

| Log |
|-----|
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Company: Esso Australia Ltd.

Well: Seahorse # 1

Field: Seahorse

Log : Ensco 102

Country: Australia

PSP-GR-CCL
Production Services Platform
Scale 1:200

Location: Gippsland
Well: Seahorse # 1
Company: Esso Australia Ltd.

LOCATION

| | |
|-------------------------|---------------------------|
| Gippsland | Elev.: K.B. 21 m |
| Basin | G.L. -43 m |
| Bas Strait | D.F. 21 m |
| Permanent Datum: | M.S.L. |
| Log Measured From: | Original K.B. |
| Drilling Measured From: | Original K.B. |
| State: Victoria | Max. Well Deviation |
| | Longitude 147 40'22.35" E |
| | Latitude 038 11'47.95" S |

Logging Date 4-Oct-2005

Number 1

th Driller 1479 m

lumberger Depth Not tagged

tom Log Interval 1470 m

Log Interval 1350 m

ing Fluid Type Production Fluids

inity 15000 ppm

sity

id Level 0 m

IT/CASING/TUBING STRING

Size 12.250 in

m

ing/Tubing Size 4.500 in

ight 12.6 lbm/ft

de L-80

m 60.8 m

m 1503.1 m

Maximum Recorded Temperatures

ger On Bottom 174 degF

t Number 4-Oct-2005

Location 21:30

Recorded By G.Ruthven / G.Wright

Witnessed By A.Basset / R.Bain / B.White

PVT DATA

| | | | |
|--------------------------|--------------------|-------|-------|
| Oil Density | Run 1 0.6043 g/cm3 | Run 2 | Run 3 |
| Water Salinity | 15000 ppm | | |
| Gas Gravity | 1.12 | | |
| Bo | | | |
| Bw | | | |
| 1/Bg | | | |
| Bubble Point Pressure | | | |
| Bubble Point Temperature | | | |
| Solution GOR | 1020 ft3/bbl | | |
| Maximum Deviation | | | |

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

DEPTH SUMMARY LISTING

Date Created: 7-OCT-2005 11:21:58

Depth System Equipment

| Depth Measuring Device | | Tension Device | | Logging Cable | |
|---------------------------|------------|---------------------------|-------------|---|-----------|
| Type: | IDW-E | Type: | CMTD-B/A | Type: | 7-46ZV-XS |
| Serial Number: | 727 | Serial Number: | 2336 | Serial Number: | 74172 |
| Calibration Date: | 5-Jul-2005 | Calibration Date: | 15-Jan-2005 | Length: | 7315.20 M |
| Calibrator Serial Number: | 1009 | Calibrator Serial Number: | 1051 | Conveyance Method: Wireline Rig Type: Offshore_Fixed | |
| Calibration Cable Type: | 2-32ZT | Calibration Gain: | 0.81 | | |
| Wheel Correction 1: | -4 | Calibration Offset: | 509.00 | | |
| Wheel Correction 2: | -3 | | | | |

Depth Control Parameters

| | |
|--------------------------------------|-----------------------------|
| Log Sequence: | Subsequent Trip To the Well |
| Reference Log Name: | SOLAR Composite Log |
| Subsequent Trip Down Log Correction: | 1.00 M |

Depth Control Remarks

| |
|--|
| 1. Depth correlated to Solar log provided by client. |
| 2. |
| 3. |
| 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: |
| OS2: |
| OS3: |
| OS4: |
| OS5: |
| REMARKS: RUN NUMBER 1 |
| Depth correlated to SOLAR Composite Log provided by client. |
| Objective of this survey was to determine source of well flow and determine surface flow rates in order to determine additional work-over requirements. |
| Tools run as per tool sketch with DEFT probes offset 45 degrees to PFCS. |
| Plug set in nipple at 1479.0m by slickline prior to this run. |
| Shut-in pass (down at 900 ft/hr) performed first to evaluate GR response from upper zone. |
| Tool positioned at 1350m MDKB while well was opened in order to monitor flow stabilisation. 2 logs shown due to computer crash. |
| As water holdup had decreased significantly after 6 hours, flowing pass (down at 1800 ft/hr) was performed to confirm flow was from upper zone. |

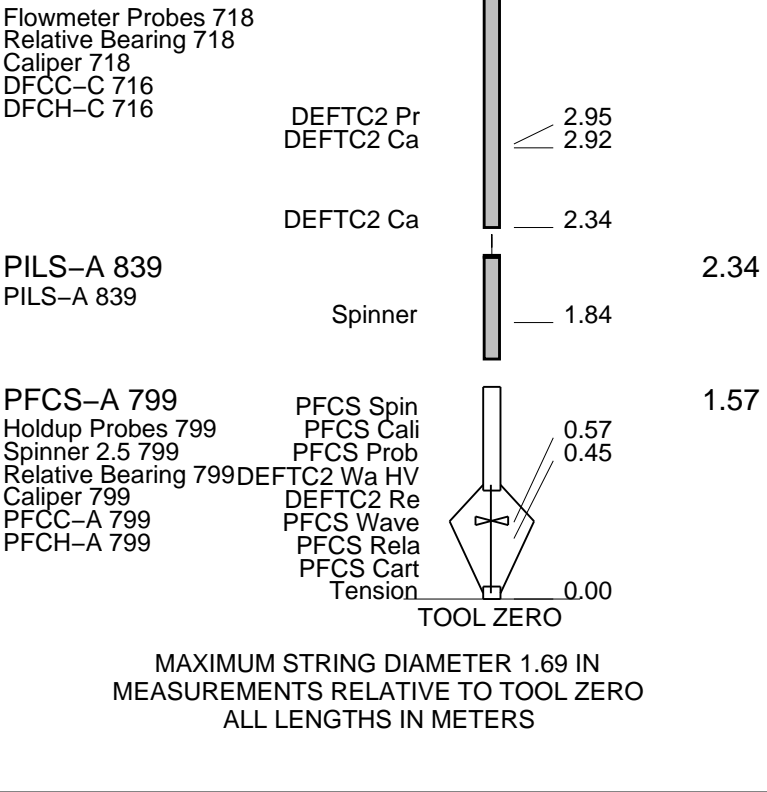
| |
|--|
| Another station recorded after this flowing pass, indicating that water holdup decreased to zero. |
| Additional flowing pass performed (down at 1800 ft/hr) with zero water holdup to evaluate flow rate. |
| At upper sliding sleeve, BHP (Static) = 1952 psia, BHT (Static) = 170.0 degF |
| BHP (Flowing) = 1821 psia, BHT (Flowing) = 168.1 degF |
| Well was flowed at 100% choke. |
| Max recorded temperature of 174 degF measured at 1470m with well shut-in. |
| Crew: |
| E.Mezenberg, B.Taylor, A.Hall, S.Kiss |

| RUN 1 | | | RUN 2 | | |
|------------------|-------------|------|------------------|-------|------|
| SERVICE ORDER #: | AUSL0563559 | | SERVICE ORDER #: | | |
| PROGRAM VERSION: | 13C0-300 | | PROGRAM VERSION: | | |
| FLUID LEVEL: | 0 m | | FLUID LEVEL: | | |
| LOGGED INTERVAL | START | STOP | LOGGED INTERVAL | START | STOP |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| EQUIPMENT DESCRIPTION | | | | | |
|-----------------------|--|--|-------|--|--|
| RUN 1 | | | RUN 2 | | |

| SURFACE EQUIPMENT | | |
|-------------------|--|--|
| WITM-A | | |

| DOWNHOLE EQUIPMENT | | |
|---------------------|---|-------|
| AH-Swbs-b 761 |  | 11.28 |
| AH-Swbs-b 761 | | |
| AH-Swbs-b 762 |  | 10.60 |
| AH-Swbs-b 762 | | |
| AH-Swbs-b 763 |  | 9.91 |
| AH-Swbs-b 763 | | |
| AH-Swbs-b 731 |  | 9.23 |
| AH-Swbs-b 731 | | |
| MH-Swbs-a 726 |  | 8.49 |
| MH-Swbs-a 726 | | |
| PSPT-A/B 827 |  | 8.16 |
| PSC-A 806 | | |
| PSPT-B 827 | | |
| PSTC 806 | | |
| PBMS-B 827 | | |
| CQG_F_Mano 827 | | |
| RTD Thermometer 827 | | |
| GR 33143 | | |
| CCL 827 | | |
| PBMS 827 | | |
| Well_Temp |  | 6.10 |
| CQG Manom | | 5.99 |
| CCL | | 5.87 |
| PBMS PSTC | | 5.64 |
| PGMC-A/B 1751 |  | 5.64 |
| PGMC-B 1751 | | |
| Accelero 1751 | | |
| PSOI_Gradio 1939 | | |
| PGMC |  | 4.19 |
| DEFT-C2 710 |  | 4.19 |



Client: Esso Australia Pty Ltd
Well: Seahorse-1
Field: Seahorse
State: Victoria
Country: Australia

Rig Name: Ensco 102
Reference Datum: Mean Sea Level
Elevation: 21.0 m

Drawing Date: 9/28/2005
API #:

| Production String | (in) | | (m) | Well Schematic | (m) | (in) | | Casing String |
|-------------------|-------|-------|-------|----------------|-------|--------|----|---------------|
| | OD | ID | MD | | MD | OD | ID | |
| Tubing Hanger | | 4.077 | 60.1 | | | | | |
| Tubing | 4.500 | 3.958 | 60.8 | | 64.0 | 20.000 | | Casing String |
| Nipple | 4.500 | 3.812 | 74.5 | | | | | |
| Tubing | 4.500 | 3.958 | 74.9 | | 184.0 | 20.000 | | Casing Shoe |
| Nipple | 4.500 | 3.875 | 291.4 | | | | | |
| SSSV | 4.500 | 3.813 | 291.9 | | | | | |
| Tubing | 4.500 | 3.958 | 294.7 | | | | | |
| Nipple | 4.500 | 3.875 | 307.2 | | | | | |
| Shut in Valve | 4.500 | 3.813 | 307.7 | | | | | |
| Tubing | 4.500 | 3.958 | 310.5 | | | | | |
| Nipple | 4.500 | 3.750 | 324.8 | | | | | |
| Tubing | 4.500 | 3.958 | 325.7 | | | | | |
| Gas Lift Mandrel | 4.500 | 3.855 | 914.2 | | | | | |
| Tubing | 4.500 | 3.958 | 917.1 | | 974.0 | 13.375 | | Casing Shoe |

Nipple
Packer
Tubing
Sliding Sleeve
Tubing
Blast Joint

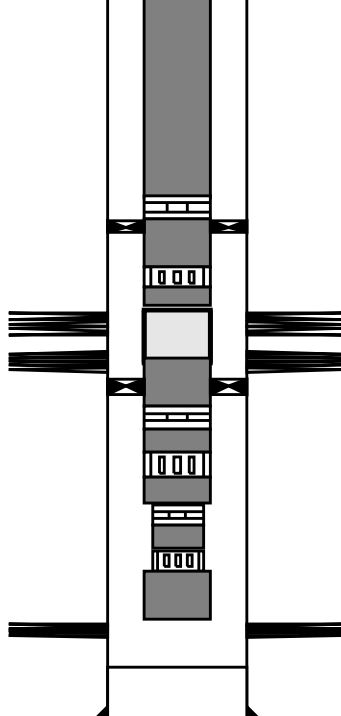
Tubing
Packer
Nipple, PLUG INSTALLED
Tubing
Sliding Sleeve
Tubing
Nipple, PLUG INSTALLED
Tubing
Sliding Sleeve
Tubing
Tubing Bottom with bullhose

4.500 3.735
9.625 4.500
4.500 3.958
4.500 3.625
4.500 3.958
4.500 3.958

4.500 3.958
9.625 4.500
4.500 3.563
4.500 3.958
4.500 3.500
4.500 3.958
3.500 2.635
3.500 2.992
3.500 2.375
4.500 3.958
4.500 3.958

1389.1
1389.5
1389.5
1410.1
1411.5
1418.2

1448.1
1469.2
1479.0
1479.4
1481.3
1482.7
1487.8
1488.3
1491.3
1492.3
1503.1



1625.0
1675.0

9.625

Perforation Zone, N1.1 to N1.3
1425.6 – 1439m
Perforation Zone, N1.4
1445.7 – 1449.6m

Perforation Zone, N2.6
1512.6 – 1516.6m

PBTD
Casing Shoe

Schlumberger

Single Pass Rate Interpretation

MAXIS Field Log

SINGLE PASS RATE INTERPRETATION

Client: Esso Australia Ltd.
Field: Seahorse
Well: Seahorse # 1
Run Date:

(Interpretation Model: TRI_PHASE_FLOW)

PVT DATA:

Oil Gravity: 53.00 (DAPI)
Gas Gravity: 1.120
Gas Oil Ratio: 1020.00 (F3/B)
Water Salinity: 15000.0 (PPM)

ESTIMATED AVERAGE PHASE PROPERTIES IN TOTAL FLOW:

| | | | |
|-----------------|----------|-----------------|----------------|
| Oil FVF (BO): | 1.72 | Oil Viscosity: | 0.218 (CPOI) |
| Gas FVF (BG): | 0.005047 | Gas Viscosity: | 0.027 (CPOI) |
| 1/BG : | 198. | Bubble Point P: | 1584.4 (PSIA) |
| Water FVF (BW): | 1.018 | Solution GOR: | 1020.00 (F3/B) |

PRODUCING ZONES:

| | Top Depth Bottom Depth (M) | Inner Diameter (IN) | Well Pressure (KPAA) | Well Temperature (DEGF) | Fluid Density (G/C3) | Fluid Velocity (F/MN) |
|--------|-----------------------------------|----------------------------|----------------------------|-------------------------------|----------------------------|-----------------------------|
| Zone 1 | 1410.0 | 3.96 | 12471.8 | 168.1 | 0.70 | 695.8 |
| | 1412.0 | 3.84 | 12757.1 | 170.7 | 0.98 | 1.6 |

DOWNHOLE FLOW RATES:

| | Cumulative Individual | Water Flow Rate (BB/D) | Oil Flow Rate (BB/D) | Free Gas Flow Rate (BB/D) |
|-------------|--------------------------|---------------------------|-------------------------|------------------------------|
| Zone 1 | | -26.9 | 15293.0 | -6.2 |
| Bottom Leak | | 28.6 | 0.1 | 4.7 |

SURFACE FLOW RATES:

| | (Contribution to Total Phase Flow Percentage) | | |
|-------------|---|-----------------------------|-----------------------------|
| | Water Flow Rate (BB/D) (%) | Oil Flow Rate (BB/D) (%) | Gas Flow Rate (KM3D) (%) |
| Total | 1.6 | 8904.2 | 260.0 |
| Zone 1 | -26.4 (-1605) | 8904.1 (100) | 259.9 (100) |
| Bottom Leak | 28.1 (1705) | 0.1 (0) | 0.2 (0) |

Company: Esso Australia Ltd. Well: Seahorse # 1

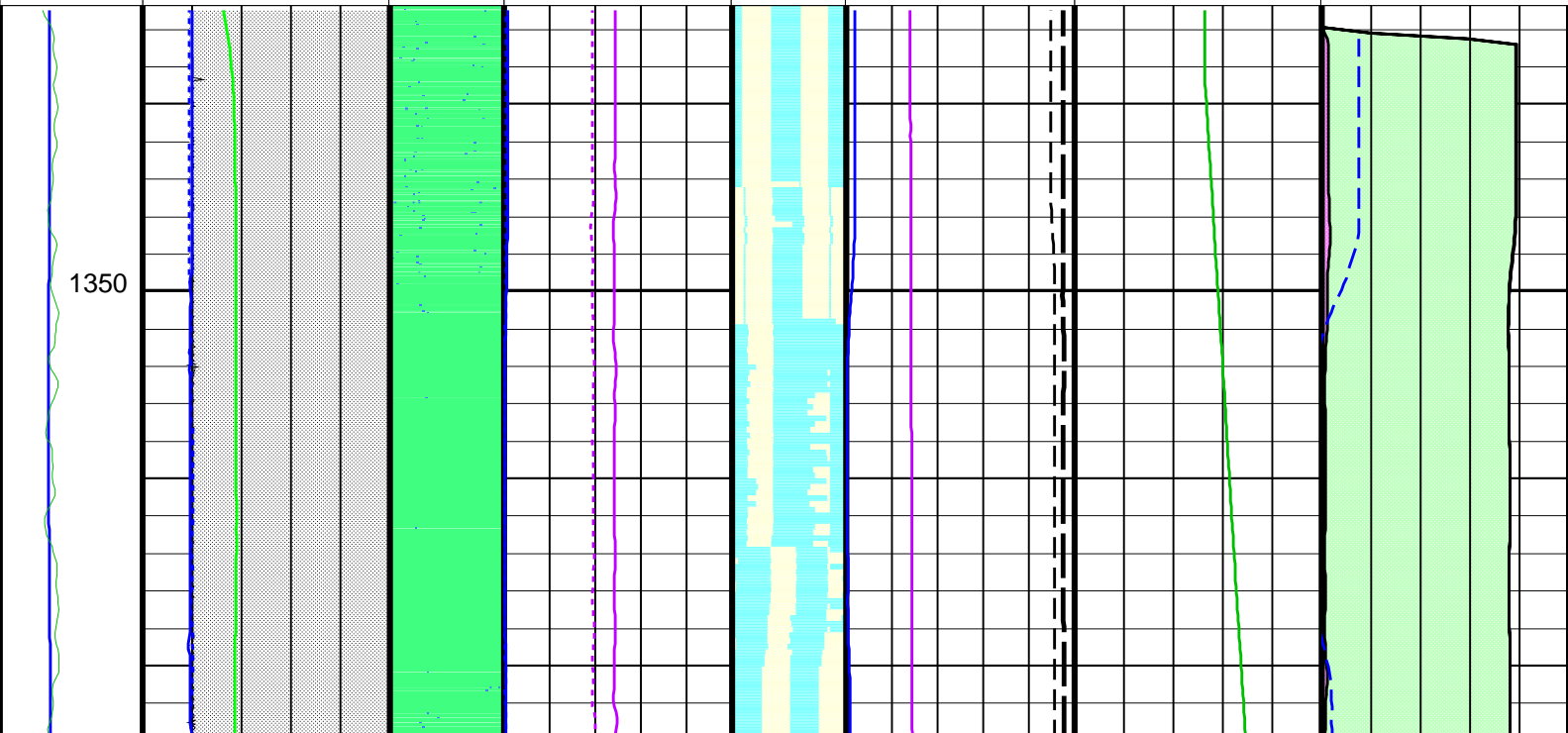
Input DLIS Files

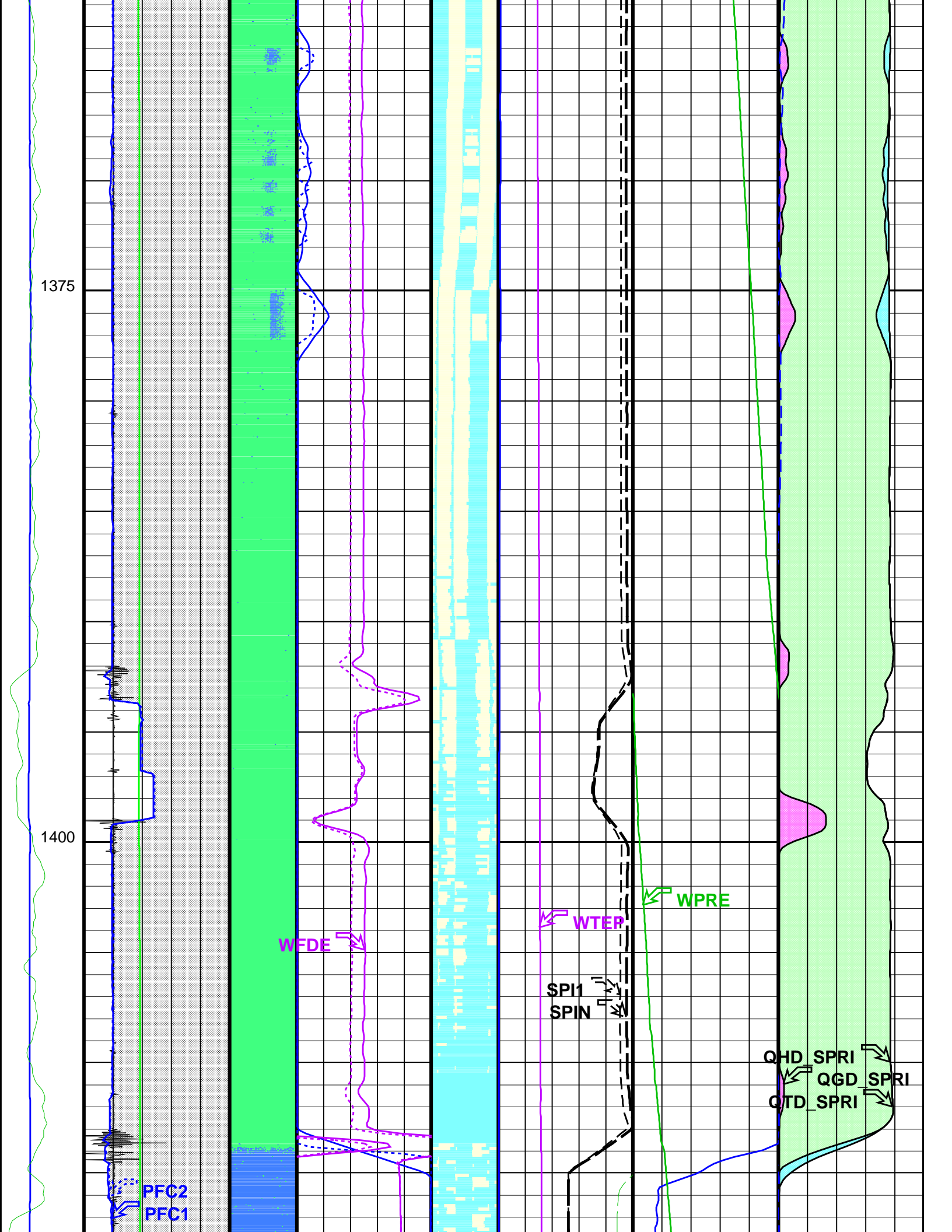
DEFAULT Flip_FCS_ILS_DEFT_095PUP PRODUCER 06-Oct-2005 18:42

