

Company: Esso Australia Pty Ltd.

Well: A-15

Field: Flounder

Rig: Crane / Prod4

Country: Australia

2-1/8" Phased Powerjet MWPT
Perforation Record
5 1/2" Posiset Plug Setting Record

| | | | |
|-------------------------|-------------------------|-------------------|---------------------------|
| Rig: | Crane / Prod4 | | |
| Field: | Flounder | | |
| Location: | Gippsland | | |
| Well: | A-15 | | |
| Company: | Esso Australia Pty Ltd. | | |
| LOCATION | | | |
| Gippsland | | Elev.: | K.B. 34.20 m |
| Basin | | | G.L. -93.00 m |
| Bass Strait | | | D.F. 34.20 m |
| Permanent Datum: | | M.S.L. | |
| Log Measured From: | | K.B. | 40.80 m above Perm. Datum |
| Drilling Measured From: | | K.B. | |
| State: | Max. Well Deviation | Longitude | Latitude |
| Victoria | 40.3 deg | 148° 26' 21.748"E | 38° 18' 39.245"S |

| | | | |
|-------------------------------|-------------------|------|--|
| Logging Date | 18-Sep-2009 | | |
| Run Number | 1 thru 5 | | |
| Depth Driller | 3149 m | | |
| Schlumberger Depth | 3072 m | | |
| Bottom Log Interval | 3065.5 m | | |
| Top Log Interval | 3064 m | | |
| Casing Fluid Type | Production Fluids | | |
| Salinity | | | |
| Density | | | |
| Fluid Level | 1195 m | | |
| BIT/CASING/TUBING STRING | | | |
| Bit Size | 9.625 in | | |
| From | 649 m | | |
| To | 3149 m | | |
| Casing/Tubing Size | 5.500 in | | |
| Weight | 17 lbm/ft | | |
| Grade | N-80 | | |
| From | 1283 m | | |
| To | 3129 m | | |
| Maximum Recorded Temperatures | 235 degF | | |
| Logger On Bottom | 18-Sep-2009 | 8:35 | |
| Unit Number | 889 | AUSL | |
| Recorded By | O. Darby | | |
| Witnessed By | G. Rimmer | | |

| | | | | |
|-------------------------------|--------------------------|----------|-------|---|
| PVT DATA | Oil Density | Run 1 | Run 2 | R |
| | Water Salinity | | | |
| | Gas Gravity | | | |
| | Bo | | | |
| | Bw | | | |
| PVT DATA | 1/Bq | | | |
| | Bubble Point Pressure | | | |
| | Bubble Point Temperature | | | |
| CEMENTING DATA | Solution GOR | | | |
| | Maximum Deviation | 40.3 deg | | |
| | Primary/Squeeze | Primary | | |
| CEMENTING DATA | Casing String No | | | |
| | Lead Cement Type | | | |
| | Volume | | | |
| CEMENTING DATA | Density | | | |
| | Water Loss | | | |
| | Additives | | | |
| CEMENTING DATA | Tail Cement Type | | | |
| | Volume | | | |
| | Density | | | |
| CEMENTING DATA | 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 | | | | |

Date Created: 19-SEP-2009 7:58:54

Logging Cable

| | |
|--------------------|----------------|
| Type: | 2-32ZT |
| Serial Number: | 208558 |
| Length: | 6401 M |
| Conveyance Method: | Wireline |
| Rig Type: | Offshore Fixed |

| | |
|--------------------------------------|-----------------------------|
| Log Sequence: | Subsequent Trip To the Well |
| Reference Log Name: | A15 Petrophysical Analysis |
| Reference Log Run Number: | |
| Reference Log Date: | 5-Aug-2002 |
| Subsequent Trip Down Log Correction: | |

1. Correlated to ExxonMobil Petrophysical analysis log
2. Used IDW as primary depth control
3. Used Z-Chart as secondary depth control
4. All depths are drillers depths
- 5.
- 6.

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2


















Log correlated to ExxonMobil Composite Log supplied with logging program.
Maximum well deviation = 40.3 degrees at 1230m MDKB.
Run one well was perforated over the interval 3064m to 3065.5m MDKB using
2 1/8"45 degree phased powerjet at 6 shots per foot.
SBHP = 3309 psia,SBHT = 234 degf.
After firing the gun 3264 psia, 235 degf.

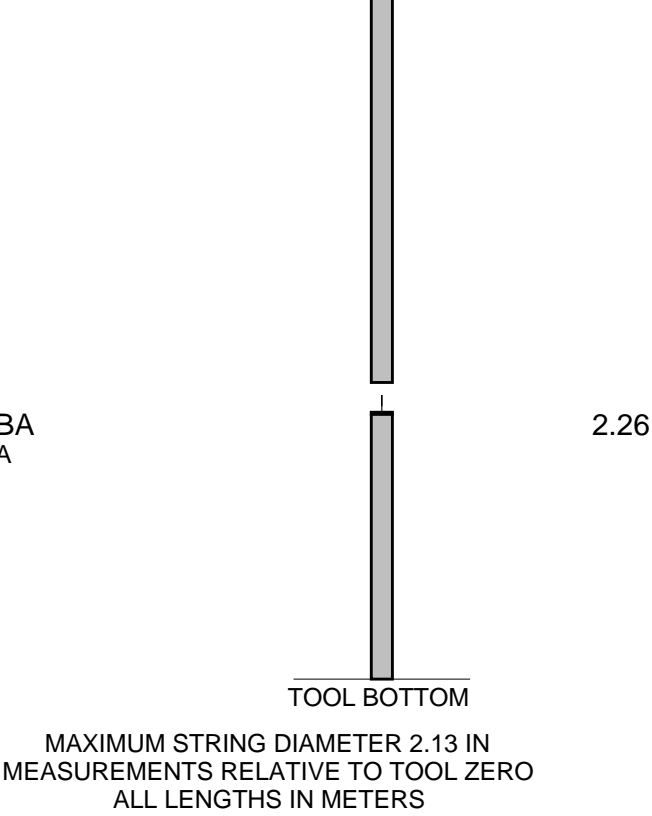
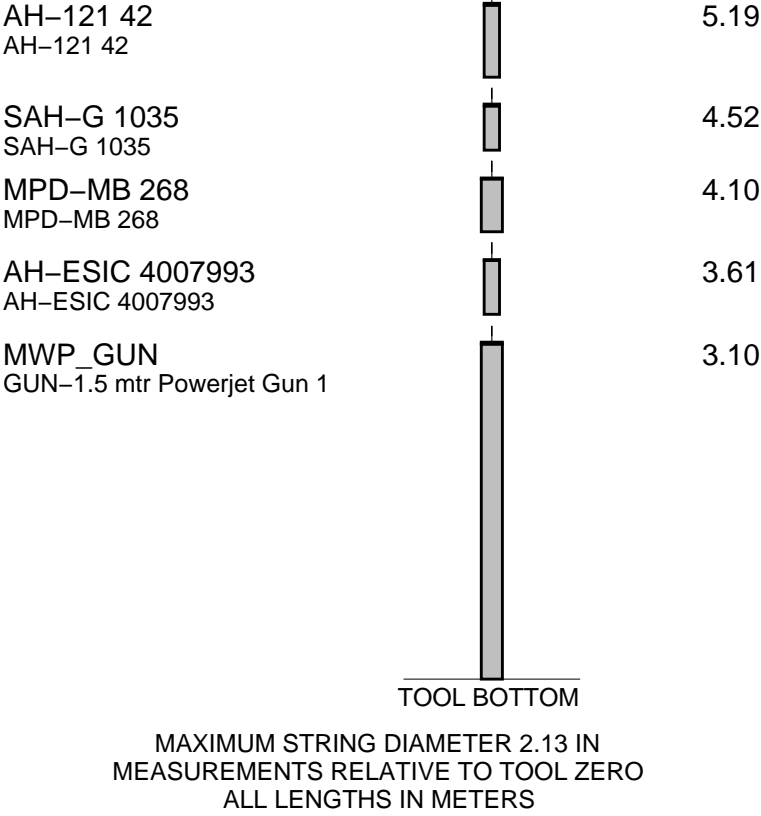
5.5" Mpbt plug was then set at 3068.5m MDKB, followed by water and cement dump runs.

Crew: Nathan Simmons & Andrew Pratt

| RUN 1 | | | RUN 2 | | |
|------------------|-------|------------|------------------|-------|------|
| SERVICE ORDER #: | | B69I-00008 | SERVICE ORDER #: | | |
| PROGRAM VERSION: | | 17C0-154 | PROGRAM VERSION: | | |
| FLUID LEVEL: | | 1195 m | FLUID LEVEL: | | |
| LOGGED INTERVAL | START | STOP | LOGGED INTERVAL | START | STOP |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

EQUIPMENT DESCRIPTION

| RUN 1 | | | RUN 2 | | |
|--|--|-----------|------------------------------|---|-----------|
| SURFACE EQUIPMENT | | | SURFACE EQUIPMENT | | |
| MWPM-3000 | | | MPBM | | |
| DOWNHOLE EQUIPMENT | | | DOWNHOLE EQUIPMENT | | |
| AH-SWBS 784 AH-SWBS 784 |  | 13.05 | AH-SWBS 784 AH-SWBS 784 |  | 13.04 |
| AH-SWBS 785 AH-SWBS 785 |  | 12.36 | AH-SWBS 785 AH-SWBS 785 |  | 12.35 |
| AH-SWBS 786 AH-SWBS 786 |  | 11.68 | AH-SWBS 786 AH-SWBS 786 |  | 11.67 |
| AH-SWBS 787 AH-SWBS 787 |  | 10.99 | AH-SWBS 787 AH-SWBS 787 |  | 10.98 |
| AH-SWBS 788 AH-SWBS 788 |  | 10.31 | AH-SWBS 788 AH-SWBS 788 |  | 10.29 |
| MH-SWHS 759 MH-SWHS 759 |  | 9.62 | MH-SWHS 759 MH-SWHS 759 |  | 9.61 |
| AH-124 7002 |  | 9.14 | | | |
| MWGT-AA MWPG-AA 24029 MWGH-AA 69 |  MWPG GR | 8.99 | CCL-L 9851 CCL-L 9851 |  | 9.13 |
| MWPT-CA BLK2 MWPH-AA 74 MWPS-AA 74 |  | 8.01 | MPSU-CA 1011 MPSU-CA 1011 |  | 8.67 |
| | CCL SMWP Pres SMWP Temp Tension | TOOL ZERO | | CCL Cable Cur Head Volt Tension | TOOL ZERO |



