

Company: Esso Australia Pty Ltd.

Well: A-3
Field: Bream A
Rig : Prod4 / Crane
Country: Australia

MWPT 2 1/8" Phased
Powerjet Perforation
Record

Prod4 / Crane
Bream A
Gippsland
A-3
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. _____
Log Measured From:	D.F. _____ 32.8 m above Perm. Datum
Drilling Measured From:	D.F. _____
State: Victoria	Max. Well Deviation 73 deg
	Longitude 147 46'15"E
	Latitude 038 30'04"S

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

15-Jun-2007

One

3333 m

3327 m

3327 m

3100 m

Production Fluids

545 m

6.750 in

5.000 in

18 lbm/ft

L-80

3114 m

3391 m

202 degF

15-Jun-2007

889

G Wright, S Gilbert.

Max. Well Deviation 73 deg

Longitude 147 46'15"E

Latitude 038 30'04"S

Run 1

PVT DATA

Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	73 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

DEPTH SUMMARY LISTING

Date Created: 13-JUN-2007 13:28:25

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-EB	Type:	PSDS/OSDS	Type:	2-32ZT
Serial Number:	6373	Serial Number:	325357	Serial Number:	24425
Calibration Date:	4-Jan-2007	Calibration Date:	10-Jun-2007	Length:	6449.87 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1174	Conveyance Method: Wireline Rig Type: Rigless	
Calibration Cable Type:	2-23ZT	Calibration Gain:	0.92		
Wheel Correction 1:	-2	Calibration Offset:	199.00		
Wheel Correction 2:	-4				

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

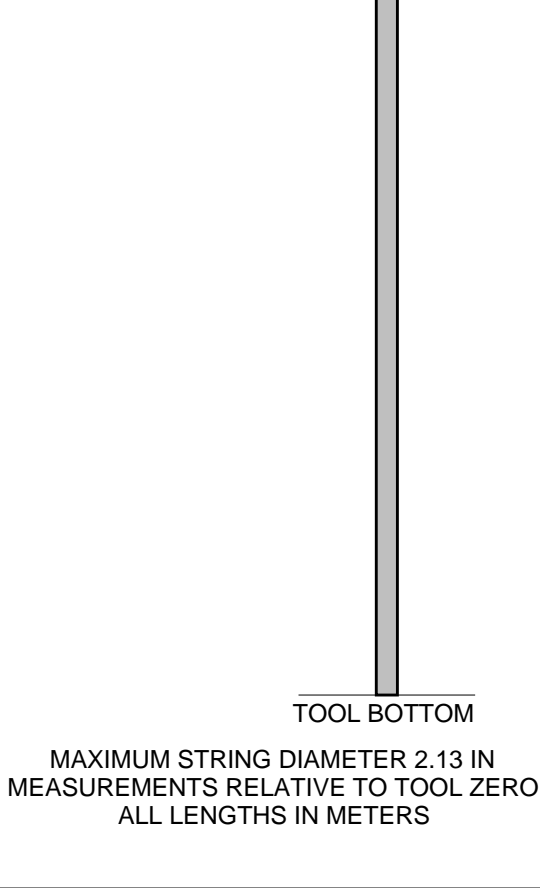
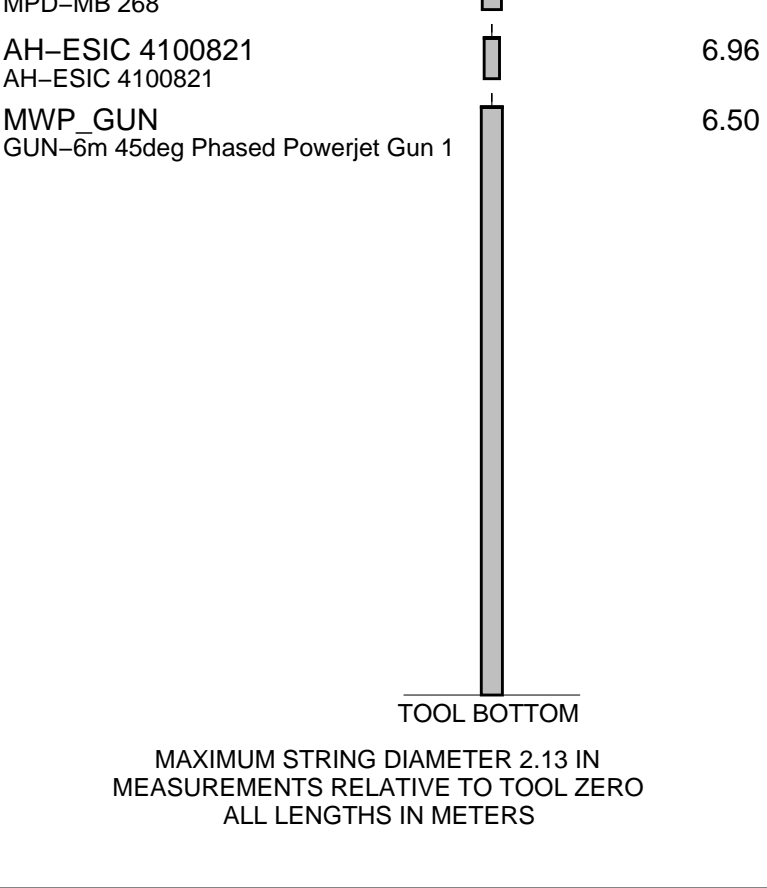
1. IDW used as primary depth control.
2. Z-chart used as secondary backup
3.
4.
5.
6.

DISCLAIMER

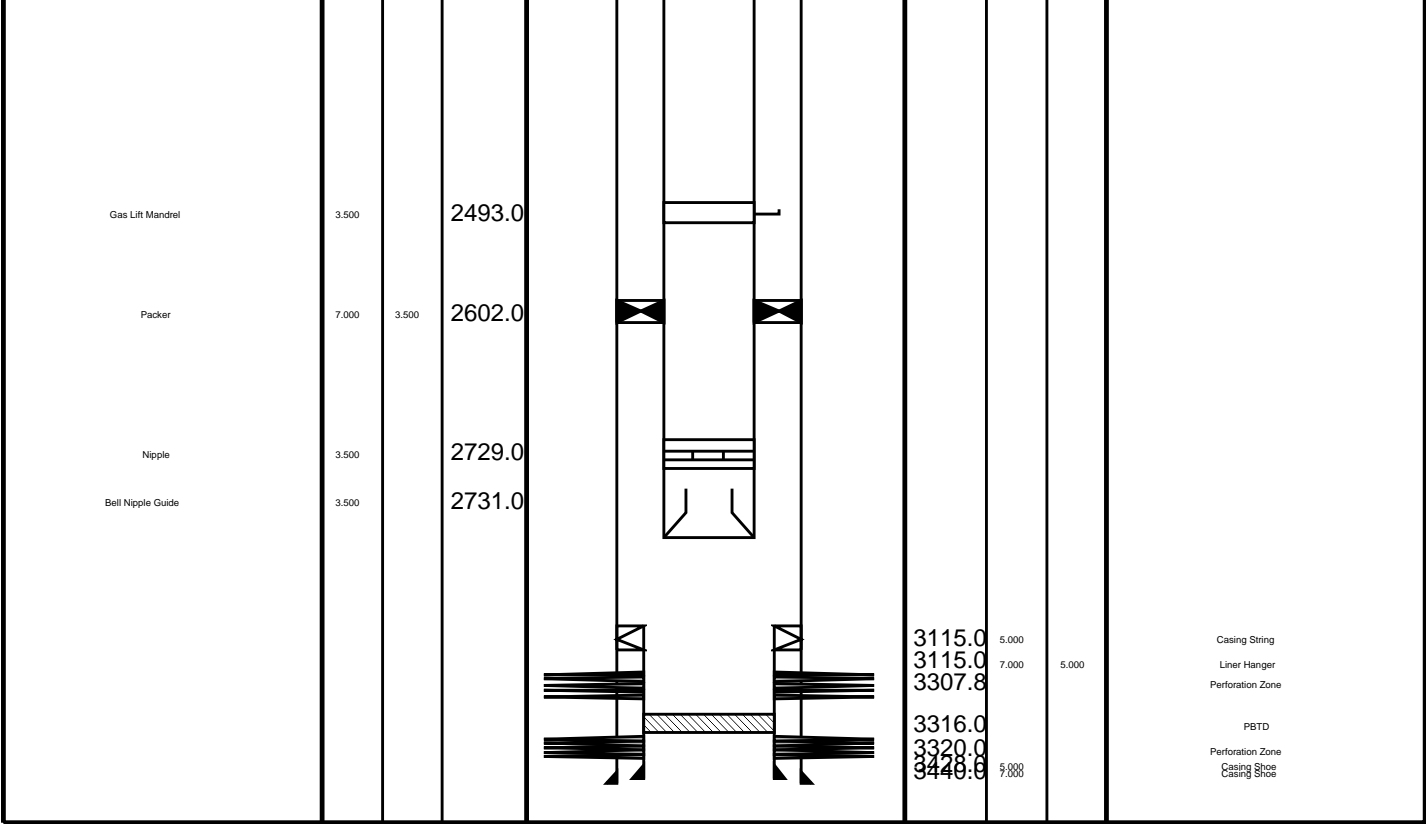
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (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: RST-C Sigma
OS2: 5" HPI Plug
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil composite supplied with logging program.
Objective: Perforate the well using MWPT and a 6m - 6spf 45deg Phased
Powerjet gun over the interval 3307.8m MDKB to 3313.8m MDKB .
Maximum Well Deviation : 73deg @ 3414m MDKB
H2s = 280ppm.
Before Perforation- SBHP: 2654 psia,SBHT: 202 degf