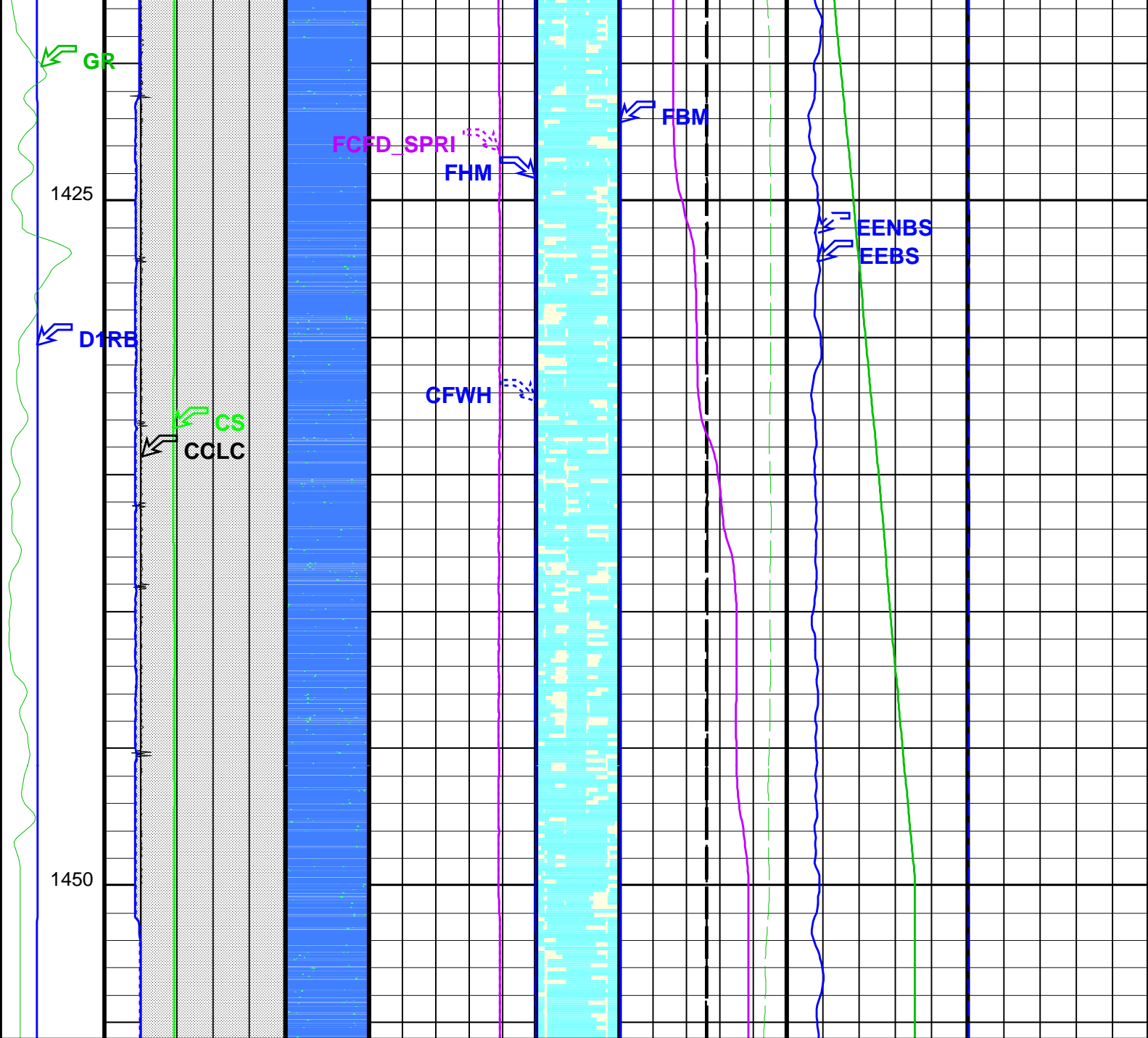
Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_097PUP FN:13 PRODUCER 06-Oct-2005 18:45 1455.6 M 1342.3 M

| | | | | | | | |
|---------------------------------------|--|--|---|--|---|---|----------------|
| | 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 Temperature (WTEP) 165 (DEGF) 175 | | | |
| | PFCs Caliper Y (PFC2) 3 (IN) 8 | | Friction Corrected Well Fluid Density (FCFD_SPRI) 0.2 (G/C3) 1.2 | Filtered Auxiliary Spinner 1 (SPI1) -100 (RPS) 100 | | | Water Flowrate |
| | PFCs Caliper X (PFC1) 3 (IN) 8 | | Eprobe Water Holdup (FHM) 0 (---- 1 | Filtered Main Spinner (SPIN) -100 (RPS) 100 | Well Pressure (WPRE) 1700 (PSIA) 1800 | | Oil |
| Probe1 RB (D1RB) (DEG) 0 360 | Cable Speed (CS) 0 (F/HR) 5000 | | Corrected Gradio Heavy Phase Holdup (CGHPH) 0 (---- 1 | Apparent spinner pitch (ASPI) 6 (IN) 1 | Eprobe Standalone Computed Bubble size (EENBS) 0 (MM) 15 | | Gas |
| GR (GR) (GAPI) 0 100 | Comp.CCL (CCLC) -1 (V) 4 | Water Holdup Image 2 colors (WATER HIMAGE 2C) (---- | Eprobe Corrected Water Holdup (CFWH) 0 (---- 1 | Eprobe Bubble Count (FBM) 0 (CPS) 1500 | Eprobe Bubble size (EEBS) 0 (MM) 15 | Eprobe Bubble Rate (QHBD_SPRI) 0 (BB/D) 20000 | |
| | | | | | | | |







| | | | | | | | |
|---|--|--|--|---|--|---|---|
| <div>GR (GR) (GAPI)</div> <div>0100</div> | <div>Comp.CCL (CCLC)</div> <div>-1(V)4</div> | <div><div><div>-0.50000.5000</div><div>Water Holdup Image 2 colors (WATER HIMAGE 2C) (----</div></div></div> | <div>Eprobe Corrected Water Holdup (CFWH)</div> <div>0-----1</div> | <div><div><div>1.0000100.9330200.8670300.8000400.7330500.6670600.6000700.5330800.4670900.40001000.33001100.27001200.20001300.13001400.06991500.0000</div><div>Bub Counts Image 16 colors (DBIMAG E_16C) (----</div></div></div> | <div>Eprobe Bubble Count (FBM)</div> <div>(CPS)01500</div> | <div>Eprobe Bubble size (EEBS)</div> <div>(MM)015</div> | <div>Eprobe Bubble Rate (QHBD_SPRI)</div> <div>(BB/D)020000</div> |
| Probe1 RB (D1RB) | Cable Speed (CS) | | Corrected Gradio Heavy Phase | | Apparent spinner | Eprobe Standalone Computed Bubble | |

| | | | | | | | | | |
|-------|-----|------------------------------------|------|---|---|--------|-------------------------------------|----------------------|----------------|
| (DEG) | 0 | (F/HR) | 5000 | | Holdup (CGHPH) | 6 | size (EENBS) | 15 | Gas |
| 0 | 360 | | | | 0 | (IN) | 0 | (MM) | |
| | | PFCs Caliper X (PFC1) | | | Eprobe Water Holdup (FHM) | | Filtered Main Spinner (SPIN) | Well Pressure (WPRE) | Oil |
| | | 3 | (IN) | 8 | 0 | (---- | -100 (RPS) | 1700 (PSIA) | |
| | | | | | | 1 | 100 | 1800 | |
| | | PFCs Caliper Y (PFC2) | | | Friction Corrected Well Fluid Density (FCFD_SPRI) | | Filtered Auxiliary Spinner 1 (SPI1) | | Water Flowrate |
| | | 3 | (IN) | 8 | 0.2 | (G/C3) | -100 (RPS) | | |
| | | | | | | 1.2 | 100 | | |
| | | Well Diameter From PFC1 to PFCs_T1 | | | Well Fluid Density (WFDE) | | Well Temperature (WTEP) | | |
| | | | | | 0.2 | (G/C3) | 165 (DEGF) | 175 | |
| | | Well Diameter From PFC2 to PFCs_T1 | | | | | | | |

| | | | | | |
|-----------------------------|----------|-----------------------|----------|--|--|
| Format: SPRINT_PFCsImage_DL | | Vertical Scale: 1:200 | | Graphics File Created: 06-Oct-2005 18:45 | |
| OP System Version: 13C0-300 | | | | | |
| MCM | | | | | |
| PFCs-A | 13C0-300 | PILS-A | 13C0-300 | | |
| DEFT-C2 | 13C0-300 | PGMC-A/B | 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. | 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 | 0 | 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/B: 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 | LB/G |
| PSPT-A/B: Production Services Logging Platform | | | |
| CSID | Casing Size I.D. | 3.958 | IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| SPRI: Single Pass Rate Interpretation | | | |
| DENS_SEL | SPRint Density Selector | WFDE | |
| DGHC | Deft Ghost Probe Holdup Correction | MANU | |
| ESBS | Electrical-probe Stand-alone Bubble Size | 0.06 | IN |
| FLOWVIEW_FLAG | FlowView Water Holdup Used Flag | YES | |
| GDD_SPRI | Gas Downhole Density | 0.15 | G/C3 |
| GFECF | Gradio Friction Effect Correction Factor | 0.58 | |
| GHCF | GHOST Gas Holdup Correction Factor | 0 | |
| GHOST_FLAG | Ghost Gas Holdup Used Flag | NO | |
| GOR_SPRI | Gas Oil Ratio | 1020 | F3/B |

| | | | |
|-----------------|--|----------------|------|
| GRADIO_FLAG | Gradiomaometer Holdup Used Flag | YES | |
| ODD_SPRI | Oil Downhole Density | 0.8 | G/C3 |
| OGRA_SPRI | Gravity of Oil | 53 | 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 | 1.6 | IN |
| SPIN_SEL | SPRint Spinner Selector | SPIN | |
| SPRI_INTPR_TYPE | SPRint Type of Interpretation | TRI_PHASE_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 | 15000 | PPM |
| | BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958 | IN |
| | System and Miscellaneous | | |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | RECOMPUTE | |

Input DLIS Files

DEFAULT Flip_FCS_ILS_DEFT_095PUP PRODUCER 06-Oct-2005 18:42

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_097PUP FN:13 PRODUCER 06-Oct-2005 18:45

Schlumberger

**2nd Flowing Pass
Down 1800 ft/hr**

MAXIS Field Log

Input DLIS Files

DEFAULT Flip_FCS_ILS_DEFT_095PUP PRODUCER 06-Oct-2005 18:42

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_097PUP FN:13 PRODUCER 06-Oct-2005 18:45 1455.6 M 1342.3 M

OP System Version: 13C0-300

MCM

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

Pipe Ovalisation
Between PFC1 and
PFC2

Well Diameter
From PFC2 to
PFC5_T1

Well Diameter
From PFC1 to
PFC5_T1

PFCS Caliper Y
(PFC2)

8 (IN) 3

Well Fluid Density
(WFDE)

0 (G/C3) 1

PFCS Spinner
(SPIN)

-10 (RPS) 10

Filtered Bubble
Count (FBM)

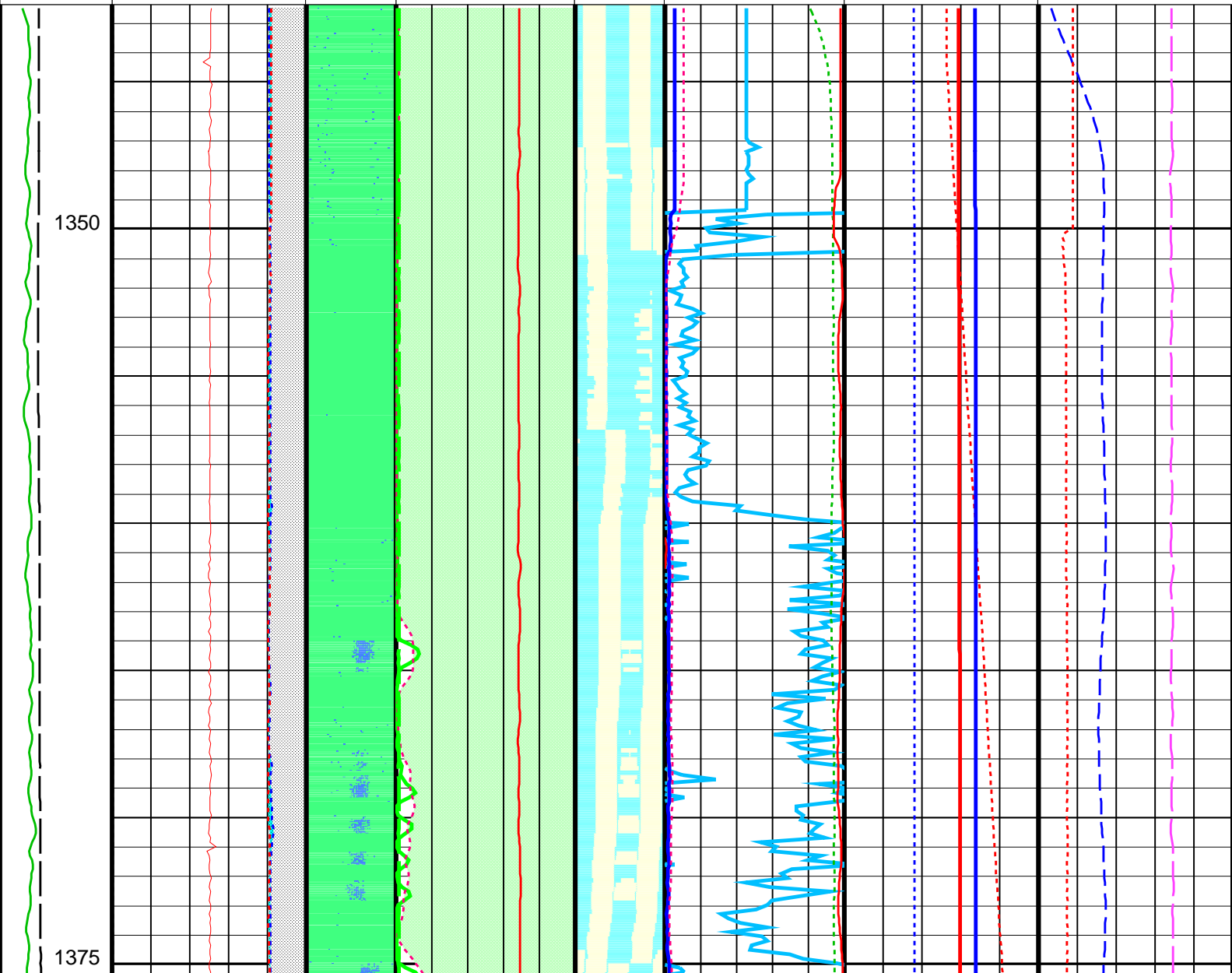
0 (CPS) 500

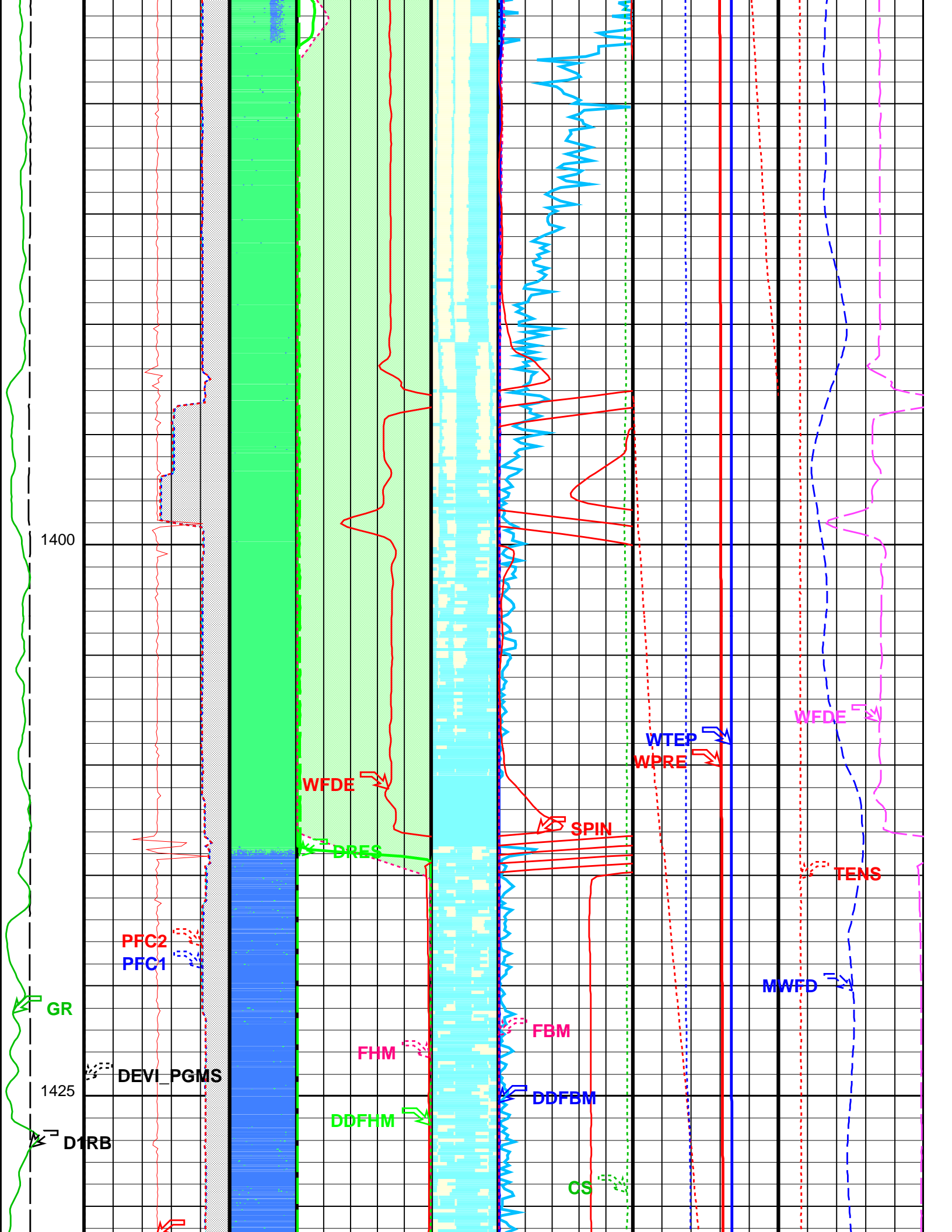
Well Temperature
(WTEP)

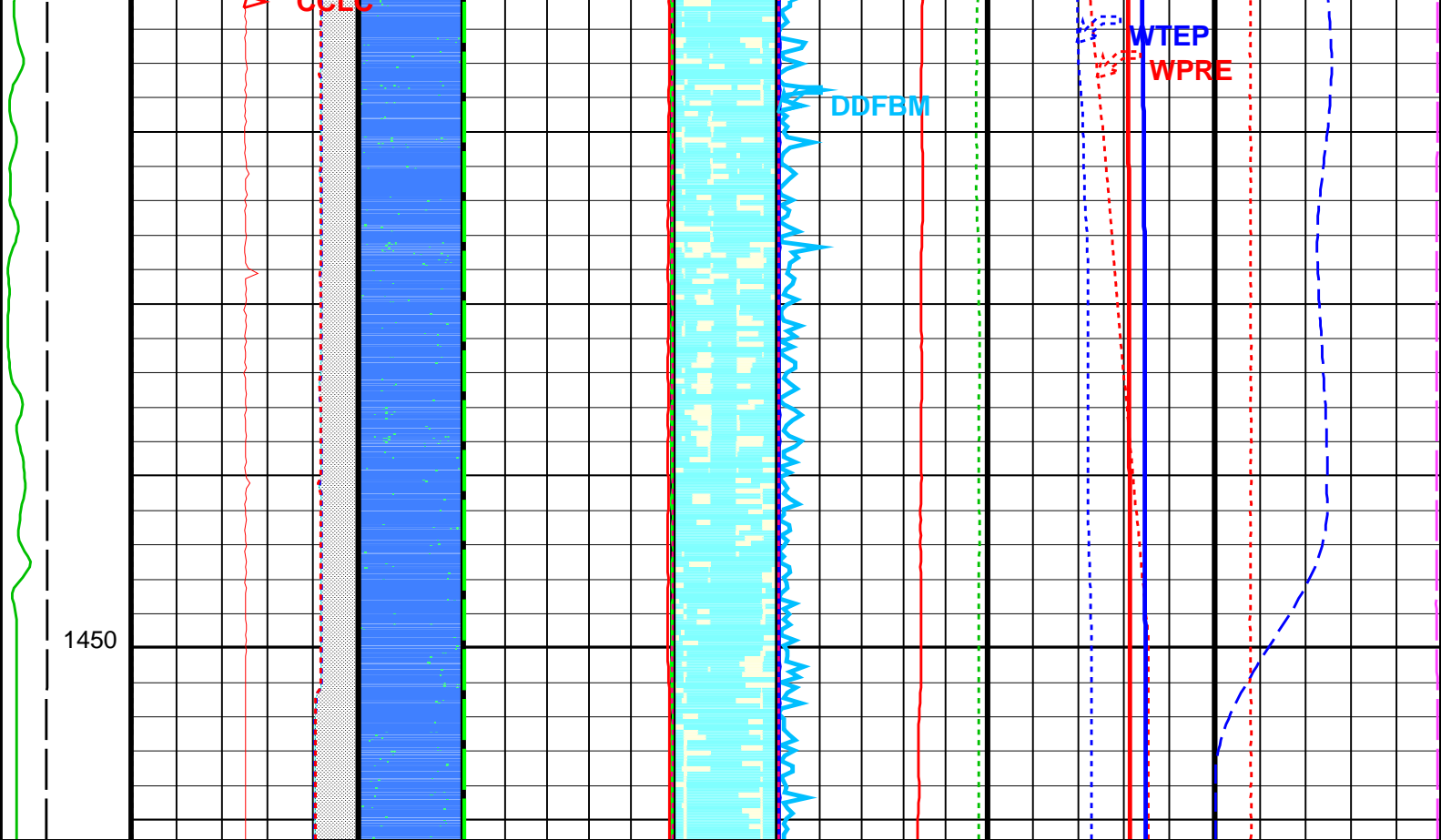
0 (DEGF) 250

| | | | | | |
|---------------------------------------|---|--|---|---|--|
| Probe1 RB (D1RB) (DEG) 0 360 | PFCs Caliper X (PFC1) (IN) 8 3 | PFCs Fluid Resistivity (DRES) (OHMM) 0 360 | Avg BUB count (DDFBM) (CPS) 0 500 | Well Pressure (WPRE) (PSIA) 0 3000 | Well Fluid Density (WFDE) (G/C3) 0 1 |
| | PGMS Deviation (DEVI_PGMS) (DEG) 0 10 | Filtered Water Holdup (FHM) (----) 0 1 | Cable Speed (CS) (F/HR) 0 2000 | Amplified Temperature (WTEP) (DEGF) 0 50 | Tension (TENS) (LBF) 0 5000 |

| | | | | | | | |
|----------------------------|-----------------------------|---|-------------------------------------|--|--|--|---|
| GR (GR) (GAPI) 0 150 | Comp.CCL (CCLC) (V) 2 -2 | Water Holdup Image 2 colors (WATER HIMAGE 2C) (----) | Avg Holdup (DDFHM) (----) 0 1 | Bub Counts Image 16 colors (DBIMAG E_16C) (----) | Amplified Avg Bubble count (DDFBM) (CPS) 0 10 | Amplified Pressure (WPRE) (PSIA) 0 100 | Manometer Well Fluid Density (MWFD) (G/C3) 0 2 |
|----------------------------|-----------------------------|---|-------------------------------------|--|--|--|---|







| | | | | | | |
|--------------------------------|---|---|--|---|--|--|
| GR (GR) (GAPI) 0150 | Comp.CCL (CCLC) (V) 2-2 | Water Holdup Image 2 colors (WATER HIMAGE 2C) (----) -0.50000.5000 | Avg Holdup (DDFHM) (----) 01 | Amplified Avg Bubble count (DDFBM) (CPS) 010 | Amplified Pressure (WPRE) (PSIA) 0100 | Manometer Well Fluid Density (MWFD) (G/C3) 02 |
| Probe1 RB (D1RB) (DEG) 0360 | PGMS Deviation (DEVI_PGMS) (DEG) 010 | | Filtered Water Holdup (FHM) (----) 01 | Cable Speed (CS) (F/HR) 02000 | Amplified Temperature (WTEP) (DEGF) 050 | Tension (TENS) (LBF) 05000 |
| | PFCS Caliper X (PFC1) (IN) 83 | | PFCS Fluid Resistivity (DRES) (OHMM) 0360 | Avg BUB count (DDFBM) (CPS) 0500 | Well Pressure (WPRE) (PSIA) 03000 | Well Fluid Density (WFDE) (G/C3) 01 |
| | PFCS Caliper Y (PFC2) (IN) 83 | | Well Fluid Density (WFDE) (G/C3) 01 | Filtered Bubble Count (FBM) (CPS) 0500 | Well Temperature (WTEP) (DEGF) 0250 | |
| | Well Diameter From PFC1 to PFCS_T1 | | | PFCS Spinner (SPIN) (RPS) -1010 | | |
| | Well Diameter | | | | | |

PFCS_T1

Pipe Ovalisation
Between PFC1 and
PFC2

Format: PFCS_Image_DL Vertical Scale: 1:200

Graphics File Created: 06-Oct-2005 18:45

OP System Version: 13C0-300

MCM

| | | | |
|----------|----------|----------|----------|
| PFCS-A | 13C0-300 | PILS-A | 13C0-300 |
| DEFT-C2 | 13C0-300 | PGMC-A/B | 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. | 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 | 0 DEG |
| PFGC | PFCS Geometrical coefficient | 1200 |
| PFRE1 | Downhole Resistor Probe 1 | 5000 OHMS |
| PFRE2 | Downhole Resistor Probe 2 | 5000 OHMS |
| PFRE3 | Downhole Resistor Probe 3 | 5000 OHMS |
| PFRE4 | Downhole Resistor Probe 4 | 5000 OHMS |
| SDCF | Spinner Depth Constant Filter | 6 |
| 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 |
| 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 |
| PFGC | PFCS Geometrical coefficient | 1200 |
| PGMC-A/B: 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 LB/G |
| PSPT-A/B: Production Services Logging Platform | | |
| CSID | Casing Size I.D. | 3.958 IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 DEG |
| BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958 IN |
| System and Miscellaneous | | |
| DO | Depth Offset for Playback | 0.0 M |
| PP | Playback Processing | RECOMPUTE |

