

Company: Esso Australia Ltd.

Well: WKF W-21a  
Field: West Kingfish  
Rig: ISDL 453/ Prod 3  
Country: Australia

Junk Basket-GR-CCL  
4 1/2 HSD Powerjet Omega  
Perforating Record

Rig: ISDL 453/ Prod 3

Field: West Kingfish

Location: Gippsland

Well: WKF W-21a

Company: Esso Australia Ltd.

LOCATION

Gippsland

Basin

Bass Strait

Elev.: K.B. 33.4 m

G.L. 109.5 m

D.F. 33.4 m

Permanent Datum: Mean Sea Level

Log Measured From: Kelly Bushing

Drilling Measured From: Kelly Bushing

Elev.: 0 m

33.4 m above Perm. Datum

State: Victoria

Max. Well Deviation 22 deg

Longitude 148°06'15.1"E

Latitude 38°35'40.7"S

Logging Date	26-Aug-2006			
Run Number	1&2			
Depth Driller	2571 m			
Schlumberger Depth	2534.5 m			
Bottom Log Interval	2534.5 m			
Top Log Interval	2198.5 m			
Casing Fluid Type	Inhibited Sea Water			
Salinity				
Density	1.02 g/cm3			
Fluid Level	33.4 m			
BIT/CASING/TUBING STRING				
Bit Size	8.500 in			
From	109 m			
To	2565 m			
Casing/Tubing Size	7.000 in			
Weight	26 lbm/ft			
Grade	L-80			
From	11 m			
To	2565 m			
Maximum Recorded Temperatures				
Logger On Bottom	Time		10:35	
Unit Number	Location	41	AUSL	
Recorded By	Joel Hogan			
Witnessed By	Tony Basset, Bim Steel			

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					22 deg		
CEMENTING DATA							
Primary/Squeeze					Primary		
Casing String No							
Lead 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			Time				
Unit Number		Location					
Recorded By							
Witnessed By							

## Depth System Equipment

Date Created: 28-August-2006 13:04:06

Depth Measuring Device		Tension Device		Logging Cable	
Type:		Type:	CMTD-B/A	Type:	
Serial Number:	IDW-E	Serial Number:	1721	Serial Number:	7-46V-XS
Calibration Date:	727	Calibration Date:	21-08-2006	Length:	5999.99 M
Calibrator Serial Number:	13001-2006	Calibrator Serial Number:	1721-2006	Conveyance Method:	Wireline
Calibration Cable Type:	7-46V-XS	Calibration Gain:		Rig Type:	Offshore_Fixed
Wheel Correction 1:		Calibration Offset:	0.948		
Wheel Correction 2:	-3.43		517.00		
	-4.15				











Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Composite
Reference Log Run Number:	1
Reference Log Date:	Not dated
Subsequent Trip Down Log Correction:	1 M

1. Correlated to precision log provided by client
2. Used IDW as primary depth control
3. Used Z-Chart as secondary depth control
- 4.
- 5.
- 6.

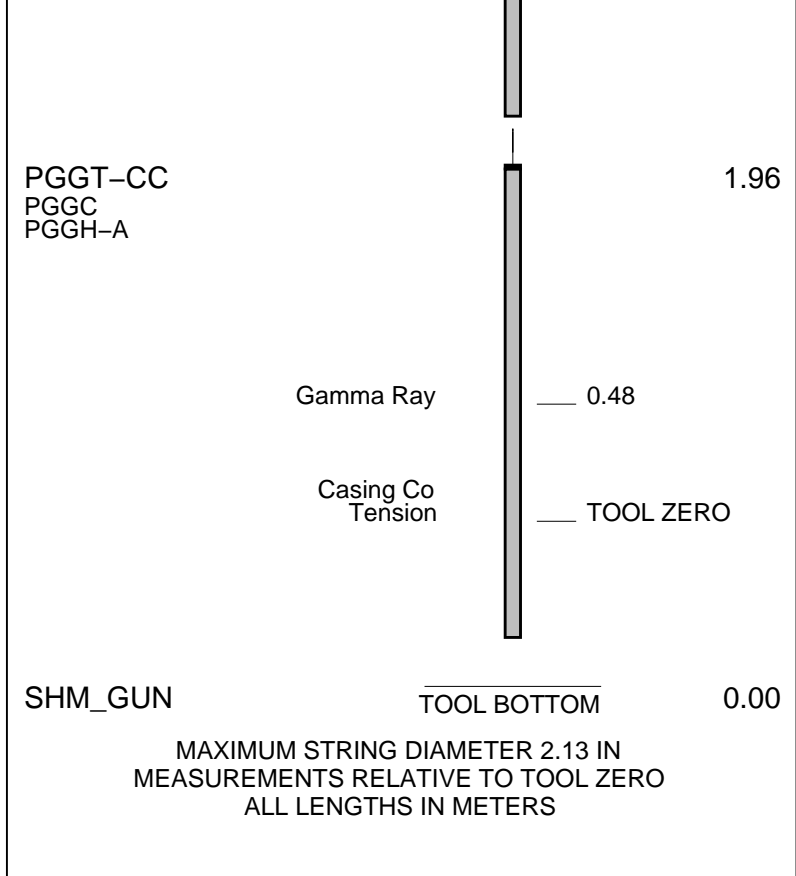
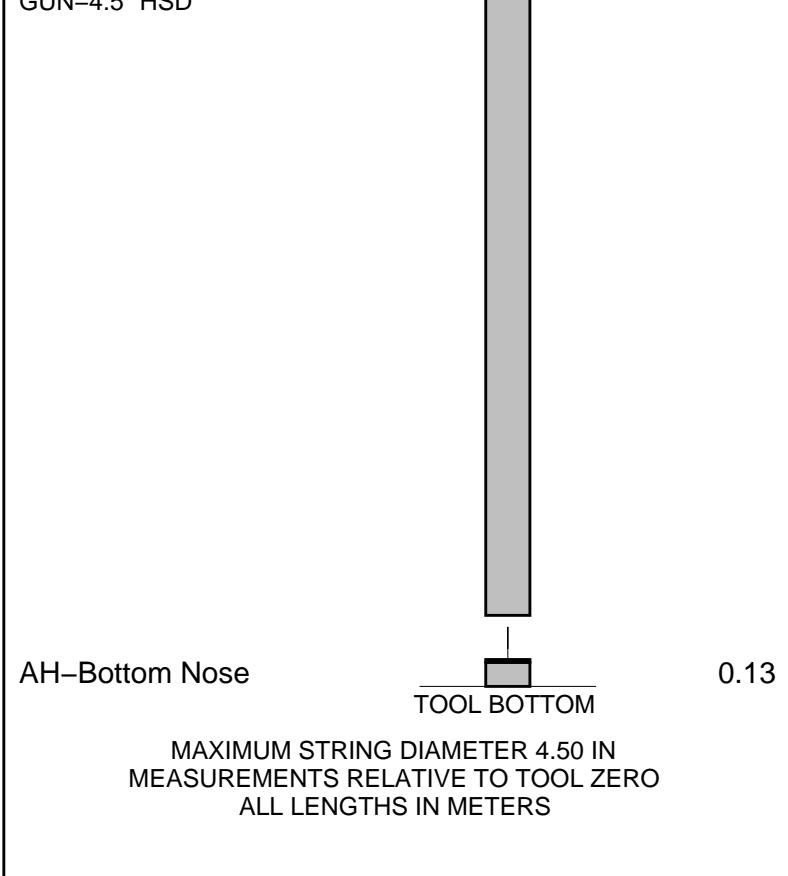
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (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	OTHER SERVICES2
OS1: GR-CCL	OS1:
OS2: Tubing Correlation	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to Solar Composite Log provided by	
client, undated.	
Purpose of log: To run junk basket with 6" gauge ring	
to confirm access to future zones. HUD=2535.5mMDKB	
Run in hole with 4 1/2" HSD Powerjet Omega and perforate	
interval 2436mMDKB-2437.5mMDKB.	
OS1 to top of shot 2.66m	

CCL to top shot 3.69m					
CCL stop depth 2432.31mMDKB					
Top shot fired at 2436mMDKB					
Run in hole with GR-CCL to confirm packer setting depths.					
Casing PIP tag=2331.3mMDKB ,Tubing PIP tag=2299.8mMDKB					
Packer 2413.2mMDKB , packer 2441.2mMDKB .					
Requires depth correction of +1.97m					
Schlumberger crew: R Murray, C Harris, K Kerr (days)					
G Martin, C Armstrong, N Simmons (nights)					
Performed by Schlumberger.					
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
AUSL06165340 14C0-302 33.4 m					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
WITM (SHM)			SHM-EA		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
PEH-A PEH-A 8		7.05	MH-22 MH-22		6.14
AH-166 AH-166 3003		6.51	AH-38		5.66
PGGT-D PGGC PGGH-D		6.10	EQF-46 EQF-46		5.61
Gamma Ray	— 1.07				
CCL Casin Tension	— TOOL ZERO				
AH-283		4.32			
AH-WPSA-AA AH-WPSA-AA		4.22	EQF-43 EQF-43		3.78
SHM_GUN GUN 4.5" HSD		3.18			

GUN-4.5 HSD



Client: Esso Australia Ltd.

Well: WKF W21a

Field: West Kingfish

State: Victoria

Country: Australia

Drawing Date: 9/1/2006

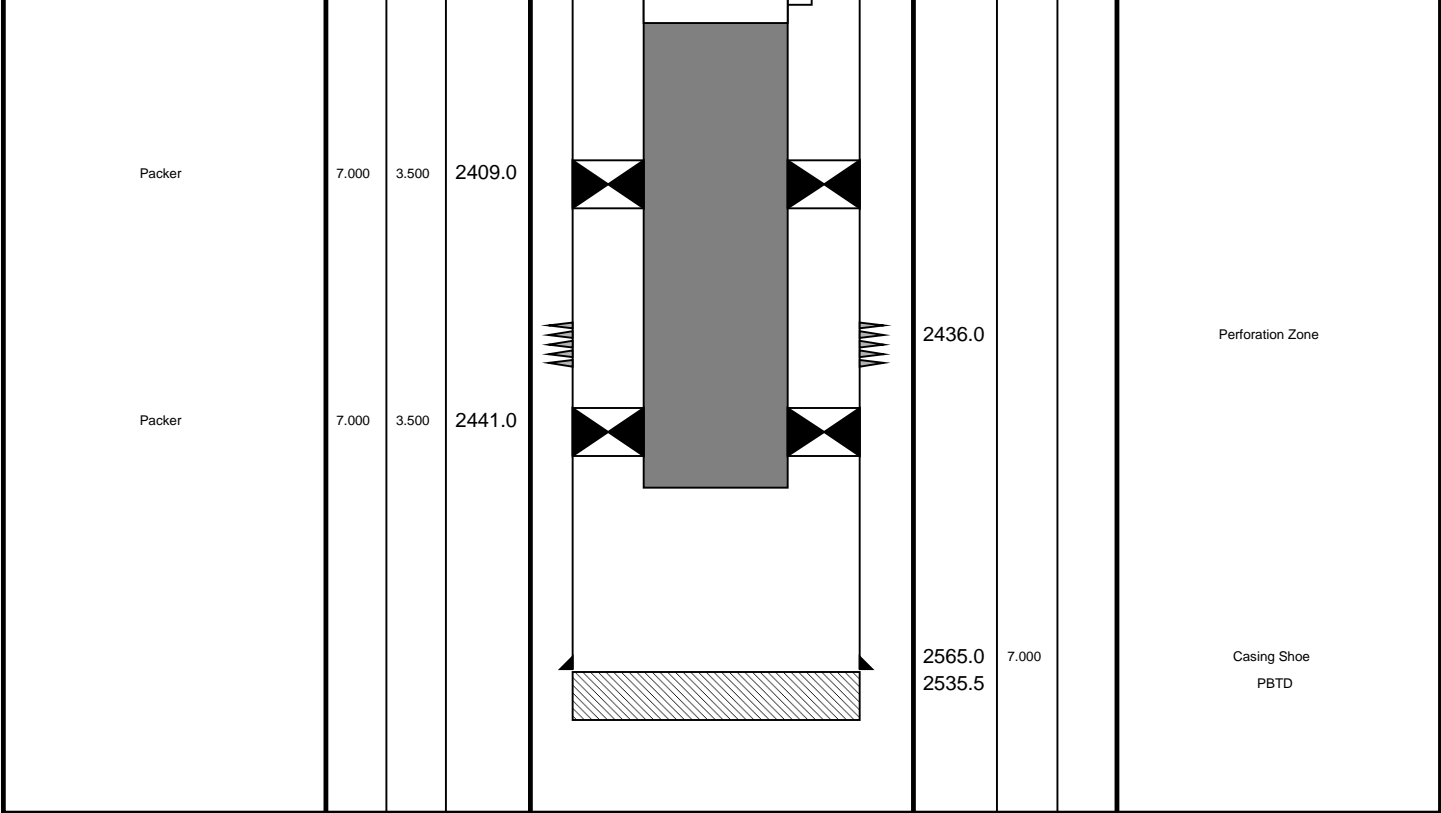
API #:

