

Company: Esso Australia Pty Ltd.

Well: A-16a

Field: Hailbut

Rig: Crane

Country: Australia

PSP  
Production Log  
24-Jan-08

Crane  
Halibut  
Gippsland  
A-16a  
Esso Australia Pty Ltd.

| LOCATION                          |                         |        |                     |
|-----------------------------------|-------------------------|--------|---------------------|
| Gippsland<br>Basin<br>Bass Strait | Permanent Datum:        | M.S.L. | Elev.: K.B. 29.45 m |
|                                   | Log Measured From:      | K.B.   | G.L. -73 m          |
|                                   | Drilling Measured From: | K.B.   | D.F. 29.45 m        |

|                 |                               |                               |                             |
|-----------------|-------------------------------|-------------------------------|-----------------------------|
| State: Victoria | Max. Well Deviation<br>20 deg | Longitude<br>148° 19' 07.62"E | Latitude<br>38° 24' 20.36"S |
|-----------------|-------------------------------|-------------------------------|-----------------------------|

|                               |  |          |                               |  |      |  |
|-------------------------------|--|----------|-------------------------------|--|------|--|
| Logging Date                  |  |          | 24-Jan-2008                   |  |      |  |
| Run Number                    |  |          | 1                             |  |      |  |
| Depth Driller                 |  |          | 2563 m                        |  |      |  |
| Schlumberger Depth            |  |          | 2520 m                        |  |      |  |
| Bottom Log Interval           |  |          | 2510 m                        |  |      |  |
| Top Log Interval              |  |          | 2380 m                        |  |      |  |
| Casing Fluid Type             |  |          | Production Fluids             |  |      |  |
| Salinity                      |  |          |                               |  |      |  |
| Density                       |  |          | 1 g/cm3                       |  |      |  |
| Fluid Level                   |  |          |                               |  |      |  |
| BIT/CASING/TUBING STRING      |  |          |                               |  |      |  |
| Bit Size                      |  |          | 8.500 in                      |  |      |  |
| From                          |  |          | 546 m                         |  |      |  |
| To                            |  |          | 2563 m                        |  |      |  |
| Casing/Tubing Size            |  |          | 7.000 in                      |  |      |  |
| Weight                        |  |          | 26 lbm/ft                     |  |      |  |
| Grade                         |  |          | L-80                          |  |      |  |
| From                          |  |          | 11.98 m                       |  |      |  |
| To                            |  |          | 2563 m                        |  |      |  |
| Maximum Recorded Temperatures |  |          | 227 degF                      |  |      |  |
| Logger On Bottom              |  |          | 24-Jan-2008                   |  | 8:00 |  |
| Unit Number                   |  | Location | 889                           |  |      |  |
| Recorded By                   |  |          | S Gilbert / R Sani / C Rowand |  |      |  |
| Witnessed By                  |  |          | B White / JD                  |  |      |  |

| PVT DATA                      |          |  |  | Run 1 | Run 2 | Run 3 |
|-------------------------------|----------|--|--|-------|-------|-------|
| Oil Density                   |          |  |  |       |       |       |
| Water Salinity                |          |  |  |       |       |       |
| Gas Gravity                   |          |  |  |       |       |       |
| Bo                            |          |  |  |       |       |       |
| Bw                            |          |  |  |       |       |       |
| 1/Bg                          |          |  |  |       |       |       |
| Bubble Point Pressure         |          |  |  |       |       |       |
| Bubble Point Temperature      |          |  |  |       |       |       |
| Solution GOR                  |          |  |  |       |       |       |
| Maximum Deviation             | 20 deg   |  |  |       |       |       |
| CEMENTING DATA                |          |  |  |       |       |       |
| Primary/Squeeze               | Primary  |  |  |       |       |       |
| Casing String No              |          |  |  |       |       |       |
| Lead Cement Type              |          |  |  |       |       |       |
| Volume                        |          |  |  |       |       |       |
| Density                       |          |  |  |       |       |       |
| Water Loss                    |          |  |  |       |       |       |
| Additives                     |          |  |  |       |       |       |
| Tail Cement Type              |          |  |  |       |       |       |
| Volume                        |          |  |  |       |       |       |
| Density                       |          |  |  |       |       |       |
| Water Loss                    |          |  |  |       |       |       |
| Additives                     |          |  |  |       |       |       |
| Expected Cement Top           |          |  |  |       |       |       |
| Logging Date                  |          |  |  |       |       |       |
| Run Number                    |          |  |  |       |       |       |
| Depth Driller                 |          |  |  |       |       |       |
| Schlumberger Depth            |          |  |  |       |       |       |
| Bottom Log Interval           |          |  |  |       |       |       |
| Top Log Interval              |          |  |  |       |       |       |
| Casing Fluid Type             |          |  |  |       |       |       |
| Salinity                      |          |  |  |       |       |       |
| Density                       |          |  |  |       |       |       |
| Fluid Level                   |          |  |  |       |       |       |
| BIT/CASING/TUBING STRING      |          |  |  |       |       |       |
| Bit Size                      |          |  |  |       |       |       |
| From                          |          |  |  |       |       |       |
| To                            |          |  |  |       |       |       |
| Casing/Tubing Size            |          |  |  |       |       |       |
| Weight                        |          |  |  |       |       |       |
| Grade                         |          |  |  |       |       |       |
| From                          |          |  |  |       |       |       |
| To                            |          |  |  |       |       |       |
| Maximum Recorded Temperatures |          |  |  |       |       |       |
| Logger On Bottom              |          |  |  |       |       |       |
| Unit Number                   | Location |  |  |       |       |       |
| Recorded By                   |          |  |  |       |       |       |
| Witnessed By                  |          |  |  |       |       |       |

## DEPTH SUMMARY LISTING

Date Created: 15-JAN-2008 13:25:00

## Depth System Equipment

| Depth Measuring Device    |             | Tension Device            |             | Logging Cable      |           |
|---------------------------|-------------|---------------------------|-------------|--------------------|-----------|
| Type:                     | IDW-EB      | Type:                     | PSDS/OSDS   | Type:              | 2-32ZT    |
| Serial Number:            | 6373        | Serial Number:            | 325357      | Serial Number:     | 24425     |
| Calibration Date:         | 04-Jan-2007 | Calibration Date:         | 15-Jan-2008 | Length:            | 5299.86 M |
| Calibrator Serial Number: | 9           | Calibrator Serial Number: | 1174        | Conveyance Method: | Wireline  |
| Calibration Cable Type:   | 2-32ZT      | Calibration Gain:         | 0.91        | Rig Type:          | Rigless   |
| Wheel Correction 1:       | -2          | Calibration Offset:       | 220.00      |                    |           |
| Wheel Correction 2:       | -4          |                           |             |                    |           |

## Depth Control Parameters

|                     |                                   |
|---------------------|-----------------------------------|
| Log Sequence:       | Subsequent Trip To the Well       |
| Reference Log Name: | ExxonMobil Petrophysical Analysis |

### Depth Control Remarks

1. IDW used as primary depth control.
2. Z-chart used as back up.
- 3.
- 4.
- 5.
- 6.

## DISCLAIMER

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| OTHER SERVICES1           | OTHER SERVICES2 |
|---------------------------|-----------------|
| OS1: 7" Posiset Plug      | OS1:            |
| OS2: 2 1/8" Phased        | OS2:            |
| OS3: Powerjet Perforation | OS3:            |
| OS4:                      | OS4:            |
| OS5:                      | OS5:            |

REMARKS: RUN NUMBER 1

REMARKS: RUN NUMBER 2

Log correlated to ExxonMobil Solar Composite Log supplied with logging program.

Objectives: PLT/Dual DEFT and temperature survey over the interval 2500m to 2380m MDKB with 6 static and 6 flowing passes.

Spinner: 3-1/2"

Gradio: Inverted

During the initial flowing survey (F1) the well was shut in, after only completing 4 passes, too check the

integrity of the Gaslift Valves. When the well was reopened it did not stabilize, as seen during the F2 flowing survey.

Due to time constraints, stable flow was not achieved.

Due to time constraints, stable flow was not achieved.

The flow observed was minimal and did not turn the Spinners while conducting 7" Liner stations.

The low flow rate resulted in flowing passes at 10, 20 and 30 m/min. Not 5 m/min.

Flowing Stations were recorded at 2422, 2418, 2394 , 2385 and 2350m to determine if the tubing Blast

Joints or SSD were leaking.

In the tubing the PFCS full bore spinner closes.

During the Flowing period the Well Test Separator data is affected by A21 leaking into the separator.

Schlumberger crews: J Light, Z Casey, G Martin, C Shiells

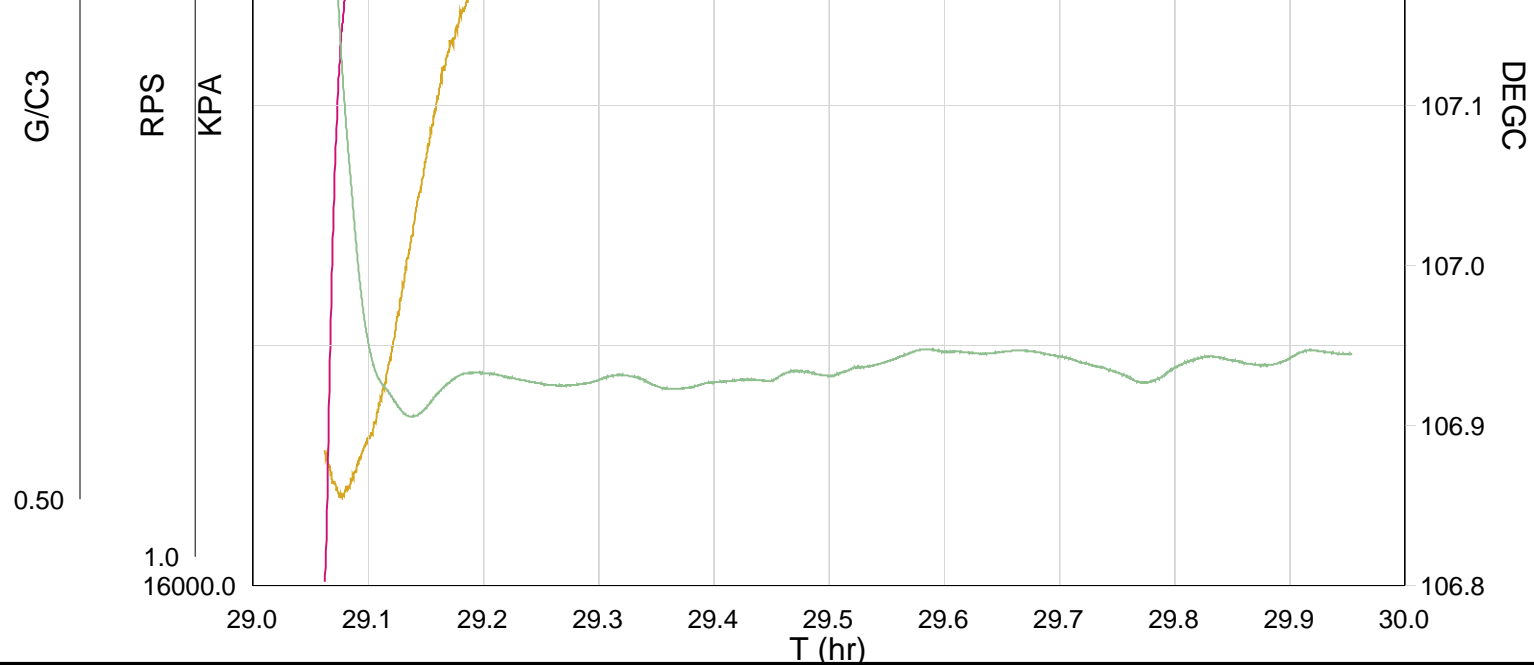
| RUN 1  |       |      | RUN 2  |       |      |
|--|-------|------|--|-------|------|
| SERVICE ORDER #: AUSL07336276<br>PROGRAM VERSION: 15C0-309<br>FLUID LEVEL: |       |      | SERVICE ORDER #:<br>PROGRAM VERSION:<br>FLUID LEVEL: |       |      |
| LOGGED INTERVAL  | START | STOP | LOGGED INTERVAL                                      | START | STOP |
|  |       |      |  |       |      |
|  |       |      |  |       |      |
|  |       |      |  |       |      |
|  |       |      |  |       |      |
|  |       |      |  |       |      |

| EQUIPMENT | DESCRIPTION |
|-----------|-------------|
|           |             |

| RUN 1   |                                | RUN 2                |       |
|---|--------------------------------|----------------------|-------|
| SURFACE EQUIPMENT   |                                |                      |       |
| WITM-A<br>PSC_16MHZ   |                                |                      |       |
| DOWNHOLE EQUIPMENT  |                                |                      |       |
| AH-SWBS 785<br>AH-SWBS 785  |                                |                      | 10.55 |
| AH-SWBS 786<br>AH-SWBS 786  |                                |                      | 9.86  |
| AH-SWBS 787<br>AH-SWBS 787  |                                |                      | 9.17  |
| AH-SWHS-A 759<br>AH-SWHS-A 759  | Detail MT<br>TelStatus<br>CTEM |                      | 8.49  |
| PSPT-B<br>PSC-A<br>PSPT-B 827<br>PSTC 806<br>PBMS-B 827<br>CQG_F_Mano 827<br>RTD_Thermometer 827<br>GR 33143<br>CCL<br>PBMS 827 |                                | 8.16                 | 8.16  |
|   | GR                             | 7.03                 |       |
|   | Well_Temp<br>CQG Manom<br>CCL  | 6.10<br>5.99<br>5.87 |       |
|   | PBMS PSTC                      | 5.64                 |       |
| PGMC-A<br>PGMC-A 826<br>PSOI_Gradio 1926  | Gradioman                      | 5.18                 | 5.64  |
|   | PGMC                           | 4.19                 |       |







Merged Sensors  
Well Flowing (F2)

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-16a

PLQL Passes Summary

- Pass # 1: Src: PLQL\_CS, Log: DOWN , Avg.CS: 10 M/MN
- Pass # 2: Src: PLQL\_CS, Log: UP , Avg.CS: 10 M/MN
- Pass # 3: Src: PLQL\_CS, Log: DOWN , Avg.CS: 19 M/MN
- Pass # 4: Src: PLQL\_CS, Log: UP , Avg.CS: 29 M/MN
- Pass # 5: Src: PLQL\_CS, Log: DOWN , Avg.CS: 20 M/MN
- Pass # 6: Src: PLQL\_CS, Log: UP , Avg.CS: 29 M/MN

Company: Esso Australia Pty Ltd. Well: A-16a

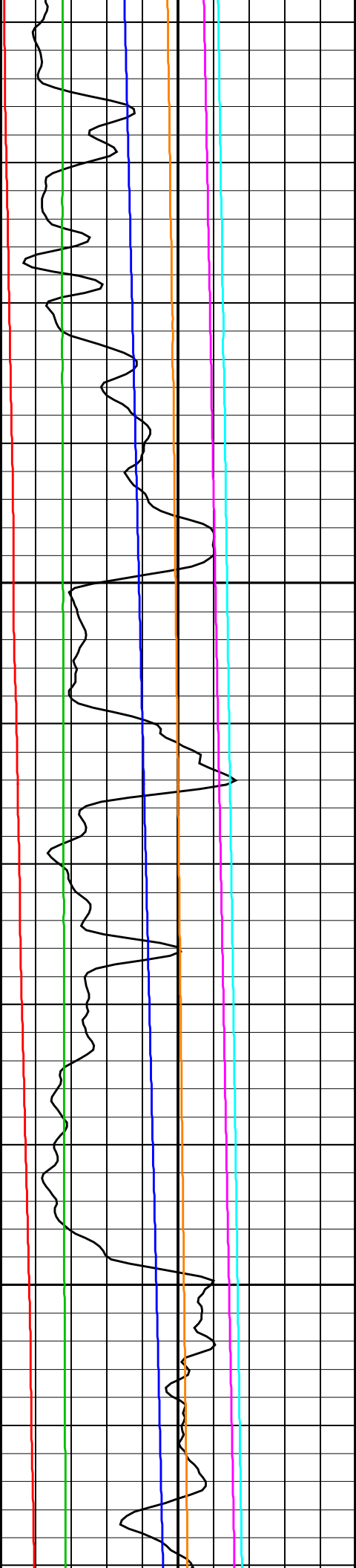
PLQL Data Manager Files

- Pass # 1
- Pass # 2
- Pass # 3
- Pass # 4
- Pass # 5
- Pass # 6

Company: Esso Australia Pty Ltd. Well: A-16a

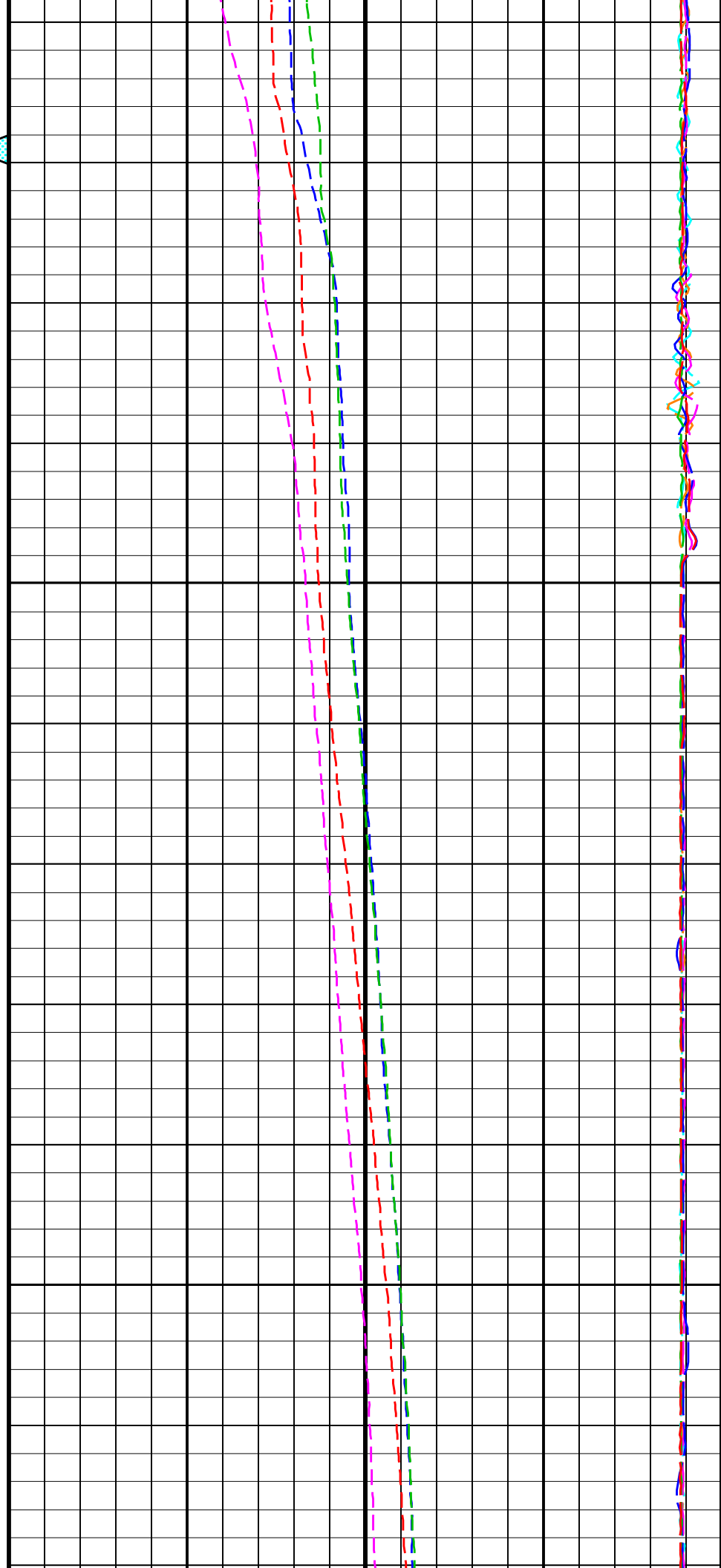
Output DLIS Files

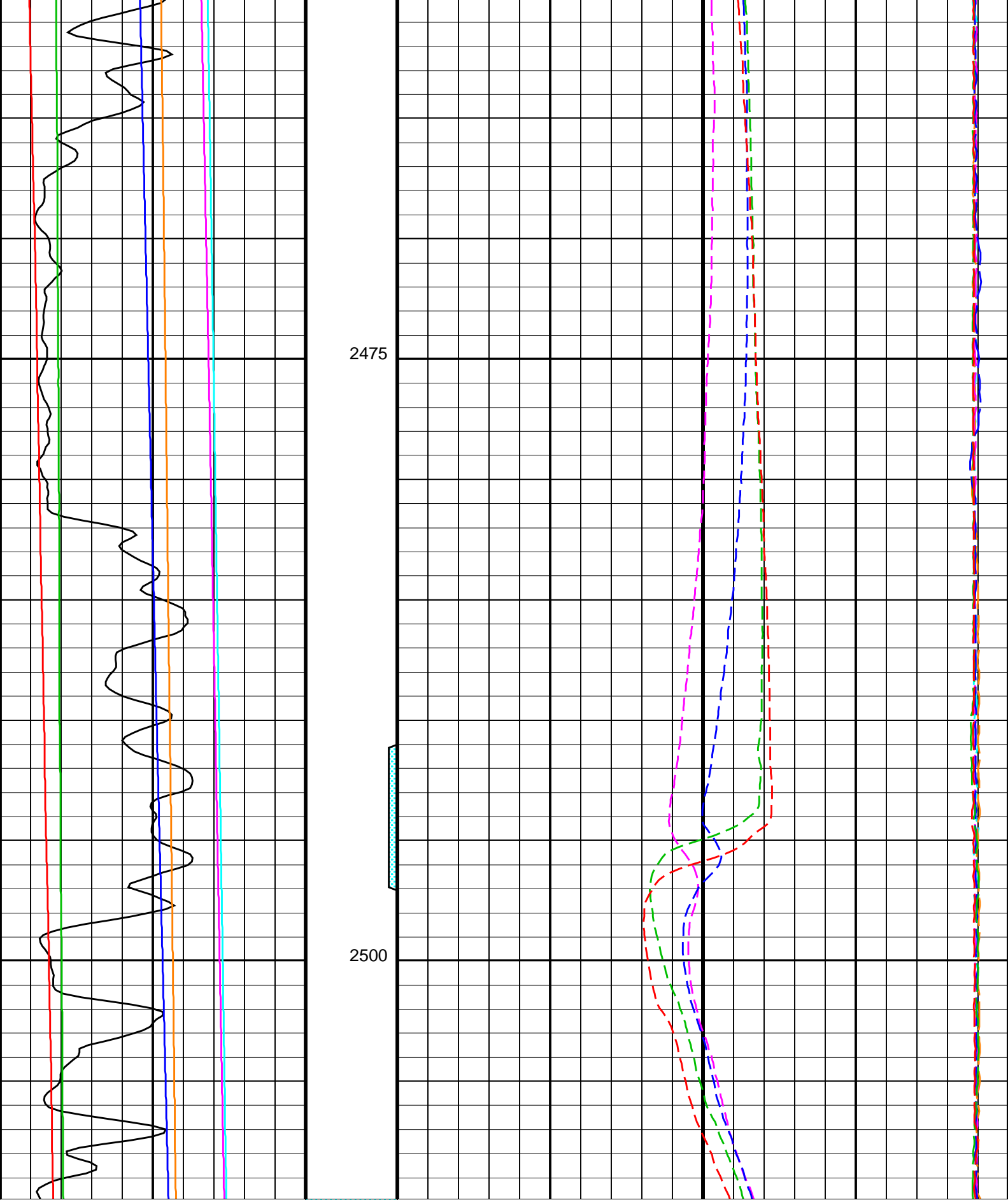




2425

2450





|                                       |          |                                       |   |        |
|---------------------------------------|----------|---------------------------------------|---|--------|
| Gamma-Ray [01] (P01LGR)<br>(GAPI)     | 0150     | Perfo Zone                            | Fluid Temperature [04] (P04TMP)<br>(DEGF) | 225229 |
| Well Pressure [06] (P06LPR)<br>(PSIA) | 25003500 | Perfo Zone<br>(PIFL_DM)<br>20 (---- 0 | Fluid Temperature [03] (P03TMP)<br>(DEGF) | 225229 |
| Well Pressure [05] (P05LPR)           |          |                                       | Fluid Temperature [02] (P02TMP)           |        |

|                             |        |      |
|-----------------------------|--------|------|
| Well Pressure [05] (P05LPR) |        |      |
| 2500                        | (PSIA) | 3500 |
| Well Pressure [04] (P04LPR) |        |      |
| 2500                        | (PSIA) | 3500 |
| Well Pressure [03] (P03LPR) |        |      |
| 2500                        | (PSIA) | 3500 |
| Well Pressure [02] (P02LPR) |        |      |
| 2500                        | (PSIA) | 3500 |
| Well Pressure [01] (P01LPR) |        |      |
| 2500                        | (PSIA) | 3500 |

|                                 |        |     |
|---------------------------------|--------|-----|
| Fluid Temperature [02] (P02TMP) |        |     |
| 225                             | (DEGF) | 229 |
| Fluid Temperature [01] (P01TMP) |        |     |
| 225                             | (DEGF) | 229 |
| Fluid Density [06] (P06FDS)     |        |     |
| 0.1                             | (G/C3) | 1.1 |
| Fluid Density [05] (P05FDS)     |        |     |
| 0.1                             | (G/C3) | 1.1 |
| Fluid Density [04] (P04FDS)     |        |     |
| 0.1                             | (G/C3) | 1.1 |
| Fluid Density [03] (P03FDS)     |        |     |
| 0.1                             | (G/C3) | 1.1 |
| Fluid Density [02] (P02FDS)     |        |     |
| 0.1                             | (G/C3) | 1.1 |
| Fluid Density [01] (P01FDS)     |        |     |
| 0.1                             | (G/C3) | 1.1 |

Format: Sensors      Vertical Scale: 1:200      Graphics File Created: 27-Jan-2008 14:13

## OP System Version: 15C0-309

MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

## Output DLIS Files

DEFAULT      FCS\_ILS\_DEFT\_GMS\_050PUP      FN:20      PRODUCER      27-Jan-2008 14:13

**Schlumberger**

**Merged Spinners  
Well Flowing (F2)**

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-16a

## PLQL Passes Summary

Pass # 1: Src: PLQL\_CS, Log: DOWN , Avg.CS: 10 M/MN  
 Pass # 2: Src: PLQL\_CS, Log: UP , Avg.CS: 10 M/MN  
 Pass # 3: Src: PLQL\_CS, Log: DOWN , Avg.CS: 19 M/MN  
 Pass # 4: Src: PLQL\_CS, Log: UP , Avg.CS: 29 M/MN  
 Pass # 5: Src: PLQL\_CS, Log: DOWN , Avg.CS: 20 M/MN  
 Pass # 6: Src: PLQL\_CS, Log: UP , Avg.CS: 29 M/MN

Company: Esso Australia Pty Ltd.

Well: A-16a

# PLQL Data Manager Files

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

Company: Esso Australia Pty Ltd.

Well: A-16a

## Output DLIS Files

DEFAULT FCS\_ILS\_DEFT\_GMS\_050PUP FN:20 PRODUCER 27-Jan-2008 14:13 2509.9 M 2379.7 M

## OP System Version: 15C0-309

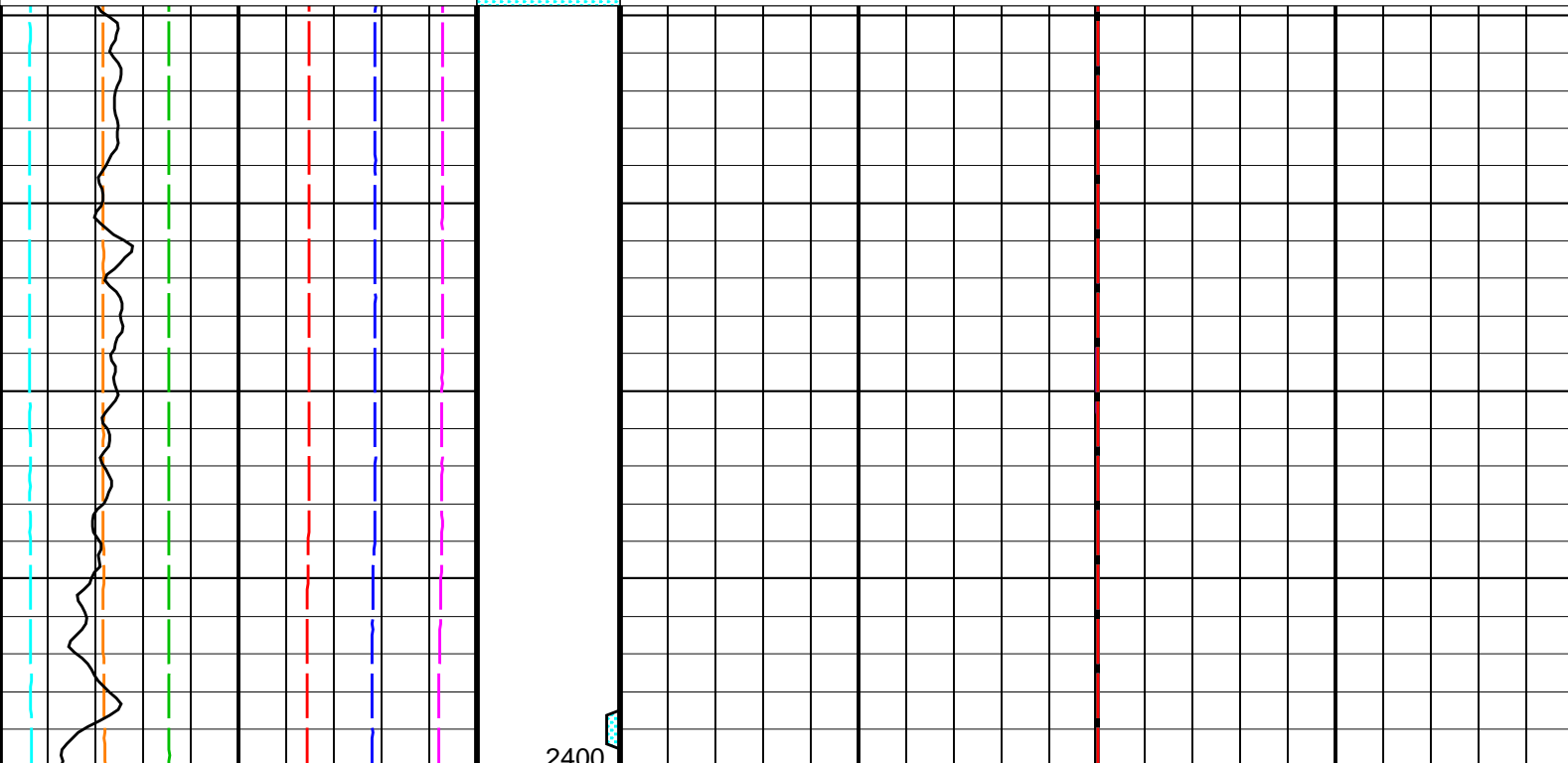
MCM

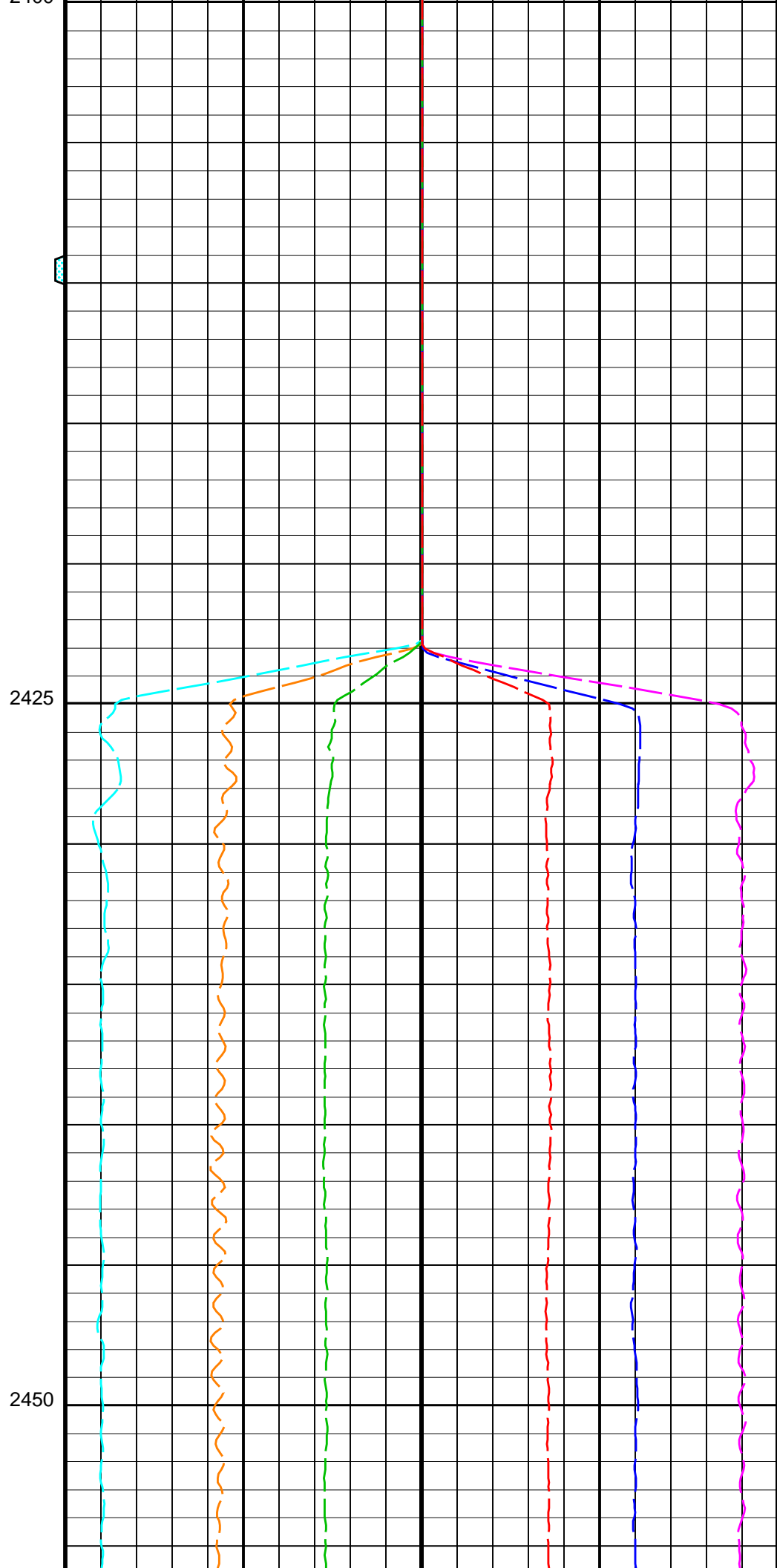
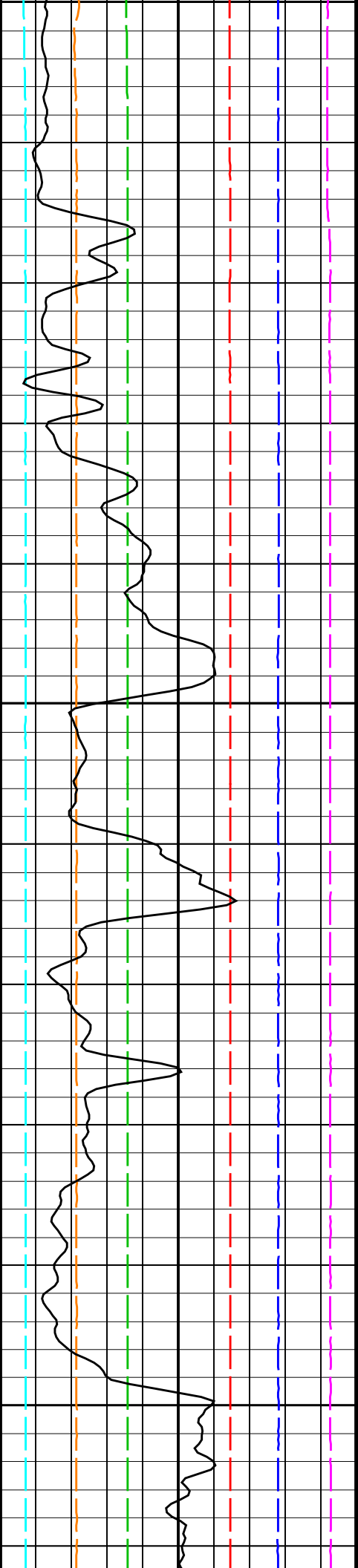
|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

