Schlumberger

Company: **Esso Australia Pty Ltd.**

Well: **A−6**

Field: **Flounder**

Rig : **Prod4 / Crane** Country: **Australia**

PLT − Spinner Survey

Field: Flounder
Location: Gippsland
Well: A−6
Company: Esso Australia Pty Ltd.

LOCATION

Gippsland		Elev.: K.B.	40.8 m
Basin		G.L.	−94 m
Bass Strait		D.F.	40.8 m
Permanent Datum:	M.S.L	Elev.:	0 m
Log Measured From:	D.F	40.8 m	above Perm. Datum
Drilling Measured From:	D.F		

State:	Max. Well Deviation	Longitude	Latitude
Victoria	64 deg	148 06'15.1"E	038 18'45.24"S

Logging Date		6−Sep−2008		
Run Number		One		
Depth Driller		4094 m		
Schlumberger Depth		4100 m		
Bottom Log Interval		4100 m		
Top Log Interval		3950 m		
Casing Fluid Type		Production Fluids		
Salinity				
Density				
Fluid Level		1880 m		
BIT/CASING/TUBING STRING				
Bit Size		8.500 in		
From				
To				
Casing/Tubing Size		7.000 in		
Weight		26 lbm/ft		
Grade		N−80		
From		3786 m		
To		4146 m		
Maximum Recorded Temperatures		233 degf		
Logger On Bottom	Time	6−Sep−2008	9:00	
Unit Number	Location	889	Prod4 / Ausl	
Recorded By		G Wright.		
Witnessed By		D Madden.		

		Run 1
PVT DATA	Oil Density	
	Water Salinity	
	Gas Gravity	
	Bo	
	Bw	
	1/Bg	
	Bubble Point Pressure	
	Bubble Point Temperature	
	Solution GOR	
	Maximum Deviation	64 deg
	CEMENTING DATA	
	Primary/Squeeze	Primary
	Casing String No	
	Lead Cement Type	
	Volume	
	Density	
	Water Loss	
	Additives	
	Tail Cement Type	
	Volume	
	Density	
	Water Loss	
	Additives	
	Expected Cement Top	

Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom	Time			
Unit Number	Location			
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 5−SEP−2008 12:54:08

Depth System Equipment

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

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	FLA A6 Petrophysical Analysis.
Reference Log Run Number:	1
Reference Log Date:	01−Sep−2007

Depth Control Remarks

1. IDW−BE 6373 used as primary depth control.
2. Z−Chart used as back−up.

OTHER SERVICES1

OS1: None

REMARKS: RUN NUMBER 1

Log correlated to FLA A−6 composite supplied with logging program.

Maximum well deviation = 64degree's at 750m MDKB.

Survey was run to ascertain if casing damage had occurred below the perforations at 4083.5m to 4084.85m MDKB.

One static pass at 3940 ft/hr down/up over the interval 4100m to 3950m MDKB.

SBHP = 3339 psia,SBHT = 233 degf.

Followed by multiple flowing pass logs and stations.

FBHP = 3219 psia,FBHT = 232 degf.

FBHP = 3319 psia,FBHT 233 degf.

Well test results: total fluids = 409 kl/d,100% water,gas lift in 16.47 km/3d

gas out 33.04 km/3d.THP 3480 kpa,FLT 73 degc,PAP 10982 kpa,TSP 2900 kpa

PSP 2787 kpa,TST 64 degc.

Survey showed flow from below the perforations at 4098m MDKB.

An Mpbt plug will now be run to plug off water production.

Crew : John Light & Jake Annear.

RUN 1

SERVICE ORDER #: Ausl08509131
PROGRAM VERSION: 15C0−309
FLUID LEVEL: 1880 m

LOGGED INTERVAL	START	STOP

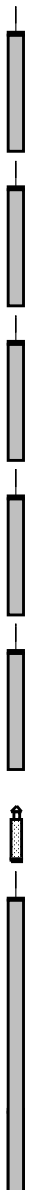
EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

WITM−A 1
PSC_16MHZ 806

DOWNHOLE EQUIPMENT



AH−SWBS−B 789 — 8.62

AH−SWBS−B 788 — 7.93

AH−SWBS−B 787 — 7.24

AH−SWBS−B 786 — 6.56

AH−SWBS−B 785 — 5.87

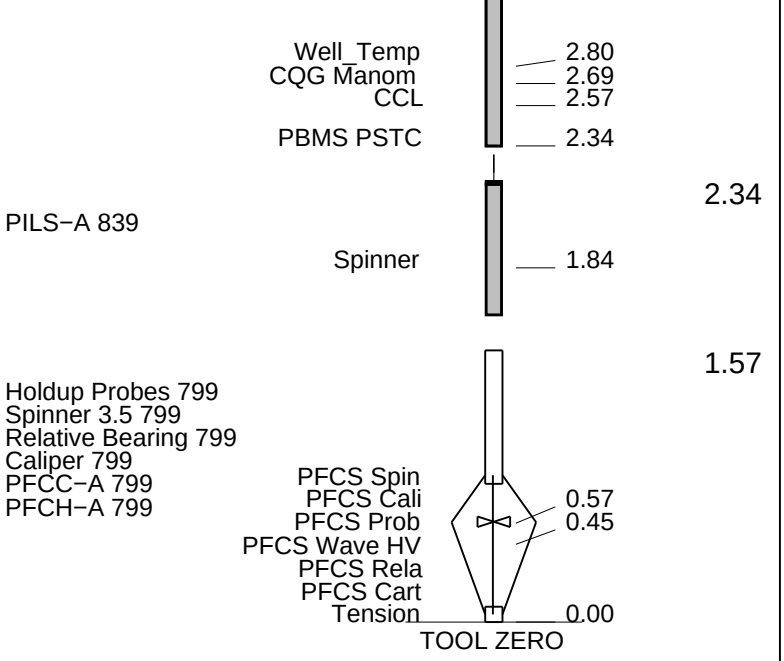
MH−SWHS−A 759 — 5.19

Detail MT
TelStatus
CTEM — 4.86

4.86

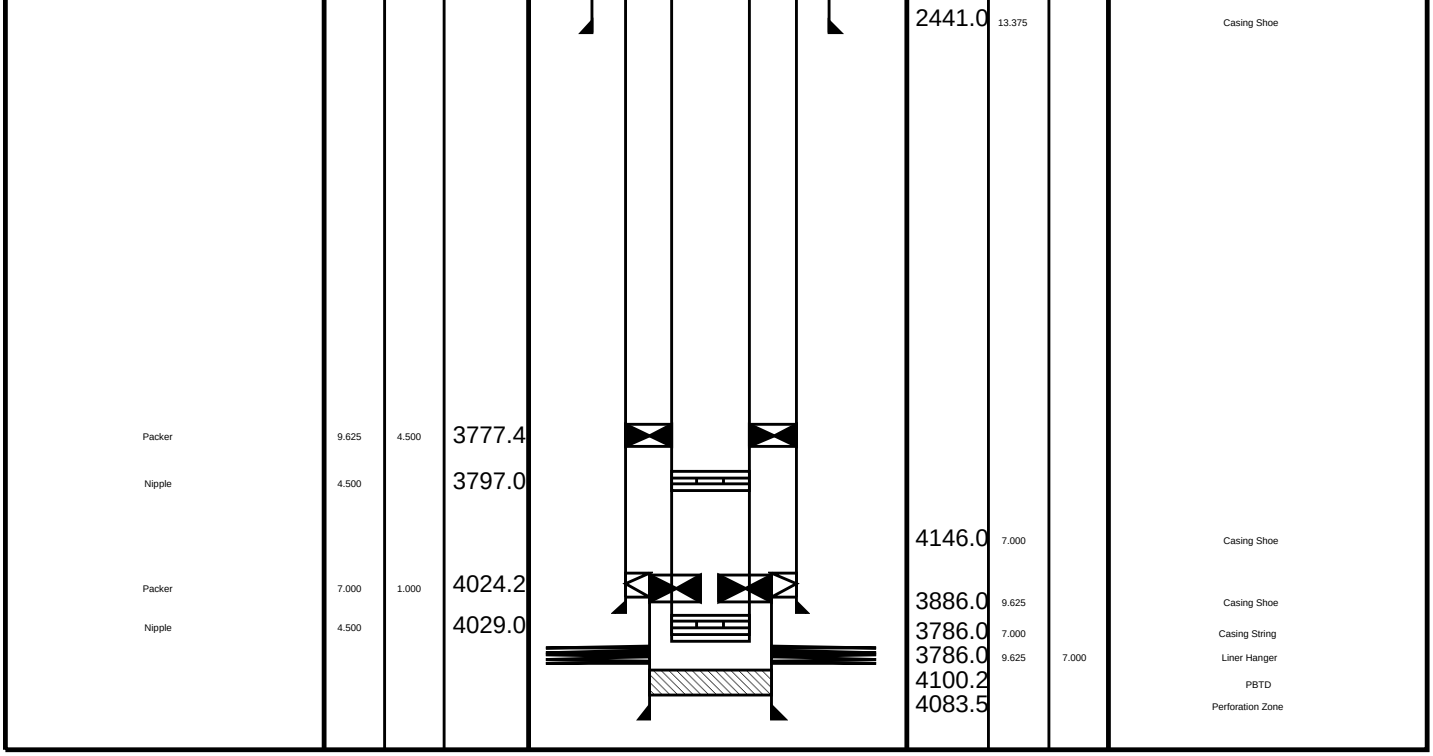
PSC−A 806
PSPT−B 827
PSTC 806
PBMS−B 827
CQG_F_Mano 827
RTD_Thermometer 827
GR 827
CCL 827
PBMS 827

GR — 3.73



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

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String
Tubing	4.500		12.8		16.0	18.000		Casing String
Tubing Hanger	9.625	4.500	11.0		16.0	18.000	19.625	Liner Hanger
Shutin Valve	4.500		457.0					
					687.0	16.000		Casing Shoe
Gas Lift Mandrel	4.500		969.0					
Gas Lift Mandrel	4.500		1874.3					
Nipple	4.500		1890.0					



Schlumberger

Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Simulated Log	6−Sep−2008 6:47	000:25		FCS_ILS_PSP_006LUP
Log Pass (down)	6−Sep−2008 7:14	001:36	−1.7 − 3926.4	FCS_ILS_PSP_007LDP
Log Pass (down)	6−Sep−2008 8:50	000:09	3932.8 − 4112.2	FCS_ILS_PSP_008LDP
Log Pass (up)	6−Sep−2008 9:03	000:09	4112.2 − 3945.0	FCS_ILS_PSP_009LUP
Station Log	6−Sep−2008 9:33	005:11	4070.0 − 47.3	FCS_ILS_PSP_011LTP
Station Log	6−Sep−2008 14:47	000:08	4095.0 − 1.2	FCS_ILS_PSP_012LTP
Log Pass (up)	6−Sep−2008 14:57	000:14	4105.8 − 4040.0	FCS_ILS_PSP_013LUP
Log Pass (down)	6−Sep−2008 15:12	000:07	4035.1 − 4107.0	FCS_ILS_PSP_014LDP
Log Pass (up)	6−Sep−2008 15:19	000:07	4107.0 − 4037.1	FCS_ILS_PSP_015LUP
Log Pass (down)	6−Sep−2008 15:26	000:04	4037.8 − 4100.3	FCS_ILS_PSP_016LDP
Log Pass (up)	6−Sep−2008 15:31	000:03	4100.3 − 4039.4	FCS_ILS_PSP_017LUP
Log Pass (down)	6−Sep−2008 15:34	000:03	4034.5 − 4100.3	FCS_ILS_PSP_018LDP
Log Pass (down)	6−Sep−2008 15:38	000:11	4042.6 − 4102.0	FCS_ILS_PSP_019LDP
Log Pass (up)	6−Sep−2008 15:50	000:03	4102.0 − 4043.8	FCS_ILS_PSP_020LUP
Log Pass (up)	6−Sep−2008 17:18	000:14	111.7 − −6.1	FCS_ILS_PSP_024LUP

Schlumberger

Single Pass Interpretation

MAXIS Field Log

Company: Esso Australia Pty Ltd. **Well: A−6**

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_077LUP		PRODUCER	08−Sep−2008 06:37	4107.0 M	4035.1 M

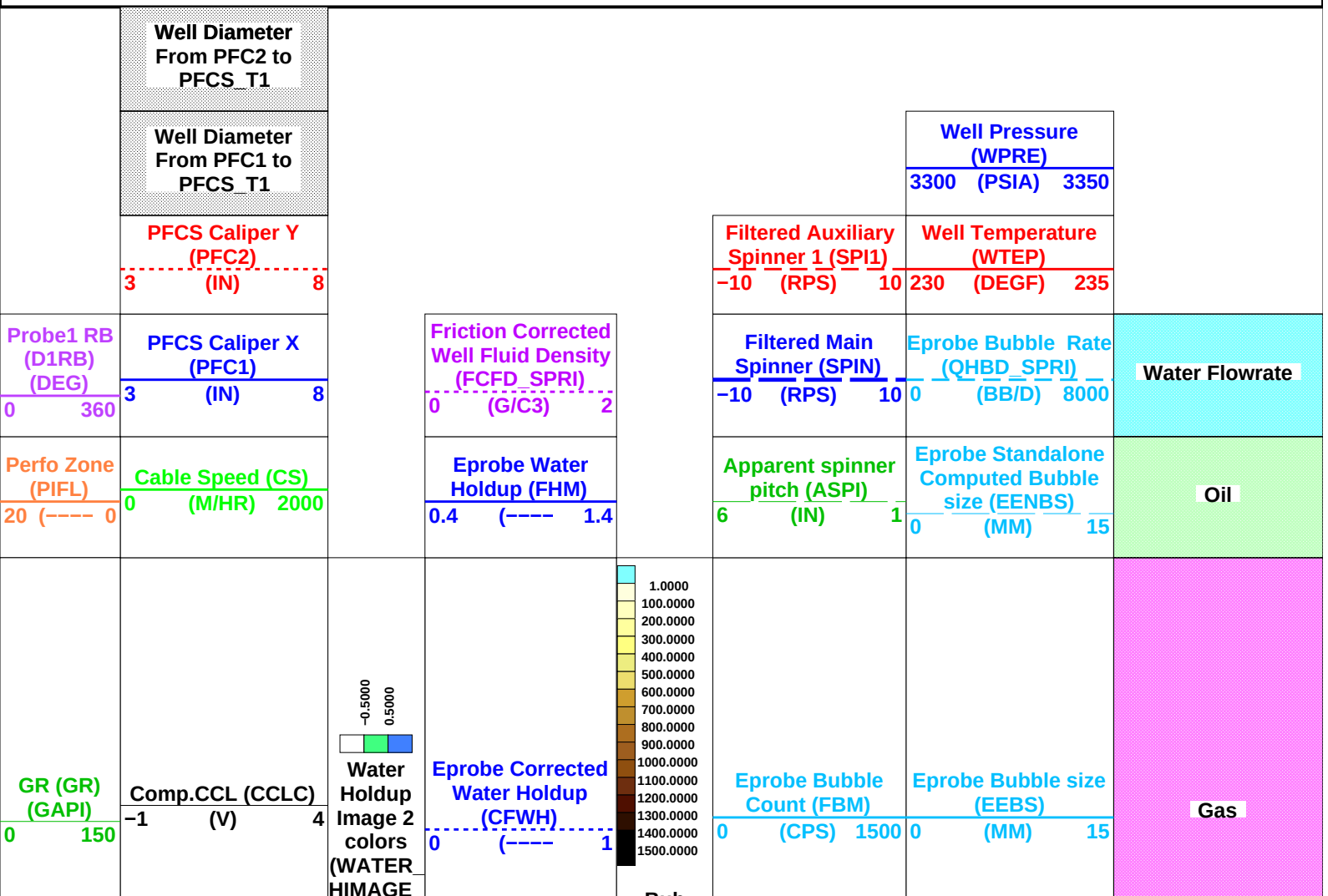
Output DLIS Files

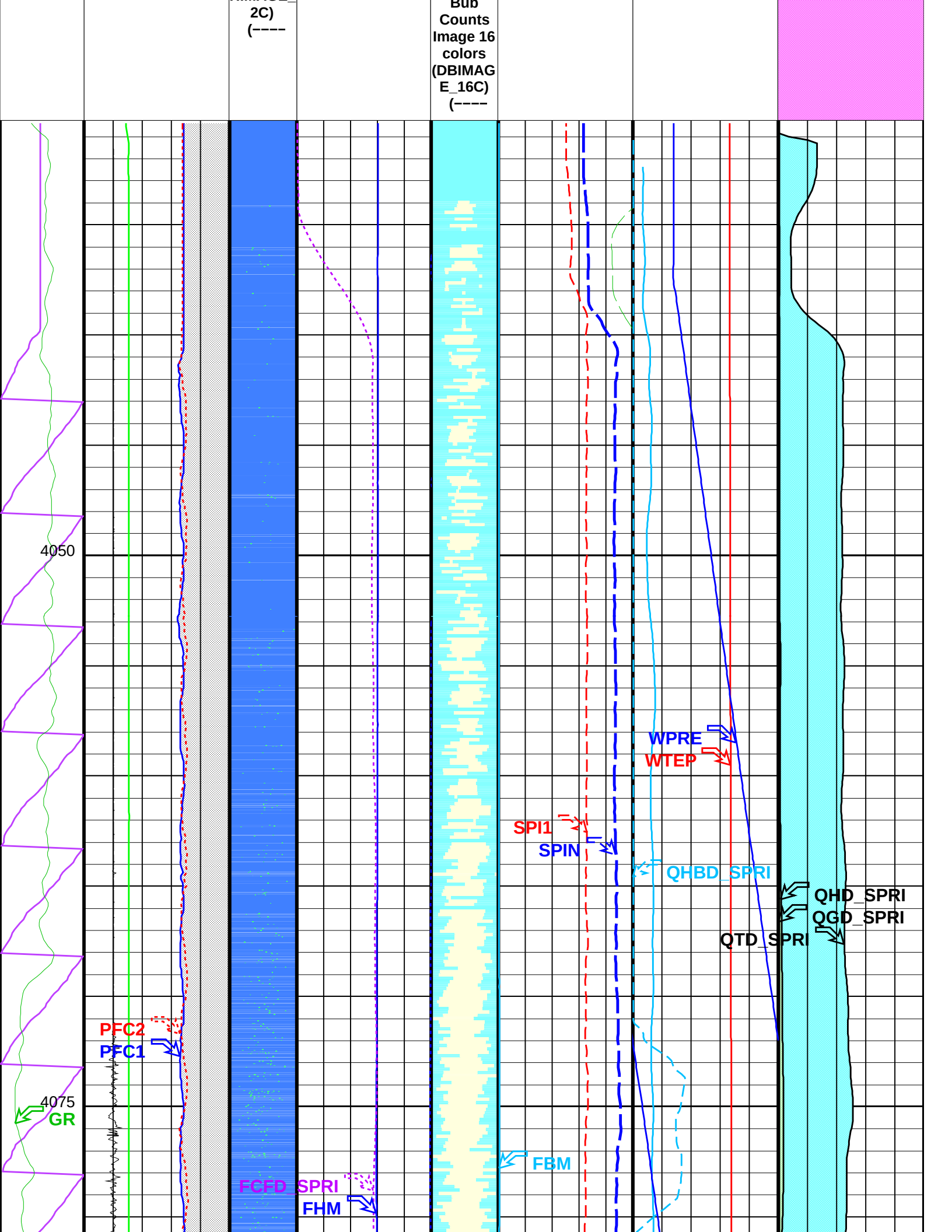
DEFAULT	FCS_ILS_PSP_080PUP	FN:70	PRODUCER	08−Sep−2008 06:45	4101.7 M	4030.2 M