Rig Name: ISDL 435/Prod 3

Reference Datum: Kelly Bushing

Elevation: 33.4 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	3.900	3.500	8.0		11.0	7.000		Casing String
Gas Lift Mandrel	3.500		865.0					
Gas Lift Mandrel	3.500		1384.0					
Gas Lift Mandrel	3.500		1626.0					



# Operational Summary Listing

MAXIS Field Log

## PERFO2 Operational Summary Listing

Device	Status	Req Depth ( M)	Obs Depth ( M)	Time Used
GUN1	Used	2436.0	2436.0	Sat Aug 26 16:49:47 2006



Junk basket  
6" Gauge ring

Input DLIS Files

DEFAULT      PERFO\_008LUP      FN:7      PRODUCER      26-Aug-2006 10:29      2546.5 M      2198.4 M

Output DLIS Files

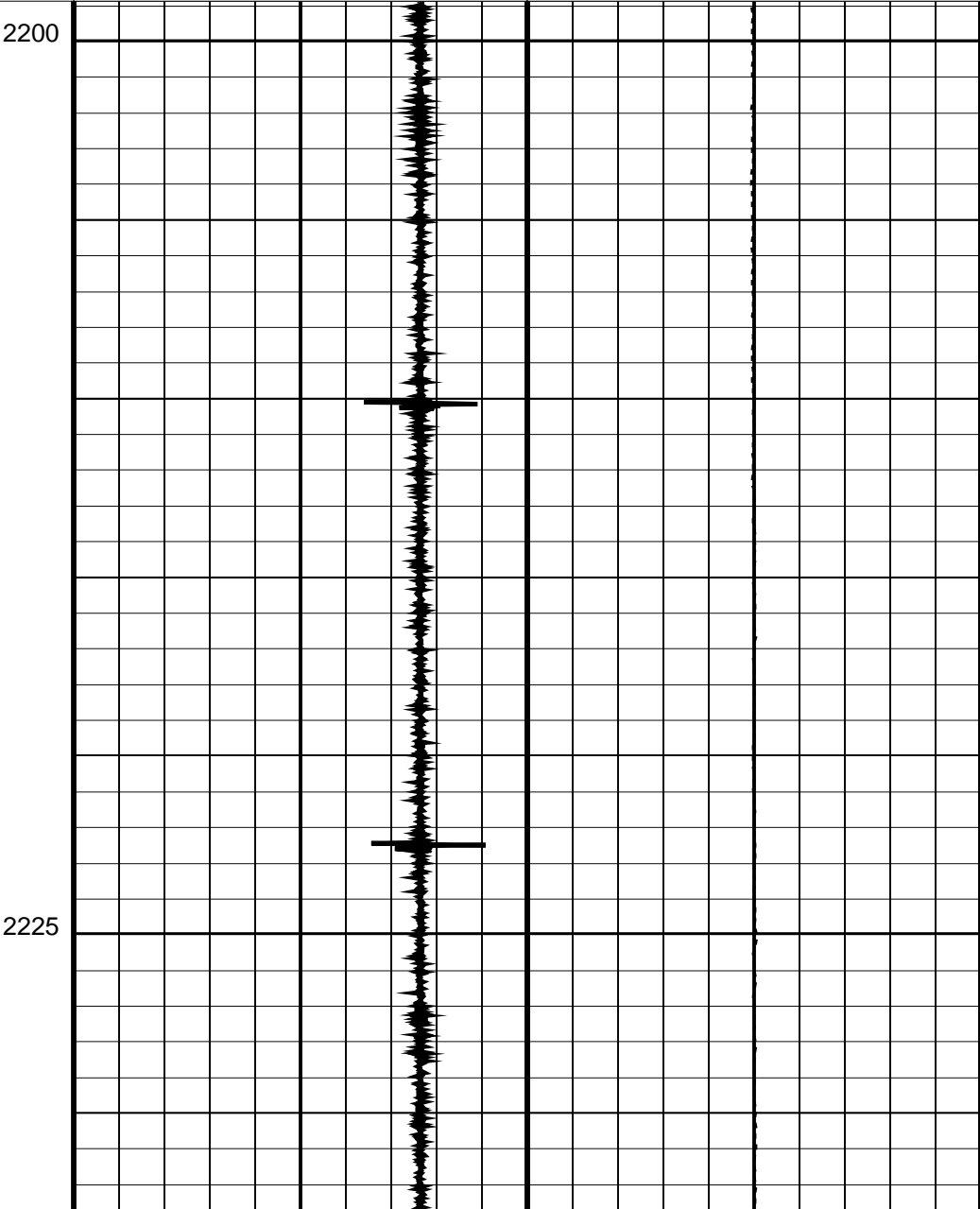
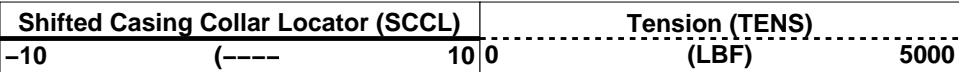
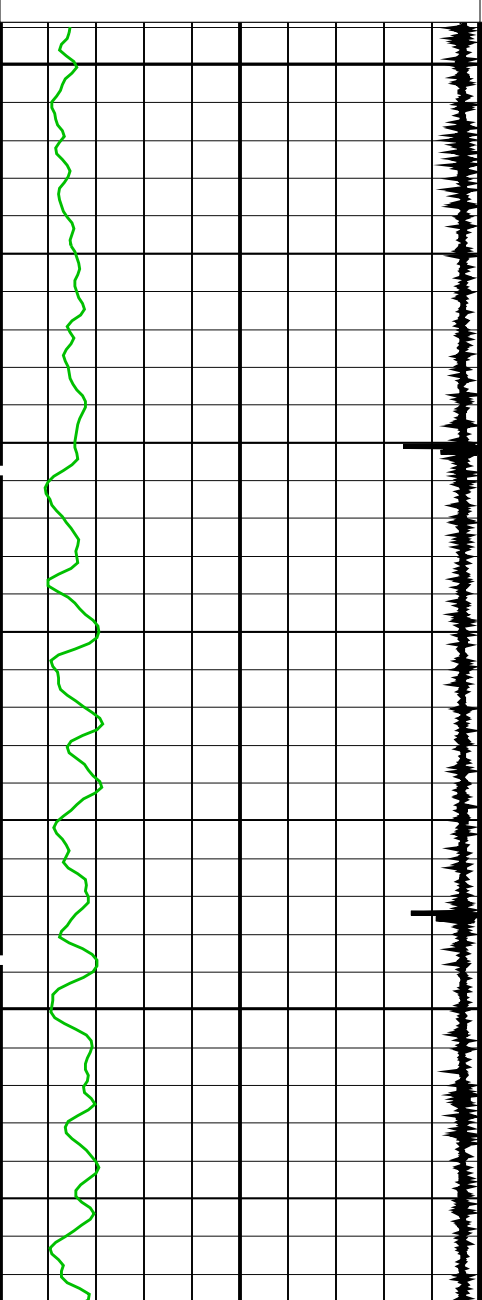
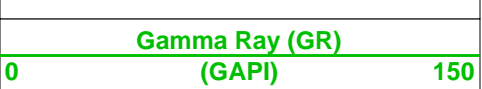
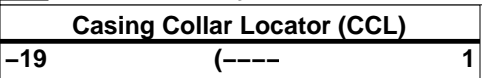
DEFAULT      PERFO\_009PUP      FN:8      PRODUCER      26-Aug-2006 10:58      2546.5 M      2198.8 M