Client: Esso Australia Pty Ltd

Well: FLA A15

Field: Flounder

State: Victoria

Country: Australia

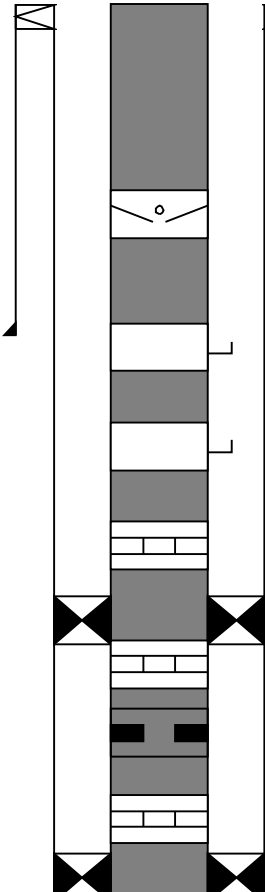
Rig Name: Prod 4 / Crane

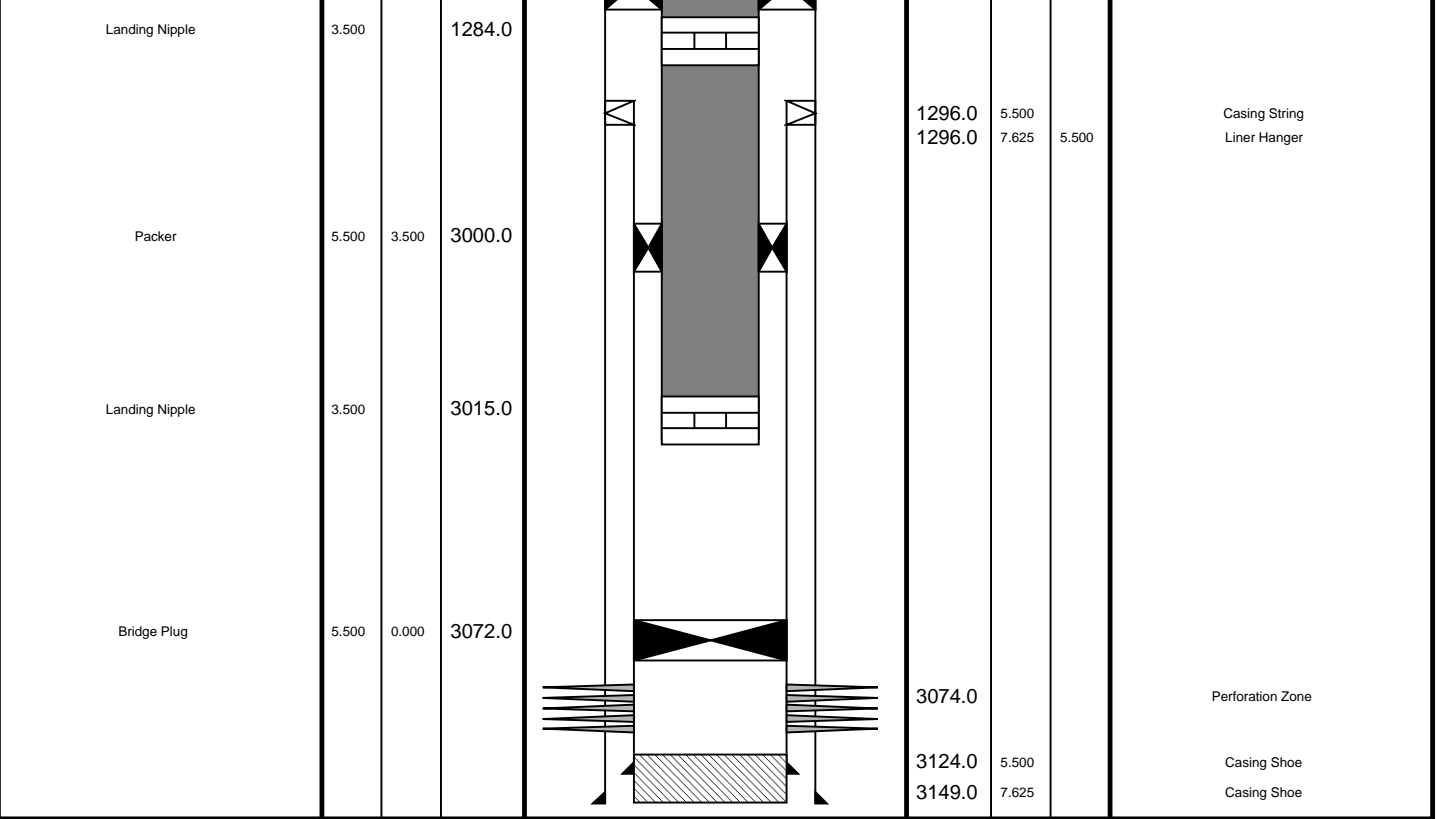
Reference Datum: Mean Sea Level

Elevation: 34.2 m

Drawing Date: 9/12/2009

API #:

| Production String | (in) | | (m) | Well Schematic | (m) | (in) | | Casing String |
|-------------------|-------|-------|--------|---|--------------|------------------|-------|-------------------------------|
| | OD | ID | MD | | MD | OD | ID | |
| Tubing | 3.500 | | 12.0 |  | 13.0 14.0 | 10.375 10.375 | 7.625 | Casing String Liner Hanger |
| SSSV | 3.500 | | 457.0 | | | | | |
| Gas Lift Mandrel | 3.500 | | 863.0 | | 644.0 | 10.375 | | Casing Shoe |
| Gas Lift Mandrel | 3.500 | | 1210.0 | | | | | |
| Landing Nipple | 3.500 | | 1226.0 | | | | | |
| Packer | 7.625 | 3.500 | 1238.0 | | | | | |
| Nipple | 3.500 | | 1245.0 | | | | | |
| Expansion joint | 3.500 | | 1249.0 | | | | | |
| No Go Nipple | 3.500 | | 1266.0 | | | | | |
| Packer | 7.625 | 3.500 | 1269.0 | | | | | |



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

| | | Time | Elapsed Time | Depth (M) | | File |
|----------------------------------|-------------------|--------|-----------------|-----------|--|--------------|
| Simulated Log | 17-Sep-2009 9:49 | 000:02 | | | | PERFO_047LUP |
| OP checking MWPT | | | | | | |
| Log Pass (up) | 17-Sep-2009 11:41 | 000:05 | 3068.6 - 3012.6 | | | PERFO_060LUP |
| Gun Correlation pass | | | | | | |
| Log Pass (up) | 17-Sep-2009 11:49 | 000:32 | 3066.9 - 3003.5 | | | PERFO_061LUP |
| Gun Shooting pass | | | | | | |
| Station Log | 17-Sep-2009 11:51 | 000:24 | 3060.0 | | | PERFO_062LTP |
| Gun Station log | | | | | | |
| Simulated Log | 17-Sep-2009 13:44 | 000:01 | | | | PERFO_068LDP |
| OP Checked Dummy plug toolstring | | | | | | |
| Log Pass (up) | 17-Sep-2009 14:26 | 000:07 | 3072.2 - 2983.4 | | | PERFO_071LUP |
| Dummy plug correlation pass | | | | | | |
| Log Pass (down) | 18-Sep-2009 11:43 | 000:10 | 2967.7 - 3061.6 | | | CCL_093LDP |
| MPBT correlation pass | | | | | | |

| | | | | | |
|-------------------------|-------------------|--------|----------|--------|--------------|
| Simulated Log | 18-Sep-2009 11:53 | 000:18 | | | CCL_094LUP |
| MPBT setting record | | | | | |
| Simulated Log | 18-Sep-2009 13:55 | 000:08 | | | PERFO_102LUP |
| OP checking dump bailer | | | | | |
| Log Pass (up) | 18-Sep-2009 15:20 | 000:06 | 3059.6 - | 2986.0 | PERFO_104LUP |
| Dump bailer water run | | | | | |
| Log Pass (up) | 18-Sep-2009 17:30 | 000:06 | 3060.5 - | 2986.9 | PERFO_107LUP |
| Dump bailer cement run | | | | | |

Schlumberger

2 1/8" Dump Bailer Cement Dumping Record

MAXIS Field Log

Input DLIS Files

| | | | | | | |
|---------|--------------|--------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_107LUP | FN:105 | PRODUCER | 18-Sep-2009 17:30 | 3060.5 M | 2986.9 M |
|---------|--------------|--------|----------|-------------------|----------|----------|

Output DLIS Files

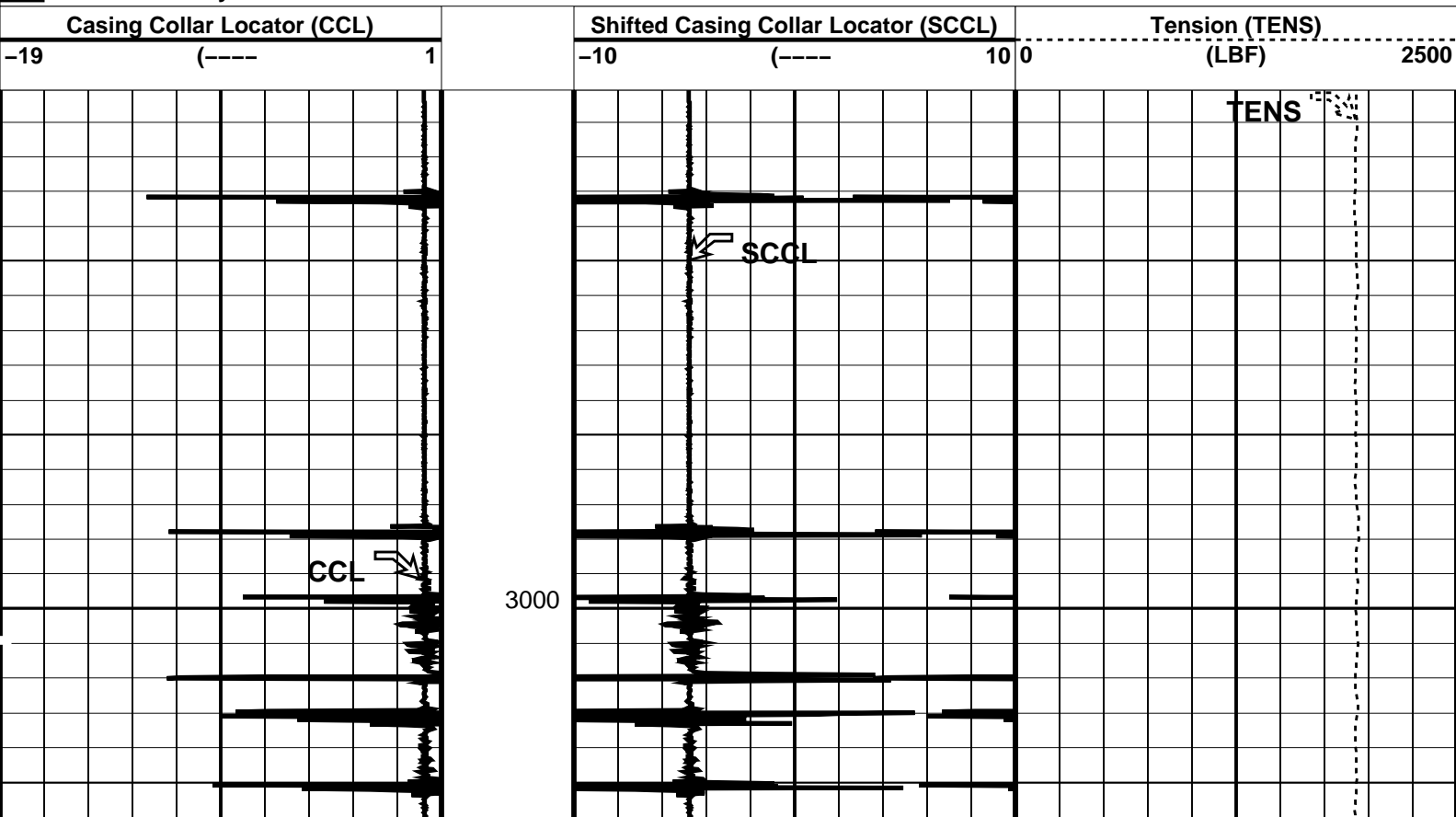
| | | | | | | |
|---------|--------------|--------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_113PUP | FN:111 | PRODUCER | 19-Sep-2009 07:11 | 3058.7 M | 2985.1 M |
|---------|--------------|--------|----------|-------------------|----------|----------|

