W	R	U	U	W	T	F	G	W	O	T	F	B		F	D	S	O	T	B	S	D	R	U

Rig: Snapper

Schlumberger

Company: **Esso Australia Pty Ltd.**

Well: **A−13**

Field: **Snapper**

Rig: **Snapper** Country: **Australia**

RST−C
Sigma
Survey

Field: Snapper
Location: Gippsland
Well: A−13
Company: Esso Australia Pty Ltd.

LOCATION

Gippsland
Basin
Bass Strait

Elev.: K.B. 32.4 m
G.L. −55 m
D.F. 32.4 m

Permanent Datum: MSL — Elev.: 0 m
Log Measured From: DF — 32.4 m above Perm. Datum
Drilling Measured From: DF

State:	Max. Well Deviation	Longitude	Latitude
Victoria	59 deg	148*01'26.72"E	038*11'43.23"S

	Run 1	Run 2	Run 3
PVT DATA — Oil Density			
PVT DATA — Water Salinity			
PVT DATA — Gas Gravity			
PVT DATA — Bo			
PVT DATA — Bw			
PVT DATA — 1/Bg			
PVT DATA — Bubble Point Pressure			
PVT DATA — Bubble Point Temperature			
Solution GOR			
Maximum Deviation	59 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		9−Nov−2006					Logging Date
Run Number		One					Run Number
Depth Driller		1914 m					Depth Driller
Schlumberger Depth		1914 m					Schlumberger Depth
Bottom Log Interval		1640 m					Bottom Log Interval
Top Log Interval		1914 m					Top Log Interval
Casing Fluid Type		Production Fluids					Casing Fluid Type
Salinity							Salinity
Density							Density
Fluid Level							Fluid Level
BIT/CASING/TUBING STRING							BIT/CASING/TUBING STRING
Bit Size		12.250 in					Bit Size
From							From
To							To
Casing/Tubing Size		9.625 in					Casing/Tubing Size
Weight		43.5 lbm/ft					Weight
Grade		K−55					Grade
From		12.27 m					From
To		2070 m					To
Maximum Recorded Temperatures		173 degF					Maximum Recorded Temperatures
Logger On Bottom	Time	9−Nov−2006	22:38				Logger On Bottom / Time
Unit Number	Location	889	AUSL/Prod4				Unit Number / Location
Recorded By		S Gilbert , G Wright					Recorded By
Witnessed By		G Rimmer , A Smyth					Witnessed By

Run 4

DEPTH SUMMARY LISTING

Date Created: 9−NOV−2006 1:58:42

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−EB	Type:	CMTD−B/A	Type:	2−32ZT
Serial Number:	6373	Serial Number:	949	Serial Number:	24425
Calibration Date:	28−Sep−2006	Calibration Date:	2−Nov−2006	Length:	6600.14 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1174		
Calibration Cable Type:	2−32ZT	Calibration Gain:	1.01	Conveyance Method:	Wireline
Wheel Correction 1:	−2	Calibration Offset:	162.00	Rig Type:	Offshore_Mobile
Wheel Correction 2:	−2				

Depth Control Parameters

Log Sequence: Subsequent Log In the Well

Reference Log Name: Solar composite.
Reference Log Run Number: 1
Reference Log Date:

Depth Control Remarks

1. Correlated to Solar Composite Log supplied with program.
2. IDW−EB 6373 used as primary depth control.
3. Z−chart used as back−up.
4.
5.
6.

OTHER SERVICES1	OTHER SERVICES2
OS1: None	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log Correlated to Solar Composite Log Provided by Client	
Maximum Well deviation: 59 deg at 1017m MDKB	
Objectives: Log from HUD to 1640m MDKB for a base line Gamma Ray	
Then carry out 2 passes from HUD to 1640m MDKB with RST−C	
in Sigma Mode with the well shut in .	
SBHT: 173 degf. SBHP: 1924 psia	
HUD: 1914m MDKB.	

Crew : John Light , Chris Shiells (Days)
Kevin Kerr , Andy Hall (Nights)

RUN 1		RUN 2	
SERVICE ORDER #:	Ausl06328209	SERVICE ORDER #:	
PROGRAM VERSION:	14C0−302	PROGRAM VERSION:	
FLUID LEVEL:		FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

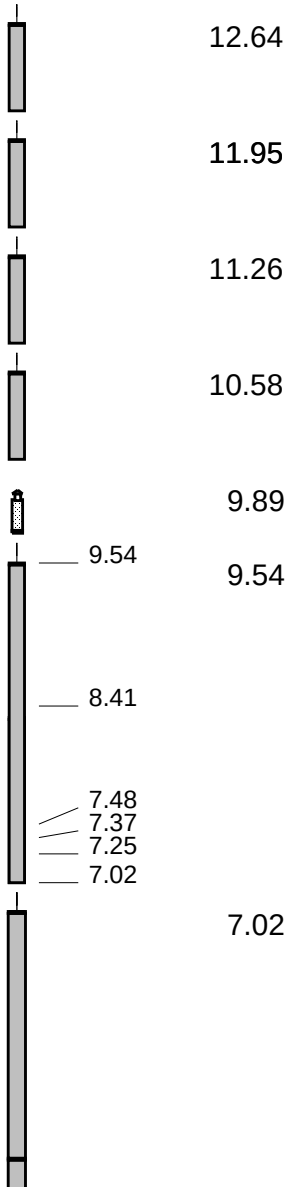
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

WITM−A 827
PSC_16MHZ 827

DOWNHOLE EQUIPMENT



AH−SWBS
AH−SWBS 763

AH−SWBS
AH−SWBS 762

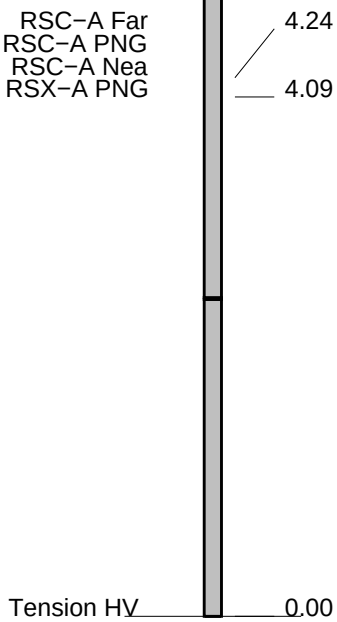
AH−SWBS
AH−SWBS 761

AH−SWBS
AH−SWBS 731

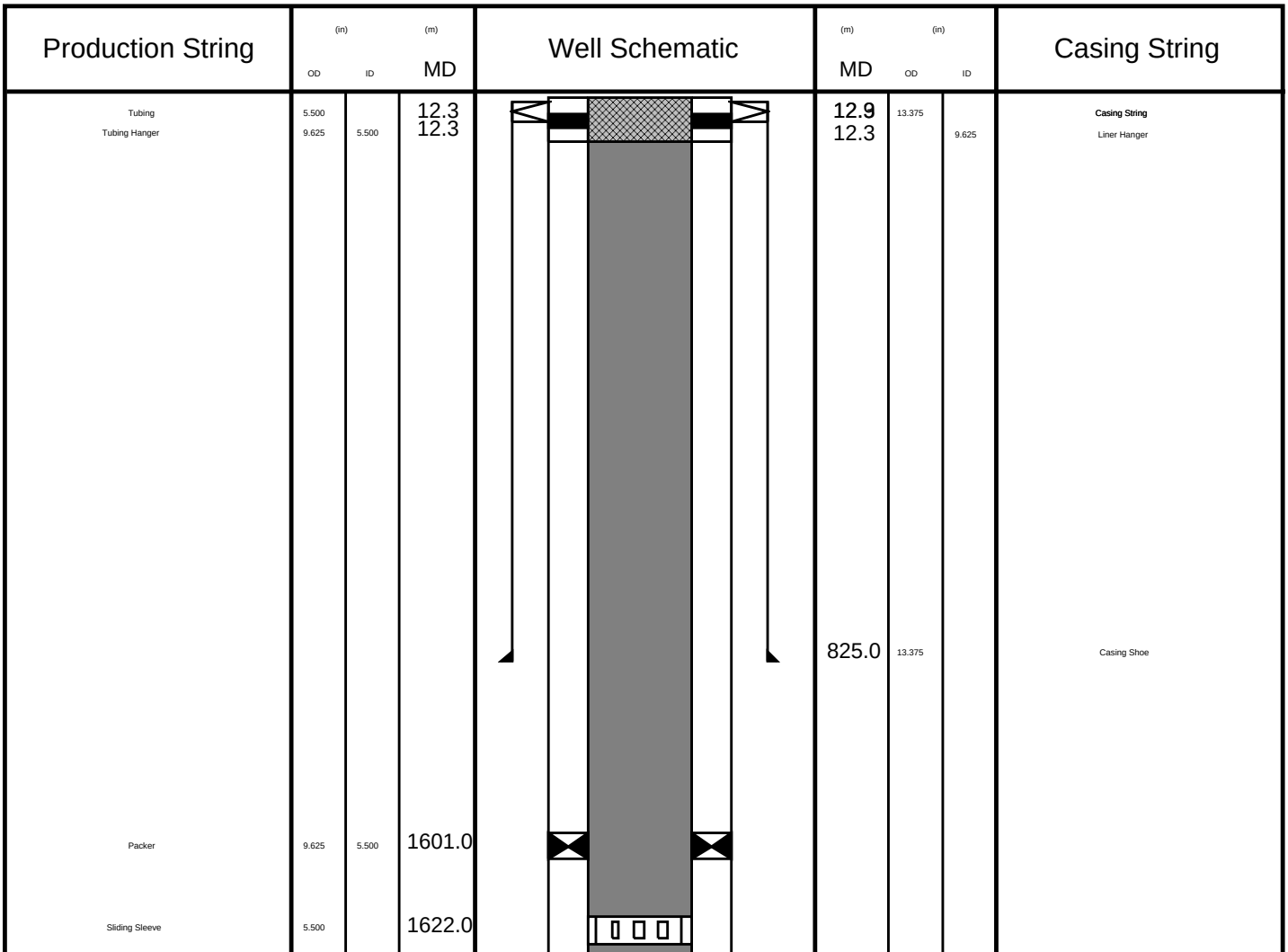
MH−SWHS
MH−SWHS 726

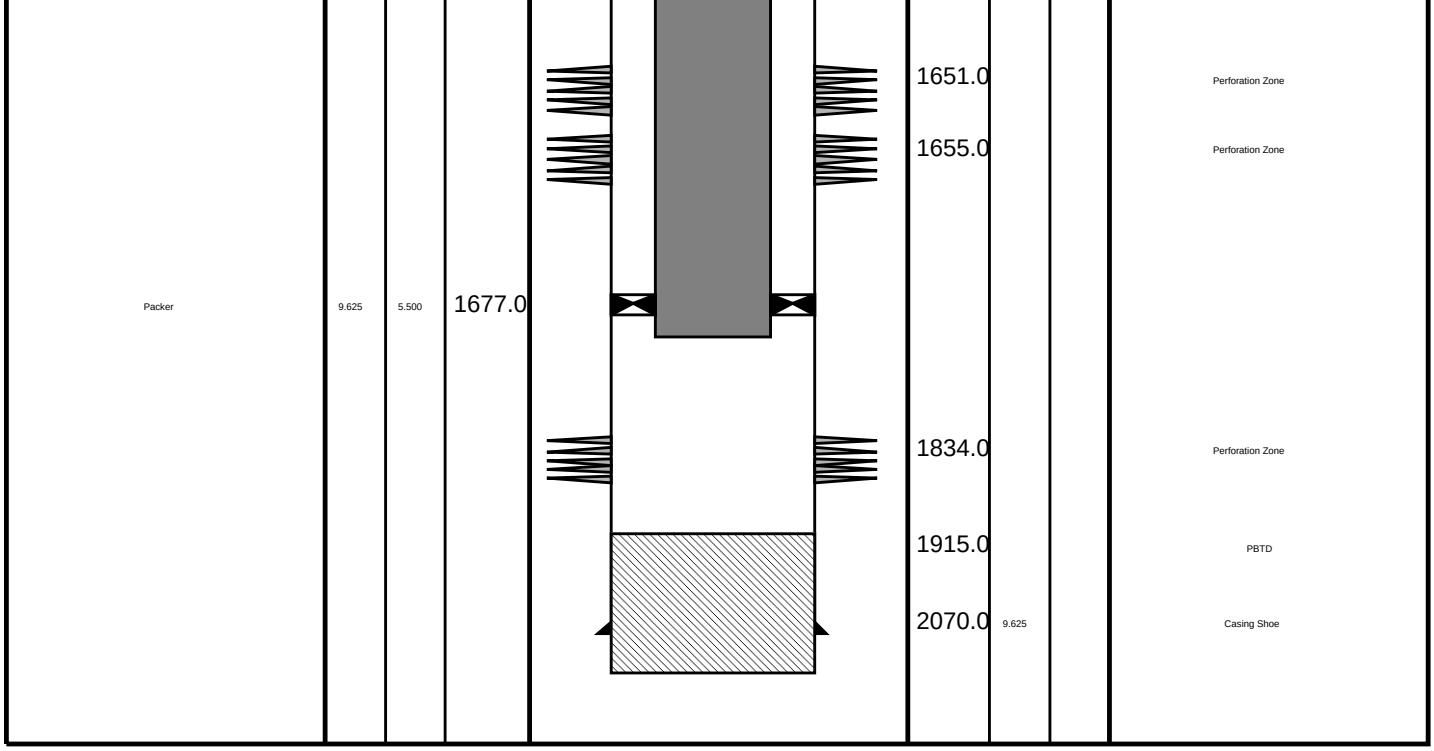
PSPT−B
PSC−A 806
PSPT−B 827
PSTC 806
PBMS−B 827
CQG_F_Mano 827
RTD_Thermometer 827
GR 827
CCL 827
PBMS 827

RST−C
RSCH−A 45
RSC−C 57
RSS−A 45
RSXH−A 63
RSX−C 59



MAXIMUM STRING DIAMETER 1.72 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS





Schlumberger

Job Events Summary

MAXIS Field Log

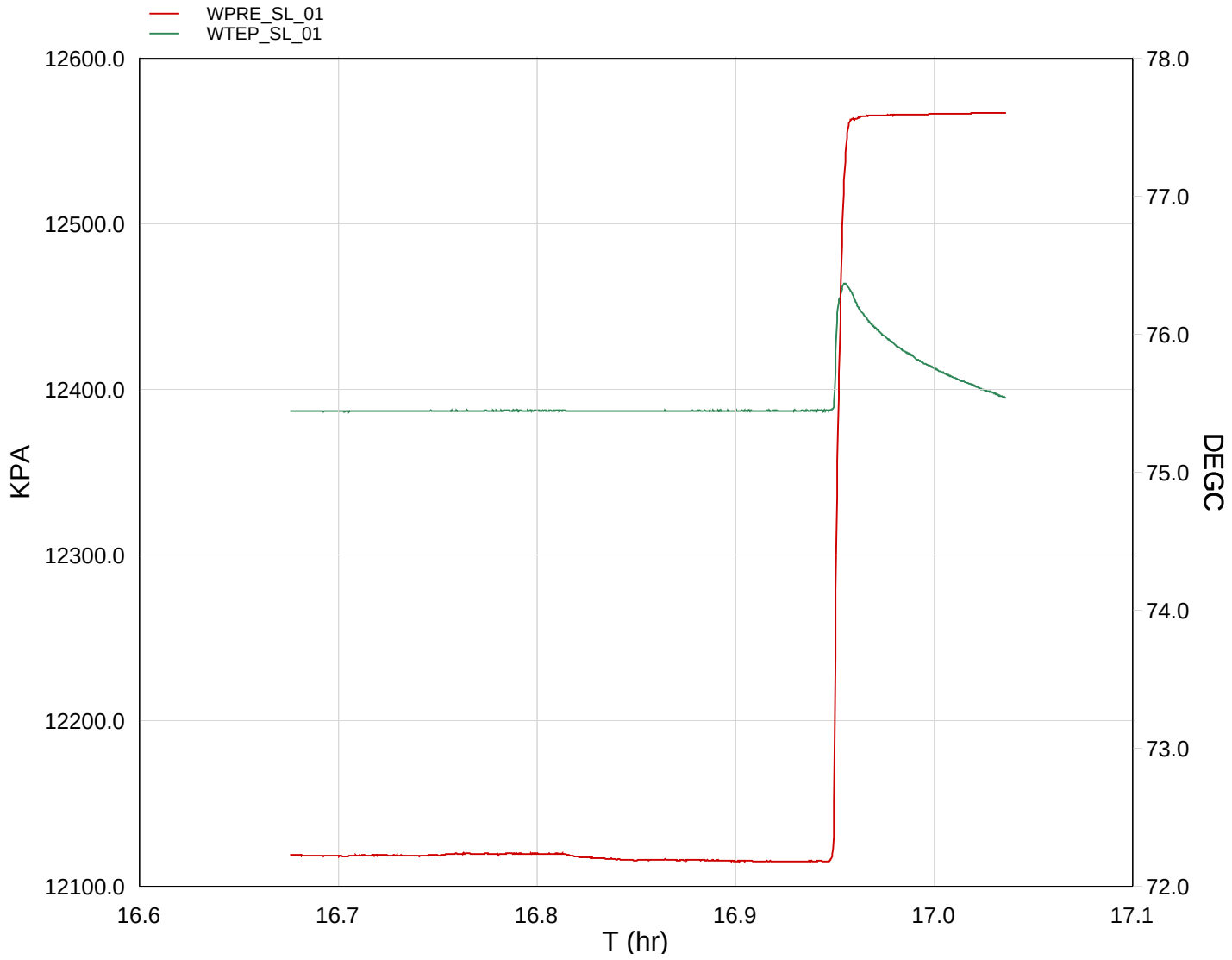
Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)			File
Simulated Log	9−Nov−2006	9:54	000:31			RST_PSP_011LUP
Log Pass (down)	9−Nov−2006	10:39	000:28	1.7 −	1671.5	RST_PSP_012LDP
Log Pass (up)	9−Nov−2006	11:08	000:03	1670.9 −	1641.2	RST_PSP_013LUP
Station Log	9−Nov−2006	11:15	000:19	1630.1 −	2.8	RST_PSP_014LTP
Station Log	9−Nov−2006	11:38	000:15	1604.5 −	2.3	RST_PSP_015LTP
Station Log	9−Nov−2006	11:58	000:11	1579.5 −	1.7	RST_PSP_016LTP
Station Log	9−Nov−2006	12:13	000:11	1554.5 −	1.7	RST_PSP_017LTP
Log Pass (down)	9−Nov−2006	12:26	000:03	1586.9 −	1905.0	RST_PSP_018LDP
Log Pass (up)	9−Nov−2006	12:32	000:05	1909.1 −	1884.1	RST_PSP_019LUP
Log Pass (up)	9−Nov−2006	12:39	001:00	1914.6 −	1627.9	RST_PSP_020LUP
Log Pass (up)	9−Nov−2006	13:48	001:02	1911.7 −	1627.6	RST_PSP_024LUP
Station Log	9−Nov−2006	15:02	001:36	1633.0 −	14.6	RST_PSP_026LTP
Station Log	9−Nov−2006	16:40	000:22	1630.0 −	3.3	RST_PSP_027LTP