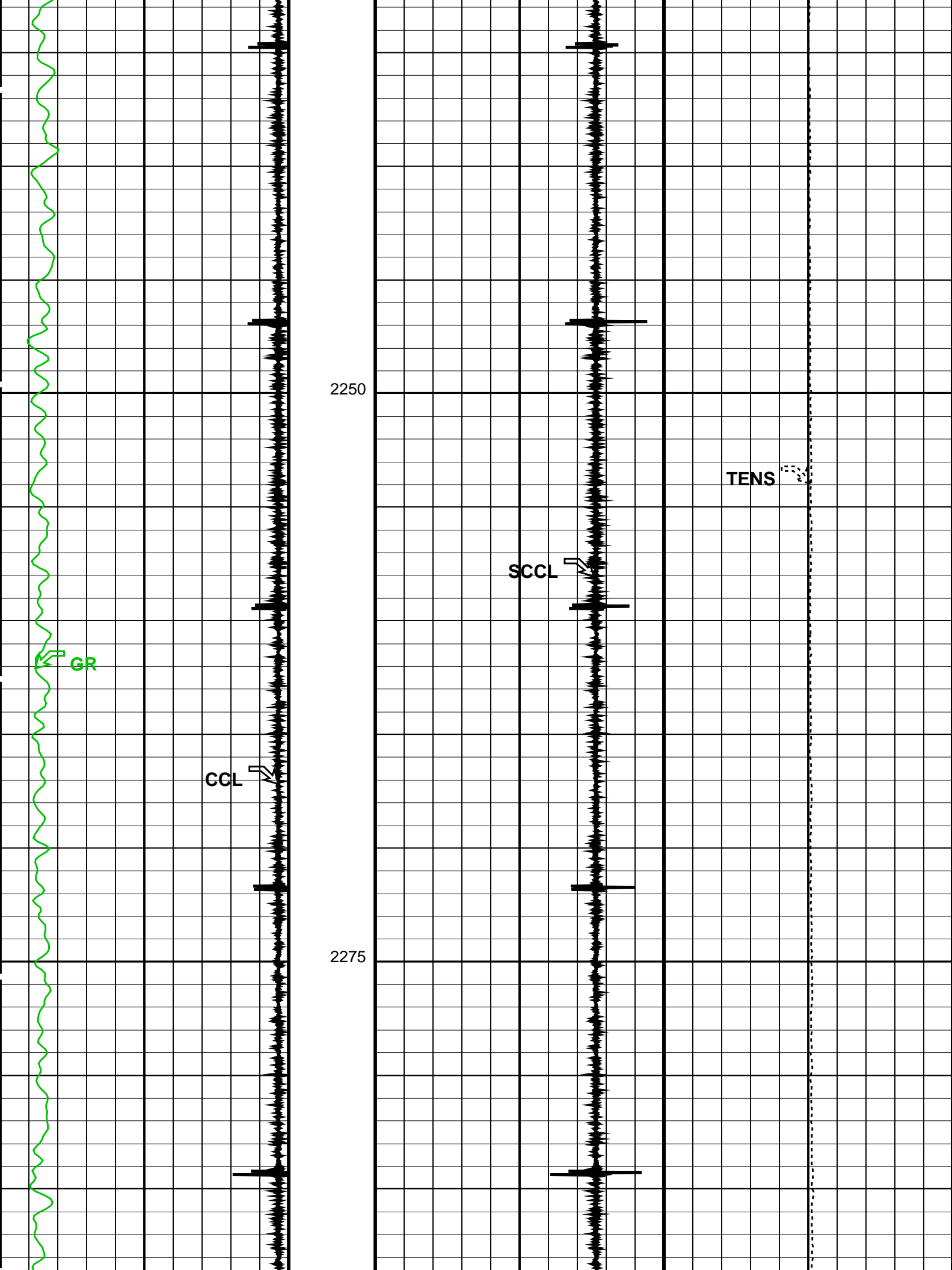
OP System Version: 14C0-302  
MCM

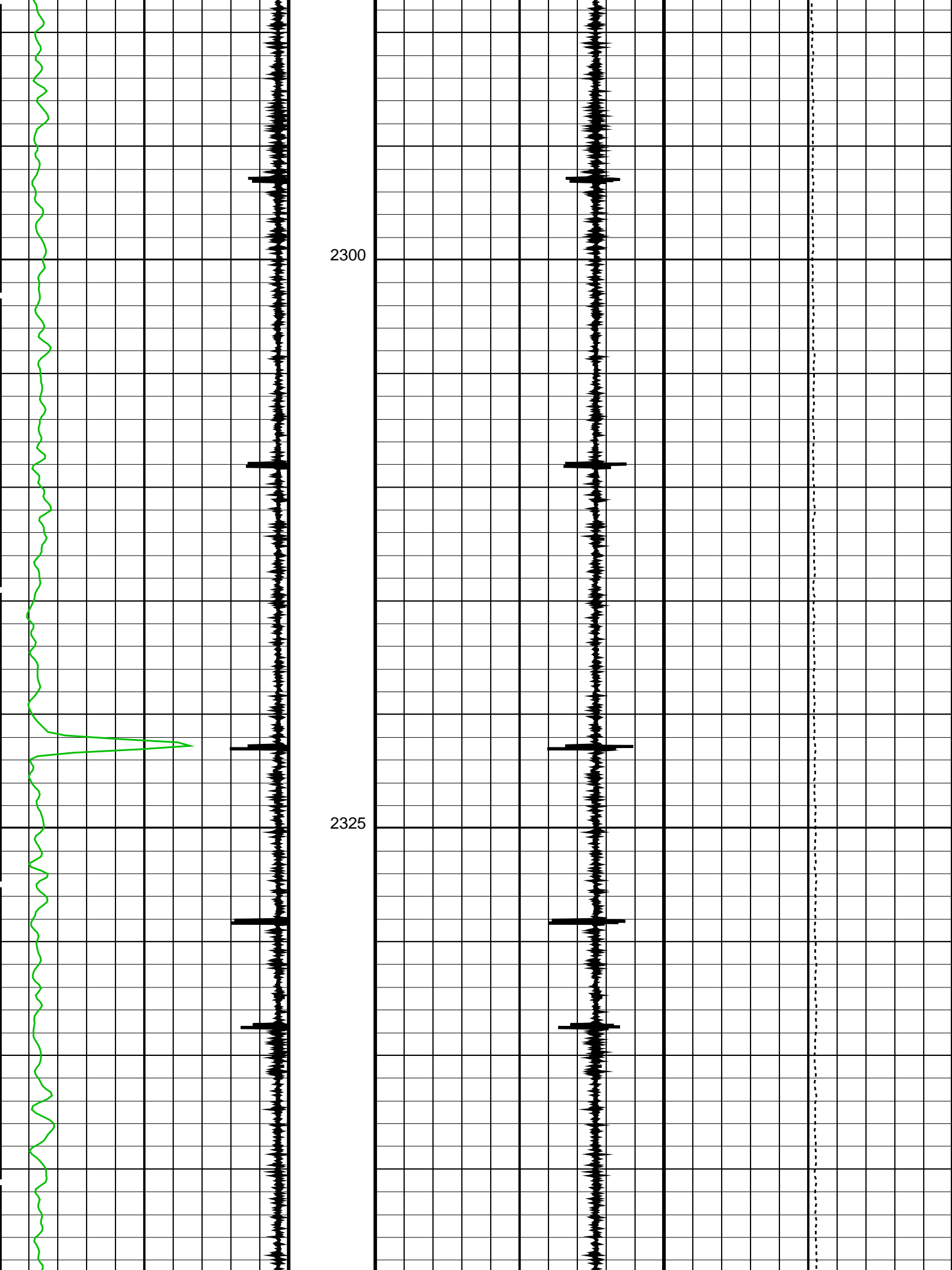
SHM\_GUN      14C0-302      PGGT-D      14C0-302