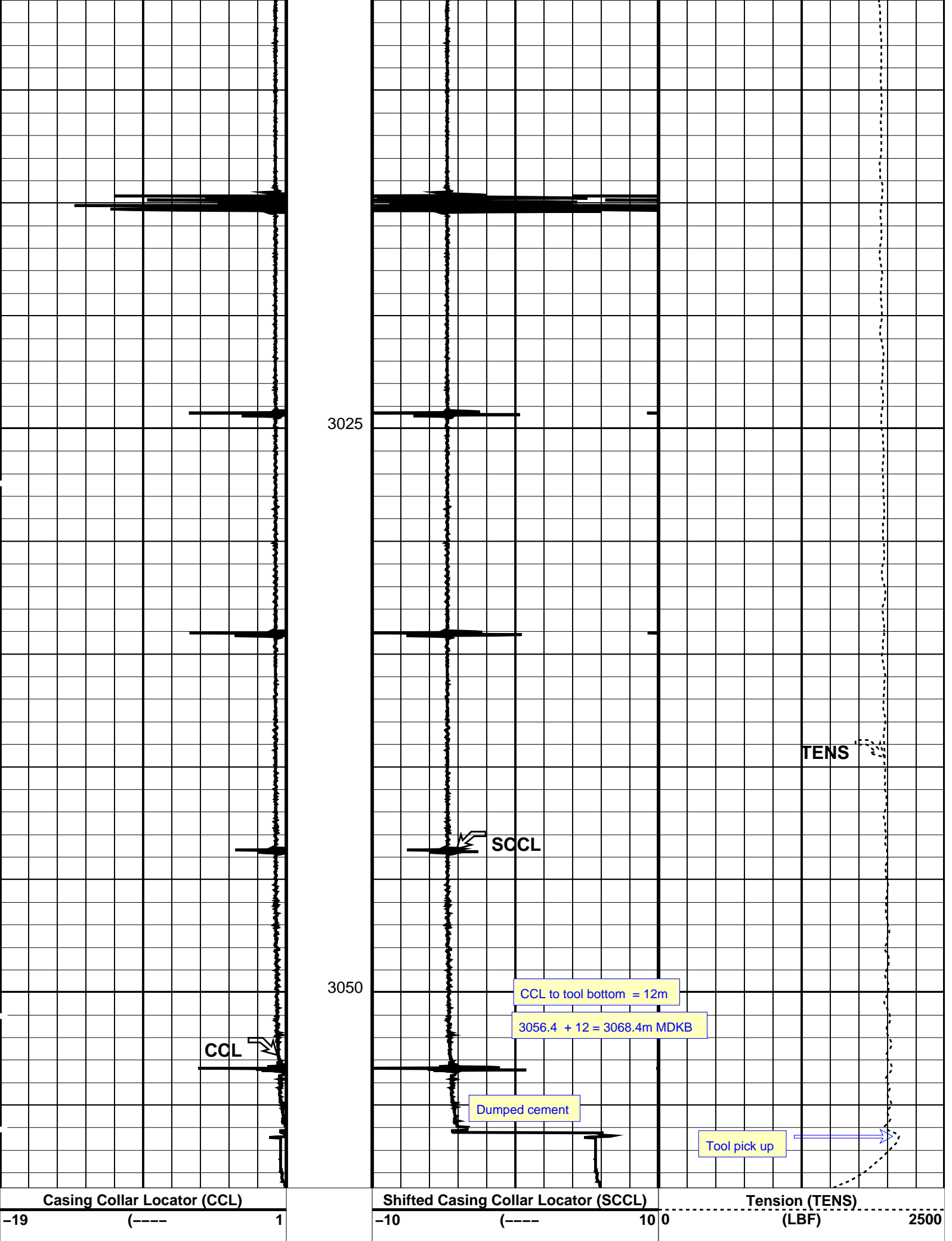
OP System Version: 17C0-154

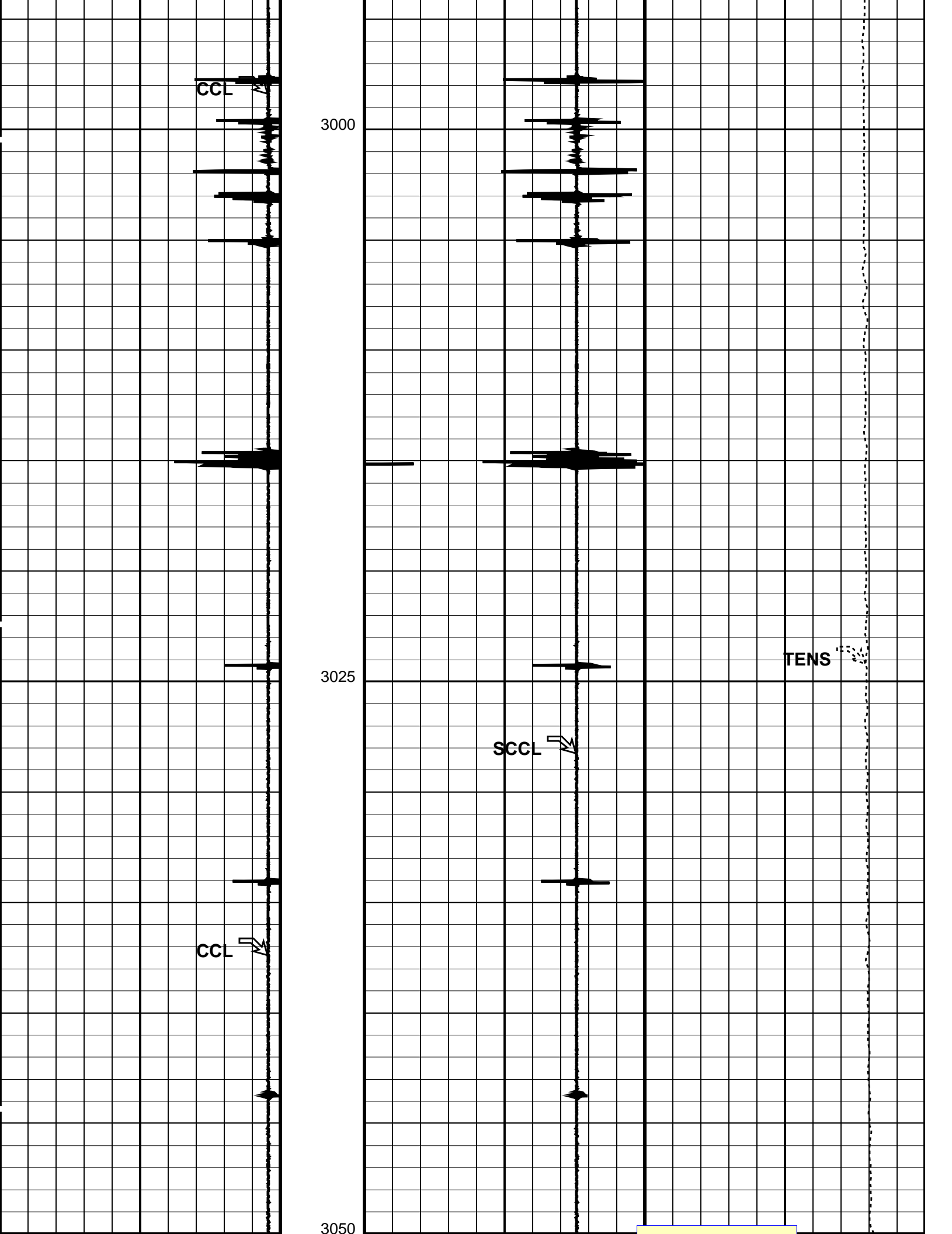
| | | | |
|-------|----------|---------|----------|
| CCL-L | 17C0-154 | SHM_GUN | 17C0-154 |
|-------|----------|---------|----------|

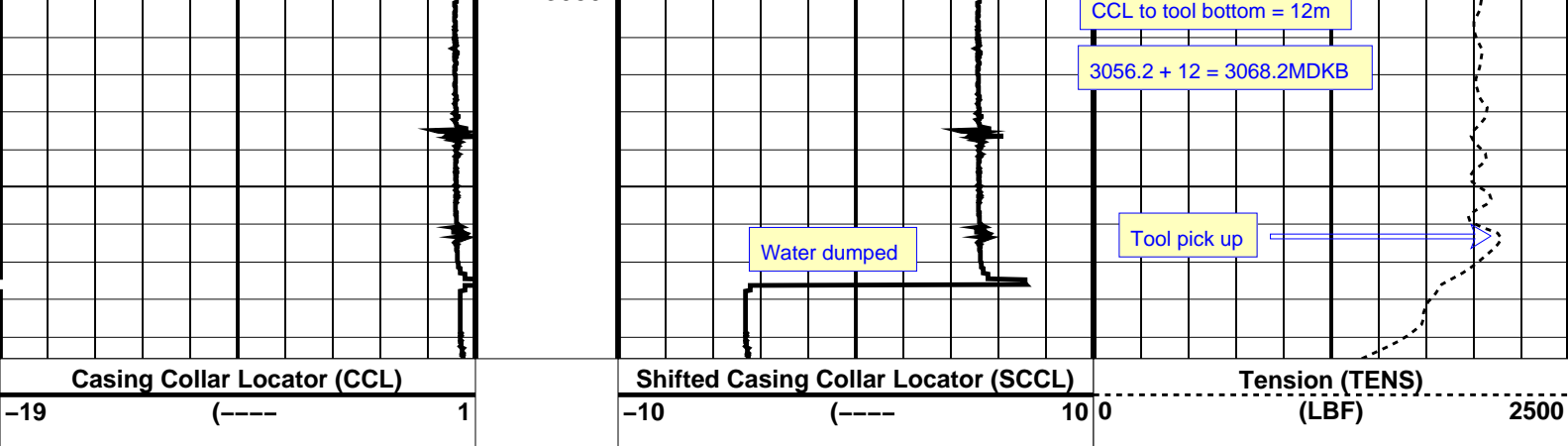
PIP SUMMARY

☒ Time Mark Every 60 S









PIP SUMMARY

Time Mark Every 60 S

Parameters

| DLIS Name | Description | Value |
|-----------|------------------------------|--------|
| CCLD | CCL-L: Casing Collar Locator | 12 IN |
| CCLT | CCL reset delay | 0.3 V |
| | CCL Detection Level | |
| DO | System and Miscellaneous | 0.0 M |
| PP | Depth Offset for Playback | |
| | Playback Processing | NORMAL |

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 19-Sep-2009 07:07

OP System Version: 17C0-154

CCL-L 17C0-154 SHM_GUN 17C0-154

Input DLIS Files

DEFAULT PERFO_104LUP FN:102 PRODUCER 18-Sep-2009 15:20 3059.6 M 2986.0 M

Output DLIS Files

DEFAULT PERFO_111PUP FN:109 PRODUCER 19-Sep-2009 07:07

Schlumberger

5 1/2" Posiset MPBT Plug Setting Record

MAXIS Field Log

Output DLIS Files

DEFAULT CCL_094LUP FN:92 PRODUCER 18-Sep-2009 11:53

OP System Version: 17C0-154

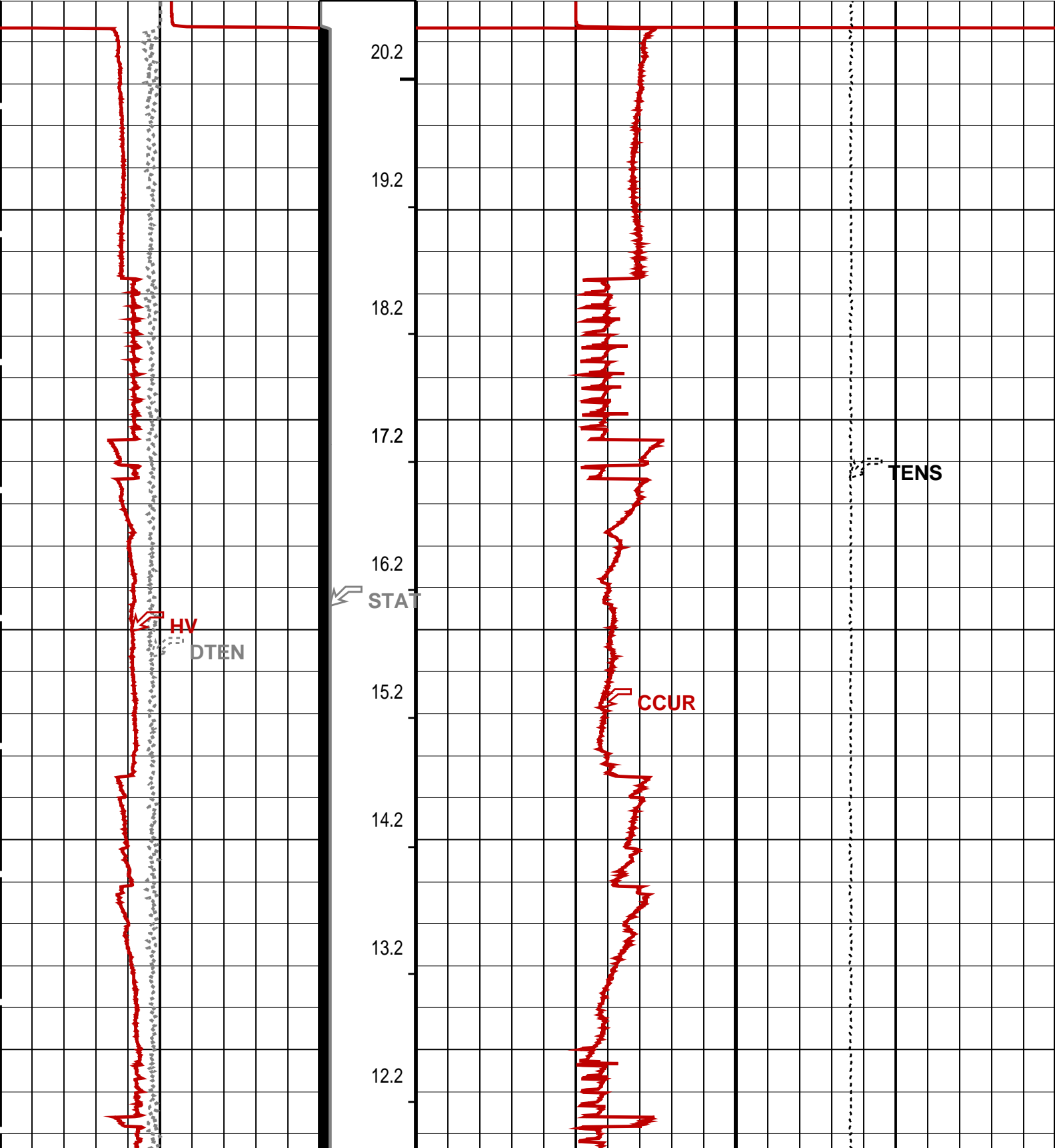
MPEX-CA 17C0-154 MPSU-CA 17C0-154
CCL-L 17C0-154

