

Company: Esso Australia Pty Ltd.

Well: A17

Field: Snapper

Rig: Prod4 / Crane

Country: Australia

|   |                            |
|---|----------------------------|
| Prod4 / Crane                           |                            |
| Snapper                                 |                            |
| Gippsland                               |                            |
| A17                                     |                            |
| Esso Australia Pty Ltd.                 |                            |
| RST-C Sigma Survey                      |                            |
| 2 1/8" Powerjet MWPT Perforation Record |                            |
| 7 5/8" Posiset Plug Setting Record      |                            |
| Gippsland                               | Elev.: K.B. 41.68 m        |
| Basin                                   | G.L. -55.00 m              |
| Bass Strait                             | D.F. 41.68 m               |
| Permanent Datum:                        | M.S.L.                     |
| Log Measured From:                      | D.F.                       |
| Drilling Measured From:                 | D.F.                       |
| State: Victoria                         | Max. Well Deviation 63 deg |
|   | Longitude 148 101'26.72"E  |
|   | Latitude 038 11'43.23"S    |

|                               |                                |              |  |
|-------------------------------|--------------------------------|--------------|--|
| Logging Date                  | 6-May-2009                     |              |  |
| Run Number                    | 1 through 7                    |              |  |
| Depth Driller                 | 2349 m                         |              |  |
| Schlumberger Depth            | 2179 m                         |              |  |
| Bottom Log Interval           | 2135 m                         |              |  |
| Top Log Interval              | 1930 m                         |              |  |
| Casing Fluid Type             | Production Fluids              |              |  |
| Salinity                      |                                |              |  |
| Density                       |                                |              |  |
| Fluid Level                   | 0 m                            |              |  |
| BIT/CASING/TUBING STRING      |                                |              |  |
| Bit Size                      | 8.500 in                       |              |  |
| From                          | 805 m                          |              |  |
| To                            | 2349 m                         |              |  |
| Casing/Tubing Size            | 7.625 in                       |              |  |
| Weight                        | 26.4 lbn/ft                    |              |  |
| Grade                         | K-55                           |              |  |
| From                          | 15.48 m                        |              |  |
| To                            | 2349 m                         |              |  |
| Maximum Recorded Temperatures | 184 degF                       |              |  |
| Logger On Bottom              | 6-May-2009                     | 14:59        |  |
| Unit Number                   | 889                            | Prod4 / Ausl |  |
| Recorded By                   | B.Donahoe, S Gilbert & O Darby |              |  |
| Witnessed By                  | D. Madden, M. Wilson           |              |  |

| 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             | 63 deg  |  |  |       |       |       |
| CEMENTING DATA                |         |  |  |       |       |       |
| Primary/Squeeze               | Primary |  |  |       |       |       |
| Casing String No              |         |  |  |       |       |       |
| Lead Cement Type              |         |  |  |       |       |       |
| Volume                        |         |  |  |       |       |       |
| Density                       |         |  |  |       |       |       |
| Water Loss                    |         |  |  |       |       |       |
| Additives                     |         |  |  |       |       |       |
| Tail Cement Type              |         |  |  |       |       |       |
| Volume                        |         |  |  |       |       |       |
| Density                       |         |  |  |       |       |       |
| Water Loss                    |         |  |  |       |       |       |
| Additives                     |         |  |  |       |       |       |
| Expected Cement Top           |         |  |  |       |       |       |
| Logging Date                  |         |  |  |       |       |       |
| Run Number                    |         |  |  |       |       |       |
| Depth Driller                 |         |  |  |       |       |       |
| Schlumberger Depth            |         |  |  |       |       |       |
| Bottom Log Interval           |         |  |  |       |       |       |
| Top Log Interval              |         |  |  |       |       |       |
| Casing Fluid Type             |         |  |  |       |       |       |
| Salinity                      |         |  |  |       |       |       |
| Density                       |         |  |  |       |       |       |
| Fluid Level                   |         |  |  |       |       |       |
| BIT/CASING/TUBING STRING      |         |  |  |       |       |       |
| Bit Size                      |         |  |  |       |       |       |
| From                          |         |  |  |       |       |       |
| To                            |         |  |  |       |       |       |
| Casing/Tubing Size            |         |  |  |       |       |       |
| Weight                        |         |  |  |       |       |       |
| Grade                         |         |  |  |       |       |       |
| From                          |         |  |  |       |       |       |
| To                            |         |  |  |       |       |       |
| Maximum Recorded Temperatures |         |  |  |       |       |       |
| Logger On Bottom              |         |  |  |       |       |       |
| Unit Number                   |         |  |  |       |       |       |
| Recorded By                   |         |  |  |       |       |       |
| Witnessed By                  |         |  |  |       |       |       |

## DEPTH SUMMARY LISTING

Date Created: 7-MAY-2009 14:04:40

## 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:     | 208196         |
| Calibration Date:         | 2-Dec-2008 | Calibration Date:             | 5-May-2009 | Length:            | 6300 M         |
| Calibrator Serial Number: | 30         | Calibrator Serial Number:     | 1167       | Conveyance Method: | Wireline       |
| Calibration Cable Type:   | 2-32ZT     | Number of Calibration Points: | 0          | Rig Type:          | Offshore Fixed |
| Wheel Correction 1:       | -1         |                               |            |                    |                |
| Wheel Correction 2:       | -2         |                               |            |                    |                |

## Depth Control Parameters

|                                      |                             |
|--------------------------------------|-----------------------------|
| Log Sequence:                        | Subsequent Trip To the Well |
| Reference Log Name:                  | A17a                        |
| Reference Log Run Number:            | N/A                         |
| Reference Log Date:                  | 6-Mar-2003                  |
| Subsequent Trip Down Log Correction: |                             |

### Depth Control Remarks

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

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| OTHER SERVICES1 | OTHER SERVICES2 |
|-----------------|-----------------|
| OS1:     None   | OS1:            |
| OS2:            | OS2:            |
| OS3:            | OS3:            |
| OS4:            | OS4:            |
| OS5:            | OS5:            |

REMARKS: RUN NUMBER 1

Log correlated to ExxonMobil composite supplied with logging program.

Maximum well deviation = 63deg @ 1072m MDKB.

Objectives: RST-C Sigma log with one static pass over the interval HUD (2186m) to 1930m MDKB and

one flowing pass over the interval HUD to 2100m MDKB at 900 ft/hr. Add perforations over the intervals 2105m to 2110.5m and

2112.5m to 2118m MDKB using 2-1/8" , 6spf, 45deg phased Powerjets with MWPT in two runs

Set a 7-5/8" MPBT for 26.4lb/ft casing at 2135m MDKB and top with 1m of cement.






















PST Survey: HUID: 2170 m MDKB SBHP: 3054 psia SBHT: 175 degf

|  |                                |
|--|--------------------------------|
| Gun# 1   | GUN#2                          |
| Top Shot @ 2112.5m MDKB  | Top Shot @ 2105m MDKB          |
| CCL to Top Shot = 3.45 m   | CCL to Top Shot = 3.45 m       |
| CCL Stop Depth =2109.05m MDKB                                      | CCL Stop Depth = 2101.55m MDKB |
| 7 5/8 Posiset Plug @ 2135m MDKB                                    |                                |
| CCL to Top of Seal = 7.15m   |                                |
| CCL Stop Depth = 2127.85m MDKB                                     |                                |
| CCL To Bottom of Bailer = 12m / CCL to Bottom of Dummy Plug = 3.6m |                                |
| Crew : Rick Murry , Andrew Mclellan ( DAYS )                       |                                |
| Jake Annear , Chris Shiells ( NIGHTS )                             |                                |

| RUN 1            |            |      | RUN 2            |       |      |
|------------------|------------|------|------------------|-------|------|
| SERVICE ORDER #: | B297-00004 |      | SERVICE ORDER #: |       |      |
| PROGRAM VERSION: | 16C0-147   |      | PROGRAM VERSION: |       |      |
| FLUID LEVEL:     | 0 m        |      | FLUID LEVEL:     |       |      |
| LOGGED INTERVAL  | START      | STOP | LOGGED INTERVAL  | START | STOP |
|                  |            |      |                  |       |      |
|                  |            |      |                  |       |      |
|                  |            |      |                  |       |      |
|                  |            |      |                  |       |      |

## EQUIPMENT DESCRIPTION

| RUN 1             |  | RUN 2             |  |
|-------------------|--|-------------------|--|
| SURFACE EQUIPMENT |  | SURFACE EQUIPMENT |  |
| MWPM-AA           |  | MPBM              |  |

| DOWNHOLE EQUIPMENT |   |       | DOWNHOLE EQUIPMENT |   |       |
|--------------------|---|-------|--------------------|---|-------|
| AH-SWBS-B 789      |   | 16.35 | AH-SWBS-B 785      |   | 13.83 |
| AH-SWBS-B 789      |   |       | AH-SWBS-B 785      |   |       |
| AH-SWBS-B 788      |  | 15.66 | AH-SWBS-B 786      |  | 13.14 |
| AH-SWBS-B 788      |   |       | AH-SWBS-B 786      |   |       |
| AH-SWBS-B 787      |  | 14.98 | AH-SWBS-B 787      |  | 12.46 |
| AH-SWBS-B 787      |   |       | AH-SWBS-B 787      |   |       |
| AH-SWBS-B 786      |  | 14.29 | AH-SWBS-B 788      |  | 11.77 |
| AH-SWBS-B 786      |   |       | AH-SWBS-B 788      |   |       |
| AH-SWBS-B 785      |  | 13.61 | AH-SWBS-S 789      |  | 11.08 |
| AH-SWBS-B 785      |   |       | AH-SWBS-S 789      |   |       |
| MH-SWHS-A 759      |  | 12.92 | MH-SWHS-A 759      |  | 10.40 |
| AH-124 7002        |  | 12.59 | CCL-PCCL 07336     |  | 10.07 |
| MWGT-AA 19         |  | 12.49 | MH-SWHS-A 759      |  | 9.61  |
| MWPG-AA 19         |   |       | MH-SWHS-A 759      |   |       |
| MWGH-AA 19         |   |       | CCL-PCCL 7336      |   |       |
| MWPT-CA 11         |  | 11.51 | MPSU-CA 1102       |  |       |
| MWPH-AA 94         |   |       | MPSU-CA 1102       |   |       |
| MWPS-AA 11         |   |       |                    |   |       |
|                    |   |       |                    |   |       |
|                    | CCL<br>SMWP Pres<br>SMWP Temp<br>Tension<br>____ TOOL ZERO                          |       |                    | CCL<br>Tachomete<br>Cable Cur<br>Head Volt<br>Tension<br>____ TOOL ZERO               |       |
| AH-Flex Joint 42   |  | 8.69  |                    |   |       |
| AH-Flex Joint 42   |   |       |                    |   |       |
| SAH-G 1047         |  | 8.23  |                    |   |       |
| MPD-MB 268         |  | 7.90  |                    |   |       |
| MPD-MB 336         |   |       |                    |   |       |
|                    |   |       |                    |   |       |

AH-ESIC 15042002  
AH-ESIC 15042002  
AH-Firing Head 1  
MWP\_GUN  
GUN-2 1/8" Phased Powerjet 1

7.37

6.93

6.71

MPEX-DA 7/58" Posiset Plug  
MPEX-DA

3.20

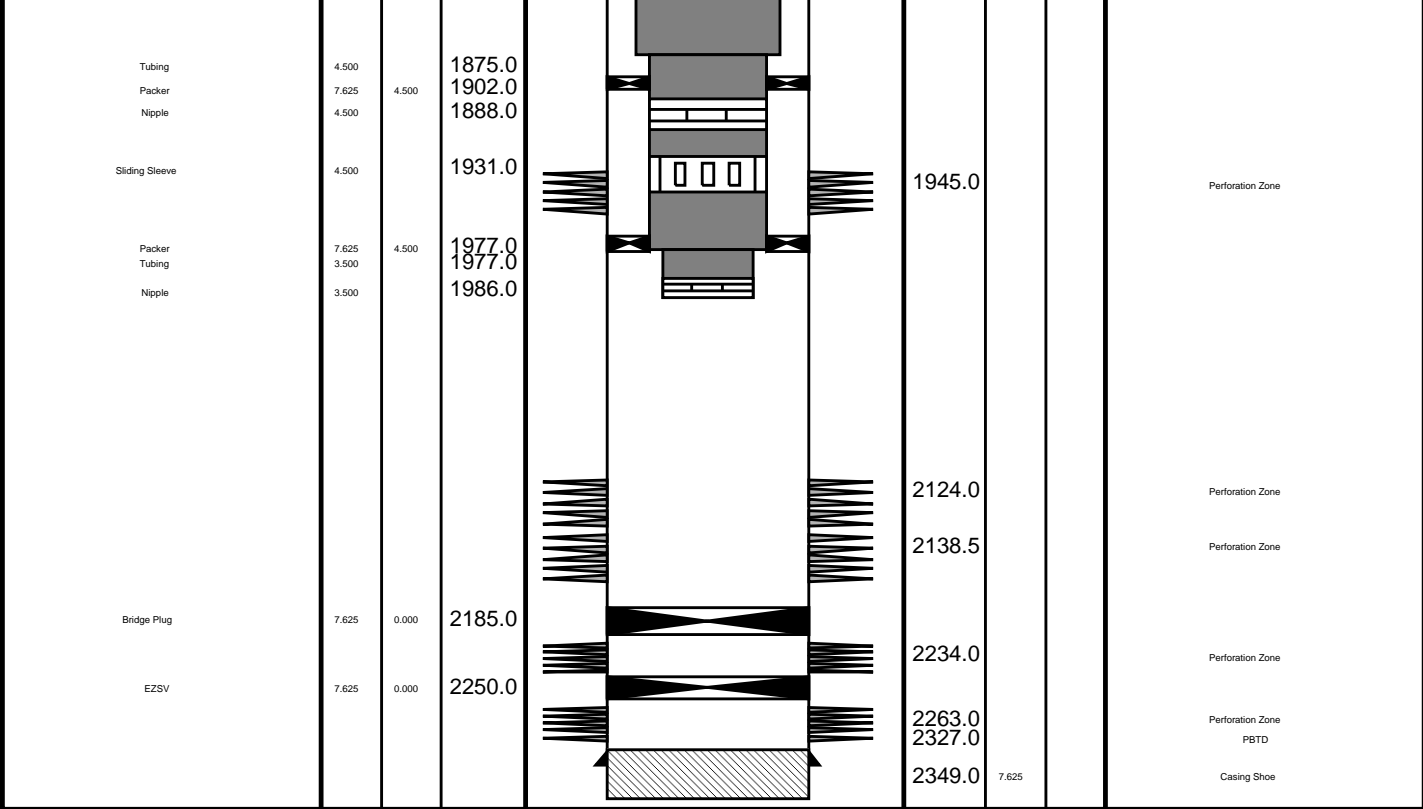
TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

TOOL BOTTOM

MAXIMUM STRING DIAMETER 2.13 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

| Production String | (in)  |    | (m)    | Well Schematic | (m)          | (in)            |       | Casing String                 |
|-------------------|-------|----|--------|----------------|--------------|-----------------|-------|-------------------------------|
|                   | OD    | ID | MD     |                | MD           | OD              | ID    |                               |
| Tubing            | 5.500 |    | 14.9   |                | 15.6<br>15.5 | 7.625<br>10.750 | 7.625 | Casing String<br>Liner Hanger |
| Shutin Valve      | 5.500 |    | 452.0  |                |              |                 |       |                               |
| Sliding Sleeve    | 5.500 |    | 1188.0 |                | 789.0        | 10.750          |       | Casing Shoe                   |



**Schlumberger**

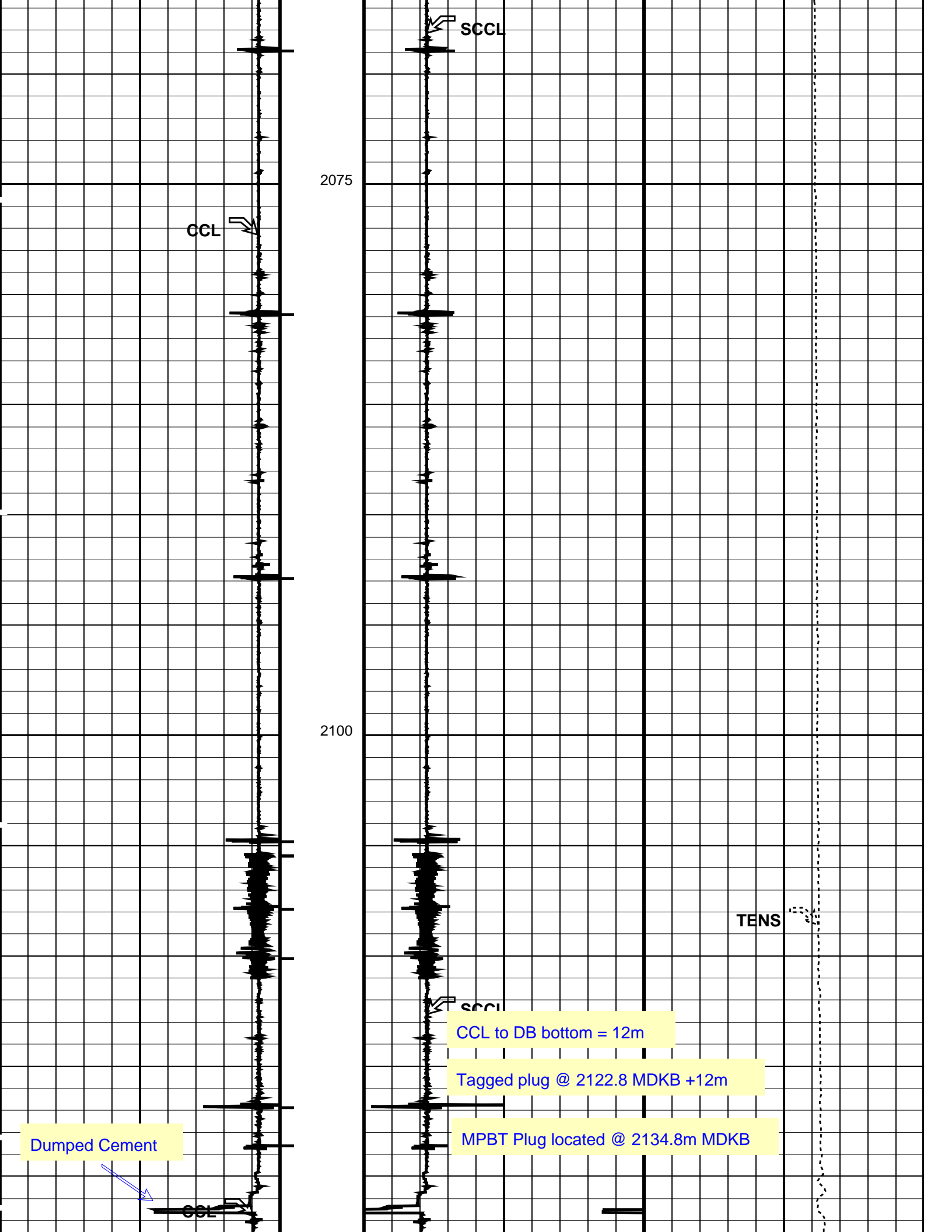
## Job Events Summary

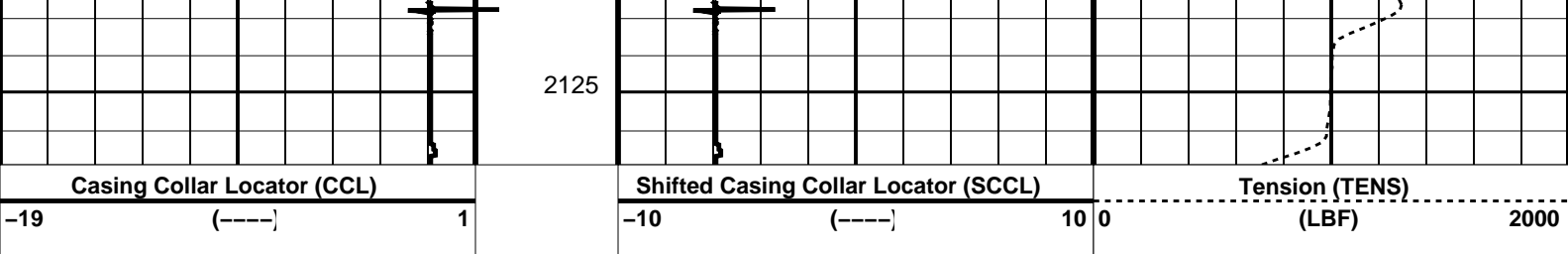
MAXIS Field Log

### Schlumberger Job Event Summary

|   | Time             | Elapsed Time | Depth (M)       | File           |
|---|------------------|--------------|-----------------|----------------|
| Log Pass (up)                                 | 6-May-2009 11:40 | 000:18       | 2188.5 - 1914.1 | RST_PSP_022LUP |
| RST Base line pass                            |                  |              |                 |                |
| Log Pass (up)                                 | 6-May-2009 18:36 | 000:21       | 2180.7 - 2084.5 | RST_PSP_034LUP |
| RST Sigma pass # 2                            |                  |              |                 |                |
| Log Pass (up)                                 | 6-May-2009 22:56 | 000:05       | 2126.3 - 2087.4 | PERFO_042LUP   |
| MWPT 2 1/8" PowerJet Correlation pass Gun # 1 |                  |              |                 |                |
| Log Pass (up)                                 | 6-May-2009 23:03 | 000:20       | 2128.9 - 2086.8 | PERFO_043LUP   |
| MWPT 2 1/8" PowerJet Shooting pass Gun # 1    |                  |              |                 |                |
| Log Pass (up)                                 | 7-May-2009 1:44  | 000:07       | 2127.2 - 2087.3 | PERFO_054LUP   |
| MWPT 2 1/8" PowerJet Correlation pass Gun # 2 |                  |              |                 |                |
| Log Pass (up)                                 | 7-May-2009 1:53  | 000:21       | 2128.0 - 2081.6 | PERFO_055LUP   |
| MWPT 2 1/8" PowerJet Shooting pass Gun # 2    |                  |              |                 |                |
| Log Pass (up)                                 | 7-May-2009 3:40  | 000:09       | 2153.1 - 1941.3 | PERFO_060LUP   |
| MPBT dummy plug correlation pass              |                  |              |                 |                |
| Log Pass (down)                               | 7-May-2009 6:31  | 000:12       | 1971.6 - 2090.0 | CCL_072LDP     |







PIP SUMMARY


Time Mark Every 60 S

| Parameters |                                 |        |    |
|------------|---------------------------------|--------|----|
| DLIS Name  | Description                     | Value  |    |
| CCLD       | CCL-PCCL: Casing Collar Locator | 12     | IN |
| CCLT       | CCL reset delay                 | 0.3    | V  |
|            | CCL Detection Level             |        |    |
| DO         | System and Miscellaneous        | 0.5    | M  |
| PP         | Depth Offset for Playback       |        |    |
|            | Playback Processing             | NORMAL |    |

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 07-May-2009 12:23

| OP System Version: 16C0-147 |          |          |          |
|-----------------------------|----------|----------|----------|
| MCM                         |          |          |          |
| SHM_GUN                     | 16C0-147 | CCL-PCCL | 16C0-147 |

| Input DLIS Files  |              |       |          |                   |          |          |
|-------------------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT           | PERFO_091LUP | FN:90 | PRODUCER | 07-May-2009 11:44 | 2126.4 M | 2048.9 M |
| Output DLIS Files |              |       |          |                   |          |          |
| DEFAULT           | PERFO_097PUP | FN:96 | PRODUCER | 07-May-2009 12:23 |          |          |



Water Dump Pass

MAXIS Field Log

| Input DLIS Files  |              |       |          |                   |          |          |
|-------------------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT           | PERFO_085LUP | FN:84 | PRODUCER | 07-May-2009 10:14 | 2126.3 M | 2051.8 M |
| Output DLIS Files |              |       |          |                   |          |          |
| DEFAULT           | PERFO_089PUP | FN:88 | PRODUCER | 07-May-2009 10:50 | 2128.3 M | 2053.7 M |

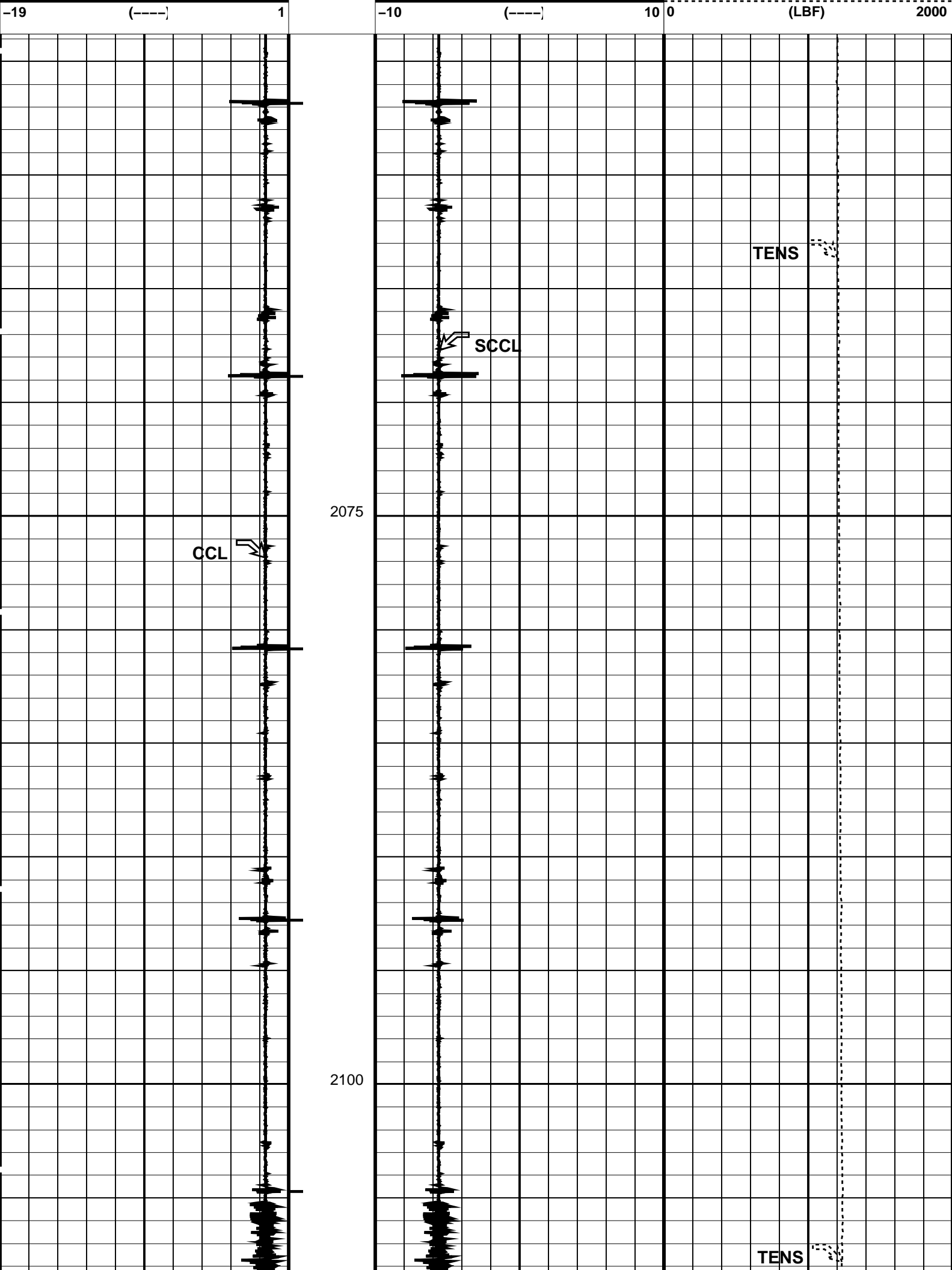
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|-----------------------------|----------|----------|----------|
| MCM                         |          |          |          |
| SHM_GUN                     | 16C0-147 | CCL-PCCL | 16C0-147 |

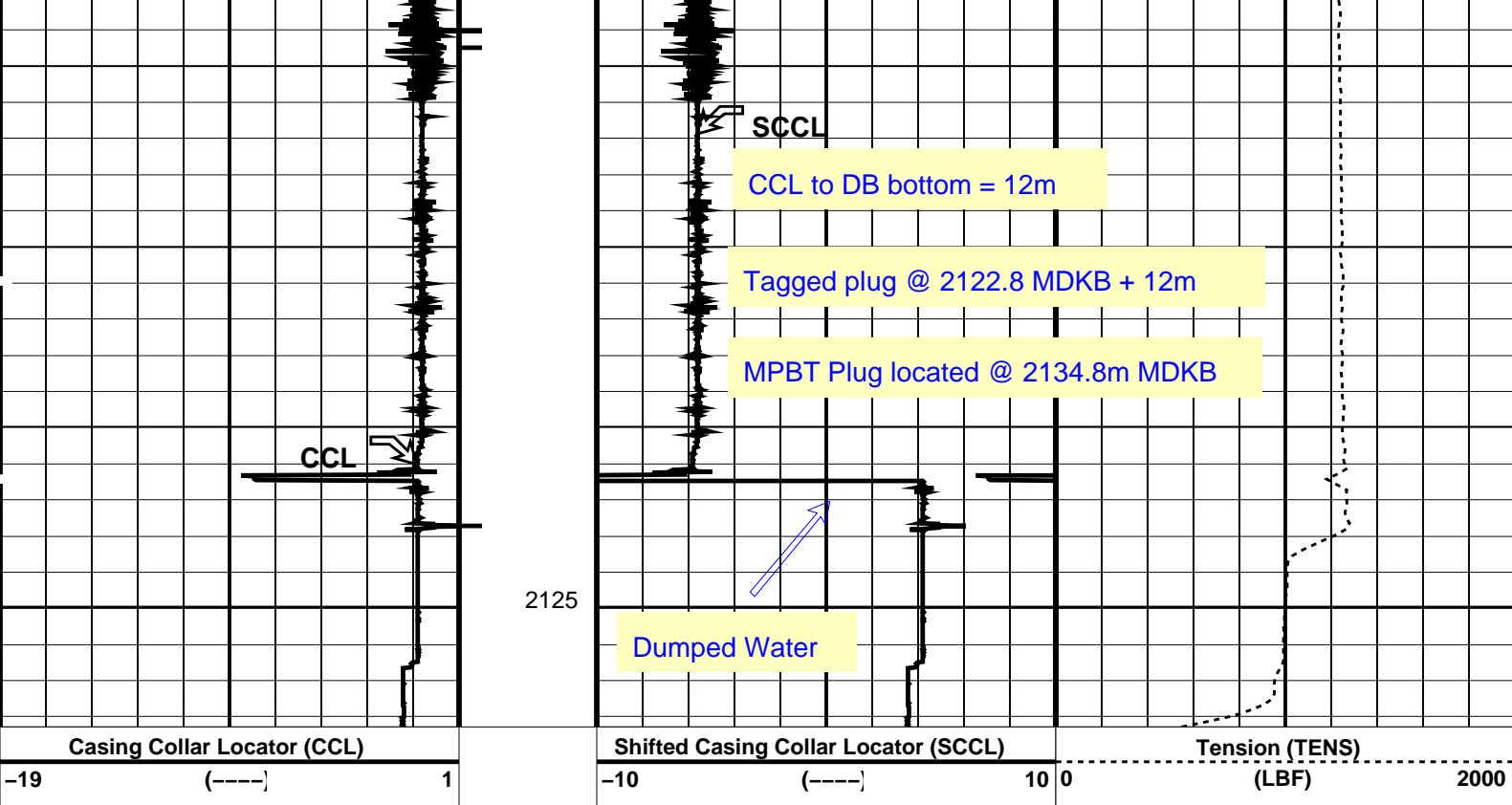
PIP SUMMARY

Time Mark Every 60 S

| Casing Collar Locator (CCL) | Shifted Casing Collar Locator (SCCL) | Tension (TENS) |
|-----------------------------|--------------------------------------|----------------|
|-----------------------------|--------------------------------------|----------------|







