

Company: Esso Australia Pty Ltd.

Well: A-11b

Field: Mackerel

Rig : Prod4 / Crane

Country: Australia

Dual Delft / Spinner
GR-PLT-Gradic
Survey

Field: Mackerel
Location: Gippsland
Well: A-11b
Company: Esso Australia Pty Ltd.

LOCATION

Gippsland
Basin
Bass Strait
Elev.: K.B. 39.5 m
G.L. -93 m
D.F. 39.5 m

Permanent Datum: M.S.L.
Log Measured From: D.F.
Drilling Measured From: D.F.
Elev.: 0 m
39.5 m above Perm. Datum

State: Victoria
Max. Well Deviation 60 deg
Longitude 148 20'34.038852"E
Latitude 38 28'44.748624"S

Logging Date 28-Jul-2008

Run Number 1 & 2

Depth Driller 3174 m

Schlumberger Depth 3110 m

Bottom Log Interval 2990 m

Top Log Interval 3080 m

Casing Fluid Type Production Fluids

Salinity

Density 1 g/cm3

Fluid Level 163 m

BIT/CASING/TUBING STRING

Bit Size 9.875 in

From 0 m

To 3247 m

Casing/Tubing Size 7.625 in

Weight 26.4 lbm/ft

Grade L-80

From 20.2 m

To 3235.15 m

Maximum Recorded Temperatures 104 degC

Logger On Bottom 28-Jul-2008 12:30

Unit Number 889 Prod4 / Crane

Recorded By G Wright,O Darby.

Witnessed By B White.

Run 1

Oil Density

Water Salinity

Gas Gravity

Bo

Bw

1/Bg

Bubble Point Pressure

Bubble Point Temperature

Solution GOR

Maximum Deviation 60 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 12:30

Unit Number Location

Recorded By

Witnessed By

DEPTH SUMMARY LISTING

Date Created: 29-JUL-2008 14:01:20

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-BE Serial Number: 6373 Calibration Date: 05-Jul-2006 Calibrator Serial Number: 9 Calibration Cable Type: 2-32ZT Wheel Correction 1: -2 Wheel Correction 2: -4	Type: PSDS/OSDS Serial Number: 325357 Calibration Date: 26-Apr-2007 Calibrator Serial Number: 1174 Calibration Gain: 0.91 Calibration Offset: 217.00	Type: 2-32ZT Serial Number: 24425 Length: 7000.04 M Conveyance Method: Wireline Rig Type: Rigless

Depth Control Parameters

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

Depth Control Remarks









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

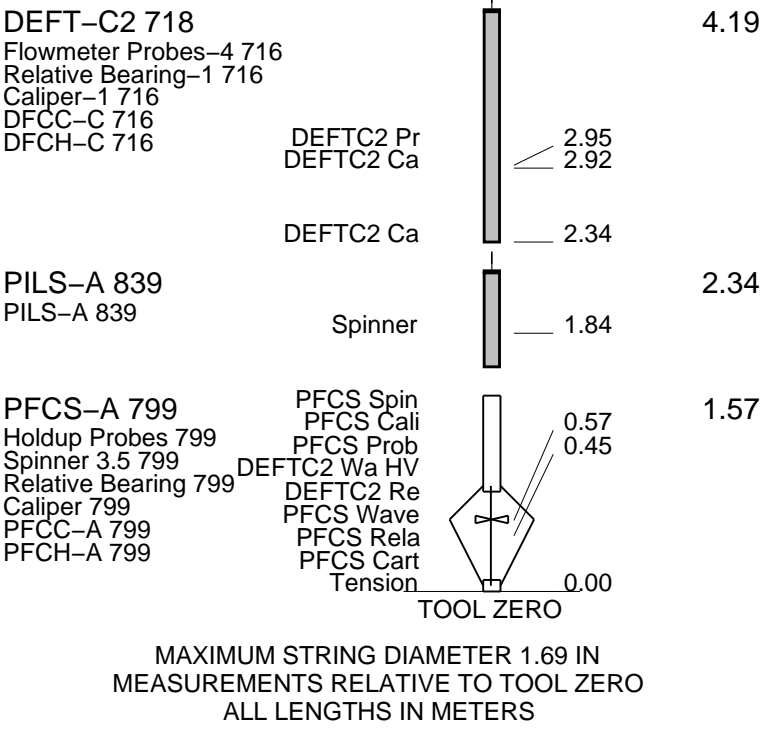
DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: None

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to ExxonMobil Solar composite supplied with program.	
Maximum well deviation = 60 degrees at 1260m MDKB.	
Dual Deft,PLT survey logged from 3080m MDKB to 2990m MDKB.	
Static and flowing data recorded.	
4 static and 2 flowing passes logged at differing speeds.	
SBHP= 3326 Pisa, SBHT = 220 DegF	
Well test results during 45 minute test :	
Total fluids 34.1kl/d, 99% water – 1% oil production registered	
Gas lift in = 35 Km3/d, Gas out = 7.7 Km3/d	

RUN 1		RUN 2	
SURFACE EQUIPMENT			
WITM-A 1 PSC_16MHZ 806			
DOWNHOLE EQUIPMENT			
AH-SWBS-B 785 AH-SWBS-B 785		11.92	
AH-SWBS-B 786 AH-SWBS-B 786		11.23	
AH-SWBS-B 789 AH-SWBS-B 789		10.55	
AH-SWBS-B 788 AH-SWBS-B 788		9.86	
AH-SWBS-B 787 AH-SWBS-B 787		9.17	
MH-SWHS-A 759 MH-SWHS-A 759		8.49	
PSPT-A/B 827 PSC-A 806 PSPT-B 827 PSTC 806 PBMS-B 827 CQG F_Mano 827 RTD Thermometer 827 GR 827 CCL 827 PBMS 827		8.16	
Detail MT TelStatus CTEM		8.16	
GR		7.03	
Well_Temp CQG Manom CCL PBMS PSTC		6.10 5.99 5.87 5.64	
PGMC-A/B 826 PGMC-A 826 PSOI_Gradio 1926		5.64	
Gradioman		5.18	
PGMC		4.19	



PFCS-A 799

Holdup Probes 799

Spinner 3.5 799

Relative Bearing 799

Caliper 799

PFCC-A 799

PFCH-A 799

PFCS Spin

PFCS Cali

PFCS Prob

DEFTC2 Wa HV

DEFTC2 Re

PFCS Wave

PFCS Rela

PFCS Cart

Tension

0.57

0.45

0.00

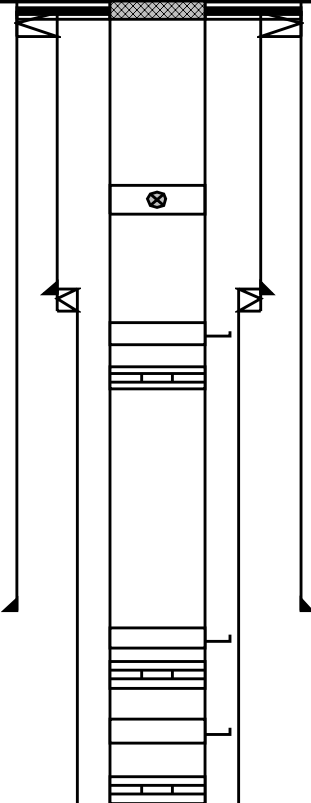
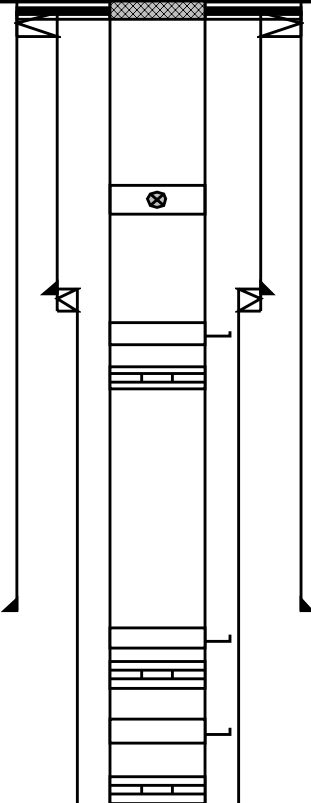
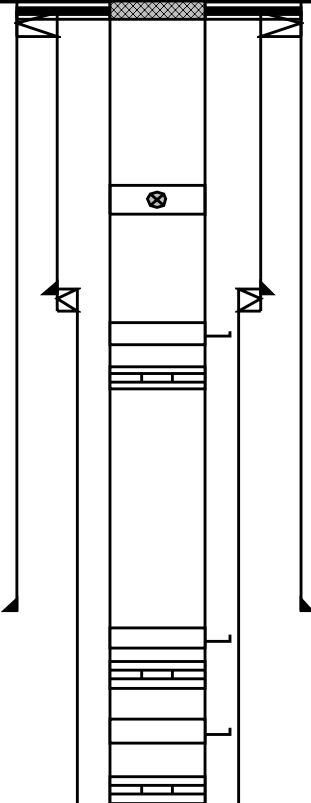
1.57

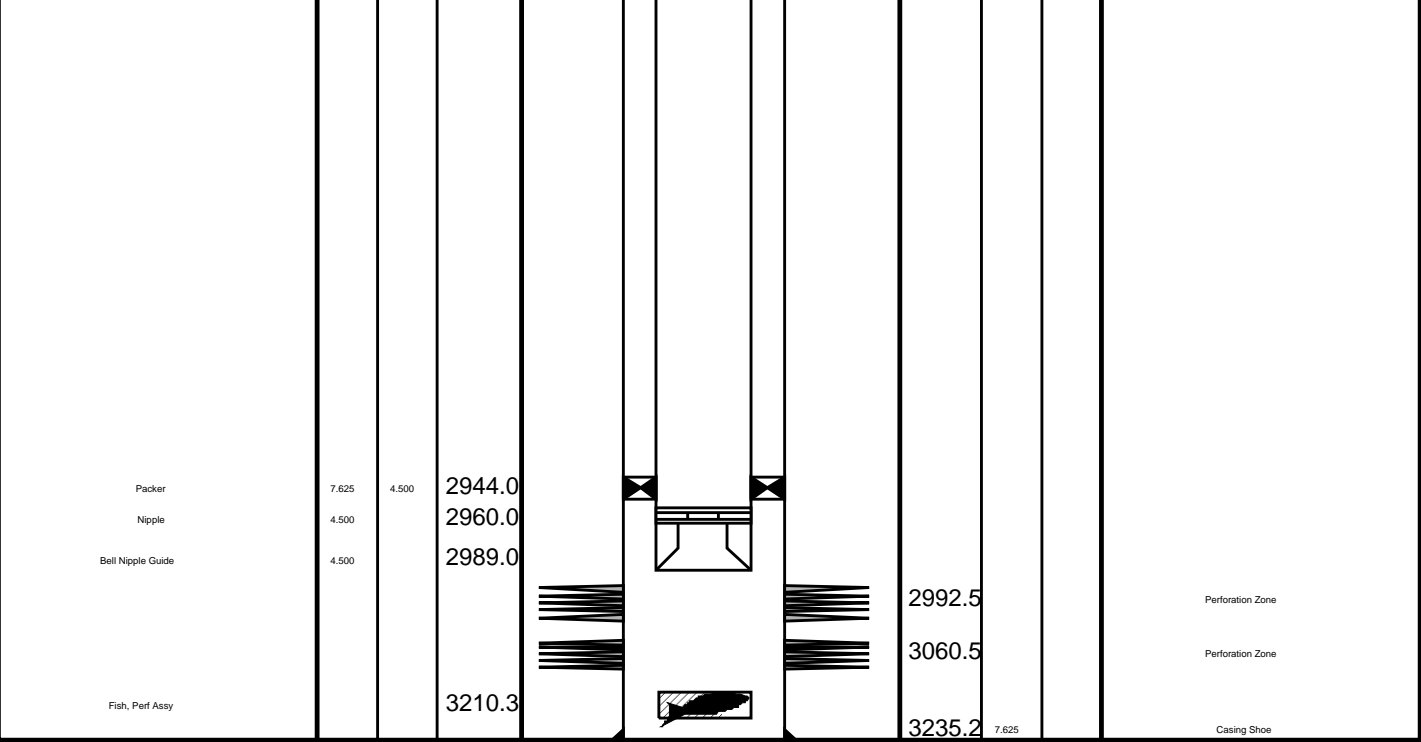
TOOL ZERO

MAXIMUM STRING DIAMETER 1.69 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 Hanger Tubing	13.375	4.500	18.9		15.3	13.375		Casing String
	4.500		20.2		20.2	9.625		Casing String
			20.2		20.2	13.375	9.625	Liner Hanger
Shutin Valve	4.500		449.0		498.9	9.625		Casing Shoe
Gas Lift Mandrel	4.500		668.0		496.0	7.625		Casing String
Nipple	4.500		682.0		496.0	9.625	7.625	Liner Hanger
Gas Lift Mandrel	4.500		1481.0		1190.1	13.375		Casing Shoe
Nipple	4.500		1495.0					
Gas Lift Mandrel	4.500		1682.0					
Nipple	4.500		1696.0					



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
Simulated Log	27-Jul-2008 8:23	000:03	FCS_ILS_DEFT_GMS_007LDP
OP Checked toolstring			
Log Pass (down)	27-Jul-2008 8:26	001:09	12.8 - 2977.9 FCS_ILS_DEFT_GMS_008LDP
RIH			
Log Pass (down)	27-Jul-2008 9:35	000:14	2969.8 - 3110.3 FCS_ILS_DEFT_GMS_009LDP
1970fh/hr down log / shut in			
Log Pass (up)	27-Jul-2008 9:49	000:11	3110.3 - 2996.8 FCS_ILS_DEFT_GMS_010LUP
1970fh/hr up log / shut in			
Log Pass (down)	27-Jul-2008 10:01	000:23	2996.9 - 3123.3 FCS_ILS_DEFT_GMS_012LDP
980fh/hr down log/ shut in			
Log Pass (up)	27-Jul-2008 10:28	000:28	3121.0 - 2973.3 FCS_ILS_DEFT_GMS_014LUP
980fh/hr up log/ shut in			
Log Pass (down)	27-Jul-2008 10:56	000:07	2973.5 - 3123.0 FCS_ILS_DEFT_GMS_015LDP
3940fh/hr down log/ shut in			
Log Pass (up)	27-Jul-2008 11:03	000:07	3122.8 - 2981.4 FCS_ILS_DEFT_GMS_016LUP
3940fh/hr up log/ shut in			
Log Pass (down)	27-Jul-2008 11:10	000:06	2981.6 - 3137.8 FCS_ILS_DEFT_GMS_017LDP
5900fh/hr down log/ shut in			

Log Pass (up) 27-Jul-2008 11:17 000:05 3137.6 - 2984.8 FCS_ILS_DEFT_GMS_018LUP
 5900fh/hr up log/ shut in
 Station Log 28-Jul-2008 12:45 003:22 3050.9 - 30.7 FCS_ILS_DEFT_GMS_059LTP
 Flowing station log
 Log Pass (up) 28-Jul-2008 16:09 000:19 3079.5 - 2982.3 FCS_ILS_DEFT_GMS_060LUP
 980fh/hr up log/ Flowing
 Log Pass (down) 28-Jul-2008 16:27 000:10 2982.8 - 3089.1 FCS_ILS_DEFT_GMS_061LDP
 1970fh/hr down log / flowing
 Log Pass (up) 28-Jul-2008 17:39 000:13 2893.2 - 2509.3 FCS_ILS_DEFT_GMS_066LUP
 POOH

Schlumberger

Single Pass Interpretation Flowing

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-11b

Input DLIS Files

28-Jul-2008 16:46

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_096PUP FN:87 PRODUCER 29-Jul-2008 15:09 3079.9 M 2975.5 M

