Schlumberger

Company: **Esso Australia Pty Ltd.**

Well: **A−21A**
Field: **Flounder**
Rig: **Prod 4 / Crane** Country: **Australia**

Rig: Prod 4 / Crane
Field: Flounder
Location: Gippsland
Well: A−21A
Company: Esso Australia Pty Ltd.

2 1/8" Phased Powerjet Perforation
7 5/8" MPBT Plug

LOCATION

Gippsland	Elev.:	K.B.	40.8 m
Basin		G.L.	−93 m
Bass Strait		D.F.	40.8 m

Permanent Datum:	M.S.L	Elev.:	0 m
Log Measured From:	D.F	40.8 m	above Perm. Datum
Drilling Measured From:	D.F		

State:	Max. Well Deviation	Longitude	Latitude
Victoria	60 deg	148 26' 17.304" S	038 18' 44.786" E

Logging Date	12−Sep−2008
Run Number	One
Depth Driller	3335 m
Schlumberger Depth	3335 m
Bottom Log Interval	3335 m
Top Log Interval	3275 m
Casing Fluid Type	Production Fluids
Salinity	
Density	
Fluid Level	1240 m
BIT/CASING/TUBING STRING	
Bit Size	9.875 in
From	
To	
Casing/Tubing Size	7.625 in
Weight	29.7 lbm/ft
Grade	L−80
From	20.43 m
To	3826 m
Maximum Recorded Temperatures	223 degF
Logger On Bottom / Time	12−Sep−2008 / 14:15
Unit Number / Location	889 / Prod4
Recorded By	G Wright. S Gilbert
Witnessed By	D Madden.

PVT DATA	
Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	60 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: 5−SEP−2008 12:54:08

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−BE	Type:	PSDS/OSDS	Type:	2−32ZT
Serial Number:	6373	Serial Number:	−999	Serial Number:	208196
Calibration Date:	01−Dec−2007	Calibration Date:	02−Sep−08	Length:	6939.99 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1174	Conveyance Method:	Wireline
Calibration Cable Type:	2−32ZT	Calibration Gain:	1.00	Rig Type:	Rigless
Wheel Correction 1:	−2	Calibration Offset:	0.00		
Wheel Correction 2:	−4				

Depth Control Parameters

Log Sequence: Subsequent Log In the Well

Reference Log Name: FLA A21a Petrophysical Analysis.
Reference Log Run Number: 1
Reference Log Date: 10−Oct−2004

Depth Control Remarks

1. IDW−BE 6373 used as primary depth control.
2. Z−Chart used as back−up.
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 corrleated to Solar log dated 25 Oct 2005, provided by the client.

Maximum well deviation = 60 degrees at 757m MDKB.

Run one was a 2.5mtr 2 1/8" phased powerjet gun at 6 shots per foot.

Interval perforated was 3324m to 3326.5m MDKB.

SBHP = 3301 psia,SBHT = 220.6 degf.

No noticable change in temperature or pressure after firing the gun.

Run # 2 : Run a 2.13" Dummy Plug to HHP - TAGGED @ 3327m MDKB

Run # 2 : Run a 2.13" Dummy Plug to HUD TAGGED @ 3337m MDKB

Run # 3 Set a 7 5/8 Posiset Plug with Top of Seal @ 3330m MDKB

Run's # 4 / 5 : Dump water . Dump approxx .8 m of cement on top of plug .

Plug # 1 @ 3330m MDKB

Top of seal @ 3330m MDKB

CCL to Top of Seal = 7.1m

CCL Stop Depth = 3322.9 m MDKB

Crew : Chris Shiells & Kev Kerr.

r

RUN 1			RUN 2		
SERVICE ORDER #:	AUSL08356991				
PROGRAM VERSION:	15C0−309				
FLUID LEVEL:	1240 m				
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

MWPM−AA 3008

DOWNHOLE EQUIPMENT

SWBS 788		13.41
SWBS 787		12.73
SWBS 786		12.04
SWBS 785		11.35
SWHS 759		10.67
MWGT−AA 24 MWPG−AA 24 MWGH−AA 19	MWPG GR	10.34 2.41
MWPT−CA 74 MWPH−AA 74 MWPS−AA 74	CCL SMWP Pres SMWP Temp Tension	9.36 TOOL ZERO
AH−FLEX JOINT 42		6.54
AH−SAH−G 1035		6.24
MPD−MB 336		5.93

RUN 2

SURFACE EQUIPMENT

MPBM

DOWNHOLE EQUIPMENT

SWBS−B 786		13.56
SWBS−B 787		12.88
SWBS−B 788		12.19
SWBS−B 789		11.50
SWHS−A 759	CCL Tachomete Cable Cur Head Volt Tension	10.82
CCL−L CCL−L	TOOL ZERO	10.47
MPSU−CA 1011 MPSU−CA 1011		10.02

MPD−MB 336

AH−ESIC 4007395 5.44

MWP_GUN 5.13
GUN−2.5mtr Powerjet Gun 1

TOOL BOTTOM

MAXIMUM STRING DIAMETER 1.69 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

MPEX−CA 7 5/8: Posiset Plug 3.61
MPEX−CA

TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

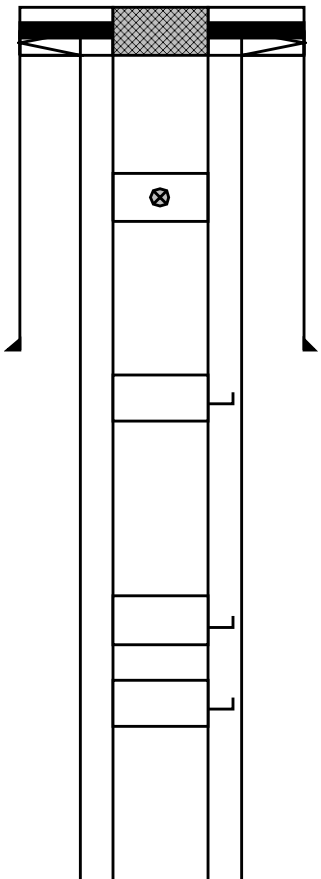
Client: ExxonMobil
Well: FLA A−21a
Field: Flounder
State: Victoria
Country: Australia

Drawing Date: 14/Dec/2005
API #:

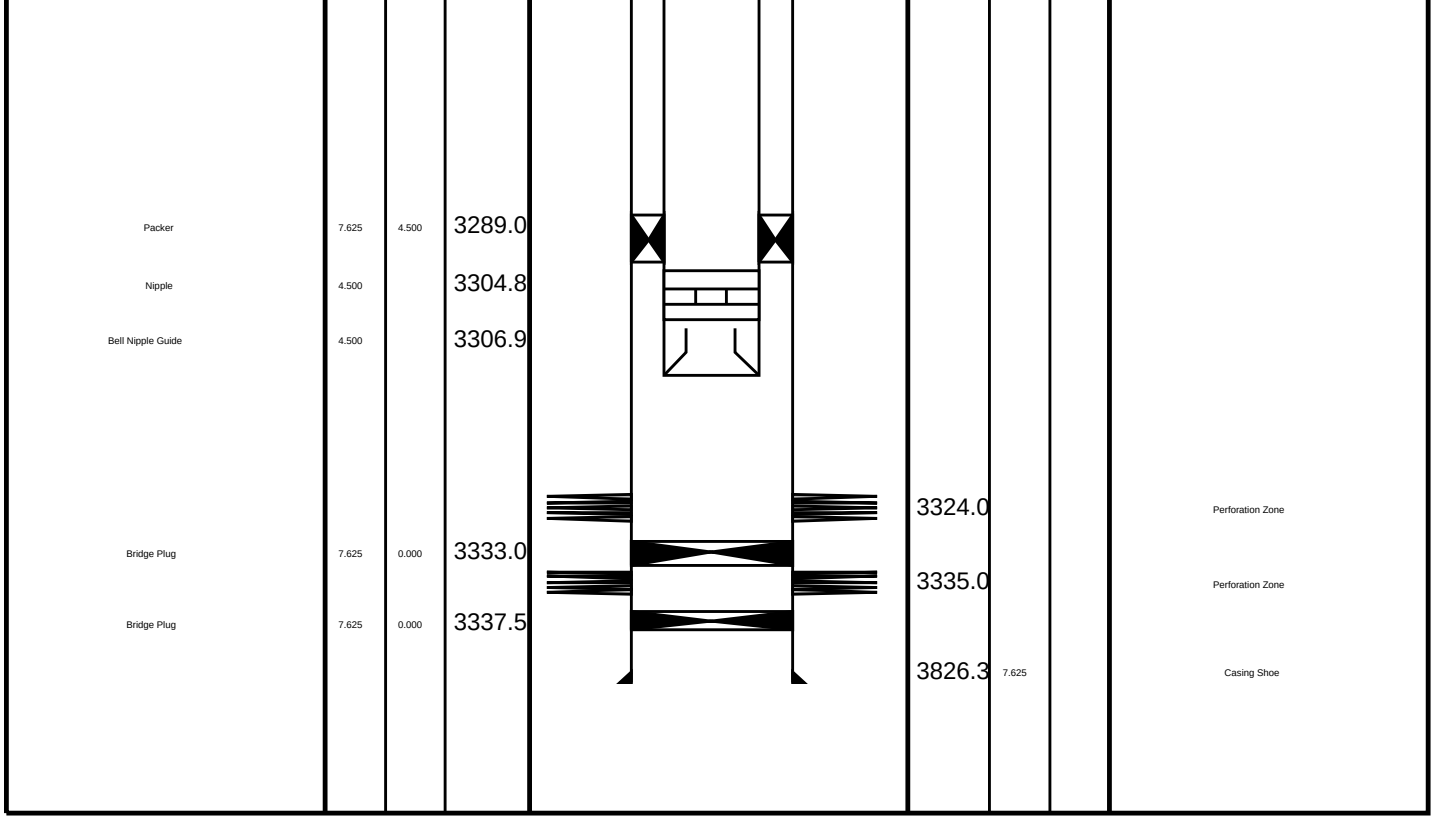
Rig Name: Flounder
Reference Datum: Kelly Bushing
Elevation: 12.4 m

Production String	(in) OD	(in) ID	(m) MD
Tubing Hanger	13.375	4.500	19.3
Tubing	4.500		19.3
Shutin Valve	4.500		450.1
Gas Lift Mandrel	4.500		950.5
Gas Lift Mandrel	4.500		1660.7
Gas Lift Mandrel	4.500		1814.2

Well Schematic



(m) MD	(in) OD	(in) ID	Casing String
20.4	13.625		Casing String
20.4	13.375	7.625	Liner Hanger
750.0	13.375		Casing Shoe



