



Company: Esso Australia Pty Ltd.

Well: W-18a
Field: West Kingfish
Rig : Prod4 / Crane

Country: Australia

2 1/8" Phased Powerjet
Mwpt Perforation Record
7" Mpbp Plug Setting Record

Rig : Prod4 / Crane
Field: West Kingfish
Location: Gippsland
Well: W-18a
Company: Esso Australia Pty Ltd.

LOCATION	
Gippsland Basin Bass Strait	Elev.: K.B. 33.43 m G.L. -76.13 m D.F. 33.43 m
Permanent Datum: Log Measured From:	M.S.L. D.F.
Drilling Measured From:	D.F.

State: Victoria	Max. Well Deviation 36 deg	Longitude 148 06'15.1"E	Latitude 038 35'40.7"S
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Logging Date	4-Nov-2008		
Run Number	1 thru 5		
Depth Driller	2642 m		
Schlumberger Depth	2638 m		
Bottom Log Interval	2638 m		
Top Log Interval	2575 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level	220 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	11.7 m		
To	2696.6 m		
Maximum Recorded Temperatures	221 degF		
Logger On Bottom	4-Nov-2008		15:00
Unit Number	889	Prod4 / Ausl	
Recorded By	G Wright,S Gilbert.		
Witnessed By	G Rimmer,D Madden.		

PVT DATA			Run 1
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	36 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: 3-NOV-2008 17:01:24

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-EB Serial Number: 6373 Calibration Date: 04-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: 04-Nov-2008 Calibrator Serial Number: 1174 Calibration Gain: 0.90 Calibration Offset: -115.00	Type: 2-32ZT Serial Number: 208196 Length: 4100 M Conveyance Method: Wireline Rig Type: Rigless

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Run Number:	1

Depth Control Remarks





















1. IDW-EB 6373 used as primary depth control. 2. Z-Chart as back-up.

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: None

REMARKS: RUN NUMBER 1
Log correlated to Petrophysical Analysis composite supplied with program.
Maximum well deviation = 36 degree's at 1282m MDKB.
This well was perforated with a 2 1/8" 45 deg phased powerjet gun over the interval 2623m to 2624.5m MDKB
Set a 7" MPBT plug with top of seal @ 2630m MDKB. Dump approx 1 m of cement on top .
HUD:
Gun # 1
Top Shot @ 2623m MDKB Berfor Gun SBHT: 224degf SBHP: 3107.00psia
CCL to Top Shot = 3.5m After Gun SBHT: 225degf SBHP: 3107.86 psia

CCL Stop Depth = 2619.5 m MDKB					
CCL to Bottom of Dummy Plug = 3.6m					
Plug # 1					
Top of Seal @ 2630m MDKB					
CCL to Top of Seal = 7m					
CCL Stop Depth = 2623m MDKB					
CCL to Bottom of Dump Bailer = 12m					
Crew : J Annear,J Light. (Day's)					
N Simmon , D Halstead (Night's)					
RUN 1 SERVICE ORDER #: AUSL08602241 PROGRAM VERSION: 16C0-147 FLUID LEVEL: 220 m			RUN 2		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1 SURFACE EQUIPMENT MWPM-AA 3000			RUN 2 SURFACE EQUIPMENT MPBM 81		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
AH-SWBS-B 789		12.39	AH-SWBS-B 785		13.84
AH-SWBS-B 788		11.70	AH-SWBS-B 786		13.15
AH-SWBS-B 787		11.01	AH-SWBS-B 787		12.47
AH-SWBS-B 786		10.33	AH-SWBS-B 788		11.78
AH-SWBS-B 785		9.64	AH-SWBS-B 789		11.10
MH-SWHS-A 759		8.96	MH-SWHA-A 759		10.41
MWPG-AA 24029 MWGH-AA 19		8.63	CCL-L 283		10.07
MWPG GR		8.53	MPSU-CA 1102		9.61
MWPH-AA 11 MWPS-AA 11		7.55	CCL Tachometer Cable Cur Head Volt Tension		4.73
CCL SMWP Pres SMWP Temp Tension		TOOL ZERO	CCL Tachometer Cable Cur Head Volt Tension		TOOL ZERO

Log Pass (up)	4-Nov-2008	21:32	000:49	2547.9	-	-4.9	PERFO_041LUP
Simulated Log	4-Nov-2008	23:12	000:06				CCL_044LUP
Simulated Log	4-Nov-2008	23:18	000:02				CCL_045LUP
Simulated Log	4-Nov-2008	23:20	000:09				CCL_046LUP
Log Pass (down)	5-Nov-2008	0:27	000:01	1.2	-	13.4	CCL_048LDP
Log Pass (down)	5-Nov-2008	0:28	000:29	25.8	-	2602.8	CCL_049LDP
Log Pass (up)	5-Nov-2008	0:57	000:01	2605.0	-	2594.8	CCL_050LUP
Log Pass (up)	5-Nov-2008	1:04	000:04	2603.3	-	2573.1	CCL_052LUP
Simulated Log	5-Nov-2008	1:19	000:26				CCL_054LUP
Log Pass (up)	5-Nov-2008	1:46	000:06	2623.0	-	2570.1	CCL_055LUP
Log Pass (up)	5-Nov-2008	4:00	000:08	2620.2	-	2570.1	PERFO_059LUP
Log Pass (up)	5-Nov-2008	4:12	000:31	2519.9	-	-7.2	PERFO_060LUP
Log Pass (down)	5-Nov-2008	5:07	000:39	-2.1	-	2573.0	PERFO_061LDP
Log Pass (up)	5-Nov-2008	5:48	000:10	2620.4	-	2564.0	PERFO_062LUP

Schlumberger

Cement Dump Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_062LUP FN:61 PRODUCER 05-Nov-2008 05:48

