

Company: Esso Australia Pty Ltd.

Well: FLA A6

Field: Flounder

Rig: Prod 3 / Flounder Country: Australia

MPBT
Cement Bailers
4-Sep-2007

Rig: Prod 3 / Flounder
Field: Flounder
Location: Bass Strait
Well: FLA A6
Company: Esso Australia Pty Ltd.

LOCATION			
Bass Strait		Elev.:	K.B. 34.2 m
Gippsland			G.L. -94 m
Basin			D.F. 34.2 m
Permanent Datum:	Mean Sea Level	Elev.:	34.2 m
Log Measured From:	Drill Floor	-34.2 m above Perm. Datum	
Drilling Measured From:	Drill Floor		
State: Victoria	Max. Well Deviation 64 deg	Longitude 148° 06' 15.1"E	Latitude 38° 18'45.24"S

Logging Date	4-Sep-2007		
Run Number	1		
Depth Driller	4220 m		
Schlumberger Depth	4111 m		
Bottom Log Interval	4102 m		
Top Log Interval	4101 m		
Casing Fluid Type	Produced Fluids		
Salinity			
Density	1 g/cm3		
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size	8.500 in		
From	4065 m		
To	4220 m		
Casing/Tubing Size	7.000 in		
Weight	26 lbm/ft		
Grade	N-80		
From	3786 m		
To	4146 m		
Maximum Recorded Temperatures	233 degF		
Logger On Bottom	4-Sep-2007	8:15	
Unit Number	93	AUSL	
Recorded By	C.Rowand, B.Donahoe		
Witnessed By	Mr M. Wilson/ Mr B. Davis		

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	64 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						

DEPTH SUMMARY LISTING

Date Created: 8-SEP-2007 19:47:48

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-B/A	Type:	2-32ZT
Serial Number:	797	Serial Number:	1721	Serial Number:	24016
Calibration Date:	11-May-2007	Calibration Date:	15-Aug-2007	Length:	5230.06 M
Calibrator Serial Number:	1	Calibrator Serial Number:	1173		
Calibration Cable Type:	2-32ZT	Calibration Gain:	0.89	Conveyance Method:	Wireline
Wheel Correction 1:	-3	Calibration Offset:	-731.00	Rig Type:	Offshore_Fixed
Wheel Correction 2:	-1				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	RST Sigma & IC Log
Reference Log Run Number:	1
Reference Log Date:	1-Sep-2007













Depth Control Remarks

1. Log referenced to Solar Composite Correlation Log (No date) provided by Esso.
2. Log correlated to RST Sigma & IC Log of 1-Sep-2007
- 3.
- 4.
- 5.
6. Tool zeroed in the Toolcatcher at -7 M.

DISCLAIMER

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OTHER SERVICES1 OS1: RST OS2: 2–1/8" Phased OS3: Powerjet OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Referenced to Esso Solar Composite Log provided by client.	
Correlated to RST–C Sigma Log of 1–Sep–2007	
Run Dummy Plug as drift run to 4107m MDKB.	
Run MPBT and set plug at 4102m (Top element) MDKB.	
MPBT correlated over WEG due to overpull during correlation at 4094m.	
Run 3 Bailers, 1 Water and 2 Cement.	
Dumping 1.30m of Cement.	

Damping Room or Cement					
Schlumberger Crew:					
Gary Martin, Peter Lawrence, Craig Harris					
RUN 1 SERVICE ORDER #: PROGRAM VERSION: 15C0-309 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
MPBM-BA 81			WITM (SHM)		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
MH-22 MH-22		14.21	MH-22 MH-22		20.31
EQF-46 EQF-46		13.73	EQF-46 EQF-46 3001		19.83
EQF-46 EQF-46 3001		11.90	EQF-46 EQF-46		18.00
CCL-L CCL-L 7203	 CCL Tachomete Cable Cur Head Volt Tension	10.07 TOOL ZERO	EQF-39 EQF-39 3004		16.17
MPSU-CA MPSU-CA 1102		9.61	EQF-39 EQF-39 3005		14.95
			CCL-L CCL-L 9851		13.72 Tension CCL
			SHM_GUN GUN		13.26

MPEX-DA H405320
MPEX-DA

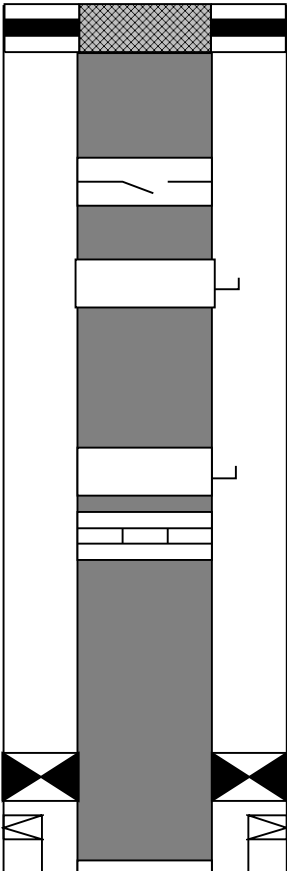
3.20

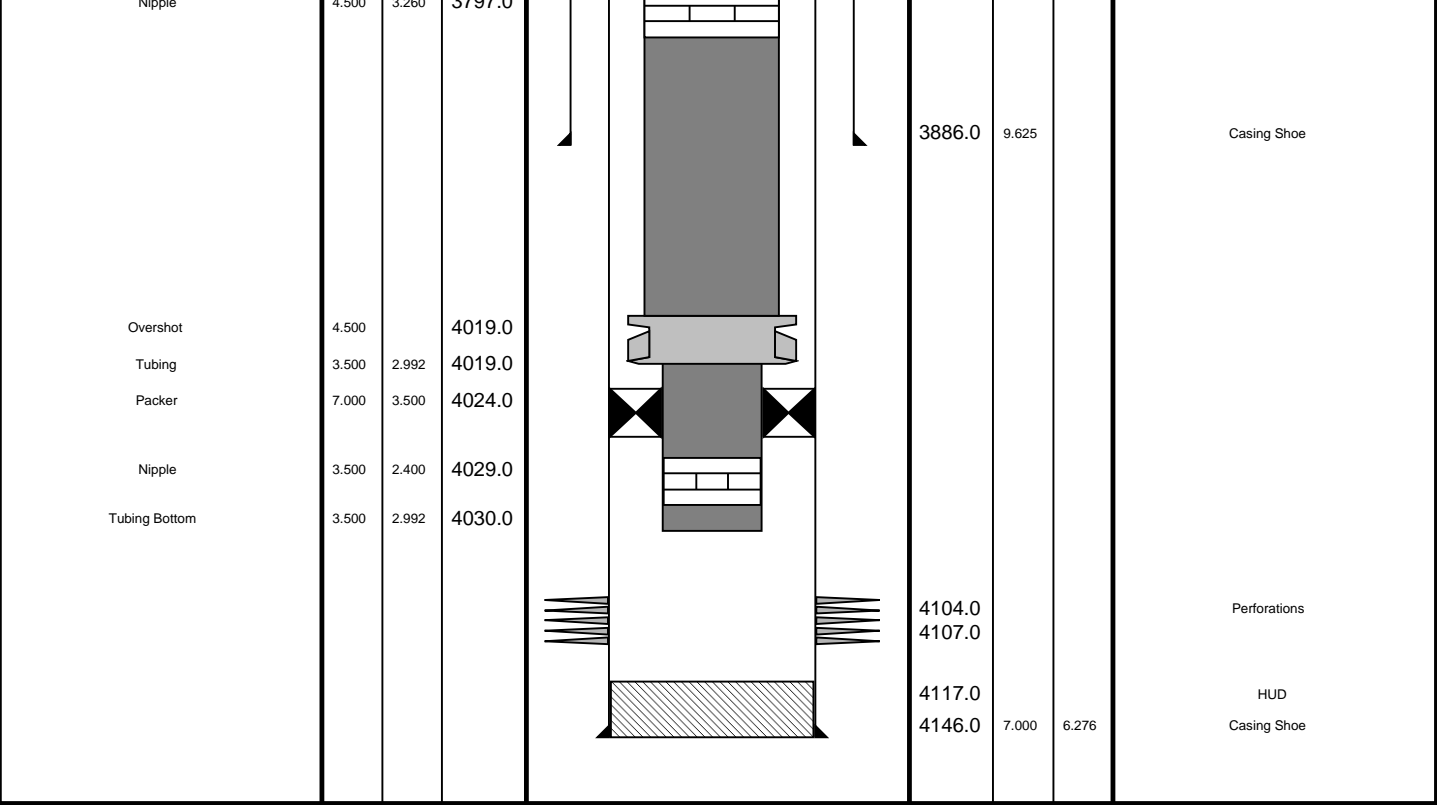
TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	9.625	4.500	12.8		3786.0	9.625		Casing String
Tubing	4.500	3.958						
SSSV	4.500	3.813	457.0					
Side Pocket Mandrel	4.500	3.863	969.0					
Side Pocket Mandrel	4.500	3.863	1874.0					
Nipple	4.500	3.813	1890.0					
Packer	9.625	4.500	3777.0					
Nipple	4.500	3.813	3792.0					
						7.000	6.276	Casing String
						9.625	7.000	Liner Hanger



Bailer Run 3

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
Cement Bailer#2	Used	4101.0	4101.0	Wed Sep 05 09:14:16 2007