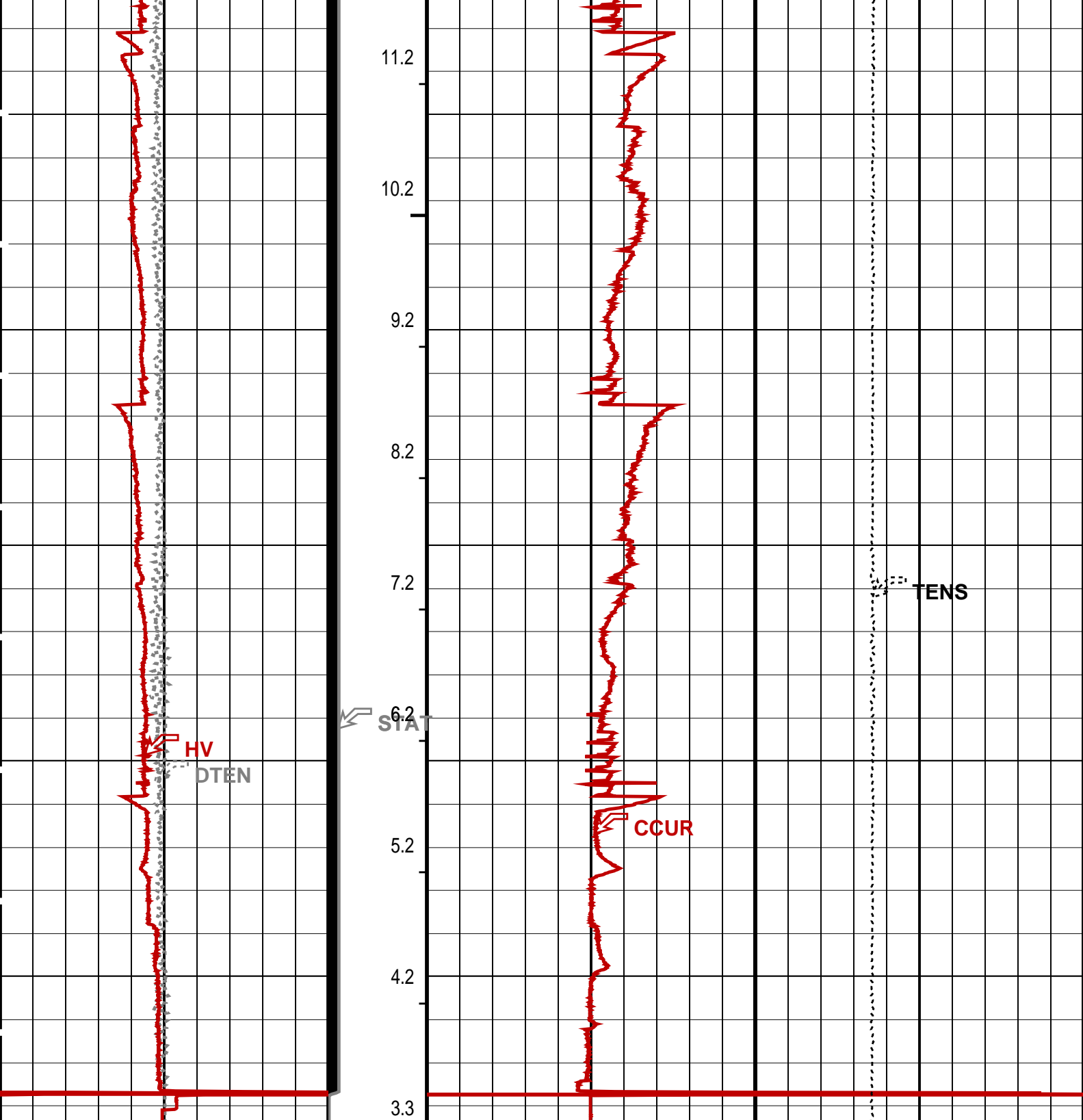
PIP SUMMARY

→ MPSU Run Time Every 1 MN
→ MPSU Run Time Every 10 MN

| | | | | |
|------------------------|-----|------------------------|----------------|-------|
| | | RUN Time (RTIM) (MN) | | |
| MPSU Head Voltage (HV) | | MPSU Run Status (STAT) | Tension (TENS) | |
| 250 | (V) | 350 | 2000 | (LBF) |
| | | 0 (----10 | 0 | |

| | | |
|-----------------------------|-------------------------|---------------------------|
| Differential Tension (DTEN) | ON/Int From D3T to STAT | MPBM Cable Current (CCUR) |
| -200 | | 300 |
| (LBF) | | (MA) |
| 200 | | 700 |





| | | | |
|--------------------------------------|-------------------------------|-----------------------------------|-------------------------|
| Differential Tension (DTEN) (LBF) | ON/Int From D3T to STAT | MPBM Cable Current (CCUR) (MA) | Tension (TENS) (LBF) |
| 250 (V) | MPSU Run Status (STAT) | 300 (MA) | 2000 (LBF) |
| 350 | 0 (----10) | 700 | 0 |
| | RUN Time (RTIM) (MN) | | |

PIP SUMMARY

- ↵ MPSU Run Time Every 1 MN
- ↠ MPSU Run Time Every 10 MN

| Parameters | | | |
|-----------------------------|---|--|----------------------------|
| DLIS Name | Description | Value | |
| IPUMP | MPSU-CA: MECHANICAL PLUGBACK SETTING UNIT Intensifier Pump | TRUE | |
| Format: MPBT | Vertical Scale: 1:600 | Graphics File Created: 18-Sep-2009 11:53 | |
| OP System Version: 17C0-154 | | | |
| MPEX-CA | 17C0-154 | MPSU-CA | 17C0-154 |
| CCL-L | 17C0-154 | | |
| Output DLIS Files | | | |
| DEFAULT | CCL_094LUP | FN:92 | PRODUCER 18-Sep-2009 11:53 |

Schlumberger

5 1/2" Posiset MPBT Plug Setting pass

MAXIS Field Log

Input DLIS Files

| | | | | | |
|---------|-----------------|----------|-------------------|----------|----------|
| DEFAULT | Flip_CCL_115LUP | PRODUCER | 19-Sep-2009 07:25 | 3061.6 M | 2967.7 M |
|---------|-----------------|----------|-------------------|----------|----------|

Output DLIS Files

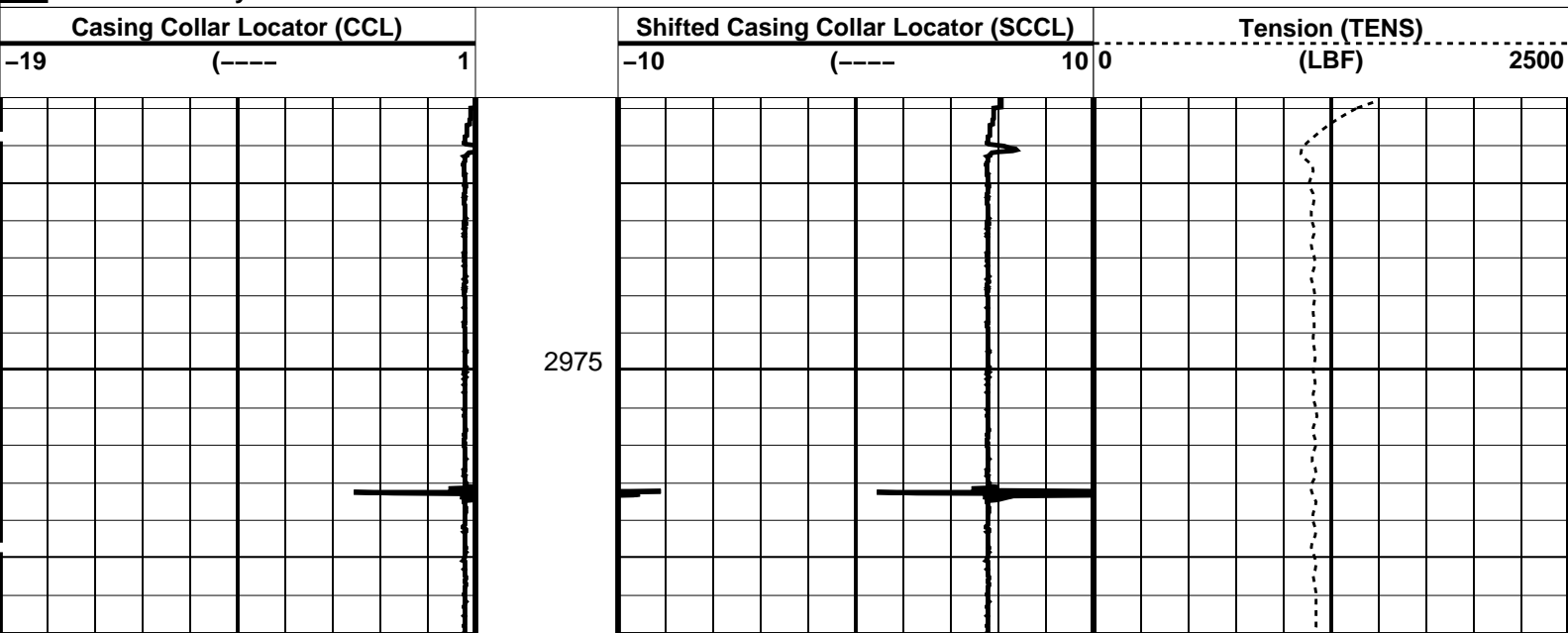
| | | | | | | |
|---------|--------------|--------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_116PUP | FN:112 | PRODUCER | 19-Sep-2009 07:25 | 3061.7 M | 2967.7 M |
|---------|--------------|--------|----------|-------------------|----------|----------|

