

Company: Esso Australia Pty Ltd.

Well: FLOUNDER A23A

Field: FLOUNDER

Rig: Crane / Prod#4 Country: Australia

2-1/8" Phased Powerjet  
Perforating and MPBT Plug Setting Record  
19-Feb-2010

Rig:Crane / Prod#4

Field:FLOUNDER

Location:Gippsland

Well:FLOUNDER A23A

Company:Esso Australia Pty Ltd.

LOCATION

Gippsland

Basin

Bass Strait

Permanent Datum: M.S.L.

Log Measured From: DF

Drilling Measured From: DF

Elev.: K.B. 33.20 m

G.L. -94.00 m

D.F. 33.20 m

State: Victoria

Max. Well Deviation 48.8 deg

Longitude 148°06'15.1"E

Latitude 38°18'45.2"S

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	48.8 deg				
CEMENTING DATA					
Primary/Squeeze					
Casing String No					
Lead Cement Type					
Volume					
Density					
Water Loss					
Additives					
Tail Cement Type					
Volume					
Density					
Water Loss					
Additives					
Expected Cement Top					

Logging Date	19-Feb-2010		
Run Number	1		
Depth Driller	3508 m		
Schlumberger Depth	3155 m		
Bottom Log Interval	3141 m		
Top Log Interval	3139 m		
Casing Fluid Type	Production Fluid		
Salinity			
Density	1.05 g/cm3		
Fluid Level	1200 m		
BIT/CASING/TUBING STRING			
Bit Size	9.875 in		
From	644 m		
To	3508 m		
Casing/Tubing Size	7.625 in		
Weight	29.7 lbn/ft		
Grade	L -80		
From	16.68 m		
To	3501 m		
Maximum Recorded Temperatures	228 degF		
Logger On Bottom	19-Feb-2010	11:54	
Unit Number	889	AUSL	
Recorded By	C.Rowand / W.Mackenzie		
Witnessed By	G.Rimmer		

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: 18-FEB-2010 20:44:51

## Logging Cable

Type:	2-32ZT
Serial Number:	208558
Length:	6020 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Composite
Reference Log Run Number:	
Reference Log Date:	14-Feb-2007
Subsequent Trip Down Log Correction:	-2.00 M

1. Log correlated to Esso provided Solar Composite log.
2. Rigged up on main deck using the platform crane.
3. Tool Zero is referenced from the Tubing Hanger at 19.05m
- 4.
- 5.
6. Tension:  $a=4.72E-5$ ,  $b=0.7936$ , &  $c=-82.9$

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 SERVICES2  
OS1:  
OS2:  
OS3:  
OS4:  
OS5:

REMARKS: RUN NUMBER 2

Log correlated to RST Sigma Log of 14-Feb-2007.

Gun #1: 3139.0 – 3141.0m. SAFE firing system used.

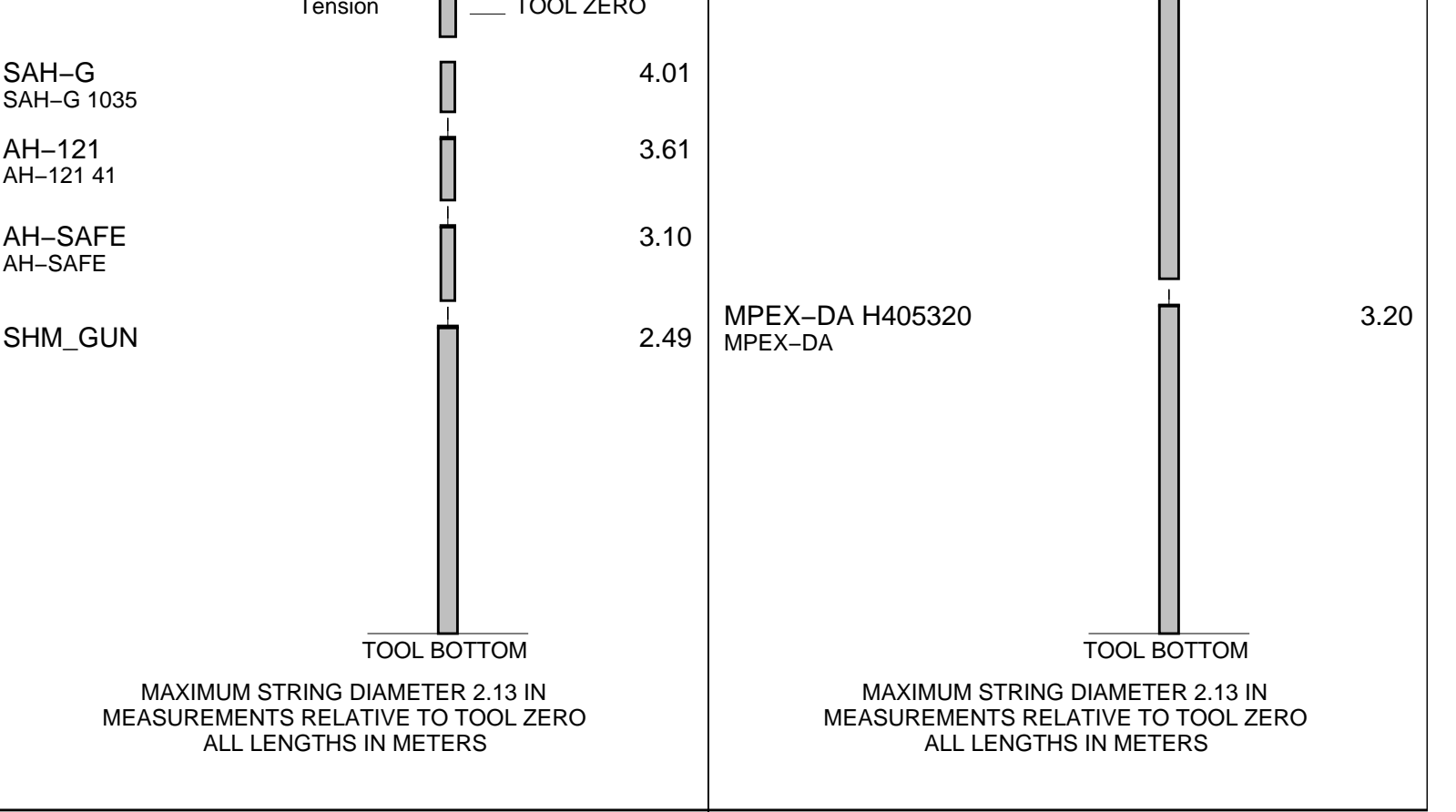
MPBT Plug (H405320) set at 3147.0m, due to noisy CCL at 3148m.	
1m of water and cement dumped on top	
2–1/8" Ph. Powerjet API data:–	
– Penetration 27.2"	
– Entrance hole 0.32"	

RUN 1 SERVICE ORDER #: AUSL07336256 PROGRAM VERSION: 17C0-154 FLUID LEVEL: 1200 m			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

WITM (SHM)	SURFACE EQUIPMENT	MPBM	SURFACE EQUIPMENT
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DOWNHOLE EQUIPMENT				DOWNHOLE EQUIPMENT			
MH-SWBH 759			10.85	MH-SWBH 759			13.71
EQF-SWBS 785			10.45	EQF-SWBS 789			13.31
EQF-SWBS 786			9.80	EQF-SWBS 788			12.66
EQF-SWBS 787			9.15	EQF-SWBS 787			12.01
EQF-SWBS 788			8.50	EQF-SWBS 786			11.36
EQF-SWBS 789			7.86	EQF-SWBS 785			10.72
EQF-46			7.21	CCL-L			10.07
EQF-46				CCL-L 7336			
				MPSU-CA			9.61
				MPSU-CA 1102			
UPCT-A			5.38				
UPCC-A 445	Gamma Ray	0.79					
UPCH-A 517							
	Casing Co						



Client: Esso Australia Pty Ltd.

