

Company: Ezzo Australia Ltd

Well: CBA F-1a

Field: Fortescue

Rig: Prod 4 / Crane

Country: Australia

Pressure – Temperature
Spinner – Gamma Ray
Survey

Prod 4 / Crane
Fortescue
Gippsland
CBA F-1a
Esso Australia Ltd

LOCATION	
Gippsland	Elev.: K.B. 32.4 m
Basin	G.L. -78 m
Bass Strait	D.F. 32.4 m
Permanent Datum:	Mean Sea Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing

State: Victoria	Max. Well Deviation 61 deg	Longitude 148°18'28.3"E	Latitude 38°27'03.5"S
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Logging Date 9-Mar-2006

Run Number 1

Depth Driller 3589 m

Schlumberger Depth 3411 m

Bottom Log Interval 3411 m

Top Log Interval 3343 m

Casing Fluid Type Production Fluids

Salinity

Density

Fluid Level

BIT/CASING/TUBING STRING

Bit Size 8.500 in

From 3134 m

To 3514 m

Casing/Tubing Size 5.500 in

Weight 17 lbm/ft

Grade K-55

From 3134 m

To 3514 m

Maximum Recorded Temperatures 107 degC

Logger On Bottom 9-Mar-2006 14:00

Unit Number 1 AUSL

Recorded By Joel Hogan

Witnessed By Barrie White

Run 1

Run 2

Run

Oil Density
Water Salinity
Gas Gravity

Bo

Bw

1/Bg

Bubble Point Pressure

Bubble Point Temperature

Solution GOR

Maximum Deviation

CEMENTING DATA

Primary/Squeeze

Casing String No

Lead Cement Type

Volume

Density

Water Loss

Additives

Tail Cement Type

Volume

Density

Water Loss

Additives

Expected Cement Top

Logging Date

Run Number

Depth Driller

Schlumberger Depth

Bottom Log Interval

Top Log Interval

Casing Fluid Type

Salinity

Density

Fluid Level

BIT/CASING/TUBING STRING

Bit Size

From

To

Casing/Tubing Size

Weight

Grade

From

To

Maximum Recorded Temperatures

Logger On Bottom

Unit Number

Recorded By

Witnessed By

DEPTH SUMMARY LISTING

Depth System Equipment

Date Created: 09-Mar-2006 9:42:23

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-C	Type:	2-32ZT
Serial Number:	797	Serial Number:	1037	Serial Number:	4207
Calibration Date:	01-May-2005	Calibration Date:	15-Feb-2006	Length:	5002.07 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1174	Conveyance Method:	Wireline
Calibration Cable Type:	2-32ZT	Calibration Gain:	1.38	Rig Type:	Offshore_Fixed
Wheel Correction 1:	-3	Calibration Offset:	448.00		
Wheel Correction 2:	2				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	ExxonMobil composite solar log
Reference Log Run Number:	Unknown
Reference Log Date:	26-Aug-1999

Depth Control Remarks

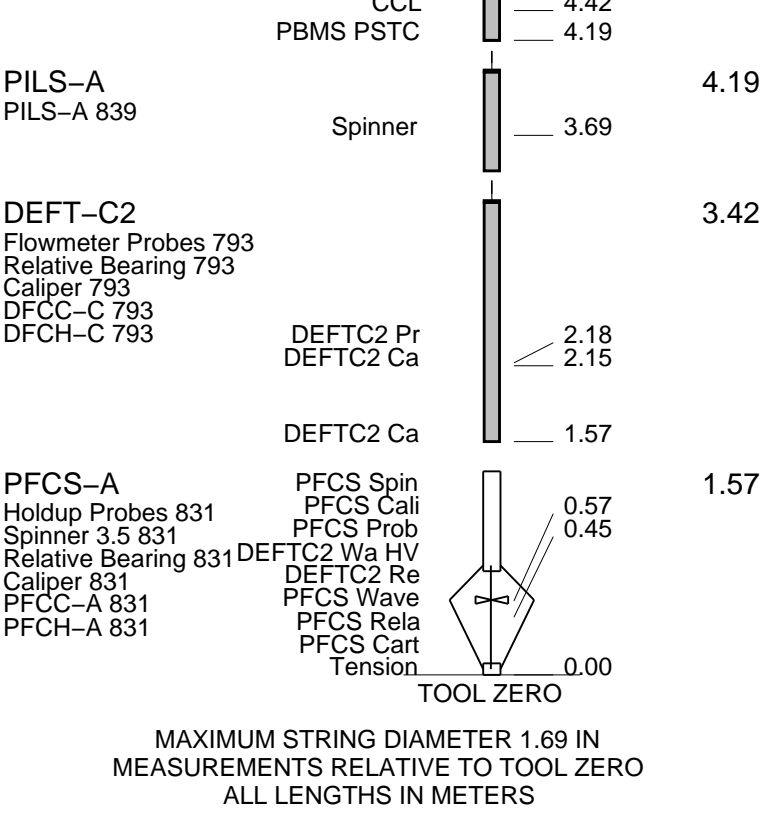
1. Correlated to ExxonMobil solar composite log provided by client
2. Used IDW as primary depth control
3. Used Z-Chart as secondary depth control
- 4.
- 5.
- 6.

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 OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to Solar composite log dated 26–Aug–1999	
Provided by client.	
Maximum well deviation 61deg at 731.6m MDKB.	
Run in hole to HUD and conduct two static surveys over interval	
HUD to 3350m MDKB.	
SBHT–224deg F, SBHP–3159psi	
Flow well and conduct two flowing surveys over interval	

HUD to 3350m MDKB.					
FBHT-225deg F, FBHP-3162psi					
Schlumberger Crew: Jake Annear, Andy Hall					
Performed By Schlumberger					
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 13C0-300			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
WITM-A					
DOWNHOLE EQUIPMENT					
AH-SWBS					
AH-SWBS 731					
AH-SWBS					
AH-SWBS 761					
AH-SWBS					
AH-SWBS 762					
AH-SWBS					
AH-SWBS 763					
MH-32					
MH-32 726					
EQF-43					
EQF-43					

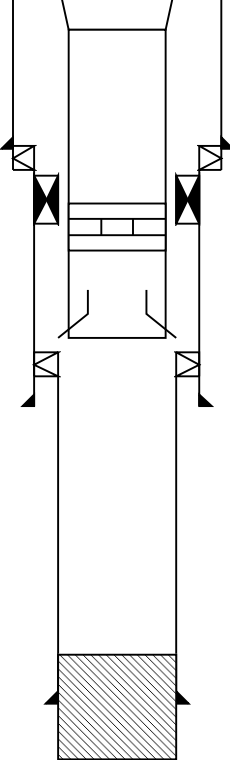


Client: Esso Australia Ltd
Well: CBA F-1a
Field: Cobia
State: Victoria
Country: Australia

Rig Name:
Reference Datum: Kelly Bushing
Elevation: 34.0 m

Drawing Date: 3/2/2006
API #:

Production String	(in)		(m)	Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	13.375	4.930	18.4		18.0	13.375	9.675	Casing String Liner Hanger
Tubing	5.500		18.4		18.0	13.375	9.675	
Shutin Valve	5.500		449.1					
Gas Lift Mandrel	5.500		1207.0		948.0	13.375		Casing Shoe
Gas Lift Mandrel	5.500		1552.3					
Nipple	5.500		1570.6					
Crossover Joint	5.500	4.500	3101.0					

Tubing	4.500		3101.2		3000.0	9.675		Casing Shoe
Packer	7.675	5.500	3113.2		3002.0	7.675		Casing String
Nipple	4.500		3126.5		3002.0	9.675	7.675	Liner Hanger
Bell Nipple Guide	5.500		3136.0					
					3134.7	5.500		Casing String
					3286.0	7.675	5.500	Casing String
					3453.0			PBTD
					3539.2	5.500		Casing Shoe



Flowing Up Log
Pass 2 – 1800 ft/hr

MAXIS Field Log

Output DLIS Files

DEFAULT FCS_DEFT_ILS_PSP_019LUP FN:18 PRODUCER 09-Mar-2006 14:22 3411.5 M 3343.7 M

OP System Version: 13C0-300
MCM

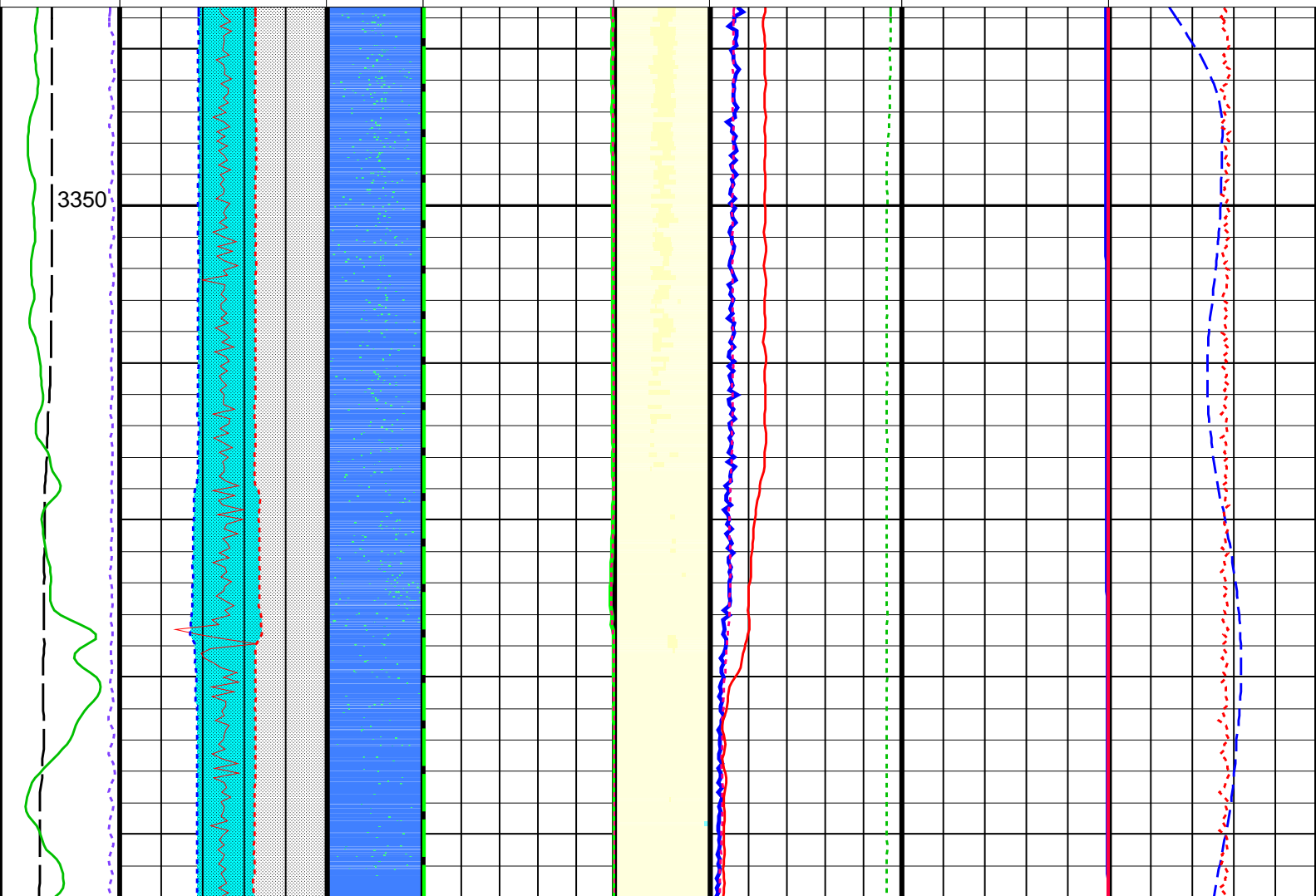
PFCs-A 13C0-300 DEFT-C2 13C0-300
PILS-A 13C0-300 PSPT-A/B 13C0-300