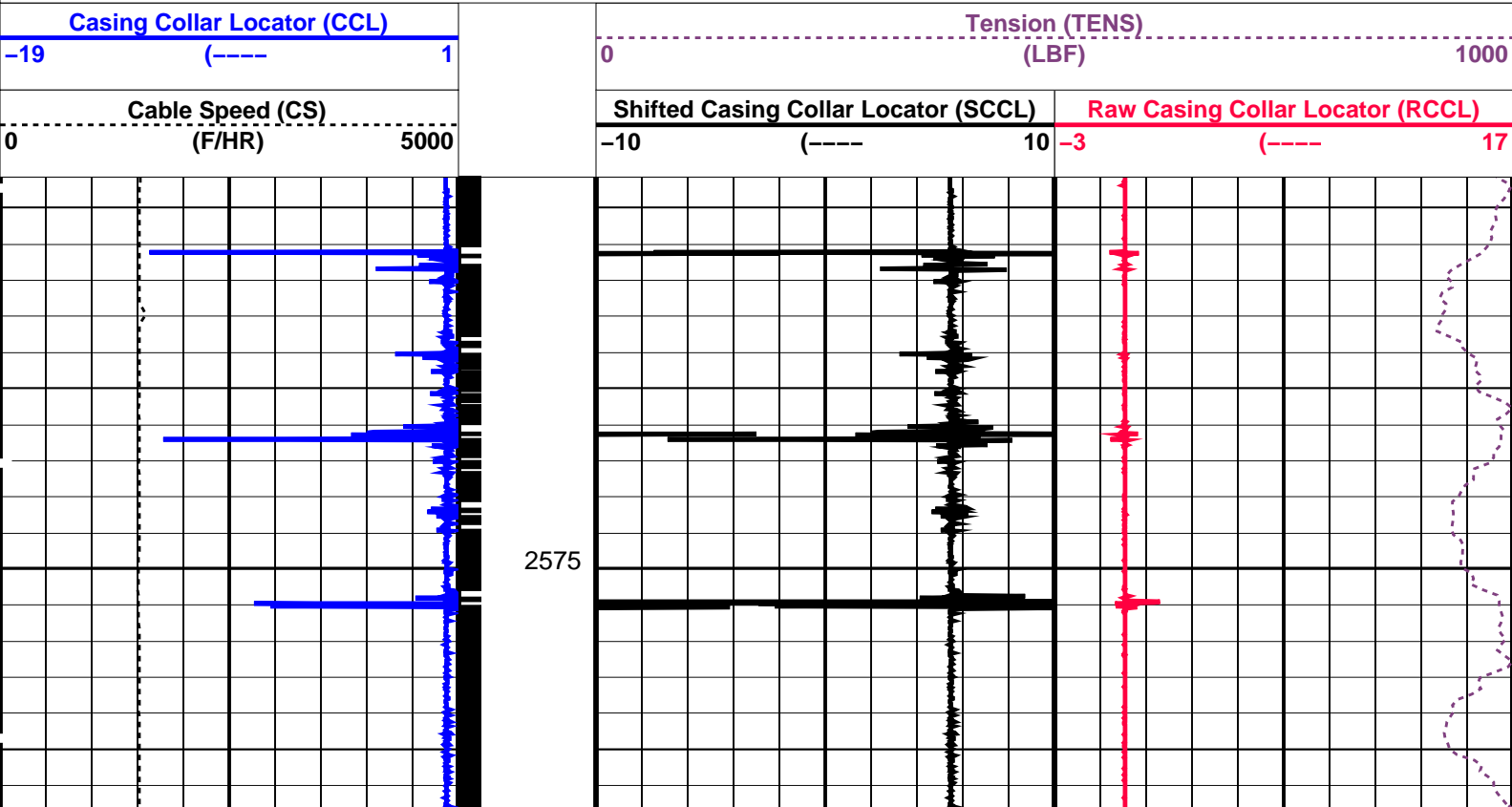
OP System Version: 16C0-147
MCM

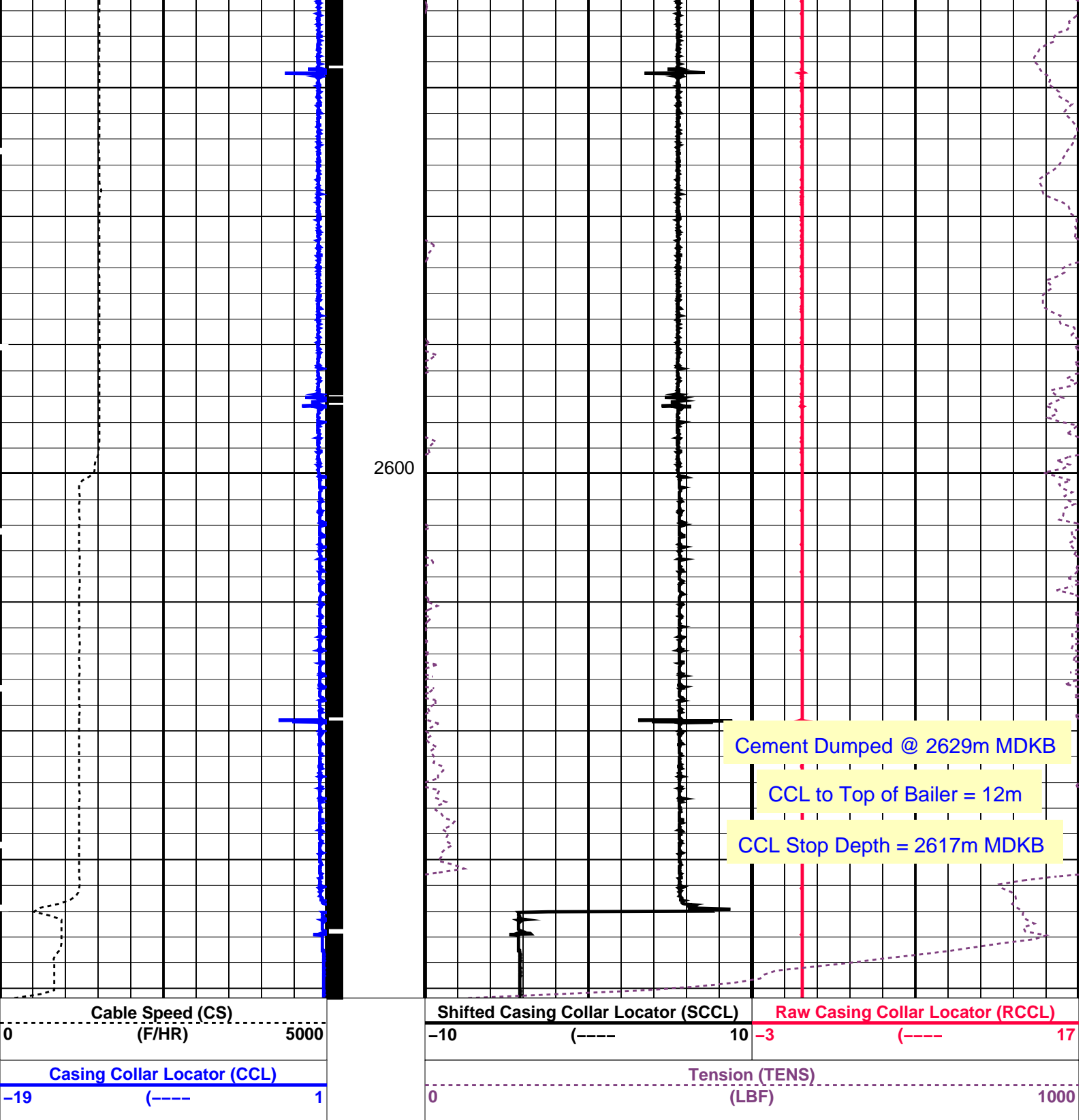
SHM_GUN 16C0-147 CCL-L 16C0-147

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

Time Mark Every 60 S

Casing Collars

Parameters

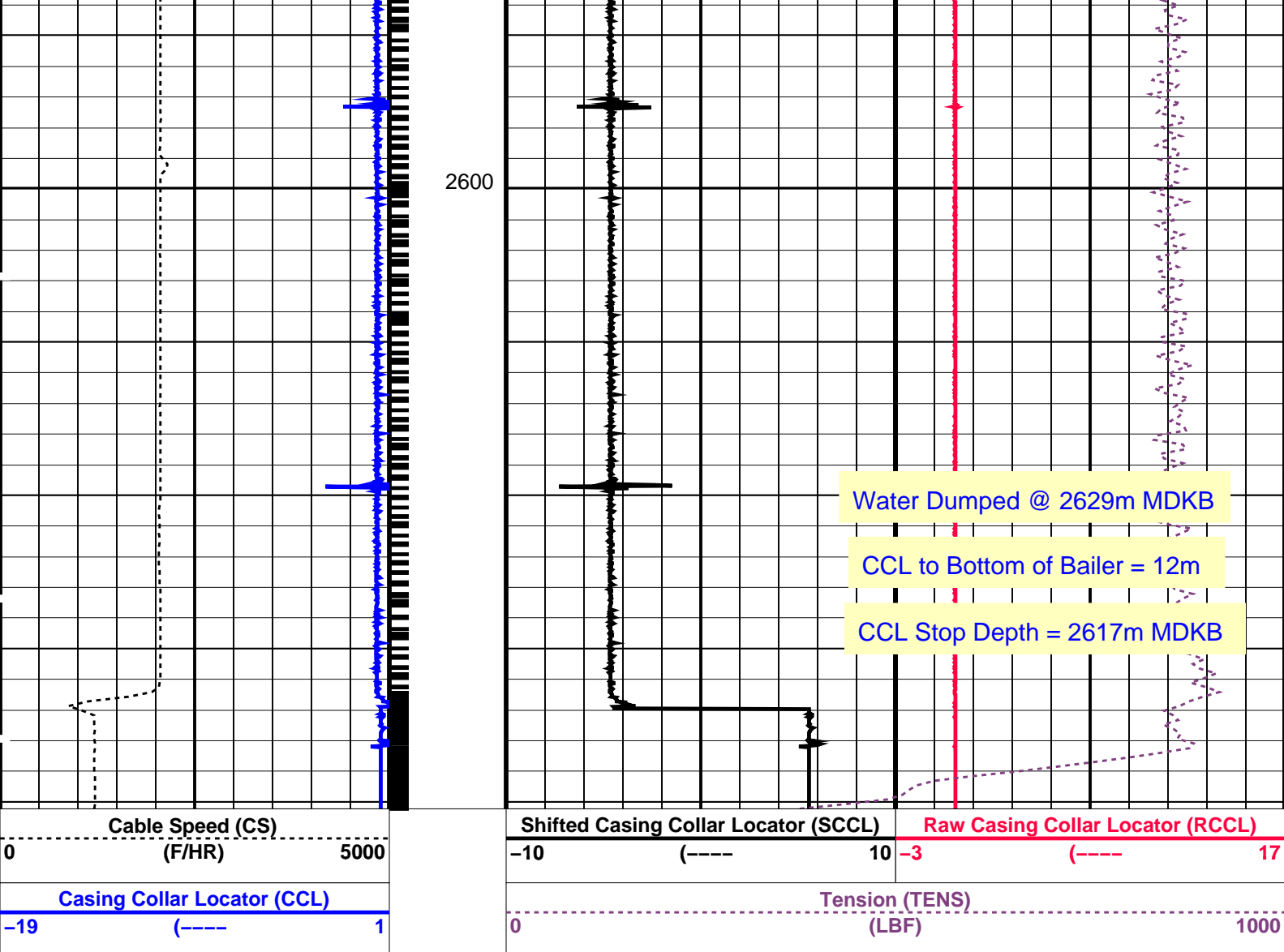
DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 05-Nov-2008 05:48

