

Company: Esso Australia Pty Ltd

Well: CBA A33

Field: Cobia

Rig: Rig 175

Country: Australia

Junk Basket with 6" Gauge Ring
4 1/2" HSD Perforation Record
27-Jun-2009

Rig: Rig 175

Field: Cobia

Location: Bass Strait

Well: CBA A33

Company: Esso Australia Pty Ltd

LOCATION

Bass Strait

Gippsland

Basin

Elev.: K.B. 40.99 m

G.L. -79.00 m

D.F. 40.99 m

Permanent Datum: GROUND LEVEL

Elev.: 40.99 m

Log Measured From: RT

-40.99 m above Perm. Datum

Drilling Measured From: RT

State: Victoria

Max. Well Deviation 16 deg

Longitude 148° 18'33.005"E

Latitude 038°26'57.568"S

Logging Date	26-Jun-2009			
Run Number	1			
Depth Driller	2579 m			
Schlumberger Depth	2547.3 m			
Bottom Log Interval	2467 m			
Top Log Interval	2464.5 m			
Casing Fluid Type	Sea Water			
Salinity				
Density	8.55 g/cm3			
Fluid Level	0 m			
BIT/CASING/TUBING STRING				
Bit Size	8.500 in			
From	589 m			
To	2579 m			
Casing/Tubing Size	7.000 in			
Weight	26 lbm/ft			
Grade	L-80			
From	12 m			
To	2551 m			
Maximum Recorded Temperatures	0 degC			
Logger On Bottom	27-Jun-2009		1:40	
Unit Number	3929	AUSL		
Recorded By	O. Darby			
Witnessed By	Greg Doty & Richard Moore			

PVT DATA				Run 1	Run 2	R
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation				16 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						

Date Created: 28-JUN-2009 1:41:11

Logging Cable

Type:	7-46ZV XS
Serial Number:	708145
Length:	7005 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Cobia A33
Reference Log Run Number:	Not Provided
Reference Log Date:	Not Provided
Subsequent Trip Down Log Correction:	

1. IDW used as primary depth control.
2. Z-chart used as backup
3. Correlated to GR peaks located @ 2460 – 2480m MDKB
4. All depths are drillers depths
- 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.

OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 2

RIH with Junk Basket to HUD to ensure access to a min of 2505 MDKB
for HSD gun, POOH, RIH with GR/CCL/ 4 1/2" HSD 12 Spf, 135/45 deg phased
perforating gun. Correlate on depth to LDW log, locate top shot @ 2464.5m and
perforate well, POOH, RIH with 6" Junk basket to ensure access through



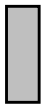







perforations. Rig up slimhole GR/CCL RIH through tubing and correlate packer pip tags to casing for confirmation of blast joint placement.

- Maximum well deviation 16 deg @ 2032m MDKB.
- HUD tagged @ 2547m MDKB with Junk Basket.

Days: Brendan G & Daniel H
Nghts: Kevin Kerr & Ben T

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
WITM (SHM)			WITM (SHM)		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
<div>PEH-A PEH-A 11</div> <div>AH-64 AH-64 8001</div> <div>PGGT-D PGGC 6 PGGH-D 6</div> <div>Gamma Ray</div> <div>Casing Co Tension</div>		4.46	PEH-A PEH-A 11		6.95
		3.92	AH-64 AH-64 8001		6.40
		3.51	PGGT-D PGGC 6 PGGH-D 6		6.00
		1.07	Gamma Ray		1.07
		TOOL ZERO	Casing Co Tension		TOOL ZERO
			AH-283 AH-283 5002		4.21
			AH-WPSA-AA AH-WPSA-AA		4.06
			AH-Dual Port firing head AH-Dual Port firing head		3.46
			SHM GUN-4 1/2" HSD Gun		3.15

Descent 2: GUN/PGGD

Begin Descent	27-Jun-2009	9:00				
HSD Gun Run						
Log Pass (up)	27-Jun-2009	9:37	000:07	2515.5 -	2427.3	PERFO_024LUP
Correlation pass						
Log Pass (up)	27-Jun-2009	9:49	000:12	2515.1 -	2407.9	PERFO_026LUP
Shooting pass						
Simulated Log	27-Jun-2009	11:51	000:03			PERFO_029LUP
OP checked toolstring						

Descent 3: GUN/PGGD

Begin Descent	27-Jun-2009	12:00				
Junk Basket Run # 2						
Log Pass (up)	27-Jun-2009	13:43	001:07	2549.2 -	28.0	PERFO_034LUP
Correlation pass						
Simulated Log	28-Jun-2009	2:20	000:02			PERFO_046LUP
Op checked toolstring						

Descent 4: GUN/PGGCC

Begin Descent	28-Jun-2009	17:55				
Depth determination						
Log Pass (up)	28-Jun-2009	18:36	000:07	2478.2 -	2397.3	PERFO_052LUP
Correlation pass						



Depth Determination Packer Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: CBA A33

Input DLIS Files

DEFAULT	PERFO_052LUP	FN:51	PRODUCER	28-Jun-2009 18:36	2478.2 M	2397.3 M
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Output DLIS Files

