

Company: Ezzo Australia Pty Ltd.

Well: TNA A-15a

Field: Tuna

Rig: Crane / Prod2 Country: Australia

2-1/8" Powerjet / MPBT
Perforation and Plug Setting Record
27-Jun-2008

Rig: Crane / Prod2
Field: Tuna
Location: Gippsland
Well: TNA A-15a
Company: Ezzo Australia Pty Ltd.

LOCATION			
Gippsland Basin Bass Strait		Elev.: K.B. 32.9 m G.L. -59 m D.F. 32.9 m	
Permanent Datum:	M.S.L.	Elev.: 0 m	
Log Measured From:	R.T.	32.9 m	above Perm. Datum
Drilling Measured From:	R.T.		

State: Victoria	Max. Well Deviation 61 deg	Longitude 148 25' 06.5" E	Latitude 038 10' 16.5" S
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Logging Date 27-Jun-2008

Run Number 1 to 5

Depth Driller 3283 m

Schlumberger Depth 3045.7 m

Bottom Log Interval 3043 m

Top Log Interval 3039 m

Casing Fluid Type Production Fluids

Salinity

Density

Fluid Level

BIT/CASING/TUBING STRING

Bit Size 8.500 in

From 555 m

To 3283 m

Casing/Tubing Size 7.000 in

Weight 26 lbm/ft

Grade L-80

From 13.34 m

To 3273 m

Maximum Recorded Temperatures

Logger On Bottom 27-Jun-2008 23:30

Unit Number 3827 Location AUSL / Prod 2

Recorded By O Darby / R Sani

Witnessed By J Dean / B Robinson

Oil Density

Water Salinity

Gas Gravity

Bo

Bw

1/Bg

Bubble Point Pressure

Bubble Point Temperature

Solution GOR

Maximum Deviation

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 27-Jun-2008 23:30

Unit Number 3827 Location AUSL / Prod 2

Recorded By O Darby / R Sani

Witnessed By J Dean / B Robinson

DEPTH SUMMARY LISTING

Date Created: 18-JUN-2008 3:25:44

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-H Serial Number: 794 Calibration Date: 8-Nov-2007 Calibrator Serial Number: 1009 Calibration Cable Type: 2-32ZT Wheel Correction 1: -6 Wheel Correction 2: -2	Type: CMTD-B/A Serial Number: 1711 Calibration Date: 8-Jun-2008 Calibrator Serial Number: 1173 Calibration Gain: 1.01 Calibration Offset: 272.27	Type: 2-32ZT Serial Number: 24187 Length: 5900.01 M Conveyance Method: Wireline Rig Type: Offshore_Fixed

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	ExxonMobil TNA A-15a Petrophysical Analysis
Reference Log Date:	22-Nov-2004

Depth Control Remarks

1. Log correlated to ExxonMobil Solar Composite Log dated 22-Nov-2004.
2. IDW used as primary depth control.
3. Z-Chart used as secondary depth control.

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.

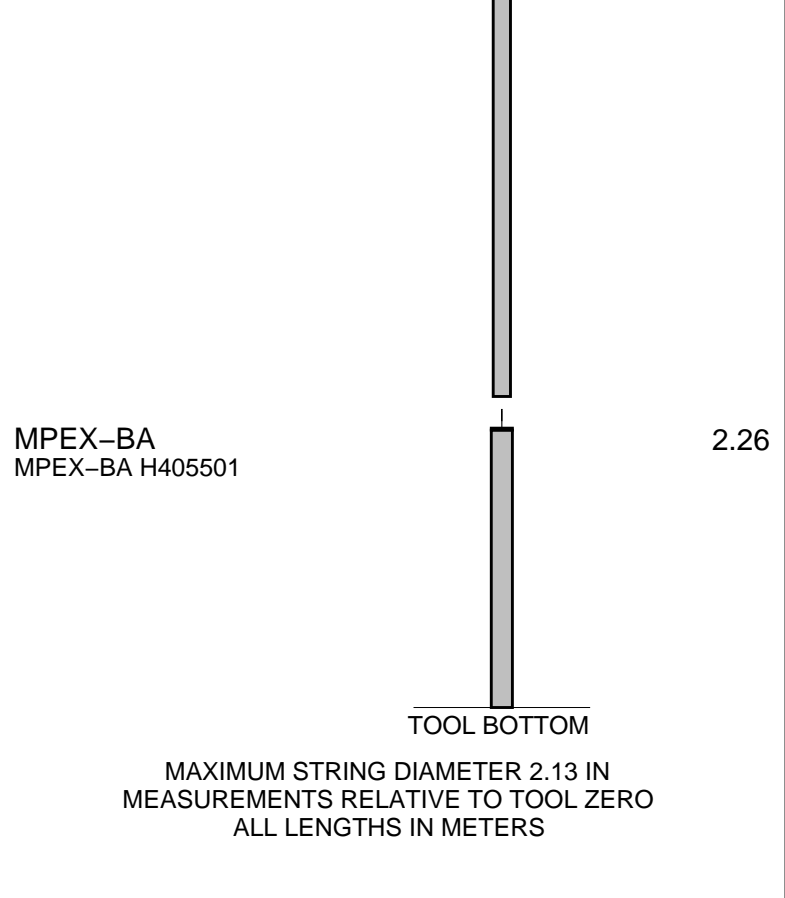
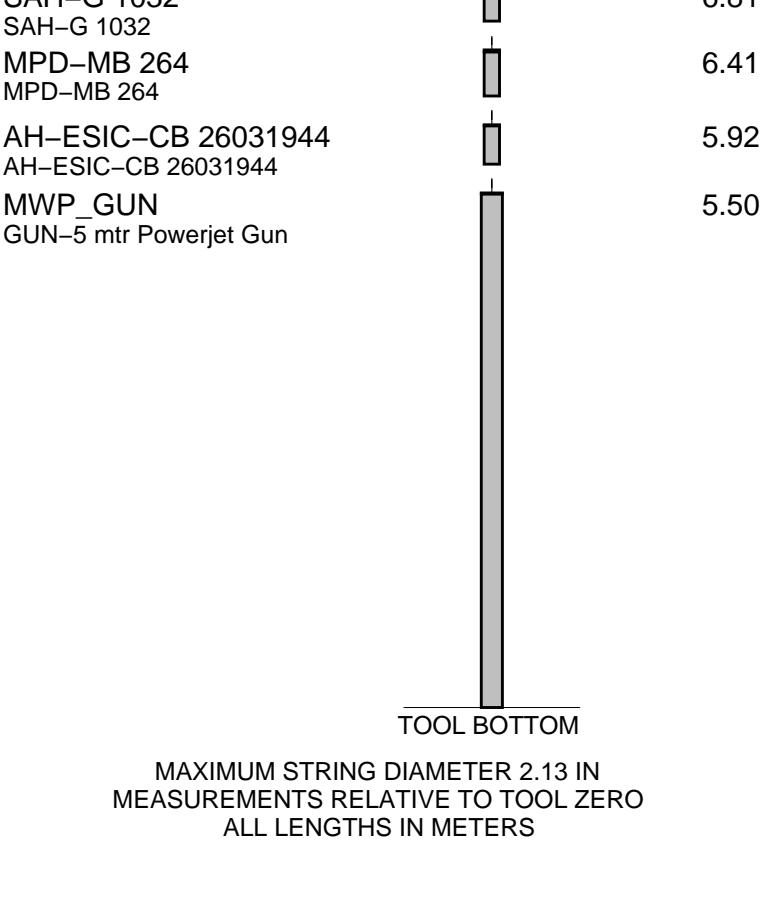
OTHER SERVICES1
OS1: MWP
OS2: GR-CH
OS3: DB-TT

REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil Solar Composite Log dated 22-Nov-2004.
Maximum well deviation of 61 deg at 2340.0m MDKB.
Objective: To perforate interval 3039.0m to 3043.0m MDKB. Set a MPBT plug at 3045.7m MDKB and dump cement above to isolate the existing perforation at 3048.0m to 3054.0m MDKB.

Run #1: RIH Dummy 2-1/8" MPBT plug with GR-CCL. Tagged HUD @ 3048.5m MDKB.
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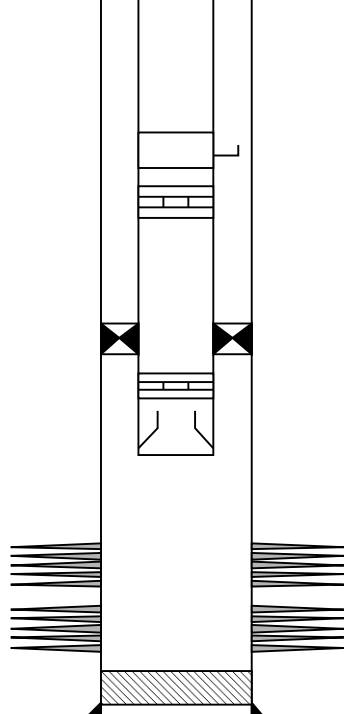
CCL
Tachometer
Cable Cur
Head Volt
Tension

TOOL ZERO 8.96



Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Tubing Hanger	3.500 6.276	2.992	12.2 12.2		13.3 13.3 14.4	7.000 13.375 13.375	57.000	Casing String Liner Hanger Casing String
SSSV	3.500		447.6		550.0	13.375		Casing Shoe
Side Pocket Mandrel	3.500		1278.2					

Side Pocket Mandrel	3.500	2340.0
Landing Nipple	3.500	2356.7
Packer	7.000	2546.7
No Go Nipple	3.500	2550.2
Re-EntryGuide	3.500	2564.3
Tubing Bottom	3.500	2564.5



3043.0	
3039.0	
3048.0	
3054.0	
3186.0	
3273.0	7.000

New Perforation Zone

Existing Perforation Zone

PBDT
Casing Shoe



Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Log Pass (up)	27-Jun-2008 23:25	000:31	3056.8 - 2534.3	PERFO_047LUP
Log Pass (up)	28-Jun-2008 5:48	000:08	3039.8 - 2952.6	PERFO_064LUP
Log Pass (up)	28-Jun-2008 6:04	000:35	3039.8 - 2948.0	PERFO_065LUP
Station Log	28-Jun-2008 6:06	000:23	3034.7 - 3.5	PERFO_066LTP
Log Pass (up)	28-Jun-2008 11:33	000:06	3030.5 - 2919.4	MPBT_092LUP
Simulated Log	28-Jun-2008 11:47	000:20		MPBT_096LUP
Log Pass (up)	28-Jun-2008 12:11	000:07	3038.6 - 2918.9	MPBT_100LUP
Log Pass (up)	28-Jun-2008 17:22	000:12	3035.8 - 2921.5	PERFO_107LUP
Log Pass (up)	29-Jun-2008 0:18	000:13	3038.2 - 2918.8	PERFO_116LUP



2-1/8" Dump Bailer
Cement Dump Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: TNA A-15a

Output DLIS Files

DEFAULT PERFO_116LUP FN:113 PRODUCER 29-Jun-2008 00:18 3038.2 M 2918.8 M

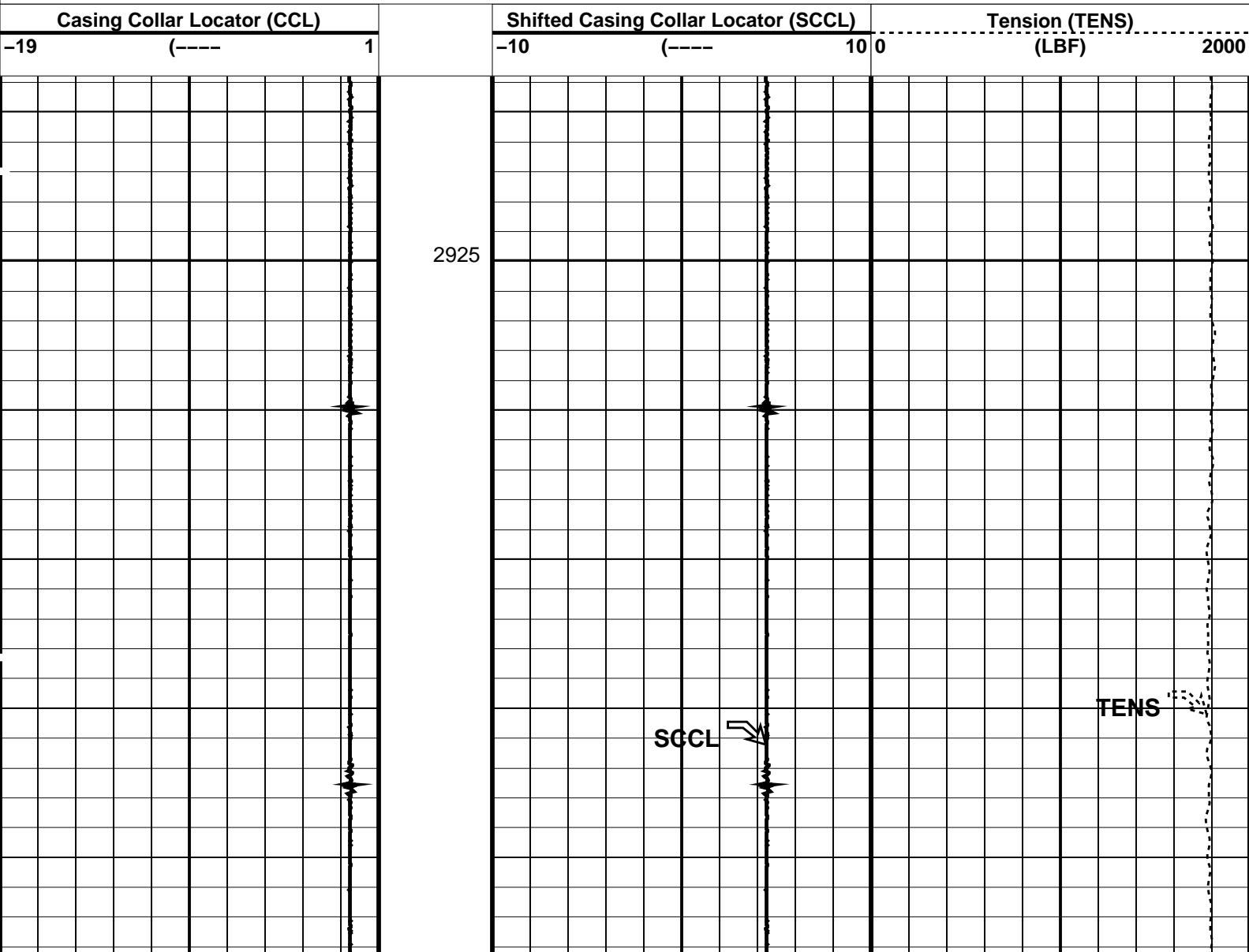
OP System Version: 15C0-309
MCM

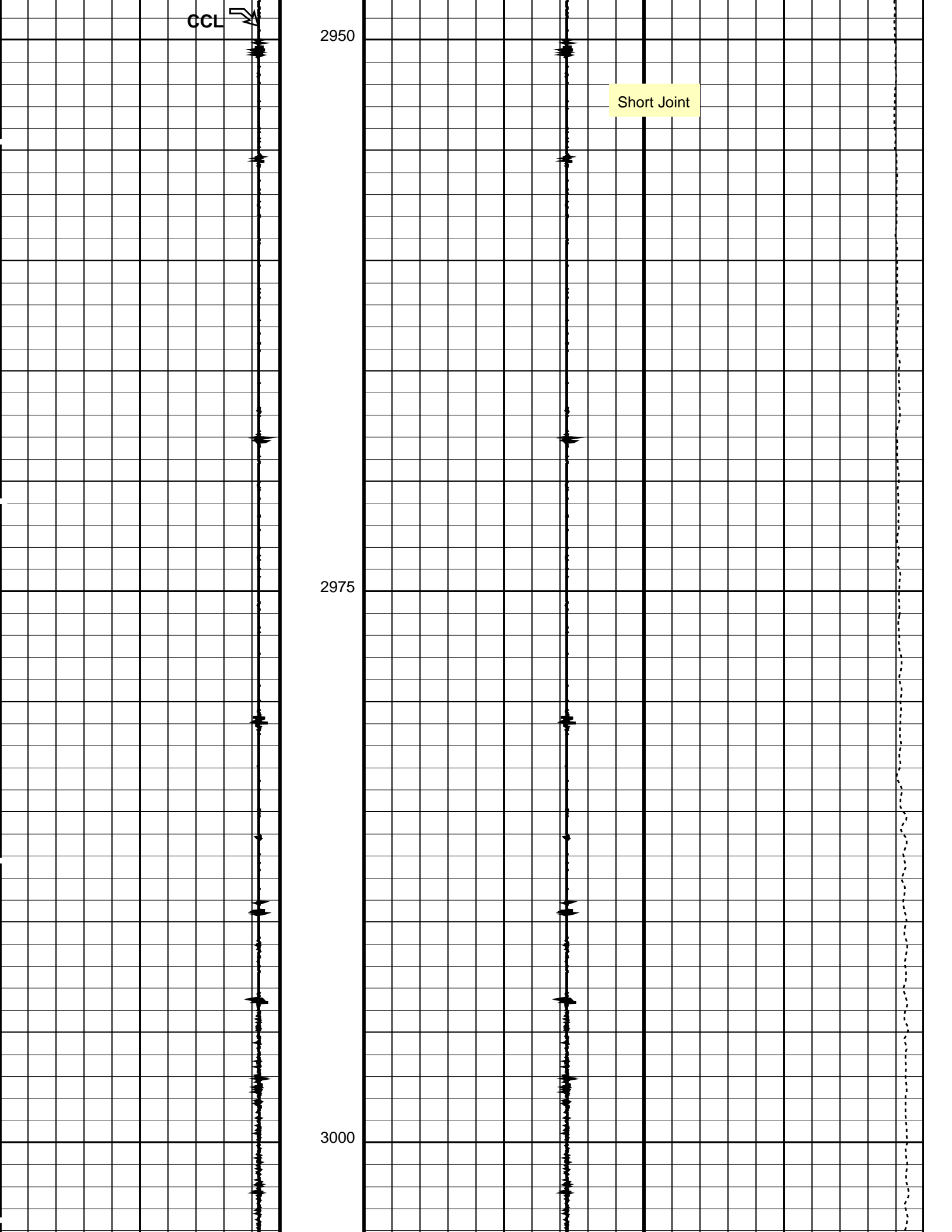
CCL-LA 15C0-309 SHM_GUN SRPC-3582-Q1_2008_OP15

