

Company: ExxonMobil

Well: TNA A-12

Field: Tuna

Rig: Prod 4

Country: Australia

**2 1/8" Enerjet Gun
7 " MPBT Plug
Dump Bailer Record**

Field: Tuna
Location: Gippsland Basin
Well: TNA A-12
Company: ExxonMobil

LOCATION	
Gippsland Basin Bass Strait	Elev.: K.B. 32.9 m G.L. -59 m D.F. 31.4 m
Permanent Datum: _____	Mean Sea Level _____
Log Measured From: _____	Kelly Bushing _____
Drilling Measured From: _____	Kelly Bushing _____
State: Victoria	Max. Well Deviation 41 deg
	Elev.: 0.0 m -32.9 m above Perm. Datum
	Longitude 148 25' 5.588" S
	Latitude 38 10' 16.235" E

Logging Date	30-Oct-2005
Run Number	1, 2 & 3
Depth Driller	2565 m
Schlumberger Depth	2369.5 m
Bottom Log Interval	2369.5 m
Top Log Interval	2321 m
Casing Fluid Type	Production Fluids
Salinity	
Density	
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	8.500 in
From	1661.85 m
To	2565 m
Casing/Tubing Size	7.000 in
Weight	23 lbm/ft
Grade	K-55
From	1661.85 m
To	2515.9 m
Maximum Recorded Temperatures	102 degC
Logger On Bottom	30-Oct-2005
Unit Number	1
Location	VEA
Time	15:00
Recorded By	Paul Tarrant
Witnessed By	Barry White

		Run 1	Run 2	Run 3
PVT DATA				
Oil Density				
Water Salinity				
Gas Gravity				
Bo				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation	41 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				
Time				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 30-OCT-2005 12:17:47

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-Dec-2005 Calibrator Serial Number: 57144 Calibration Gain: 1.00 Calibration Offset: 0.00	Type: 2-32ZT Serial Number: 4207 Length: 4799.99 M <hr/> Conveyance Method: Wireline Rig Type: Rigless

Depth Control Parameters

Log Sequence:	First Log In the Well
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Depth Control Remarks

1.	
2.	
3.	
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:
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REMARKS: RUN NUMBER 1 Log correlated to Solar log dated 23 APR 2003, provided by the client.

Objective: To perforate the well at 2351m to 2353m MDKB using 2 1/8" Enerjet gun loaded with PowerSpiral charges. After perforating, flowed well for 15 min to obtain FBHP, FBHT and for well clean up. Set 7" MPBT Plug at 2372m MDKB with 1 run of water and 1 run of cement,
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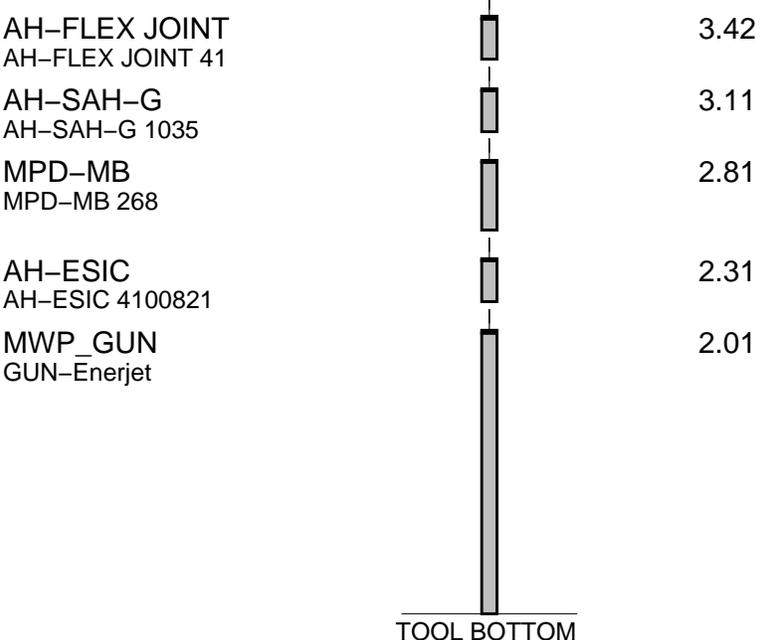
giving approximately 1.1m of cement on top of plug.
 API Data:
 EJ Power Spiral, HMX charges
 Entrance Hole – 0.25"
 Penetration – 27.3"
 Specialist: Paul Tarrant
 Operators: Andy Hall, Eddy Mez
 Performed by Schlumberger

RUN 1			RUN 2		
PROGRAM VERSION:		46000447	PROGRAM VERSION:		
FLUID LEVEL:		13C0-300	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

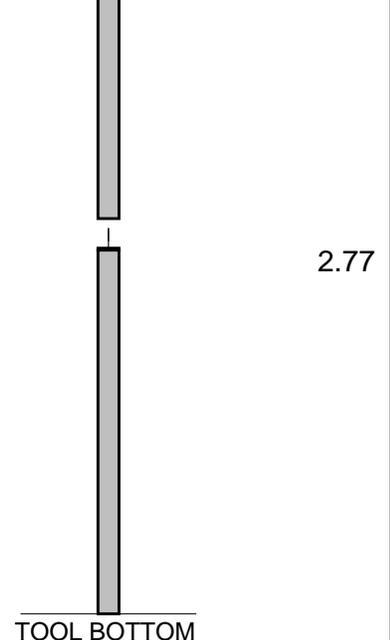
RUN 1		RUN 2	
SURFACE EQUIPMENT		SURFACE EQUIPMENT	
MWPM-AA		MPBM 81	

RUN 1			RUN 2		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
AH-SWBS AH-SWBS 731		10.29	AH-SWBS AH-SWBS 731		12.02
AH-SWBS AH-SWBS 761		9.60	AH-SWBS AH-SWBS 761		11.34
AH-SWBS AH-SWBS 762		8.92	AH-SWBS AH-SWBS 762		10.65
AH-SWBS AH-SWBS 763		8.23	MH-22 MH-22		9.97
			CCL-L CCL-L 4191	CCL Tachomete Cable Cur Head Volt Tension	TOOL ZERO 9.64
MH-SWHS MH-SWHS 726		7.54	MPSU-CA MPSU-CA 1011		9.18
MWGT-AA MWPG-AA 24 MWGH-AA 24		7.21			
	MWPG GR	2.41			
MWPT-CA MWPH-AA 94 MWPS-AA 94		6.24			
	CCL SMWP Pres SMWP Temp Tension	TOOL ZERO			



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

MPEX-EA_S
MPEX-EA_S



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

Client: ExxonMobil
Well: TNA A-12
Field: Tuna
State: Victoria
Country: Australia

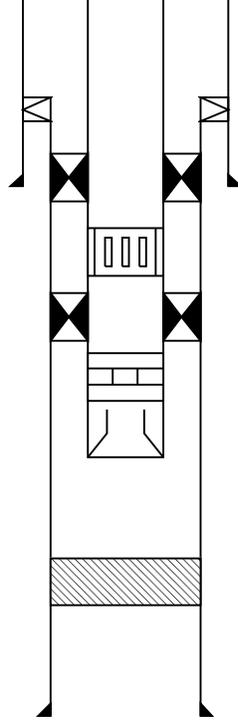
Drawing Date: 10/31/2005
API #:

Rig Name: Tuna
Reference Datum: Kelly Bushing
Elevation: 32.9 m

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID			MD	MD		
Tubing Bagger	13.5075	2.992	13.6		14.8	13.025	Casing String	
Shutin Valve	3.500		459.1		732.8	13.375	Casing Shoe	
Gas Lift Mandrel	3.500		1170.6					
Nipple	3.500		1185.0					
Gas Lift Mandrel	3.500		1586.2					
Nipple	3.500		1602.5					