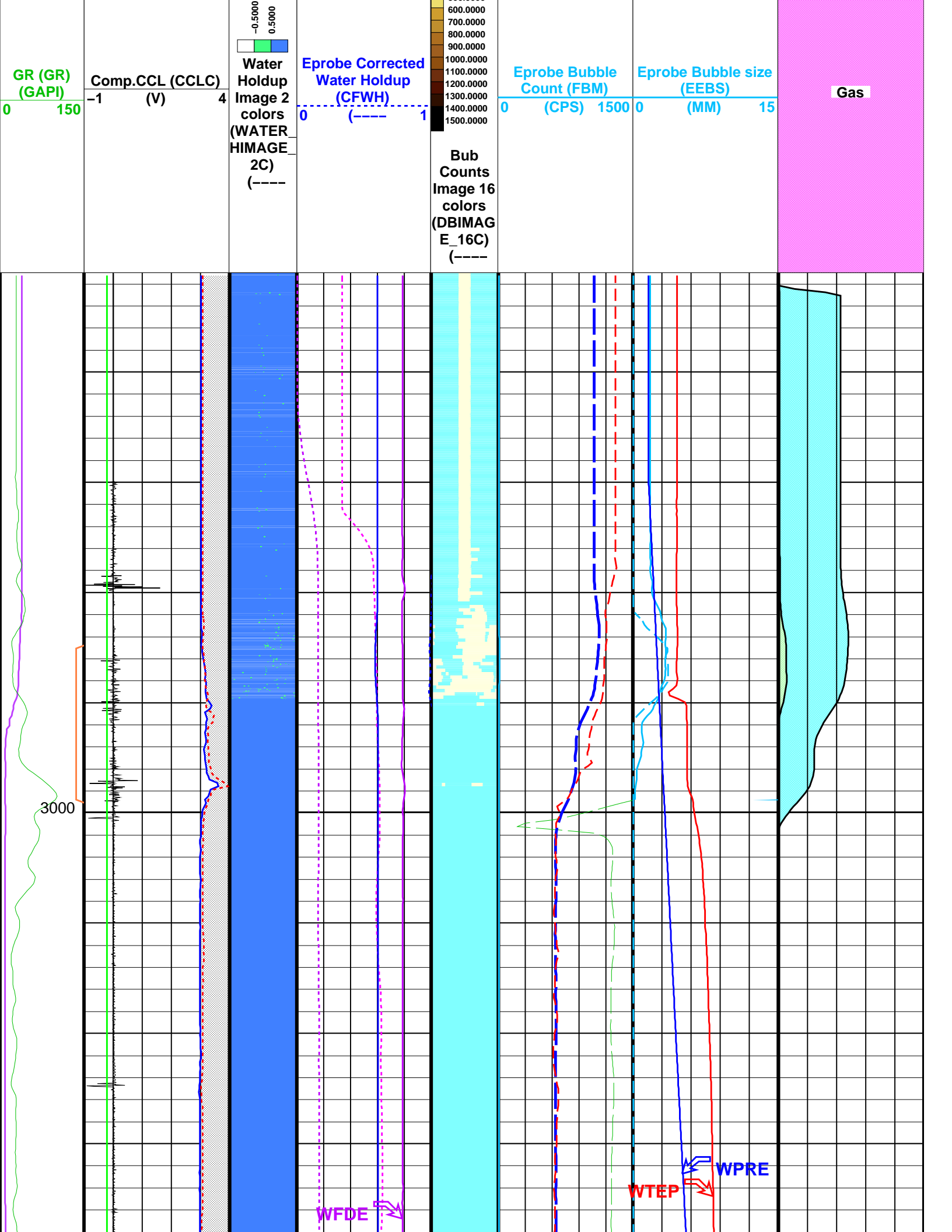
OP System Version: 15C0-309

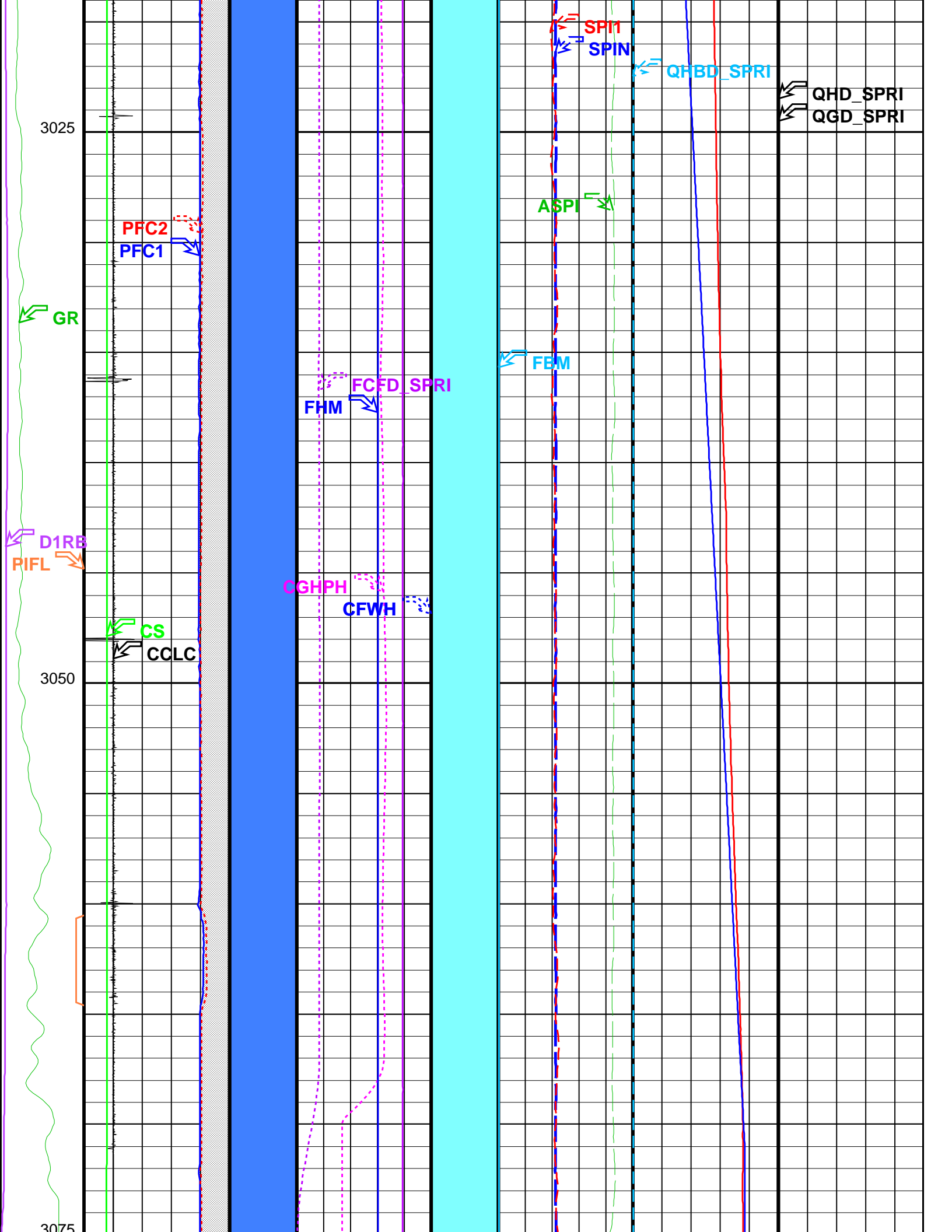
MCM

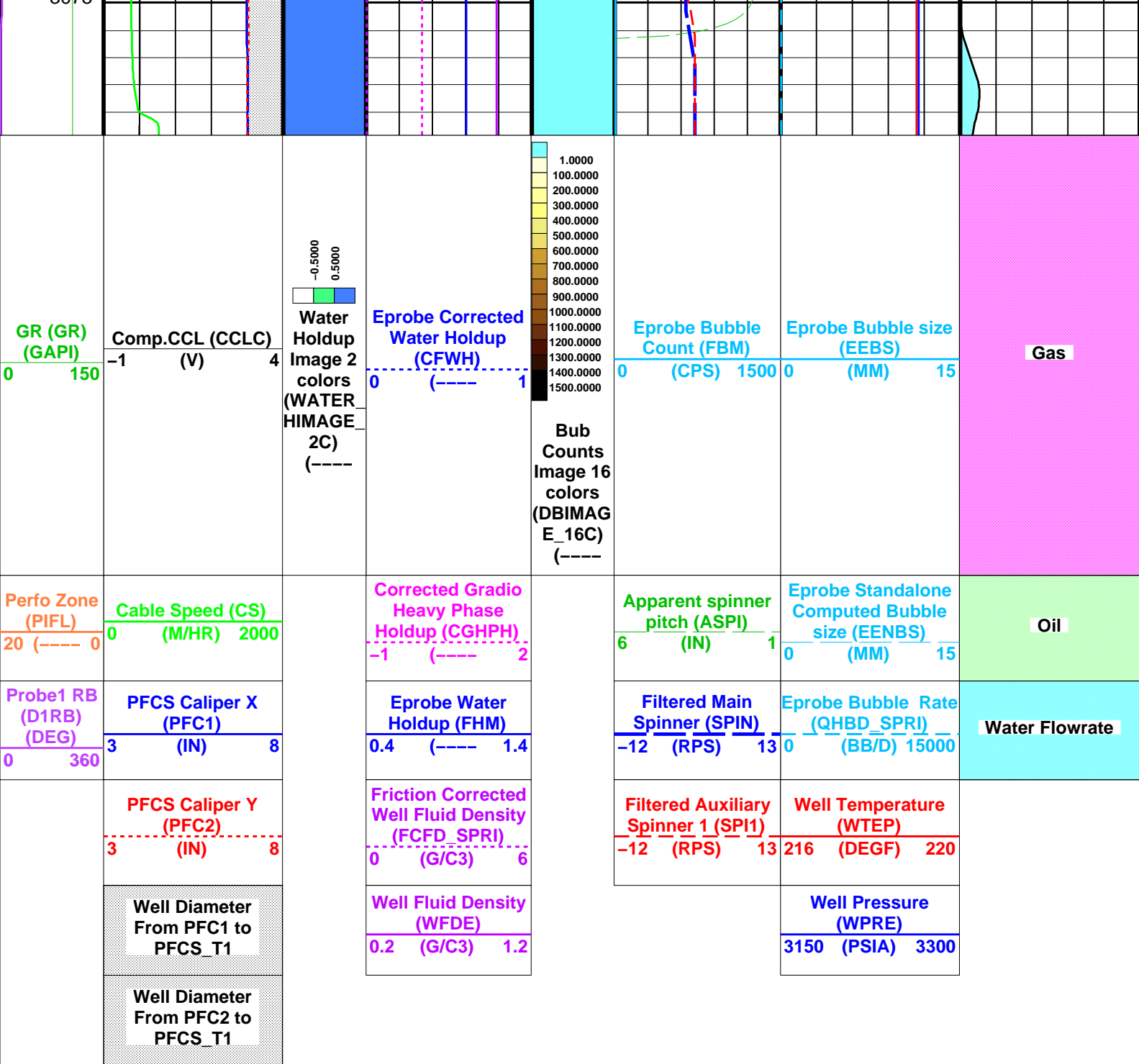
PFCs-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

	Well Diameter From PFC2 to PFCS_T1						
	Well Diameter From PFC1 to PFCS_T1	Well Fluid Density (WFDE) 0.2 (G/C3) 1.2			Well Pressure (WPRE) 3150 (PSIA) 3300		
	PFCS Caliper Y (PFC2) 3 (IN) 8	Friction Corrected Well Fluid Density (FCFD_SPRI) 0 (G/C3) 6		Filtered Auxiliary Spinner 1 (SPI1) -12 (RPS) 13	Well Temperature (WTEP) 216 (DEGF) 220		
Probe1 RB (D1RB) (DEG) 0 360	PFCS Caliper X (PFC1) 3 (IN) 8	Eprobe Water Holdup (FHM) 0.4 (---- 1.4		Filtered Main Spinner (SPIN) -12 (RPS) 13	Eprobe Bubble Rate (QHBD_SPRI) 0 (BB/D) 15000	Water Flowrate	
Perfo Zone (PIFL) 20 (---- 0	Cable Speed (CS) 0 (M/HR) 2000	Corrected Gradio Heavy Phase Holdup (CGHPH) -1 (---- 2		Apparent spinner pitch (ASPI) 6 (IN) 1	Eprobe Standalone Computed Bubble size (EENBS) 0 (MM) 15	Oil	

1.0000
100.0000
200.0000
300.0000
400.0000
500.0000







Format: SPRINT_PFCImage_DL Vertical Scale: 1:200 Graphics File Created: 29-Jul-2008 15:09

OP System Version: 15C0-309

MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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.	6.875 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	A

GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
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	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	6.875	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	
PGMC-A/B: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	6.875	IN
GCPG	Gradio Surf.Cal Diff.Pres Gain	1	
GCPO	Gradio Surf.Cal Diff.Pres Offset	0	KPAA
PDSH	Gradio Correction Density Shift	0	G/C3
PSPT-A/B: Production Services Logging Platform			
CSID	Casing Size I.D.	6.875	IN
GDEV	Average Angular Deviation of Borehole from Normal	33	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
GFEFC	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	YES	
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	YES	
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.	6.875	IN
System and Miscellaneous			
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files

28-Jul-2008 16:46

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_096PUP FN:87 PRODUCER 29-Jul-2008 15:09



Down Log @ 1970 ft/hr
Flowing

MAXIS Field Log

Input DLIS Files

Output DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_096PUP

FN:87

PRODUCER

29-Jul-2008 15:09

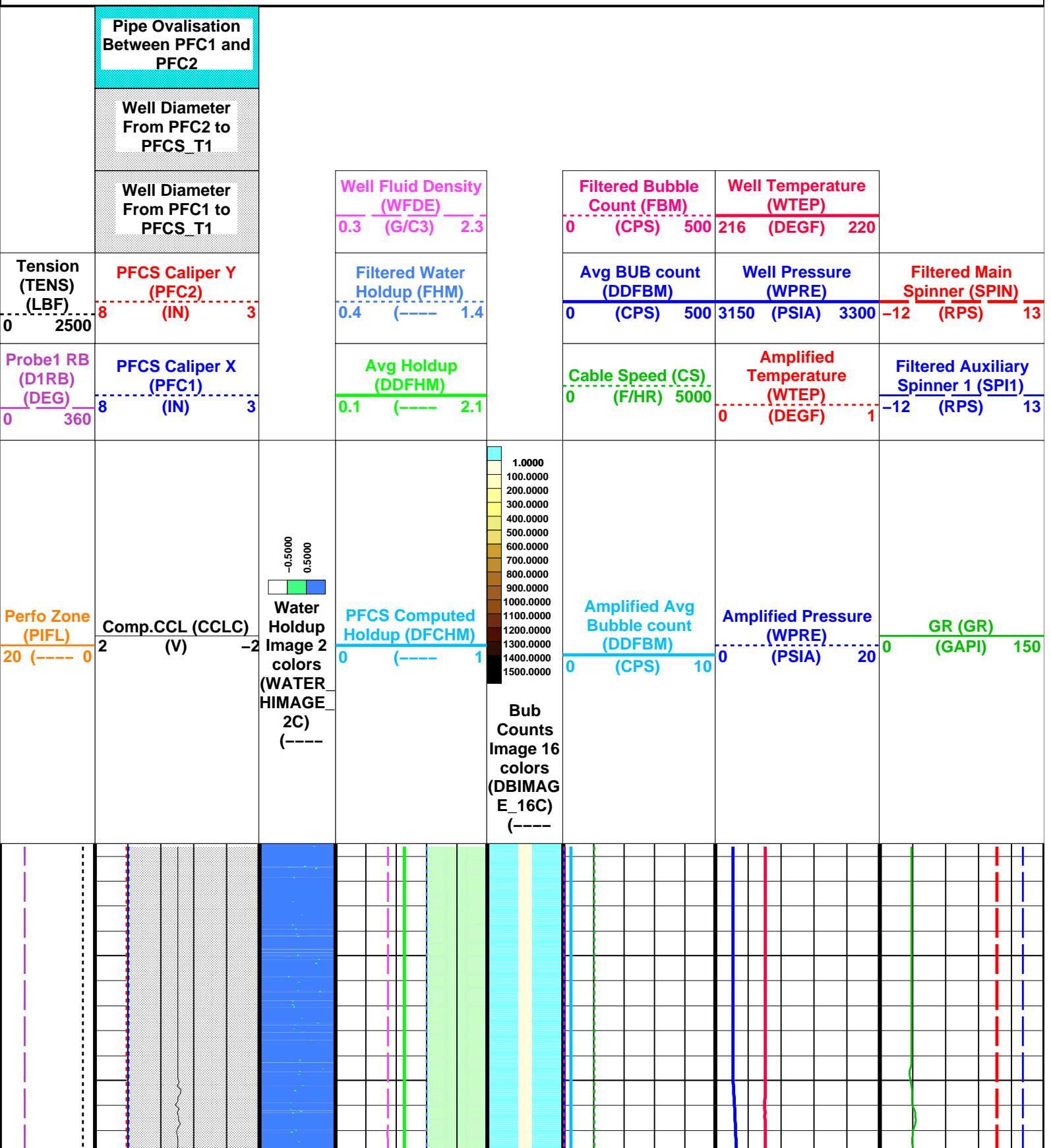
3079.9 M

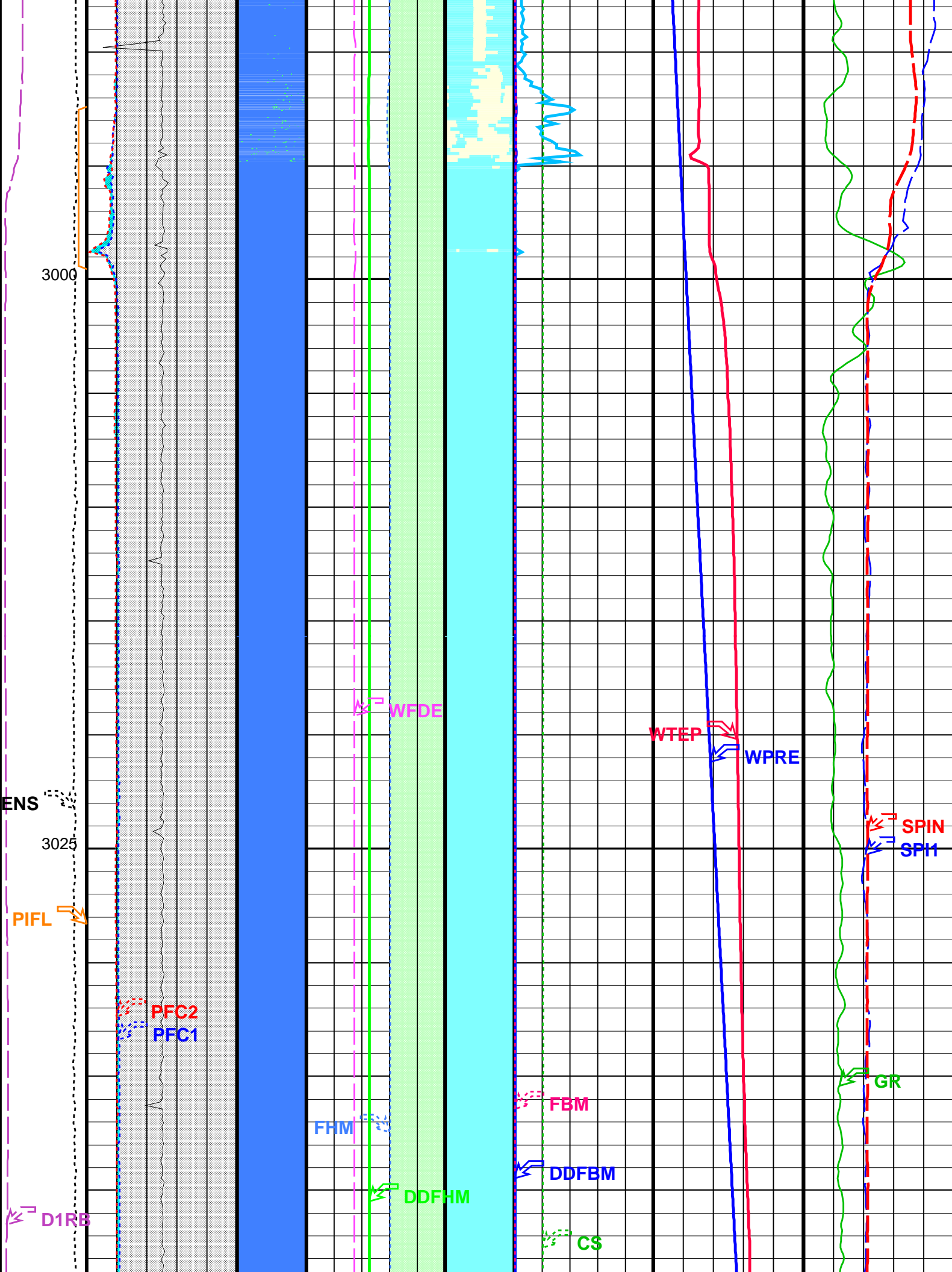
2975.5 M

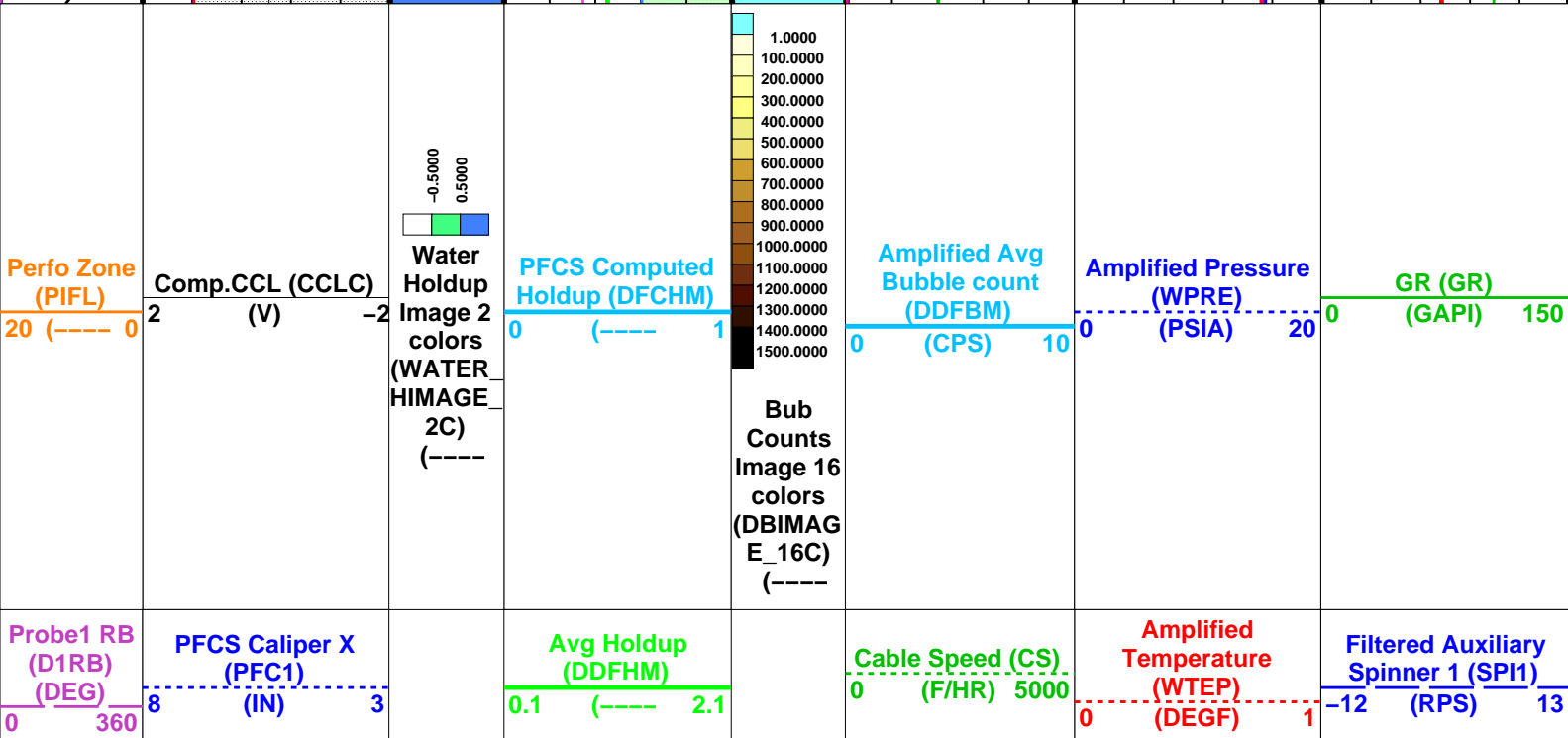
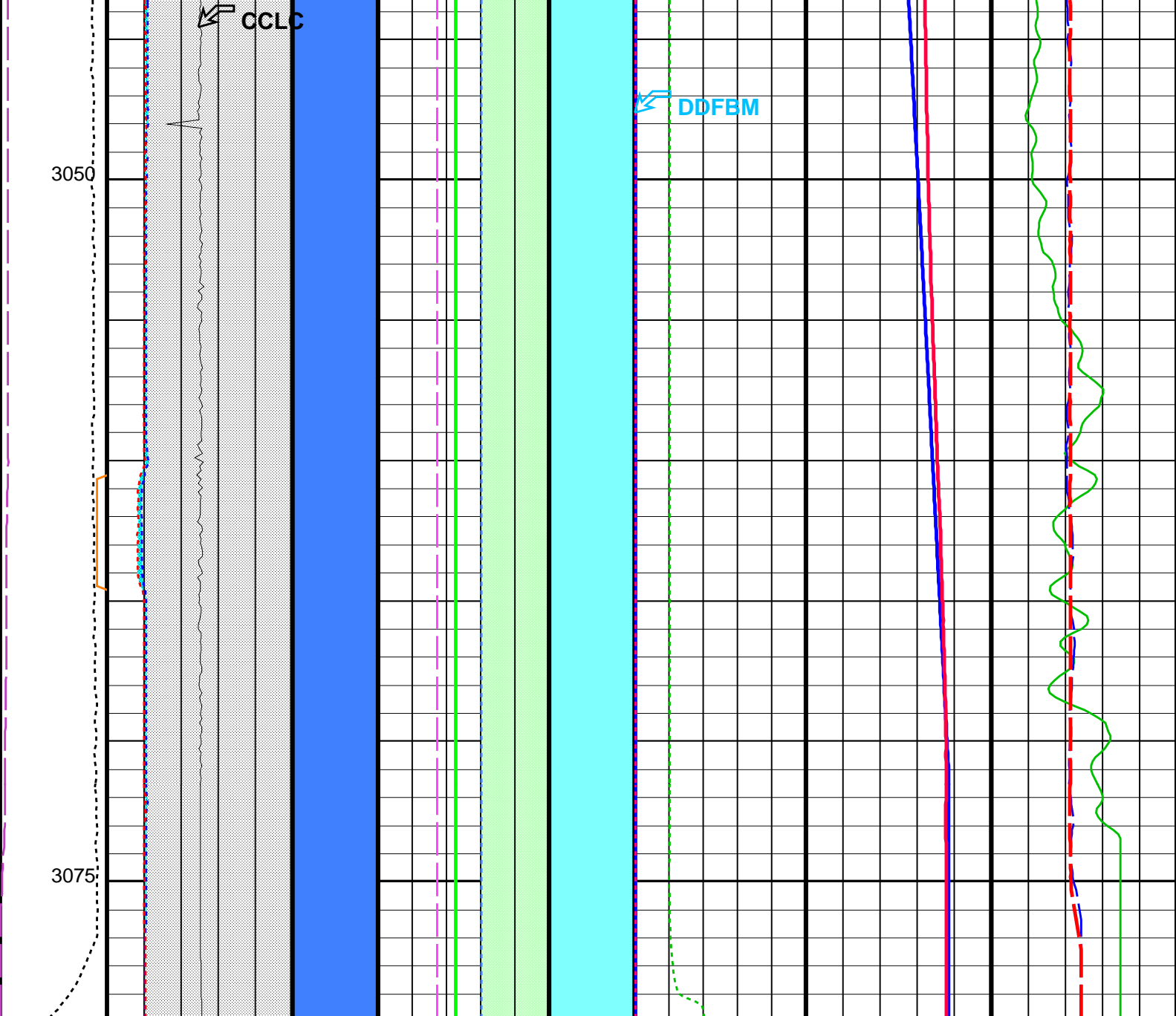
OP System Version: 15C0-309

MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		







Tension (TENS) (LBF) 0 2500	PFCs Caliper Y (PFC2) (IN)	Filtered Water Holdup (FHM) 0.4 (----) 1.4	Avg BUB count (DDFBM) 0 (CPS) 500	Well Pressure (WPRE) 3150 (PSIA) 3300	Filtered Main Spinner (SPIN) -12 (RPS) 13
	Well Diameter From PFC1 to PFCs_T1	Well Fluid Density (WFDE) 0.3 (G/C3) 2.3	Filtered Bubble Count (FBM) 0 (CPS) 500	Well Temperature (WTEP) 216 (DEGF) 220	
	Well Diameter From PFC2 to PFCs_T1				
	Pipe Ovalisation Between PFC1 and PFC2				