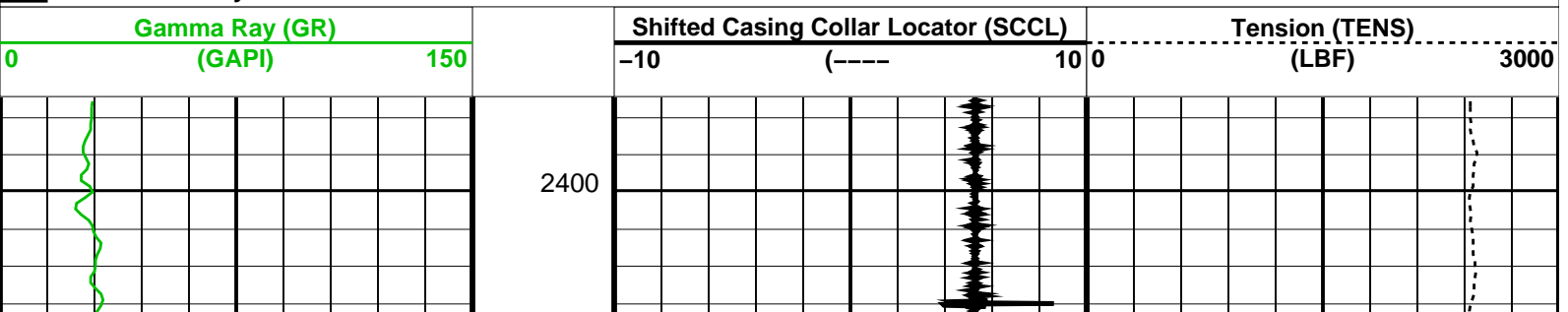
DEFAULT	PERFO_053PUP	FN:52	PRODUCER	28-Jun-2009 18:44	2478.3 M	2397.4 M
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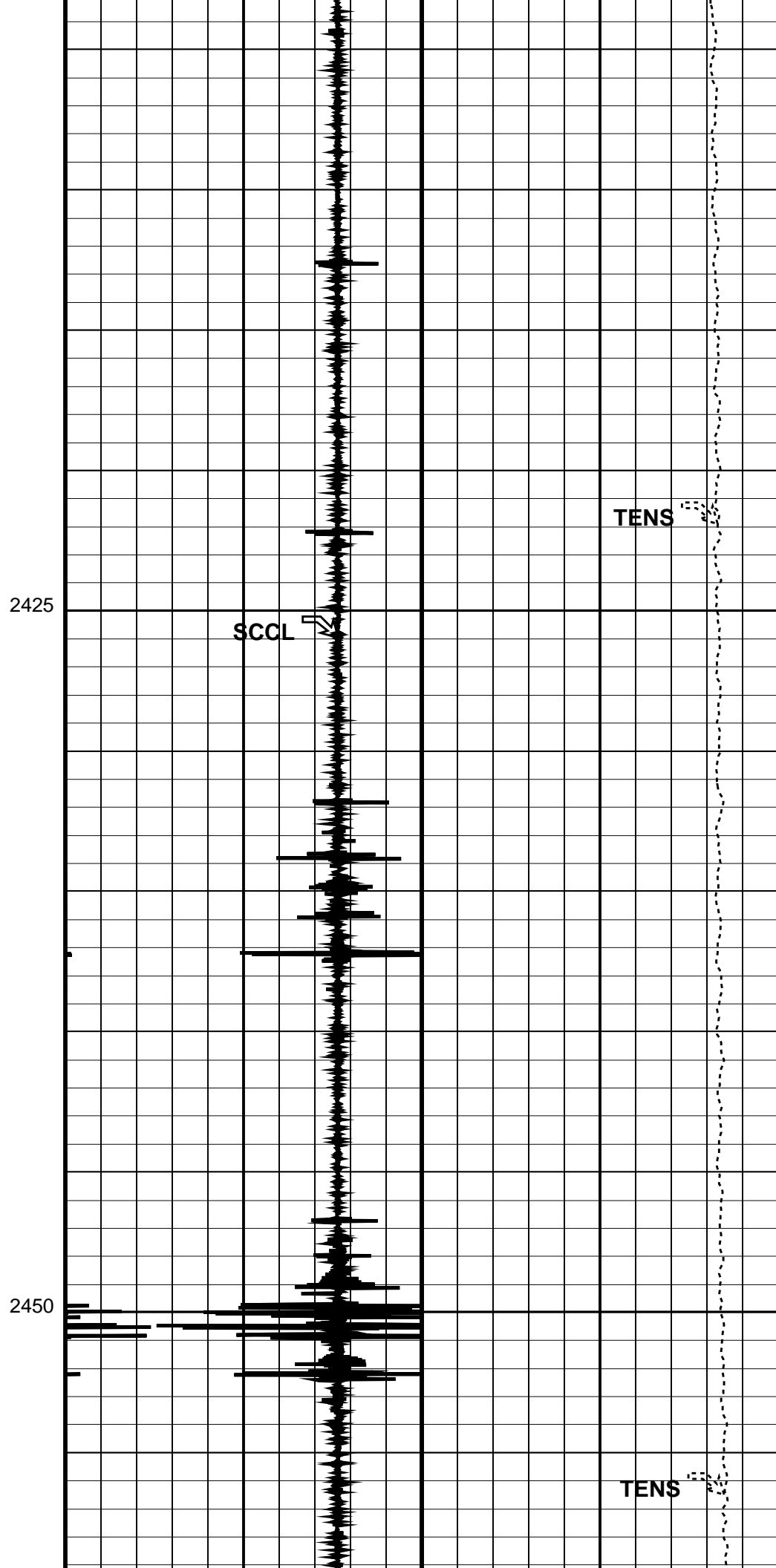
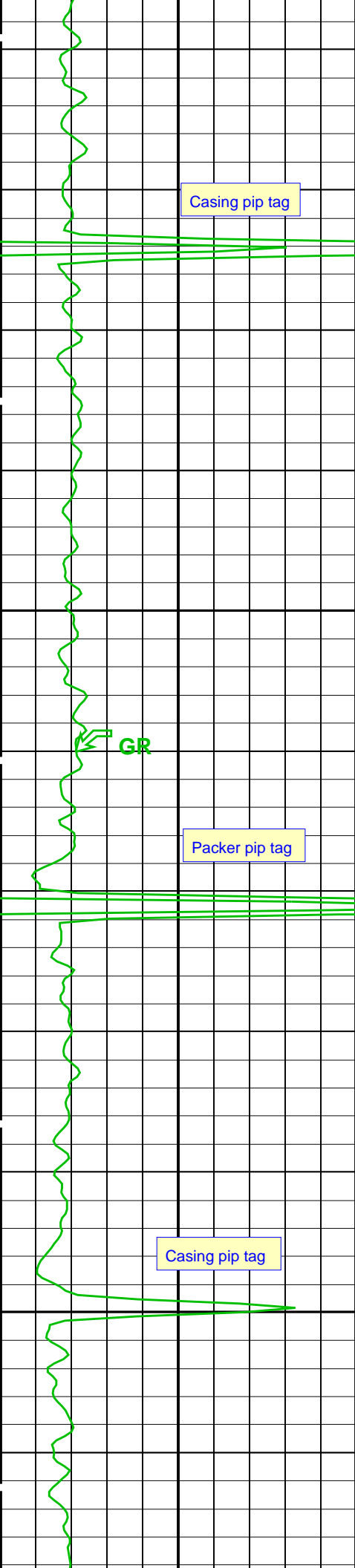
OP System Version: 17C0-154

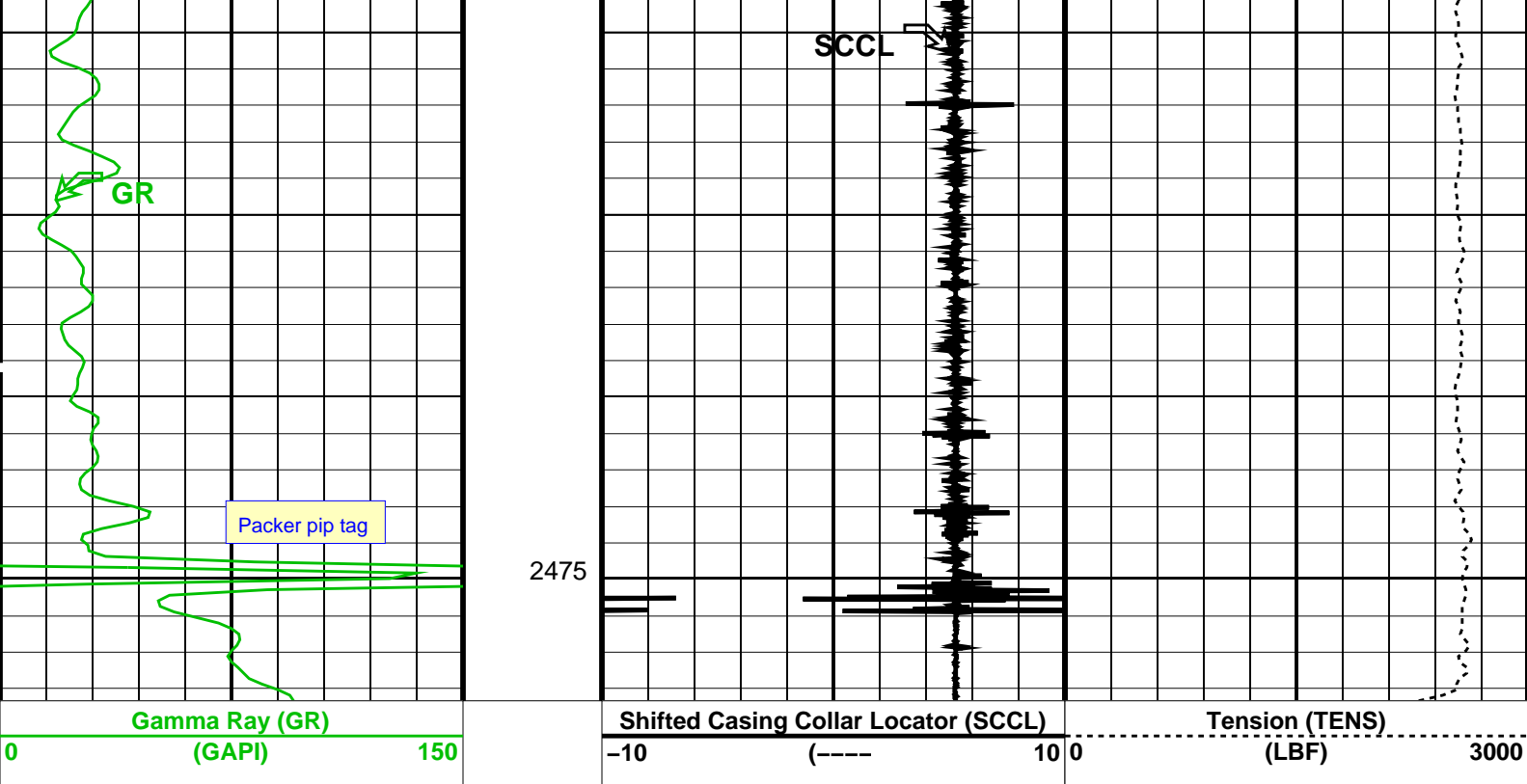
SHM_GUN	17C0-154	PGGT-CC	17C0-154
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PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	0.1 M
PP	Depth Offset for Playback	NORMAL
	Playback Processing	