OP System Version: 15C0-309

MCM

SHM_GUN

SRPC-3357-Q2_2007

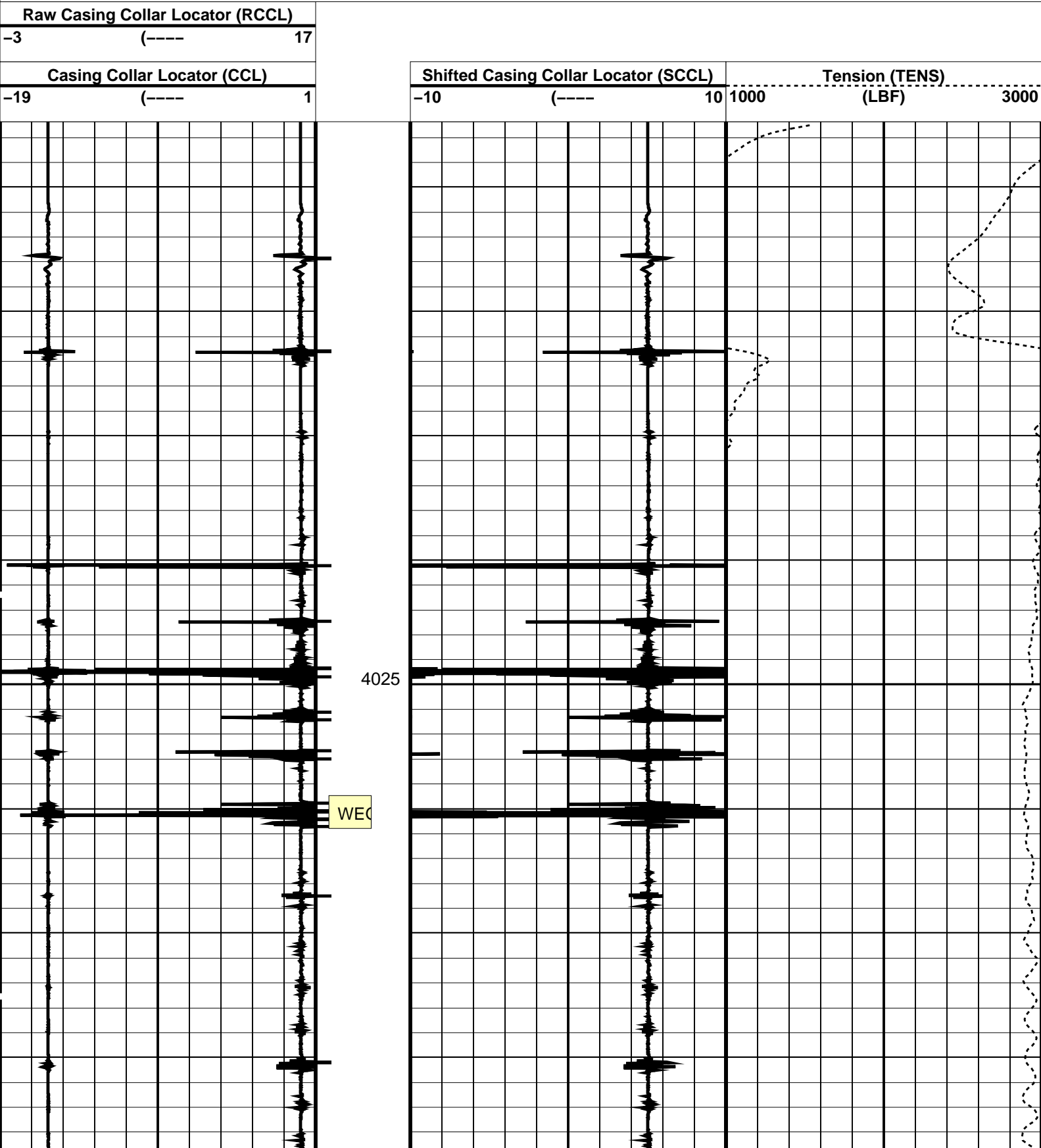
CCL-L

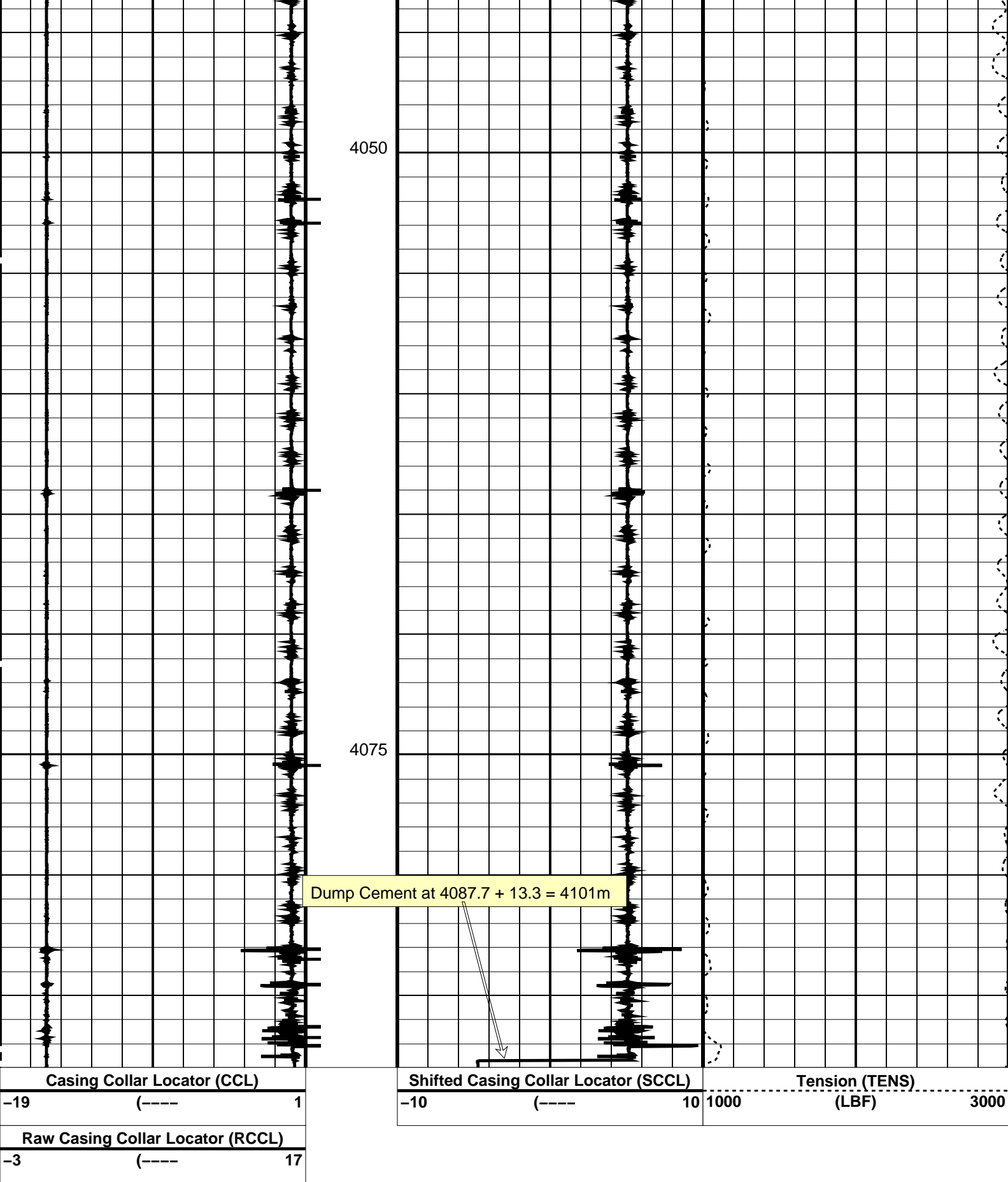
15C0-309

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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CCLD	CCL-L: Casing Collar Locator	CCL reset delay	12	IN
CCLT		CCL Detection Level	0.9	V
DO	System and Miscellaneous	Depth Offset for Playback	0.0	M
PP		Playback Processing	NORMAL	

Format: CCLLog

Vertical Scale: 1:200

Graphics File Created: 05-Sep-2007 10:08

OP System Version: 15C0-309				
MCM				
SHM_GUN	SRPC-3357-Q2_2007	CCL-L	15C0-309	

Input DLIS Files					
DEFAULT	Flip_PERFO_102LUP	PRODUCER	05-Sep-2007 10:07	4088.1 M	4001.9 M
Output DLIS Files					
DEFAULT	PERFO_103PUP	FN:133	PRODUCER	05-Sep-2007 10:08	



Bailer Run 2

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
Gun 1	Used	4083.5	4083.5	Mon Sep 03 11:13:34 2007

Company: Esso Australia Pty Ltd.

Well: FLA A25a

Input DLIS Files					
DEFAULT	Flip_PERFO_094LUP	PRODUCER	05-Sep-2007 09:48	4088.4 M	4005.2 M
Output DLIS Files					
DEFAULT	PERFO_094PUP	FN:132	PRODUCER	05-Sep-2007 09:53	4088.4 M 4005.7 M

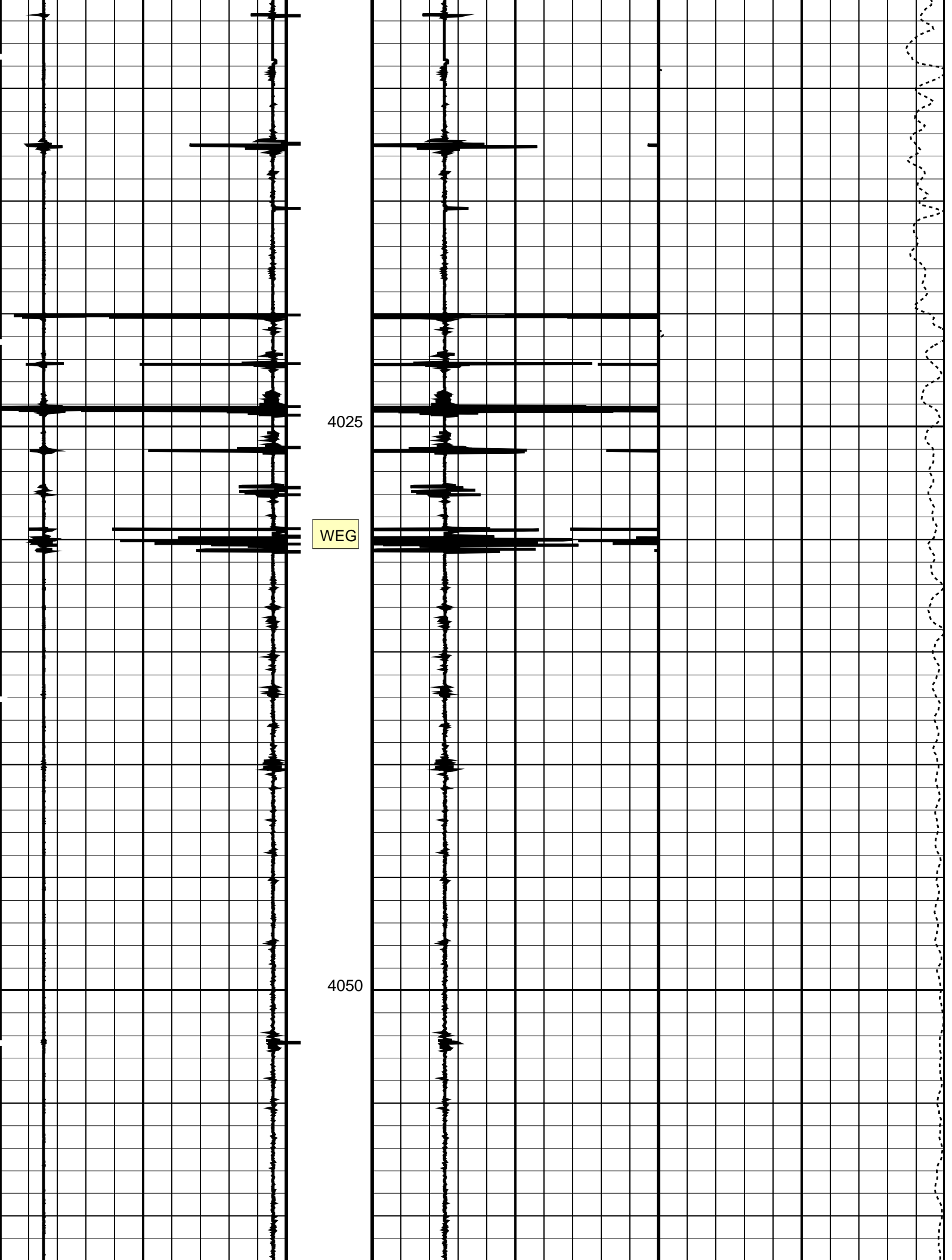
OP System Version: 15C0-309			
MCM			
SHM_GUN	SRPC-3357-Q2_2007	CCL-L	15C0-309

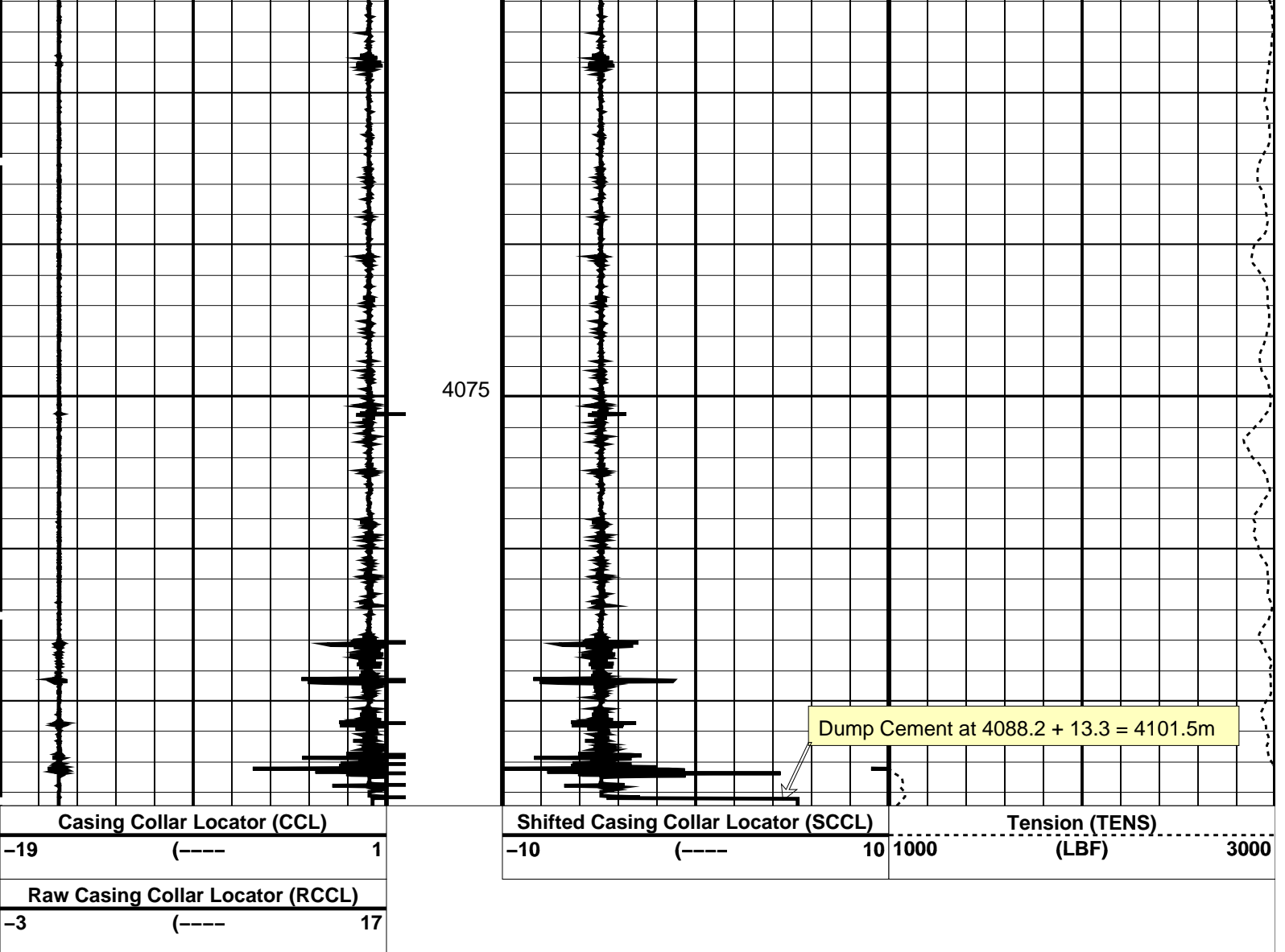
PIP SUMMARY

Time Mark Every 60 S

Casing Collars

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





PIP SUMMARY

← Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
CCLD	CCL-L: Casing Collar Locator	12	IN
CCLT	CCL reset delay	0.9	V
	CCL Detection Level		
DO	System and Miscellaneous	0.0	M
PP	Depth Offset for Playback		
	Playback Processing	NORMAL	

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 05-Sep-2007 09:53

OP System Version: 15C0-309

MCM

SHM_GUN SRPC-3357-Q2_2007 CCL-L 15C0-309

Input DLIS Files

DEFAULT Flip_PERFO_094LUP PRODUCER 05-Sep-2007 09:48 4088.4 M 4005.2 M

Output DLIS Files

DEFAULT PERFO_094PUP FN:132 PRODUCER 05-Sep-2007 09:53

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
Water Bailer	Used	4102.0	4102.0	Tue Sep 04 13:55:51 2007

Company: Esso Australia Pty Ltd.

