

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------------|--|
| | | | | | | | | | | | | | | | | | | | | Rig : | Crane / Prod#4 | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------------|--|

Company: **Esso Australia Ltd.**Well: **A-4 b**Field: **Flounder**Rig : **Crane / Prod#4**Country: **Australia****RST-C Static
Sigma
Survey**Field: Flounder
Location: Gippsland
Well: A-4 b
Company: Esso Australia Ltd.

LOCATION

| | |
|-------------------------|-------------------------------|
| Gippsland | Elev.: K.B. 33.85 m |
| Basin | G.L. -93 m |
| Bass Strait | D.F. 33.2 m |
| Permanent Datum: | Mean sea level |
| Log Measured From: | Kelly bushing |
| Drilling Measured From: | Kelly bushing |
| State: Victoria | Max. Well Deviation 32 deg |
| | Longitude 148 26 17.49 E |
| | Latitude 038 18 45.24 S |

PVT DATA

| | | | |
|-------------------------------|---------|-------|-------|
| Oil Density | Run 1 | Run 2 | Run 3 |
| Water Salinity | | | |
| Gas Gravity | | | |
| Bo | | | |
| Bw | | | |
| 1/Bg | | | |
| Bubble Point Pressure | | | |
| Bubble Point Temperature | | | |
| Solution GOR | | | |
| Maximum Deviation | 32 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 | | | |

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

Barry White

DEPTH SUMMARY LISTING

Date Created: 9-FEB-2006 16:01:27

Depth System Equipment

| Depth Measuring Device | | Tension Device | | Logging Cable | |
|---------------------------|-------------|---------------------------|-------------|---|-----------|
| Type: | IDW-H | Type: | CMTD-B/A | Type: | 2-32ZT |
| Serial Number: | 797 | Serial Number: | 1037 | Serial Number: | 22372 |
| Calibration Date: | 01-May-2005 | Calibration Date: | 13-Jul-2005 | Length: | 5098.08 M |
| Calibrator Serial Number: | 1002 | Calibrator Serial Number: | 1037 | Conveyance Method: Wireline Rig Type: Offshore_Fixed | |
| Calibration Cable Type: | 2-23ZT | Calibration Gain: | 777.00 | | |
| Wheel Correction 1: | -3 | Calibration Offset: | 1.29 | | |
| Wheel Correction 2: | 2 | | | | |

Depth Control Parameters

| | |
|---------------------------|--------------------------------|
| Log Sequence: | Subsequent Log In the Well |
| Reference Log Name: | ExxonMobil solar compsite log. |
| Reference Log Run Number: | Unknown |
| Reference Log Date: | Unknown |

Depth Control Remarks

| |
|---|
| 1. Correlated to ExxonMobil sloar log provided by client. |
| 2. IDW used as primary depth control |
| 3. Z-Chart used as secondary depth control |

DISCLAIMER

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

| |
|------------------|
| OTHER SERVICES1 |
| OS1: Mwpt |
| OS2: Perforation |

| |
|---|
| REMARKS: RUN NUMBER 1 |
| Log correlated to ExxonMobil Solar composite log. |
| Maximum well deviation = 32 degrees at 2110m MDKB. |
| Two Sigma survey passes performed at 900 ft/hr from 2730 m MDKB |
| to 2640 m MDKB. |
| SBHP = 3311 psia, SBHT = 233 degf. |
| STHP = 875 pisa, STHT = 75 degf |
| |
| |
| |

Crew: Gary Martin and Andrew Hall.

| RUN 1 | | | RUN 2 | | |
|---------------------------|-------|------|------------------|-------|------|
| PROGRAM VERSION: 13C0-300 | | | PROGRAM VERSION: | | |
| FLUID LEVEL: | | | FLUID LEVEL: | | |
| LOGGED INTERVAL | START | STOP | LOGGED INTERVAL | START | STOP |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

EQUIPMENT DESCRIPTION

| RUN 1 | | | RUN 2 | | |
|---|--|--|-------|--|--|
| SURFACE EQUIPMENT | | | | | |
| WITM-A | | | | | |
| DOWNHOLE EQUIPMENT | | | | | |
| AH-SWBS AH-SWBS 763 | | | | | |
| AH-SWBS AH-SWBS 762 | | | | | |
| AH-SWBS AH-SWBS 761 | | | | | |
| AH-SWHS AH-SWHS 726 | | | | | |
| PSPT-A/B PSC-A PSPT-B PSTC PBMS-B 1835 CQG_F_Mano RTD_Thermometer GR CCL PBMS 1835 | | | | | |
| RST-C RSCH-A 111 RSC-C RSS-A 108 RSXH-A 145 RSX-C | | | | | |
| RSC-A For | | | | | |

RSC-A Pal
RSC-A PNG
RSC-A Nea
RSX-A PNG

4.09

Tension HV 0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 1.72 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client: Esso Australia. Ltd

Drawing Date: 2/7/2006

Well: A-4b

Field: Gippsland Basin

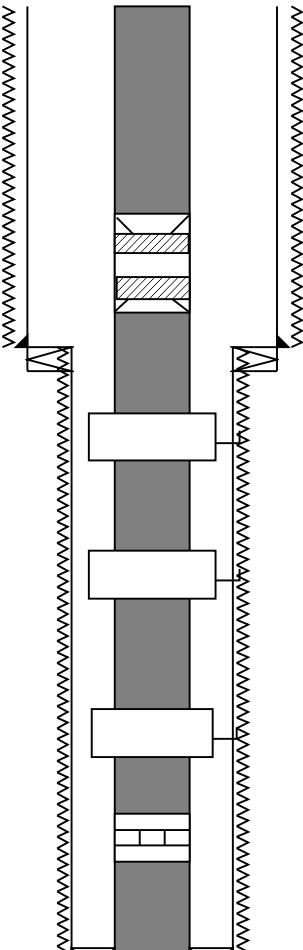
Rig Name: Flounder

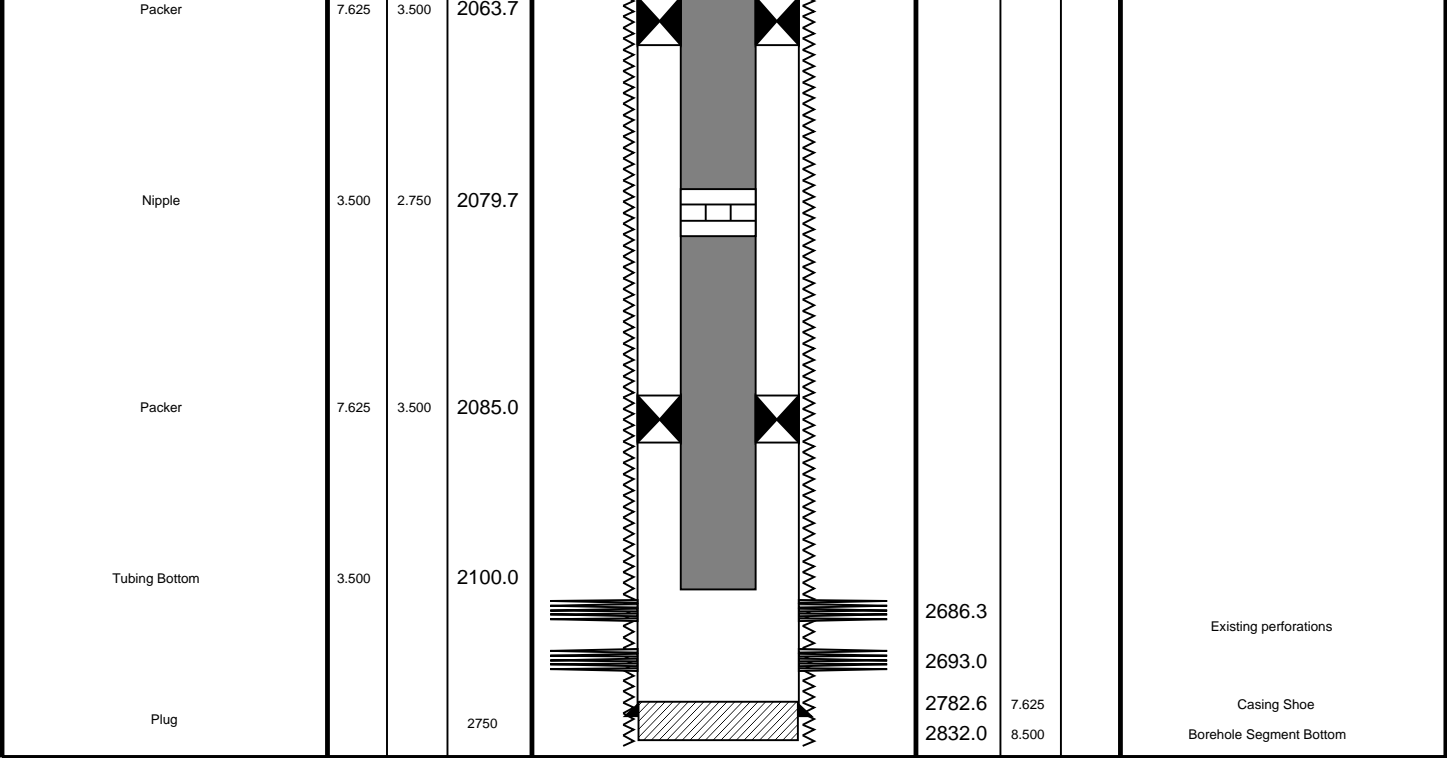
State: Victoria

Reference Datum: Mean Sea Level

Country: Australia

Elevation:

| Production String | (in) | | (m) | Well Schematic | (m) | (in) | | Casing String |
|-------------------|-------|-------|--------|---|-------------------------|---------------------------|-------|---|
| | OD | ID | MD | | MD | OD | ID | |
| Tubing | 3.500 | | 19.4 |  | 19.8 | 13.625 11.750 | | Borehole Segment Casing String |
| SSSV | | | 453.5 | | 587.2 587.2 587.2 | 13.625 8.500 11.750 | 7.625 | Borehole Segment Bottom Borehole Segment Liner Hanger Casing String, 44.3 kg/m, L-80 |
| Gas Lift Mandrel | 5.968 | 2.920 | 627.1 | | | | | |
| Gas Lift Mandrel | 5.968 | 2.920 | 818.1 | | | | | |
| Gas Lift Mandrel | 5.680 | 2.920 | 1000.0 | | | | | |
| Nipple | 3.500 | 2.750 | 1016.1 | | | | | |
| | | | | | | | | |



All depths are drillers depths



RST
Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

| Time | Elapsed Time | Depth (M) | File |
|--------------------|------------------|-----------|--------------------------------|
| Rig Up Started | 9-Feb-2006 7:00 | | |
| Log Pass (up) | 9-Feb-2006 8:58 | 000:10 | 2721.1 - 2618.7 RST_PSP_035LUP |
| Log Pass (up) | 9-Feb-2006 9:21 | 000:35 | 2737.6 - 2624.2 RST_PSP_039LUP |
| Log Pass (up) | 9-Feb-2006 10:01 | 000:30 | 2737.3 - 2623.7 RST_PSP_042LUP |
| Rig Down Completed | 9-Feb-2006 12:00 | | |

