

[illegible]

Biq: Crane / Prod # 4



Company: Esso Australia Pty Ltd.

Well: A-10a

Field: Cobia

Rig: Crane / Prod # 4

Country: Australia

Field: Cobia
Location: Gippsland
Well: A-10a
Company: Esso Australia Pty Ltd.

RST - C
Static & Flowing
Sigma - C/O Survey

LOCATION			
Gippsland		Elev.:	K.B. 32.4 m
Basin			G.L. -79 m
Bas Strait			D.F. 32.3 m
Permanent Datum:	MSL.	Elev.:	0 m
Log Measured From:	DF.		32.3 m above Perm. Datum
Drilling Measured From:	DF.		

State: Victoria	Max. Well Deviation 62 deg	Longitude 148°18'28.5"E	Latitude 038°27'03.1"S
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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

PVT DATA

Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	62 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

Date Created: 5-MAY-2007 7:45:09

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-BE	Type:	PSDS/OSDS	Type:	2-32ZT
Serial Number:	6373	Serial Number:	325357	Serial Number:	24425
Calibration Date:	05-Jul-2006	Calibration Date:	26-Apr-2007	Length:	6590.08 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1174	Conveyance Method: Wireline Rig Type: Rigless	
Calibration Cable Type:	2-32ZT	Calibration Gain:	0.91		
Wheel Correction 1:	-2	Calibration Offset:	217.00		
Wheel Correction 2:	-4				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Solar Composite Correlation
Reference Log Run Number:	1
Reference Log Date:	

Depth Control Remarks

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

DISCLAIMER

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OTHER SERVICES1
OS1: None
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
Log Correlated to Solar composite log provided by client .
Objective: Conduct RST-C Sigma and C/O surveys both Static and Flowing over the interval 4050m MDKB to 3900m MDKB.
Maximum Well Deviation : 62 deg @2371m MDKB.
Shut-in CO passes over 3934m to 3956m MDKB.
Flowing CO passes over 3955m to 3981m MDKB.
SBHP: 3272 degf,SBHT: 226 degf.
FBHP: 3229 psia,FBHT: 227 degf.

HUD: was not tagged.

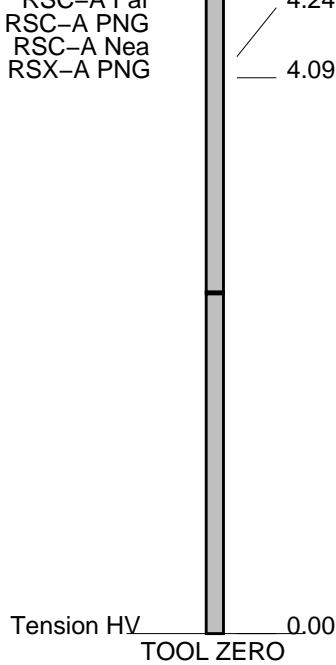
Crew : J Annear , C Shields (Days)

A Hall , G Martin (Nights)

RUN 1					
SERVICE ORDER #:		AUSL073228217			
PROGRAM VERSION:		14C0-302			
FLUID LEVEL:		135 m			
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

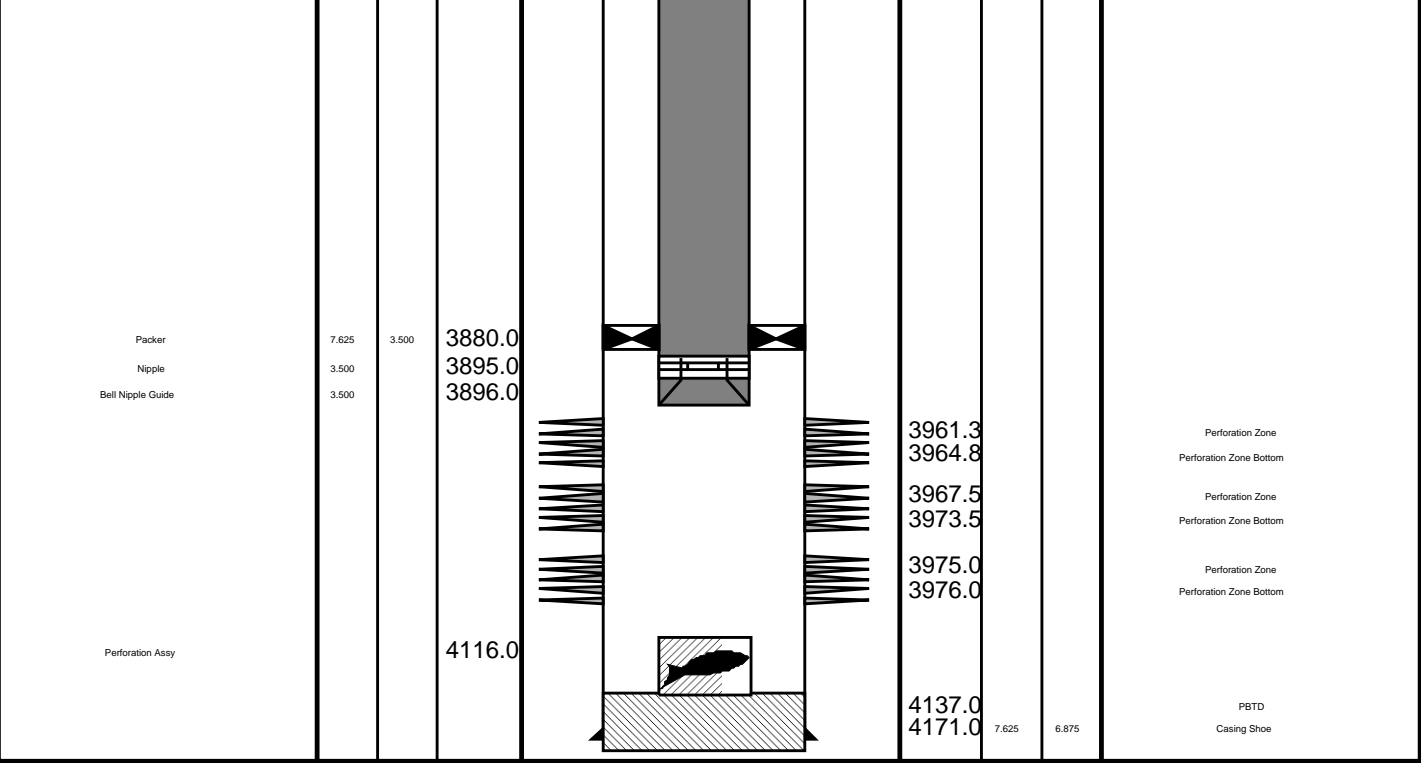
EQUIPMENT DESCRIPTION

RUN 1		RUN 2		
SURFACE EQUIPMENT				
WITM-A 3576 PSC_16MHZ 806				
DOWNHOLE EQUIPMENT				
SWBS-B 761				11.93
SWBS-B 762				11.24
SWBS-B 763				10.55
SWHS-A 726	Detail MT TelStatus CTEM			9.87
PSPT-A/B 827				9.54
PSC-A 806 PSPT-B 827 PSTC 806 PBMS-B 827 CQG_F_Mano 827 RTD Thermometer 827 GR 827 CCL 827 PBMS 827	GR			8.41
	Well_Temp CQG Manom CCL PBMS PSTC			7.48 7.37 7.25 7.02
RST-C 45 RSCH-A 45 RSC-C 45 RSS-A 45 RSXH-A 63 RSX-C 59		7.02		



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

Production String	(m)		MD	Well Schematic	(m)			Casing String
	OD	ID			MD	OD	ID	
Tubing Tubing Hanger	3.500 7.625	3.500	18.1 18.1		18.8 18.8 18.8	10.750 7.625 10.750	10.050 6.875 7.625	Casing String Casing String Liner Hanger
Shut-in Valve	3.500		454.0		617.0	10.750	10.050	Casing Shoe
Gas Lift Mandrel	3.500		1131.0					
Gas Lift Mandrel	3.500		1876.0					
Gas Lift Mandrel	3.500		2503.0					
Nipple	3.500		2519.0					



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Station Log	6-May-2007 4:17 000:19	1008.7 - 2.9	RST_PSP_012LTP
Log Pass (down)	6-May-2007 4:45 000:60	0.6 - 4063.3	RST_PSP_014LDP
Log Pass (up)	6-May-2007 5:45 000:21	4067.4 - 3879.2	RST_PSP_015LUP
Log Pass (down)	6-May-2007 6:08 000:07	3890.2 - 4046.7	RST_PSP_016LDP
Log Pass (up)	6-May-2007 6:25 000:39	4063.3 - 3883.5	RST_PSP_018LUP
Log Pass (up)	6-May-2007 7:08 000:59	3963.6 - 3926.6	RST_PSP_019LUP
Log Pass (up)	6-May-2007 8:10 001:07	3964.1 - 3924.5	RST_PSP_020LUP
Log Pass (up)	6-May-2007 9:18 001:12	3964.4 - 3923.5	RST_PSP_021LUP
Station Log	6-May-2007 10:42 004:38	4050.0 - 42.4	RST_PSP_024LTP
Log Pass (up)	6-May-2007 15:25 000:03	4060.5 - 4044.4	RST_PSP_025LUP
Log Pass (up)	6-May-2007 15:29 000:38	4055.1 - 3890.0	RST_PSP_026LUP
Log Pass (up)	6-May-2007 16:16 000:35	4055.7 - 3890.5	RST_PSP_028LUP
Log Pass (up)	6-May-2007 16:58 001:22	3986.2 - 3944.4	RST_PSP_030LUP
Log Pass (up)	6-May-2007 18:20 001:08	3988.2 - 3953.7	RST_PSP_031LUP
Log Pass (up)	6-May-2007 19:34 001:22	3990.1 - 3942.0	RST_PSP_032LUP
Log Pass (up)	6-May-2007 20:58 001:26	3988.6 - 3944.0	RST_PSP_033LUP
Log Pass (up)	6-May-2007 22:33 000:57	3949.3 - -5.3	RST_PSP_034LUP



Flowing Carbon Oxygen Passes
3981m to 3955m MDKB

MAXIS Field Log

RQL Passes Summary

RQL Software Version Number 2.00

- Pass # 1 (RQL_CS_044_1):
- Pass # 2 (RQL_CS_052_1):
- Pass # 3 (RQL_CS_053_1):
- Pass # 4 (RQL_CS_054_1):

RQL Quality Flags Raised (Data)

- Near Data Error: No good C,O left to stack.
- Near Data Error: In computing C/O ratio.
- Near Data Caution: Discarded invalid C,O.
- Far Data Error: No good C,O left to stack.
- Far Data Error: In computing C/O ratio.
- Far Data Caution: Discarded invalid C,O.

