

Company: ExxonMobil

Well: FLA A-2a

Field: Flounder

Rig: Prod 4

Country: Australia

2 1/8" Enerjet Gun
MWPT
Perforating Record

Prod 4

Flounder

Gippsland Basin

FLA A-2a

ExxonMobil

LOCATION		Elev.: K.B. 33 m G.L. -94 m D.F. 33 m	
Gippsland Basin			
Bass Strait			
Permanent Datum: _____ Mean Sea Level _____ Elev.: 33 m Log Measured From: _____ Kelly Bushing _____ -33.0 m above Perm. Datum Drilling Measured From: _____ Kelly Bushing _____			
State: Victoria	Max. Well Deviation 44 deg	Longitude 148 26' 56" S	Latitude 038 18' 56" E

Logging Date	14-Nov-2005		
Run Number	1		
Depth Driller	2849 m		
Schlumberger Depth	2738 m		
Bottom Log Interval	2738 m		
Top Log Interval	2682 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size	8.500 in		
From			
To			
Casing/Tubing Size	7.000 in		
Weight	26 lbn/ft		
Grade	L-80		
From	11.8 m		
To	2849 m		
Maximum Recorded Temperatures	112 degC		
Logger On Bottom	14-Nov-2005	15:45	
Unit Number	1	VEA	
Recorded By	Paul Tarrant & Joel Hogan		
Witnessed By	Barrie White		

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	44 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: 14-NOV-2005 17:29:09

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: 22 Sep 05 Calibrator Serial Number: 57144 Calibration Gain: 1.295 Calibration Offset: 777	Type: 2-32ZT Serial Number: 22372 Length: 4799.99 M Conveyance Method: Wireline Rig Type: Offshore_Fixed

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Log
Reference Log Run Number:	1
Reference Log Date:	16 Sep 05

Depth Control Remarks

1.
2.
3.
4.
5.
6.

DISCLAIMER

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OTHER SERVICES1 OS1: MPBT OS2: DB-TT OS3: OS4: OS5:
REMARKS: RUN NUMBER 1
Log correlated to Solar log dated 16 Sep 05, provided by the client.
Objective: To perforate the well at 2714m to 2715.5m MDKB using 2 1/8" Enerjet gun loaded with PowerSpiral charges. After perforating, obtained static FBHP of 3318 psi and FBHT 111 degC, then flowed well for 15 min to obtain FBHP, FBHT and also for well clean up. FBHP: 3316 psi

FBHP = 3316 psi
FBHT = 112 degC
API Data:
Spiral PowerJet charges, UN 0441
Penetration: 27.3"
Entrance Hole: 0.25"
Specialist: Paul Tarrant & Joel Hogan
Operators: Andy Hall, Eddy Mezenberg
Performed by Schlumberger

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		

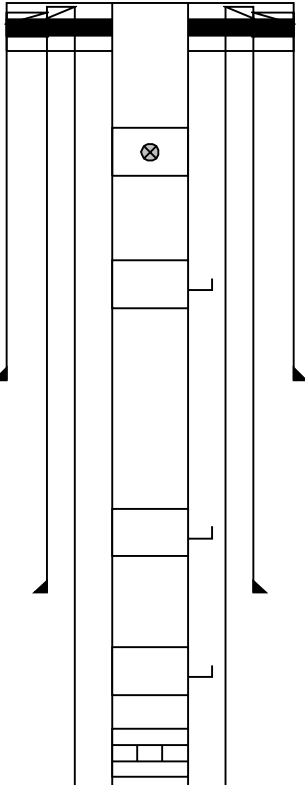
SURFACE EQUIPMENT		
MWPM-AA		

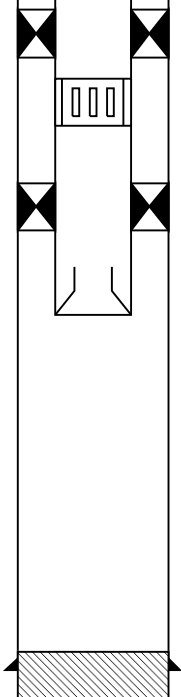
DOWNHOLE EQUIPMENT		
AH-SWBS AH-SWBS 731		11.02
AH-SWBS AH-SWBS 761		10.34
AH-SWBS AH-SWBS 762		9.65
AH-SWBS AH-SWBS 763		8.97
MH-SWHS MH-SWHS 726		8.28
MWGT-AA MWPG-AA 24 MWGH-AA 24		7.95
	MWPG GR — 2.41	
MWPT-CA MWPH-AA 74 MWPS-AA 74		6.97
	CCL SMWP Pres SMWP Temp Tension — TOOL ZERO	
AH FLEX JOINT		4.15