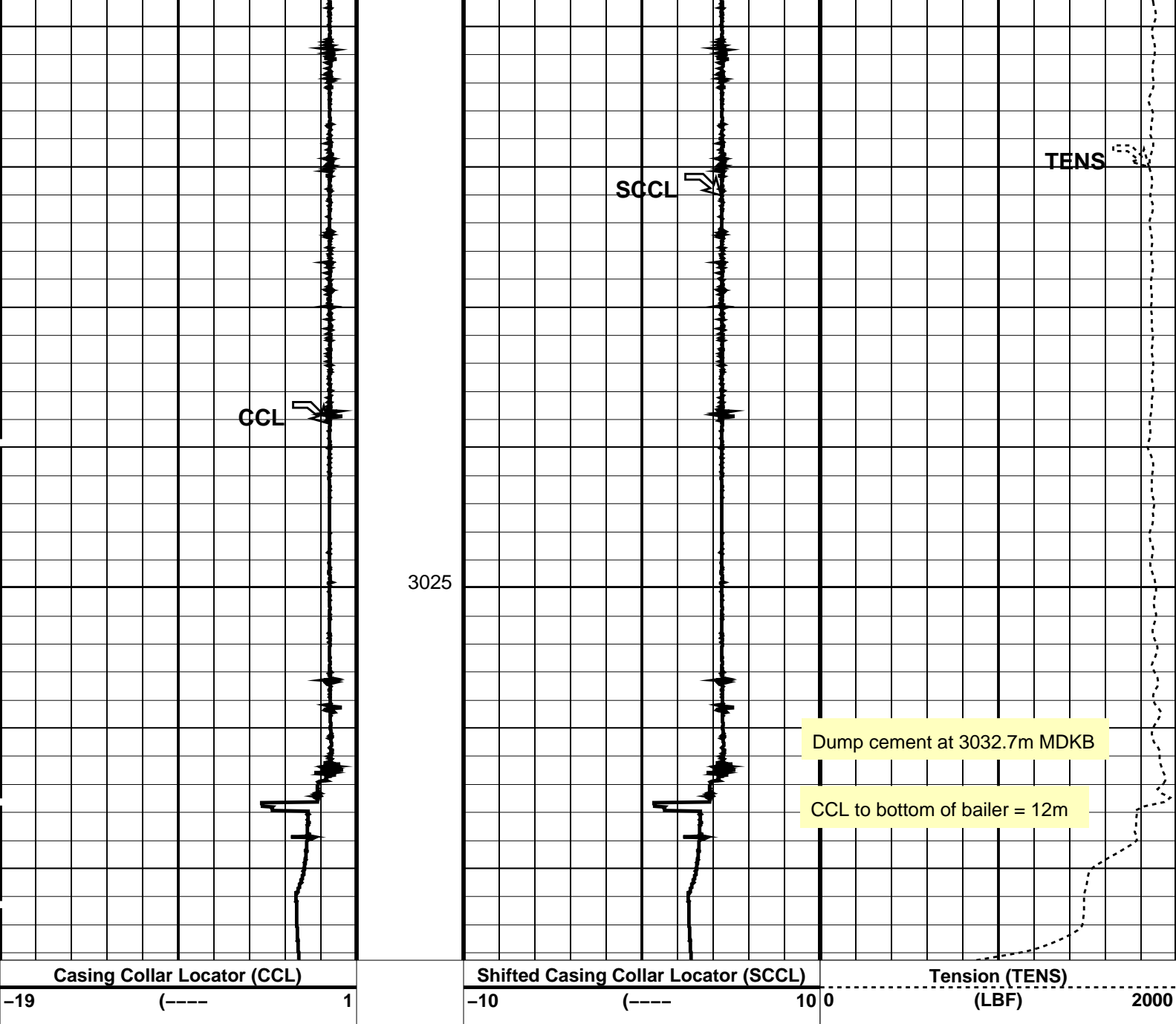
PIP SUMMARY

Casing Collars

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

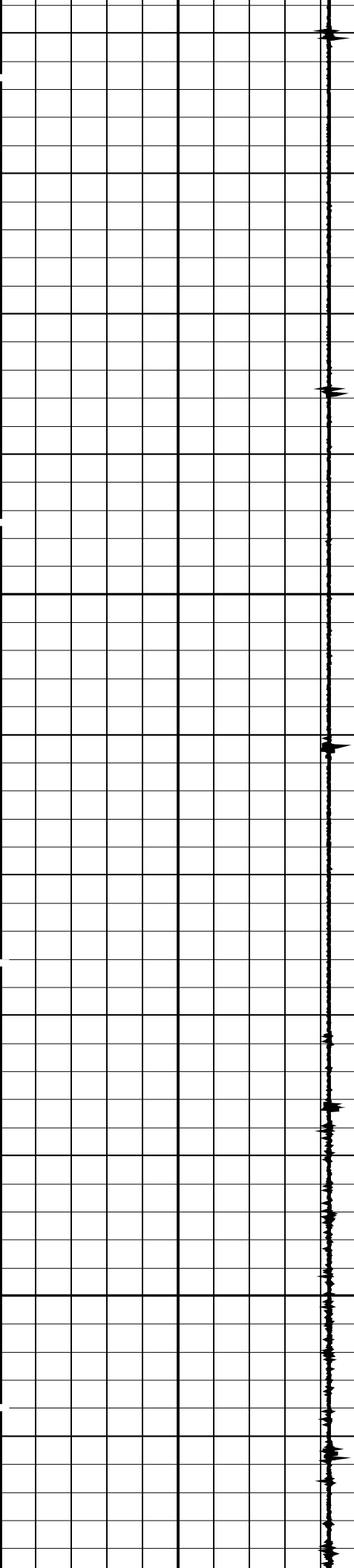
Casing Collars

Parameters		
DLIS Name	Description	Value
CCLD	CCL-LA: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 29-Jun-2008 00:18

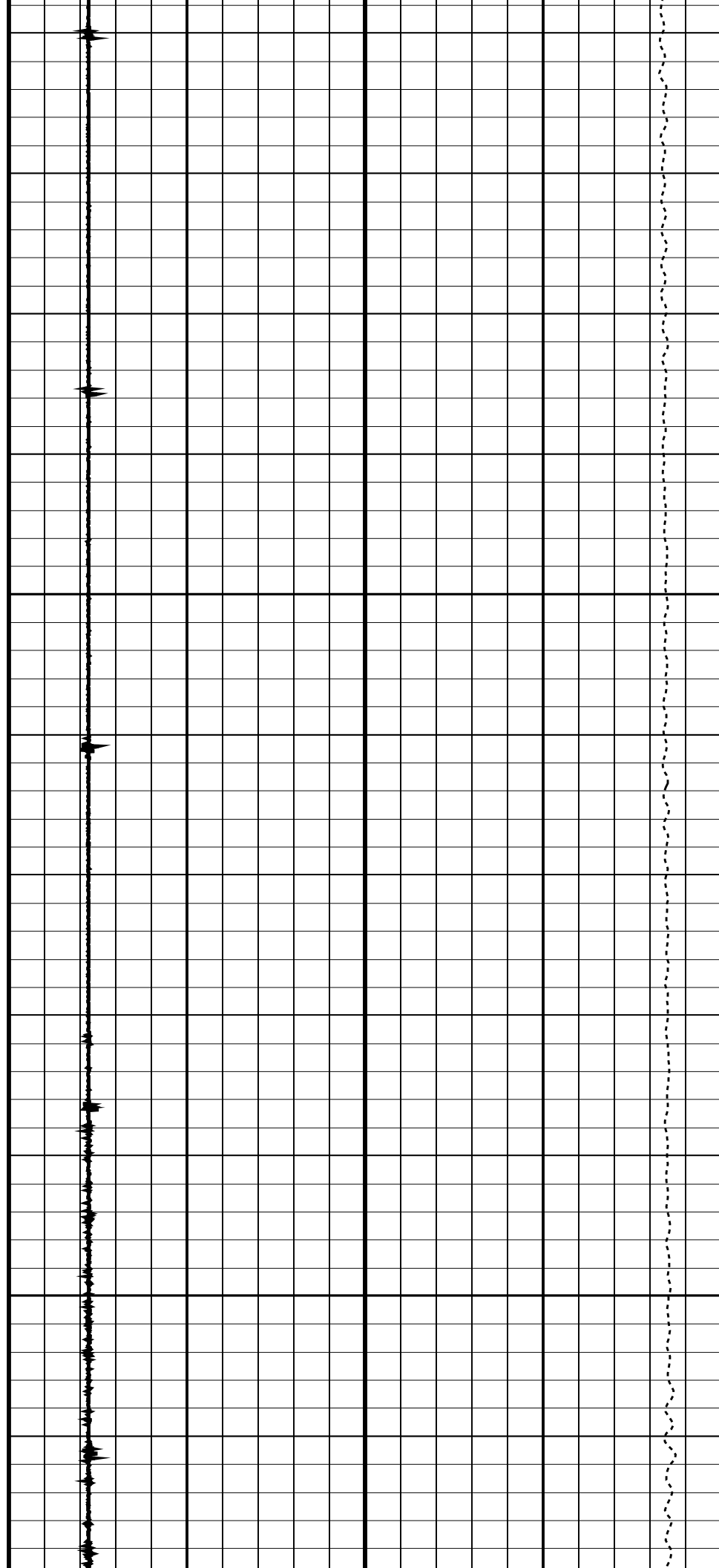
OP System Version: 15C0-309			
MCM			
CCL-LA	15C0-309	SHM_GUN	SRPC-3582-Q1_2008_OP15

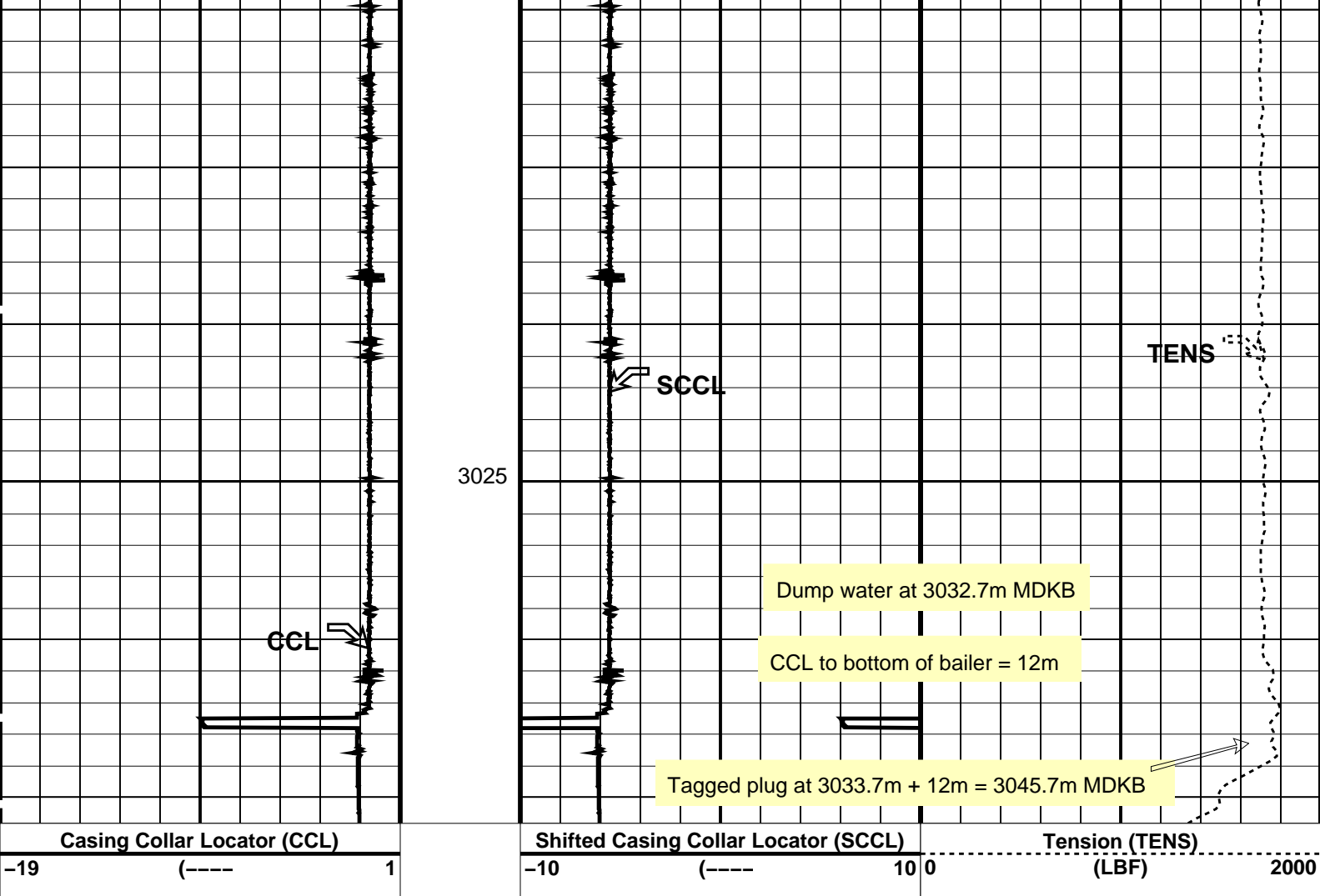
Output DLIS Files			
DEFAULT	PERFO_116LUP	FN:113 PRODUCER	29-Jun-2008 00:18



2975

3000





PIP SUMMARY

← Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCL-LA	Casing Collar Locator	
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 28-Jun-2008 17:22