PIP SUMMARY

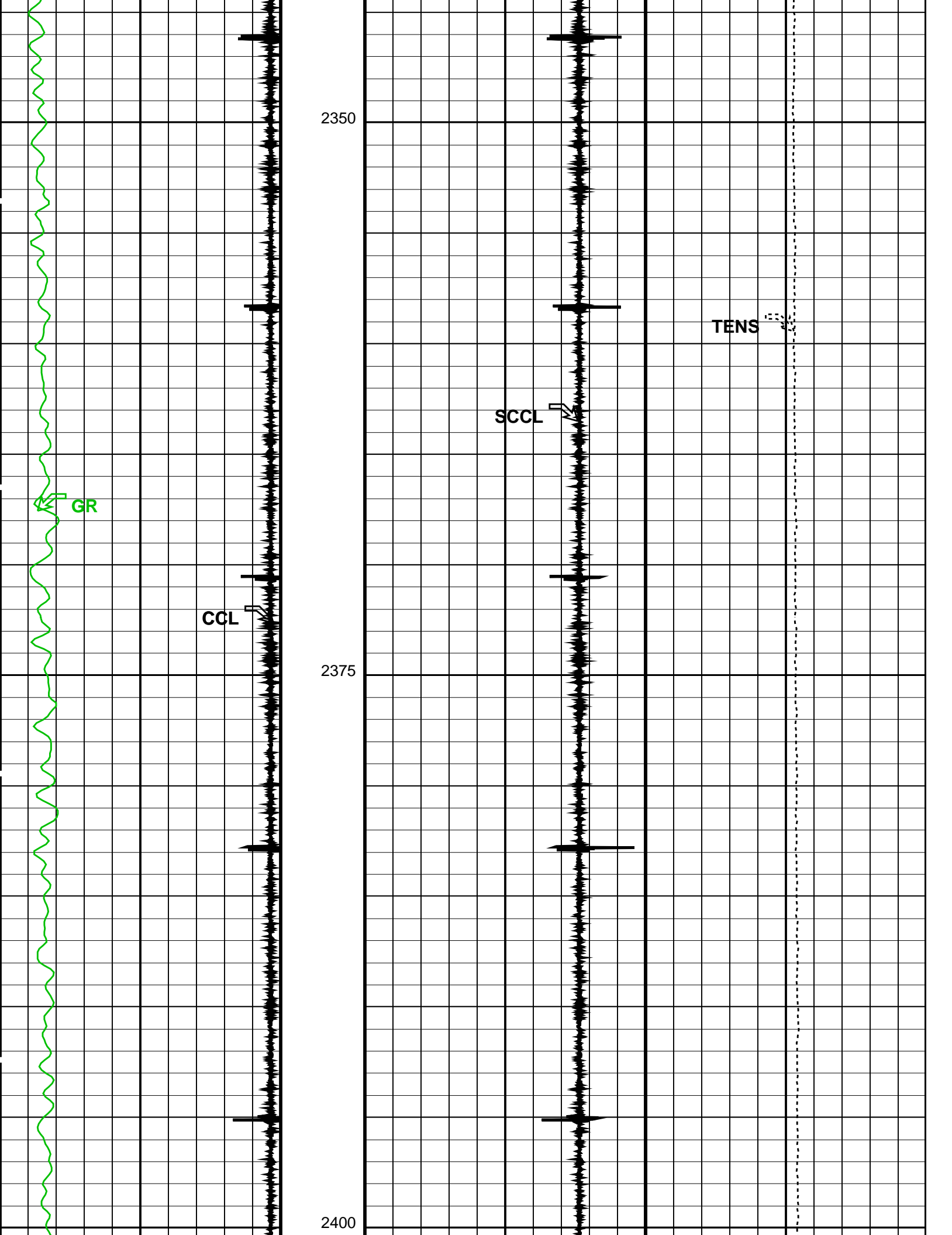
Time Mark Every 60 S

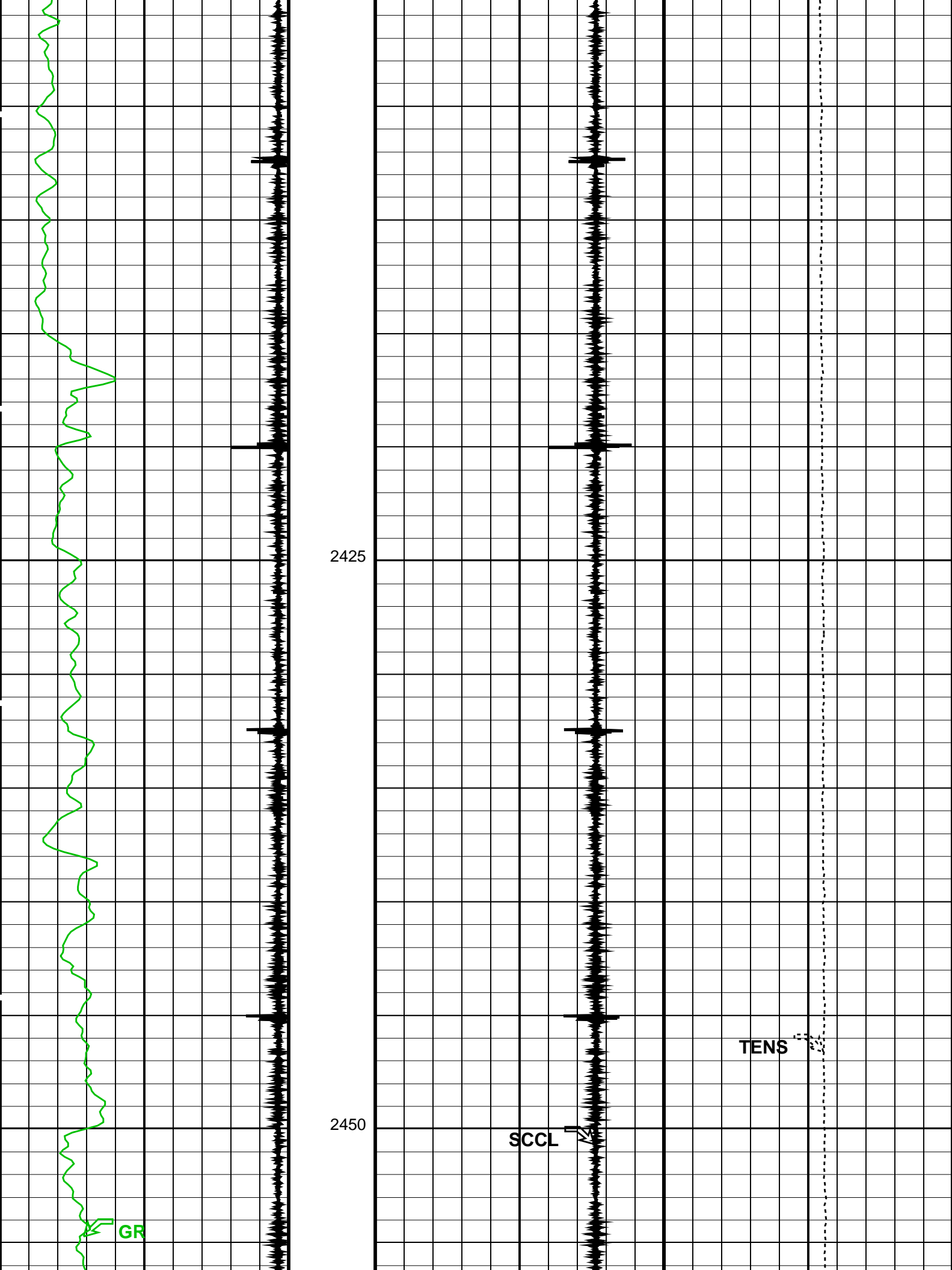


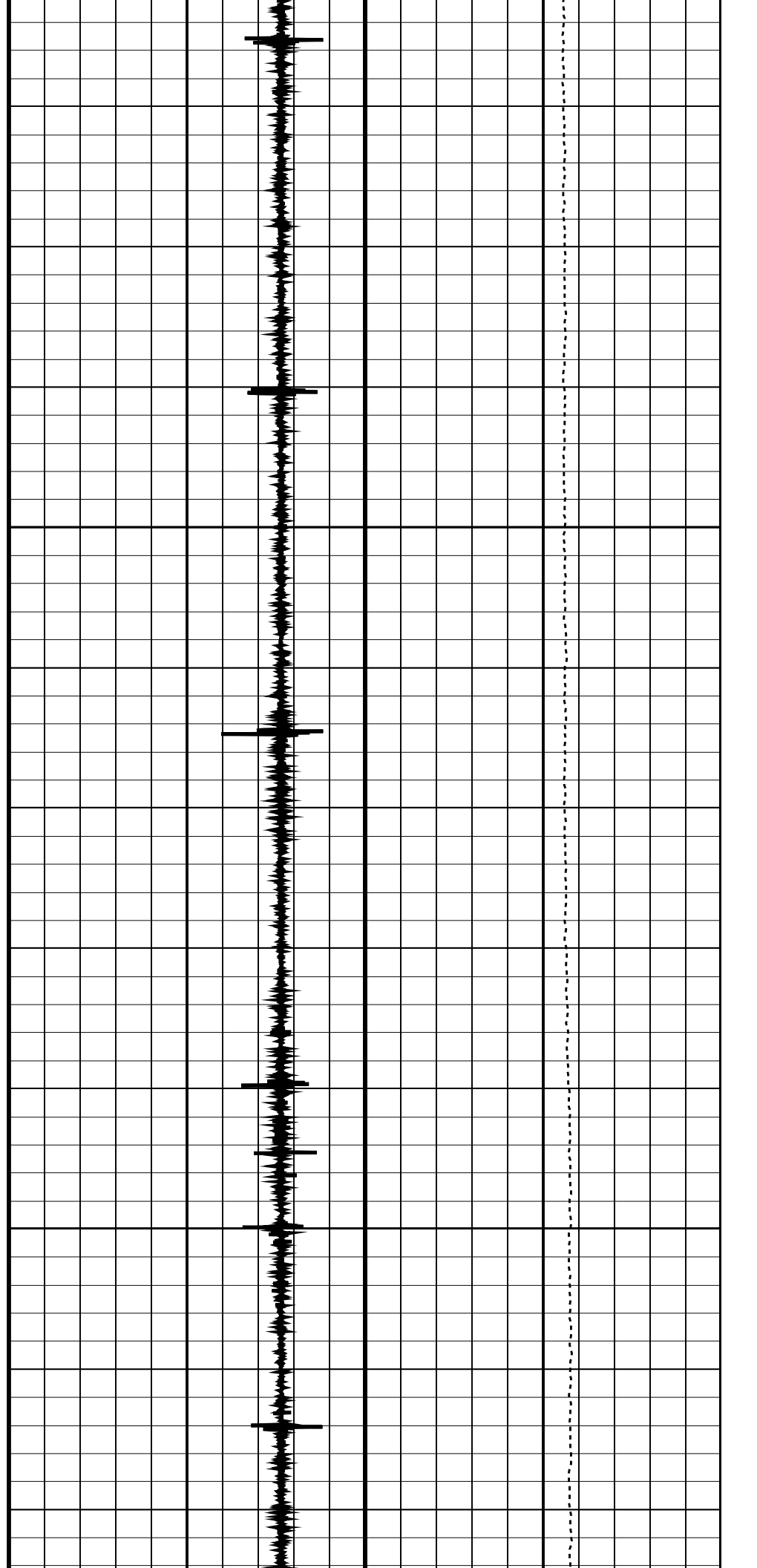
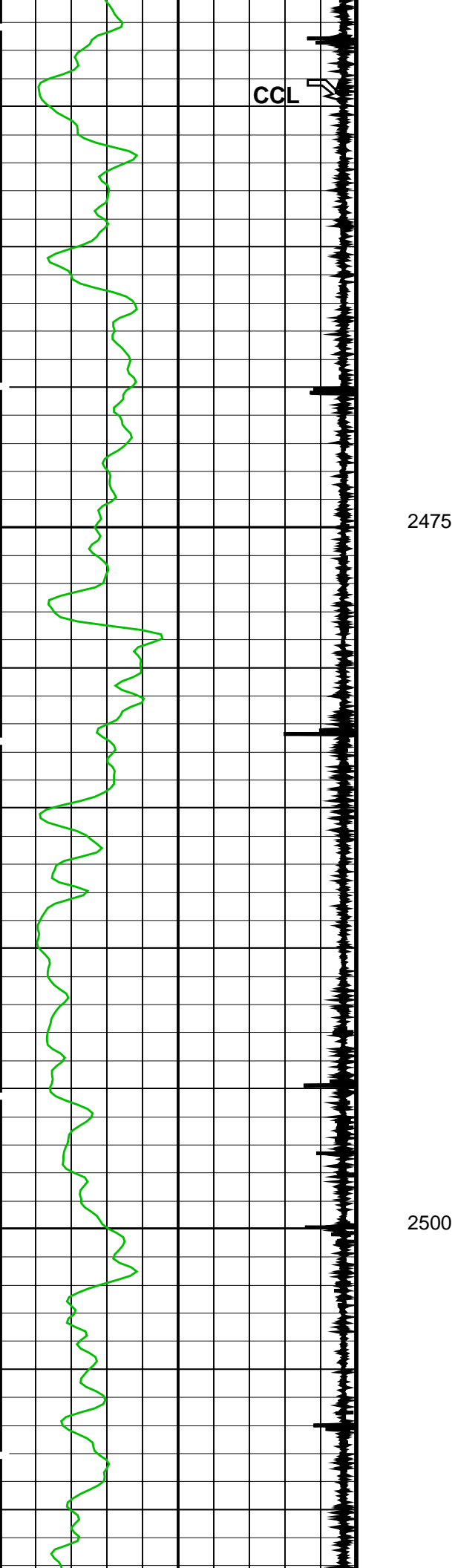


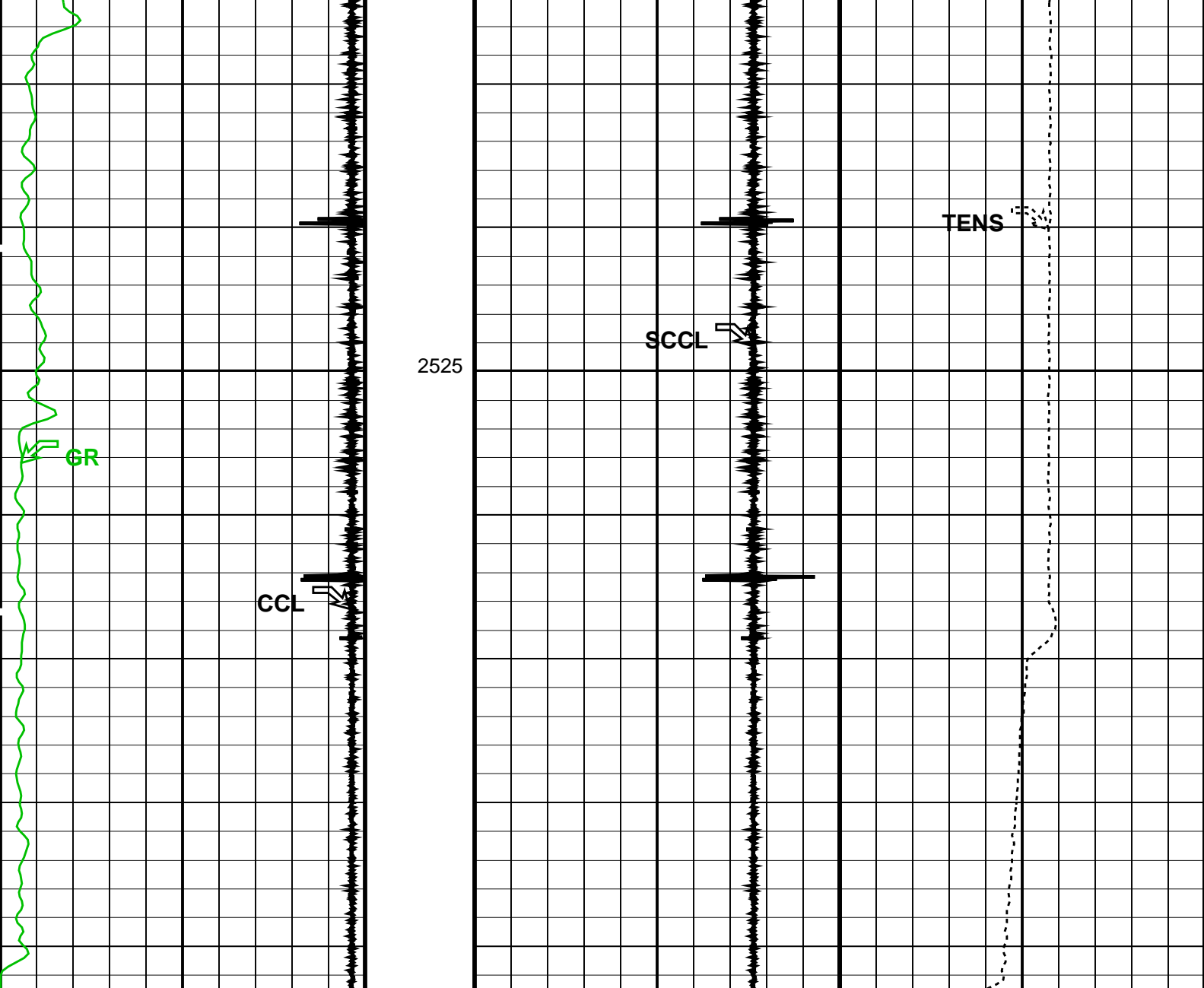












Gamma Ray (GR) (GAPI)		0	150
Casing Collar Locator (CCL)		-19	1

Shifted Casing Collar Locator (SCCL)		-10	10
Tension (TENS)		0	5000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	0.0 M
	Playback Processing	RECOMPUTE

Format: PERFO    Vertical Scale: 1:200    Graphics File Created: 26-Aug-2006 10:58

OP System Version: 14C0-302			
MCM			
SHM_GUN	14C0-302	PGGT-D	14C0-302

Input DLIS Files					
DEFAULT	PERFO_008LUP	FN:7	PRODUCER	26-Aug-2006 10:29	2546.5 M    2198.4 M

# Output DLIS Files

DEFAULT

PERFO\_009PUP

FN:8

PRODUCER

26-Aug-2006 10:58

**Schlumberger**

## 4 1/2" HSD Powerjet Omega Correlation Pass

MAXIS Field Log

# Output DLIS Files

DEFAULT

PERFO\_015LUP

FN:14

PRODUCER

26-Aug-2006 16:12

2500.4 M

2372.7 M

## OP System Version: 14C0-302 MCM

SHM\_GUN

14C0-302

PGGT-D

14C0-302

### PIP SUMMARY

Time Mark Every 60 S

Casing Collar Locator (CCL)

-19 (----) 1

Gamma Ray (GR)