Company: Esso Australia Ltd. Well: A-4 b

Input DLIS Files

22-Feb-2006 09:12

Output DLIS Files

DEFAULT RST_PSP_006PUP FN:5 PRODUCER 22-Feb-2006 16:27 2747.6 M 2634.5 M

OP System Version: 13C0-300

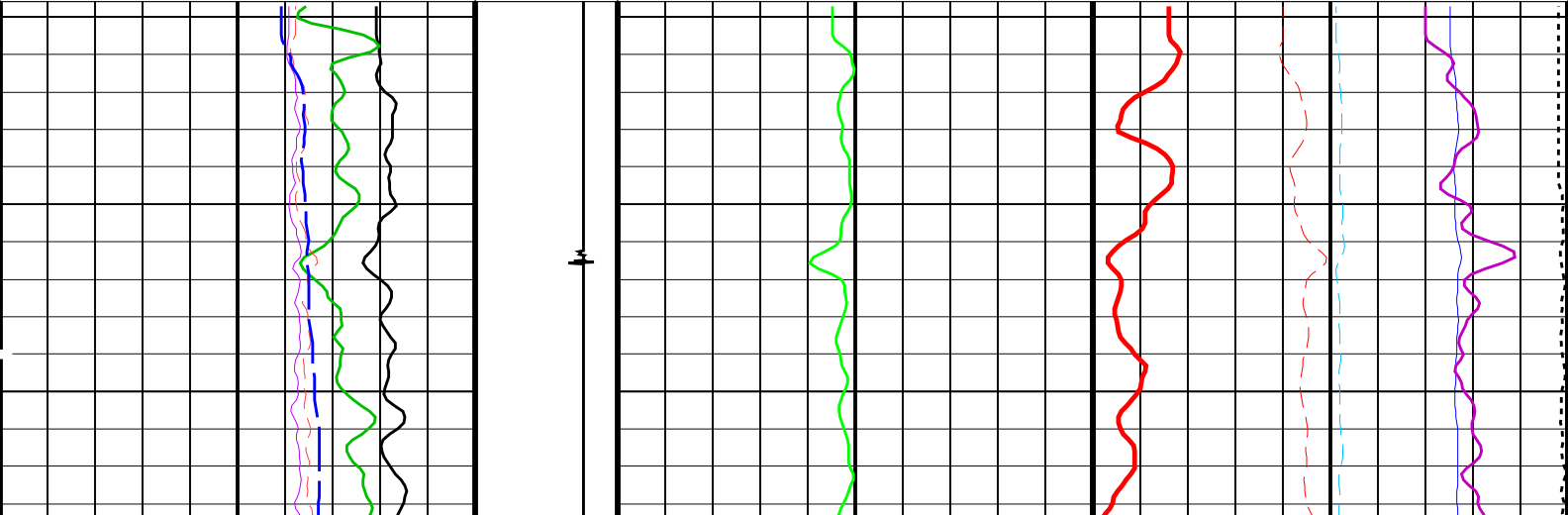
MCM

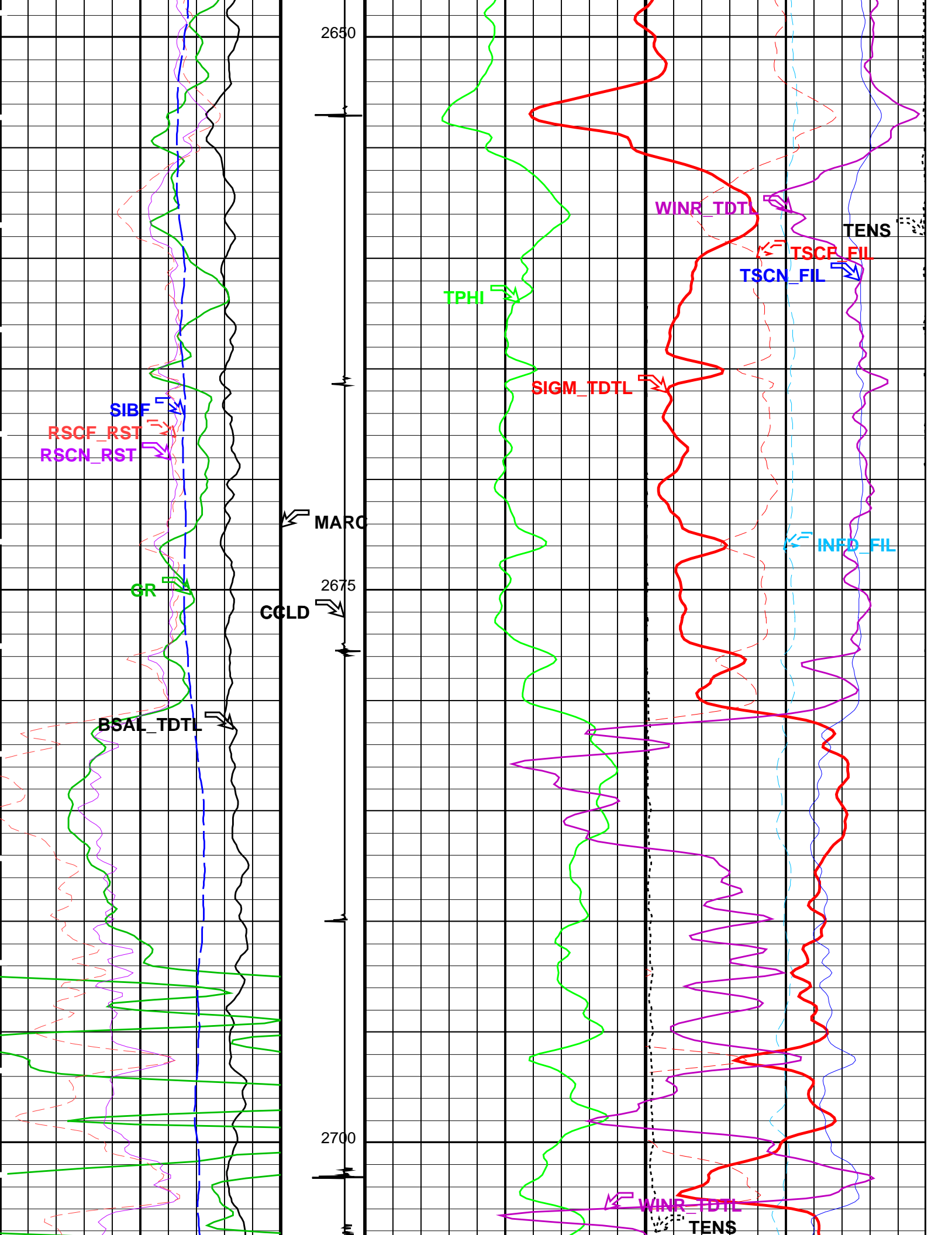
RST-C PTC-2789-NUCL PSPT-A/B 13C0-300

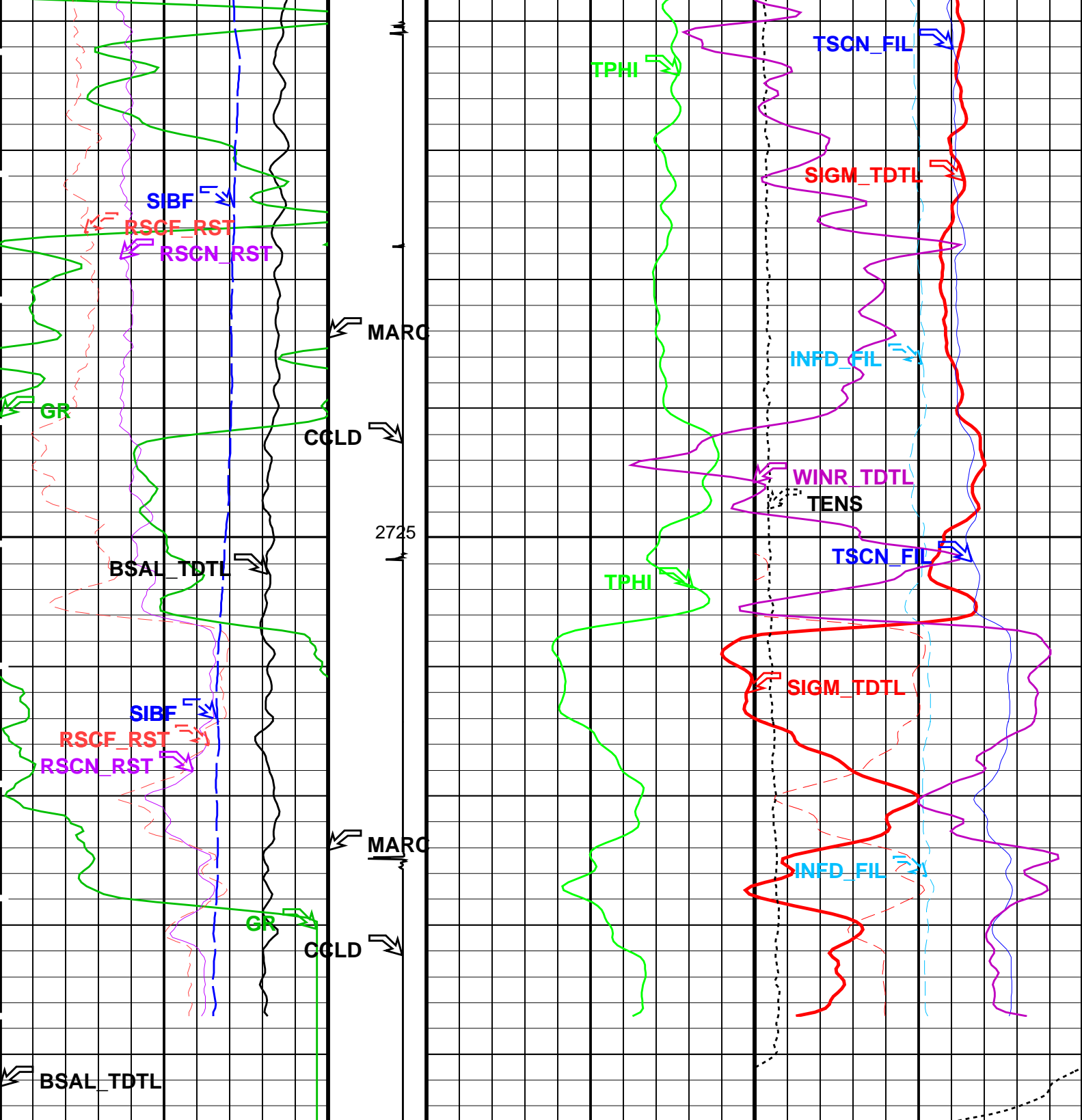
PIP SUMMARY

Time Mark Every 60 S

| | | | | | |
|--|---------|---|-------|-------|------|
| | | Tension (TENS) (LBF) | | 0 | 2000 |
| RST Borehole Salinity (TDT-like) (BSAL_TDTL) | | Tot Sel CR Far (TSCF_FIL) | | 12000 | 0 |
| 450 | (PPK) | -50 | (CPS) | | |
| RST Far Effective Capture CR (RSCF_RST) | | Tot Sel CR Near (TSCN_FIL) | | 30000 | 0 |
| 45 | (---- | 0 | (CPS) | | |
| RST Near Effective Capture CR (RSCN_RST) | | RST Weighted Inelastic Ratio (TDT-like) (WINR_TDTL) | | 0.4 | 0 |
| 45 | (---- | 0 | (---- | | |
| RST Sigma Borehole Fluid (SIBF) | | RST Porosity (TPHI) | | 0.6 | 0 |
| 100 | (CU) | 0 | (V/V) | 10000 | 0 |
| Minitron Arc Detection (MARC) | | Inelastic CR Far (INFD_FIL) | | | |
| 0 | (---- 5 | | (CPS) | | |
| Gamma Ray (GR) | | RST Sigma (TDT-like) (SIGM_TDTL) | | 60 | 0 |
| 0 | (GAPI) | 150 | (CU) | | |
| Discriminat ed CCL (CCLD) | | | | 3 | -1 |
| | | | | (V) | |







| | | | | |
|--|-----|--|---|--------------------------------------|
| Gamma Ray (GR) (GAPI) | | Discriminat ed CCL (CCLD) | RST Sigma (TDT-like) (SIGM_TDTL) | |
| 0 | 150 | 3 (V) -1 | 60 | 0 |
| RST Sigma Borehole Fluid (SIBF) (CU) | | Minitron Arc Detection (MARC) | RST Porosity (TPHI) (V/V) | Inelastic CR Far (INFD_FIL) (CPS) |
| 100 | 0 | | 0.6 0 | 10000 0 |
| RST Near Effective Capture CR (RSCN_RST) | | 0 (---- 5 | RST Weighted Inelastic Ratio (TDT-like) (WINR_TDTL) | |
| 45 | 0 | | 0.4 | 0 |
| RST Far Effective Capture CR (RSCF_RST) | | | TSCN_FIL | |

| | | | | | |
|---|---------------|-----|--|-------------------------------------|---|
| 45 | RST) (---- | 0 | 30000 | Tot Sel CR Near (TSCN_FIL) (CPS) | 0 |
| RST Borehole Salinity (TDT-like) (BSAL TDTL) | | | Tot Sel CR Far (TSCF_FIL) 12000 (CPS) | | |
| 450 | (PPK) | -50 | Tension (TENS) 0 (LBF) | | |
| | | | 2000 | | |

