

Company: Esso Australia Pty Ltd.

Well: A-22ST1
Field: Bream A
Rig : Prod4 / Crane Country: Australia

2 1/8" Powerjet Perforation
4 1/2"HPI Plug
Setting Record

Prod4 / Crane

Rig :
Field: Bream A
Location: Gippsland
Well: A-22ST1
Company: Esso Australia Pty Ltd.

LOCATION		Gippsland	Elev.:	K.B.	32.82 m
		Basin		G.L.	-59 m
		Bass Strait		D.F.	32.82 m
		Permanent Datum:	M.S.L	Elev.:	0 m
Log Measured From:	D.F	32.8 m	above Perm. Datum		
Drilling Measured From:	D.F				
State : Victoria	Max. Well Deviation 70 deg	Longitude 147 46'15"E	Latitude 038 30'04"S		

Logging Date		23-Jun-2007	
Run Number		1 thru 3	
Depth Driller		3274 m	
Schlumberger Depth		3272 m	
Bottom Log Interval		3272 m	
Top Log Interval		3225 m	
Casing Fluid Type		Production Fluids	
Salinity			
Density			
Fluid Level		1135 m	
BIT/CASING/TUBING STRING			
Bit Size		6.000 in	
From			
To			
Casing/Tubing Size		4.500 in	
Weight		12.6 lbn/ft	
Grade		L-80	
From		2571 m	
To		3334 m	
Maximum Recorded Temperatures		210 degF	
Logger On Bottom	Time	23-Jun-2007	10:15
Unit Number	Location	889	Prod4 / Ausl
Recorded By		G Wright & S Gilbert.	
Witnessed By		B White & B Robinson.	

PVT DATA			Run 1
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation		70 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	Time		
Unit Number	Location		
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 22-JUN-2007 16:58:46

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: 2-23ZT Wheel Correction 1: -2 Wheel Correction 2: -4	Type: PSDS/OSDS Serial Number: 325357 Calibration Date: 10-Jun-2007 Calibrator Serial Number: 1174 Calibration Gain: 0.92 Calibration Offset: 199.00	Type: 2-32ZT Serial Number: 24425 Length: 6473.04 M Conveyance Method: Wireline Rig Type: Offshore_Fixed

Depth Control Parameters

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





















Depth Control Remarks

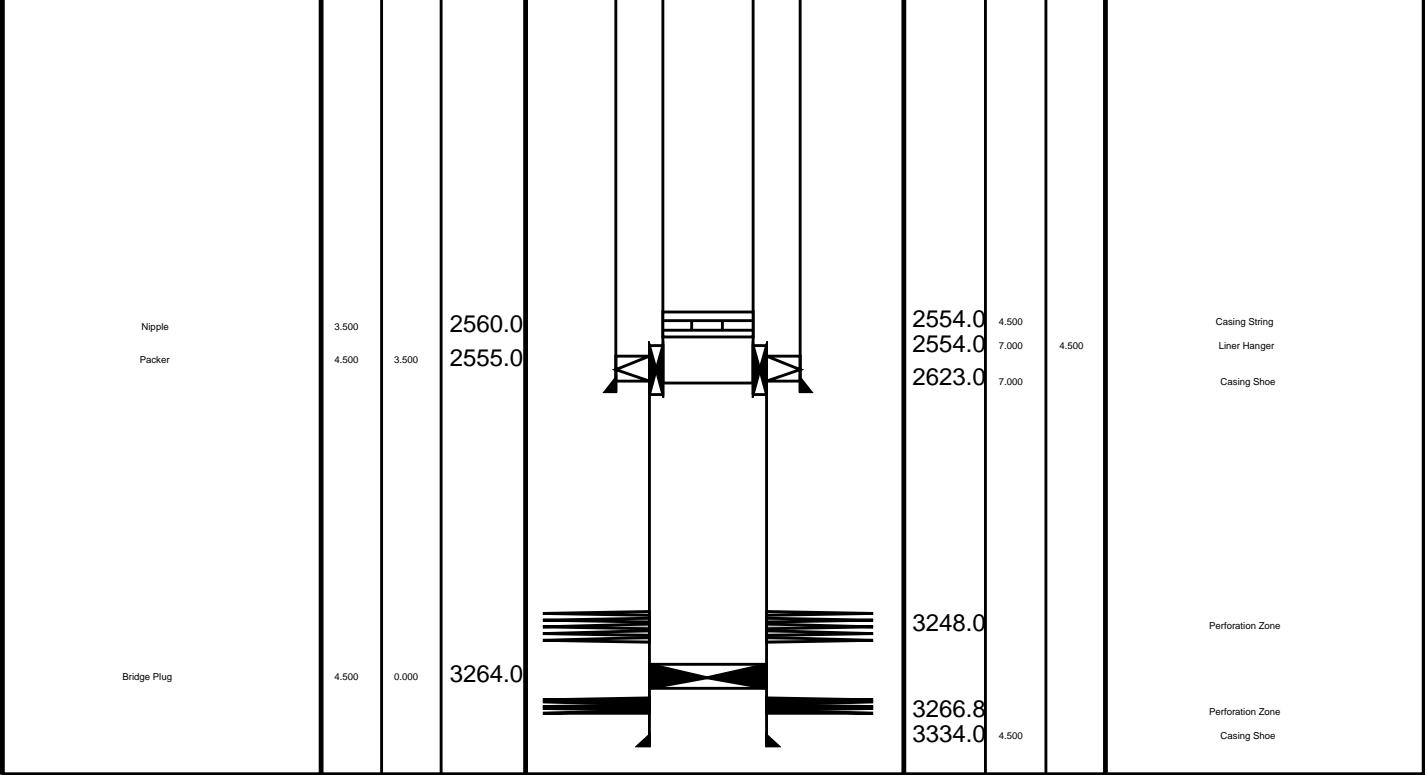
1. IDW used as primary depth control.
2. Z-chart used as secondary backup
3.
4.
5.
6.

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: None
OS2:
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil composite supplied with logging program.
Maximum well deviation = 70 degrees at 3335m MDKB.
Objective: Perforate the well using a 6m 2 1/8" 45deg Phased Powerjet gun
over the interval 3248m to 3254m MDKB. Set a 4.5"HPI Plug with top of seal
@ 3254m MDKB.
Before Gun- SBHP: 2640 psia, SBHT: 210 degf
After Gun- SBHP: 2640 psia, SBHT: 211 degf
Plug setting depth was 3252.8m MDKB

Plug setting depth was 3252.0m MDKB.					
Plug sealing element was originally set at 3263m MDKB however					
after pulling off the plug it was tagged at 3254m MDKB.					
Crew : J Annear,J Light,P Lawrence,K Kerr.					
RUN 1			RUN 2		
SERVICE ORDER #:		AusI07484931			
PROGRAM VERSION:		14C0-302			
FLUID LEVEL:		1135 m			
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
MWPM-. 3000			WITM (SHM) 1		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
AH-SWBS-B 731		15.66	EQF-SWBS-B 761		14.34
AH-SWBS-B 731			EQF-SWBS-B 761		
AH-SWBS-B 761		14.98	EQF-SWBS-B 762		13.66
AH-SWBS-B 761			EQF-SWBS-B 762		
AH-SWBS-B 762		14.29	EQF-SWBS-B 763		12.97
AH-SWBS-B 762			EQF-SWBS-B 763		
AH-SWBS-B 763		13.61	MH-SWHS-B 726		12.29
AH-SWBS-B 763					
MH-SWHS-A 726		12.92	CCL-L 4191 Tension CCL		11.96
			CCL-L 4191		
AH-124 1001		12.59	SHM_GUN 1		11.50
MWGT-AA 69		12.39	AH-X-Over SLB-GO 1		11.50
MWPG-AA 69	MWPG GR	2.41	AH-Electro Hydraulic Actuator 1		11.35
MWGH-AA 69			AH-Electro Hydraulic Actuator 1		
MWPT-CA 74		11.41	AH-Filter Section 1		10.80
MWPH-AA 74			AH-Filter Section 1		
MWPS-AA 74			AH-Snorkel Section 1		10.02
	CCL SMWP Pres SMWP Temp Tension	TOOL ZERO	AH-Snorkel Section 1		
AH-Flex Joint 41		8.59			
AH-Flex Joint 41					
AH-122 7002		8.03			
AH-SAH-G 1035		7.93	AH-Hydraulic Section 2		7.49
AH-SAH-G 1035			AH-Hydraulic Section 2		
MPD-MB 268		7.47			
MPD-MB 268					
AH-ESIG 4100821		6.03			
AH-ESIG 4100821					



Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Simulated Log	23-Jun-2007 6:43 000:37		PERFO_048LUP
Log Pass (down)	23-Jun-2007 9:09 000:27	711.6 – 3265.9	PERFO_050LDP
Log Pass (up)	23-Jun-2007 9:36 000:09	3265.8 – 3191.0	PERFO_051LUP
Log Pass (down)	23-Jun-2007 9:47 000:02	3205.6 – 3274.2	PERFO_053LDP
Log Pass (up)	23-Jun-2007 9:50 000:34	3274.3 – 3218.4	PERFO_054LUP
Station Log	23-Jun-2007 9:54 000:26	3245.0 – 4.0	PERFO_055LTP
Log Pass (up)	23-Jun-2007 10:24 000:18	3217.2 – 2513.4	PERFO_056LUP
Log Pass (up)	23-Jun-2007 10:49 000:02	1610.1 – 1583.9	PERFO_057LUP
Log Pass (down)	23-Jun-2007 11:32 000:45	-6.9 – 3269.3	PERFO_059LDP
Log Pass (up)	23-Jun-2007 12:17 000:04	3269.6 – 3201.2	PERFO_060LUP
Log Pass (up)	23-Jun-2007 12:50 000:08	29.1 – -21.6	PERFO_062LUP
Log Pass (down)	23-Jun-2007 13:46 001:05	-11.7 – 3259.2	PERFO_063LDP
Log Pass (up)	23-Jun-2007 14:51 000:04	3259.1 – 3210.8	PERFO_064LUP
Log Pass (down)	23-Jun-2007 14:56 000:02	3212.1 – 3266.1	PERFO_065LDP
Log Pass (up)	23-Jun-2007 14:58 000:04	3266.2 – 3192.8	PERFO_066LUP
Log Pass (down)	23-Jun-2007 15:04 000:02	3192.8 – 3259.2	PERFO_067LDP
Log Pass (up)	23-Jun-2007 15:26 000:23	3259.4 – 3221.2	PERFO_068LUP

Log Pass (up)	23-Jun-2007 15:06 000:23	3259.4 - 3221.3	PERFO_068LUP
Log Pass (down)	23-Jun-2007 15:29 000:02	3221.3 - 3251.5	PERFO_069LDP
Log Pass (down)	23-Jun-2007 15:32 000:01	3235.5 - 3254.7	PERFO_070LDP
Log Pass (down)	23-Jun-2007 15:34 000:01	3232.7 - 3257.4	PERFO_071LDP
Log Pass (down)	23-Jun-2007 15:36 000:01	3216.9 - 3255.4	PERFO_072LDP
Log Pass (up)	23-Jun-2007 15:38 000:04	3255.4 - 3181.8	PERFO_073LUP
Log Pass (down)	23-Jun-2007 15:43 000:01	3182.1 - 3255.4	PERFO_074LDP
Log Pass (up)	23-Jun-2007 15:44 000:02	3255.1 - 3190.0	PERFO_075LUP



Plug Setting Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_068LUP FN:67 PRODUCER 23-Jun-2007 15:06 3259.4 M 3221.3 M