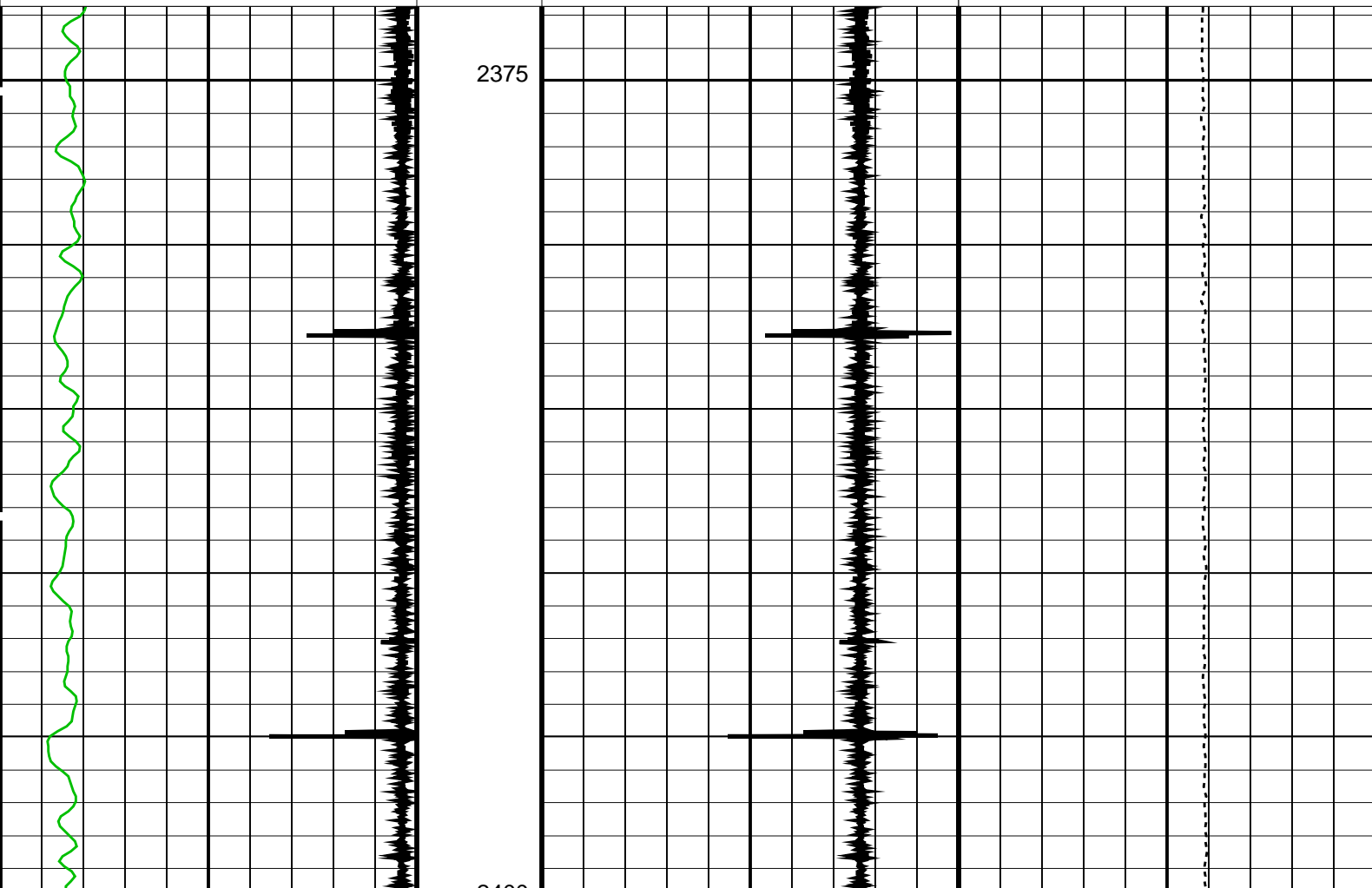
0 (GAPI) 150

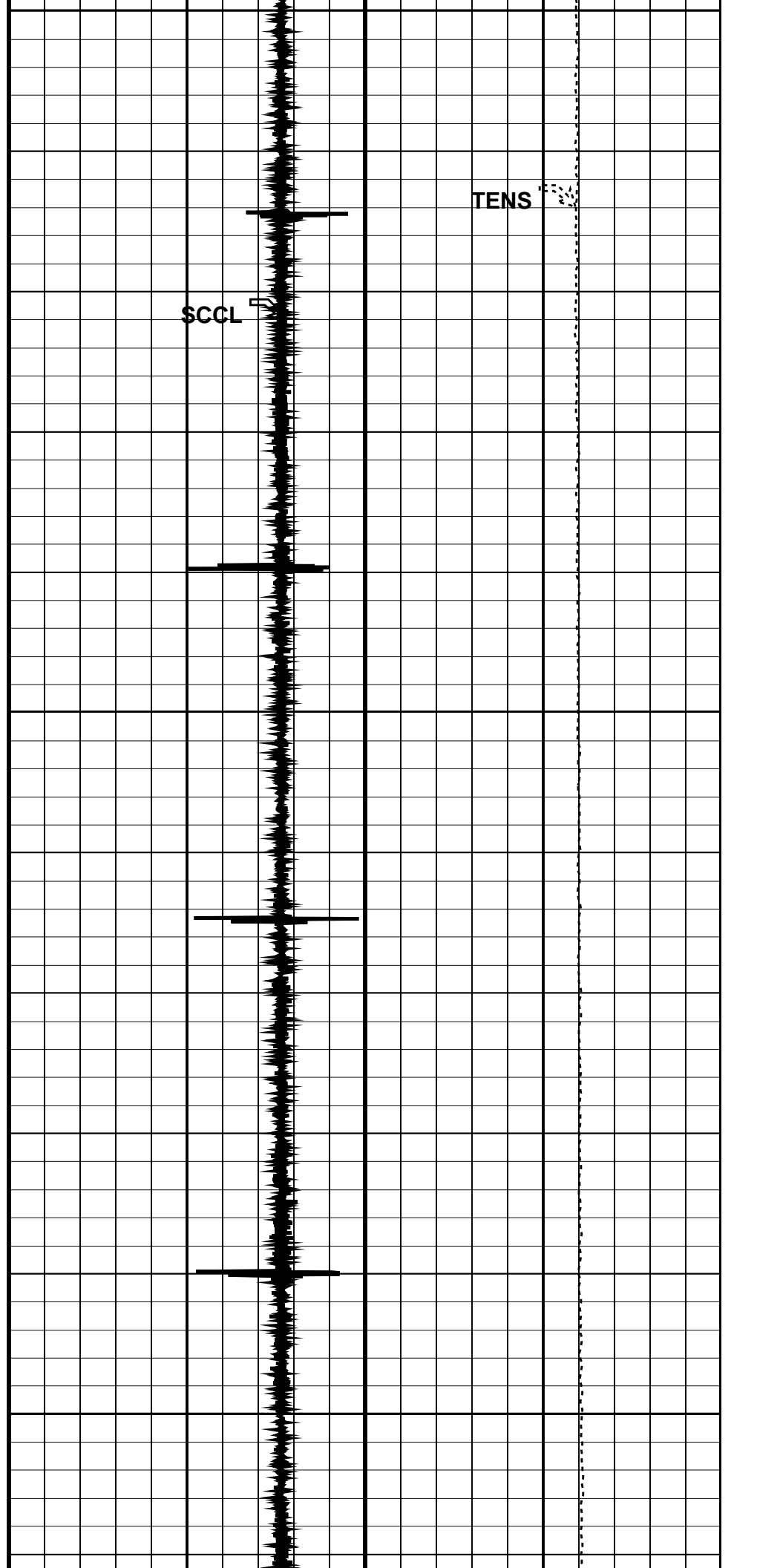
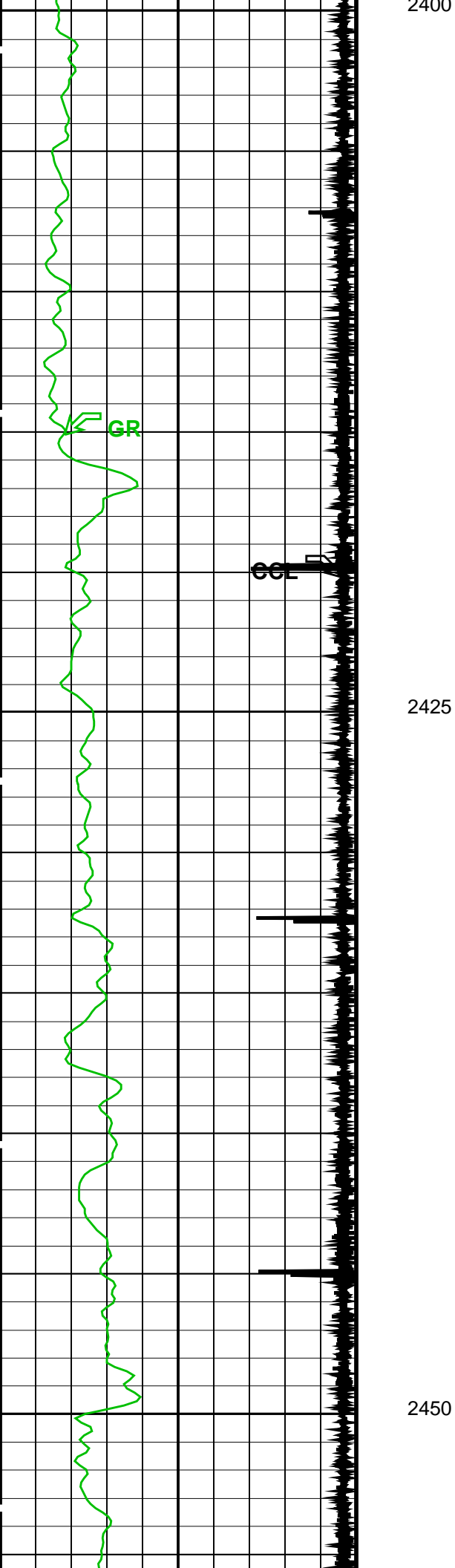
Shifted Casing Collar Locator (SCCL)

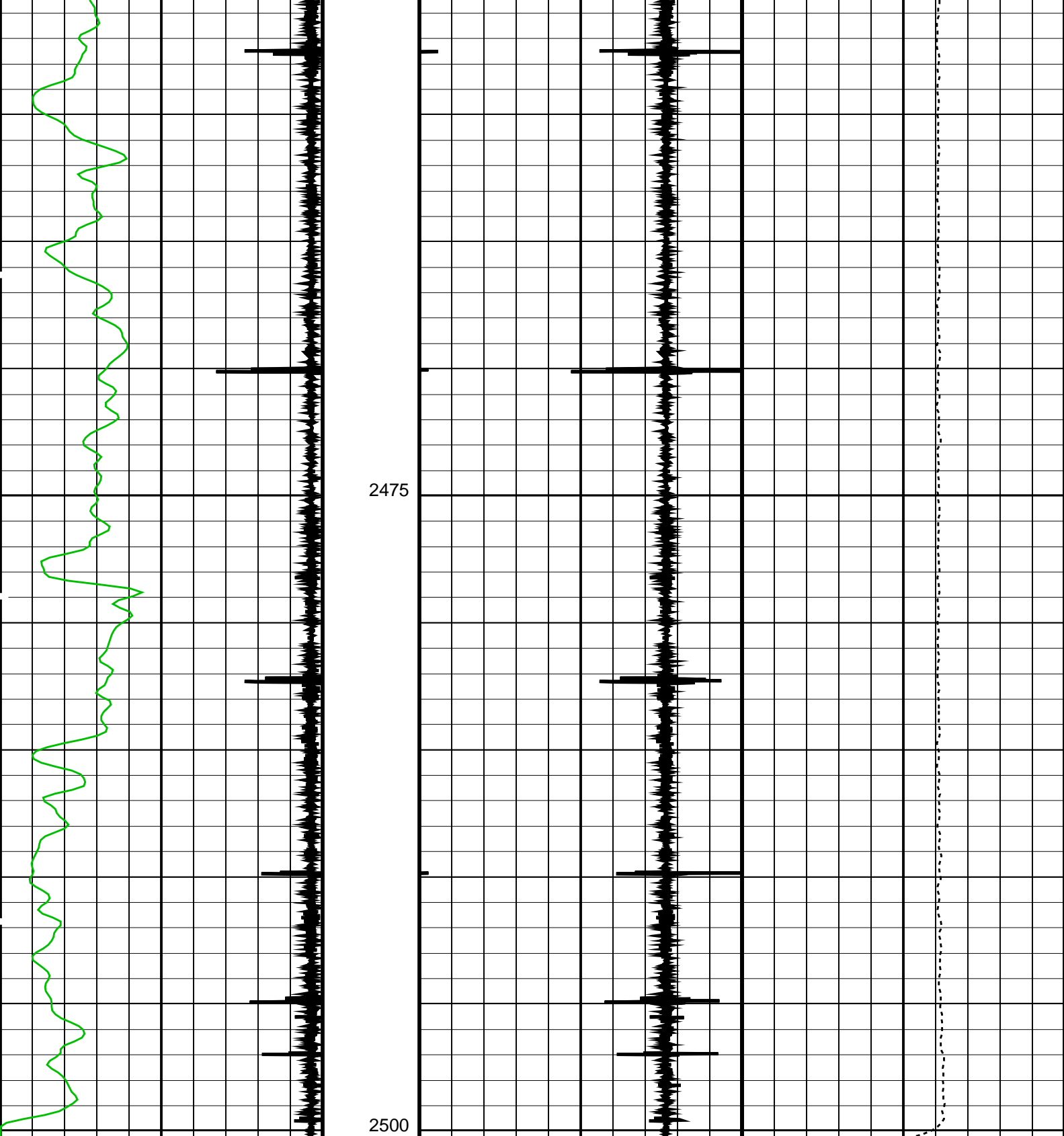
-10 (----) 10 0

Tension (TENS)