Packer
Sliding Sleeve
Packer
Nipple
Bell Nipple Guide

7.000	3.500	1997.0
3.500		2286.1
7.000	3.500	2315.0
3.500		2322.9
3.500		2323.3



1661.8	7.000	
1661.8	9.625	7.000
1768.5	9.625	
2389.0		
2515.9	7.000	

Casing String
Liner Hanger
Casing Shoe

PBT

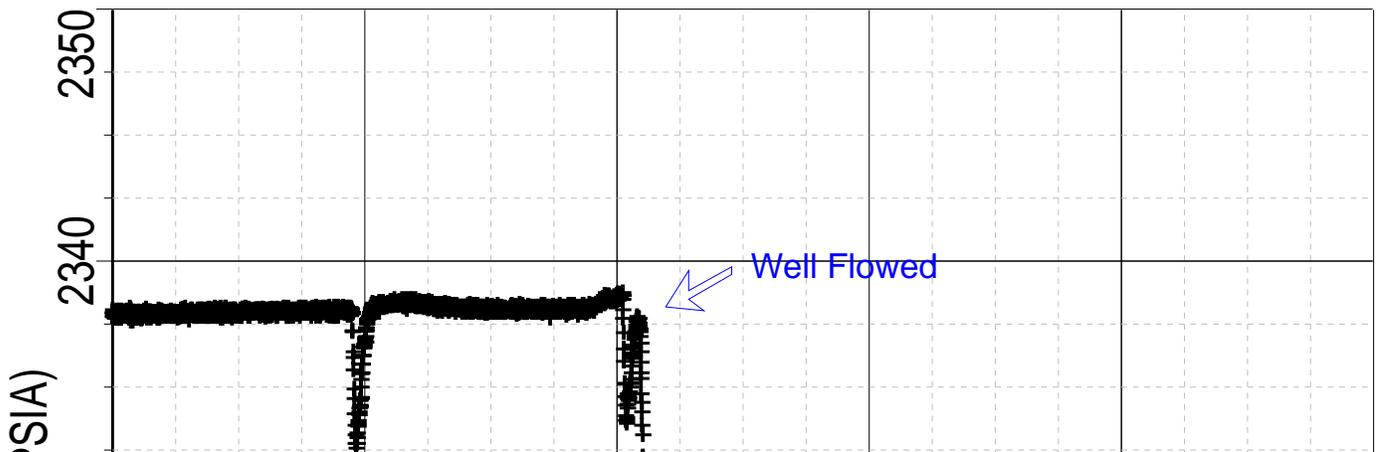
Casing Shoe

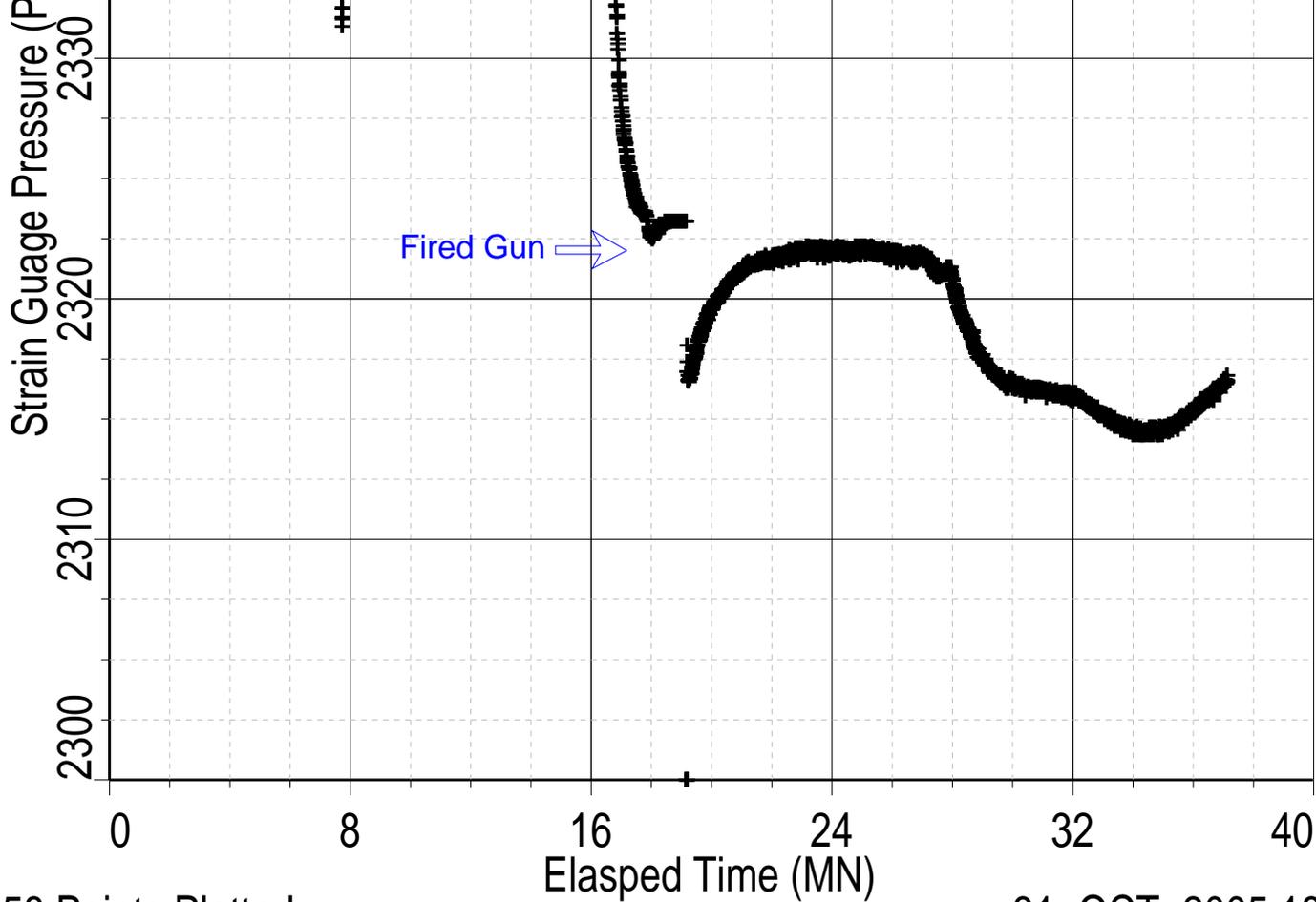


2 1/8" Enerjet Gun Station Log

MAXIS Field Log

Index: 19034.8 – 30355.5 M





4458 Points Plotted

31-OCT-2005 18:49

Output DLIS Files

DEFAULT PERFO_012LTP FN:11 PRODUCER 30-Oct-2005 15:25 2347.4 M 5.7 M

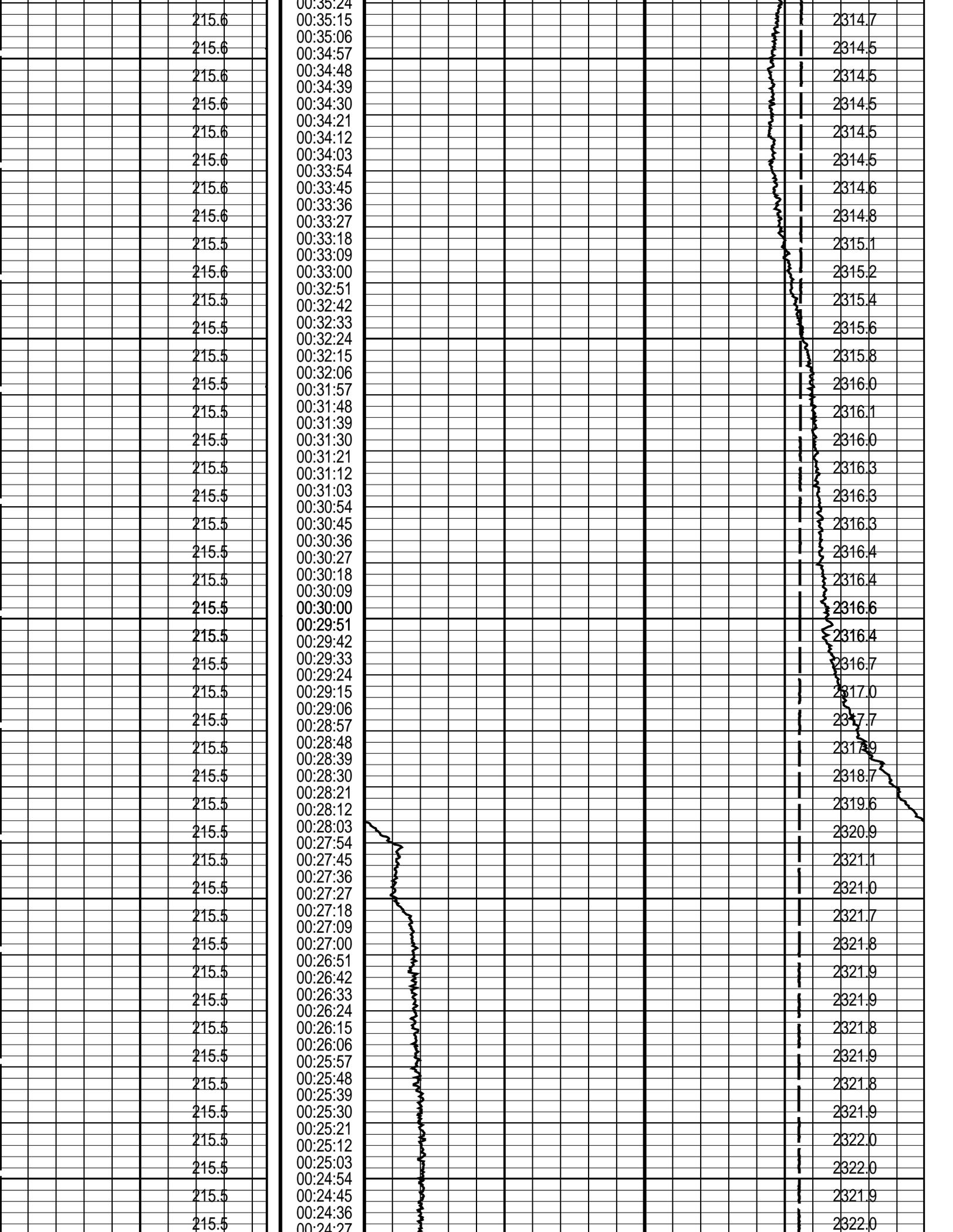
OP System Version: 13C0-300
MCM

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

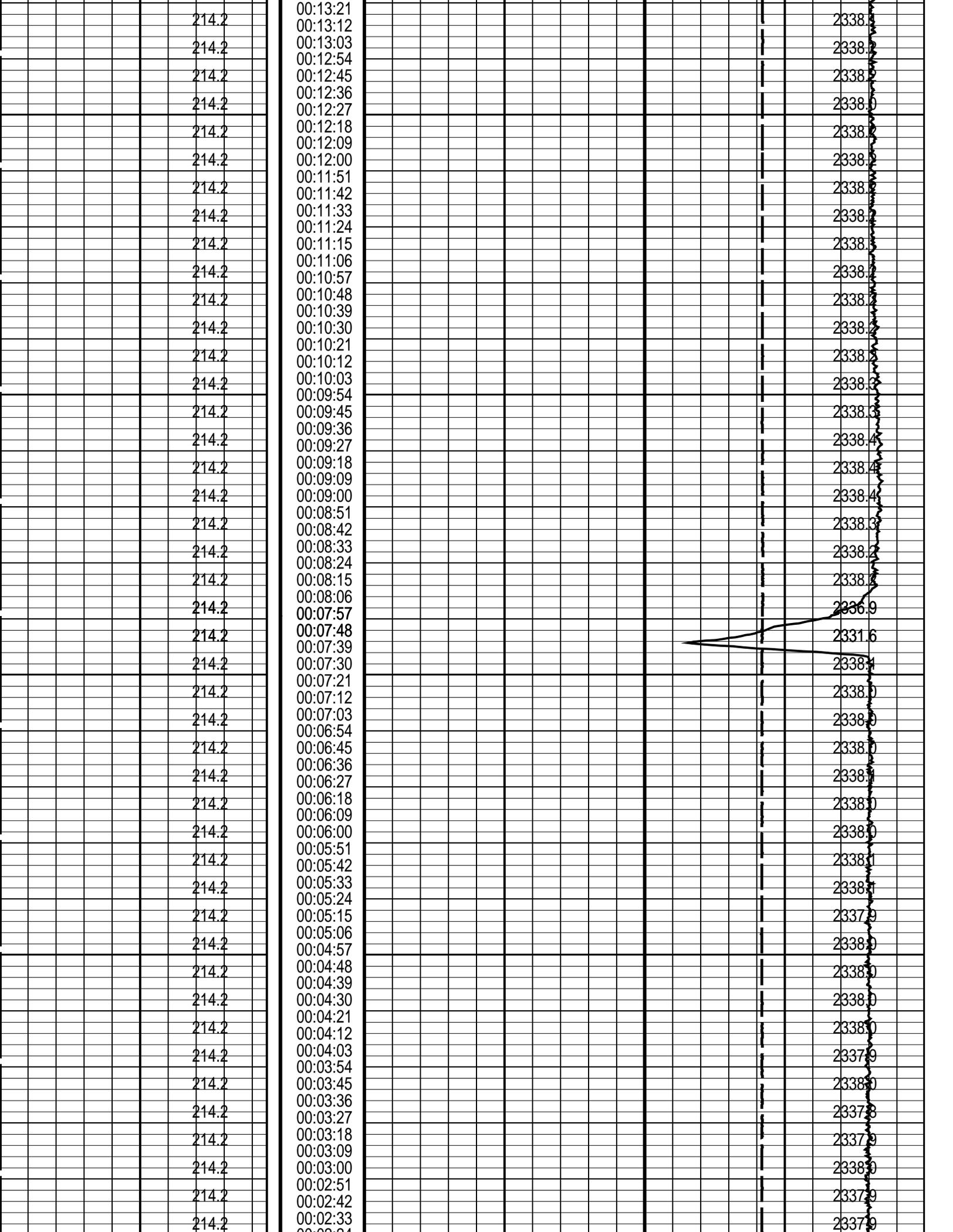
PIP SUMMARY

Time Mark Every 60 S

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 1024	0 20	
Casing Collar Locator (CCL_SL) (----)		Strain Gauge Pressure (SGP_SL) (PSIA)	
-19	1	0 20	
215.6	00:37:03		2316.4
215.6	00:36:54		2316.2
215.6	00:36:45		2315.9
215.6	00:36:36		2315.7
215.6	00:36:27		2315.3
215.6	00:36:18		2315.1
215.6	00:36:09		2315.0
215.6	00:36:00		
215.6	00:35:51		
215.6	00:35:42		
215.6	00:35:33		
215.6	00:35:24		



215.5	00:24:18	2322.0
215.5	00:24:09	2322.1
215.5	00:23:51	2322.0
215.5	00:23:42	2322.0
215.5	00:23:33	2322.0
215.5	00:23:24	2322.1
215.5	00:23:15	2322.0
215.5	00:23:06	2322.0
215.5	00:22:57	2322.0
215.5	00:22:48	2322.0
215.5	00:22:39	2321.8
215.6	00:22:30	2321.6
215.6	00:22:21	2321.7
215.7	00:22:12	2321.6
215.8	00:22:03	2321.5
215.8	00:21:54	2321.4
215.8	00:21:45	2321.1
215.8	00:21:36	2320.9
216.0	00:21:27	2320.5
216.2	00:21:18	2320.1
216.2	00:21:09	2319.6
216.5	00:21:00	2318.9
217.1	00:20:51	2318.0