Company: Esso Australia Pty Ltd. Well: A-10a

Output DLIS Files

DEFAULT RST_PSP_056PUP FN:55 PRODUCER 07-May-2007 06:45 3986.2 M 3955.2 M

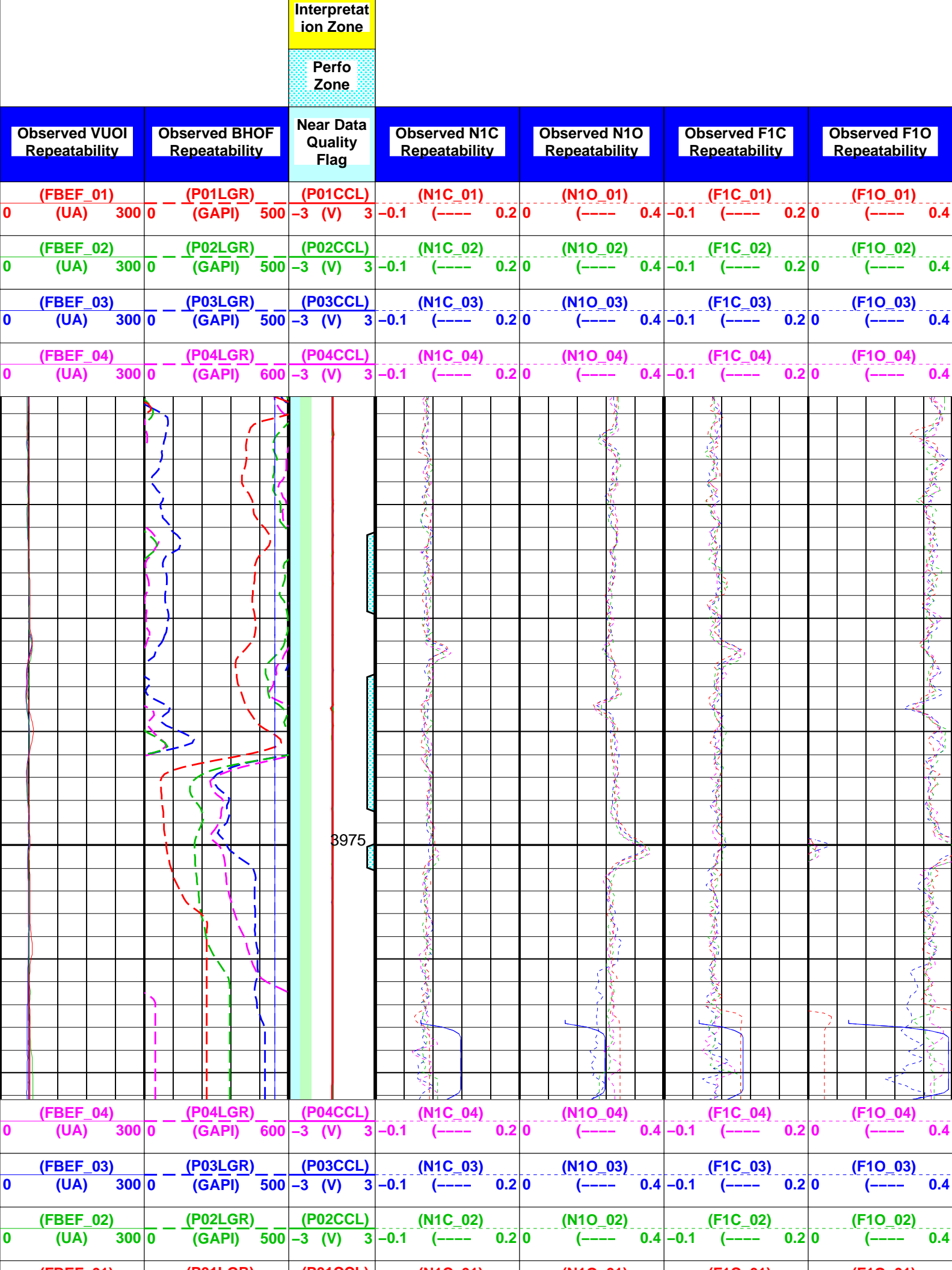
OP System Version: 14C0-302
MCM

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

Squeezed
Perfo
Zone

Tool Data
Quality
Flag

Far Data
Quality
Flag



<div>(FBEF_01)</div> <div>(UA)</div> <div>300</div>		<div>(P01LGR)</div> <div>(GAPI)</div> <div>500</div>		<div>(V)</div> <div>-3</div> <div>3</div>		<div>(N1C_01)</div> <div>(----</div> <div>0.2</div>		<div>(N1O_01)</div> <div>(----</div> <div>0.4</div>		<div>(F1C_01)</div> <div>(----</div> <div>0.2</div>		<div>(F1O_01)</div> <div>(----</div> <div>0.4</div>	
Observed VUOI Repeatability		Observed BHOF Repeatability		Near Data Quality Flag		Observed N1C Repeatability		Observed N1O Repeatability		Observed F1C Repeatability		Observed F1O Repeatability	
				Perfo Zone									
				Interpretat ion Zone									
				Far Data Quality Flag									
				Tool Data Quality Flag									
				Squeezed Perfo Zone									

Parameters

DLIS Name		Description	Value	
RST-C: Reservoir Saturation Pro Tool C				
BHS		Borehole Status	CASED	
CSID		Casing Size I.D.	6.875	IN
PSPT-A/B: Production Services Logging Platform				
BHS		Borehole Status	CASED	
CSID		Casing Size I.D.	6.875	IN
BORDYN: BorDyn (Well Test Validation)				
BHS		Borehole Status	CASED	
CSID		Casing Size I.D.	6.875	IN
RQL: RSTPro Reservoir Quick Look				
ADFC_RQL		RQL Adaptive Filter Control	FILTER_ON	
ALFL_RQL		RQL Alpha Filter Length	11_LEVELS	
BCDV_RQL		RQL Borehole Oil Carbon Density Value	0.731495	
BGAS_RQL		RQL Borehole Gas Present	NO_GAS	
BHOF_RQL		RQL Oil Holdup	0	
BHOF_SIG_RQL		RQL Oil Holdup Uncertainty	0.01	
BHS		Borehole Status	CASED	
CARB_RQL		RQL Carbonate Fraction	0	
CCLS		CCL Selector	CCLC	
CSID		Casing Size I.D.	6.875	IN
FCDV_RQL		RQL Formation Oil Carbon Density Value	0.731495	
FCHD		Cased Hole Diameter Selector	PARAMETER	
FOFF_RQL		RQL Far Inelastic Carbon/Oxygen Ratio Offset	0	
LSRC_RQL		RQL Lithology Model Source	RQL_Lith_Indicator	
NOFF_RQL		RQL Near Inelastic Carbon/Oxygen Ratio Offset	0	
PCVS		CVEL Selector	CVEL	
PGRS		GR Selector	GR	
PGS		Pressure Gauge Selector	WPRE	
PING_RQL		RQL Poro Indicator Gain	1	
PINO_RQL		RQL Poro Indicator Offset	0	
PSRC_RQL		RQL Porosity Model Source	RQL_Poro_Indicator	
PWHS		PLQL Water HoldUp Selector	NONE	
RHOS		Fluid Density Selector	WFDE	
SMFL_RQL		RQL Smoothing Filter Length	05_LEVELS	
SMSA_RQL		RQL Algorithm for Stacking Sigma Mode Data	WEIGHTED	
SPIS		Spinner Selector	SPIN	
TMPS		Temperature Selector	WTEP	
TPHI_RQL		RQL Porosity	0.25	
TPOS_RQL		RQL Tool Position in the Borehole	ECCENTERED	
VUOI_SIGT_RQL		RQL Oil Volume Target Uncertainty	-50000	
System and Miscellaneous				
BS		Bit Size	9.875	IN
CSIZ		Current Casing Size	7.625	IN
CWEI		Casing Weight	29.70	LB/F
DO		Depth Offset for Playback	1.2	M
PP		Playback Processing	NORMAL	