OP System Version: 16C0-147

MCM



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	0.3 V

Format: PERFO_1 Vertical Scale: 1:200

Graphics File Created: 05-Nov-2008 04:00

OP System Version: 16C0-147

MCM

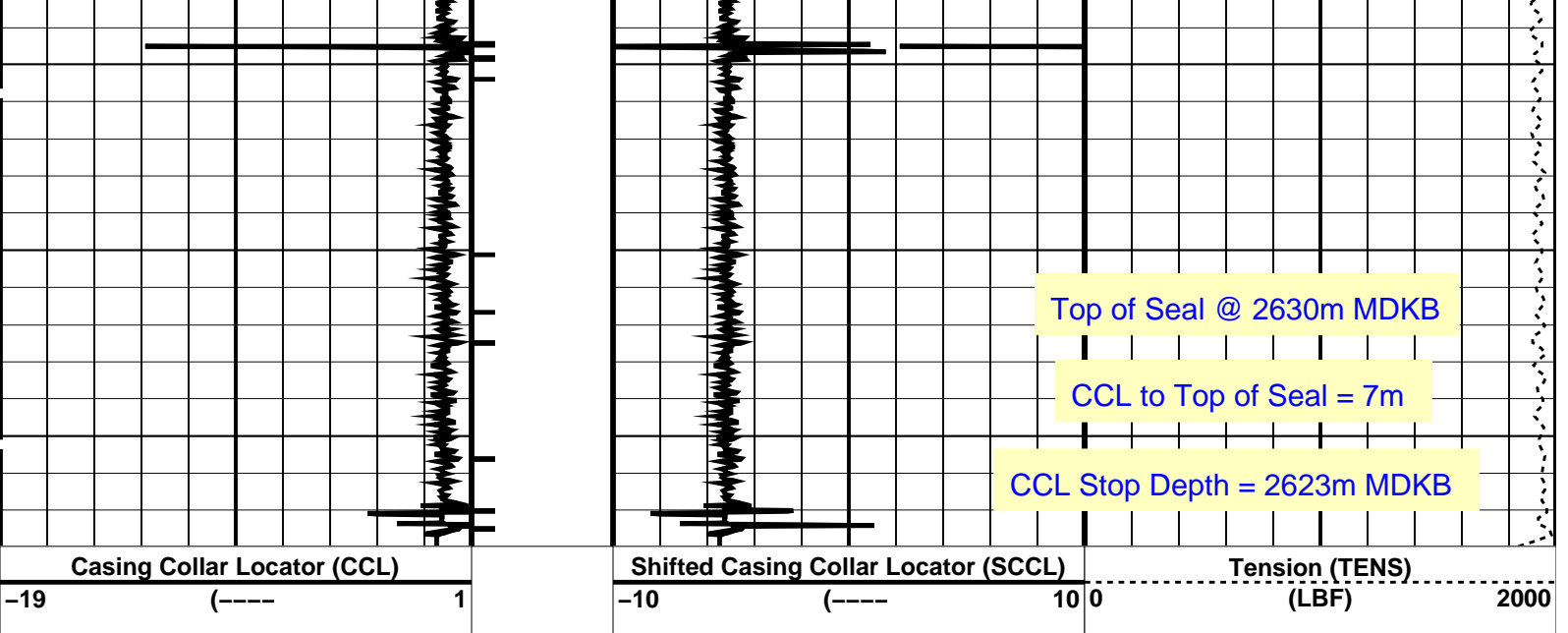
SHM_GUN 16C0-147 CCL-L 16C0-147

Output DLIS Files

DEFAULT PERFO_059LUP FN:58 PRODUCER 05-Nov-2008 04:00

Schlumberger

Log Away From Plug Setting



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	0.3 V

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 05-Nov-2008 01:46

OP System Version: 16C0-147

MCM

MPEX-DA	16C0-147	MPSU-CA	16C0-147
CCL-L	16C0-147		

Output DLIS Files

DEFAULT	CCL_055LUP	FN:54	PRODUCER	05-Nov-2008 01:46
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Schlumberger

7" Posiset Plug Setting Record
Top of Seal @ 2630m MDKB

MAXIS Field Log

Output DLIS Files

DEFAULT	CCL_054LUP	FN:53	PRODUCER	05-Nov-2008 01:19
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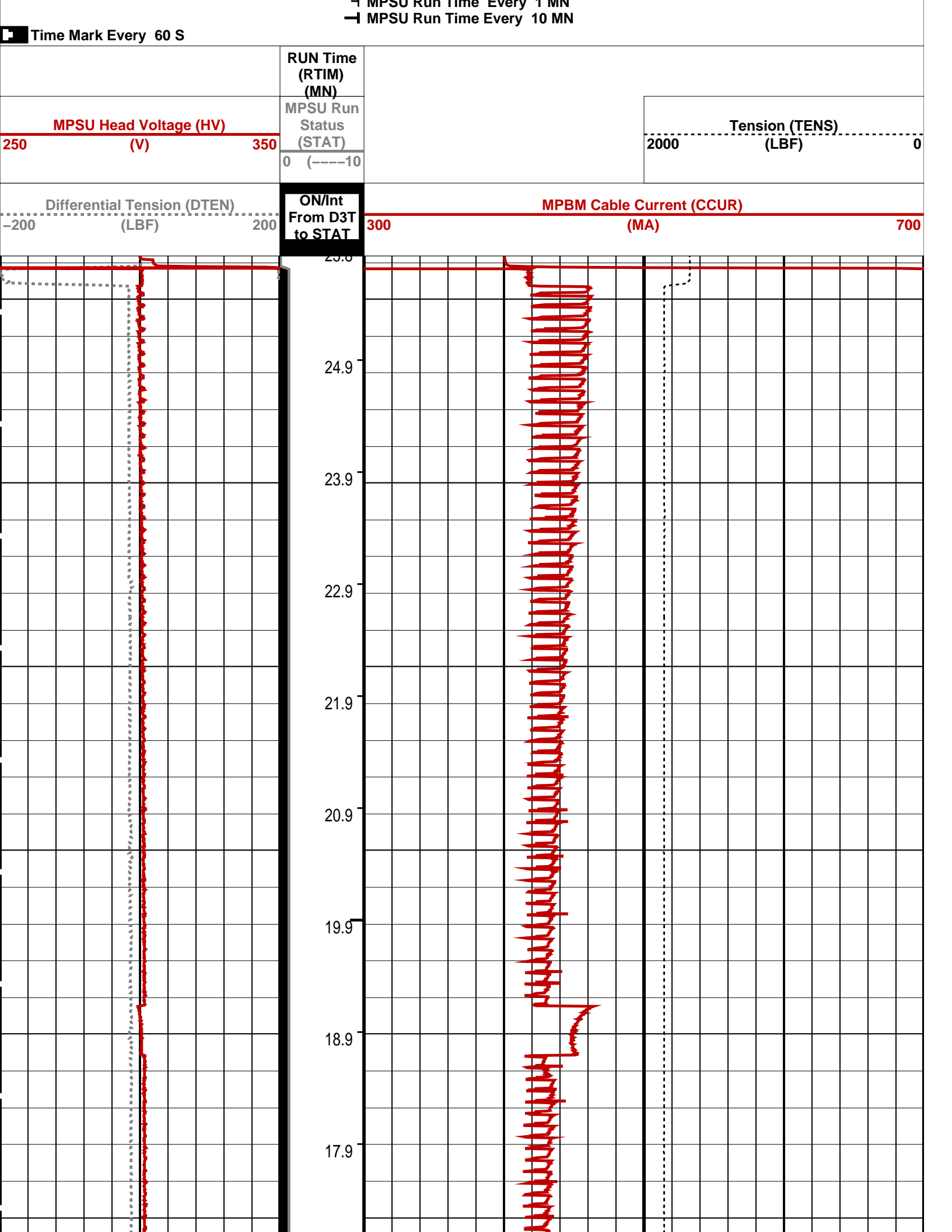
OP System Version: 16C0-147

