

Company: Esso Australia Pty Ltd.

Well: FLOUNDER A15

Field: FLOUNDER

Rig: Crane / Prod#4

Country: Australia

**2 1/8" Phased Powerjet
Perforation and MPBT Plug Setting
24-Feb-2010**

Rig: Crane / Prod#4
Field: FLOUNDER
Location: Gippsland
Well: FLOUNDER A15
Company: Esso Australia Pty Ltd.

LOCATION	
Gippsland Basin Bass Strait	Elev.: K.B. 34.20 m G.L. -93.00 m D.F. 34.20 m
Permanent Datum: _____	M.S.L. _____
Log Measured From: _____	DF _____
Drilling Measured From: _____	DF _____
State: Victoria	Max. Well Deviation 40.3 deg
	Longitude 148°26'17.12"E
	Latitude 38°18'44.65"S

Logging Date	24-Feb-2010	
Run Number	1	
Depth Driller	3150 m	
Schlumberger Depth	3068.7 m	
Bottom Log Interval	3062 m	
Top Log Interval	3060.5 m	
Casing Fluid Type	Production Fluid	
Salinity		
Density		
Fluid Level		
BIT/CASING/TUBING STRING		
Bit Size	9.875 in	
From	645 m	
To	3150 m	
Casing/Tubing Size	5.500 in	
Weight	17 lbm/ft	
Grade	N-80	
From	1283 m	
To	3124 m	
Maximum Recorded Temperatures		
Logger On Bottom	24-Feb-2010	9:30
Unit Number	889	AUSL
Recorded By	C.Rowand / W.Mackenzie	
Witnessed By	G.Rimmer	

	Run 1	Run 2	R
PVT DATA			
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	40.3 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			
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			

DEPTH SUMMARY LISTING

Date Created: 25-FEB-2010 10:20:14

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-EB Serial Number: 6373 Calibration Date: 9-Oct-20009 Calibrator Serial Number: 30 Calibration Cable Type: 2-32ZT Wheel Correction 1: 0 Wheel Correction 2: 2	Type: PSDS/OSDS Serial Number: 325357 Calibration Date: 2-Feb-2010 Calibrator Serial Number: 854 Number of Calibration Points: 10 Calibration RMS: 23 Calibration Peak Error: 34	Type: 2-32ZT Serial Number: 208558 Length: 6010 M Conveyance Method: Wireline Rig Type: Offshore Fixed

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Composite
Reference Log Run Number:	
Reference Log Date:	
Subsequent Trip Down Log Correction:	-3.00 M

Depth Control Remarks

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 12.6m.
- 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: Cement Bailer OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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REMARKS: RUN NUMBER 1 Log Correlated to Solar composite log provided by client . Objectives : Perforate interval 3060.5-3062m, set MPBT 5-1/2" plug at 3062.5m and dump 0.5m of cement on top of the plug. Gun #1: 3060.5-3062m. SAFE firing system utilised.	REMARKS: RUN NUMBER 2
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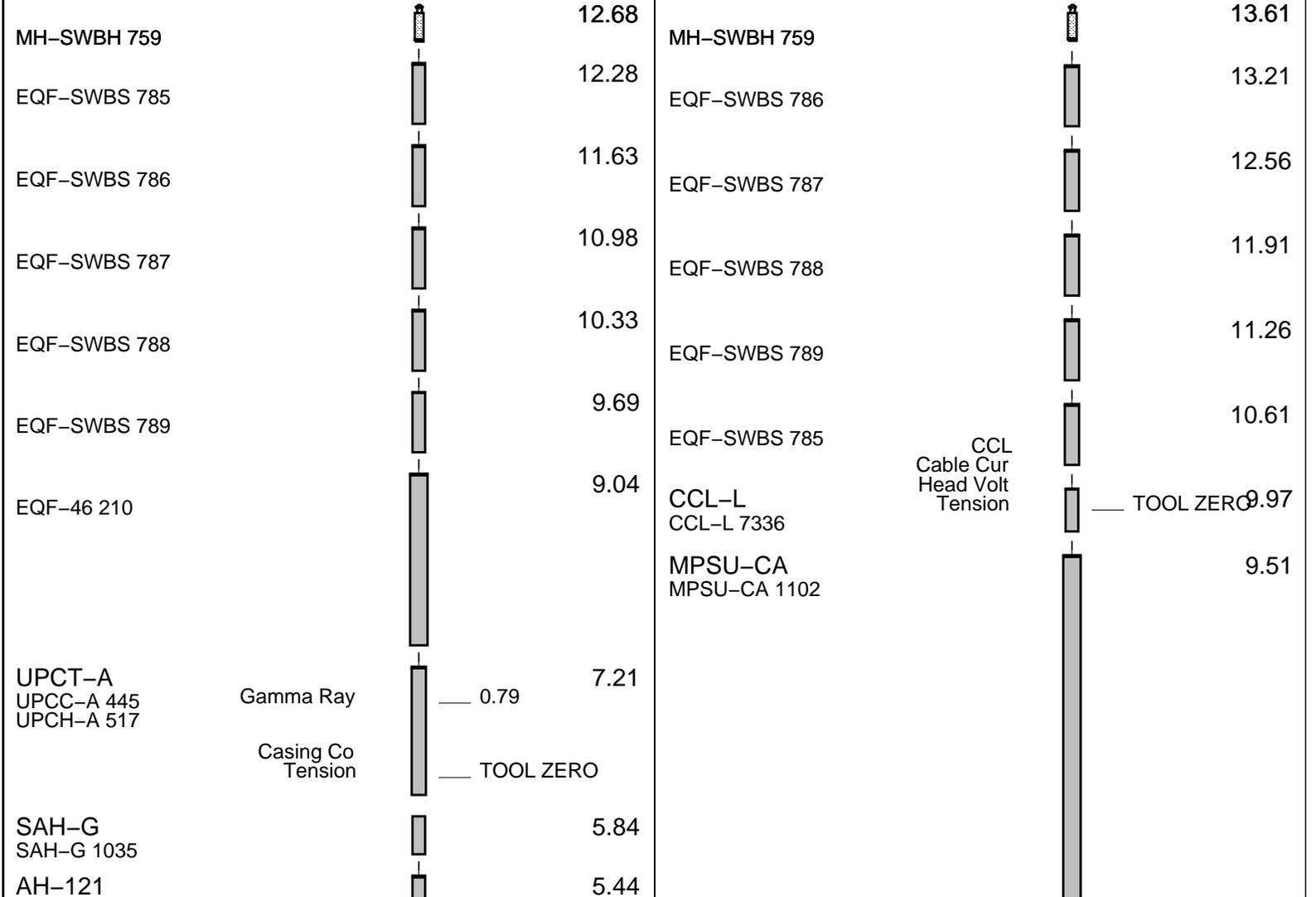
MPBT plug (H345042) set at 3062.8m, at client request.	
0.5m of water and cement dumped on top.	
2-1/8" ph. Powerjet API data:-	
Penetration = 27.2"	
Entrance Hole = 0.32"	
Multiple 'hanging up' issues were encountered between 1230-1285m	
when running the gun and MPBT plug. The first gun attempt	
resulted in an Incomplete Operation, due to the strip buckling	
and therefore had to be POOH.	

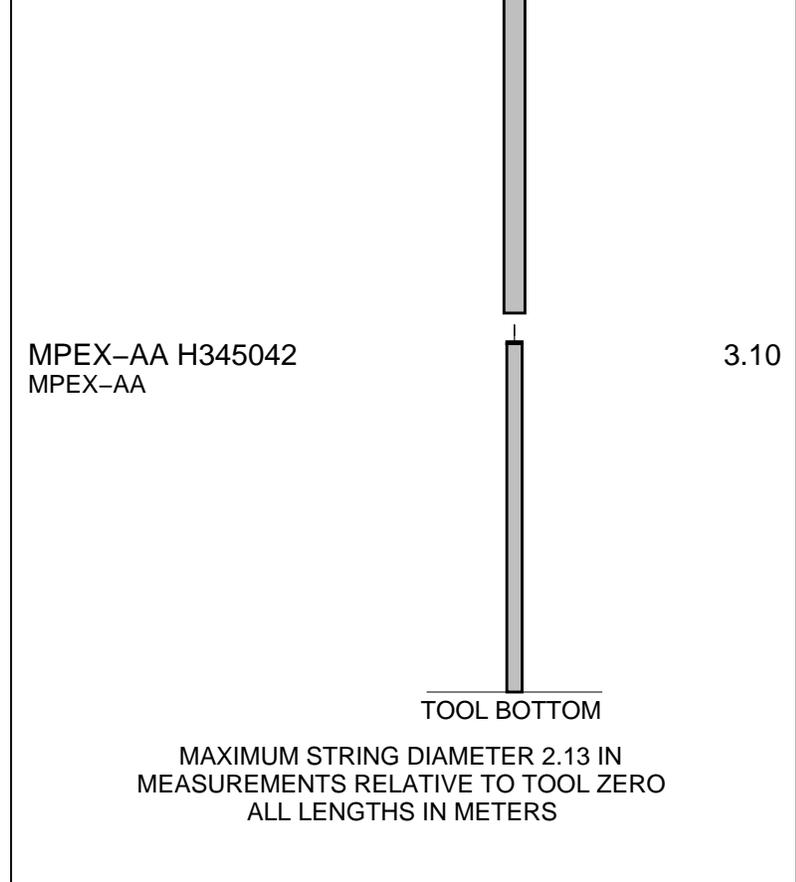
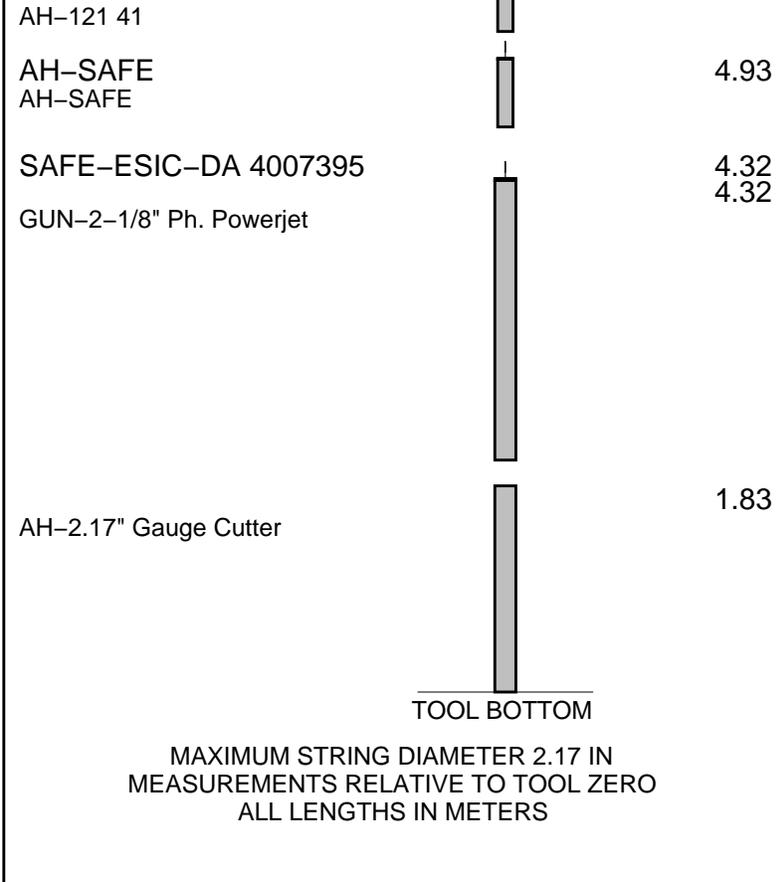
RUN 1			RUN 2		
SERVICE ORDER #:		AUSL07336256	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	SURFACE EQUIPMENT
WITM (SHM)	WITM (SHM)

