

Rig: Crane / Prod 4

Company: Esso Australia Pty Ltd.

Well: A-28B

Field: Fortescue

Rig: Crane / Prod 4

Country: Australia

Field: Fortescue

Location: Gippsland

Well: A-28B

Company: Esso Australia Pty Ltd.

RST-C
Static & Flowing
Sigma Survey

LOCATION

Gippsland
Basin
Bass Strait

Elev.: K.B. 42.29 m
G.L. -69 m
D.F. 42.29 m

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

Elev.: 0 m
42.3 m above Perm. Datum

State: Victoria
Max. Well Deviation
64 deg

Longitude 148°16'36.62"E
Latitude 038°24'31.39"S

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

Run 1

PVT DATA

Oil Density

Water Salinity

Gas Gravity

Bo

Bw

1/Bg

Bubble Point Pressure

Bubble Point Temperature

Solution GOR

Maximum Deviation

CEMENTING DATA

Primary/Squeeze

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

[illegible]

DEPTH SUMMARY LISTING	
Date Created: 9-JUN-2008 15:33:25	

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:	208196
Calibration Date:	4-Jan-2007	Calibration Date:	10-Jun-2008	Length:	7010.10 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1174		
Calibration Cable Type:	2-32ZT	Calibration Gain:	0.95	Conveyance Method:	Wireline
Wheel Correction 1:	-2	Calibration Offset:	-137.00	Rig Type:	Offshore_Fixed
Wheel Correction 2:	-4				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	ExxonMobil Solar Composite Log

Depth Control Remarks

1. IDW used as primary depth control
2. Z-chart used as secondary backup

<p style="text-align: center;">DISCLAIMER</p> <p>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.</p>

OTHER SERVICES1
OS1: None

REMARKS: RUN NUMBER 1
Log correlated to ExxonMobil Petrophysical Analysis composite supplied

with logging program.
Maximum well deviation = 64 degree's at 1595m MDKB.
RST-C Sigma survey from HUD 3926m to 3785m MDKB.
Pass # 1 was logged with the well shut-in,passes 2 and 3 were
flowing passes.
SBHP = 3166 psia,SBHT = 222 degf.
FBHP = 2995 psia,FBHT = 222 degf.

Log correlated to ExxonMobil Petrophysical Analysis composite supplied with logging program

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Maximum well deviation = 64 degree's at 1595m MDKB.

RST-C Sigma survey from HUD 3926m to 3785m MDKB.
Pass # 1 was logged with the well shut-in, passes 2 and 3 were

flowing passes.
SPUR - 2166 pcia SPUR - 2222 deaf

SBHP = 3166 psia, SBHT = 222 degf.
FBHP = 2995 psia, FBHT = 222 degf.

All three passes were played back twice,first with a casing weight of 26 lbs/ft.

Then from the tubing shoe to 3775m MDKB with a combined tubing casing weight of 35.2 lbs/ft.

Crew : Jake Annear & Peter Lawrence.

RUN 1				
SERVICE ORDER #:		AUSL08509122		
PROGRAM VERSION:		15C0-309		
FLUID LEVEL:		520 m		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START

EQUIPMENT DESCRIPTION

RUN 1				
SURFACE EQUIPMENT				
WITM-A 3576 PSC_16MHZ 827				
DOWNHOLE EQUIPMENT				
<div></div>				
AH-SWBS-B 788				13.45
AH-SWBS-B 789				12.66
AH-SWBS-B 787				11.98
AH-SWBS-B 786				11.28
AH-SWBS-B 785				10.58
MH-SWHS-A 759	Detail MT TelStatus CTEM	<div></div>	9.88	
			9.54	9.54
PSC-A 827 PSPT-B 827 PSTC 827 PBMS-B 827 CQG_F Mano 827 RTD Thermometer 827 GR 827 CCL 827 PBMS 827	GR	<div></div>	8.41	
	Well_Temp CQG Manom CCL PBMS PSTC	<div></div>	7.48 7.37 7.25 7.02	
RSCH-A 111 RSC-C 132 RSS-A 108 RSXH-A 145 RSX-C 145				7.02

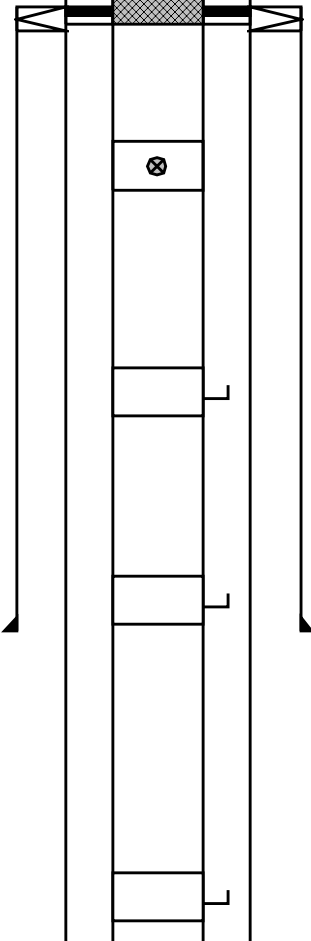
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RSC-A PNG
RSC-A Nea
RSX-A PNG

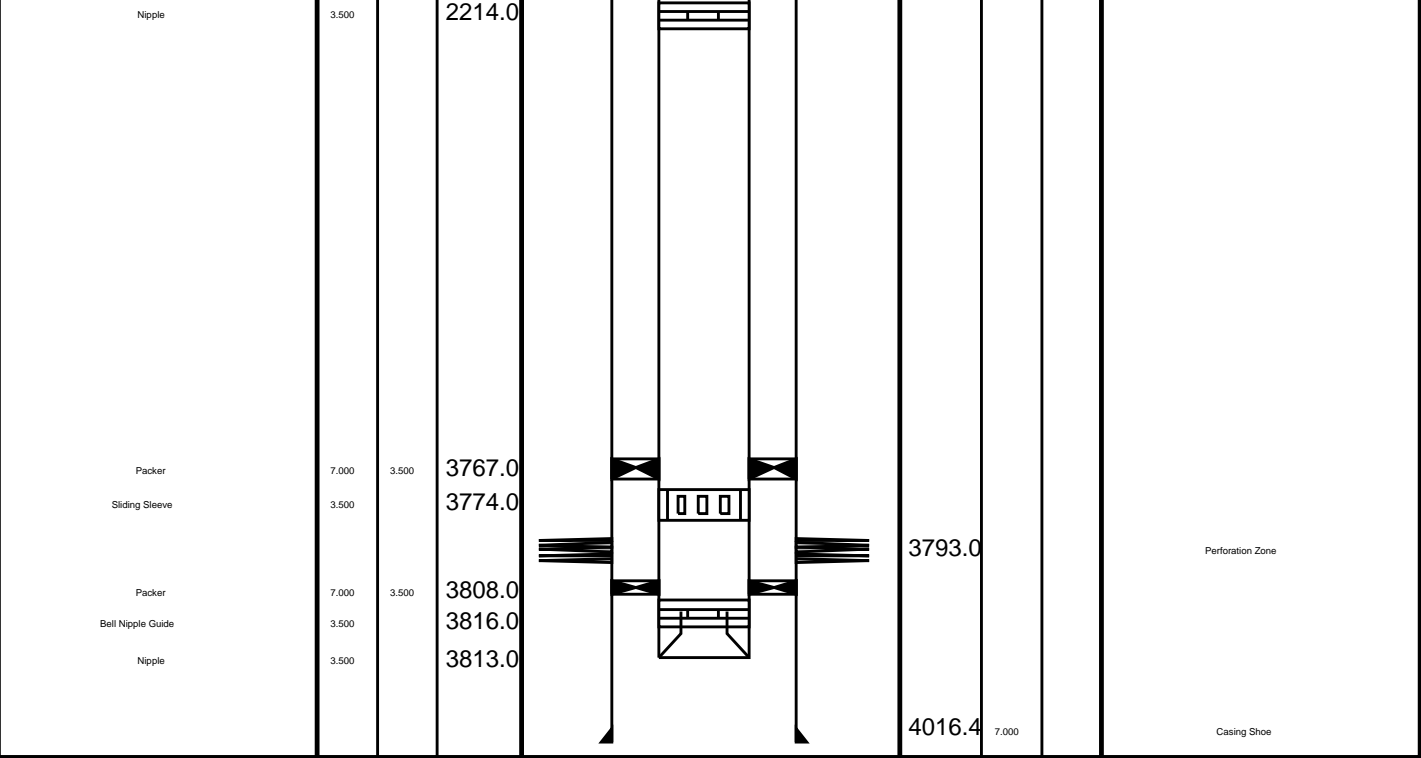
4.24

4.09

Tension HV
TOOL ZERO

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

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Tubing Hanger	3.500 7.000	3.500	20.1 19.0		20.9 20.9	7.000 10.750	7.000	Casing String Liner Hanger
Shutin Valve	3.500		454.0					
Gas Lift Mandrel	3.500		741.0					
Gas Lift Mandrel	3.500		1485.0					
Gas Lift Mandrel	3.500		2197.0		1507.5	10.750		Casing Shoe
Gas Lift Mandrel	3.500							



Company: Esso Australia Pty Ltd.

Well: A-28B

Input DLIS Files

DEFAULT	RST_PSP_011LUP	FN:10	PRODUCER	15-Jun-2008 17:25	3921.6 M	3774.5 M
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Output DLIS Files

DEFAULT	RST_PSP_016PUP	FN:15	PRODUCER	15-Jun-2008 18:32	3824.9 M	3770.1 M
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OP System Version: 15C0-309

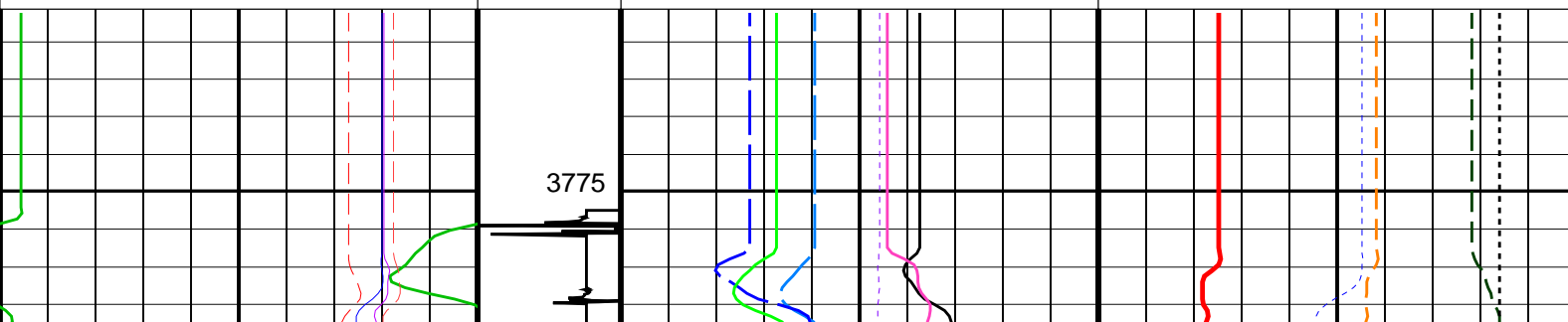
MCM

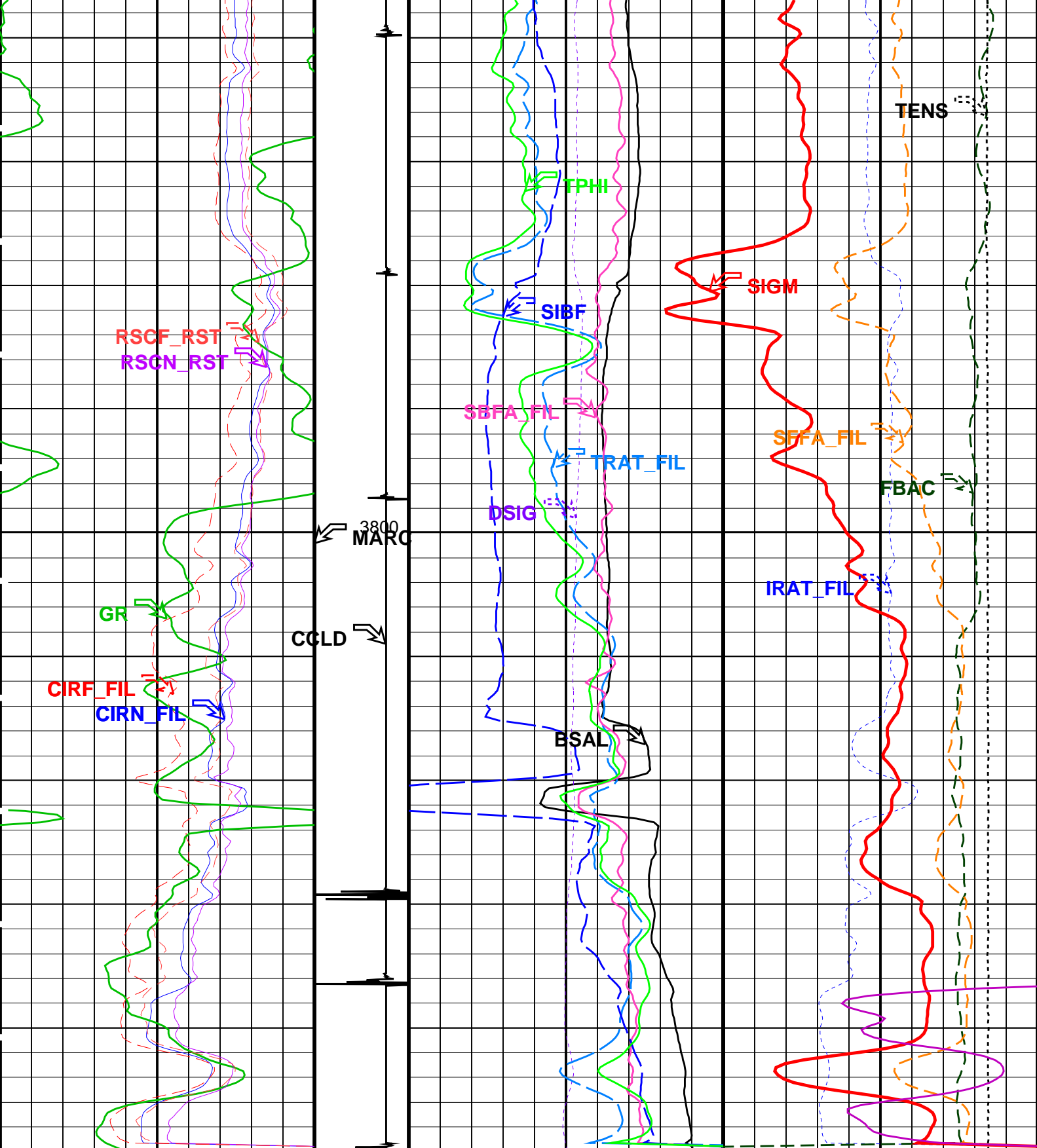
RST-C	SRPC-3546-Q1_2008_OP15	PSPT-B	SRPC-3546-Q1_2008_OP15
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PIP SUMMARY