#### PIP SUMMARY

Time Mark Every 60 S

#### Parameters

| DLIS Name | Description                     | Value  |
|-----------|---------------------------------|--------|
| CCLD      | CCL-PCCL: Casing Collar Locator | 12 IN  |
| CCLT      | CCL reset delay                 | 0.3 V  |
| DO        | CCL Detection Level             | 2.0 M  |
| PP        | System and Miscellaneous        | NORMAL |
|           | Depth Offset for Playback       |        |
|           | Playback Processing             |        |

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 07-May-2009 10:50

#### OP System Version: 16C0-147

MCM

SHM\_GUN 16C0-147 CCL-PCCL 16C0-147

#### Input DLIS Files

DEFAULT PERFO\_085LUP FN:84 PRODUCER 07-May-2009 10:14 2126.3 M 2051.8 M

#### Output DLIS Files

DEFAULT PERFO\_089PUP FN:88 PRODUCER 07-May-2009 10:50

Schlumberger

Log Away From Plug Set

## Output DLIS Files

**DEFAULT**

**CCL\_079LUP**

**FN:78**

**PRODUCER**

07-May-2009 08:00

**2127.8 M**

**2059.5 M**

**OP System Version: 16C0-147**

**MCM**

**MPEX-DA**  
**CCL-PCCL**

16C0-147  
16C0-147

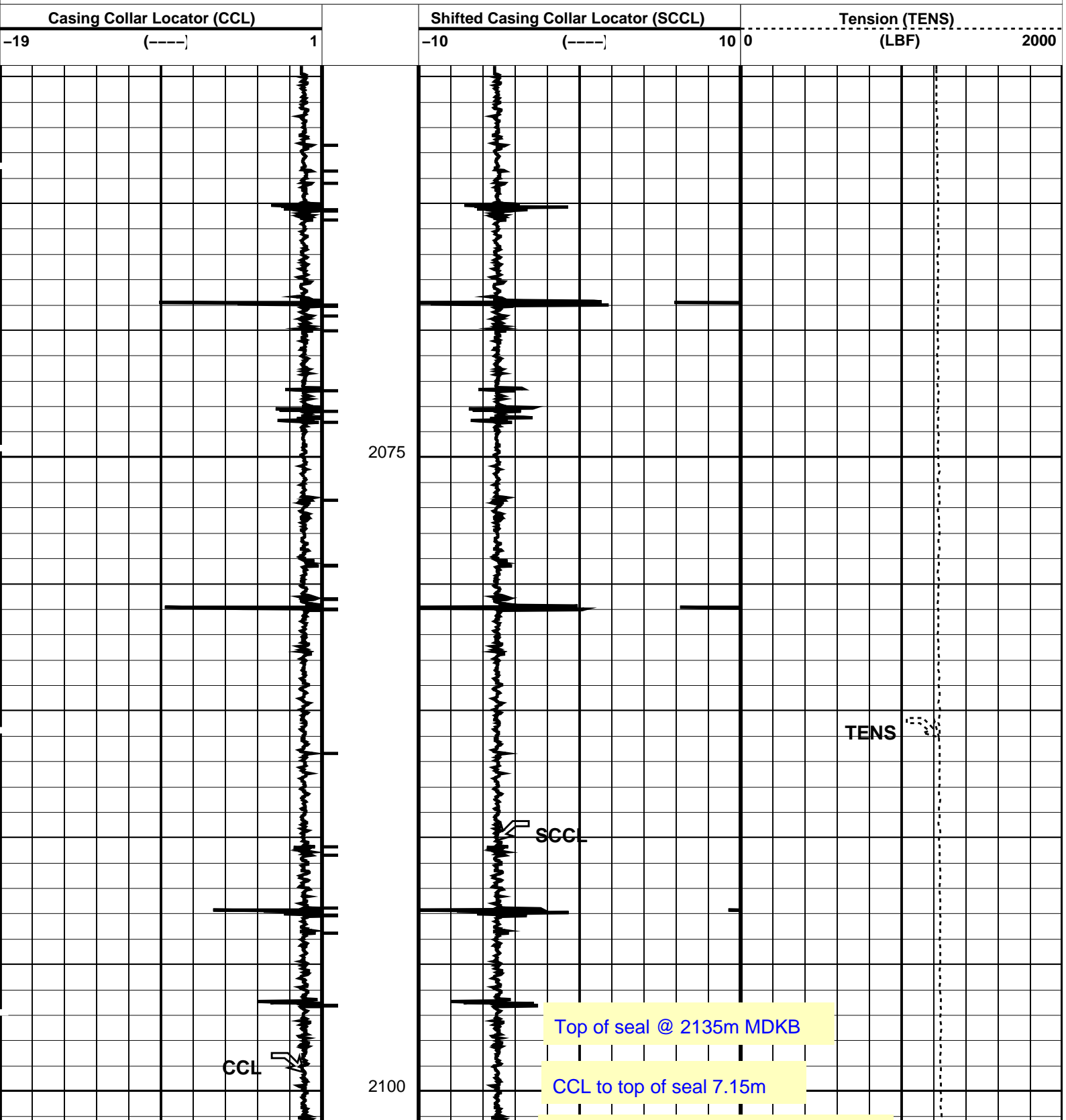
MPSU-CA

**16C0-147**

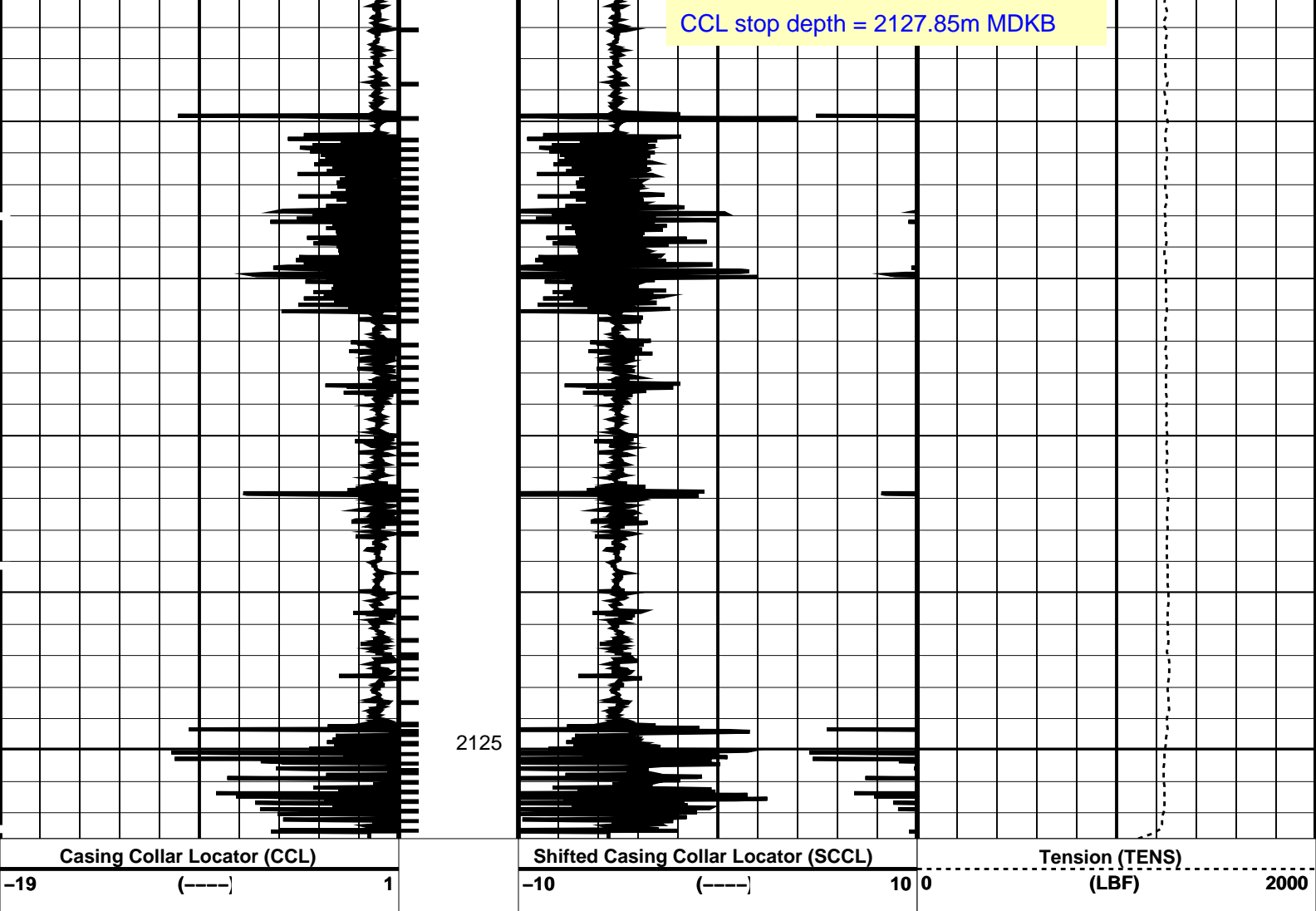
## PIP SUMMARY

## └─ Casing Collars

**Time Mark Every 60 S**



CCL stop depth = 2127.85m MDKB



#### PIP SUMMARY

← Casing Collars

Time Mark Every 60 S

#### Parameters

| DLIS Name | Description                     | Value |
|-----------|---------------------------------|-------|
| CCLD      | CCL-PCCL: Casing Collar Locator |       |
| CCLT      | CCL reset delay                 | 12 IN |
|           | CCL Detection Level             | 0.3 V |

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 07-May-2009 08:00

#### OP System Version: 16C0-147

MCM

|          |          |         |          |
|----------|----------|---------|----------|
| MPEX-DA  | 16C0-147 | MPSU-CA | 16C0-147 |
| CCL-PCCL | 16C0-147 |         |          |

#### Output DLIS Files

|         |            |       |          |                   |
|---------|------------|-------|----------|-------------------|
| DEFAULT | CCL_079LUP | FN:78 | PRODUCER | 07-May-2009 08:00 |
|---------|------------|-------|----------|-------------------|

**Schlumberger**

**7-5/8" MPBT 26.4lb/ft Posiset Plug  
Top of Seal @ 2135m MDKB**

Output DLIS Files

DEFAULT CCL\_076LUP FN:75 PRODUCER 07-May-2009 07:04

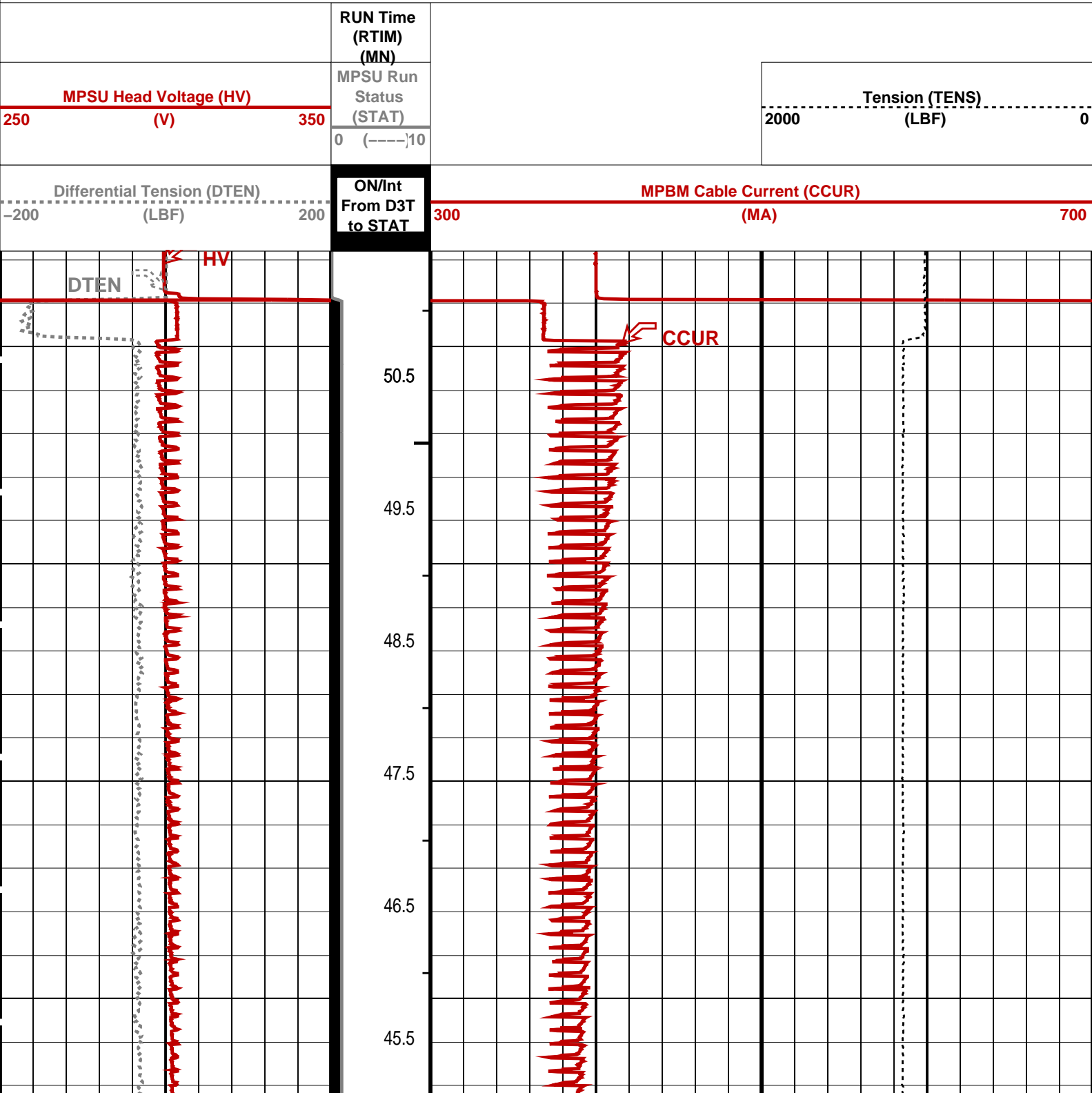
OP System Version: 16C0-147  
MCM

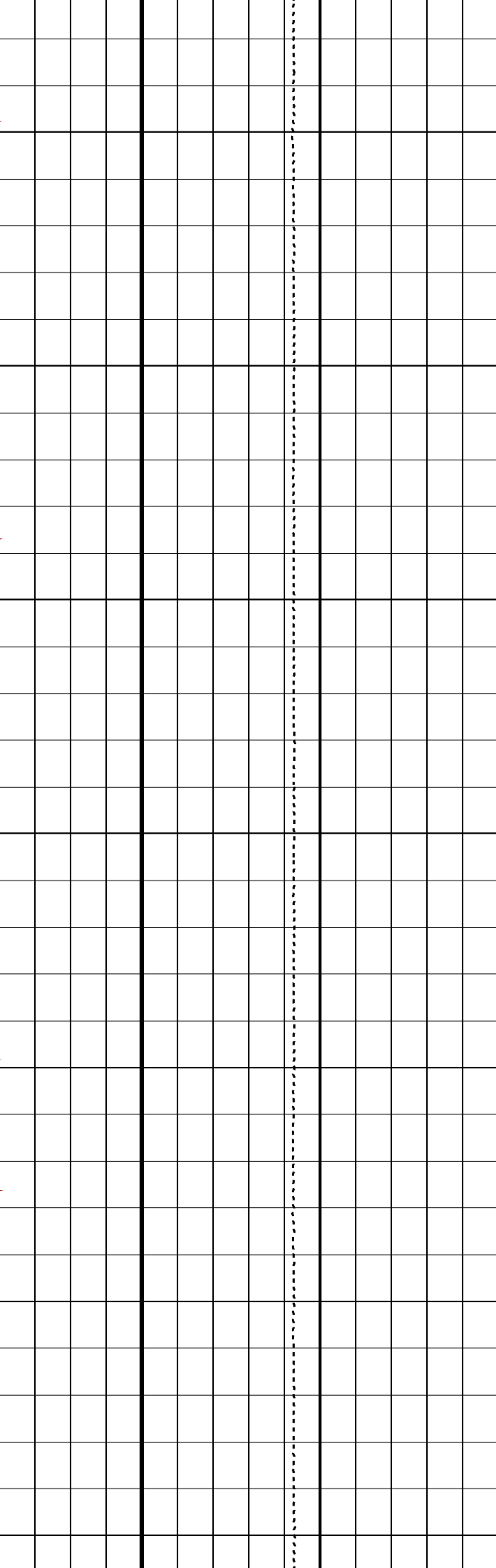
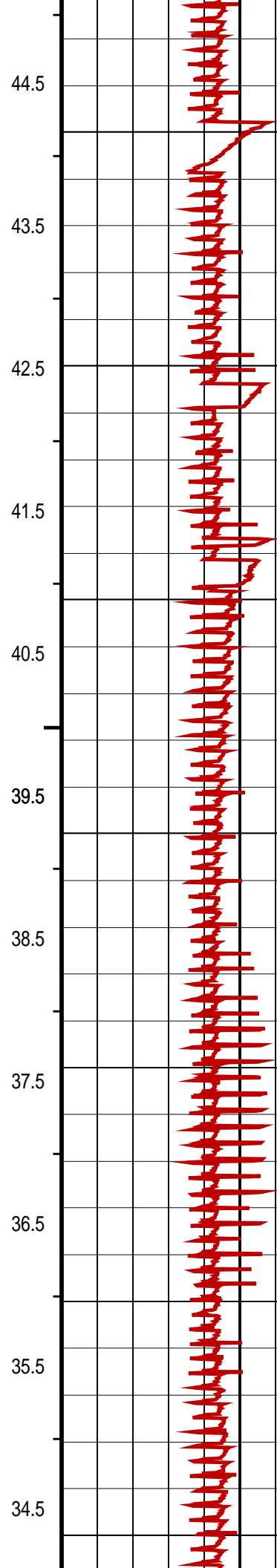
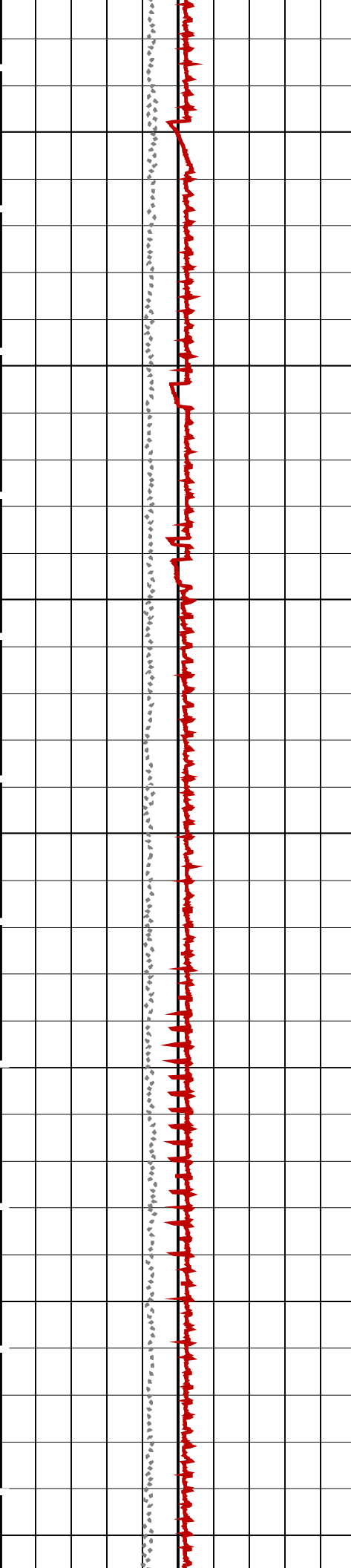
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CCL-PCCL 16C0-147

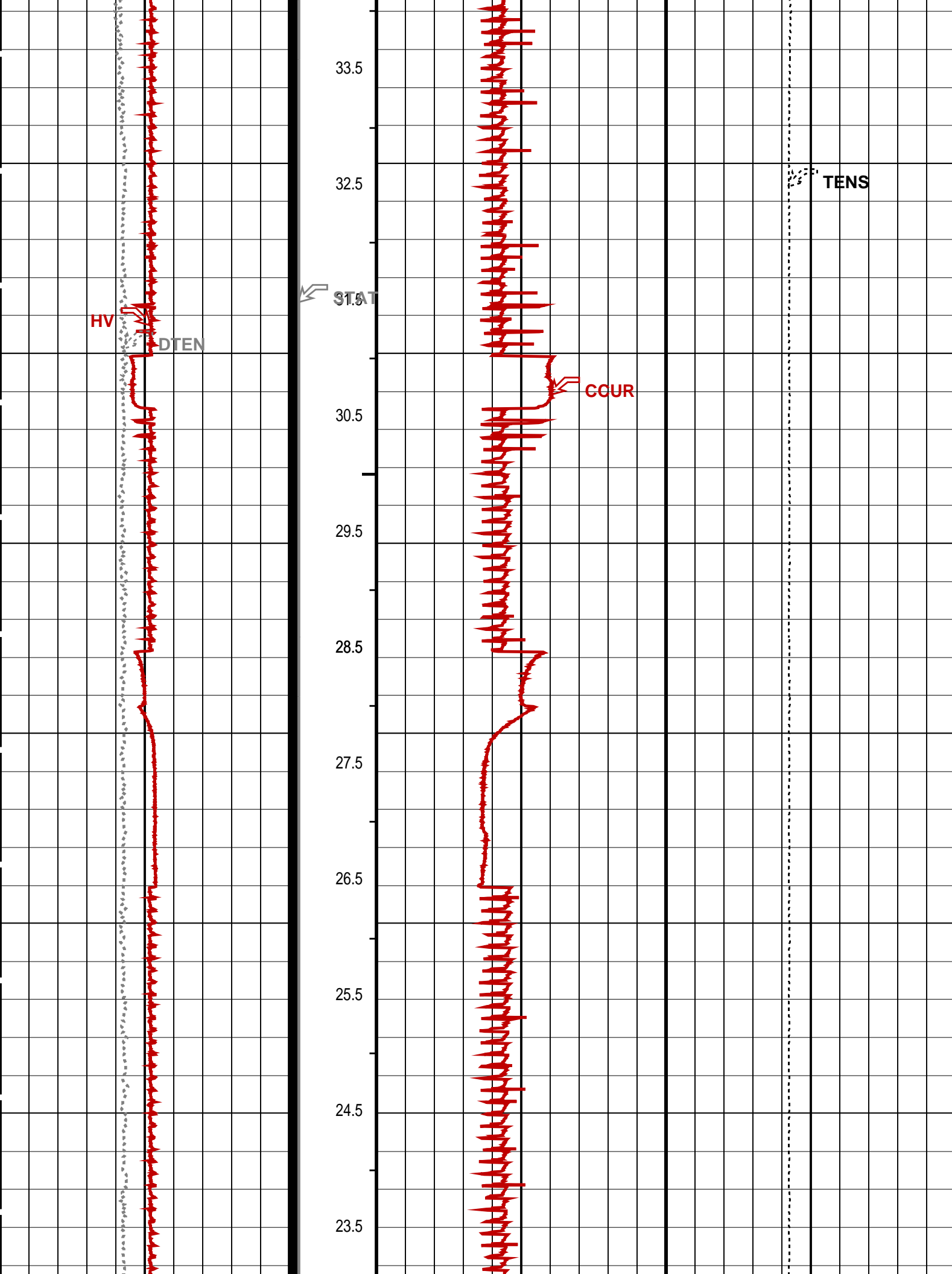
PIP SUMMARY

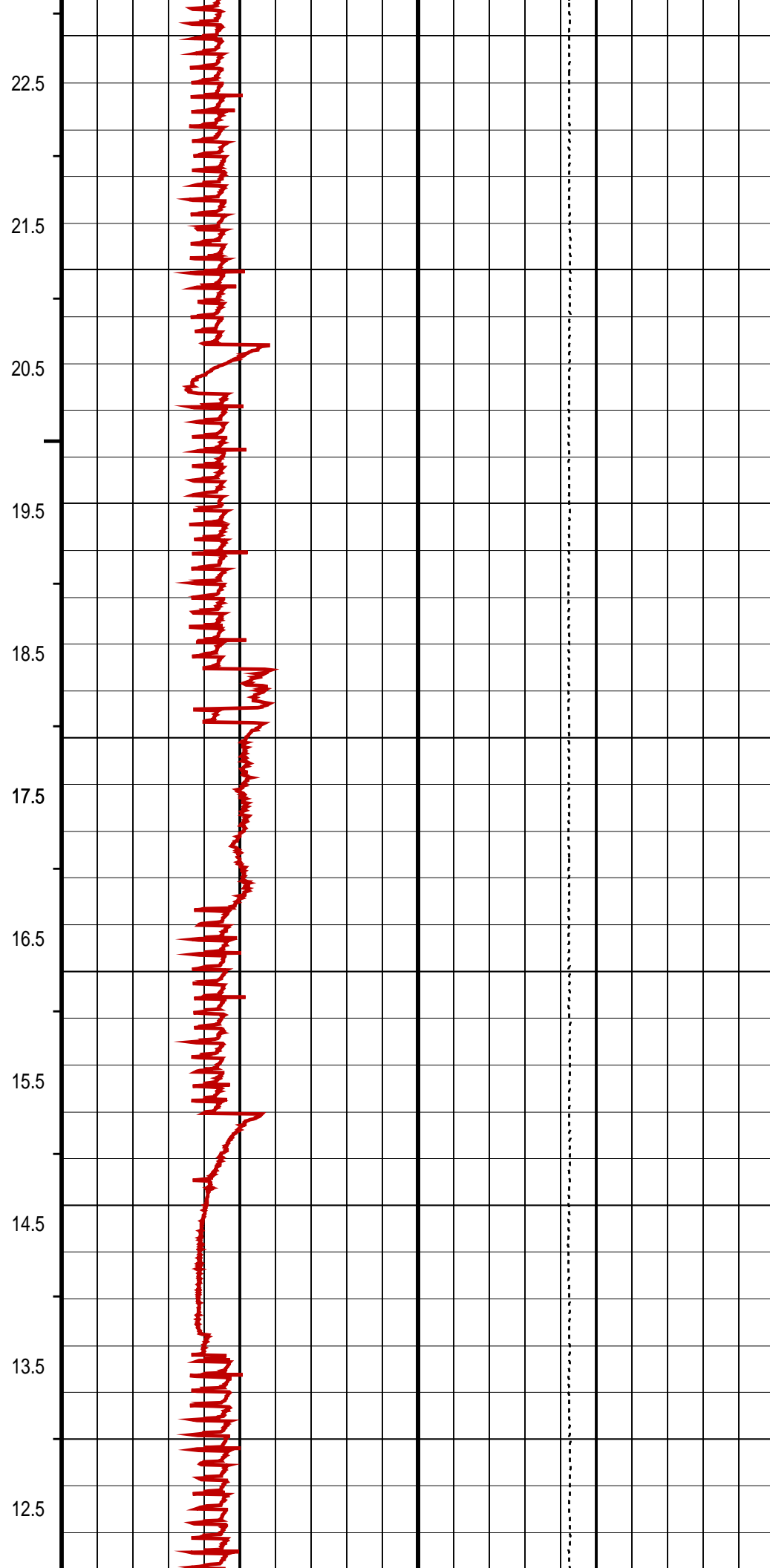
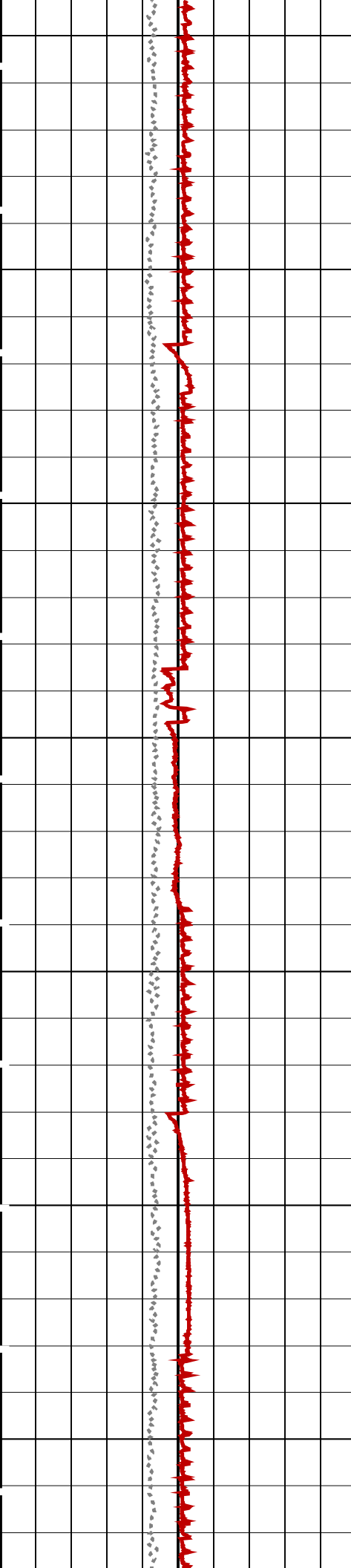
- └ MPSU Run Time Every 1 MN
- └ MPSU Run Time Every 10 MN