Schlumberger

Flowing Pressure−Temperature
1625m MDKB

MAXIS Field Log



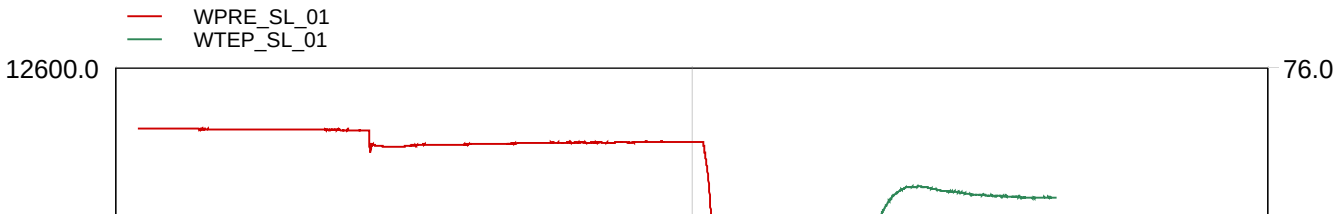
TIME	WTEP_SL	WPRE_SL
19680.0	167.7971	1757.7303
19710.0	167.7987	1757.6625
19740.0	167.7971	1757.6524
19770.0	167.7957	1757.6082
19800.0	167.7971	1757.6621
19830.0	167.7982	1757.6653
19860.0	167.7976	1757.6805

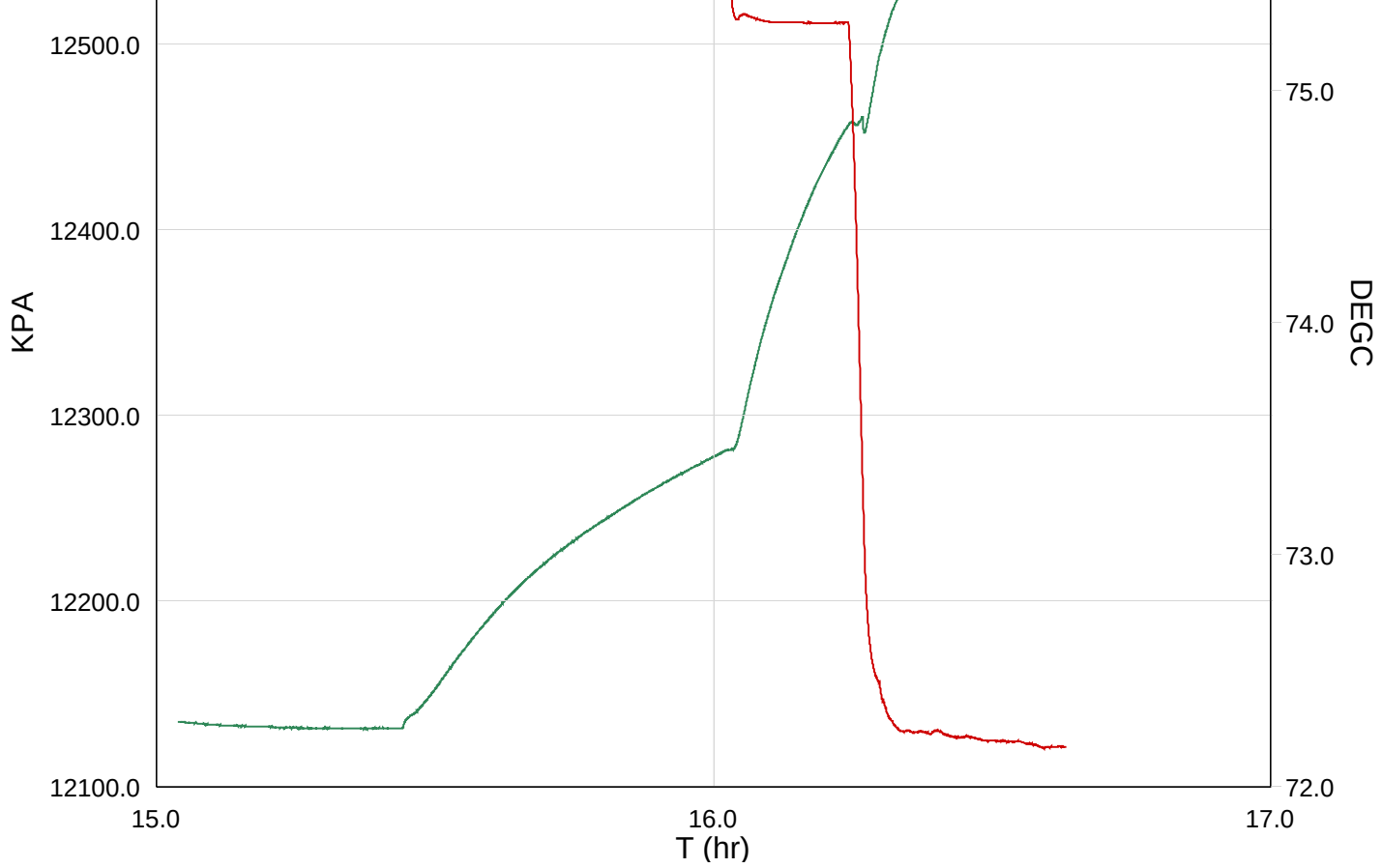
19890.0	167.7982	1757.6573
19920.0	167.7982	1757.6173
19950.0	167.8013	1757.7233
19980.0	167.8051	1757.7843
20010.0	167.8014	1757.8377
20040.0	167.8052	1757.8249
20070.0	167.8038	1757.7772
20100.0	167.8051	1757.7962
20130.0	167.8059	1757.8222
20160.0	167.8064	1757.8030
20190.0	167.8024	1757.7232
20220.0	167.8006	1757.4992
20250.0	167.7972	1757.4172
20280.0	167.7960	1757.3033
20310.0	167.7964	1757.2375
20340.0	167.7996	1757.2707
20370.0	167.8017	1757.3082
20400.0	167.8016	1757.2517
20430.0	167.8056	1757.2547
20460.0	167.8022	1757.2330
20490.0	167.8022	1757.1729
20520.0	167.8043	1757.1867
20550.0	167.8031	1757.1523
20580.0	167.8030	1757.1244
20610.0	167.8032	1757.1243
20640.0	167.8034	1757.1197
20670.0	167.8222	1757.7123
20700.0	169.4086	1821.7027
20730.0	169.0317	1822.4268
20760.0	168.8011	1822.4923
20790.0	168.6348	1822.5249
20820.0	168.4906	1822.5509
20850.0	168.3781	1822.5885
20880.0	168.2686	1822.6116
20910.0	168.1794	1822.6425
20940.0	168.0872	1822.6661
20970.0	168.0085	1822.6820

Schlumberger

Flowing Pressure−Temperature @ 1622.6m MDKB (1210.4m TVD)

MAXIS Field Log





TIME	WTEP_SL	WPRE_SL
13800.0	162.1044	1822.9308
13830.0	162.1019	1822.9254
13860.0	162.0973	1822.9225
13890.0	162.0960	1822.9109
13920.0	162.0930	1822.9092
13950.0	162.0875	1822.9054
13980.0	162.0849	1822.8979
14010.0	162.0831	1822.8963
14040.0	162.0815	1822.8887
14070.0	162.0763	1822.8820
14100.0	162.0743	1822.8820
14130.0	162.0742	1822.8823
14160.0	162.0768	1822.8707
14190.0	162.0741	1822.8715
14220.0	162.0722	1822.8652
14250.0	162.0684	1822.8585
14280.0	162.0669	1822.8570
14310.0	162.0681	1822.8512
14340.0	162.0669	1822.8509
14370.0	162.0664	1822.8482
14400.0	162.0649	1822.8478
14430.0	162.0617	1822.8387
14460.0	162.0601	1822.8381
14490.0	162.0576	1822.8357
14520.0	162.0586	1822.8409
14550.0	162.0587	1822.8314
14580.0	162.0558	1822.8244
14610.0	162.0532	1822.8197
14640.0	162.0565	1822.8259

14670.0	162.0533	1822.8172
14700.0	162.0552	1822.8200
14730.0	162.0551	1822.8123
14760.0	162.0550	1822.8197
14790.0	162.0549	1822.8082
14820.0	162.0522	1822.8147
14850.0	162.0518	1822.8079
14880.0	162.0526	1822.8149
14910.0	162.0547	1822.8068
14940.0	162.0559	1822.8073
14970.0	162.0518	1822.8016
15000.0	162.0505	1822.8026
15030.0	162.0533	1822.7981
15060.0	162.0573	1822.7940
15090.0	162.0553	1822.7949
15120.0	162.0544	1822.7909
15150.0	162.0551	1822.7926
15180.0	162.0524	1822.7920
15210.0	162.0549	1822.7846
15240.0	162.0560	1821.7647
15270.0	162.1273	1821.6543
15300.0	162.1564	1821.5782
15330.0	162.1790	1821.5449
15360.0	162.2168	1821.5375
15390.0	162.2585	1821.5377
15420.0	162.3036	1821.5480
15450.0	162.3498	1821.5427
15480.0	162.4011	1821.6036
15510.0	162.4513	1821.6428
15540.0	162.5014	1821.6530
15570.0	162.5526	1821.6961
15600.0	162.6008	1821.6849
15630.0	162.6468	1821.6557
15660.0	162.6938	1821.6648
15690.0	162.7400	1821.6717
15720.0	162.7828	1821.6836
15750.0	162.8285	1821.6849
15780.0	162.8730	1821.6978
15810.0	162.9152	1821.6773
15840.0	162.9567	1821.7110
15870.0	162.9986	1821.7194
15900.0	163.0347	1821.7179
15930.0	163.0741	1821.7391
15960.0	163.1119	1821.7463
15990.0	163.1471	1821.7684
16020.0	163.1826	1821.7468
16050.0	163.2153	1821.7393
16080.0	163.2501	1821.7697
16110.0	163.2812	1821.7838
16140.0	163.3118	1821.7806
16170.0	163.3421	1821.7872
16200.0	163.3708	1821.8071
16230.0	163.3992	1821.8063
16260.0	163.4282	1821.7975
16290.0	163.4576	1821.8332
16320.0	163.4837	1821.8382
16350.0	163.5101	1821.8358
16380.0	163.5353	1821.8488
16410.0	163.5599	1821.8308
16440.0	163.5840	1821.8397
16470.0	163.6088	1821.8403

16500.0	163.6321	1821.8564
16530.0	163.6572	1821.8679
16560.0	163.6815	1821.8550
16590.0	163.7021	1821.8563
16620.0	163.7275	1821.8424
16650.0	163.7502	1821.8497
16680.0	163.7738	1821.8617
16710.0	163.7960	1821.8418
16740.0	163.8180	1821.8435
16770.0	163.8408	1821.8521
16800.0	163.8641	1821.8943
16830.0	163.8835	1821.8810
16860.0	163.9085	1821.8649
16890.0	163.9259	1821.8649
16920.0	163.9474	1821.8865
16950.0	163.9684	1821.8950
16980.0	163.9892	1821.8766
17010.0	164.0070	1821.8949
17040.0	164.0278	1821.9064
17070.0	164.0449	1821.9125
17100.0	164.0658	1821.9116
17130.0	164.0835	1821.8990
17160.0	164.1032	1821.8998
17190.0	164.1212	1821.8765
17220.0	164.1396	1821.8773
17250.0	164.1575	1821.8959
17280.0	164.1758	1821.8908
17310.0	164.1978	1821.8726
17340.0	164.2118	1820.7371
17370.0	164.2178	1817.1092
17400.0	164.2522	1814.9666
17430.0	164.3832	1815.2442
17460.0	164.5483	1815.3328
17490.0	164.7122	1815.1511
17520.0	164.8650	1815.0167
17550.0	165.0092	1814.9115
17580.0	165.1445	1814.8118
17610.0	165.2699	1814.7558
17640.0	165.3894	1814.7131
17670.0	165.4972	1814.6996
17700.0	165.6014	1814.7031
17730.0	165.7019	1814.6941
17760.0	165.8062	1814.6870
17790.0	165.9039	1814.6846
17820.0	165.9968	1814.6852
17850.0	166.0872	1814.6645
17880.0	166.1736	1814.6763
17910.0	166.2550	1814.6658
17940.0	166.3294	1814.6483
17970.0	166.4043	1814.6479
18000.0	166.4729	1814.6676
18030.0	166.5397	1814.6672
18060.0	166.6075	1814.6720
18090.0	166.6670	1814.6874
18120.0	166.7239	1814.6888
18150.0	166.7589	1808.4388
18180.0	166.7338	1796.9249
18210.0	166.7856	1782.7240
18240.0	166.7082	1770.2742
18270.0	166.9023	1765.5823
18300.0	167.1091	1763.7069

18330.0	167.2886	1762.7985
18360.0	167.4323	1761.3849
18390.0	167.5498	1760.3646
18420.0	167.6487	1759.8166
18450.0	167.7298	1759.4127
18480.0	167.7915	1759.2890
18510.0	167.8392	1759.3632
18540.0	167.8700	1759.2359
18570.0	167.8927	1759.2253
18600.0	167.9048	1759.2780
18630.0	167.9091	1759.2439
18660.0	167.9096	1759.0993
18690.0	167.9105	1759.3164
18720.0	167.9081	1759.2544
18750.0	167.8971	1759.0402
18780.0	167.8927	1758.9539
18810.0	167.8833	1758.8684
18840.0	167.8790	1758.8202
18870.0	167.8726	1758.8449
18900.0	167.8680	1758.8815
18930.0	167.8657	1758.8047
18960.0	167.8593	1758.7225
18990.0	167.8553	1758.6139
19020.0	167.8515	1758.5623
19050.0	167.8496	1758.5622
19080.0	167.8451	1758.5684
19110.0	167.8457	1758.5692
19140.0	167.8452	1758.5359
19170.0	167.8402	1758.4986
19200.0	167.8381	1758.4580
19230.0	167.8343	1758.5033
19260.0	167.8341	1758.4104
19290.0	167.8320	1758.3643
19320.0	167.8282	1758.2621
19350.0	167.8268	1758.1486
19380.0	167.8271	1758.0191
19410.0	167.8283	1758.0658
19440.0	167.8293	1758.1003
19470.0	167.8305	1758.0968
19500.0	167.8310	1758.1090
19530.0	167.8284	1758.0581

