

Company: Esso Australia Pty Ltd.

Well: A3A
Field: Halibut
Rig: Crane/Prod 4

Country: Australia

Gamma Ray / Pressure / Temperature
Dual DEFT / Inline and Fullbore
Spinner Survey

Crane/Prod 4
Halibut
Gippsland
A3A
Esso Australia Pty Ltd.

LOCATION		
Gippsland	Elev.:	K.B. 29.45 m
Basin		G.L. -73.00 m
Bass Strait		D.F. 29.45 m
Permanent Datum:	Mean Sea Level	
Log Measured From:	K.B.	
Drilling Measured From:	K.B.	
State: Victoria	Max. Well Deviation 54 deg	Longitude 148°19'07.62"E
		Latitude 38°24'20.36"S

	Run 1
Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	54 deg
CEMENTING DATA	
Primary/Squeeze	Primary
Casing String No	
Lead Cement Type	
Volume	
Density	
Water Loss	
Additives	
Tail Cement Type	
Volume	
Density	
Water Loss	
Additives	
Expected Cement Top	
Logging Date	
Run Number	
Depth Driller	
Schlumberger Depth	
Bottom Log Interval	
Top Log Interval	
Casing Fluid Type	
Salinity	
Density	
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	
From	
To	
Casing/Tubing Size	
Weight	
Grade	
From	
To	
Maximum Recorded Temperatures	
Logger On Bottom	
Unit Number	
Recorded By	
Witnessed By	

Logging Date	17-Jan-2009
Run Number	1 & 2
Depth Driller	2999 m
Schlumberger Depth	2998 m
Bottom Log Interval	2998 m
Top Log Interval	2945 m
Casing Fluid Type	Production fluids
Salinity	
Density	0.79 g/cm3
Fluid Level	13 m
BIT/CASING/TUBING STRING	
Bit Size	6.000 in
From	2194 m
To	3109 m
Casing/Tubing Size	4.500 in
Weight	12.6 lbm/ft
Grade	L-80
From	2050.12 m
To	3103.82 m
Maximum Recorded Temperatures	226 degF
Logger On Bottom	17-Jan-2009
Unit Number	889
Recorded By	B.White
Witnessed By	S.Gilbert, B.Donahoe

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

DEPTH SUMMARY LISTING

Date Created: 6-JAN-2009 10:47:30

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-EB	Type:	PSDS/OSDS	Type:	2-32ZT
Serial Number:	6373	Serial Number:	325337	Serial Number:	207308
Calibration Date:	2-Dec-2008	Calibration Date:	11-Dec-2008	Length:	6400 M
Calibrator Serial Number:	30	Calibrator Serial Number:	1174	Conveyance Method: Wireline Rig Type: Offshore Fixed	
Calibration Cable Type:	2-32ZT	Number of Calibration Points:	0		
Wheel Correction 1:	-1				
Wheel Correction 2:	-2				

Depth Control Parameters

Log Sequence: Subsequent Log In the Well

Reference Log Name:

Reference Log Run Number:

Reference Log Date:

Depth Control Remarks

1. IDW-EB 6373 Used as primary depth control.
2. Z-Chart used as backup.
3. Log correlated on depth over zone of interest.
- 4.
- 5.
- 6.

DISCLAIMER

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OTHER SERVICES1

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

Log correlated to ExxonMobil Petrophysical Log Dated May 06.

Maximum Well deviation = 54 deg @ 3097m MDKB .

Objectives: Conduct a Static and Flowing Survey over the interval HUD(2999m) to 2945m MDKB .

Making 6 Passes (3 up , 3 down) while shut in and Flowing . Take Station Logs while POOH at required Depths .

HUD:2998m MDKB

SBHP: 3234 psai SBHT: 226 degf @ 2994m MDKB

Unable to do Flowing Surveys on first run due to problems with the gas lift configuration .

Schlumberger Crew : J Light , R Murry , J Annear , A Mclellan

RUN 1	
SERVICE ORDER #:	AXWT-00097
PROGRAM VERSION:	16C0-147
FLUID LEVEL:	13 m

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

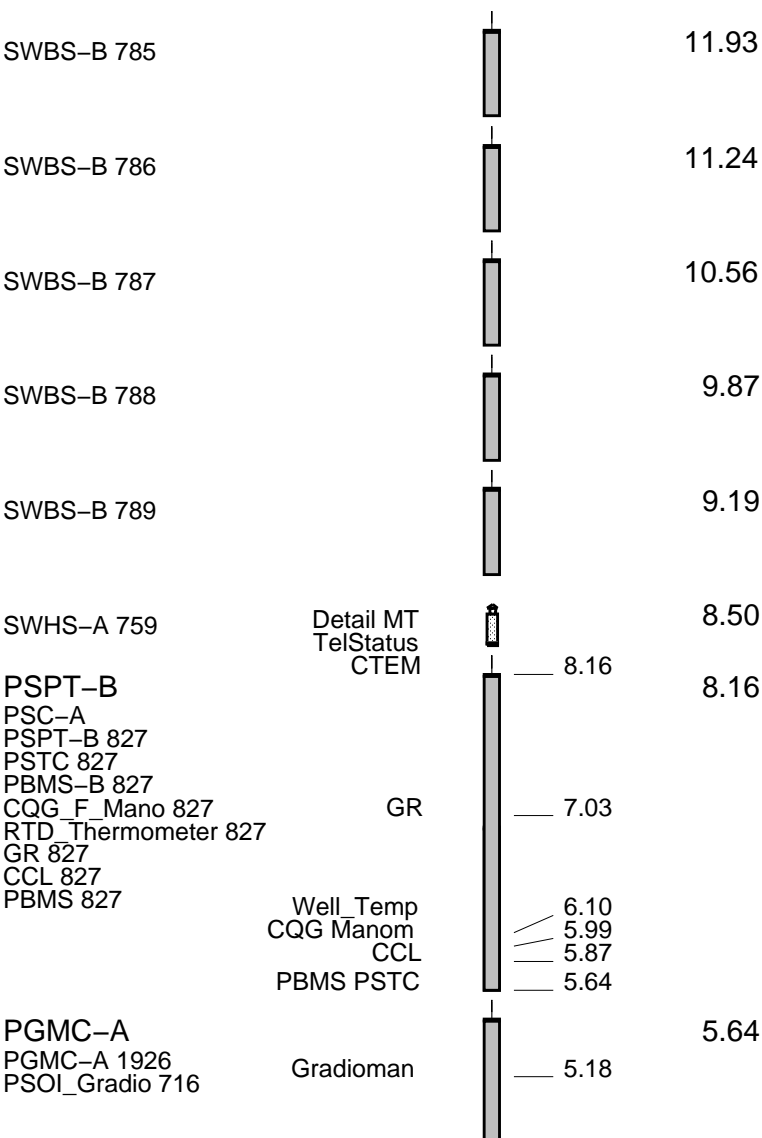
RUN 1

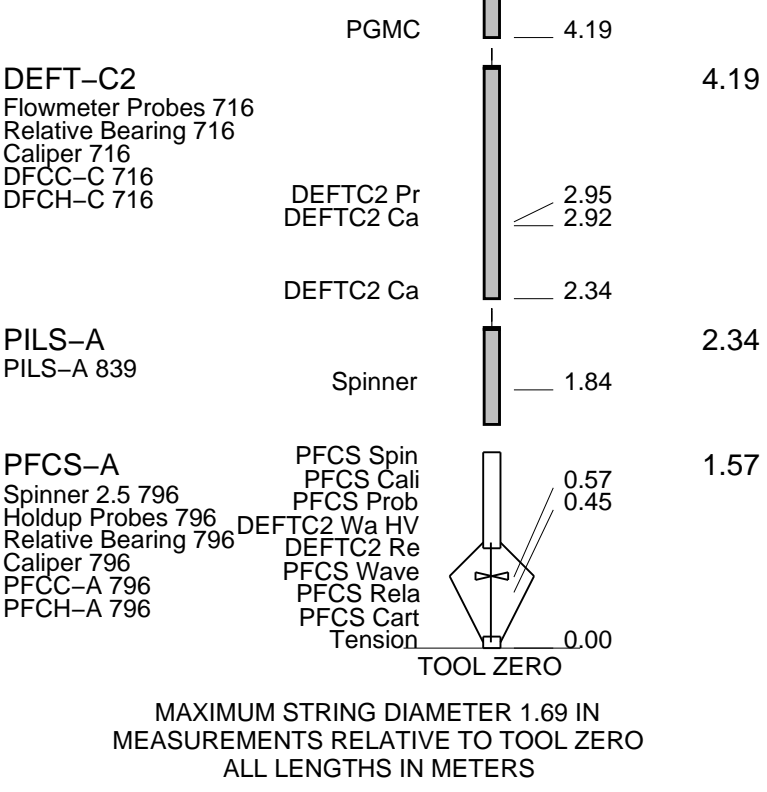
RUN 2

SURFACE EQUIPMENT

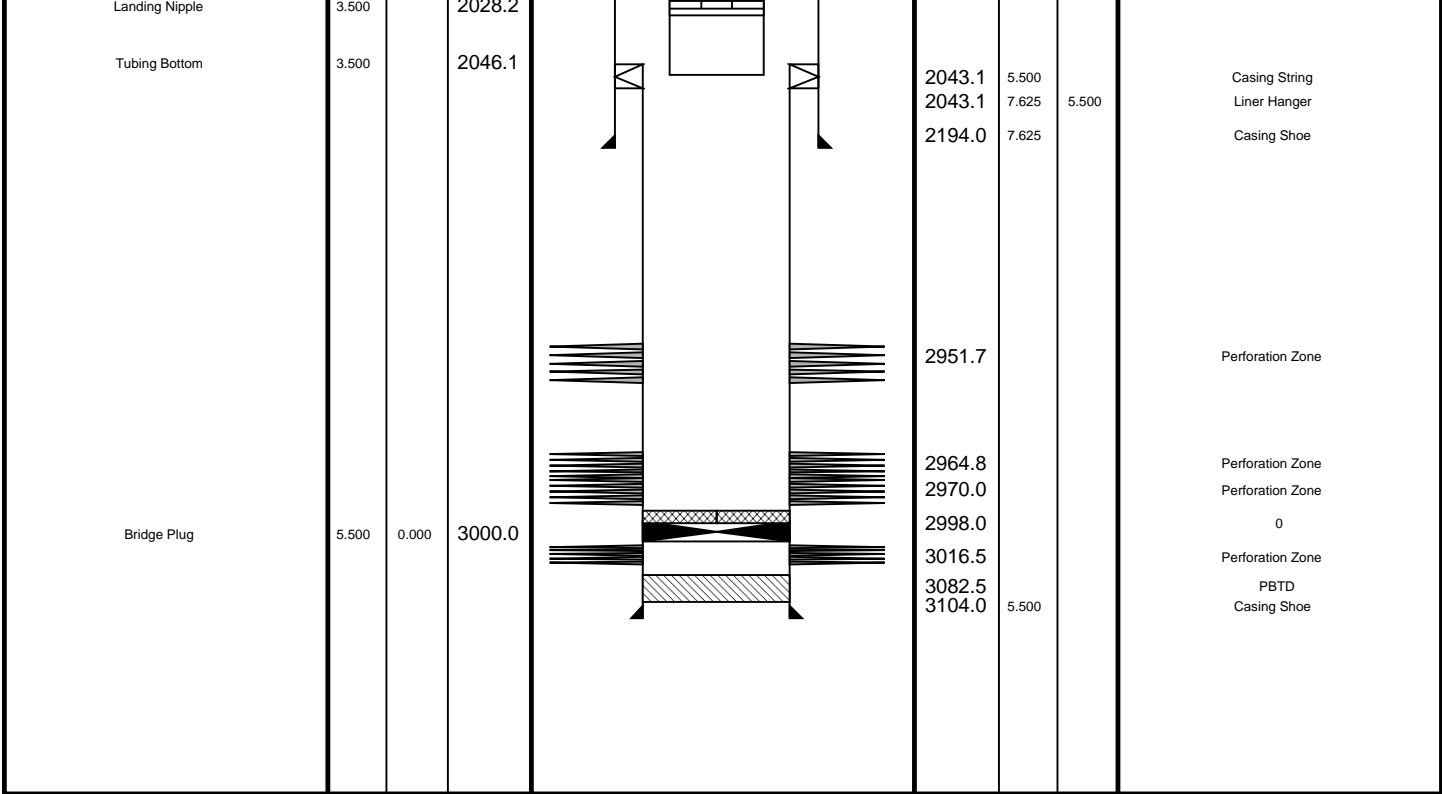
WITM-A
PSC 16MHZ 827

DOWNHOLE EQUIPMENT





Production String	(in)		(m)	Well Schematic	(m)		(in)		Casing String
	OD	ID	MD		MD	OD	ID		
Tubing Tubing Hanger	3.500 6.750	3.500	12.0 12.0		11.7 11.9	7.625 10.750		Casing String Casing String	
SSSV	3.500		133.2						
Side Pocket Mandrel	3.500		724.4		533.1	10.750		Casing Shoe	
Side Pocket Mandrel	3.500		1217.2						
Side Pocket Mandrel	3.500		1429.5						
Landing Nipple	3.500		1994.2						
Packer	7.625	3.500	2011.0						
			2022.0						
			2033.0						



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Log Pass (down)	17-Jan-2009 8:36	000:12	2912.1 - 3003.2	FCS_ILS_DEFT_GMS_025LDP
Log Pass (up)	17-Jan-2009 8:48	000:08	3003.2 - 2915.7	FCS_ILS_DEFT_GMS_026LUP
Log Pass (down)	17-Jan-2009 9:00	000:17	2912.4 - 2999.2	FCS_ILS_DEFT_GMS_028LDP
Log Pass (up)	17-Jan-2009 9:17	000:17	2999.2 - 2914.3	FCS_ILS_DEFT_GMS_029LUP
Log Pass (down)	17-Jan-2009 9:34	000:04	2913.6 - 2999.7	FCS_ILS_DEFT_GMS_030LDP
Log Pass (up)	17-Jan-2009 9:38	000:04	2999.5 - 2914.2	FCS_ILS_DEFT_GMS_031LUP
Log Pass (down)	17-Jan-2009 9:43	000:03	2914.2 - 2999.1	FCS_ILS_DEFT_GMS_032LDP
Log Pass (up)	17-Jan-2009 9:46	000:03	2999.2 - 2912.8	FCS_ILS_DEFT_GMS_033LUP
Station Log	17-Jan-2009 10:11	006:51	2925.0	FCS_ILS_DEFT_GMS_048LTP
Log Pass (down)	19-Jan-2009 10:31	000:07	2920.9 - 2995.3	FCS_ILS_DEFT_GMS_065LDP
Log Pass (up)	19-Jan-2009 10:38	000:07	2995.4 - 2921.5	FCS_ILS_DEFT_GMS_066LUP
Station Log	19-Jan-2009 11:16	003:13	2931.0	FCS_ILS_DEFT_GMS_070LTP



Flowing Pass Up
@ 10m/min

MAXIS Field Log

Input DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_066LUP FN:60 PRODUCER 19-Jan-2009 10:38 2995.4 M 2921.5 M

Output DLIS Files

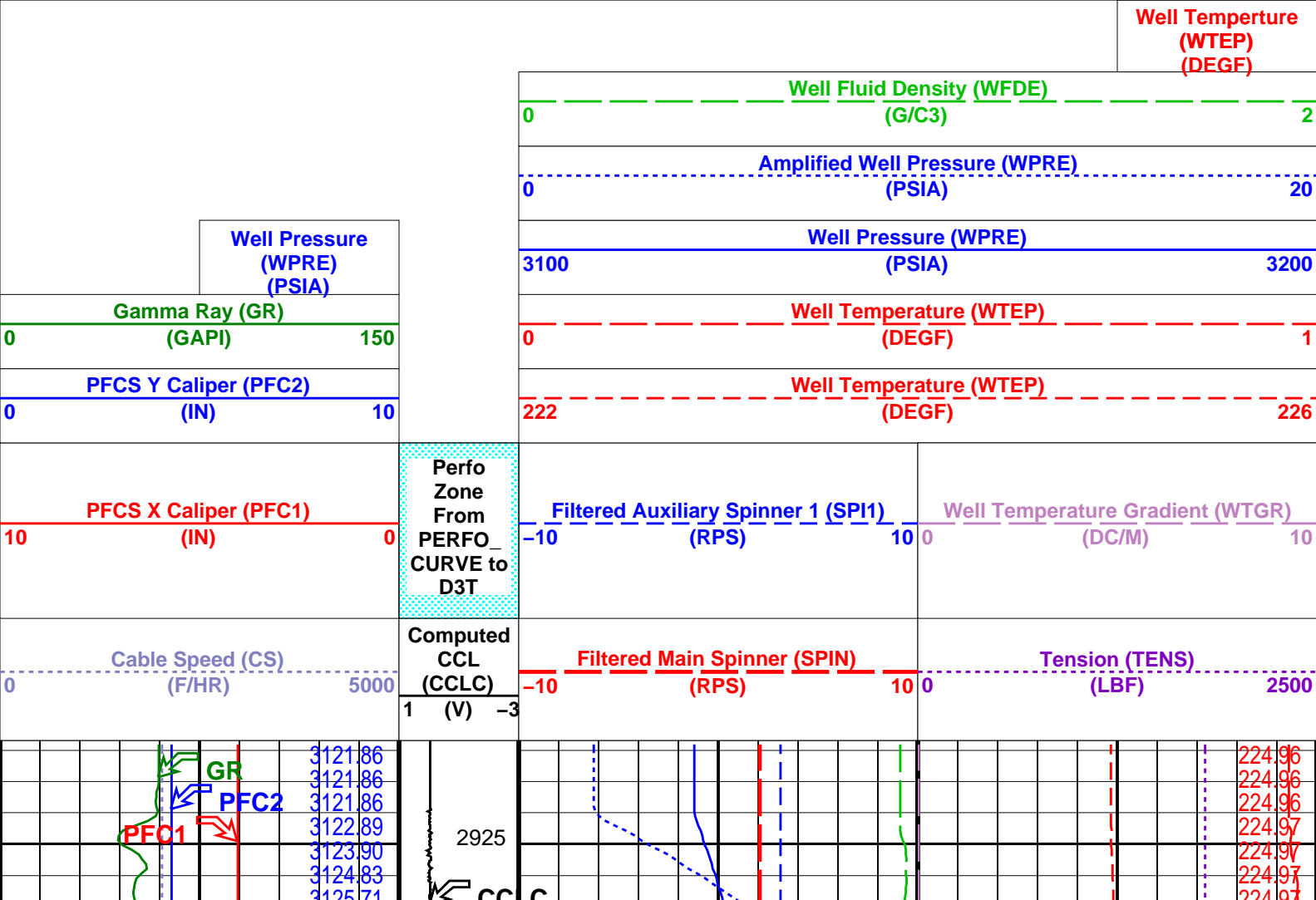
DEFAULT FCS_ILS_DEFT_GMS_073PUP FN:66 PRODUCER 19-Jan-2009 14:37 2995.6 M 2921.7 M

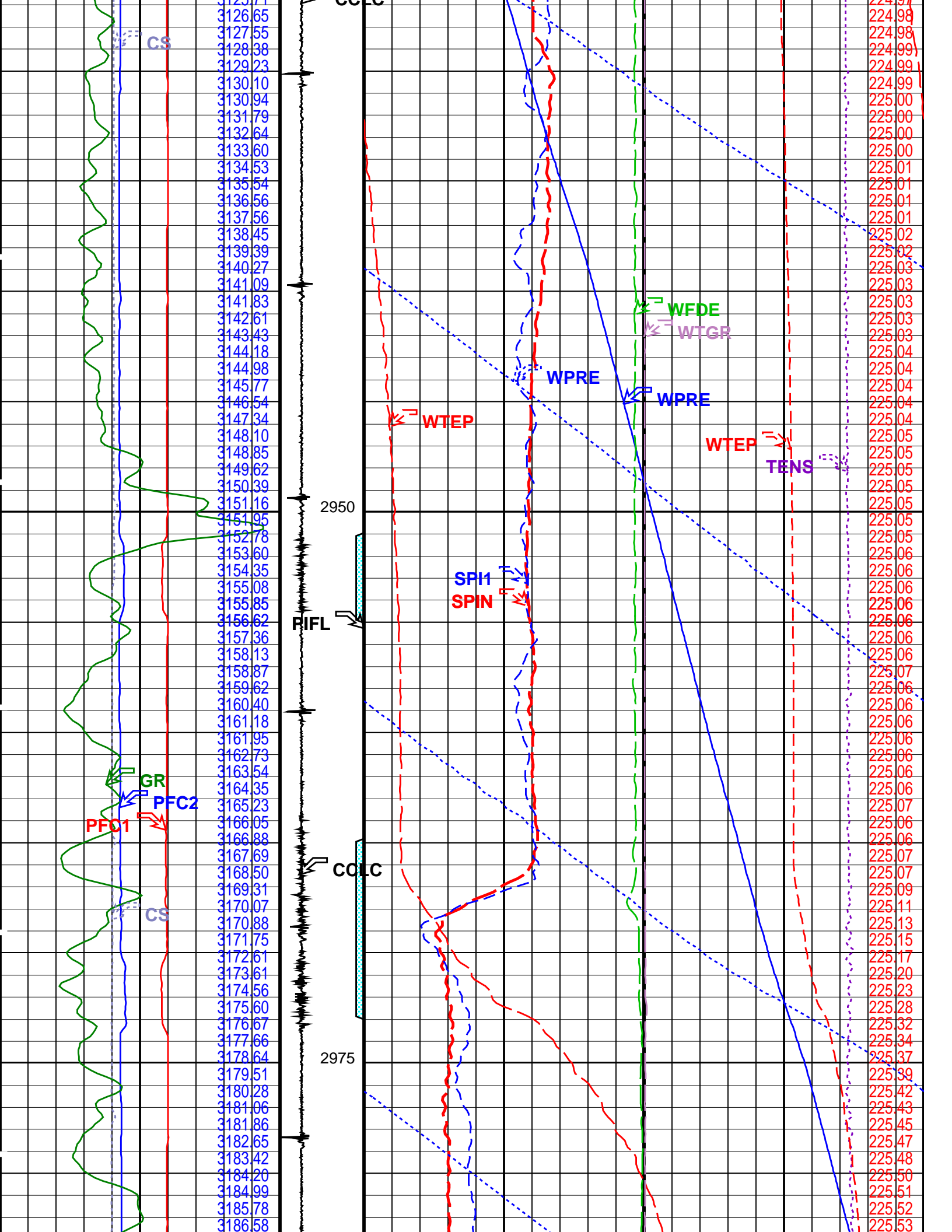
OP System Version: 16C0-147
MCM

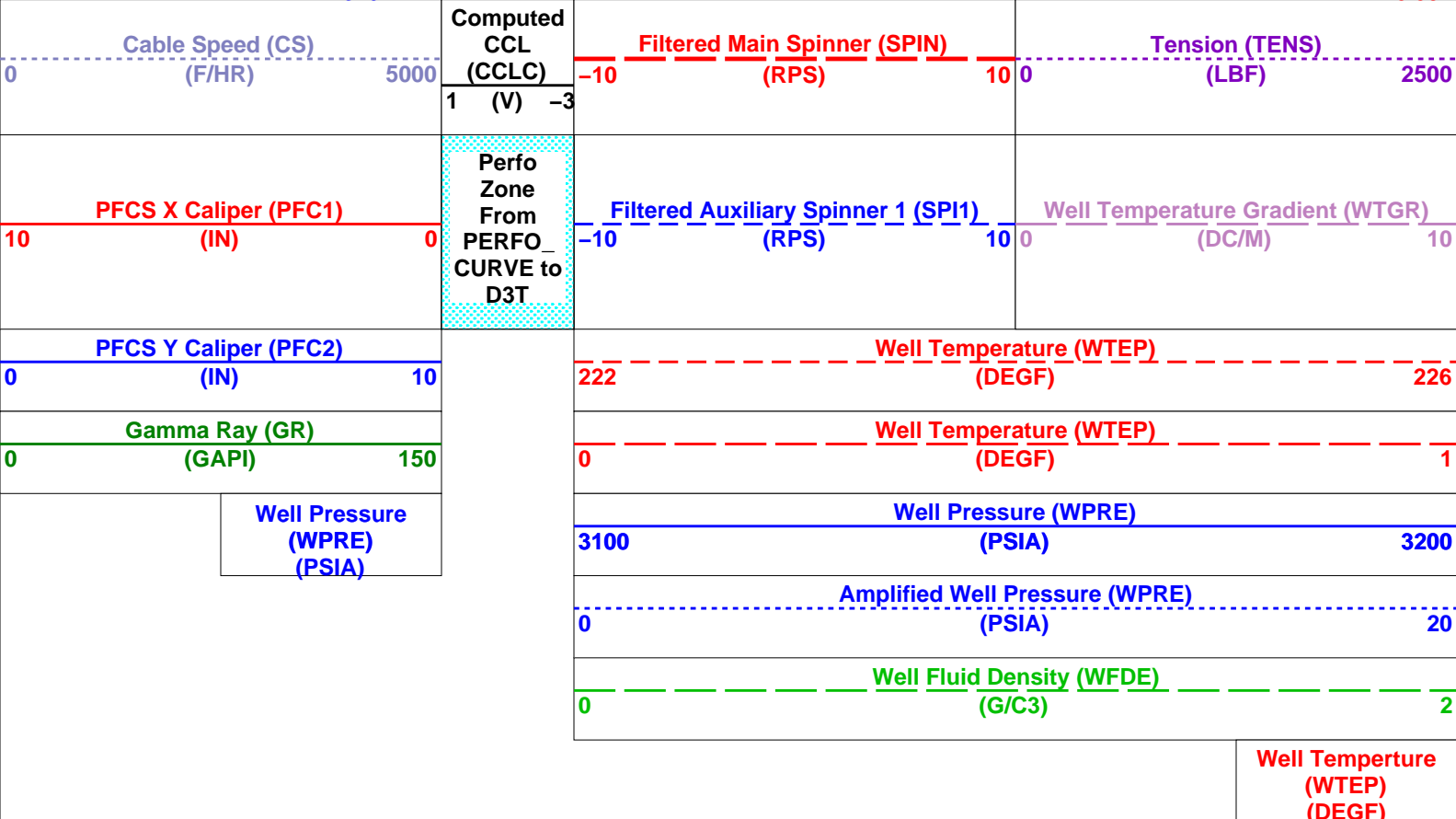
PFCS-A SRPC-3624-Q2_2008_OP16_b PILS-A SRPC-3624-Q2_2008_OP16_b
DEFT-C2 SRPC-3624-Q2_2008_OP16_b PGMC-A SRPC-3624-Q2_2008_OP16_b
PSPT-B SRPC-3624-Q2_2008_OP16_b