4.15
3.85
3.54
3.05
2.74

TOOL BOTTOM

Rig Name: Flounder
Reference Datum: Kelly Bushing
Elevation: 33 m

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID			MD	MD		
Tubing Hanger	3.500	2.992	11.8		11.8	7.000	Casing String Liner Hanger	
Shutin Valve	3.500		443.0		11.8	9.625		7.000
Gas Lift Mandrel	3.500		789.9					
Gas Lift Mandrel	3.500		1284.6					
Gas Lift Mandrel	3.500		1487.6					
Nipple	3.500		1601.2					
					981.5	13.375		Casing Shoe
					1350.0	9.625		Casing Shoe

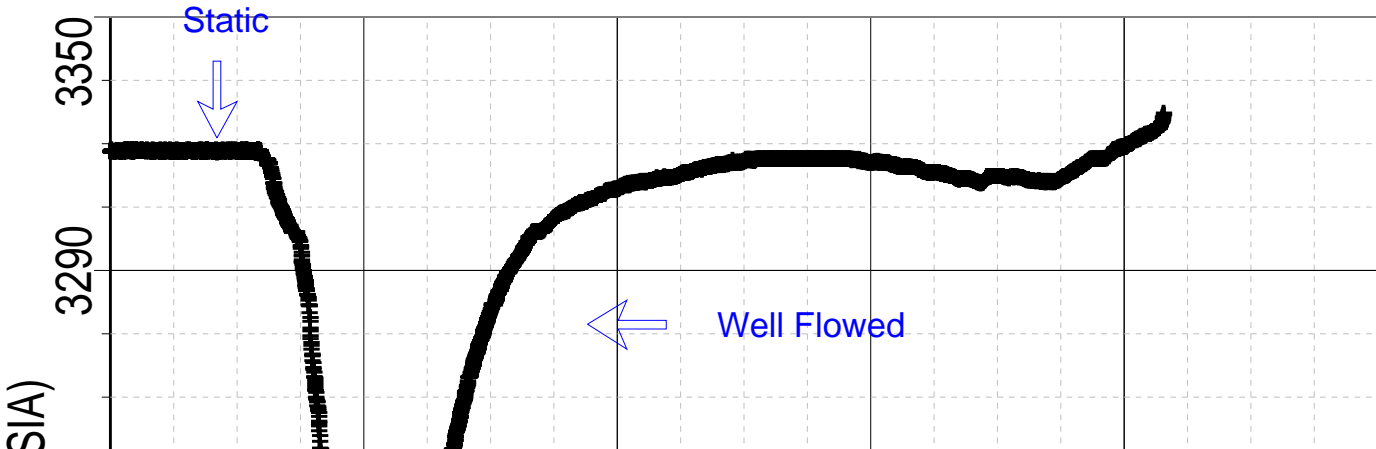
Packer	7.000	3.500	2082.8					
Sliding Sleeve	3.500		2099.9					
Packer	7.000	3.500	2179.4					
Bell Nipple Guide	3.500		2185.1					
					2796.9	7.000		PBTD

