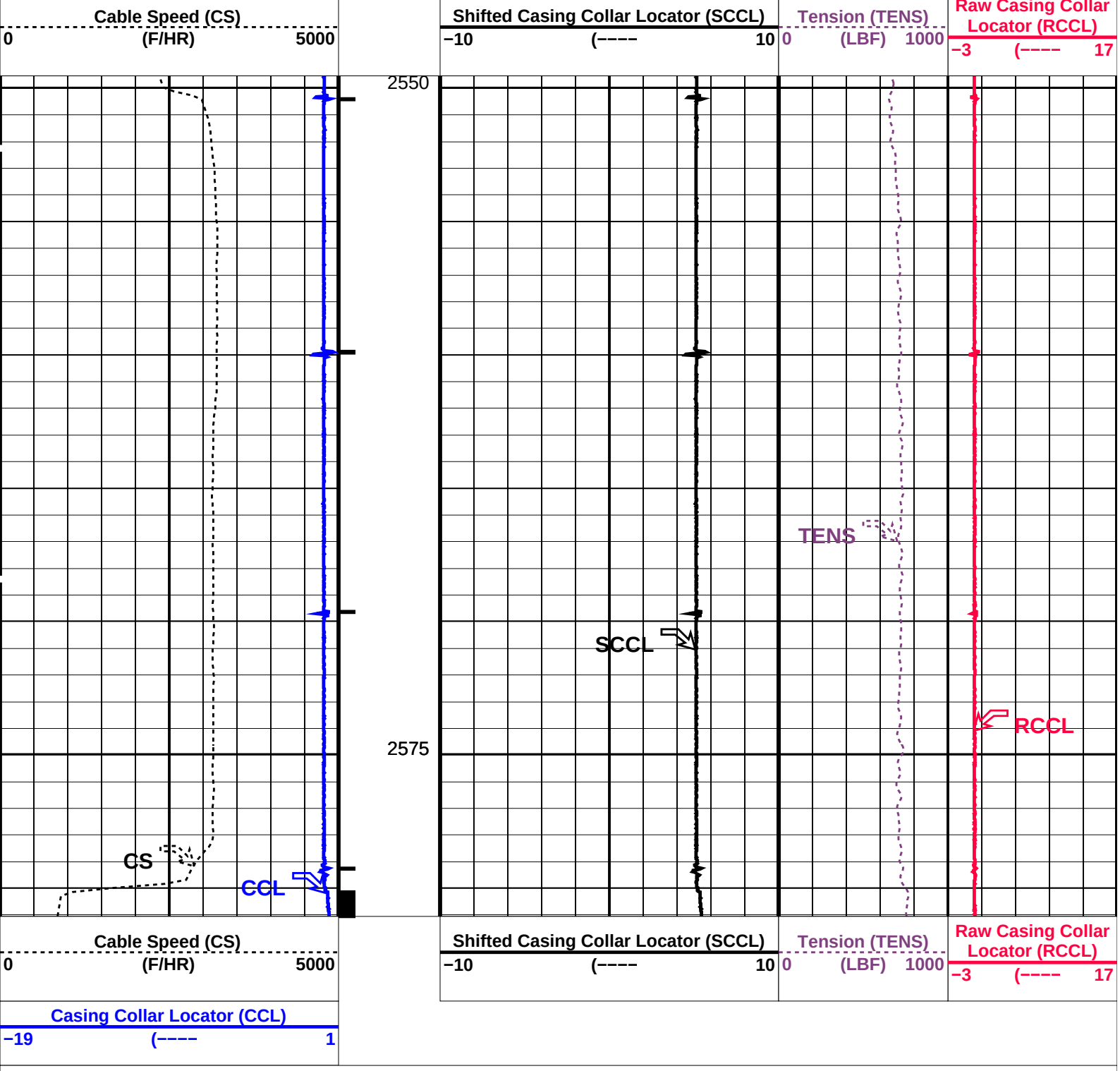
MWP_GUN	14C0−302	MWPT−CA	14C0−302
MWGT−AA	14C0−302		

PIP SUMMARY

Casing Collars

Time Mark Every 60 S

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



PIP SUMMARY

Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MWPT−CA: MEASUREMENT WHILE PERFORATING TOOL		
CCLD	CCL reset delay	12	IN
CCLT	CCL detection level	0.3	V
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	0.0	M
PP	Playback Processing	NORMAL	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 09−May−2006 15:30