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200

Graphics File Created: 19-Jan-2009 14:37

OP System Version: 16C0-147

MCM

PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

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	46 DEG
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5
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_2.5

PGMC-A: PSP Gradiomanometer Measurement Module			1	
GCPG	Gradio Surf.Cal Diff.Pres Gain		0	KPAA
GCPO	Gradio Surf.Cal Diff.Pres Offset		0	G/C3
PDSH	Gradio Correction Density Shift			
PSPT-B: Production Services Logging Platform				
GDEV	Average Angular Deviation of Borehole from Normal	46		DEG
System and Miscellaneous				
DO	Depth Offset for Playback	0.1		M
PP	Playback Processing	NORMAL		

Input DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_066LUP	FN:60	PRODUCER	19-Jan-2009 10:38	2995.4 M	2921.5 M
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Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_073PUP	FN:66	PRODUCER	19-Jan-2009 14:37		
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Input DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_066LUP	FN:60	PRODUCER	19-Jan-2009 10:38	2995.4 M	2921.5 M
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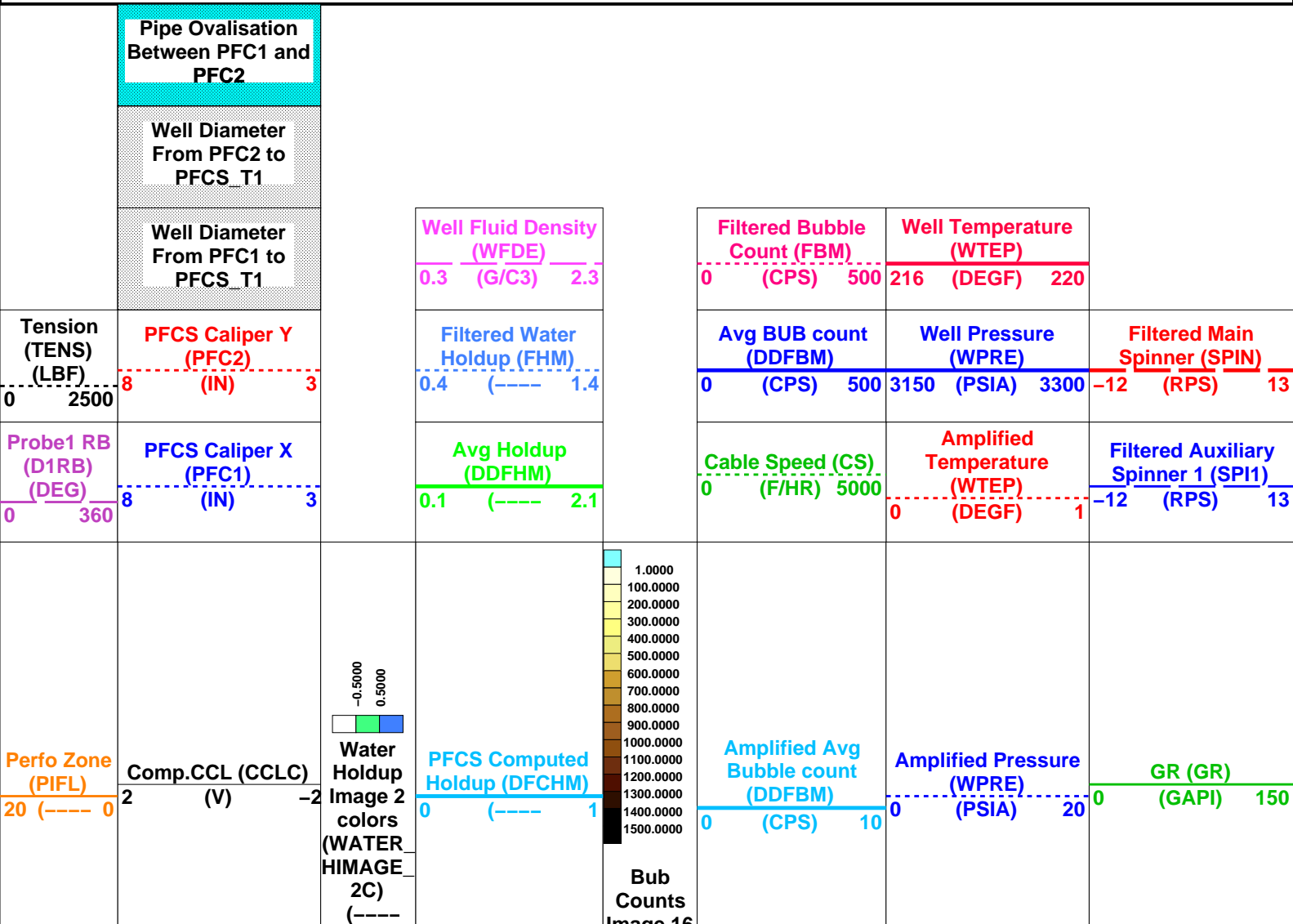
Output DLIS Files

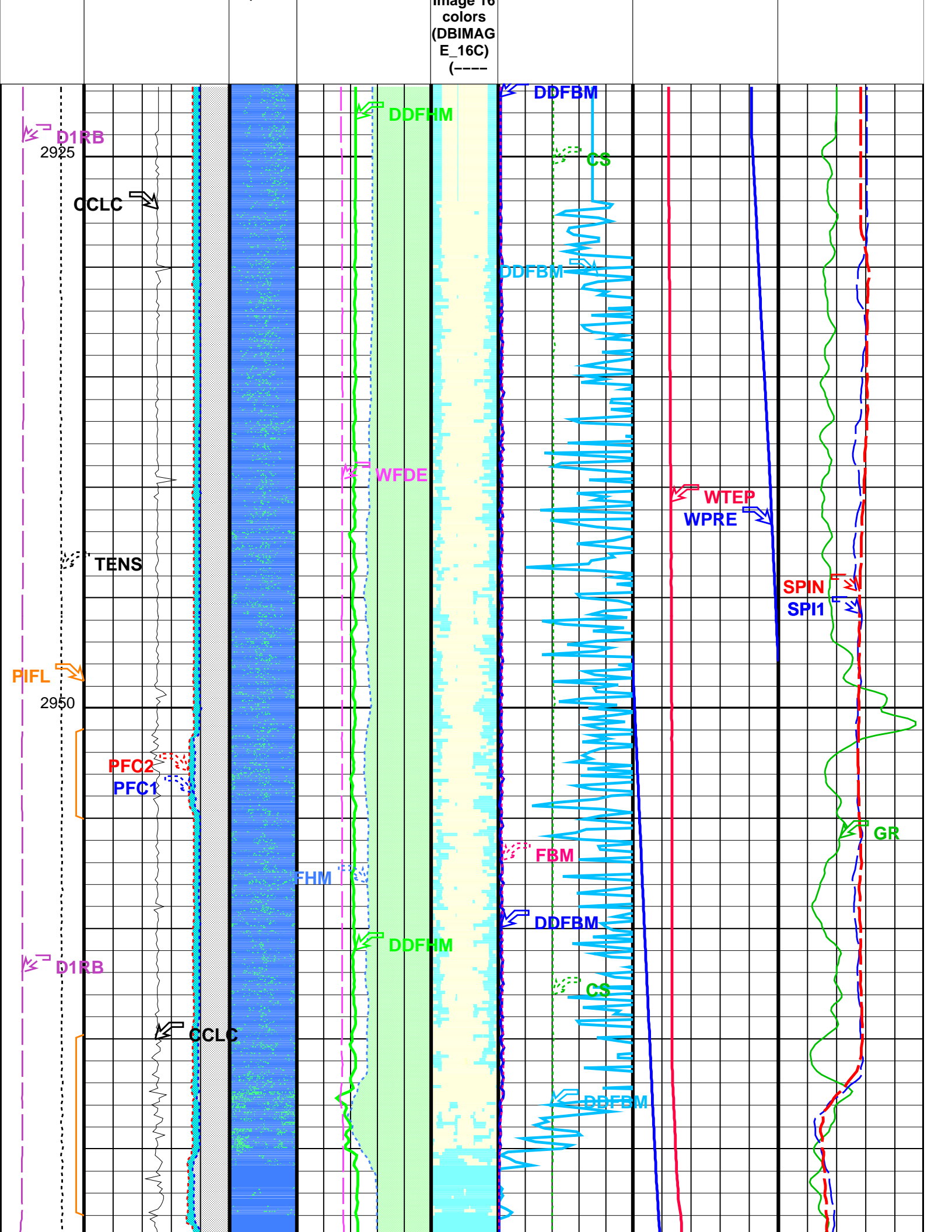
DEFAULT	FCS_ILS_DEFT_GMS_073PUP	FN:66	PRODUCER	19-Jan-2009 14:37	2995.6 M	2921.7 M
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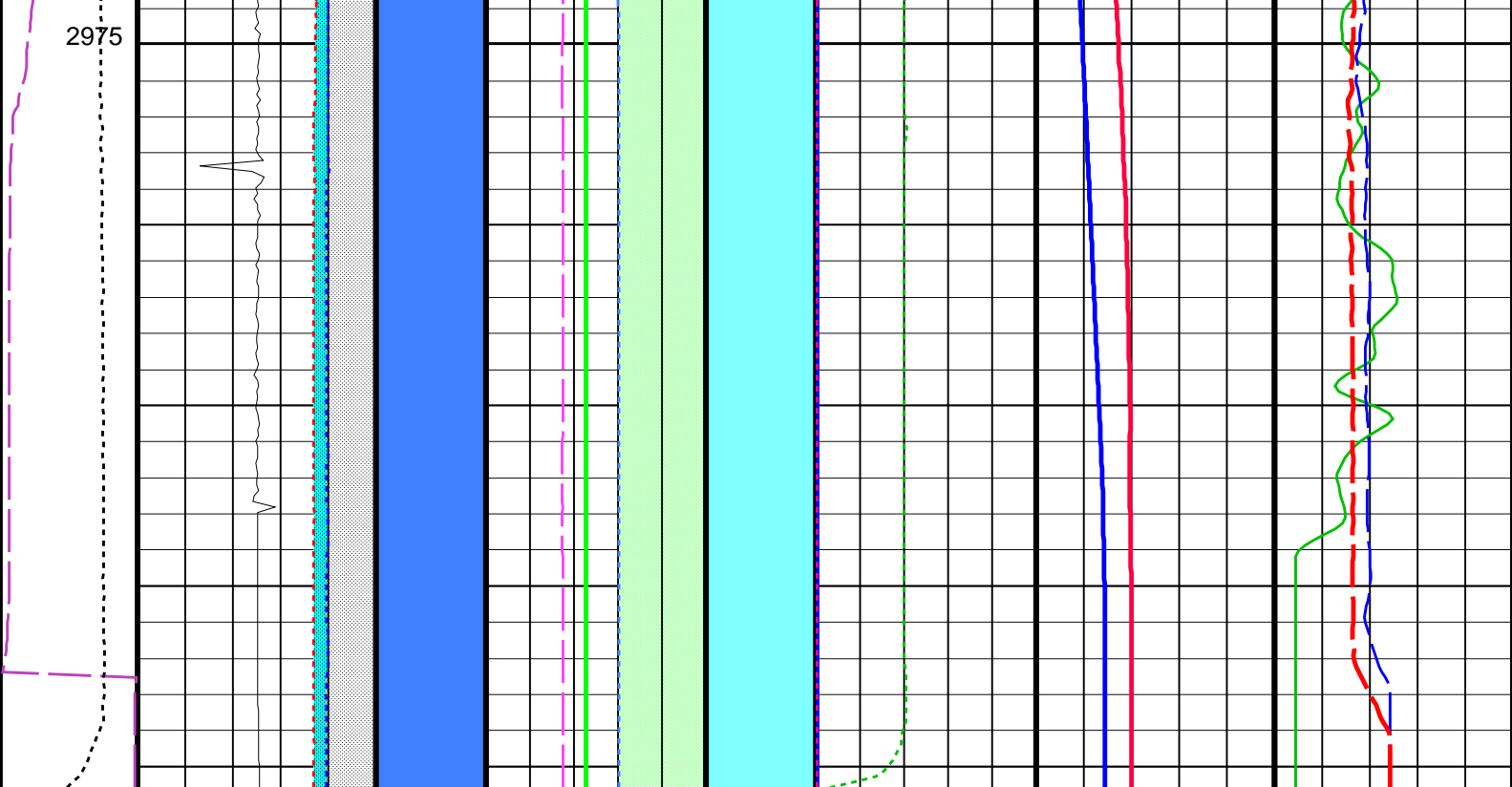
OP System Version: 16C0-147

MCM

PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		



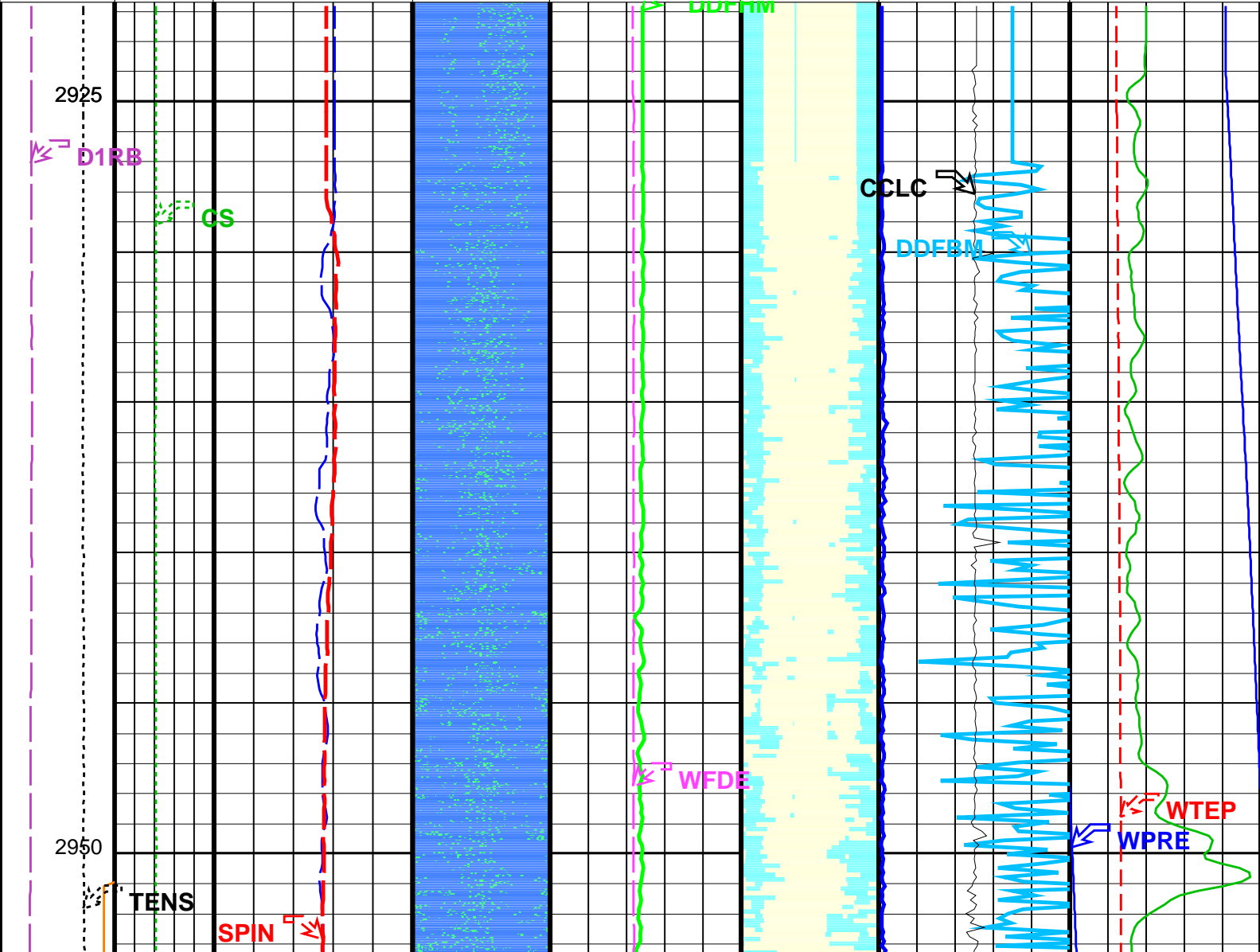


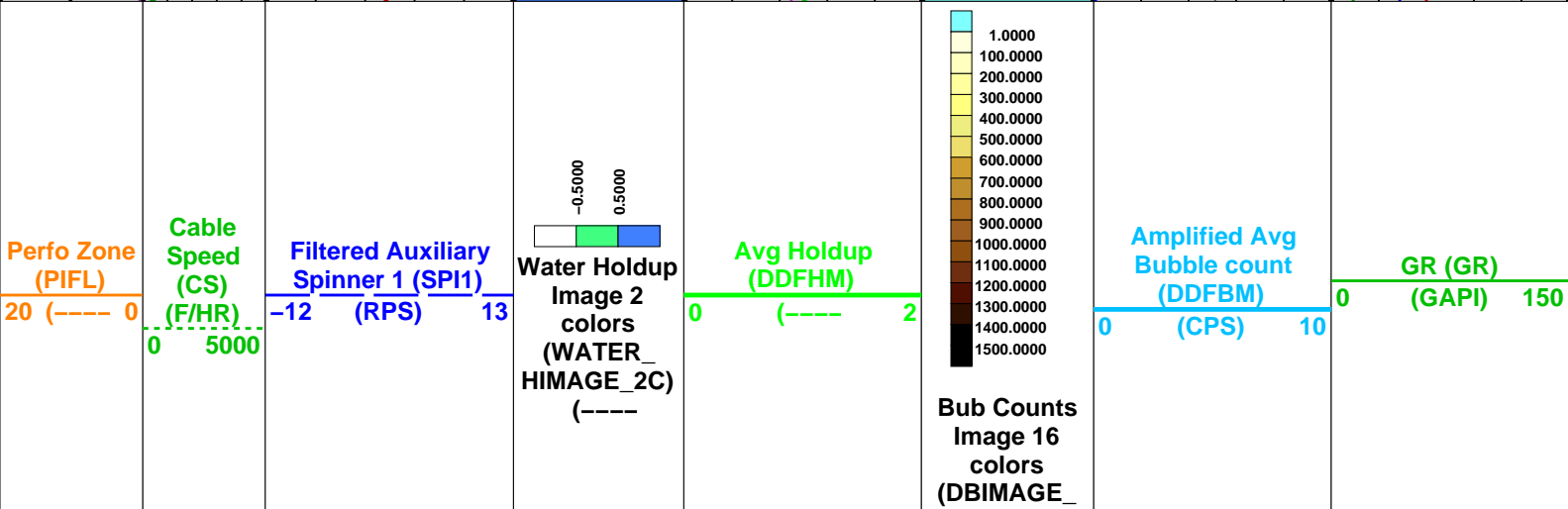
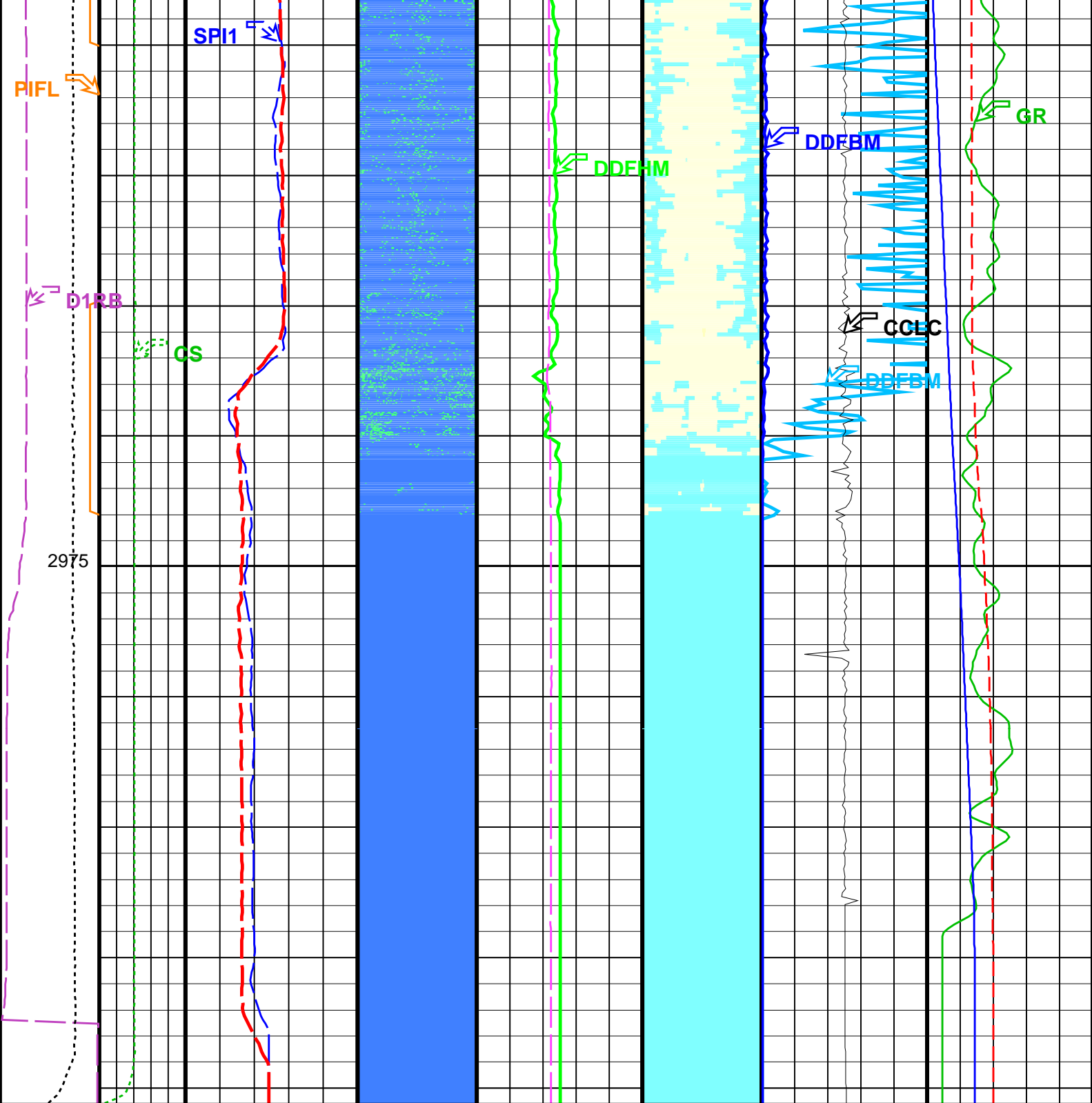