PIP SUMMARY

Time Mark Every 60 S

Parameters

| DLIS Name | Description | Value | |
|--|---|----------------------------|------|
| RST-C: Reservoir Saturation Pro Tool C | | | |
| | Tractor Available in Tool String | NO | |
| AIRB | RST Air Borehole | No | |
| BHS | Borehole Status | CASED | |
| BHT | Bottom Hole Temperature (used in calculations) | 220 | DEGF |
| BSALOPT | RST Borehole Salinity Option | Unknown | |
| BSFL | RST Borehole Salinity Filter Length | 51 | |
| CSID | Casing Size I.D. | 6.875 | IN |
| DFPC | RST Depth Filter Processing Constant | One | |
| DFPC_TDTL | RST Depth Filter Processing Constant (TDT-like) | Two | |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| 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 |
| PTIER | RST Tiered Presentation Selection | 0_Customer | |
| PVL_PSNT_PRST | PVL Peak Signal/Noise Threshold | 3 | |
| RGAI | Near/Far Gain Calibration Ratio | 1 | |
| SHT | Surface Hole Temperature | 80 | DEGF |
| SMBMO | RST Sigma Mode Background Minitron Off | No | |
| TIER_IC | RST IC Acquisition Mode | 0_CO_Yield_and_Spectrolith | |
| TIER_SIGM | RST Sigma Acquisition Mode | 0_RST_Sigma | |
| WOFSL_PRST | RST WFL-Off Subcycle Length | 0 | |
| WONSL_PRST | RST WFL-On Subcycle Length | 0 | |
| WSCOM_PRST | RST Station Log Comment | | |
| PSPT-A/B: Production Services Logging Platform | | | |
| BHS | Borehole Status | CASED | |
| BHT | Bottom Hole Temperature (used in calculations) | 220 | DEGF |
| CSID | Casing Size I.D. | 6.875 | IN |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | SANDSTONE | |
| PBPO | PBMS Tool position on CAN | 2 | |
| PCCG | PBMS CCL Gain | DB12 | |
| PSTP | PSTC Tool Position on CAN Bus | 1 | |
| SHT | Surface Hole Temperature | 80 | DEGF |
| System and Miscellaneous | | | |
| ALTDPCCHAN | Name of alternate depth channel | SpeedCorrectedDepth | |
| BS | Bit Size | 8.500 | IN |
| BSAL | Borehole Salinity | -50000.00 | PPM |
| CSIZ | Current Casing Size | 7.625 | IN |
| CWEI | Casing Weight | 29.70 | LB/F |
| DFD | Drilling Fluid Density | -50000.00 | G/C3 |
| DO | Depth Offset for Playback | 10.3 | M |
| MST | Mud Sample Temperature | -50000.00 | DEGC |
| PBVSADP | Use alternate depth channel for playback | NO | |
| PP | Playback Processing | NORMAL | |
| RMFS | Resistivity of Mud Filtrate Sample | -50000.0000 | OHMM |
| RW | Resistivity of Connate Water | 1.0000 | OHMM |
| TD | Total Depth | -50000 | M |
| TDD | Total Depth - Driller | 2832.00 | M |
| TDL | Total Depth - Logger | 2854.00 | M |
| TWS | Temperature of Connate Water Sample | 37.78 | DEGC |

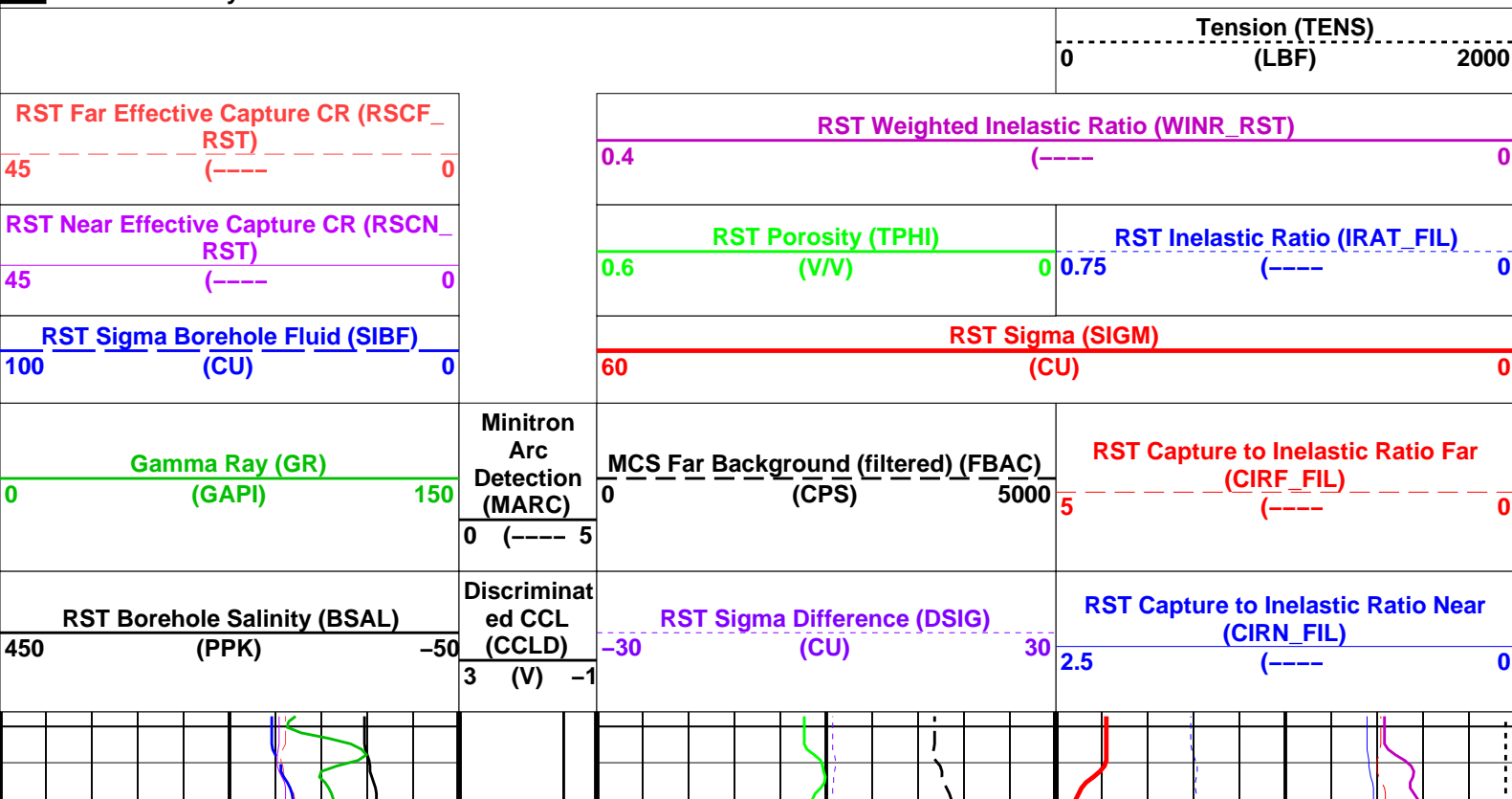
Format: RST_TDTL_ANSW Vertical Scale: 1:200 Graphics File Created: 22-Feb-2006 16:27

