



Company: Esso Australia Ltd.

Well: A-2

Field: Fortescue

Rig: Prod4/Crane

Country: Australia

GR Survey  
SBHP  
SBHT

Gippsland  
Basin  
Bass Strait

Elev.: K.B. 34.5 m  
G.L. -69 m  
D.F. 34.5 m

Permanent Datum: M.S.L.  
Log Measured From: K.B.  
Drilling Measured From: K.B.

Elev.: 0 m  
34.5 m above Perm. Datum

Prod4/Crane  
Fortescue  
Gippsland  
A-2  
Esso Australia Ltd.

LOCATION

State: Victoria

Max. Well Deviation 55 deg

Longitude 148 16' 36.62" E  
Latitude 038 24' 31.49" S

Logging Date	20-Jun-2006				
Run Number	1				
Depth Driller	3482 m				
Schlumberger Depth	3481.5 m				
Bottom Log Interval	3481.5 m				
Top Log Interval	7.6 m				
Casing Fluid Type	Production Fluids				
Salinity					
Density					
Fluid Level					
BIT/CASING/TUBING STRING					
Bit Size	7.000 in				
From					
To					
Casing/Tubing Size	5.500 in				
Weight	17 lbn/ft				
Grade	N-80				
From	3323.81 m				
To	3565 m				
Maximum Recorded Temperatures	222 degf				
Logger On Bottom	20-Jun-2006	Time	7:40		
Unit Number	Location	LEE001 Prod4/Ausl			
Recorded By	G Wright , S Gilbert				
Witnessed By	G Rimmer				

PVT DATA				Run 1	Run 2	Run		
Oil Density								
Water Salinity								
Gas Gravity								
Bo								
Bw								
1/Bg								
Bubble Point Pressure								
Bubble Point Temperature								
Solution GOR								
Maximum Deviation				55 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: 20-JUN-2006 8:09:47

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-C	Type:	2-23ZT
Serial Number:	797	Serial Number:	1037	Serial Number:	22372
Calibration Date:	10-May-2006	Calibration Date:	13-Jun-2006	Length:	4999.94 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1174	Conveyance Method: Wireline Rig Type: Offshore Mobile	
Calibration Cable Type:	2-32ZT	Calibration Gain:	1.35		
Wheel Correction 1:	-3	Calibration Offset:	772.00		
Wheel Correction 2:	-3				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Fortescue A2 Correlation log
Reference Log Run Number:	1
Reference Log Date:	

Depth Control Remarks

1. Correlated to solar log provided by cliant
2. IDW used as primary depth control
3. Z-Chart used as secondary depth control.

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 : Exxon Mobil Fortescue A2 composite log.
Objectives: Complete SBHP Survey & GR survey over the interval 3481.5m MDKB to 3380m MDKB.
The GR over the interval was activated with readings as high as 1000 Gapi .
Only shut in data was recorded during the station logs.
DEPTH(MDKB) SBHP(PSIA) SBHT(DEGF)

3478m	3197	222
3472m	3193	222
3462.5m	3184	221
3450m	3171	221
3400m	3119	220
3300m	3016	215
3000m	2713	201
2000m	1826	163
1000m	1152	132






Schlumberger Crew : Jake Annear , Andrew Hall

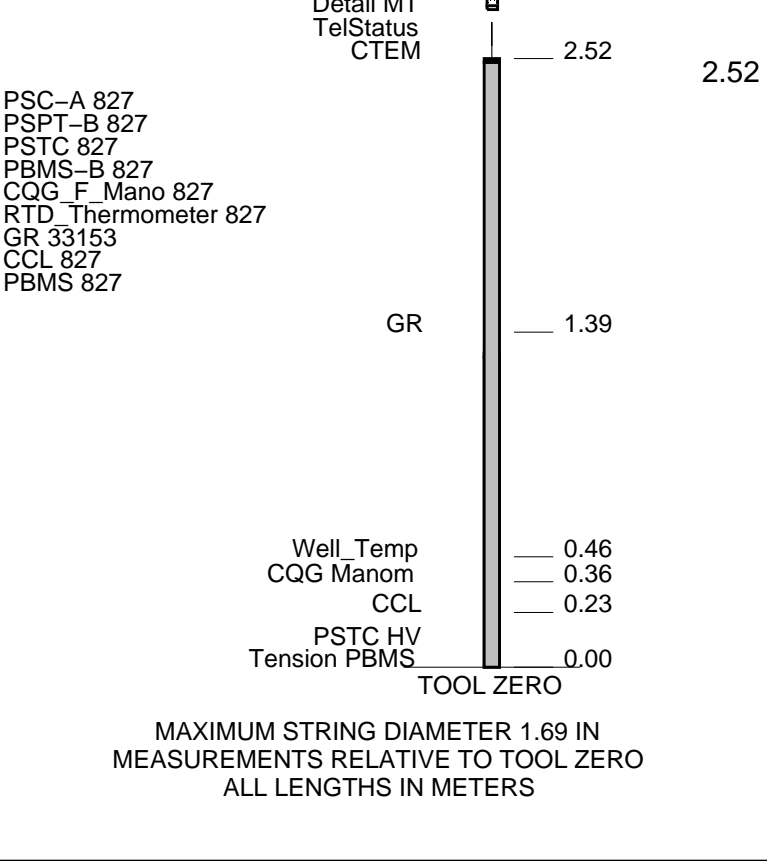
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>AusI06297084</div> <div>14C0-302</div> </div> </div>			
LOGGED INTERVAL	START	STOP	

EQUIPMENT DESCRIPTION

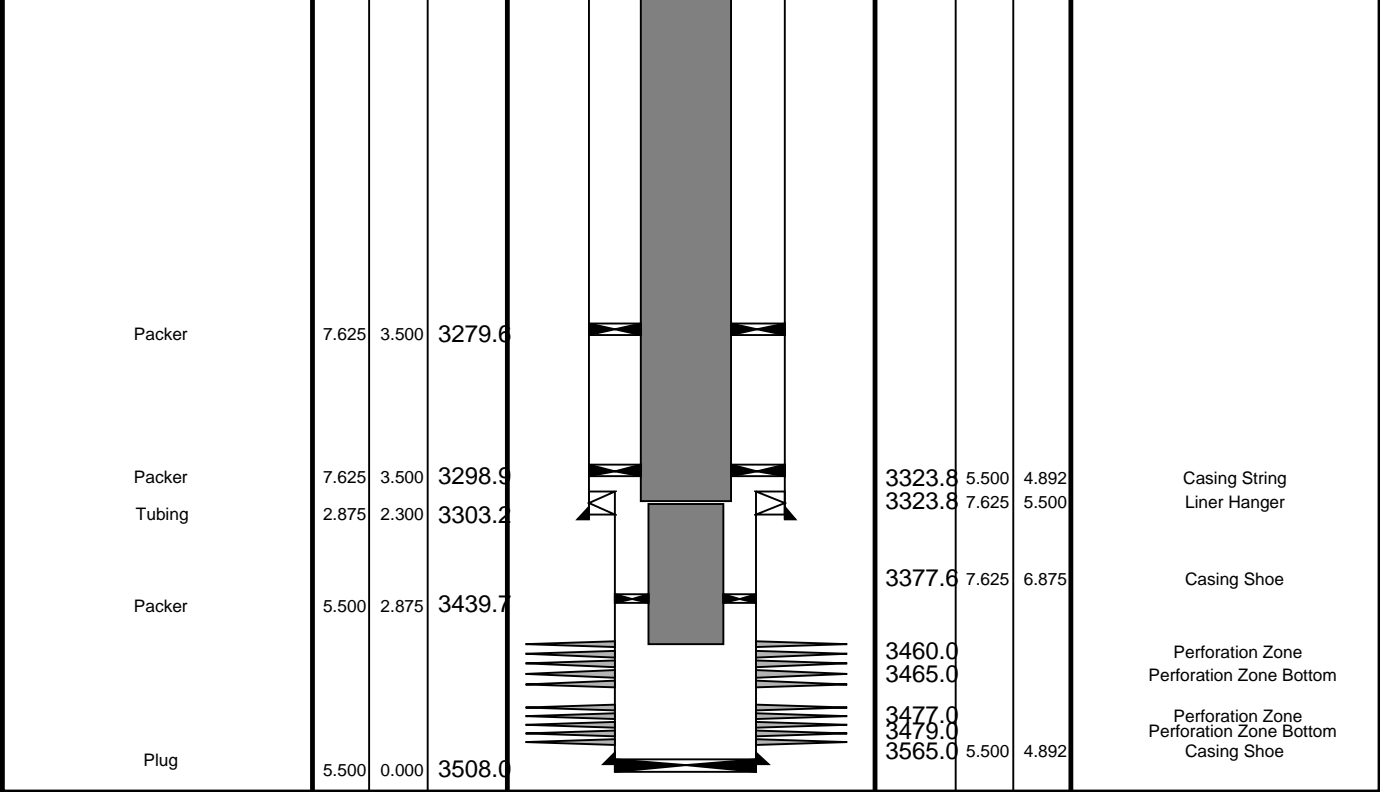
RUN 1

<div>SURFACE EQUIPMENT</div> <div> <div>WITM-A 792</div> <div>PSC_16MHZ</div> </div>	
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DOWNHOLE EQUIPMENT		
SWBS/B 761		5.59
SWBS/B 762		4.91
SWBS/B 763		4.22
SWBS/B 731		3.54
SWHA/A 726		2.85



Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing	3.500	2.992	11.8		13.8 13.4 13.4	10.750 7.625 10.750	10.050 6.875 7.625	Casing String Casing String Liner Hanger
SSSV	5.380	2.750	448.0					
					792.0	10.750	10.050	Casing Shoe
Gas Lift Mandrel	3.500	2.920	1264.5					
Gas Lift Mandrel	3.500	2.920	1912.2					
Landing Nipple	3.771	2.750	1929.5					



## Job Events Summary

MAXIS Field Log

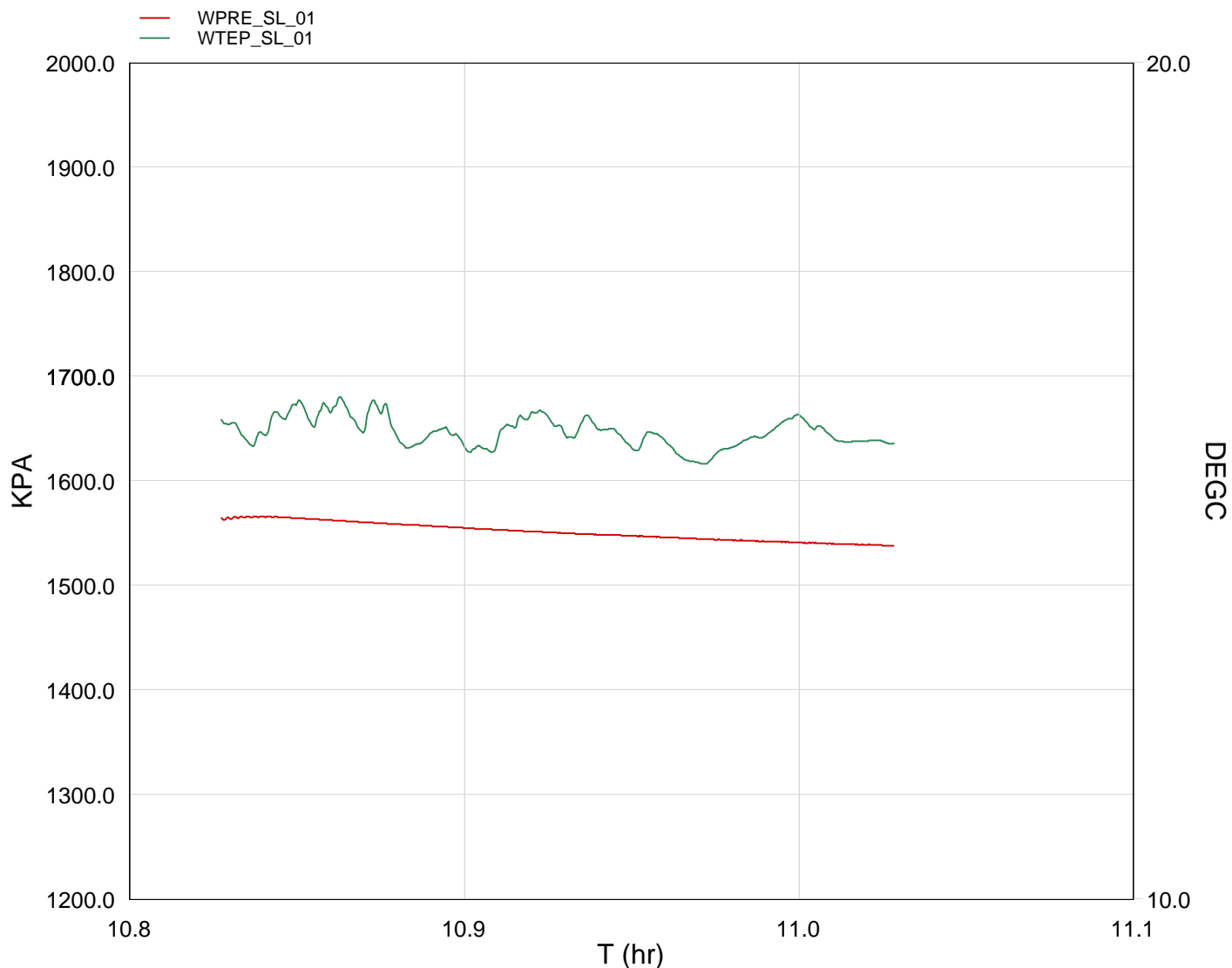
### Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Simulated Log	20-Jun-2006 6:27 000:03		PSP_010LUP
Log Pass (down)	20-Jun-2006 6:59 000:28	1.5 - 3489.8	PSP_012LDP
Log Pass (up)	20-Jun-2006 7:27 000:17	3489.8 - 3351.1	PSP_013LUP
Station Log	20-Jun-2006 7:52 000:13	3478.5 - 2.0	PSP_014LTP
Station Log	20-Jun-2006 8:09 000:10	3472.4 - 1.6	PSP_015LTP
Station Log	20-Jun-2006 8:22 000:12	3462.9 - 1.9	PSP_016LTP
Station Log	20-Jun-2006 8:37 000:13	3450.4 - 1.9	PSP_017LTP
Station Log	20-Jun-2006 8:51 000:13	3400.4 - 1.7	PSP_018LTP
Station Log	20-Jun-2006 9:06 000:13	3300.4 - 1.9	PSP_019LTP
Station Log	20-Jun-2006 9:29 000:13	3000.4 - 1.9	PSP_020LTP
Station Log	20-Jun-2006 9:48 000:22	2000.4 - 1.7	PSP_021LTP
Station Log	20-Jun-2006 10:23 000:12	1000.3 - 1.8	PSP_022LTP
Station Log	20-Jun-2006 10:49 000:12	7.6 - 1.8	PSP_023LTP



Static Station  
0m MDKB Inside Well Head

MAXIS Field Log



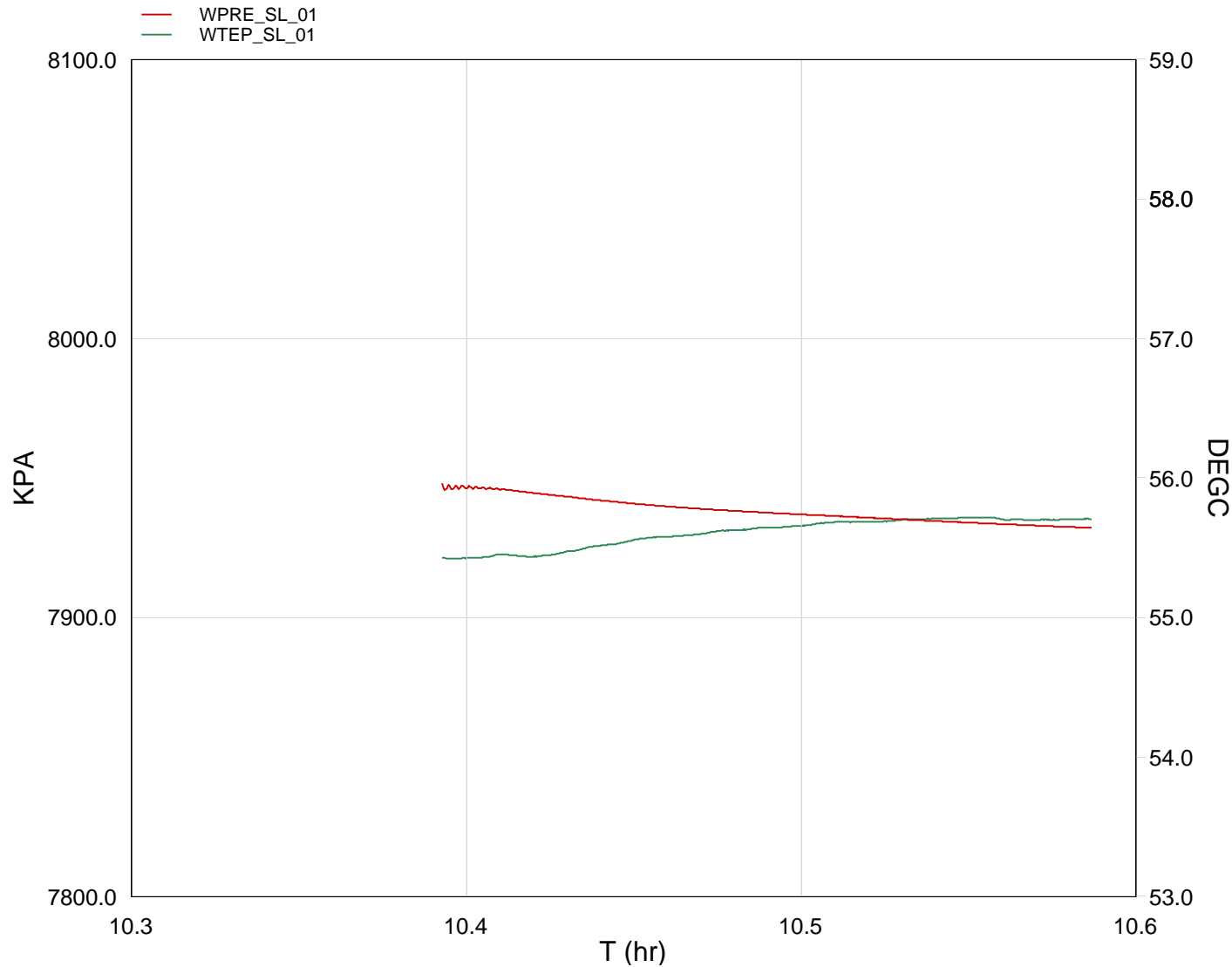
TIME	TOJ	WTEP_SL	WPRE_SL
14460.0000	10.8308	60.2644	226.9812
14520.0000	10.8475	60.4720	227.0511
14580.0000	10.8641	60.6695	226.5553
14640.0000	10.8808	59.8548	226.1013
14700.0000	10.8975	60.0189	225.6717
14760.0000	10.9141	60.1880	225.2428