Format: PFCs_Image_DL

Vertical Scale: 1:200

Graphics File Created: 29-Jul-2008 15:09

OP System Version: 15C0-309			
MCM			
PFCs-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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.	6.875	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	A	
GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
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	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	6.875	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	
DFPP2	Probes Arm Position (2nd tool)	C	
PGMC-A/B: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	6.875	IN
GCPG	Gradio Surf.Cal Diff.Pres Gain	1	
GCPO	Gradio Surf.Cal Diff.Pres Offset	0	KPAA
PDSH	Gradio Correction Density Shift	0	G/C3
PSPT-A/B: Production Services Logging Platform			
CSID	Casing Size I.D.	6.875	IN
GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	6.875	IN
System and Miscellaneous			
CSIZ	Current Casing Size	7.625	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files	
28-Jul-2008 16:46	

Output DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_096PUP

FN:87

PRODUCER

29-Jul-2008 15:09

Input DLIS Files

28-Jul-2008 16:46

Output DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_096PUP

FN:87

PRODUCER

29-Jul-2008 15:09

3079.9 M

2975.5 M

OP System Version: 15C0-309

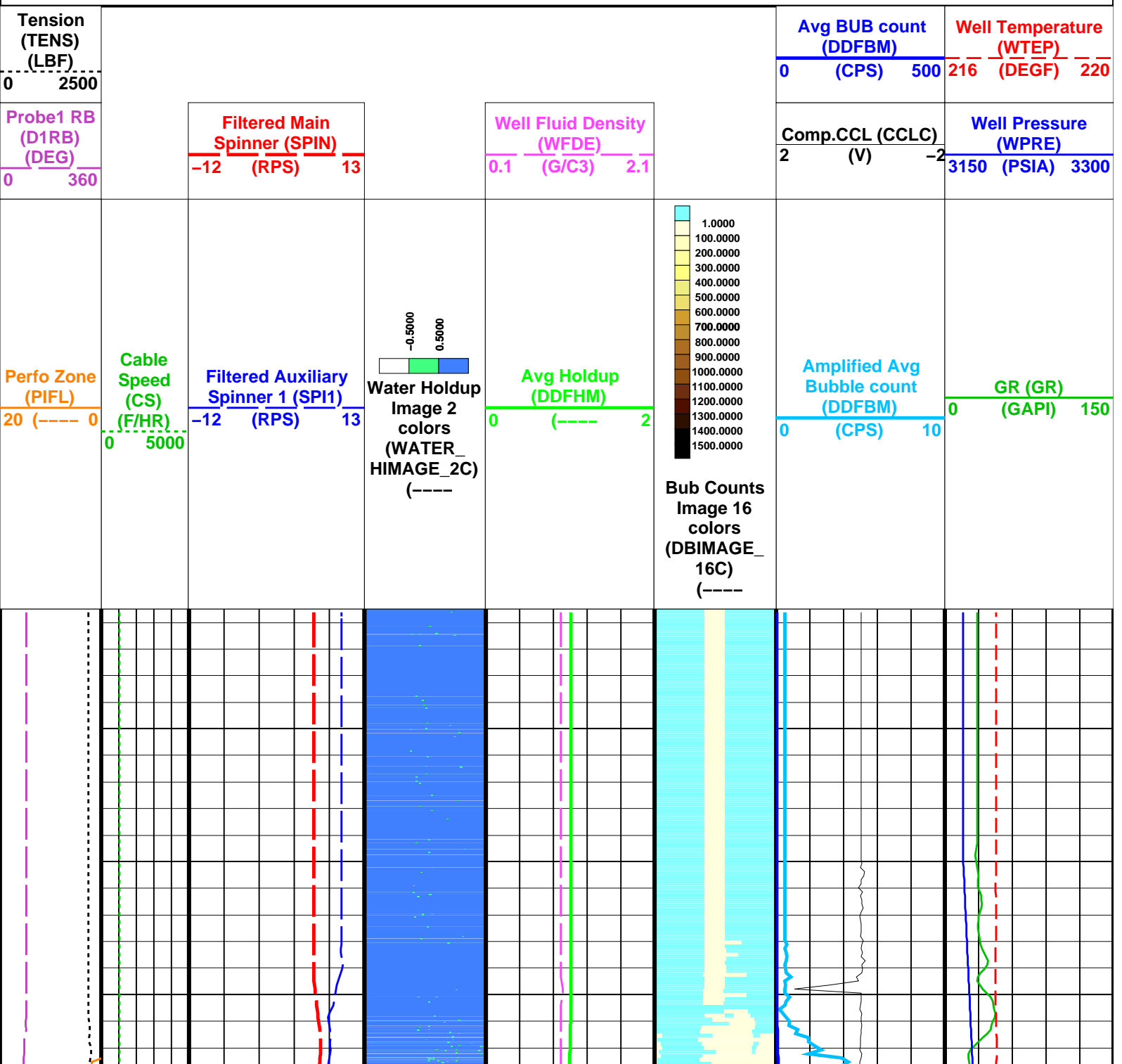
MCM

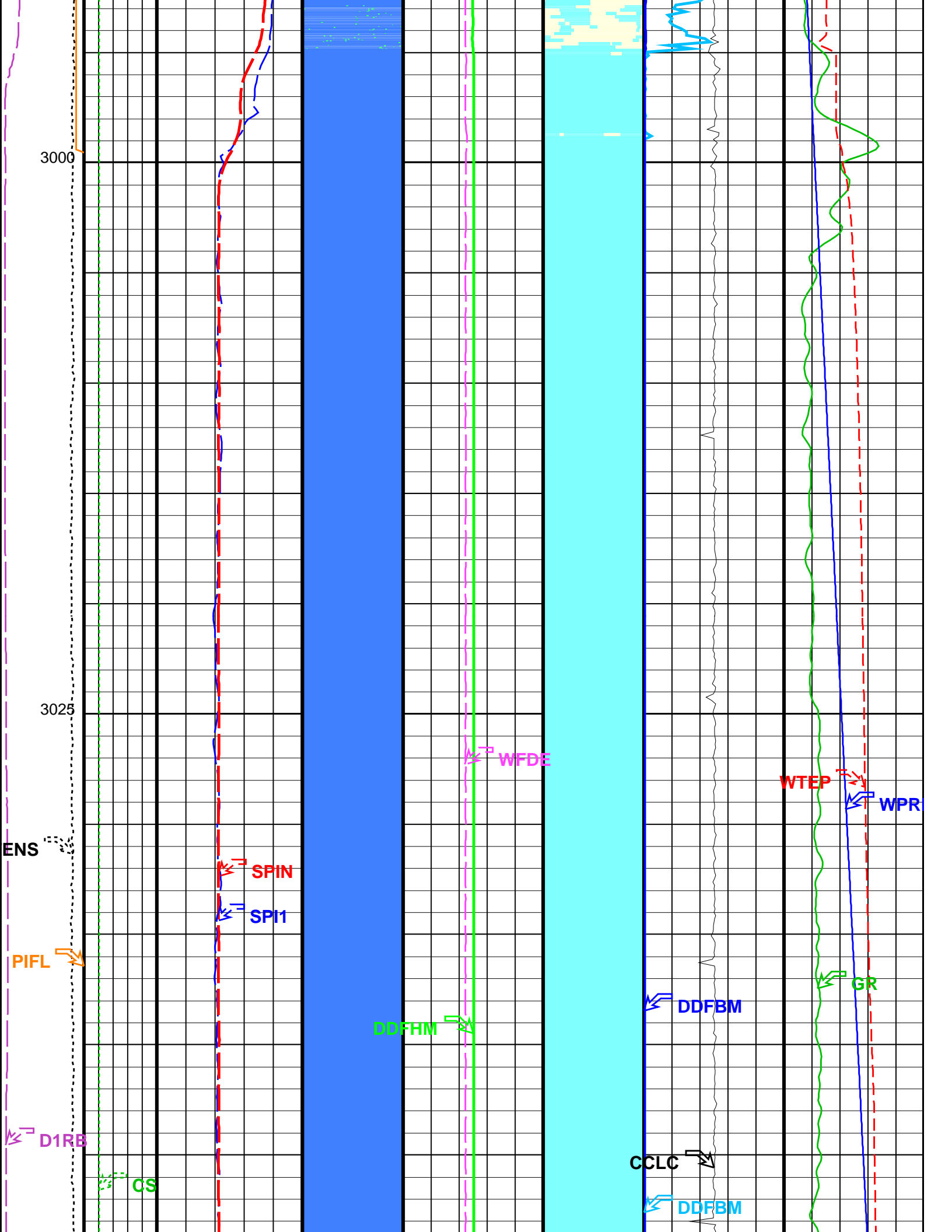
PFCS-A
DEFT-C2
PSPT-A/B

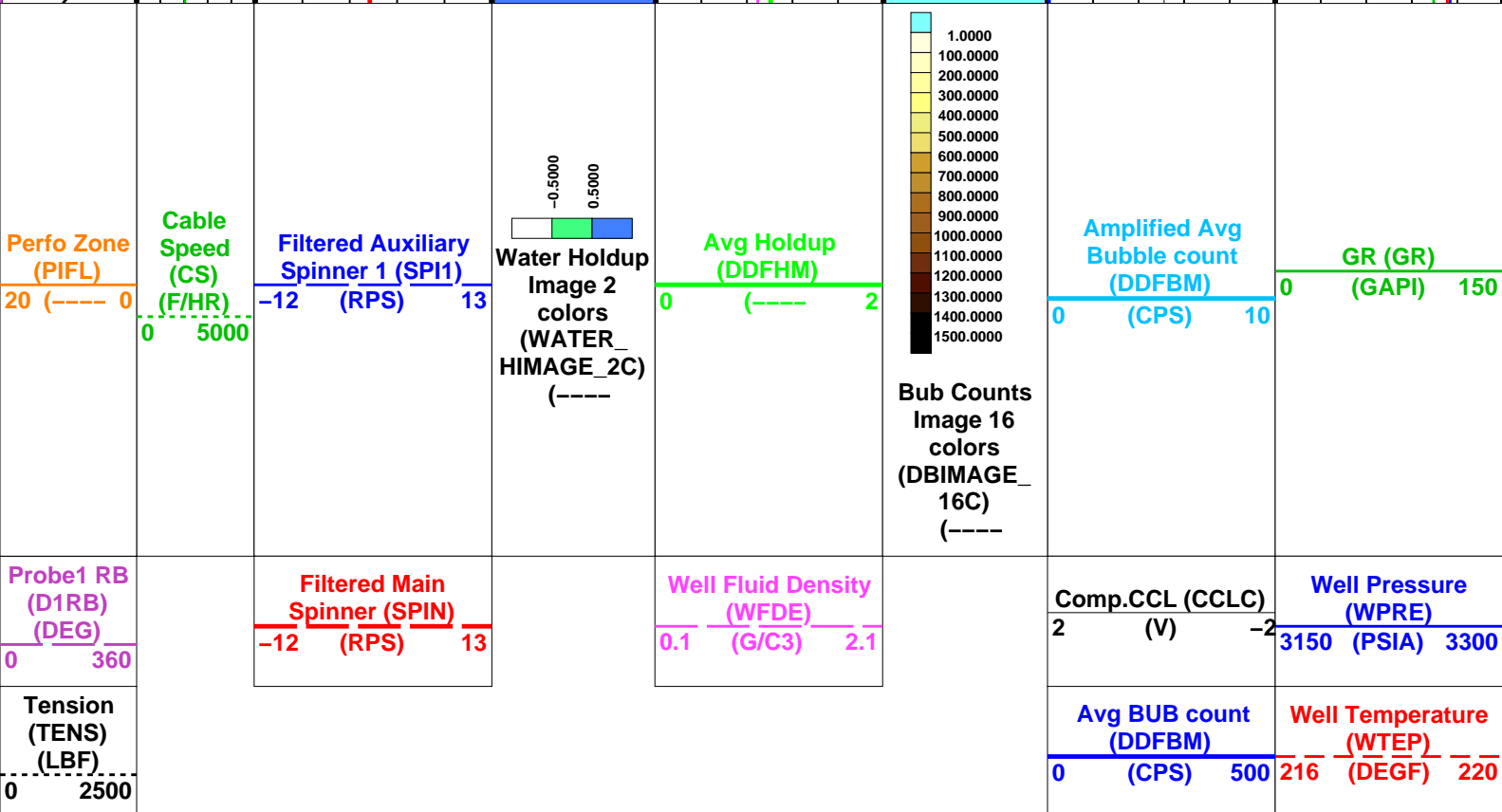
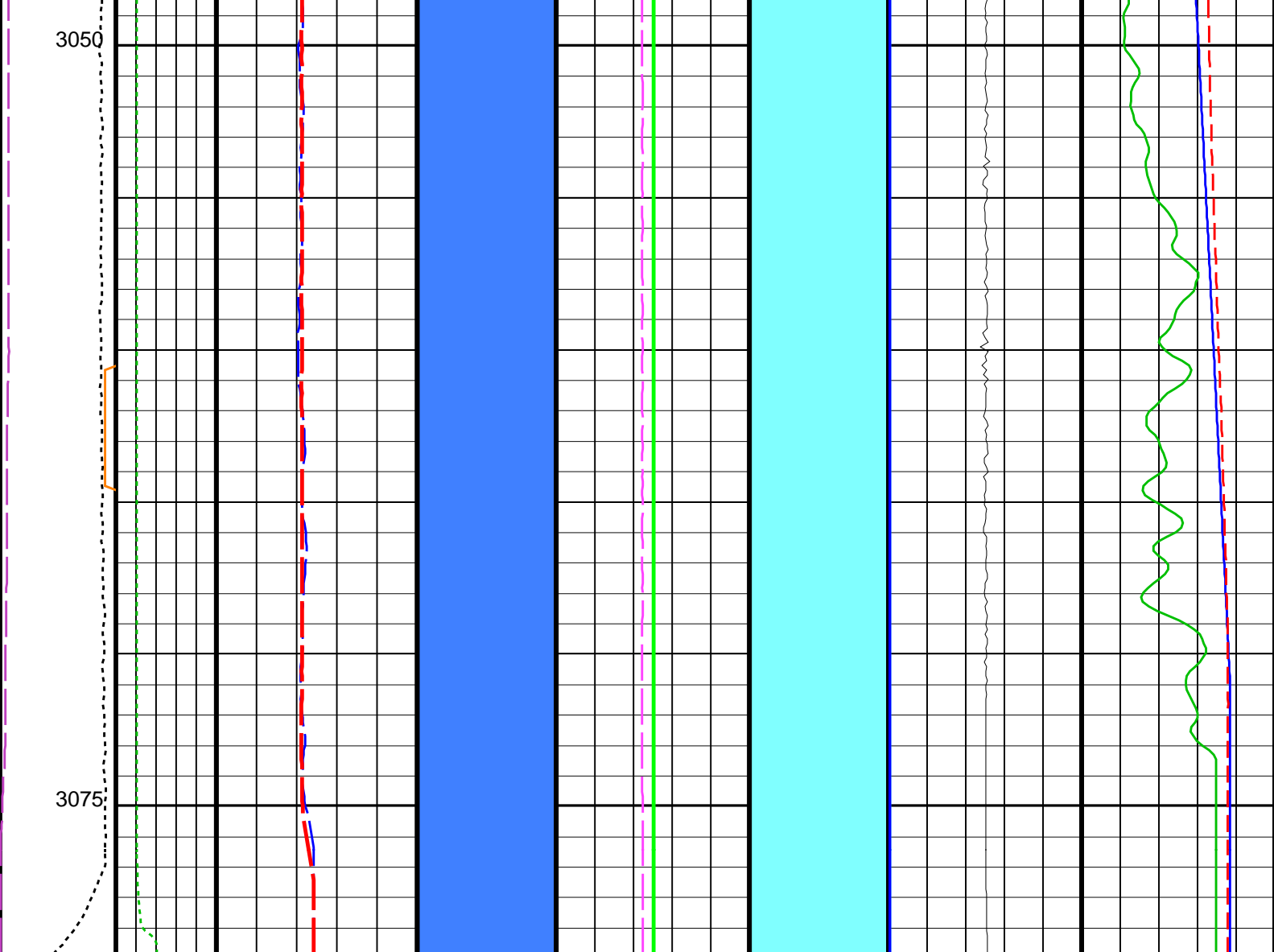
SRPC-3546-Q1_2008_OP15
SRPC-3546-Q1_2008_OP15
SRPC-3546-Q1_2008_OP15

PILS-A
PGMC-A/B

SRPC-3546-Q1_2008_OP15
SRPC-3546-Q1_2008_OP15







OP System Version: 15C0-309

MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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.	6.875 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	A
GDEV	Average Angular Deviation of Borehole from Normal	33 DEG
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
DEFT-C2: DEFT_C Tool		
CSID	Casing Size I.D.	6.875 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
PGMC-A/B: PSP Gradiomanometer Measurement Module		
CSID	Casing Size I.D.	6.875 IN
GCPG	Gradio Surf.Cal Diff.Pres Gain	1
GCPO	Gradio Surf.Cal Diff.Pres Offset	0 KPAA
PDSH	Gradio Correction Density Shift	0 G/C3
PSPT-A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	6.875 IN
GDEV	Average Angular Deviation of Borehole from Normal	33 DEG
BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	6.875 IN
System and Miscellaneous		
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Input DLIS Files

28-Jul-2008 16:46

Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_096PUP	FN:87	PRODUCER	29-Jul-2008 15:09
---------	-------------------------	-------	----------	-------------------

Input DLIS Files

28-Jul-2008 16:46

Output DLIS Files

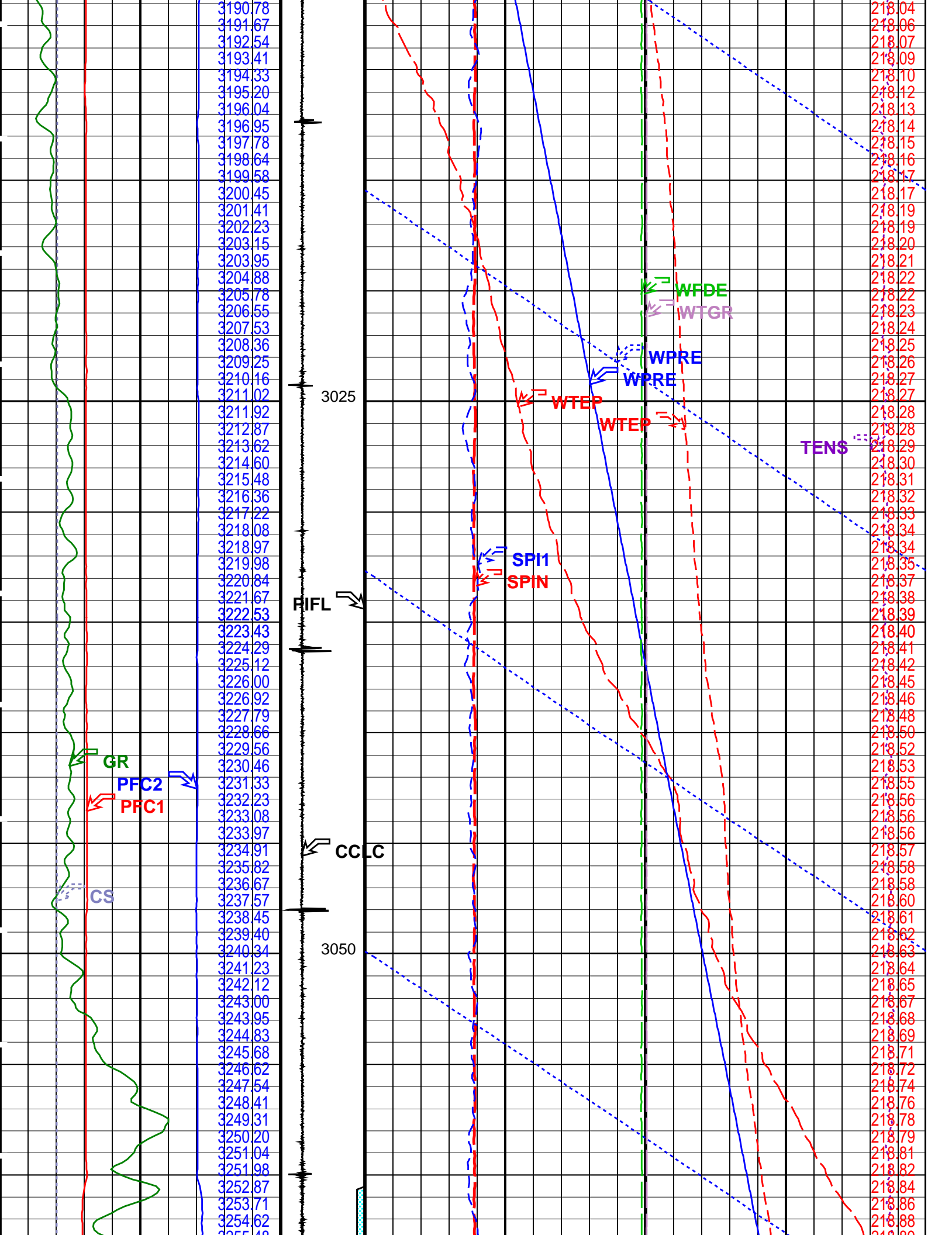
DEFAULT	FCS_ILS_DEFT_GMS_096PUP	FN:87	PRODUCER	29-Jul-2008 15:09	3079.9 M	2975.5 M
---------	-------------------------	-------	----------	-------------------	----------	----------

