



Company: Esso Australia Ltd.

Well: FLA A_17a
Field: Flounder
Rig: Prod 4/ Crane

Country: Australia

**2 1/8" Phased Enerjet
 MWPT Gun
 Perforating Record**

Rig: Prod 4/ Crane
Field: Flounder
Location: Gippsland Basin
Well: FLA A_17a
Company: Esso Australia Ltd.

LOCATION	
Gippsland Basin Bass Strait	Elev.: K.B. 33 m G.L. -94 m D.F. 33 m
Permanent Datum: _____	Mean Sea Level _____
Log Measured From: _____	Kelly Bushing _____
Drilling Measured From: _____	Kelly Bushing _____
State: Victoria	Max. Well Deviation 49 deg
Longitude 148° 06' 15.1" E	Latitude 38° 18' 45.24" S
	Elev.: 0.0 m _____
	33.0 m above Perm. Datum

Logging Date	27-Feb-2006
Run Number	1
Depth Driller	3660 m
Schlumberger Depth	3245.1 m Not tagged
Bottom Log Interval	3239.5 m
Top Log Interval	3237.5 m
Casing Fluid Type	Production Fluids
Salinity	
Density	
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	8.500 in
From	11.75 m
To	3660 m
Casing/Tubing Size	7.625 in
Weight	26.4 lbm/ft
Grade	N-80
From	11.75 m
To	2900 m
Maximum Recorded Temperatures	234 degF
Logger On Bottom	27-Feb-2006
Unit Number	1
Location	AUSL
Recorded By	Paul Tarrant & Owen Darby
Witnessed By	Greg Rimmer

PVT DATA			
Oil Density		Run 1	Run 2
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	49 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			
Location			
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 25-FEB-2006 9:42:23

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: 5002.07 M
Calibrator Serial Number: 1009	Calibrator Serial Number: 1174	Conveyance Method: Wireline
Calibration Cable Type: 2-32ZT	Calibration Gain: 1.38	Rig Type: Offshore_Fixed
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 composite solar log
Reference Log Run Number:	Unknown
Reference Log Date:	17-Mar-2005

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

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OTHER SERVICES1
OS1: 4 1/2" MPBT Plug
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
Log correlated to Solar log dated 17-Mar-2005, provided by the client.
Well has max deviation of 49 deg at 2946m MDKB
Objective:
RIH with 2.0m of 2 1/8" enerjet gun correlate to solar composite log.
Locate gun at interval 3237.5m MDKB to 3239.5m MDKB and attempt to
create a 300psi underbalance. Whilst maintaining the guns at the desired depth
obtain static pressure and temperature. Perforate then monitor well's FBHP/FBHT
until stable

until stable.
 Before perforating : FBHP= 2684.8 pisa, FBHT= 233.3 DegF
 After perforating : FBHP= 3250 pisa, FBHT= 233.7 DegC
 CCL to top shot = 3.5m
 CCL to gun bottom = 6.6m
 CCL stop depth = 3234.0m
 API Data: 2 1/8" Power Spiral Enerjet, HMX
 Penetration = 27.2"
 Enerance Hole = 0.32"
 Crew: Jake Annear, John Light and Andrew Hall

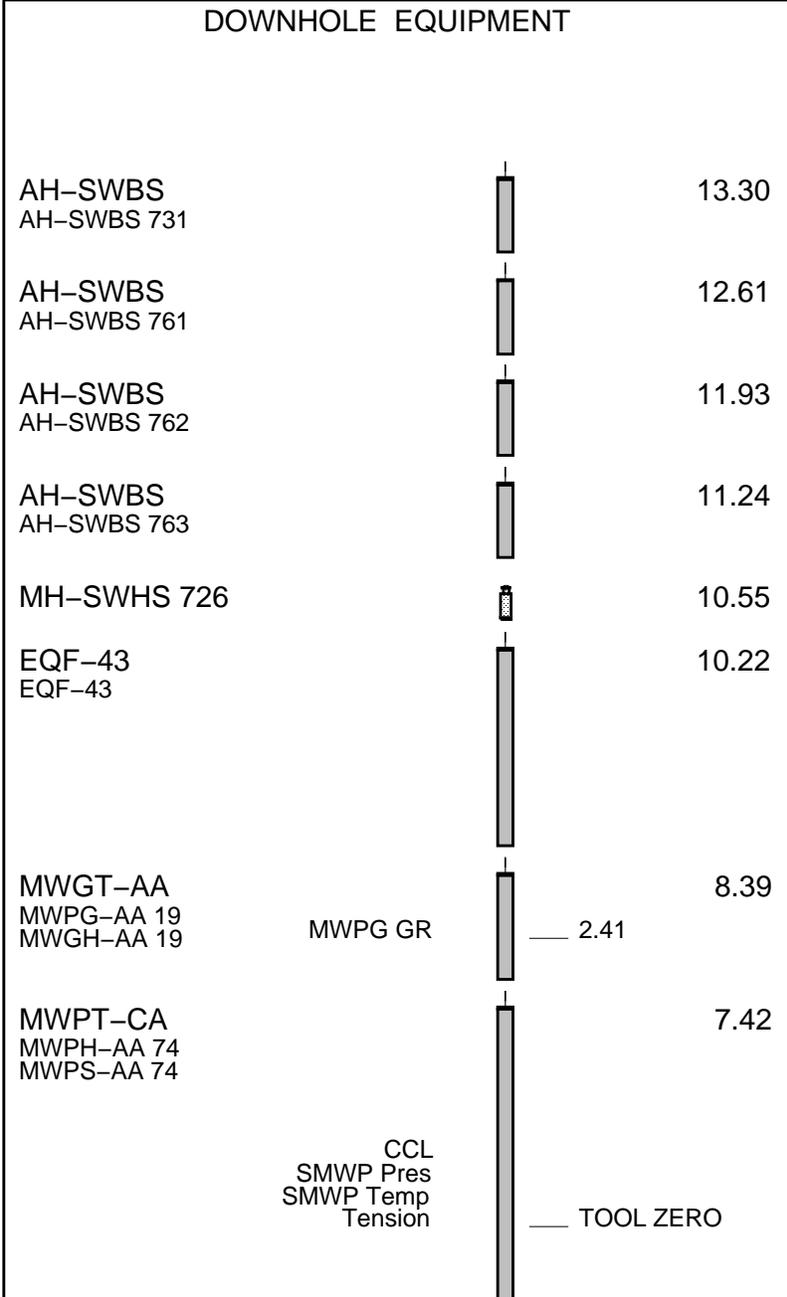
RUN 1			RUN 2		
PROGRAM VERSION:		13C0-300	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
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SURFACE EQUIPMENT