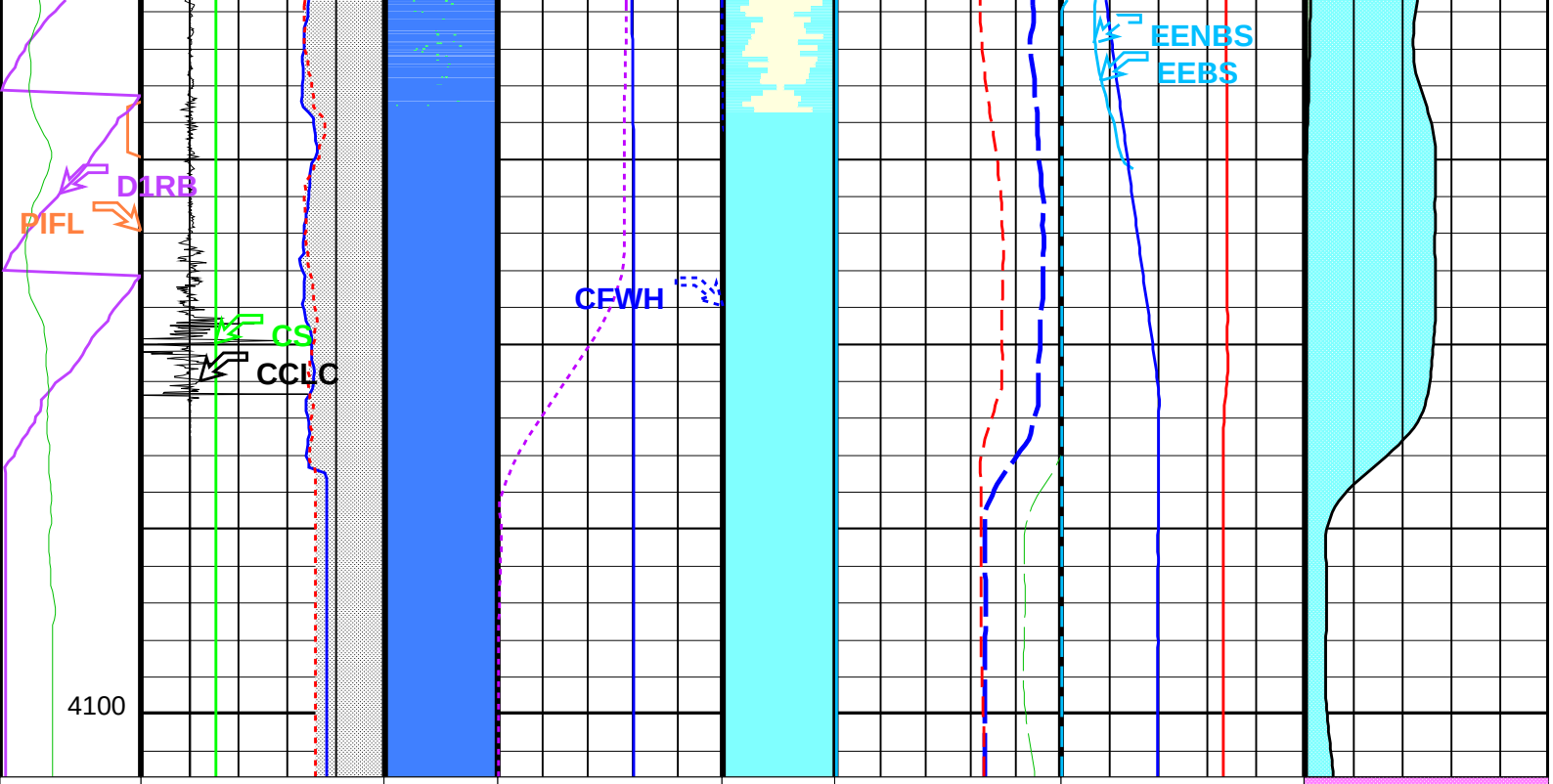
OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		




2C)
(----
Bub
Counts
Image 16
colors
(DBIMAG
E_16C)
(----
4050
4075
GR
PFC2
PFC1
FCFD_SPRI
FHM
FBM
SPI1
SPIN
WPRE
WTEP
QHBD_SPRI
QHD_SPRI
QGD_SPRI
QTD_SPRI



GR (GR) (GAPI)	Comp.CCL (CCLC)	Water Holdup Image 2 colors (WATER_HIMAGE_2C)	Eprobe Corrected Water Holdup (CFWH)	Bub Counts Image 16 colors (DBIMAGE_16C)	Eprobe Bubble Count (FBM)	Eprobe Bubble size (EEBS)	Gas
0 150	−1 (V) 4	−0.5000 0.5000	0 (---- 1	1.0000 100.0000 200.0000 300.0000 400.0000 500.0000 600.0000 700.0000 800.0000 900.0000 1000.0000 1100.0000 1200.0000 1300.0000 1400.0000 1500.0000	0 (CPS) 1500	0 (MM) 15	
Perfo Zone (PIFL)	Cable Speed (CS)		Eprobe Water Holdup (FHM)		Apparent spinner pitch (ASPI)	Eprobe Standalone Computed Bubble size (EENBS)	Oil
20 (---- 0	0 (M/HR) 2000		0.4 (---- 1.4		6 (IN) 1	0 (MM) 15	
Probe1 RB (D1RB) (DEG)	PFCS Caliper X (PFC1)		Friction Corrected Well Fluid Density (FCFD_SPRI)		Filtered Main Spinner (SPIN)	Eprobe Bubble Rate (QHBD_SPRI)	Water Flowrate
0 360	3 (IN) 8		0 (G/C3) 2		−10 (RPS) 10	0 (BB/D) 8000	
	PFCS Caliper Y (PFC2)				Filtered Auxiliary Spinner 1 (SPI1)	Well Temperature (WTEP)	
	3 (IN) 8				−10 (RPS) 10	230 (DEGF) 235	
	Well Diameter From PFC1 to PFCS_T1					Well Pressure (WPRE)	
						3300 (PSIA) 3350	
	Well Diameter From PFC2 to PFCS_T1						

Format: SPRINT_PFCSImage_DL Vertical Scale: 1:200 Graphics File Created: 08−Sep−2008 06:45

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value	
	PFCS−A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	6.276	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2−D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DFFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP	Probes Arm Position	C	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PILS−A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PSPT−A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	6.276	IN
GDEV	Average Angular Deviation of Borehole from Normal	50	DEG
	SPRI: Single Pass Rate Interpretation		
DENS_SEL	SPRint Density Selector	MWFD	
DGHC	Deft Ghost Probe Holdup Correction	MANU	
ESBS	Electrical−probe Stand−alone Bubble Size	0.06	IN
FLOWVIEW_FLAG	FlowView Water Holdup Used Flag	YES	
GDD_SPRI	Gas Downhole Density	0.15	G/C3
GFECF	Gradio Friction Effect Correction Factor	1	
GHCF	GHOST Gas Holdup Correction Factor	0	
GHOST_FLAG	Ghost Gas Holdup Used Flag	NO	
GOR_SPRI	Gas Oil Ratio	89.0538	M3M3
GRADIO_FLAG	Gradiomaometer Holdup Used Flag	NO	
ODD_SPRI	Oil Downhole Density	0.8	G/C3
OGRA_SPRI	Gravity of Oil	40	DAPI
OSBS	Optical−probe Stand−alone Bubble Size	0.06	IN
PVT_DDENS_FLAG	Compute Downhole Densities from PVT Data	NO	
SEFF	Spinner Efficiency	1	
SPINNER_PITCH	Spinner Pitch	2.5	IN
SPIN_SEL	SPRint Spinner Selector	SPIN	
SPRI_INTPR_TYPE	SPRInt Type of Interpretation	WATER_OIL_FLOW	
SURFACE_SPRI	Surface Flowrates Computation	NO	
THRE	Spinner Threshold	1.2192	M/MN
WDD_SPRI	Water Downhole Density	1	G/C3
WHCF	PFCS/DEFT Water Holdup Correction Factor	0	
WSAL_SPRI	Water Salinity	50000	PPM
	BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	6.276	IN
	System and Miscellaneous		
DO	Depth Offset for Playback	−5.4	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_077LUP		PRODUCER	08−Sep−2008 06:37	4107.0 M	4035.1 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_080PUP	FN:70	PRODUCER	08−Sep−2008 06:45

Schlumberger

Spinner Multipass
Static & Flowing

Company: Esso Australia Pty Ltd. Well: A−6

Company: Esso Australia Pty Ltd. Well: A−6

PLQL Data Manager Files

Pass # 1
Pass # 2
Pass # 3
Pass # 4
Pass # 5
Pass # 6
Pass # 7
Pass # 8

Company: Esso Australia Pty Ltd. Well: A−6

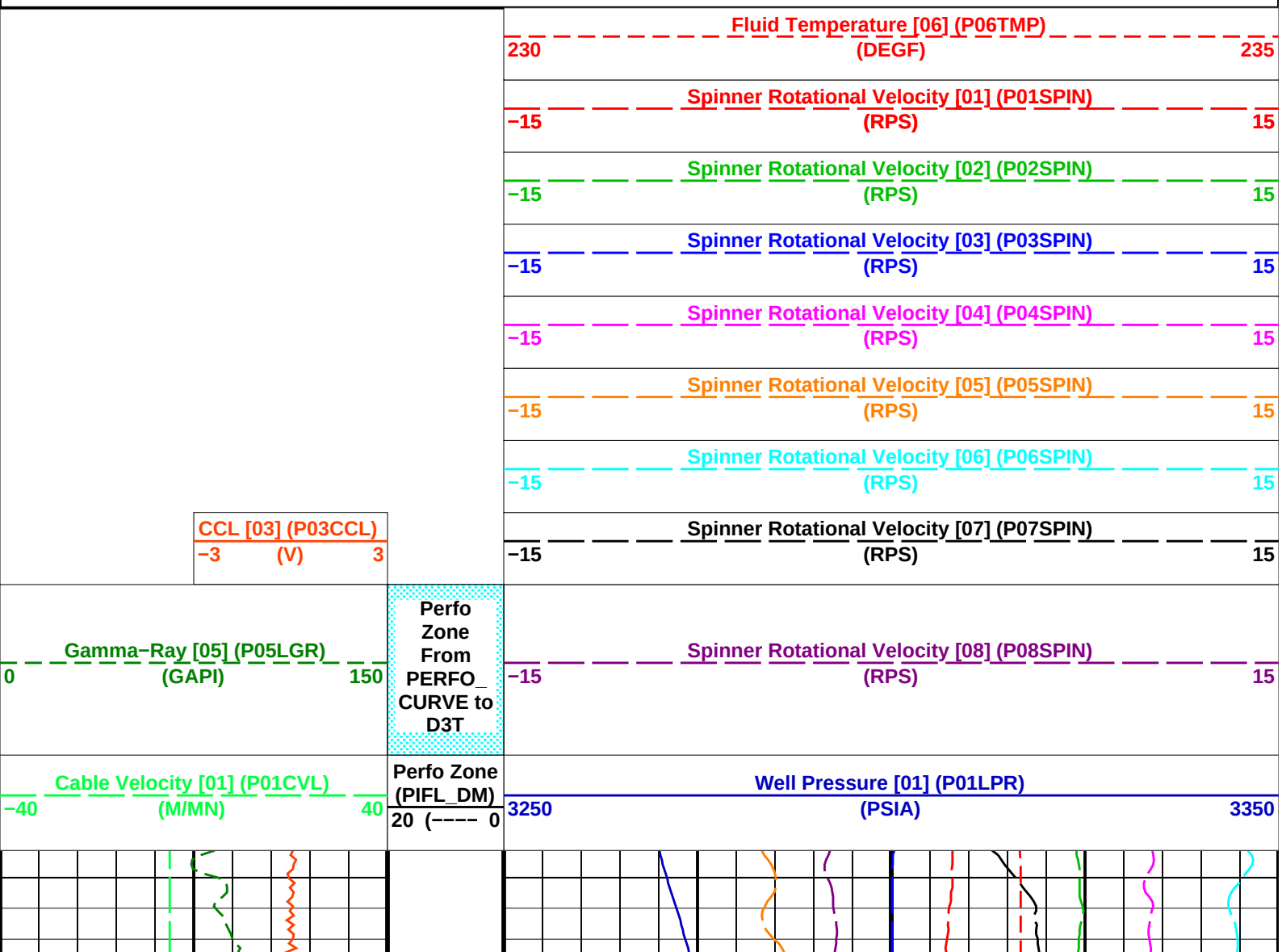
Output DLIS Files

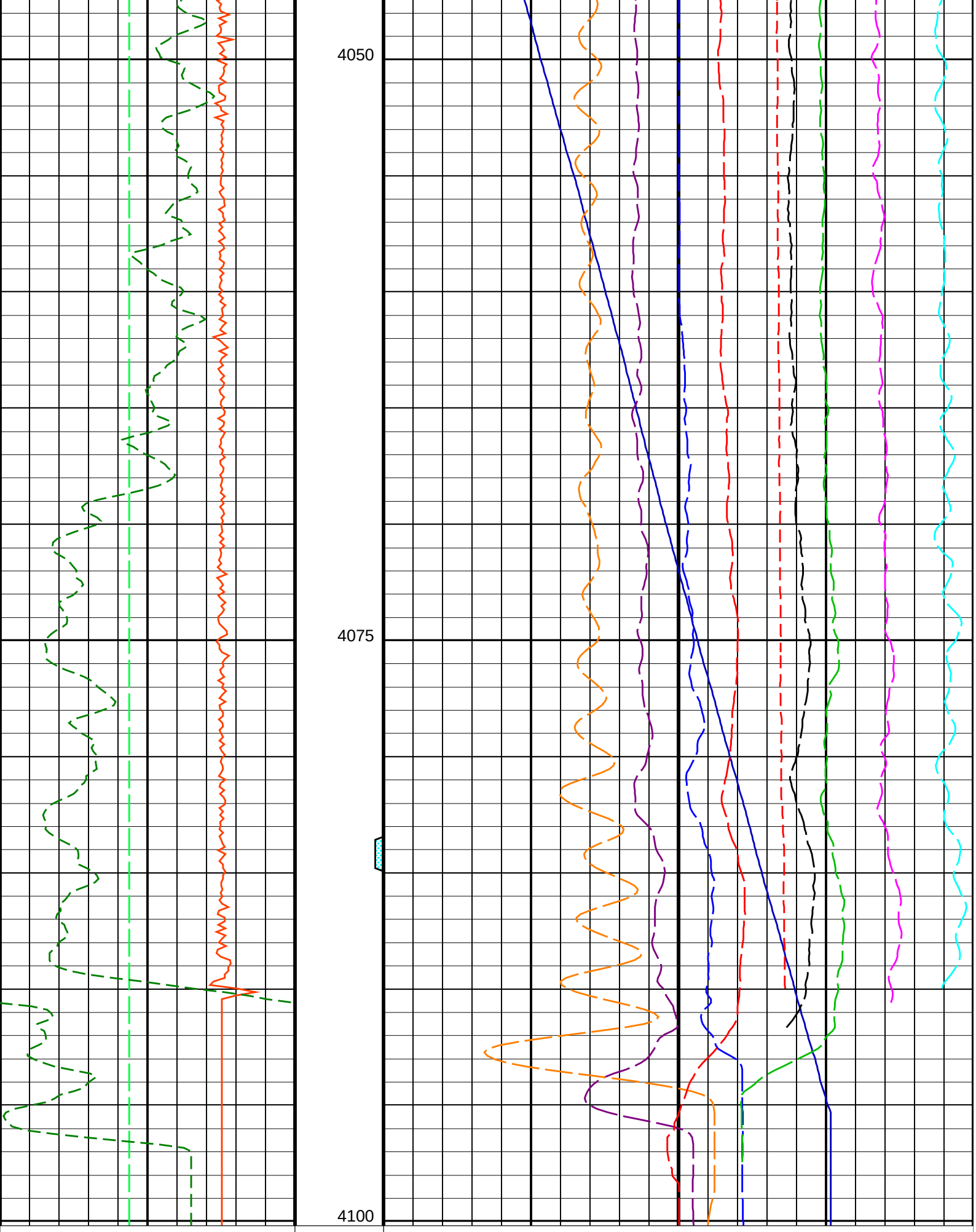
DEFAULT	FCS_ILS_PSP_076PUP	FN:67	PRODUCER	08−Sep−2008 06:34	4100.2 M	4044.1 M

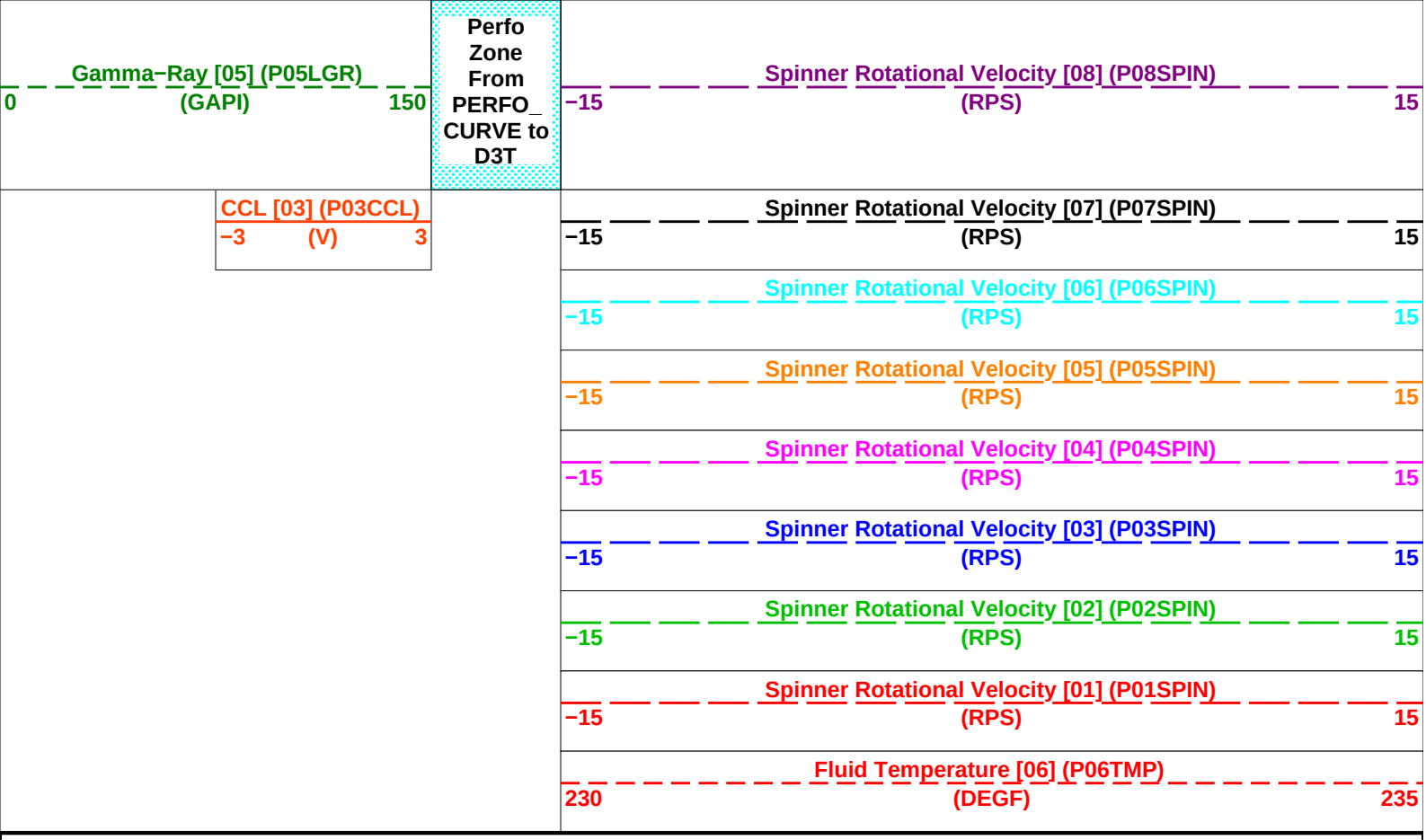
OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		




