

Company: TXU Gas Storage

Well: Iona-1

Field: Iona

Rig: Crane

Country: Australia

RST-Sigma Survey
Static Gradient Survey
1/200 Scale

| | |
|-------------------------|----------------------------|
| Field: | Iona |
| Location: | TXU Gas Storage |
| Well: | Iona-1 |
| Company: | TXU Gas Storage |
| LOCATION | |
| TXU Gas Storage | Elev.: K.B. 131.4 m |
| Process Plant | G.L. 126.5 m |
| | D.F. 131 m |
| Permanent Datum: | AMSL |
| Log Measured From: | OKB |
| Drilling Measured From: | OKB |
| State: Victoria | Max. Well Deviation 0 deg |
| | Longitude 143 01' 57.33" E |
| | Latitude 38 34' 30.46" S |

| | |
|-------------------------------|--------------------|
| Logging Date | 19-Dec-2003 |
| Run Number | 1 |
| Depth Driller | 1455.7 m |
| Schlumberger Depth | 1358.3 m |
| Bottom Log Interval | 1354.1 m |
| Top Log Interval | 1264.2 m |
| Casing Fluid Type | Gas |
| Salinity | |
| Density | |
| Fluid Level | |
| BIT/CASING/TUBING STRING | |
| Bit Size | 8.500 in |
| From | |
| To | |
| Casing/Tubing Size | 5.500 in |
| Weight | 15.5 lbm/ft |
| Grade | |
| From | |
| To | |
| Maximum Recorded Temperatures | 150 degF |
| Logger On Bottom | 19-Dec-2003 |
| Time | 11:45 |
| Unit Number | 3170 |
| Location | QEA |
| Recorded By | J. Bell/J. Wooster |
| Witnessed By | G. Hogan |

| 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 | 0 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 | | | | | |
| Time | | | | | |
| Unit Number | | | | | |
| Location | | | | | |
| Recorded By | | | | | |
| Witnessed By | | | | | |

| DEPTH SUMMARY LISTING | |
|-----------------------|--|
|-----------------------|--|

Date Created: 19-DEC-2003 13:04:19

Depth System Equipment

| Depth Measuring Device | | Tension Device | | Logging Cable | |
|---------------------------|-------------|---------------------------|-------------|---|-------------|
| Type: | IDW-B | Type: | CMTD-B/A | Type: | 2-23(18-12) |
| Serial Number: | 1933 | Serial Number: | 2268 | Serial Number: | -999 |
| Calibration Date: | 23-May-2003 | Calibration Date: | 24-Oct-2003 | Length: | 6380.07 M |
| Calibrator Serial Number: | -999 | Calibrator Serial Number: | 1050 | <hr/> Conveyance Method: Wireline Rig Type: LAND | |
| Calibration Cable Type: | 2-23(18-12) | Calibration Gain: | 0.90 | | |
| Wheel Correction 1: | -2 | Calibration Offset: | 226.00 | | |
| Wheel Correction 2: | -2 | | | | |

| | |
|--------------------------|--|
| Depth Control Parameters | |
|--------------------------|--|

| | |
|--------------------------------------|-----------------------------|
| Log Sequence: | Subsequent Trip To the Well |
| Reference Log Name: | DLL-MSFL-GR |
| Reference Log Run Number: | 1 |
| Reference Log Date: | 17-Mar-2003 |
| Subsequent Trip Down Log Correction: | 0.00 M |

| | |
|-----------------------|--|
| Depth Control Remarks | |
|-----------------------|--|

1. Schlumberger depth control procedures followed.
- 2.
- 3.
- 4.
- 5.
- 6.

DISCLAIMER

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

| | |
|-----------------|-----------------|
| OTHER SERVICES1 | OTHER SERVICES2 |
| OS1: Nil | OS1: |
| OS2: | OS2: |
| OS3: | OS3: |
| OS4: | OS4: |
| OS5: | OS5: |

GR a

active due to the transition and violation of TD of the DOT (see

[illegible]

active due to the tagging and pickup at 1D or the RST tool.

Static gradient intervals are at the lubricator, 500, 1000,

1250, 1275(Datum), 1297, 1310 and 1340m MDKB.

All static gradient intervals were measured for 5 minutes

except for the datum which was measured for 15 minutes.

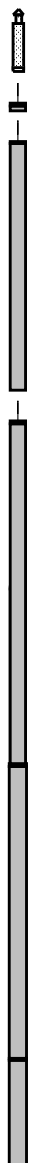
Crew: Jason Rayner and Kris Parker.

Performed by Schlumberger.

| RUN 1 | | | RUN 2 | | |
|------------------|-------|------|------------------|-------|------|
| SERVICE ORDER #: | | | SERVICE ORDER #: | | |
| PROGRAM VERSION: | | | 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 | | |
|---------------------|--|-------|
| MH-22 |  | 11.95 |
| MH-22 | | |
| AH-38 | | 11.47 |
| EQF-43 | | 11.42 |
| EQF-43 | | |
| PSPT-B | TelStatus CTEM | 9.59 |
| PSC-A 822 | | |
| PSPT-B 822 | | |
| PSTC 822 | | |
| PBMS-B 822 | | |
| CQG_F_Mano 822 | GR | 8.46 |
| RTD Thermometer 822 | | |
| GR 33110 | | |
| CCL 822 | | |
| PBMS 822 | | |
| Well_Temp | | 7.53 |
| CQG Manom | | 7.42 |
| CCL | | 7.30 |
| PBMS PSTC | | 7.07 |
| RST-C | | 7.07 |
| RSCH-A 27 | | |
| RSC-CA 27 | | |
| RSS-A 23 | | |
| RSXH-CA 28 | | |
| RSX-C 28 | | |
| RSC-A Far | | 4.29 |
| RSC-A PNG | | |
| RSC-A No2 | | |