OP System Version: 14C0-302

MCM

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

Output DLIS Files

DEFAULT RST_PSP_056PUP FN:55 PRODUCER 07-May-2007 06:45



Flowing Sigma Pass # 2

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-10a

Input DLIS Files

DEFAULT RST_PSP_028LUP FN:27 PRODUCER 06-May-2007 16:16 4055.7 M 3890.5 M

Output DLIS Files

DEFAULT RST_PSP_029PUP FN:28 PRODUCER 06-May-2007 16:53 4054.6 M 3884.4 M

OP System Version: 14C0-302

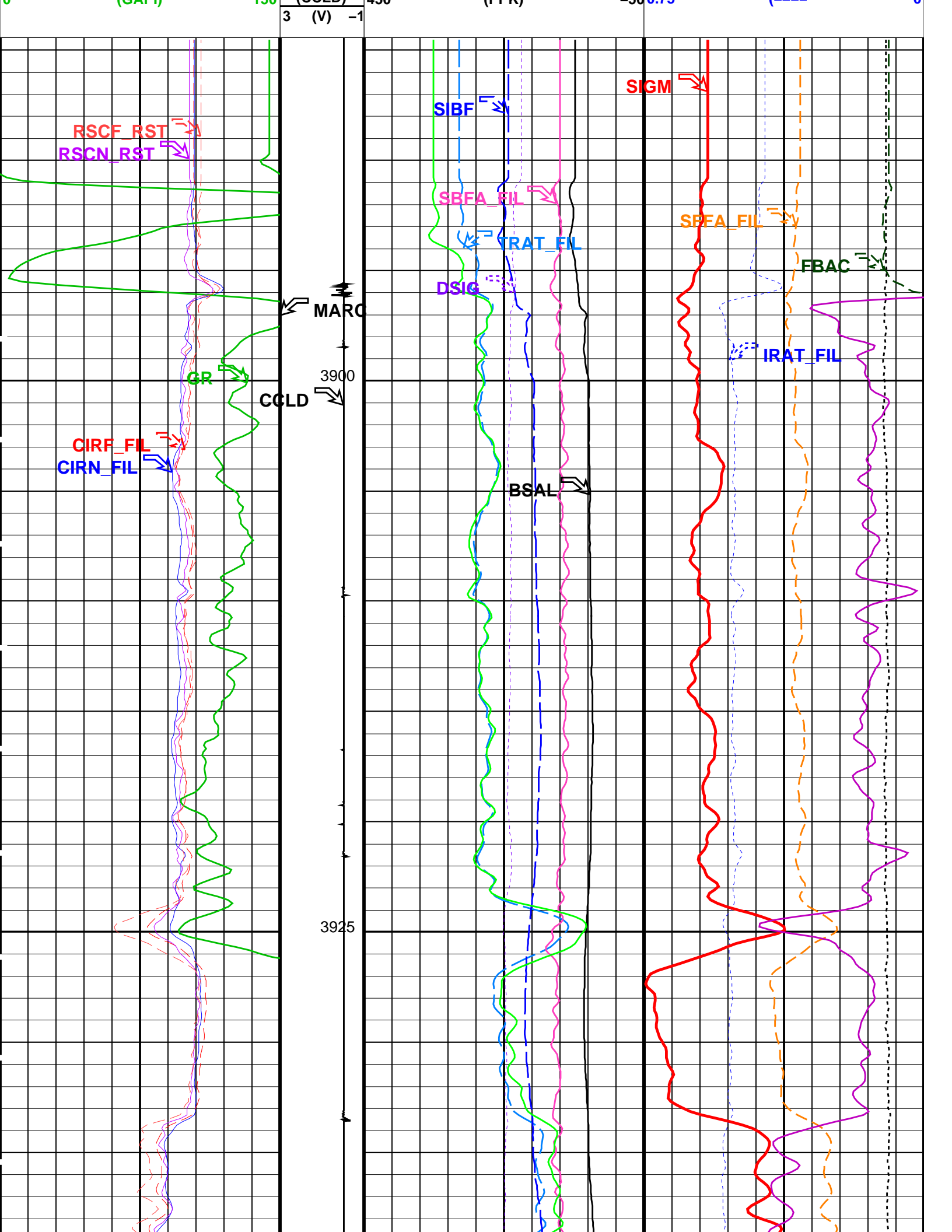
MCM

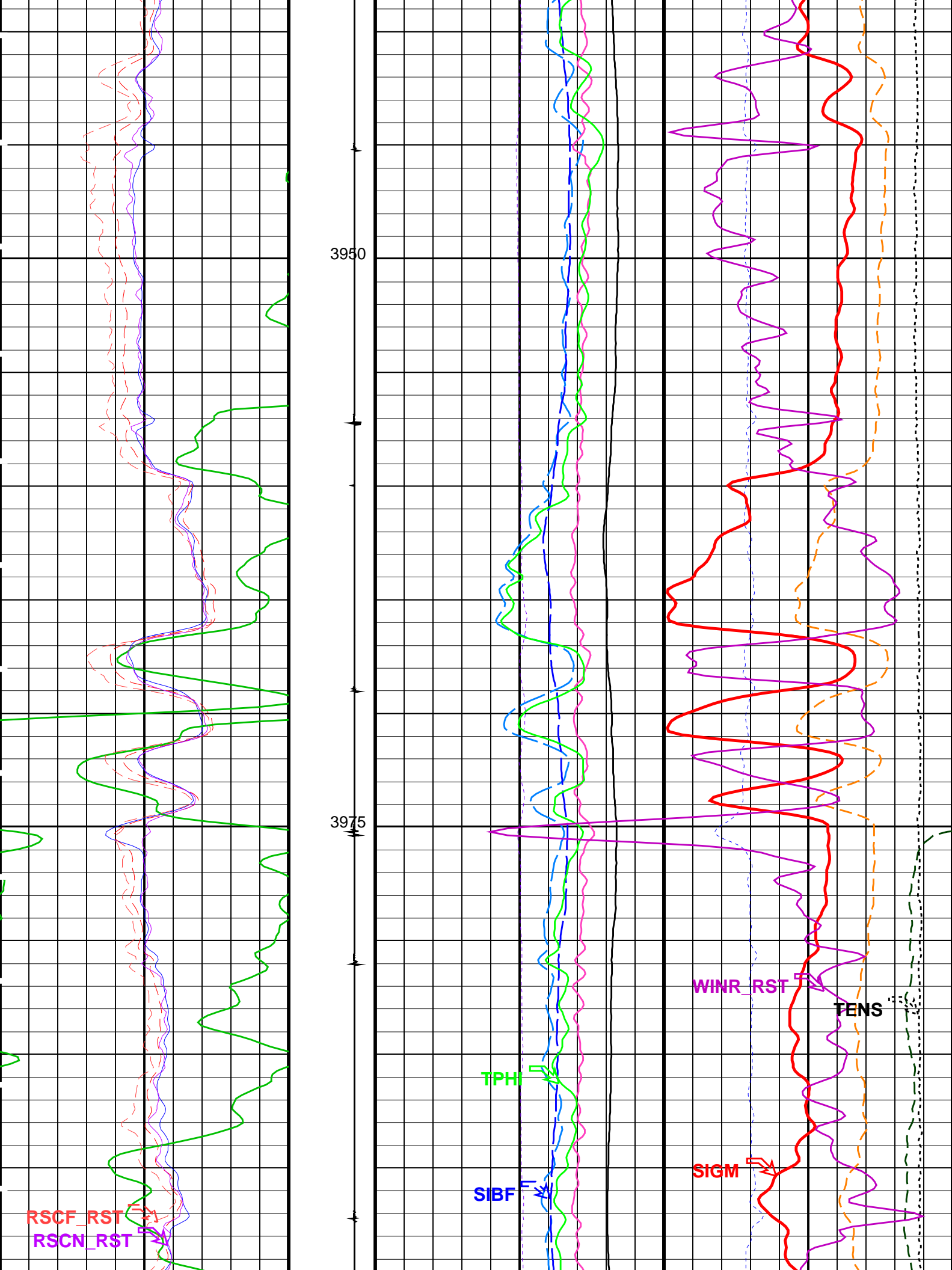
RST-C 14C0-302 PSPT-A/B 14C0-302

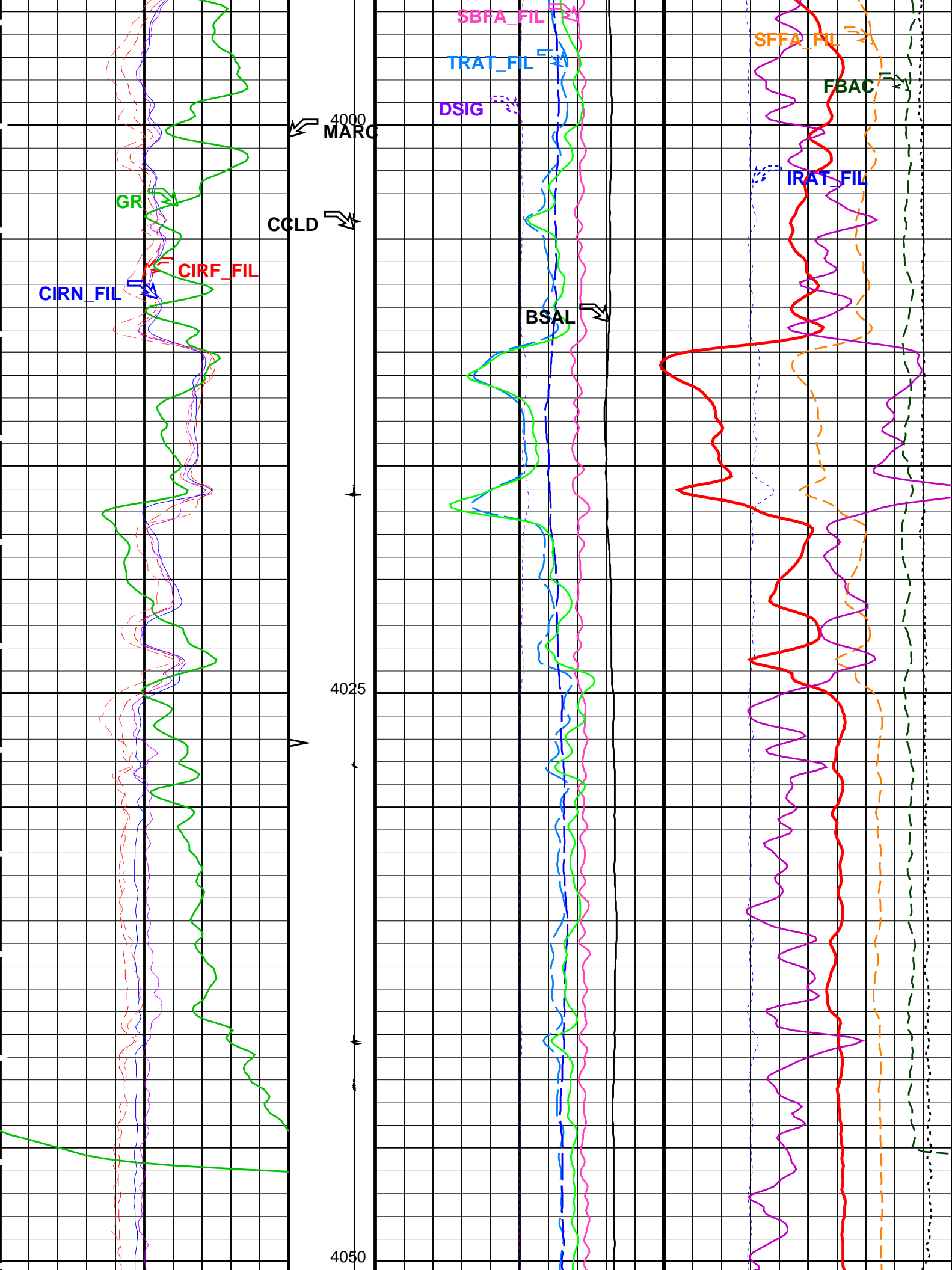
PIP SUMMARY

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)		RST Sigma Borehole Fluid (SIBF)	
45	(----	100	(CU) 0
RST Near Effective Capture CR (RSCN_RST)		Sigma Borehole Far Apparent (SBFA_FIL)	
45	(----	150	(CU) 0
		Tension (TENS)	
		0 (LBF) 3000	
RST Capture to Inelastic Ratio Far (CIRF_FIL)		RST Capture Ratio (TRAT_FIL)	
5	(----	1.5	(---- 0.5
		Sigma Formation Far Apparent (SFFA_FIL)	
		60 (CU) 0	
RST Capture to Inelastic Ratio Near (CIRN_FIL)		RST Sigma Difference (DSIG)	
2.5	(----	-30	(CU) 30
		MCS Far Background (filtered) (FBAC)	
		0 (CPS) 5000	
		Minitron Arc Detection (MARC)	
		0 (---- 5	
		Discriminat ed CCL (CCL D)	
Gamma Ray (GR)		RST Borehole Salinity (BSAL)	
0	(GAPI) 150	450	(PPK) -50
		RST Inelastic Ratio (IRAT_FIL)	
		0.75 (---- 0	