4050
4075
4100
Cable Velocity [01] (P01CVL)
−40
(M/MN)
40
Perfo Zone
(PIFL_DM)
20 (−−−− 0
Well Pressure [01] (P01LPR)
3250
(PSIA)
3350



Parameters

DLIS Name	Description	Value	
	PFCS-A: PSP Flow and caliper Tool		
CSID	Casing Size I.D.	6.276	IN
	PSPT-A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	6.276	IN
	BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	6.276	IN
	PLQL: Production Logging Quick Look		
CCLS	CCL Selector	CCLC	
FCHD	Cased Hole Diameter Selector	PFC1	
PCVS	CVEL Selector	CVEL	
PGRS	GR Selector	GR	
PGS	Pressure Gauge Selector	WPRE	
PWHS	PLQL Water HoldUp Selector	DFHM	
RHOS	Fluid Density Selector	WFDE	
SPIS	Spinner Selector	SPIN	
TMPS	Temperature Selector	WTEP	

Format: PLQLMultiPassWithInsert_1 Vertical Scale: 1:200 Graphics File Created: 08-Sep-2008 06:34

OP System Version: 15C0-309

MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

Output DLIS Files

DEFAULT	FCS_ILS_PSP_076PUP	FN:67	PRODUCER	08-Sep-2008 06:34

Schlumberger

Log Up Flowing @ 3940 ft/hr

Input DLIS Files

DEFAULT	FCS_ILS_PSP_020LUP	FN:19	PRODUCER	06−Sep−2008 15:50	4102.0 M	4043.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_033PUP	FN:30	PRODUCER	06−Sep−2008 18:45	4101.4 M	4043.6 M

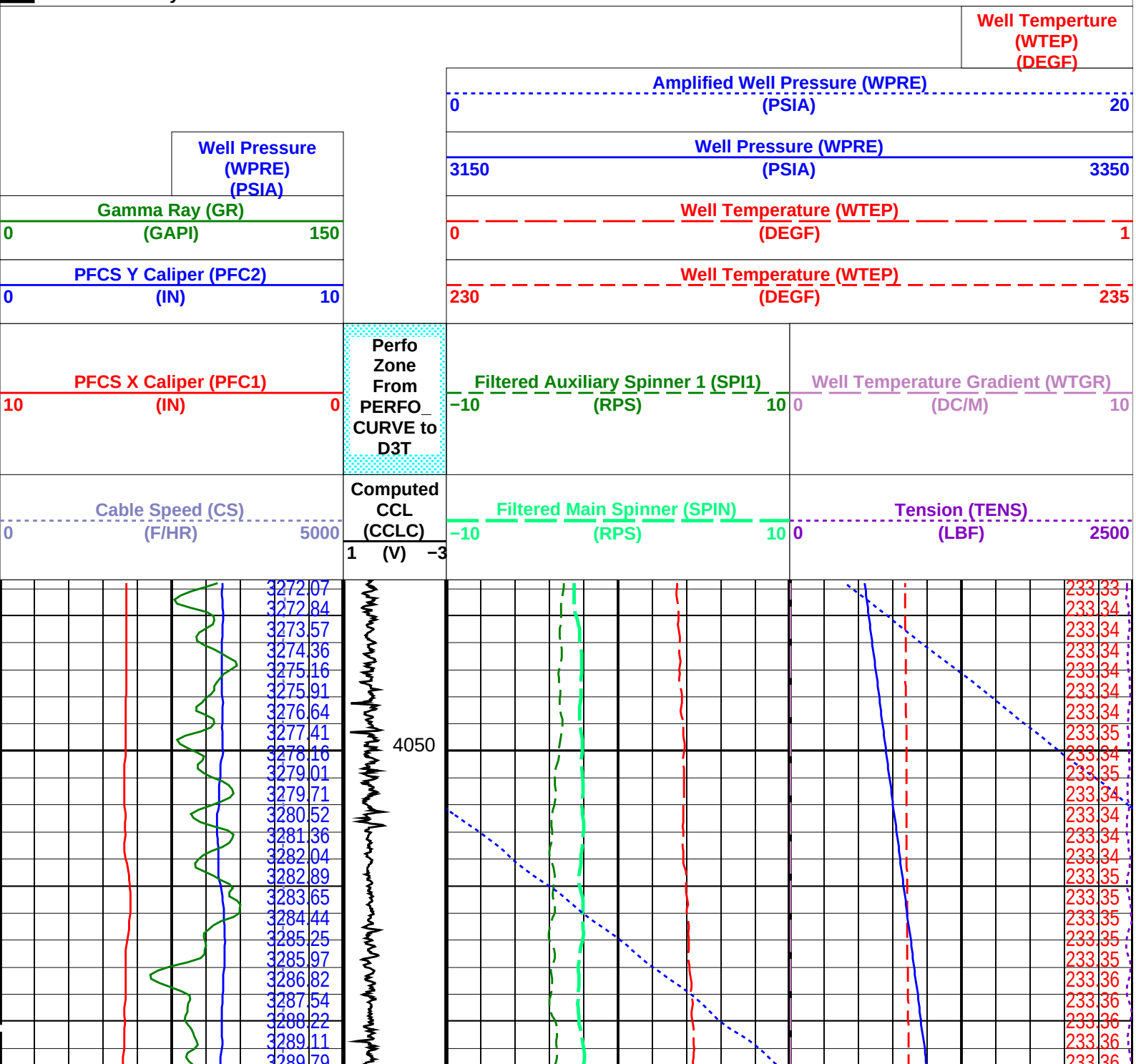
OP System Version: 15C0−309

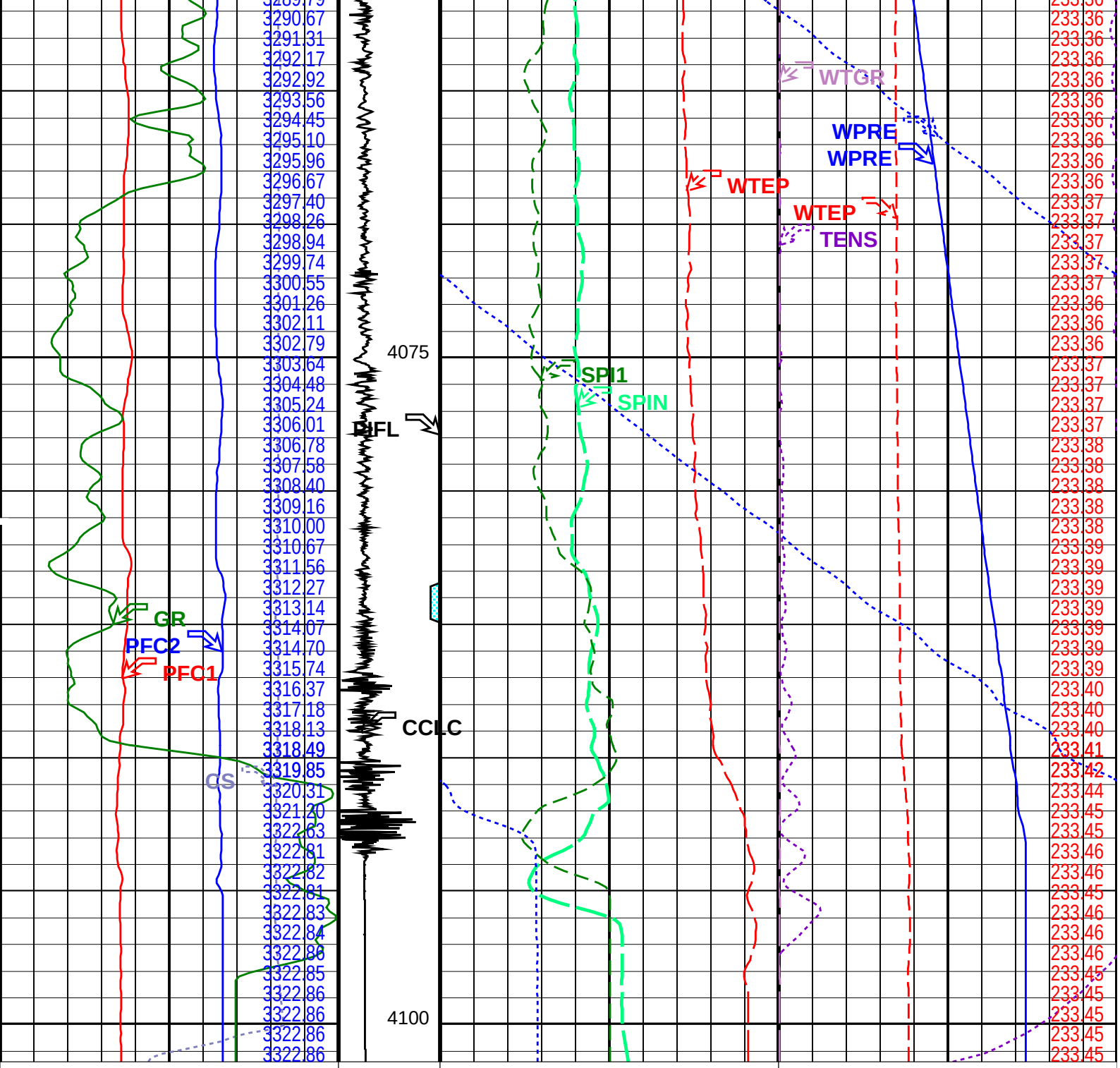
MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

PIP SUMMARY

Time Mark Every 60 S





Cable Speed (CS) 0 (F/HR) 5000	Computed CCL (CCLC) 1 (V) −3	Filtered Main Spinner (SPIN) −10 (RPS) 10
Tension (TENS) 0 (LBF) 2500		
PFCS X Caliper (PFC1) 10 (IN) 0	Perfo Zone From PERFO_ CURVE to D3T	Filtered Auxiliary Spinner 1 (SPI1) −10 (RPS) 10
Well Temperature Gradient (WTGR) 0 (DC/M) 10		
PFCS Y Caliper (PFC2) 0 (IN) 10		Well Temperature (WTEP) 230 (DEGF) 235
Gamma Ray (GR) 0 (GAPI) 150		Well Temperature (WTEP) 0 (DEGF) 1
Well Pressure (WPRE)		Well Pressure (WPRE) 3150 (PSIA) 3350

(PSIA)

Amplified Well Pressure (WPRE)
0 (PSIA) 20

Well Temperture (WTEP) (DEGF)

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 06−Sep−2008 18:45

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value	
	PFCS−A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PILS−A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	System and Miscellaneous		
DO	Depth Offset for Playback	−0.6	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	FCS_ILS_PSP_020LUP	FN:19	PRODUCER	06−Sep−2008 15:50	4102.0 M	4043.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_033PUP	FN:30	PRODUCER	06−Sep−2008 18:45		

Input DLIS Files

DEFAULT	FCS_ILS_PSP_020LUP	FN:19	PRODUCER	06−Sep−2008 15:50	4102.0 M	4043.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_033PUP	FN:30	PRODUCER	06−Sep−2008 18:45	4101.4 M	4043.6 M

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Pipe Ovalisation Between PFC1 and PFC2

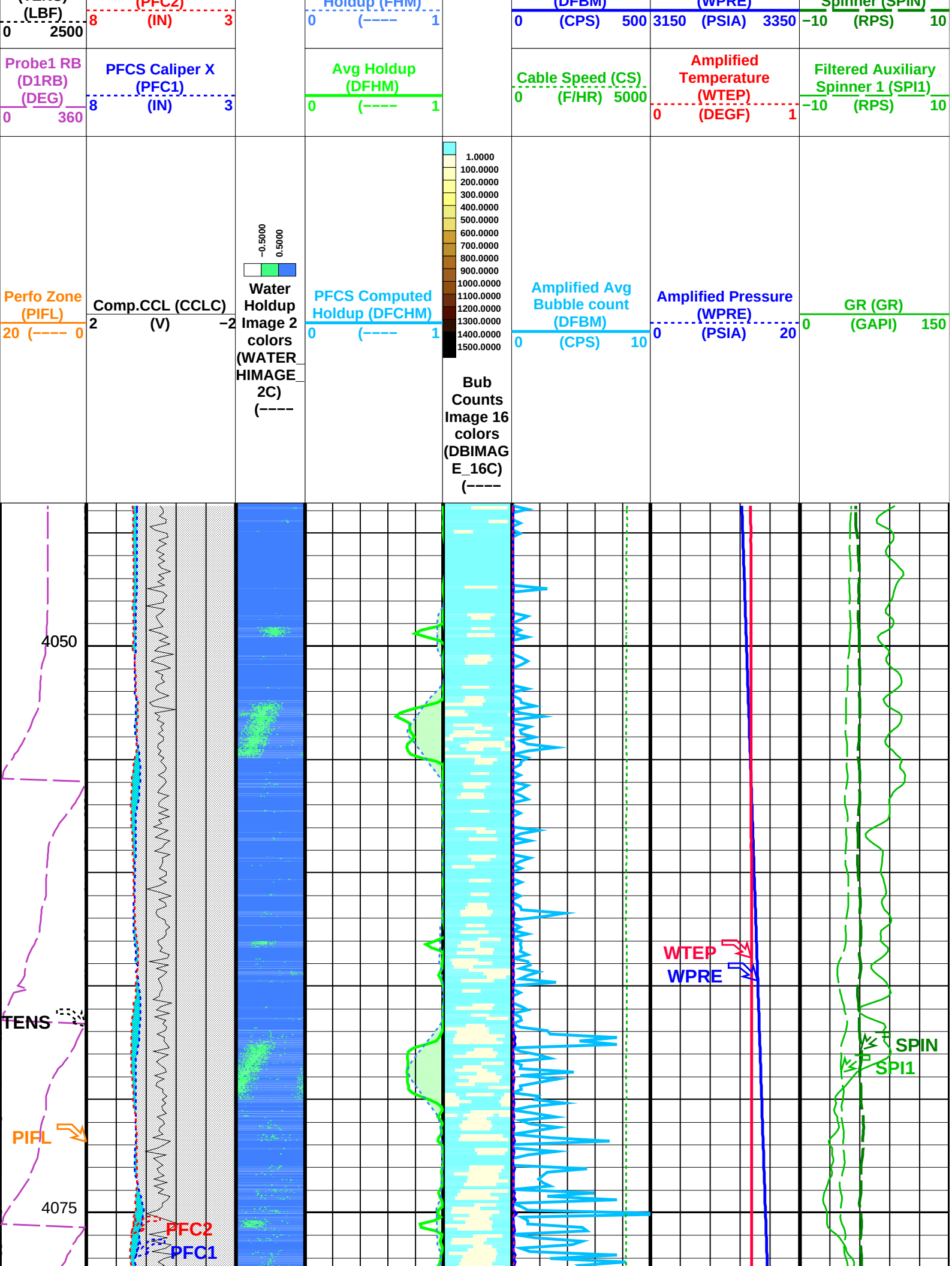
Well Diameter From PFC2 to PFCS_T1

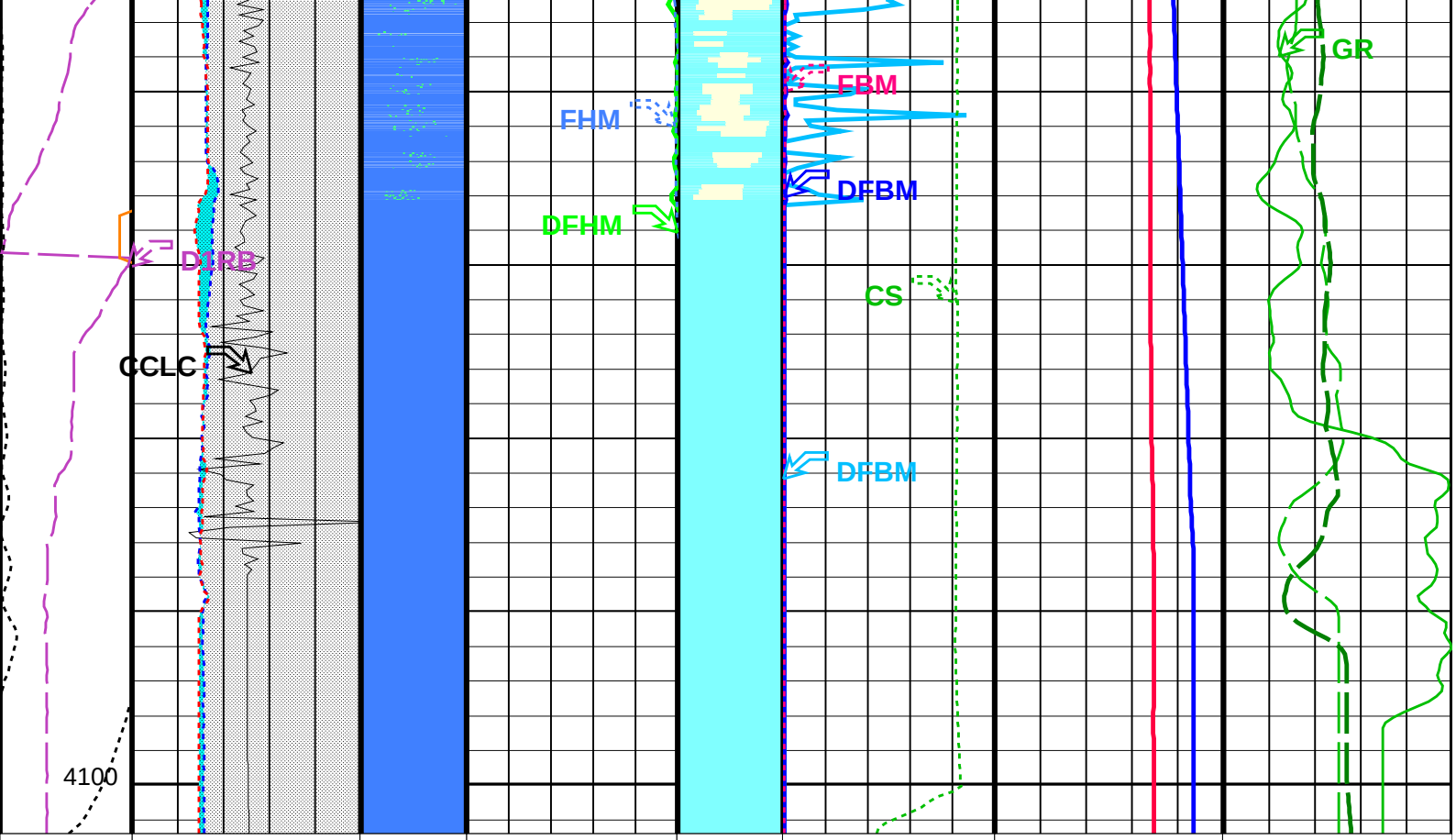
Well Diameter From PFC1 to PFCS_T1

Filtered Bubble Count (FBM)
0 (CPS) 500

Well Temperature (WTEP)
230 (DEGF) 235

Tension (TENS)	PFCS Caliper Y (PFC2)	Filtered Water Holdup (FHM)	Avg BUB count (FBBM)	Well Pressure (WPRE)	Filtered Main Spinner (SPIN)