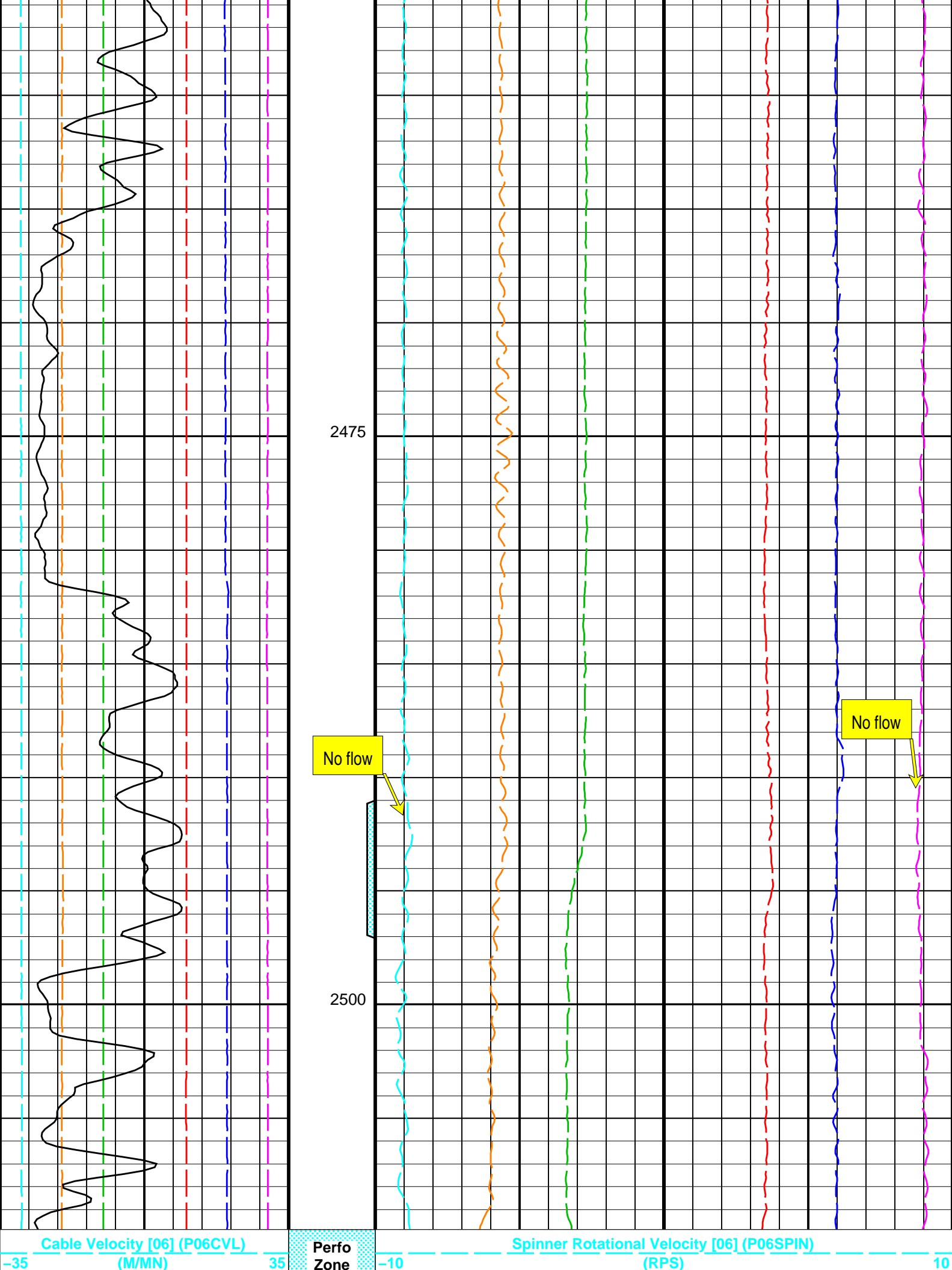
|                              |        |     |  |       |    |
|------------------------------|--------|-----|--|-------|----|
| Gamma-Ray [01] (P01LGR)      |        |     |  |       |    |
| 0                            | (GAPI) | 150 |  |       |    |
| Cable Velocity [01] (P01CVL) |        |     | Spinner Rotational Velocity [01] (P01SPIN) |       |    |
| -35                          | (M/MN) | 35  | -10  | (RPS) | 10 |
| Cable Velocity [02] (P02CVL) |        |     | Spinner Rotational Velocity [02] (P02SPIN) |       |    |
| -35                          | (M/MN) | 35  | -10  | (RPS) | 10 |
| Cable Velocity [03] (P03CVL) |        |     | Spinner Rotational Velocity [03] (P03SPIN) |       |    |
| -35                          | (M/MN) | 35  | -10  | (RPS) | 10 |
| Cable Velocity [04] (P04CVL) |        |     | Spinner Rotational Velocity [04] (P04SPIN) |       |    |
| -35                          | (M/MN) | 35  | -10  | (RPS) | 10 |
| Cable Velocity [05] (P05CVL) |        |     | Spinner Rotational Velocity [05] (P05SPIN) |       |    |
| -35                          | (M/MN) | 35  | -10  | (RPS) | 10 |
| Cable Velocity [06] (P06CVL) |        |     | Spinner Rotational Velocity [06] (P06SPIN) |       |    |
| -35                          | (M/MN) | 35  | -10  | (RPS) | 10 |

Perfo Zone  
(PIFL\_DM)  
20 (---- 0

Perfo  
Zone








|   |  |  |
|---|--|--|
| <div>Cable Velocity [05] (P05CVL)<br/>(M/MN)</div> <div>-3535</div> | <div>Perfo Zone<br/>(PIFL_DM)<br/>20 (---- 0</div> | <div>Spinner Rotational Velocity [05] (P05SPIN)<br/>(RPS)</div> <div>-1010</div> |
| <div>Cable Velocity [04] (P04CVL)<br/>(M/MN)</div> <div>-3535</div> |  | <div>Spinner Rotational Velocity [04] (P04SPIN)<br/>(RPS)</div> <div>-1010</div> |
| <div>Cable Velocity [03] (P03CVL)<br/>(M/MN)</div> <div>-3535</div> |  | <div>Spinner Rotational Velocity [03] (P03SPIN)<br/>(RPS)</div> <div>-1010</div> |
| <div>Cable Velocity [02] (P02CVL)<br/>(M/MN)</div> <div>-3535</div> |  | <div>Spinner Rotational Velocity [02] (P02SPIN)<br/>(RPS)</div> <div>-1010</div> |
| <div>Cable Velocity [01] (P01CVL)<br/>(M/MN)</div> <div>-3535</div> |  | <div>Spinner Rotational Velocity [01] (P01SPIN)<br/>(RPS)</div> <div>-1010</div> |
| <div>Gamma-Ray [01] (P01LGR)<br/>(GAPI)</div> <div>0150</div>       |  |  |

|                                    |                         |  |
|------------------------------------|-------------------------|--|
| Format: Spinners                   | Vertical Scale: 1:200   | Graphics File Created: 27-Jan-2008 14:13 |
| OP System Version: 15C0-309<br>MCM |                         |  |
| PFCS-A                             | 15C0-309                | PILS-A 15C0-309                          |
| DEFT-C2                            | 15C0-309                | PGMC-A 15C0-309                          |
| PSPT-B                             | 15C0-309                |  |
| Output DLIS Files                  |                         |  |
| DEFAULT                            | FCS_ILS_DEFT_GMS_050PUP | FN:20 PRODUCER 27-Jan-2008 14:13         |

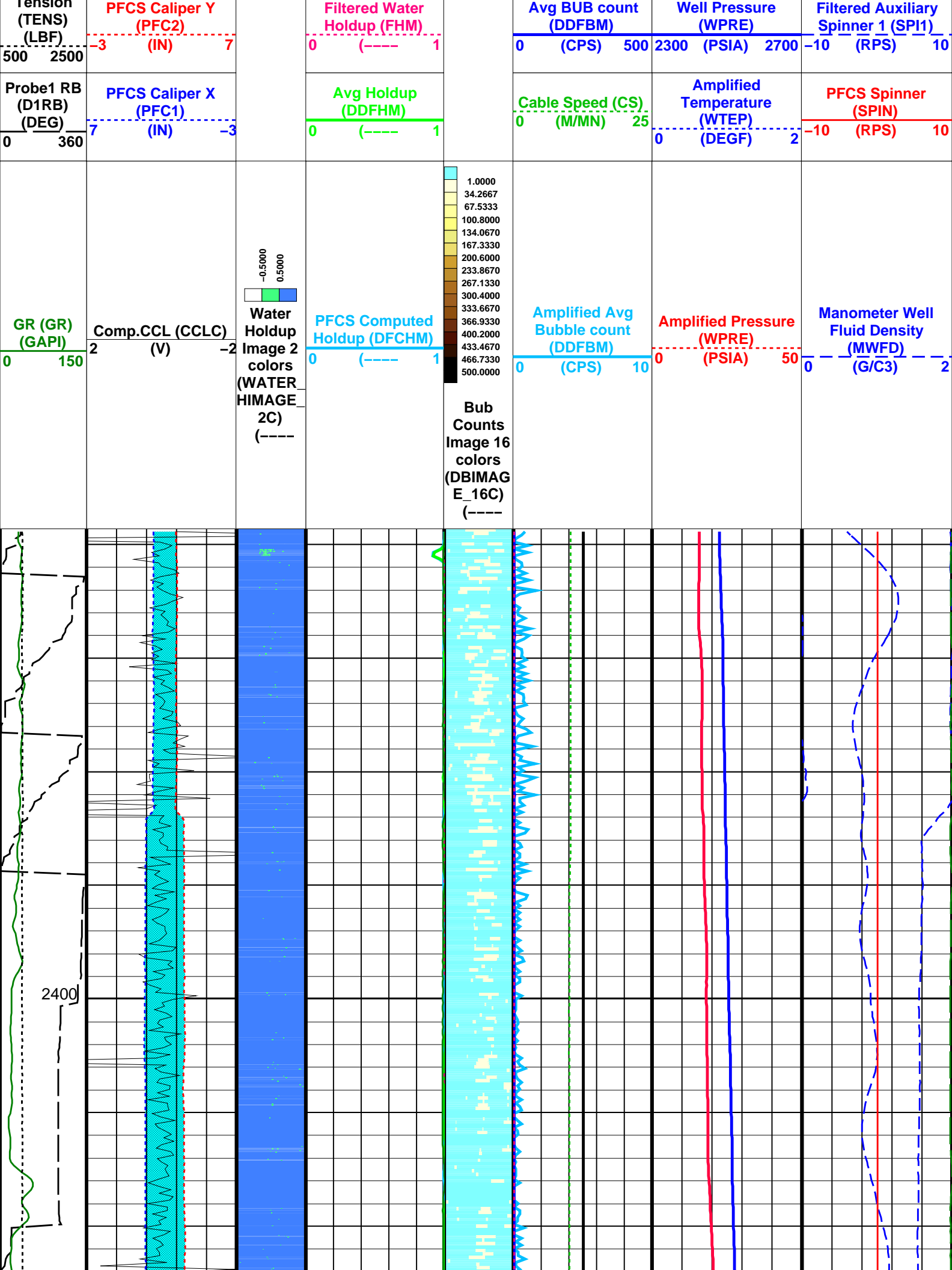


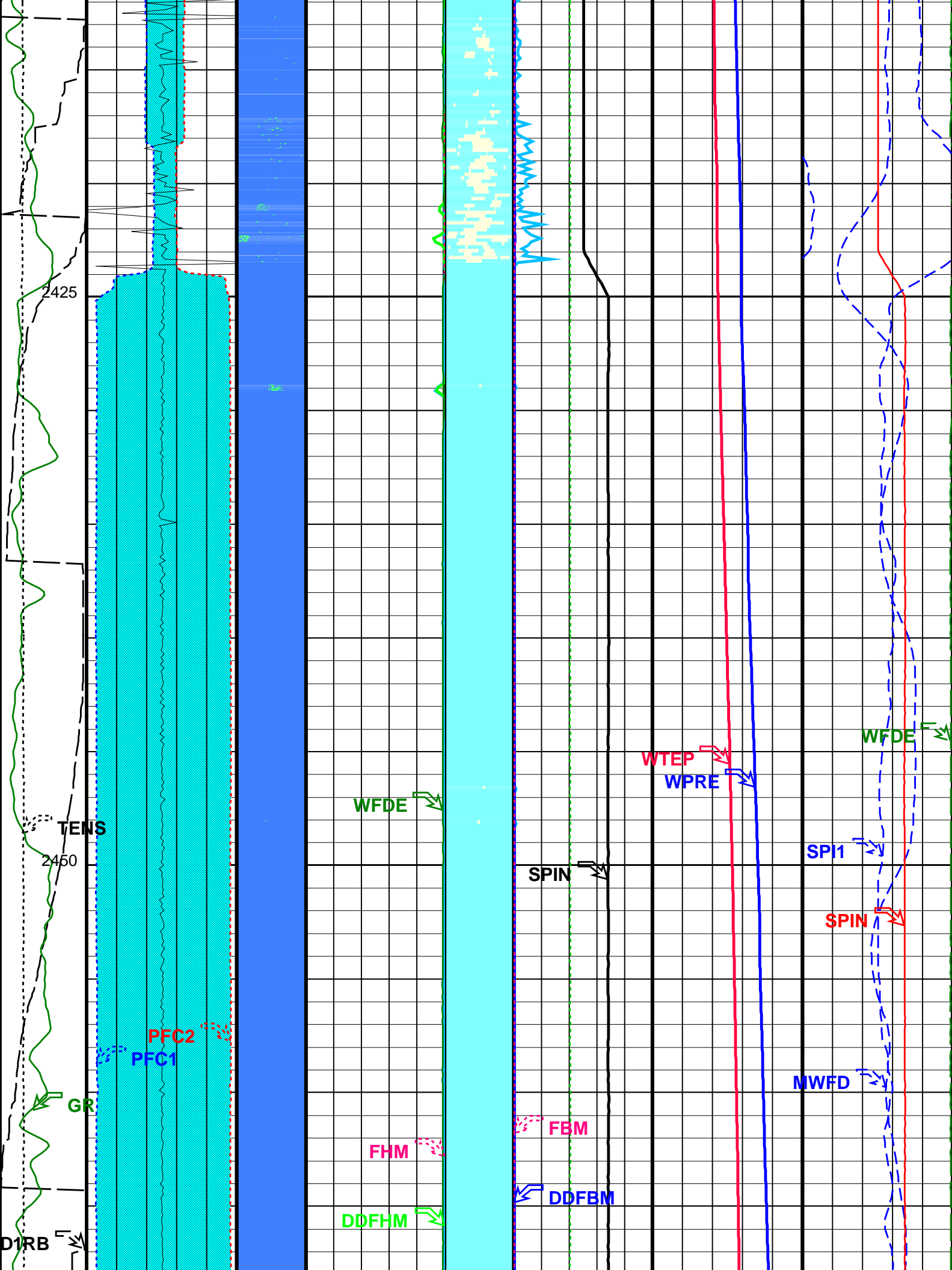
Down Image @ 10 M/Min  
Well Flowing (F2)

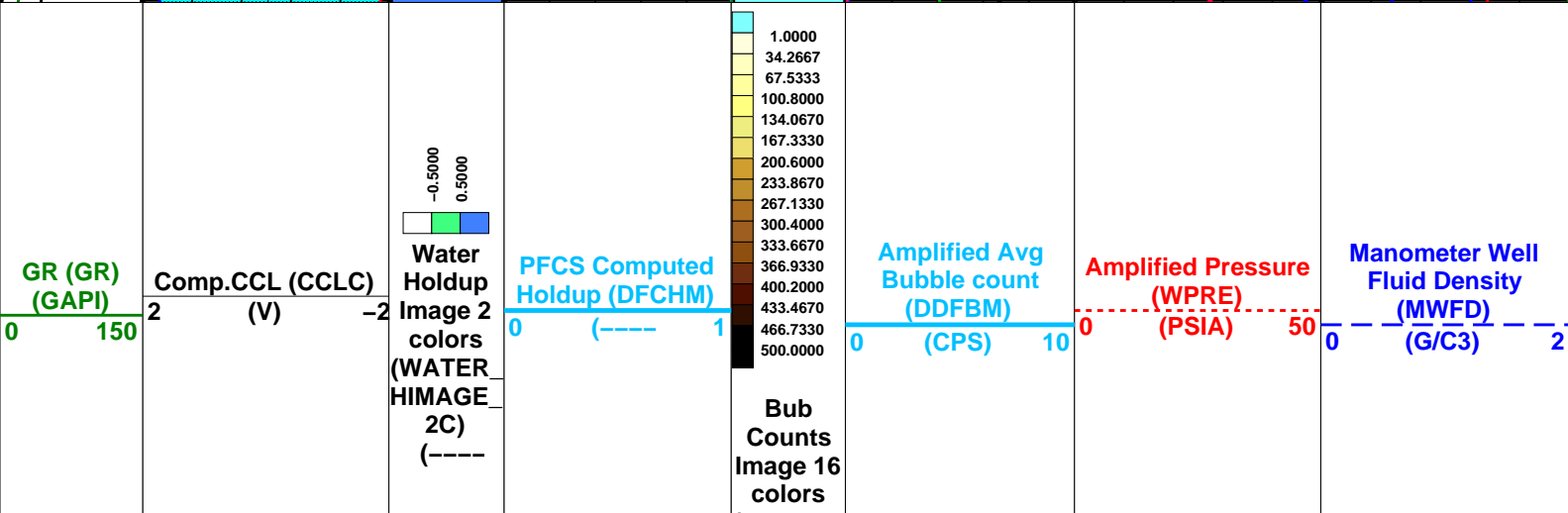
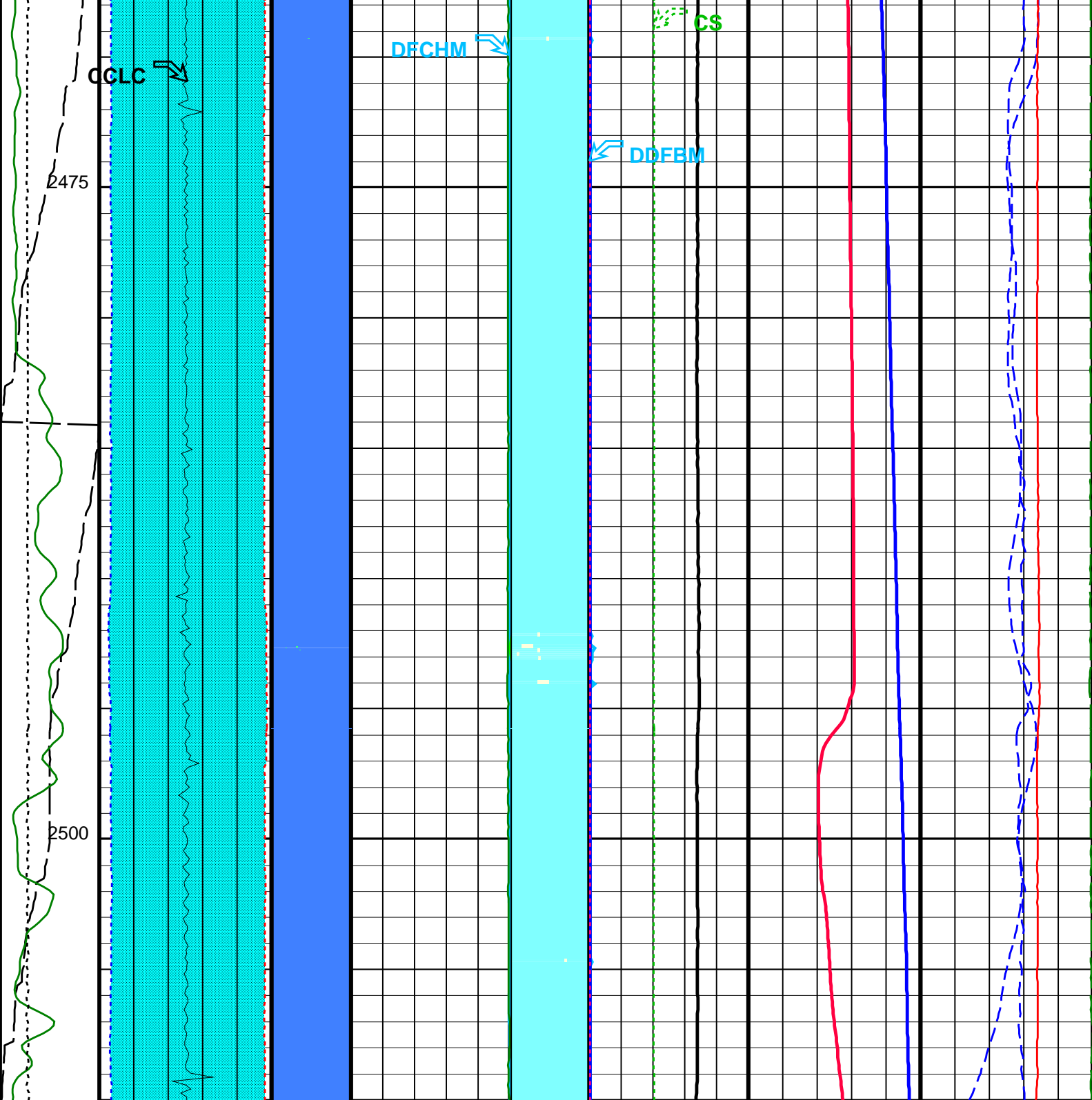
MAXIS Field Log

| Input DLIS Files            |                          |          |                   |                   |          |          |
|-----------------------------|--------------------------|----------|-------------------|-------------------|----------|----------|
| DEFAULT                     | Flip_FCS_ILS_DEFT_041LUP | PRODUCER | 27-Jan-2008 13:45 | 2522.1 M          | 2341.9 M |          |
| Output DLIS Files           |                          |          |                   |                   |          |          |
| DEFAULT                     | FCS_ILS_DEFT_GMS_041PUP  | FN:11    | PRODUCER          | 27-Jan-2008 13:47 | 2510.0 M | 2379.3 M |
| OP System Version: 15C0-309 |                          |          |                   |                   |          |          |
| MCM                         |                          |          |                   |                   |          |          |
| PFCS-A                      | 15C0-309                 |          | PILS-A            | 15C0-309          |          |          |
| DEFT-C2                     | 15C0-309                 |          | PGMC-A            | 15C0-309          |          |          |
| PSPT-B                      | 15C0-309                 |          |                   |                   |          |          |

|   |   |  |   |   |
|---|---|--|---|---|
| <div>Pipe Ovalisation<br/>Between PFC1 and<br/>PFC2</div> | <div>Well Fluid Density<br/>(WFDE)<br/>(G/C3)</div> <div>01</div> | <div>Filtered Main<br/>Spinner (SPIN)<br/>-10 (RPS) 10</div> |   |   |
|   |   | <div>Filtered Bubble<br/>Count (FBM)<br/>0 (CPS) 500</div>   | <div>Well Temperature<br/>(WTEP)<br/>(DEGF)</div> <div>225229</div> | <div>Well Fluid Density<br/>(WFDE)<br/>(G/C3)</div> <div>01</div> |
| Tension   |   |  |   |   |








|  |  |  |  |                            |   |  |  |
|--|--|--|--|----------------------------|---|--|--|
|  |  |  |  | (DBIMAG<br>E_16C)<br>(---- |   |  |  |
| Probe1 RB<br>(D1RB)<br>(DEG)<br>0 360  | PFCs Caliper X<br>(PFC1)<br>(IN) 7 -3        |  | Avg Holdup<br>(DDFHM)<br>0 (----) 1          |                            | Cable Speed (CS)<br>(M/MN) 0 25                 | Amplified<br>Temperature<br>(WTEP)<br>(DEGF) 0 2 | PFCs Spinner<br>(SPIN)<br>(RPS) -10 10                 |
| Tension<br>(TENS)<br>(LBF)<br>500 2500 | PFCs Caliper Y<br>(PFC2)<br>(IN) -3 7        |  | Filtered Water<br>Holdup (FHM)<br>0 (----) 1 |                            | Avg BUB count<br>(DDFBM)<br>(CPS) 0 500         | Well Pressure<br>(WPRE)<br>(PSIA) 2300 2700      | Filtered Auxiliary<br>Spinner 1 (SPI1)<br>(RPS) -10 10 |
|  | Pipe Ovalisation<br>Between PFC1 and<br>PFC2 |  | Well Fluid Density<br>(WFDE)<br>(G/C3) 0 1   |                            | Filtered Bubble<br>Count (FBM)<br>(CPS) 0 500   | Well Temperature<br>(WTEP)<br>(DEGF) 225 229     | Well Fluid Density<br>(WFDE)<br>(G/C3) 0 1             |
|  |  |  |  |                            | Filtered Main<br>Spinner (SPIN)<br>-10 (RPS) 10 |  |  |

|                             |                          |                       |                   |  |          |  |  |
|-----------------------------|--------------------------|-----------------------|-------------------|--|----------|--|--|
| Format: PFCS_Image_DL       |                          | Vertical Scale: 1:200 |                   | Graphics File Created: 27-Jan-2008 13:47 |          |  |  |
| OP System Version: 15C0-309 |                          |                       |                   |  |          |  |  |
| MCM                         |                          |                       |                   |  |          |  |  |
| PFCS-A                      | 15C0-309                 |                       | PILS-A            | 15C0-309                                 |          |  |  |
| DEFT-C2                     | 15C0-309                 |                       | PGMC-A            | 15C0-309                                 |          |  |  |
| PSPT-B                      | 15C0-309                 |                       |                   |  |          |  |  |
| Input DLIS Files            |                          |                       |                   |  |          |  |  |
| DEFAULT                     | Flip_FCS_ILS_DEFT_041LUP | PRODUCER              | 27-Jan-2008 13:45 | 2522.1 M                                 | 2341.9 M |  |  |
| Output DLIS Files           |                          |                       |                   |  |          |  |  |
| DEFAULT                     | FCS_ILS_DEFT_GMS_041PUP  | FN:11                 | PRODUCER          | 27-Jan-2008 13:47                        |          |  |  |



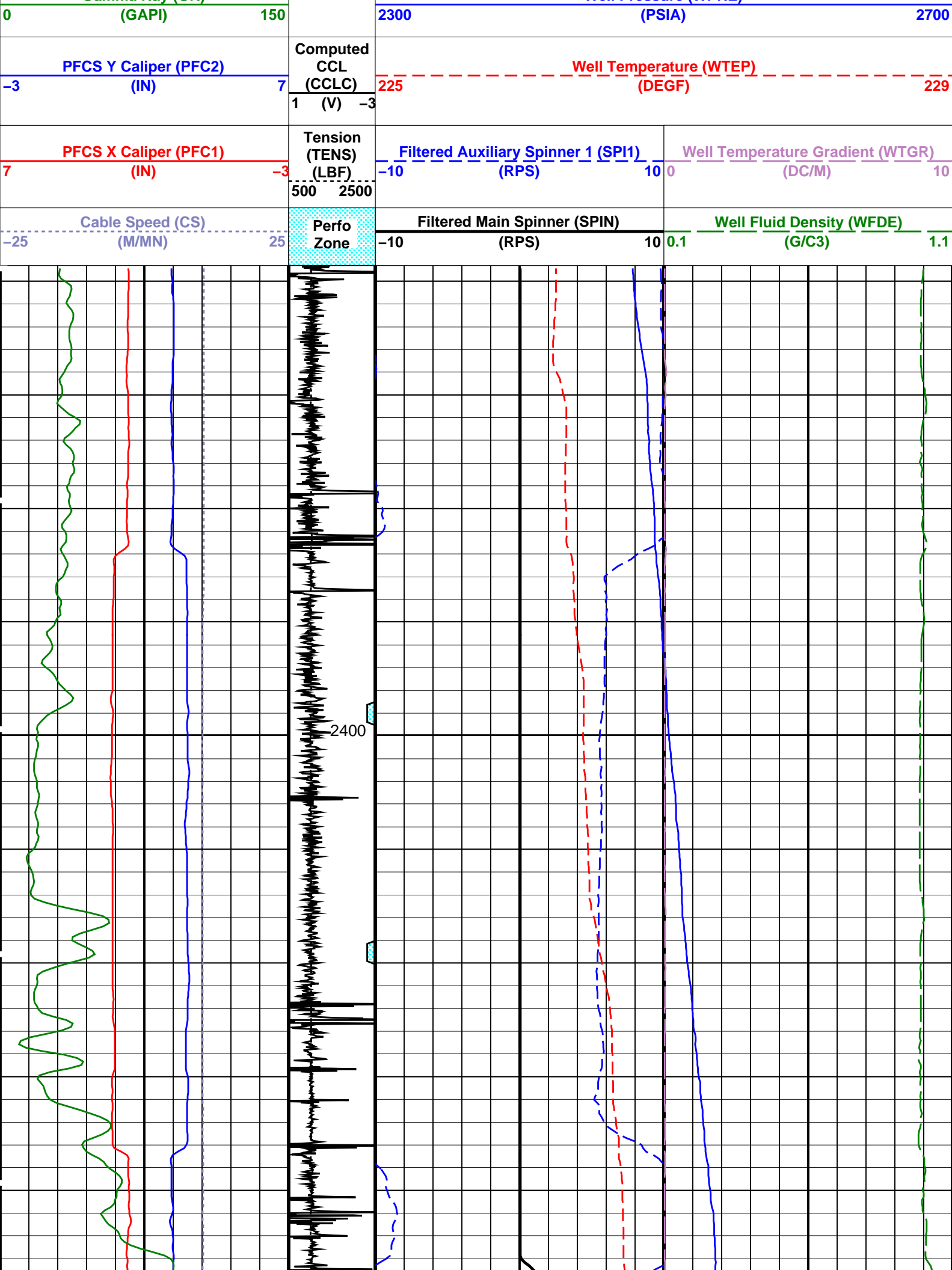
Down Pass @ 10 M/Min

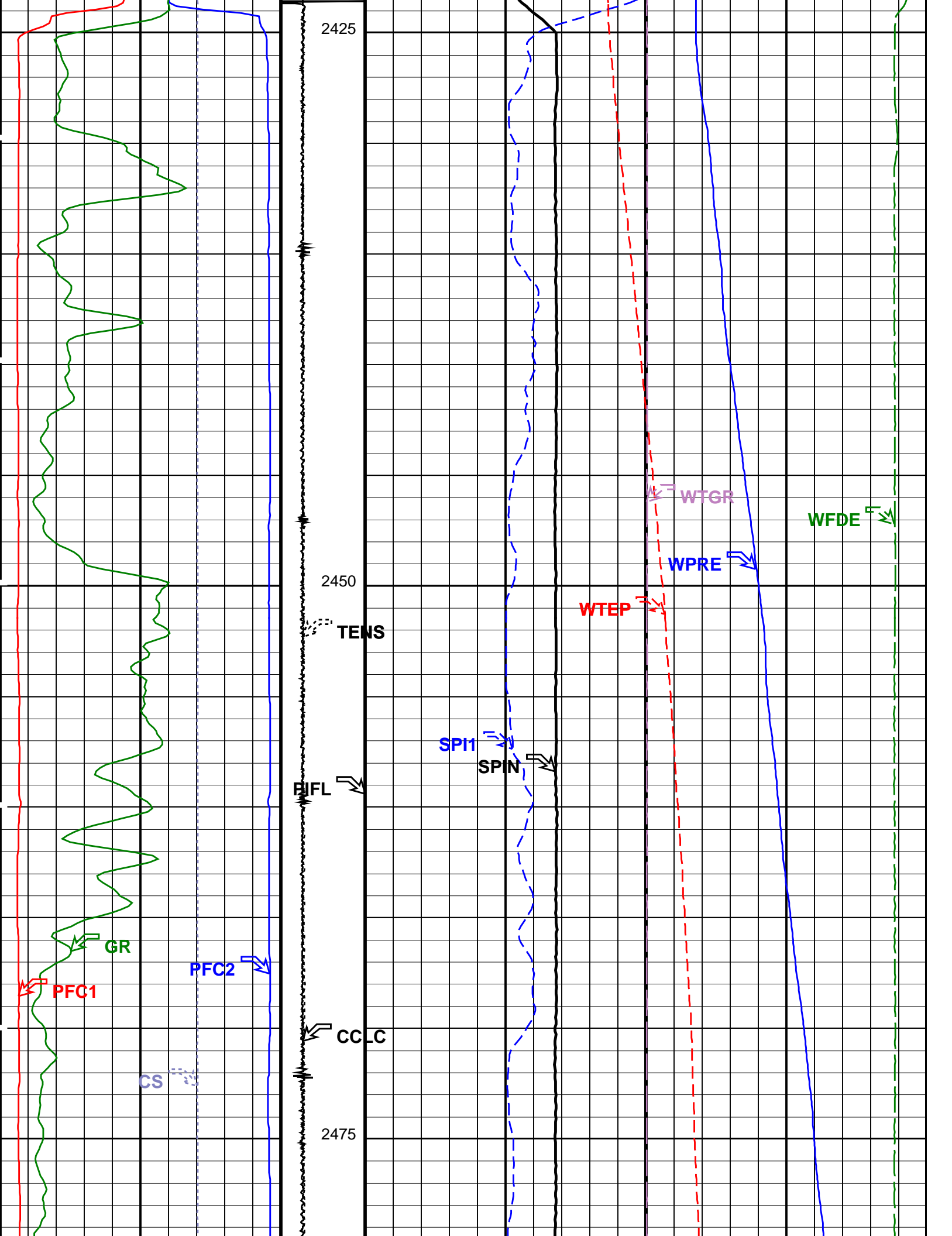
Well Flowing (F2)

