

Company: Esso Australia Ltd.

Well: FLA A-26

Field: Flounder

Rig: Prod 4

Country: Australia

2 1/8" Enerjet Gun MWPT
Perforation Record
MPBT 5" Plug Setting Record

Field: Flounder
Location: Gippsland Basin
Well: FLA A-26
Company: Esso Australia Ltd.

LOCATION

Gippsland Basin Bass Strait	Permanent Datum:	Mean Sea Level	Elev.: K.B. 33 m G.L. -94 m D.F. 33 m
	Log Measured From:	Kelly Bushing	
State: Victoria	Drilling Measured From:	Kelly Bushing	
	Max. Well Deviation 28 deg	Longitude 148° 06' 15.1" E	Latitude 38° 18' 45.24" S

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

Unit Number

Recorded By

Witnessed By

PVT DATA

Oil Density	Run 1	Run 2	Run 3
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	28 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

Unit Number

Recorded By

Witnessed By

DEPTH SUMMARY LISTING

Date Created: 16-FEB-2006 18:18:51

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-C	Type:	2-32ZT
Serial Number:	797	Serial Number:	1037	Serial Number:	4207
Calibration Date:	01-May-2005	Calibration Date:	15-Feb-2006	Length:	5098.08 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1174	Conveyance Method: Wireline Rig Type: Offshore_Fixed	
Calibration Cable Type:	2-32ZT	Calibration Gain:	1.38		
Wheel Correction 1:	-3	Calibration Offset:	448.00		
Wheel Correction 2:	2				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	ExxonMobil Solar composite log
Reference Log Run Number:	1
Reference Log Date:	03-Feb-2002

Depth Control Remarks

1. Correlated to ExxonMobil Solar composite log provided by client
2. Used IDW as primary depth control
3. Used Z-Chart as secondary depth control
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
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
Log correlated to Solar log dated , provided by the client.
Well has a max deviation of 28 deg at 775.0 MDKB
Objective:
To perforate the well at 2714m to 2715.5m MDKB using 2 1/8" Enerjet gun loaded with PowerSpiral charges.
After perforation, obtained static FBHP of psi and FBHT degF, then
flowed well for 15 min to obtain FBHP, FBHT and also for well clean up.
Before perforation : FBHP = 3123.1 psia, FBHT = 229.5 DegF

CCL stop depth = 2694.5 MDKB
CCL to top shot = 4.5 m
CCL to gun bottom =6.0 m
Set 5" MPBT with top sealing element at approx. 2703.0m MDKB, to isolate existing perforations. Two dump bailer runs are required one water one cement to drop approximately 1.0m of cement on the plug.
CCL to top sealing element = 6.8 m
Crew: Jake Annear , Eddie Mezenberg

RUN 1			RUN 2		
PROGRAM VERSION: FLUID LEVEL:			PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

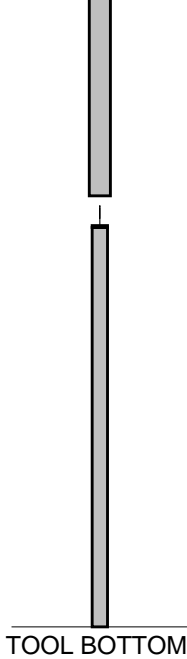
RUN 1

RUN 2

MPBM 47	SURFACE EQUIPMENT	MWPM-AA 3008	SURFACE EQUIPMENT
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DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
<div> <div>AH-SWBS</div> <div>AH-SWBS 763</div> </div>	<div> <div></div> </div>	12.35	<div> <div>AH-SWBS</div> <div>AH-SWBS 761</div> </div>	<div> <div></div> </div>	10.34
<div> <div>AH-SWBS</div> <div>AH-SWBS 762</div> </div>	<div> <div></div> </div>	11.67	<div> <div>AH-SWBS</div> <div>AH-SWBS 762</div> </div>	<div> <div></div> </div>	9.65
<div> <div>AH-SWBS</div> <div>AH-SWBS 761</div> </div>	<div> <div></div> </div>	10.98	<div> <div>AH-SWBS</div> <div>AH-SWBS 763</div> </div>	<div> <div></div> </div>	8.97
<div> <div>MH-SWHS</div> <div>MH-SWHS 726</div> </div>	<div> <div>CCL</div> <div>Tachomete</div> <div>Cable Cur</div> <div>Head Volt</div> <div>Tension</div> <div></div> </div>	10.30	<div> <div>MH-SWHS 726</div> <div>MH-SWHS 726 726</div> </div>	<div> <div></div> </div>	8.28
<div> <div>CCL-L</div> <div>CCL-L 4191</div> </div>	<div> <div>TOOL ZERO</div> </div>	9.97	<div> <div>MWGT-AA</div> <div>MWPG-AA 19</div> <div>MWGH-AA 19</div> </div>	<div> <div></div> </div>	7.95
<div> <div>MPSU-CA</div> <div>MPSU-CA 1011</div> </div>	<div> <div></div> </div>	9.51	<div> <div>MWPG GR</div> </div>	<div> <div></div> </div>	2.41
			<div> <div>MWPT-CA</div> <div>MWPH-AA 74</div> <div>MWPS-AA 74</div> </div>	<div> <div></div> </div>	6.97
			<div> <div>CCL</div> <div>SMWP Pres</div> <div>SMWP Temp</div> <div>Tension</div> <div></div> </div>	<div> <div>TOOL ZERO</div> </div>	
			<div> <div>AH-FLEX JOINT</div> <div>AH-FLEX JOINT 42</div> </div>	<div> <div></div> </div>	4.15
			<div> <div>AH-SAH G</div> </div>	<div> <div></div> </div>	3.85

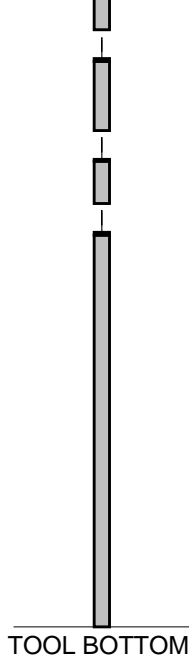
MPEX-AA
MPEX-AA



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

3.10

AH-SAH-G
AH-SAH-G 1047
MPD-MB
MPD-MB 2868
AH-ESIC
AH-ESIC 4100821
MWP_GUN
GUN-Enerjet



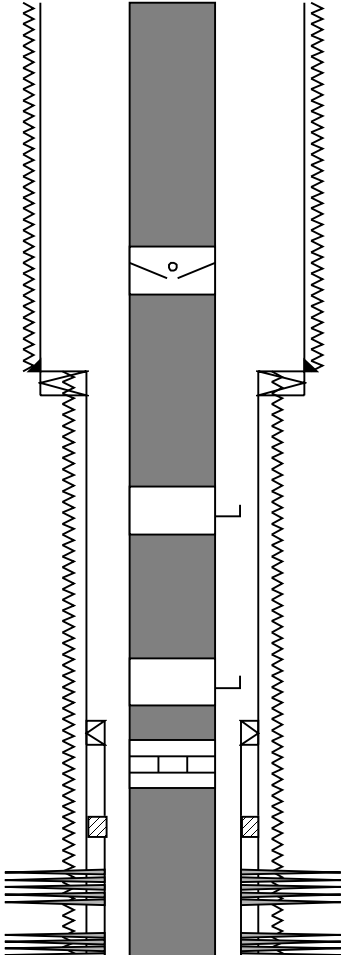
MAXIMUM STRING DIAMETER 1.69 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

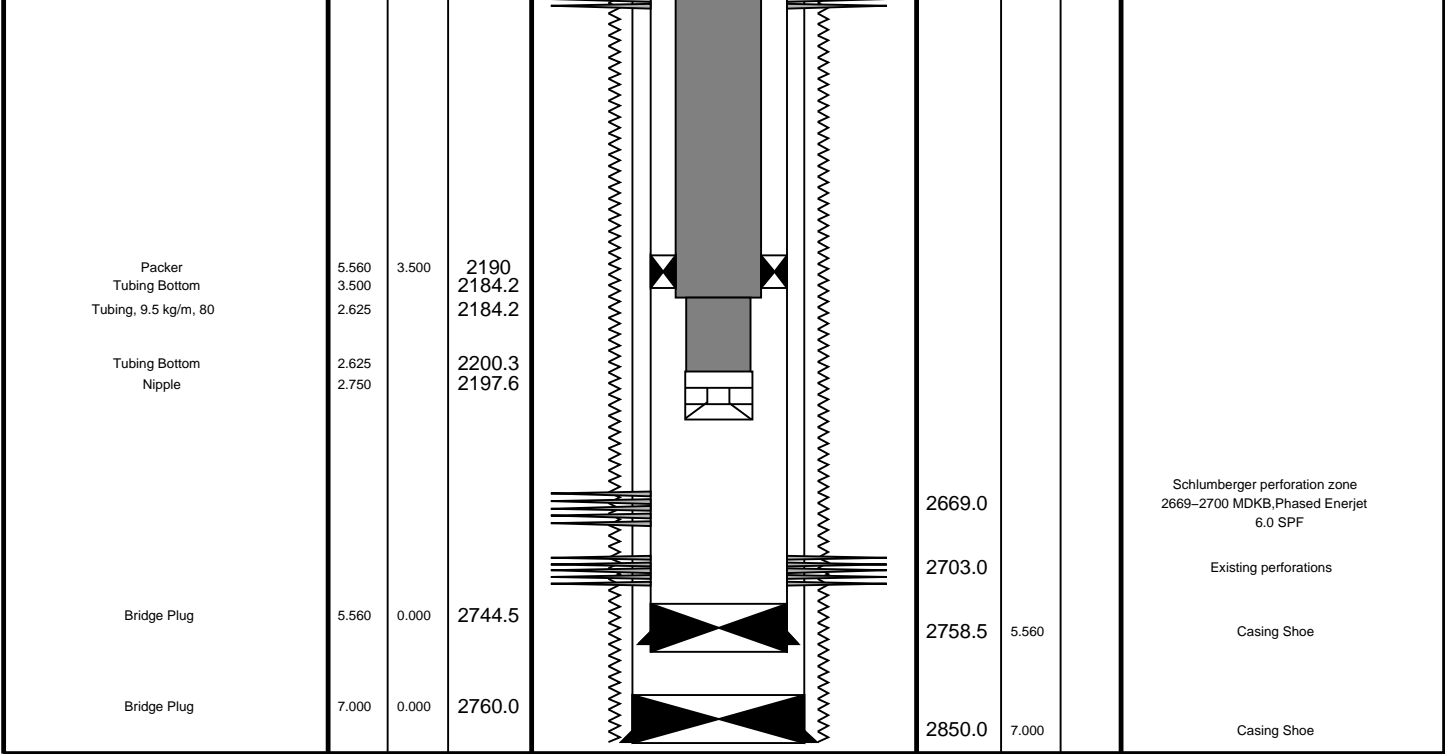
3.83
3.54
3.05
2.74

Client: Esso Australia Ltd
Well: A_26
Field: Bass Strait
State: Victoria
Country: Australia

Rig Name: Flounder
Reference Datum: Mean Sea Level
Elevation: 33.0 m

Drawing Date: 2/12/2006

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing, 13.7 kg/m, 80	3.500		12.4		11.8	10.750		Casing String, 60.4 lbs/ft, K-55
						11.750		Borehole Segment
Sub Surface Safety valve	3.500		455.3		629.0	10.750		Casing Shoe
						7.000		Casing String, 38.8 kg/m, K-55
						10.750	7.000	Liner Hanger
						8.500		Borehole Segment
Gas Lift Mandrel	3.500		834.8					
Gas Lift Mandrel	3.500		1201.4					
Nipple	3.500		1217.6		1211.0	5.560		Casing String, 26.8 kg/m, 13CR-80
					1211.0	7.000	5.560	Liner Hanger
Liner packer			1214.04					
					1257.0			Perforation for remdial squeeze
					1517.7			Perforation for remdial squeeze



Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Rig Up Started	12-Feb-2006 9:40		
Log Pass (up)	12-Feb-2006 11:09 000:07	2729.6 – 2654.0	PERFO_009LUP
Log Pass (up)	12-Feb-2006 11:27 000:31	2720.2 – 2628.3	PERFO_013LUP
Station Log	12-Feb-2006 11:31 000:18	2694.5 – 2.8	PERFO_014LTP
Rig Down Completed	12-Feb-2006 13:00		

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File	
Rig Up Started	15-Feb-2006 14:40				
Dummy run					
Log Pass (up)	15-Feb-2006 15:45	000:09	2733.6 – 2631.5	PSP_044LUP	
Dummy Correlation					
Rig Down Completed	15-Feb-2006 17:50				
Dummy Run					
Rig Up Started	16-Feb-2006 9:15				
MPBT Setting Pass					
Log Pass (up)	16-Feb-2006 10:47	000:04	2720.0 – 2696.3	MPBT_055LUP	
Before setting MPBT depth log					
Simulated Log	16-Feb-2006 10:52	000:18		MPBT_056LUP	
Station log					
Log Pass (up)	16-Feb-2006 11:16	000:06	2696.1 – 2642.9	MPBT_059LUP	
After setting MPBT depth log					
Rig Down Completed	16-Feb-2006 11:25				
MPBT Setting Pass					
Rig Up Started	16-Feb-2006 12:00				
Dump Bailer Water Run					
Log Pass (up)	16-Feb-2006 13:55	000:08	2697.8 – 2648.1	PERFO_067LUP	
Water dumped					
Rig Up Started	16-Feb-2006 15:10				
Dump bailer cement run					
Log Pass (up)	16-Feb-2006 15:33	000:07	2697.9 – 2648.4	PERFO_071LUP	
Cement dumped					
Rig Down Completed	16-Feb-2006 16:45				
Dump bailer cement					