DOWNHOLE EQUIPMENT	DOWNHOLE EQUIPMENT
<p>MH-SWBH 759 12.68</p> <p>EQF-SWBS 785 12.28</p> <p>EQF-SWBS 786 11.63</p> <p>EQF-SWBS 787 10.98</p> <p>EQF-SWBS 788 10.33</p> <p>EQF-SWBS 789 9.69</p> <p>EQF-46 210 9.04</p> <p>UPCT-A 7.21</p> <p>UPCC-A 445 0.79</p> <p>UPCH-A 517</p> <p>SAH-G 5.84</p> <p>SAH-G 1035</p> <p>AH-121 5.44</p>	<p>MH-SWBH 759 13.61</p> <p>EQF-SWBS 786 13.21</p> <p>EQF-SWBS 787 12.56</p> <p>EQF-SWBS 788 11.91</p> <p>EQF-SWBS 789 11.26</p> <p>EQF-SWBS 785 10.61</p> <p>CCL-L 9.97</p> <p>CCL-L 7336</p> <p>MPSU-CA 9.51</p> <p>MPSU-CA 1102</p>

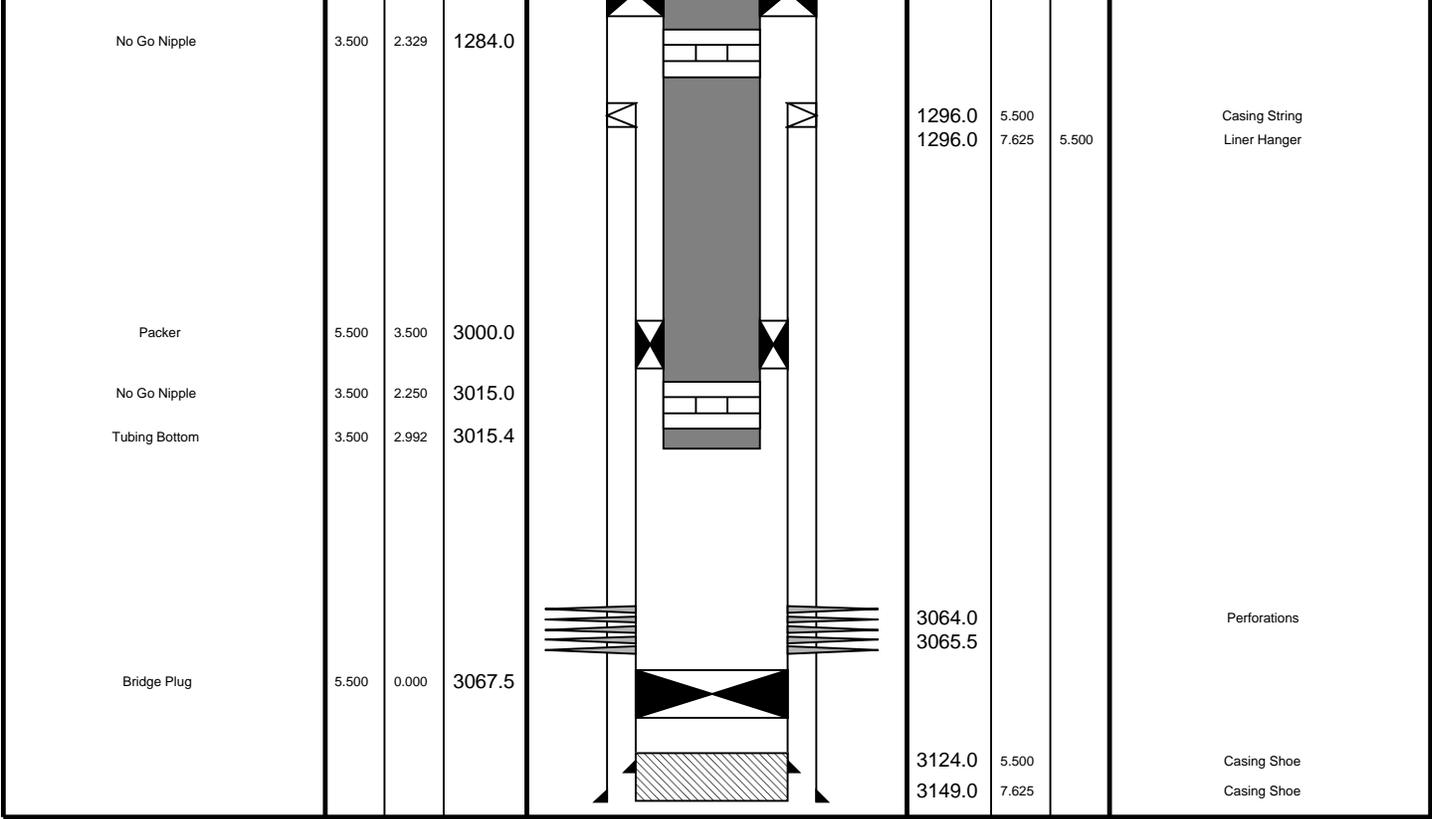




Client: Esso Australia Pty Ltd
 Well: FLA A15
 Field: Flounder
 State: Victoria
 Country: Australia

Rig Name: Prod 4 / Crane
 Reference Datum: Mean Sea Level
 Elevation: 34.2 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	7.625	3.500	12.6		13.0	10.375		Casing String
Tubing	3.500	2.992			14.0	10.375	7.625	Liner Hanger
SSSV	3.500	2.750	457.7					
Side Pocket Mandrel	3.500	2.920	863.0		644.0	10.375		Casing Shoe
Side Pocket Mandrel	3.500	2.920	1210.0					
Nipple	3.500	2.750	1226.0					
Packer	7.625	3.500	1238.0					
Nipple	3.500	2.750	1245.0					
Expansion Joint	3.500	2.972	1249.0					
No Go Nipple	3.500	2.635	1266.0					
Overshot			1268.9					
Packer	7.625	3.500	1269.0					



Cement Bailer #2 Dump Record

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
CEMENT BAILER	Used	3062.5	3062.4	Thu Feb 25 12:07:46 201

Output DLIS Files

OP System Version: 17C0-154

SHM_GUN

17C0-154

CCL-L

17C0-154

PIP SUMMARY

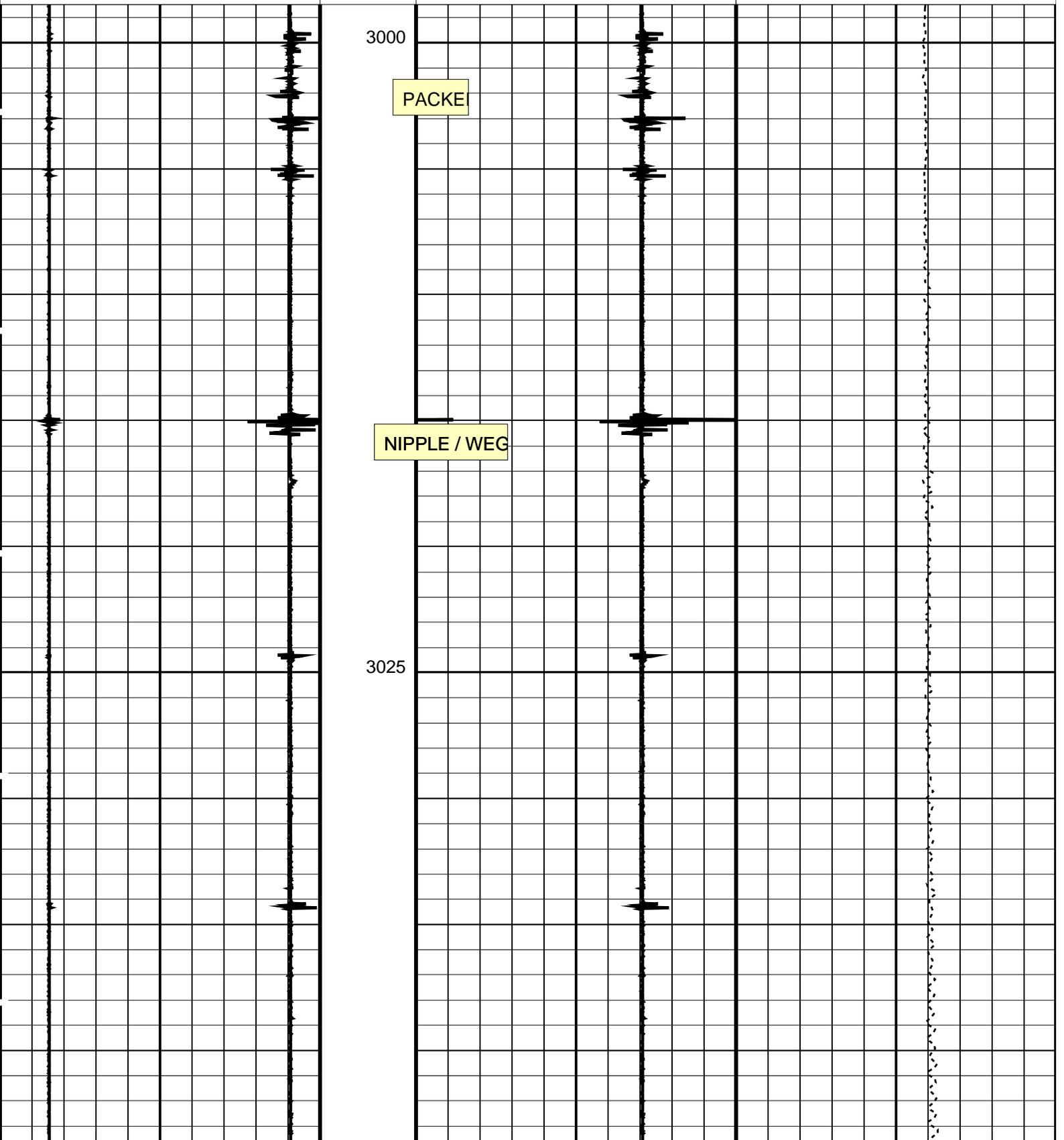
Time Mark Every 60 S

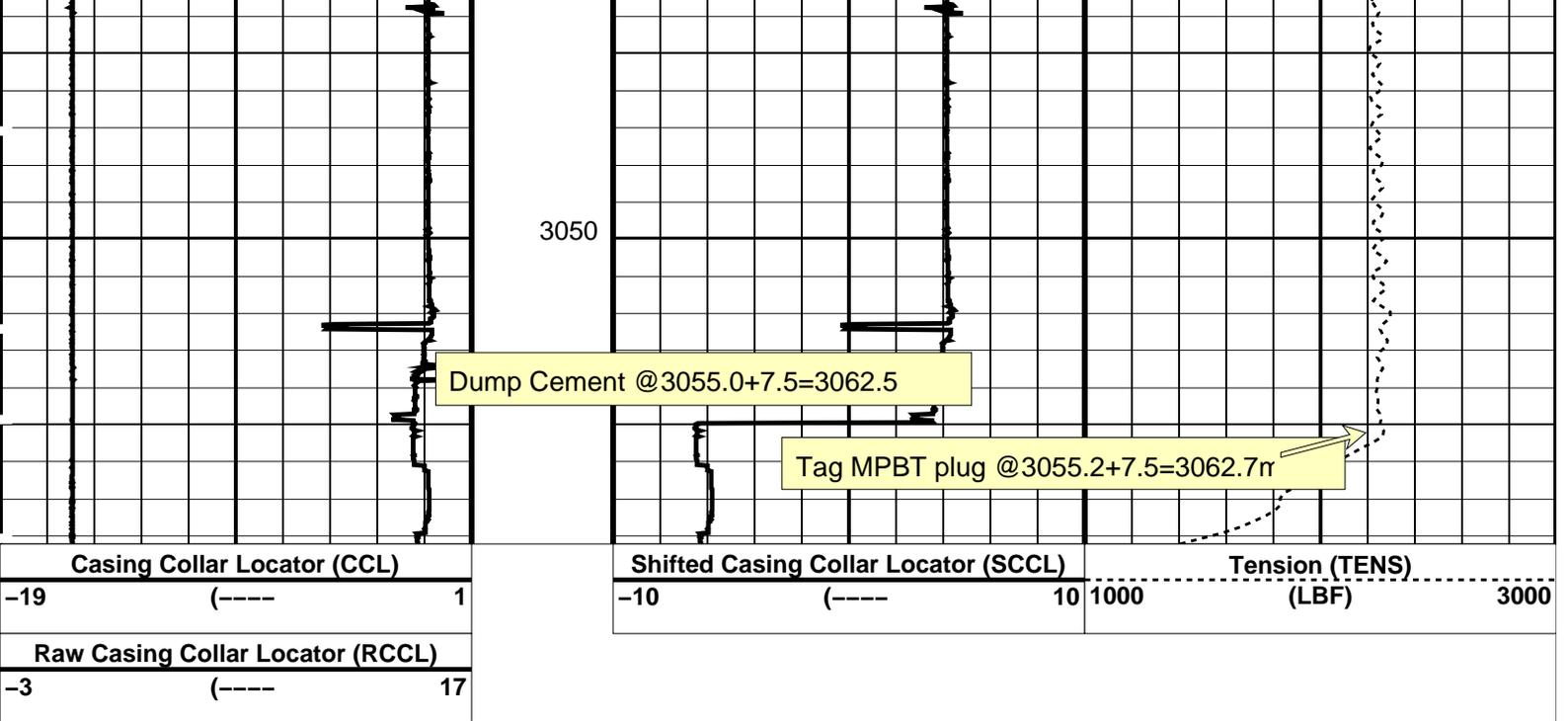
Raw Casing Collar Locator (RCCL)
-3 (----) 17