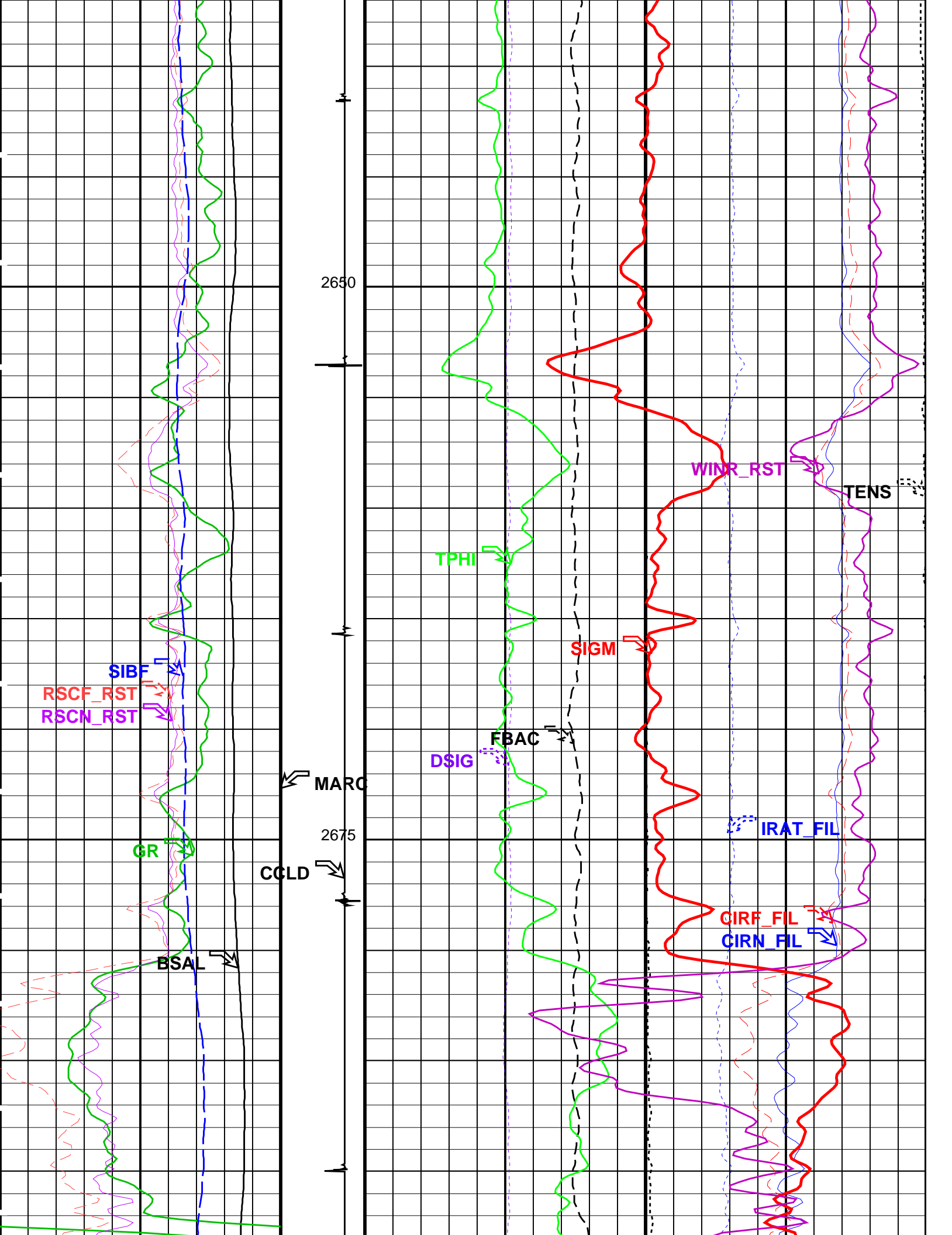


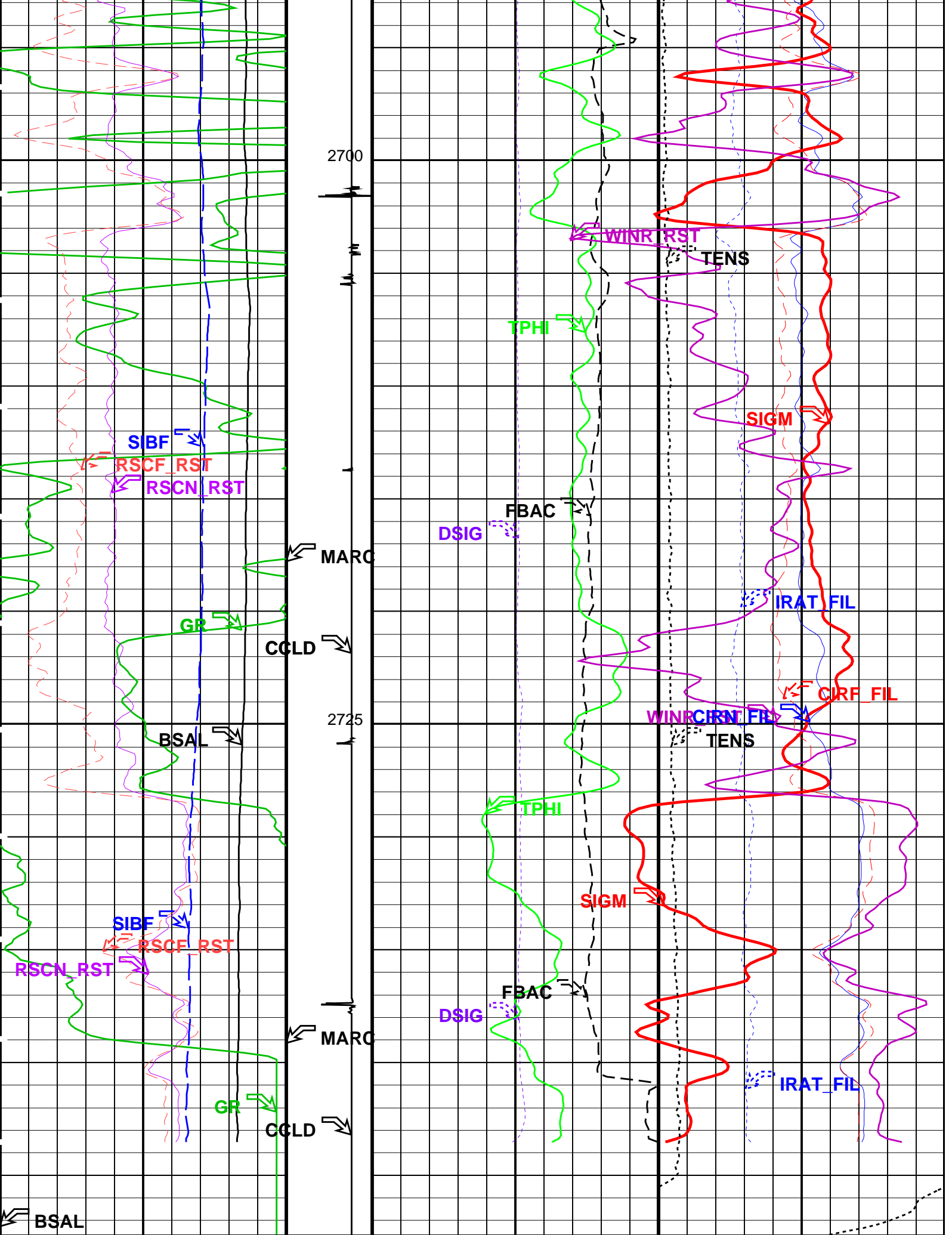
MAXIS Field Log

MCM

Time Mark Every 60 S







| | | | | | | | | | | | | | |
|--|--------|-----|----------|--------|-----|---|-------|------|-------------------------------------|------------|------|-------|------|
| RST Borehole Salinity (BSAL) | (PPK) | -50 | ed CCL | (CCLD) | -30 | RST Sigma Difference (DSIG) | (CU) | 30 | RST Capture to Inelastic Ratio Near | (CIRN_FIL) | 2.5 | (---- | 0 |
| | | | 3 | (V) | -1 | | | | | | | | |
| Gamma Ray (GR) | (GAPI) | 150 | Minitron | Arc | | MCS Far Background (filtered) (FBAC) | (CPS) | 5000 | RST Capture to Inelastic Ratio Far | (CIRF_FIL) | 5 | (---- | 0 |
| | | | 0 | (---- | 5 | | | | | | | | |
| RST Sigma Borehole Fluid (SIBF) | (CU) | 0 | | | | RST Sigma (SIGM) | (CU) | 60 | | | | | 0 |
| RST Near Effective Capture CR (RSCN_RST) | (---- | 0 | | | | RST Porosity (TPHI) | (V/V) | 0.6 | RST Inelastic Ratio (IRAT_FIL) | (---- | 0.75 | | 0 |
| | | | | | | | | | | | | | |
| RST Far Effective Capture CR (RSCF_RST) | (---- | 0 | | | | RST Weighted Inelastic Ratio (WINR_RST) | (---- | 0.4 | | | | | 0 |
| | | | | | | | | | | | | | |
| | | | | | | | | | Tension (TENS) | (LBF) | 0 | | 2000 |

PIP SUMMARY

Time Mark Every 60 S

| Parameters | | | |
|--|---|----------------------------|------|
| DLIS Name | Description | Value | |
| RST-C: Reservoir Saturation Pro Tool C | | | |
| AIRB | Tractor Available in Tool String | NO | |
| BHS | RST Air Borehole | No | |
| BHT | Borehole Status | CASED | |
| BSALOPT | Bottom Hole Temperature (used in calculations) | 220 | DEGF |
| BSFL | RST Borehole Salinity Option | Unknown | |
| CSID | RST Borehole Salinity Filter Length | 51 | |
| DFPC | Casing Size I.D. | 6.875 | IN |
| DFPC_TDTL | RST Depth Filter Processing Constant | One | |
| GCSE | RST Depth Filter Processing Constant (TDT-like) | Two | |
| GDEV | Generalized Caliper Selection | BS | |
| GGRD | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GRSE | Geothermal Gradient | 0.018227 | DC/M |
| GTSE | Generalized Mud Resistivity Selection | CHART_GEN 9 | |
| MATR | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| NORM_IRAT_RST | Rock Matrix for Neutron Porosity Corrections | SANDSTONE | |
| NORM_SIGM_RST | RST Normalized Inelastic Ratio | 0.48 | |
| PTIER | RST Normalized Sigma | 30 | CU |
| PVL_PSNT_PRST | RST Tiered Presentation Selection | 0_Customer | |
| RGAI | PVL Peak Signal/Noise Threshold | 3 | |
| SHT | Near/Far Gain Calibration Ratio | 1 | |
| SMBMO | Surface Hole Temperature | 80 | DEGF |
| TIER_IC | RST Sigma Mode Background Minitron Off | No | |
| TIER_SIGM | RST IC Acquisition Mode | 0_CO_Yield_and_Spectrolith | |
| WOFSL_PRST | RST Sigma Acquisition Mode | 0_RST_Sigma | |
| WONSL_PRST | RST WFL-Off Subcycle Length | 0 | |
| WSCOM_PRST | RST WFL-On Subcycle Length | 0 | |
| PSPT-A/B: Production Services Logging Platform | | | |
| BHS | Borehole Status | CASED | |
| BHT | Bottom Hole Temperature (used in calculations) | 220 | DEGF |
| CSID | Casing Size I.D. | 6.875 | IN |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN 9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | SANDSTONE | |
| PBPO | PBMS Tool position on CAN | 2 | |
| PCCG | PBMS CCL Gain | DB12 | |
| PSTP | PSTC Tool Position on CAN Bus | 1 | |
| SHT | Surface Hole Temperature | 80 | DEGF |
| System and Miscellaneous | | | |
| ALTDPCHAN | Name of alternate depth channel | SpeedCorrectedDepth | |
| BS | Bit Size | 8.500 | IN |
| BSAL | Borehole Salinity | -50000.00 | PPM |
| CSIZ | Current Casing Size | 7.625 | IN |
| CWEI | Casing Weight | 29.70 | LB/F |

| | | | |
|---------|--|-------------|------|
| DFD | Drilling Fluid Density | -50000.00 | G/C3 |
| DO | Depth Offset for Playback | 10.3 | M |
| MST | Mud Sample Temperature | -50000.00 | DEGC |
| PBVSADP | Use alternate depth channel for playback | NO | |
| PP | Playback Processing | NORMAL | |
| RMFS | Resistivity of Mud Filtrate Sample | -50000.0000 | OHMM |
| RW | Resistivity of Connate Water | 1.0000 | OHMM |
| TD | Total Depth | -50000 | M |
| TDD | Total Depth - Driller | 2832.00 | M |
| TDL | Total Depth - Logger | 2854.00 | M |
| TWS | Temperature of Connate Water Sample | 37.78 | DEGC |

Format: RST_SIG_ANSW

Vertical Scale: 1:200

Graphics File Created: 22-Feb-2006 16:27

| | | | |
|--|----------------|----------|----------------------------|
| <div>OP System Version: 13C0-300</div> <div>MCM</div> | | | |
| RST-C | PTC-2789-NUCL | PSPT-A/B | 13C0-300 |
| <div>Input DLIS Files</div> <div>22-Feb-2006 09:12</div> | | | |
| <div>Output DLIS Files</div> | | | |
| DEFAULT | RST_PSP_006PUP | FN:5 | PRODUCER 22-Feb-2006 16:27 |

| | | |
|----------------------------|--|--|
| <div>Schlumberger</div> | | <div>RST-TDTL</div> <div>TDTL Pass # 1</div> |
| <div>MAXIS Field Log</div> | | |

Company: Esso Australia Ltd.

Well: A-4 b

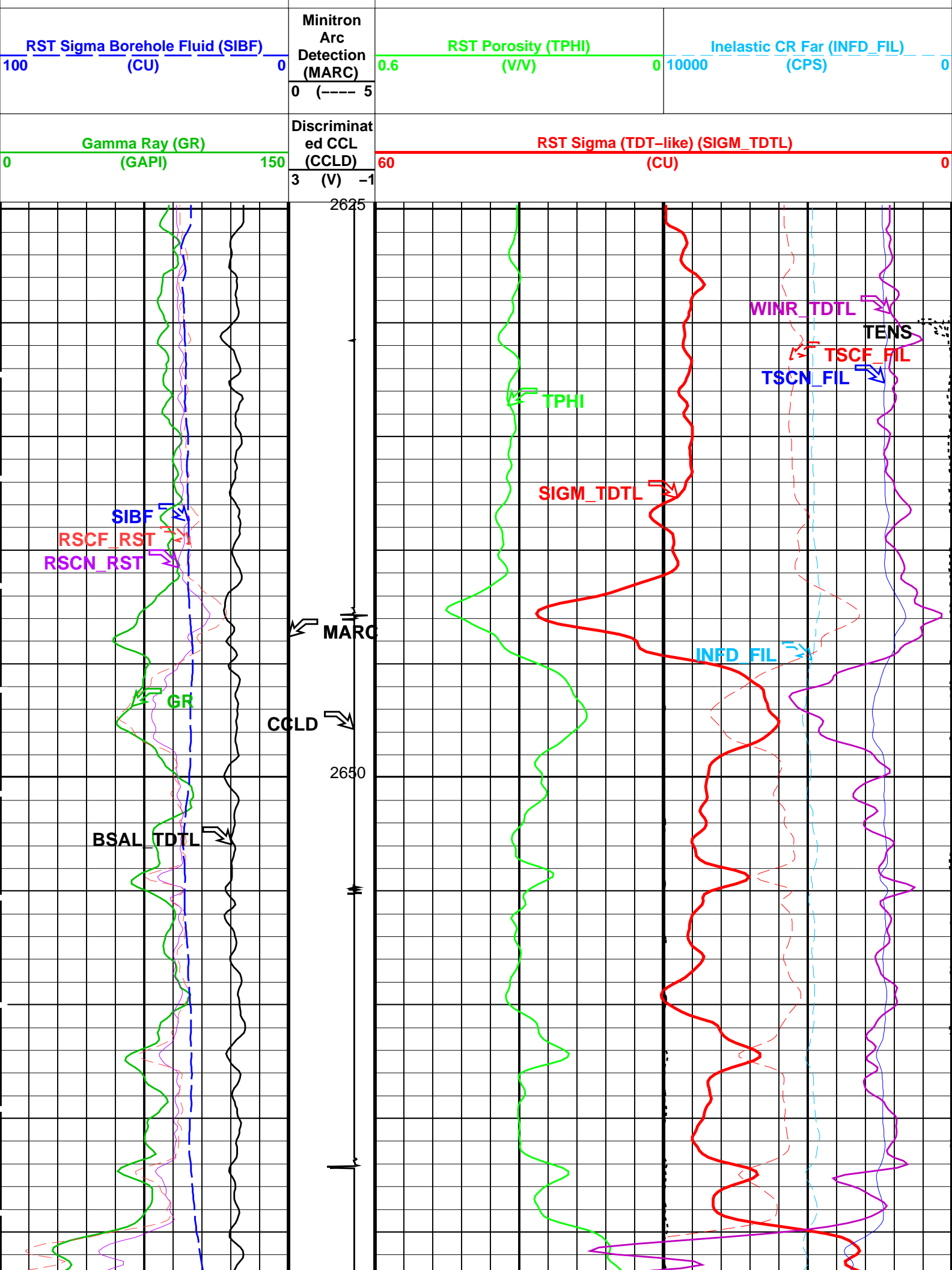
| | | | |
|--|----------------|------|--|
| <div>Input DLIS Files</div> <div>22-Feb-2006 09:12</div> | | | |
| <div>Output DLIS Files</div> | | | |
| DEFAULT | RST_PSP_005PUP | FN:4 | PRODUCER 22-Feb-2006 10:55 2737.6 M 2624.6 M |