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 28-Jun-2009 18:44

OP System Version: 17C0-154

SHM_GUN 17C0-154 PGGT-CC 17C0-154

Input DLIS Files

DEFAULT PERFO_052LUP FN:51 PRODUCER 28-Jun-2009 18:36 2478.2 M 2397.3 M

Output DLIS Files

DEFAULT PERFO_053PUP FN:52 PRODUCER 28-Jun-2009 18:44

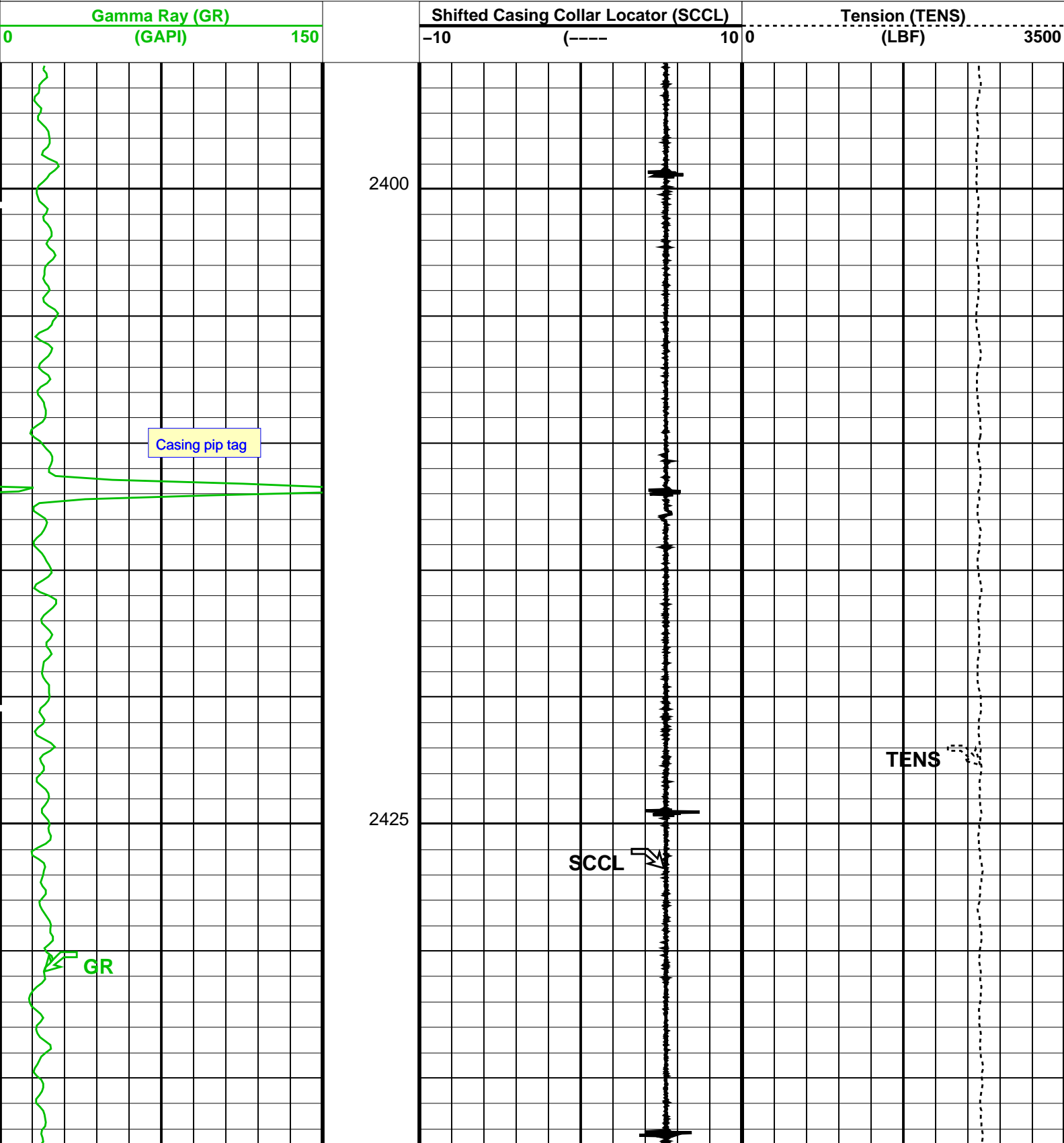
Schlumberger

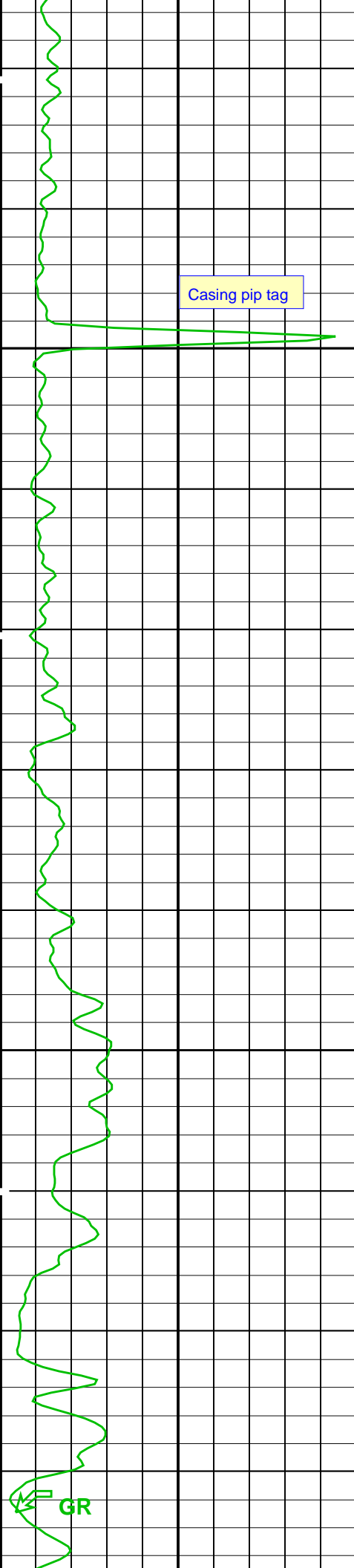
**Junk Basket with 6" Gauge Ring
Correlation Pass / After Perforation**

