

Company: Esso Australia Pty Ltd.

Well: BREAM A4B

Field: BREAM A

Rig : Prod4 / Crane

Country: Australia

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

Prod4 / Crane
BREAM A
Gippsland
BREAM A4B
Esso Australia Pty Ltd.

LOCATION			
Gippsland		Elev.:	K.B. 33.50 m
Basin			G.L. -59.00 m
Bass Strait			D.F. 33.50 m
Permanent Datum:	M.S.L.	Elev.:	0.00 m
Log Measured From:	D.F.	33.50 m	above Perm. Datum
Drilling Measured From:	D.F.		
State : Victoria	Max. Well Deviation 63 deg	Longitude 147 46'15"E	Latitude 038 30'04"S

Logging Date	13-Jun-2010	
Run Number	1 through 6	
Depth Driller	2750 m	
Schlumberger Depth	2750 m	
Bottom Log Interval	2744 m	
Top Log Interval	2724.6 m	
Casing Fluid Type	Production Fluids	
Salinity		
Density		
Fluid Level	2750 m	
BIT/CASING/TUBING STRING		
Bit Size	8.500 in	
From	1437 m	
To	2845 m	
Casing/Tubing Size	4.500 in	
Weight	12.6 lbm/ft	
Grade	L-80	
From	2596 m	
To	2773 m	
Maximum Recorded Temperatures	204 degF	
Logger On Bottom	13-Jun-2010	11:52
Unit Number	889	Prod4 / Ausl
Recorded By	S Gilbert.	
Witnessed By	D Madden	

			Run 1
PVT DATA			
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation			63 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: 5-JUN-2010 12:29:54

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:	208558
Calibration Date:	22-Apr-2010	Calibration Date:	5-Jun-2010	Length:	5800 M
Calibrator Serial Number:	31	Calibrator Serial Number:	1170	Conveyance Method: Wireline Rig Type: Offshore Fixed	
Calibration Cable Type:	2-23ZT	Number of Calibration Points:	10		
Wheel Correction 1:	1	Calibration RMS:	18		
Wheel Correction 2:	0	Calibration Peak Error:	38		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Solar Composite Log
Reference Log Run Number:	
Reference Log Date:	.

Depth Control Remarks

1. IDW used as primary depth control.
2. Z-chart used as secondary backup
3. Rigging up on Main deck using platform crane .
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: None




















REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil composite supplied with logging program.
Maximum well deviation = 62.9 degrees at 1330 MDKB.
Objective: Perforate the well over the interval 2724.6m to 2731.9m MDKB in 2 runs .
using 2 1/8" 45 deg Phased Powerjet Guns . Set a 4.5" Posiset Plug with
Top of seal @ 2744m MDKB and top with approx 1.2m of Cement on top .

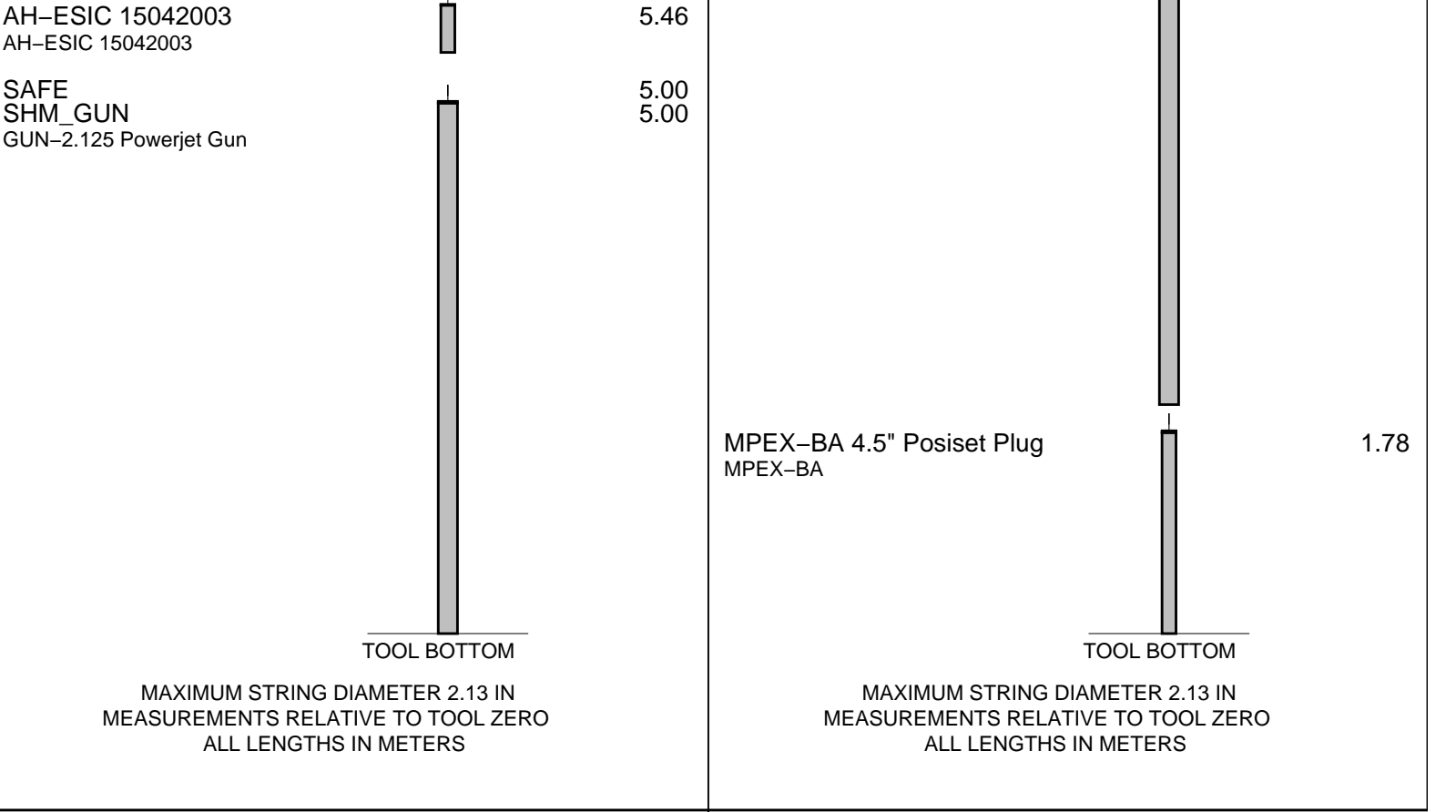
Gun # 1 Top Shot @ 2728.2m MDKB	GUN# 1= 3.7m Long
CCL to Top Shot = 3.95m	
CCL Stop Depth = 2724.25m MDKB	
Gun # 2 Top shot @ 2724.6m	GUN# 2= 3.6m Long
CCL to Top Shot : 4.05m	
CCL Stop Depth : 2720.55m MDKB	
4.5" Plug	
Top of Seal @ 2744 m MDKB	
CCL to top of seal : 6.85m	
CCL Stop Depth : 2737.15m MDKB	
SLB Crew: D Watts , G Blandford	

RUN 1					
SERVICE ORDER #:		4500660690			
PROGRAM VERSION:		17C0-154			
FLUID LEVEL:		2750 m			
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

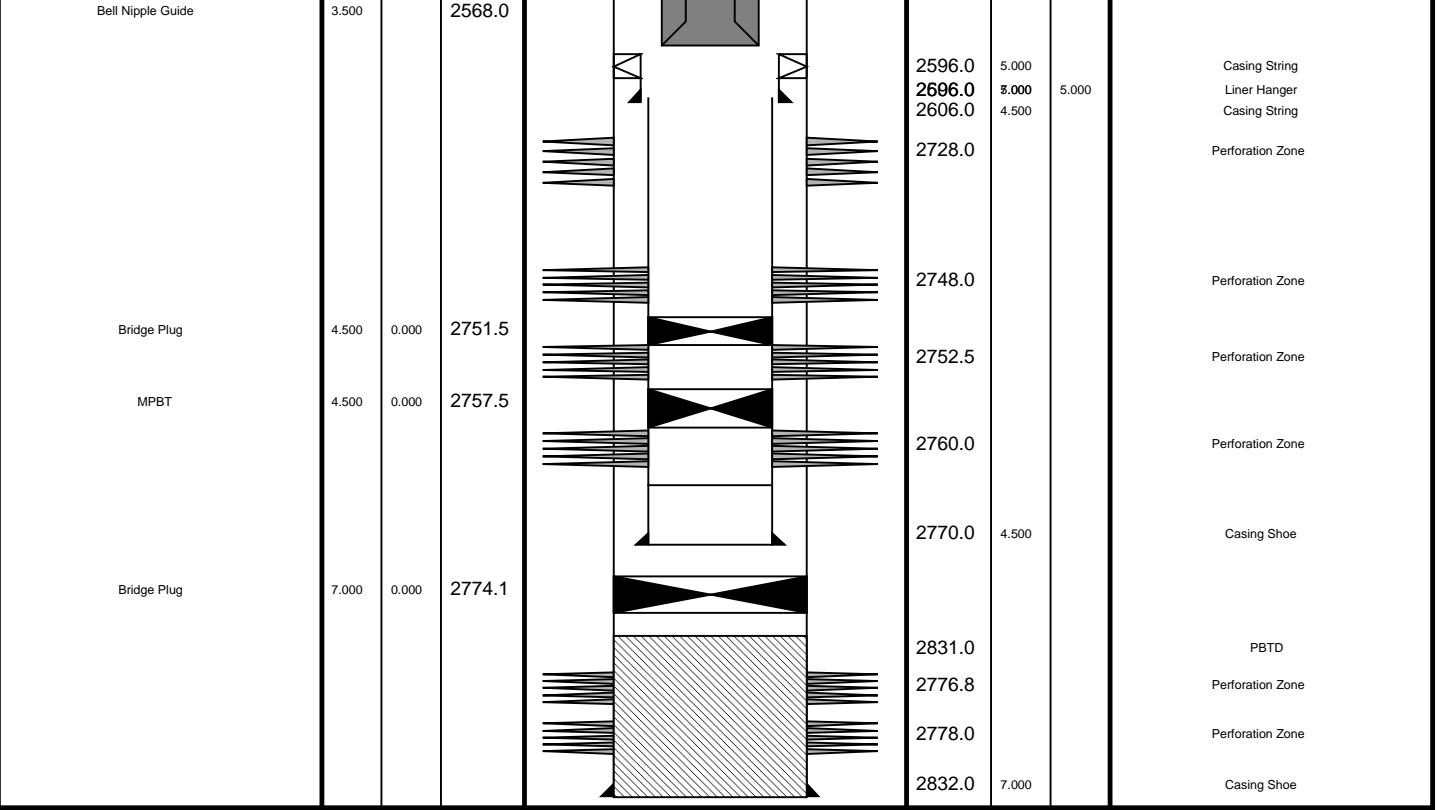
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT			SURFACE EQUIPMENT		
WITM (SHM)			MPBM		

DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
SWBS-B 785		12.24	SWBS-B 785		12.35
SWBS-B 786		11.55	SWBS-B 786		11.71
SWBS-B 787		10.87	SWBS-B 787		11.06
SWBS-B 788		10.18	SWBS-B 788		10.42
SWBS-B 789		9.50	SWBS-B 789		9.77
MH-SWHS-A 759		8.81	SWBH 759		9.13
UPCT-A		8.48	CCL-PCCL		8.65
UPCC-A 445			CCL-PCCL		
UPCH-A 571					
	Gamma Ray	0.79		Cable Cur Head Volt Tension	TOOL ZERO
	Casing Co Tension	TOOL ZERO			
AH-Flex Joint 41		7.11	MPSU-CA 1011		8.19
AH-Flex Joint 41			MPSU-CA		
AH-122 7002		6.55			
AH-SAH-G 1047		6.45			
AH-SAH-G 1047					
MPD-MB 268		5.99			
MPD-MB 268					



Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing	3.500		12.0		16.0	10.375		Casing String
Tubing Hanger		3.500	12.0		12.3	10.375	7.625	Liner Hanger
					140.0	7.625		Casing Shoe
					152.0	7.000		Casing String
SSSV	3.500		455.0					
Gas Lift Mandrel	3.500		572.0					
Gas Lift Mandrel	3.500		1174.0					
Gas Lift Mandrel	3.500		1455.0					
Gas Lift Mandrel	3.500		1725.0		1396.0	10.375		Casing Shoe
Gas Lift Mandrel	3.500		2181.0					
Packer	7.000	3.500	2561.0					
Nipple	3.500		2197.0					