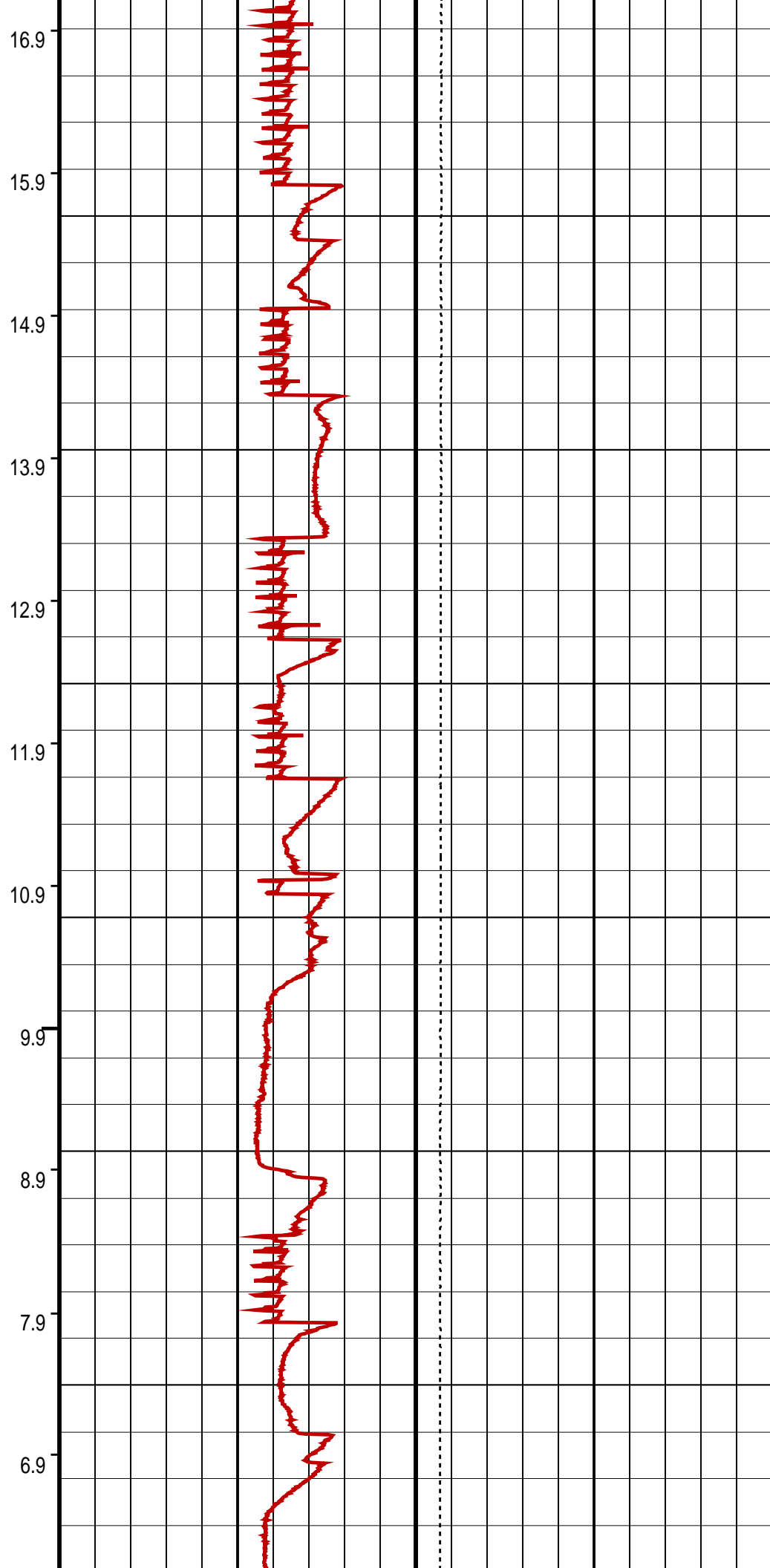
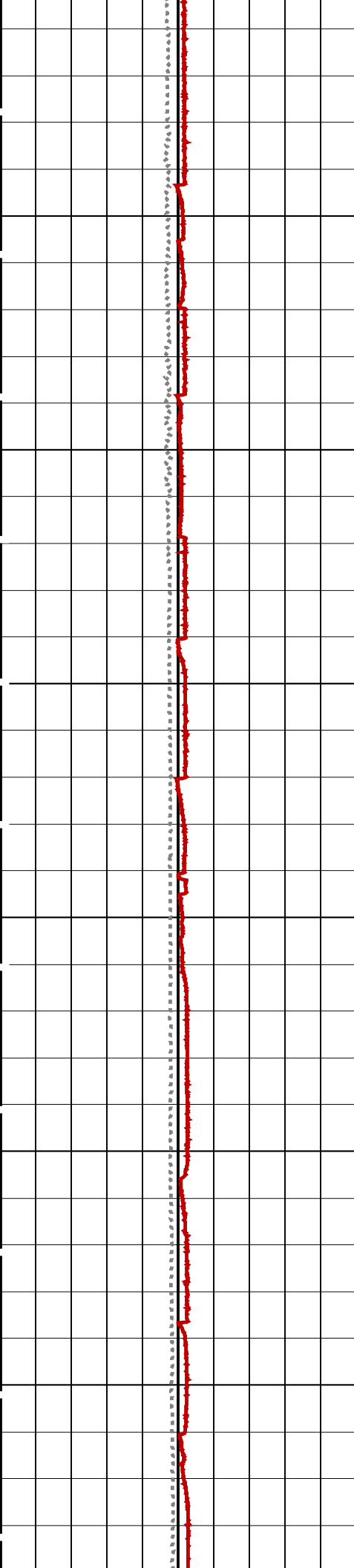
MCM

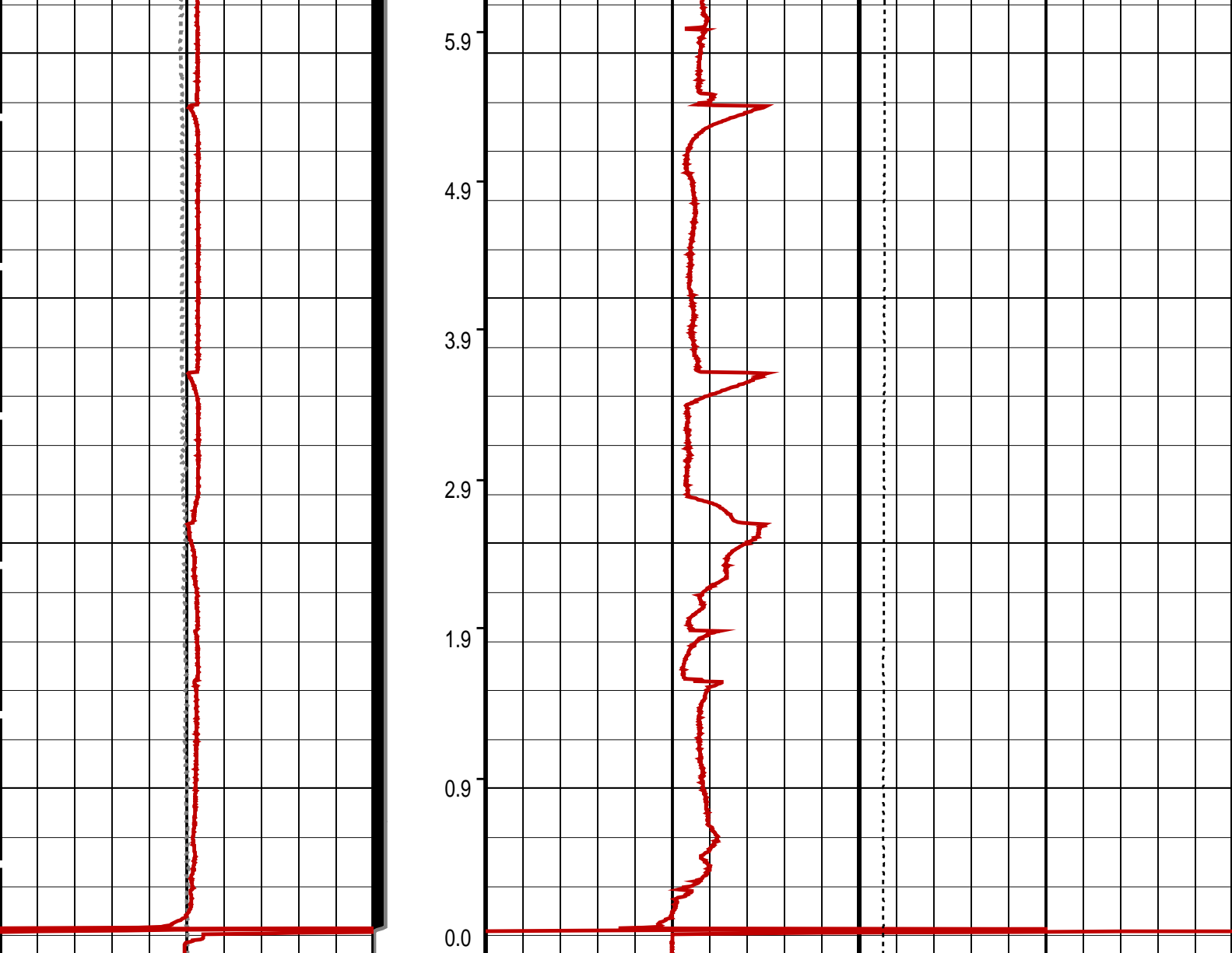
MPEX-DA	16C0-147	MPSU-CA	16C0-147
CCL-L	16C0-147		

PIP SUMMARY

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)
250 350	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-CA: MECHANICAL PLUGBACK SETTING UNIT IPUMP	Intensifier Pump	TRUE

