

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

Rig :
Field: Bream A
Location: Gippsland
Well: A-3
Company: Esso Australia Pty Ltd.

LOCATION

Gippsland
Basin
Bass Strait

Elev.: K.B. 32.82 m
G.L. -59 m
D.F. 32.82 m

Permanent Datum: M.S.L.
Log Measured From: D.F.
Drilling Measured From: D.F.

Elev.: 0 m
32.8 m above Perm. Datum

State: Victoria

Max. Well Deviation 73 deg

Longitude 147 46'15"E

Latitude 038 30'04"S

Logging Date	5-Jul-2007		
Run Number	One		
Depth Driller	3311.5 m		
Schlumberger Depth	3311.5 m		
Bottom Log Interval	3311.5 m		
Top Log Interval	3250 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level	2960 m		
BIT/CASING/TUBING STRING			
Bit Size	6.750 in		
From			
To			
Casing/Tubing Size	5.000 in		
Weight	18 lbm/ft		
Grade	L-80		
From	3114 m		
To	3391 m		
Maximum Recorded Temperatures	209 degF		
Logger On Bottom	5-Jul-2007		12:00
Unit Number	889	Prod4 / Ausl	
Recorded By	G Wright.		
Witnessed By	G Rimmer.		

PVT DATA			Run 1
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			
Witnessed By			

DEPTH SUMMARY LISTING

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
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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






















REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil composite supplied with logging program.
Objective: Perforate the well using MWPT and a 3.5m – 6spf 45deg Phased
Powerjet gun over the interval 3299.2m MDKB to 3302.7m MDKB .
Maximum Well Deviation : 73deg @ 3414m MDKB
H2s = 280ppm.
Before Perforation– SBHP: 2621 psia SBHT: 206 degf
After Perforation– SBHP: 2624 psia SBHT: 209 degf
Prior to the perforation a 2 1/8" dummy plug was run

Prior to the penetration a 2 1/8" dummy plug was run to 3311.5m MDKB.					
A 5" HPI plug was then set @ 3305m MDKB					
Crew : Jake Annear,Chris Shiells.					

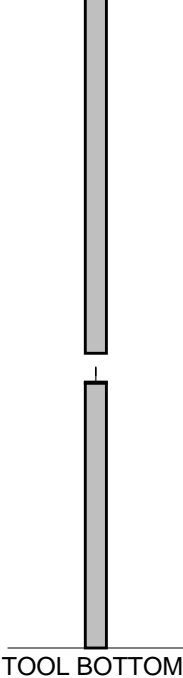
RUN 1			RUN 2		
SERVICE ORDER #:		AUSL07484945	SERVICE ORDER #:		
PROGRAM VERSION:		14C0-302	PROGRAM VERSION:		
FLUID LEVEL:		2960 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT			SURFACE EQUIPMENT		
WITM (SHM) 1			MWPM-. 3000		

DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
EQF-SWBS-B 761		14.34	AH-SWBS-B 731		14.88
EQF-SWBS-B 762		13.66	AH-SWBS-B 761		14.19
EQF-SWBS-B 763		12.97	AH-SWBS-B 762		13.50
		12.29	AH-SWBS-B 763		12.82
CCL-L 4191	Tension CCL  — TOOL ZERO	11.96			12.13
		11.50 11.50	AH-124 7002		11.80
AH-Electro Hydraulic Actuator 1		11.35	MWPG-AA 24029 MWGH-AA 69	MWPG GR  — 2.41	11.60
AH-Filter Section 1		10.80			
AH-Snorkel Section 1		10.02	MWPH-AA 74 MWPS-AA 74		10.62
				CCL SMWP Pres SMWP Temp Tension  — TOOL ZERO	
			AH-Flex Joint 41		7.80
AH-Hydraulic Section 2		7.49	AH-122 8		7.24
			AH-SAH-G 1047		7.14
			MPD-MB 268		6.68

AH-2.13" HPI Plug 1

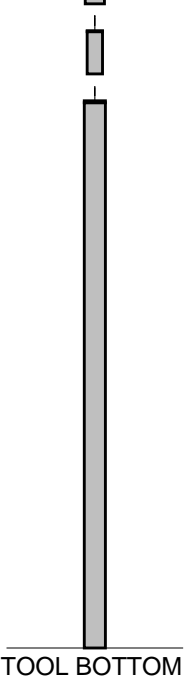


2.61

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

AH-ESIC 26031944

GUN-3.5m Phased Powerjet Gun 1

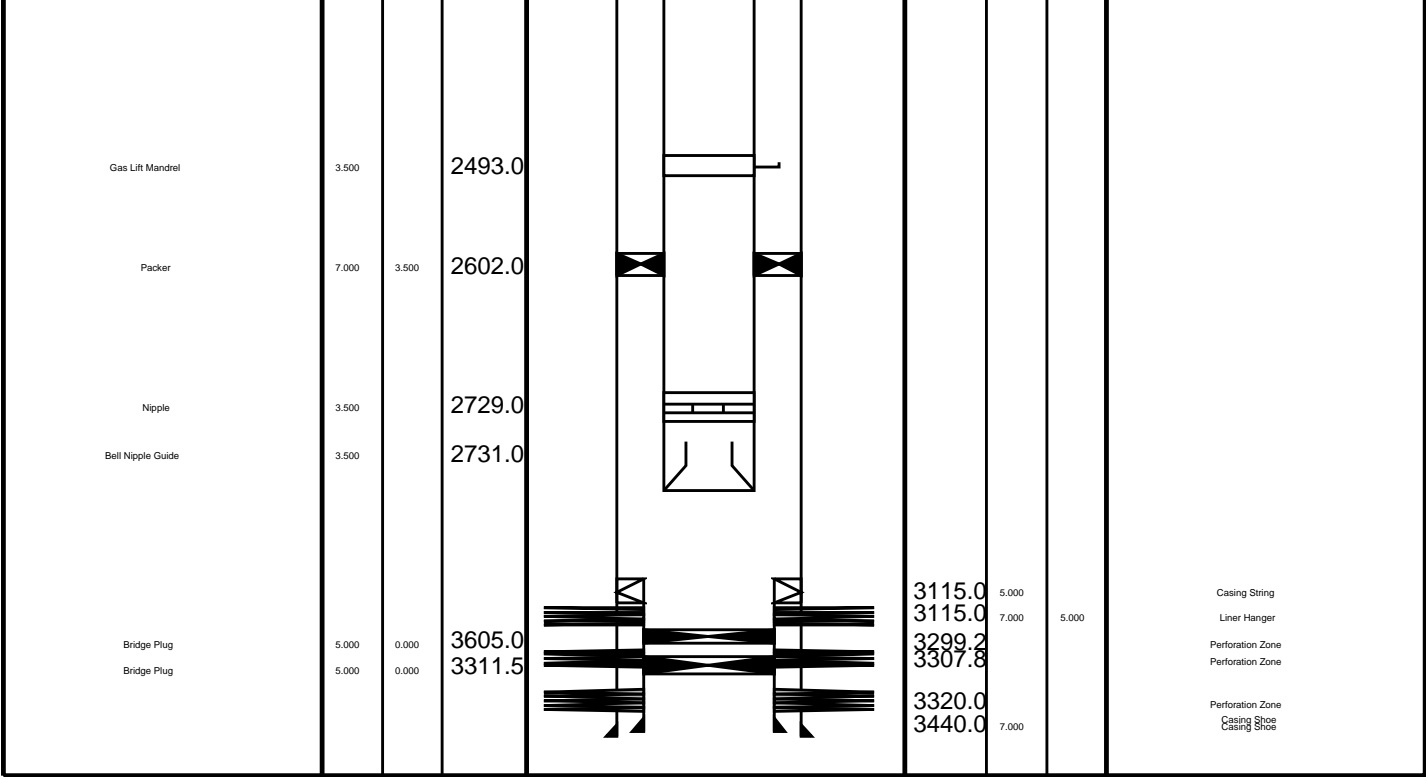


6.15

5.69

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	3.500	11.6		11.0	10.000	7.000	Casing String
					11.0	10.750		Liner Hanger
Shut-in Valve	3.500		455.0					
Gas Lift Mandrel	3.500		568.0					
					994.0	10.750		Casing Shoe
Gas Lift Mandrel	3.500		1141.0					



Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Log Pass (down)	5-Jul-2007 13:19 001:33	-4.3 - 3334.7	PSP_102LDP
Log Pass (up)	5-Jul-2007 14:52 000:14	3334.7 - 3217.0	PSP_103LUP
Log Pass (up)	5-Jul-2007 15:29 000:31	1820.6 - -13.3	PSP_108LUP
Simulated Log	5-Jul-2007 16:35 000:01		PERFO_109LUP
Simulated Log	5-Jul-2007 16:37 000:03		PERFO_110LUP
Log Pass (down)	6-Jul-2007 8:48 000:47	382.2 - 3294.3	PERFO_113LDP
Log Pass (up)	6-Jul-2007 9:35 000:02	3294.0 - 3270.8	PERFO_114LUP
Log Pass (up)	6-Jul-2007 9:38 000:05	3305.6 - 3255.1	PERFO_115LUP
Log Pass (up)	6-Jul-2007 9:45 000:20	3306.5 - 3264.4	PERFO_116LUP
Station Log	6-Jul-2007 9:48 000:13	3295.7 - 2.0	PERFO_117LTP
Log Pass (up)	6-Jul-2007 10:08 000:11	3248.3 - 2565.7	PERFO_118LUP
Simulated Log	6-Jul-2007 11:21 000:02		PERFO_123LUP
Log Pass (down)	6-Jul-2007 12:09 001:00	-1.4 - 3286.5	PERFO_124LDP
Log Pass (up)	6-Jul-2007 13:09 000:01	3286.5 - 3272.8	PERFO_125LUP
Log Pass (up)	6-Jul-2007 13:11 000:02	3279.2 - 3242.2	PERFO_126LUP
Log Pass (up)	6-Jul-2007 13:15 000:08	3299.2 - 3258.0	PERFO_127LUP
Log Pass (up)	6-Jul-2007 13:22 000:03	3299.2 - 3258.0	PERFO_128LUP

Schlumberger

Tag Plug @ 3305m MDKB.

MAXIS Field Log

Output DLIS Files

DEFAULT	PERFO_128LUP	FN:126	PRODUCER	06-Jul-2007 13:26	3298.5 M	3222.0 M
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OP System Version: 14C0-302

MCM

SHM_GUN	14C0-302	CCL-L	14C0-302
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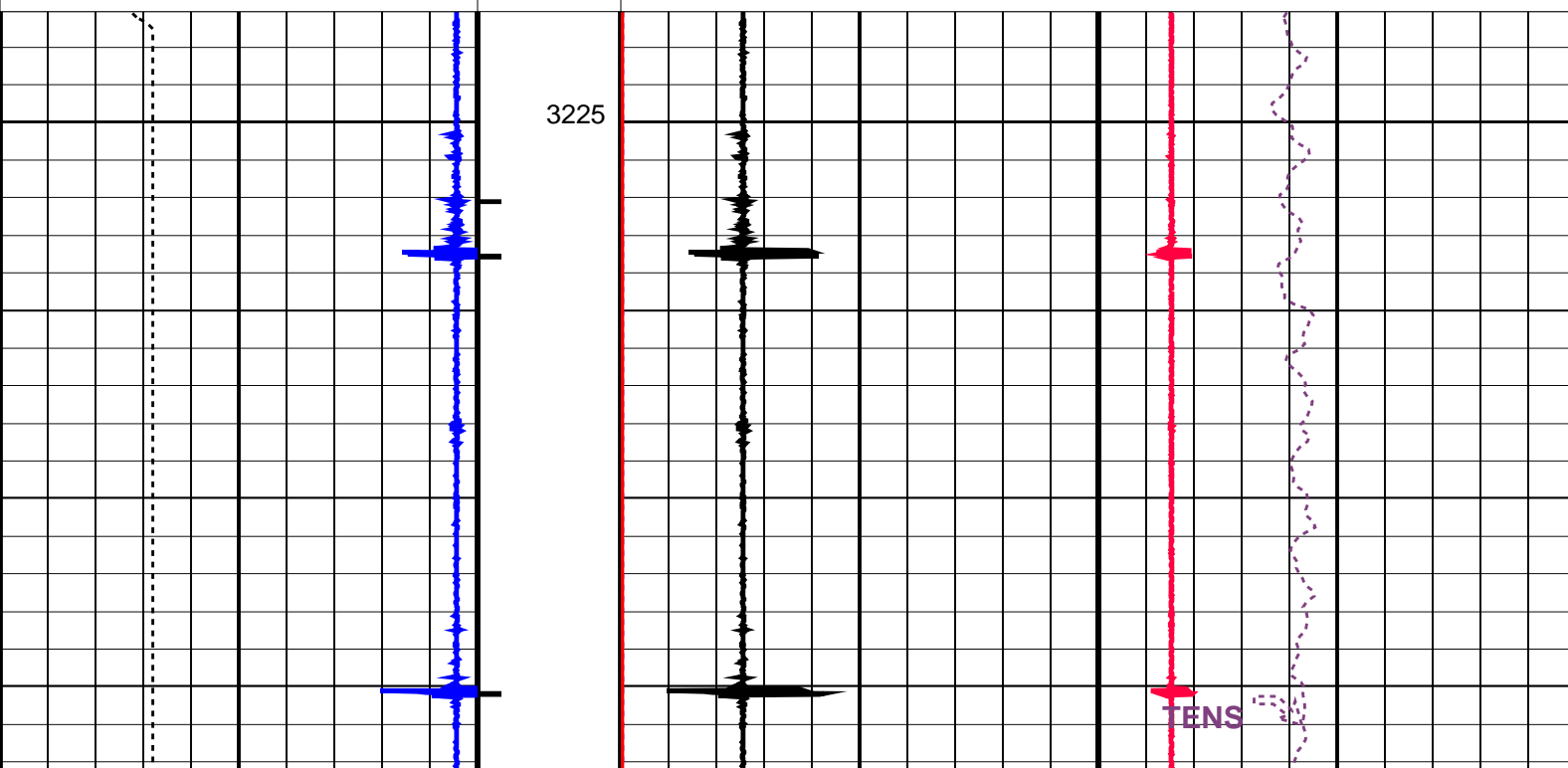
PIP SUMMARY