(LBF) 5000







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

SHM\_GUN14C0-302PGGT-D14C0-302

Output DLIS Files

DEFAULTPERFO\_015LUPFN:14PRODUCER26-Aug-2006 16:12

Schlumberger

4 1/2" HSD Powerjet Omega Shooting Pass

MAXIS Field Log

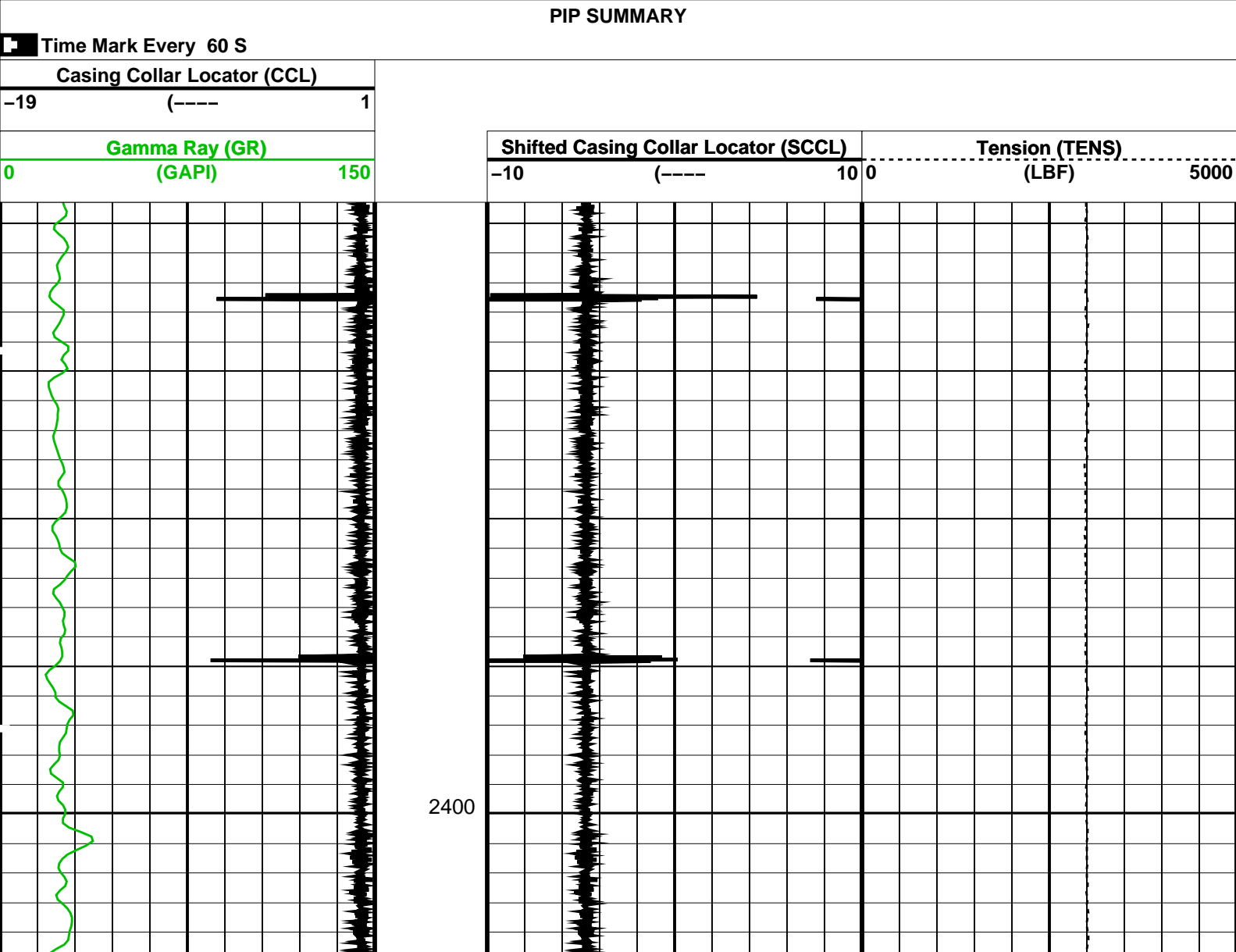
Output DLIS Files

DEFAULTPERFO\_016LUPFN:15PRODUCER26-Aug-2006 16:342500.0 M2379.1 M

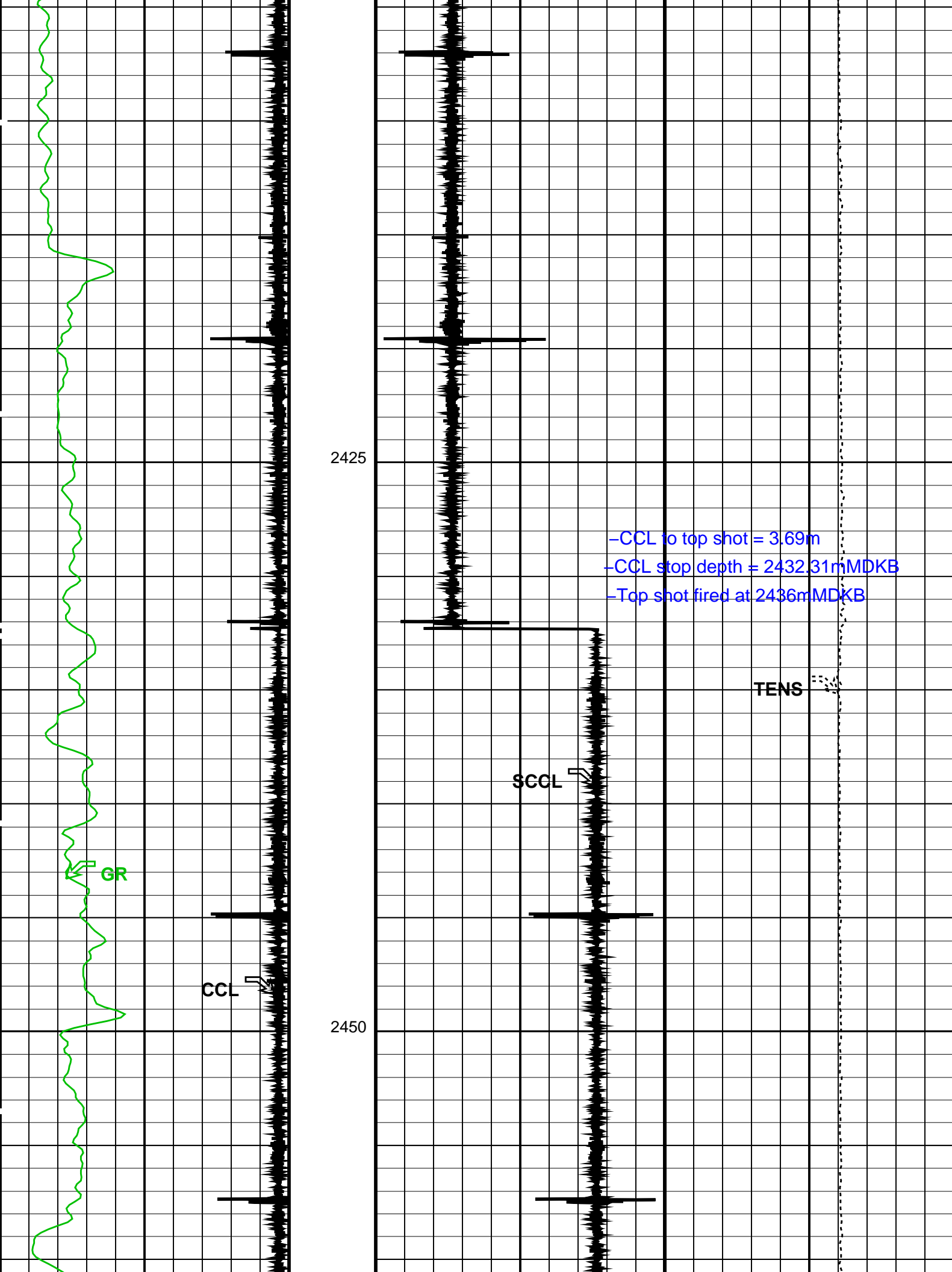
OP System Version: 14C0-302

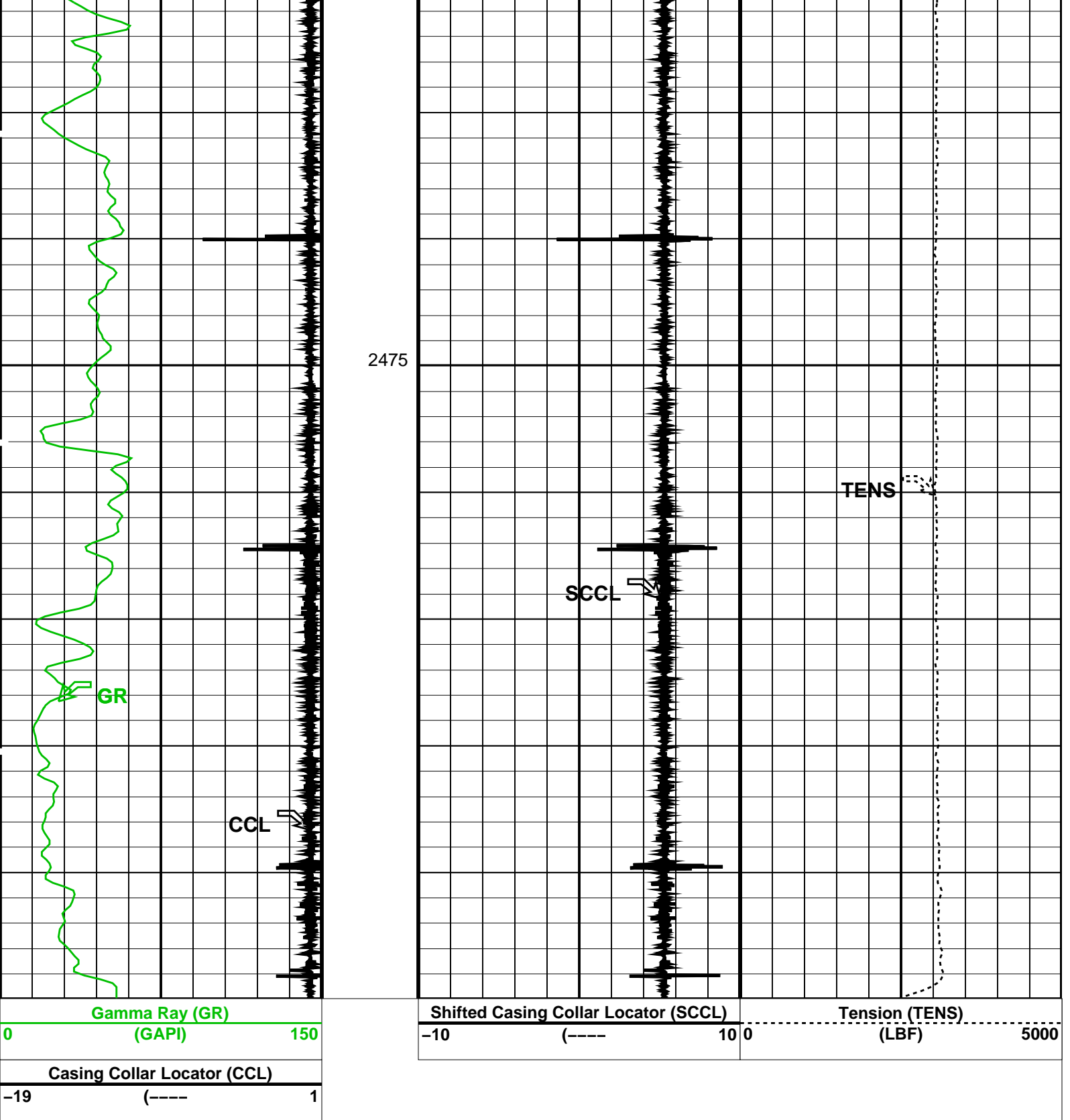
MCM

SHM\_GUN14C0-302PGGT-D14C0-302









### PIP SUMMARY

Time Mark Every 60 S

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 26-Aug-2006 16:34

OP System Version: 14C0-302  
MCM

SHM\_GUN

14C0-302

PGGT-D

14C0-302

### Output DLIS Files

DEFAULT

PERFO\_016LUP

FN:15

PRODUCER

26-Aug-2006 16:34

# Gamma Ray Log Tubing Correlation

MAXIS Field Log

## Input DLIS Files

DEFAULT	PERFO_023LUP	FN:22	PRODUCER	28-Aug-2006 14:52	2478.5 M	2268.5 M
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## Output DLIS Files