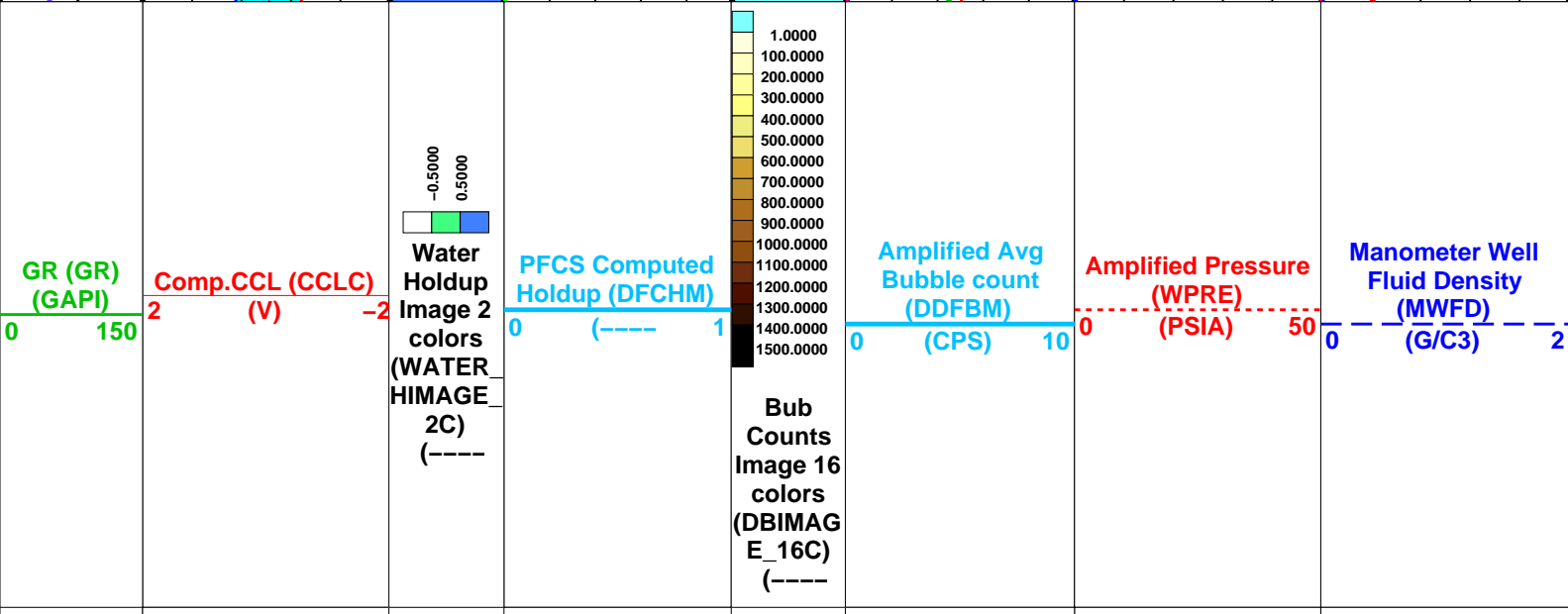
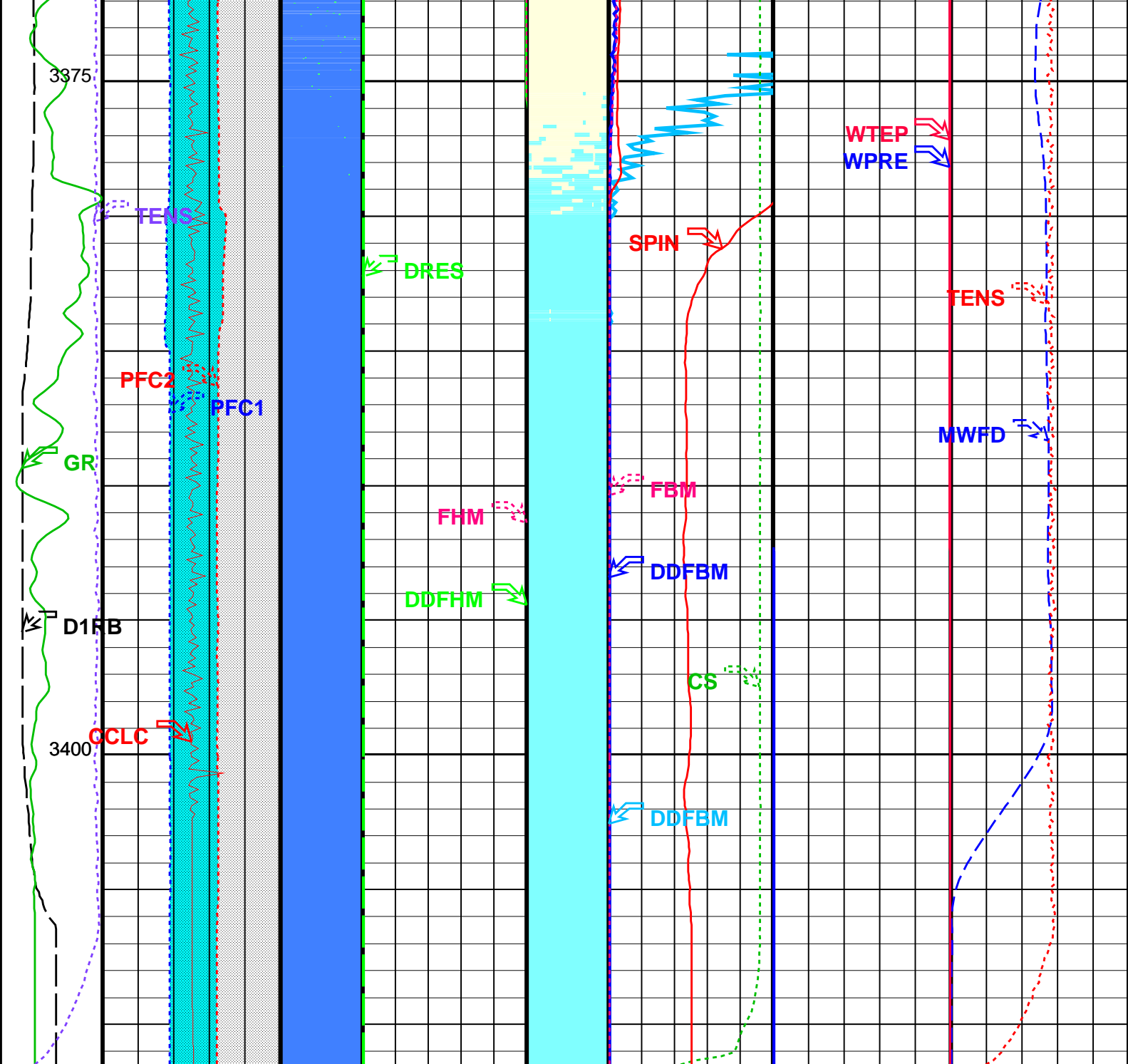
Pipe Ovalisation
Between PFC1 and
PFC2

Well Diameter
From PFC2 to
PFCs T1

PFCs Spinner
(SPIN)
-10 (RPS) 10

	Well Diameter From PFC1 to PFC5_T1		PFC5 Fluid Resistivity (DRES) 0 (OHMM) 360		Filtered Bubble Count (FBM) 0 (CPS) 500	Well Temperature (WTEP) 0 (DEGF) 225	
Tension (TENS) (LBF) 0 3000	PFC5 Caliper Y (PFC2) 0 (IN) 8		Filtered Water Holdup (FHM) 0 (----) 1		Avg BUB count (DDFBM) 0 (CPS) 500	Well Pressure (WPRE) 0 (PSIA) 3000	
Probe1 RB (D1RB) (DEG) 0 360	PFC5 Caliper X (PFC1) 8 (IN) 0		Avg Holdup (DDFHM) 0 (----) 1		Cable Speed (CS) 0 (F/HR) 2000	Amplified Temperature (WTEP) 0 (DEGF) 2	Tension (TENS) (LBF) 5000
GR (GR) (GAPI) 0 150	Comp.CCL (CCLC) 2 (V) -2	Water Holdup Image 2 colors (WATER HIMAGE 2C) (----)	PFC5 Computed Holdup (DFCHM) 0 (----) 1	<div> <div> 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 </div> <div> Bub Counts Image 16 colors (DBIMAG E_16C) (----) </div> </div>	Amplified Avg Bubble count (DDFBM) 0 (CPS) 10	Amplified Pressure (WPRE) 0 (PSIA) 50	Manometer Well Fluid Density (MWFD) (G/C3) 2