AH-SWBS-B 731 AH-SWBS-B 731			15.69	AH-SWBS-B 731 AH-SWBS-B 731			13.69
AH-SWBS-B 761 AH-SWBS-B 761			15.00	AH-SWBS-B 761 AH-SWBS-B 761			13.00
AH-SWBS-B 762 AH-SWBS-B 762			14.32	AH-SWBS-B 762 AH-SWBS-B 762			12.32
AH-SWBS-B 763 AH-SWBS-B 763			13.63	AH-SWBS-B 763 AH-SWBS-B 763			11.63
MH-SWHS-A 726			12.95	MH-SWHS-A 726			10.95
AH-124 1001			12.62	CCL-L 4195 CCL-L 4195	Tension CCL		TOOL ZERO 10.62
MWGT-AA 19 MWPG-AA 19 MWGH-AA 19	MWPG GR		12.41	HPI Setting Tool. GUN-HPI Setting Tool			10.16
MWPT-CA 94 MWPH-AA 94 MWPS-AA 94	CCL SMWP Pres SMWP Temp Tension		11.43				
AH-Flex Joint 41 AH-Flex Joint 41			8.61				
AH-122 8			8.06				
AH-SAH-G 1035 AH-SAH-G 1035			7.95				
MPD-MB 268 MPD-MB 268			7.50				



Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	7.000	3.500	10.0		11.0	10.750	7.000	Casing String
					11.0			Liner Hanger
Shut-in Valve		3.500	455.0					
Gas Lift Mandrel		3.500	568.0					
Gas Lift Mandrel		3.500	1141.0		994.0	10.750		Casing Shoe



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Log Pass (down)	15-Jun-2007 14:58	000:06	3115.2 - 3317.3 PERFO_052LDP
Log Pass (up)	15-Jun-2007 15:07	000:06	3319.0 - 3267.5 PERFO_053LUP
Log Pass (up)	15-Jun-2007 15:17	000:44	3317.4 - 3268.8 PERFO_055LUP
Station Log	15-Jun-2007 15:21	000:31	3304.3 - 4.7 PERFO_056LTP
Log Pass (up)	15-Jun-2007 16:02	000:04	3262.6 - 3076.7 PERFO_057LUP
Log Pass (up)	15-Jun-2007 17:47	000:23	3329.2 - 3090.4 PERFO_062LUP
Log Pass (up)	15-Jun-2007 22:35	000:06	3232.4 - 3172.1 PERFO_083LUP
Log Pass (up)	15-Jun-2007 22:53	000:33	3314.4 - 3249.3 PERFO_086LUP



Plug Setting Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_086LUP FN:85 PRODUCER 15-Jun-2007 22:53 3314.4 M 3249.3 M