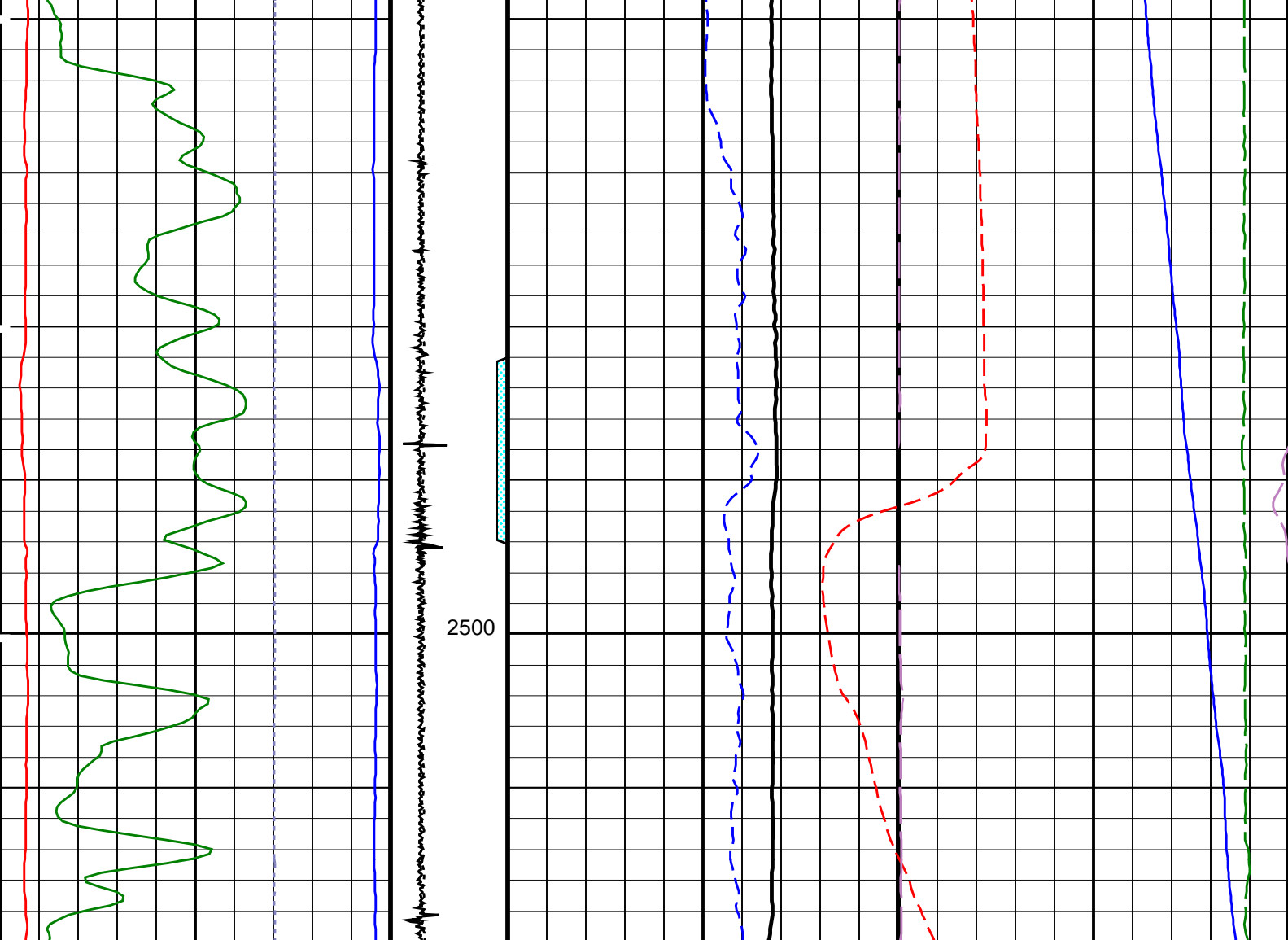
MAXIS Field Log

|   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| <div>Input DLIS Files</div> <div> <div>DEFAULT</div> <div>Flip_FCS_ILS_DEFT_041LUP</div> <div>PRODUCER</div> <div>27-Jan-2008 13:45</div> <div>2522.1 M</div> <div>2341.9 M</div> </div>                  |  |  |  |  |  |  |  |
| <div>Output DLIS Files</div> <div> <div>DEFAULT</div> <div>FCS_ILS_DEFT_GMS_041PUP</div> <div>FN:11</div> <div>PRODUCER</div> <div>27-Jan-2008 13:47</div> <div>2510.0 M</div> <div>2379.3 M</div> </div> |  |  |  |  |  |  |  |
| <div>OP System Version: 15C0-309</div> <div>MCM</div> <div> <div>PFCS-A15C0-309</div> <div>DEFT-C215C0-309</div> <div>PSPT-B15C0-309</div> <div>PILS-A15C0-309</div> <div>PGMC-A15C0-309</div> </div>     |  |  |  |  |  |  |  |
| PIP SUMMARY   |  |  |  |  |  |  |  |
| <div>Time Mark Every 60 S</div>   |  |  |  |  |  |  |  |

|                |  |  |                      |
|----------------|--|--|----------------------|
| Gamma Ray (GR) |  |  | Well Pressure (WPRE) |
|----------------|--|--|----------------------|







|  |   |   |   |
|--|---|---|---|
| <div>Cable Speed (CS)<br/>(M/MN)</div> <div>-2525</div>  | <div>Perfo<br/>Zone</div>                                     | <div>Filtered Main Spinner (SPIN)<br/>(RPS)</div> <div>-1010</div>        | <div>Well Fluid Density (WFDE)<br/>(G/C3)</div> <div>0.11.1</div>     |
| <div>PFCS X Caliper (PFC1)<br/>(IN)</div> <div>7-3</div> | <div>Tension<br/>(TENS)<br/>(LBF)</div> <div>5002500</div>    | <div>Filtered Auxiliary Spinner 1 (SPI1)<br/>(RPS)</div> <div>-1010</div> | <div>Well Temperature Gradient (WTGR)<br/>(DC/M)</div> <div>010</div> |
| <div>PFCS Y Caliper (PFC2)<br/>(IN)</div> <div>-37</div> | <div>Computed<br/>CCL<br/>(CCLC)<br/>(V)</div> <div>1-3</div> | <div>Well Temperature (WTEP)<br/>(DEGF)</div> <div>225229</div>           |   |
| <div>Gamma Ray (GR)<br/>(GAPI)</div> <div>0150</div>     |   | <div>Well Pressure (WPRES)<br/>(PSIA)</div> <div>23002700</div>           |   |

|                                     |  |  |  |
|-------------------------------------|--|--|--|
| PIP SUMMARY                         |  |  |  |
| Time Mark Every 60 S                |  |  |  |
| Format: PSP_1 Vertical Scale: 1:200 |  | Graphics File Created: 27-Jan-2008 13:47 |  |

|                             |          |        |          |
|-----------------------------|----------|--------|----------|
| OP System Version: 15C0-309 |          |        |          |
| MCM                         |          |        |          |
| PFCS-A                      | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2                     | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B                      | 15C0-309 |        |          |

| Parameters                        |             |       |
|-----------------------------------|-------------|-------|
| DLIS Name                         | Description | Value |
| PFCS-A: PSP Flow and caliper Tool |             |       |

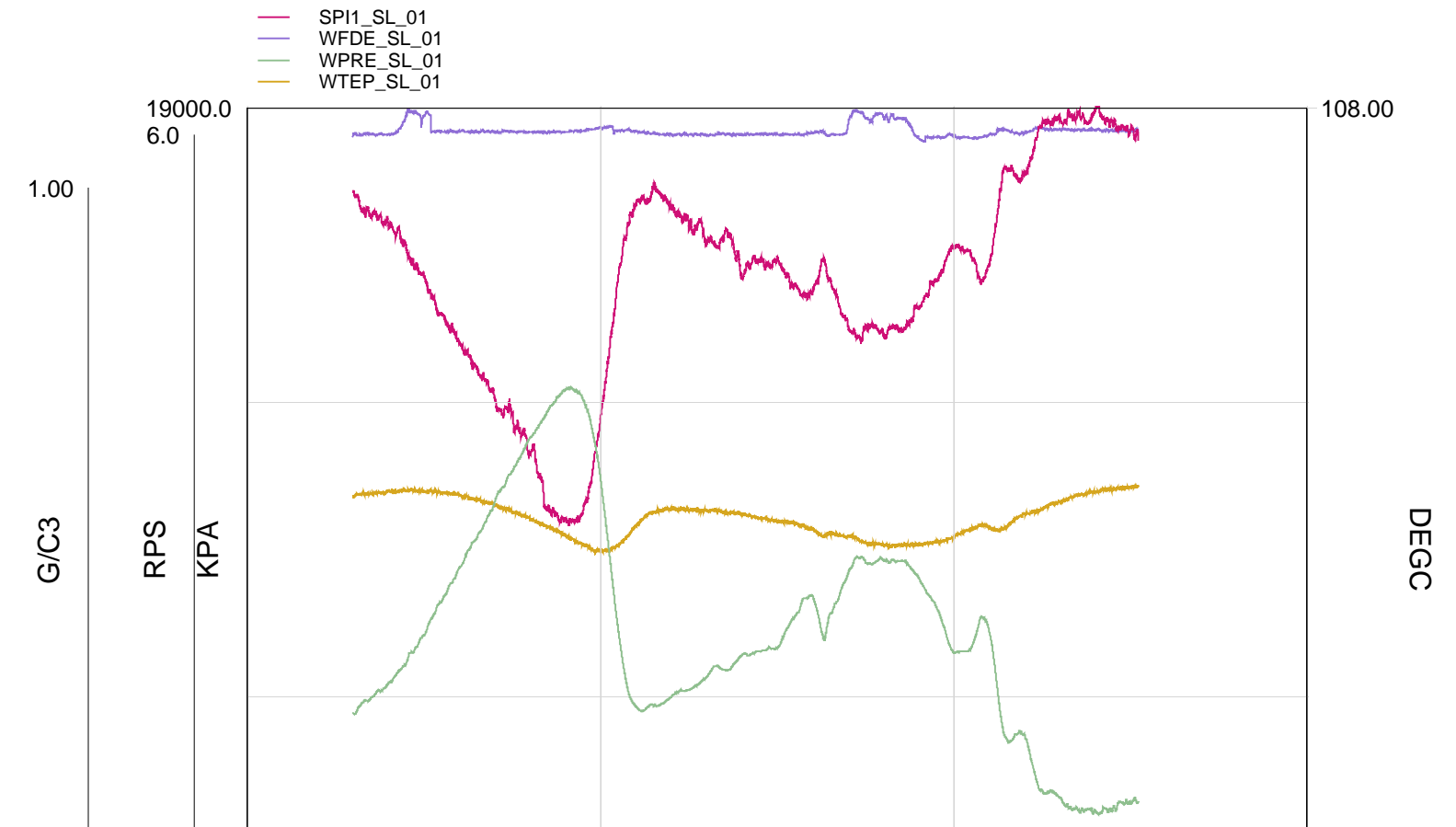
|  |   |                |      |
|--|---|----------------|------|
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |      |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16             | DEG  |
| SDCF   | Spinner Depth Constant Filter                     | 6              |      |
| SP11   | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |      |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |      |
| PILS-A: PSP In Line Spinner Flowmeter          |   |                |      |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |      |
| SDCF   | Spinner Depth Constant Filter                     | 6              |      |
| SP11   | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |      |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |      |
| PGMC-A: PSP Gradiomanometer Measurement Module |   |                |      |
| GCPG   | Gradio Surf.Cal Diff.Pres Gain                    | 1              |      |
| GCPO   | Gradio Surf.Cal Diff.Pres Offset                  | 0              | KPAA |
| PDSH   | Gradio Correction Density Shift                   | 0              | G/C3 |
| PSPT-B: Production Services Logging Platform   |   |                |      |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16             | DEG  |
| System and Miscellaneous                       |   |                |      |
| DO   | Depth Offset for Playback                         | -1.1           | M    |
| PP   | Playback Processing                               | RECOMPUTE      |      |

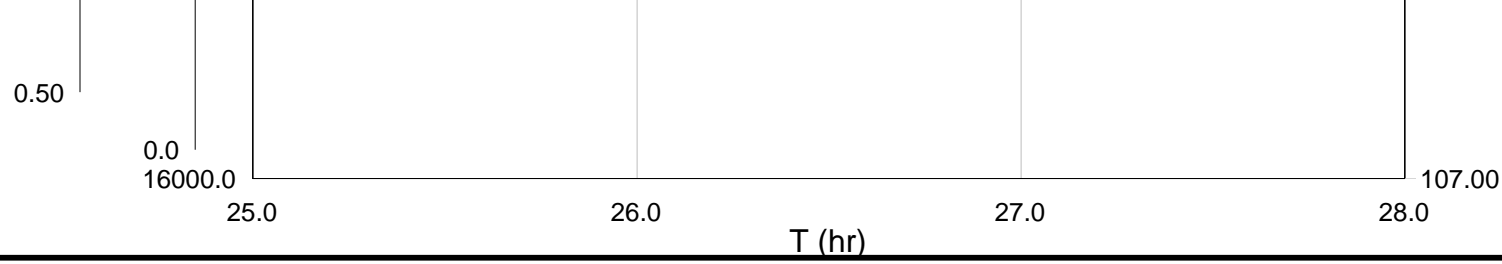
| Input DLIS Files  |                          |          |                   |                   |          |  |
|-------------------|--------------------------|----------|-------------------|-------------------|----------|--|
| DEFAULT           | Flip_FCS_ILS_DEFT_041LUP | PRODUCER | 27-Jan-2008 13:45 | 2522.1 M          | 2341.9 M |  |
| Output DLIS Files |                          |          |                   |                   |          |  |
| DEFAULT           | FCS_ILS_DEFT_GMS_041PUP  | FN:11    | PRODUCER          | 27-Jan-2008 13:47 |          |  |



Station @ 2350M  
Well Flowing (F2)

MAXIS Field Log





Station @ 2350M  
Well Flowing (F2)

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-16a

Input DLIS Files

FCS\_ILS\_DEFT\_GMS\_039LTP      FN:38      27-Jan-2008 12:46      2350.0 M      1.6 M

Output DLIS Files

DEFAULT      FCS\_ILS\_DEFT\_GMS\_039PTP      FN:9      PRODUCER      27-Jan-2008 13:31      2350.0 M      1.6 M

OP System Version: 15C0-309  
MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRE_SL)<br>2400 (PSIA) 2600 |  |  |         | Well Temperature (WTEP_SL)<br>220 (DEGC) 230 |  |  |        | Well Fluid Density (WFDE_SL)<br>0.1 (G/C3) 1.1 |  |      |  | Filtered Auxiliary Spinner 1<br>(SPI1_SL)<br>-10 (RPS) 10 |  |  |      |
|-----------------------------|---|--|--|---------|--|--|--|--------|--|--|------|--|---|--|--|------|
|                             |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:17:35                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:17:26                    |   |  |  | 2457.51 |  |  |  | 225.61 |  |  | 0.99 |  |   |  |  | 5.41 |
| 25:17:17                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:17:08                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:16:59                    |   |  |  | 2455.71 |  |  |  | 225.61 |  |  | 0.98 |  |   |  |  | 5.36 |
| 25:16:50                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:16:41                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:16:32                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:16:23                    |   |  |  | 2453.60 |  |  |  | 225.61 |  |  | 0.99 |  |   |  |  | 5.39 |
| 25:16:14                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:16:05                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:15:56                    |   |  |  | 2451.85 |  |  |  | 225.61 |  |  | 0.98 |  |   |  |  | 5.42 |
| 25:15:47                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:15:38                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:15:29                    |   |  |  | 2450.87 |  |  |  | 225.60 |  |  | 0.98 |  |   |  |  | 5.43 |
| 25:15:20                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:15:11                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:15:02                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:14:53                    |   |  |  | 2449.62 |  |  |  | 225.61 |  |  | 0.98 |  |   |  |  | 5.46 |
| 25:14:44                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:14:35                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:14:26                    |   |  |  | 2448.91 |  |  |  | 225.60 |  |  | 0.98 |  |   |  |  | 5.45 |
| 25:14:17                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:14:08                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:13:59                    |   |  |  | 2448.40 |  |  |  | 225.60 |  |  | 0.98 |  |   |  |  | 5.45 |
| 25:13:50                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:13:41                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:13:32                    |   |  |  |         |  |  |  |        |  |  |      |  |   |  |  |      |
| 25:13:23                    |   |  |  | 2447.77 |  |  |  | 225.60 |  |  | 0.98 |  |   |  |  | 5.50 |



## 1.5 M

## 1.5 M

15C0-309  
15C0-309

[illegible]


|          |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
|----------|--|--|--|---------|--|--|--|--------|--|--|--|------|--|--|--|------|
| 24:55:54 |  |  |  | 2472.09 |  |  |  | 226.23 |  |  |  | 1.00 |  |  |  | 6.04 |
| 24:55:45 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:55:36 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:55:27 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:55:18 |  |  |  | 2471.23 |  |  |  | 226.23 |  |  |  | 0.99 |  |  |  | 6.13 |
| 24:55:09 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:55:00 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:54:51 |  |  |  | 2469.14 |  |  |  | 226.23 |  |  |  | 0.99 |  |  |  | 6.20 |
| 24:54:42 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:54:33 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:54:24 |  |  |  | 2468.98 |  |  |  | 226.23 |  |  |  | 0.99 |  |  |  | 6.19 |
| 24:54:15 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:54:06 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:53:57 |  |  |  |         |  |  |  |        |  |  |  |      |  |  |  |      |
| 24:53:48 |  |  |  | 2467.57 |  |  |  | 226.23 |  |  |  | 0.99 |  |  |  | 6.05 |

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRE_SL)<br>(PSIA) |      | Well Temperature (WTEP_SL)<br>(DEGC) |     | Well Fluid Density (WFDE_SL)<br>(G/C3) |     | Filtered Auxiliary Spinner 1<br>(SPI1_SL)<br>(RPS) |    |
|-----------------------------|-----------------------------------|------|--------------------------------------|-----|--|-----|--|----|
|                             | 2400                              | 2600 | 220                                  | 230 | 0.1                                    | 1.1 | -10  | 10 |

Format: Station      Vertical Scale: 1" per 60S      Graphics File Created: 27-Jan-2008 13:30

| OP System Version: 15C0-309<br>MCM |          |        |          |
|------------------------------------|----------|--------|----------|
| PFCS-A                             | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2                            | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B                             | 15C0-309 |        |          |

| Input DLIS Files        |                         |                   |          |                   |  |
|-------------------------|-------------------------|-------------------|----------|-------------------|--|
| FCS_ILS_DEFT_GMS_038LTP | FN:37                   | 27-Jan-2008 12:46 | 2385.0 M | 1.5 M             |  |
| Output DLIS Files       |                         |                   |          |                   |  |
| DEFAULT                 | FCS_ILS_DEFT_GMS_038PTP | FN:8              | PRODUCER | 27-Jan-2008 13:30 |  |



**Station @ 2394M**  
**Well Flowing (F2)**

MAXIS Field Log

Company: Esso Australia Pty Ltd.      Well: A-16a

| Input DLIS Files        |                         |                   |          |                   |                     |
|-------------------------|-------------------------|-------------------|----------|-------------------|---------------------|
| FCS_ILS_DEFT_GMS_037LTP | FN:36                   | 27-Jan-2008 12:46 | 2394.5 M | 1.6 M             |                     |
| Output DLIS Files       |                         |                   |          |                   |                     |
| DEFAULT                 | FCS_ILS_DEFT_GMS_037PTP | FN:7              | PRODUCER | 27-Jan-2008 13:29 | 2394.5 M      1.6 M |

| OP System Version: 15C0-309<br>MCM |          |        |          |
|------------------------------------|----------|--------|----------|
| PFCS-A                             | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2                            | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B                             | 15C0-309 |        |          |

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRE_SL)<br>(PSIA) |      | Well Temperature (WTEP_SL)<br>(DEGC) |     | Well Fluid Density (WFDE_SL)<br>(G/C3) |     | Filtered Auxiliary Spinner 1<br>(SPI1_SL)<br>(RPS) |    |
|-----------------------------|-----------------------------------|------|--------------------------------------|-----|--|-----|--|----|
|                             | 2400                              | 2600 | 220                                  | 230 | 0.1                                    | 1.1 | -10  | 10 |

|          |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|
| 24:51:19 |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|

|          |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
|----------|--|--|---------|--|--|--------|--|--|--|------|--|--|--|------|
| 24:51:10 |  |  | 2473.83 |  |  | 226.32 |  |  |  | 0.99 |  |  |  | 1.98 |
| 24:51:01 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:50:52 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:50:43 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:50:34 |  |  | 2472.72 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 2.04 |
| 24:50:25 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:50:16 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:50:07 |  |  | 2470.87 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 2.03 |
| 24:49:58 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:49:49 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:49:40 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:49:31 |  |  | 2472.91 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.98 |
| 24:49:22 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:49:13 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:49:04 |  |  | 2468.92 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 2.01 |
| 24:48:55 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:48:46 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:48:37 |  |  | 2472.44 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.94 |
| 24:48:28 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:48:19 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:48:10 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:48:01 |  |  | 2472.61 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 2.03 |
| 24:47:52 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:47:43 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:47:34 |  |  | 2472.41 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.90 |
| 24:47:25 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:47:16 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:47:07 |  |  | 2476.51 |  |  | 226.30 |  |  |  | 0.99 |  |  |  | 1.98 |
| 24:46:58 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:46:49 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:46:40 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:46:31 |  |  | 2479.99 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.94 |
| 24:46:22 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:46:13 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:46:04 |  |  | 2481.99 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.93 |
| 24:45:55 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:45:46 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:45:37 |  |  | 2482.63 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.92 |
| 24:45:28 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:45:19 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:45:10 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:45:01 |  |  | 2484.83 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.88 |
| 24:44:52 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:44:43 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:44:34 |  |  | 2482.47 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.90 |
| 24:44:25 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:44:16 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:44:07 |  |  | 2480.33 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.93 |
| 24:43:58 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:43:49 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:43:40 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:43:31 |  |  | 2477.57 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.97 |
| 24:43:22 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:43:13 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:43:04 |  |  | 2472.96 |  |  | 226.30 |  |  |  | 0.99 |  |  |  | 1.93 |
| 24:42:55 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:42:46 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:42:37 |  |  | 2471.05 |  |  | 226.30 |  |  |  | 0.99 |  |  |  | 1.91 |
| 24:42:28 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:42:19 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:42:10 |  |  | 2472.28 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.90 |
| 24:42:01 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:41:52 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:41:43 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:41:34 |  |  | 2475.31 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.87 |
| 24:41:25 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:41:16 |  |  |         |  |  |        |  |  |  |      |  |  |  |      |
| 24:41:07 |  |  | 2479.21 |  |  | 226.31 |  |  |  | 0.99 |  |  |  | 1.83 |

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRE_SL)<br>2400 (PSIA) 2600 |  | Well Temperature (WTEP_SL)<br>220 (DEGC) 230 |  | Well Fluid Density (WFDE_SL)<br>0.1 (G/C3) 1.1 |  | Filtered Auxiliary Spinner 1<br>(SPI1_SL)<br>-10 (RPS) 10 |  |
|-----------------------------|---|--|--|--|--|--|---|--|
|-----------------------------|---|--|--|--|--|--|---|--|

## MCM

|        |          |
|--------|----------|
| PILS-A | 15C0-309 |
| PGMC-A | 15C0-309 |

|                         |       |                   |          |       |
|-------------------------|-------|-------------------|----------|-------|
| FCS_ILS_DEFT_GMS_037LTP | FN:36 | 27-Jan-2008 12:46 | 2394.5 M | 1.6 M |
|-------------------------|-------|-------------------|----------|-------|

DEFAULT FCS\_ILS\_DEFT\_GMS\_037PTP FN:7 PRODUCER 27-Jan-2008 13:29



MAXIS Field Log

Well: A-16a

## 27-Jan-2008 12:46

|         |                         |      |          |                   |          |       |
|---------|-------------------------|------|----------|-------------------|----------|-------|
| DEFAULT | FCS_ILS_DEFT_GMS_036PTP | FN:6 | PRODUCER | 27-Jan-2008 13:25 | 2418.0 M | 1.6 M |
|---------|-------------------------|------|----------|-------------------|----------|-------|

**MCM**

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

[illegible]

|          |  |         |  |        |  |      |  |      |
|----------|--|---------|--|--------|--|------|--|------|
| 24:35:17 |  | 2544.26 |  | 226.48 |  | 0.98 |  | 1.58 |
| 24:35:08 |  |         |  |        |  |      |  |      |
| 24:34:59 |  |         |  |        |  |      |  |      |
| 24:34:50 |  |         |  |        |  |      |  |      |
| 24:34:41 |  | 2547.14 |  | 226.49 |  | 0.98 |  | 1.53 |
| 24:34:32 |  |         |  |        |  |      |  |      |
| 24:34:23 |  |         |  |        |  |      |  |      |
| 24:34:14 |  | 2549.60 |  | 226.49 |  | 0.98 |  | 1.57 |
| 24:34:05 |  |         |  |        |  |      |  |      |
| 24:33:56 |  |         |  |        |  |      |  |      |
| 24:33:47 |  | 2548.20 |  | 226.49 |  | 0.98 |  | 1.59 |
| 24:33:38 |  |         |  |        |  |      |  |      |
| 24:33:29 |  |         |  |        |  |      |  |      |
| 24:33:20 |  |         |  |        |  |      |  |      |
| 24:33:11 |  | 2547.96 |  | 226.49 |  | 0.98 |  | 1.59 |
| 24:33:02 |  |         |  |        |  |      |  |      |
| 24:32:53 |  |         |  |        |  |      |  |      |
| 24:32:44 |  | 2548.57 |  | 226.49 |  | 0.98 |  | 1.57 |
| 24:32:35 |  |         |  |        |  |      |  |      |
| 24:32:26 |  |         |  |        |  |      |  |      |
| 24:32:17 |  | 2550.28 |  | 226.50 |  | 0.98 |  | 1.58 |
| 24:32:08 |  |         |  |        |  |      |  |      |
| 24:31:59 |  |         |  |        |  |      |  |      |
| 24:31:50 |  |         |  |        |  |      |  |      |
| 24:31:41 |  | 2553.31 |  | 226.50 |  | 0.98 |  | 1.49 |
| 24:31:32 |  |         |  |        |  |      |  |      |
| 24:31:23 |  |         |  |        |  |      |  |      |
| 24:31:14 |  | 2558.06 |  | 226.51 |  | 0.98 |  | 1.45 |
| 24:31:05 |  |         |  |        |  |      |  |      |
| 24:30:56 |  |         |  |        |  |      |  |      |
| 24:30:47 |  | 2562.70 |  | 226.51 |  | 0.98 |  | 1.40 |
| 24:30:38 |  |         |  |        |  |      |  |      |
| 24:30:29 |  |         |  |        |  |      |  |      |
| 24:30:20 |  |         |  |        |  |      |  |      |
| 24:30:11 |  | 2569.70 |  | 226.51 |  | 0.98 |  | 1.32 |
| 24:30:02 |  |         |  |        |  |      |  |      |
| 24:29:53 |  |         |  |        |  |      |  |      |
| 24:29:44 |  | 2577.57 |  | 226.52 |  | 0.98 |  | 1.23 |
| 24:29:35 |  |         |  |        |  |      |  |      |
| 24:29:26 |  |         |  |        |  |      |  |      |
| 24:29:17 |  | 2585.52 |  | 226.53 |  | 0.98 |  | 1.22 |
| 24:29:08 |  |         |  |        |  |      |  |      |
| 24:28:59 |  |         |  |        |  |      |  |      |
| 24:28:50 |  |         |  |        |  |      |  |      |
| 24:28:41 |  | 2590.92 |  | 226.54 |  | 0.98 |  | 1.00 |
| 24:28:32 |  |         |  |        |  |      |  |      |
| 24:28:23 |  |         |  |        |  |      |  |      |
| 24:28:14 |  | 2596.15 |  | 226.56 |  | 0.98 |  | 1.00 |

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRE_SL)<br>2500<br>(PSIA) | 2700 | Well Temperature (WTEP_SL)<br>220<br>(DEGC) | 230 | Well Fluid Density (WFDE_SL)<br>0.1<br>(G/C3) | 1.1 | Filtered Auxiliary Spinner 1<br>(SPI1_SL)<br>(RPS) | -10 | 10 |
|-----------------------------|---|------|---|-----|---|-----|--|-----|----|
|-----------------------------|---|------|---|-----|---|-----|--|-----|----|

Format: Station      Vertical Scale: 1" per 60S      Graphics File Created: 27-Jan-2008 13:25

## OP System Version: 15C0-309

MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

## Input DLIS Files

27-Jan-2008 12:46

## Output DLIS Files

DEFAULT      FCS\_ILS\_DEFT\_GMS\_036PTP      FN:6      PRODUCER      27-Jan-2008 13:25

## MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-16a

## Input DLIS Files

27-Jan-2008 12:46

## Output DLIS Files

DEFAULT FCS\_ILS\_DEFT\_GMS\_035PTP FN:5 PRODUCER 27-Jan-2008 13:23 2422.1 M 1.7 M

## OP System Version: 15C0-309

MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRE_SL) |        |         | Well Temperature (WTEP_SL) |        |        | Well Fluid Density (WFDE_SL) |        |      | Filtered Auxiliary Spinner 1<br>(SPI1_SL) |       |      |
|-----------------------------|-------------------------|--------|---------|----------------------------|--------|--------|------------------------------|--------|------|---|-------|------|
|                             | 2500                    | (PSIA) | 2700    | 220                        | (DEGC) | 230    | 0.1                          | (G/C3) | 1.1  | -10                                       | (RPS) | 10   |
| 24:27:26                    |                         |        | 2600.97 |                            |        | 226.59 |                              |        | 0.98 |   |       | 1.00 |
| 24:27:17                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:27:08                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:26:59                    |                         |        | 2606.22 |                            |        | 226.67 |                              |        | 0.98 |   |       | 3.60 |
| 24:26:50                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:26:41                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:26:32                    |                         |        | 2608.12 |                            |        | 226.67 |                              |        | 0.98 |   |       | 6.24 |
| 24:26:23                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:26:14                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:26:05                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:25:56                    |                         |        | 2607.71 |                            |        | 226.68 |                              |        | 0.99 |   |       | 6.25 |
| 24:25:47                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:25:38                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:25:29                    |                         |        | 2606.15 |                            |        | 226.68 |                              |        | 0.99 |   |       | 6.26 |
| 24:25:20                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:25:11                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:25:02                    |                         |        | 2603.56 |                            |        | 226.68 |                              |        | 0.98 |   |       | 6.33 |
| 24:24:53                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:24:44                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:24:35                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:24:26                    |                         |        | 2601.07 |                            |        | 226.68 |                              |        | 0.99 |   |       | 6.38 |
| 24:24:17                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:24:08                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:23:59                    |                         |        | 2600.21 |                            |        | 226.68 |                              |        | 0.99 |   |       | 6.32 |
| 24:23:50                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:23:41                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:23:32                    |                         |        | 2599.78 |                            |        | 226.68 |                              |        | 0.99 |   |       | 6.32 |
| 24:23:23                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:23:14                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:23:05                    |                         |        | 2599.75 |                            |        | 226.68 |                              |        | 0.98 |   |       | 6.31 |
| 24:22:56                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:22:47                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:22:38                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:22:29                    |                         |        | 2601.25 |                            |        | 226.69 |                              |        | 0.99 |   |       | 6.37 |
| 24:22:20                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:22:11                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:22:02                    |                         |        | 2605.14 |                            |        | 226.69 |                              |        | 0.98 |   |       | 6.29 |
| 24:21:53                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:21:44                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:21:35                    |                         |        |         |                            |        |        |                              |        |      |   |       |      |
| 24:21:26                    |                         |        | 2609.08 |                            |        | 226.69 |                              |        | 0.99 |   |       | 6.30 |