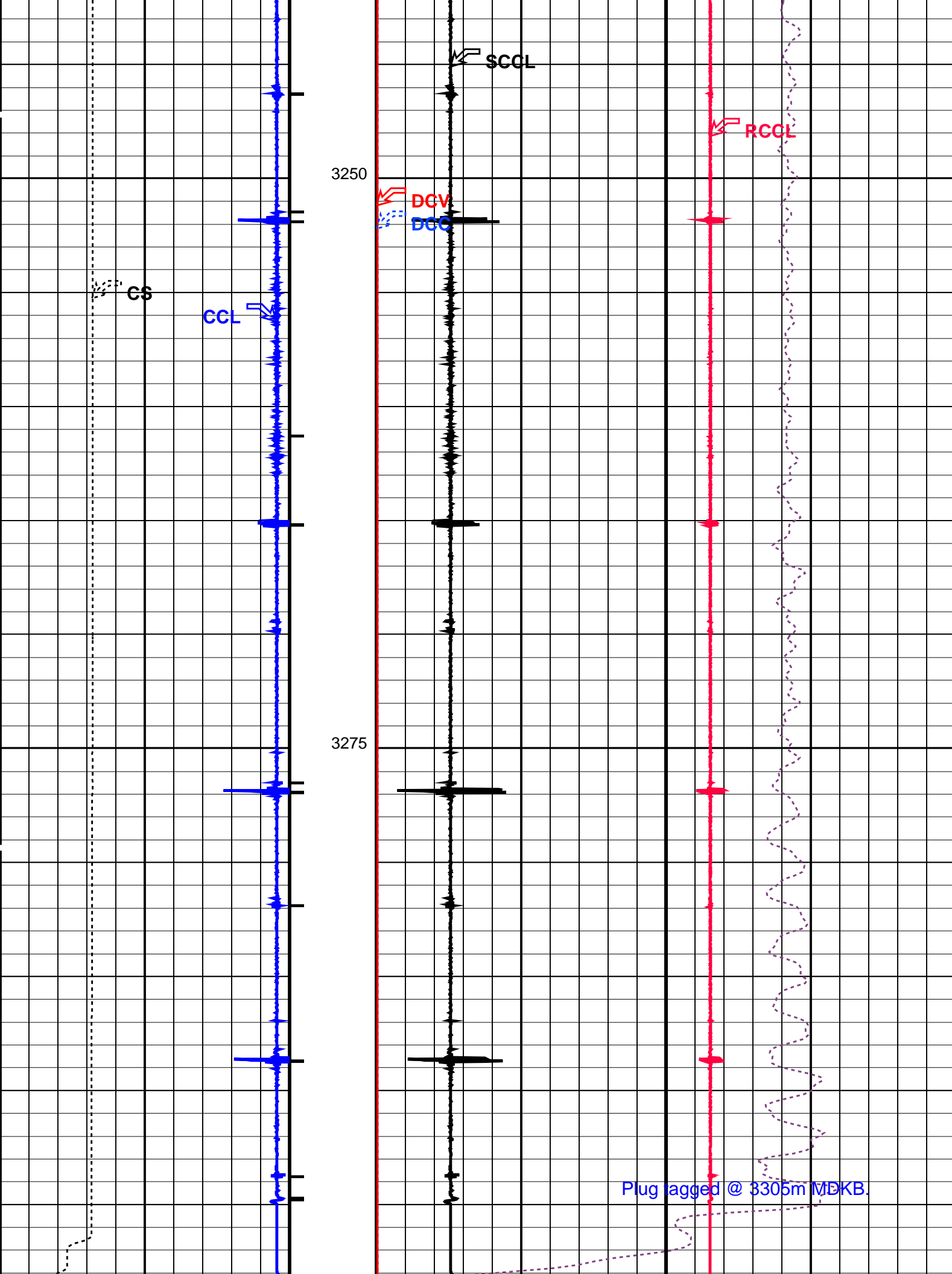
└─ Casing Collars

Time Mark Every 60 S

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Casing Collar Locator (CCL)		
-19	(----	1
Cable Speed (CS)		
(F/HR)		
0		20000






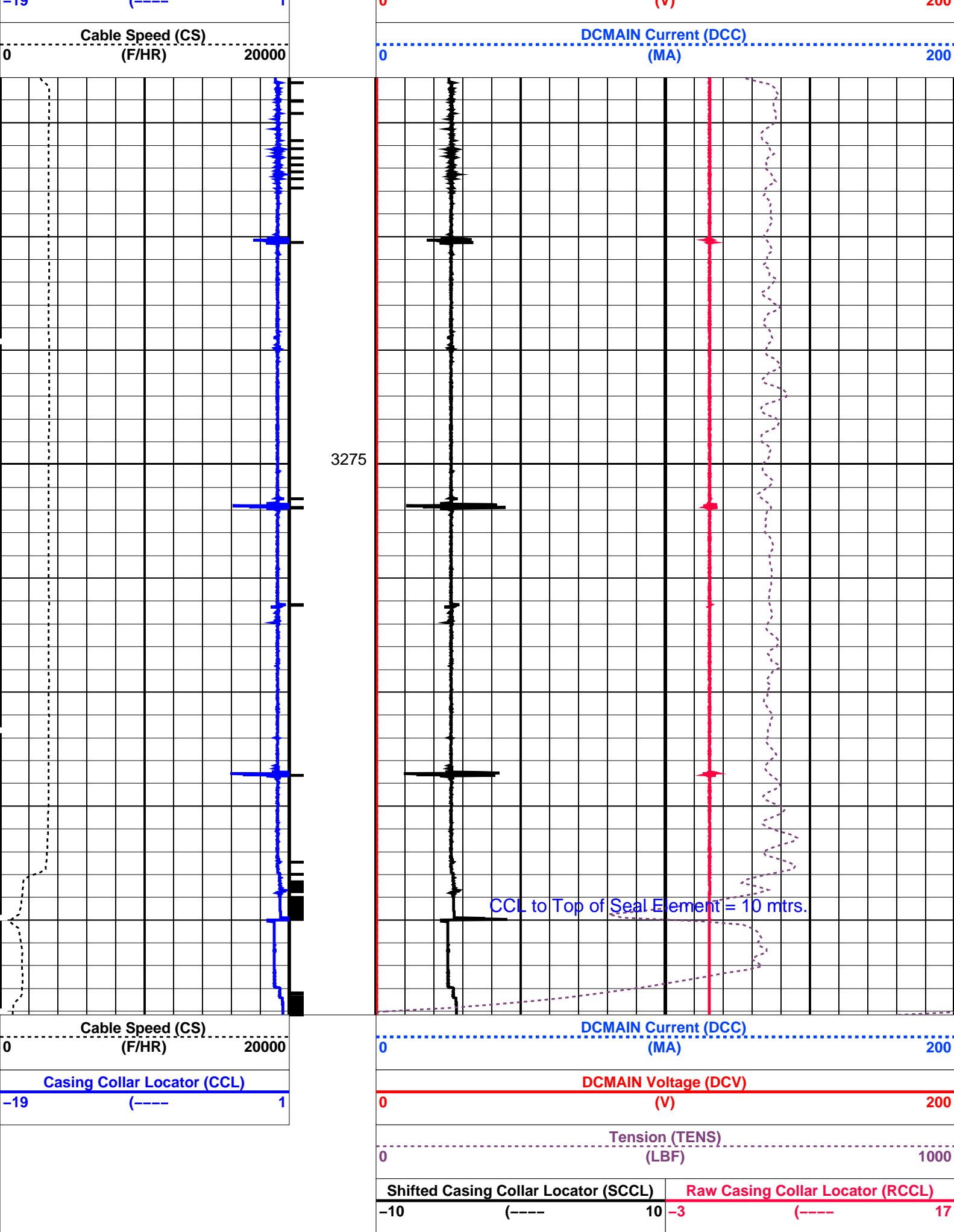
Cable Speed (CS) (F/HR)		20000	DCMAIN Current (DCC) (MA)		200
Casing Collar Locator (CCL) (----)		1	DCMAIN Voltage (DCV) (V)		200
-19			Tension (TENS) (LBF)		1000
			Shifted Casing Collar Locator (SCCL)		Raw Casing Collar Locator (RCCL)
			-10 (----) 10		-3 (----) 17

PIP SUMMARY					
<div> <div></div> <div>Time Mark Every 60 S</div> </div> <div> <div></div> <div>Casing Collars</div> </div>					

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: 06-Jul-2007 13:26	
OP System Version: 14C0-302					
MCM					
SHM_GUN	14C0-302	CCL-L	14C0-302		
Output DLIS Files					
DEFAULT	PERFO_128LUP	FN:126	PRODUCER	06-Jul-2007 13:26	

	<div>7" HPI PSP Plug Set @ 3305m MDKB</div>
MAXIS Field Log	

Output DLIS Files					
DEFAULT	PERFO_127LUP	FN:125	PRODUCER	06-Jul-2007 13:15	3299.2 M 3258.0 M
OP System Version: 14C0-302					
MCM					
SHM_GUN	14C0-302	CCL-L		14C0-302	
PIP SUMMARY					
└─ Casing Collars					
Time Mark Every 60 S					
		Shifted Casing Collar Locator (SCCL)		Raw Casing Collar Locator (RCCL)	
		-10 (---- 10		-3 (---- 17	
		Tension (TENS) (LBF)			
		0 1000			
Casing Collar Locator (CCL)		DCMAIN Voltage (DCV)			
19 (---- 1		2 (V) 200			