Probe1 RB (D1RB) (DEG)	PFC5 Caliper X (PFC1)	Avg Holdup (DDFHM)	Cable Speed (CS) (F/HR)	Amplified Temperature (WTEP)	Tension (TENS)
0 360	8 (IN) 0	0 (----) 1	0 2000	0 (DEGF) 2	0 (LBF) 5000
Tension (TENS) (LBF)	PFC5 Caliper Y (PFC2)	Filtered Water Holdup (FHM)	Avg BUB count (DDFBM)	Well Pressure (WPRE)	
0 3000	0 (IN) 8	0 (----) 1	0 (CPS) 500	0 (PSIA) 3000	
	Well Diameter From PFC1 to PFC5_T1	PFC5 Fluid Resistivity (DRES)	Filtered Bubble Count (FBM)	Well Temperature (WTEP)	
		0 (OHMM) 360	0 (CPS) 500	0 (DEGF) 225	
	Well Diameter From PFC2 to PFC5_T1		PFC5 Spinner (SPIN)		
			-10 (RPS) 10		
	Pipe Ovalisation Between PFC1 and PFC2				

Format: PFCS_Image_DL		Vertical Scale: 1:200		Graphics File Created: 09-Mar-2006 14:23	
OP System Version: 13C0-300					
MCM					
PFCS-A	13C0-300	DEFT-C2	13C0-300		
PILS-A	13C0-300	PSPT-A/B	13C0-300		
Parameters					
DLIS Name		Description		Value	
PFCS-A: PSP Flow and caliper Tool					
AMOD	Spinner Filter Averaging Mode		LINEAR_AVERAGE		
CSID	Casing Size I.D.		4.892	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		42	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		
SPIN	Main Spinner Flowmeter Sonde		PFCS-A_3.5		
DEFT-C2: DEFT_C Tool					
CSID	Casing Size I.D.		4.892	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		
PFGC	PFCS Geometrical coefficient		1200		
PILS-A: PSP In Line Spinner Flowmeter					
AMOD	Spinner Filter Averaging Mode		LINEAR_AVERAGE		
SDCF	Spinner Depth Constant Filter		6		
SPIN	Main Spinner Flowmeter Sonde		PFCS-A_3.5		
PSPT-A/B: Production Services Logging Platform					
CSID	Casing Size I.D.		4.892	IN	
GDEV	Average Angular Deviation of Borehole from Normal		42	DEG	
BORDYN: BorDyn (Well Test Validation)					
CSID	Casing Size I.D.		4.892	IN	
Output DLIS Files					
DEFAULT	FCS_DEFT_ILS_PSP_019LUP	FN:18	PRODUCER	09-Mar-2006 14:22	