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





Gamma Ray (GR) (GAPI)	Discriminat ed CCL (CCLD) (V)	RST Borehole Salinity (BSAL) (PPK)	RST Inelastic Ratio (IRAT_FILE) (----
0 150	3 -1	450 -50	0.75 0
RST Capture to Inelastic Ratio Near (CIRN_FILE) (----	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		RST Capture Ratio (TRAT_FILE)	Sigma Formation Far Apparent (SFFA_FILE)

5	(CIRF_FIL)	0	1.5	RST Capture Ratio (IRAT_FIL)	0.5	60	FIL)	0
RST Near Effective Capture CR (RSCN_RST)			Sigma Borehole Far Apparent (SBFA_FIL)			Tension (TENS)		
45	(----	0	150	(CU)	0	0	(LBF)	3000
RST Far Effective Capture CR (RSCF_RST)			RST Sigma Borehole Fluid (SIBF)					
45	(----	0	100	(CU)	0			
			RST Porosity (TPHI)					
			0.6	(V/V)	0			
			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	
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	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	35.20	LB/F
DO	Depth Offset for Playback	0.6	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW	Vertical Scale: 1:200	Graphics File Created: 15-Jun-2008 18:32
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OP System Version: 15C0-309			
MCM			
RST-C	SRPC-3546-Q1_2008_OP15	PSPT-B	SRPC-3546-Q1_2008_OP15

Input DLIS Files						
DEFAULT	RST_PSP_011LUP	FN:10	PRODUCER	15-Jun-2008 17:25	3921.6 M	3774.5 M
Output DLIS Files						
DEFAULT	RST_PSP_016PUP	FN:15	PRODUCER	15-Jun-2008 18:32		

		<div> RST-C Sigma Pass # 2 900 ft/hr Flowing 35.2 lbs/ft </div>
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Company: Esso Australia Pty Ltd.

Well: A-28B

Input DLIS Files

DEFAULT	RST_PSP_010LUP	FN:9	PRODUCER	15-Jun-2008 16:41	3919.0 M	3758.6 M
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Output DLIS Files

DEFAULT	RST_PSP_015PUP	FN:14	PRODUCER	15-Jun-2008 18:31	3824.9 M	3769.9 M
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OP System Version: 15C0-309

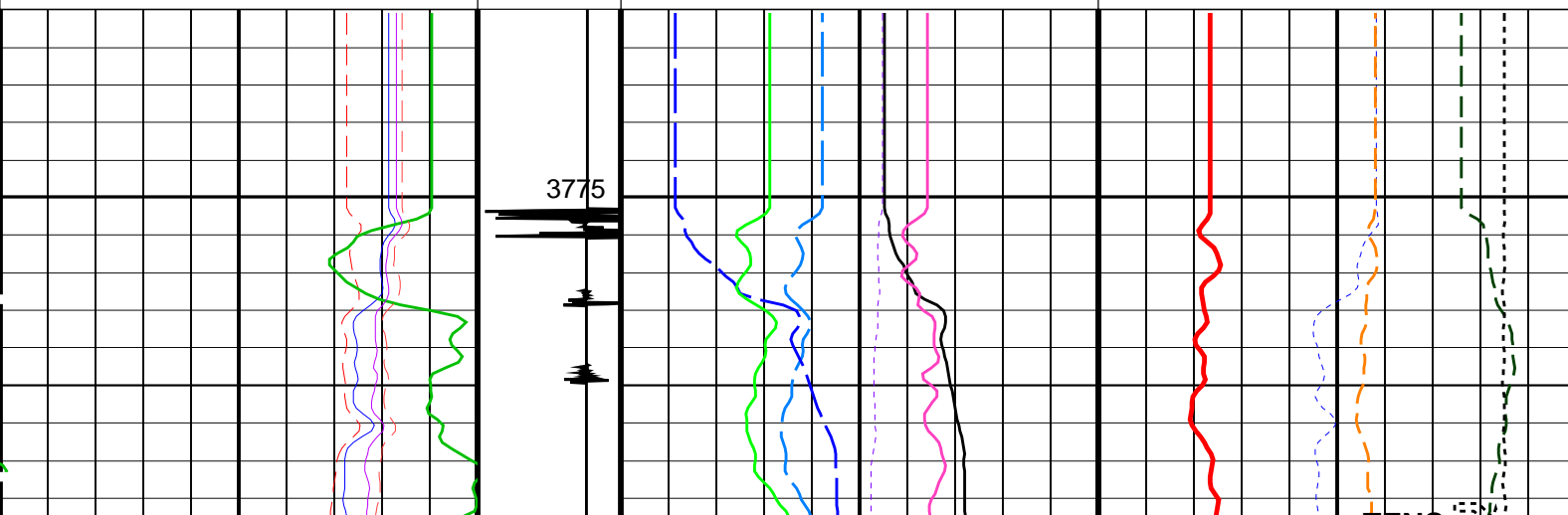
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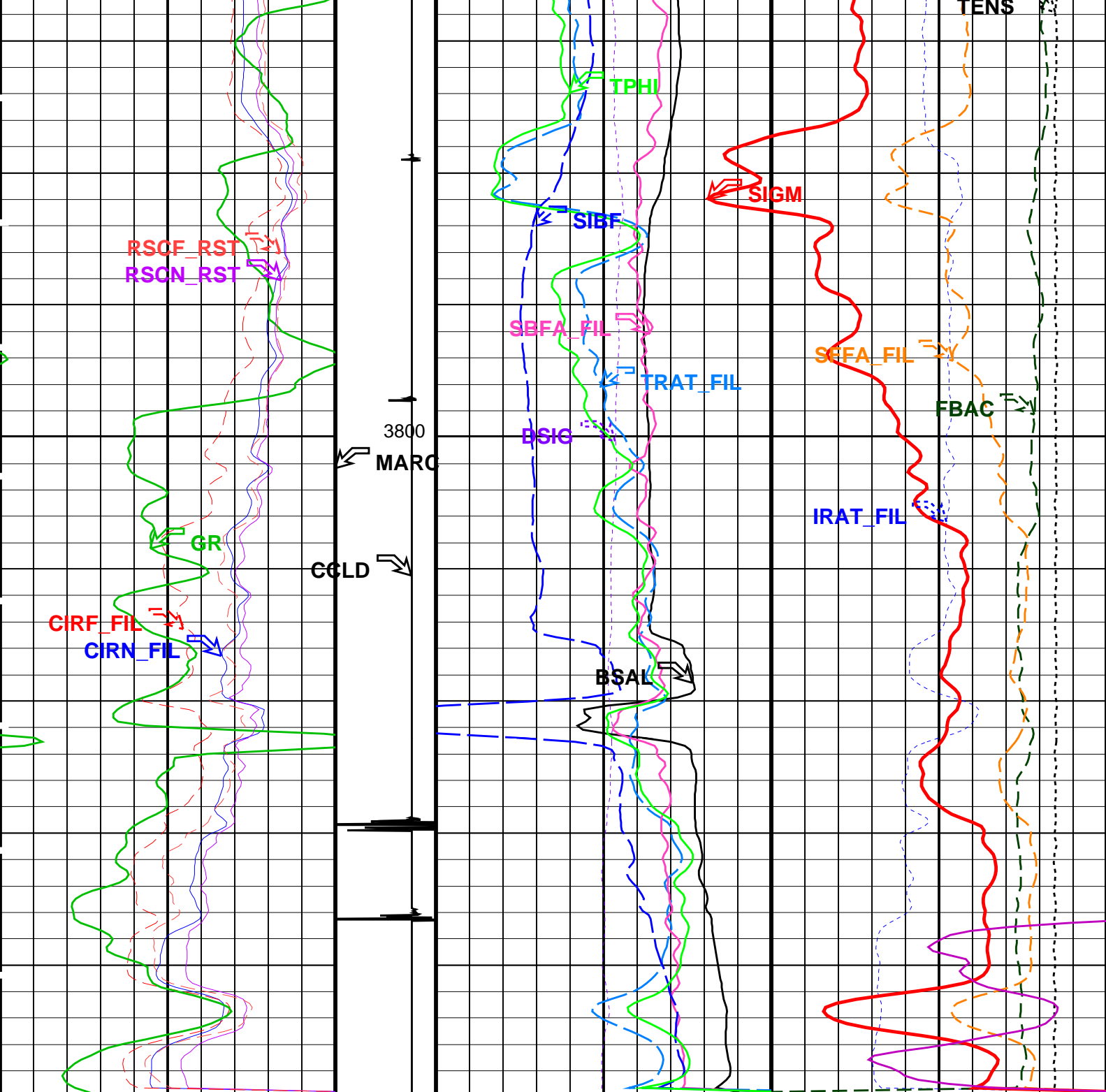
RST-C	SRPC-3546-Q1_2008_OP15	PSPT-B	SRPC-3546-Q1_2008_OP15
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PIP SUMMARY

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





<div>Gamma Ray (GR)</div> <div>(GAPI)</div> <div>0150</div>	<div>Discriminat</div> <div>ed CCL</div> <div>(CCLD)</div> <div>3 (V) -1</div>	<div>RST Borehole Salinity (BSAL)</div> <div>(PPK)</div> <div>450-50</div>	<div>RST Inelastic Ratio (IRAT_FIL)</div> <div>(----</div> <div>0.750</div>
<div>RST Capture to Inelastic Ratio Near</div> <div>(CIRN_FIL)</div> <div>2.5 (----) 0</div>	<div>Minitron</div> <div>Arc</div> <div>Detection</div> <div>(MARC)</div> <div>0 (---- 5</div>	<div>RST Sigma Difference (DSIG)</div> <div>(CU)</div> <div>-3030</div>	<div>MCS Far Background (filtered) (FBAC)</div> <div>(CPS)</div> <div>05000</div>
<div>RST Capture to Inelastic Ratio Far</div> <div>(CIRF_FIL)</div> <div>5 (----) 0</div>		<div>RST Capture Ratio (TRAT_FIL)</div> <div>(----</div> <div>1.50.5</div>	<div>Sigma Formation Far Apparent (SFFA_</div> <div>FIL)</div> <div>60 (CU) 0</div>
<div>RST Near Effective Capture CR (RSCN_</div> <div>RST)</div> <div>45 (----) 0</div>		<div>Sigma Borehole Far Apparent (SBFA_</div> <div>FIL)</div> <div>150 (CU) 0</div>	<div>Tension (TENS)</div> <div>(LBF) 3000</div>

RST Far Effective Capture CR (RSCF_		RST Sigma Borehole Fluid (SIBF)	
45	RST)	100	(CU) 0
		RST Porosity (TPHI)	
		0.6	(V/V) 0
		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	
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	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	35.20	LB/F
DO	Depth Offset for Playback	0.5	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW	Vertical Scale: 1:200	Graphics File Created: 15-Jun-2008 18:31
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OP System Version: 15C0-309			
MCM			
RST-C	SRPC-3546-Q1_2008_OP15	PSPT-B	SRPC-3546-Q1_2008_OP15

Input DLIS Files						
DEFAULT	RST_PSP_010LUP	FN:9	PRODUCER	15-Jun-2008 16:41	3919.0 M	3758.6 M
Output DLIS Files						
DEFAULT	RST_PSP_015PUP	FN:14	PRODUCER	15-Jun-2008 18:31		

	<div>RST-C Sigma Pass # 1 900 ft/hr Static 35.2 lbs/ft</div>
MAXIS Field Log	

Company: Esso Australia Pty Ltd.	Well: A-28B
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Input DLIS Files