Schlumberger

Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)		File
Log Pass (up)	12−Sep−2008 14:23	000:05	3330.2 −	3302.5	PERFO_010LUP
Log Pass (up)	12−Sep−2008 14:31	000:40	3324.3 −	3293.7	PERFO_011LUP
Station Log	12−Sep−2008 14:34	000:33	3320.4 −	5.0	PERFO_012LTP
Log Pass (up)	13−Sep−2008 11:07	000:01	3312.9 −	3303.6	CCL_031LUP
Simulated Log	13−Sep−2008 11:13	000:36			CCL_032LUP
Log Pass (up)	13−Sep−2008 11:50	000:04	3322.8 −	3287.9	CCL_033LUP
Log Pass (up)	13−Sep−2008 14:12	000:09	3321.9 −	3270.0	PERFO_040LUP
Log Pass (up)	13−Sep−2008 16:03	000:06	3323.1 −	3273.9	PERFO_043LUP

Schlumberger

Cement Dump Pass

MAXIS Field Log

Output DLIS Files

DEFAULT	PERFO_043LUP	FN:42	PRODUCER	13−Sep−2008 16:03	3323.1 M	3273.9 M

OP System Version: 15C0−309

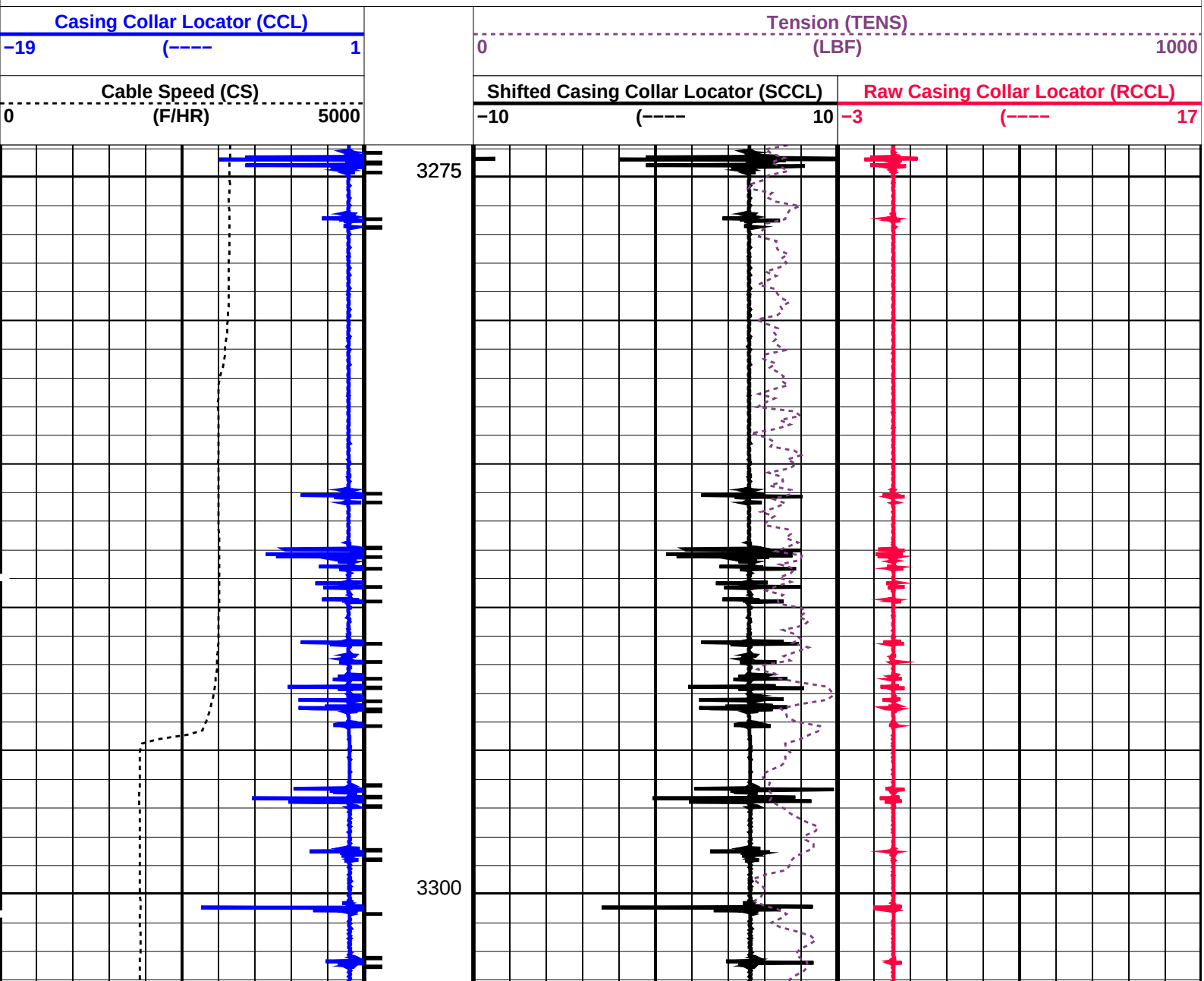
MCM

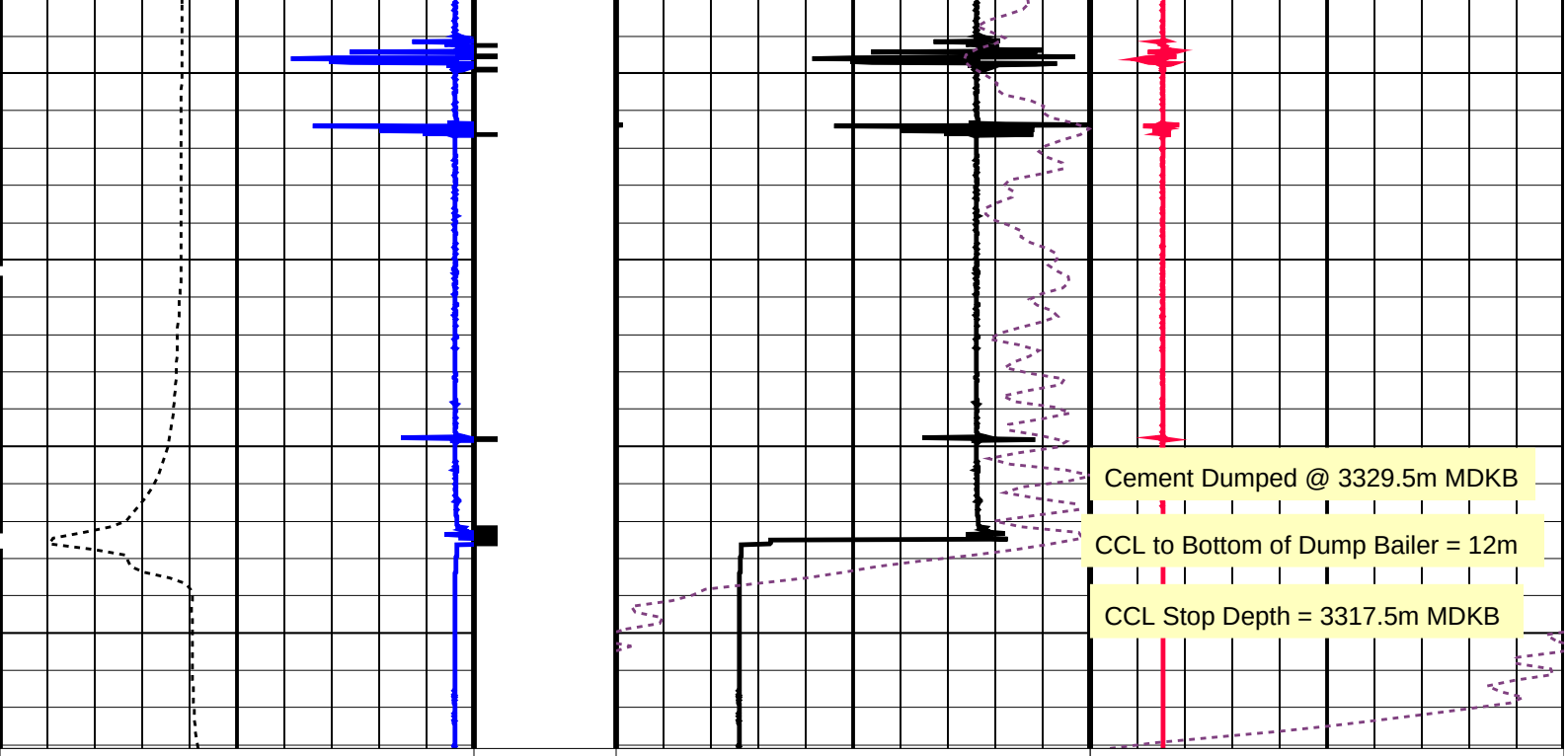
SHM_GUN	SRPC−3546−Q1_2008_OP15	CCL−L	SRPC−3546−Q1_2008_OP15

PIP SUMMARY

Casing Collars

Time Mark Every 60 S





Cable Speed (CS)	Shifted Casing Collar Locator (SCCL)	Raw Casing Collar Locator (RCCL)
0 (F/HR) 5000	−10 (---- 10	−3 (---- 17
Casing Collar Locator (CCL)	**Tension (TENS)**	
−19 (---- 1	0 (LBF) 1000	

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: 13−Sep−2008 16:03

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_043LUP	FN:42	PRODUCER	13−Sep−2008 16:03

Schlumberger

Water Dump Pass

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_040LUP FN:39 PRODUCER 13−Sep−2008 14:12 3321.9 M 3270.0 M