PIP SUMMARY

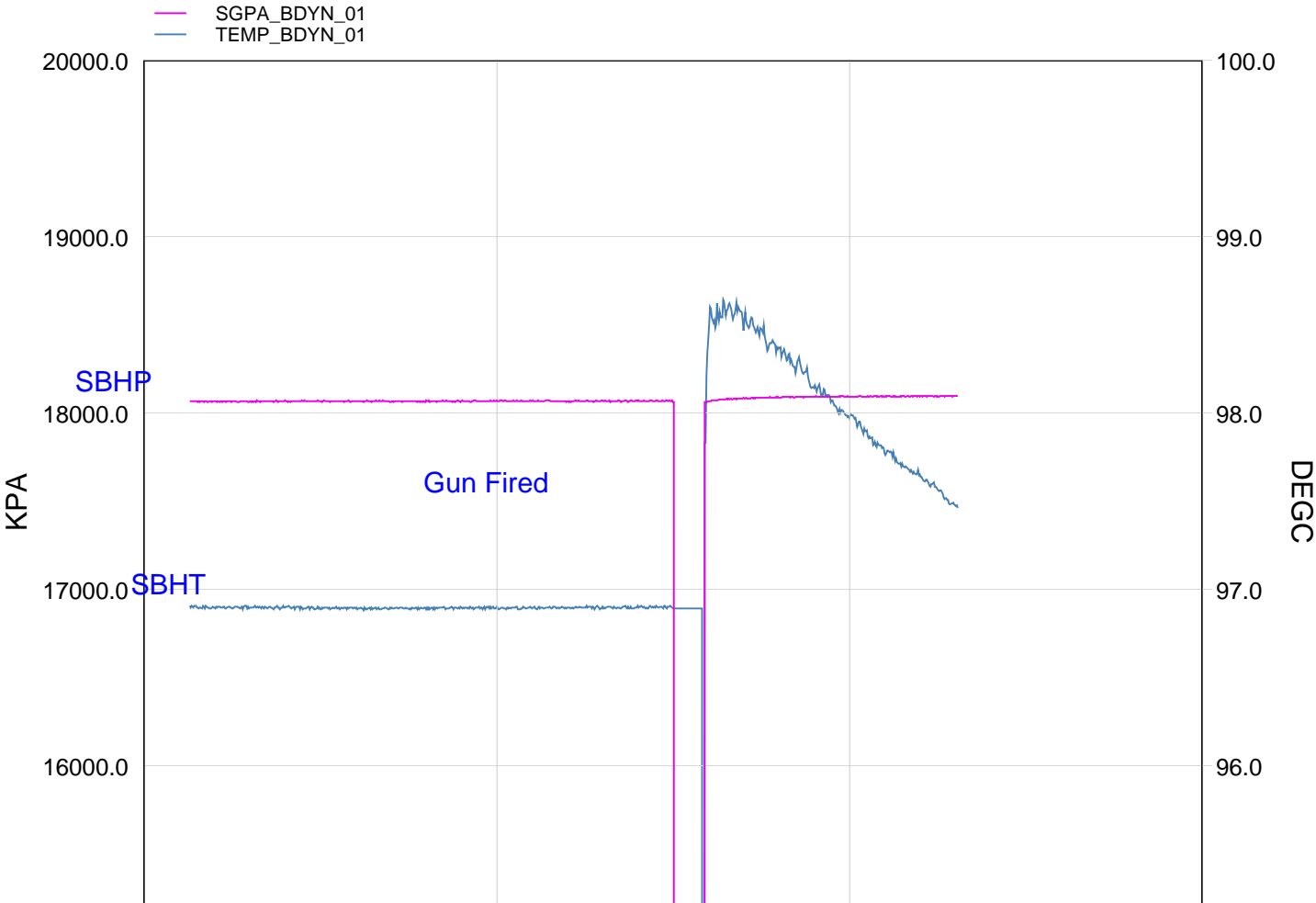
└─ Casing Collars

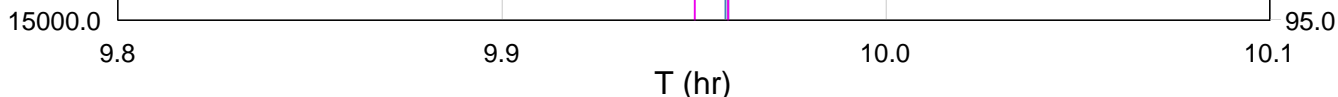
Parameters				
DLIS Name		Description	Value	
CCL-L: Casing Collar Locator				
CCLD		CCL reset delay	12	IN
CCLT		CCL Detection Level	0.3	V
Format: PERFO	Vertical Scale: 1:200		Graphics File Created: 06-Jul-2007 13:15	
OP System Version: 14C0-302				
MCM				
SHM_GUN	14C0-302	CCL-L	14C0-302	
Output DLIS Files				
DEFAULT	PERFO_127LUP	FN:125	PRODUCER	06-Jul-2007 13:15

Schlumberger

Gun # 1
3299.2m to 3302.7m MDKB

MAXIS Field Log





TIME	DEGF	PSIA
4500.0	207.54	2625.411
4440.0	207.99	2624.769
4380.0	208.58	2624.613
4320.0	209.05	2623.743
4260.0	209.19	2621.073
4200.0	206.43	2620.753
4140.0	206.42	2620.770
4080.0	206.42	2620.773
4020.0	206.42	2620.897
3960.0	206.41	2620.905
3900.0	206.41	2620.635
3840.0	206.43	2620.791
3780.0	206.42	2620.266
3720.0	206.43	2620.948