OP System Version: 15C0-309

MCM

CCL-LA 15C0-309 SHM_GUN SRPC-3582-Q1_2008_OP15

Output DLIS Files

DEFAULT PERFO_107LUP FN:104 PRODUCER 28-Jun-2008 17:22

Schlumberger

MPBT
Log Out of Position

Output DLIS Files

DEFAULTMPBT_100LUPFN:97PRODUCER28-Jun-2008 12:11

OP System Version: 15C0-309

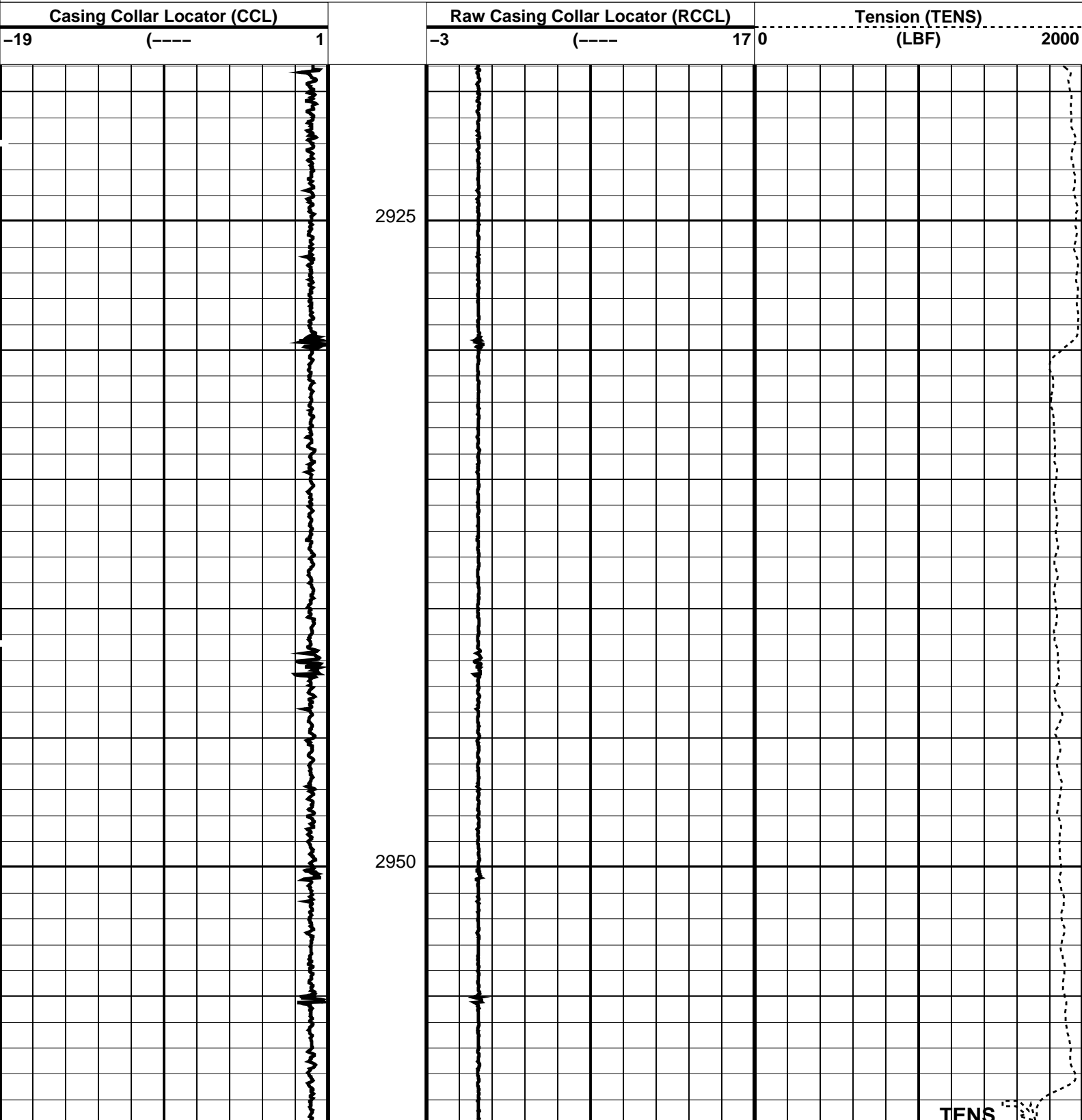
MCM

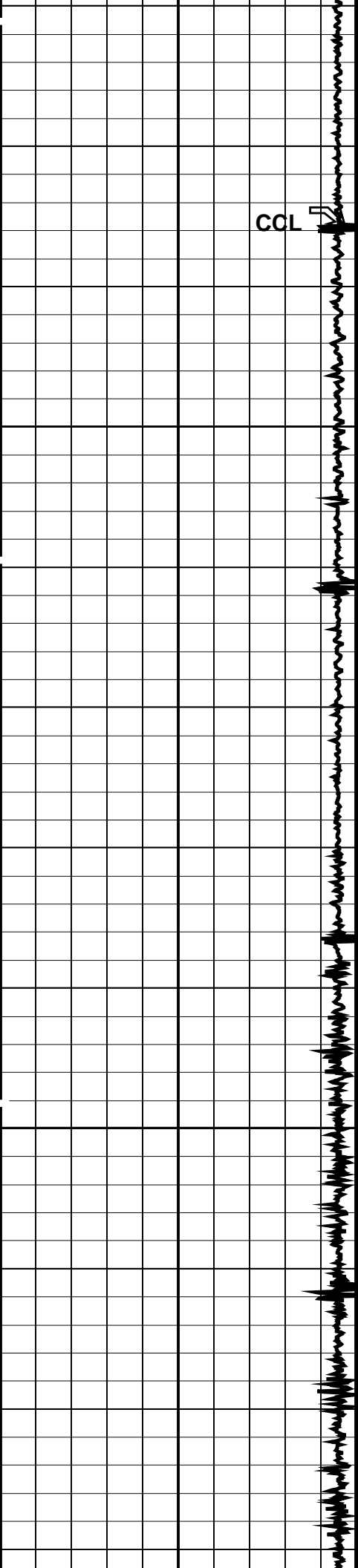
MPEX-BA SRPC-3582-Q1_2008_OP15 MPSU-BA SRPC-3582-Q1_2008_OP15

CCL-LA 15C0-309

PIP SUMMARY

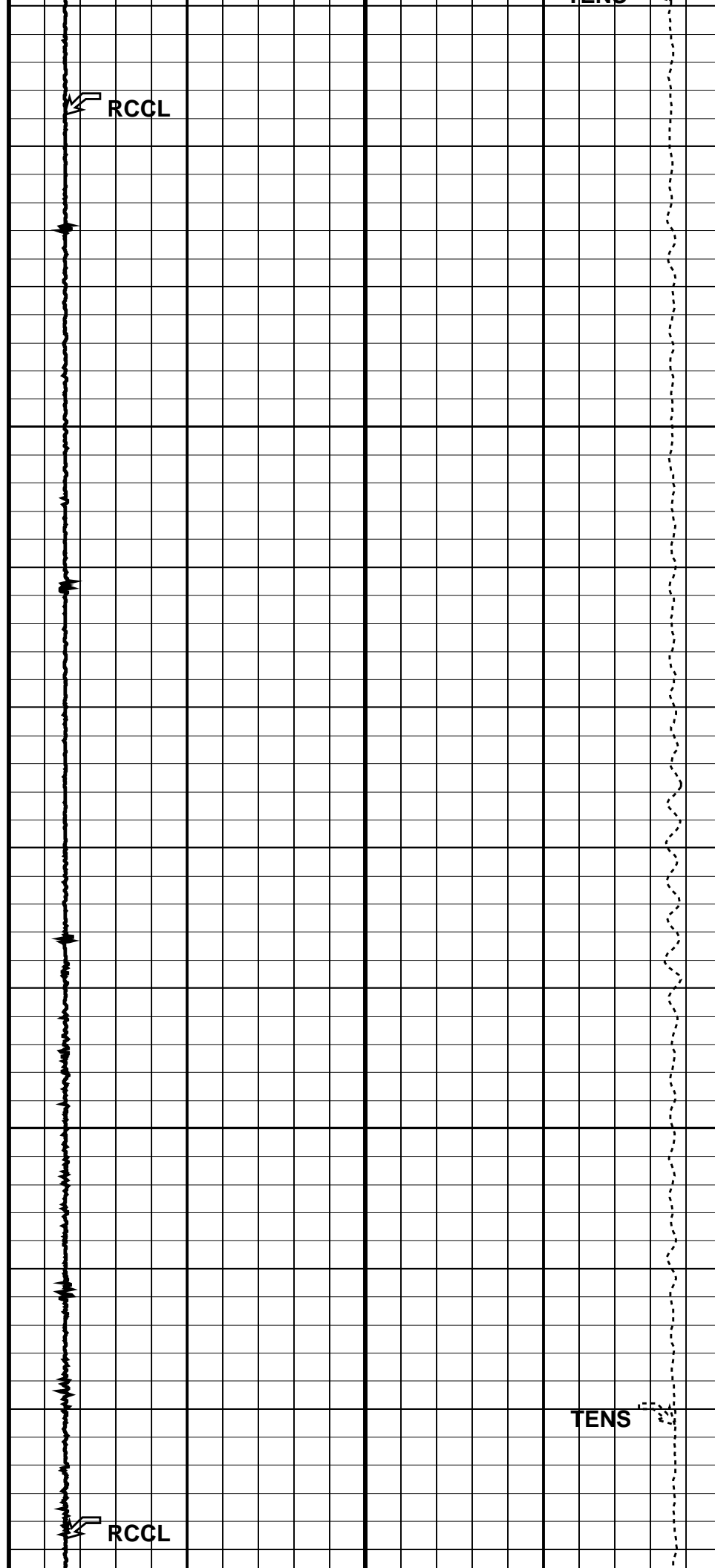
☒ Time Mark Every 60 S

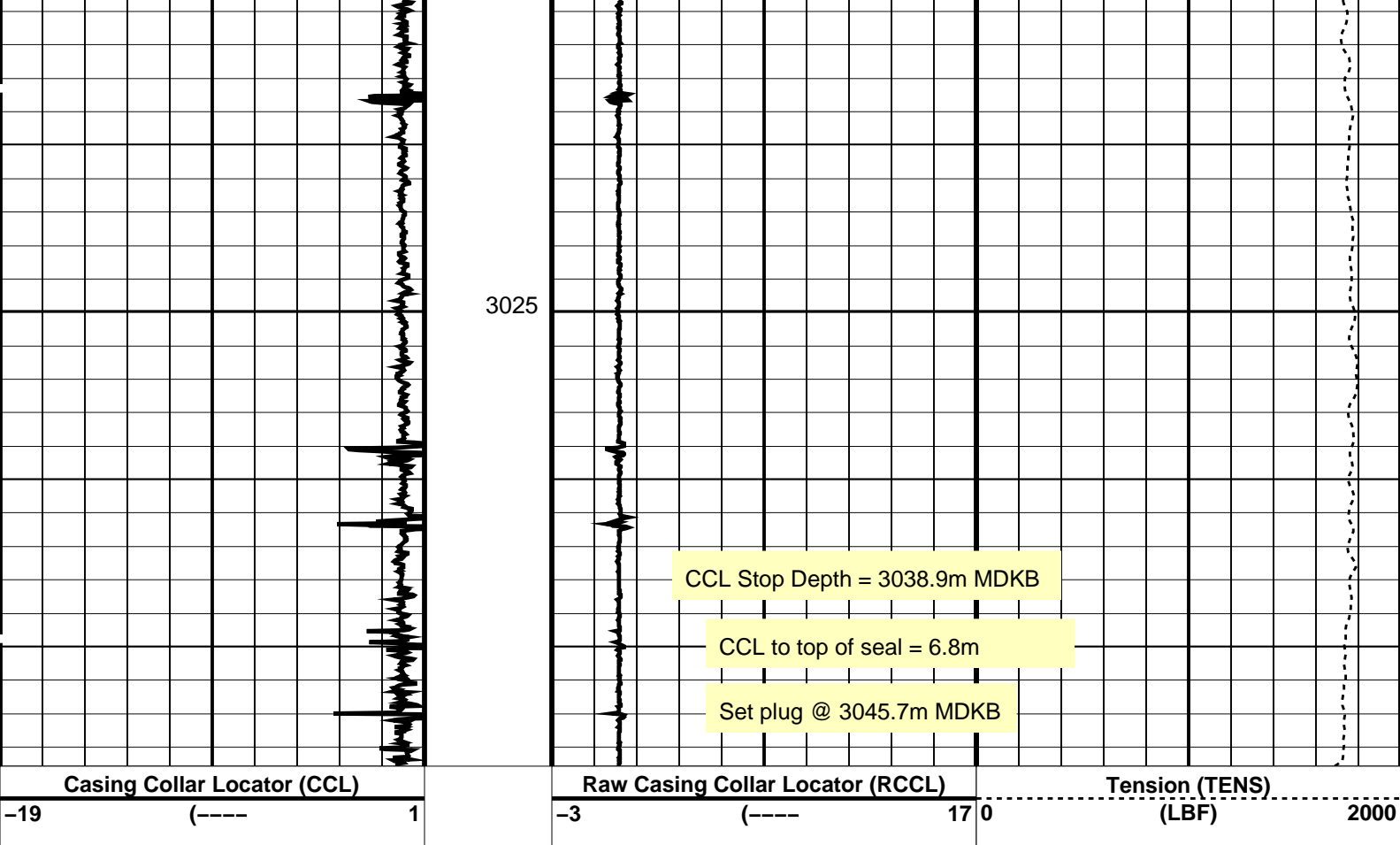




2975

3000





PIP SUMMARY			
Time Mark Every 60 S			
Parameters			
DLIS Name		Description	Value
CCL-LA: Casing Collar Locator			
CCLD		CCL reset delay	12 IN
CCLT		CCL Detection Level	0.3 V
Format: CCLLog		Vertical Scale: 1:200	Graphics File Created: 28-Jun-2008 12:11
OP System Version: 15C0-309			
MCM			
MPEX-BA	SRPC-3582-Q1_2008_OP15	MPSU-BA	SRPC-3582-Q1_2008_OP15
CCL-LA	15C0-309		
Output DLIS Files			
DEFAULT	MPBT_100LUP	FN:97	PRODUCER 28-Jun-2008 12:11