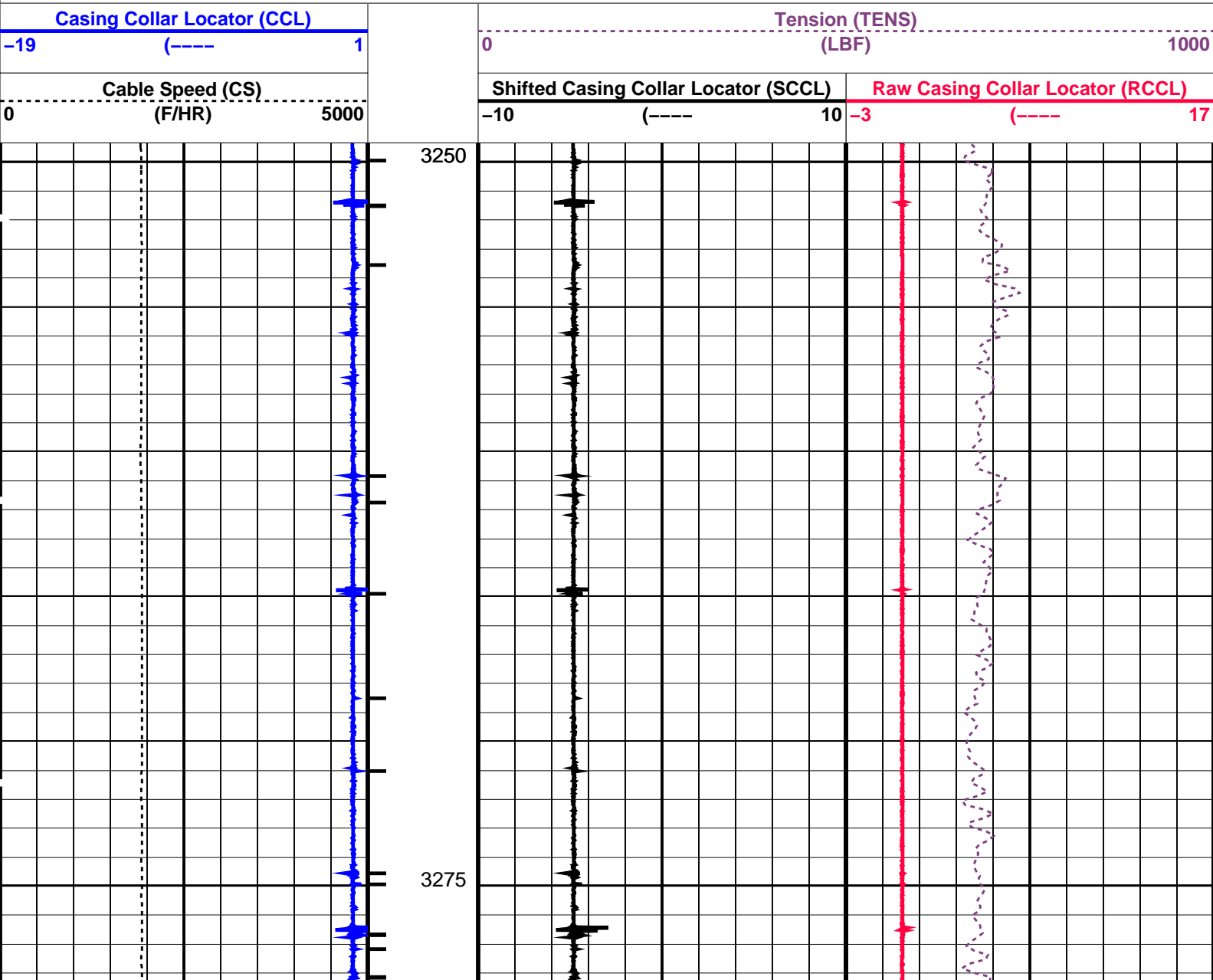
OP System Version: 14C0-302
MCM

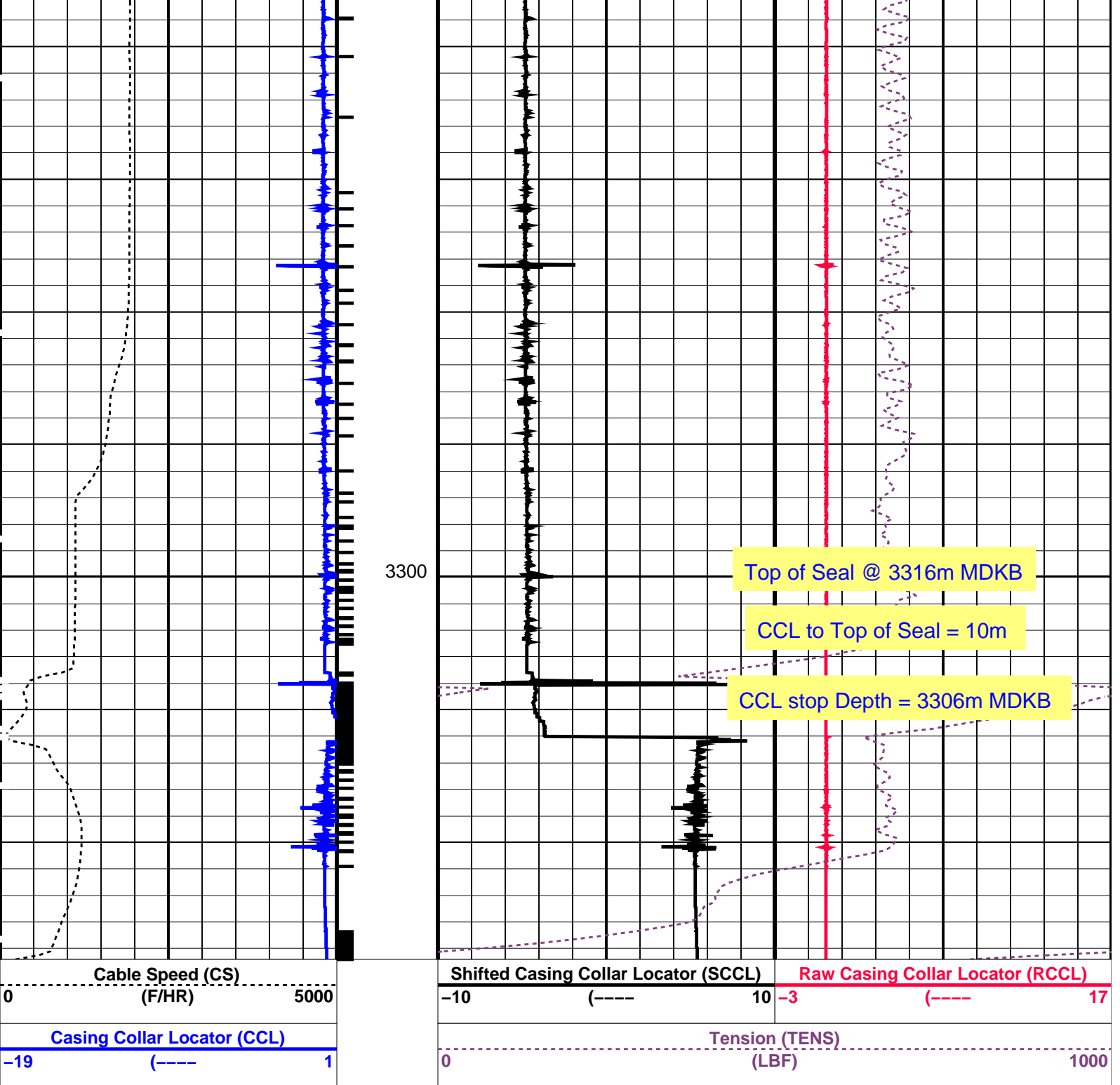
SHM_GUN 14C0-302 CCL-L 14C0-302

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

← 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: 15-Jun-2007 22:53

OP System Version: 14C0-302
MCM

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



MAXIS Field Log

3172.1 M

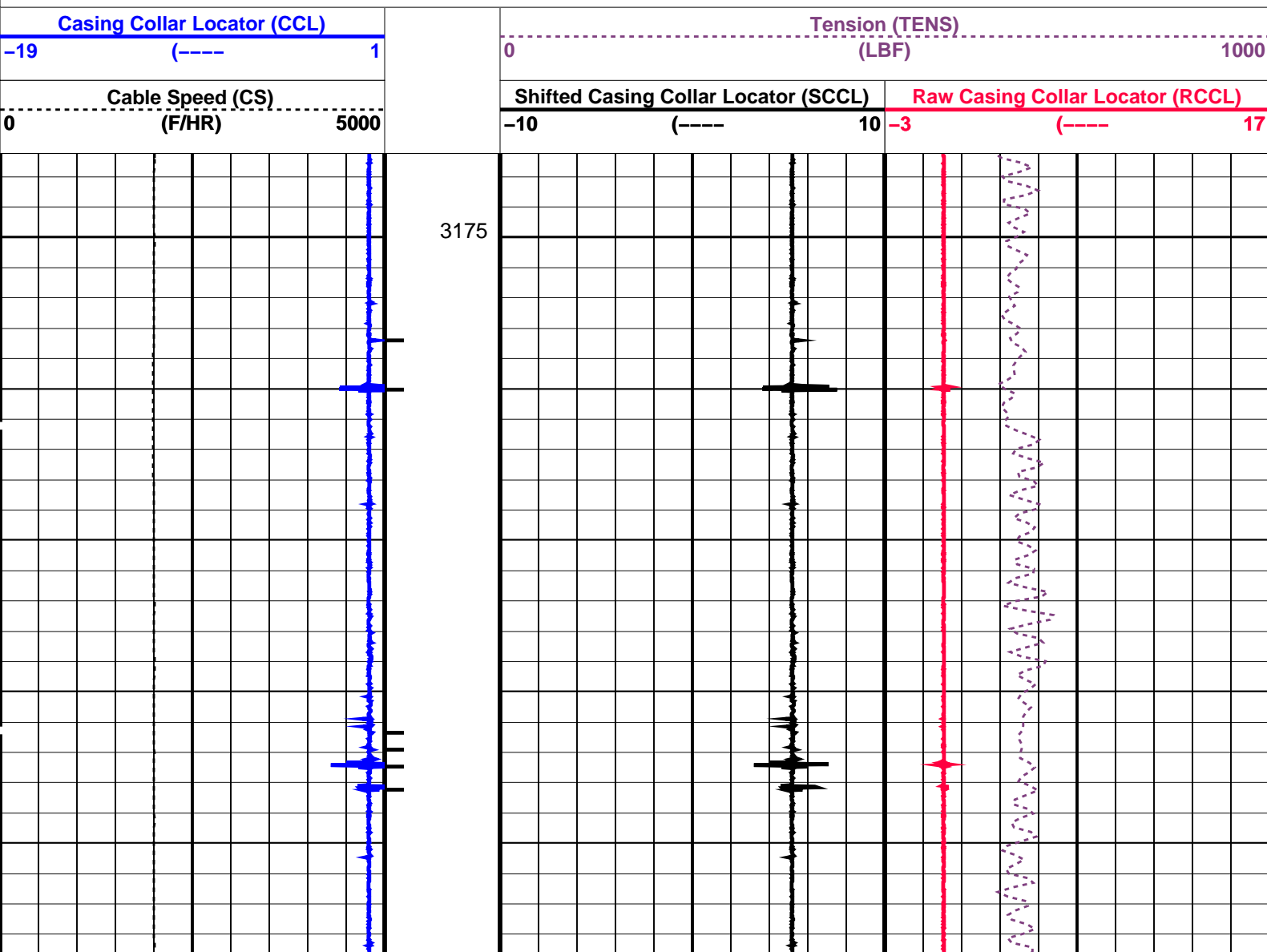
MCM

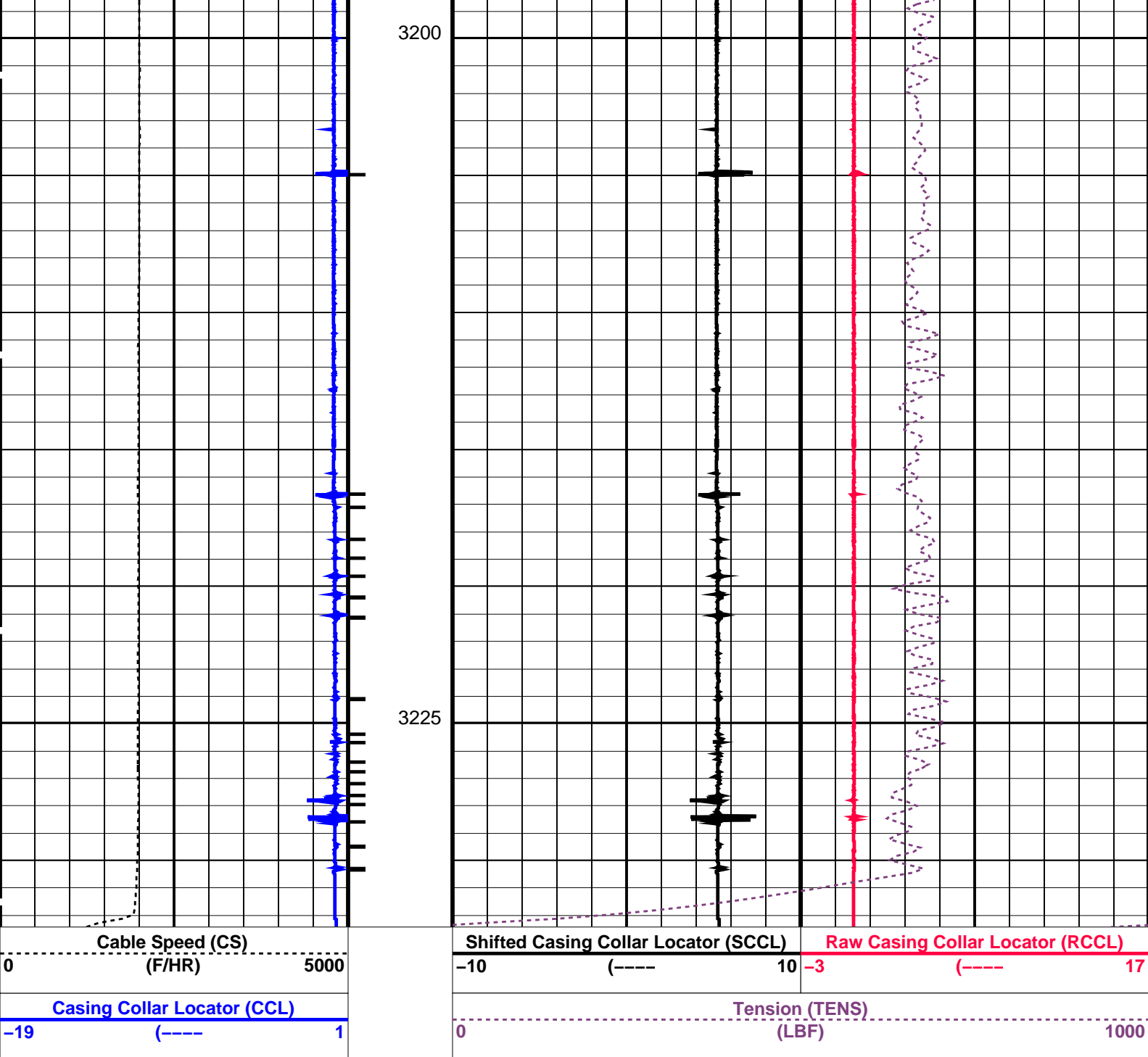
14C0-302

PIP SUMMARY

└ Casing Collars

Time Mark Every 60 S