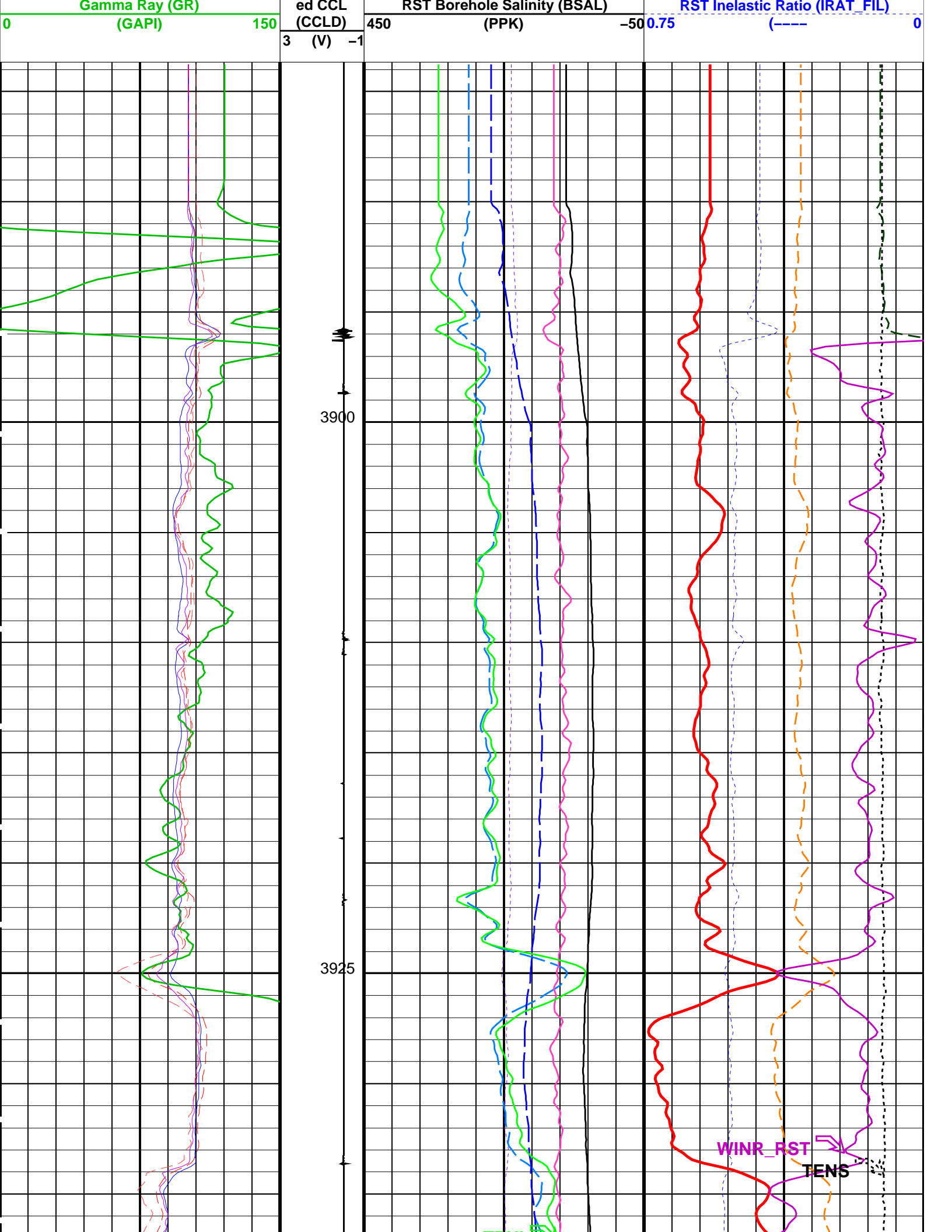


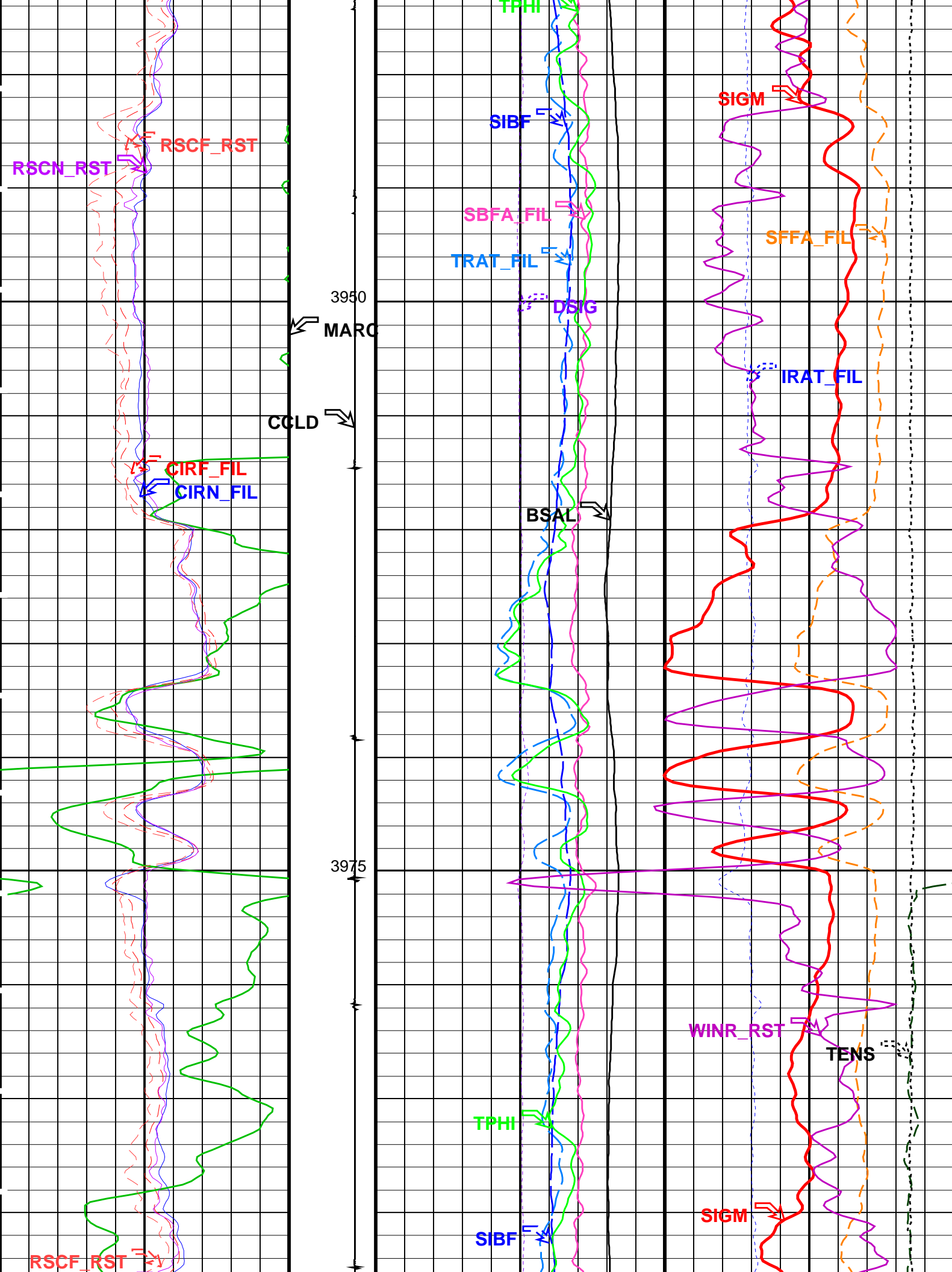


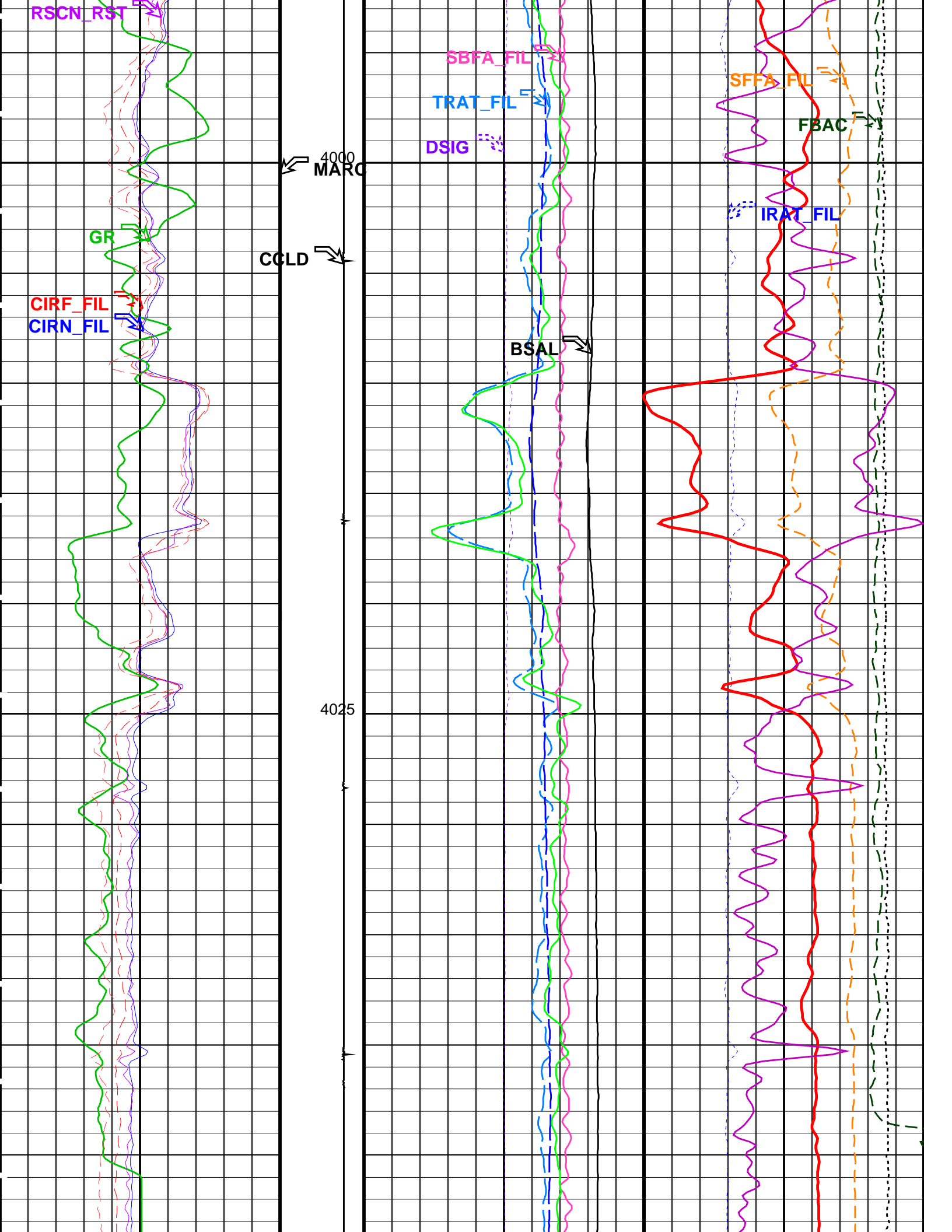
RST-C	14C0-302	PSPT-A/B	14C0-302
Input DLIS Files			
DEFAULT	RST_PSP_028LUP	FN:27 PRODUCER	06-May-2007 16:16 4055.7 M 3890.5 M
Output DLIS Files			
DEFAULT	RST_PSP_029PUP	FN:28 PRODUCER	06-May-2007 16:53
<div><div>Schlumberger</div><div>Flowing Sigma Pass # 1</div><div>MAXIS Field Log</div></div>			

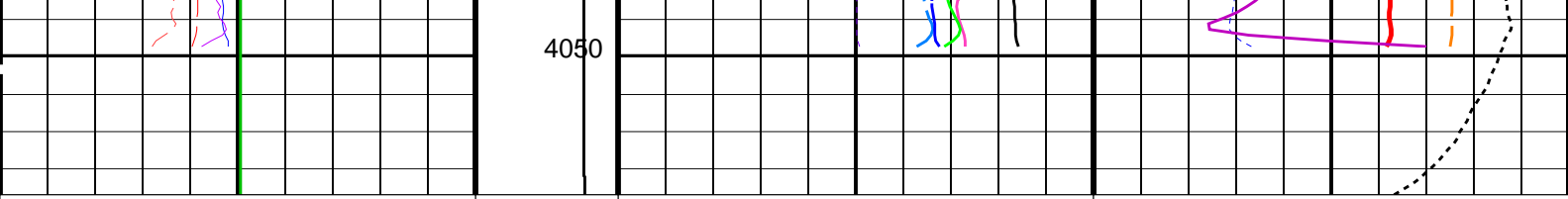
Company: Esso Australia Pty Ltd.			Well: A-10a
Input DLIS Files			
DEFAULT	RST_PSP_026LUP	FN:25 PRODUCER	06-May-2007 15:29 4055.1 M 3890.0 M
Output DLIS Files			
DEFAULT	RST_PSP_027PUP	FN:26 PRODUCER	06-May-2007 16:08 4053.7 M 3883.6 M
OP System Version: 14C0-302			
MCM			
RST-C	14C0-302	PSPT-A/B	14C0-302

PIP SUMMARY			
Time Mark Every 60 S			
<div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45-----0</div> <div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45-----0</div> <div>RST Capture to Inelastic Ratio Far (CIRF_FIL)</div> <div>5-----0</div> <div>RST Capture to Inelastic Ratio Near (CIRN_FIL)</div> <div>2.5-----0</div>		<div>RST Sigma (SIGM)</div> <div>60-----0</div> <div>RST Weighted Inelastic Ratio (WINR_RST)</div> <div>0.4-----0</div> <div>RST Porosity (TPHI)</div> <div>0.6-----0</div> <div>RST Sigma Borehole Fluid (SIBF)</div> <div>100-----0</div> <div>Sigma Borehole Far Apparent (SBFA_FIL)</div> <div>150-----0</div> <div>RST Capture Ratio (TRAT_FIL)</div> <div>1.5-----0.5</div> <div>Sigma Formation Far Apparent (SFFA_FIL)</div> <div>60-----0</div>	
		<div>Tension (TENS)</div> <div>0-----3000</div>	
		<div>RST Sigma Difference (DSIG)</div> <div>-30-----30</div> <div>MCS Far Background (filtered) (FBAC)</div> <div>0-----5000</div>	
Minitron Arc Detection (MARC)			
0-----5			
Discriminat			









Gamma Ray (GR) (GAPI) 0 150	Discriminat ed CCL (CCLD) 3 (V) -1	RST Borehole Salinity (BSAL) (PPK) 450 -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) (CU) -30 30	MCS Far Background (filtered) (FBAC) (CPS) 0 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_ RST) 45 (----) 0		Sigma Borehole Far Apparent (SBFA_ FIL) 150 (CU) 0	Tension (TENS) 0 (LBF) 3000
RST Far Effective Capture CR (RSCF_ RST) 45 (----) 0		RST Sigma Borehole Fluid (SIBF) (CU) 100 0	
		RST Porosity (TPHI) (V/V) 0.6 0	
		RST Weighted Inelastic Ratio (WINR_RST) (----) 0.4 0	
		RST Sigma (SIGM) (CU) 60 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-A/B: Production Services Logging Platform		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
RQL: RSTPro Reservoir Quick Look		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
System and Miscellaneous		
BS	Bit Size	9.875 IN
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	7.625 IN
CWEI	Casing Weight	29.70 LB/F
DO	Depth Offset for Playback	-1.4 M
PP	Playback Processing	NORMAL

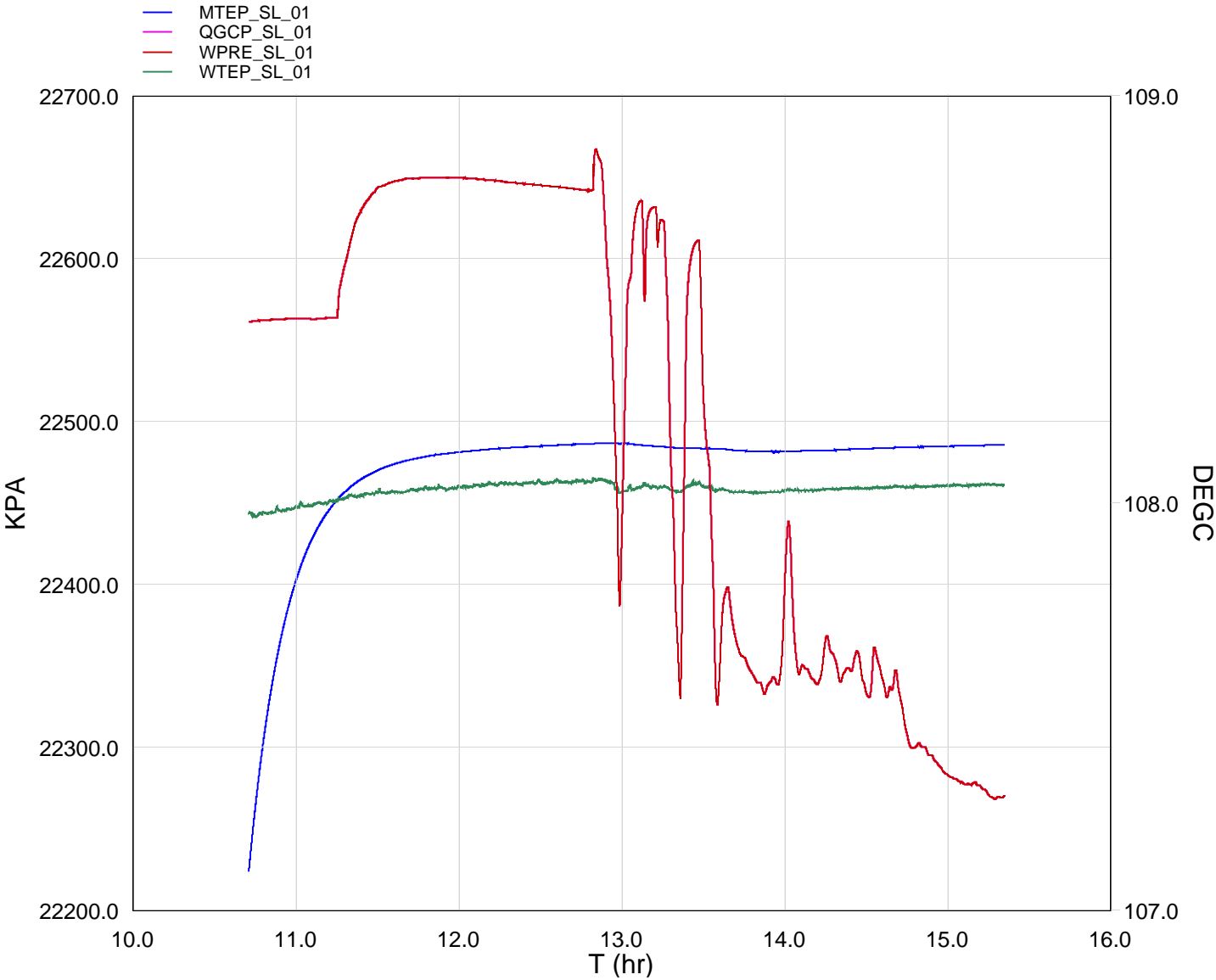
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		MCM					
RST-C	14C0-302	PSPT-A/B		14C0-302			
Input DLIS Files							
DEFAULT	RST_PSP_026LUP	FN:25	PRODUCER	06-May-2007 15:29	4055.1 M	3890.0 M	
Output DLIS Files							
DEFAULT	RST_PSP_027PUP	FN:26	PRODUCER	06-May-2007 16:08			