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

Output DLIS Files

DEFAULT PERFO_116LUP FN:114 PRODUCER 06-Jul-2007 09:45 3306.5 M 3264.4 M

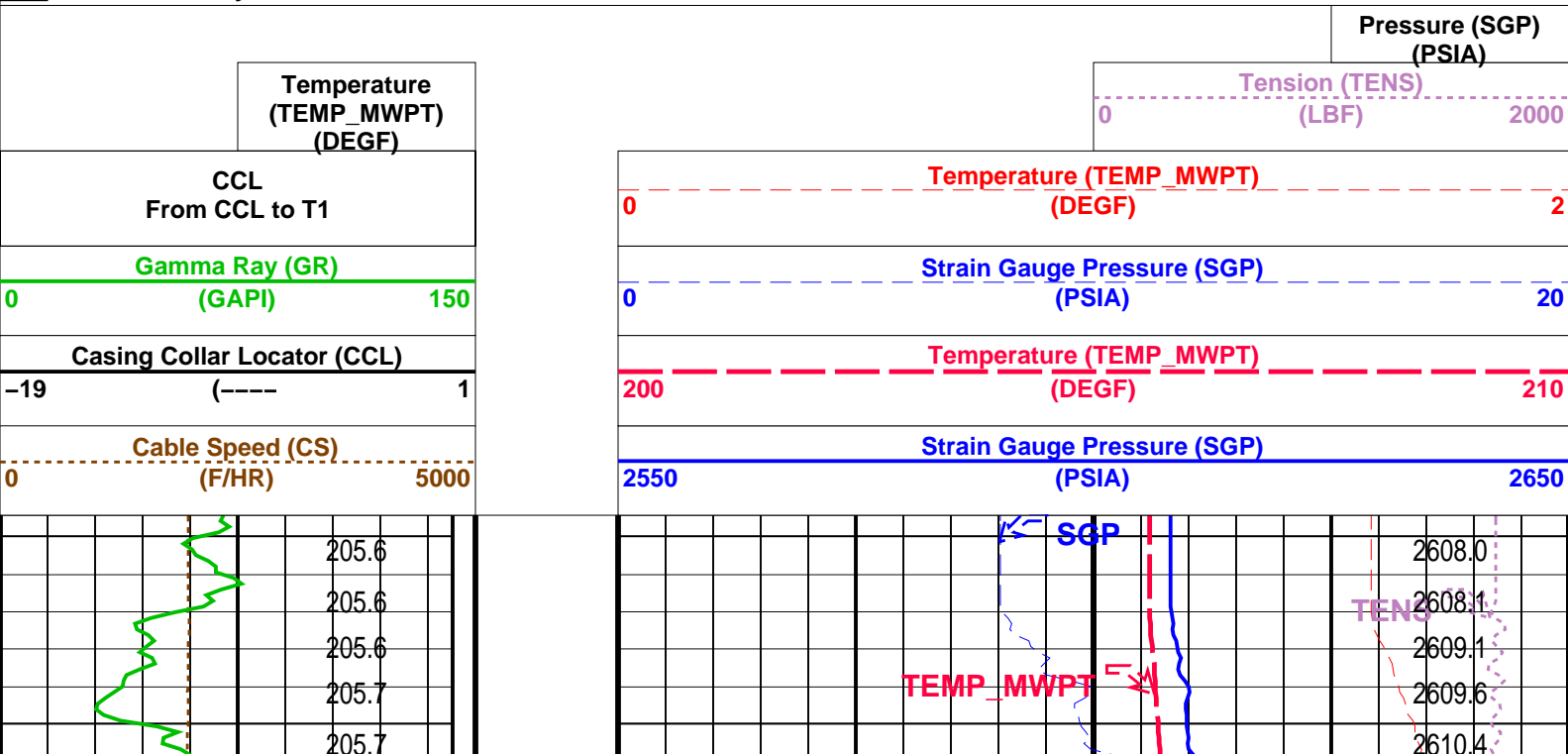
OP System Version: 14C0-302

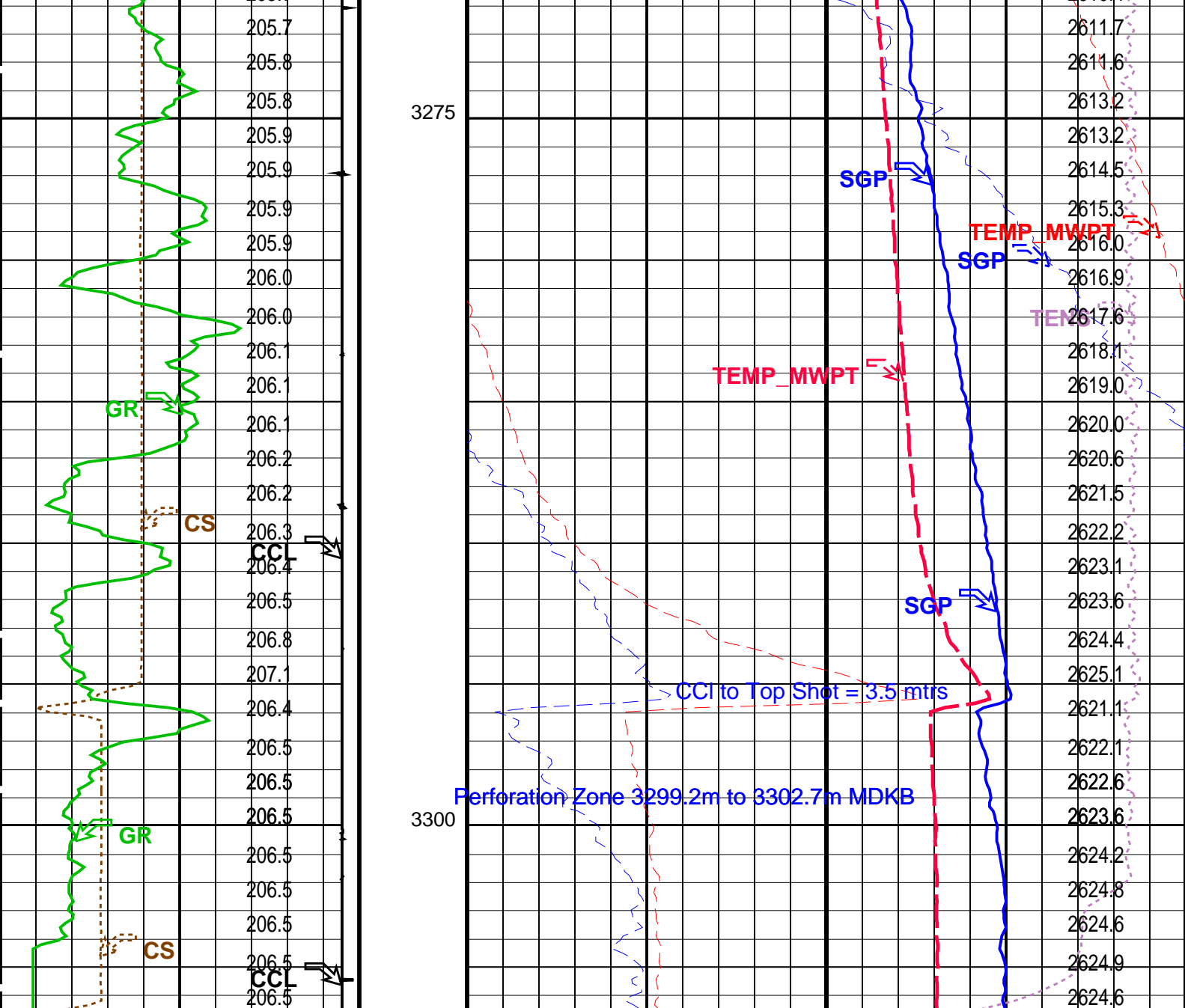
MCM

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

PIP SUMMARY

Time Mark Every 60 S





Cable Speed (CS) (F/HR)		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)		2550	2650
Temperature (TEMP_MWPT) (DEGF)		200	210
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

Format: MWP	Vertical Scale: 1:200	Graphics File Created: 06-Jul-2007 09:45
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OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Output DLIS Files			
DEFAULT	PERFO_116LUP	FN:114	PRODUCER 06-Jul-2007 09:45