Casing Collar Locator (CCL)
-19 (----) 1

Shifted Casing Collar Locator (SCCL)
-10 (----) 10

Tension (TENS)
(LBF) 1000 3000





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: 25-Feb-2010 12:05

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

Output DLIS Files

DEFAULT PERFO_056LUP FN:59 PRODUCER 25-Feb-2010 12:05



Water Bailer #1
Dump Record

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
-----	-----	-----	-----	-----
WATER BAILER	Used	3062.5	3062.5	Thu Feb 25 09:57:18 201

Output DLIS Files

DEFAULT PERFO_054LUP FN:57 PRODUCER 25-Feb-2010 09:54 3058.2 M 2996.8 M

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

PIP SUMMARY

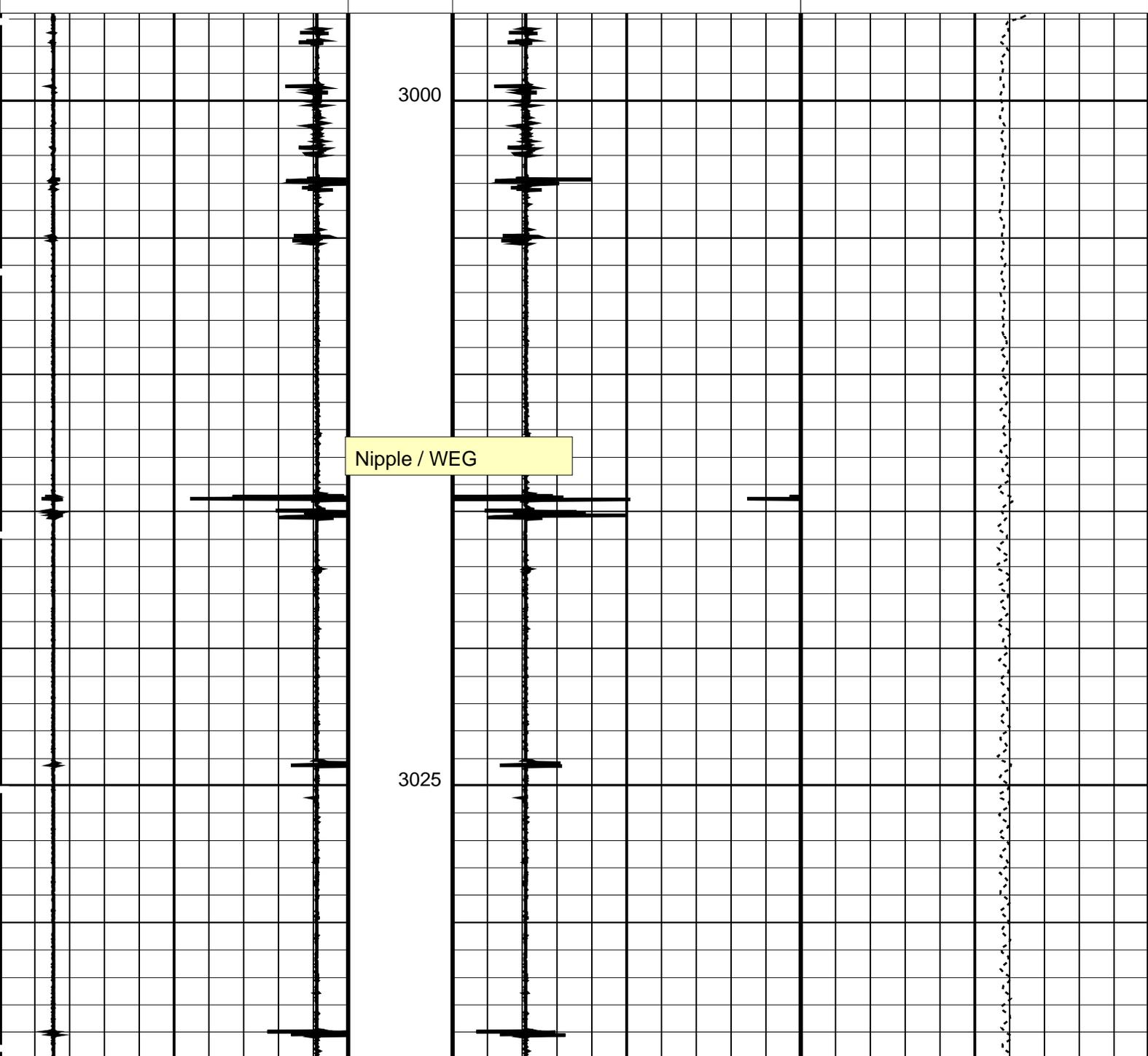
Time Mark Every 60 S

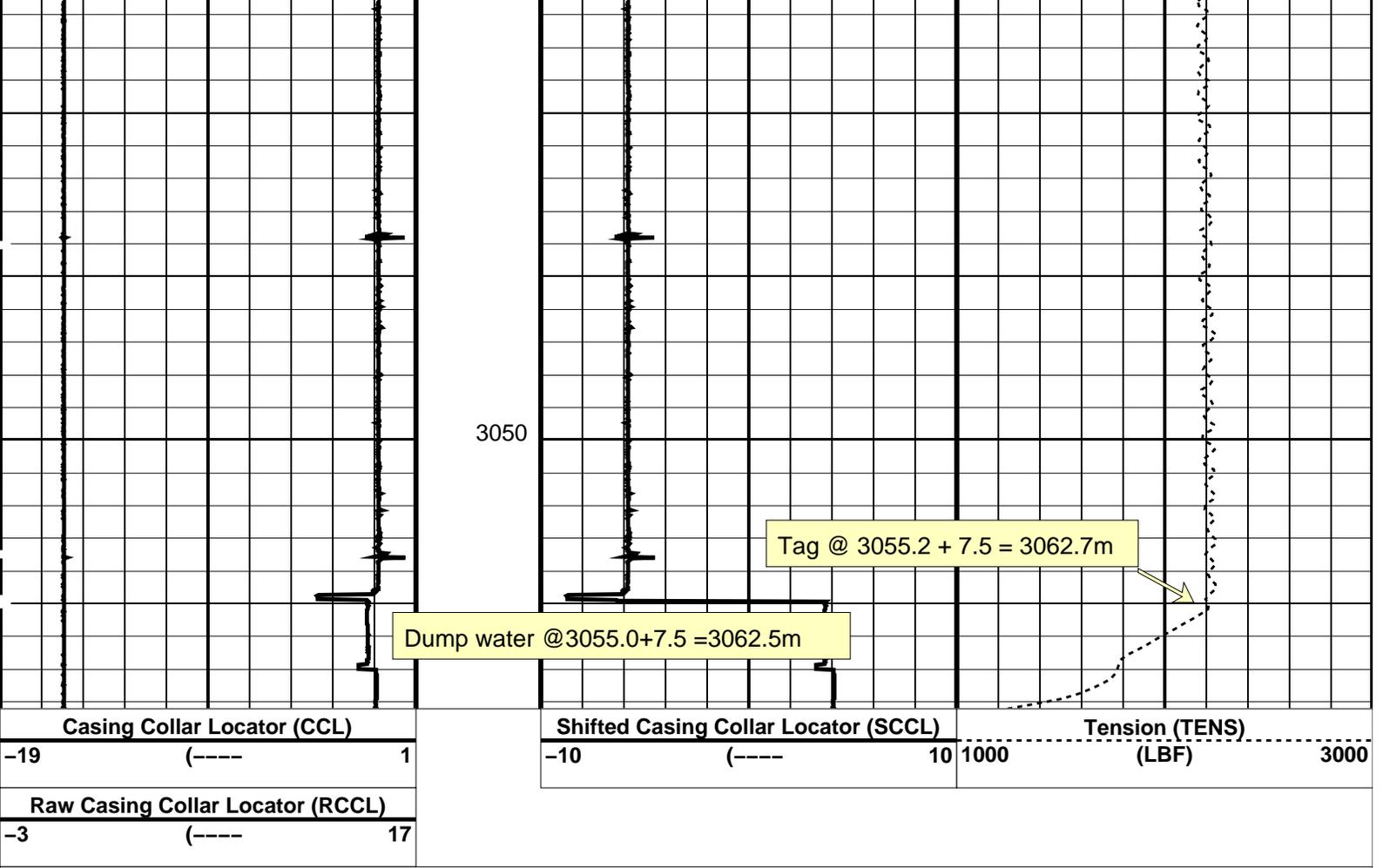
Raw Casing Collar Locator (RCCL)
-3 (----) 17

Casing Collar Locator (CCL)
-19 (----) 1

Shifted Casing Collar Locator (SCCL)
-10 (----) 10

Tension (TENS)
(LBF) 1000 3000





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: 25-Feb-2010 09:54

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

Output DLIS Files

DEFAULT PERFO_054LUP FN:57 PRODUCER 25-Feb-2010 09:54



MPBT
Log Out of Position

MAXIS Field Log

Output DLIS Files

DEFAULT

MPBT_046LUP

FN:49

PRODUCER

24-Feb-2010 17:20

OP System Version: 17C0-154

MPEX-AA

17C0-154

MPSU-CA

17C0-154

CCL-L

17C0-154

PIP SUMMARY

Time Mark Every 60 S

Raw Casing Collar Locator (RCCL)

-3 (----) 17

Casing Collar Locator (CCL)