## Output DLIS Files

DEFAULT FCS\_ILS\_DEFT\_GMS\_032PTP FN:3 PRODUCER 27-Jan-2008 13:17 2350.0 M 1.7 M

OP System Version: 15C0-309  
MCM

PFCS-A 15C0-309 PILS-A 15C0-309  
DEFT-C2 15C0-309 PGM-C-A 15C0-309  
PSPT-B 15C0-309

| Time of Job<br>(TOJ)<br>(S) | Well Pressure (WPRESL) |        |         | Well Temperature (WTEPSL) |        |        | Well Fluid Density (WFDESL) |        |      | Filtered Auxiliary Spinner 1<br>(SPI1_SL) |       |  |  |      |
|-----------------------------|------------------------|--------|---------|---------------------------|--------|--------|-----------------------------|--------|------|---|-------|--|--|------|
|                             | 2500                   | (PSIA) | 2600    | 220                       | (DEGC) | 230    | 0.1                         | (G/C3) | 1.1  | -10                                       | (RPS) |  |  | 10   |
| 24:00:41                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 24:00:32                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 24:00:23                    |                        |        | 2532.98 |                           |        | 225.56 |                             |        | 0.99 |   |       |  |  | 4.87 |
| 24:00:14                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 24:00:05                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:59:56                    |                        |        | 2534.46 |                           |        | 225.56 |                             |        | 0.99 |   |       |  |  | 4.90 |
| 23:59:47                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:59:38                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:59:29                    |                        |        | 2536.44 |                           |        | 225.56 |                             |        | 0.99 |   |       |  |  | 4.81 |
| 23:59:20                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:59:11                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:59:02                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:58:53                    |                        |        | 2535.38 |                           |        | 225.56 |                             |        | 0.99 |   |       |  |  | 4.86 |
| 23:58:44                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:58:35                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:58:26                    |                        |        | 2534.77 |                           |        | 225.57 |                             |        | 0.99 |   |       |  |  | 4.79 |
| 23:58:17                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:58:08                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:57:59                    |                        |        | 2533.97 |                           |        | 225.57 |                             |        | 0.99 |   |       |  |  | 4.84 |
| 23:57:50                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:57:41                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:57:32                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:57:23                    |                        |        | 2531.98 |                           |        | 225.57 |                             |        | 0.99 |   |       |  |  | 4.93 |
| 23:57:14                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:57:05                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:56:56                    |                        |        | 2532.11 |                           |        | 225.57 |                             |        | 0.99 |   |       |  |  | 4.90 |
| 23:56:47                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:56:38                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:56:29                    |                        |        | 2530.30 |                           |        | 225.57 |                             |        | 0.99 |   |       |  |  | 4.94 |
| 23:56:20                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:56:11                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:56:02                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:55:53                    |                        |        | 2529.11 |                           |        | 225.58 |                             |        | 0.99 |   |       |  |  | 4.96 |
| 23:55:44                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:55:35                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:55:26                    |                        |        | 2528.28 |                           |        | 225.58 |                             |        | 0.99 |   |       |  |  | 4.97 |
| 23:55:17                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:55:08                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:54:59                    |                        |        | 2525.64 |                           |        | 225.58 |                             |        | 0.99 |   |       |  |  | 4.88 |
| 23:54:50                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:54:41                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:54:32                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:54:23                    |                        |        | 2523.16 |                           |        | 225.58 |                             |        | 0.99 |   |       |  |  | 4.91 |
| 23:54:14                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:54:05                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:53:56                    |                        |        | 2520.58 |                           |        | 225.59 |                             |        | 0.99 |   |       |  |  | 5.00 |
| 23:53:47                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:53:38                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:53:29                    |                        |        | 2518.00 |                           |        | 225.59 |                             |        | 0.99 |   |       |  |  | 5.11 |
| 23:53:20                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:53:11                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:53:02                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:52:53                    |                        |        | 2515.33 |                           |        | 225.59 |                             |        | 0.99 |   |       |  |  | 5.16 |
| 23:52:44                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:52:35                    |                        |        |         |                           |        |        |                             |        |      |   |       |  |  |      |
| 23:52:26                    |                        |        | 2513.13 |                           |        | 225.59 |                             |        | 0.99 |   |       |  |  | 5.17 |

[illegible]

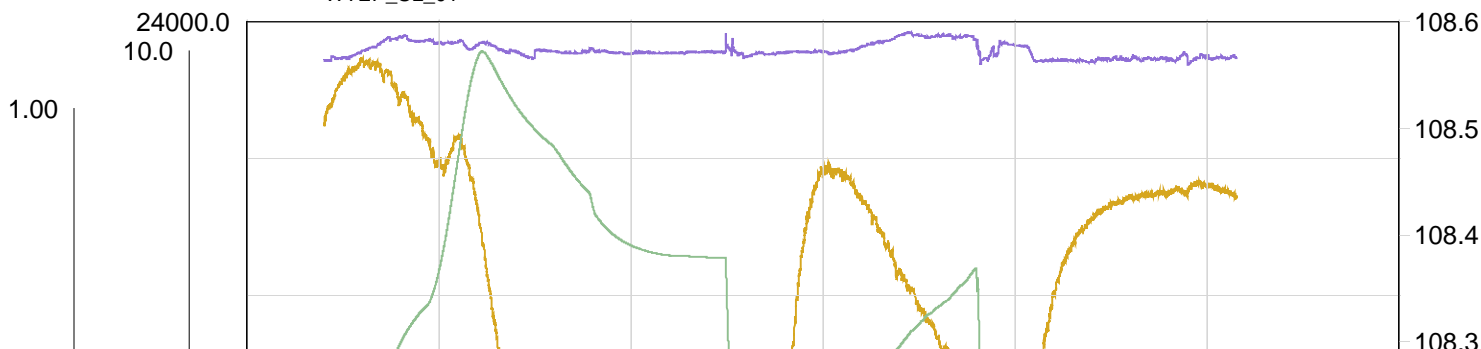
Format: Station      Vertical Scale: 1" per 60S      Graphics File Created: 27-Jan-2008 13:17

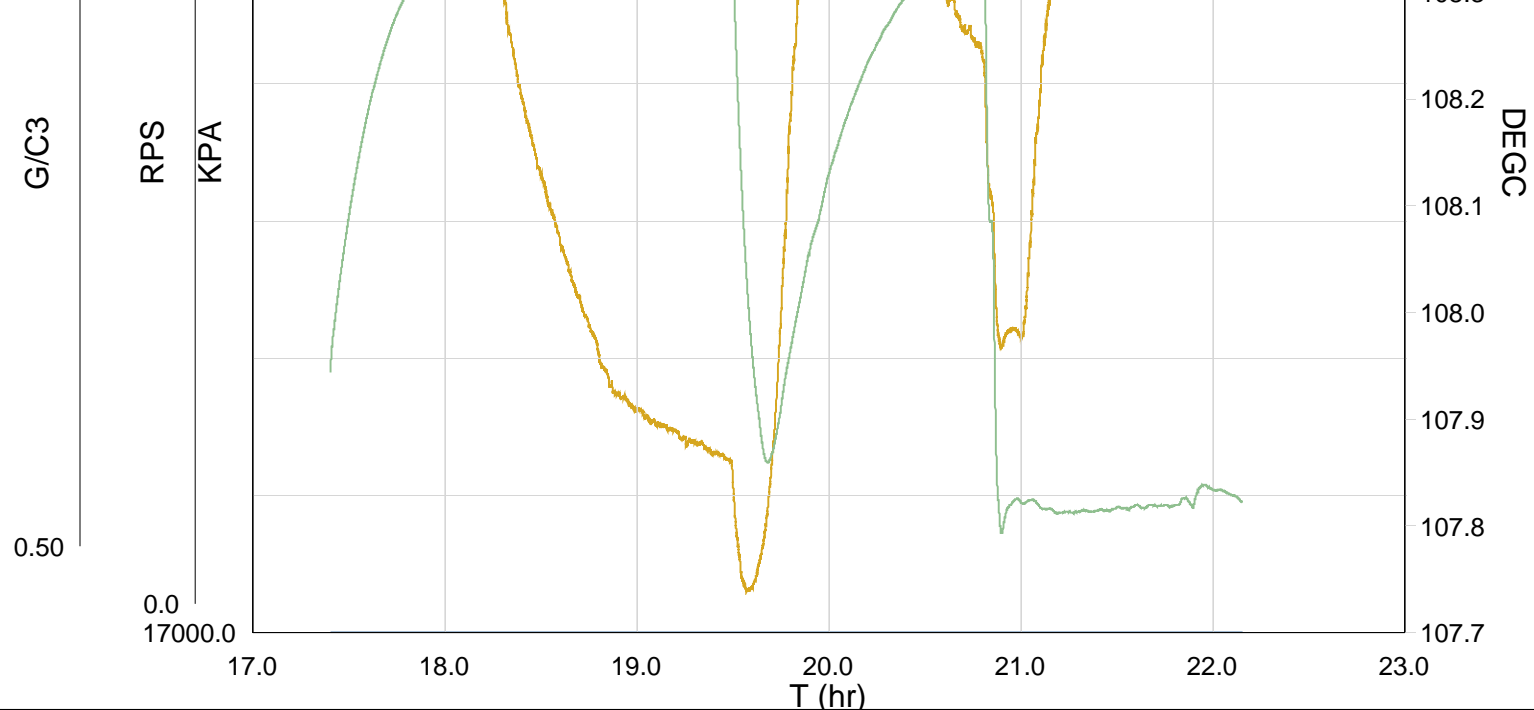
## Input DLIS Files

## Output DLIS Files



MAXIS Field Log





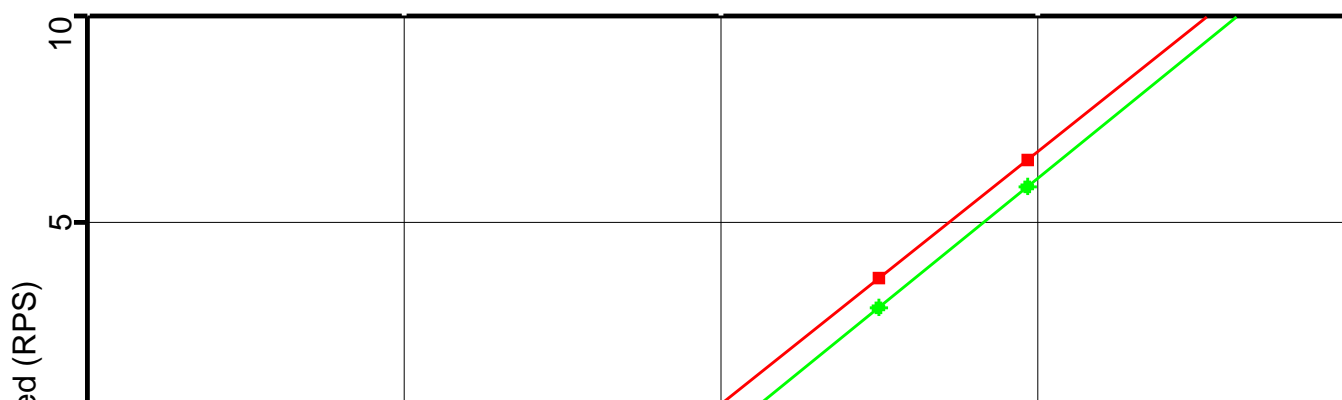
**Schlumberger**

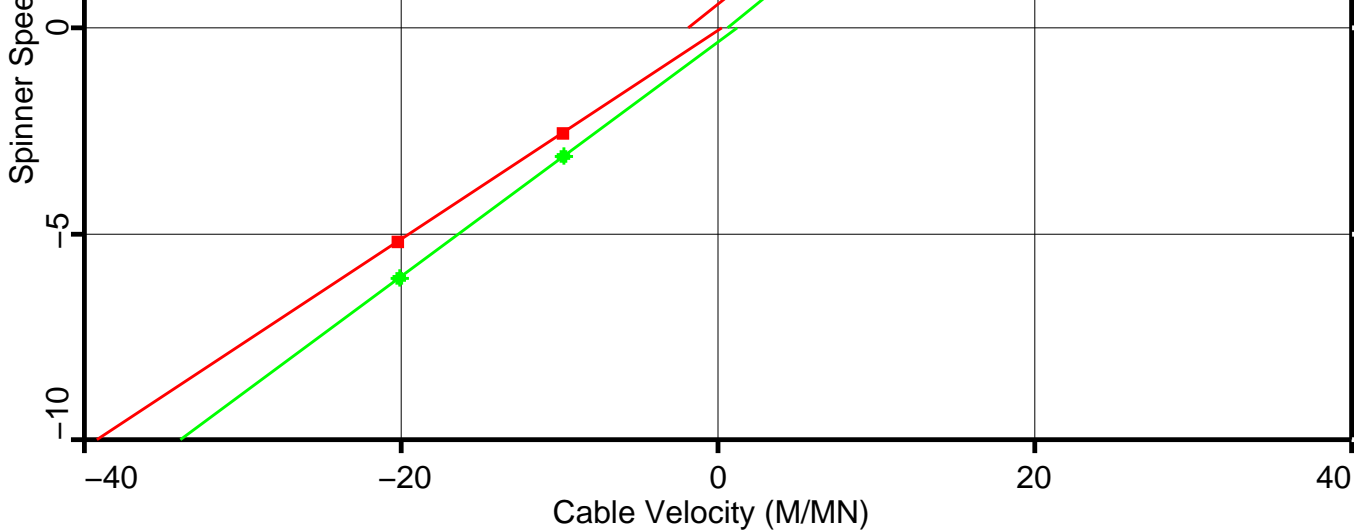
## PFCS Spinner Calibration Well Flowing (F1)

MAXIS Field Log

### Production Logging Quicklook Spinner Calibration

|   | Zone Depth<br>(M)        | Fluid Vel.<br>(M/MN) | Positive Spinner |                     |         | Negative Spinner |                     |         |
|---|--------------------------|----------------------|------------------|---------------------|---------|------------------|---------------------|---------|
|   |                          |                      | Slope<br>(RSMM)  | Intercept<br>(M/MN) | Correl. | Slope<br>(RSMM)  | Intercept<br>(M/MN) | Correl. |
| ■ | Zone 1 2480.0 – 2440.0 : |                      | 0.3076           | –1.8                | 1       | 0.2539           | 0.2                 | 1       |
| ◆ | Zone 2 2505.0 – 2500.0 : |                      | 0.3137           | 0.7                 | 1       | 0.2847           | 1.2                 | 1       |





**Schlumberger**

## Merged Sensors Well Flowing (F1)

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-16a

### PLQL Passes Summary

Pass # 1: Src: PLQL\_CS, Log: UP , Avg.CS: 9 M/MN  
Pass # 2: Src: PLQL\_CS, Log: DOWN , Avg.CS: 9 M/MN  
Pass # 3: Src: PLQL\_CS, Log: UP , Avg.CS: 20 M/MN  
Pass # 4: Src: PLQL\_CS, Log: DOWN , Avg.CS: 19 M/MN

Company: Esso Australia Pty Ltd.

Well: A-16a

### PLQL Data Manager Files

Pass # 1  
Pass # 2  
Pass # 3  
Pass # 4

Company: Esso Australia Pty Ltd.

Well: A-16a

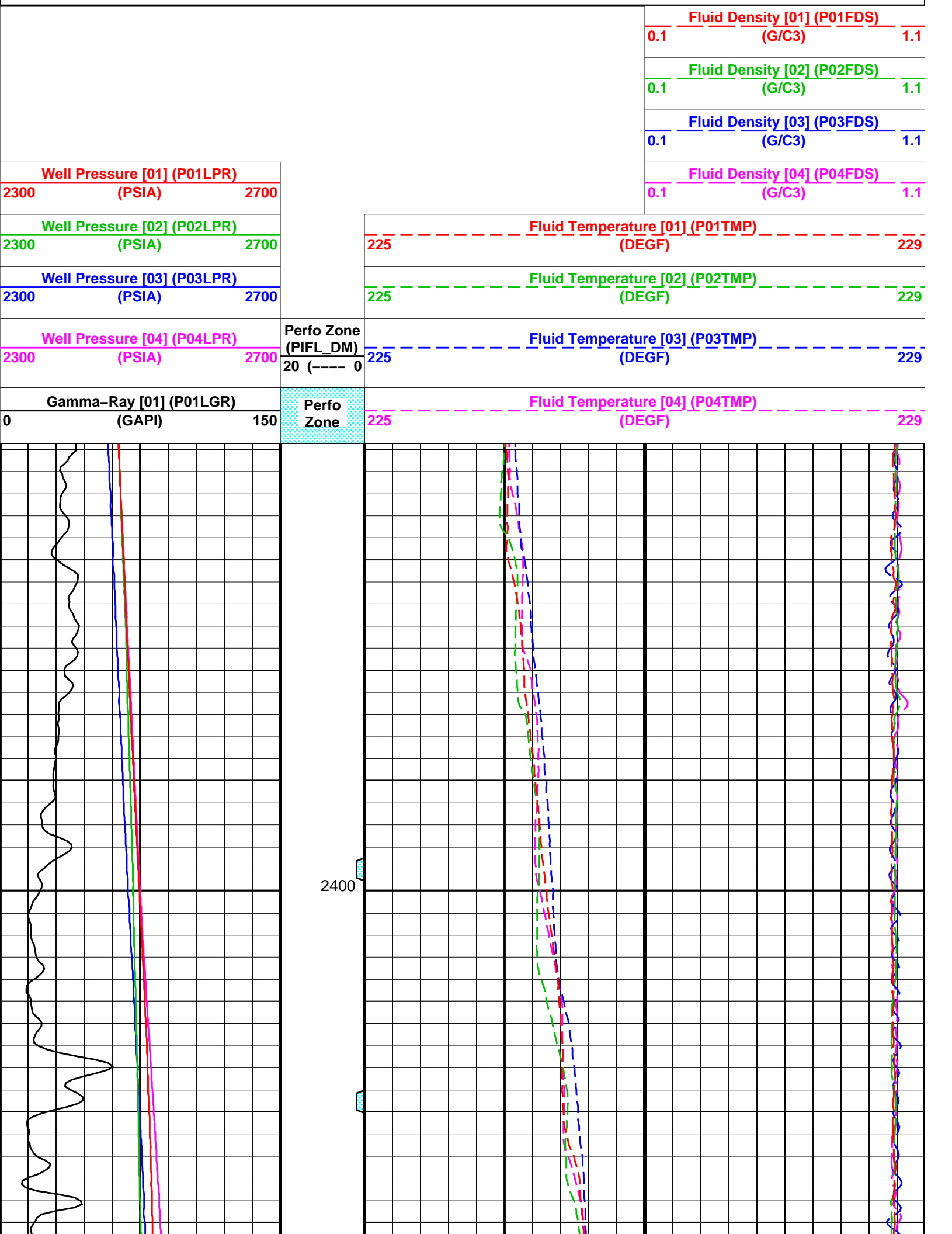
### Output DLIS Files

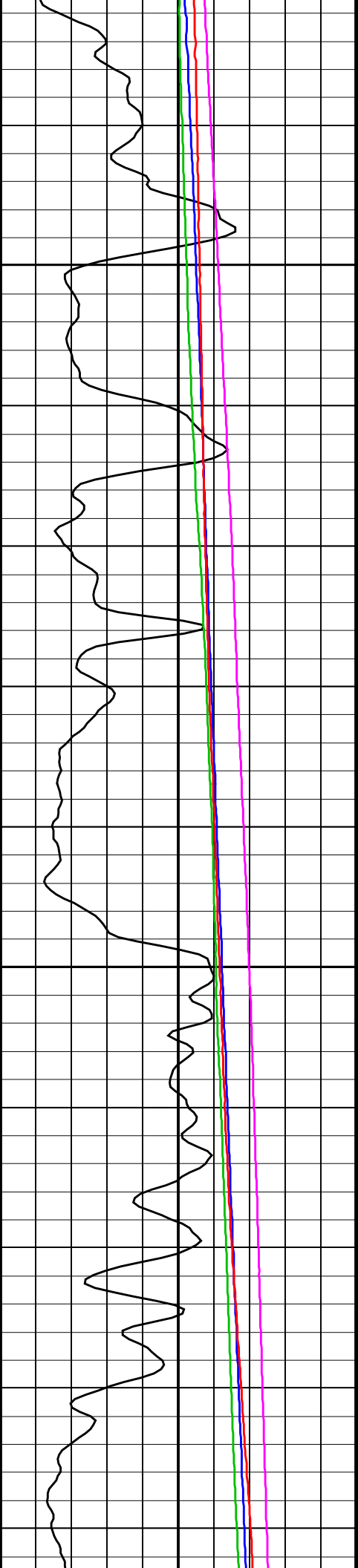
|         |                         |       |          |                   |          |          |
|---------|-------------------------|-------|----------|-------------------|----------|----------|
| DEFAULT | FCS_ILS_DEFT_GMS_026PUP | FN:52 | PRODUCER | 26-Jan-2008 06:34 | 2509.9 M | 2379.7 M |
|---------|-------------------------|-------|----------|-------------------|----------|----------|

### OP System Version: 15C0-309

MCM

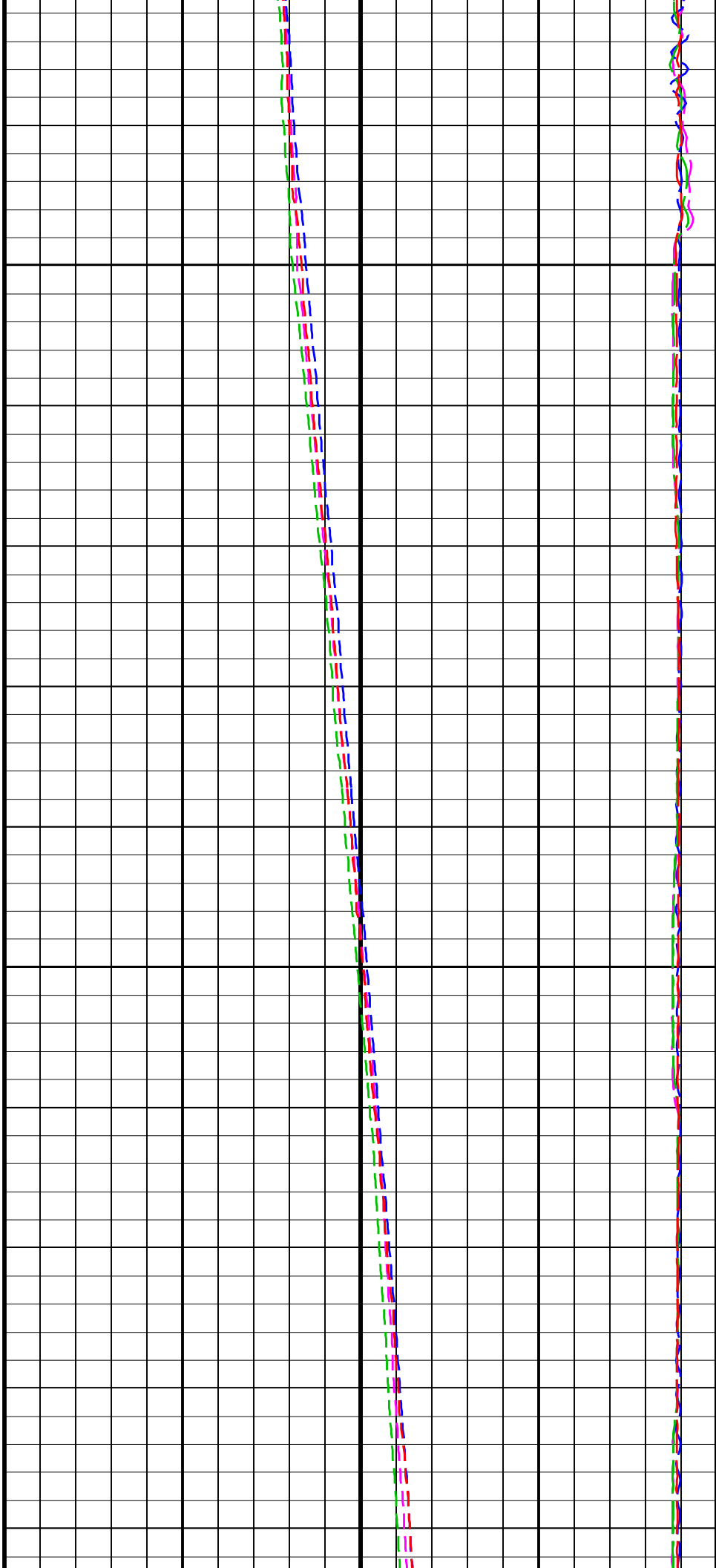
|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

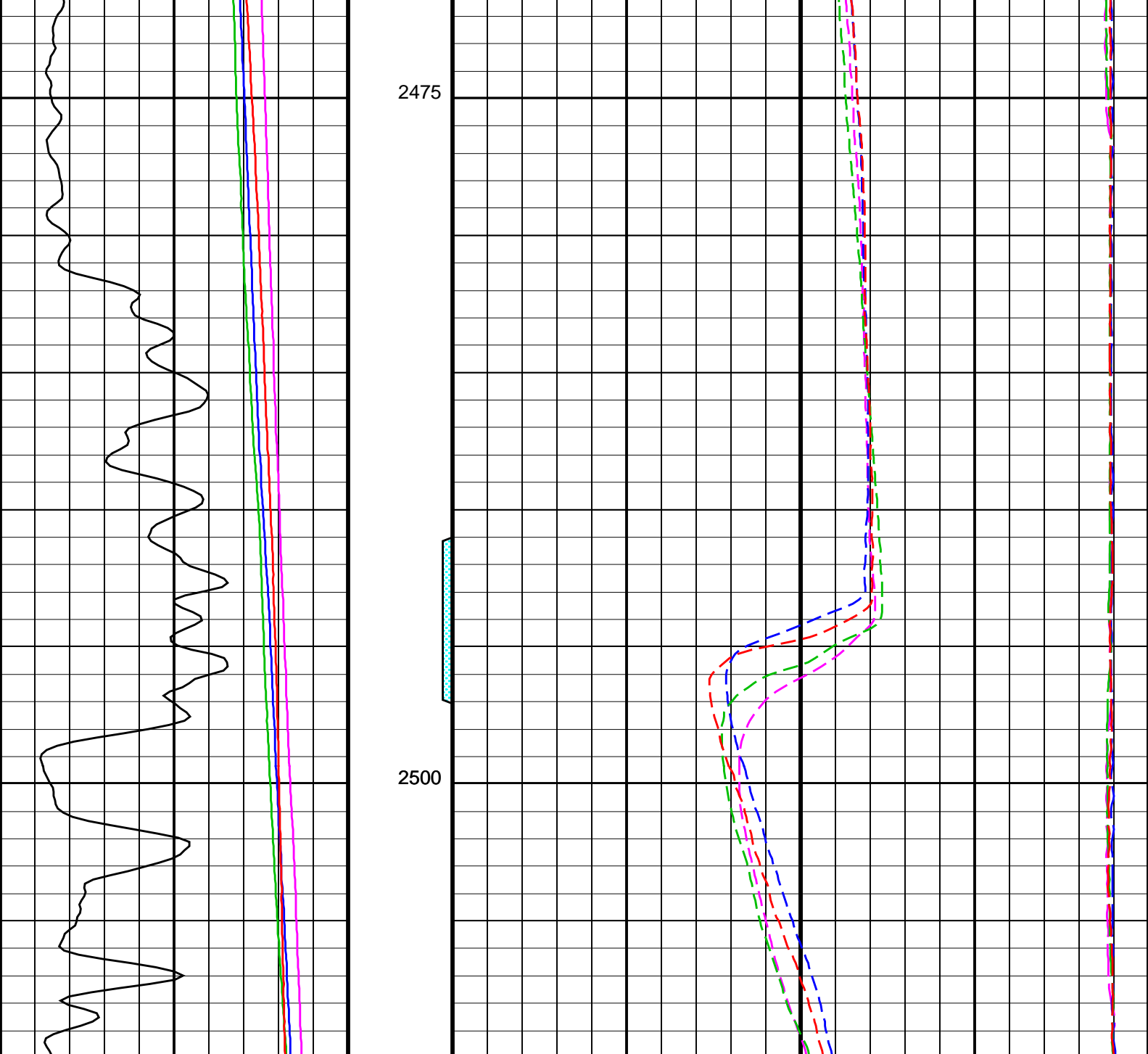




2425

2450





|                                       |      |      |                                       |     |   |         |
|---------------------------------------|------|------|---------------------------------------|-----|---|---------|
| Gamma-Ray [01] (P01LGR)<br>(GAPI)     | 0    | 150  | Perfo Zone                            | 225 | Fluid Temperature [04] (P04TMP)<br>(DEGF) | 229     |
| Well Pressure [04] (P04LPR)<br>(PSIA) | 2300 | 2700 | Perfo Zone<br>(PIFL_DM)<br>20 (---- 0 | 225 | Fluid Temperature [03] (P03TMP)<br>(DEGF) | 229     |
| Well Pressure [03] (P03LPR)<br>(PSIA) | 2300 | 2700 |                                       | 225 | Fluid Temperature [02] (P02TMP)<br>(DEGF) | 229     |
| Well Pressure [02] (P02LPR)<br>(PSIA) | 2300 | 2700 |                                       | 225 | Fluid Temperature [01] (P01TMP)<br>(DEGF) | 229     |
| Well Pressure [01] (P01LPR)<br>(PSIA) | 2300 | 2700 |                                       |     | Fluid Density [04] (P04FDS)<br>(G/C3)     | 0.1 1.1 |
|                                       |      |      |                                       |     | Fluid Density [03] (P03FDS)<br>(G/C3)     | 0.1 1.1 |
|                                       |      |      |                                       |     | Fluid Density [02] (P02FDS)<br>(G/C3)     | 0.1 1.1 |

OP System Version: 15C0-309  
MCM

PFCS-A15C0-309

DEFT-C215C0-309


PSPT-B15C0-309

PILS-A15C0-309

PGMC-A15C0-309

Output DLIS Files

DEFAULT    FCS\_ILS\_DEFT\_GMS\_026PUP    FN:52    PRODUCER    26-Jan-2008 06:34



Merged Spinners  
Well Flowing (F1)