(LBF)
0 2500
(PFC2)
8 (IN) 3
Holdup (FHM)
0 (---- 1
(DFBM)
0 (CPS) 500
(WPRE)
3150 (PSIA) 3350
Spinner (SPIN)
−10 (RPS) 10
Probe1 RB (D1RB) (DEG)
0 360
PFCS Caliper X (PFC1)
8 (IN) 3
Avg Holdup (DFHM)
0 (---- 1
Cable Speed (CS)
0 (F/HR) 5000
Amplified Temperature (WTEP)
0 (DEGF) 1
Filtered Auxiliary Spinner 1 (SPI1)
−10 (RPS) 10
Perfo Zone (PIFL)
20 (---- 0
Comp.CCL (CCLC)
2 (V) −2
−0.5000
0.5000
Water Holdup Image 2 colors (WATER_HIMAGE_2C) (----
PFCS Computed Holdup (DFCHM)
0 (---- 1
1.0000
100.0000
200.0000
300.0000
400.0000
500.0000
600.0000
700.0000
800.0000
900.0000
1000.0000
1100.0000
1200.0000
1300.0000
1400.0000
1500.0000
Bub Counts Image 16 colors (DBIMAGE_16C) (----
Amplified Avg Bubble count (DFBM)
0 (CPS) 10
Amplified Pressure (WPRE)
0 (PSIA) 20
GR (GR)
0 (GAPI) 150
4050
TENS
PIFL
4075
PFC2
PFC1
WTEP
WPRE
SPIN
SPI1



Perfo Zone (PIFL) 20 (---- 0	Comp.CCL (CCLC) 2 (V) −2	−0.5000 0.5000 Water Holdup Image 2 colors (WATER_HIMAGE_2C) (----	PFCS Computed Holdup (DFCHM) 0 (---- 1	1.0000 100.0000 200.0000 300.0000 400.0000 500.0000 600.0000 700.0000 800.0000 900.0000 1000.0000 1100.0000 1200.0000 1300.0000 1400.0000 1500.0000 Bub Counts Image 16 colors (DBIMAGE_16C) (----	Amplified Avg Bubble count (DFBM) 0 (CPS) 10	Amplified Pressure (WPRE) 0 (PSIA) 20	GR (GR) 0 (GAPI) 150
Probe1 RB (D1RB) (DEG) 0 360	PFCS Caliper X (PFC1) 8 (IN) 3		Avg Holdup (DFHM) 0 (---- 1		Cable Speed (CS) 0 (F/HR) 5000	Amplified Temperature (WTEP) 0 (DEGF) 1	Filtered Auxiliary Spinner 1 (SPI1) −10 (RPS) 10
Tension (TENS) (LBF) 0 2500	PFCS Caliper Y (PFC2) 8 (IN) 3		Filtered Water Holdup (FHM) 0 (---- 1		Avg BUB count (DFBM) 0 (CPS) 500	Well Pressure (WPRE) 3150 (PSIA) 3350	Filtered Main Spinner (SPIN) −10 (RPS) 10
	Well Diameter From PFC1 to PFCS_T1				Filtered Bubble Count (FBM) 0 (CPS) 500	Well Temperature (WTEP) 230 (DEGF) 235	
	Well Diameter From PFC2 to PFCS_T1						
	Pipe Ovalisation Between PFC1 and						

Between PFC1 and PFC2

Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 06−Sep−2008 18:45

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value	
	PFCS−A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	6.276	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2−D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DFFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP	Probes Arm Position	C	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PILS−A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PSPT−A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	6.276	IN
	BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	6.276	IN
	System and Miscellaneous		
CSIZ	Current Casing Size	7.000	IN
DO	Depth Offset for Playback	−0.6	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	FCS_ILS_PSP_020LUP	FN:19	PRODUCER	06−Sep−2008 15:50	4102.0 M	4043.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_033PUP	FN:30	PRODUCER	06−Sep−2008 18:45		

Schlumberger

Log Down Flowing @ 3940 ft/hr

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_034LUP		PRODUCER	06−Sep−2008 18:47	4100.3 M	4037.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_037PUP	FN:31	PRODUCER	06−Sep−2008 18:49	4095.0 M	4033.0 M

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

PIP SUMMARY

Time Mark Every 60 S

Well Temperture (WTEP) (DEGF)

Amplified Well Pressure (WPRE)
0 (PSIA) 20

Well Pressure (WPRE) (PSIA)

Well Pressure (WPRE)
3150 (PSIA) 3350

Gamma Ray (GR)
0 (GAPI) 150

Well Temperature (WTEP)
0 (DEGF) 1

PFCS Y Caliper (PFC2)
0 (IN) 10

Well Temperature (WTEP)
230 (DEGF) 235

PFCS X Caliper (PFC1)
10 (IN) 0

Perfo Zone From PERFO_CURVE to D3T

Filtered Auxiliary Spinner 1 (SPI1)
−10 (RPS) 10

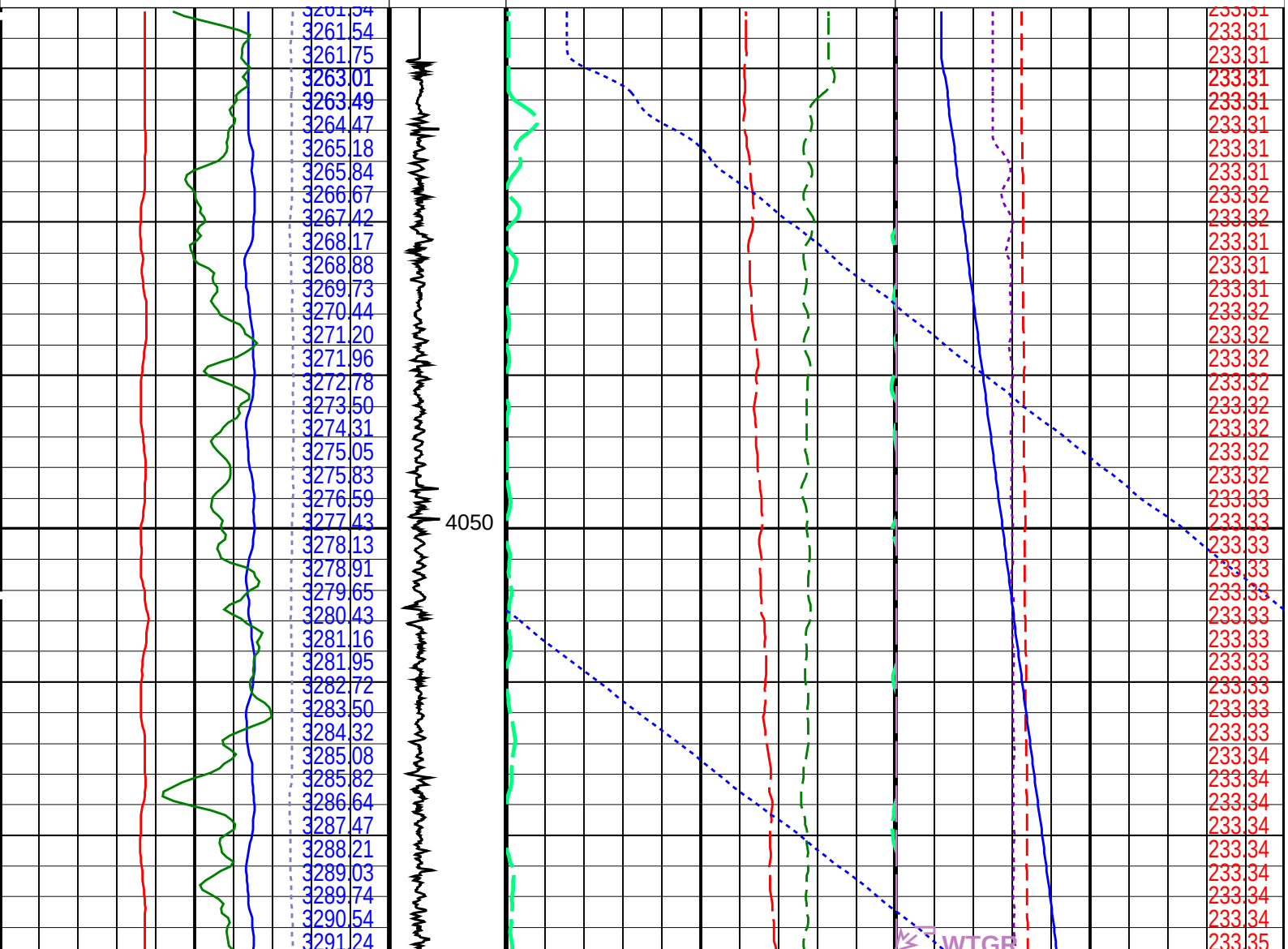
Well Temperature Gradient (WTGR)
0 (DC/M) 10

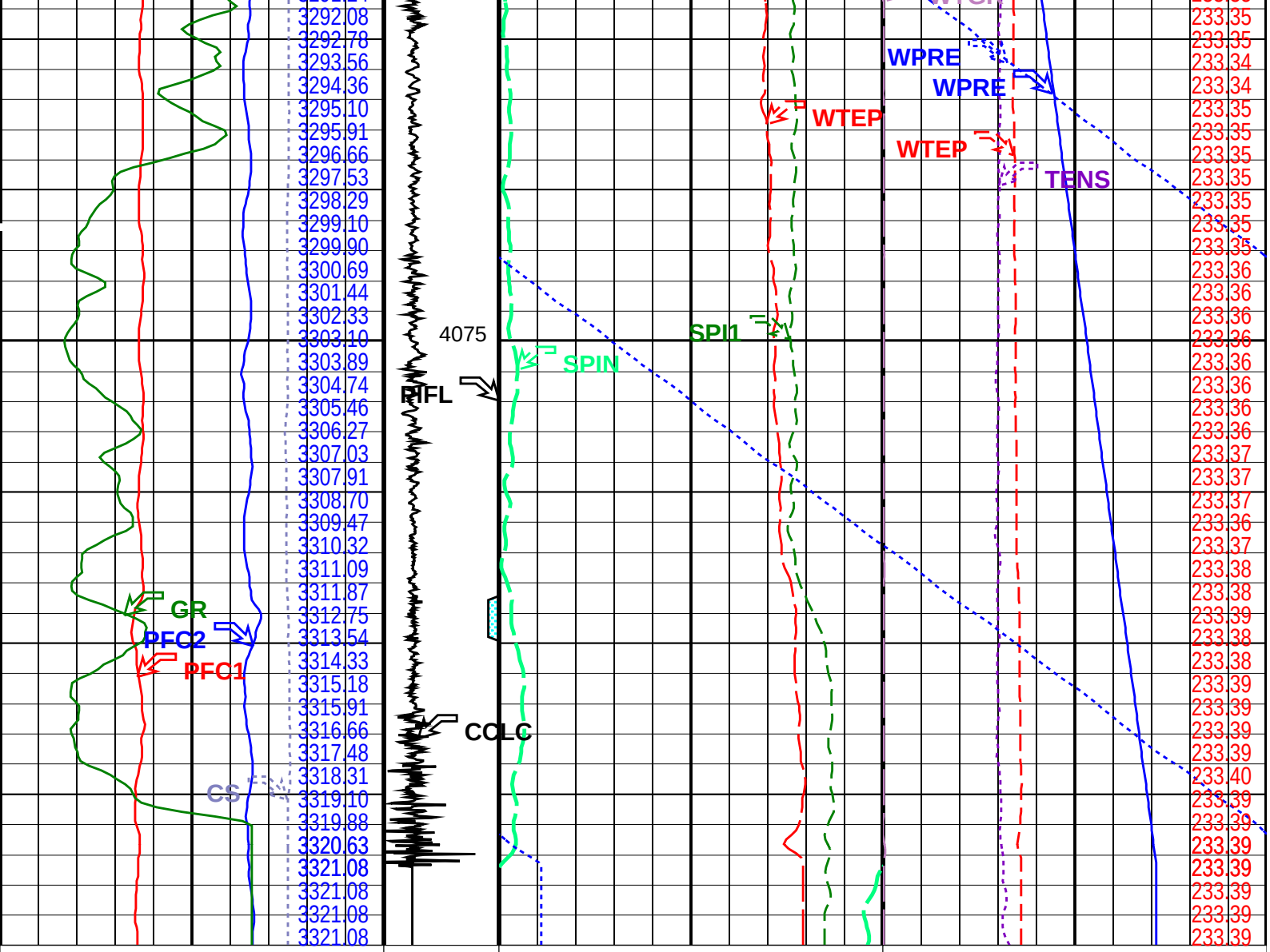
Cable Speed (CS)
0 (F/HR) 5000

Computed CCL (CCLC)
1 (V) −3

Filtered Main Spinner (SPIN)
−10 (RPS) 10

Tension (TENS)
0 (LBF) 2500





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

Computed CCL (CCLC)
1 (V) −3

Filtered Main Spinner (SPIN)
−10 (RPS) 10

Tension (TENS)
0 (LBF) 2500

PFCS X Caliper (PFC1)
10 (IN) 0

Perfo Zone From PERFO_ CURVE to D3T

Filtered Auxiliary Spinner 1 (SPI1)
−10 (RPS) 10

Well Temperature Gradient (WTGR)
0 (DC/M) 10

PFCS Y Caliper (PFC2)
0 (IN) 10

Well Temperature (WTEP)
230 (DEGF) 235

Gamma Ray (GR)
0 (GAPI) 150

Well Temperature (WTEP)
0 (DEGF) 1

Well Pressure (WPRE) (PSIA)

Well Pressure (WPRE)
3150 (PSIA) 3350

Amplified Well Pressure (WPRE)
0 (PSIA) 20

Well Temperture (WTEP) (DEGF)

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 06−Sep−2008 18:49

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value	
	PFCS−A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PILS−A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	System and Miscellaneous		
DO	Depth Offset for Playback	−5.4	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_034LUP		PRODUCER	06−Sep−2008 18:47	4100.3 M	4037.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_037PUP	FN:31	PRODUCER	06−Sep−2008 18:49		

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_034LUP		PRODUCER	06−Sep−2008 18:47	4100.3 M	4037.8 M

