

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

Prod 4/ Crane

Rig: Field: Location: Well: Company:

Flounder
Gippsland Basin
FLA A_17a
Esso Australia Ltd.

LOCATION

Gippsland Basin
Bass Strait

Elev.: K.B. 33 m
G.L. -94 m
D.F. 33 m

Permanent Datum: _____
Log Measured From: _____
Drilling Measured From: _____

Mean Sea Level _____
Kelly Bushing _____
Kelly Bushing _____

Elev.: 0.0 m _____
33.0 m above Perm. Datum

State: Victoria

Max. Well Deviation
49 deg

Longitude
148° 06' 15.1" E

Latitude
38°18' 45.24"S

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		16:00	
Unit Number		Location	1	AUSL		
Recorded By			Paul Tarrant & Owen Darby			
Witnessed By			Greg Rimmer			

PVT DATA				Run 1	Run 2	Run 3
Oil Density						
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 Serial Number: 797 Calibration Date: 01-May-2005 Calibrator Serial Number: 1009 Calibration Cable Type: 2-32ZT Wheel Correction 1: -3 Wheel Correction 2: 2	Type: CMTD-C Serial Number: 1037 Calibration Date: 15-Feb-2006 Calibrator Serial Number: 1174 Calibration Gain: 1.38 Calibration Offset: 448.00	Type: 2-32ZT Serial Number: 4207 Length: 5002.07 M Conveyance Method: Wireline Rig Type: Offshore_Fixed

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

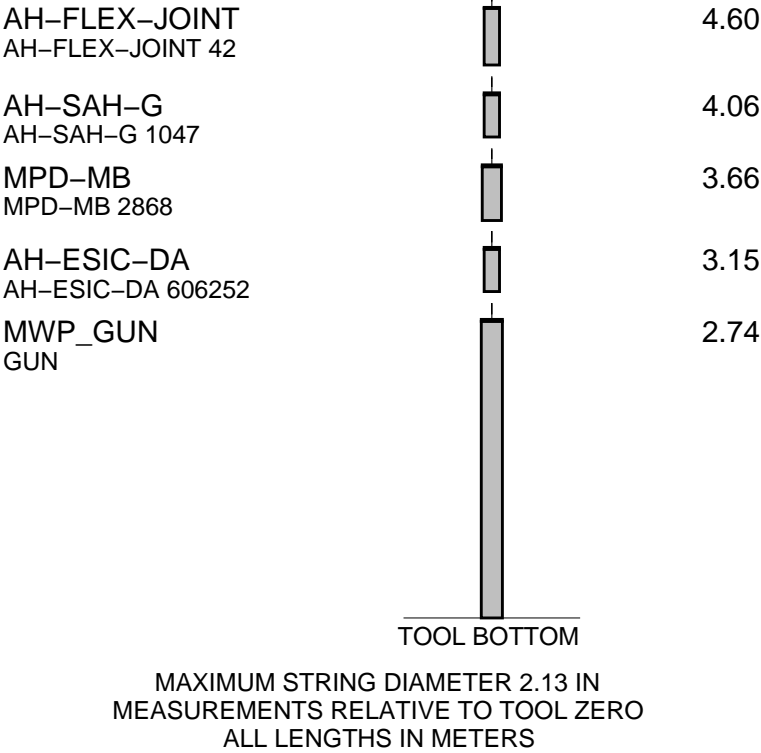
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (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: 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		
SURFACE EQUIPMENT				
MWPM-AA				
DOWNHOLE EQUIPMENT				
AH-SWBS				13.30
AH-SWBS 731				
AH-SWBS				12.61
AH-SWBS 761				
AH-SWBS				11.93
AH-SWBS 762				
AH-SWBS				11.24
AH-SWBS 763				
MH-SWHS 726		10.55		
EQF-43		10.22		
EQF-43				
MWGT-AA		8.39		
MWPG-AA 19				
MWGH-AA 19	MWPG GR	2.41		
MWPT-CA		7.42		
MWPH-AA 74				
MWPS-AA 74				
	CCL SMWP Pres SMWP Temp Tension	TOOL ZERO		