Schlumberger

MPBT Setting Record

MAXIS Field Log

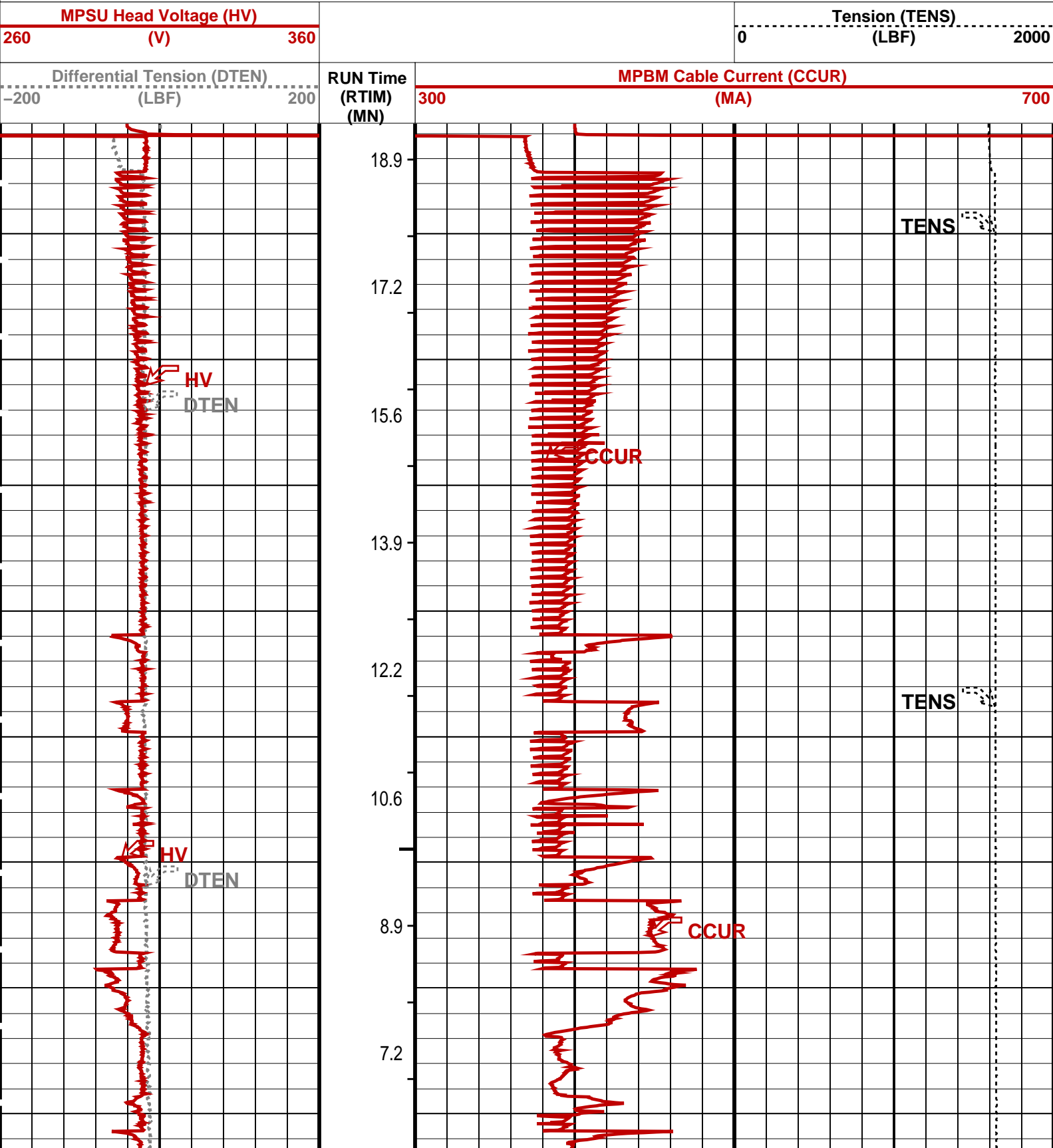
OP System Version: 15C0-309
MCM

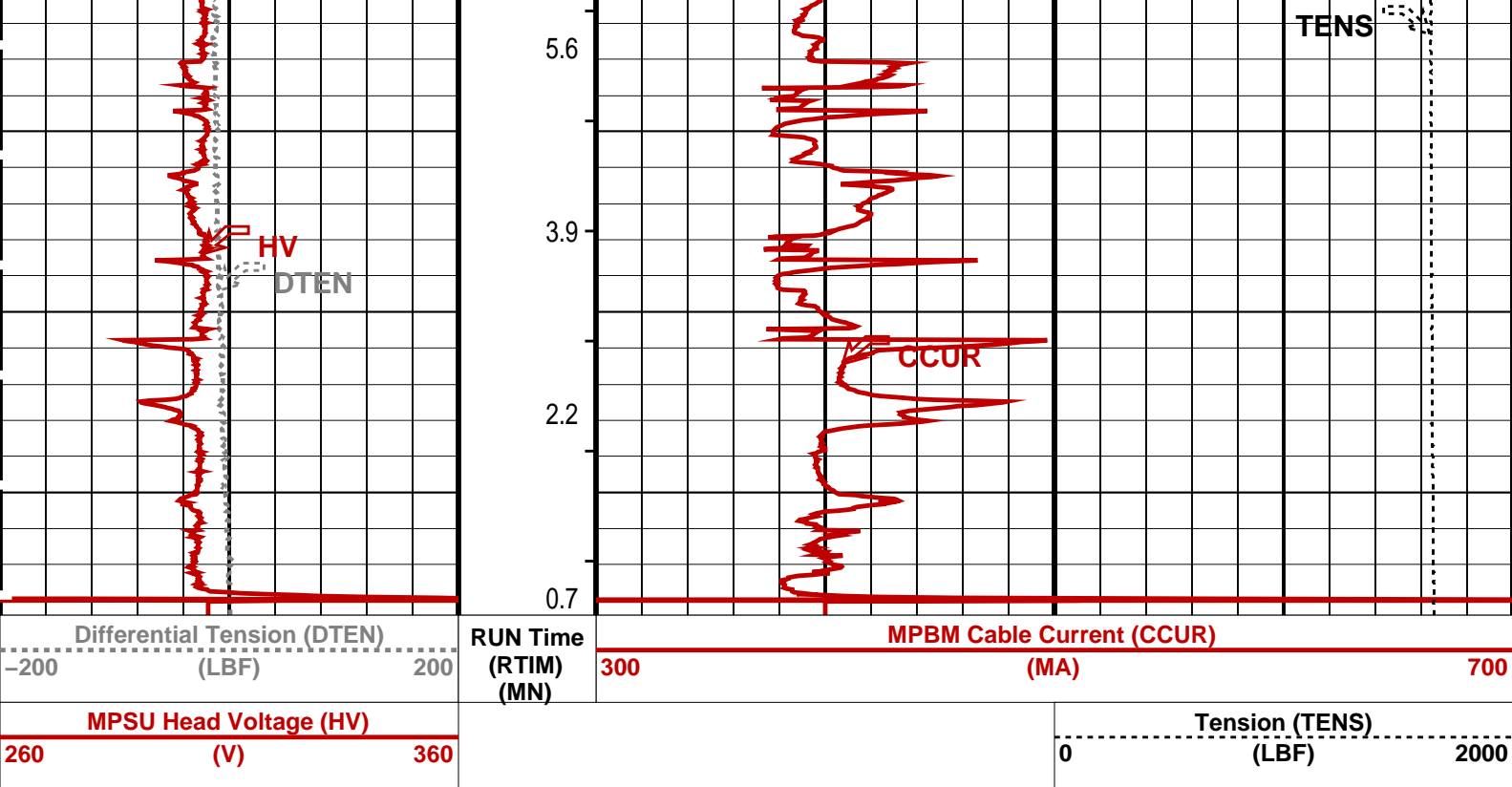
MPEX-BA SRPC-3582-Q1_2008_OP15 MPSU-BA SRPC-3582-Q1_2008_OP15
CCL-LA 15C0-309

PIP SUMMARY

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

Time Mark Every 60 S





PIP SUMMARY

→ MPSU Run Time Every 1 MN
→ MPSU Run Time Every 10 MN

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
MPSU-BA: MECHANICAL PLUGBACK SETTING UNIT IPUMP	Intensifier Pump	TRUE	
Format: MPBT_1	Vertical Scale: 1:1000	Graphics File Created: 28-Jun-2008 11:47	
OP System Version: 15C0-309 MCM			
MPEX-BA CCL-LA	SRPC-3582-Q1_2008_OP15 15C0-309	MPSU-BA	SRPC-3582-Q1_2008_OP15
Output DLIS Files			
DEFAULT	MPBT_096LUP	FN:93 PRODUCER	28-Jun-2008 11:47



MPBT
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: TNA A-15a

Output DLIS Files			
DEFAULT	MPBT_092LUP	FN:89 PRODUCER	28-Jun-2008 11:33

OP System Version: 15C0-309
MCM

MPEX-BA
CCL-LA

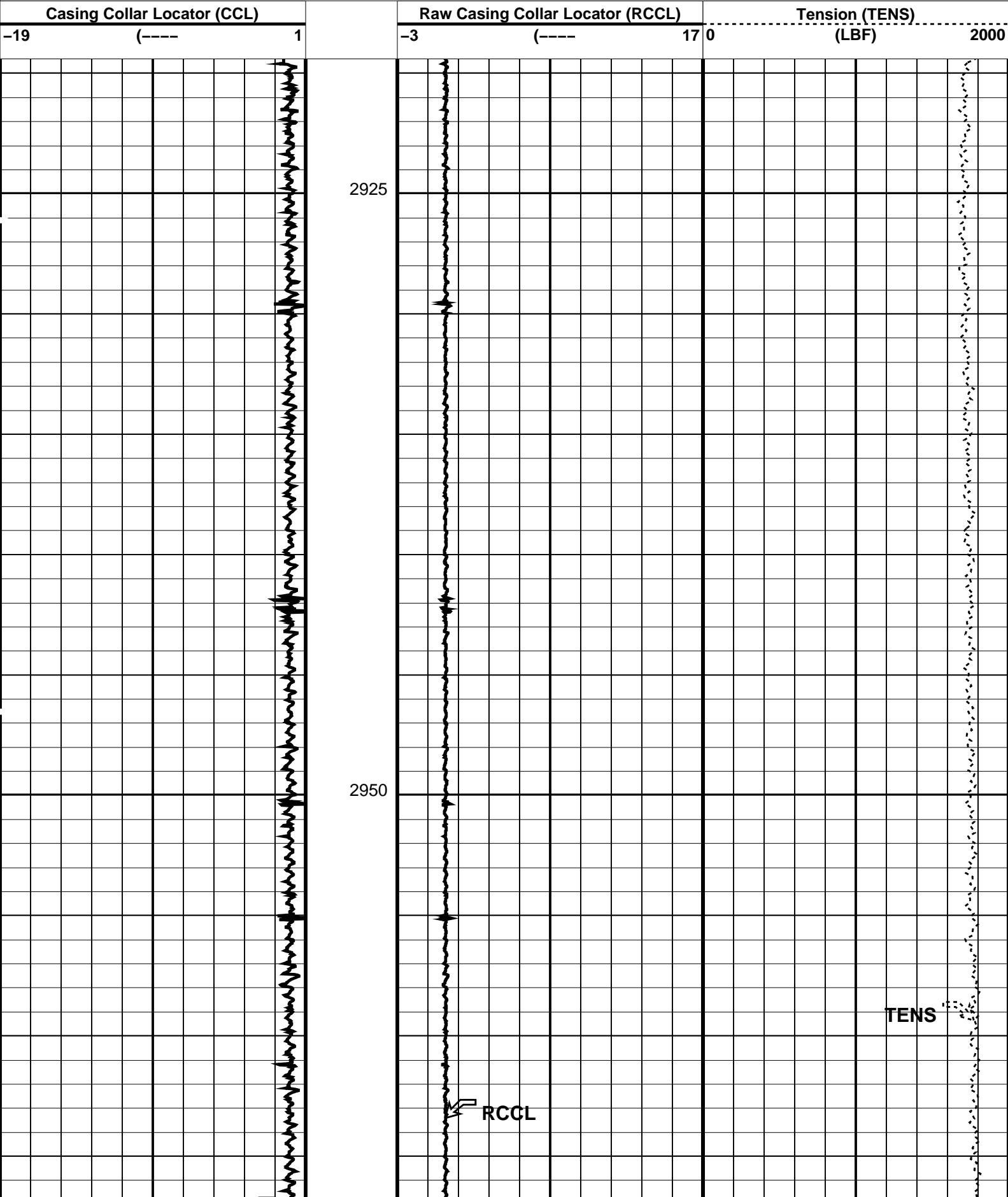
SRPC-3582-Q1_2008_OP15
15C0-309

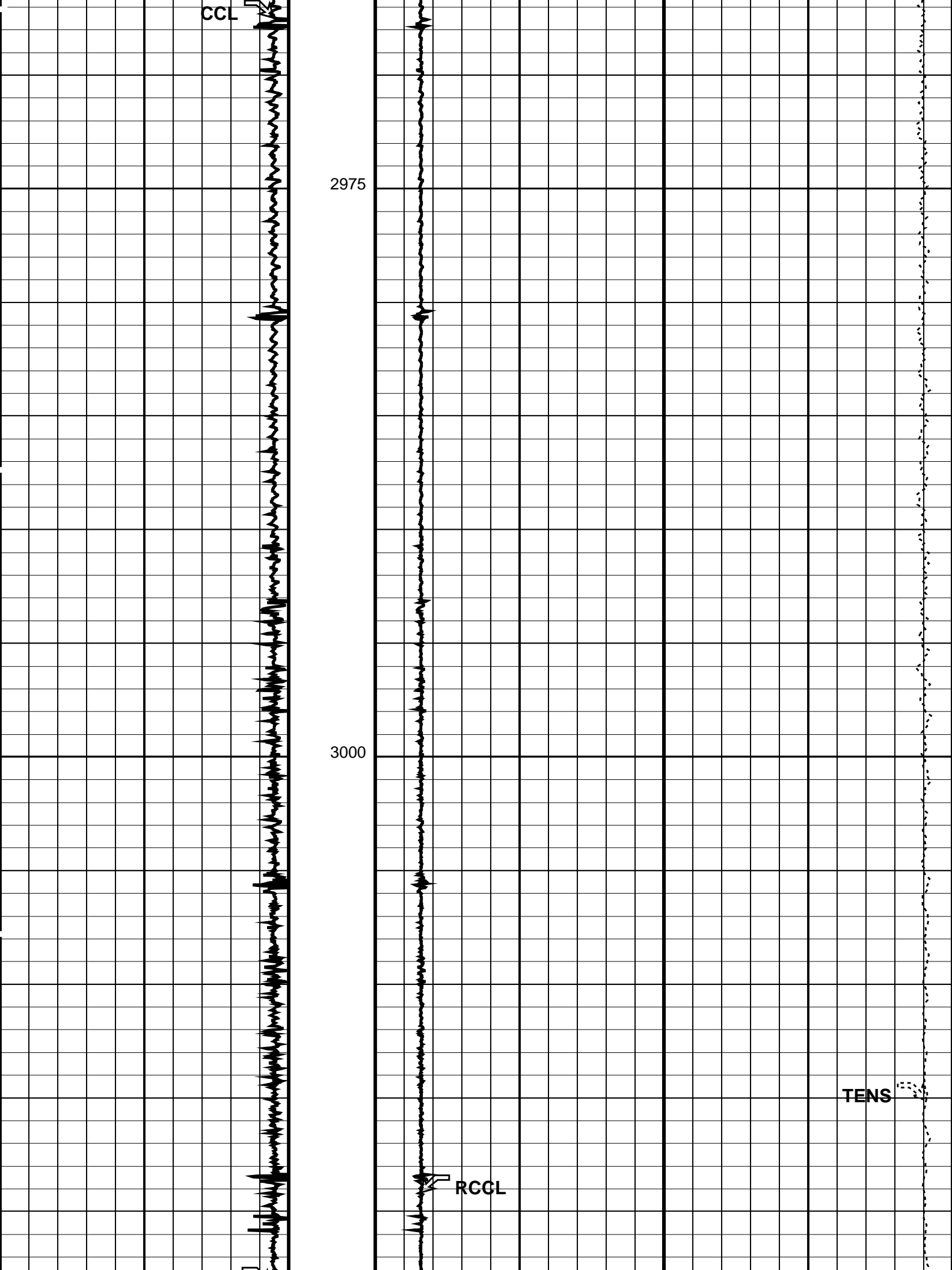
MPSU-BA

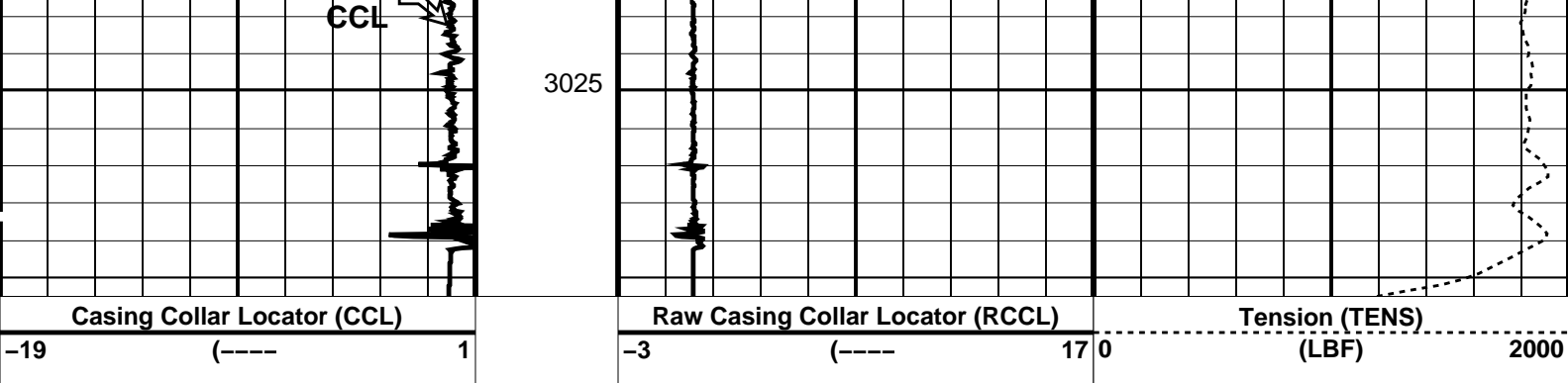
SRPC-3582-Q1_2008_OP15

PIP SUMMARY

Time Mark Every 60 S








PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
CCL-LA: Casing Collar Locator		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V
Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 28-Jun-2008 11:33		

OP System Version: 15C0-309			
MCM			
MPEX-BA	SRPC-3582-Q1_2008_OP15	MPSU-BA	SRPC-3582-Q1_2008_OP15
CCL-LA	15C0-309		