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary						
		Time	Elapsed Time	Depth (M)		File
Log Pass (up)	13-Jun-2010 12:20	000:04	2741.4 - 2713.9	PERFO_017LUP		
Gun # 1 Correlation Pass	13-Jun-2010 12:24	000:11	2742.9 - 2698.5	PERFO_018LUP		
Log Pass (up)	13-Jun-2010 14:38	000:06	2742.9 - 2698.5	PERFO_027LUP		
Gun # 2 Correlation Pass	13-Jun-2010 14:46	000:11	2741.1 - 2690.9	PERFO_028LUP		
Log Pass (up)	13-Jun-2010 16:29	000:11	2747.6 - 2517.0	PSP_032LUP		
Dummy Plug Pass	14-Jun-2010 8:35	000:05	2712.7 - 2667.9	MPBT_046LUP		
Log Pass (up)	14-Jun-2010 8:48	000:18		MPBT_047LUP		
Plug Correlation Pass						
Simulated Log						
4.5" Plug Setting						

Log Pass (up)	14-Jun-2010	9:06	000:04	2737.1	-	2685.6	MPBT_048LUP
Log Away From Plug Set							
Log Pass (up)	14-Jun-2010	10:47	000:06	2735.6	-	2674.3	PERFO_052LUP
Water Dump Pass							
Log Pass (up)	14-Jun-2010	12:12	000:06	2735.0	-	2685.1	PERFO_056LUP
Cement Dump Pass							



Cemet Dump Pass

MAXIS Field Log

Input DLIS Files

DEFAULT PERFO_056LUP FN:60 PRODUCER 14-Jun-2010 12:12 2735.0 M 2685.1 M

Output DLIS Files

DEFAULT PERFO_057PUP FN:61 PRODUCER 14-Jun-2010 12:18 2733.1 M 2683.3 M

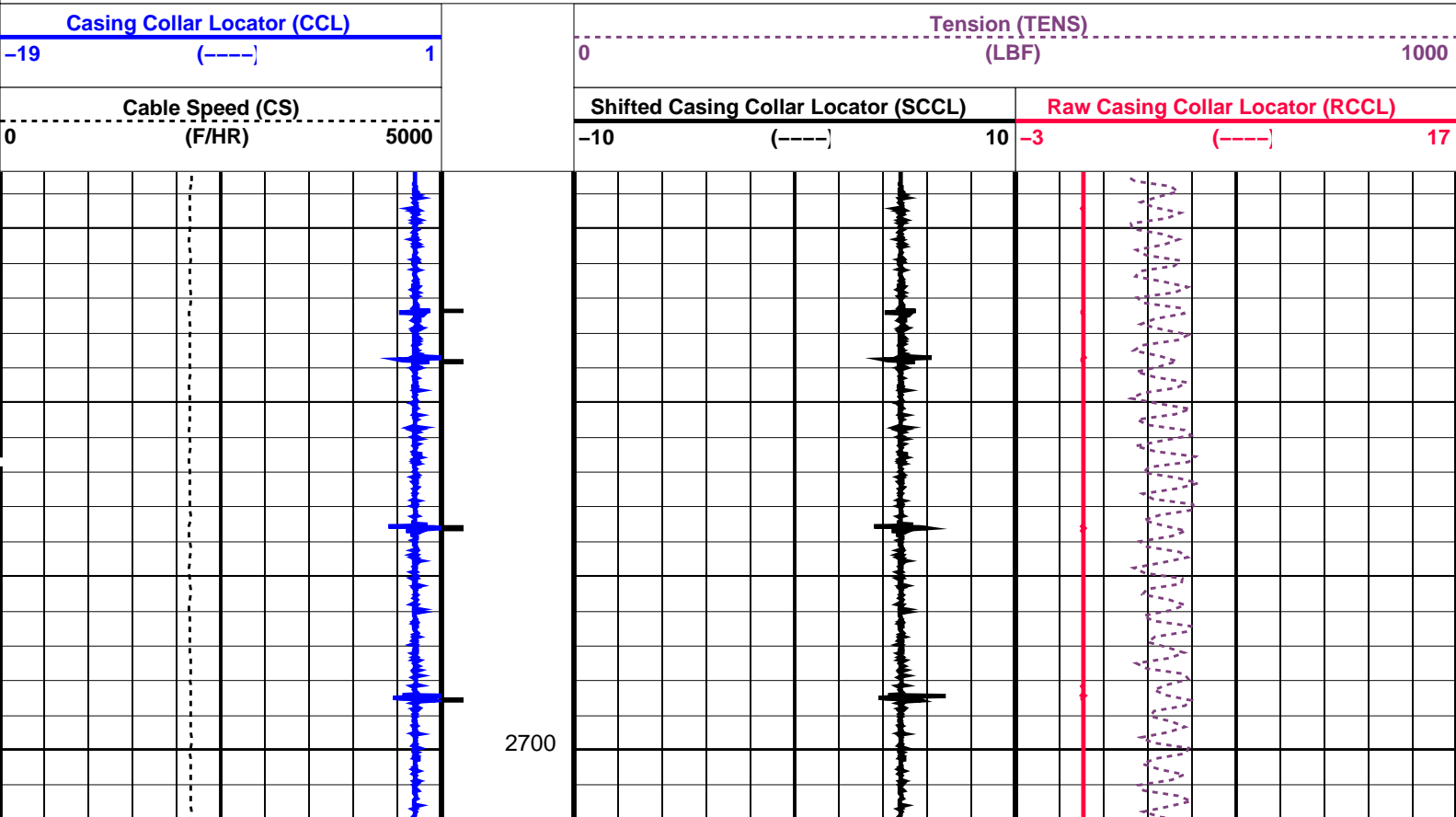
OP System Version: 17C0-154

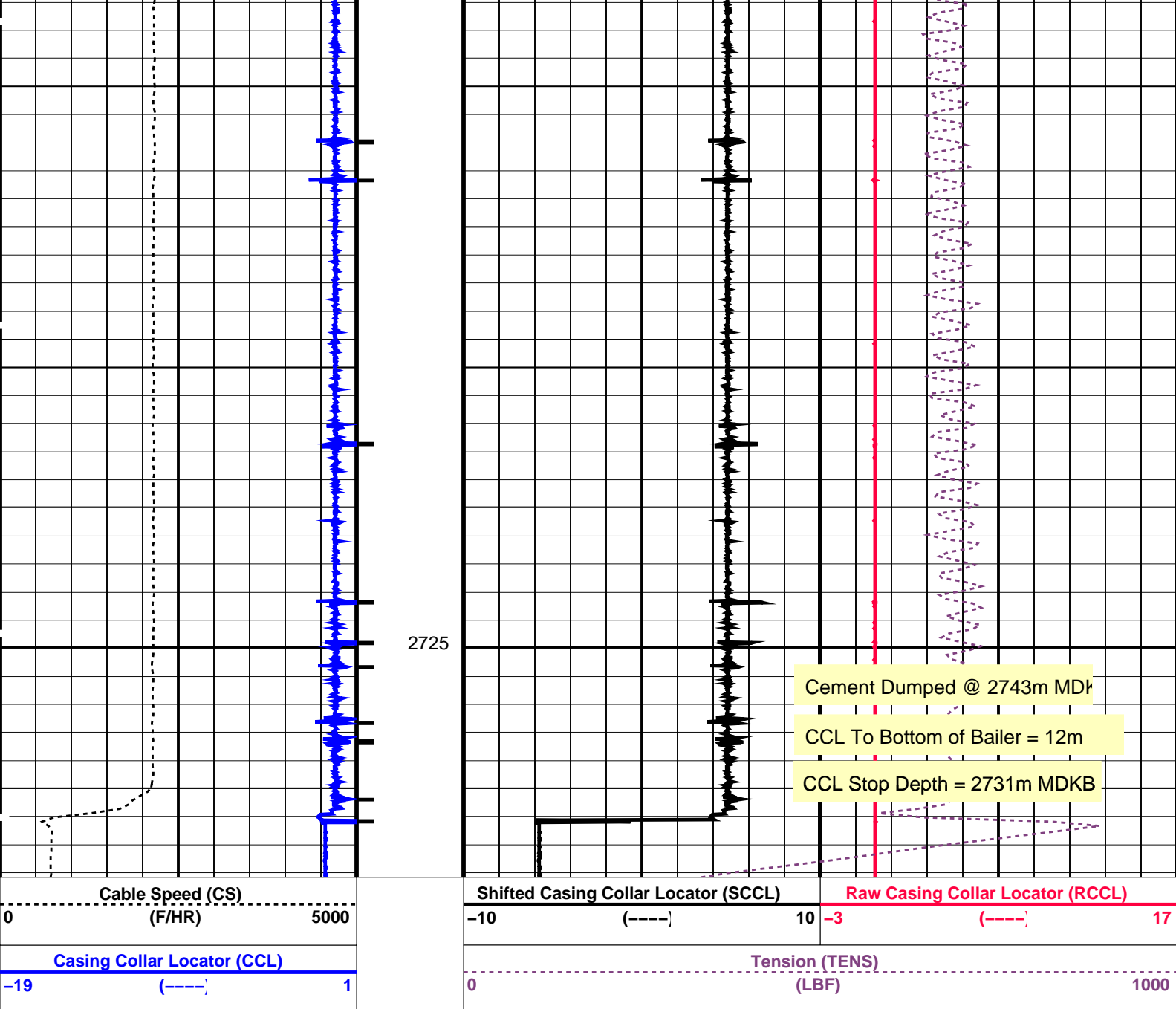
SHM_GUN 17C0-154 CCL-L 17C0-154

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	
CCLT	CCL reset delay	12 IN
	CCL Detection Level	0.3 V
DO	System and Miscellaneous	
PP	Depth Offset for Playback	-1.8 M
	Playback Processing	NORMAL