Output DLIS Files

DEFAULT

FCS_DEFT_ILS_PSP_018LUP

FN:17

PRODUCER

09-Mar-2006 14:08

3411.2 M

3343.4 M

OP System Version: 13C0-300

MCM

PFCs-A

13C0-300

DEFT-C2

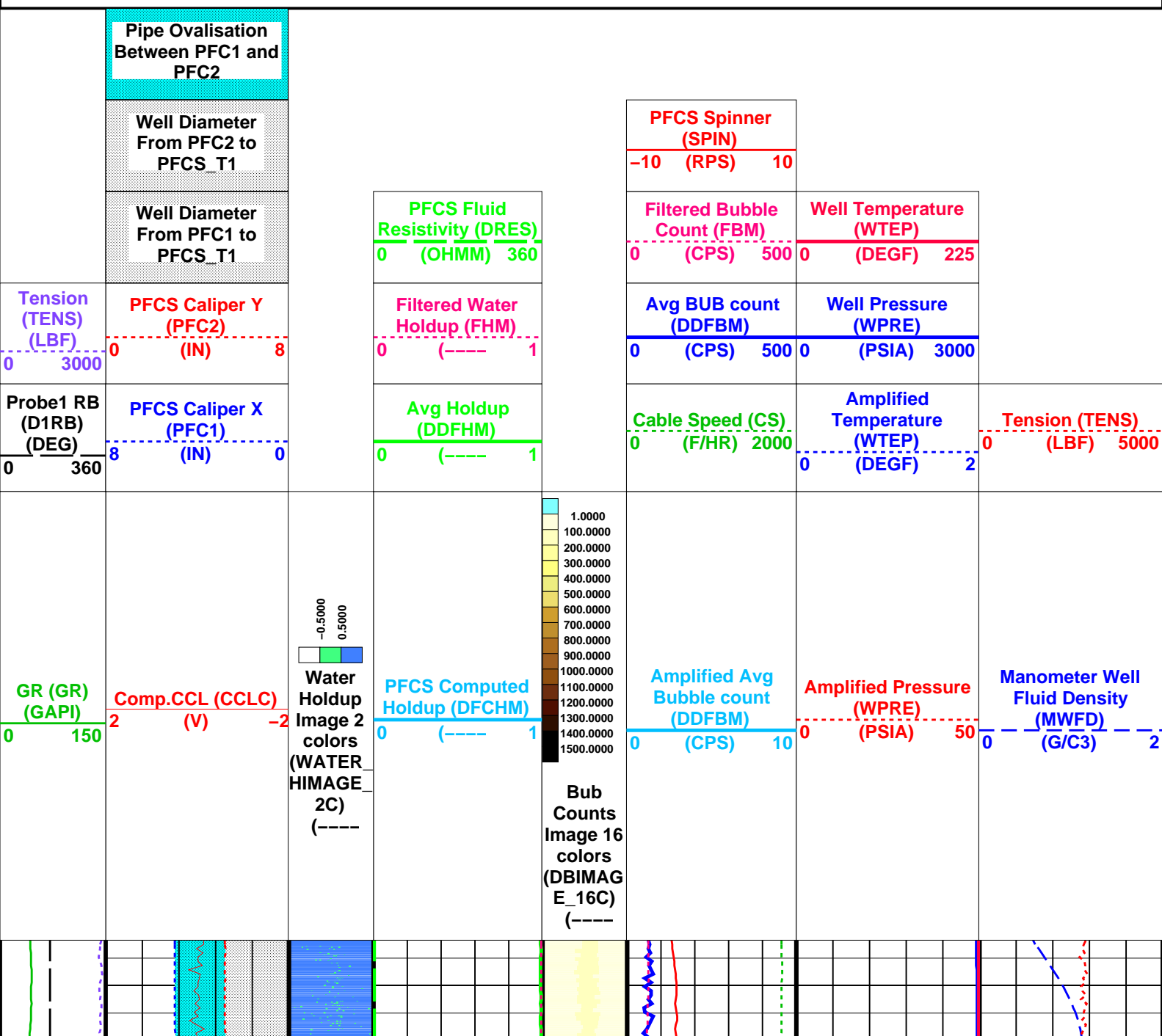
13C0-300

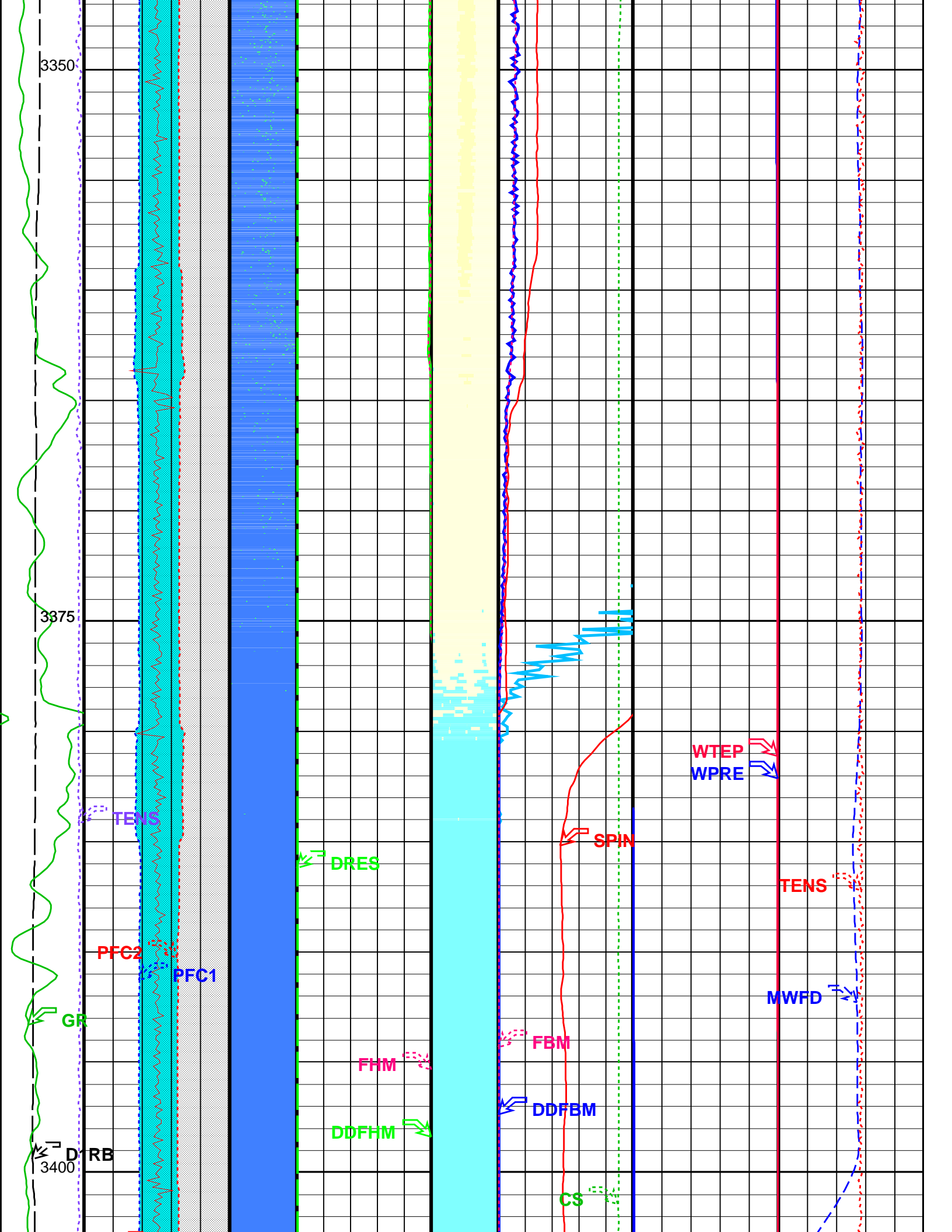
PILS-A

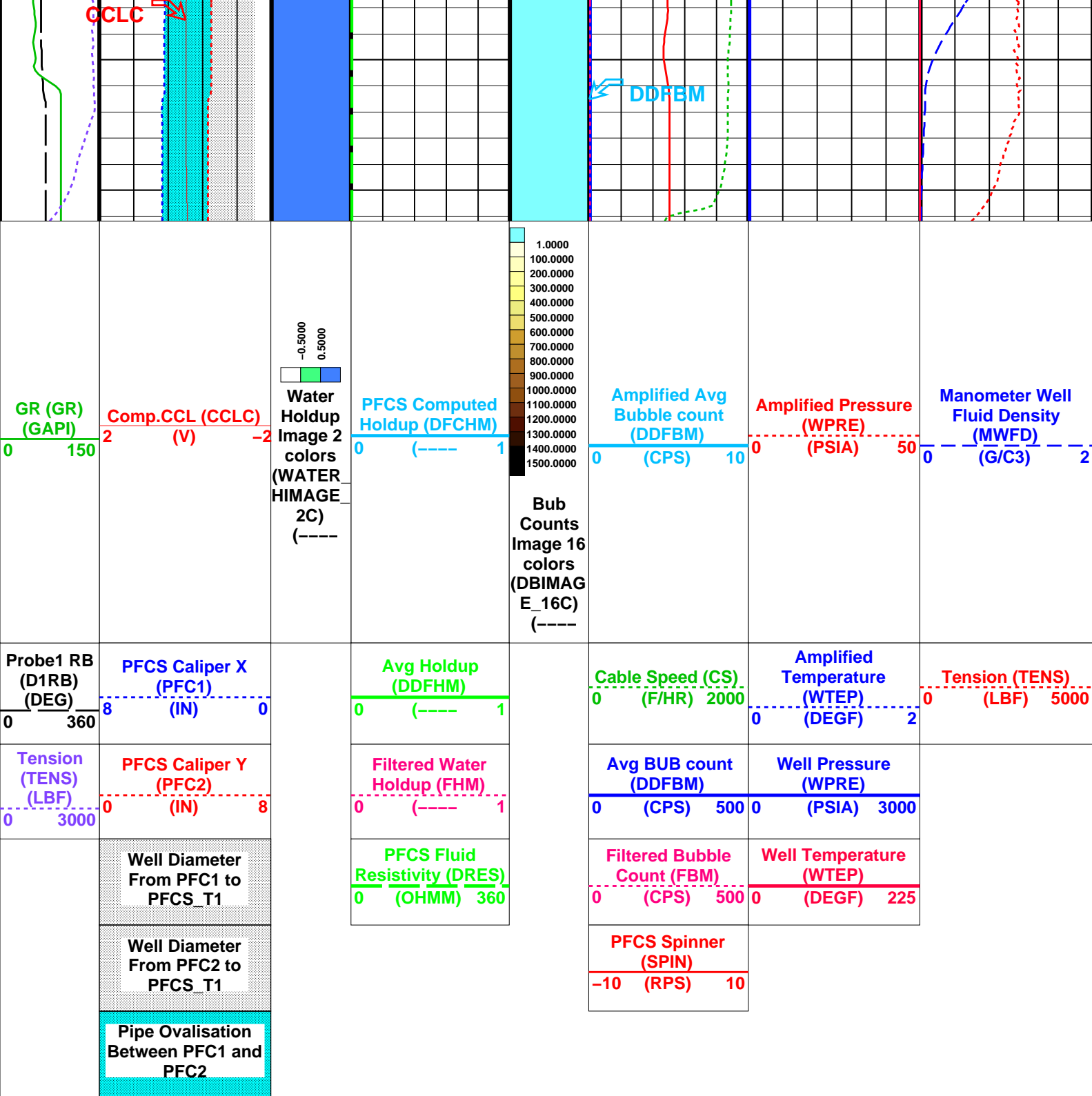
13C0-300

PSPT-A/B

13C0-300







Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 09-Mar-2006 14:08

OP System Version: 13C0-300

MCM

PFCS-A 13C0-300 DEFT-C2 13C0-300
PILS-A 13C0-300 PSPT-A/B 13C0-300

Parameters

DLIS Name	Description	Value
PFCS-A:	PSP Flow and caliper Tool	
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
CSID	Casing Size I.D.	4.892 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	42	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	
SPIN	Main Spinner Flowmeter Sonde	PFCs-A_3.5	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	4.892	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	
PFGC	PFCs Geometrical coefficient	1200	
PILS-A: PSP In Line Spinner Flowmeter			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
SDCF	Spinner Depth Constant Filter	6	
SPIN	Main Spinner Flowmeter Sonde	PFCs-A_3.5	
PSPT-A/B: Production Services Logging Platform			
CSID	Casing Size I.D.	4.892	IN
GDEV	Average Angular Deviation of Borehole from Normal	42	DEG
BORDYN: BorDyn (Well Test Validation)			
CSID	Casing Size I.D.	4.892	IN

Output DLIS Files

DEFAULT FCS_DEFT_ILS_PSP_018LUP FN:17 PRODUCER 09-Mar-2006 14:08

Schlumberger

Static Up Log Pass 2 – 1800 ft/hr

MAXIS Field Log

Output DLIS Files

DEFAULT FCS_DEFT_ILS_PSP_016LUP FN:15 PRODUCER 09-Mar-2006 09:17 3411.0 M 3345.5 M

OP System Version: 13C0-300

MCM

PFCs-A	13C0-300	DEFT-C2	13C0-300
PILS-A	13C0-300	PSPT-A/B	13C0-300

Pipe Ovalisation
Between PFC1 and
PFC2

Well Diameter
From PFC2 to
PFCs_T1

Well Diameter
From PFC1 to
PFCs_T1

Tension
(TENS)
(LBF)

PFCs Caliper Y
(PFC2)

PFCs Fluid
Resistivity (DRES)
0 (OHMM) 360

Filtered Water
Holdup (FHM)

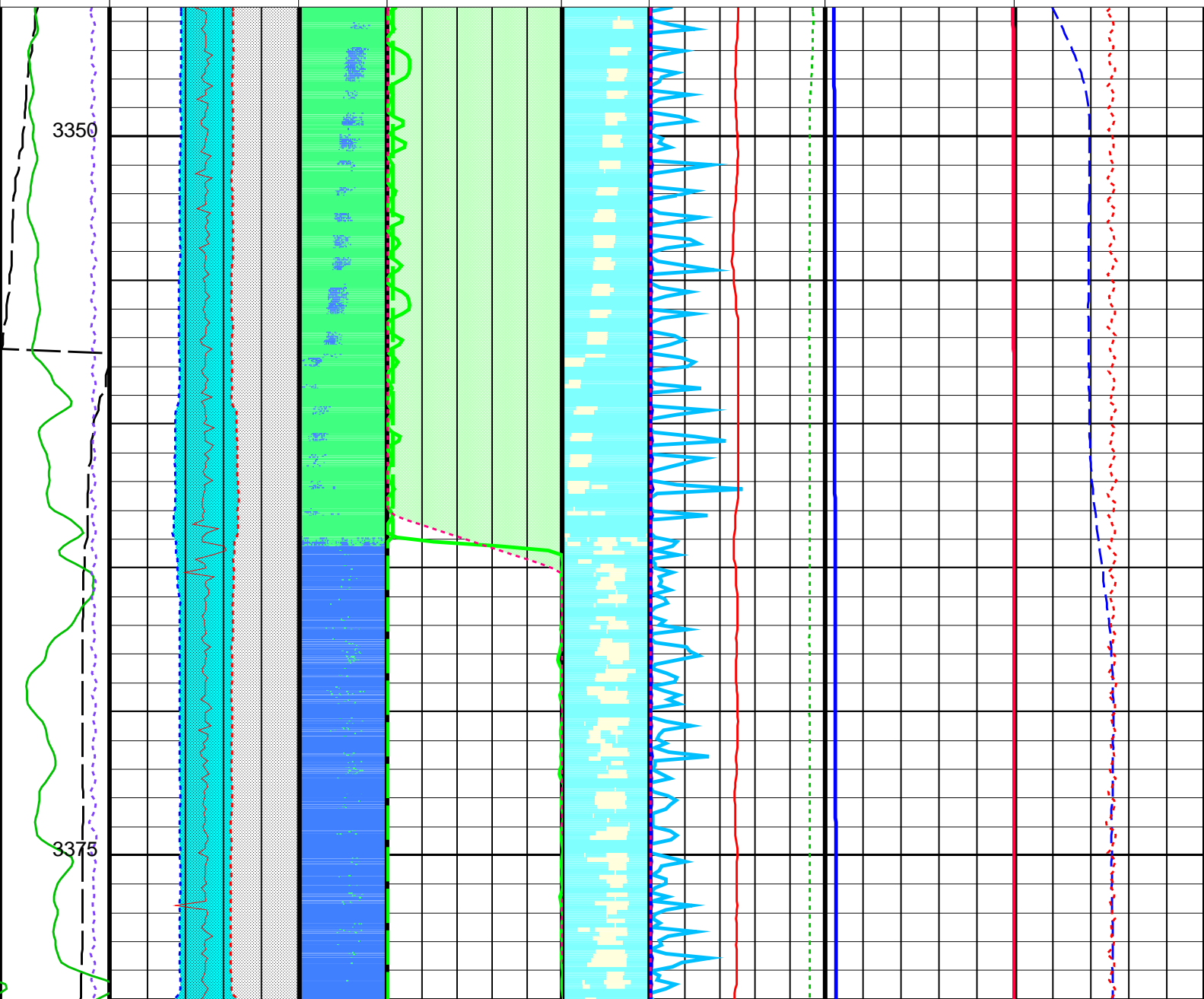
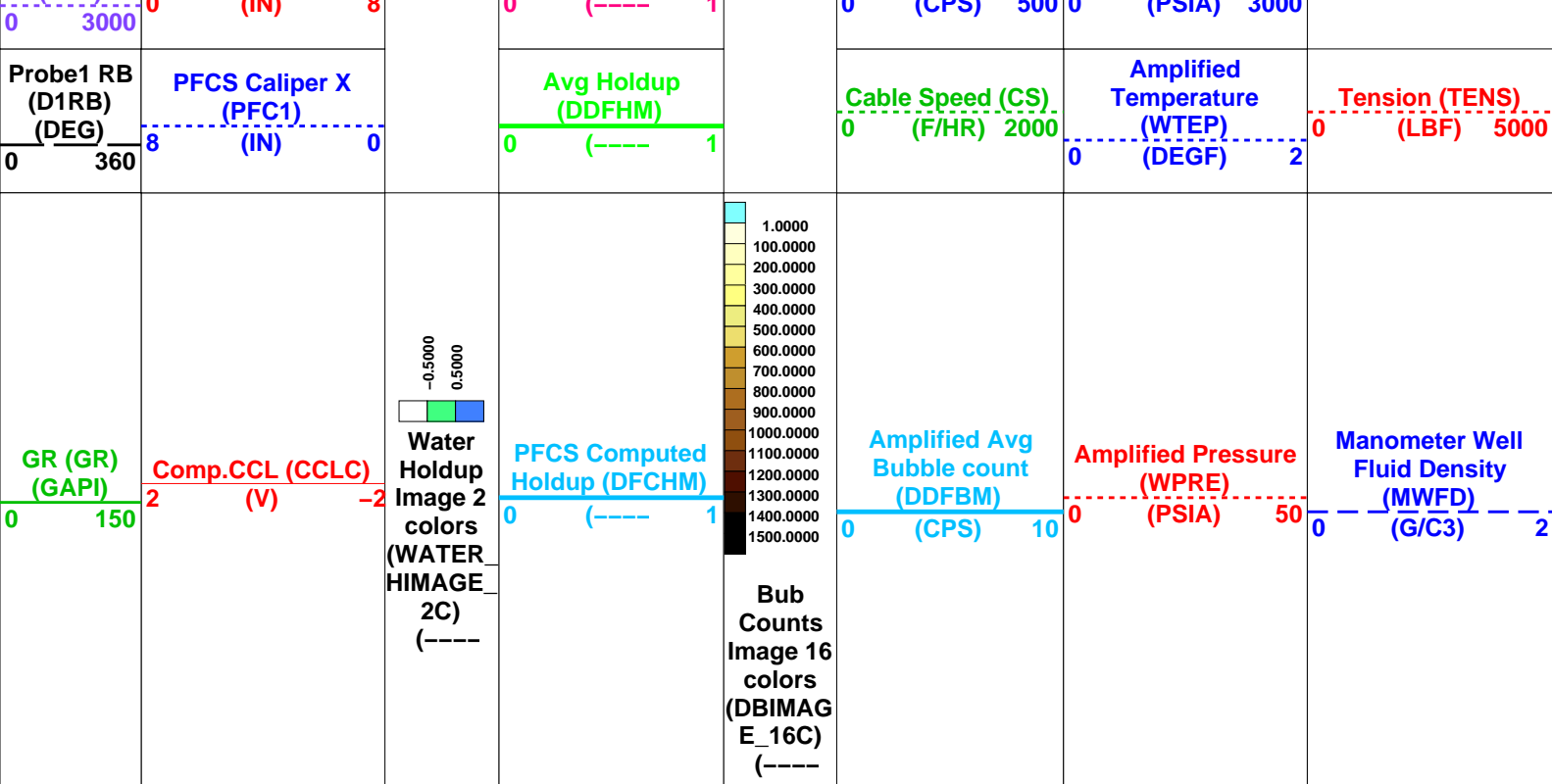
PFCs Spinner
(SPIN)
-10 (RPS) 10