<div>Perfo Zone (PIFL)</div> <div>20 (-----) 0</div>	<div>Comp.CCL (CCLC)</div> <div>2 (V) ----- -2</div>	<div><div><div>-0.5000</div><div>0.5000</div></div><div>Water Holdup Image 2 colors (WATER HIMAGE 2C) (-----)</div></div> <div><div><div>1.0000</div><div>100.0000</div><div>200.0000</div><div>300.0000</div><div>400.0000</div><div>500.0000</div><div>600.0000</div><div>700.0000</div><div>800.0000</div><div>900.0000</div><div>1000.0000</div><div>1100.0000</div><div>1200.0000</div><div>1300.0000</div><div>1400.0000</div><div>1500.0000</div></div><div>Bub Counts Image 16 colors (DBIMAG E_16C) (-----)</div></div>	<div>PFCS Computed Holdup (DFCHM)</div> <div>0 (-----) 1</div>	<div>Amplified Avg Bubble count (DDFBM)</div> <div>0 (CPS) ----- 10</div>	<div>Amplified Pressure (WPRE)</div> <div>0 (PSIA) ----- 20</div>	<div>GR (GR)</div> <div>0 (GAPI) ----- 150</div>
<div>Probe1 RB (D1RB) (DEG)</div> <div>0 ----- 360</div>	<div>PFCS Caliper X (PFC1)</div> <div>8 (IN) ----- 3</div>		<div>Avg Holdup (DDFHM)</div> <div>0.1 (-----) 2.1</div>	<div>Cable Speed (CS)</div> <div>0 (F/HR) ----- 5000</div>	<div>Amplified Temperature (WTEP)</div> <div>0 (DEGF) ----- 1</div>	<div>Filtered Auxiliary Spinner 1 (SPI1)</div> <div>-12 (RPS) ----- 13</div>
<div>Tension (TENS) (LBF)</div> <div>0 ----- 2500</div>	<div>PFCS Caliper Y (PFC2)</div> <div>8 (IN) ----- 3</div>		<div>Filtered Water Holdup (FHM)</div> <div>0.4 (-----) 1.4</div>	<div>Avg BUB count (DDFBM)</div> <div>0 (CPS) ----- 500</div>	<div>Well Pressure (WPRE)</div> <div>3150 (PSIA) ----- 3300</div>	<div>Filtered Main Spinner (SPIN)</div> <div>-12 (RPS) ----- 13</div>
	<div>Well Diameter From PFC1 to PFCS_T1</div>		<div>Well Fluid Density (WFDE)</div> <div>0.3 (G/C3) ----- 2.3</div>	<div>Filtered Bubble Count (FBM)</div> <div>0 (CPS) ----- 500</div>	<div>Well Temperature (WTEP)</div> <div>216 (DEGF) ----- 220</div>	
	<div>Well Diameter From PFC2 to PFCS_T1</div>					
	<div>Pipe Ovalisation Between PFC1 and PFC2</div>					

Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 19-Jan-2009 14:37						
OP System Version: 16C0-147						
MCM						
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DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b			
PSPT-B	SRPC-3624-Q2_2008_OP16_b					
Parameters						
DLIS Name		Description		Value		
PFCS-A: PSP Flow and caliper Tool						
AMOD	Spinner Filter Averaging Mode		LINEAR_AVERAGE			
CSID	Casing Size I.D.		3.958		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			
GDEV	Average Angular Deviation of Borehole from Normal		46		DEG	
SDCF	Spinner Depth Constant Filter		6			
SPI1	Auxiliary Spinner 1 Flowmeter Sonde		PILS-A			
SPIN	Main Spinner Flowmeter Sonde		PFCS-A_2.5			
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_2.5			
DEFT-C2: DEFT_C Tool						
CSID	Casing Size I.D.		3.958		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)		D			
PGMC-A: PSP Gradiomanometer Measurement Module						
CSID	Casing Size I.D.		3.958		IN	
GCPG	Gradio Surf.Cal Diff.Pres Gain		1			
GCPG	Gradio Surf.Cal Diff.Pres Offset		0		KPAA	
PDSH	Gradio Correction Density Shift		0		G/C3	
PSPT-B: Production Services Logging Platform						
CSID	Casing Size I.D.		3.958		IN	
GDEV	Average Angular Deviation of Borehole from Normal		46		DEG	
BORDYN: BorDyn (Well Test Validation)						
CSID	Casing Size I.D.		3.958		IN	
System and Miscellaneous						
CSIZ	Current Casing Size		4.500		IN	
DO	Depth Offset for Playback		0.1		M	
PP	Playback Processing		NORMAL			
Input DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_066LUP	FN:60	PRODUCER	19-Jan-2009 10:38	2995.4 M	2921.5 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_073PUP	FN:66	PRODUCER	19-Jan-2009 14:37		
Input DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_066LUP	FN:60	PRODUCER	19-Jan-2009 10:38	2995.4 M	2921.5 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_073PUP	FN:66	PRODUCER	19-Jan-2009 14:37	2995.6 M	2921.7 M
OP System Version: 16C0-147						
MCM						
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b			

Tension (TENS) (LBF)					Avg BUB count (DDFBM)		Well Temperature (WTEP)	
0 2500					0 (CPS) 500		216 (DEGF) 220	
Probe1 RB (D1RB) (DEG)					Comp.CCL (CCLC)		Well Pressure (WPRE)	
0 360					2 (V) -2		3150 (PSIA) 3300	
Perfo Zone (PIFL)	Cable Speed (CS)	Filtered Main Spinner (SPIN)		Well Fluid Density (WFDE)				
20 (---- 0	(F/HR)	(RPS)		(G/C3)				
0 5000								
		Filtered Auxiliary Spinner 1 (SPI1)	Water Holdup Image 2 colors (WATER_ HIMAGE_2C)	Avg Holdup (DDFHM)	Amplified Avg Bubble count (DDFBM)			
		(RPS)		(---- 2	0 (CPS) 10			
					GR (GR)			
					(GAPI) 150			
			</					





Input DLIS Files

DEFAULT Flip_FCS_ILS_DEFT_071LUP PRODUCER 19-Jan-2009 14:34 2995.3 M 2920.9 M

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_072PUP FN:65 PRODUCER 19-Jan-2009 14:35 2993.4 M 2919.1 M

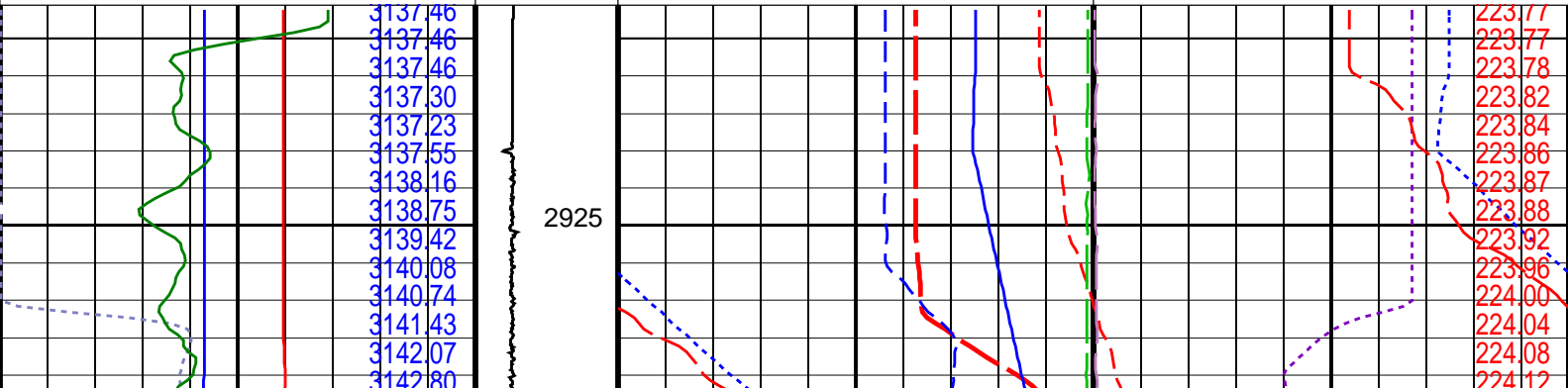
OP System Version: 16C0-147
MCM

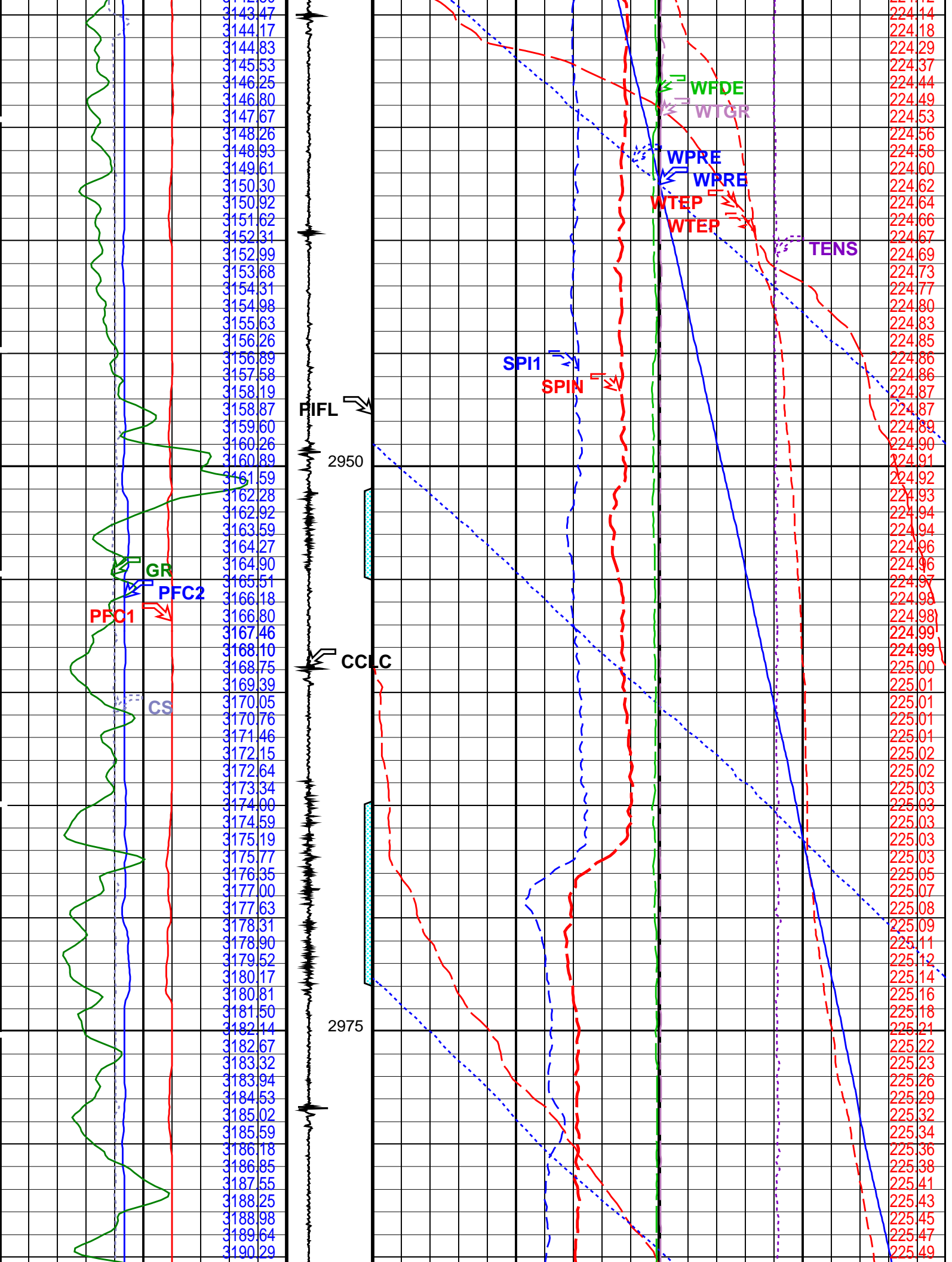
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DEFT-C2 SRPC-3624-Q2_2008_OP16_b PGMCA SRPC-3624-Q2_2008_OP16_b
PSPT-B SRPC-3624-Q2_2008_OP16_b

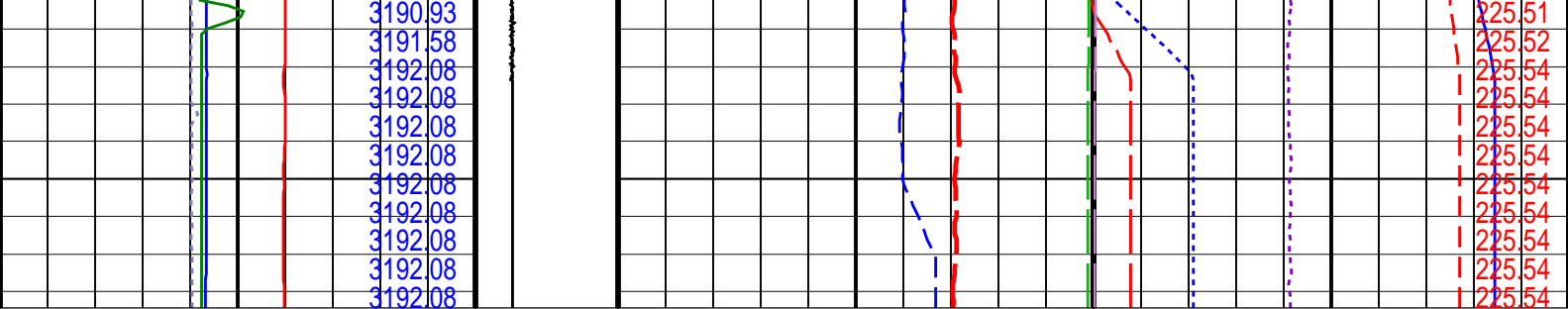
PIP SUMMARY

Time Mark Every 60 S

		Well Temperature (WTEP) (DEGF)	
		Well Fluid Density (WFDE) (G/C3)	
		Amplified Well Pressure (WPRE) (PSIA)	
		Well Pressure (WPRE) (PSIA)	
		Well Temperature (WTEP) (DEGF)	
		Well Temperature (WTEP) (DEGF)	
		Well Temperature Gradient (WTGR) (DC/M)	
		Tension (TENS) (LBF)	
		Filtered Main Spinner (SPIN) (RPS)	
		Filtered Auxiliary Spinner 1 (SP11) (RPS)	
		Cable Speed (CS) (F/HR)	
		PFCS X Caliper (PFC1) (IN)	
		PFCS Y Caliper (PFC2) (IN)	
		Gamma Ray (GR) (GAPI)	
		Well Pressure (WPRE) (PSIA)	







Cable Speed (CS) (F/HR)		0	5000	Computed CCL (CCLC) (V)	Filtered Main Spinner (SPIN) (RPS)		-10	10	Tension (TENS) (LBF)		0	2500
PFCS X Caliper (PFC1) (IN)		10	0	Perfo Zone From PERFO_ CURVE to D3T	Filtered Auxiliary Spinner 1 (SPI1) (RPS)		-10	10	Well Temperature Gradient (WTGR) (DC/M)		0	10
PFCS Y Caliper (PFC2) (IN)		0	10		Well Temperature (WTEP) (DEGF)		222					226
Gamma Ray (GR) (GAPI)		0	150		Well Temperature (WTEP) (DEGF)		0					1
Well Pressure (WPRE) (PSIA)					Well Pressure (WPRE) (PSIA)		3100					3200
					Amplified Well Pressure (WPRE) (PSIA)		0					20
					Well Fluid Density (WFDE) (G/C3)		0					2
										Well Temperature (WTEP) (DEGF)		

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200 Graphics File Created: 19-Jan-2009 14:35

OP System Version: 16C0-147

MCM

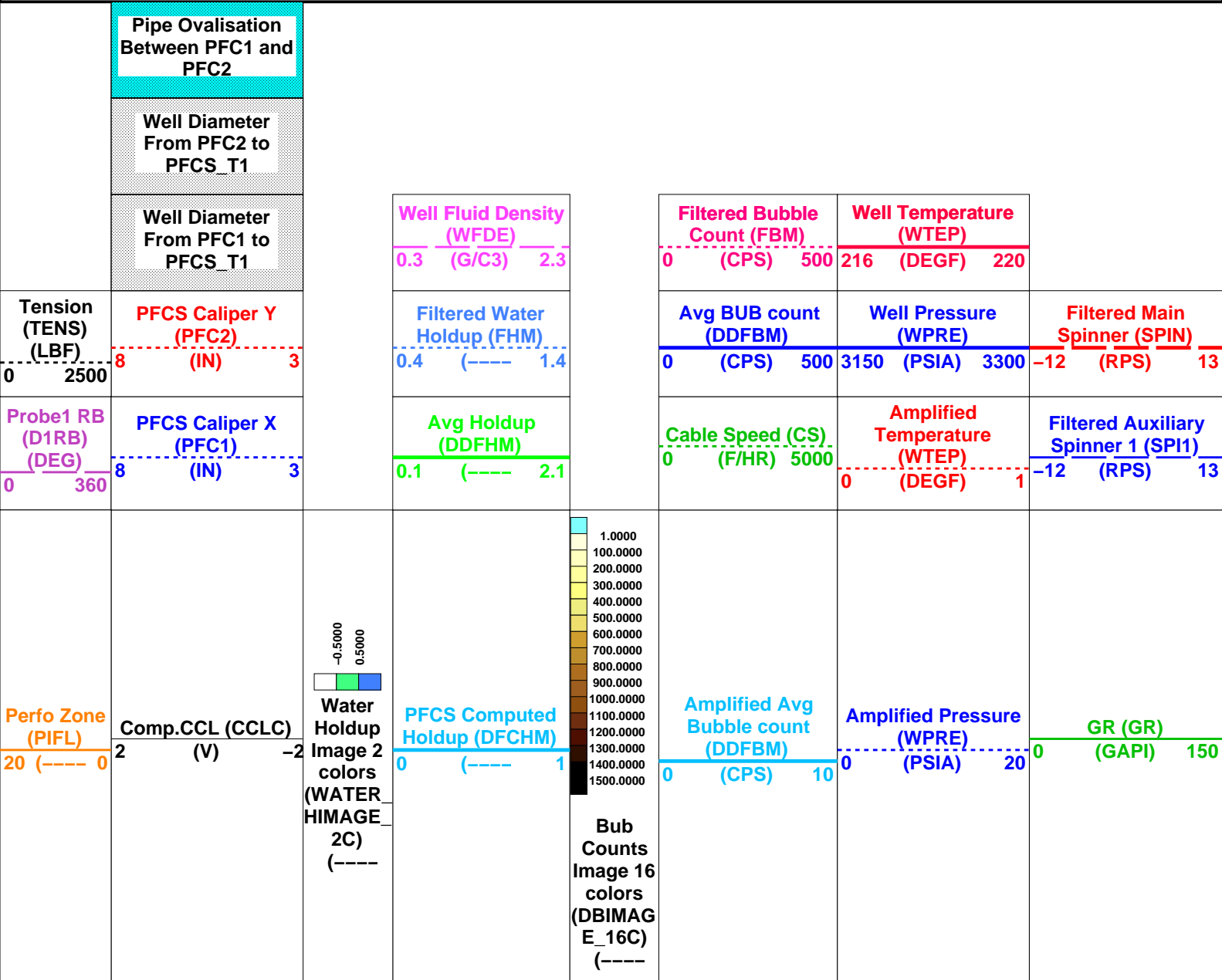
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

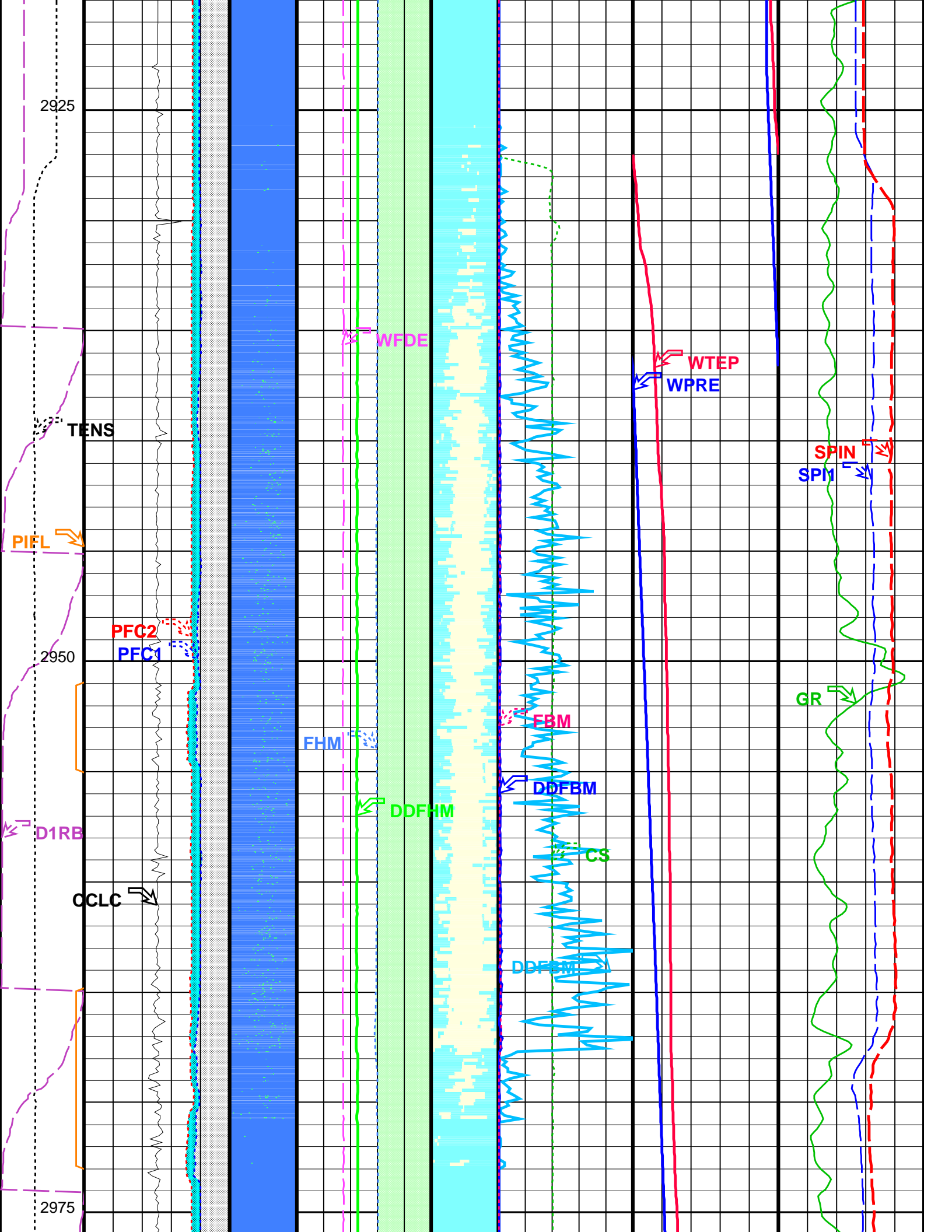
Parameters			
DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5	
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_2.5	
PGMC-A: 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-B: Production Services Logging Platform			
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
System and Miscellaneous			