DEFAULT RST_PSP_007LUP FN:6 PRODUCER 15-Jun-2008 14:42 3929.5 M 3771.4 M

Output DLIS Files

DEFAULT RST_PSP_014PUP FN:13 PRODUCER 15-Jun-2008 18:26 3824.9 M 3769.9 M

OP System Version: 15C0-309

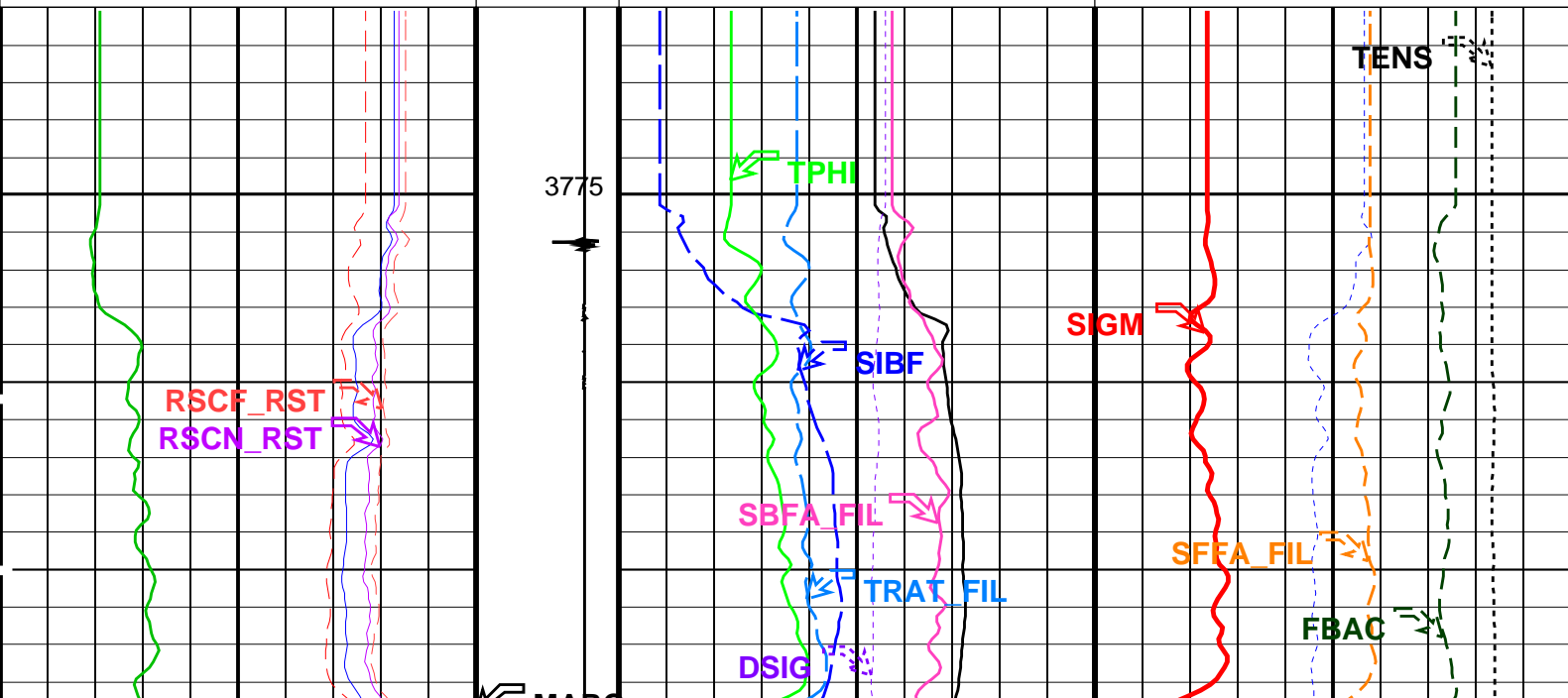
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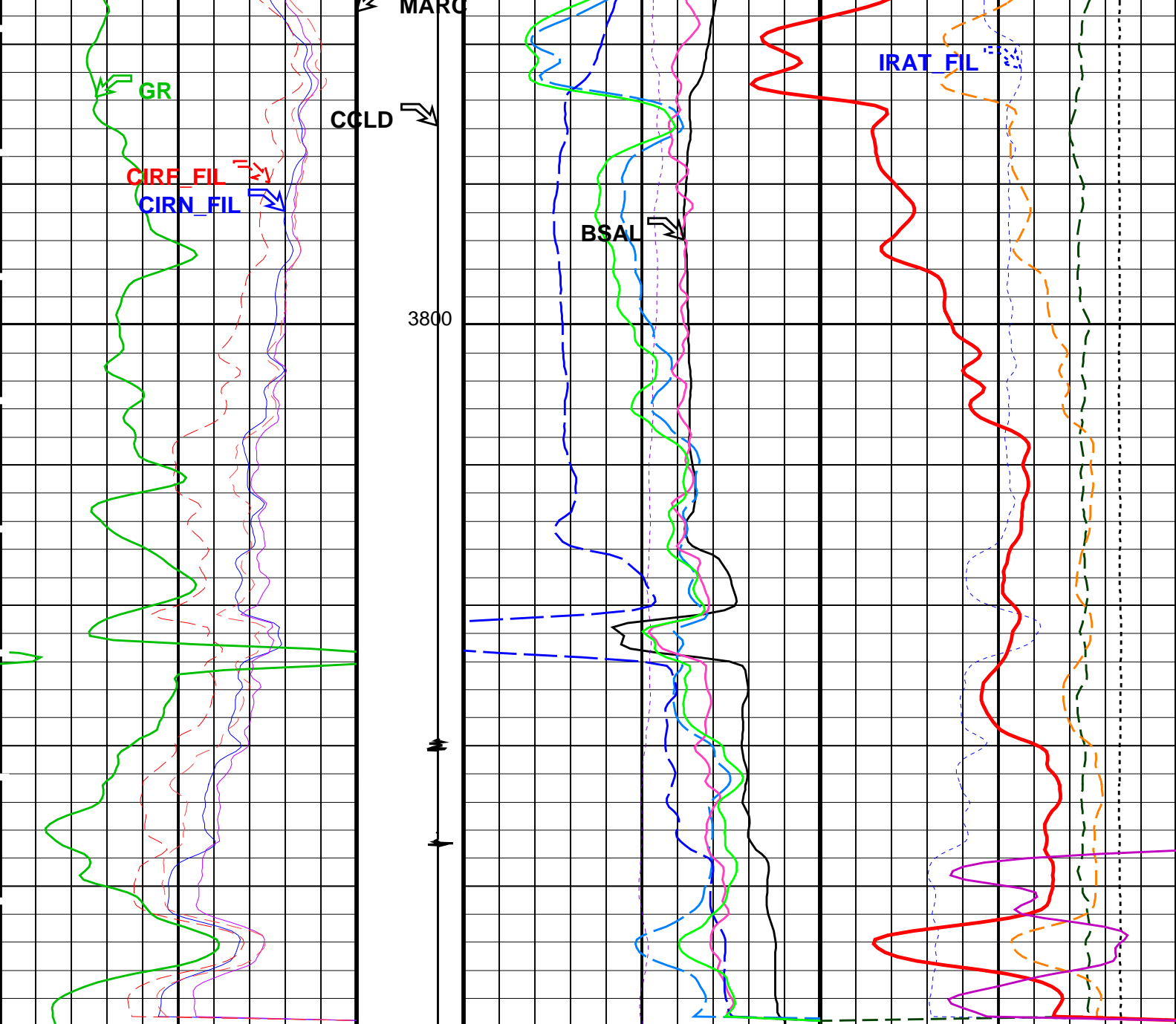
RST-C SRPC-3546-Q1_2008_OP15 PSPT-B SRPC-3546-Q1_2008_OP15

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 Sigma Borehole Fluid (SIBF)			
100		(CU) 0	
Sigma Borehole Far Apparent (SBFA_FIL)			
150		(CU) 0	
RST Far Effective Capture CR (RSCF_RST)			
45		(----) 0	
RST Near Effective Capture CR (RSCN_RST)			
45		(----) 0	
RST Capture to Inelastic Ratio Far (CIRF_FIL)			
5		(----) 0	
RST Capture to Inelastic Ratio Near (CIRN_FIL)			
2.5		(----) 0	
Gamma Ray (GR)			
0		(GAPI) 150	
Minitron Arc Detection (MARC)			
0		(----) 5	
RST Sigma Difference (DSIG)			
-30		(CU) 30	
MCS Far Background (filtered) (FBAC)			
0		(CPS) 5000	
Discriminated CCL (CCLD)			
3		(V) -1	
RST Borehole Salinity (BSAL)			
450		(PPK) -50	
RST Inelastic Ratio (IRAT_FIL)			
0.75		(----) 0	





<div>Gamma Ray (GR) (GAPI)</div> <div>0150</div>	<div>Discriminat ed CCL (CCLD)</div> <div>3 (V) -1</div>	<div>RST Borehole Salinity (BSAL) (PPK)</div> <div>450-50</div>	<div>RST Inelastic Ratio (IRAT_FIL) (----</div> <div>0.750</div>
<div>RST Capture to Inelastic Ratio Near (CIRC_FIL)</div> <div>2.50</div>	<div>Minitron Arc Detection (MARC)</div> <div>0 (---- 5</div>	<div>RST Sigma Difference (DSIG) (CU)</div> <div>-3030</div>	<div>MCS Far Background (filtered) (FBAC) (CPS)</div> <div>05000</div>
<div>RST Capture to Inelastic Ratio Far (CIRF_FIL)</div> <div>5-----0</div>		<div>RST Capture Ratio (TRAT_FIL) (----</div> <div>1.50.5</div>	<div>Sigma Formation Far Apparent (SFFA_ FIL) (CU)</div> <div>60-----0</div>
<div>RST Near Effective Capture CR (RSCN_ RST)</div> <div>45-----0</div>		<div>Sigma Borehole Far Apparent (SBFA_ FIL) (CU)</div> <div>1500</div>	<div>Tension (TENS) (LBF) 3000</div>
<div>RST Far Effective Capture CR (RSCF_ RST)</div> <div>45-----0</div>		<div>RST Sigma Borehole Fluid (SIBF) (CU)</div> <div>1000</div>	
		<div>RST Porosity (TPHI) (V/V)</div> <div>0.60</div>	

Input DLIS Files						
DEFAULT	RST_PSP_011LUP	FN:10	PRODUCER	15-Jun-2008 17:25	3921.6 M	3774.5 M
Output DLIS Files						

