



Company: Esso Australia Pty Ltd

Well: FTA-A4c  
Field: Fortescue  
Rig: Crane/Prod 4 Country: Australia

MWPT 2-1/8" Powerjet Perforation  
7" Posiset Plug  
Record

Crane/Prod 4

Rig: Fortescue

Location: Gippsland

Well: FTA-A4c

Company: Esso Australia Pty Ltd

LOCATION

Gippsland Basin Bass Strait

Elev.: K.B. 42.49 m  
G.L. -69 m  
D.F. 42.49 m

Permanent Datum: MSL

Log Measured From: DF

Drilling Measured From: DF

Elev.: 0 m

42.5 m above Perm. Datum

State: Victoria

Max. Well Deviation 61 deg

Longitude 148 16'36.62"E

Latitude 38 24'31.39"S

Logging Date	13-Jul-2008		
Run Number	1		
Depth Driller	3209 m		
Schlumberger Depth	3202 m		
Bottom Log Interval	3200 m		
Top Log Interval	3181.5 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level	260 m		
BIT/CASING/TUBING STRING			
Bit Size	8.500 in		
From			
To			
Casing/Tubing Size	7.000 in		
Weight	26 lbm/ft		
Grade	L-80		
From	23.15 m		
To	3290.72 m		
Maximum Recorded Temperatures	108 degC		
Logger On Bottom	13-Jul-2008		11:50
Unit Number	889	AUSL/Prod 4	
Recorded By	G Wright, M Pratt.		
Witnessed By	G Rimmer, J Digiovanni		

	Run 1
Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	61 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: 13-JUL-2008 19:20:15

### Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-BE Serial Number: 6373 Calibration Date: 4-Jan-2007 Calibrator Serial Number: 9 Calibration Cable Type: 2-32ZT Wheel Correction 1: -2 Wheel Correction 2: -4	Type: PSDS/OSDS Serial Number: 325357 Calibration Date: 12-Jul-2008 Calibrator Serial Number: 1174 Calibration Gain: 0.97 Calibration Offset: -128.00	Type: 2-32ZT Serial Number: 208196 Length: 7000.04 M Conveyance Method: Wireline Rig Type: Offshore_Fixed

### Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	
Reference Log Run Number:	
Reference Log Date:	















### Depth Control Remarks

1. IDW-BE 6873 used as primary depth control
2. Z-Chart used as back-up.
3.
4.
5.
6.

#### DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to Solar composite log provided by client.	
Objective: Perforate zone 3181.5m to 3183.0m with 2-1/8" Powerjet.	
Set 7" Posiset Plug @ 3200m MDKB using MPBT.	
Dump approximately 1m of cement on top of seal.	
Maximum deviation 61 deg @ 2075m MBKB.	
Gun # 1	
Top shot @ 3181.5m MDKB	
CCL to Top shot: 4m	

CCL Stop depth: 3177.5m MDKB					
Plug # 1					
Top of seal @ 3200m MDKB					
CCL to Top of seal: 6.8m					
CCL stop depth: 3193.2m MDKB					
SBHT = 226 degF					
SBHP= 3114.9 psia					
Crew: C Sheills, D Hiskins (Days)					
G Martin, R Murray					
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>15C0-309</div> <div>260 m</div> </div> </div>			<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
MWPM-AA 3008			MPBM		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
<div> <div>AH-SWBS-B 787</div> <div>AH-SWBS-B 787</div> </div>		10.30	<div> <div>AH-SWBS-B</div> <div>AH-SWBS-B 785</div> </div>		12.31
<div> <div>AH-SWBS-B 786</div> <div>AH-SWBS-B 786</div> </div>		9.62	<div> <div>AH-SWBS-B</div> <div>AH-SWBS-B 786</div> </div>		11.61
<div> <div>AH-SWBS-B 788</div> <div>AH-SWBS-B 788</div> </div>		8.93	<div> <div>AH-SWBS-B</div> <div>AH-SWBS-B 787</div> </div>		10.91
<div> <div>MH-SWHS-A 759</div> <div>MH-SWHS-A 759</div> </div>		8.25	<div> <div>MH-SWHS-A</div> <div>MH-SWHS-A 759</div> </div>		10.22
<div> <div>AH-124 7002</div> <div>MWGT-AA 69</div> <div>MWPG-AA</div> <div>MWGH-AA 69</div> </div>		7.92	<div> <div>CCL-L 9851</div> <div>CCL-L 9851</div> </div>		9.82
<div> <div>MWPG GR</div> <div>_____ 2.41</div> </div>		7.81	<div> <div>MPSU-BA 20</div> <div>MPSU-BA 20</div> </div>		9.36
<div> <div>MWPT-CA 74</div> <div>MWPH-AA 74</div> <div>MWPS-AA 74</div> </div>		6.84			
<div> <div>CCL</div> <div>SMWP Pres</div> <div>SMWP Temp</div> <div>Tension</div> <div>_____ TOOL ZERO</div> </div>					
<div> <div>AH-Flex Joint 41</div> <div>AH-Flex Joint 41</div> </div>		4.02			

SAH-G 1035

SAH-G 1035

MPD-MB 336

MPD-MB 336

AH-ESIC 4007395

AH-ESIC 4007395

AH-Firing Head 1

MWP\_GUN

GUN-2 1/8" Phased Powerjet 1

3.56

3.23

2.69

2.26

2.03

TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN

MEASUREMENTS RELATIVE TO TOOL ZERO

ALL LENGTHS IN METERS

MPEX-EA\_L 81

MPEX-EA\_L 81

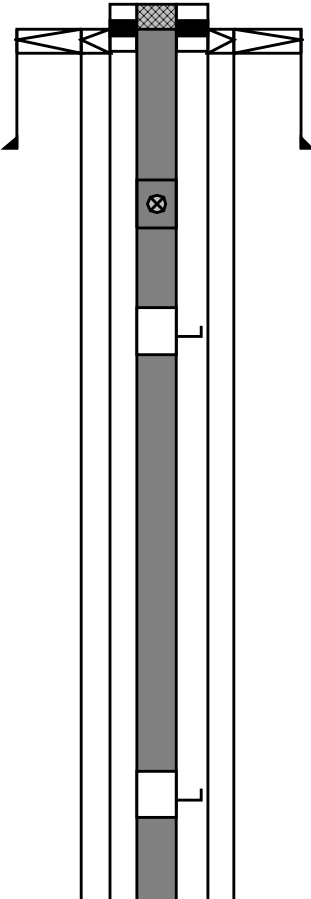
3.12

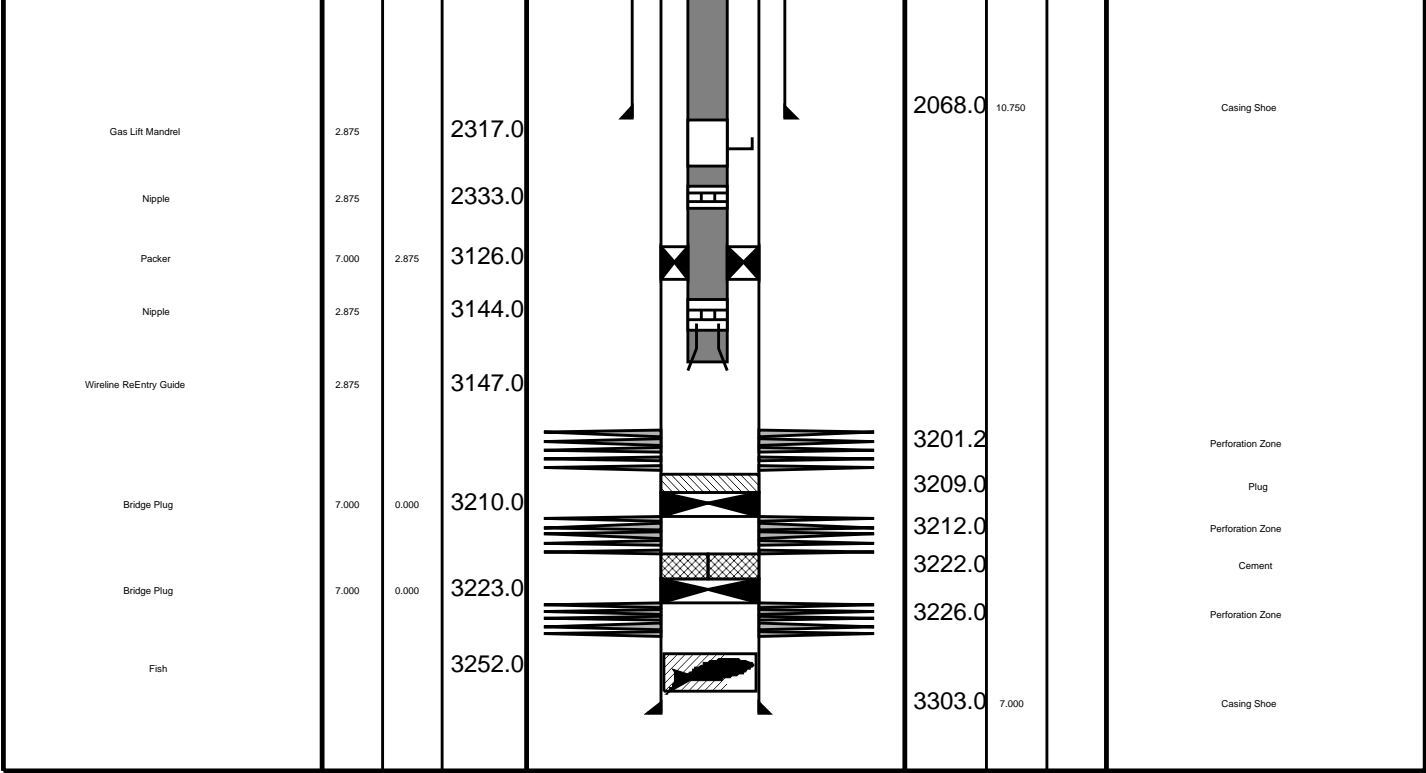
TOOL BOTTOM

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	7.000	2.875	21.5		21.5	7.000	7.000	Casing String
	2.875		21.5		22.0	20.000		Conductor Pipe
Shutin Valve					22.0	10.750		Casing String
					22.0	20.000	10.750	Liner Hanger
Gas Lift Mandrel					190.0	20.000		Casing Shoe
Gas Lift Mandrel								
Gas Lift Mandrel								
Gas Lift Mandrel	2.875		1656.0					



Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File	
Log Pass (down)	13-Jul-2008 11:11 000:35	878.0 – 3202.5	PERFO_004LDP	
Log Pass (up)	13-Jul-2008 11:46 000:04	3201.5 – 3173.0	PERFO_005LUP	
Log Pass (up)	13-Jul-2008 11:53 000:05	3204.1 – 3162.3	PERFO_006LUP	
Log Pass (up)	13-Jul-2008 11:59 000:17	3193.8 – 3147.1	PERFO_007LUP	
Log Pass (down)	13-Jul-2008 13:33 000:31	37.5 – 3206.3	PERFO_011LDP	
Log Pass (up)	13-Jul-2008 14:05 000:07	3206.8 – 3112.8	PERFO_012LUP	
Log Pass (up)	13-Jul-2008 14:43 000:02	191.1 – 165.0	PERFO_015LUP	
Log Pass (up)	13-Jul-2008 14:46 000:06	43.9 – -10.8	PERFO_016LUP	
Log Pass (up)	13-Jul-2008 15:44 000:23	12192.0 – 12191.6	CCL_017LUP	
Log Pass (down)	13-Jul-2008 16:09 000:54	11.7 – 3193.2	CCL_018LDP	
Simulated Log	13-Jul-2008 17:04 000:21		CCL_019LUP	
Log Pass (up)	13-Jul-2008 17:25 000:04	3193.1 – 3121.3	CCL_020LUP	
Log Pass (up)	13-Jul-2008 17:40 000:02	2017.3 – 1990.0	CCL_023LUP	
Log Pass (up)	13-Jul-2008 17:48 000:01	438.8 – 388.3	CCL_024LUP	
Log Pass (up)	13-Jul-2008 17:51 000:08	78.6 – -8.1	CCL_025LUP	
Log Pass (down)	13-Jul-2008 19:09 001:21	5.0 – 3197.9	PERFO_029LDP	
Log Pass (up)	13-Jul-2008 20:31 000:11	3197.8 – 3116.6	PERFO_031LUP	