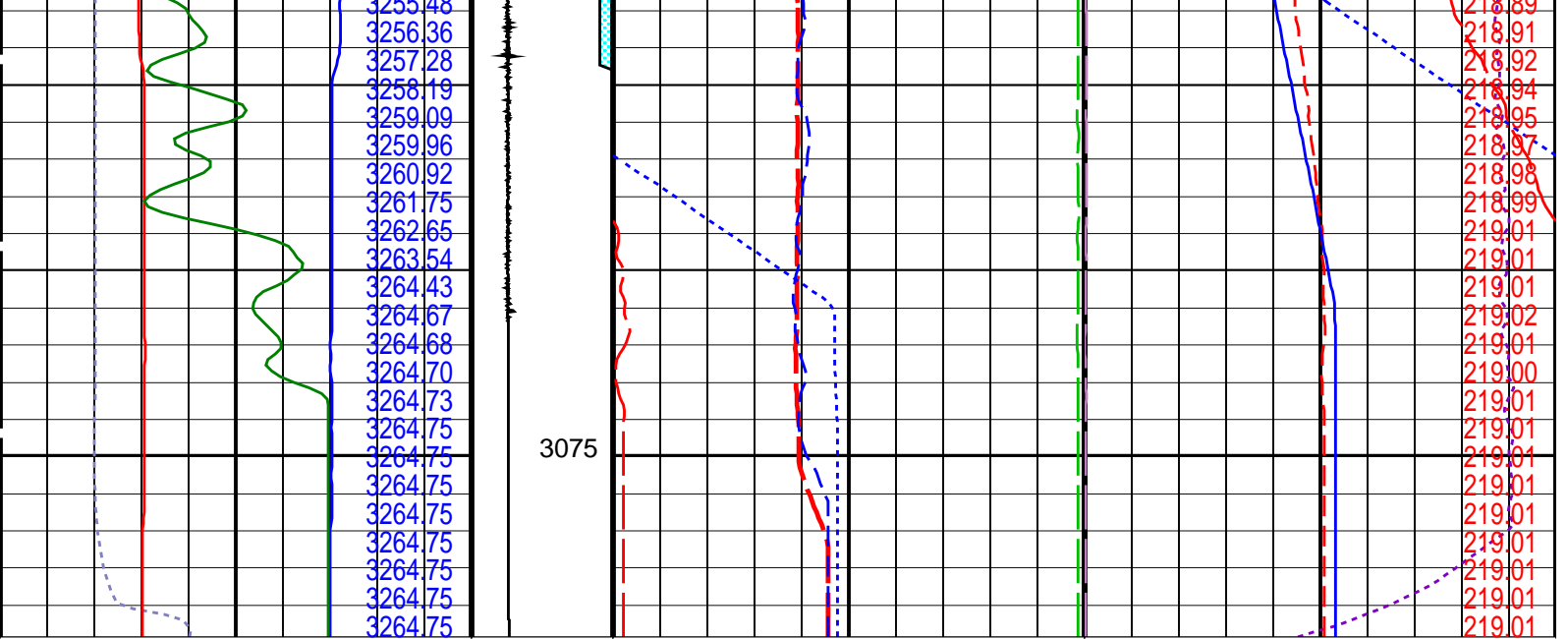
OP System Version: 15C0-309

MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

PIP SUMMARY





Cable Speed (CS) (F/HR)		Computed CCL (CCLC) 1 (V) -3	Filtered Main Spinner (SPIN) (RPS)		Tension (TENS) (LBF)	
0 5000			-10 12		0 2500	
PFCS X Caliper (PFC1) (IN)		Perfo Zone From PERFO_ CURVE to D3T	Filtered Auxiliary Spinner 1 (SPI1) (RPS)		Well Temperature Gradient (WTGR) (DC/M)	
10 0			-10 12		0 10	
PFCS Y Caliper (PFC2) (IN)			Well Temperature (WTEP) (DEGF)			
0 10			216 220			
Gamma Ray (GR) (GAPI)		Well Pressure (WPRE) (PSIA)	Well Temperature (WTEP) (DEGF)			
0 150			0 1			
			Well Pressure (WPRE) (PSIA)			
			3150 3300			
			Amplified Well Pressure (WPRE) (PSIA)			
			0 20			
			Well Fluid Density (WFDE) (G/C3)			
		0 2				
					Well Temperature (WTEP) (DEGF)	

PIP SUMMARY

Time Mark Every 60 S
Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 29-Jul-2008 15:09

OP System Version: 15C0-309
MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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
GDEV	Average Angular Deviation of Borehole from Normal	33 DEG
SDCF	Spinner Depth Constant Filter	6
SPM	Auxiliary Spinner 1 Flowmeter Sander	PILS-A

SP11		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	
SP11		Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
SPIN		Main Spinner Flowmeter Sonde	PFCS-A_3.5	
	PGMC-A/B:	PSP Gradiomanometer Measurement Module		
GCPG		Gradio Surf.Cal Diff.Pres Gain	1	
GCPO		Gradio Surf.Cal Diff.Pres Offset	0	KPAA
PDSH		Gradio Correction Density Shift	0	G/C3
	PSPT-A/B:	Production Services Logging Platform		
GDEV		Average Angular Deviation of Borehole from Normal	33	DEG
	System and Miscellaneous			
DO		Depth Offset for Playback	0.0	M
PP		Playback Processing	NORMAL	

Input DLIS Files

28-Jul-2008 16:46

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_096PUP FN:87 PRODUCER 29-Jul-2008 15:09

Schlumberger

Up Log @ 980 ft/hr
Flowing

MAXIS Field Log

Input DLIS Files

DEFAULT FLIP_FCS_ILS_DEFT_077 PRODUCER 29-Jul-2008 10:13 3094.5 M 2980.3 M

Output DLIS Files

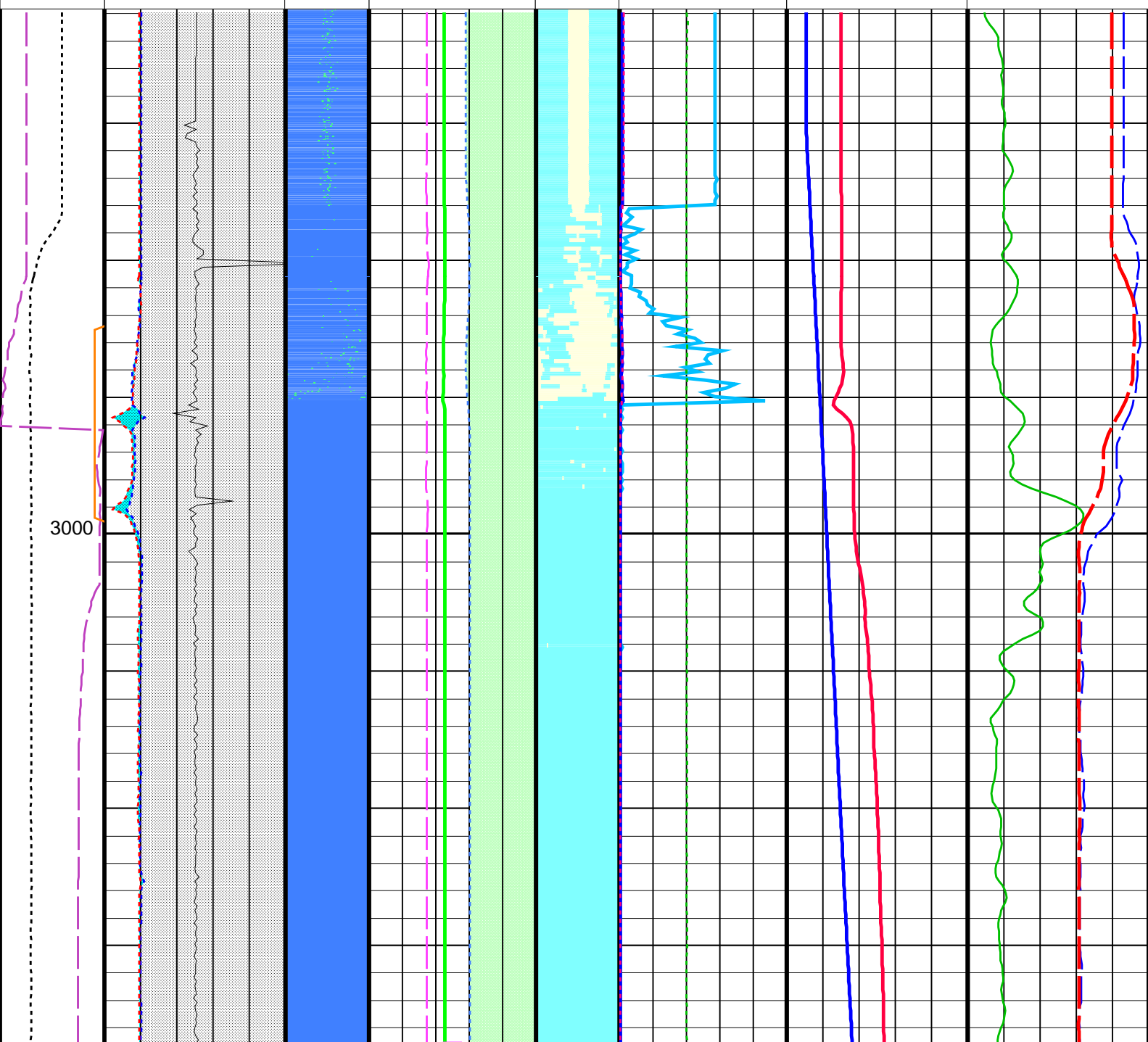
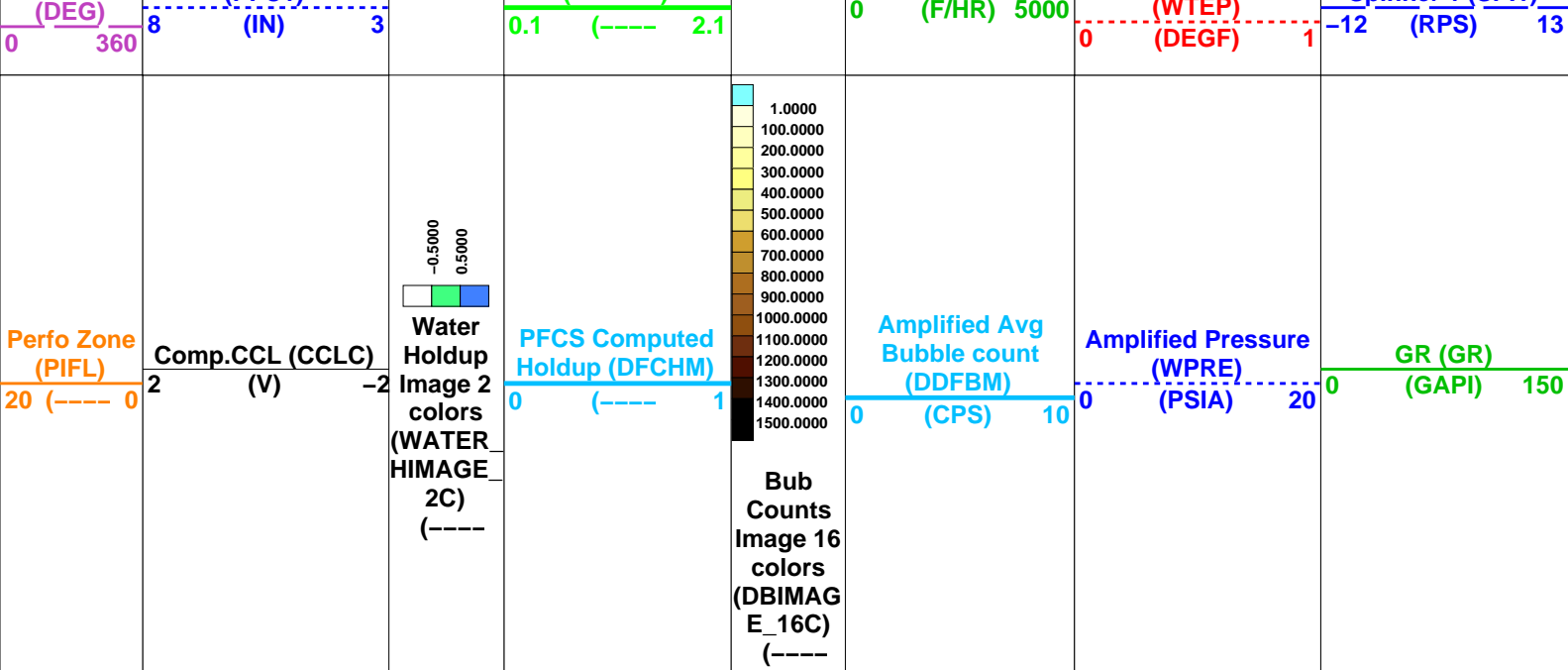
DEFAULT FCS_ILS_DEFT_GMS_081PUP FN:73 PRODUCER 29-Jul-2008 10:56 3094.5 M 2980.8 M

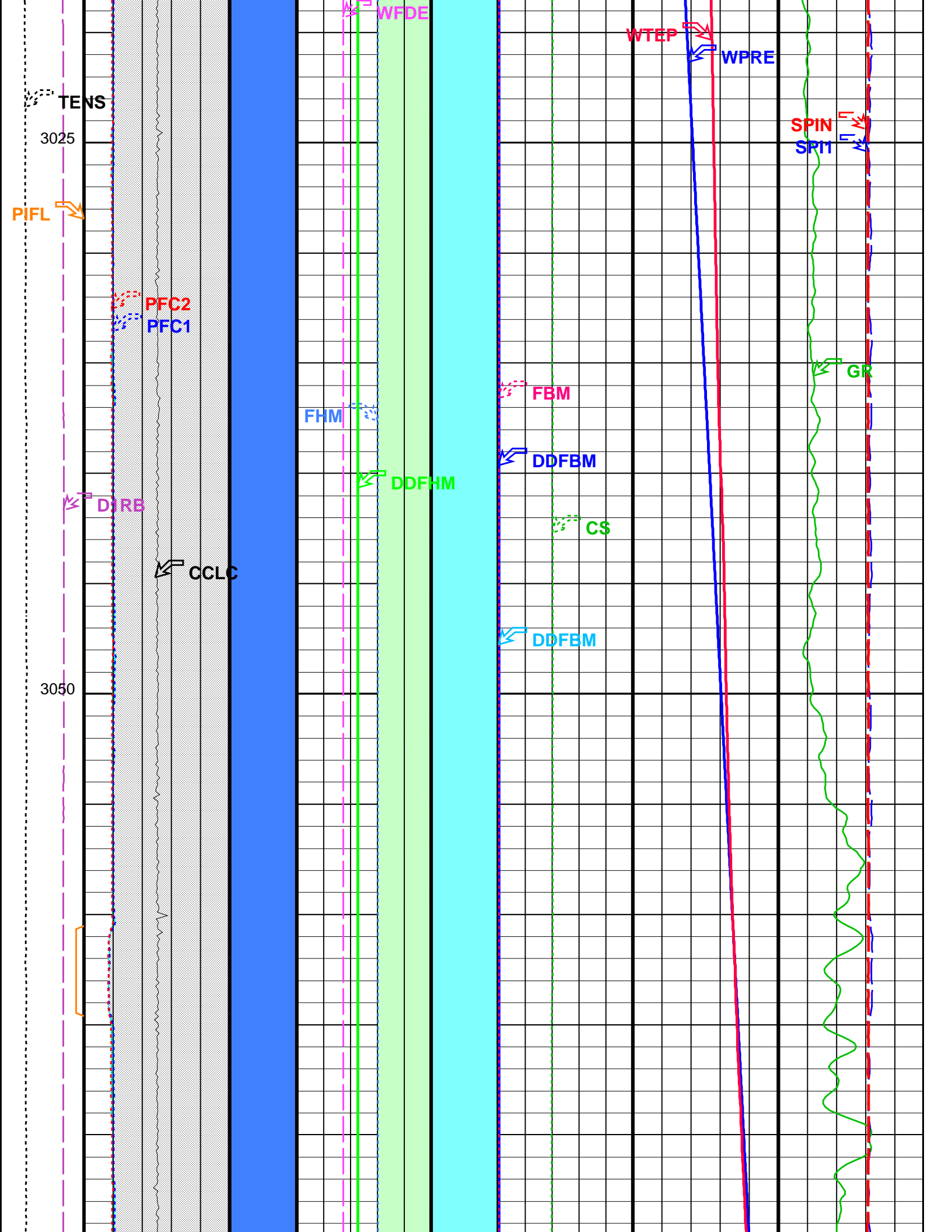
OP System Version: 15C0-309

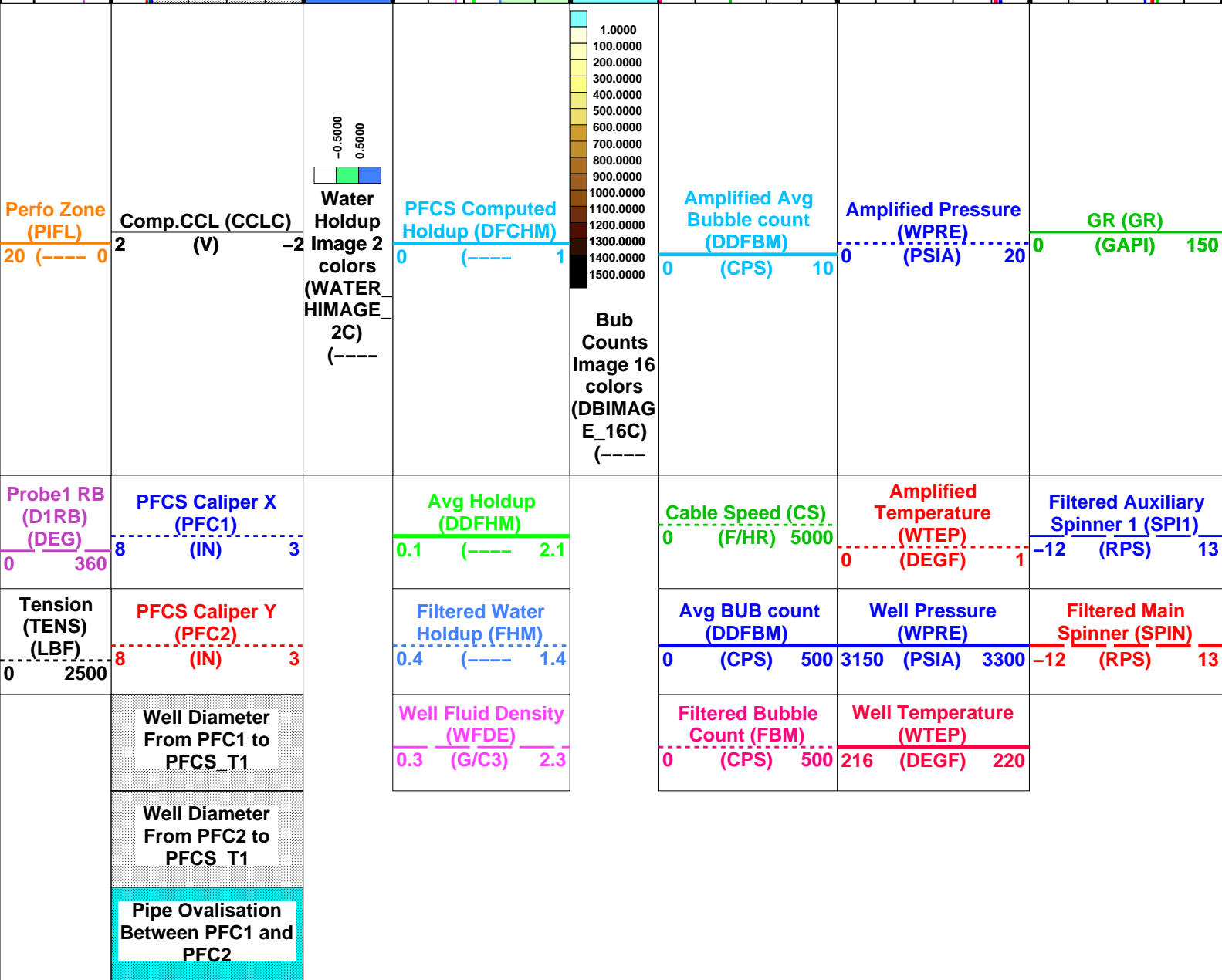
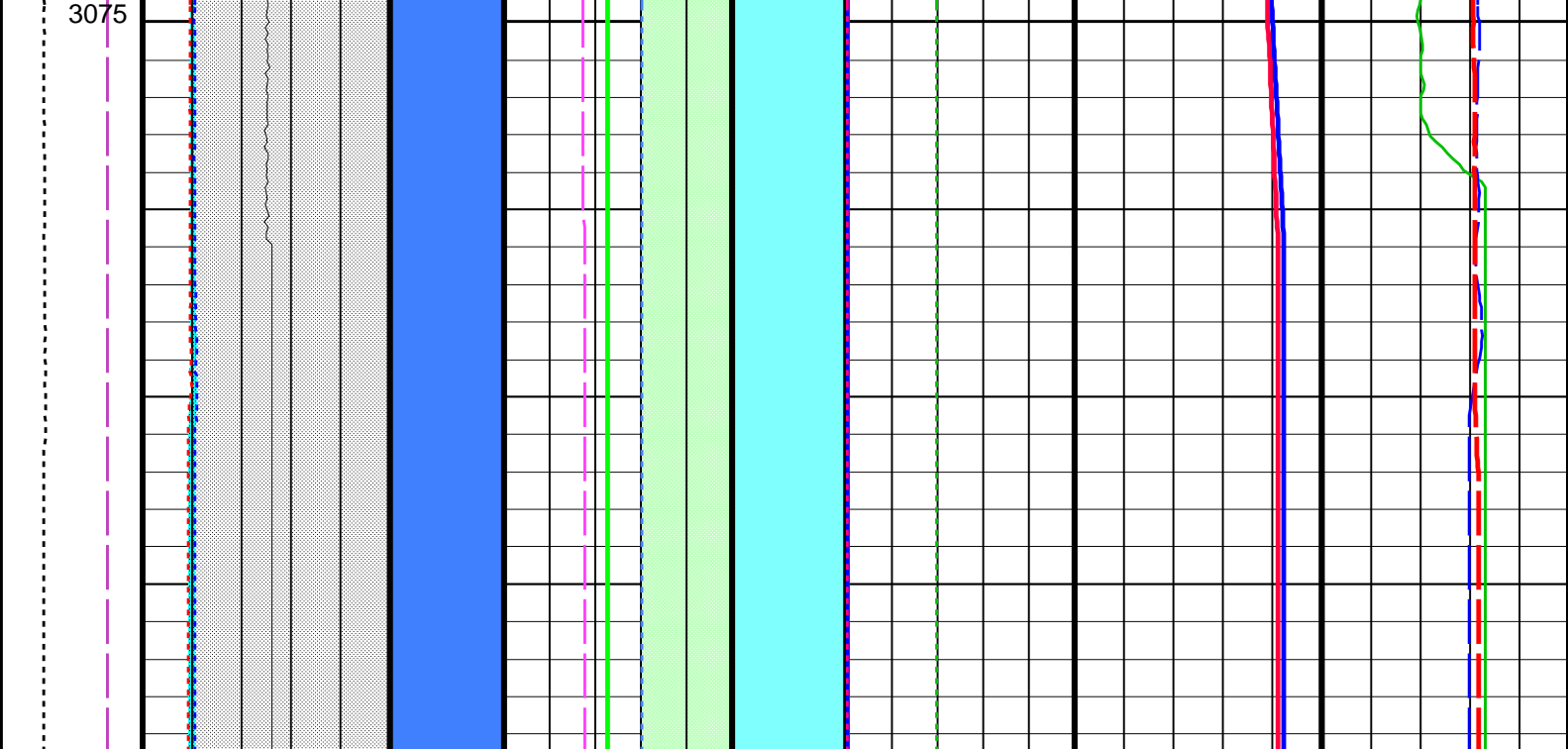
MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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		Well Fluid Density (WFDE) 0.3 (G/C3) 2.3		Filtered Bubble Count (FBM) 0 (CPS) 500		Well Temperature (WTEP) 216 (DEGF) 220			
Tension (TENS) (LBF)	PFCS Caliper Y (PFC2) 8 (IN) 3	Filtered Water Holdup (FHM) 0.4 (----) 1.4		Avg BUB count (DDFBM) 0 (CPS) 500		Well Pressure (WPRE) 3150 (PSIA) 3300		Filtered Main Spinner (SPIN) -12 (RPS) 13	
Probe1 RB (D1RB)	PFCS Caliper X (PFC1)	Avg Holdup (DDFHM)		Cable Speed (CS)		Amplified Temperature		Filtered Auxiliary Spinner 1 (SP11)	







PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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.	6.875 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	A
GDEV	Average Angular Deviation of Borehole from Normal	33 DEG
SDCF	Spinner Depth Constant Filter	6
SP11	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
SP11	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5
DEFT-C2: DEFT_C Tool		
CSID	Casing Size I.D.	6.875 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
DFPP2	Probes Arm Position (2nd tool)	C
PGMC-A/B: PSP Gradiomanometer Measurement Module		
CSID	Casing Size I.D.	6.875 IN
GCPG	Gradio Surf.Cal Diff.Pres Gain	1
GCPO	Gradio Surf.Cal Diff.Pres Offset	0 KPAA
PDSH	Gradio Correction Density Shift	0 G/C3
PSPT-A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	6.875 IN
GDEV	Average Angular Deviation of Borehole from Normal	33 DEG
BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	6.875 IN
System and Miscellaneous		
CSIZ	Current Casing Size	7.625 IN
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT	FLIP_FCS_ILS_DEFT_077	PRODUCER	29-Jul-2008 10:13	3094.5 M	2980.3 M
---------	-----------------------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_081PUP	FN:73	PRODUCER	29-Jul-2008 10:56
---------	-------------------------	-------	----------	-------------------

Input DLIS Files

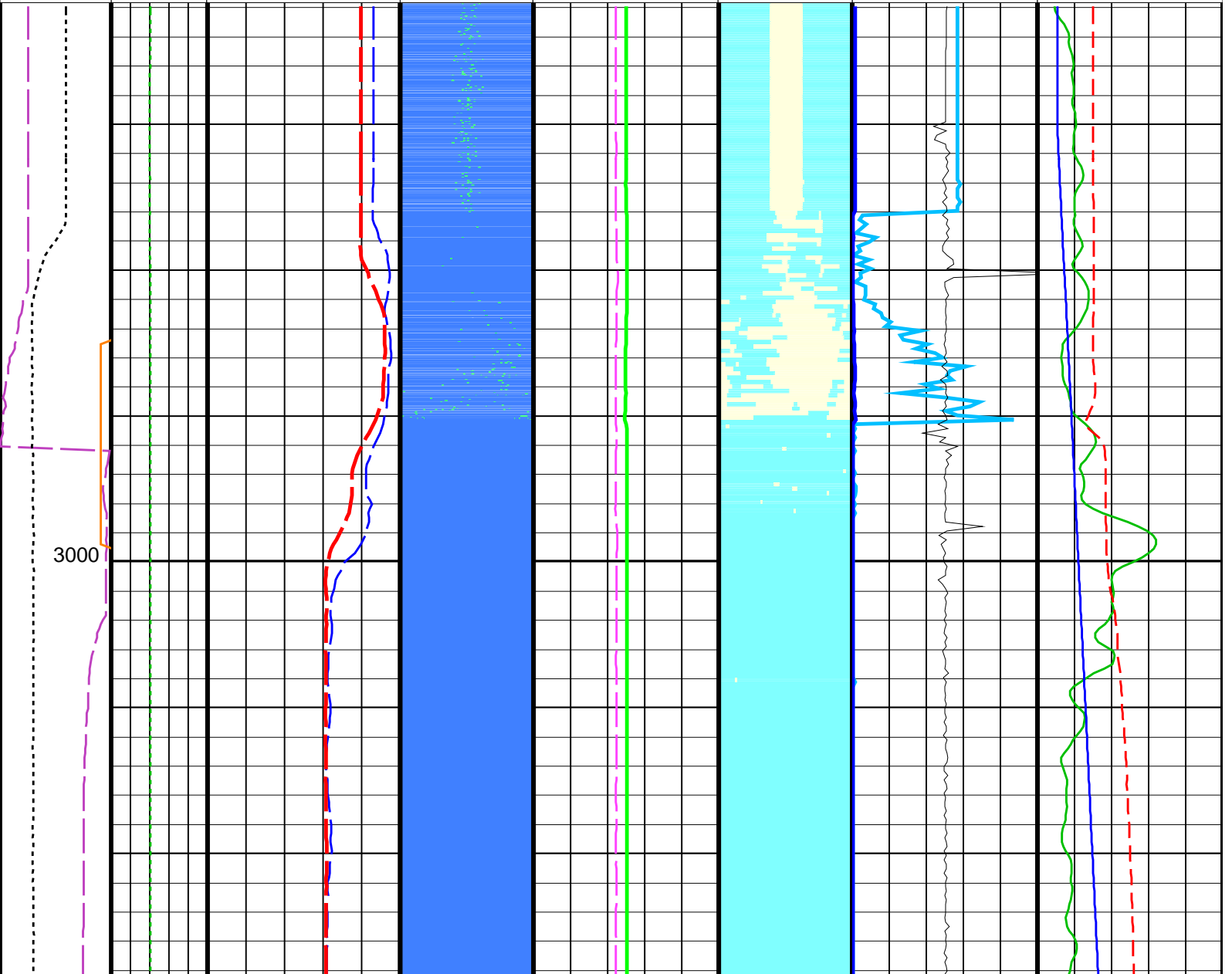
DEFAULT	FLIP_FCS_ILS_DEFT_077	PRODUCER	29-Jul-2008 10:13	3094.5 M	2980.3 M
---------	-----------------------	----------	-------------------	----------	----------

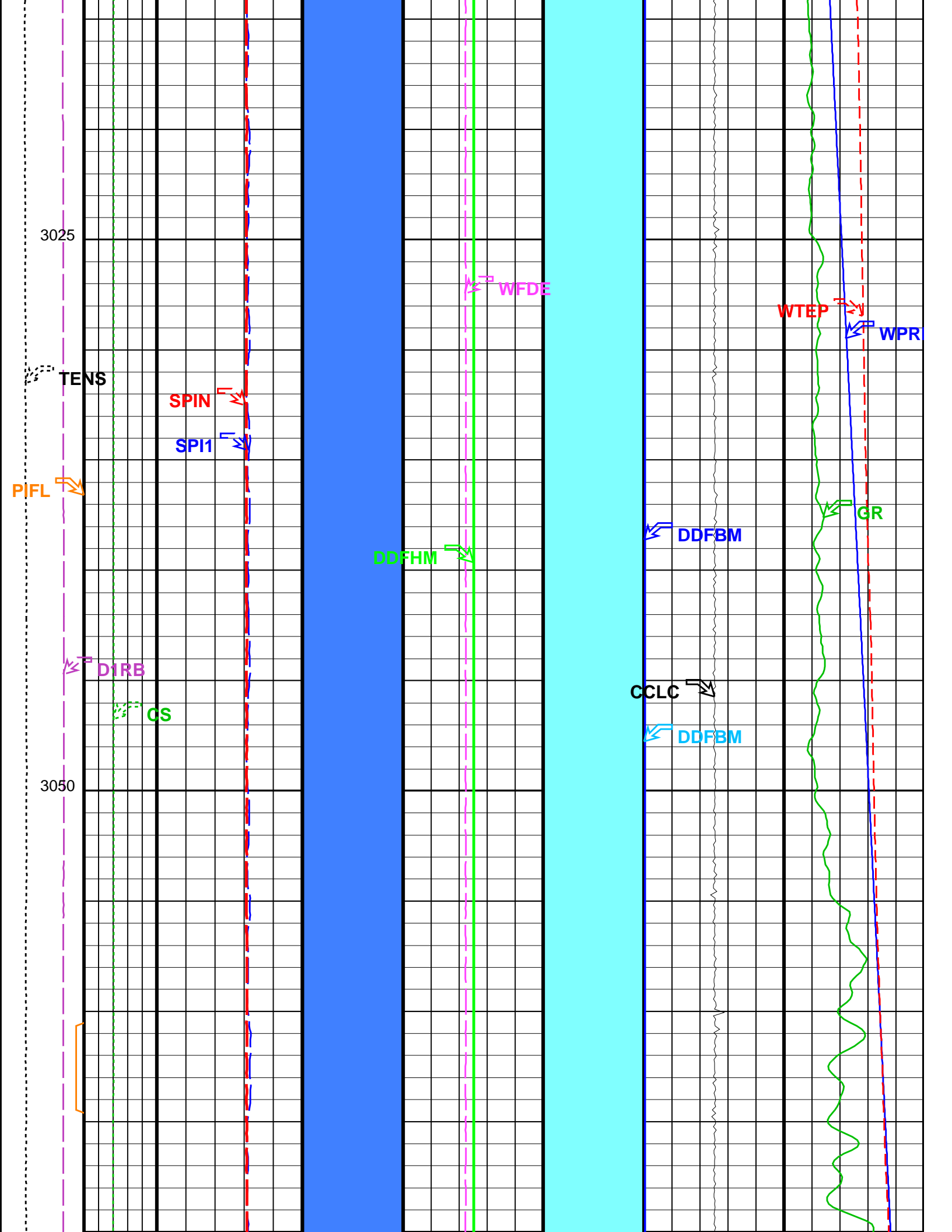
Output DLIS Files

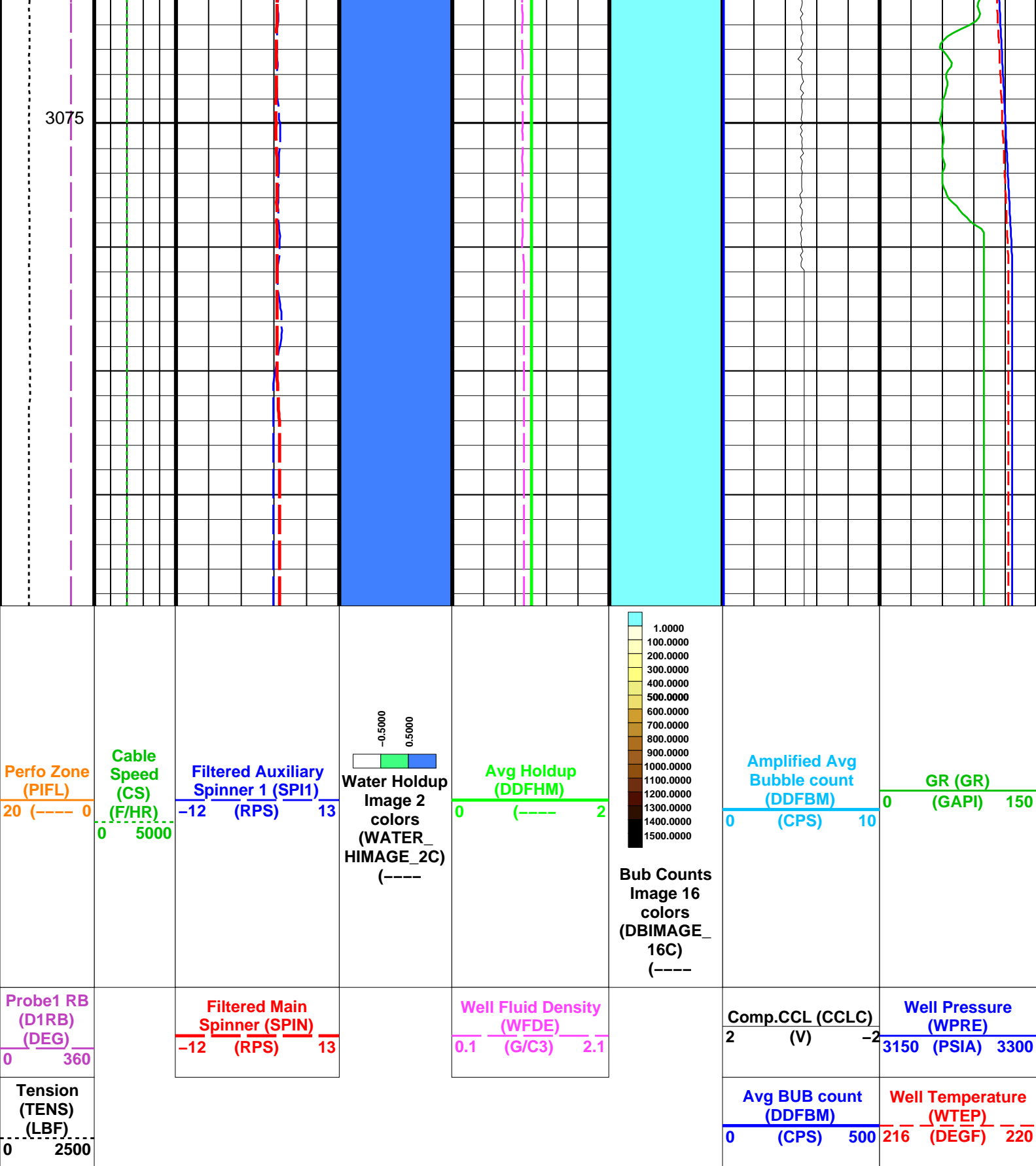
DEFAULT	FCS_ILS_DEFT_GMS_081PUP	FN:73	PRODUCER	29-Jul-2008 10:56	3094.5 M	2980.8 M
---------	-------------------------	-------	----------	-------------------	----------	----------

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

<p>Perfo Zone (PIFL)</p> <p>20 (----- 0)</p>	<p>Cable Speed (CS) (F/HR)</p> <p>0 5000</p>	<p>Filtered Auxiliary Spinner 1 (SPI1) (RPS)</p> <p>-12 13</p>	<p>Water Holdup Image 2 colors (WATER_HIMAGE_2C) (-----)</p> <p>-0.5000 0.5000</p>	<p>Avg Holdup (DDFHM)</p> <p>0 (----- 2)</p>	<p>Bub Counts Image 16 colors (DBIMAGE_16C) (-----)</p> <p>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</p>	<p>Amplified Avg Bubble count (DDFBM) (CPS)</p> <p>0 10</p>	<p>GR (GR) (GAPI)</p> <p>0 150</p>
--	--	--	--	--	--	---	------------------------------------







Format: DEFT_Image_DL Vertical Scale: 1:200 Graphics File Created: 29-Jul-2008 10:56

OP System Version: 15C0-309
MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

Parameters

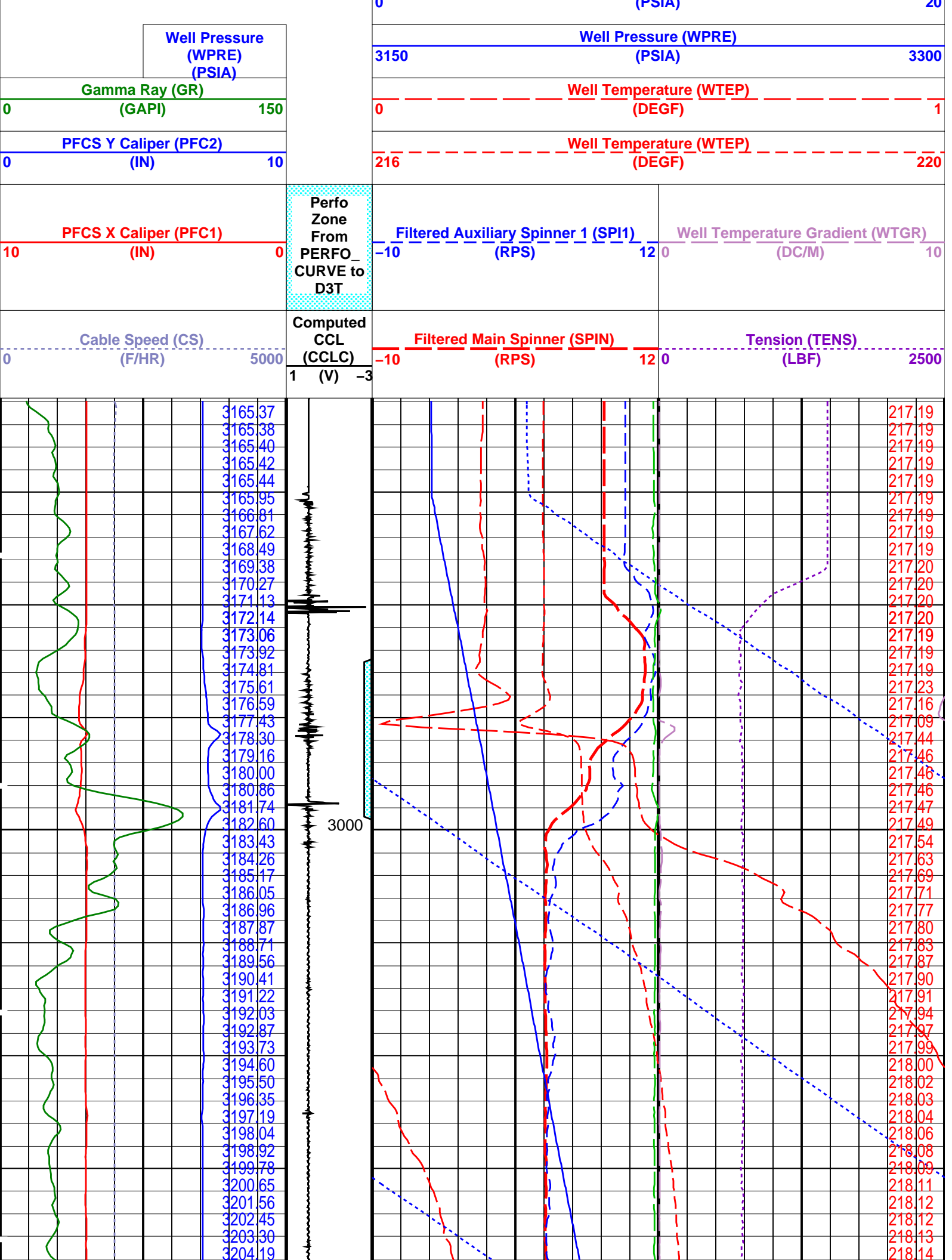
DLIS Name		Description	Value		
PFCS-A: PSP Flow and caliper Tool					
AMOD		Spinner Filter Averaging Mode	LINEAR_AVERAGE		
CSID		Casing Size I.D.	6.875	IN	
DDRC		Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB		
DDRS		Dual DEFT RB Source	D1RB		
DFBD		DEFT Blank Disallowed Probes	NO		
DFFI		DEFT Flip Image	NO		
DFII		DEFT Image Interpolation	YES		
DFIRS		DEFT Image Rotation Selection	TOP_MIDDLE		
DFPP		Probes Arm Position	A		
GDEV		Average Angular Deviation of Borehole from Normal	33	DEG	
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		
DEFT-C2: DEFT_C Tool					
CSID		Casing Size I.D.	6.875	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		
PGMC-A/B: PSP Gradiomanometer Measurement Module					
CSID		Casing Size I.D.	6.875	IN	
GCPG		Gradio Surf.Cal Diff.Pres Gain	1		
GCPO		Gradio Surf.Cal Diff.Pres Offset	0	KPAA	
PDSH		Gradio Correction Density Shift	0	G/C3	
PSPT-A/B: Production Services Logging Platform					
CSID		Casing Size I.D.	6.875	IN	
GDEV		Average Angular Deviation of Borehole from Normal	33	DEG	
BORDYN: BorDyn (Well Test Validation)					
CSID		Casing Size I.D.	6.875	IN	
System and Miscellaneous					
DO		Depth Offset for Playback	0.0	M	
PP		Playback Processing	NORMAL		

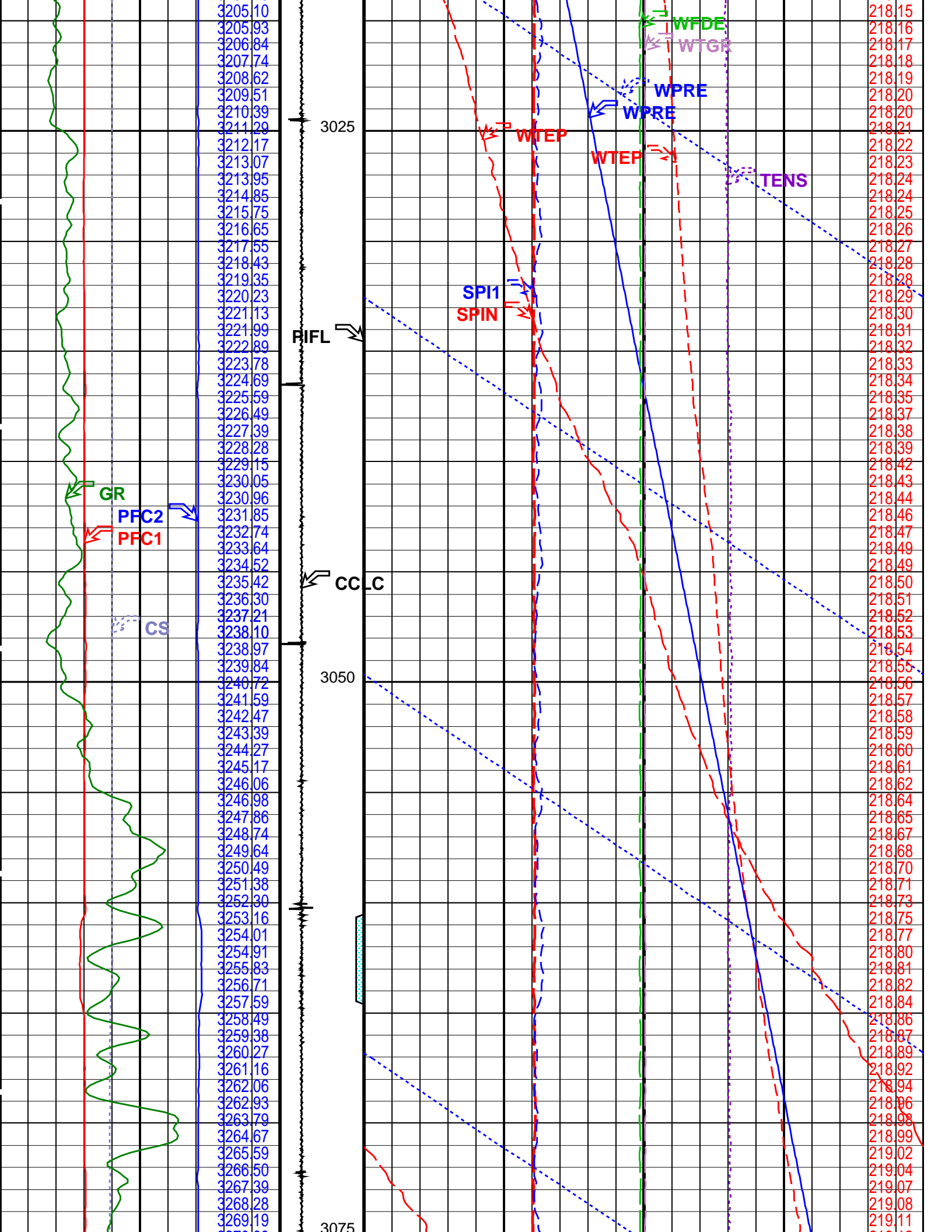
Input DLIS Files					
DEFAULT	FLIP_FCS_ILS_DEFT_077	PRODUCER	29-Jul-2008 10:13	3094.5 M	2980.3 M