Schlumberger

RST−C Sigma
Pass # 2

MAXIS Field Log

Company: Esso Australia Pty Ltd. **Well: A−13**

Input DLIS Files

DEFAULT	**RST_PSP_024LUP**	**FN:22**	**PRODUCER**	**09−Nov−2006 13:48**	**1911.7 M**	**1627.6 M**

Output DLIS Files

Output DLIS Files

DEFAULT | RST_PSP_025PUP | FN:23 | PRODUCER | 09−Nov−2006 14:58 | 1912.5 M | 1623.4 M

OP System Version: 14C0−302

MCM

RST−C 14C0−302 PSPT−B 14C0−302

PIP SUMMARY

Time Mark Every 60 S

RST Sigma (SIGM)
60 (CU) 0

RST Weighted Inelastic Ratio (WINR_RST)
0.4 (−−−− 0

RST Porosity (TPHI)
0.6 (V/V) 0

RST Far Effective Capture CR (RSCF_RST)
45 (−−−− 0

RST Sigma Borehole Fluid (SIBF)
100 (CU) 0

RST Near Effective Capture CR (RSCN_RST)
45 (−−−− 0

Sigma Borehole Far Apparent (SBFA_FIL)
150 (CU) 0

Tension (TENS)
0 (LBF) 3000

RST Capture to Inelastic Ratio Far (CIRF_FIL)
5 (−−−− 0

RST Capture Ratio (TRAT_FIL)
1.5 (−−−− 0.5

Sigma Formation Far Apparent (SFFA_FIL)
60 (CU) 0

RST Capture to Inelastic Ratio Near (CIRN_FIL)
2.5 (−−−− 0

Minitron Arc Detection (MARC)
0 (−−−− 5

RST Sigma Difference (DSIG)
−30 (CU) 30

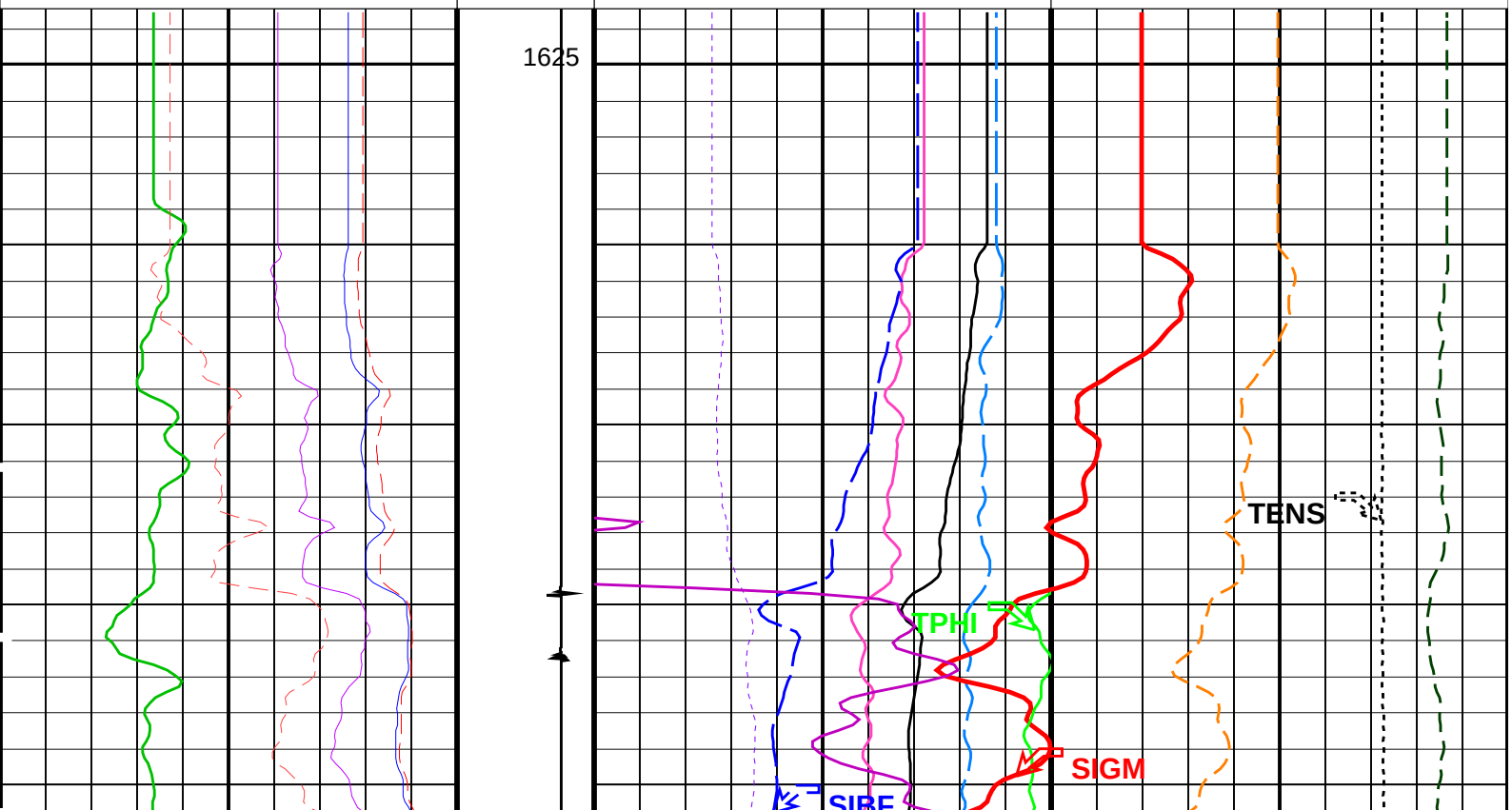
MCS Far Background (filtered) (FBAC)
0 (CPS) 5000

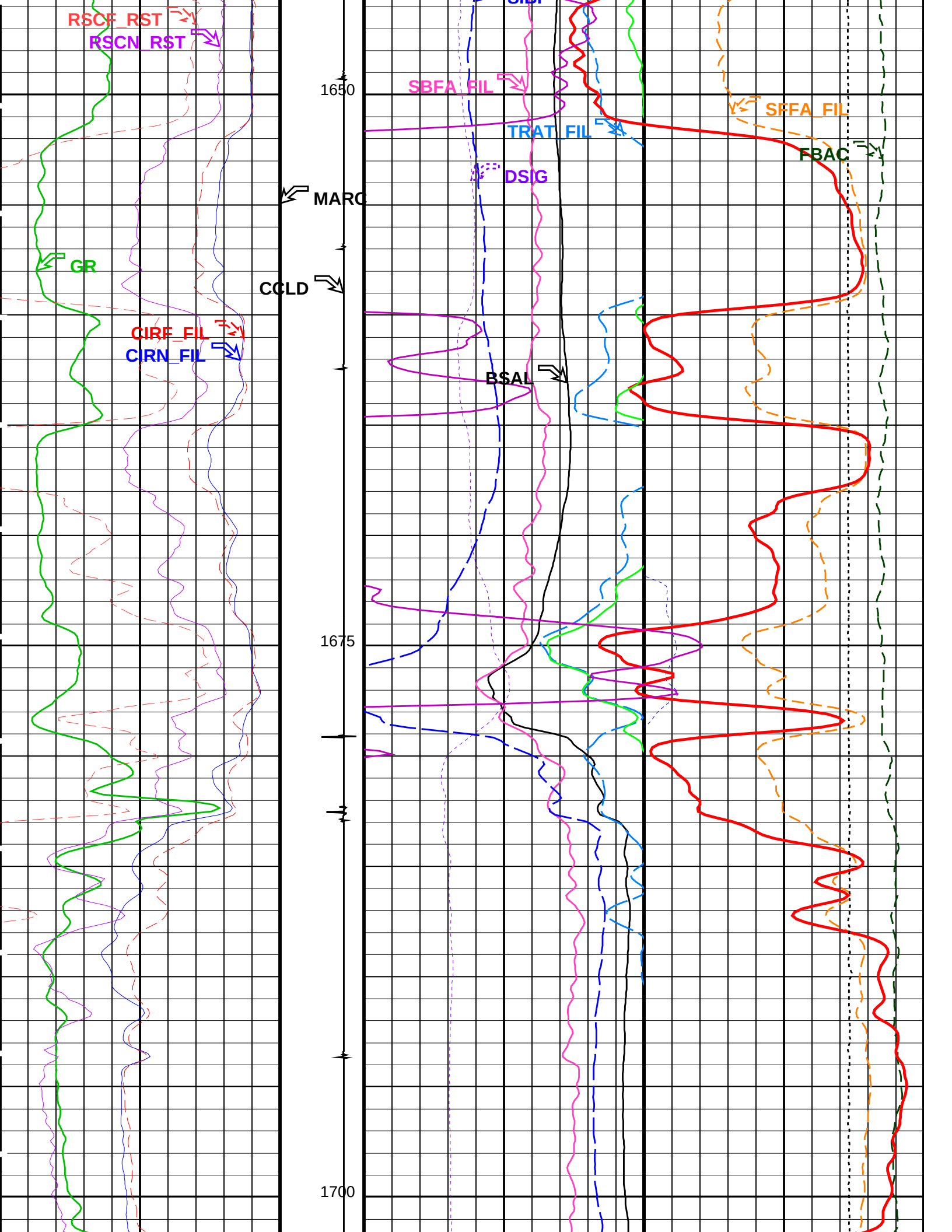
Gamma Ray (GR)
0 (GAPI) 150

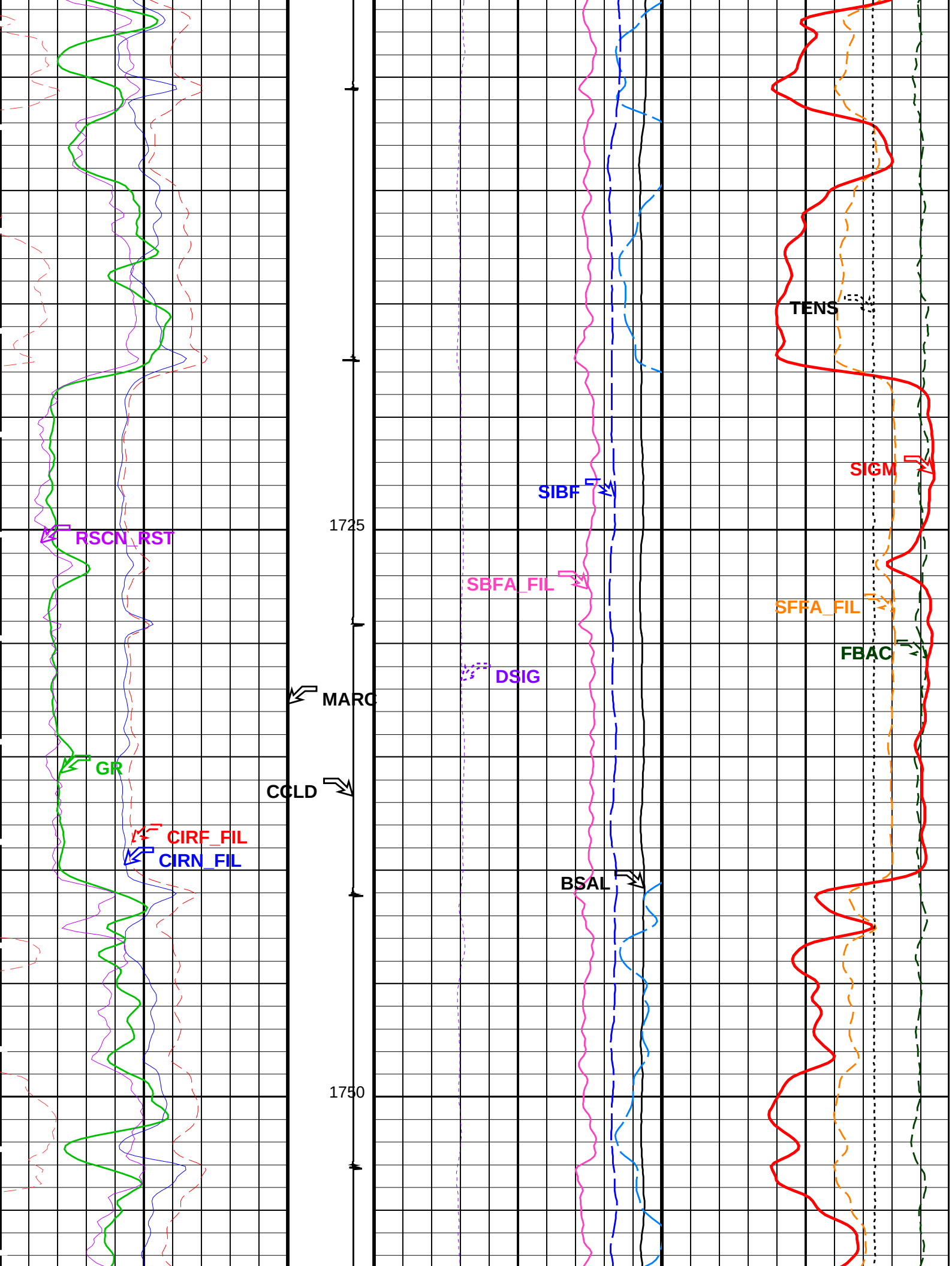
Discriminated CCL (CCLD)
3 (V) −1

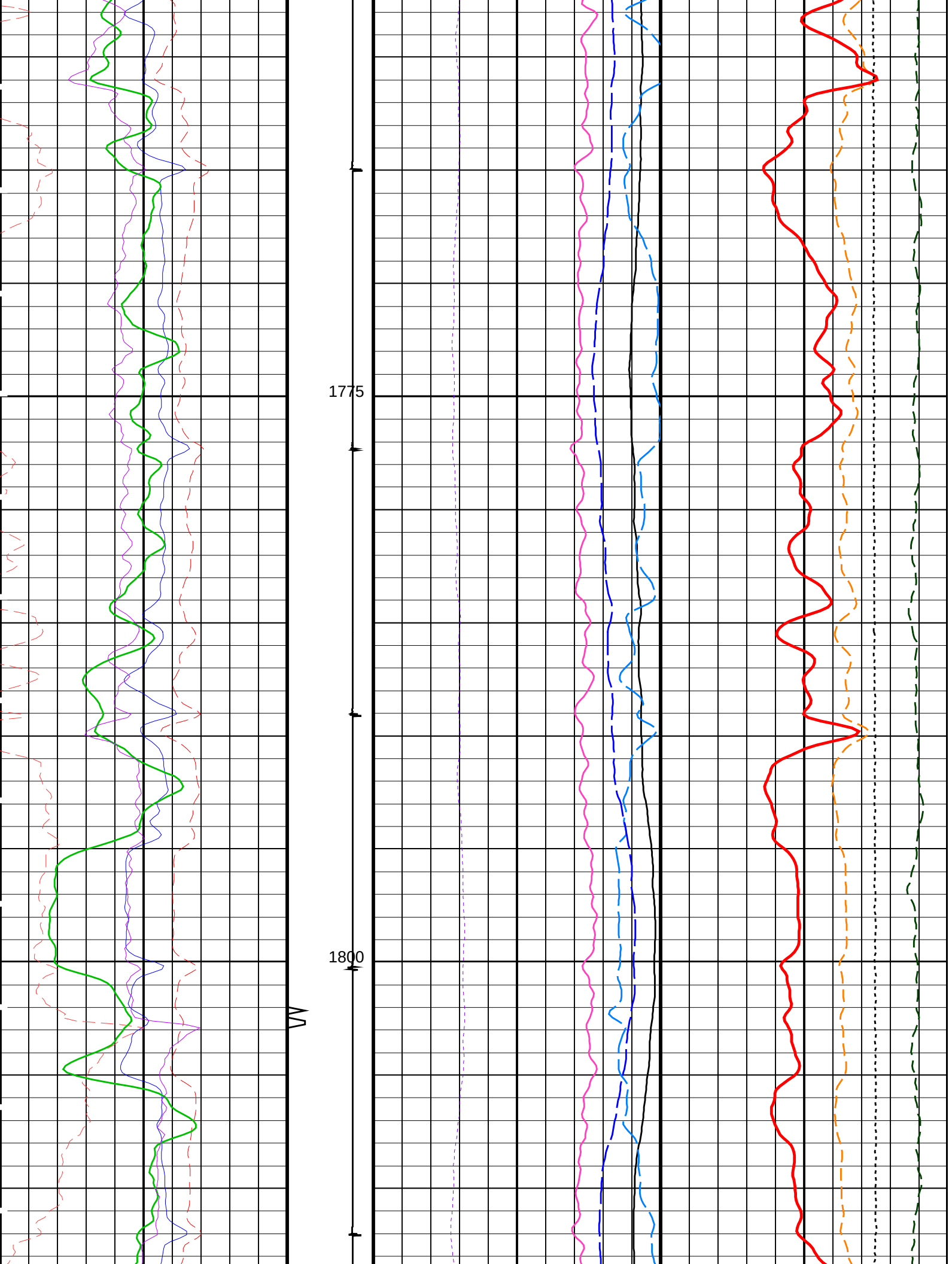
RST Borehole Salinity (BSAL)
450 (PPK) −50

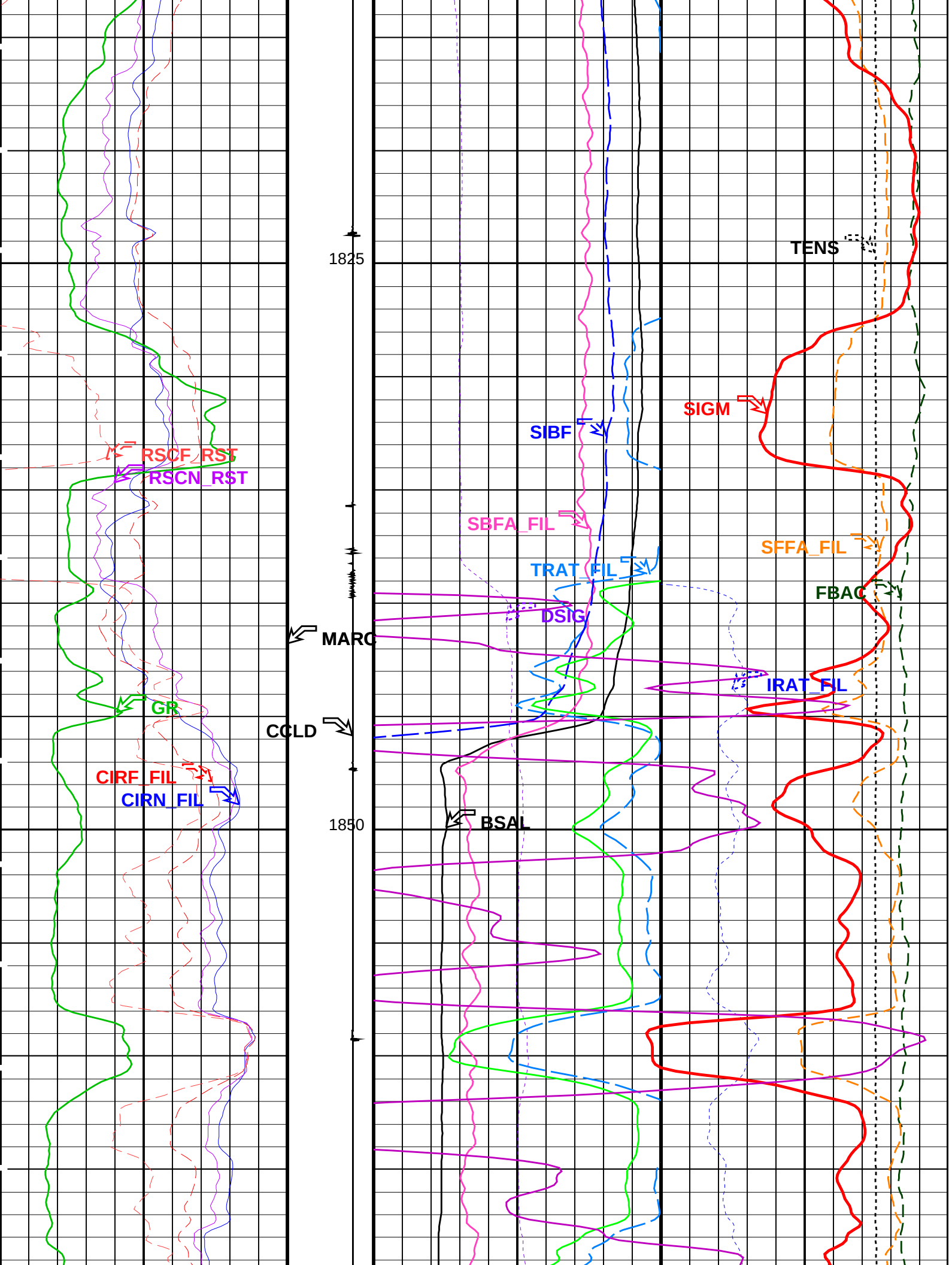
RST Inelastic Ratio (IRAT_FIL)
0.75 (−−−− 0