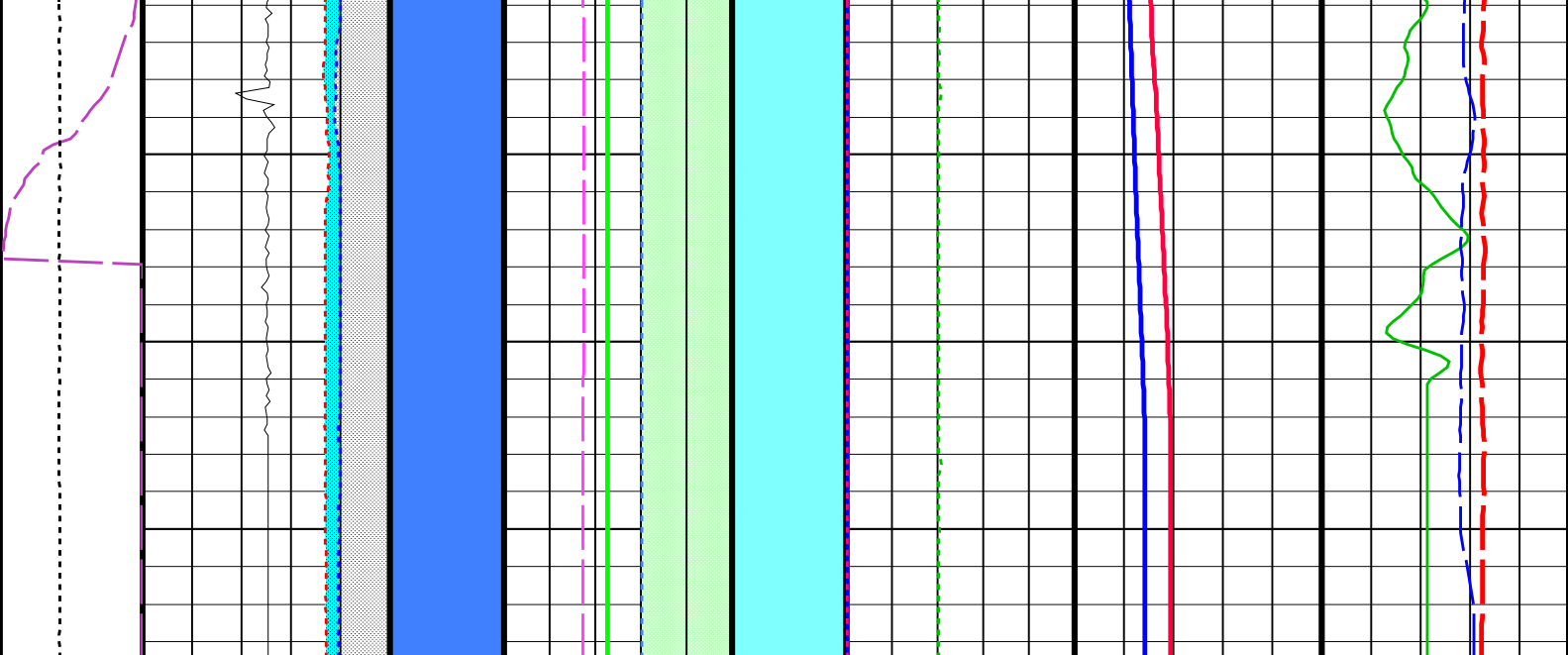
Input DLIS Files					
DEFAULT	Flip_FCS_ILS_DEFT_071LUP	PRODUCER	19-Jan-2009 14:34	2995.3 M	2920.9 M
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_072PUP	FN:65	PRODUCER	19-Jan-2009 14:35	

Input DLIS Files					
DEFAULT	Flip_FCS_ILS_DEFT_071LUP	PRODUCER	19-Jan-2009 14:34	2995.3 M	2920.9 M
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_072PUP	FN:65	PRODUCER	19-Jan-2009 14:35	2993.4 M

OP System Version: 16C0-147			
MCM			
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		







Perfo Zone (PIFL) 20 (----) 0		Comp.CCL (CCLC) (V) 2 -2	Water Holdup Image 2 colors (WATER HIMAGE 2C) (----) -0.5000 0.5000	PFCs Computed Holdup (DFCHM) (----) 0 1	Bub Counts Image 16 colors (DBIMAG E_16C) (----) 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	Amplified Avg Bubble count (DDFBM) (CPS) 0 10	Amplified Pressure (WPRE) (PSIA) 0 20	GR (GR) (GAPI) 0 150
Probe1 RB (D1RB) (DEG) 0 360	PFCs Caliper X (PFC1) (IN) 8 3			Avg Holdup (DDFHM) (----) 0.1 2.1		Cable Speed (CS) (F/HR) 0 5000	Amplified Temperature (WTEP) (DEGF) 0 1	Filtered Auxiliary Spinner 1 (SPI1) (RPS) -12 13
Tension (TENS) (LBF) 0 2500	PFCs Caliper Y (PFC2) (IN) 8 3			Filtered Water Holdup (FHM) (----) 0.4 1.4		Avg BUB count (DDFBM) (CPS) 0 500	Well Pressure (WPRE) (PSIA) 3150 3300	Filtered Main Spinner (SPIN) (RPS) -12 13
	Well Diameter From PFC1 to PFCs_T1			Well Fluid Density (WFDE) (G/C3) 0.3 2.3		Filtered Bubble Count (FBM) (CPS) 0 500	Well Temperature (WTEP) (DEGF) 216 220	
	Well Diameter From PFC2 to PFCs_T1							
	Pipe Ovalisation Between PFC1 and PFC2							

Format: PFCS_Image_DL

Vertical Scale: 1:200

Graphics File Created: 19-Jan-2009 14:35

OP System Version: 16C0-147

MCM

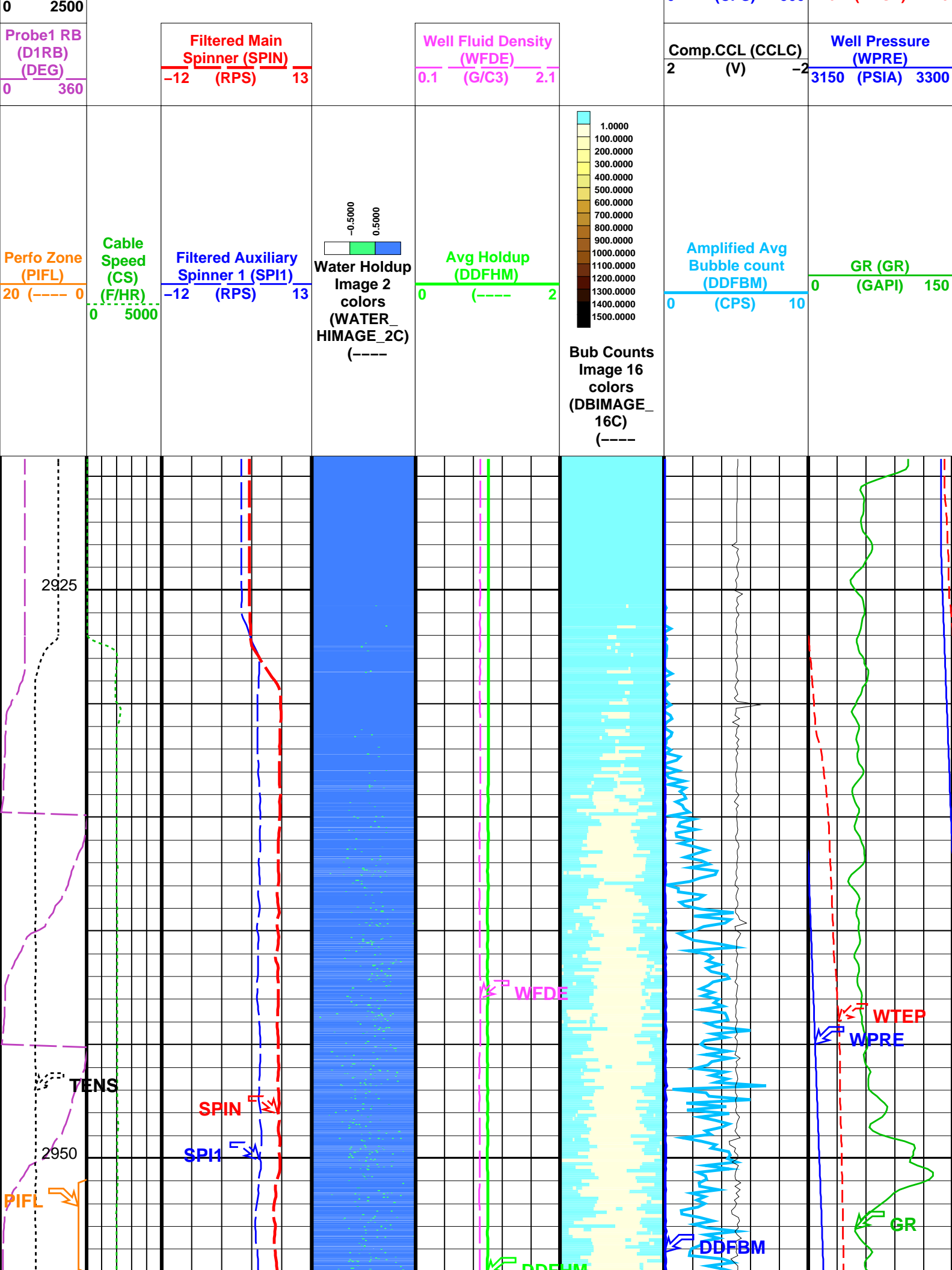
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		
Parameters			
DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	3.958	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DDFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP	Probes Arm Position	C	
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
SDCF	Spinner Depth Constant Filter	6	
SP11	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5	
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_2.5	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	3.958	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DDFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP2	Probes Arm Position (2nd tool)	D	
PGMC-A: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	3.958	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-B: Production Services Logging Platform			
CSID	Casing Size I.D.	3.958	IN
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	3.958	IN
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
DO	Depth Offset for Playback	-1.9	M
PP	Playback Processing	NORMAL	

Input DLIS Files					
DEFAULT	Flip_FCS_ILS_DEFT_071LUP	PRODUCER	19-Jan-2009 14:34	2995.3 M	2920.9 M
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_072PUP	FN:65	PRODUCER	19-Jan-2009 14:35	

Input DLIS Files					
DEFAULT	Flip_FCS_ILS_DEFT_071LUP	PRODUCER	19-Jan-2009 14:34	2995.3 M	2920.9 M
Output DLIS Files					
DEFAULT	FCS_ILS_DEFT_GMS_072PUP	FN:65	PRODUCER	19-Jan-2009 14:35	2993.4 M 2919.1 M

OP System Version: 16C0-147			
MCM			
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Tension (TENS) (LBF)		Avg BUB count (DDFBM)	Well Temperature (WTEP)
		0 (CPS) 500	216 (DEGF) 220



<div>(DEG)</div> <div>0360</div>		<div>-12(RPS)13</div>		<div>0.1(G/C3)2.1</div>		<div>2(V)-2</div>		<div>3150(PSIA)3300</div>	
Tension (TENS) (LBF)						Avg BUB count (DDFBM)		Well Temperature (WTEP)	
<div>02500</div>						<div>0(CPS)500</div>		<div>216(DEGF)220</div>	

Format: DEFT_Image_DL Vertical Scale: 1:200 Graphics File Created: 19-Jan-2009 14:35

OP System Version: 16C0-147

MCM

PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
CSID	Casing Size I.D.	3.958 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
GDEV	Average Angular Deviation of Borehole from Normal	46 DEG
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5
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_2.5
DEFT-C2: DEFT_C Tool		
CSID	Casing Size I.D.	3.958 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: PSP Gradiomanometer Measurement Module		
CSID	Casing Size I.D.	3.958 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-B: Production Services Logging Platform		
CSID	Casing Size I.D.	3.958 IN
GDEV	Average Angular Deviation of Borehole from Normal	46 DEG
BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	3.958 IN
System and Miscellaneous		
DO	Depth Offset for Playback	-1.9 M
PP	Playback Processing	NORMAL

Input DLIS Files

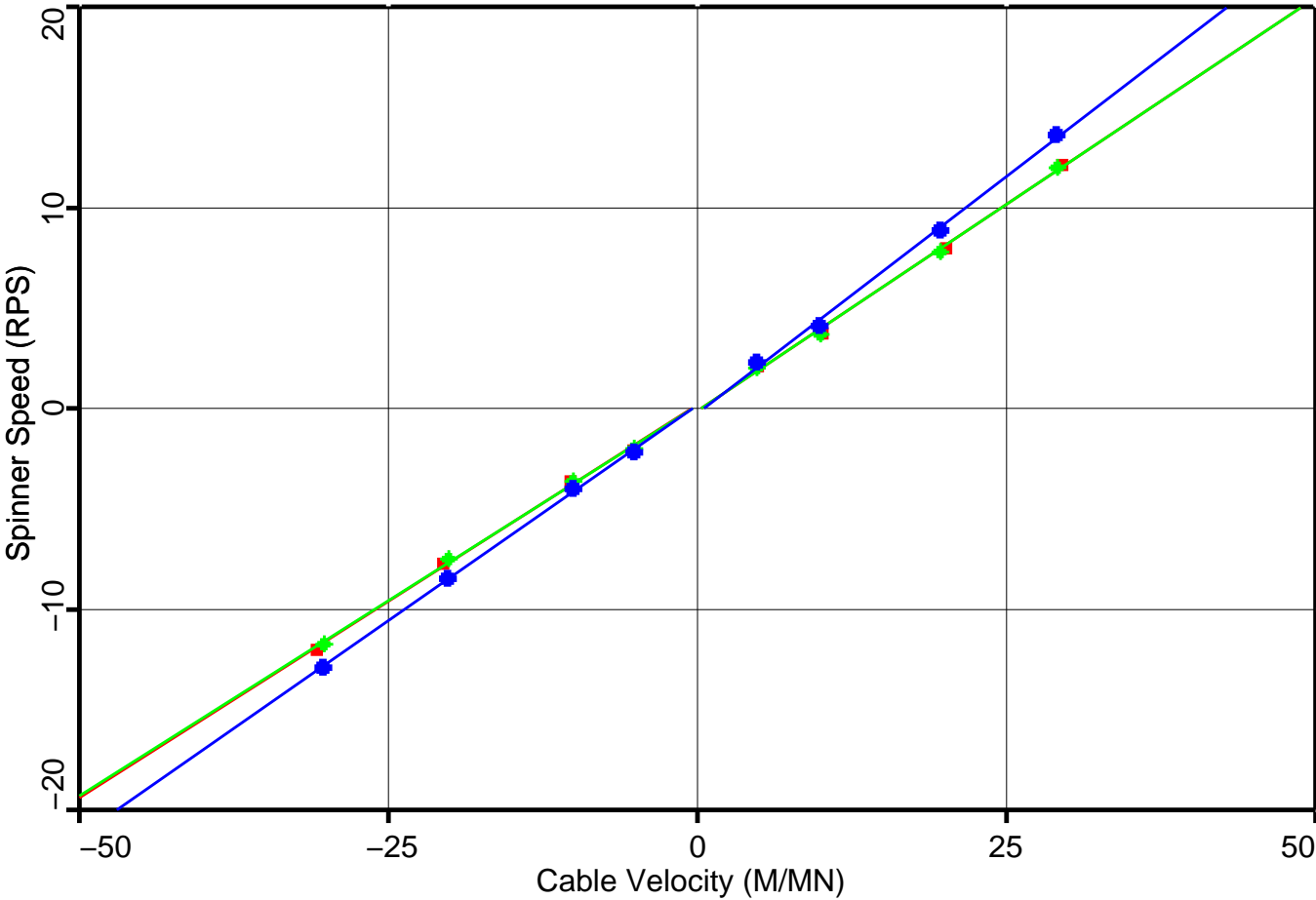
DEFAULT	Flip_FCS_ILS_DEFT_071LUP	PRODUCER	19-Jan-2009 14:34	2995.3 M	2920.9 M
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Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_072PUP	FN:65	PRODUCER	19-Jan-2009 14:35
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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	2945.0 – 2935.0 :	–1.\$	0.4132	0.4	0.999	0.3903	–0.4	0.999
■ Zone 2	2962.0 – 2957.0 :	–1.\$	0.4129	0.4	0.999	0.3881	–0.4	0.999
● Zone 3	2990.0 – 2975.0 :	–1.\$	0.4735	0.6	0.999	0.4297	–0.4	1



Static Multipass

PLQL Passes Summary

Pass # 1: Src: PLQL_CS, Log: DOWN , Avg.CS: 9 M/MN

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

Pass # 3: Src: PLQL_CS, Log: DOWN , Avg.CS: 4 M/MN

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

Pass # 5: Src: PLQL_CS, Log: DOWN , Avg.CS: 19 M/MN

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

Pass # 7: Src: PLQL_CS, Log: DOWN , Avg.CS: 29 M/MN

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

Input DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_052PUP

FN:46

PRODUCER

18-Jan-2009 06:54

2997.9 M

2907.0 M

Output DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_053PUP

FN:47

PRODUCER

18-Jan-2009 07:00

2995.0 M

2924.9 M

OP System Version: 16C0-147

MCM

PFCs-A

SRPC-3624-Q2_2008_OP16_b

PILS-A

SRPC-3624-Q2_2008_OP16_b

DEFT-C2

SRPC-3624-Q2_2008_OP16_b

PGMC-A

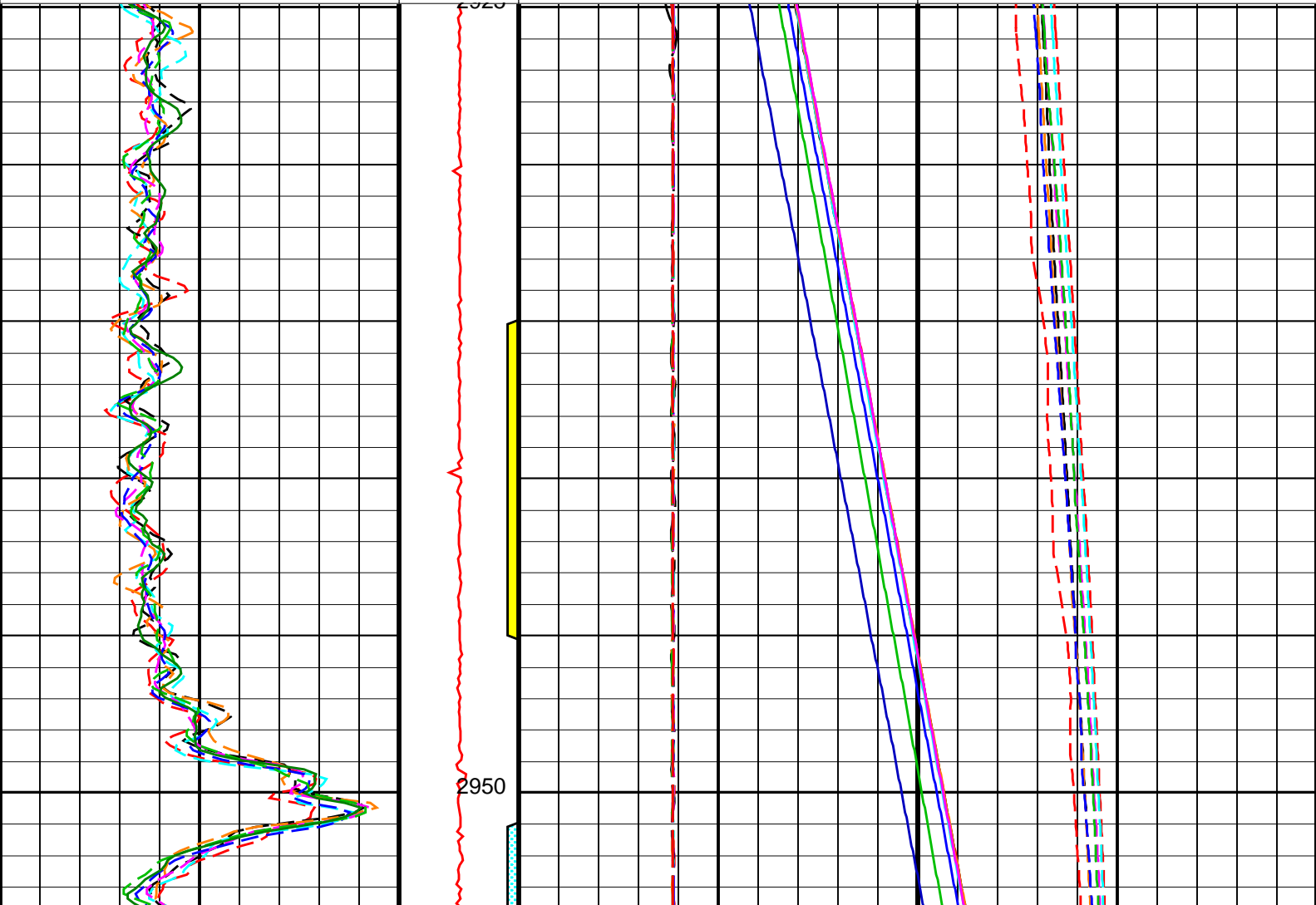
SRPC-3624-Q2_2008_OP16_b

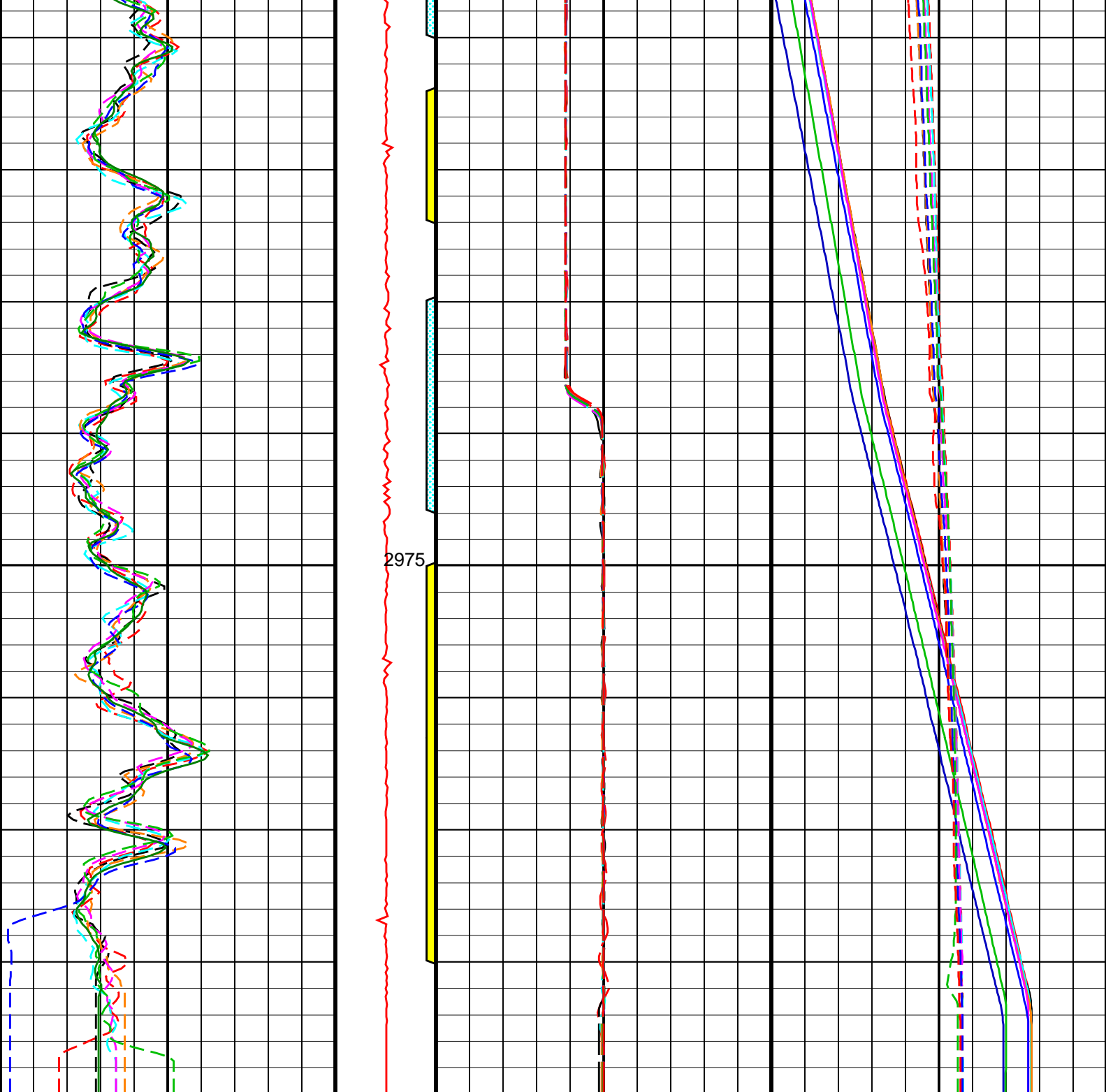
PSPT-B

SRPC-3624-Q2_2008_OP16_b

			Well Pressure [01] (P01LPR)		
			3150	(PSIA)	3250
			Well Pressure [02] (P02LPR)		
			3150	(PSIA)	3250
			Well Pressure [03] (P03LPR)		
			3150	(PSIA)	3250
			Well Pressure [04] (P04LPR)		
			3150	(PSIA)	3250
			Well Pressure [05] (P05LPR)		
			3150	(PSIA)	3250
			Well Pressure [06] (P06LPR)		
			3150	(PSIA)	3250
			Well Pressure [07] (P07LPR)		
			3150	(PSIA)	3250
			Well Pressure [08] (P08LPR)		
			3150	(PSIA)	3250
Gamma-Ray [01] (P01LGR)			Fluid Density [01] (P01FDS)		Fluid Temperature [01] (P01TMP)
0	(GAPI)	150	0	(G/C3)	2 220 (DEGF) 230
Gamma-Ray [02] (P02LGR)			Fluid Density [02] (P02FDS)		Fluid Temperature [02] (P02TMP)
0	(GAPI)	150	0	(G/C3)	2 220 (DEGF) 230