OP System Version: 15C0−309

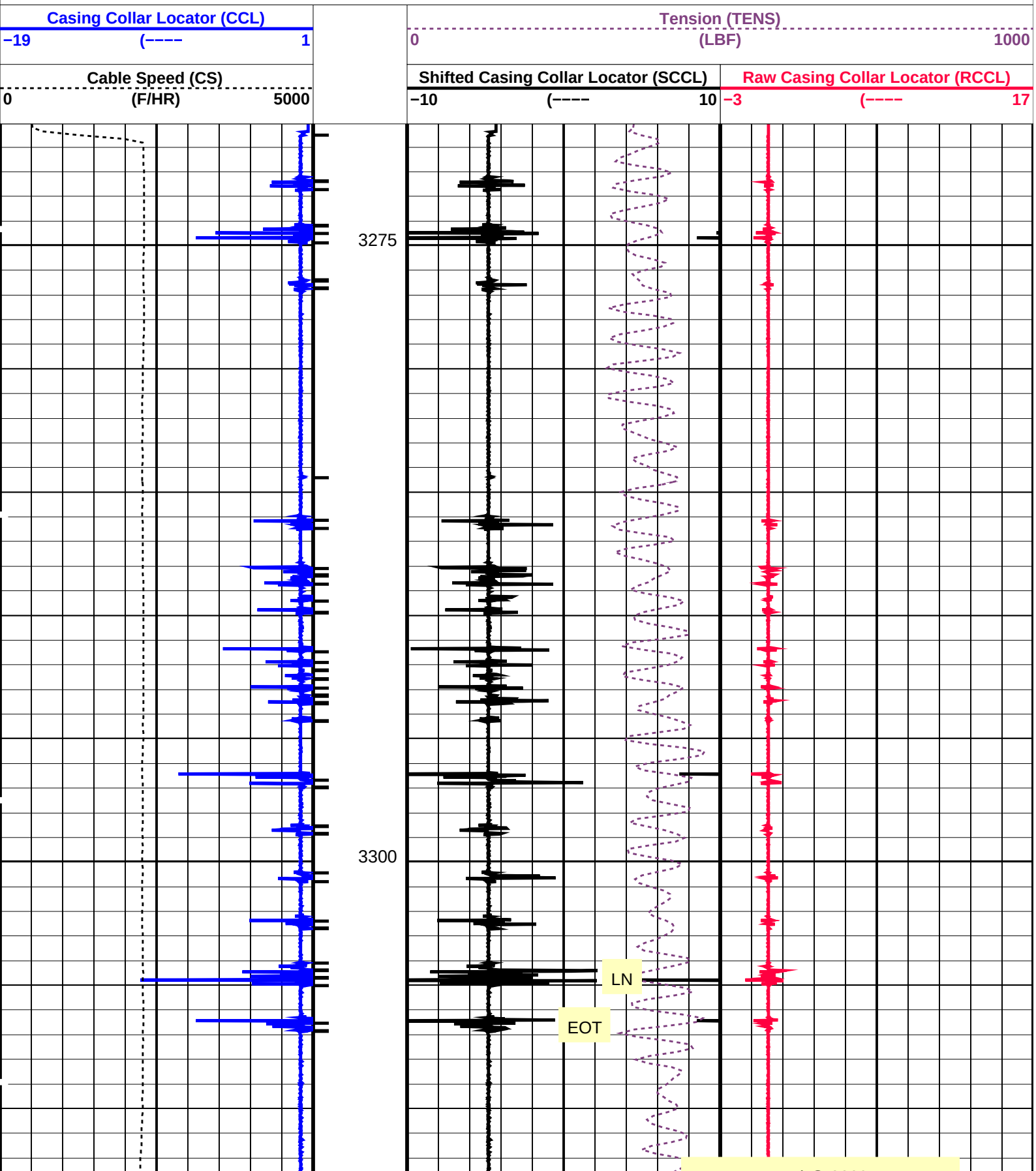
MCM

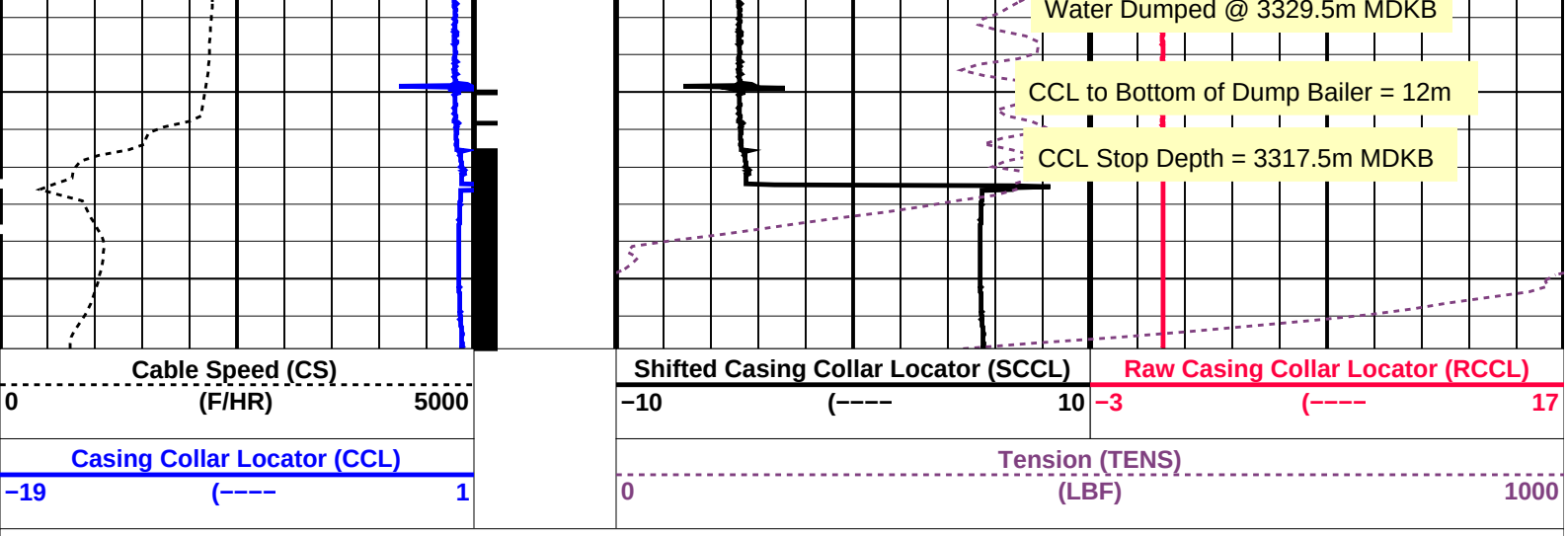
SHM_GUN SRPC−3546−Q1_2008_OP15 CCL−L SRPC−3546−Q1_2008_OP15

PIP SUMMARY

Casing Collars

Time Mark Every 60 S





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: 13−Sep−2008 14:12

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_040LUP	FN:39	PRODUCER	13−Sep−2008 14:12	

Schlumberger

Log Away From Plug Setting
@ 3330m MDKB

MAXIS Field Log

Output DLIS Files

DEFAULT	CCL_033LUP	FN:32	PRODUCER	13−Sep−2008 11:50	3322.8 M	3287.9 M

OP System Version: 15C0−309

MCM

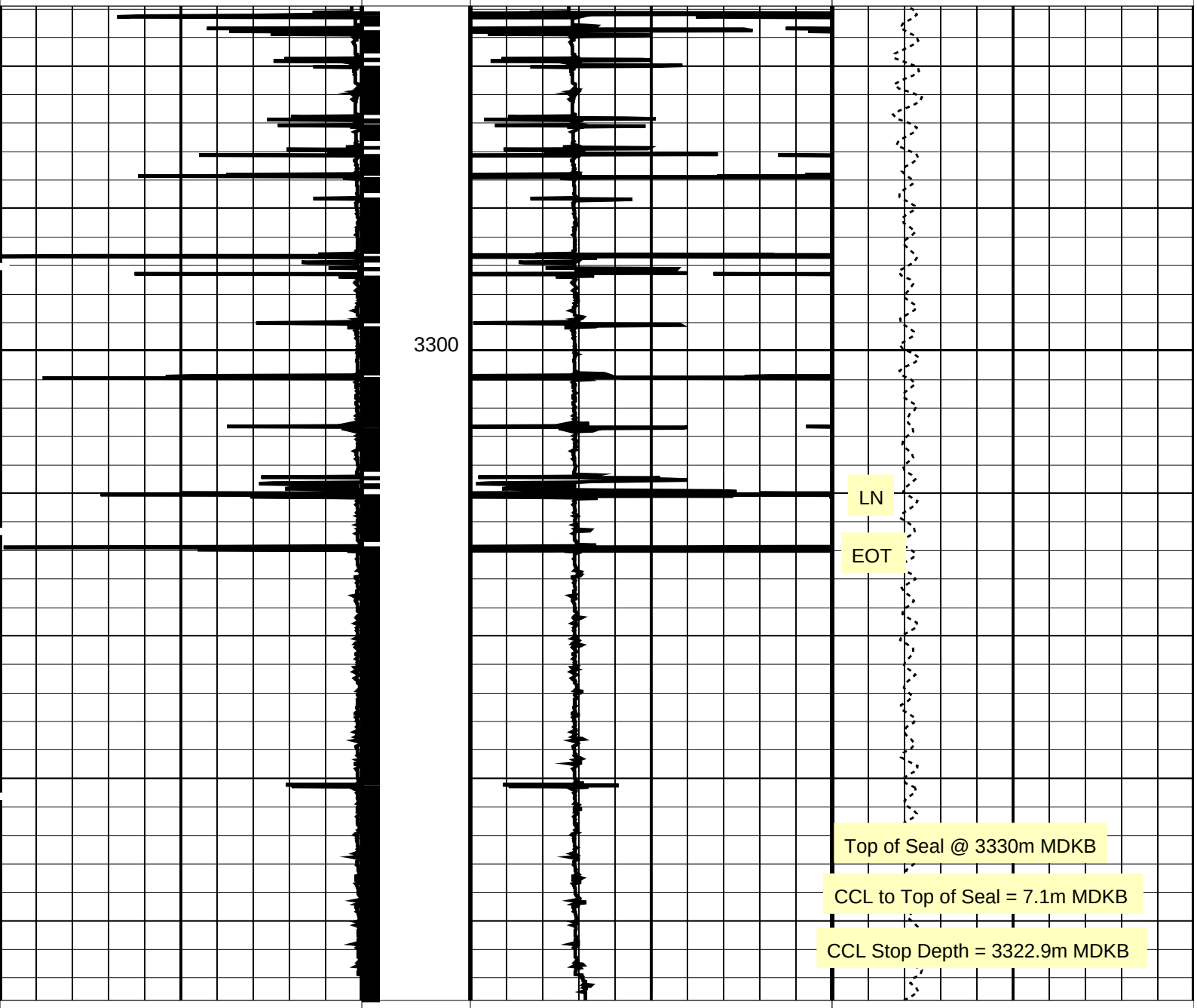
MPEX−CA	SRPC−3546−Q1_2008_OP15	MPSU−CA	SRPC−3546−Q1_2008_OP15
CCL−L	SRPC−3546−Q1_2008_OP15		

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



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: 13−Sep−2008 11:50

OP System Version: 15C0−309

MCM

MPEX−CA	SRPC−3546−Q1_2008_OP15	MPSU−CA	SRPC−3546−Q1_2008_OP15
CCL−L	SRPC−3546−Q1_2008_OP15		

Output DLIS Files

DEFAULT	CCL_033LUP	FN:32	PRODUCER	13−Sep−2008 11:50

Schlumberger

7 5/8" Posiset Plug
(top of seal @ 3330m MDKB)