OP System Version: 15C0-309

MCM

RST-C

SRPC-3546-Q1_2008_OP15

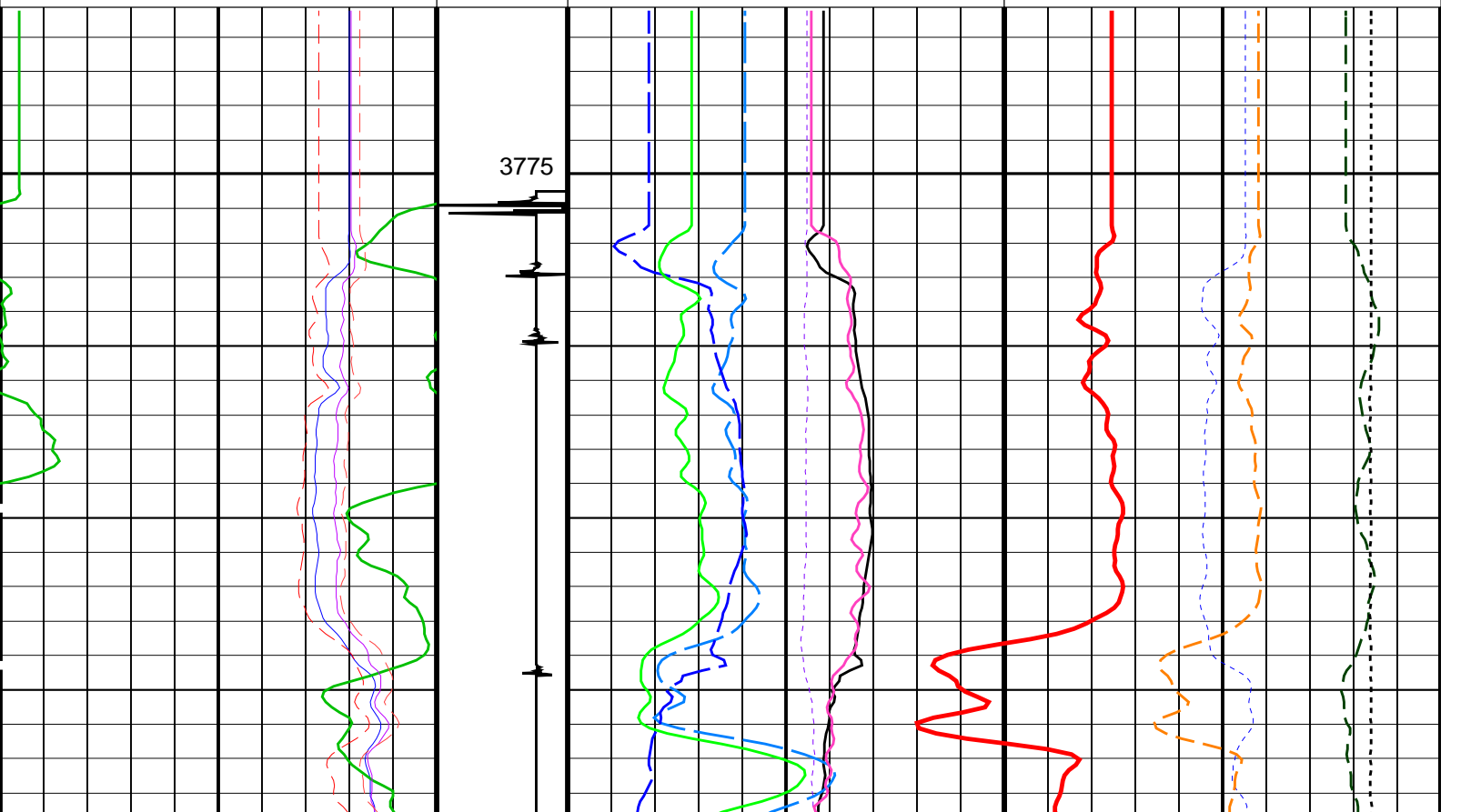
PSPT-B

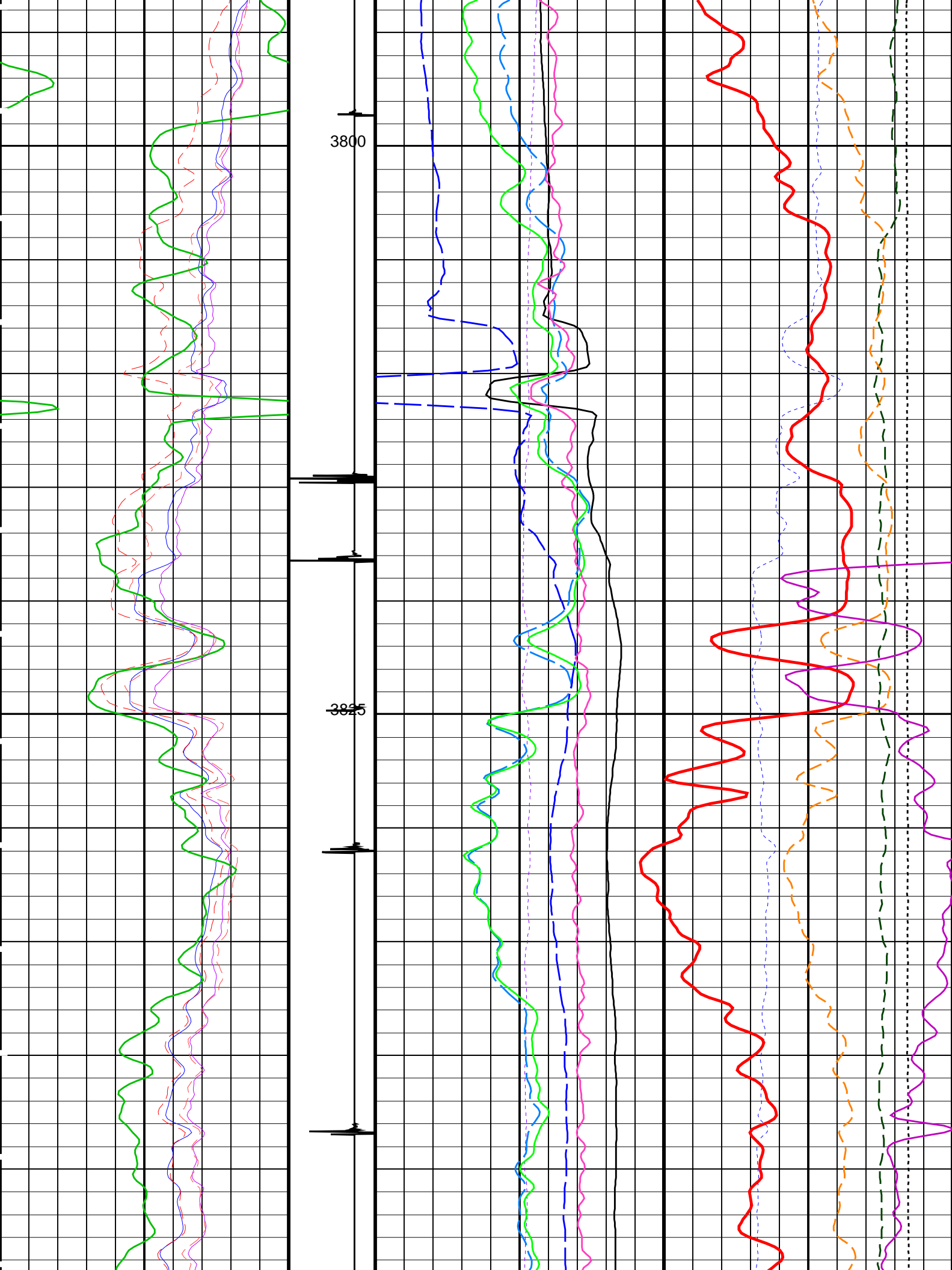
SRPC-3546-Q1_2008_OP15

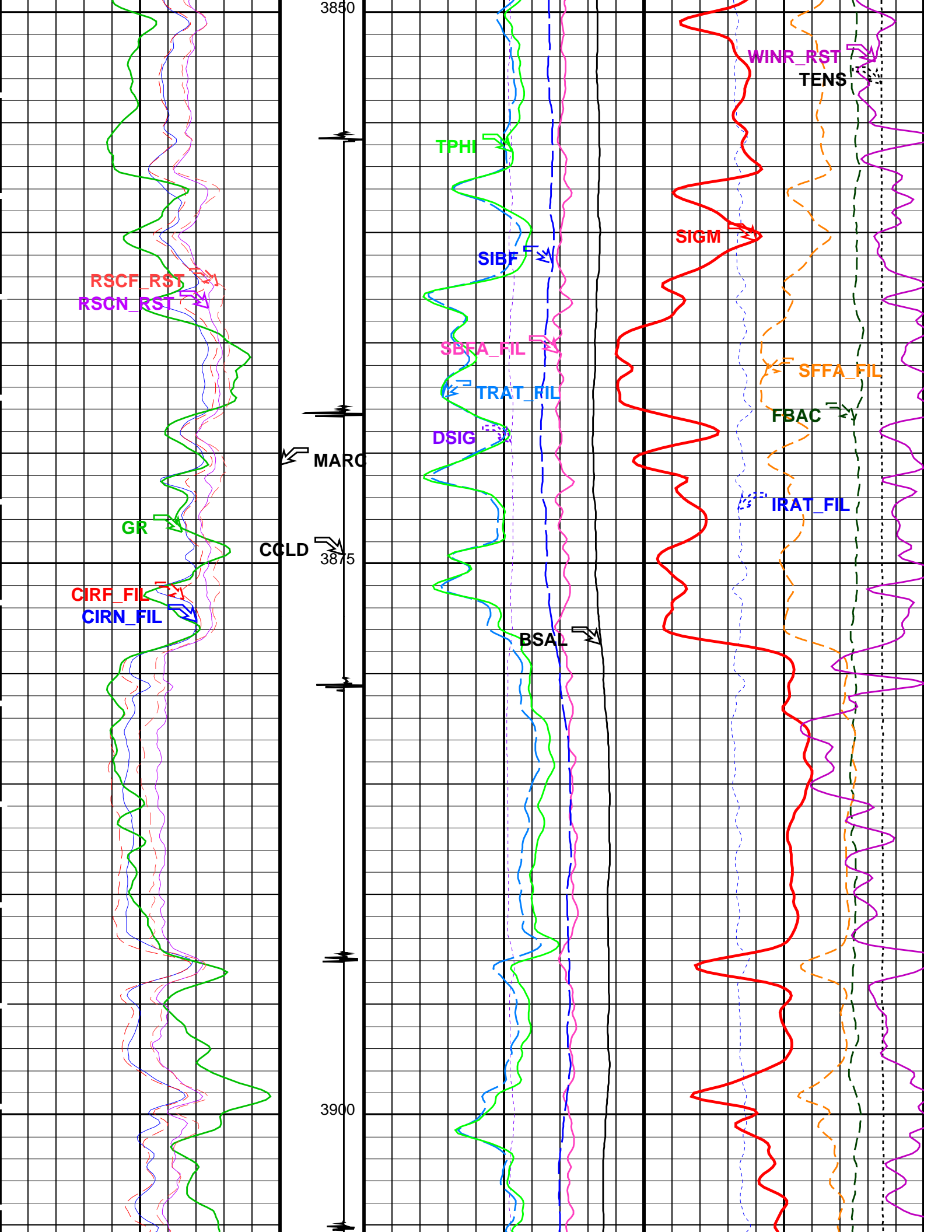
PIP SUMMARY

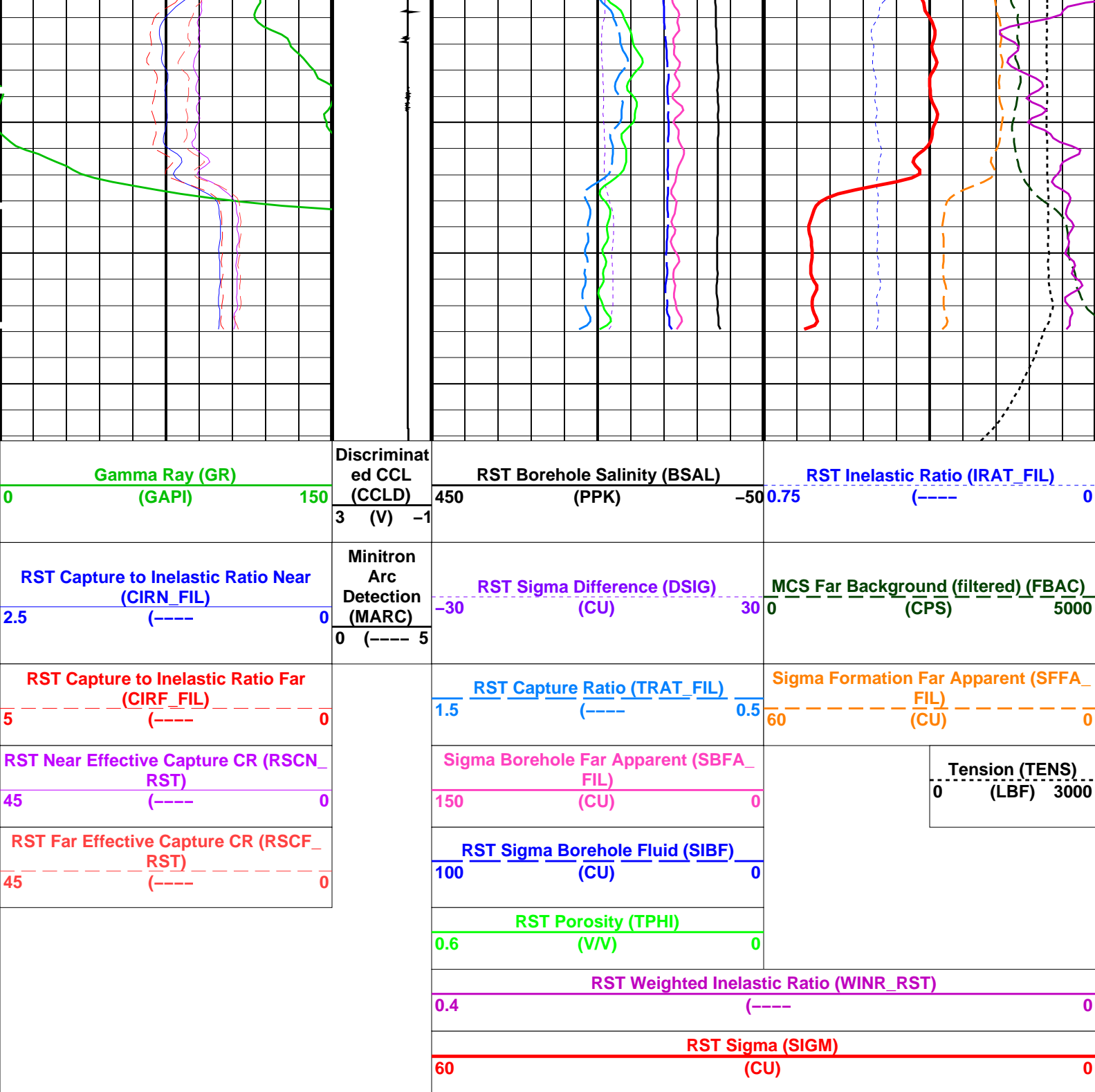
Time Mark Every 60 S

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









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
RGAI	Near/Far Gain Calibration Ratio	1
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma
PSPT	Production Services Logging Platform	

BHS	PSPT-B: Production Services Logging Platform	CASED
MATR	Borehole Status	SANDSTONE
	Rock Matrix for Neutron Porosity Corrections	
BS	System and Miscellaneous	8.500
BSAL	Bit Size	IN
CSIZ	Borehole Salinity	-50000.00
CWEI	Current Casing Size	PPM
DO	Casing Weight	7.000
PP	Depth Offset for Playback	IN
	Playback Processing	LB/F
		0.6
		M
		NORMAL


Format: RST_SIG_ANSW

Vertical Scale: 1:200

Graphics File Created: 15-Jun-2008 18:21

OP System Version: 15C0-309			
MCM			
RST-C	SRPC-3546-Q1_2008_OP15	PSPT-B	SRPC-3546-Q1_2008_OP15

Input DLIS Files						
DEFAULT	RST_PSP_011LUP	FN:10	PRODUCER	15-Jun-2008 17:25	3921.6 M	3774.5 M
Output DLIS Files						
DEFAULT	RST_PSP_013PUP	FN:12	PRODUCER	15-Jun-2008 18:21		