MWPM-AA



(This section is currently blank in the provided image.)

AH-FLEX-JOINT
AH-FLEX-JOINT 42

4.60

AH-SAH-G
AH-SAH-G 1047

4.06

MPD-MB
MPD-MB 2868

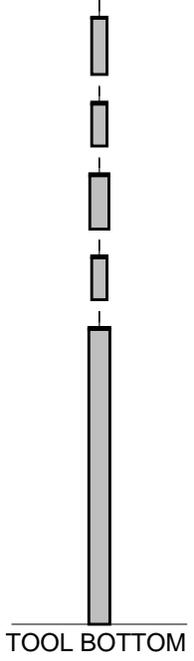
3.66

AH-ESIC-DA
AH-ESIC-DA 606252

3.15

MWP_GUN
GUN

2.74



TOOL BOTTOM

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

Client: Esso Australia Ltd
Well: A_17a
Field: Bass Strait
State: Victoria
Country: Australia

Drawing Date: 25/02/2006

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

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD			MD	OD	
Tubing	3.500		12.4		11.8	11.750		Borehole Segment Casing String
Sub surface safety valve	3.500		453.8		10.750			
Gas Lift Mandrel	3.500		871.5					
Gas Lift Mandrel	3.500		1385.7		1256.3	10.750		Casing Shoe
Gas Lift Mandrel	3.500		1646.3		1256.3	8.500		Borehole Segment
					1256.3	10.750	7.625	Liner Hanger Casing String
						7.625		