Log Pass (up) 13-Jul-2008 20:31 000:11 3197.8 - 3110.0 PERFO\_031LUP  
Log Pass (up) 13-Jul-2008 20:42 001:02 3107.4 - -4.7 PERFO\_032LUP  
Log Pass (down) 13-Jul-2008 22:14 000:55 16.0 - 3203.0 PERFO\_035LDP  
Log Pass (up) 13-Jul-2008 23:10 000:12 3202.8 - 3117.5 PERFO\_037LUP  
Log Pass (up) 13-Jul-2008 23:22 000:01 3096.2 - 3043.6 PERFO\_038LUP



Cement Dump Pass

MAXIS Field Log

Input DLIS Files

DEFAULT PERFO\_037LUP FN:35 PRODUCER 13-Jul-2008 23:10 3202.8 M 3117.5 M

Output DLIS Files

DEFAULT PERFO\_041PUP FN:39 PRODUCER 13-Jul-2008 23:34 3195.8 M 3110.9 M

OP System Version: 15C0-309

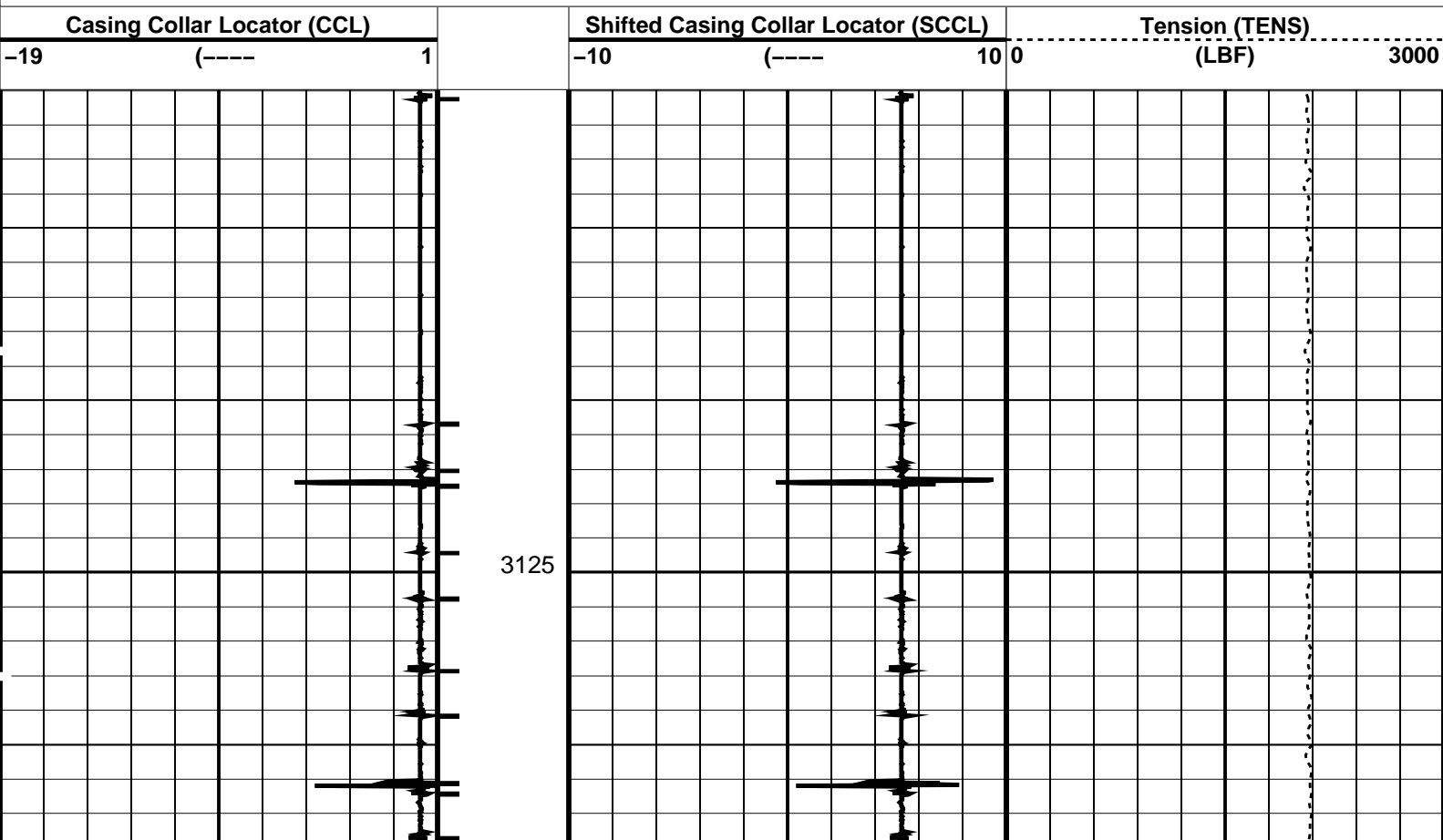
MCM

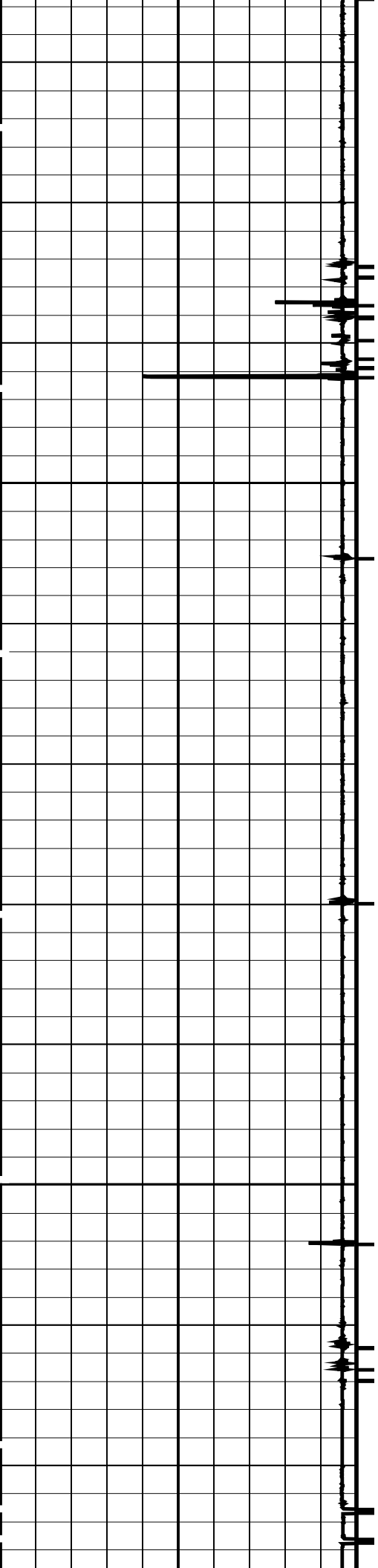
SHM\_GUN SRPC-3546-Q1\_2008\_OP15 CCL-L SRPC-3546-Q1\_2008\_OP15

PIP SUMMARY

└─ Casing Collars

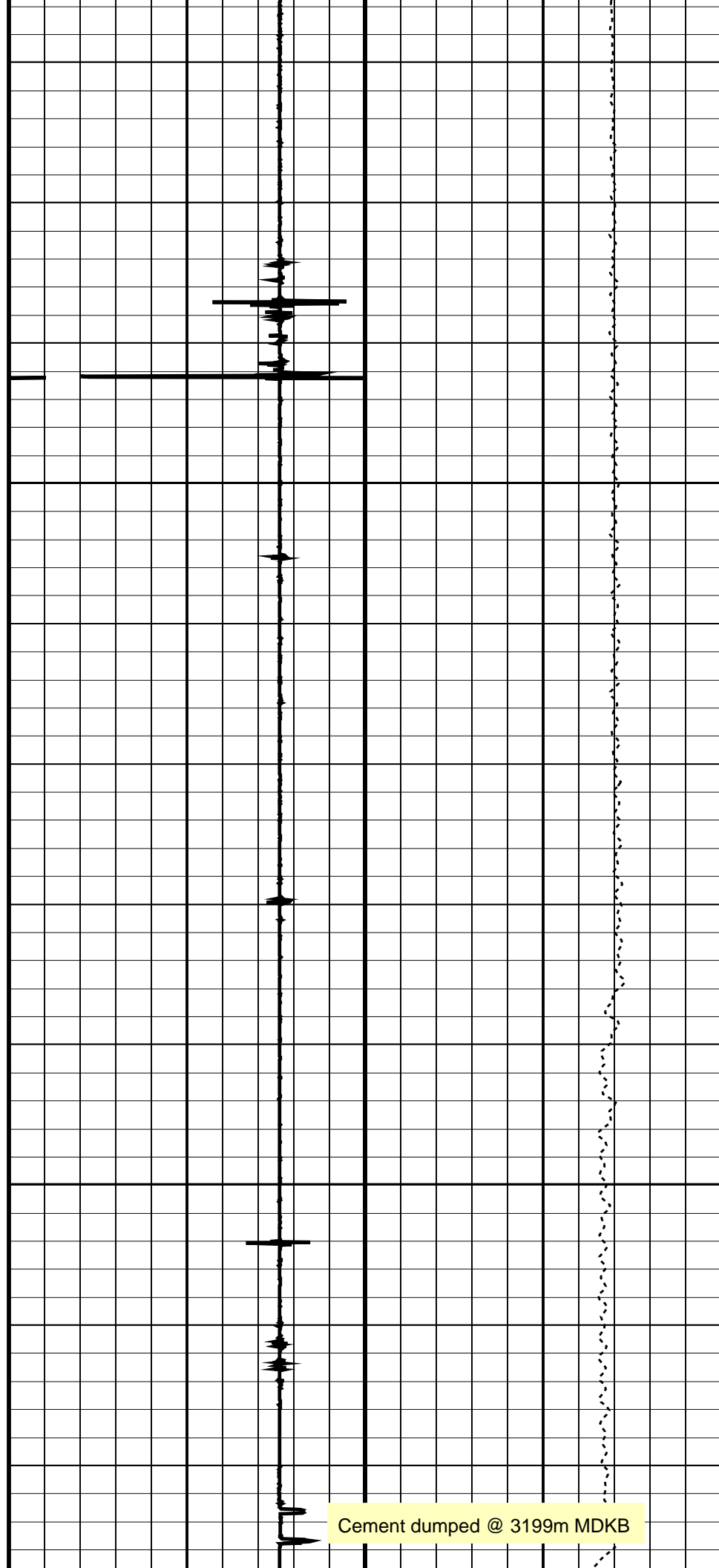
Time Mark Every 60 S





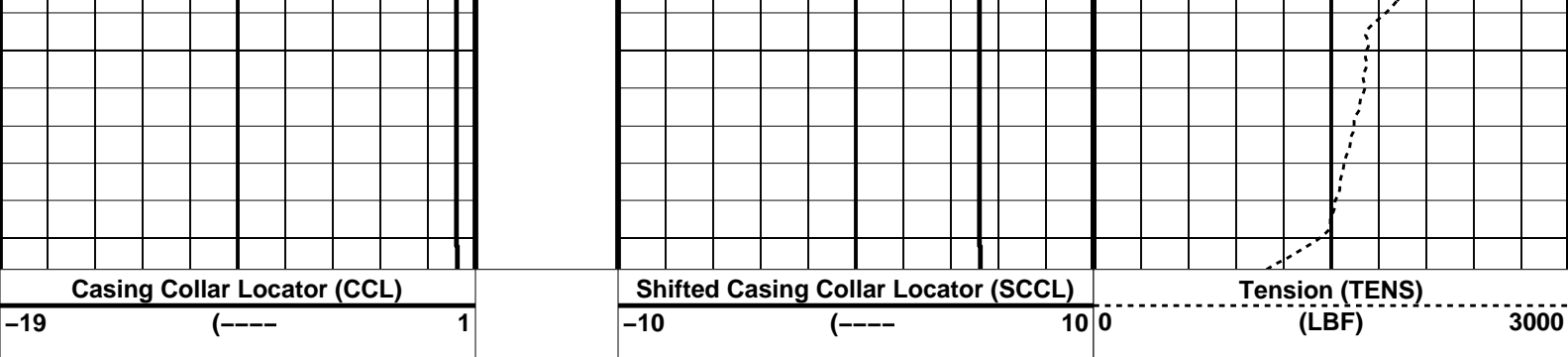
3150

3175



Cement dumped @ 3199m MDKB





PIP SUMMARY

Time Mark Every 60 S

Casing Collars

Parameters		
DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
DO	CCL Detection Level	
PP	System and Miscellaneous	
	Depth Offset for Playback	-7.0 M
	Playback Processing	NORMAL