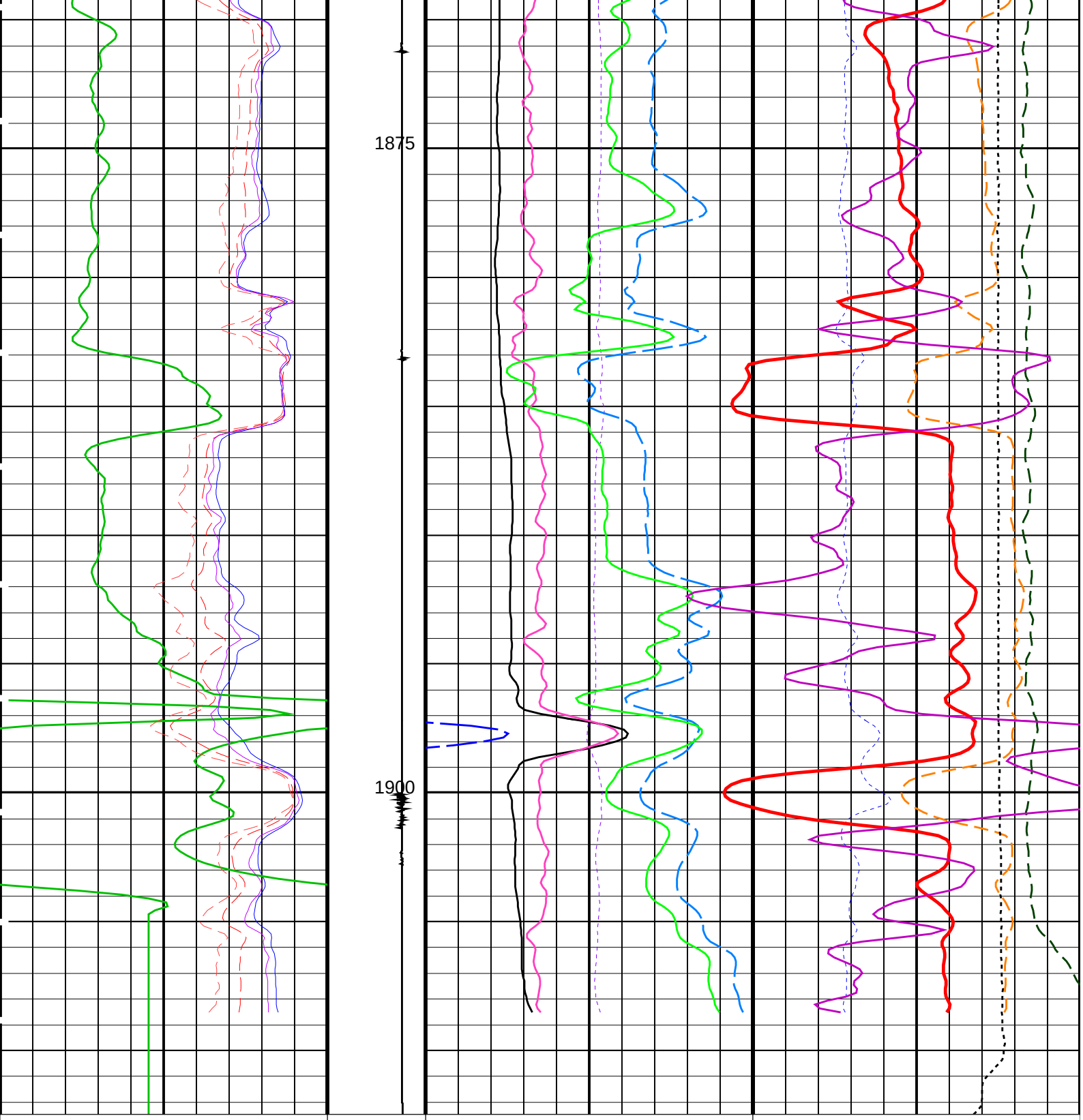



RSCF_RST
RSCN_RST
SBFA_FIL
SFFA_FIL
TRAT_FIL
FBAC
DSIG
MARC
GR
CCLD
CIRF_FIL
CIRN_FIL
BSAL
1650
1675
1700


TENS
SIGM
SIBF
RSCN_RST
1725
SBFA_FIL
SFFA_FIL
FBAC
DSIG
MARC
GR
CCLD
CIRF_FIL
CIRN_FIL
BSAL
1750


1775
1800


1825
1850
TENS
SIGM
SIBF
SBFA_FIL
SFFA_FIL
TRAT_FIL
FBAC
DSIG
MARC
IRAT_FIL
CCLD
BSAL
RSCF_RST
RSCN_RST
GR
CIRF_FIL
CIRN_FIL



Gamma Ray (GR) 0 (GAPI) 150	Discriminated CCL (CCLD) 3 (V) −1	RST Borehole Salinity (BSAL) 450 (PPK) −50	RST Inelastic Ratio (IRAT_FIL) 0.75 (---- 0
RST Capture to Inelastic Ratio Near (CIRN_FIL) 2.5 (---- 0	Minitron Arc Detection (MARC) 0 (---- 5	RST Sigma Difference (DSIG) −30 (CU) 30	MCS Far Background (filtered) (FBAC) 0 (CPS) 5000
RST Capture to Inelastic Ratio Far (CIRF_FIL) 5 (---- 0		RST Capture Ratio (TRAT_FIL) 1.5 (---- 0.5	Sigma Formation Far Apparent (SFFA_FIL) 60 (CU) 0
RST Near Effective Capture CR (RSCN_		Sigma Borehole Far Apparent (SBFA_	Tension (TENS)

RST)

45 (----- 0

RST Far Effective Capture CR (RSCF_RST)

45 (----- 0

FIL)

150 (CU) 0

RST Sigma Borehole Fluid (SIBF)

100 (CU) 0

RST Porosity (TPHI)

0.6 (V/V) 0

Tension (TENS)

0 (LBF) 3000

RST Weighted Inelastic Ratio (WINR_RST)

0.4 (----- 0

RST Sigma (SIGM)

60 (CU) 0

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
RGAI	Near/Far Gain Calibration Ratio	1	
SMBMO	RST Sigma Mode Background Minitron Off	No	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
	PSPT-B: Production Services Logging Platform		
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
	System and Miscellaneous		
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	43.50	LB/F
DO	Depth Offset for Playback	0.8	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 09-Nov-2006 14:58

OP System Version: 14C0-302

MCM

RST-C	14C0-302	PSPT-B	14C0-302

Input DLIS Files

DEFAULT	RST_PSP_024LUP	FN:22	PRODUCER	09-Nov-2006 13:48	1911.7 M	1627.6 M

Output DLIS Files

DEFAULT	RST_PSP_025PUP	FN:23	PRODUCER	09-Nov-2006 14:58

Schlumberger

RST-C Sigma
Pass # 1

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A−13

Input DLIS Files

DEFAULT	RST_PSP_020LUP	FN:19	PRODUCER	09−Nov−2006 12:39	1914.6 M	1627.9 M

Output DLIS Files

DEFAULT	RST_PSP_023PUP	FN:21	PRODUCER	09−Nov−2006 13:44	1914.8 M	1623.1 M

OP System Version: 14C0−302

MCM

RST−C	14C0−302	PSPT−B	14C0−302

PIP SUMMARY

Time Mark Every 60 S

RST Sigma (SIGM)
60 (CU) 0

RST Weighted Inelastic Ratio (WINR_RST)
0.4 (−−−− 0

RST Porosity (TPHI)
0.6 (V/V) 0

RST Far Effective Capture CR (RSCF_RST)
45 (−−−− 0

RST Sigma Borehole Fluid (SIBF)
100 (CU) 0

RST Near Effective Capture CR (RSCN_RST)
45 (−−−− 0

Sigma Borehole Far Apparent (SBFA_FIL)
150 (CU) 0

Tension (TENS)
0 (LBF) 3000

RST Capture to Inelastic Ratio Far (CIRF_FIL)
5 (−−−− 0

RST Capture Ratio (TRAT_FIL)
1.5 (−−−− 0.5

Sigma Formation Far Apparent (SFFA_FIL)
60 (CU) 0

RST Capture to Inelastic Ratio Near (CIRN_FIL)
2.5 (−−−− 0

Minitron Arc Detection (MARC)
0 (−−−− 5

RST Sigma Difference (DSIG)
−30 (CU) 30

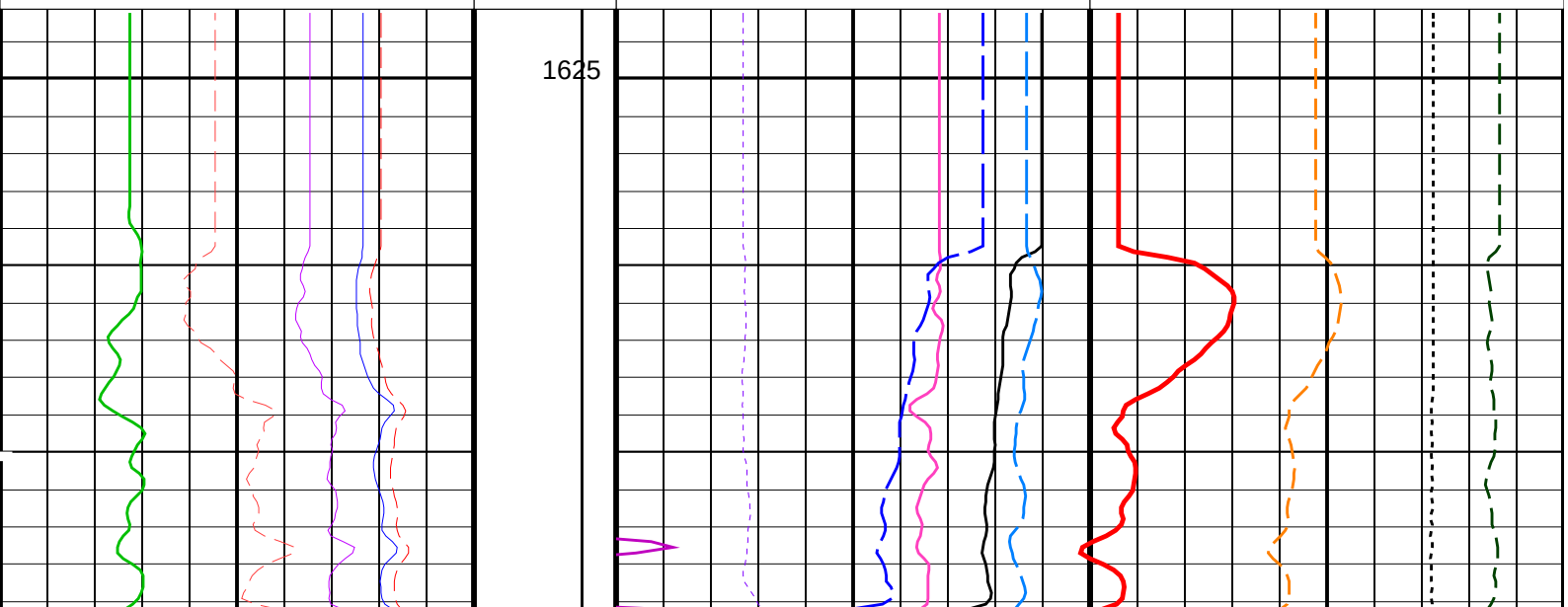
MCS Far Background (filtered) (FBAC)
0 (CPS) 5000