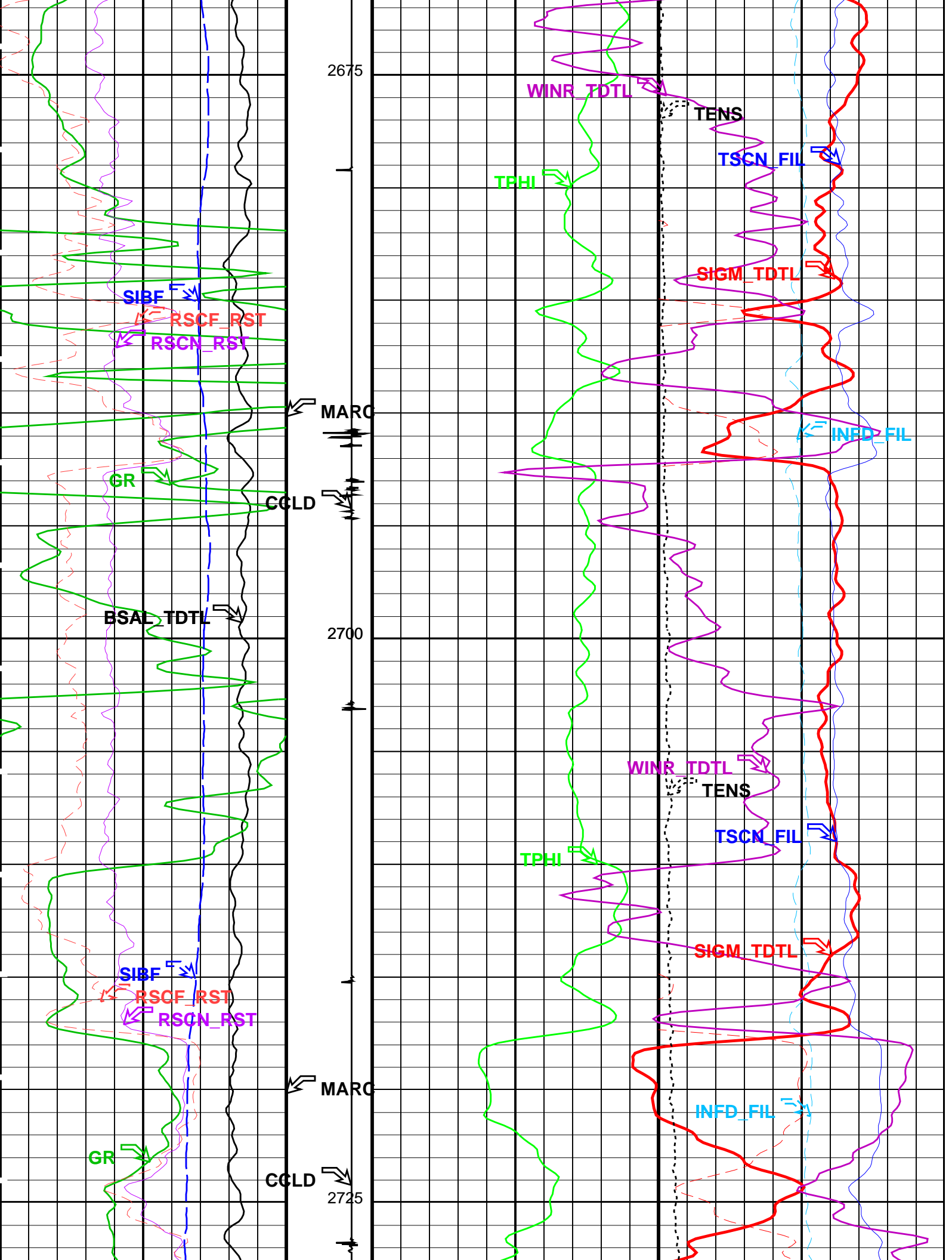
| | | | |
|---|---------------|----------|----------|
| <div>OP System Version: 13C0-300</div> <div>MCM</div> | | | |
| RST-C | PTC-2789-NUCL | PSPT-A/B | 13C0-300 |

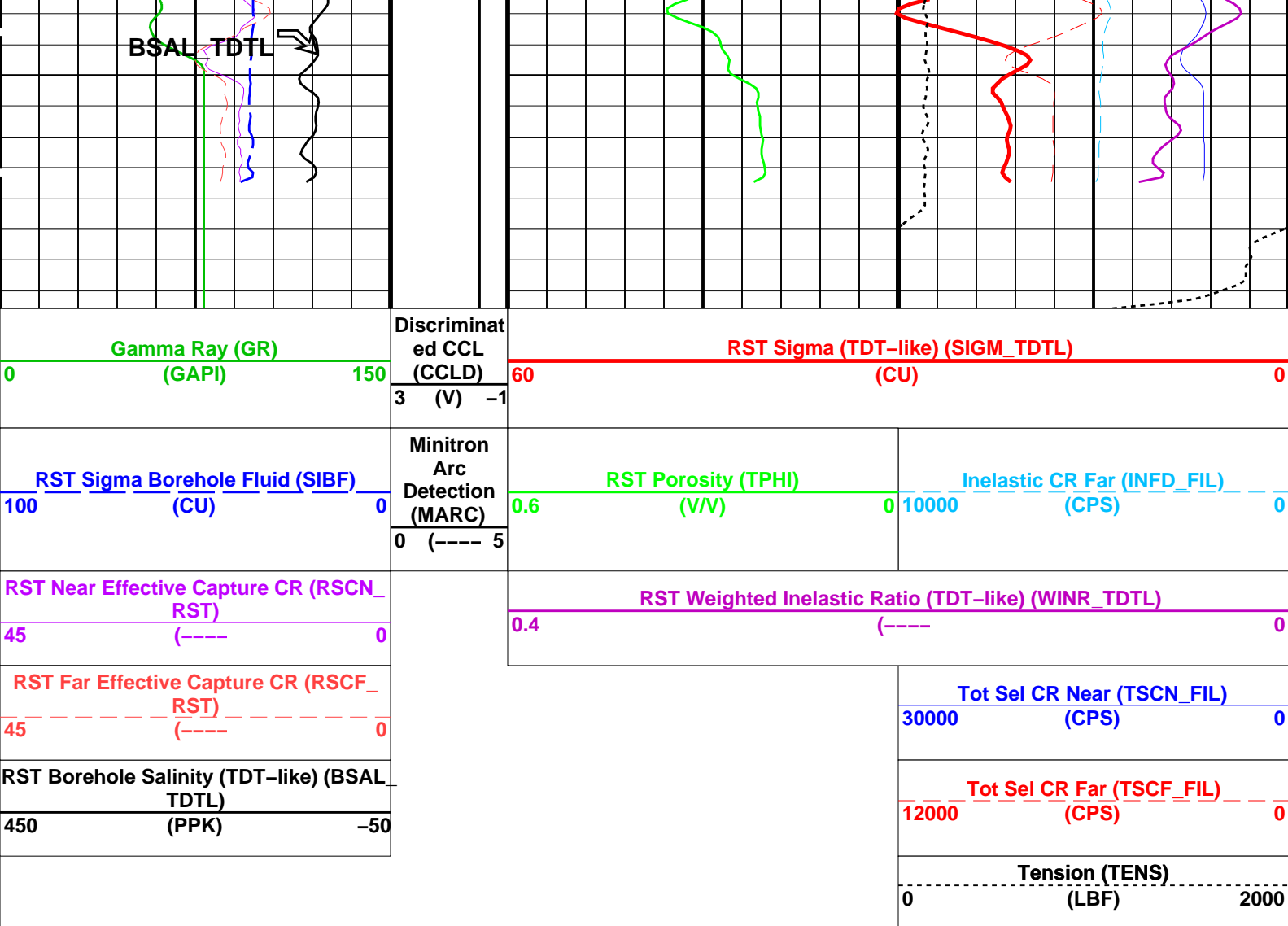
PIP SUMMARY

Time Mark Every 60 S

| | | | |
|--|--|--|--|
| | | <div>Tension (TENS)</div> <div>0 (LBF) 2000</div> | |
| <div>RST Borehole Salinity (TDT-like) (BSAL_TDTL)</div> <div>450 (PPK) -50</div> | | <div>Tot Sel CR Far (TSCF_FIL)</div> <div>12000 (CPS) 0</div> | |
| <div>RST Far Effective Capture CR (RSCF_RST)</div> <div>45 (----) 0</div> | | <div>Tot Sel CR Near (TSCN_FIL)</div> <div>30000 (CPS) 0</div> | |
| <div>RST Near Effective Capture CR (RSCN_RST)</div> <div>45 (----) 0</div> | | <div>RST Weighted Inelastic Ratio (TDT-like) (WINR_TDTL)</div> <div>0.4 (----) 0</div> | |







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 | No |
| BHT | Bottom Hole Temperature (used in calculations) | CASED |
| BSALOPT | RST Borehole Salinity Option | 220 |
| BSFL | RST Borehole Salinity Filter Length | DEGF |
| CSID | Casing Size I.D. | Unknown |
| DFPC | RST Depth Filter Processing Constant | 51 |
| DFPC_TDTL | RST Depth Filter Processing Constant (TDT-like) | 6.875 |
| GCSE | Generalized Caliper Selection | IN |
| GDEV | Average Angular Deviation of Borehole from Normal | One |
| GGRD | Geothermal Gradient | 0 |
| GRSE | Generalized Mud Resistivity Selection | DEG |
| GTSE | Generalized Temperature Selection | 0.018227 |
| MATR | Rock Matrix for Neutron Porosity Corrections | DC/M |
| NORM_IRAT_RST | RST Normalized Inelastic Ratio | CHART_GEN_9 |
| NORM_SIGM_RST | RST Normalized Sigma | LINEAR_ESTIMATE |
| PTIER | RST Tiered Presentation Selection | SANDSTONE |
| PVL_PSNT_PRST | PVL Peak Signal/Noise Threshold | 0.48 |
| RGAI | Near/Far Gain Calibration Ratio | 30 |
| SHT | Surface Hole Temperature | CU |
| SMBMO | RST Sigma Mode Background Minitron Off | 0_Customer |
| TIER_IC | RST IC Acquisition Mode | 3 |
| TIER_SIGM | RST Sigma Acquisition Mode | 1 |
| WOFSL_PRST | RST WFL-Off Subcycle Length | 80 |
| WONSL_PRST | RST WFL-On Subcycle Length | DEGF |
| WSCOM_PRST | RST Station Log Comment | No |
| PSPT-A/B: Production Services Logging Platform | | |
| BHS | Borehole Status | 0_CO_Yield_and_Spectrolith |
| | | 0_RST_Sigma |
| | | 0 |
| | | 0 |
| | | CASED |

| | | | |
|--------------------------|---|---------------------|------|
| BHT | Bottom Hole Temperature (used in calculations) | 220 | DEGF |
| CSID | Casing Size I.D. | 6.875 | IN |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN 9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | SANDSTONE | |
| PBPO | PBMS Tool position on CAN | 2 | |
| PCCG | PBMS CCL Gain | DB12 | |
| PSTP | PSTC Tool Position on CAN Bus | 1 | |
| SHT | Surface Hole Temperature | 80 | DEGF |
| System and Miscellaneous | | | |
| ALTDPC | Name of alternate depth channel | SpeedCorrectedDepth | |
| BS | Bit Size | 8.500 | IN |
| BSAL | Borehole Salinity | -50000.00 | PPM |
| CSIZ | Current Casing Size | 7.625 | IN |
| CWEI | Casing Weight | 29.70 | LB/F |
| DFD | Drilling Fluid Density | -50000.00 | G/C3 |
| DO | Depth Offset for Playback | 0.0 | M |
| MST | Mud Sample Temperature | -50000.00 | DEGC |
| PBVSADP | Use alternate depth channel for playback | NO | |
| PP | Playback Processing | RECOMPUTE | |
| RMFS | Resistivity of Mud Filtrate Sample | -50000.0000 | OHMM |
| RW | Resistivity of Connate Water | 1.0000 | OHMM |
| TD | Total Depth | -50000 | M |
| TDD | Total Depth - Driller | 2832.00 | M |
| TDL | Total Depth - Logger | 2854.00 | M |
| TWS | Temperature of Connate Water Sample | 37.78 | DEGC |