MAXIS Field Log

Company: Esso Australia Pty Ltd.    Well: A-16a

PLQL Passes Summary

Pass # 1: Src: PLQL\_CS, Log: UP , Avg.CS: 9 M/MN

Pass # 2: Src: PLQL\_CS, Log: DOWN , Avg.CS: 9 M/MN

Pass # 3: Src: PLQL\_CS, Log: UP , Avg.CS: 20 M/MN

Pass # 4: Src: PLQL\_CS, Log: DOWN , Avg.CS: 19 M/MN

Company: Esso Australia Pty Ltd.    Well: A-16a

PLQL Data Manager Files

Pass # 1

Pass # 2

Pass # 3

Pass # 4

Company: Esso Australia Pty Ltd.    Well: A-16a

Output DLIS Files

DEFAULT    FCS\_ILS\_DEFT\_GMS\_026PUP    FN:52    PRODUCER    26-Jan-2008 06:34    2509.9 M    2379.7 M

OP System Version: 15C0-309  
MCM

PFCS-A15C0-309

DEFT-C215C0-309

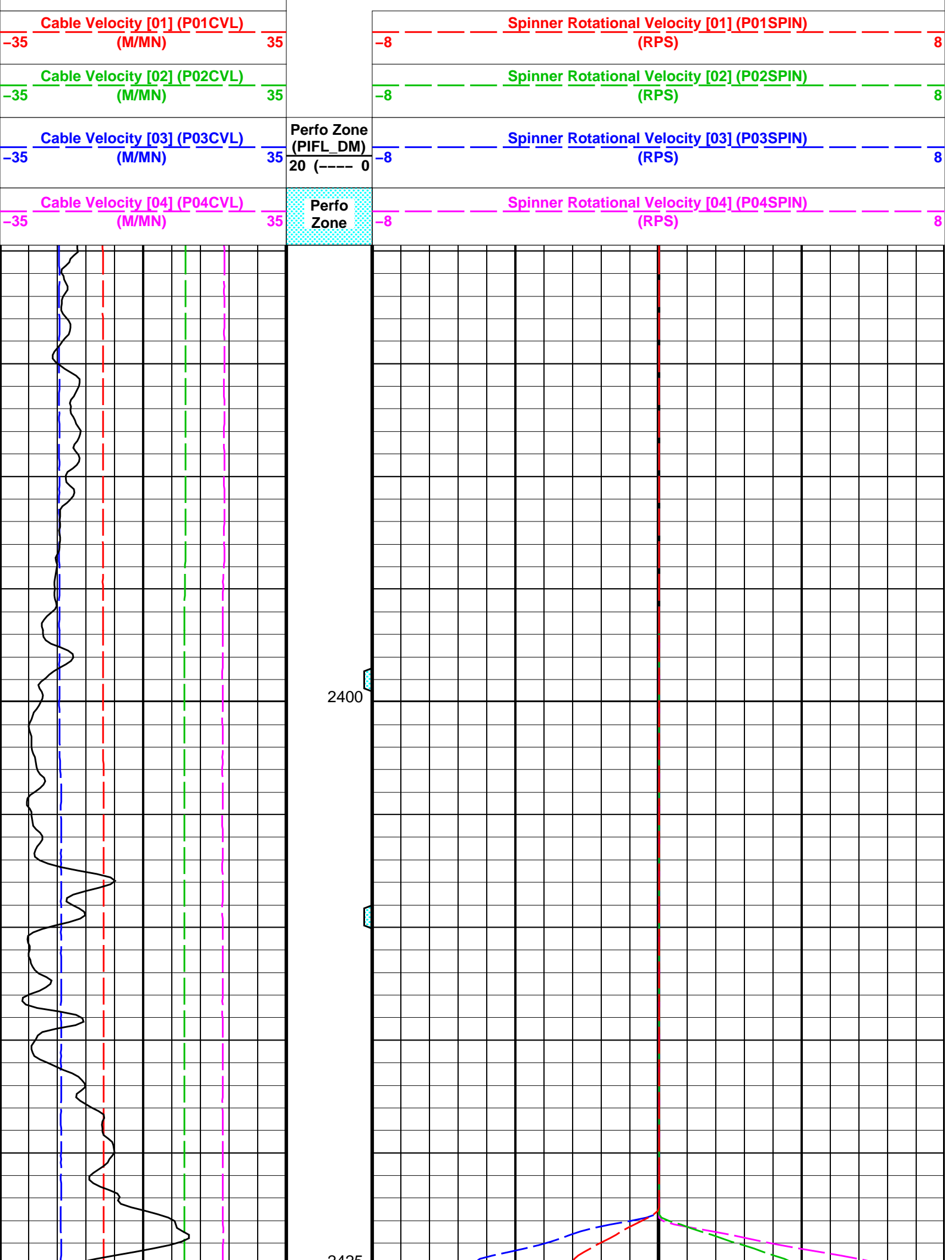
PSPT-B15C0-309

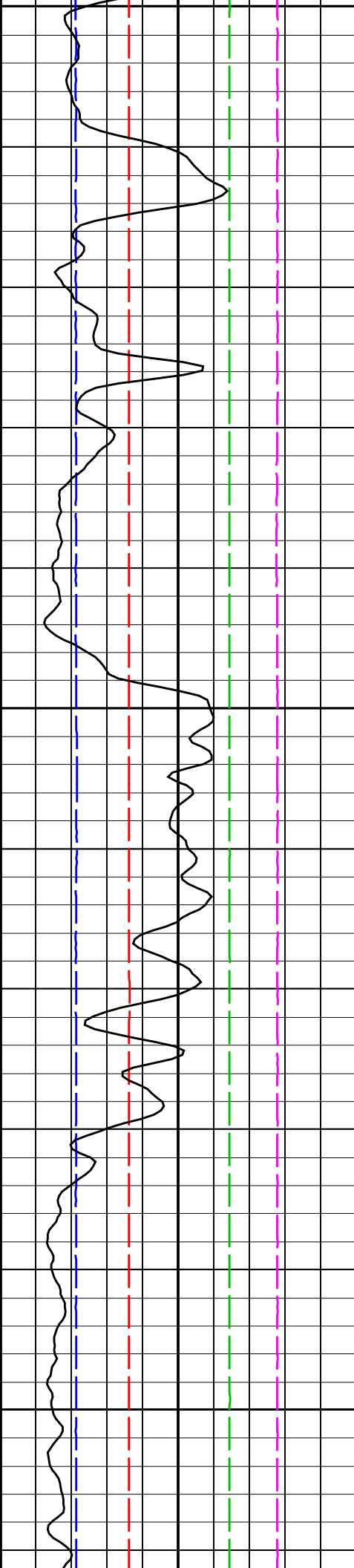
PILS-A15C0-309

PGMC-A15C0-309

Gamma-Ray [01] (P01LGR)

0 (GAPI) 150

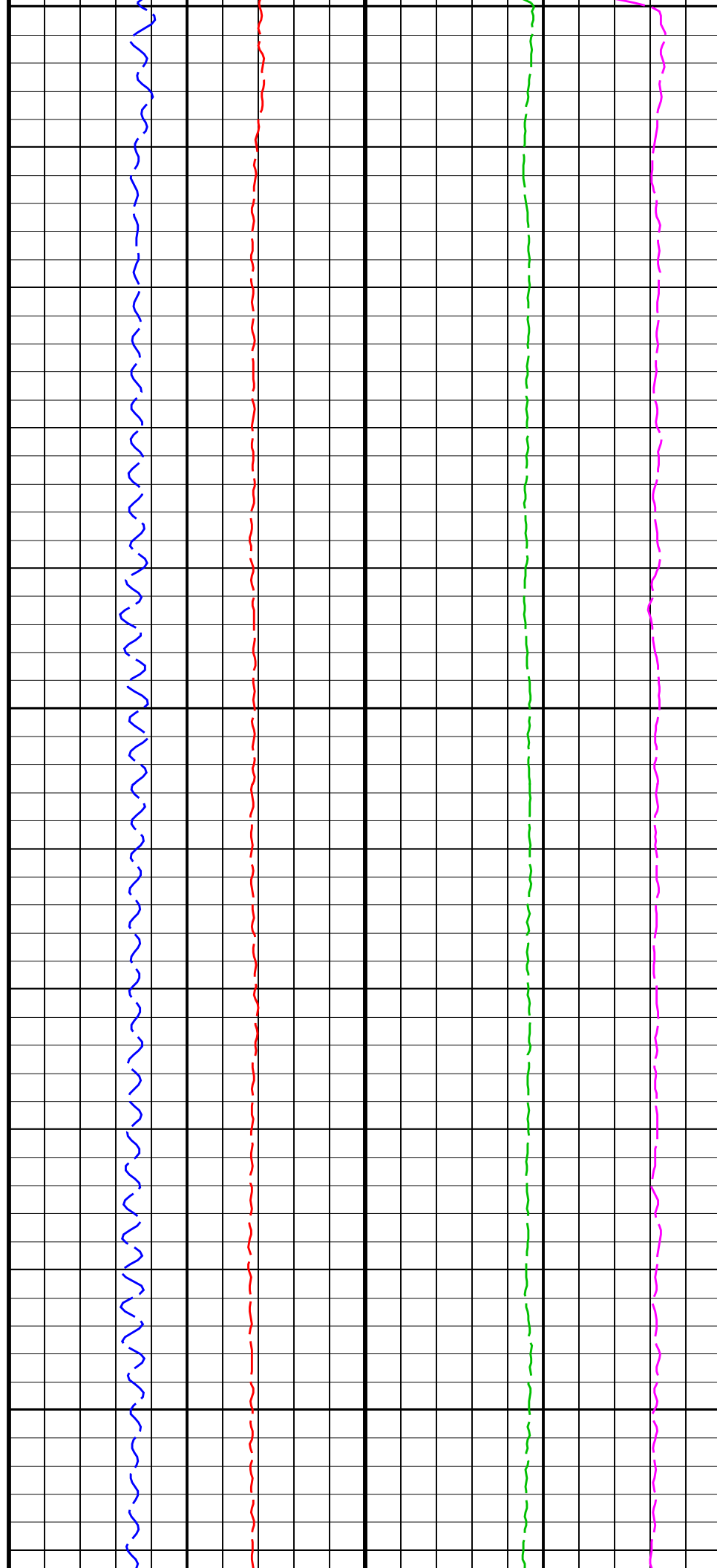


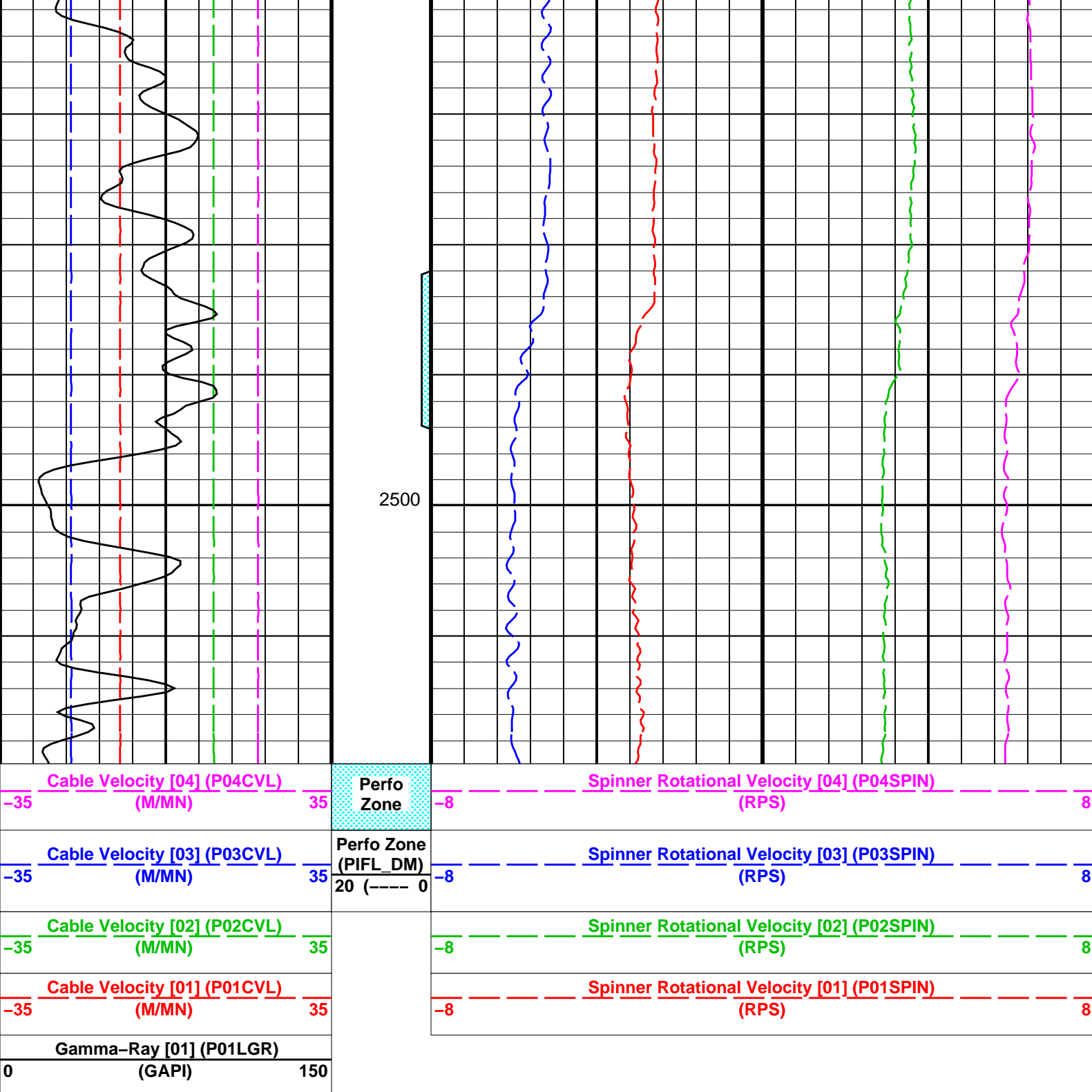


2425

2450

2475





|                             |                         |                       |          |  |  |
|-----------------------------|-------------------------|-----------------------|----------|--|--|
| Format: Spinners            |                         | Vertical Scale: 1:200 |          | Graphics File Created: 26-Jan-2008 06:34 |  |
| OP System Version: 15C0-309 |                         |                       |          |  |  |
| MCM                         |                         |                       |          |  |  |
| PFCS-A                      | 15C0-309                |                       | PILS-A   | 15C0-309                                 |  |
| DEFT-C2                     | 15C0-309                |                       | PGMC-A   | 15C0-309                                 |  |
| PSPT-B                      | 15C0-309                |                       |          |  |  |
| Output DLIS Files           |                         |                       |          |  |  |
| DEFAULT                     | FCS_ILS_DEFT_GMS_026PUP | FN:52                 | PRODUCER | 26-Jan-2008 06:34                        |  |

## Input DLIS Files

DEFAULT

Flip\_FCS\_ILS\_DEFT\_023LUP

PRODUCER

26-Jan-2008 06:15

## Output DLIS Files

DEFAULT

FCS\_ILS\_DEFT\_GMS\_023PUP

FN:49

PRODUCER

26-Jan-2008 06:17

2510.0 M

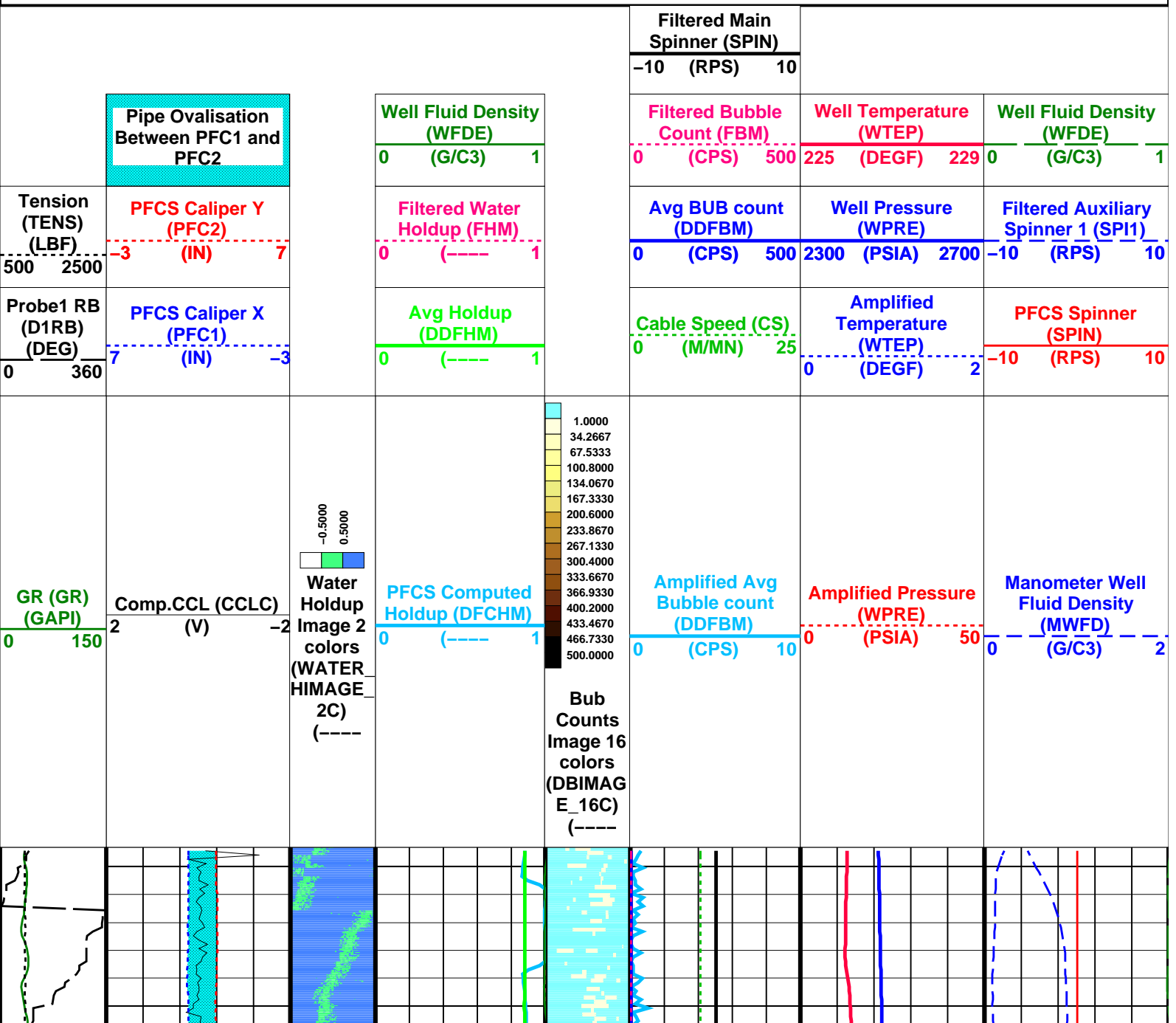
2379.3 M

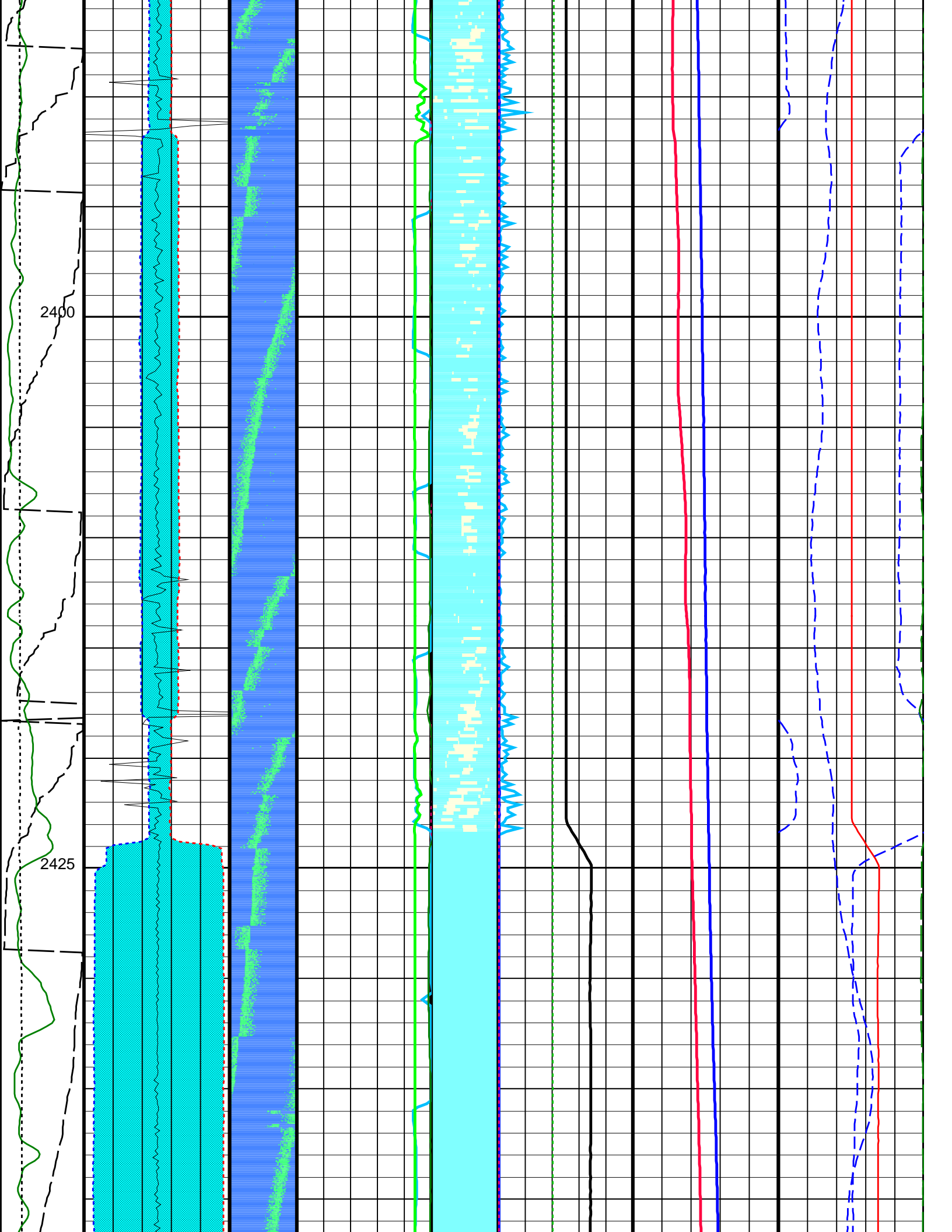
## OP System Version: 15C0-309

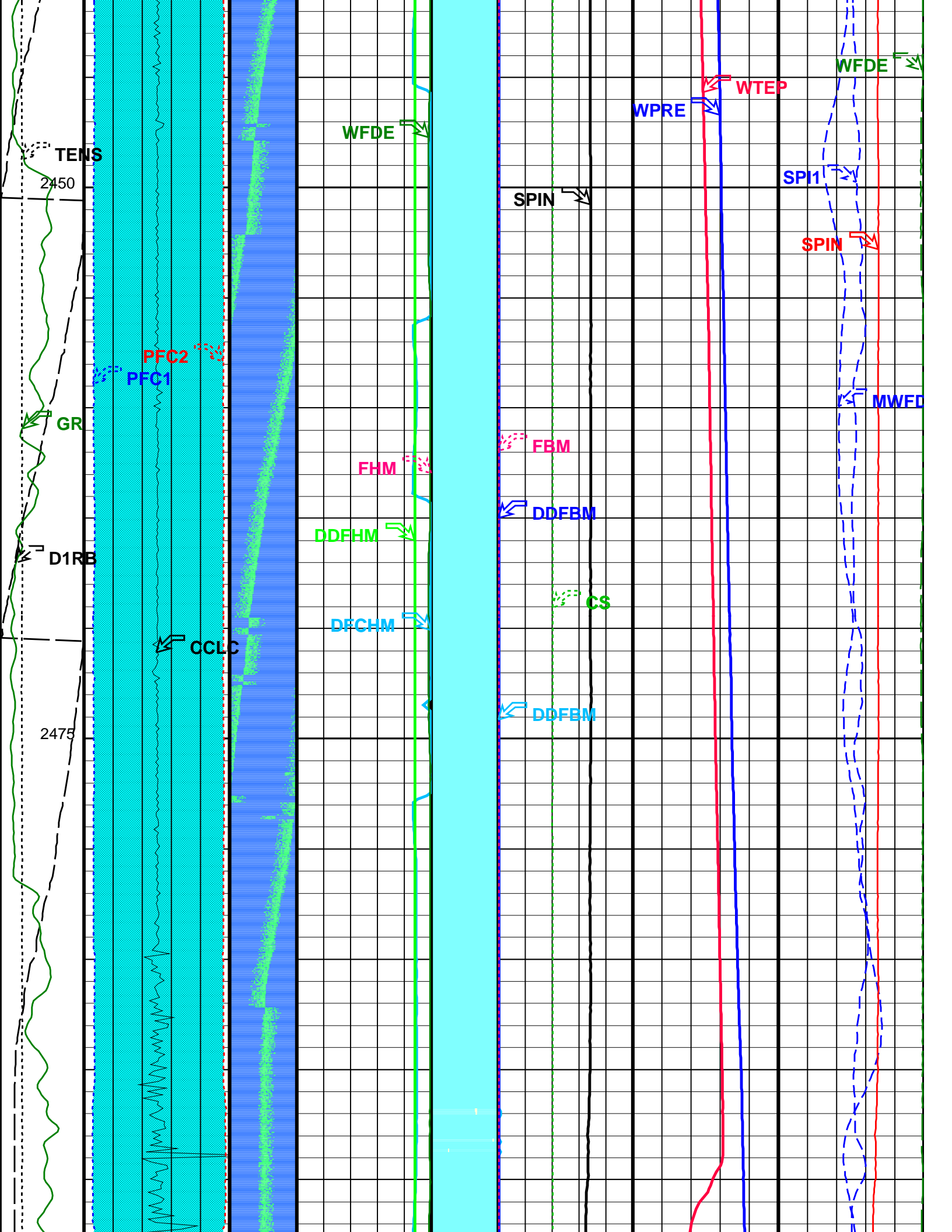
MCM

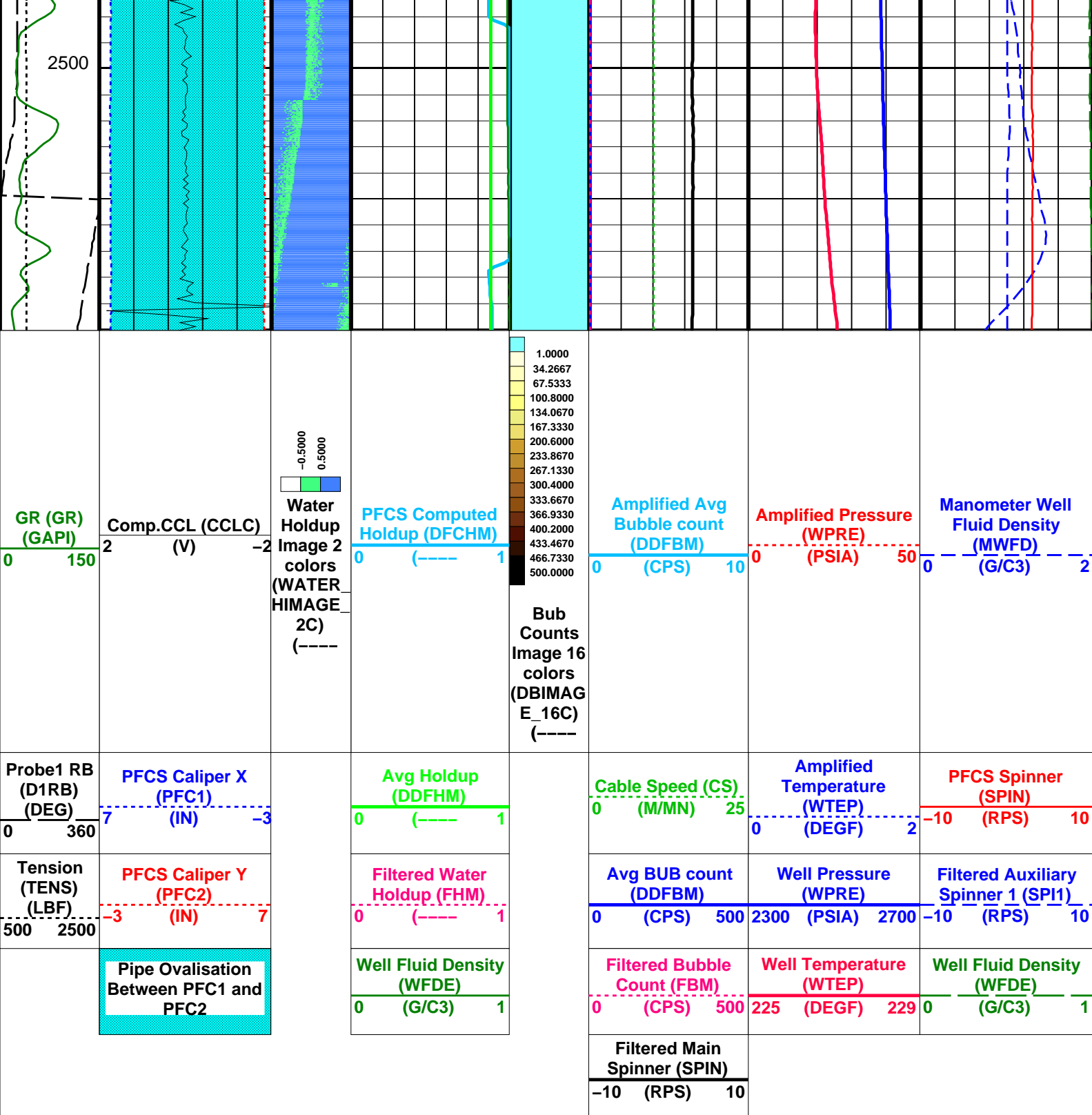
PFCS-A 15C0-309  
DEFT-C2 15C0-309  
PSPT-B 15C0-309

PILS-A 15C0-309  
PGMC-A 15C0-309









Format: PFCS\_Image\_DL Vertical Scale: 1:200 Graphics File Created: 26-Jan-2008 06:17

## OP System Version: 15C0-309

MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

## Input DLIS Files

|         |                          |          |                   |
|---------|--------------------------|----------|-------------------|
| DEFAULT | Flip_FCS_ILS_DEFT_023LUP | PRODUCER | 26-Jan-2008 06:15 |
|---------|--------------------------|----------|-------------------|

## Output DLIS Files

|         |                         |       |          |                   |
|---------|-------------------------|-------|----------|-------------------|
| DEFAULT | FCS_ILS_DEFT_GMS_023PUP | FN:49 | PRODUCER | 26-Jan-2008 06:17 |
|---------|-------------------------|-------|----------|-------------------|

## Input DLIS Files

DEFAULT Flip\_FCS\_ILS\_DEFT\_023LUP PRODUCER 26-Jan-2008 06:15

## Output DLIS Files

DEFAULT FCS\_ILS\_DEFT\_GMS\_023PUP FN:49 PRODUCER 26-Jan-2008 06:17 2510.0 M 2379.3 M

## OP System Version: 15C0-309

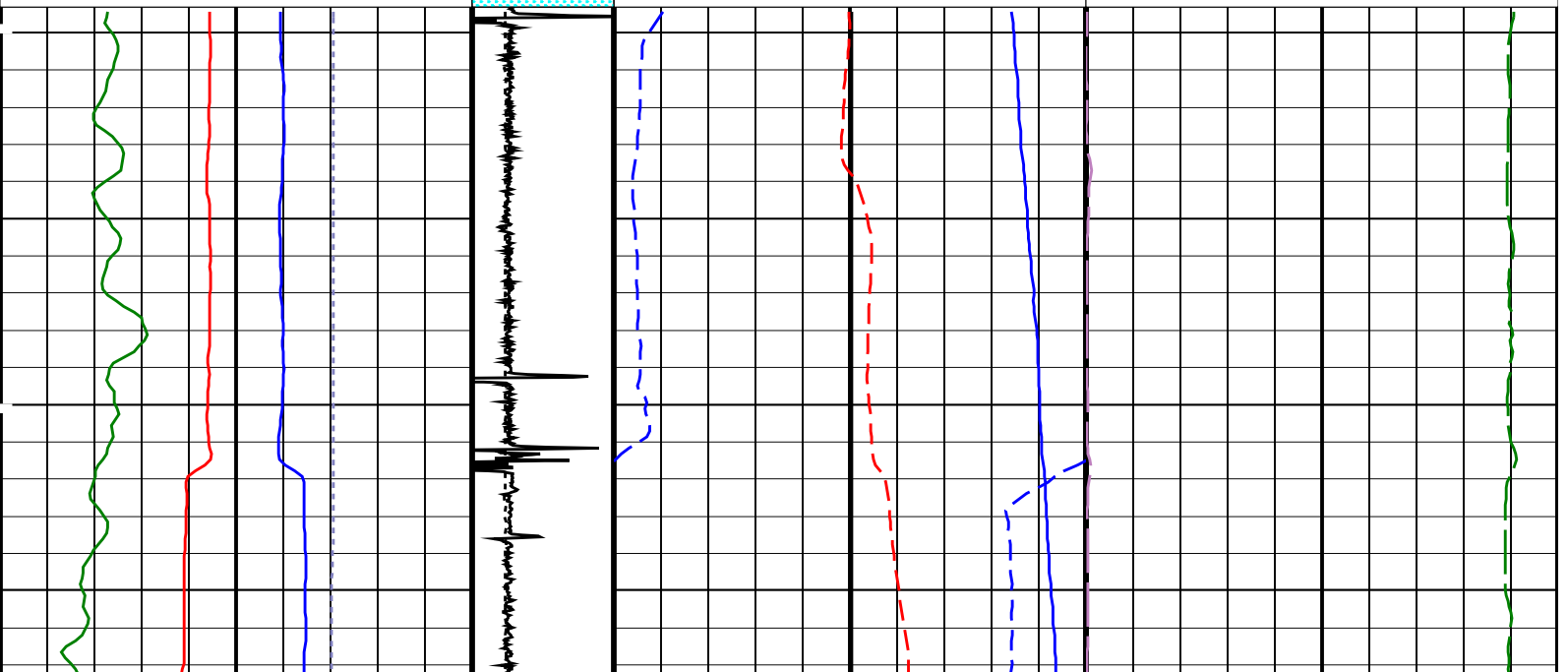
MCM

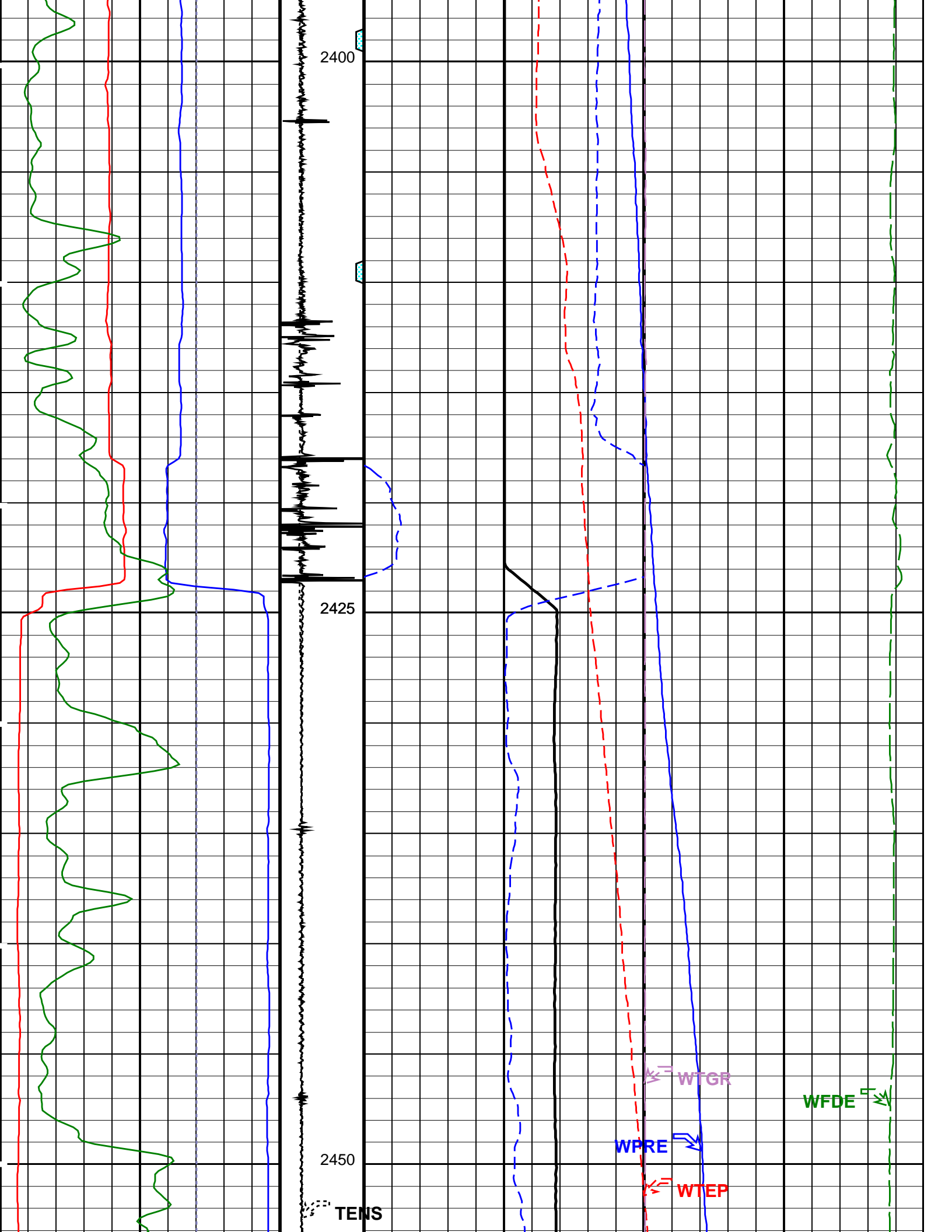
|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