MAXIS Field Log

Output DLIS Files

DEFAULT	CCL_032LUP	FN:31	PRODUCER	13−Sep−2008 11:13

OP System Version: 15C0−309

MCM

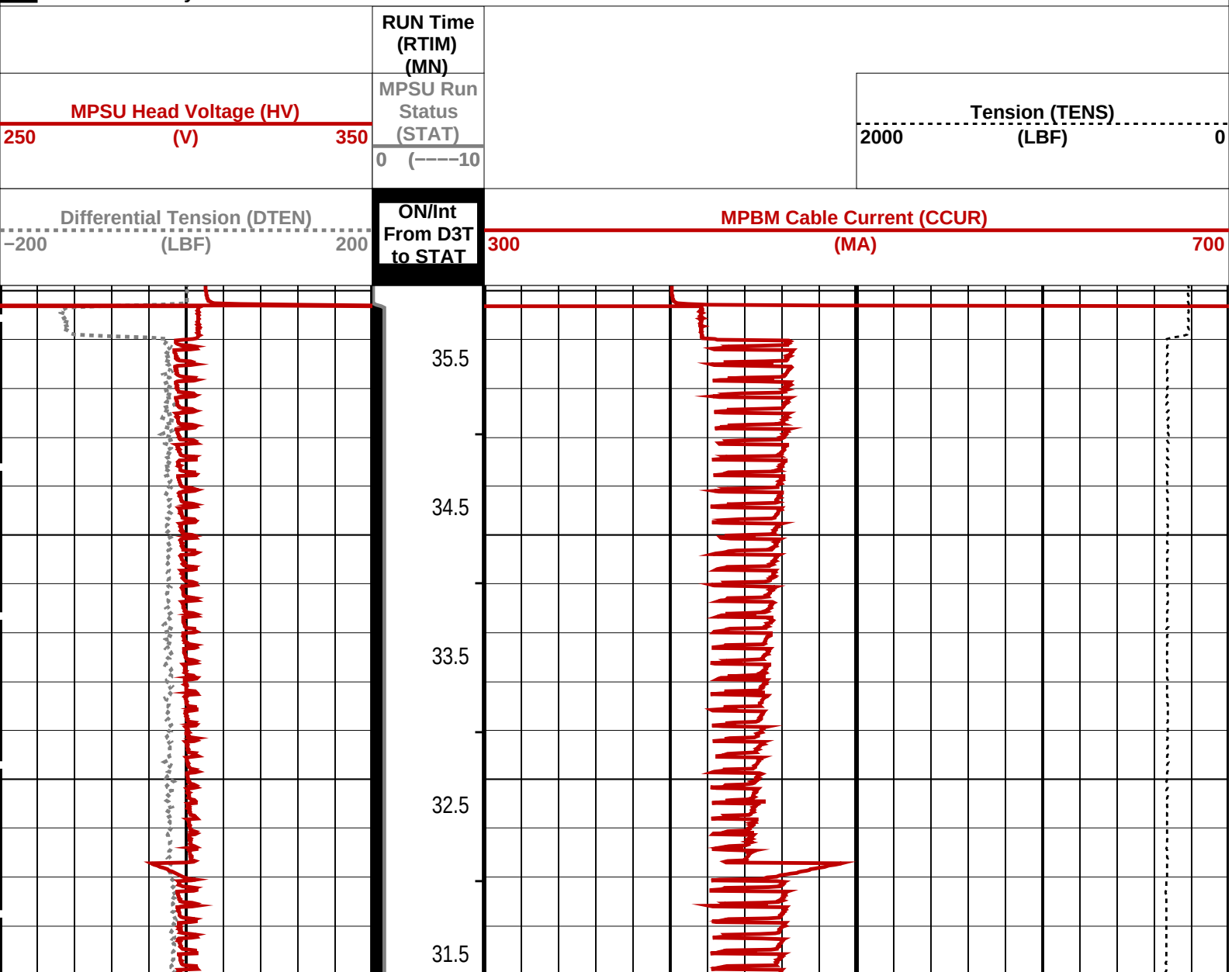
MPEX−CA	SRPC−3546−Q1_2008_OP15	MPSU−CA	SRPC−3546−Q1_2008_OP15
CCL−L	SRPC−3546−Q1_2008_OP15		