Input DLIS Files

| | | | |
|---------|--------------------------|----------|-------------------|
| DEFAULT | Flip_FCS_ILS_DEFT_095PUP | PRODUCER | 06-Oct-2005 18:42 |
|---------|--------------------------|----------|-------------------|

Output DLIS Files

| | | | | |
|---------|-------------------------|-------|----------|-------------------|
| DEFAULT | FCS_ILS_DEFT_GMS_097PUP | FN:13 | PRODUCER | 06-Oct-2005 18:45 |
|---------|-------------------------|-------|----------|-------------------|

Input DLIS Files

| | | | |
|---------|--------------------------|----------|-------------------|
| DEFAULT | Flip_FCS_ILS_DEFT_095PUP | PRODUCER | 06-Oct-2005 18:42 |
|---------|--------------------------|----------|-------------------|

Output DLIS Files

DEFAULT

FCS_ILS_DEFT_GMS_097PUP

FN:13

PRODUCER

06-Oct-2005 18:45

1455.6 M

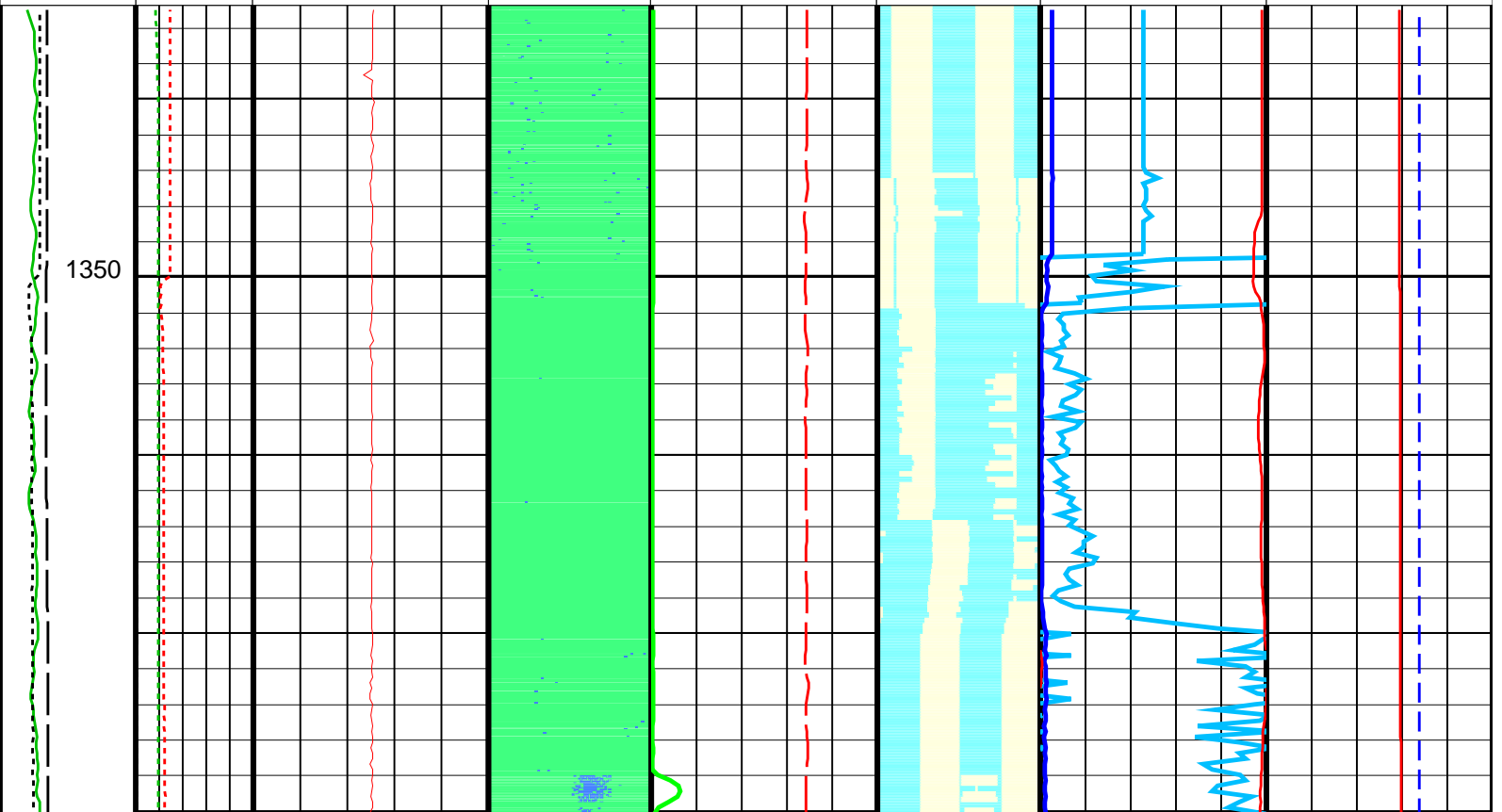
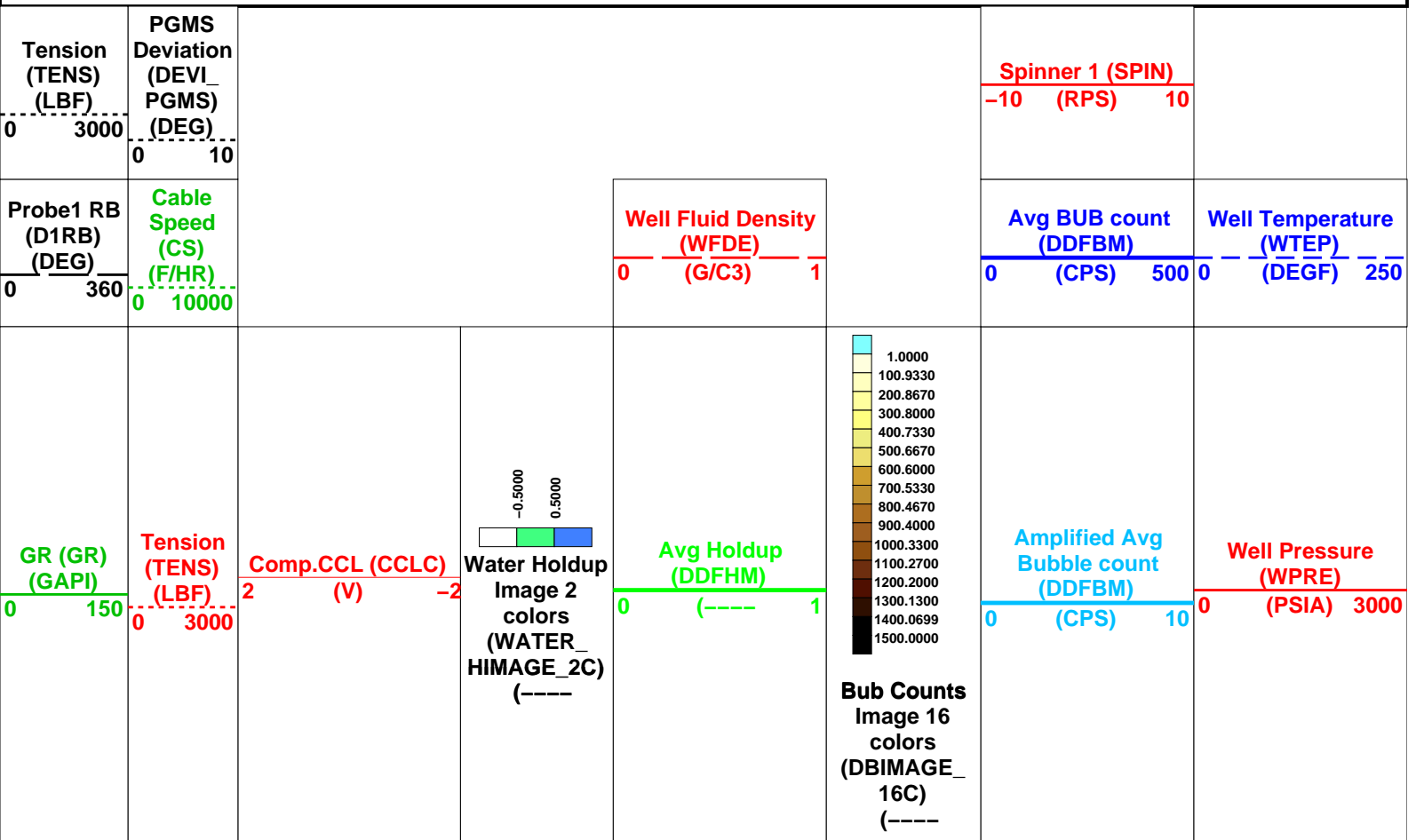
1342.3 M

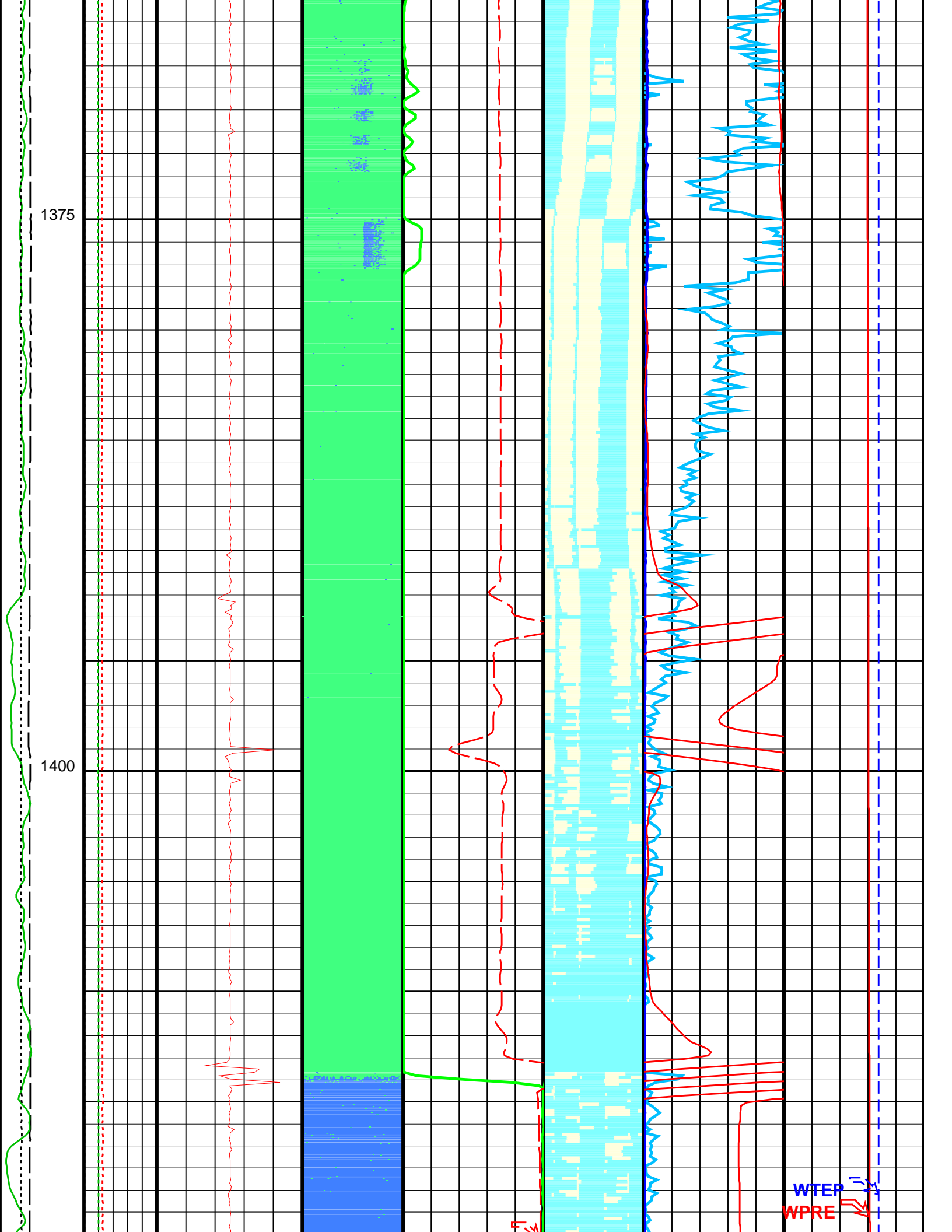
OP System Version: 13C0-300

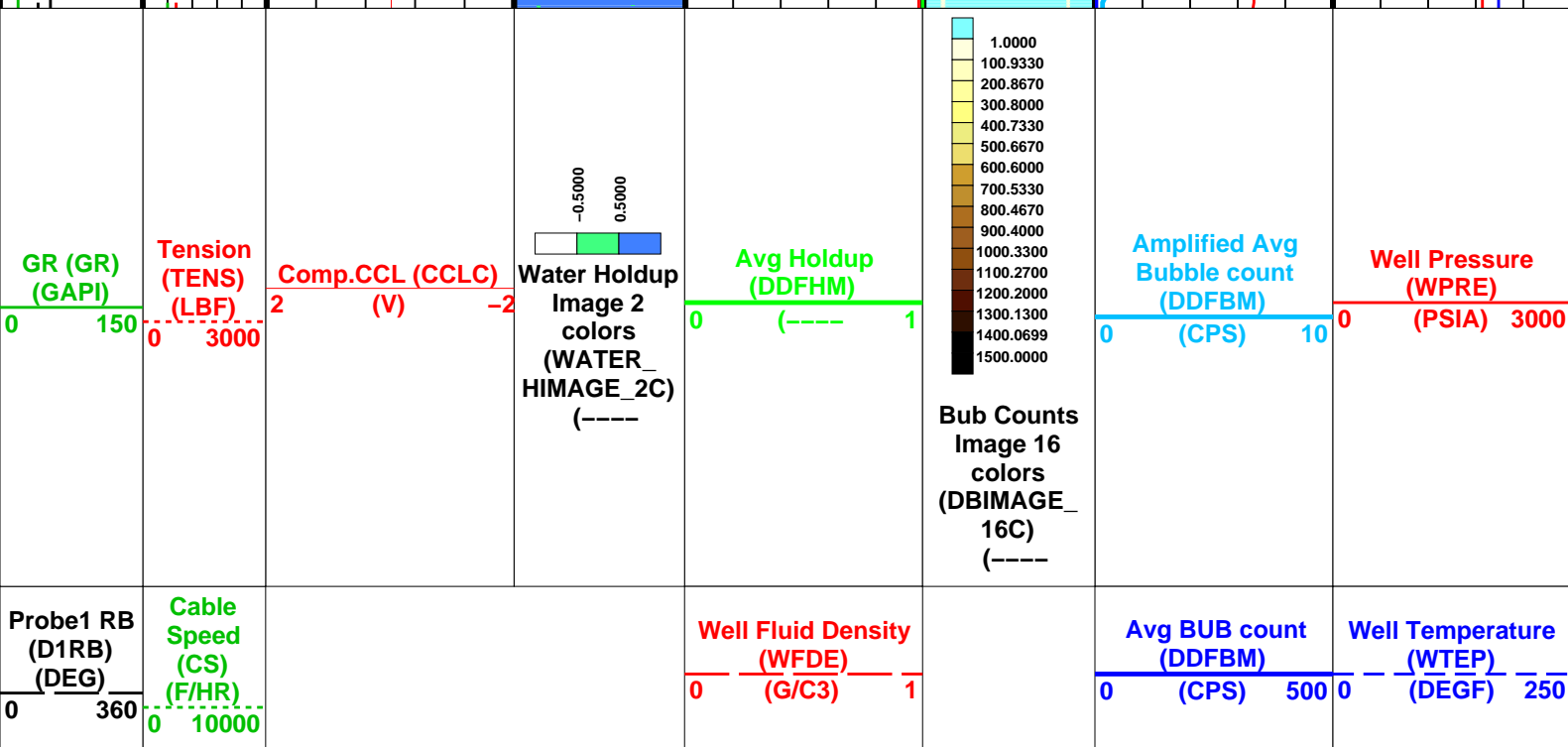
MCM

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

PILS-A 13C0-300
PGMC-A/B 13C0-300







| | | | |
|-----------------------------|--------------------------------------|--|----------------------------------|
| Pressure (TENS) (LBF) | Deviation (DEVI PGMS) (DEG) | | Spinner 1 (SPIN) -10 (RPS) 10 |
| 0 3000 | 0 10 | | |

Format: DEFT_Image_DL Vertical Scale: 1:200 Graphics File Created: 06-Oct-2005 18:45

OP System Version: 13C0-300

MCM

| | | | |
|----------|----------|----------|----------|
| PFCS-A | 13C0-300 | PILS-A | 13C0-300 |
| DEFT-C2 | 13C0-300 | PGMC-A/B | 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. | 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 | 0 DEG |
| SDCF | Spinner Depth Constant Filter | 6 |
| 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 |
| 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/B: 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 LB/G |
| PSPT-A/B: Production Services Logging Platform | | |
| CSID | Casing Size I.D. | 3.958 IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 DEG |
| BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958 IN |
| System and Miscellaneous | | |
| DO | Depth Offset for Playback | 0.0 M |
| PP | Playback Processing | RECOMPUTE |

Input DLIS Files

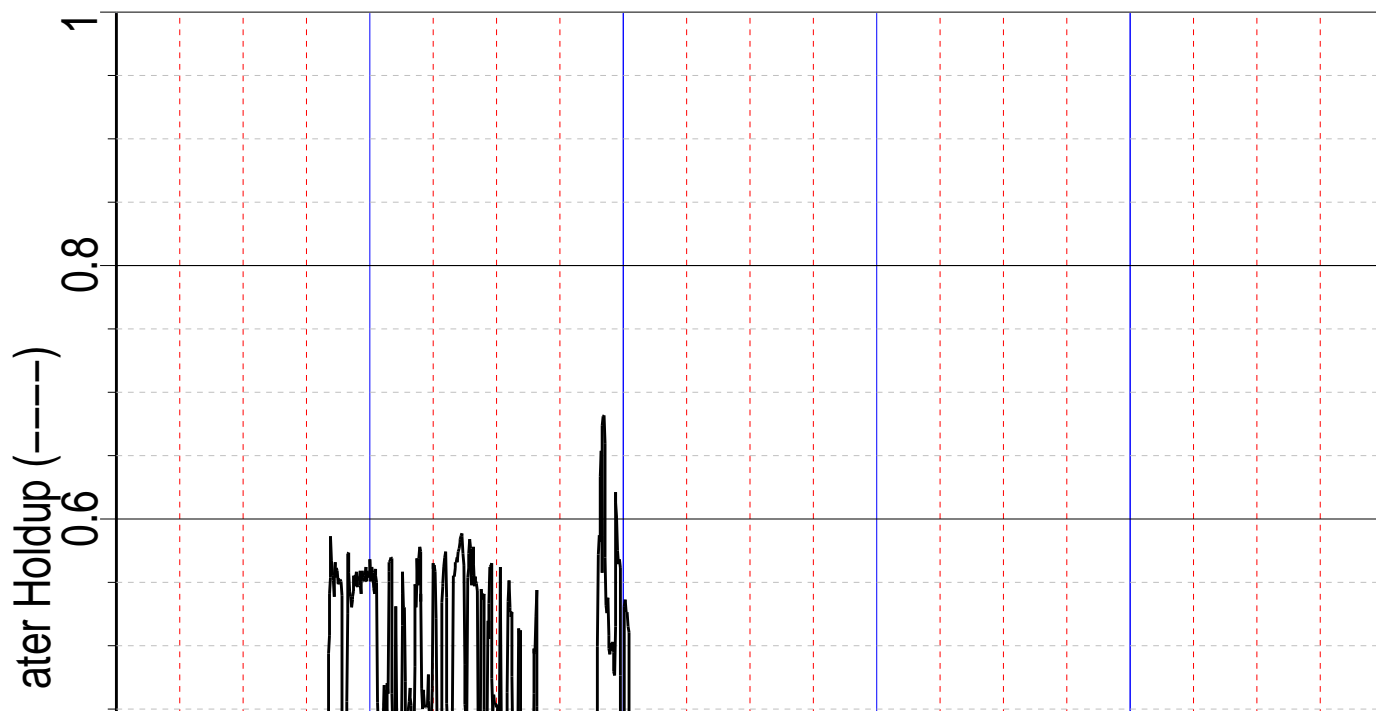
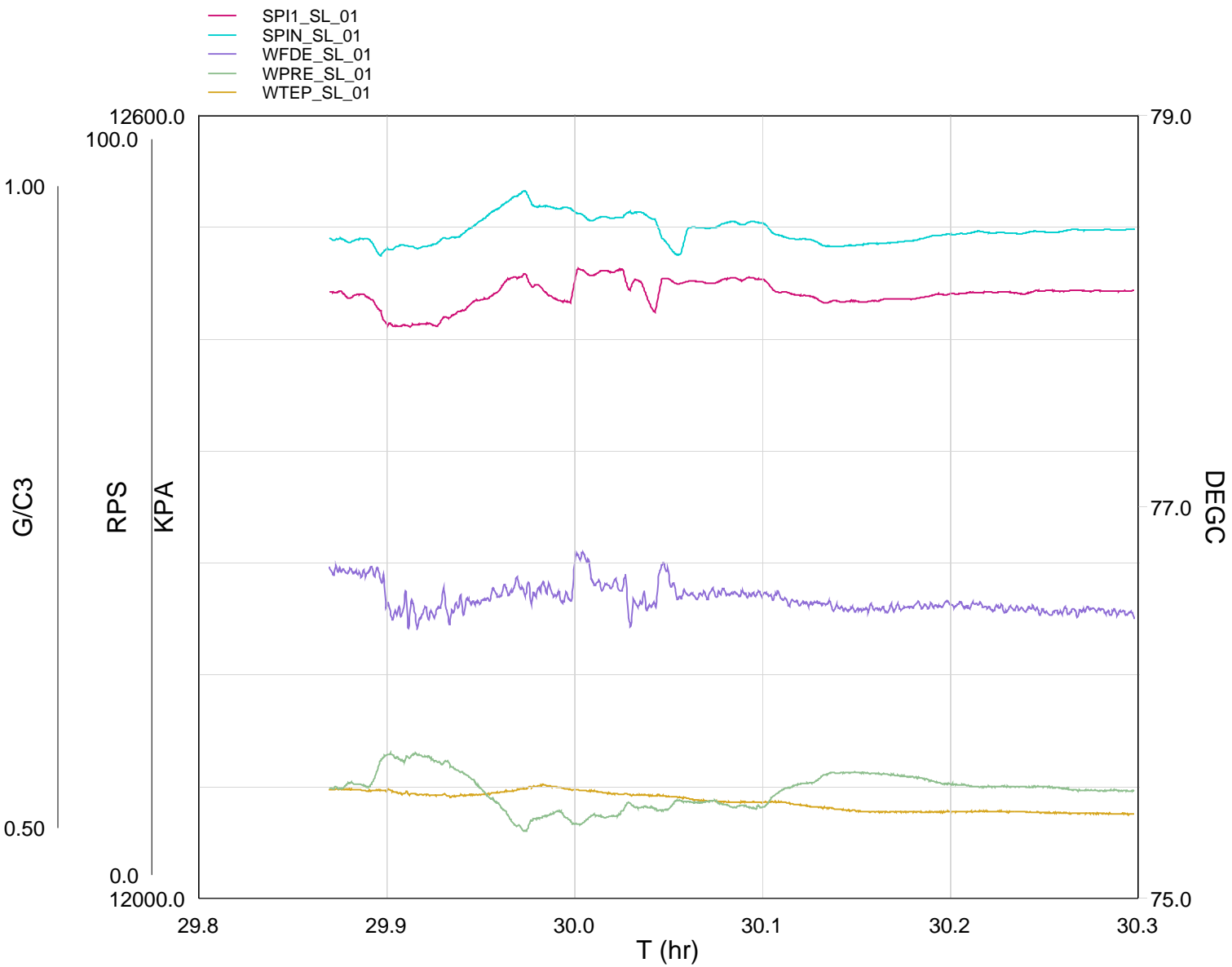
DEFAULT Flip_FCS_ILS_DEFT_095PUP PRODUCER 06-Oct-2005 18:42