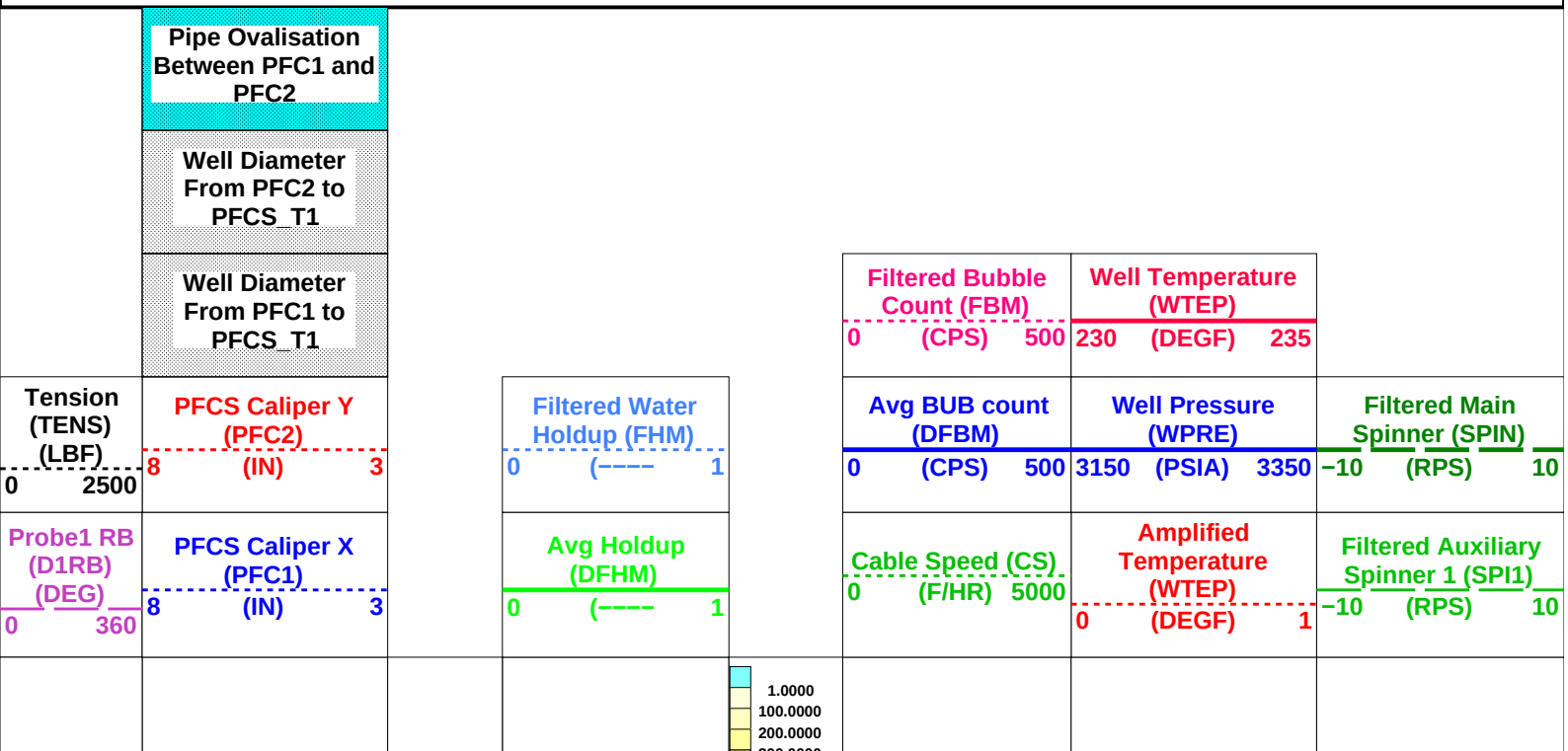
Output DLIS Files

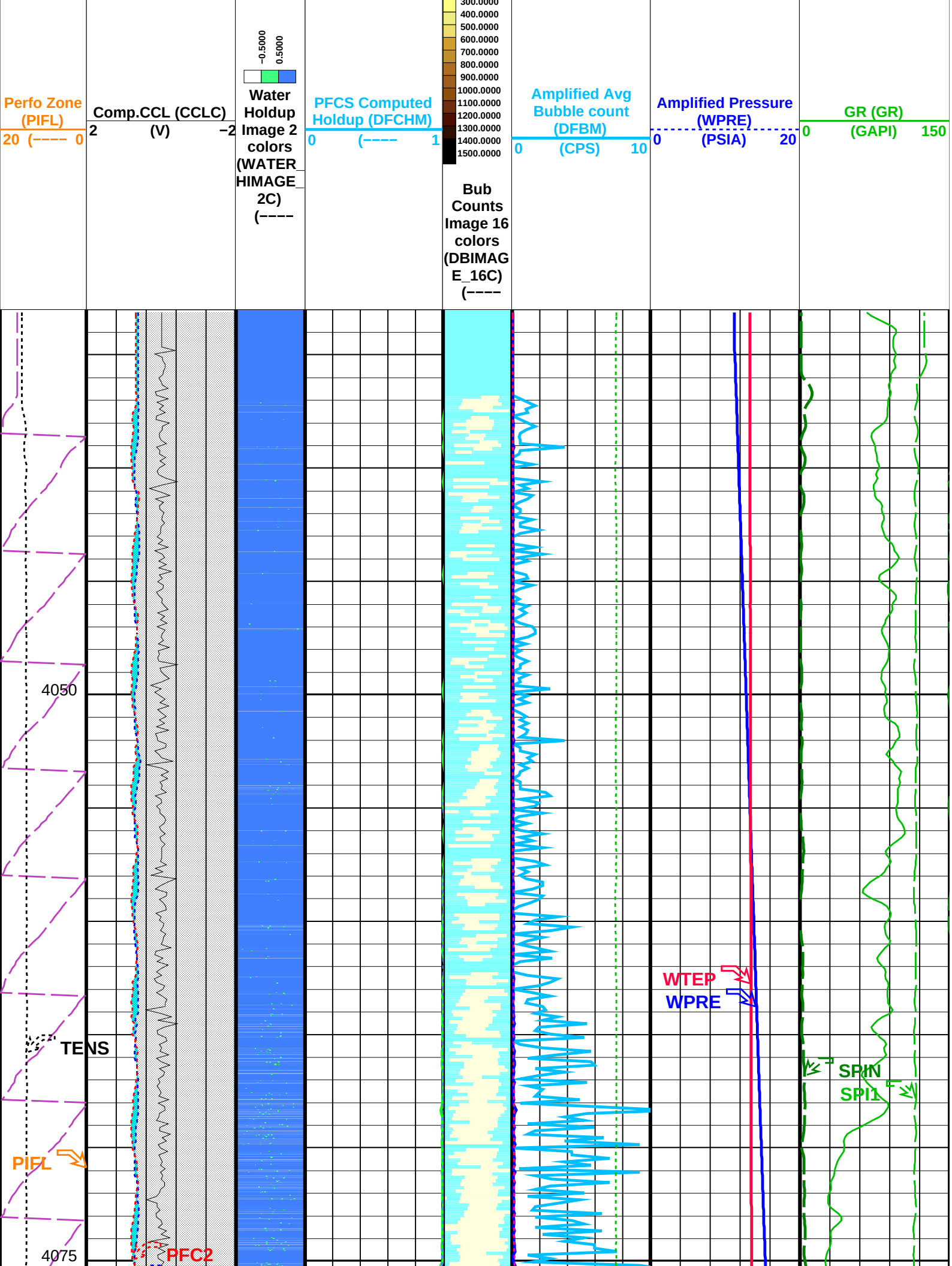
DEFAULT	FCS_ILS_PSP_037PUP	FN:31	PRODUCER	06−Sep−2008 18:49	4095.0 M	4033.0 M

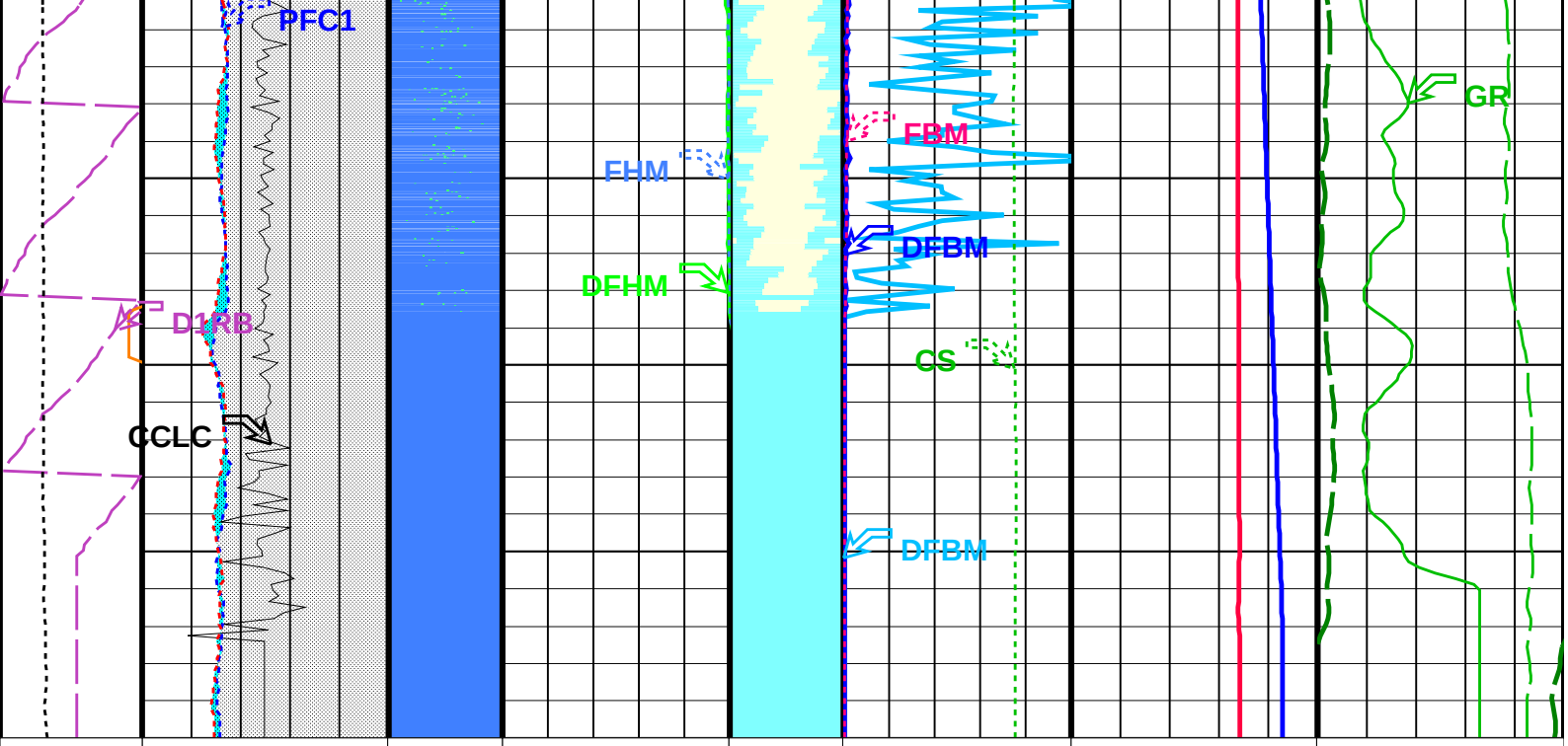
OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		




Perfo Zone (PIFL)
20 (---- 0
Comp.CCL (CCLC)
2 (V) −2
−0.5000
0.5000
Water Holdup Image 2 colors (WATER_HIMAGE_2C) (----
PFCS Computed Holdup (DFCHM)
0 (---- 1
300.0000
400.0000
500.0000
600.0000
700.0000
800.0000
900.0000
1000.0000
1100.0000
1200.0000
1300.0000
1400.0000
1500.0000
Bub Counts Image 16 colors (DBIMAGE_16C) (----
Amplified Avg Bubble count (DFBM)
0 (CPS) 10
Amplified Pressure (WPRE)
0 (PSIA) 20
GR (GR)
0 (GAPI) 150
4050
TENS
PIFL
4075
PFC2
WTEP
WPRE
SPIN
SPI1



Perfo Zone (PIFL) 20 (---- 0	Comp.CCL (CCLC) 2 (V) −2	−0.5000 0.5000 Water Holdup Image 2 colors (WATER_HIMAGE_2C) (----	PFCS Computed Holdup (DFCHM) 0 (---- 1	1.0000 100.0000 200.0000 300.0000 400.0000 500.0000 600.0000 700.0000 800.0000 900.0000 1000.0000 1100.0000 1200.0000 1300.0000 1400.0000 1500.0000 Bub Counts Image 16 colors (DBIMAGE_16C) (----	Amplified Avg Bubble count (DFBM) 0 (CPS) 10	Amplified Pressure (WPRE) 0 (PSIA) 20	GR (GR) 0 (GAPI) 150
Probe1 RB (D1RB) (DEG) 0 360	PFCS Caliper X (PFC1) 8 (IN) 3		Avg Holdup (DFHM) 0 (---- 1		Cable Speed (CS) 0 (F/HR) 5000	Amplified Temperature (WTEP) 0 (DEGF) 1	Filtered Auxiliary Spinner 1 (SPI1) −10 (RPS) 10
Tension (TENS) (LBF) 0 2500	PFCS Caliper Y (PFC2) 8 (IN) 3		Filtered Water Holdup (FHM) 0 (---- 1		Avg BUB count (DFBM) 0 (CPS) 500	Well Pressure (WPRE) 3150 (PSIA) 3350	Filtered Main Spinner (SPIN) −10 (RPS) 10
	Well Diameter From PFC1 to PFCS_T1				Filtered Bubble Count (FBM) 0 (CPS) 500	Well Temperature (WTEP) 230 (DEGF) 235	
	Well Diameter From PFC2 to PFCS_T1						
	Pipe Ovalisation Between PFC1 and PFC2						

Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 06−Sep−2008 18:49

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value	
	PFCS−A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	6.276	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2−D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DFFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP	Probes Arm Position	C	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PILS−A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PSPT−A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	6.276	IN
	BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	6.276	IN
	System and Miscellaneous		
CSIZ	Current Casing Size	7.000	IN
DO	Depth Offset for Playback	−5.4	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_034LUP		PRODUCER	06−Sep−2008 18:47	4100.3 M	4037.8 M

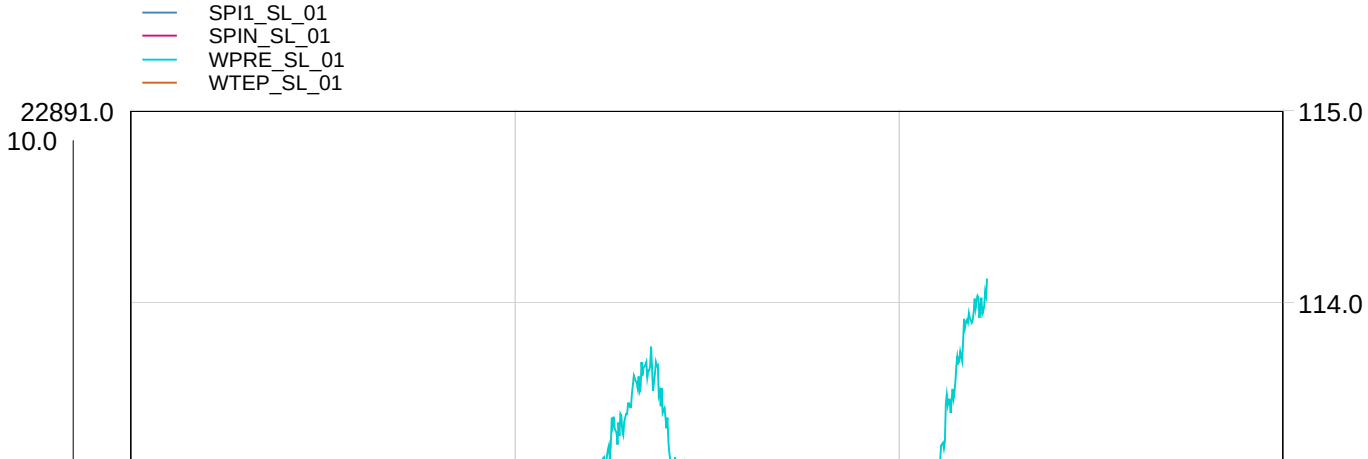
Output DLIS Files

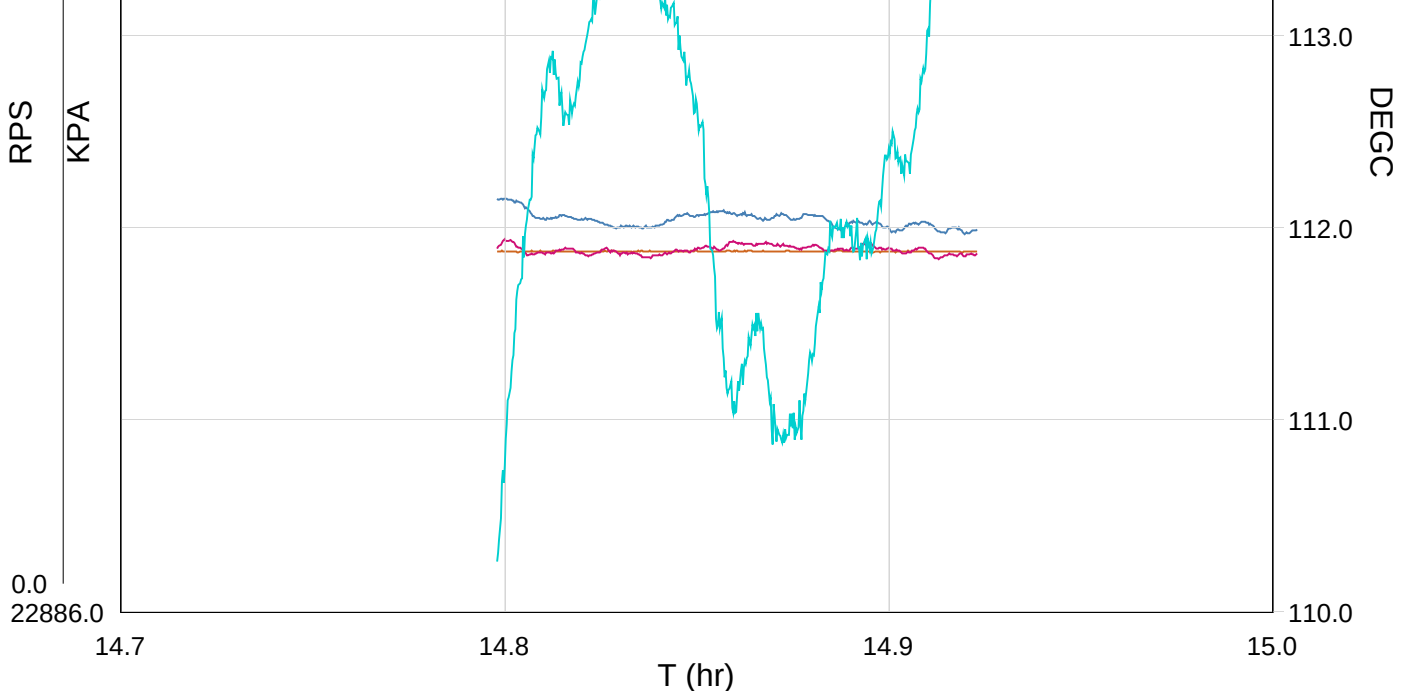
DEFAULT	FCS_ILS_PSP_037PUP	FN:31	PRODUCER	06−Sep−2008 18:49	

Schlumberger

Flowing Station @ 4095m MDKB
Below Perforations

MAXIS Field Log





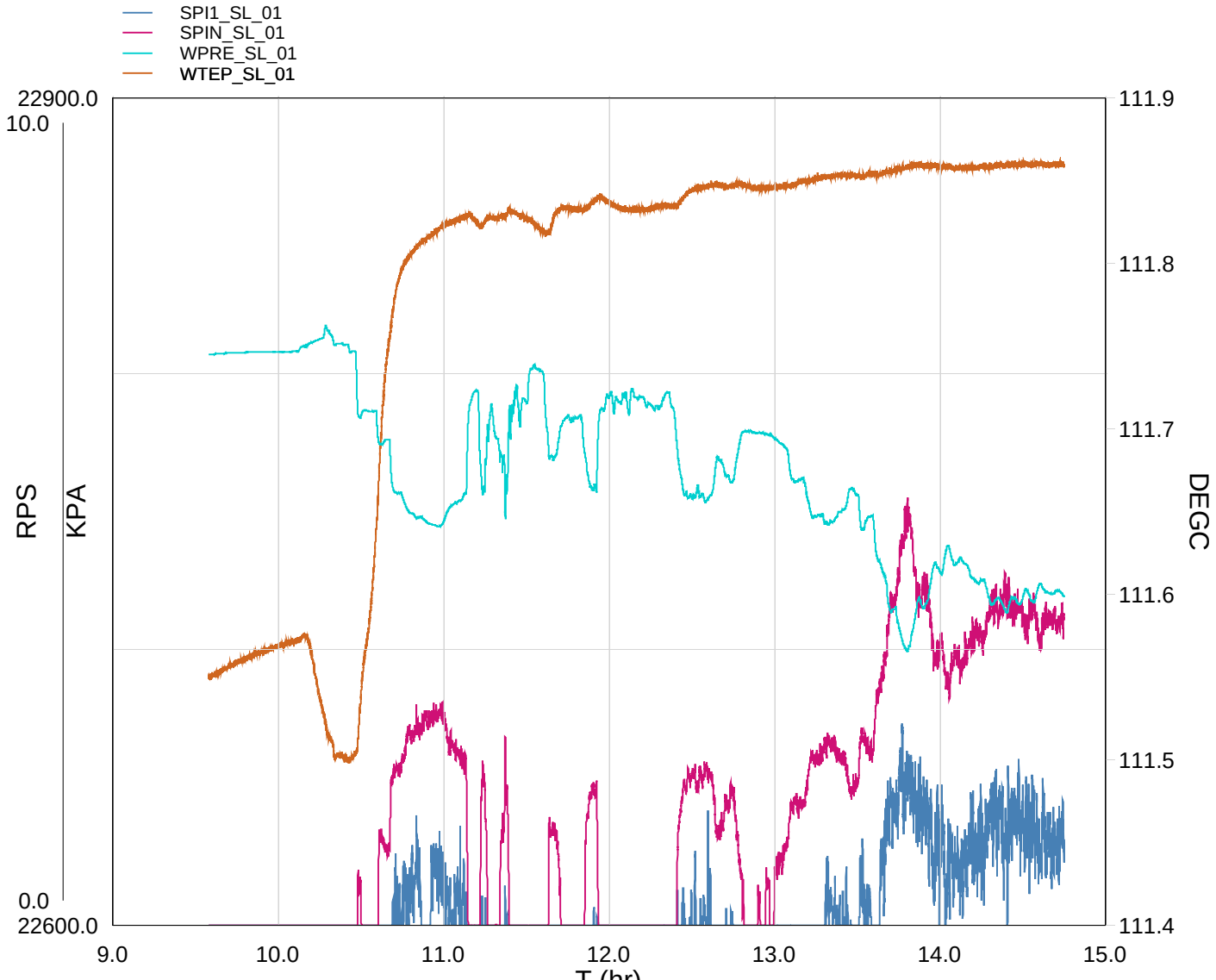
TIME	SPIN_SL	SPI1_SL	DFHM_SL	DEGF	PSIA
29010.0	3.7945	4.3097	1.0000	233.3877	3319.3645
29020.0	3.8696	4.3042	1.0000	233.3873	3319.4382
29030.0	3.8598	4.2868	1.0000	233.3841	3319.5286
29040.0	3.7533	4.2247	1.0000	233.3860	3319.6027
29050.0	3.7295	4.1150	1.0000	233.3868	3319.6854
29060.0	3.7312	4.0947	1.0000	233.3862	3319.7260
29070.0	3.7682	4.1174	1.0000	233.3841	3319.7394
29080.0	3.7928	4.1280	1.0000	233.3846	3319.7086
29090.0	3.7533	4.0903	1.0000	233.3879	3319.7327
29100.0	3.7112	4.0983	1.0000	233.3809	3319.7738
29110.0	3.7538	4.0670	1.0000	233.3856	3319.8038
29120.0	3.7593	4.0260	1.0000	233.3887	3319.8145
29130.0	3.7247	4.0126	1.0000	233.3819	3319.8342
29140.0	3.7438	4.0178	1.0000	233.3822	3319.8504
29150.0	3.7197	4.0051	1.0000	233.3888	3319.8778
29160.0	3.7048	4.0152	1.0000	233.3859	3319.8461
29170.0	3.7239	4.0457	1.0000	233.3837	3319.7921
29180.0	3.7619	4.0944	1.0000	233.3828	3319.7903
29190.0	3.7669	4.1514	1.0000	233.3868	3319.7547
29200.0	3.7844	4.1257	1.0000	233.3889	3319.7118
29210.0	3.8172	4.1415	1.0000	233.3841	3319.6549
29220.0	3.7852	4.1743	1.0000	233.3851	3319.5530
29230.0	3.8295	4.1638	1.0000	233.3894	3319.5015
29240.0	3.8483	4.1298	1.0000	233.3882	3319.4974
29250.0	3.8431	4.1356	1.0000	233.3897	3319.5280
29260.0	3.8369	4.0993	1.0000	233.3821	3319.5570
29270.0	3.8364	4.0913	1.0000	233.3848	3319.4921
29280.0	3.8129	4.1430	1.0000	233.3801	3319.4652
29290.0	3.8108	4.0899	1.0000	233.3882	3319.4740
29300.0	3.7819	4.1166	1.0000	233.3853	3319.4653
29310.0	3.8189	4.1401	1.0000	233.3852	3319.5227
29320.0	3.7892	4.1291	1.0000	233.3867	3319.5830
29330.0	3.7733	4.0230	1.0000	233.3859	3319.6238
29340.0	3.7733	3.9945	1.0000	233.3834	3319.6161
29350.0	3.7857	4.0680	1.0000	233.3816	3319.6077