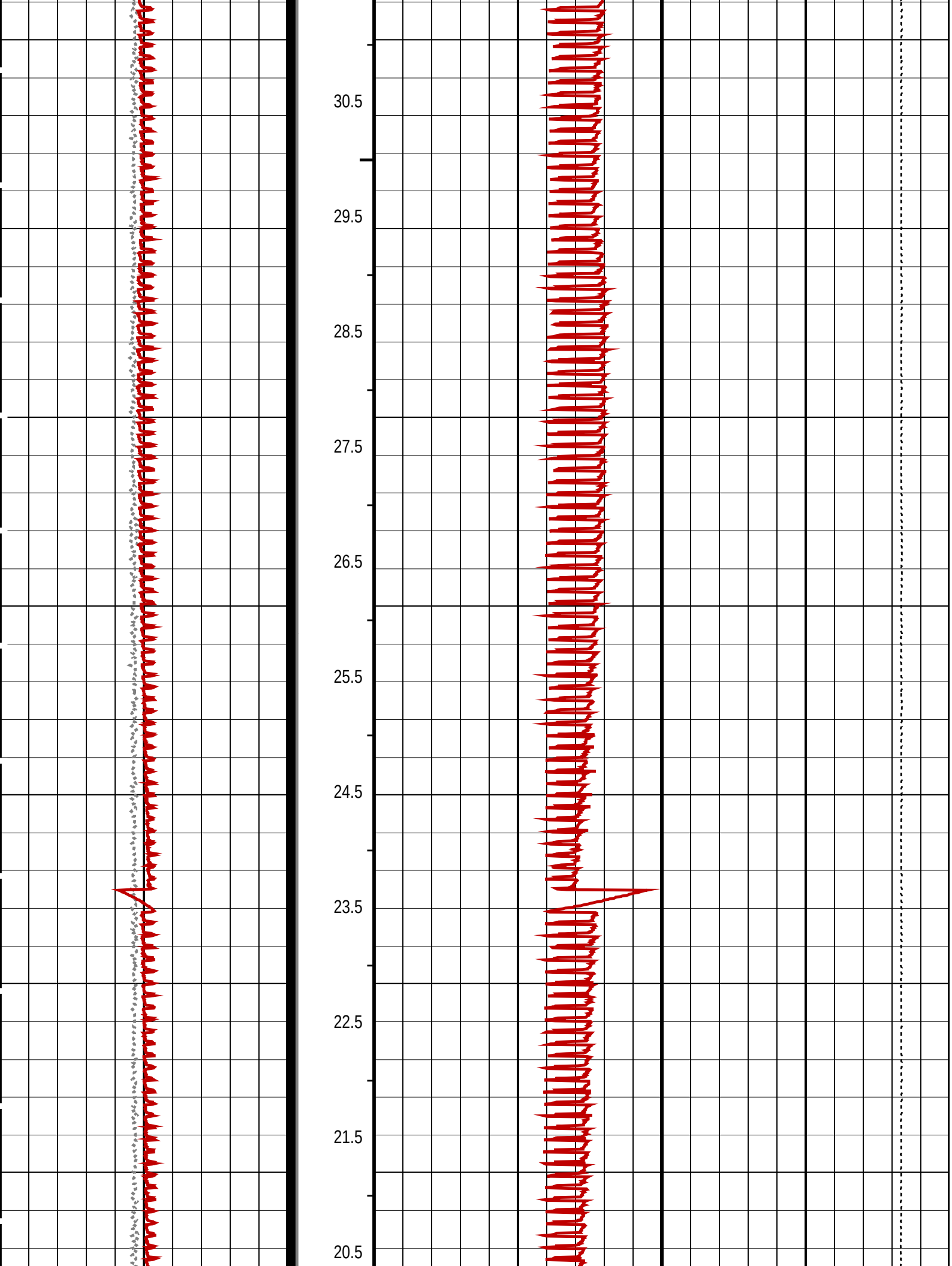
PIP SUMMARY

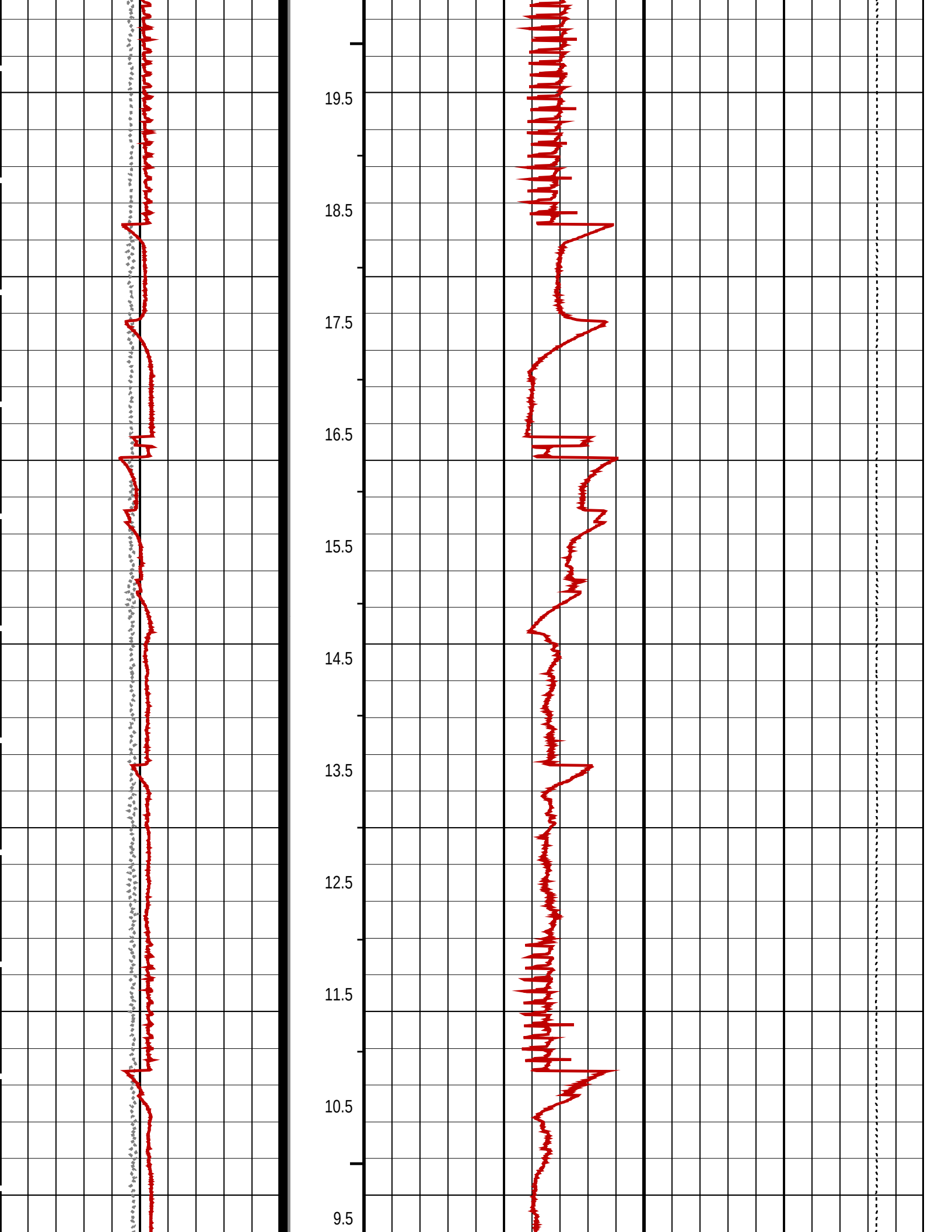
MPSU Run Time Every 1 MN

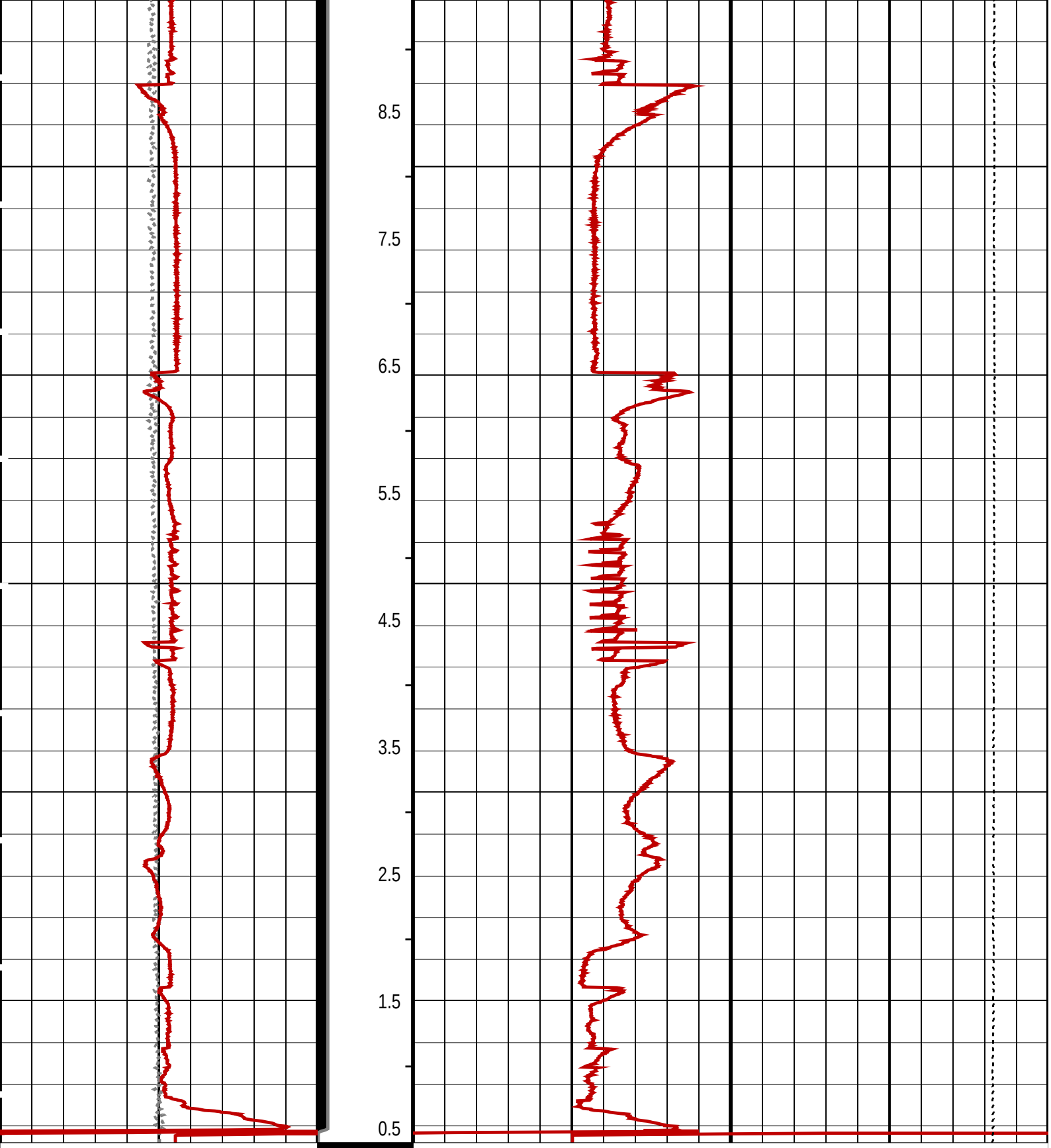
MPSU Run Time Every 10 MN

Time Mark Every 60 S




30.5
29.5
28.5
27.5
26.5
25.5
24.5
23.5
22.5
21.5
20.5


19.5
18.5
17.5
16.5
15.5
14.5
13.5
12.5
11.5
10.5
9.5



Differential Tension (DTEN)
−200 (LBF) 200

ON/Int From D3T to STAT

MPBM Cable Current (CCUR)
300 (MA) 700

MPSU Head Voltage (HV)
250 (V) 350

MPSU Run Status (STAT)
0 (−−−−10

Tension (TENS)
2000 (LBF) 0

RUN Time (RTIM) (MN)

PIP SUMMARY

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: 13−Sep−2008 11:13

OP System Version: 15C0−309

MCM

MPEX−CA	SRPC−3546−Q1_2008_OP15	MPSU−CA	SRPC−3546−Q1_2008_OP15
CCL−L	SRPC−3546−Q1_2008_OP15		

Output DLIS Files

DEFAULT	CCL_032LUP	FN:31	PRODUCER	13−Sep−2008 11:13

Schlumberger

Plug Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT	CCL_031LUP	FN:30	PRODUCER	13−Sep−2008 11:07	3312.9 M	3303.6 M