Operational Summary Listing

MAXIS Field Log

PERFO2 MWPT Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
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GUN1	Used	2699.0	2699.0	Sun Feb 12 11:37:19 2006
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PERFO2 Water Dump Bailer Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
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GUN1	Used	2702.5	2702.5	Thu Feb 16 13:58:08 2006
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PERFO2 Cement Dump Bailer Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
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GUN1	Used	2702.5	2702.5	Thu Feb 16 15:34:53 2006
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5" MPBT Plug
Cement Dump Bailer

MAXIS Field Log

Company: Esso Australia Ltd. Well: FLA A-26

Output DLIS Files

DEFAULT PERFO_071LUP FN:69 PRODUCER 16-Feb-2006 15:33 2697.9 M 2648.4 M

OP System Version: 13C0-300
MCM

SHM_GUN 13C0-300 CCL-L 13C0-300

PIP SUMMARY

Time Mark Every 60 S

Casing Collar Locator (CCL)

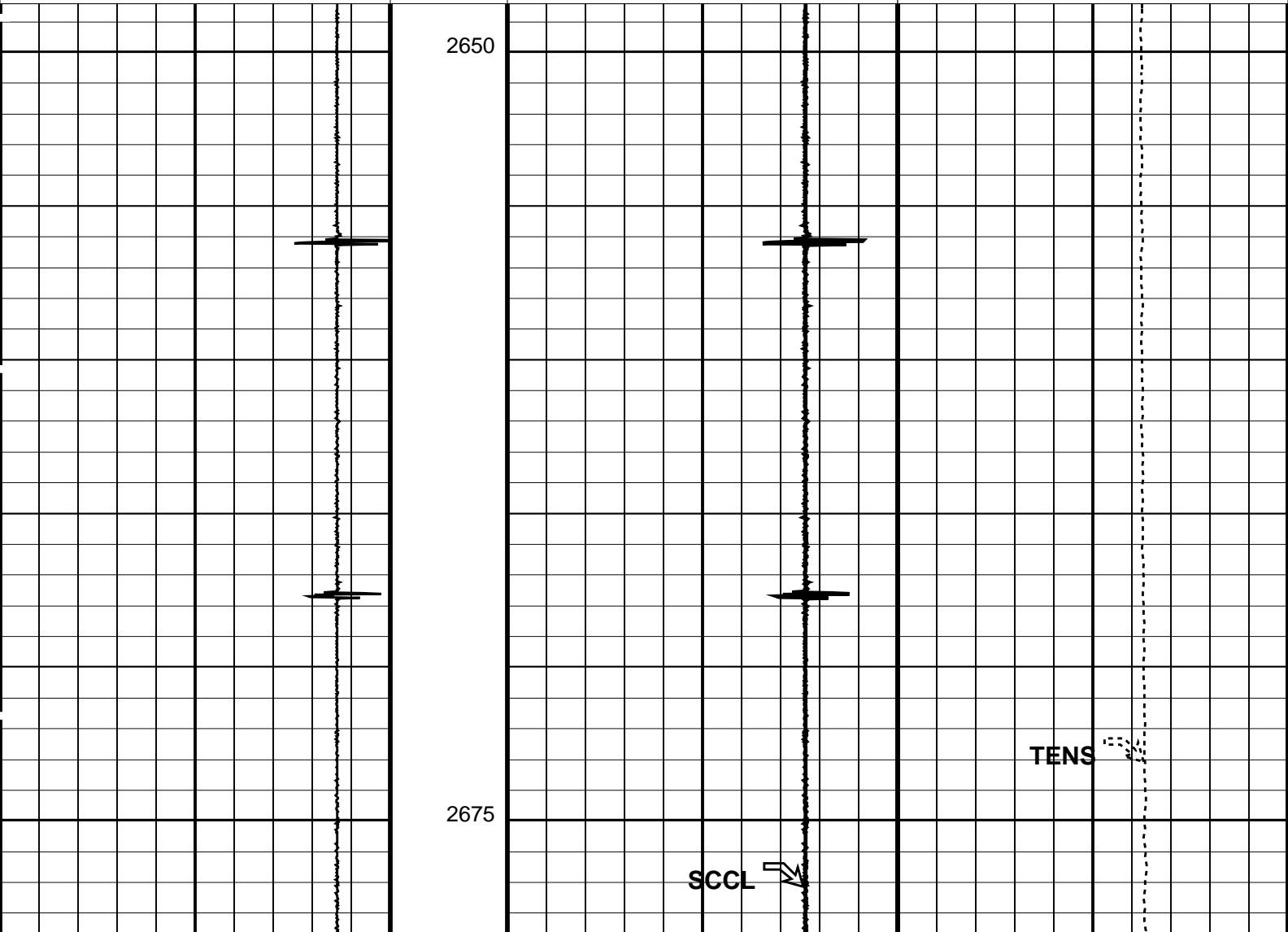
-17 (----) 3

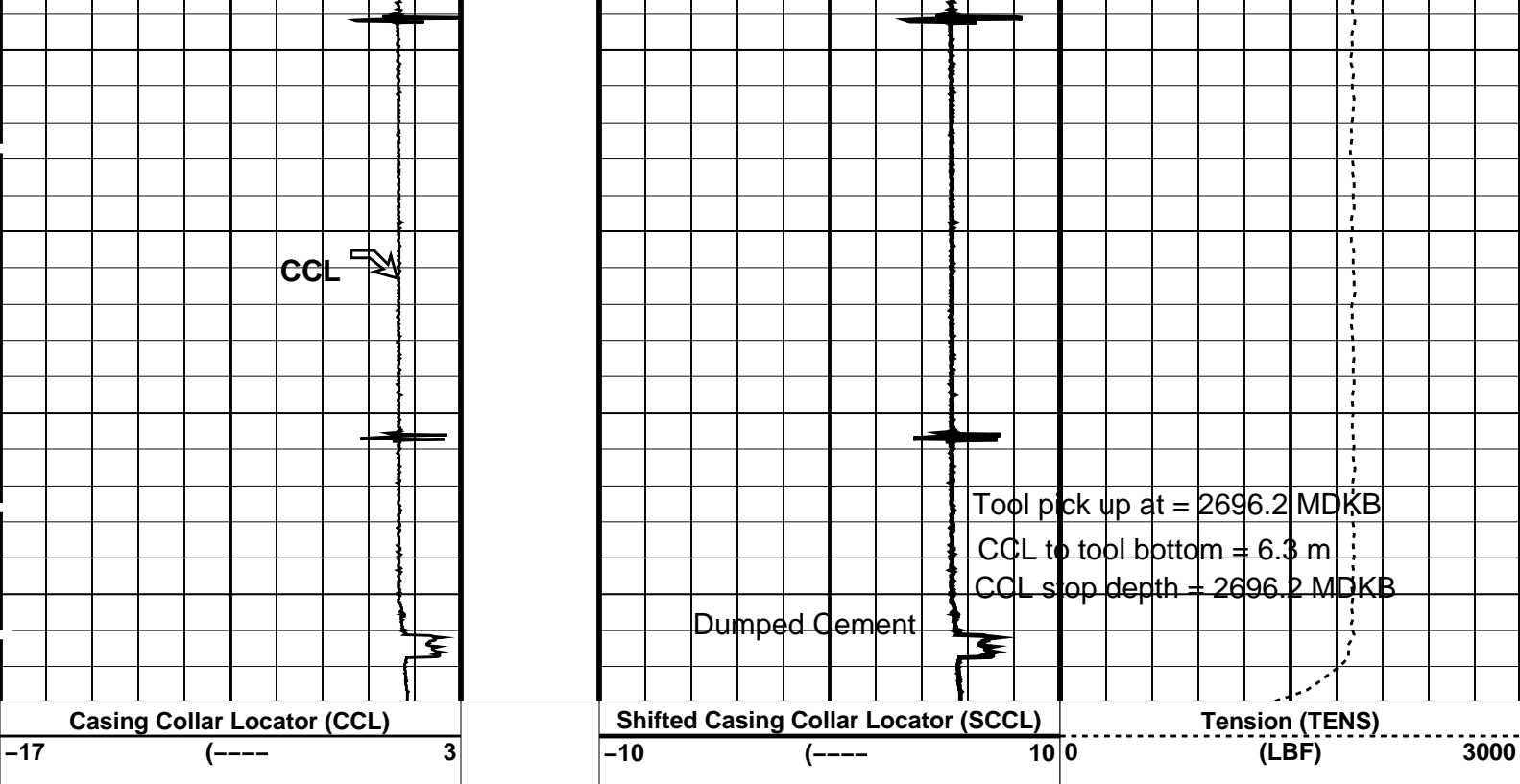
Shifted Casing Collar Locator (SCCL)

-10 (----) 10 0

Tension (TENS)

(LBF) 3000





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

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 16-Feb-2006 15:33

OP System Version: 13C0-300

MCM

SHM_GUN 13C0-300 CCL-L 13C0-300

Output DLIS Files

DEFAULT PERFO_071LUP FN:69 PRODUCER 16-Feb-2006 15:33

Schlumberger

5" MPBT Plug
Water Dump Bailer

MAXIS Field Log

Company: Esso Australia Ltd.

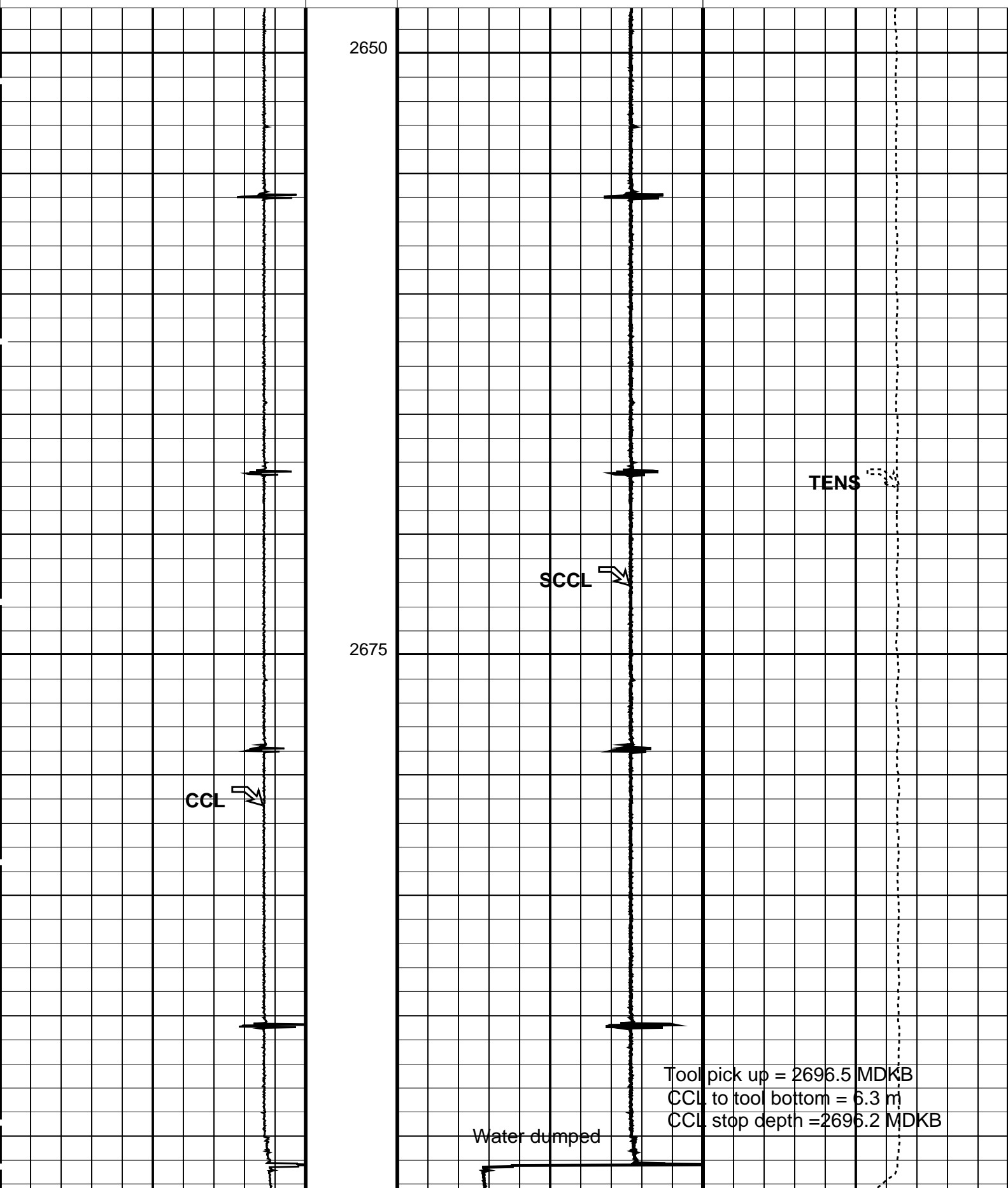
Well: FLA A-26

Output DLIS Files

DEFAULT PERFO_067LUP FN:65 PRODUCER 16-Feb-2006 13:55 2697.8 M 2648.1 M

OP System Version: 13C0-300

MCM



Casing Collar Locator (CCL)										Shifted Casing Collar Locator (SCCL)										Tension (TENS)									
-17 (---- 3										-10 (---- 10 0										(LBF) 3000									