Well: FLA A25a

Output DLIS Files

DEFAULT	PERFO_086LUP	FN:113	PRODUCER	04-Sep-2007 13:51	4093.8 M	3996.1 M
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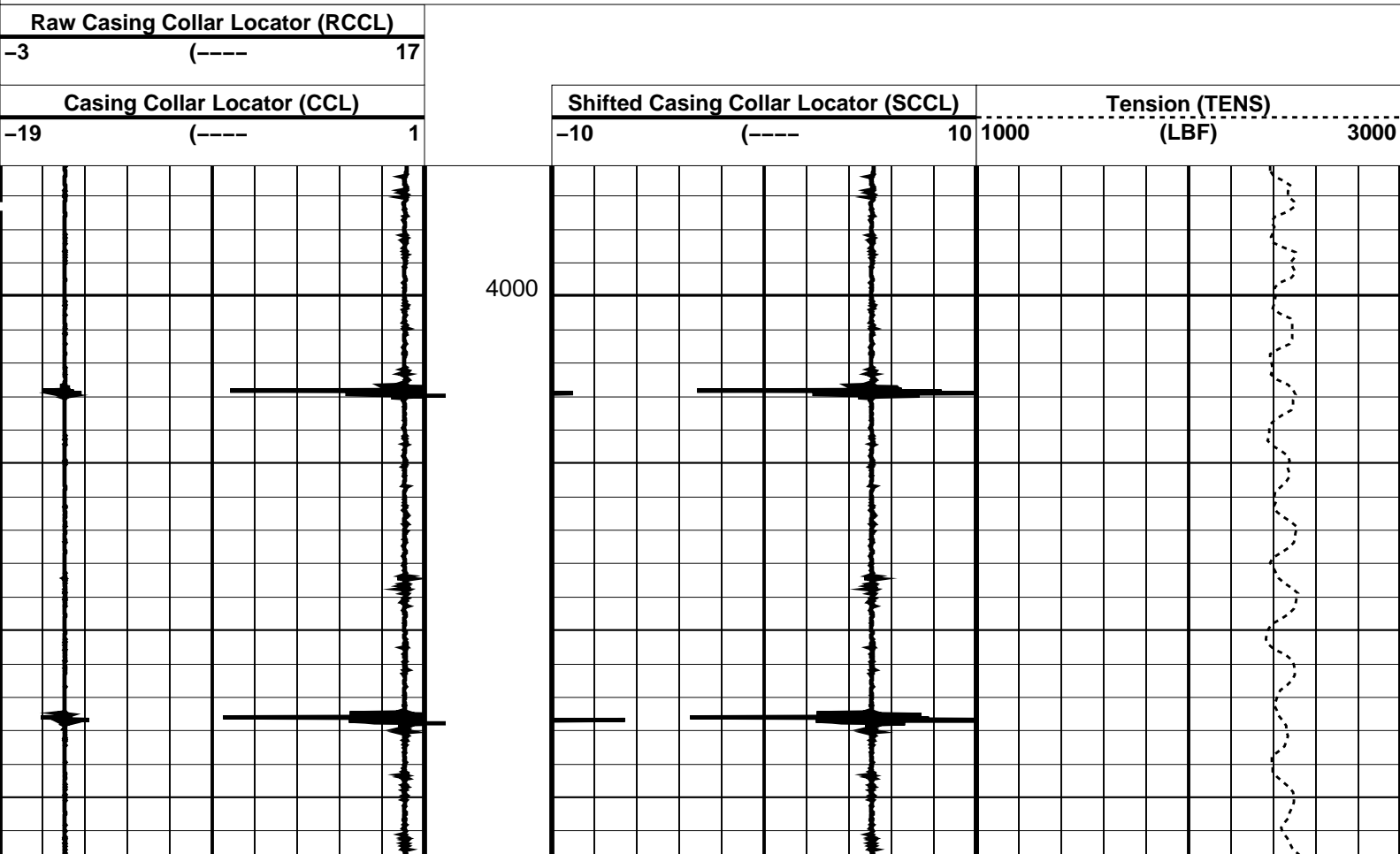
OP System Version: 15C0-309
MCM

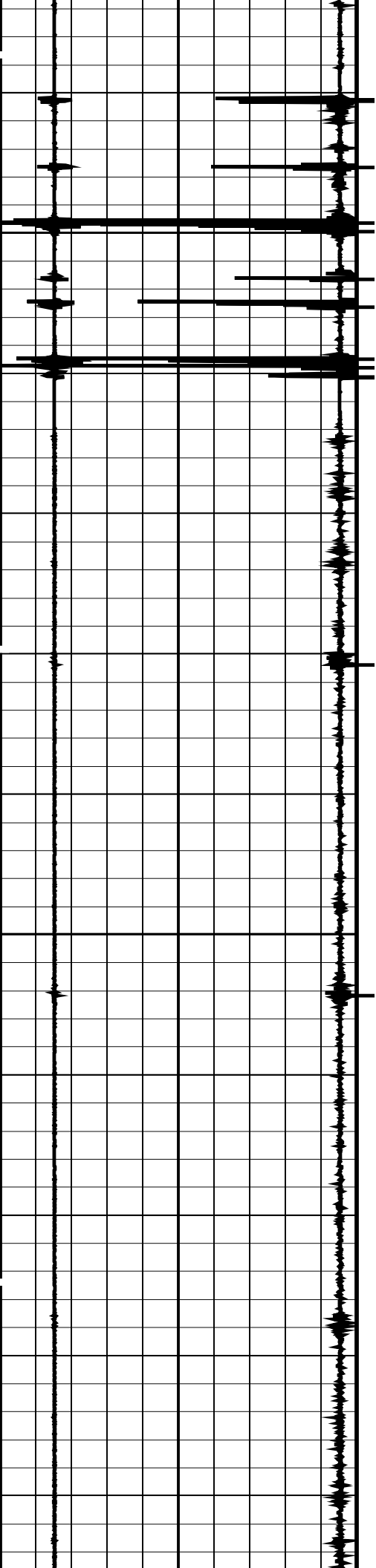
SHM_GUN	SRPC-3357-Q2_2007	CCL-L	15C0-309
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PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S

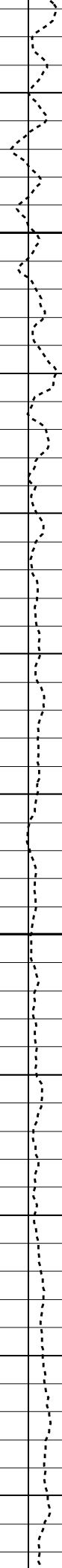
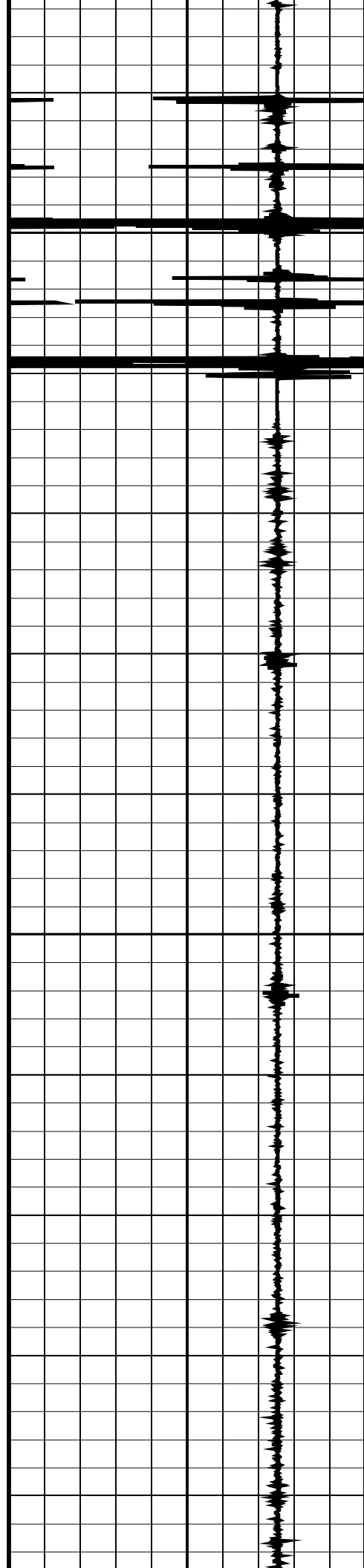


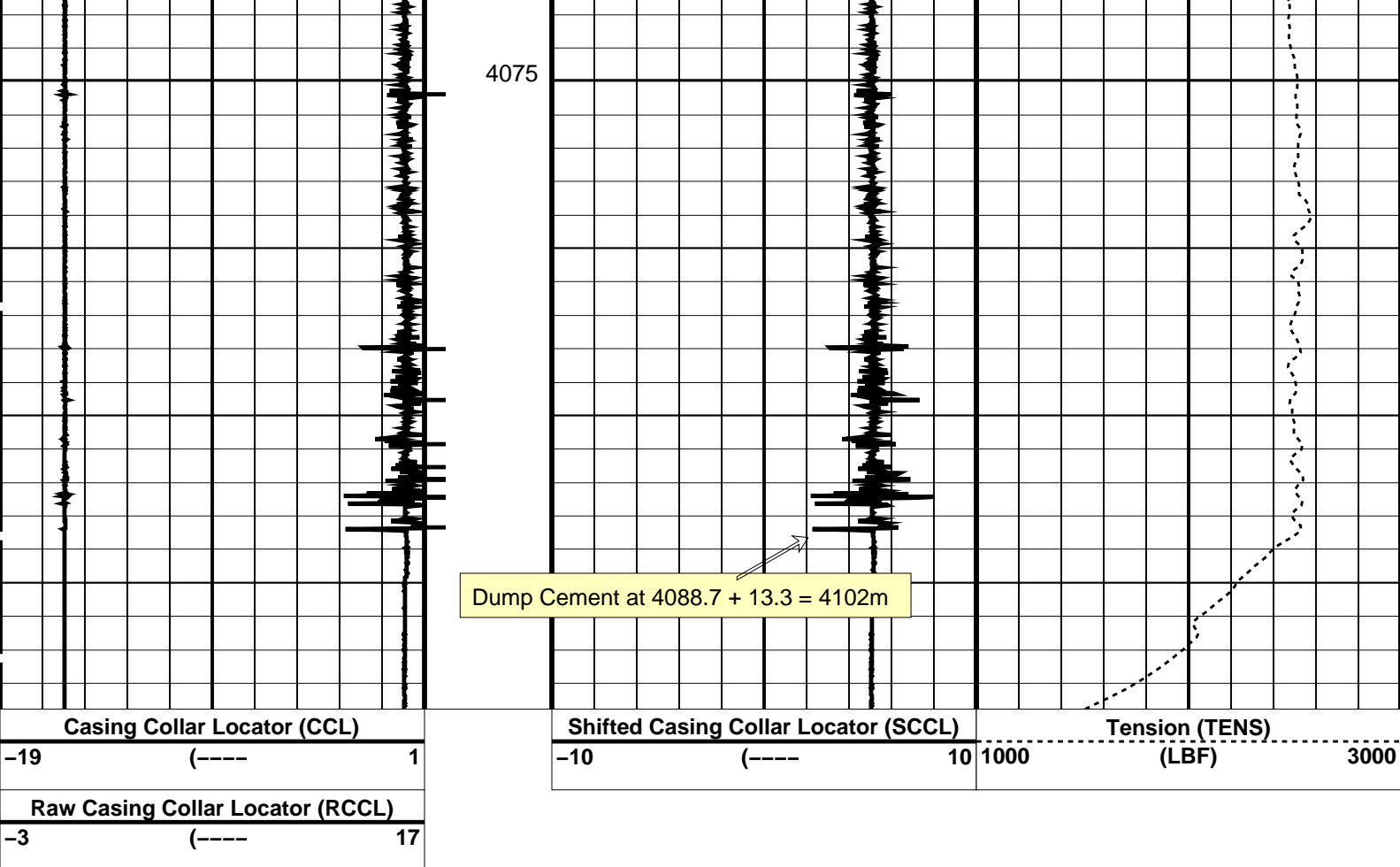


WEC

4025

4050





PIP SUMMARY

← Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.9 V
	CCL Detection Level	

Format: CCLLog Vertical Scale: 1:200 Graphics File Created: 04-Sep-2007 13:51

OP System Version: 15C0-309
MCM

SHM_GUN SRPC-3357-Q2_2007 CCL-L 15C0-309

Output DLIS Files

DEFAULT PERFO_086LUP FN:113 PRODUCER 04-Sep-2007 13:51

Schlumberger

Bailer Run 1 Tag Plug

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_084LUP FN:111 PRODUCER 04-Sep-2007 13:45 4095.3 M 4062.5 M