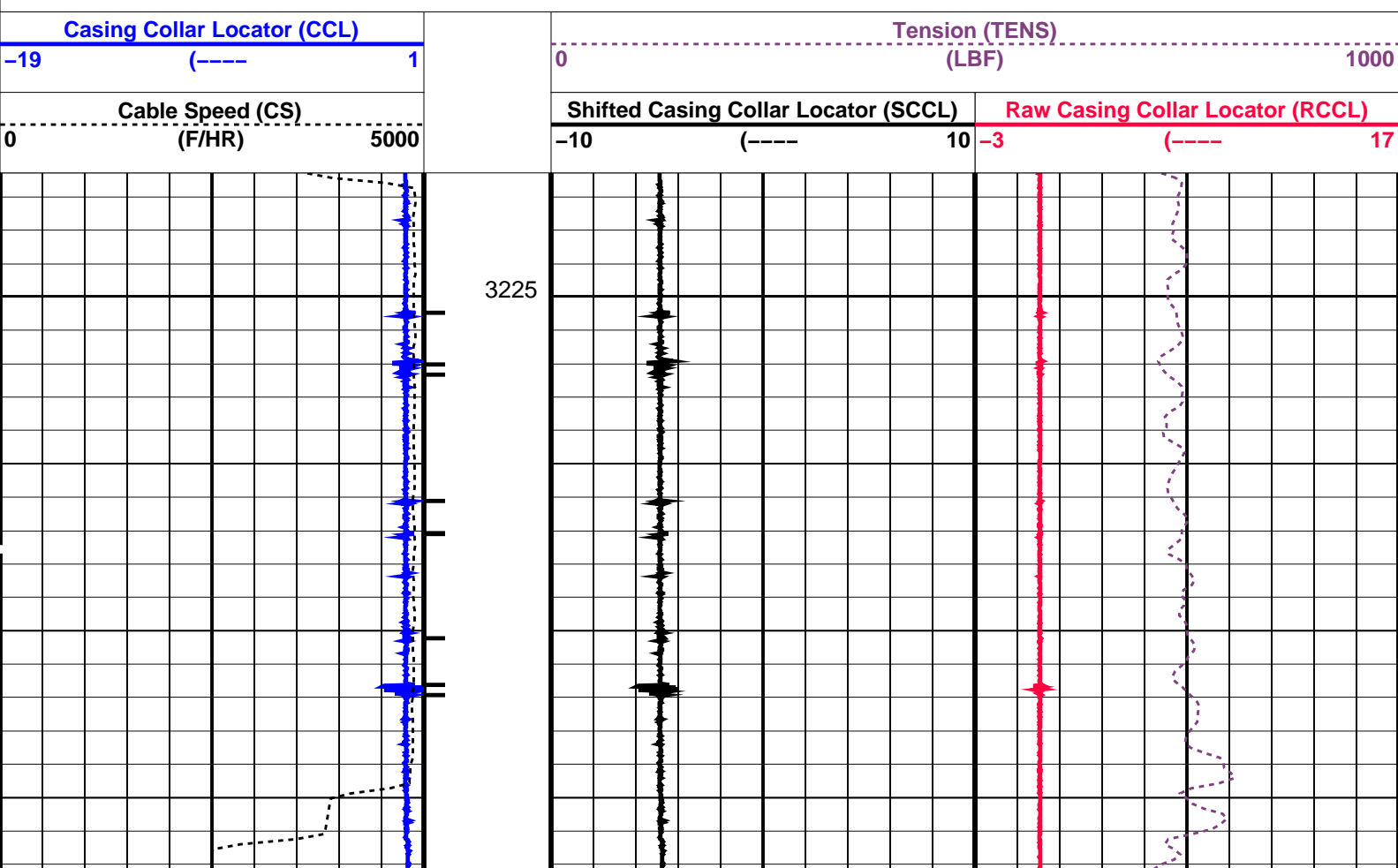
OP System Version: 14C0-302
MCM

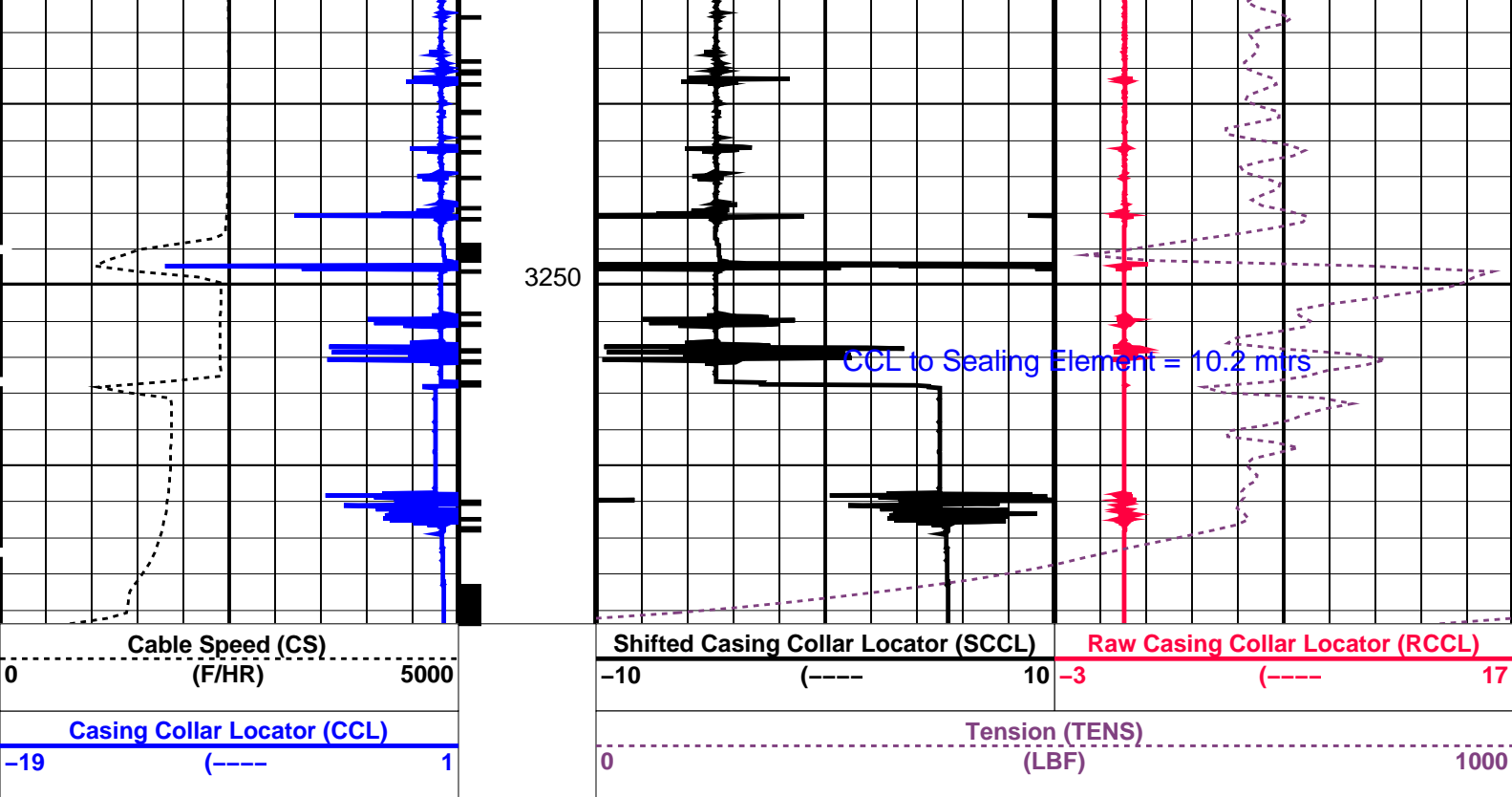
SHM_GUN 14C0-302 CCL-L 14C0-302

PIP SUMMARY

└─ Casing Collars

☐ Time Mark Every 60 S





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	0.3 V

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 23-Jun-2007 15:06

OP System Version: 14C0-302			
MCM			
SHM_GUN	14C0-302	CCL-L	14C0-302

Output DLIS Files			
DEFAULT	PERFO_068LUP	FN:67	PRODUCER 23-Jun-2007 15:06

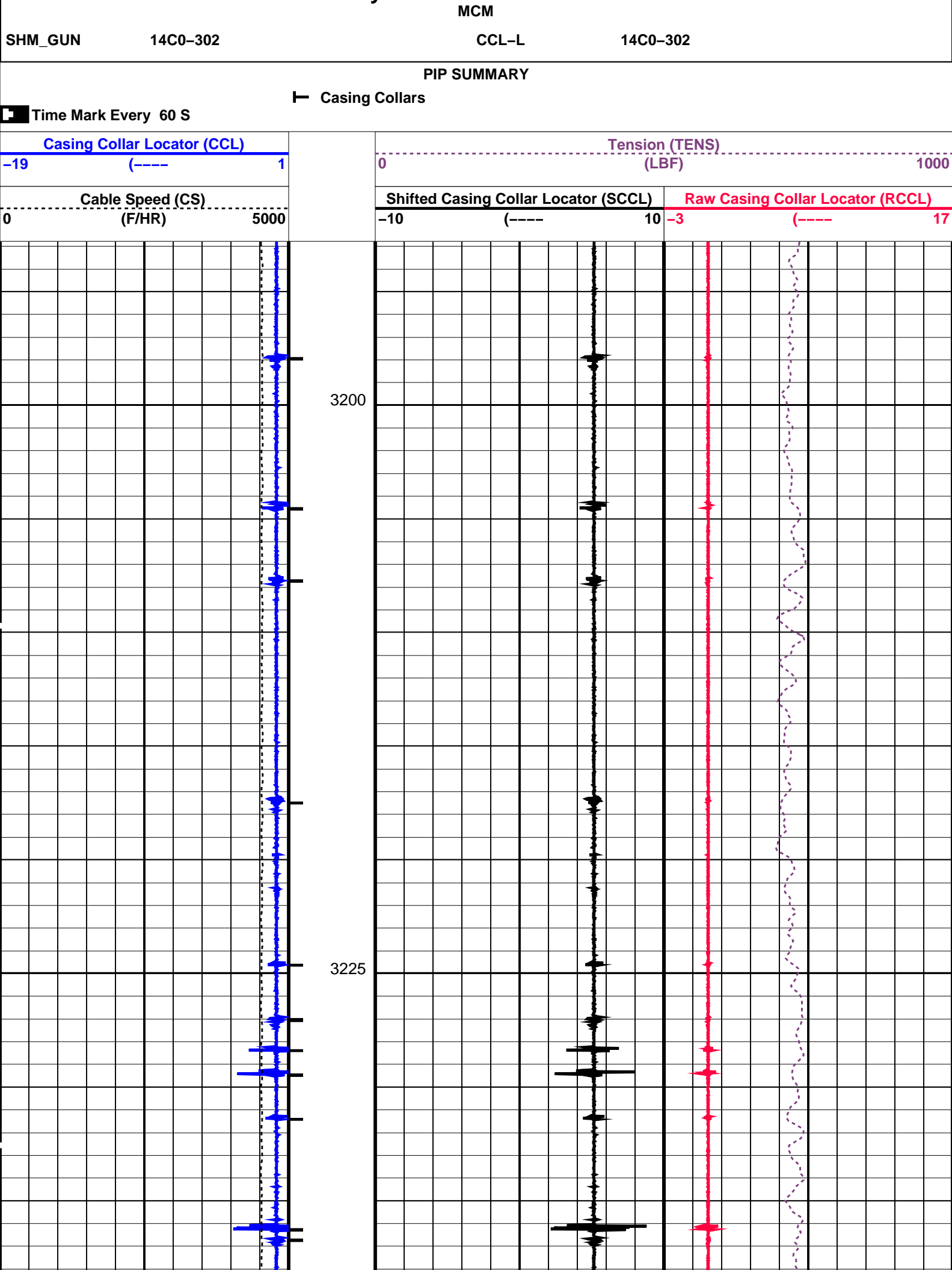


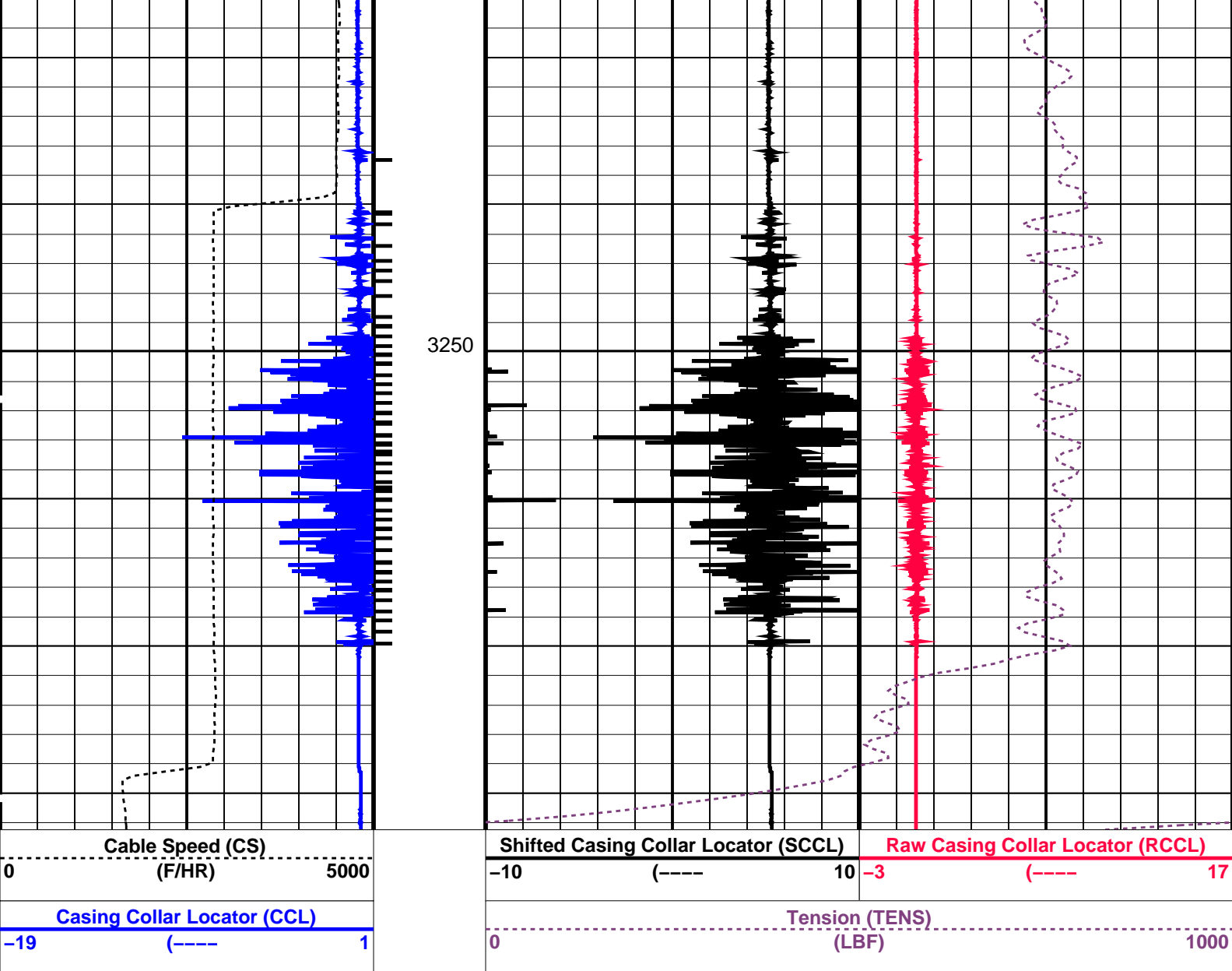
Plug Correlation Pass

MAXIS Field Log