Format: PERFO Vertical Scale: 1:200 Graphics File Created: 13-Jul-2008 23:34

OP System Version: 15C0-309

MCM

SHM\_GUN SRPC-3546-Q1\_2008\_OP15 CCL-L SRPC-3546-Q1\_2008\_OP15

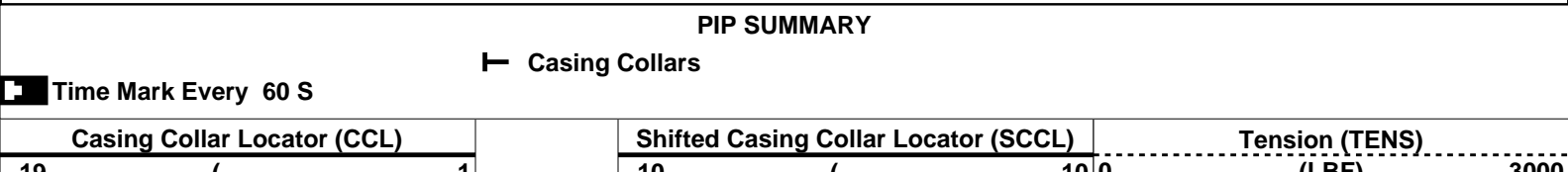
Input DLIS Files					
DEFAULT	PERFO_037LUP	FN:35	PRODUCER	13-Jul-2008 23:10	3202.8 M 3117.5 M
Output DLIS Files					
DEFAULT	PERFO_041PUP	FN:39	PRODUCER	13-Jul-2008 23:34	

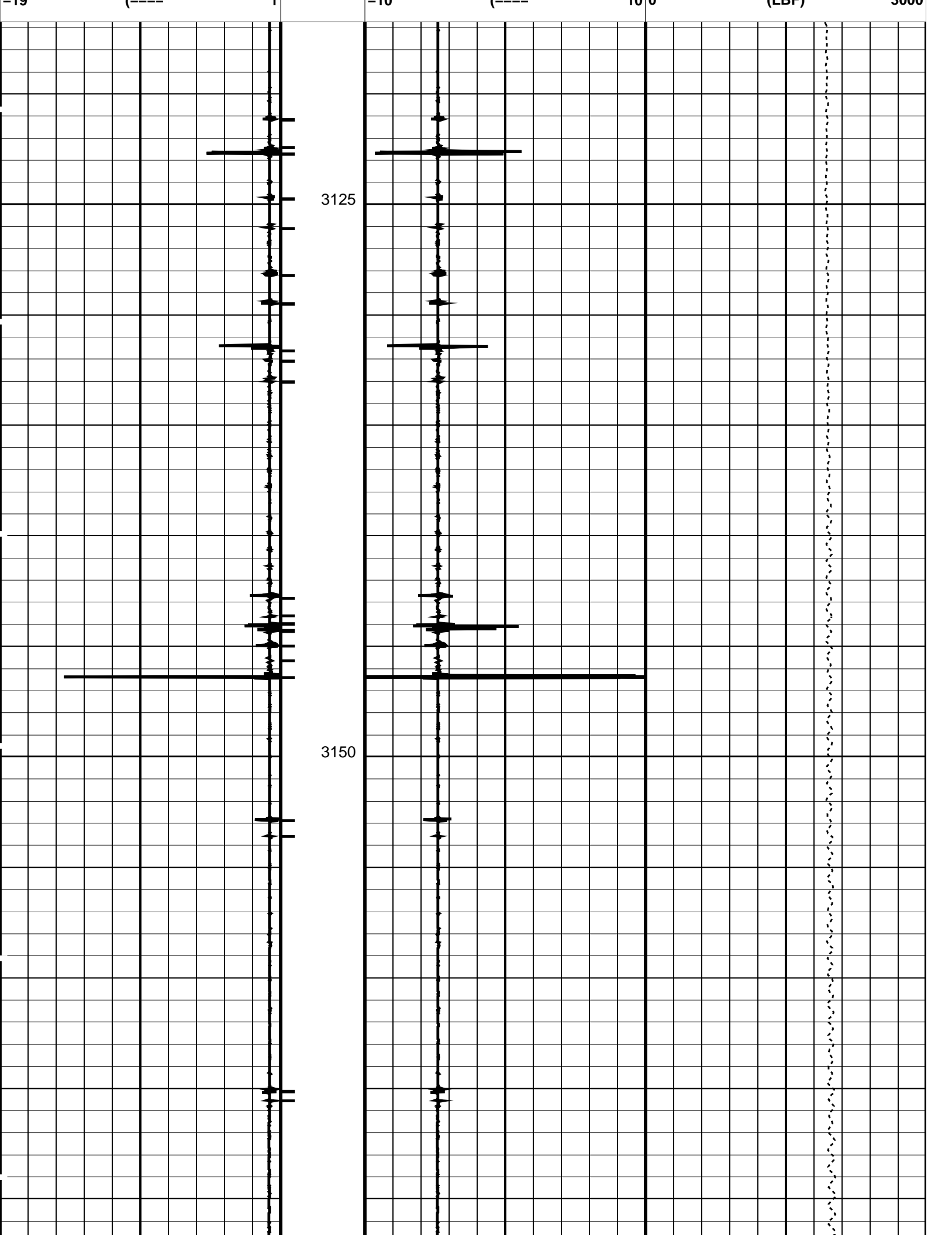


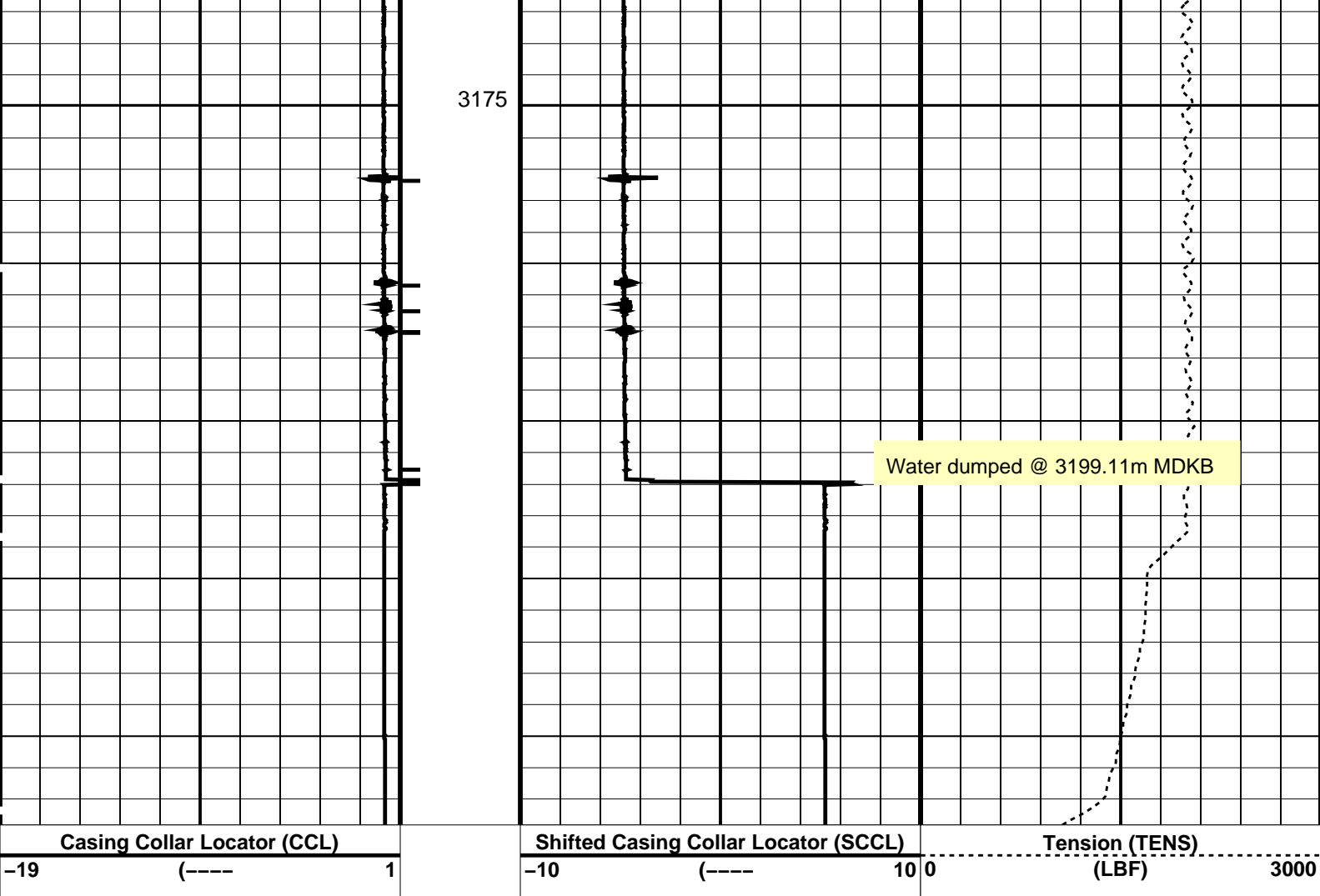
Water Dump Pass

MAXIS Field Log

Output DLIS Files					
DEFAULT	PERFO_031LUP	FN:29	PRODUCER	13-Jul-2008 20:31	3197.8 M 3116.6 M
OP System Version: 15C0-309					
SHM_GUN	SRPC-3546-Q1_2008_OP15	CCL-L	SRPC-3546-Q1_2008_OP15		