218.0	00:20:42	2316.6
219.8	00:20:33	2323.2
221.7	00:20:24	2323.2
222.9	00:20:15	2323.2
218.8	00:20:06	2323.0
214.4	00:20:06	2322.6
214.4	00:19:57	2323.5
214.4	00:19:48	2324.1
214.4	00:19:39	2325.4
214.4	00:19:30	2328.1
214.4	00:19:21	2336.8
214.4	00:19:12	2336.5
214.3	00:19:03	2335.4
214.3	00:18:54	2338.6
214.3	00:18:45	2338.6
214.3	00:18:36	2338.3
214.3	00:18:27	2338.1
214.3	00:18:18	2338.1
214.3	00:18:09	2338.1
214.3	00:18:00	2338.1
214.2	00:17:51	2338.1
214.2	00:17:42	2338.1
214.2	00:17:33	2338.1
214.2	00:17:24	2338.1
214.2	00:17:15	2338.1
214.2	00:17:06	2338.1
214.2	00:16:57	2338.1
214.2	00:16:48	2338.1
214.2	00:16:39	2338.1
214.2	00:16:30	2338.1
214.2	00:16:21	2338.1
214.2	00:16:12	2338.1
214.2	00:16:03	2338.1
214.2	00:15:54	2338.1
214.2	00:15:45	2338.1
214.2	00:15:36	2338.1
214.2	00:15:27	2338.1
214.2	00:15:18	2338.1
214.2	00:15:09	2338.1
214.2	00:15:00	2338.1
214.2	00:14:51	2338.1
214.2	00:14:42	2338.1
214.2	00:14:33	2338.1
214.2	00:14:24	2338.1
214.2	00:14:15	2338.1
214.2	00:14:06	2338.1
214.2	00:13:57	2338.1
214.2	00:13:48	2338.1
214.2	00:13:39	2338.1
214.2	00:13:30	2338.1



214.2	00:02:24	2337.8
214.2	00:02:06	2337.9
214.2	00:01:57	2338.0
214.2	00:01:48	2337.9
214.2	00:01:39	2337.9
214.2	00:01:30	2337.8
214.2	00:01:21	2337.8
214.2	00:01:12	2337.9
214.2	00:01:03	2337.9
214.2	00:00:54	2337.9
214.2	00:00:45	2337.8
214.2	00:00:36	2337.8
214.2	00:00:27	2337.9
214.2	00:00:18	2338.0
214.2	00:00:09	2338.0
214.2	00:00:00	2338.0

Casing Collar Locator (CCL_SL) -19 (----) 1	Elapsed Time (ETIM) (S) 0	Strain Gauge Pressure (SGP_SL) (PSIA) 20
CCL From CCL to T1	Firing Sequence State (FSS SL) (----) 0 1024	Temperature (TEMP_MWPT_SL) (DEGF) 20