Well: FLA A23a

Field: Flounder

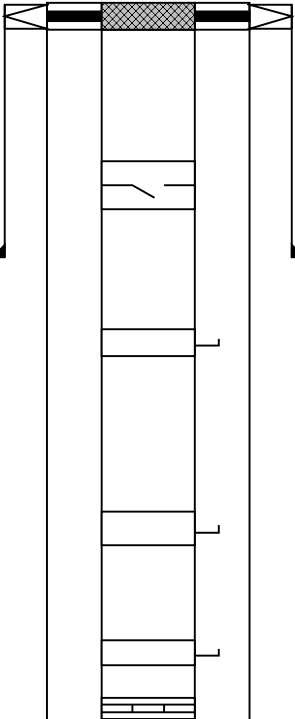
State: Victoria

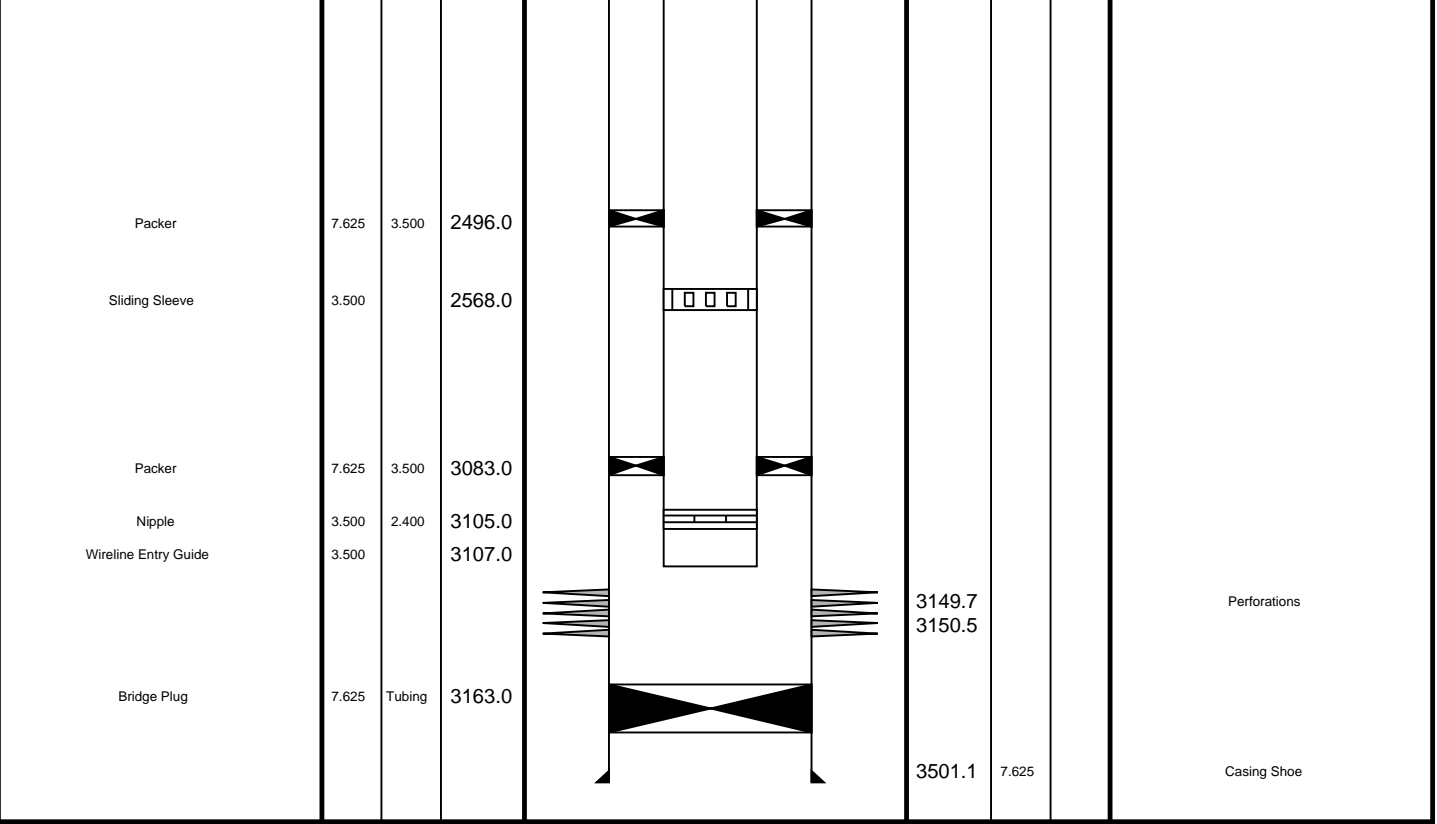
Country: Australia

Rig Name: Crane / Prod4

Reference Datum: Mean Sea Level

Elevation: 0.0 m

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	7.625	3.500	18.0		19.7	10.750		Casing String
SSSV	3.500	2.750	447.0		643.5	10.750		Casing Shoe
Side Pocket Mandrel	3.500		675.0					
Side Pocket Mandrel	3.500		1213.0					
Side Pocket Mandrel	3.500		1501.0					
Nipple	3.500		1517.0					



## Cement Bailer Dump Record

MAXIS Field Log

### PERFO2 Operational Summary Listing

Device	Status	Req Depth ( M)	Obs Depth ( M)	Time Used
Cement Bailer	Used	3133.0	3132.9	Sat Feb 20 15:31:40 201

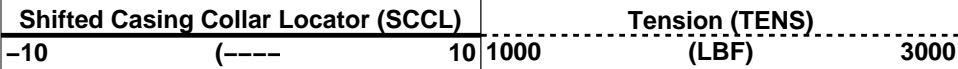
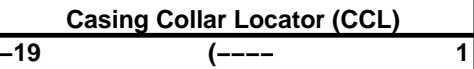
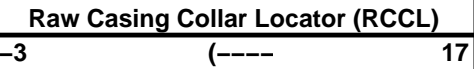
Company: Esso Australia Pty Ltd. Well: FLA A23a

### Output DLIS Files

DEFAULT PERFO\_079LUP FN:91 PRODUCER 20-Feb-2010 15:29 3136.8 M 3098.6 M

PIP SUMMARY

Time Mark Every 60 S



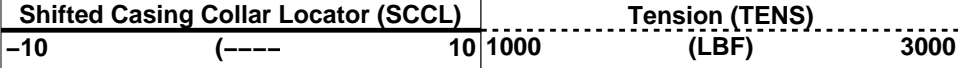
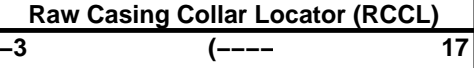
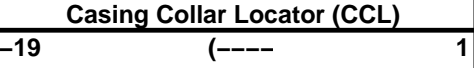
3100

3125

WEC

Tag MPBT Plug @  $3133.3 + 13.5 = 3146.8\text{m}$

Dump Cement @  $3133 + 13.5 = 3146.5\text{m}$



PIP SUMMARY

Time Mark Every 60 S

Parameters				
DLIS Name		Description	Value	
CCL-L: 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: 20-Feb-2010 15:29	
OP System Version: 17C0-154				
SHM_GUN	17C0-154	CCL-L	17C0-154	
Output DLIS Files				
DEFAULT	PERFO_079LUP	FN:91	PRODUCER	20-Feb-2010 15:29

**Schlumberger**

## Water Bailer Dump Record

MAXIS Field Log

### PERFO2 Operational Summary Listing

Device	Status	Req Depth ( M )	Obs Depth ( M )	Time Used
Water Bailer	Used	3133.5	3133.5	Sat Feb 20 13:19:18 201

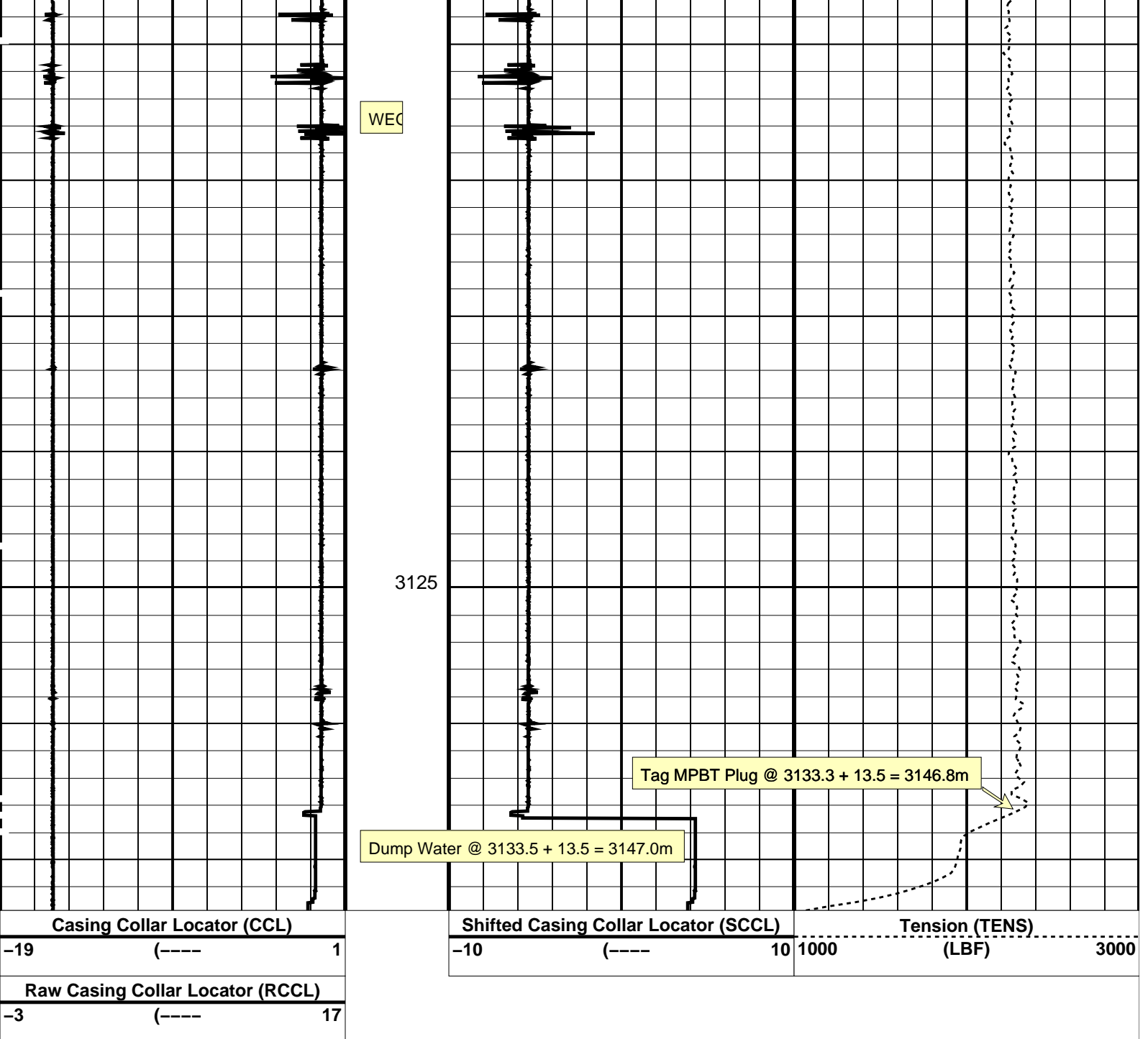
Company: Esso Australia Pty Ltd. Well: FLA A23a

Output DLIS Files				
DEFAULT	PERFO_074LUP	FN:86	PRODUCER	20-Feb-2010 13:15 3136.8 M 3098.0 M
OP System Version: 17C0-154				
SHM_GUN	17C0-154	CCL-L	17C0-154	