MAXIS Field Log

PIP SUMMARY

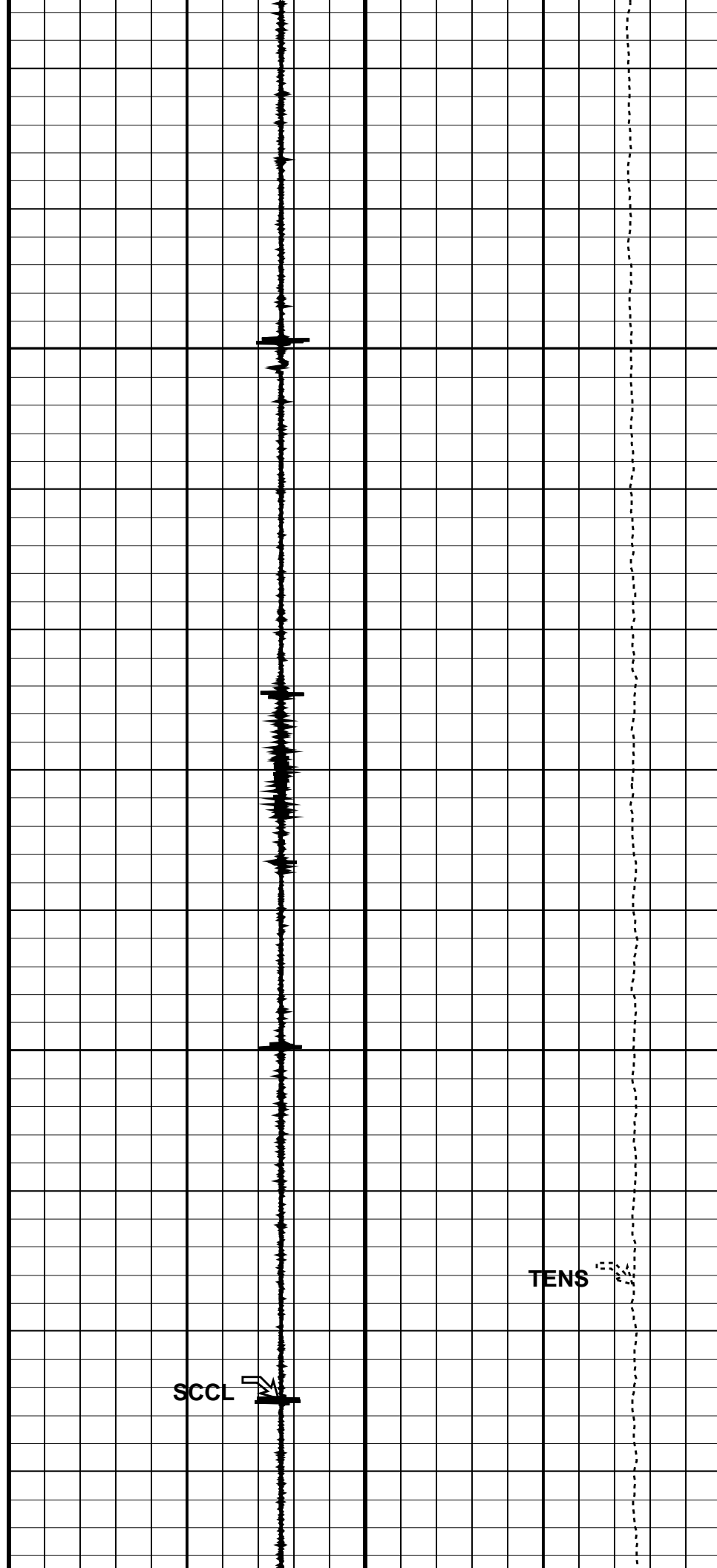
Time Mark Every 60 S

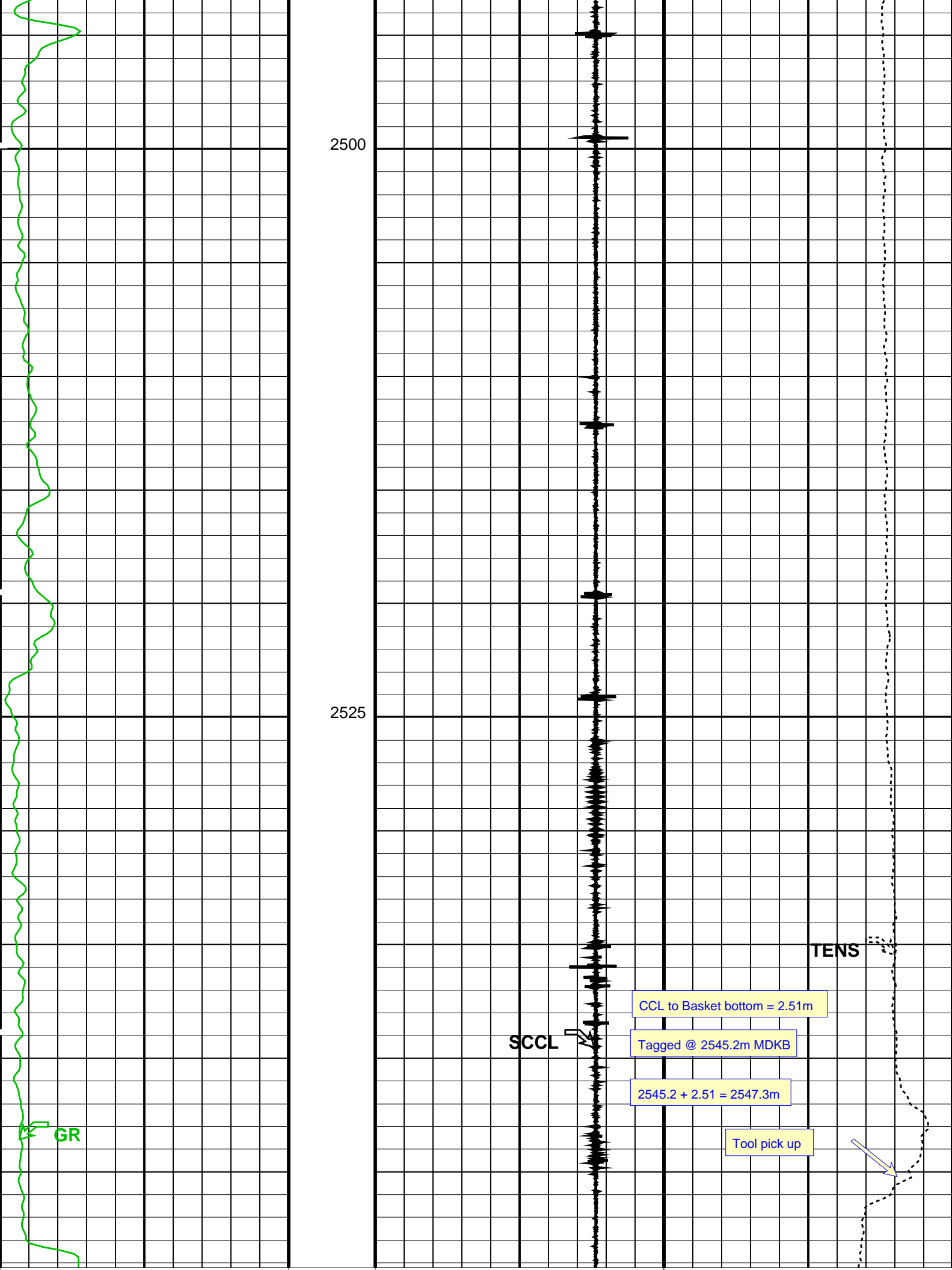




2450

2475





Gamma Ray (GR)			Shifted Casing Collar Locator (SCCL)			Tension (TENS)		
0	(GAPI)	150	-10	(----	10	0	(LBF)	3500


PIP SUMMARY								
Time Mark Every 60 S								

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

Format: PERFO_1	Vertical Scale: 1:200	Graphics File Created: 28-Jun-2009 01:46
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OP System Version: 17C0-154								
SHM_GUN-4	1/2"	PGGT-D	17C0-154					

Input DLIS Files						
DEFAULT	PERFO_034LUP	FN:33	PRODUCER	27-Jun-2009 13:43	2549.2 M	28.0 M
Output DLIS Files						
DEFAULT	PERFO_043PUP	FN:42	PRODUCER	28-Jun-2009 01:46		