Gun Correlation Pass

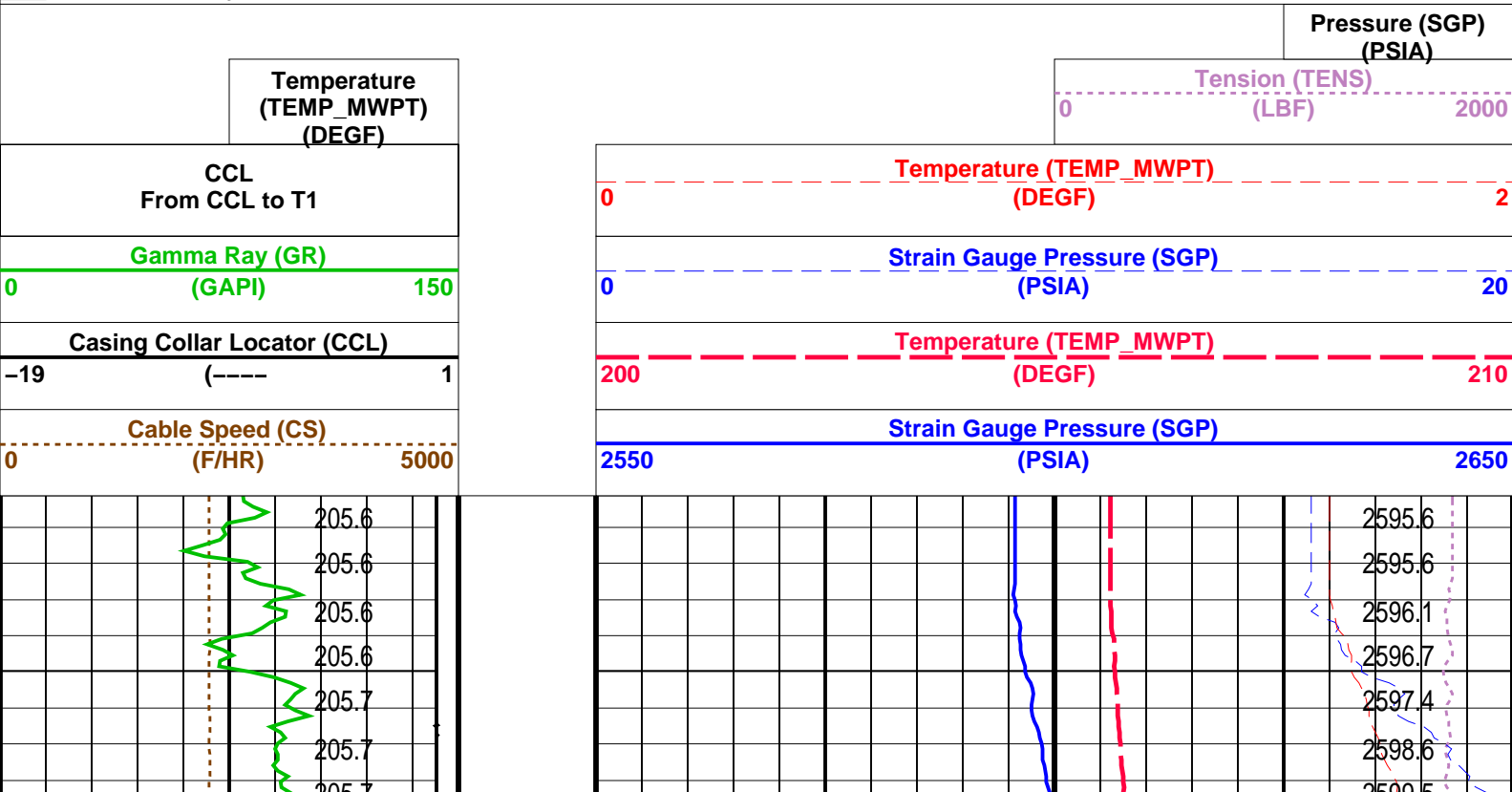
MAXIS Field Log

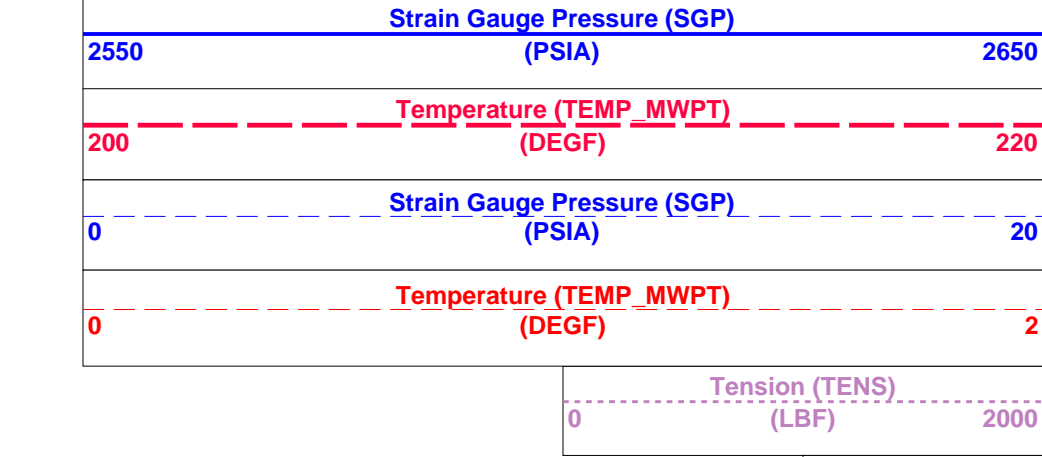
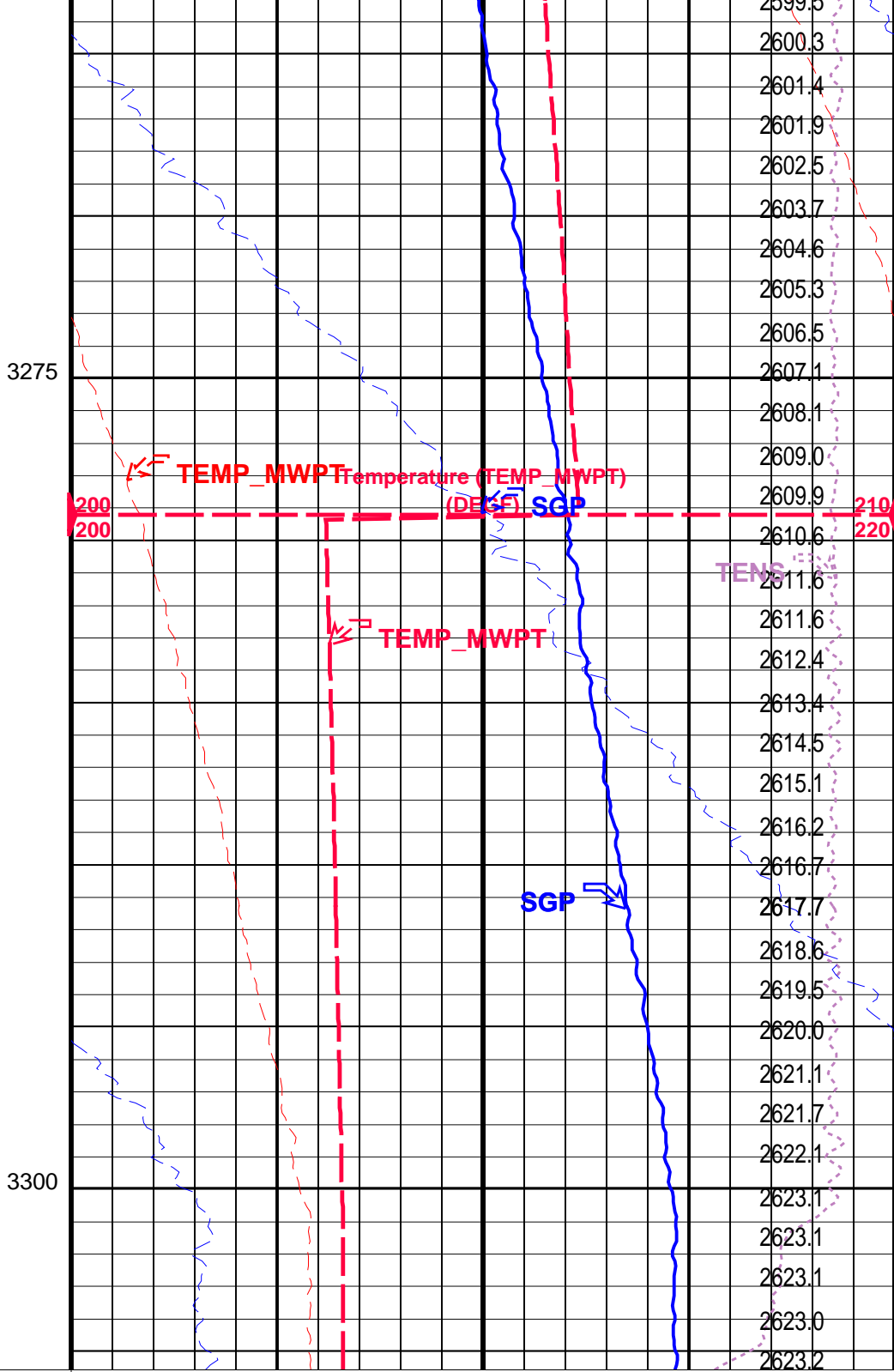
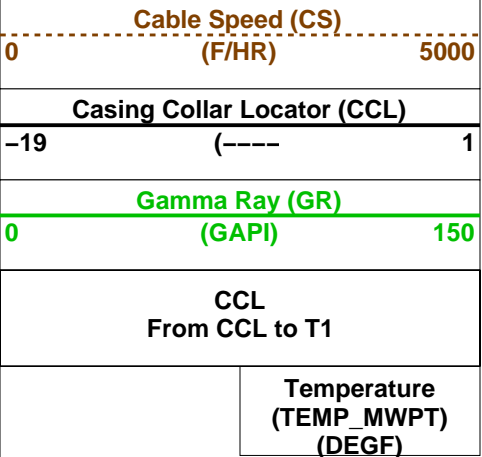
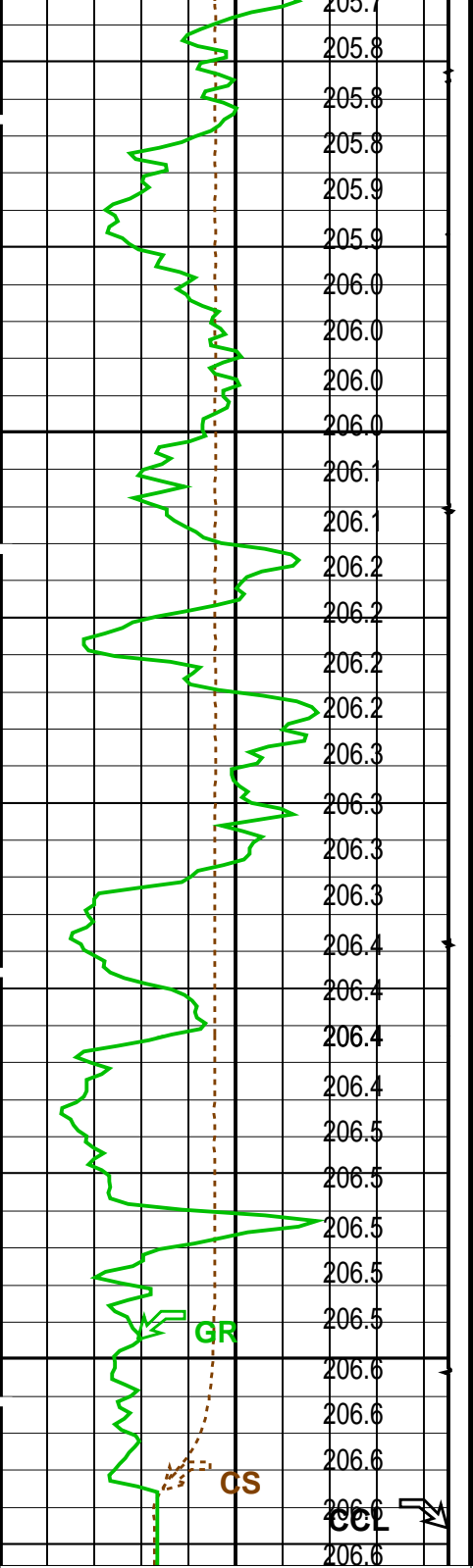
Company: Esso Australia Pty Ltd.	Well: A-3
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Output DLIS Files			
DEFAULT	PERFO_115LUP	FN:113	PRODUCER 06-Jul-2007 09:38
OP System Version: 14C0-302			
MCM			
MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