Drawdown @ 4050m MDKB

MAXIS Field Log



23400.0000	10.7348	226.3382	3272.3224
23700.0000	10.8182	226.3562	3272.4246
24000.0000	10.9015	226.3688	3272.4900
24300.0000	10.9848	226.3790	3272.5425
24600.0000	11.0682	226.3889	3272.5845
24900.0000	11.1515	226.4008	3272.5640
25200.0000	11.2348	226.4099	3272.6065
25500.0000	11.3182	226.4249	3278.3707
25800.0000	11.4015	226.4350	3282.2230
26100.0000	11.4848	226.4460	3283.8963
26400.0000	11.5682	226.4503	3284.5879
26700.0000	11.6515	226.4499	3284.9236
27000.0000	11.7348	226.4570	3285.0270
27300.0000	11.8182	226.4641	3285.1159
27600.0000	11.9015	226.4687	3285.1252
27900.0000	11.9848	226.4695	3285.0896
28200.0000	12.0682	226.4727	3285.0367
28500.0000	12.1515	226.4820	3284.9324
28800.0000	12.2348	226.4799	3284.8291
29100.0000	12.3182	226.4870	3284.6836
29400.0000	12.4015	226.4879	3284.5615
29700.0000	12.4848	226.5003	3284.4467
30000.0000	12.5682	226.4911	3284.3274
30300.0000	12.6515	226.4942	3284.2159
30600.0000	12.7348	226.4998	3284.0654
30900.0000	12.8182	226.4968	3283.9896
31200.0000	12.9015	226.5014	3279.7088
31500.0000	12.9848	226.4468	3247.2876
31800.0000	13.0682	226.4655	3279.7432
32100.0000	13.1515	226.4812	3280.4152
32400.0000	13.2348	226.4761	3281.1858
32700.0000	13.3182	226.4561	3254.3323
33000.0000	13.4015	226.4786	3274.3652
33300.0000	13.4848	226.4849	3274.9241
33600.0000	13.5682	226.4555	3244.4192
33900.0000	13.6515	226.4566	3248.6559
34200.0000	13.7348	226.4531	3242.5378
34500.0000	13.8182	226.4495	3240.4745
34800.0000	13.9015	226.4516	3240.0690
35100.0000	13.9848	226.4567	3243.0964
35400.0000	14.0682	226.4573	3242.6957
35700.0000	14.1515	226.4579	3240.9437
36000.0000	14.2348	226.4625	3242.0936
36300.0000	14.3182	226.4641	3241.7387
36600.0000	14.4015	226.4656	3241.2625
36900.0000	14.4848	226.4670	3240.1747
37200.0000	14.5682	226.4721	3242.2825
37500.0000	14.6515	226.4731	3239.5782
37800.0000	14.7348	226.4735	3236.6082
38100.0000	14.8182	226.4743	3234.7061
38400.0000	14.9015	226.4761	3233.6805
38700.0000	14.9848	226.4792	3232.0462
39000.0000	15.0682	226.4824	3231.3856
39300.0000	15.1515	226.4809	3231.1072
39600.0000	15.2348	226.4856	3230.5299
39900.0000	15.3182	226.4822	3229.9411



SHUT-IN Carbon Oxygen Passes
3956m to 3934m MDKB

MAXIS Field Log

RQL Passes Summary

RQL Software Version Number 2.00

Pass # 1 (RQL_CS_041_1):

Pass # 2 (RQL_CS_042_1):

Pass # 3 (RQL_CS_043_1):

RQL Quality Flags Raised (Data)

- Near Data Error: No good C,O left to stack.
- Near Data Error: In computing C/O ratio.
- Near Data Caution: Discarded invalid C,O.
- Far Data Error: No good C,O left to stack.
- Far Data Error: In computing C/O ratio.
- Far Data Caution: Discarded invalid C,O.

Company: Esso Australia Pty Ltd. Well: A-10a

Output DLIS Files

DEFAULT RST_PSP_051PUP FN:50 PRODUCER 07-May-2007 06:32

OP System Version: 14C0-302
MCM

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

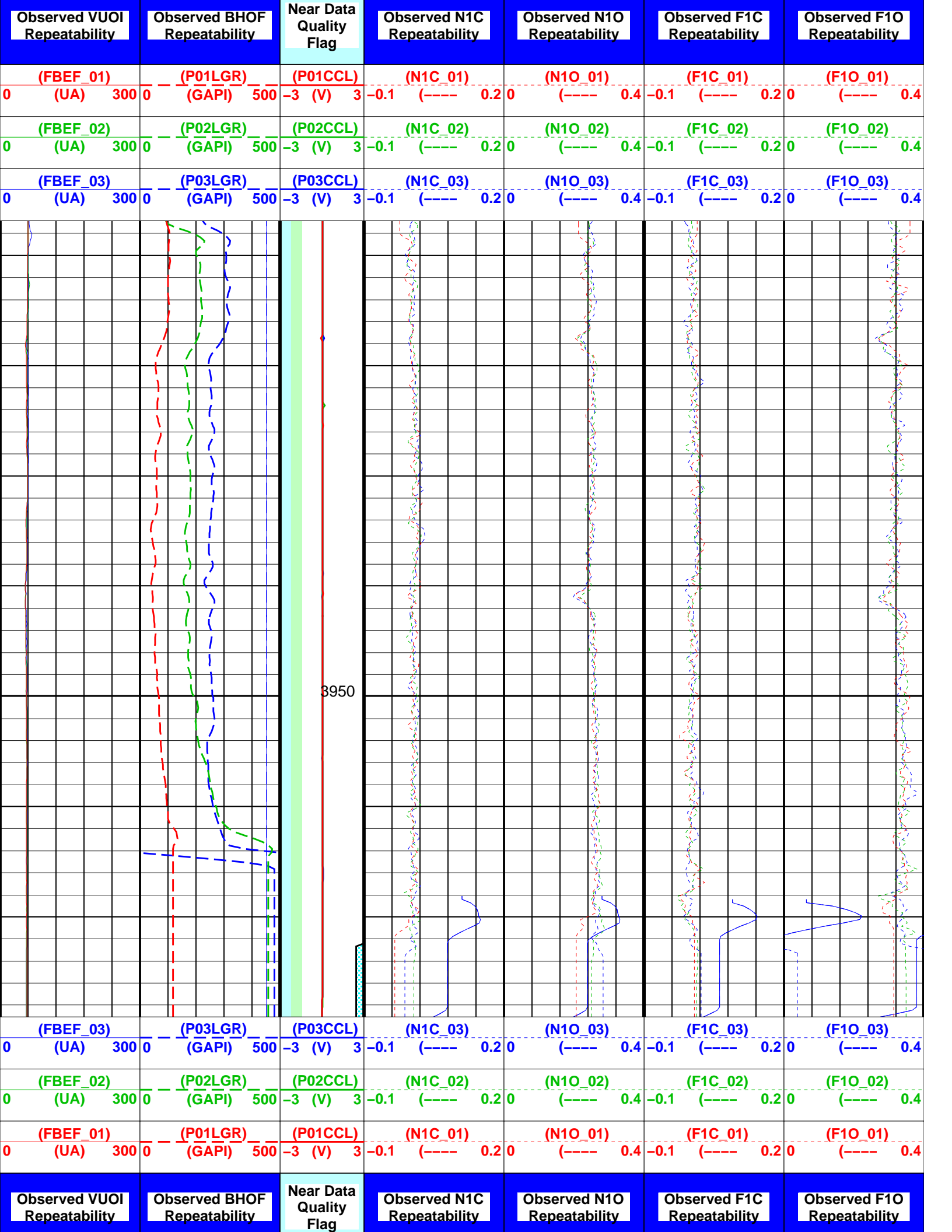
Squeezed
Perfo
Zone

Tool Data
Quality
Flag

Far Data
Quality
Flag

Interpretat
ion Zone

Perfo
Zone



	Perfo Zone	
	Interpretation Zone	
	Far Data Quality Flag	
	Tool Data Quality Flag	
	Squeezed Perfo Zone	

Parameters

DLIS Name	Description	Value	
RST-C: Reservoir Saturation Pro Tool C			
BHS	Borehole Status	CASED	
CSID	Casing Size I.D.	6.875	IN
PSPT-A/B: Production Services Logging Platform			
BHS	Borehole Status	CASED	
CSID	Casing Size I.D.	6.875	IN
BORDYN: BorDyn (Well Test Validation)			
BHS	Borehole Status	CASED	
CSID	Casing Size I.D.	6.875	IN
RQL: RSTPro Reservoir Quick Look			
ADFC_RQL	RQL Adaptive Filter Control	FILTER_ON	
ALFL_RQL	RQL Alpha Filter Length	11_LEVELS	
BCDV_RQL	RQL Borehole Oil Carbon Density Value	0.731495	
BGAS_RQL	RQL Borehole Gas Present	NO_GAS	
BHOF_RQL	RQL Oil Holdup	0	
BHOF_SIG_RQL	RQL Oil Holdup Uncertainty	0.01	
BHS	Borehole Status	CASED	
CARB_RQL	RQL Carbonate Fraction	0	
CCLS	CCL Selector	CCLC	
CSID	Casing Size I.D.	6.875	IN
FCDV_RQL	RQL Formation Oil Carbon Density Value	0.731495	
FCHD	Cased Hole Diameter Selector	PARAMETER	
FOFF_RQL	RQL Far Inelastic Carbon/Oxygen Ratio Offset	0	
LSRC_RQL	RQL Lithology Model Source	RQL_Lith_Indicator	
NOFF_RQL	RQL Near Inelastic Carbon/Oxygen Ratio Offset	0	
PCVS	CVEL Selector	CVEL	
PGRS	GR Selector	GR	
PGS	Pressure Gauge Selector	WPRE	
PING_RQL	RQL Poro Indicator Gain	1	
PINO_RQL	RQL Poro Indicator Offset	0	
PSRC_RQL	RQL Porosity Model Source	RQL_Poro_Indicator	
PWHS	PLQL Water HoldUp Selector	NONE	
RHOS	Fluid Density Selector	WFDE	
SMFL_RQL	RQL Smoothing Filter Length	05_LEVELS	
SMSA_RQL	RQL Algorithm for Stacking Sigma Mode Data	WEIGHTED	
SPIS	Spinner Selector	SPIN	
TMPS	Temperature Selector	WTEP	
TPHI_RQL	RQL Porosity	0.25	
TPOS_RQL	RQL Tool Position in the Borehole	ECCENTERED	
VUOI_SIGT_RQL	RQL Oil Volume Target Uncertainty	-50000	
System and Miscellaneous			
BS	Bit Size	9.875	IN
CSIZ	Current Casing Size	7.625	IN
CWEI	Casing Weight	29.70	LB/F
DO	Depth Offset for Playback	0.2	M
PP	Playback Processing	NORMAL	

Format: RQL_ICStack Vertical Scale: 1:200 Graphics File Created: 07-May-2007 06:32

OP System Version: 14C0-302
MCM

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

Output DLIS Files				
DEFAULT	RST_PSP_051PUP	FN:50	PRODUCER	07-May-2007 06:32

Static Sigma Pass # 1

MAXIS Field Log

Well: A-10a

Input DLIS Files							
DEFAULT	RST_PSP_018LUP	FN:17	PRODUCER	06-May-2007 06:25	4063.3 M	3883.5 M	
Output DLIS Files							
DEFAULT	RST_PSP_023PUP	FN:22	PRODUCER	06-May-2007 10:37	4064.4 M	3879.5 M	