Output DLIS Files			
DEFAULT	PERFO_066LUP	FN:65	PRODUCER 23-Jun-2007 14:58 3266.2 M 3192.8 M

OP System Version: 14C0-302





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	0.3 V

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 23-Jun-2007 14:58

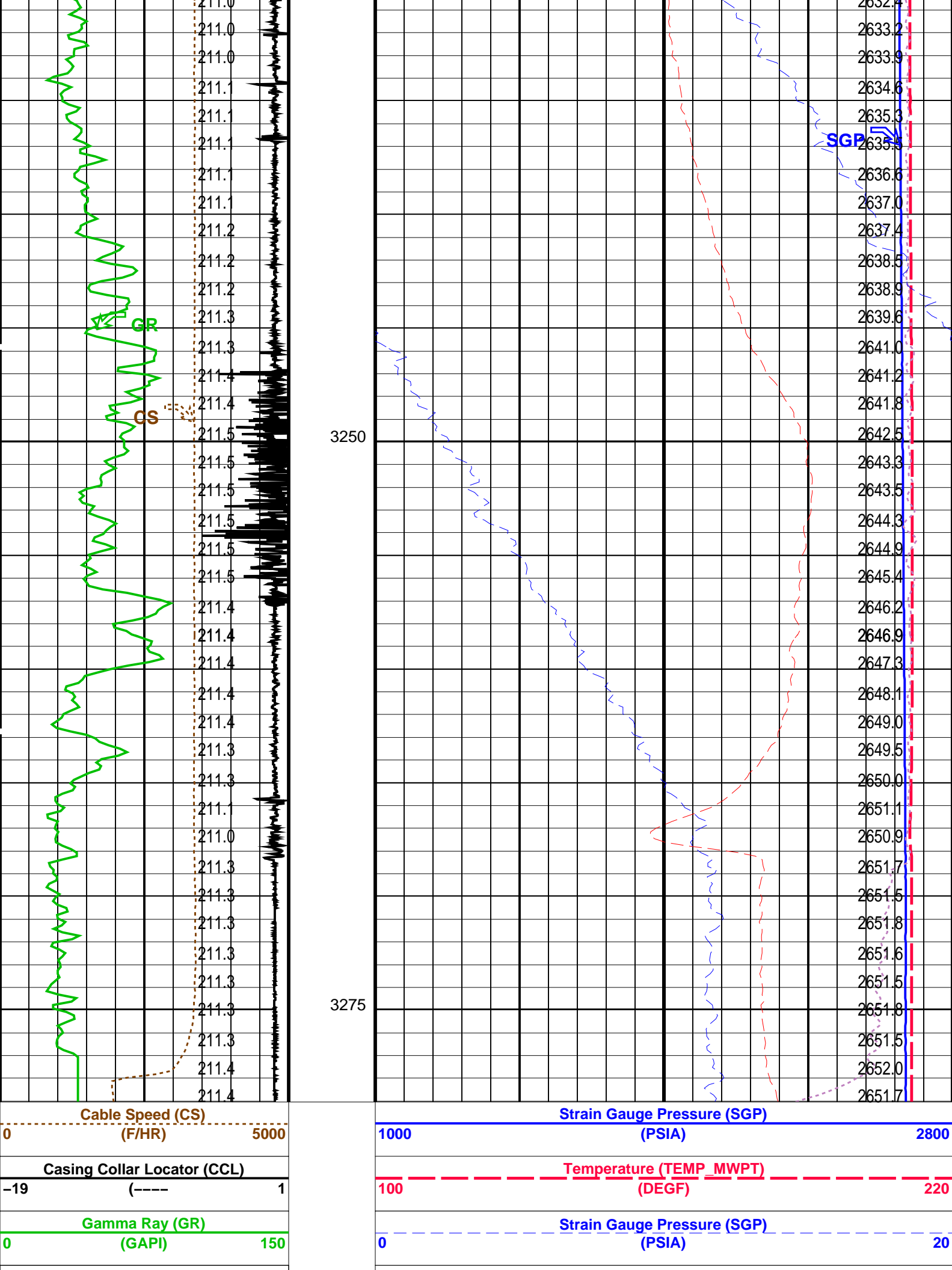
OP System Version: 14C0-302

MCM

SHM_GUN 14C0-302 CCL-L 14C0-302

Output DLIS Files

DEFAULT PERFO_066LUP FN:65 PRODUCER 23-Jun-2007 14:58



CCL From CCL to T1		Temperature (TEMP_MWPT) (DEGF)02	
	Temperature (TEMP_MWPT) (DEGF)	0	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	9.4	M
PP	Playback Processing	NORMAL	