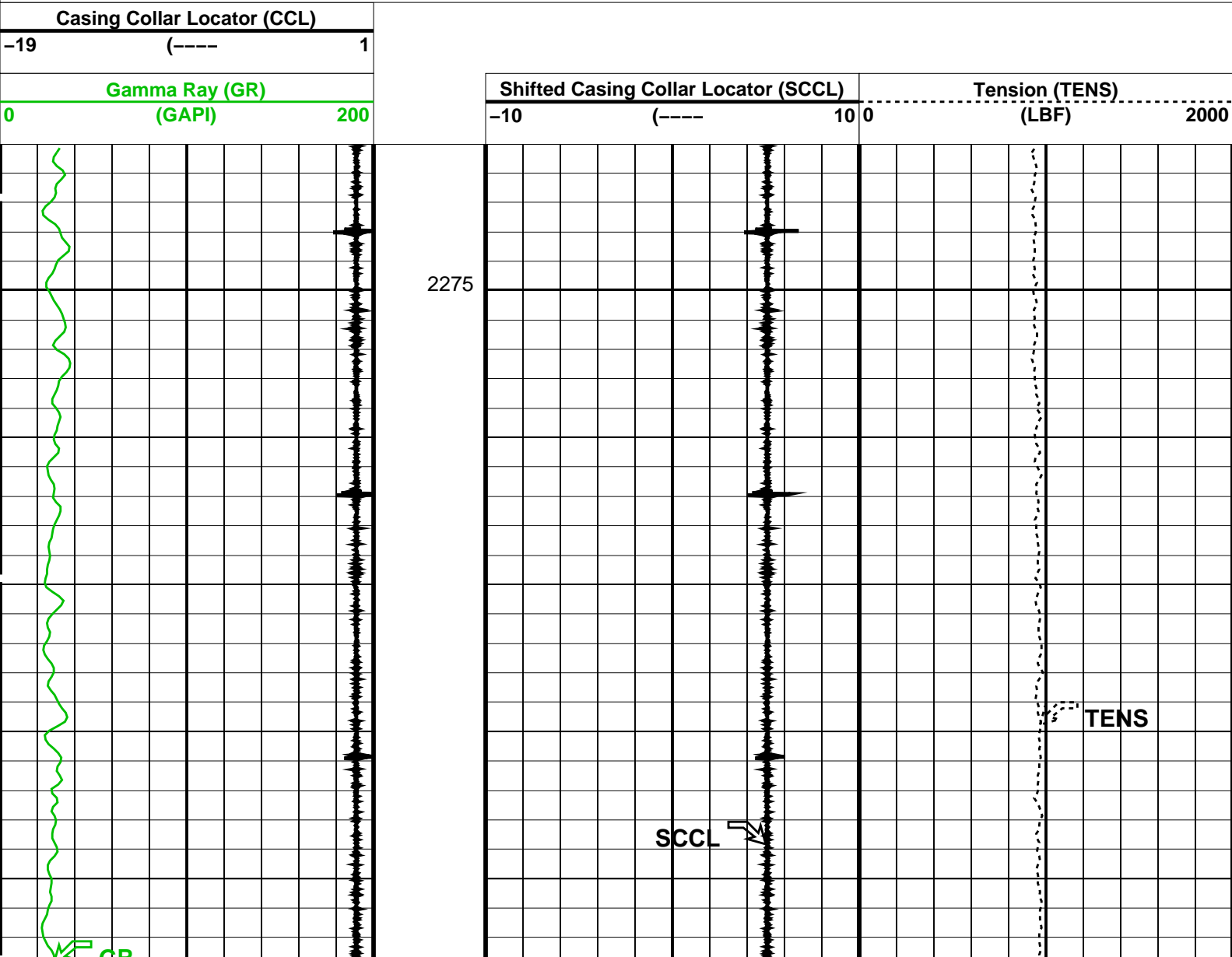
DEFAULT	PERFO_024PUP	FN:23	PRODUCER	28-Aug-2006 15:17	2479.5 M	2270.0 M
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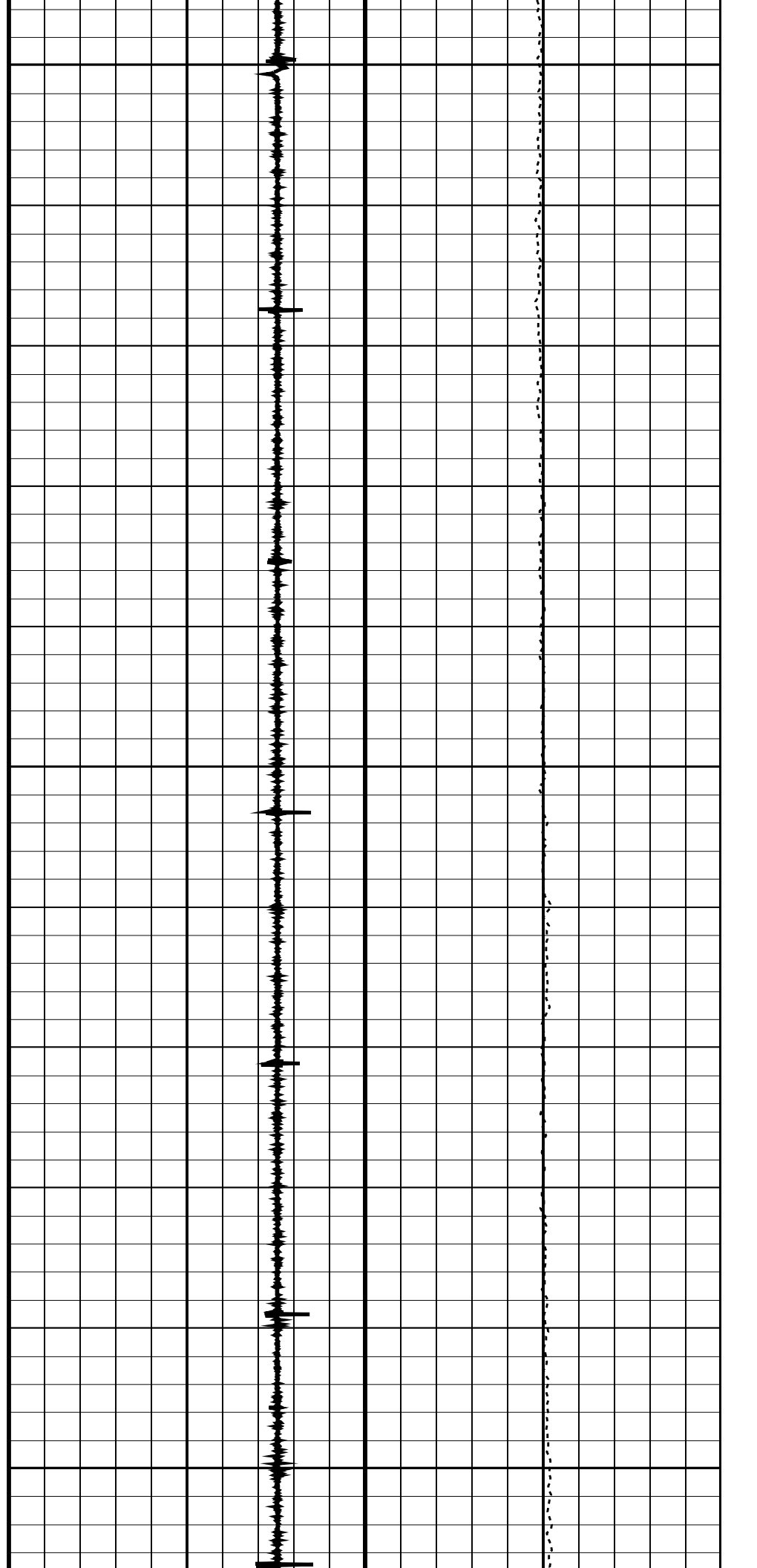
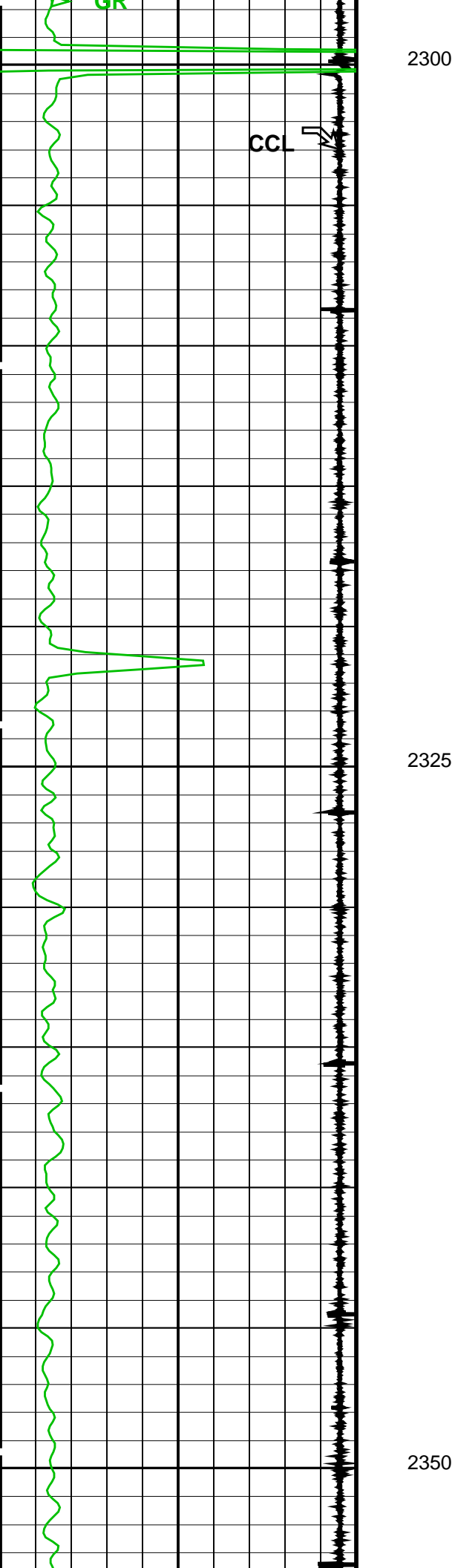
**OP System Version: 14C0-302**  
MCM