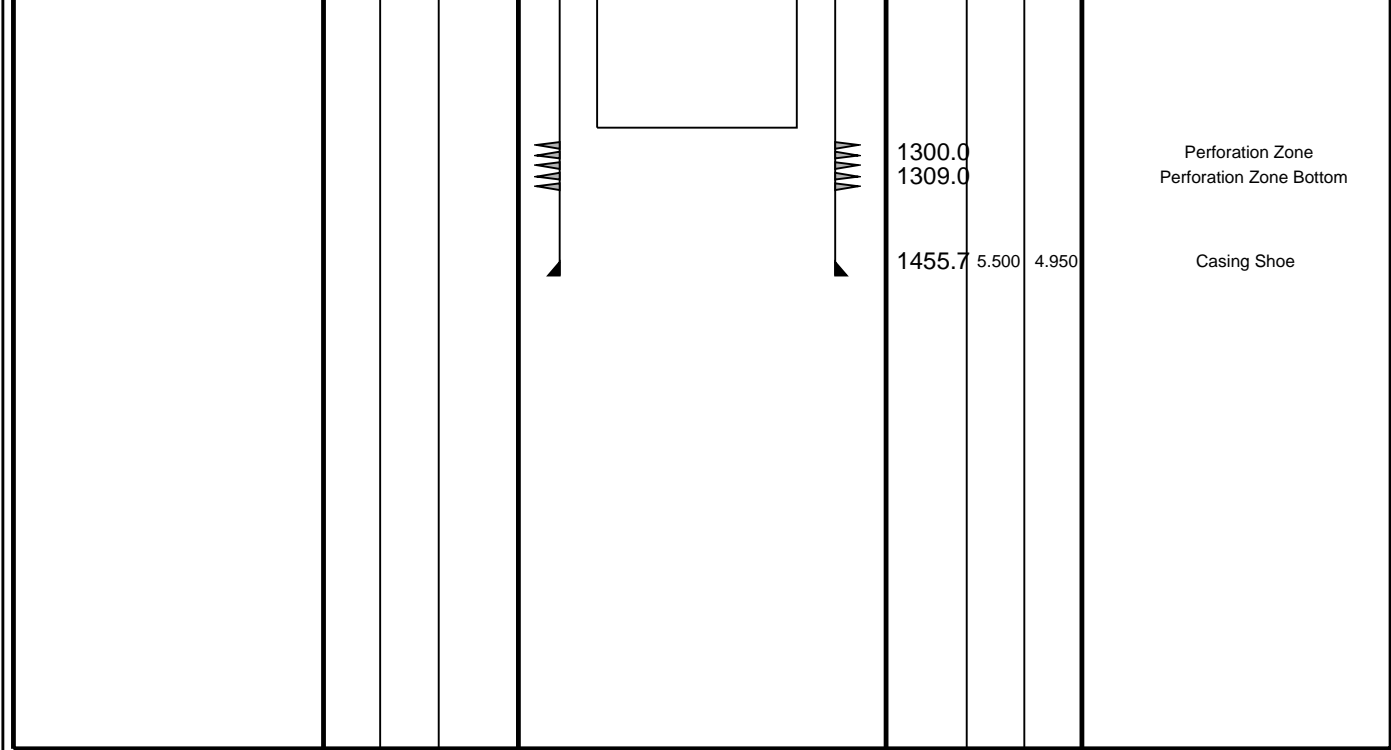
4.14

Tension HV 0.00
TOOL ZERO

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

Rig Name: Crane
Reference Datum: Mean Sea Level
Elevation: 0.0 m

| Production String | (in) | | (m) | Well Schematic | (m) | (in) | | Casing String |
|-------------------|-------|----|-----|---|------------|----------------|----------------|-------------------------------|
| | OD | ID | MD | | MD | OD | ID | |
| Tubing | 4.000 | | 4.9 |  | 5.1 5.1 | 5.500 4.000 | 4.950 5.500 | Casing String Liner Hanger |



Schlumberger

Station Log Lubricator

MAXIS Field Log

Input DLIS Files

| | | | | | | |
|---------|----------------|-------|----------|-------------------|-------|-------|
| DEFAULT | RST_PSP_020LTP | FN:29 | PRODUCER | 19-Dec-2003 14:09 | 1.7 M | 0.9 M |
|---------|----------------|-------|----------|-------------------|-------|-------|

Output DLIS Files

| | | | | | | |
|---------|----------------|-------|----------|-------------------|-------|-------|
| DEFAULT | RST_PSP_024PTP | FN:37 | PRODUCER | 19-Dec-2003 14:28 | 1.7 M | 0.8 M |
|---------|----------------|-------|----------|-------------------|-------|-------|

OP System Version: 10C0-306

MCM

| | | | |
|-------|----------|--------|----------|
| RST-C | OP10-KP1 | PSPT-B | 10C0-306 |
|-------|----------|--------|----------|

| Amplified Well Pressure (WPRE_SL) | | Well Temperature (WTEP_SL) | |
|-----------------------------------|--------|----------------------------|--------|
| 0 | (PSIA) | 20 | (DEGC) |
| Well Pressure (WPRE_SL) | | Well Temperature (WTEP_SL) | |
| 0 | (PSIA) | 0 | (DEGC) |

[illegible]

| | | | | | | |
|-------------------|----------------|-------|----------|-------------------|---------|-------|
| Input DLIS Files | | | | | | |
| DEFAULT | RST_PSP_019LTP | FN:27 | PRODUCER | 19-Dec-2003 13:46 | 500.0 M | 0.8 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_025PTP | FN:39 | PRODUCER | 19-Dec-2003 14:35 | 500.0 M | 0.8 M |

OP System Version: 10C0-306


MCM

RST-C
OP10-KP1
PSPT-B
10C0-306

[illegible]

| Parameters | |
|------------|--|
|------------|--|

| DLIS Name | | Description | | | Value | |
|-------------------------------|---|----------------------------|----------|-------------------|--|-------|
| PP | System and Miscellaneous Playback Processing | | | NORMAL | | |
| Format: Empty3TrackStationLog | | Vertical Scale: 1" per 60S | | | Graphics File Created: 19-Dec-2003 14:35 | |
| OP System Version: 10C0-306 | | | | | | |
| MCM | | | | | | |
| RST-C | OP10-KP1 | PSPT-B | | 10C0-306 | | |
| Input DLIS Files | | | | | | |
| DEFAULT | RST_PSP_019LTP | FN:27 | PRODUCER | 19-Dec-2003 13:46 | 500.0 M | 0.8 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_025PTP | FN:39 | PRODUCER | 19-Dec-2003 14:35 | | |



Station Log

1000m MDKB

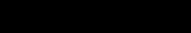
MAXIS Field Log

| | | | | | | |
|-----------------------------|----------------|-----------------------------------|----------|-------------------|----------------------------|-------|
| Input DLIS Files | | | | | | |
| DEFAULT | RST_PSP_018LTP | FN:25 | PRODUCER | 19-Dec-2003 13:28 | 999.9 M | 0.9 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_026PTP | FN:41 | PRODUCER | 19-Dec-2003 14:36 | 999.9 M | 0.9 M |
| OP System Version: 10C0-306 | | | | | | |
| MCM | | | | | | |
| RST-C | OP10-KP1 | PSPT-B | | 10C0-306 | | |
| | | Amplified Well Pressure (WPRE_SL) | | | Well Temperature (WTEP_SL) | |
| | | 0 (PSIA) 500 | | | 20 (DEGC) 60 | |
| | | Well Pressure (WPRE_SL) | | | Well Temperature (WTEP_SL) | |
| | | 0 (PSIA) 2000 | | | 0 (DEGC) 100 | |
| | | 1662.64 | | | 44.99 | |
| | | 1662.68 | | | 44.99 | |
| | | 1662.71 | | | 45.01 | |
| | | 1662.76 | | | 45.02 | |
| | | 1662.80 | | | 45.02 | |
| | | 1662.85 | | | 45.03 | |

[illegible]

| Parameters | |
|--------------------------|--------|
| DLIS Name | Value |
| System and Miscellaneous | |
| PP Playback Processing | NORMAL |

| | | | |
|---|-----------------|---------------|-----------------|
| <p align="center">OP System Version: 10C0-306</p> <p align="center">MCM</p> | | | |
| RST-C | OP10-KP1 | PSPT-B | 10C0-306 |



Station Log
1250m MDKB

MAXIS Field Log

| | | | | | | |
|-------------------|----------------|-------|----------|-------------------|----------|-------|
| Input DLIS Files | | | | | | |
| DEFAULT | RST_PSP_016LTP | FN:22 | PRODUCER | 19-Dec-2003 13:16 | 1250.0 M | 0.9 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_027PTP | FN:43 | PRODUCER | 19-Dec-2003 14:36 | 1250.0 M | 0.9 M |

MCM

[illegible]

MCM

| | | | | | | |
|---------|----------------|-------|----------|-------------------|----------|-------|
| DEFAULT | RST PSP_016LTP | FN:22 | PRODUCER | 19-Dec-2003 13:16 | 1250.0 M | 0.9 M |
|---------|----------------|-------|----------|-------------------|----------|-------|

19-Dec-2003 14:36

MAXIS Field Log

2.4 M

2.4 M

10C0-306

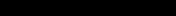
[illegible]

| Parameters | | |
|------------|---|--------|
| DLIS Name | Description | Value |
| PP | System and Miscellaneous Playback Processing | NORMAL |

OP System Version: 10C0-306

MCM

RST-C
OP10-KP1
PSPT-B
10C0-306



Station Log

1297m MDKB

MAXIS Field Log

| | | | | |
|--|----------|--------|----------|--|
| <div> <div>OP System Version: 10C0-306</div> <div>MCM</div> </div> | | | | |
| RST-C | OP10-KP1 | PSPT-B | 10C0-306 | |

[illegible]

OP System Version: 10C0-306
MCM

| | | | |
|-------|----------|--------|----------|
| RST-C | OP10-KP1 | PSPT-B | 10C0-306 |
|-------|----------|--------|----------|

[illegible]