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_097PUP FN:13 PRODUCER 06-Oct-2005 18:45

Schlumberger

**Station @ 1350m
Between Flowing Passes**





| TOJ (HR) | SPIN (RPS) | DDFBM (CPS) | DDFHM (-) | WFDE (G/C3) | WPRE (PSIA) | WTEP (DEGF) |
|-------------|---------------|----------------|--------------|----------------|----------------|----------------|
| 29.878 | 84.1 | 71.2 | 0.1448 | 0.7089 | 1752.90 | 168.00 |
| 29.894 | 82.8 | 56.6 | 0.1393 | 0.7098 | 1754.43 | 167.99 |
| 29.911 | 83.4 | 1451.6 | 0.5388 | 0.6787 | 1756.24 | 167.97 |
| 29.928 | 83.9 | 1459.5 | 0.4390 | 0.6860 | 1755.69 | 167.95 |
| 29.944 | 85.6 | 1603.1 | 0.5350 | 0.6889 | 1753.90 | 167.95 |
| 29.961 | 88.5 | 1659.3 | 0.5665 | 0.6935 | 1750.53 | 167.98 |
| 29.978 | 88.6 | 1598.7 | 0.5650 | 0.6938 | 1749.13 | 168.03 |
| 29.994 | 88.3 | 1590.1 | 0.3721 | 0.6895 | 1749.63 | 168.01 |
| 30.011 | 86.8 | 97.8 | 0.0306 | 0.7001 | 1749.68 | 167.98 |
| 30.028 | 87.6 | 553.4 | 0.1367 | 0.6980 | 1750.97 | 167.97 |
| 30.044 | 85.8 | 1231.8 | 0.3344 | 0.7013 | 1750.23 | 167.95 |
| 30.061 | 85.7 | 72.4 | 0.1464 | 0.6933 | 1751.19 | 167.91 |
| 30.078 | 86.1 | 57.6 | 0.1417 | 0.6942 | 1751.00 | 167.89 |
| 30.094 | 86.5 | 39.8 | 0.0109 | 0.6944 | 1750.54 | 167.88 |
| 30.111 | 84.6 | 41.6 | 0.0111 | 0.6907 | 1752.59 | 167.89 |
| 30.128 | 84.0 | 27.3 | 0.0063 | 0.6890 | 1753.41 | 167.84 |
| 30.144 | 83.4 | 29.4 | 0.0068 | 0.6851 | 1754.45 | 167.82 |
| 30.161 | 83.6 | 25.6 | 0.0059 | 0.6854 | 1754.34 | 167.80 |
| 30.178 | 84.0 | 21.9 | 0.1082 | 0.6866 | 1753.98 | 167.80 |
| 30.194 | 84.7 | 15.8 | 0.0037 | 0.6868 | 1753.32 | 167.80 |
| 30.211 | 85.0 | 16.5 | 0.1287 | 0.6875 | 1752.94 | 167.80 |
| 30.228 | 85.1 | 13.3 | 0.0028 | 0.6868 | 1752.95 | 167.80 |
| 30.244 | 85.2 | 14.1 | 0.0032 | 0.6856 | 1752.93 | 167.79 |
| 30.261 | 85.3 | 17.1 | 0.0038 | 0.6863 | 1752.67 | 167.78 |
| 30.278 | 85.4 | 10.9 | 0.0023 | 0.6829 | 1752.46 | 167.78 |
| 30.294 | 85.5 | 12.4 | 0.0027 | 0.6816 | 1752.42 | 167.77 |

Schlumberger

**Station at 1425m
Below Sliding Sleeve – Well Flowing**

MAXIS Field Log

Company: Esso Australia Ltd.

Well: Seahorse # 1

Input DLIS Files

FCS_ILS_DEFT_GMS_032LTP FN:31 06-Oct-2005 18:10 1425.0 M 0.3 M

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_100PTP FN:16 PRODUCER 07-Oct-2005 10:15 1425.0 M 0.3 M

OP System Version: 13C0-300

MCM

| | | | |
|----------|----------|----------|----------|
| PFCS-A | 13C0-300 | PILS-A | 13C0-300 |
| DEFT-C2 | 13C0-300 | PGMC-A/B | 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

Probe1 RB
(D1RB_SL)
(DEG)

PFCS Caliper Y
(PFC2_SL)
8 (IN) 3

Well Fluid Density
(WFDE_SL)
0 (G/C3) 1

PFCS Fluid
Resistivity (DRES_ SL)
0 (OHMM) 360

Filtered Water
Holdup (FHM_SL)
0 (----) 1

PFCS Spinner
(SPIN_SL)
-10 (RPS) 10

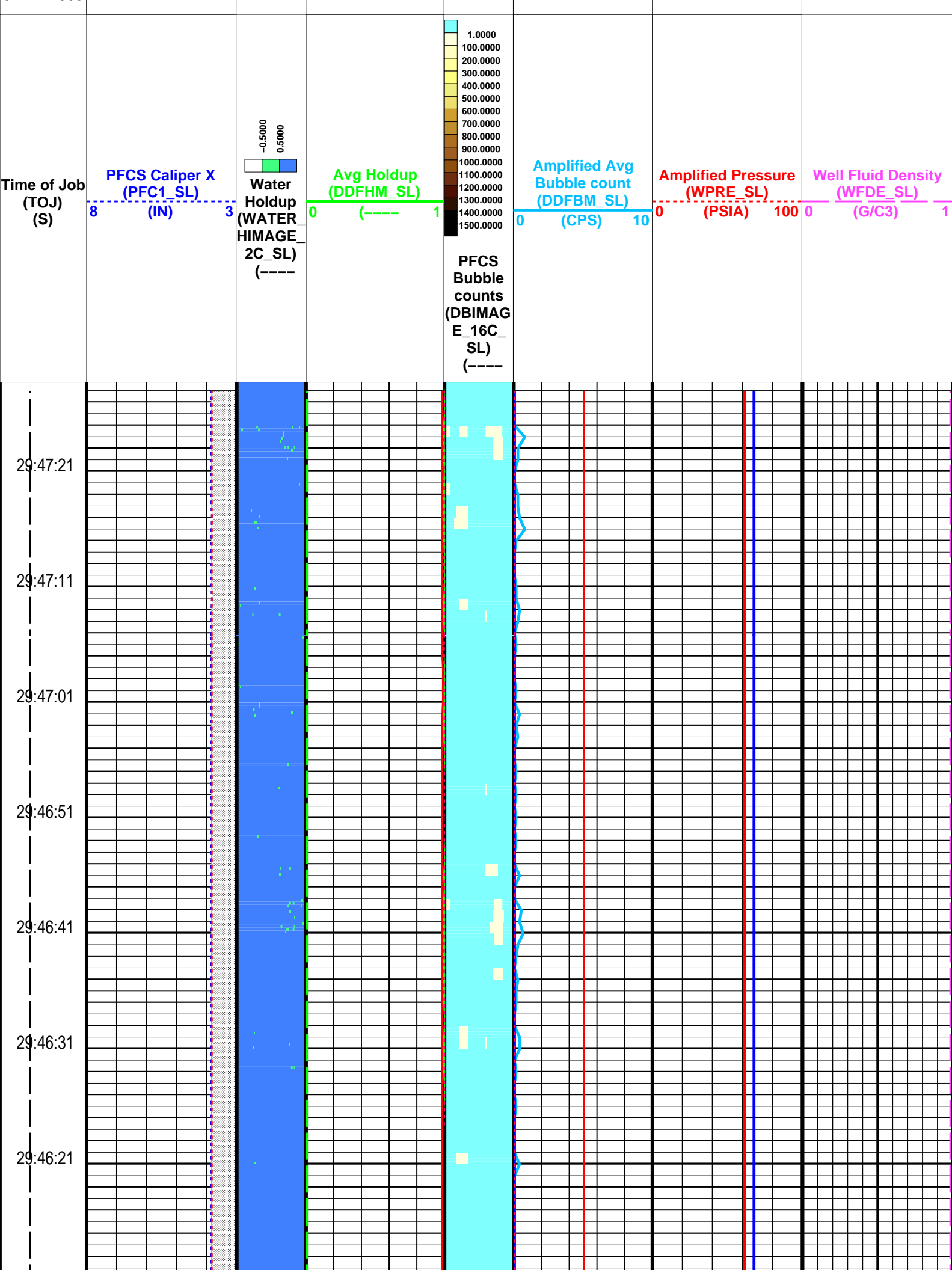
Filtered Bubble
Count (FBM_SL)
0 (CPS) 500

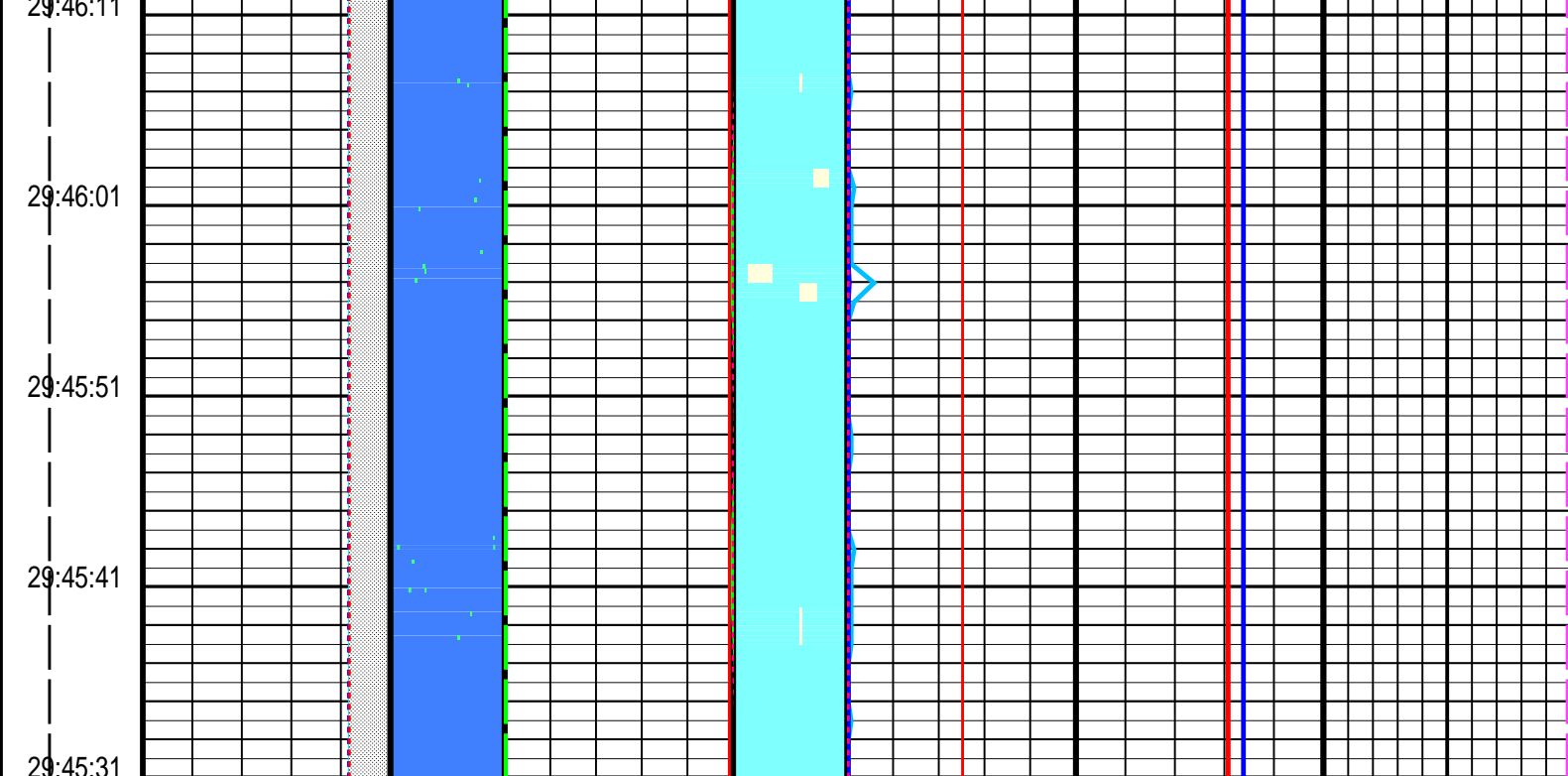
Avg BUB count
(DDFBM_SL)
0 (CPS) 500

Well Temperature
(WTEP_SL)
0 (DEGF) 250

Well Pressure
(WPRE_SL)
0 (PSIA) 3000

Amplified
Temperature
(WTEP_SL)
0 (DEGF) 50





| | | | | | | | |
|---------------------------------|---|--|--|---|---|--|--|
| Time of Job (TOJ) (S) | PFC1 Caliper X (PFC1_SL) 8 (IN) 3 | Water Holdup (WATER HIMAGE 2C_SL) (-----) | Avg Holdup (DDFHM_SL) 0 (-----) 1 | PFC1 Bubble counts (DBIMAG E_16C_ SL) (-----) | Amplified Avg Bubble count (DDFBM_SL) 0 (CPS) 10 | Amplified Pressure (WPRE_SL) 0 (PSIA) 100 | Well Fluid Density (WFDE_SL) 0 (G/C3) 1 |
| Probe1 RB (D1RB_SL) (DEG) | PFC2 Caliper Y (PFC2_SL) 8 (IN) 3 | | Filtered Water Holdup (FHM_SL) 0 (-----) 1 | | Avg BUB count (DDFBM_SL) 0 (CPS) 500 | Amplified Temperature (WTEP_SL) 0 (DEGF) 50 | |
| | Well Diameter From PFC1 to PFC2_T1 | | PFC2 Fluid Resistivity (DRES_ SL) 0 (OHMM) 360 | | Filtered Bubble Count (FBM_SL) 0 (CPS) 500 | Well Pressure (WPRE_SL) 0 (PSIA) 3000 | |
| | Well Diameter From PFC2 to PFC2_T1 | | Well Fluid Density (WFDE_SL) 0 (G/C3) 1 | | PFC2 Spinner (SPIN_SL) -10 (RPS) 10 | Well Temperature (WTEP_SL) 0 (DEGF) 250 | |
| | Pipe Ovalisation Between PFC1 and PFC2 | | | | | | |

Format: PFC1_GHOST_Image_SL Vertical Scale: 1" per 10S Graphics File Created: 07-Oct-2005 10:15

| | | | |
|----------|----------|----------|----------|
| DEFT-C2 | 13C0-300 | PGMC-A/B | 13C0-300 |
| PSPT-A/B | 13C0-300 | | |

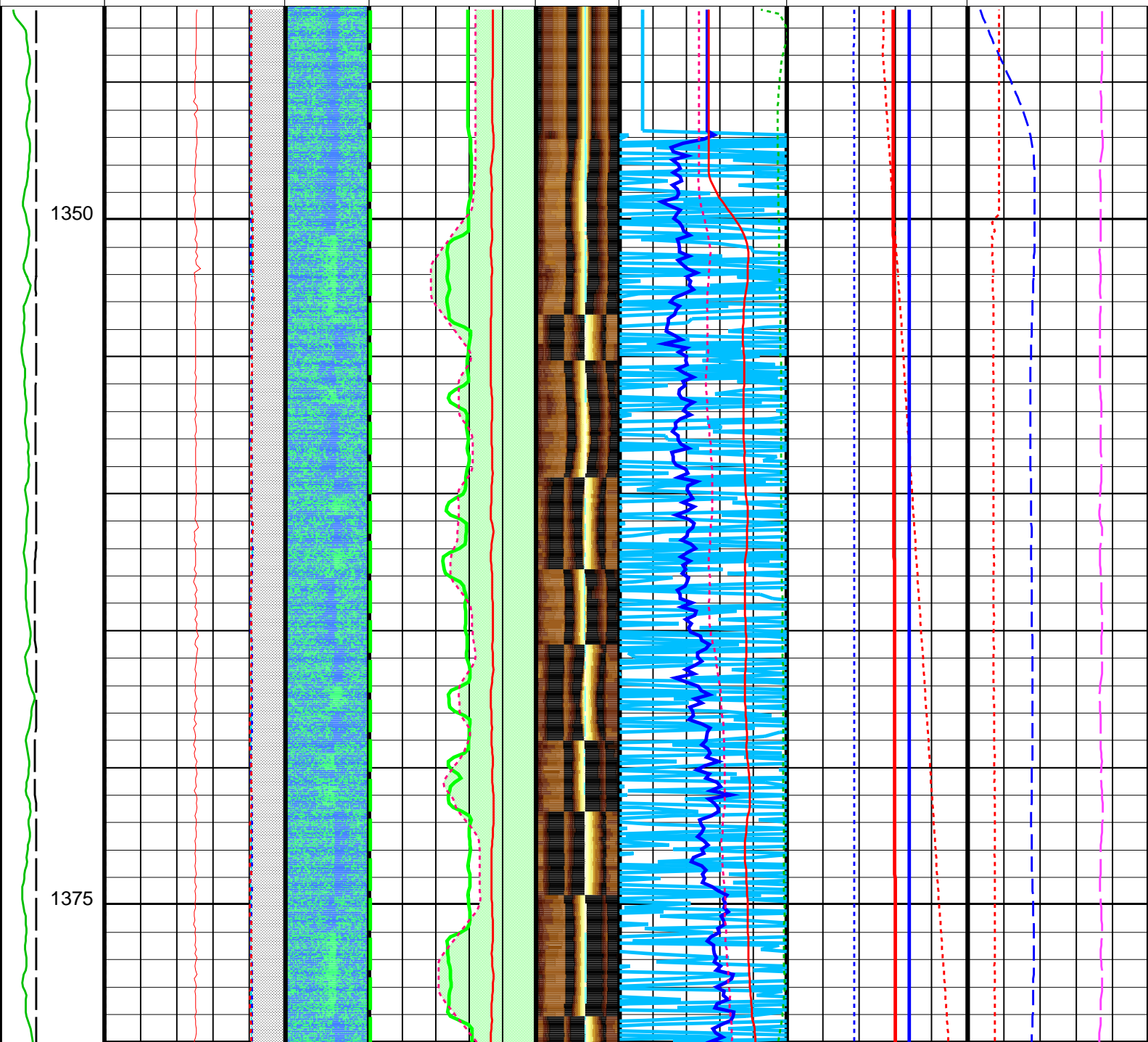
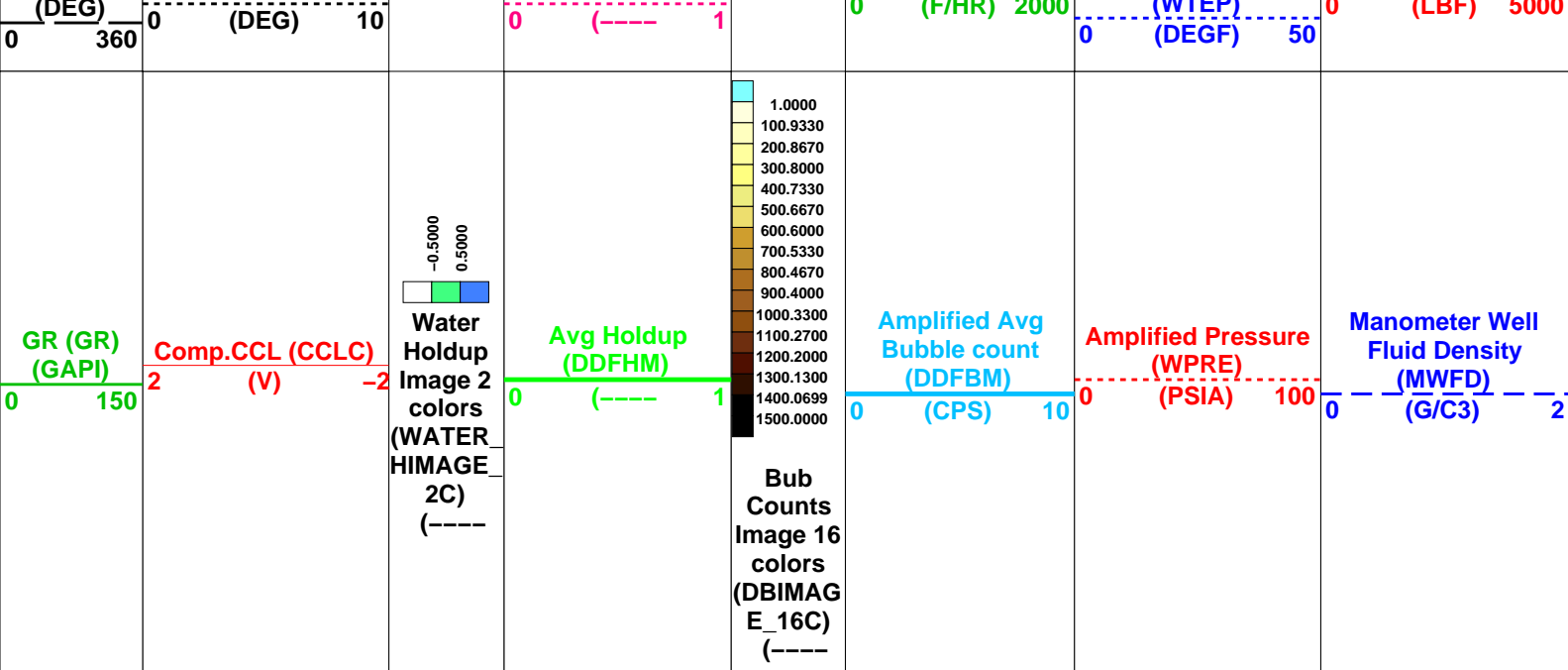
| Parameters | | | | |
|--|---|----------------|------|--|
| DLIS Name | Description | Value | | |
| PFCS-A: PSP Flow and caliper Tool | | | | |
| AMOD | Spinner Filter Averaging Mode | LINEAR_AVERAGE | | |
| CSID | Casing Size I.D. | 3.958 | IN | |
| DDRC | Dual DEFT DELTA RB COMPUTATION | D1RB2-D1RB | | |
| 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 | 0 | DEG | |
| PFGC | PFCS Geometrical coefficient | 1200 | | |
| PFRE1 | Downhole Resistor Probe 1 | 5000 | OHMS | |
| PFRE2 | Downhole Resistor Probe 2 | 5000 | OHMS | |
| PFRE3 | Downhole Resistor Probe 3 | 5000 | OHMS | |
| PFRE4 | Downhole Resistor Probe 4 | 5000 | OHMS | |
| SDCF | Spinner Depth Constant Filter | 6 | | |
| 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 | | |
| 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 | | |
| PFGC | PFCS Geometrical coefficient | 1200 | | |
| PGMC-A/B: PSP Gradiomanometer Measurement Module | | | | |
| CSID | Casing Size I.D. | 3.958 | IN | |
| GCPG | Gradio Surf.Cal Diff.Pres Gain | 1 | | |
| GCPD | Gradio Surf.Cal Diff.Pres Offset | 0 | KPAA | |
| PDSH | Gradio Correction Density Shift | 0 | LB/G | |
| PSPT-A/B: Production Services Logging Platform | | | | |
| CSID | Casing Size I.D. | 3.958 | IN | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG | |
| BORDYN: BorDyn (Well Test Validation) | | | | |
| CSID | Casing Size I.D. | 3.958 | IN | |
| System and Miscellaneous | | | | |
| PP | Playback Processing | RECOMPUTE | | |