29360.0	3.8287	4.0500	1.0000	233.3870	3319.6129
29370.0	3.7920	4.0660	1.0000	233.3805	3319.6224
29380.0	3.7928	4.0211	1.0000	233.3799	3319.6749
29390.0	3.7721	3.9857	1.0000	233.3814	3319.6791
29400.0	3.7597	4.0282	1.0000	233.3885	3319.6720
29410.0	3.7993	4.0456	1.0000	233.3851	3319.7107
29420.0	3.7418	4.0429	1.0000	233.3828	3319.7708
29430.0	3.6920	3.9676	1.0000	233.3845	3319.8383
29440.0	3.7294	4.0014	1.0000	233.3842	3319.8752
29450.0	3.7333	3.9758	1.0000	233.3784	3319.8982
29460.0	3.7290	3.9826	1.0000	233.3858	3319.9050
29470.0	3.7282	3.9471	1.0000	233.3819	3319.9535

Schlumberger

Well Drawdown @ 4070m MDKB

MAXIS Field Log



T (hr)

TIME	SPIN_SL	SPI1_SL	DFHM_SL	DEGF	PSIA
10240.0	0.0000	0.0000	1.0000	232.7891	3307.8616
10400.0	0.0000	0.0000	1.0000	232.7941	3307.9027
10560.0	0.0000	0.0000	1.0000	232.7983	3307.9318
10720.0	0.0000	0.0000	0.9982	232.8043	3307.9565
10880.0	0.0000	0.0000	1.0000	232.8079	3307.9668
11040.0	0.0000	0.0000	1.0000	232.8112	3307.9891
11200.0	0.0000	0.0000	1.0000	232.8119	3307.9997
11360.0	0.0000	0.0000	1.0000	232.8174	3308.0042
11520.0	0.0000	0.0000	1.0000	232.8190	3308.0184
11680.0	0.0000	0.0000	1.0000	232.8225	3308.0211
11840.0	0.0000	0.0000	1.0000	232.8260	3308.0266
12000.0	0.0000	0.0000	1.0000	232.8270	3308.0233
12160.0	0.0000	0.0000	1.0000	232.8306	3308.0262
12320.0	0.0000	0.0000	1.0000	232.8354	3308.3651
12480.0	0.0000	0.0000	1.0000	232.8129	3308.5198
12640.0	0.0000	0.0000	1.0000	232.7695	3308.6740
12800.0	0.0000	0.0000	1.0000	232.7310	3309.2058
12960.0	0.0000	0.0000	1.0000	232.7039	3308.4047
13120.0	0.0000	0.0000	1.0000	232.7059	3308.4599
13280.0	0.0000	0.0000	1.0000	232.7010	3308.2222
13440.0	0.0000	0.0000	1.0000	232.7066	3307.2150
13600.0	0.0000	0.0000	1.0000	232.8046	3304.9162
13760.0	0.0000	0.0000	1.0000	232.8670	3304.8735
13920.0	0.1733	0.0000	0.9977	232.9901	3303.3718
14080.0	0.9110	0.0000	0.9961	233.1247	3303.3882
14240.0	1.8108	0.2833	0.9993	233.1906	3300.8361
14400.0	1.8756	0.0000	0.9982	233.2295	3300.6052
14560.0	2.3463	0.4495	1.0000	233.2445	3299.6861
14720.0	2.4068	0.5331	0.9955	233.2551	3299.3667
14880.0	2.5439	0.0000	0.9993	233.2670	3299.2784
15040.0	2.4245	0.0000	0.9976	233.2710	3298.9769
15200.0	2.5498	0.3451	0.9989	233.2760	3298.8373
15360.0	2.5235	0.0000	0.9998	233.2806	3299.2095
15520.0	2.1983	0.0000	0.9948	233.2836	3299.9327
15680.0	2.0966	0.2599	0.9997	233.2887	3300.1736
15840.0	1.6265	0.3584	0.9952	233.2912	3301.1285
16000.0	0.0000	0.0000	1.0000	233.2870	3305.9058
16160.0	1.5044	0.0000	1.0000	233.2804	3301.5119
16320.0	0.0000	0.0000	1.0000	233.2890	3303.7134
16480.0	0.0064	0.0000	1.0000	233.2885	3303.5108
16640.0	1.0606	0.0000	0.9952	233.2901	3302.5343
16800.0	0.0000	0.0000	1.0000	233.2930	3303.8527
16960.0	0.0000	0.0000	1.0000	233.2934	3305.2708
17120.0	0.0000	0.0000	1.0000	233.2899	3305.4378
17280.0	0.0000	0.0000	1.0000	233.2832	3307.1435
17440.0	0.0000	0.0000	1.0000	233.2768	3307.0270
17600.0	0.0000	0.0000	1.0000	233.2730	3303.8115
17760.0	1.1883	0.0000	0.9995	233.2926	3302.4893
17920.0	0.0000	0.0000	0.9996	233.3036	3304.1843
18080.0	0.0000	0.0000	1.0000	233.3020	3304.4719
18240.0	0.0000	0.0000	0.9988	233.3004	3304.5640
18400.0	0.0000	0.0000	0.9996	233.2981	3302.8515
18560.0	1.5835	0.0000	0.9953	233.3064	3300.8461
18720.0	0.0000	−0.2500	0.9980	233.3108	3304.4145

18720.0	0.0000	0.2500	0.9980	233.3108	3304.4145
18880.0	0.0000	0.0000	1.0000	233.3095	3305.6451
19040.0	0.0000	0.0000	0.9954	233.3043	3304.8846
19200.0	0.0000	0.0000	1.0000	233.3006	3305.3081
19360.0	0.0000	0.0000	1.0000	233.2976	3304.8441
19520.0	0.0000	0.0000	0.9983	233.2978	3305.6049
19680.0	0.0000	0.0000	0.7474	233.3000	3305.6356
19840.0	0.0000	0.0000	0.7486	233.3014	3305.2697
20000.0	0.0000	0.0000	1.0000	233.3031	3305.1615
20160.0	0.0000	0.0000	1.0000	233.3036	3305.7549
20320.0	0.0000	0.0000	1.0000	233.3017	3305.0918
20480.0	1.3185	0.0000	1.0000	233.3070	3301.7803
20640.0	1.6608	0.0000	0.9988	233.3182	3300.4492
20800.0	1.7986	0.2661	0.9985	233.3212	3300.3936
20960.0	1.8272	0.1220	0.9967	233.3200	3300.5451
21120.0	1.8791	0.0000	0.9994	233.3256	3300.3918
21280.0	1.1492	0.0000	0.9950	233.3257	3302.3359
21440.0	1.3129	0.0000	0.9985	233.3253	3301.8896
21600.0	1.5941	0.0666	1.0000	233.3246	3301.1171
21760.0	0.8495	0.0000	1.0000	233.3274	3302.9173
21920.0	0.0000	0.0000	1.0000	233.3251	3303.8462
22080.0	0.0000	0.0000	0.9965	233.3223	3303.7557
22240.0	0.0000	0.0000	1.0000	233.3213	3303.7479
22400.0	0.5543	0.0000	1.0000	233.3211	3303.6548
22560.0	0.6121	0.0000	0.9991	233.3245	3303.4242
22720.0	0.7471	0.0000	1.0000	233.3222	3303.1444
22880.0	1.3620	0.0000	0.9964	233.3234	3301.7299
23040.0	1.3813	0.0000	0.9993	233.3263	3301.1887
23200.0	1.5035	0.0000	1.0000	233.3311	3301.1247
23360.0	2.0291	0.0000	0.9984	233.3306	3299.2765
23520.0	2.0658	0.0000	0.9977	233.3332	3299.4277
23680.0	2.0882	0.7679	0.9988	233.3351	3299.0510
23840.0	2.2326	0.3307	0.9991	233.3345	3299.1057
24000.0	2.0076	0.0000	0.9996	233.3371	3299.6053
24160.0	1.7234	0.0000	0.9990	233.3362	3300.6832
24320.0	1.7007	0.0000	0.9966	233.3355	3300.4775
24480.0	2.2170	0.2690	0.9968	233.3315	3298.6622
24640.0	2.2303	0.1015	0.9956	233.3387	3299.3722
24800.0	2.7941	0.0000	0.9950	233.3369	3297.0192
24960.0	3.2461	1.4008	0.9928	233.3386	3295.9904
25120.0	3.7913	1.5783	0.9933	233.3415	3294.4982
25280.0	4.5131	2.0027	0.9869	233.3440	3293.1908
25440.0	4.7907	1.5606	0.9890	233.3452	3292.2948
25600.0	4.3244	1.6969	0.9900	233.3491	3294.0454
25760.0	4.2042	1.3605	0.9909	233.3458	3294.5819
25920.0	3.7521	1.2830	0.9891	233.3464	3295.5696
26080.0	3.3730	1.6514	0.9931	233.3450	3296.6402
26240.0	3.0642	0.5058	0.9918	233.3459	3297.1435
26400.0	3.2896	1.0283	0.9967	233.3448	3297.1396
26560.0	3.3491	0.6604	0.9880	233.3426	3297.0962
26720.0	3.1755	0.8859	0.9946	233.3438	3296.7887
26880.0	3.4838	0.6472	0.9983	233.3433	3296.0846
27040.0	3.4213	0.8362	0.9964	233.3451	3296.0475
27200.0	3.7338	1.1130	0.9928	233.3452	3295.1326
27360.0	4.1113	1.7854	0.9890	233.3451	3294.9798
27520.0	3.7674	0.6834	0.9895	233.3463	3294.6318
27680.0	3.9094	1.4364	0.9890	233.3463	3294.9659
27840.0	4.0558	1.3665	0.9950	233.3473	3294.7919
28000.0	3.4518	1.0317	0.9885	233.3479	3295.5657
28160.0	3.7848	0.9728	0.9943	233.3472	3294.9008
28320.0	3.4378	0.6836	0.9983	233.3479	3295.8300
28480.0	3.6146	1.1358	0.9980	233.3475	3295.3434

28640.0	3.7405	0.9980	0.9936	233.3472	3295.3491
28800.0	3.8742	1.1793	0.9897	233.3493	3295.3159

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Shut−in Passes @ 3940 ft/hr

MAXIS Field Log

Schlumberger

Up Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	FCS_ILS_PSP_009LUP	FN:8	PRODUCER	06−Sep−2008 09:03	4112.2 M	3945.0 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_029PUP	FN:26	PRODUCER	06−Sep−2008 18:34	4110.8 M	3944.1 M

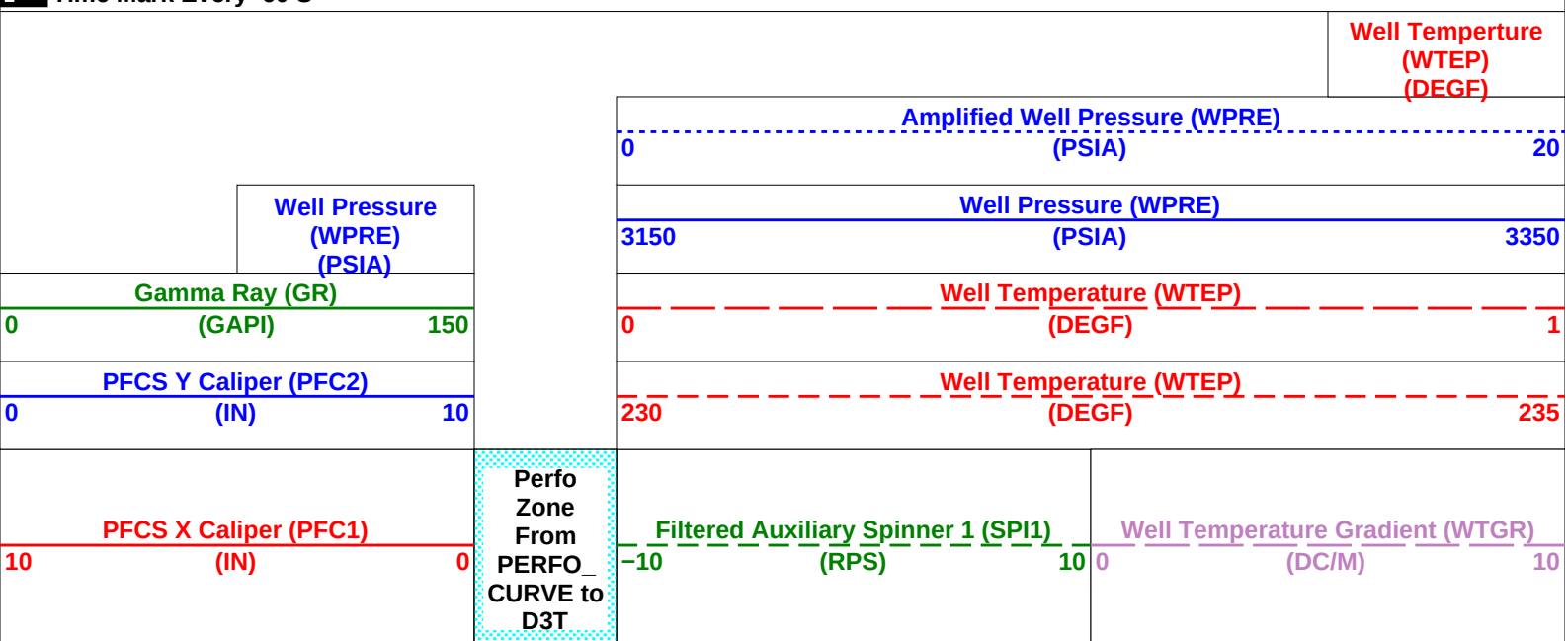
OP System Version: 15C0−309

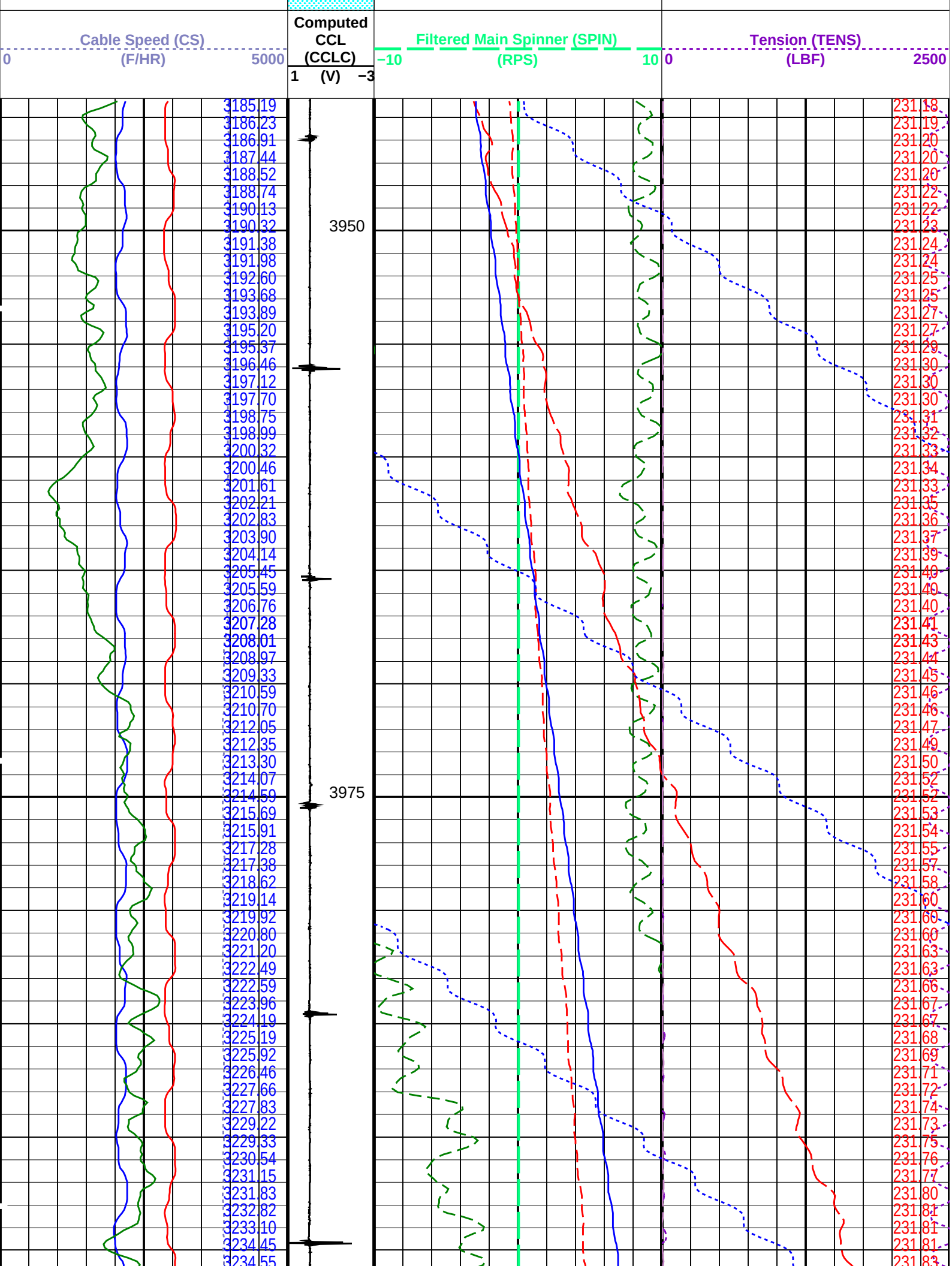
MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