Gas Lift Mandrel

3.500

2089.5

Landing Nipple

3.500

2106.8

No Go Nipple
Tubing Bottom

3.500

3.500

2605.0

2610.9

Bridge Plug

4.500

0.000

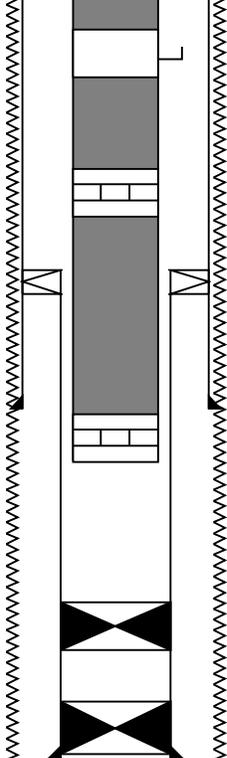
3538.5

Bridge Plug

4.500

0.000

3636.0



2600.8

4.500

4.500

Casing String

Liner Hanger

2600.8

7.625

4.500

Casing Shoe

2900.0

7.625

3656.3

4.500

Casing Shoe



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

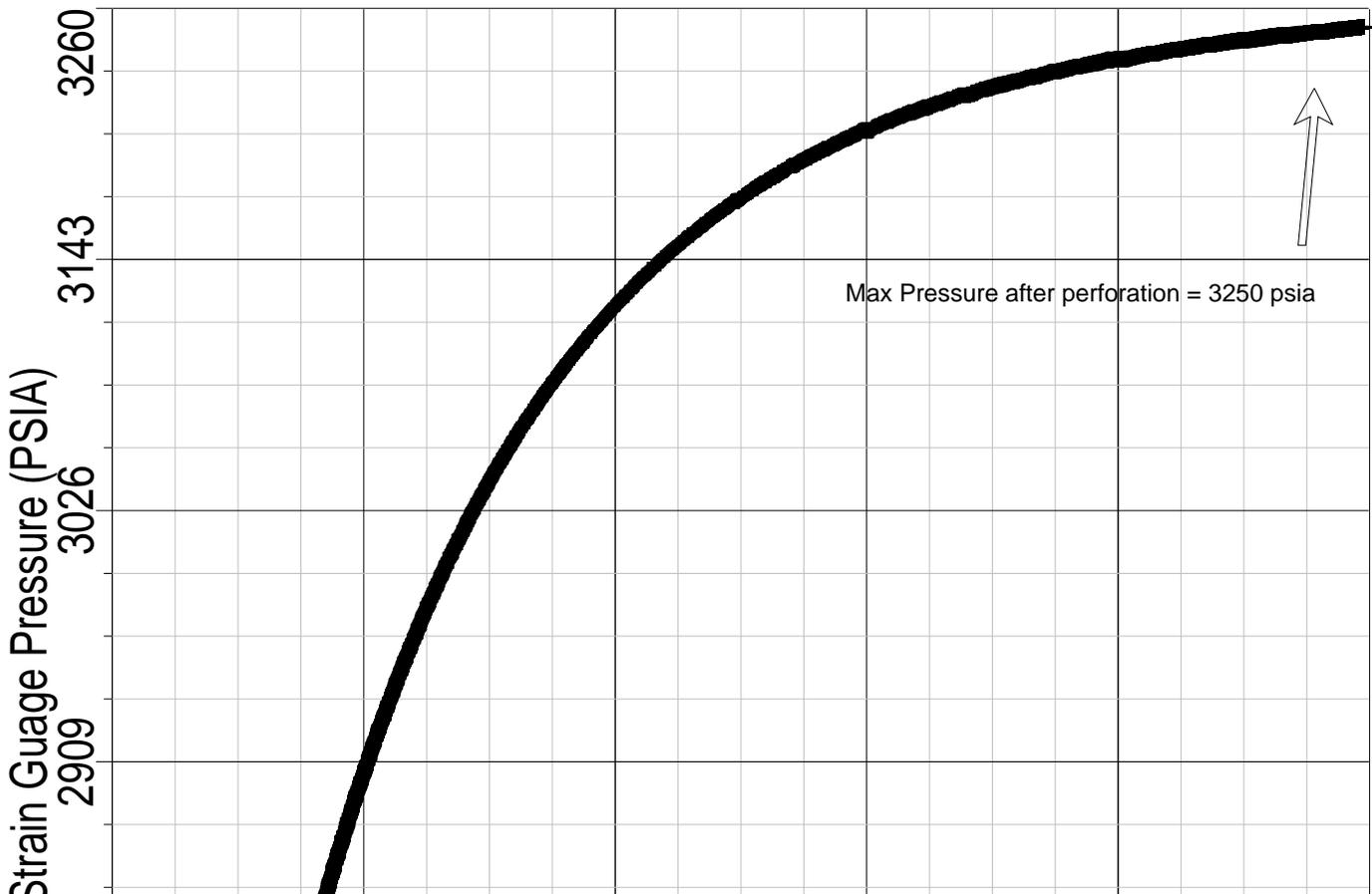
Time	Elapsed Time	Depth (M)	File
Rig Up Started	27-Feb-2006 14:45		
Rig up for MWPT			
Log Pass (up)	27-Feb-2006 17:16	000:43	3245.1 - 3200.7 PERFO_083LUP
Shooting pass			
Station Log	27-Feb-2006 17:21	000:34	3234.0 - 5.2 PERFO_085LTP
MWPT station log			
Rig Down Completed	27-Feb-2006 19:00		
Rig down for MWPT			

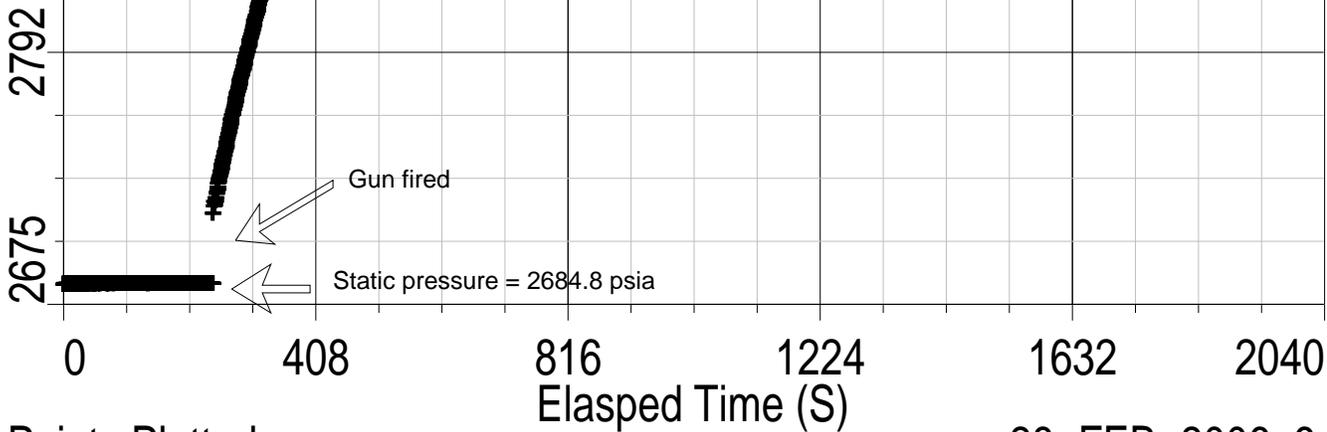
PERFO2 MWPT Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
GUN1	Used	3234.0	3234.0	Mon Feb 27 17:25:01 2006