Format: RST_TDTL_ANSW
Vertical Scale: 1:200
Graphics File Created: 22-Feb-2006 10:55

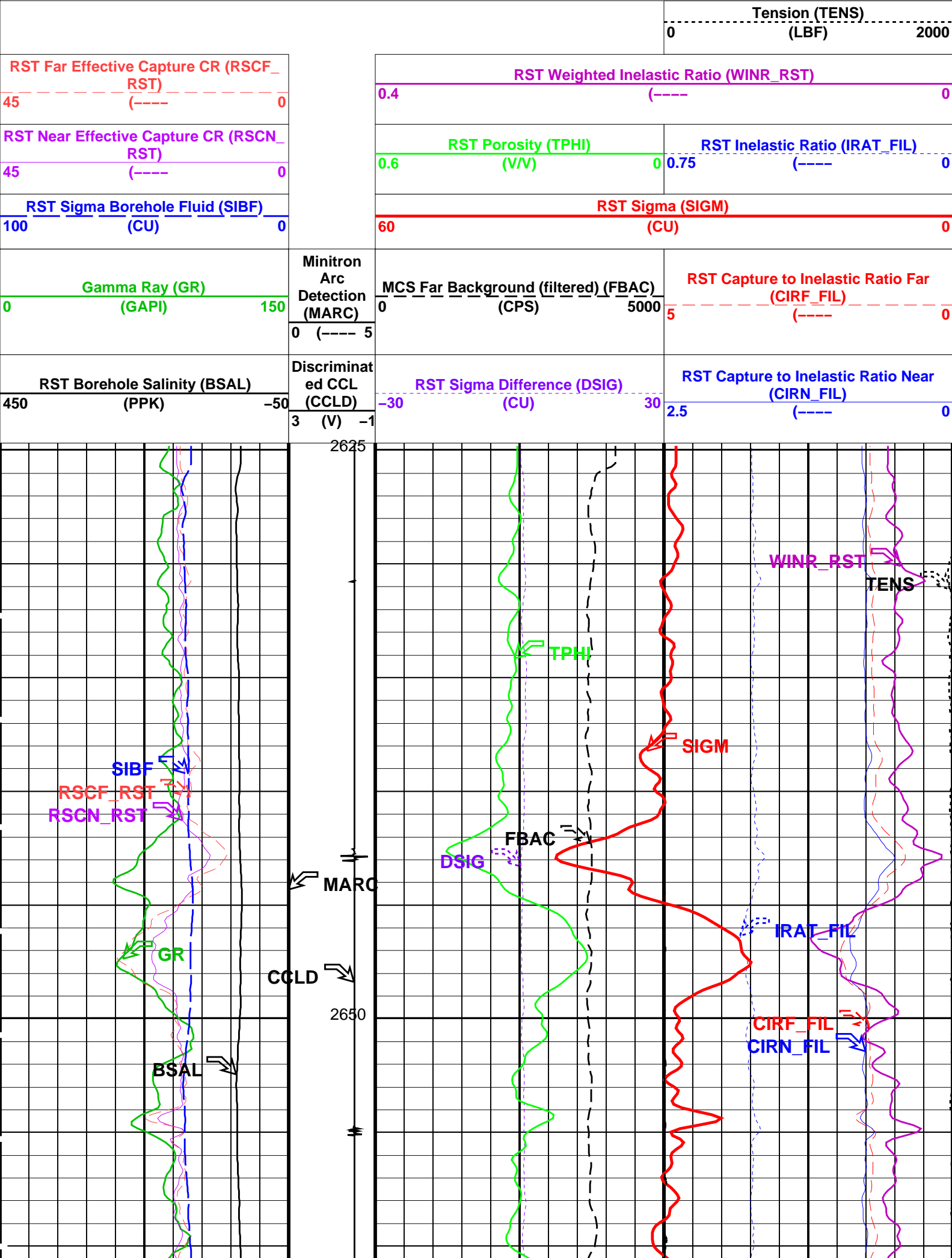
| | | | |
|--|---------------|----------|----------|
| <div> <div>OP System Version: 13C0-300</div> <div>MCM</div> </div> | | | |
| RST-C | PTC-2789-NUCL | PSPT-A/B | 13C0-300 |

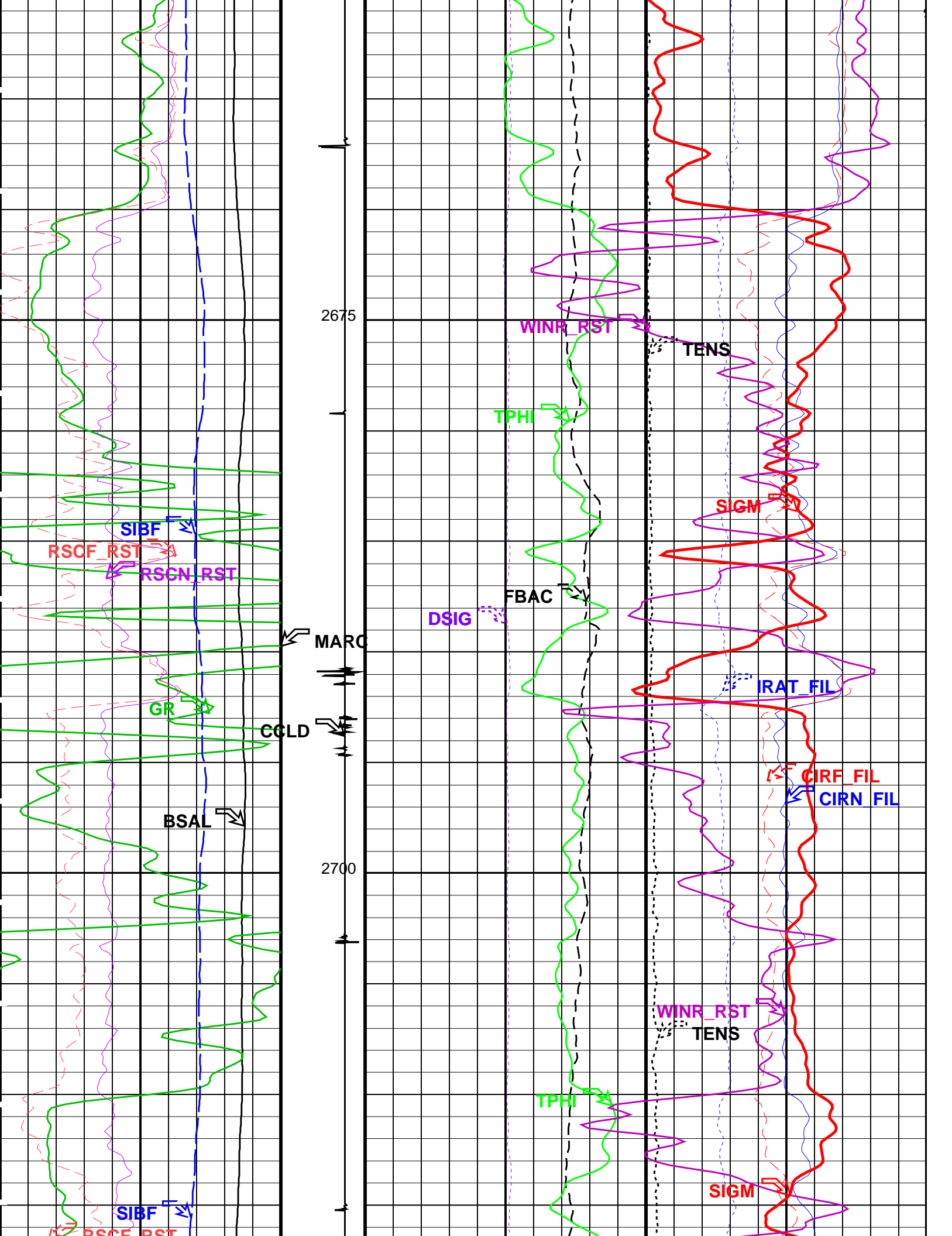
| | | | |
|--|----------------|------|----------------------------|
| <div> <div>Input DLIS Files</div> <div>22-Feb-2006 09:12</div> <div>Output DLIS Files</div> </div> | | | |
| DEFAULT | RST_PSP_005PUP | FN:4 | PRODUCER 22-Feb-2006 10:55 |

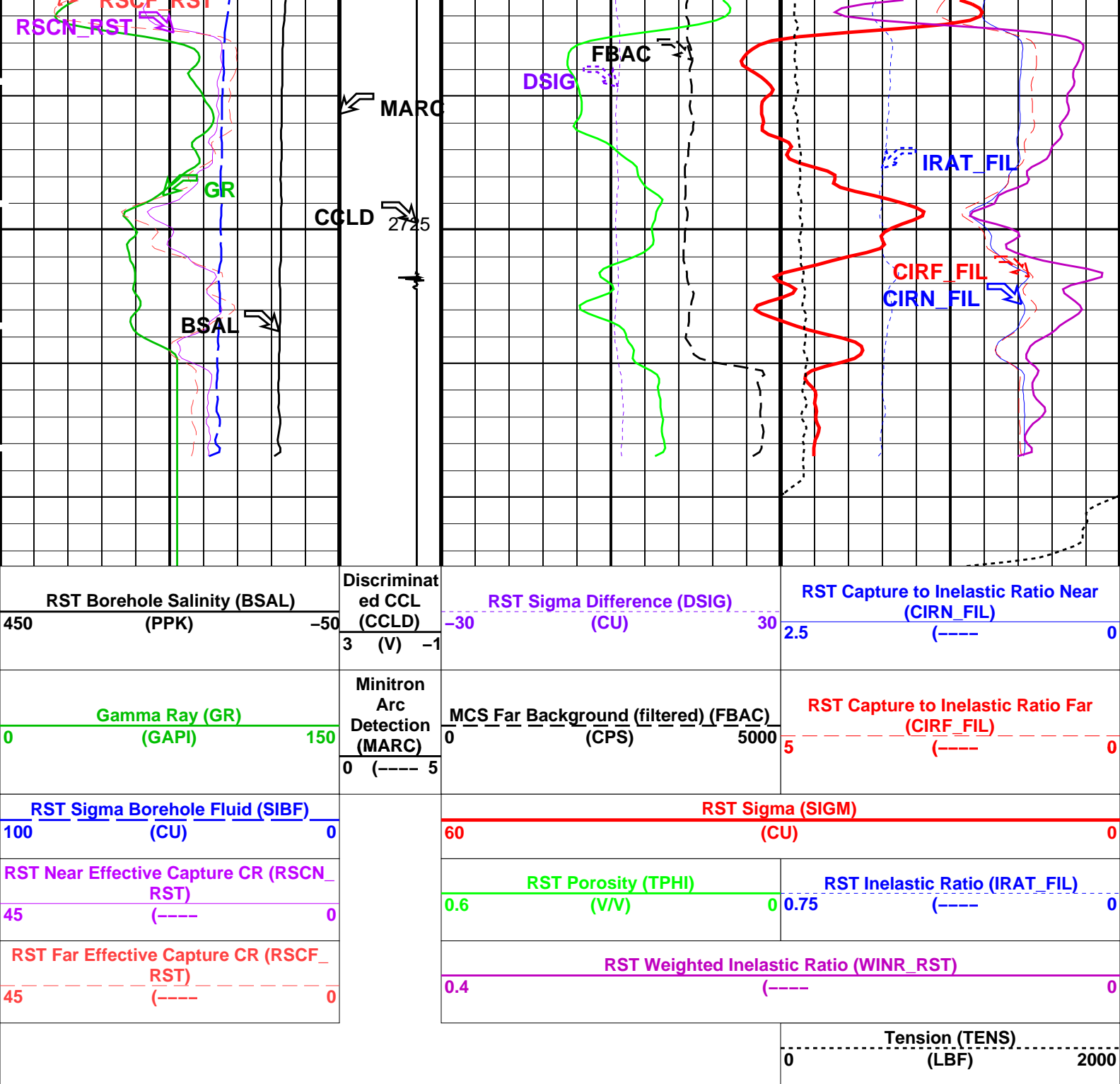
| | |
|--|--|
| <div> <div>Schlumberger</div> <div> <div>RST</div> <div>SIGMA Pass # 1</div> </div> </div> | |
| <div> <div>MAXIS Field Log</div> </div> | |