PIP SUMMARY

Time Mark Every 60 S





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: 06-Jul-2007 09:38

OP System Version: 14C0-302

MCM

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

Output DLIS Files

DEFAULT	PERFO_115LUP	FN:113	PRODUCER	06-Jul-2007 09:38
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Time Mark Every 60 S

Dummy Plug Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-3

Input DLIS Files

DEFAULT	PSP_103LUP	FN:101	PRODUCER	05-Jul-2007 14:52	3334.7 M	3217.0 M
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Output DLIS Files

DEFAULT	PSP_107PUP	FN:105	PRODUCER	05-Jul-2007 15:24	3339.4 M	3219.6 M
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OP System Version: 14C0-302

MCM

PSPT-A/B	14C0-302
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Time Mark Every 60 S

Amplified Well Pressure (WPRE)

0 (PSIA)20

Well Pressure (WPRE)

2600 (PSIA)2700

Well Temperature (WTEP)

0 (DEGF)2

Well Pressure (WPRE) (PSIA)

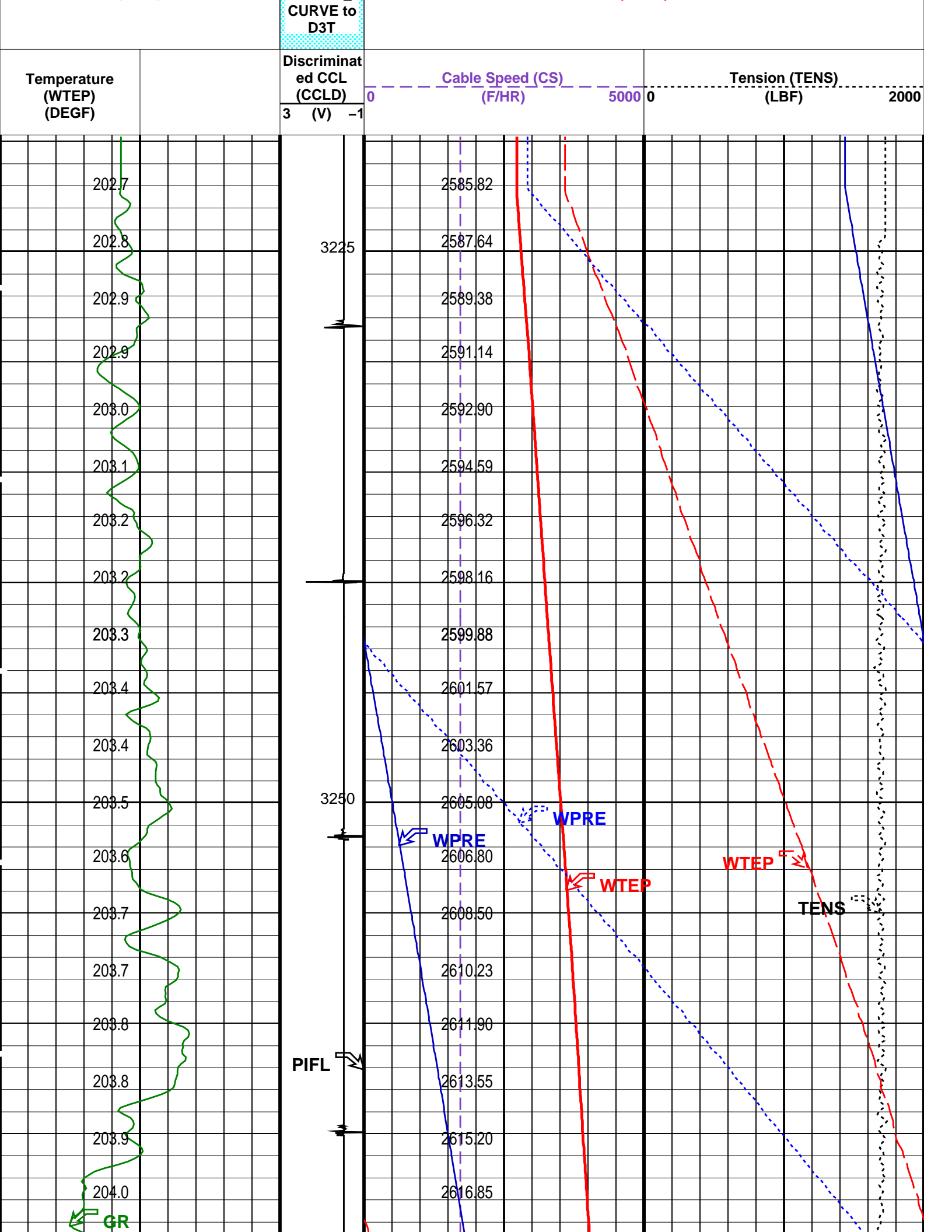
Gamma Ray (GR) (GAPI)