Format: MPBT Vertical Scale: 1:600 Graphics File Created: 05-Nov-2008 01:19

OP System Version: 16C0-147
MCM

MPEX-DA	16C0-147	MPSU-CA	16C0-147
CCI-L	16C0-147		

Output DLIS Files

DEFAULT

CCL_054LUP

FN:53

PRODUCER

05-Nov-2008 01:19

Schlumberger

Plug Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT

CCL_052LUP

FN:51

PRODUCER

05-Nov-2008 01:04

OP System Version: 16C0-147

MCM

MPX-DA
CCL-L16C0-147
16C0-147

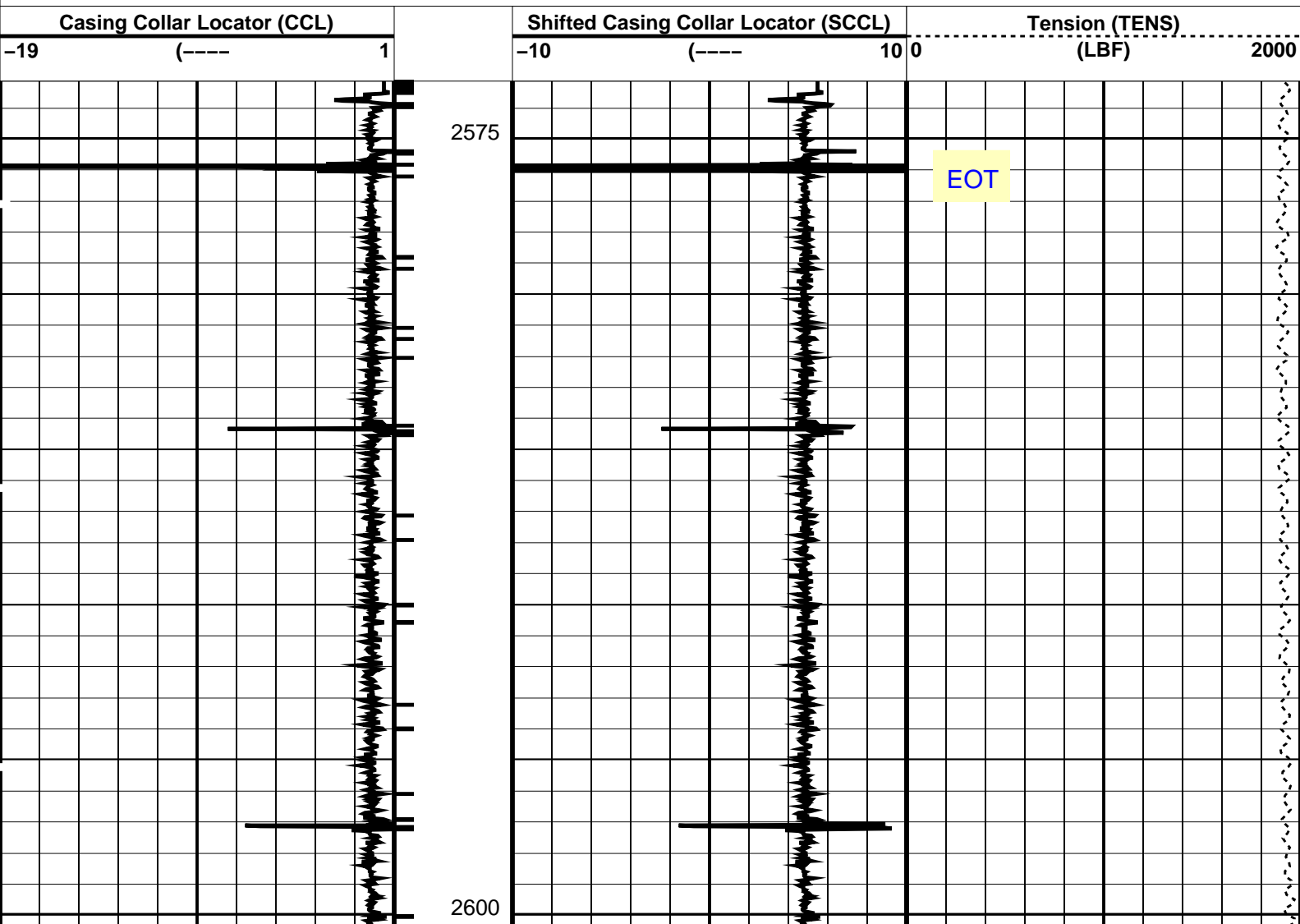
MPSU-CA

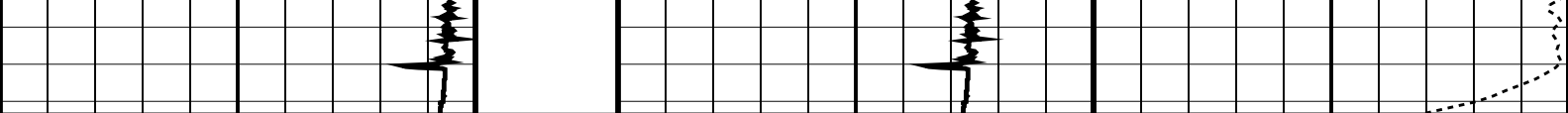
16C0-147

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





Casing Collar Locator (CCL)		Shifted Casing Collar Locator (SCCL)		Tension (TENS)	
-19	(----	1	-10	(----	10 0
				(LBF)	2000

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		0.3 V	

Format: PERFO	Vertical Scale: 1:200	Graphics File Created: 05-Nov-2008 01:04
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OP System Version: 16C0-147			
MCM			
MPEX-DA	16C0-147	MPSU-CA	16C0-147
CCL-L	16C0-147		

Output DLIS Files					
DEFAULT	CCL_052LUP	FN:51	PRODUCER	05-Nov-2008 01:04	

Schlumberger					
2.13" Dummy Plug Pass					
MAXIS Field Log					

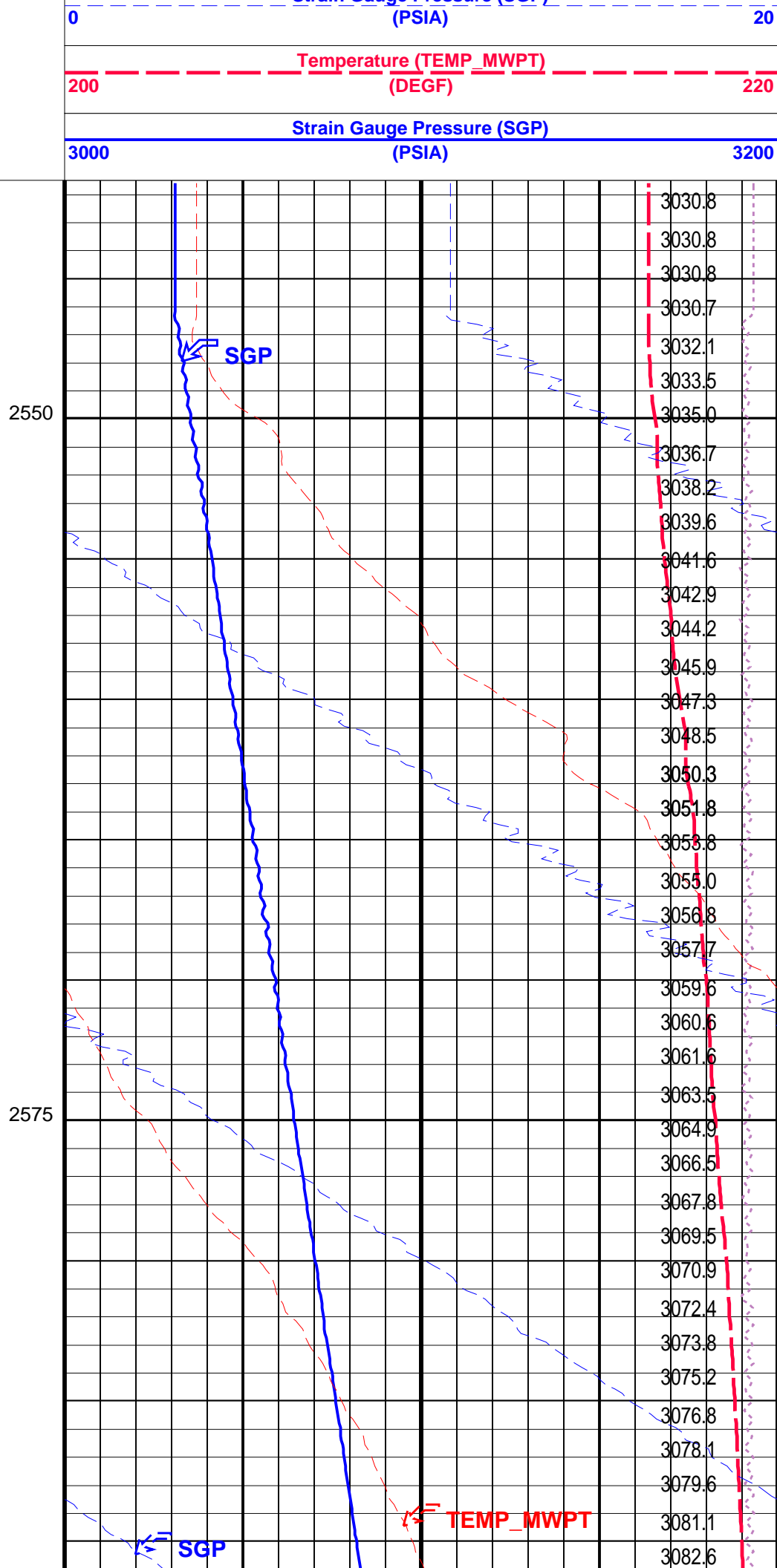
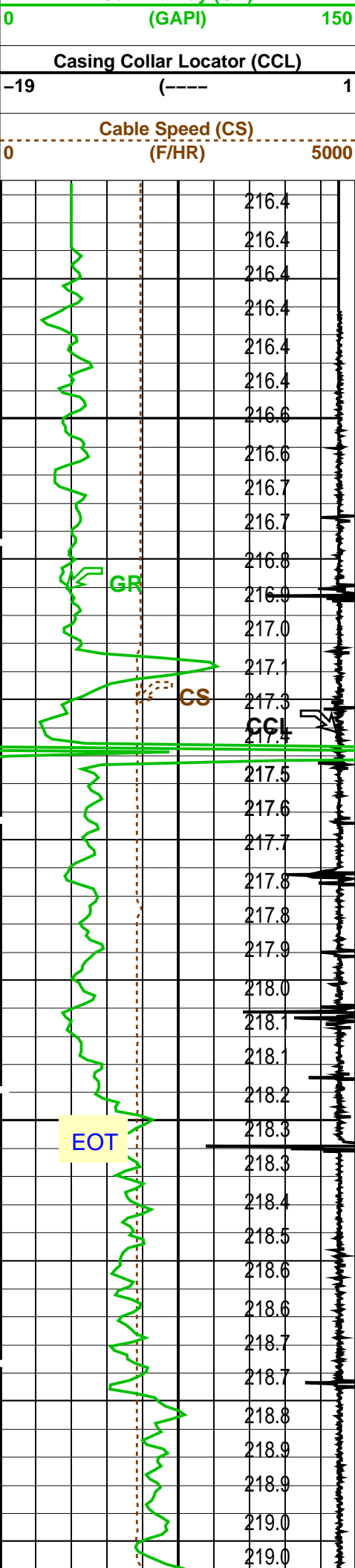
Company: Esso Australia Pty Ltd.	Well: W-18a
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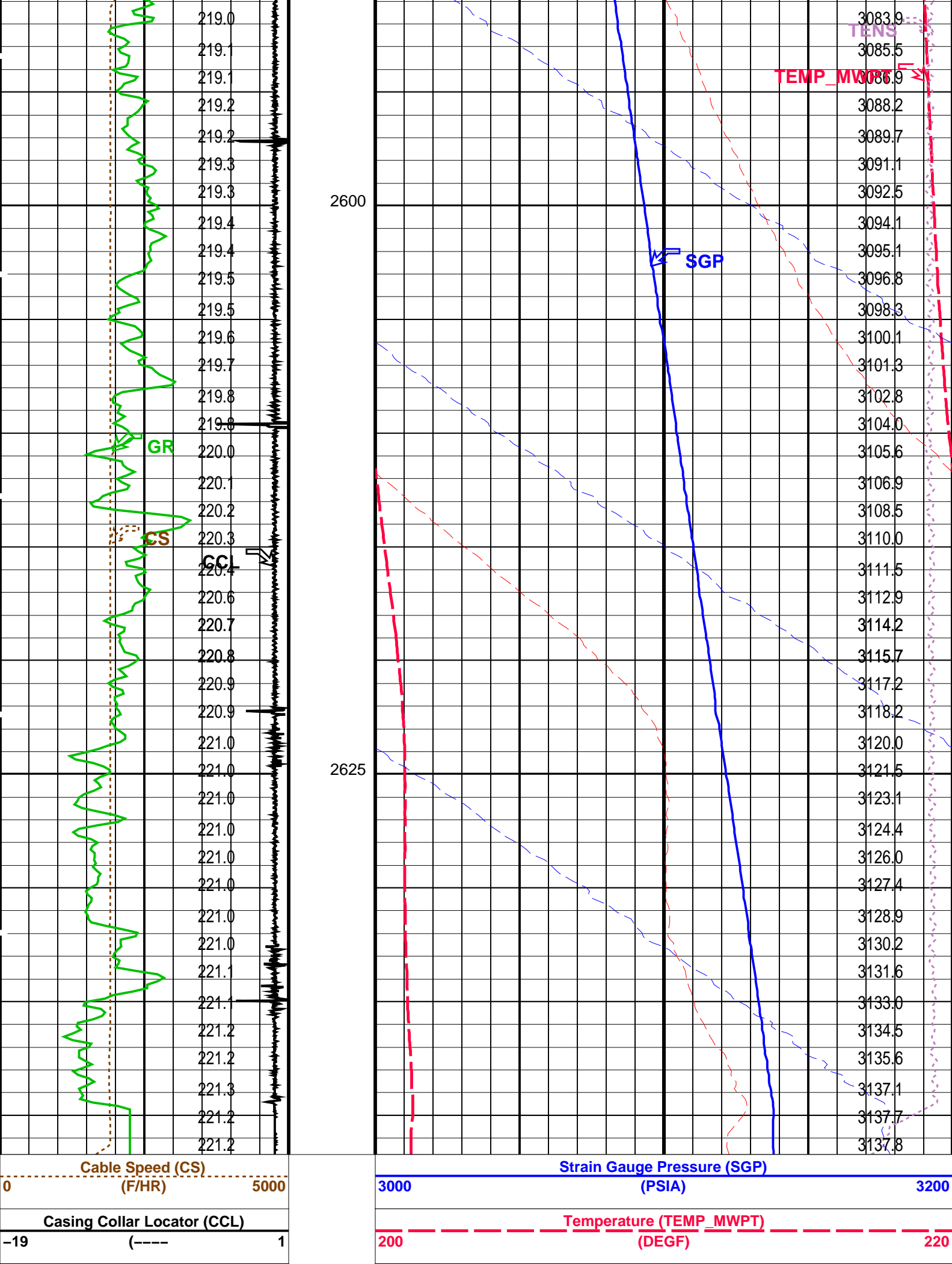
Input DLIS Files					
DEFAULT	PERFO_039LUP	FN:38	PRODUCER	04-Nov-2008 21:19	2643.4 M 2545.5 M
Output DLIS Files					
DEFAULT	PERFO_040PUP	FN:39	PRODUCER	04-Nov-2008 21:31	2641.7 M 2541.4 M