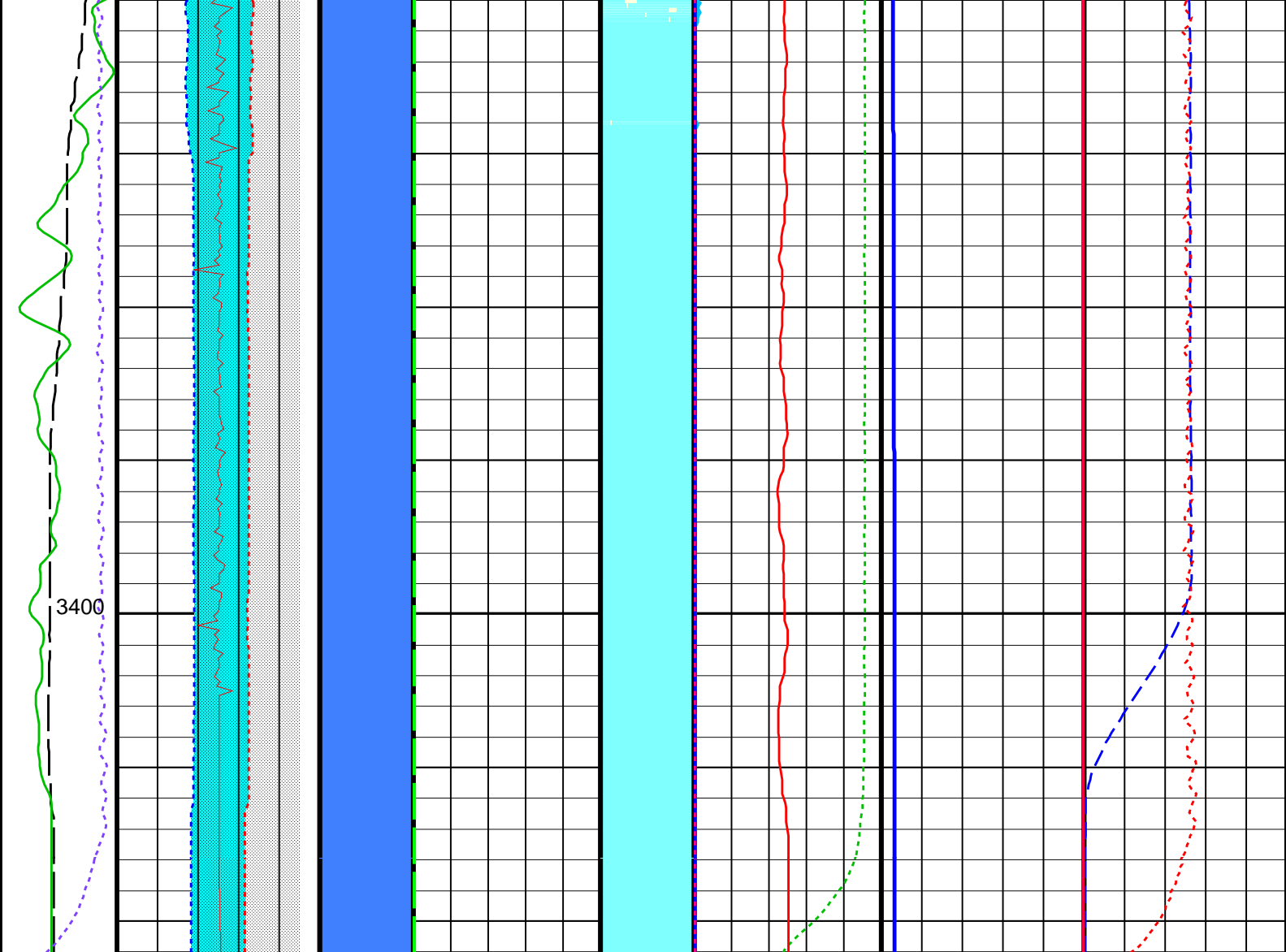
Filtered Bubble
Count (FBM)
0 (CPS) 500

Avg BUB count
(DDFBM)
0 (CPS) 500

Well Temperature
(WTEP)
0 (DEGF) 225

Well Pressure
(WPRE)





<div>GR (GR) (GAPI)</div> <div>0150</div>	<div>Comp.CCL (CCLC) (V)</div> <div>2-----2</div>	<div><div>-0.50000.5000</div><div>Water Holdup Image 2 colors (WATER HIMAGE 2C) (----)</div></div>	<div><div>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</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>010 (CPS)</div>	<div>Amplified Pressure (WPRE) (PSIA)</div> <div>0-----50</div>	<div>Manometer Well Fluid Density (MWFD) (G/C3)</div> <div>0-----2</div>
<div>Probe1 RB (D1RB) (DEG)</div> <div>0360</div>	<div>PFCS Caliper X (PFC1) (IN)</div> <div>8-----0</div>			<div>Avg Holdup (DDFHM)</div> <div>0-----1</div>	<div>Cable Speed (CS) (F/HR) 2000</div> <div>0-----2000</div>	<div>Amplified Temperature (WTEP) (DEGF)</div> <div>0-----2</div>	<div>Tension (TENS) (LBF)</div> <div>0-----5000</div>
<div>Tension (TENS) (LBF)</div> <div>03000</div>	<div>PFCS Caliper Y (PFC2) (IN)</div> <div>0-----8</div>		<div>Filtered Water Holdup (FHM)</div> <div>0-----1</div>	<div>Avg BUB count (DDFBM)</div> <div>0500 (CPS)</div>	<div>Well Pressure (WPRE)</div> <div>03000 (PSIA)</div>		
	<div>Well Diameter</div>		<div>PFCS Fluid</div>		<div>Filtered Bubble</div>	<div>Well Temperature</div>	

From PFC1 to PFC2_T1
Well Diameter From PFC2 to PFC2_T1
Pipe Ovalisation Between PFC1 and PFC2

Resistivity (DRES)
0 (OHMM) 360

Count (FBM)	(WTEP)
0 (CPS) 500	0 (DEGF) 225
PFC2 Spinner (SPIN)	
-10 (RPS)	10

Format: PFC2_Image_DL Vertical Scale: 1:200 Graphics File Created: 09-Mar-2006 09:17