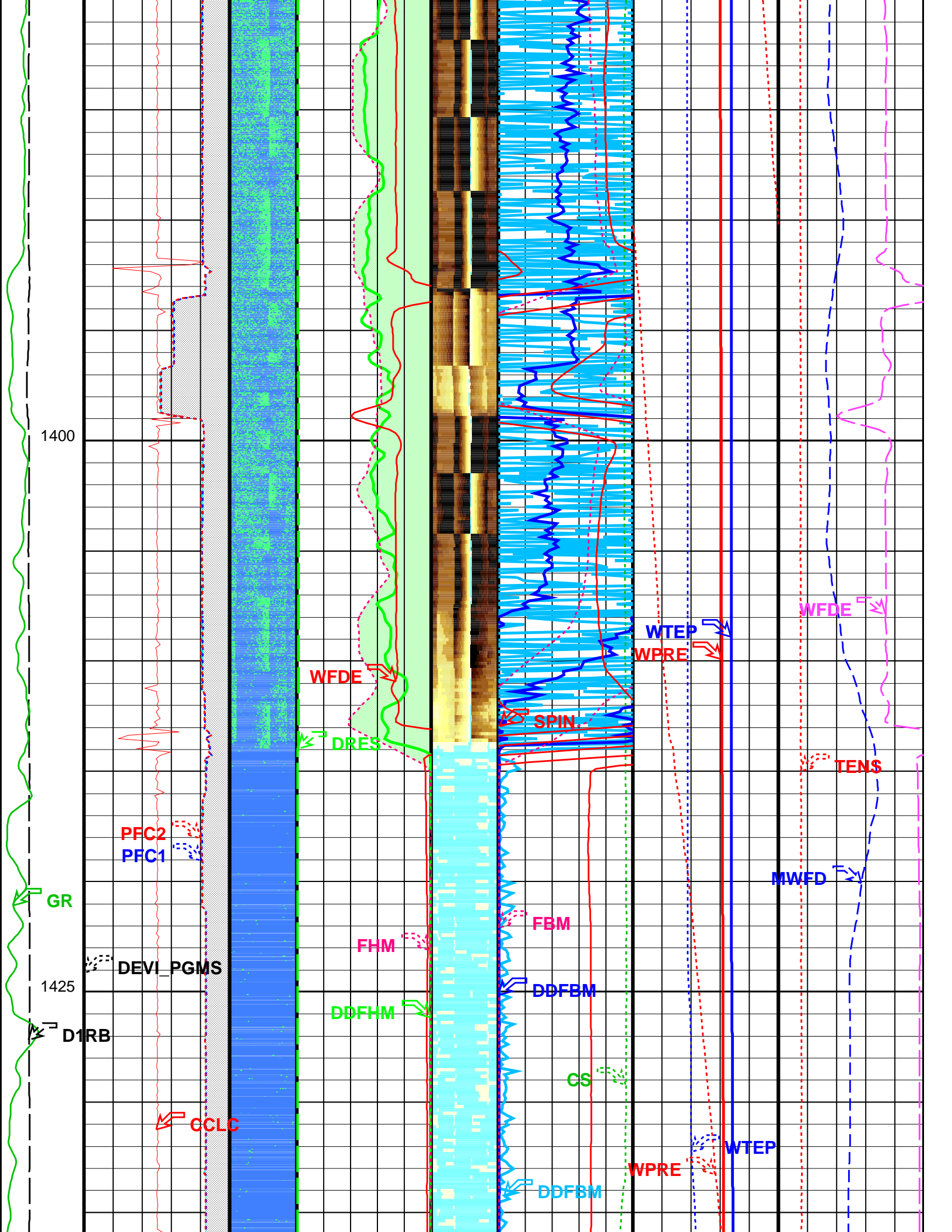
| Input DLIS Files | | | | | |
|-------------------|-------------------------|-------|-------------------|-------------------|-------|
| | FCS_ILS_DEFT_GMS_032LTP | FN:31 | 06-Oct-2005 18:10 | 1425.0 M | 0.3 M |
| Output DLIS Files | | | | | |
| DEFAULT | FCS_ILS_DEFT_GMS_100PTP | FN:16 | PRODUCER | 07-Oct-2005 10:15 | |

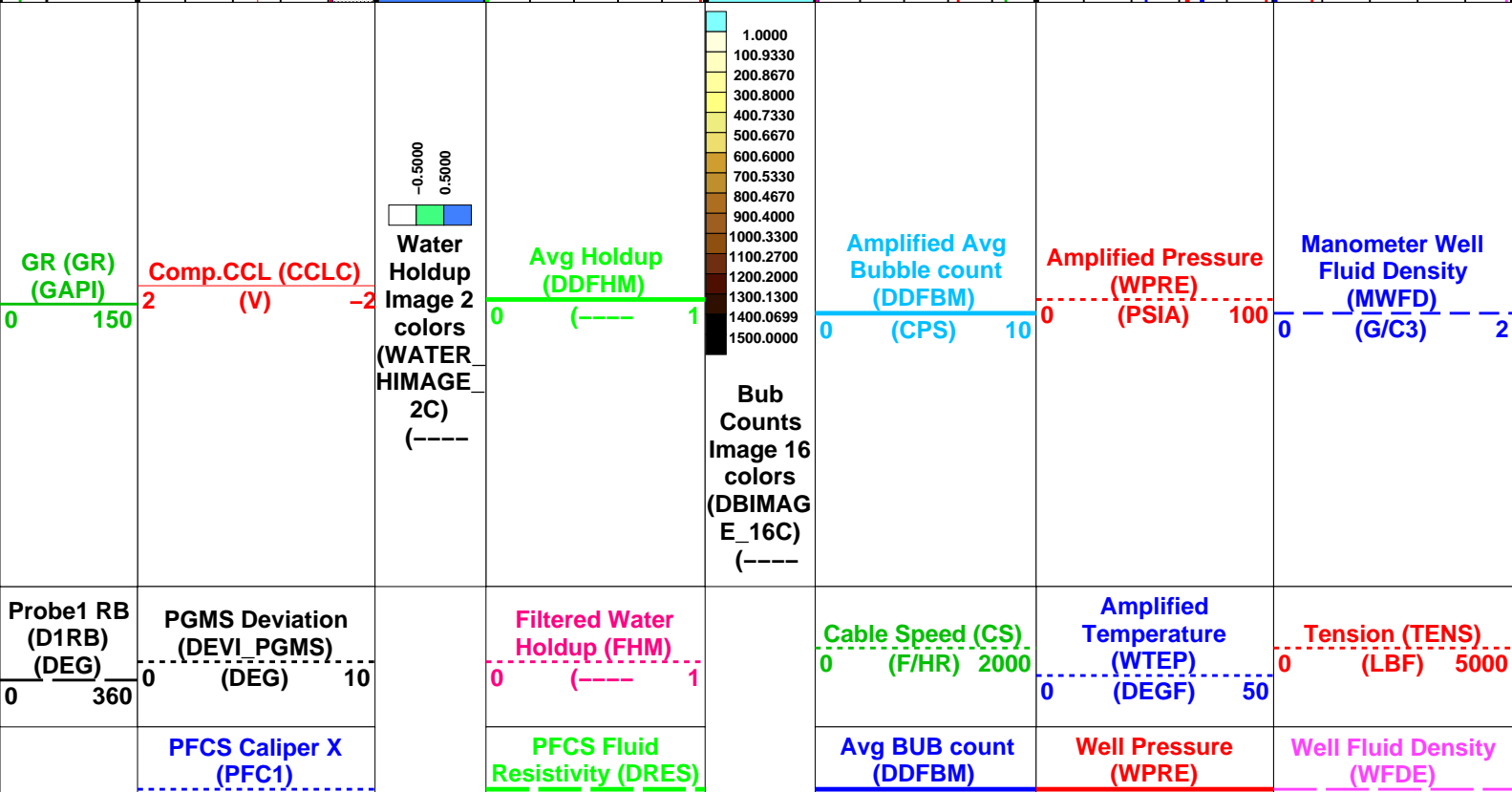
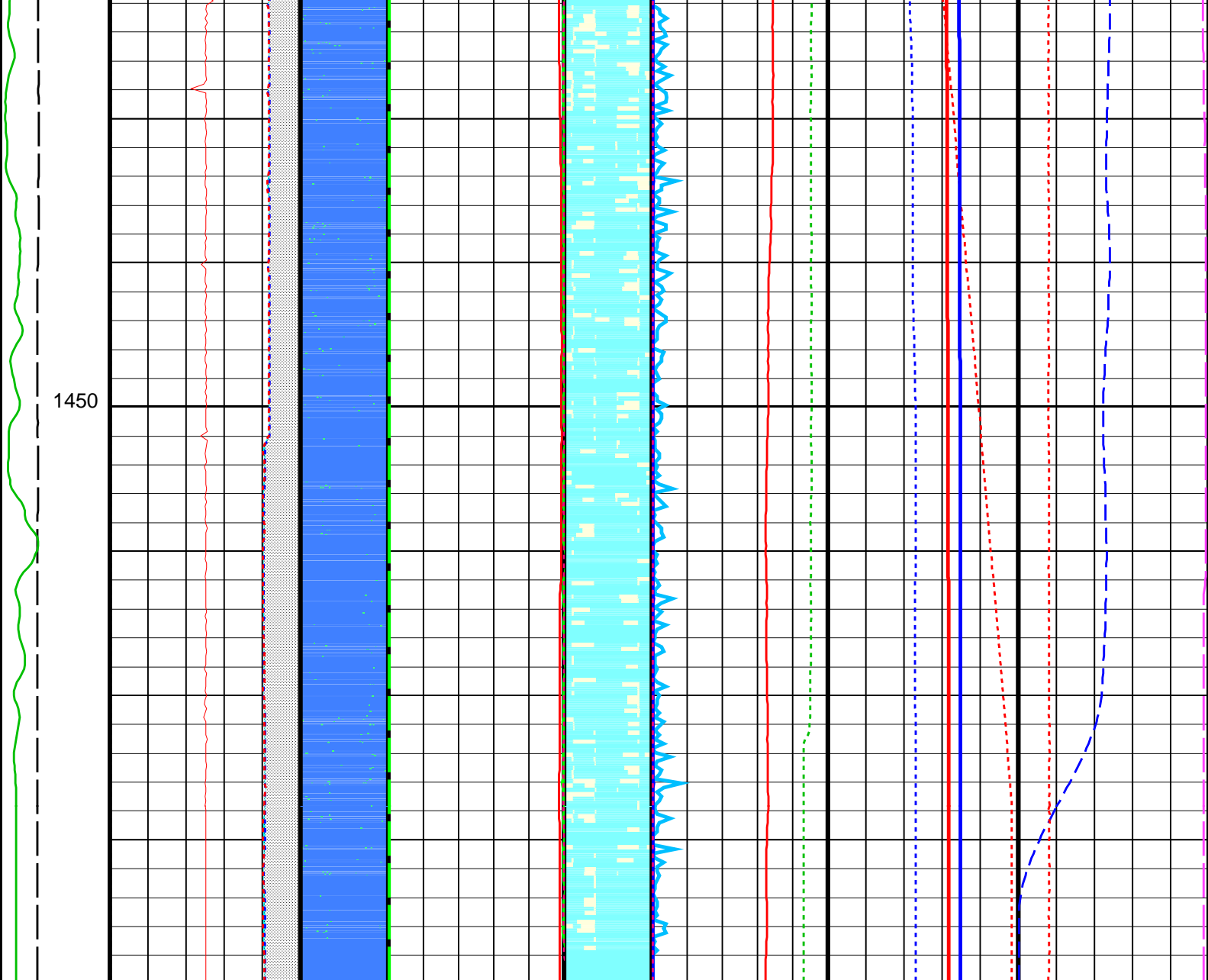
| | | | | | | |
|------|-------|-------|-------|--------|--------|--------|
| TOJ | SPIN | DDFBM | DDFHM | WFDE | WPRES | WTEP |
| (HR) | (RPS) | (CPS) | (-) | (G/C3) | (PSIA) | (DEGF) |

| | | | | | | |
|--------|-----|-----|--------|--------|---------|--------|
| 29.759 | 0.0 | 0.0 | 1.0000 | 0.9796 | 1834.01 | 168.63 |
| 29.761 | 0.0 | 0.1 | 0.9980 | 0.9799 | 1834.05 | 168.62 |
| 29.764 | 0.0 | 0.0 | 1.0000 | 0.9803 | 1834.29 | 168.62 |
| 29.767 | 0.0 | 0.1 | 0.9960 | 0.9803 | 1834.44 | 168.62 |
| 29.770 | 0.0 | 0.0 | 1.0000 | 0.9806 | 1834.36 | 168.62 |
| 29.773 | 0.0 | 0.4 | 0.9976 | 0.9801 | 1834.17 | 168.62 |
| 29.775 | 0.0 | 0.4 | 0.9931 | 0.9811 | 1834.16 | 168.61 |
| 29.778 | 0.0 | 0.6 | 0.9838 | 0.9795 | 1834.09 | 168.61 |
| 29.781 | 0.0 | 0.1 | 0.9968 | 0.9804 | 1834.22 | 168.61 |
| 29.784 | 0.0 | 0.0 | 1.0000 | 0.9814 | 1834.56 | 168.59 |
| 29.786 | 0.0 | 0.1 | 0.9988 | 0.9800 | 1834.37 | 168.59 |

Tension (TENS)







| | | | | |
|--|---------------------------|-----------------------------|-------------------------|------------|
| 8 (IN) 3 | 0 (OHMM) 360 | 0 (CPS) 500 | 0 (PSIA) 3000 | 0 (G/C3) 1 |
| PFCS Caliper Y (PFC2) | Well Fluid Density (WFDE) | Filtered Bubble Count (FBM) | Well Temperature (WTEP) | |
| 8 (IN) 3 | 0 (G/C3) 1 | 0 (CPS) 500 | 0 (DEGF) 250 | |
| Well Diameter From PFC1 to PFC5_T1 | | PFCS Spinner (SPIN) | | |
| | | -10 (RPS) 10 | | |
| Well Diameter From PFC2 to PFC5_T1 | | | | |
| Pipe Ovalisation Between PFC1 and PFC2 | | | | |