### PIP SUMMARY

☒ Time Mark Every 60 S

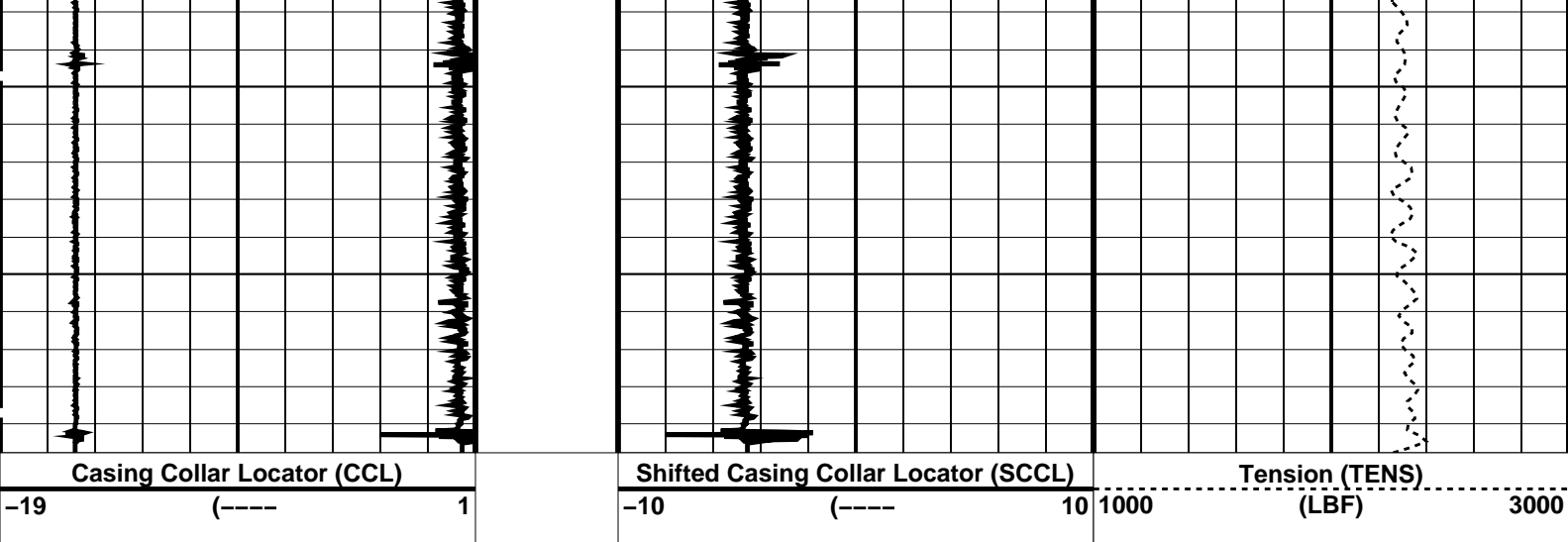
Raw Casing Collar Locator (RCCL)																	
-3		(----		17													
Casing Collar Locator (CCL)						Shifted Casing Collar Locator (SCCL)				Tension (TENS)							
-19		(----		1		-10		(----		10		1000		(LBF)		3000	
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PIP SUMMARY			
Time Mark Every 60 S			
Parameters			
DLIS Name	Description	Value	
CCL-L: 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: 20-Feb-2010 13:15	
OP System Version: 17C0-154			
SHM_GUN	17C0-154	CCL-L	17C0-154
Output DLIS Files			
DEFAULT	PERFO_074LUP	FN:86	PRODUCER 20-Feb-2010 13:15



**MPBT**  
**Log out of Position**



PIP SUMMARY

Time Mark Every 60 S

Parameters

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

Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 20-Feb-2010 10:16

OP System Version: 17C0-154

MPEX-DA 17C0-154 MPSU-CA 17C0-154  
CCL-L 17C0-154

Output DLIS Files

DEFAULT CCL\_071LUP FN:83 PRODUCER 20-Feb-2010 10:16

Schlumberger

MPBT  
Setting Record

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth ( M)	Obs Depth ( M)	Time Used
MPBT	Used	3147.0	3147.0	Sat Feb 20 10:14:35 2010

Output DLIS Files

OP System Version: 17C0-154

MPEX-DA

17C0-154

MPSU-CA

17C0-154

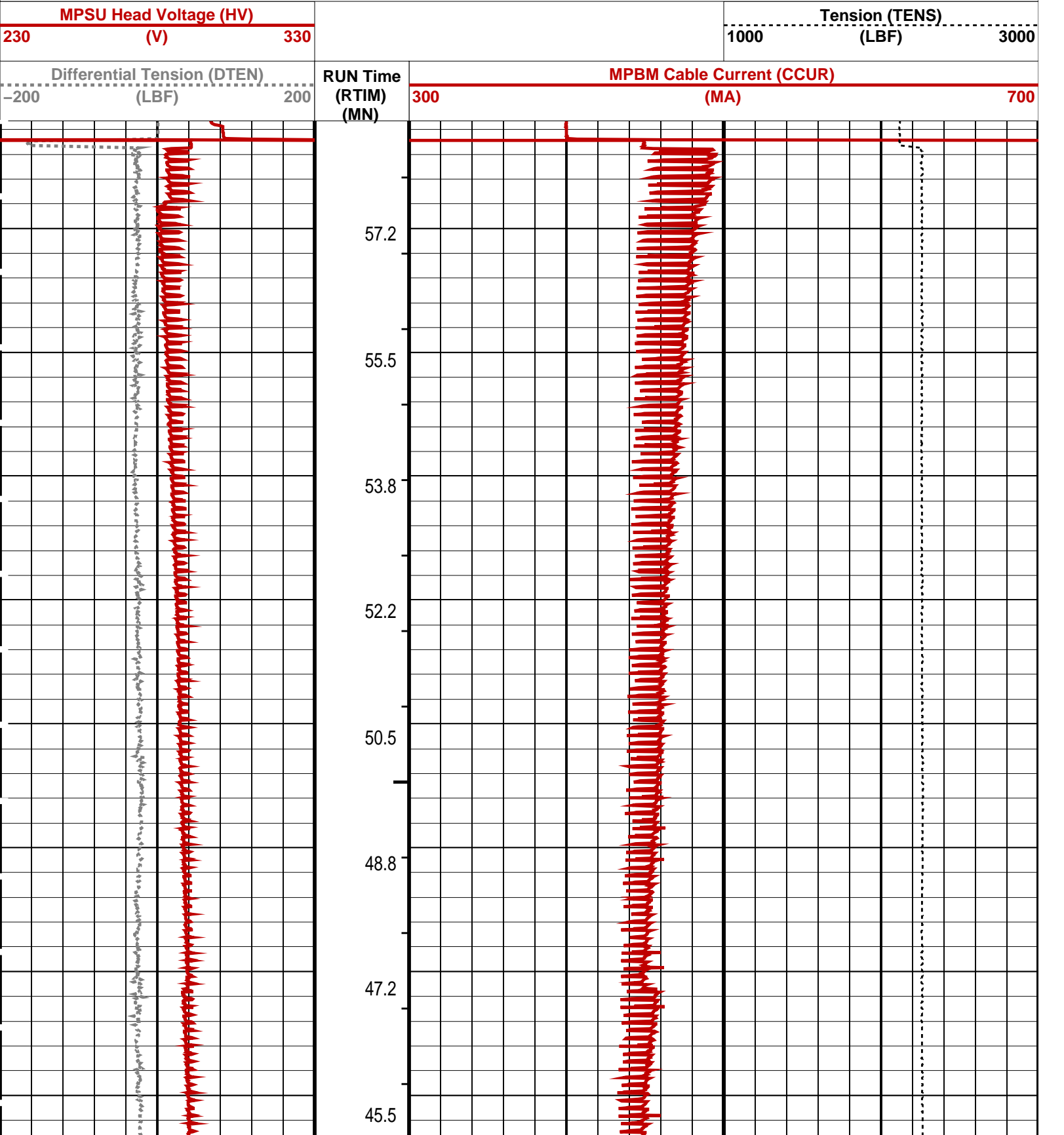
CCL-L

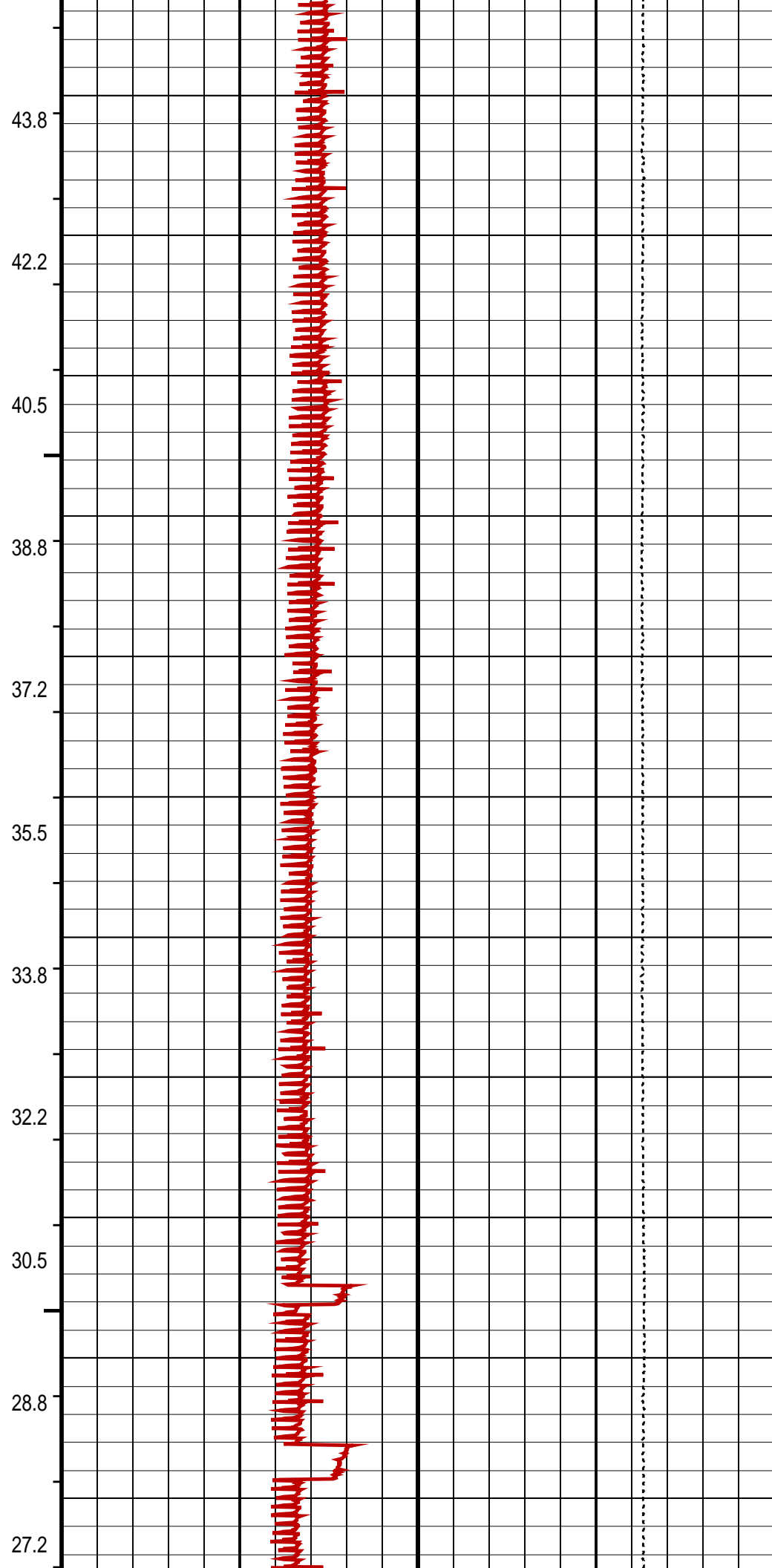
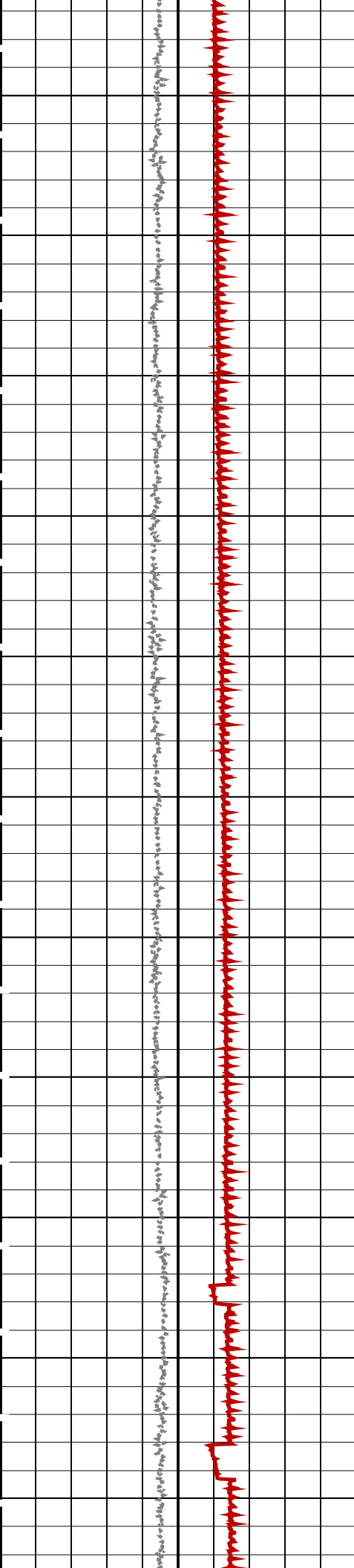
17C0-154