Parameters

| DLIS Name | Description | Value |
|-------------------------------|--|--|
| PP | System and Miscellaneous Playback Processing | NORMAL |
| Format: Empty3TrackStationLog | Vertical Scale: 1" per 60S | Graphics File Created: 19-Dec-2003 14:38 |

OP System Version: 10C0-306
MCM

RST-C OP10-KP1 PSPT-B 10C0-306

Input DLIS Files

| Output DLIS Files | | | | |
|-------------------|----------------|-------|----------|-------------------|
| DEFAULT | RST_PSP_030PTP | FN:49 | PRODUCER | 19-Dec-2003 14:38 |

19-Dec-2003 14:38



| | | | | | | |
|-------------------|----------------|-------|----------|-------------------|----------|-------|
| Input DLIS Files | | | | | | |
| DEFAULT | RST_PSP_012LTP | FN:14 | PRODUCER | 19-Dec-2003 12:37 | 1340.1 M | 0.8 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_031PTP | FN:51 | PRODUCER | 19-Dec-2003 14:39 | 1340.1 M | 0.8 M |

0.8 M

0.8 M

| | | | |
|-------|----------|--------|----------|
| RST-C | OP10-KP1 | PSPT-B | 10C0-306 |
|-------|----------|--------|----------|

10C0-306

| | | | | | | | | | | Amplified Well Pressure (WPRE_SL) | | | | | | | | | | Well Temperature (WTEP_SL) | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | 0 (PSIA) 500 | | | | | | | | | | 20 (DEGC) 60 | | | | | | | | | |
| | | | | | | | | | | Well Pressure (WPRE_SL) | | | | | | | | | | Well Temperature (WTEP_SL) | | | | | | | | | |
| | | | | | | | | | | 0 (PSIA) 2000 | | | | | | | | | | 0 (DEGC) 100 | | | | | | | | | |
| | | | | | | | | | | 1724.23 | | | | | | | | | | 54.50 | | | | | | | | | |
| | | | | | | | | | | 1724.20 | | | | | | | | | | 54.50 | | | | | | | | | |
| | | | | | | | | | | 1724.17 | | | | | | | | | | 54.48 | | | | | | | | | |
| | | | | | | | | | | 1724.14 | | | | | | | | | | 54.43 | | | | | | | | | |
| | | | | | | | | | | 1724.11 | | | | | | | | | | 54.50 | | | | | | | | | |
| | | | | | | | | | | 1724.09 | | | | | | | | | | 54.53 | | | | | | | | | |
| | | | | | | | | | | 1724.06 | | | | | | | | | | 54.53 | | | | | | | | | |
| | | | | | | | | | | 1724.02 | | | | | | | | | | 54.50 | | | | | | | | | |
| | | | | | | | | | | 1723.99 | | | | | | | | | | 54.55 | | | | | | | | | |
| | | | | | | | | | | 1724.00 | | | | | | | | | | 54.70 | | | | | | | | | |

[illegible]

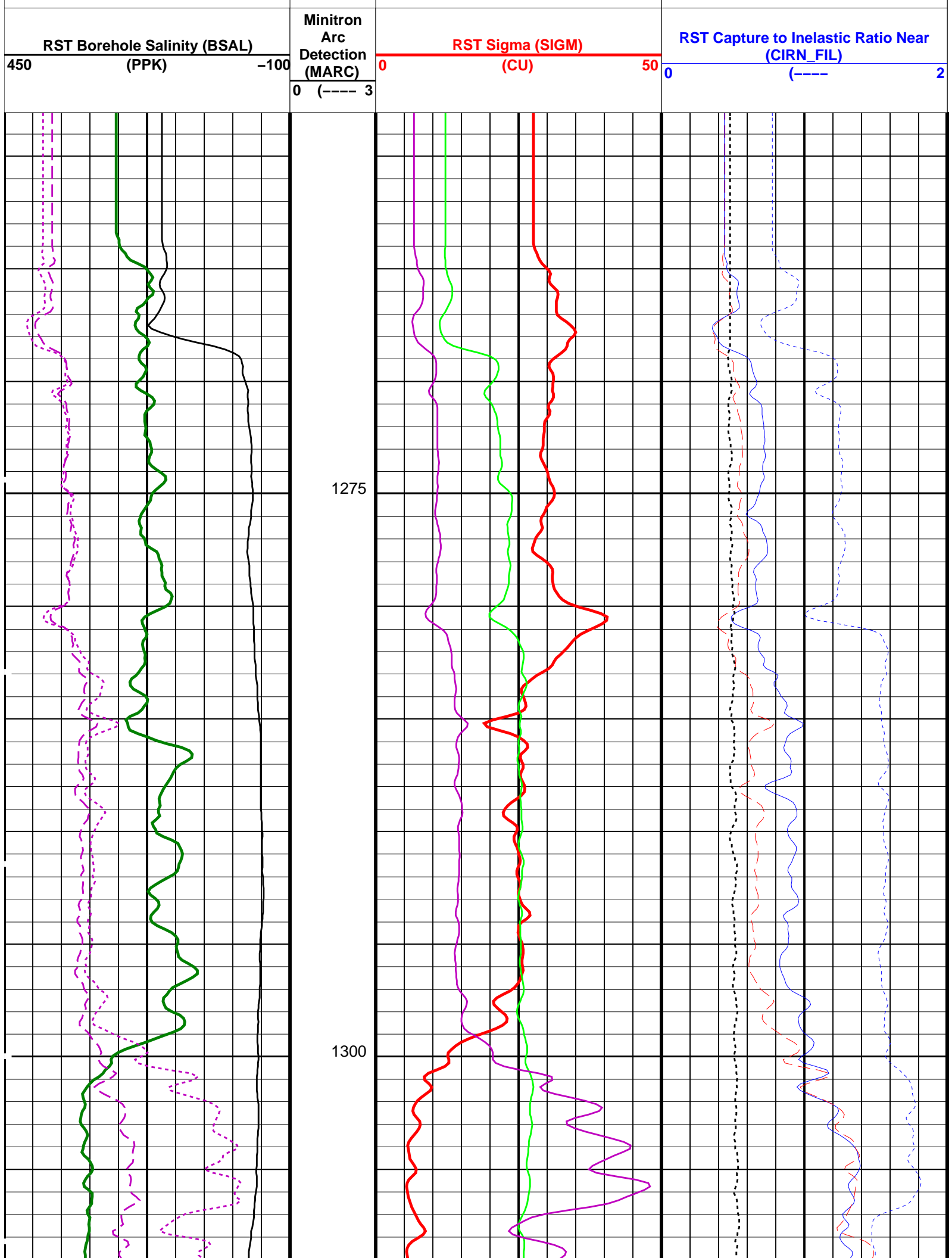
Format: Empty3TrackStationLog Vertical Scale: 1" per 60S Graphics File Created: 19-Dec-2003 14:39