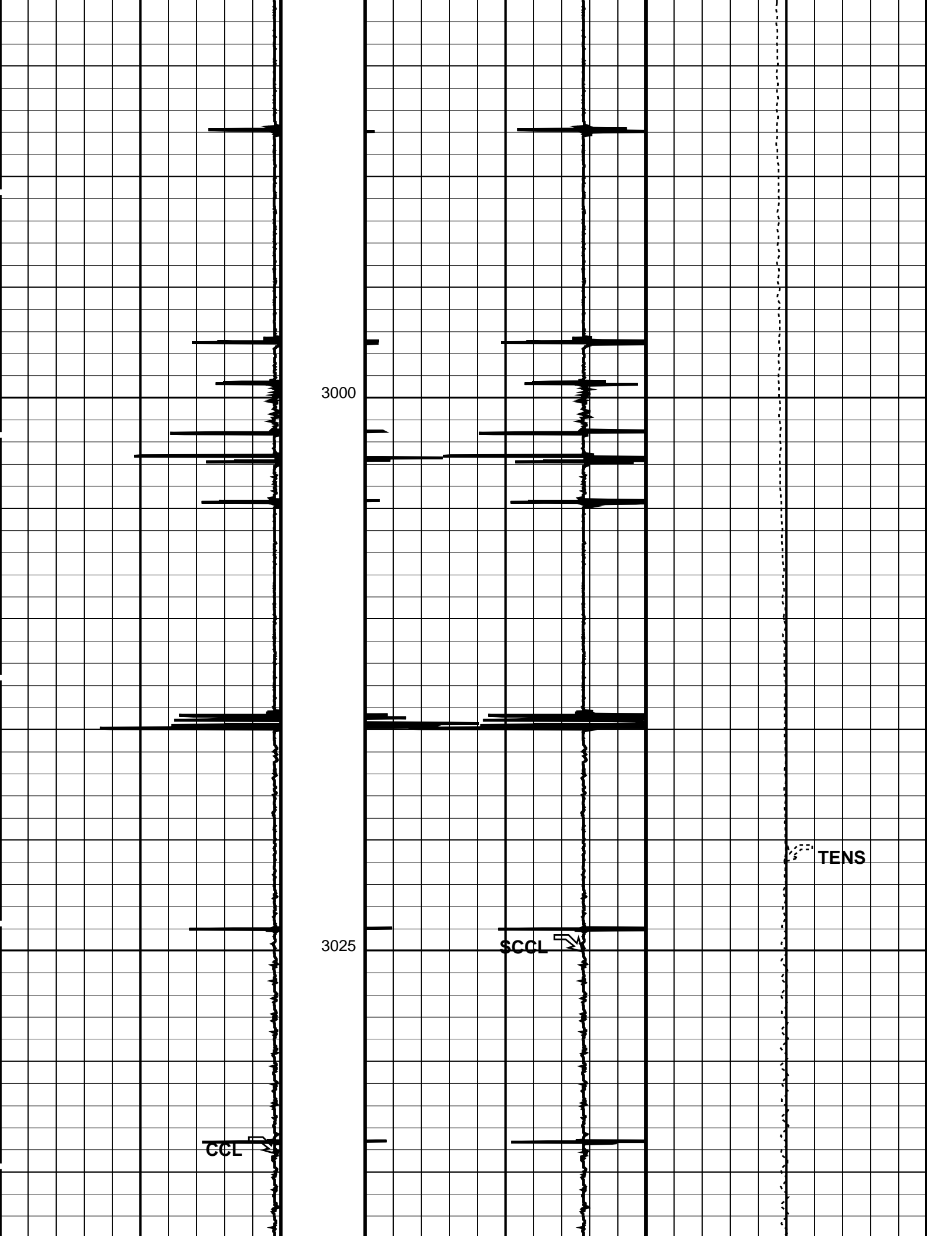
OP System Version: 17C0-154

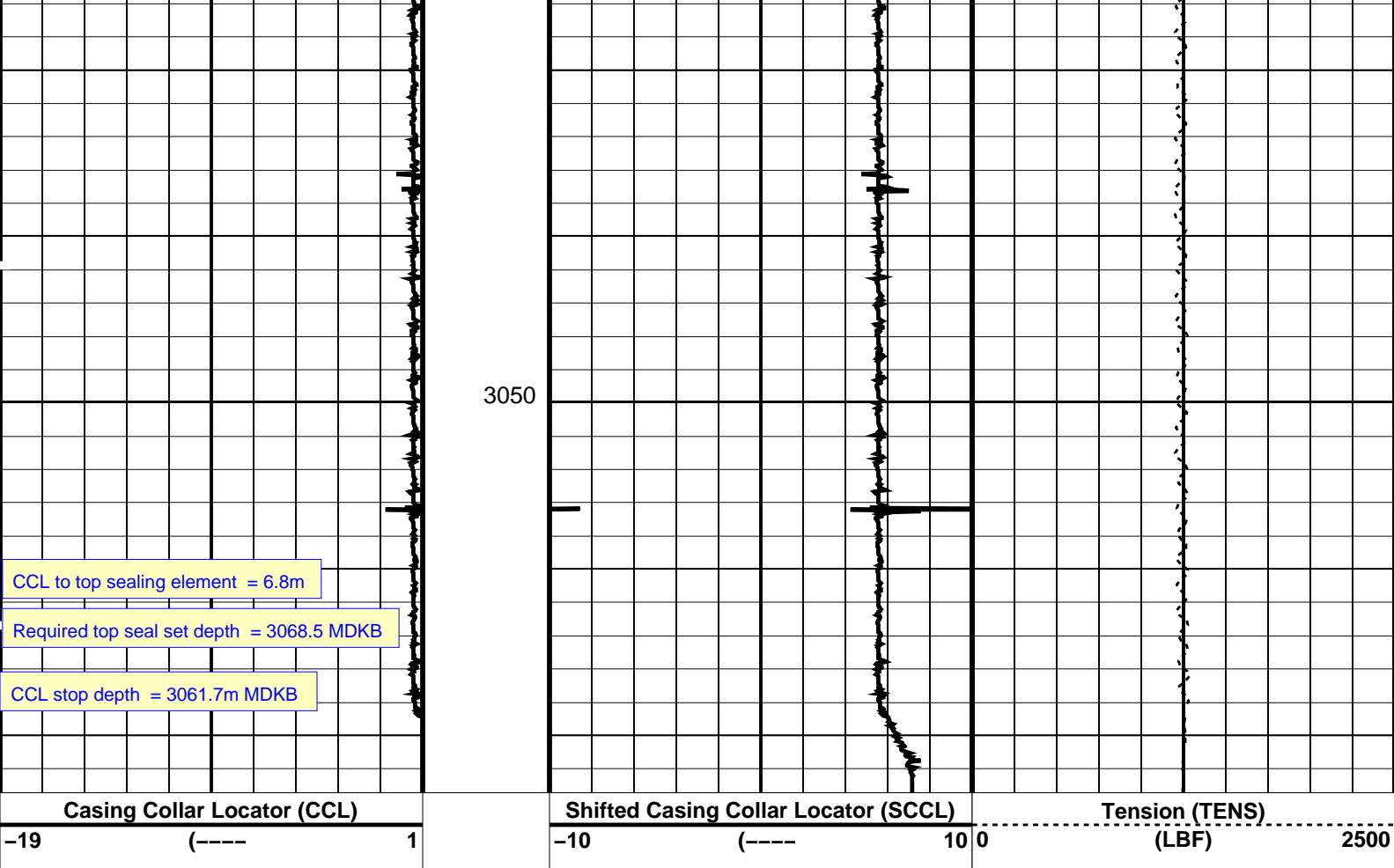
| | | | |
|-------|----------|---------|----------|
| CCL-L | 17C0-154 | SHM GUN | 17C0-154 |
|-------|----------|---------|----------|

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

| DLIS Name | Description | Value |
|-----------|------------------------------|--------|
| CCLD | CCL-L: Casing Collar Locator | 12 IN |
| CCLT | CCL reset delay | 0.3 V |
| | CCL Detection Level | |
| DO | System and Miscellaneous | 0.0 M |
| PP | Depth Offset for Playback | NORMAL |
| | Playback Processing | |

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 19-Sep-2009 07:26

OP System Version: 17C0-154

CCL-L 17C0-154 SHM_GUN 17C0-154

Input DLIS Files

DEFAULT Flip_CCL_115LUP PRODUCER 19-Sep-2009 07:25 3061.6 M 2967.7 M

Output DLIS Files

DEFAULT PERFO_116PUP FN:112 PRODUCER 19-Sep-2009 07:25

Schlumberger

**1 11/16" Dummy Plug
Correlation Pass**

Company: Esso Australia Pty Ltd.

Well: A-8

Input DLIS Files

| | | | | | | |
|---------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_071LUP | FN:69 | PRODUCER | 17-Sep-2009 14:26 | 3072.2 M | 2983.4 M |
|---------|--------------|-------|----------|-------------------|----------|----------|

Output DLIS Files

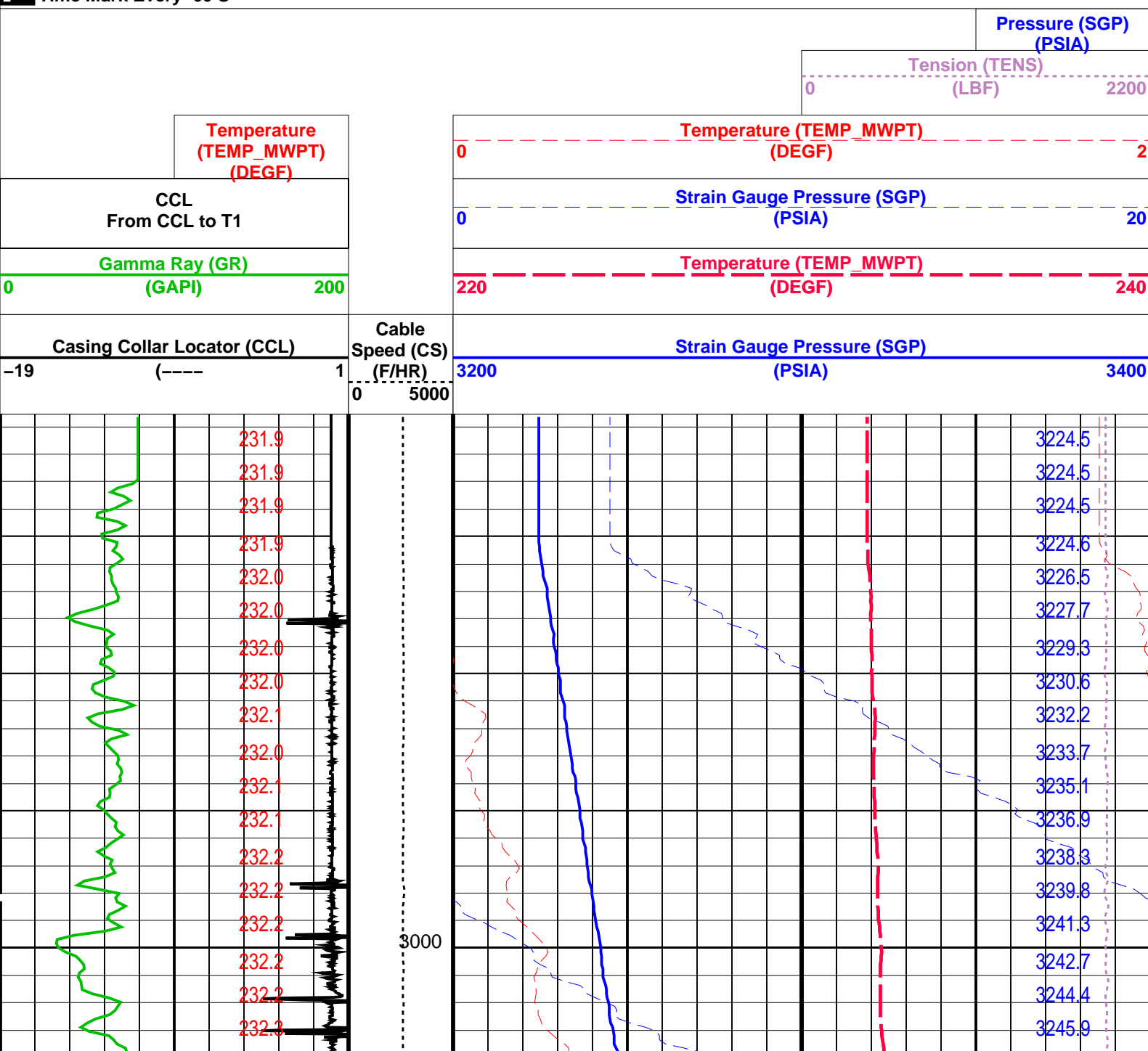
| | | | | | | |
|---------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_076PUP | FN:74 | PRODUCER | 17-Sep-2009 15:34 | 3071.8 M | 2980.5 M |
|---------|--------------|-------|----------|-------------------|----------|----------|