PIP SUMMARY

Time Mark Every 60 S




Cable Speed (CS)
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(F/HR)
5000
Computed CCL (CCLC)
1
(V)
−3
Filtered Main Spinner (SPIN)
−10
(RPS)
10
Tension (TENS)
0
(LBF)
2500
3185.19
3186.23
3186.91
3187.44
3188.52
3188.74
3190.13
3190.32
3950
3191.38
3191.98
3192.60
3193.68
3193.89
3195.20
3195.37
3196.46
3197.12
3197.70
3198.75
3198.99
3200.32
3200.46
3201.61
3202.21
3202.83
3203.90
3204.14
3205.45
3205.59
3206.76
3207.28
3208.01
3208.97
3209.33
3210.59
3210.70
3212.05
3212.35
3213.30
3214.07
3214.59
3975
3215.69
3215.91
3217.28
3217.38
3218.62
3219.14
3219.92
3220.80
3221.20
3222.49
3222.59
3223.96
3224.19
3225.19
3225.92
3226.46
3227.66
3227.83
3229.22
3229.33
3230.54
3231.15
3231.83
3232.82
3233.10
3234.45
3234.55
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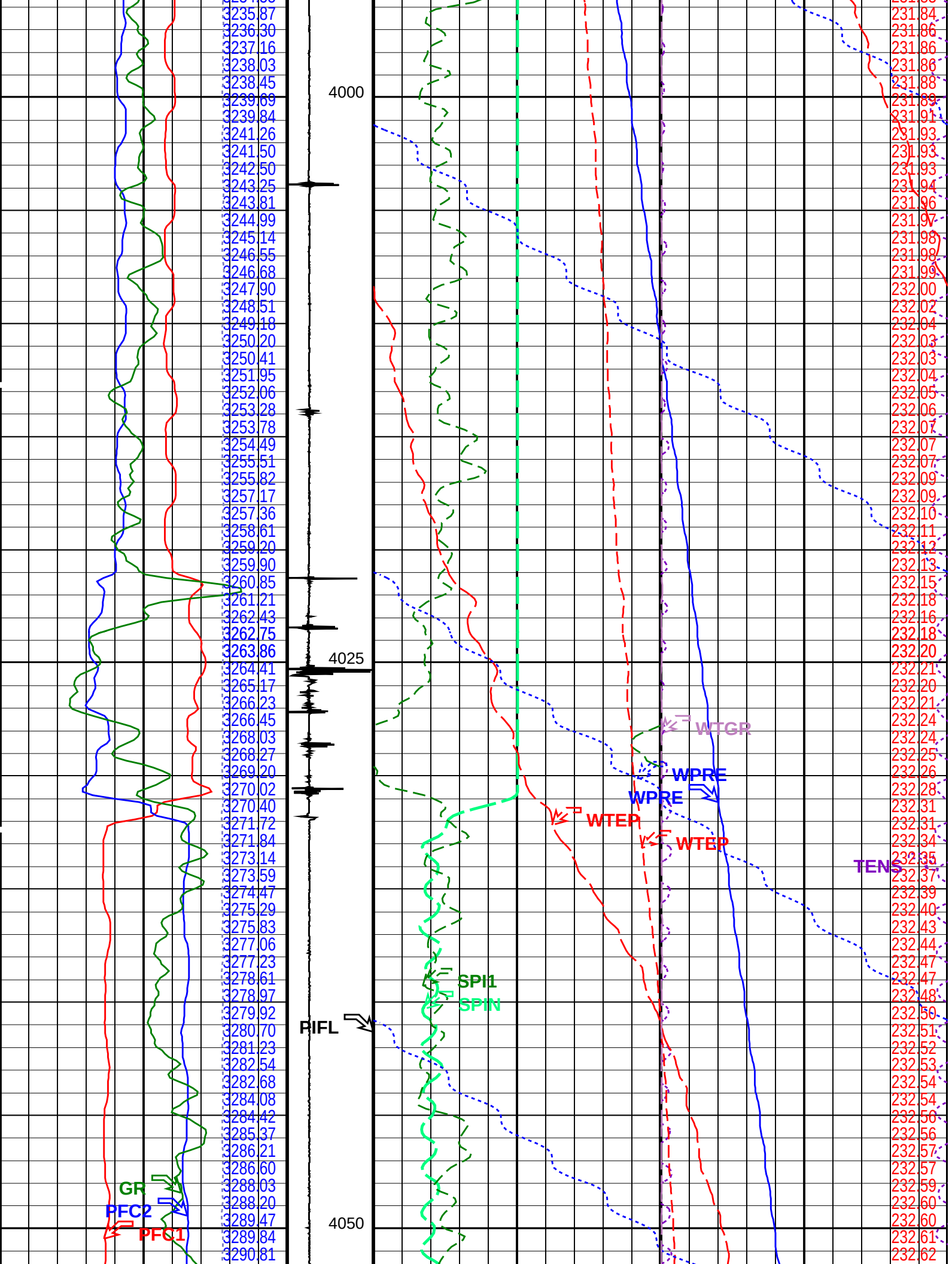
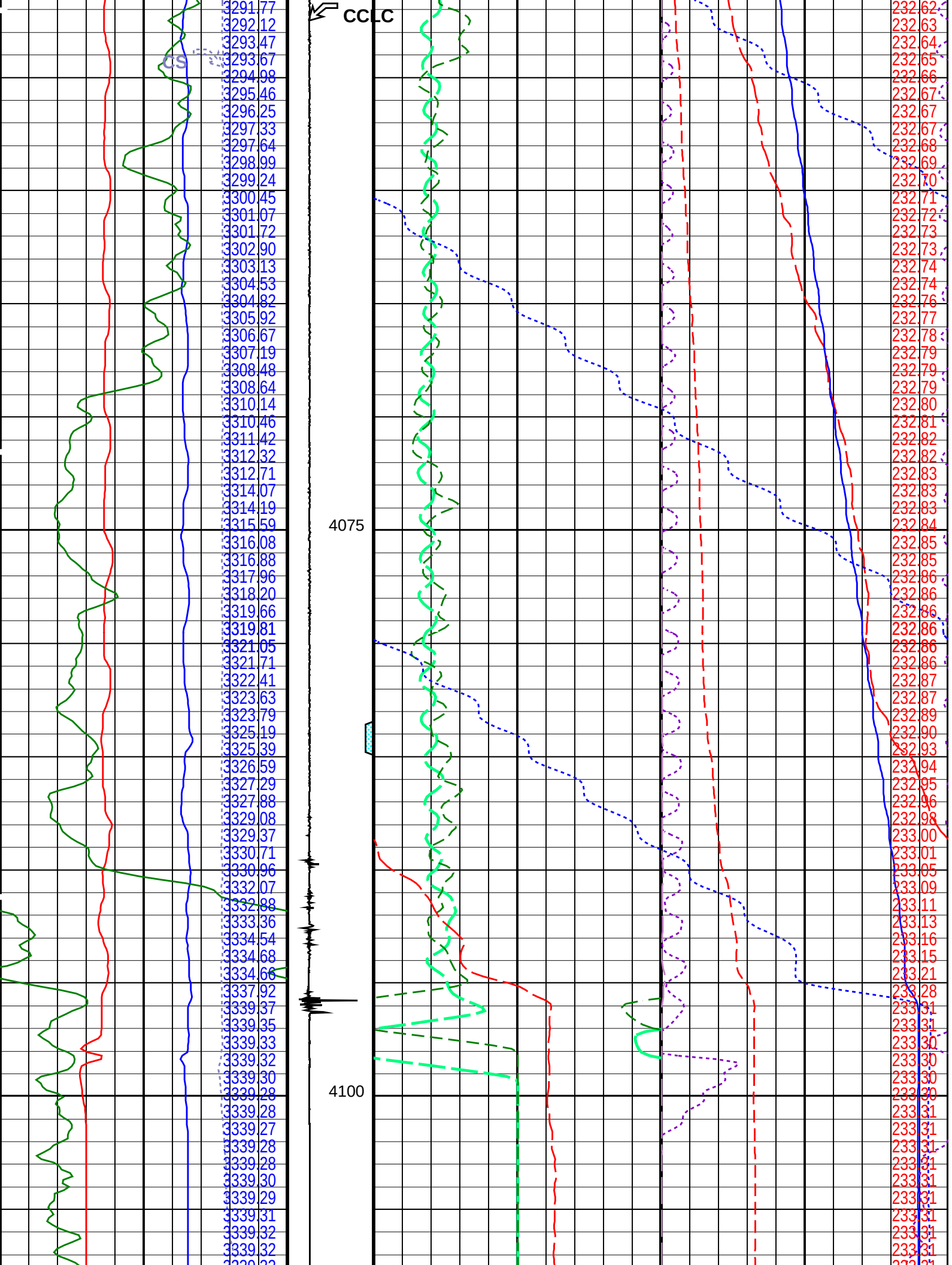
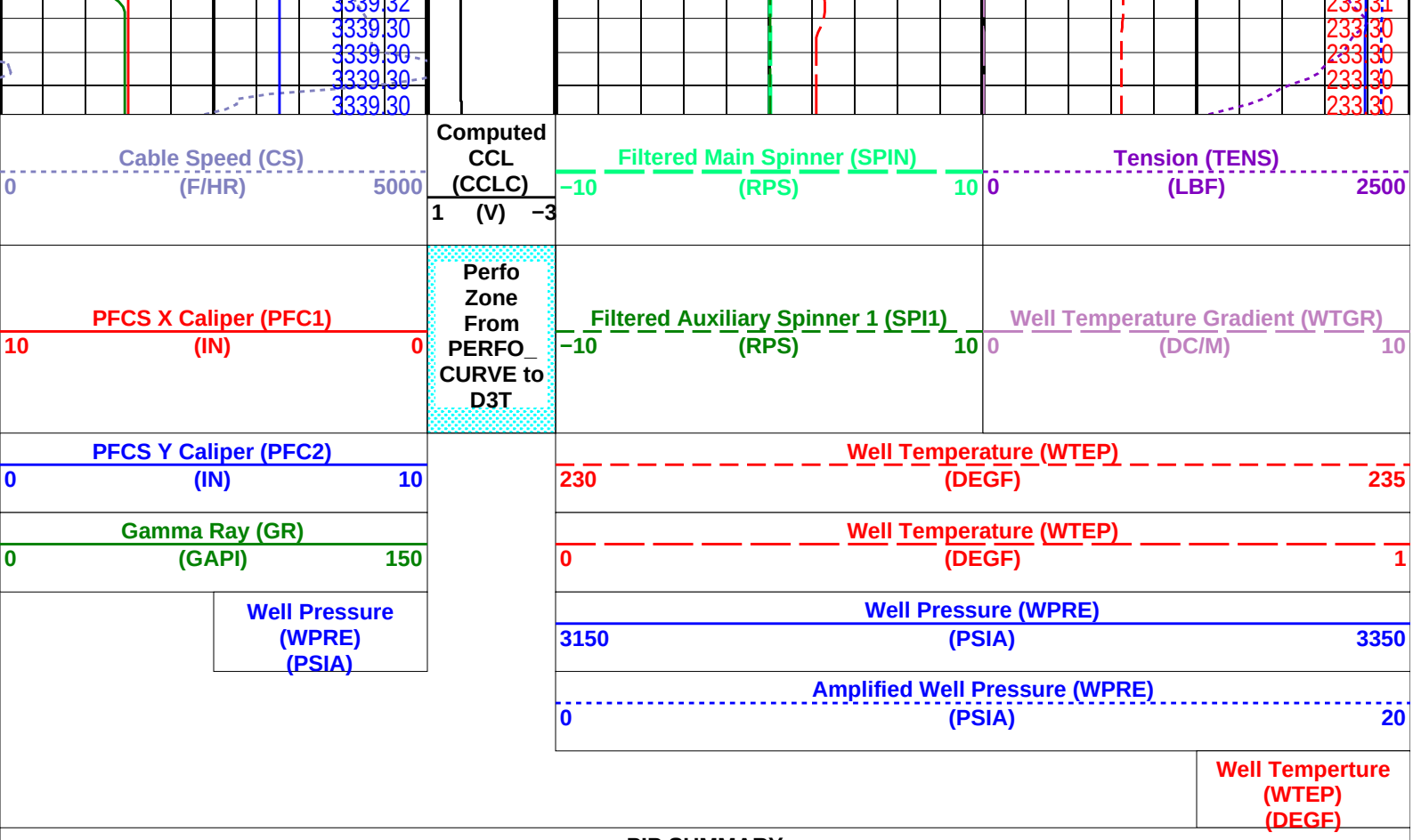
231.81
231.81
231.83


4000
4025
4050
WTGR
WPRE
WPRE
WTEP
WTEP
TENS
SPI1
SPIN
PIFL
GR
PFC2
PFC1


CCLC
CS
4075
4100



PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 **Vertical Scale: 1:200** **Graphics File Created: 06−Sep−2008 18:34**

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value
	PFCS−A: PSP Flow and caliper Tool	
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5
	PILS−A: PSP In Line Spinner Flowmeter	
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5
	System and Miscellaneous	
DO	Depth Offset for Playback	−1.3 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT	FCS_ILS_PSP_009LUP	FN:8	PRODUCER	06−Sep−2008 09:03	4112.2 M	3945.0 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_029PUP	FN:26	PRODUCER	06−Sep−2008 18:34

Schlumberger

Down Pass

Down Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_025LUP	PRODUCER	06−Sep−2008 17:35	4112.2 M	3932.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_028PUP	FN:25	PRODUCER	06−Sep−2008 18:30	4106.3 M	3927.3 M

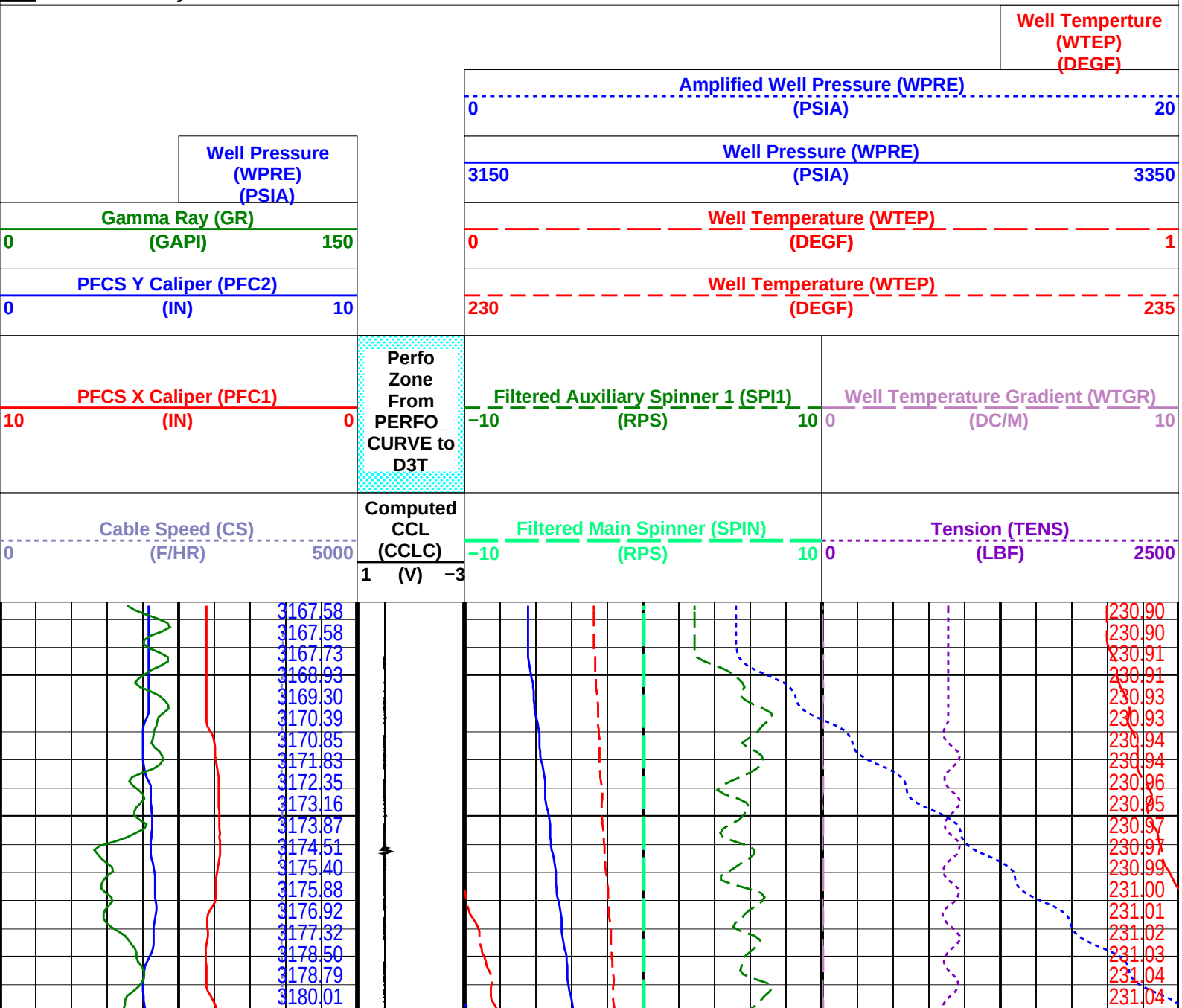
OP System Version: 15C0−309

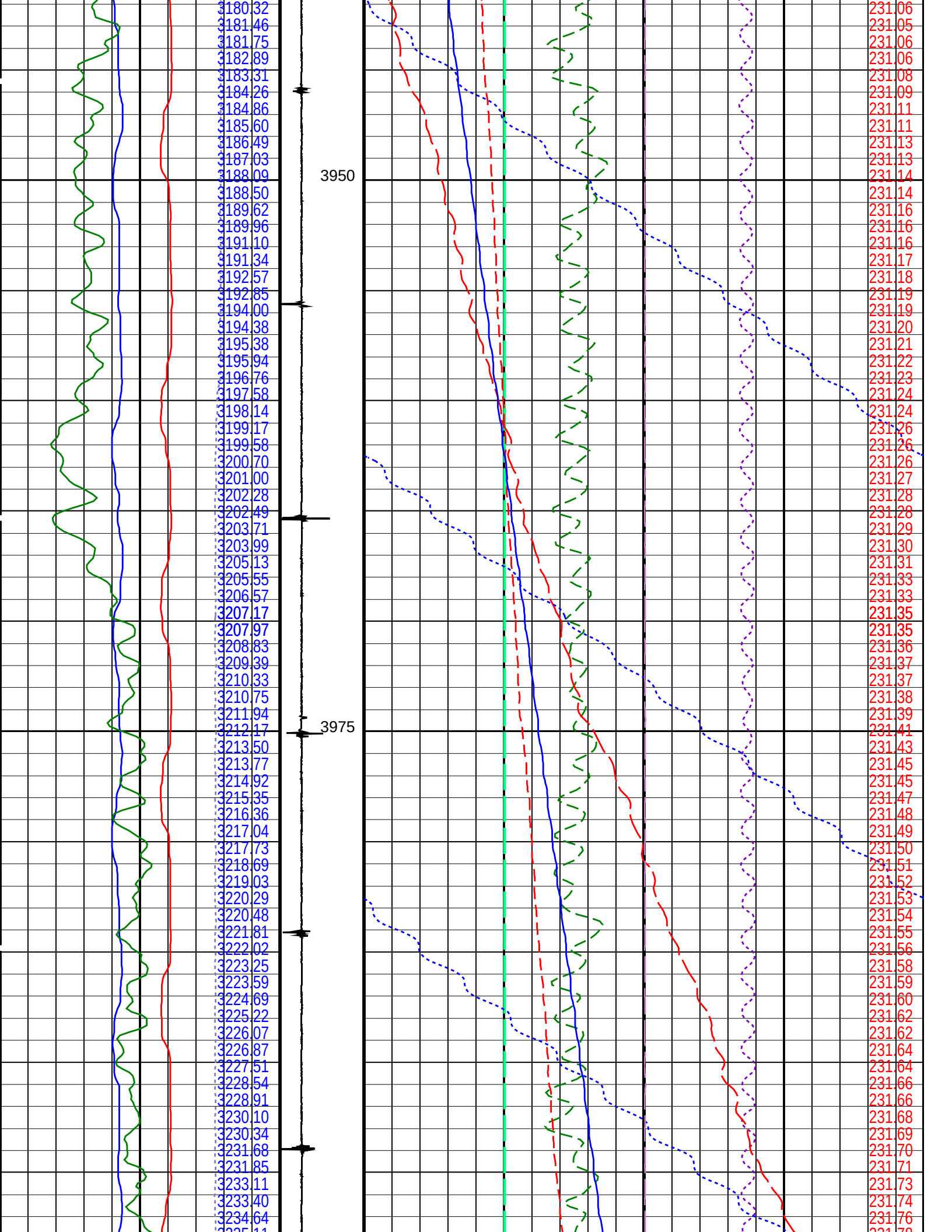
MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