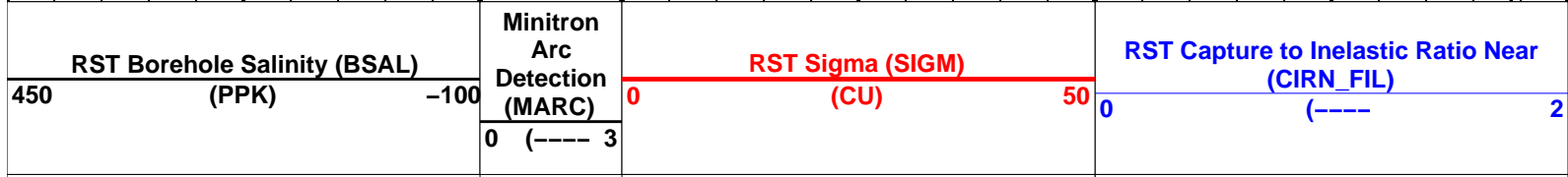
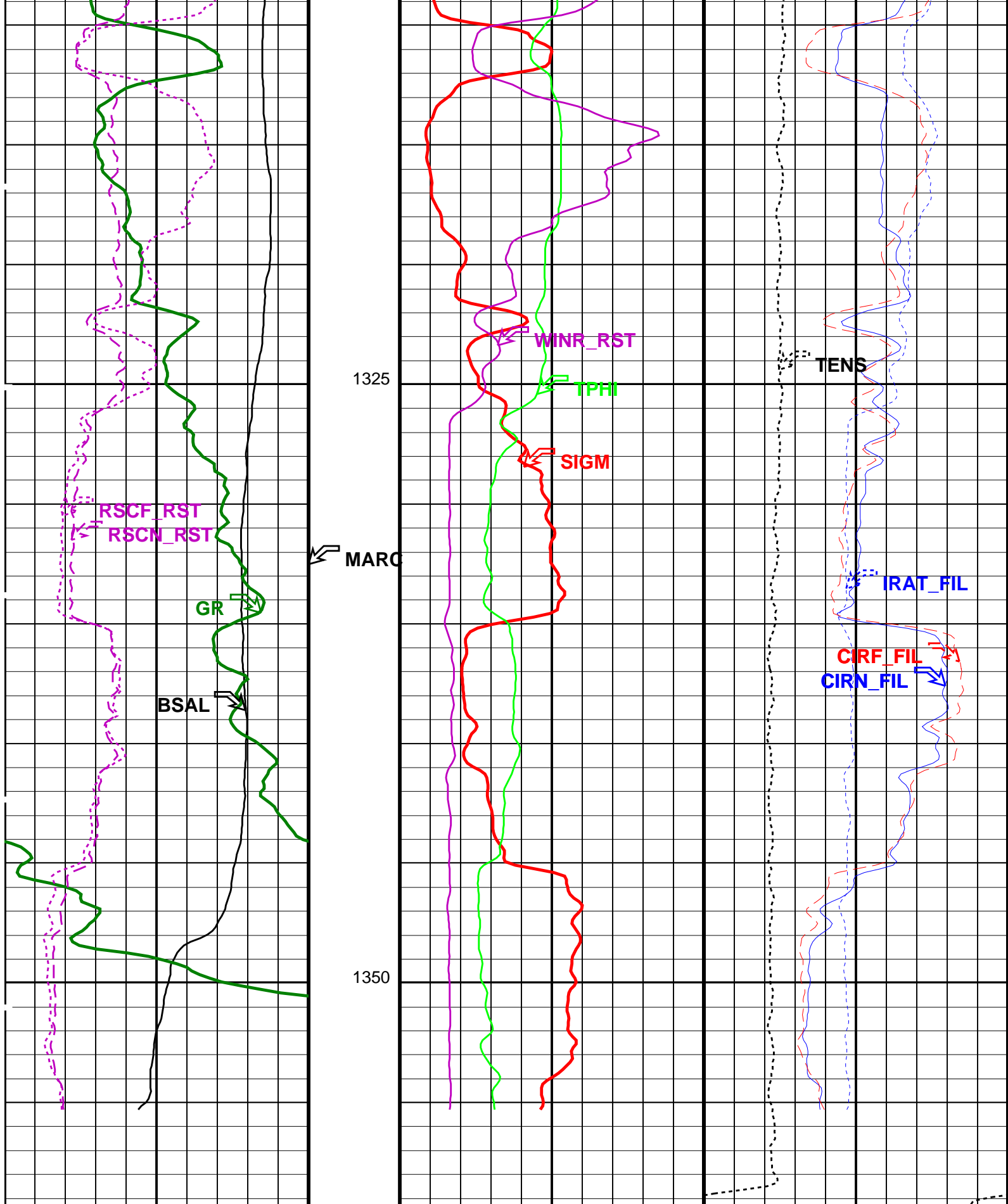
| Input DLIS Files | | | | | | |
|-------------------|----------------|-------|----------|-------------------|----------|-------|
| DEFAULT | RST_PSP_012LTP | FN:14 | PRODUCER | 19-Dec-2003 12:37 | 1340.1 M | 0.8 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_031PTP | FN:51 | PRODUCER | 19-Dec-2003 14:39 | | |

| Input DLIS Files | | | | | | |
|-------------------|----------------|-------|----------|-------------------|----------|----------|
| DEFAULT | RST_PSP_011LUP | FN:12 | PRODUCER | 19-Dec-2003 12:16 | 1359.3 M | 1263.1 M |
| Output DLIS Files | | | | | | |
| DEFAULT | RST_PSP_036PUP | FN:61 | PRODUCER | 19-Dec-2003 15:01 | | |

PIP SUMMARY

| | | |
|---|--|---|
| <div> <div>RST Far Effective Capture CR (RSCF_</div> <div>RST)</div> <div>050</div> </div> | | <div> <div>Tension (TENS)</div> <div>(LBF)</div> <div>0500</div> </div> |
| <div> <div>RST Near Effective Capture CR (RSCN_</div> <div>RST)</div> <div>050</div> </div> | <div> <div>RST Weighted Inelastic Ratio (WINR_</div> <div>RST)</div> <div>-0.52.5</div> </div> | <div> <div>RST Inelastic Ratio (IRAT_FIL)</div> <div>(----</div> <div>01</div> </div> |
| <div> <div>Gamma Ray (GR)</div> <div>(GAPI)</div> <div>0150</div> </div> | <div> <div>RST Porosity (TPHI)</div> <div>(V/V)</div> <div>1-1</div> </div> | <div> <div>RST Capture to Inelastic Ratio Far</div> <div>(CIRF_FIL)</div> <div>(----</div> <div>04</div> </div> |