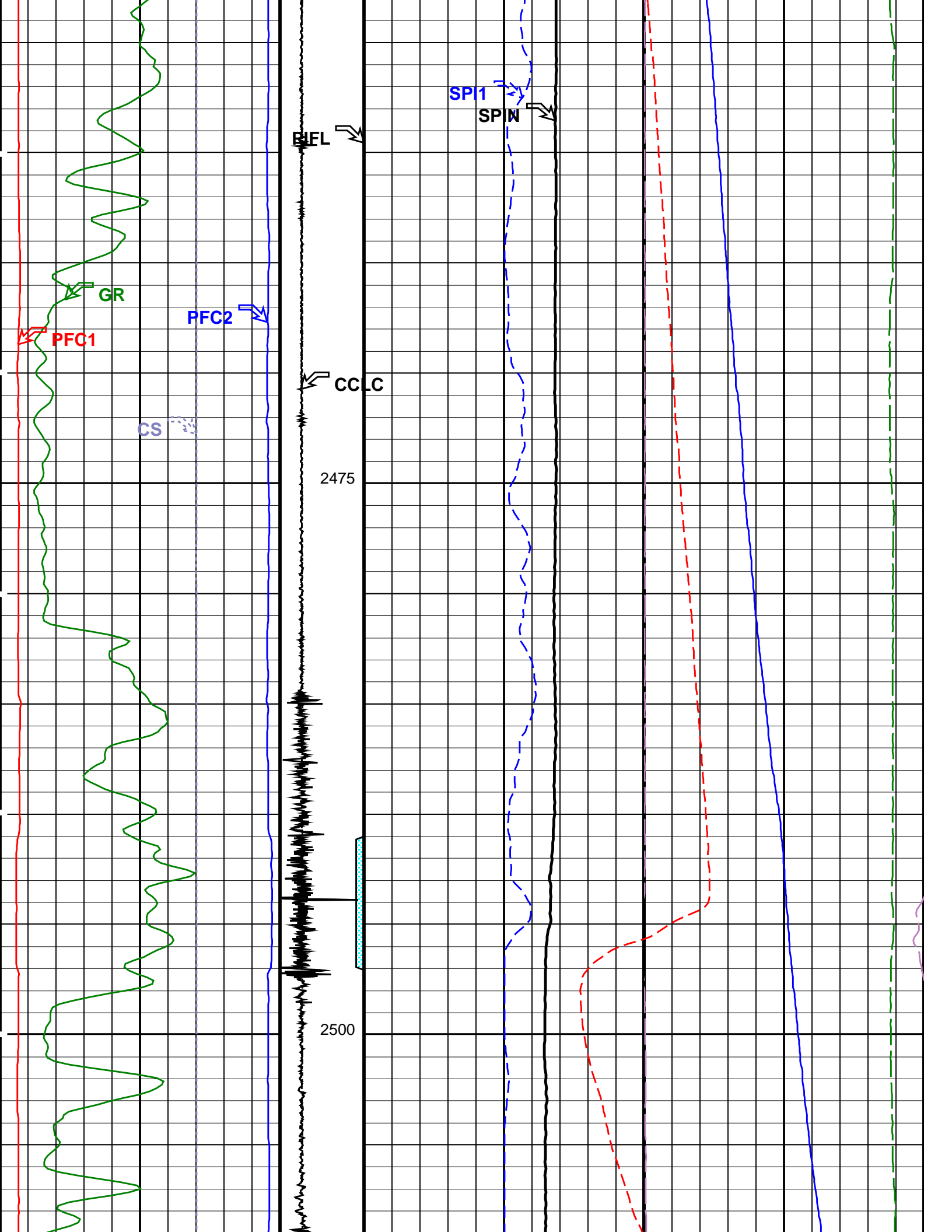
## PIP SUMMARY

Time Mark Every 60 S

|                               |     |  |      |
|-------------------------------|-----|--|------|
| Gamma Ray (GR)<br>(GAPI)      |     | Well Pressure (WPRE)<br>(PSIA)             |      |
| 0                             | 150 | 2300                                       | 2700 |
| PFCS Y Caliper (PFC2)<br>(IN) |     | Well Temperature (WTEP)<br>(DEGF)          |      |
| -3                            | 7   | 225  | 229  |
| PFCS X Caliper (PFC1)<br>(IN) |     | Well Temperature Gradient (WTGR)<br>(DC/M) |      |
| 7                             | -3  | 0  | 10   |
| Cable Speed (CS)<br>(M/MN)    |     | Well Fluid Density (WFDE)<br>(G/C3)        |      |
| -25                           | 25  | 0.1  | 1.1  |







|                               |  |     |  |  |  |    |  |  |     |
|-------------------------------|--|-----|--|--|--|----|--|--|-----|
| Cable Speed (CS)<br>(M/MN)    |  |     | Perfo<br>Zone                          | Filtered Main Spinner (SPIN)<br>(RPS)        |  |    | Well Fluid Density (WFDE)<br>(G/C3)        |  |     |
| -25                           |  | 25  |  | -10  |  | 10 | 0.1  |  | 1.1 |
| PFCS X Caliper (PFC1)<br>(IN) |  |     | Tension<br>(TENS)<br>(LBF)<br>500 2500 | Filtered Auxiliary Spinner 1 (SPI1)<br>(RPS) |  |    | Well Temperature Gradient (WTGR)<br>(DC/M) |  |     |
| 7                             |  | -3  |  | -10  |  | 10 | 0  |  | 10  |
| PFCS Y Caliper (PFC2)<br>(IN) |  |     | Computed<br>CCL<br>(CCLC)<br>1 (V) -3  | Well Temperature (WTEP)<br>(DEGF)            |  |    |  |  |     |
| -3                            |  | 7   |  | 225 ----- 229                                |  |    |  |  |     |
| Gamma Ray (GR)<br>(GAPI)      |  |     |  | Well Pressure (WPRES)<br>(PSIA)              |  |    |  |  |     |
| 0                             |  | 150 |  | 2300 ----- 2700                              |  |    |  |  |     |

PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1 Vertical Scale: 1:200

Graphics File Created: 26-Jan-2008 06:17

OP System Version: 15C0-309  
MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

Parameters

| DLIS Name                                      | Description                                       | Value          |
|--|---|----------------|
| PFCS-A: PSP Flow and caliper Tool              |   |                |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16 DEG         |
| SDCF   | Spinner Depth Constant Filter                     | 6              |
| SPI1   | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |
| PILS-A: PSP In Line Spinner Flowmeter          |   |                |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |
| SDCF   | Spinner Depth Constant Filter                     | 6              |
| SPI1   | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |
| PGMC-A: PSP Gradiomanometer Measurement Module |   |                |
| GCPG   | Gradio Surf.Cal Diff.Pres Gain                    | 1              |
| GCPO   | Gradio Surf.Cal Diff.Pres Offset                  | 0 KPAA         |
| PDSH   | Gradio Correction Density Shift                   | 0 G/C3         |
| PSPT-B: Production Services Logging Platform   |   |                |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16 DEG         |
| System and Miscellaneous                       |   |                |
| DO   | Depth Offset for Playback                         | -0.7 M         |
| PP   | Playback Processing                               | RECOMPUTE      |

Input DLIS Files

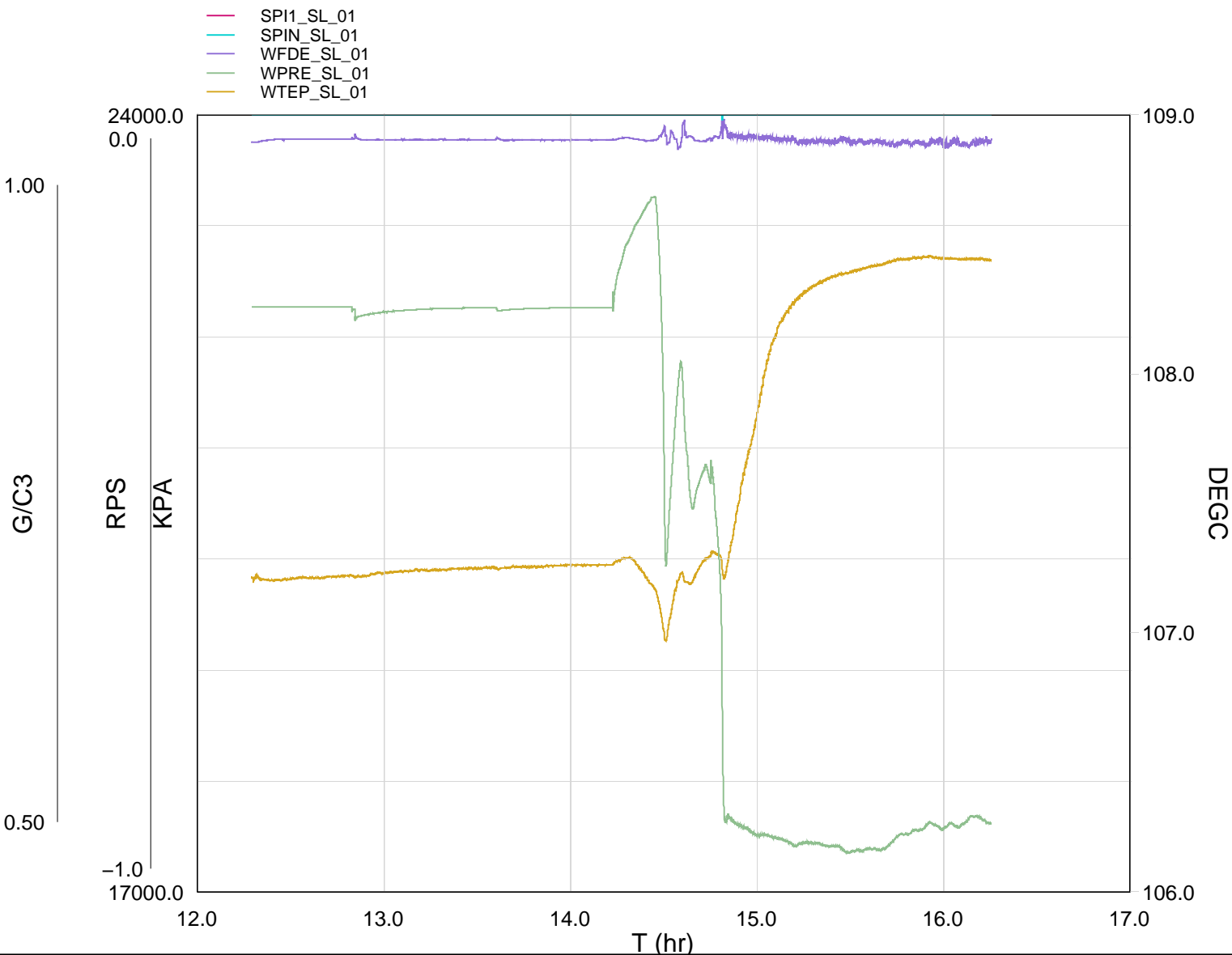
|         |                          |          |                   |
|---------|--------------------------|----------|-------------------|
| DEFAULT | Flip_FCS_ILS_DEFT_023LUP | PRODUCER | 26-Jan-2008 06:15 |
|---------|--------------------------|----------|-------------------|

Output DLIS Files

|         |                         |       |          |                   |
|---------|-------------------------|-------|----------|-------------------|
| DEFAULT | FCS_ILS_DEFT_GMS_023PUP | FN:49 | PRODUCER | 26-Jan-2008 06:17 |
|---------|-------------------------|-------|----------|-------------------|

Schlumberger

Station @ 2470M  
Well Flowing (F1)



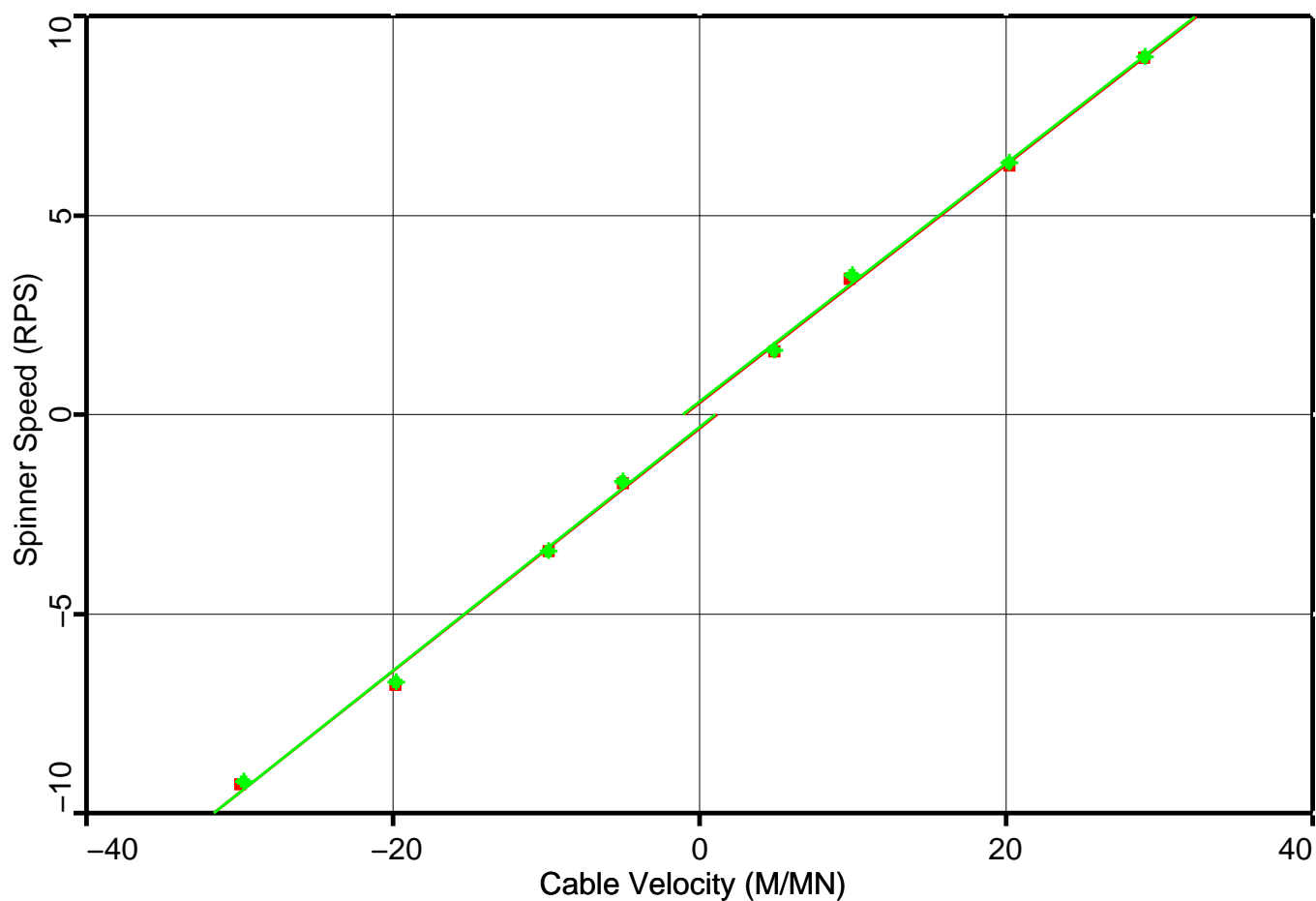
**Schlumberger**

## PFCS Spinner Calibration Shut-In

MAXIS Field Log

### Production Logging Quicklook Spinner Calibration

|   | Zone Depth<br>(M)        | Fluid Vel.<br>(M/MN) | Positive Spinner |                     |         | Negative Spinner |                     |         |
|---|--------------------------|----------------------|------------------|---------------------|---------|------------------|---------------------|---------|
|   |                          |                      | Slope<br>(RSMM)  | Intercept<br>(M/MN) | Correl. | Slope<br>(RSMM)  | Intercept<br>(M/MN) | Correl. |
| ■ | Zone 1 2480.0 – 2440.0 : | 0                    | 0.2995           | –0.9                | 0.999   | 0.3045           | 1.2                 | 0.997   |
| ◆ | Zone 2 2505.0 – 2500.0 : | 0                    | 0.2993           | –1.1                | 0.999   | 0.3054           | 1.1                 | 0.997   |



**Schlumberger**

## Merged Sensors Shut-In

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-16a

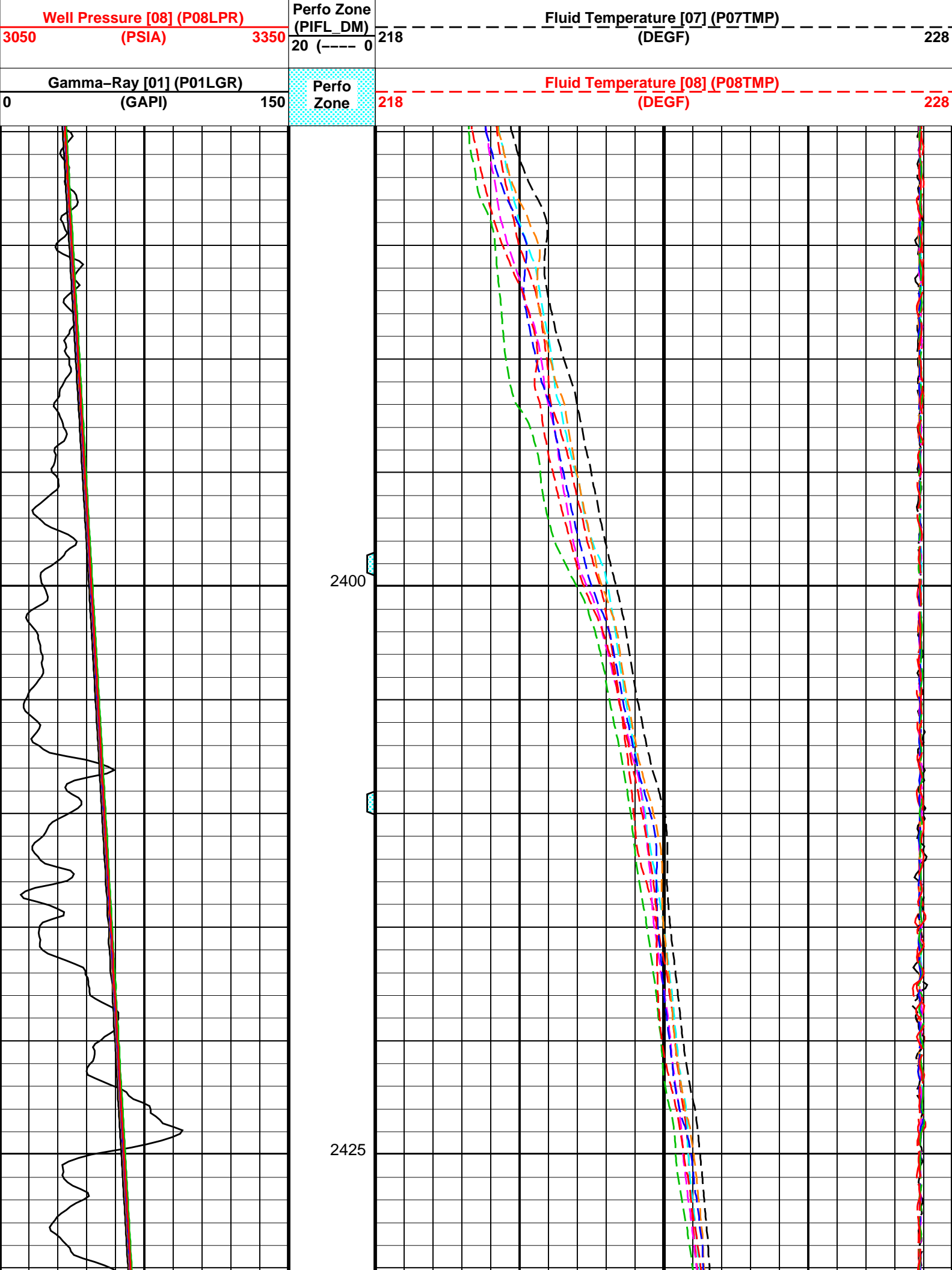
### PLQL Passes Summary

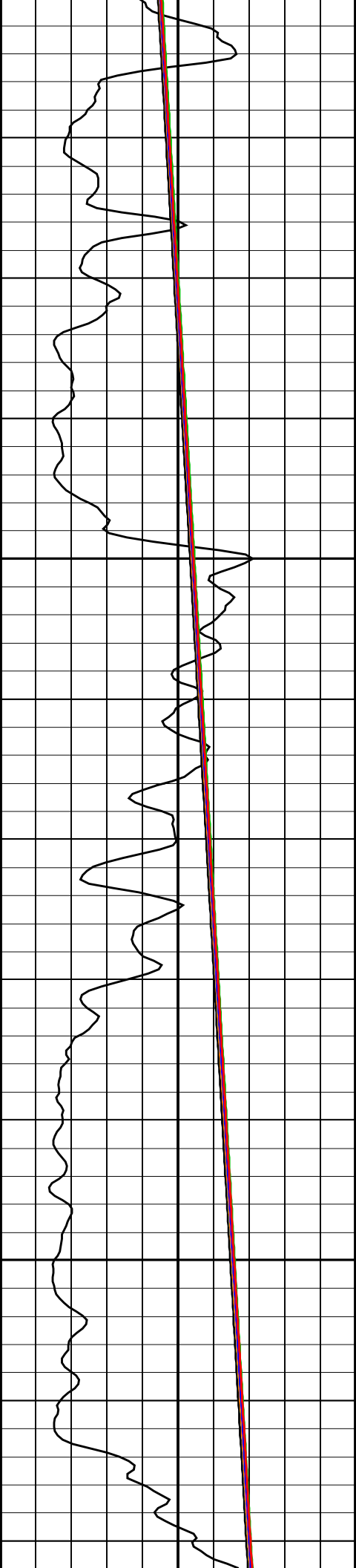
Pass # 1: Src: PLQL\_CS, Log: UP , Avg.CS: 19 M/MN  
 Pass # 2: Src: PLQL\_CS, Log: DOWN , Avg.CS: 20 M/MN  
 Pass # 3: Src: PLQL\_CS, Log: UP , Avg.CS: 9 M/MN  
 Pass # 4: Src: PLQL\_CS, Log: DOWN , Avg.CS: 9 M/MN  
 Pass # 5: Src: PLQL\_CS, Log: UP , Avg.CS: 5 M/MN  
 Pass # 6: Src: PLQL\_CS, Log: DOWN , Avg.CS: 4 M/MN  
 Pass # 7: Src: PLQL\_CS, Log: UP , Avg.CS: 29 M/MN  
 Pass # 8: Src: PLQL\_CS, Log: DOWN , Avg.CS: 28 M/MN

|                         |  |
|-------------------------|--|
| PLQL Data Manager Files |  |
| Pass # 1                |  |
| Pass # 2                |  |
| Pass # 3                |  |
| Pass # 4                |  |
| Pass # 5                |  |
| Pass # 6                |  |
| Pass # 7                |  |
| Pass # 8                |  |

| Output DLIS Files           |                         |       |          |                   |          |          |
|-----------------------------|-------------------------|-------|----------|-------------------|----------|----------|
| DEFAULT                     | FCS_ILS_DEFT_GMS_023PUP | FN:46 | PRODUCER | 26-Jan-2008 05:46 | 2509.9 M | 2379.7 M |
| OP System Version: 15C0-309 |                         |       |          |                   |          |          |
| MCM                         |                         |       |          |                   |          |          |
| PFCS-A                      | 15C0-309                |       | PILS-A   | 15C0-309          |          |          |
| DEFT-C2                     | 15C0-309                |       | PGMC-A   | 15C0-309          |          |          |
| PSPT-B                      | 15C0-309                |       |          |                   |          |          |

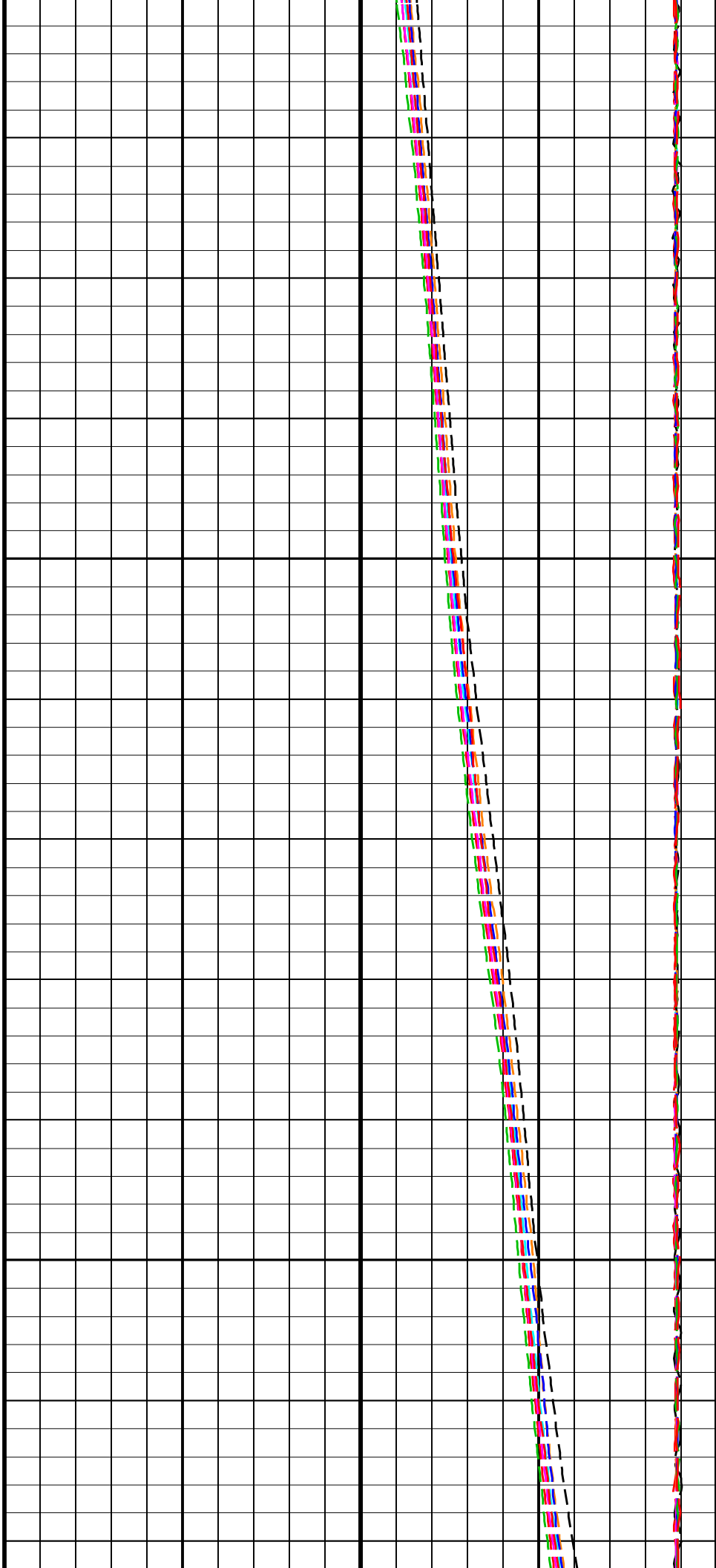
|   |  |     |   |     |
|---|--|-----|---|-----|
|   |  | 0.1 | Fluid Density [01] (P01FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [02] (P02FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [03] (P03FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [04] (P04FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [05] (P05FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [06] (P06FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [07] (P07FDS)<br>(G/C3)     | 1.1 |
|   |  | 0.1 | Fluid Density [08] (P08FDS)<br>(G/C3)     | 1.1 |
| Well Pressure [01] (P01LPR)<br>3050 (PSIA) 3350 |  |     |   |     |
| Well Pressure [02] (P02LPR)<br>3050 (PSIA) 3350 |  | 218 | Fluid Temperature [01] (P01TMP)<br>(DEGF) | 228 |
| Well Pressure [03] (P03LPR)<br>3050 (PSIA) 3350 |  | 218 | Fluid Temperature [02] (P02TMP)<br>(DEGF) | 228 |
| Well Pressure [04] (P04LPR)<br>3050 (PSIA) 3350 |  | 218 | Fluid Temperature [03] (P03TMP)<br>(DEGF) | 228 |
| Well Pressure [05] (P05LPR)<br>3050 (PSIA) 3350 |  | 218 | Fluid Temperature [04] (P04TMP)<br>(DEGF) | 228 |
| Well Pressure [06] (P06LPR)<br>3050 (PSIA) 3350 |  | 218 | Fluid Temperature [05] (P05TMP)<br>(DEGF) | 228 |
| Well Pressure [07] (P07LPR)<br>3050 (PSIA) 3350 |  | 218 | Fluid Temperature [06] (P06TMP)<br>(DEGF) | 228 |

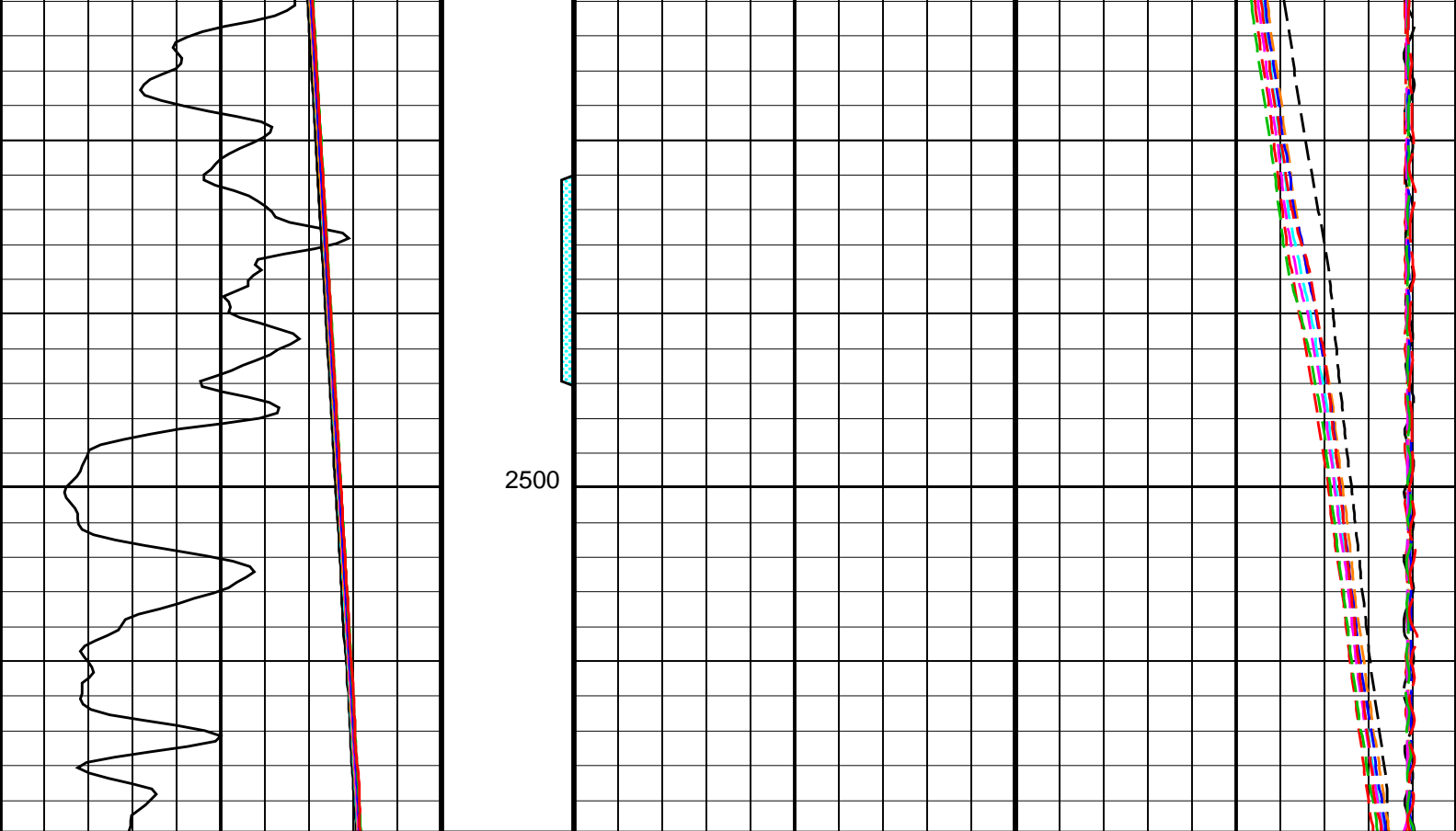




2450

2475





|      |                                    |      |                      |     |  |     |
|------|------------------------------------|------|----------------------|-----|--|-----|
| 0    | Gamma-Ray [01] (P01LGR) (GAPI)     | 150  | Perfo Zone           | 218 | Fluid Temperature [08] (P08TMP) (DEGF) | 228 |
| 3050 | Well Pressure [08] (P08LPR) (PSIA) | 3350 | Perfo Zone (PIFL_DM) | 218 | Fluid Temperature [07] (P07TMP) (DEGF) | 228 |
| 3050 | Well Pressure [07] (P07LPR) (PSIA) | 3350 | 20 (---- 0           | 218 | Fluid Temperature [06] (P06TMP) (DEGF) | 228 |
| 3050 | Well Pressure [06] (P06LPR) (PSIA) | 3350 |                      | 218 | Fluid Temperature [05] (P05TMP) (DEGF) | 228 |
| 3050 | Well Pressure [05] (P05LPR) (PSIA) | 3350 |                      | 218 | Fluid Temperature [04] (P04TMP) (DEGF) | 228 |
| 3050 | Well Pressure [04] (P04LPR) (PSIA) | 3350 |                      | 218 | Fluid Temperature [03] (P03TMP) (DEGF) | 228 |
| 3050 | Well Pressure [03] (P03LPR) (PSIA) | 3350 |                      | 218 | Fluid Temperature [02] (P02TMP) (DEGF) | 228 |
| 3050 | Well Pressure [02] (P02LPR) (PSIA) | 3350 |                      | 218 | Fluid Temperature [01] (P01TMP) (DEGF) | 228 |
| 3050 | Well Pressure [01] (P01LPR) (PSIA) | 3350 |                      | 0.1 | Fluid Density [08] (P08FDS) (G/C3)     | 1.1 |
|      |                                    |      |                      | 0.1 | Fluid Density [07] (P07FDS) (G/C3)     | 1.1 |
|      |                                    |      |                      | 0.1 | Fluid Density [06] (P06FDS) (G/C3)     | 1.1 |
|      |                                    |      |                      | 0.1 | Fluid Density [05] (P05FDS) (G/C3)     | 1.1 |
|      |                                    |      |                      | 0.1 | Fluid Density [04] (P04FDS) (G/C3)     | 1.1 |
|      |                                    |      |                      | 0.1 | Fluid Density [03] (P03FDS) (G/C3)     | 1.1 |



Pass # 3: , Log: UP , Avg.CS: 9 M/MN  
Pass # 4: Log: DOWN , Avg.CS: 9 M/MN  
Pass # 5: Log: UP , Avg.CS: 5 M/MN  
Pass # 6: Log: DOWN , Avg.CS: 4 M/MN  
Pass # 7: Log: UP , Avg.CS: 29 M/MN  
Pass # 8: Log: DOWN , Avg.CS: 28 M/MN

Company: Esso Australia Pty Ltd.