<u>Gamma-Ray [03] (P03LGR)</u> (GAPI)	Squeezed Perfo Zone From SQZPERF _CURVE to D3T	<u>Fluid Density [03] (P03FDS)</u> (G/C3)	<u>Fluid Temperature [03] (P03TMP)</u> (DEGF)
<u>Gamma-Ray [04] (P04LGR)</u> (GAPI)	Interpretat ion Zone From ZONE_ CURVE to D3T	<u>Fluid Density [04] (P04FDS)</u> (G/C3)	<u>Fluid Temperature [04] (P04TMP)</u> (DEGF)
<u>Gamma-Ray [05] (P05LGR)</u> (GAPI)	Perfo Zone From PERFO_ CURVE to D3T	<u>Fluid Density [05] (P05FDS)</u> (G/C3)	<u>Fluid Temperature [05] (P05TMP)</u> (DEGF)
<u>Gamma-Ray [06] (P06LGR)</u> (GAPI)	Squeezed Perfo Zone (SPIF) 30 (---- 0	<u>Fluid Density [06] (P06FDS)</u> (G/C3)	<u>Fluid Temperature [06] (P06TMP)</u> (DEGF)
<u>Gamma-Ray [07] (P07LGR)</u> (GAPI)	Perfo Zone (PIFL) 20 (---- 0	<u>Fluid Density [07] (P07FDS)</u> (G/C3)	<u>Fluid Temperature [07] (P07TMP)</u> (DEGF)
<u>Gamma-Ray [08] (P08LGR)</u> (GAPI)	CCL [01] (P01CCL) -3 (V) 3	<u>Fluid Density [08] (P08FDS)</u> (G/C3)	<u>Fluid Temperature [08] (P08TMP)</u> (DEGF)



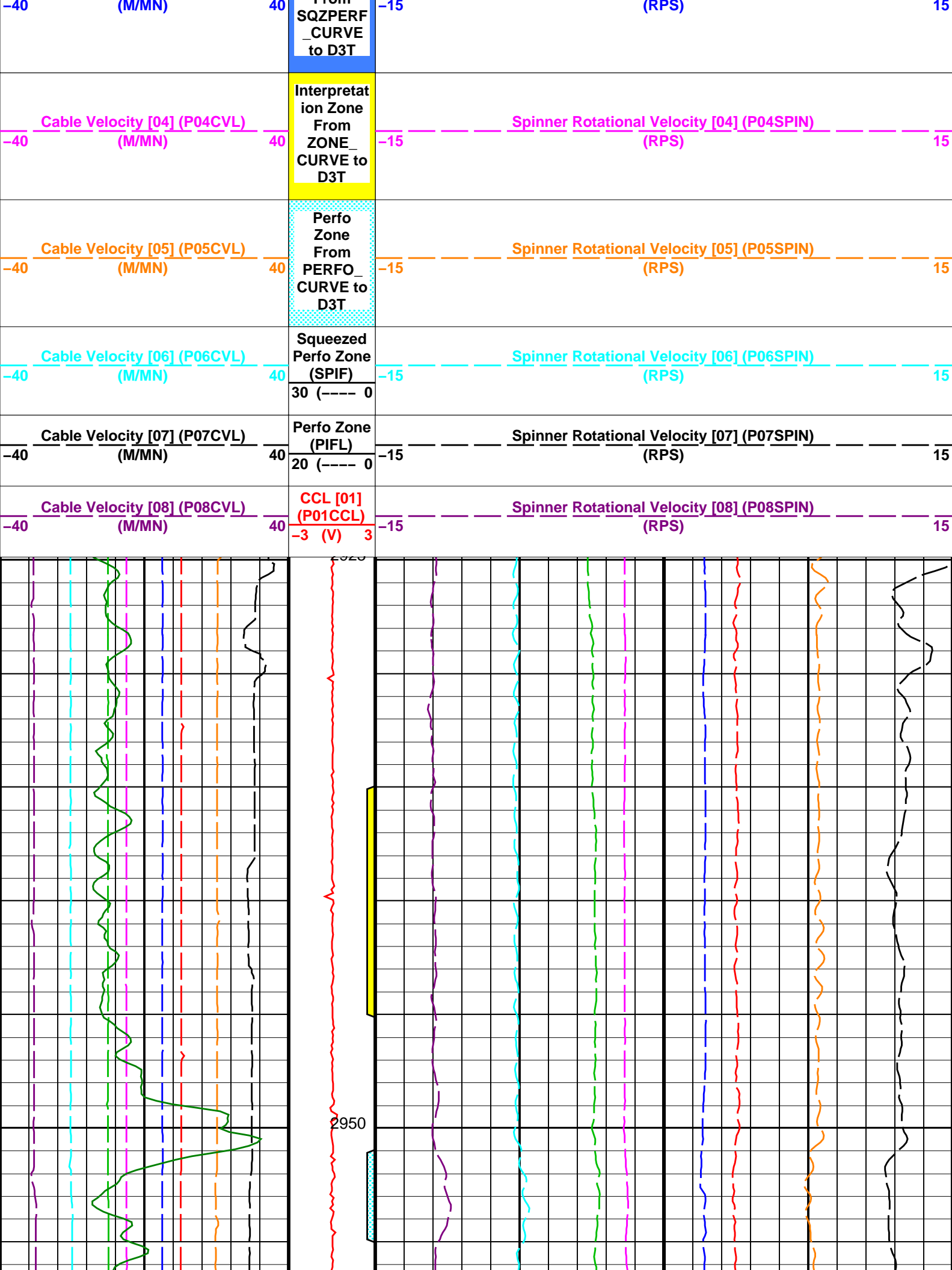


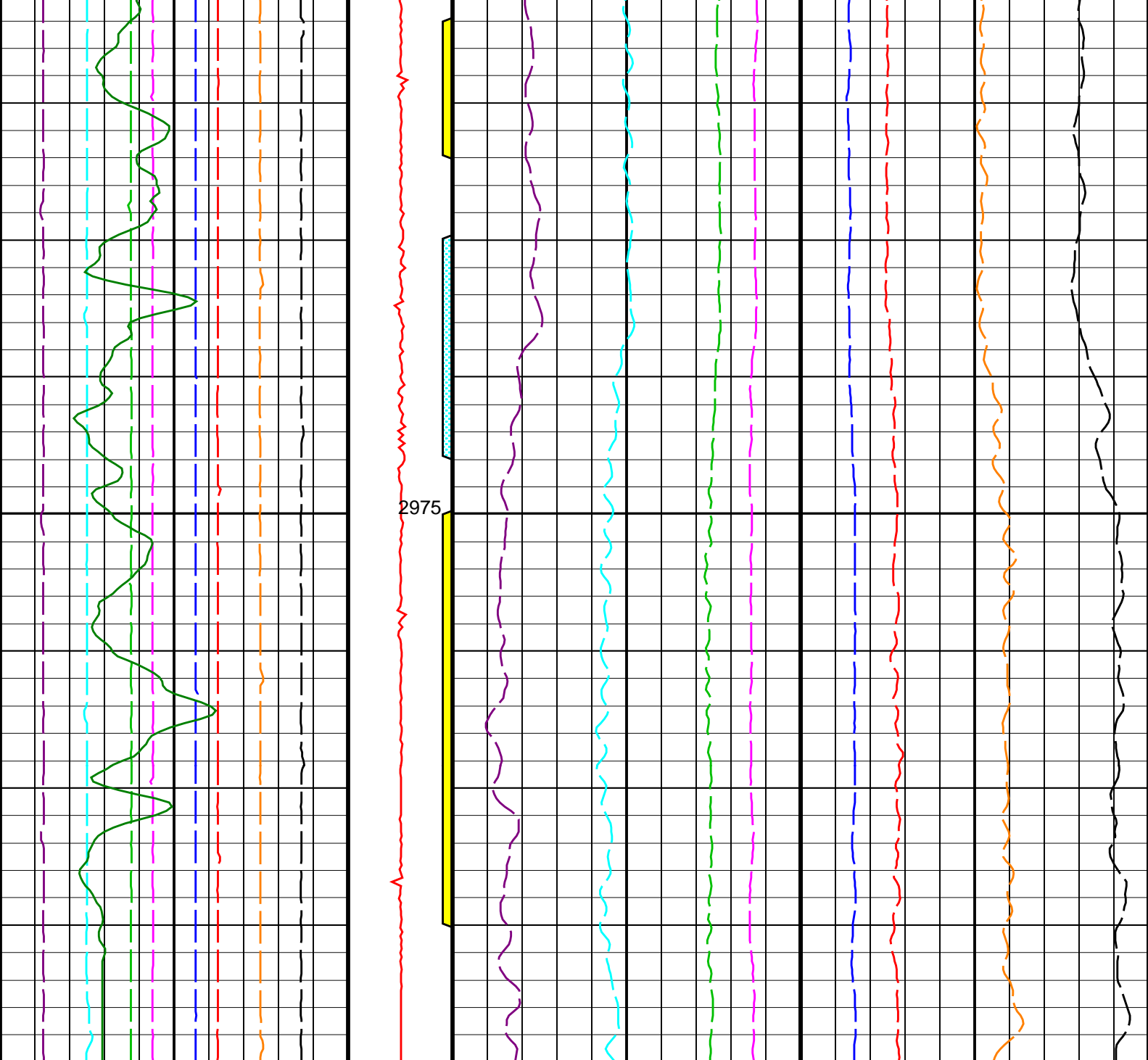
<div>Gamma-Ray [08] (P08LGR) (GAPI)</div> <div>0150</div>	<div>CCL [01] (P01CCL)</div> <div>-3 (V) 3</div>	<div>Fluid Density [08] (P08FDS) (G/C3)</div> <div>02</div>	<div>Fluid Temperature [08] (P08TMP) (DEGF)</div> <div>220230</div>
<div>Gamma-Ray [07] (P07LGR) (GAPI)</div> <div>0150</div>	<div>Perfo Zone (PIFL)</div> <div>20 (---- 0</div>	<div>Fluid Density [07] (P07FDS) (G/C3)</div> <div>02</div>	<div>Fluid Temperature [07] (P07TMP) (DEGF)</div> <div>220230</div>
<div>Gamma-Ray [06] (P06LGR) (GAPI)</div> <div>0150</div>	<div>Squeezed Perfo Zone (SPIF)</div> <div>30 (---- 0</div>	<div>Fluid Density [06] (P06FDS) (G/C3)</div> <div>02</div>	<div>Fluid Temperature [06] (P06TMP) (DEGF)</div> <div>220230</div>
<div>Gamma-Ray [05] (P05LGR) (GAPI)</div> <div>0150</div>	<div>Perfo Zone From PERFO CURVE to</div>	<div>Fluid Density [05] (P05FDS) (G/C3)</div> <div>02</div>	<div>Fluid Temperature [05] (P05TMP) (DEGF)</div> <div>220230</div>

	D3T		
Gamma-Ray [04] (P04LGR) (GAPI)	Interpretation Zone From ZONE_CURVE to D3T	Fluid Density [04] (P04FDS) (G/C3)	Fluid Temperature [04] (P04TMP) (DEGF)
0 150		0 2	220 230
Gamma-Ray [03] (P03LGR) (GAPI)	Squeezed Perfo Zone From SQZPERF_CURVE to D3T	Fluid Density [03] (P03FDS) (G/C3)	Fluid Temperature [03] (P03TMP) (DEGF)
0 150		0 2	220 230
Gamma-Ray [02] (P02LGR) (GAPI)		Fluid Density [02] (P02FDS) (G/C3)	Fluid Temperature [02] (P02TMP) (DEGF)
0 150		0 2	220 230
Gamma-Ray [01] (P01LGR) (GAPI)		Fluid Density [01] (P01FDS) (G/C3)	Fluid Temperature [01] (P01TMP) (DEGF)
0 150		0 2	220 230
		Well Pressure [08] (P08LPR)	
		3150 (PSIA) 3250	
		Well Pressure [07] (P07LPR)	
		3150 (PSIA) 3250	
		Well Pressure [06] (P06LPR)	
		3150 (PSIA) 3250	
		Well Pressure [05] (P05LPR)	
		3150 (PSIA) 3250	
		Well Pressure [04] (P04LPR)	
		3150 (PSIA) 3250	
		Well Pressure [03] (P03LPR)	
		3150 (PSIA) 3250	
		Well Pressure [02] (P02LPR)	
		3150 (PSIA) 3250	
		Well Pressure [01] (P01LPR)	
		3150 (PSIA) 3250	

Parameters			
DLIS Name	Description	Value	
CSID	PFCs-A: PSP Flow and caliper Tool	3.958	IN
CSID	DEFT-C2: DEFT_C Tool	3.958	IN
CSID	PGMC-A: PSP Gradiomanometer Measurement Module	3.958	IN
CSID	PSPT-B: Production Services Logging Platform	3.958	IN
CSID	BORDYN: BorDyn (Well Test Validation)	3.958	IN
CSID	PLQL: Production Logging Quick Look	3.958	IN
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	0.0	M
PP	Playback Processing	NORMAL	

Format: PLQLMultiPassWithInsert_1			Vertical Scale: 1:200			Graphics File Created: 18-Jan-2009 07:00		
OP System Version: 16C0-147								
MCM								
PFCs-A		SRPC-3624-Q2_2008_OP16_b			PILS-A		SRPC-3624-Q2_2008_OP16_b	
DEFT-C2		SRPC-3624-Q2_2008_OP16_b			PGMC-A		SRPC-3624-Q2_2008_OP16_b	
PSPT-B		SRPC-3624-Q2_2008_OP16_b						
Input DLIS Files								
DEFAULT	FCS_ILS_DEFT_GMS_052PUP	FN:46	PRODUCER	18-Jan-2009 06:54	2997.9 M	2907.0 M		
Output DLIS Files								
DEFAULT	FCS_ILS_DEFT_GMS_053PUP	FN:47	PRODUCER	18-Jan-2009 07:00				
Company: Esso Australia Pty Ltd.								
Well: A3A								
PLQL Passes Summary								
Pass # 1: Src: PLQL_CS, Log: DOWN , Avg.CS: 9 M/MN								
Pass # 2: Src: PLQL_CS, Log: UP , Avg.CS: 10 M/MN								
Pass # 3: Src: PLQL_CS, Log: DOWN , Avg.CS: 4 M/MN								
Pass # 4: Src: PLQL_CS, Log: UP , Avg.CS: 5 M/MN								
Pass # 5: Src: PLQL_CS, Log: DOWN , Avg.CS: 19 M/MN								
Pass # 6: Src: PLQL_CS, Log: UP , Avg.CS: 20 M/MN								
Pass # 7: Src: PLQL_CS, Log: DOWN , Avg.CS: 29 M/MN								
Pass # 8: Src: PLQL_CS, Log: UP , Avg.CS: 30 M/MN								
Company: Esso Australia Pty Ltd.								
Well: A3A								
Company: Esso Australia Pty Ltd.								
Well: A3A								
Input DLIS Files								
DEFAULT	FCS_ILS_DEFT_GMS_052PUP	FN:46	PRODUCER	18-Jan-2009 06:54	2997.9 M	2907.0 M		
Output DLIS Files								
DEFAULT	FCS_ILS_DEFT_GMS_053PUP	FN:47	PRODUCER	18-Jan-2009 07:00	2995.0 M	2924.9 M		
OP System Version: 16C0-147								
MCM								
PFCs-A		SRPC-3624-Q2_2008_OP16_b			PILS-A		SRPC-3624-Q2_2008_OP16_b	
DEFT-C2		SRPC-3624-Q2_2008_OP16_b			PGMC-A		SRPC-3624-Q2_2008_OP16_b	
PSPT-B		SRPC-3624-Q2_2008_OP16_b						
Gamma-Ray [01] (P01LGR)								
0	(GAPI)	150						
Cable Velocity [01] (P01CVL)		Spinner Rotational Velocity [01] (P01SPIN)						
-40	(M/MN)	40	-15	(RPS)				15
Cable Velocity [02] (P02CVL)		Spinner Rotational Velocity [02] (P02SPIN)						
-40	(M/MN)	40	-15	(RPS)				15
Cable Velocity [03] (P03CVL)		Squeezed Perfo Zone From	Spinner Rotational Velocity [03] (P03SPIN)					





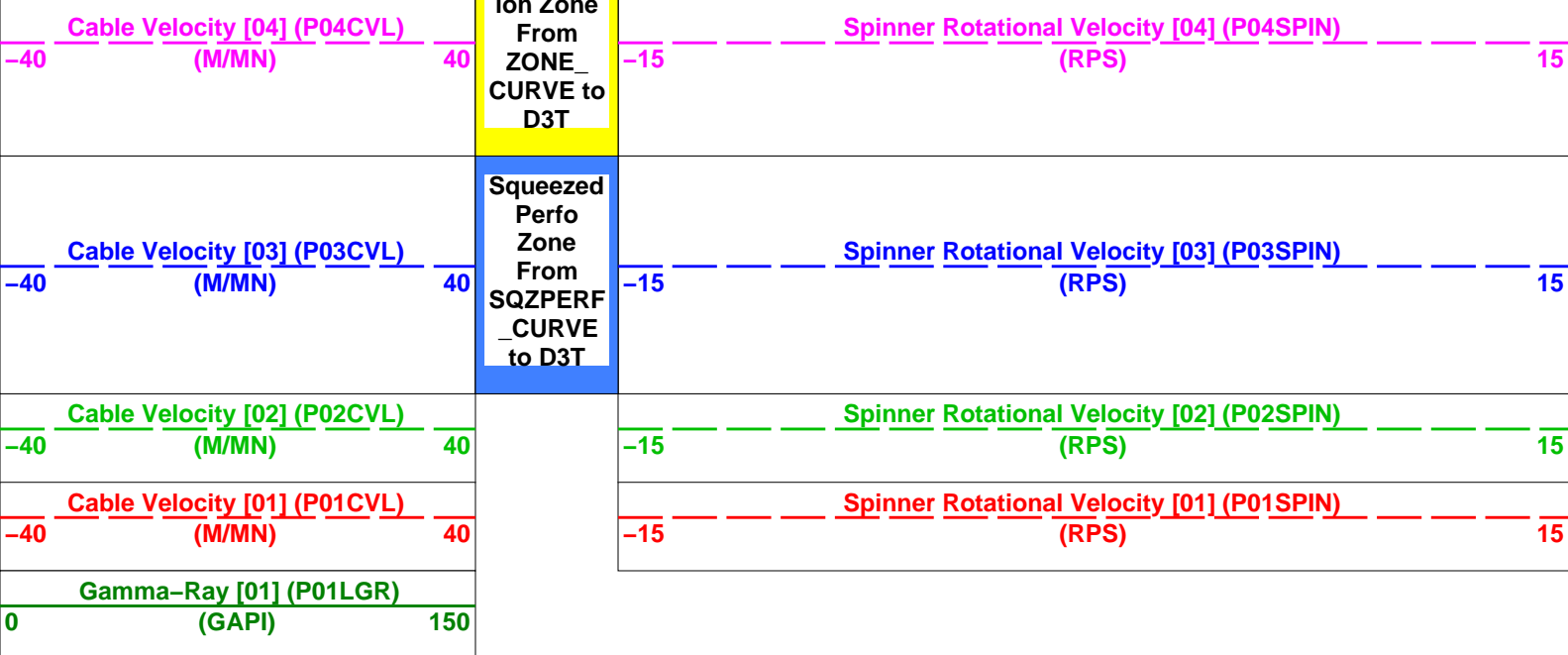
<u>Cable Velocity [08] (P08CVL)</u> (M/MN)	<u>CCL [01]</u> <u>(P01CCL)</u> -3 (V) 3	<u>Spinner Rotational Velocity [08] (P08SPIN)</u> (RPS)
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<u>Cable Velocity [07] (P07CVL)</u> (M/MN)	<u>Perfo Zone</u> <u>(PIFL)</u> 20 (---- 0)	<u>Spinner Rotational Velocity [07] (P07SPIN)</u> (RPS)
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<u>Cable Velocity [06] (P06CVL)</u> (M/MN)	<u>Squeezed</u> <u>Perfo Zone</u> <u>(SPIF)</u> 30 (---- 0)	<u>Spinner Rotational Velocity [06] (P06SPIN)</u> (RPS)
---	--	--

<u>Cable Velocity [05] (P05CVL)</u> (M/MN)	<u>Perfo</u> <u>Zone</u> <u>From</u> <u>PERFO_</u> <u>CURVE to</u> <u>D3T</u>	<u>Spinner Rotational Velocity [05] (P05SPIN)</u> (RPS)
---	--	--

	<u>Interpretation Zone</u>	
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Parameters			
DLIS Name		Description	Value
CSID	PFCS-A: PSP Flow and caliper Tool	Casing Size I.D.	3.958 IN
CSID	DEFT-C2: DEFT_C Tool	Casing Size I.D.	3.958 IN
CSID	PGMC-A: PSP Gradiomanometer Measurement Module	Casing Size I.D.	3.958 IN
CSID	PSPT-B: Production Services Logging Platform	Casing Size I.D.	3.958 IN
CSID	BORDYN: BorDyn (Well Test Validation)	Casing Size I.D.	3.958 IN
CSID	PLQL: Production Logging Quick Look	CCL Selector	CCLC
CCLS		Cased Hole Diameter Selector	PFC1
FCHD		CVEL Selector	CVEL
PCVS		GR Selector	GR
PGRS		Pressure Gauge Selector	WPRE
PGS		PLQL Water HoldUp Selector	DFHM
PWHS		Fluid Density Selector	WFDE
RHOS		Spinner Selector	SPIN
SPIS		Temperature Selector	WTEP
TMPS			
System and Miscellaneous			
DO		Depth Offset for Playback	0.0 M
PP		Playback Processing	NORMAL

Format: PLQLMultiPassWithInsert	Vertical Scale: 1:200	Graphics File Created: 18-Jan-2009 07:00
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OP System Version: 16C0-147			
MCM			
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Input DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_052PUP	FN:46	PRODUCER	18-Jan-2009 06:54	2997.9 M	2907.0 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_053PUP	FN:47	PRODUCER	18-Jan-2009 07:00		



Static Log UP @
10m/Min

Input DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_026LUP FN:25 PRODUCER 17-Jan-2009 08:48 3003.2 M 2915.7 M