Temperature (TEMP_MWPT_SL) (DEGF)	Pressure (SGPA_SL) (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_SL Vertical Scale: 1" per 60S Graphics File Created: 30-Oct-2005 15:25

OP System Version: 13C0-300
MCM

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

Output DLIS Files

DEFAULT PERFO_012LTP FN:11 PRODUCER 30-Oct-2005 15:25



2 1/8" Enerjet Gun
Shooting Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_010LUP FN:9 PRODUCER 30-Oct-2005 15:22 2356.1 M 2318.5 M

OP System Version: 13C0-300

MCM

MWP_GUN
MWGT-AA

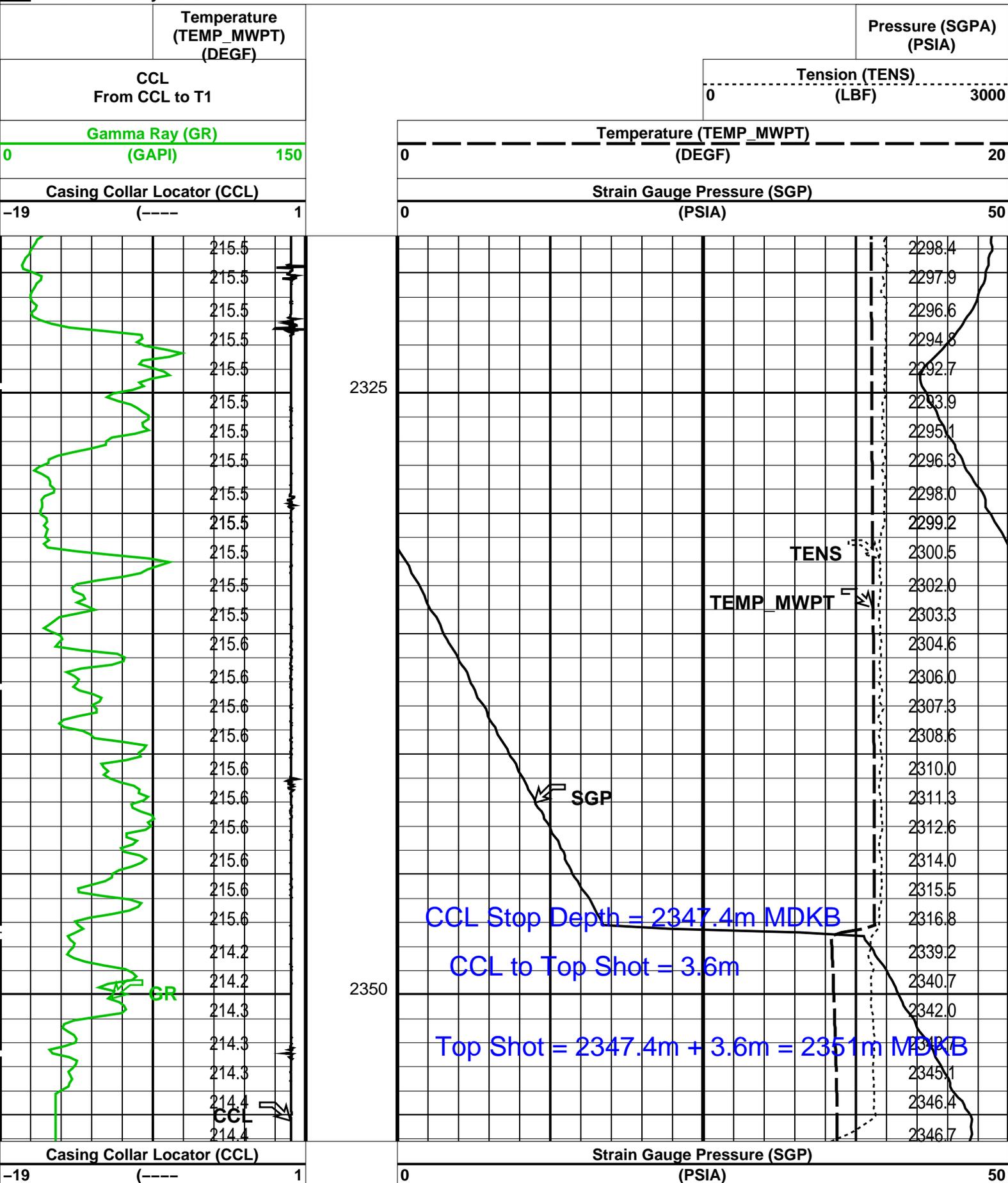
SRC-2820-ASFS-WPP_1
SRC-2820-ASFS-WPP_1

MWPT-CA

SRC-2820-ASFS-WPP_1

PIP SUMMARY

Time Mark Every 60 S



Gamma Ray (GR)		
0	(GAPI)	150
CCL From CCL to T1		
Temperature (TEMP_MWPT) (DEGF)		

Temperature (TEMP_MWPT) (DEGF)		0	20
Tension (TENS) (LBF)		0	3000
Pressure (SGPA) (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: 30-Oct-2005 15:22

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

Output DLIS Files

DEFAULT PERFO_010LUP FN:9 PRODUCER 30-Oct-2005 15:22



2 1/8" Enerjet Gun
Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_009LUP FN:8 PRODUCER 30-Oct-2005 15:16 2370.6 M 2336.3 M

OP System Version: 13C0-300
MCM

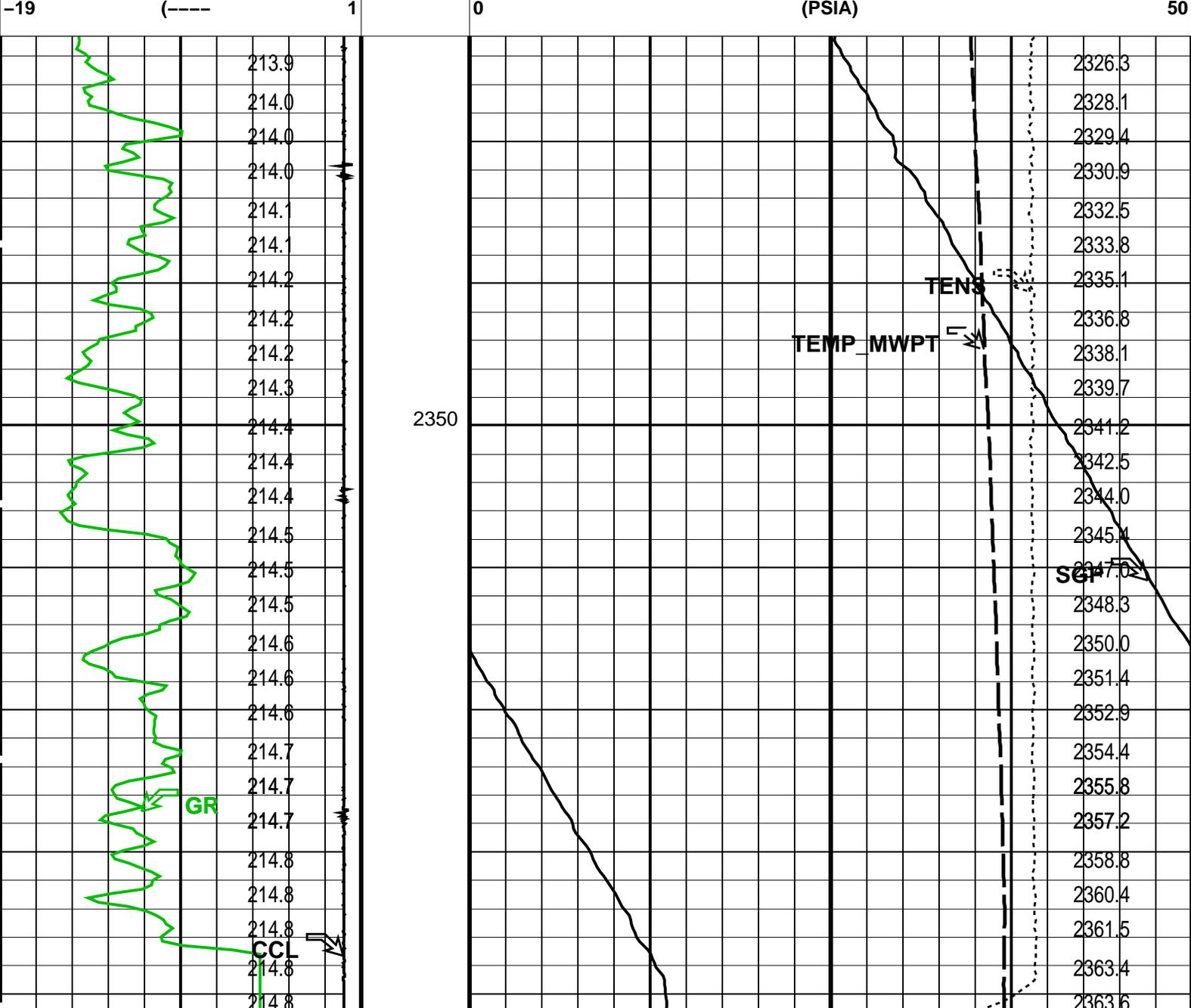
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MWGT-AA SRC-2820-ASF5-WPP_t