Format: MWP	Vertical Scale: 1:200	Graphics File Created: 23-Jun-2007 12:22
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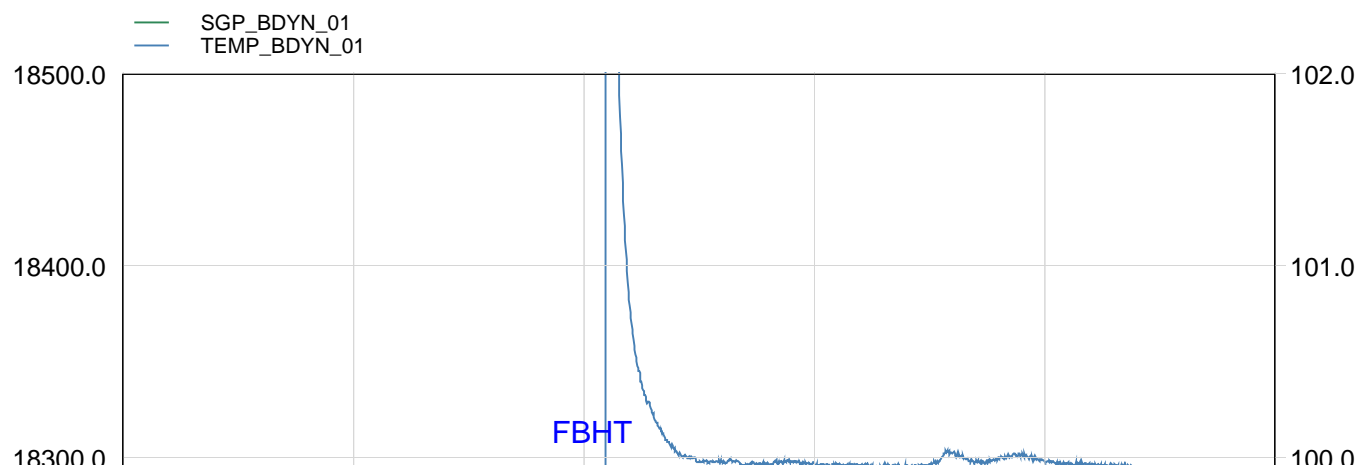
OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

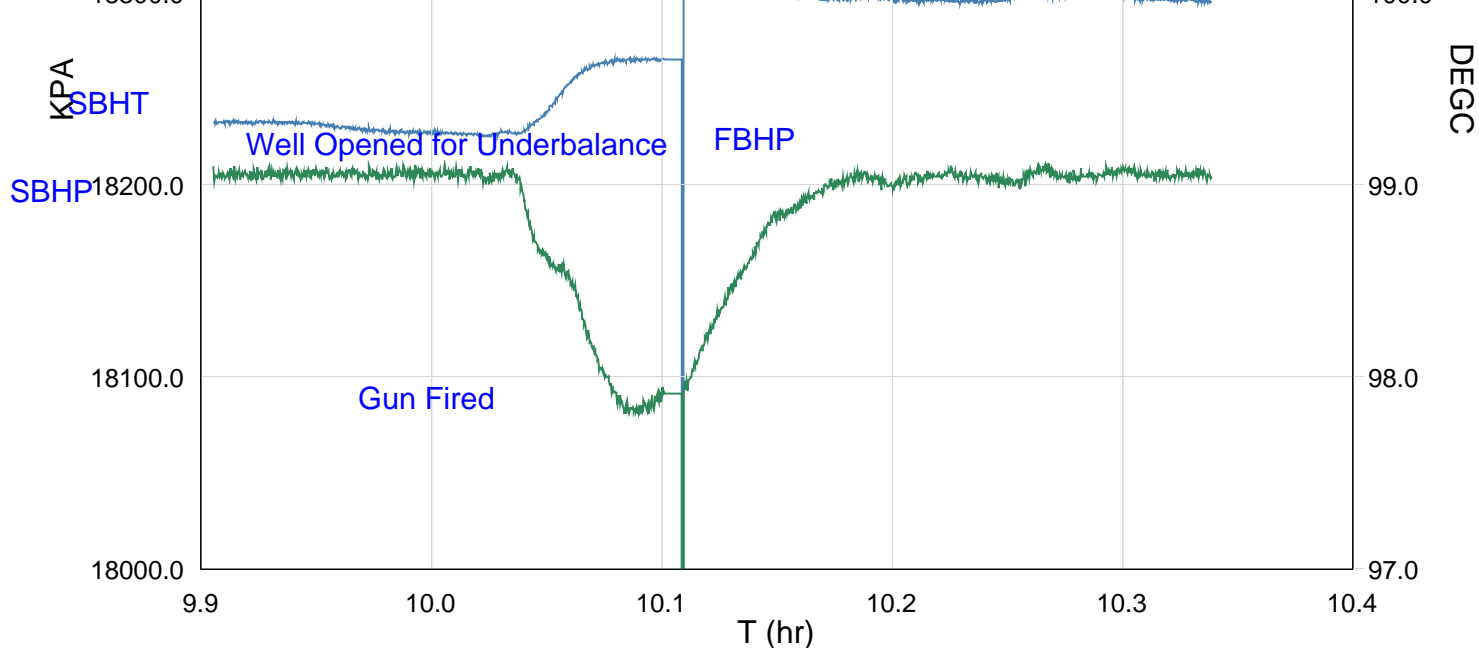
Input DLIS Files						
DEFAULT	PERFO_060LUP	FN:59	PRODUCER	23-Jun-2007 12:17	3269.6 M	3201.2 M
Output DLIS Files						
DEFAULT	PERFO_061PUP	FN:60	PRODUCER	23-Jun-2007 12:22		



Gun # 1 Fired @
3248m to 3254m MDKB

MAXIS Field Log





TIME	DEGF	PSIA
4200.0	211.93	2640.497
4140.0	211.94	2640.550
4080.0	211.99	2640.722
4020.0	212.00	2640.374
3960.0	212.02	2640.996
3900.0	211.94	2640.162
3840.0	211.92	2640.509
3780.0	211.93	2640.151
3720.0	211.95	2639.982
3660.0	211.95	2640.154
3600.0	211.98	2638.658
3540.0	212.01	2636.956
3480.0	212.45	2631.376
3420.0	219.00	2625.335
3360.0	211.38	2623.227
3300.0	211.38	2623.992
3240.0	211.23	2631.528
3180.0	210.80	2635.122
3120.0	210.68	2640.421
3060.0	210.67	2640.578
3000.0	210.69	2640.329
2940.0	210.71	2640.473
2880.0	210.75	2640.593
2820.0	210.78	2640.768
2760.0	210.80	2640.794
2700.0	210.80	2640.731

Company: Esso Australia Pty Ltd.