Time Mark Every 60 S

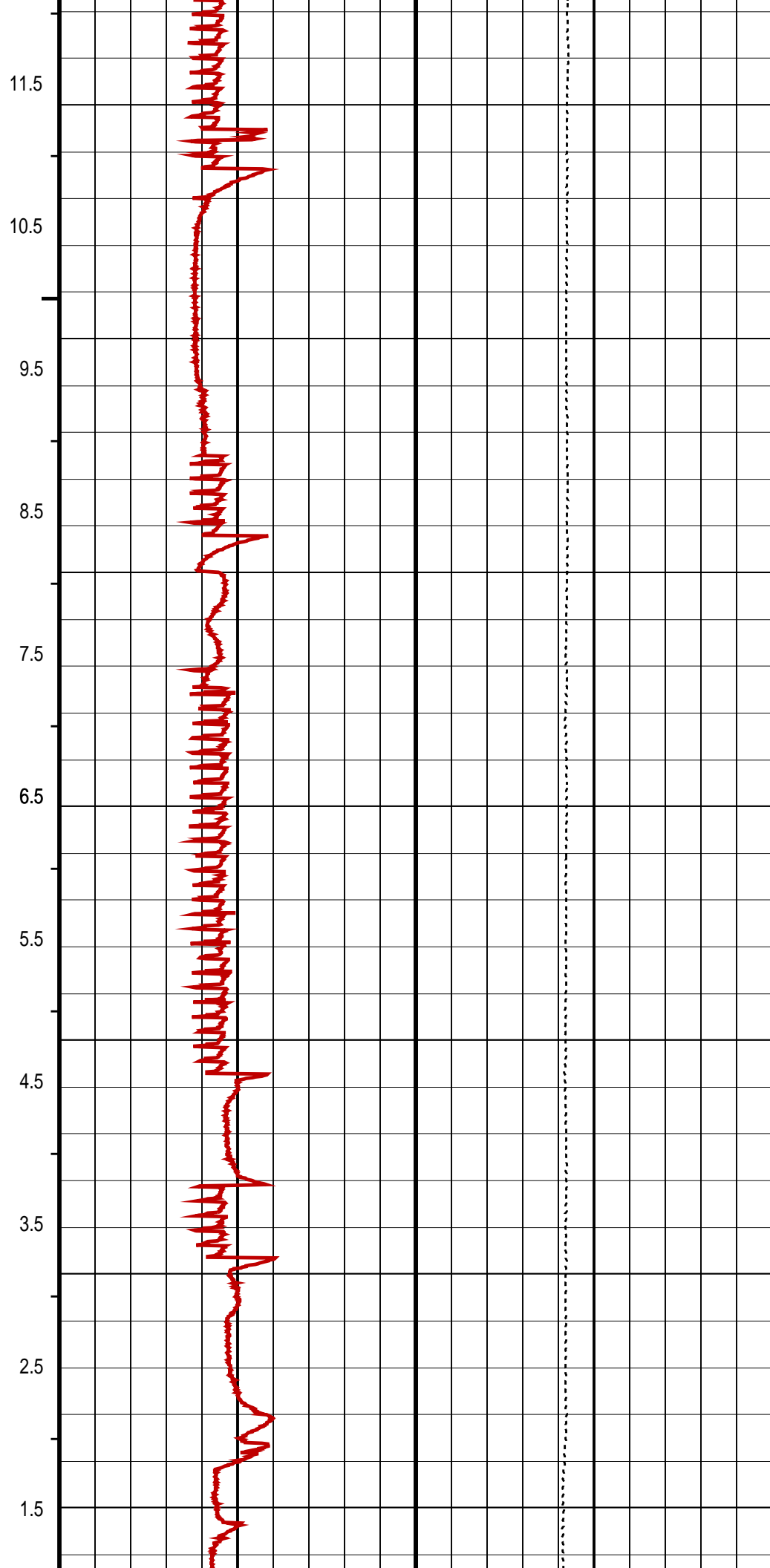
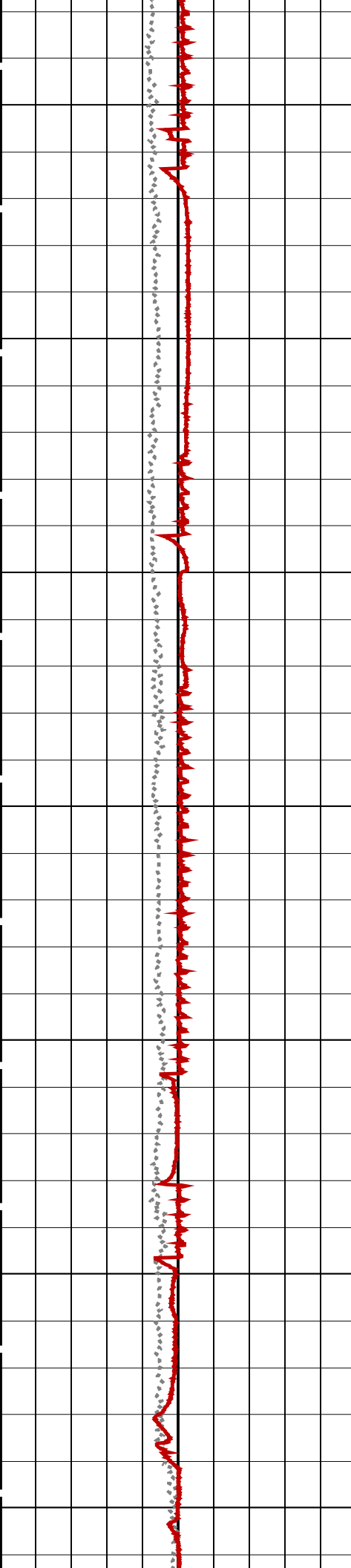




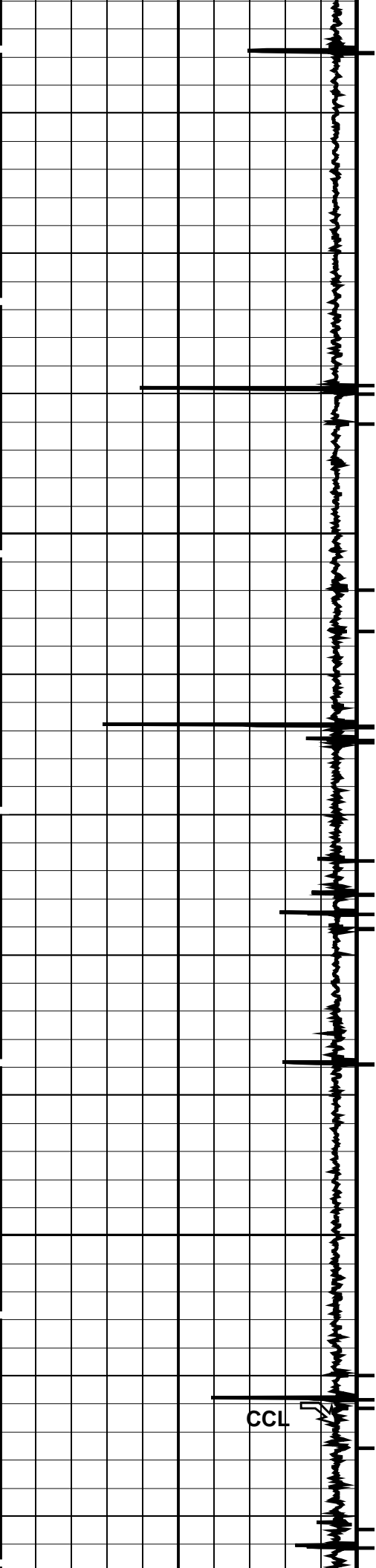






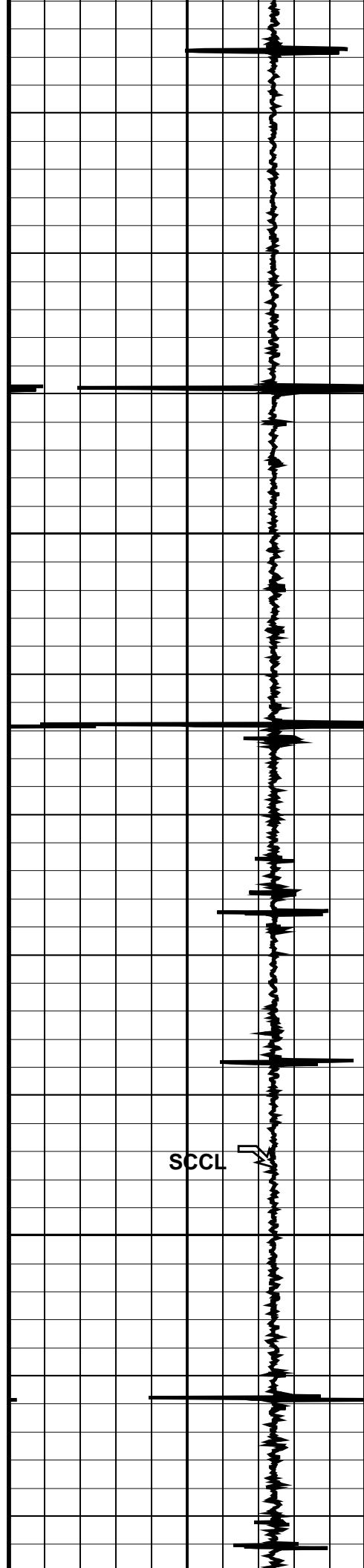






2050

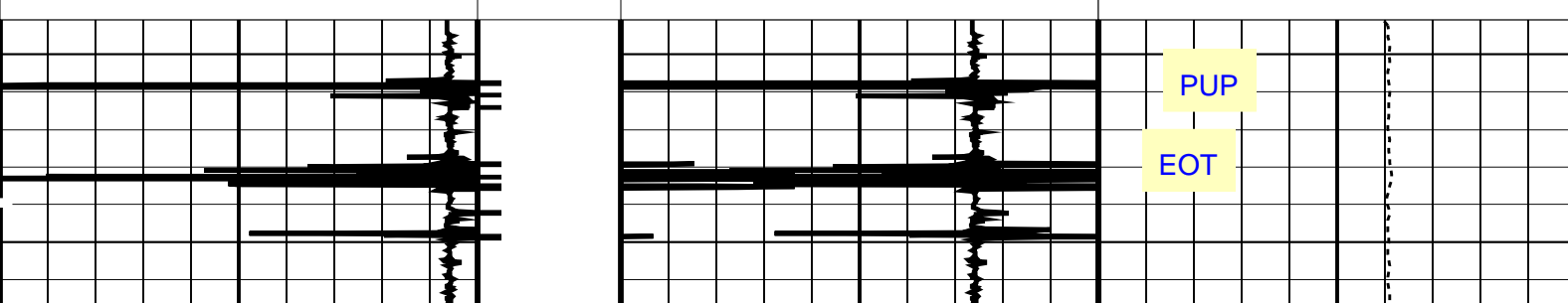
2075

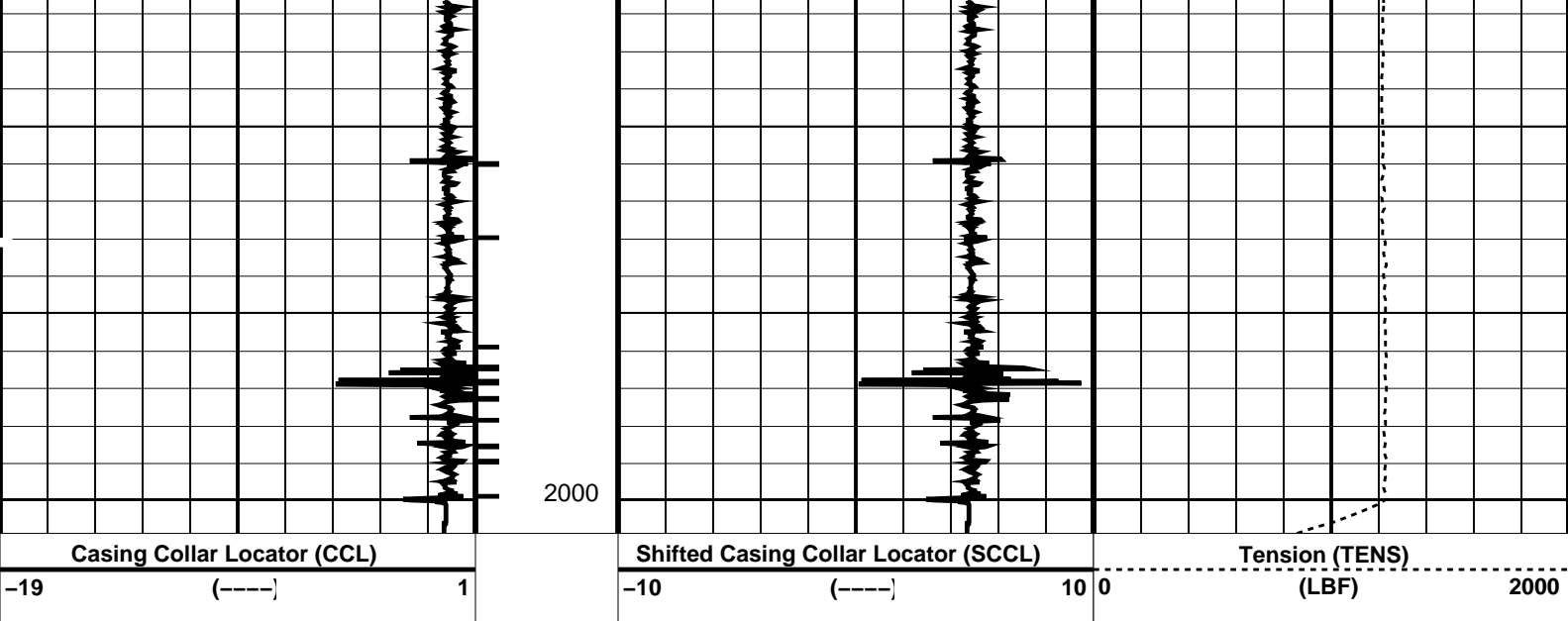


TENS

SCCL

CCL





PIP SUMMARY

Time Mark Every 60 S

Casing Collars

| Parameters                      |  |                       |  |    |
|---------------------------------|--|-----------------------|--|----|
| DLIS Name                       |  | Description           | Value                                    |    |
| CCL-PCCL: Casing Collar Locator |  |                       |  |    |
| CCLD                            |  | CCL reset delay       | 12                                       | IN |
| CCLT                            |  | CCL Detection Level   | 0.3                                      | V  |
| Format: PERFO                   |  | Vertical Scale: 1:200 | Graphics File Created: 07-May-2009 05:45 |    |

| OP System Version: 16C0-147 |          |         |          |
|-----------------------------|----------|---------|----------|
| MCM                         |          |         |          |
| MPEX-DA                     | 16C0-147 | MPSU-CA | 16C0-147 |
| CCL-PCCL                    | 16C0-147 |         |          |

| Output DLIS Files |            |       |          |                   |
|-------------------|------------|-------|----------|-------------------|
| DEFAULT           | CCL_069LUP | FN:68 | PRODUCER | 07-May-2009 05:45 |



Dummy Plug Pass

MAXIS Field Log

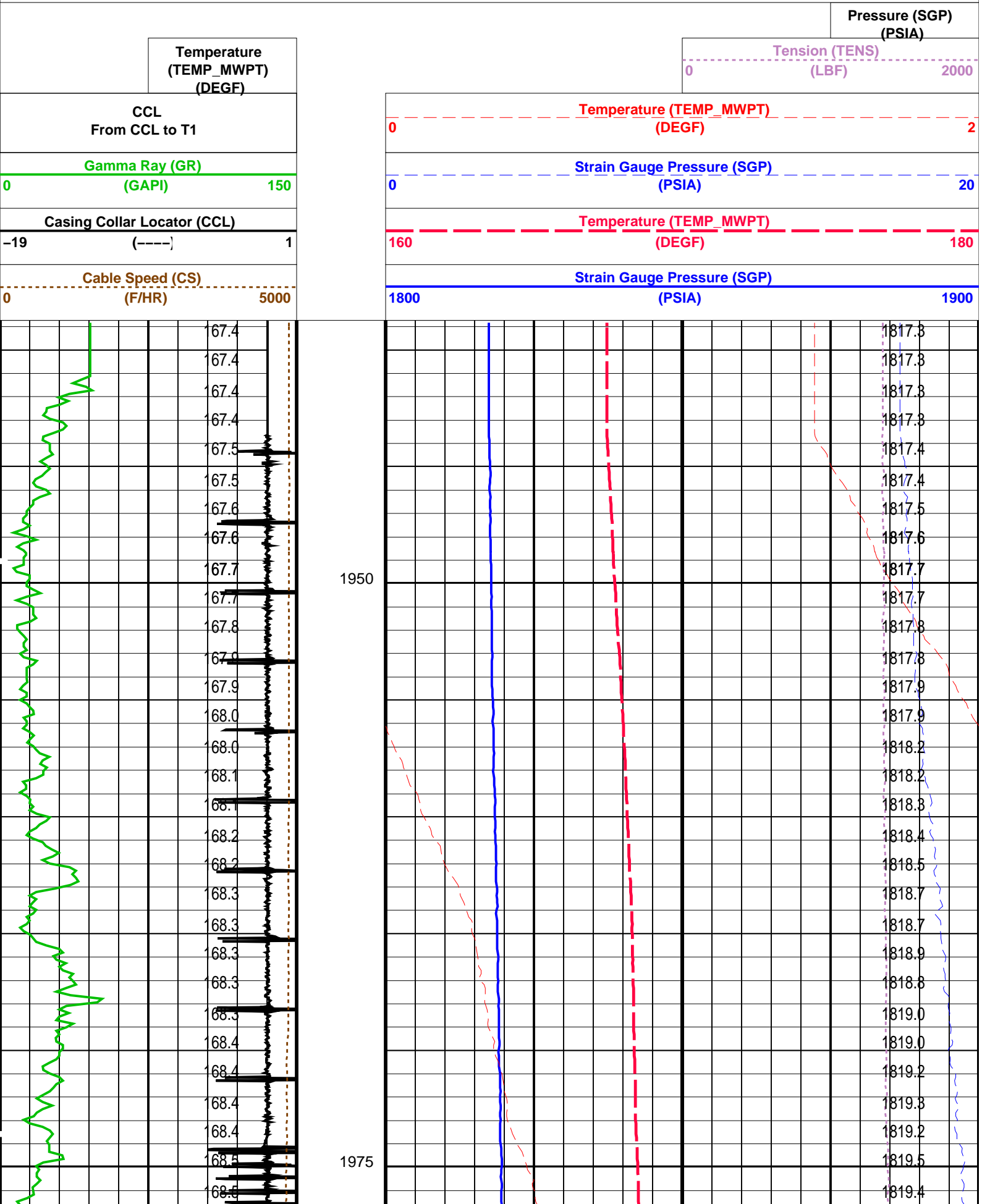
Company: Esso Australia Pty Ltd. Well: A17

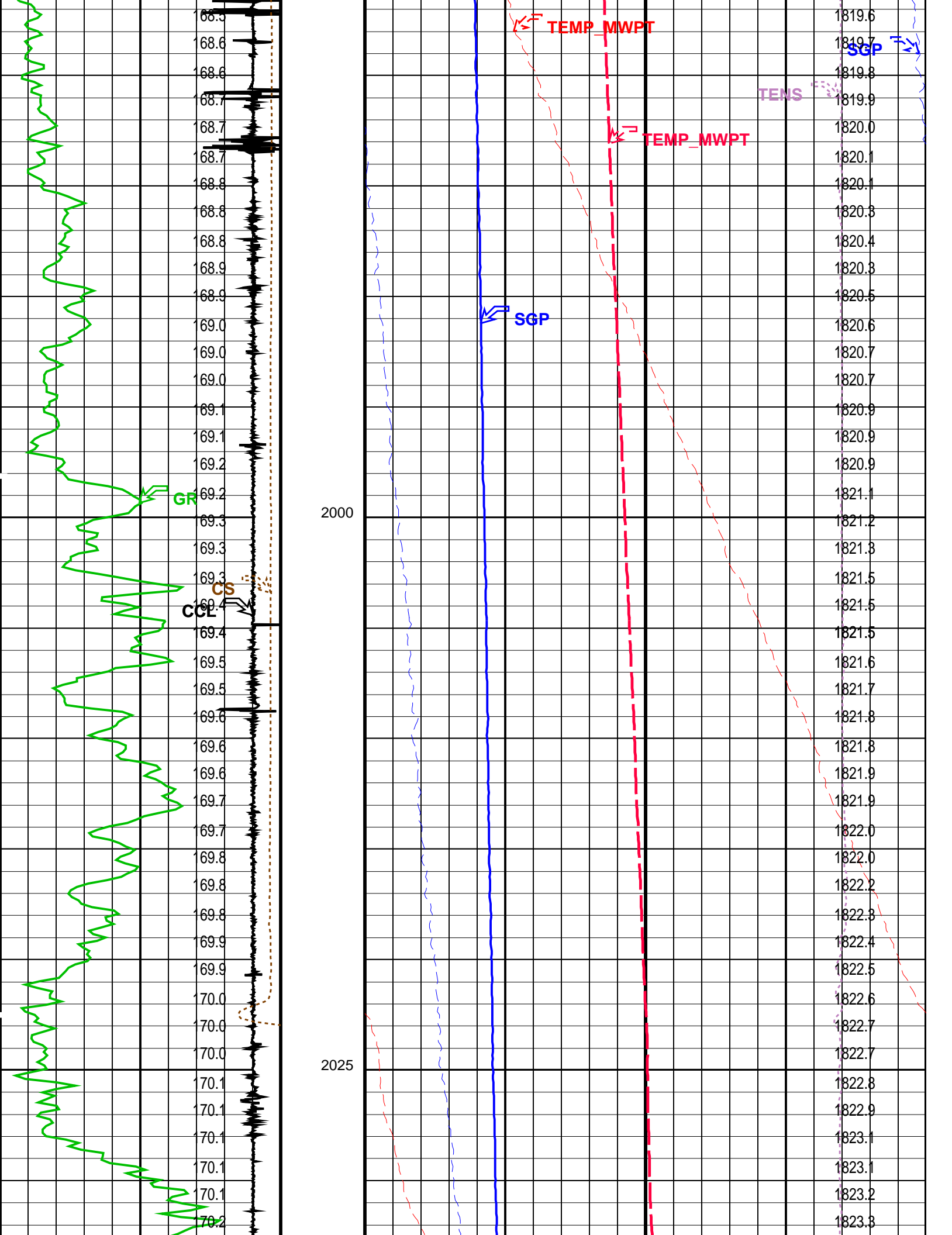
| Input DLIS Files  |              |       |          |                   |          |
|-------------------|--------------|-------|----------|-------------------|----------|
| DEFAULT           | PERFO_060LUP | FN:59 | PRODUCER | 07-May-2009 03:40 | 2153.1 M |
|                   |              |       |          |                   | 1941.3 M |
| Output DLIS Files |              |       |          |                   |          |
| DEFAULT           | PERFO_062PUP | FN:61 | PRODUCER | 07-May-2009 03:55 | 2153.0 M |
|                   |              |       |          |                   | 1938.7 M |

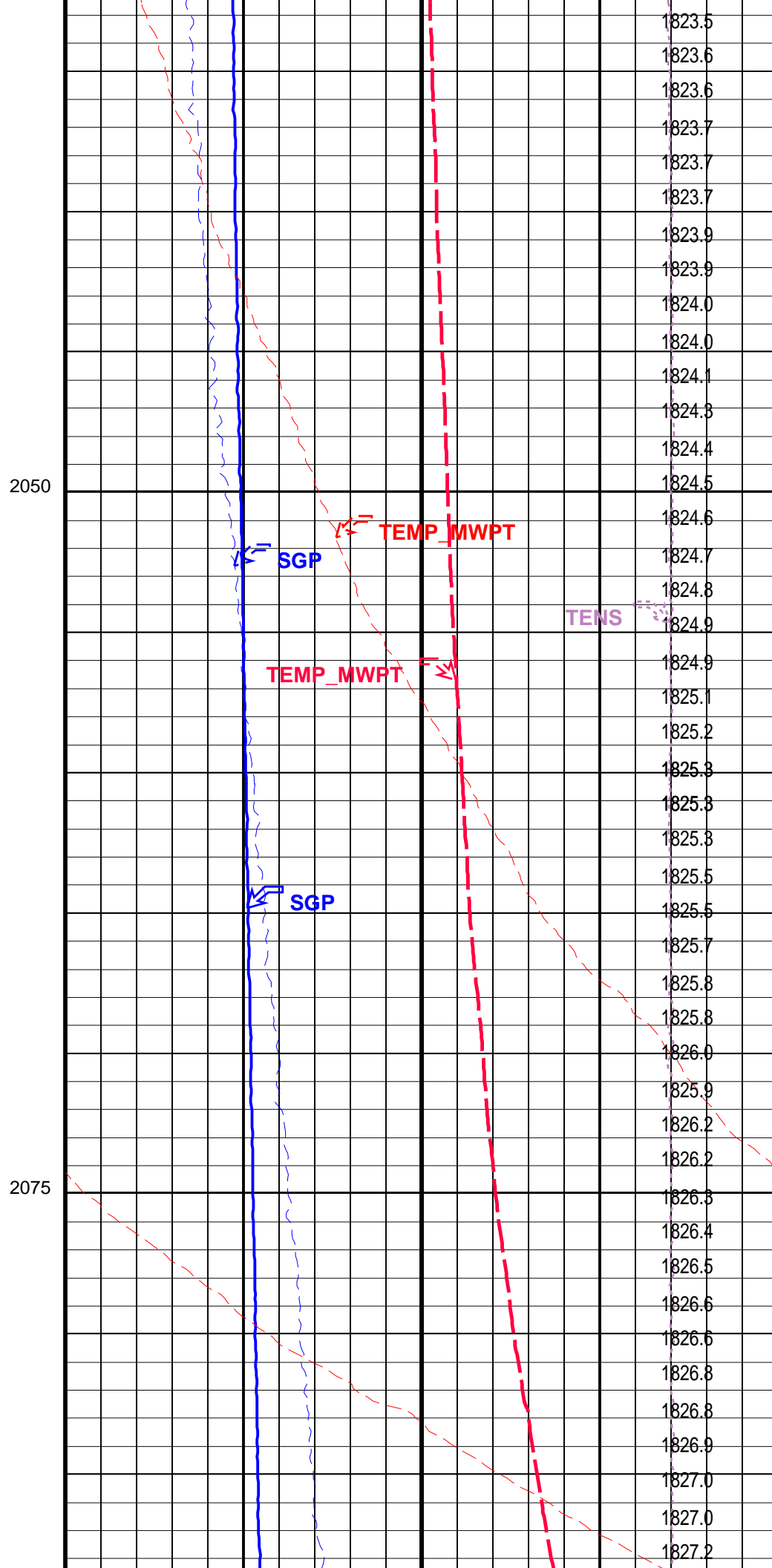
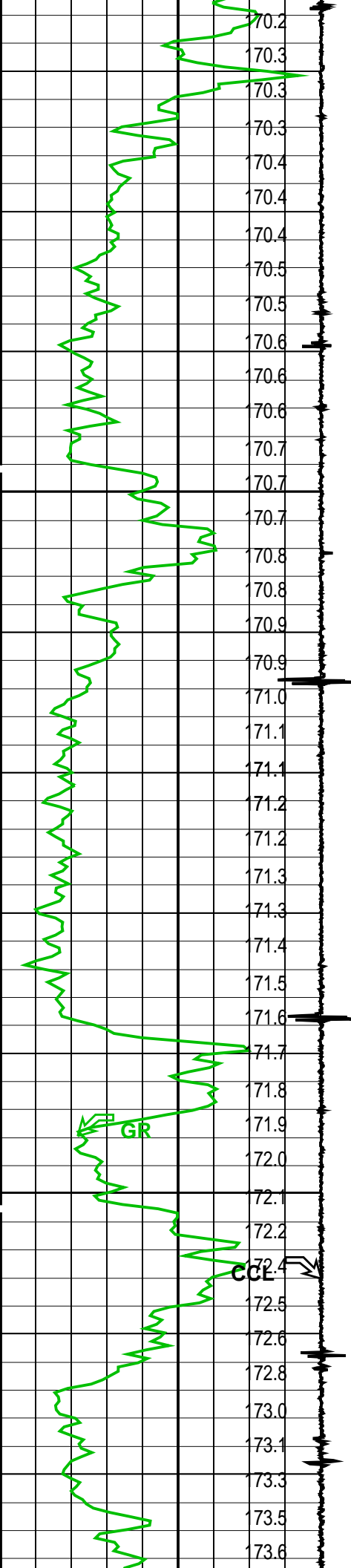
| OP System Version: 16C0-147 |  |  |  |
|-----------------------------|--|--|--|
| MCM                         |  |  |  |