Output DLIS Files			
DEFAULT	MPBT_092LUP	FN:89 PRODUCER	28-Jun-2008 11:33



MPBT

WEG Correlation Pass

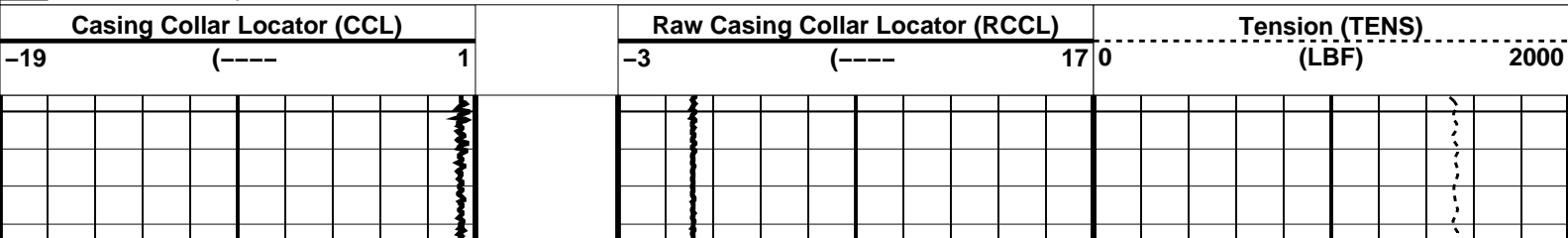
MAXIS Field Log

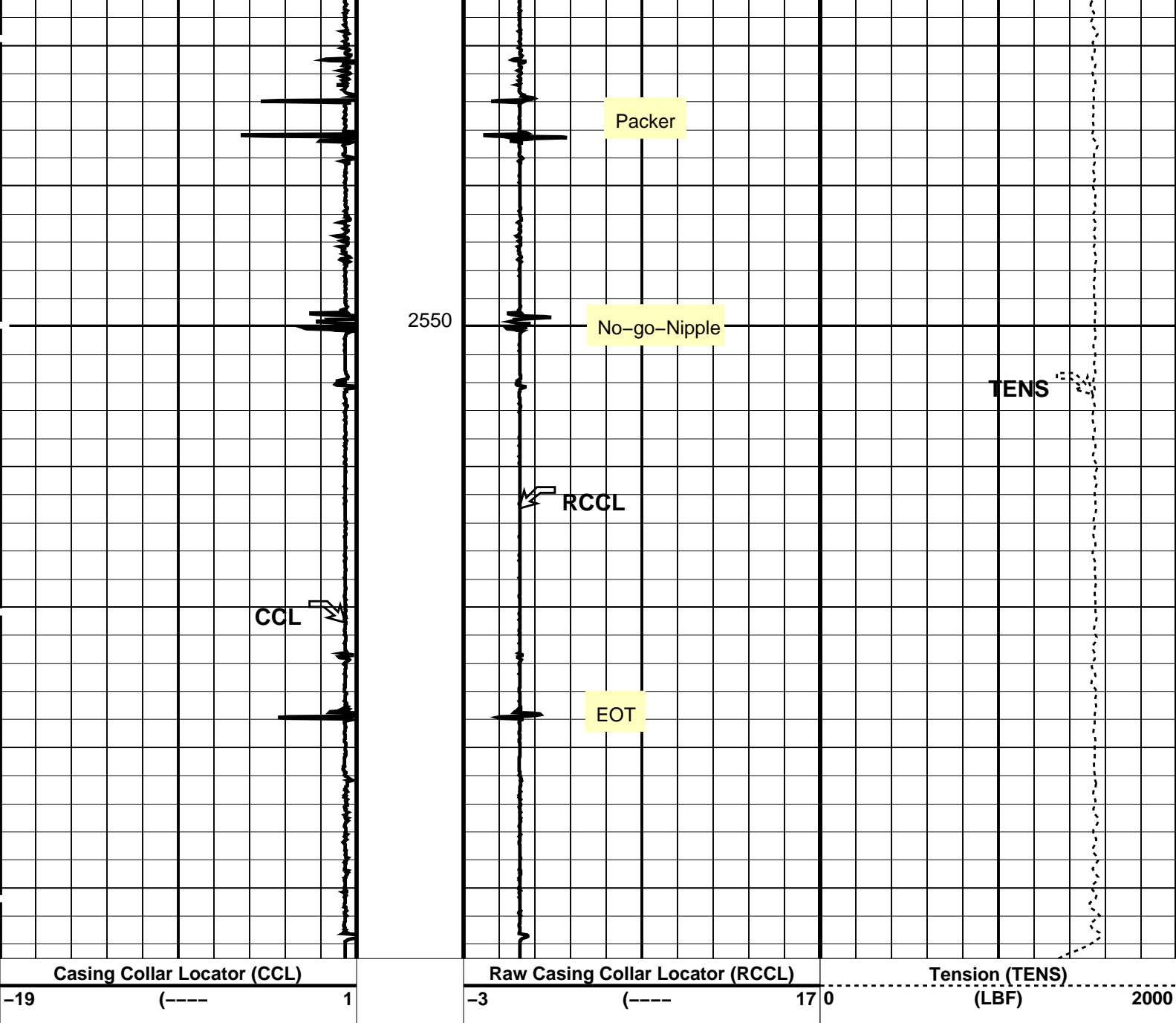
Company: Esso Australia Pty Ltd. Well: TNA A-15a

Output DLIS Files					
DEFAULT	MPBT_082LUP	FN:79	PRODUCER	28-Jun-2008 10:49	2572.5 M 2534.6 M
OP System Version: 15C0-309					
MCM					
MPEX-BA	SRPC-3582-Q1_2008_OP15	MPSU-BA	SRPC-3582-Q1_2008_OP15		
CCL-LA	15C0-309				

PIP SUMMARY

Time Mark Every 60 S





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCL-LA: Casing Collar Locator		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 28-Jun-2008 10:49

OP System Version: 15C0-309

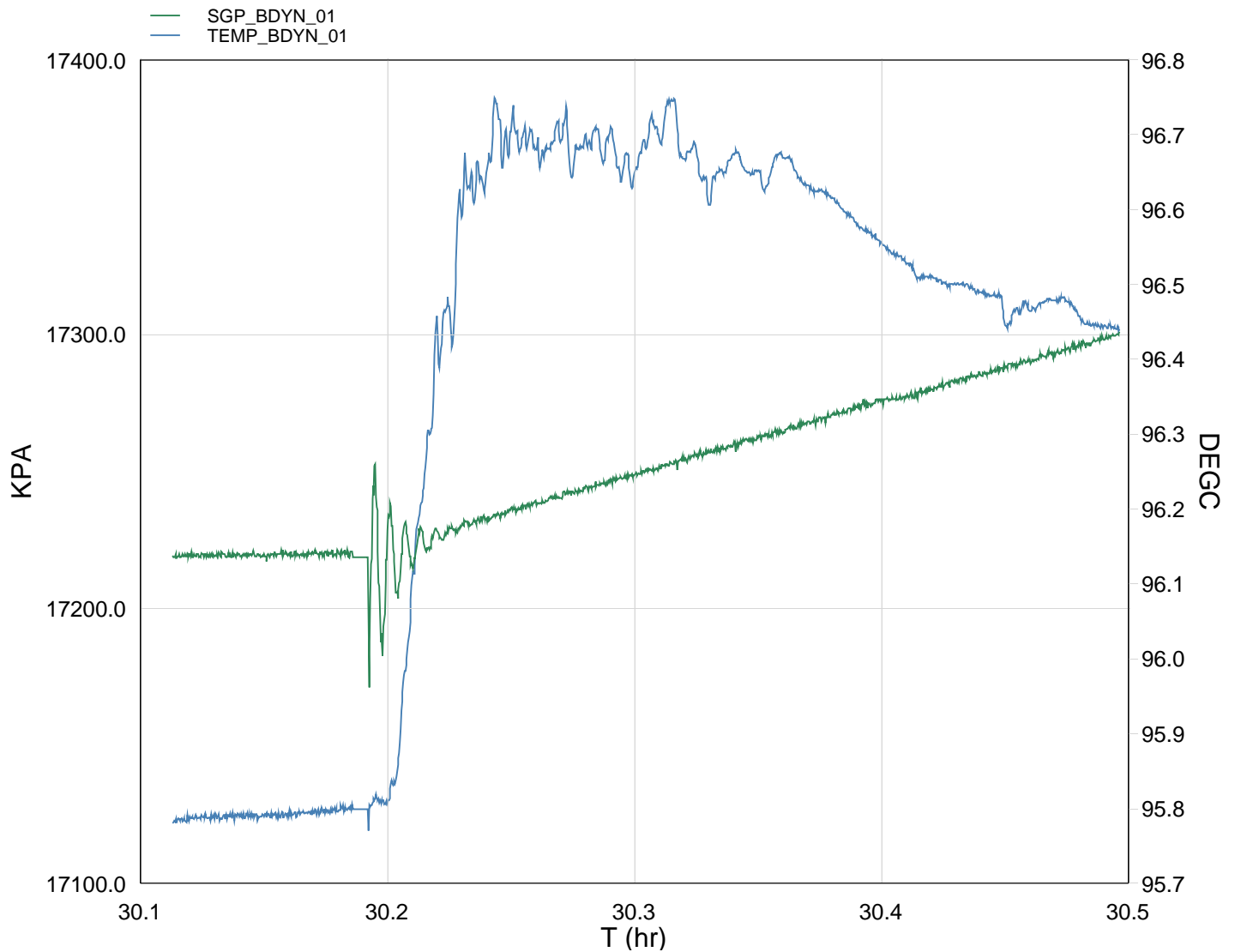
MCM

MPEX-BA	SRPC-3582-Q1_2008_OP15	MPSU-BA	SRPC-3582-Q1_2008_OP15
CCL-LA	15C0-309		

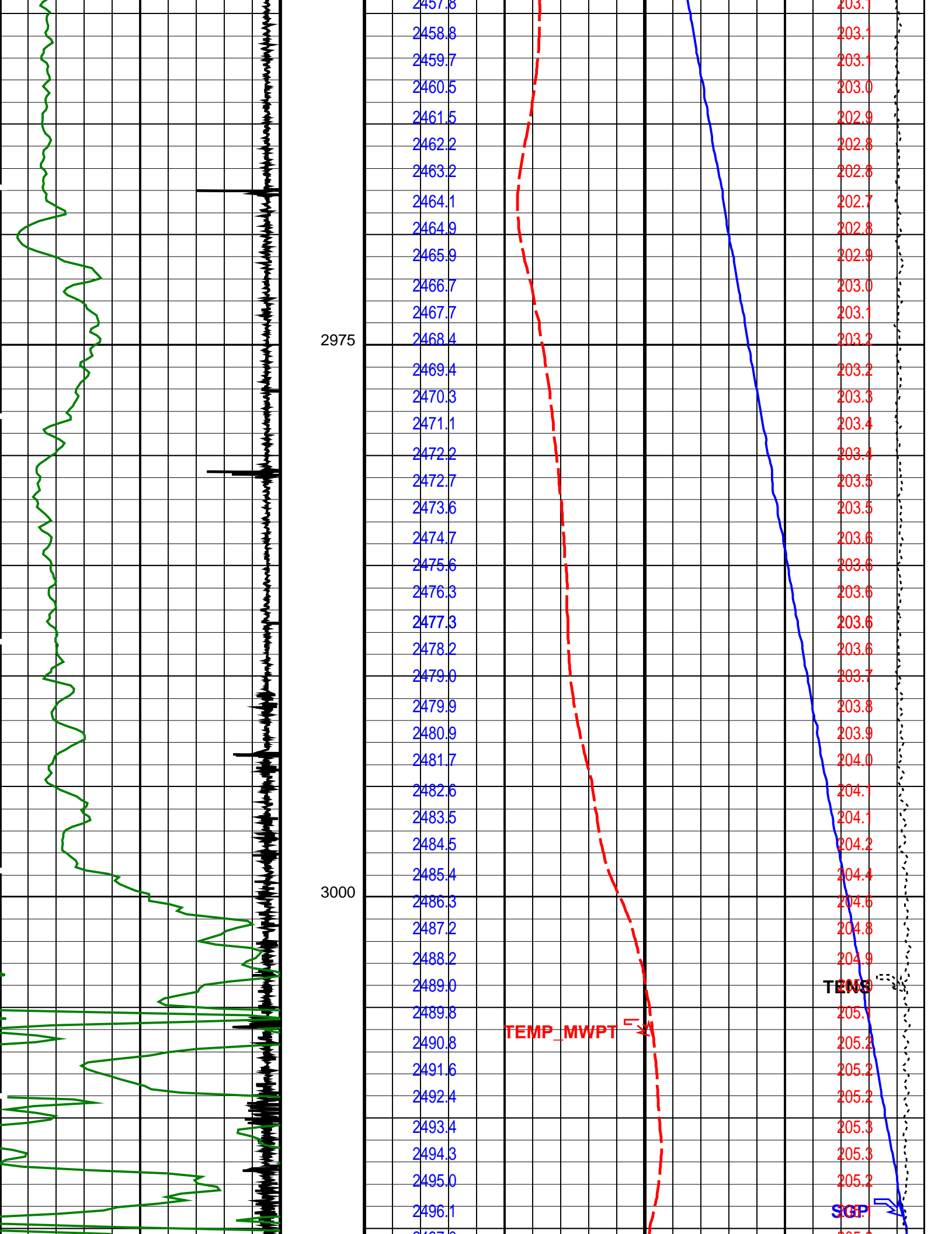
Output DLIS Files

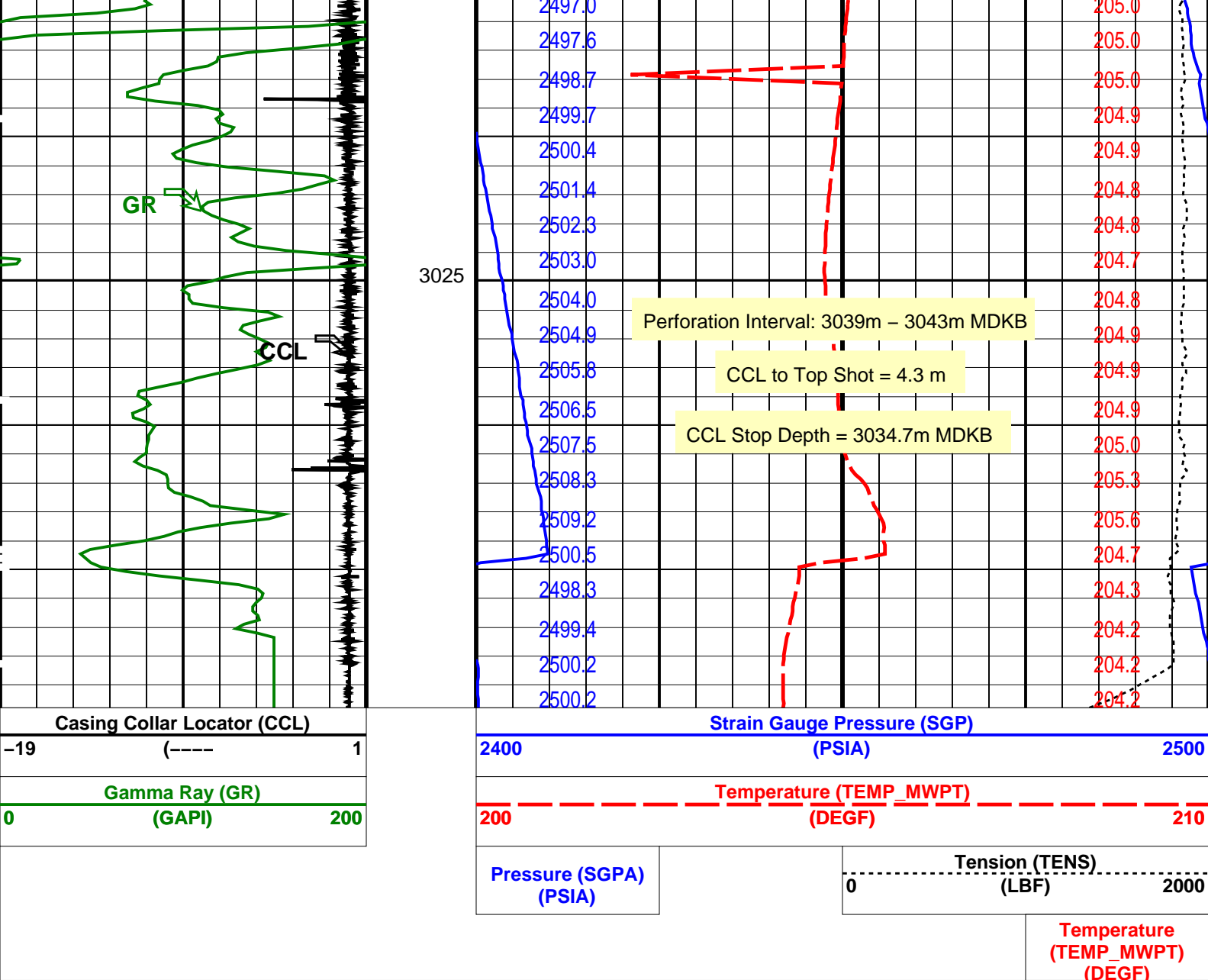
DEFAULT	MPBT_082LUP	FN:79	PRODUCER	28-Jun-2008 10:49
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MAXIS Field Log



TIME	PSIA	DEG F
5880.0	2497.4601	204.3992
5940.0	2497.5452	204.4156
6000.0	2497.5398	204.4185
6060.0	2497.4914	204.4233
6120.0	2497.5319	204.4373
6180.0	2502.4445	204.4612
6240.0	2497.6213	205.0847
6300.0	2498.7622	205.8129
6360.0	2499.7027	206.1109
6420.0	2500.1997	205.9979
6480.0	2500.8679	206.0310
6540.0	2501.6102	205.9503
6600.0	2502.8822	206.2522





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: 28-Jun-2008 06:04	
OP System Version: 15C0-309			
MCM			
MWP_GUN	SRPC-3582-Q1_2008_OP15	MWPT-CA	SRPC-3582-Q1_2008_OP15
MWGT-CGRS	SRPC-3582-Q1_2008_OP15		
Output DLIS Files			
DEFAULT	PERFO_065LUP	FN:64 PRODUCER	28-Jun-2008 06:04