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

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 16-Feb-2006 13:55

OP System Version: 13C0-300			
MCM			
SHM_GUN	13C0-300	CCL-L	13C0-300

Output DLIS Files			
DEFAULT	PERFO_067LUP	FN:65	PRODUCER 16-Feb-2006 13:55



5 " MPBT Plug
After Setting depth log

MAXIS Field Log

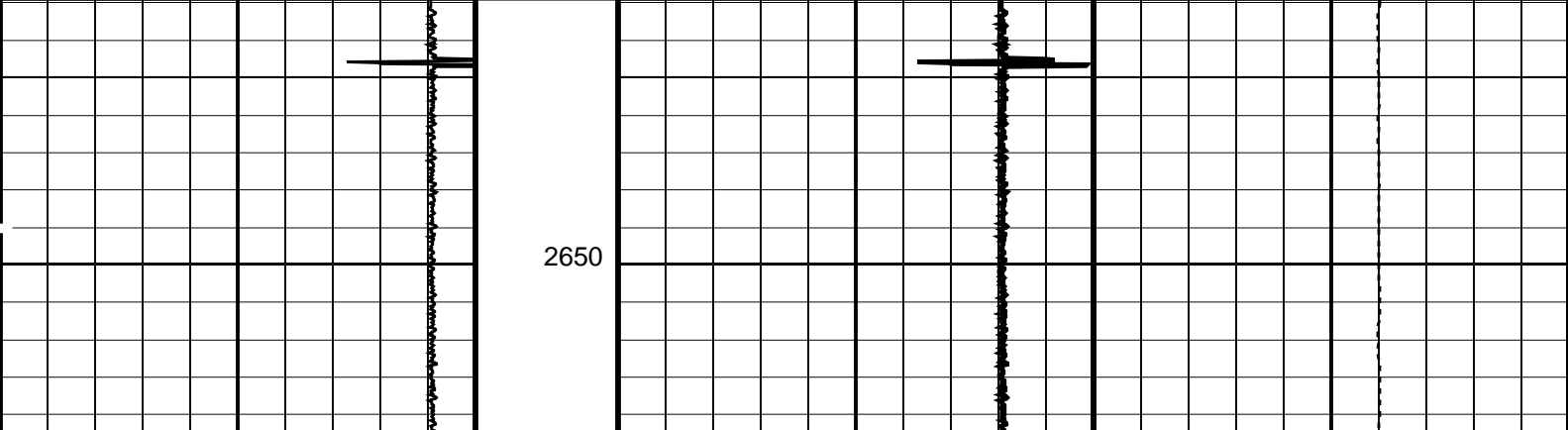
Company: Esso Australia Ltd. Well: FLA A-26

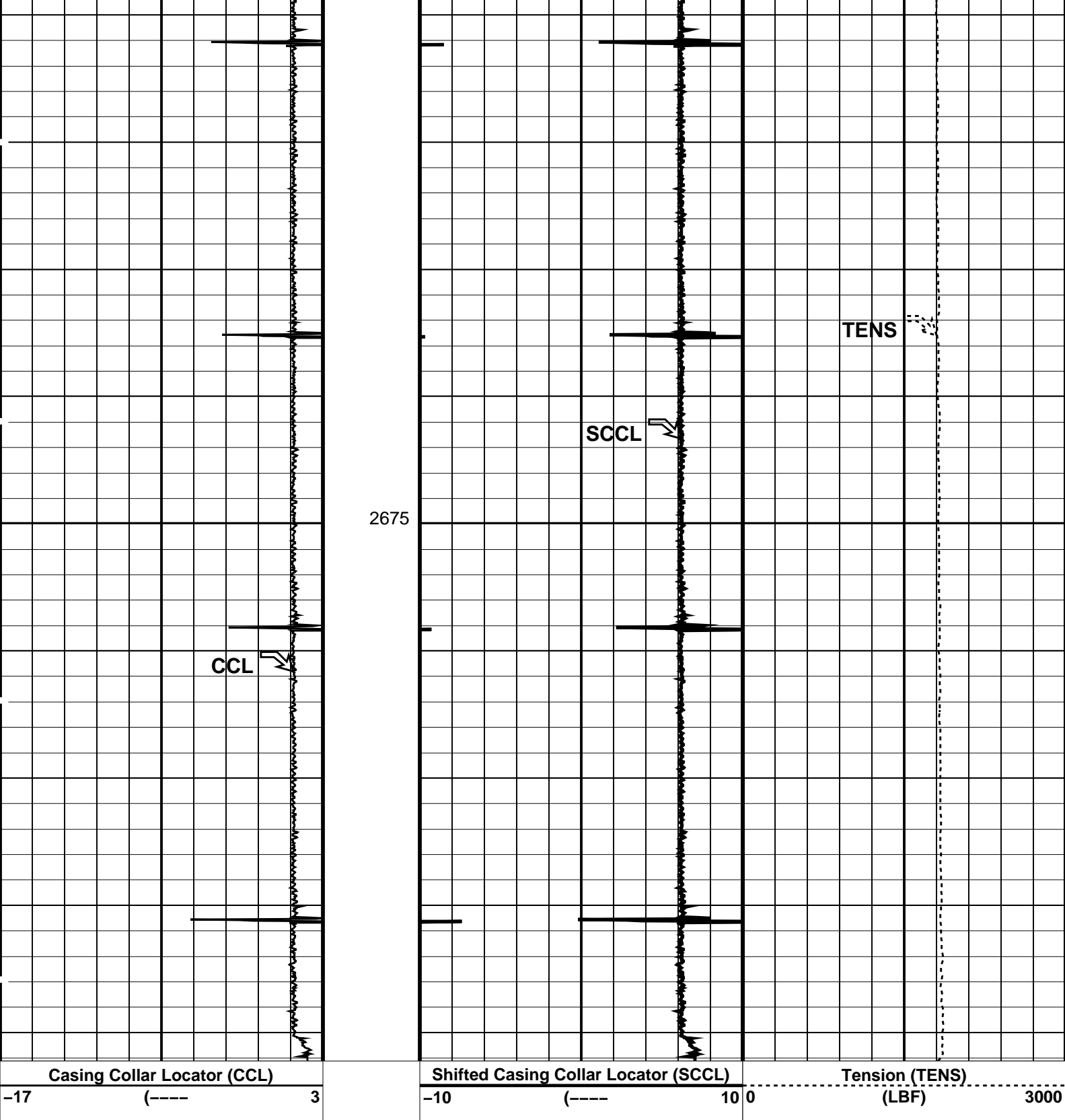
Output DLIS Files					
DEFAULT	MPBT_059LUP	FN:57	PRODUCER	16-Feb-2006 11:16	2696.1 M 2642.9 M

OP System Version: 13C0–300			
MCM			
MPEX–AA	13C0–300	MPSU–CA	13C0–300
CCL–L	13C0–300		

PIP SUMMARY

Casing Collar Locator (CCL)										Shifted Casing Collar Locator (SCCL)										Tension (TENS)									
-17 (---- 3										-10 (---- 10 0										(LBF) 3000									





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

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 16-Feb-2006 11:16

OP System Version: 13C0-300
MCM

MPEX-AA
CCL-L

13C0-300
13C0-300

MPSU-CA

13C0-300

Output DLIS Files

DEFAULTMPBT_059LUPFN:57PRODUCER16-Feb-2006 11:16

Schlumberger

5 " MPBTPlug
Station Log

MAXIS Field Log

Company: Esso Australia Ltd.

Well: FLA A-26

Output DLIS Files

DEFAULTMPBT_056LUPFN:54PRODUCER16-Feb-2006 10:5212192.0 M11926.7 M

OP System Version: 13C0-300

MCM

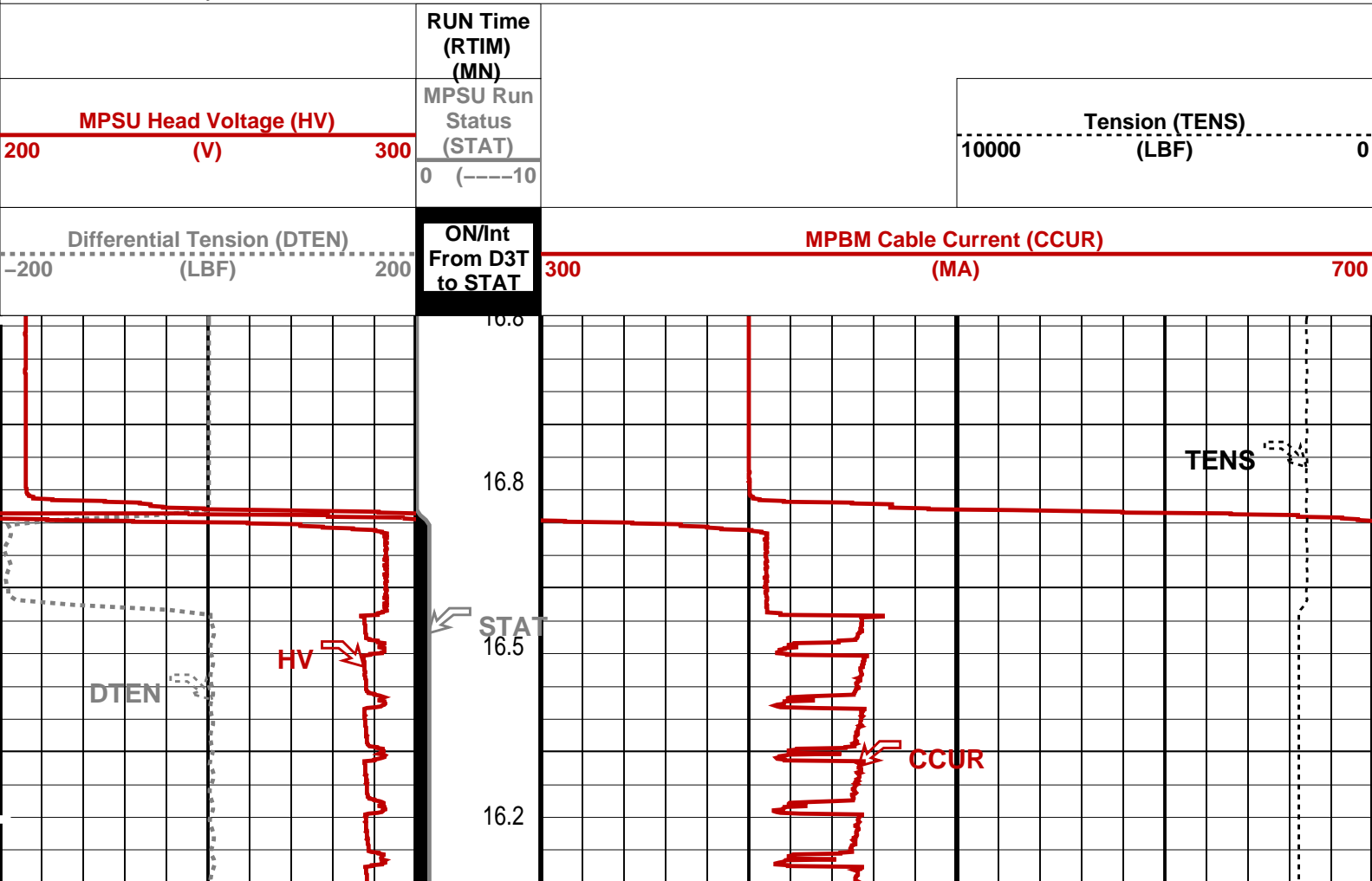
MPEX-AA13C0-300MPSU-CA13C0-300CCL-L13C0-300