PIP SUMMARY

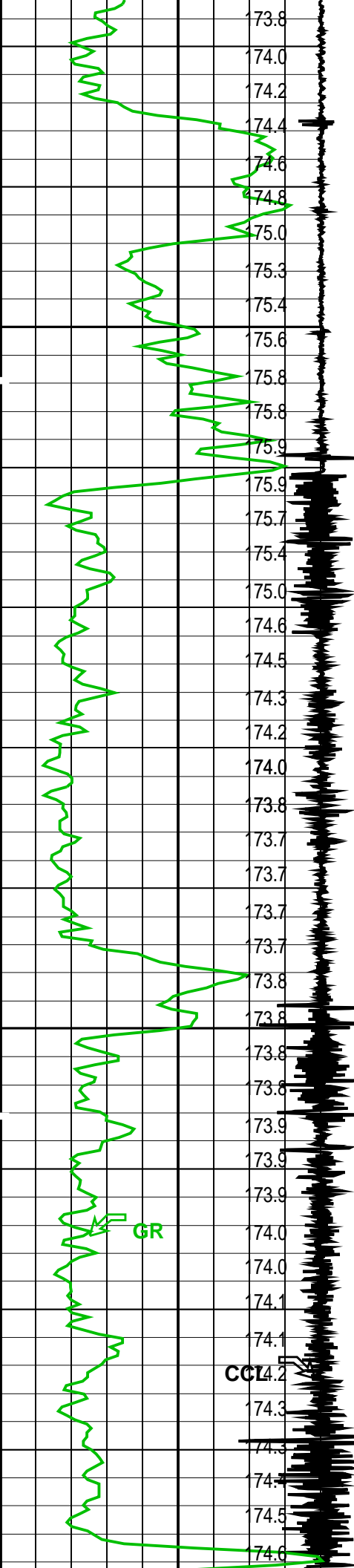
Time Mark Every 60 S





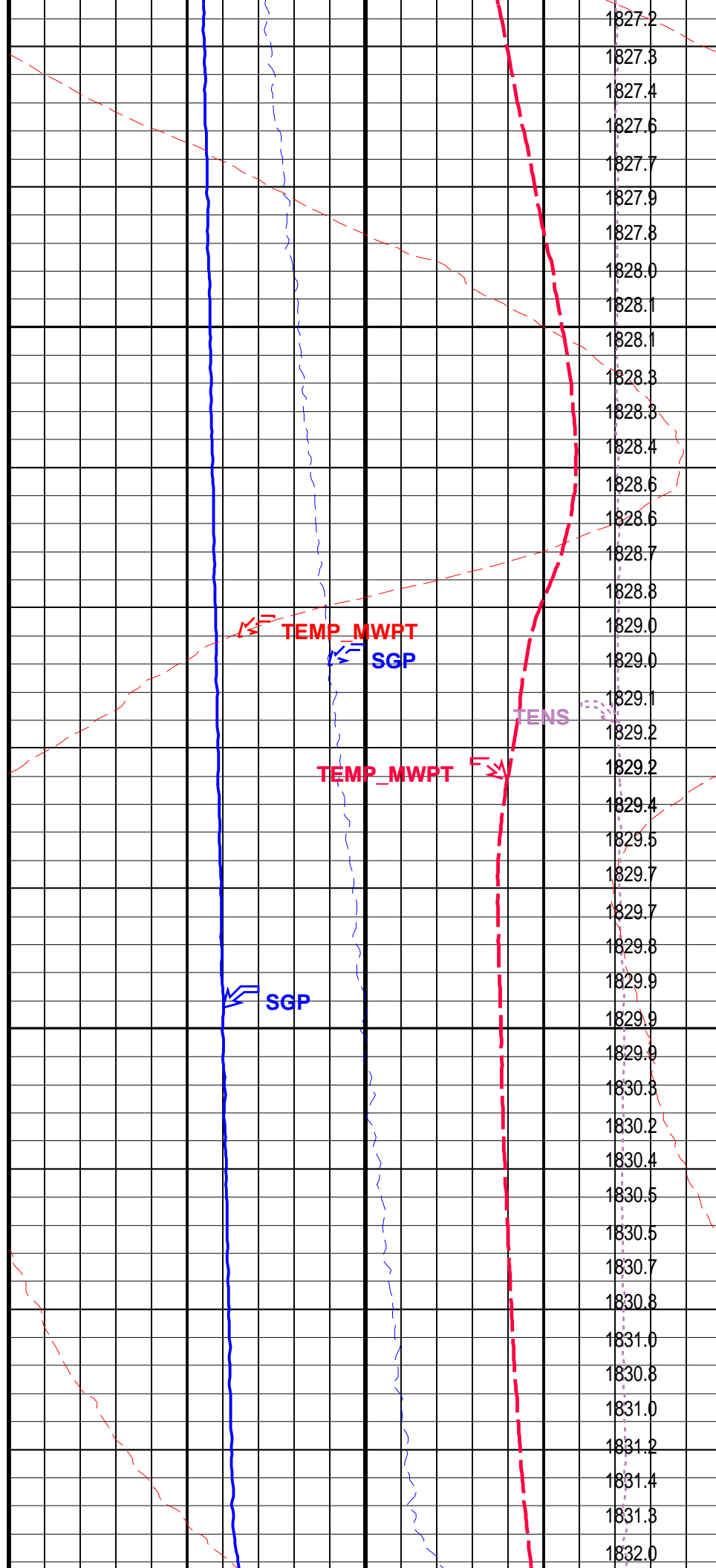


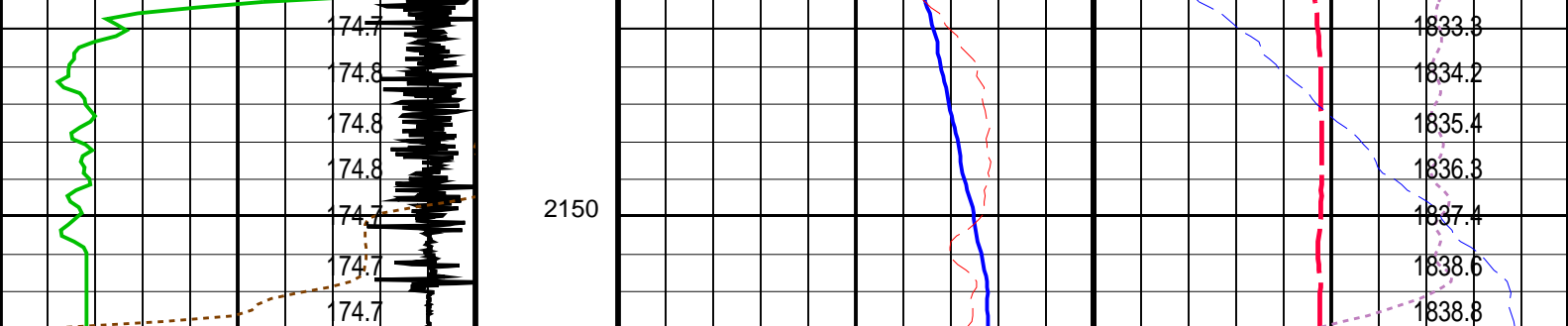




2100

2125





|                                      |  |                                       |  |
|--------------------------------------|--|---------------------------------------|--|
| Cable Speed (CS)<br>(F/HR)           |  | Strain Gauge Pressure (SGP)<br>(PSIA) |  |
| 0 5000                               |  | 1800 1900                             |  |
| Casing Collar Locator (CCL)<br>(---) |  | Temperature (TEMP_MWPT)<br>(DEGF)     |  |
| -19 1                                |  | 160 180                               |  |
| Gamma Ray (GR)<br>(GAPI)             |  | Strain Gauge Pressure (SGP)<br>(PSIA) |  |
| 0 150                                |  | 0 20                                  |  |
| CCL<br>From CCL to T1                |  | Temperature (TEMP_MWPT)<br>(DEGF)     |  |
| 0 2                                  |  | 0 2                                   |  |
| Temperature<br>(TEMP_MWPT)<br>(DEGF) |  | Tension (TENS)<br>(LBF)               |  |
| 0 2000                               |  | 0 2000                                |  |
|                                      |  | Pressure (SGP)<br>(PSIA)              |  |
|                                      |  |                                       |  |

|                      |  |
|----------------------|--|
| PIP SUMMARY          |  |
| Time Mark Every 60 S |  |

| Parameters                                  |  |          |
|---|--|----------|
| DLIS Name                                   | Description                              | Value    |
| MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL |  |          |
| DEVI_FL_CORR                                | Deviation Angle for Flow Line Correction | 0 DEG    |
| FLD   | Flow Line Density                        | 1 G/C3   |
| MWPT_NULL_SOURCE                            | MWPT NULL Temperature Source             | TEMS     |
| MWPT_NULL_TEMP                              | MWPT NULL Temperature                    | 0.0 DEGC |
| System and Miscellaneous                    |  |          |
| DO  | Depth Offset for Playback                | -0.1 M   |
| PP  | Playback Processing                      | NORMAL   |

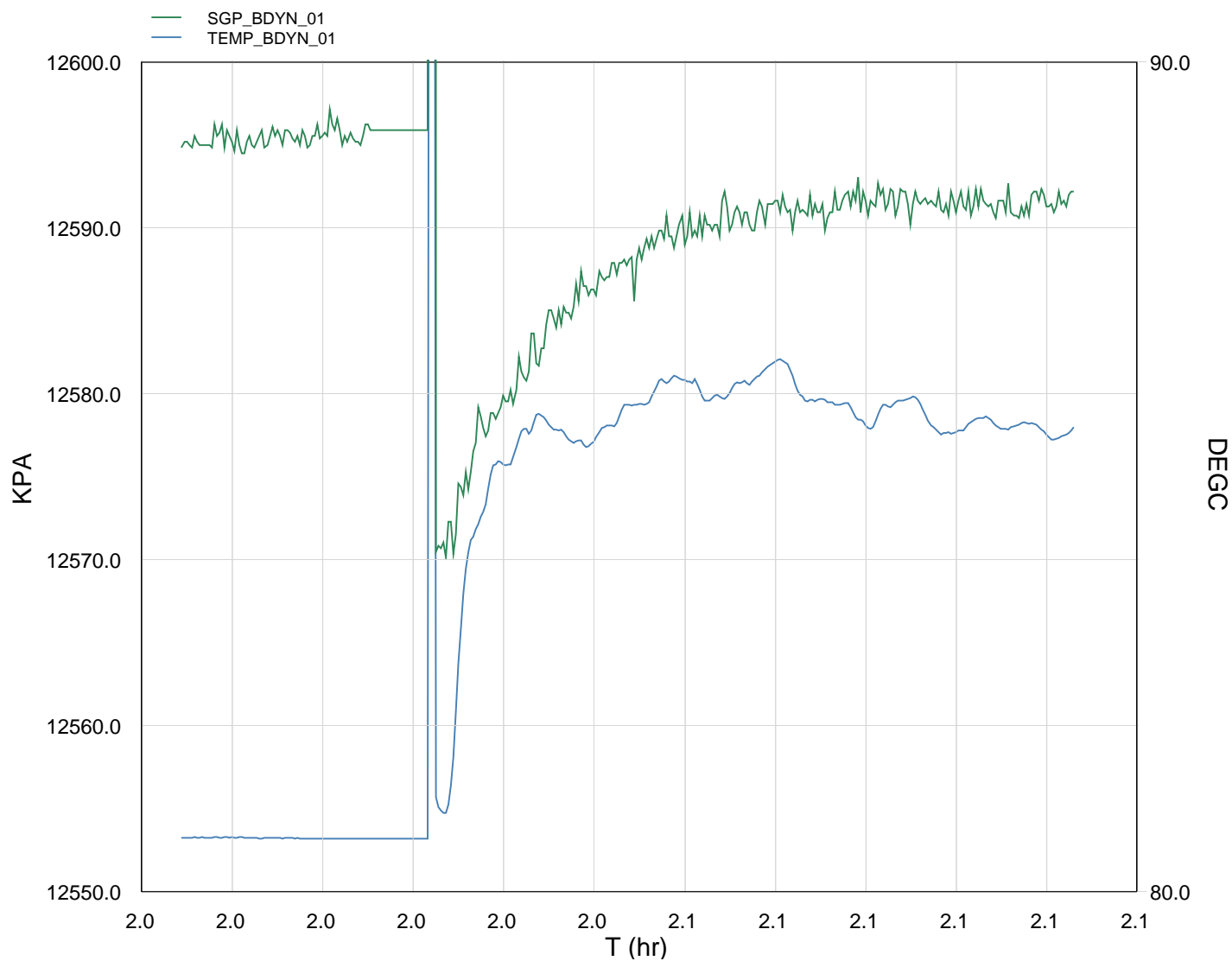
|             |                       |  |
|-------------|-----------------------|--|
| Format: MWP | Vertical Scale: 1:200 | Graphics File Created: 07-May-2009 03:55 |
|-------------|-----------------------|--|

|                             |          |         |          |
|-----------------------------|----------|---------|----------|
| OP System Version: 16C0-147 |          |         |          |
| MCM                         |          |         |          |
| MWP_GUN                     | 16C0-147 | MWPT-CA | 16C0-147 |
| MWGT-AA                     | 16C0-147 |         |          |

| Input DLIS Files  |              |       |          |                   |          |          |
|-------------------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT           | PERFO_060LUP | FN:59 | PRODUCER | 07-May-2009 03:40 | 2153.1 M | 1941.3 M |
| Output DLIS Files |              |       |          |                   |          |          |
| DEFAULT           | PERFO_062PUP | FN:61 | PRODUCER | 07-May-2009 03:55 |          |          |



GUN # 2 Fired @  
2105m to 2110.5m MDKB



| TIME   | KPA        | PSIA      | DEGF     |
|--------|------------|-----------|----------|
| 2430.0 | 12594.8364 | 1826.7307 | 177.1726 |
| 2460.0 | 12595.6046 | 1826.8421 | 177.1668 |
| 2490.0 | 12595.0184 | 1826.7571 | 177.1547 |
| 2520.0 | 12570.9241 | 1823.2625 | 178.0456 |
| 2550.0 | 12580.0249 | 1824.5825 | 185.2763 |
| 2580.0 | 12586.3644 | 1825.5019 | 185.6532 |
| 2610.0 | 12589.3791 | 1825.9392 | 187.1298 |
| 2640.0 | 12591.1029 | 1826.1892 | 187.0356 |
| 2670.0 | 12591.0543 | 1826.1821 | 186.6774 |
| 2700.0 | 12591.5236 | 1826.2502 | 186.5446 |
| 2730.0 | 12591.4668 | 1826.2420 | 186.0092 |
| 2760.0 | 12591.4581 | 1826.2407 | 186.0913 |

GUN FIRED

## MAXIS Field Log

Well: A17

## Output DLIS Files

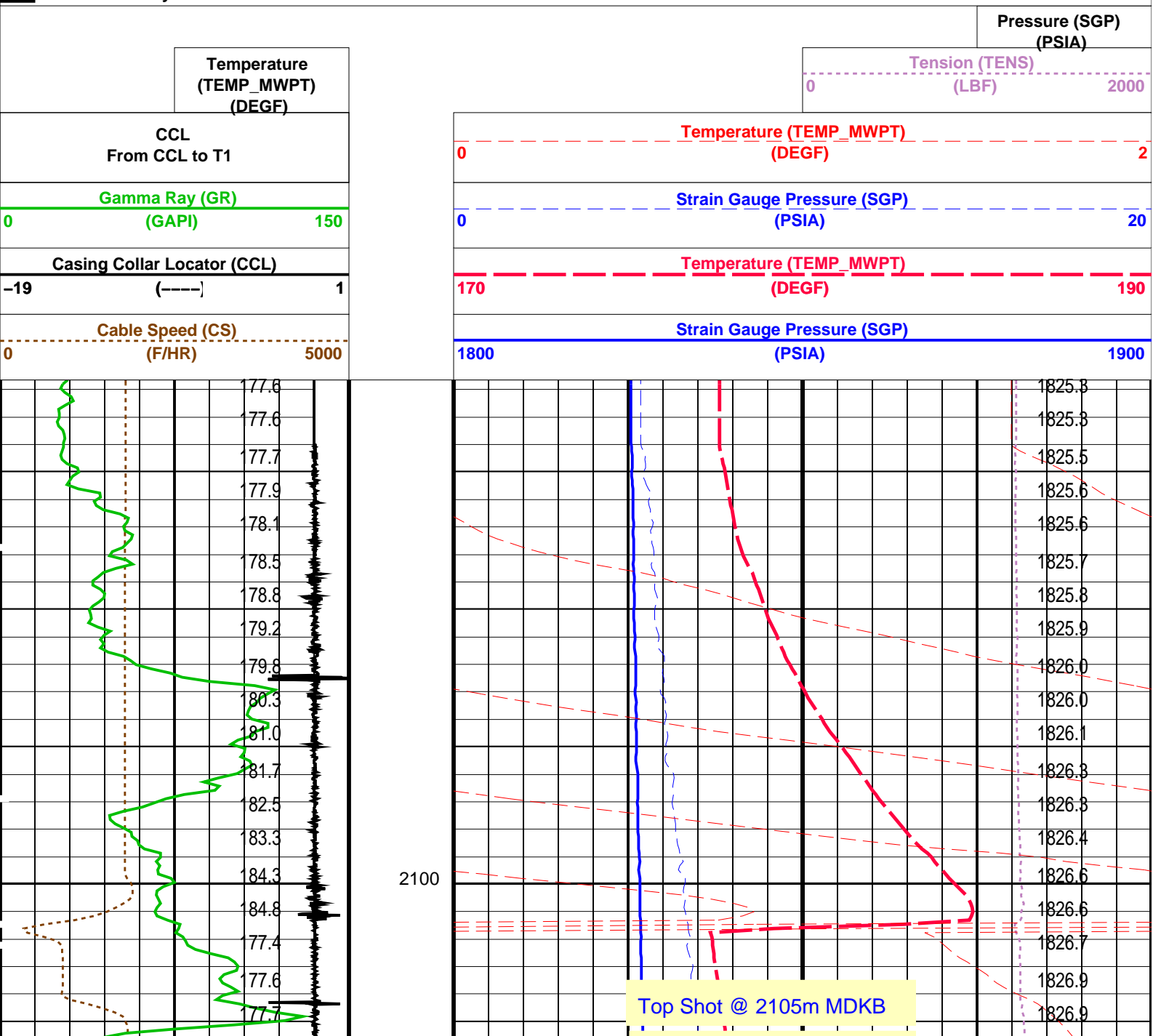
|         |              |       |          |                   |          |          |
|---------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_055LUP | FN:54 | PRODUCER | 07-May-2009 01:53 | 2128.0 M | 2081.6 M |
|---------|--------------|-------|----------|-------------------|----------|----------|

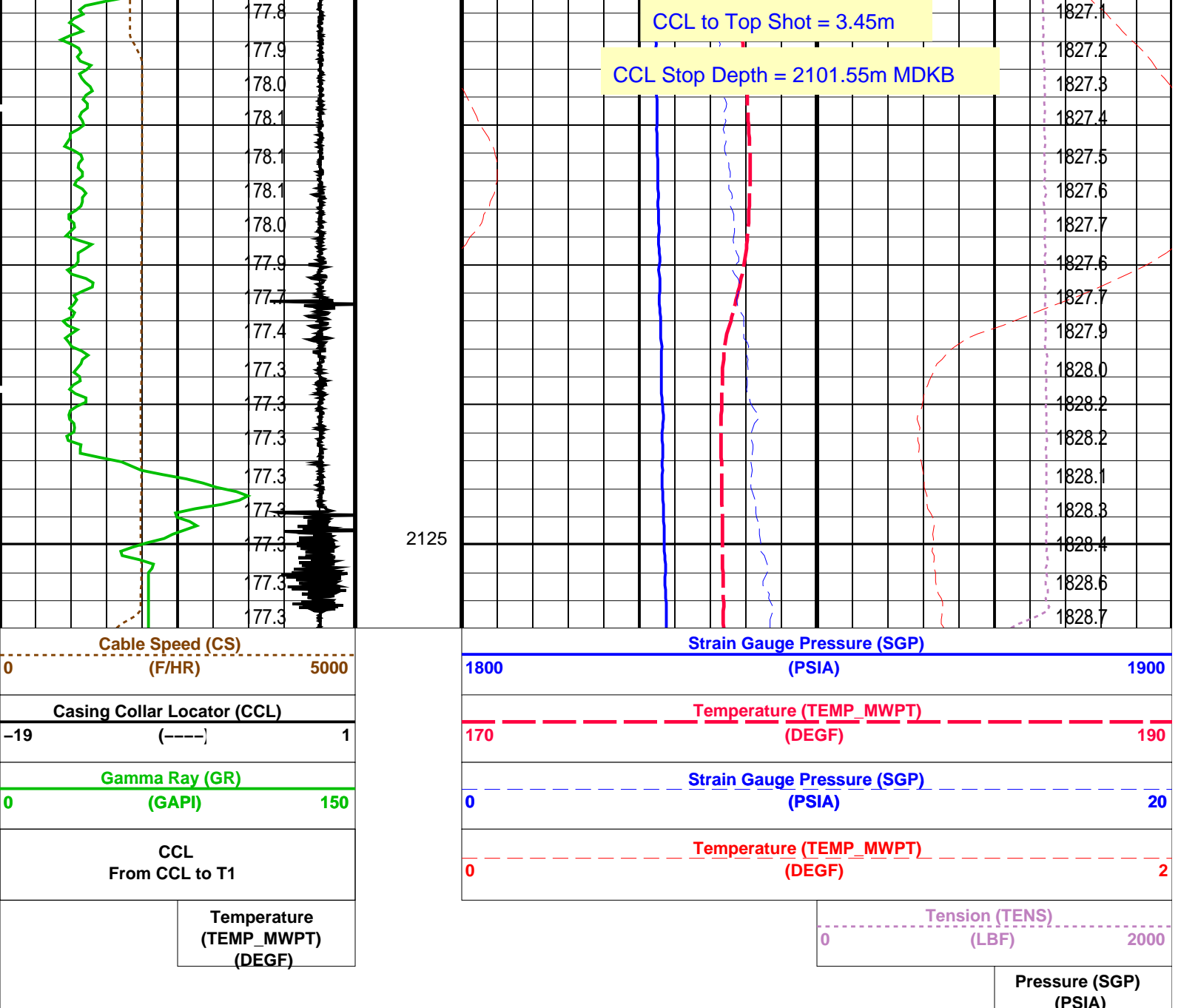
**OP System Version: 16C0-147**  
**MCM**

|         |          |         |          |
|---------|----------|---------|----------|
| MWP_GUN | 16C0-147 | MWPT-CA | 16C0-147 |
| MWGT-AA | 16C0-147 |         |          |

## PIP SUMMARY

**Time Mark Every 60 S**





|   |  |  |                            |
|---|--|--|----------------------------|
| PIP SUMMARY                                 |  |  |                            |
| Time Mark Every 60 S                        |  |  |                            |
| Parameters                                  |  |  |                            |
| DLIS Name                                   | Description                              | Value                                    |                            |
| MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL |  |  |                            |
| DEVI_FL_CORR                                | Deviation Angle for Flow Line Correction | 0  | DEG                        |
| FLD   | Flow Line Density                        | 1  | G/C3                       |
| MWPT_NULL_SOURCE                            | MWPT NULL Temperature Source             | TEMS                                     |                            |
| MWPT_NULL_TEMP                              | MWPT NULL Temperature                    | 0.0                                      | DEGC                       |
| Format: MWP                                 | Vertical Scale: 1:200                    | Graphics File Created: 07-May-2009 01:53 |                            |
| OP System Version: 16C0-147                 |  |  |                            |
| MCM   |  |  |                            |
| MWP_GUN                                     | 16C0-147                                 | MWPT-CA                                  | 16C0-147                   |
| MWGT-AA                                     | 16C0-147                                 |  |                            |
| Output DLIS Files                           |  |  |                            |
| DEFAULT                                     | PERFO_055LUP                             | FN:54                                    | PRODUCER 07-May-2009 01:53 |

Company: Esso Australia Pty Ltd.

Well: A17

## Output DLIS Files

DEFAULT

PERFO\_054LUP

FN:53

PRODUCER

07-May-2009 01:44

2127.2 M

2087.3 M

## OP System Version: 16C0-147

MCM

MWP\_GUN 16C0-147

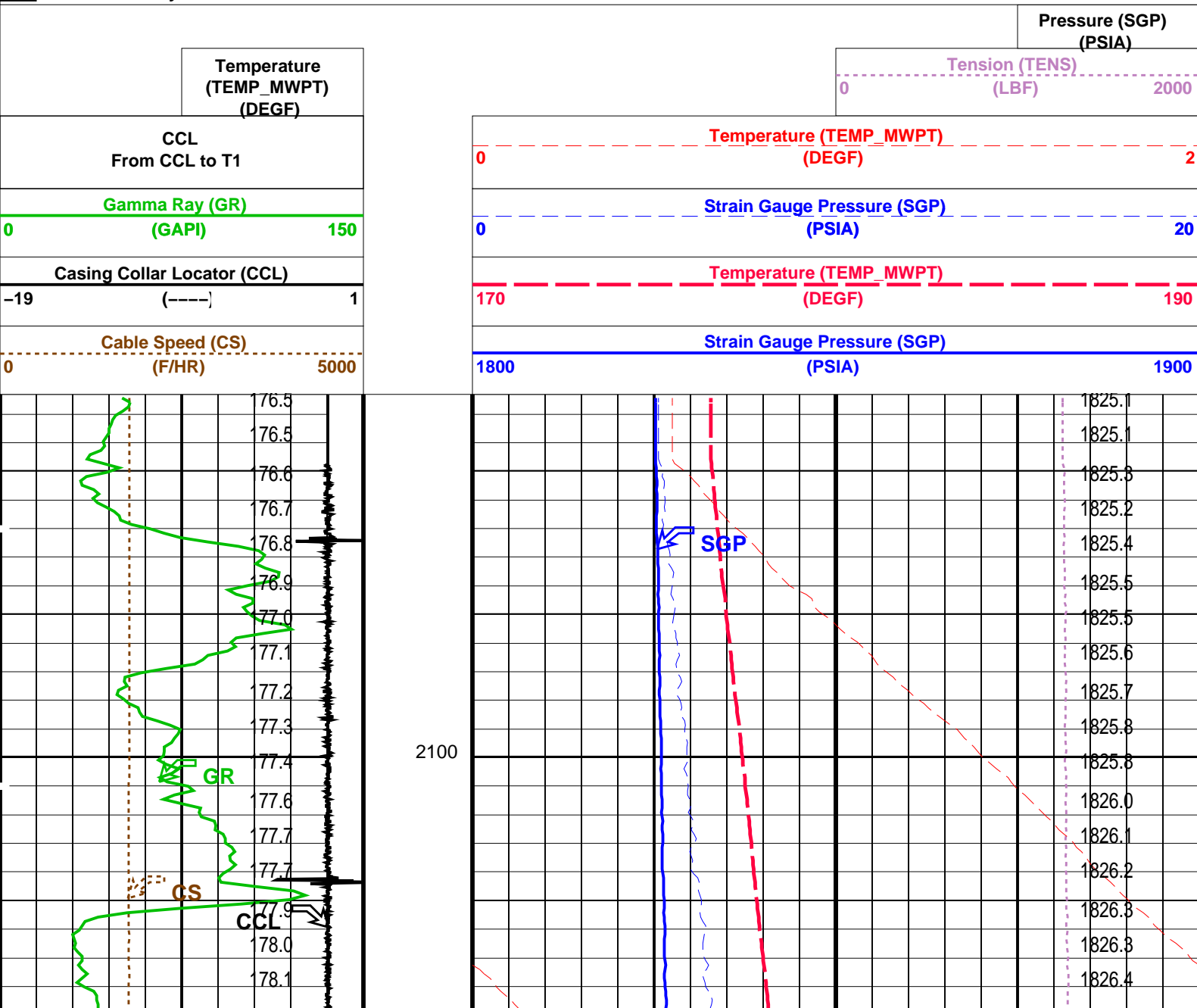
MWPT-CA

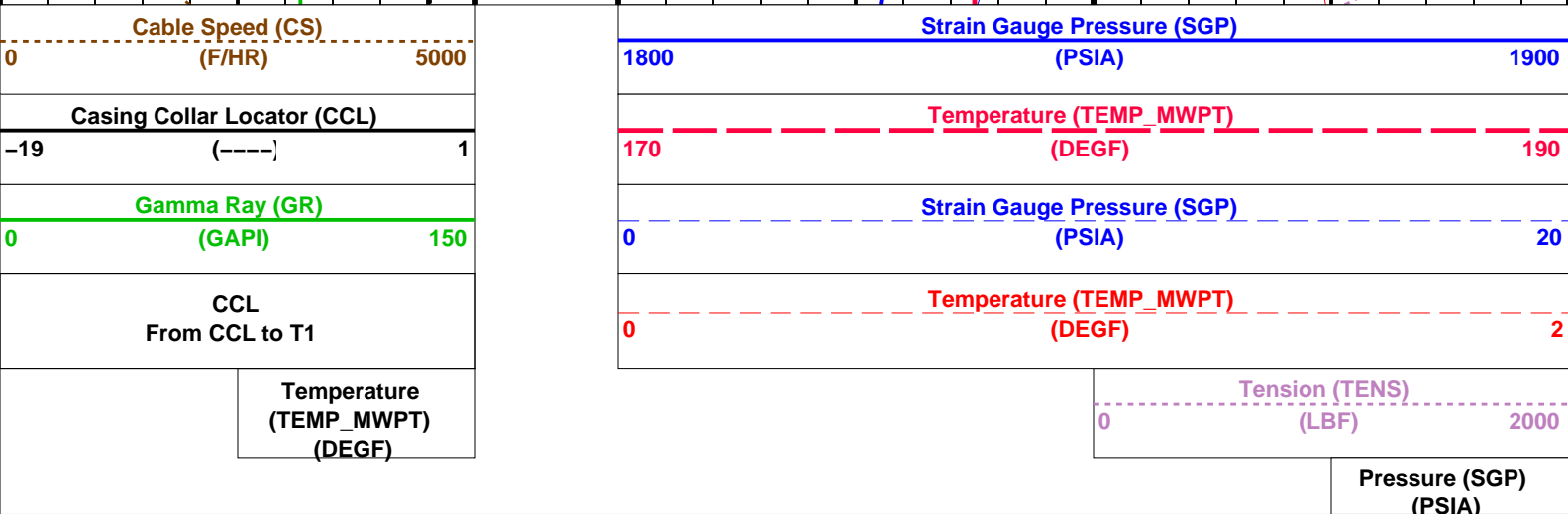
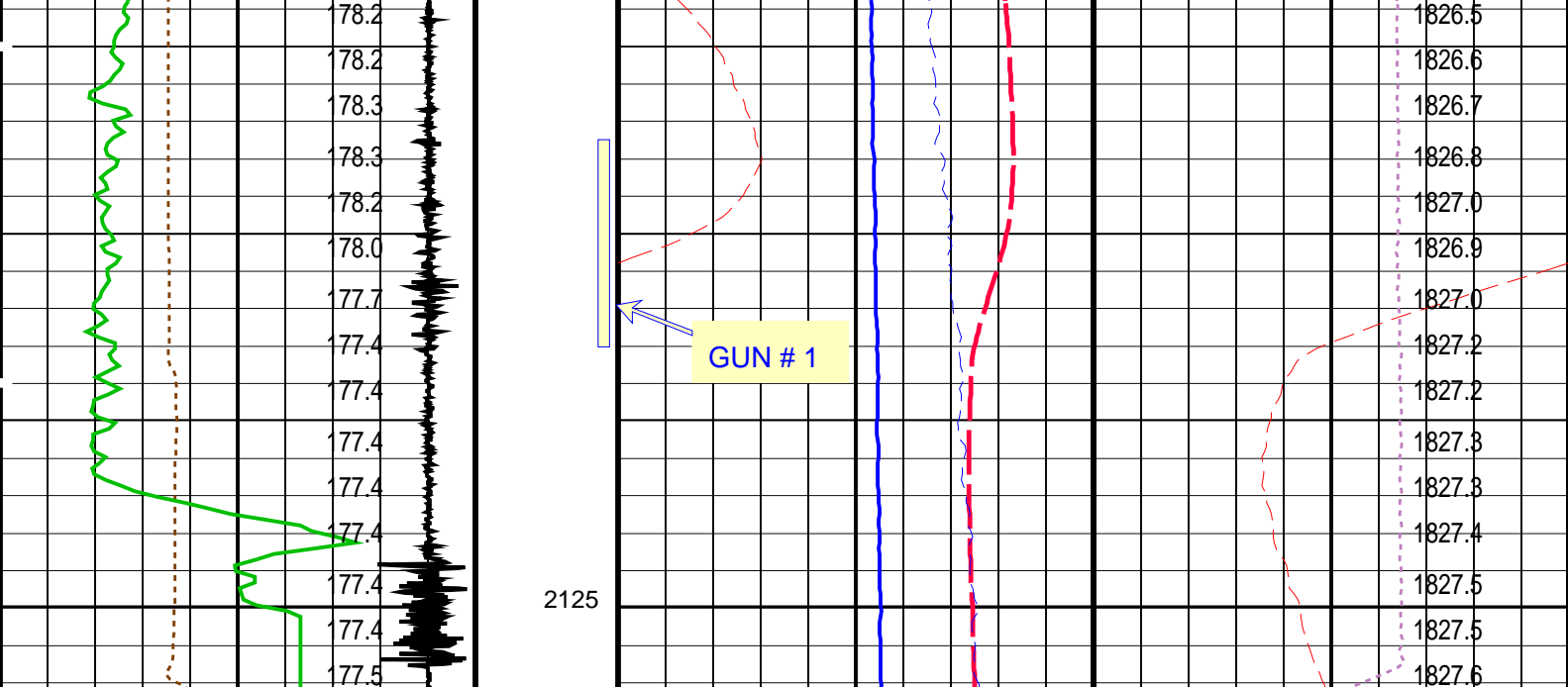
16C0-147