RST-C Sigma

Pass # 2 900 ft/hr Flowing

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-28B

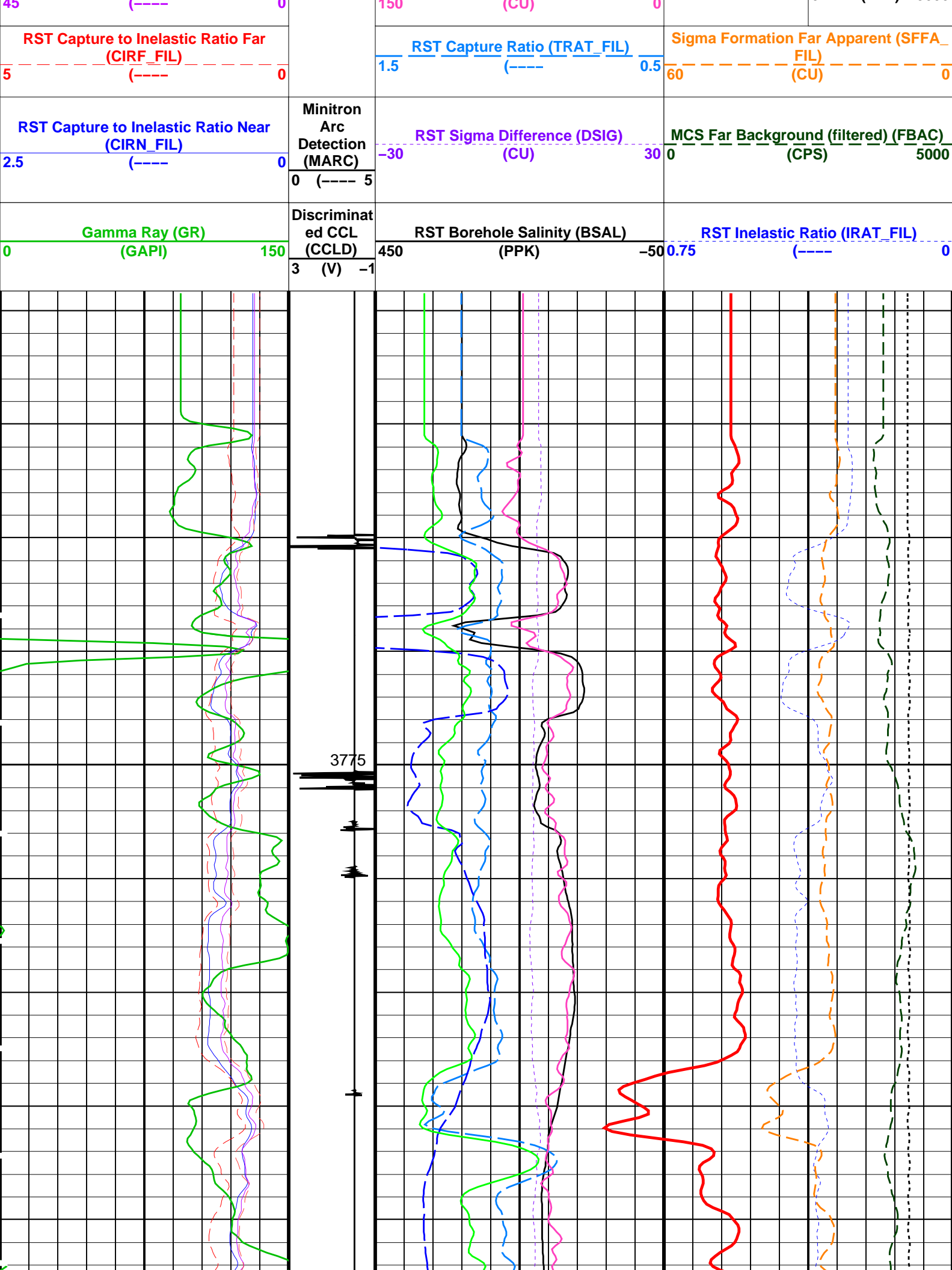
Input DLIS Files						
DEFAULT	RST_PSP_010LUP	FN:9	PRODUCER	15-Jun-2008 16:41	3919.0 M	3758.6 M
Output DLIS Files						
DEFAULT	RST_PSP_012PUP	FN:11	PRODUCER	15-Jun-2008 18:18	3919.4 M	3754.1 M

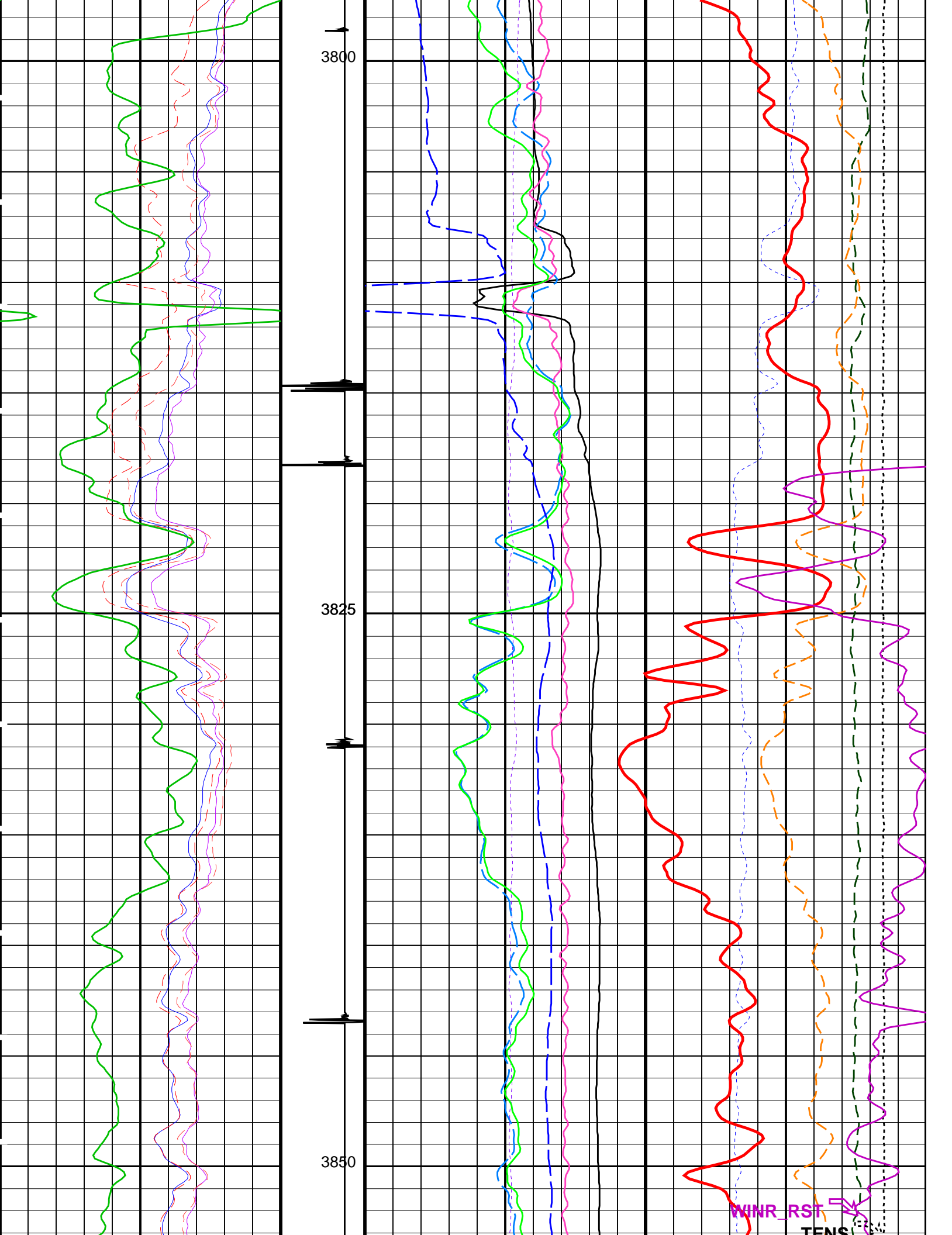
OP System Version: 15C0-309			
MCM			
RST-C	SRPC-3546-Q1_2008_OP15	PSPT-B	SRPC-3546-Q1_2008_OP15

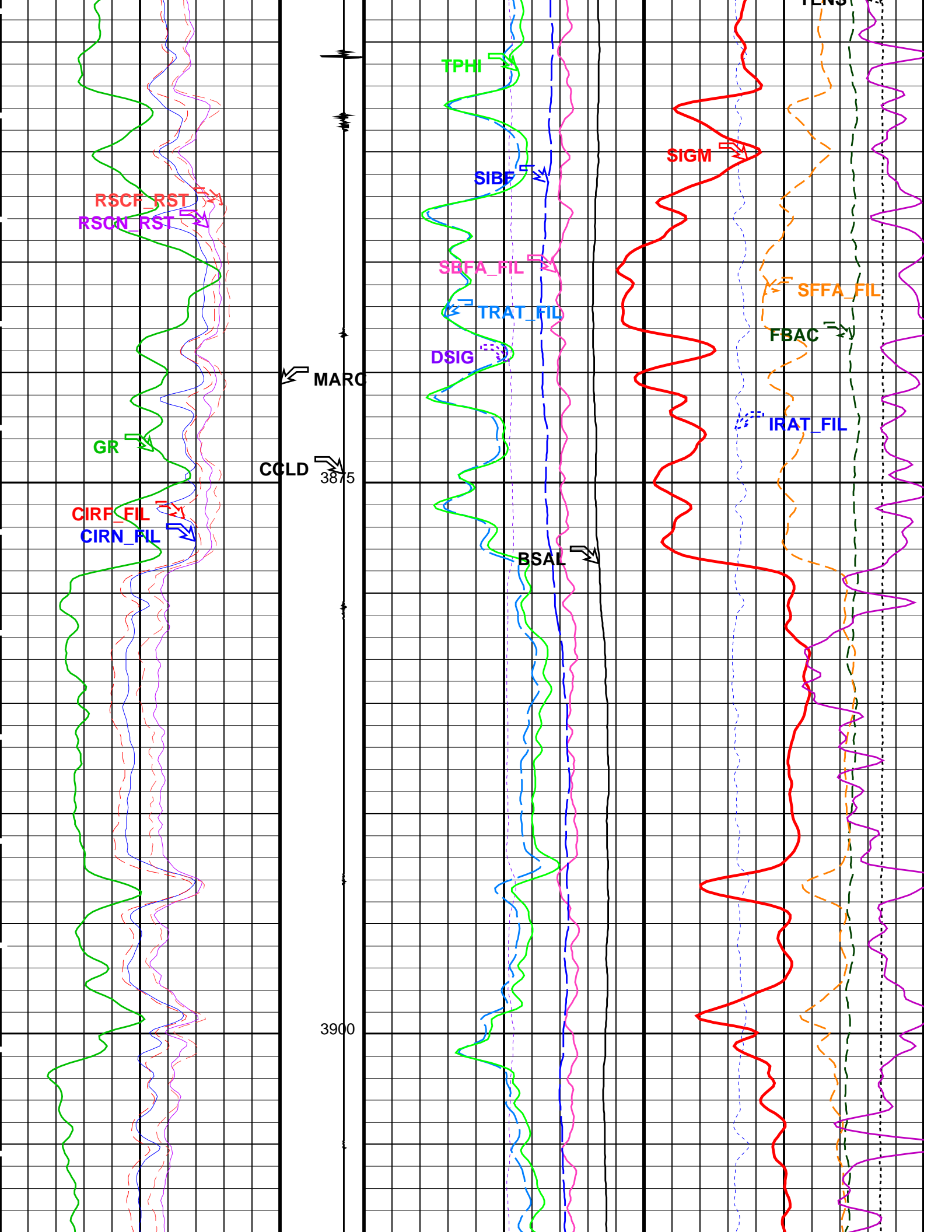
PIP SUMMARY

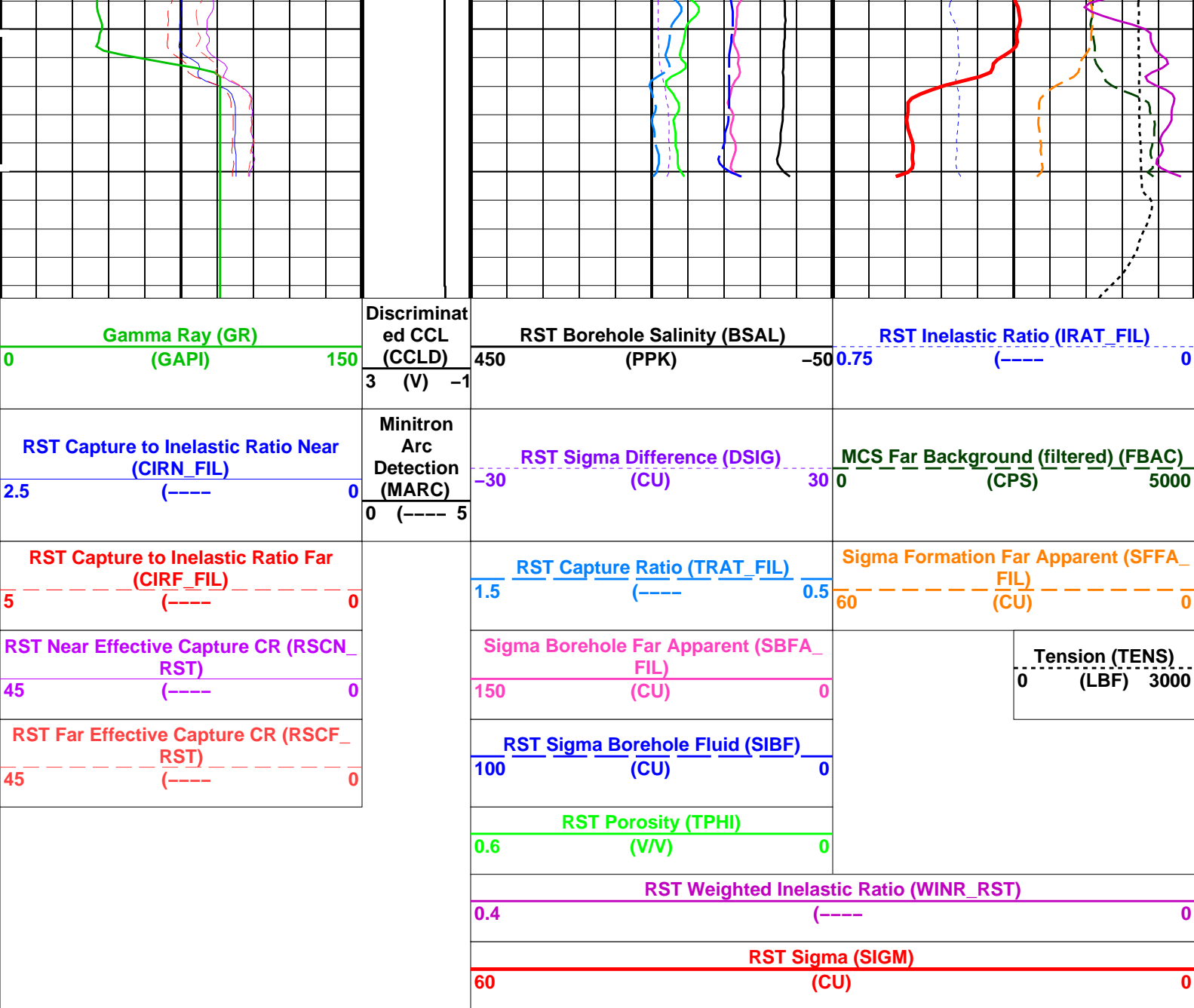
Time Mark Every 60 S

<div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45 (----) 0</div>	RST Sigma (SIGM)		
	60	(CU)	0
	RST Weighted Inelastic Ratio (WINR_RST)		
	0.4	(----	0
	RST Porosity (TPHI)		
	0.6	(V/V)	0
<div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45 (----) 0</div>	RST Sigma Borehole Fluid (SIBF)		
	100	(CU)	0
		Sigma Borehole Far Apparent (SBFA_FIL)	
		150 (CU)	0
			<div>Tension (TENS)</div> <div>0 (LBF) 3000</div>