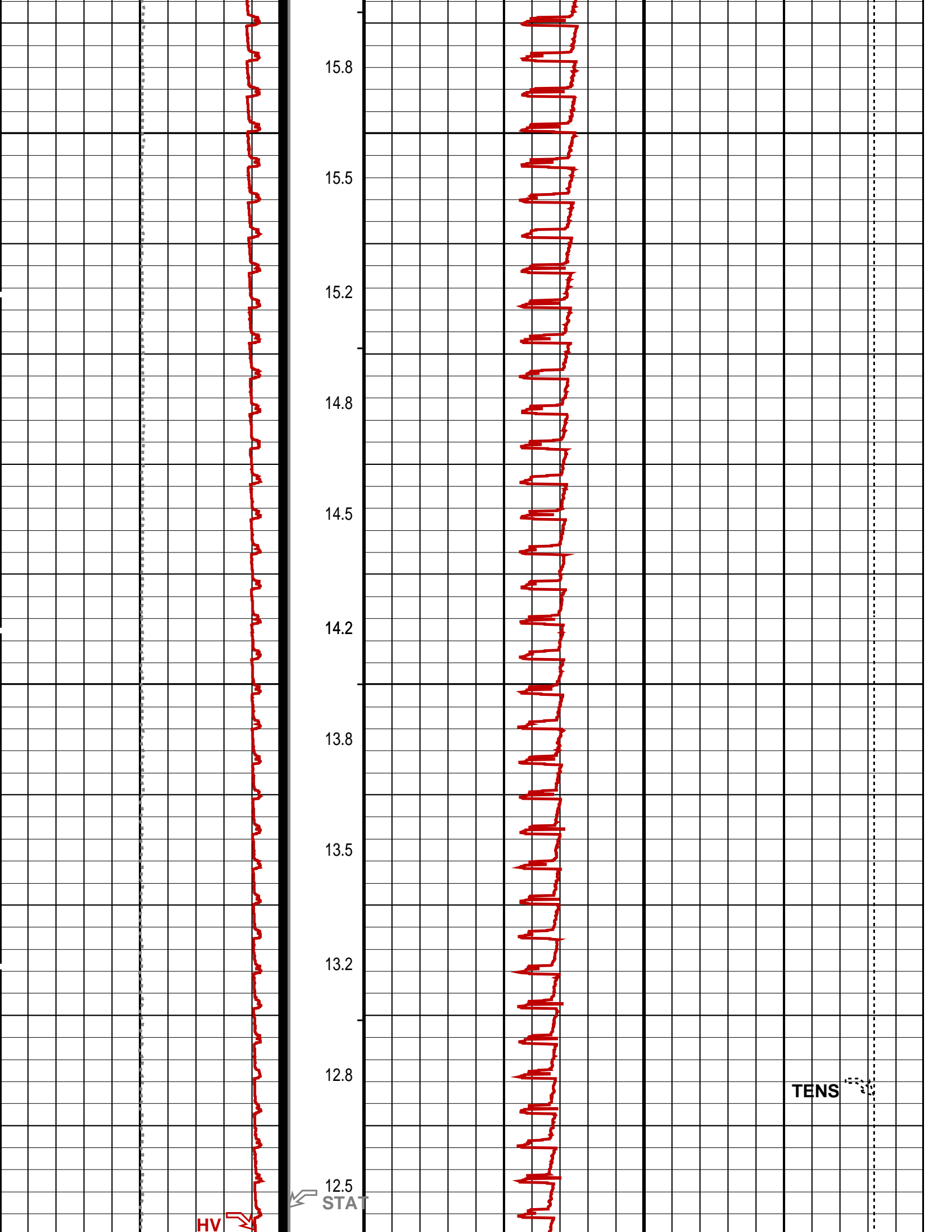
PIP SUMMARY

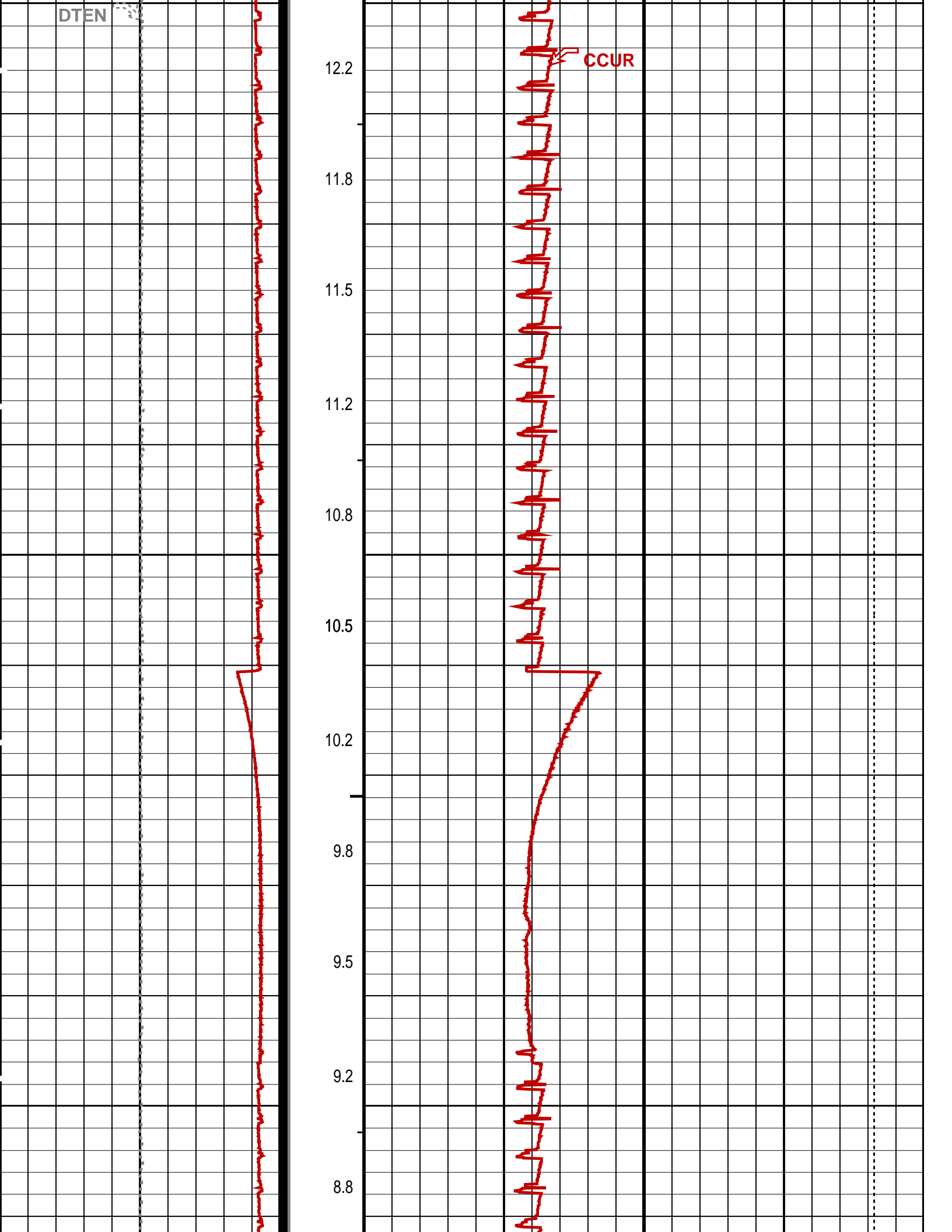
↵ MPSU Run Time Every 1 MN

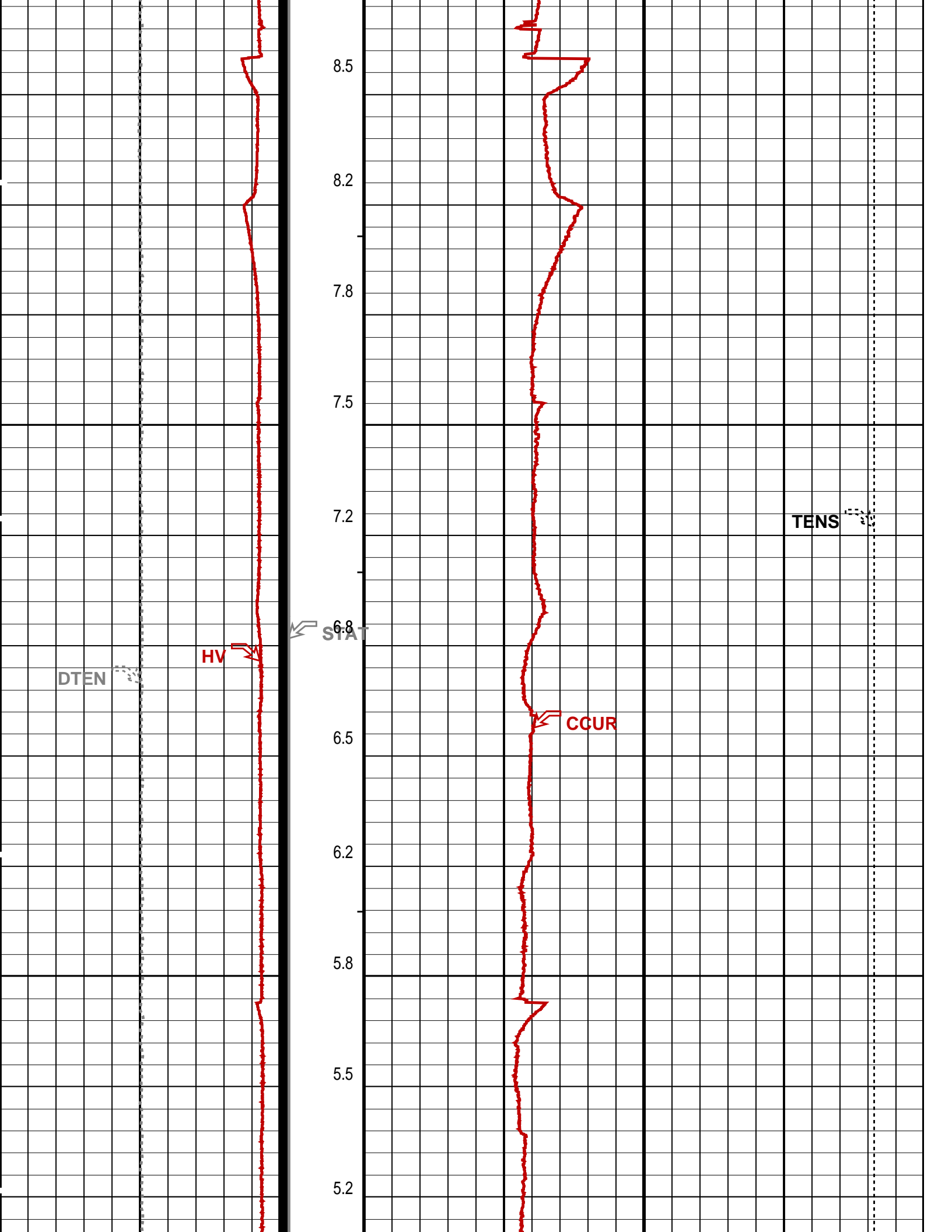
↵ MPSU Run Time Every 10 MN

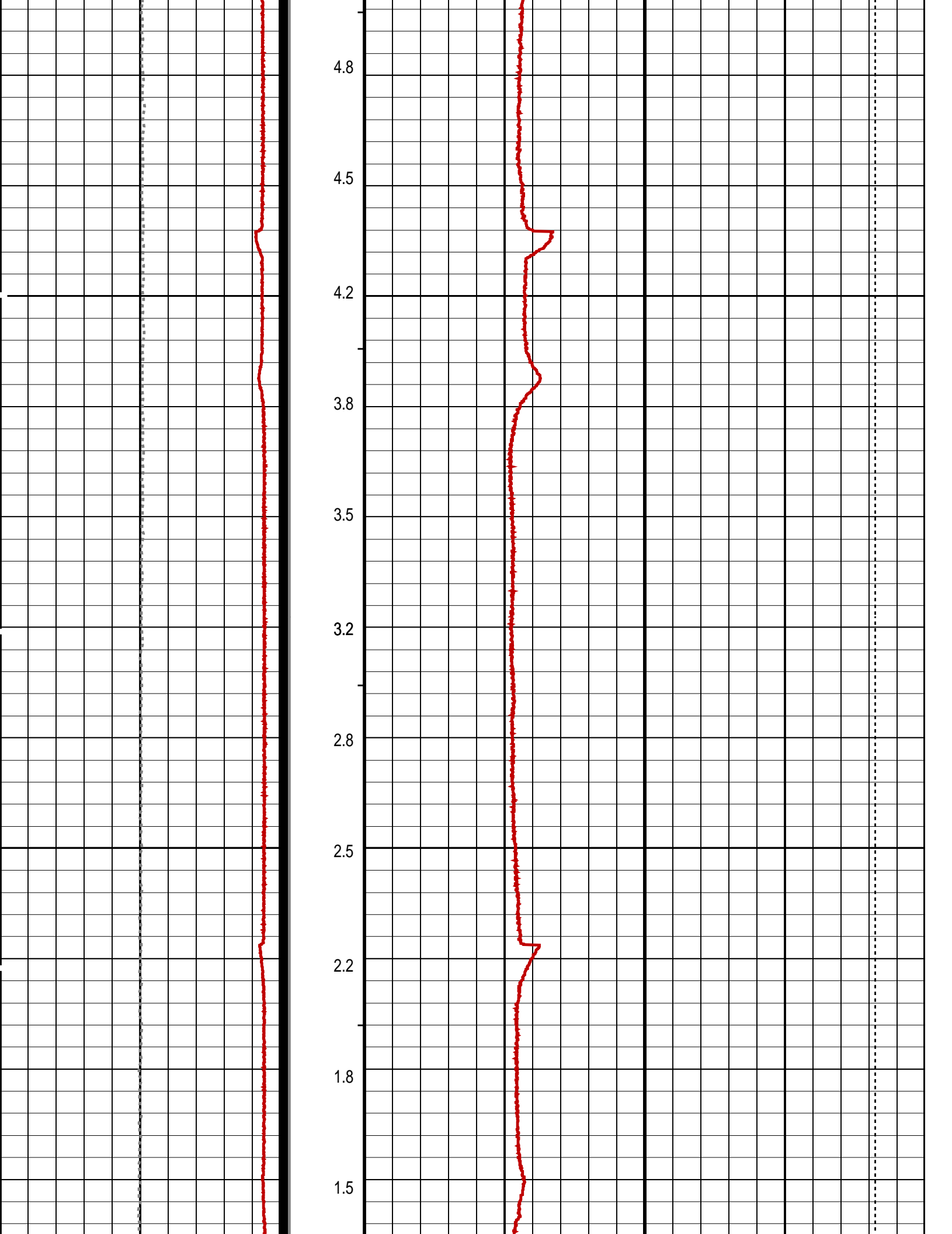
Time Mark Every 60 S

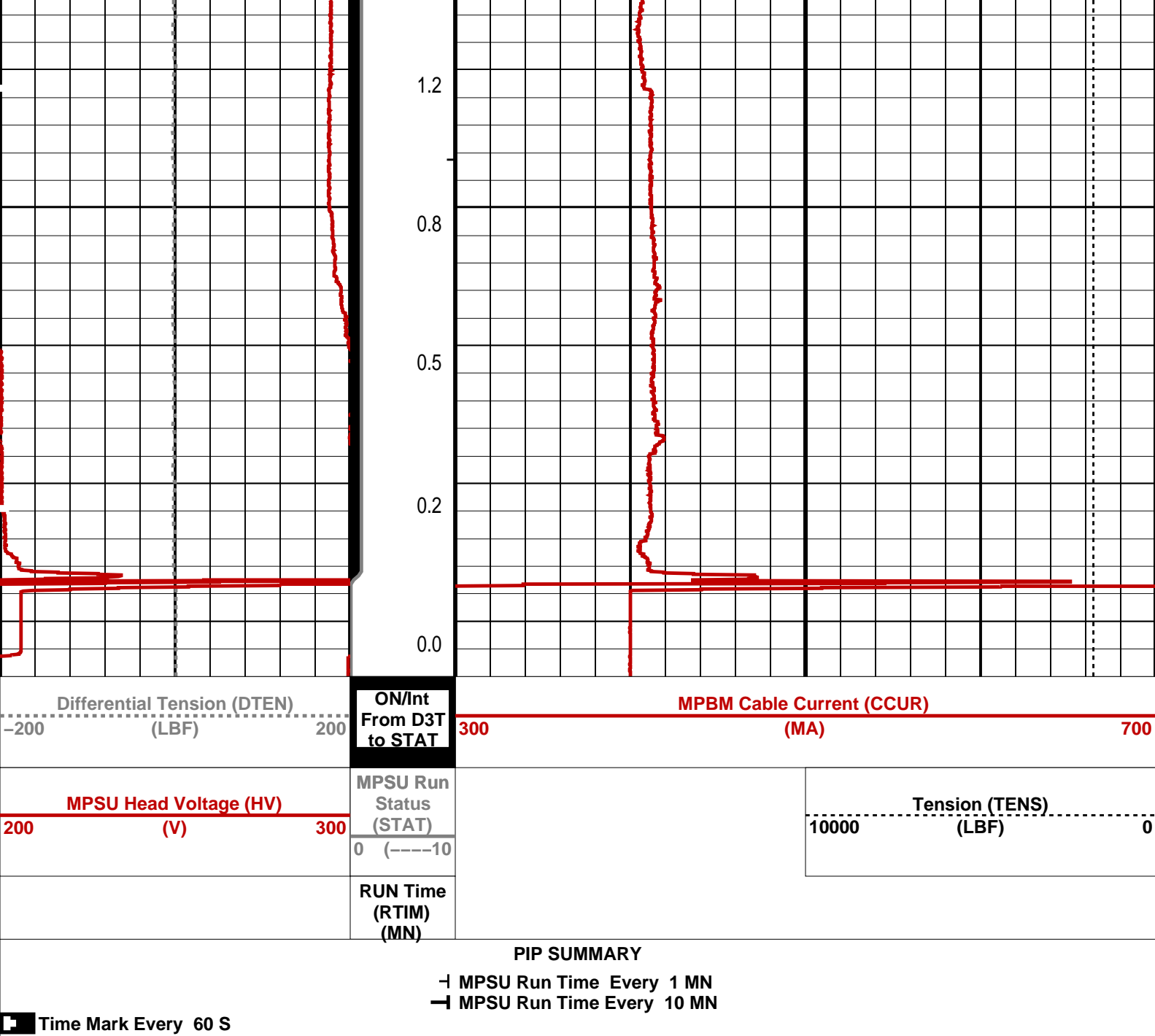












Parameters			
DLIS Name	Description		Value
IPUMP	MPSU-CA: MECHANICAL PLUGBACK SETTING UNIT Intensifier Pump		TRUE
Format: MPBT		Vertical Scale: 1:200	Graphics File Created: 16-Feb-2006 10:53
OP System Version: 13C0-300 MCM			
MPEX-AA CCL-L	13C0-300 13C0-300	MPSU-CA	13C0-300
Output DLIS Files			
DEFAULT	MPBT_056LUP	FN:54	PRODUCER 16-Feb-2006 10:52

MAXIS Field Log

Company: Esso Australia Ltd.

Well: FLA A-26

Output DLIS Files

DEFAULT MPBT_055LUP FN:53 PRODUCER 16-Feb-2006 10:47 2720.0 M 2696.3 M