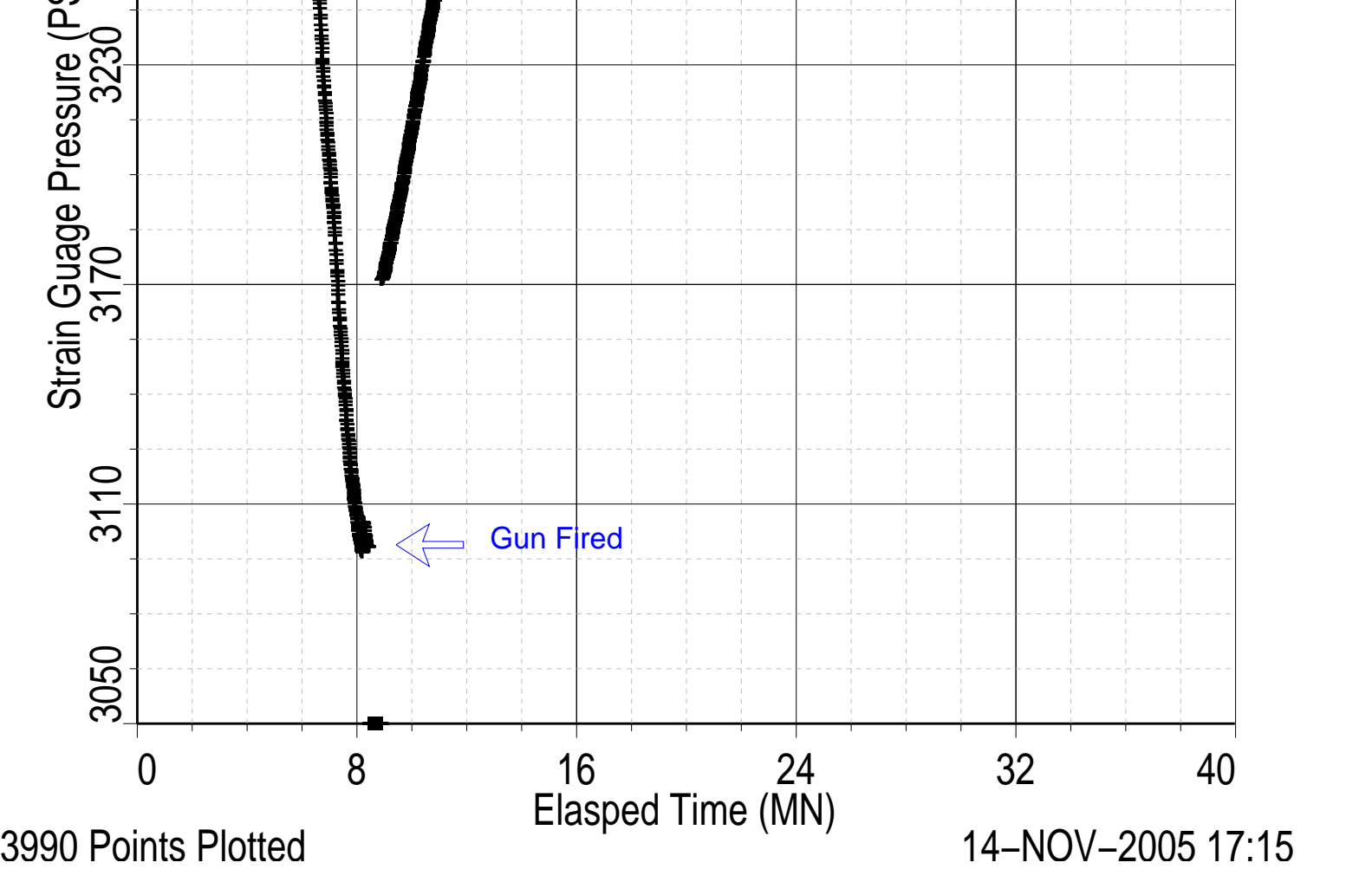


MWPT 2 1/8" Gun
Station Log

MAXIS Field Log

Index: 29631.6 – 39763.7 M

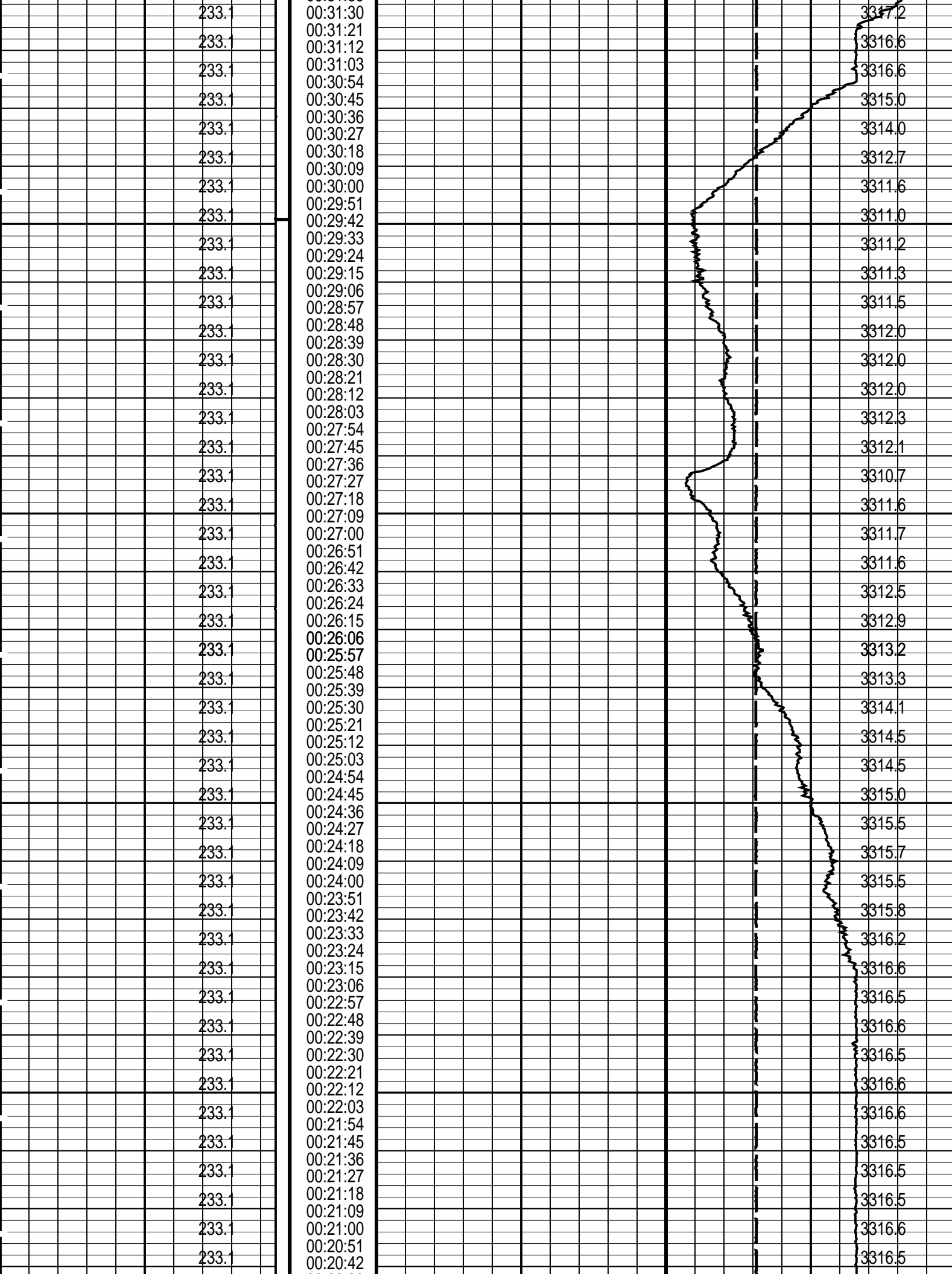