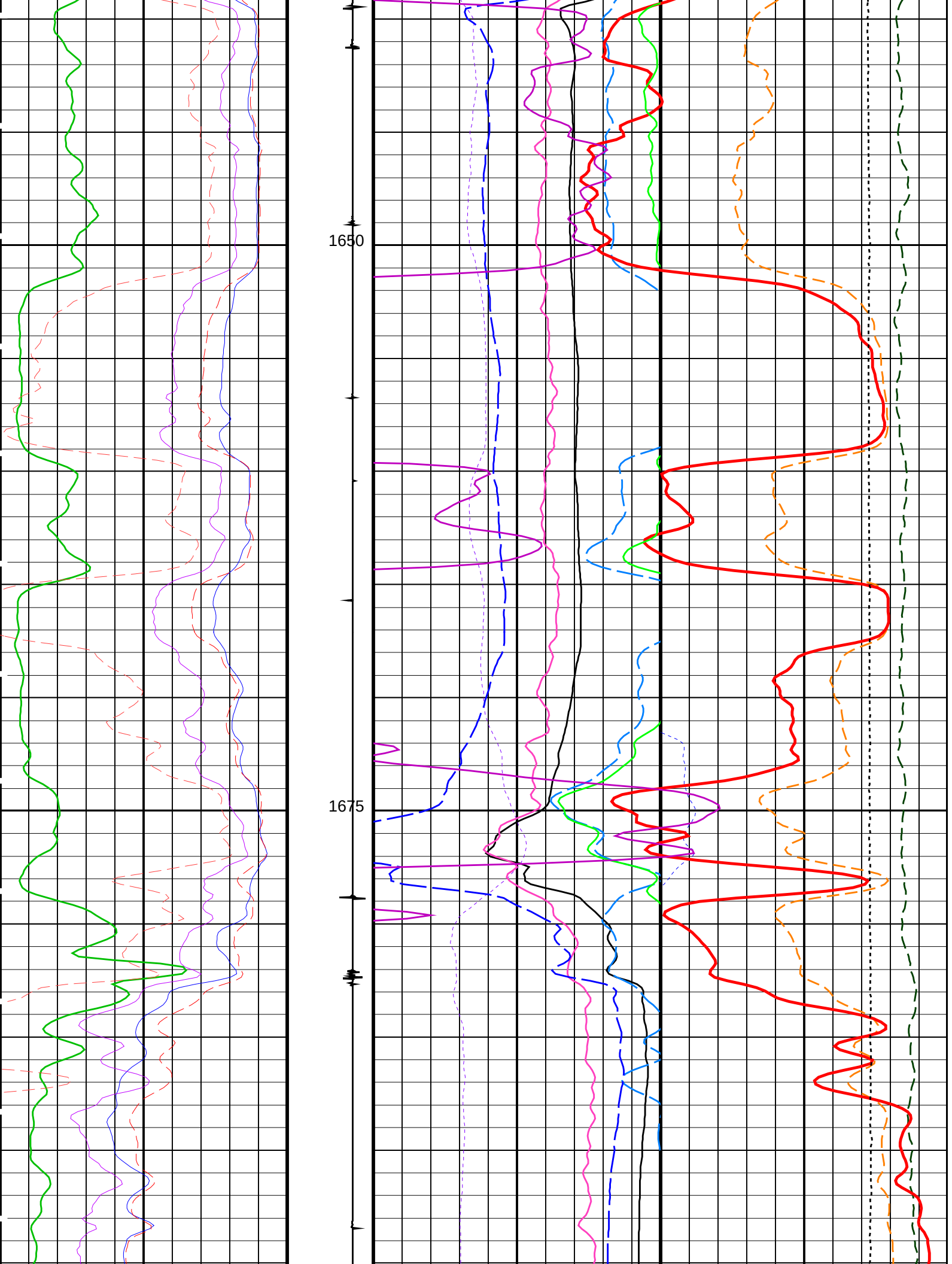
Gamma Ray (GR)
0 (GAPI) 150

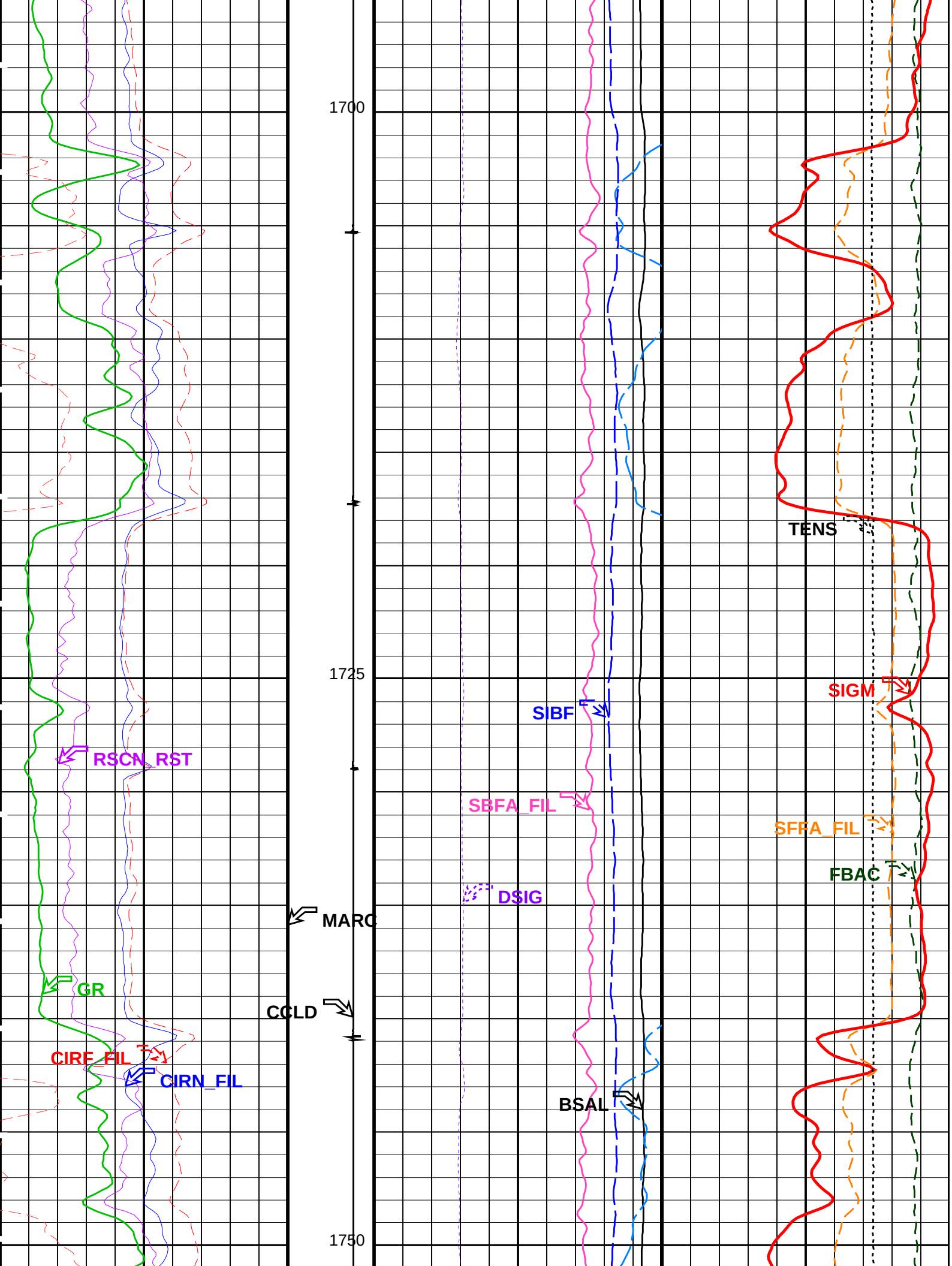
Discriminated CCL (CCLD)
3 (V) −1

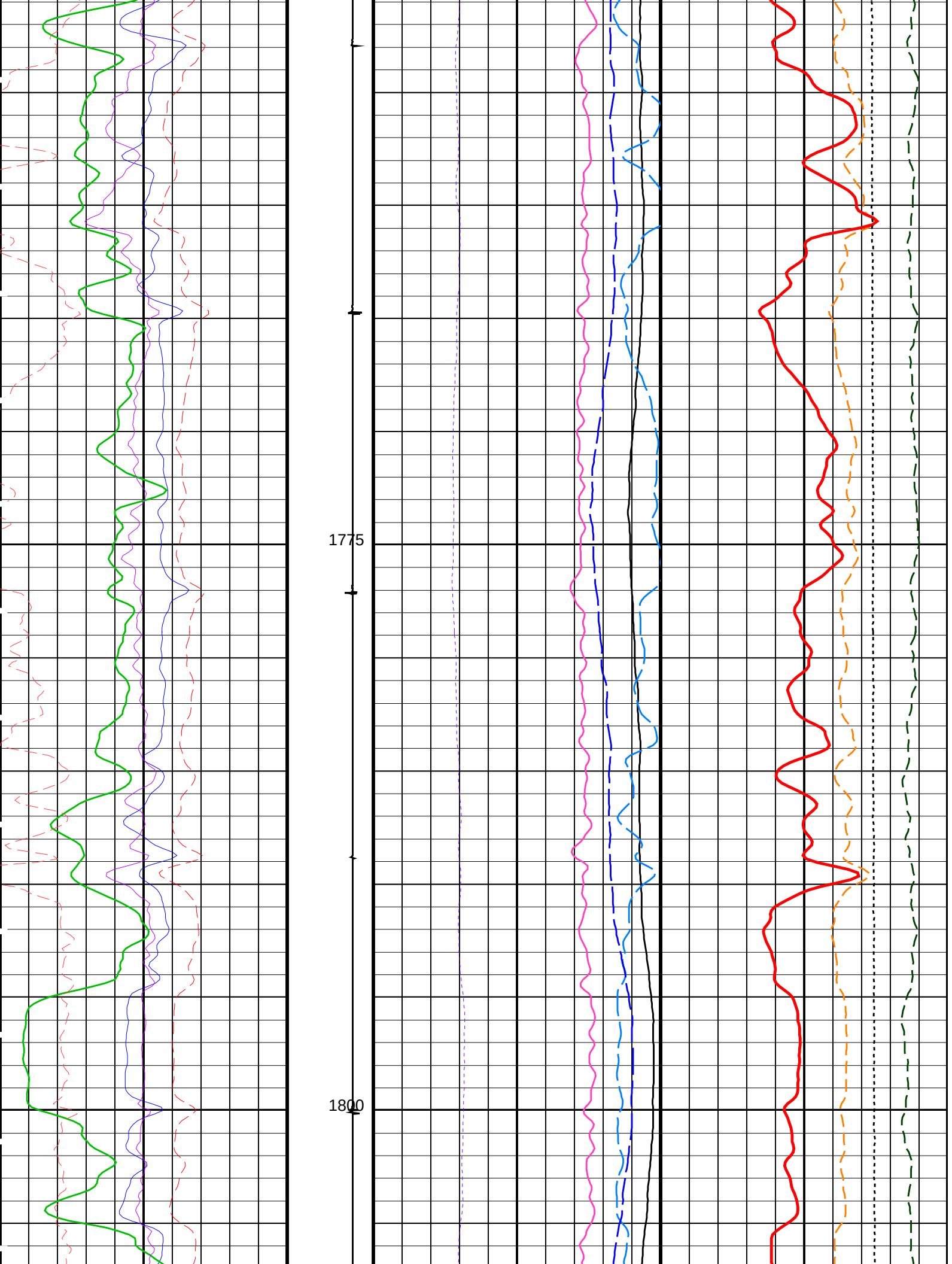
RST Borehole Salinity (BSAL)
450 (PPK) −50

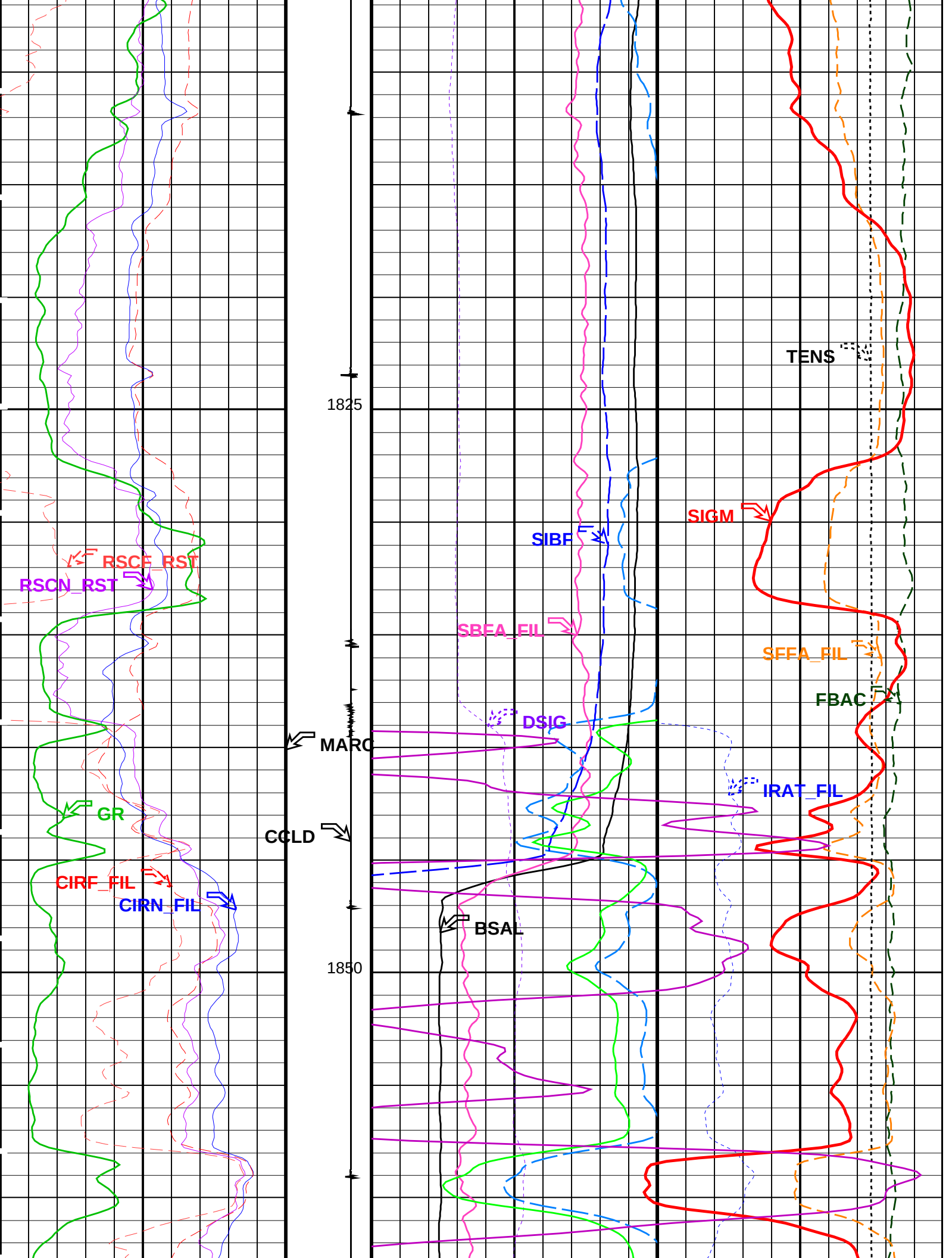
RST Inelastic Ratio (IRAT_FIL)
0.75 (−−−− 0

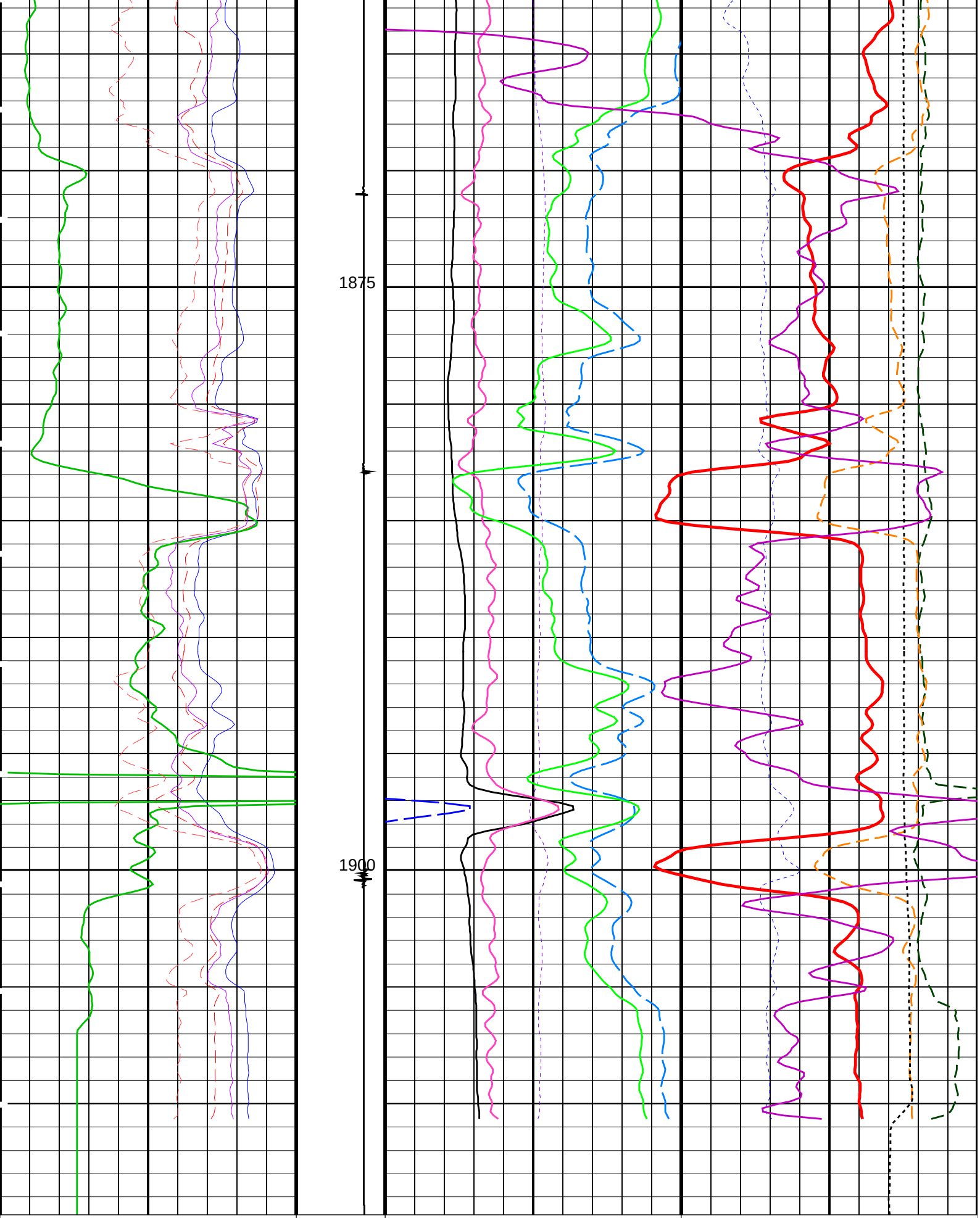



1650
1675

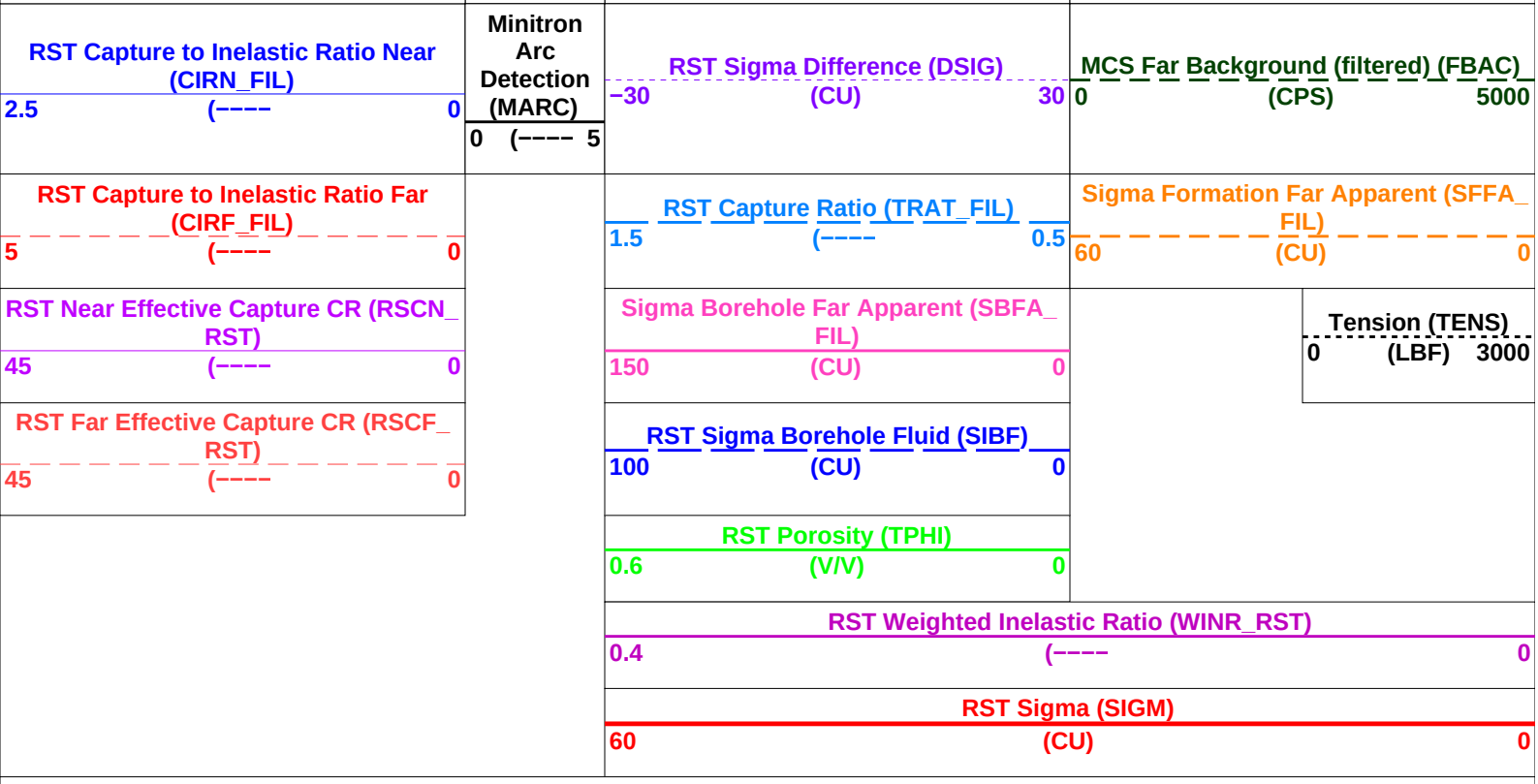

1700
1725
1750
TENS
SIGM
SIBF
RSCN_RST
SBFA_FIL
SFFA_FIL
FBAC
DSIG
MARC
GR
CCLD
CIRF_FIL
CIRN_FIL
BSAL


1775
1800


TENS
1825
SIGM
SIBF
RSCE_RST
RSCN_RST
SBFA_FIL
SFFA_FIL
FBAC
DSIG
MARC
IRAT_FIL
GR
CCLD
CIRF_FIL
CIRN_FIL
BSAL
1850



Gamma Ray (GR)	Discriminated CCL (CCLD)	RST Borehole Salinity (BSAL)	RST Inelastic Ratio (IRAT_FIL)
0 (GAPI) 150	3 (V) −1	450 (PPK) −50	0.75 (---- 0