Format: PERFO_1 Vertical Scale: 1:200 Graphics File Created: 14-Jun-2010 12:18

OP System Version: 17C0-154

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

Input DLIS Files

DEFAULT PERFO_056LUP FN:60 PRODUCER 14-Jun-2010 12:12 2735.0 M 2685.1 M

Output DLIS Files

DEFAULT PERFO_057PUP FN:61 PRODUCER 14-Jun-2010 12:18

Schlumberger

Water Dump Pass

MAXIS Field Log

Input DLIS Files

DEFAULT PERFO_052LUP FN:56 PRODUCER 14-Jun-2010 10:47 2735.6 M 2674.3 M

Output DLIS Files

DEFAULT PERFO_053PUP FN:57 PRODUCER 14-Jun-2010 10:54 2733.6 M 2672.3 M

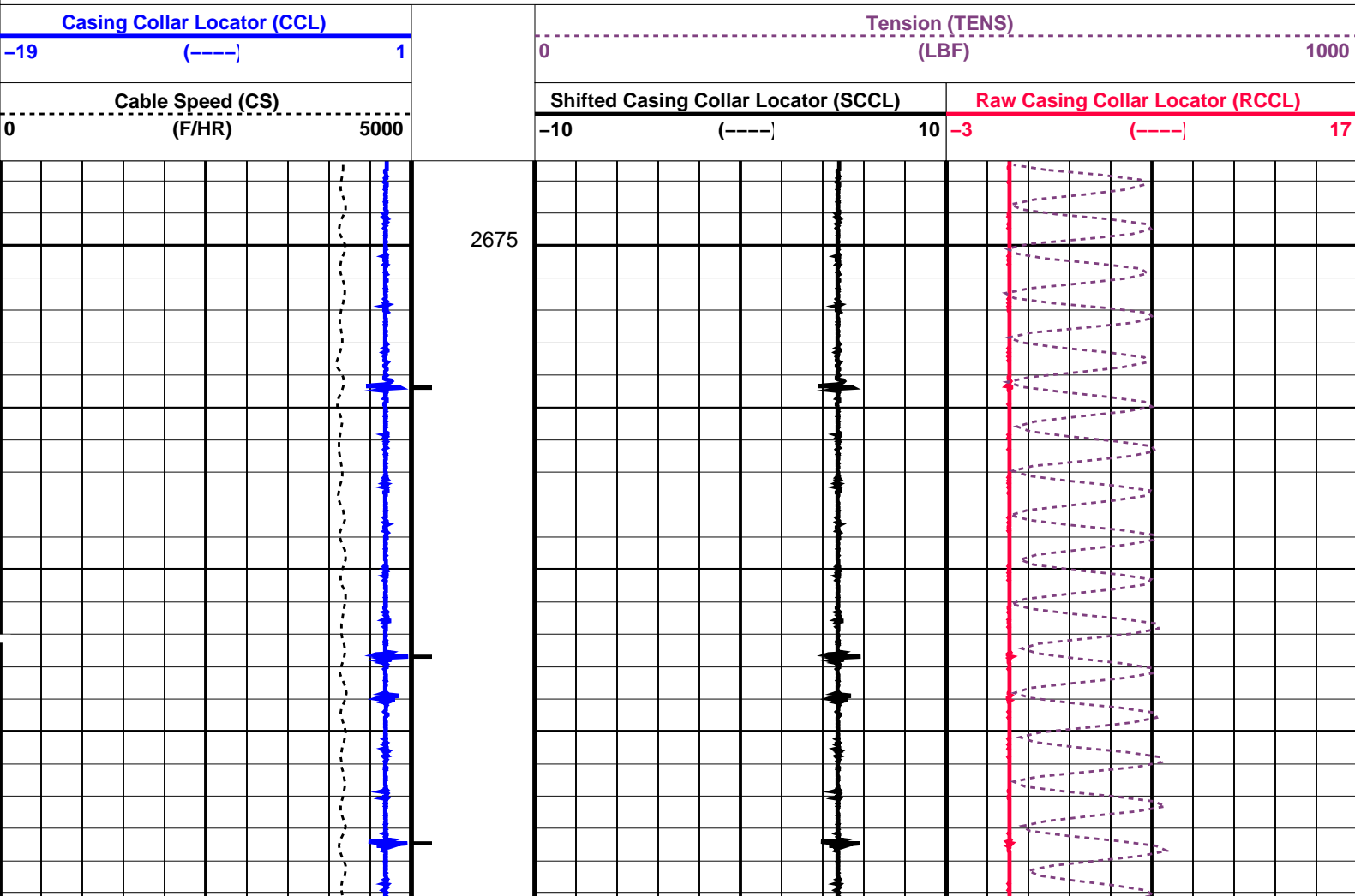
OP System Version: 17C0-154

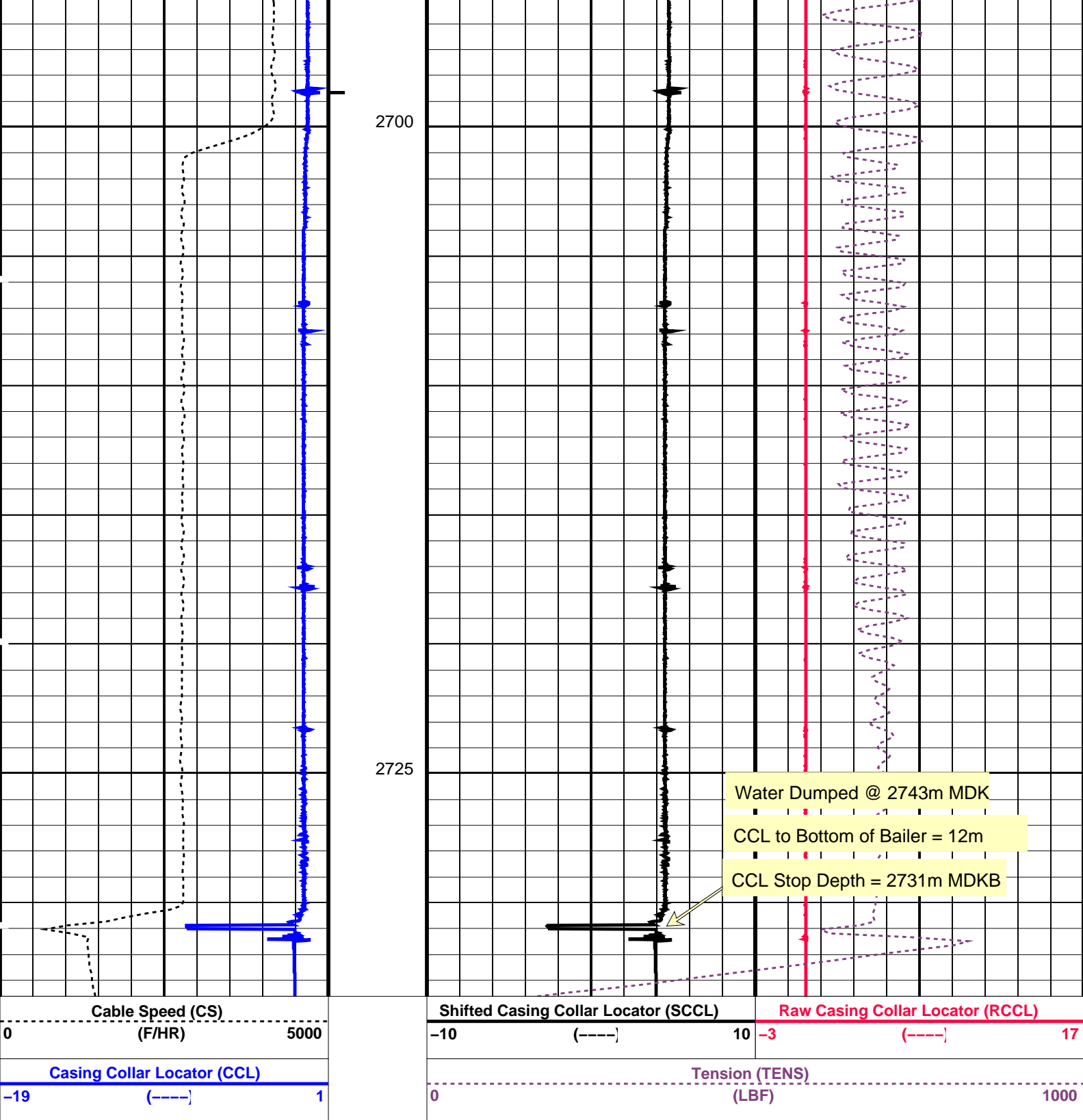
SHM_GUN 17C0-154 CCL-L 17C0-154

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

Time Mark Every 60 S

← Casing Collars

Parameters		
DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	
CCLT	CCL reset delay	12 IN
	CCL Detection Level	0.3 V
DO	System and Miscellaneous	
PP	Depth Offset for Playback	-2.0 M
	Playback Processing	NORMAL

SHM_GUN	17C0-154	CCL-L	17C0-154
Input DLIS Files			
DEFAULT	PERFO_052LUP	FN:56 PRODUCER	14-Jun-2010 10:47 2735.6 M 2674.3 M
Output DLIS Files			
DEFAULT	PERFO_053PUP	FN:57 PRODUCER	14-Jun-2010 10:54

Schlumberger

Log Away from Plug Setting

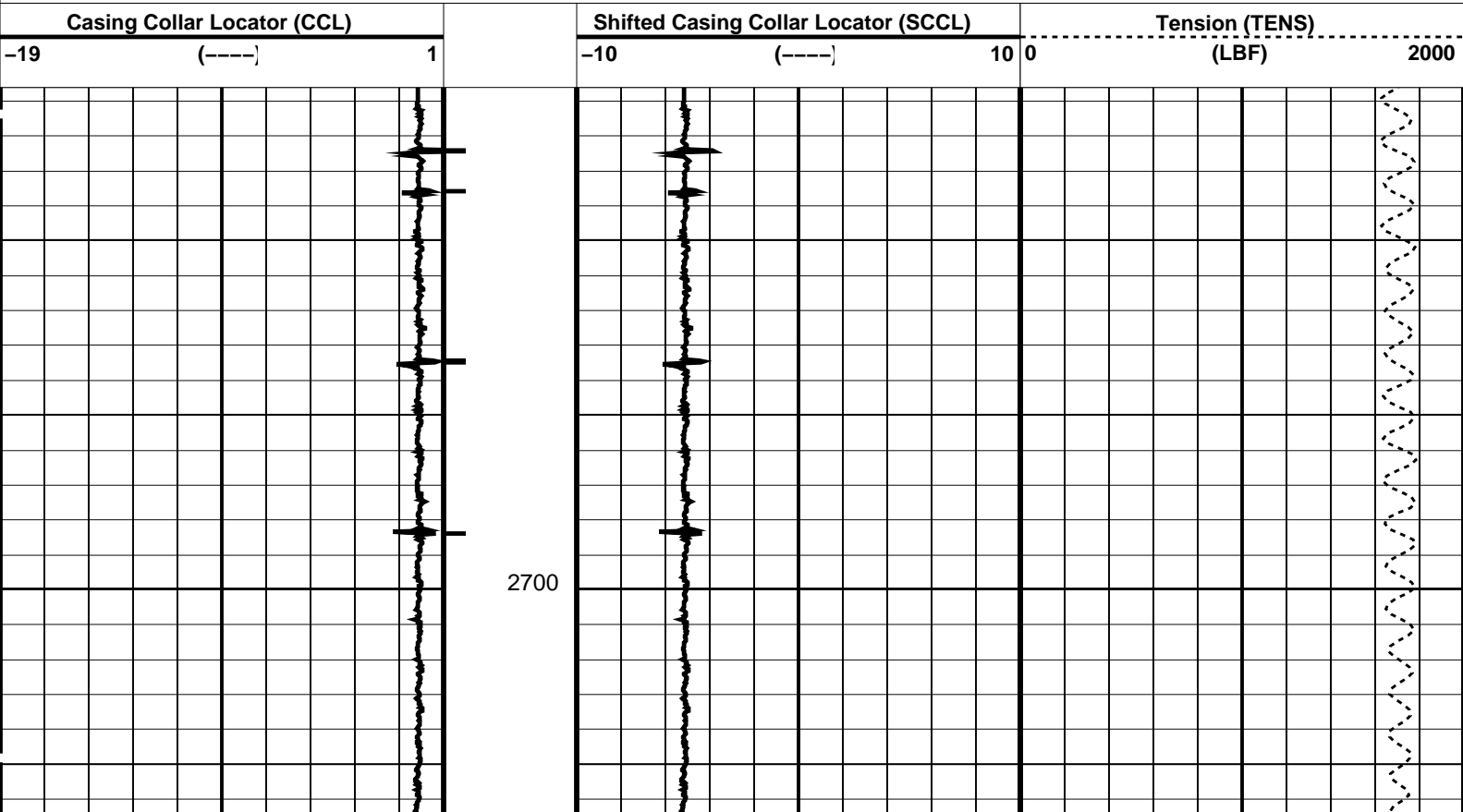
MAXIS Field Log

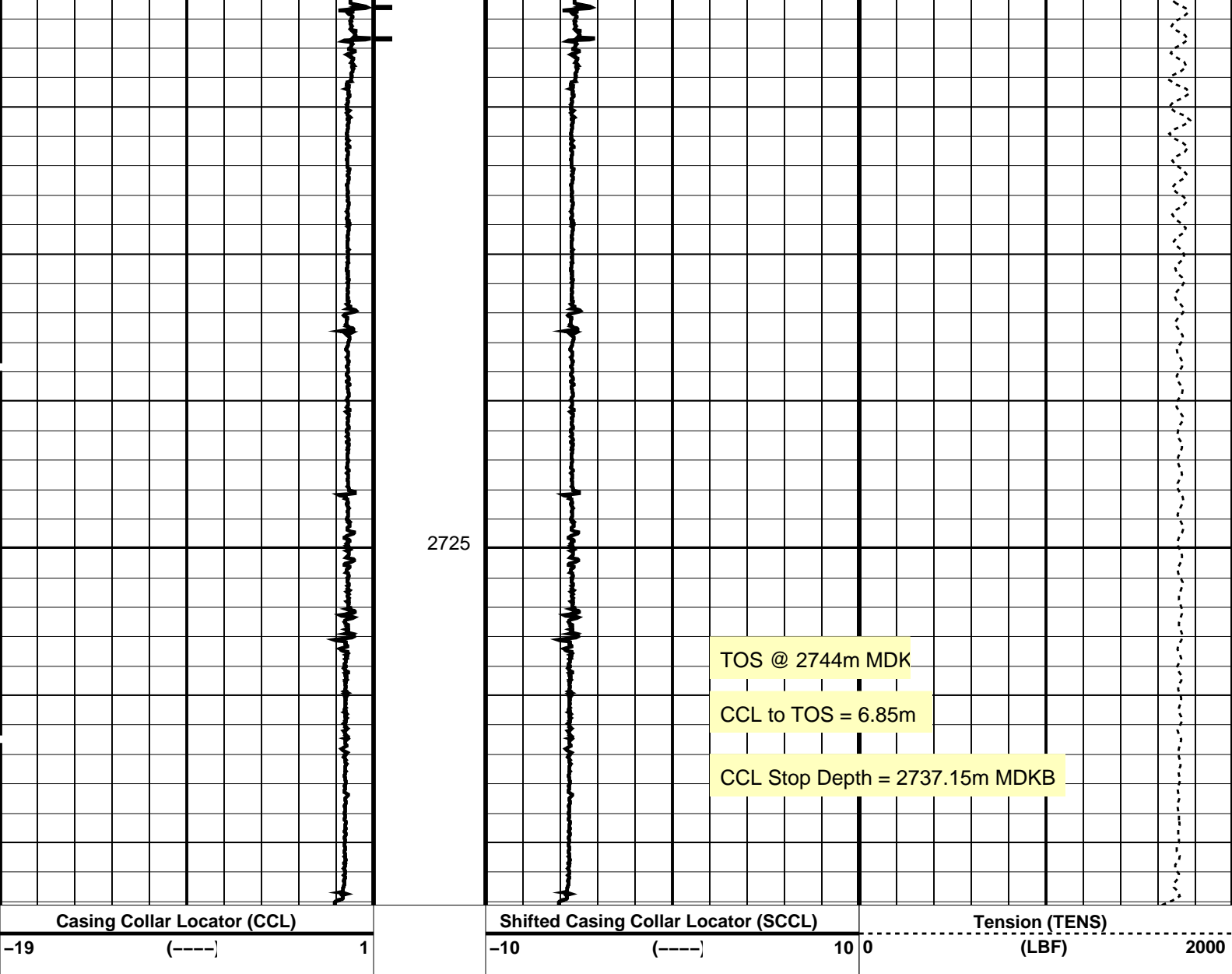
Output DLIS Files						
DEFAULT	MPBT_048LUP	FN:52	PRODUCER	14-Jun-2010 09:06	2737.1 M	2685.6 M
OP System Version: 17C0-154						
MPEX-BA	17C0-154		MPSU-CA	17C0-154		
CCL-PCCL	17C0-154					