#### 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	0.3 V
	CCL Detection Level	

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 13-Jul-2008 20:31

#### OP System Version: 15C0-309

MCM

SHM\_GUN SRPC-3546-Q1\_2008\_OP15 CCL-L SRPC-3546-Q1\_2008\_OP15

#### Output DLIS Files

DEFAULT PERFO\_031LUP FN:29 PRODUCER 13-Jul-2008 20:31

**Schlumberger**

7" Posiset Plug  
Set @ 3200m MDKB

Output DLIS Files

DEFAULT CCL\_019LUP FN:18 PRODUCER 13-Jul-2008 17:04

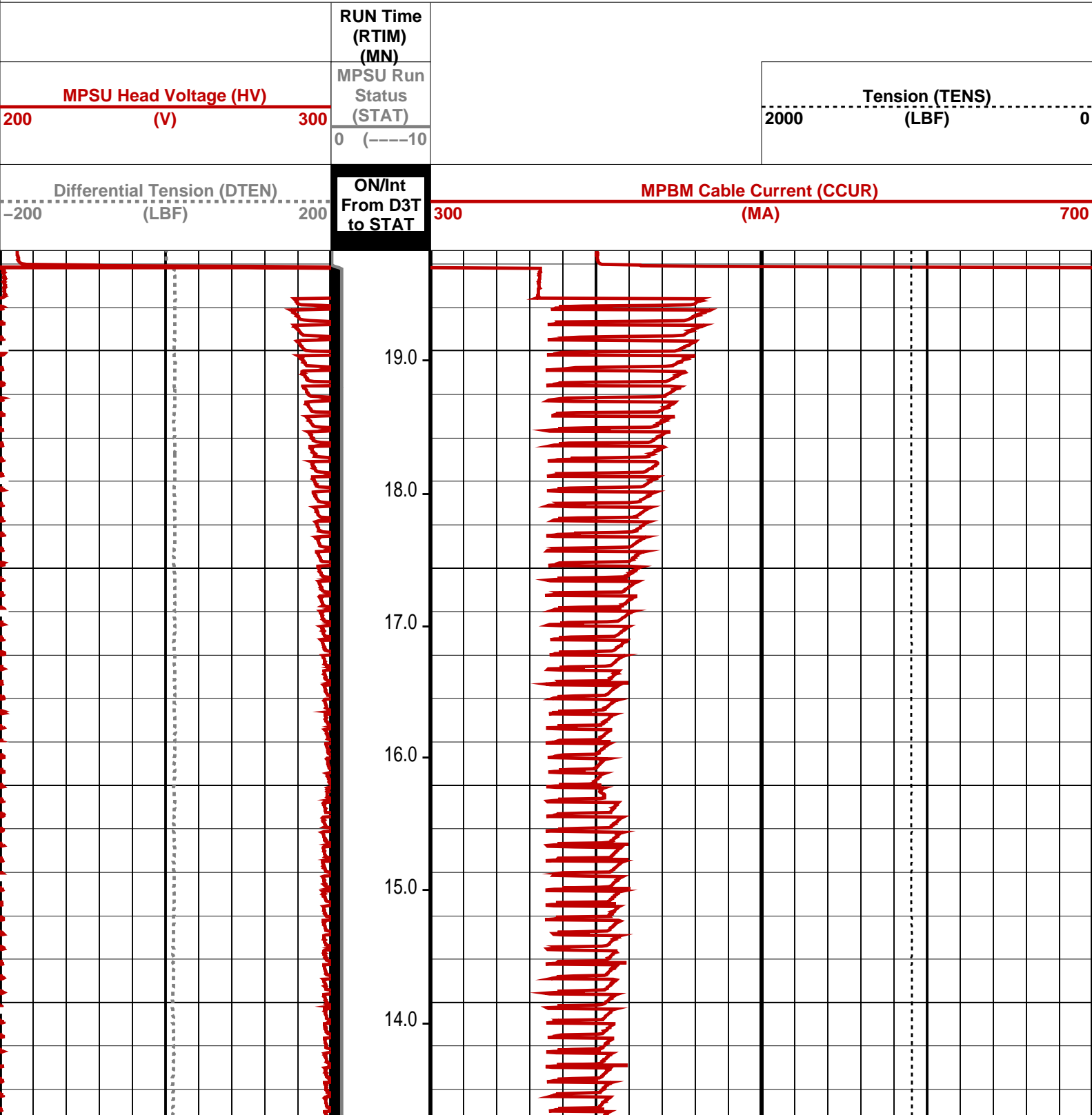
OP System Version: 15C0-309  
MCM

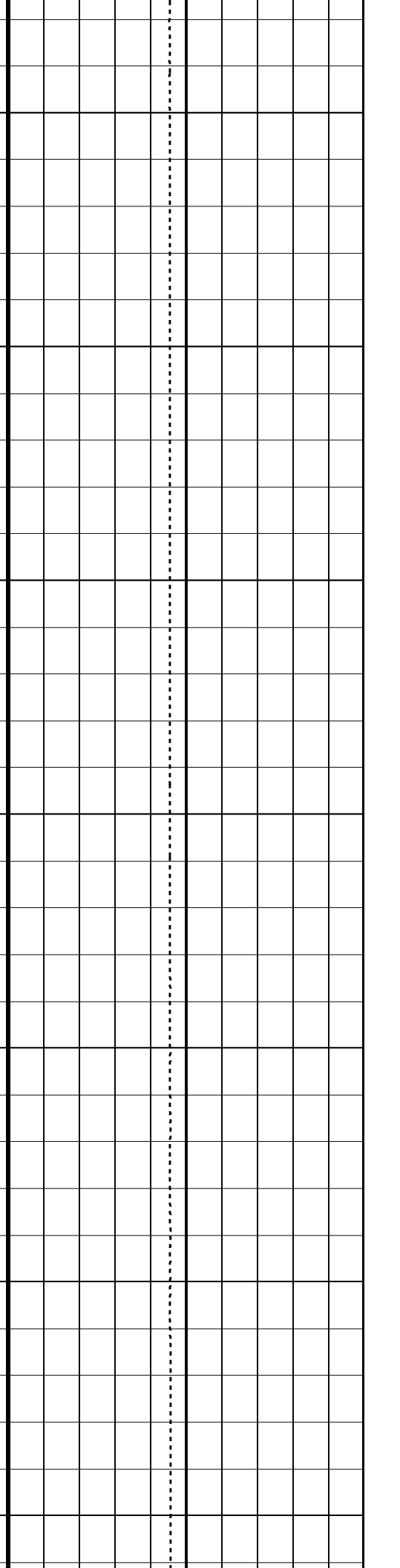
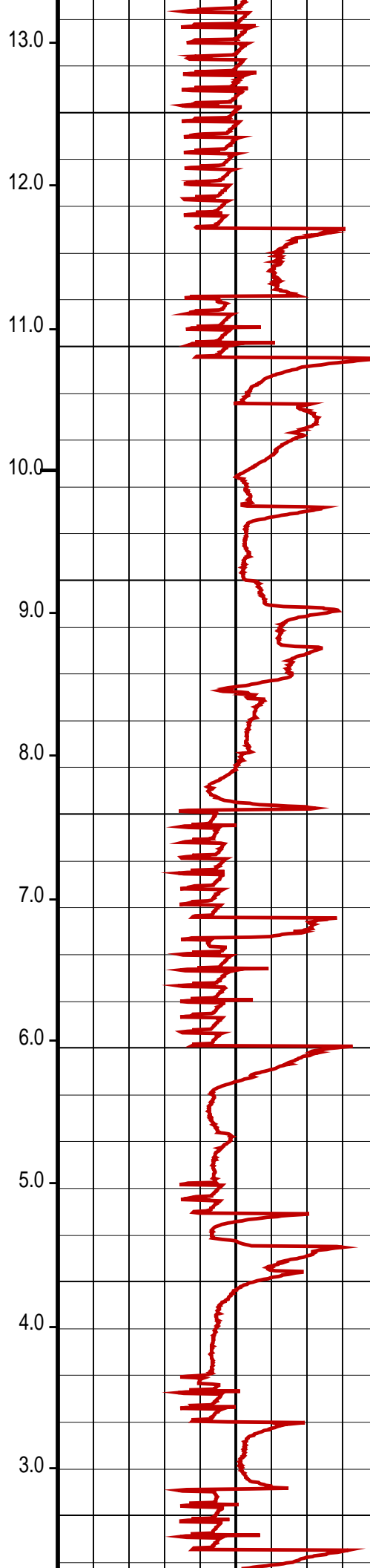
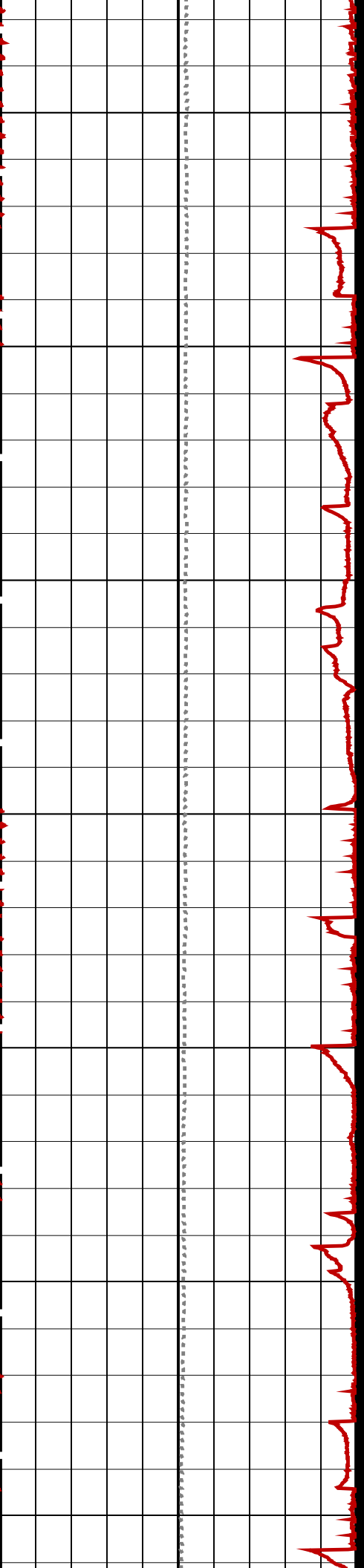
MPEX-EA\_L SRPC-3546-Q1\_2008\_OP15 MPSU-BA SRPC-3546-Q1\_2008\_OP15  
CCL-L SRPC-3546-Q1\_2008\_OP15

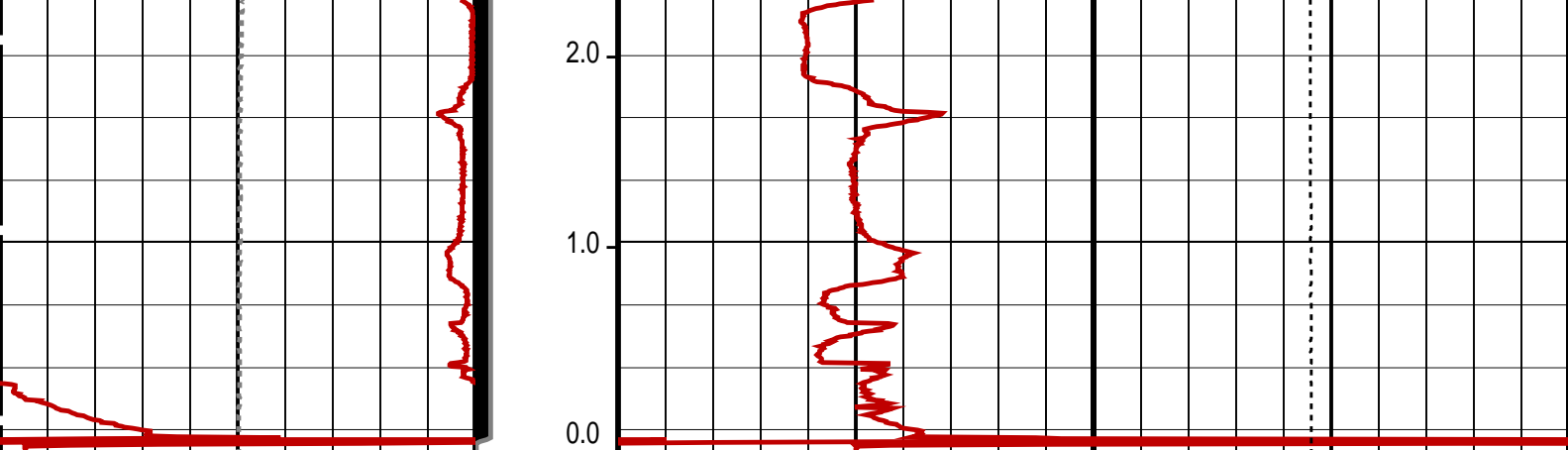
PIP SUMMARY

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

Time Mark Every 60 S







Differential Tension (DTEN) (LBF)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR) (MA)
-200 200		300 700
MPSU Head Voltage (HV) (V)	MPSU Run Status (STAT)	Tension (TENS) (LBF)
200 300	0 (----10)	2000 0
	RUN Time (RTIM) (MN)	