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
RGAI	Near/Far Gain Calibration Ratio	1	
SMBMO	RST Sigma Mode Background Minitron Off	No	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
	PSPT-B: Production Services Logging Platform		
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
	System and Miscellaneous		
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	43.50	LB/F
DO	Depth Offset for Playback	0.2	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 09-Nov-2006 13:44

OP System Version: 14C0-302

MCM

RST-C	14C0-302	PSPT-B	14C0-302

Input DLIS Files

DEFAULT	RST_PSP_020LUP	FN:19	PRODUCER	09-Nov-2006 12:39	1914.6 M	1627.9 M

Output DLIS Files

DEFAULT	RST_PSP_023PUP	FN:21	PRODUCER	09-Nov-2006 13:44

Schlumberger

RST−C
Correlation Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_RST_PSP_021LUP		PRODUCER	09−Nov−2006 13:40	1905.0 M	1586.9 M

Output DLIS Files

DEFAULT	RST_PSP_022PUP	FN:20	PRODUCER	09−Nov−2006 13:42	1904.1 M	1581.0 M

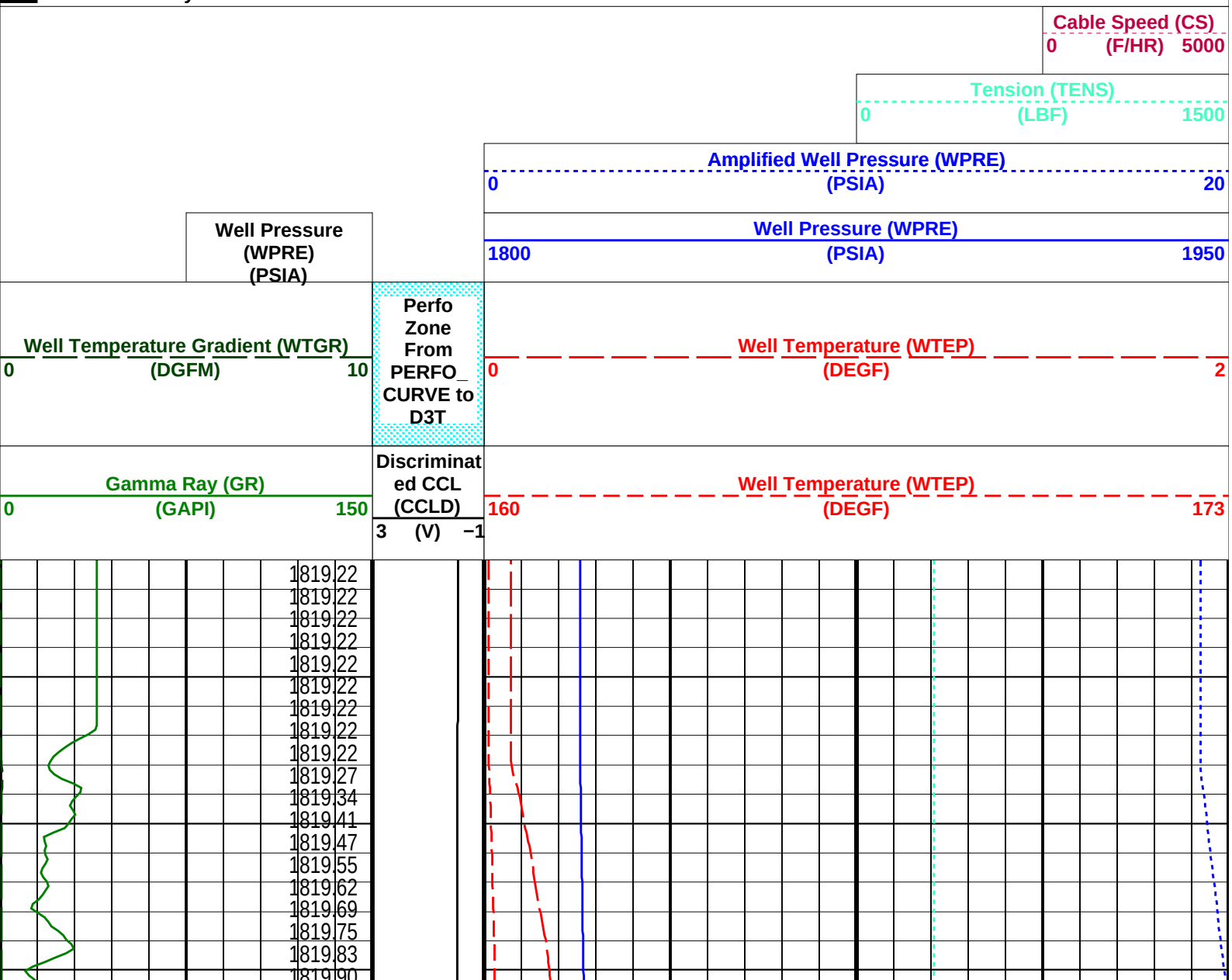
OP System Version: 14C0−302

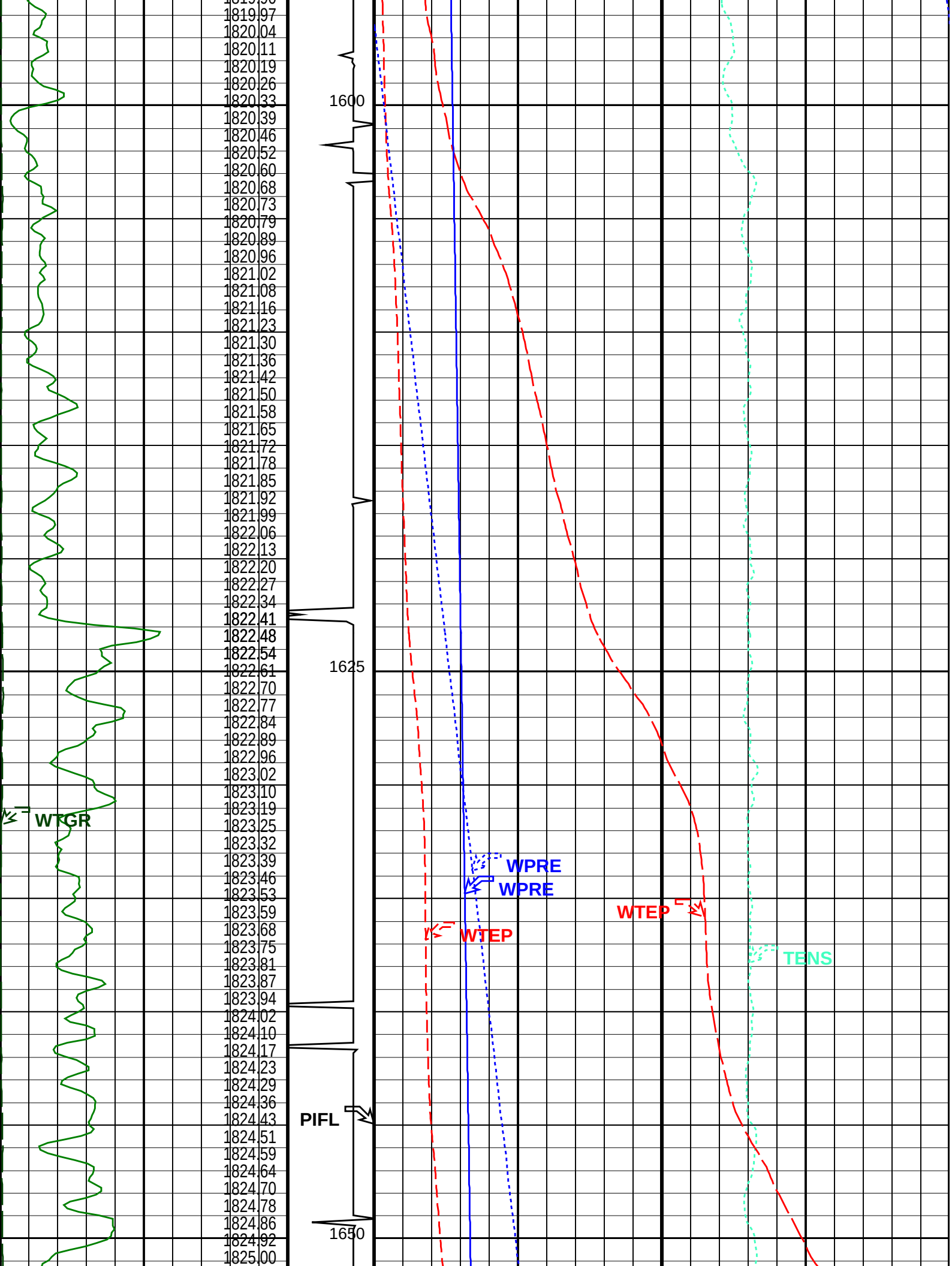
MCM

RST−C	14C0−302	PSPT−B	14C0−302

PIP SUMMARY

Time Mark Every 60 S

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1820.04
1820.11
1820.19
1820.26
1820.33
1600
1820.39
1820.46
1820.52
1820.60
1820.68
1820.73
1820.79
1820.89
1820.96
1821.02
1821.08
1821.16
1821.23
1821.30
1821.36
1821.42
1821.50
1821.58
1821.65
1821.72
1821.78
1821.85
1821.92
1821.99
1822.06
1822.13
1822.20
1822.27
1822.34
1822.41
1822.48
1822.54
1822.61
1625
1822.70
1822.77
1822.84
1822.89
1822.96
1823.02
1823.10
1823.19
1823.25
1823.32
1823.39
1823.46
1823.53
1823.59
1823.68
1823.75
1823.81
1823.87
1823.94
1824.02
1824.10
1824.17
1824.23
1824.29
1824.36
1824.43
1824.51
1824.59
1824.64
1824.70
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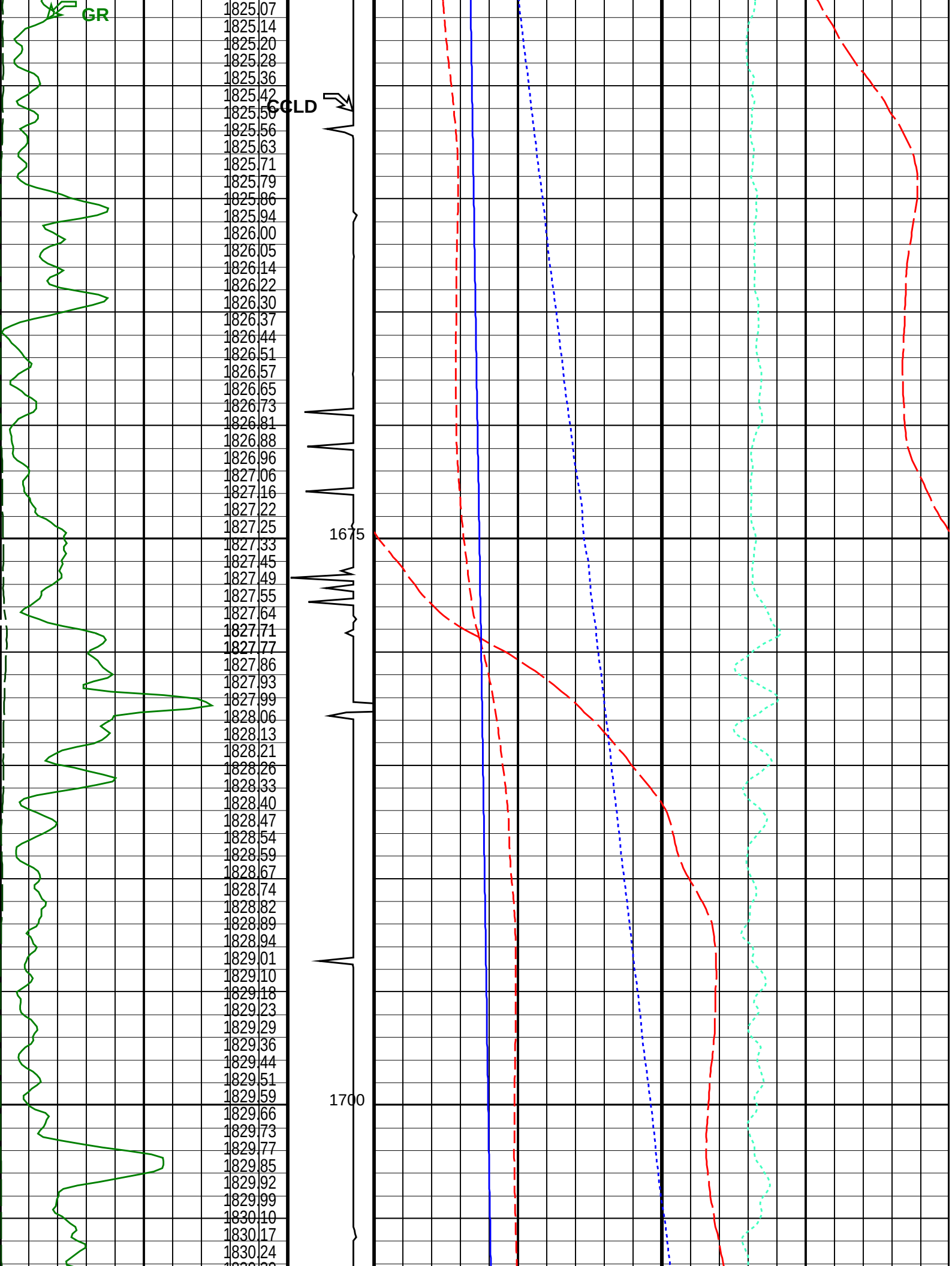
1824.92
1650
1825.00
WTGR
WPRE
WPRE
WTEP
WTEP
TENS
PIFL