PIP SUMMARY

Time Mark Every 60 S

Temperature (TEMP_MWPT) (DEGF)		
CCL From CCL to T1		
Gamma Ray (GR)		
0	(GAPI)	150
Casing Collar Locator (CCL)		

Pressure (SGPA) (PSIA)			
Tension (TENS) (LBF)		0	3000
Temperature (TEMP_MWPT) (DEGF)		0	20
Strain Gauge Pressure (SGP)			



Casing Collar Locator (CCL) Strain Gauge Pressure (SGP) (PSIA)

Gamma Ray (GR) (GAPI) Temperature (TEMP_MWPT) (DEGF)

CCL From CCL to T1 Tension (TENS) (LBF)

Temperature (TEMP_MWPT) (DEGF) Pressure (SGPA) (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

OP System Version: 13C0-300

MCM

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

Output DLIS Files

DEFAULT PERFO_009LUP FN:8 PRODUCER 30-Oct-2005 15:16



Cement Dump Bailer
Run 2 - Cement

MAXIS Field Log

Input DLIS Files

DEFAULT PERFO_035LUP FN:34 PRODUCER 31-Oct-2005 16:30 2358.2 M 2315.3 M

Output DLIS Files

DEFAULT PERFO_037PUP FN:36 PRODUCER 31-Oct-2005 16:38 2361.3 M 2318.8 M

OP System Version: 13C0-300

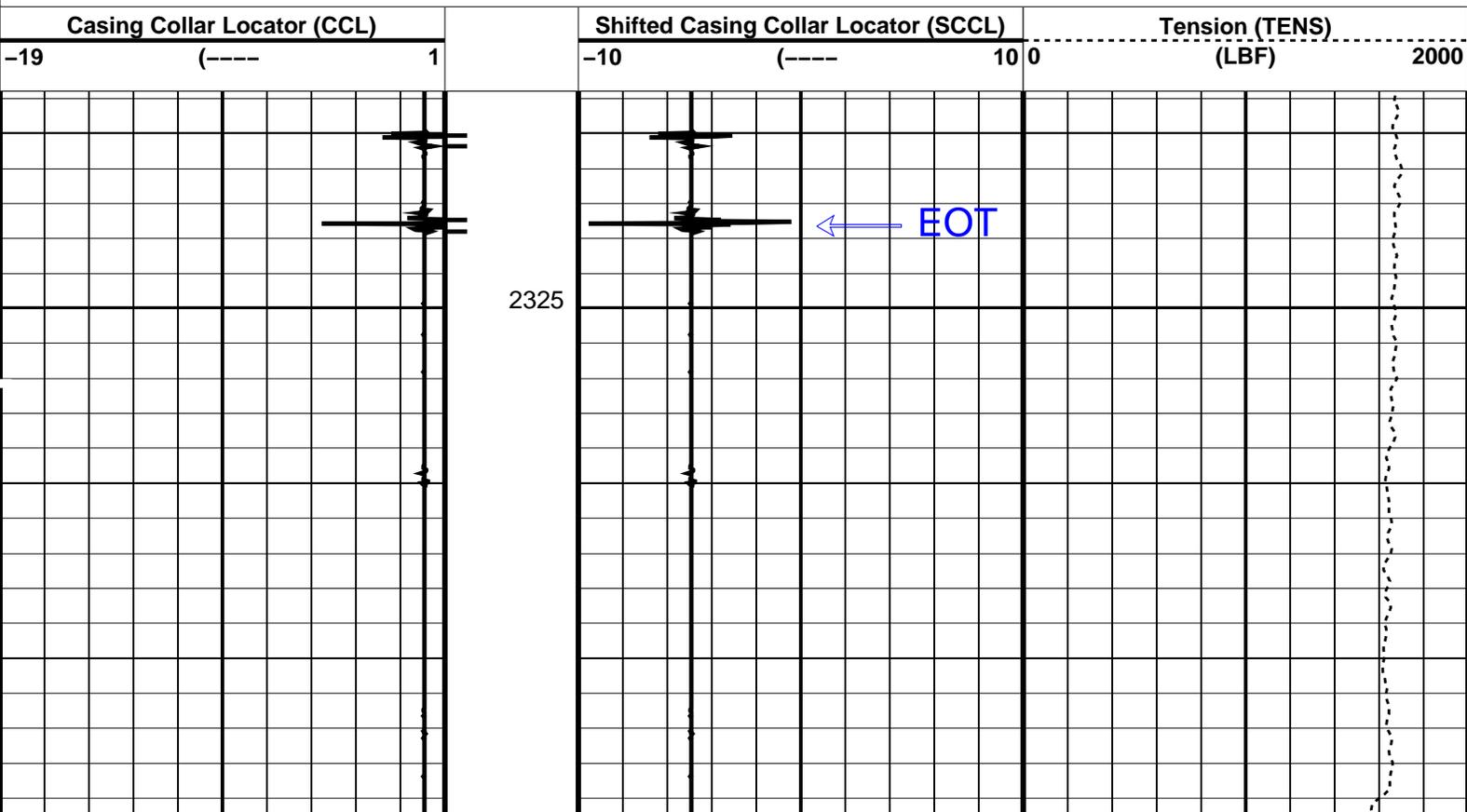
MCM

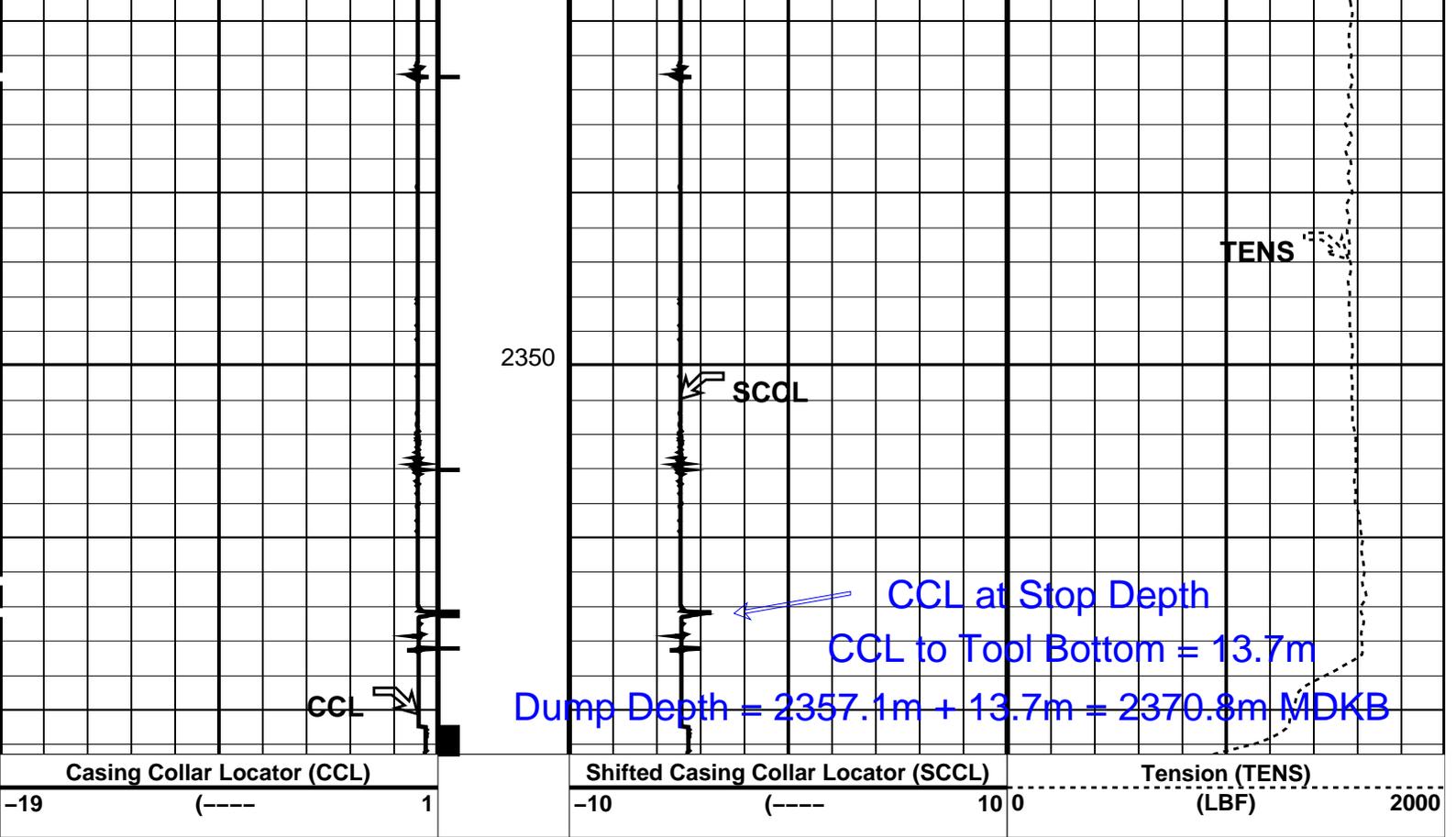
SHM_GUN SRC-2820-ASFS-WPP_t CCL-L 13C0-300