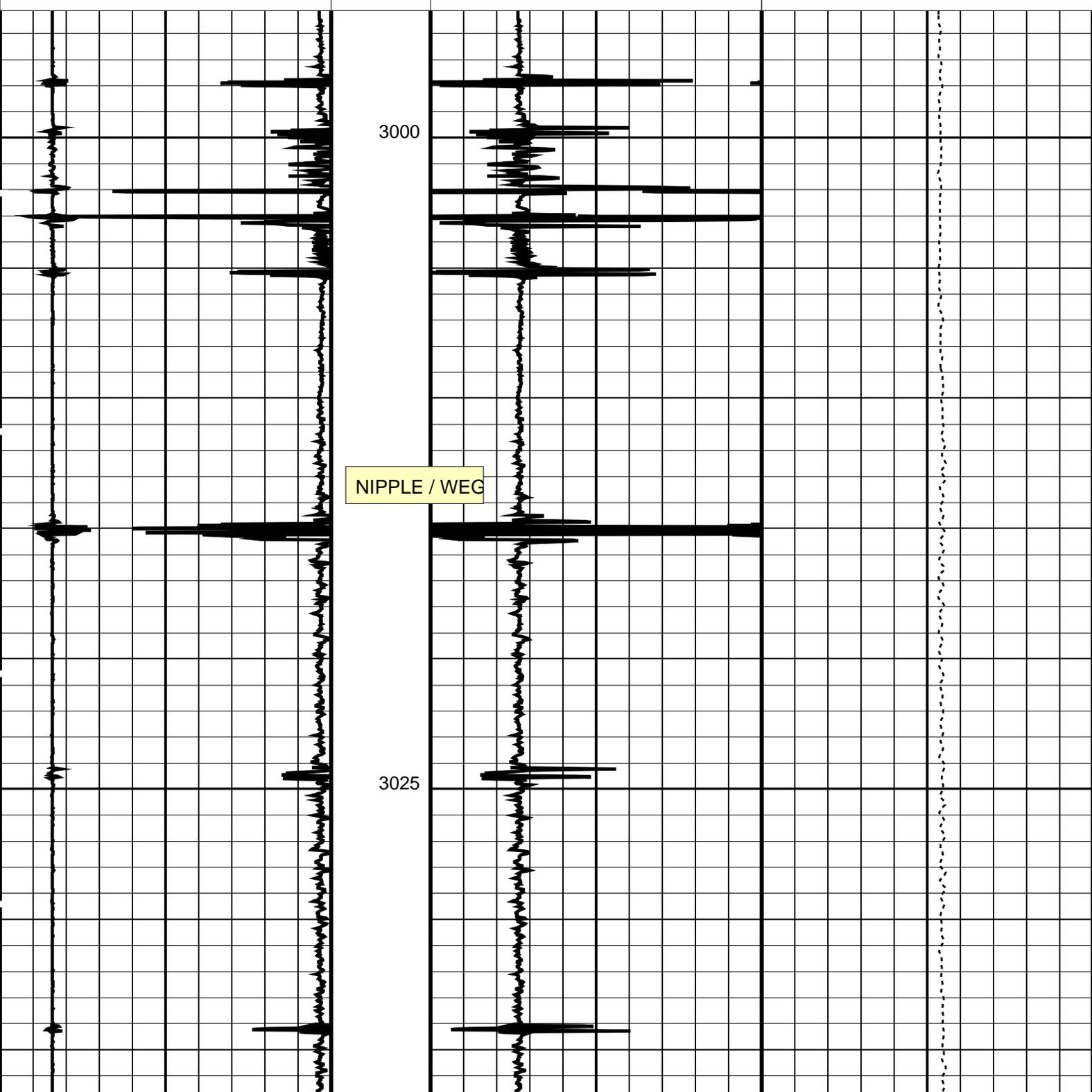
-19 (----) 1

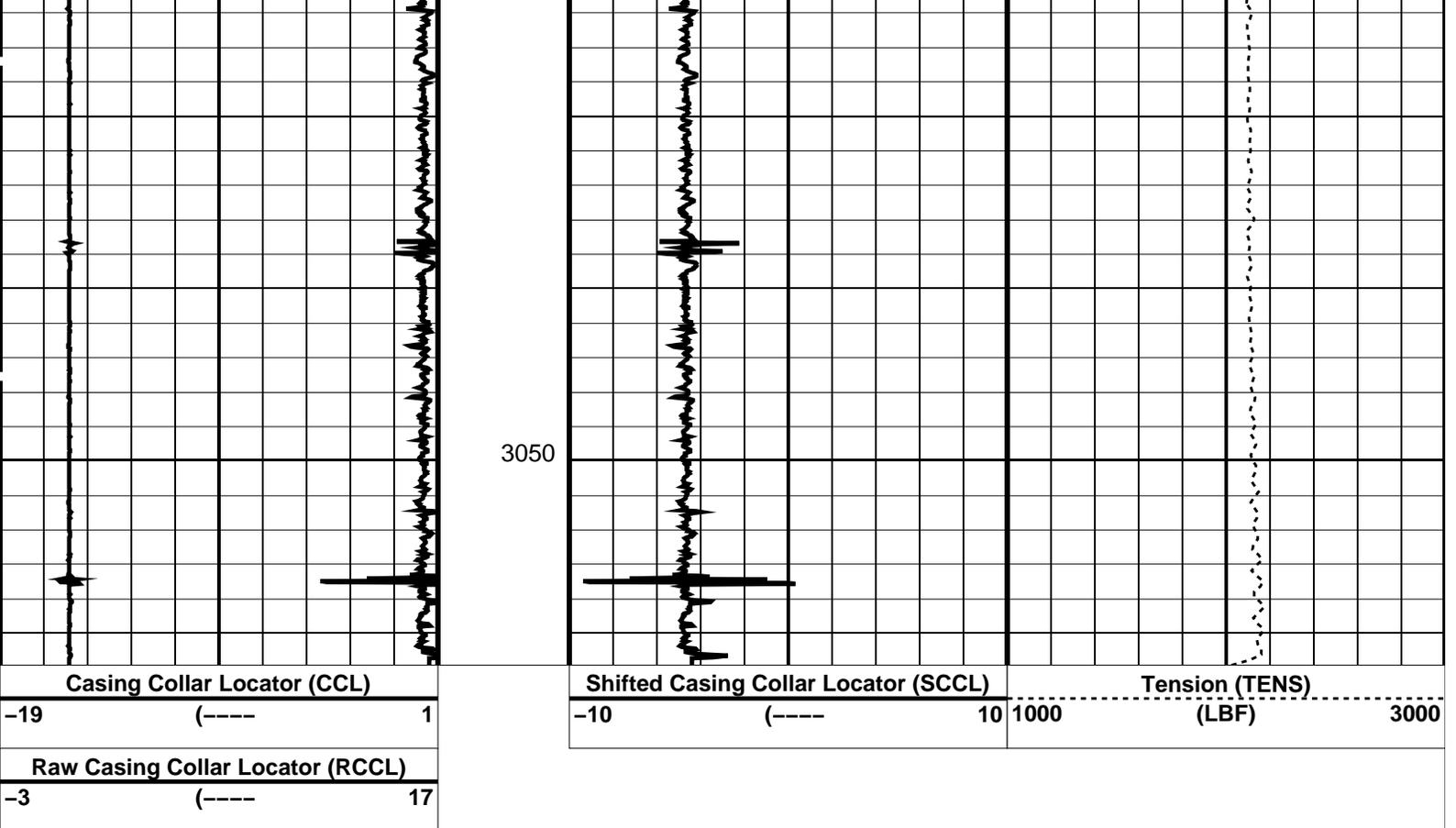
Shifted Casing Collar Locator (SCCL)

-10 (----) 10

Tension (TENS)

1000 (LBF) 3000





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: 24-Feb-2010 17:20

OP System Version: 17C0-154

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

Output DLIS Files

DEFAULT	MPBT_046LUP	FN:49	PRODUCER	24-Feb-2010 17:20
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**MPBT
Setting Record**

MAXIS Field Log

PERFO2 Operational Summary Listing

Device Status Req Depth (M) Obs Depth (M) Time Used

Company: Esso Australia Pty Ltd.