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

← Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-PCCL: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 14-Jun-2010 09:06

OP System Version: 17C0-154

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

Output DLIS Files

DEFAULT	MPBT_048LUP	FN:52	PRODUCER	14-Jun-2010 09:06
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MAXIS Field Log

Output DLIS Files

DEFAULT MPBT_047LUP FN:51 PRODUCER 14-Jun-2010 08:48

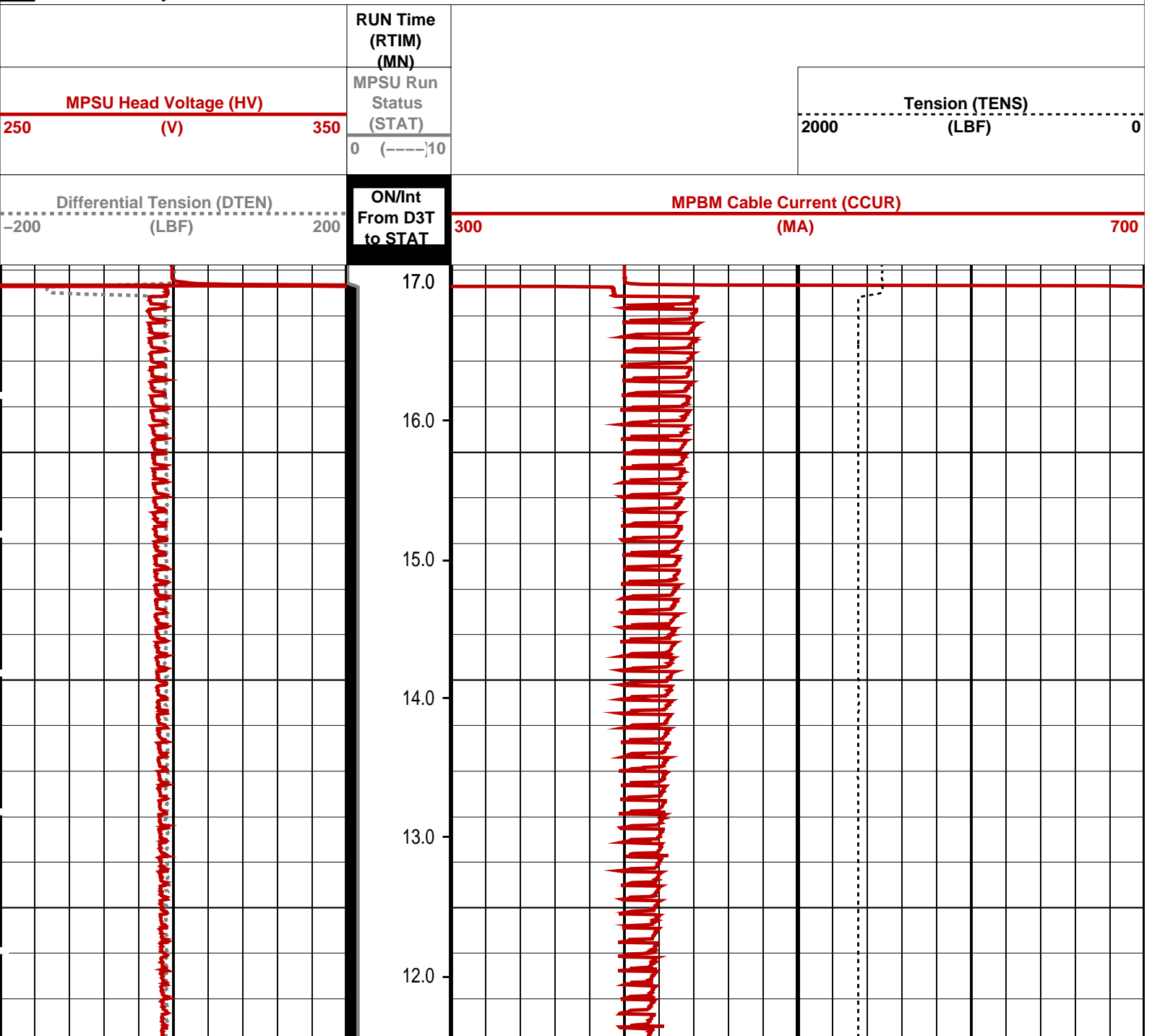
OP System Version: 17C0-154

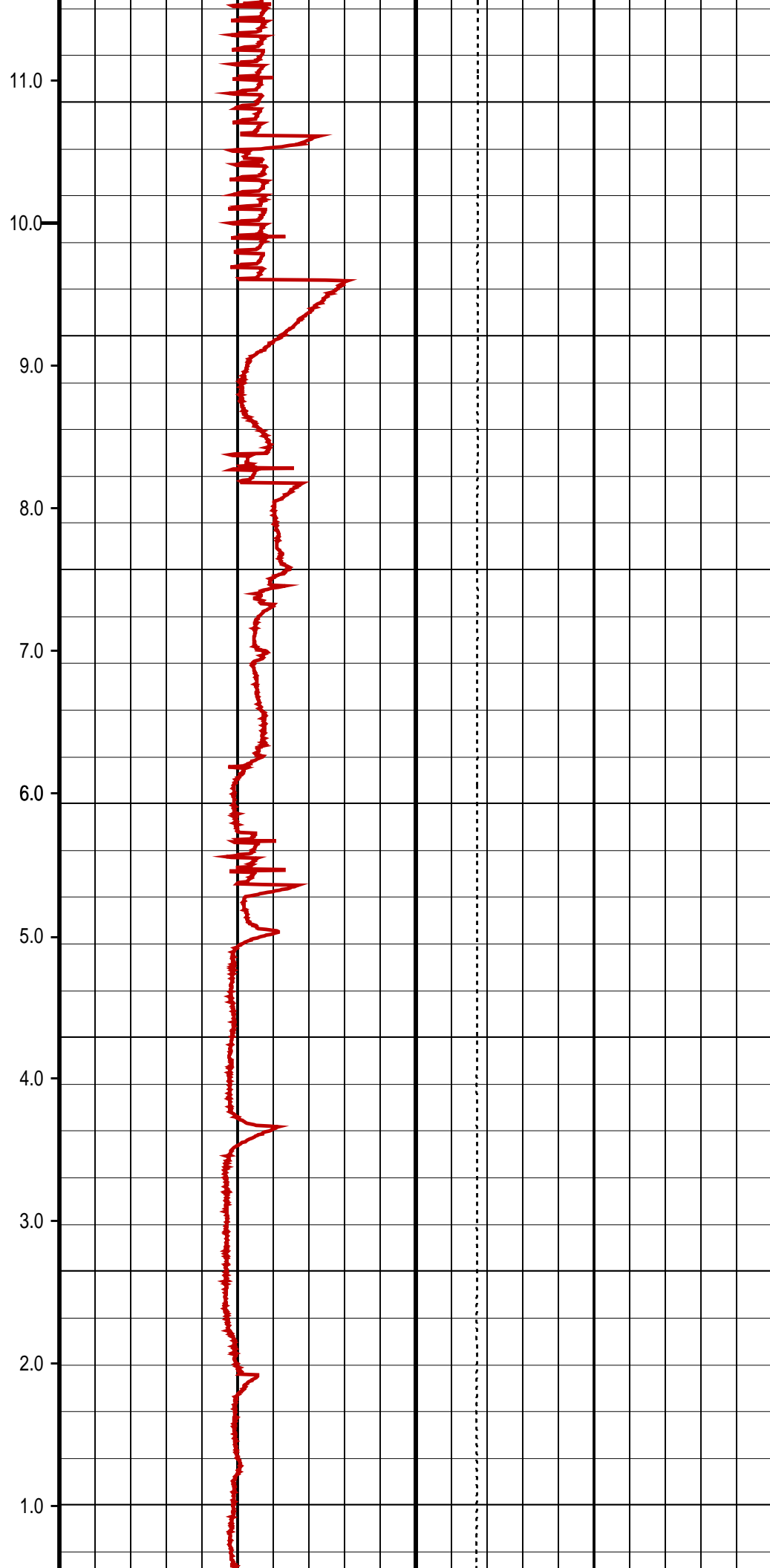
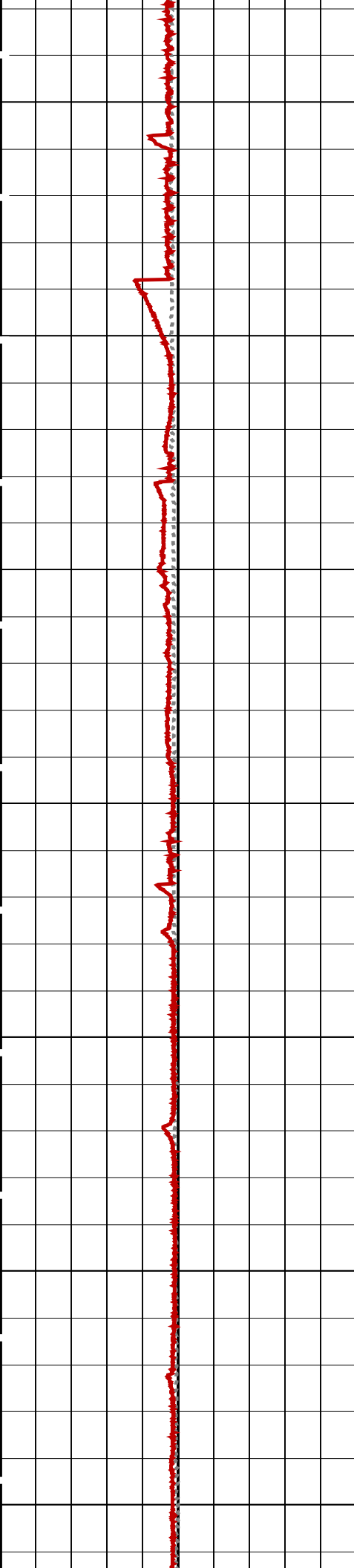
MPEX-BA 17C0-154 MPSU-CA 17C0-154
CCL-PCCL 17C0-154