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-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	
	System and Miscellaneous	
DO	Depth Offset for Playback	3.0 M
PP	Playback Processing	NORMAL

Format: PERFO

Vertical Scale: 1:200

Graphics File Created: 31-Oct-2005 16:38

OP System Version: 13C0-300

MCM

SHM_GUN SRC-2820-ASFS-WPP_t CCL-L 13C0-300

Input DLIS Files

DEFAULT PERFO_035LUP FN:34 PRODUCER 31-Oct-2005 16:30 2358.2 M 2315.3 M

Output DLIS Files

DEFAULT PERFO_037PUP FN:36 PRODUCER 31-Oct-2005 16:38



Cement Dump Bailer
Run 1 - Water

Input DLIS Files

DEFAULT PERFO_032LUP FN:31 PRODUCER 31-Oct-2005 14:32 2361.7 M 2310.4 M

Output DLIS Files

DEFAULT PERFO_034PUP FN:33 PRODUCER 31-Oct-2005 16:03 2359.8 M 2308.9 M

OP System Version: 13C0-300

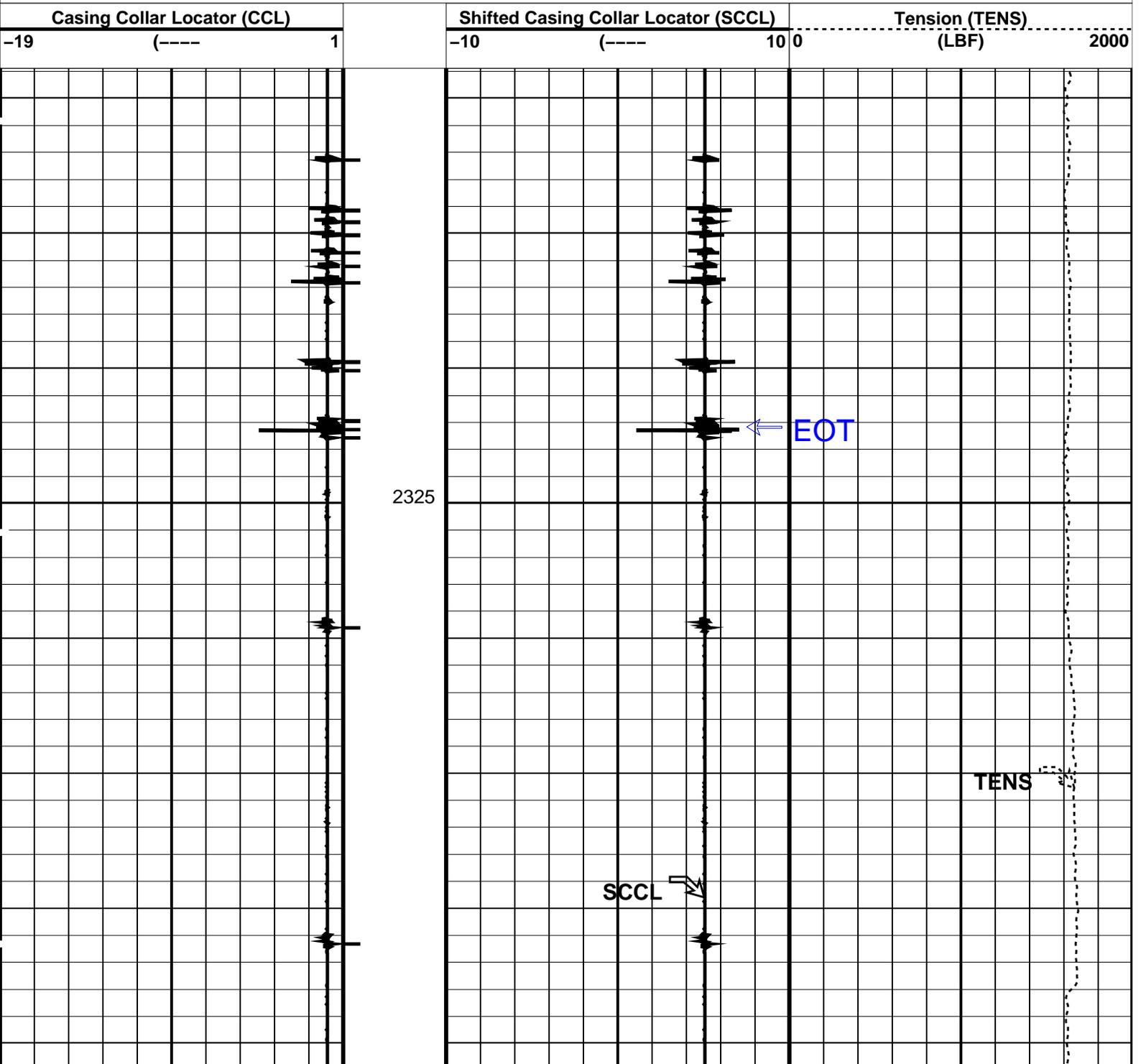
MCM

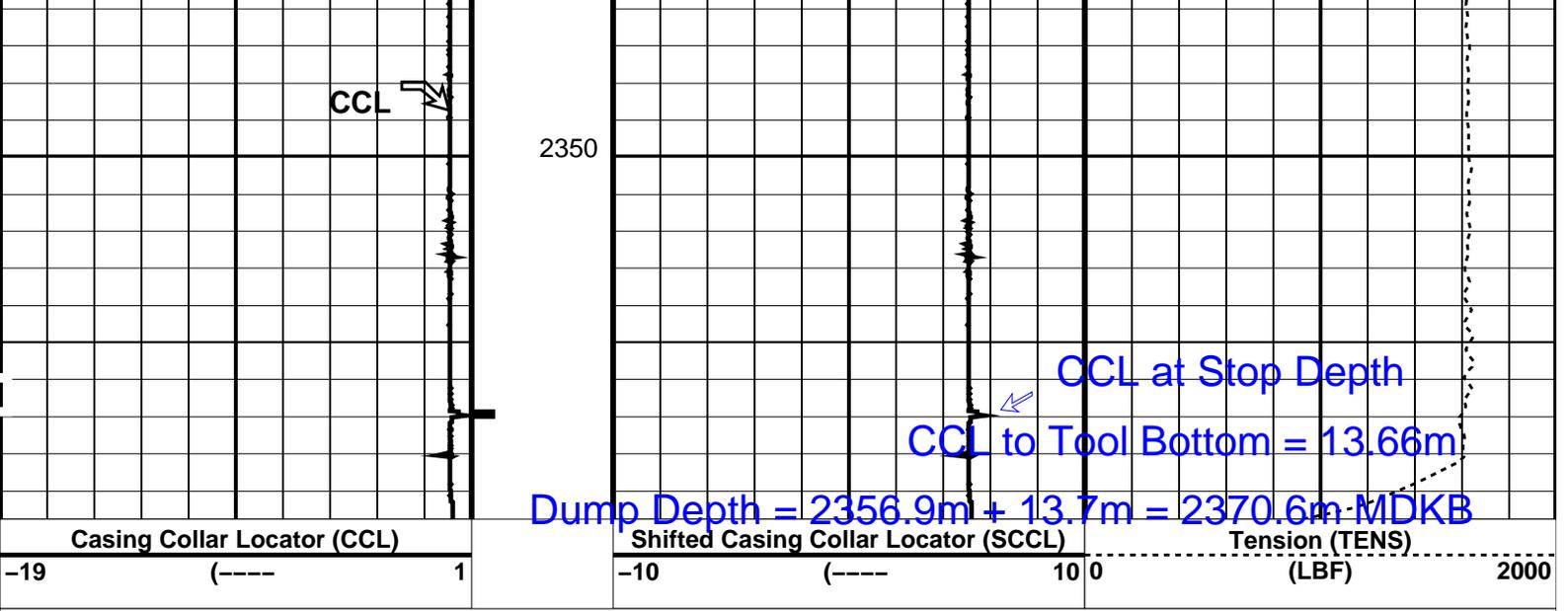
SHM_GUN SRC-2820-ASFS-WPP_k CCL-L 13C0-300