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: TNA A-15a

Output DLIS Files

DEFAULT PERFO_064LUP FN:63 PRODUCER 28-Jun-2008 05:48 3039.8 M 2952.6 M

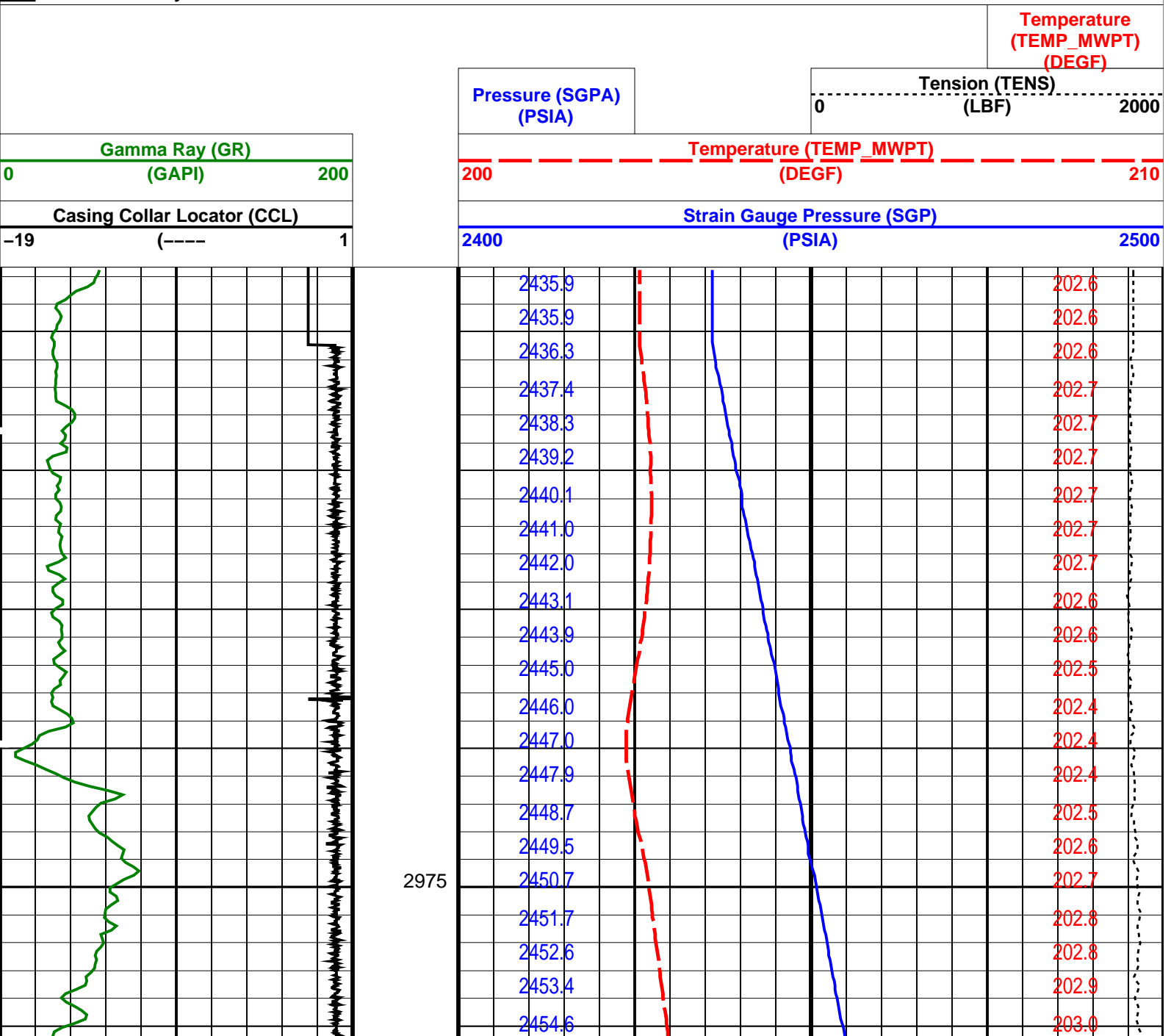
OP System Version: 15C0-309

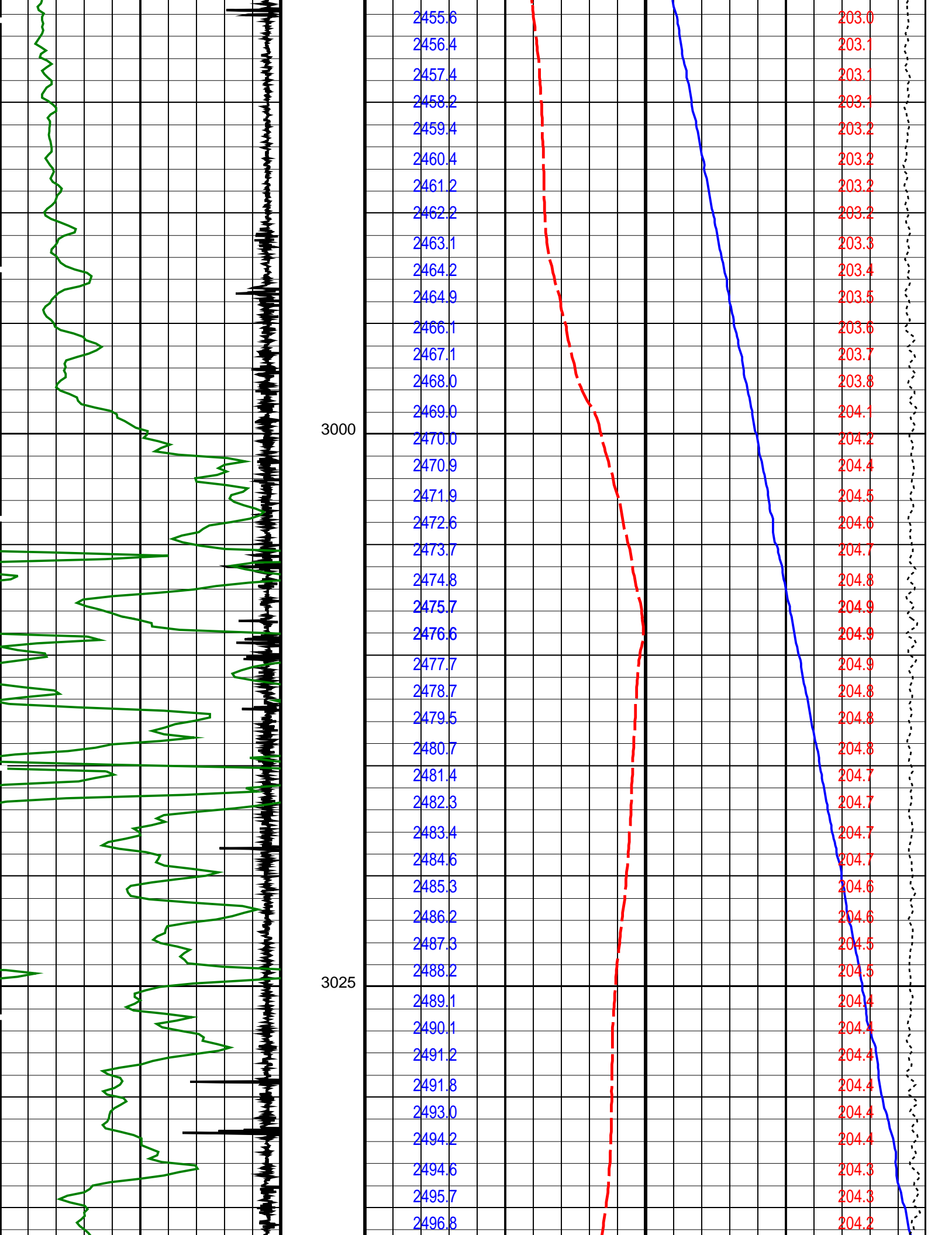
MCM

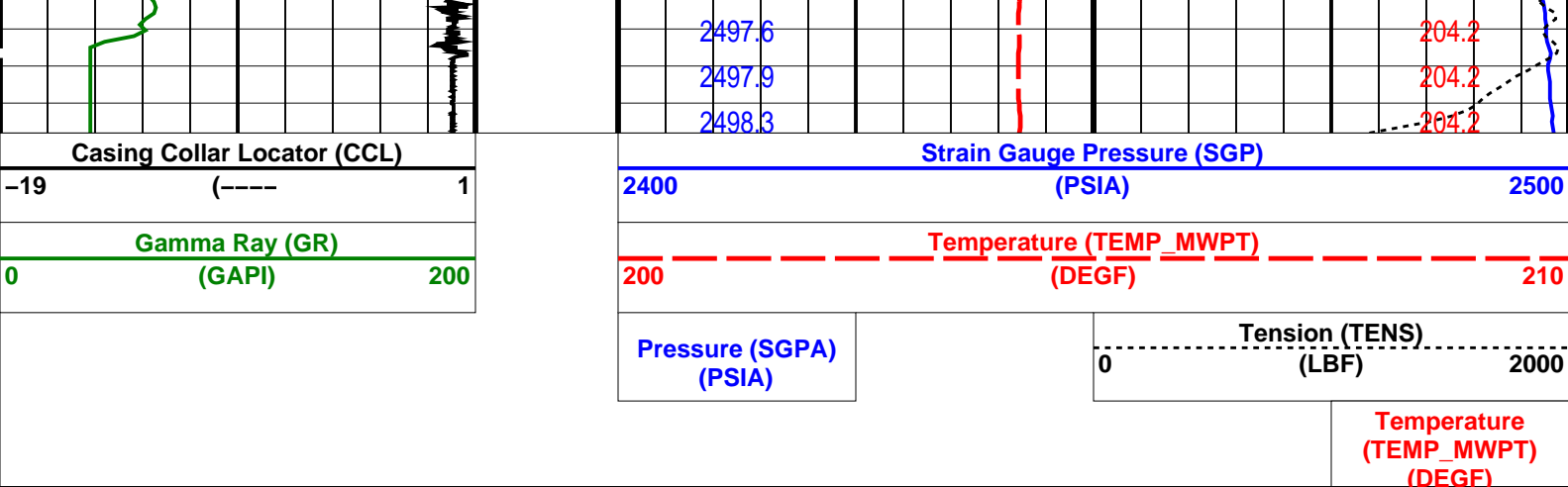
MWP_GUN SRPC-3582-Q1_2008_OP15 MWPT-CA SRPC-3582-Q1_2008_OP15
MWGT-CGRS SRPC-3582-Q1_2008_OP15

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: 28-Jun-2008 05:48

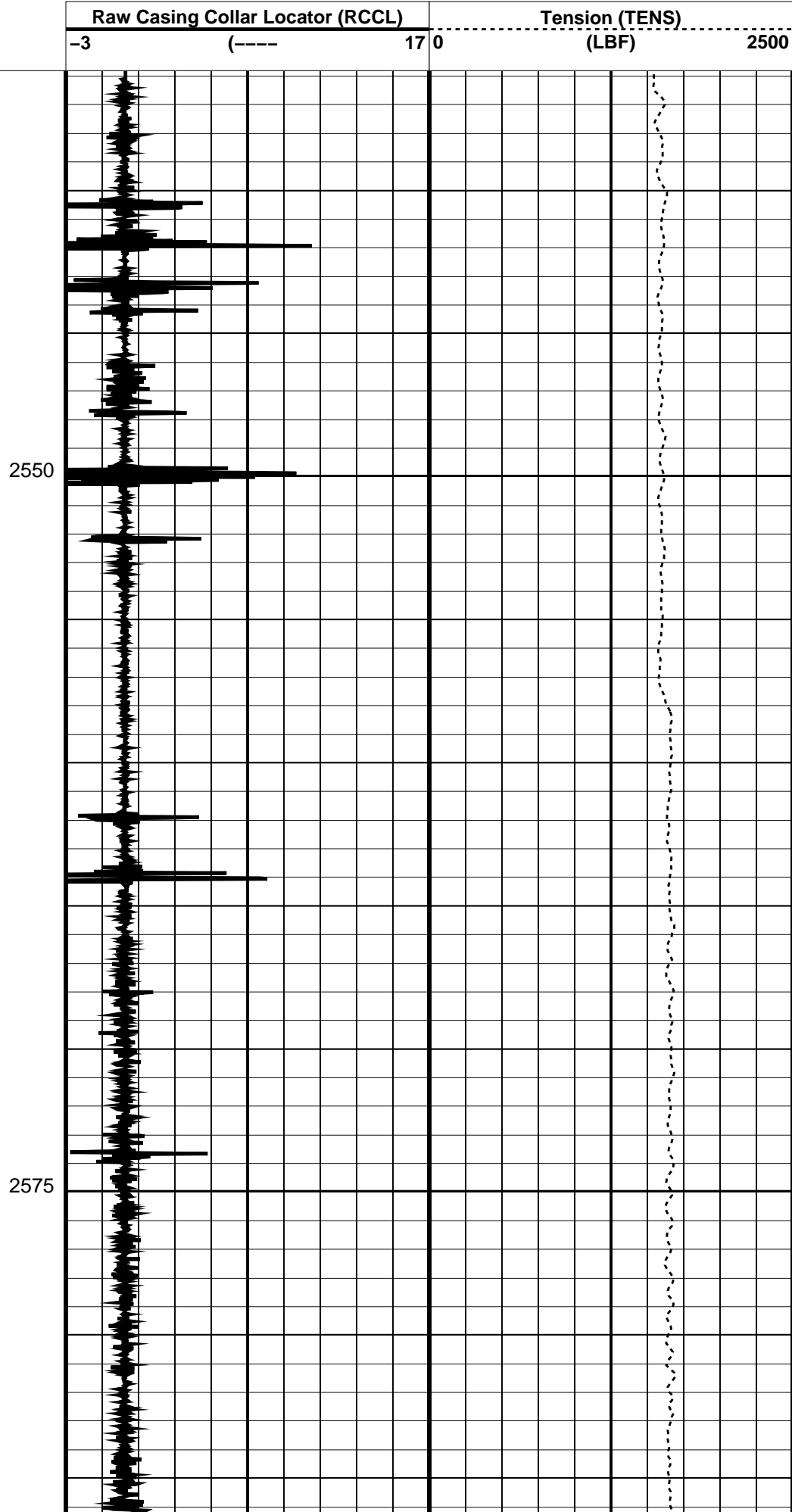
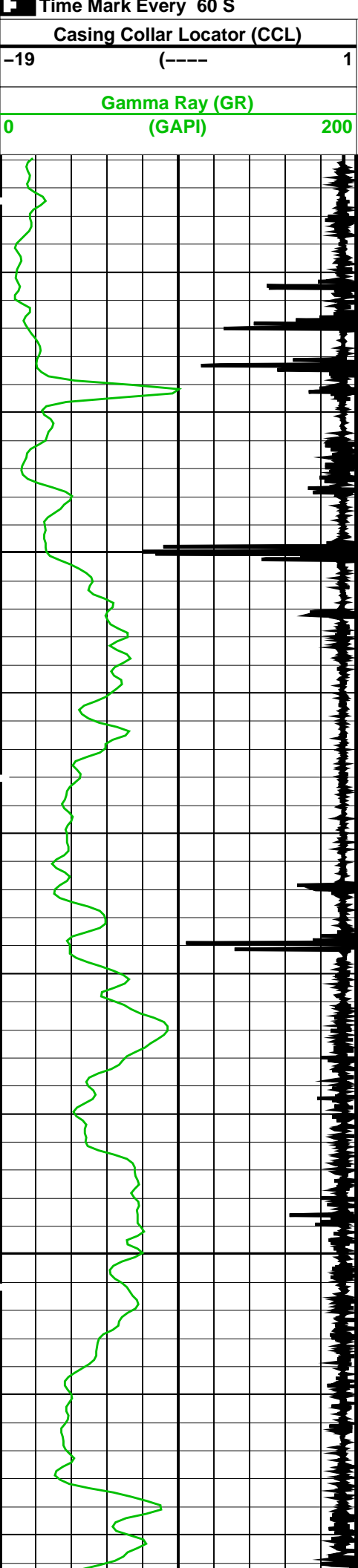
OP System Version: 15C0-309			
MCM			
MWP_GUN	SRPC-3582-Q1_2008_OP15	MWPT-CA	SRPC-3582-Q1_2008_OP15
MWGT-CGRS	SRPC-3582-Q1_2008_OP15		