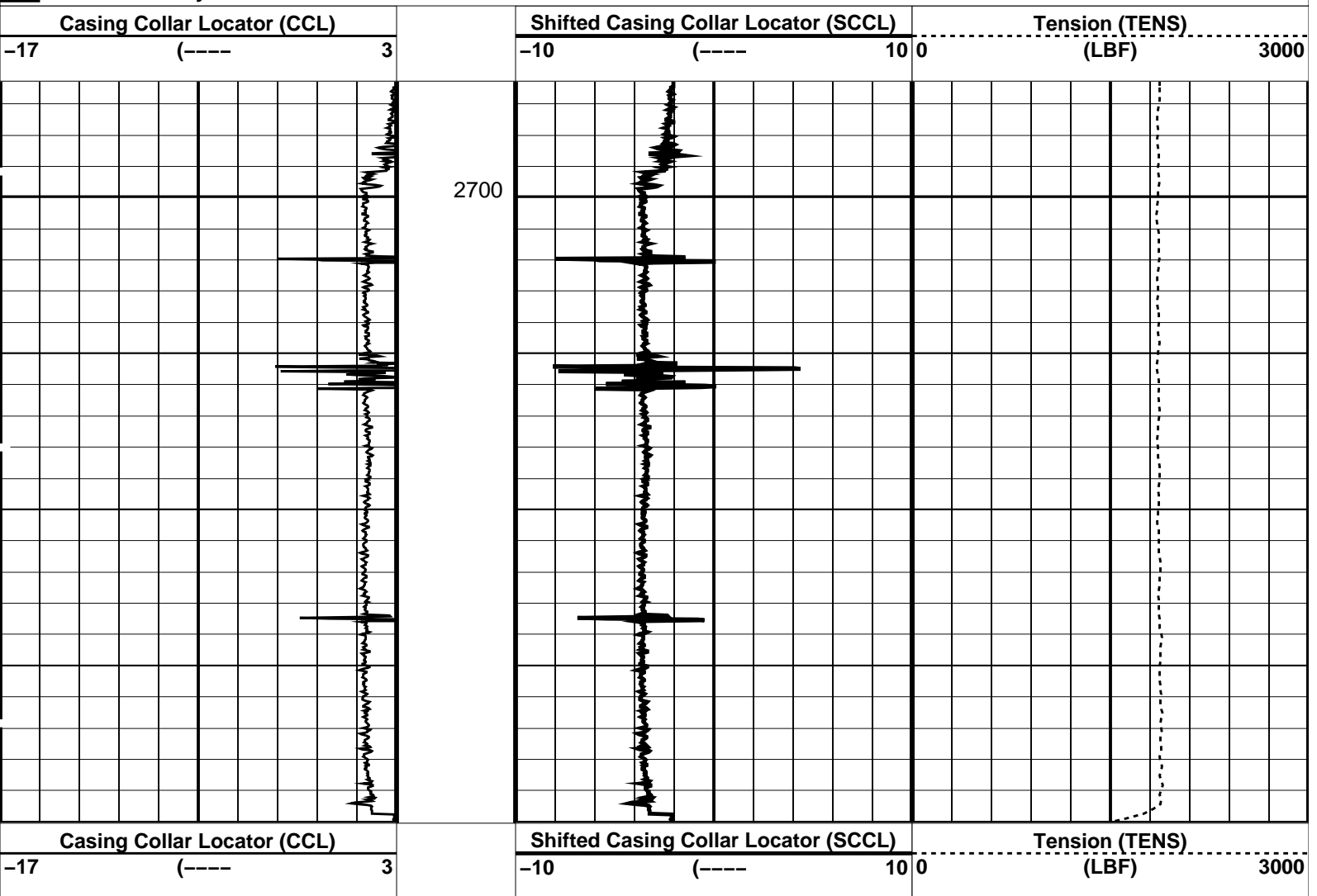
OP System Version: 13C0-300

MCM

MPEX-AA 13C0-300 MPSU-CA 13C0-300
CCL-L 13C0-300

PIP SUMMARY

Time Mark Every 60 S



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

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 16-Feb-2006 10:47

OP System Version: 13C0-300
MCM

MPEX-AA 13C0-300 MPSU-CA 13C0-300
CCL-L 13C0-300

Output DLIS Files

DEFAULT MPBT_055LUP FN:53 PRODUCER 16-Feb-2006 10:47



5 " MPBT Plug
Dummy Run

MAXIS Field Log

Input DLIS Files

DEFAULT PSP_044LUP FN:42 PRODUCER 15-Feb-2006 15:45 2733.6 M 2631.5 M

Output DLIS Files

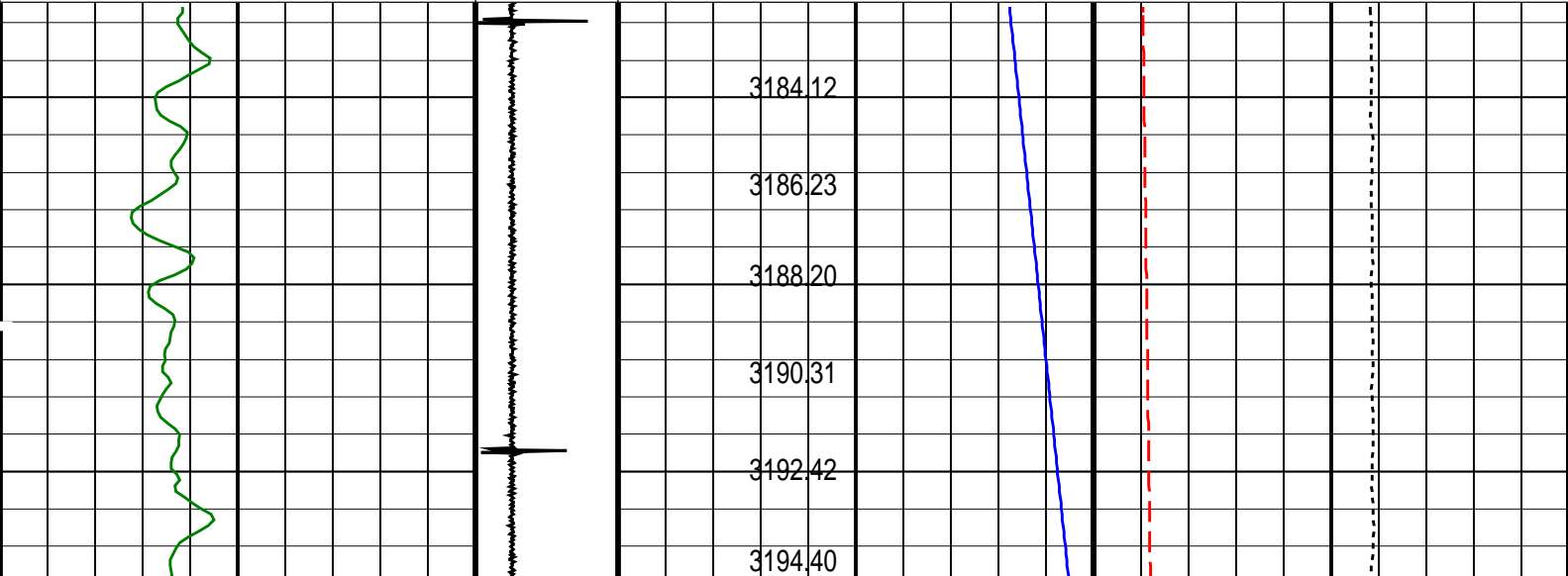
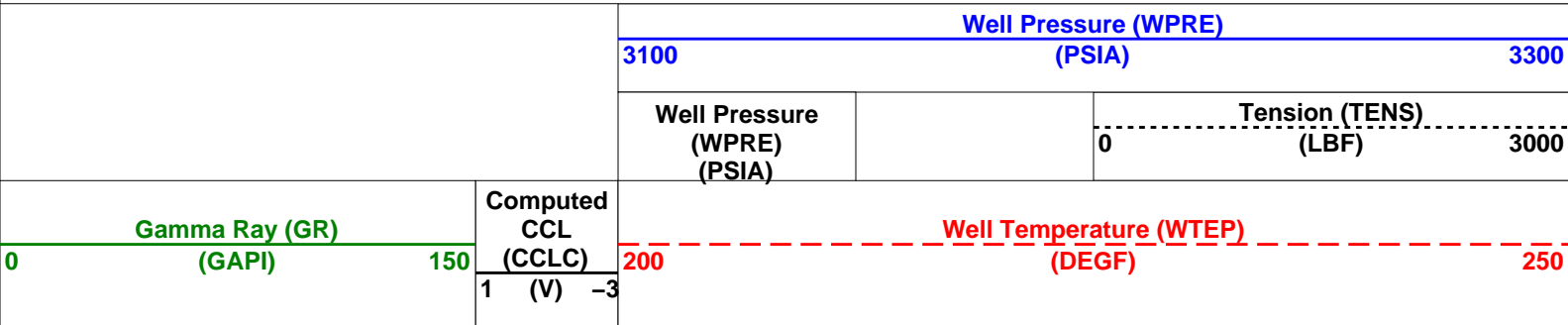
DEFAULT PSP_045PUP FN:43 PRODUCER 15-Feb-2006 15:56 2734.1 M 2632.4 M