Output DLIS Files

DEFAULT	RST PSP 023PUP	FN:22	PRODUCER	06-May-2007 10:37	4064.4 M	3879.5 M
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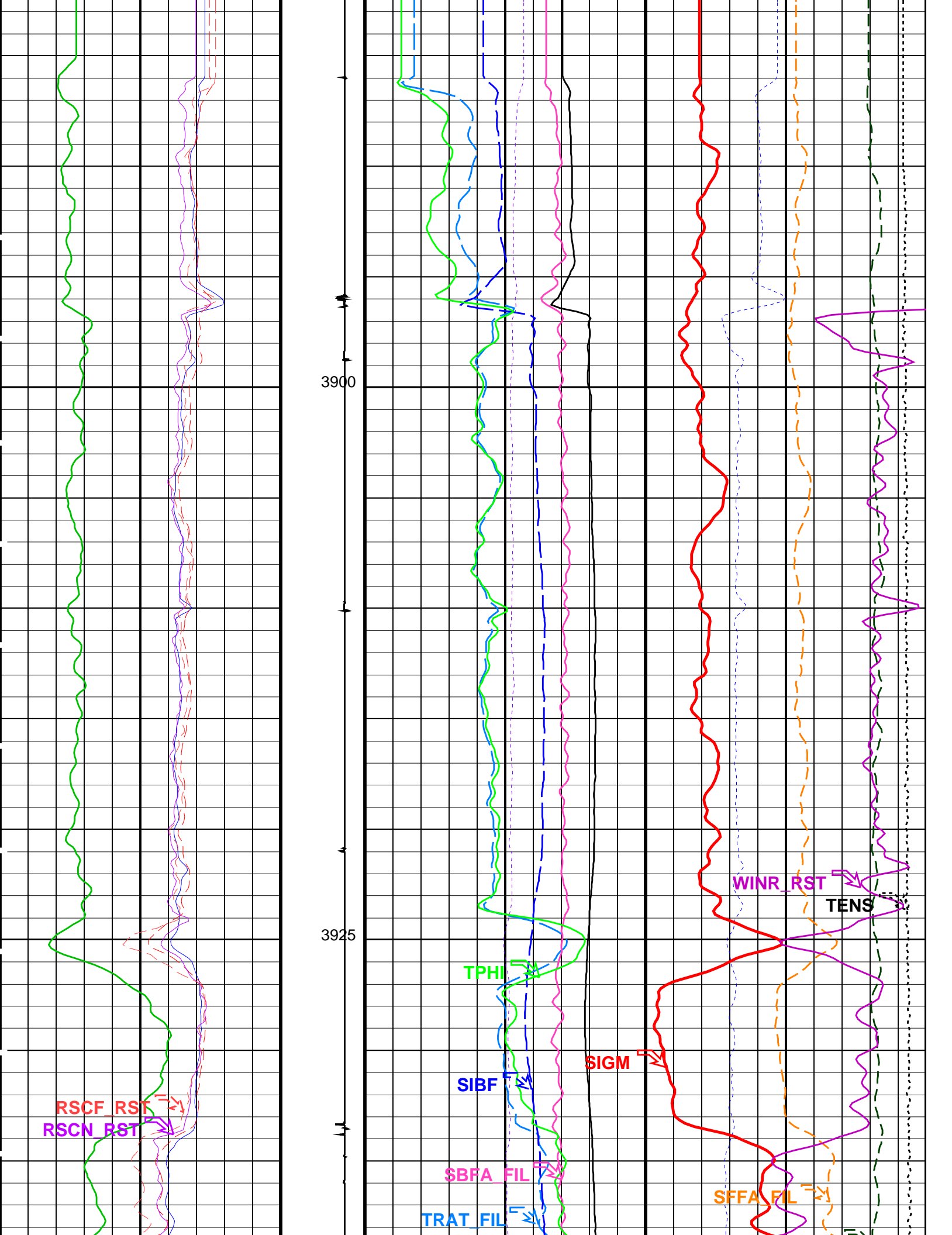
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RST-C	14C0-302	PSPT-A/B	14C0-302	

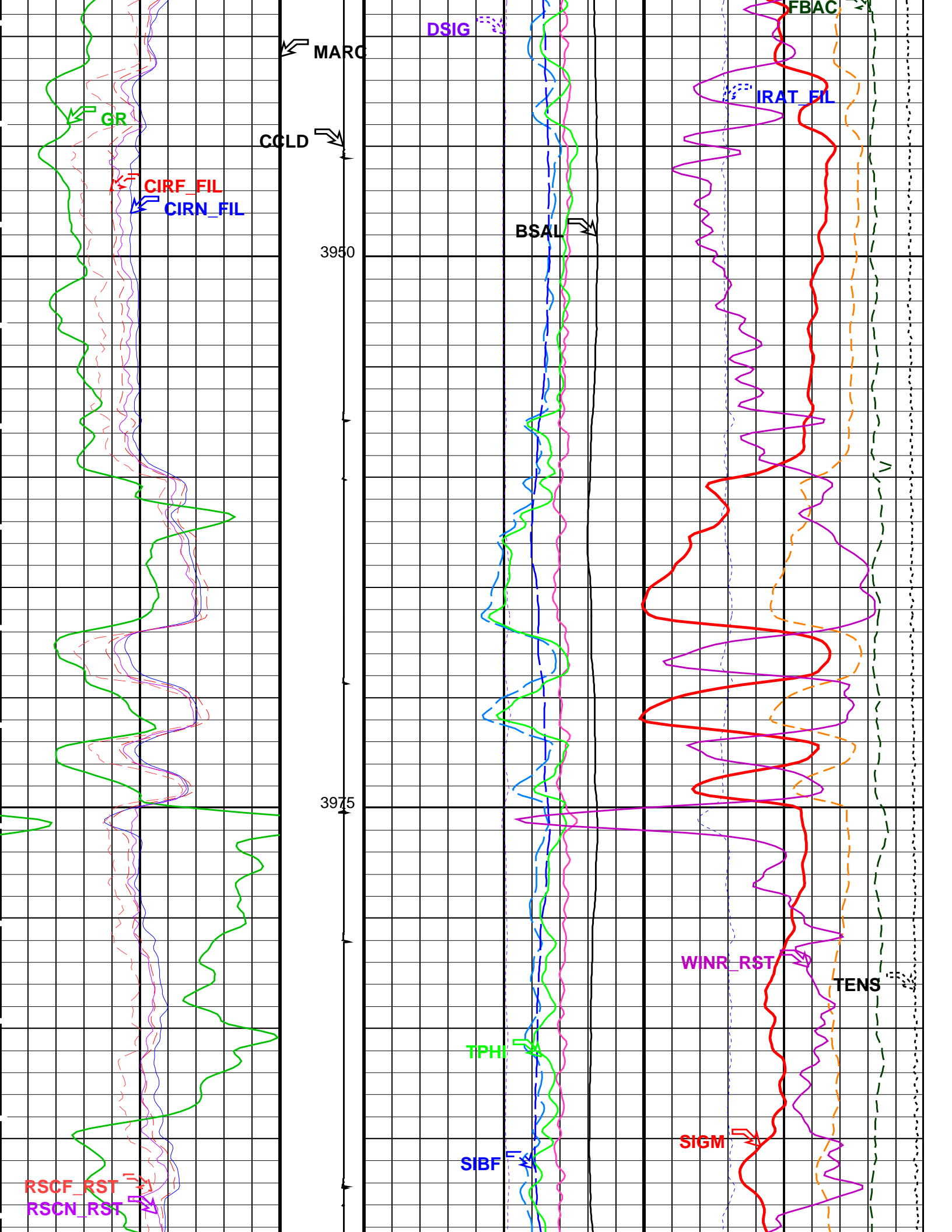
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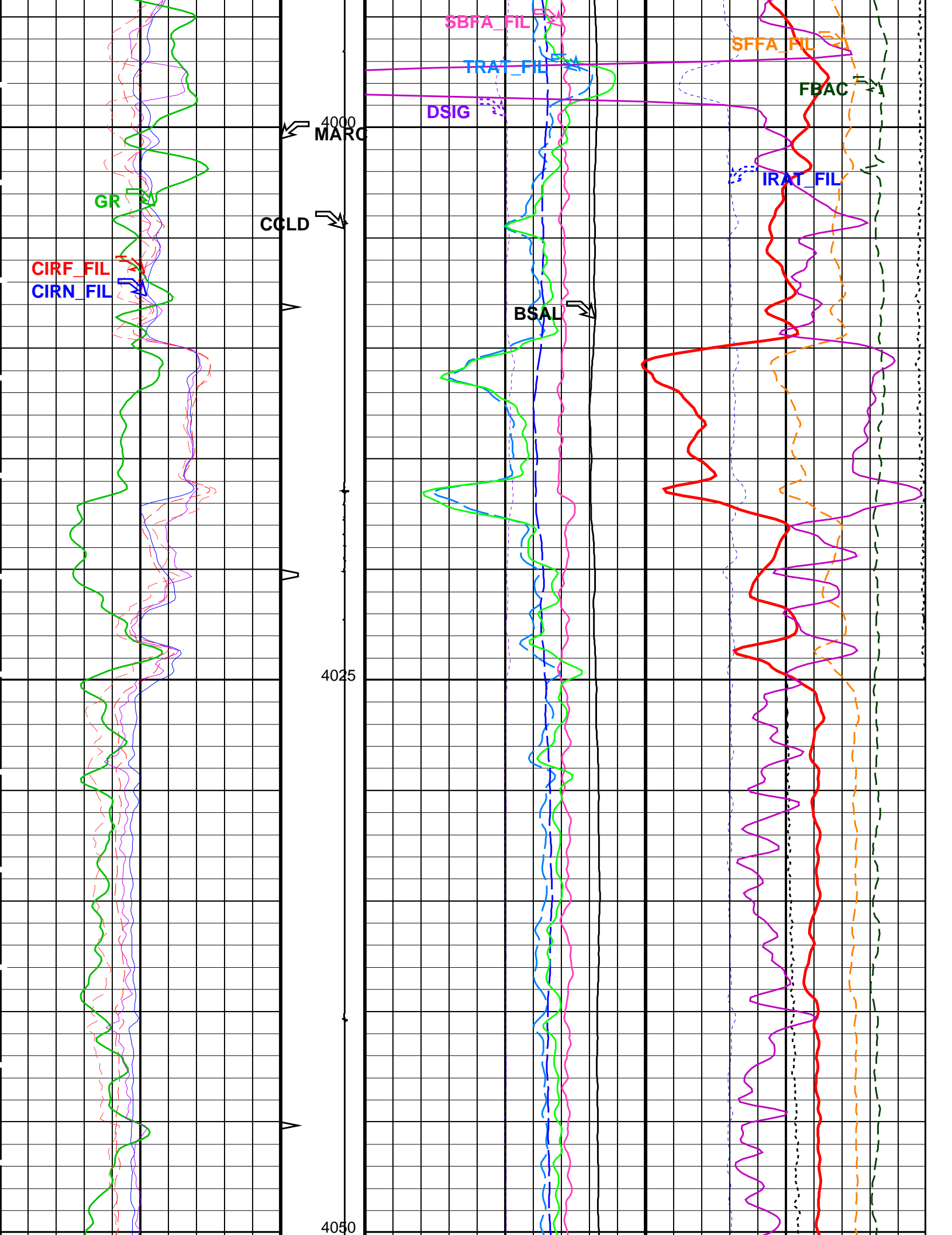
PIP SUMMARY