Well: A-22ST1

Output DLIS Files

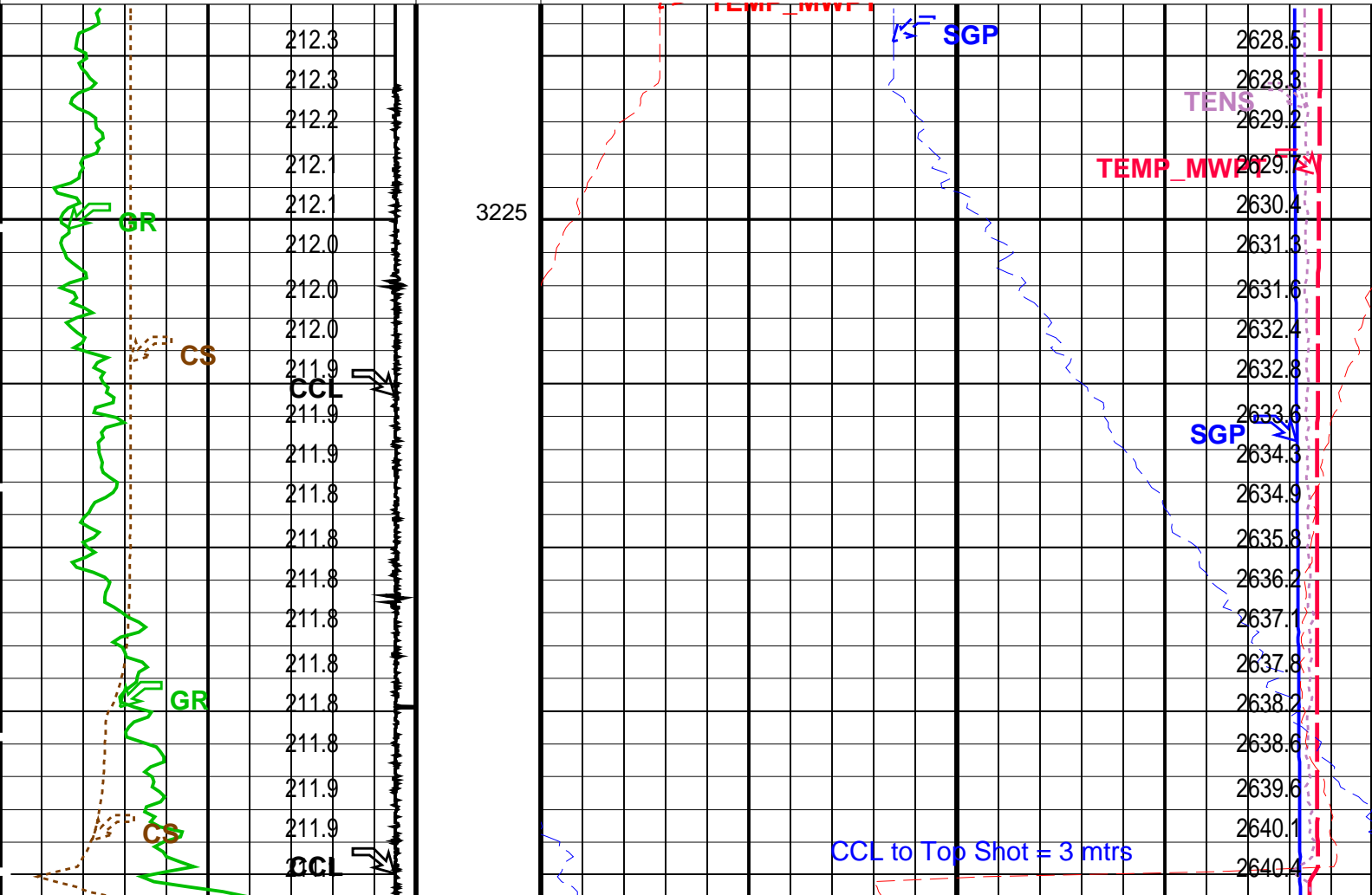
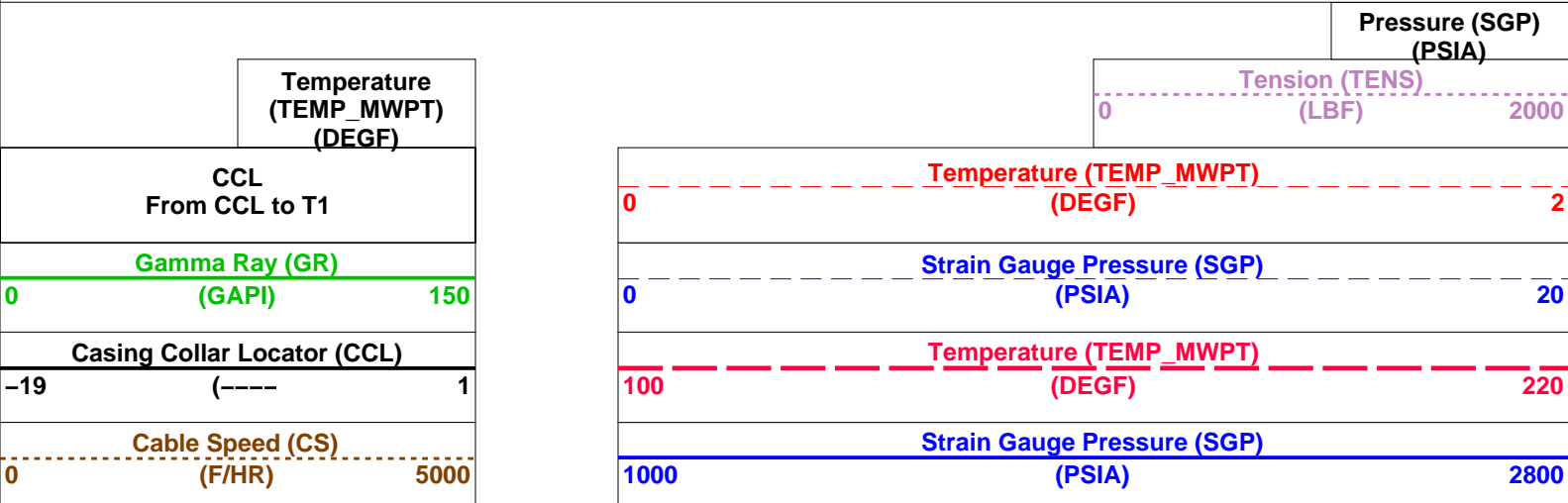
DEFAULT PERFO_054LUP FN:53 PRODUCER 23-Jun-2007 09:50 3274.3 M 3218.4 M