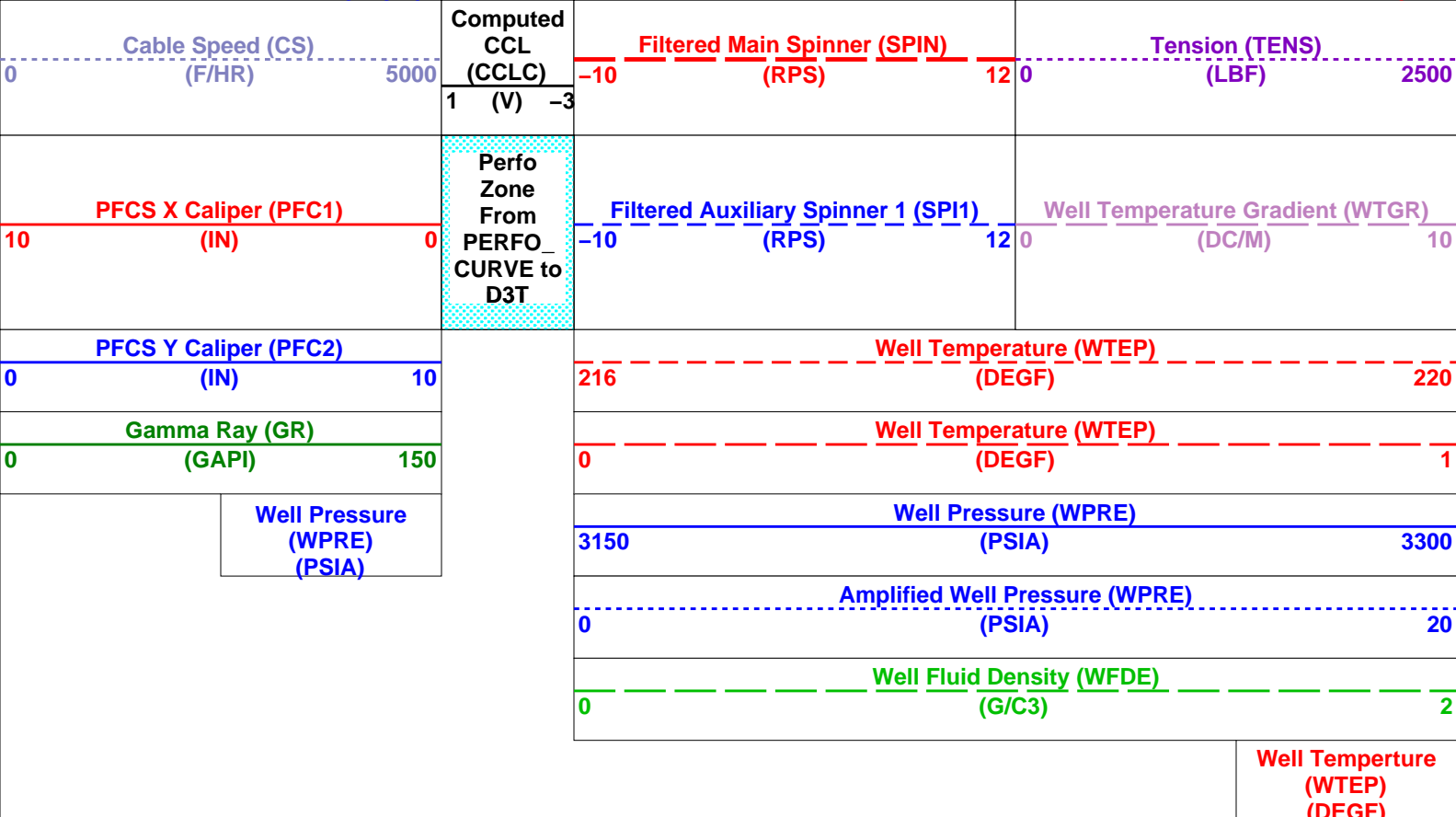
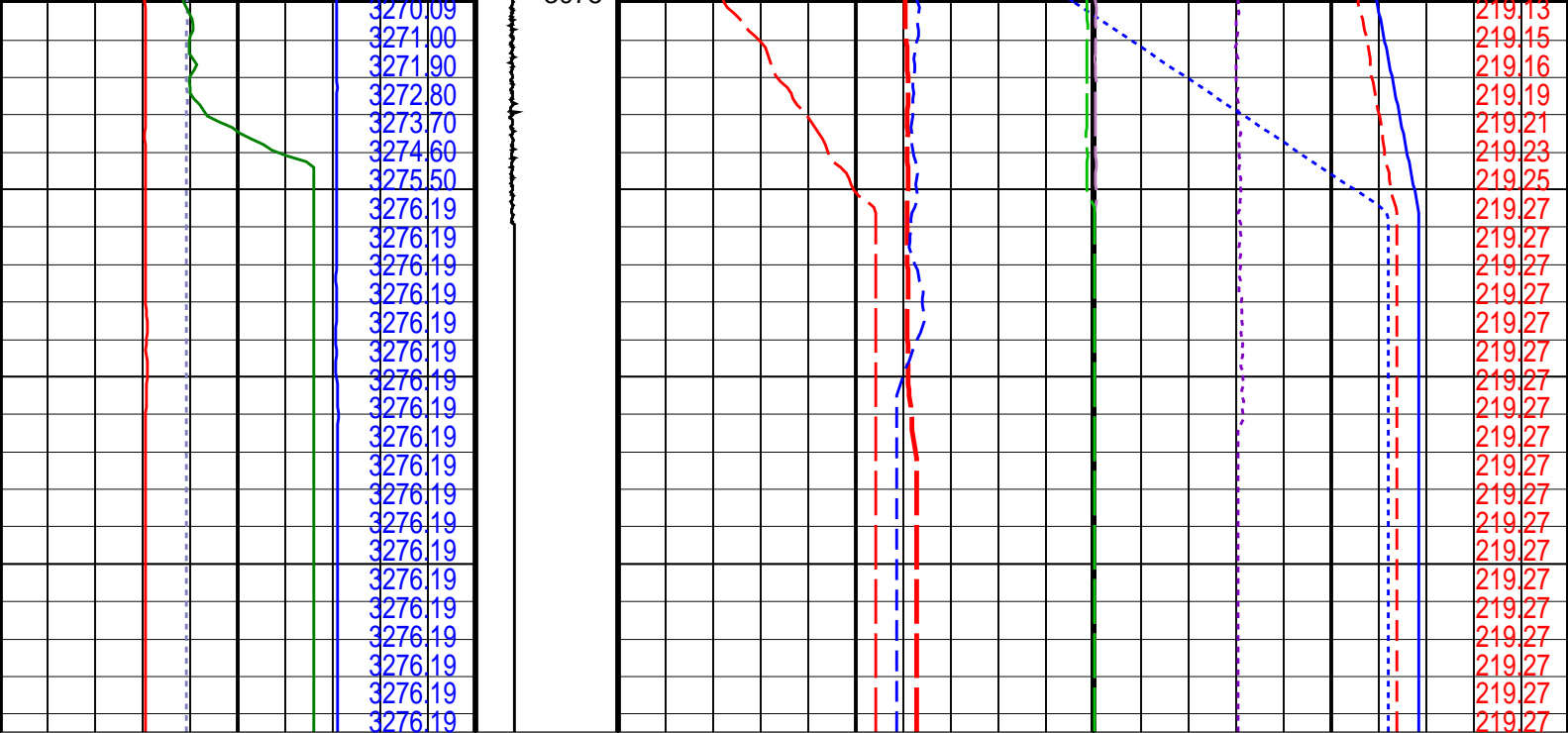
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_081PUP	FN:73	PRODUCER	29-Jul-2008 10:56	

Input DLIS Files						
DEFAULT	FLIP_FCS_ILS_DEFT_077		PRODUCER	29-Jul-2008 10:13	3094.5 M	2980.3 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_081PUP	FN:73	PRODUCER	29-Jul-2008 10:56	3094.5 M	2980.8 M
OP System Version: 15C0-309						
MCM						
PFCS-A	SRPC-3546-Q1_2008_OP15		PILS-A	SRPC-3546-Q1_2008_OP15		
DEFT-C2	SRPC-3546-Q1_2008_OP15		PGMC-A/B	SRPC-3546-Q1_2008_OP15		
PSPT-A/B	SRPC-3546-Q1_2008_OP15					

PIP SUMMARY					
Time Mark Every 60 S				Well Temperture (WTEP) (DEGF)	
				Well Fluid Density (WFDE) (G/C3)	
				Amplified Well Pressure (WPRE)	







Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 29-Jul-2008 10:56


OP System Version: 15C0-309
MCM

PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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	
GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
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	
PGMC-A/B: PSP Gradiomanometer Measurement Module			
GCPG	Gradio Surf.Cal Diff.Pres Gain	1	
GCPO	Gradio Surf.Cal Diff.Pres Offset	0	KPAA
PDSH	Gradio Correction Density Shift	0	G/C3
PSPT-A/B: Production Services Logging Platform			
GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
System and Miscellaneous			
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

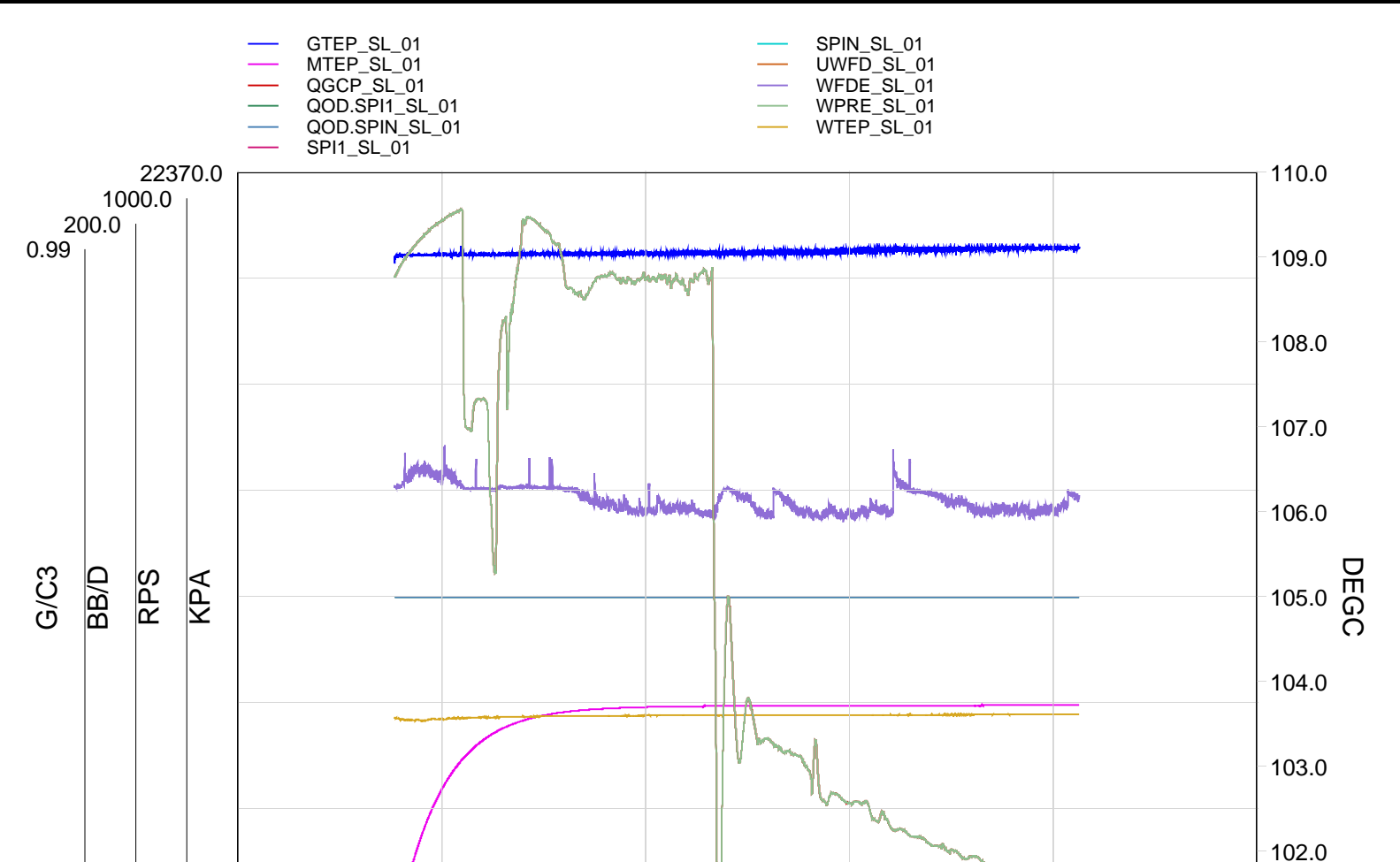
Input DLIS Files					
DEFAULT	FLIP_FCS_ILS_DEFT_077	PRODUCER	29-Jul-2008 10:13	3094.5 M	2980.3 M
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_081PUP	FN:73	PRODUCER	29-Jul-2008 10:56	

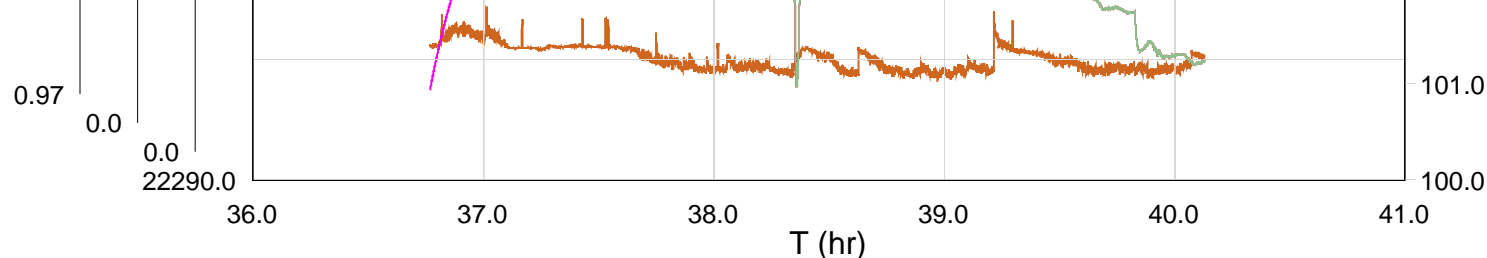


Station Log

Well Draw Down

MAXIS Field Log





TIME	SPIN	SPI1	WFDE	WTEP	WPRE
6390.0	0.0000	0.0000	0.9826	218.4361	3243.0686
6480.0	0.0000	0.0000	0.9826	218.4194	3243.1736
6570.0	0.0000	0.0000	0.9827	218.4096	3243.2891
6660.0	0.0000	0.0000	0.9829	218.4067	3243.3895
6750.0	0.0000	0.0000	0.9829	218.3874	3243.4791
6840.0	0.0000	0.0000	0.9829	218.3972	3243.5588
6930.0	0.0000	0.0000	0.9831	218.3843	3243.6399
7020.0	0.0000	0.0000	0.9830	218.3996	3243.7058
7110.0	0.0000	0.0000	0.9829	218.4228	3243.7637
7200.0	0.0000	0.0000	0.9829	218.4206	3243.8171
7290.0	0.0000	0.0000	0.9835	218.4121	3243.8607
7380.0	0.0000	0.0000	0.9828	218.4336	3243.9104
7470.0	0.0000	0.0000	0.9828	218.4367	3243.9397
7560.0	0.0000	0.0000	0.9827	218.4308	3243.9835
7650.0	0.0000	0.0000	0.9826	218.4366	3241.1478
7740.0	0.0000	0.0000	0.9825	218.4359	3240.9926
7830.0	0.0000	0.0000	0.9826	218.4451	3241.3527
7920.0	0.0000	0.0000	0.9826	218.4528	3241.3962
8010.0	0.0000	0.0000	0.9826	218.4530	3241.3893
8100.0	0.0000	0.0000	0.9825	218.4531	3240.0957
8190.0	0.0000	0.0000	0.9825	218.4581	3239.0268
8280.0	0.0000	0.0000	0.9826	218.4572	3242.2148
8370.0	0.0000	0.0000	0.9826	218.4588	3242.5064
8460.0	0.0000	0.0000	0.9826	218.4579	3242.5349
8550.0	0.0000	0.0000	0.9826	218.4620	3243.0156
8640.0	0.0000	0.0000	0.9826	218.4665	3243.4906
8730.0	0.0000	0.0000	0.9826	218.4668	3243.8411
8820.0	0.0000	0.0000	0.9826	218.4708	3243.8739
8910.0	0.0000	0.0000	0.9826	218.4704	3243.8185
9000.0	0.0000	0.0000	0.9826	218.4717	3243.7509
9090.0	0.0000	0.0000	0.9826	218.4755	3243.6847
9180.0	0.0000	0.0000	0.9826	218.4731	3243.5927
9270.0	0.0000	0.0000	0.9826	218.4792	3243.5063
9360.0	0.0000	0.0000	0.9826	218.4807	3243.3615
9450.0	0.0000	0.0000	0.9826	218.4793	3242.9255
9540.0	0.0000	0.0000	0.9826	218.4781	3242.9189
9630.0	0.0000	0.0000	0.9825	218.4783	3242.8497
9720.0	0.0000	0.0000	0.9824	218.4834	3242.8071
9810.0	0.0000	0.0000	0.9823	218.4788	3242.8255
9900.0	0.0000	0.0000	0.9822	218.4825	3242.9492
9990.0	0.0000	0.0000	0.9822	218.4825	3243.0630
10080.0	0.0000	0.0000	0.9822	218.4811	3243.0891
10170.0	0.0000	0.0000	0.9823	218.4833	3243.0777
10260.0	0.0000	0.0000	0.9822	218.4848	3243.1251
10350.0	0.0000	0.0000	0.9821	218.4869	3243.0320
10440.0	0.0000	0.0000	0.9821	218.4866	3243.0532
10530.0	0.0000	0.0000	0.9822	218.4895	3243.0597
10620.0	0.0000	0.0000	0.9819	218.4852	3242.9760

10620.0	0.0000	0.0000	0.9819	218.4832	3242.9760
10710.0	0.0000	0.0000	0.9820	218.4877	3243.0376
10800.0	0.0000	0.0000	0.9820	218.4894	3243.0957
10890.0	0.0000	0.0000	0.9820	218.4894	3243.0614
10980.0	0.0000	0.0000	0.9820	218.4913	3243.0681
11070.0	0.0000	0.0000	0.9824	218.4903	3243.0756
11160.0	0.0000	0.0000	0.9822	218.4958	3243.0491
11250.0	0.0000	0.0000	0.9821	218.4954	3243.0506
11340.0	0.0000	0.0000	0.9822	218.4928	3243.0199
11430.0	0.0000	0.0000	0.9820	218.4924	3243.0039
11520.0	0.0000	0.0000	0.9822	218.4899	3242.9660
11610.0	0.0000	0.0000	0.9820	218.4917	3242.8675
11700.0	0.0000	0.0000	0.9821	218.4938	3243.0251
11790.0	0.0000	0.0000	0.9820	218.4959	3243.0993
11880.0	0.0000	0.0000	0.9820	218.4928	3243.1746
11970.0	0.0000	0.0000	0.9819	218.4948	3243.0101
12060.0	0.0000	0.0000	0.9819	218.4927	3238.7490
12150.0	0.0000	0.0000	0.9824	218.4871	3234.0875
12240.0	0.0000	0.0000	0.9825	218.4931	3237.5228
12330.0	0.0000	0.0000	0.9825	218.4940	3238.5816
12420.0	0.0000	0.0000	0.9825	218.4951	3237.1543
12510.0	0.0000	0.0000	0.9824	218.4922	3236.4356
12600.0	0.0000	0.0000	0.9823	218.4959	3237.0788
12690.0	0.0000	0.0000	0.9823	218.4981	3237.2561
12780.0	0.0000	0.0000	0.9821	218.4955	3236.8984
12870.0	0.0000	0.0000	0.9820	218.4954	3236.7105
12960.0	0.0000	0.0000	0.9819	218.4960	3236.7570
13050.0	0.0000	0.0000	0.9819	218.4966	3236.7330
13140.0	0.0000	0.0000	0.9825	218.4985	3236.6734
13230.0	0.0000	0.0000	0.9824	218.4966	3236.6253
13320.0	0.0000	0.0000	0.9823	218.4969	3236.5717
13410.0	0.0000	0.0000	0.9822	218.4975	3236.5614
13500.0	0.0000	0.0000	0.9820	218.4994	3236.5416
13590.0	0.0000	0.0000	0.9820	218.4992	3236.5129
13680.0	0.0000	0.0000	0.9820	218.5004	3236.3715
13770.0	0.0000	0.0000	0.9819	218.4990	3236.2171
13860.0	0.0000	0.0000	0.9820	218.5000	3236.6961
13950.0	0.0000	0.0000	0.9819	218.5001	3235.9282
14040.0	0.0000	0.0000	0.9820	218.5011	3235.8504
14130.0	0.0000	0.0000	0.9821	218.5011	3236.0181
14220.0	0.0000	0.0000	0.9820	218.5001	3236.0048
14310.0	0.0000	0.0000	0.9819	218.5019	3235.9373
14400.0	0.0000	0.0000	0.9820	218.5019	3235.8823
14490.0	0.0000	0.0000	0.9819	218.5030	3235.8582
14580.0	0.0000	0.0000	0.9820	218.5035	3235.8955
14670.0	0.0000	0.0000	0.9821	218.5034	3235.8686
14760.0	0.0000	0.0000	0.9820	218.5011	3235.8890
14850.0	0.0000	0.0000	0.9821	218.5030	3235.6634
14940.0	0.0000	0.0000	0.9820	218.5023	3235.6282
15030.0	0.0000	0.0000	0.9821	218.5041	3235.7623
15120.0	0.0000	0.0000	0.9821	218.5020	3235.6412
15210.0	0.0000	0.0000	0.9820	218.5007	3235.5176
15300.0	0.0000	0.0000	0.9826	218.5062	3235.5173
15390.0	0.0000	0.0000	0.9826	218.5028	3235.5049
15480.0	0.0000	0.0000	0.9825	218.5046	3235.4535
15570.0	0.0000	0.0000	0.9825	218.5045	3235.4243
15660.0	0.0000	0.0000	0.9825	218.5053	3235.4130
15750.0	0.0000	0.0000	0.9825	218.5047	3235.3936
15840.0	0.0000	0.0000	0.9825	218.5040	3235.3337
15930.0	0.0000	0.0000	0.9824	218.5056	3235.2932
16020.0	0.0000	0.0000	0.9823	218.5059	3235.2896
16110.0	0.0000	0.0000	0.9823	218.5069	3235.2970