MWGT-AA 16C0-147

## PIP SUMMARY

Time Mark Every 60 S





PIP SUMMARY

Time Mark Every 60 S

| Parameters                                  |  |       |      |
|---|--|-------|------|
| DLIS Name                                   | Description                              | Value |      |
| MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL |  |       |      |
| DEVI_FL_CORR                                | Deviation Angle for Flow Line Correction | 0     | DEG  |
| FLD   | Flow Line Density                        | 1     | G/C3 |
| MWPT_NULL_SOURCE                            | MWPT NULL Temperature Source             | TEMS  |      |
| MWPT_NULL_TEMP                              | MWPT NULL Temperature                    | 0.0   | DEGC |

Format: MWP Vertical Scale: 1:200 Graphics File Created: 07-May-2009 01:44

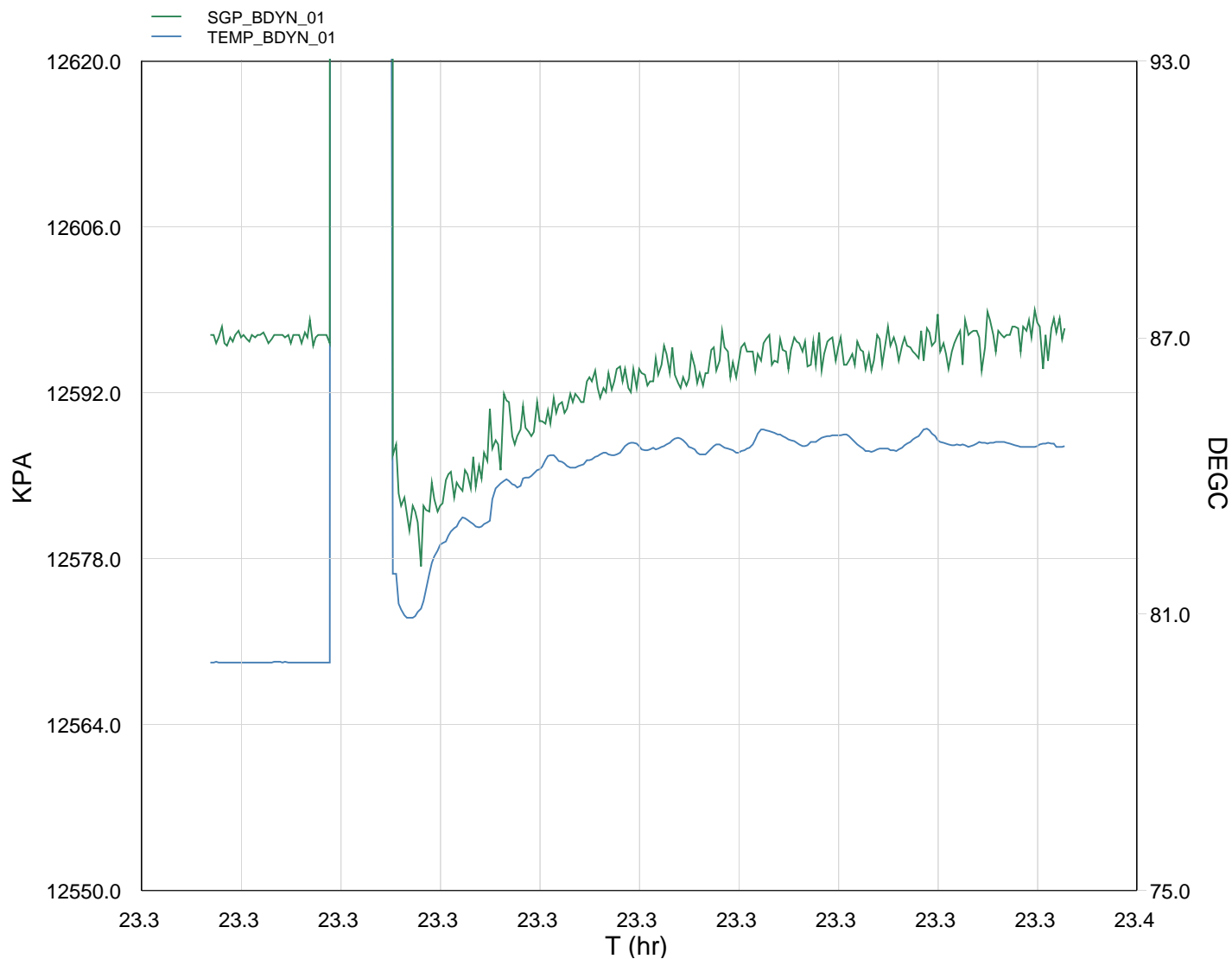
| OP System Version: 16C0-147 |          |         |          |
|-----------------------------|----------|---------|----------|
| MCM                         |          |         |          |
| MWP_GUN                     | 16C0-147 | MWPT-CA | 16C0-147 |
| MWGT-AA                     | 16C0-147 |         |          |

| Output DLIS Files |              |       |                            |
|-------------------|--------------|-------|----------------------------|
| DEFAULT           | PERFO_054LUP | FN:53 | PRODUCER 07-May-2009 01:44 |



GUN # 1 Fired @  
2112.5m to 2118m MDKB

MAXIS Field Log



| TIME   | KPA        | PSIA      | DEGF     |
|--------|------------|-----------|----------|
| 2100.0 | 12513.3574 | 1814.9131 | 174.7668 |
| 2130.0 | 12596.6376 | 1826.9919 | 175.9219 |
| 2160.0 | 35710.5186 | 5179.3774 | 461.2928 |
| 2190.0 | 12577.9678 | 1824.2841 | 178.0657 |
| 2220.0 | 12591.9921 | 1826.3182 | 183.0295 |
| 2250.0 | 12592.2008 | 1826.3484 | 183.8106 |
| 2280.0 | 12593.3801 | 1826.5195 | 184.5240 |
| 2310.0 | 12595.3927 | 1826.8114 | 184.4555 |
| 2340.0 | 12595.6192 | 1826.8442 | 184.7906 |
| 2370.0 | 12595.3276 | 1826.8019 | 184.7822 |
| 2400.0 | 12597.4393 | 1827.1082 | 184.5151 |

Gun Fired



Company: Esso Australia Pty Ltd.

Well: A17

## Output DLIS Files

DEFAULT PERFO\_043LUP FN:42 PRODUCER 06-May-2009 23:03 2128.9 M 2086.8 M

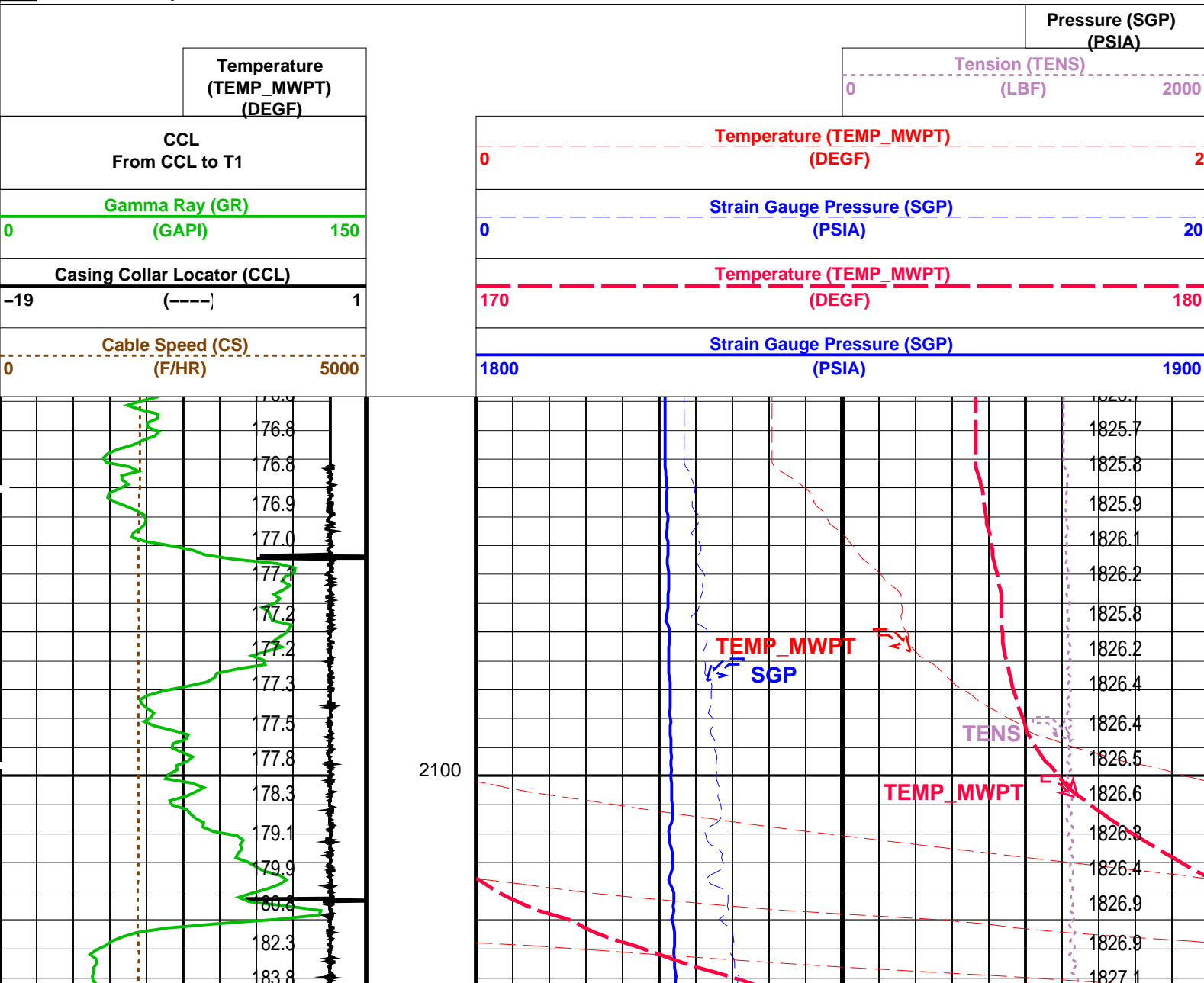
## OP System Version: 16C0-147

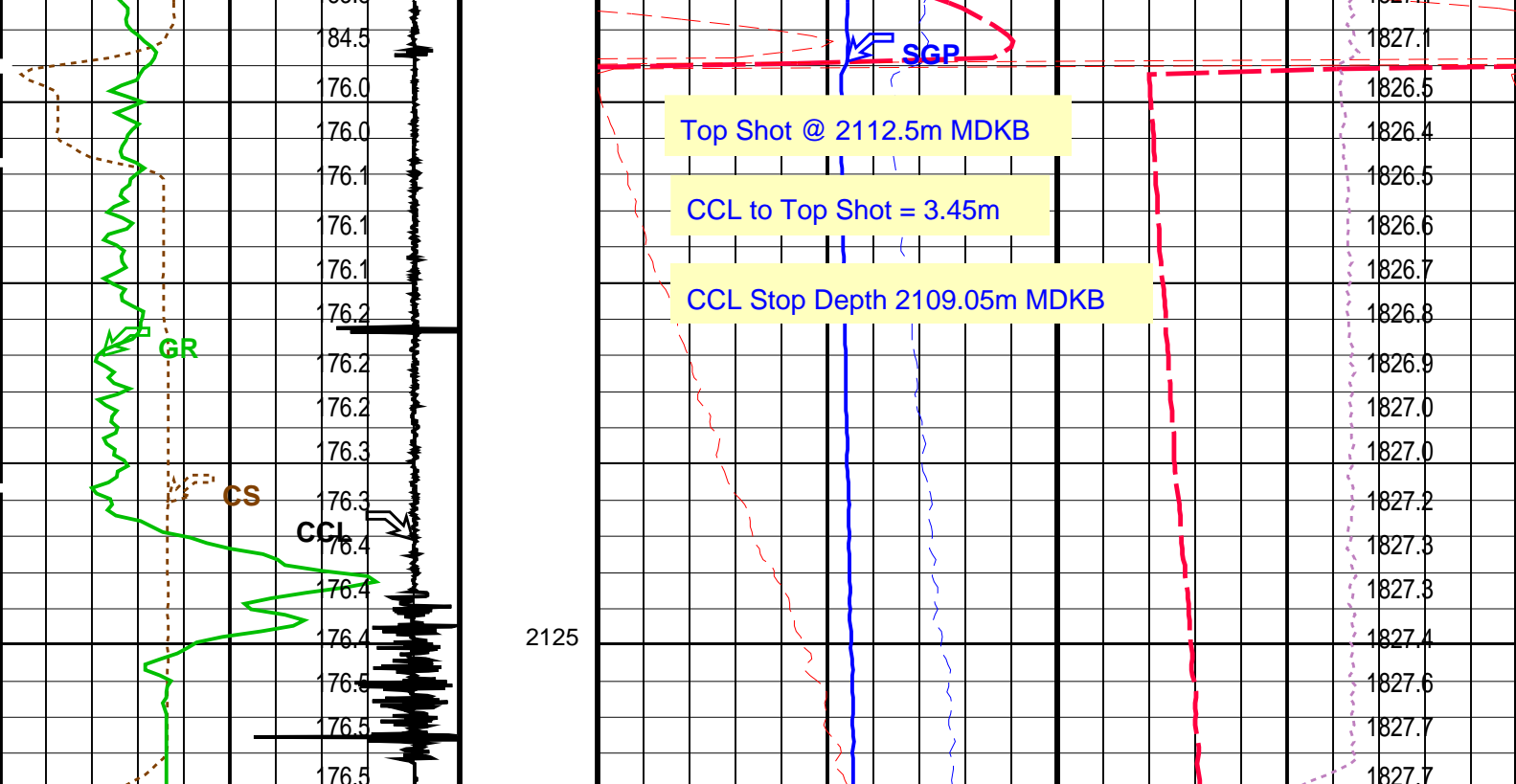
MCM

MWP\_GUN 16C0-147 MWPT-CA 16C0-147  
MWGT-AA 16C0-147

## PIP SUMMARY

Time Mark Every 60 S





|                                       |      |                                       |      |
|---------------------------------------|------|---------------------------------------|------|
| Cable Speed (CS)<br>(F/HR)            |      | Strain Gauge Pressure (SGP)<br>(PSIA) |      |
| 0                                     | 5000 | 1800                                  | 1900 |
| Casing Collar Locator (CCL)<br>(----) |      | Temperature (TEMP_MWPT)<br>(DEGF)     |      |
| -19                                   | 1    | 170                                   | 180  |
| Gamma Ray (GR)<br>(GAPI)              |      | Strain Gauge Pressure (SGP)<br>(PSIA) |      |
| 0                                     | 150  | 0                                     | 20   |
| CCL<br>From CCL to T1                 |      | Temperature (TEMP_MWPT)<br>(DEGF)     |      |
| Temperature<br>(TEMP_MWPT)<br>(DEGF)  |      | Tension (TENS)<br>(LBF)               |      |
|                                       |      | 0                                     | 2000 |
|                                       |      | Pressure (SGP)<br>(PSIA)              |      |

PIP SUMMARY

Time Mark Every 60 S

| Parameters                                  |  |          |
|---|--|----------|
| DLIS Name                                   | Description                              | Value    |
| MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL |  |          |
| DEVI_FL_CORR                                | Deviation Angle for Flow Line Correction | 0 DEG    |
| FLD   | Flow Line Density                        | 1 G/C3   |
| MWPT_NULL_SOURCE                            | MWPT NULL Temperature Source             | TEMS     |
| MWPT_NULL_TEMP                              | MWPT NULL Temperature                    | 0.0 DEGC |

Format: MWP Vertical Scale: 1:200 Graphics File Created: 06-May-2009 23:03

|                             |          |         |          |
|-----------------------------|----------|---------|----------|
| OP System Version: 16C0-147 |          |         |          |
| MCM                         |          |         |          |
| MWP_GUN                     | 16C0-147 | MWPT-CA | 16C0-147 |
| MWGT-AA                     | 16C0-147 |         |          |

| Output DLIS Files |              |       |                            |
|-------------------|--------------|-------|----------------------------|
| DEFAULT           | PERFO_043LUP | FN:42 | PRODUCER 06-May-2009 23:03 |

Company: Esso Australia Pty Ltd.

Well: A17

## Output DLIS Files

DEFAULT

PERFO\_042LUP

FN:41

PRODUCER

06-May-2009 22:56

2126.3 M

2087.4 M

## OP System Version: 16C0-147

MCM

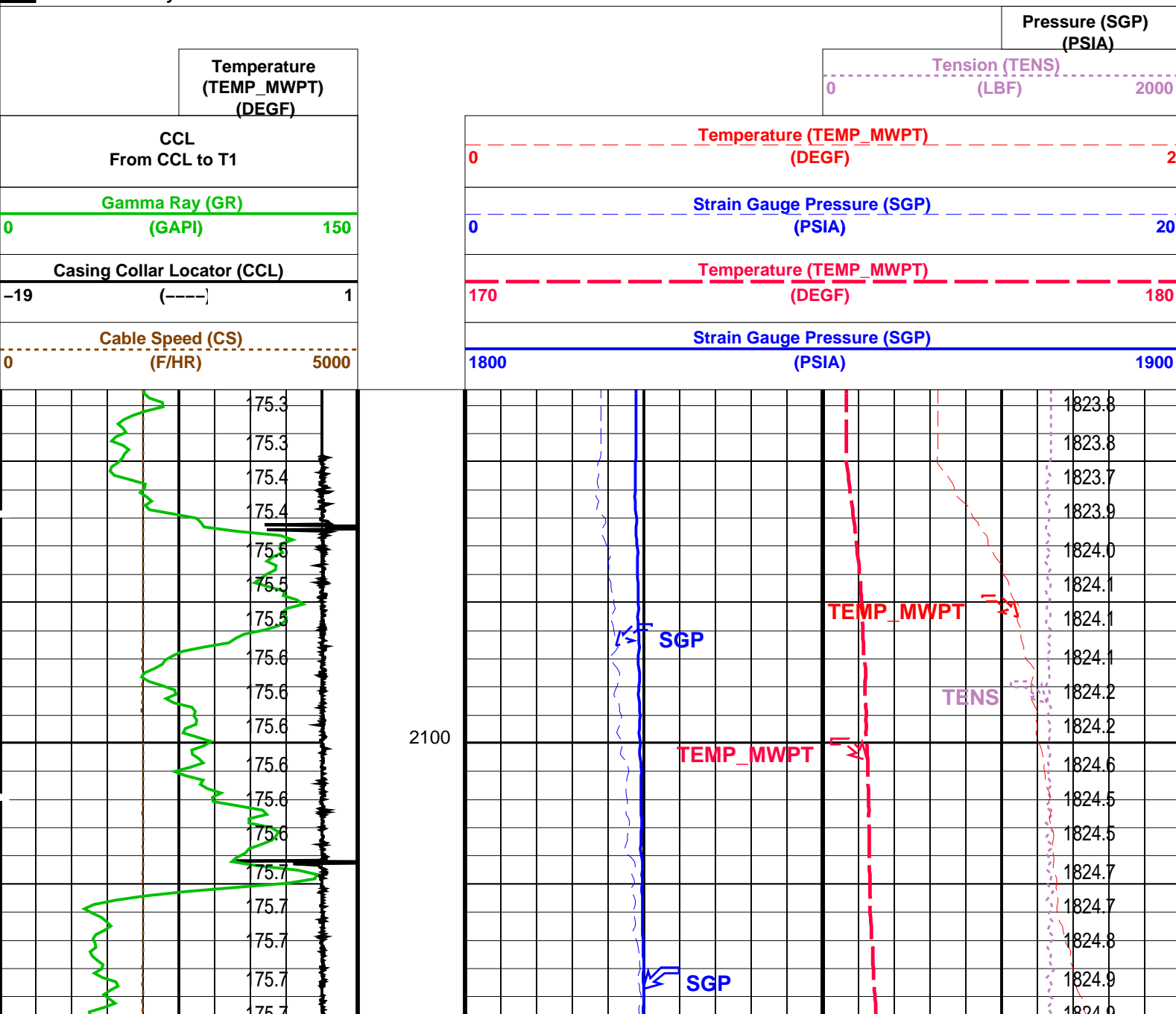
MWP\_GUN  
MWGT-AA16C0-147  
16C0-147

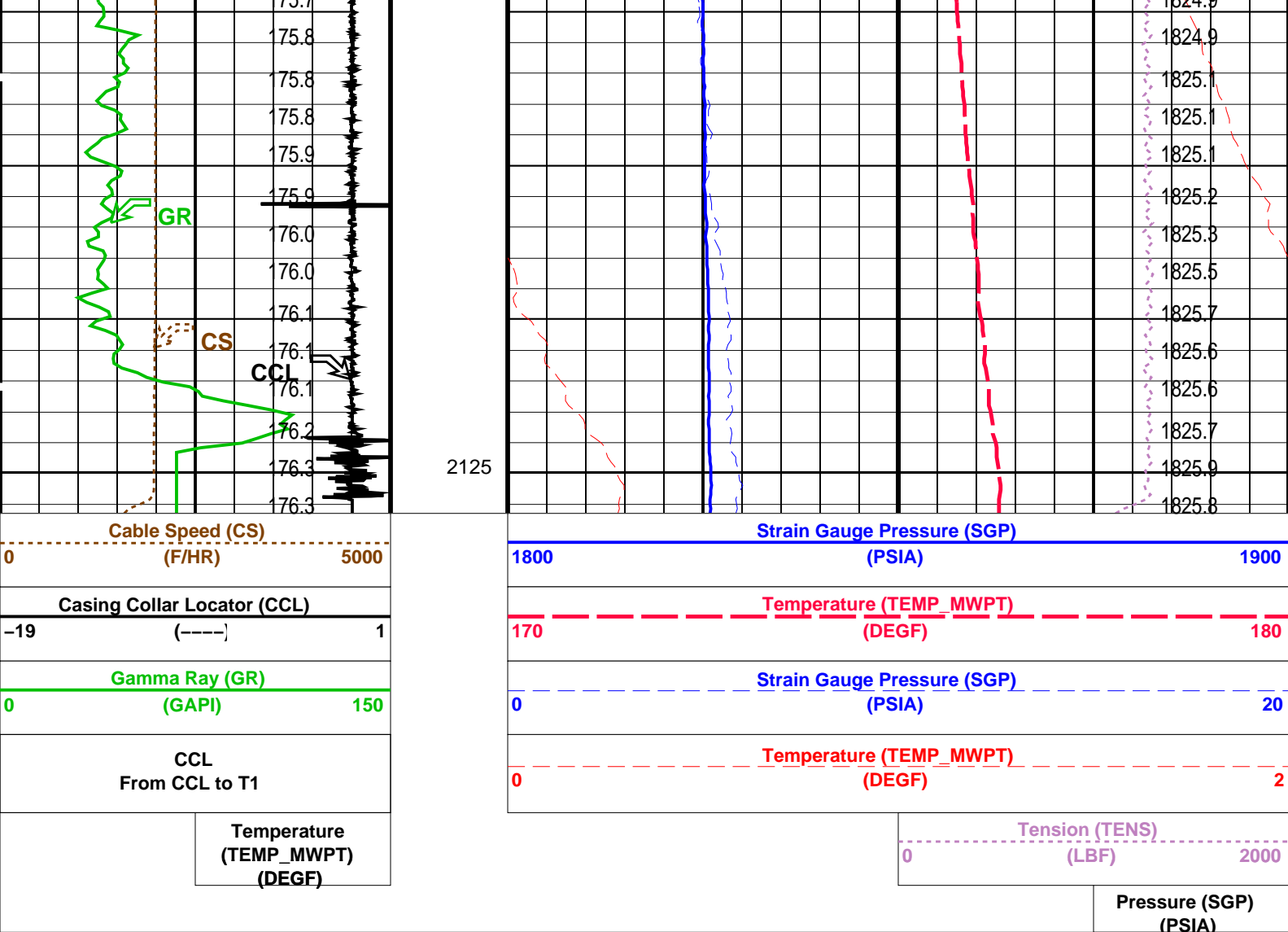
MWPT-CA

16C0-147

## PIP SUMMARY

Time Mark Every 60 S





#### PIP SUMMARY

Time Mark Every 60 S

#### Parameters

| DLIS Name                                   | Description                              | Value    |
|---|--|----------|
| MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL |  |          |
| DEVI_FL_CORR                                | Deviation Angle for Flow Line Correction | 0 DEG    |
| FLD   | Flow Line Density                        | 1 G/C3   |
| MWPT_NULL_SOURCE                            | MWPT NULL Temperature Source             | TEMS     |
| MWPT_NULL_TEMP                              | MWPT NULL Temperature                    | 0.0 DEGC |

Format: MWP Vertical Scale: 1:200 Graphics File Created: 06-May-2009 22:56

#### OP System Version: 16C0-147

MCM

|         |          |         |          |
|---------|----------|---------|----------|
| MWP_GUN | 16C0-147 | MWPT-CA | 16C0-147 |
| MWGT-AA | 16C0-147 |         |          |

#### Output DLIS Files

|         |              |       |          |                   |
|---------|--------------|-------|----------|-------------------|
| DEFAULT | PERFO_042LUP | FN:41 | PRODUCER | 06-May-2009 22:56 |
|---------|--------------|-------|----------|-------------------|