4 1/2" HSD Gun
Shooting Pass

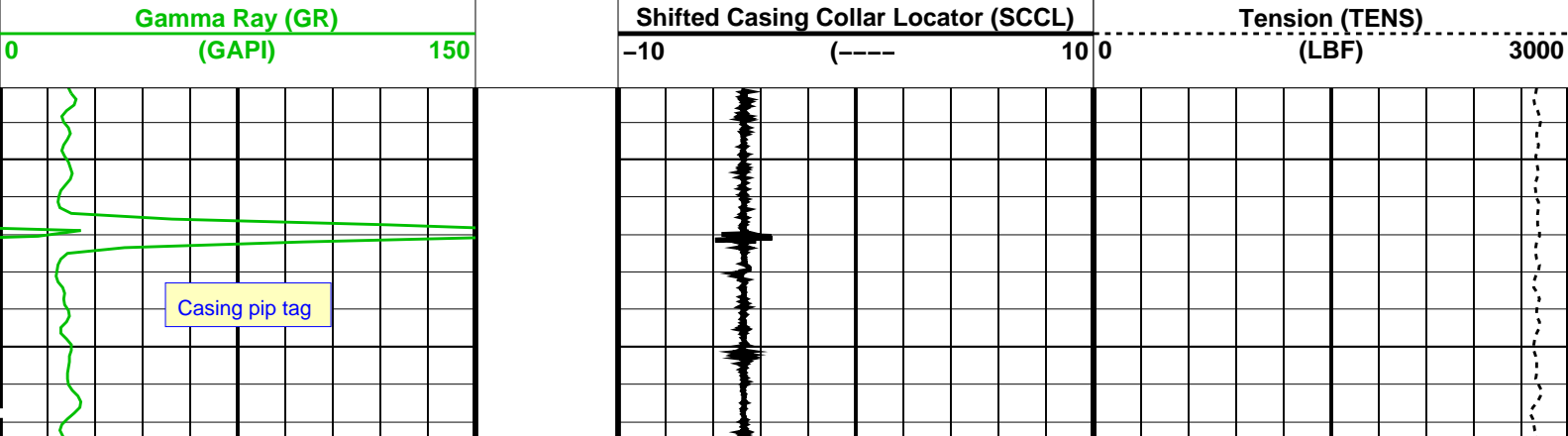
MAXIS Field Log

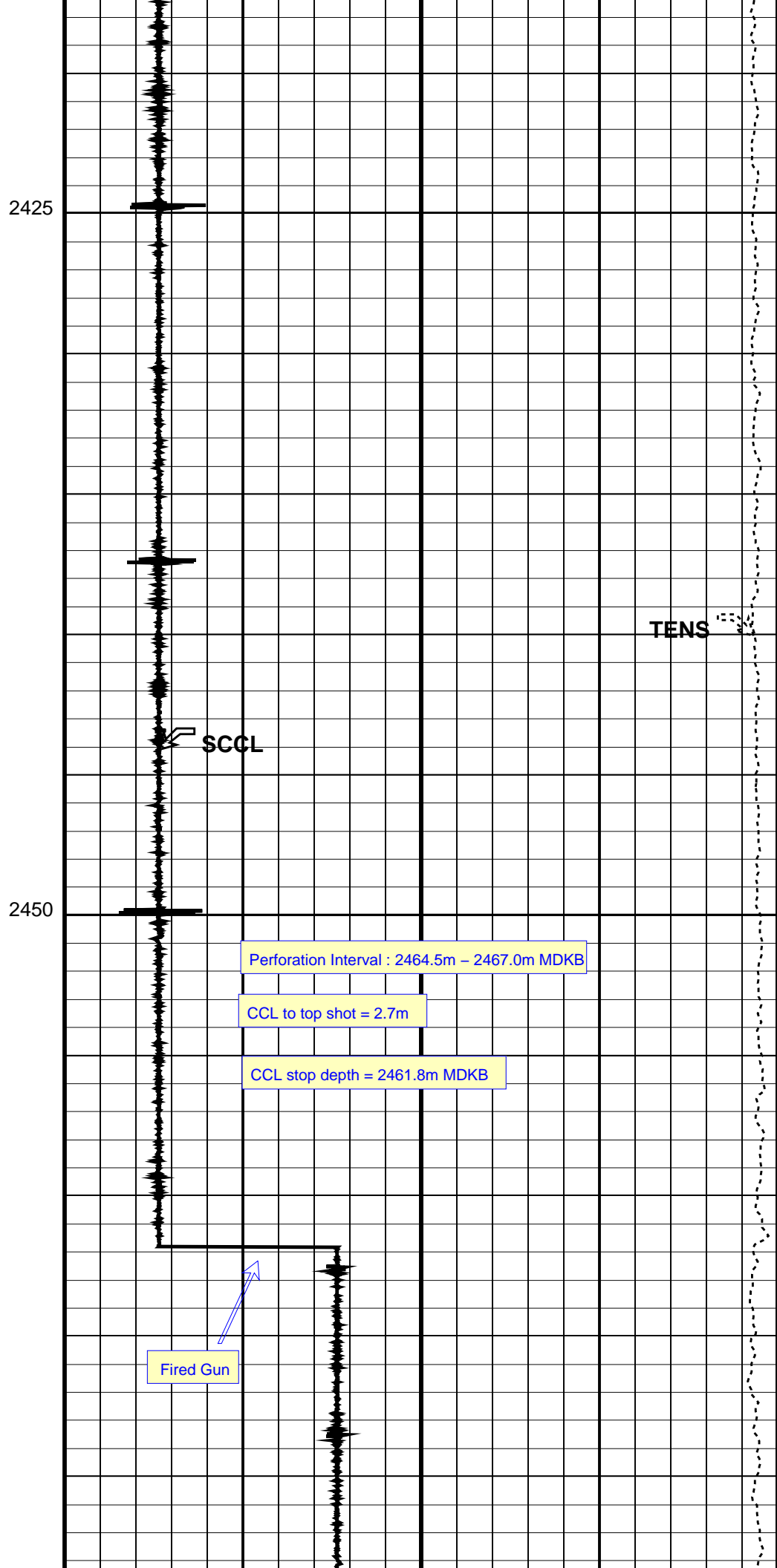
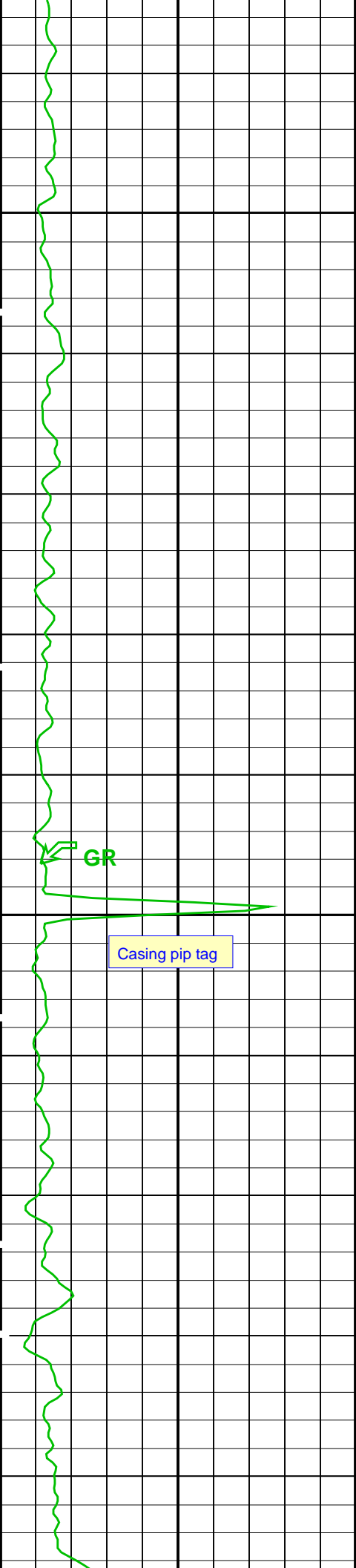
Company: Esso Australia Pty Ltd	Well: CBA A33
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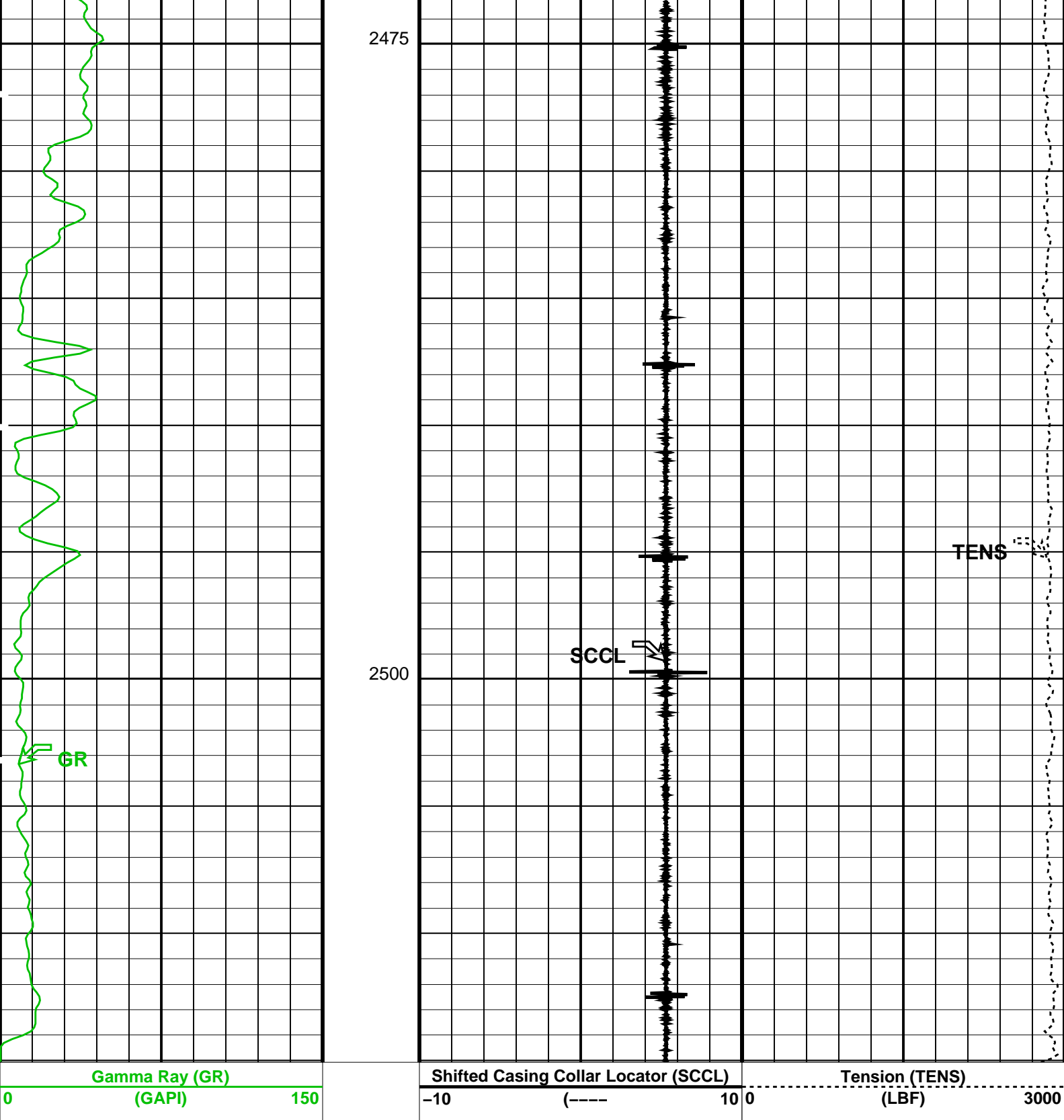
Output DLIS Files								
DEFAULT	PERFO_026LUP	FN:25	PRODUCER	27-Jun-2009 09:49				