16110.0	0.0000	0.0000	0.9823	218.5065	3235.2157
16200.0	0.0000	0.0000	0.9821	218.5061	3235.2192
16380.0	0.0000	0.0000	0.9823	218.5064	3235.1863
16470.0	0.0000	0.0000	0.9823	218.5044	3235.1184
16560.0	0.0000	0.0000	0.9821	218.5065	3235.1370
16650.0	0.0000	0.0000	0.9822	218.5090	3235.1529
16740.0	0.0000	0.0000	0.9821	218.5090	3235.1195
16830.0	0.0000	0.0000	0.9820	218.5076	3235.0587
16920.0	0.0000	0.0000	0.9820	218.5077	3234.9587
17010.0	0.0000	0.0000	0.9821	218.5065	3234.9736
17100.0	0.0000	0.0000	0.9822	218.5097	3234.9719
17190.0	0.0000	0.0000	0.9819	218.5119	3234.9669
17280.0	0.0000	0.0000	0.9819	218.5093	3234.9328
17370.0	0.0000	0.0000	0.9821	218.5091	3234.9244
17460.0	0.0000	0.0000	0.9821	218.5083	3234.5204
17550.0	0.0000	0.0000	0.9822	218.5120	3234.4756
17640.0	0.0000	0.0000	0.9819	218.5115	3234.5688
17730.0	0.0000	0.0000	0.9820	218.5115	3234.4898
17820.0	0.0000	0.0000	0.9820	218.5113	3234.4254
17910.0	0.0000	0.0000	0.9821	218.5126	3234.3873
18000.0	0.0000	0.0000	0.9820	218.5131	3234.3918
18090.0	0.0000	0.0000	0.9821	218.5111	3234.4069
18180.0	0.0000	0.0000	0.9821	218.5116	3234.4139
18270.0	0.0000	0.0000	0.9821	218.5121	3234.3442
18360.0	0.0000	0.0000	0.9824	218.5135	3234.2898
18450.0	0.0000	0.0000	0.9824	218.5110	3234.3101



Spinners Multipass
Shut In

MAXIS Field Log

PLQL Passes Summary

Pass # 1: Src: PLQL_CS, Log: DOWN, Avg.CS: 10 M/MN

Pass # 2: Src: PLQL_CS, Log: UP , Avg.CS: 10 M/MN

Pass # 3: Src: PLQL_CS, Log: DOWN, Avg.CS: 5 M/MN

Pass # 4: Src: PLQL_CS, Log: UP , Avg.CS: 5 M/MN

Pass # 5: Src: PLQL_CS, Log: DOWN, Avg.CS: 20 M/MN

Pass # 6: Src: PLQL_CS, Log: UP , Avg.CS: 20 M/MN

Pass # 7: Src: PLQL_CS, Log: DOWN, Avg.CS: 30 M/MN

Pass # 8: Src: PLQL_CS, Log: UP , Avg.CS: 30 M/MN

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-11b

Output DLIS Files

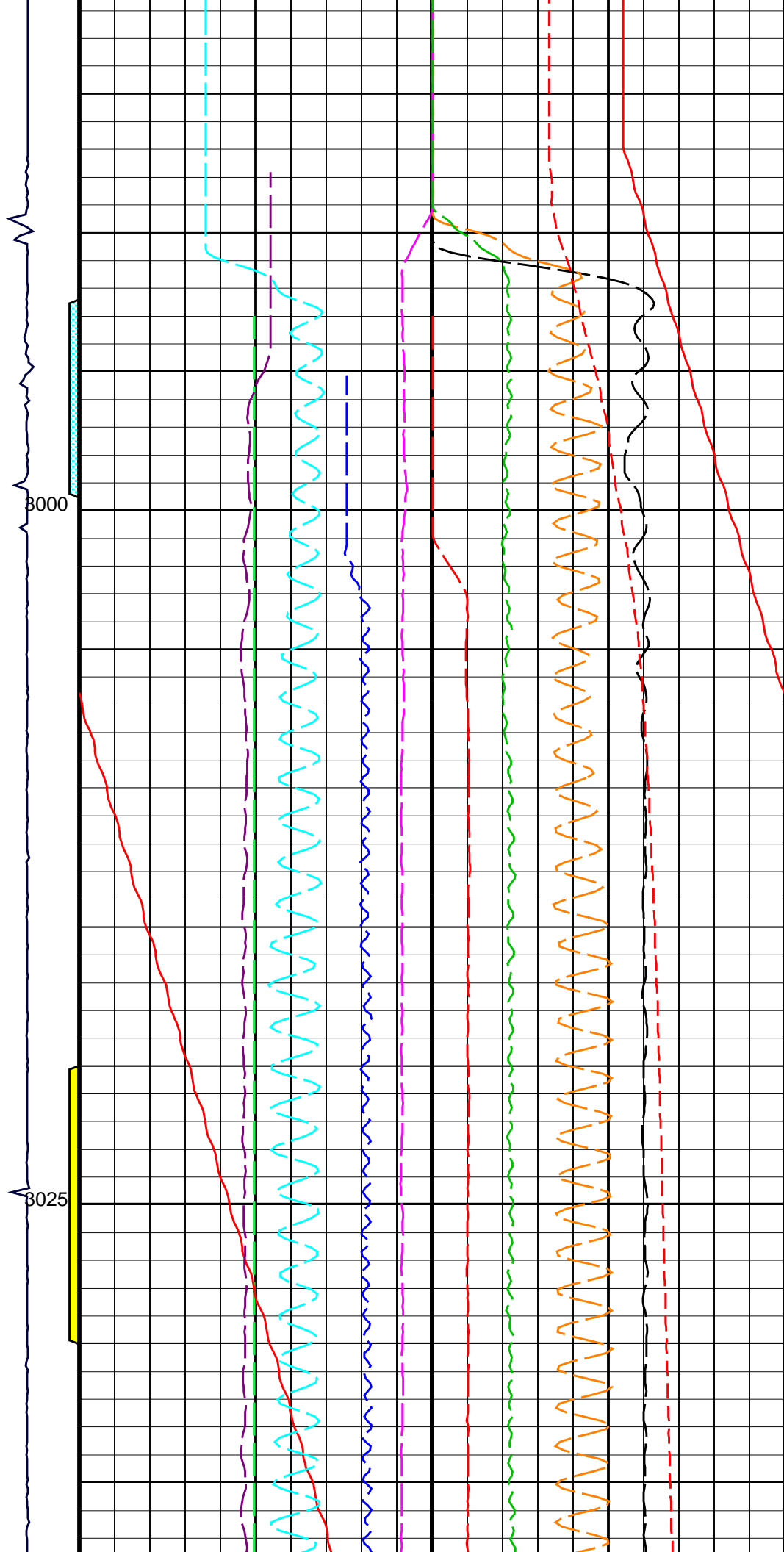
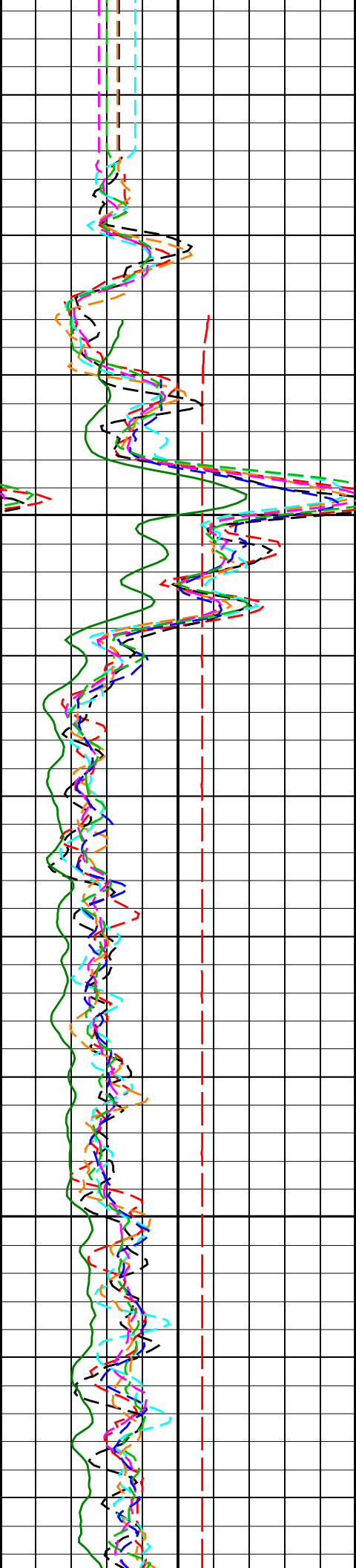
DEFAULT FCS_ILS_DEFT_GMS_050PUP FN:45 PRODUCER 27-Jul-2008 14:06 3105.6 M 2979.0 M

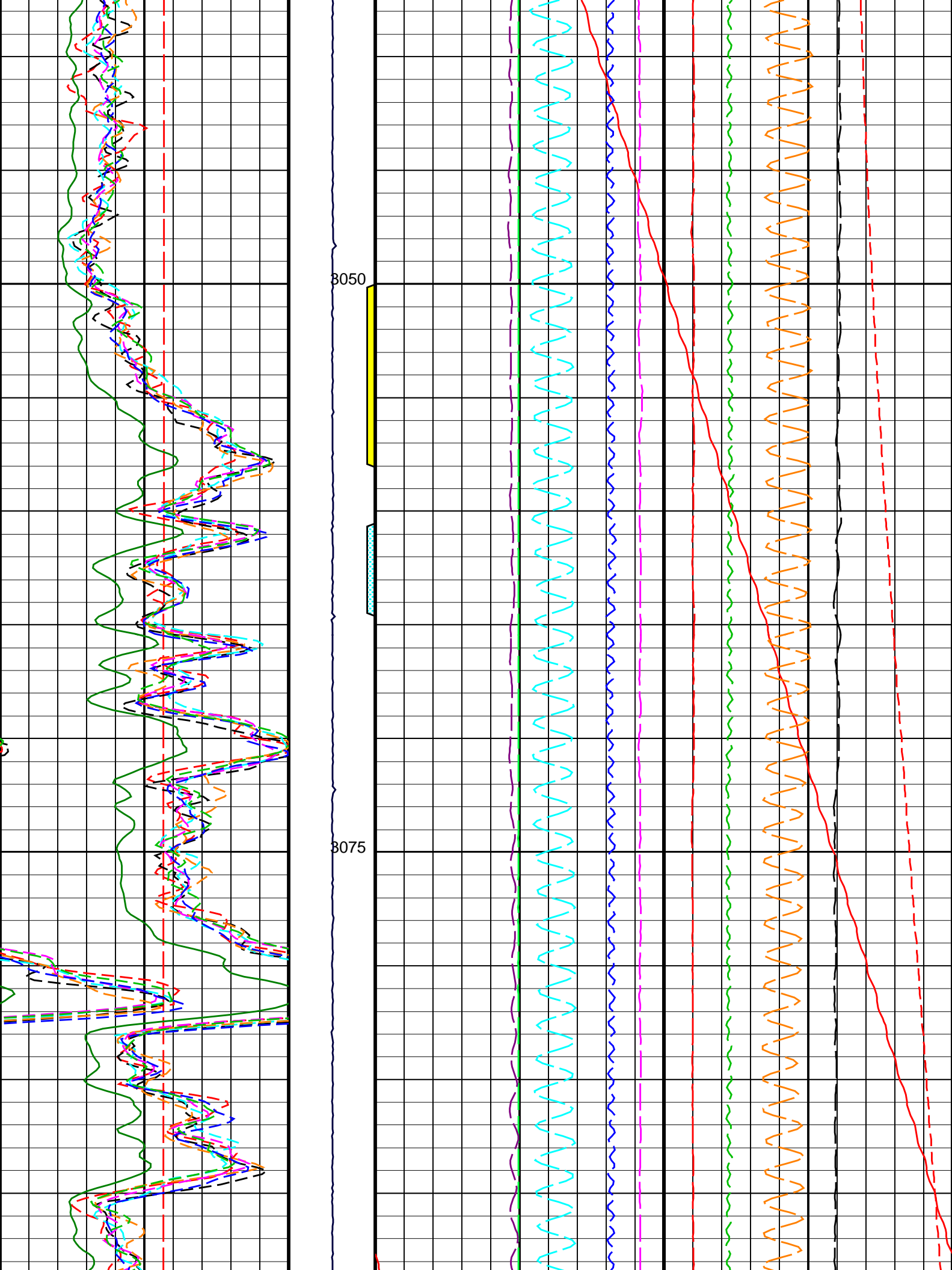
OP System Version: 15C0-309

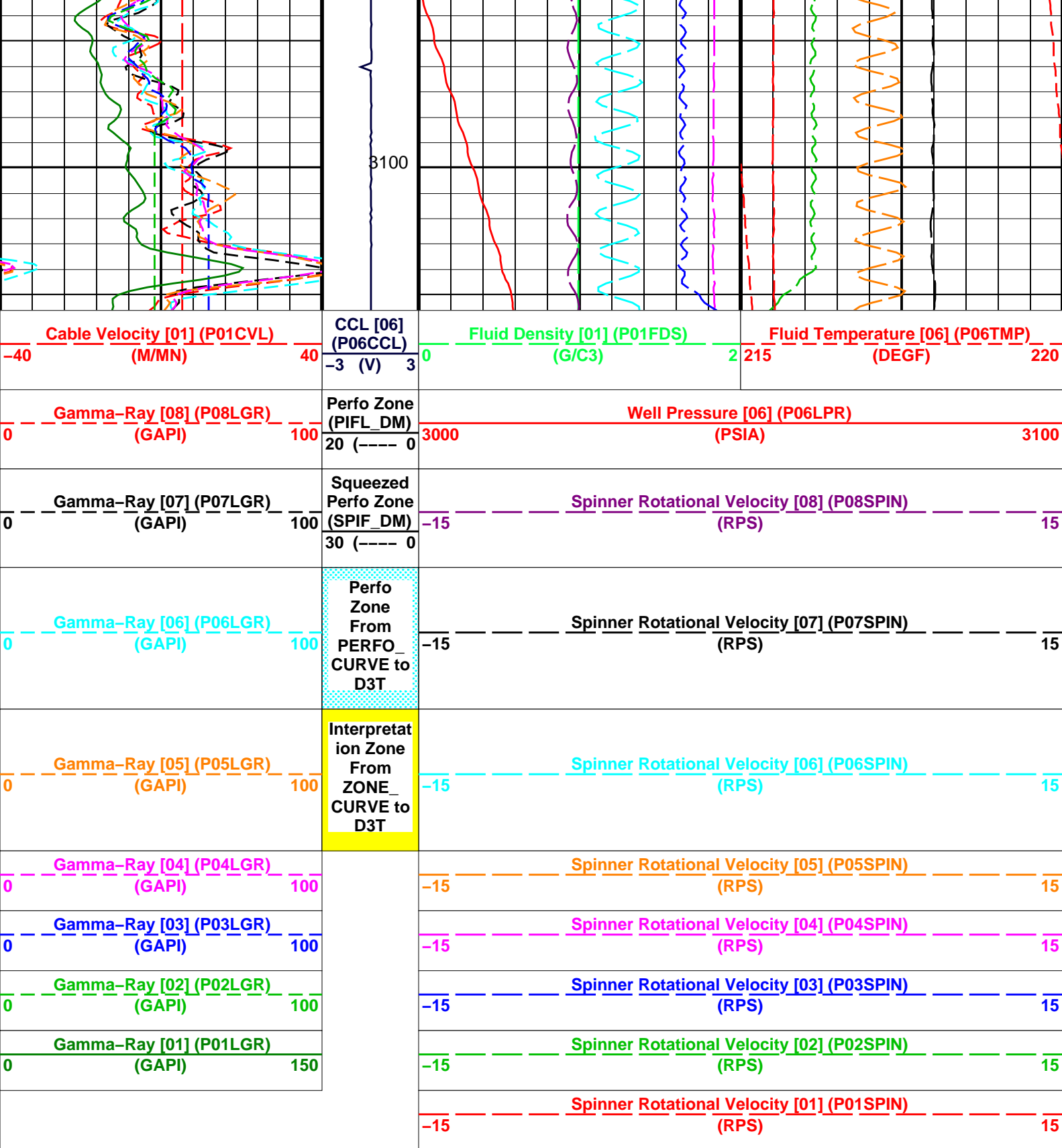
MCM

PFCS-A SRPC-3546-Q1_2008_OP15 PILS-A SRPC-3546-Q1_2008_OP15
DEFT-C2 SRPC-3546-Q1_2008_OP15 PGMC-A/B SRPC-3546-Q1_2008_OP15
PSPT-A/B SRPC-3546-Q1_2008_OP15

			<u>Spinner Rotational Velocity [01] (P01SPIN)</u>		
			(RPS)		
			-15		15
<u>Gamma-Ray [01] (P01LGR)</u>			<u>Spinner Rotational Velocity [02] (P02SPIN)</u>		
(GAPI)			(RPS)		
0		150	-15		15
<u>Gamma-Ray [02] (P02LGR)</u>			<u>Spinner Rotational Velocity [03] (P03SPIN)</u>		
(GAPI)			(RPS)		
0		100	-15		15
<u>Gamma-Ray [03] (P03LGR)</u>			<u>Spinner Rotational Velocity [04] (P04SPIN)</u>		
(GAPI)			(RPS)		
0		100	-15		15
<u>Gamma-Ray [04] (P04LGR)</u>			<u>Spinner Rotational Velocity [05] (P05SPIN)</u>		
(GAPI)			(RPS)		
0		100	-15		15
<u>Gamma-Ray [05] (P05LGR)</u>			<u>Spinner Rotational Velocity [06] (P06SPIN)</u>		
(GAPI)			(RPS)		
0		100	-15		15
<u>Gamma-Ray [06] (P06LGR)</u>			<u>Spinner Rotational Velocity [07] (P07SPIN)</u>		
(GAPI)			(RPS)		
0		100	-15		15
<u>Gamma-Ray [07] (P07LGR)</u>			<u>Spinner Rotational Velocity [08] (P08SPIN)</u>		
(GAPI)			(RPS)		
0		100	-15		15
<u>Gamma-Ray [08] (P08LGR)</u>			<u>Well Pressure [06] (P06LPR)</u>		
(GAPI)			(PSIA)		
0		100	3000		3100
<u>Cable Velocity [01] (P01CVL)</u>			<u>Fluid Density [01] (P01FDS)</u>		
(M/MN)			(G/C3)		
-40		40	0		220
			<u>Fluid Temperature [06] (P06TMP)</u>		
			(DEGF)		
			-3		220







Parameters			
DLIS Name		Description	
		Value	
CSID	PFCS-A: PSP Flow and caliper Tool		
	Casing Size I.D.	6.875	IN
CSID	DEFT-C2: DEFT_C Tool		
	Casing Size I.D.	6.875	IN
CSID	PGMC-A/B: PSP Gradiomanometer Measurement Module		
	Casing Size I.D.	6.875	IN
CSID	PSPT-A/B: Production Services Logging Platform		
	Casing Size I.D.	6.875	IN
CSID	BORDYN: BorDyn (Well Test Validation)		
	Casing Size I.D.	6.875	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
System and Miscellaneous		
DO	Depth Offset for Playback	0.1 M
PP	Playback Processing	NORMAL


Format: PLQLMultiPassWithInsert_1

Vertical Scale: 1:200

Graphics File Created: 27-Jul-2008 14:06

OP System Version: 15C0-309			
MCM			
PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

Output DLIS Files			
DEFAULT	FCS_ILS_DEFT_GMS_050PUP	FN:45	PRODUCER 27-Jul-2008 14:06