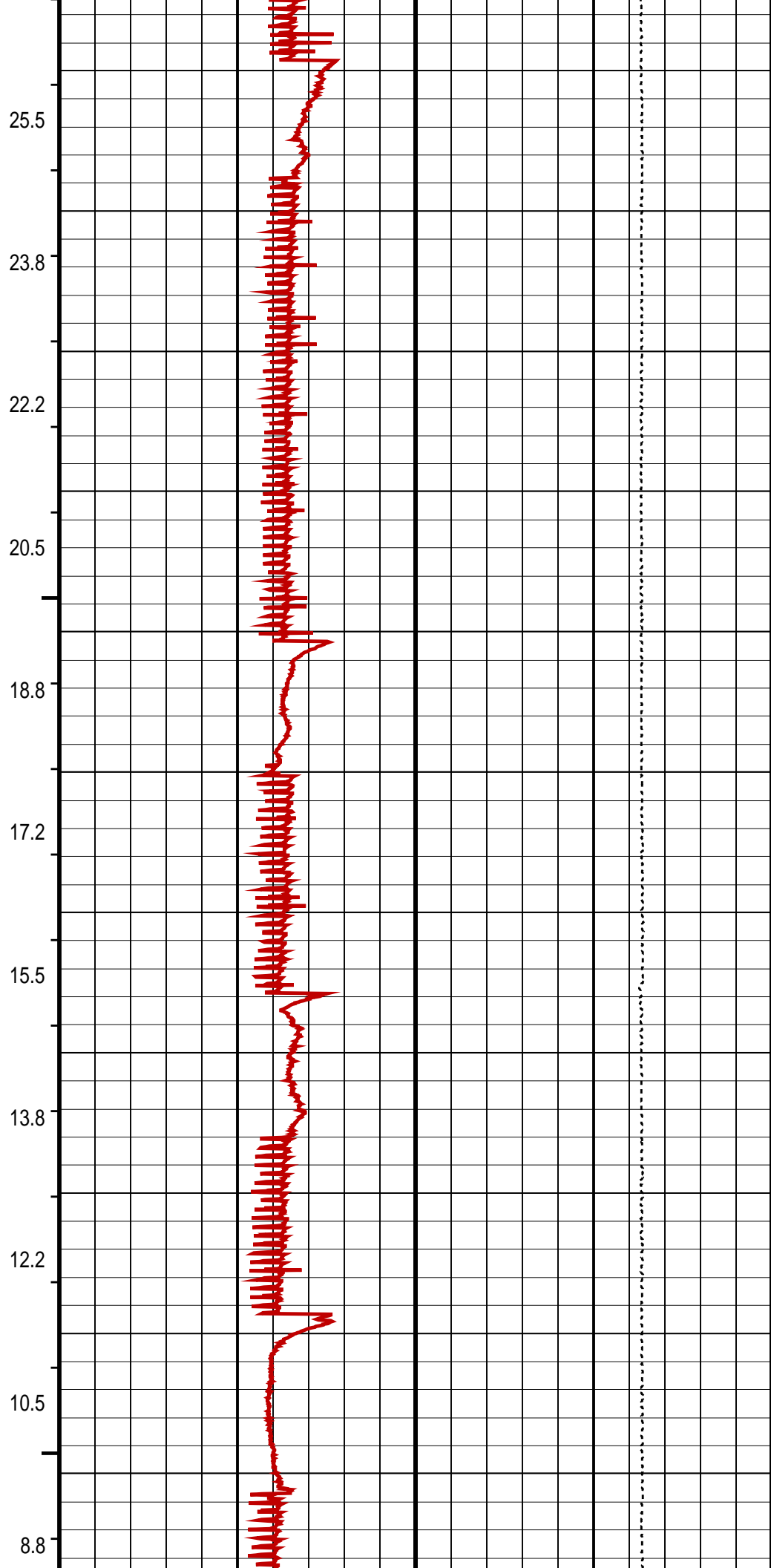
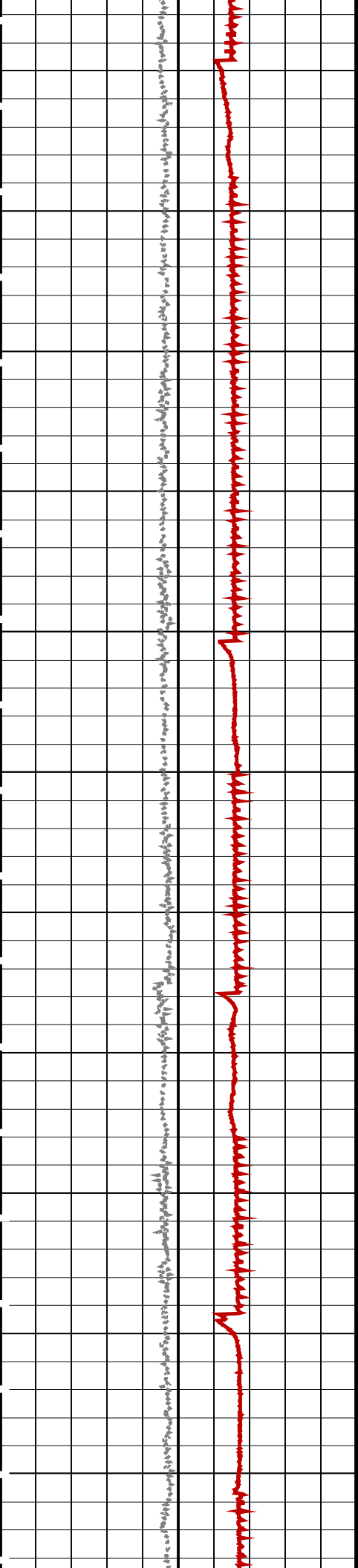
PIP SUMMARY

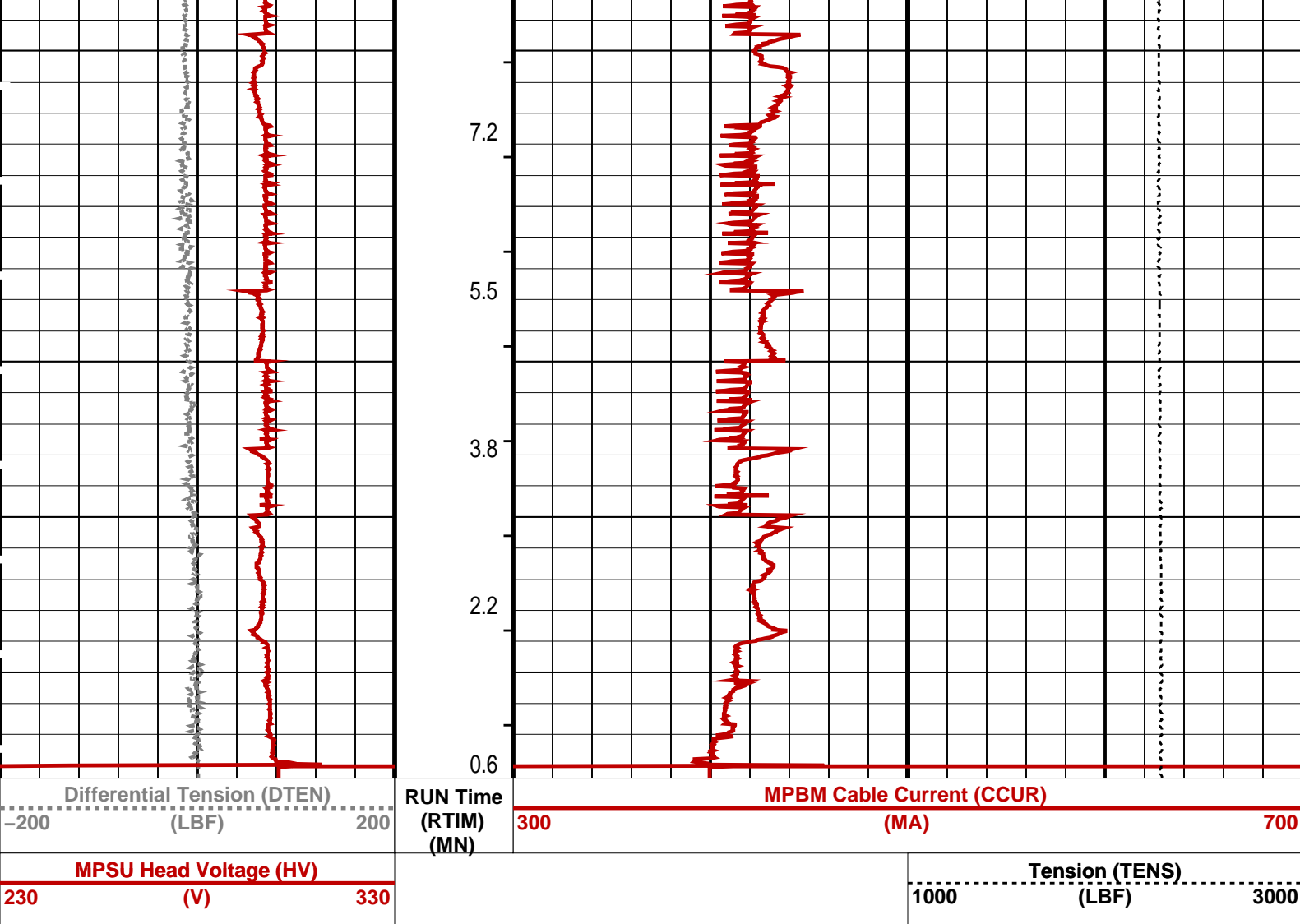
- └ MPSU Run Time Every 1 MN
- └ MPSU Run Time Every 10 MN