PIP SUMMARY

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: 15-Jun-2007 22:35

OP System Version: 14C0-302
MCM

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

Output DLIS Files

DEFAULT PERFO_083LUP FN:82 PRODUCER 15-Jun-2007 22:35



Dummy Plug

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-3

Input DLIS Files

DEFAULT PERFO_062LUP FN:61 PRODUCER 15-Jun-2007 17:47 3329.2 M 3090.4 M

Output DLIS Files

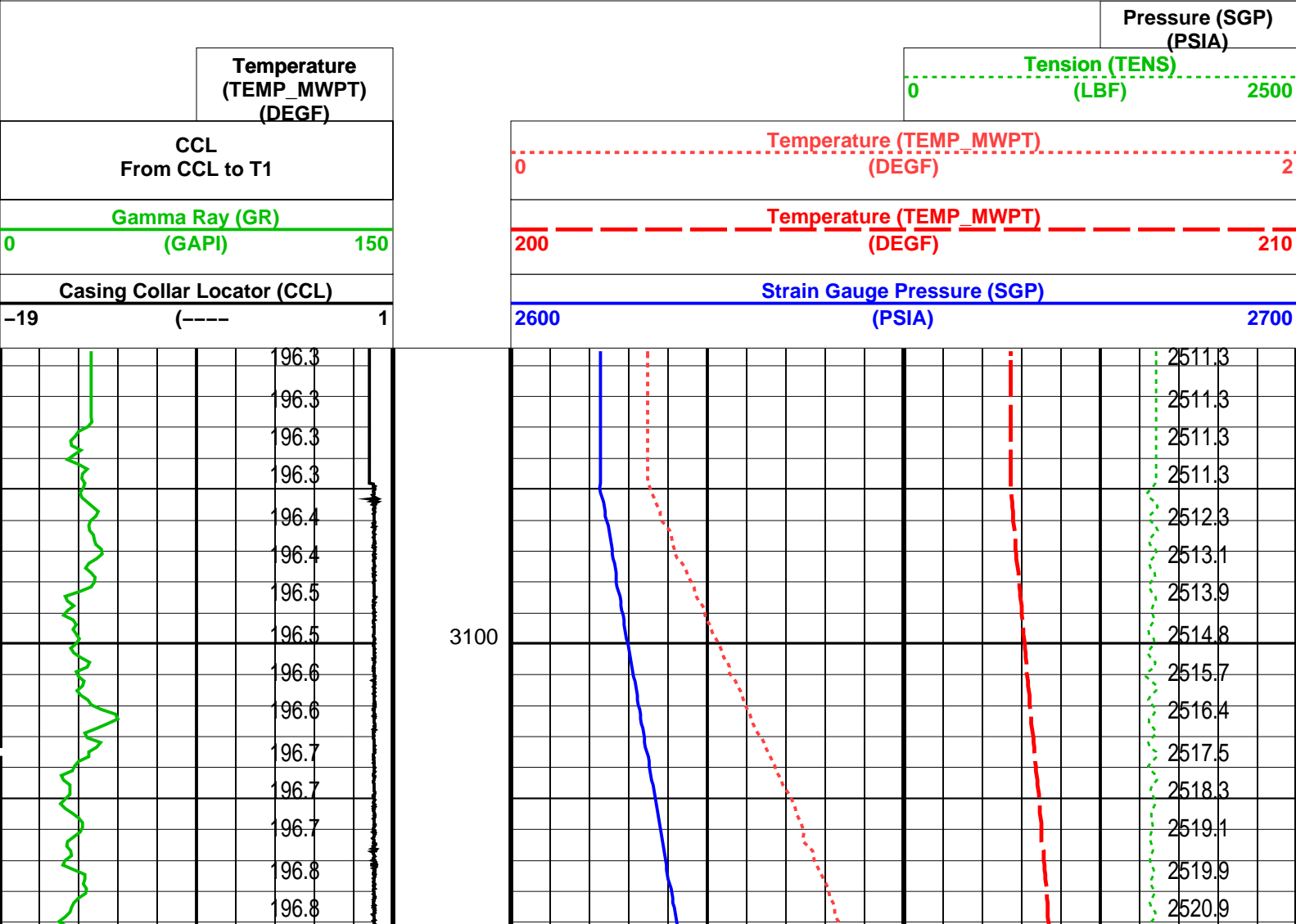
DEFAULT PERFO_063PUP FN:62 PRODUCER 15-Jun-2007 18:11 3331.2 M 3090.4 M