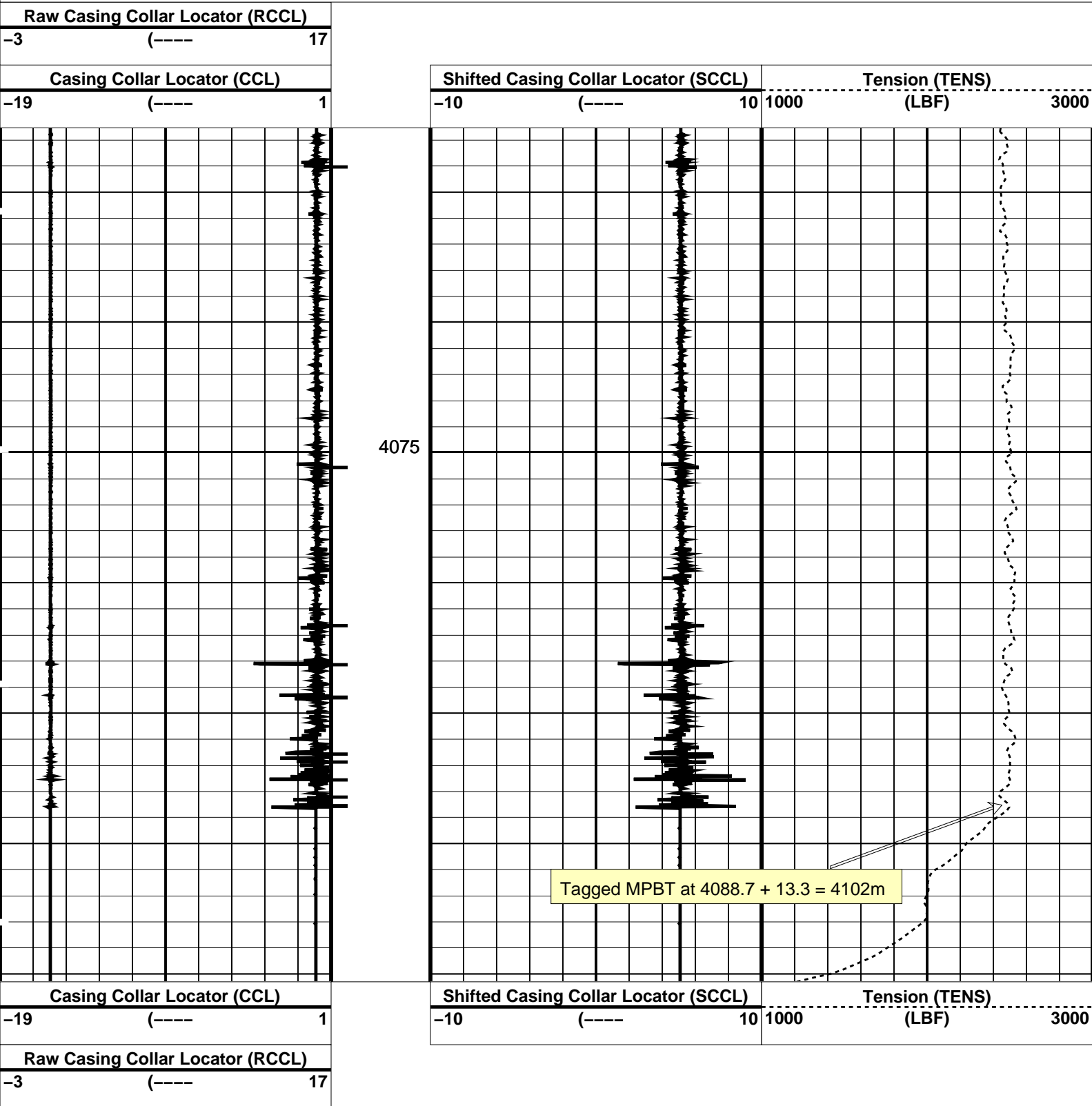
OP System Version: 15C0-309
MCM

SHM_GUN SRPC-3357-Q2_2007 CCL-L 15C0-309

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S




PIP SUMMARY

└─ Casing Collars

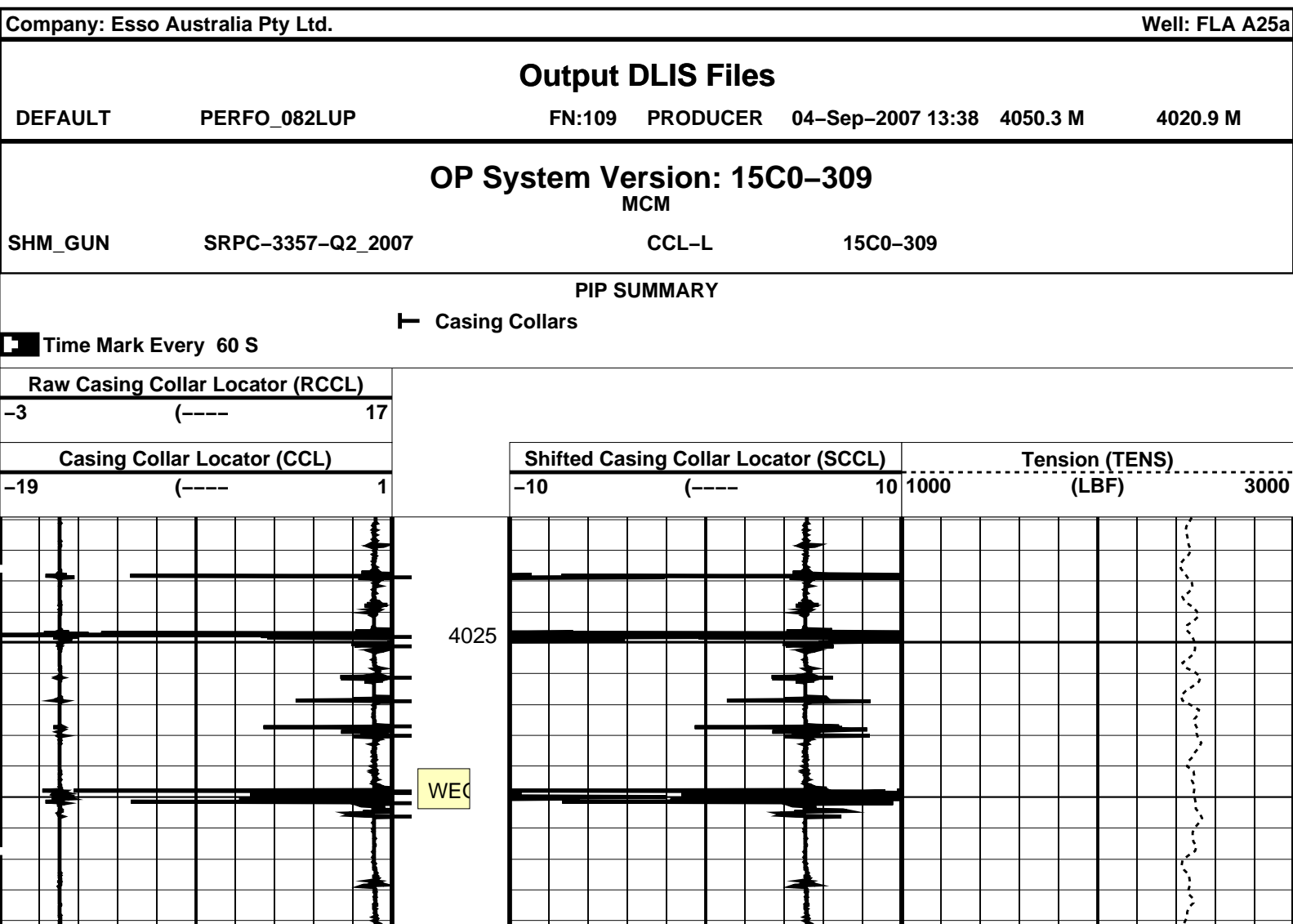
Time Mark Every 60 S

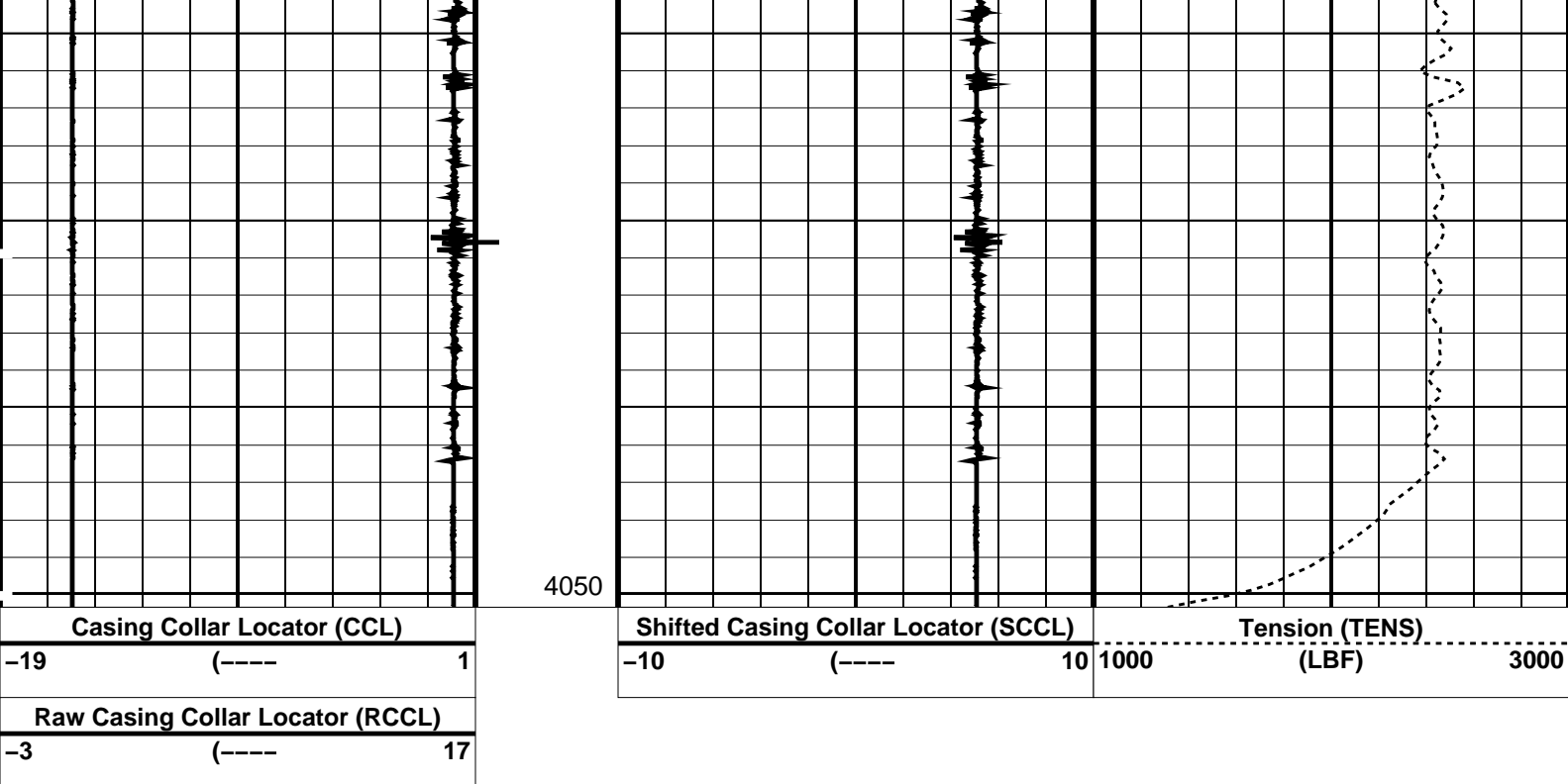
Parameters				
DLIS Name		Description	Value	
CCL-L: Casing Collar Locator				
CCLD		CCL reset delay	12	IN
CCLT		CCL Detection Level	0.9	V
Format: CCLLog		Vertical Scale: 1:200	Graphics File Created: 04-Sep-2007 13:45	
OP System Version: 15C0-309				
MCM				
SHM_GUN	SRPC-3357-Q2_2007	CCL-L	15C0-309	
Output DLIS Files				
DEFAULT	PERFO_084LUP	FN:111	PRODUCER	04-Sep-2007 13:45