Well: FLOUNDER A15

Output DLIS Files

DEFAULT MPBT_044LUP FN:47 PRODUCER 24-Feb-2010 16:52

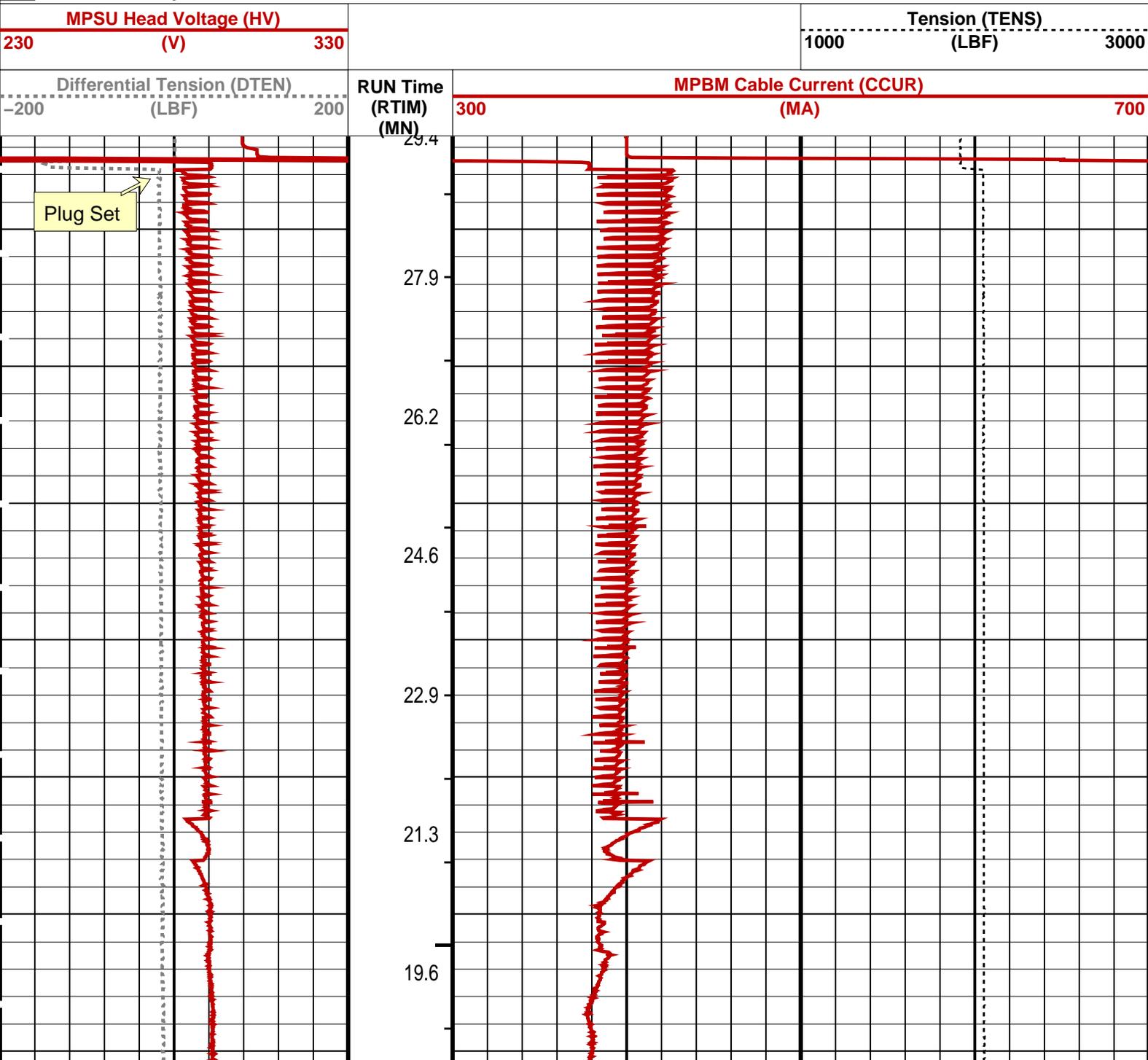
OP System Version: 17C0-154

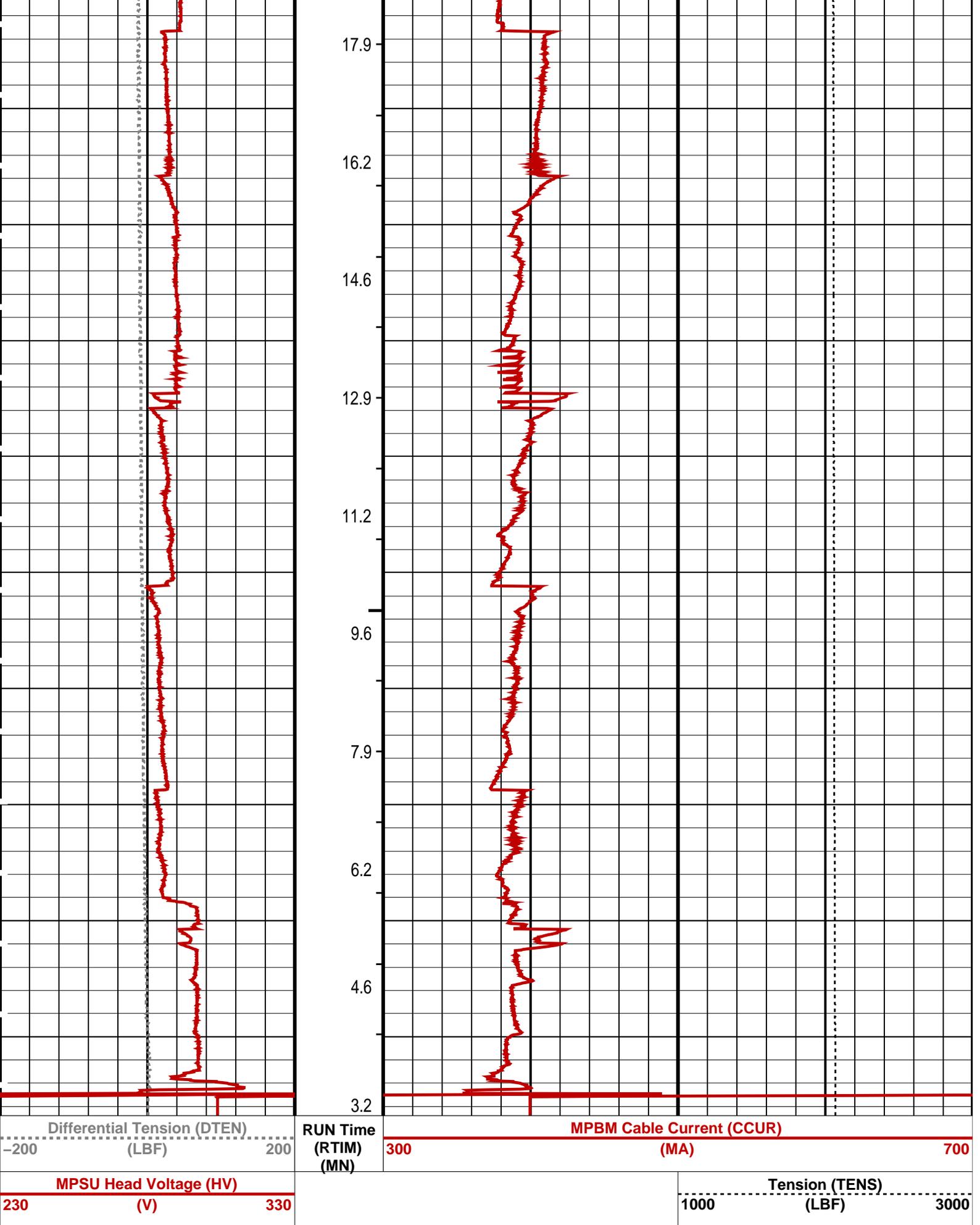
MPEX-AA 17C0-154 MPSU-CA 17C0-154
CCL-L 17C0-154

PIP SUMMARY

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

Time Mark Every 60 S





Time Mark Every 60 S

PIP SUMMARY

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

Parameters

DLIS Name	Description	Value
MPSU-CA	MECHANICAL PLUGBACK SETTING UNIT	
IPUMP	Intensifier Pump	TRUE

Format: MPBT_1 Vertical Scale: 1:1000 Graphics File Created: 24-Feb-2010 16:52

OP System Version: 17C0-154

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

Output DLIS Files

DEFAULT	MPBT_044LUP	FN:47	PRODUCER	24-Feb-2010 16:52
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MPBT
Correlation

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: FLOUNDER A15

Output DLIS Files

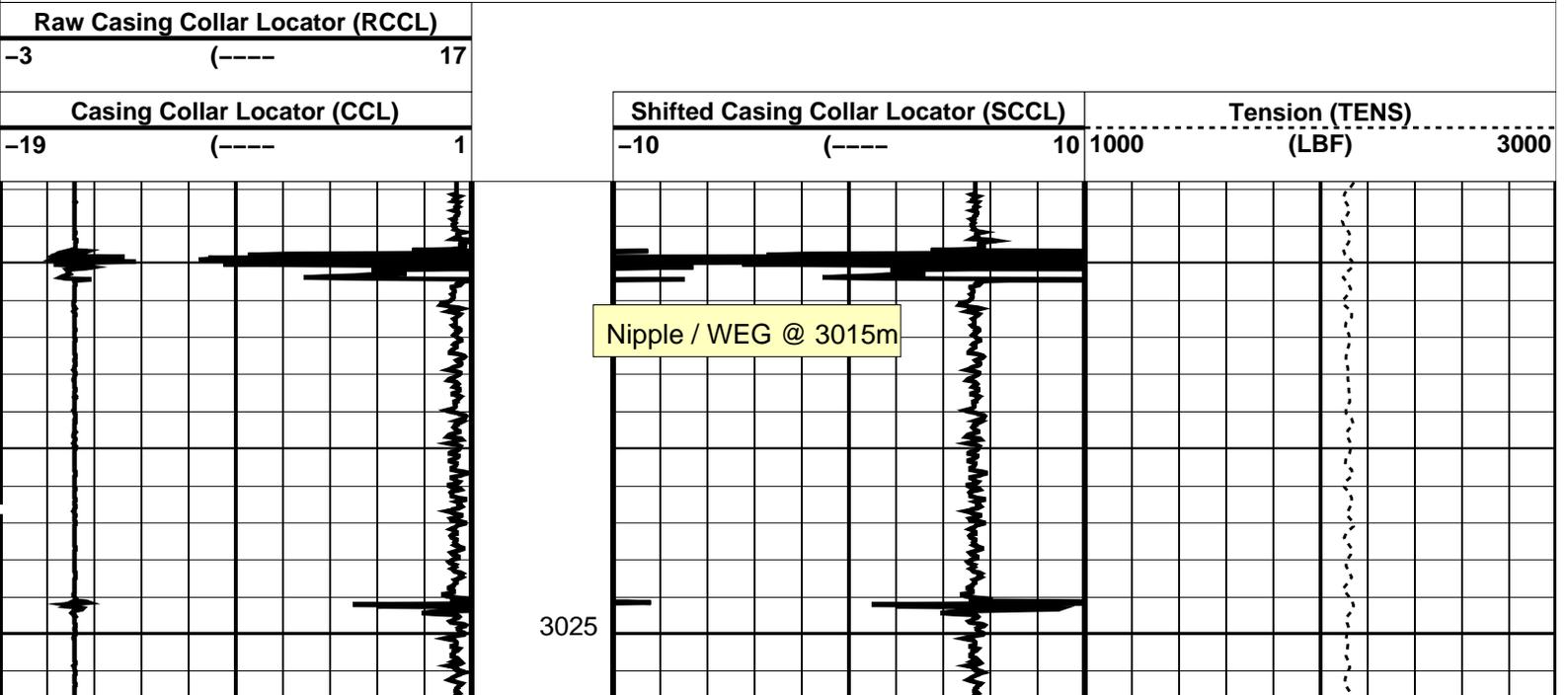
DEFAULT	MPBT_041LUP	FN:44	PRODUCER	24-Feb-2010 16:38	3056.5 M	3012.8 M
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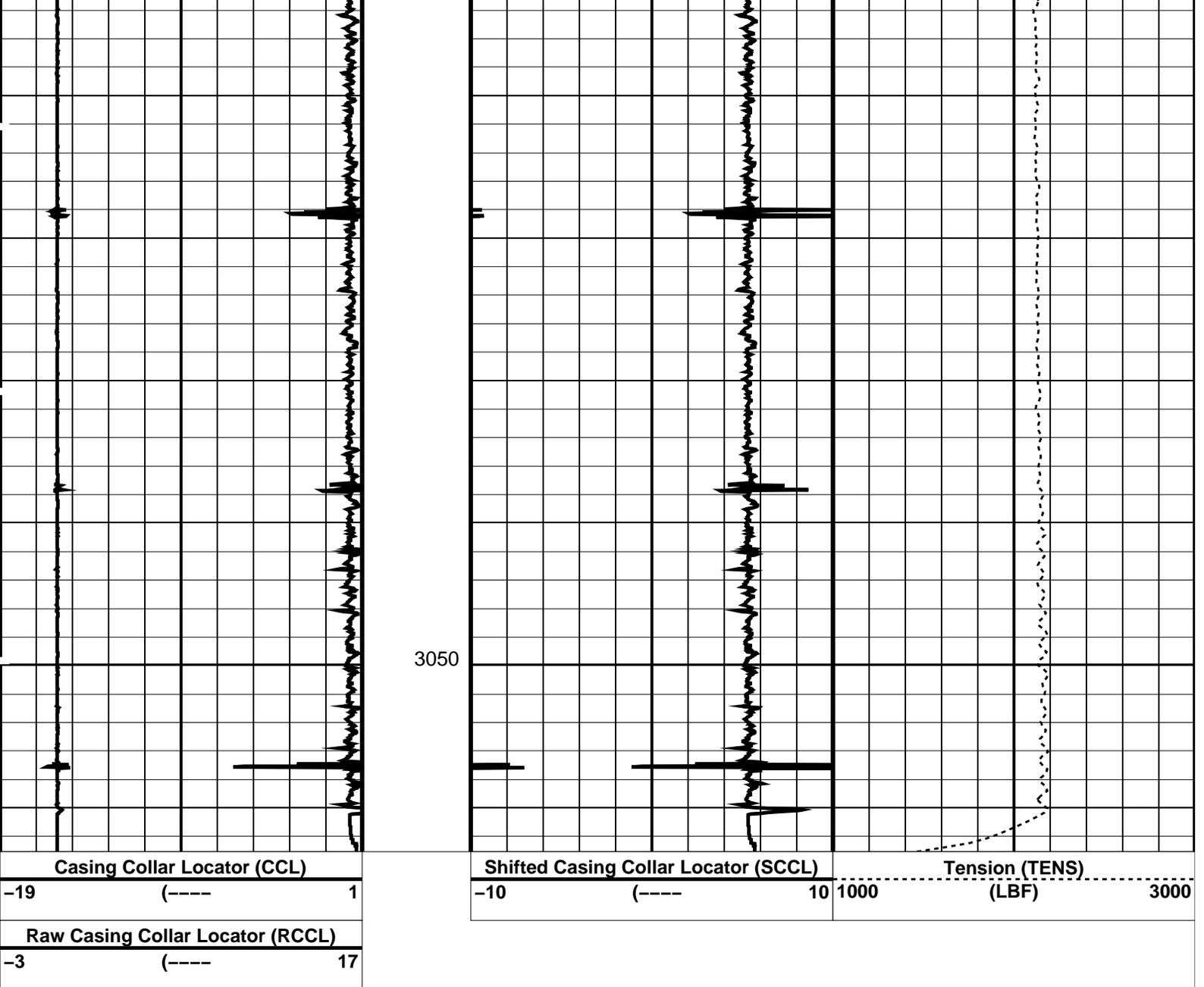
OP System Version: 17C0-154

MPEX-AA	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: 24-Feb-2010 16:38

OP System Version: 17C0-154

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

Output DLIS Files

DEFAULT	MPBT_041LUP	FN:44	PRODUCER	24-Feb-2010 16:38
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Correlation