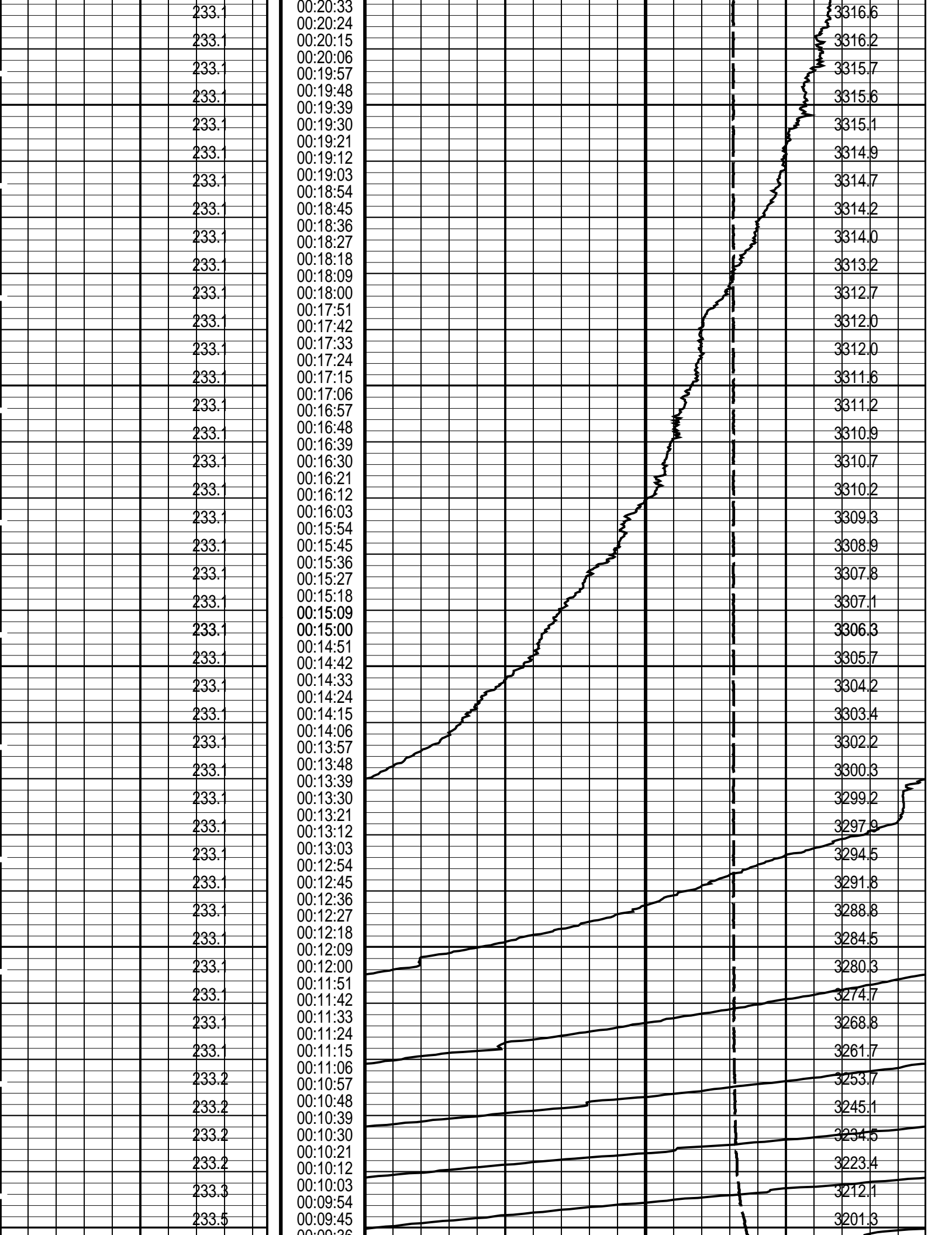


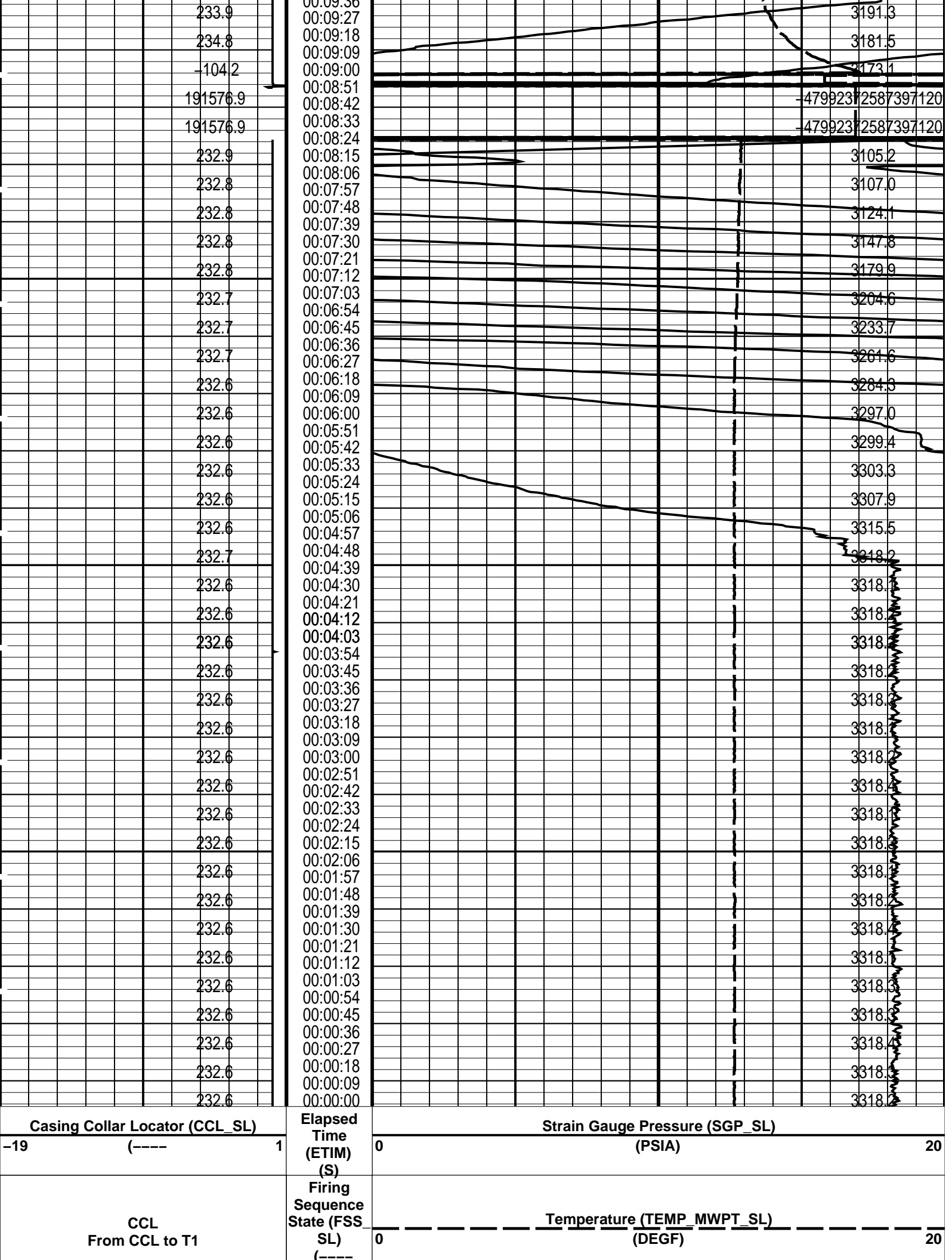
Output DLIS Files						
DEFAULT	PERFO_023LTP	FN:22	PRODUCER	14-Nov-2005 16:21	2709.9 M	5.1 M
OP System Version: 13C0-300						
MCM						
MWP_GUN	SRC-2820-ASFS-WPP_1	MWPT-CA		SRC-2820-ASFS-WPP_1		
MWGT-AA	SRC-2820-ASFS-WPP_1					