OP System Version: 15C0−309

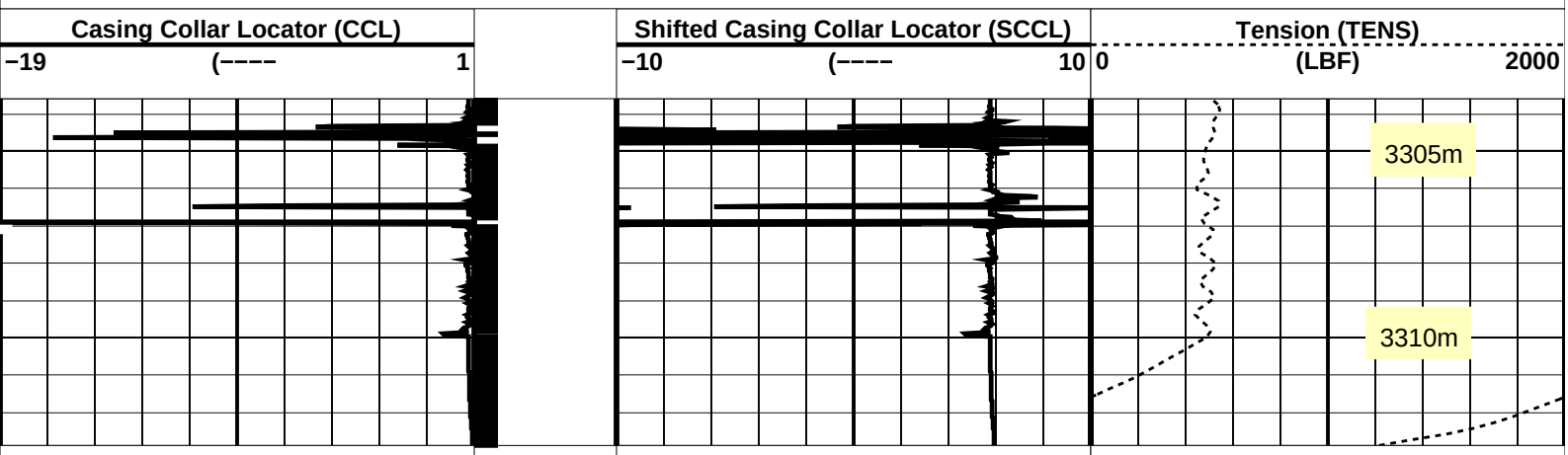
MCM

MPEX−CA	SRPC−3546−Q1_2008_OP15	MPSU−CA	SRPC−3546−Q1_2008_OP15
CCL−L	SRPC−3546−Q1_2008_OP15		

PIP SUMMARY

Casing Collars

Time Mark Every 60 S



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

PIP SUMMARY

Casing Collars

Time Mark Every 60 S

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: 13−Sep−2008 11:07

OP System Version: 15C0−309

MCM

MPEX−CA	SRPC−3546−Q1_2008_OP15	MPSU−CA	SRPC−3546−Q1_2008_OP15
CCL−L	SRPC−3546−Q1_2008_OP15		

Output DLIS Files

DEFAULT	CCL_031LUP	FN:30	PRODUCER	13−Sep−2008 11:07	

Schlumberger

2.13" Dummy Plug Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A−21A

Input DLIS Files

DEFAULT	PSP_019LUP	FN:18	PRODUCER	13−Sep−2008 08:49	3339.1 M	3219.6 M

Output DLIS Files

DEFAULT	PSP_020PUP	FN:19	PRODUCER	13−Sep−2008 09:09	3343.0 M	3221.4 M

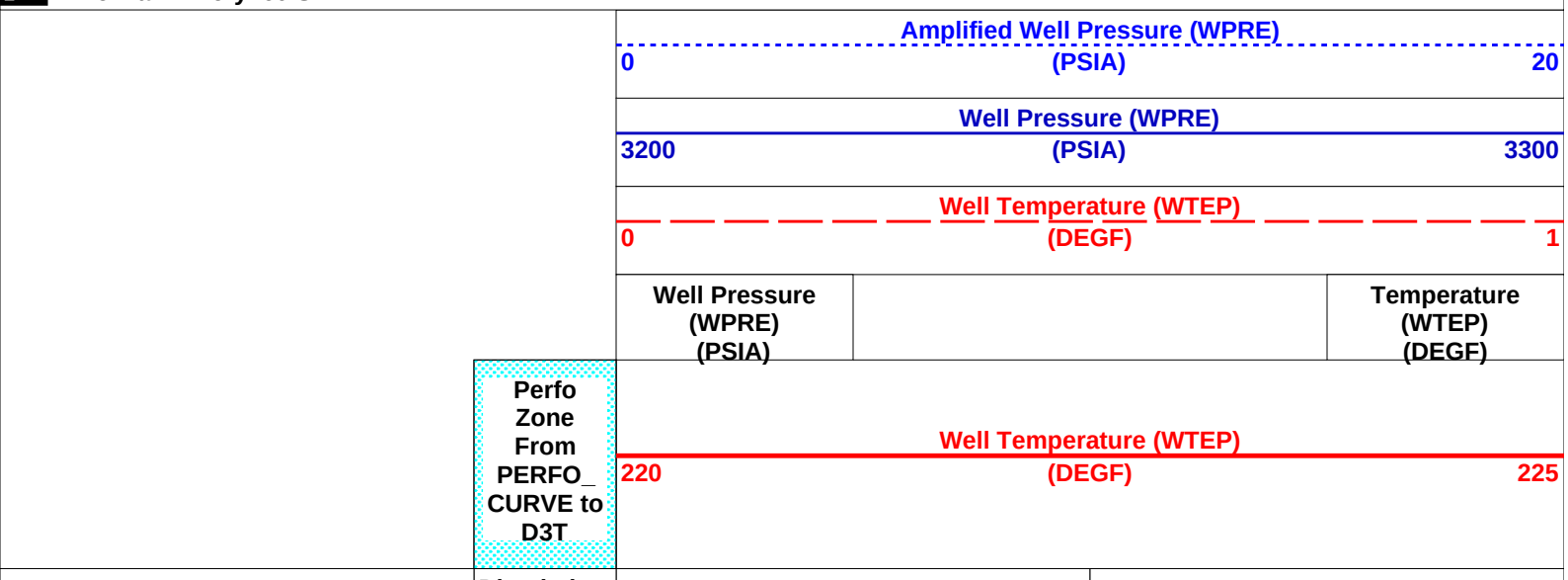
OP System Version: 15C0−309

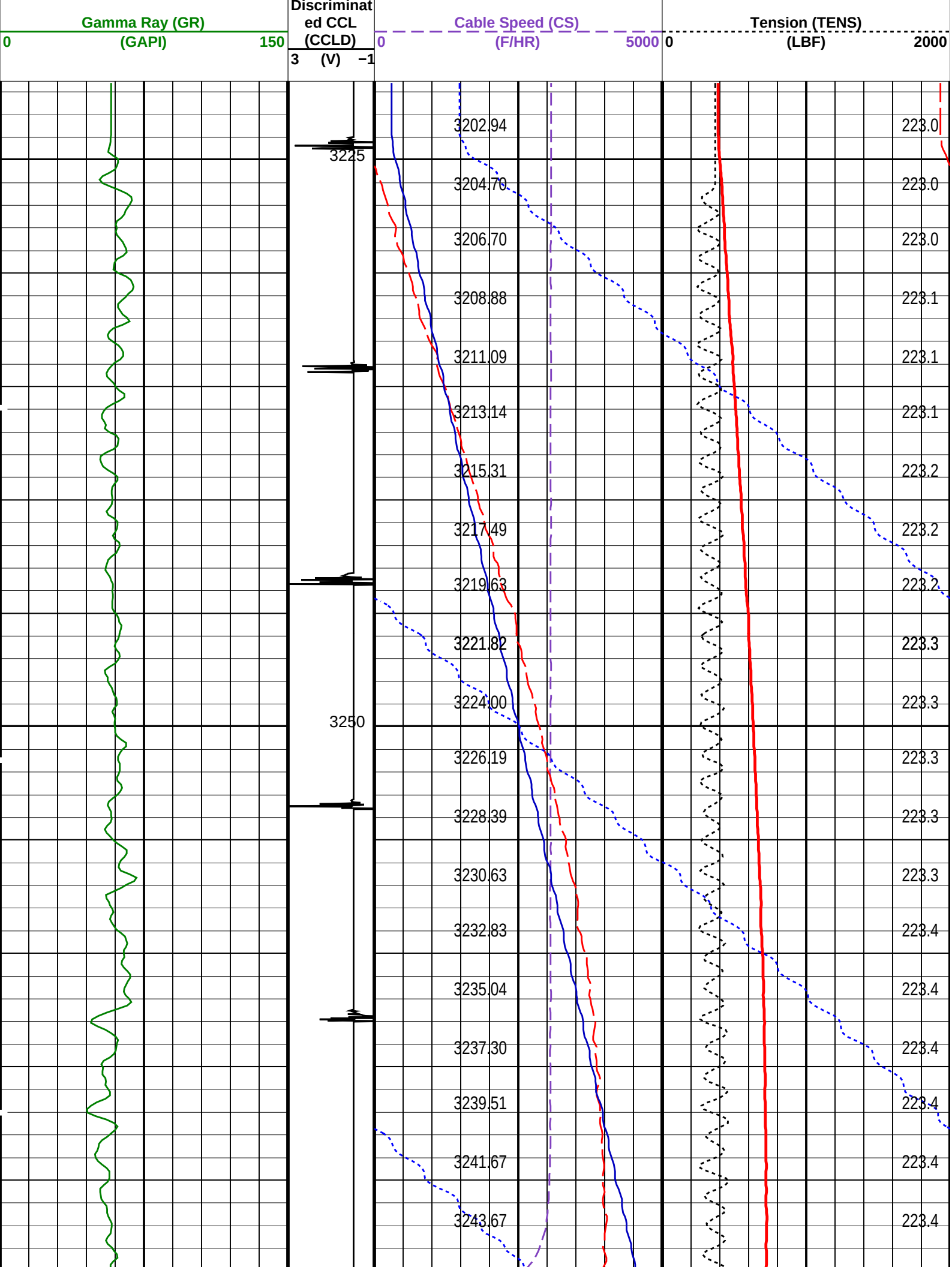
MCM

PSPT−B	SRPC−3546−Q1_2008_OP15

PIP SUMMARY

Time Mark Every 60 S




Gamma Ray (GR)
0
(GAPI)
150
Discriminated CCL (CCLD)
3
(V)
−1
Cable Speed (CS)
0
(F/HR)
5000
Tension (TENS)
0
(LBF)
2000
3225
3250
3202.94
3204.70
3206.70
3208.88
3211.09
3213.14
3215.31
3217.49
3219.63
3221.82
3224.00
3226.19
3228.39
3230.63
3232.83
3235.04
3237.30
3239.51
3241.67
3243.67
223.0
223.0
223.0
223.1
223.1
223.1
223.2
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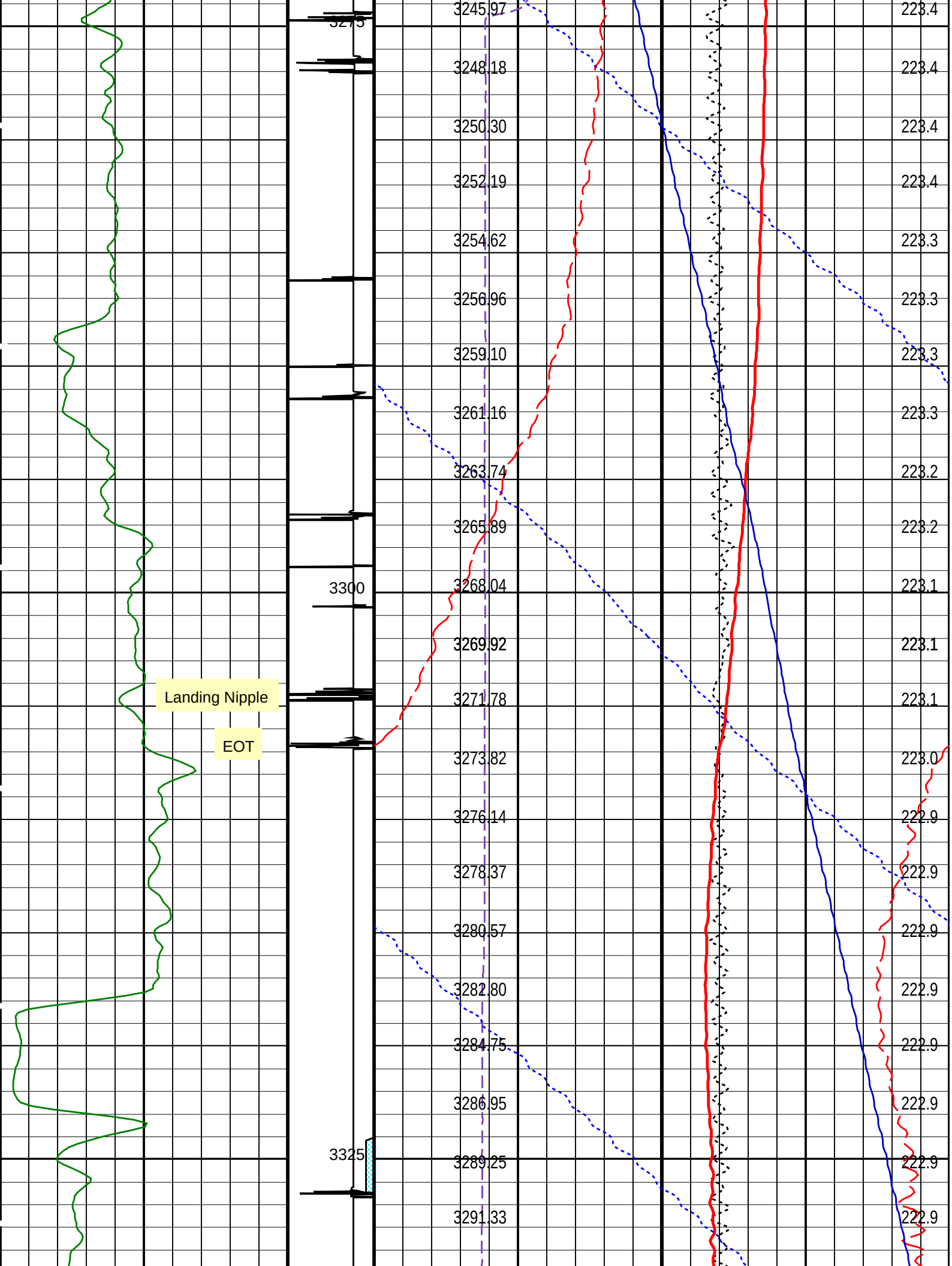
223.4
223.4