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

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 31-Oct-2005 16:03

OP System Version: 13C0-300

MCM

SHM_GUN SRC-2820-ASFS-WPP_t CCL-L 13C0-300

Input DLIS Files

DEFAULT PERFO_032LUP FN:31 PRODUCER 31-Oct-2005 14:32 2361.7 M 2310.4 M

Output DLIS Files

DEFAULT PERFO_034PUP FN:33 PRODUCER 31-Oct-2005 16:03



7" MPBT Plug
Setting Pass

MAXIS Field Log

Output DLIS Files

DEFAULT CCL_025LUP FN:24 PRODUCER 31-Oct-2005 11:49 12192.0 M 11760.9 M

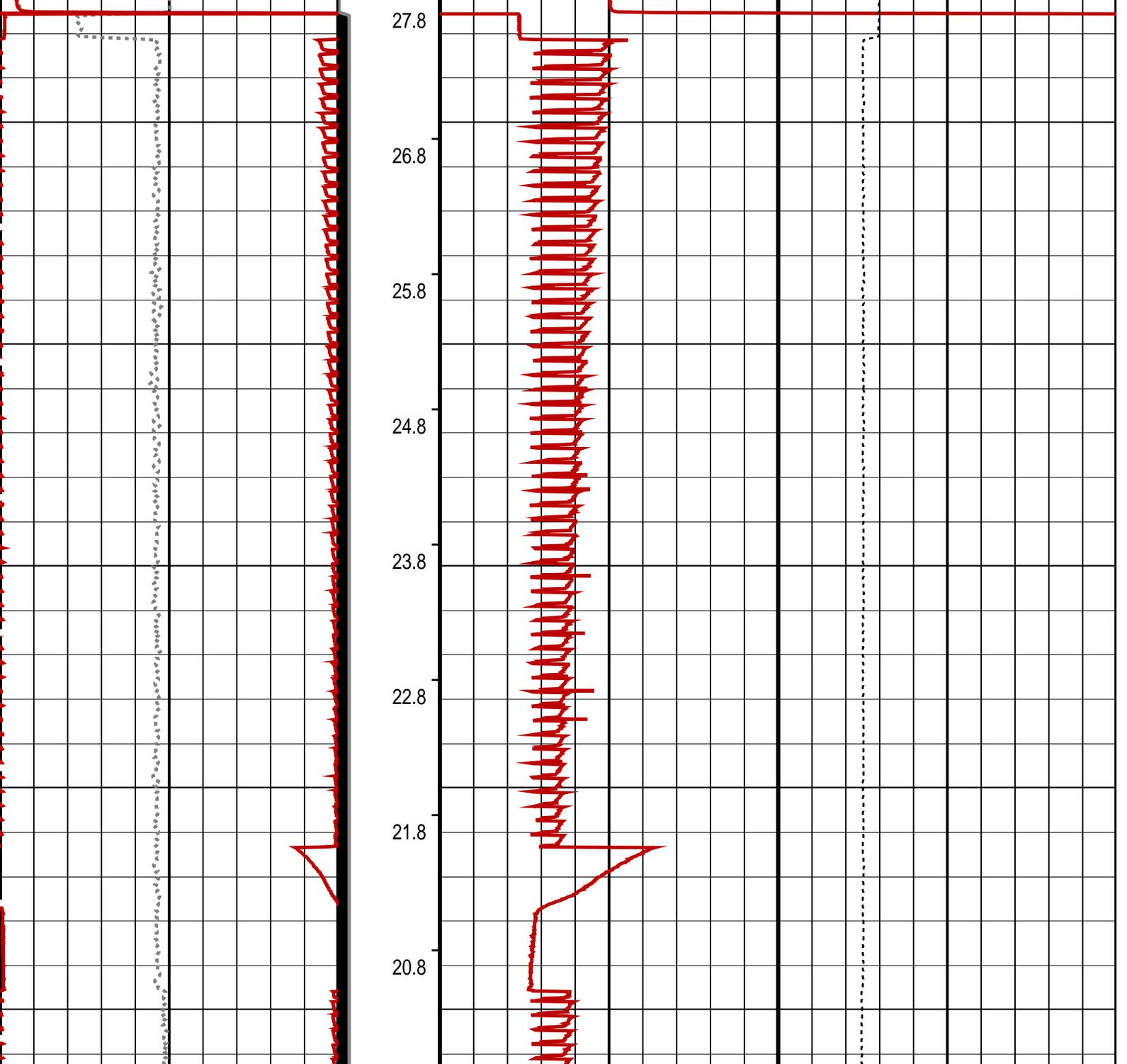
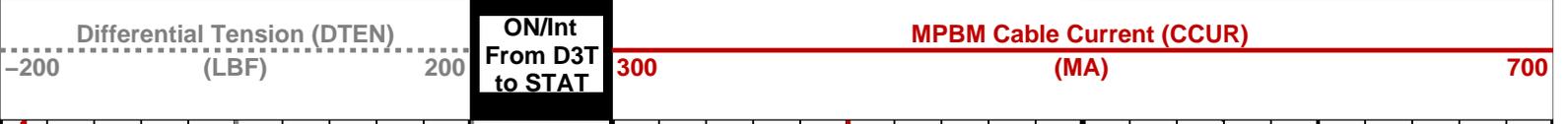
OP System Version: 13C0-300

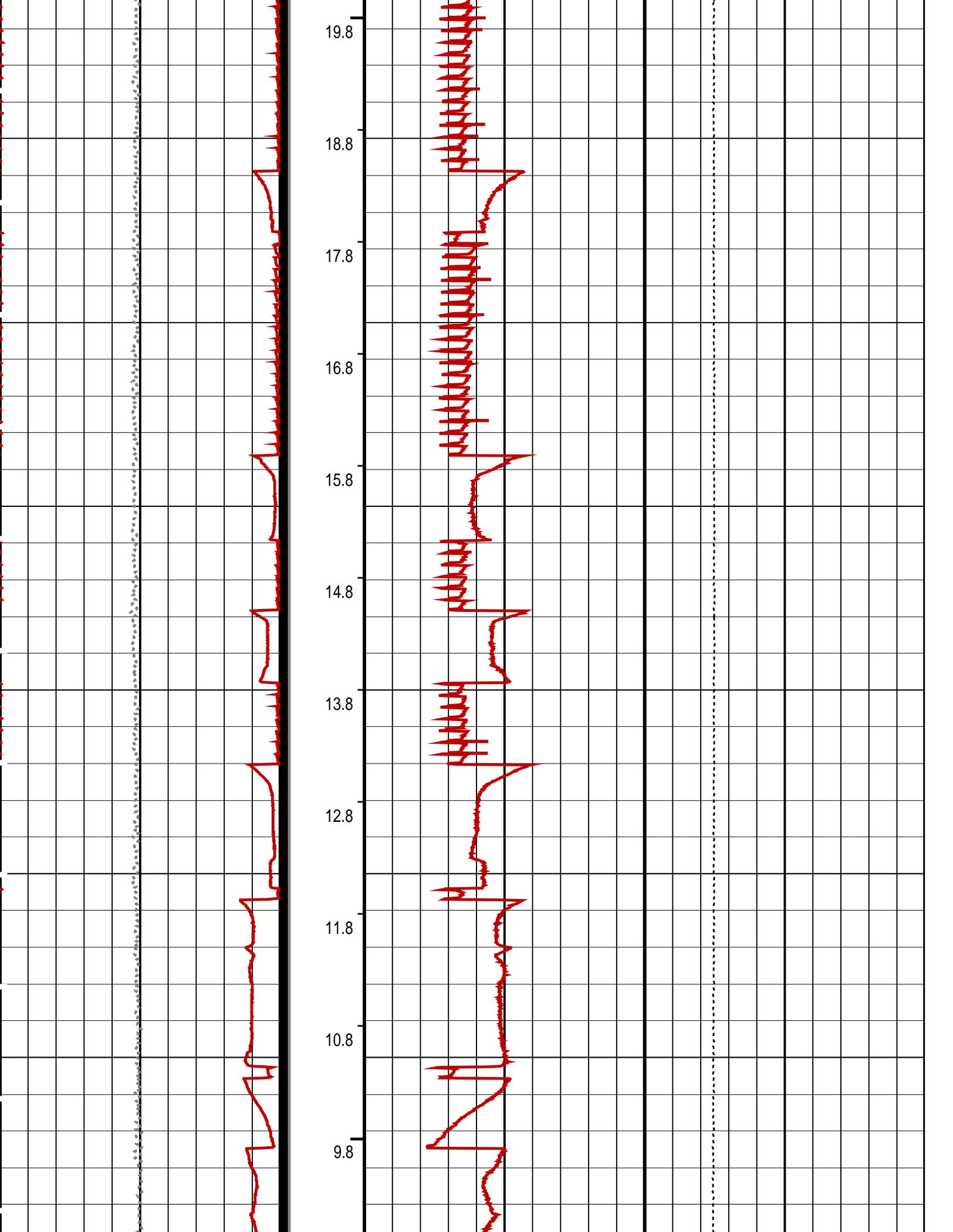
MCM

PIP SUMMARY

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

Time Mark Every 60 S





(RTIM)
(MN)