Client: Esso Australia Ltd

Well: A_17a

Field: Bass Strait

State: Victoria

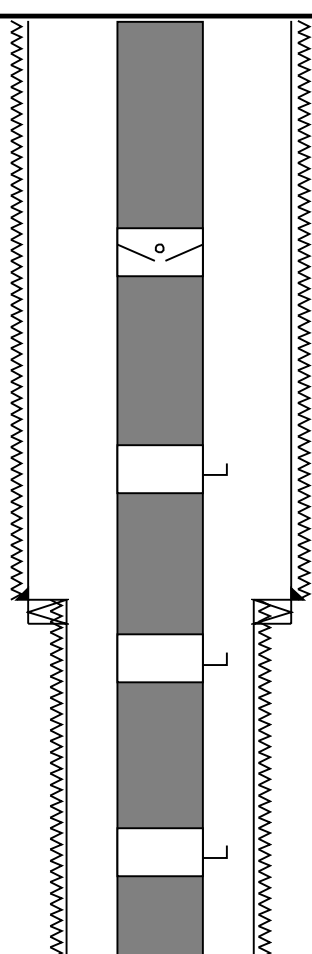
Country: Australia

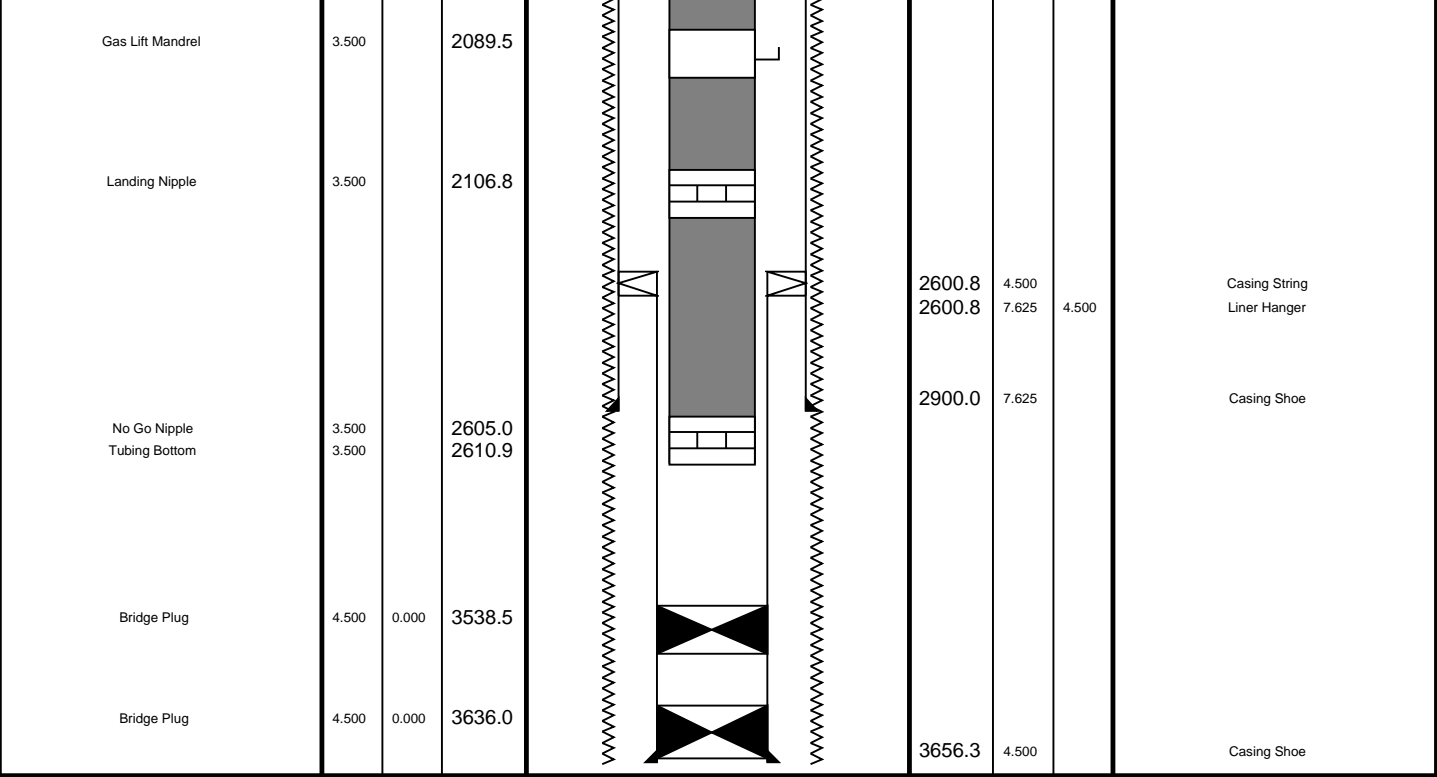
Rig Name: Flounder

Reference Datum: Mean Sea Level

Elevation: 33.0 m

Drawing Date: 25/02/2006

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



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