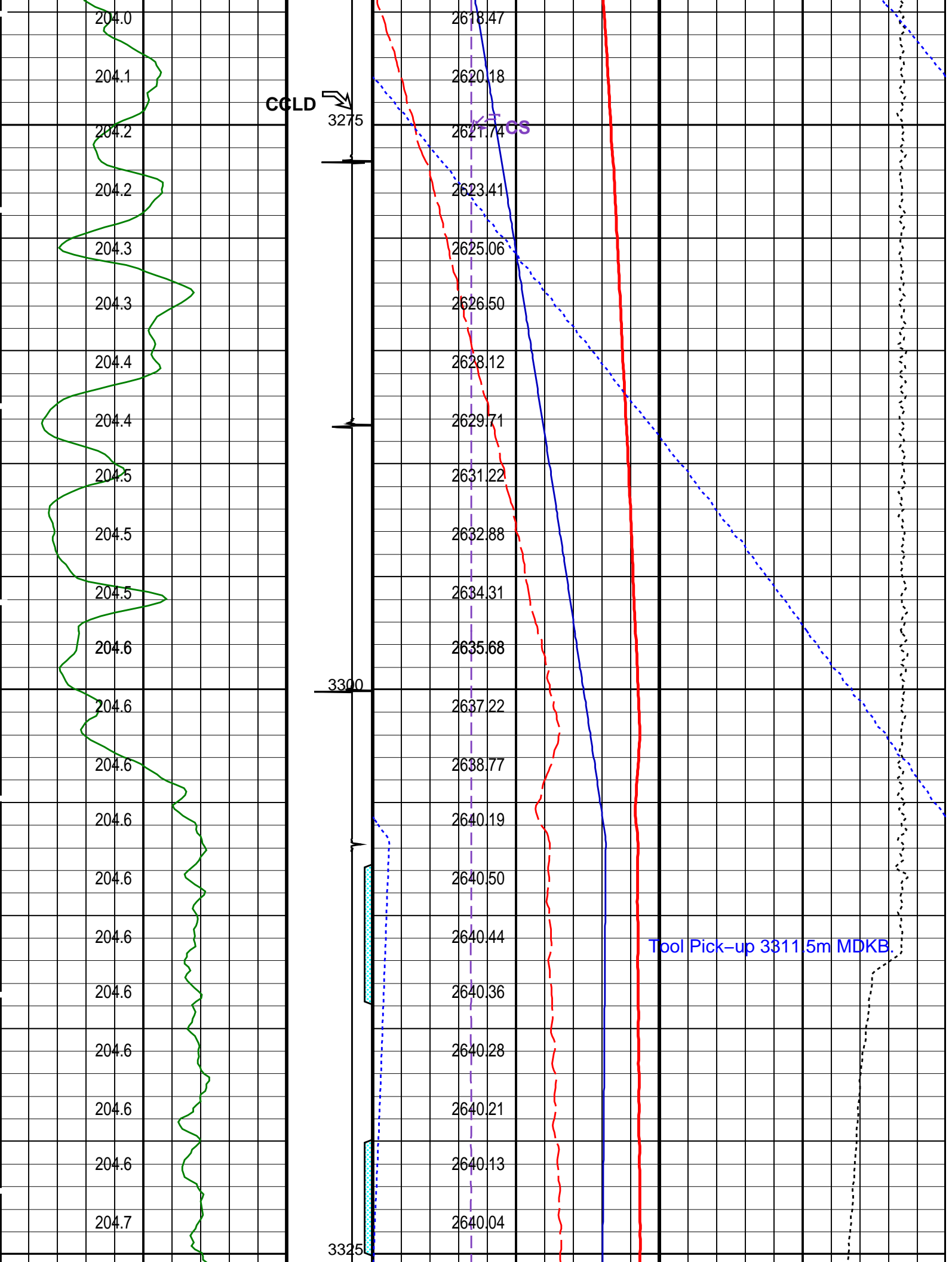
0150

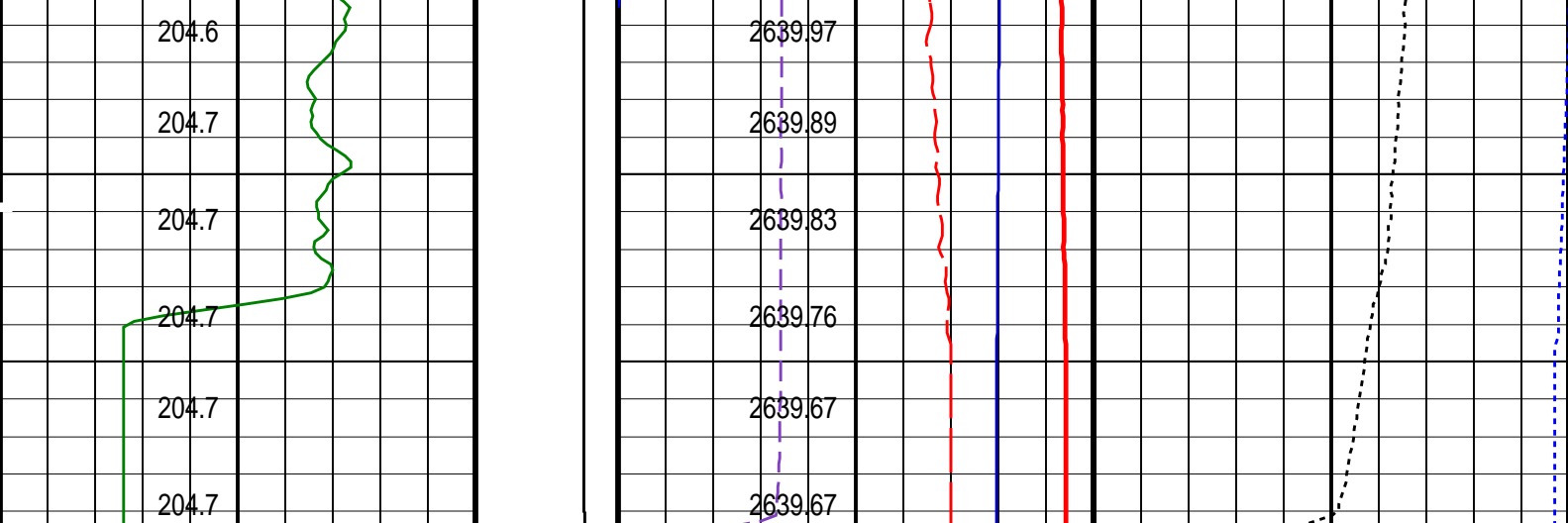
Perfo Zone From PERFO

Well Temperature (WTEP)

190 (DEGF)200







Temperature (WTEP) (DEGF)	Discriminated CCL (CCLD) (V)	Cable Speed (CS) (F/HR)	Tension (TENS) (LBF)
3	-1	0	0

Gamma Ray (GR) (GAPI)	Perfo Zone From PERFO CURVE to D3T	Well Temperature (WTEP) (DEGF)
0	150	190
		200

Well Pressure (WPRE) (PSIA)	Well Temperature (WTEP) (DEGF)
0	2
Well Pressure (WPRE) (PSIA)	Amplified Well Pressure (WPRE) (PSIA)
2600	20
2700	

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 05-Jul-2007 15:24

OP System Version: 14C0-302 MCM

PSPT-A/B 14C0-302

Parameters		
DLIS Name	Description	Value
DO PP	System and Miscellaneous Depth Offset for Playback Playback Processing	4.8 M NORMAL

Input DLIS Files					
DEFAULT	PSP_103LUP	FN:101	PRODUCER	05-Jul-2007 14:52	3334.7 M 3217.0 M

Output DLIS Files					
DEFAULT	PSP_107PUP	FN:105	PRODUCER	05-Jul-2007 15:24	

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

MWPT 2 1/8" Phased
Powerjet Perforation
Record