OP System Version: 16C0-147					
MCM					
MWPT-CA	16C0-147	MWGT-AA	16C0-147		

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
Gamma Ray (GR)		Strain Gauge Pressure (SGP)	





Gamma Ray (GR) (GAPI)150		Strain Gauge Pressure (SGP) (PSIA)20	
CCL From CCL to T1		Temperature (TEMP_MWPT) (DEGF)2	
Temperature (TEMP_MWPT) (DEGF)		Tension (TENS) (LBF)2000	
		Pressure (SGP) (PSIA)	

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
System and Miscellaneous		
DO	Depth Offset for Playback	-1.7 M
PP	Playback Processing	NORMAL

Format: MWP Vertical Scale: 1:200 Graphics File Created: 04-Nov-2008 21:31

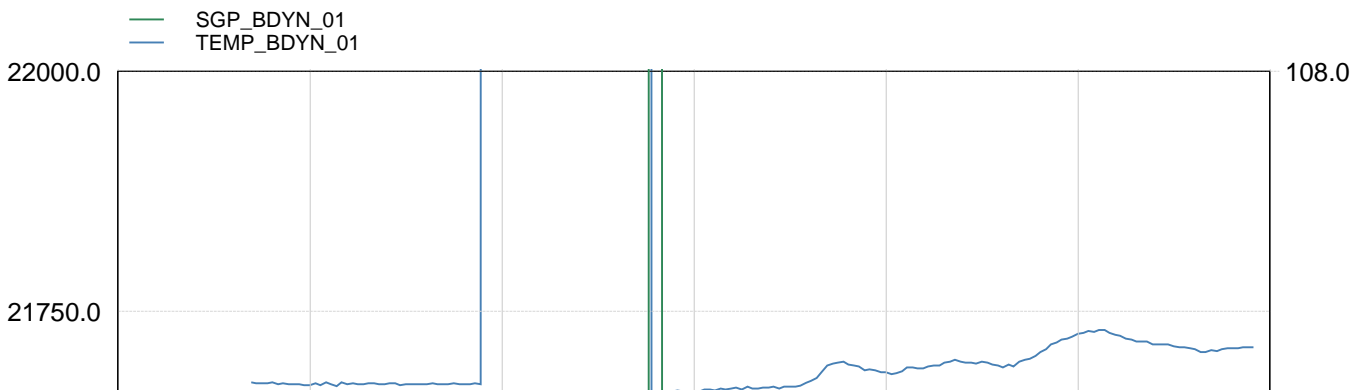
OP System Version: 16C0-147			
MCM			
MWPT-CA	16C0-147	MWGT-AA	16C0-147