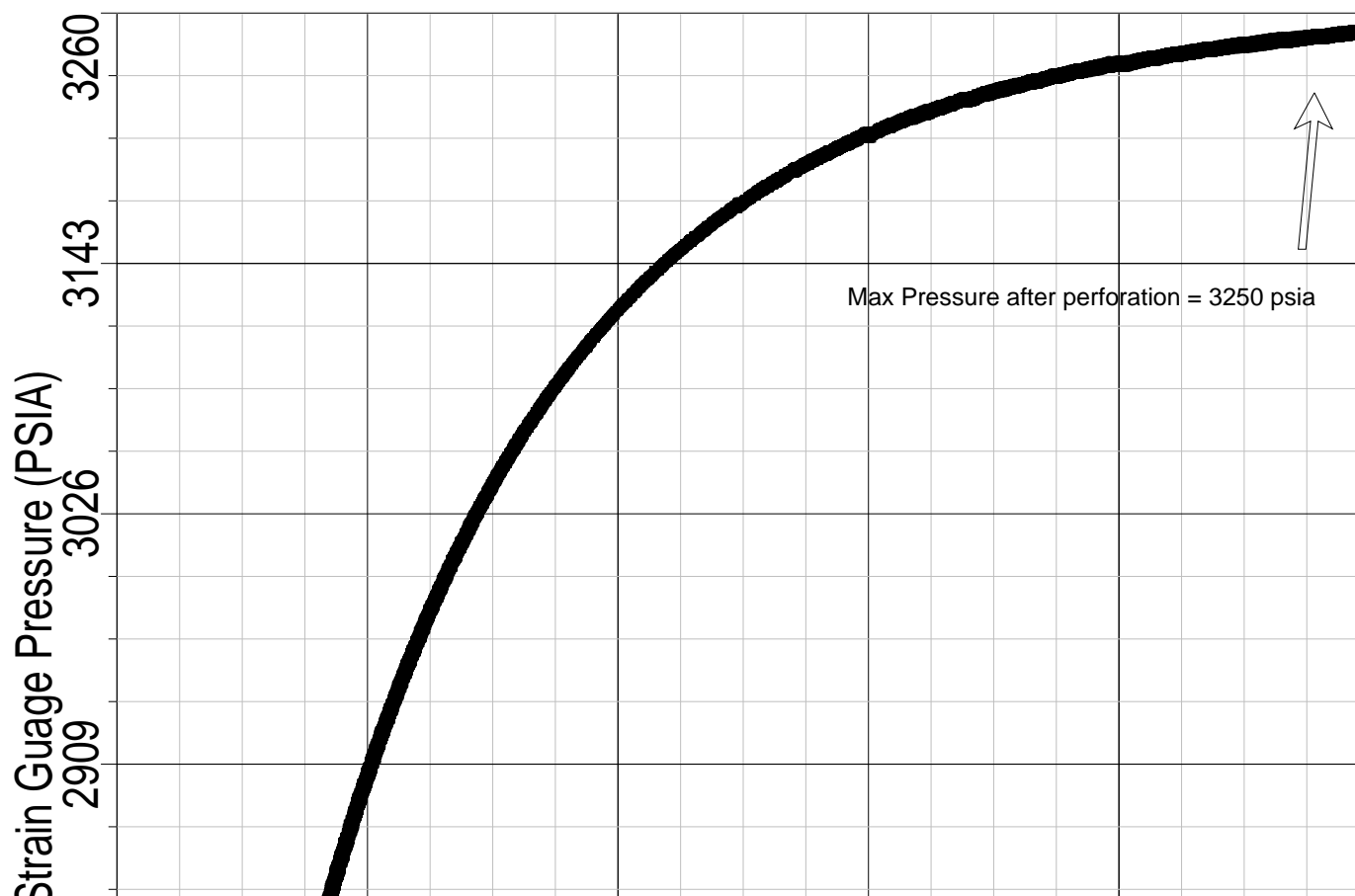
Time	Elapsed Time	Depth (M)	File
Rig Up Started	27-Feb-2006 14:45		
Rig up for MWPT			
Log Pass (up)	27-Feb-2006 17:16	000:43	3245.1 – 3200.7 PERFO_083LUP
Shooting pass			
Station Log	27-Feb-2006 17:21	000:34	3234.0 – 5.2 PERFO_085LTP
MWPT station log			
Rig Down Completed	27-Feb-2006 19:00		
Rig down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