Output DLIS Files

OP System Version: 10C0-306

MCM

RST-C

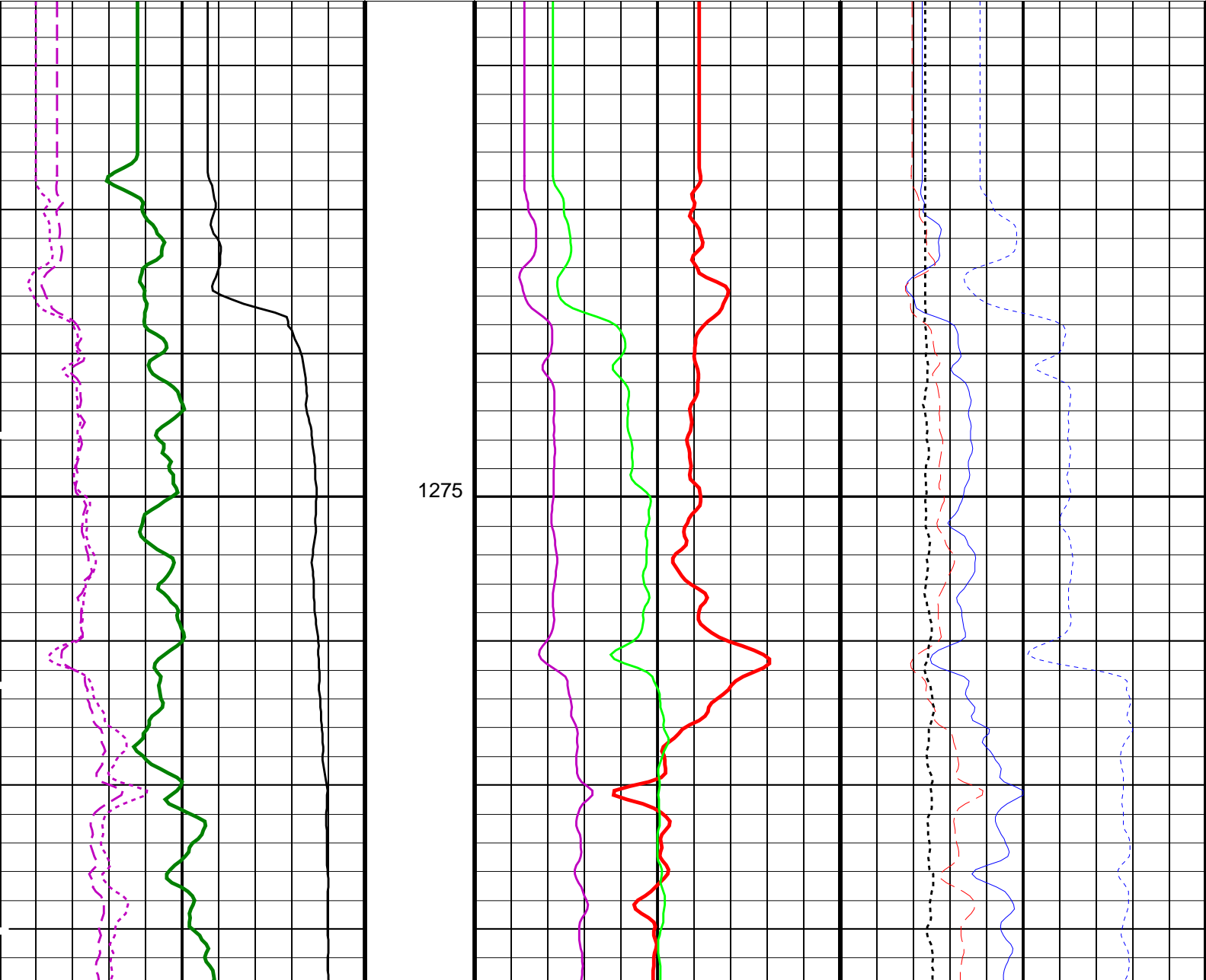
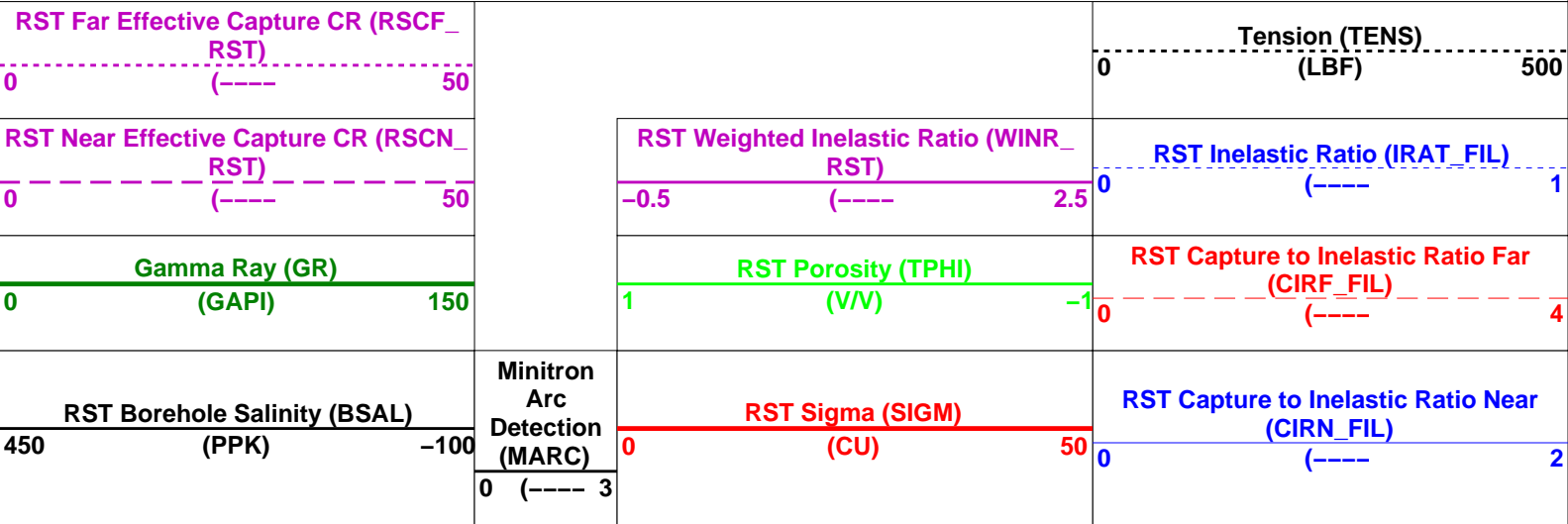
OP10-KP1