Company: Esso Australia Ltd.
Well: A-4 b

| | | | |
|--|----------------|----------|--|
| <div> <div>Input DLIS Files</div> <div>22-Feb-2006 09:12</div> <div>Output DLIS Files</div> </div> | | | |
| DEFAULT | RST_PSP_005PUP | FN:4 | PRODUCER 22-Feb-2006 10:55 2737.6 M 2624.6 M |
| <div> <div>OP System Version: 13C0-300</div> <div>MCM</div> </div> | | | |
| RST-C | PTC-2789-NUCL | PSPT-A/B | 13C0-300 |







PIP SUMMARY

Time Mark Every 60 S

Parameters

| DLIS Name | Description | Value |
|--|---|-----------------|
| RST-C: Reservoir Saturation Pro Tool C | | |
| AIRB | Tractor Available in Tool String | NO |
| BHS | RST Air Borehole | No |
| BHT | Borehole Status | CASED |
| BSALOPT | Bottom Hole Temperature (used in calculations) | 220 DEGF |
| BSFL | RST Borehole Salinity Option | Unknown |
| CSID | RST Borehole Salinity Filter Length | 51 |
| DFPC | Casing Size I.D. | 6.875 IN |
| DFPC_TDTL | RST Depth Filter Processing Constant | One |
| GCSE | RST Depth Filter Processing Constant (TDT-like) | Two |
| GDEV | Generalized Caliper Selection | BS |
| GGRD | Average Angular Deviation of Borehole from Normal | 0 |
| GRSE | Geothermal Gradient | 0.018227 |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN 9 |
| GRSE | Generalized Mud Resistivity Selection | LINEAR_ESTIMATE |

| | | | |
|--|---|----------------------------|------|
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| 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 |
| PTIER | RST Tiered Presentation Selection | 0_Customer | |
| PVL_PSNT_PRST | PVL Peak Signal/Noise Threshold | 3 | |
| RGAI | Near/Far Gain Calibration Ratio | 1 | |
| SHT | Surface Hole Temperature | 80 | DEGF |
| SMBMO | RST Sigma Mode Background Minitrone Off | No | |
| TIER_IC | RST IC Acquisition Mode | 0_CO_Yield_and_Spectrolith | |
| TIER_SIGM | RST Sigma Acquisition Mode | 0_RST_Sigma | |
| WOFSL_PRST | RST WFL-Off Subcycle Length | 0 | |
| WONSL_PRST | RST WFL-On Subcycle Length | 0 | |
| WSCOM_PRST | RST Station Log Comment | | |
| PSPT-A/B: Production Services Logging Platform | | | |
| BHS | Borehole Status | CASED | |
| BHT | Bottom Hole Temperature (used in calculations) | 220 | DEGF |
| CSID | Casing Size I.D. | 6.875 | IN |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | SANDSTONE | |
| PBPO | PBMS Tool position on CAN | 2 | |
| PCCG | PBMS CCL Gain | DB12 | |
| PSTP | PSTC Tool Position on CAN Bus | 1 | |
| SHT | Surface Hole Temperature | 80 | DEGF |
| System and Miscellaneous | | | |
| ALTDCHAN | Name of alternate depth channel | SpeedCorrectedDepth | |
| BS | Bit Size | 8.500 | IN |
| BSAL | Borehole Salinity | -50000.00 | PPM |
| CSIZ | Current Casing Size | 7.625 | IN |
| CWEI | Casing Weight | 29.70 | LB/F |
| DFD | Drilling Fluid Density | -50000.00 | G/C3 |
| DO | Depth Offset for Playback | 0.0 | M |
| MST | Mud Sample Temperature | -50000.00 | DEGC |
| PBVSADP | Use alternate depth channel for playback | NO | |
| PP | Playback Processing | RECOMPUTE | |
| RMFS | Resistivity of Mud Filtrate Sample | -50000.0000 | OHMM |
| RW | Resistivity of Connate Water | 1.0000 | OHMM |
| TD | Total Depth | -50000 | M |
| TDD | Total Depth - Driller | 2832.00 | M |
| TDL | Total Depth - Logger | 2854.00 | M |
| TWS | Temperature of Connate Water Sample | 37.78 | DEGC |

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 22-Feb-2006 10:55

OP System Version: 13C0-300

MCM

RST-C PTC-2789-NUCL PSPT-A/B 13C0-300

Input DLIS Files

22-Feb-2006 09:12

Output DLIS Files

DEFAULT RST_PSP_005PUP FN:4 PRODUCER 22-Feb-2006 10:55

Schlumberger

RST
Correlation Log

MAXIS Field Log

Company: Esso Australia Ltd. Well: A-4 b

Input DLIS Files

Output DLIS Files

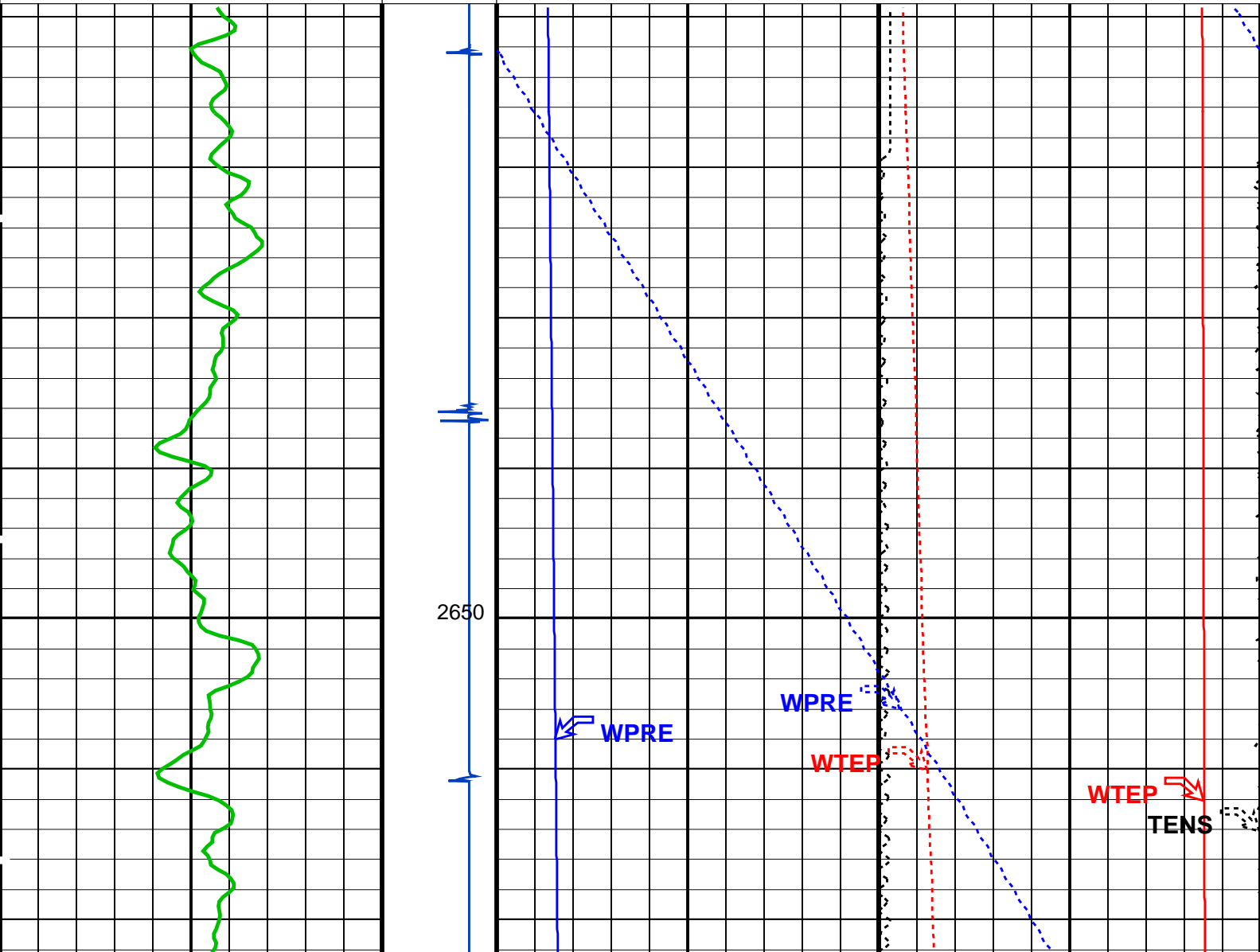
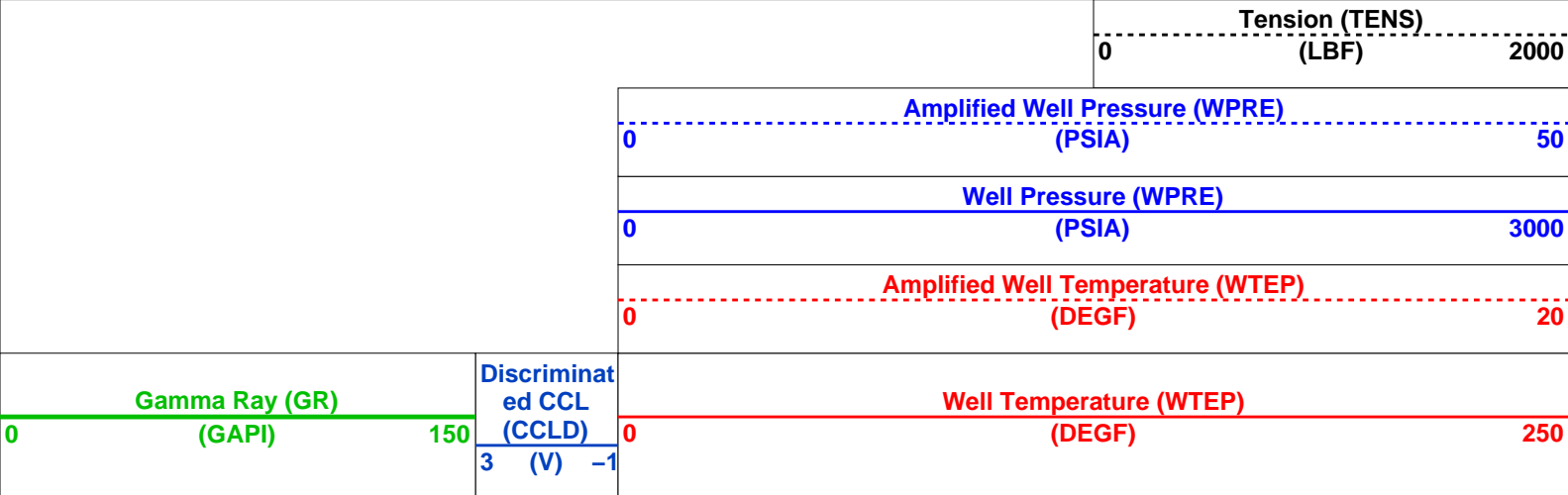
DEFAULT RST_PSP_003PUP FN:2 PRODUCER 22-Feb-2006 15:53 2731.5 M 2629.5 M