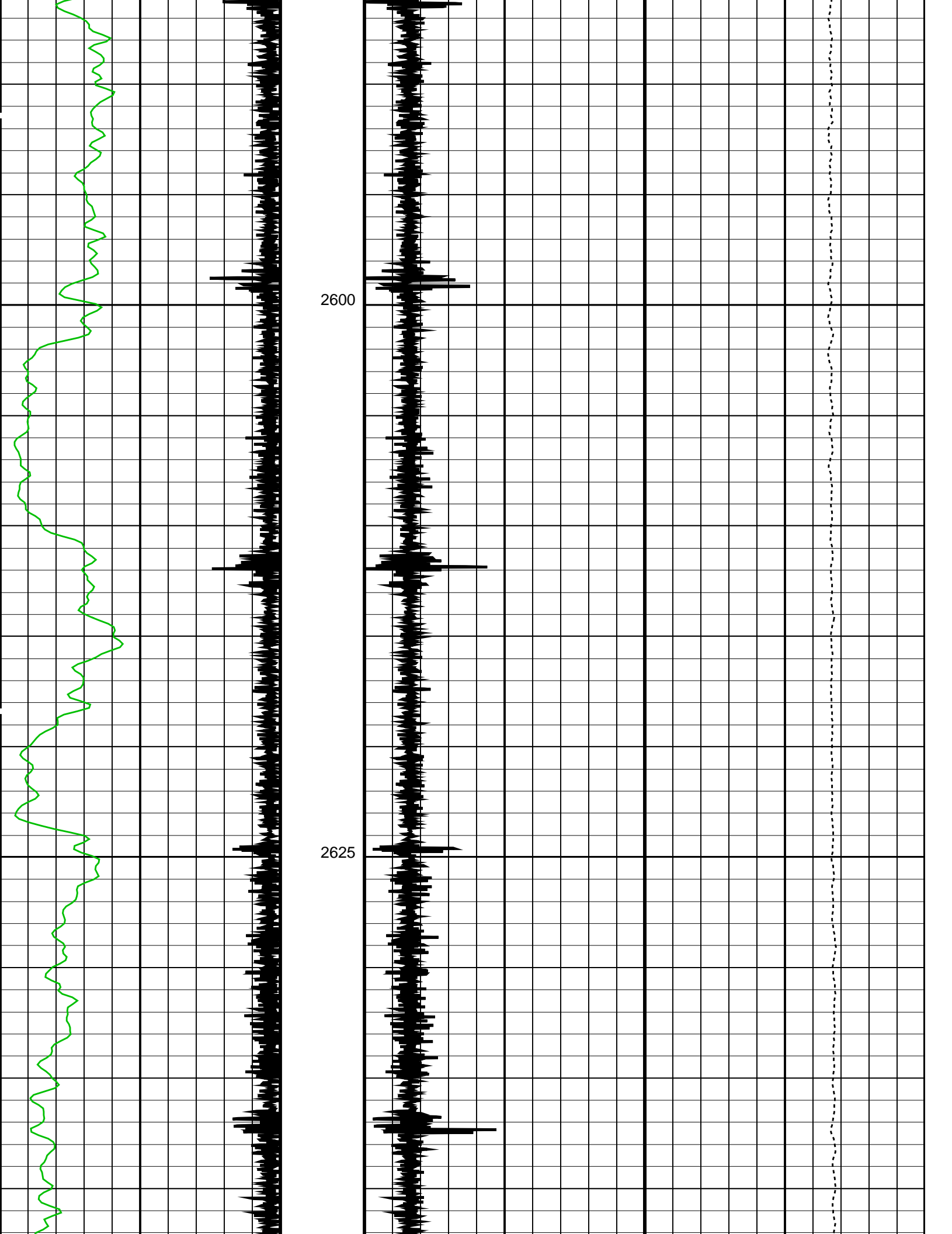
Output DLIS Files			
DEFAULT	PERFO_064LUP	FN:63	PRODUCER 28-Jun-2008 05:48

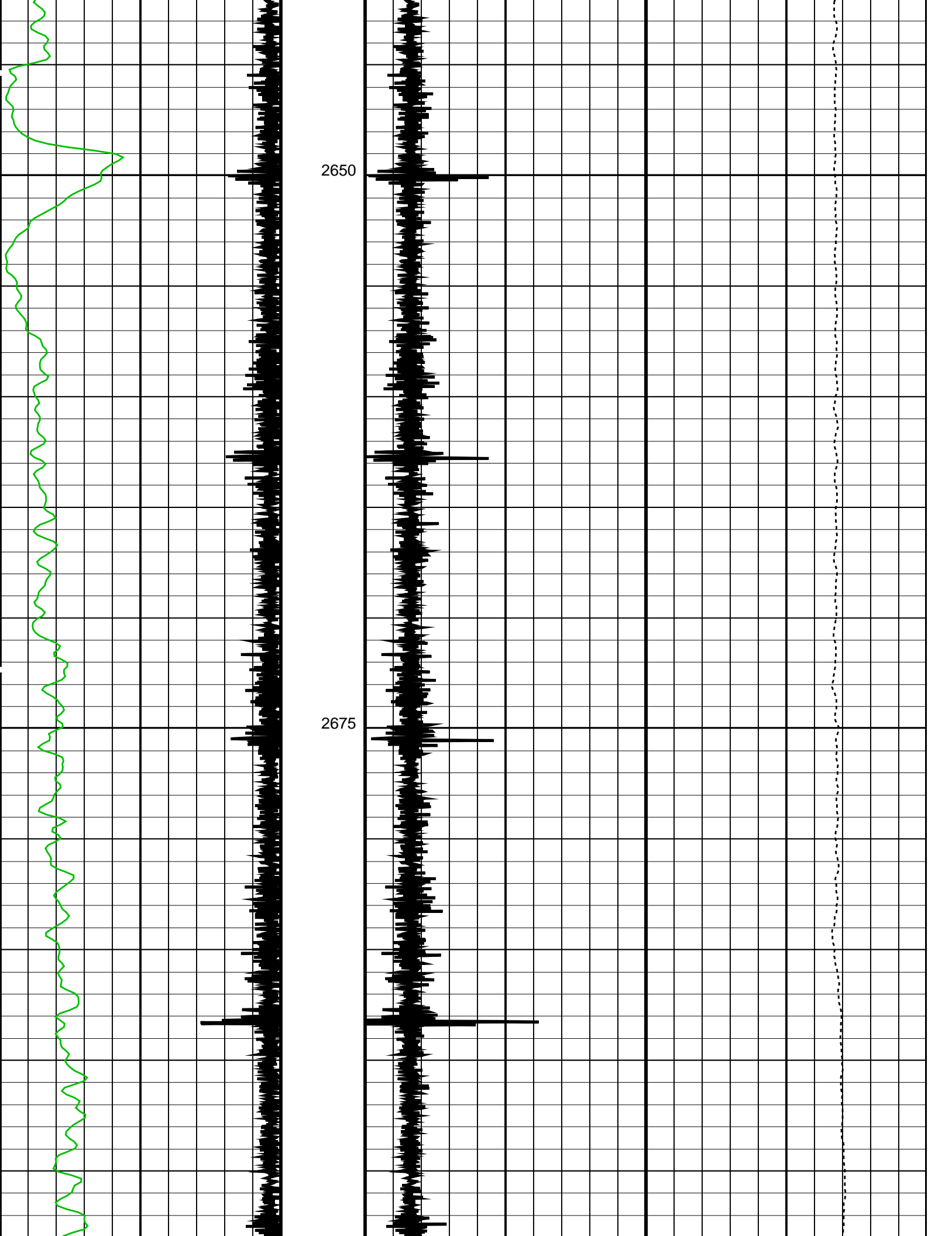
Dummy MPBT Correlation Pass

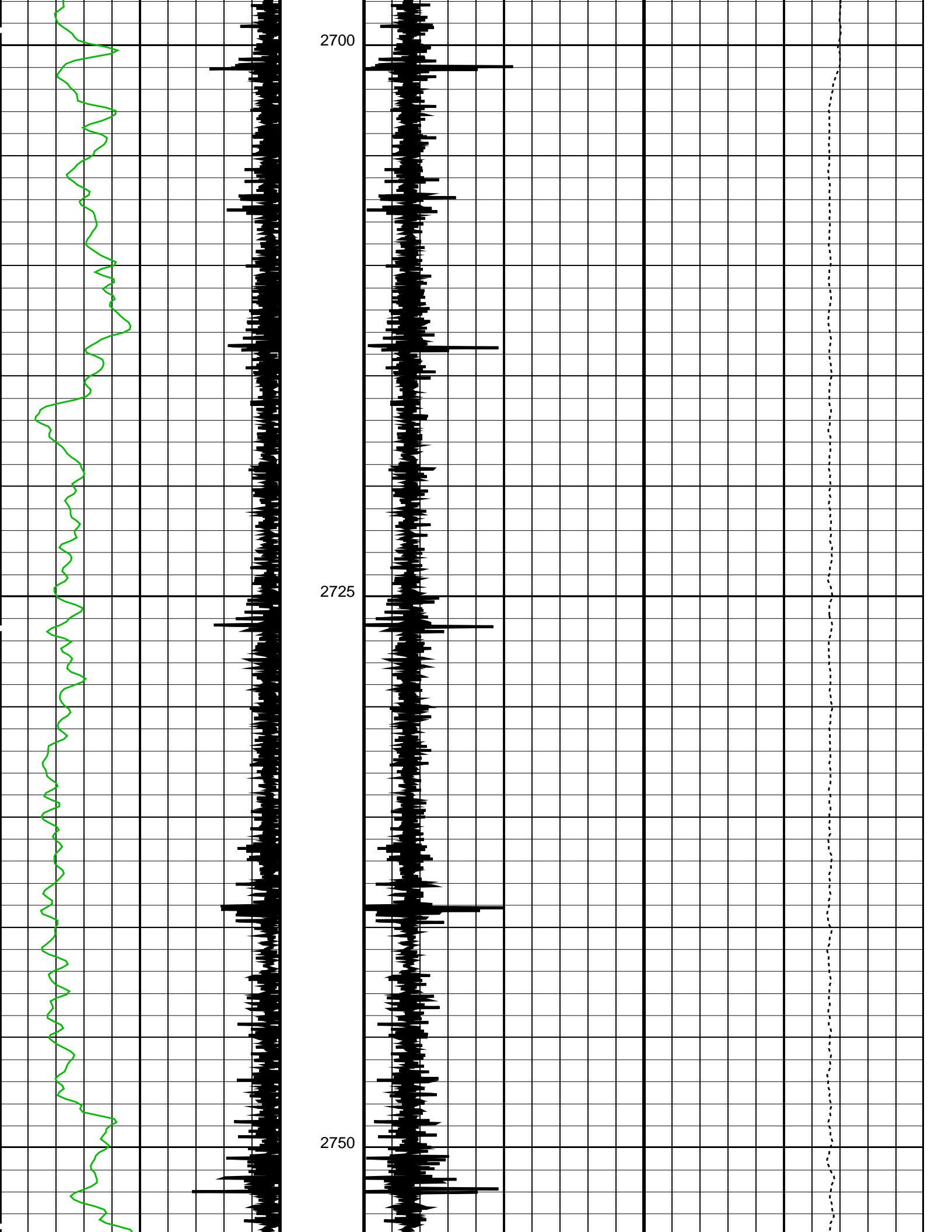
MAXIS Field Log

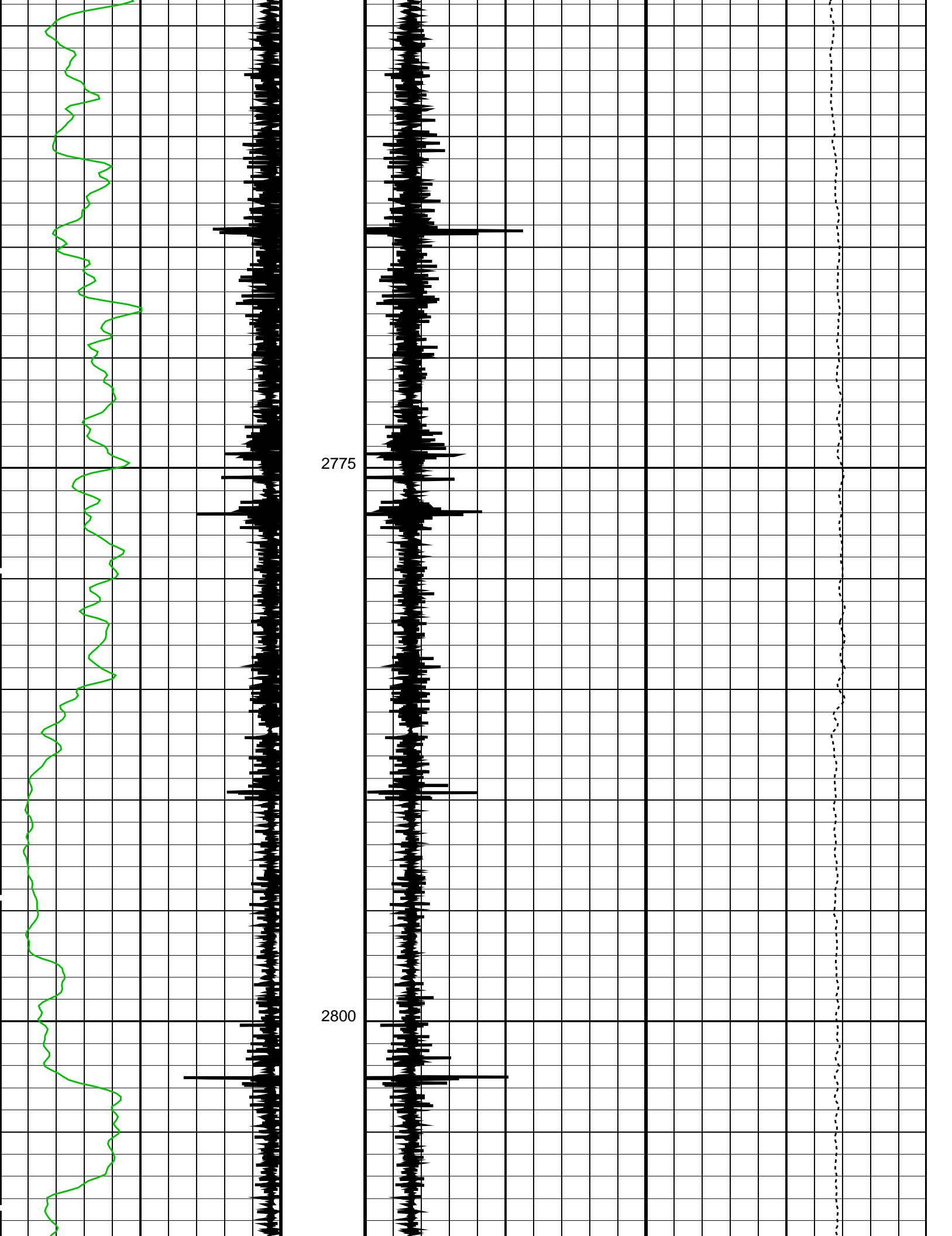
Company: Esso Australia Pty Ltd.				Well: TNA A-15a		
Input DLIS Files						
DEFAULT	PERFO_047LUP	FN:46	PRODUCER	27-Jun-2008 23:25	3056.8 M	2534.3 M
Output DLIS Files						
DEFAULT	PERFO_075PUP	FN:72	PRODUCER	28-Jun-2008 07:25	3057.9 M	2535.8 M
OP System Version: 15C0-309						
MCM						
UPCT-A	15C0-309	SHM_GUN		SRPC-3582-Q1_2008_OP15		
PIP SUMMARY						