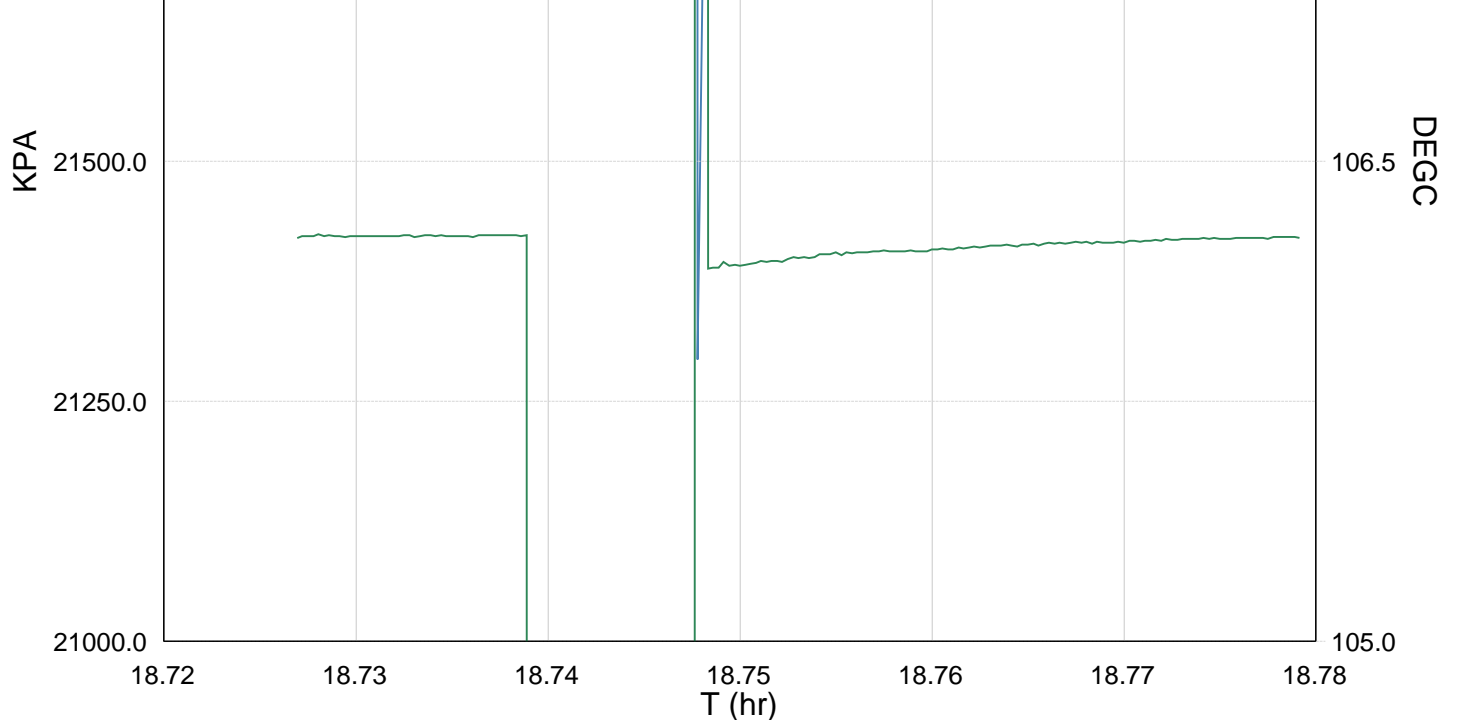
Input DLIS Files					
DEFAULT	PERFO_039LUP	FN:38	PRODUCER	04-Nov-2008 21:19	2643.4 M 2545.5 M
Output DLIS Files					
DEFAULT	PERFO_040PUP	FN:39	PRODUCER	04-Nov-2008 21:31	



Gun # 1 Fired @
2623m to 2624.5m MDKB

MAXIS Field Log





TIME	KPA	PSIA	DEGF
3000.0	21392.5091	3102.7252	224.3391
3020.0	21422.0189	3107.0053	224.6300
3040.0	21422.3522	3107.0535	224.6431
3060.0	-999999.9999	-905806.3750	762970.9375
3080.0	21395.0176	7620.4072	224.6414
3100.0	21400.3867	3103.8677	224.6714
3120.0	21407.3730	3104.8811	224.7762
3140.0	21413.8415	3105.8192	224.8072
3160.0	21417.7487	3106.3859	224.9784
3180.0	21420.5990	3106.7992	224.8947
3200.0	21422.7122	3107.1057	224.8682
3220.0	21423.6849	3107.2469	224.8867
3240.0	21423.9743	3107.2888	224.9444
3260.0	21426.1374	3107.6024	224.9656
3280.0	21426.4980	3107.6548	225.0501
3300.0	21427.2725	3107.7671	225.0459
3320.0	21427.1523	3107.7496	224.9907
3340.0	21426.8643	3107.7079	225.0589
3360.0	21426.8643	3107.7079	225.3895
3380.0	21427.7188	3107.8320	225.2604
3400.0	21427.9277	3107.8622	225.4064



Gun Shoot Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: W-18a

Output DLIS Files

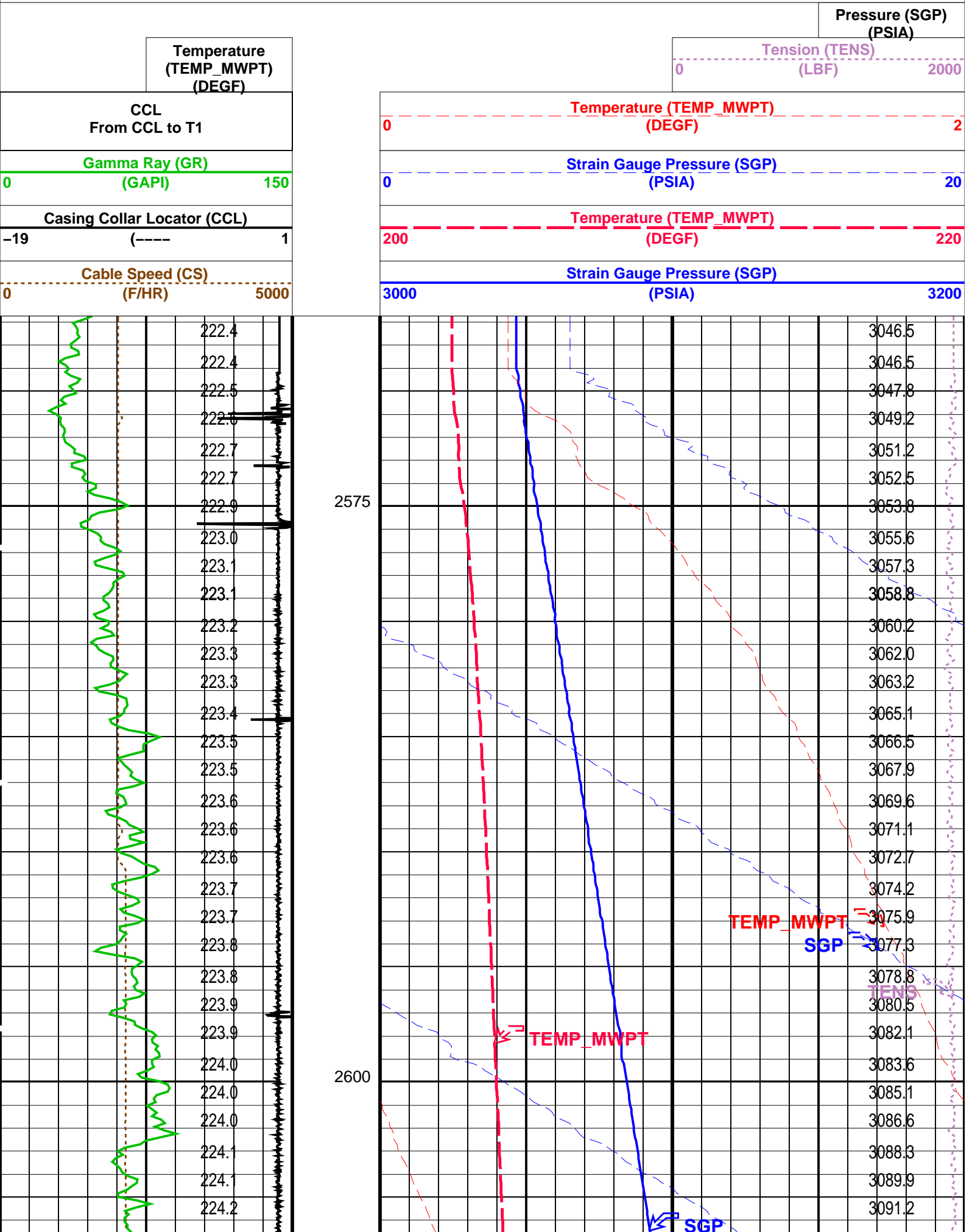
DEFAULT PERFO_034LUP FN:33 PRODUCER 04-Nov-2008 18:37 2623.6 M 2566.7 M