2 1/8" Phased Enerjet Station Logs

Index: 18338.8 – 28648.7 M





4060 Points Plotted

28-FEB-2006 6:31

Company: Esso Australia Ltd. Well: FLA A_17a

Output DLIS Files

DEFAULT PERFO_085LTP FN:83 PRODUCER 27-Feb-2006 17:21 3234.0 M 5.2 M

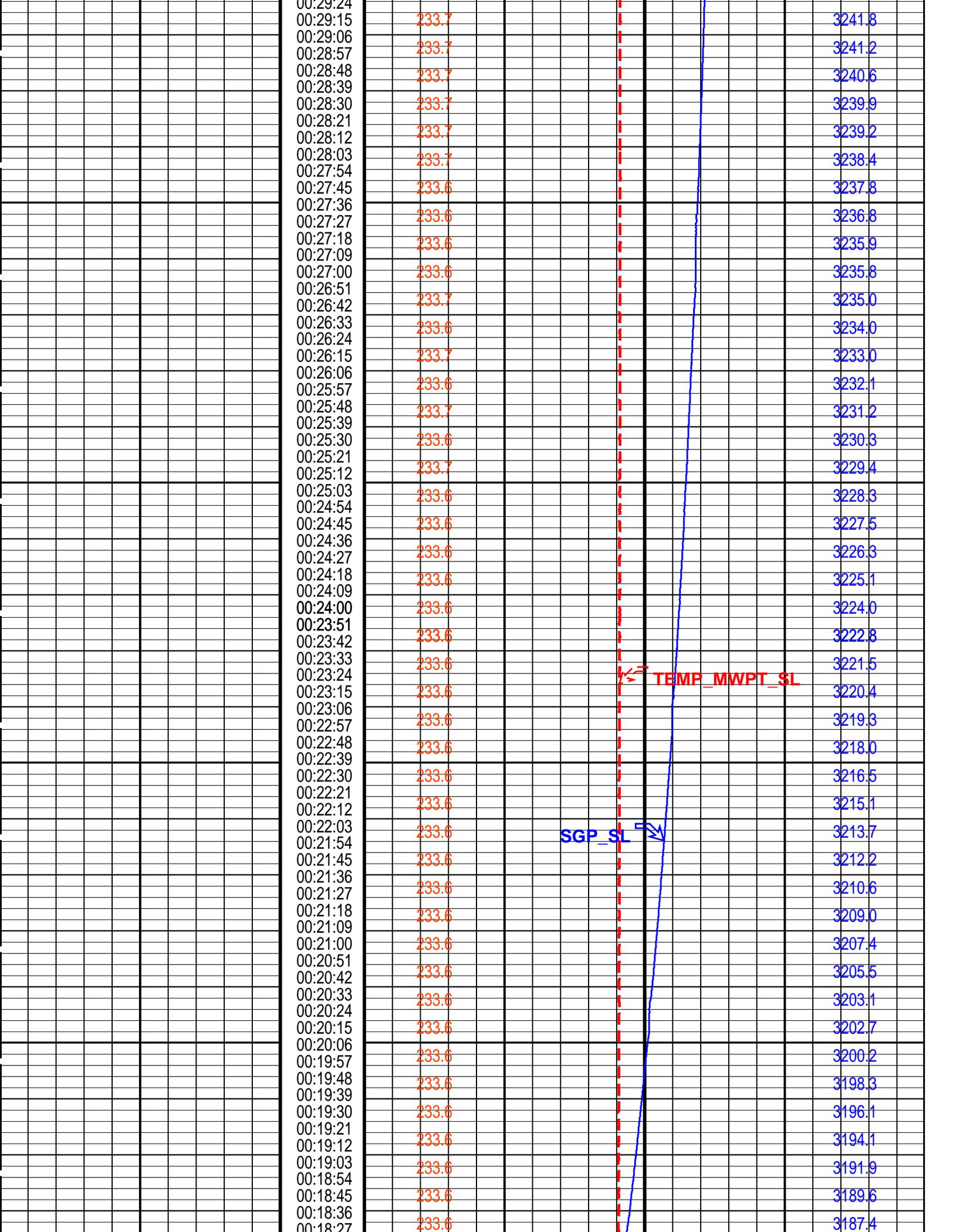
OP System Version: 13C0-300
MCM

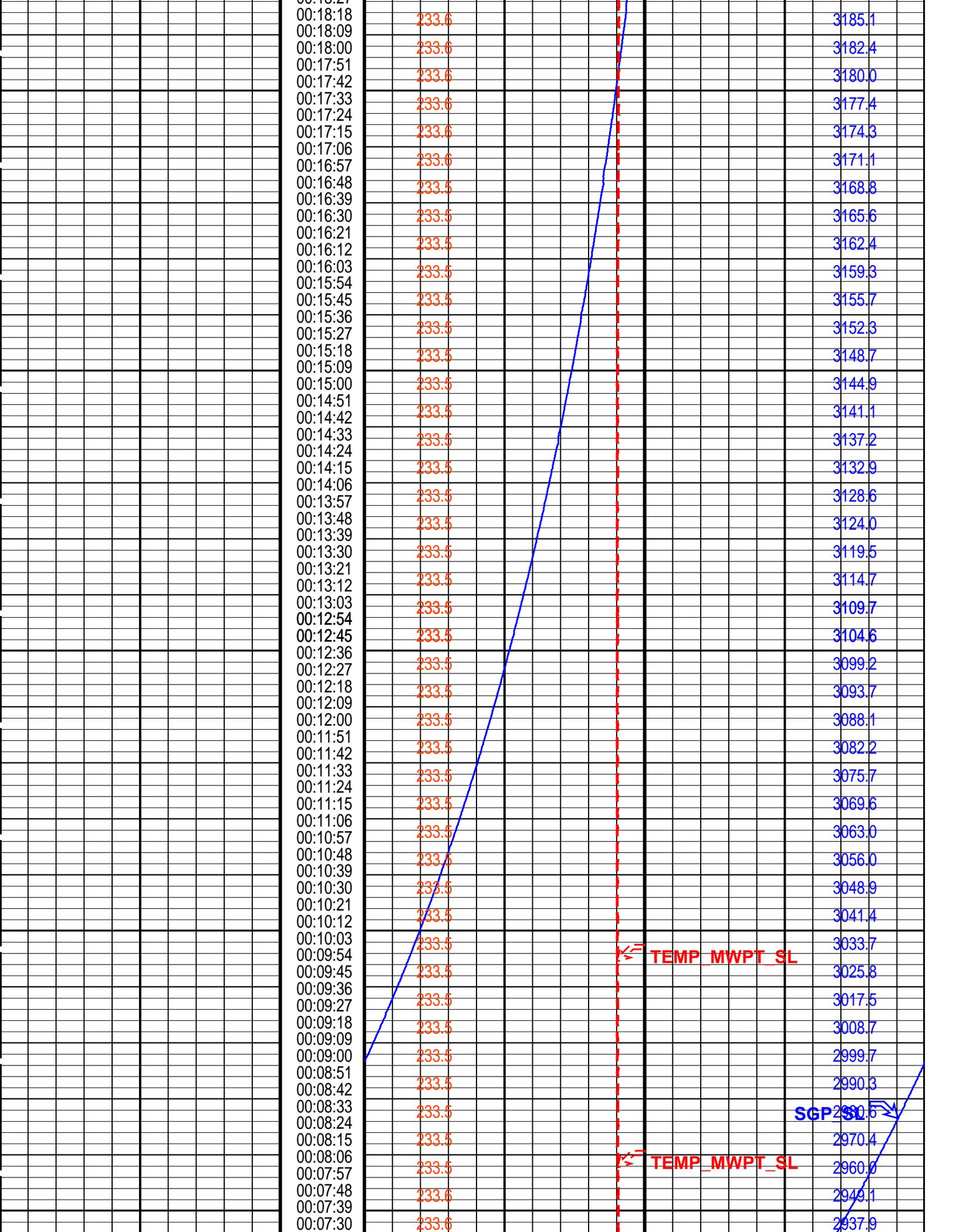
MWP_GUN 13C0-300 MWPT-CA 13C0-300
MWGT-AA 13C0-300