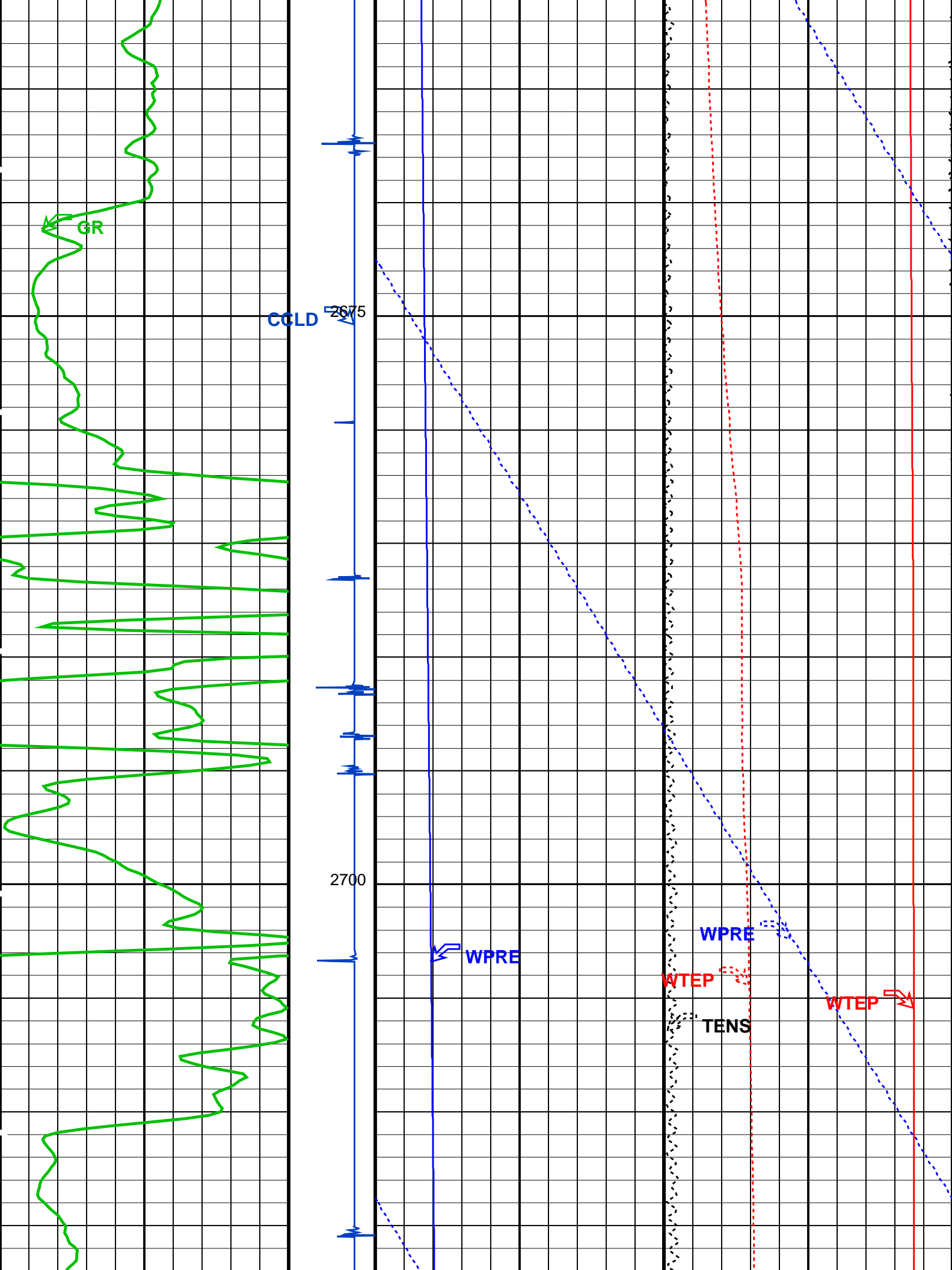
OP System Version: 13C0-300
MCM

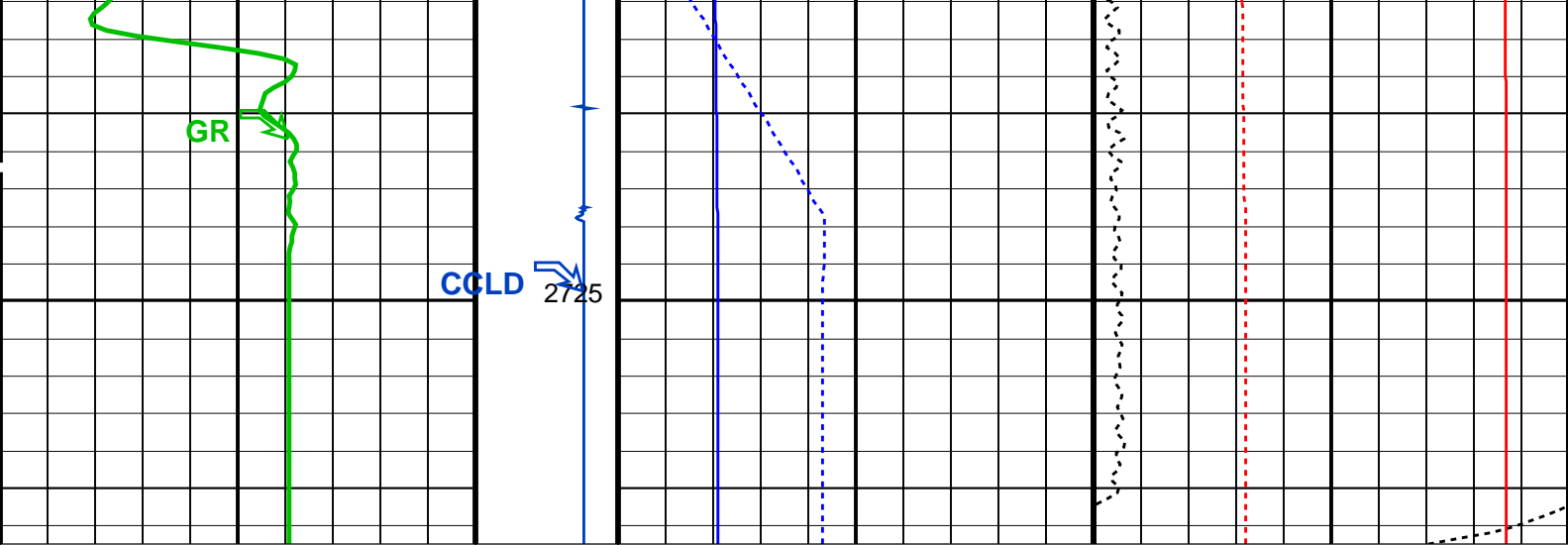
RST-C PTC-2789-NUCL PSPT-A/B 13C0-300

PIP SUMMARY

Time Mark Every 60 S







| | | | |
|-----------------------------------|--|---|------|
| Gamma Ray (GR) (GAPI) | | 0 | 150 |
| Discriminat ed CCL (CCLD) | | 3 | -1 |
| Well Temperature (WTEP) | | 0 | 250 |
| (DEGF) | | | |
| Amplified Well Temperature (WTEP) | | 0 | 20 |
| (DEGF) | | | |
| Well Pressure (WPRE) | | 0 | 3000 |
| (PSIA) | | | |
| Amplified Well Pressure (WPRE) | | 0 | 50 |
| (PSIA) | | | |
| Tension (TENS) | | 0 | 2000 |
| (LBF) | | | |

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200

Graphics File Created: 22-Feb-2006 15:53

OP System Version: 13C0-300

MCM

RST-C

PTC-2789-NUCL

PSPT-A/B

13C0-300

Parameters

| DLIS Name | Description | Value |
|-----------|--|------------------|
| DO PP | System and Miscellaneous Depth Offset for Playback Playback Processing | 10.3 M NORMAL |

Input DLIS Files

22-Feb-2006 09:12

Output DLIS Files

DEFAULT RST_PSP_003PUP FN:2 PRODUCER 22-Feb-2006 15:53

Schlumberger

RST
Calibration Summary

Client: Esso Australia Ltd.
Field: Flounder
Well: A-4 b
Run date: 12-Mar-2005

Tool: PSP
Sub Type: PBMS
Sensor: CQG

PBMS Quartz Gauge type F

Sonde Serial NB COEFFICIENTS FOR CQG PBMS-B.1835 S/N:
Sensor Serial NB 1835
Calib Date ddmmyy 110903
Matrix Size 66
Coeff CRC E327

Pres Coeff

Fb**0

Fb**1

Fb**2

| | | | |
|-------|--------------------|--------------------|--------------------|
| Fc**0 | +710621998670E+04 | +177487059936E-01 | -.229282744373E-06 |
| Fc**1 | -.107674891182E+01 | -.130703989514E-04 | -.104866616035E-09 |
| Fc**2 | +106597883422E-05 | +473287804902E-10 | +130673536902E-14 |
| Fc**3 | +259070533723E-11 | +447781122059E-16 | 0.0 |
| Fc**4 | 0.0 | 0.0 | 0.0 |
| Fc**5 | 0.0 | 0.0 | 0.0 |

Fb**3

Fb**4

Fb**5

| | | | |
|-------|--------------------|--------------------|--------------------|
| Fc**0 | -.798970484327E-10 | -.998501593992E-15 | -.541951618457E-19 |
| Fc**1 | +252556181648E-16 | +254168506173E-19 | 0.0 |
| Fc**2 | 0.0 | 0.0 | 0.0 |
| Fc**3 | 0.0 | 0.0 | 0.0 |
| Fc**4 | 0.0 | 0.0 | 0.0 |
| Fc**5 | 0.0 | 0.0 | 0.0 |

PBMS Quartz Gauge type F

Sonde Serial NB :
Sensor Serial NB 1835
Calib Date ddmmyy 110903
Matrix Size 66
Coeff CRC EFDB

Temp Coeff

Fc**0

Fc**1

Fc**2

| | | | |
|-------|--------------------|--------------------|-------------------|
| Fb**0 | +114463609805E+03 | -.357036761772E-03 | +740368475392E-08 |
| Fb**1 | -.599116576037E-02 | +168968640462E-07 | +971180102280E-13 |

| | | | |
|-------|--------------------|--------------------|--------------------|
| Fb**2 | −.313476896781E−07 | +.280855756389E−12 | +.522594387624E−17 |
| Fb**3 | −.345232285412E−12 | +.132578528655E−16 | 0.0 |
| Fb**4 | 0.0 | 0.0 | 0.0 |
| Fb**5 | 0.0 | 0.0 | 0.0 |
| | Fc**3 | Fc**4 | Fc**5 |
| Fb**0 | −.662555121972E−13 | −.128735497716E−16 | +.201686421407E−20 |
| Fb**1 | +.105450979419E−17 | +.291282503656E−22 | 0.0 |
| Fb**2 | 0.0 | 0.0 | 0.0 |
| Fb**3 | 0.0 | 0.0 | 0.0 |
| Fb**4 | 0.0 | 0.0 | 0.0 |
| Fb**5 | 0.0 | 0.0 | 0.0 |

PBMS Quartz Gauge type F

Sonde Serial NB
Sensor Serial NB
Calib Date ddmmyy
Matrix Size
Coeff CRC

:
1835
110903
16
DEBD

Clock Freq Coeff

| | | | |
|--------------|--------------------|--------------------|--------------------|
| | (Fb'−Fc')**0 | (Fb'−Fc')**1 | (Fb'−Fc')**2 |
| (Fb'−Fc')**0 | +.310767528869E+05 | +.335592525104E−02 | +.755555221694E−06 |
| | (Fb'−Fc')**3 | (Fb'−Fc')**4 | (Fb'−Fc')**5 |
| (Fb'−Fc')**0 | −.663132027543E−10 | −.304510933886E−15 | −.221699107190E−20 |

PBMS Quartz Gauge type F

Sonde Serial NB
Sensor Serial NB
Calib Date ddmmyy
Matrix Size
Coeff CRC

:
1835
110903
16
9BC5

Clock Temp Coeff

| | | | |
|--------------|--------------------|--------------------|--------------------|
| | (Fb'−Fc')**0 | (Fb'−Fc')**1 | (Fb'−Fc')**2 |
| (Fb'−Fc')**0 | +.117006070216E+03 | −.563318421010E−02 | −.321069862747E−07 |
| | (Fb'−Fc')**3 | (Fb'−Fc')**4 | (Fb'−Fc')**5 |
| (Fb'−Fc')**0 | +.266467699086E−12 | +.176013008412E−17 | −.287423561499E−21 |

Client: Esso Australia Ltd.

Field: Flounder

Well: A-4 b

Run date: 12-Mar-2005

Tool: PSP

Sub Type: PBMS

Sensor: WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS-B.1835 S/N:

1835

110903

16

17D6

WTemp Coeff

| | | | |
|-------|--------------------|--------------------|--------------------|
| | Tt**0 | Tt**1 | Tt**2 |
| Tt**0 | -.421083036710E+03 | +.205647137377E+03 | -.427997982499E+02 |
| | Tt**3 | Tt**4 | Tt**5 |
| Tt**0 | +.842001833552E+01 | -.575216642231E+00 | 0.0 |

Client: Esso Australia Ltd.

Field: Flounder

Well: A-4 b

Run date: 12-Mar-2005

Tool: PSP

Sub Type: PBMS

Sensor: GR

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.33490,TOOL PBMS-BA1835. SENSOR S/N:

33490

280302

12

ABA2

GR HV Rt

| | | |
|-------|--------------------|--------------------|
| | Rt**0 | Rt**1 |
| Rt**0 | +.150000000000e+04 | +.226000000000e+04 |

Company: **Esso Australia Ltd.**

Schlumberger

Well: **A-4 b**

Field: **Flounder**

Rig : **Crane / Prod#4**

Country: **Australia**

RST-C Static
Sigma
Survey