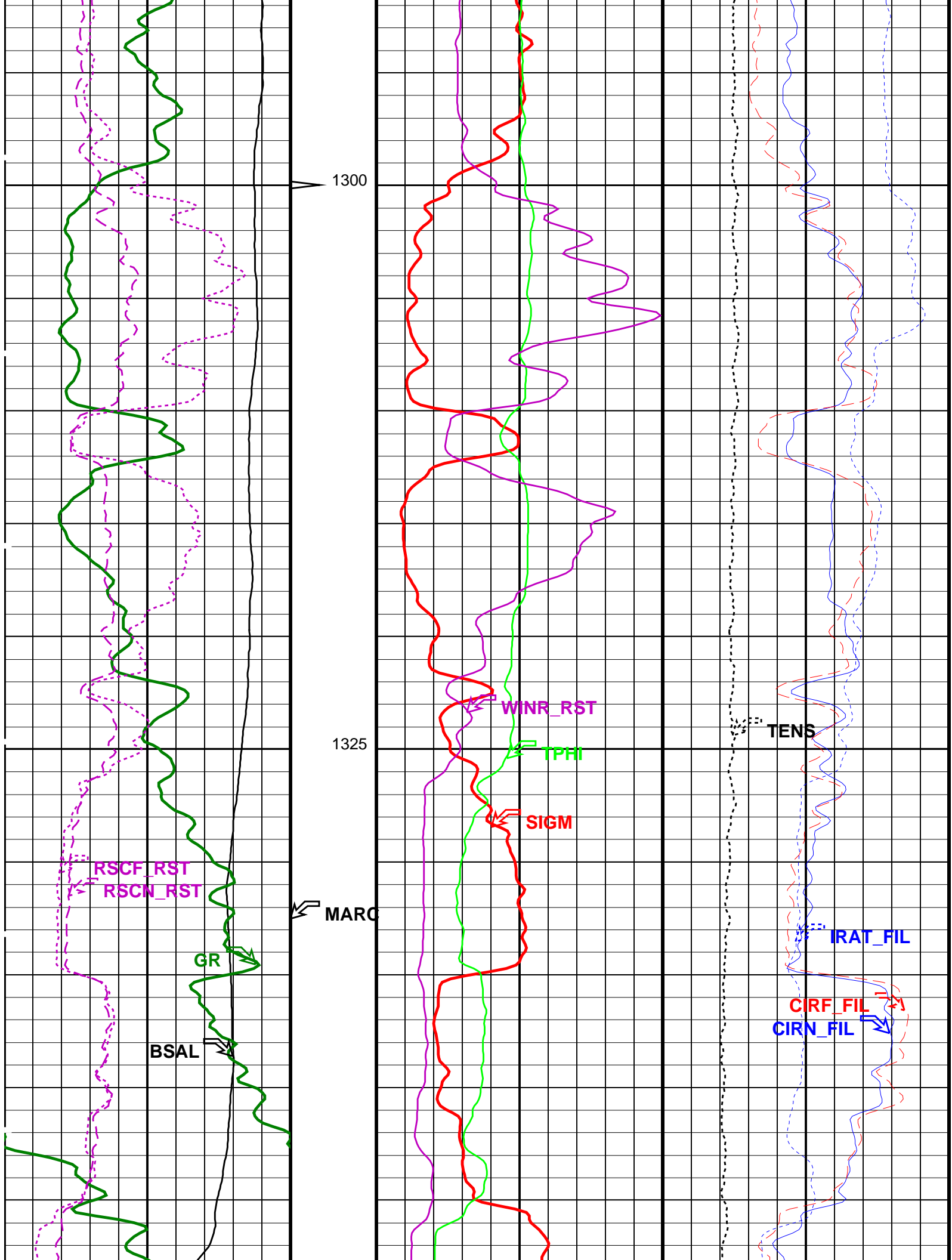
PSPT-B

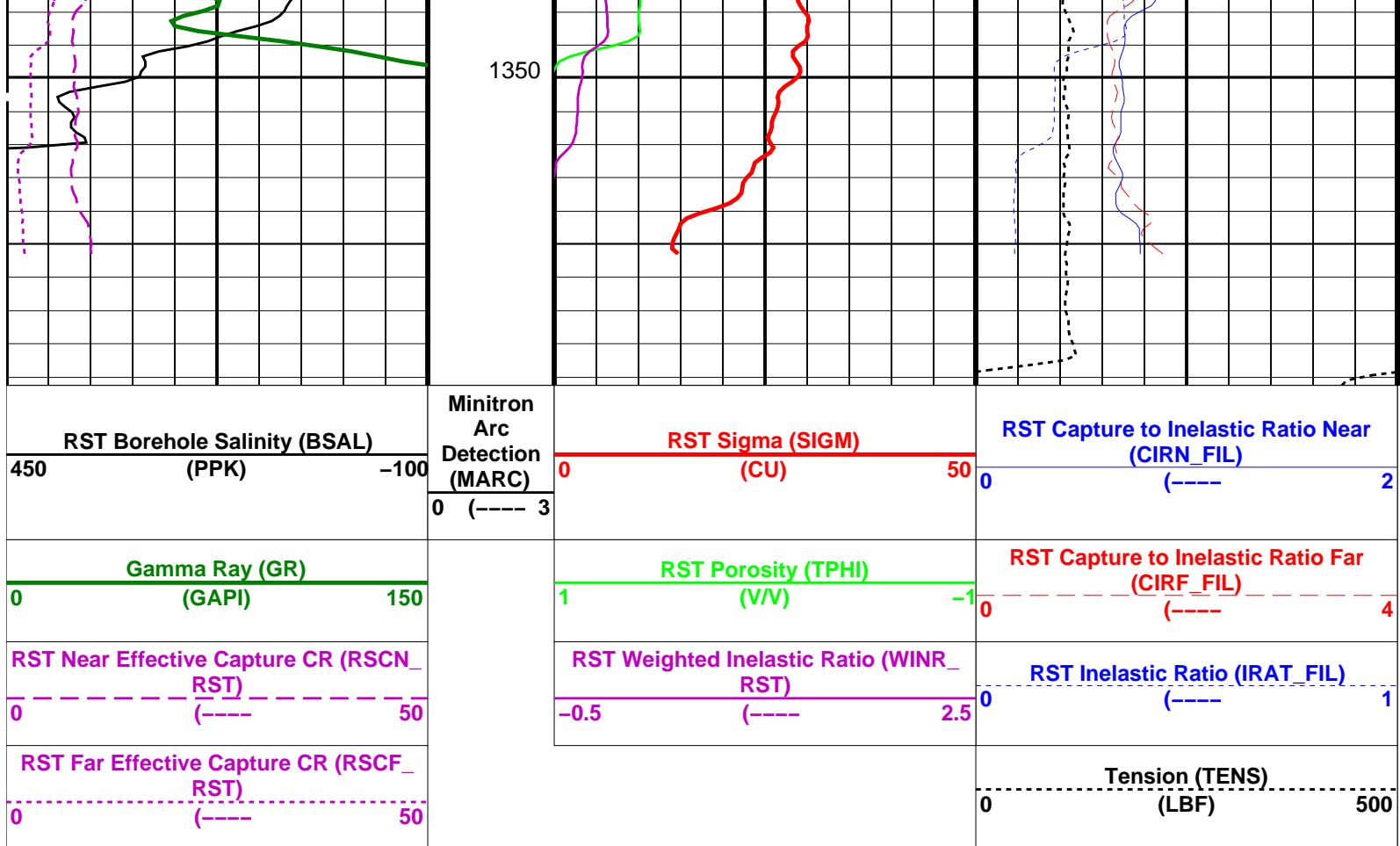
10C0-306

PIP SUMMARY

Time Mark Every 60 S







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 | |
| CSID | Casing Size I.D. | 4.95 | IN |
| DFPC | Depth Filter Processing Constant | One | |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| NORM_IRAT_RST | RST Normalized Inelastic Ratio | 0.48 | |
| NORM_SIGM_RST | RST Normalized Sigma | 30 | CU |
| RGAI | Near/Far Gain Calibration Ratio | 1 | |
| PSPT-B: PSP BASIC TOOL | | | |
| BHS | Borehole Status | CASED | |
| CSID | Casing Size I.D. | 4.95 | IN |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| System and Miscellaneous | | | |
| BS | Bit Size | 8.500 | IN |
| BSAL | Borehole Salinity | -50000.00 | PPM |
| CSIZ | Current Casing Size | 5.500 | IN |
| CWEI | Casing Weight | 15.50 | LB/F |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | NORMAL | |

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 19-Dec-2003 15:02

OP System Version: 10C0-306

MCM

RST-C OP10-KP1 PSPT-B 10C0-306

| Input DLIS Files | | | | | |
|-------------------|----------------|-------|----------|-------------------|-------------------|
| DEFAULT | RST_PSP_010LUP | FN:10 | PRODUCER | 19-Dec-2003 12:01 | 1359.3 M 1262.8 M |
| Output DLIS Files | | | | | |
| DEFAULT | RST_PSP_037RUP | FN:63 | PRODUCER | 19-Dec-2003 15:02 | |