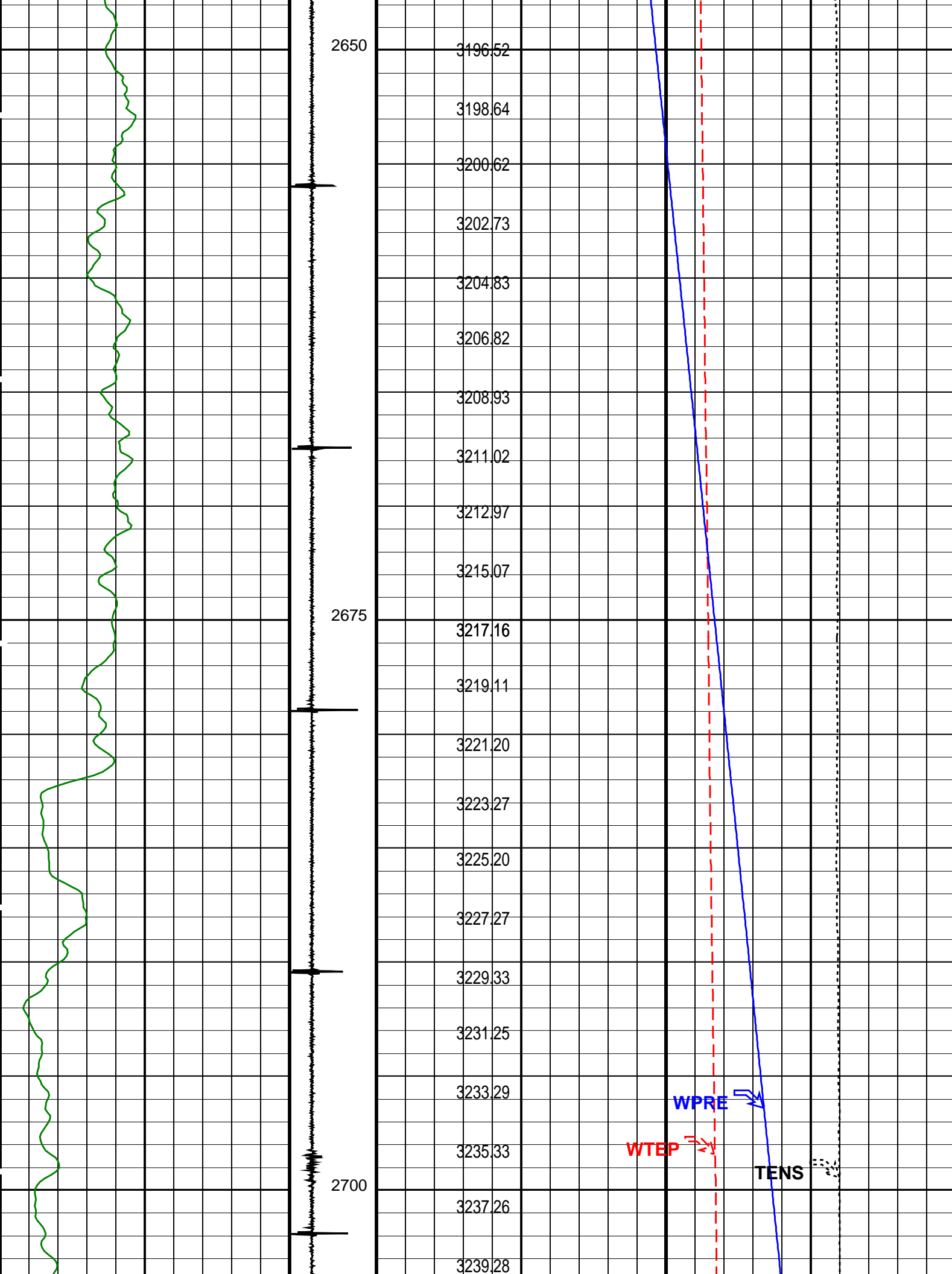
OP System Version: 13C0-300
MCM

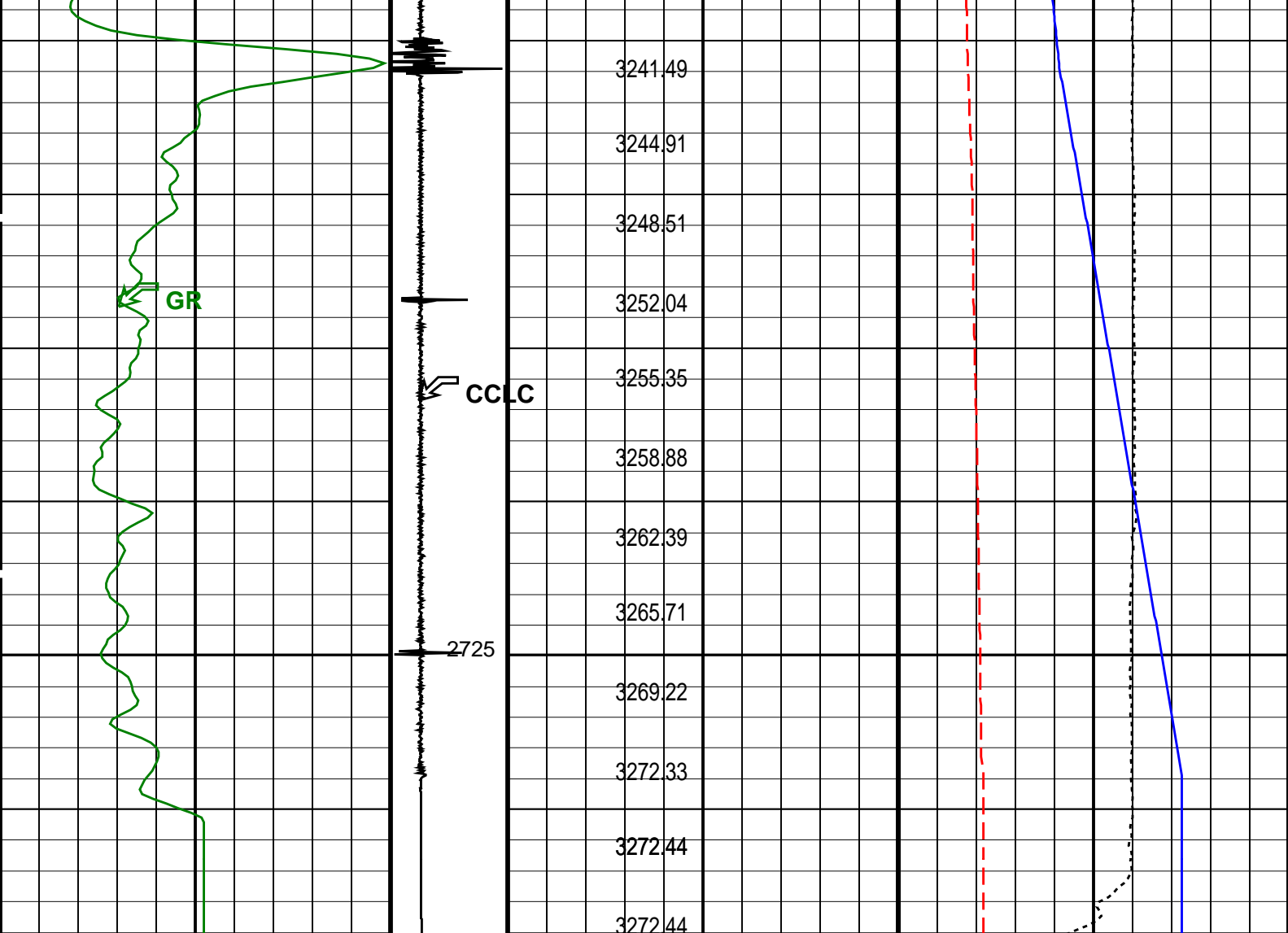
PSPT-A/B 13C0-300

PIP SUMMARY

Time Mark Every 60 S







Gamma Ray (GR) (GAPI)		150	Well Temperature (WTEP) (DEGF)		250
Computed CCL (CCLC)		1 (V) -3	Well Pressure (WPRE) (PSIA)		3100
			Tension (TENS) (LBF)		3000
			Well Pressure (WPRE) (PSIA)		3300

PIP SUMMARY		
Time Mark Every 60 S		
Format: PSP_1	Vertical Scale: 1:200	Graphics File Created: 15-Feb-2006 15:56

OP System Version: 13C0-300		
MCM		
PSPT-A/B	13C0-300	

Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	0.4 M
	Playback Processing	NORMAL

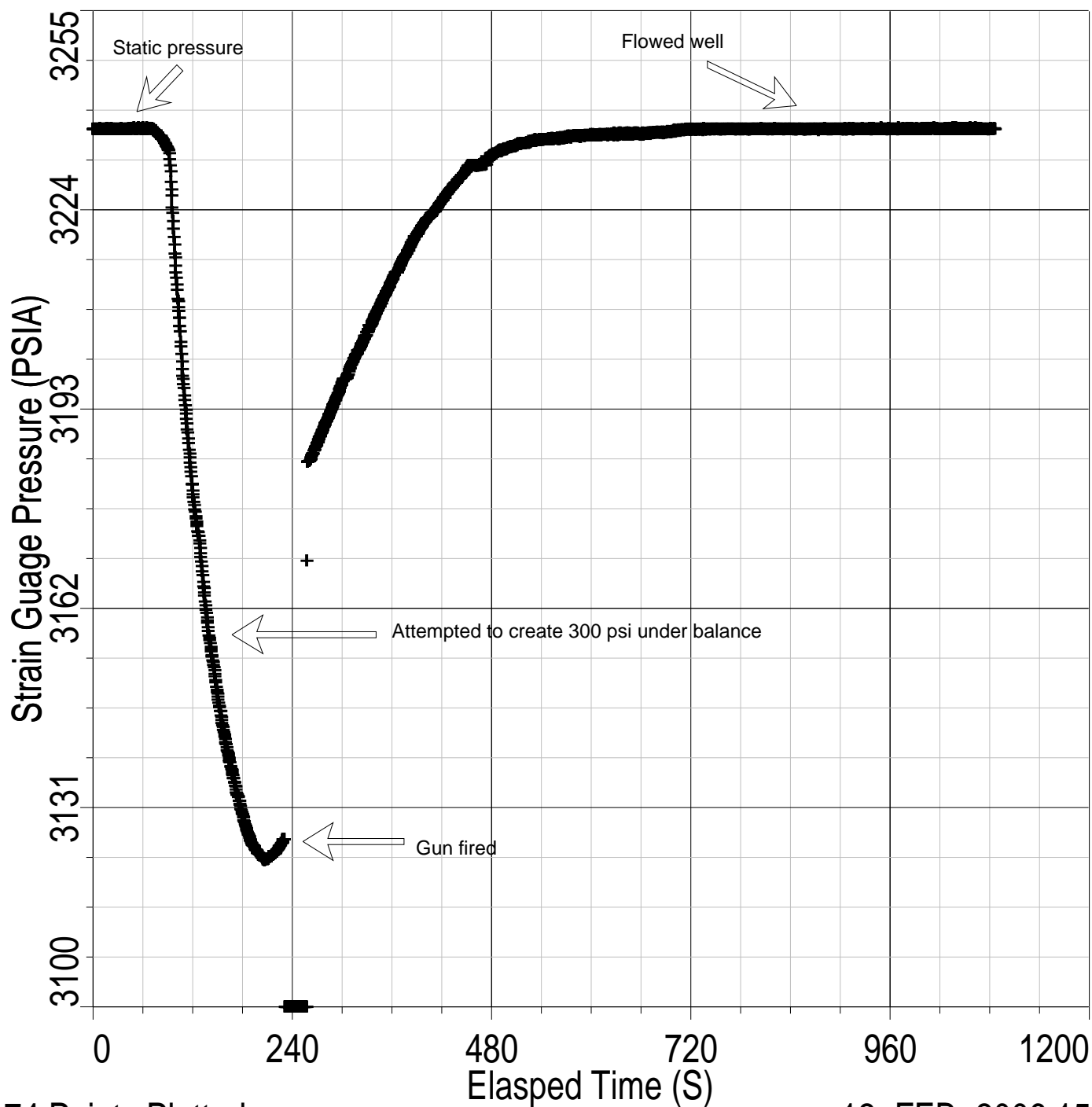
Input DLIS Files						
DEFAULT	PSP_044LUP	FN:42	PRODUCER	15-Feb-2006 15:45	2733.6 M	2631.5 M