GR
CCLD
1825.07
1825.14
1825.20
1825.28
1825.36
1825.42
1825.50
1825.56
1825.63
1825.71
1825.79
1825.86
1825.94
1826.00
1826.05
1826.14
1826.22
1826.30
1826.37
1826.44
1826.51
1826.57
1826.65
1826.73
1826.81
1826.88
1826.96
1827.06
1827.16
1827.22
1827.25
1675
1827.33
1827.45
1827.49
1827.55
1827.64
1827.71
1827.77
1827.86
1827.93
1827.99
1828.06
1828.13
1828.21
1828.26
1828.33
1828.40
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1828.54
1828.59
1828.67
1828.74
1828.82
1828.89
1828.94
1829.01
1829.10
1829.18
1829.23
1829.29
1829.36
1829.44
1829.51
1829.59
1700
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1829.77
1829.85
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1829.99
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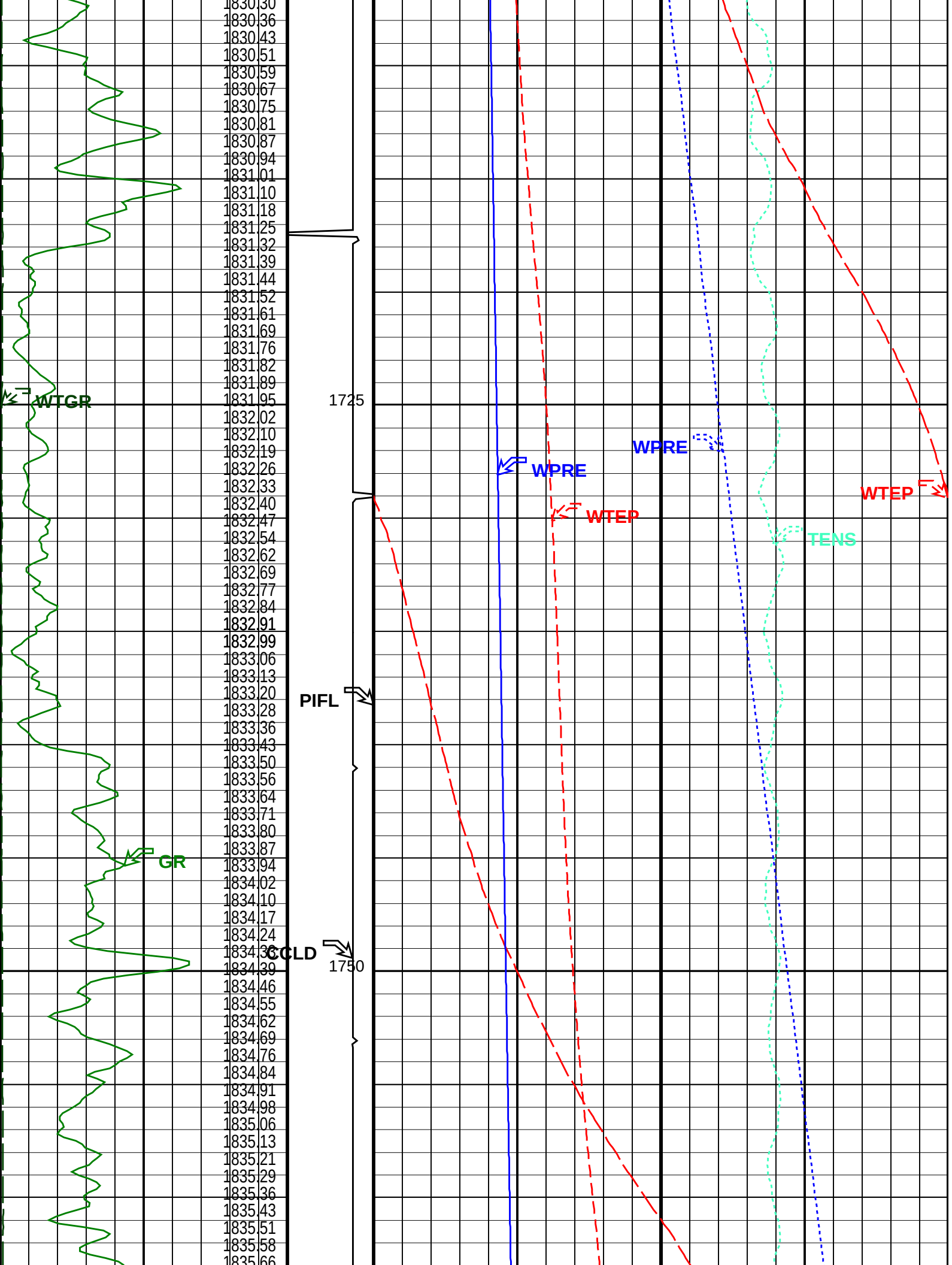
1830.17
1830.24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1830.59
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1830.75
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1830.87
1830.94
1831.01
1831.10
1831.18
1831.25
1831.32
1831.39
1831.44
1831.52
1831.61
1831.69
1831.76
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1832.19
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1835.43
1835.51
1835.58
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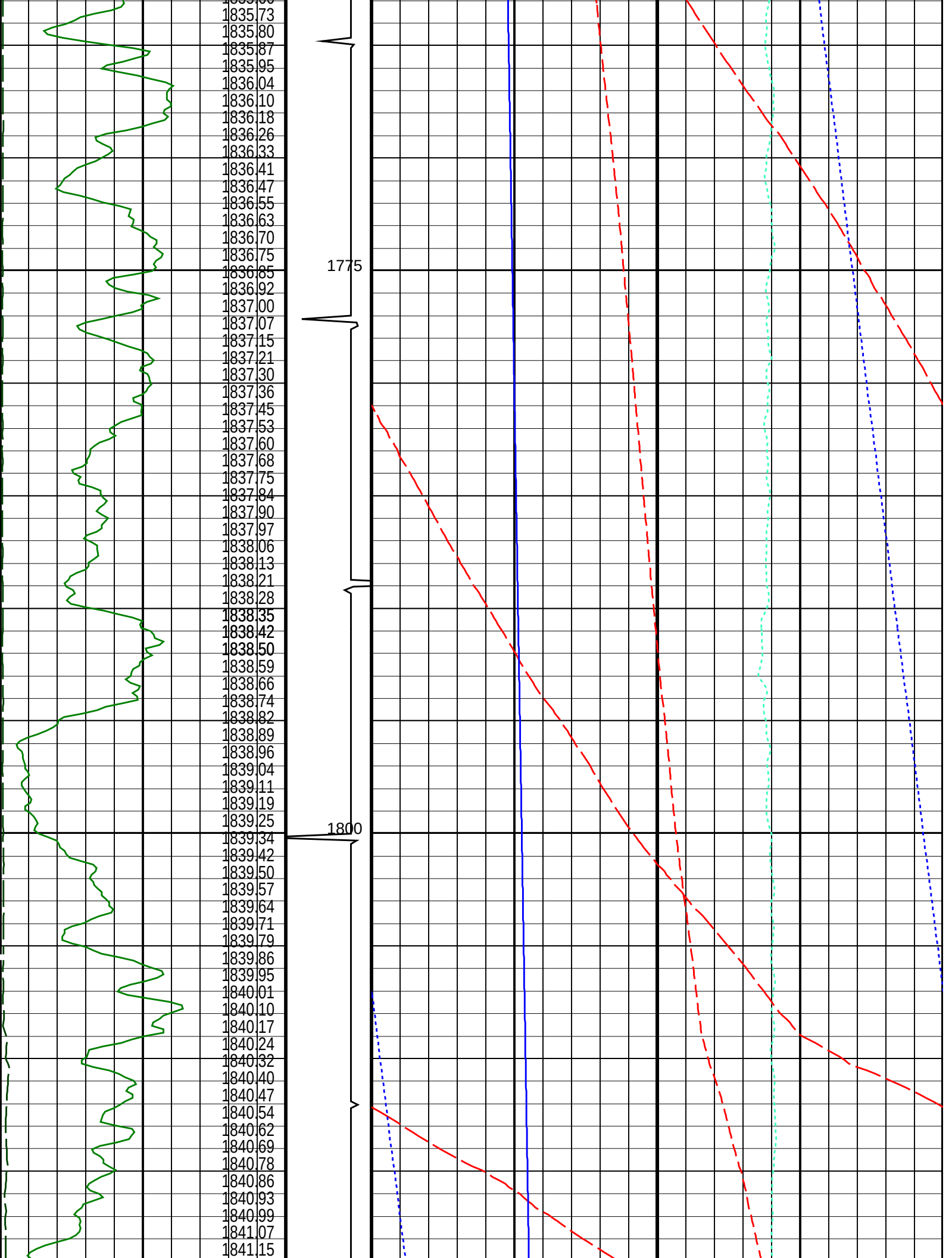
WTGR
1725
WPRE
WPRE
WTEP
WTEP
TENS
PIFL
GR
CCLD
1750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1836.41
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1836.55
1836.63
1836.70
1836.75
1775
1836.85
1836.92
1837.00
1837.07
1837.15
1837.21
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1837.36
1837.45
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1838.06
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1838.42
1838.50
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1838.82
1838.89
1838.96
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1839.11
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1839.25
1800
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1839.42
1839.50
1839.57
1839.64
1839.71
1839.79
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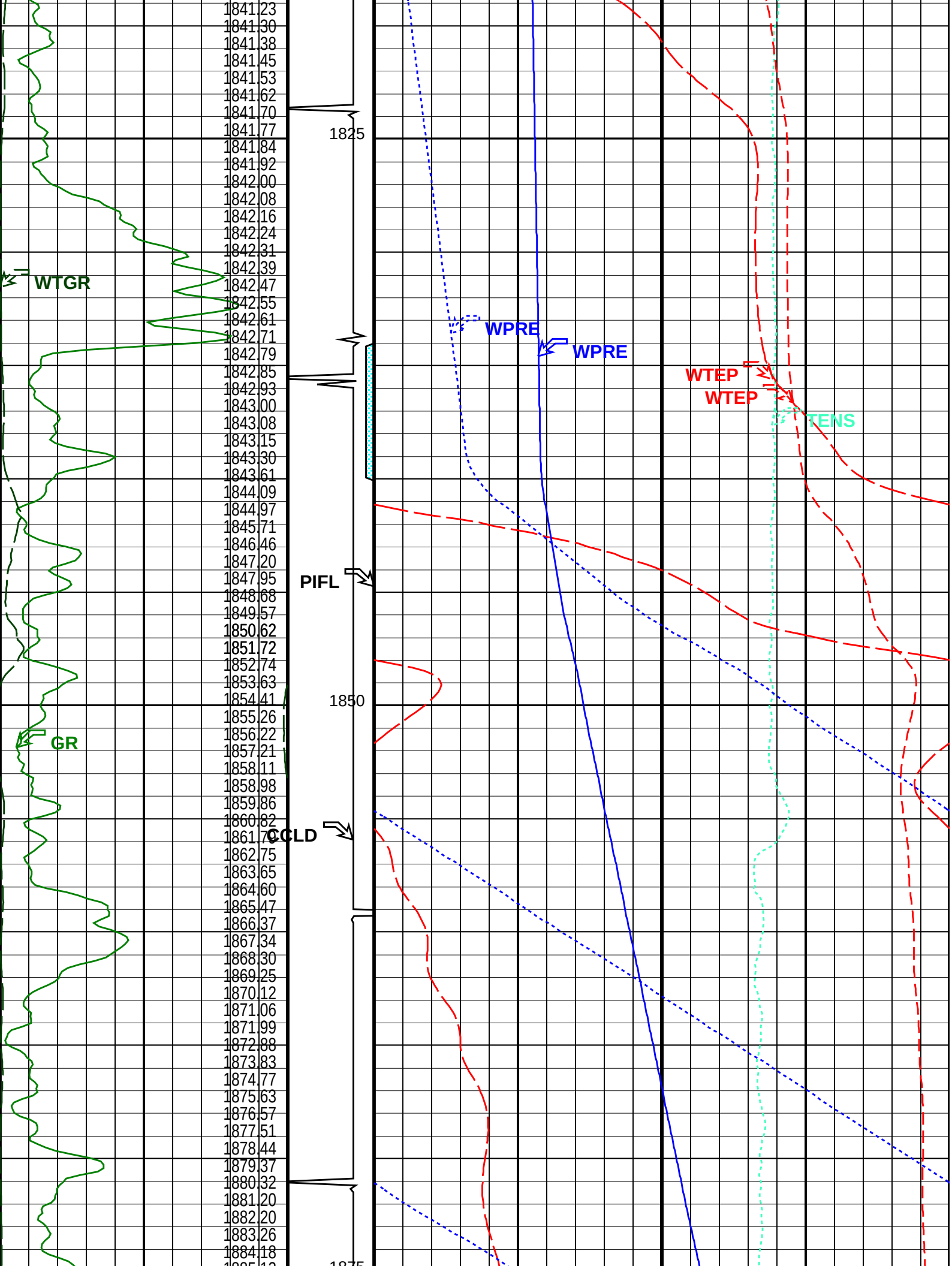
1841.15


1841.23
1841.30
1841.38
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1841.53
1841.62
1841.70
1841.77
1825
1841.84
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1842.00
1842.08
1842.16
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1842.31
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1842.55
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1844.09
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1848.68
1849.57
1850.62
1851.72
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1853.63
1854.41
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1855.26
1856.22
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1861.79
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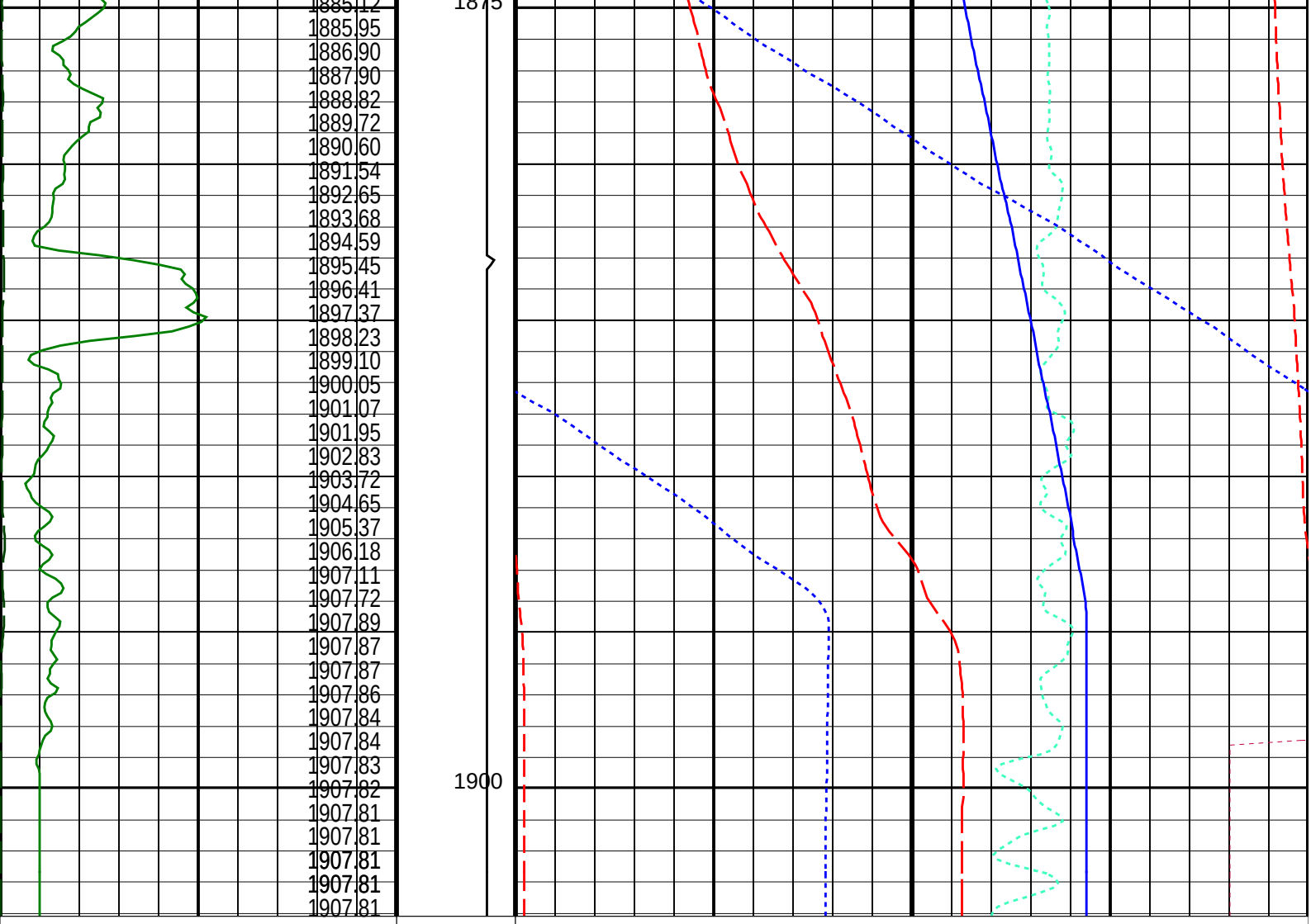
1876.57
1877.51
1878.44
1879.37
1880.32
1881.20
1882.20
1883.26
1884.18
WTGR
GR
WPRE
WPRE
WTEP
WTEP
TENS
PIFL
CCLD



Gamma Ray (GR)
0 (GAPI) 150

Discriminated CCL (CCLD)
3 (V) −1

Well Temperature (WTEP)
160 (DEGF) 173

Well Temperature Gradient (WTGR)
0 (DGFM) 10

Perfo Zone From PERFO_CURVE to D3T

Well Temperature (WTEP)
0 (DEGF) 2

Well Pressure (WPRE) (PSIA)

Well Pressure (WPRE)
1800 (PSIA) 1950

Amplified Well Pressure (WPRE)
0 (PSIA) 20

Tension (TENS)
0 (LBF) 1500

Cable Speed (CS)
0 (F/HR) 5000

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1_1 Vertical Scale: 1:200 Graphics File Created: 09−Nov−2006 13:42

OP System Version: 14C0−302

MCM

RST−C	14C0−302	PSPT−B	14C0−302

Parameters

DLIS Name	Description	Value
	System and Miscellaneous	
DO	Depth Offset for Playback	−0.9 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT	Flip_RST_PSP_021LUP		PRODUCER	09−Nov−2006 13:40	1905.0 M	1586.9 M