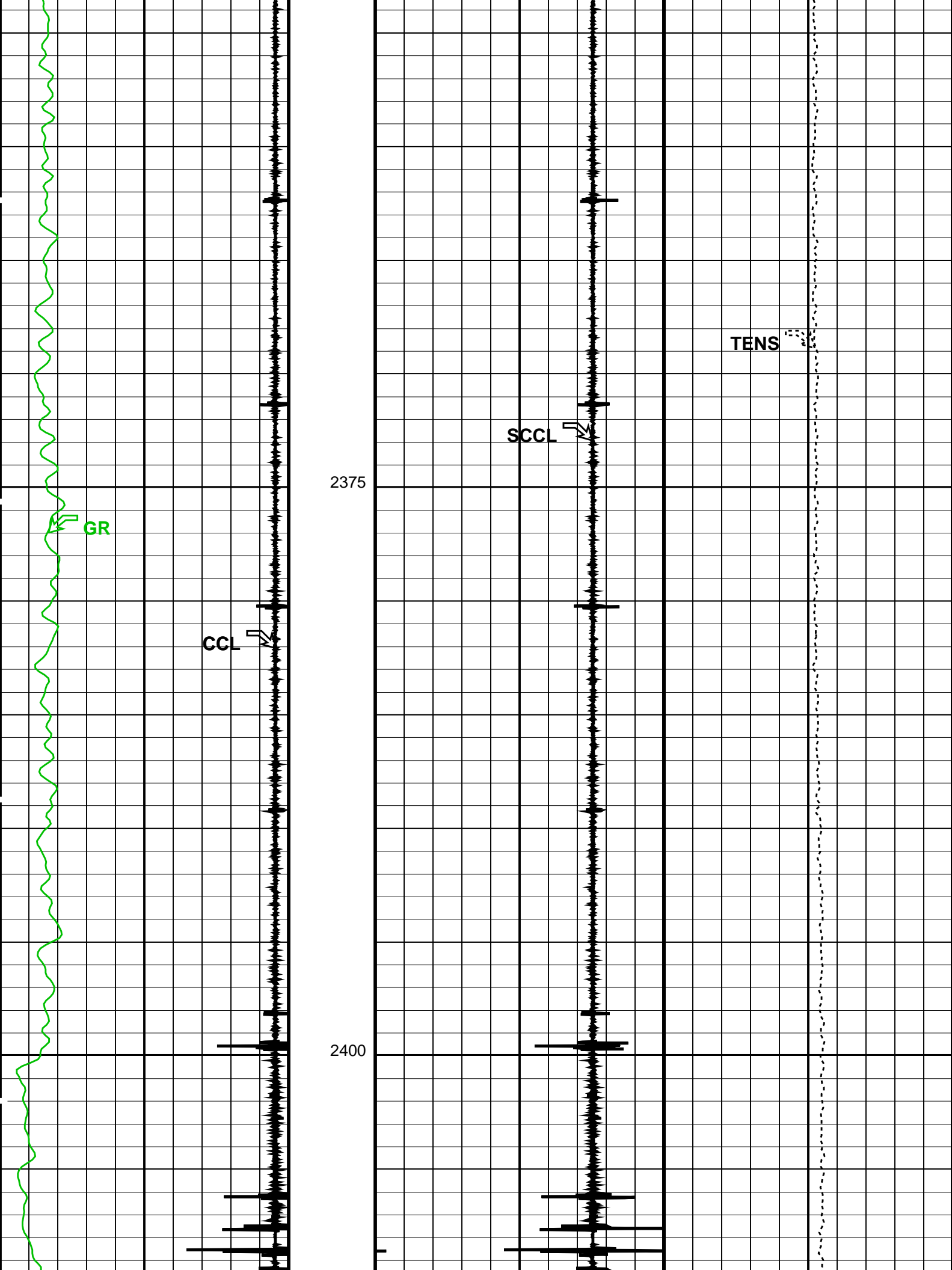
SHM_GUN	14C0-302	PGGT-CC	14C0-302
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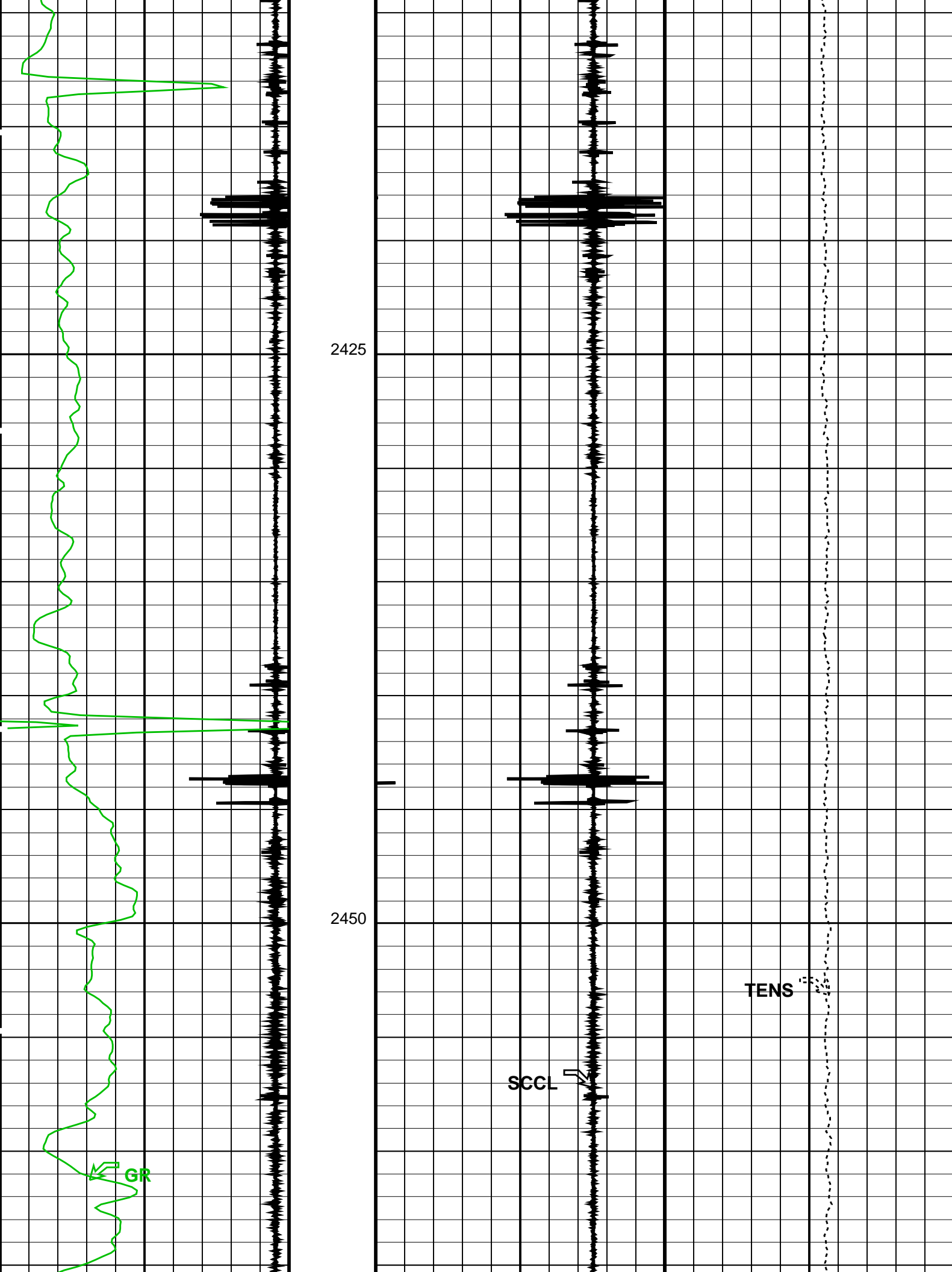
## PIP SUMMARY

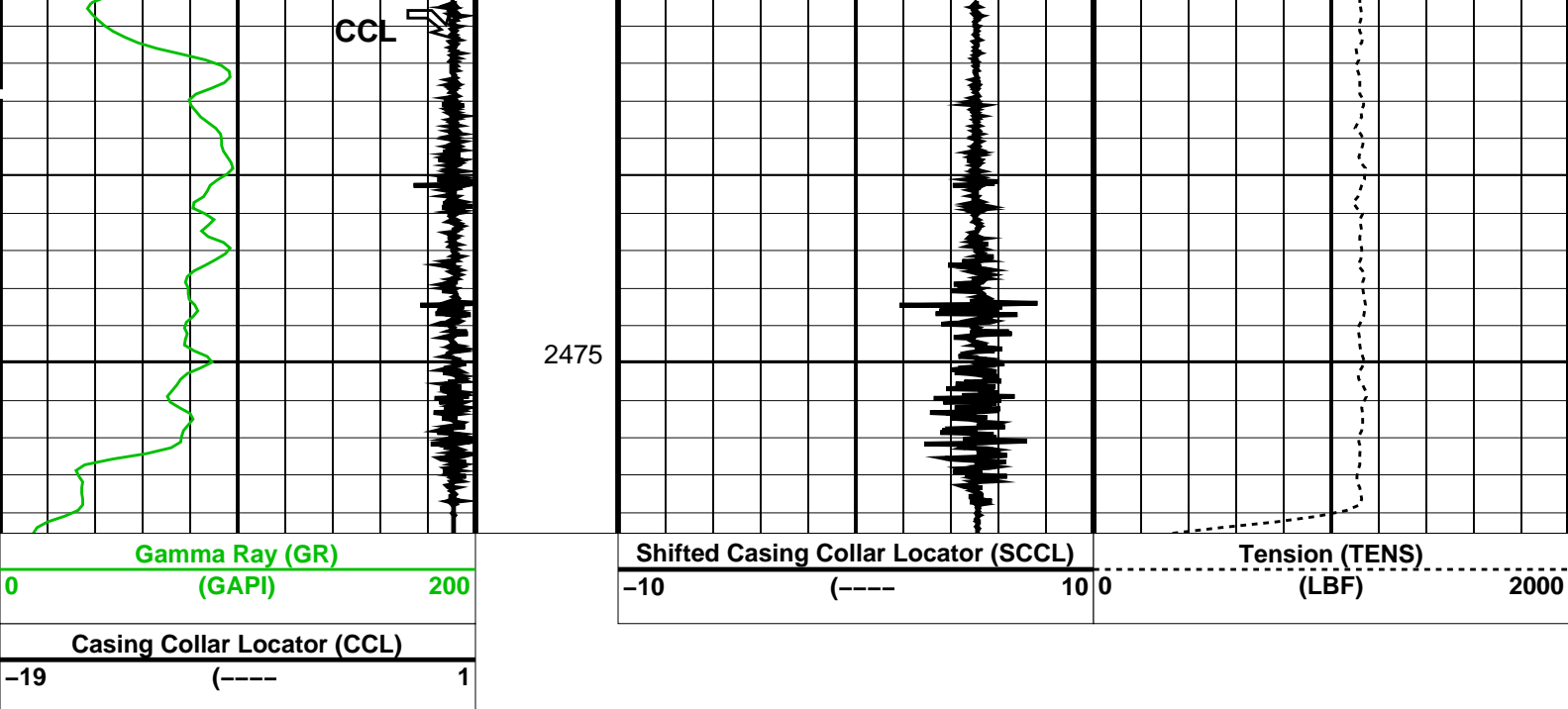
☒ Time Mark Every 60 S











### PIP SUMMARY

Time Mark Every 60 S

### Parameters

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

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 28-Aug-2006 15:17

### OP System Version: 14C0-302

MCM

SHM\_GUN 14C0-302 PGGT-CC 14C0-302

### Input DLIS Files

DEFAULT PERFO\_023LUP FN:22 PRODUCER 28-Aug-2006 14:52 2478.5 M 2268.5 M

### Output DLIS Files

DEFAULT PERFO\_024PUP FN:23 PRODUCER 28-Aug-2006 15:17

Company: Esso Australia Ltd.

**Schlumberger**

Well: WKF W-21a  
Field: West Kingfish  
Rig: ISDL 453/ Prod 3  
Country: Australia

Junk Basket-GR-CCL  
4 1/2 HSD Powerjet Omega  
Perforating Record