**Schlumberger**

**Flowing SIGMA Pass # 2**

Input DLIS Files

DEFAULT

RST\_PSP\_034LUP

FN:33

PRODUCER

06-May-2009 18:36

2180.7 M

2084.5 M

Output DLIS Files

DEFAULT

RST\_PSP\_035PUP

FN:34

PRODUCER

06-May-2009 18:58

2181.0 M

2079.3 M

OP System Version: 16C0-147

MCM

RST-C

SRPC-3777-Q4\_2008\_OP16

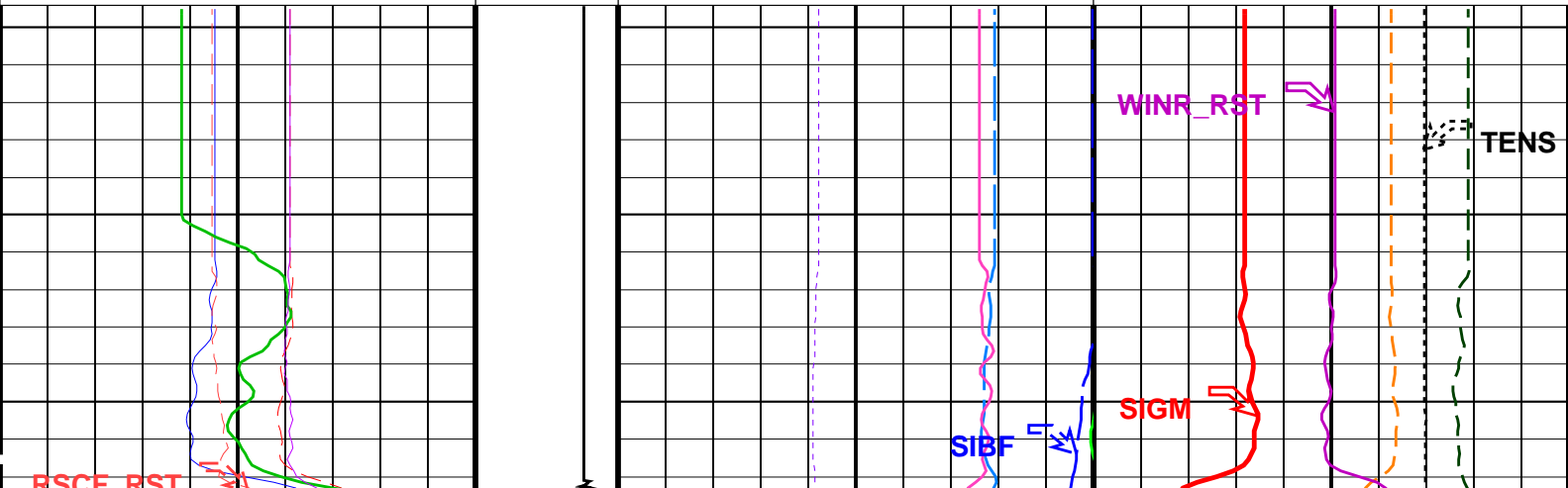
PSPT-B

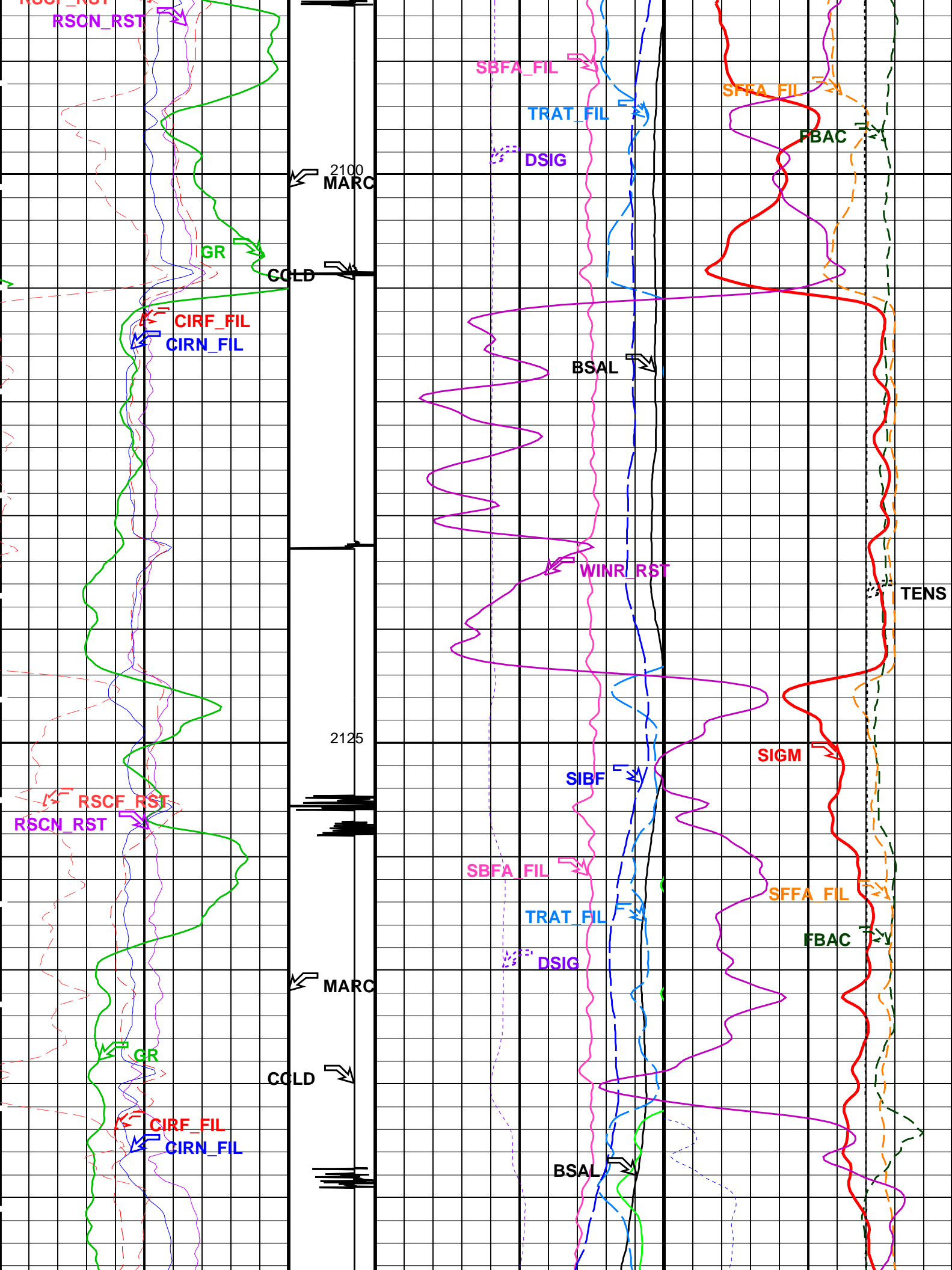
SRPC-3777-Q4\_2008\_OP16

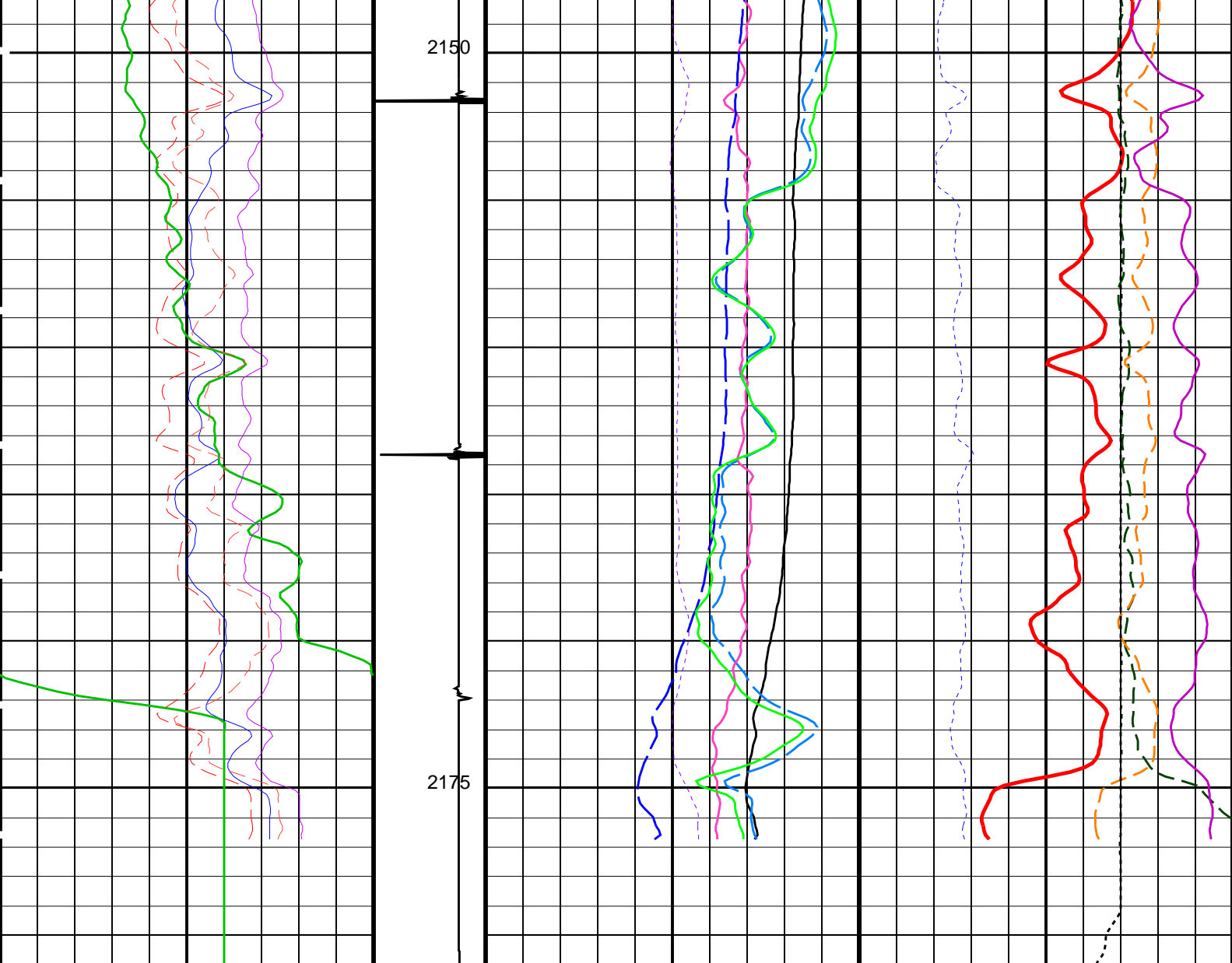
PIP SUMMARY

Time Mark Every 60 S

|  |   |   |   |
|--|---|---|---|
|  |   | RST Sigma (SIGM)                        |   |
|  |   | 60 (CU)                                 | 0                                       |
|  |   | RST Weighted Inelastic Ratio (WINR_RST) |   |
|  |   | 3 (----)                                | 0                                       |
|  |   | RST Porosity (TPHI)                     |   |
|  |   | 0.6 (V/V)                               | 0                                       |
| RST Far Effective Capture CR (RSCF_RST)        |   | RST Sigma Borehole Fluid (SIBF)         |   |
| 45 (----)                                      | 0 | 100 (CU)                                | 0                                       |
| RST Near Effective Capture CR (RSCN_RST)       |   | Sigma Borehole Far Apparent (SBFA_FIL)  |   |
| 45 (----)                                      | 0 | 150 (CU)                                | 0                                       |
|  |   | Tension (TENS)                          |   |
|  |   | 0 (LBF) 3000                            |   |
| RST Capture to Inelastic Ratio Far (CIRF_FIL)  |   | RST Capture Ratio (TRAT_FIL)            | Sigma Formation Far Apparent (SFFA_FIL) |
| 5 (----)                                       | 0 | 1.5 (----) 0.5                          | 60 (CU) 0                               |
| RST Capture to Inelastic Ratio Near (CIRN_FIL) |   | RST Sigma Difference (DSIG)             | MCS Far Background (filtered) (FBAC)    |
| 2.5 (----)                                     | 0 | -30 (CU) 30                             | 0 (CPS) 5000                            |
|  |   |   |   |
| Gamma Ray (GR)                                 |   | RST Borehole Salinity (BSAL)            | RST Inelastic Ratio (IRAT_FIL)          |
| 0 (GAPI) 150                                   |   | 450 (PPK) -50                           | 0.75 (----) 0                           |
|  |   |   |   |
|  |   |   |   |







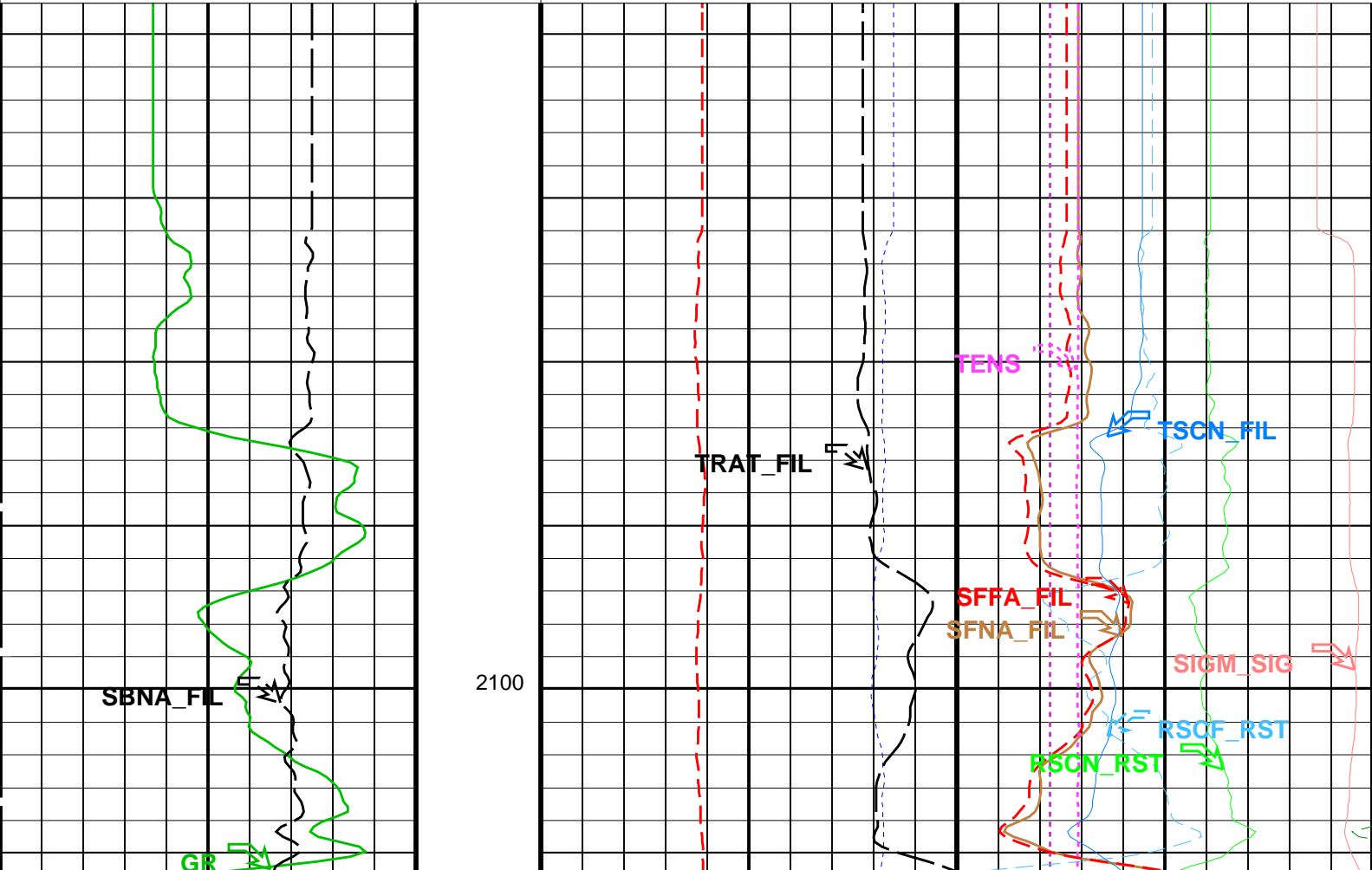
|   |  |  |  |   |  |
|---|--|--|--|---|--|
| <div>Gamma Ray (GR)</div> <div>0 (GAPI) 150</div>                                     | <div>Discriminat<br/>ed CCL<br/>(CCLD)</div> <div>3 (V) -1</div>           | <div>RST Borehole Salinity (BSAL)</div> <div>450 (PPK) -50</div>         |  | <div>RST Inelastic Ratio (IRAT_FIL)</div> <div>0.75 (----) 0</div>      |  |
|   |  |  |  |   |  |
| <div>RST Capture to Inelastic Ratio Near<br/>(CIRN_FIL)</div> <div>2.5 (----) 0</div> | <div>Minitron<br/>Arc<br/>Detection<br/>(MARC)</div> <div>0 (----) 5</div> | <div>RST Sigma Difference (DSIG)</div> <div>-30 (CU) 30</div>            |  | <div>MCS Far Background (filtered) (FBAC)</div> <div>0 (CPS) 5000</div> |  |
| <div>RST Capture to Inelastic Ratio Far<br/>(CIRF_FIL)</div> <div>5 (----) 0</div>    |  | <div>RST Capture Ratio (TRAT_FIL)</div> <div>1.5 (----) 0.5</div>        |  | <div>Sigma Formation Far Apparent (SFFA_FIL)</div> <div>60 (CU) 0</div> |  |
| <div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45 (----) 0</div>            |  | <div>Sigma Borehole Far Apparent (SBFA_FIL)</div> <div>150 (CU) 0</div>  |  | <div>Tension (TENS)</div> <div>0 (LBF) 3000</div>                       |  |
| <div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45 (----) 0</div>             |  | <div>RST Sigma Borehole Fluid (SIBF)</div> <div>100 (CU) 0</div>         |  |   |  |
|   |  | <div>RST Porosity (TPHI)</div> <div>0.6 (V/V) 0</div>                    |  |   |  |
|   |  | <div>RST Weighted Inelastic Ratio (WINR_RST)</div> <div>3 (----) 0</div> |  |   |  |
|   |  | <div>RST Sigma (SIGM)</div>  |  |   |  |

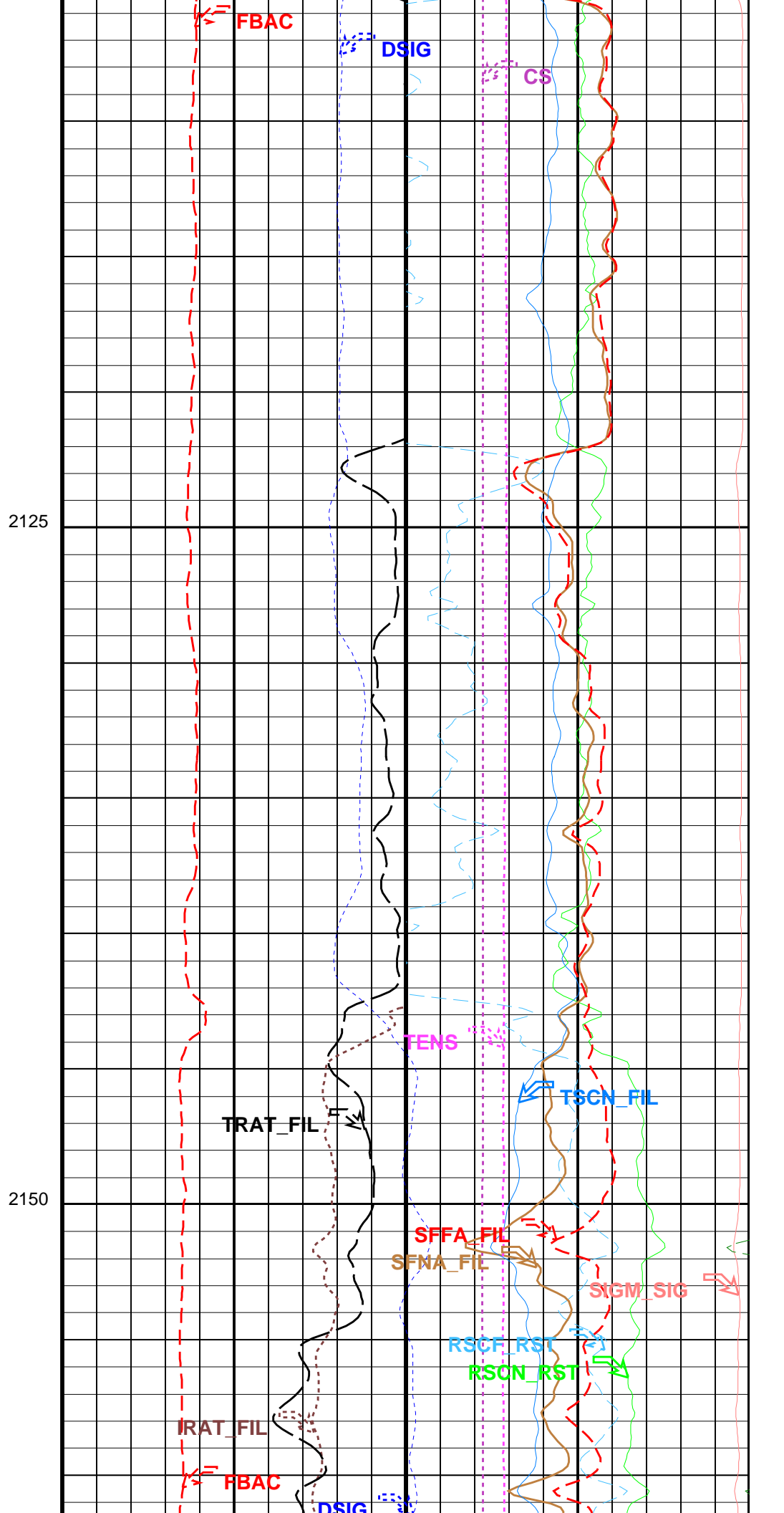
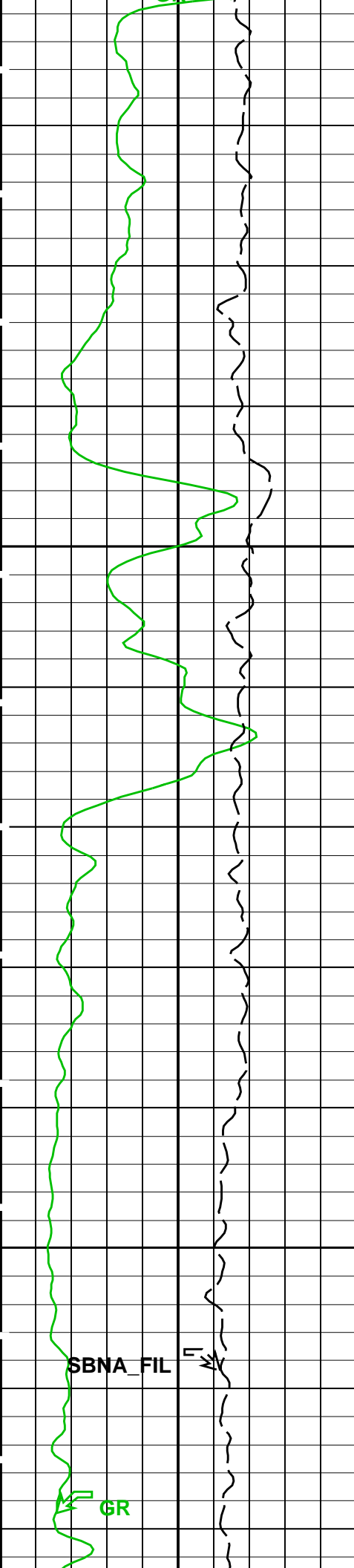
|  |  |   |  |       |        |  |                        |                                     |  |
|--|--|---|--|-------|--------|--|------------------------|-------------------------------------|--|
|  |  | RST Sigma (SIGM)                                |  | 60    |        | (CU)                                     |                        | 0                                   |  |
| PIP SUMMARY                                  |  |   |  |       |        |  |                        |                                     |  |
| Time Mark Every 60 S                         |  |   |  |       |        |  |                        |                                     |  |
| Parameters                                   |  |   |  |       |        |  |                        |                                     |  |
| DLIS Name                                    |  | Description                                     |  |       |        | Value                                    |                        |                                     |  |
| RST-C: Reservoir Saturation Pro Tool C       |  |   |  |       |        |  |                        |                                     |  |
| AIRB   |  | RST Air Borehole                                |  |       |        | No                                       |                        |                                     |  |
| BHS  |  | Borehole Status                                 |  |       |        | CASED                                    |                        |                                     |  |
| BSALOPT                                      |  | RST Borehole Salinity Option                    |  |       |        | Unknown                                  |                        |                                     |  |
| BSFL   |  | RST Borehole Salinity Filter Length             |  |       |        | 51                                       |                        |                                     |  |
| DFPC   |  | RST Depth Filter Processing Constant            |  |       |        | One                                      |                        |                                     |  |
| DFPC_TDTL                                    |  | RST Depth Filter Processing Constant (TDT-like) |  |       |        | Two                                      |                        |                                     |  |
| MATR   |  | Rock Matrix for Neutron Porosity Corrections    |  |       |        | SANDSTONE                                |                        |                                     |  |
| NORM_IRAT_RST                                |  | RST Normalized Inelastic Ratio                  |  |       |        | 0.48                                     |                        |                                     |  |
| NORM_SIGM_RST                                |  | RST Normalized Sigma                            |  |       |        | 30                                       |                        | CU                                  |  |
| RGAI   |  | Near/Far Gain Calibration Ratio                 |  |       |        | 1  |                        |                                     |  |
| TIER_SIGM                                    |  | RST Sigma Acquisition Mode                      |  |       |        | 0_RST_Sigma                              |                        |                                     |  |
| PSPT-B: Production Services Logging Platform |  |   |  |       |        |  |                        |                                     |  |
| BHS  |  | Borehole Status                                 |  |       |        | CASED                                    |                        |                                     |  |
| MATR   |  | Rock Matrix for Neutron Porosity Corrections    |  |       |        | SANDSTONE                                |                        |                                     |  |
| System and Miscellaneous                     |  |   |  |       |        |  |                        |                                     |  |
| BS   |  | Bit Size  |  |       |        | 8.500                                    |                        | IN                                  |  |
| BSAL   |  | Borehole Salinity                               |  |       |        | -50000.00                                |                        | PPM                                 |  |
| CSIZ   |  | Current Casing Size                             |  |       |        | 7.625                                    |                        | IN                                  |  |
| CWEI   |  | Casing Weight                                   |  |       |        | 26.40                                    |                        | LB/F                                |  |
| DO   |  | Depth Offset for Playback                       |  |       |        | 0.3                                      |                        | M                                   |  |
| PP   |  | Playback Processing                             |  |       |        | NORMAL                                   |                        |                                     |  |
| Format: RST_SIG_ANSW                         |  | Vertical Scale: 1:200                           |  |       |        | Graphics File Created: 06-May-2009 18:58 |                        |                                     |  |
| OP System Version: 16C0-147                  |  |   |  |       |        |  |                        |                                     |  |
| MCM  |  |   |  |       |        |  |                        |                                     |  |
| RST-C  |  | SRPC-3777-Q4_2008_OP16                          |  |       | PSPT-B |  | SRPC-3777-Q4_2008_OP16 |                                     |  |
| Input DLIS Files                             |  |   |  |       |        |  |                        |                                     |  |
| DEFAULT                                      |  | RST_PSP_034LUP                                  |  | FN:33 |        | PRODUCER                                 |                        | 06-May-2009 18:36 2180.7 M 2084.5 M |  |
| Output DLIS Files                            |  |   |  |       |        |  |                        |                                     |  |
| DEFAULT                                      |  | RST_PSP_035PUP                                  |  | FN:34 |        | PRODUCER                                 |                        | 06-May-2009 18:58                   |  |
| Schlumberger                                 |  |   |  |       |        |  |                        |                                     |  |
| Flowing SIGMA Pass # 1                       |  |   |  |       |        |  |                        |                                     |  |
| MAXIS Field Log                              |  |   |  |       |        |  |                        |                                     |  |
| Company: Esso Australia Pty Ltd.             |  |   |  |       |        |  |                        |                                     |  |
| Well: A17                                    |  |   |  |       |        |  |                        |                                     |  |
| Input DLIS Files                             |  |   |  |       |        |  |                        |                                     |  |
| DEFAULT                                      |  | RST_PSP_031LUP                                  |  | FN:30 |        | PRODUCER                                 |                        | 06-May-2009 18:08 2179.6 M 2084.1 M |  |
| Output DLIS Files                            |  |   |  |       |        |  |                        |                                     |  |
| DEFAULT                                      |  | RST_PSP_033PUP                                  |  | FN:32 |        | PRODUCER                                 |                        | 06-May-2009 18:32 2180.1 M 2079.0 M |  |
| OP System Version: 16C0-147                  |  |   |  |       |        |  |                        |                                     |  |
| MCM  |  |   |  |       |        |  |                        |                                     |  |