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: FLOUNDER A15

Input DLIS Files

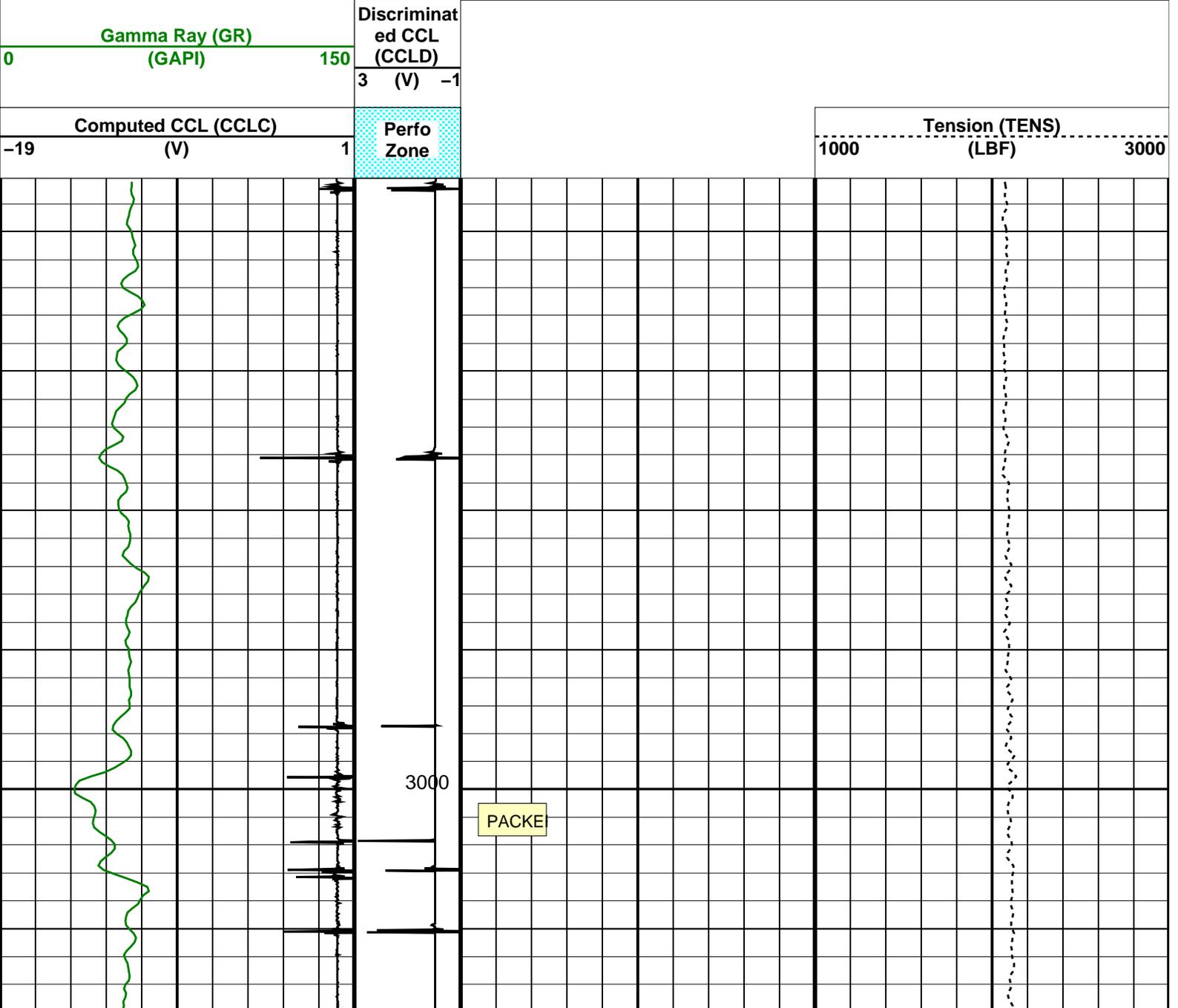
DEFAULT	PSP_037LUP	FN:36	PRODUCER	24-Feb-2010 13:30	3072.7 M	2979.1 M
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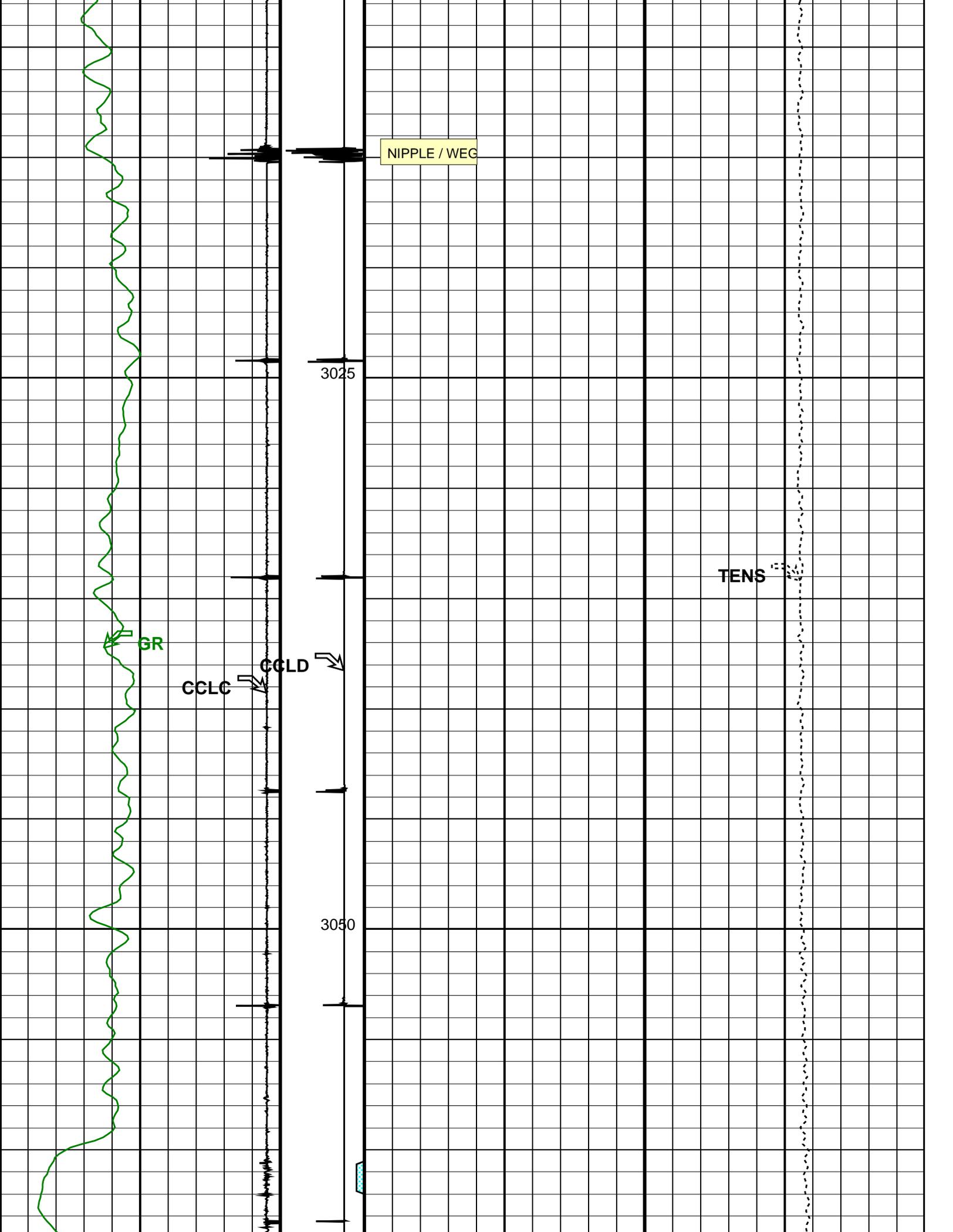
Output DLIS Files

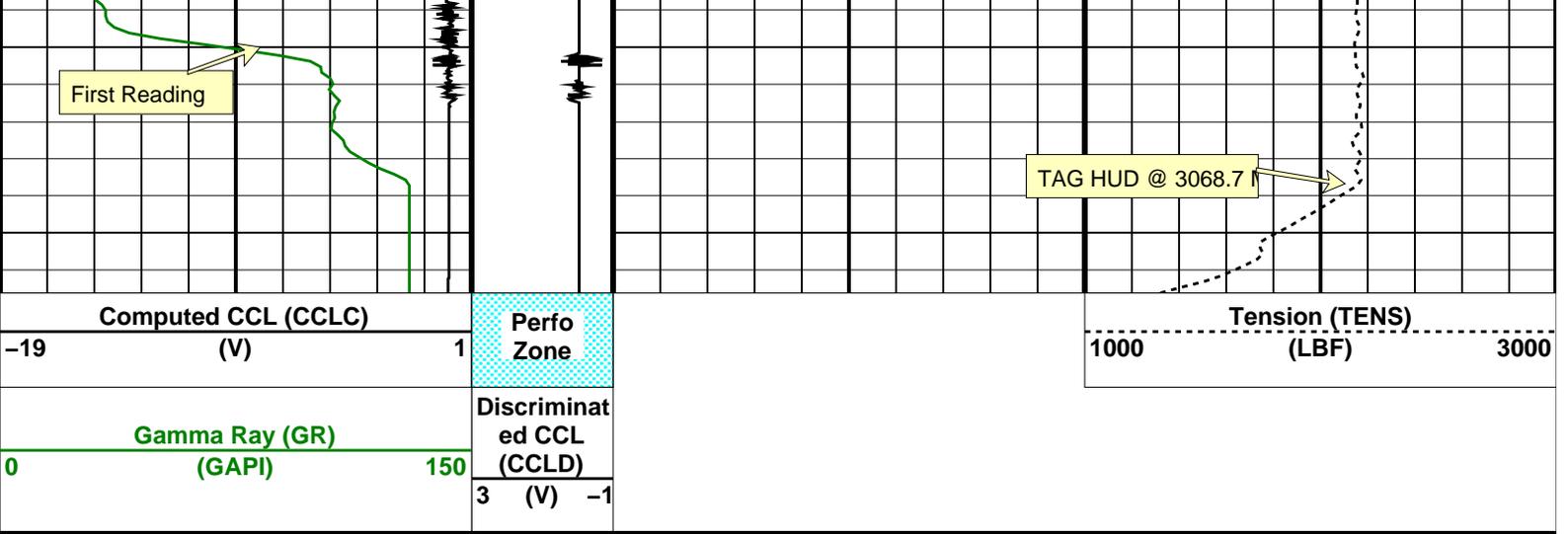
DEFAULT	PSP_037PUP	FN:39	PRODUCER	24-Feb-2010 14:02	3071.6 M	2978.0 M
CUST	PSP_037PUC	FN:40	CUSTOMER	24-Feb-2010 14:02	3071.6 M	2978.0 M

OP System Version: 17C0-154

PSPT SRPC-3870_Q3_2009_OP17_V3







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

Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 24-Feb-2010 14:02

OP System Version: 17C0-154

PSPT SRPC-3870_Q3_2009_OP17_V3

Input DLIS Files						
DEFAULT	PSP_037LUP	FN:36	PRODUCER	24-Feb-2010 13:30	3072.7 M	2979.1 M
Output DLIS Files						
DEFAULT	PSP_037PUP	FN:39	PRODUCER	24-Feb-2010 14:02		
CUST	PSP_037PUC	FN:40	CUSTOMER	24-Feb-2010 14:02		



**2-1/8" Ph. Powerjets
Log Out of Position**

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: FLA A15

Output DLIS Files						
DEFAULT	PERFO_031LUP	FN:30	PRODUCER	24-Feb-2010 09:57	3057.6 M	2985.8 M