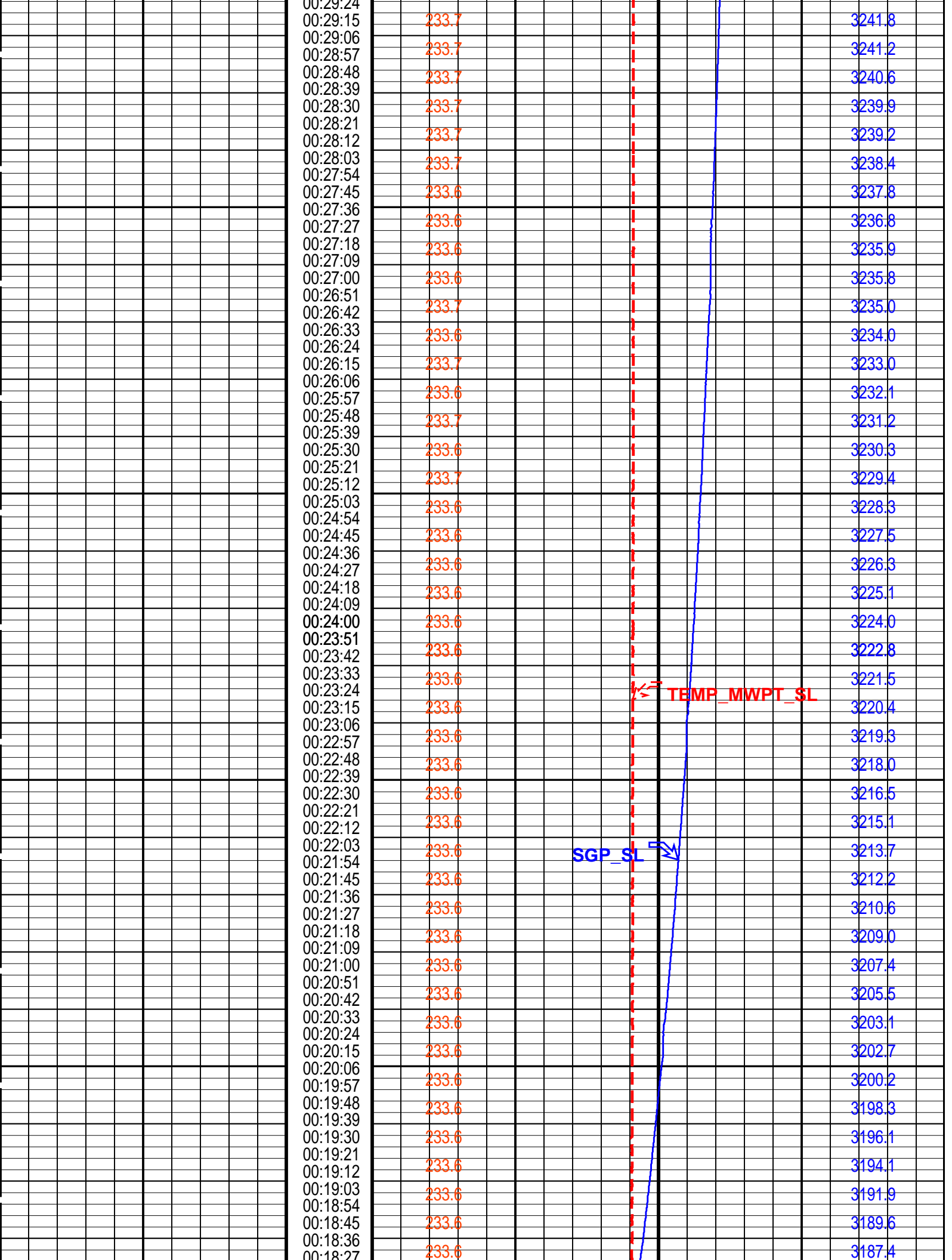
PERFO2 MWPT Operational Summary Listing

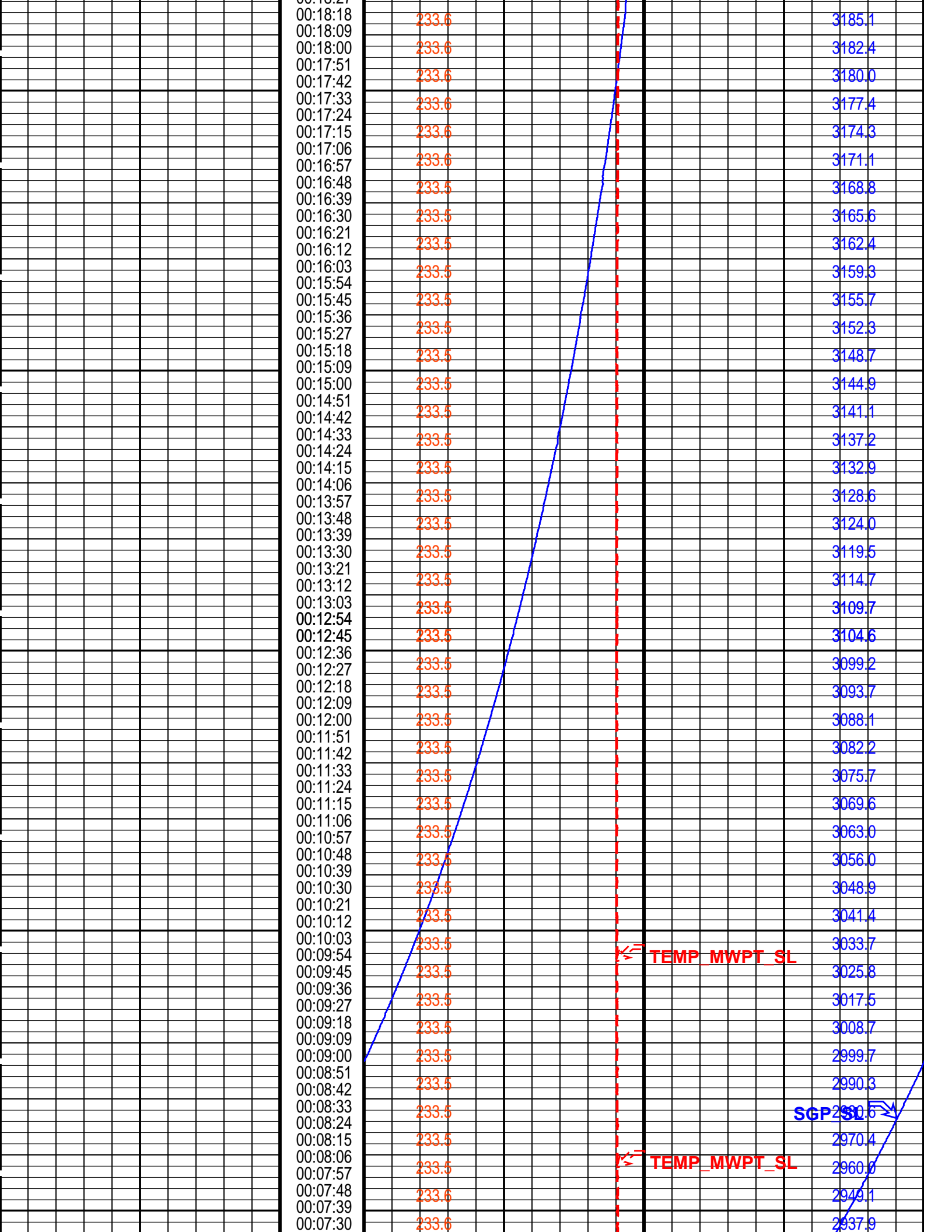
Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
GUN1	Used	3234.0	3234.0	Mon Feb 27 17:25:01 2006