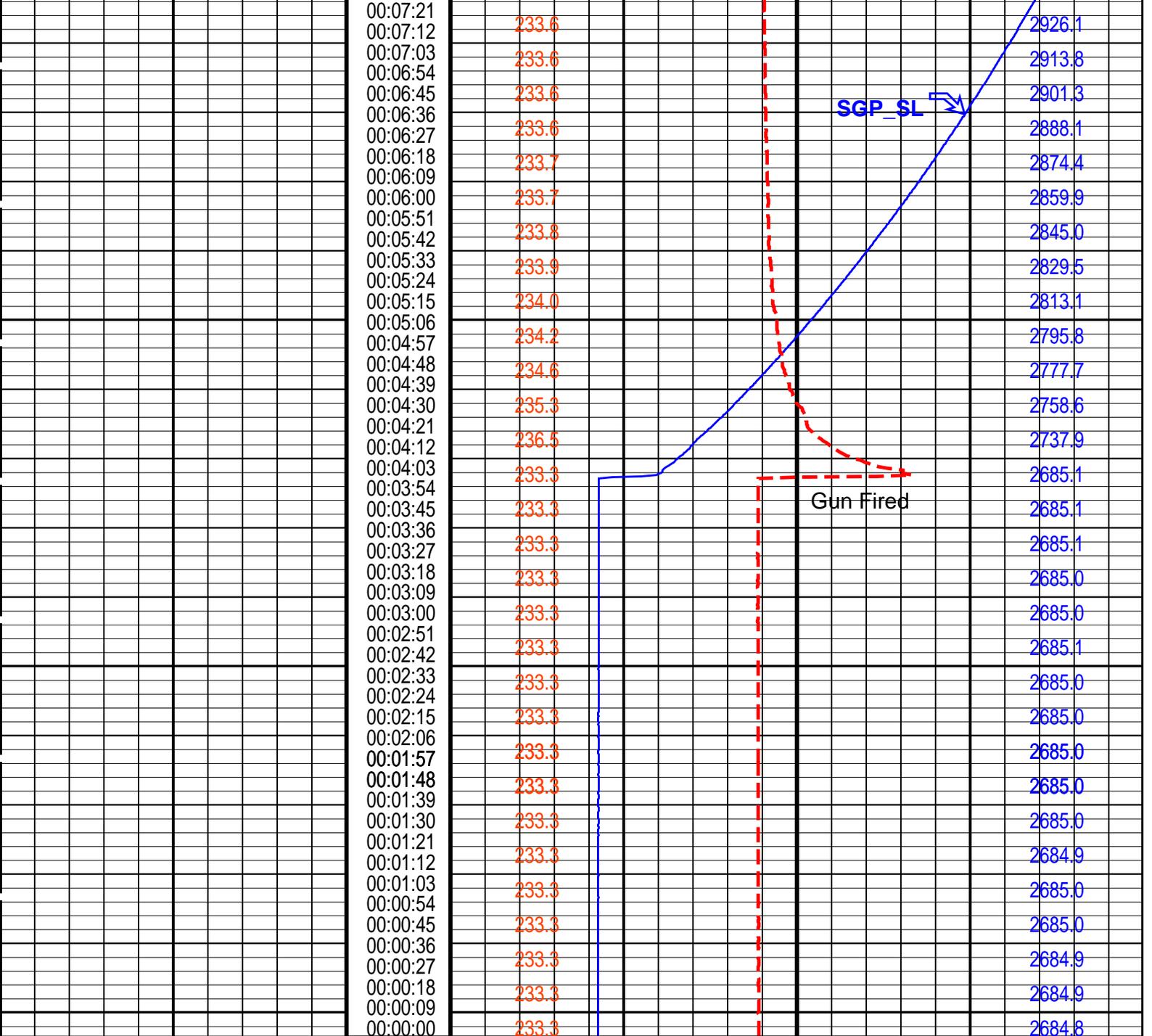
PIP SUMMARY

Time Mark Every 60 S

Elapsed Time (ETIM) (S)	Temperature (TEMP_MWPT_SL) (DEGF)		Strain Gauge Pressure (SGP_SL) (PSIA)
	Temperature (TEMP_MWPT_SL) (DEGF)	Pressure (SGP_SL) (PSIA)	
		220	250
00:33:45	233.7		3250.8
00:33:36	233.7		3250.6
00:33:27	233.7		3250.1
00:33:18	233.7		3249.7
00:33:09	233.7		3249.2
00:33:00	233.7		3248.8
00:32:51	233.6		3248.3
00:32:42	233.7		3247.9
00:32:33	233.7		3247.3
00:32:24	233.7		3246.8
00:32:15	233.7		3246.4
00:32:06	233.7		3245.7
00:31:57	233.7		3245.4
00:31:48	233.7		3244.6
00:31:39	233.6		3244.2
00:31:30	233.7		3243.7
00:31:21	233.7		3243.0
00:31:12	233.7		3242.5
00:31:03	233.7		
00:30:54	233.6		
00:30:45	233.6		
00:30:36	233.6		
00:30:27	233.7		
00:30:18	233.7		
00:30:09	233.7		
00:30:00	233.6		
00:29:51	233.6		
00:29:42	233.6		
00:29:33	233.6		
00:29:24	233.6		







Elapsed Time (ETIM) (S)	Strain Gauge Pressure (SGP_SL) (PSIA)		2600	3000
	Temperature (TEMP_MWPT_SL) (DEGF)	Pressure (SGP_SL) (PSIA)		
	Temperature (TEMP_MWPT_SL) (DEGF)		220	250

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

OP System Version: 13C0-300

MCM

MWP_GUN 13C0-300
 MWGT-AA 13C0-300

MWPT-CA 13C0-300

Output DLIS Files

DEFAULT PERFO_085LTP FN:83 PRODUCER 27-Feb-2006 17:21



2 1/8" Phased Enerjet Shooting Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_083LUP FN:81 PRODUCER 27-Feb-2006 17:16 3245.1 M 3200.7 M