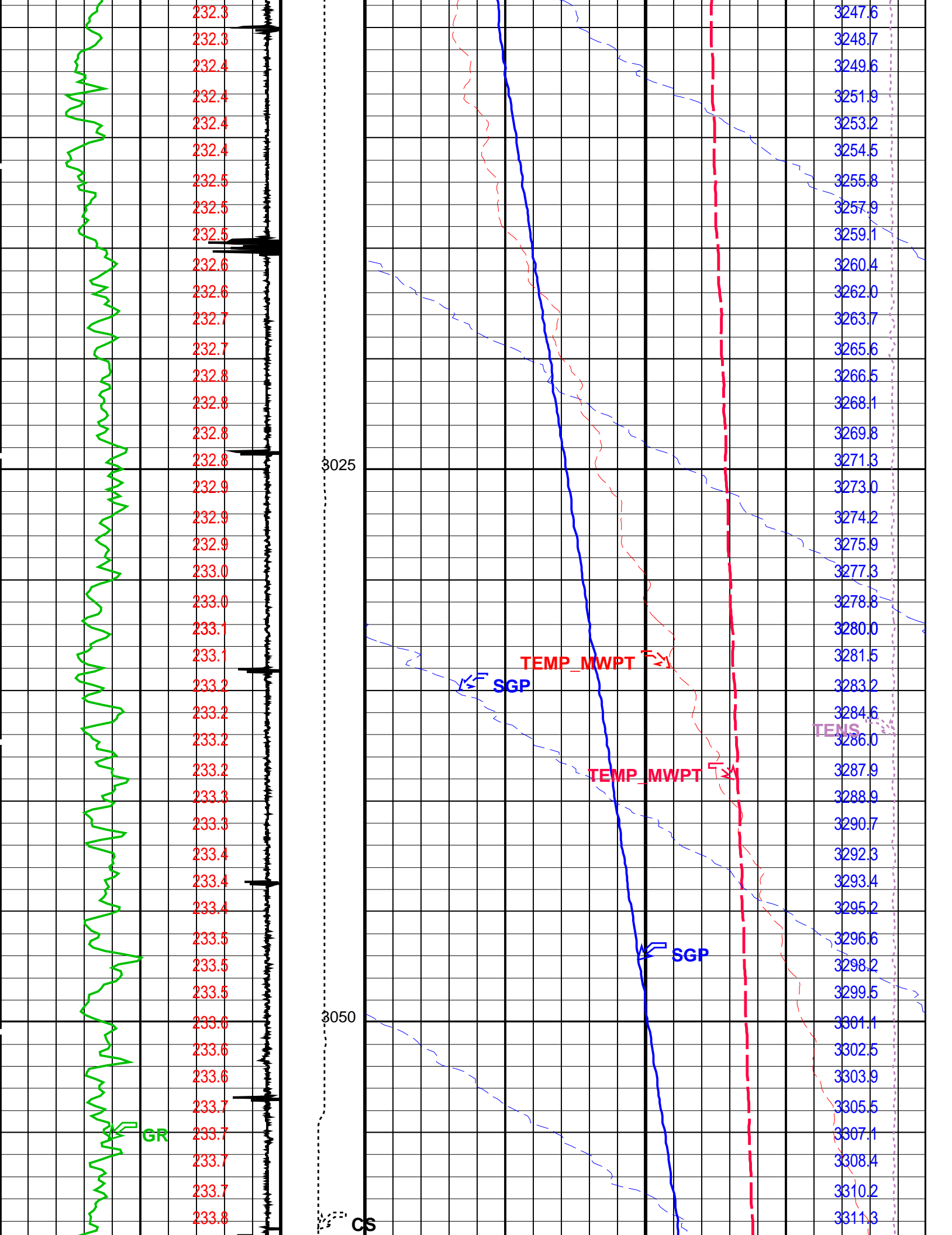
OP System Version: 17C0-154

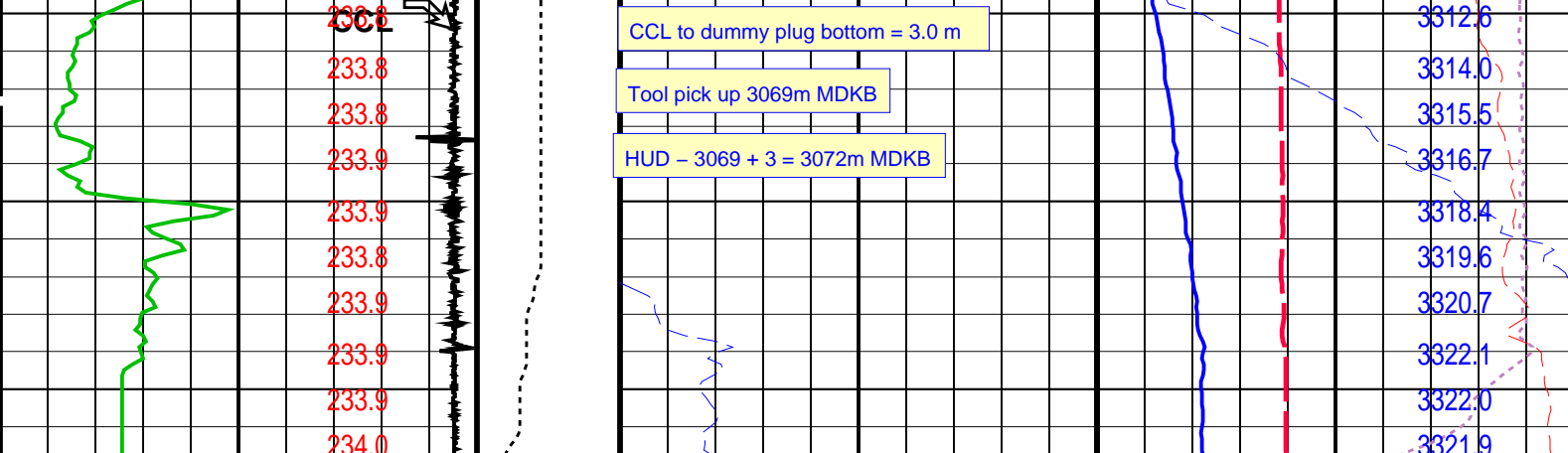
| | | | |
|---------|----------|---------|----------|
| MWP_GUN | 17C0-154 | MWPT-CA | 17C0-154 |
| MWGT-AA | 17C0-154 | | |

PIP SUMMARY

Time Mark Every 60 S







| Casing Collar Locator (CCL) | | Cable Speed (CS) (F/HR) | Strain Gauge Pressure (SGP) (PSIA) | |
|--------------------------------|-------|-------------------------|------------------------------------|------|
| -19 | (---- | 1 | 3200 | 3400 |
| | | 0 5000 | | |
| Gamma Ray (GR) (GAPI) | | | Temperature (TEMP_MWPT) (DEGF) | |
| 0 | 200 | | 220 | 240 |
| CCL From CCL to T1 | | | Strain Gauge Pressure (SGP) (PSIA) | |
| | | | 0 | 20 |
| Temperature (TEMP_MWPT) (DEGF) | | | Temperature (TEMP_MWPT) (DEGF) | |
| | | | 0 | 2 |
| | | | Tension (TENS) (LBF) | |
| | | | 0 | 2200 |
| | | | Pressure (SGP) (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 | -0.4 M |
| PP | Playback Processing | NORMAL |

Format: MWP Vertical Scale: 1:200 Graphics File Created: 17-Sep-2009 15:34

OP System Version: 17C0-154

| | | | |
|---------|----------|---------|----------|
| MWP_GUN | 17C0-154 | MWPT-CA | 17C0-154 |
| MWGT-AA | 17C0-154 | | |

Input DLIS Files

| | | | | | | |
|---------|--------------|-------|----------|-------------------|----------|----------|
| DEFAULT | PERFO_071LUP | FN:69 | PRODUCER | 17-Sep-2009 14:26 | 3072.2 M | 2983.4 M |
|---------|--------------|-------|----------|-------------------|----------|----------|

Output DLIS Files

| | | | | |
|---------|--------------|-------|----------|-------------------|
| DEFAULT | PERFO_076PUP | FN:74 | PRODUCER | 17-Sep-2009 15:34 |
|---------|--------------|-------|----------|-------------------|

Company: Esso Australia Pty Ltd.

Well: A-8

Input DLIS Files

DEFAULT PERFO_062LTP FN:60 PRODUCER 17-Sep-2009 11:51 3060.0 M

Output DLIS Files

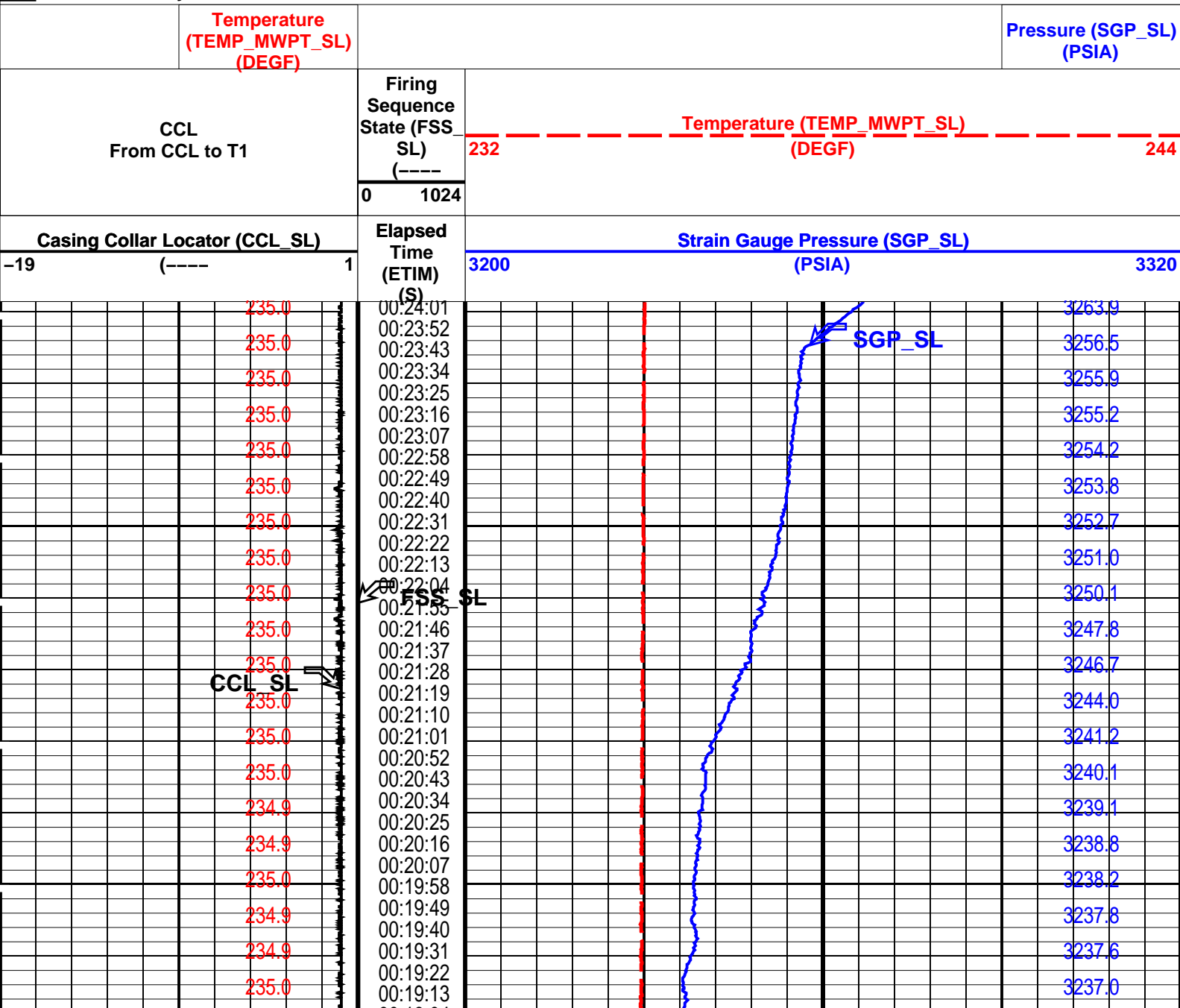
DEFAULT PERFO_080PTP FN:78 PRODUCER 18-Sep-2009 08:08 3060.0 M