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-BA: MECHANICAL PLUGBACK SETTING UNIT IPUMP	Intensifier Pump	TRUE

Format: MPBT    Vertical Scale: 1:600    Graphics File Created: 13-Jul-2008 17:04

OP System Version: 15C0-309			
MCM			
MPEX-EA_L	SRPC-3546-Q1_2008_OP15	MPSU-BA	SRPC-3546-Q1_2008_OP15
CCL-L	SRPC-3546-Q1_2008_OP15		

Output DLIS Files			
DEFAULT	CCL_019LUP	FN:18	PRODUCER 13-Jul-2008 17:04



Log Down to Setting Depth

MAXIS Field Log

Input DLIS Files				
DEFAULT	Flip_CCL_021LUP	PRODUCER	13-Jul-2008 17:31	3193.2 M 11.7 M

Output DLIS Files				
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OP System Version: 15C0-309

MCM

MPEX-EA\_L  
CCL-L

SRPC-3546-Q1\_2008\_OP15  
SRPC-3546-Q1\_2008\_OP15

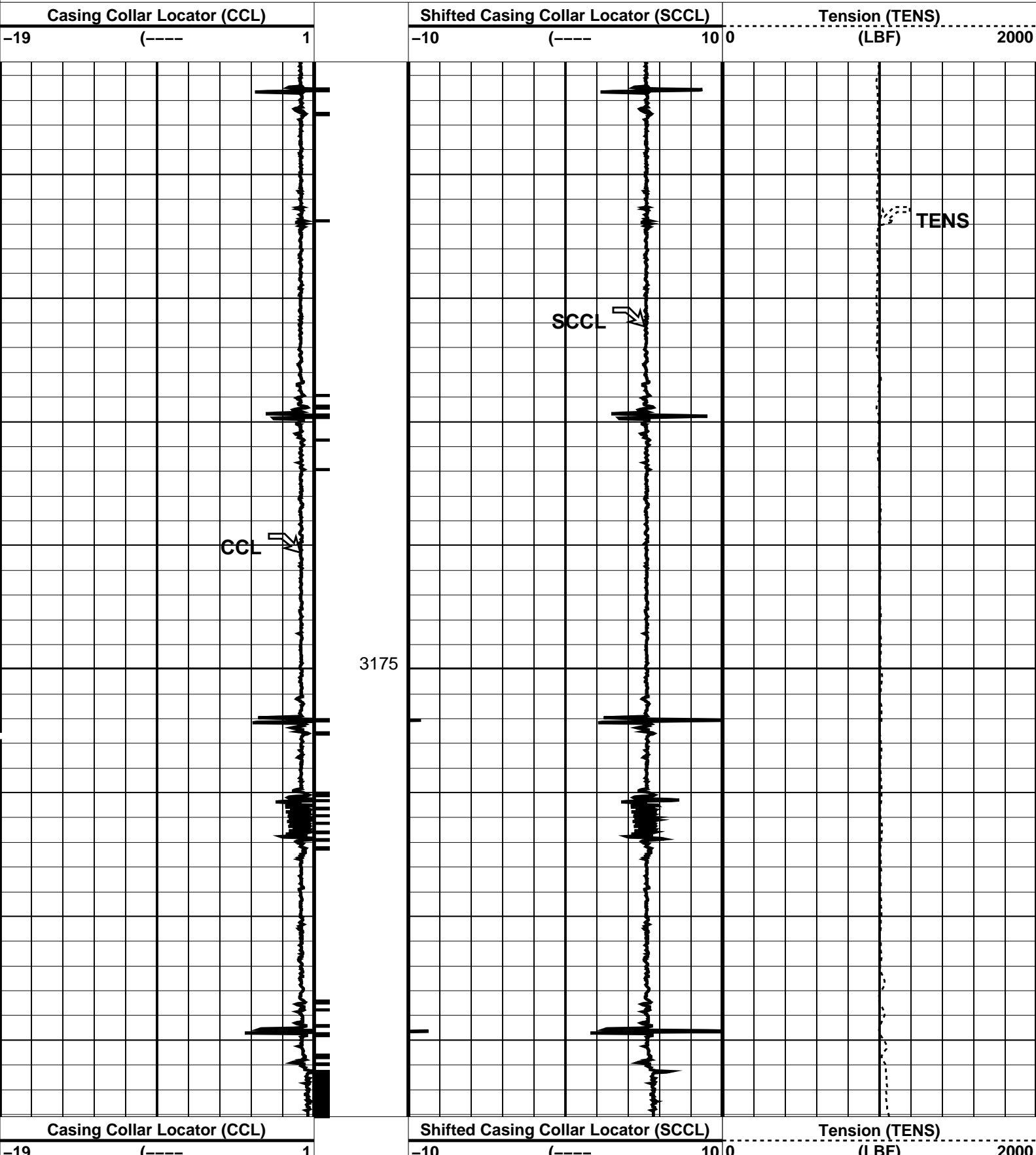
MPSU-BA

SRPC-3546-Q1\_2008\_OP15

PIP SUMMARY

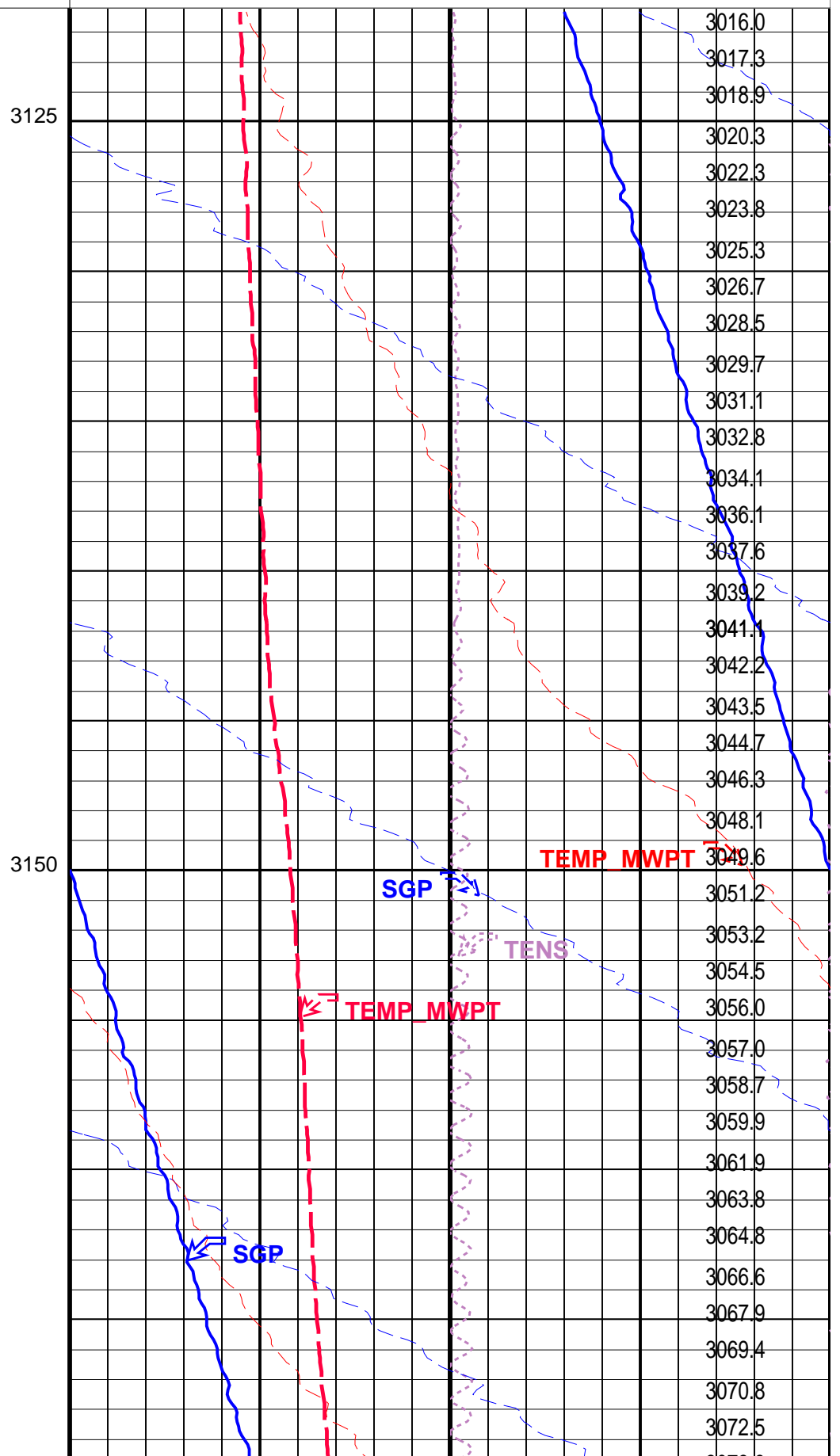
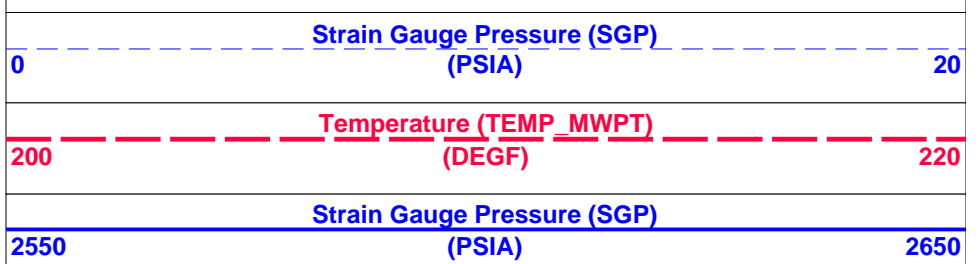
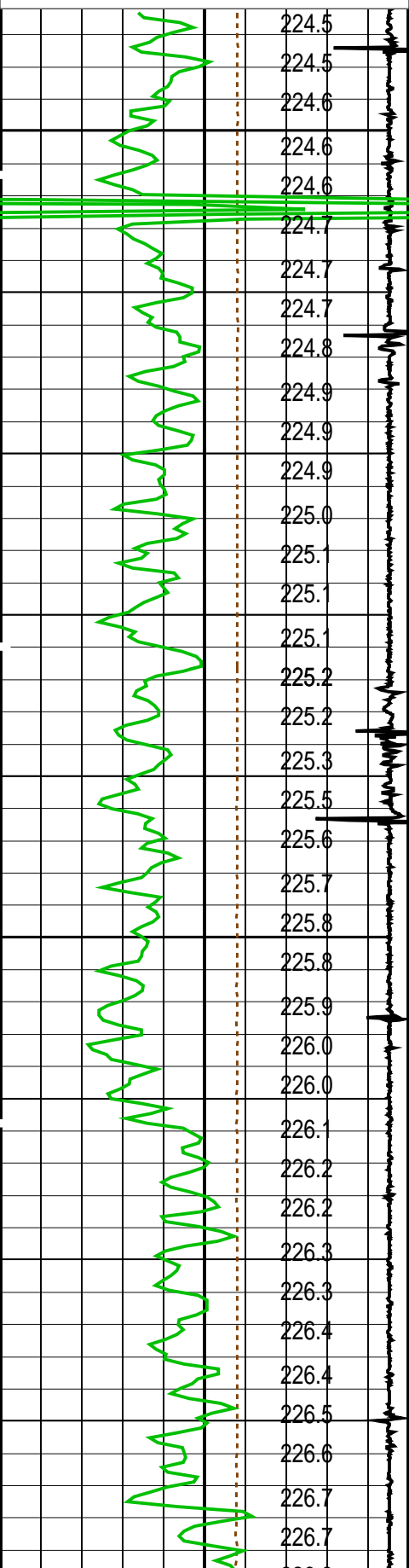
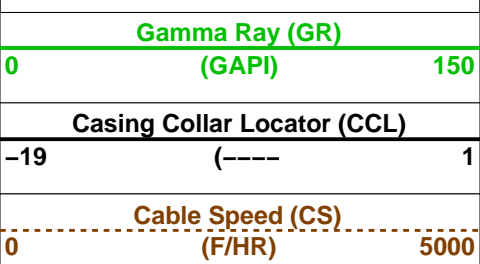
└─ Casing Collars