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: 1:600 Graphics File Created: 31-Oct-2005 11:49

OP System Version: 13C0-300

MCM

MPEX-EA_S	SRC-2820-ASFS-WPP_1	MPSU-CA	SRC-2820-ASFS-WPP_1
CCL-L	13C0-300		

Output DLIS Files

DEFAULT CCL_025LUP FN:24 PRODUCER 31-Oct-2005 11:49



7" MPBT Plug
Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT CCL_024LUP FN:23 PRODUCER 31-Oct-2005 11:41 2376.8 M 2337.8 M

OP System Version: 13C0-300

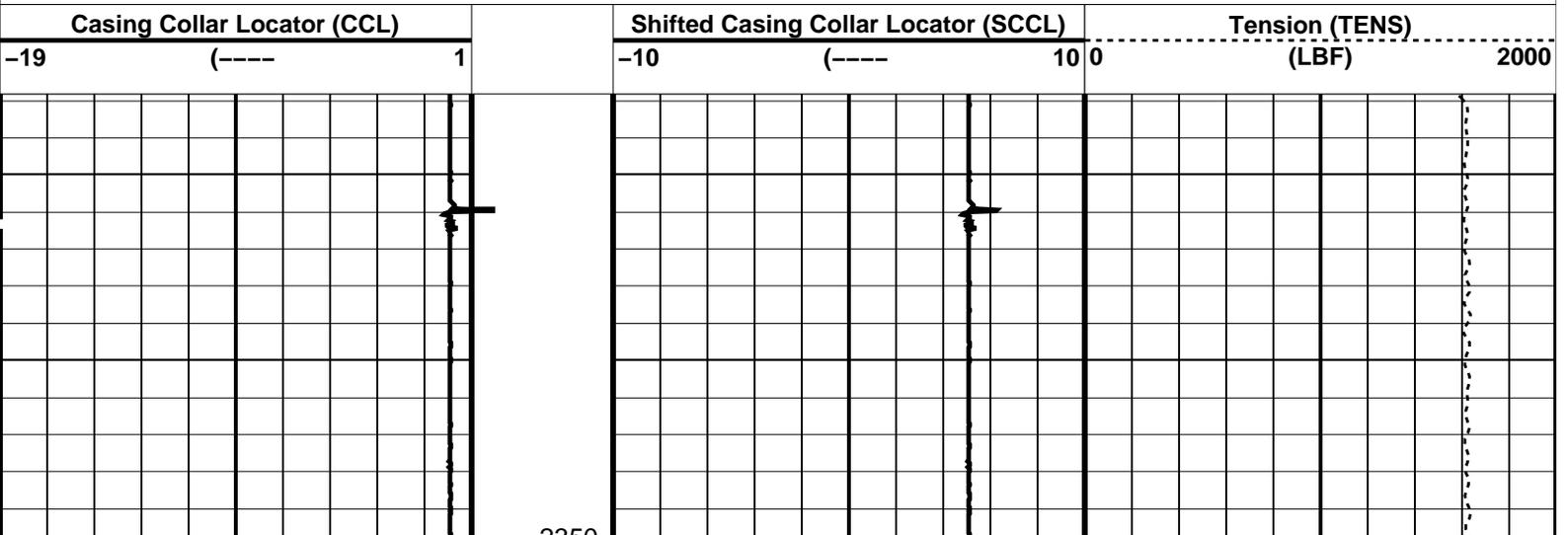
MCM

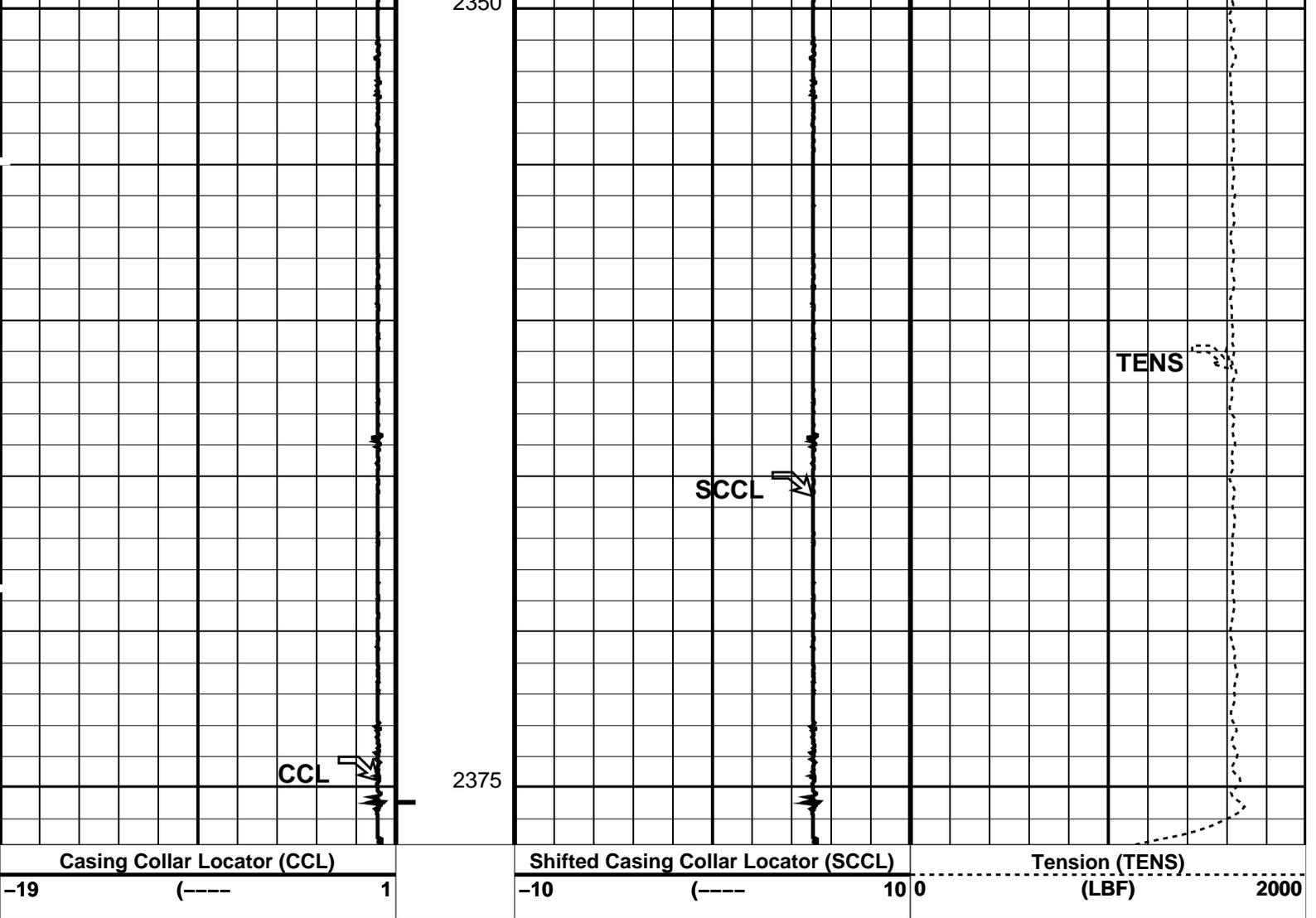
MPEX-EA_S	SRC-2820-ASFS-WPP_1	MPSU-CA	SRC-2820-ASFS-WPP_1
CCL-L	13C0-300		

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-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: 31-Oct-2005 11:41

OP System Version: 13C0-300
MCM

MPEX-EA_S SRC-2820-ASFS-WPP_t MPSU-CA SRC-2820-ASFS-WPP_t
CCL-L 13C0-300

Output DLIS Files

DEFAULT CCL_024LUP FN:23 PRODUCER 31-Oct-2005 11:41

Company: ExxonMobil

Schlumberger

Well: TNA A-12

Field: Tuna

Rig: Prod 4

Country: Australia

2 1/8" Enerjet Gun
7 " MPBT Plug
Dump Bailer Record