OP System Version: 17C0-154								
SHM_GUN	17C0-154	PGGT-D	17C0-154					

PIP SUMMARY								
Time Mark Every 60 S								







PIP SUMMARY

Time Mark Every 60 S

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 27-Jun-2009 09:49

OP System Version: 17C0-154

SHM_GUN

17C0-154

PGGT-D

17C0-154

Output DLIS Files

DEFAULT

PERFO_026LUP

FN:25

PRODUCER

27-Jun-2009 09:49

Company: Esso Australia Pty Ltd

Well: CBA A33

Output DLIS Files

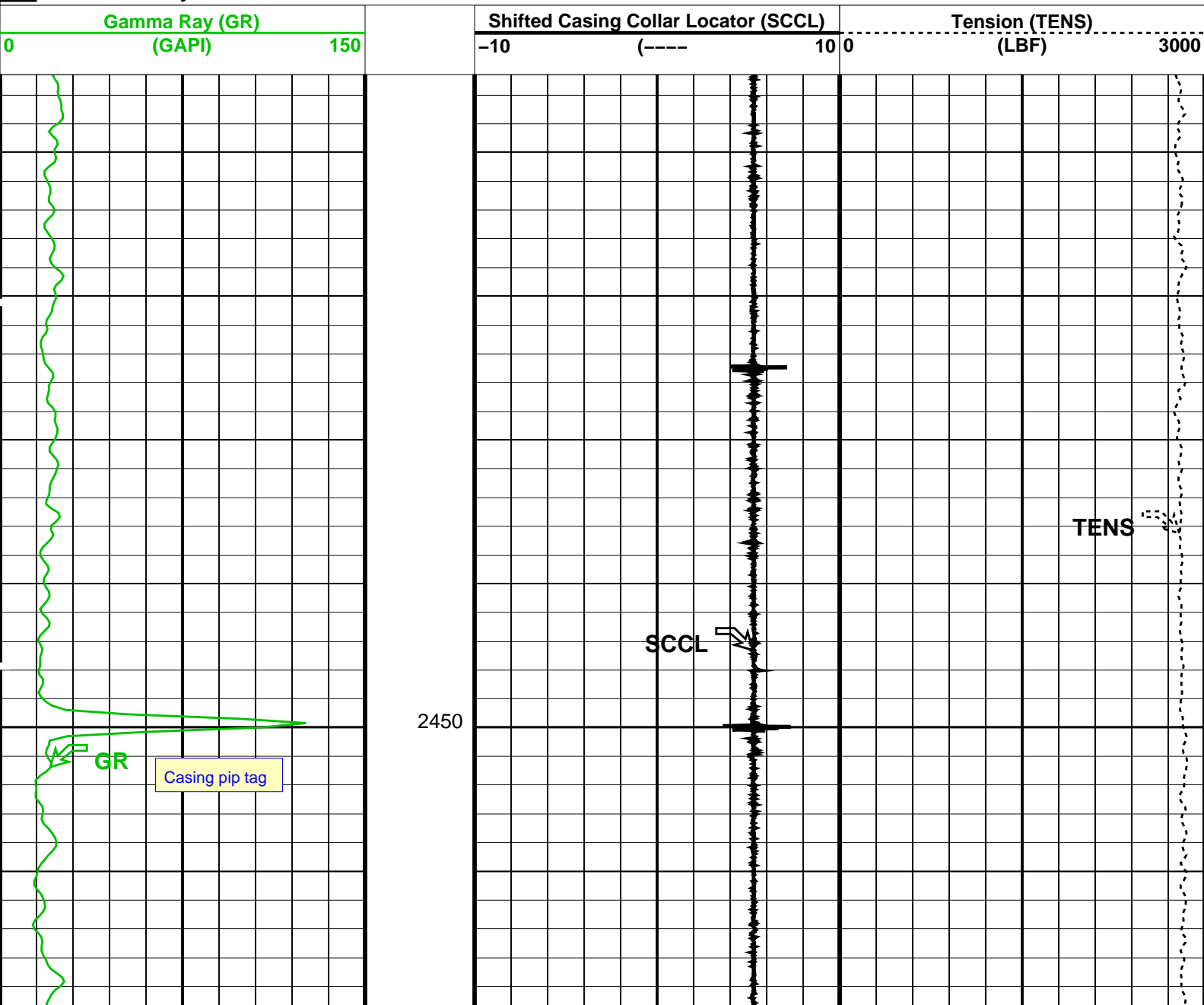
DEFAULT PERFO_024LUP FN:23 PRODUCER 27-Jun-2009 09:37 2515.5 M 2427.3 M

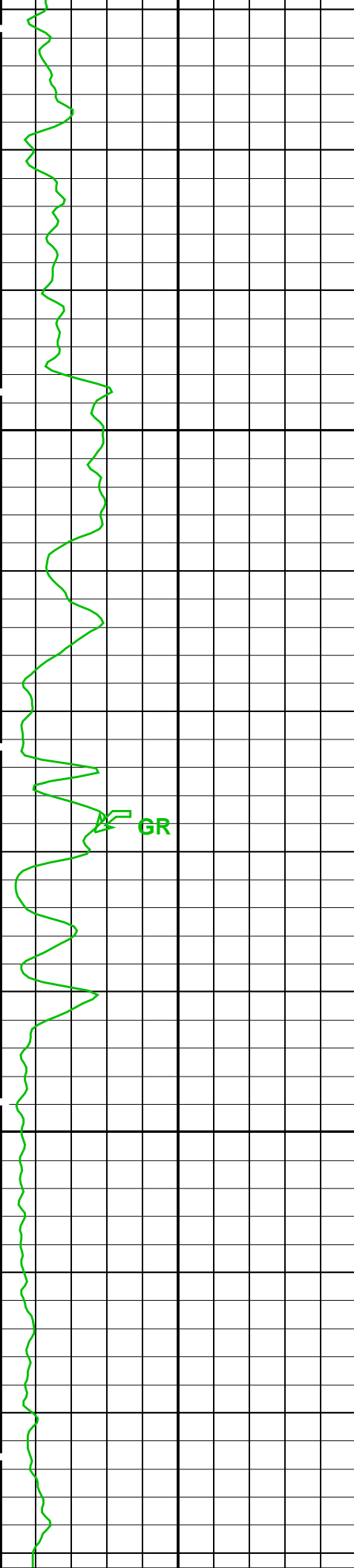
OP System Version: 17C0-154

SHM_GUN 17C0-154 PGGT-D 17C0-154

PIP SUMMARY

☒ Time Mark Every 60 S





2475

2500

SCCL

TENS

Gamma Ray (GR) (GAPI)		Shifted Casing Collar Locator (SCCL)		Tension (TENS)	
0	150	-10	10	0	3000
		(----		(LBF)	