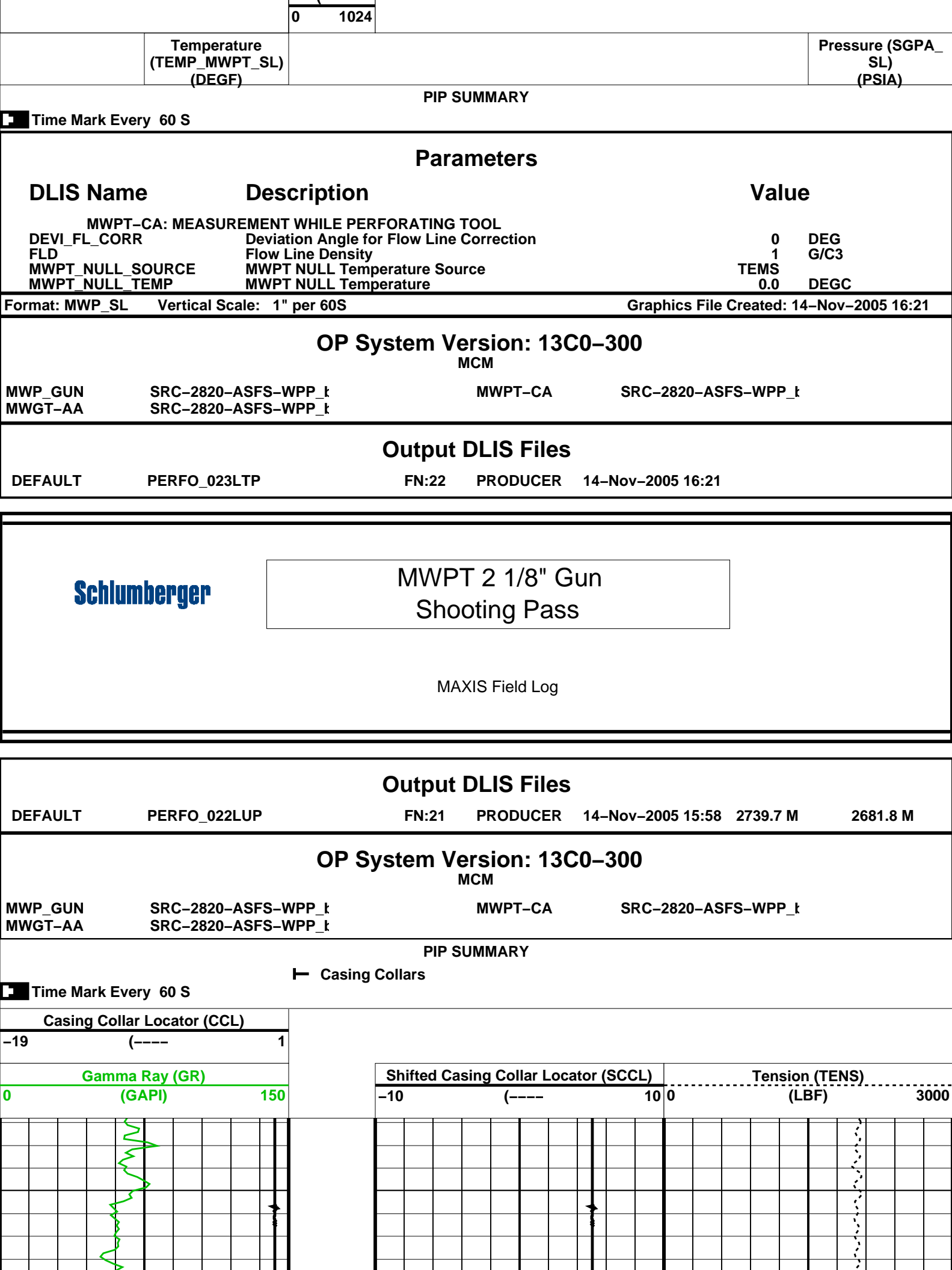
PIP SUMMARY

		Temperature (TEMP_MWPT_SL) (DEGF)			Pressure (SGPA_SL) (PSIA)		
CCL From CCL to T1		Firing Sequence State (FSS SL) (----	Temperature (TEMP_MWPT_SL) (DEGF)				
		0	20				
		0	1024				
Casing Collar Locator (CCL_SL)		Elapsed Time (ETIM)	Strain Gauge Pressure (SGP_SL) (PSIA)				
-19 (----		1	20				
	233.1	00:31:18	3327.5				
	233.1	00:33:09	3323.1				
	233.1	00:33:00	3322.4				
	233.1	00:32:51	3321.5				
	233.1	00:32:42	3320.3				
	233.1	00:32:33	3319.1				
	233.1	00:32:24	3318.6				
	233.1	00:32:15					
	233.1	00:32:06					
	233.1	00:31:57					
	233.1	00:31:48					
	233.1	00:31:39					









Schlumberger

MWPT 2 1/8" Gun
Shooting Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_022LUP FN:21 PRODUCER 14-Nov-2005 15:58 2739.7 M 2681.8 M