Output DLIS Files

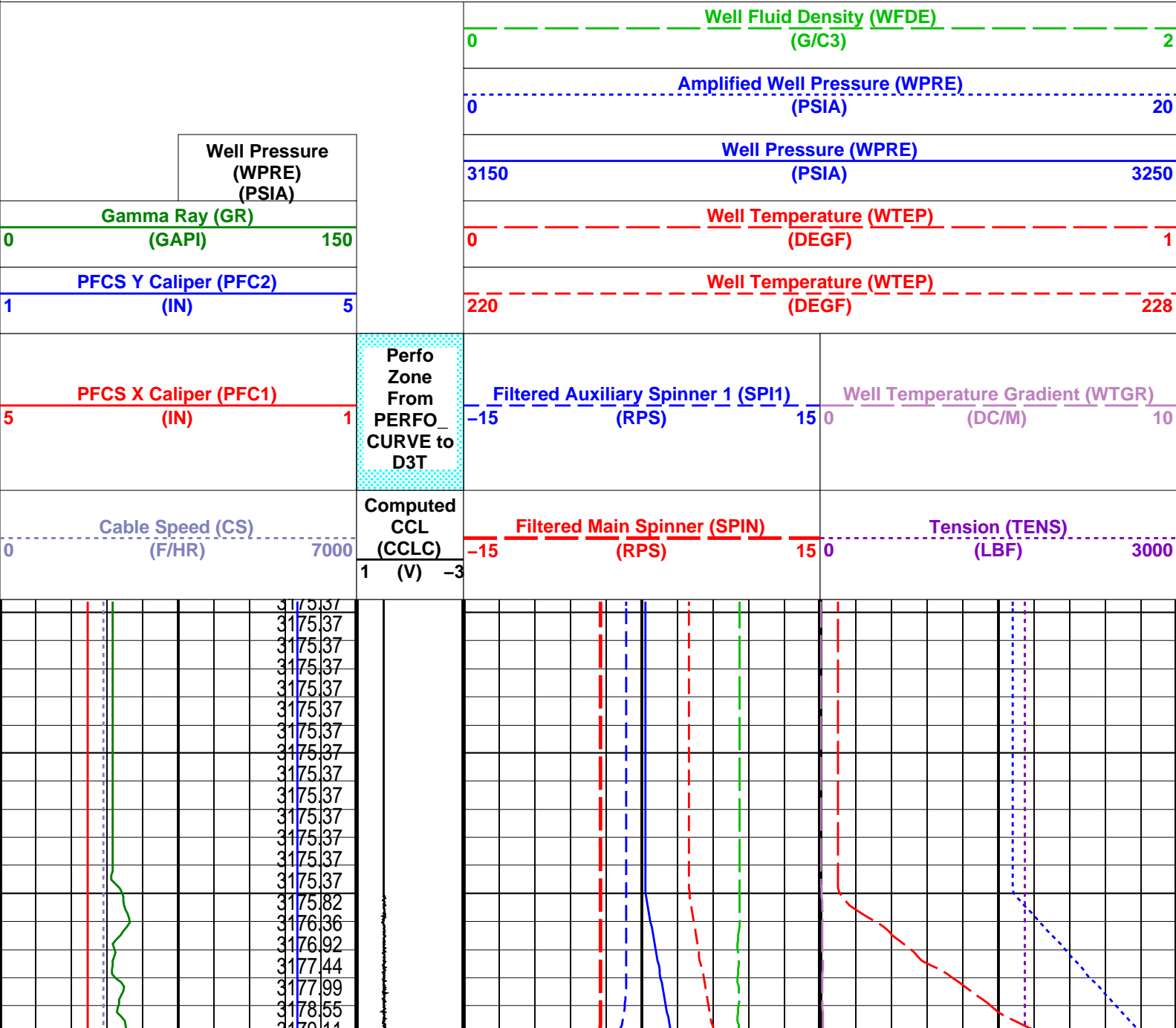
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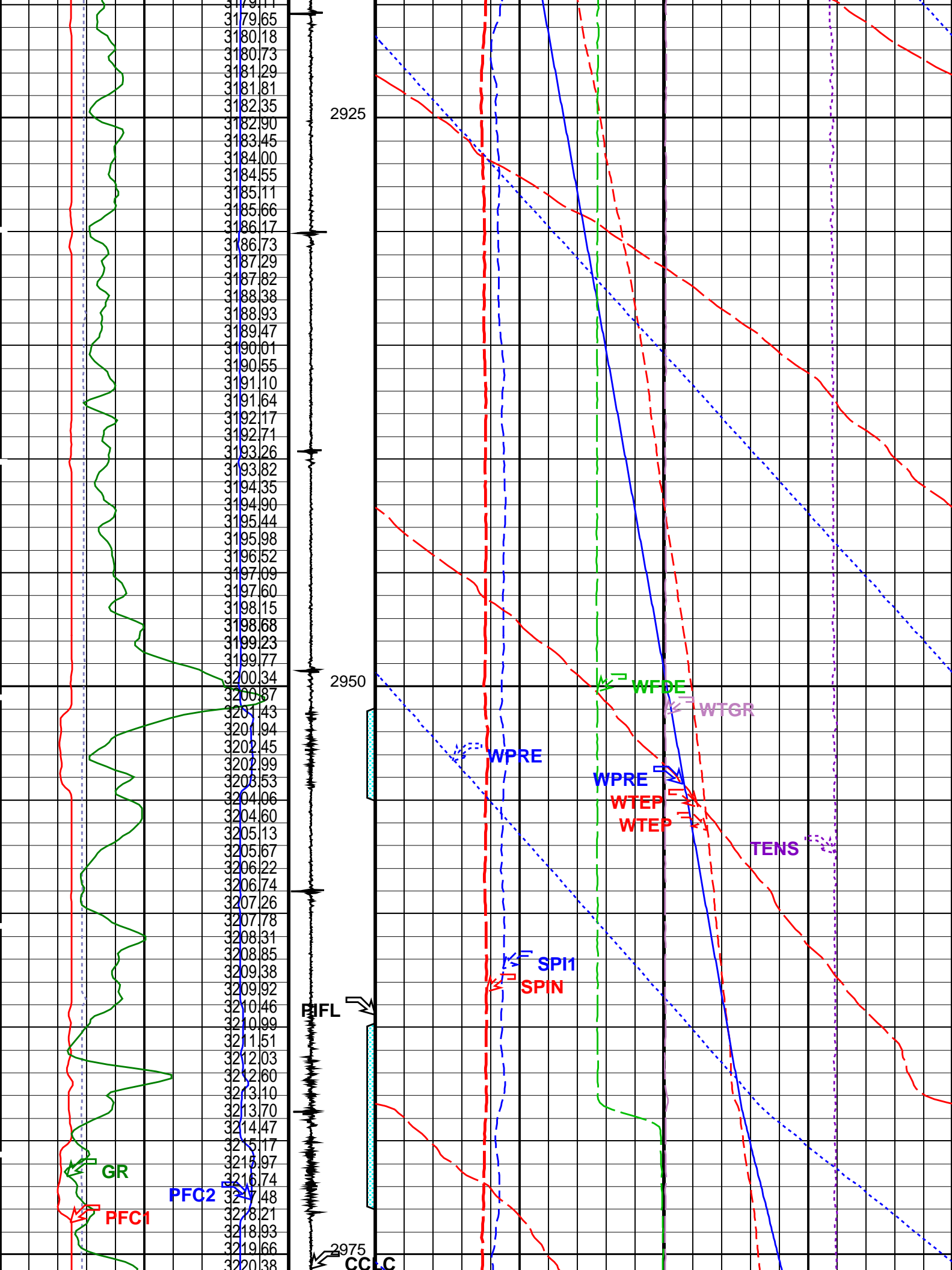
OP System Version: 16C0-147
MCM

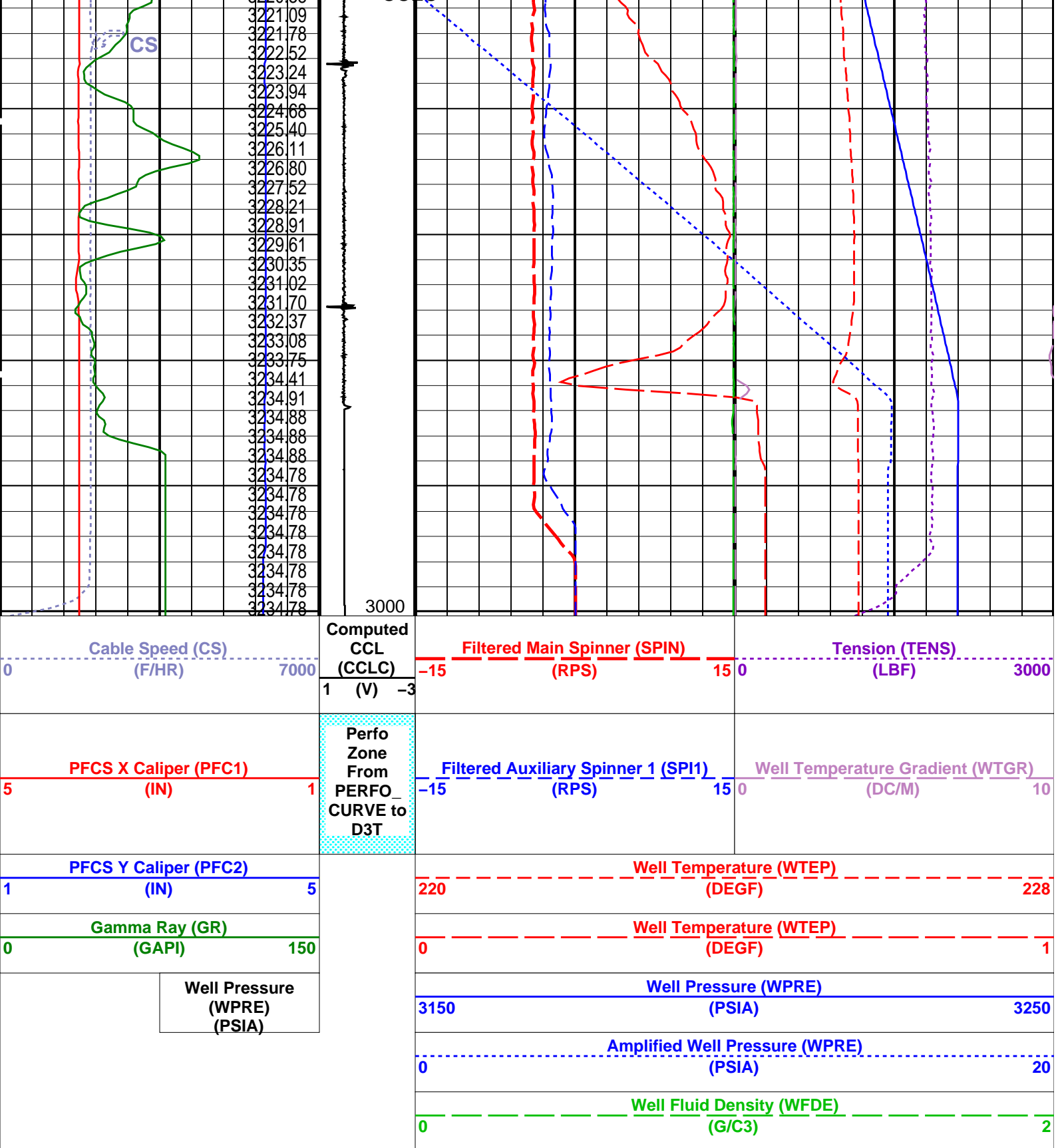
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DEFT-C2 SRPC-3624-Q2_2008_OP16_b PGM-C-A SRPC-3624-Q2_2008_OP16_b
PSPT-B SRPC-3624-Q2_2008_OP16_b

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY			
Time Mark Every 60 S			
Format: PSP_1		Vertical Scale: 1:200	
		Graphics File Created: 17-Jan-2009 09:55	
OP System Version: 16C0-147			
MCM			
PFCs-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

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	46	DEG
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS–A	
SPIN	Main Spinner Flowmeter Sonde	PFCS–A_2.5	
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_2.5	
PGMC–A: 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–B: Production Services Logging Platform			
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
System and Miscellaneous			
DO	Depth Offset for Playback	–3.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_026LUP	FN:25	PRODUCER	17–Jan–2009 08:48	3003.2 M	2915.7 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_040PUP	FN:34	PRODUCER	17–Jan–2009 09:55		

Input DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_026LUP	FN:25	PRODUCER	17-Jan-2009 08:48	3003.2 M	2915.7 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_040PUP	FN:34	PRODUCER	17-Jan-2009 09:55	3000.1 M	2904.4 M
OP System Version: 16C0-147						
MCM						
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b			
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b			
PSPT-B	SRPC-3624-Q2_2008_OP16_b					

	Pipe Ovalisation Between PFC1 and PFC2					
	Well Diameter From PFC2 to PFCS_T1					
	Well Diameter From PFC1 to PFCS_T1	PFCS Fluid Resistivity (DRES) 0 (OHMM) 360	Filtered Bubble Count (FBM) 0 (CPS) 500	Well Temperature (WTEP) 215 (DEGF) 230	Well Fluid Density (WFDE) 0 (G/C3) 2	
	PFCS Caliper Y (PFC2) 8 (IN) 3	Filtered Water Holdup (FHM) 0 (----) 1	Avg BUB count (DDFBM) 0 (CPS) 500	Well Pressure (WPRE) 0 (PSIA) 3000	Filtered Auxiliary Spinner 1 (SPI1) –10 (RPS) 10	
Tension (TENS) (LBF) 0 3000	PFCS Caliper X (PFC1) 8 (IN) 3	Avg Holdup (DDFHM) 0 (----) 1	Cable Speed (CS) 0 (F/HR) 2000	Amplified Temperature (WTEP) 0 (DEGF) 2	PFCS Spinner (SPIN) –10 (RPS) 10	

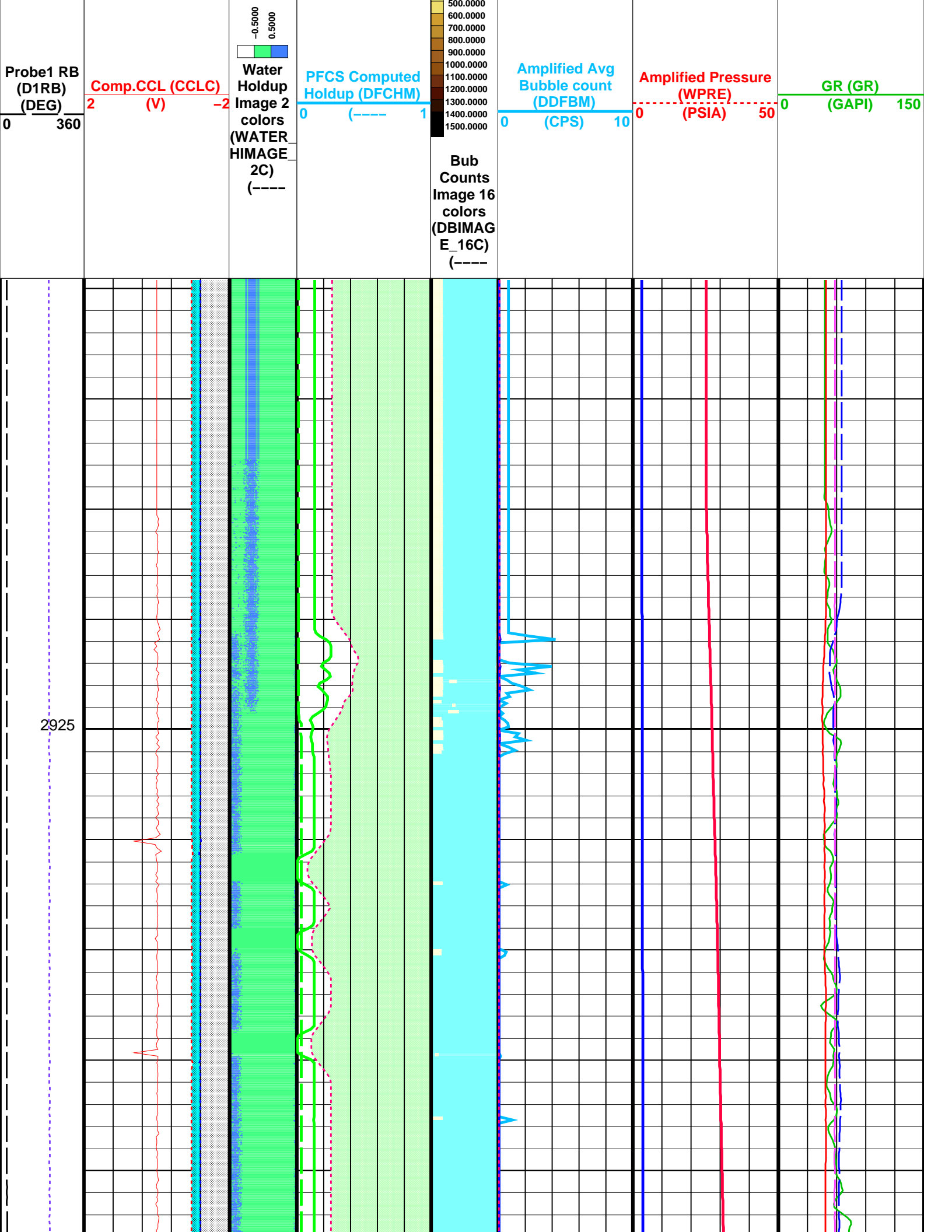
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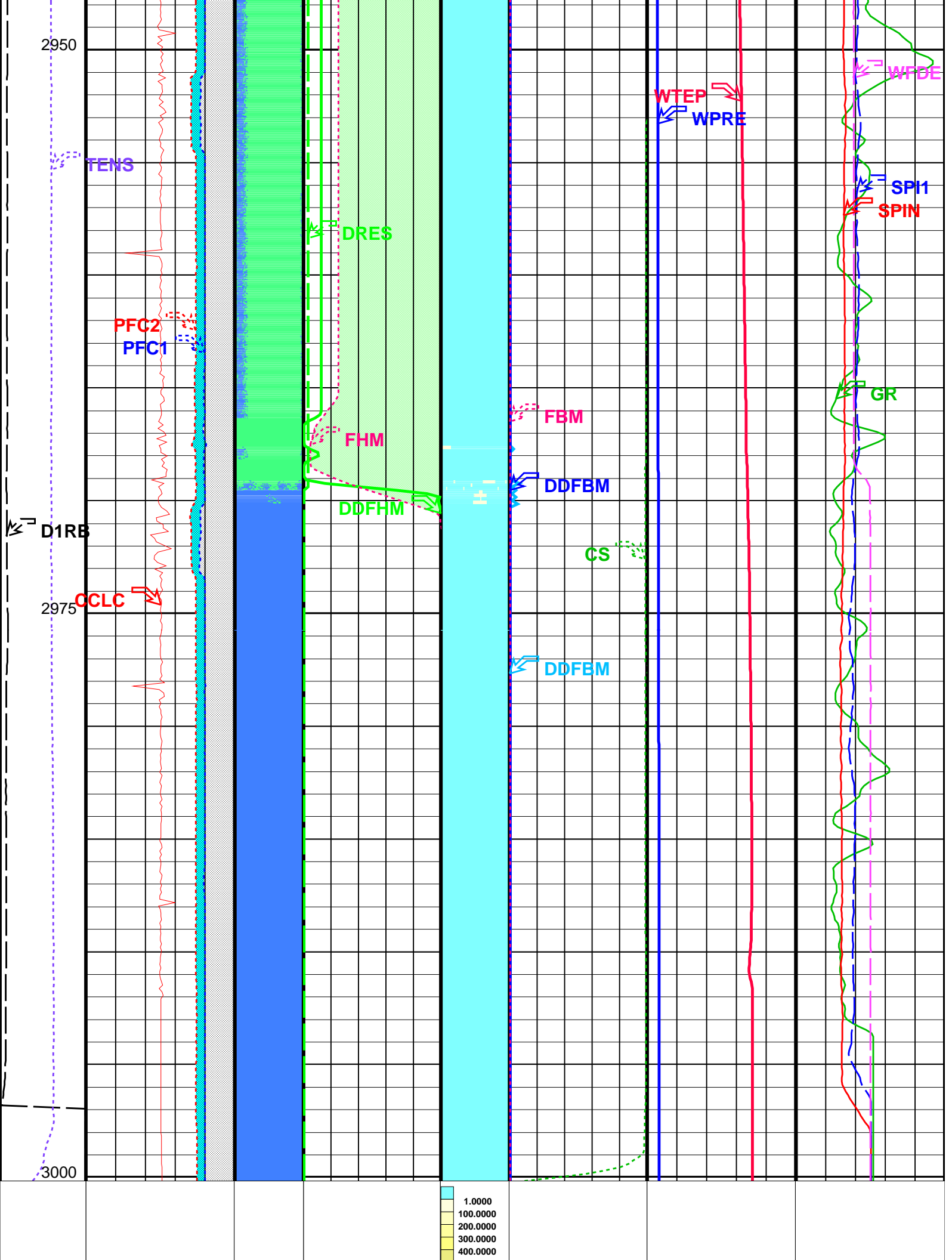
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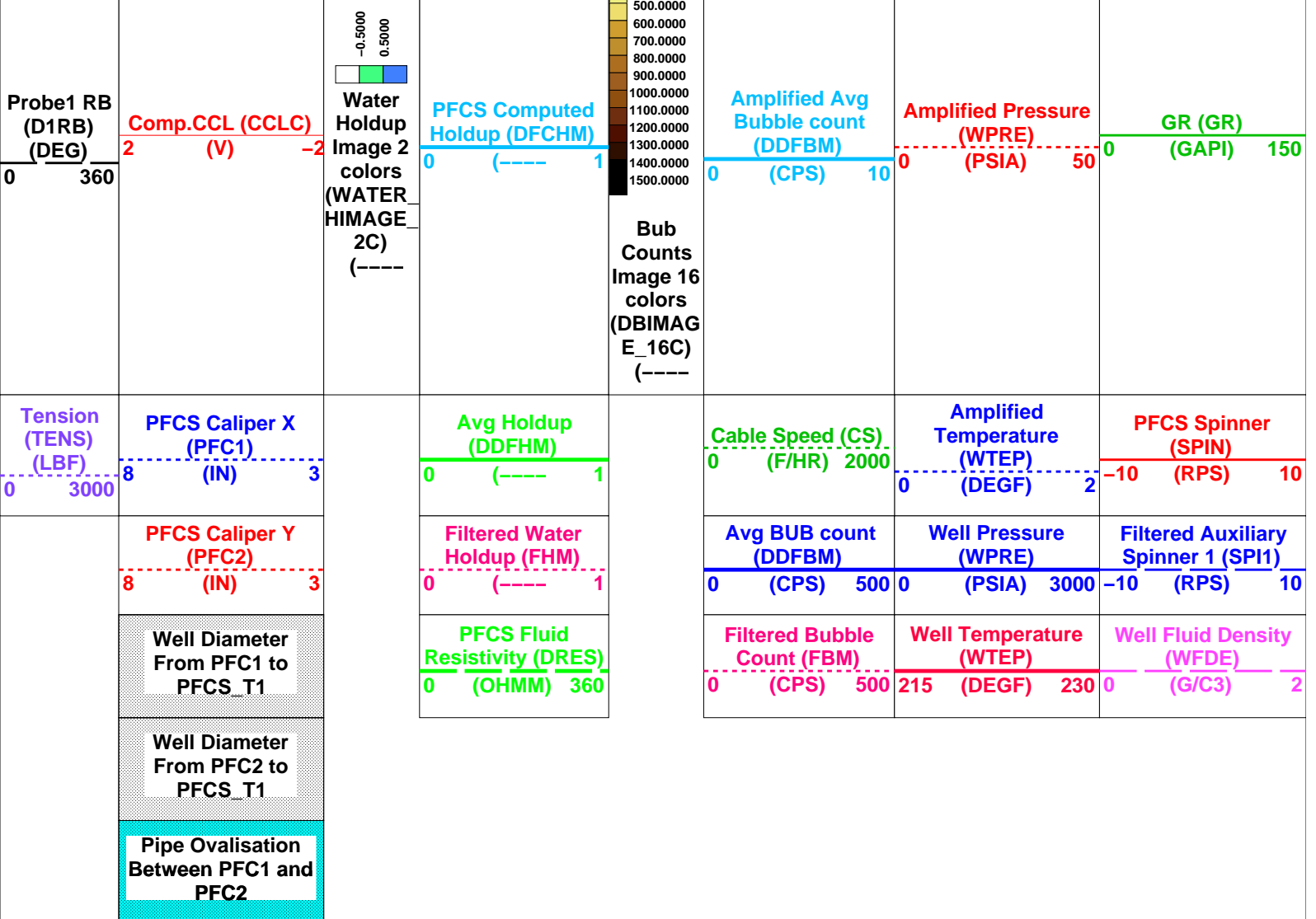
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Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 17-Jan-2009 09:55