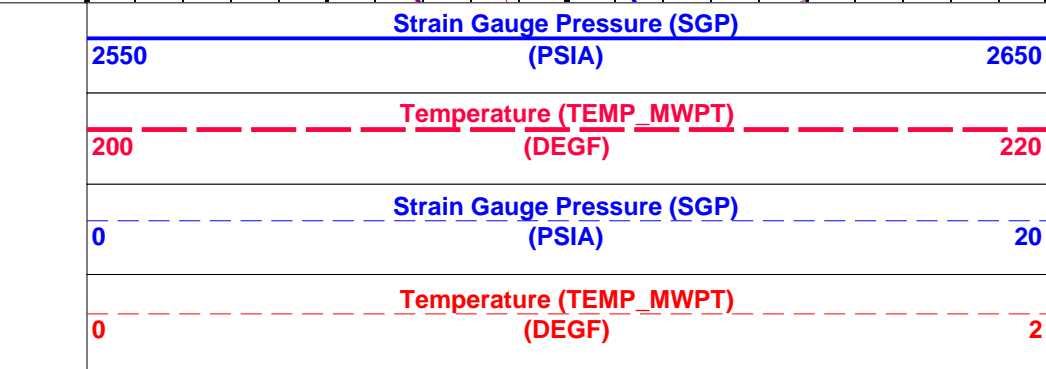
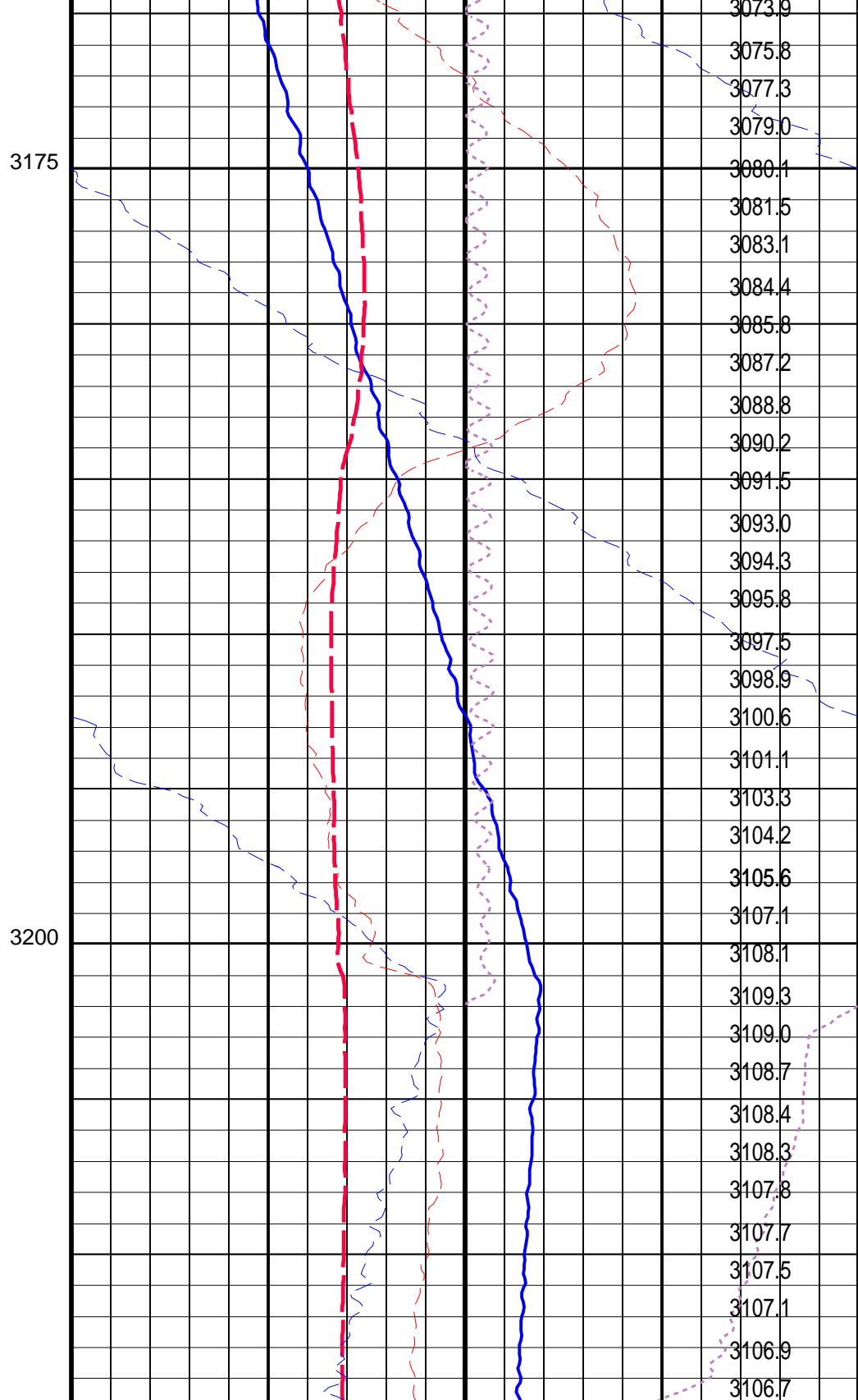
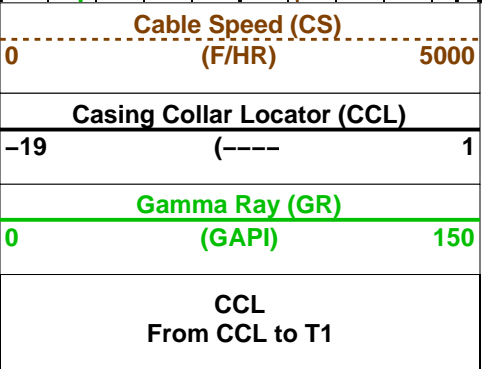
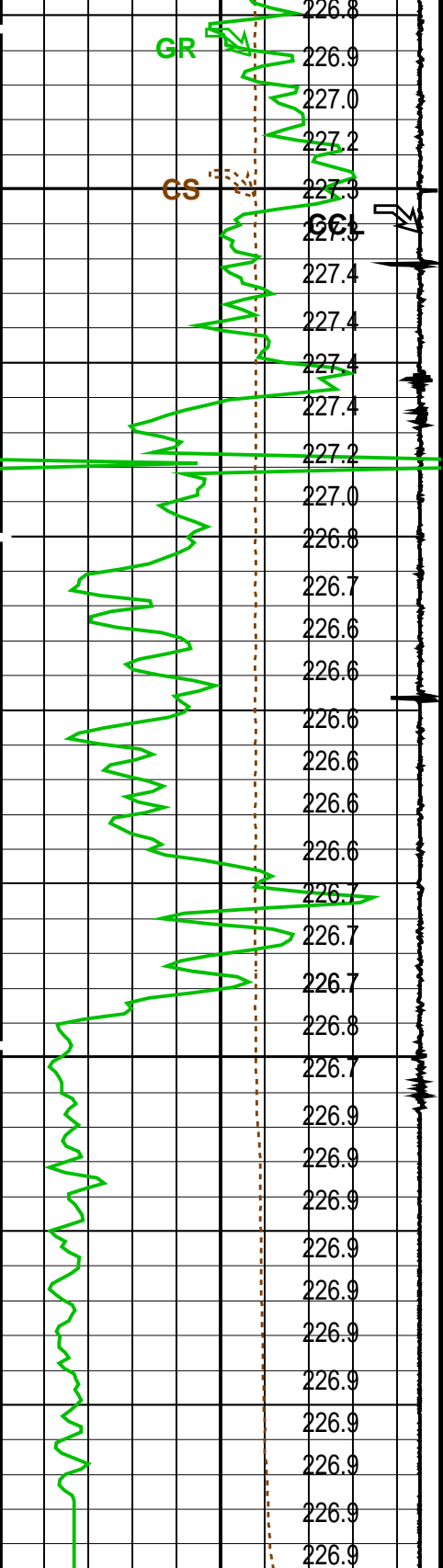
Time Mark Every 60 S