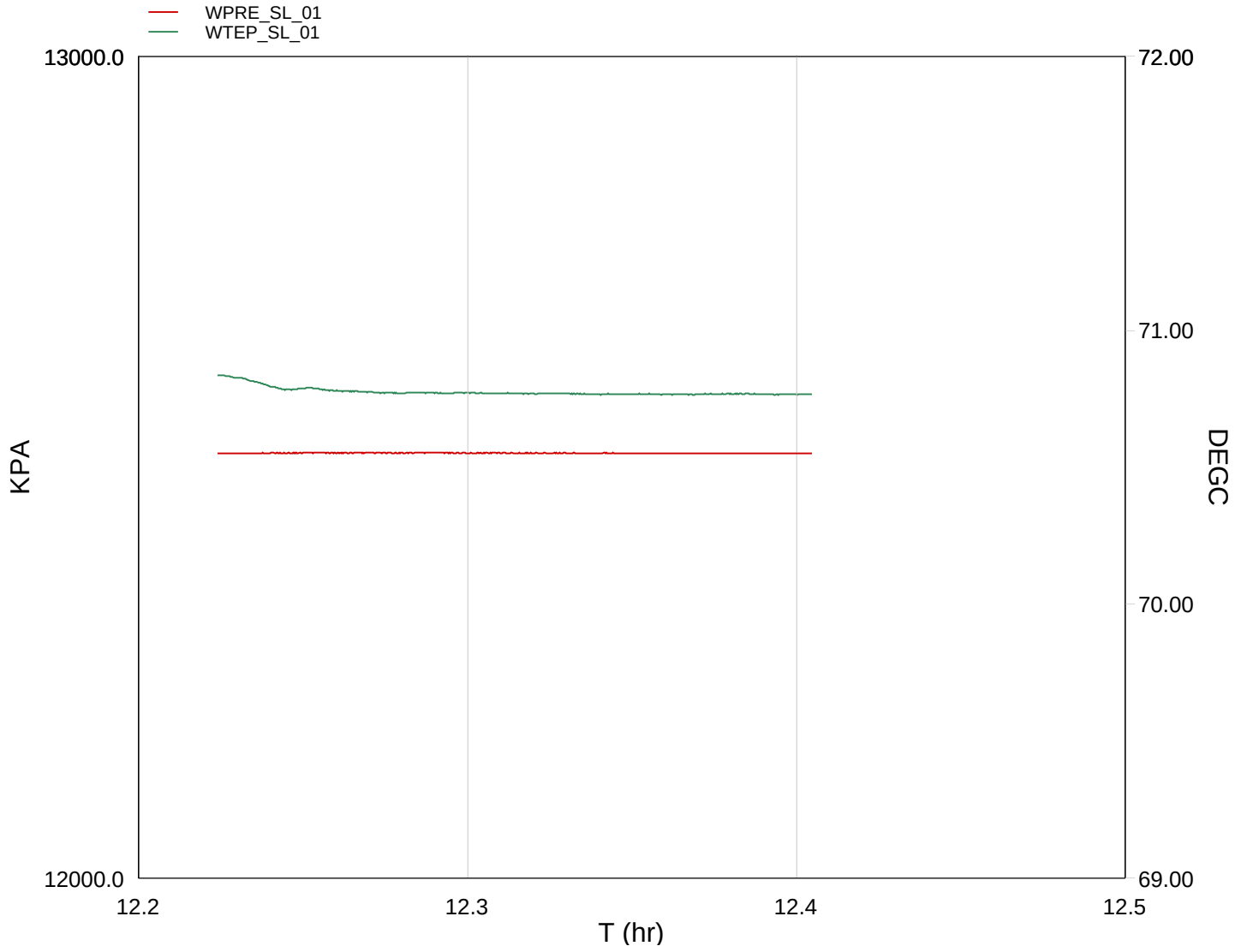
Output DLIS Files

DEFAULT	RST_PSP_022PUP	FN:20	PRODUCER	09−Nov−2006 13:42	

Schlumberger

Static Pressure−Temperature @ 1547m MDKB (1164.1m TVD)

MAXIS Field Log

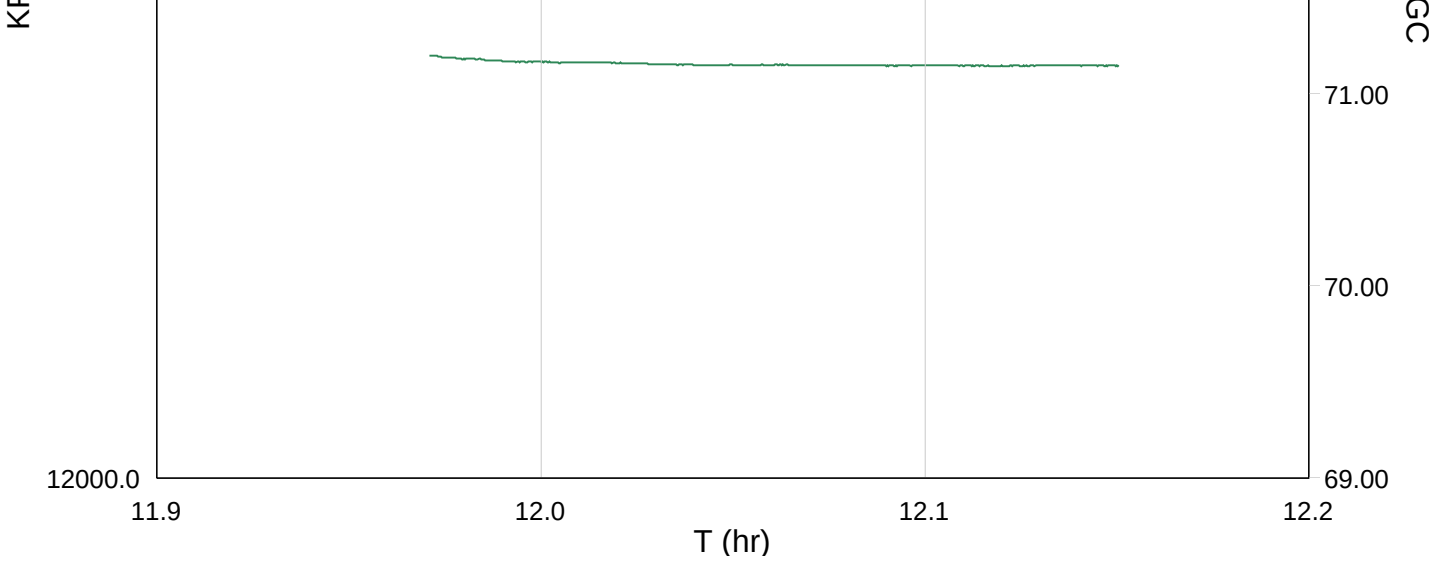


TIME	WTEP_SL	WPRE_SL
3660.0	159.5048	1815.4909
3690.0	159.4855	1815.4986
3720.0	159.4296	1815.5109
3750.0	159.4164	1815.5071
3780.0	159.4057	1815.5088
3810.0	159.4019	1815.5077
3840.0	159.3889	1815.5098
3870.0	159.3889	1815.5065
3900.0	159.3890	1815.5145
3930.0	159.3891	1815.5096
3960.0	159.3877	1815.5103
3990.0	159.3847	1815.5068
4020.0	159.3869	1815.5120
4050.0	159.3827	1815.5064
4080.0	159.3783	1815.5072
4110.0	159.3792	1815.5033
4140.0	159.3797	1815.4957
4170.0	159.3790	1815.5047
4200.0	159.3831	1815.5048
4230.0	159.3835	1815.5040
4260.0	159.3799	1815.5013
4290.0	159.3806	1815.4985

Schlumberger

Static Pressure−Temperature
@ 1572m MDKB (1179.3m TVD)

MAXIS Field Log

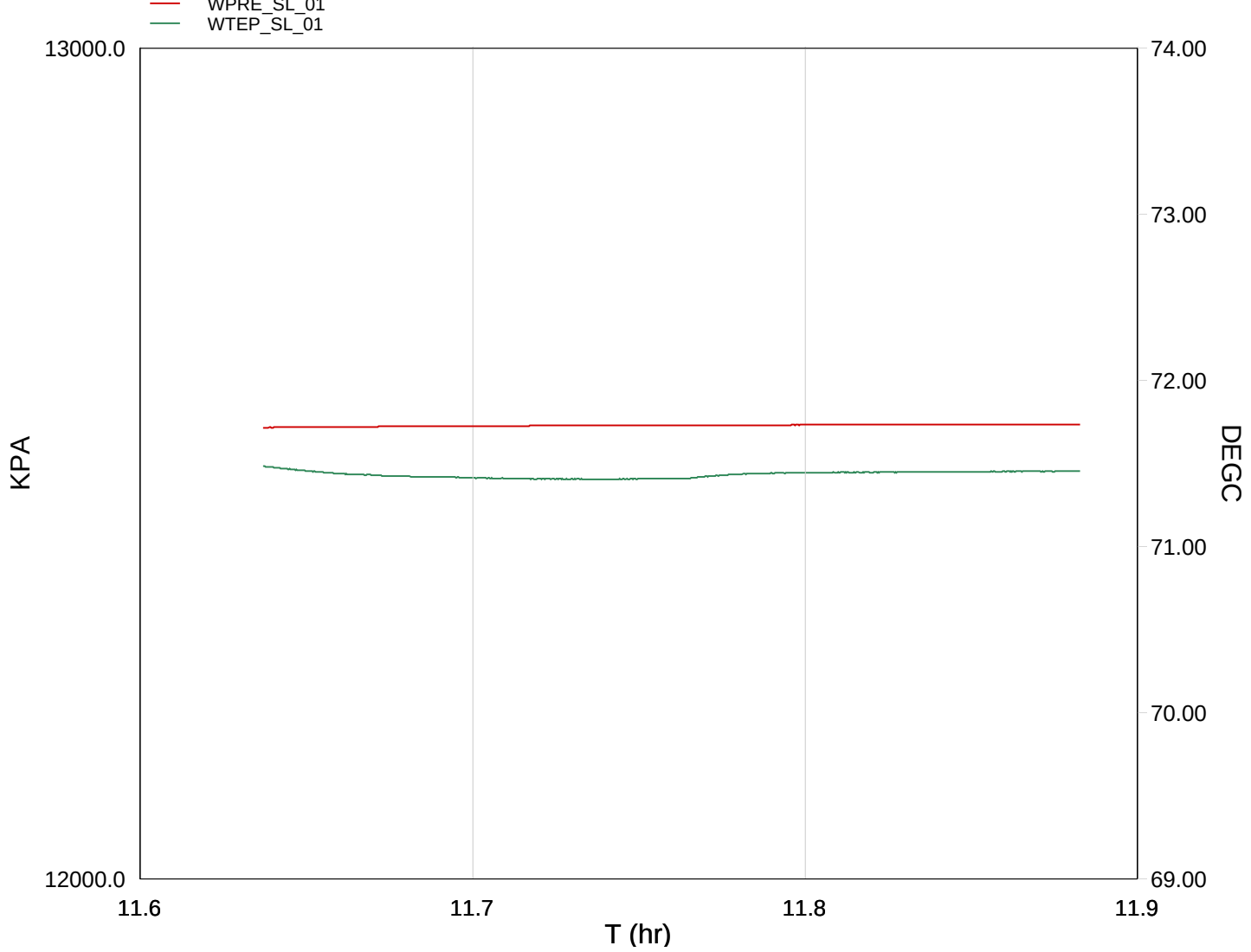


TIME	WTEP_SL	WPRE_SL
2760.0	160.1487	1817.6195
2790.0	160.1305	1817.6435
2820.0	160.1089	1817.6549
2850.0	160.1037	1817.6748
2880.0	160.0968	1817.6846
2910.0	160.0950	1817.6923
2940.0	160.0902	1817.6986
2970.0	160.0789	1817.7074
3000.0	160.0733	1817.7099
3030.0	160.0726	1817.7154
3060.0	160.0738	1817.7130
3090.0	160.0704	1817.7223
3120.0	160.0689	1817.7243
3150.0	160.0687	1817.7262
3180.0	160.0656	1817.7289
3210.0	160.0684	1817.7236
3240.0	160.0690	1817.7331
3270.0	160.0661	1817.7316
3300.0	160.0661	1817.7367
3330.0	160.0675	1817.7324
3360.0	160.0679	1817.7367
3390.0	160.0684	1817.7355

Schlumberger

Static Pressure−Temperature
@ 1597m MDKB (1194.6m TVD)

MAXIS Field Log



TIME	WTEP_SL	WPRE_SL
1560.0	160.6582	1819.2831
1590.0	160.6250	1819.3266
1620.0	160.5987	1819.3729
1650.0	160.5817	1819.3957
1680.0	160.5684	1819.4313
1710.0	160.5583	1819.4610
1740.0	160.5538	1819.4881
1770.0	160.5451	1819.5121
1800.0	160.5412	1819.5399
1830.0	160.5368	1819.5655
1860.0	160.5334	1819.5851
1890.0	160.5342	1819.5971
1920.0	160.5323	1819.6156
1950.0	160.5339	1819.6304
1980.0	160.5361	1819.6459
2010.0	160.5389	1819.6634
2040.0	160.5696	1819.6858
2070.0	160.5874	1819.6956
2100.0	160.5961	1819.7088
2130.0	160.6017	1819.7199
2160.0	160.6031	1819.7244
2190.0	160.6047	1819.7372
2220.0	160.6068	1819.7466

2250.0	160.6101	1819.7649
2280.0	160.6108	1819.7794
2310.0	160.6125	1819.7942
2340.0	160.6140	1819.7973
2370.0	160.6146	1819.8061
2400.0	160.6158	1819.8199
2430.0	160.6170	1819.8218

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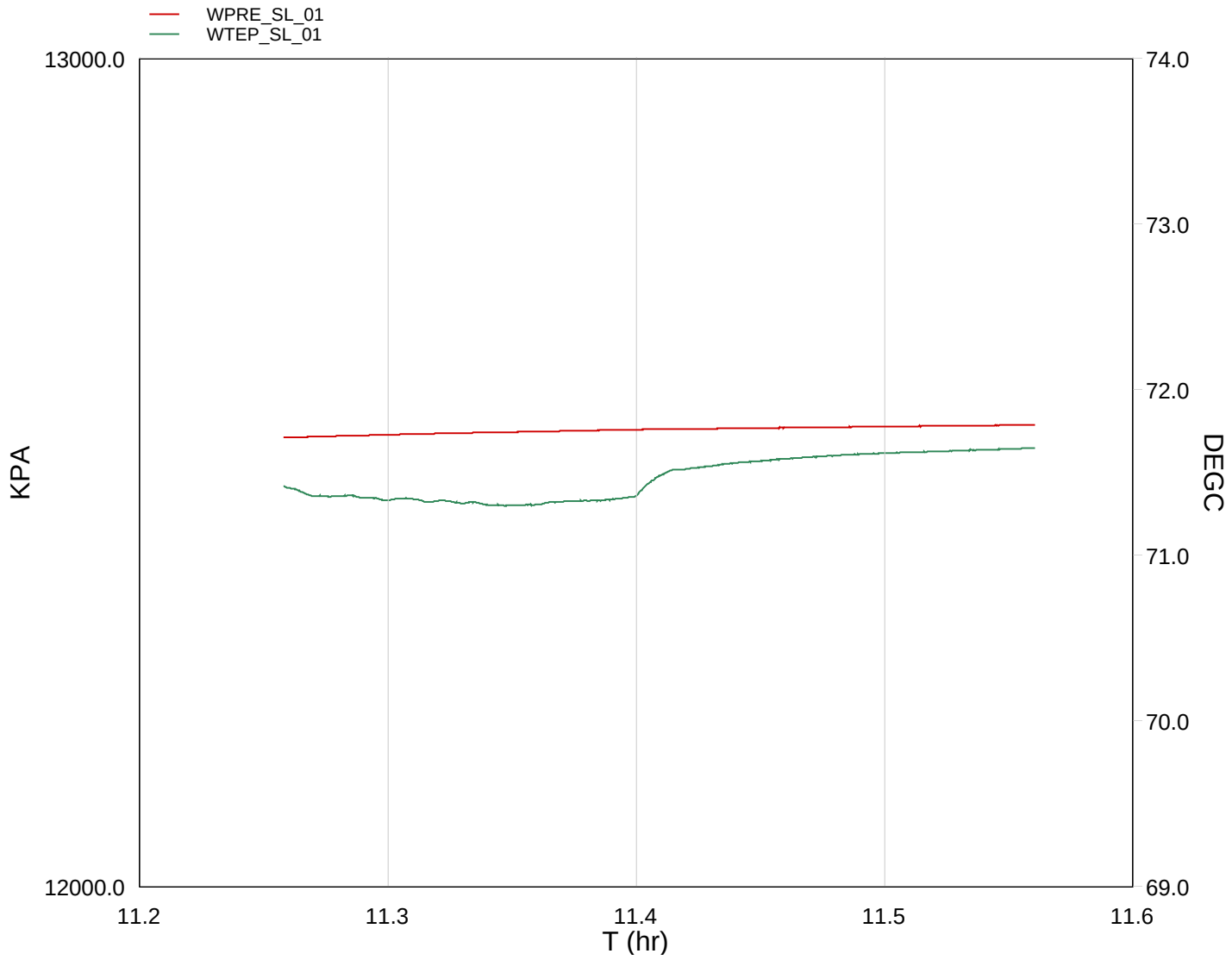
Static Pressure−Temperature @ 1622.6m MDKB (1210.4m TVD)

MAXIS Field Log



TIME	WTEP_SL	WPRE_SL

180.0	160.5536	1819.1511
210.0	160.4924	1819.2432
240.0	160.4518	1819.3525
270.0	160.4499	1819.4621
300.0	160.4321	1819.5468
330.0	160.4035	1819.6364
360.0	160.4234	1819.7341
390.0	160.3882	1819.8212
420.0	160.3975	1819.9148
450.0	160.3755	1819.9855
480.0	160.3524	1820.0605
510.0	160.3462	1820.1190
540.0	160.3546	1820.1916
570.0	160.3795	1820.2690
600.0	160.3943	1820.3322
630.0	160.3986	1820.4073
660.0	160.4120	1820.4835
690.0	160.4398	1820.5474
720.0	160.6166	1820.6082
750.0	160.7317	1820.6565
780.0	160.7520	1820.6929
810.0	160.7816	1820.7251
840.0	160.8075	1820.7682
870.0	160.8269	1820.8142
900.0	160.8477	1820.8696
930.0	160.8629	1820.9148
960.0	160.8773	1820.9437
990.0	160.8910	1820.9898
1020.0	160.9025	1821.0382
1050.0	160.9130	1821.0786
1080.0	160.9218	1821.1239
1110.0	160.9271	1821.1681
1140.0	160.9323	1821.2079
1170.0	160.9438	1821.2542
1200.0	160.9512	1821.2824
1230.0	160.9597	1821.3260
1260.0	160.9675	1821.3595

Company:	**Esso Australia Pty Ltd.**
Well:	**A−13**
Field:	**Snapper**
Rig:	**Snapper**
Country:	**Australia**

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RST−C
Sigma
Survey