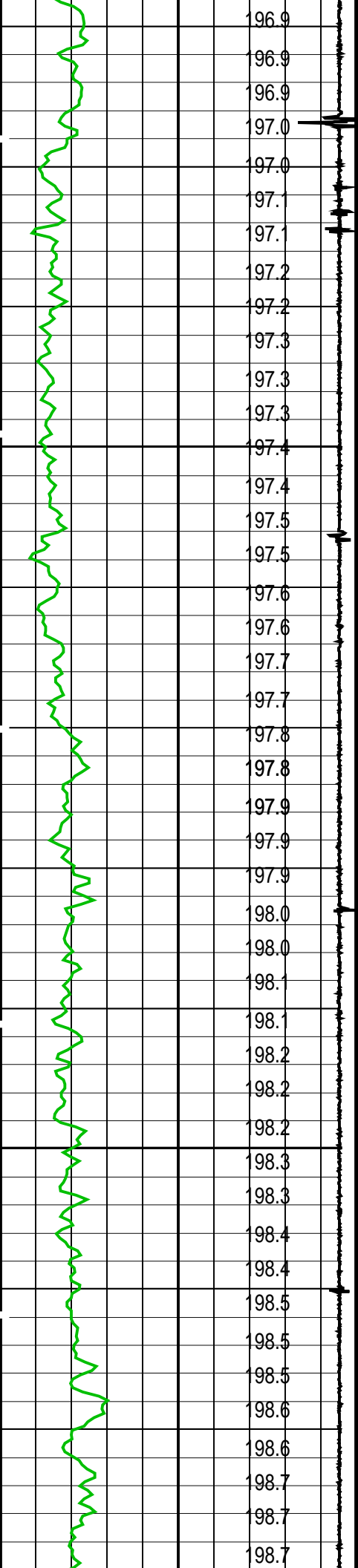
OP System Version: 14C0-302
MCM

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

PIP SUMMARY

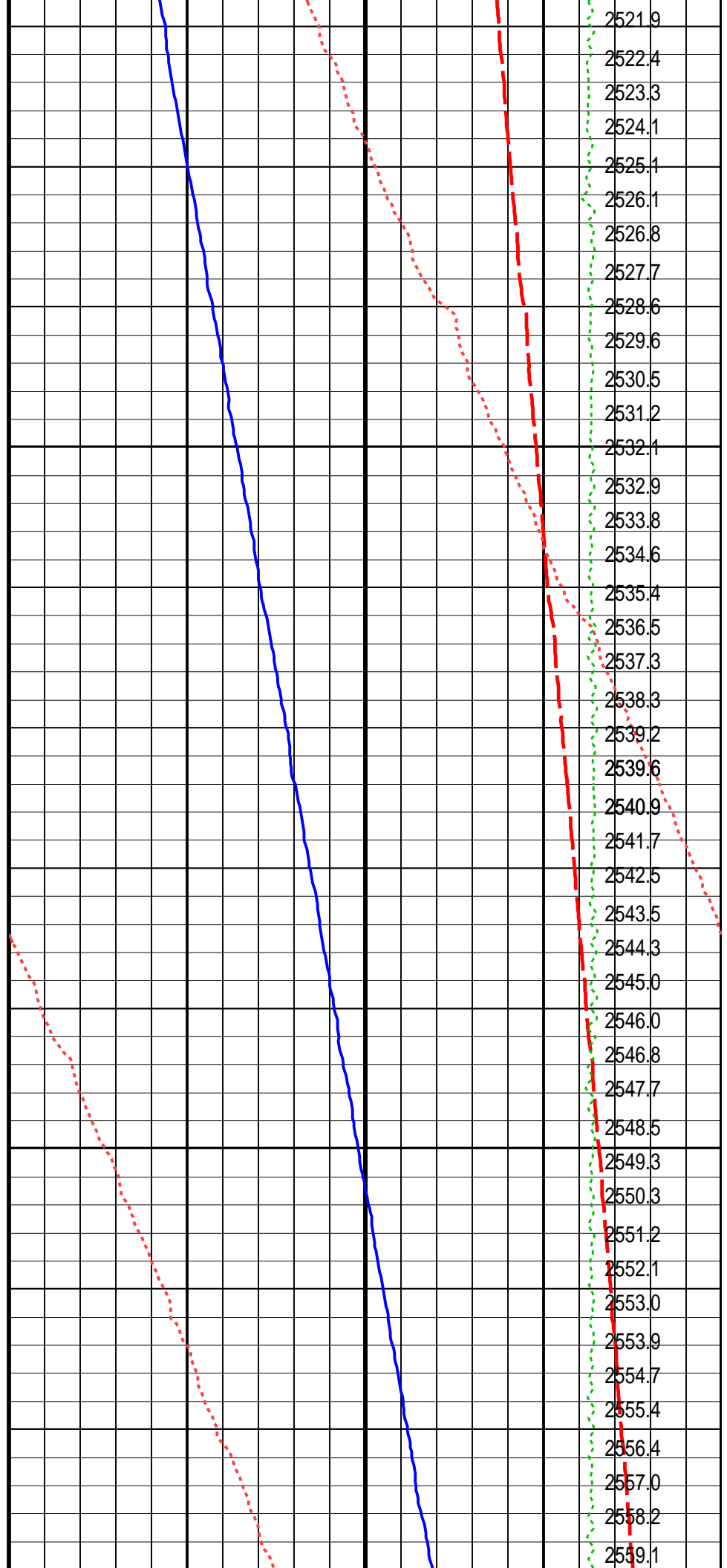
Time Mark Every 60 S

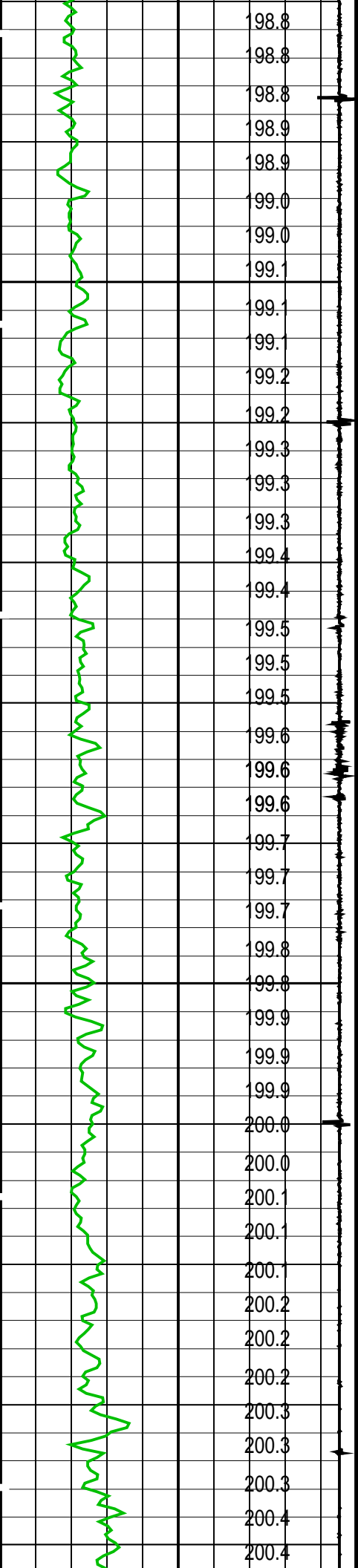




3125

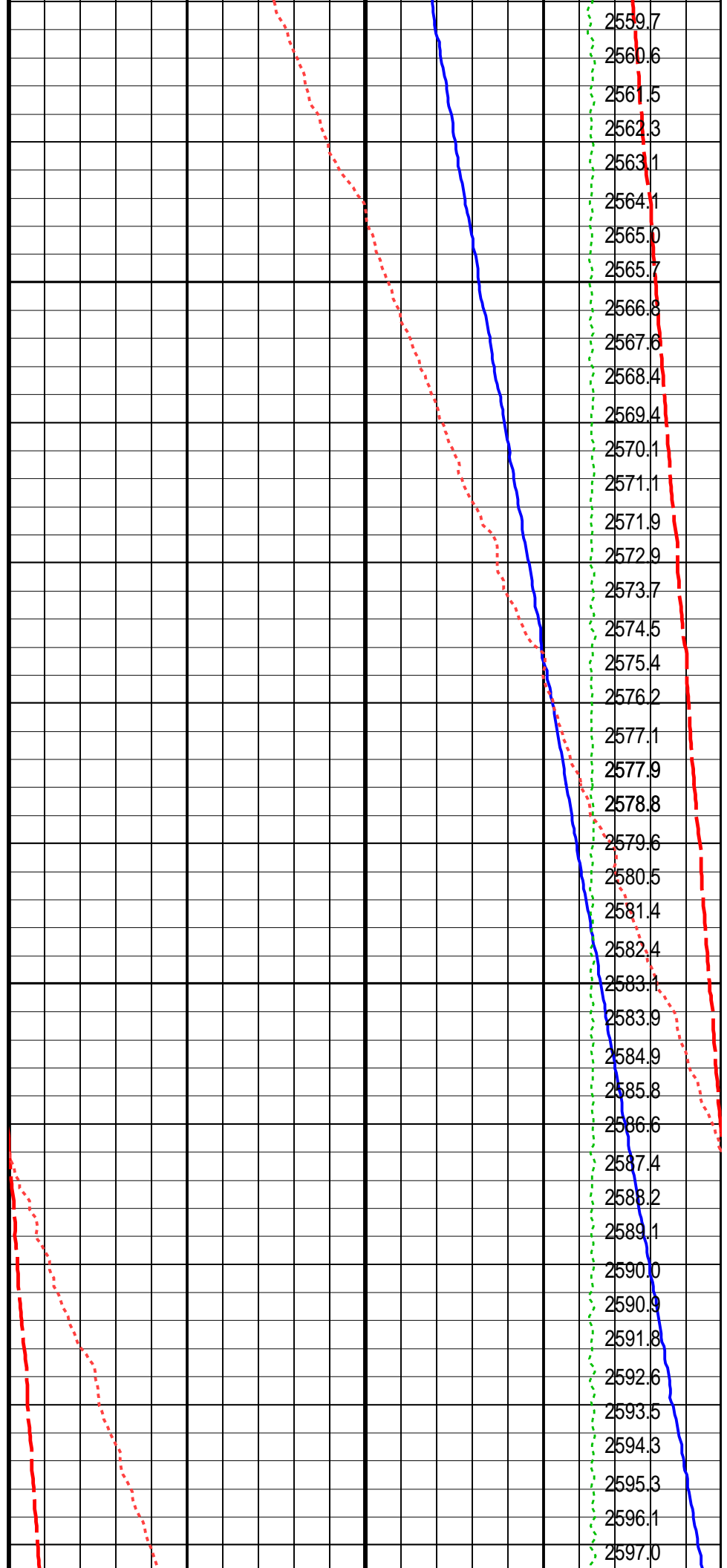
3150

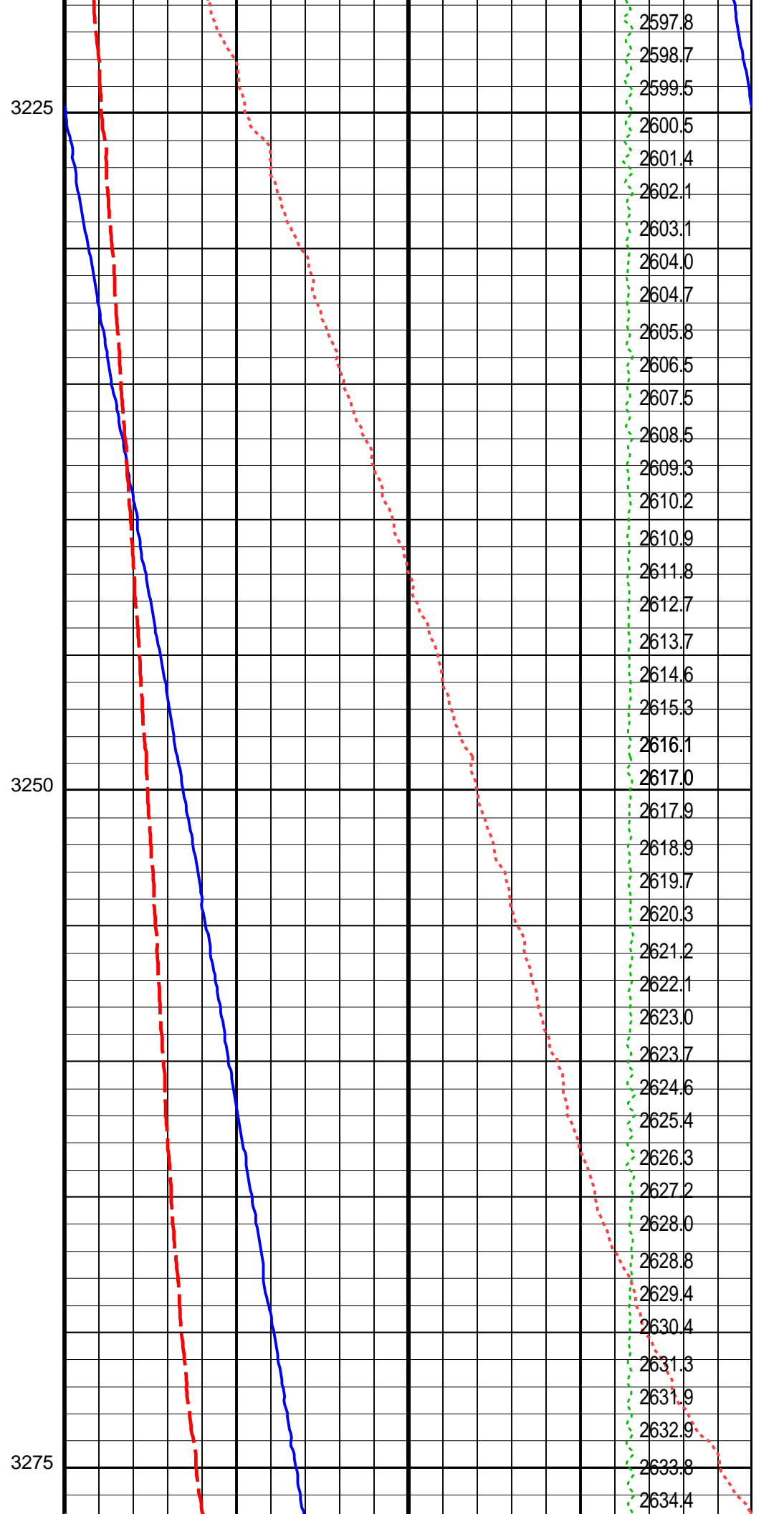
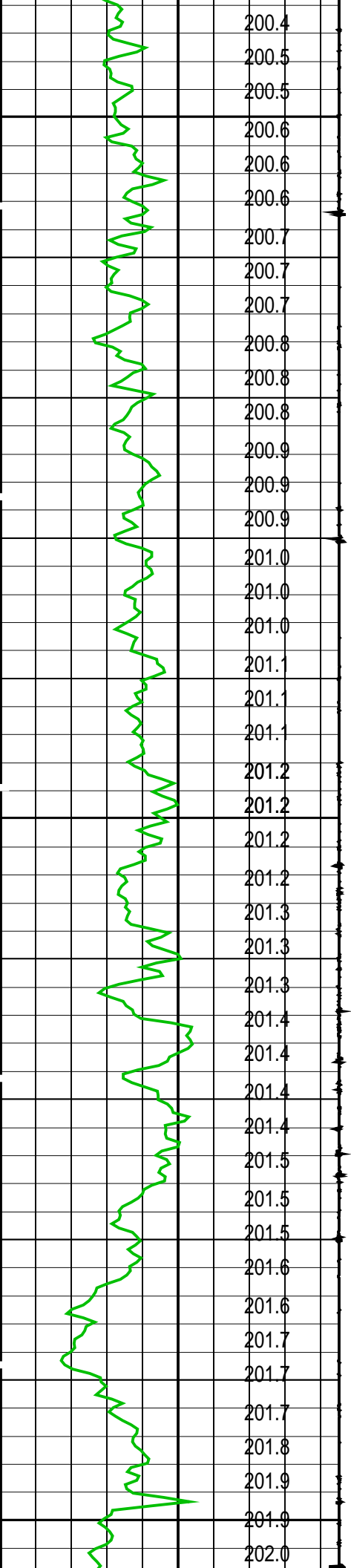