OP System Version: 13C0-300

MCM

MWP_GUN SRC-2820-ASF5-WPP_t MWPT-CA SRC-2820-ASF5-WPP_t

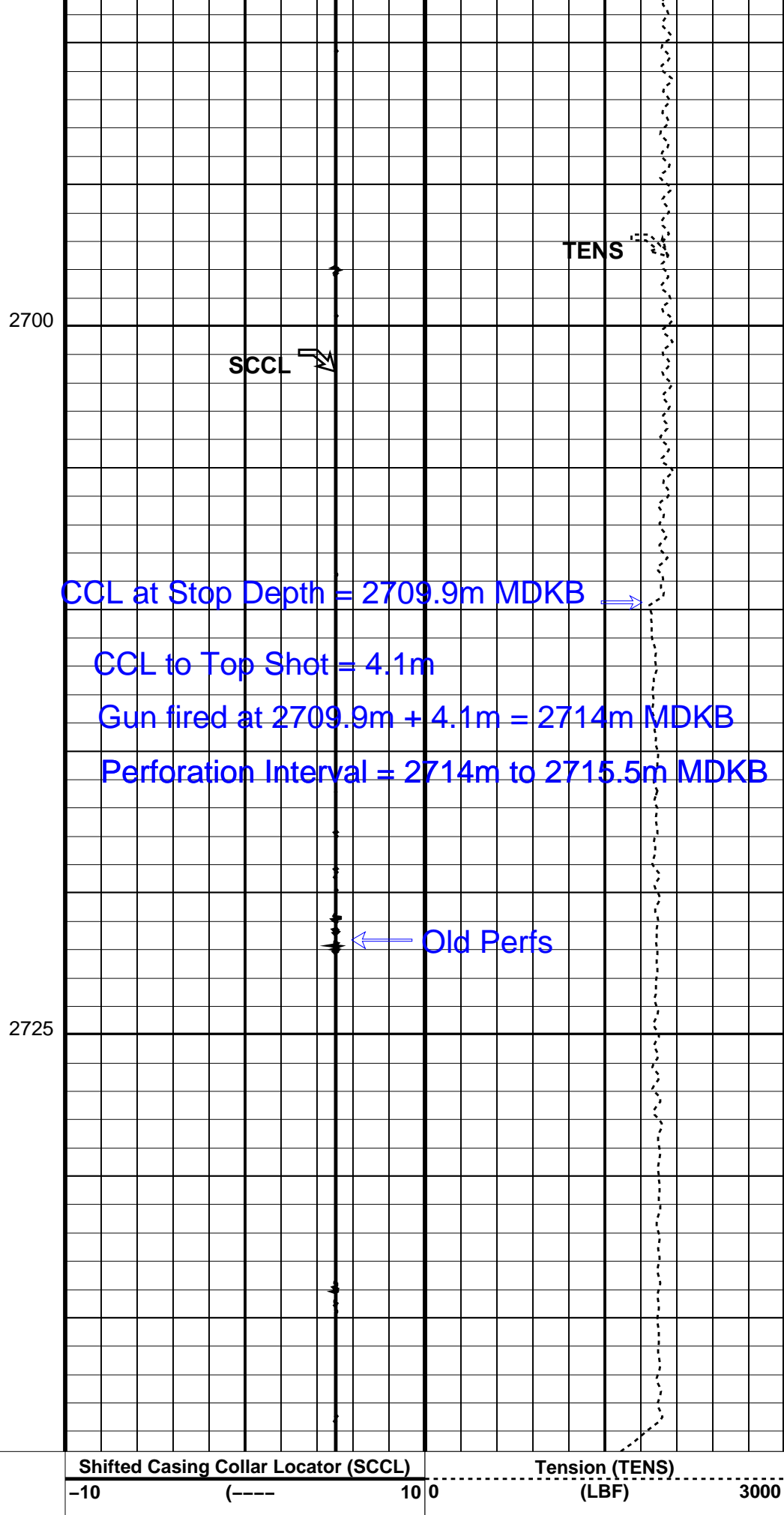
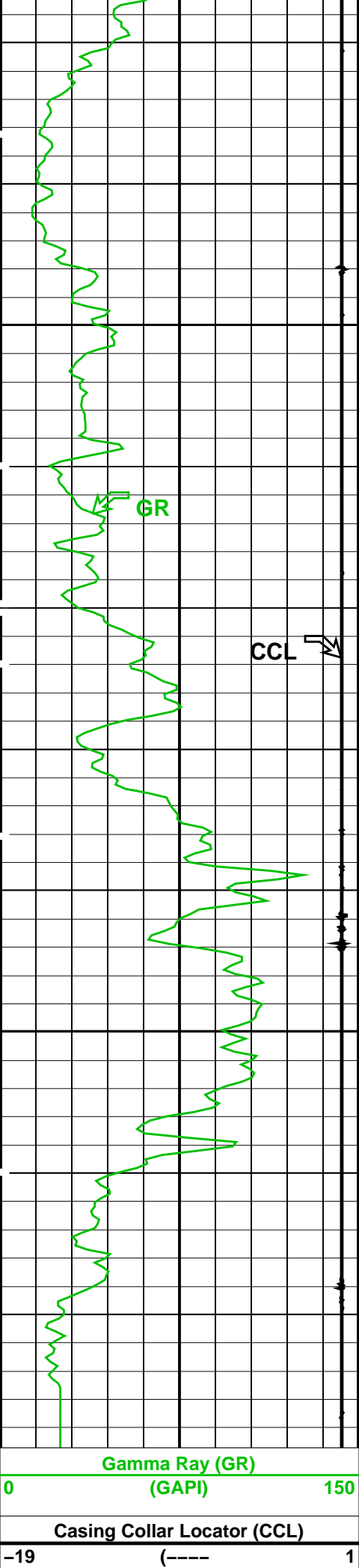
MWGT-AA SRC-2820-ASF5-WPP_t

PIP SUMMARY

Casing Collars

Time Mark Every 60 S

Casing Collar Locator (CCL)	Shifted Casing Collar Locator (SCCL)	Tension (TENS)
-19 (----) 1	-10 (----) 10	0 (LBF) 3000
Gamma Ray (GR) (GAPI)		
0150		
		



PIP SUMMARY

Time Mark Every 60 S

Casing Collars

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

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 14-Nov-2005 15:58

OP System Version: 13C0-300

MCM

MWP_GUN	SRC-2820-ASFS-WPP_1	MWPT-CA	SRC-2820-ASFS-WPP_1
MWGT-AA	SRC-2820-ASFS-WPP_1		

Output DLIS Files

DEFAULT	PERFO_022LUP	FN:21	PRODUCER	14-Nov-2005 15:58
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Schlumberger

MWPT 2 1/8" Gun
Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT	PERFO_021LUP	FN:20	PRODUCER	14-Nov-2005 15:43
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OP System Version: 13C0-300

MCM

MWP_GUN	SRC-2820-ASFS-WPP_1	MWPT-CA	SRC-2820-ASFS-WPP_1
MWGT-AA	SRC-2820-ASFS-WPP_1		

PIP SUMMARY

Time Mark Every 60 S