14820.0000	10.9308	59.9451	224.8917
14880.0000	10.9475	59.9228	224.5292
14940.0000	10.9641	59.5643	224.2216
15000.0000	10.9808	59.7524	223.8898
15060.0000	10.9975	60.3515	223.6099
15120.0000	11.0141	59.8513	223.3429



Static Station  
1000m MDKB – 854m TVD

MAXIS Field Log



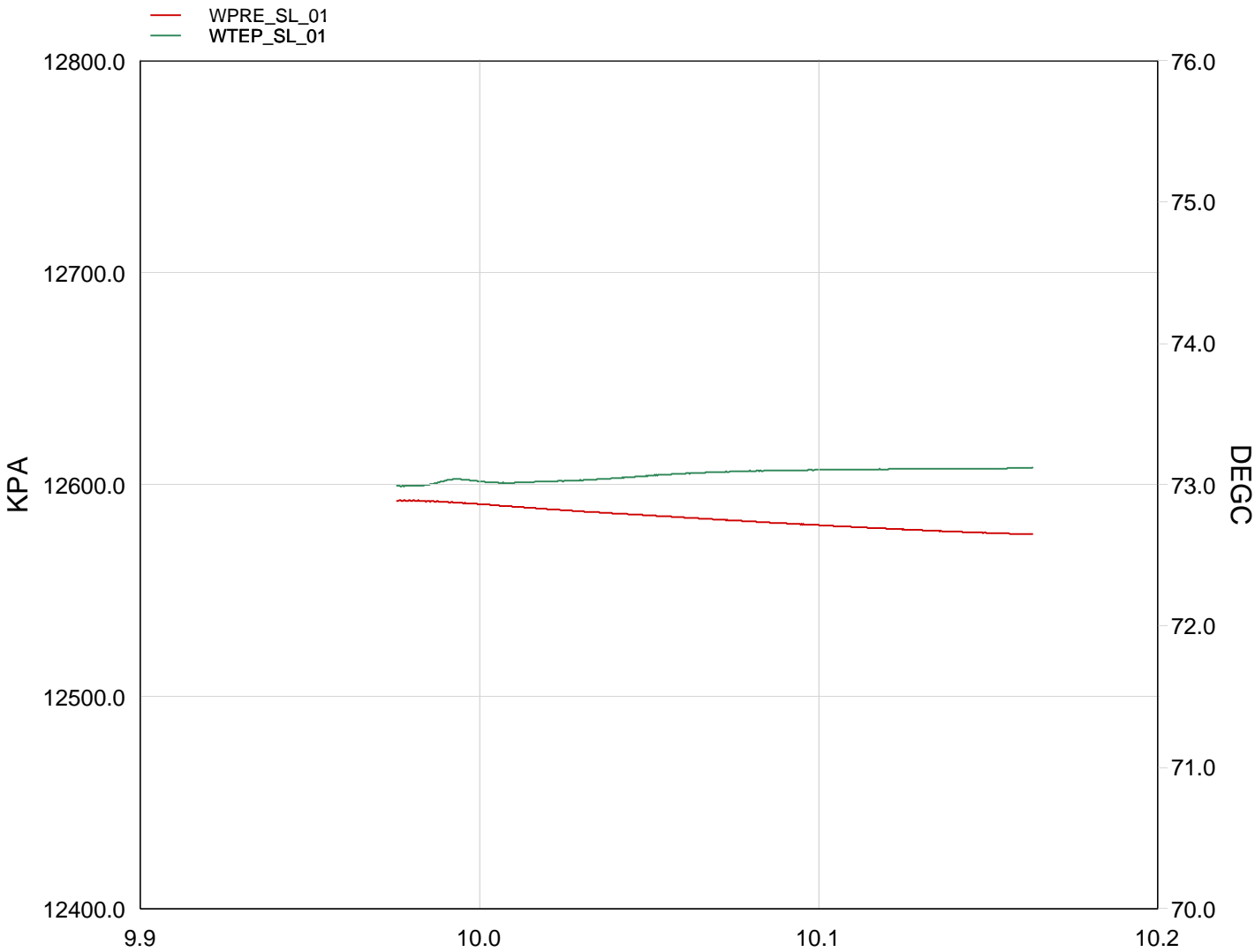
TIME TOJ WTEP\_SL WPRE\_SL

12900.0000	10.3975	131.7643	1152.5337
12960.0000	10.4141	131.8036	1152.3847
13020.0000	10.4308	131.8586	1152.0746
13080.0000	10.4475	131.9770	1151.7742
13140.0000	10.4641	132.0590	1151.5309
13200.0000	10.4808	132.1313	1151.3476
13260.0000	10.4975	132.1814	1151.1983
13320.0000	10.5141	132.2353	1151.0527
13380.0000	10.5308	132.2716	1150.9071
13440.0000	10.5475	132.2905	1150.7674
13500.0000	10.5641	132.2684	1150.6357
13560.0000	10.5808	132.2721	1150.5118



Static Station  
2000m MDKB – 1453m TVD

MAXIS Field Log



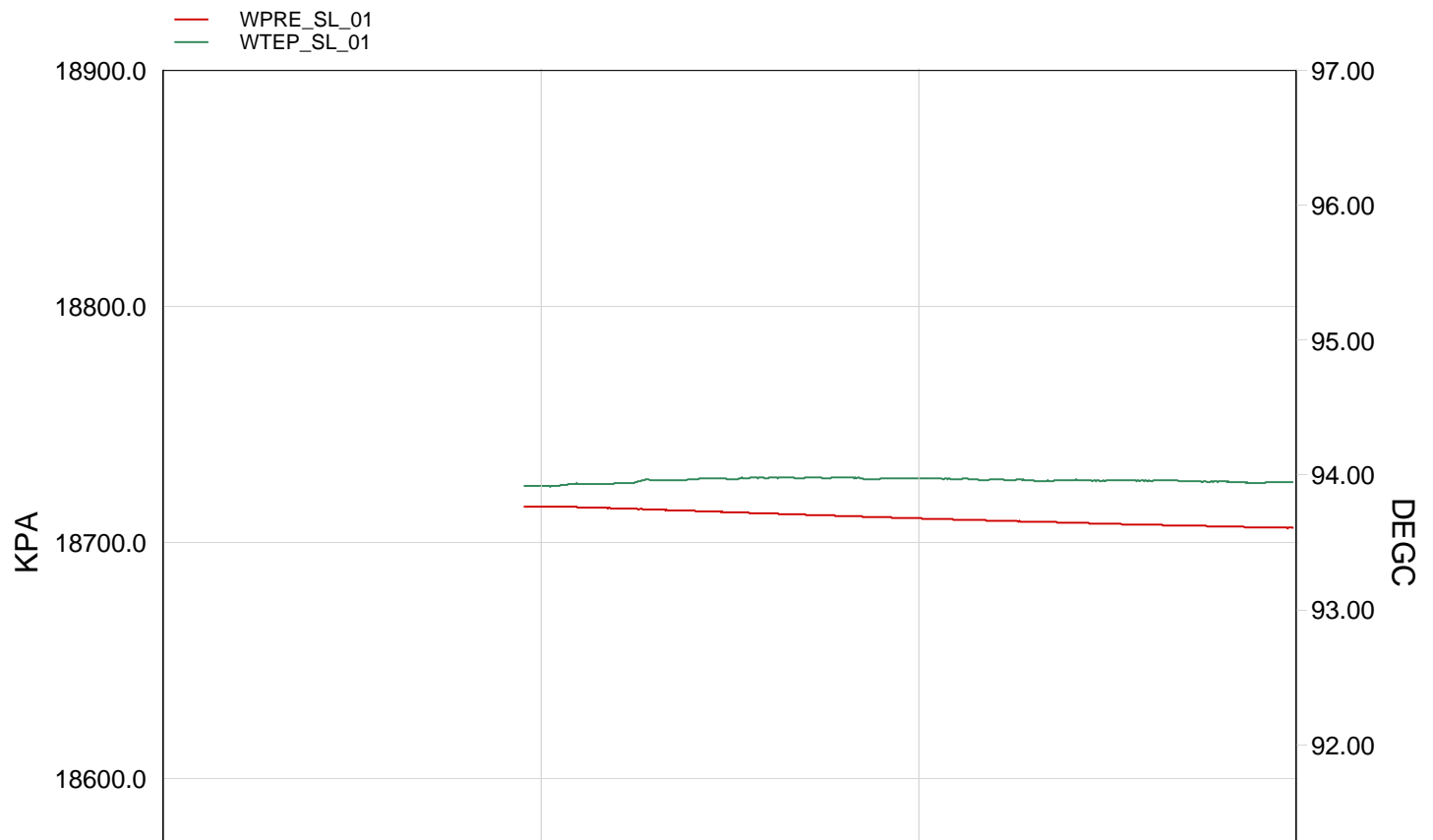
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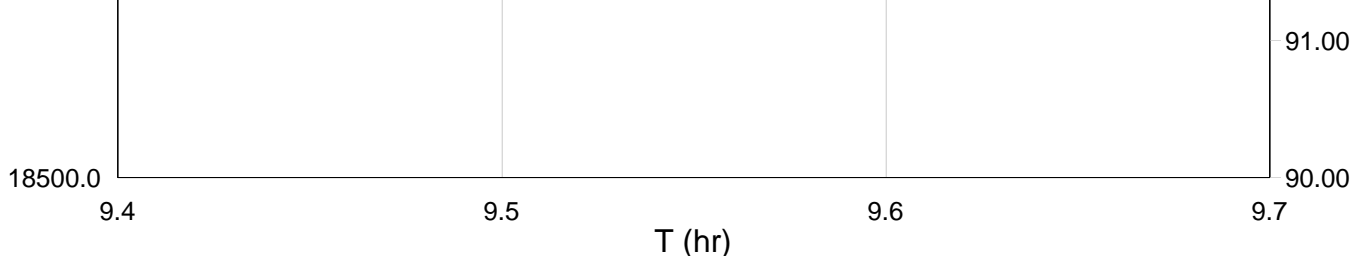
TIME	TOJ	WTEP_SL	WPRE_SL
11400.0000	9.9811	163.3887	1826.3785
11460.0000	9.9977	163.4576	1826.1870
11520.0000	10.0144	163.4356	1825.9118
11580.0000	10.0311	163.4636	1825.6476
11640.0000	10.0477	163.5080	1825.4175
11700.0000	10.0644	163.5506	1825.1844
11760.0000	10.0811	163.5775	1824.9550
11820.0000	10.0977	163.5914	1824.7474
11880.0000	10.1144	163.5983	1824.5408
11940.0000	10.1311	163.6024	1824.3614
12000.0000	10.1477	163.6049	1824.2091
12060.0000	10.1644	163.6221	1824.0742