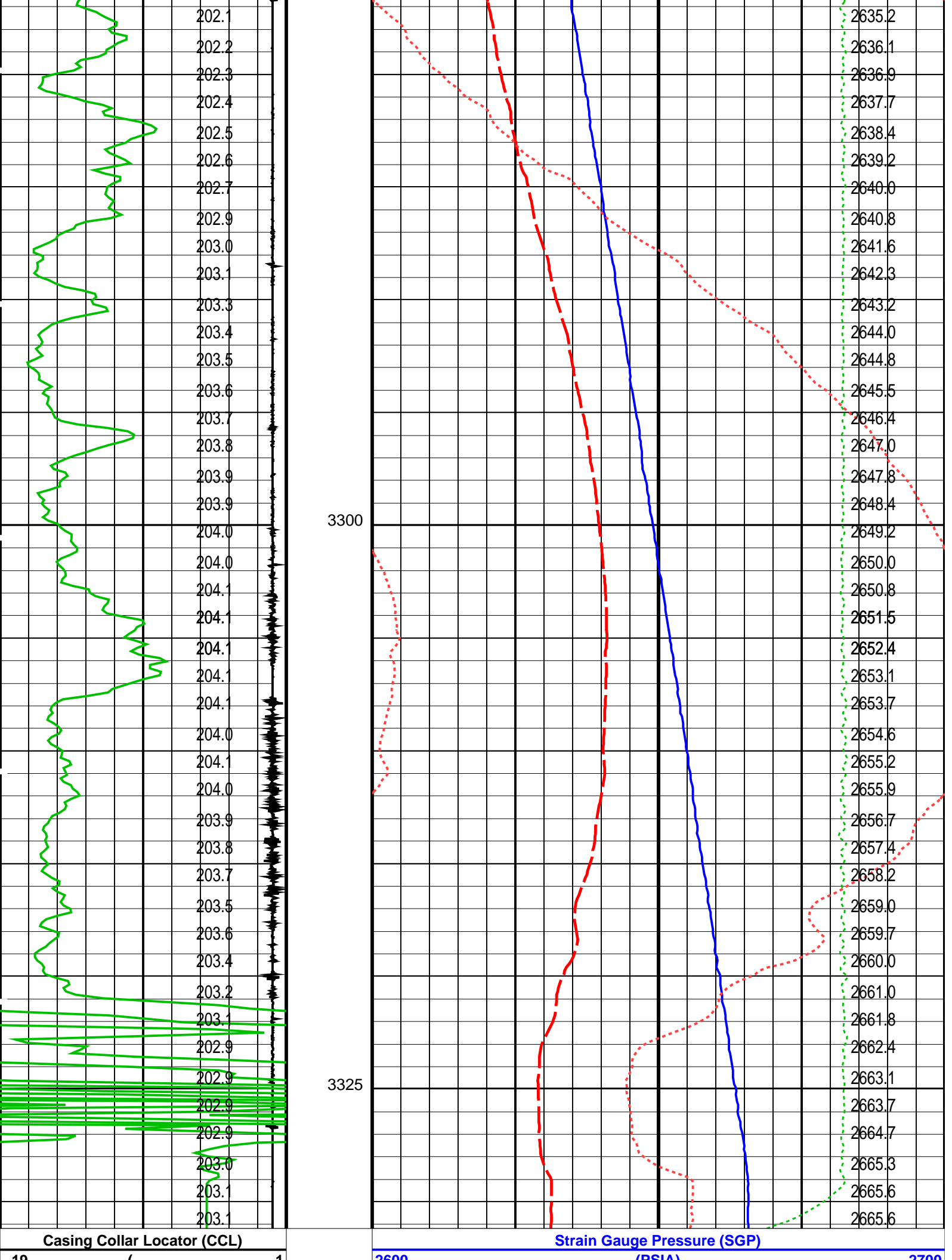


3175

3200







Gamma Ray (GR) (GAPI)		2000	Temperature (TEMP_MWPT) (DEGF)		2700
0	150	200	Temperature (TEMP_MWPT) (DEGF)		210
CCL From CCL to T1		0	Tension (TENS) (LBF)		2
Temperature (TEMP_MWPT) (DEGF)		0	Pressure (SGP) (PSIA)		2500


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	2.0	M
PP	Playback Processing	NORMAL	

Format: MWP	Vertical Scale: 1:200	Graphics File Created: 15-Jun-2007 18:11
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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_062LUP	FN:61	PRODUCER	15-Jun-2007 17:47	3329.2 M 3090.4 M
Output DLIS Files					
DEFAULT	PERFO_063PUP	FN:62	PRODUCER	15-Jun-2007 18:11	