Schlumberger

2 1/8" Phased Enerjet Station Logs

MAXIS Field Log

Index: 11491.0 – 17010.4 M



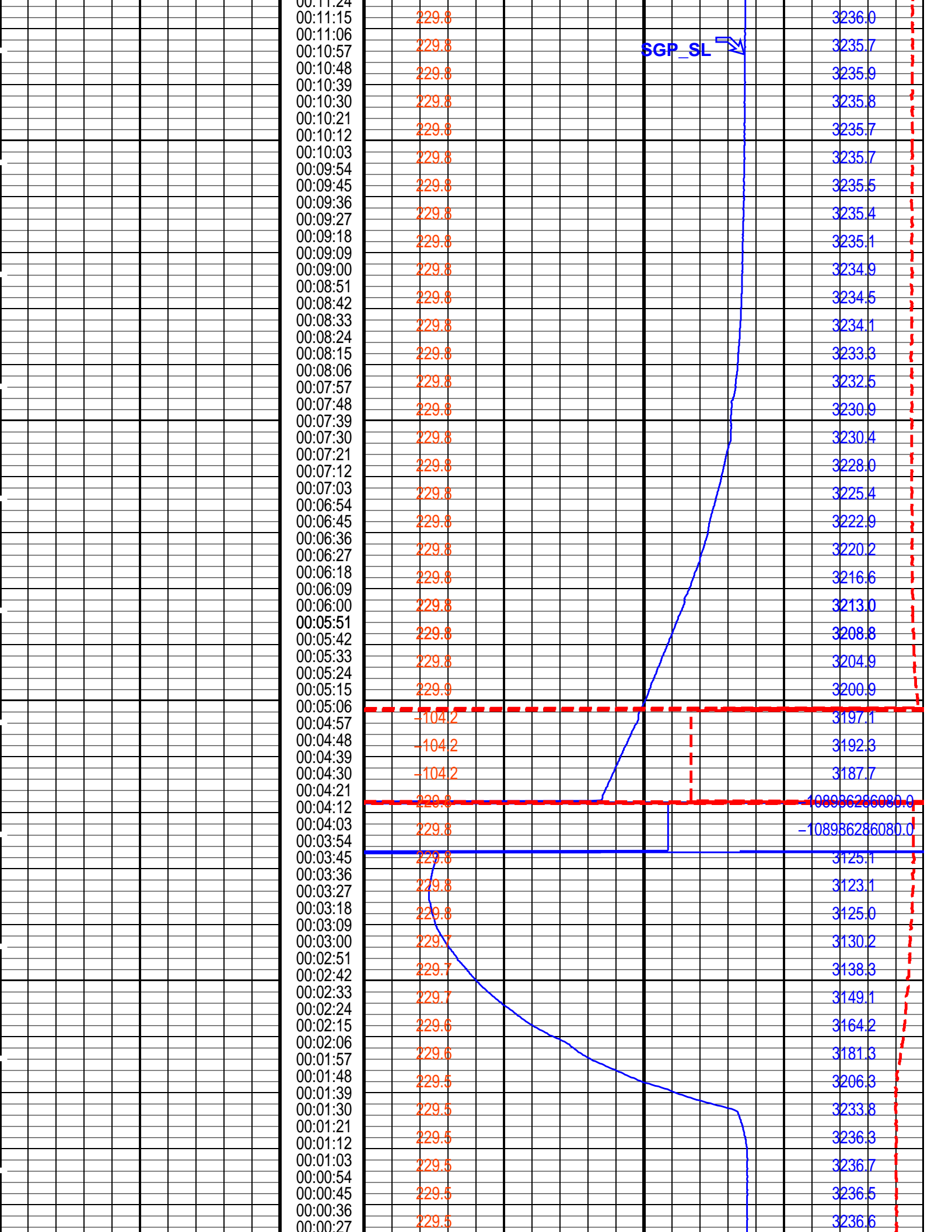
Output DLIS Files

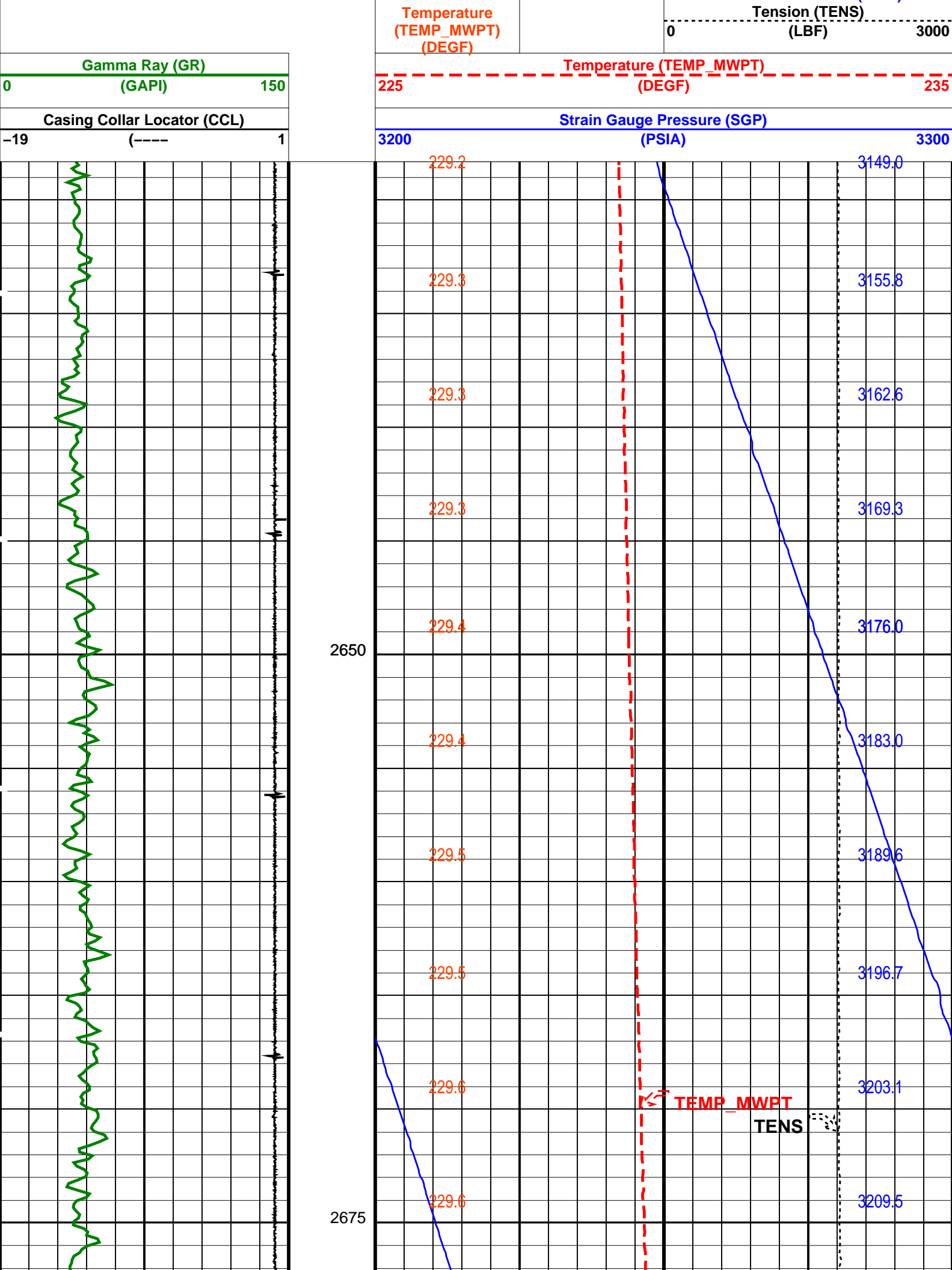
DEFAULT	PERFO_020PTP	FN:19	PRODUCER	12-Feb-2006 15:54	2694.5 M	2.8 M
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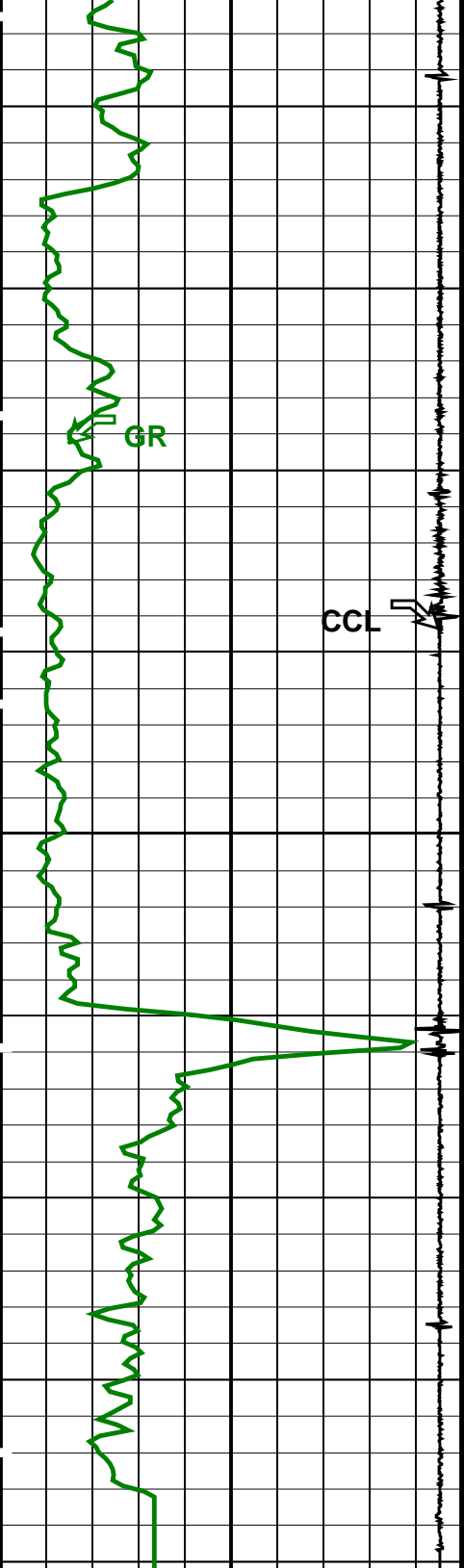
MCM

PIP SUMMARY

										Temperature (TEMP_MWPT_SL)																			
										220										230									
										Temperature (TEMP_MWPT_SL) (DEGF)										Pressure (SGP_SL) (PSIA)									
										Elapsed Time (ETIM) (S)										Strain Gauge Pressure (SGP_SL)									
3100																				3300									
										229.8										3236.6									
										229.8										3236.6									
										229.8										3236.6									
										229.8										3236.6									
										229.8										3236.7									
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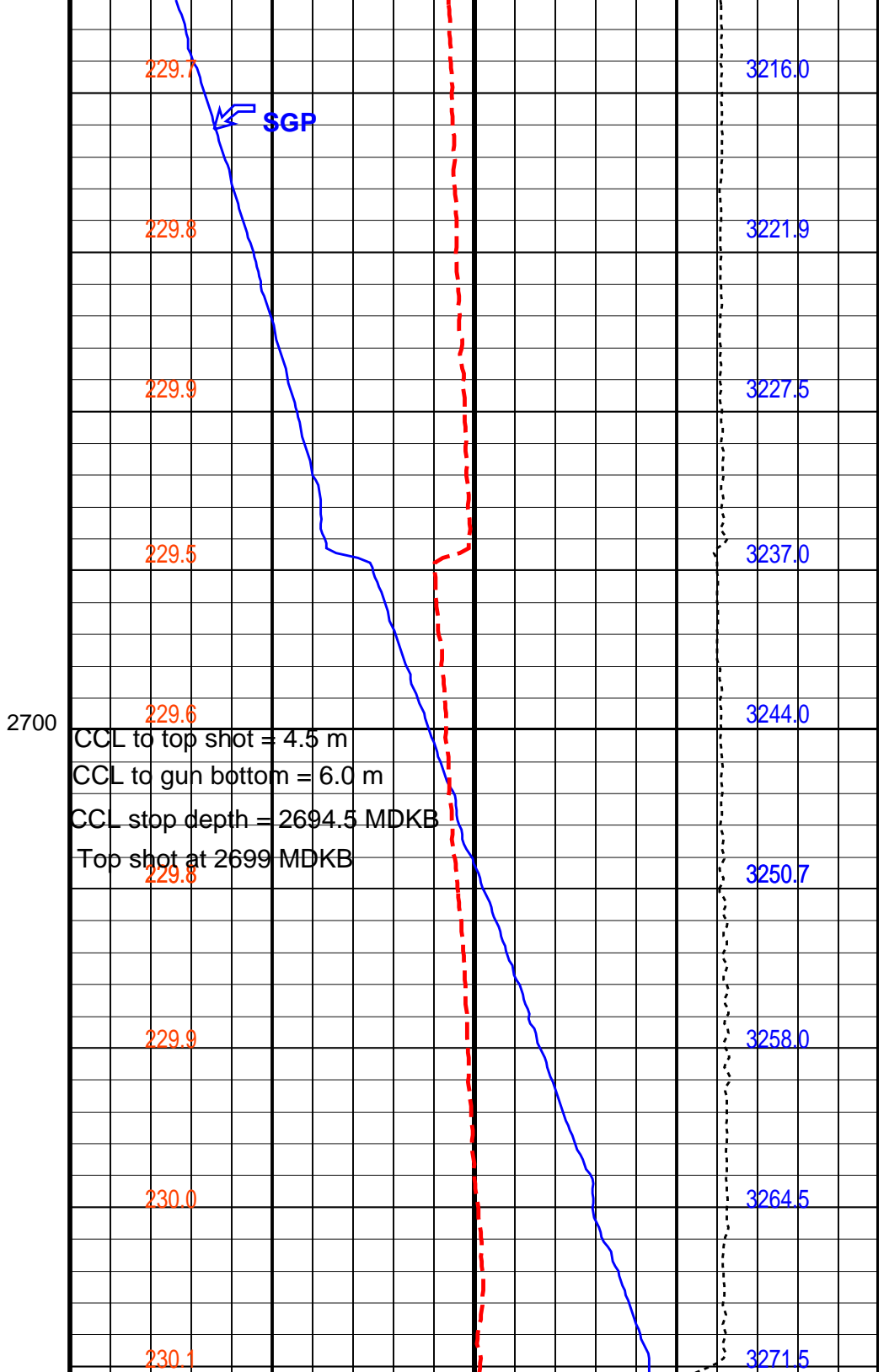






Casing Collar Locator (CCL)
-19 (----) 1

Gamma Ray (GR)
(GAPI) 0 150



Strain Gauge Pressure (SGP)
3200 (PSIA) 3300

Temperature (TEMP_MWPT)
(DEGF) 225 235

Temperature
(TEMP_MWPT)
(DEGF)

Tension (TENS)
(LBF) 0 3000

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: 12-Feb-2006 11:27
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OP System Version: 13C0-300			
MCM			
MWP_GUN	13C0-300	MWPT-CA	13C0-300
MWGT-AA	13C0-300		