PIP SUMMARY

Time Mark Every 60 S

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 27-Jun-2009 09:37

OP System Version: 17C0-154

SHM_GUN 17C0-154 PGGT-D 17C0-154

Output DLIS Files

DEFAULT PERFO_024LUP FN:23 PRODUCER 27-Jun-2009 09:37

Schlumberger

Junk Basket with 6" Gauge Ring
Correlation Pass / Before Perforation

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: CBA A33

Input DLIS Files

DEFAULT PERFO_012LUP FN:11 PRODUCER 27-Jun-2009 01:46 2546.9 M 2395.0 M

Output DLIS Files

DEFAULT PERFO_013PUP FN:12 PRODUCER 27-Jun-2009 02:03 2547.2 M 2395.3 M

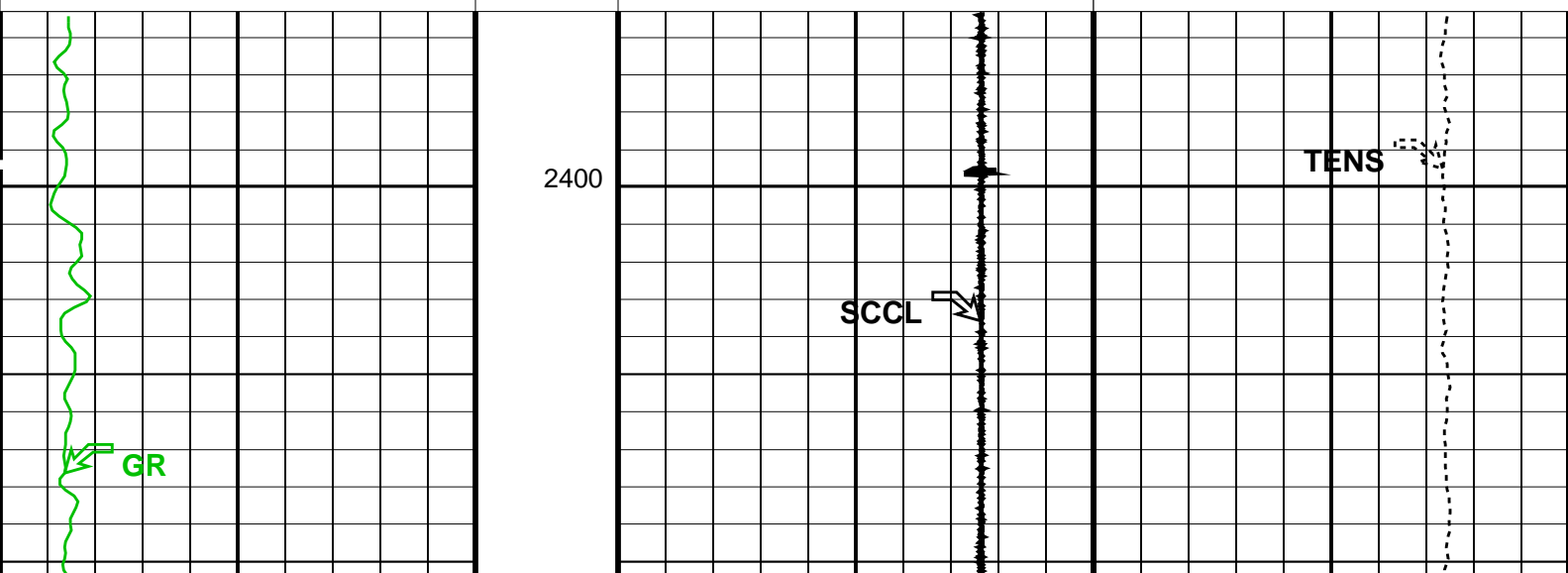
OP System Version: 17C0-154

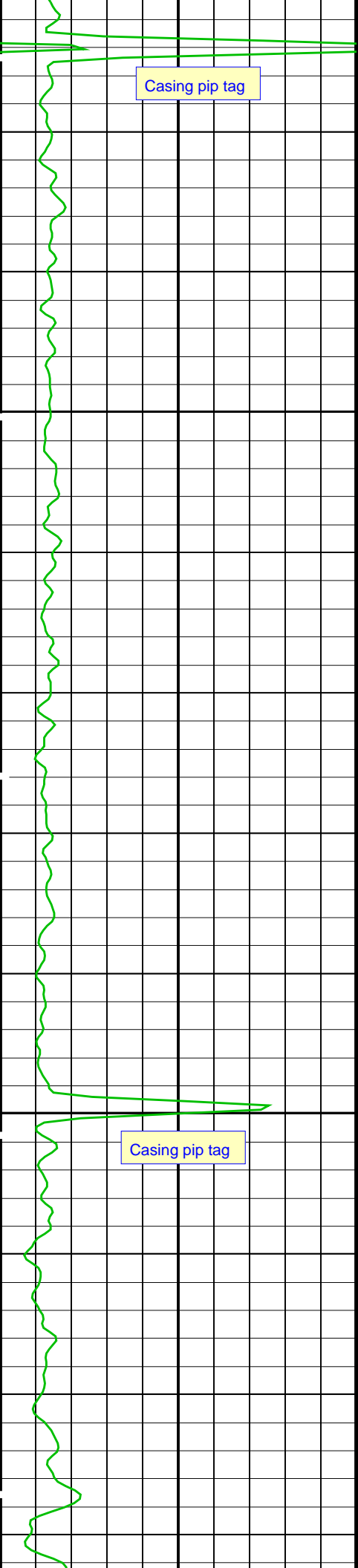
SHM_GUN 17C0-154 PGGT-D 17C0-154

PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR) (GAPI)		Shifted Casing Collar Locator (SCCL)		Tension (TENS)	
0	150	-10	10	0	3500
		(----		(LBF)	