Well: A-16a

## PLQL Data Manager Files

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

Company: Esso Australia Pty Ltd.

Well: A-16a

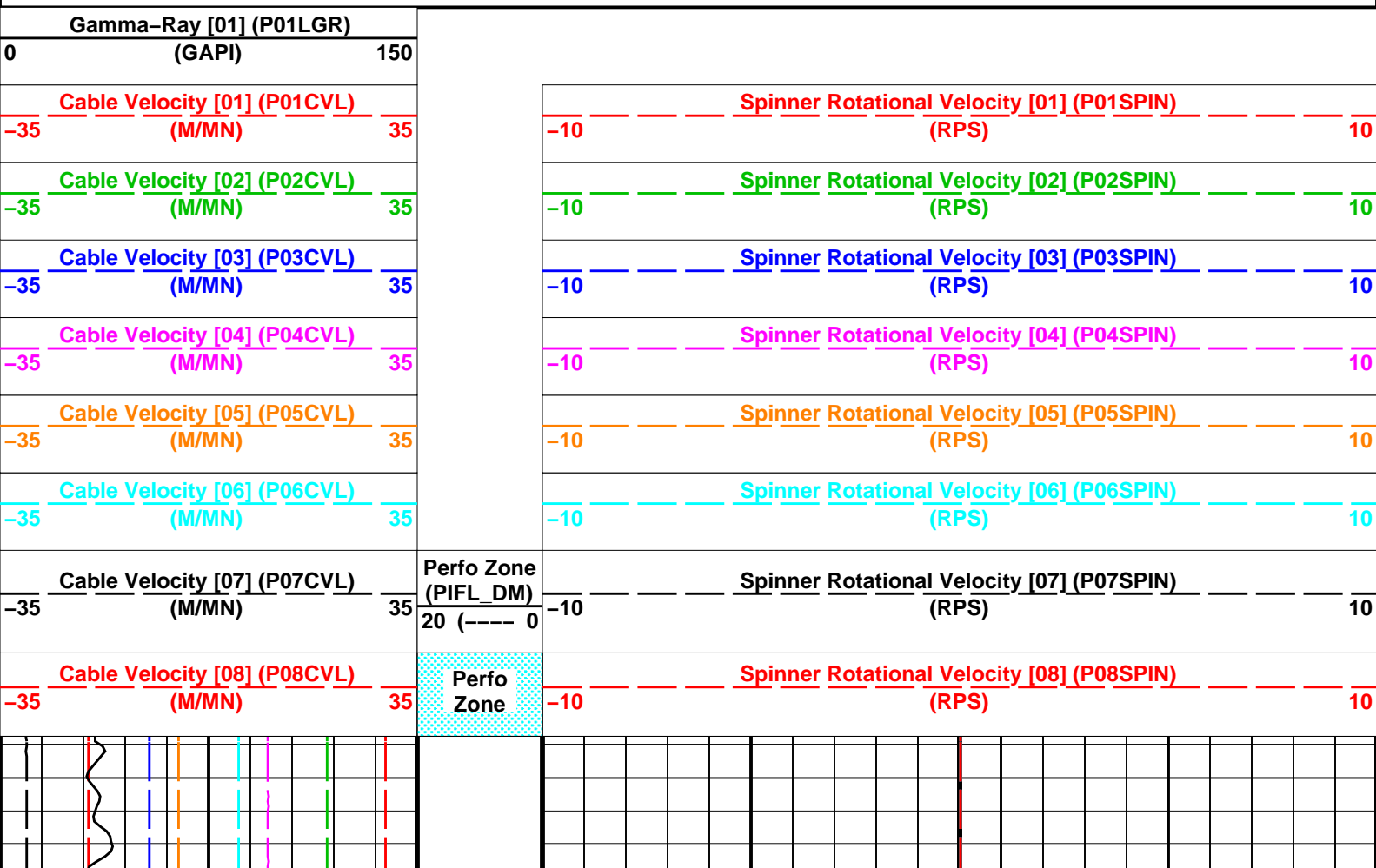
## Output DLIS Files

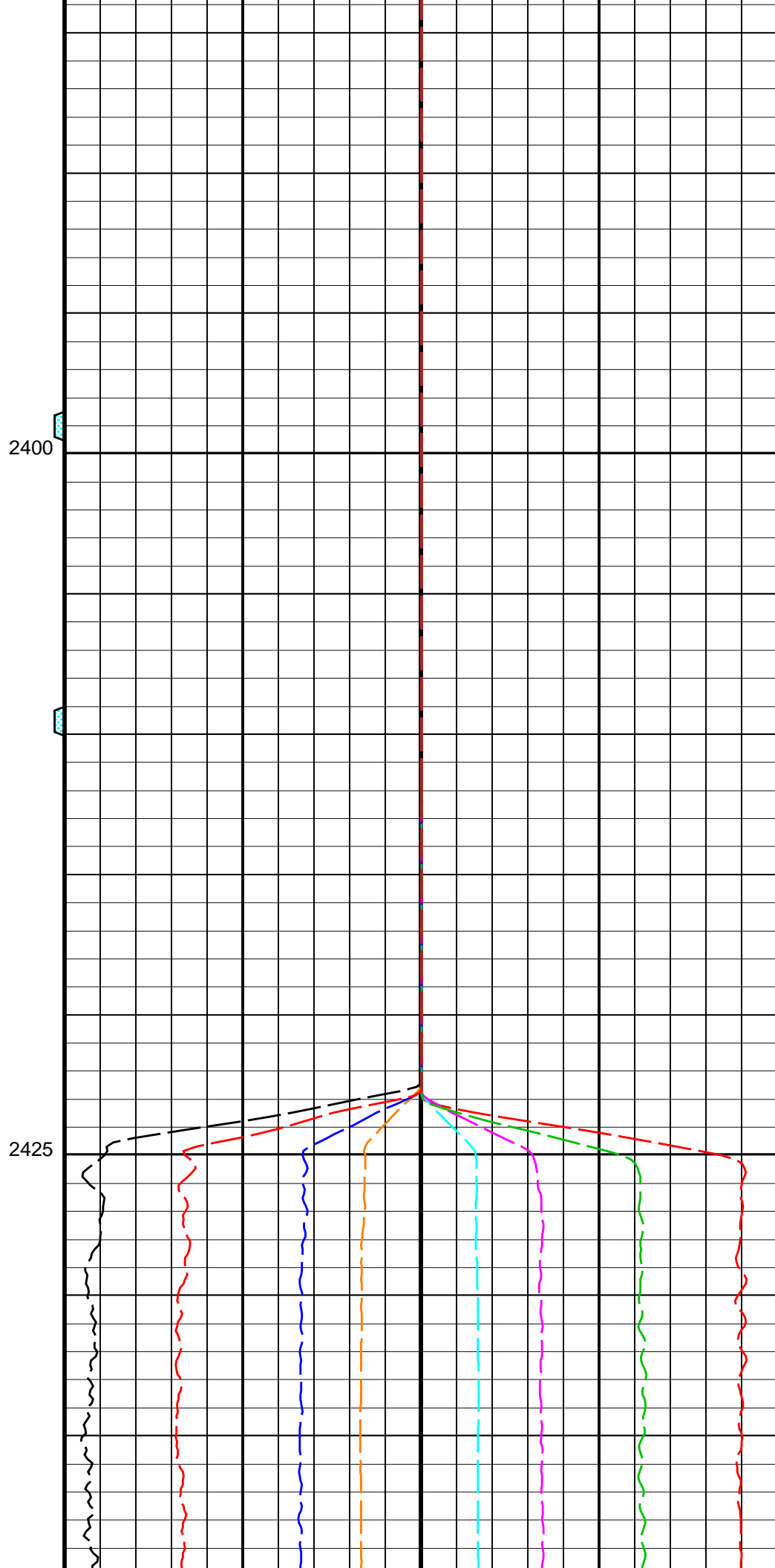
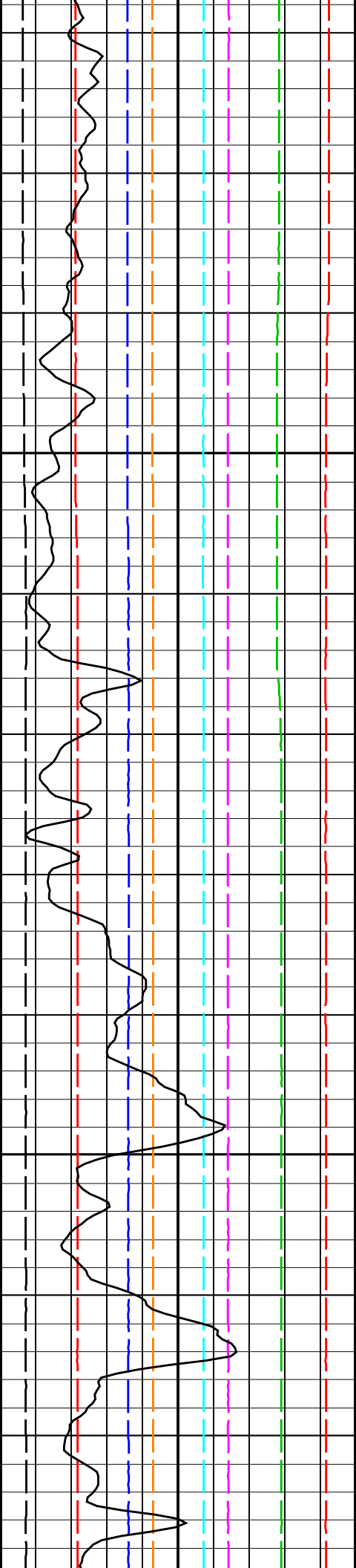
DEFAULT FCS\_ILS\_DEFT\_GMS\_022PUP FN:45 PRODUCER 26-Jan-2008 05:36 2509.9 M 2379.7 M

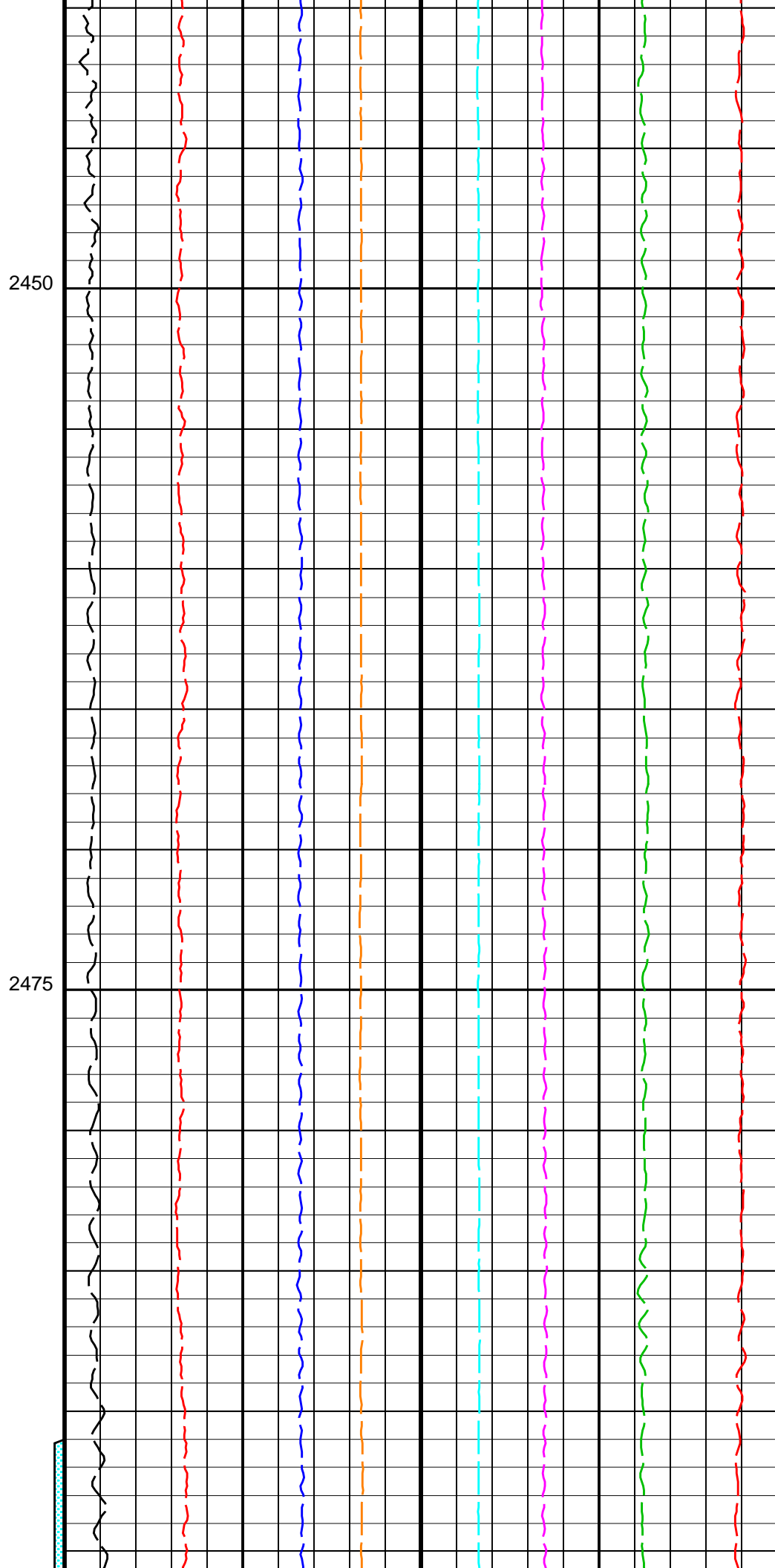
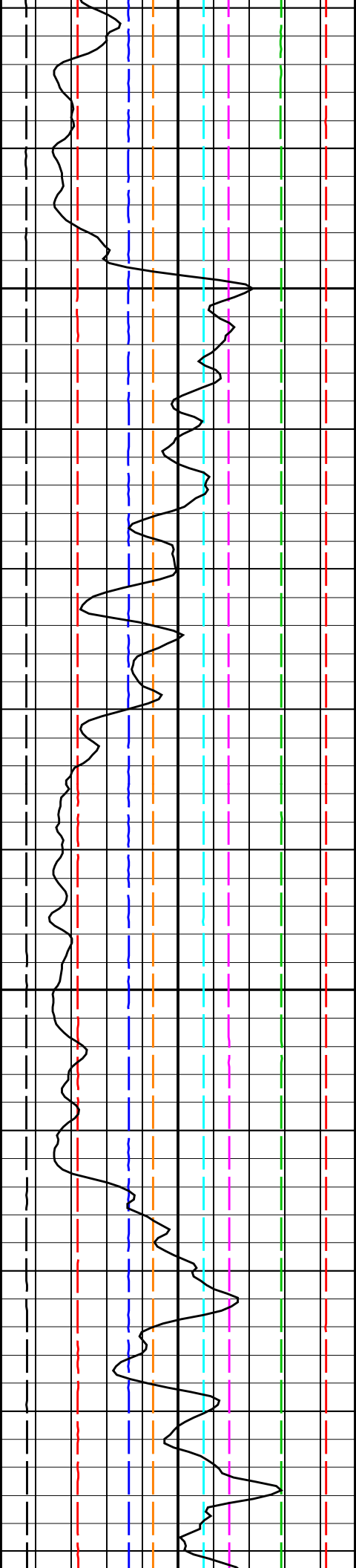
## OP System Version: 15C0-309

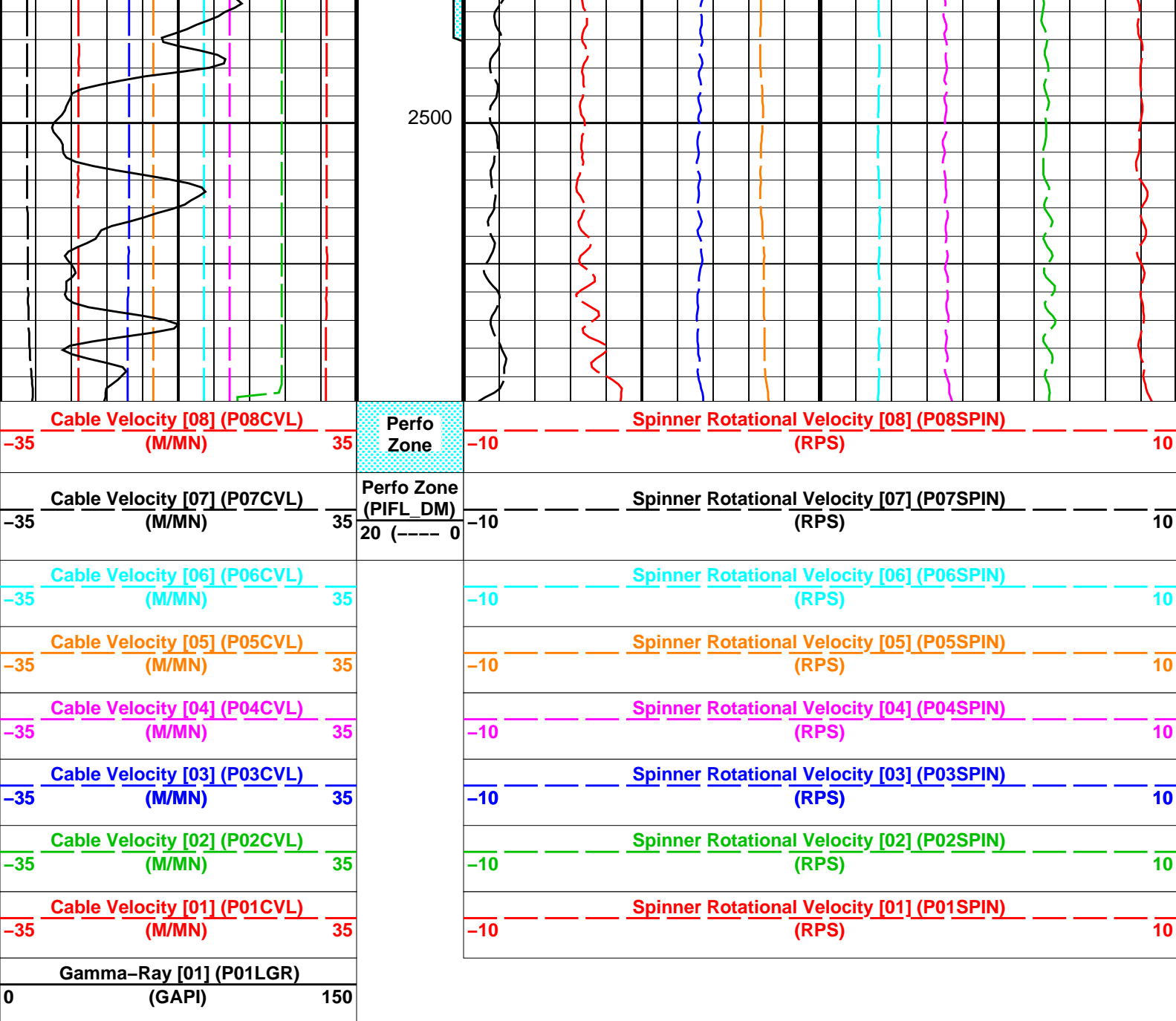
MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |









| Parameters               |   |           |
|--------------------------|---|-----------|
| DLIS Name                | Description   | Value     |
| CSID                     | PFCS-A: PSP Flow and caliper Tool Casing Size I.D.              | 6.276 IN  |
| CSID                     | DEFT-C2: DEFT_C Tool Casing Size I.D.                           | 6.276 IN  |
| CSID                     | PGMC-A: PSP Gradiomanometer Measurement Module Casing Size I.D. | 6.276 IN  |
| CSID                     | PSPT-B: Production Services Logging Platform Casing Size I.D.   | 6.276 IN  |
| CSID                     | BORDYN: BorDyn (Well Test Validation) Casing Size I.D.          | 6.276 IN  |
| CSID                     | PLQL: Production Logging Quick Look Casing Size I.D.            | 6.276 IN  |
| CCLS                     | CCL Selector  | CCLD      |
| FCHD                     | Cased Hole Diameter Selector                                    | PFC1      |
| PCVS                     | CVEL Selector   | CVEL      |
| PGRS                     | GR Selector   | GR        |
| PGS                      | Pressure Gauge Selector   | WPRE      |
| PWHS                     | PLQL Water HoldUp Selector                                      | NONE      |
| RHOS                     | Fluid Density Selector  | WFDE      |
| SPIS                     | Spinner Selector  | SPIN      |
| TMPS                     | Temperature Selector  | WTEP      |
| System and Miscellaneous |   |           |
| DO                       | Depth Offset for Playback                                       | -0.8 M    |
| PP                       | Playback Processing   | RECOMPUTE |

|                             |          |        |          |
|-----------------------------|----------|--------|----------|
| OP System Version: 15C0-309 |          |        |          |
| MCM                         |          |        |          |
| PFCS-A                      | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2                     | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B                      | 15C0-309 |        |          |

|                   |                         |       |                            |
|-------------------|-------------------------|-------|----------------------------|
| Output DLIS Files |                         |       |                            |
| DEFAULT           | FCS_ILS_DEFT_GMS_022PUP | FN:45 | PRODUCER 26-Jan-2008 05:36 |