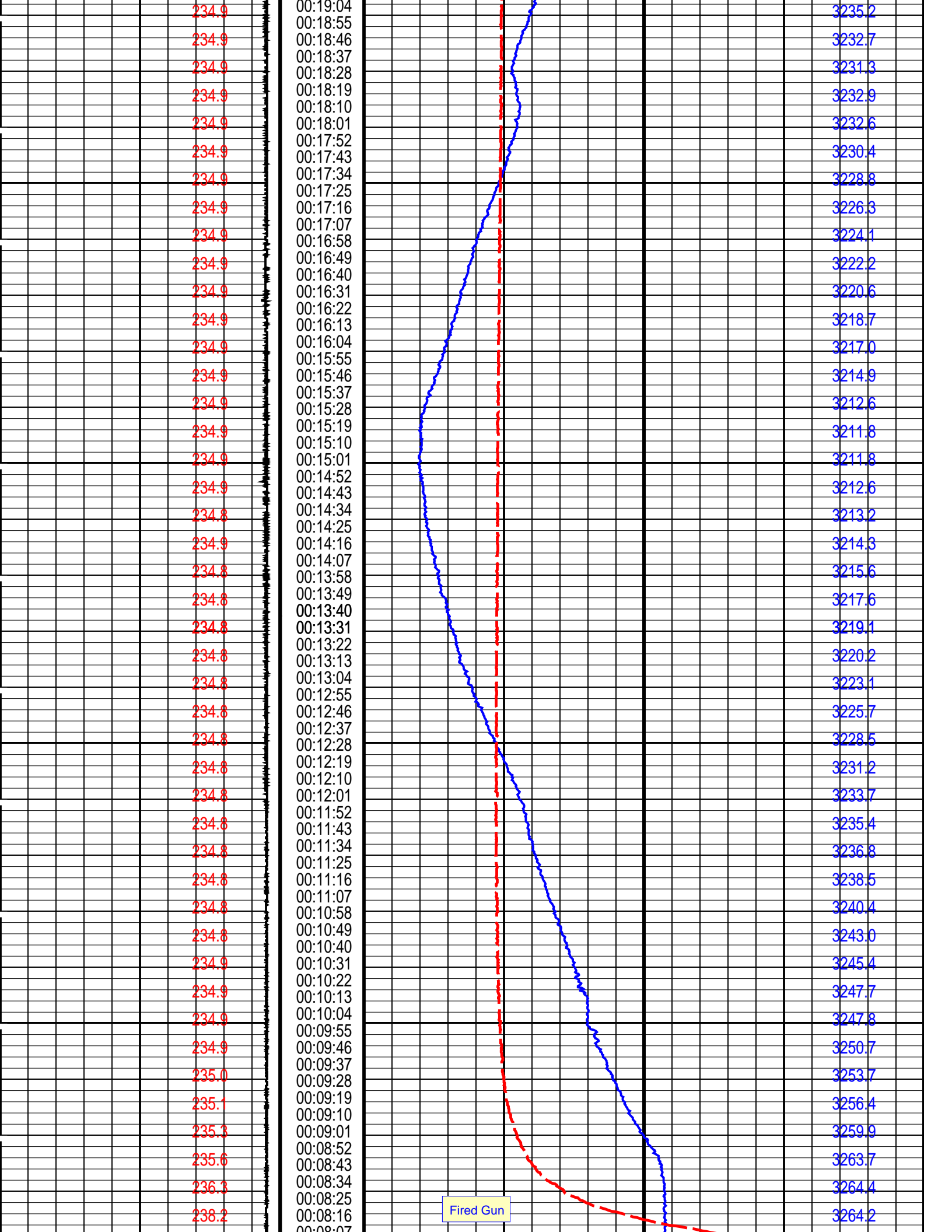
OP System Version: 17C0-154

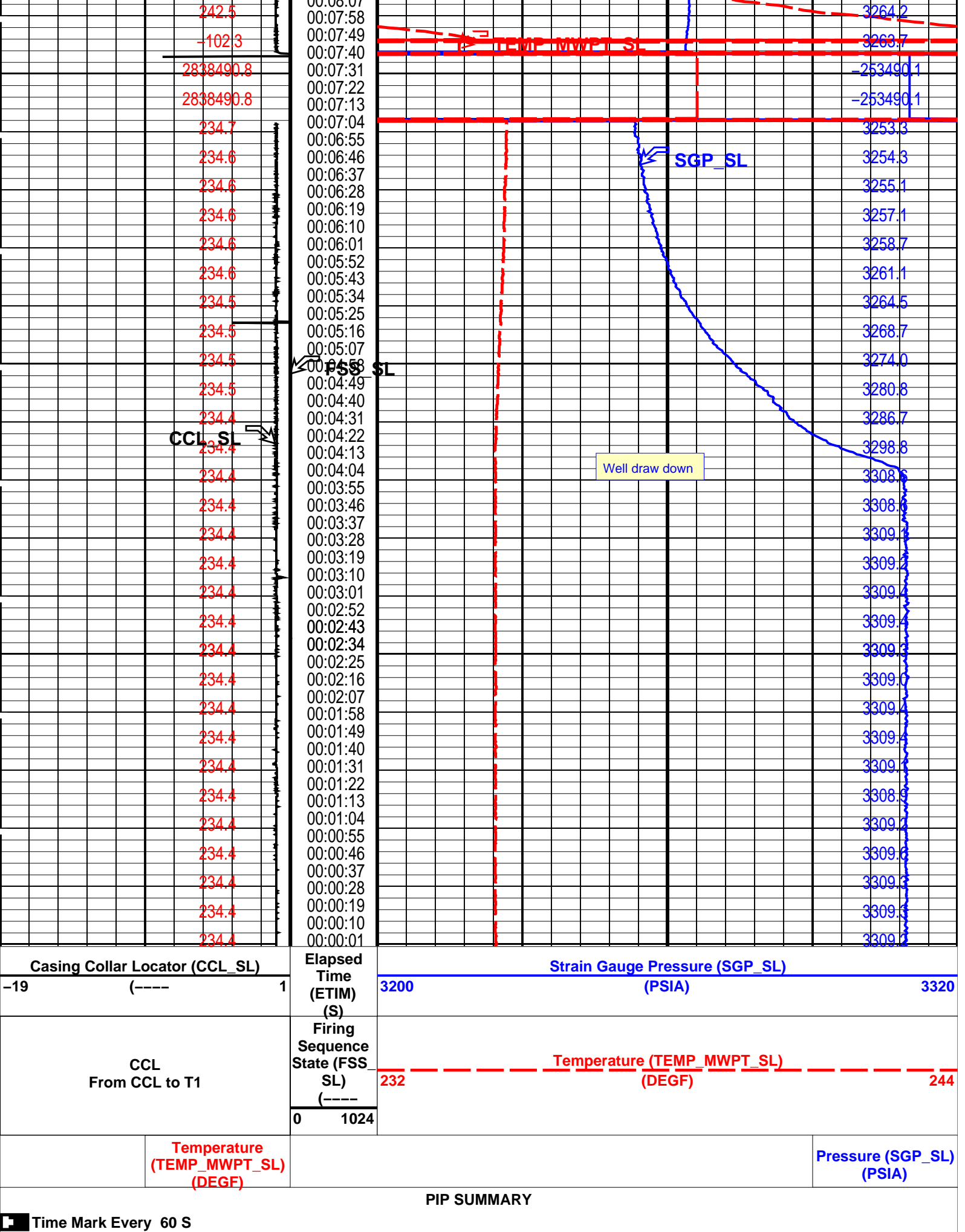
MWP_GUN 17C0-154 MWPT-CA 17C0-154
MWGT-AA 17C0-154

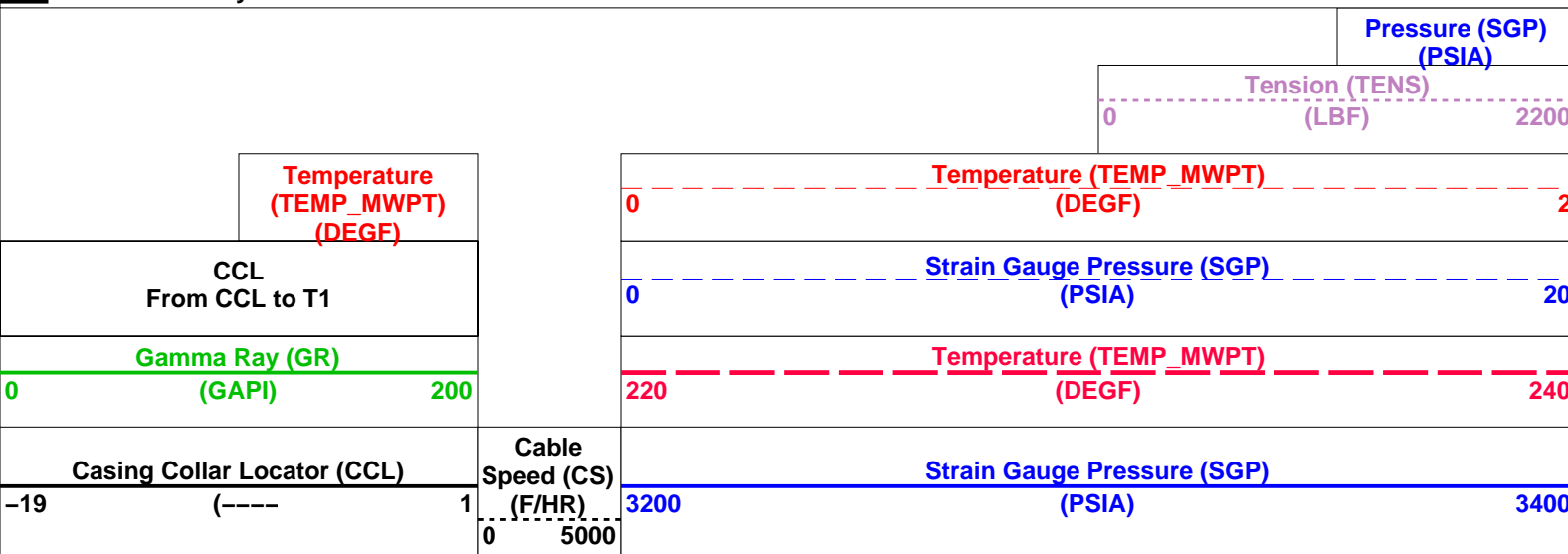
PIP SUMMARY

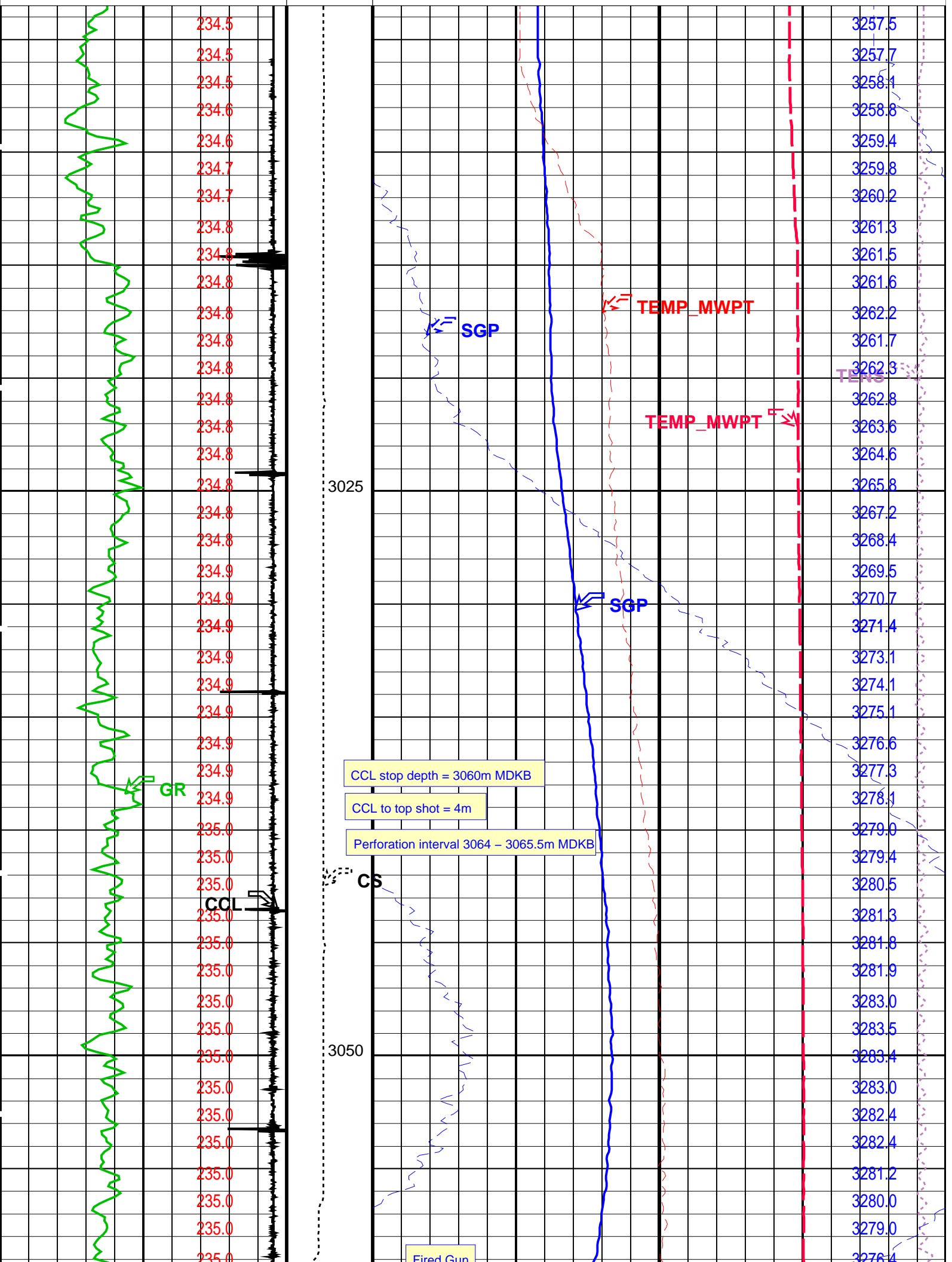
Time Mark Every 60 S

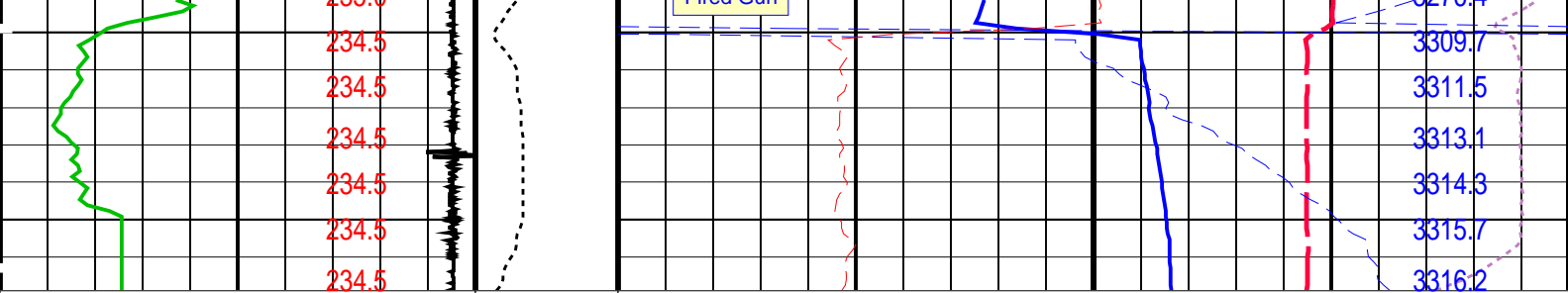












| | | | | |
|--------------------------------------|--|-------------------------------|-------------------------------------|--|
| Casing Collar Locator (CCL) | | Cable Speed (CS) (F/HR) | Strain Gauge Pressure (SGP) | |
| -19 (----) 1 | | | 3200 (PSIA) 3400 | |
| 0 | | | 220 (DEGF) 240 | |
| Gamma Ray (GR) (GAPI) 200 | | | 0 (PSIA) 20 | |
| CCL From CCL to T1 | | 0 | Temperature (TEMP_MWPT) (DEGF) 2 | |
| Temperature (TEMP_MWPT) (DEGF) | | | 0 (LBF) 2200 | |
| | | | Pressure (SGP) (PSIA) | |
| | | | | |

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: 17-Sep-2009 11:49

| OP System Version: 17C0-154 | | | |
|-----------------------------|----------|---------|----------|
| MWP_GUN | 17C0-154 | MWPT-CA | 17C0-154 |
| MWGT-AA | 17C0-154 | | |

| Output DLIS Files | | | |
|-------------------|--------------|----------------|-------------------|
| DEFAULT | PERFO_061LUP | FN:59 PRODUCER | 17-Sep-2009 11:49 |



2 1/8" Phased PowerJet MWPT
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-8

| Output DLIS Files | | | |
|-------------------|--------------|----------------|-------------------------------------|
| DEFAULT | PERFO_060LUP | FN:58 PRODUCER | 17-Sep-2009 11:41 3068.6 M 3012.6 M |