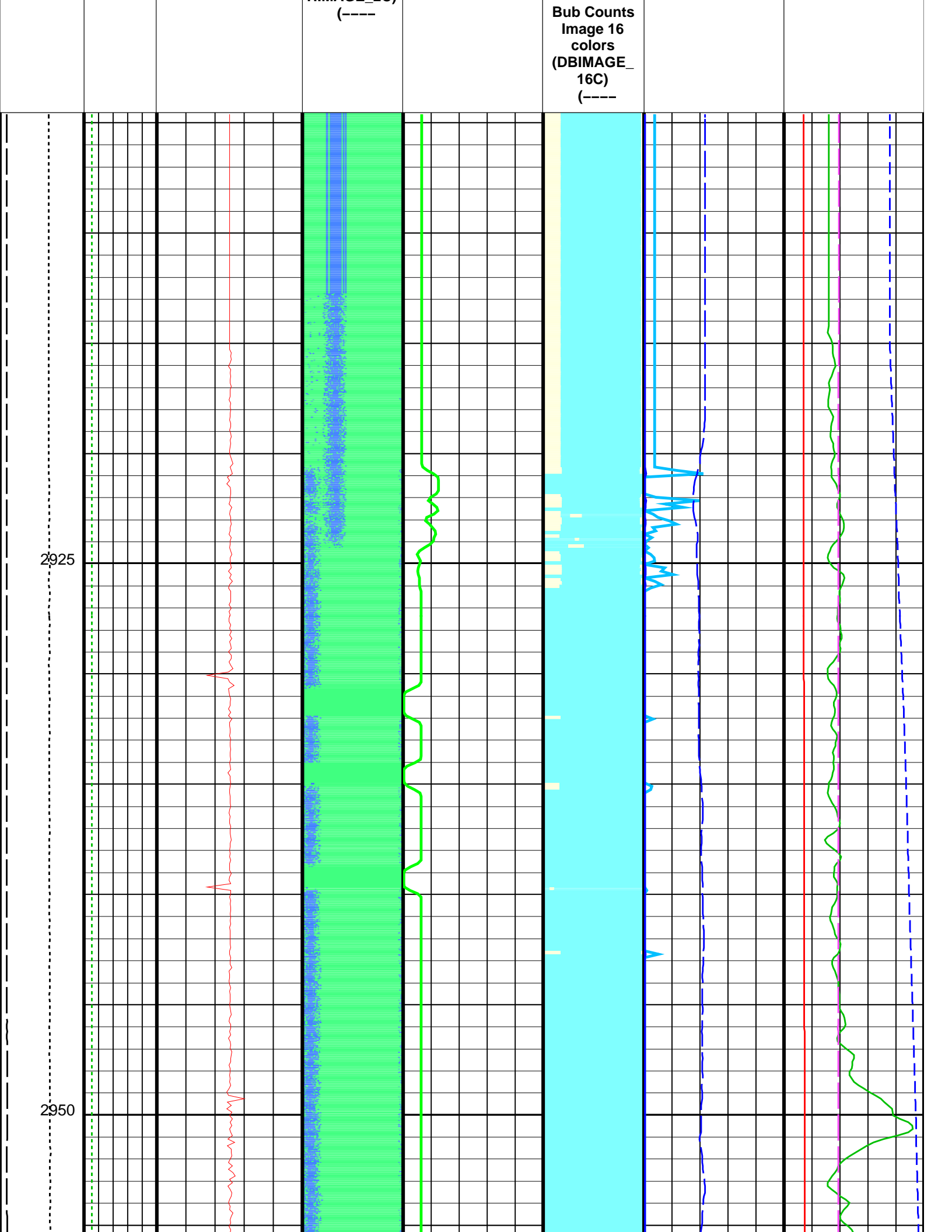
OP System Version: 16C0-147

MCM

PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Parameters

DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	3.958	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	
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
PFGC	PFCS Geometrical coefficient	1200	
PFRE1	Downhole Resistor Probe 1	3000	OHMS
PFRE2	Downhole Resistor Probe 2	3000	OHMS
PFRE3	Downhole Resistor Probe 3	3000	OHMS
PFRE4	Downhole Resistor Probe 4	3000	OHMS
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5	
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_2.5	



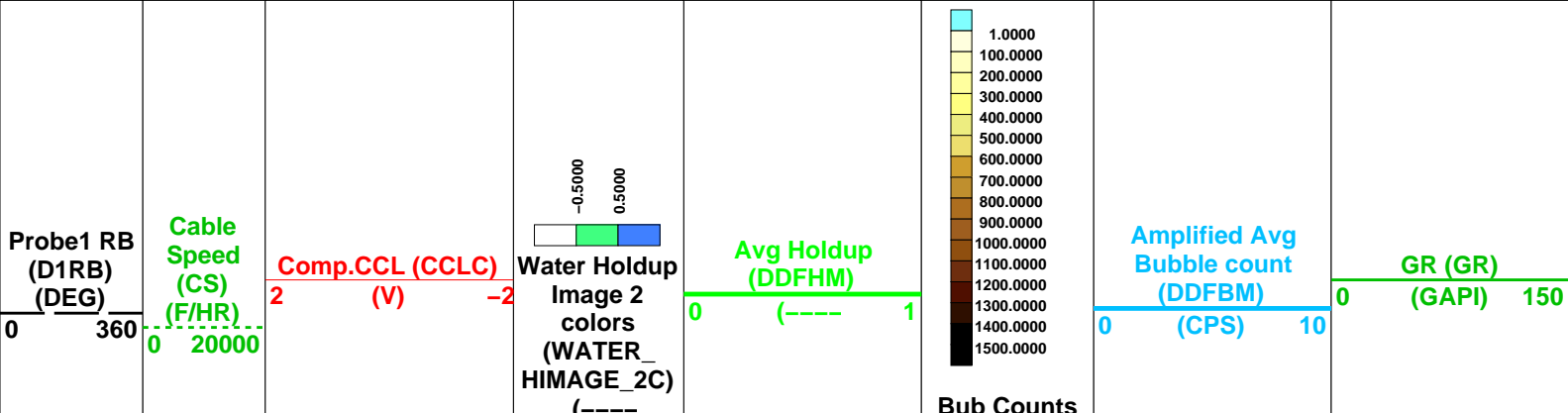
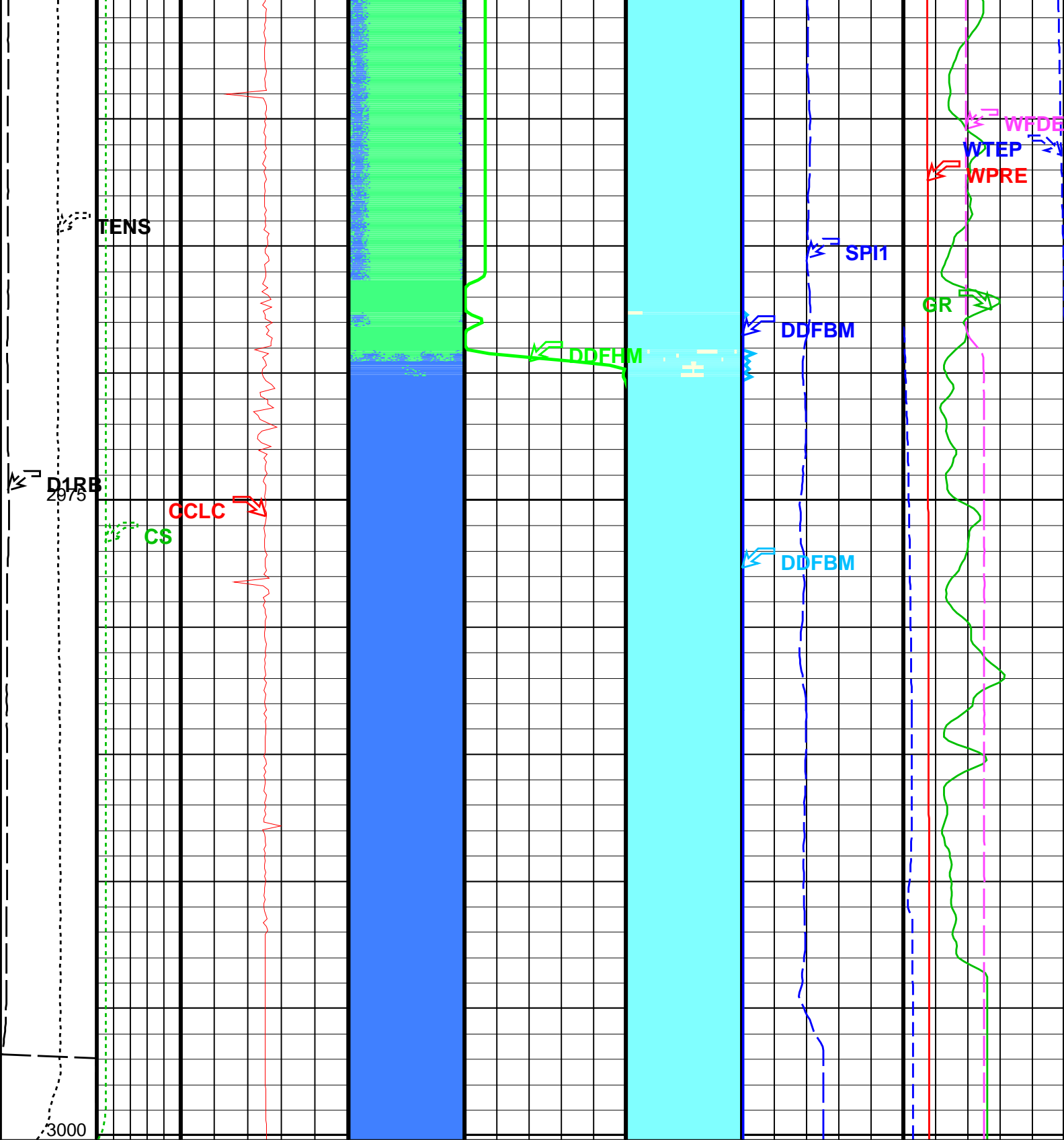


					Image 16 colors (DBIMAGE_16C) (-----)		
Tension (TENS) (LBF)						Avg BUB count (DDFBM)	Well Pressure (WPRE)
0 3000						0 (CPS) 500	0 (PSIA) 2800
						Filtered Auxiliary Spinner 1 (SPI1)	Well Temperature (WTEP)
						-10 (RPS) 10	215 (DEGF) 225
							Well Fluid Density (WFDE)
			0 (G/C3) 2				

Format: DEFT_Image_DL

Vertical Scale: 1:200

Graphics File Created: 17-Jan-2009 09:55

OP System Version: 16C0-147			
MCM			
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Parameters			
DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	3.958	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	
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
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	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	3.958	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: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	3.958	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-B: Production Services Logging Platform			
CSID	Casing Size I.D.	3.958	IN
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	3.958	IN
System and Miscellaneous			
DO	Depth Offset for Playback	-3.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_026LUP	FN:25	PRODUCER	17-Jan-2009 08:48	3003.2 M	2915.7 M
Output DLIS Files						
DEFAULT	FCS_ILS_DEFT_GMS_040PUP	FN:34	PRODUCER	17-Jan-2009 09:55		

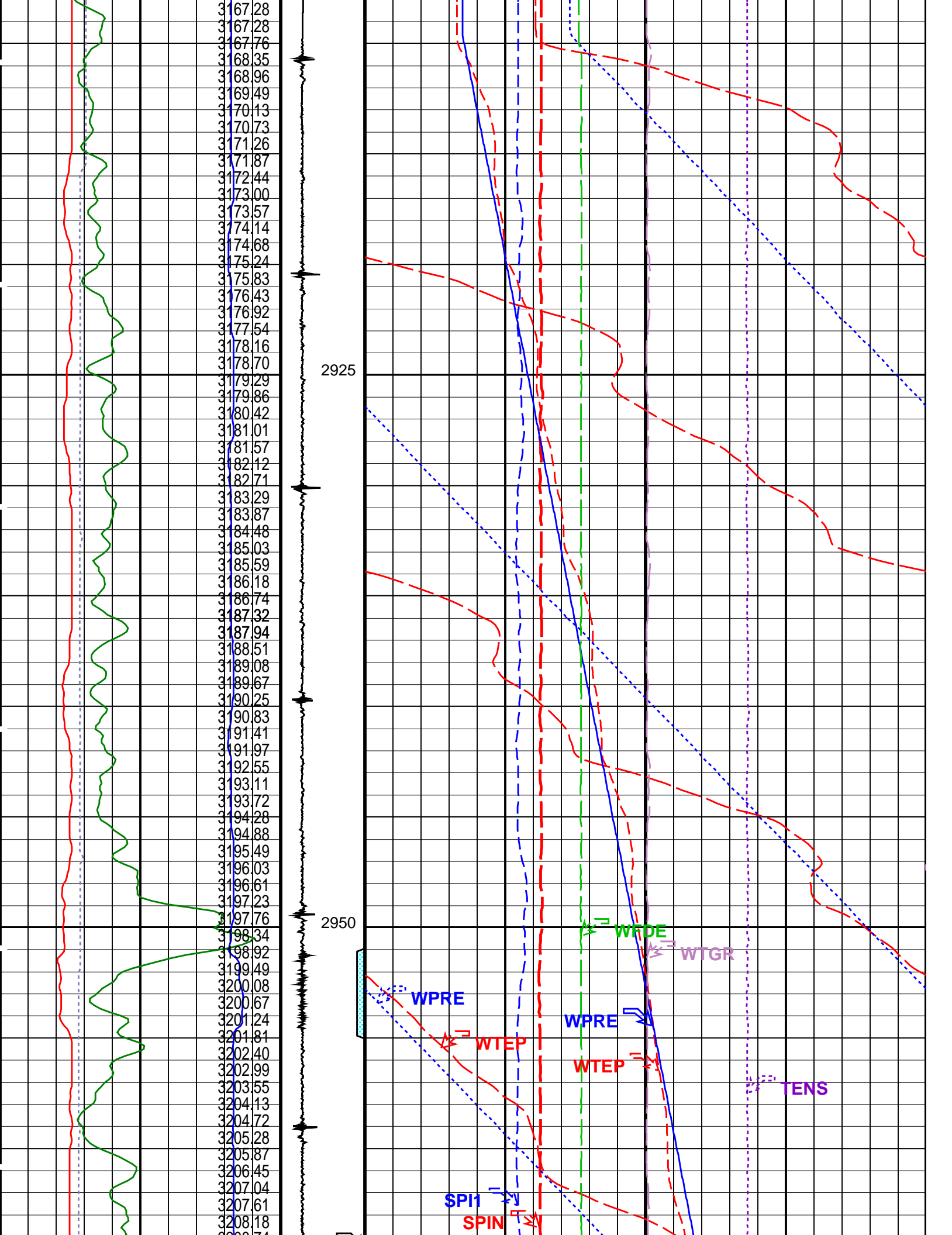


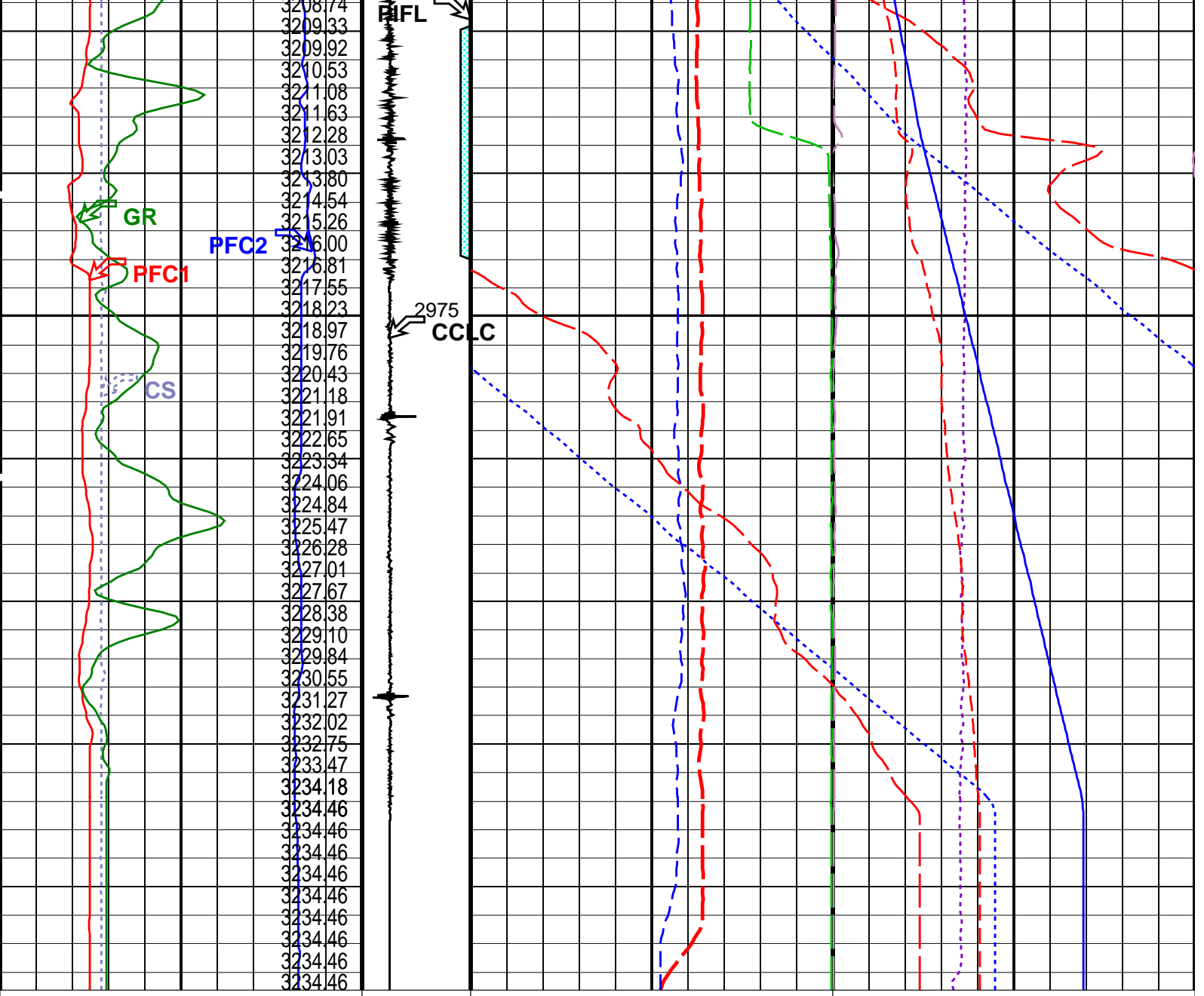
Input DLIS Files

Output DLIS Files

OP System Version: 16C0-147
MCM

[illegible]





Cable Speed (CS) (F/HR)		Computed CCL (CCLC) (V)	Filtered Main Spinner (SPIN) (RPS)		Tension (TENS) (LBF)	
0 7000			-15 15		0 3000	
PFCS X Caliper (PFC1) (IN)		Perfo Zone From PERFO_ CURVE to D3T	Filtered Auxiliary Spinner 1 (SPI1) (RPS)		Well Temperature Gradient (WTGR) (DC/M)	
5 1			-15 15		0 10	
PFCS Y Caliper (PFC2) (IN)		Well Pressure (WPRES) (PSIA)	Well Temperature (WTEP) (DEGF)			
1 5			220 228			
Gamma Ray (GR) (GAPI)			Well Temperature (WTEP) (DEGF)			
0 150			0 1			
			Well Pressure (WPRES) (PSIA)			
			3150 3250			
			Amplified Well Pressure (WPRES) (PSIA)			
			0 20			
			Well Fluid Density (WFDE) (G/C3)			
			0 2			

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1

Vertical Scale: 1:200

Graphics File Created: 17-Jan-2009 09:54

OP System Version: 16C0-147

MCM

PFCs-A

SRPC-3624-Q2_2008_OP16_b

PILS-A

SRPC-3624-Q2_2008_OP16_b

DEFT-C2

SRPC-3624-Q2_2008_OP16_b

PGMC-A

SRPC-3624-Q2_2008_OP16_b

PSPT-B

SRPC-3624-Q2_2008_OP16_b

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	46 DEG
SDCF	Spinner Depth Constant Filter	6
SP11	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	Main Spinner Flowmeter Sonde	PFCs-A_2.5
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_2.5
PGMC-A: 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-B: Production Services Logging Platform		
GDEV	Average Angular Deviation of Borehole from Normal	46 DEG
System and Miscellaneous		
DO	Depth Offset for Playback	-4.5 M
PP	Playback Processing	NORMAL

Input DLIS Files

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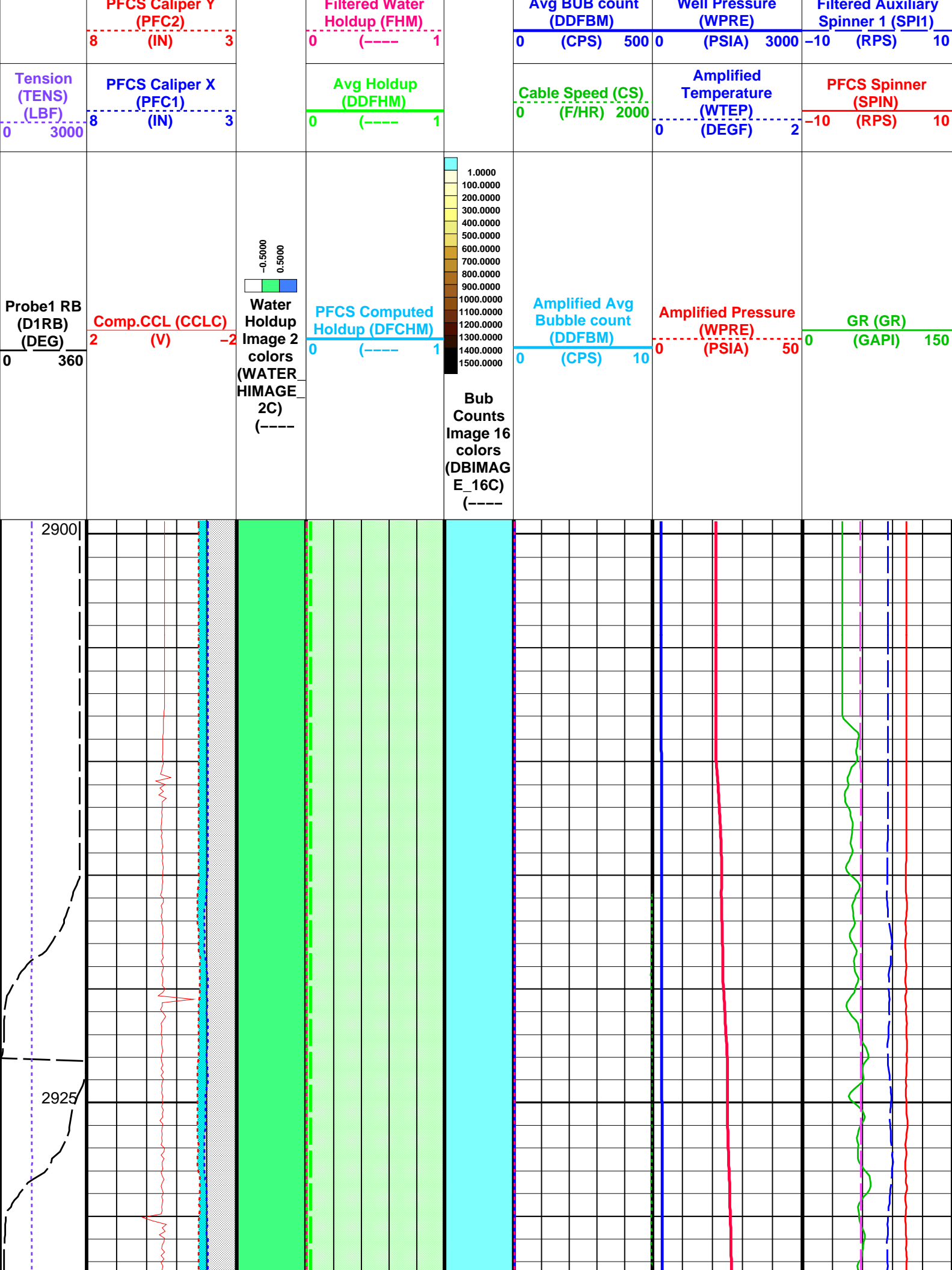
Output DLIS Files