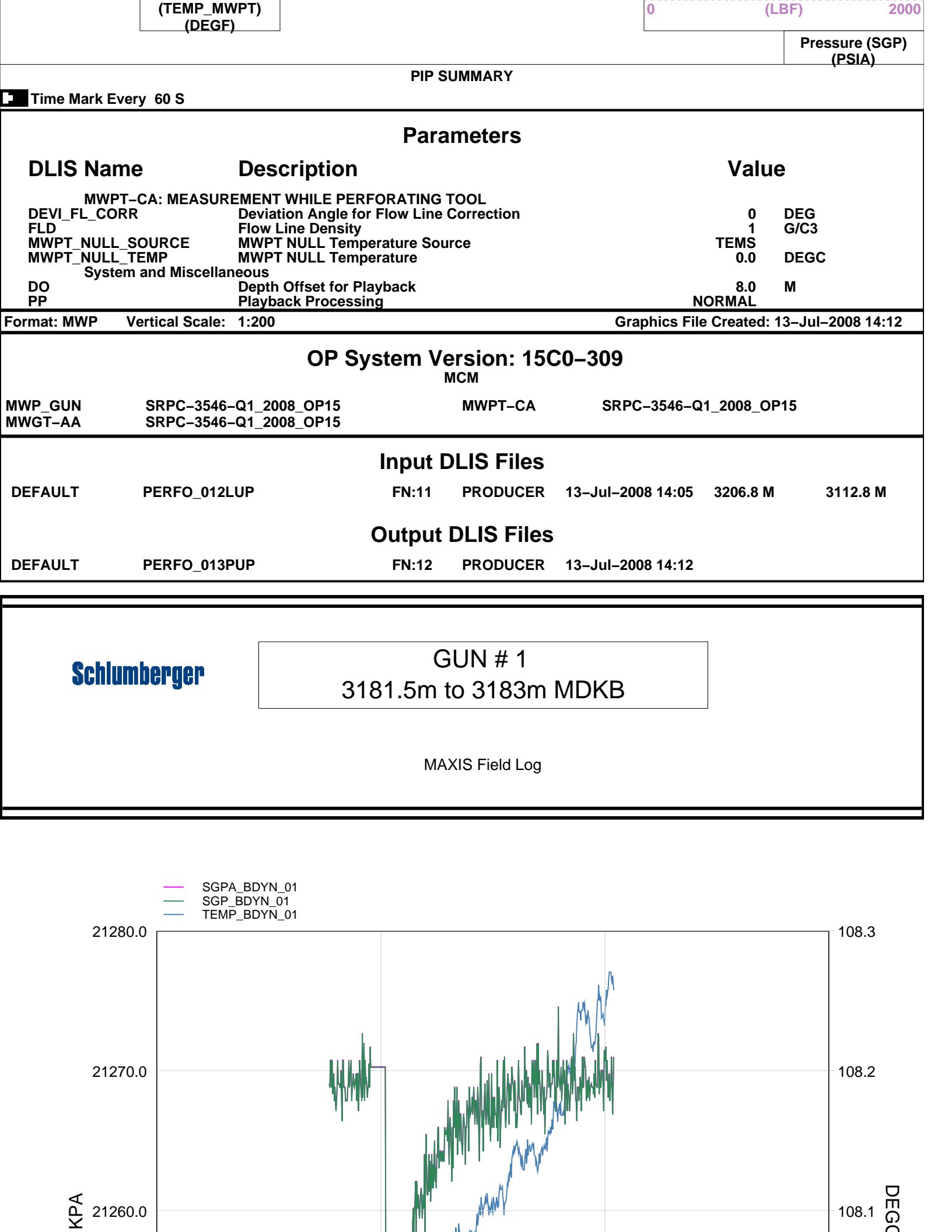


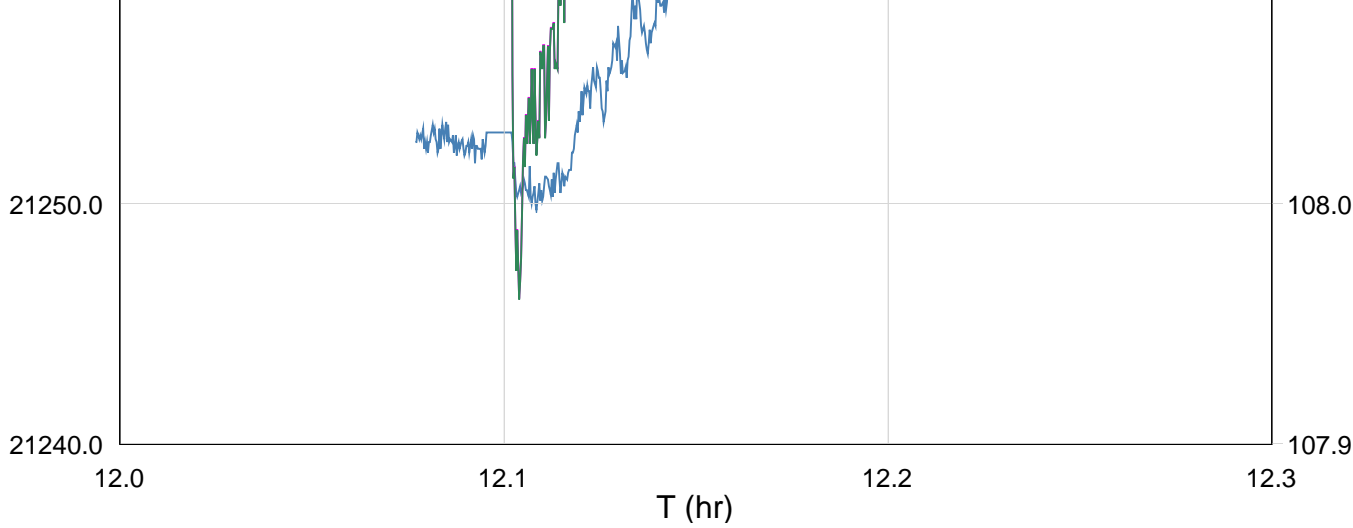
PIP SUMMARY									
Time Mark Every 60 S									
Casing Collars									
Parameters									
DLIS Name		Description					Value		
CCLD		CCL-L: Casing Collar Locator					12 IN		
CCLT		CCL reset delay					0.3 V		
		CCL Detection Level							
		System and Miscellaneous							
DO		Depth Offset for Playback					0.0 M		
PP		Playback Processing					NORMAL		
Format: PERFO Vertical Scale: 1:200 Graphics File Created: 13-Jul-2008 17:32									
OP System Version: 15C0-309									
MCM									
MPEX-EA_L		SRPC-3546-Q1_2008_OP15			MPSU-BA		SRPC-3546-Q1_2008_OP15		
CCL-L		SRPC-3546-Q1_2008_OP15							
Input DLIS Files									
DEFAULT	Flip_CCL_021LUP	PRODUCER	13-Jul-2008 17:31	3193.2 M	11.7 M				
Output DLIS Files									
DEFAULT	CCL_022PUP	FN:20	PRODUCER	13-Jul-2008 17:32					
Schlumberger									
2 1/8" Dummy Plug Pass									
MAXIS Field Log									
Company: Esso Australia Pty Ltd. Well: A-4c									
Input DLIS Files									
DEFAULT	PERFO_012LUP	FN:11	PRODUCER	13-Jul-2008 14:05	3206.8 M	3112.8 M			
Output DLIS Files									
DEFAULT	PERFO_013PUP	FN:12	PRODUCER	13-Jul-2008 14:12	3214.7 M	3121.2 M			
OP System Version: 15C0-309									
MCM									
MWP_GUN		SRPC-3546-Q1_2008_OP15			MWPT-CA		SRPC-3546-Q1_2008_OP15		
MWGT-AA		SRPC-3546-Q1_2008_OP15							
PIP SUMMARY									
Time Mark Every 60 S									
								Pressure (SGP) (PSIA)	
		Temperature (TEMP_MWPT) (DEGF)						Tension (TENS) (LBF)	
								0 2000	
CCL From CCL to T1				Temperature (TEMP_MWPT) (DEGF)				0 2	











TIME	DEGF	PSIA
3630.0	226.83	3084.788
3600.0	226.83	3084.698
3570.0	226.71	3085.063
3540.0	226.65	3084.754
3510.0	226.64	3084.678
3480.0	226.59	3084.467
3450.0	226.58	3084.673
3420.0	226.52	3084.430
3390.0	226.52	3084.111
3360.0	226.48	3083.791
3330.0	226.42	3083.362
3300.0	226.40	3081.824
3270.0	226.45	3084.998
3240.0	226.45	3085.033
3210.0	226.45	3084.649