PIP SUMMARY

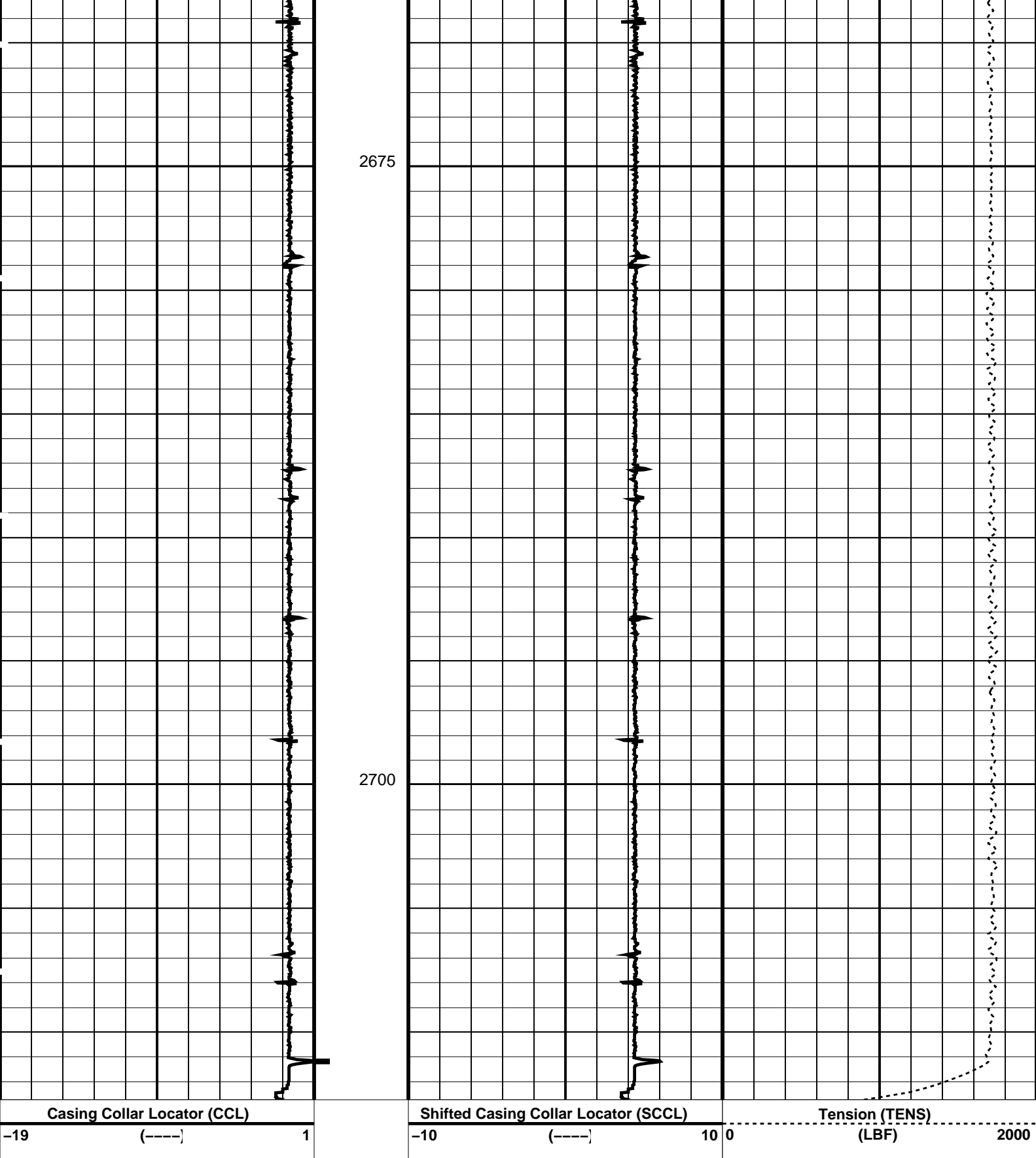
- └ MPSU Run Time Every 1 MN
- └ MPSU Run Time Every 10 MN

Time Mark Every 60 S





Casing Collar Locator (CCL)		Shifted Casing Collar Locator (SCCL)	Tension (TENS)
-19 (----) 1		-10 (----) 10 0	(LBF) 2000



PIP SUMMARY

Time Mark Every 60 S

Casing Collars

Parameters		
DLIS Name	Description	Value
CCL-PCCL: Casing Collar Locator		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V

OP System Version: 17C0-154					
MPEX-BA	17C0-154	MPSU-CA		17C0-154	
CCL-PCCL	17C0-154				
Output DLIS Files					
DEFAULT	MPBT_046LUP	FN:50	PRODUCER	14-Jun-2010 08:35	