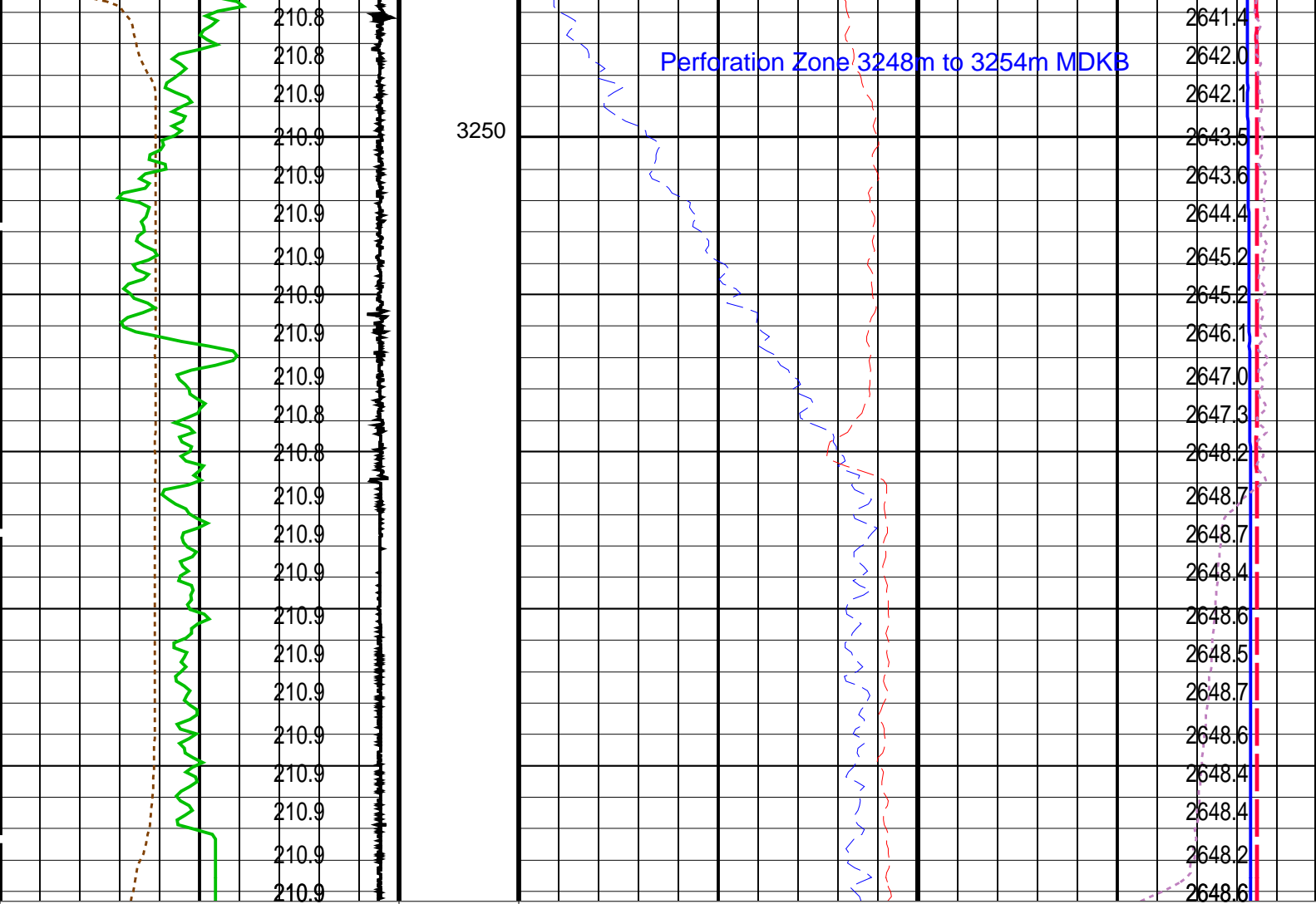
OP System Version: 14C0-302
MCM

MWP_GUN 14C0-302 MWPT-CA 14C0-302
MWGT-AA 14C0-302

PIP SUMMARY

Time Mark Every 60 S





Cable Speed (CS)
(F/HR)

05000

Casing Collar Locator (CCL)
(----

-191

Gamma Ray (GR)
(GAPI)

0150

CCL
From CCL to T1

Temperature
(TEMP_MWPT)
(DEGF)

Strain Gauge Pressure (SGP)
(PSIA)

10002800

Temperature (TEMP_MWPT)
(DEGF)

100220

Strain Gauge Pressure (SGP)
(PSIA)

020

Temperature (TEMP_MWPT)
(DEGF)

02

Tension (TENS)
(LBF)

02000

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: 23-Jun-2007 09:50

MWP_GUN
MWGT-AA

14C0-302
14C0-302

MWPT-CA
14C0-302

Output DLIS Files

DEFAULTPERFO_054LUPFN:53PRODUCER23-Jun-2007 09:50

Schlumberger

Gun Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-22ST1

Input DLIS Files

DEFAULTPERFO_051LUPFN:50PRODUCER23-Jun-2007 09:363265.8 M3191.0 M

Output DLIS Files

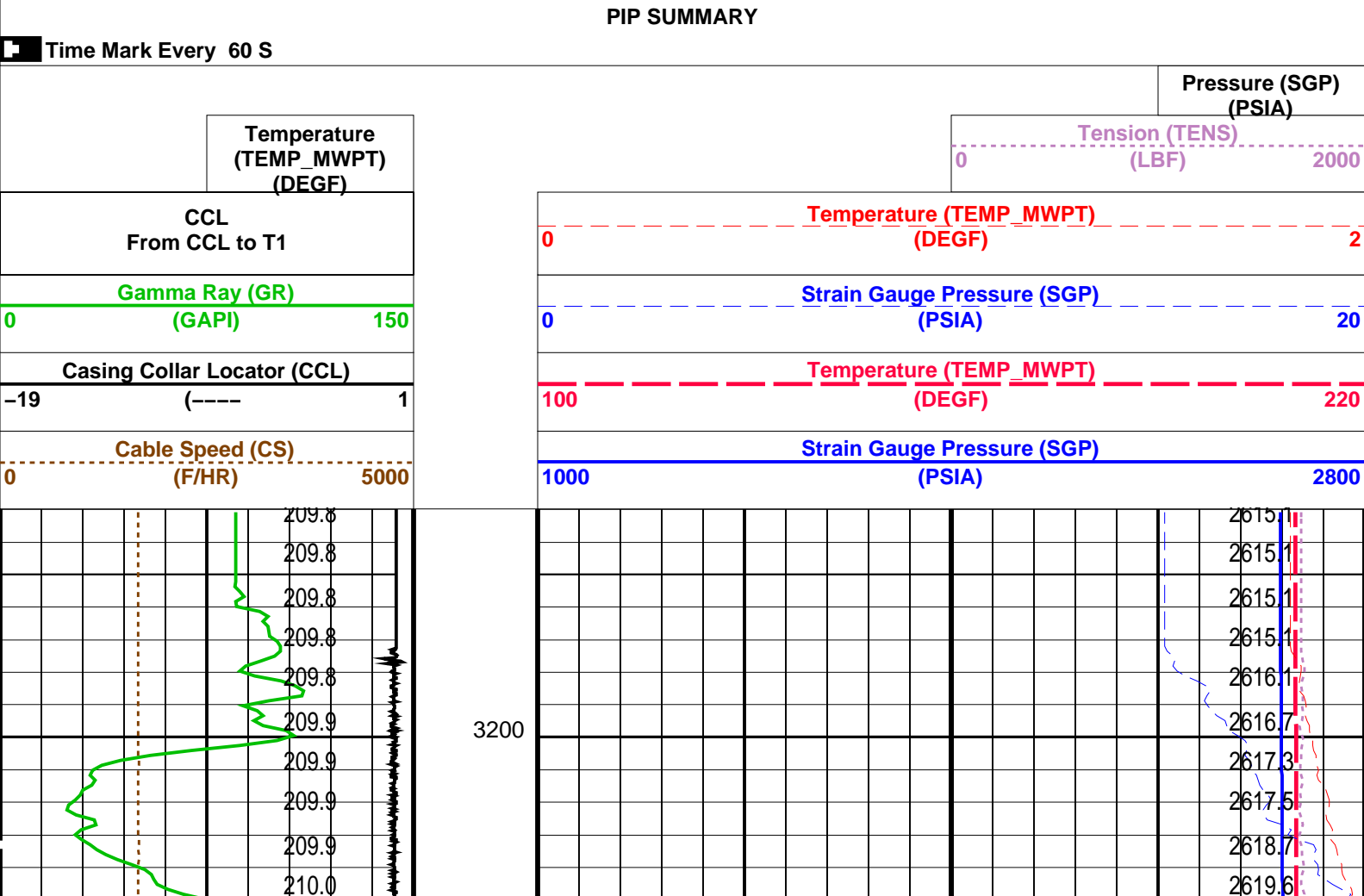
DEFAULTPERFO_052PUPFN:51PRODUCER23-Jun-2007 09:463269.7 M3192.9 M