Shooting Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-4c

Output DLIS Files

DEFAULT

PERFO\_007LUP

FN:6

PRODUCER

13-Jul-2008 11:59

3193.8 M

3147.1 M

OP System Version: 15C0-309

MCM

MWP\_GUN

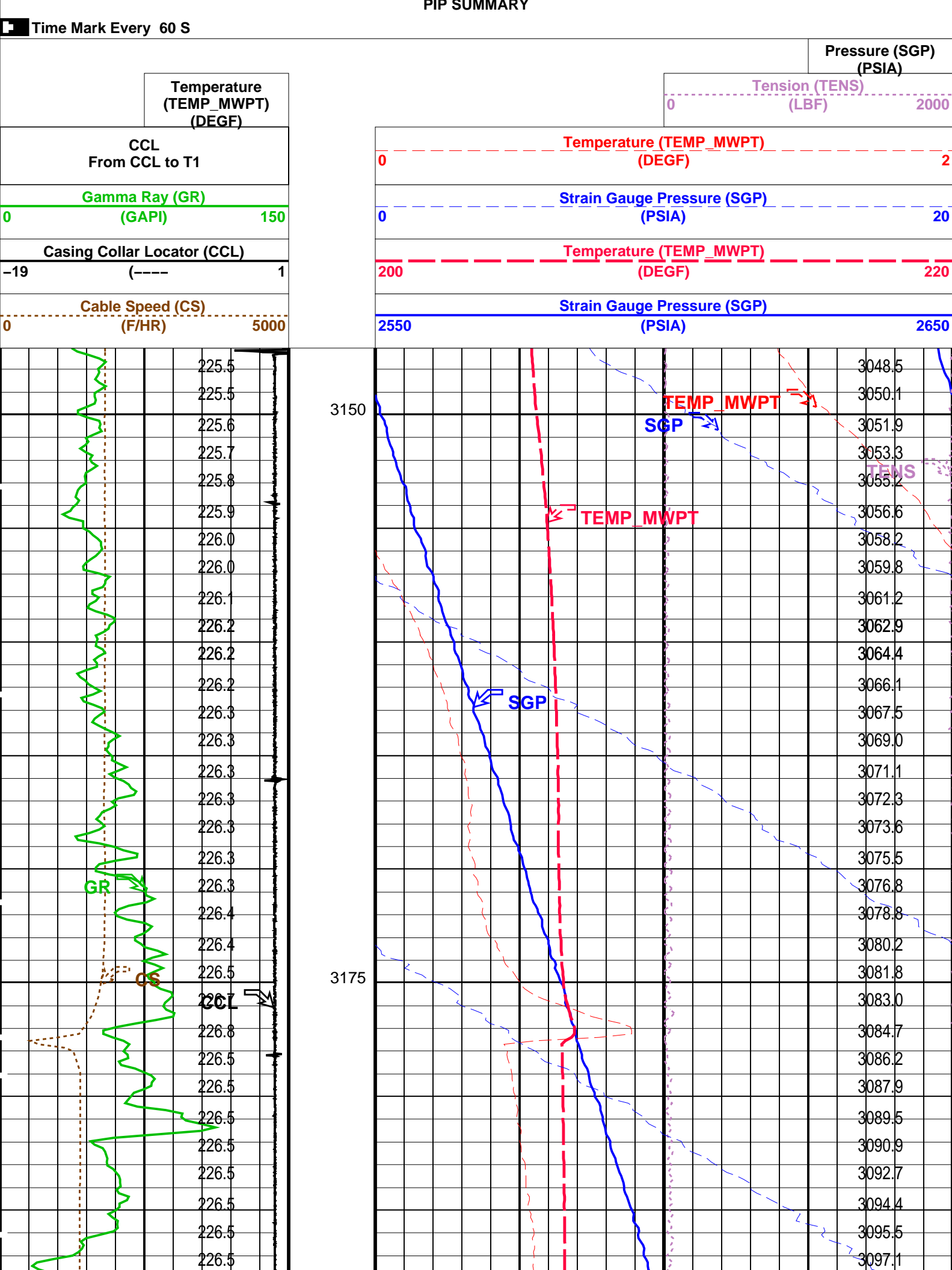
SRPC-3546-Q1\_2008\_OP15

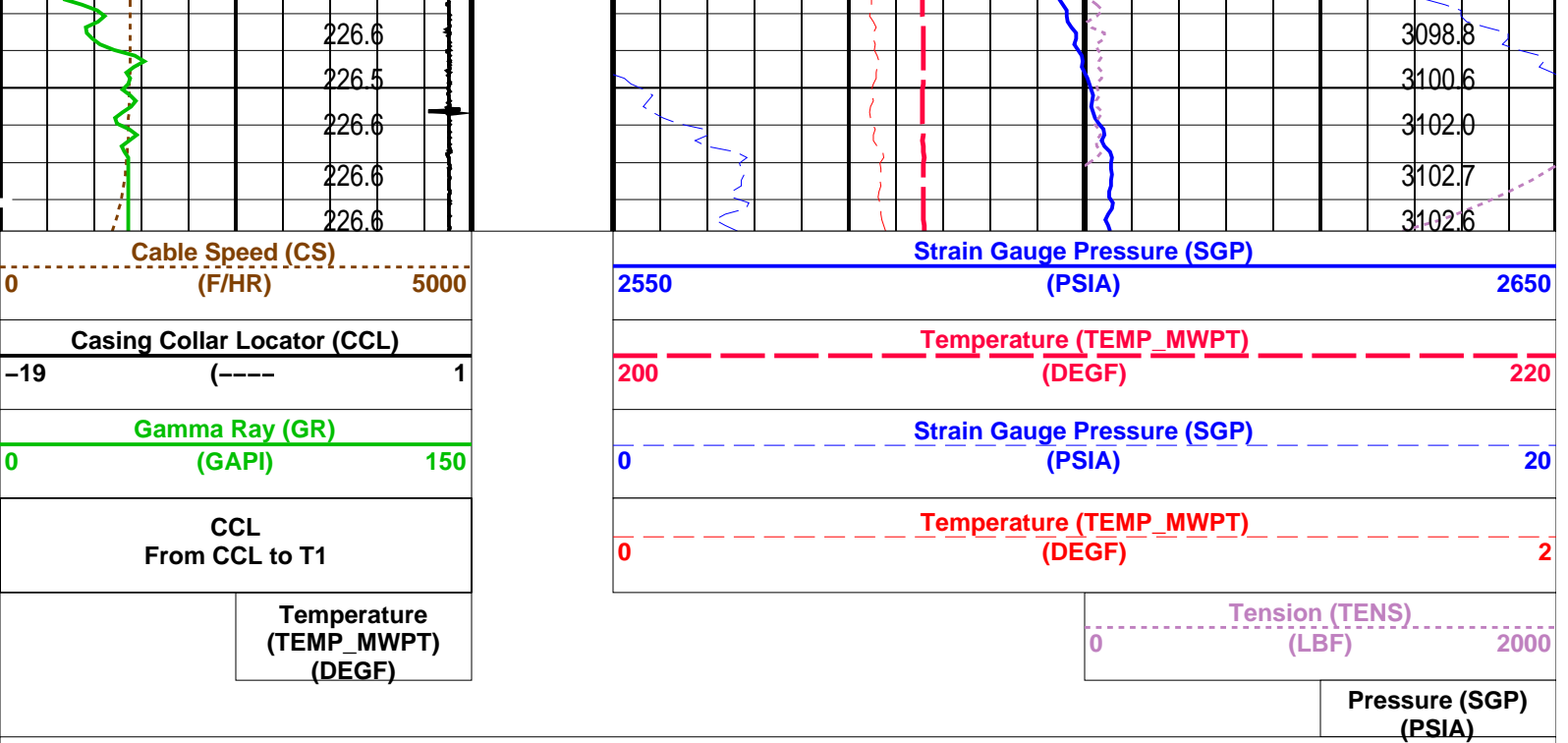
MWPT-CA

SRPC-3546-Q1\_2008\_OP15

MWGT-AA

SRPC-3546-Q1\_2008\_OP15





PIP SUMMARY			
Time Mark Every 60 S			
Parameters			
DLIS Name	Description	Value	
MWPT-CA: 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
Format: MWP Vertical Scale: 1:200		Graphics File Created: 13-Jul-2008 11:59	
OP System Version: 15C0-309			
MCM			
MWP_GUN	SRPC-3546-Q1_2008_OP15	MWPT-CA	SRPC-3546-Q1_2008_OP15
MWGT-AA	SRPC-3546-Q1_2008_OP15		
Output DLIS Files			
DEFAULT	PERFO_007LUP	FN:6 PRODUCER	13-Jul-2008 11:59



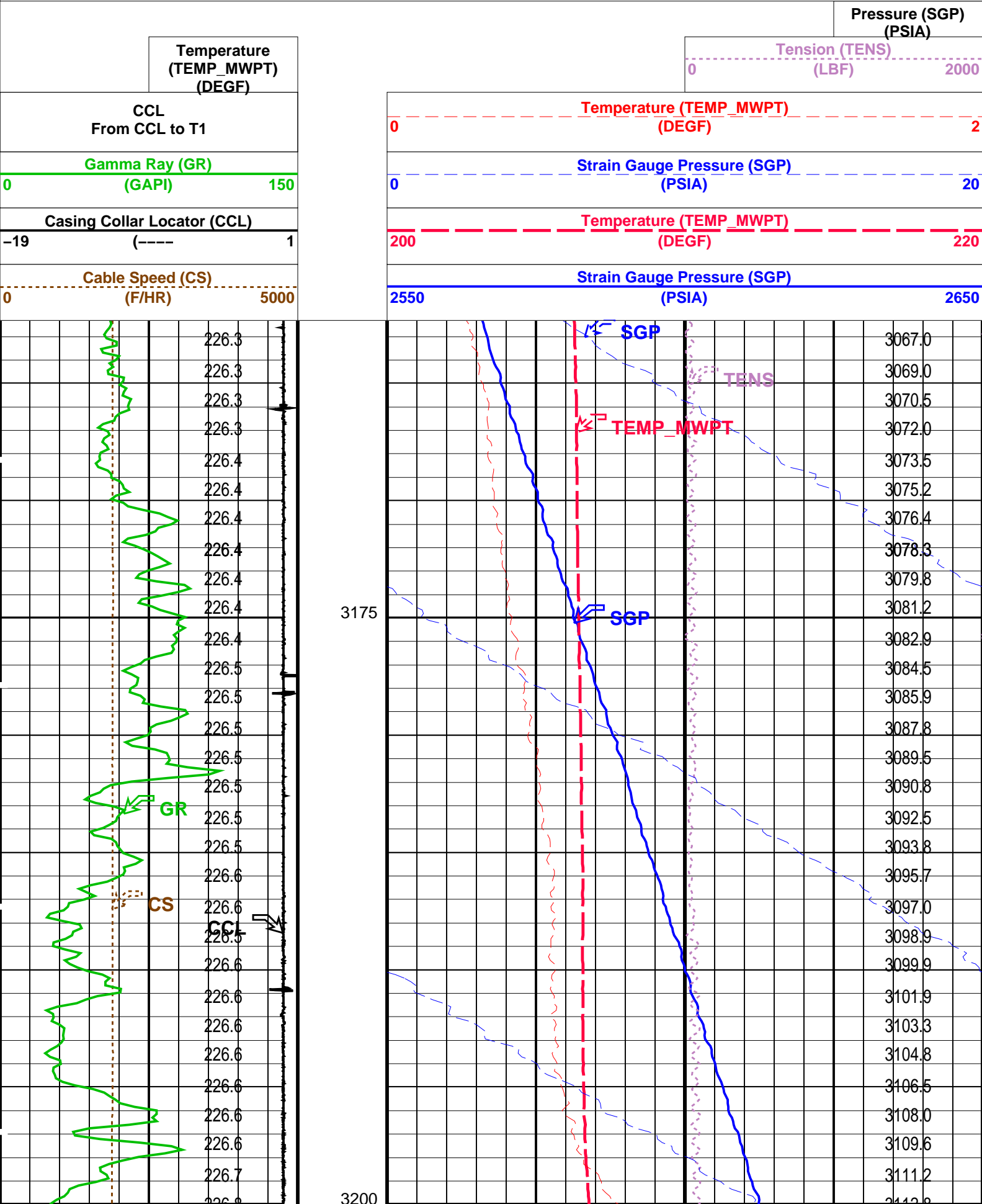
Correlation Pass

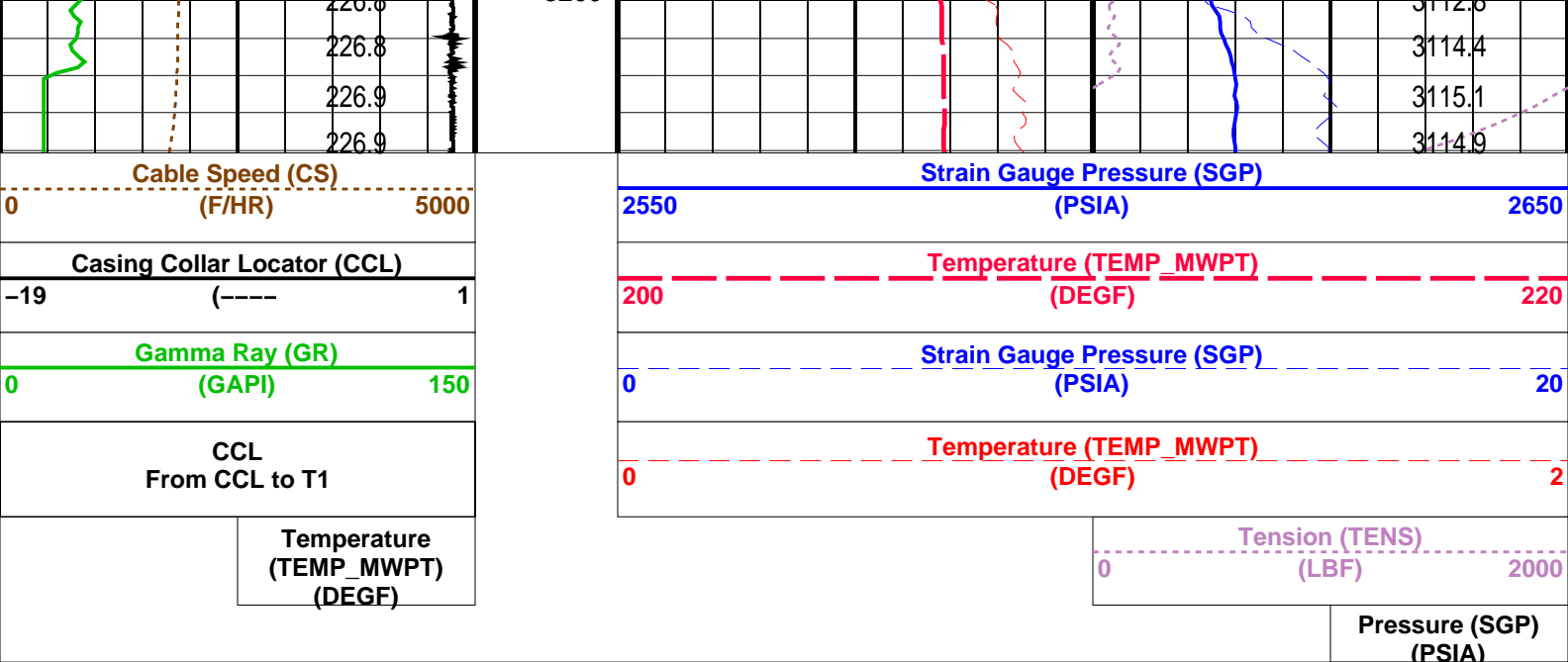
MAXIS Field Log

Company: Esso Australia Pty Ltd.					Well: A-4c	
Output DLIS Files						
DEFAULT	PERFO_006LUP	FN:5	PRODUCER	13-Jul-2008 11:53	3204.1 M	3162.3 M
OP System Version: 15C0-309						
MCM						

PIP SUMMARY

Time Mark Every 60 S





### PIP SUMMARY

Time Mark Every 60 S

### Parameters

DLIS Name	Description	Value
MWPT-CA: 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

Format: MWP Vertical Scale: 1:200

Graphics File Created: 13-Jul-2008 11:53

### OP System Version: 15C0-309

MCM

MWP_GUN	SRPC-3546-Q1_2008_OP15	MWPT-CA	SRPC-3546-Q1_2008_OP15
MWGT-AA	SRPC-3546-Q1_2008_OP15		

### Output DLIS Files

DEFAULT	PERFO_006LUP	FN:5	PRODUCER	13-Jul-2008 11:53
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Company: **Esso Australia Pty Ltd**

**Schlumberger**

Well: **FTA-A4c**  
 Field: **Fortescue**  
 Rig: **Crane/Prod 4**  
 Country: **Australia**

MWPT 2-1/8" Powerjet Perforation  
 7" Posiset Plug  
 Record