Time Mark Every 60 S

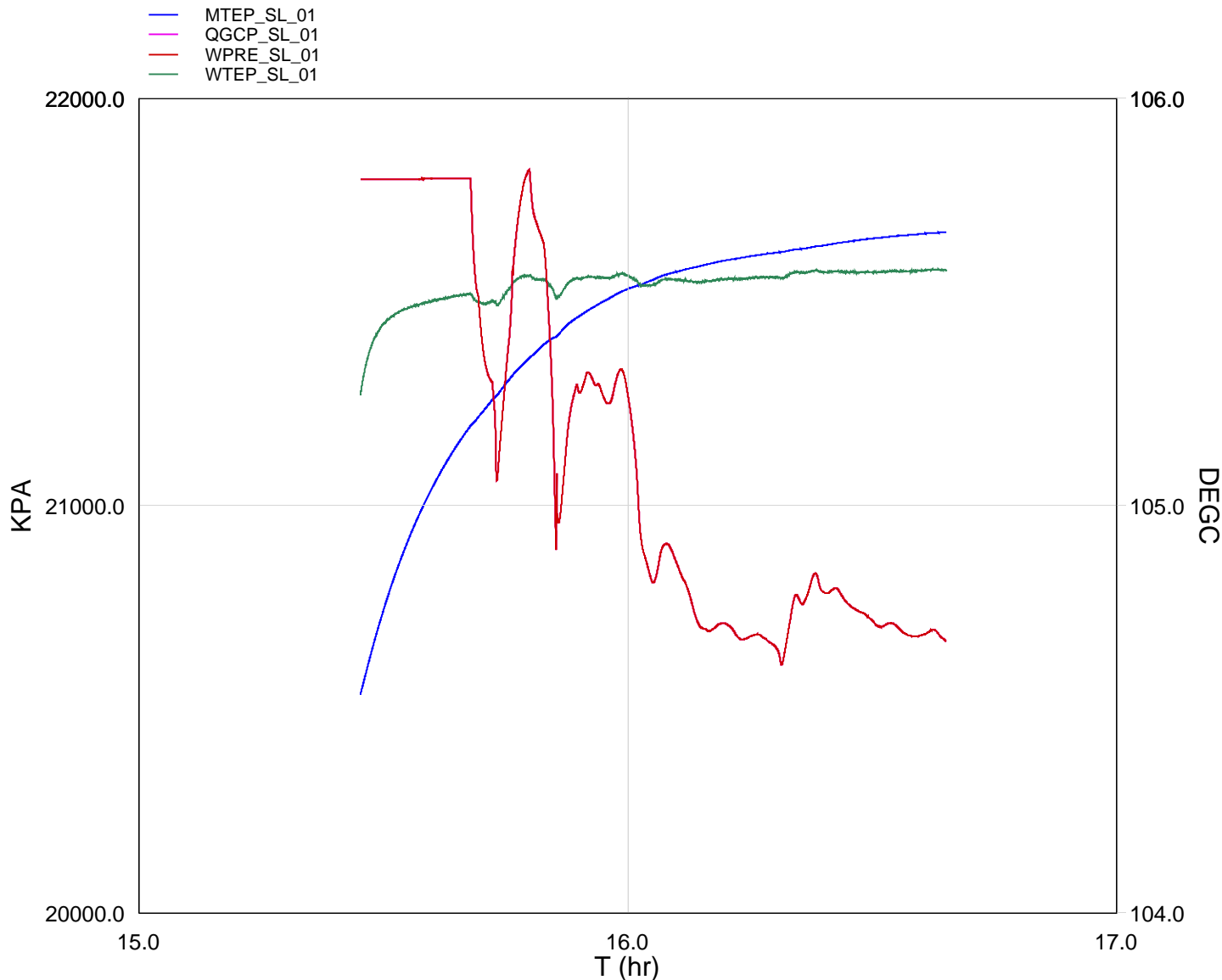
Parameters		
DLIS Name	Description	Value
RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No
BHS	Borehole Status	CASED
BSALOPT	RST Borehole Salinity Option	Unknown
BSFL	RST Borehole Salinity Filter Length	51
DFPC	RST Depth Filter Processing Constant	One
DFPC_TDTL	RST Depth Filter Processing 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
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	8.500 IN
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	7.000 IN
CWEI	Casing Weight	26.00 LB/F
DO	Depth Offset for Playback	0.5 M
PP	Playback Processing	NORMAL

OP System Version: 15C0-309						
MCM						
RST-C	SRPC-3546-Q1_2008_OP15		PSPT-B		SRPC-3546-Q1_2008_OP15	
Input DLIS Files						
DEFAULT	RST_PSP_010LUP	FN:9	PRODUCER	15-Jun-2008 16:41	3919.0 M	3758.6 M
Output DLIS Files						
DEFAULT	RST_PSP_012PUP	FN:11	PRODUCER	15-Jun-2008 18:18		



Well Drawdown @ 3910m MDKB

MAXIS Field Log



TIME	TOJ	DEGF	PSIA
5640.0000	15.3721	220.3385	3145.6149
5760.0000	15.4776	221.7187	3162.1161
5880.0000	15.5110	221.8267	3162.1633
6000.0000	15.5443	221.8703	3162.2124
6120.0000	15.5776	221.8930	3162.2504
6240.0000	15.6110	221.9108	3162.2759
6360.0000	15.6443	221.9266	3162.3004
6480.0000	15.6776	221.9367	3162.3053
6600.0000	15.7110	221.8952	3094.4426
6720.0000	15.7443	221.9209	3080.2480
6840.0000	15.7776	222.0074	3150.9931
6960.0000	15.8110	222.0021	3147.6746
7080.0000	15.8443	221.9637	3090.6155
7200.0000	15.8776	221.9852	3073.4471
7320.0000	15.9110	222.0077	3090.0643
7440.0000	15.9443	222.0101	3087.4995
7560.0000	15.9776	222.0205	3091.6327
7680.0000	16.0110	222.0053	3071.2050
7800.0000	16.0443	221.9757	3021.6848
7920.0000	16.0776	222.0022	3032.2893
8040.0000	16.1110	221.9970	3020.4977
8160.0000	16.1443	221.9897	3003.8775
8280.0000	16.1776	221.9982	3002.4027
8400.0000	16.2110	222.0028	3002.5473
8520.0000	16.2443	222.0056	2998.7622
8640.0000	16.2776	222.0121	2998.9001
8760.0000	16.3110	222.0085	2991.7468
8880.0000	16.3443	222.0357	3014.2740
9000.0000	16.3776	222.0393	3020.2672
9120.0000	16.4110	222.0330	3014.8407
9240.0000	16.4443	222.0322	3012.0205
9360.0000	16.4776	222.0326	3007.8791
9480.0000	16.5110	222.0334	3003.0022
9600.0000	16.5443	222.0388	3003.7451
9720.0000	16.5776	222.0360	2999.6320
9840.0000	16.6110	222.0421	3000.4655
9960.0000	16.6443	222.0422	2998.6022