**Schlumberger**

Static Station  
3000m MDKB – 2079.6m TVD

MAXIS Field Log



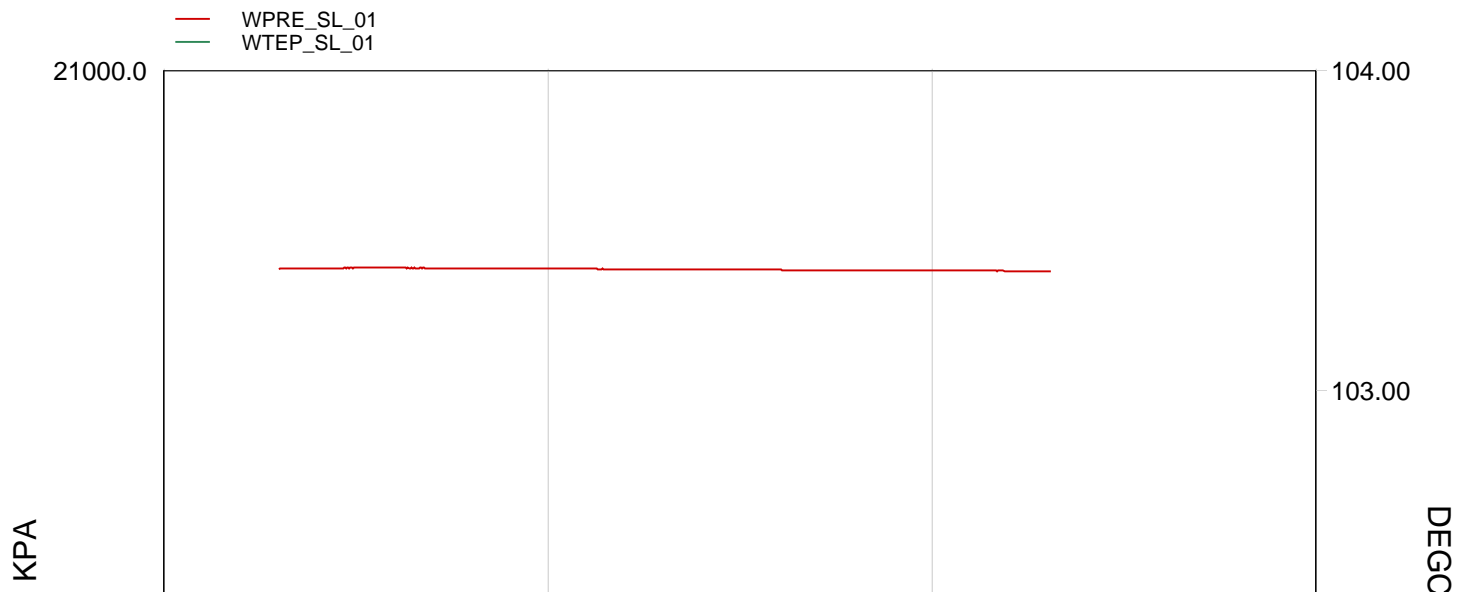


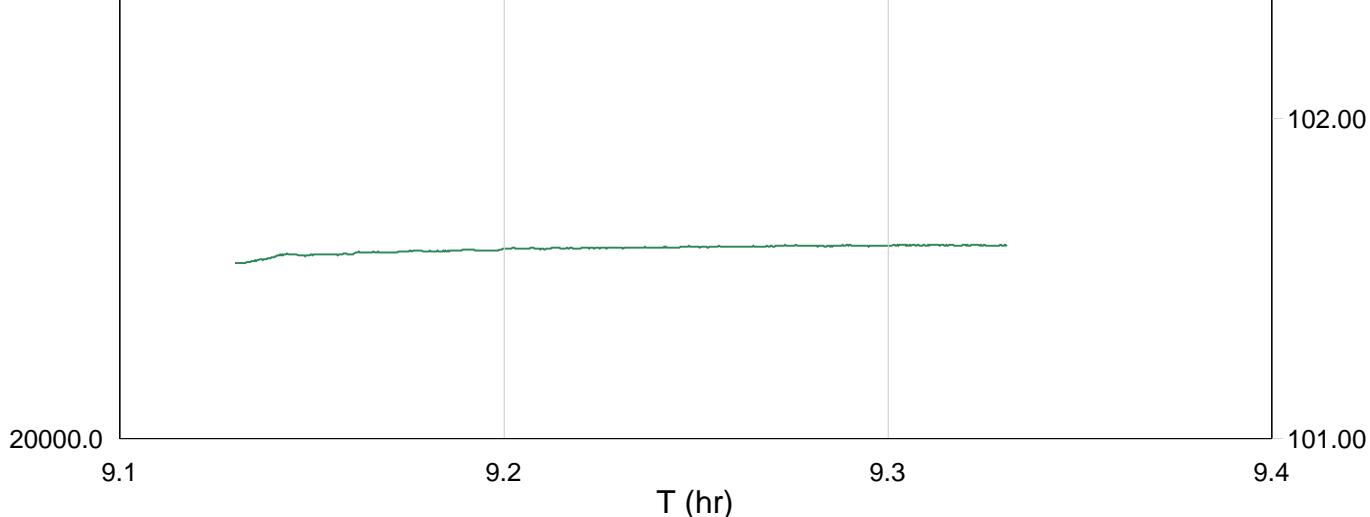
TIME	TOJ	WTEP_SL	WPRE_SL
9660.0000	9.4975	201.0542	2714.4220
9720.0000	9.5142	201.0830	2714.3505
9780.0000	9.5309	201.1310	2714.2246
9840.0000	9.5475	201.1571	2714.0951
9900.0000	9.5642	201.1654	2713.9621
9960.0000	9.5809	201.1687	2713.8300
10020.0000	9.5975	201.1592	2713.7052
10080.0000	9.6142	201.1448	2713.5933
10140.0000	9.6309	201.1246	2713.4825
10200.0000	9.6475	201.1270	2713.3725
10260.0000	9.6642	201.1346	2713.2814
10320.0000	9.6809	201.1141	2713.1935
10380.0000	9.6975	201.1072	2713.1065