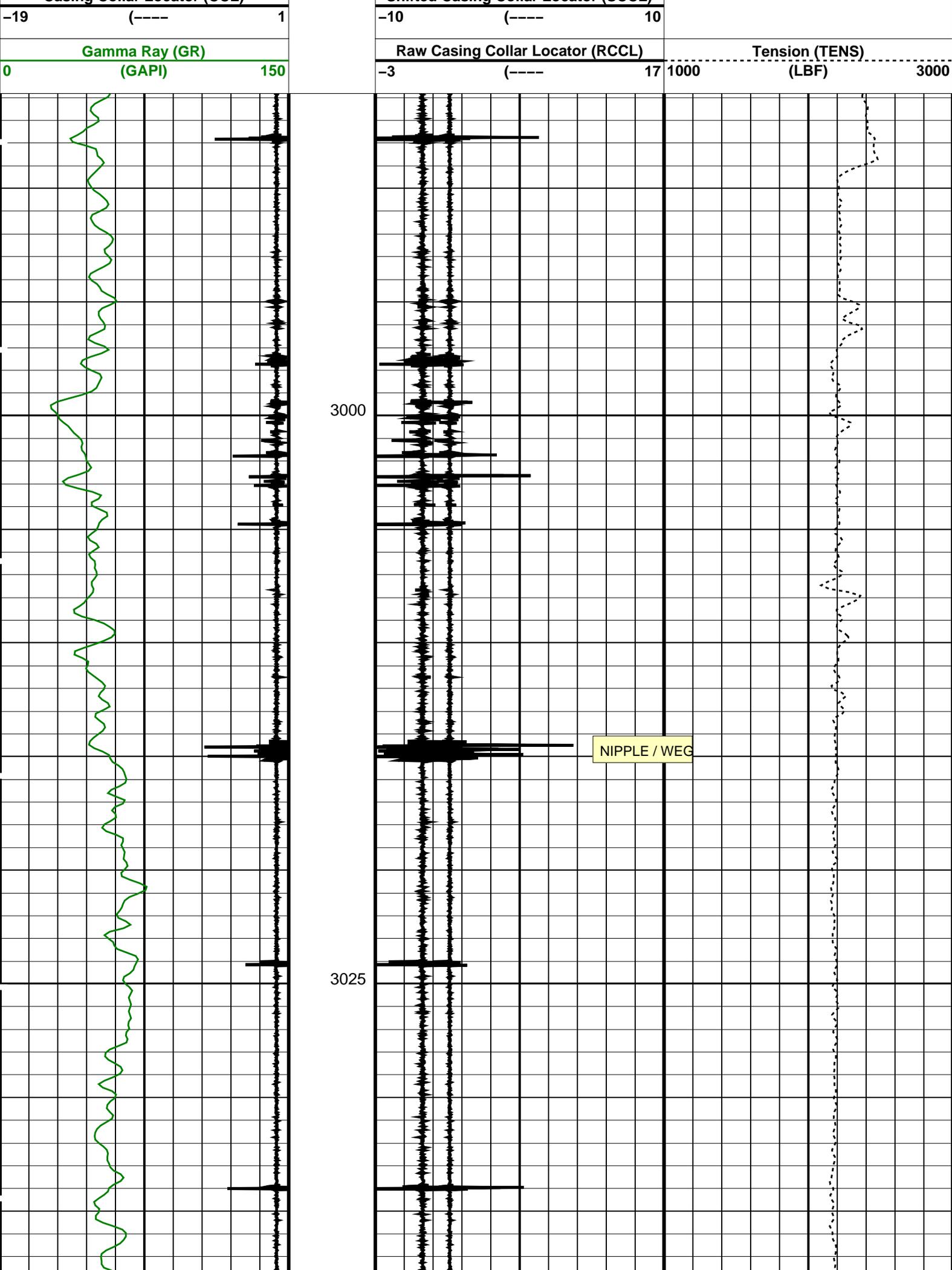
OP System Version: 17C0-154

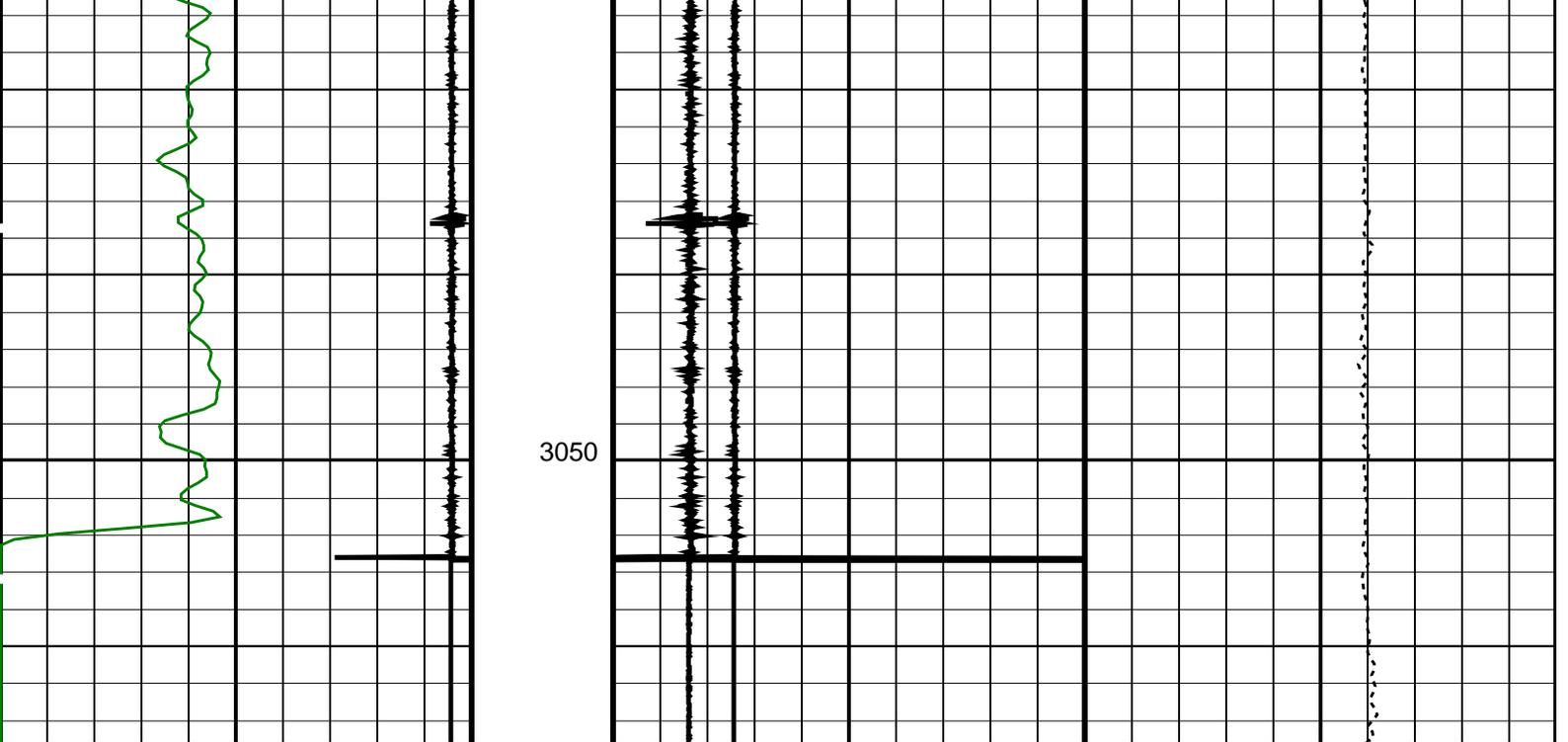
SHM_GUN 17C0-154 SAFE 17C0-154
UPCT-A 17C0-154

PIP SUMMARY

Time Mark Every 60 S

Casina Collar Locator (CCL) Shifted Casina Collar Locator (SCCL)





Gamma Ray (GR) (GAPI) 0 150	Raw Casing Collar Locator (RCCL) -3 (----) 17 1000	Tension (TENS) (LBF) 3000
Casing Collar Locator (CCL) -19 (----) 1	Shifted Casing Collar Locator (SCCL) -10 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 24-Feb-2010 09:57

OP System Version: 17C0-154

SHM_GUN	17C0-154	SAFE	17C0-154
UPCT-A	17C0-154		

Output DLIS Files

DEFAULT	PERFO_031LUP	FN:30	PRODUCER	24-Feb-2010 09:57
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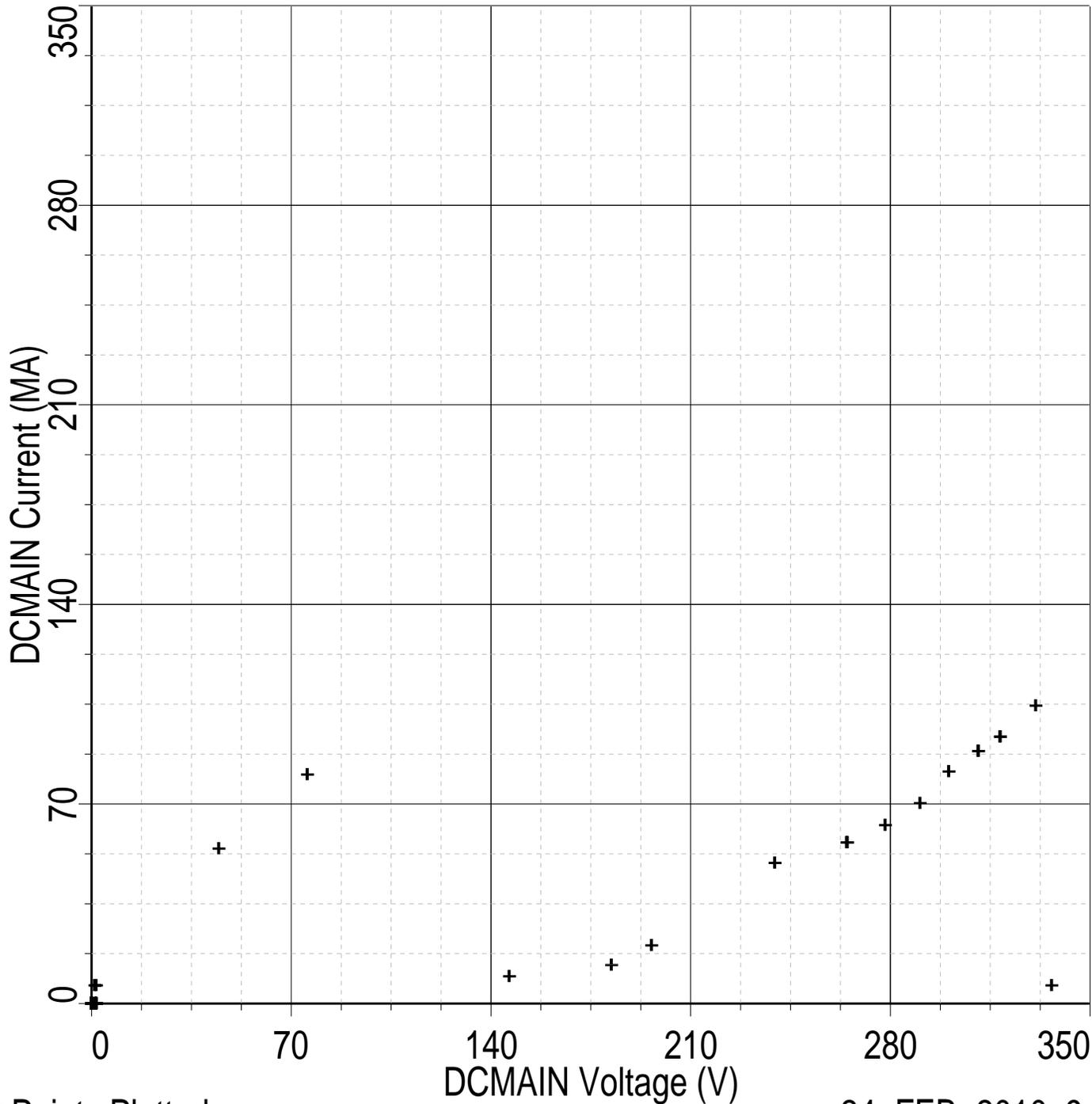


**2-1/8" Ph. Powerjets
ESIC Activation**

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
GUN1	Used	3060.5	3060.5	Wed Feb 24 09:56:01 2010



62 Points Plotted

24-FEB-2010 9:56

Company: Esso Australia Pty Ltd.