Format: PFCS_Image_DL

Vertical Scale: 1:200

Graphics File Created: 06-Oct-2005 17:58

OP System Version: 13C0-300

MCM

PFCS-A13C0-300PILS-A13C0-300

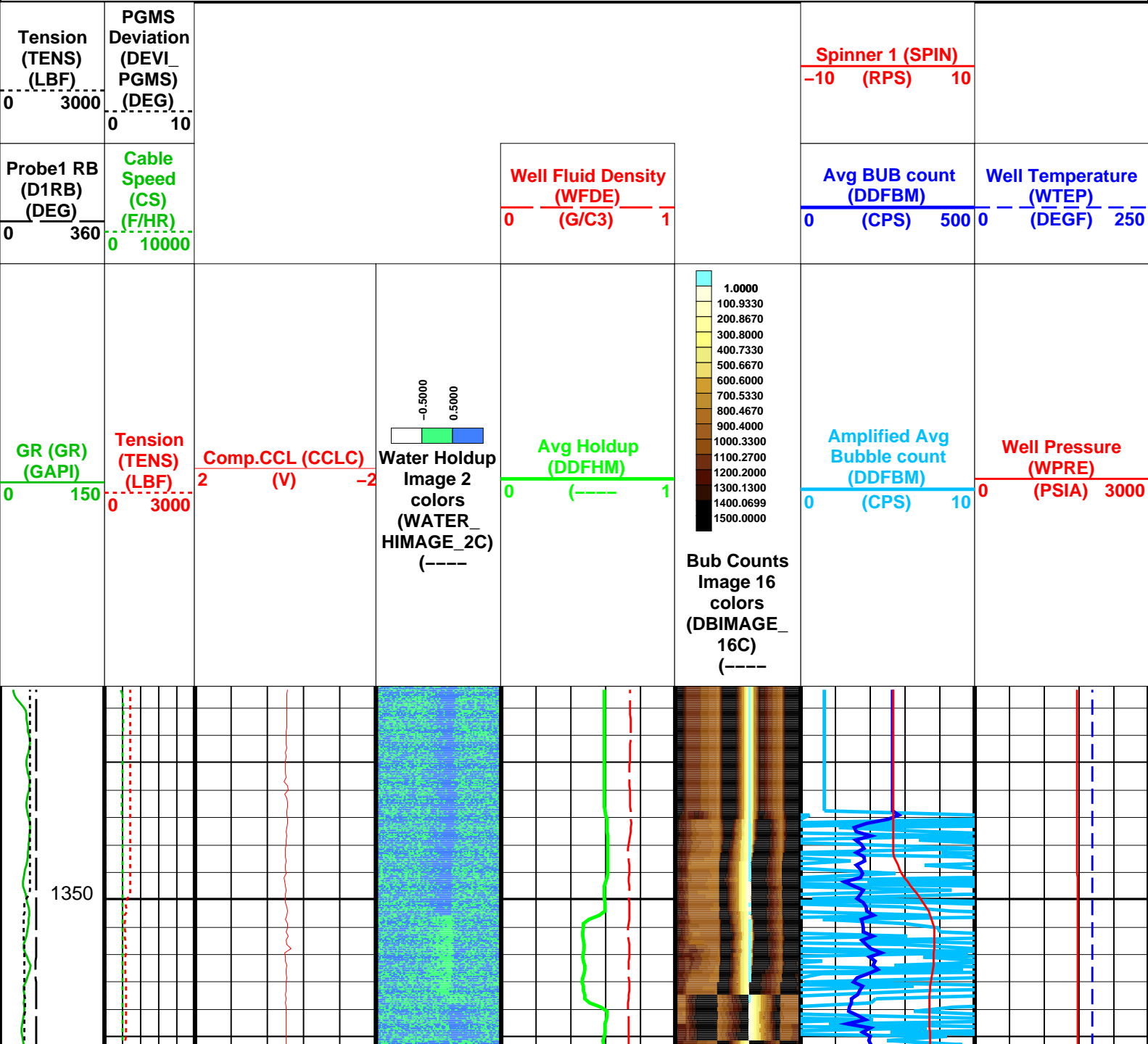
DEFT-C213C0-300PGMC-A/B13C0-300

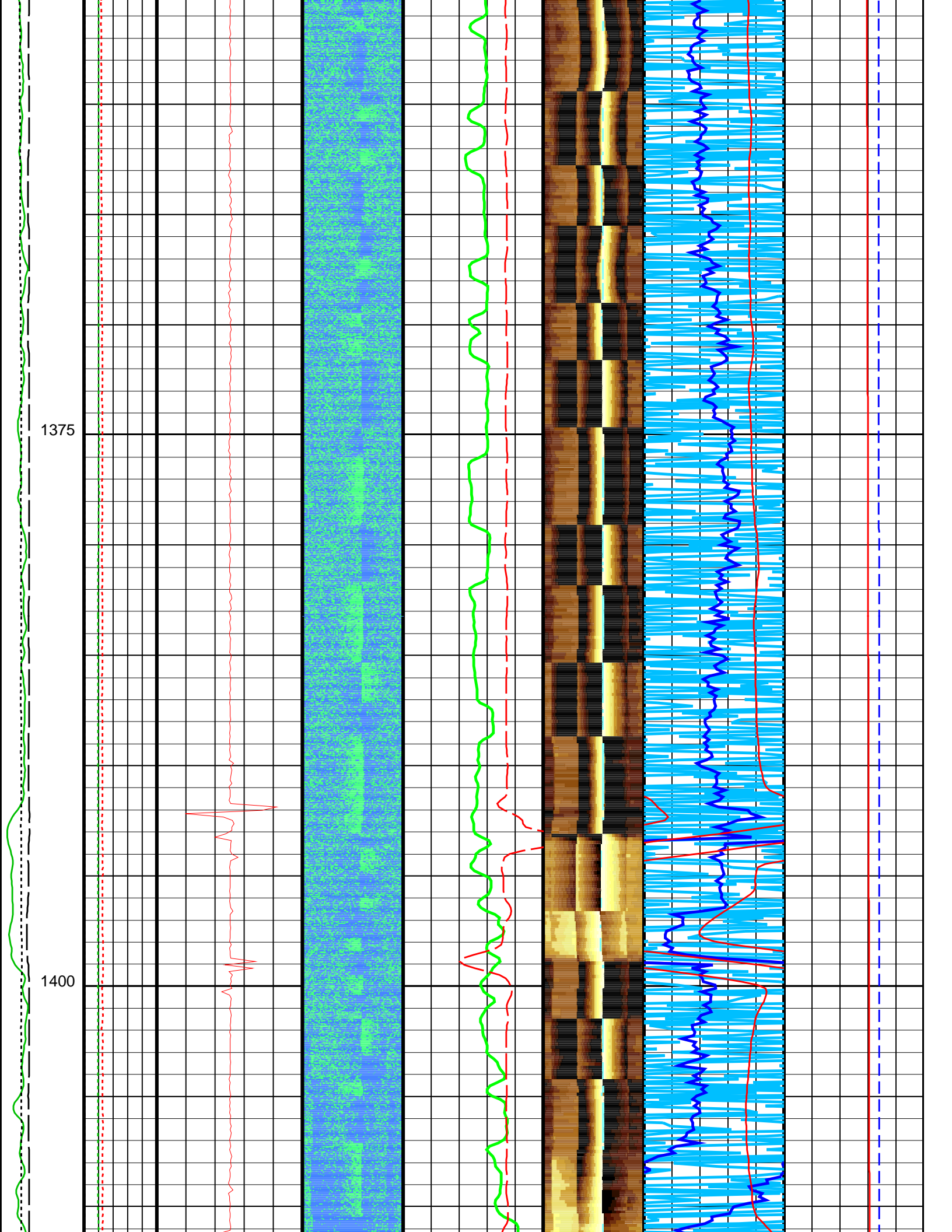
PSPT-A/B13C0-300

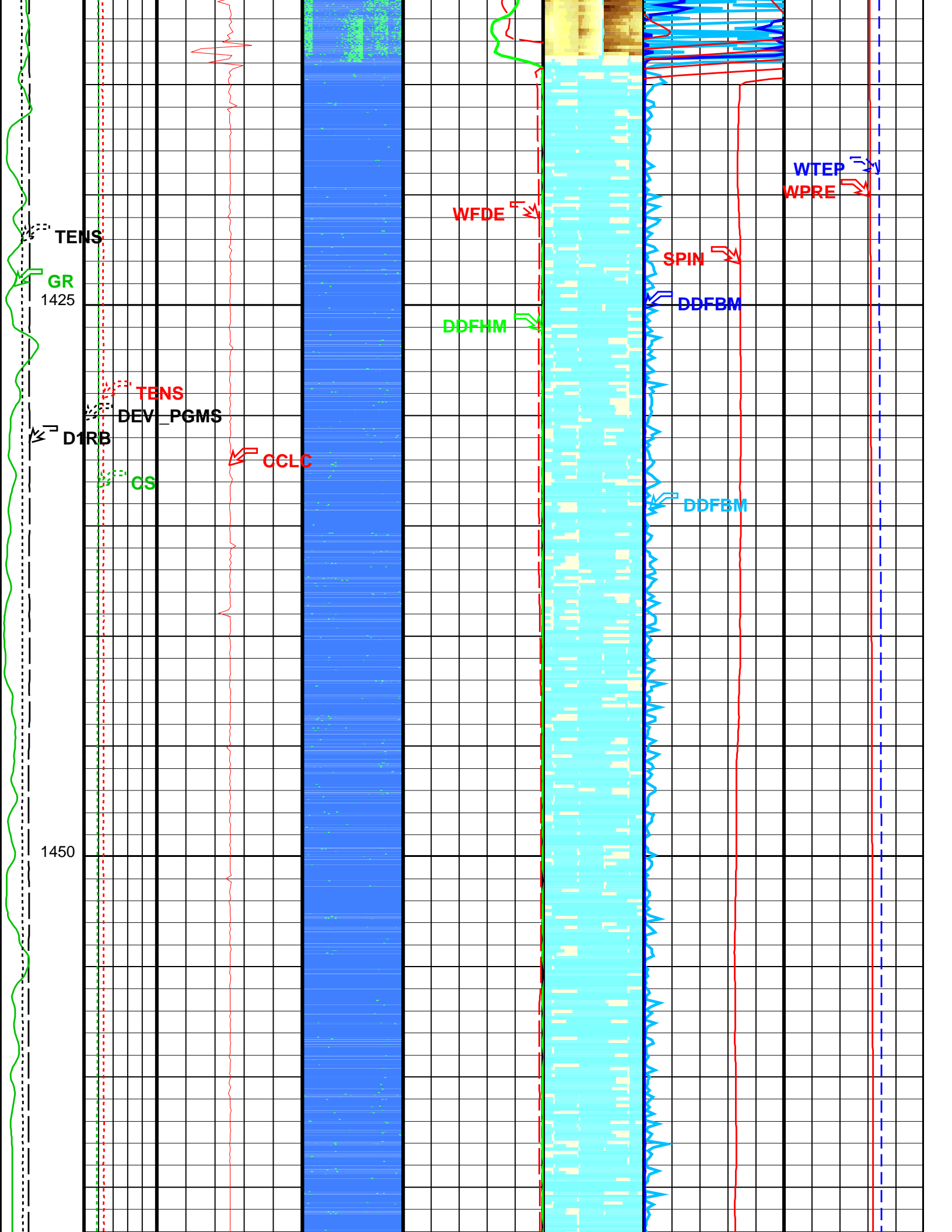
Parameters

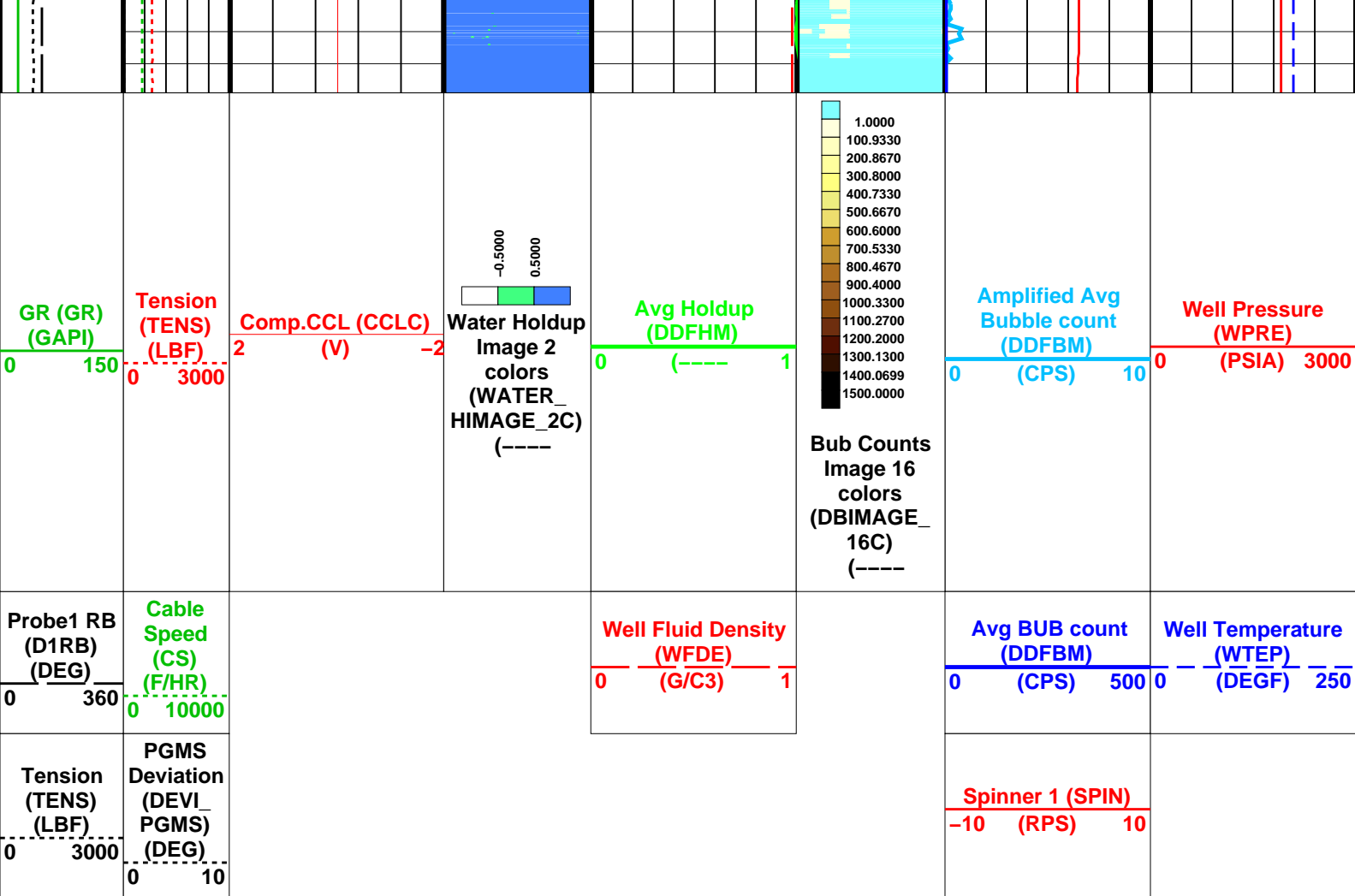
| DLIS Name | Description | Value |
|--|---|----------------|
| PFCS-A: PSP Flow and caliper Tool | | |
| AMOD | Spinner Filter Averaging Mode | LINEAR_AVERAGE |
| CSID | Casing Size I.D. | 3.958IN |
| DDRC | Dual DEFT DELTA RB COMPUTATION | D1RB2-D1RB |
| DDRS | Dual DEFT RB Source | D1RB |
| DFBD | 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 | 0DEG |
| PFGC | PFCS Geometrical coefficient | 1200 |
| PFRE1 | Downhole Resistor Probe 1 | 5000OHMS |
| PFRE2 | Downhole Resistor Probe 2 | 5000OHMS |
| PFRE3 | Downhole Resistor Probe 3 | 5000OHMS |
| PFRE4 | Downhole Resistor Probe 4 | 5000OHMS |
| SDCF | Spinner Depth Constant Filter | 6 |
| 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 |
| SPIN | Main Spinner Flowmeter Sonde | PFCS-A_2.5 |
| DEFT-C2: DEFT_C Tool | | |
| CSID | Casing Size I.D. | 3.958IN |
| 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 |
| PFGC | PFCS Geometrical coefficient | 1200 |
| PGMC-A/B: PSP Gradiomanometer Measurement Module | | |
| CSID | Casing Size I.D. | 3.958IN |
| GCPG | Gradio Surf.Cal Diff.Pres Gain | 1 |
| GCPO | Gradio Surf.Cal Diff.Pres Offset | 0KPAA |
| PDSH | Gradio Correction Density Shift | 0LB/G |
| PSPT-A/B: Production Services Logging Platform | | |
| CSID | Casing Size I.D. | 3.958IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0DEG |
| BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958IN |
| System and Miscellaneous | | |
| DO | Depth Offset for Playback | -0.2M |
| PP | Playback Processing | RECOMPUTE |

Input DLIS Files









Format: DEFT_Image_DL Vertical Scale: 1:200 Graphics File Created: 06-Oct-2005 17:58

OP System Version: 13C0-300

MCM

| | | | |
|----------|----------|----------|----------|
| PFCS-A | 13C0-300 | PILS-A | 13C0-300 |
| DEFT-C2 | 13C0-300 | PGMC-A/B | 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. | 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 | 0 DEG |
| SDCF | Spinner Depth Constant Filter | 6 |
| 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 |
| 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/B: 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 | LB/G |
| | PSPT-A/B: Production Services Logging Platform | | |
| CSID | Casing Size I.D. | 3.958 | IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| | BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958 | IN |
| | System and Miscellaneous | | |
| DO | Depth Offset for Playback | -0.2 | M |
| PP | Playback Processing | RECOMPUTE | |

Input DLIS Files

DEFAULT Flip_FCS_ILS_DEFT_081LUP PRODUCER 06-Oct-2005 17:54

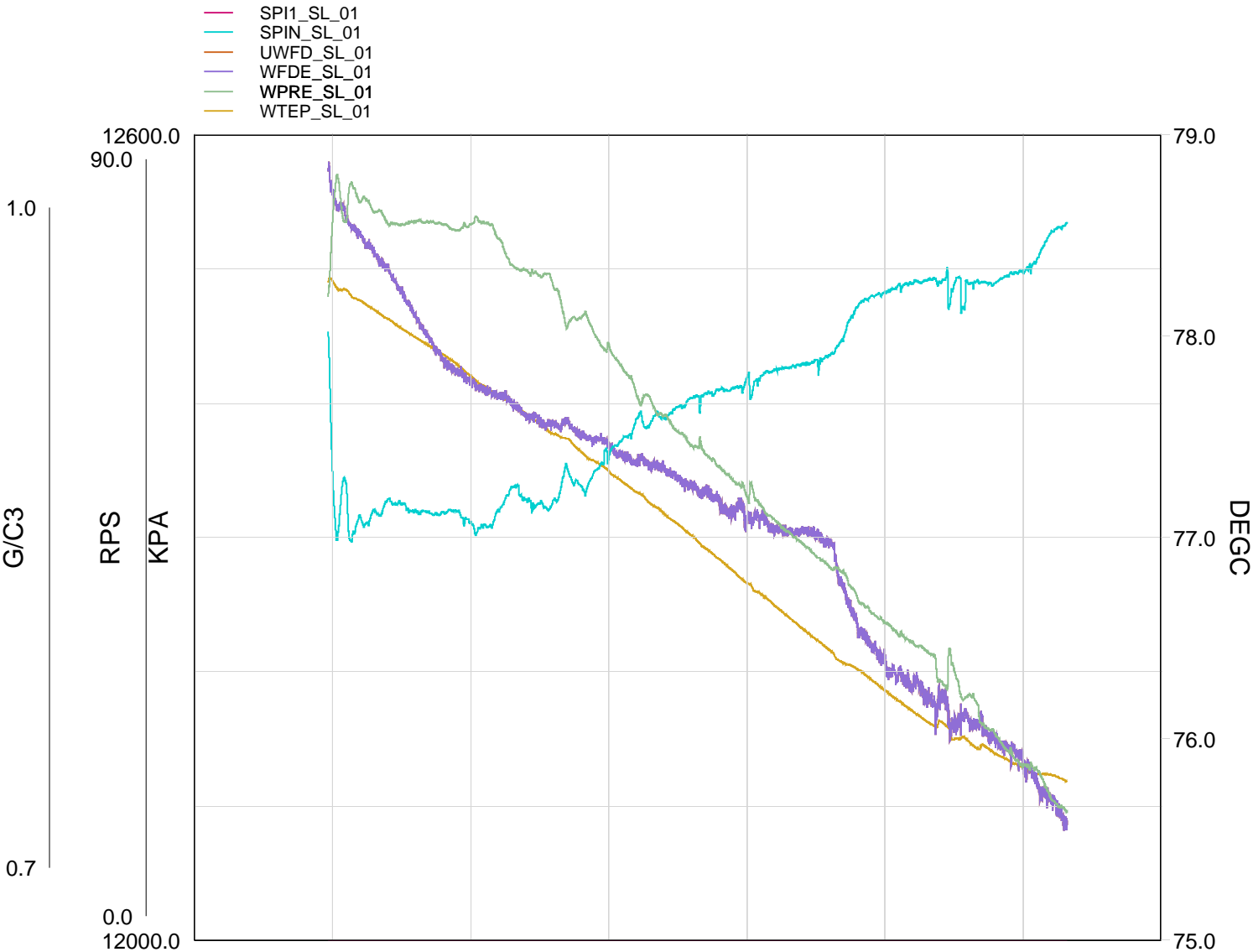
Output DLIS Files

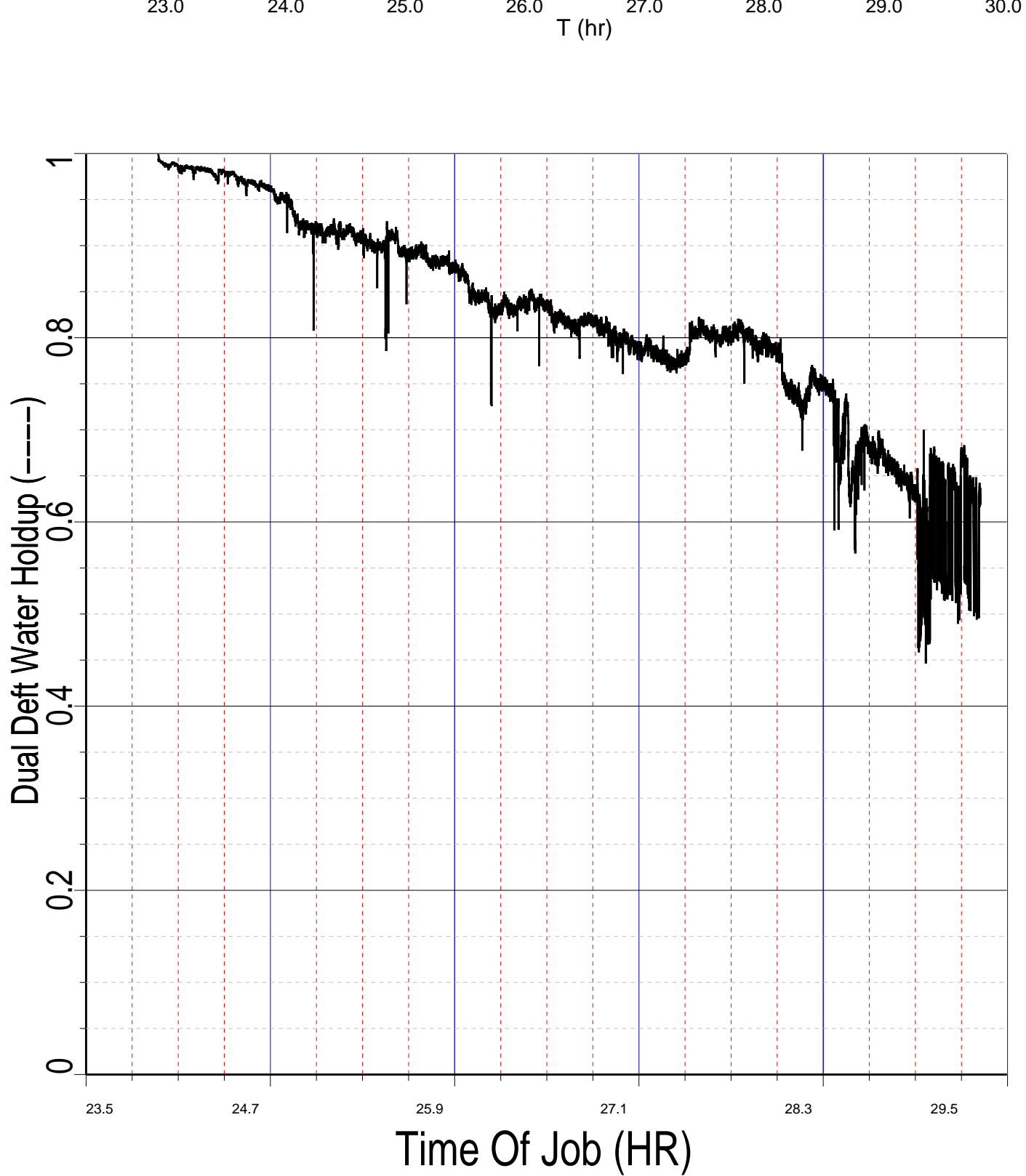
DEFAULT FCS_ILS_DEFT_GMS_082PUP FN:10 PRODUCER 06-Oct-2005 17:58



Stations @ 1350m
Monitoring well flow

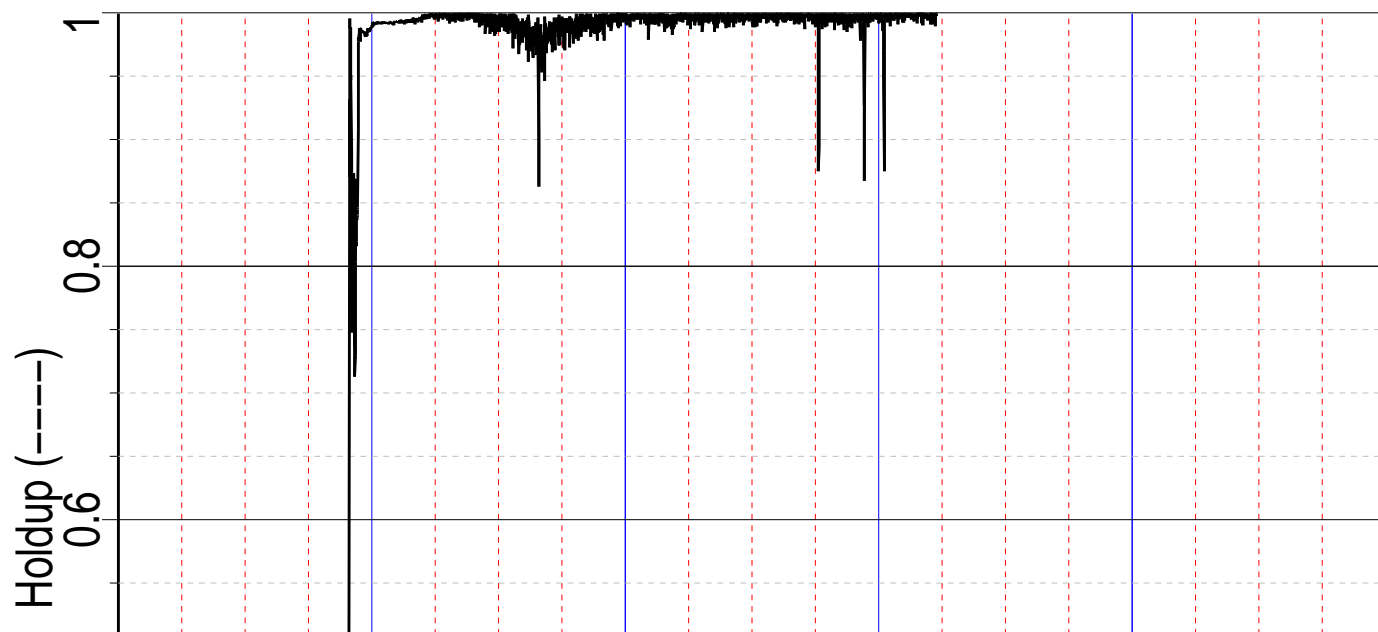
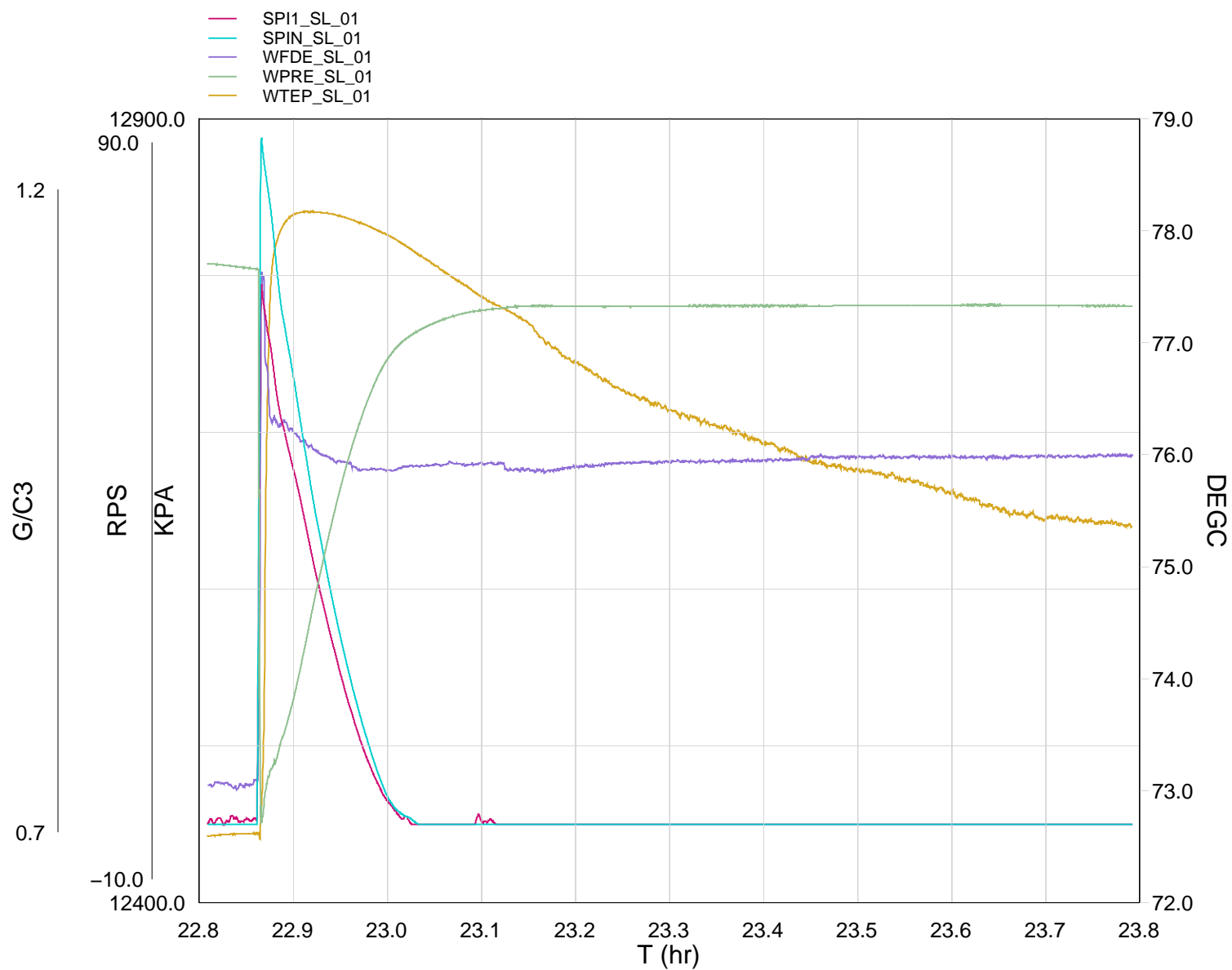
MAXIS Field Log





| TOJ (HR) | SPIN (RPS) | DDFBM (CPS) | DDFHM (-) | WFDE (G/C3) | WPRE (PSIA) | WTEP (DEGF) |
|-------------|---------------|----------------|--------------|----------------|----------------|----------------|
| 23.970 | 68.1 | 15.1 | 0.9991 | 0.9867 | 1809.99 | 172.89 |
| 24.029 | 44.7 | 54.6 | 0.9878 | 0.9736 | 1823.00 | 172.84 |
| 24.113 | 47.2 | 72.6 | 0.9822 | 0.9671 | 1820.26 | 172.80 |
| 24.196 | 47.5 | 70.8 | 0.9824 | 0.9630 | 1820.15 | 172.72 |
| 24.279 | 47.4 | 66.1 | 0.9831 | 0.9588 | 1819.66 | 172.66 |
| 24.363 | 48.0 | 97.2 | 0.9709 | 0.9530 | 1818.91 | 172.59 |
| 24.446 | 48.6 | 94.8 | 0.9791 | 0.9460 | 1817.96 | 172.52 |
| 24.529 | 48.7 | 130.8 | 0.9694 | 0.9387 | 1817.85 | 172.45 |
| 24.613 | 47.8 | 149.8 | 0.9656 | 0.9301 | 1818.22 | 172.39 |