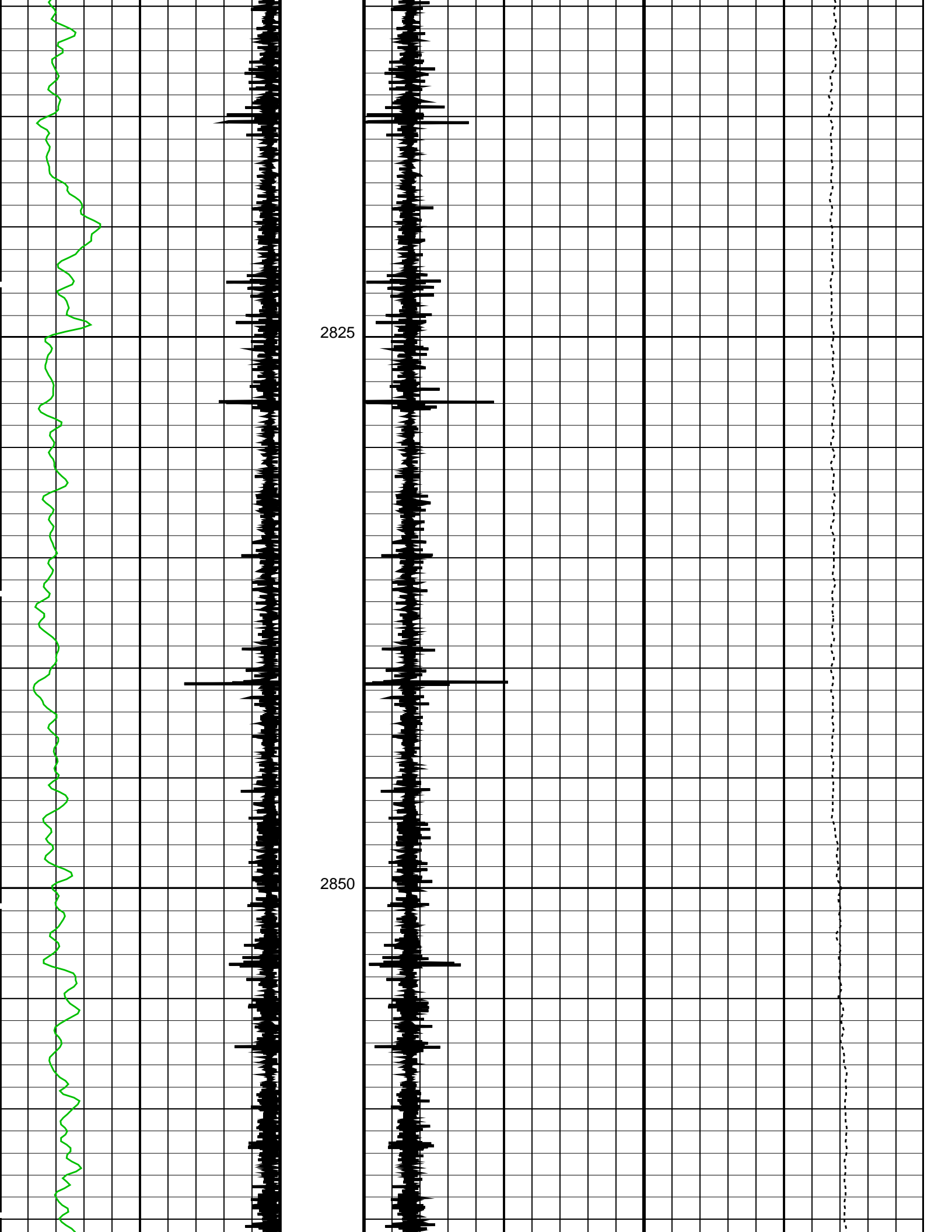


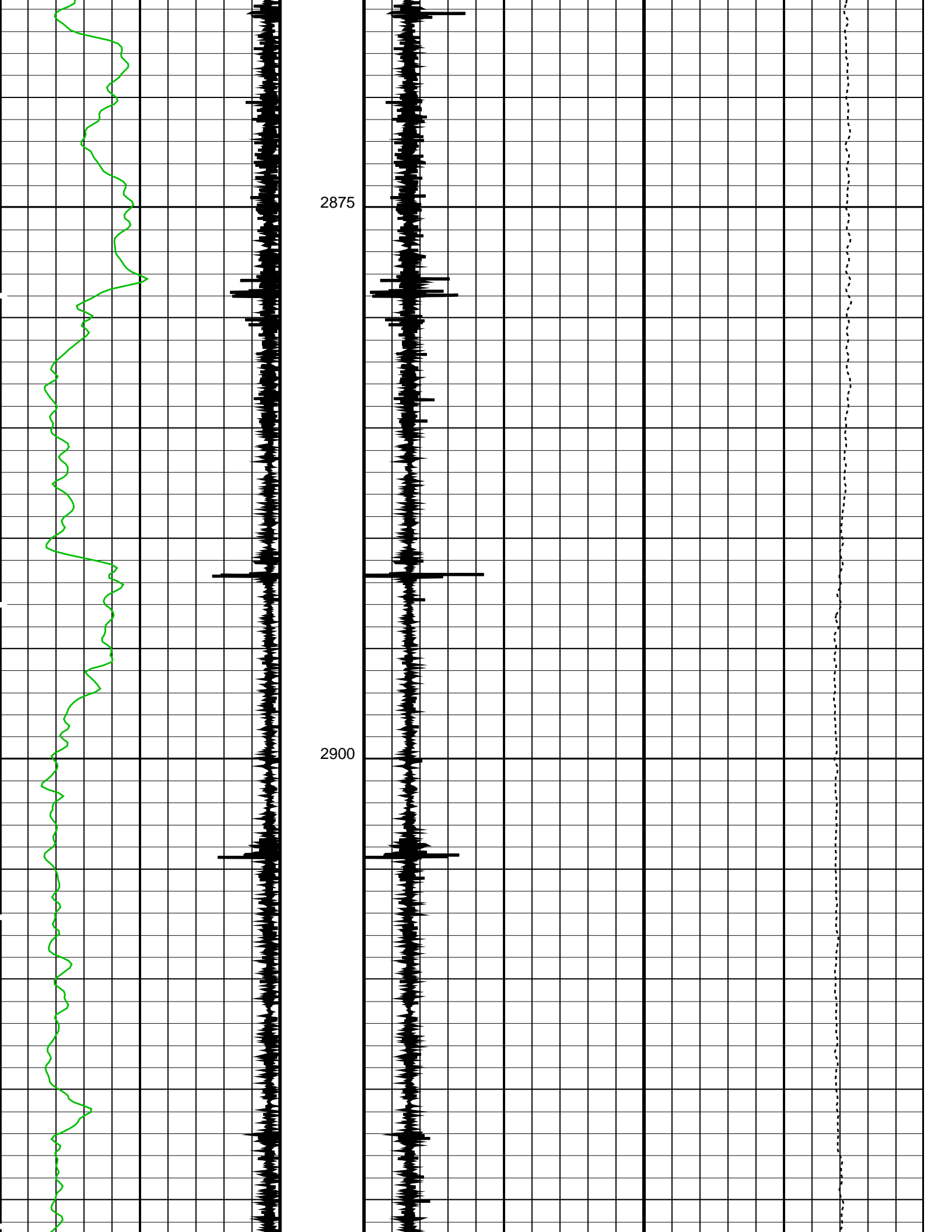


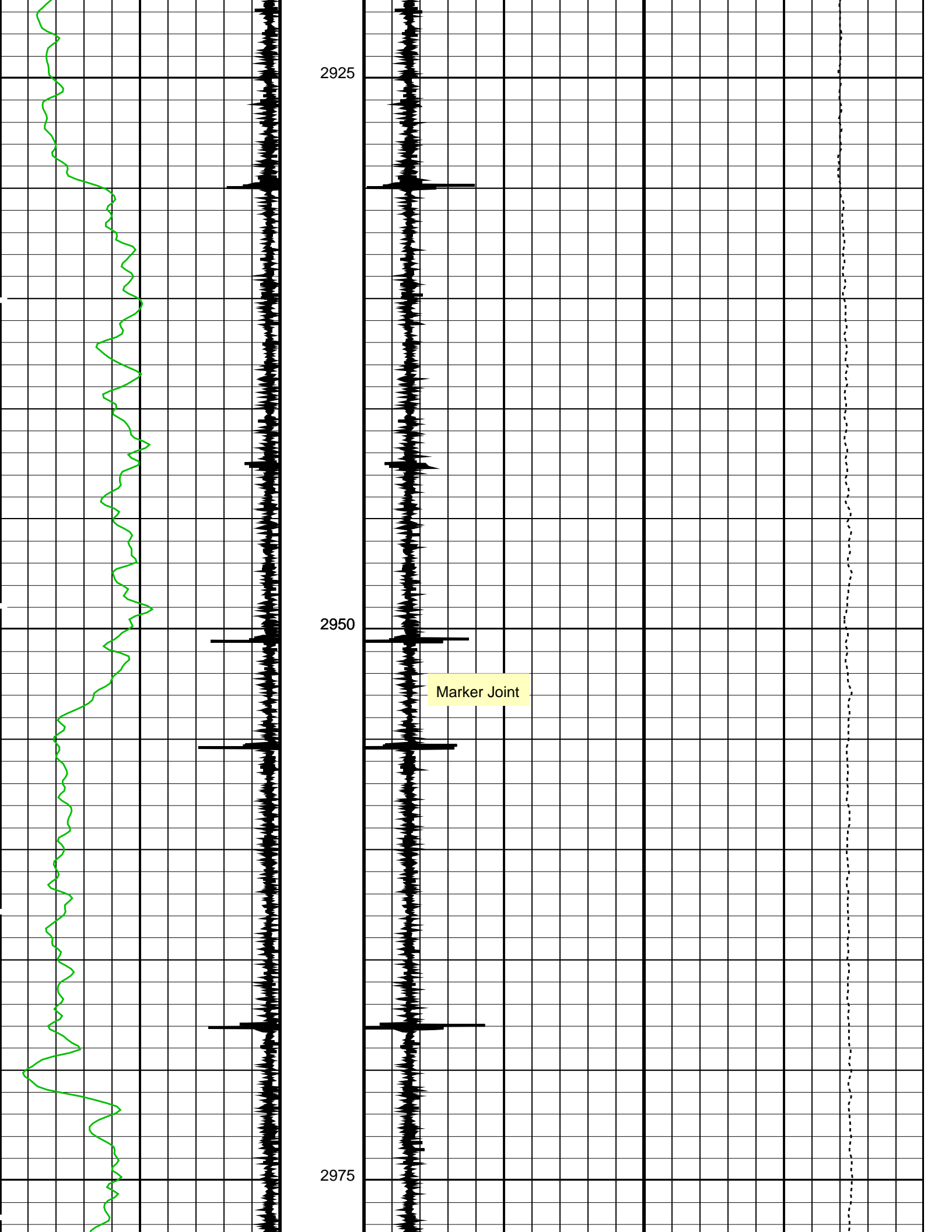


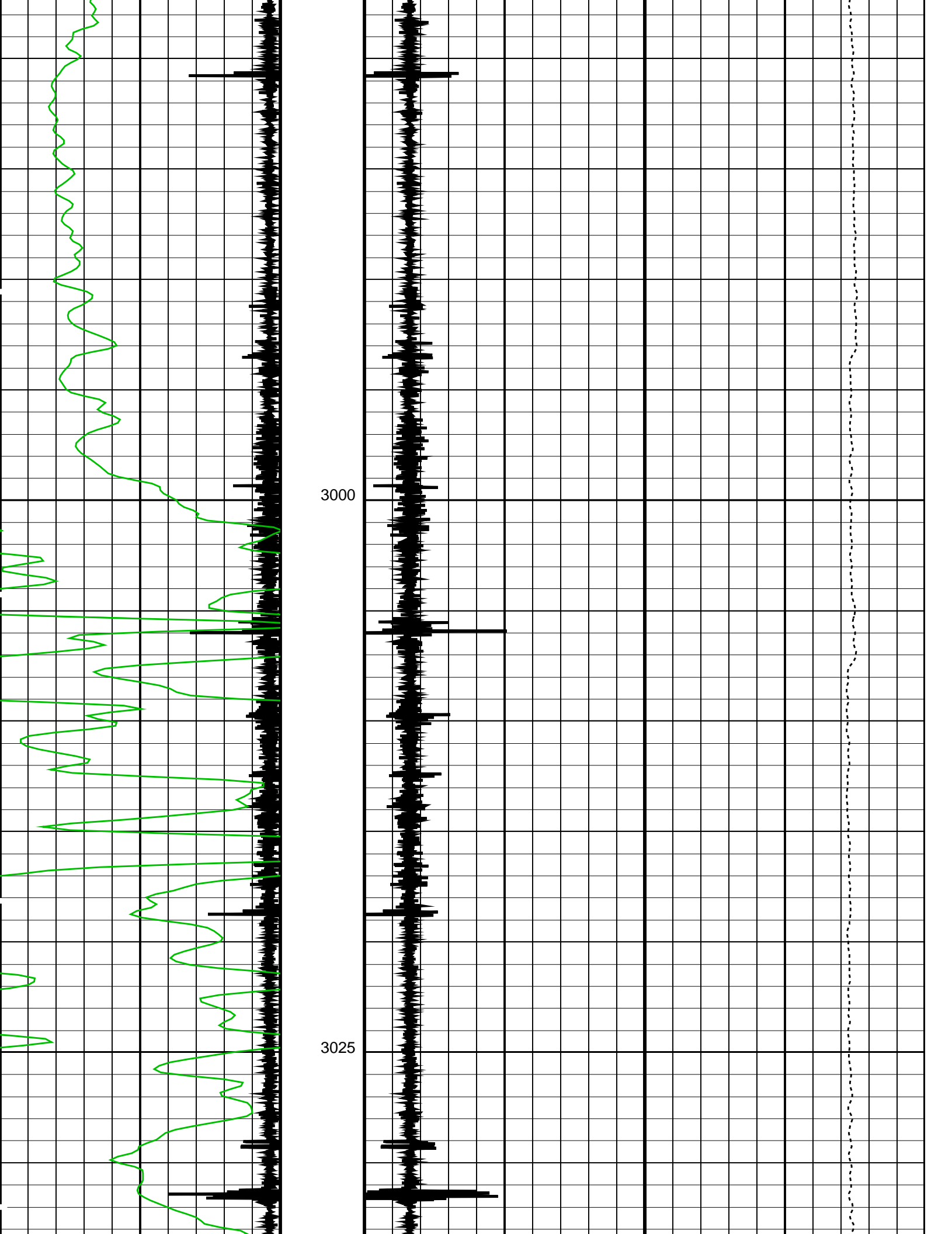


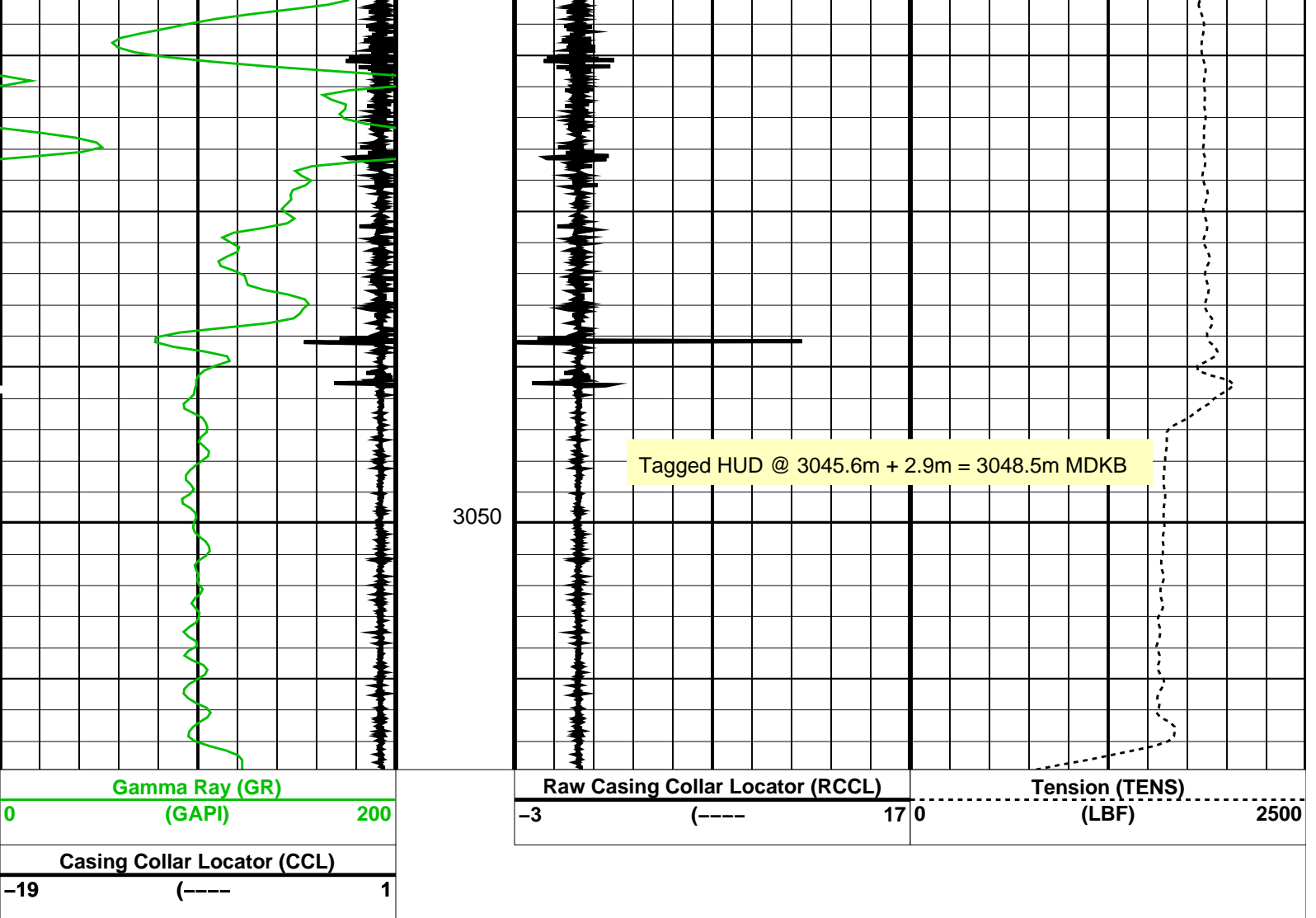












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	1.0 M
PP	Depth Offset for Playback	NORMAL
	Playback Processing	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 28-Jun-2008 07:25

OP System Version: 15C0-309

MCM

UPCT-A 15C0-309 SHM_GUN SRPC-3582-Q1_2008_OP15

Input DLIS Files

DEFAULT PERFO_047LUP FN:46 PRODUCER 27-Jun-2008 23:25 3056.8 M 2534.3 M

Output DLIS Files

DEFAULT PERFO_075PUP FN:72 PRODUCER 28-Jun-2008 07:25

Company: Esso Australia Pty Ltd.

Schlumberger

Well: TNA A-15a
Field: Tuna
Rig: Crane / Prod2

Rig: **Crane / 11002**
Country: **Australia**

2-1/8" Powerjet / MPBT
Perforation and Plug Setting Record
27-Jun-2008