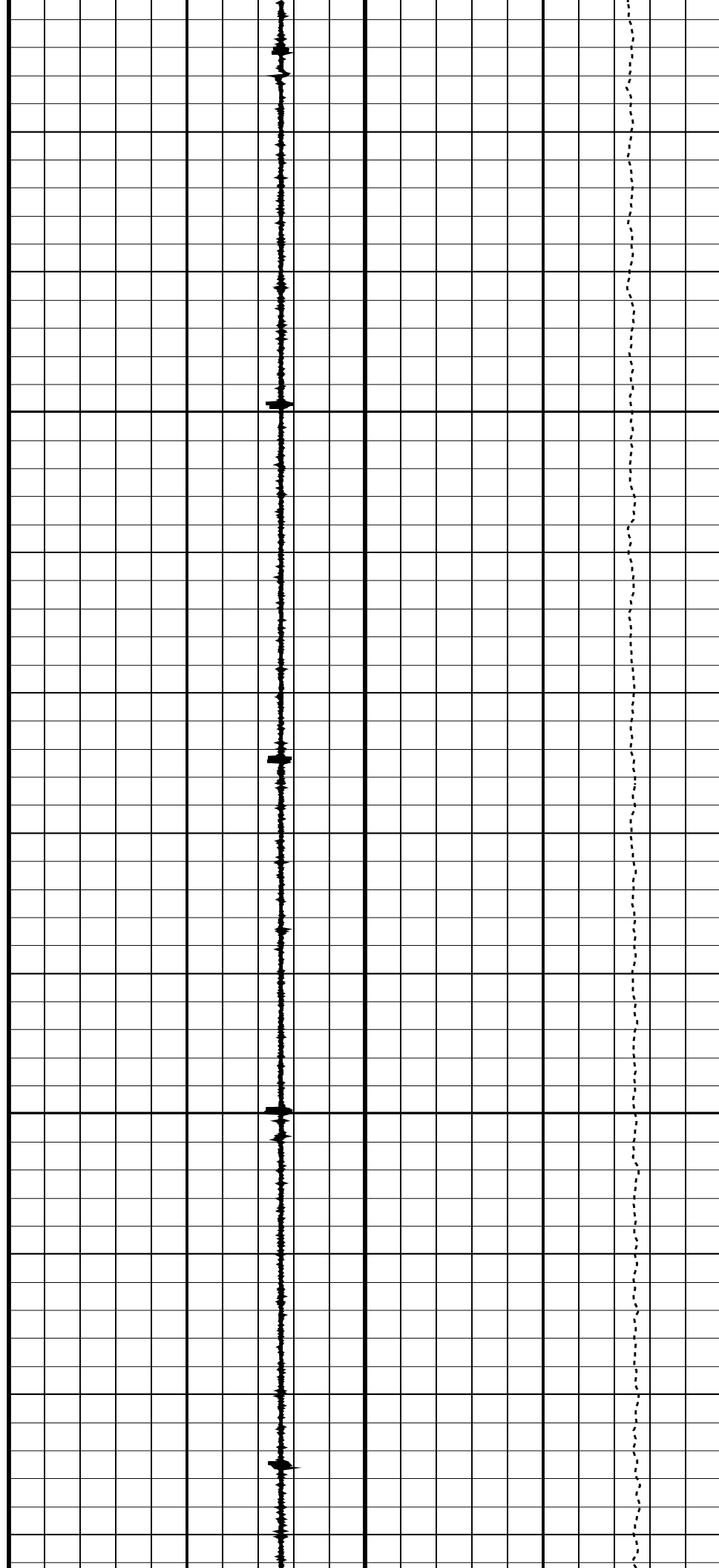


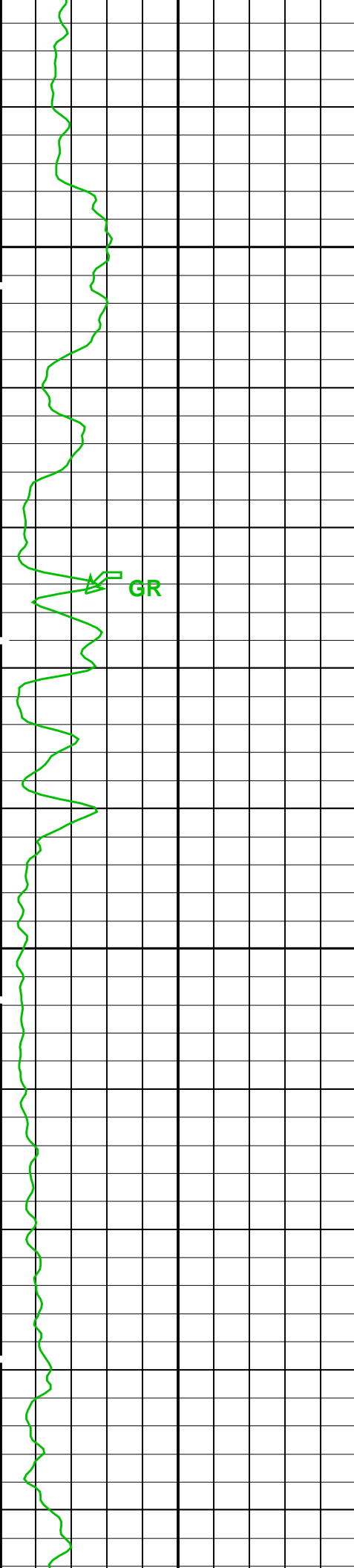
Casing pip tag

Casing pip tag

2425

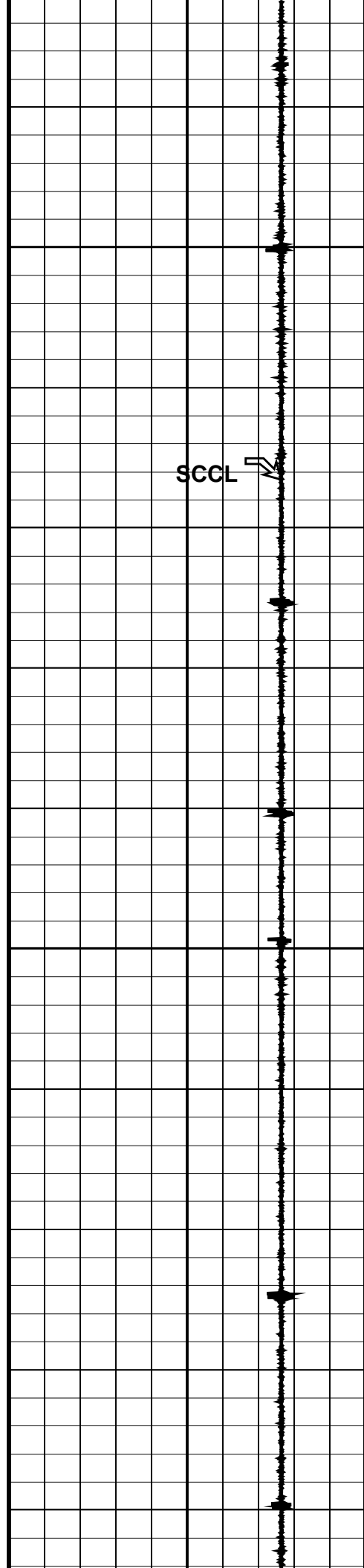
2450



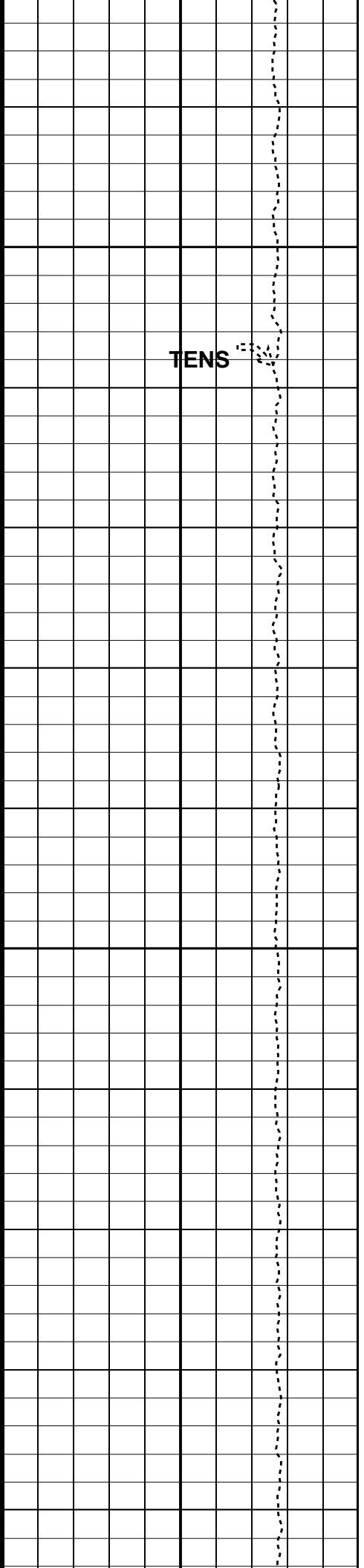


2475

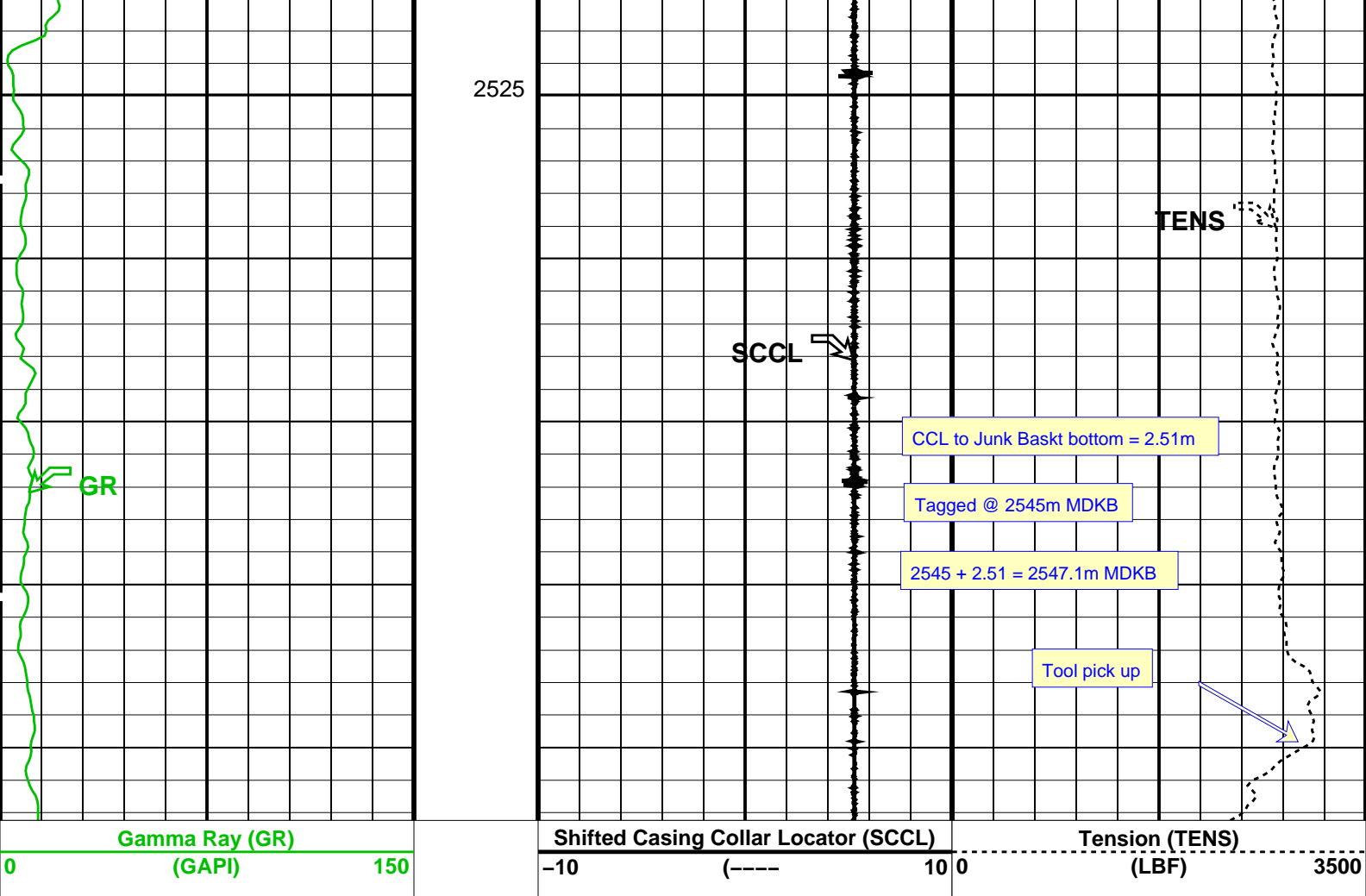
2500



SCCL



TENS



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	0.3 M
PP	Depth Offset for Playback Playback Processing	NORMAL

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 27-Jun-2009 02:03

OP System Version: 17C0-154

SHM_GUN 17C0-154 PGGT-D 17C0-154

Input DLIS Files

DEFAULT PERFO_012LUP FN:11 PRODUCER 27-Jun-2009 01:46 2546.9 M 2395.0 M

Output DLIS Files

DEFAULT PERFO_013PUP FN:12 PRODUCER 27-Jun-2009 02:03

Company: Esso Australia Pty Ltd

Schlumberger

Well: CBA A33
Field: Cobia
Rig: Rig 175
Country: Australia

Junk Basket with 6" Gauge Ring
4 1/2" HSD Perforation Record
27-Jun-2009