| | | | | | | |
|--------|------|--------|--------|--------|---------|--------|
| 24.779 | 47.6 | 195.2 | 0.9576 | 0.9184 | 1817.94 | 172.26 |
| 24.863 | 48.0 | 253.5 | 0.9331 | 0.9141 | 1817.32 | 172.19 |
| 24.946 | 47.1 | 271.0 | 0.9272 | 0.9101 | 1817.56 | 172.10 |
| 25.029 | 45.8 | 285.4 | 0.9148 | 0.9076 | 1818.24 | 172.02 |
| 25.113 | 46.5 | 287.1 | 0.9198 | 0.9046 | 1817.89 | 171.94 |
| 25.196 | 48.1 | 316.4 | 0.9154 | 0.9033 | 1816.35 | 171.88 |
| 25.279 | 49.9 | 348.3 | 0.9063 | 0.9016 | 1814.00 | 171.83 |
| 25.363 | 49.8 | 371.2 | 0.9031 | 0.8980 | 1812.84 | 171.75 |
| 25.446 | 47.8 | 385.4 | 0.8959 | 0.8949 | 1812.96 | 171.66 |
| 25.529 | 48.4 | 325.8 | 0.9087 | 0.8931 | 1812.46 | 171.59 |
| 25.613 | 49.3 | 391.8 | 0.8914 | 0.8925 | 1810.79 | 171.53 |
| 25.696 | 53.2 | 434.9 | 0.8966 | 0.8935 | 1806.60 | 171.49 |
| 25.779 | 51.1 | 439.3 | 0.8852 | 0.8878 | 1807.60 | 171.39 |
| 25.863 | 51.3 | 434.5 | 0.8888 | 0.8863 | 1807.16 | 171.30 |
| 25.946 | 53.4 | 466.1 | 0.8677 | 0.8859 | 1804.69 | 171.25 |
| 26.029 | 55.2 | 490.1 | 0.8504 | 0.8832 | 1803.78 | 171.16 |
| 26.113 | 56.2 | 511.6 | 0.8471 | 0.8795 | 1801.98 | 171.09 |
| 26.196 | 57.9 | 563.1 | 0.8296 | 0.8766 | 1799.83 | 171.01 |
| 26.279 | 57.3 | 566.9 | 0.8287 | 0.8784 | 1799.44 | 170.93 |
| 26.363 | 58.8 | 590.5 | 0.8363 | 0.8761 | 1797.24 | 170.86 |
| 26.446 | 59.0 | 585.5 | 0.8401 | 0.8748 | 1796.43 | 170.77 |
| 26.529 | 59.7 | 623.7 | 0.8298 | 0.8724 | 1795.17 | 170.70 |
| 26.613 | 60.7 | 666.7 | 0.8186 | 0.8691 | 1793.74 | 170.61 |
| 26.696 | 61.1 | 685.3 | 0.8141 | 0.8676 | 1793.06 | 170.51 |
| 26.779 | 61.4 | 684.0 | 0.8235 | 0.8639 | 1792.01 | 170.43 |
| 26.863 | 61.4 | 660.4 | 0.8108 | 0.8588 | 1790.79 | 170.34 |
| 26.946 | 61.9 | 746.9 | 0.8049 | 0.8644 | 1789.80 | 170.25 |
| 27.029 | 60.6 | 689.7 | 0.7993 | 0.8570 | 1789.84 | 170.18 |
| 27.113 | 63.0 | 763.7 | 0.7864 | 0.8580 | 1787.21 | 170.09 |
| 27.196 | 63.6 | 759.3 | 0.7797 | 0.8534 | 1786.06 | 170.00 |
| 27.279 | 64.0 | 788.0 | 0.7774 | 0.8536 | 1784.89 | 169.92 |
| 27.363 | 64.3 | 795.5 | 0.7731 | 0.8522 | 1783.80 | 169.83 |
| 27.446 | 64.4 | 797.3 | 0.8066 | 0.8507 | 1782.92 | 169.75 |
| 27.529 | 64.7 | 767.7 | 0.8086 | 0.8495 | 1781.76 | 169.66 |
| 27.613 | 65.6 | 803.2 | 0.7998 | 0.8489 | 1780.65 | 169.58 |
| 27.696 | 67.3 | 786.7 | 0.8057 | 0.8327 | 1780.09 | 169.49 |
| 27.779 | 70.1 | 826.0 | 0.8097 | 0.8203 | 1778.30 | 169.44 |
| 27.863 | 71.7 | 815.6 | 0.7991 | 0.8147 | 1776.47 | 169.37 |
| 27.946 | 72.1 | 866.8 | 0.7960 | 0.8063 | 1775.43 | 169.29 |
| 28.029 | 72.6 | 885.7 | 0.7730 | 0.7995 | 1774.51 | 169.20 |
| 28.113 | 73.2 | 921.3 | 0.7499 | 0.8008 | 1773.34 | 169.13 |
| 28.196 | 73.3 | 962.4 | 0.7422 | 0.7953 | 1772.73 | 169.06 |
| 28.279 | 73.6 | 992.0 | 0.7498 | 0.7908 | 1772.04 | 168.98 |
| 28.363 | 74.0 | 1029.8 | 0.7434 | 0.7903 | 1771.32 | 168.92 |
| 28.446 | 74.2 | 931.5 | 0.7189 | 0.7899 | 1767.93 | 168.92 |
| 28.529 | 74.0 | 995.1 | 0.6857 | 0.7783 | 1768.57 | 168.80 |
| 28.613 | 73.3 | 1089.6 | 0.6755 | 0.7821 | 1766.99 | 168.78 |
| 28.696 | 73.5 | 1175.7 | 0.6618 | 0.7817 | 1763.96 | 168.73 |
| 28.779 | 73.1 | 1199.6 | 0.6563 | 0.7740 | 1763.27 | 168.69 |
| 28.863 | 74.0 | 1192.8 | 0.6485 | 0.7738 | 1761.43 | 168.63 |
| 28.946 | 74.6 | 953.9 | 0.6116 | 0.7712 | 1760.05 | 168.58 |
| 29.029 | 75.1 | 1060.3 | 0.5432 | 0.7624 | 1759.28 | 168.52 |
| 29.113 | 76.4 | 1137.6 | 0.5203 | 0.7578 | 1758.62 | 168.48 |
| 29.196 | 78.8 | 1188.8 | 0.5413 | 0.7535 | 1756.15 | 168.48 |
| 29.279 | 79.5 | 1252.6 | 0.5132 | 0.7469 | 1754.91 | 168.45 |





| TOJ (HR) | SPIN (RPS) | DDFBM (CPS) | DDFHM (-) | WFDE (G/C3) | WPRE (PSIA) | WTEP (DEGF) |
|-------------|---------------|----------------|--------------|----------------|----------------|----------------|
|-------------|---------------|----------------|--------------|----------------|----------------|----------------|

| | | | | | | |
|--------|------|------|--------|--------|---------|--------|
| 22.809 | 0.0 | 0.0 | 0.0000 | 0.7748 | 1857.61 | 162.24 |
| 22.835 | 0.0 | 0.0 | 0.0000 | 0.7741 | 1857.37 | 162.70 |
| 22.868 | 85.3 | 2.6 | 0.9493 | 1.1001 | 1806.84 | 164.04 |
| 22.902 | 56.2 | 57.7 | 0.9897 | 0.9994 | 1817.72 | 172.67 |
| 22.935 | 32.8 | 27.7 | 0.9906 | 0.9852 | 1831.30 | 172.69 |
| 22.968 | 15.2 | 5.4 | 0.9934 | 0.9764 | 1842.23 | 172.55 |
| 23.002 | 3.2 | 0.1 | 0.9996 | 0.9762 | 1848.93 | 172.32 |
| 23.035 | 0.0 | 0.1 | 0.9983 | 0.9781 | 1851.48 | 172.00 |
| 23.068 | 0.0 | 0.3 | 0.9989 | 0.9807 | 1852.68 | 171.66 |
| 23.102 | 0.0 | 0.5 | 0.9952 | 0.9798 | 1853.30 | 171.33 |
| 23.135 | 0.0 | 0.4 | 0.9937 | 0.9762 | 1853.61 | 171.07 |
| 23.168 | 0.0 | 3.1 | 0.9668 | 0.9745 | 1853.70 | 170.60 |
| 23.202 | 0.0 | 0.5 | 0.9924 | 0.9783 | 1853.64 | 170.28 |
| 23.235 | 0.0 | 0.4 | 0.9931 | 0.9802 | 1853.61 | 169.98 |
| 23.268 | 0.0 | 0.8 | 0.9938 | 0.9808 | 1853.64 | 169.68 |
| 23.302 | 0.0 | 0.1 | 0.9984 | 0.9805 | 1853.68 | 169.53 |
| 23.335 | 0.0 | 0.3 | 0.9982 | 0.9812 | 1853.69 | 169.33 |
| 23.368 | 0.0 | 0.1 | 0.9995 | 0.9821 | 1853.70 | 169.16 |
| 23.402 | 0.0 | 0.4 | 0.9986 | 0.9822 | 1853.70 | 168.97 |
| 23.435 | 0.0 | 0.0 | 1.0000 | 0.9828 | 1853.68 | 168.82 |
| 23.468 | 0.0 | 0.3 | 0.9972 | 0.9844 | 1853.68 | 168.63 |
| 23.502 | 0.0 | 0.4 | 0.9985 | 0.9846 | 1853.72 | 168.55 |
| 23.535 | 0.0 | 0.1 | 0.9979 | 0.9843 | 1853.73 | 168.46 |
| 23.568 | 0.0 | 0.1 | 0.9986 | 0.9841 | 1853.75 | 168.36 |
| 23.602 | 0.0 | 0.1 | 0.9978 | 0.9850 | 1853.75 | 168.23 |
| 23.635 | 0.0 | 0.0 | 1.0000 | 0.9845 | 1853.77 | 167.99 |
| 23.668 | 0.0 | 0.3 | 0.9964 | 0.9848 | 1853.74 | 167.85 |
| 23.702 | 0.0 | 0.6 | 0.9937 | 0.9843 | 1853.71 | 167.79 |
| 23.735 | 0.0 | 0.1 | 0.9987 | 0.9847 | 1853.69 | 167.80 |
| 23.768 | 0.0 | 0.5 | 0.9914 | 0.9853 | 1853.68 | 167.71 |

Schlumberger

**Shut-in Pass
Down 900 ft/hr**

MAXIS Field Log

Input DLIS Files

06-Oct-2005 11:43

Output DLIS Files

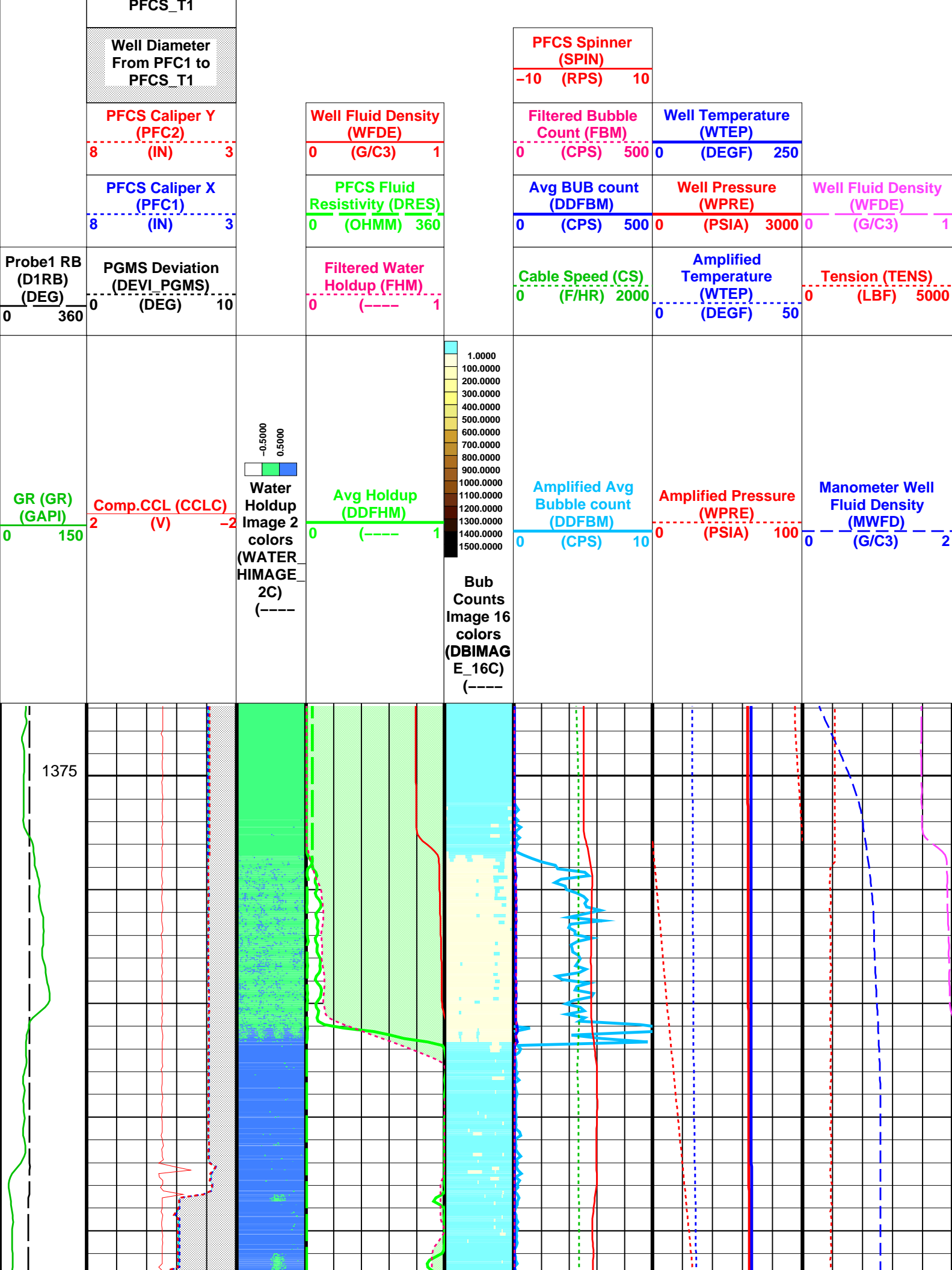
| | | | | | | |
|---------|-------------------------|------|----------|-------------------|----------|----------|
| DEFAULT | FCS_ILS_DEFT_GMS_066PUP | FN:9 | PRODUCER | 06-Oct-2005 16:37 | 1475.7 M | 1371.8 M |
|---------|-------------------------|------|----------|-------------------|----------|----------|

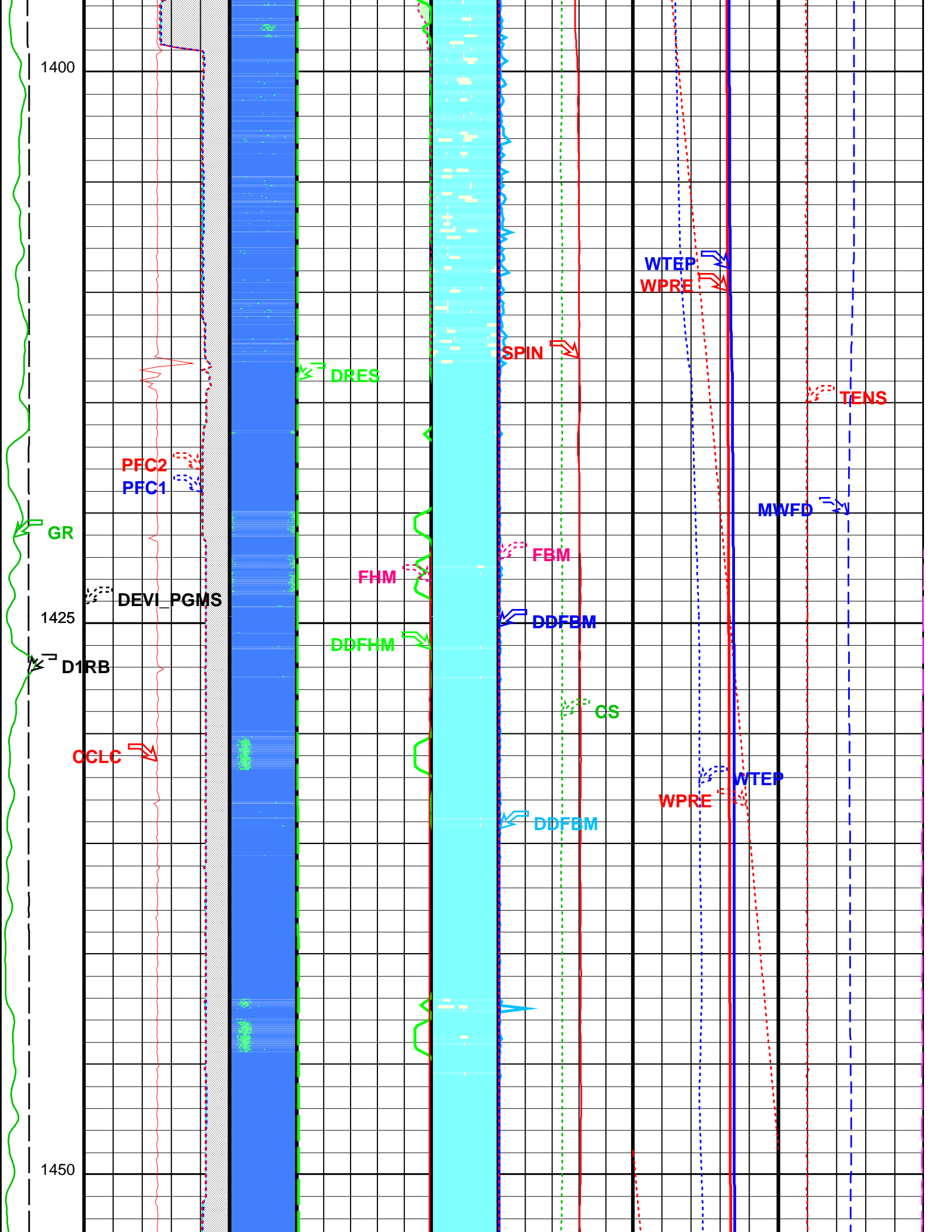
OP System Version: 13C0-300
MCM

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

Pipe Ovalisation
Between PFC1 and
PFC2

Well Diameter
From PFC2 to







OP System Version: 13C0-300
MCM

| | | | |
|----------|----------|----------|----------|
| PFCS-A | 13C0-300 | PILS-A | 13C0-300 |
| DEFT-C2 | 13C0-300 | PGMC-A/B | 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. | 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 | 0 DEG |
| PFGC | PFCS Geometrical coefficient | 1200 |
| PFRE1 | Downhole Resistor Probe 1 | 5000 OHMS |
| PFRE2 | Downhole Resistor Probe 2 | 5000 OHMS |
| PFRE3 | Downhole Resistor Probe 3 | 5000 OHMS |
| PFRE4 | Downhole Resistor Probe 4 | 5000 OHMS |
| SDCF | Spinner Depth Constant Filter | 6 |
| 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 |
| 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 |
| PFGC | PFCS Geometrical coefficient | 1200 |
| PGMC-A/B: 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 LB/G |
| PSPT-A/B: Production Services Logging Platform | | |
| CSID | Casing Size I.D. | 3.958 IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 DEG |
| BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958 IN |
| System and Miscellaneous | | |
| DO | Depth Offset for Playback | 0.0 M |
| PP | Playback Processing | RECOMPUTE |

Input DLIS Files

06-Oct-2005 11:43

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_066PUP FN:9 PRODUCER 06-Oct-2005 16:37

Input DLIS Files

06-Oct-2005 11:43

Output DLIS Files

OP System Version: 13C0-300

MCM

PFCS-A

13C0-300

PILS-A

13C0-300

DEFT-C2

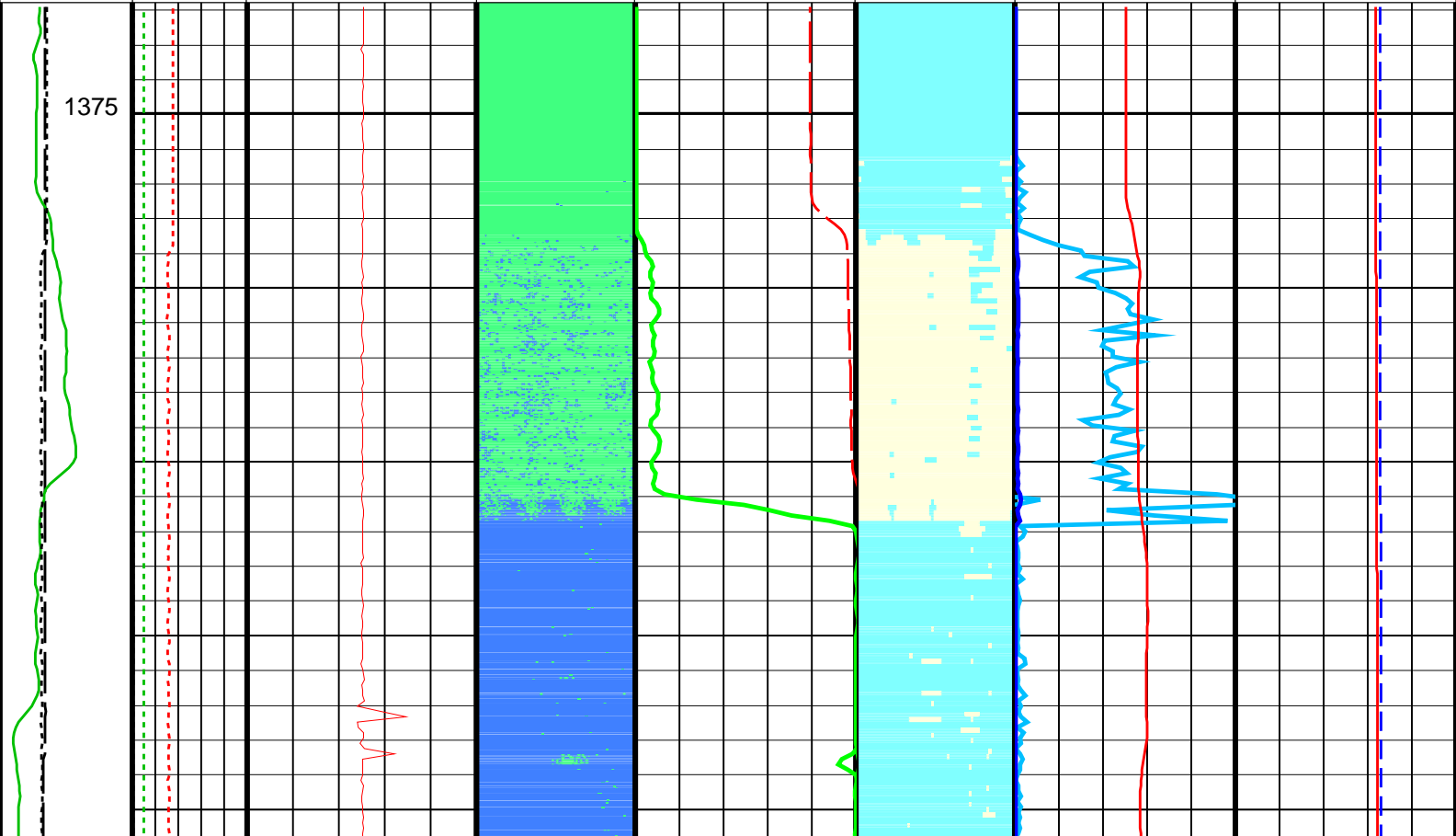
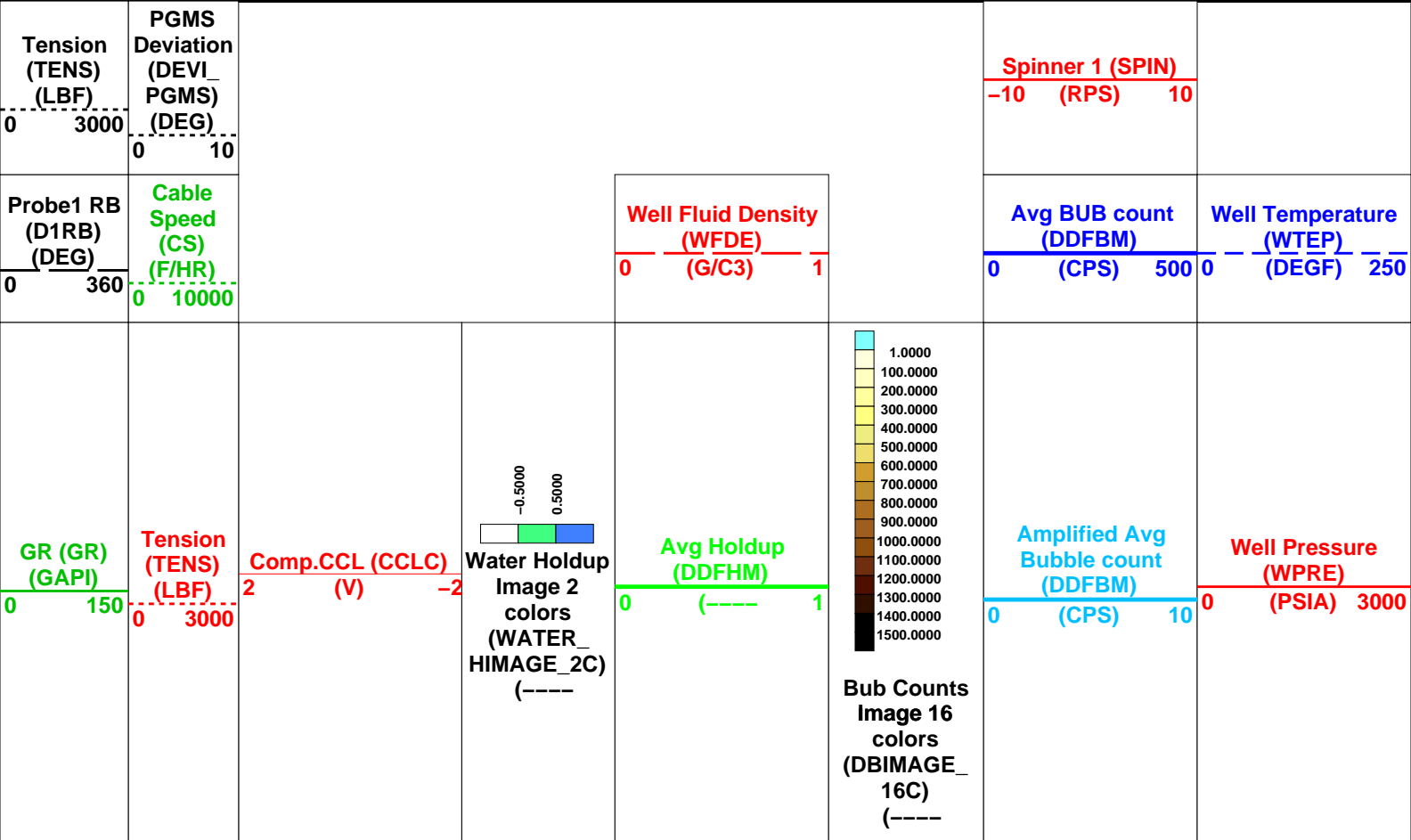
13C0-300