OP System Version: 13C0-300

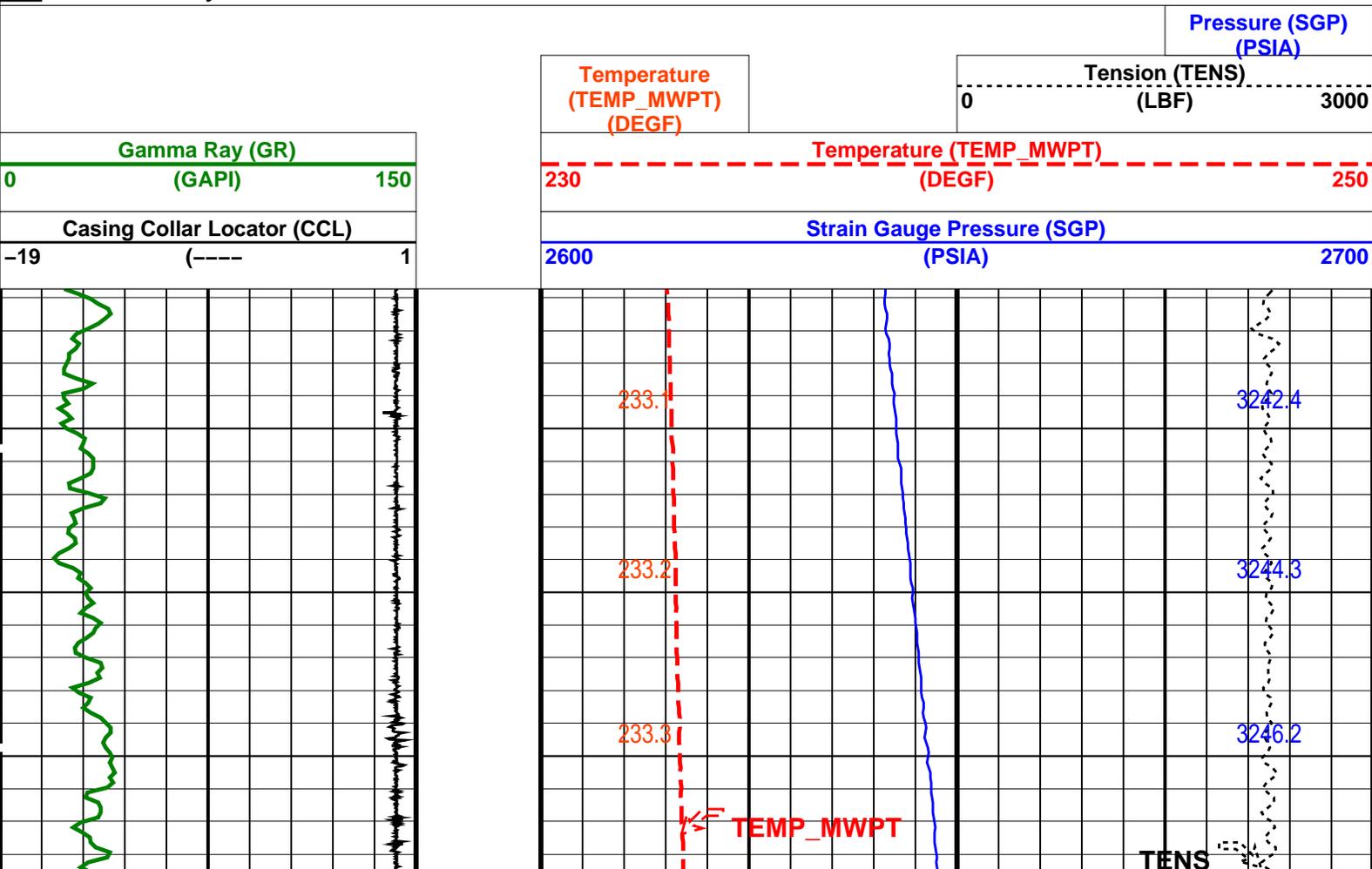
MCM

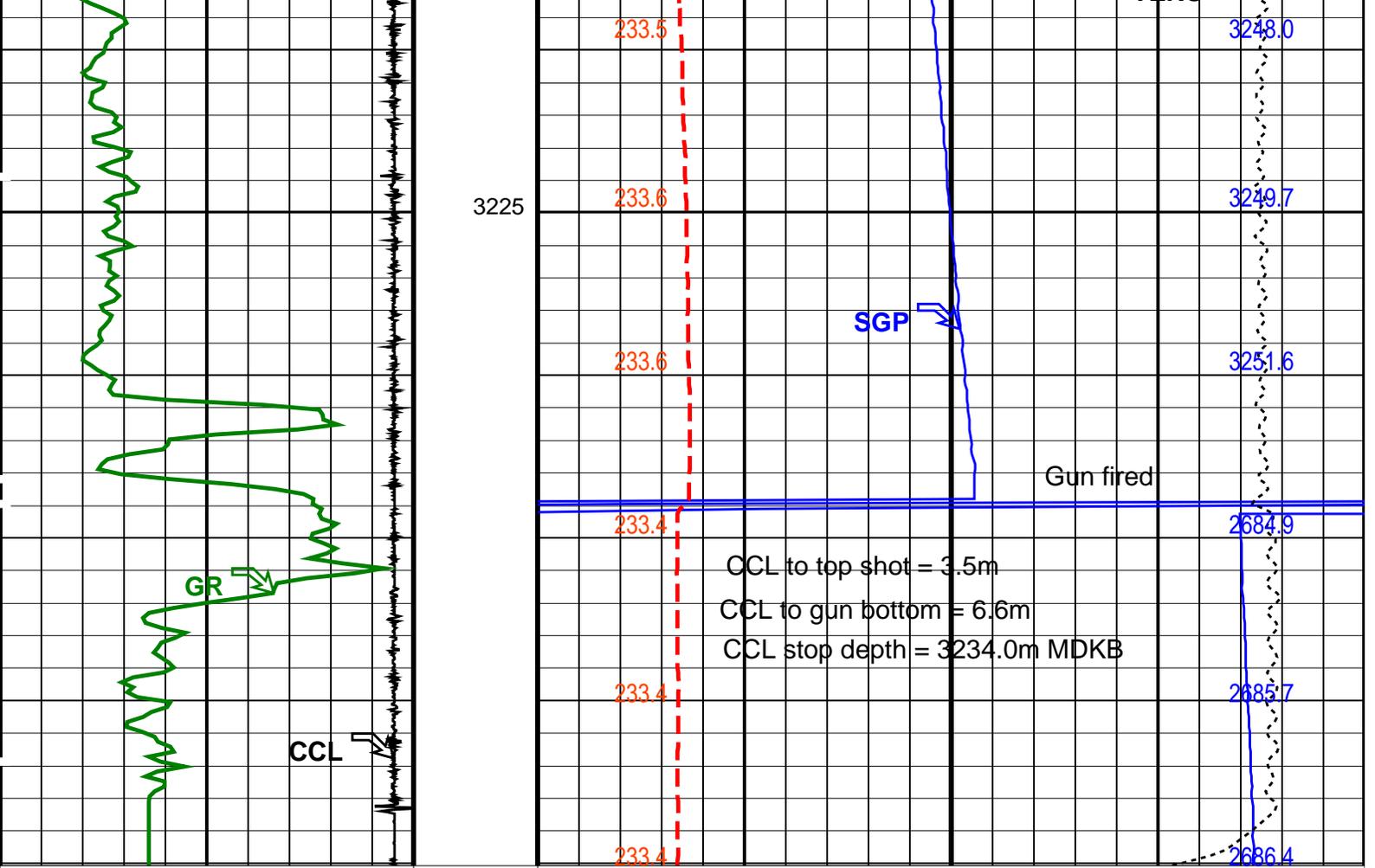
MWP_GUN 13C0-300
 MWGT-AA 13C0-300

MWPT-CA 13C0-300

PIP SUMMARY

Time Mark Every 60 S





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

Strain Gauge Pressure (SGP)		
2600	(PSIA)	2700
Temperature (TEMP_MWPT)		
230	(DEGF)	250
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: 27-Feb-2006 17:16

OP System Version: 13C0-300

MCM

MWP_GUN	13C0-300	MWPT-CA	13C0-300
MWGT-AA	13C0-300		

Output DLIS Files

DEFAULT	PERFO_083LUP	FN:81	PRODUCER	27-Feb-2006 17:16
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Output DLIS Files