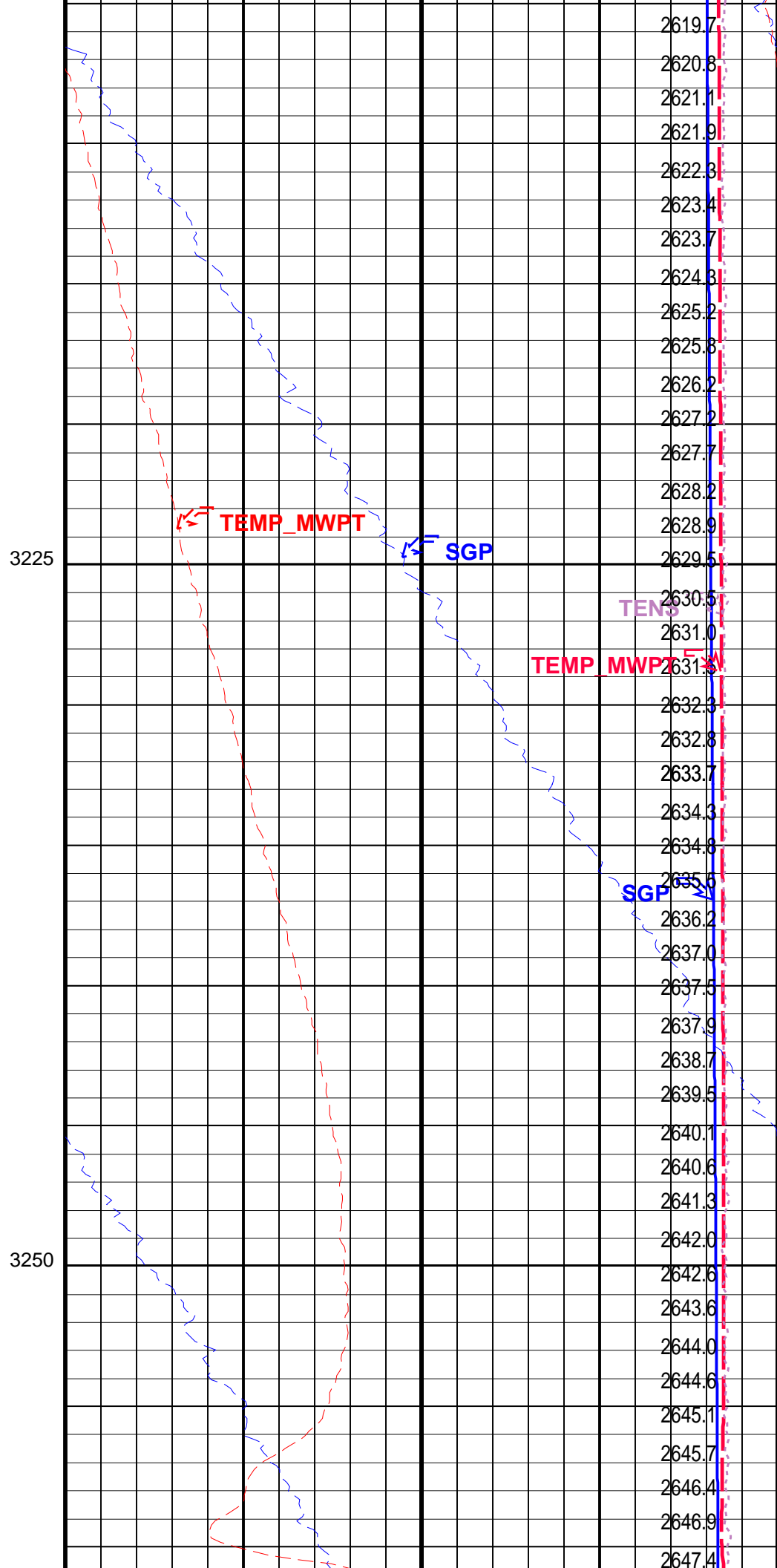
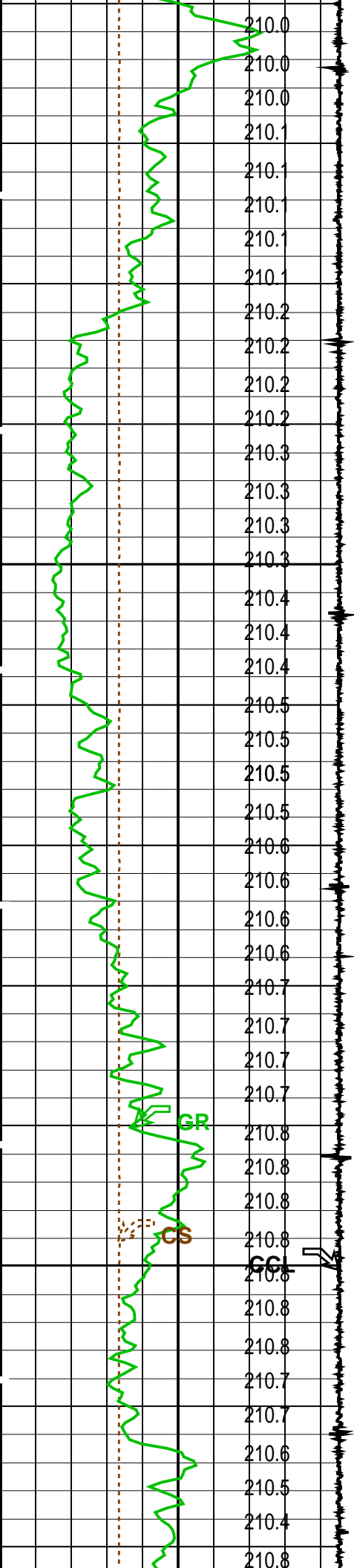
OP System Version: 14C0-302

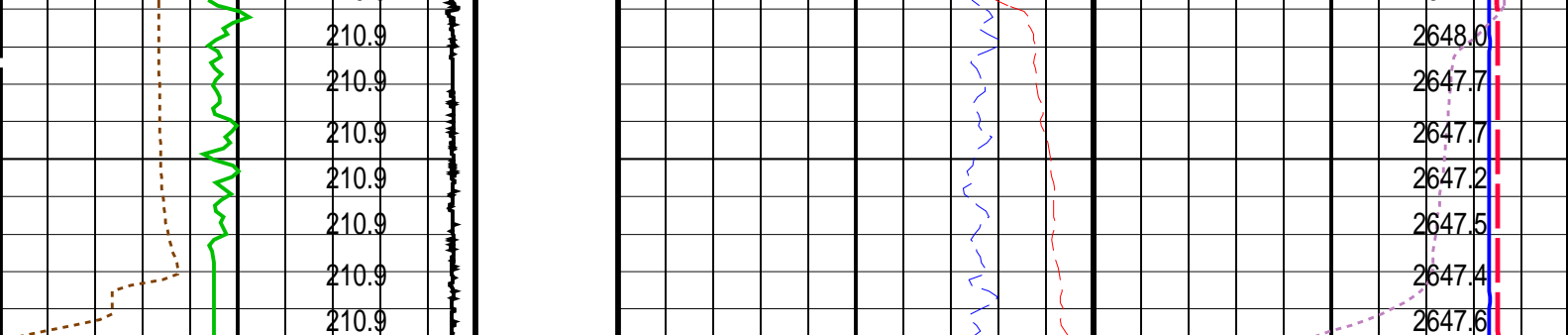
MCM

MWP_GUN14C0-302MWPT-CA14C0-302

MWGT-AA14C0-302







Cable Speed (CS) (F/HR)		0	5000
Casing Collar Locator (CCL) (----)		-19	1
Gamma Ray (GR) (GAPI)		0	150
CCL From CCL to T1			
Temperature (TEMP_MWPT) (DEGF)			
Strain Gauge Pressure (SGP) (PSIA)		1000	2800
Temperature (TEMP_MWPT) (DEGF)		100	220
Strain Gauge Pressure (SGP) (PSIA)		0	20
Temperature (TEMP_MWPT) (DEGF)		0	2
Tension (TENS) (LBF)		0	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	4.0 M
PP	Playback Processing	NORMAL

Format: MWP Vertical Scale: 1:200

Graphics File Created: 23-Jun-2007 09:46

OP System Version: 14C0-302

MCM

MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Input DLIS Files

DEFAULT	PERFO_051LUP	FN:50	PRODUCER	23-Jun-2007 09:36	3265.8 M	3191.0 M
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Output DLIS Files

DEFAULT	PERFO_052PUP	FN:51	PRODUCER	23-Jun-2007 09:46
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Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **A-22ST1**

Field: **Bream A**

Rig : **Prod4 / Crane**

Country: **Australia**

2 1/8" Powerjet Perforation

2 1/2" HPI Plug
4 1/2" HPI Plug
Setting Record