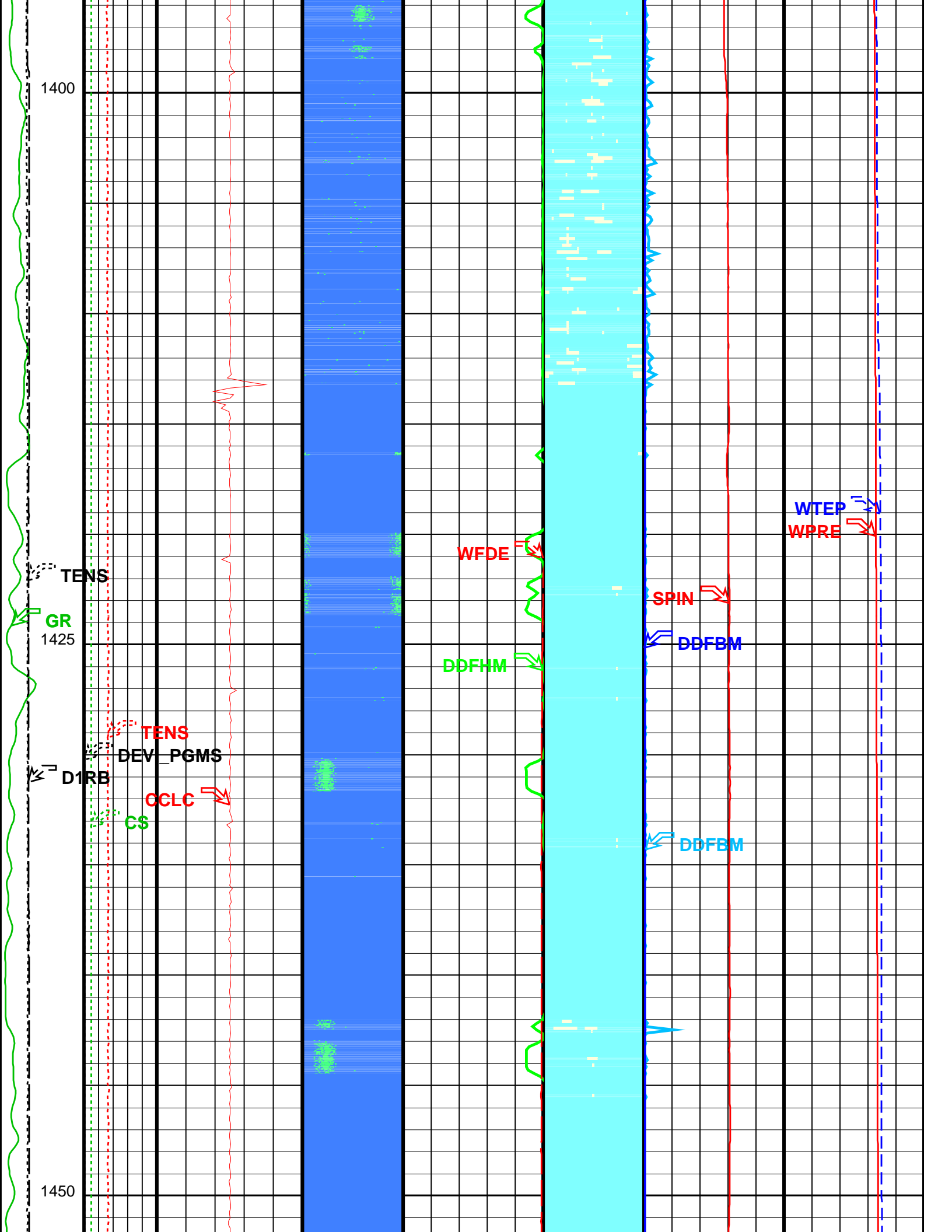
PGMC-A/B

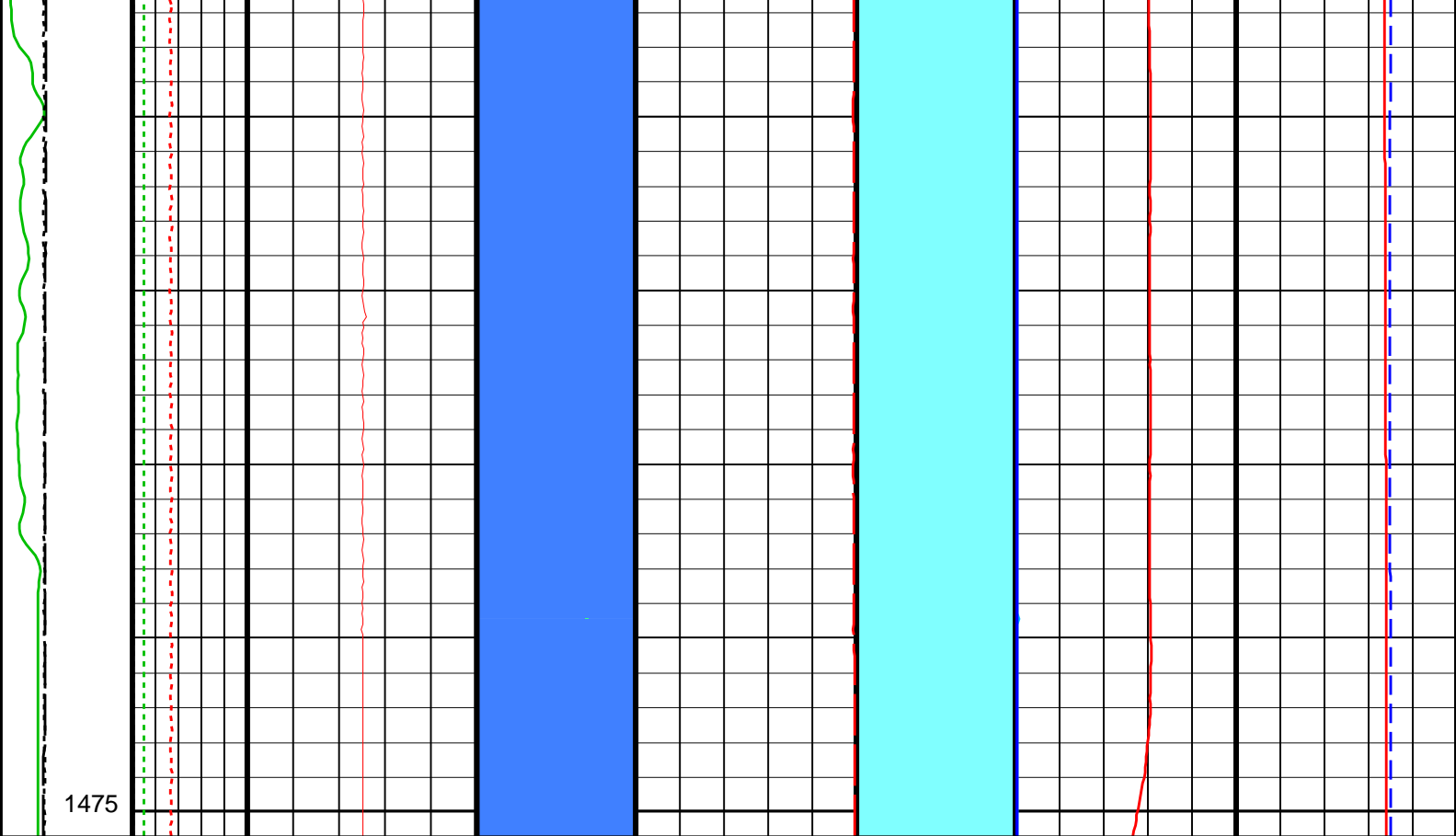
13C0-300

PSPT-A/B

13C0-300







| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|
| <div>GR (GR) (GAPI) 0150</div> | | <div>Tension (TENS) (LBF) 03000</div> | | <div>Comp.CCL (CCLC) (V) 2-2</div> | | <div>Water Holdup Image 2 colors (WATER_ HIMAGE_2C) (---- -0.50000.5000</div> | | <div>Avg Holdup (DDFHM) 01</div> | | <div>Bub Counts Image 16 colors (DBIMAGE_16C) (---- 1.0000100.0000200.0000300.0000400.0000500.0000600.0000700.0000800.0000900.00001000.00001100.00001200.00001300.00001400.00001500.0000</div> | | <div>Amplified Avg Bubble count (DDFBM) (CPS) 010</div> | | <div>Well Pressure (WPRE) (PSIA) 03000</div> | |
| <div>Probe1 RB (D1RB) (DEG) 0360</div> | | <div>Cable Speed (CS) (F/HR) 010000</div> | | | | | | <div>Well Fluid Density (WFDE) (G/C3) 01</div> | | | | <div>Avg BUB count (DDFBM) (CPS) 0500</div> | | <div>Well Temperature (WTEP) (DEGF) 0250</div> | |
| <div>Tension (TENS) (LBF) 03000</div> | | <div>PGMS Deviation (DEVI_ PGMS) (DEG) 010</div> | | | | | | | | | | <div>Spinner 1 (SPIN) (RPS) -1010</div> | | | |

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 | 0 DEG |
| SDCF | Spinner Depth Constant Filter | 6 |
| 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 |
| 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/B: 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 LB/G |
| PSPT-A/B: Production Services Logging Platform | | |
| CSID | Casing Size I.D. | 3.958 IN |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 DEG |
| BORDYN: BorDyn (Well Test Validation) | | |
| CSID | Casing Size I.D. | 3.958 IN |
| System and Miscellaneous | | |
| DO | Depth Offset for Playback | 0.0 M |
| PP | Playback Processing | RECOMPUTE |

Input DLIS Files

06-Oct-2005 11:43

Output DLIS Files

DEFAULT FCS_ILS_DEFT_GMS_066PUP FN:9 PRODUCER 06-Oct-2005 16:37



Calibrations

MAXIS Field Log

Client: Esso Australia Ltd.
 Field: Seahorse
 Well: Seahorse # 1
 Run date:

Tool: PSP
 Sub Type: PBMS
 Sensor: CQG

Sonde Serial NB

COEFFICIENTS FOR CQG PBMS–B.827 S/N:

Sensor Serial NB 827

Calib Date ddmmyy 081102

Matrix Size 66

Coeff CRC C46C

Pres Coeff

| | 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 |

PBMS Quartz Gauge type F

Sonde Serial NB :

Sensor Serial NB 827

Calib Date ddmmyy 081102

Matrix Size 66

Coeff CRC D778

Temp Coeff

| | Fc**0 | Fc**1 | Fc**2 |
|-------|--------------------|--------------------|--------------------|
| Fb**0 | +.117320330296E+03 | –.327291380978E–03 | +.800273425884E–08 |
| Fb**1 | –.596633620850E–02 | +.180306224649E–07 | +.174544544846E–12 |
| Fb**2 | –.317763414682E–07 | +.316358144271E–12 | +.665615503387E–18 |
| Fb**3 | –.325475568911E–12 | +.117312053016E–16 | 0.0 |
| Fb**4 | 0.0 | 0.0 | 0.0 |
| Fb**5 | 0.0 | 0.0 | 0.0 |
| | Fc**3 | Fc**4 | Fc**5 |
| Fb**0 | +.145389553894E–12 | –.240593703427E–16 | –.210532380041E–20 |
| Fb**1 | –.670929322772E–17 | –.768634336894E–21 | 0.0 |
| Fb**2 | 0.0 | 0.0 | 0.0 |

Sensor Serial NB 027
Calib Date ddmmyy 081102
Matrix Size 16
Coeff CRC 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 |

| | | | |
|-----------|---------------------|-----------|------|
| Client: | Esso Australia Ltd. | Tool: | PSP |
| Field: | Seahorse | Sub Type: | PBMS |
| Well: | Seahorse # 1 | 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 | +.147000000000e+04 | +.332000000000e+04 |

Client: Esso Australia Ltd.

Field: Seahorse

Well: Seahorse # 1

Run date:

Tool: PSP

Sub Type: PGMC

Sensor: ACCE

PGMS Accelerometer VTCO

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

ACCVTCO COEFFICIENTS

PGMC-B:1751 . SENSOR S/N:

1751

071204

23

BF1F

Acce Coeff

| | Temp**0 | Temp**1 | Temp**2 |
|-------|--------------------|--------------------|--------------------|
| Ta**0 | +.396027600000E+01 | -.275495700000E-04 | +.128991500000E-06 |
| Ta**1 | -.497885900000E+00 | +.153467100000E-05 | +.855847900000E-09 |

PGMS Accelerometer VTCO

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

:

1751

071204

23

5EDD

Temp Coeff

| | Temp**0 | Temp**1 | Temp**2 |
|-------|--------------------|--------------------|--------------------|
| Tt**0 | +.921936100000E+00 | +.940336700000E-05 | +.831432600000E-07 |
| Tt**1 | +.476498700000E-02 | -.377875800000E-07 | +.131429400000E-09 |

Client: Esso Australia Ltd.

Field: Seahorse

Well: Seahorse # 1

Run date:

Tool: PSP

Sub Type: PGMC

Sensor: ACCE

PGMS Accelerometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

ACCELEROMETER COEFFICIENTS FOR PGMC-B ACC SN418190 S/N:

1751

050704

23

B2DA

| | | | |
|------------|--------------------|--------------------|--------------------|
| Acce Coeff | Temp**0 | Temp**1 | Temp**2 |
| Va**0 | -.296057900000E+01 | +.327719500000E-01 | +.109352500000E-02 |
| Va**1 | +.196725000000E+01 | +.793953000000E-04 | -.770299000000E-06 |

| | |
|--------------------|--------------------------------------|
| PGMS Accelerometer | |
| Sonde Serial NB | : |
| Sensor Serial NB | 1751 |
| Calib Date ddmmyy | 050704 |
| Matrix Size | 12 |
| Coeff CRC | 880F |
| Acce Factor | |
| | F0F1 |
| F0 | +.150000000000E+02+.500000000000E+02 |

| | | | |
|-----------|---------------------|-----------|------|
| Client: | Esso Australia Ltd. | Tool: | PSP |
| Field: | Seahorse | Sub Type: | PGMC |
| Well: | Seahorse # 1 | Sensor: | PSOI |
| Run date: | | | |

| | |
|------------------------|--|
| PGMS PSOI Gradio Gauge | |
| Sonde Serial NB | COEFFICIENTS FOR PSP PSOI GAUGE. SENSOR S/N: |
| Sensor Serial NB | 1939 |
| Calib Date ddmmyy | 041198 |
| Matrix Size | 45 |
| Coeff CRC | 2544 |
| Pres Coeff | |
| | Rt**0Rt**1Rt**2 |
| Vp**0 | +.136194536778E+03-.725709581848E+00+.128352400476E-02 |
| Vp**1 | -.143803441848E+05+.800723930415E+02-.146289515263E+00 |
| Vp**2 | -.216423209994E+06+.572677789320E+03-.316797504766E+00 |
| Vp**3 | +.839956334665E+07-.155134281037E+050.0 |
| Vp**4 | -.191460422552E+09+.343237664144E+060.0 |
| | Rt**3 |
| Vp**0 | -.749372490501E-06 |
| Vp**1 | +.870313292841E-04 |
| Vp**2 | 0.0 |

| | |
|-------|-----|
| Vp**3 | 0.0 |
| Vp**4 | 0.0 |

PGMS PSOI Gradio Gauge

Sonde Serial NB :
Sensor Serial NB 1939
Calib Date ddmmyy 041198
Matrix Size 14
Coeff CRC 1B99

Temp Coeff

| | |
|-------|--------------------|
| | Vp**0 |
| Rt**0 | −.998408405166E+05 |
| Rt**1 | +.494477587932E+03 |
| Rt**2 | −.819622380332E+00 |
| Rt**3 | +.455290577773E−03 |

Client: Esso Australia Ltd.

Field: Seahorse

Well: Seahorse # 1

Run date:

Tool: PSP

Sub Type: PGMC

Sensor: PSOI

PGMS PSOI Gauge VTCO

Sonde Serial NB COEFFICIENTS FOR PGMC VTCO. SENSOR S/N:
Sensor Serial NB 1751
Calib Date ddmmyy 031204
Matrix Size 23
Coeff CRC 1B0A

Pres Coeff

| | | |
|-------|--------------------|---------|
| | Temp**0 | Temp**1 |
| Tp**0 | −.297367414542E−05 | 0.0 |
| Tp**1 | +.218849755231E−01 | 0.0 |
| Tp**2 | 0.0 | 0.0 |

PGMS PSOI Gauge VTCO

Sonde Serial NB :

Sensor Serial NB1751

Calib Date ddmmyy031204

Matrix Size23

Coeff CRC49E2

Temp Coeff



| | Temp**0 | Temp**1 |
|-------|--------------------|---------|
| Tt**0 | -.166586489941E+02 | 0.0 |
| Tt**1 | +.209112336290E+03 | 0.0 |
| Tt**2 | 0.0 | 0.0 |

| Calibration and Check Summary | | | | | | | |
|--|---------|--------|--------|-------|--------|-------|-------|
| Measurement | Nominal | Master | Before | After | Change | Limit | Units |
| PSP Flow and caliper Tool Wellsite Calibration – PFCS Caliper Calibration | | | | | | | |
| Before: 2–Oct–2005 19:45 | | | | | | | |
| PFCS CaliperX Small Ring | 3.000 | N/A | 2.883 | N/A | N/A | N/A | IN |
| PFCS CaliperX Large Ring | 5.500 | N/A | 5.406 | N/A | N/A | N/A | IN |
| PFCS CaliperY Small Ring | 3.000 | N/A | 3.036 | N/A | N/A | N/A | IN |
| PFCS CaliperY Large Ring | 5.500 | N/A | 5.535 | N/A | N/A | N/A | IN |
| DEFT_C Tool Wellsite Calibration – DEFT_C2 Caliper Calibration | | | | | | | |
| Before: 2–Oct–2005 19:47 | | | | | | | |
| DEFT–C2 Caliper Small Ring | 3.000 | N/A | 2.960 | N/A | N/A | N/A | IN |
| DEFT–C2 Caliper Large Ring | 5.500 | N/A | 5.435 | N/A | N/A | N/A | IN |
| Production Services Logging Platform Wellsite Calibration – Detector Calibration | | | | | | | |
| Before: 2–Oct–2005 19:50 | | | | | | | |
| Gamma–Ray Jig–Bkg | 125.0 | N/A | 120.5 | N/A | N/A | N/A | GAPI |

| PSP Flow and caliper Tool / Equipment Identification | | | |
|--|----------|-----|-----|
| Primary Equipment: | | | |
| PFCS Cartridge | PFCC – A | 799 | 799 |
| PFCS Caliper | Cali – | 799 | 799 |
| PFCS Relative Bearing | Rela – | 799 | 799 |
| PFCS 2.5 Spinner Diameter | Spin – | 799 | 799 |
| PFCS Fluid Holdup Electric Probes | Hold – | 799 | 799 |
| Auxiliary Equipment: | | | |
| PFCS Cartridge Housing | PFCH – A | 799 | 799 |

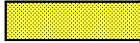

| PSP Flow and caliper Tool Wellsite Calibration | | | | | | | |
|--|-----------------------------|--------------------|------------------|--------|-----------------------------|--------------------|------------------|
| PFCS Caliper Calibration | | | | | | | |
| Phase | PFCS CaliperX Small Ring IN | | Value | Phase | PFCS CaliperX Large Ring IN | | Value |
| Before | <div><div></div></div> | | 2.883 | Before | <div><div></div></div> | | 5.406 |
| | N/A (Minimum) | 3.000 (Nominal) | N/A (Maximum) | | N/A (Minimum) | 5.500 (Nominal) | N/A (Maximum) |
| Phase | PFCS CaliperY Small Ring IN | | Value | Phase | PFCS CaliperY Large Ring IN | | Value |
| Before | <div><div></div></div> | | 3.036 | Before | <div><div></div></div> | | 5.535 |
| | N/A (Minimum) | 3.000 (Nominal) | N/A (Maximum) | | N/A (Minimum) | 5.500 (Nominal) | N/A (Maximum) |
| Before: 2–Oct–2005 19:45 | | | | | | | |

| | | | |
|--------------------------|----------|-----|-----|
| Primary Equipment: | | | |
| DEFTC Cartridge | DFCC – C | 716 | 716 |
| DEFT_C Caliper | Cali – | 718 | 718 |
| DEFT_C2 Relative Bearing | Rela – | 718 | 718 |
| DEFT_C Flowmeter probes | Flow – | 718 | 718 |
| Auxiliary Equipment: | | | |
| DEFTC Cartridge Housing | DFCH – C | 716 | 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 |  | 2.960 | Before |  | 5.435 |
| | N/A (Minimum) | 3.000 (Nominal) | N/A (Maximum) | N/A (Minimum) | 5.500 (Nominal) |
| | | | | N/A (Maximum) | |
| Before: 2-Oct-2005 19:47 | | | | | |

Production Services Logging Platform / Equipment Identification

| | | | |
|--|----------|-------|-------|
| Primary Equipment: | | | |
| Production Logging Platform (CQG-F) | PSPT – B | 827 | 827 |
| PSP Basic Measurement Sonde (CQG_F) | PBMS – B | 827 | 827 |
| PSP Basic measurement module | PBMS – | 827 | 827 |
| PSP CCL | CCL – | 827 | 827 |
| PSP GR | GR – | 33143 | 33143 |
| PSP RTD Well Temperature | RTD_ – | 827 | 827 |
| PSP Crystal Quartz Gauge Type F | CQG_ – | 827 | 827 |
| PSP Telemetry and bus master cartridge | PSTC – | 806 | 806 |
| Auxiliary Equipment: | | | |

| Production Services Logging Platform Wellsite Calibration | | | | | |
|---|--|--------------------|--------|---|--------------------|
| Detector Calibration | | | | | |
| Phase | Gamma-Ray Background GAPI | Value | Phase | Gamma-Ray Jig-Bkg GAPI | Value |
| Before |  | 4.068 | Before |  | 120.5 |
| | 0 (Minimum) | 30.00 (Nominal) | | 110.0 (Minimum) | 125.0 (Nominal) |
| | | 120.0 (Maximum) | | | 140.0 (Maximum) |
| Before: 2-Oct-2005 19:50 | | | | | |

Company: **Esso Australia Ltd.**

Schlumberger

Well: **Seahorse # 1**

Field: **Seahorse**

Rig : **Ensco 102**

Country: **Australia**

PSP-GR-CCL

Production Services Platform

Scale 1:200