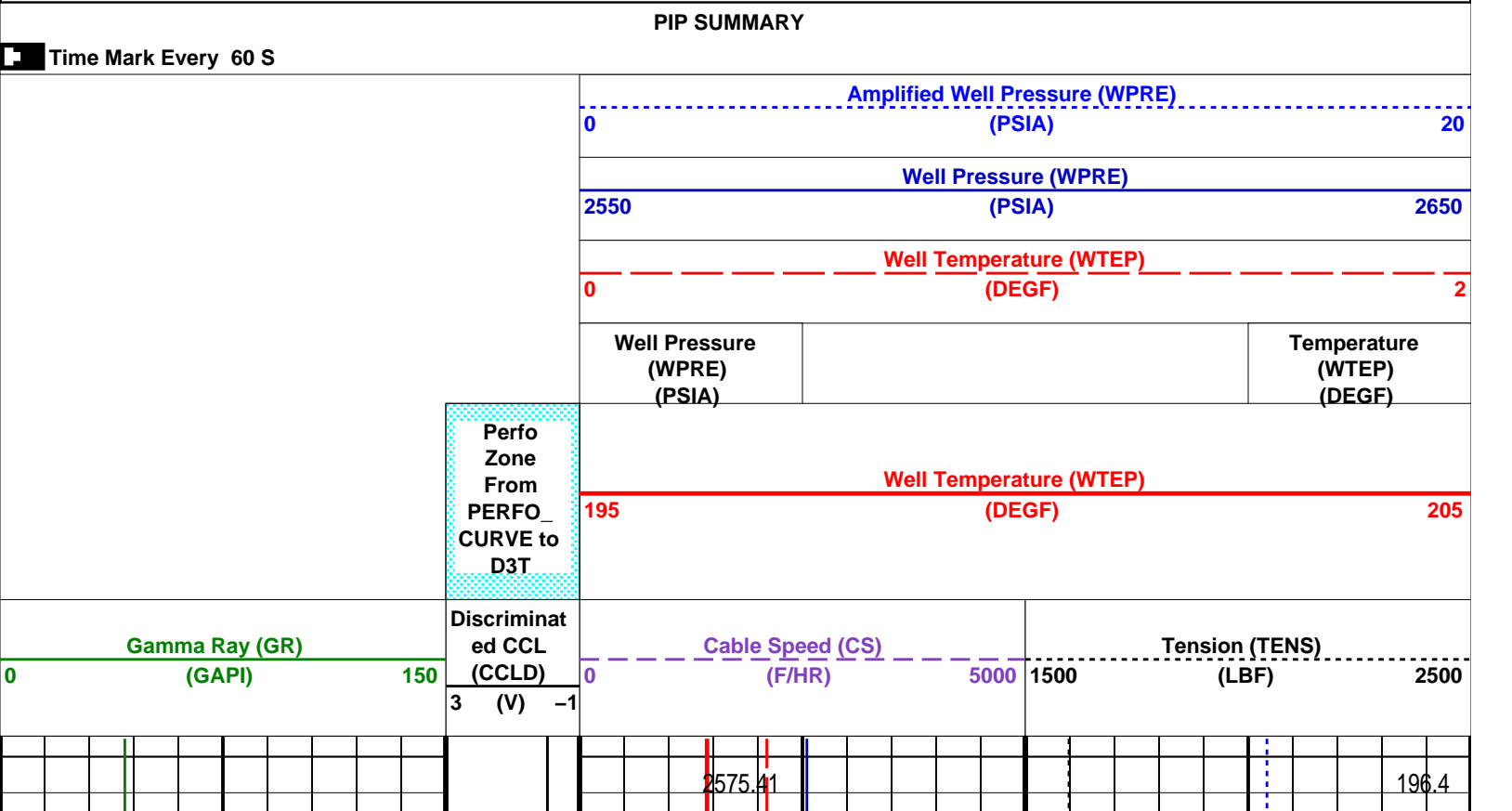
Schlumberger

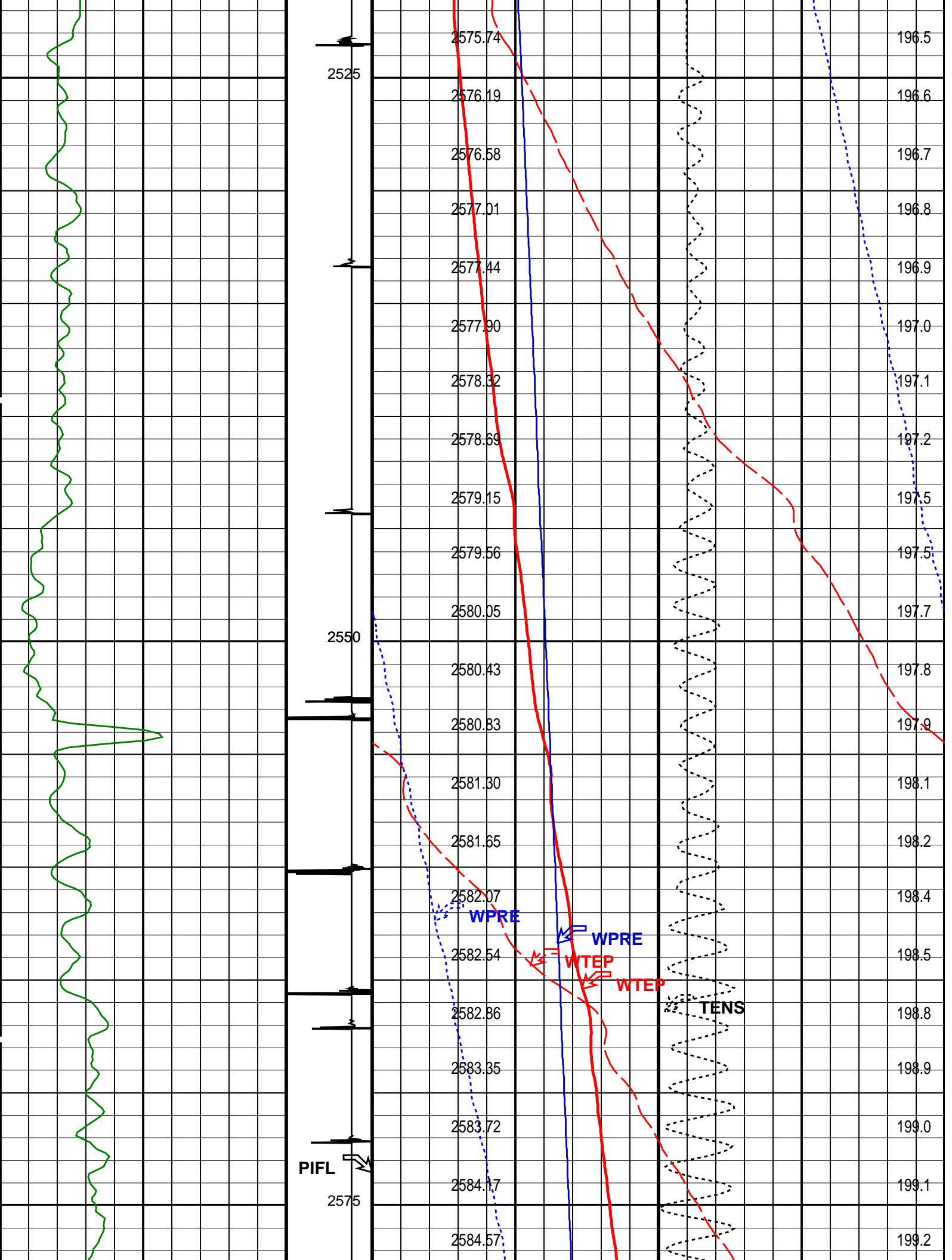
Dummy Plug Pass

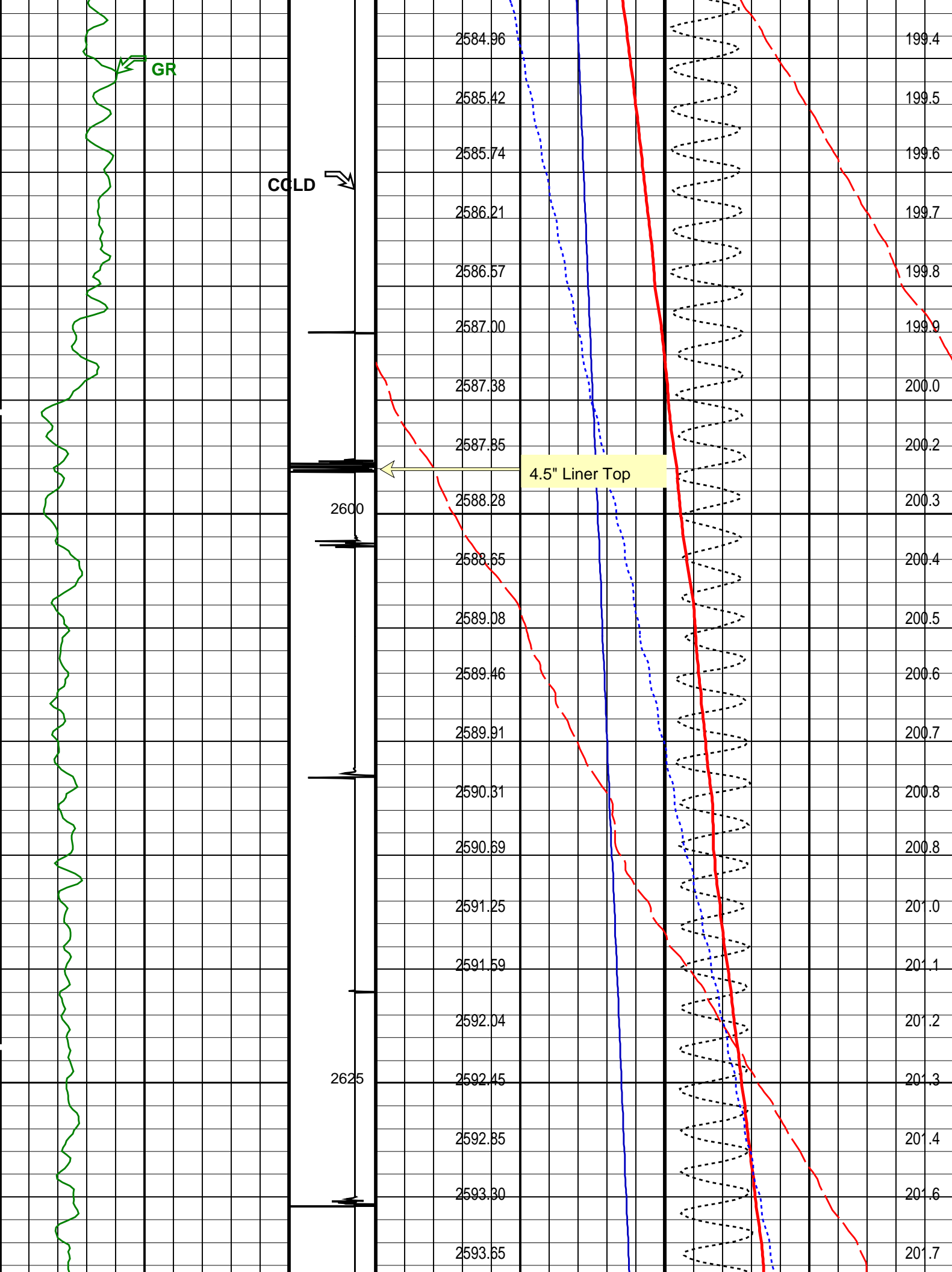
MAXIS Field Log

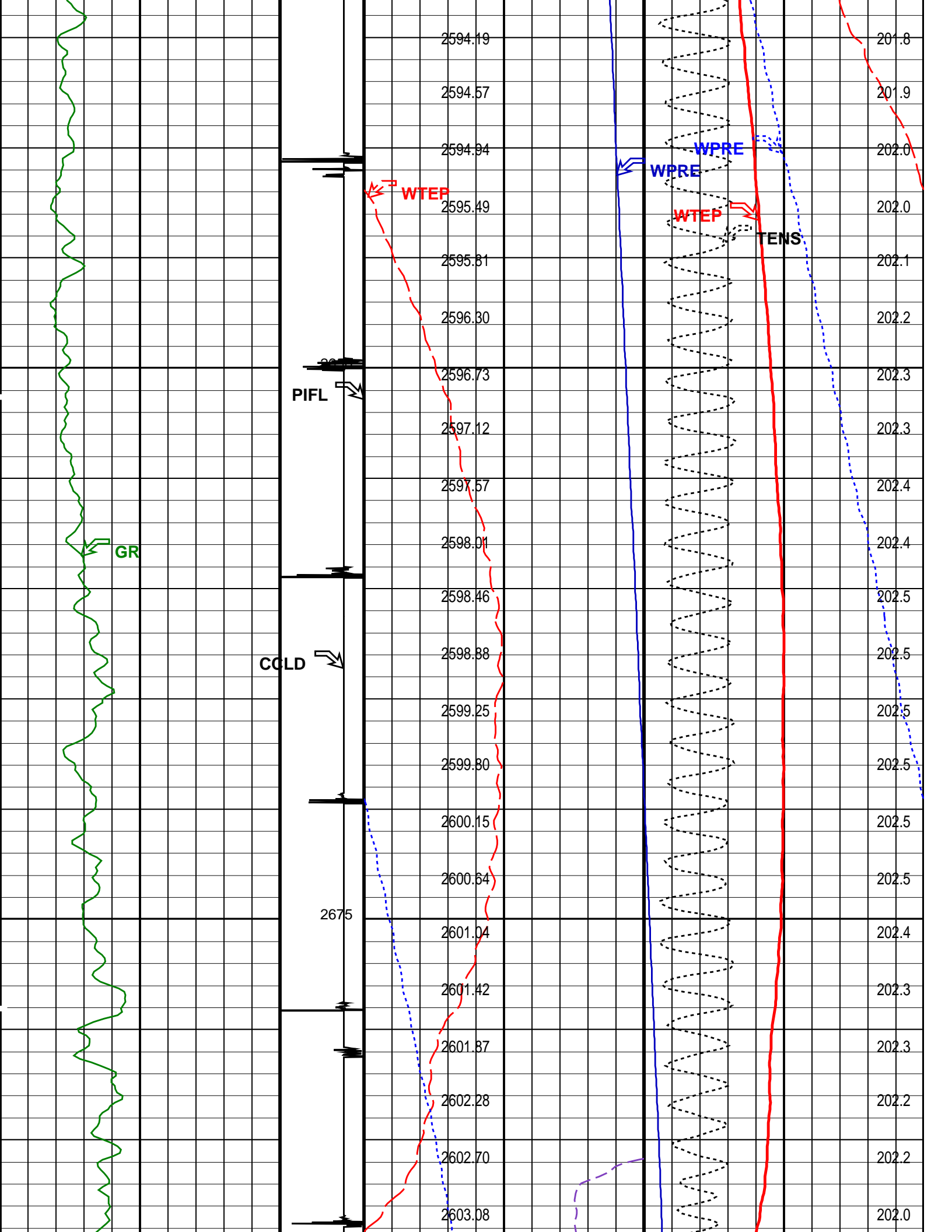
Company: Esso Australia Pty Ltd.					Well: BREAM A4B	
Input DLIS Files						
DEFAULT	PSP_032LUP	FN:32	PRODUCER	13-Jun-2010 16:29	2747.6 M	2517.0 M
Output DLIS Files						
DEFAULT	PSP_034PUP	FN:36	PRODUCER	13-Jun-2010 16:41	2752.5 M	2519.3 M
CUSTOMER	PSP_034PUC	FN:37	CUSTOMER	13-Jun-2010 16:41	2752.5 M	2519.3 M

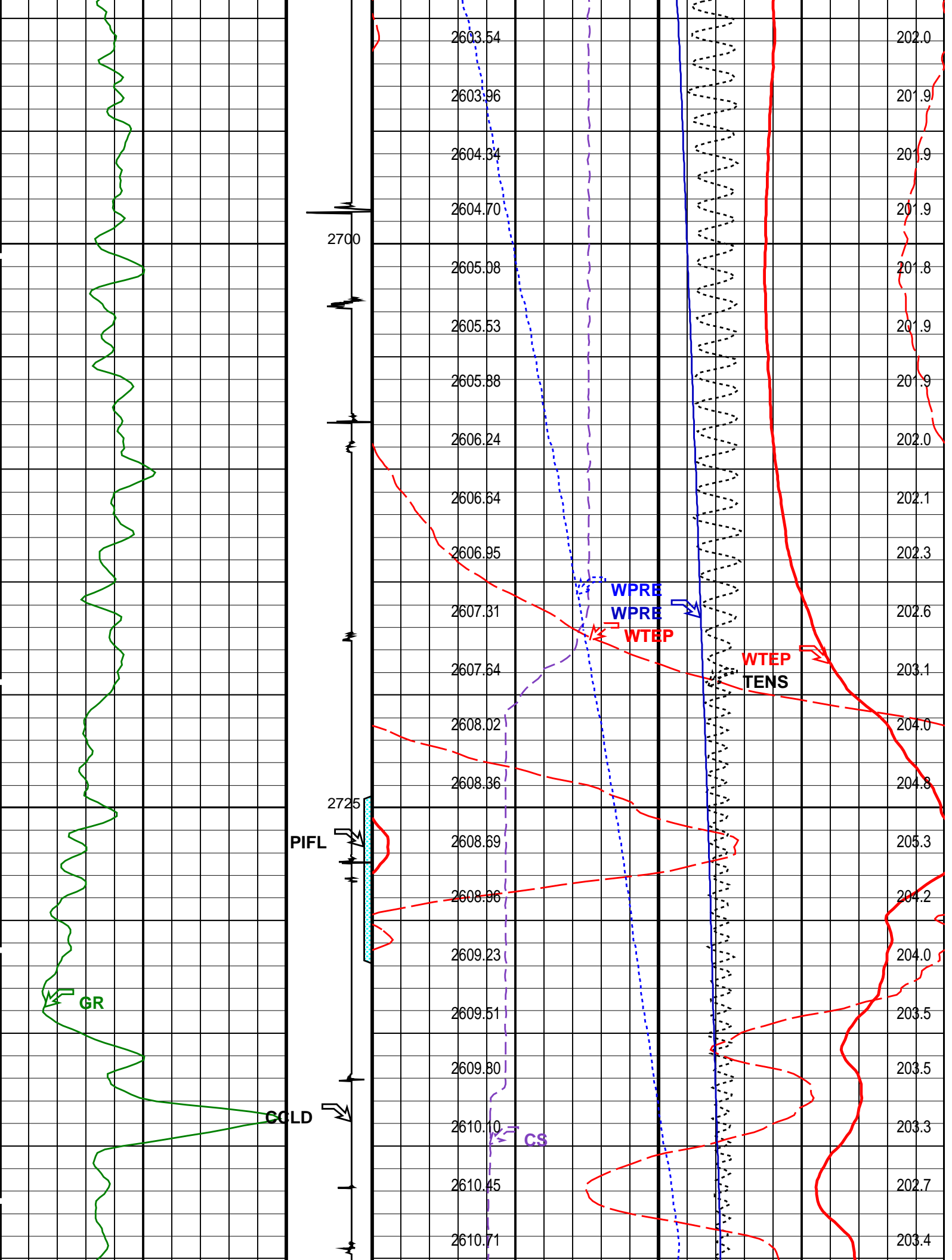
OP System Version: 17C0-154	
PSPT	SRPC-3971-Q1_2010_OP17

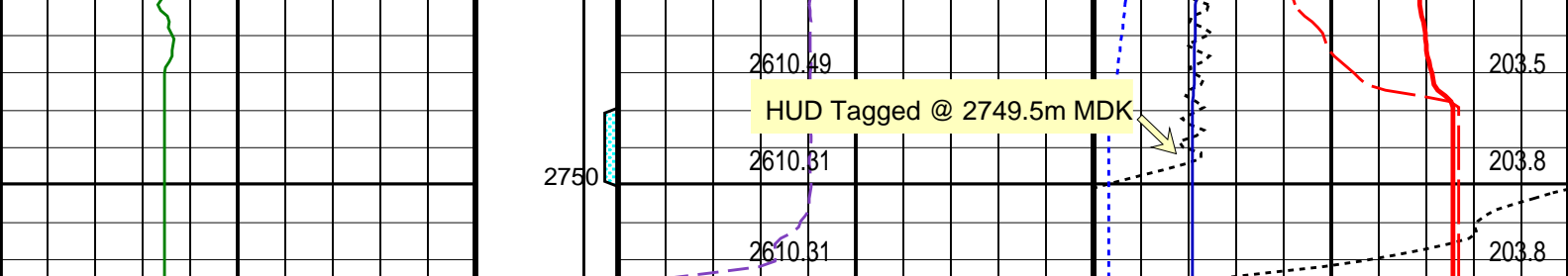












Gamma Ray (GR) (GAPI)	Discriminat ed CCL (CCLD)	Cable Speed (CS) (F/HR)	Tension (TENS) (LBF)
0 150	3 (V) -1	0 5000 1500	2500