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
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MPSU-CA: MECHANICAL PLUGBACK SETTING UNIT		
IPUMP	Intensifier Pump	TRUE

Format: MPBT\_1 Vertical Scale: 1:1000

Graphics File Created: 20-Feb-2010 09:16

#### OP System Version: 17C0-154

MPEX-DA	17C0-154	MPSU-CA	17C0-154
CCL-L	17C0-154		

#### Output DLIS Files

DEFAULT	CCL_070LUP	FN:82	PRODUCER	20-Feb-2010 09:16
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**Schlumberger**

**MPBT**  
**Log into Position**

Company: Esso Australia Pty Ltd. Well: FLA A23a

## Output DLIS Files

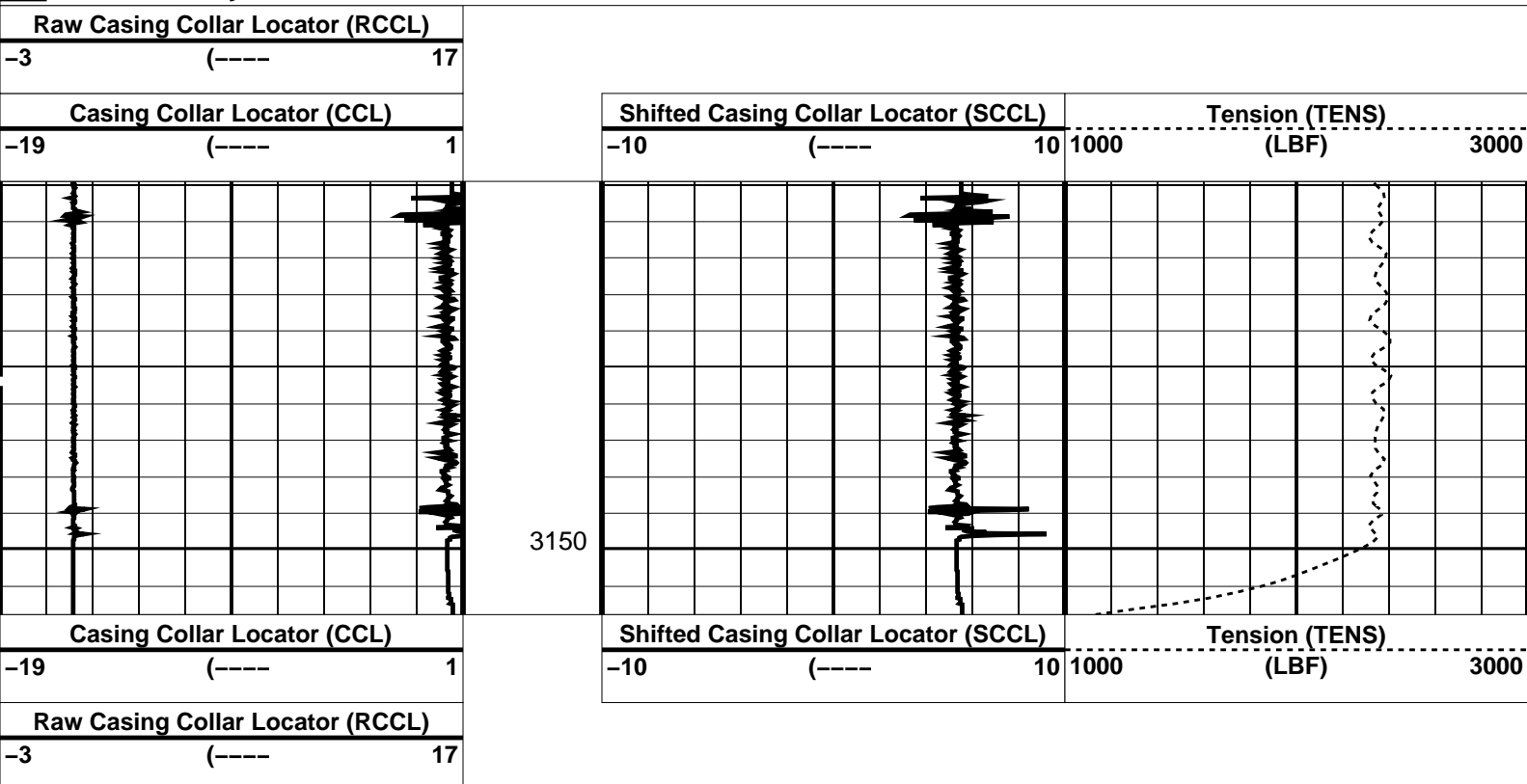
DEFAULT CCL\_069LUP FN:81 PRODUCER 20-Feb-2010 09:12 3151.8 M 3139.9 M

## OP System Version: 17C0-154

MPEX-DA 17C0-154 MPSU-CA 17C0-154  
CCL-L 17C0-154

### PIP SUMMARY

Time Mark Every 60 S



### PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
CCL-L: 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: 20-Feb-2010 09:12

## OP System Version: 17C0-154

MPEX-DA 17C0-154 MPSU-CA 17C0-154  
CCL-L 17C0-154

## Output DLIS Files

DEFAULT CCL\_069LUP FN:81 PRODUCER 20-Feb-2010 09:12

Company: Esso Australia Pty Ltd. Well: FLA A23a

Output DLIS Files

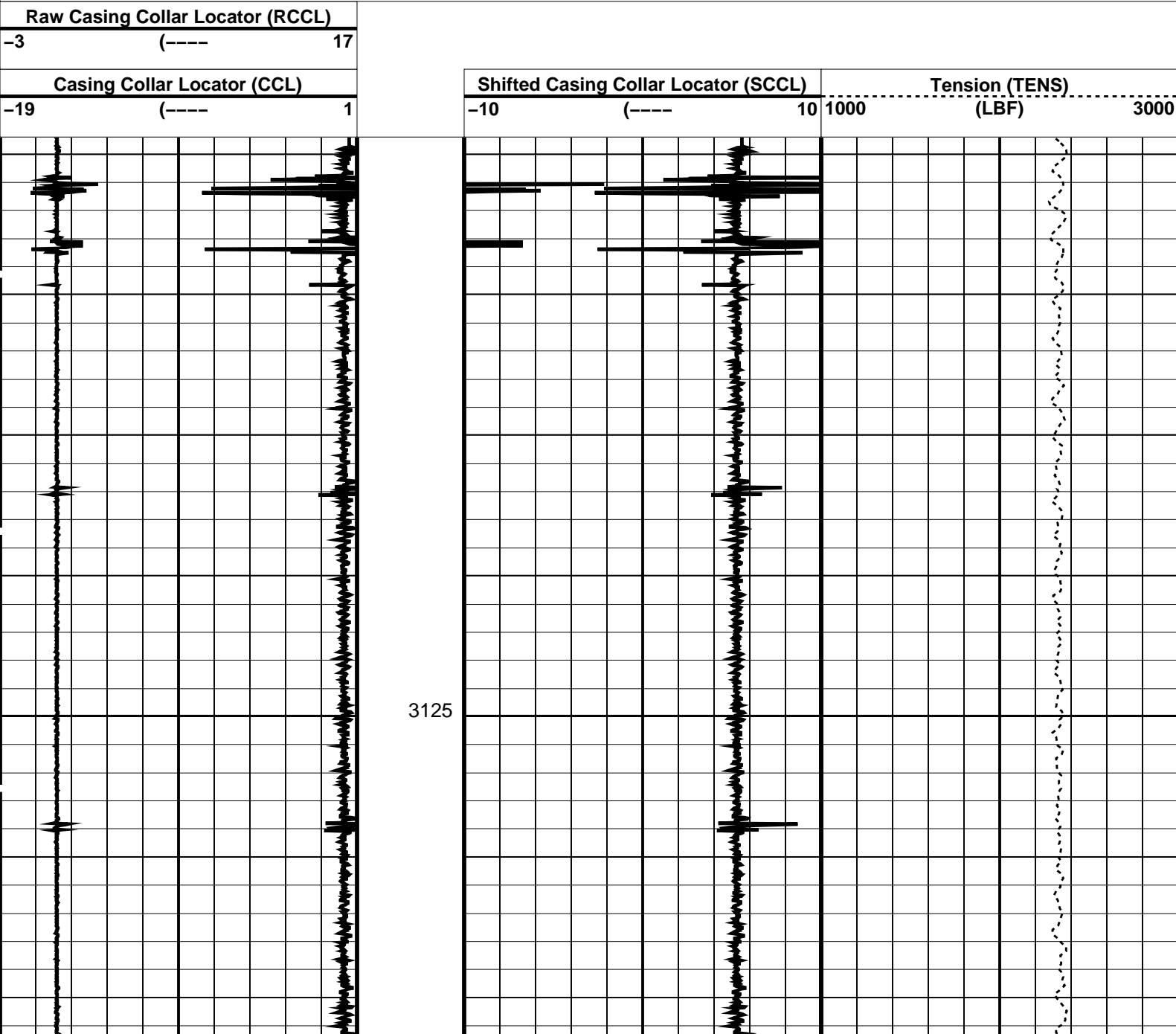
DEFAULT CCL\_068LUP FN:80 PRODUCER 20-Feb-2010 08:56 3151.6 M 3104.4 M