3275
3300
3325
Landing Nipple
EOT
3245.97
3248.18
3250.30
3252.19
3254.62
3256.96
3259.10
3261.16
3263.74
3265.89
3268.04
3269.92
3271.78
3273.82
3276.14
3278.37
3280.57
3282.80
3284.75
3286.95
3289.25
3291.33
223.4
223.4
223.4
223.4
223.3
223.3
223.3
223.3
223.2
223.2
223.1
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222.9
222.9
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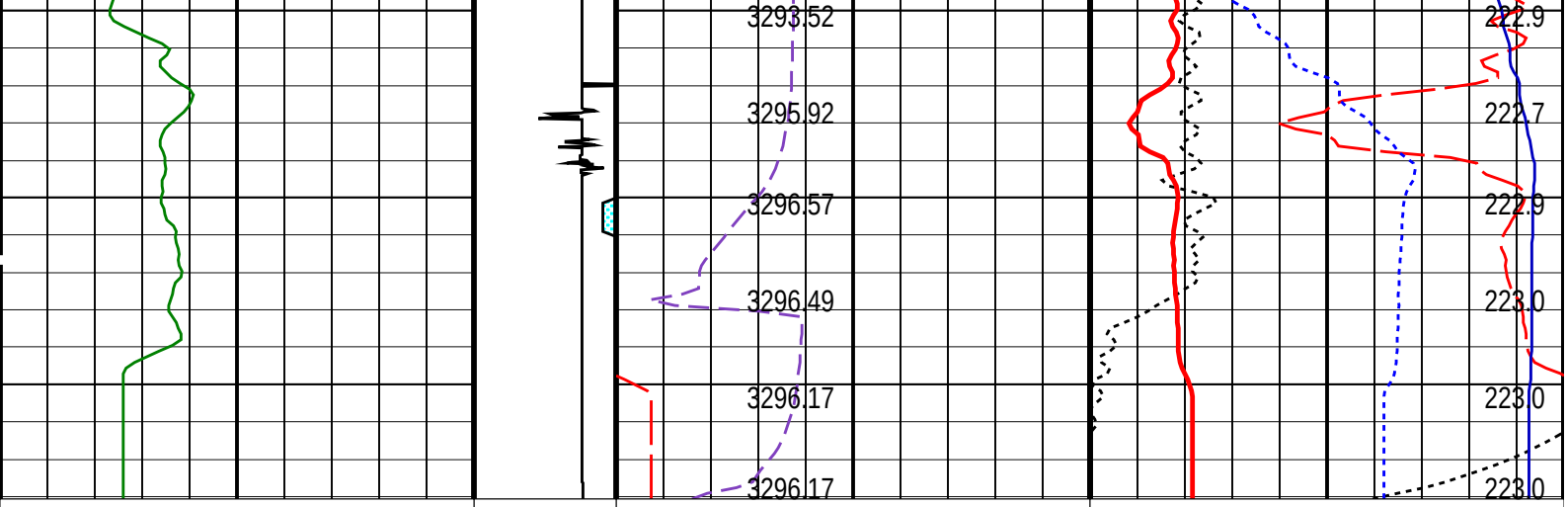
222.9
222.9



Gamma Ray (GR)	Discriminated CCL (CCLD)	Cable Speed (CS)	Tension (TENS)
0 (GAPI) 150	3 (V) −1	0 (F/HR) 5000	0 (LBF) 2000

Perfo Zone From PERFO_CURVE to D3T

Well Temperature (WTEP)
220 (DEGF) 225

Well Pressure (WPRE) (PSIA)		Temperature (WTEP) (DEGF)

Well Temperature (WTEP)
0 (DEGF) 1

Well Pressure (WPRE)
3200 (PSIA) 3300

Amplified Well Pressure (WPRE)
0 (PSIA) 20

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 13−Sep−2008 09:09

OP System Version: 15C0−309

MCM

PSPT−B SRPC−3546−Q1_2008_OP15

Parameters

DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	4.0 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT	PSP_019LUP	FN:18	PRODUCER	13−Sep−2008 08:49	3339.1 M	3219.6 M

Output DLIS Files

DEFAULT	PSP_020PUP	FN:19	PRODUCER	13−Sep−2008 09:09

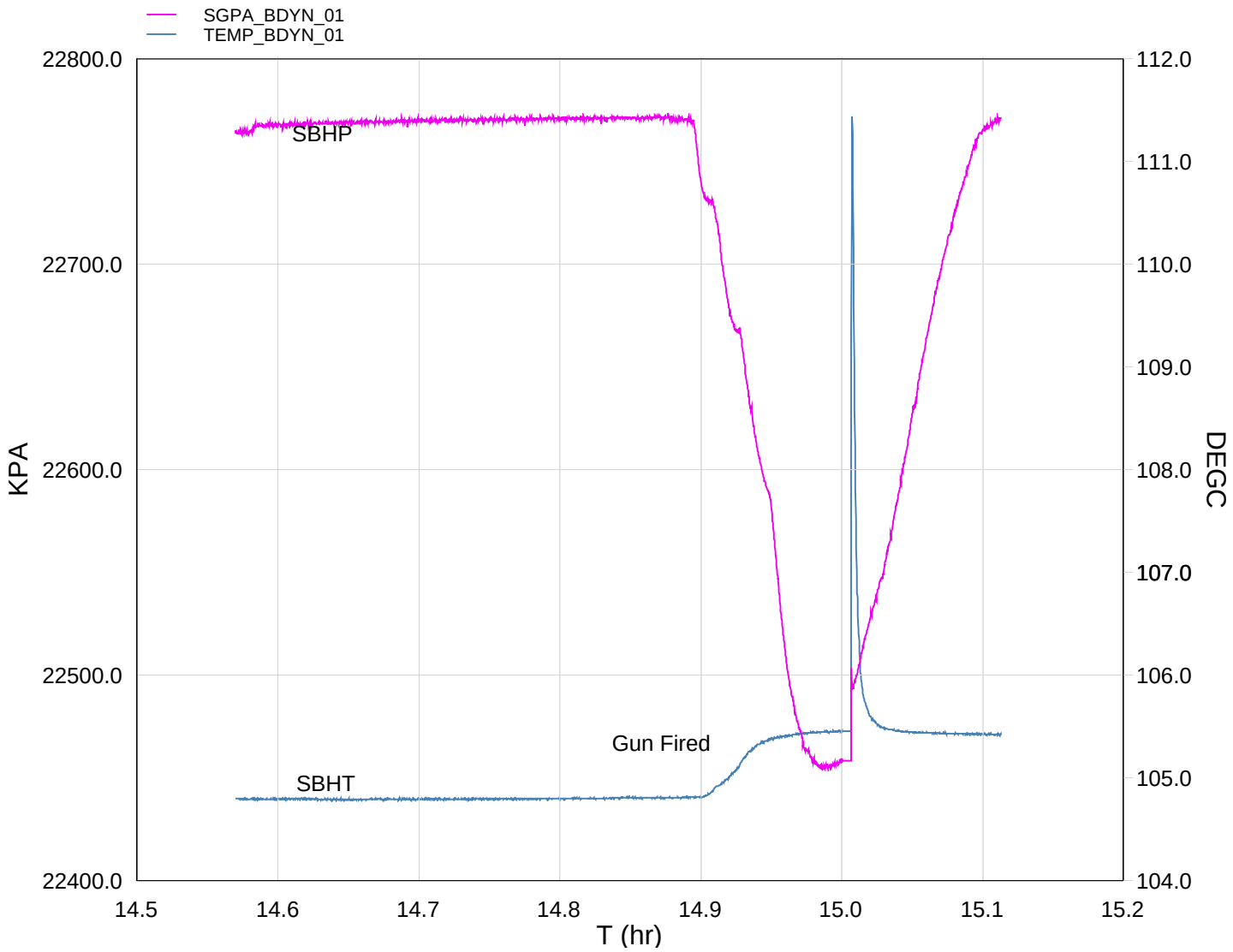
Schlumberger

GUN # 1

Schlumberger

3324m to 3326.5m MDKB

MAXIS Field Log



TIME	DEGF	PSIA
4320.0	221.77	3301.686
4260.0	221.78	3296.964
4200.0	221.79	3290.173
4140.0	221.80	3281.444
4080.0	221.86	3272.275
4020.0	222.36	3265.897
3960.0	221.82	3257.228
3900.0	221.81	3256.963
3840.0	221.76	3261.211
3780.0	221.69	3275.736
3720.0	221.42	3283.939
3660.0	220.92	3291.772

3600.0	220.66	3298.559
3540.0	220.65	3302.451
3480.0	220.65	3302.697
3420.0	220.65	3302.726
3360.0	220.65	3302.689
3300.0	220.63	3302.685
3240.0	220.63	3302.586
3180.0	220.63	3302.627
3120.0	220.63	3302.693
3060.0	220.63	3302.512
3000.0	220.63	3302.508
2940.0	220.62	3302.619
2880.0	220.63	3302.504
2820.0	220.63	3302.401
2760.0	220.63	3302.500
2700.0	220.62	3302.303
2640.0	220.62	3302.291
2580.0	220.63	3302.138
2520.0	220.62	3302.216
2460.0	220.64	3302.130
2400.0	220.64	3301.695

Schlumberger

GUN # 1
Shooting Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. **Well: A−21A**

Output DLIS Files

DEFAULT PERFO_011LUP FN:10 PRODUCER 12−Sep−2008 14:31 3324.3 M 3293.7 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)

Tension (TENS)
0 (LBF) 2000

Temperature (TEMP_MWPT) (DEGF)