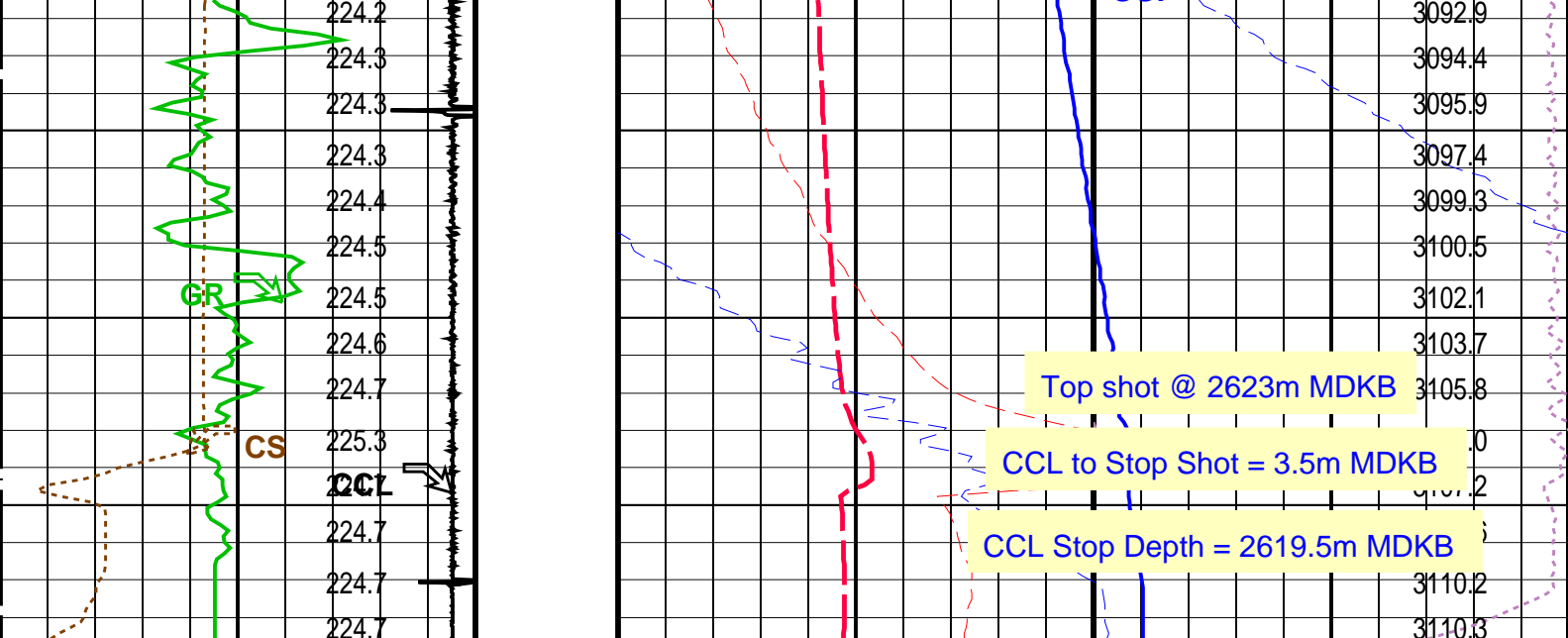
OP System Version: 16C0-147
MCM

MWP_GUN 16C0-147 MWPT-CA 16C0-147
MWGT-AA 16C0-147

PIP SUMMARY

Time Mark Every 60 S





Cable Speed (CS) (F/HR)		5000	Strain Gauge Pressure (SGP) (PSIA)		3200
Casing Collar Locator (CCL) (----		1	Temperature (TEMP_MWPT) (DEGF)		220
Gamma Ray (GR) (GAPI)		150	Strain Gauge Pressure (SGP) (PSIA)		20
CCL From CCL to T1			Temperature (TEMP_MWPT) (DEGF)		2
Temperature (TEMP_MWPT) (DEGF)			Tension (TENS) (LBF)		2000
			Pressure (SGP) (PSIA)		

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: 04-Nov-2008 18:37

OP System Version: 16C0-147			
MCM			
MWP_GUN	16C0-147	MWPT-CA	16C0-147
MWGT-AA	16C0-147		

Output DLIS Files			
DEFAULT	PERFO_034LUP	FN:33	PRODUCER 04-Nov-2008 18:37



Gun Correlation Pass

Company: Esso Australia Pty Ltd.

Well: W-18a

Output DLIS Files

DEFAULT PERFO_033LUP FN:32 PRODUCER 04-Nov-2008 18:28 2614.3 M 2572.2 M

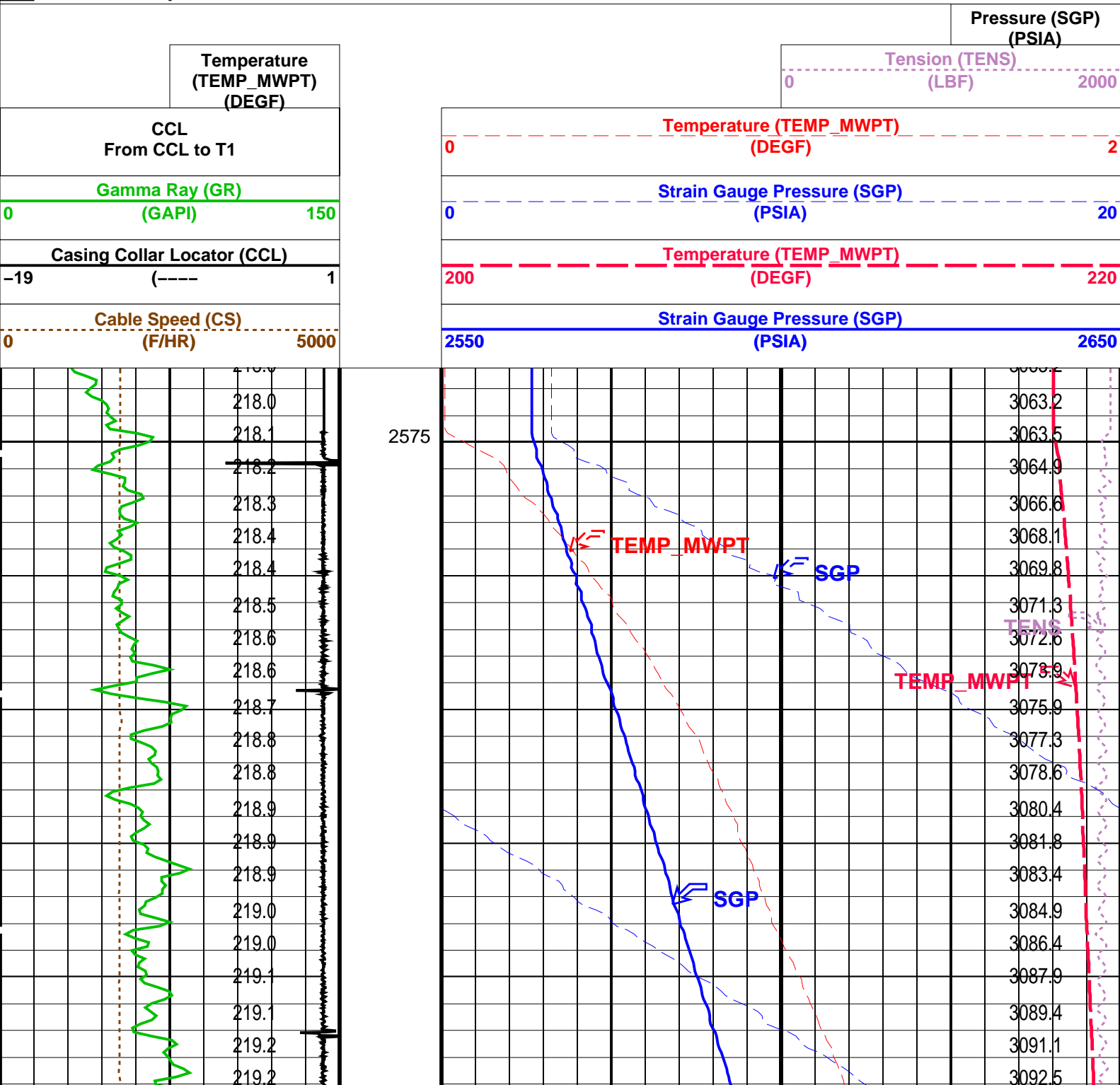
OP System Version: 16C0-147

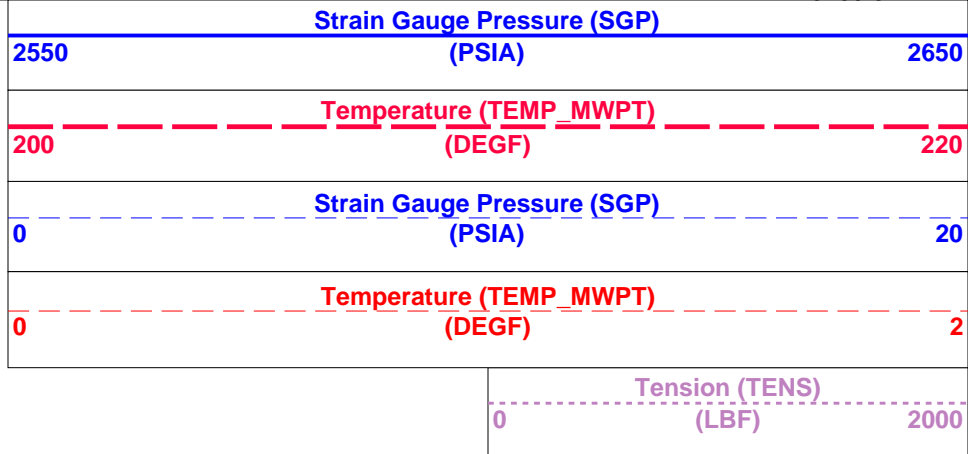
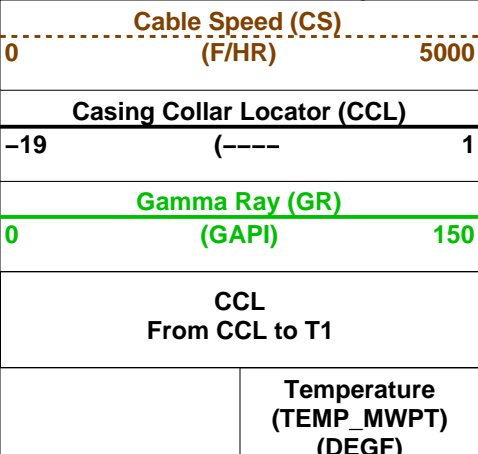
MCM

MWP_GUN 16C0-147 MWPT-CA 16C0-147
MWGT-AA 16C0-147

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: 04-Nov-2008 18:28

OP System Version: 16C0-147

MCM

MWP_GUN	16C0-147	MWPT-CA	16C0-147
MWGT-AA	16C0-147		

Output DLIS Files

DEFAULT	PERFO_033LUP	FN:32	PRODUCER	04-Nov-2008 18:28
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Company: Esso Australia Pty Ltd.

Schlumberger

Well: W-18a
Field: West Kingfish
Rig : Prod4 / Crane
Country: Australia

2 1/8" Phased Powerjet
Mwpt Perforation Record
7" Mpbt Plug Setting Record