OP System Version: 17C0-154

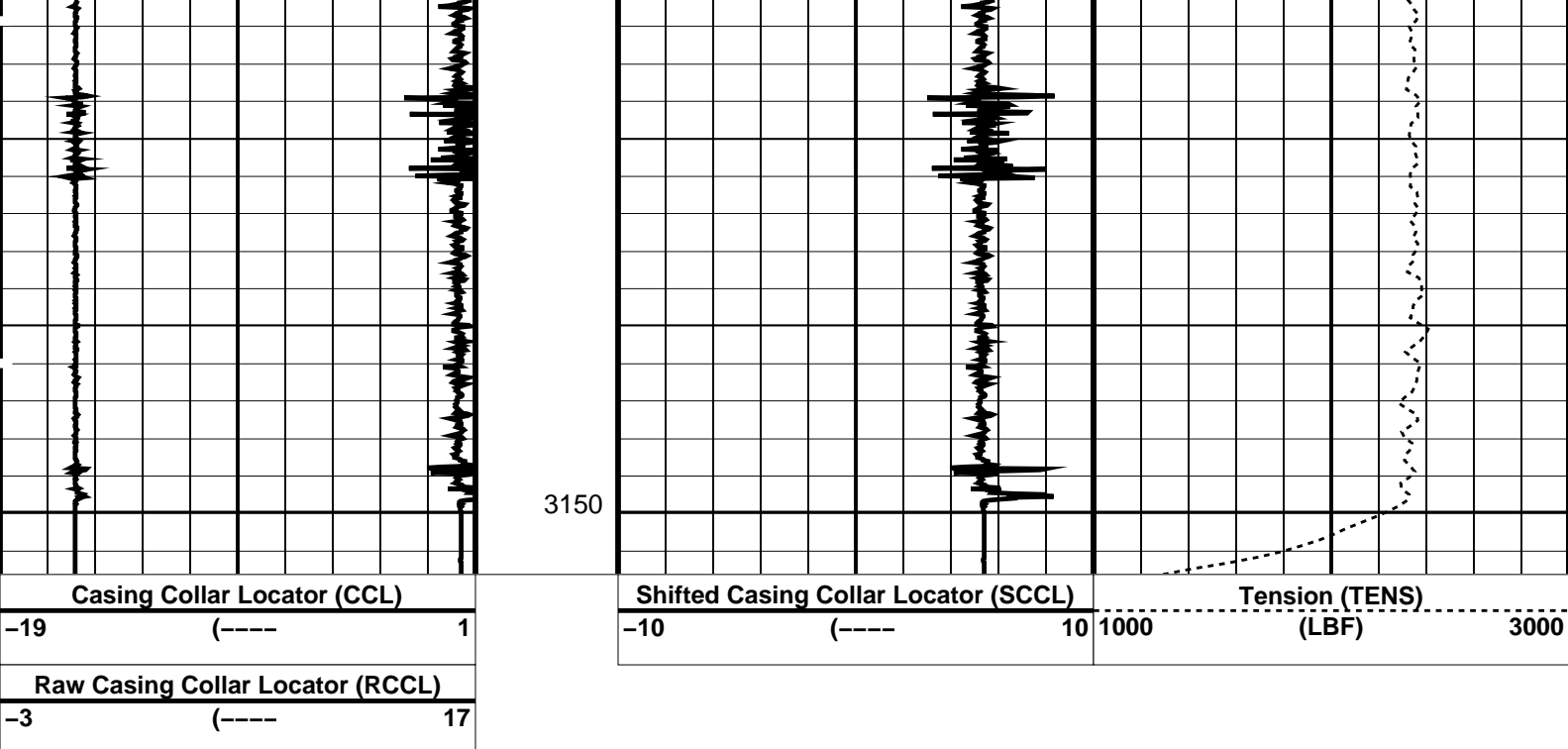
MPEX-DA 17C0-154 MPSU-CA 17C0-154  
CCL-L 17C0-154

PIP SUMMARY

Time Mark Every 60 S







#### PIP SUMMARY

Time Mark Every 60 S

#### Parameters

DLIS Name	Description	Value
CCL-L: 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: 20-Feb-2010 08:56

#### OP System Version: 17C0-154

MPEX-DA 17C0-154 MPSU-CA 17C0-154

CCL-L 17C0-154

#### Output DLIS Files

DEFAULT CCL\_068LUP FN:80 PRODUCER 20-Feb-2010 08:56

**Schlumberger**

**2 1/8" Phased Enerjet  
Log out of Position**

MAXIS Field Log

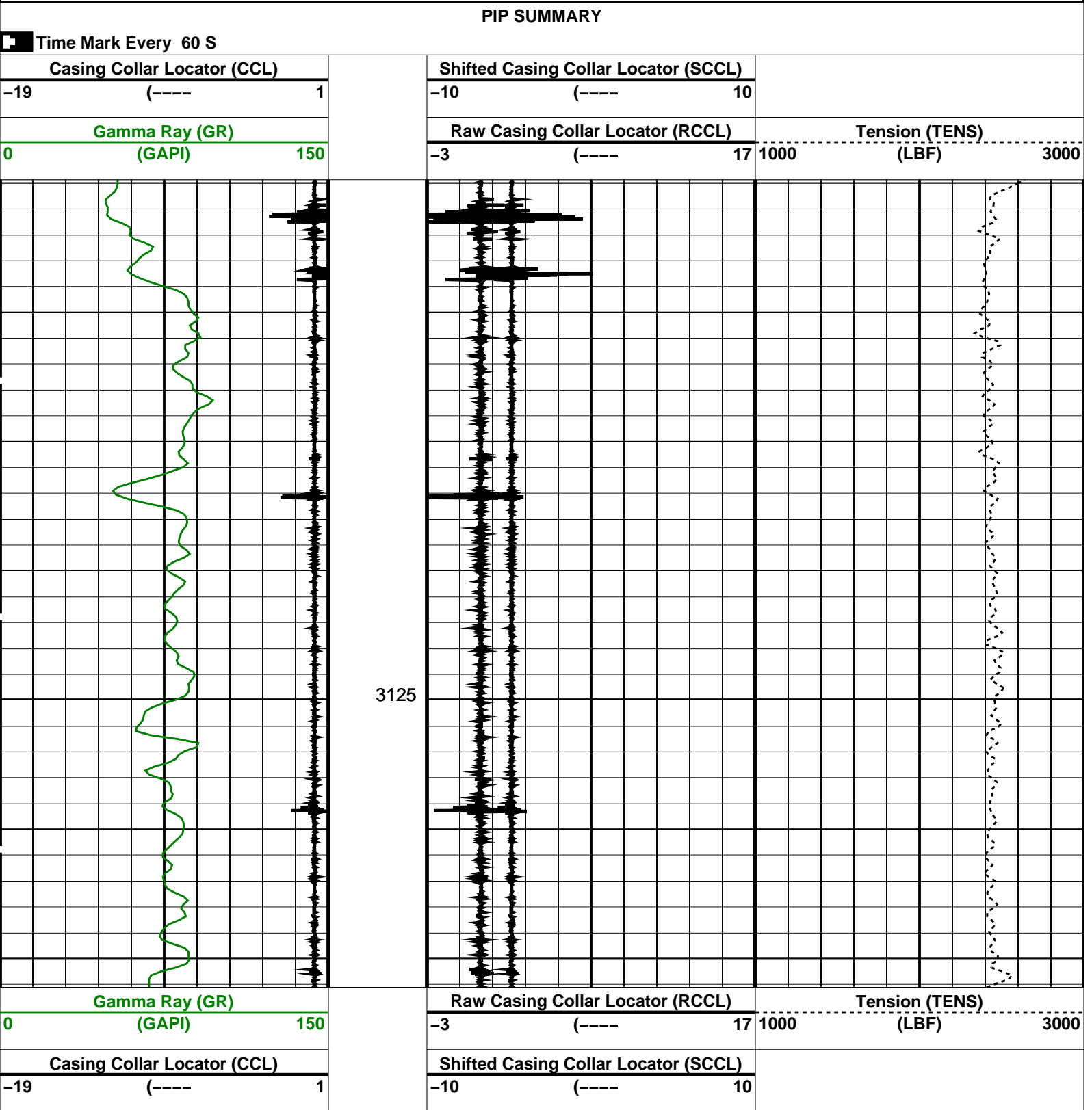
Company: Esso Australia Pty Ltd.