Output DLIS Files			
DEFAULT	PERFO_013LUP	FN:12	PRODUCER 12-Feb-2006 11:27



2 1/8" Phased Enerjet
Correlation Pass

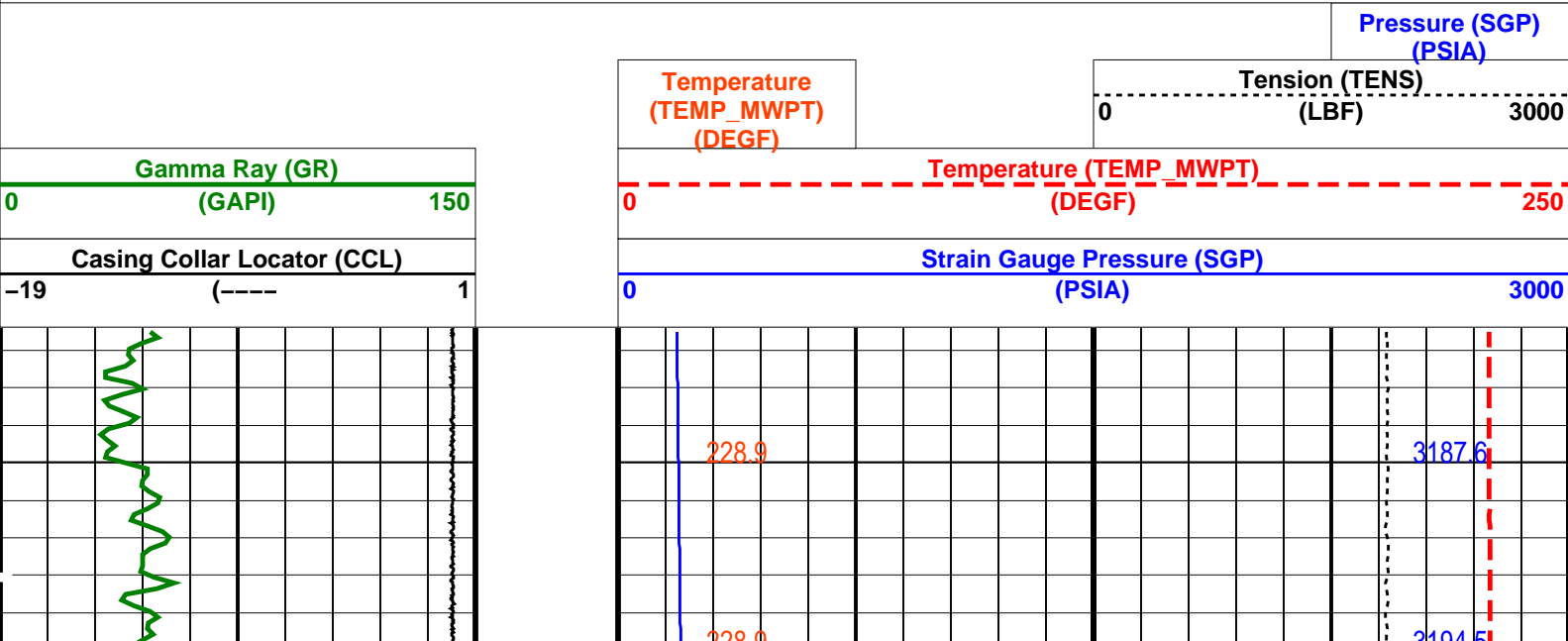
MAXIS Field Log

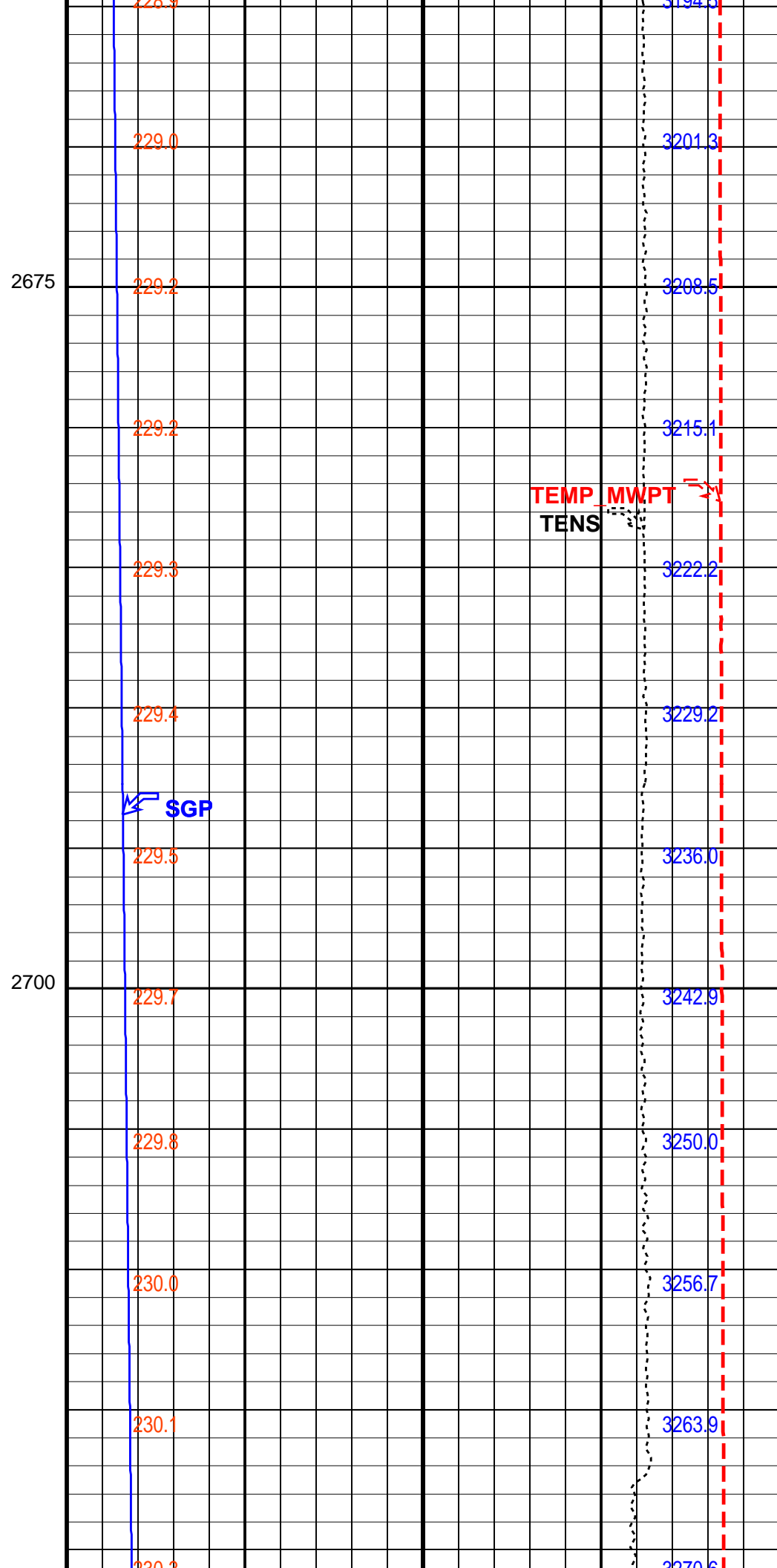
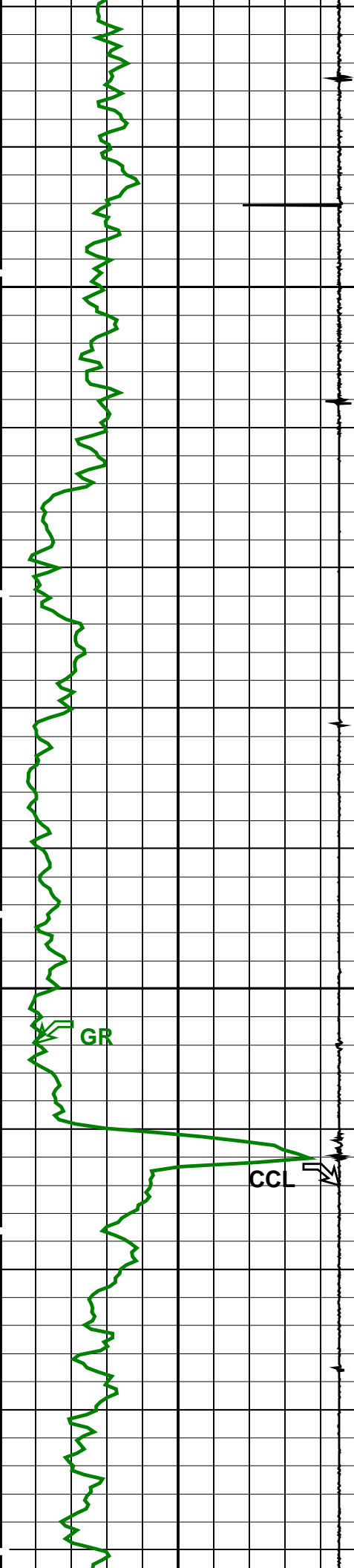
Input DLIS Files					
DEFAULT	PERFO_009LUP	FN:8	PRODUCER	12-Feb-2006 11:09	2729.6 M 2654.0 M
Output DLIS Files					
DEFAULT	PERFO_011PUP	FN:10	PRODUCER	12-Feb-2006 11:20	2731.5 M 2656.3 M

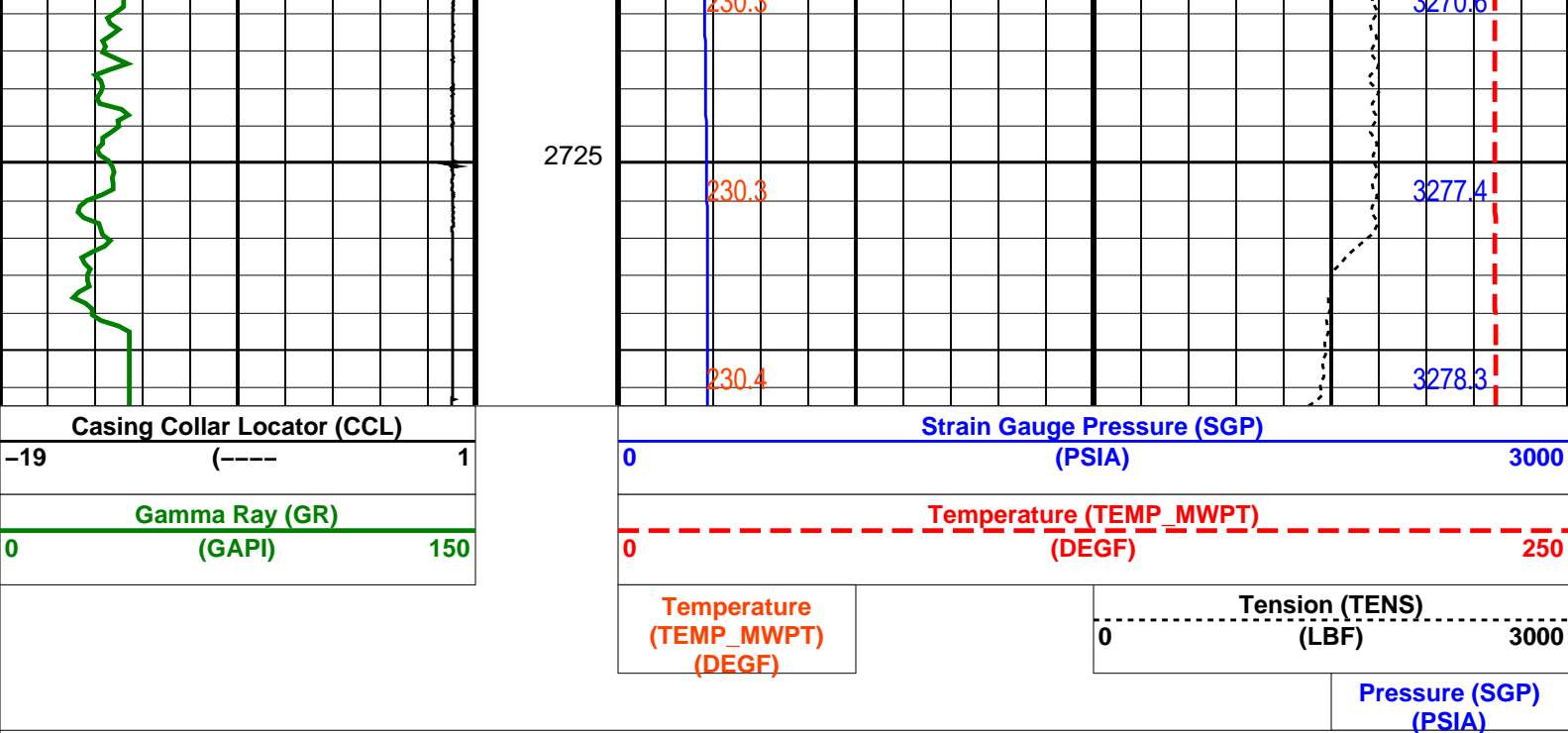
OP System Version: 13C0-300			
MCM			
MWP_GUN	13C0-300	MWPT-CA	13C0-300
MWGT-AA	13C0-300		

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
System and Miscellaneous		
DO	Depth Offset for Playback	1.8 M
PP	Playback Processing	NORMAL

Format: MWP Vertical Scale: 1:200 Graphics File Created: 12-Feb-2006 11:20

OP System Version: 13C0-300			
MCM			
MWP_GUN	13C0-300	MWPT-CA	13C0-300
MWGT-AA	13C0-300		

Input DLIS Files						
DEFAULT	PERFO_009LUP	FN:8	PRODUCER	12-Feb-2006 11:09	2729.6 M	2654.0 M
Output DLIS Files						
DEFAULT	PERFO_011PUP	FN:10	PRODUCER	12-Feb-2006 11:20		

Company: **Esso Australia Ltd.**

Well: **FLA A-26**

Field: **Flounder**

Rig: **Prod 4**

Country: **Australia**

Schlumberger

2 1/8" Enerjet Gun MWPT
Perforation Record
MPBT 5" Plug Setting Record