**Schlumberger**

Static Station  
3300m MDKB – 2294.3m TVD

MAXIS Field Log





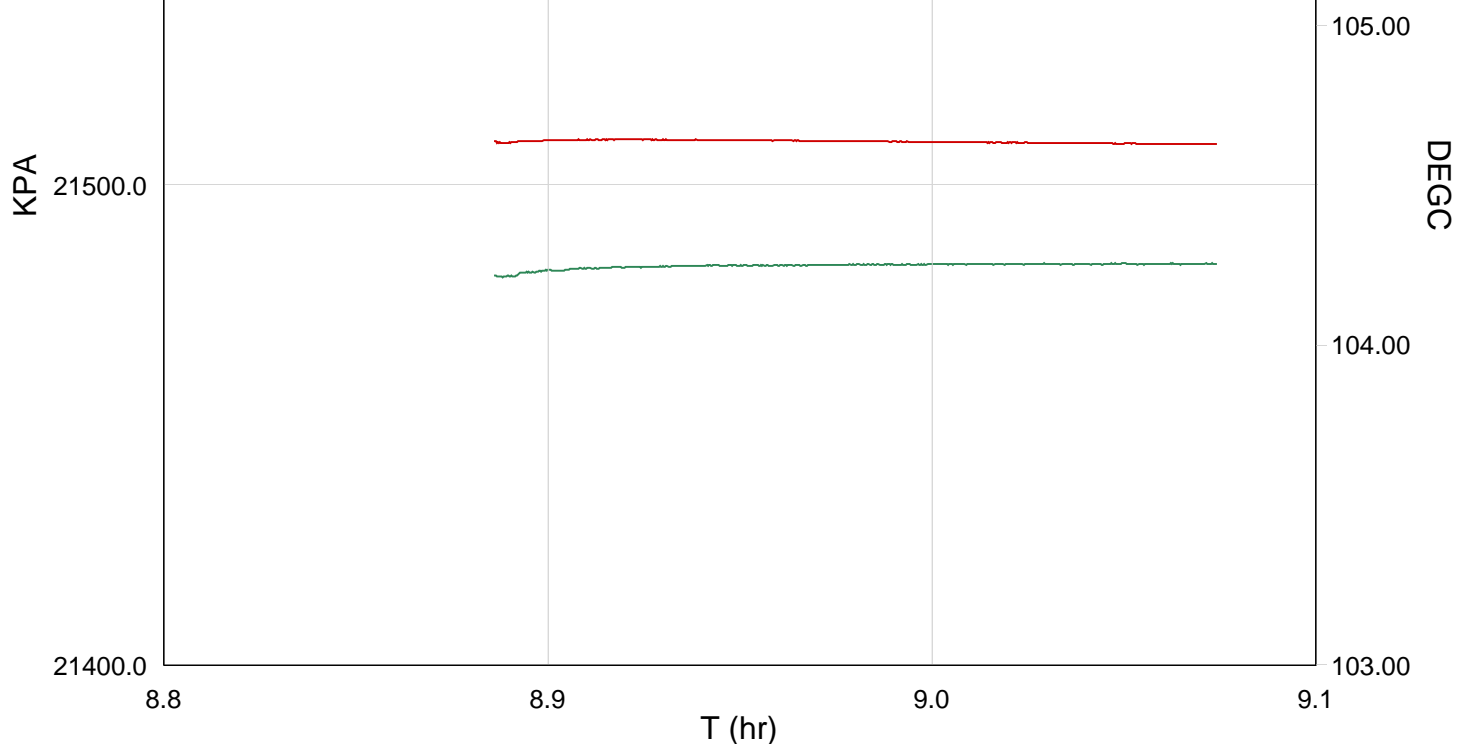
TIME	TOJ	WTEP_SL	WPRE_SL
8340.0000	9.1312	214.7862	3015.8597
8400.0000	9.1479	214.8313	3015.9876
8460.0000	9.1646	214.8479	3015.9860
8520.0000	9.1812	214.8546	3015.9439
8580.0000	9.1979	214.8595	3015.8943
8640.0000	9.2146	214.8735	3015.8373
8700.0000	9.2312	214.8723	3015.7803
8760.0000	9.2479	214.8802	3015.7270
8820.0000	9.2646	214.8807	3015.6826
8880.0000	9.2812	214.8848	3015.6376
8940.0000	9.2979	214.8858	3015.6031
9000.0000	9.3146	214.8888	3015.5598
9060.0000	9.3312	214.8897	3015.5312

**Schlumberger**

Static Station  
3400m MDKB – 2368.8m TVD

MAXIS Field Log





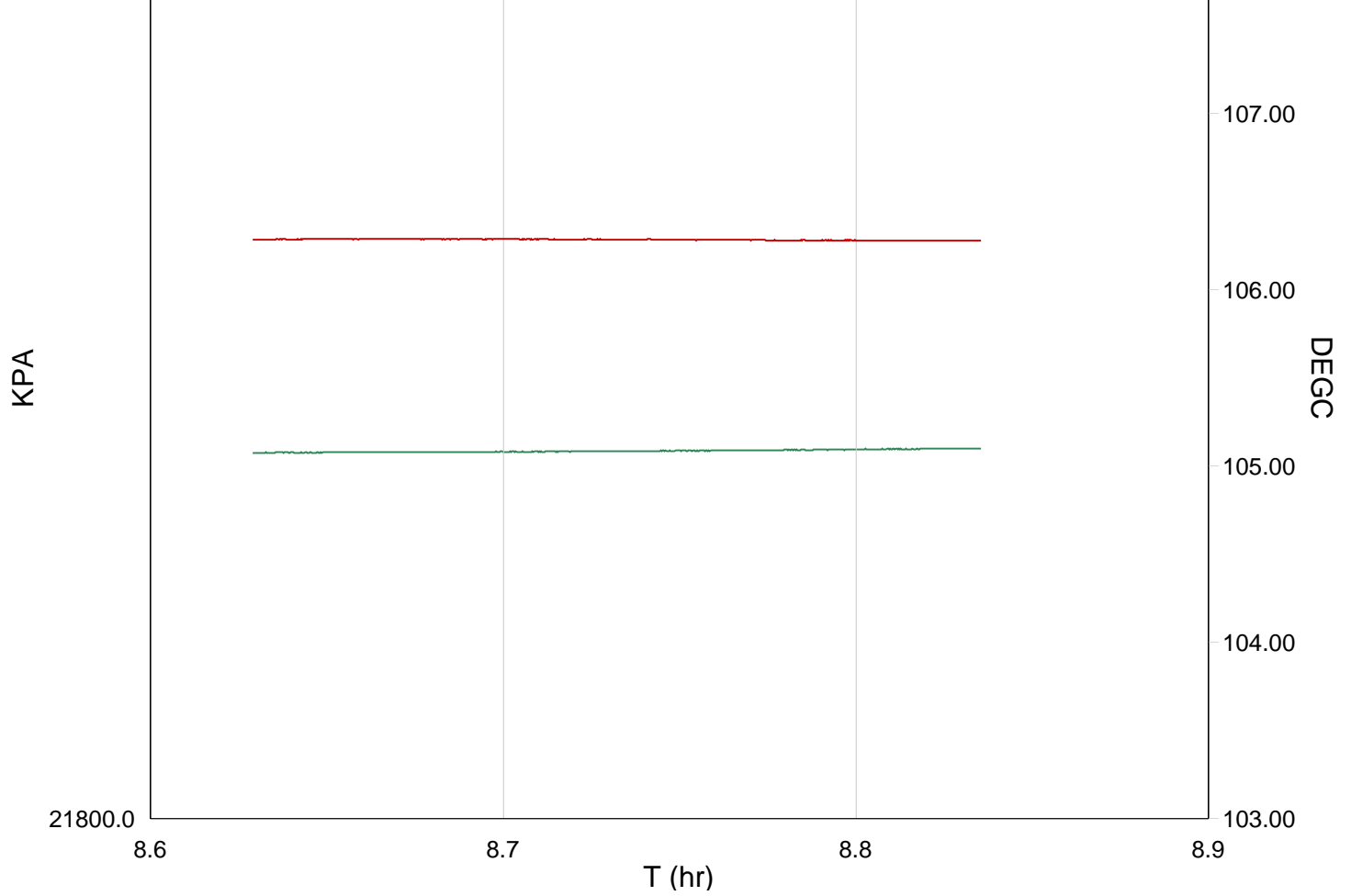
TIME	TOJ	WTEP_SL	WPRE_SL
7440.0000	8.8642	219.1303	3119.9602
7500.0000	8.8977	219.6176	3119.6527
7560.0000	8.9143	219.6360	3119.6906
7620.0000	8.9310	219.6439	3119.6877
7680.0000	8.9477	219.6501	3119.6745
7740.0000	8.9643	219.6499	3119.6606
7800.0000	8.9810	219.6560	3119.6382
7860.0000	8.9977	219.6541	3119.6272
7920.0000	9.0143	219.6562	3119.6009
7980.0000	9.0310	219.6567	3119.5866
8040.0000	9.0477	219.6594	3119.5727
8100.0000	9.0643	219.6572	3119.5611