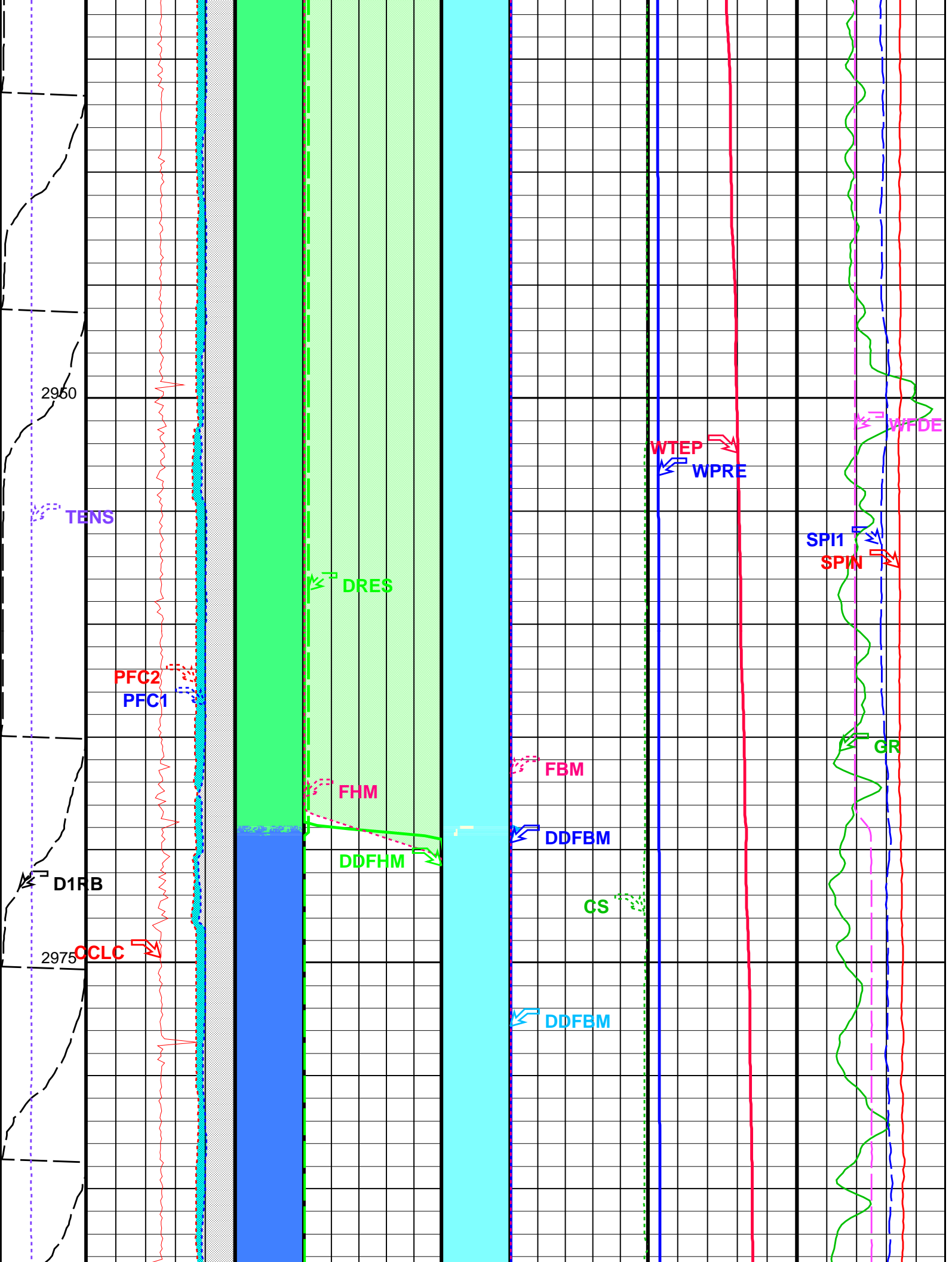
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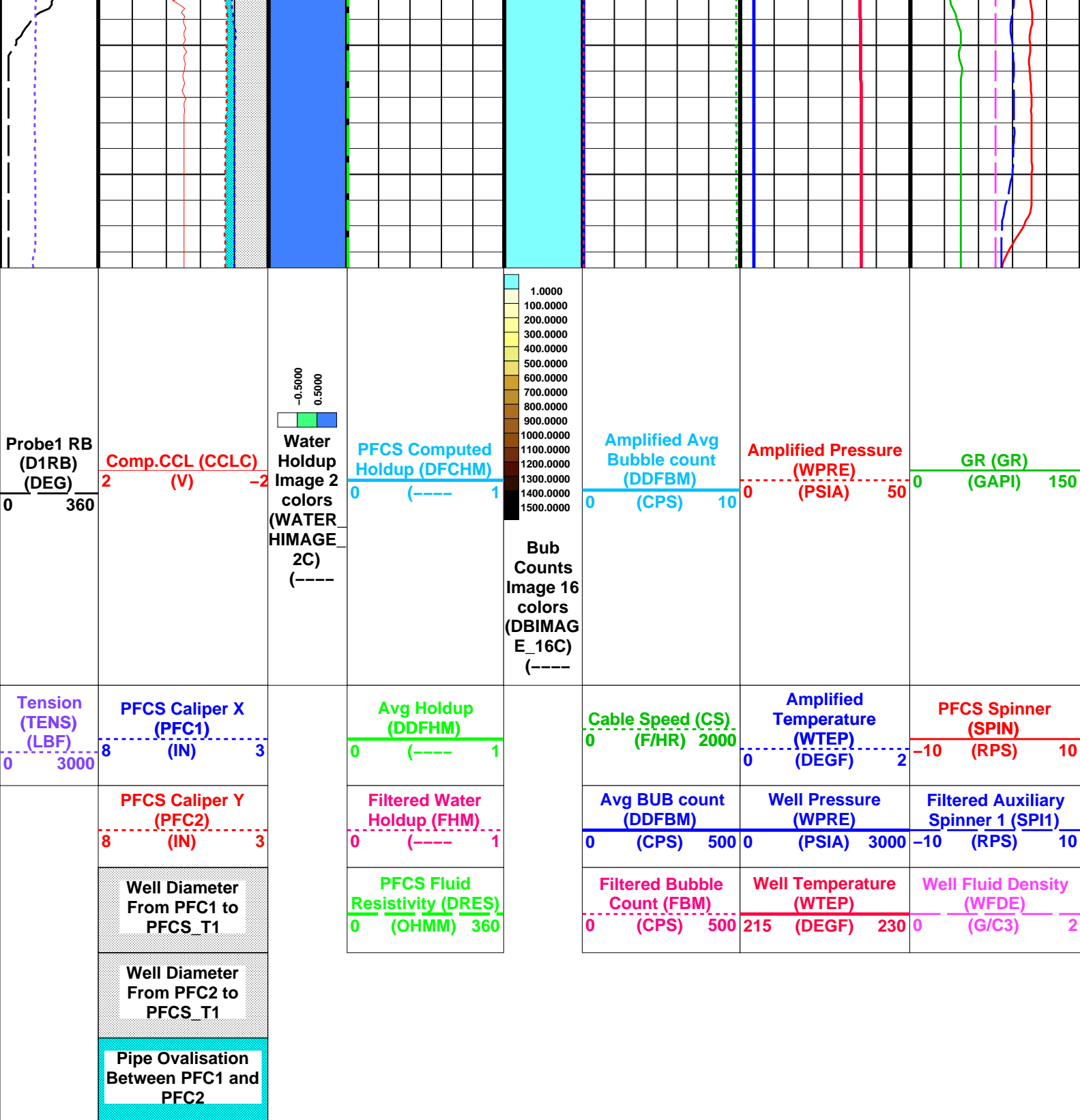
Input DLIS Files					
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Output DLIS Files					
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OP System Version: 16C0-147			
MCM			
PFCs-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

	Pipe Ovalisation Between PFC1 and PFC2				
	Well Diameter From PFC2 to PFCs_T1				
	Well Diameter From PFC1 to PFCs_T1	<div>PFCs Fluid Resistivity (DRES)</div> <div>0 (OHMM) 360</div>	<div>Filtered Bubble Count (FBM)</div> <div>0 (CPS) 500</div>	<div>Well Temperature (WTEP)</div> <div>215 (DEGF) 230</div>	<div>Well Fluid Density (WFDE)</div> <div>0 (G/C3) 2</div>







Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 17-Jan-2009 09:54

OP System Version: 16C0-147

MCM

PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Parameters

DLIS Name	Description	Value
PFCS-A:	PSP Flow and caliper Tool	
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
CSID	Casing Size I.D.	3.958 IN

DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DDFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP	Probes Arm Position	C	
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
PFGC	PFCS Geometrical coefficient	1200	
PFRE1	Downhole Resistor Probe 1	3000	OHMS
PFRE2	Downhole Resistor Probe 2	3000	OHMS
PFRE3	Downhole Resistor Probe 3	3000	OHMS
PFRE4	Downhole Resistor Probe 4	3000	OHMS
SDCF	Spinner Depth Constant Filter	6	
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_2.5	
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_2.5	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	3.958	IN
DDRC	Dual DEFT DELTA RB COMPUTATION	D1RB2-D1RB	
DDRS	Dual DEFT RB Source	D1RB	
DFBD	DEFT Blank Disallowed Probes	NO	
DDFI	DEFT Flip Image	NO	
DFII	DEFT Image Interpolation	YES	
DFIRS	DEFT Image Rotation Selection	TOP_MIDDLE	
DFPP2	Probes Arm Position (2nd tool)	D	
PFGC	PFCS Geometrical coefficient	1200	
PGMC-A: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	3.958	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-B: Production Services Logging Platform			
CSID	Casing Size I.D.	3.958	IN
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	3.958	IN
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
DO	Depth Offset for Playback	-4.5	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	Flip_FCS_ILS_DEFT_034LUP	PRODUCER	17-Jan-2009 09:49	3003.2 M	2912.1 M
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Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_039PUP	FN:33	PRODUCER	17-Jan-2009 09:54
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Input DLIS Files

DEFAULT	Flip_FCS_ILS_DEFT_034LUP	PRODUCER	17-Jan-2009 09:49	3003.2 M	2912.1 M
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Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_039PUP	FN:33	PRODUCER	17-Jan-2009 09:54	2998.6 M	2899.3 M
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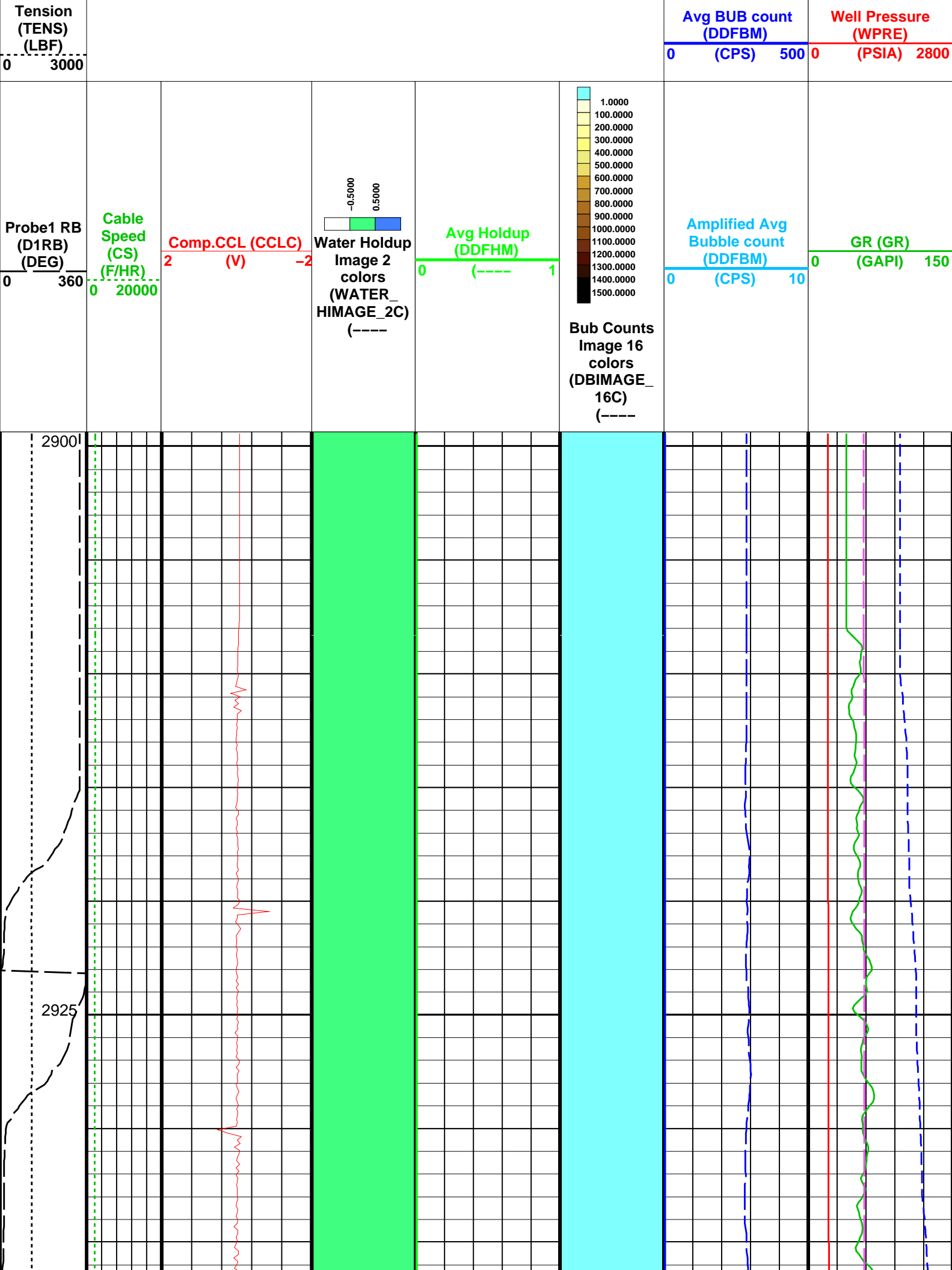
OP System Version: 16C0-147

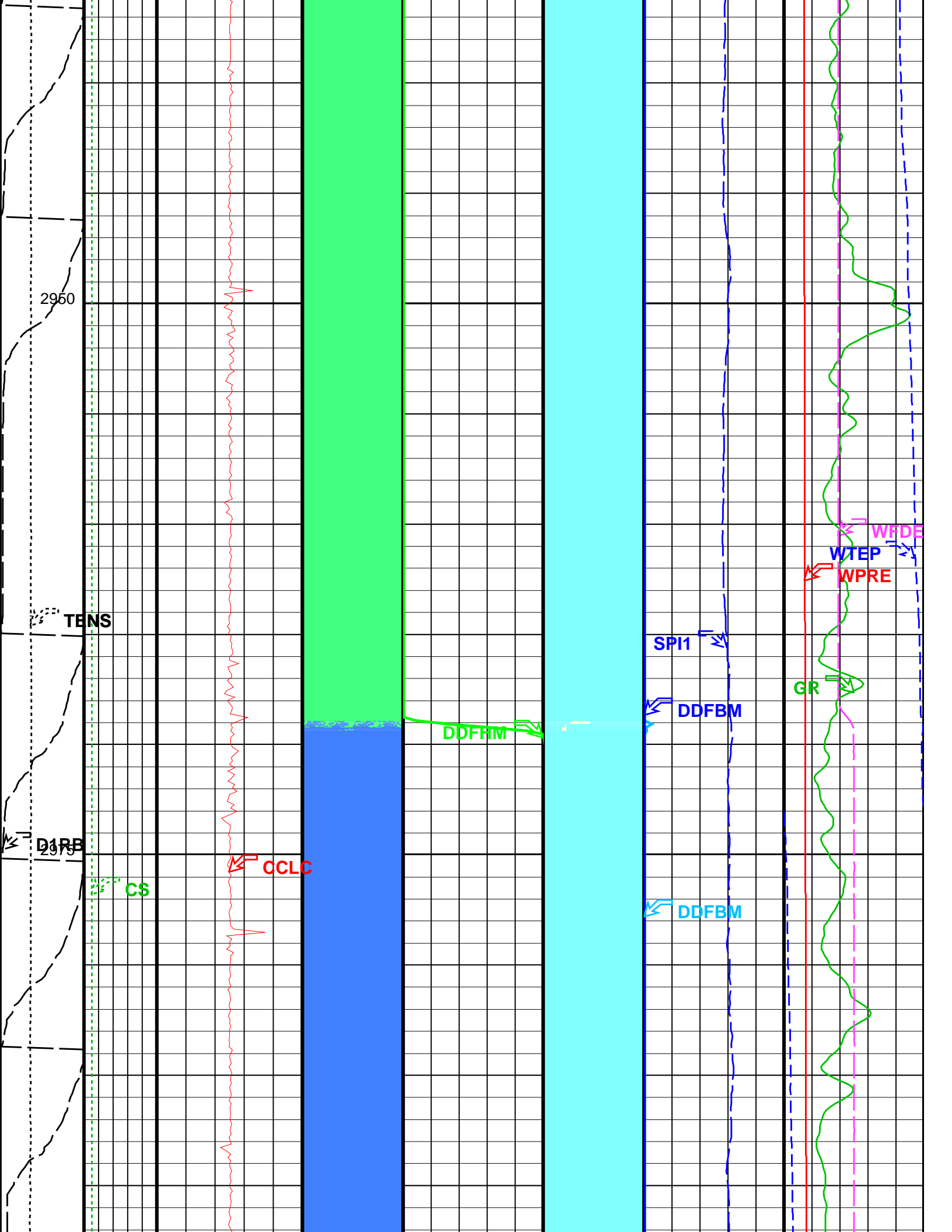
MCM

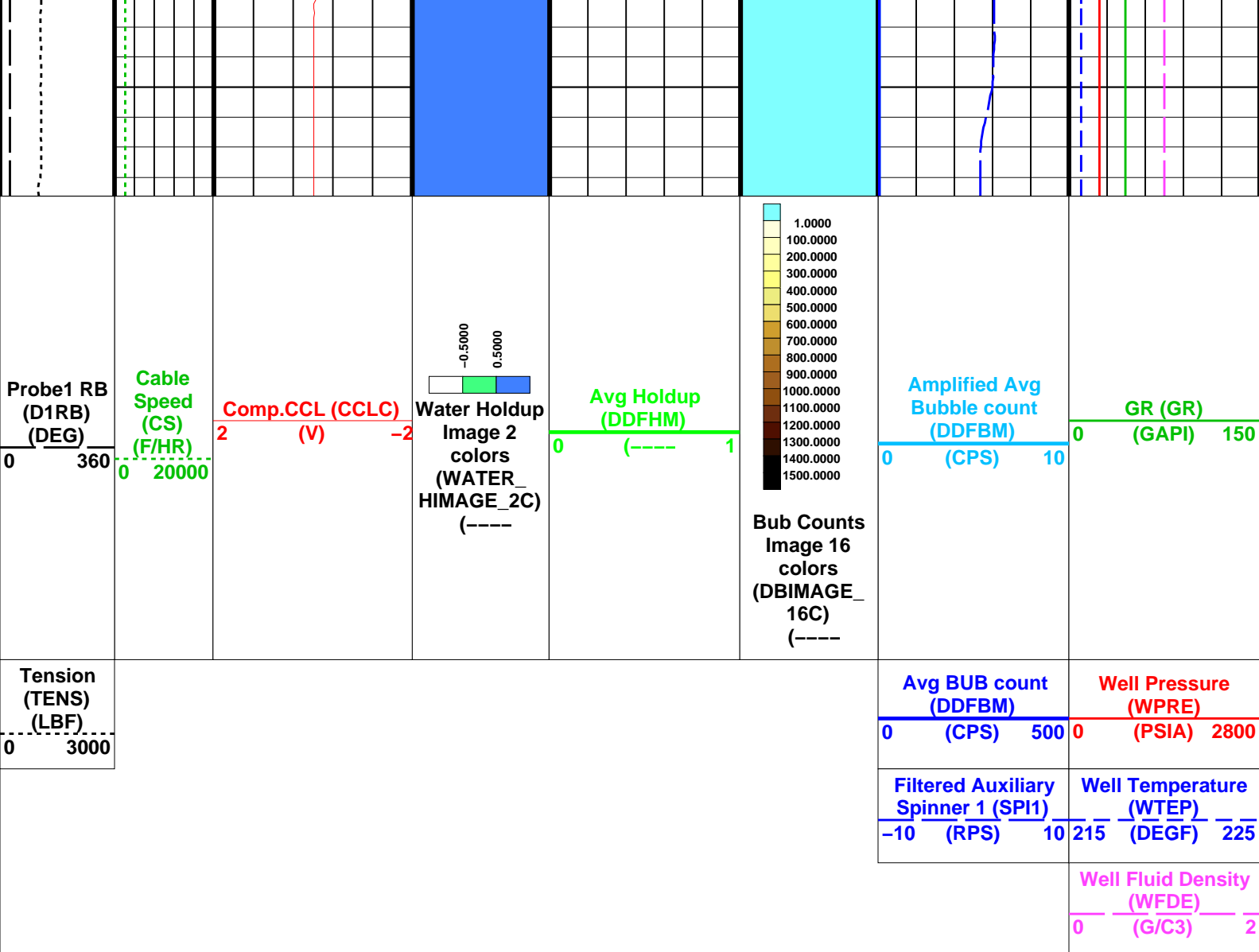
PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Well Fluid Density
(WFDE)
0 (G/C3) 2

Filtered Auxiliary	Well Temperature
Spinner 1 (SPI1)	(WTEP)
-10 (RPS) 10	215 (DEGF) 225







Format: DEFT_Image_DL Vertical Scale: 1:200 Graphics File Created: 17-Jan-2009 09:54

OP System Version: 16C0-147

MCM

PFCS-A	SRPC-3624-Q2_2008_OP16_b	PILS-A	SRPC-3624-Q2_2008_OP16_b
DEFT-C2	SRPC-3624-Q2_2008_OP16_b	PGMC-A	SRPC-3624-Q2_2008_OP16_b
PSPT-B	SRPC-3624-Q2_2008_OP16_b		

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
CSID	Casing Size I.D.	3.958 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
GDEV	Average Angular Deviation of Borehole from Normal	46 DEG
SDCF	Spinner Depth Constant Filter	6
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
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
DEFT-C2: DEFT_C Tool		
CSID	Casing Size I.D.	3.958 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: PSP Gradiomanometer Measurement Module			
CSID	Casing Size I.D.	3.958	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-B: Production Services Logging Platform			
CSID	Casing Size I.D.	3.958	IN
GDEV	Average Angular Deviation of Borehole from Normal	46	DEG
BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	3.958	IN
System and Miscellaneous			
DO	Depth Offset for Playback	-4.5	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	Flip_FCS_ILS_DEFT_034LUP	PRODUCER	17-Jan-2009 09:49	3003.2 M	2912.1 M
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Output DLIS Files

DEFAULT	FCS_ILS_DEFT_GMS_039PUP	FN:33	PRODUCER	17-Jan-2009 09:54
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Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **A3A**

Field: **Halibut**

Rig: **Crane/Prod 4**

Country: **Australia**

Gamma Ray / Pressure / Temperature
Dual DEFT / Inline and Fullbore
Spinner Survey