OP System Version: 13C0-300

MCM

PFC2-A	13C0-300	DEFT-C2	13C0-300
PILS-A	13C0-300	PSPT-A/B	13C0-300

Parameters

DLIS Name	Description	Value
PFC2-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
CSID	Casing Size I.D.	4.892 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	42 DEG
PFGC	PFC2 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
SPIN	Main Spinner Flowmeter Sonde	PFC2-A_3.5
DEFT-C2: DEFT_C Tool		
CSID	Casing Size I.D.	4.892 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
PFGC	PFC2 Geometrical coefficient	1200
PILS-A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPIN	Main Spinner Flowmeter Sonde	PFC2-A_3.5
PSPT-A/B: Production Services Logging Platform		
CSID	Casing Size I.D.	4.892 IN
GDEV	Average Angular Deviation of Borehole from Normal	42 DEG
BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	4.892 IN

Output DLIS Files

DEFAULT FCS_DEFT_ILS_PSP_016LUP FN:15 PRODUCER 09-Mar-2006 09:17

Schlumberger

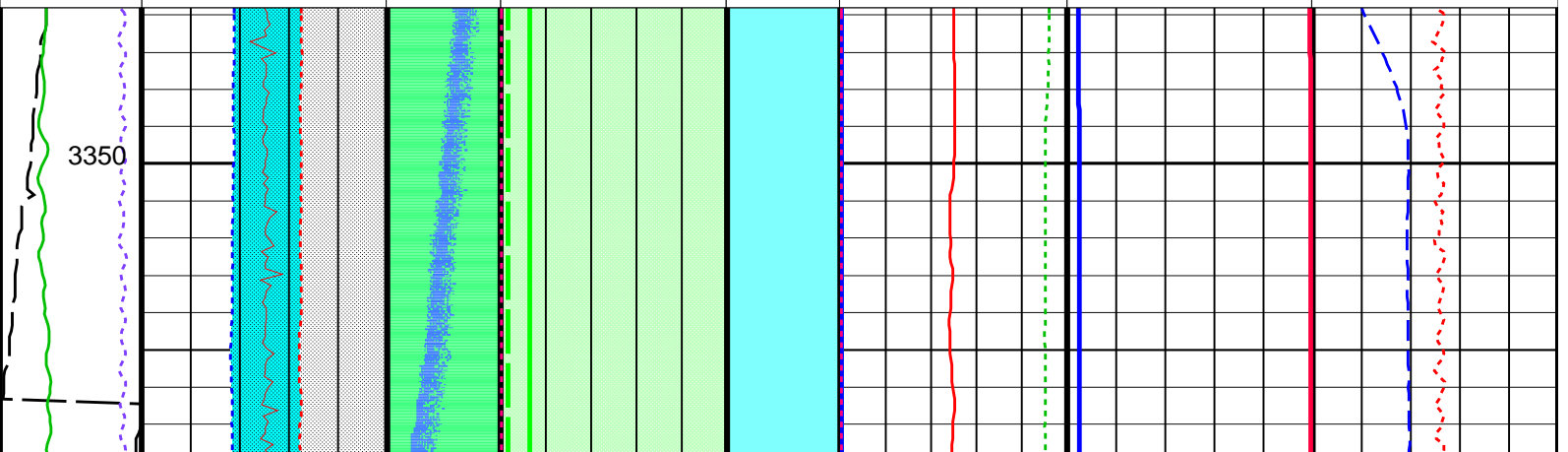
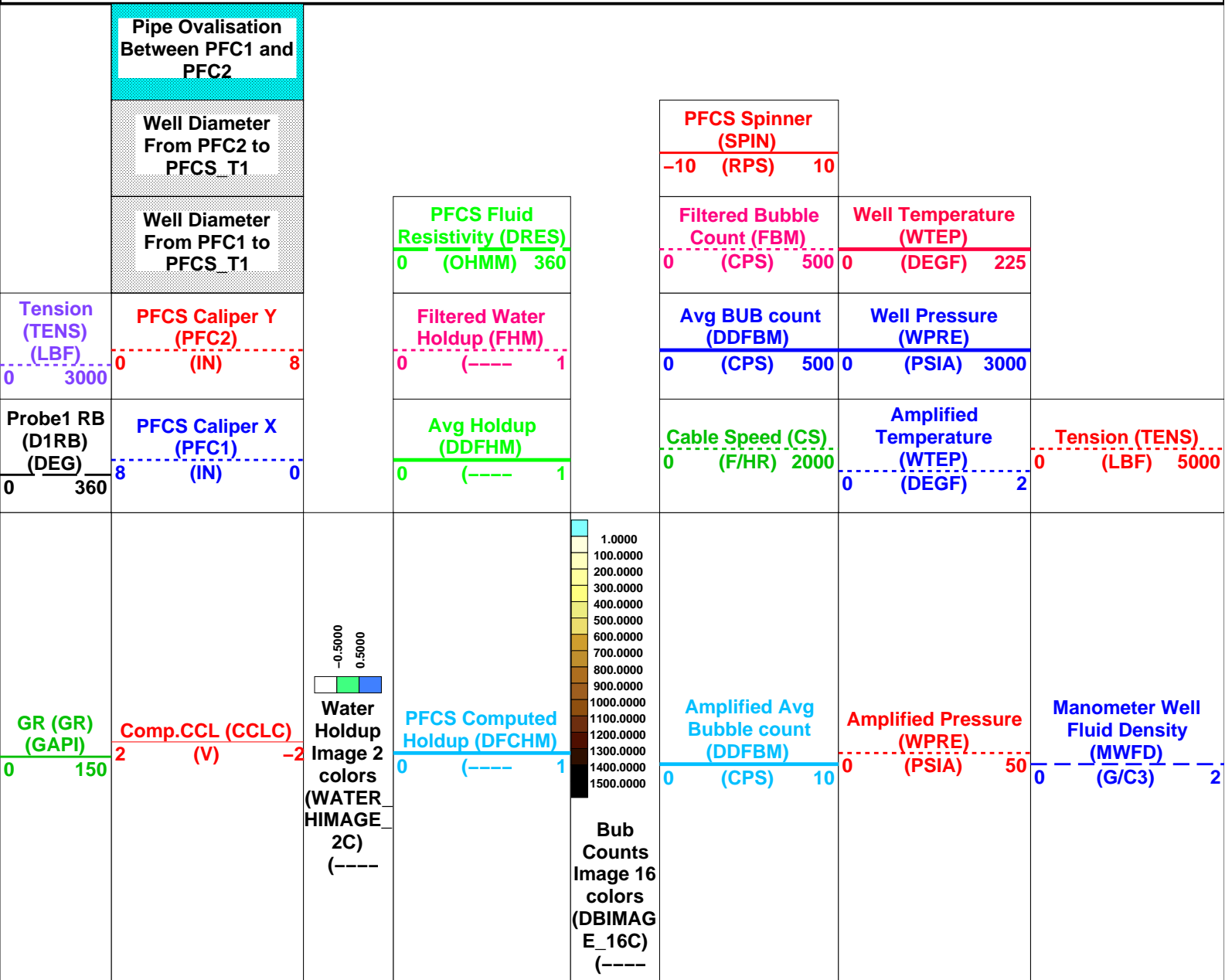
Static Up Log
Pass 1 – 1800 ft/hr