**Schlumberger**

Static Station  
3450m MDKB – 2405.7m TVD

MAXIS Field Log



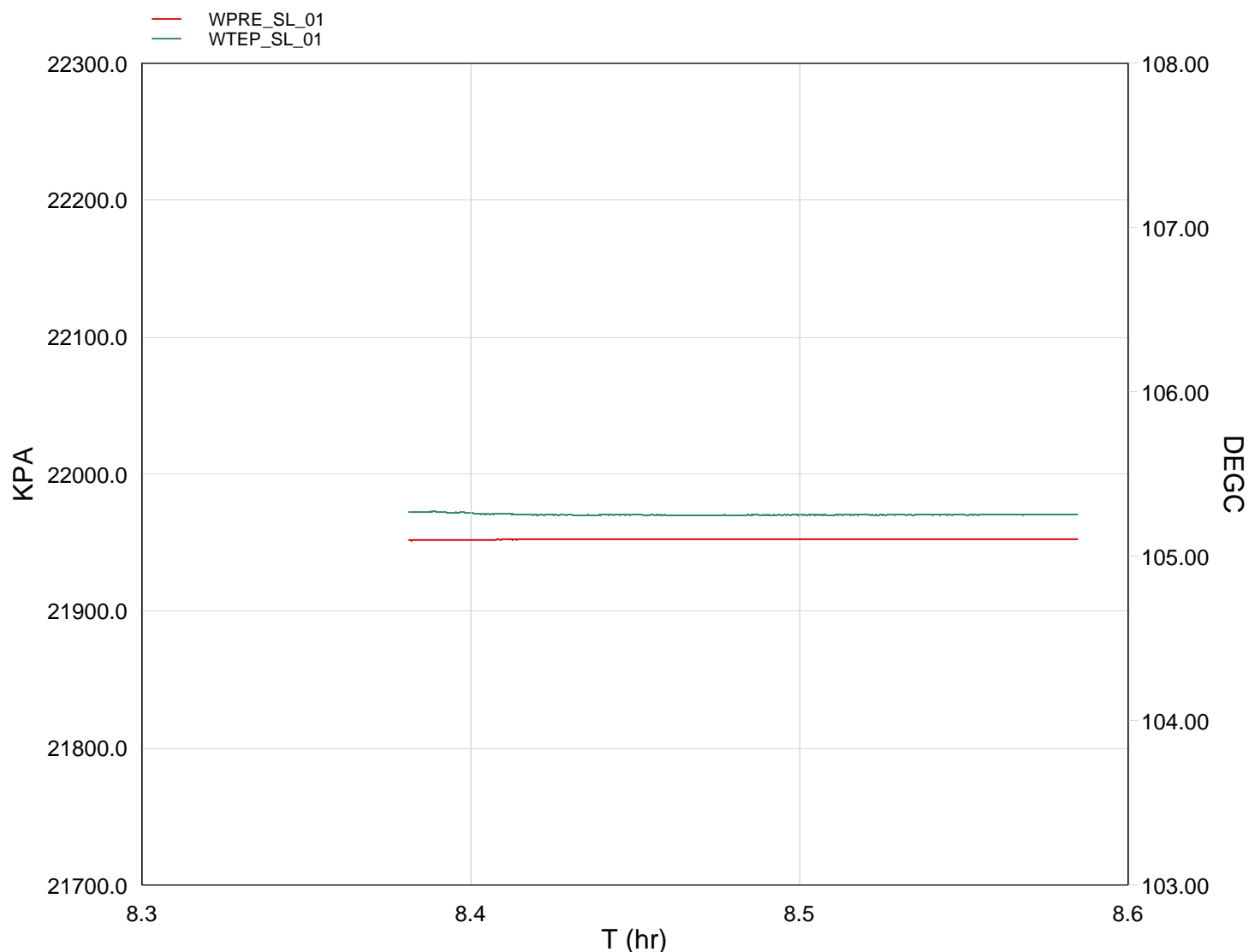


TIME	TOJ	WTEP_SL	WPRE_SL
6540.0000	8.6311	221.1376	3171.3457
6600.0000	8.6477	221.1394	3171.3595
6660.0000	8.6644	221.1432	3171.3633
6720.0000	8.6811	221.1426	3171.3600
6780.0000	8.6977	221.1466	3171.3602
6840.0000	8.7144	221.1514	3171.3586
6900.0000	8.7311	221.1555	3171.3542
6960.0000	8.7477	221.1566	3171.3493
7020.0000	8.7644	221.1621	3171.3466
7080.0000	8.7811	221.1684	3171.3390
7140.0000	8.7977	221.1677	3171.3397
7200.0000	8.8144	221.1738	3171.3364
7260.0000	8.8311	221.1806	3171.3330

**Schlumberger**

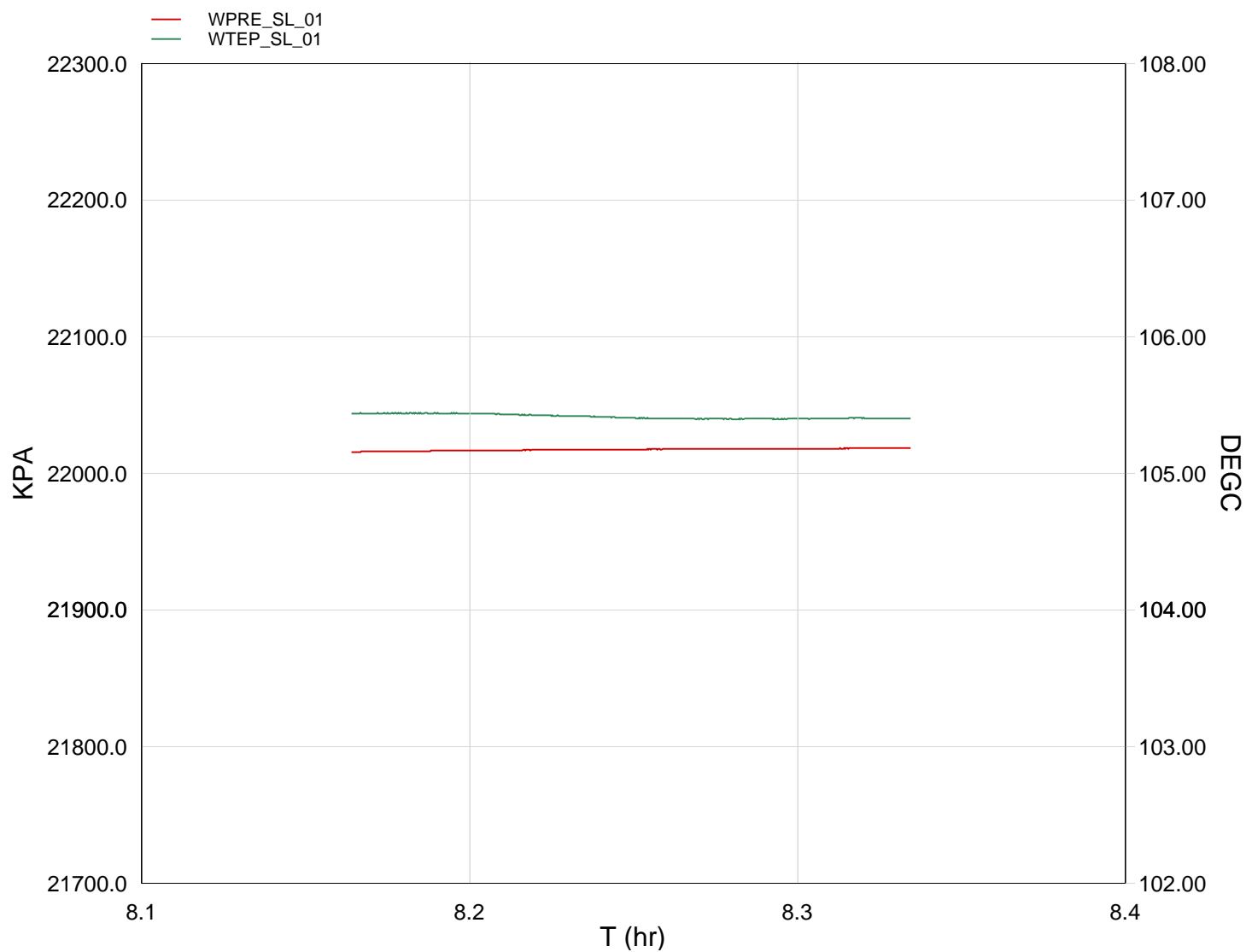
Static Station  
3462.5m MDKB – 2414.8m TVD

MAXIS Field Log



TIME	TOJ	WTEP_SL	WPRE_SL
5640.0000	8.3813	221.4832	3183.8271
5700.0000	8.3979	221.4829	3183.8790
5760.0000	8.4146	221.4626	3183.9128
5820.0000	8.4313	221.4538	3183.9337
5880.0000	8.4479	221.4556	3183.9506
5940.0000	8.4646	221.4509	3183.9570
6000.0000	8.4813	221.4533	3183.9629
6060.0000	8.4979	221.4575	3183.9725
6120.0000	8.5146	221.4568	3183.9730
6180.0000	8.5313	221.4553	3183.9821
6240.0000	8.5479	221.4576	3183.9803
6300.0000	8.5646	221.4580	3183.9928
6360.0000	8.5813	221.4582	3183.9903