**2 1/8" Phased Enerjet
Station Logs**

Index: 18338.8 – 28648.7 M







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

Schlumberger

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

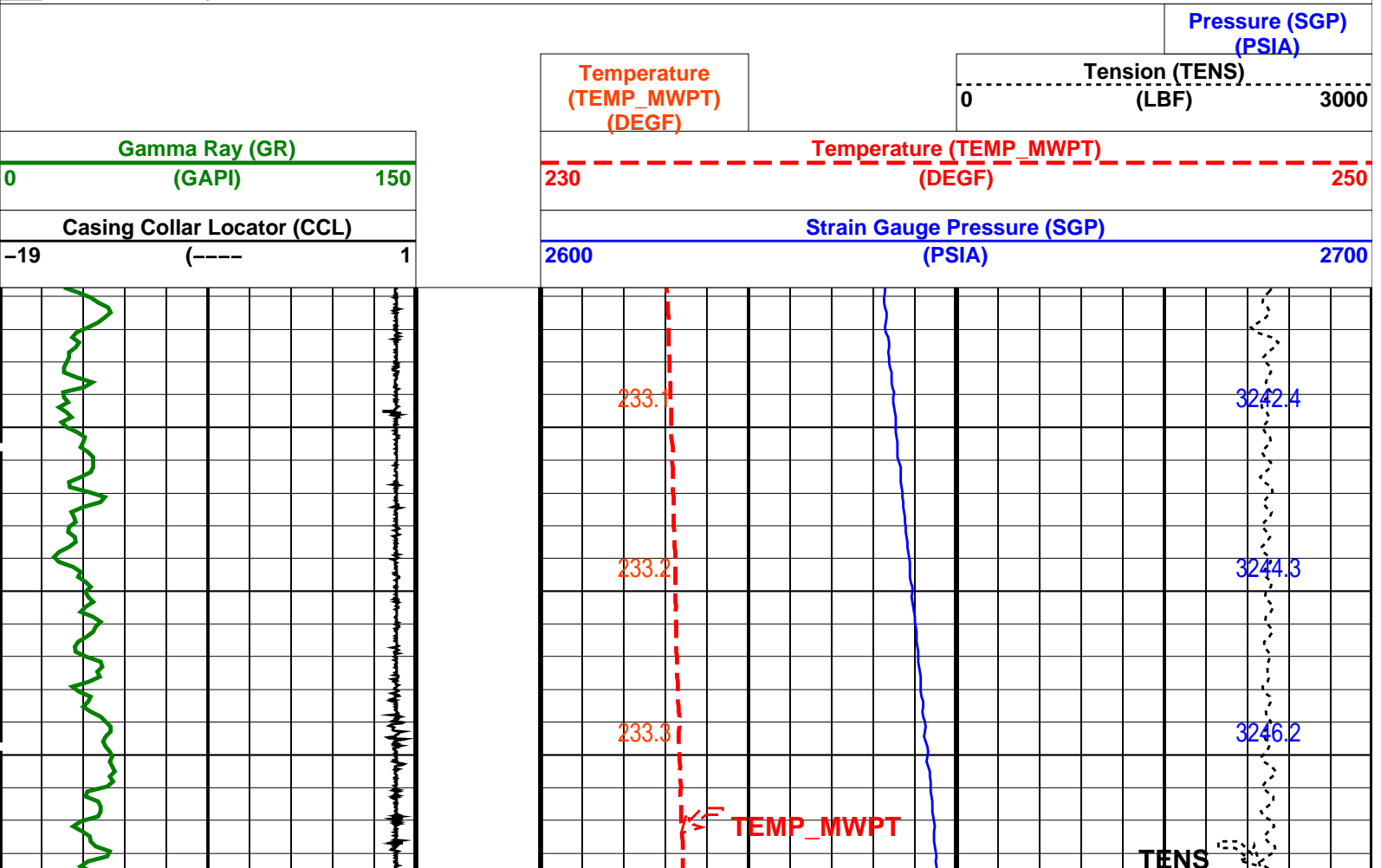
MCM