MCM

MWP_GUN	14C0−302	MWPT−CA	14C0−302
MWGT−AA	14C0−302		

Input DLIS Files

DEFAULT	FLIP_CCL_045L	PRODUCER	09−May−2006 15:28	2581.0 M	2549.0 M

Output DLIS Files

DEFAULT	PERFO_046PUP	FN:43	PRODUCER	09−May−2006 15:30

Schlumberger

PSP Dummy Plug Correlation Pass

MAXIS Field Log

Company: Esso Australia Ltd. **Well: A−13a**

Input DLIS Files

DEFAULT	PSP_021PUP	FN:19	PRODUCER	09−May−2006 04:33	2601.3 M	2289.0 M

Output DLIS Files

DEFAULT	PSP_042PUP	FN:40	PRODUCER	09−May−2006 15:02	2599.9 M	2573.4 M

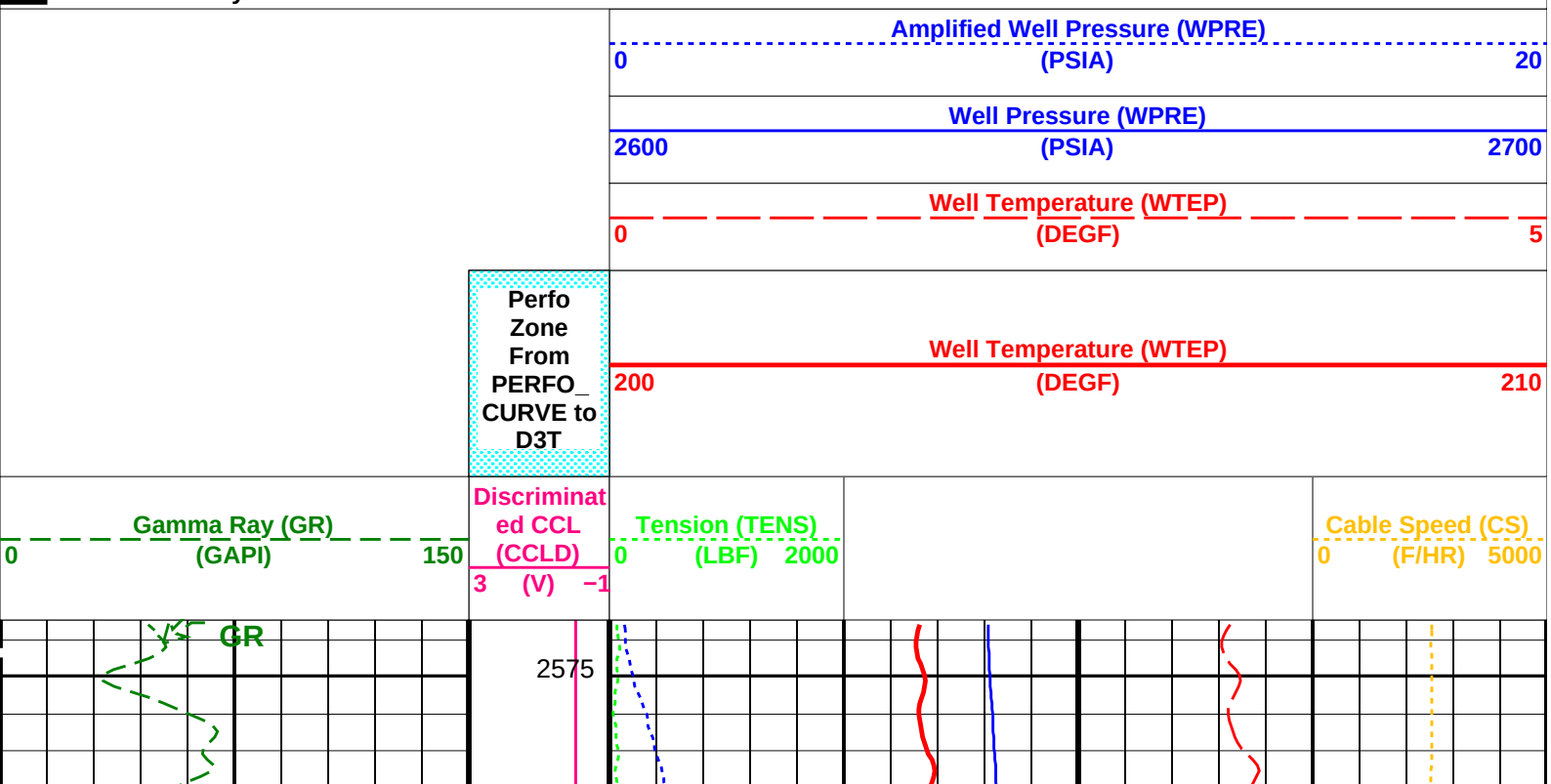
OP System Version: 14C0−302

MCM

PSPT−A/B	14C0−302

PIP SUMMARY

Time Mark Every 60 S



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

Perfo Zone From PERFO_CURVE to D3T

Well Temperature (WTEP)
200 (DEGF) 210

Well Temperature (WTEP)
0 (DEGF) 5

Well Pressure (WPRE)
2600 (PSIA) 2700

Amplified Well Pressure (WPRE)
0 (PSIA) 20

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 09−May−2006 15:02

OP System Version: 14C0−302

MCM

PSPT−A/B 14C0−302

Parameters

DLIS Name	Description	Value	
	System and Miscellaneous		
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT PSP_021PUP FN:19 PRODUCER 09−May−2006 04:33 2601.3 M 2289.0 M

Output DLIS Files

Company: **Esso Australia Ltd.**

Schlumberger

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

4 1/2" MPBT
Plug Setting
Record