Well: FLA A23a

#### Output DLIS Files

DEFAULT PERFO\_052LUP FN:63 PRODUCER 19-Feb-2010 12:31 3136.1 M 3104.7 M

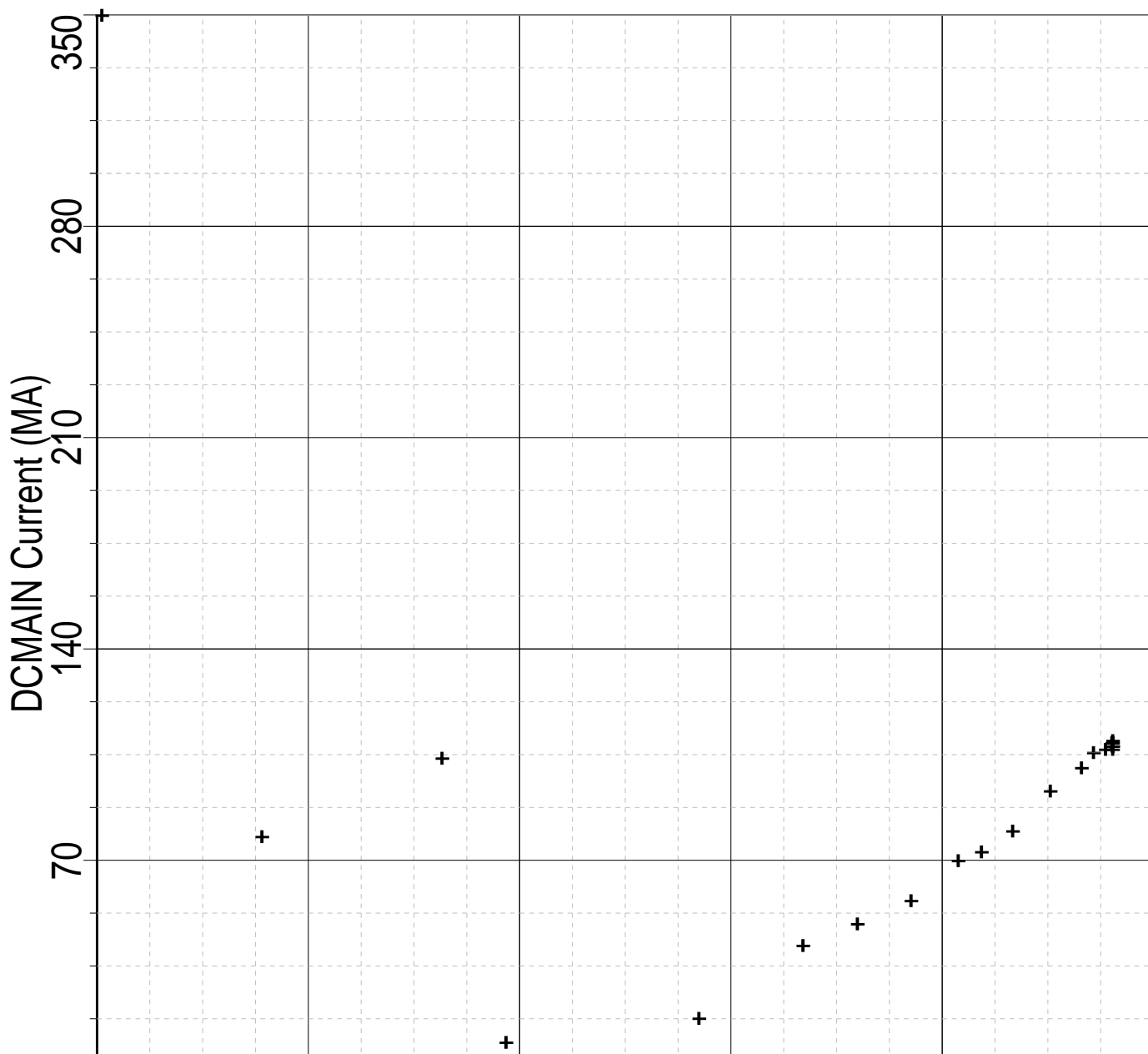
#### OP System Version: 17C0-154



PERFO2 Operational Summary Listing

Device	Status	Req Depth ( M)	Obs Depth ( M)	Time Used
GUN1	Used	3139.0	3139.0	Fri Feb 19 12:07:30 201

Index: 12192.0 – 12175.8 M



Company: Esso Australia Pty Ltd.

Well: FLA A23a

Output DLIS Files

DEFAULT

PERFO\_051LUP

FN:62

PRODUCER

19-Feb-2010 12:06

12192.0 M

12175.8 M

OP System Version: 17C0-154

SHM\_GUN

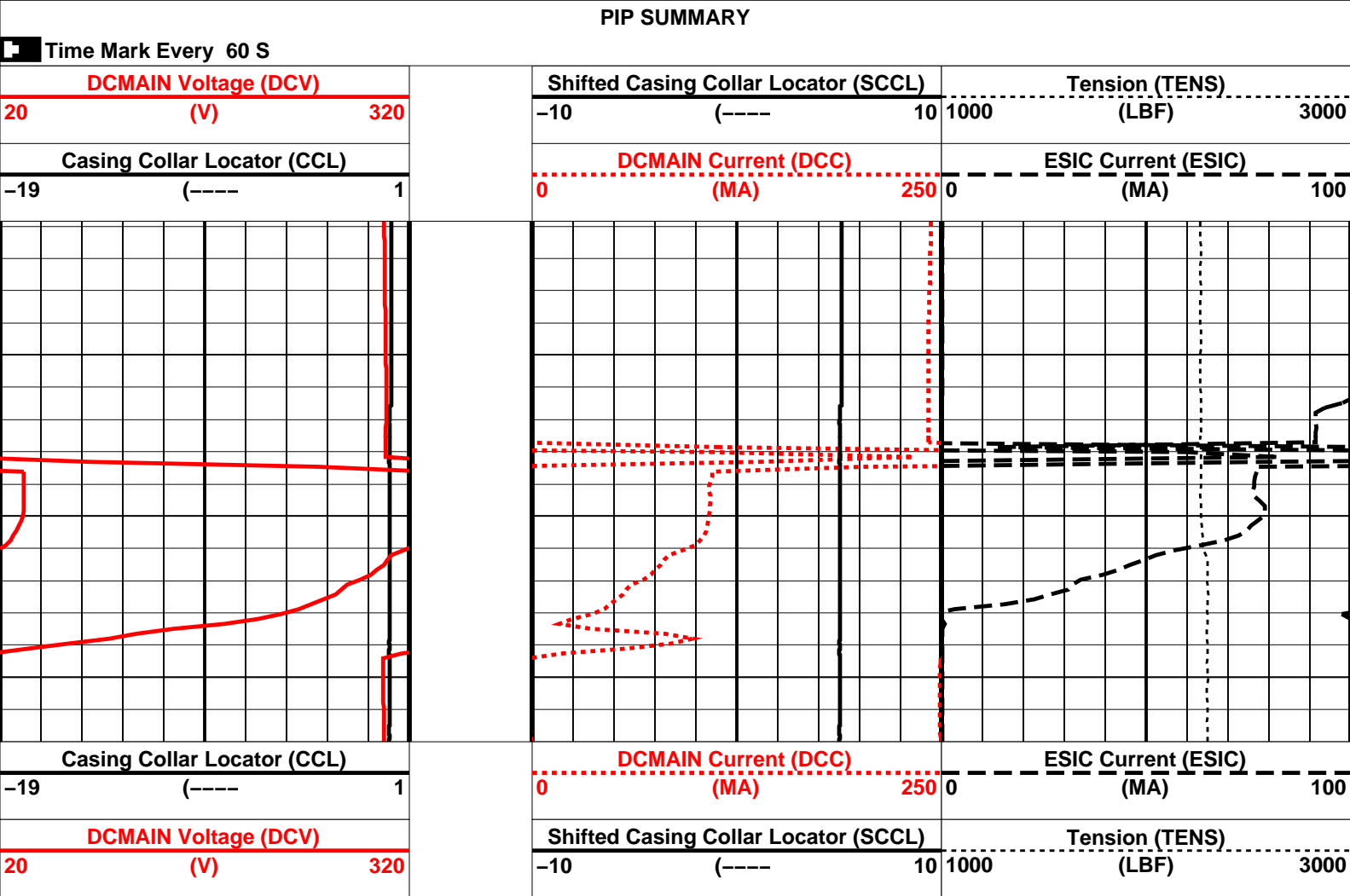
17C0-154

SAFE

17C0-154

UPCT-A

17C0-154



## Output DLIS Files

DEFAULT

PERFO\_051LUP

FN:62

PRODUCER

19-Feb-2010 12:06

**Schlumberger****2 1/8" Phased Enerjet  
Log into Position**

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: FLA A23a

**Output DLIS Files**

DEFAULT

PERFO\_050LUP

FN:61

PRODUCER

19-Feb-2010 12:02

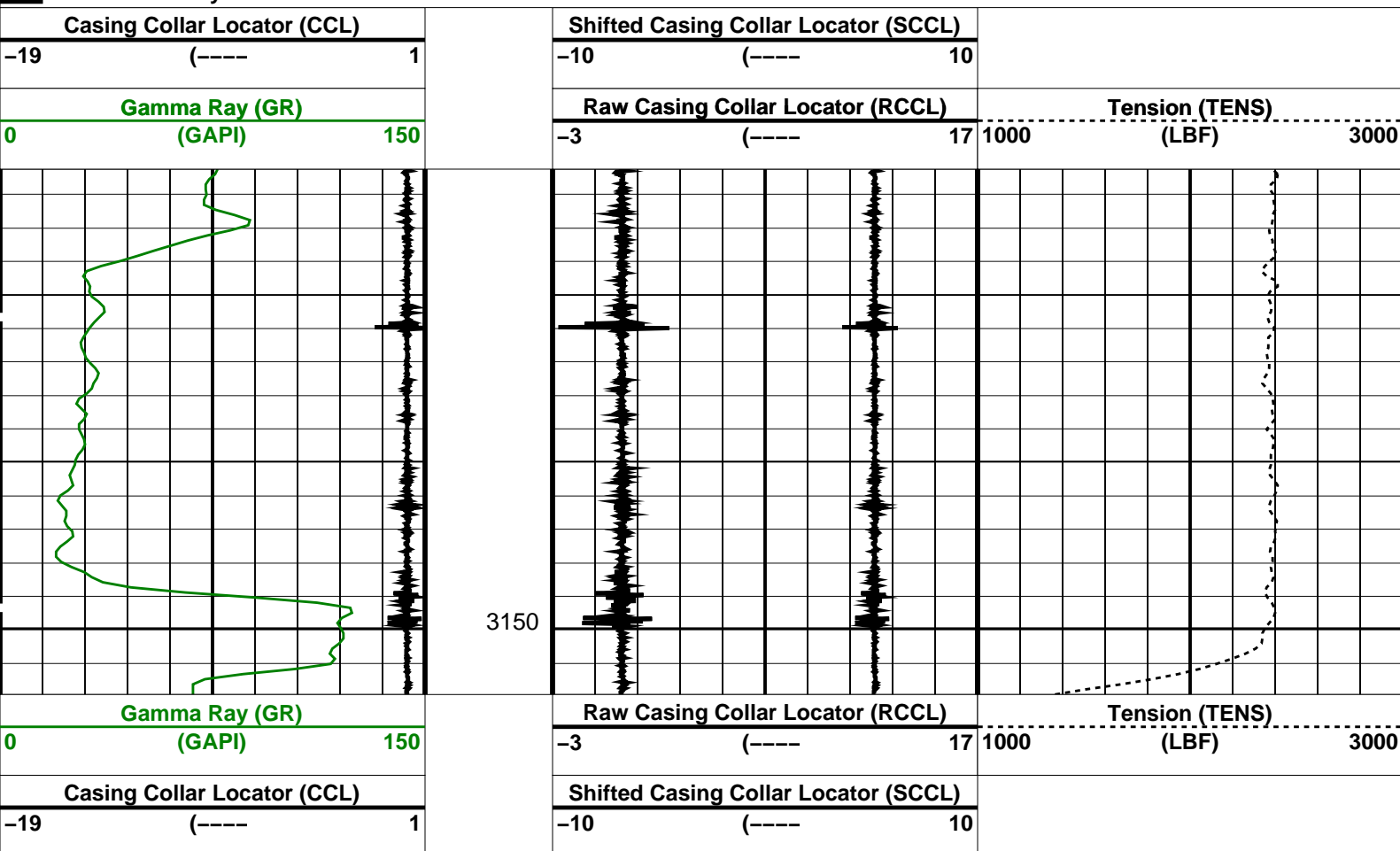
**OP System Version: 17C0-154**SHM\_GUN  
UPCT-A17C0-154  
17C0-154