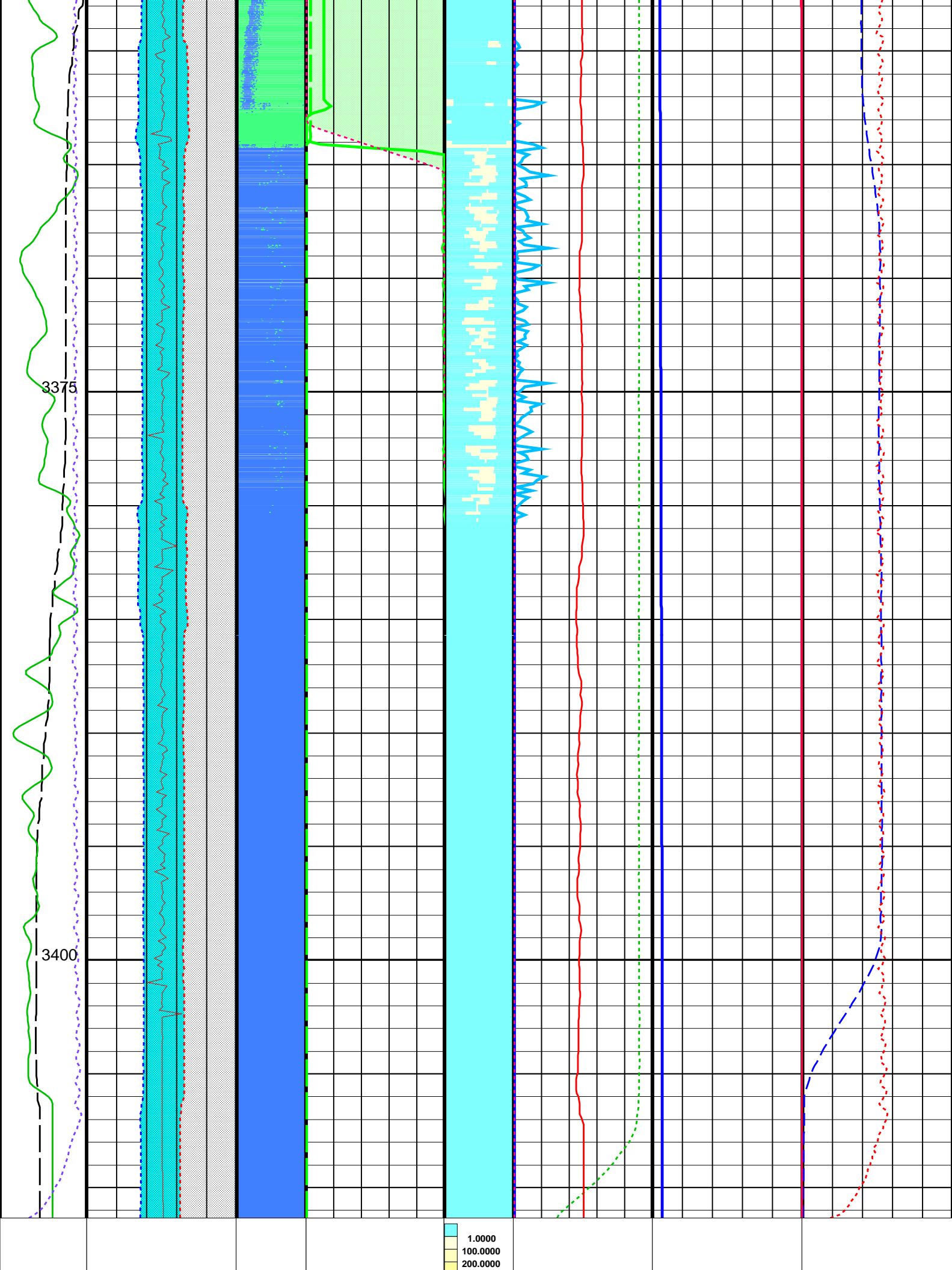
Output DLIS Files

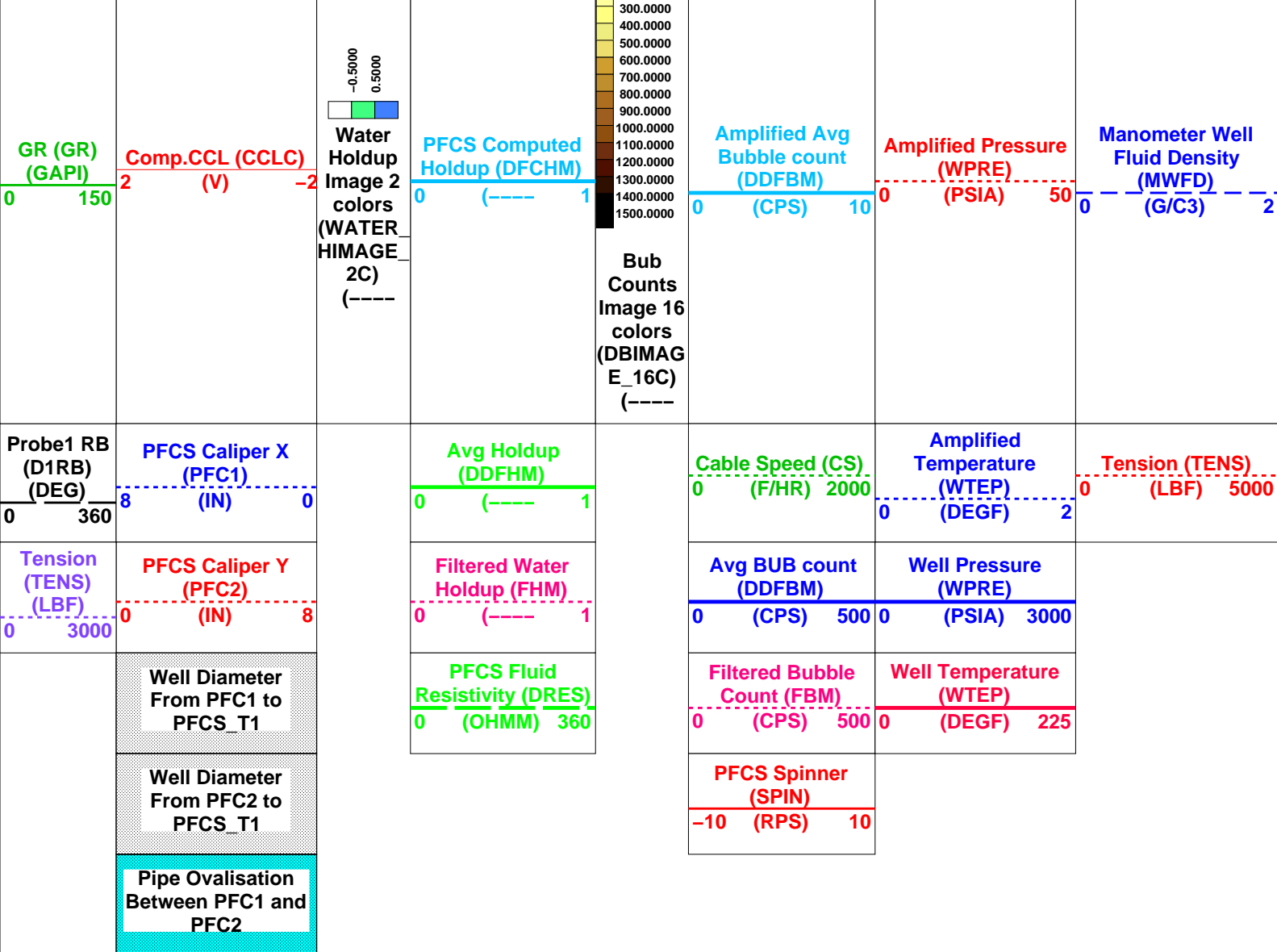
DEFAULT FCS_DEFT_ILS_PSP_015LUP FN:14 PRODUCER 09-Mar-2006 08:59 3411.3 M 3345.8 M

OP System Version: 13C0-300 MCM

PFCs-A 13C0-300 DEFT-C2 13C0-300
PILS-A 13C0-300 PSPT-A/B 13C0-300







Format: PFCS_Image_DL Vertical Scale: 1:200 Graphics File Created: 09-Mar-2006 08:59

OP System Version: 13C0-300			
MCM			
PFCS-A	13C0-300	DEFT-C2	13C0-300
PILS-A	13C0-300	PSPT-A/B	13C0-300

Parameters			
DLIS Name	Description	Value	
PFCS-A: PSP Flow and caliper Tool			
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE	
CSID	Casing Size I.D.	4.892	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	42	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	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5	
DEFT-C2: DEFT_C Tool			
CSID	Casing Size I.D.	4.892	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	42	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	
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5	

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
PFGC	PFCs Geometrical coefficient	1200
PILS-A: PSP In Line	Spinner Flowmeter	
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPIN	Main Spinner Flowmeter Sonde	PFCs-A_3.5
PSPT-A/B: Production	Services Logging Platform	
CSID	Casing Size I.D.	4.892 IN
GDEV	Average Angular Deviation of Borehole from Normal	42 DEG
BORDYN: BorDyn (Well Test Validation)		
CSID	Casing Size I.D.	4.892 IN