Bailer Run 1 Correlation to WEG

MAXIS Field Log





PIP SUMMARY

Time Mark Every 60 S

Casing Collars

Parameters		
DLIS Name	Description	Value
CCL-L: Casing Collar Locator		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.9 V
Format: CCLLog Vertical Scale: 1:200		Graphics File Created: 04-Sep-2007 13:38

OP System Version: 15C0-309			
MCM			
SHM_GUN	SRPC-3357-Q2_2007	CCL-L	15C0-309

Output DLIS Files			
DEFAULT	PERFO_082LUP	FN:109 PRODUCER	04-Sep-2007 13:38



MPBT Log Out Position

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: FLA A6

Input DLIS Files					
DEFAULT	CCL_072LUP	FN:98	PRODUCER	04-Sep-2007 09:23	4095.0 M 3999.1 M
Output DLIS Files					

OP System Version: 15C0-309

MCM

MPEX-DA

SRPC-3357-Q2_2007

MPSU-CA

SRPC-3357-Q2_2007

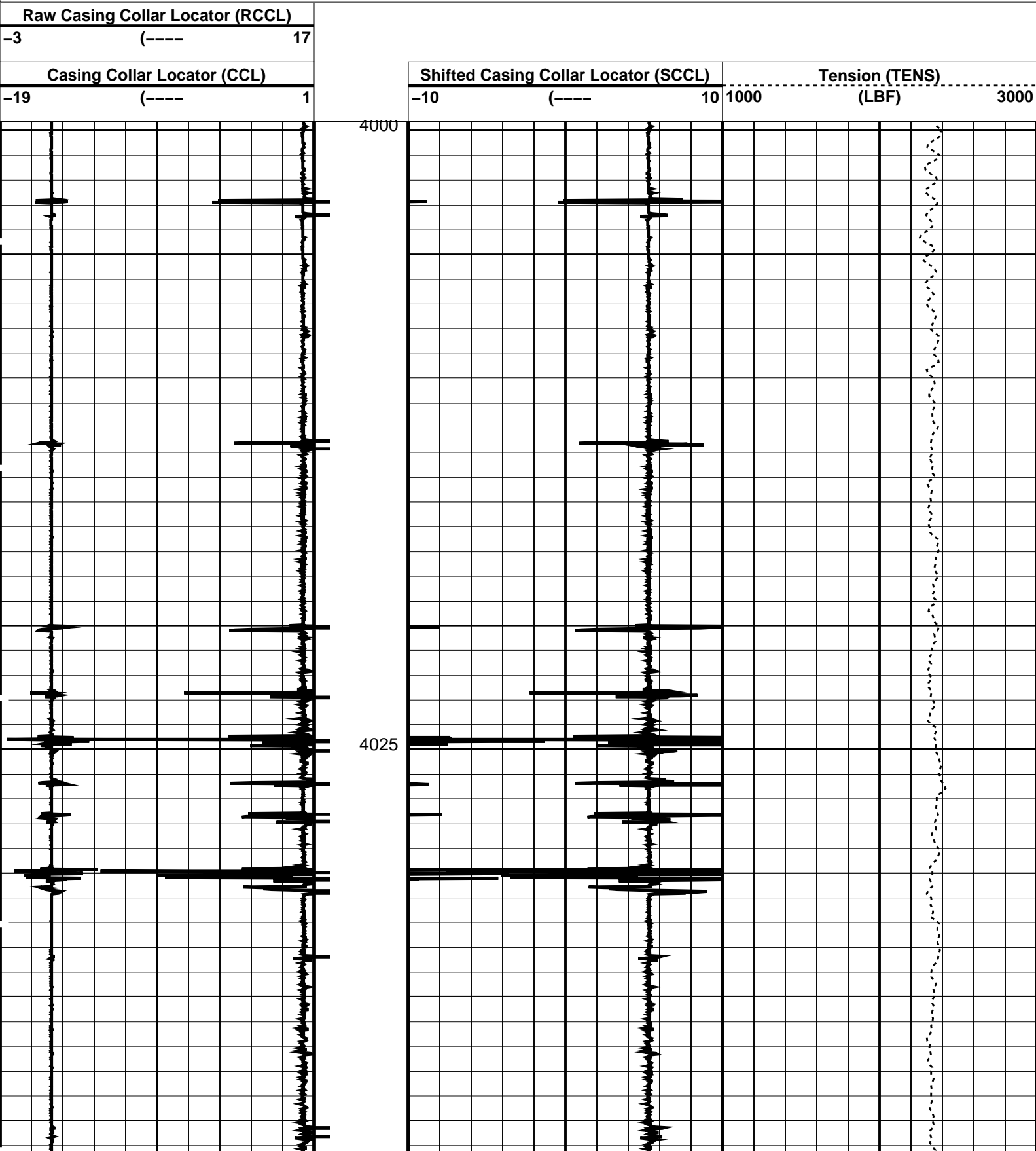
CCL-L

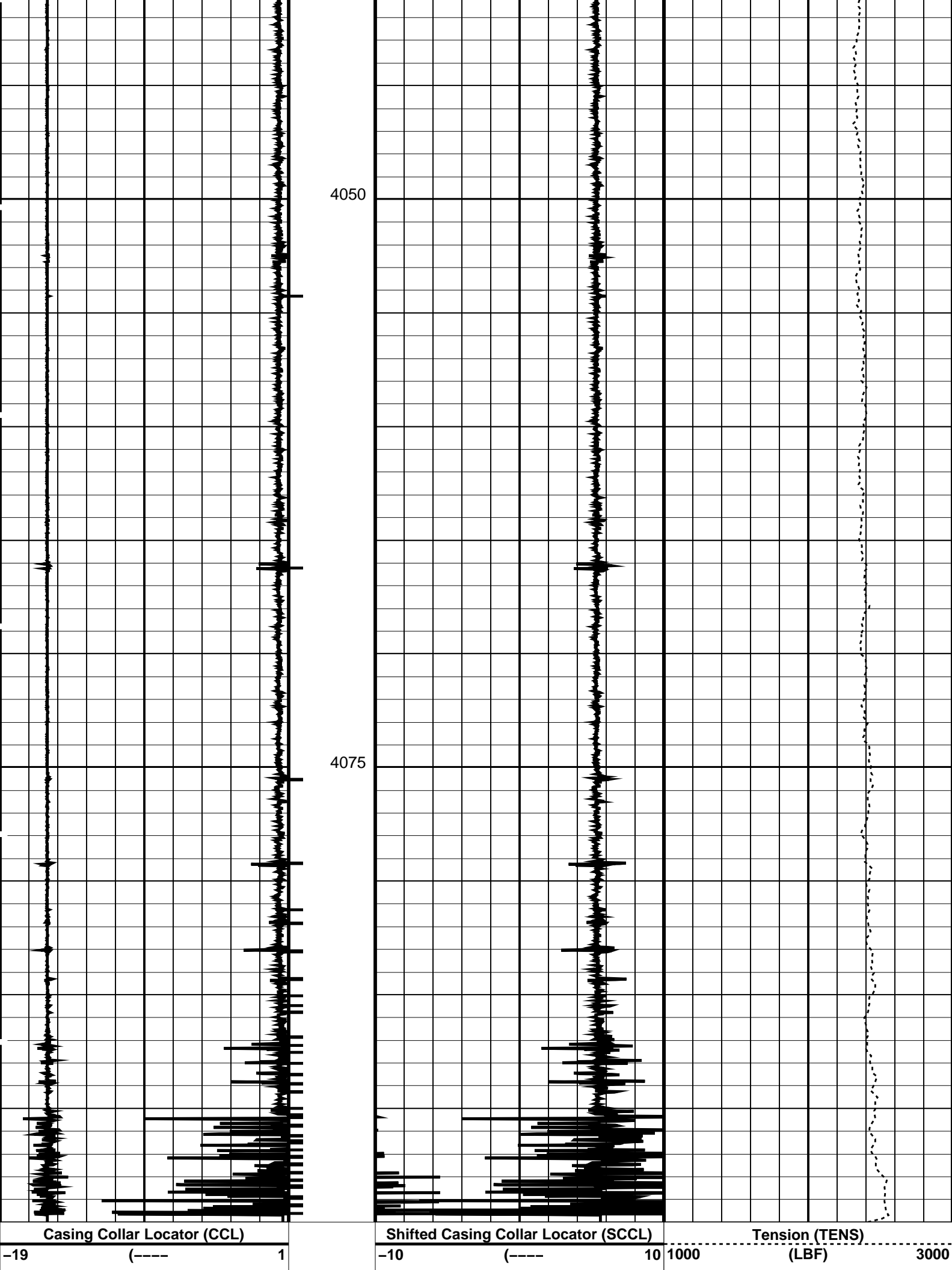
15C0-309

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





Raw Casing Collar Locator (RCCL)	
-3	17


PIP SUMMARY	
Casing Collars	
Time Mark Every 60 S	

Parameters		
DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.9 V
	CCL Detection Level	
DO	System and Miscellaneous	0.0 M
PP	Depth Offset for Playback	
	Playback Processing	NORMAL

Format: CCLLog	Vertical Scale: 1:200	Graphics File Created: 04-Sep-2007 09:40
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OP System Version: 15C0-309			
MCM			
MPEX-DA	SRPC-3357-Q2_2007	MPSU-CA	SRPC-3357-Q2_2007
CCL-L	15C0-309		

Input DLIS Files					
DEFAULT	CCL_072LUP	FN:98	PRODUCER	04-Sep-2007 09:23	4095.0 M 3999.1 M
Output DLIS Files					
DEFAULT	CCL_072PUP	FN:99	PRODUCER	04-Sep-2007 09:40	