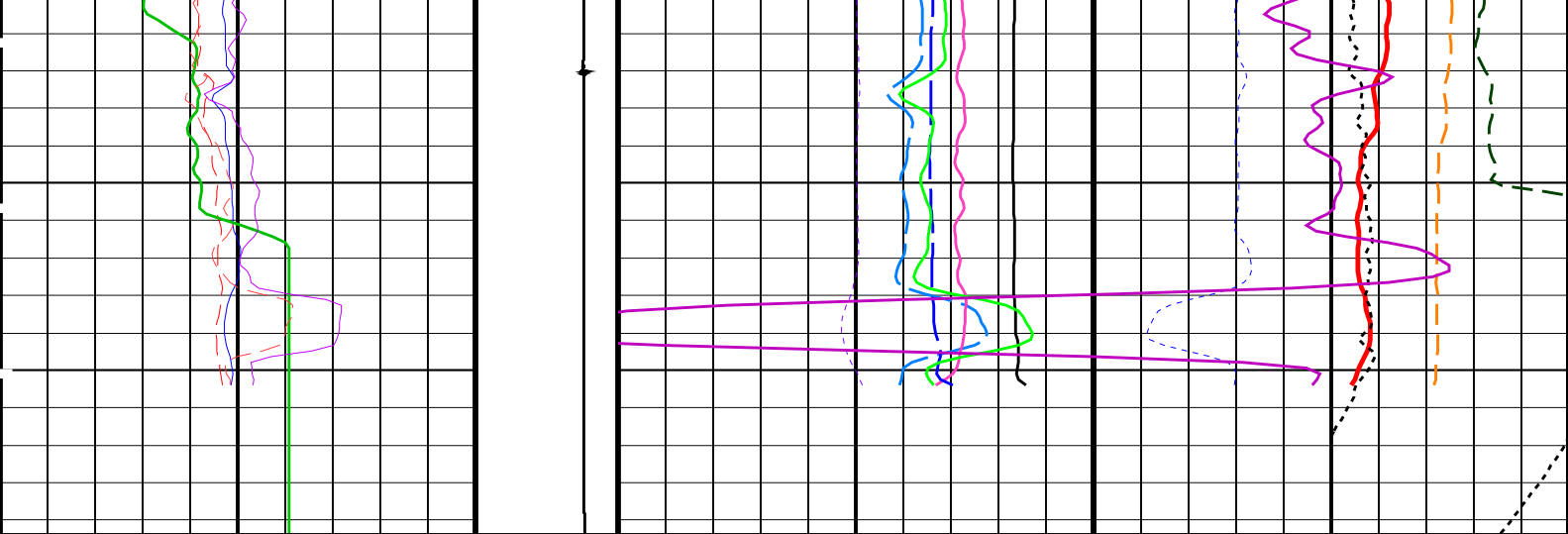
Time Mark Every 60 S

			<div>RST Sigma (SIGM)</div> <div>60 (CU) 0</div>		
			<div>RST Weighted Inelastic Ratio (WINR_RST)</div> <div>0.4 (----) 0</div>		
			<div>RST Porosity (TPHI)</div> <div>0.6 (V/V) 0</div>		
<div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45 (----) 0</div>			<div>RST Sigma Borehole Fluid (SIBF)</div> <div>100 (CU) 0</div>		
<div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45 (----) 0</div>			<div>Sigma Borehole Far Apparent (SBFA_FIL)</div> <div>150 (CU) 0</div>		
			<div>Tension (TENS)</div> <div>0 (LBF) 3000</div>		
<div>RST Capture to Inelastic Ratio Far (CIRF_FIL)</div> <div>5 (----) 0</div>			<div>RST Capture Ratio (TRAT_FIL)</div> <div>1.5 (----) 0.5</div>		
			<div>Sigma Formation Far Apparent (SFFA_FIL)</div> <div>60 (CU) 0</div>		
<div>RST Capture to Inelastic Ratio Near (CIRN_FIL)</div> <div>2.5 (----) 0</div>			<div>Minitron Arc Detection (MARC)</div> <div>0 (----) 5</div>		
			<div>RST Sigma Difference (DSIG)</div> <div>-30 (CU) 30</div>		
			<div>MCS Far Background (filtered) (FBAC)</div> <div>0 (CPS) 5000</div>		
<div>Gamma Ray (GR)</div> <div>0 (GAPI) 150</div>			<div>Discriminat ed CCL (CCLD)</div> <div>3 (V) -1</div>		
			<div>RST Borehole Salinity (BSAL)</div> <div>450 (PPK) -50</div>		
			<div>RST Inelastic Ratio (IRAT_FIL)</div> <div>0.75 (----) 0</div>		









Gamma Ray (GR) (GAPI)	Discriminat ed CCL (CCLD) (V)	RST Borehole Salinity (BSAL) (PPK)	RST Inelastic Ratio (IRAT_FIL) (----)
0 150	3 -1	450 -50	0.75 0
RST Capture to Inelastic Ratio Near (CIRN_FIL)	Minitron Arc Detection (MARC) (----)	RST Sigma Difference (DSIG) (CU)	MCS Far Background (filtered) (FBAC) (CPS)
2.5 0	0 5	-30 30	0 5000
RST Capture to Inelastic Ratio Far (CIRF_FIL)		RST Capture Ratio (TRAT_FIL) (----)	Sigma Formation Far Apparent (SFFA_FIL) (CU)
5 0		1.5 0.5	60 0
RST Near Effective Capture CR (RSCN_RST)		Sigma Borehole Far Apparent (SBFA_FIL) (CU)	Tension (TENS) (LBF)
45 0		150 0	
RST Far Effective Capture CR (RSCF_RST)		RST Sigma Borehole Fluid (SIBF) (CU)	
45 0		100 0	
		RST Porosity (TPHI) (V/V)	
		0.6 0	
		RST Weighted Inelastic Ratio (WINR_RST) (----)	0 3000
		0.4 0	
		RST Sigma (SIGM) (CU)	
		60 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-A/B: Production Services Logging Platform		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
POL: RSTPro Reservoir Quick-Look		

BHS	RQL: RSTPro Reservoir Quick Look	Borehole Status	CASED
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE
	System and Miscellaneous		
BS		Bit Size	9.875
BSAL		Borehole Salinity	−50000.00
CSIZ		Current Casing Size	7.625
CWEI		Casing Weight	29.70
DO		Depth Offset for Playback	1.0
PP		Playback Processing	NORMAL


Format: RST_SIG_ANSW

Vertical Scale: 1:200

Graphics File Created: 06-May-2007 10:37

OP System Version: 14C0-302			
MCM			
RST-C	14C0-302	PSPT-A/B	14C0-302

Input DLIS Files						
DEFAULT	RST_PSP_018LUP	FN:17	PRODUCER	06-May-2007 06:25	4063.3 M	3883.5 M
Output DLIS Files						
DEFAULT	RST_PSP_023PUP	FN:22	PRODUCER	06-May-2007 10:37		



Gamma Ray Pass
(Minitron Off)

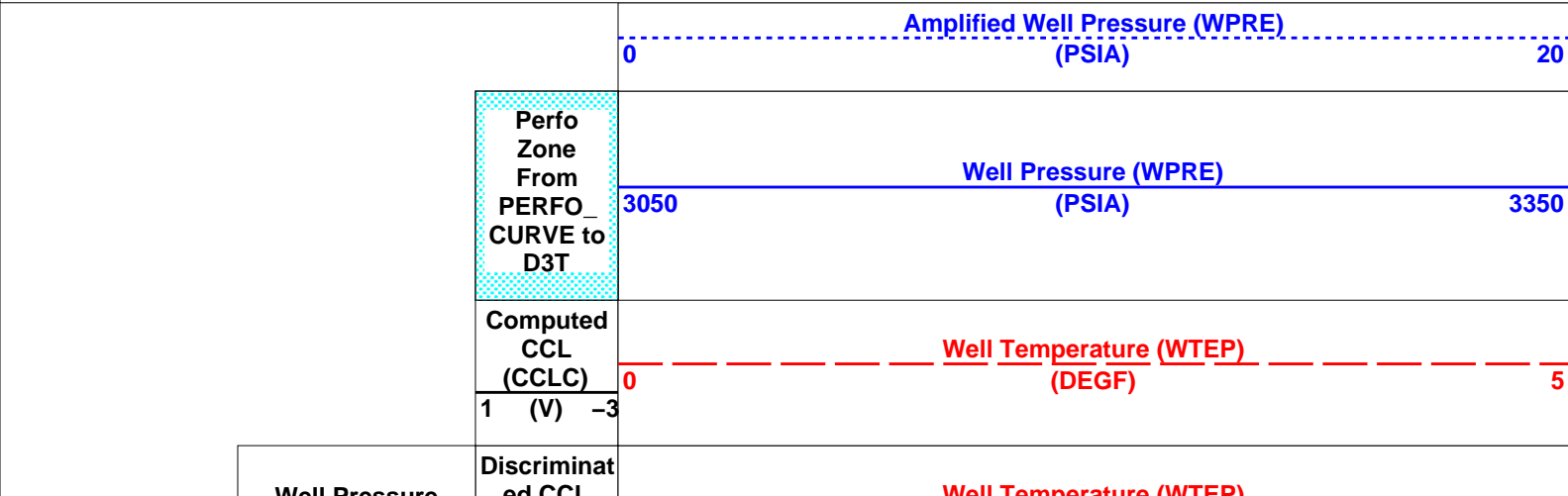
MAXIS Field Log

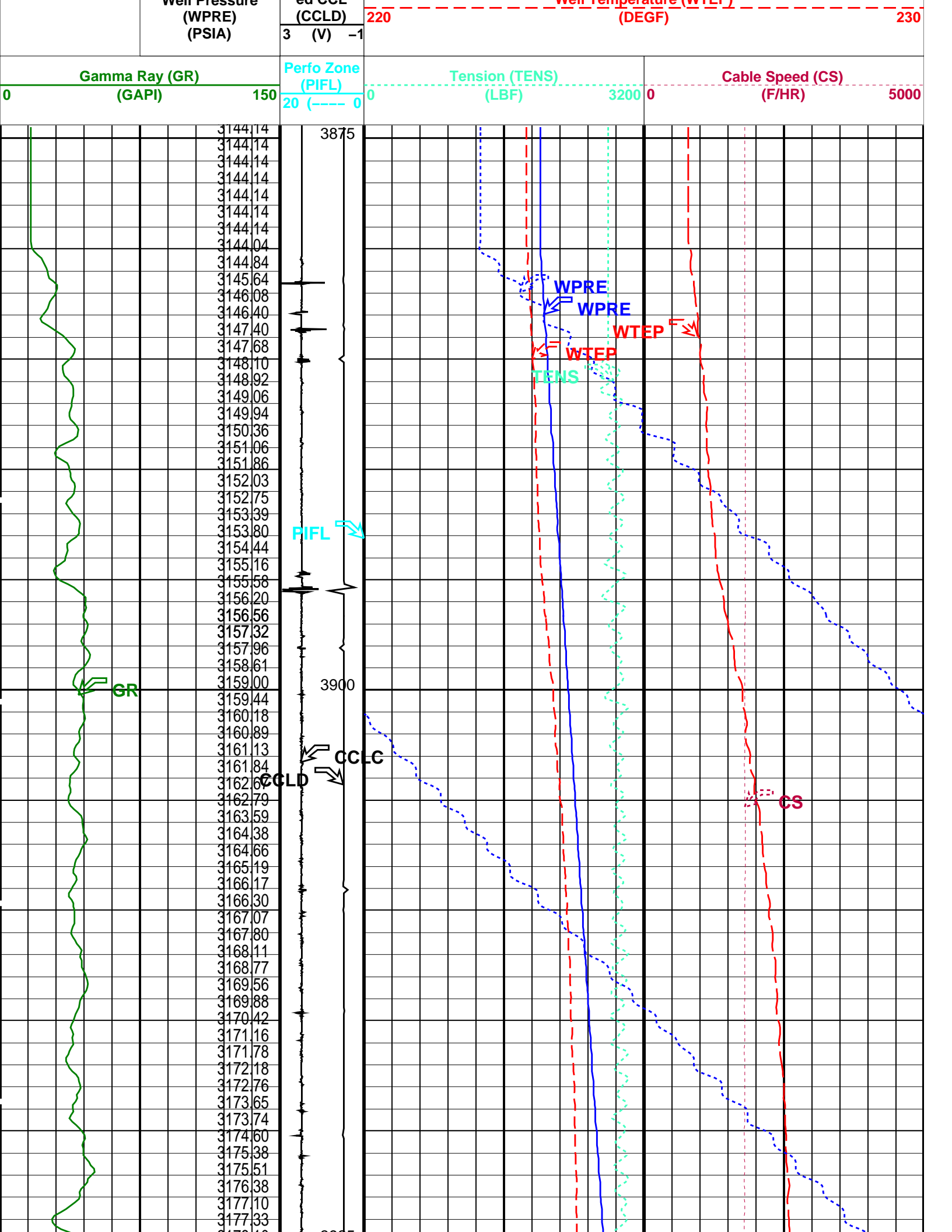
Input DLIS Files						
DEFAULT	RST_PSP_015LUP	FN:14	PRODUCER	06-May-2007 05:45	4067.4 M	3879.2 M
Output DLIS Files						
DEFAULT	RST_PSP_022PUP	FN:21	PRODUCER	06-May-2007 10:35	4067.6 M	3874.3 M