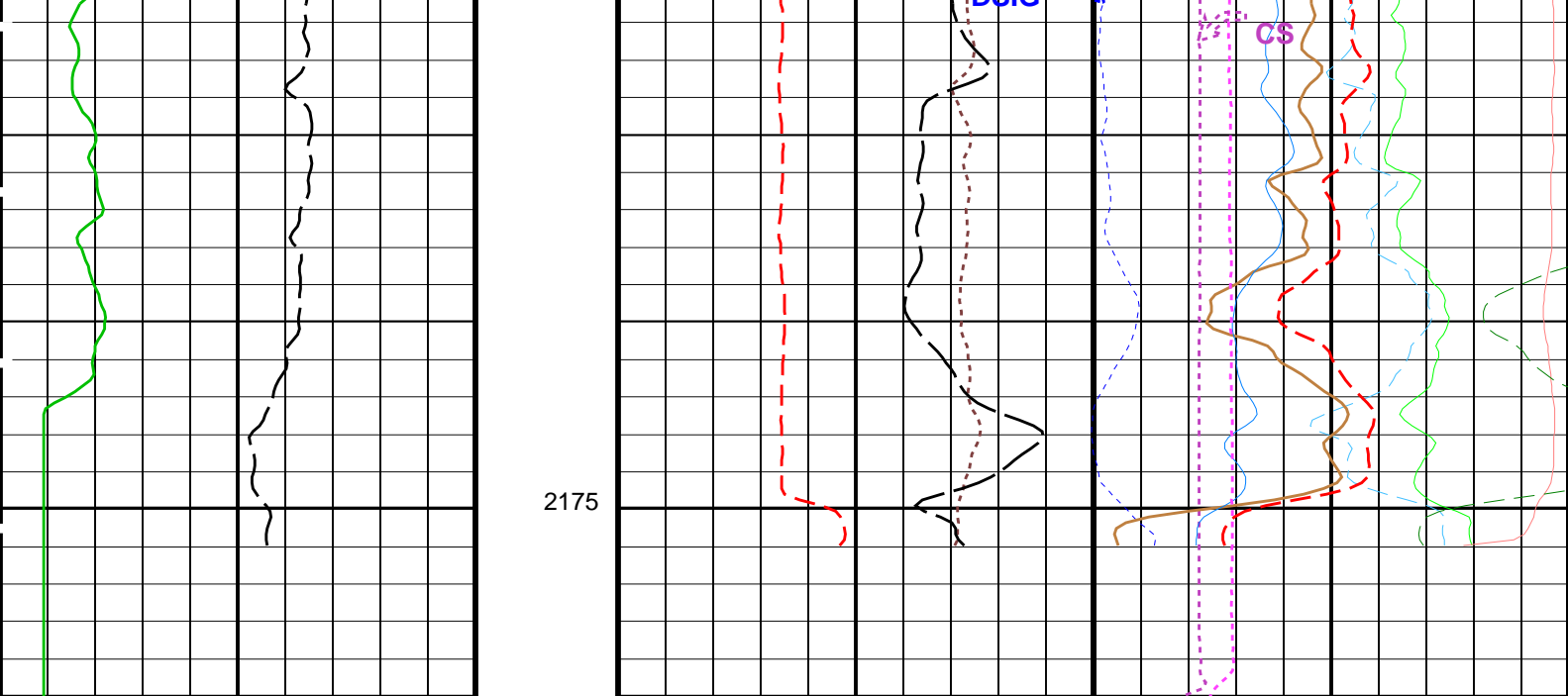


Time Mark Every 60 S

|  |  |  |  |
|--|--|--|--|
|  |  | <div>Tension (TENS)</div> <div>0 (LBF) 2000</div>                          |  |
|  |  | <div>Tot Sel CR Far (TSCF_FIL)</div> <div>0 (CPS) 12000</div>              |  |
|  |  | <div>Tot Sel CR Near (TSCN_FIL)</div> <div>0 (CPS) 30000</div>             |  |
|  |  | <div>RST Sigma Unc (SIGM_SIG)</div> <div>3 (CU) 0</div>                    |  |
| <div>RST Capture Ratio (TRAT_FIL)</div> <div>1.5 (----) 0.5</div>        |  | <div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45 (----) 0</div>  |  |
|  |  | <div>Sigma Formation Far Apparent (SFFA_FIL)</div> <div>60 (CU) 0</div>    |  |
|  |  | <div>Sigma Formation Near Apparent (SFNA_FIL)</div> <div>60 (CU) 0</div>   |  |
|  | <div>RST Inelastic Ratio (IRAT_FIL)</div> <div>0 (----) 0.75</div>       | <div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45 (----) 0</div> |  |
| <div>Sigma Borehole Near Apparent (SBNA_FIL)</div> <div>150 (CU) 0</div> | <div>MCS Far Background (filtered) (FBAC)</div> <div>0 (CPS) 10000</div> | <div>Cable Speed (CS)</div> <div>0 (F/HR) 2000</div>                       |  |
| <div>Gamma Ray (GR)</div> <div>0 (GAPI) 150</div>                        | <div>RST Sigma Difference (DSIG)</div> <div>-30 (CU) 30</div>            |  |  |







|   |        |     |
|---|--------|-----|
| Gamma Ray (GR)                          |        |     |
| 0                                       | (GAPI) | 150 |
| Sigma Borehole Near Apparent (SBNA_FIL) |        |     |
| 150                                     | (CU)   | 0   |

|  |        |  |
|--|--------|--|
| RST Sigma Difference (DSIG)              |        |  |
| -30                                      | (CU)   | 30                                       |
| MCS Far Background (filtered) (FBAC)     |        | Cable Speed (CS)                         |
| 0  | (CPS)  | 10000                                    |
| RST Inelastic Ratio (IRAT_FIL)           |        | RST Near Effective Capture CR (RSCN_RST) |
| 0  | (----) | 0.75                                     |
| Sigma Formation Near Apparent (SFNA_FIL) |        |  |
| 60                                       | (CU)   | 0  |
| Sigma Formation Far Apparent (SFFA_FIL)  |        |  |
| 60                                       | (CU)   | 0  |
| RST Capture Ratio (TRAT_FIL)             |        | RST Far Effective Capture CR (RSCF_RST)  |
| 1.5                                      | (----) | 0.5                                      |
| RST Sigma Unc (SIGM_SIG)                 |        |  |
| 3  | (CU)   | 0  |
| Tot Sel CR Near (TSCN_FIL)               |        |  |
| 0  | (CPS)  | 30000                                    |
| Tot Sel CR Far (TSCF_FIL)                |        |  |
| 0  | (CPS)  | 12000                                    |
| Tension (TENS)                           |        |  |
| 0  | (LBF)  | 2000                                     |

#### PIP SUMMARY

Time Mark Every 60 S

### Parameters

| DLIS Name                              | Description                                     | Value     |
|--|---|-----------|
| RST-C: Reservoir Saturation Pro Tool C |   |           |
| AIRB                                   | RST Air Borehole                                | No        |
| BHS                                    | Borehole Status                                 | CASED     |
| BSALOPT                                | RST Borehole Salinity Option                    | Unknown   |
| BSFL                                   | RST Borehole Salinity Filter Length             | 51        |
| DFPC                                   | RST Depth Filter Processing Constant            | One       |
| DFPC_TDTL                              | RST Depth Filter Processing Constant (TDT-like) | Two       |
| MATR                                   | Rock Matrix for Neutron Porosity Corrections    | SANDSTONE |
| NORM_IRAT_RST                          | RST Normalized Inelastic Ratio                  | 0.48      |


|  |  |             |      |
|--|--|-------------|------|
| NORM_SIGM_RST                                | RST Normalized Sigma                         | 0.45        | CU   |
| RGAI   | Near/Far Gain Calibration Ratio              | 30          | 1    |
| TIER_SIGM                                    | RST Sigma Acquisition Mode                   | 0_RST_Sigma |      |
| PSPT-B: Production Services Logging Platform |  |             |      |
| BHS  | Borehole Status                              | CASED       |      |
| MATR   | Rock Matrix for Neutron Porosity Corrections | SANDSTONE   |      |
| System and Miscellaneous                     |  |             |      |
| BS   | Bit Size                                     | 8.500       | IN   |
| BSAL   | Borehole Salinity                            | -50000.00   | PPM  |
| CSIZ   | Current Casing Size                          | 7.625       | IN   |
| CWEI   | Casing Weight                                | 26.40       | LB/F |
| DO   | Depth Offset for Playback                    | 0.4         | M    |
| PP   | Playback Processing                          | NORMAL      |      |

Format: RST\_SIG\_QUALITY

Vertical Scale: 1:200

Graphics File Created: 06-May-2009 18:32

|                             |                        |        |          |                        |          |          |
|-----------------------------|------------------------|--------|----------|------------------------|----------|----------|
| OP System Version: 16C0-147 |                        |        |          |                        |          |          |
| MCM                         |                        |        |          |                        |          |          |
| RST-C                       | SRPC-3777-Q4_2008_OP16 | PSPT-B |          | SRPC-3777-Q4_2008_OP16 |          |          |
| Input DLIS Files            |                        |        |          |                        |          |          |
| DEFAULT                     | RST_PSP_031LUP         | FN:30  | PRODUCER | 06-May-2009 18:08      | 2179.6 M | 2084.1 M |
| Output DLIS Files           |                        |        |          |                        |          |          |
| DEFAULT                     | RST_PSP_033PUP         | FN:32  | PRODUCER | 06-May-2009 18:32      |          |          |



Sigma Pass Static

MAXIS Field Log

Company: Esso Australia Pty Ltd.

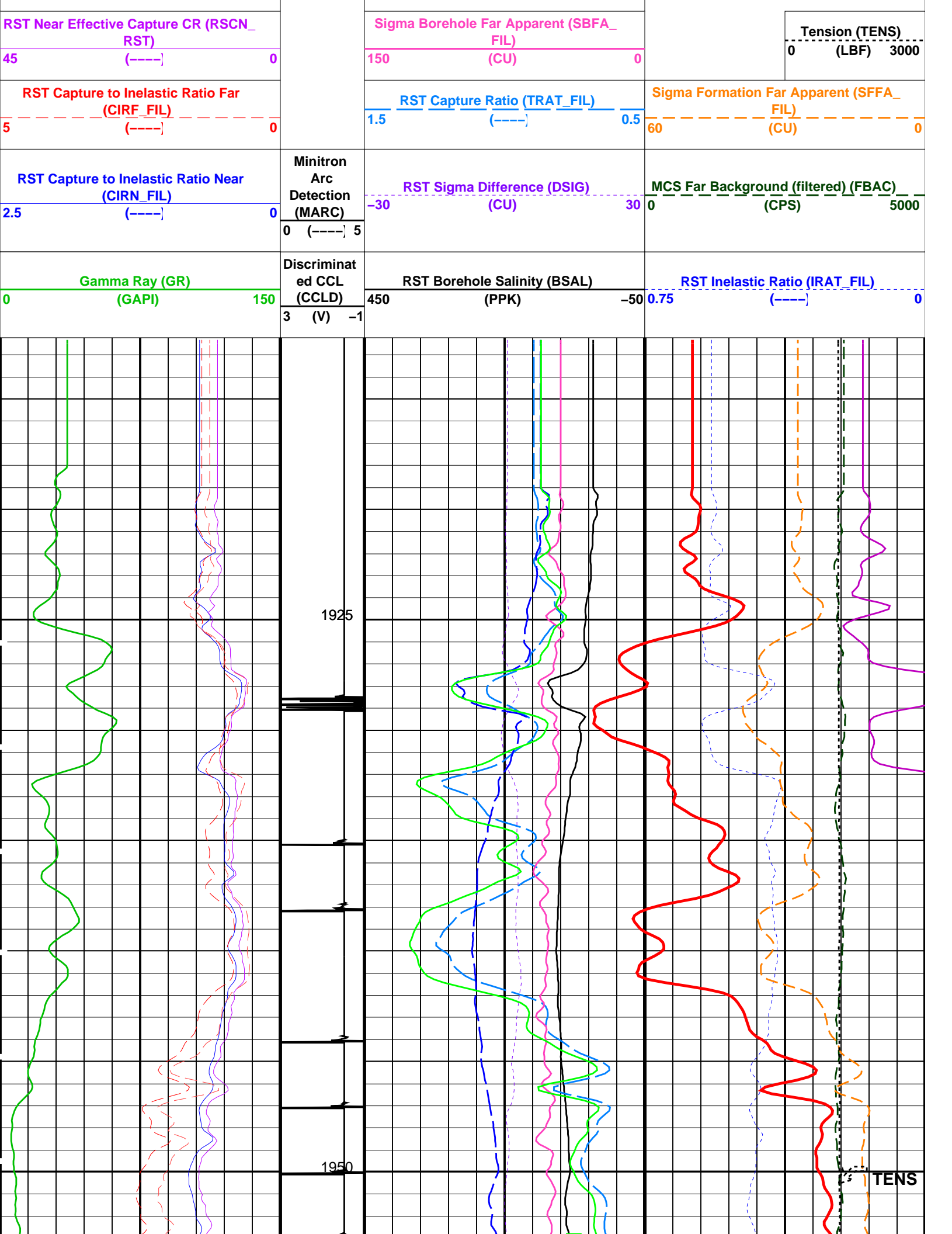
Well: A17

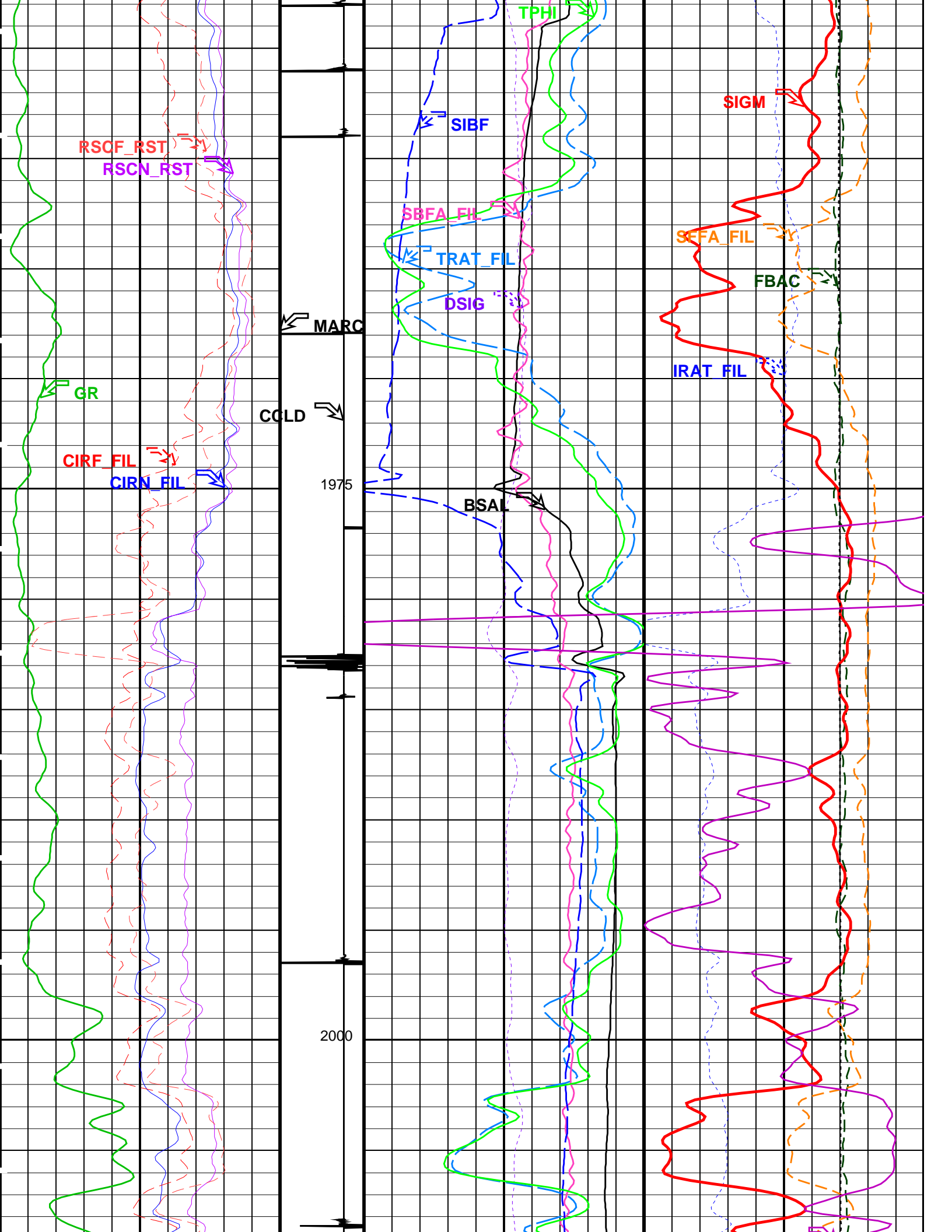
|  |                        |        |                        |  |  |  |
|--|------------------------|--------|------------------------|--|--|--|
| <div>Input DLIS Files</div> <div> <div>DEFAULT</div> <div>RST_PSP_025LUP</div> <div>FN:24</div> <div>PRODUCER</div> <div>06-May-2009 12:31</div> <div>2184.7 M</div> <div>1917.2 M</div> </div>  |                        |        |                        |  |  |  |
| <div>Output DLIS Files</div> <div> <div>DEFAULT</div> <div>RST_PSP_030PUP</div> <div>FN:29</div> <div>PRODUCER</div> <div>06-May-2009 18:03</div> <div>2185.1 M</div> <div>1912.2 M</div> </div> |                        |        |                        |  |  |  |
| <div>OP System Version: 16C0-147</div> <div>MCM</div>  |                        |        |                        |  |  |  |
| RST-C  | SRPC-3777-Q4_2008_OP16 | PSPT-B | SRPC-3777-Q4_2008_OP16 |  |  |  |

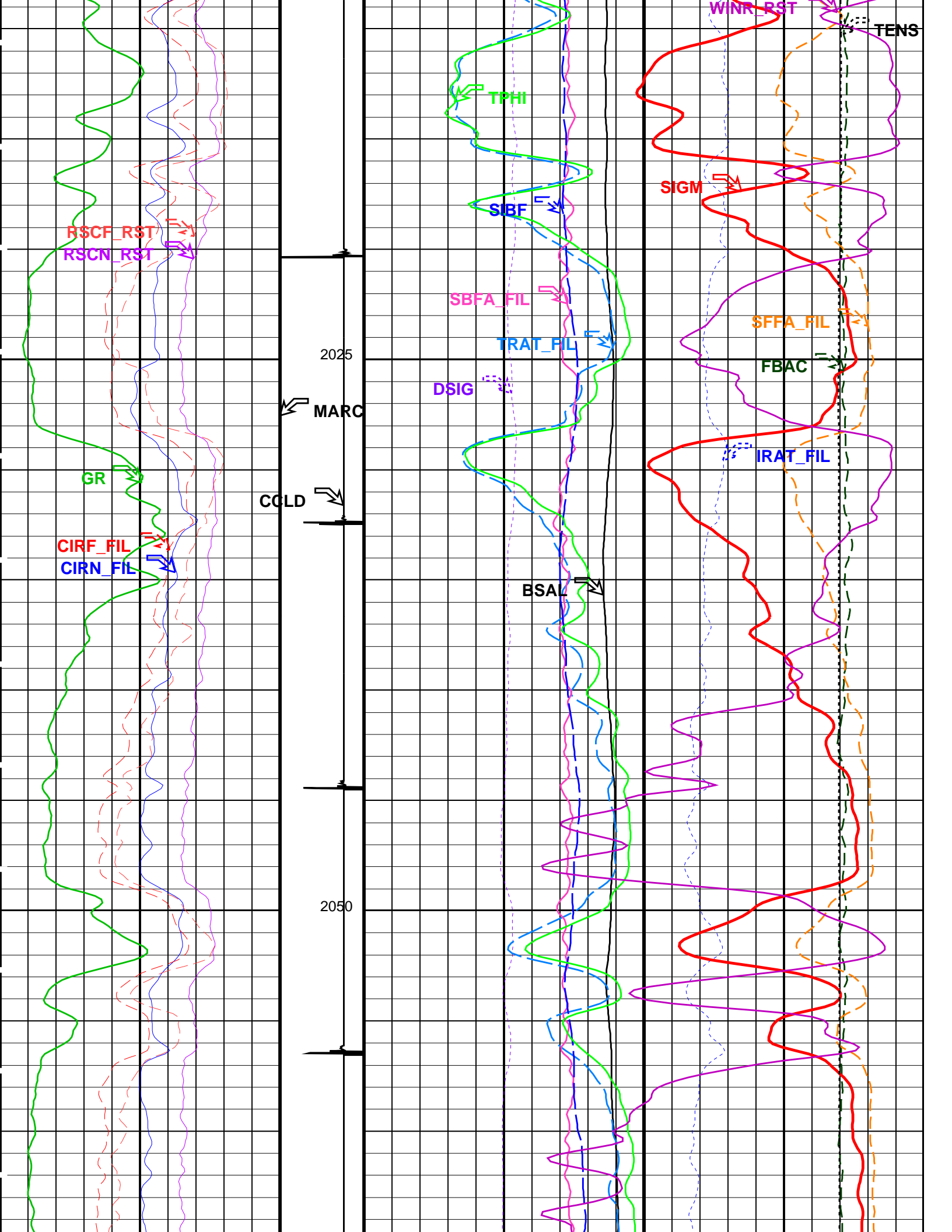
PIP SUMMARY

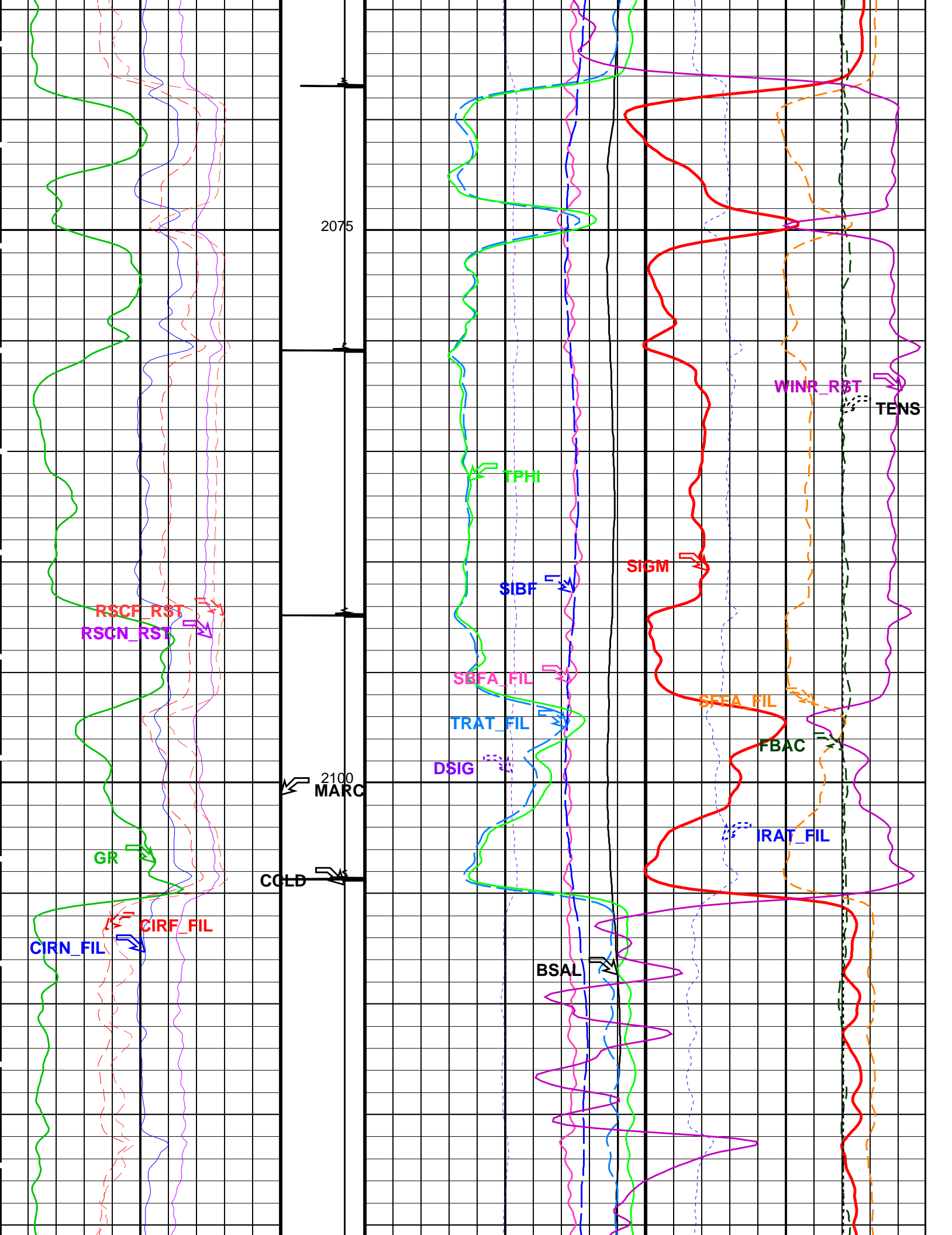
Time Mark Every 60 S

|   |        |   |
|---|--------|---|
| RST Sigma (SIGM)                        |        |   |
| 60                                      | (CU)   | 0 |
| RST Weighted Inelastic Ratio (WINR_RST) |        |   |
| 1                                       | (----) | 0 |
| RST Porosity (TPHI)                     |        |   |
| 0.6                                     | (V/V)  | 0 |
| RST Sigma Borehole Fluid (SIBF)         |        |   |
| 100                                     | (CU)   | 0 |
| RST Far Effective Capture CR (RSCF_RST) |        |   |
| 45                                      | (----) | 0 |

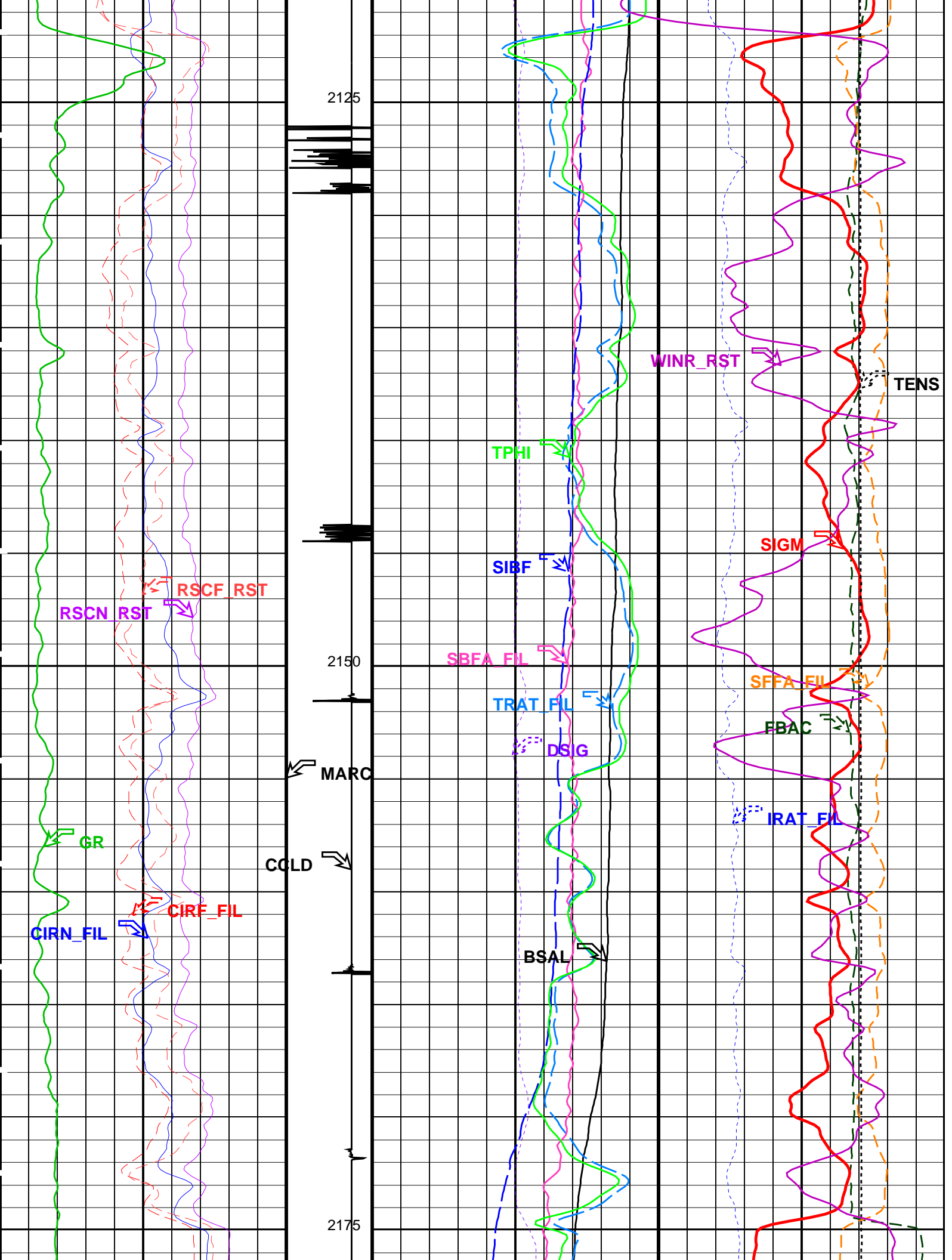


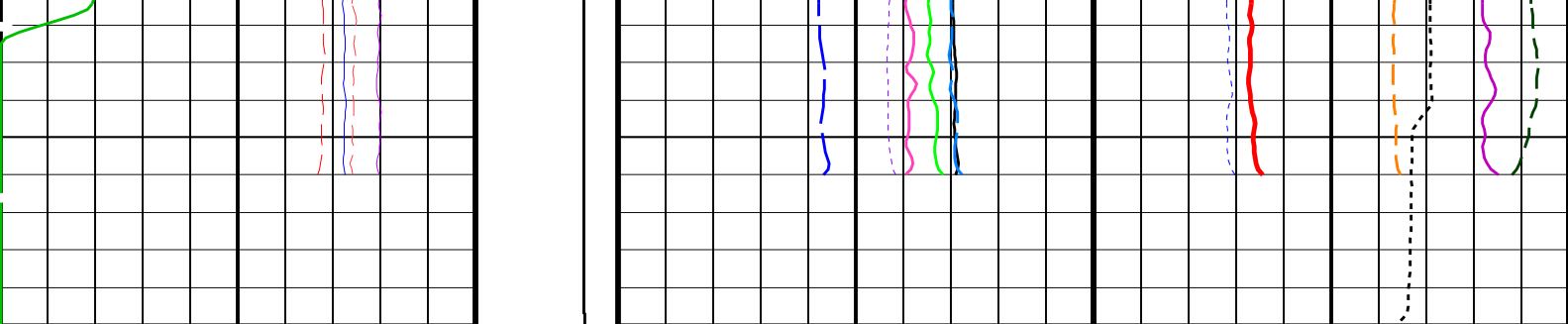












|   |     |     |  |   |    |  |     |     |  |      |      |
|---|-----|-----|--|---|----|--|-----|-----|--|------|------|
| <b>Gamma Ray (GR)</b><br>(GAPI)                       | 0   | 150 | <b>Discriminated CCL (CCLD)</b><br>(V) | 3 | -1 | <b>RST Borehole Salinity (BSAL)</b><br>(PPK)             | 450 | -50 | <b>RST Inelastic Ratio (IRAT_FIL)</b><br>(----)        | 0.75 | 0    |
| <b>RST Capture to Inelastic Ratio Near (CIRN_FIL)</b> | 2.5 | 0   | <b>Minitron Arc Detection (MARC)</b>   | 0 | 5  | <b>RST Sigma Difference (DSIG)</b><br>(CU)               | -30 | 30  | <b>MCS Far Background (filtered) (FBAC)</b><br>(CPS)   | 0    | 5000 |
| <b>RST Capture to Inelastic Ratio Far (CIRF_FIL)</b>  | 5   | 0   |  |   |    | <b>RST Capture Ratio (TRAT_FIL)</b><br>(----)            | 1.5 | 0.5 | <b>Sigma Formation Far Apparent (SFFA_FIL)</b><br>(CU) | 60   | 0    |
| <b>RST Near Effective Capture CR (RSCN_RST)</b>       | 45  | 0   |  |   |    | <b>Sigma Borehole Far Apparent (SBFA_FIL)</b><br>(CU)    | 150 | 0   | <b>Tension (TENS)</b><br>(LBF)                         | 0    | 3000 |
| <b>RST Far Effective Capture CR (RSCF_RST)</b>        | 45  | 0   |  |   |    | <b>RST Sigma Borehole Fluid (SIBF)</b><br>(CU)           | 100 | 0   |  |      |      |
|   |     |     |  |   |    | <b>RST Porosity (TPHI)</b><br>(V/V)                      | 0.6 | 0   |  |      |      |
|   |     |     |  |   |    | <b>RST Weighted Inelastic Ratio (WINR_RST)</b><br>(----) | 1   | 0   |  |      |      |
|   |     |     |  |   |    | <b>RST Sigma (SIGM)</b><br>(CU)                          | 60  | 0   |  |      |      |