Input DLIS Files

DEFAULT RST_PSP_009LUP FN:8 PRODUCER 19-Dec-2003 11:44 1359.3 M 1263.9 M

Output DLIS Files

DEFAULT RST_PSP_038PUP FN:65 PRODUCER 19-Dec-2003 15:04

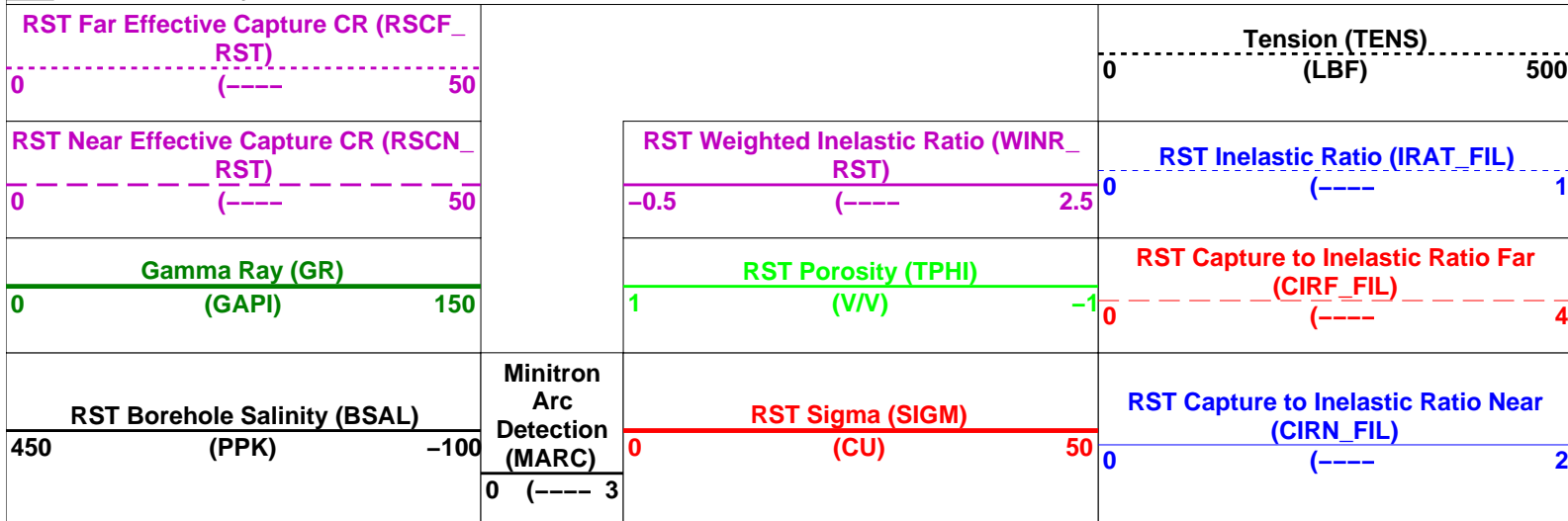
OP System Version: 10C0-306

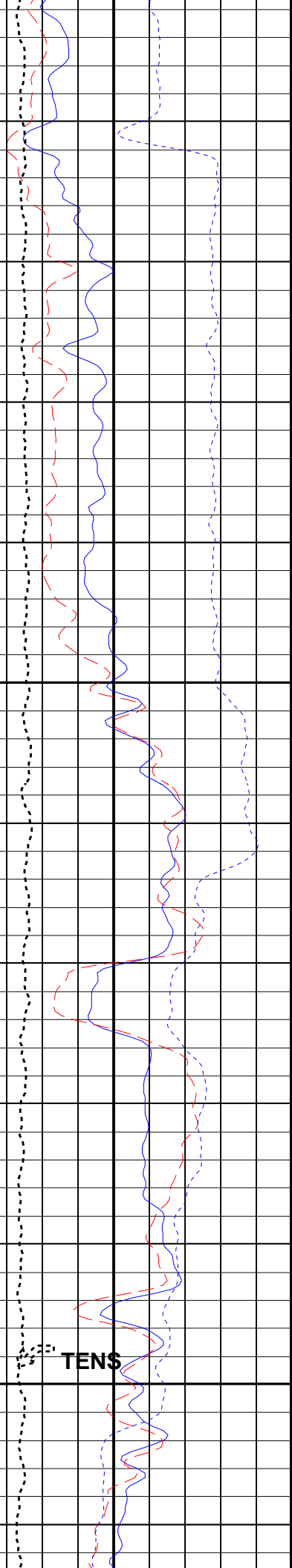
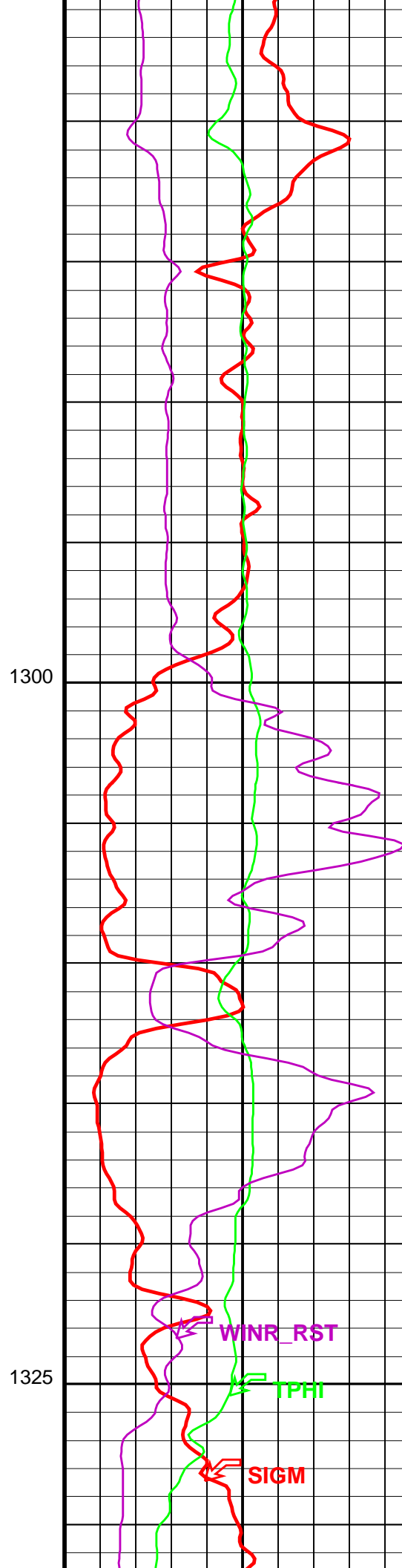
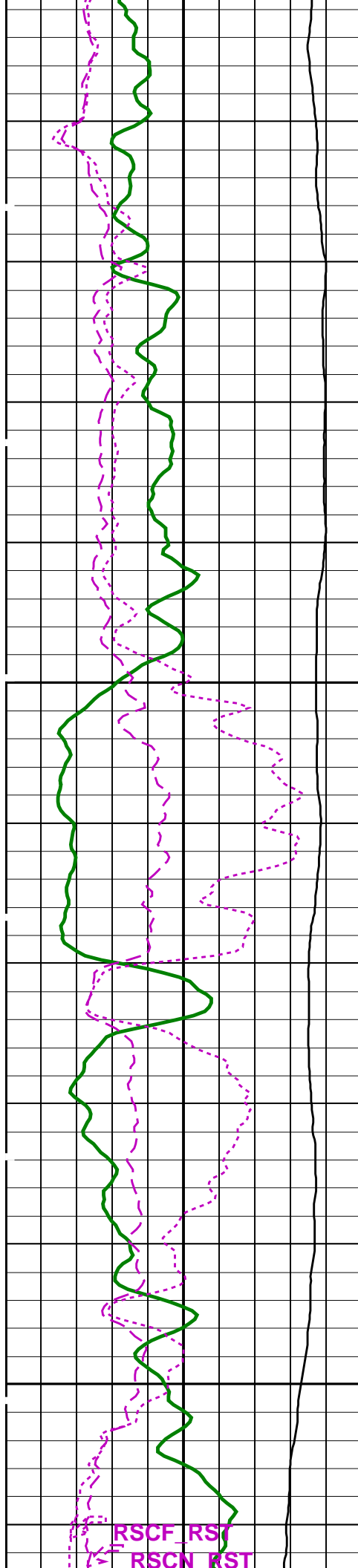
MCM