SAFE

17C0-154

**PIP SUMMARY**

Time Mark Every 60 S



Time Mark Every 60 S

Format: CCLLog Vertical Scale: 1:200

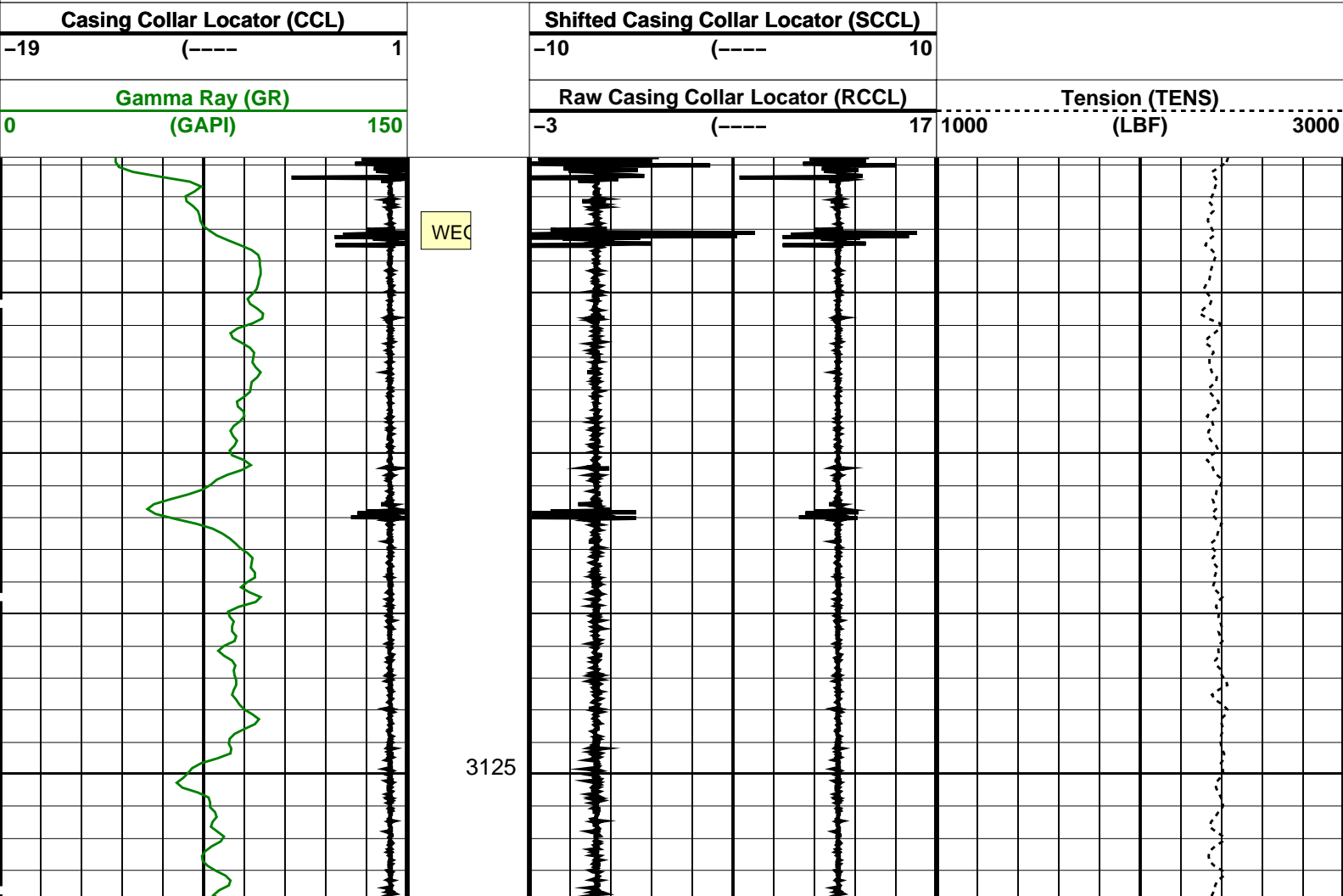
Graphics File Created: 19-Feb-2010 12:02

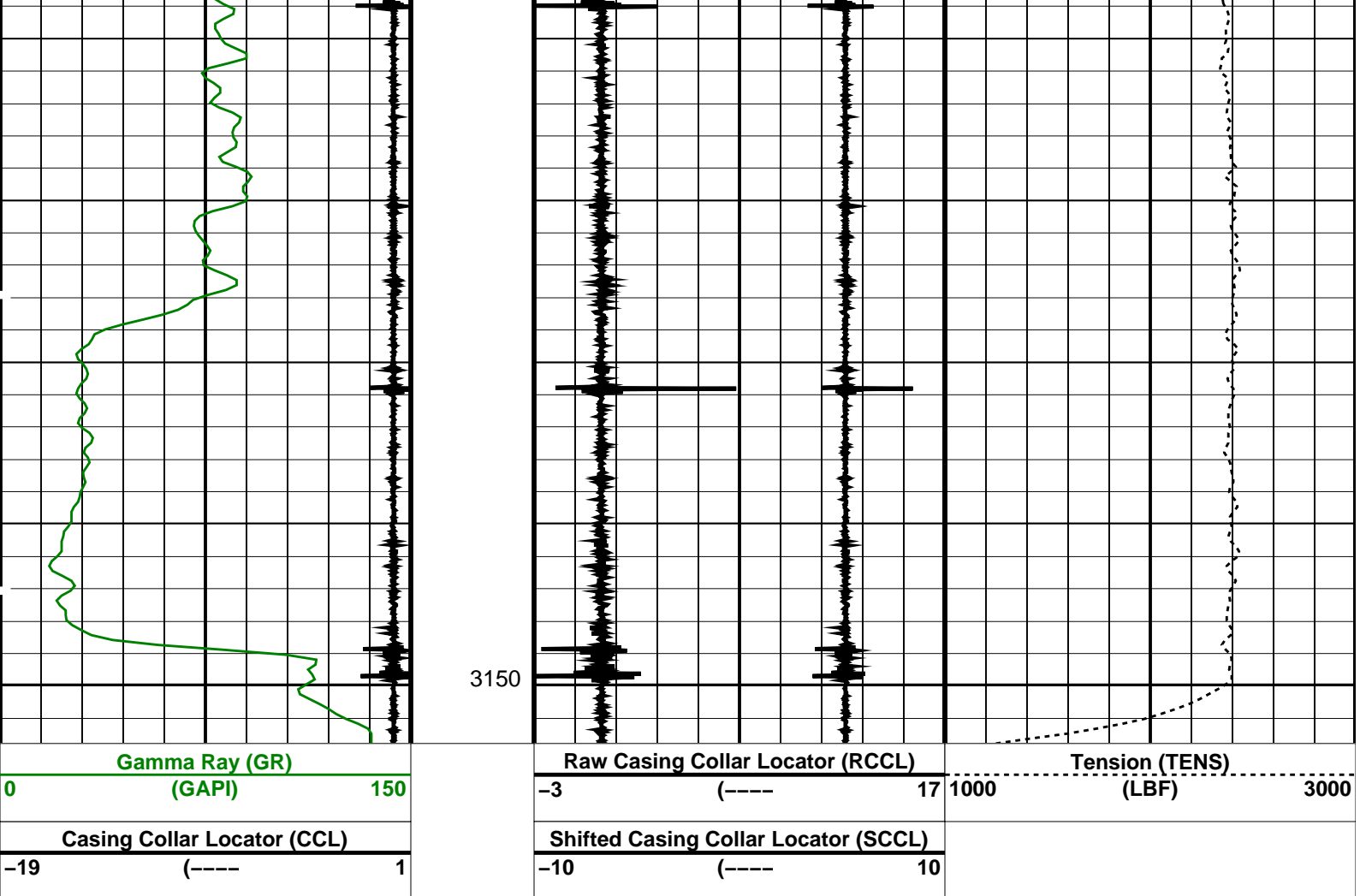
**OP System Version: 17C0-154**

Schlumberger

2 1/8" Phased Enerjet  
Correlation Pass

MAXIS Field Log





#### PIP SUMMARY

Time Mark Every 60 S

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 19-Feb-2010 11:54

#### OP System Version: 17C0-154

SHM\_GUN 17C0-154 SAFE 17C0-154  
UPCT-A 17C0-154

#### Output DLIS Files

DEFAULT PERFO\_049LUP FN:60 PRODUCER 19-Feb-2010 11:54

Company: **Esso Australia Pty Ltd.**

**Schlumberger**

Well: **FLOUNDER A23A**

Field: **FLOUNDER**

Rig: **Crane / Prod#4**

Country: **Australia**

2-1/8" Phased Powerjet

Perforating and MPBT Plug Setting Record

19-Feb-2010