PIP SUMMARY

Time Mark Every 60 S




3180.32
3181.46
3181.75
3182.89
3183.31
3184.26
3184.86
3185.60
3186.49
3187.03
3188.09
3950
3188.50
3189.62
3189.96
3191.10
3191.34
3192.57
3192.85
3194.00
3194.38
3195.38
3195.94
3196.76
3197.58
3198.14
3199.17
3199.58
3200.70
3201.00
3202.28
3202.49
3203.71
3203.99
3205.13
3205.55
3206.57
3207.17
3207.97
3208.83
3209.39
3210.33
3210.75
3211.94
3212.17
3975
3213.50
3213.77
3214.92
3215.35
3216.36
3217.04
3217.73
3218.69
3219.03
3220.29
3220.48
3221.81
3222.02
3223.25
3223.59
3224.69
3225.22
3226.07
3226.87
3227.51
3228.54
3228.91
3230.10
3230.34
3231.68
3231.85
3233.11
3233.40
3234.64
231.06
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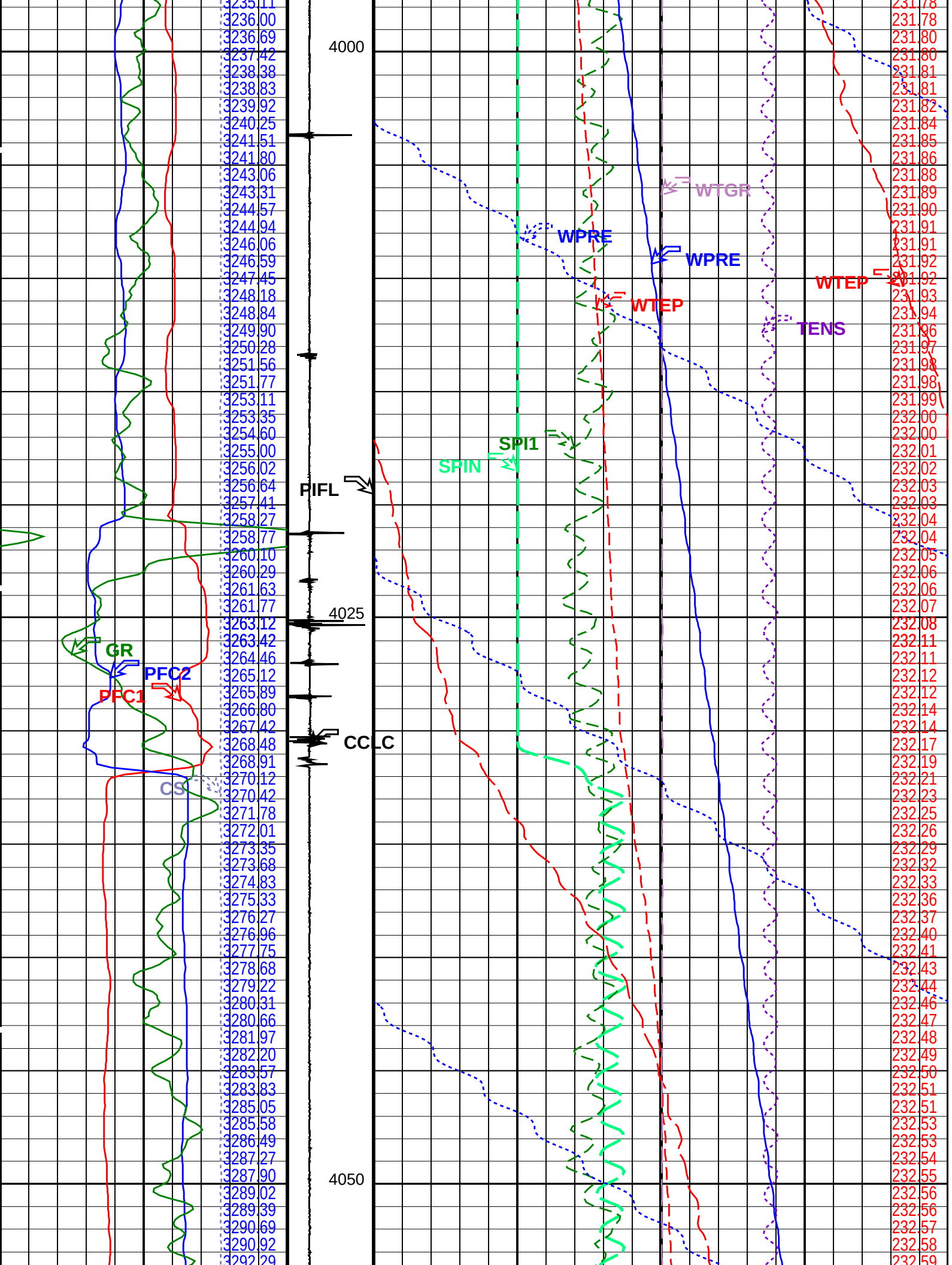
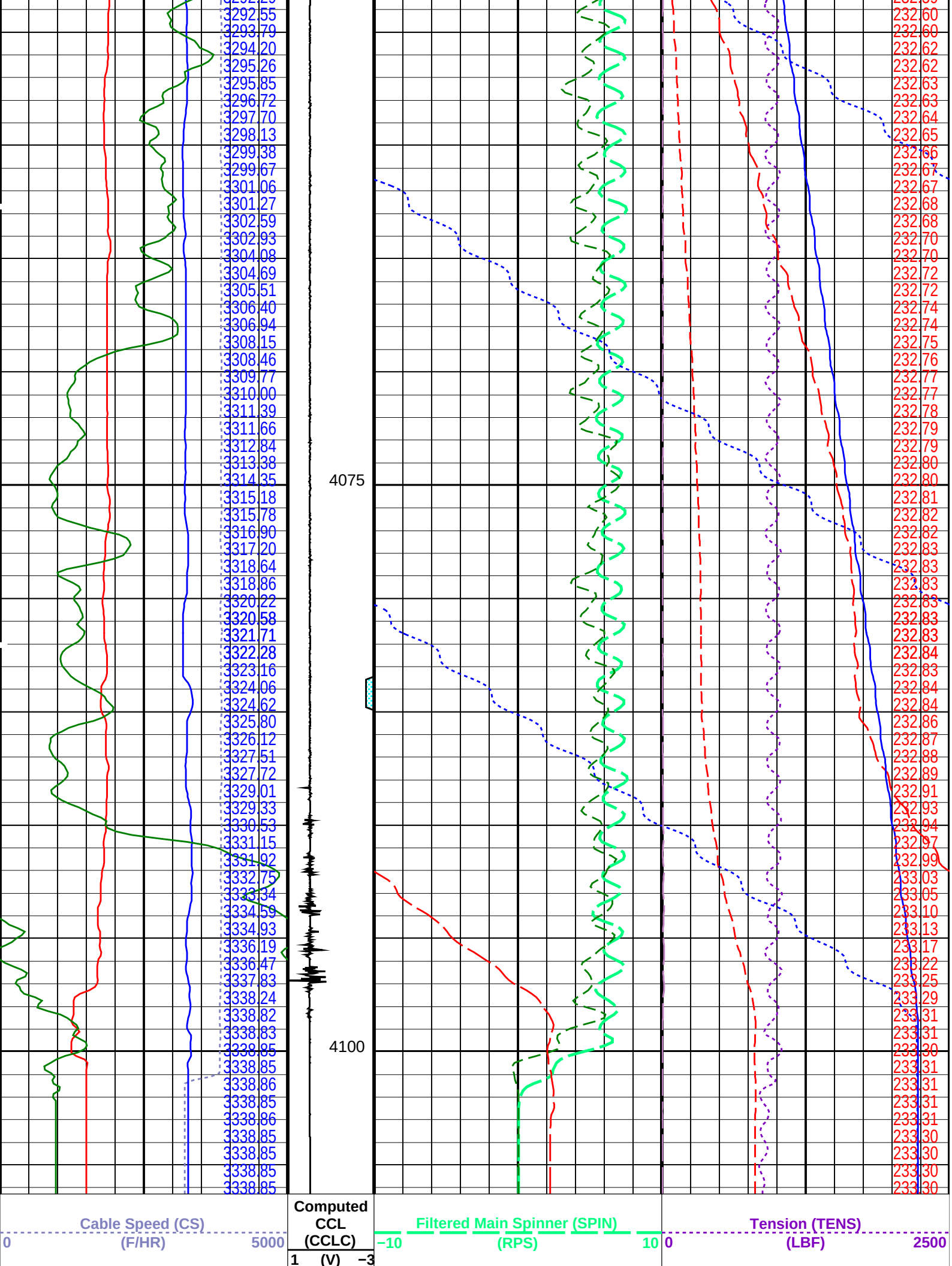
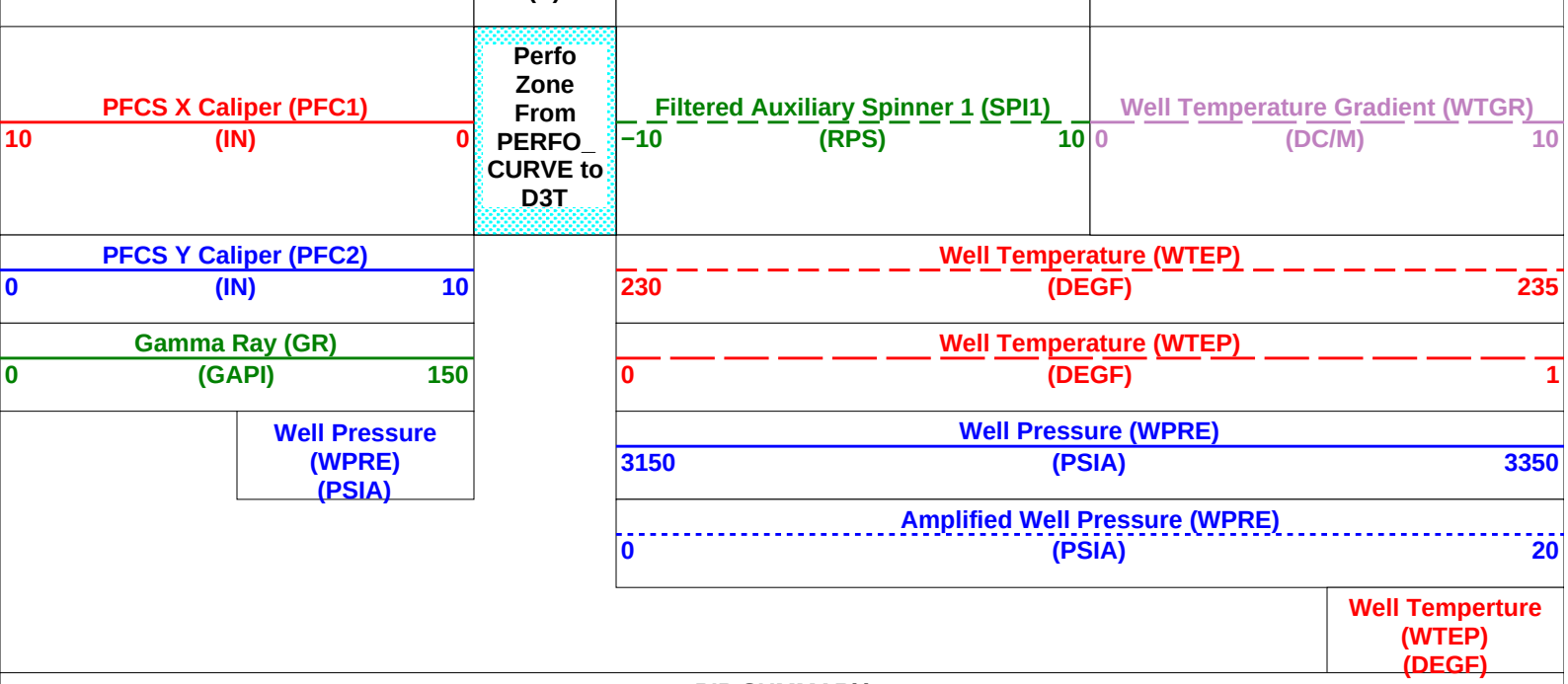

4000
4025
4050
GR
PFC2
PFC1
CS
PIFL
CCLC
SPIN
SPI1
WPRE
WPRE
WTGR
WTEP
WTEP
TENS


4075
4100
Cable Speed (CS)
0
(F/HR)
5000
Computed CCL (CCLC)
1
(V)
−3
Filtered Main Spinner (SPIN)
−10
(RPS)
10
Tension (TENS)
0
(LBF)
2500



PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 06−Sep−2008 18:30

OP System Version: 15C0−309

MCM

PFCS−A	SRPC−3546−Q1_2008_OP15	PILS−A	SRPC−3546−Q1_2008_OP15
PSPT−A/B	SRPC−3546−Q1_2008_OP15		

Parameters

DLIS Name	Description	Value	
	PFCS−A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	PILS−A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS−A	
SPIN	Main Spinner Flowmeter Sonde	PFCS−A_3.5	
	System and Miscellaneous		
DO	Depth Offset for Playback	−6.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	Flip_FCS_ILS_PSP_025LUP	PRODUCER	06−Sep−2008 17:35	4112.2 M	3932.8 M

Output DLIS Files

DEFAULT	FCS_ILS_PSP_028PUP	FN:25	PRODUCER	06−Sep−2008 18:30

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Calibration Listing

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
PSP Flow and caliper Tool Wellsite Calibration − PFCS Caliper Calibration							
Before: 5−Sep−2008 7:54							
PFCS CaliperX Small Ring	5.500	N/A	5.497	N/A	N/A	N/A	IN
PFCS CaliperX Large Ring	8.000	N/A	8.110	N/A	N/A	N/A	IN
PFCS CaliperY Small Ring	5.500	N/A	5.435	N/A	N/A	N/A	IN
PFCS CaliperY Large Ring	8.000	N/A	8.073	N/A	N/A	N/A	IN
Production Services Logging Platform Wellsite Calibration − Detector Calibration							
Before: 5−Sep−2008 7:55							
Gamma−Ray Jig−Bkg	125.0	N/A	129.3	N/A	N/A	N/A	GAPI

PSP Flow and caliper Tool / Equipment Identification

Primary Equipment:			
PFCS Cartridge	PFCC − A	799	799
PFCS Caliper	Cali −	799	799
PFCS Relative Bearing	Rela −	799	799
PFCS 3.5 Spinner Diameter	Spin −	799	799
PFCS Fluid Holdup Electric Probes	Hold −	799	799
Auxiliary Equipment:			
PFCS Cartridge Housing	PFCH − A	799	799

PSP Flow and caliper Tool Wellsite Calibration

PFCS Caliper Calibration

Phase	PFCS CaliperX Small Ring IN	Value
Before		5.497
	N/A (Minimum) 5.500 (Nominal) N/A (Maximum)	

Phase	PFCS CaliperX Large Ring IN	Value
Before		8.110
	N/A (Minimum) 8.000 (Nominal) N/A (Maximum)	

Phase	PFCS CaliperY Small Ring IN	Value
Before		5.435
	N/A (Minimum) 5.500 (Nominal) N/A (Maximum)	

Phase	PFCS CaliperY Large Ring IN	Value
Before		8.073
	N/A (Minimum) 8.000 (Nominal) N/A (Maximum)	

Before: 5−Sep−2008 7:54

Production Services Logging Platform / Equipment Identification

Primary Equipment:			
Production Logging Platform (CQG−F)	PSPT − B	827	827
PSP Basic Measurement Sonde (CQG_F)	PBMS − B	827	827
PSP Basic measurement module	PBMS −	827	827
PSP CCL	CCL −	827	827
PSP GR	GR −	827	827
PSP RTD Well Temperature	RTD_ −	827	827
PSP Crystal Quartz Gauge Type F	CQG_ −	827	827
PSP Telemetry and bus master cartridge	PSTC −	806	806
Auxiliary Equipment:			

Production Services Logging Platform Wellsite Calibration

Detector Calibration

Phase	Gamma−Ray Background GAPI	Value
Before		4.287
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)	

Phase	Gamma−Ray Jig−Bkg GAPI	Value
Before		129.3
	110.0 (Minimum) 125.0 (Nominal) 140.0 (Maximum)	

Before: 5−Sep−2008 7:55

Company:	**Esso Australia Pty Ltd.**
Well:	**A−6**
Field:	**Flounder**
Rig :	**Prod4 / Crane**
Country:	**Australia**

Schlumberger

PLT − Spinner
Survey