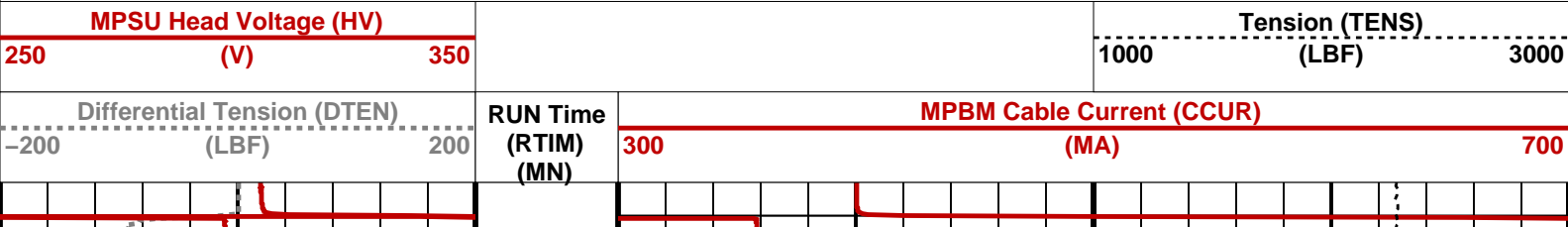
MPBT Setting Pass

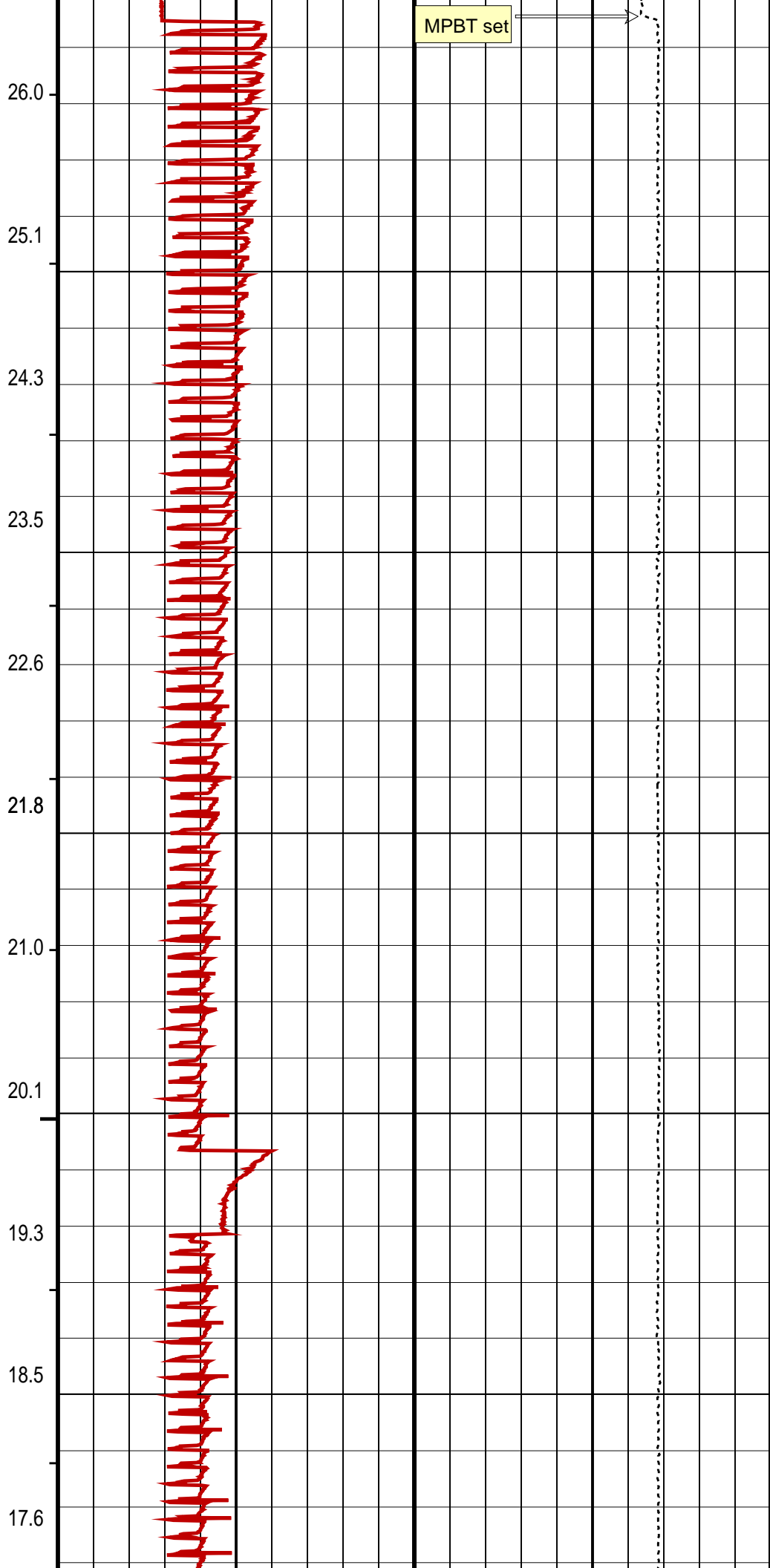
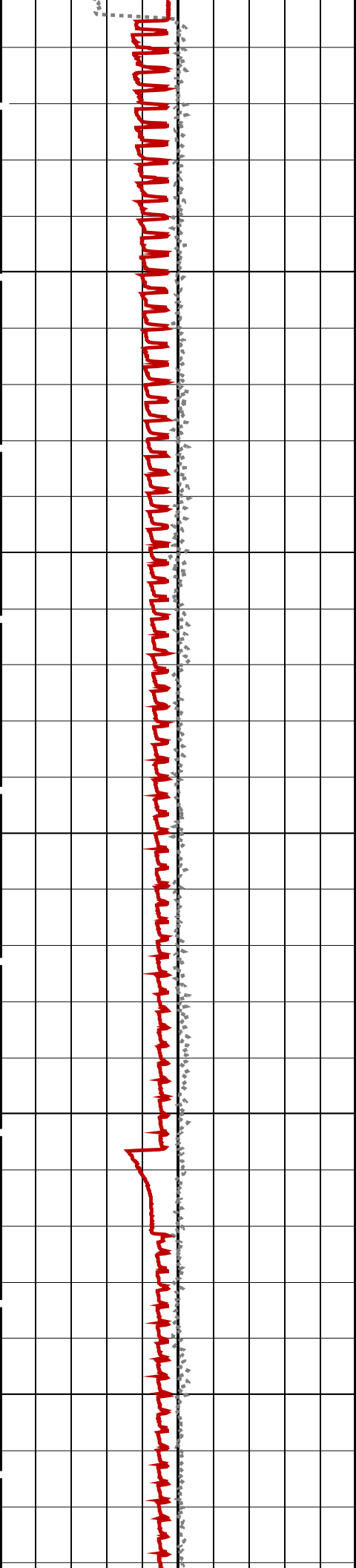
MAXIS Field Log

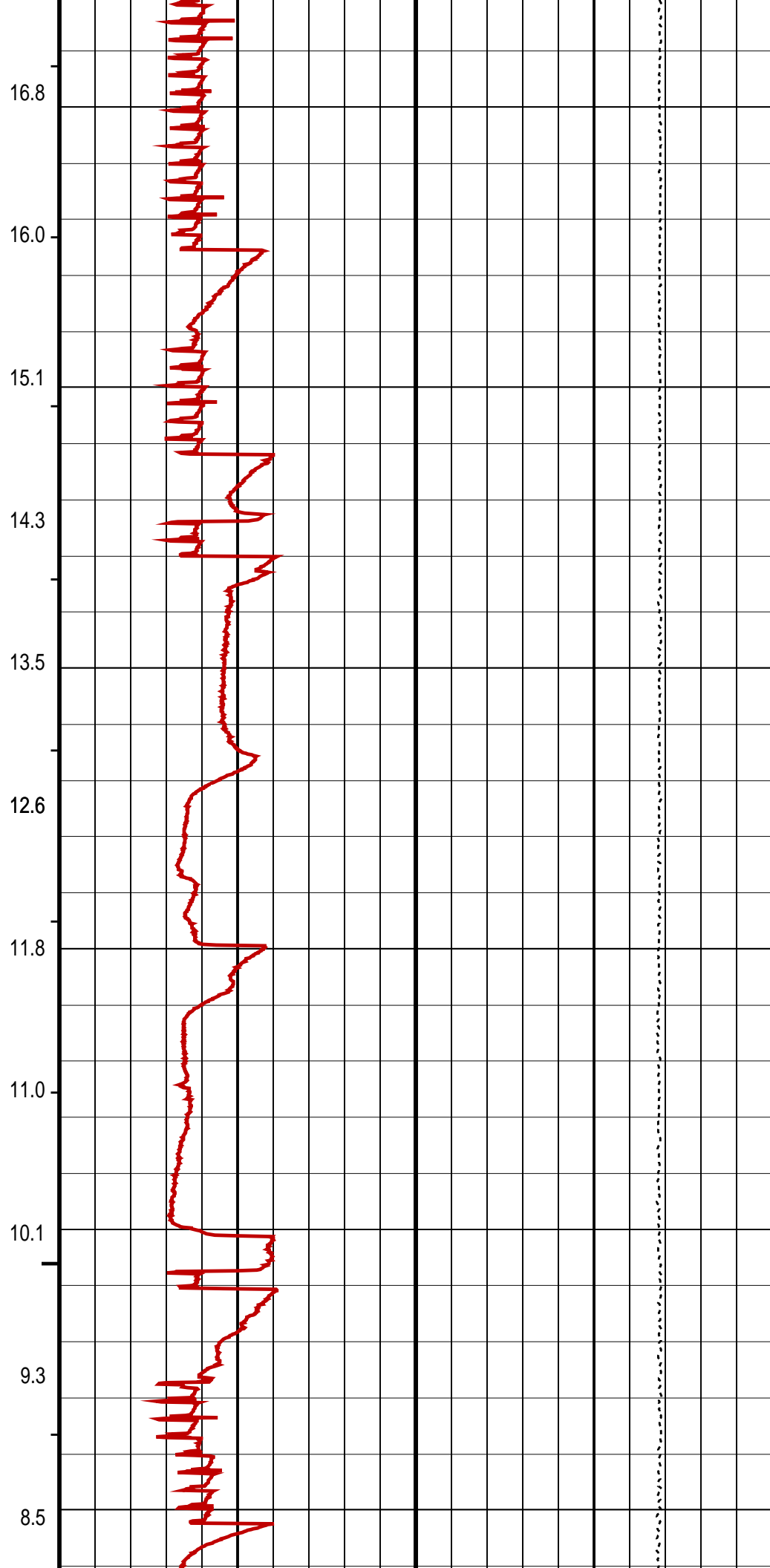
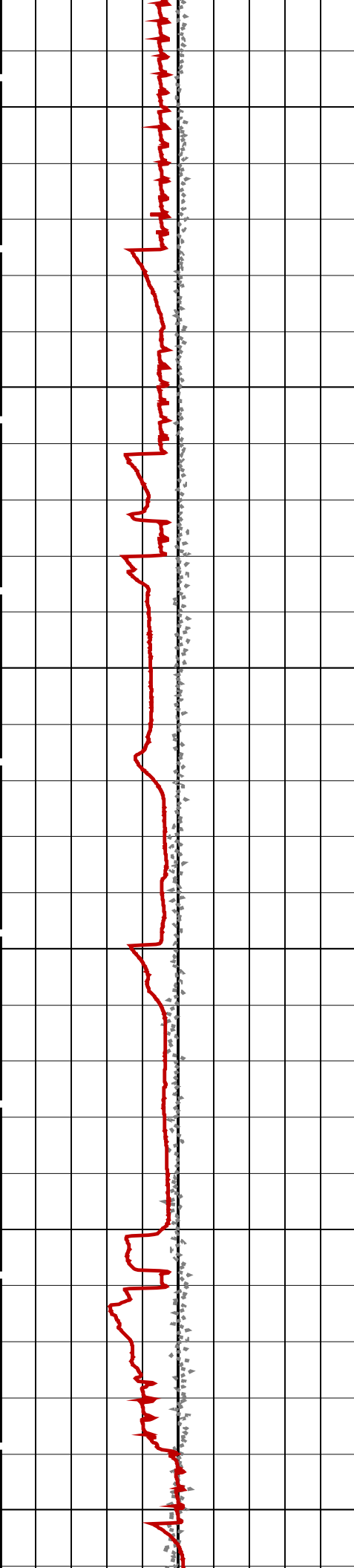
Company: Esso Australia Pty Ltd.	Well: FLA A6
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Output DLIS Files					
DEFAULT	CCL_071LUP	FN:97	PRODUCER	04-Sep-2007 08:48	12192.0 M 11772.7 M
OP System Version: 15C0-309					
MCM					
MPEX-DA	SRPC-3357-Q2_2007	MPSU-CA	SRPC-3357-Q2_2007		
CCL-L	15C0-309				

PIP SUMMARY	
MPSU Run Time Every 1 MN	
MPSU Run Time Every 10 MN	
Time Mark Every 60 S	










-200	(LBF)	200	(RTIM)	300	(MA)	700
MPSU Head Voltage (HV)			Tension (TENS)			
250	(V)	350			1000	3000
					(LBF)	

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-CA: MECHANICAL PLUGBACK SETTING UNIT		
IPUMP	Intensifier Pump	TRUE
Format: MPBT_1	Vertical Scale: 1:500	Graphics File Created: 04-Sep-2007 08:48

OP System Version: 15C0-309			
MCM			
MPEX-DA	SRPC-3357-Q2_2007	MPSU-CA	SRPC-3357-Q2_2007
CCL-L	15C0-309		