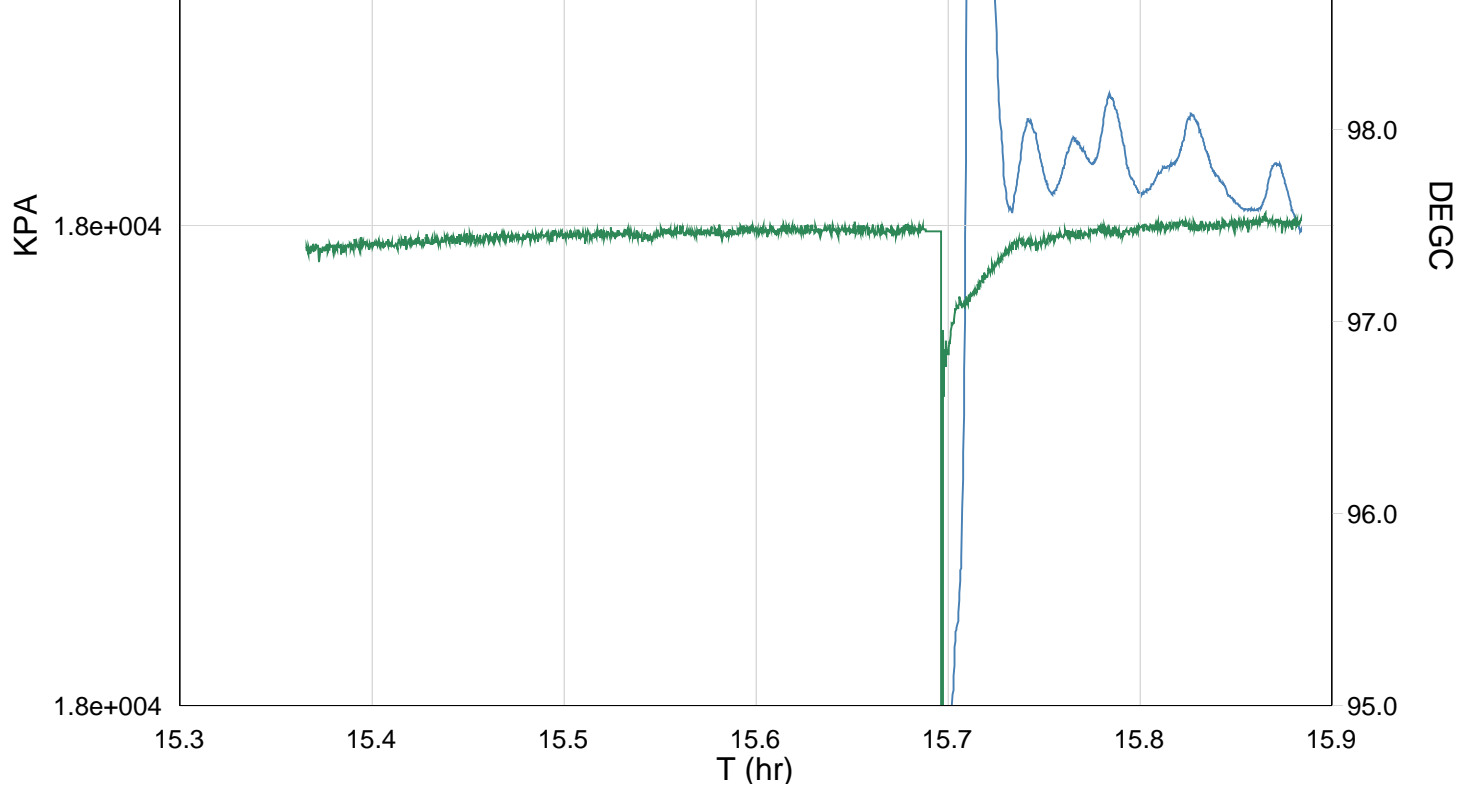


GUN # 1

3307.8m to 3313.8m MDKB

MAXIS Field Log





TIME	DEGF	PSIA
5040.0	207.67	2654.314
4980.0	207.66	2654.334
4920.0	207.80	2654.219
4860.0	208.50	2654.187
4800.0	208.04	2654.199
4740.0	207.95	2654.122
4680.0	208.23	2654.091
4620.0	208.17	2653.890
4560.0	208.38	2653.586
4500.0	208.13	2653.309
4440.0	221.45	2652.043
4380.0	202.33	2654.026
4320.0	202.32	2654.107
4260.0	202.33	2654.018
4200.0	202.33	2653.938
4140.0	202.35	2654.046
4080.0	202.35	2654.071
4020.0	202.36	2654.103
3960.0	202.32	2653.998
3900.0	202.32	2653.970
3840.0	202.31	2653.814
3780.0	202.26	2653.922
3720.0	202.27	2653.938
3660.0	202.27	2653.998
3600.0	202.28	2653.798
3540.0	202.28	2653.749
3480.0	202.28	2653.769
3420.0	202.28	2653.797
3360.0	202.29	2653.581
3300.0	202.29	2653.621
3240.0	202.30	2653.485
3180.0	202.32	2653.577

Output DLIS Files

DEFAULTPERFO_055LUPFN:54PRODUCER15-Jun-2007 15:17

OP System Version: 14C0-302

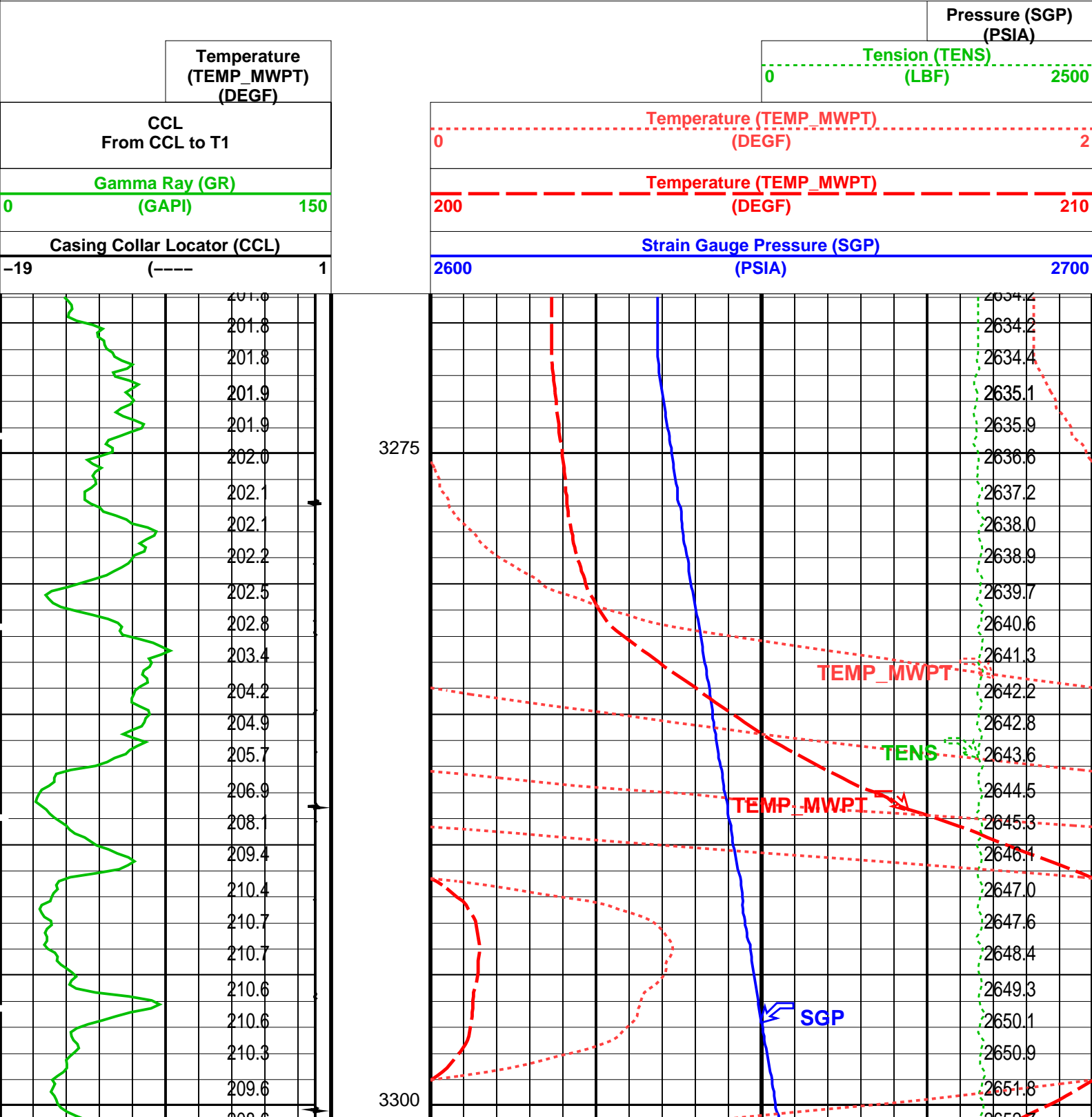
MCM

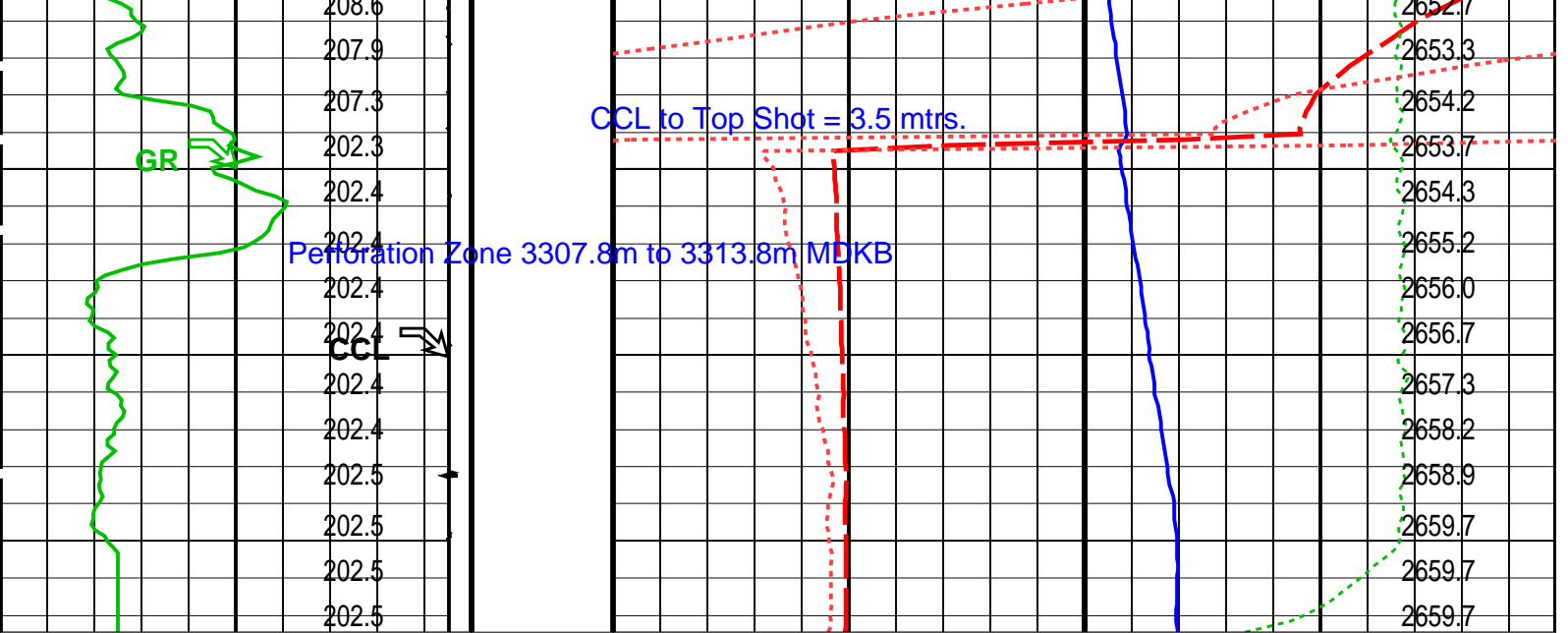
MWP_GUN14C0-302MWPT-CA14C0-302

MWGT-AA14C0-302

PIP SUMMARY

Time Mark Every 60 S





Casing Collar Locator (CCL)		Strain Gauge Pressure (SGP)	
-19 (----) 1		2600 (PSIA) 2700	
Gamma Ray (GR)		Temperature (TEMP_MWPT)	
0 (GAPI) 150		200 (DEGF) 210	
CCL		Temperature (TEMP_MWPT)	
From CCL to T1		0 (DEGF) 2	
Temperature (TEMP_MWPT) (DEGF)		Tension (TENS) (LBF)	
		0 2500	
		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: 15-Jun-2007 15:17

OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Output DLIS Files			
DEFAULT	PERFO_055LUP	FN:54 PRODUCER	15-Jun-2007 15:17

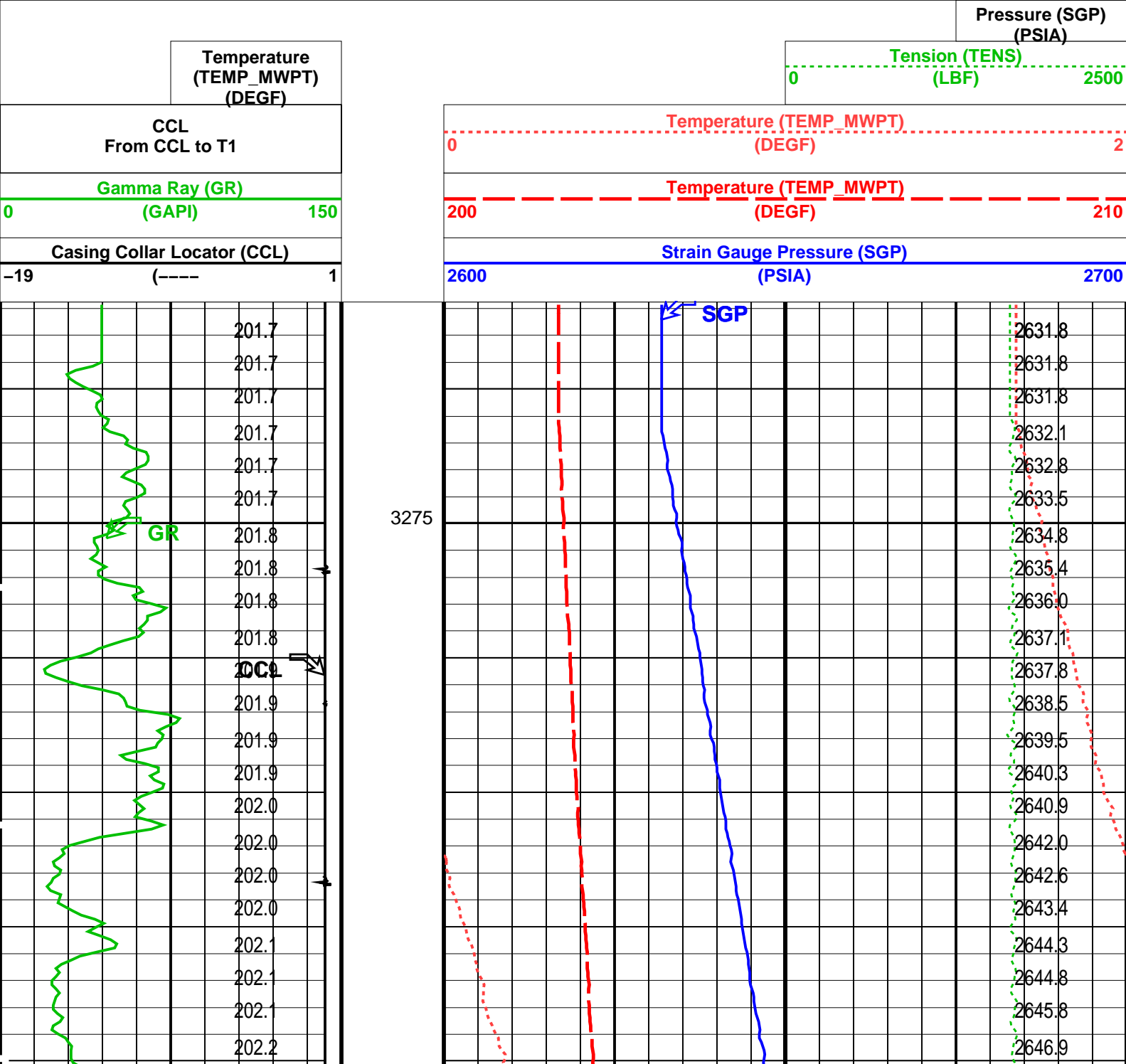


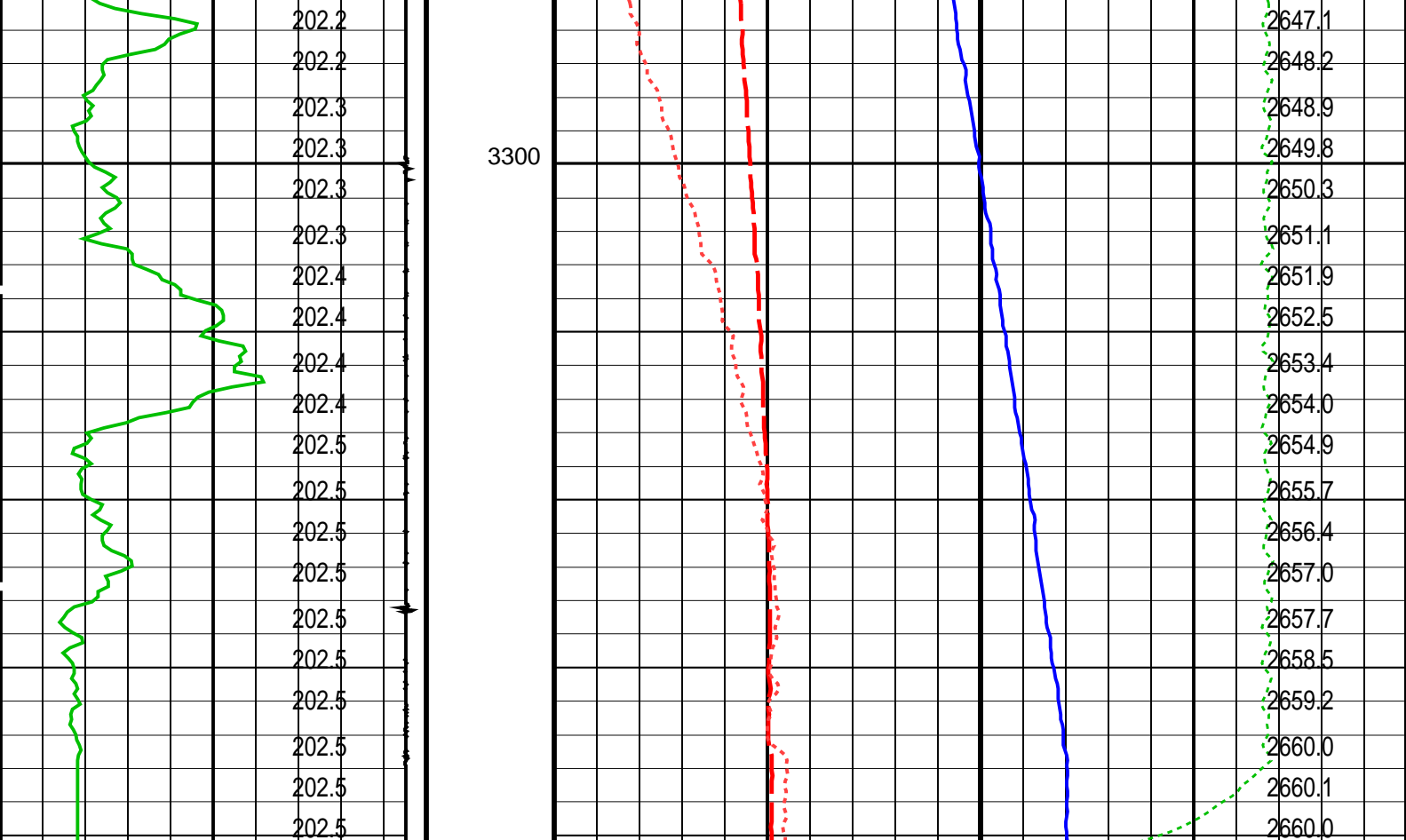
Correlation Pass

Input DLIS Files					
DEFAULT	PERFO_053LUP	FN:52	PRODUCER	15-Jun-2007 15:07	3319.0 M 3267.5 M
Output DLIS Files					
DEFAULT	PERFO_054PUP	FN:53	PRODUCER	15-Jun-2007 15:13	3320.2 M 3266.7 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					





Casing Collar Locator (CCL)		Strain Gauge Pressure (SGP)	
-19	(----) 1	2600	(PSIA) 2700
Gamma Ray (GR)		Temperature (TEMP_MWPT)	
0	(GAPI) 150	200	(DEGF) 210
CCL From CCL to T1		Temperature (TEMP_MWPT)	
Temperature (TEMP_MWPT) (DEGF)		0	(DEGF) 2
		Tension (TENS)	
		0	(LBF) 2500
		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	1.2 M
PP	Playback Processing	NORMAL

Format: MWP Vertical Scale: 1:200 Graphics File Created: 15-Jun-2007 15:13

OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Input DLIS Files						
DEFAULT	PERFO_053I UP	FN-52	PRODUCER	15-Jun-2007 15:07	3319.0 M	3267.5 M

Output DLIS Files

DEFAULT

PERFO_054PUP

FN:53

PRODUCER

15-Jun-2007 15:13

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **A-3**

Field: **Bream A**

Rig : **Prod4 / Crane**

Country: **Australia**

MWPT 2 1/8" Phased
Powerjet Perforation
Record