## MAXIS Field Log

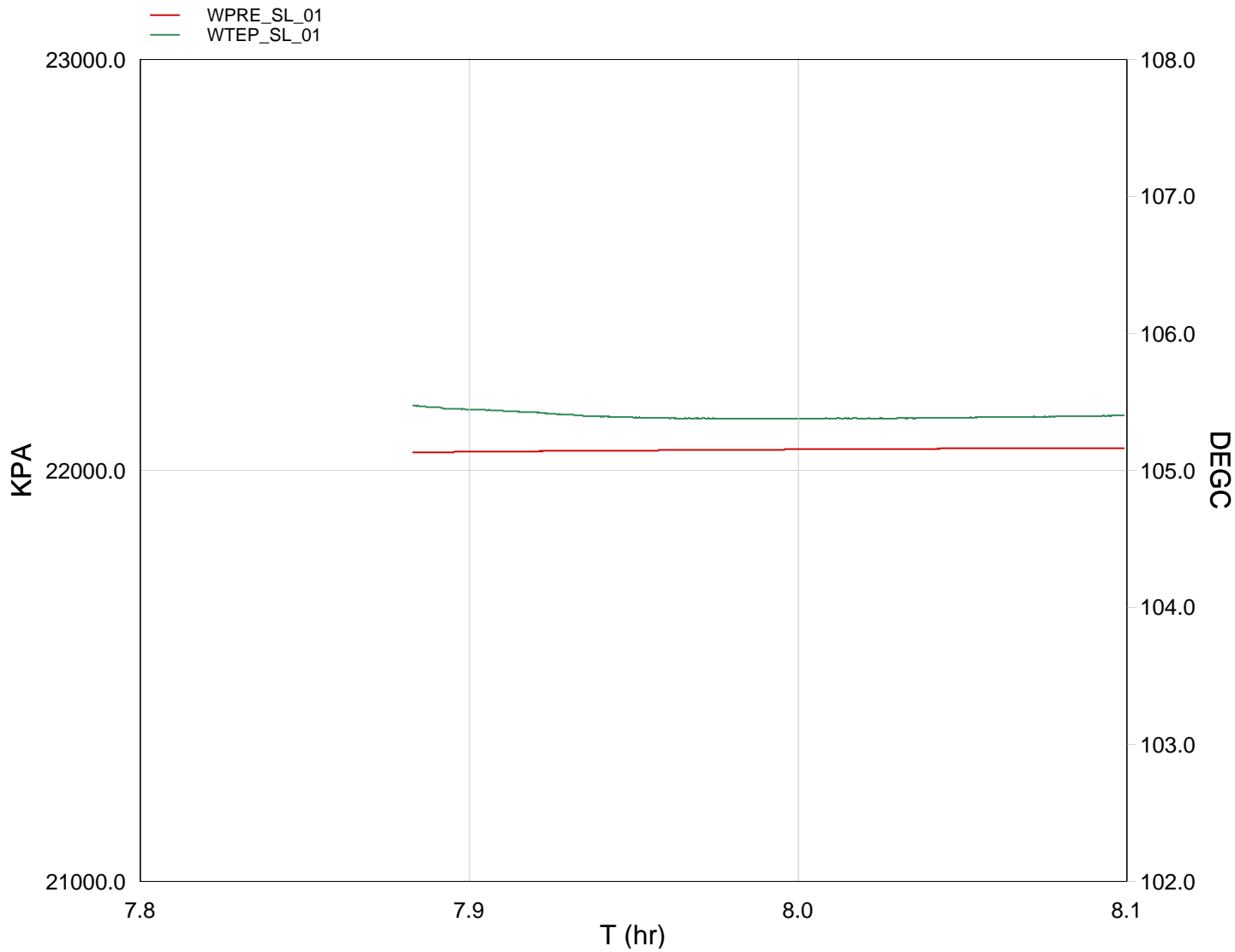


TIME	TOJ	WTEP_SL	WPRE_SL
4860.0000	8.1647	221.7902	3193.1311
4920.0000	8.1814	221.7929	3193.1944
4980.0000	8.1980	221.7903	3193.2549
5040.0000	8.2147	221.7748	3193.2986
5100.0000	8.2314	221.7551	3193.3495
5160.0000	8.2480	221.7344	3193.3872
5220.0000	8.2647	221.7195	3193.4081
5280.0000	8.2814	221.7166	3193.4345
5340.0000	8.2980	221.7196	3193.4546
5400.0000	8.3147	221.7238	3193.4851
5460.0000	8.3314	221.7236	3193.5133



Static Station  
3478m MDKB – 2429.5m TVD

MAXIS Field Log



TIME	TOJ	WTEP_SL	WPRE_SL
3840.0000	7.8717	221.5854	3197.7179
3900.0000	7.8979	221.8043	3197.3795
3960.0000	7.9146	221.7737	3197.5718
4020.0000	7.9313	221.7298	3197.7260
4080.0000	7.9479	221.7004	3197.8543
4140.0000	7.9646	221.6820	3197.9889
4200.0000	7.9810	221.6824	3198.1175
4260.0000	7.9977	221.6797	3198.2332

4320.0000	8.0143	221.6871	3198.3436
4380.0000	8.0310	221.6881	3198.4498
4440.0000	8.0477	221.6925	3198.5398
4500.0000	8.0643	221.7003	3198.6232
4560.0000	8.0810	221.7099	3198.7060
4620.0000	8.0977	221.7214	3198.7781

Schlumberger

GR Survey

MAXIS Field Log

Company: Esso Australia Ltd.

Well: A-2

### Input DLIS Files

DEFAULT	PSP_013LUP	FN:12	PRODUCER	20-Jun-2006 07:27	3489.8 M	3351.1 M
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### Output DLIS Files

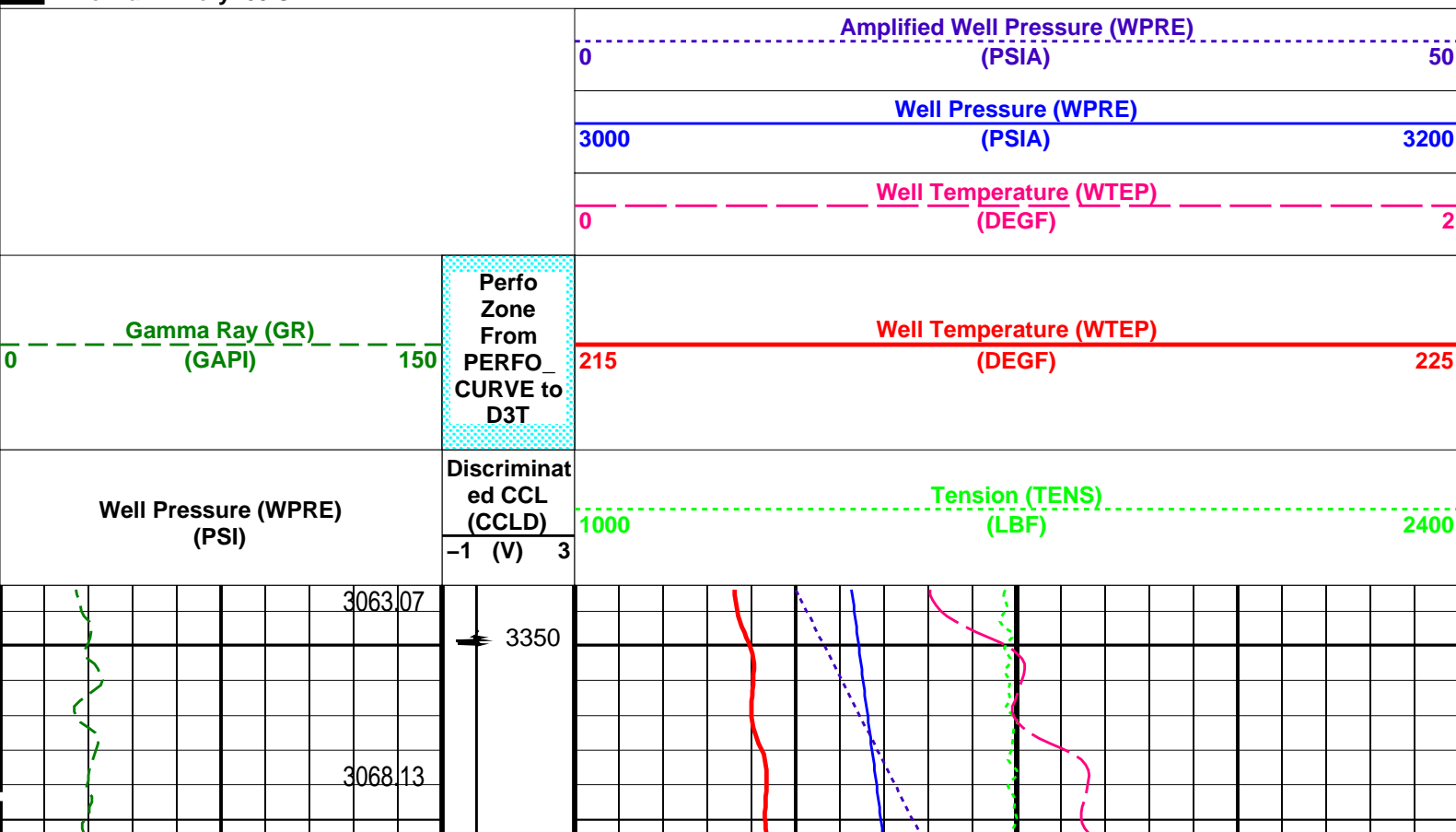
DEFAULT	PSP_032PUP	FN:30	PRODUCER	20-Jun-2006 13:47	3486.5 M	3348.2 M
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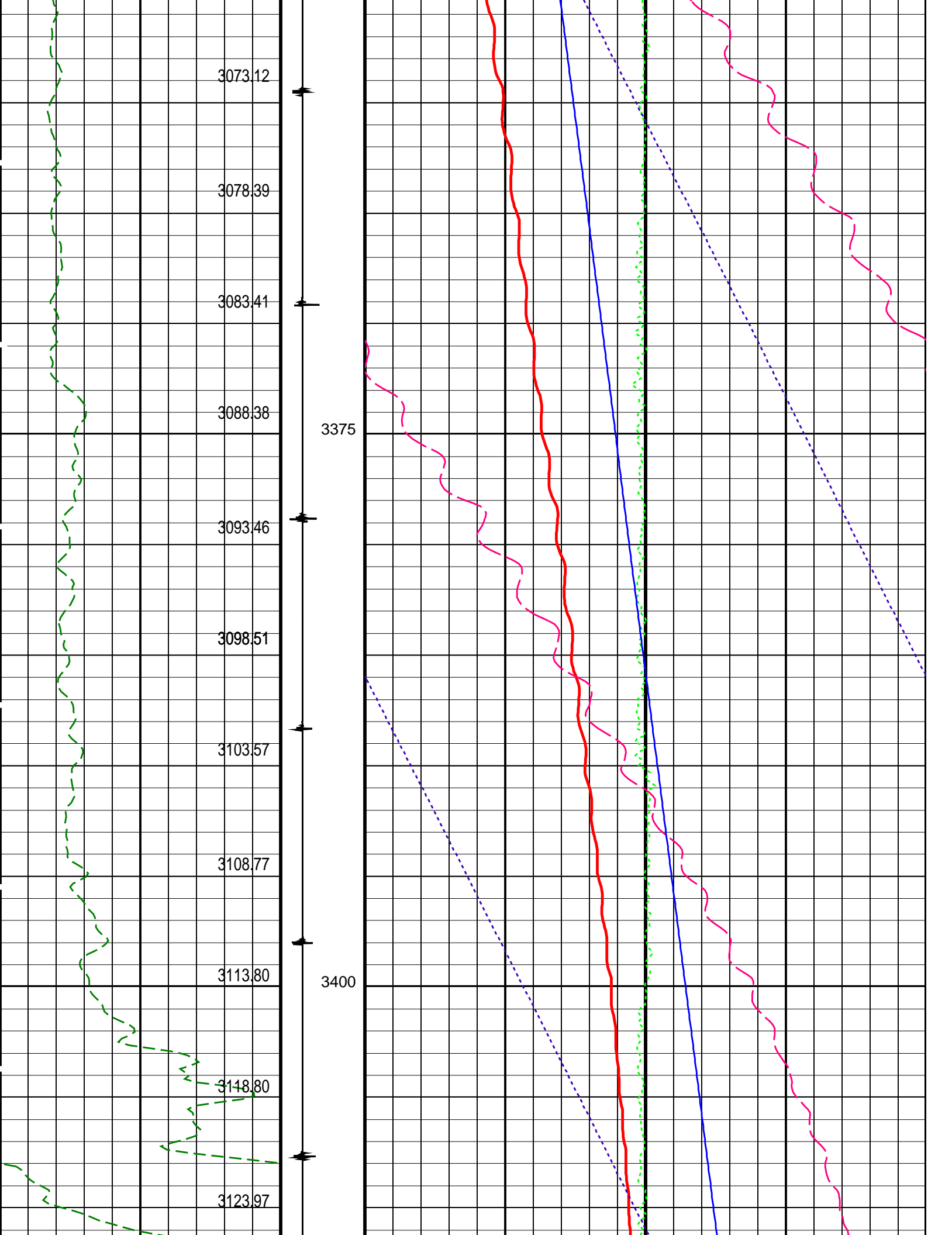
OP System Version: 14C0-302  
MCM