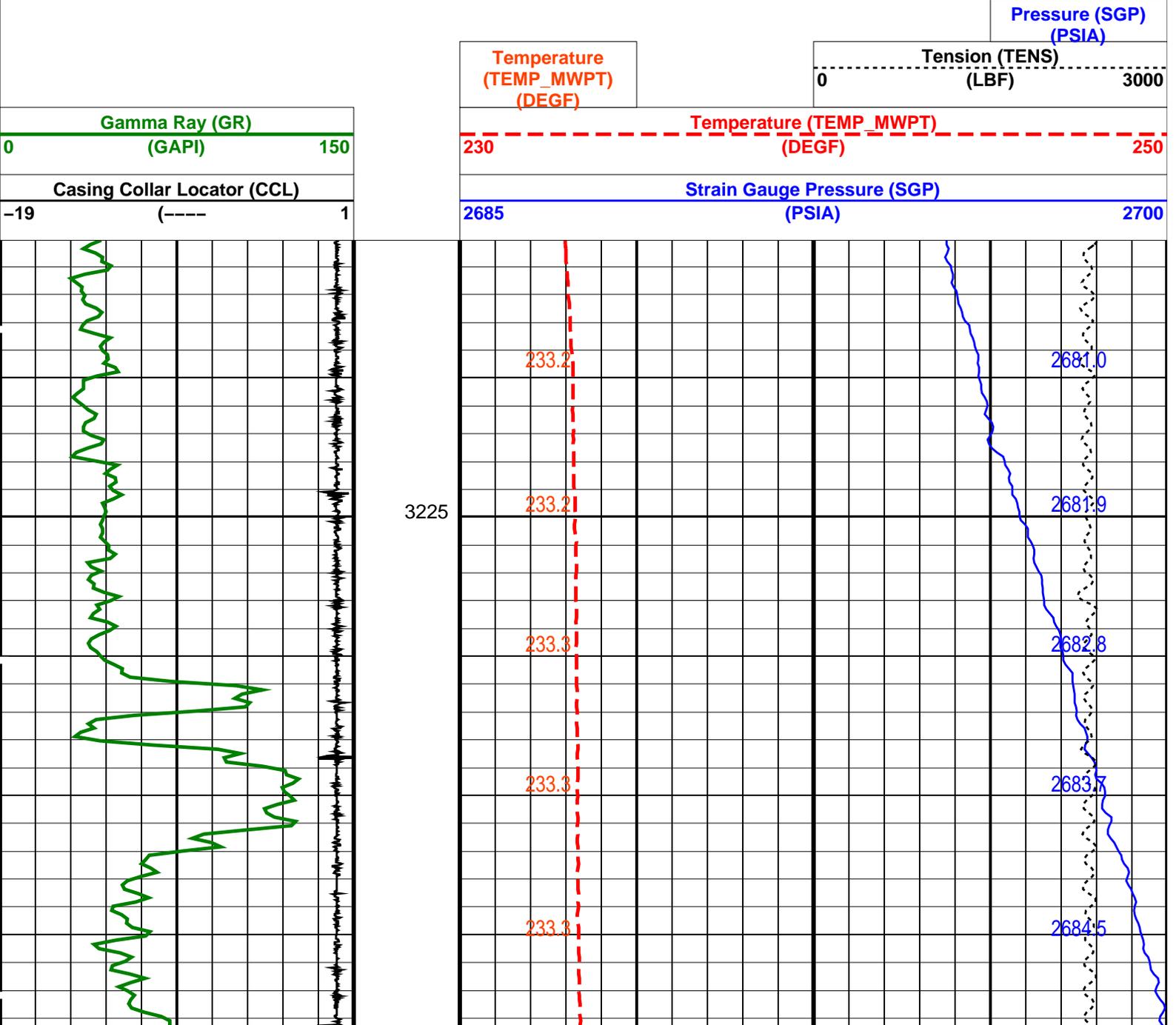
DEFAULT PERFO_082LUP FN:80 PRODUCER 27-Feb-2006 17:11 3245.1 M 3215.0 M

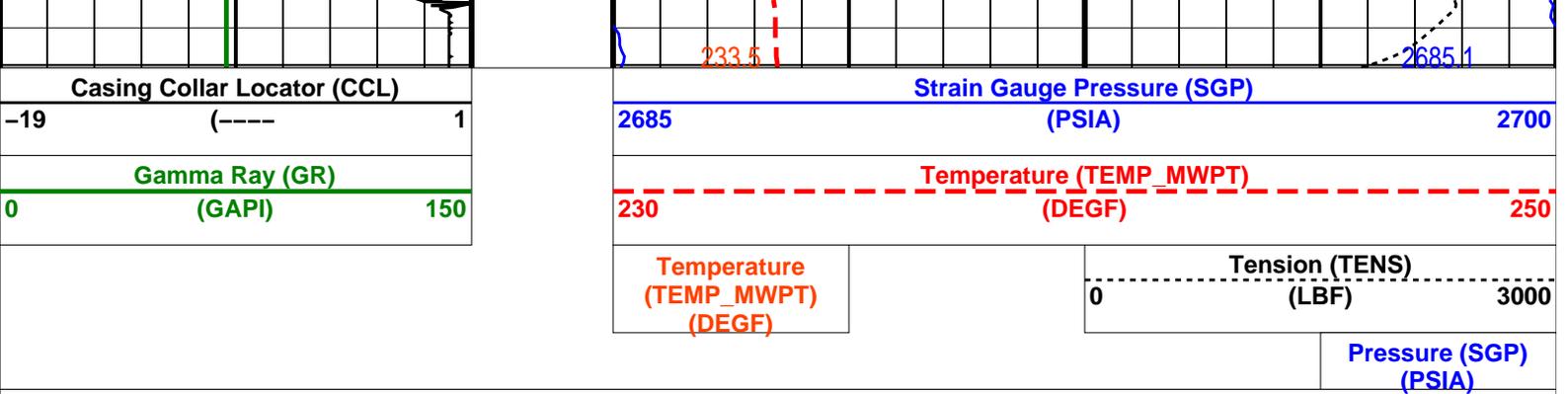
OP System Version: 13C0-300
MCM

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

Format: MWP Vertical Scale: 1:200

Graphics File Created: 27-Feb-2006 17:11

OP System Version: 13C0-300
MCM

MWP_GUN	13C0-300	MWPT-CA	13C0-300
MWGT-AA	13C0-300		

Output DLIS Files

DEFAULT	PERFO_082LUP	FN:80	PRODUCER	27-Feb-2006 17:11
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Company: **Esso Australia Ltd.**

Schlumberger

Well: **FLA A_17a**
 Field: **Flounder**
 Rig: **Prod 4/ Crane**
 Country: **Australia**

2 1/8" Phased Enerjet
 MWPT Gun
 Perforating Record