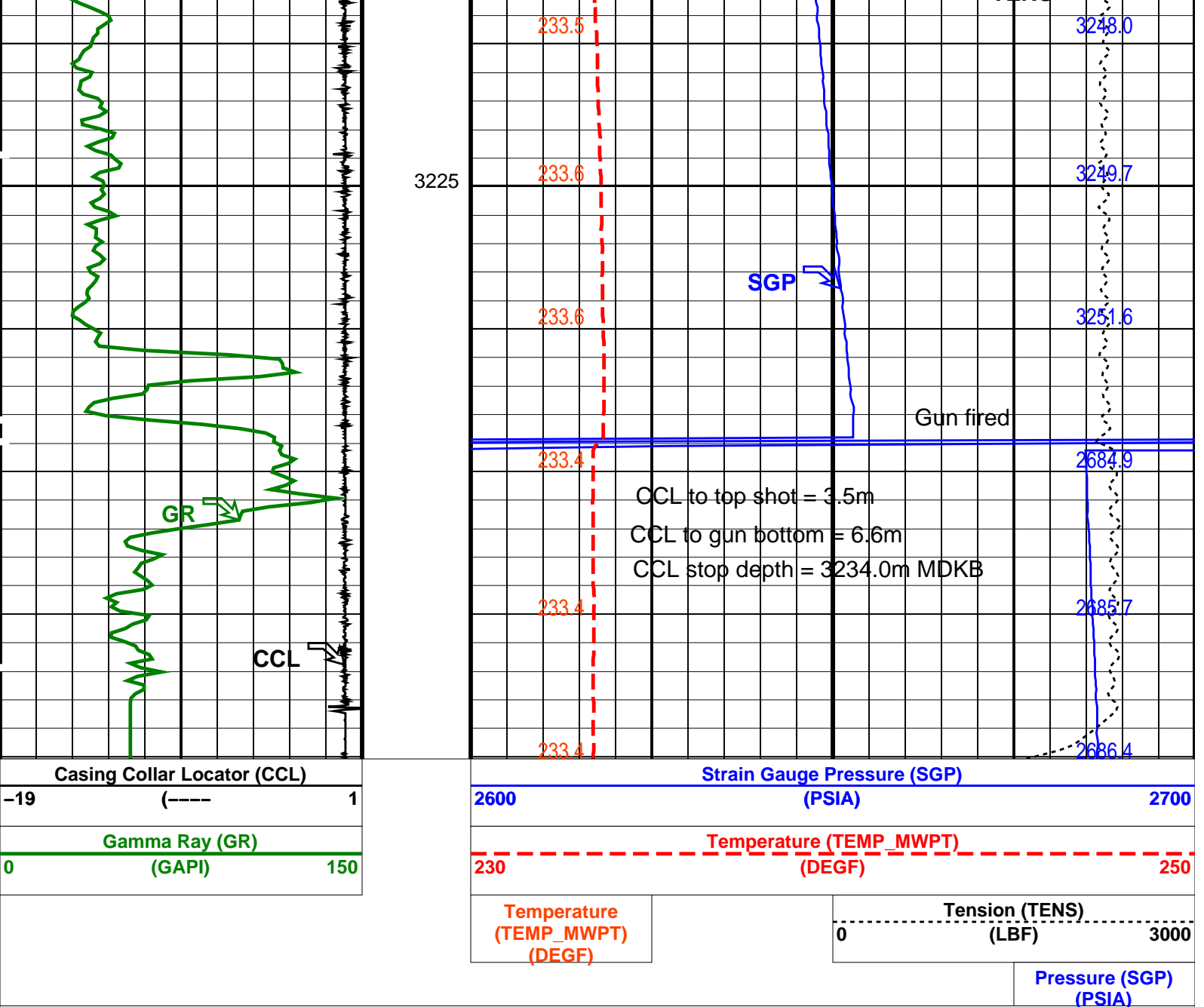
MWP_GUN 13C0-300
MWGT-AA 13C0-300

MWPT-CA 13C0-300

PIP SUMMARY

Time Mark Every 60 S





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
---------	--------------	-------	----------	-------------------