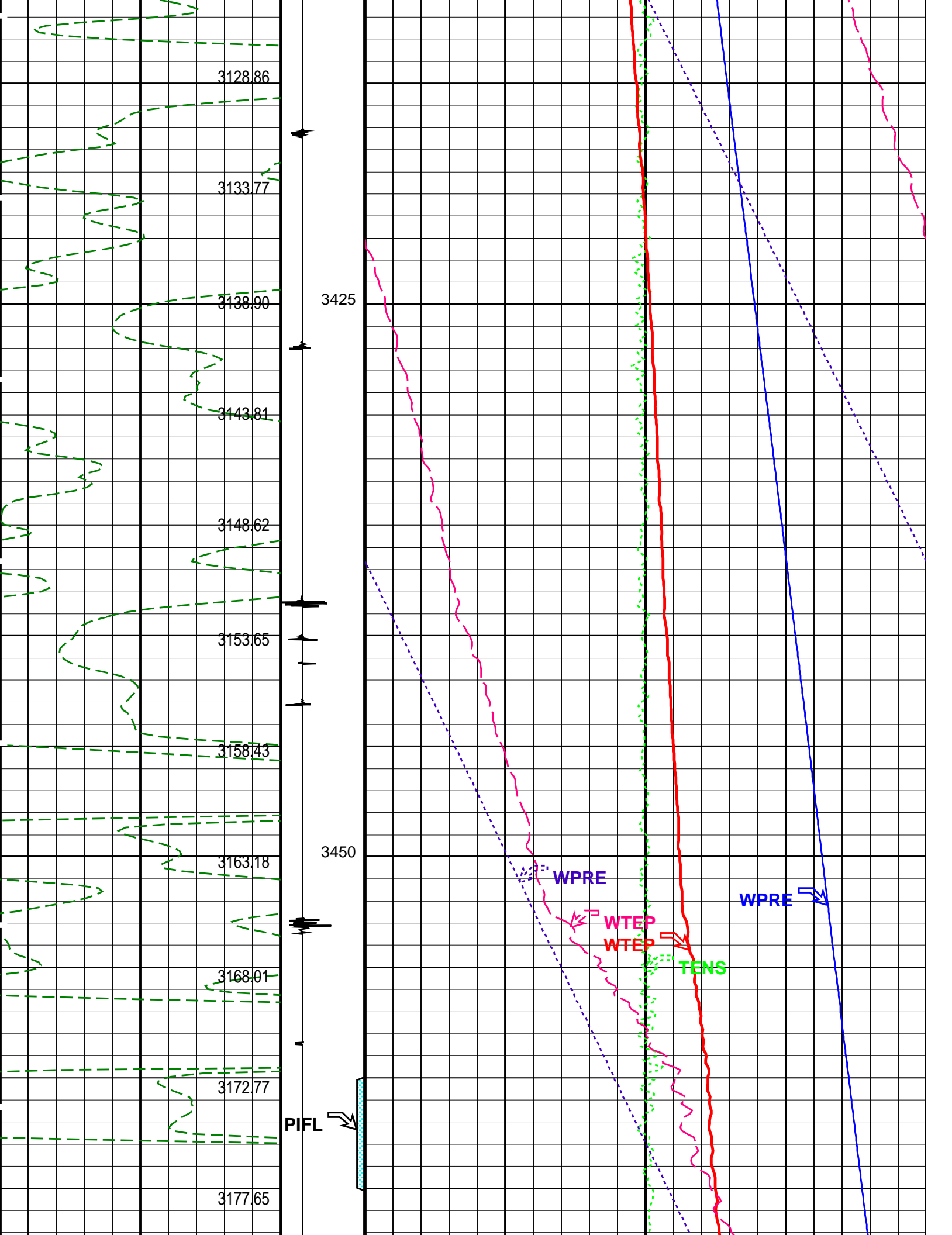
PSPT-A/B 14C0-302

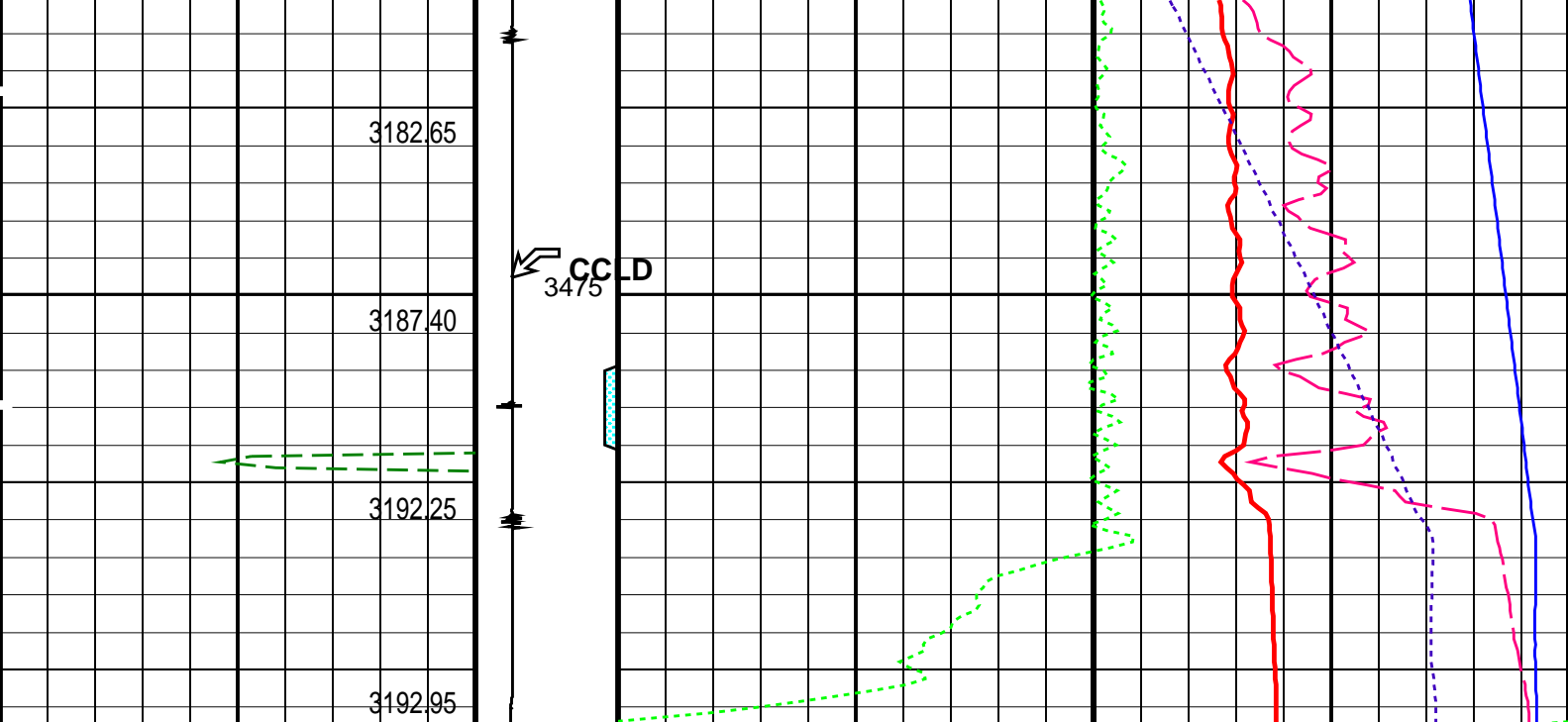
### PIP SUMMARY

Time Mark Every 60 S









Well Pressure (WPRES) (PSI)	Discriminated CCL (CCLD)	Tension (TENS) (LBF)		
	-1 (V) 3	1000	2400	
Gamma Ray (GR) (GAPI)	Perfo Zone From PERFO_CURVE to D3T	Well Temperature (WTEP) (DEGF)		
0 150		215	225	
		Well Temperature (WTEP) (DEGF)		
		0	2	
		Well Pressure (WPRES) (PSIA)		
		3000	3200	
		Amplified Well Pressure (WPRES) (PSIA)		
		0	50	

PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1\_1 Vertical Scale: 1:200 Graphics File Created: 20-Jun-2006 13:47

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	-3.4 M RECOMPUTE

Input DLIS Files					
DEFAULT	PSP_013LUP	FN:12	PRODUCER	20-Jun-2006 07:27	3489.8 M 3351.1 M
Output DLIS Files					
DEFAULT	PSP_032PUP	FN:30	PRODUCER	20-Jun-2006 13:47	

Company:

Esso Australia Ltd.

Schlumberger

Well:

A-2

Field:

Fortescue

Rig:

Prod4/Crane

Country:

Australia

GR Survey

SBHP

SBHT