#### PIP SUMMARY

Time Mark Every 60 S

### Parameters

| DLIS Name                                    | Description                                     | Value         |
|--|---|---------------|
| RST-C: Reservoir Saturation Pro Tool C       |   |               |
| AIRB   | RST Air Borehole                                | No            |
| BHS  | Borehole Status                                 | CASED         |
| BSALOPT                                      | RST Borehole Salinity Option                    | Unknown       |
| BSFL   | RST Borehole Salinity Filter Length             | 51            |
| DFPC   | RST Depth Filter Processing Constant            | One           |
| DFPC_TDTL                                    | RST Depth Filter Processing Constant (TDT-like) | Two           |
| MATR   | Rock Matrix for Neutron Porosity Corrections    | SANDSTONE     |
| NORM_IRAT_RST                                | RST Normalized Inelastic Ratio                  | 0.48          |
| NORM_SIGM_RST                                | RST Normalized Sigma                            | 30            |
| RGAI   | Near/Far Gain Calibration Ratio                 | 1             |
| TIER_SIGM                                    | RST Sigma Acquisition Mode                      | 0_RST_Sigma   |
| PSPT-B: Production Services Logging Platform |   |               |
| BHS  | Borehole Status                                 | CASED         |
| MATR   | Rock Matrix for Neutron Porosity Corrections    | SANDSTONE     |
| System and Miscellaneous                     |   |               |
| BS   | Bit Size  | 8.500 IN      |
| BSAL   | Borehole Salinity                               | -50000.00 PPM |
| CSIZ   | Current Casing Size                             | 7.625 IN      |
| CWEI   | Casing Weight                                   | 26.40 LB/F    |
| DO   | Depth Offset for Playback                       | 0.5 M         |
| PP   | Playback Processing                             | NORMAL        |

OP System Version: 16C0-147

MCM

|                   |                        |                |                                     |
|-------------------|------------------------|----------------|-------------------------------------|
| RST-C             | SRPC-3777-Q4_2008_OP16 | PSPT-B         | SRPC-3777-Q4_2008_OP16              |
| Input DLIS Files  |                        |                |                                     |
| DEFAULT           | RST_PSP_025LUP         | FN:24 PRODUCER | 06-May-2009 12:31 2184.7 M 1917.2 M |
| Output DLIS Files |                        |                |                                     |
| DEFAULT           | RST_PSP_030PUP         | FN:29 PRODUCER | 06-May-2009 18:03                   |

Schlumberger

Gamma-Ray Pass

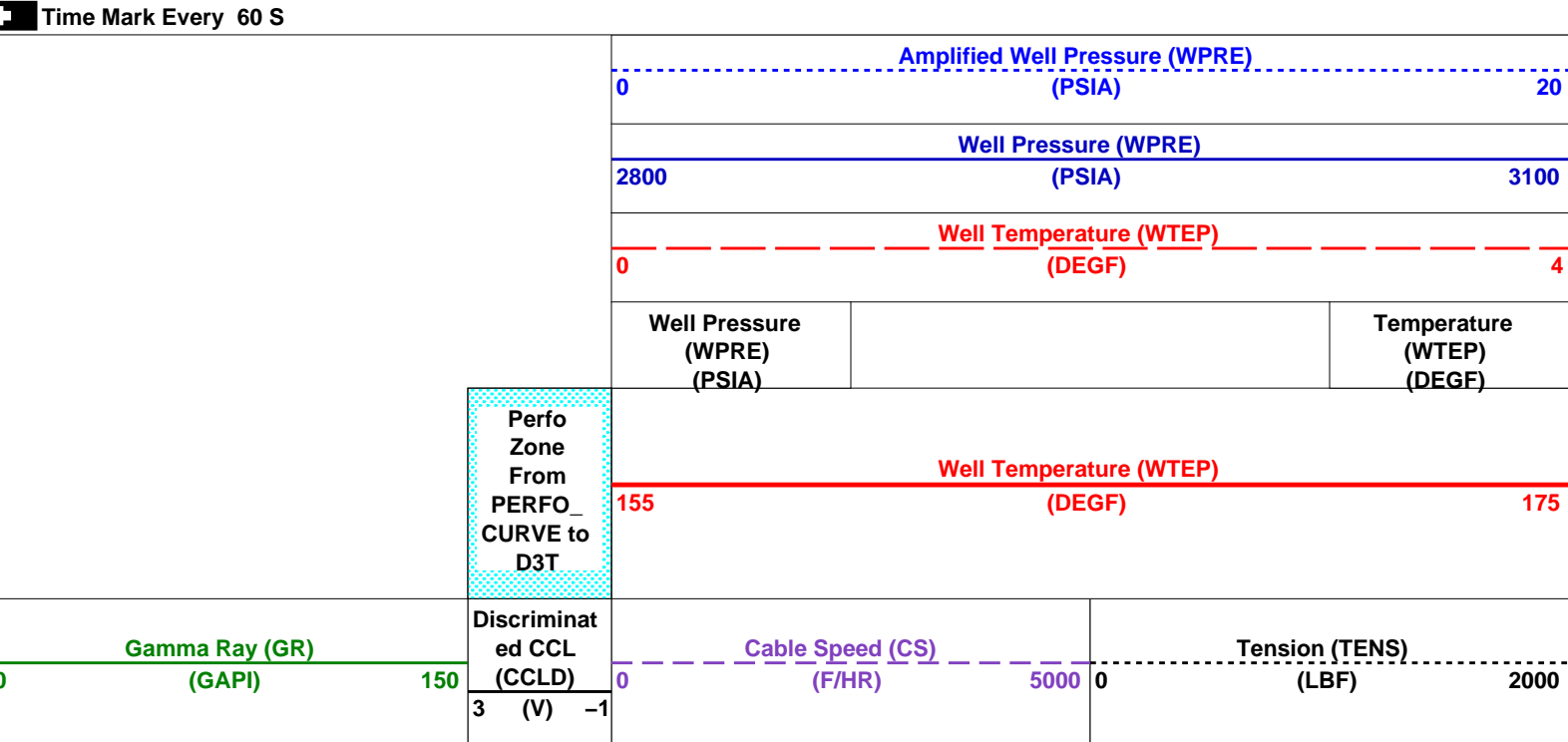
MAXIS Field Log

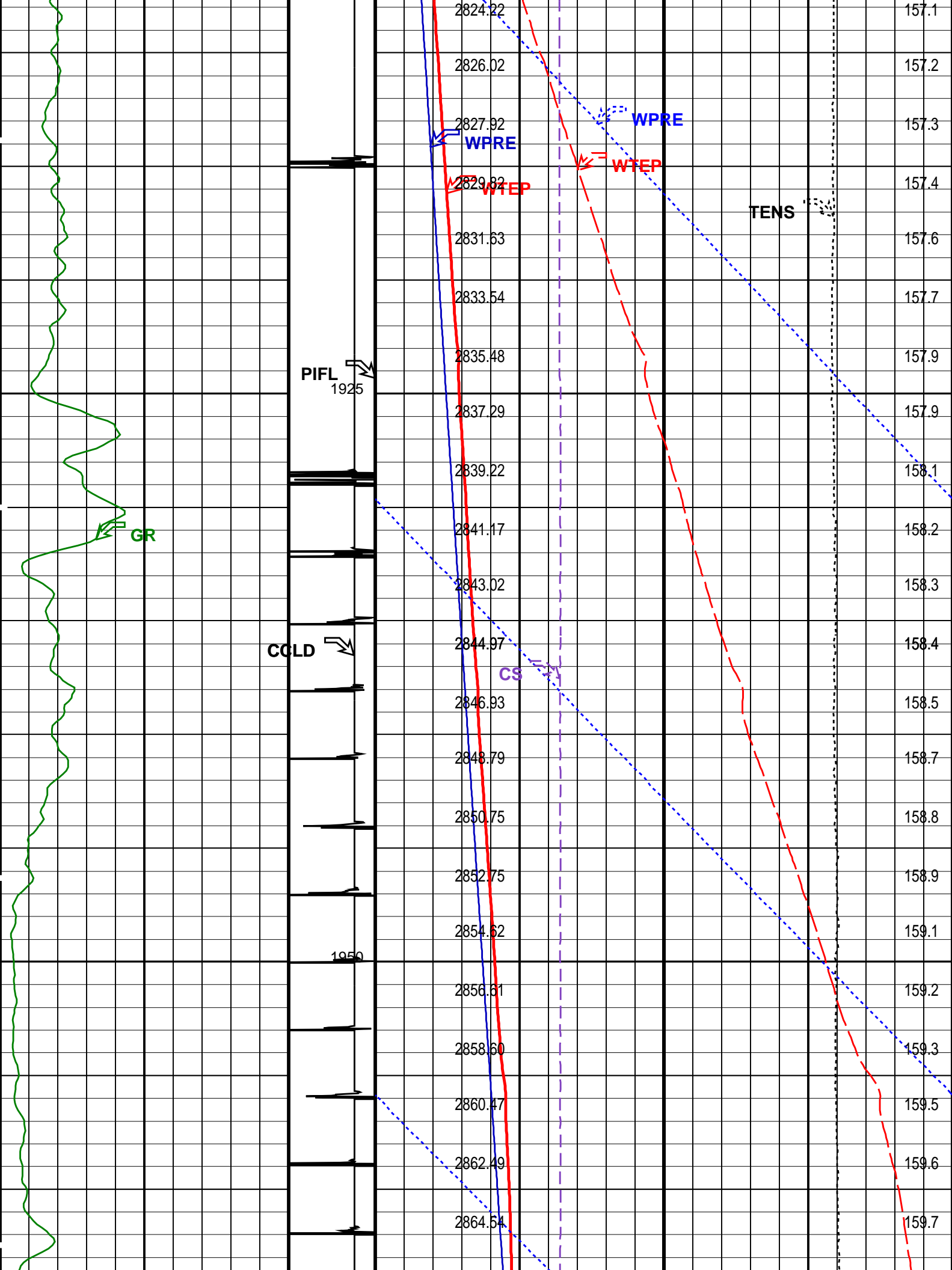
|                                  |                |                |                                     |
|----------------------------------|----------------|----------------|-------------------------------------|
| Company: Esso Australia Pty Ltd. |                |                | Well: A17                           |
| Input DLIS Files                 |                |                |                                     |
| DEFAULT                          | RST_PSP_022LUP | FN:21 PRODUCER | 19-Nov-2009 16:46 2188.5 M 1914.1 M |
| Output DLIS Files                |                |                |                                     |
| DEFAULT                          | RST_PSP_040PUP | FN:1 PRODUCER  | 19-Nov-2009 16:52 2180.4 M 1906.2 M |

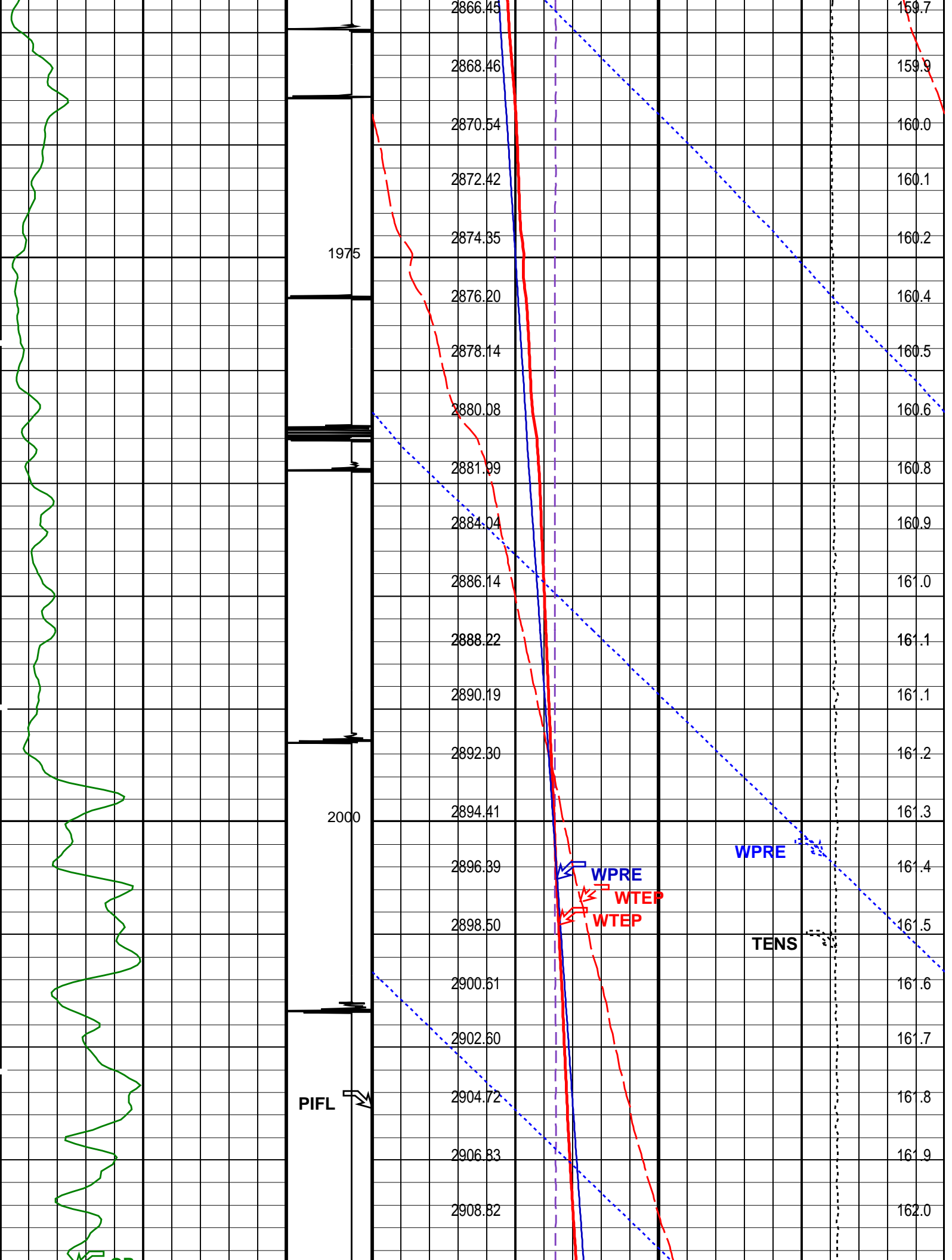
OP System Version: 17C0-154

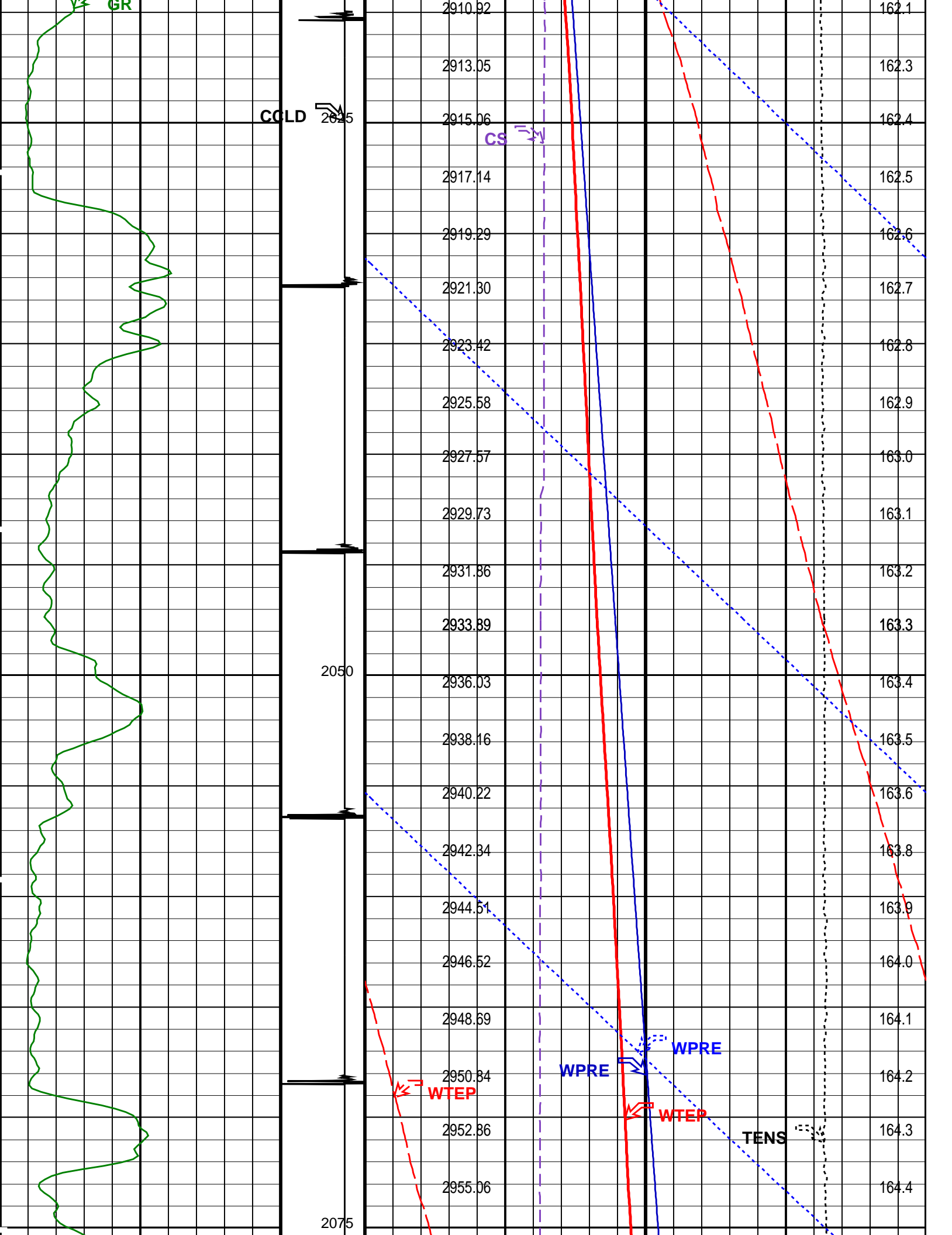
|       |          |        |          |
|-------|----------|--------|----------|
| RST-C | 17C0-154 | PSPT-B | 17C0-154 |
|-------|----------|--------|----------|

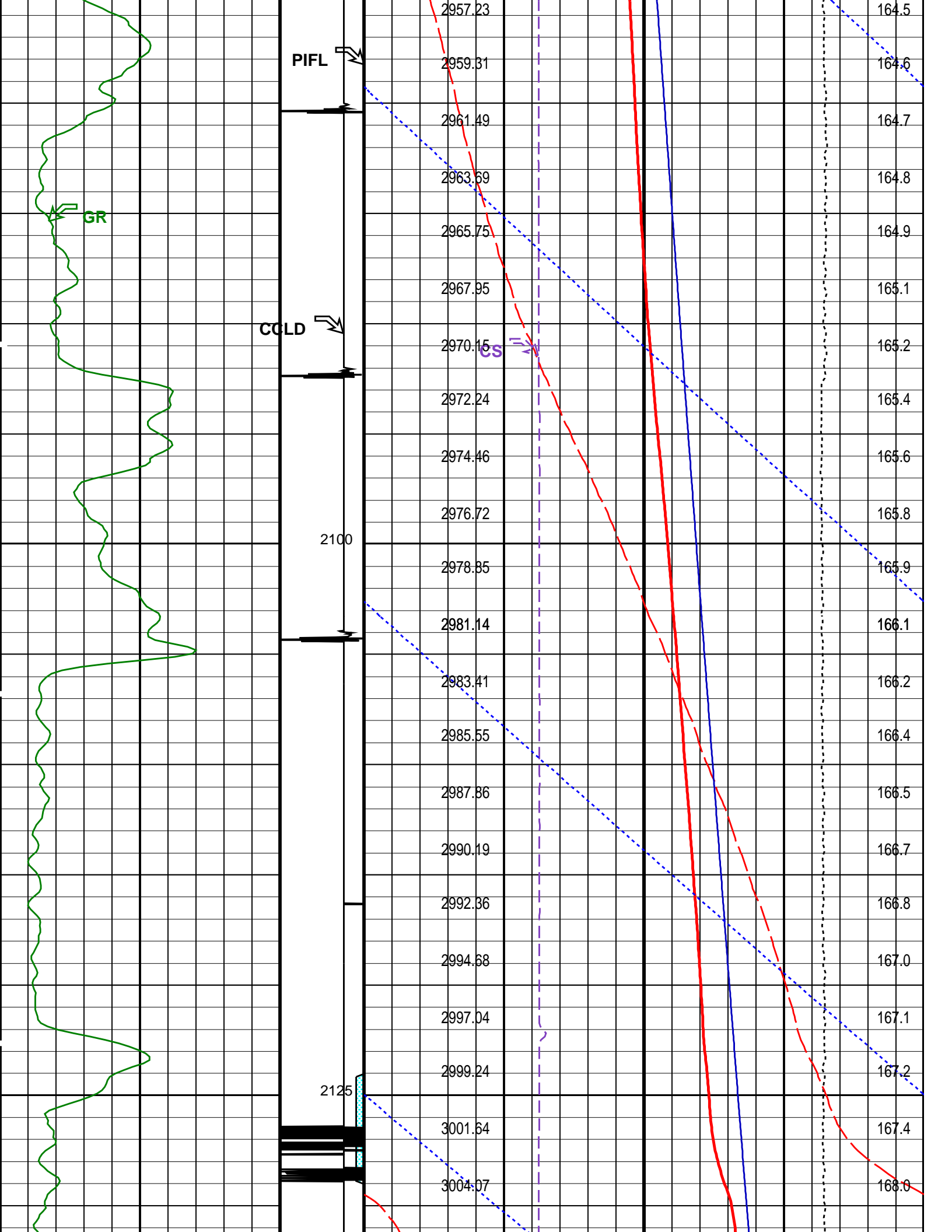
PIP SUMMARY

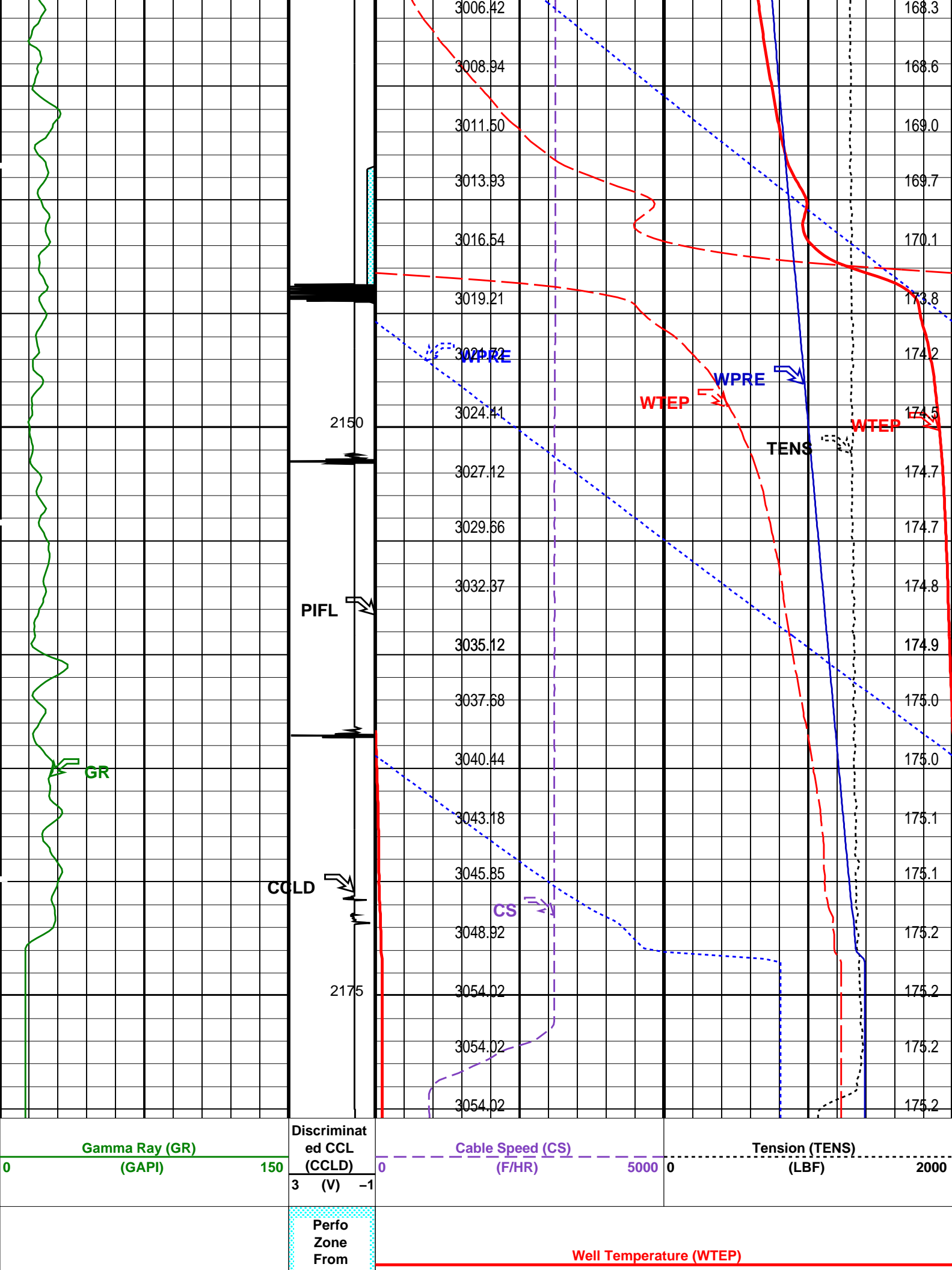




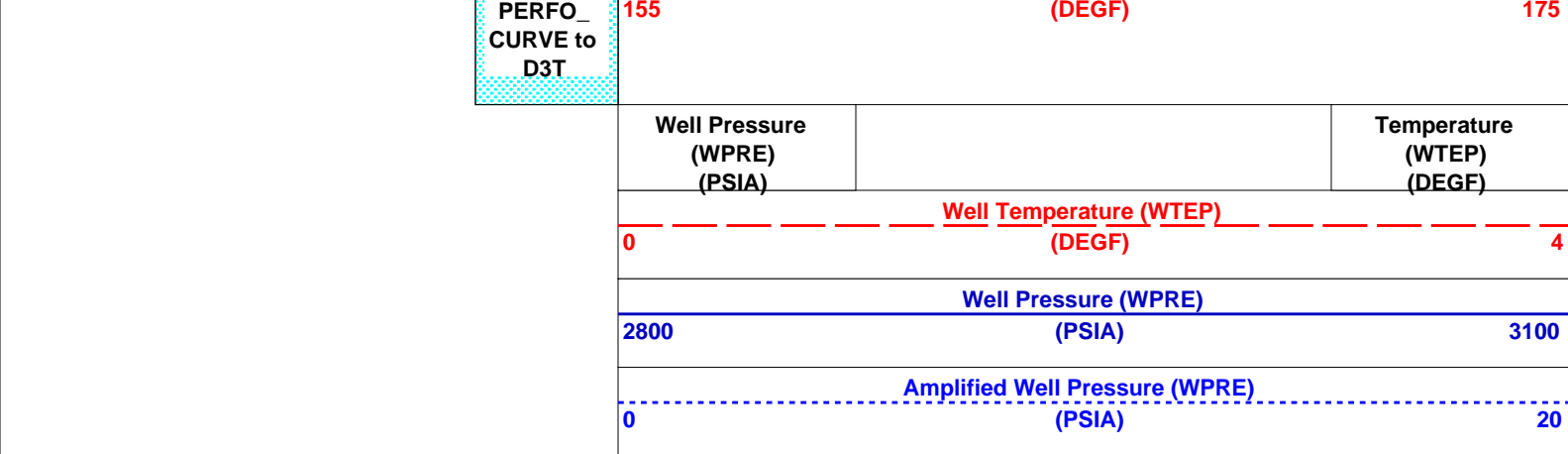












PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1\_1 Vertical Scale: 1:200 Graphics File Created: 19-Nov-2009 16:52

OP System Version: 17C0-154

|       |          |        |          |
|-------|----------|--------|----------|
| RST-C | 17C0-154 | PSPT-B | 17C0-154 |
|-------|----------|--------|----------|

| Parameters |  |        |   |
|------------|--|--------|---|
| DLIS Name  | Description                                      | Value  |   |
| DO         | System and Miscellaneous                         | -8.0   | M |
| PP         | Depth Offset for Playback<br>Playback Processing | NORMAL |   |

| Input DLIS Files |                |       |          |                   |          |          |
|------------------|----------------|-------|----------|-------------------|----------|----------|
| DEFAULT          | RST_PSP_022LUP | FN:21 | PRODUCER | 19-Nov-2009 16:46 | 2188.5 M | 1914.1 M |

| Output DLIS Files |                |      |          |                   |  |  |
|-------------------|----------------|------|----------|-------------------|--|--|
| DEFAULT           | RST_PSP_040PUP | FN:1 | PRODUCER | 19-Nov-2009 16:52 |  |  |

Company: Esso Australia Pty Ltd.

Well: A17

Field: Snapper

Rig: Prod4 / Crane

Country: Australia

Schlumberger

RST-C Sigma Survey  
2 1/8" Powerjet MWPT Perforation Record  
7 5/8" Posiset Plug Setting Record