Output DLIS Files

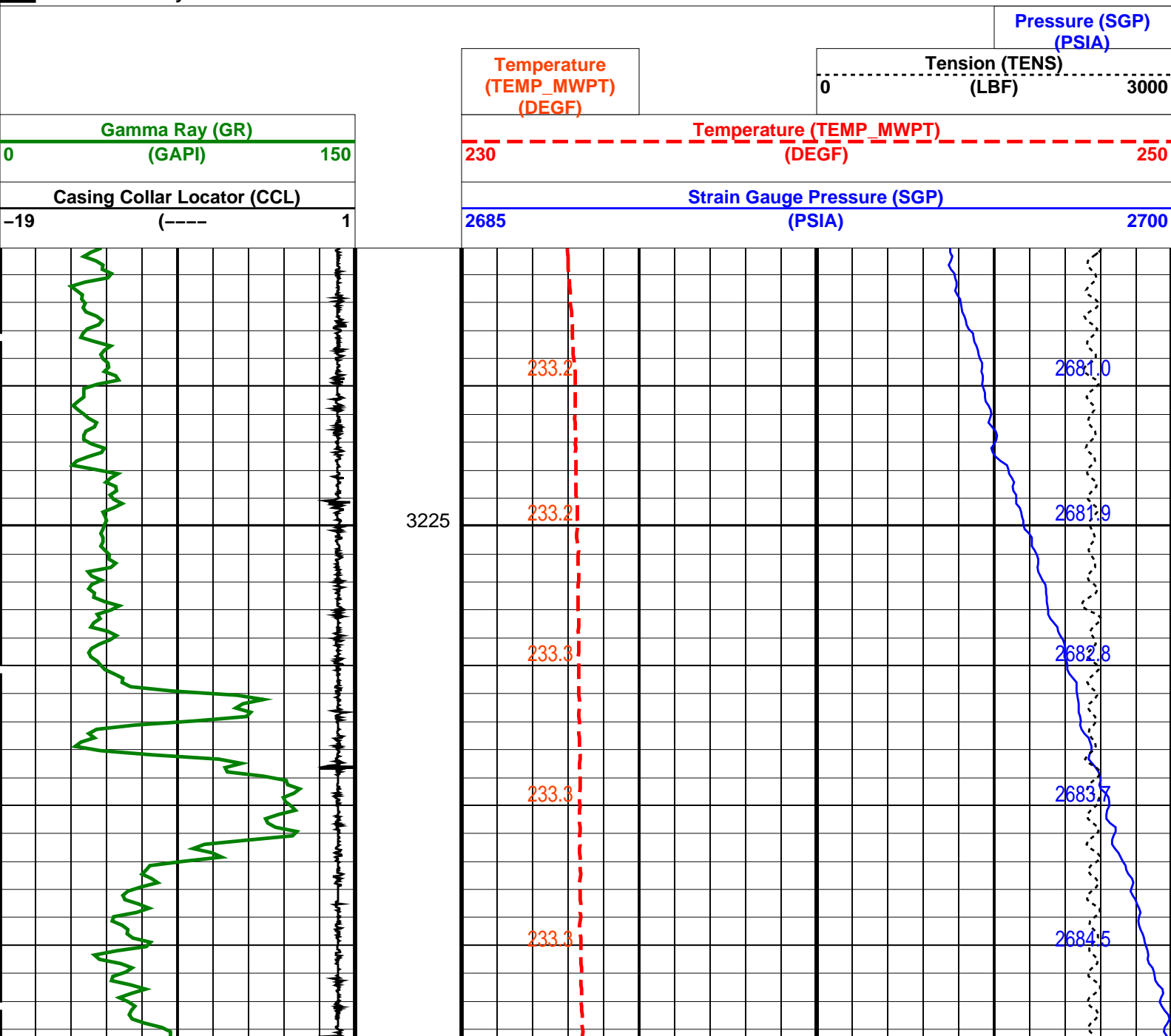
DEFAULT PERFO_082LUP FN:80 PRODUCER 27-Feb-2006 17:11 3245.1 M 3215.0 M

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



<div> <div>Casing Collar Locator (CCL)</div> <div> <div>-19</div> <div>(----</div> <div>1</div> </div> </div>										<div> <div>Strain Gauge Pressure (SGP)</div> <div> <div>2685</div> <div>(PSIA)</div> <div>2700</div> </div> </div>									
<div> <div>Gamma Ray (GR)</div> <div> <div>0</div> <div>(GAPI)</div> <div>150</div> </div> </div>										<div> <div>Temperature (TEMP_MWPT)</div> <div> <div>230</div> <div>(DEGF)</div> <div>250</div> </div> </div>									
<div> <div>Temperature (TEMP_MWPT)</div> <div>(DEGF)</div> </div>										<div> <div>Tension (TENS)</div> <div> <div>0</div> <div>(LBF)</div> <div>3000</div> </div> </div>									
										<div> <div>Pressure (SGP)</div> <div>(PSIA)</div> </div>									

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

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