CCL
From CCL to T1

Gamma Ray (GR)
0 (GAPI) 150

Casing Collar Locator (CCL)
−19 (−−−− 1

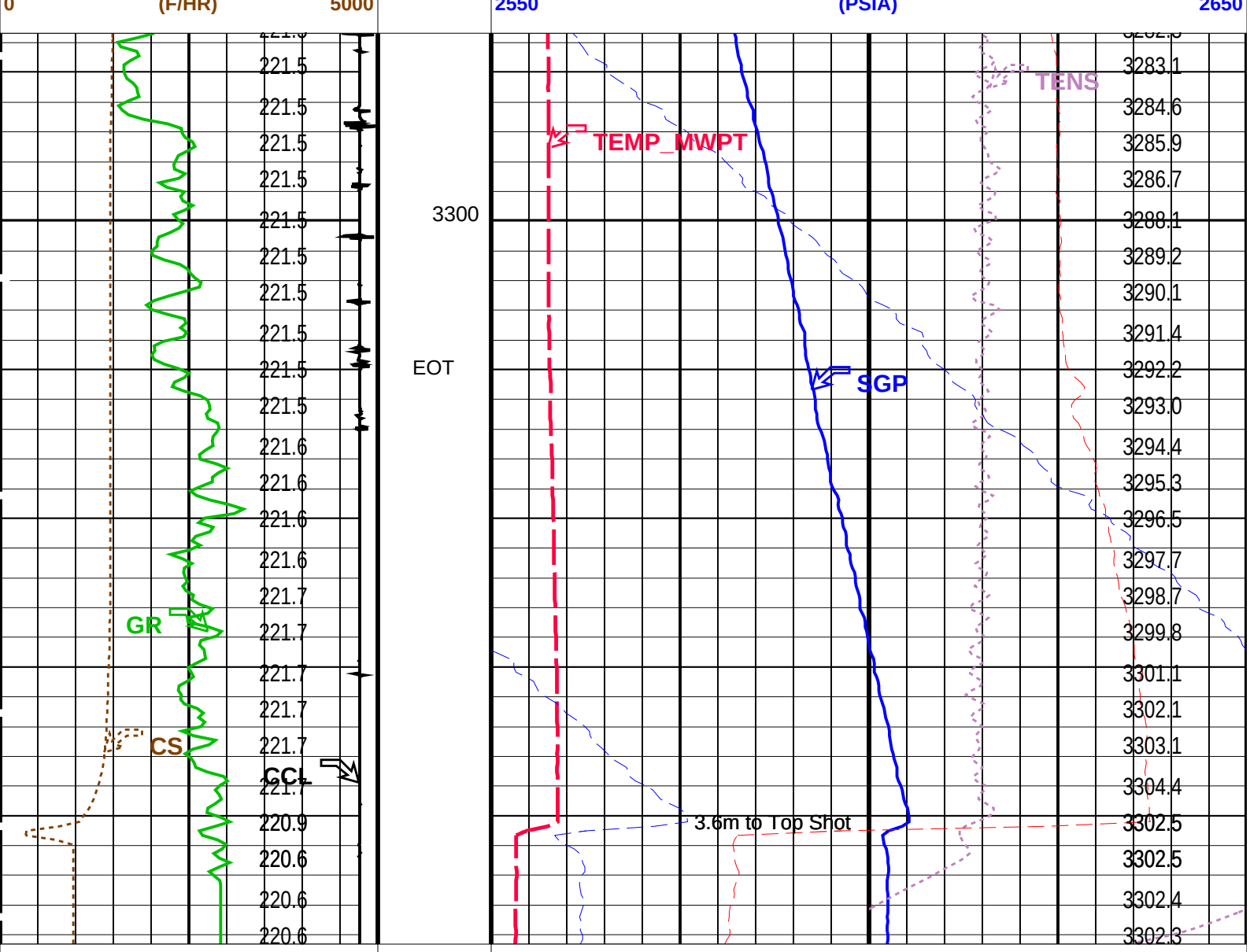
Cable Speed (CS)

Temperature (TEMP_MWPT)
0 (DEGF) 2

Strain Gauge Pressure (SGP)
0 (PSIA) 20

Temperature (TEMP_MWPT)
200 (DEGF) 220

Strain Gauge Pressure (SGP)



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: 12−Sep−2008 14:31

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_011LUP	FN:10	PRODUCER	12−Sep−2008 14:31

Schlumberger

GUN # 1
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. **Well: A−21A**

Output DLIS Files

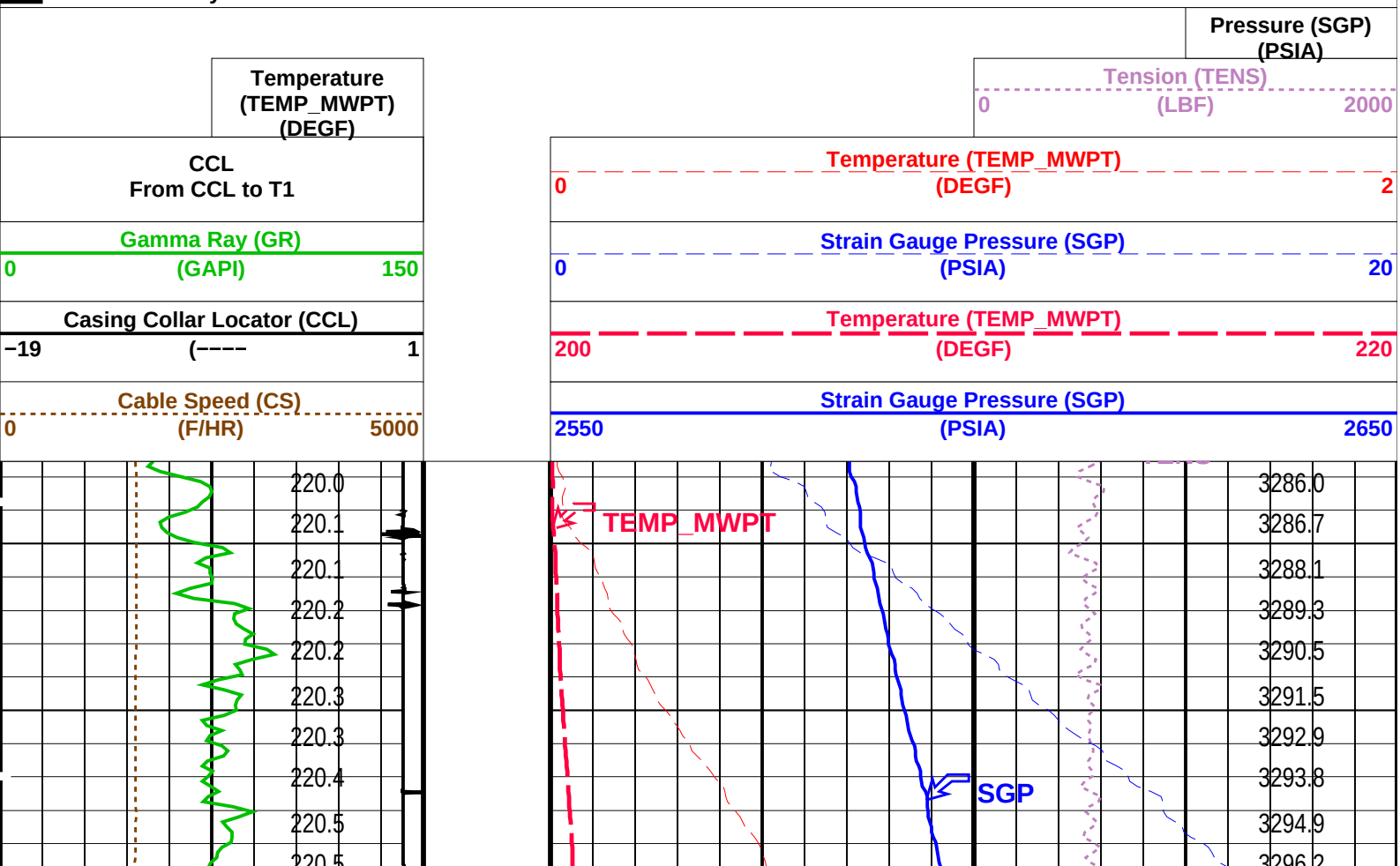
DEFAULT	PERFO_010LUP	FN:9	PRODUCER	12−Sep−2008 14:23

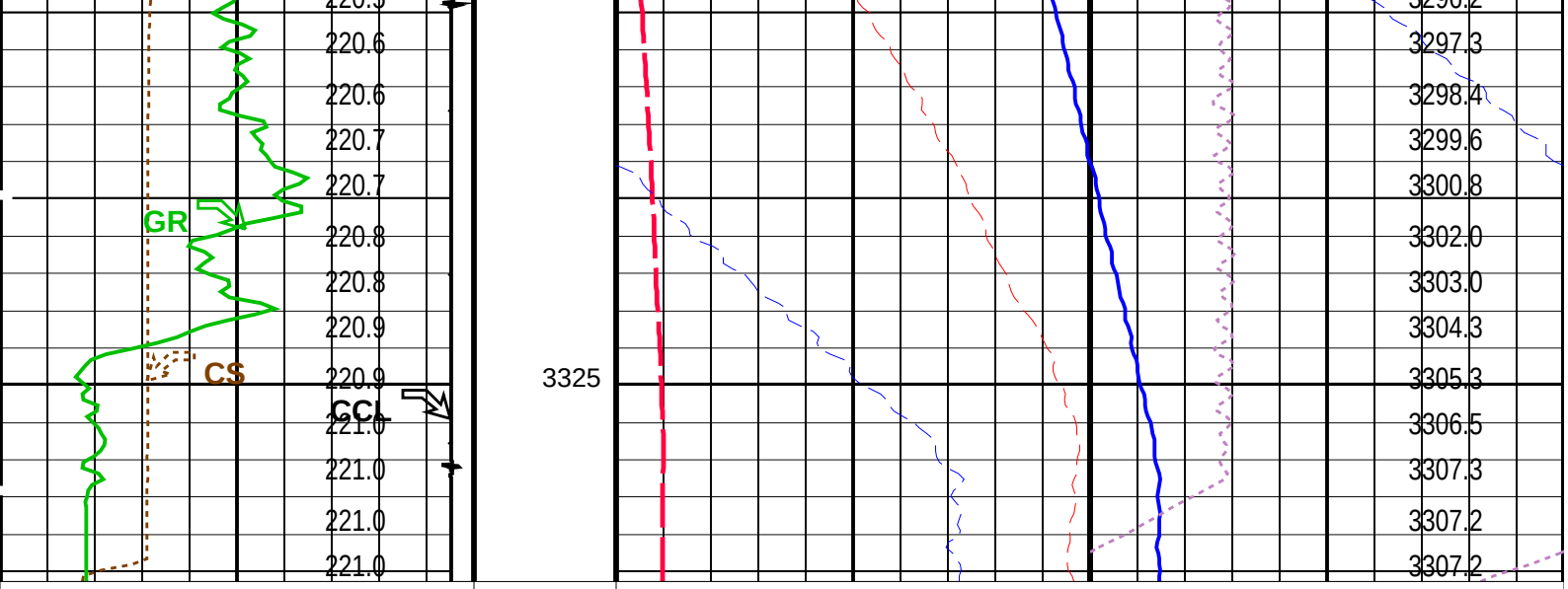
OP System Version: 15C0−309
MCM

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





Cable Speed (CS)	0 (F/HR) 5000	
Casing Collar Locator (CCL)	−19 (−−−− 1	
Gamma Ray (GR)	0 (GAPI) 150	
CCL From CCL to T1		
Temperature (TEMP_MWPT) (DEGF)		
Strain Gauge Pressure (SGP)	2550 (PSIA) 2650	
Temperature (TEMP_MWPT)	200 (DEGF) 220	
Strain Gauge Pressure (SGP)	0 (PSIA) 20	
Temperature (TEMP_MWPT)	0 (DEGF) 2	
Tension (TENS)	0 (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: 12−Sep−2008 14:23

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_010LUP	FN:9	PRODUCER	12−Sep−2008 14:23

Company: Esso Australia Pty Ltd.

Schlumberger

Well: A−21A
Field: Flounder
Rig: Prod 4 / Crane
Country: Australia

	2 1/8" Phased Powerjet Perforation 7 5/8" Mpbt Plug