Perfo Zone From PERFO_ CURVE to D3T	Well Temperature (WTEP) (DEGF)
	195 205

Well Pressure (WPRE) (PSIA)	Temperature (WTEP) (DEGF)
0	2
Well Pressure (WPRE) (PSIA)	Well Temperature (WTEP) (DEGF)
2550	2650
Amplified Well Pressure (WPRE) (PSIA)	
0	20

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 13-Jun-2010 16:41

OP System Version: 17C0-154

PSPT SRPC-3971-Q1_2010_OP17

Parameters		
DLIS Name	Description	Value
DO PP	System and Miscellaneous Depth Offset for Playback Playback Processing	4.9 M NORMAL

Input DLIS Files						
DEFAULT	PSP_032LUP	FN:32	PRODUCER	13-Jun-2010 16:29	2747.6 M	2517.0 M
Output DLIS Files						
DEFAULT	PSP_034PUP	FN:36	PRODUCER	13-Jun-2010 16:41		
CUSTOMER	PSP_034PUC	FN:37	CUSTOMER	13-Jun-2010 16:41		

Schlumberger

Gun # 2 Shooting Pass

Output DLIS Files

DEFAULT

PERFO_028LUP

FN:27

PRODUCER

13-Jun-2010 14:46

2741.1 M

2690.9 M

OP System Version: 17C0-154

SHM_GUN

17C0-154

SAFE

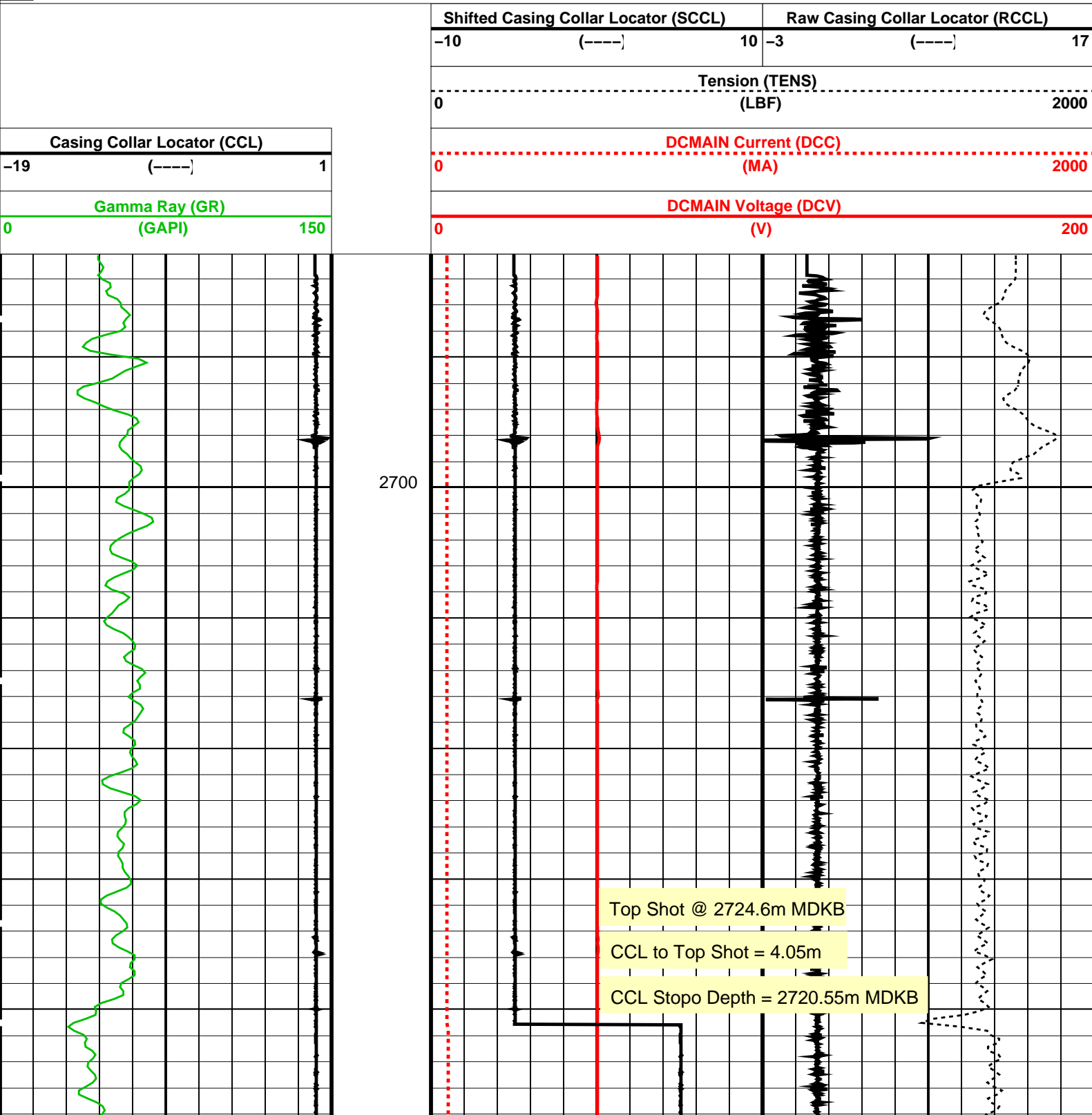
17C0-154

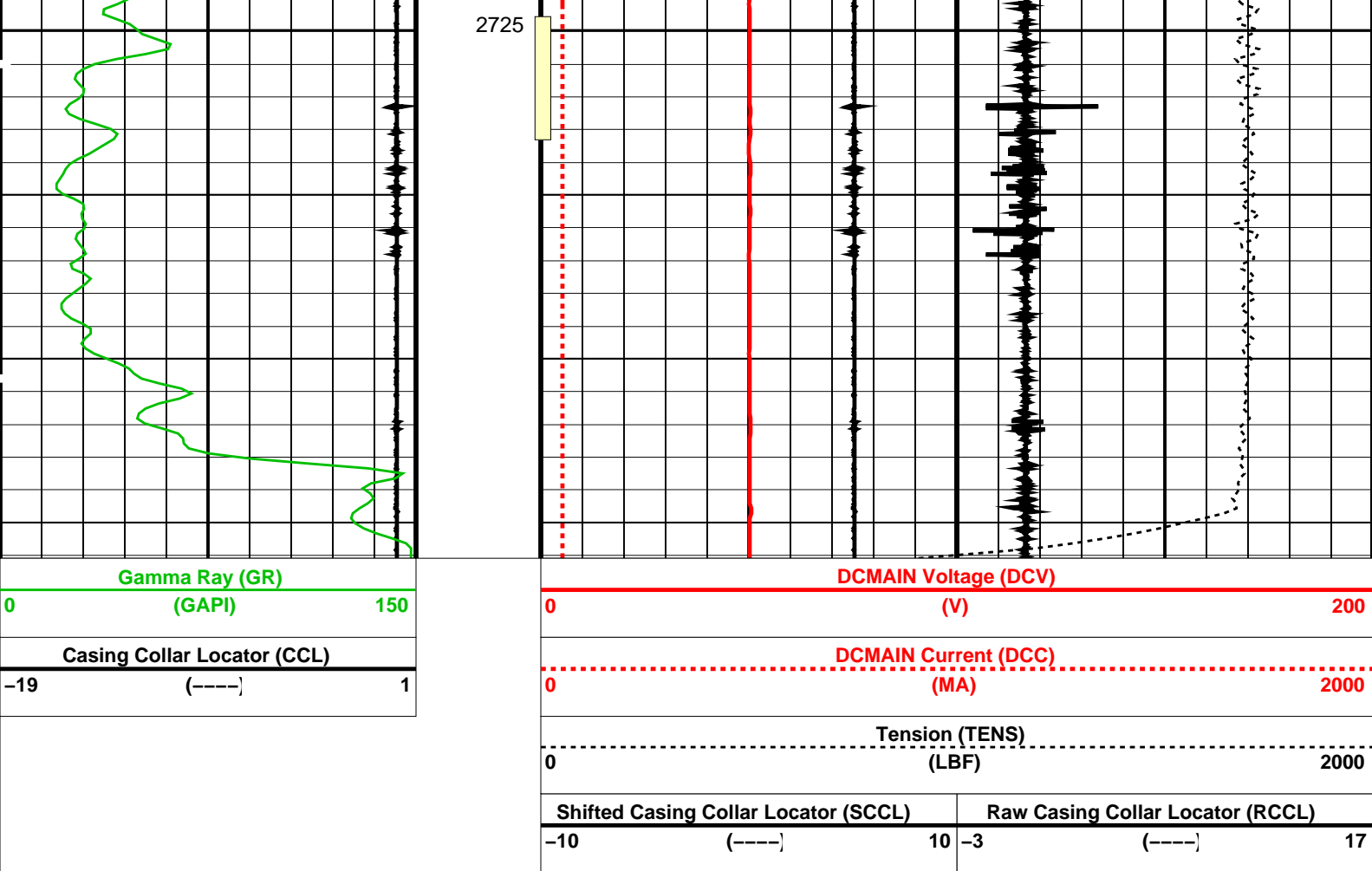
UPCT-A

17C0-154

PIP SUMMARY

Time Mark Every 60 S





Time Mark Every 60 S

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 13-Jun-2010 14:46

OP System Version: 17C0-154

SHM_GUN 17C0-154
UPCT-A 17C0-154

SAFE 17C0-154

Output DLIS Files

DEFAULT PERFO_028LUP FN:27 PRODUCER 13-Jun-2010 14:46

Schlumberger

Gun # 2 Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: BREAM A4B

Output DLIS Files

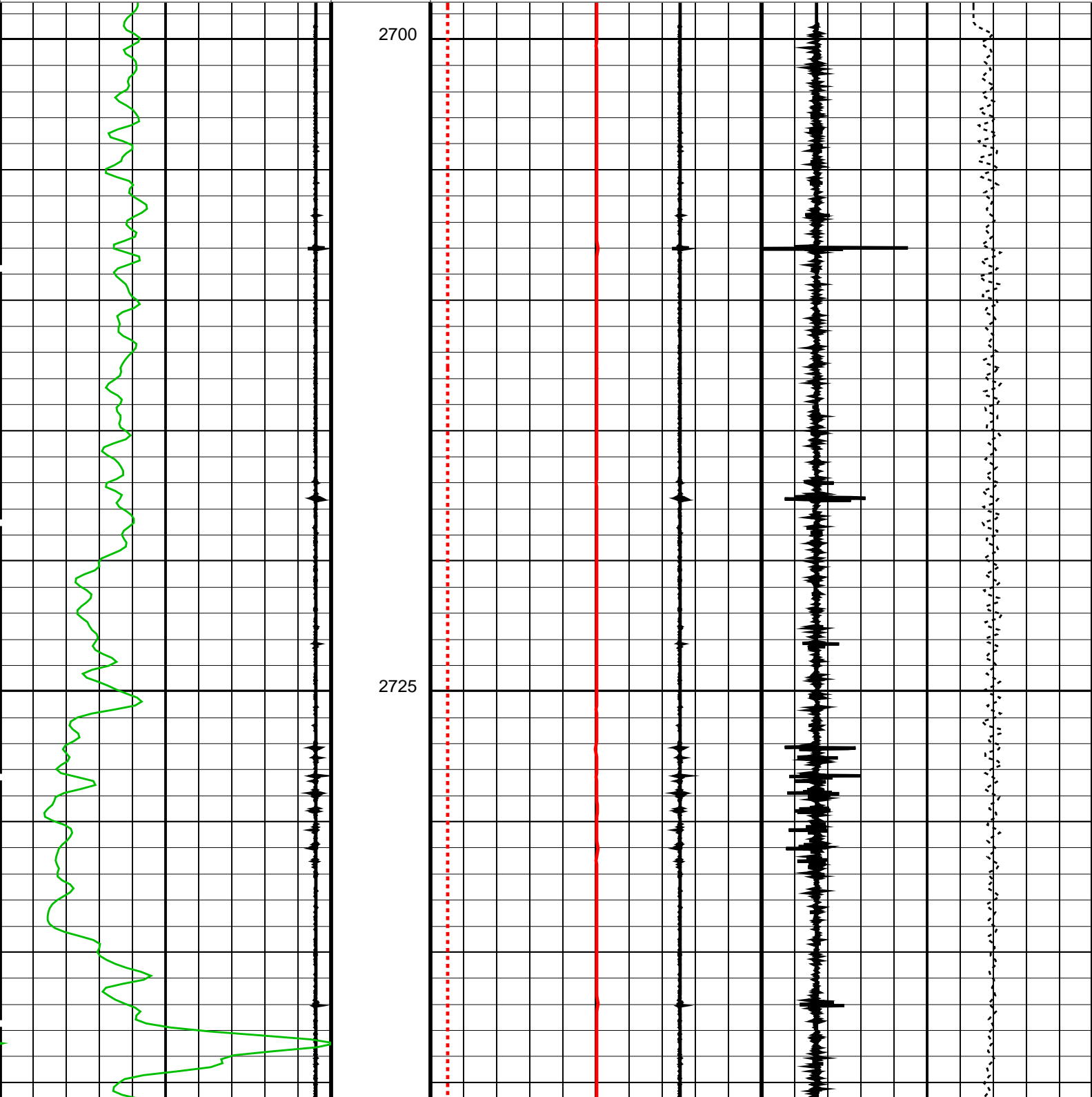
DEFAULT PERFO_027LUP FN:26 PRODUCER 13-Jun-2010 14:38 2742.9 M 2698.5 M