Schlumberger

RST-C Sigma
Pass # 1 900 ft/hr Static

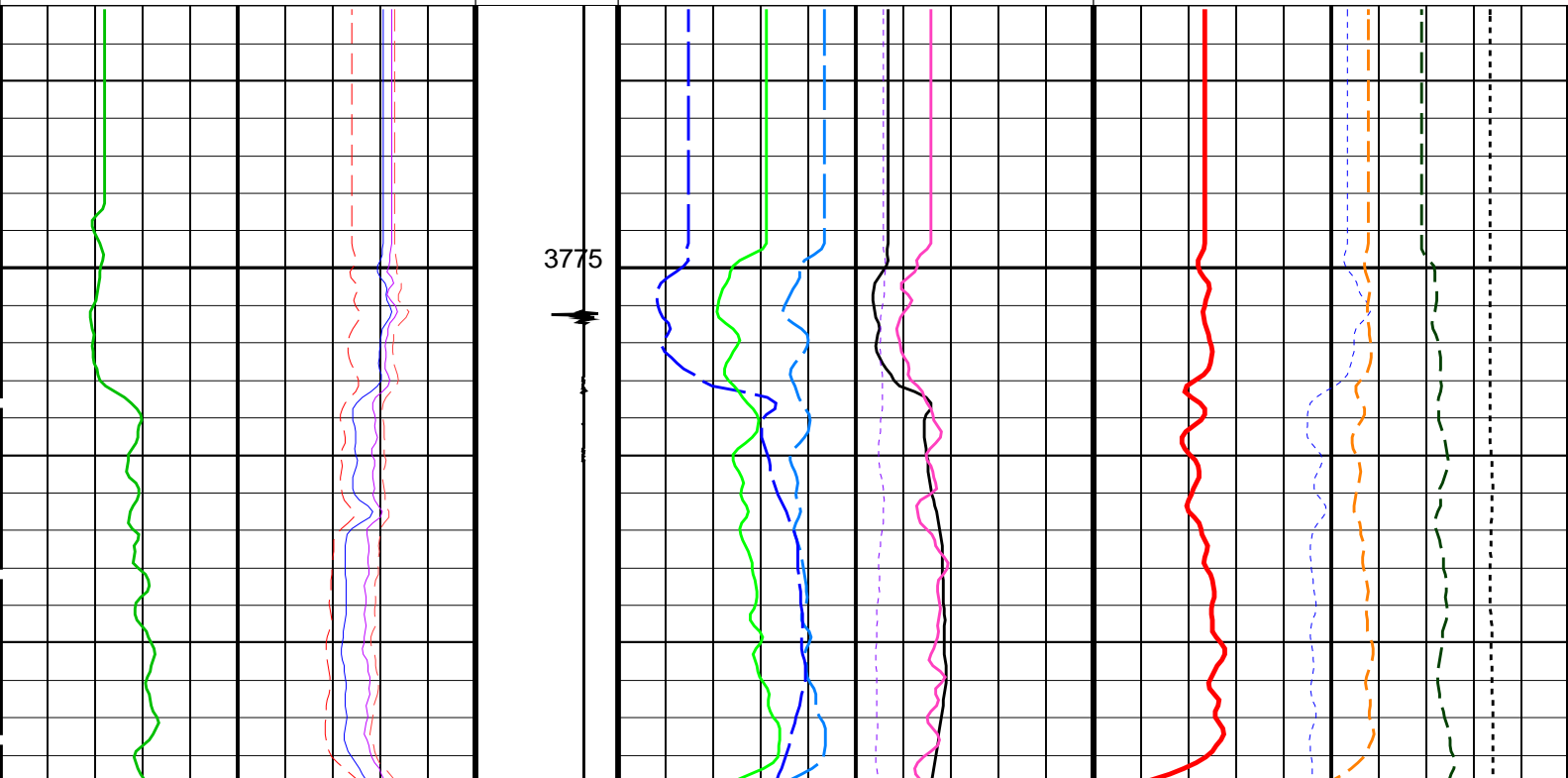
MAXIS Field Log

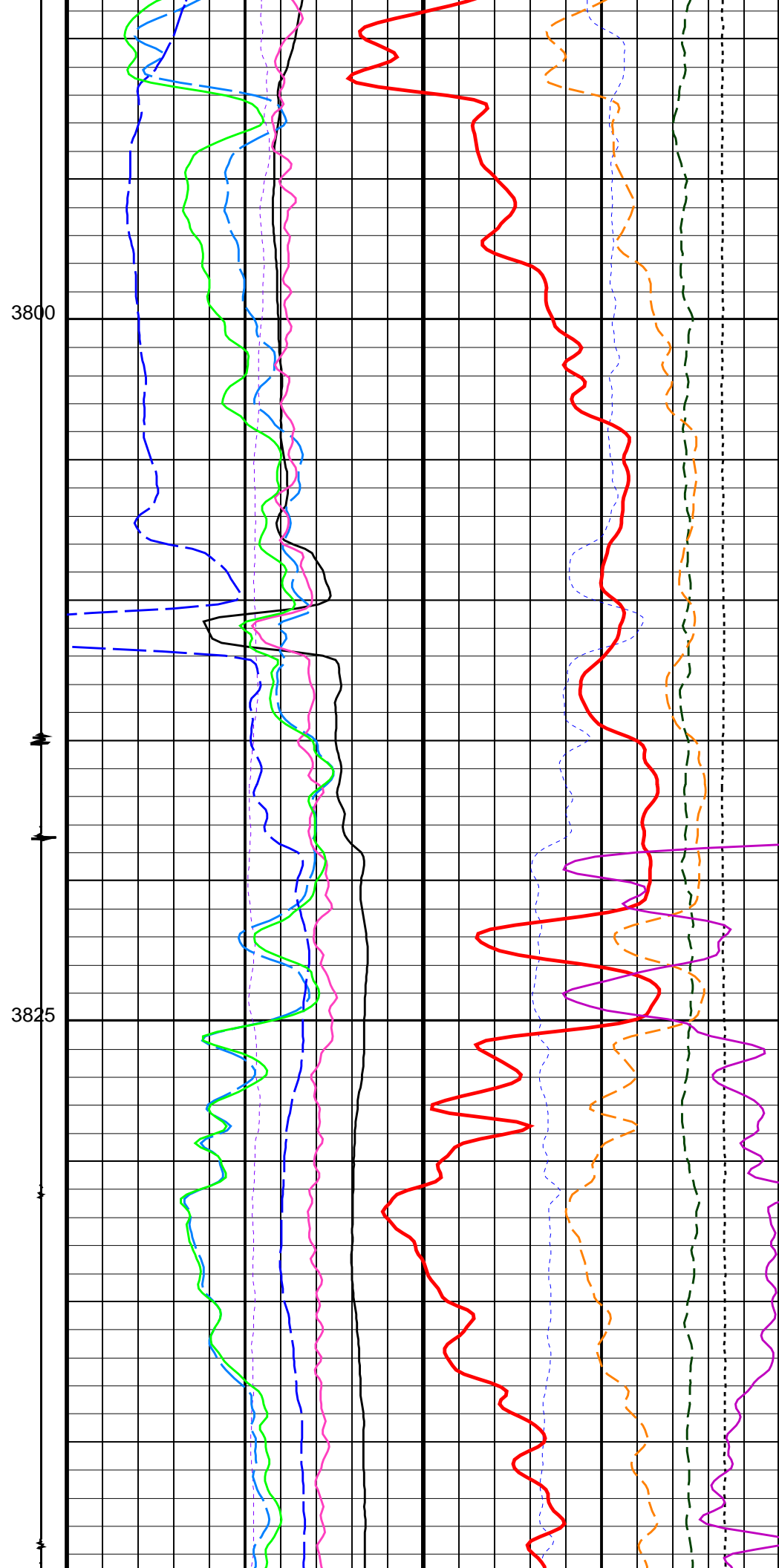
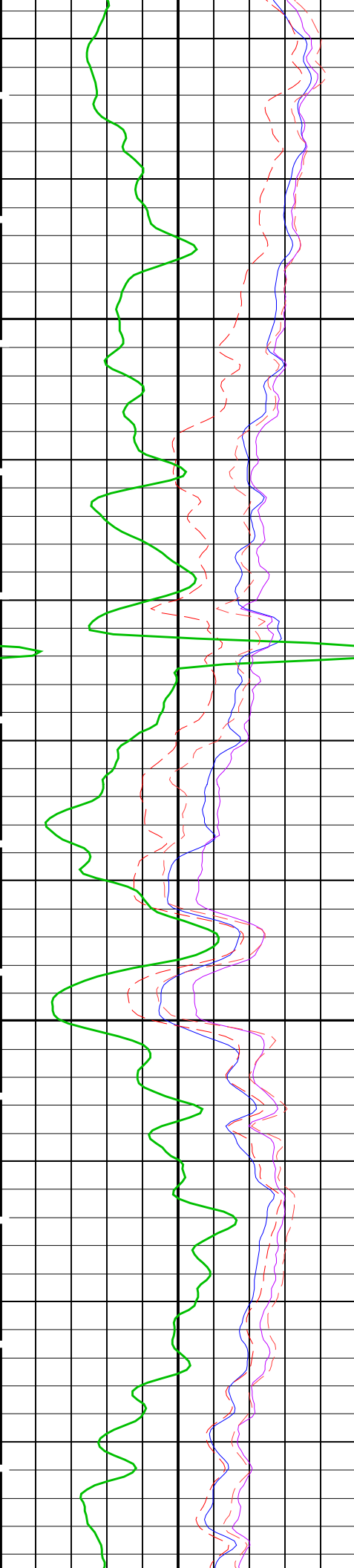
Input DLIS Files

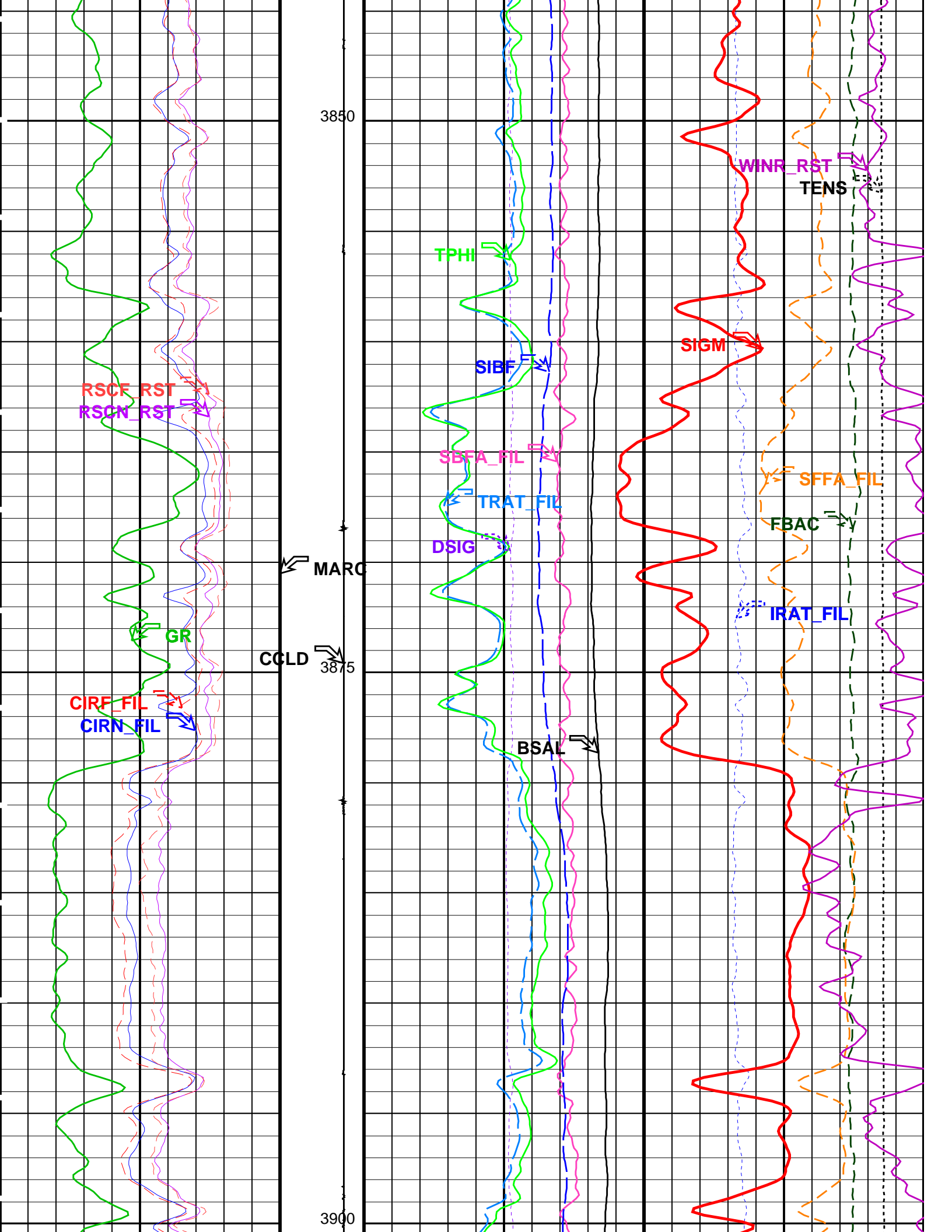
PIP SUMMARY

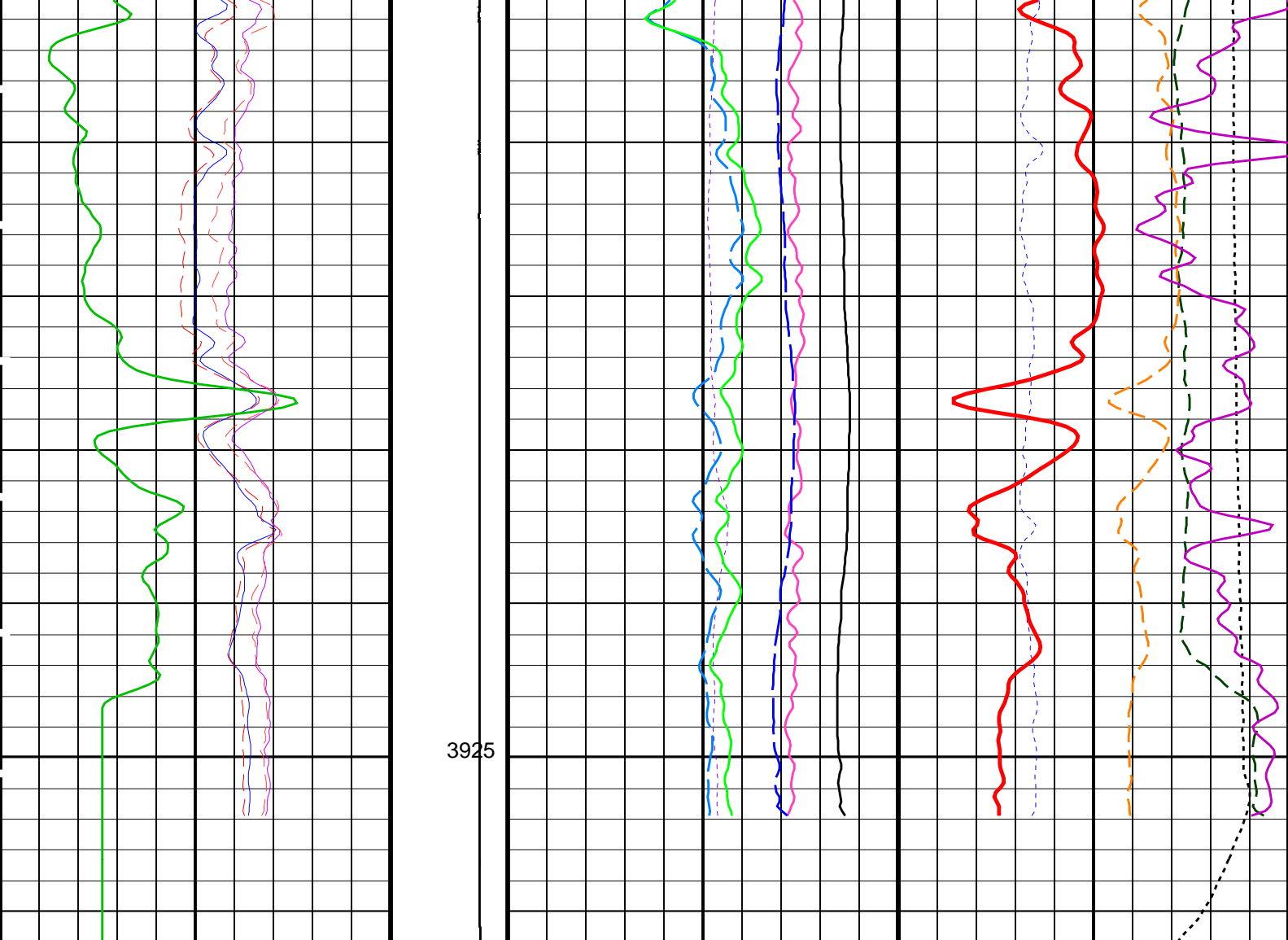
Time Mark Every 60 S

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









<div>Gamma Ray (GR) (GAPI)</div> <div>0150</div>	<div>Discriminat ed CCL (CCLD)</div> <div>3 (V) -1</div>	<div>RST Borehole Salinity (BSAL) (PPK)</div> <div>450-50</div>	<div>RST Inelastic Ratio (IRAT_FIL) (----</div> <div>0.750</div>	
<div>RST Capture to Inelastic Ratio Near (CIRN_FIL)</div> <div>2.50</div>	<div>Minitron Arc Detection (MARC)</div> <div>0 (---- 5</div>	<div>RST Sigma Difference (DSIG) (CU)</div> <div>-3030</div>	<div>MCS Far Background (filtered) (FBAC) (CPS)</div> <div>05000</div>	
<div>RST Capture to Inelastic Ratio Far (CIRF_FIL)</div> <div>50</div>		<div>RST Capture Ratio (TRAT_FIL) (----</div> <div>1.50.5</div>	<div>Sigma Formation Far Apparent (SFFA_ FIL) (CU)</div> <div>600</div>	
<div>RST Near Effective Capture CR (RSCN_ RST)</div> <div>450</div>		<div>Sigma Borehole Far Apparent (SBFA_ FIL) (CU)</div> <div>1500</div>	<div>Tension (TENS) (LBF)</div> <div>03000</div>	
<div>RST Far Effective Capture CR (RSCF_ RST)</div> <div>450</div>		<div>RST Sigma Borehole Fluid (SIBF) (CU)</div> <div>1000</div>		
		<div>RST Porosity (TPHI) (V/V)</div> <div>0.60</div>		
		<div>RST Weighted Inelastic Ratio (WINR_RST) (----</div> <div>0.40</div>		
	<div>RST Sigma (SIGM) (CU)</div> <div>600</div>			