Output DLIS Files

DEFAULT
 FCS_DEFT_ILS_PSP_015LUP
 FN:14
 PRODUCER
 09-Mar-2006 08:59

Schlumberger

Correlation Pass

MAXIS Field Log

Output DLIS Files

DEFAULT
 FCS_DEFT_ILS_PSP_015LUP
 FN:14
 PRODUCER
 09-Mar-2006 08:59
 3411.3 M
 3345.8 M

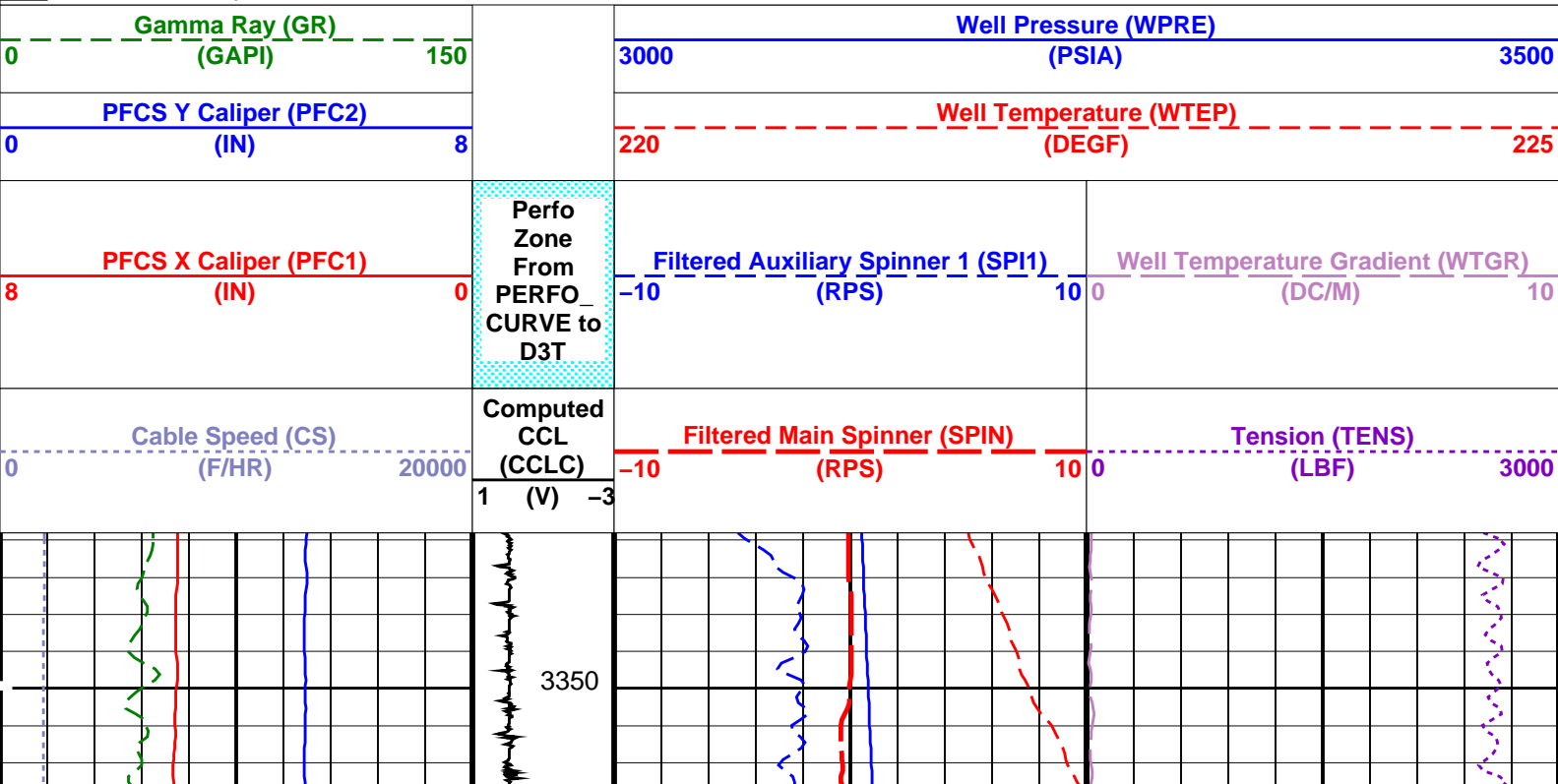
OP System Version: 13C0-300

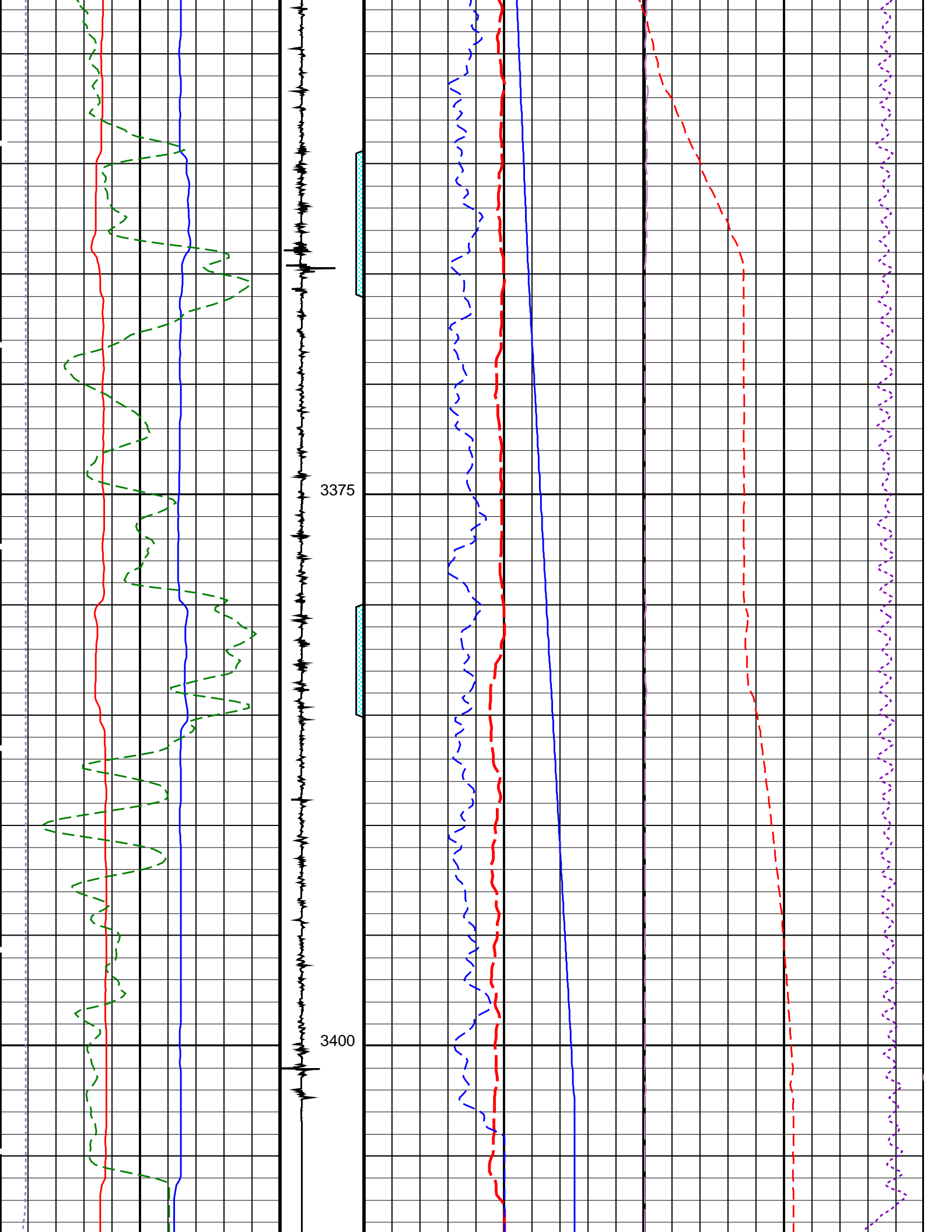
MCM

PFCs-A	13C0-300	DEFT-C2	13C0-300
PILS-A	13C0-300	PSPT-A/B	13C0-300

PIP SUMMARY





Time Mark Every 60 S







PSP Flow and caliper Tool Wellsite Calibration – PFCS Caliper Calibration							
Before: 4–Mar–2006 15:48							
PFCS CaliperX Small Ring	3.000	N/A	2.845	N/A	N/A	N/A	IN
PFCS CaliperX Large Ring	5.500	N/A	5.345	N/A	N/A	N/A	IN
PFCS CaliperY Small Ring	3.000	N/A	2.618	N/A	N/A	N/A	IN
PFCS CaliperY Large Ring	5.500	N/A	5.080	N/A	N/A	N/A	IN
DEFT_C Tool Wellsite Calibration – DEFT_C2 Caliper Calibration							
Before: 4–Mar–2006 15:54							
DEFT–C2 Caliper Small Ring	3.000	N/A	3.185	N/A	N/A	N/A	IN
DEFT–C2 Caliper Large Ring	5.500	N/A	5.525	N/A	N/A	N/A	IN
Production Services Logging Platform Wellsite Calibration – Detector Calibration							
Before: 4–Mar–2006 15:57							
Gamma–Ray Jig–Bkg	125.0	N/A	119.4	N/A	N/A	N/A	GAPI

PSP Flow and caliper Tool / Equipment Identification	
Primary Equipment:	
PFCS Cartridge	PFCC – A
PFCS Caliper	Cali –
PFCS Relative Bearing	Rela –
PFCS 3.5 Spinner Diameter	Spin –
PFCS Fluid Holdup Electric Probes	Hold –
Auxiliary Equipment:	
PFCS Cartridge Housing	PFCH – A

PSP Flow and caliper Tool Wellsite 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				2.845	Before				5.345	Before				2.618
	N/A (Minimum)	3.000 (Nominal)	N/A (Maximum)		N/A (Minimum)	5.500 (Nominal)	N/A (Maximum)			N/A (Minimum)	3.000 (Nominal)	N/A (Maximum)		
Phase	PFCS CaliperY Large Ring IN			Value										
Before				5.080										
	N/A (Minimum)	5.500 (Nominal)	N/A (Maximum)											
Before: 4–Mar–2006 15:48														

DEFT_C Tool / Equipment Identification	
Primary Equipment:	
DEFTC Cartridge	DFCC – C
DEFT_C Caliper	Cali –
DEFT_C2 Relative Bearing	Rela –
DEFT_C Flowmeter probes	Flow –
Auxiliary Equipment:	
DEFTC Cartridge Housing	DFCH – C

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			3.185	Before			5.525
	N/A (Minimum)	3.000 (Nominal)	N/A (Maximum)		N/A (Minimum)	5.500 (Nominal)	N/A (Maximum)
Before: 4–Mar–2006 15:54							

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
PSP Crystal Quartz Gauge Type F
PSP Telemetry and bus master cartridge

RTD_ - 827
CQG_ - 827
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	<div><div></div></div>		2.981	Before	<div><div></div></div>		119.4
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		110.0 (Minimum)	125.0 (Nominal)	140.0 (Maximum)	
Before: 4-Mar-2006 15:57							

Client: Esso Australia Ltd
Field: Cobia
Well: CBA F-1a
Run date:

Tool: PSP
Sub Type: PBMS
Sensor: CQG

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

Pres Coeff

COEFFICIENTS FOR CQG PBMS-B.827 S/N:

827

081102

66

C46C

Fb**0

Fb**1

Fb**2

Fc**0	+.680111397678E+04	+.120782849813E-01	-.190777031362E-06
Fc**1	-.102658491254E+01	-.122997408660E-04	-.947821859003E-10
Fc**2	+.102857781380E-05	+.451140459628E-10	+.108645338870E-14
Fc**3	+.229474703087E-11	+.267043935603E-15	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

Fb**3

Fb**4

Fb**5

Fc**0	-.728373610617E-10	-.117027996504E-14	-.427650821315E-19
Fc**1	-.574592682574E-15	+.626410561221E-19	0.0
Fc**2	0.0	0.0	0.0
Fc**3	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

Sonde Serial NB	:
Sensor Serial NB	827
Calib Date ddmmyy	081102
Matrix Size	66
Coeff CRC	D778

Fc**3	Fc**4	Fc**5
+1.145389553894E-12	-.240593703427E-16	-.210532380041E-20
-.670929322772E-17	-.768634336894E-21	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0

Sonde Serial NB	:
Sensor Serial NB	827
Calib Date ddmmyy	081102
Matrix Size	16
Coeff CRC	3A10

(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
-0.644205958216E-10	-0.659839772199E-15	+0.116231809906E-19

BRMS Quartz Gauge type E

PBMS Quartz Gauge type F

Sonde Serial NB :
Sensor Serial NB 827
Calib Date ddmmyy 081102
Matrix Size 16
Coeff CRC 0720

Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+1.16746443531E+03	-.564375768344E-02	-.272714359911E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+3.21430130517E-12	-.982051921677E-16	+4.71244814554E-20

Client:	Esso Australia Ltd	Tool:	PSP
Field:	Cobia	Sub Type:	PBMS
Well:	CBA F-1a	Sensor:	GR
Run date:			

PBMS Gamma Ray

Sonde Serial NB RESISTORS FOR GR SENSOR N.33143,TOOL PBMS-BA0827. SENSOR S/N:
Sensor Serial NB 33143
Calib Date ddmmyy 170399
Matrix Size 12
Coeff CRC 7B0B

GR HV Rt

	Rt**0	Rt**1
Rt**0	+1.147000000000e+04	+3.320000000000e+04

Client:	Esso Australia Ltd	Tool:	PSP
Field:	Cobia	Sub Type:	PBMS
Well:	CBA F-1a	Sensor:	WellTemp RTD
Run date:			

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS-B.827 S/N:

827

081102

16

FDC1

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	-.107529771062E+01	-.231562951301E+03	+.125219430906E+03
	Tt**3	Tt**4	Tt**5
Tt**0	-.203814029058E+02	+.126658591475E+01	0.0

Company: **Esso Australia Ltd**

Schlumberger

Well:

Field:

Rig:

Country:

CBA F-1a

Fortescue

Prod 4 / Crane

Australia

Pressure – Temperature
Spinner – Gamma Ray
Survey