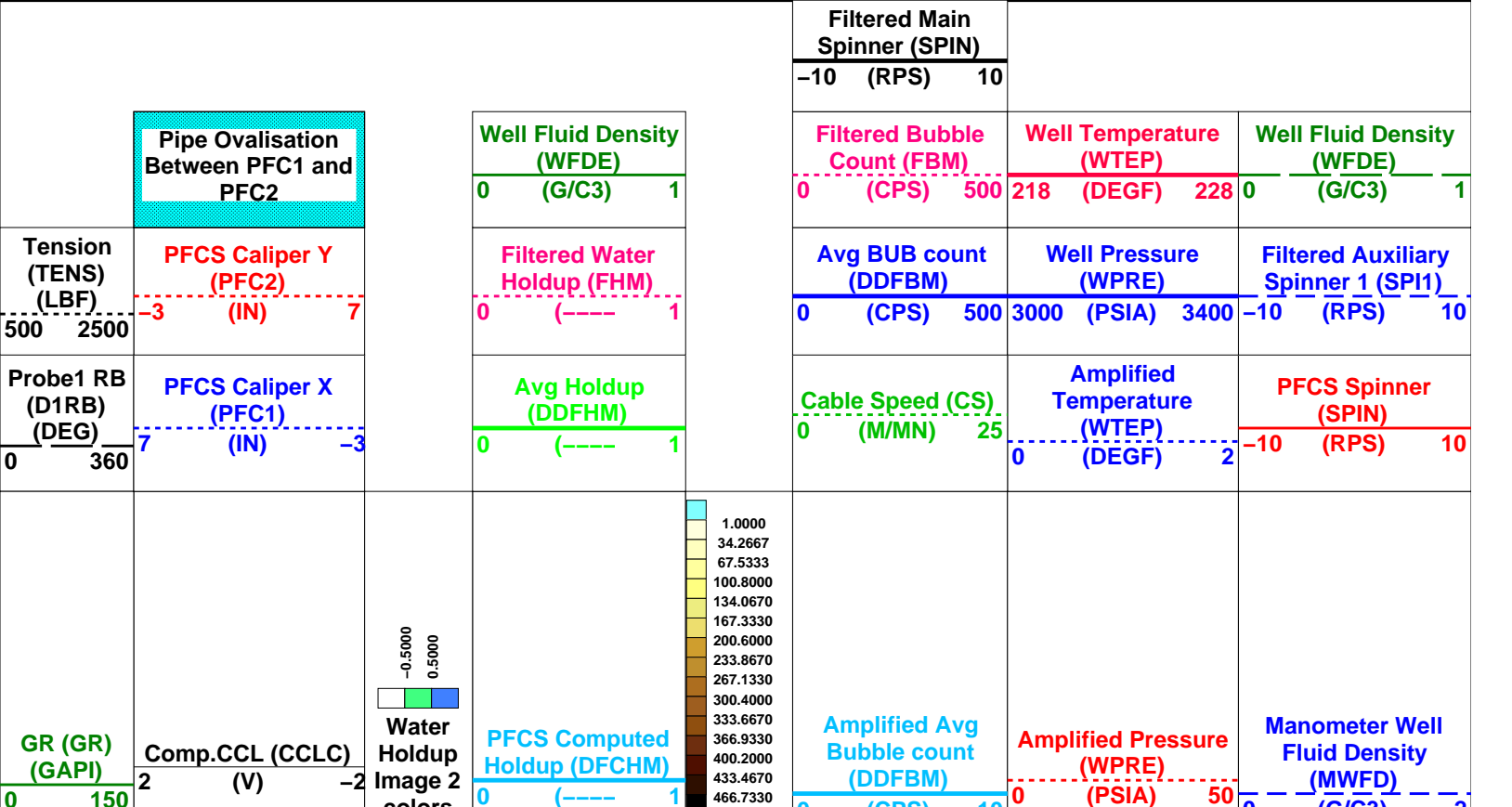


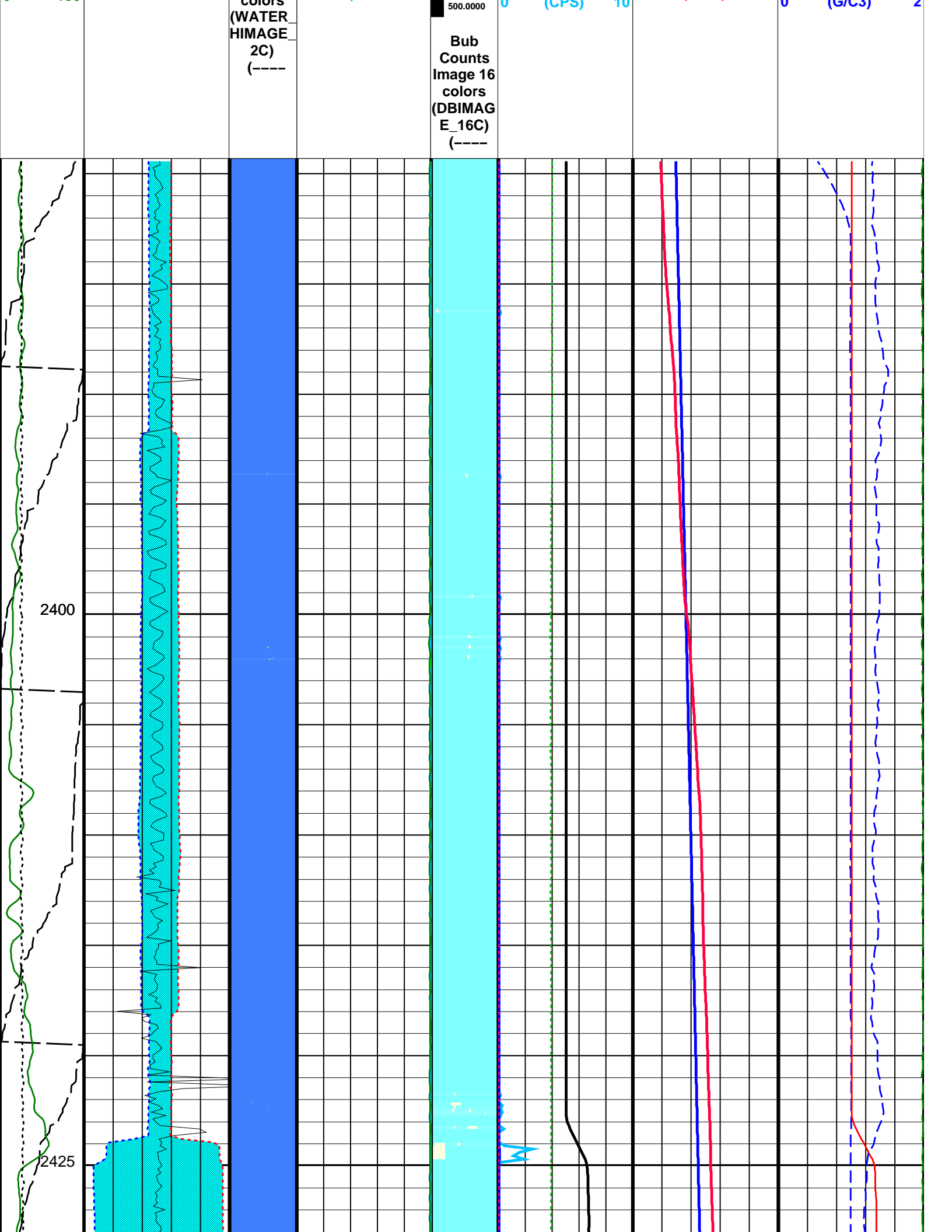
Down Image @ 10 M/Min  
Shut-In

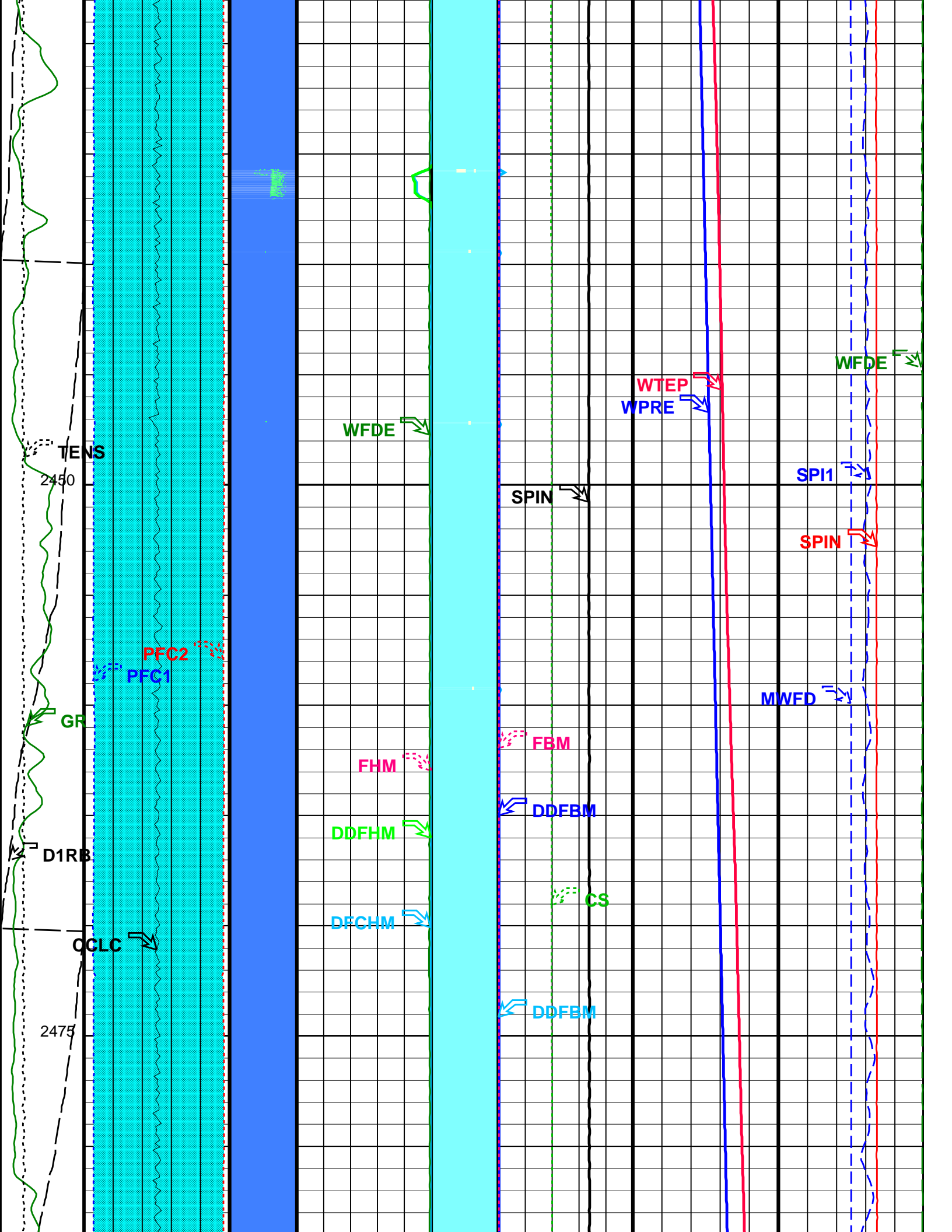


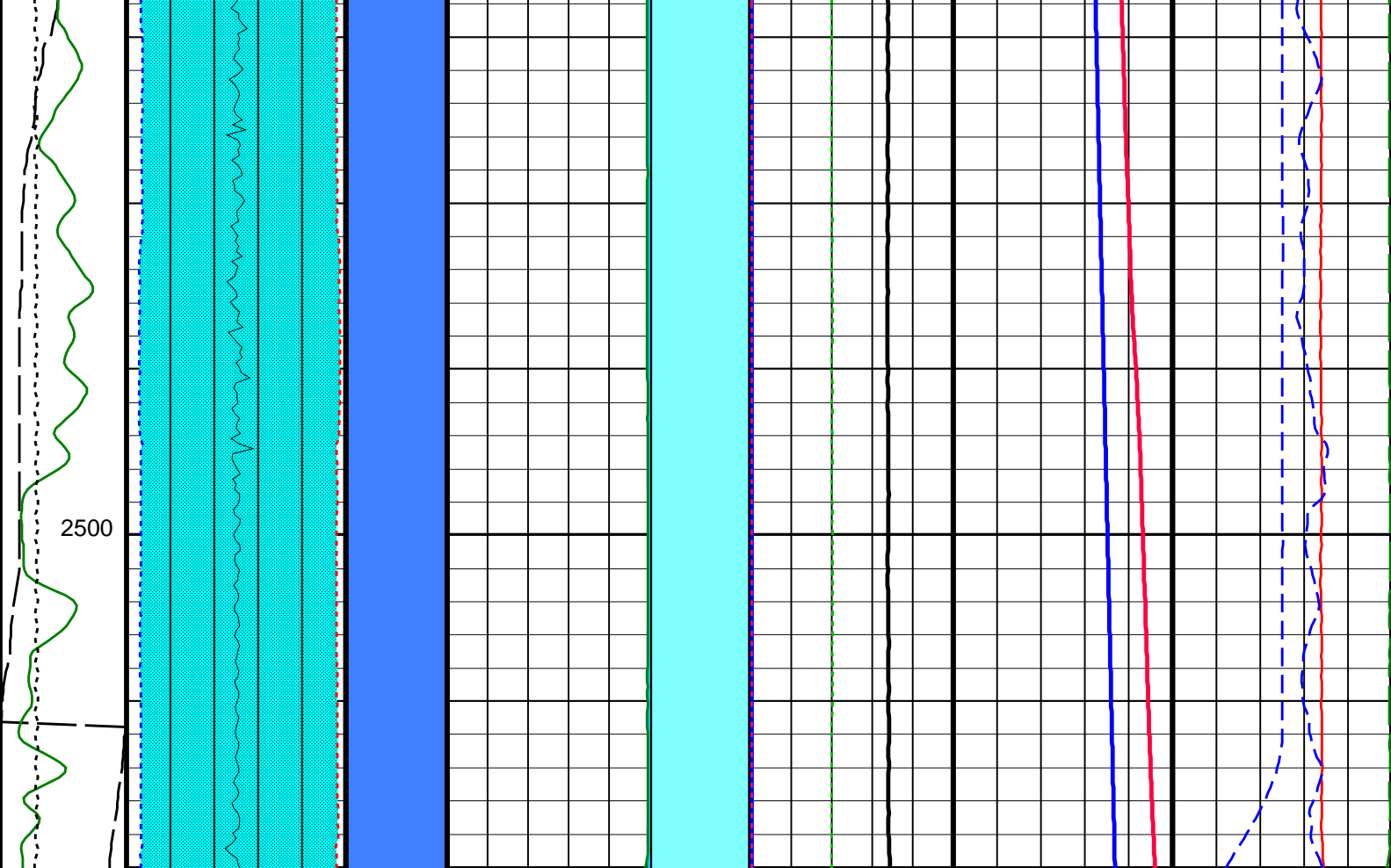
|                   |                          |          |  |
|-------------------|--------------------------|----------|--|
| Input DLIS Files  |                          |          |  |
| DEFAULT           | Flip_FCS_ILS_DEFT_014LUP | PRODUCER | 26-Jan-2008 04:58 2523.0 M 2362.4 M          |
| Output DLIS Files |                          |          |  |
| DEFAULT           | FCS_ILS_DEFT_GMS_014PUP  | FN:34    | PRODUCER 26-Jan-2008 04:59 2510.0 M 2379.3 M |

|                             |          |        |          |
|-----------------------------|----------|--------|----------|
| OP System Version: 15C0-309 |          |        |          |
| MCM                         |          |        |          |
| PFCS-A                      | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2                     | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B                      | 15C0-309 |        |          |









|  |  |   |   |  |   |   |
|--|--|---|---|--|---|---|
| <div>GR (GR)<br/>(GAPI)</div> <div>0150</div>              | <div>Comp.CCL (CCLC)<br/>(V)</div> <div>2-2</div>                      | <div><div>-0.50000.5000</div><div>Water Holdup<br/>Image 2<br/>colors<br/>(WATER<br/>HIMAGE<br/>2C)<br/>(----</div></div> | <div><div>PFCs Computed<br/>Holdup (DFCHM)</div><div>01<br/>(----</div></div> <div><div>1.0000<br/>34.2667<br/>67.5333<br/>100.8000<br/>134.0670<br/>167.3330<br/>200.6000<br/>233.8670<br/>267.1330<br/>300.4000<br/>333.6670<br/>366.9330<br/>400.2000<br/>433.4670<br/>466.7330<br/>500.0000</div><div>Bub<br/>Counts<br/>Image 16<br/>colors<br/>(DBIMAG<br/>E_16C)<br/>(----</div></div> | <div><div>Amplified Avg<br/>Bubble count<br/>(DDFBM)</div><div>010<br/>(CPS)</div></div> | <div><div>Amplified Pressure<br/>(WPRE)<br/>(PSIA)</div><div>050</div></div>            | <div><div>Manometer Well<br/>Fluid Density<br/>(MWFD)<br/>(G/C3)</div><div>02</div></div> |
| <div>Probe1 RB<br/>(D1RB)<br/>(DEG)</div> <div>0360</div>  | <div><div>PFCs Caliper X<br/>(PFC1)<br/>(IN)</div><div>7-3</div></div> | <div><div>Avg Holdup<br/>(DDFHM)</div><div>01<br/>(----</div></div>   | <div><div>Cable Speed (CS)<br/>(M/MN)</div><div>025</div></div>   | <div><div>Amplified<br/>Temperature<br/>(WTEP)<br/>(DEGF)</div><div>02</div></div>       | <div><div>PFCs Spinner<br/>(SPIN)<br/>(RPS)</div><div>-1010</div></div>                 |   |
| <div>Tension<br/>(TENS)<br/>(LBF)</div> <div>5002500</div> | <div><div>PFCs Caliper Y<br/>(PFC2)<br/>(IN)</div><div>-37</div></div> | <div><div>Filtered Water<br/>Holdup (FHM)</div><div>01<br/>(----</div></div>  | <div><div>Avg BUB count<br/>(DDFBM)</div><div>0500<br/>(CPS)</div></div>  | <div><div>Well Pressure<br/>(WPRE)<br/>(PSIA)</div><div>30003400</div></div>             | <div><div>Filtered Auxiliary<br/>Spinner 1 (SPI1)<br/>(RPS)</div><div>-1010</div></div> |   |
| <div>Pipe Ovalisation<br/>Between PFC1 and<br/>PFC2</div>  |  | <div><div>Well Fluid Density<br/>(WFDE)<br/>(G/C3)</div><div>01</div></div>   | <div><div>Filtered Bubble<br/>Count (FBM)<br/>(CPS)</div><div>0500</div></div>  | <div><div>Well Temperature<br/>(WTEP)<br/>(DEGF)</div><div>218228</div></div>            | <div><div>Well Fluid Density<br/>(WFDE)<br/>(G/C3)</div><div>01</div></div>             |   |
|  |  |   | <div><div>Filtered Main<br/>Spinner (SPIN)</div><div>-1010<br/>(RPS)</div></div>  |  |   |   |

# OP System Version: 15C0-309

MCM

|         |          |        |          |
|---------|----------|--------|----------|
| PFCS-A  | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2 | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B  | 15C0-309 |        |          |

## Parameters

| DLIS Name                                      | Description                                       | Value          |
|--|---|----------------|
| PFCS-A: PSP Flow and caliper Tool              |   |                |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |
| CSID   | Casing Size I.D.                                  | 6.276 IN       |
| DDRC   | Dual DEFT DELTA RB COMPUTATION                    | D1RB2-D1RB     |
| DDRS   | Dual DEFT RB Source                               | D1RB           |
| DFBD   | DEFT Blank Disallowed Probes                      | NO             |
| DFFI   | DEFT Flip Image                                   | NO             |
| DFII   | DEFT Image Interpolation                          | YES            |
| DFIRS  | DEFT Image Rotation Selection                     | TOP_MIDDLE     |
| DFPP   | Probes Arm Position                               | B              |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16 DEG         |
| SDCF   | Spinner Depth Constant Filter                     | 6              |
| SP11   | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |
| PILS-A: PSP In Line Spinner Flowmeter          |   |                |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |
| SDCF   | Spinner Depth Constant Filter                     | 6              |
| SP11   | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |
| DEFT-C2: DEFT_C Tool                           |   |                |
| CSID   | Casing Size I.D.                                  | 6.276 IN       |
| DDRC   | Dual DEFT DELTA RB COMPUTATION                    | D1RB2-D1RB     |
| DDRS   | Dual DEFT RB Source                               | D1RB           |
| DFBD   | DEFT Blank Disallowed Probes                      | NO             |
| DFFI   | DEFT Flip Image                                   | NO             |
| DFII   | DEFT Image Interpolation                          | YES            |
| DFIRS  | DEFT Image Rotation Selection                     | TOP_MIDDLE     |
| DFPP2  | Probes Arm Position (2nd tool)                    | B              |
| PGMC-A: PSP Gradiomanometer Measurement Module |   |                |
| CSID   | Casing Size I.D.                                  | 6.276 IN       |
| GCPG   | Gradio Surf.Cal Diff.Pres Gain                    | 1              |
| GCPO   | Gradio Surf.Cal Diff.Pres Offset                  | 0 KPAA         |
| PDSH   | Gradio Correction Density Shift                   | 0 G/C3         |
| PSPT-B: Production Services Logging Platform   |   |                |
| CSID   | Casing Size I.D.                                  | 6.276 IN       |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16 DEG         |
| BORDYN: BorDyn (Well Test Validation)          |   |                |
| CSID   | Casing Size I.D.                                  | 6.276 IN       |
| System and Miscellaneous                       |   |                |
| DO   | Depth Offset for Playback                         | -1.0 M         |
| PP   | Playback Processing                               | RECOMPUTE      |

## Input DLIS Files

|         |                          |          |                   |          |          |
|---------|--------------------------|----------|-------------------|----------|----------|
| DEFAULT | Flip_FCS_ILS_DEFT_014LUP | PRODUCER | 26-Jan-2008 04:58 | 2523.0 M | 2362.4 M |
|---------|--------------------------|----------|-------------------|----------|----------|

## Output DLIS Files

|         |                         |       |          |                   |
|---------|-------------------------|-------|----------|-------------------|
| DEFAULT | FCS_ILS_DEFT_GMS_014PUP | FN:34 | PRODUCER | 26-Jan-2008 04:59 |
|---------|-------------------------|-------|----------|-------------------|

**Down Pass @ 10 M/Min  
Shut-In**

# Input DLIS Files

DEFAULT Flip\_FCS\_ILS\_DEFT\_014LUP PRODUCER 26-Jan-2008 04:58 2523.0 M 2362.4 M

# Output DLIS Files

DEFAULT FCS\_ILS\_DEFT\_GMS\_014PUP FN:34 PRODUCER 26-Jan-2008 04:59 2510.0 M 2379.3 M

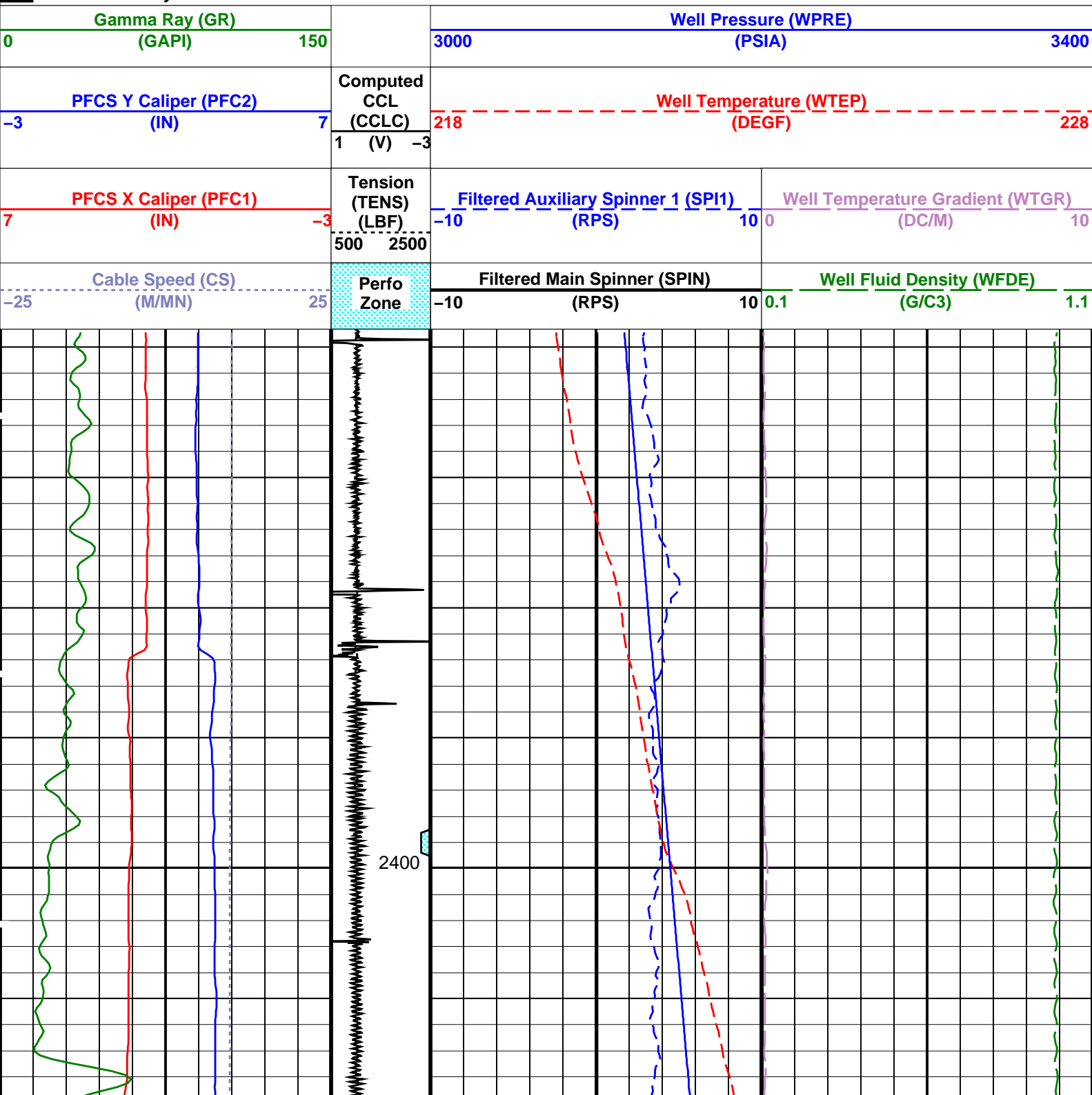
## OP System Version: 15C0-309

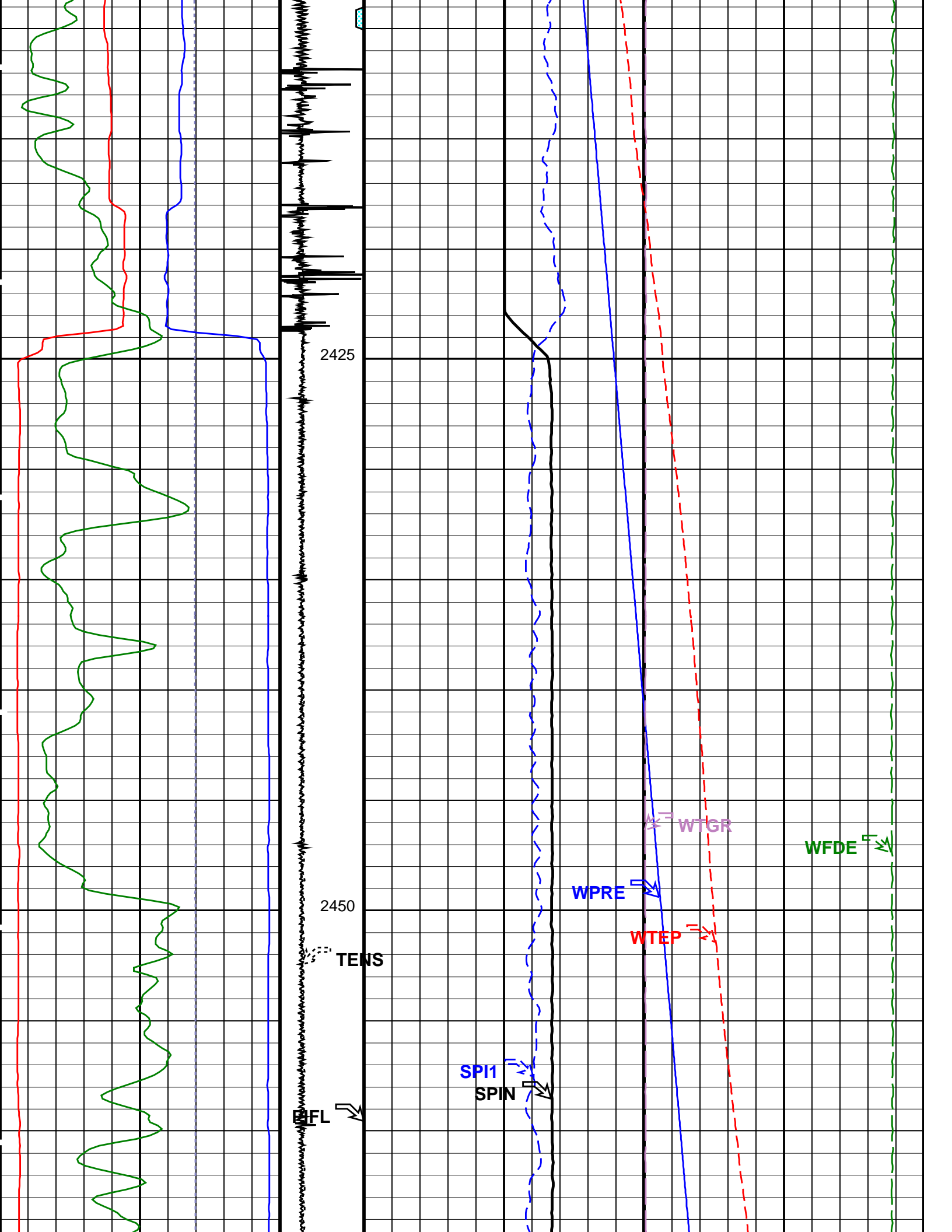
MCM

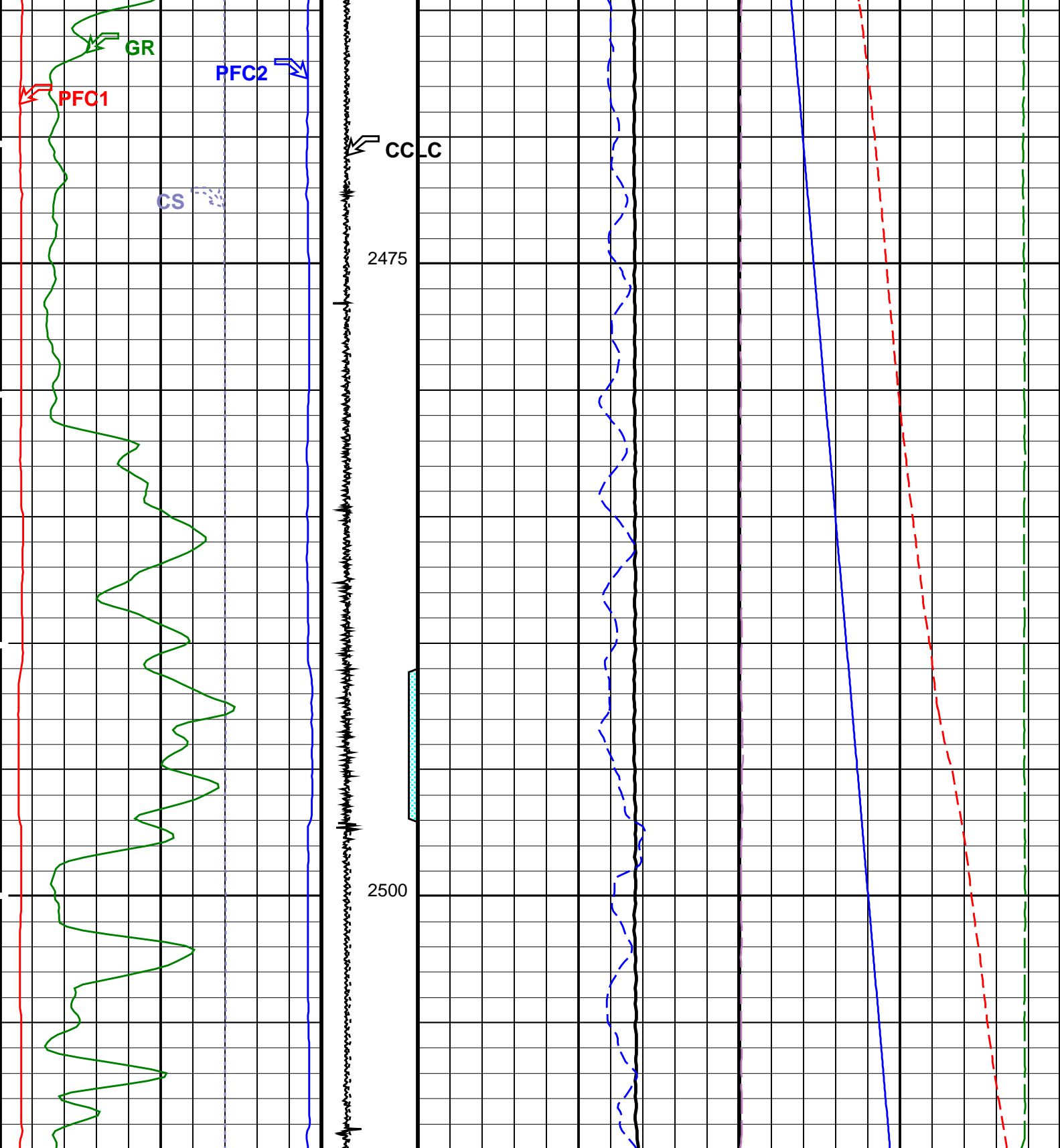
PFCS-A 15C0-309 PILS-A 15C0-309  
DEFT-C2 15C0-309 PGMC-A 15C0-309  
PSPT-B 15C0-309

## PIP SUMMARY

Time Mark Every 60 S







|                               |    |                            |  |    |  |     |
|-------------------------------|----|----------------------------|--|----|--|-----|
| Cable Speed (CS)<br>(M/MN)    |    | Perfo<br>Zone              | Filtered Main Spinner (SPIN)<br>(RPS)        |    | Well Fluid Density (WFDE)<br>(G/C3)        |     |
| -25                           | 25 |                            | -10  | 10 | 0.1  | 1.1 |
| PFCS X Caliper (PFC1)<br>(IN) |    | Tension<br>(TENS)<br>(LBF) | Filtered Auxiliary Spinner 1 (SPI1)<br>(RPS) |    | Well Temperature Gradient (WTGR)<br>(DC/M) |     |
| 7                             | -3 | 500 2500                   | -10  | 10 | 0  | 10  |
| PFCS Y Caliper (PFC2)<br>(IN) |    | Computed<br>CCL<br>(CCLC)  | Well Temperature (WTEP)<br>(DEGF)            |    |  |     |
| -3                            | 7  | 1 (V) -3                   | 218  |    |  | 228 |

|                |        |                       |      |
|----------------|--------|-----------------------|------|
| Gamma Ray (GR) |        | Well Pressure (WP/RE) |      |
| 0              | (GAPI) | 150                   | 3000 |
|                |        | (PSIA)                | 3400 |

PIP SUMMARY

Time Mark Every 60 S


Format: PSP\_1    Vertical Scale: 1:200    Graphics File Created: 26-Jan-2008 04:59

|                             |          |        |          |
|-----------------------------|----------|--------|----------|
| OP System Version: 15C0-309 |          |        |          |
| MCM                         |          |        |          |
| PFCS-A                      | 15C0-309 | PILS-A | 15C0-309 |
| DEFT-C2                     | 15C0-309 | PGMC-A | 15C0-309 |
| PSPT-B                      | 15C0-309 |        |          |

| Parameters                                     |   |                |      |
|--|---|----------------|------|
| DLIS Name                                      | Description                                       | Value          |      |
| PFCS-A: PSP Flow and caliper Tool              |   |                |      |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |      |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16             | DEG  |
| SDCF   | Spinner Depth Constant Filter                     | 6              |      |
| SP1  | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |      |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |      |
| PILS-A: PSP In Line Spinner Flowmeter          |   |                |      |
| AMOD   | Spinner Filter Averaging Mode                     | LINEAR_AVERAGE |      |
| SDCF   | Spinner Depth Constant Filter                     | 6              |      |
| SP1  | Auxiliary Spinner 1 Flowmeter Sonde               | PILS-A         |      |
| SPIN   | Main Spinner Flowmeter Sonde                      | PFCS-A_3.5     |      |
| PGMC-A: PSP Gradiomanometer Measurement Module |   |                |      |
| GCPG   | Gradio Surf.Cal Diff.Pres Gain                    | 1              |      |
| GCPO   | Gradio Surf.Cal Diff.Pres Offset                  | 0              | KPAA |
| PDSH   | Gradio Correction Density Shift                   | 0              | G/C3 |
| PSPT-B: Production Services Logging Platform   |   |                |      |
| GDEV   | Average Angular Deviation of Borehole from Normal | 16             | DEG  |
| System and Miscellaneous                       |   |                |      |
| DO   | Depth Offset for Playback                         | -1.0           | M    |
| PP   | Playback Processing                               | RECOMPUTE      |      |

| Input DLIS Files |                          |          |                   |          |          |
|------------------|--------------------------|----------|-------------------|----------|----------|
| DEFAULT          | Flip_FCS_ILS_DEFT_014LUP | PRODUCER | 26-Jan-2008 04:58 | 2523.0 M | 2362.4 M |

| Output DLIS Files |                         |       |          |                   |  |
|-------------------|-------------------------|-------|----------|-------------------|--|
| DEFAULT           | FCS_ILS_DEFT_GMS_014PUP | FN:34 | PRODUCER | 26-Jan-2008 04:59 |  |



# Before Survey Calibrations





MAXIS Field Log

Calibration and Check Summary



| Measurement   | Nominal | Master | Before | After | Change | Limit | Units |
|---|---------|--------|--------|-------|--------|-------|-------|
| PSP Flow and caliper Tool Wellsite Calibration – PFCS Caliper Calibration |         |        |        |       |        |       |       |
| Before: 24-Jan-2008 2:57  |         |        |        |       |        |       |       |
| PFCS CaliperX Small Ring  | 5.500   | N/A    | 5.345  | N/A   | N/A    | N/A   | IN    |
| PFCS CaliperX Large Ring  | 8.000   | N/A    | 7.921  | N/A   | N/A    | N/A   | IN    |
| PFCS CaliperY Small Ring  | 5.500   | N/A    | 5.686  | N/A   | N/A    | N/A   | IN    |
| PFCS CaliperY Large Ring  | 8.000   | N/A    | 8.202  | N/A   | N/A    | N/A   | IN    |

|  |       |     |       |     |     |     |      |
|--|-------|-----|-------|-----|-----|-----|------|
| DEFT_C Tool Wellsite Calibration – DEFT_C2 Caliper Calibration                   |       |     |       |     |     |     |      |
| Before: 24–Jan–2008 2:57   |       |     |       |     |     |     |      |
| DEFT–C2 Caliper Small Ring   | 5.500 | N/A | 5.480 | N/A | N/A | N/A | IN   |
| DEFT–C2 Caliper Large Ring   | 8.000 | N/A | 7.955 | N/A | N/A | N/A | IN   |
| Production Services Logging Platform Wellsite Calibration – Detector Calibration |       |     |       |     |     |     |      |
| Before: 24–Jan–2008 2:56   |       |     |       |     |     |     |      |
| Gamma–Ray Jig–Bkg  | 125.0 | N/A | 115.4 | N/A | N/A | N/A | GAPI |

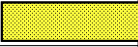
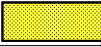
|  |          |     |
|--|----------|-----|
| PSP Flow and caliper Tool / Equipment Identification |          |     |
| Primary Equipment:                                   |          |     |
| PFCS Cartridge                                       | PFCC – A | 796 |
| PFCS Caliper   | Cali –   | 796 |
| PFCS Relative Bearing                                | Rela –   | 796 |
| PFCS 3.5 Spinner Diameter                            | Spin –   |     |
| PFCS Fluid Holdup Electric Probes                    | Hold –   |     |
| Auxiliary Equipment:                                 |          |     |
| PFCS Cartridge Housing                               | PFCH – A | 796 |

| 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   |  |                    |                  | 5.345 | Before           |  |                  |  | 7.921 | Before           |  |                  |  | 5.686 |
|  | N/A<br>(Minimum)  | 5.500<br>(Nominal) | N/A<br>(Maximum) |       | N/A<br>(Minimum) | 8.000<br>(Nominal)  | N/A<br>(Maximum) |  |       | N/A<br>(Minimum) | 5.500<br>(Nominal)  | N/A<br>(Maximum) |  |       |
| Phase  | PFCS CaliperY Large Ring IN   |                    |                  | Value |                  |   |                  |  |       |                  |   |                  |  |       |
| Before   |  |                    |                  | 8.202 |                  |   |                  |  |       |                  |   |                  |  |       |
|  | N/A<br>(Minimum)  | 8.000<br>(Nominal) | N/A<br>(Maximum) |       |                  |   |                  |  |       |                  |   |                  |  |       |
| Before: 24-Jan-2008 2:57                       |   |                    |                  |       |                  |   |                  |  |       |                  |   |                  |  |       |

|  |          |     |
|--|----------|-----|
| DEFT_C Tool / Equipment Identification |          |     |
| Primary Equipment:                     |          |     |
| DEFTC Cartridge                        | DFCC – C | 716 |
| DEFT_C Caliper                         | Cali –   | 716 |
| DEFT_C2 Relative Bearing               | Rela –   | 716 |
| DEFT_C Flowmeter probes                | Flow –   |     |
| Auxiliary Equipment:                   |          |     |
| DEFTC Cartridge Housing                | DFCH – C | 716 |

| DEFT_C Tool Wellsite Calibration |   |                    |                  |        |   |                    |                  |
|----------------------------------|---|--------------------|------------------|--------|---|--------------------|------------------|
| DEFT_C2 Caliper Calibration      |   |                    |                  |        |   |                    |                  |
| Phase                            | DEFT–C2 Caliper Small Ring IN   |                    | Value            | Phase  | DEFT–C2 Caliper Large Ring IN   |                    | Value            |
| Before                           |  |                    | 5.480            | Before |  |                    | 7.955            |
|                                  | N/A<br>(Minimum)  | 5.500<br>(Nominal) | N/A<br>(Maximum) |        | N/A<br>(Minimum)  | 8.000<br>(Nominal) | N/A<br>(Maximum) |
| Before: 24–Jan–2008 2:57         |   |                    |                  |        |   |                    |                  |

|   |          |       |
|---|----------|-------|
| 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 –    |       |
| PSP GR  | GR –     | 33143 |
| PSP RTD Well Temperature  | RTD_ –   | 827   |
| PSP Crystal Quartz Gauge Type F                                 | CQG_ –   | 827   |
| PSP Telemetry and bus master cartridge                          | PSTC –   | 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  |  | 3.712              | Before |  | 115.4              |
|   | 0<br>(Minimum)   | 30.00<br>(Nominal) |        | 110.0<br>(Minimum)  | 125.0<br>(Nominal) |
|   |  | 120.0<br>(Maximum) |        |   | 140.0<br>(Maximum) |
| Before: 24-Jan-2008 2:56                                  |  |                    |        |   |                    |

|          |                                    |              |
|----------|------------------------------------|--------------|
| Company: | Esso Australia Pty Ltd.            | Schlumberger |
| Well:    | A-16a                              |              |
| Field:   | Halibut                            |              |
| Rig:     | Crane                              |              |
| Country: | Australia                          |              |
|          | PSP<br>Production Log<br>24-Jan-08 |              |