Output DLIS Files					
DEFAULT	CCL_071LUP	FN:97	PRODUCER	04-Sep-2007 08:48	



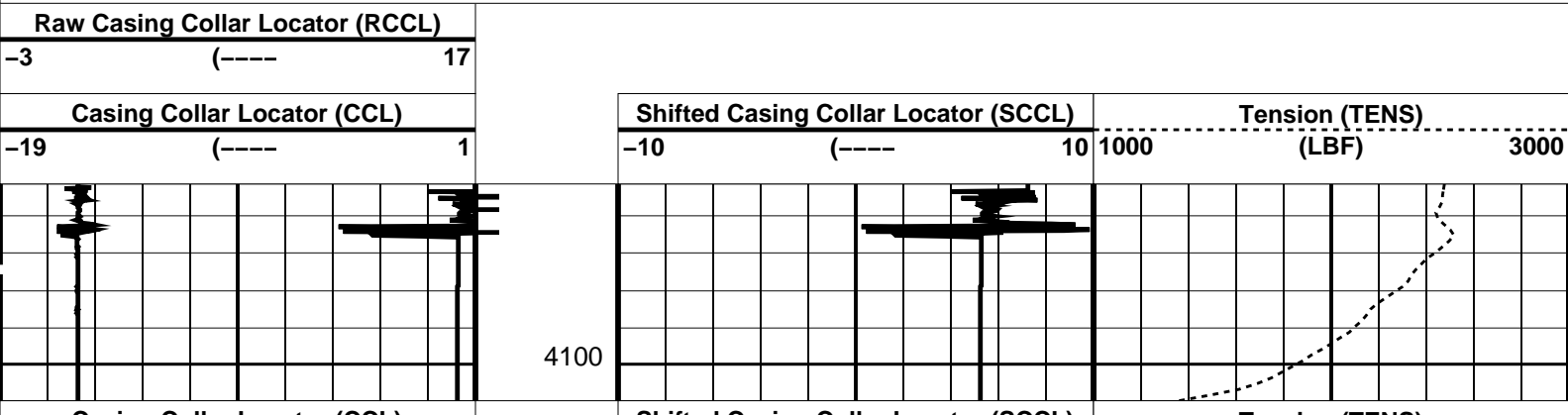
MPBT Log In Position

MAXIS Field Log

Company: Esso Australia Pty Ltd.	Well: FLA A6
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Output DLIS Files						
DEFAULT	CCL_070LUP	FN:96	PRODUCER	04-Sep-2007 08:45	4100.9 M	4095.0 M
OP System Version: 15C0-309						
MCM						
MPEX-DA	SRPC-3357-Q2_2007		MPSU-CA	SRPC-3357-Q2_2007		
CCL-L	15C0-309					

PIP SUMMARY					
Casing Collars					
Time Mark Every 60 S					



Casing Collar Locator (CCL)	Shifted Casing Collar Locator (SCCL)	Tension (TENS)	
-19 (----) 1	-10 (----) 10	1000 (LBF)	3000
Raw Casing Collar Locator (RCCL)			
-3 (----) 17			

PIP SUMMARY			
Casing Collars			
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	0.9	V

Format: CCLLog	Vertical Scale: 1:200	Graphics File Created: 04-Sep-2007 08:45
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OP System Version: 15C0-309			
MCM			
MPEX-DA	SRPC-3357-Q2_2007	MPSU-CA	SRPC-3357-Q2_2007
CCL-L	15C0-309		

Output DLIS Files			
DEFAULT	CCL_070LUP	FN:96	PRODUCER 04-Sep-2007 08:45

Schlumberger

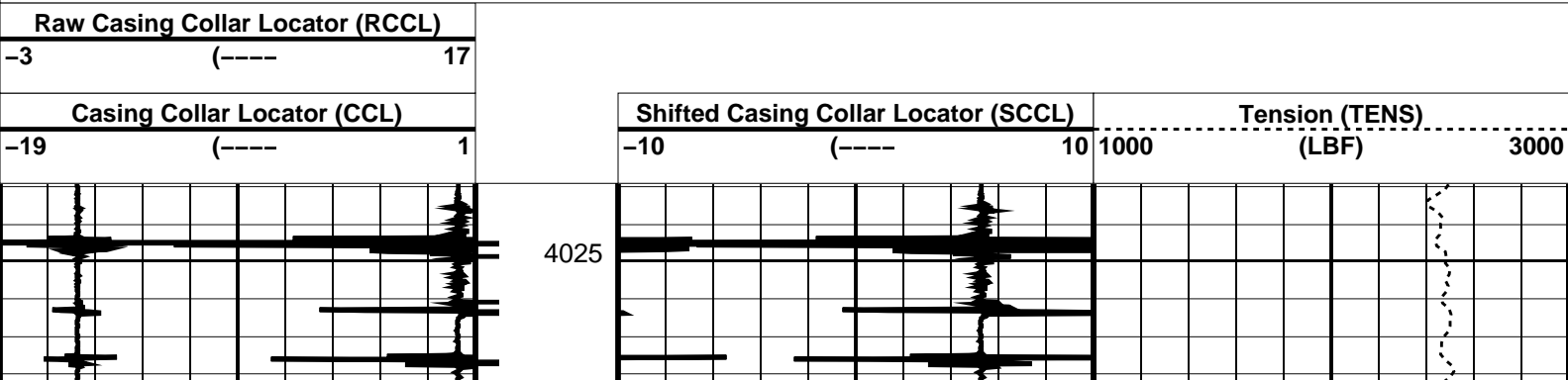
MPBT Correlation

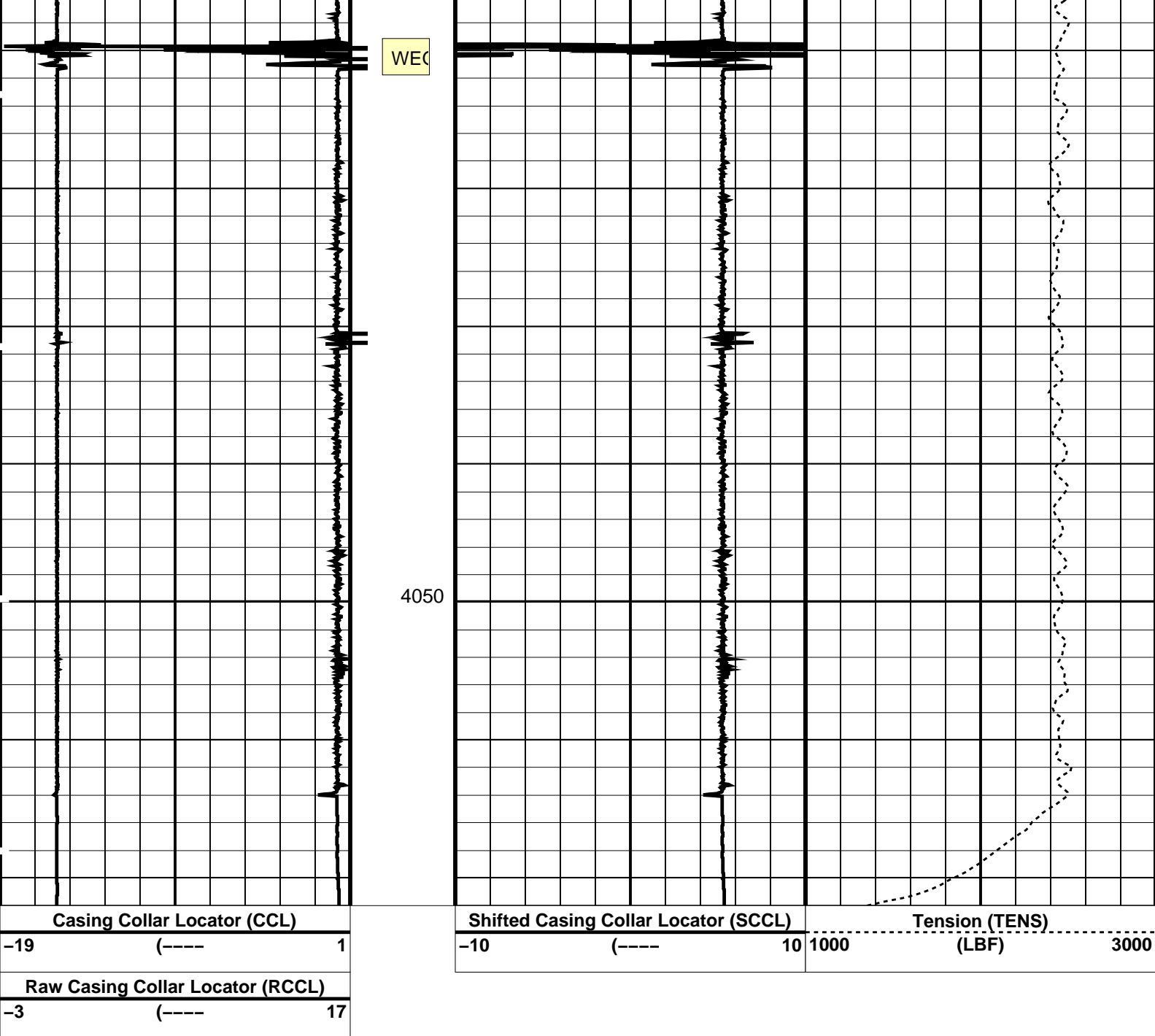
MAXIS Field Log

Company: Esso Australia Pty Ltd.	Well: FLA A6
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Output DLIS Files			
DEFAULT	CCL_065LUP	FN:91	PRODUCER 04-Sep-2007 08:28 4061.0 M 4022.9 M
OP System Version: 15C0-309			
MCM			
MPEX-DA	SRPC-3357-Q2_2007	MPSU-CA	SRPC-3357-Q2_2007
CCL-L	15C0-309		

PIP SUMMARY			
Casing Collars			
Time Mark Every 60 S			





PIP SUMMARY

← Casing Collars

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	0.9 V

Format: CCLLog Vertical Scale: 1:200

Graphics File Created: 04-Sep-2007 08:28

OP System Version: 15C0-309
MCM

MPEX-DA SRPC-3357-Q2_2007 MPSU-CA SRPC-3357-Q2_2007
CCL-L 15C0-309

Output DLIS Files

DEFAULT CCL_065LUP FN:91 PRODUCER 04-Sep-2007 08:28

Company: Esso Australia Pty Ltd.

Well: FLA A6

Input DLIS Files

DEFAULT	PERFO_058LUP	FN:84	PRODUCER	03-Sep-2007 14:25	4106.3 M	4003.9 M
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Output DLIS Files

DEFAULT	PERFO_058PUP	FN:26	PRODUCER	03-Sep-2007 15:54	4111.4 M	4010.4 M
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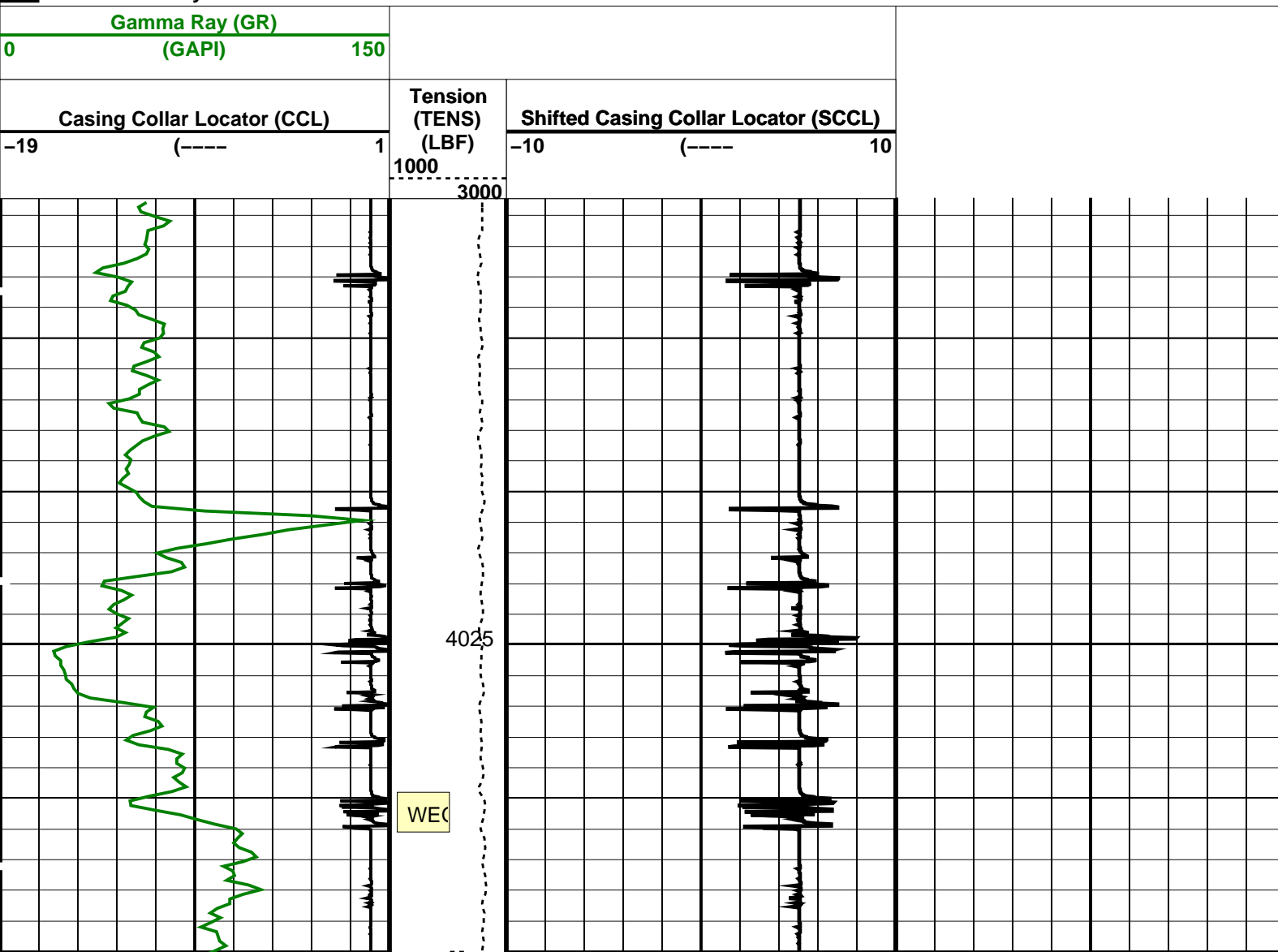
OP System Version: 15C0-309