Time Mark Every 60 S

PIP SUMMARY

Parameters

DLIS Name

Description

Value

RST-C: Reservoir Saturation Pro Tool C

AIRB

BHS

BSALOPT

BSFL

DFPC

DFPC_TDTL

MATR

NORM_IRAT_RST

NORM_SIGM_RST

RGAI

TIER_SIGM

PSPT-B: Production Services Logging Platform

BHS

MATR

System and Miscellaneous

BS

BSAL

CSIZ

CWEI

DO

PP

RST Air Borehole

Borehole Status

RST Borehole Salinity Option

RST Borehole Salinity Filter Length

RST Depth Filter Processing Constant

RST Depth Filter Processing Constant (TDT-like)

Rock Matrix for Neutron Porosity Corrections

RST Normalized Inelastic Ratio

RST Normalized Sigma

Near/Far Gain Calibration Ratio

RST Sigma Acquisition Mode

Borehole Status

Rock Matrix for Neutron Porosity Corrections

Bit Size

Borehole Salinity

Current Casing Size

Casing Weight

Depth Offset for Playback

Playback Processing

No

CASED

Unknown

51

One

Two

SANDSTONE

0.48

30

1

0_RST_Sigma

CASED

SANDSTONE

8.500

-50000.00

7.000

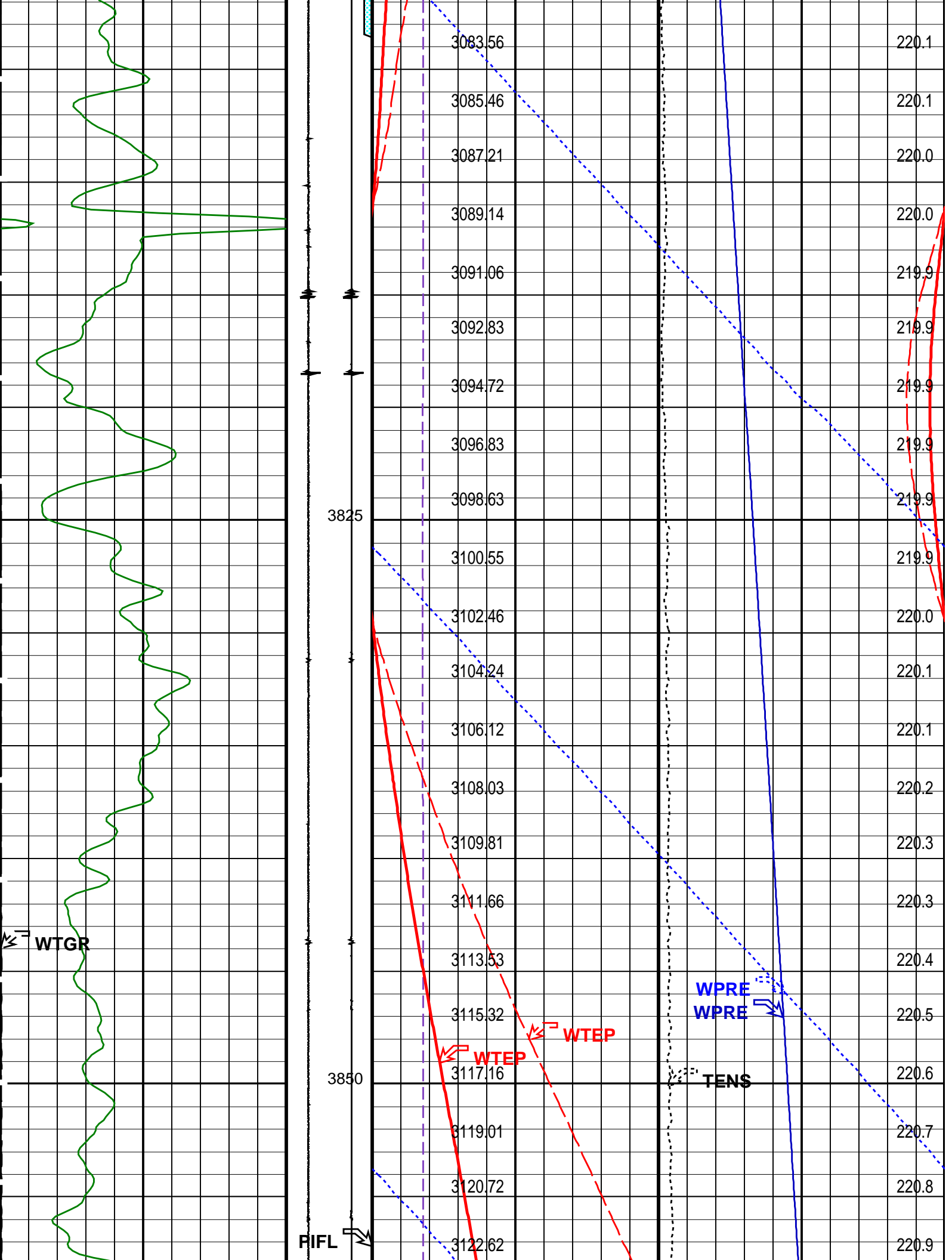
26.00

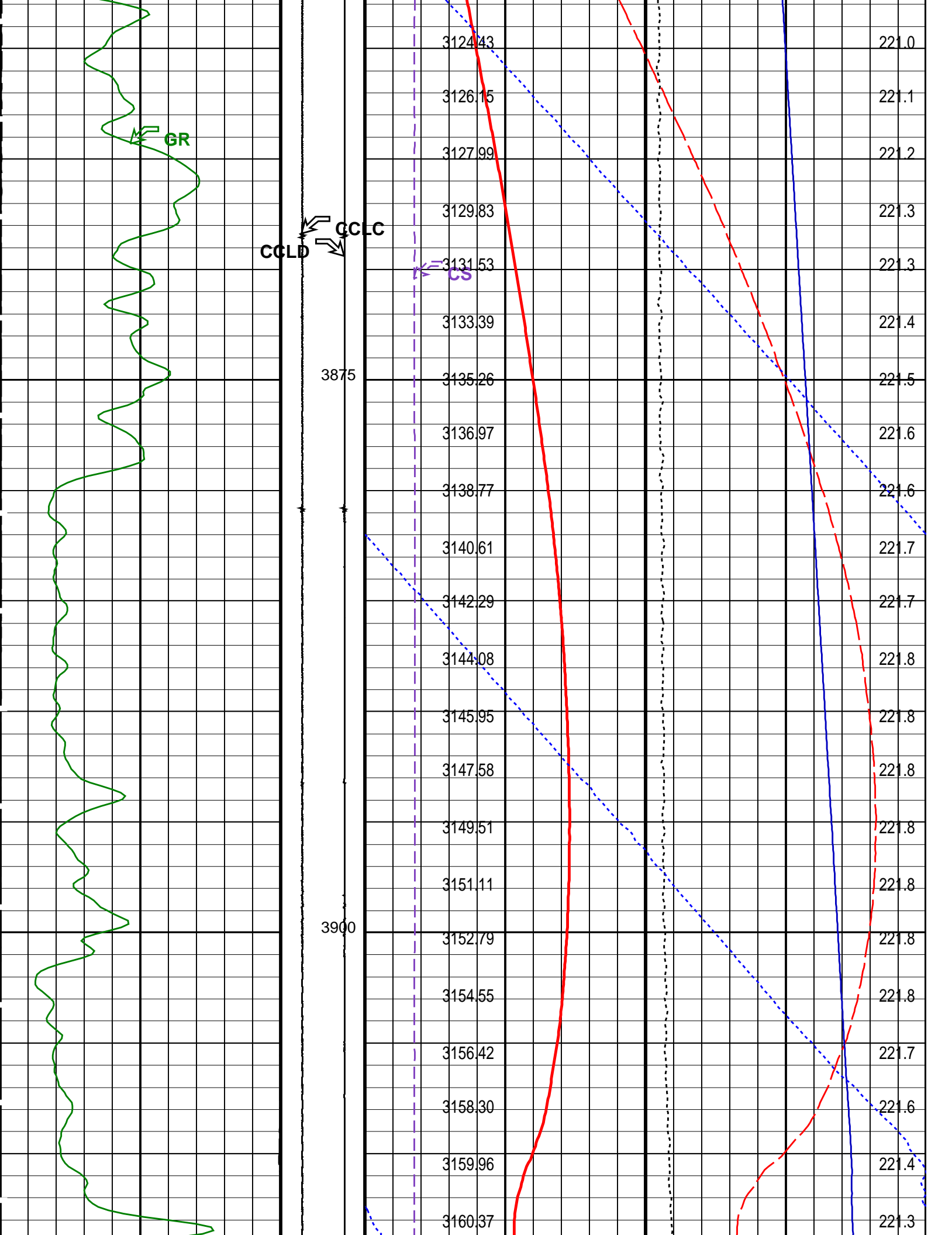
1.5

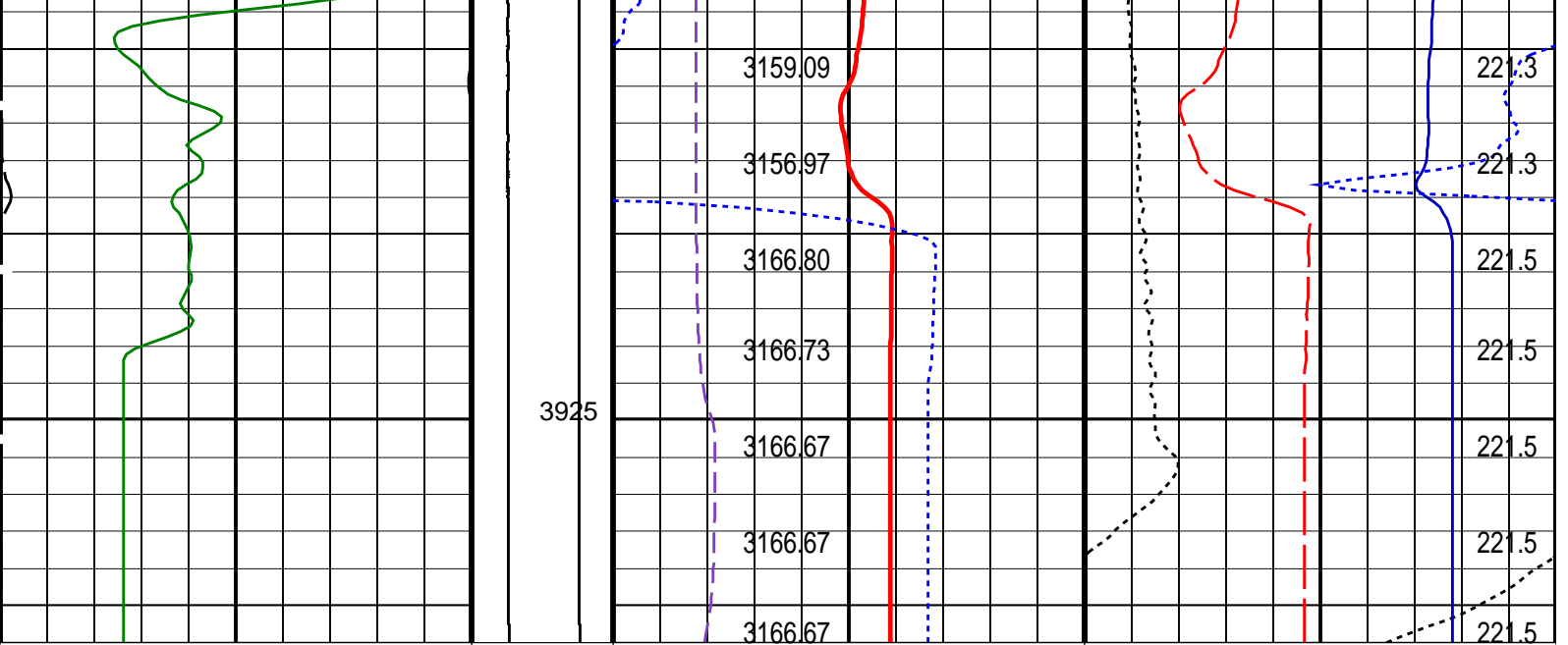
NORMAL

CU

<







Gamma Ray (GR) (GAPI)		Discriminat ed CCL (CCLD) 3 (V) -1	Cable Speed (CS) (F/HR)		Tension (TENS) (LBF)	
0	150		0	5000	0	2000
Well Temperature Gradient (WTGR) (DC/M)		Computed CCL (CCLC) 1 (V) -3	Well Temperature (WTEP) (DEGF)			
0	10		220			225
		Perfo Zone From PERFO_ CURVE to D3T	Well Temperature (WTEP) (DEGF)			
			0			2
			Well Pressure (WPRE) (PSIA)			Temperature (WTEP) (DEGF)
			Well Pressure (WPRE) (PSIA)			
			2900			3200
			Amplified Well Pressure (WPRE) (PSIA)			
			0			20

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200

Graphics File Created: 15-Jun-2008 15:20

OP System Version: 15C0-309

MCM

RST-C SRPC-3546-Q1_2008_OP15 PSPT-B SRPC-3546-Q1_2008_OP15

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback Playback Processing	1.5 M NORMAL

Input DLIS Files

DEFAULT RST_PSP_007LUP FN:6 PRODUCER 15-Jun-2008 14:42 3929.5 M 3771.4 M

Output DLIS Files

Company: **Esso Australia Pty Ltd.**

Well: **A-28B**

Field: **Fortescue**

Rig: **Crane / Prod 4**

Country: **Australia**

Schlumberger

RST-C

Static & Flowing

Sigma Survey