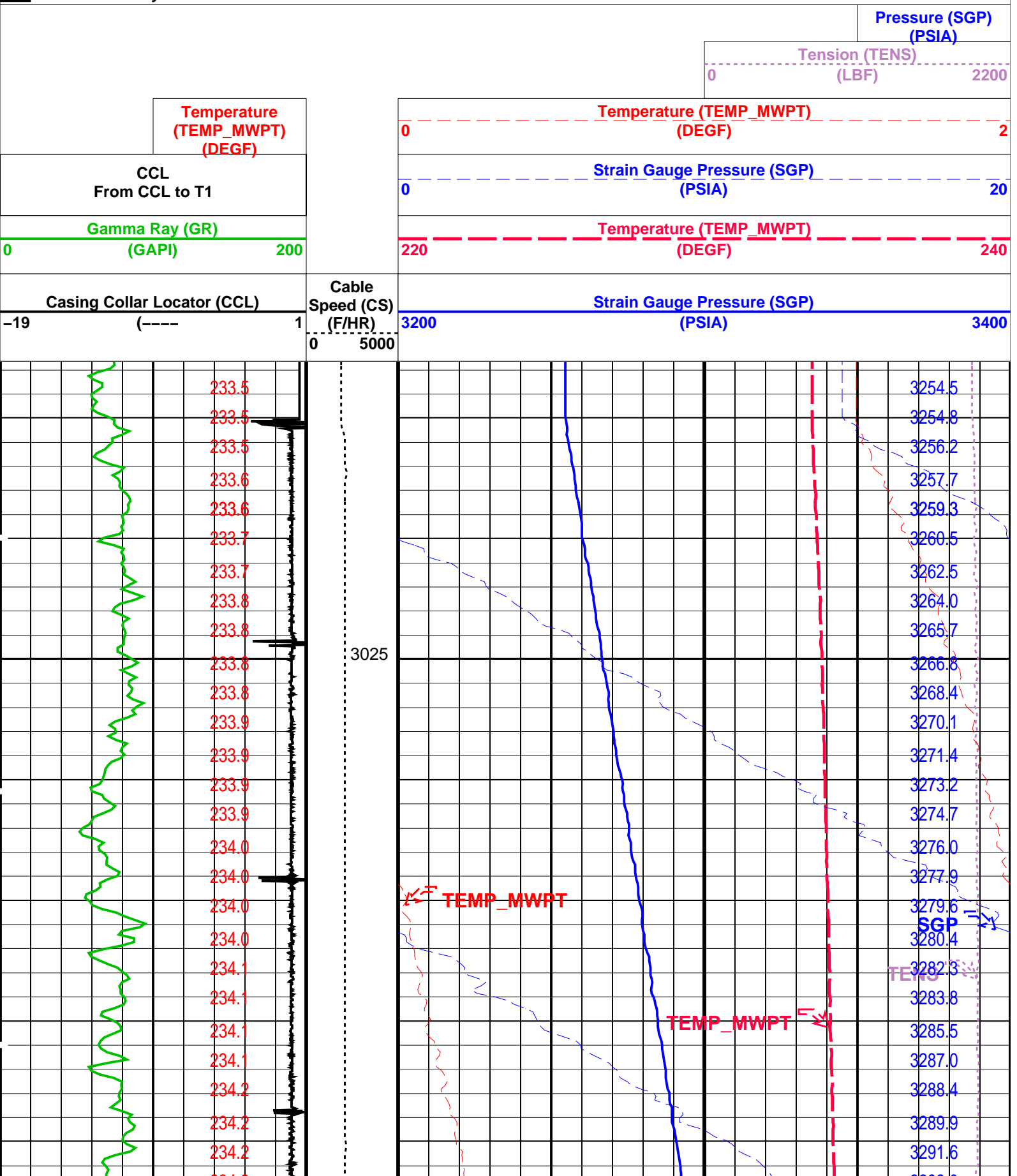
OP System Version: 17C0-154

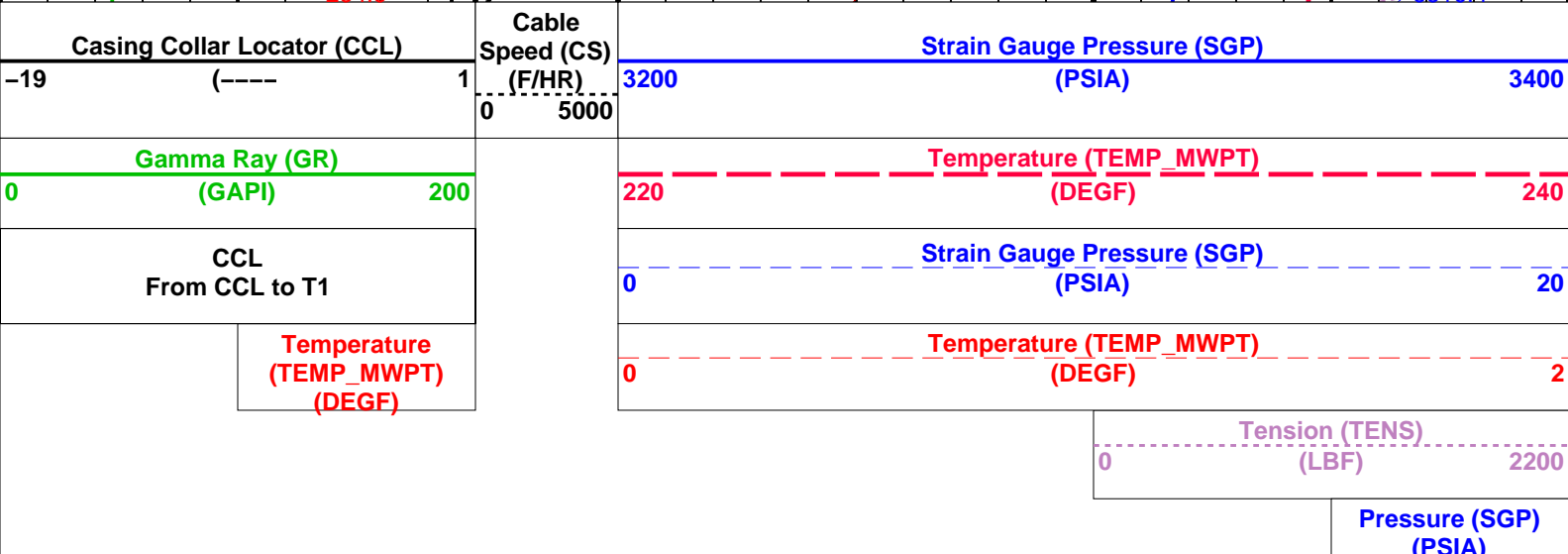
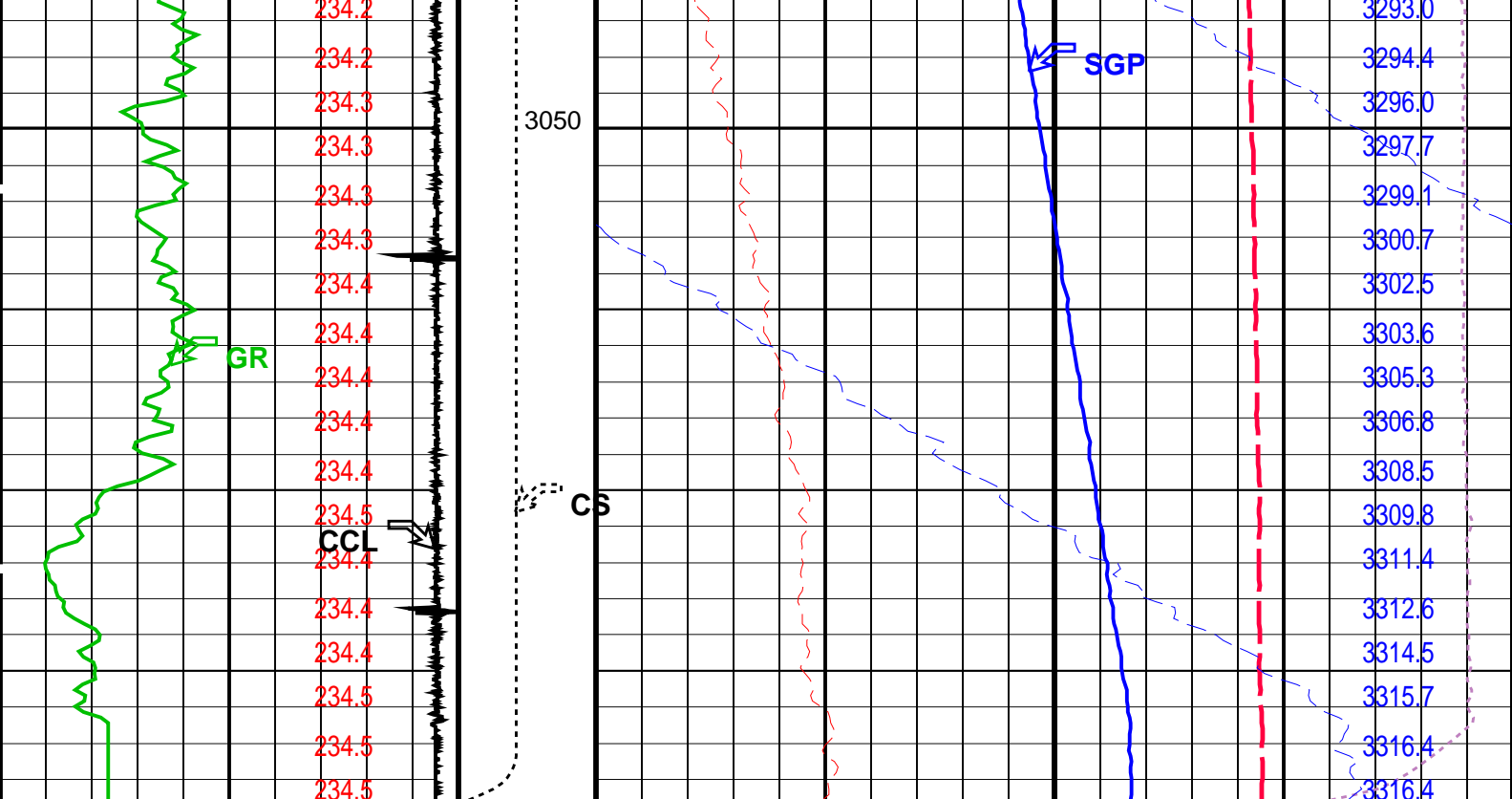
MWP_GUN 17C0-154
MWGT-AA 17C0-154

MWPT-CA 17C0-154

PIP SUMMARY

Time Mark Every 60 S





Time Mark Every 60 S

PIP SUMMARY

| 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: 17-Sep-2009 11:41

| OP System Version: 17C0-154 | | | |
|-----------------------------|----------|---------|----------|
| MWP_GUN | 17C0-154 | MWPT-CA | 17C0-154 |
| MWGT-AA | 17C0-154 | | |

| Output DLIS Files | | | |
|-------------------|--------------|----------------|-------------------|
| DEFAULT | PERFO_060LUP | FN:58 PRODUCER | 17-Sep-2009 11:41 |

MAXIS Field Log

Calibration and Check Summary

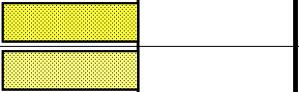


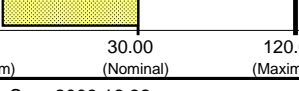
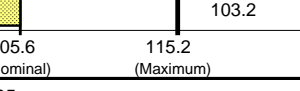
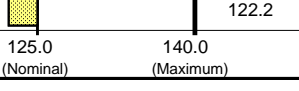
| Measurement | Nominal | Master | Before | After | Change | Limit | Units |
|--|---------|--------|--------|-------|----------|-------|-------|
| MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration – Detector Calibration | | | | | | | |
| Before: 14-Sep-2009 16:32 After: 14-Sep-2009 16:35 | | | | | | | |
| Gamma Ray (Signal) Background | 30.00 | N/A | 4.113 | 4.030 | -0.08312 | N/A | GAPI |
| Gamma Ray (Jig – Background) | 105.6 | N/A | 105.6 | 103.2 | -2.394 | 9.597 | GAPI |
| Gamma Ray (Calibrated) | 125.0 | N/A | 125.0 | 122.2 | -2.835 | 15.00 | GAPI |

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL / Equipment Identification

| | | |
|----------------------|-----------|-------|
| Primary Equipment: | | |
| GAMMA RAY CARTRIDGE | MWPG – AA | 24029 |
| Auxiliary Equipment: | | |
| GAMMA RAY HOUSING | MWGH – AA | 69 |

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration

Detector Calibration

| Phase | Gamma Ray (Signal) Background GAPI | Value | Phase | Gamma Ray (Jig – Background) GAPI | Value | Phase | Gamma Ray (Calibrated) GAPI | Value |
|---------------------------|---|--------------------|--------------------------|--|--------------------|--------------------|---|--------------------|
| Before |  | 4.113 | Before |  | 105.6 | Before |  | 125.0 |
| After |  | 4.030 | After |  | 103.2 | After |  | 122.2 |
| 0 (Minimum) | 30.00 (Nominal) | 120.0 (Maximum) | 95.97 (Minimum) | 105.6 (Nominal) | 115.2 (Maximum) | 110.0 (Minimum) | 125.0 (Nominal) | 140.0 (Maximum) |
| Before: 16-Sep-2009 16:32 | | | After: 16-Sep-2009 16:35 | | | | | |

Company: **Esso Australia Pty Ltd.**



Well: **A-15**

Field: **Flounder**

Rig: **Crane / Prod4**

Country: **Australia**

2-1/8" Phased Powerjet MWPT
Perforation Record
5 1/2" Posiset Plug Setting Record