Well: FLA A23a

Output DLIS Files

DEFAULT PERFO_030LUP FN:29 PRODUCER 24-Feb-2010 09:55 12192.0 M 12176.0 M

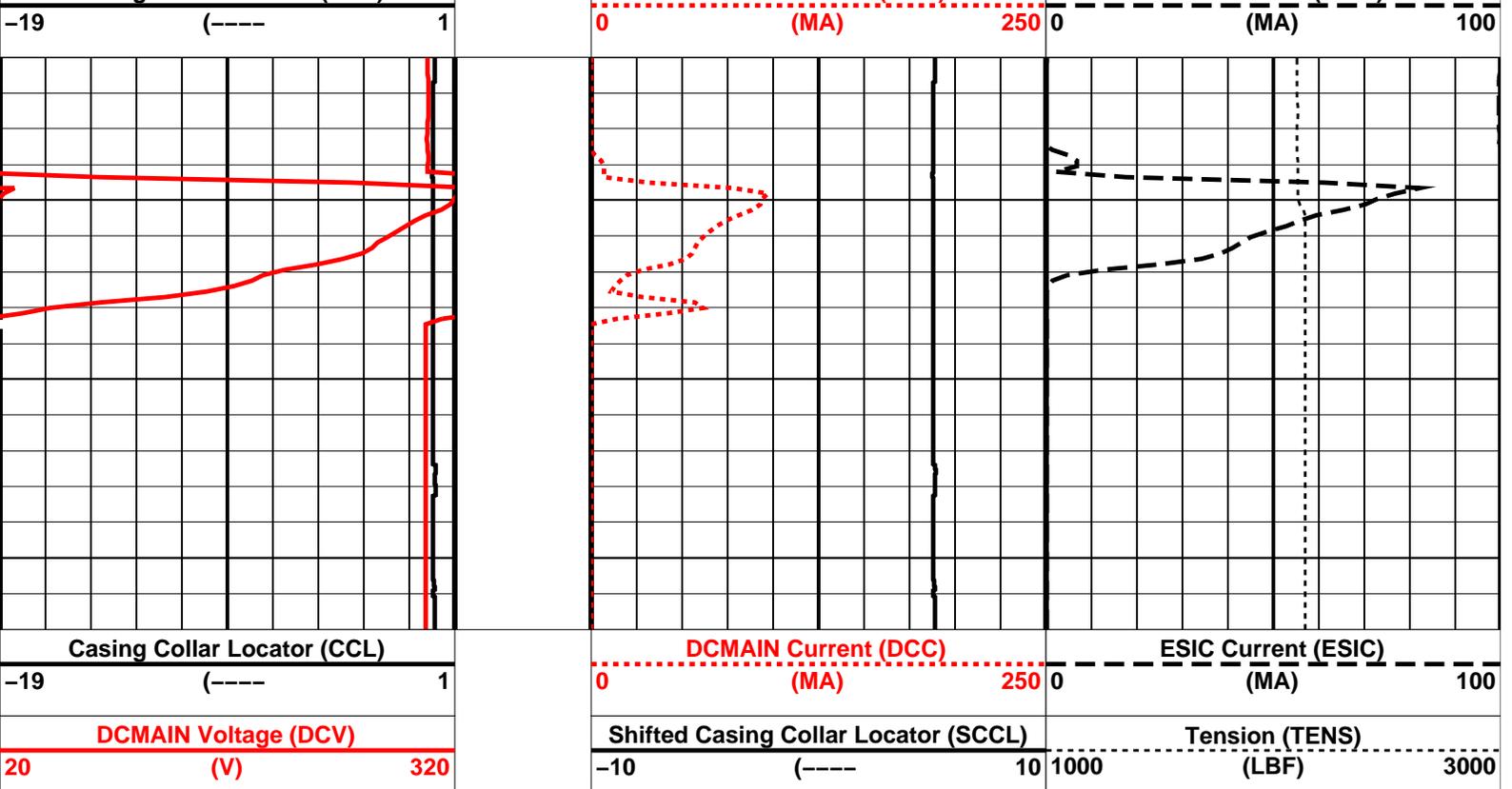
OP System Version: 17C0-154

SHM_GUN 17C0-154 SAFE 17C0-154
 UPCT-A 17C0-154

PIP SUMMARY

Time Mark Every 60 S

DCMAIN Voltage (DCV)	Shifted Casing Collar Locator (SCCL)	Tension (TENS)
20 (V) 320	-10 (----) 10	1000 (LBF) 3000
Casing Collar Locator (CCL)	DCMAIN Current (DCC)	ESIC Current (ESIC)



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SAFE	SAFE DETONATING SYSTEM	
ESDT	ESIC Shot Depth Temperature	110 DEGC
Format: PERFO	Vertical Scale: 1:200	Graphics File Created: 24-Feb-2010 09:55

OP System Version: 17C0-154

SHM_GUN	17C0-154	SAFE	17C0-154
UPCT-A	17C0-154		

Output DLIS Files

DEFAULT	PERFO_030LUP	FN:29	PRODUCER	24-Feb-2010 09:55
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2-1/8" Ph. Powerjets
Log Into Position

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: FLA A15

Output DLIS Files

DEFAULT	PERFO_028LUP	FN:27	PRODUCER	24-Feb-2010 09:51	3065.1 M	3057.6 M
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OP System Version: 17C0-154

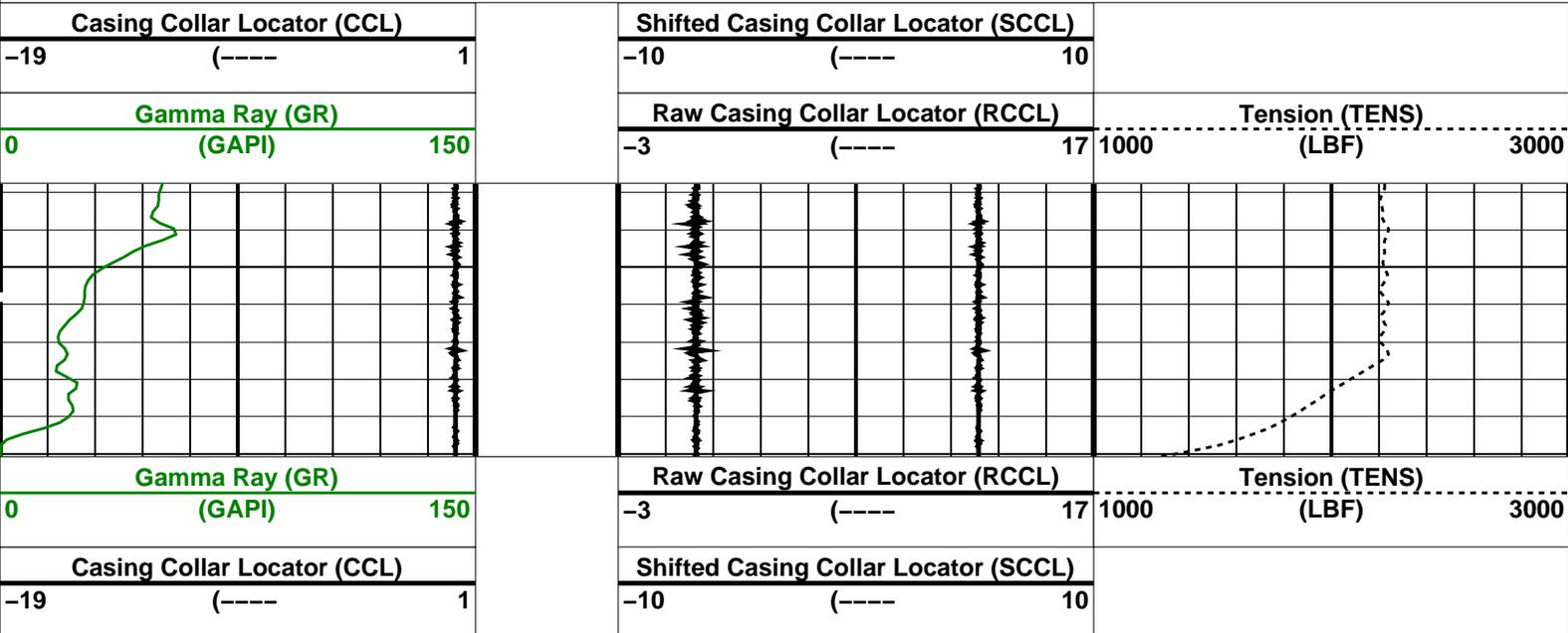
SHM_GUN 17C0-154
UPCT-A 17C0-154

SAFE

17C0-154

PIP SUMMARY

Time Mark Every 60 S



PIP SUMMARY

Time Mark Every 60 S

Format: CLLLog Vertical Scale: 1:200 Graphics File Created: 24-Feb-2010 09:51

OP System Version: 17C0-154

SHM_GUN 17C0-154
UPCT-A 17C0-154

SAFE

17C0-154

Output DLIS Files

DEFAULT PERFO_028LUP FN:27 PRODUCER 24-Feb-2010 09:51



2-1/8" Ph. Powerjets
Correlation Log

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: FLA A15

Output DLIS Files

DEFAULT PERFO_027LUP FN:26 PRODUCER 24-Feb-2010 09:36 3064.9 M 3013.1 M

OP System Version: 17C0-154

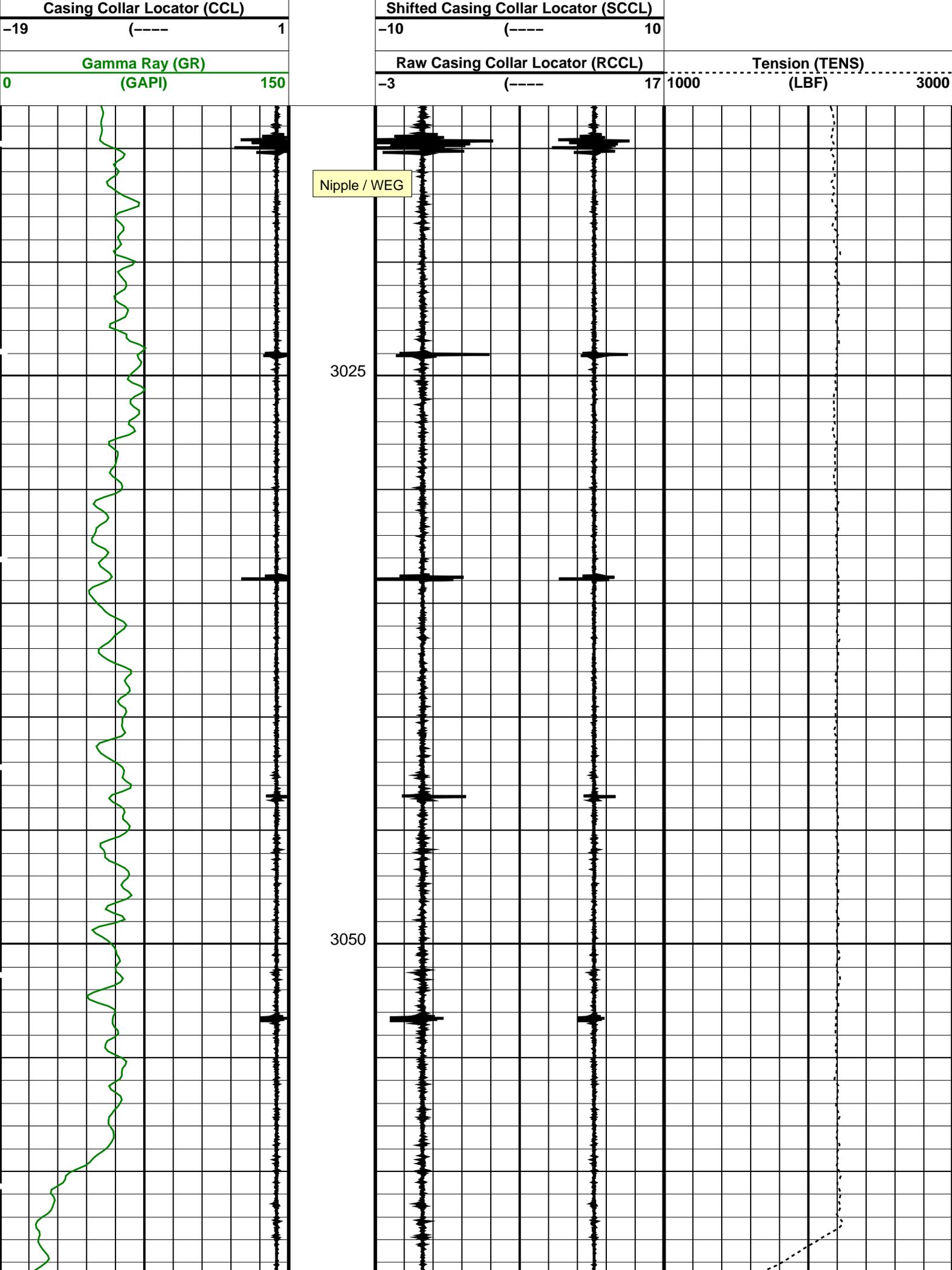
SHM_GUN 17C0-154
UPCT-A 17C0-154

SAFE

17C0-154

PIP SUMMARY

Time Mark Every 60 S



Gamma Ray (GR)		Raw Casing Collar Locator (RCCL)		Tension (TENS)	
0	(GAPI) 150	-3	(----) 17	1000	(LBF) 3000
Casing Collar Locator (CCL)		Shifted Casing Collar Locator (SCCL)			
-19	(----) 1	-10	(----) 10		

PIP SUMMARY

Time Mark Every 60 S

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 24-Feb-2010 09:36

OP System Version: 17C0-154

SHM_GUN	17C0-154	SAFE	17C0-154
UPCT-A	17C0-154		

Output DLIS Files

DEFAULT	PERFO_027LUP	FN:26	PRODUCER	24-Feb-2010 09:36
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Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **FLOUNDER A15**

Field: **FLOUNDER**

Rig: **Crane / Prod#4**

Country: **Australia**

2 1/8" Phased Powerjet
Perforation and MPBT Plug Setting
24-Feb-2010