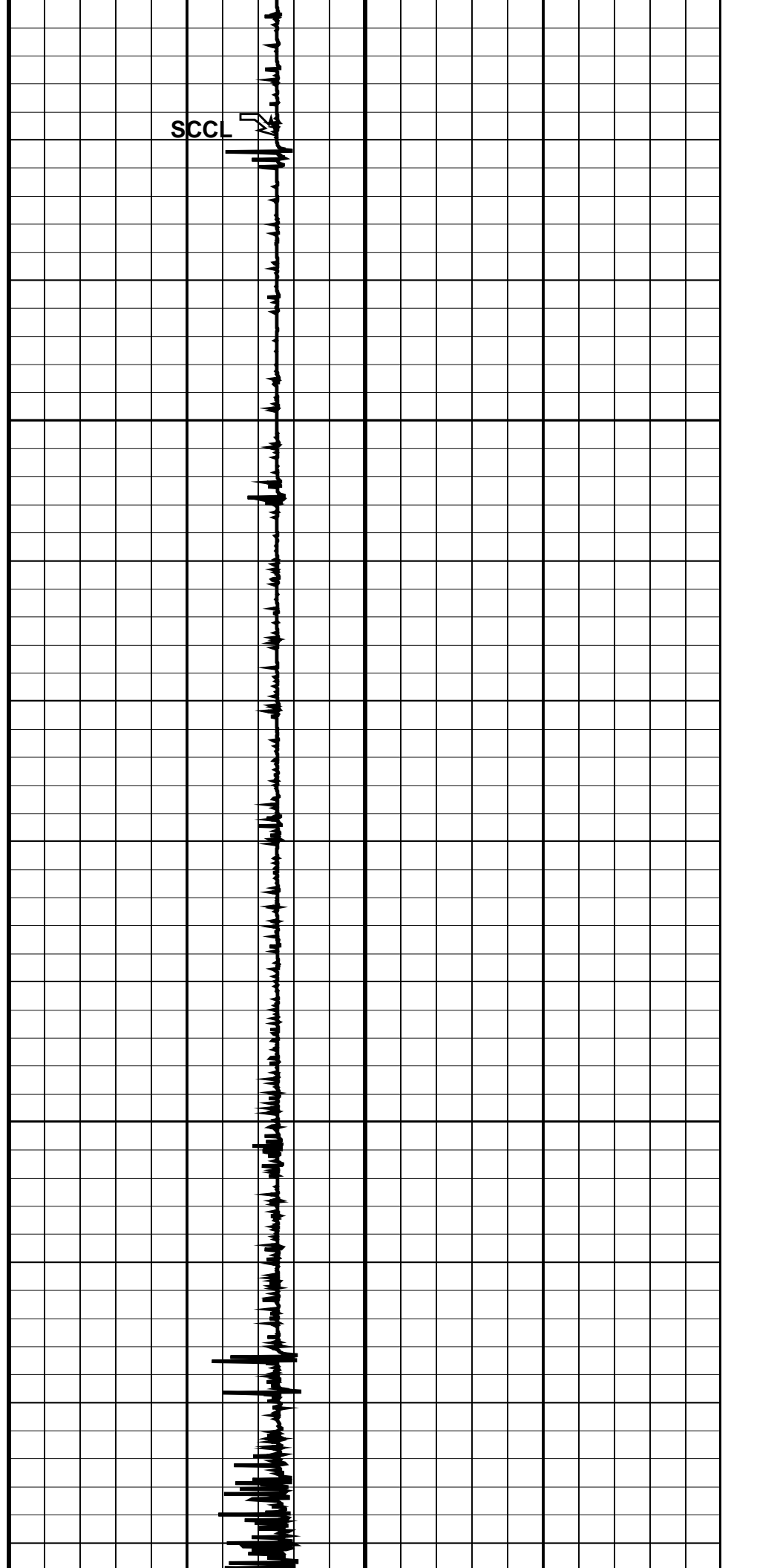
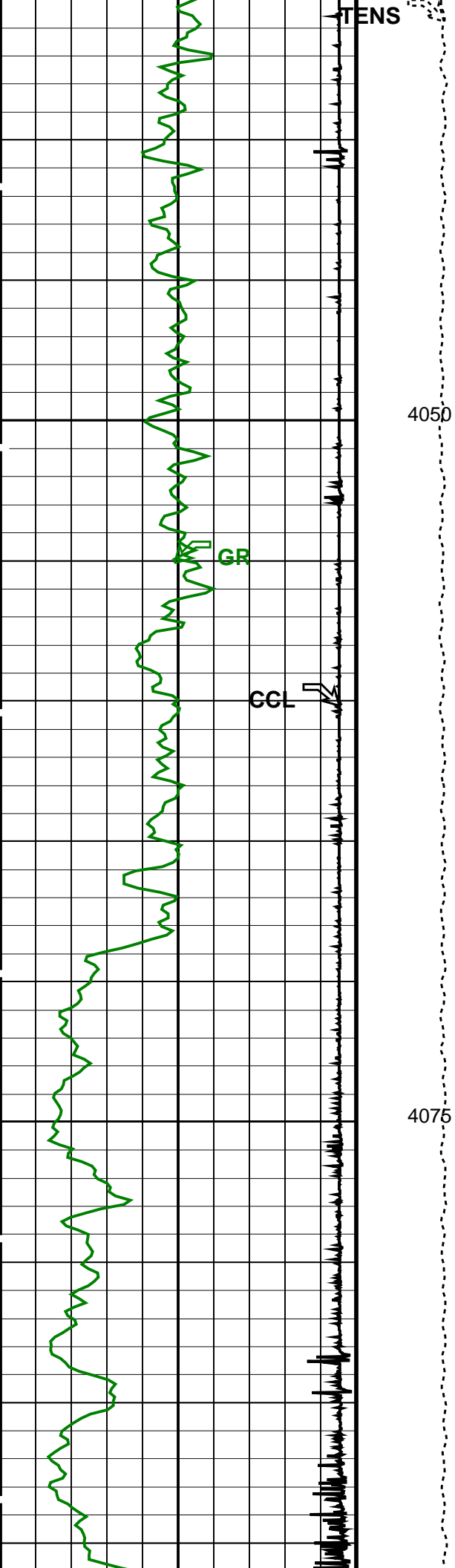
MCM

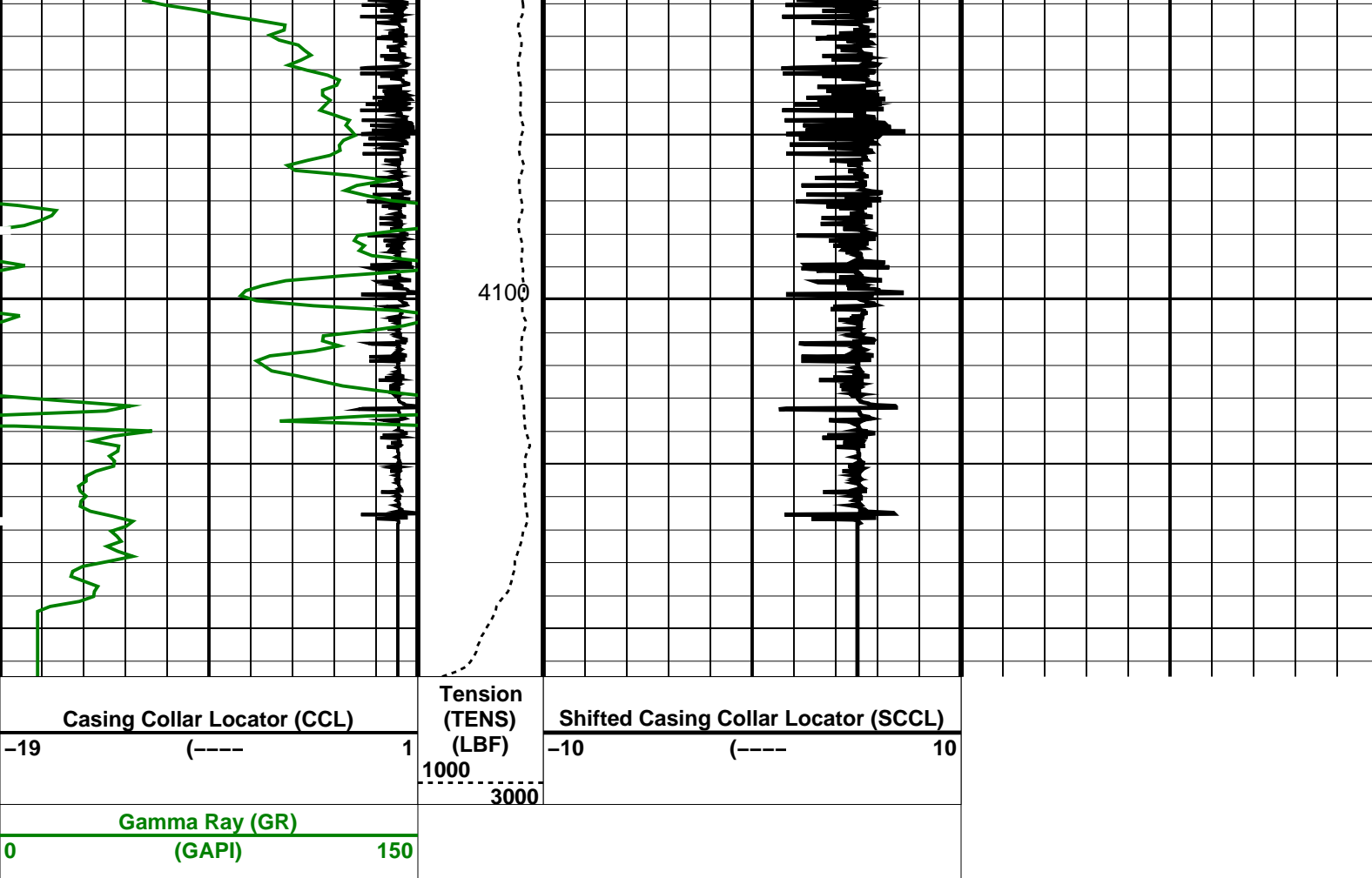
MWPT-DA	SRPC-3357-Q2_2007	MWGT-AA	SRPC-3357-Q2_2007
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PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MWPT-DA: 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
System and Miscellaneous		
DO	Depth Offset for Playback	5.2 M
PP	Playback Processing	RECOMPUTE

Format: MWP Vertical Scale: 1:200

Graphics File Created: 03-Sep-2007 15:54

OP System Version: 15C0-309 MCM

MWPT-DA SRPC-3357-Q2_2007 MWGT-AA SRPC-3357-Q2_2007

Input DLIS Files

DEFAULT PERFO_058LUP FN:84 PRODUCER 03-Sep-2007 14:25 4106.3 M 4003.9 M

Output DLIS Files

DEFAULT PERFO_058PUP FN:26 PRODUCER 03-Sep-2007 15:54

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration – Detector Calibration

Before: 27–Aug–2007 17:50

Gamma Ray (Signal) Background	30.00	N/A	3.162	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Background)	151.0	N/A	151.0	N/A	N/A	13.73	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL / Equipment Identification

Primary Equipment:

GAMMA RAY CARTRIDGE

MWPG – AA

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Auxiliary Equipment:

GAMMA RAY HOUSING

MWGH – AA

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MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration

Detector Calibration

Phase	Gamma Ray (Signal) Background	GAPI	Value	Phase	Gamma Ray (Jig – Background)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			3.162	Before			151.0	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		137.3 (Minimum)	151.0 (Nominal)	164.7 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 27–Aug–2007 17:50

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **FLA A6**

Field: **Flounder**

Rig: **Prod 3 / Flounder**

Country: **Australia**

MPBT

Cement Bailers

4–Sep–2007