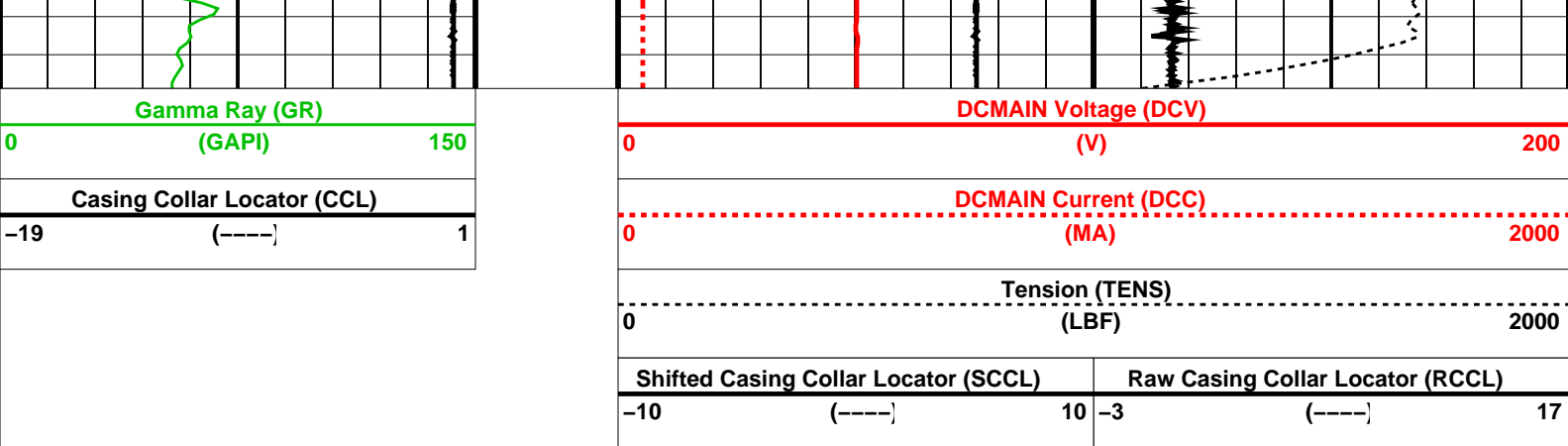
OP System Version: 17C0-154

PIP SUMMARY

Time Mark Every 60 S

			Shifted Casing Collar Locator (SCCL)		Raw Casing Collar Locator (RCCL)							
			-10	(----]	10	-3	(----]	17				
			Tension (TENS)									
			0		(LBF)		2000					
Casing Collar Locator (CCL)			DCMAIN Current (DCC)									
-19			(----]		1		0		(MA)		2000	
Gamma Ray (GR)			DCMAIN Voltage (DCV)									
0			(GAPI)		150		0		(V)		200	





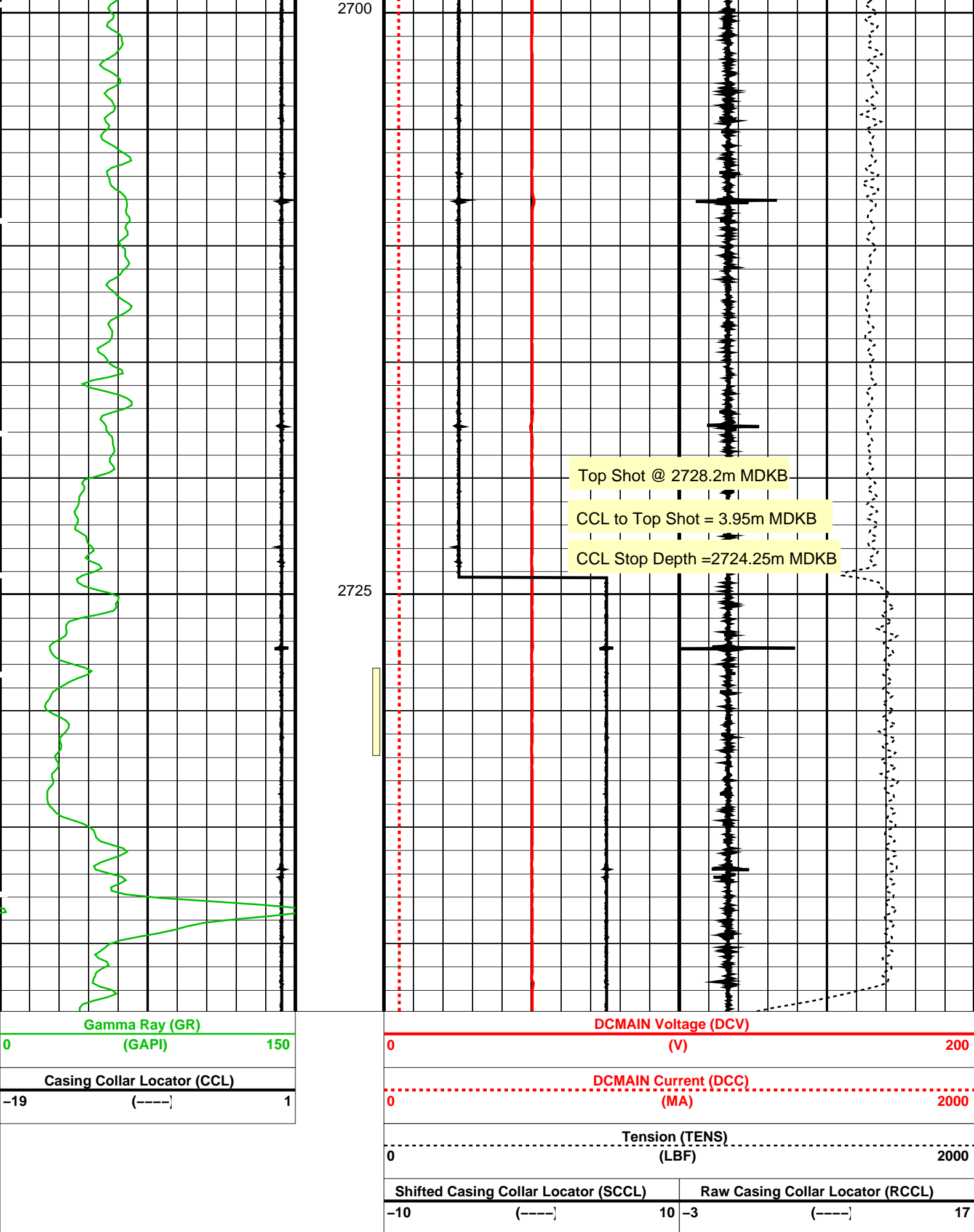
PIP SUMMARY			
Time Mark Every 60 S			
Format: PERFO_1		Vertical Scale: 1:200	Graphics File Created: 13-Jun-2010 14:38
OP System Version: 17C0-154			
SHM_GUN	17C0-154	SAFE	17C0-154
UPCT-A	17C0-154		
Output DLIS Files			
DEFAULT	PERFO_027LUP	FN:26	PRODUCER 13-Jun-2010 14:38



Gun # 1 Shooting Pass

MAXIS Field Log

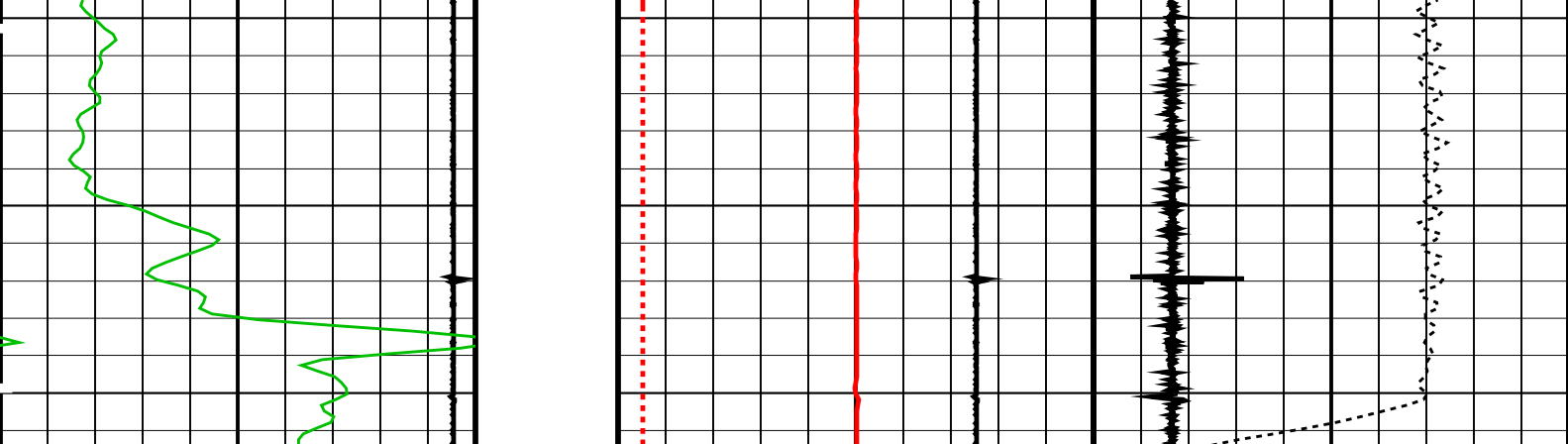
Company: Esso Australia Pty Ltd.		Well: BREAM A4B						
Output DLIS Files								
DEFAULT	PERFO_018LUP	FN:17	PRODUCER 13-Jun-2010 12:24					
OP System Version: 17C0-154								
SHM_GUN	17C0-154	SAFE	17C0-154					
UPCT-A	17C0-154							
PIP SUMMARY								
Time Mark Every 60 S								
<table><tr><th colspan="2">Casing Collar Locator (CCL)</th></tr><tr><td>-19 (----] 1</td></tr><tr><td>Gamma Ray (GR) (GAPI)</td></tr><tr><td>0 150</td></tr></table>	Casing Collar Locator (CCL)		-19 (----] 1	Gamma Ray (GR) (GAPI)	0 150	Shifted Casing Collar Locator (SCCL)		Raw Casing Collar Locator (RCCL)
	Casing Collar Locator (CCL)							
	-19 (----] 1							
	Gamma Ray (GR) (GAPI)							
	0 150							
-10 (----] 10		-3 (----] 17						
Tension (TENS) 0 (LBF) 2000								
DCMAIN Current (DCC) 0 (MA) 2000								
DCMAIN Voltage (DCV) 0 (V) 200								



Time Mark Every 60 S

Format: PERFO 1 Vertical Scale: 1:200

Graphics File Created: 13-Jun-2010 12:24



Gamma Ray (GR)		
(GAPI)		
0		150
Casing Collar Locator (CCL)		
(----)		
-19		1

DCMAIN Voltage (DCV)			
(V)			
0			200
DCMAIN Current (DCC)			
(MA)			
0			2000
Tension (TENS)			
(LBF)			
0			2000
Shifted Casing Collar Locator (SCCL)		Raw Casing Collar Locator (RCCL)	
(----)		(----)	
-10		10	-3
			17

PIP SUMMARY

Time Mark Every 60 S

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 13-Jun-2010 12:20

OP System Version: 17C0-154

SHM_GUN 17C0-154 SAFE 17C0-154
UPCT-A 17C0-154

Output DLIS Files

DEFAULT PERFO_017LUP FN:16 PRODUCER 13-Jun-2010 12:20

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **BREAM A4B**

Field: **BREAM A**

Rig : **Prod4 / Crane**

Country: **Australia**

2 1/8" Powerjet Perforation Record

4.5" Posiset Plug

Setting Record