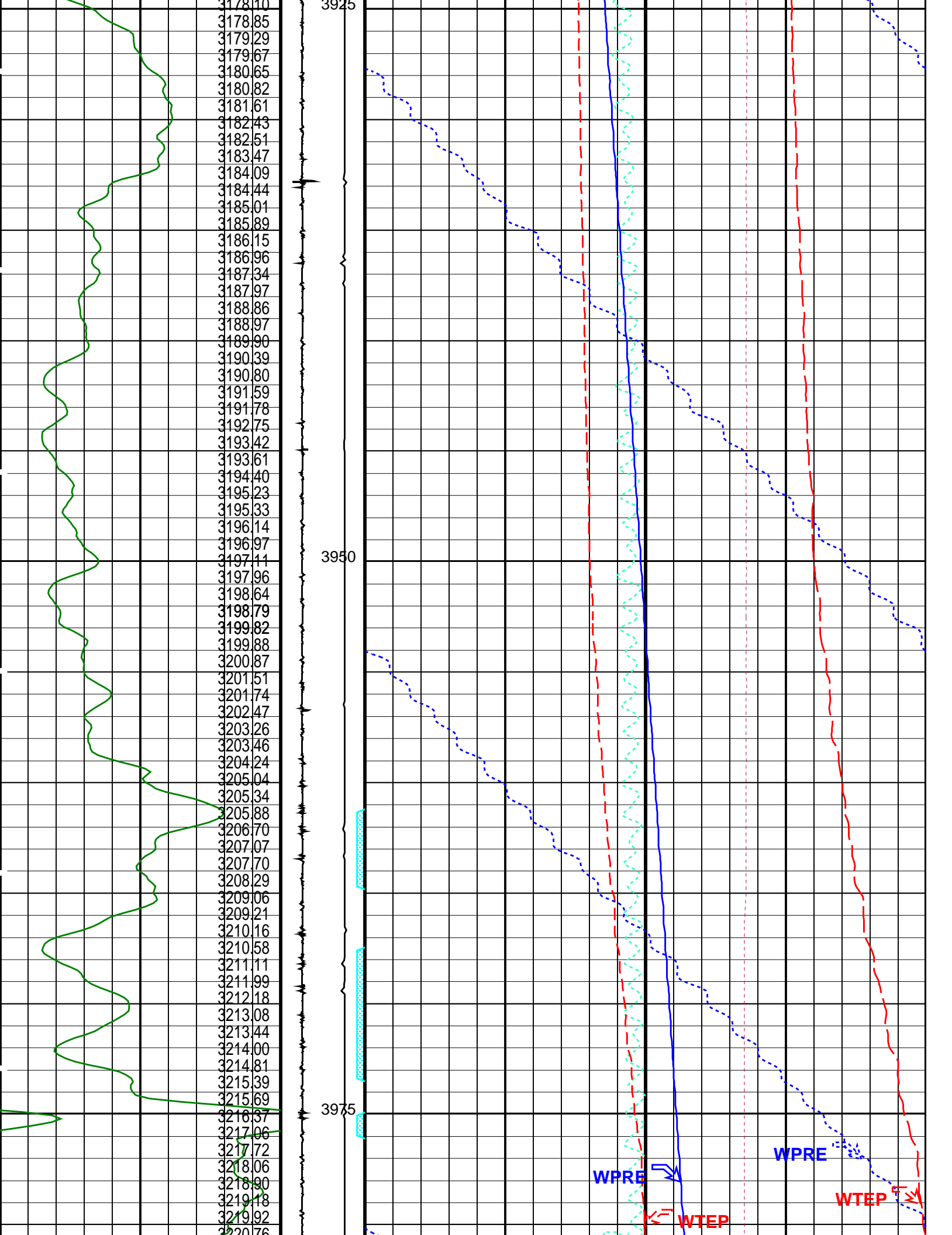
OP System Version: 14C0-302			
MCM			
RST-C	14C0-302	PSPT-A/B	14C0-302

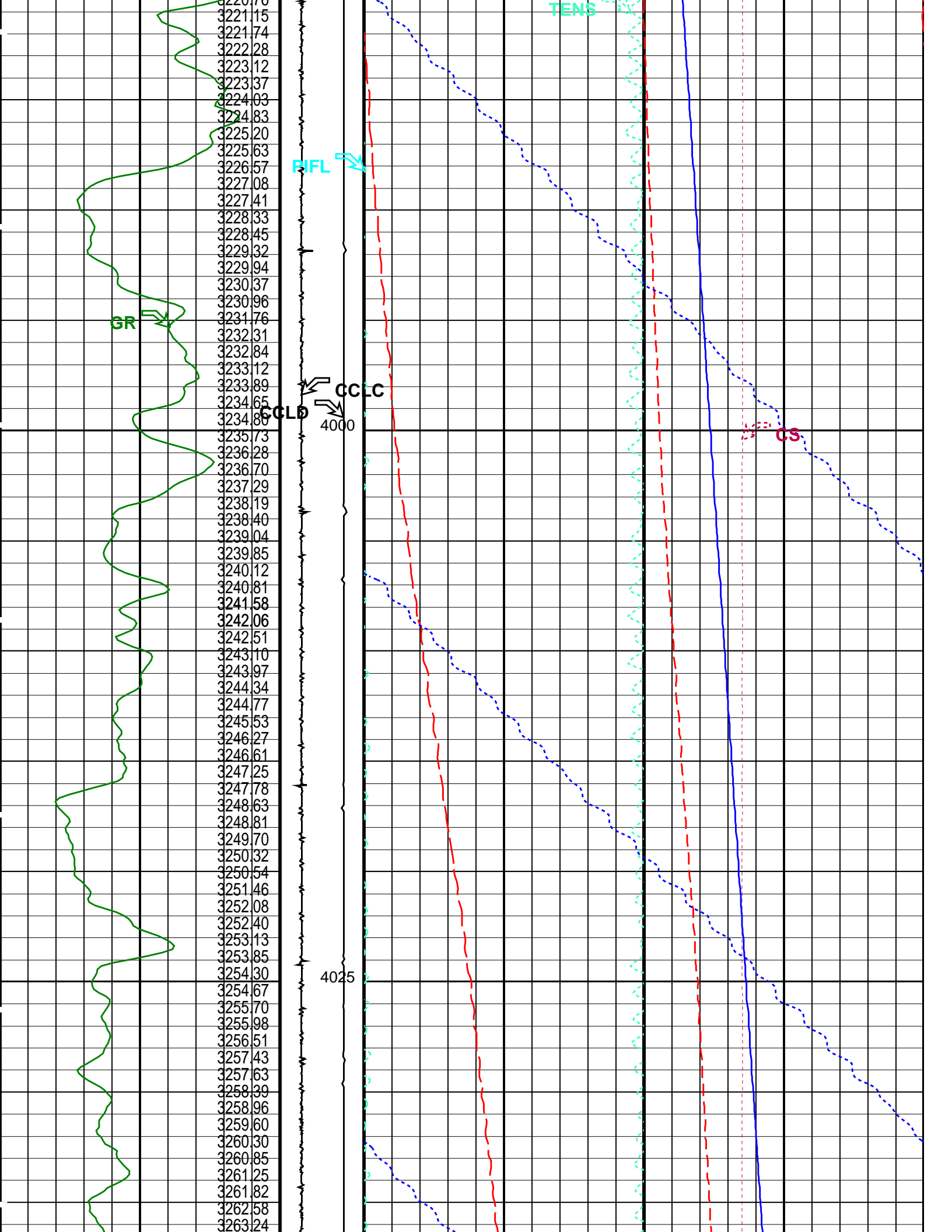
PIP SUMMARY

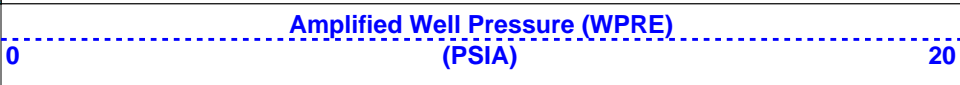
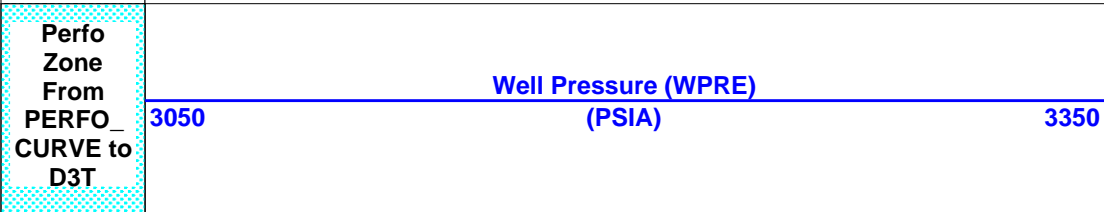
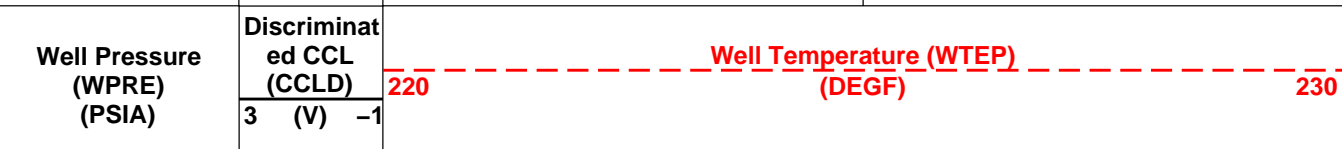
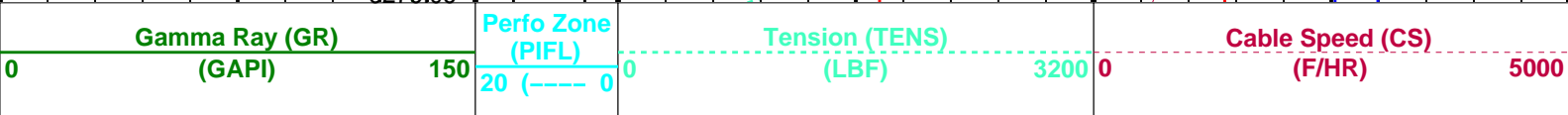
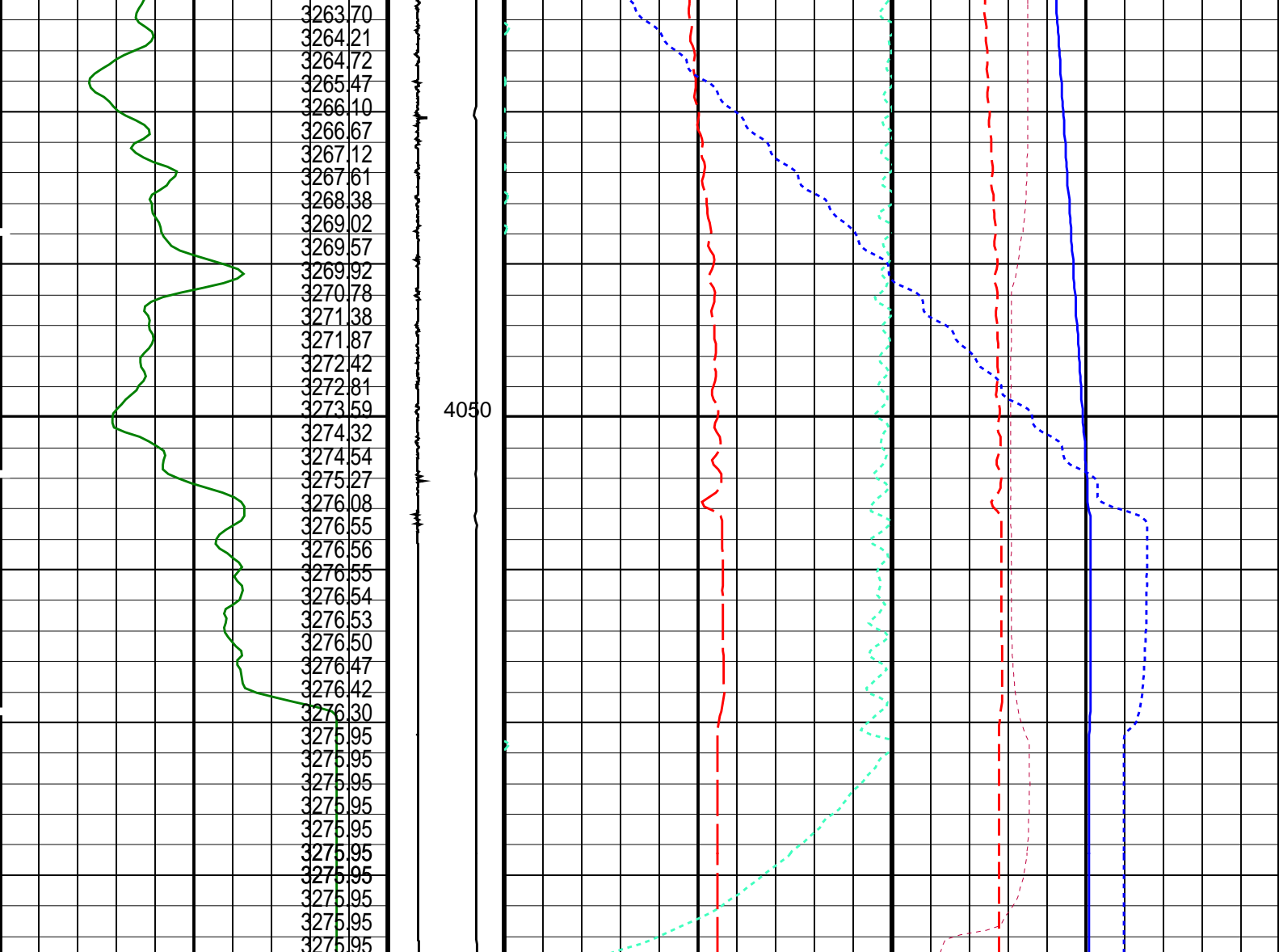
Time Mark Every 60 S











PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1_1 Vertical Scale: 1:200 Graphics File Created: 06-May-2007 10:35

Parameters							
DLIS Name		Description			Value		
DO PP	System and Miscellaneous						
	Depth Offset for Playback		0.2		M		
	Playback Processing		NORMAL				
Input DLIS Files							
DEFAULT	RST_PSP_015LUP	FN:14	PRODUCER	06-May-2007 05:45	4067.4 M	3879.2 M	
Output DLIS Files							
DEFAULT	RST_PSP_022PUP	FN:21	PRODUCER	06-May-2007 10:35			

Company:Esso Australia Pty Ltd.

Schlumberger

Well:A-10a

Field:Cobia

Rig:Crane / Prod # 4

Country:Australia

RST - C

Static & Flowing

Sigma - C/O Survey