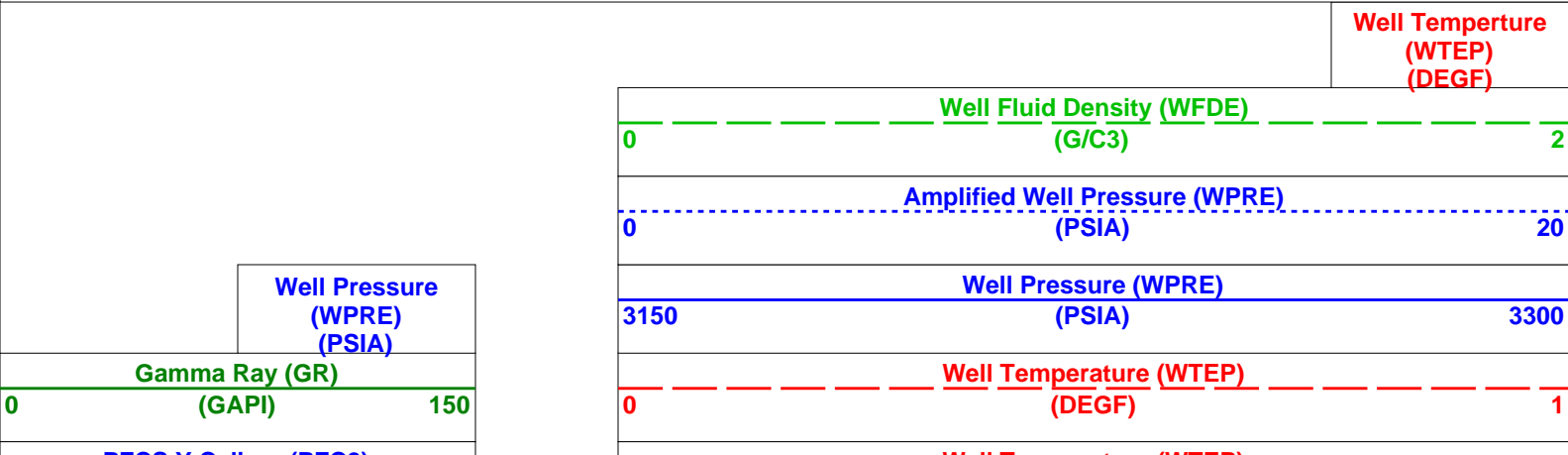
Correlation Pass

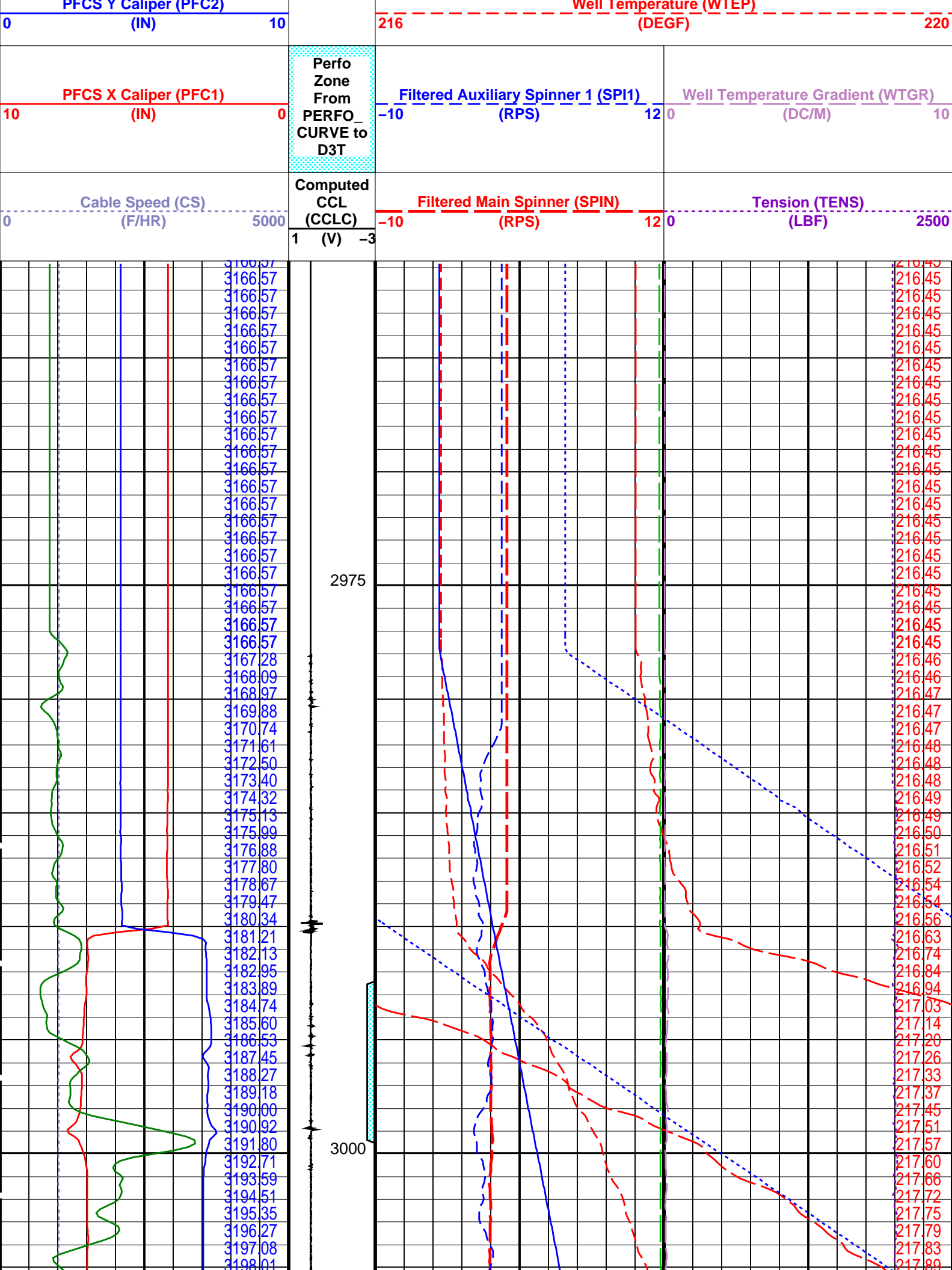
MAXIS Field Log

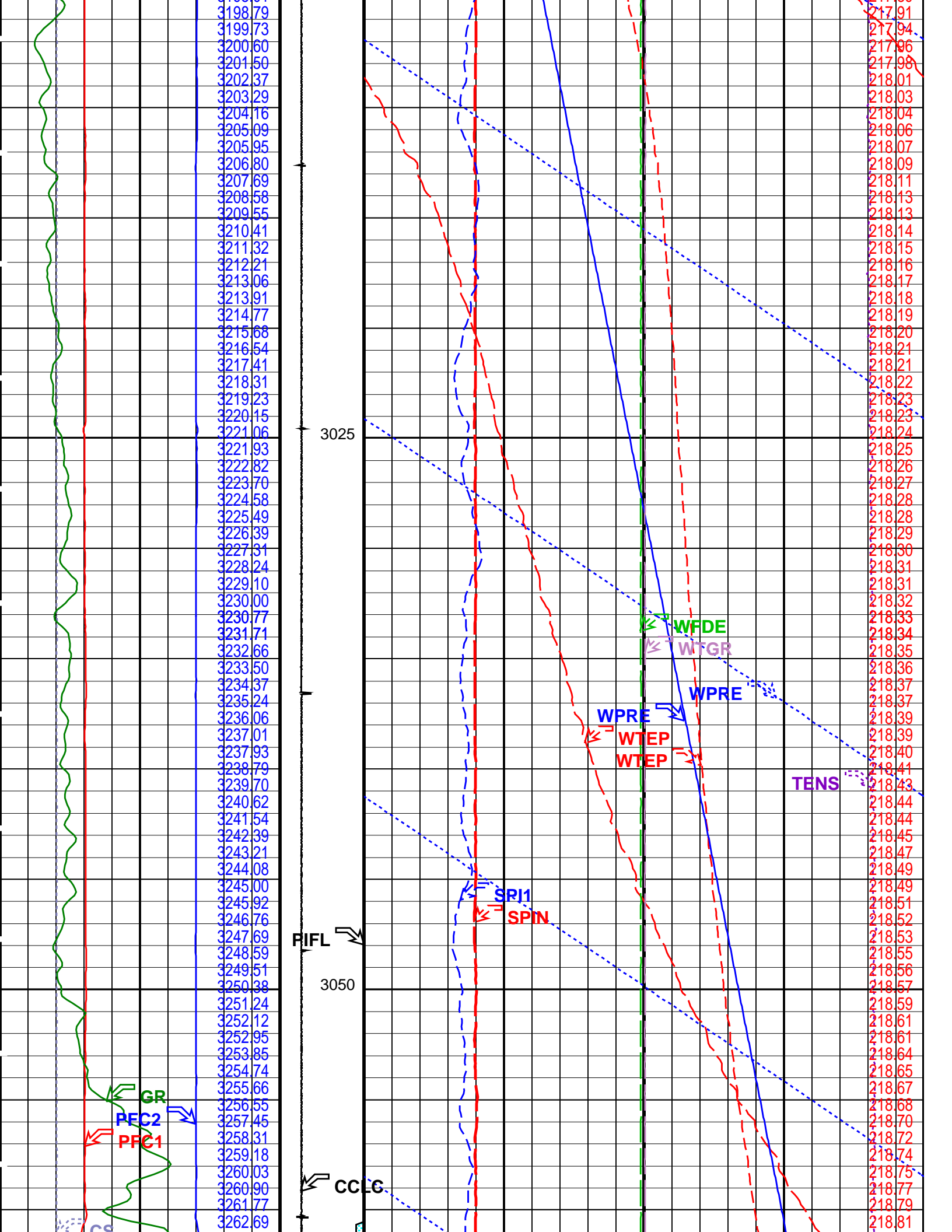
Input DLIS Files			
27-Jul-2008 13:36			
Output DLIS Files			
DEFAULT	FCS_ILS_DEFT_GMS_097PUP	FN:88	PRODUCER 29-Jul-2008 15:19 3123.3 M 2960.7 M
OP System Version: 15C0-309			
MCM			
PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	SRPC-3546-Q1_2008_OP15
PSPT-A/B	SRPC-3546-Q1_2008_OP15		

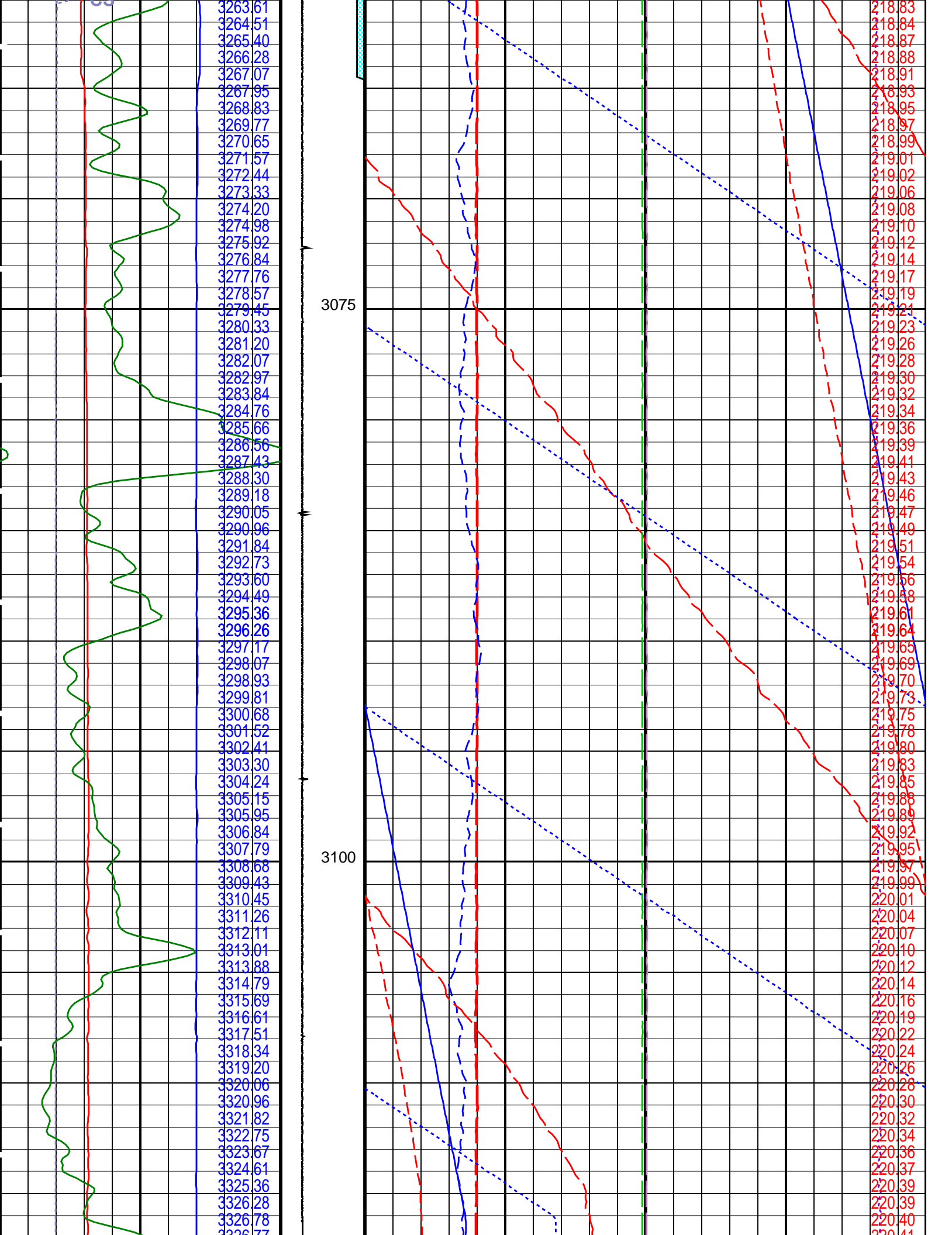
PIP SUMMARY

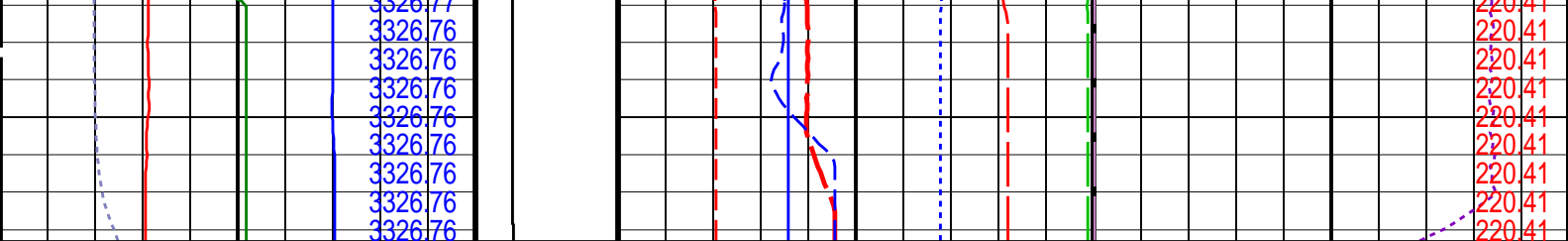
Time Mark Every 60 S











Cable Speed (CS) (F/HR)		0	5000	Computed CCL (CCLC) 1 (V) -3	Filtered Main Spinner (SPIN) (RPS)		-10	12	Tension (TENS) (LBF)		0	2500		
PFCS X Caliper (PFC1) (IN)		10	0		Filtered Auxiliary Spinner 1 (SPI1) (RPS)		-10	12	Well Temperature Gradient (WTGR) (DC/M)		0	10		
PFCS Y Caliper (PFC2) (IN)		0	10		Well Temperature (WTEP) (DEGF)								216	220
Gamma Ray (GR) (GAPI)		0	150		Well Temperature (WTEP) (DEGF)								0	1
Well Pressure (WPRE) (PSIA)					Well Pressure (WPRE) (PSIA)								3150	3300
				Amplified Well Pressure (WPRE) (PSIA)								0	20	
				Well Fluid Density (WFDE) (G/C3)								0	2	
										Well Temperature (WTEP) (DEGE)				

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 29-Jul-2008 15:19

OP System Version: 15C0-309			
MCM			
PFCS-A	SRPC-3546-Q1_2008_OP15	PILS-A	SRPC-3546-Q1_2008_OP15
DEFT-C2	SRPC-3546-Q1_2008_OP15	PGMC-A/B	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	
GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
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	
PGMC-A/B: PSP Gradiomanometer Measurement Module			
GCPG	Gradio Surf.Cal Diff.Pres Gain	1	
GCPO	Gradio Surf.Cal Diff.Pres Offset	0	KPAA
PDSH	Gradio Correction Density Shift	0	G/C3
PSPT-A/B: Production Services Logging Platform			
GDEV	Average Angular Deviation of Borehole from Normal	33	DEG
System and Miscellaneous			
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files

27-Jul-2008 13:36

Output DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_097PUP

FN:88

PRODUCER

29-Jul-2008 15:19

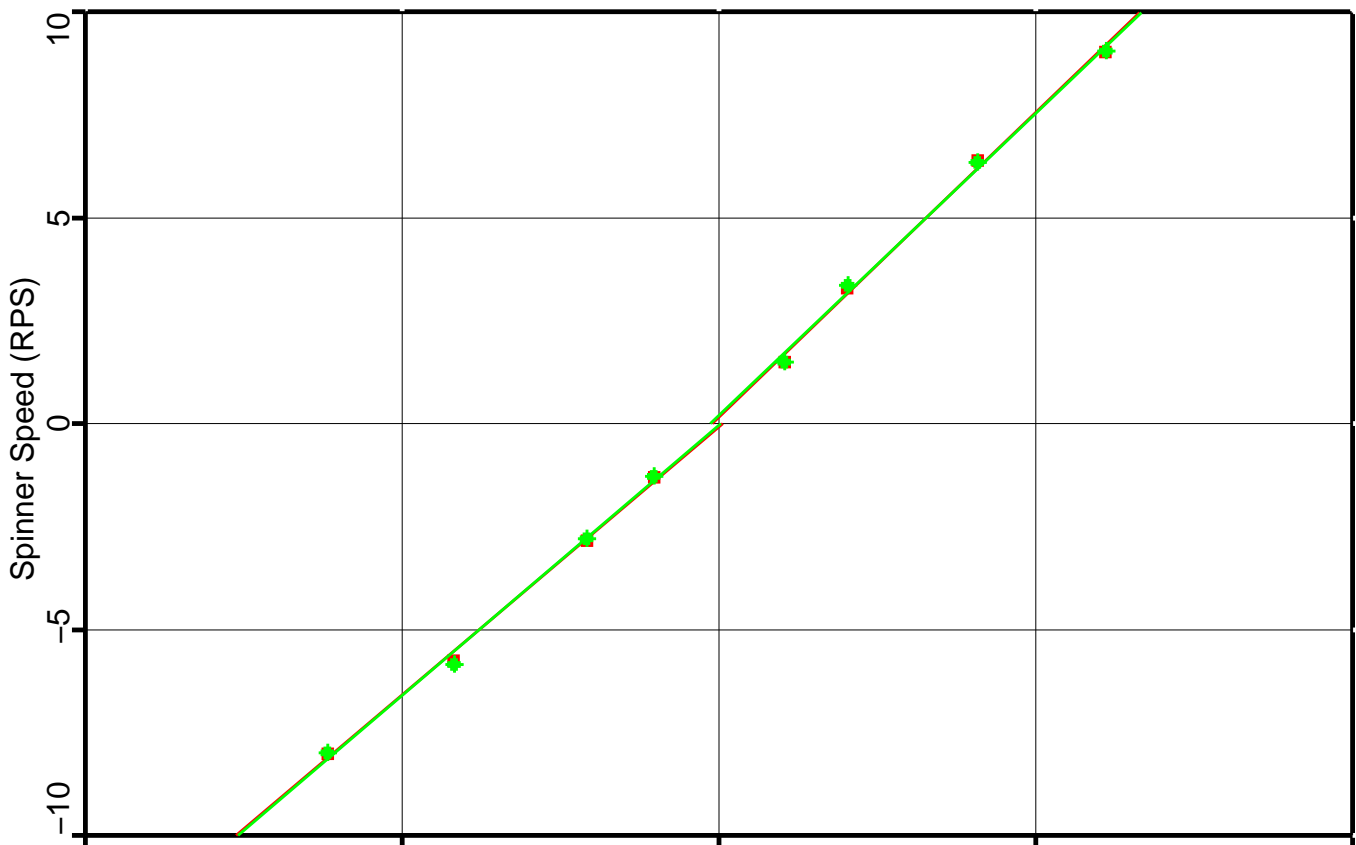
Schlumberger

Spinner Calibration

MAXIS Field Log

Production Logging Quicklook Spinner Calibration

	Zone Depth (M)	Fluid Vel. (M/MN)	Positive Spinner			Negative Spinner		
			Slope (RSMM)	Intercept (M/MN)	Correl.	Slope (RSMM)	Intercept (M/MN)	Correl.
■	Zone 1 3030.0 – 3020.0 :	1.\$	0.2961	–0.5	0.998	0.261	0.3	0.999
◆	Zone 2 3058.0 – 3050.0 :	–1.\$	0.2944	–0.7	0.998	0.2629	0.2	0.998



-50

-25

0

25

50

Cable Velocity (M/MN)

Schlumberger

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: 26-Jul-2008 9:44

PFCS CaliperX Small Ring	5.500	N/A	5.308	N/A	N/A	N/A	IN
PFCS CaliperX Large Ring	8.000	N/A	8.035	N/A	N/A	N/A	IN
PFCS CaliperY Small Ring	5.500	N/A	5.611	N/A	N/A	N/A	IN
PFCS CaliperY Large Ring	8.000	N/A	8.262	N/A	N/A	N/A	IN

DEFT_C Tool Wellsite Calibration – DEFT_C2 Caliper Calibration

Before: 26-Jul-2008 9:49

DEFT-C2 Caliper Small Ring	5.500	N/A	5.390	N/A	N/A	N/A	IN
DEFT-C2 Caliper Large Ring	8.000	N/A	7.955	N/A	N/A	N/A	IN

Production Services Logging Platform Wellsite Calibration – Detector Calibration

Before: 26-Jul-2008 10:05

Gamma-Ray Jig-Bkg	125.0	N/A	117.2	N/A	N/A	N/A	GAPI
-------------------	-------	-----	-------	-----	-----	-----	------

PSP Flow and caliper Tool / Equipment Identification

Primary Equipment:





PFCS Cartridge	PFCC – A	799
PFCS Caliper	Cali –	799
PFCS Relative Bearing	Rela –	799
PFCS 3.5 Spinner Diameter	Spin –	799
PFCS Fluid Holdup Electric Probes	Hold –	799

Auxiliary Equipment:

PFCS Cartridge Housing	PFCH – A	799
------------------------	----------	-----

PSP Flow and caliper Tool Wellsite Calibration

PFCS Caliper Calibration

PFCS Caliper Calibration											
Phase	PFCS CaliperX Small Ring IN		Value	Phase	PFCS CaliperX Large Ring IN		Value	Phase	PFCS CaliperY Small Ring IN		Value
Before			5.308	Before			8.035	Before			5.611
	N/A (Minimum)	5.500 (Nominal)	N/A (Maximum)		N/A (Minimum)	8.000 (Nominal)	N/A (Maximum)		N/A (Minimum)	5.500 (Nominal)	N/A (Maximum)
Phase	PFCS CaliperY Large Ring IN		Value								
Before			8.262								
	N/A (Minimum)	8.000 (Nominal)	N/A (Maximum)								
Before: 26-Jul-2008 9:44											

DEFT_C Tool / Equipment Identification

Primary Equipment:

DEFTC Cartridge	DECC – C	716
-----------------	----------	-----

DEFT_C Cartridge
DEFT_C Caliper
DEFT_C2 Relative Bearing
DEFT_C Flowmeter probes

DEFT_C2
Cali - 716
Rela - 716
Flow - 716



Auxiliary Equipment:

DEFTC Cartridge Housing

DFCH - C 716

DEFT_C Tool Wellsite Calibration

DEFT_C2 Caliper Calibration

Phase	DEFT-C2 Caliper Small Ring IN	Value	Phase	DEFT-C2 Caliper Large Ring IN	Value
Before		5.390	Before		7.955
	N/A (Minimum) 5.500 (Nominal) N/A (Maximum)			N/A (Minimum) 8.000 (Nominal) N/A (Maximum)	

Before: 26-Jul-2008 9:49

Production Services Logging Platform / Equipment Identification



Primary Equipment:

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

Auxiliary Equipment:

Production Services Logging Platform Wellsite Calibration

Detector Calibration

Phase	Gamma-Ray Background GAPI	Value	Phase	Gamma-Ray Jig-Bkg GAPI	Value
Before		20.19	Before		117.2
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			110.0 (Minimum) 125.0 (Nominal) 140.0 (Maximum)	

Before: 26-Jul-2008 10:05

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **A-11b**

Field: **Mackerel**

Rig : **Prod4 / Crane**

Country: **Australia**

Dual Deft / Spinner

GR-PLT-Gradic

Survey