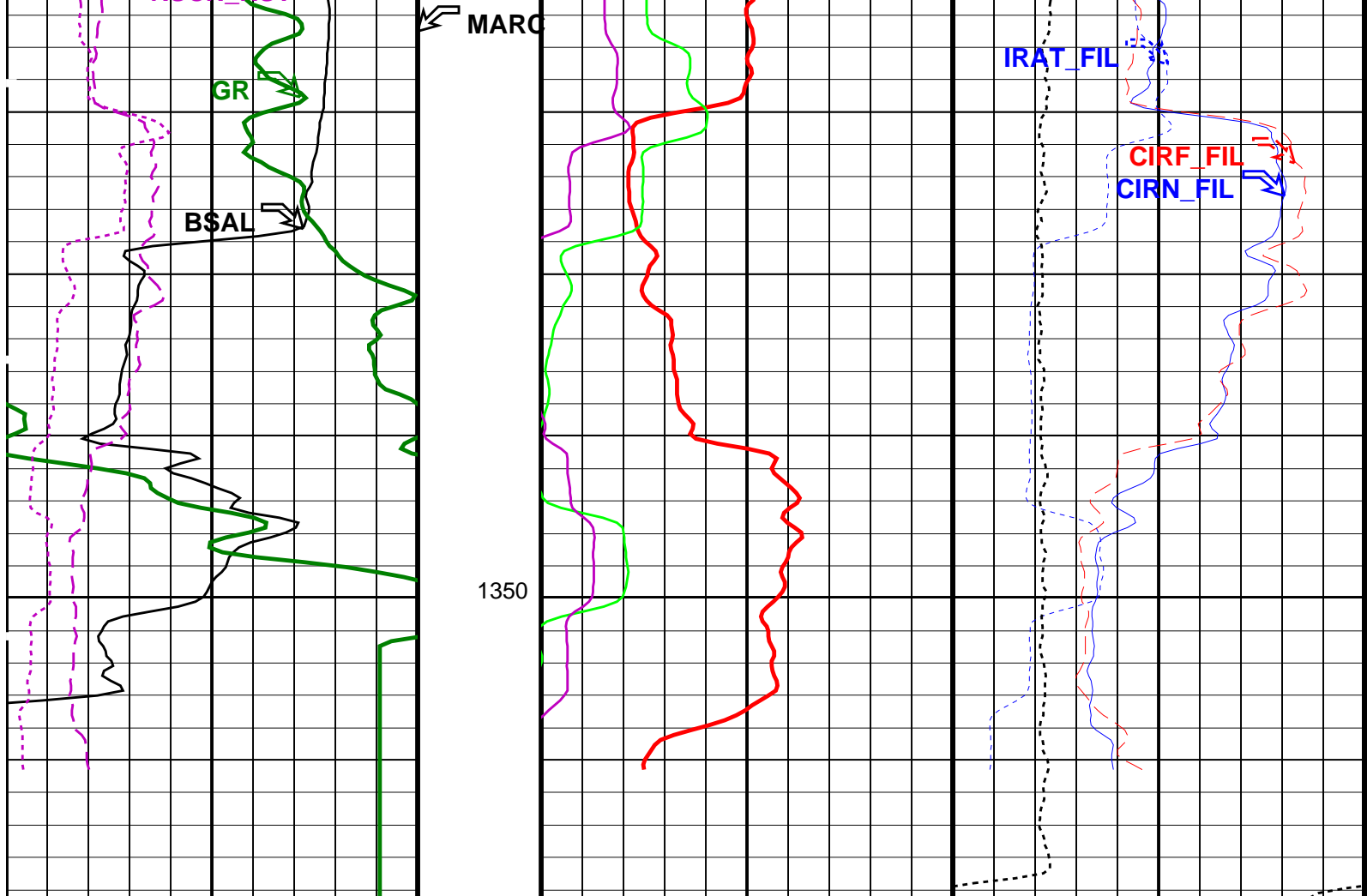
RST-C OP10-KP1 PSPT-B 10C0-306

PIP SUMMARY

Time Mark Every 60 S







| | | | |
|---|---|--|--|
| <div>RST Borehole Salinity (BSAL)</div> <div>450 (PPK) -100</div> | <div>Minitron Arc Detection (MARC)</div> <div>0 (---- 3</div> | <div>RST Sigma (SIGM)</div> <div>0 (CU) 50</div> | <div>RST Capture to Inelastic Ratio Near (CIRC_FIL)</div> <div>0 (---- 2</div> |
| <div>Gamma Ray (GR)</div> <div>0 (GAPI) 150</div> | | <div>RST Porosity (TPHI)</div> <div>1 (V/V) -1</div> | <div>RST Capture to Inelastic Ratio Far (CIRC_FIL)</div> <div>0 (---- 4</div> |
| <div>RST Near Effective Capture CR (RSCN_RST)</div> <div>0 (---- 50</div> | | <div>RST Weighted Inelastic Ratio (WINR_RST)</div> <div>-0.5 (---- 2.5</div> | <div>RST Inelastic Ratio (IRAT_FIL)</div> <div>0 (---- 1</div> |
| <div>RST Far Effective Capture CR (RSCF_RST)</div> <div>0 (---- 50</div> | | | <div>Tension (TENS)</div> <div>0 (LBF) 500</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 | CASED |
| CSID | Casing Size I.D. | 4.95 IN |
| DFPC | Depth Filter Processing Constant | One |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE |
| NORM_IRAT_RST | RST Normalized Inelastic Ratio | 0.48 |
| NORM_SIGM_RST | RST Normalized Sigma | 30 CU |
| RGAI | Near/Far Gain Calibration Ratio | 1 |
| PSPT-B: PSP BASIC TOOL | | |
| BHS | Borehole Status | CASED |
| CSID | Casing Size I.D. | 4.95 IN |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE |

| | | | | | |
|--------------------------|---------------------------|--|-----------|----------|--|
| System and Miscellaneous | | Root Matrix for Real-time Velocity Corrections | | TIMEZONE | |
| BS | Bit Size | | 8.500 | IN | |
| BSAL | Borehole Salinity | | -50000.00 | PPM | |
| CSIZ | Current Casing Size | | 5.500 | IN | |
| CWEI | Casing Weight | | 15.50 | LB/F | |
| DO | Depth Offset for Playback | | 0.0 | M | |
| PP | Playback Processing | | NORMAL | | |

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 19-Dec-2003 15:04

OP System Version: 10C0-306

MCM

RST-C OP10-KP1 PSPT-B 10C0-306

Input DLIS Files

DEFAULT RST_PSP_009LUP FN:8 PRODUCER 19-Dec-2003 11:44 1359.3 M 1263.9 M

Output DLIS Files

DEFAULT RST_PSP_038PUP FN:65 PRODUCER 19-Dec-2003 15:04

Schlumberger

Correlation Pass

MAXIS Field Log

Input DLIS Files

DEFAULT RST_PSP_005LUP FN:4 PRODUCER 19-Dec-2003 10:50 1363.4 M 1297.7 M

Output DLIS Files

DEFAULT RST_PSP_032PUP FN:53 PRODUCER 19-Dec-2003 14:44

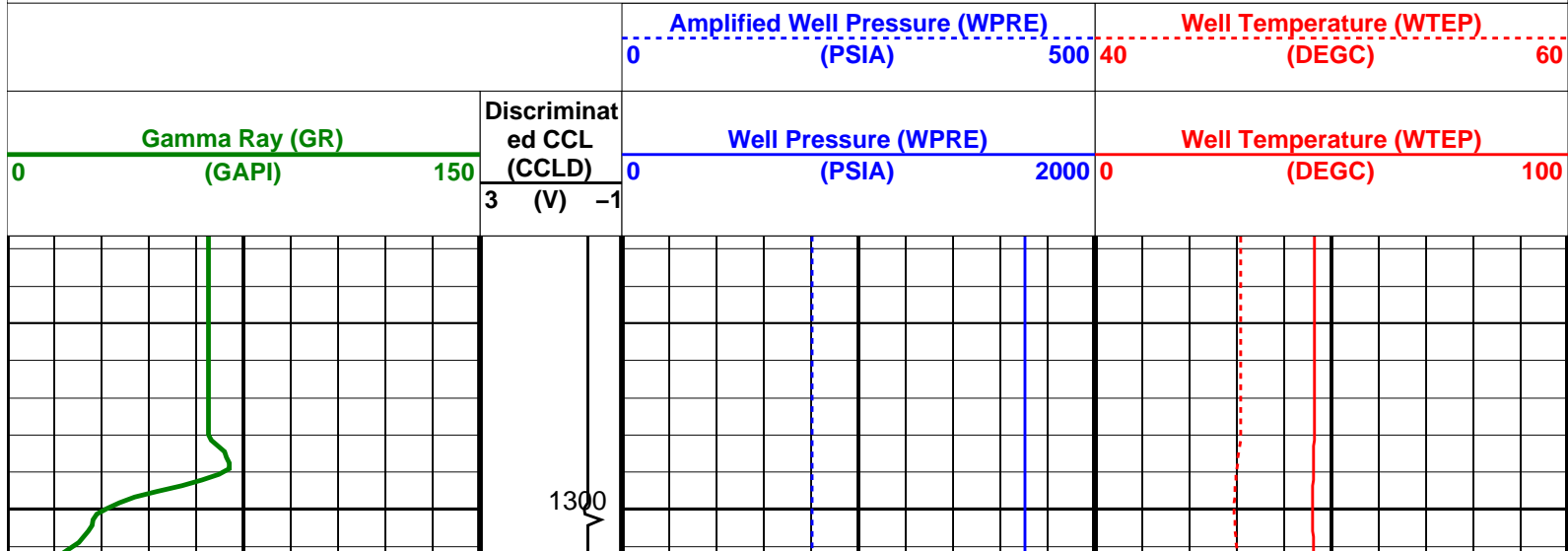
OP System Version: 10C0-306

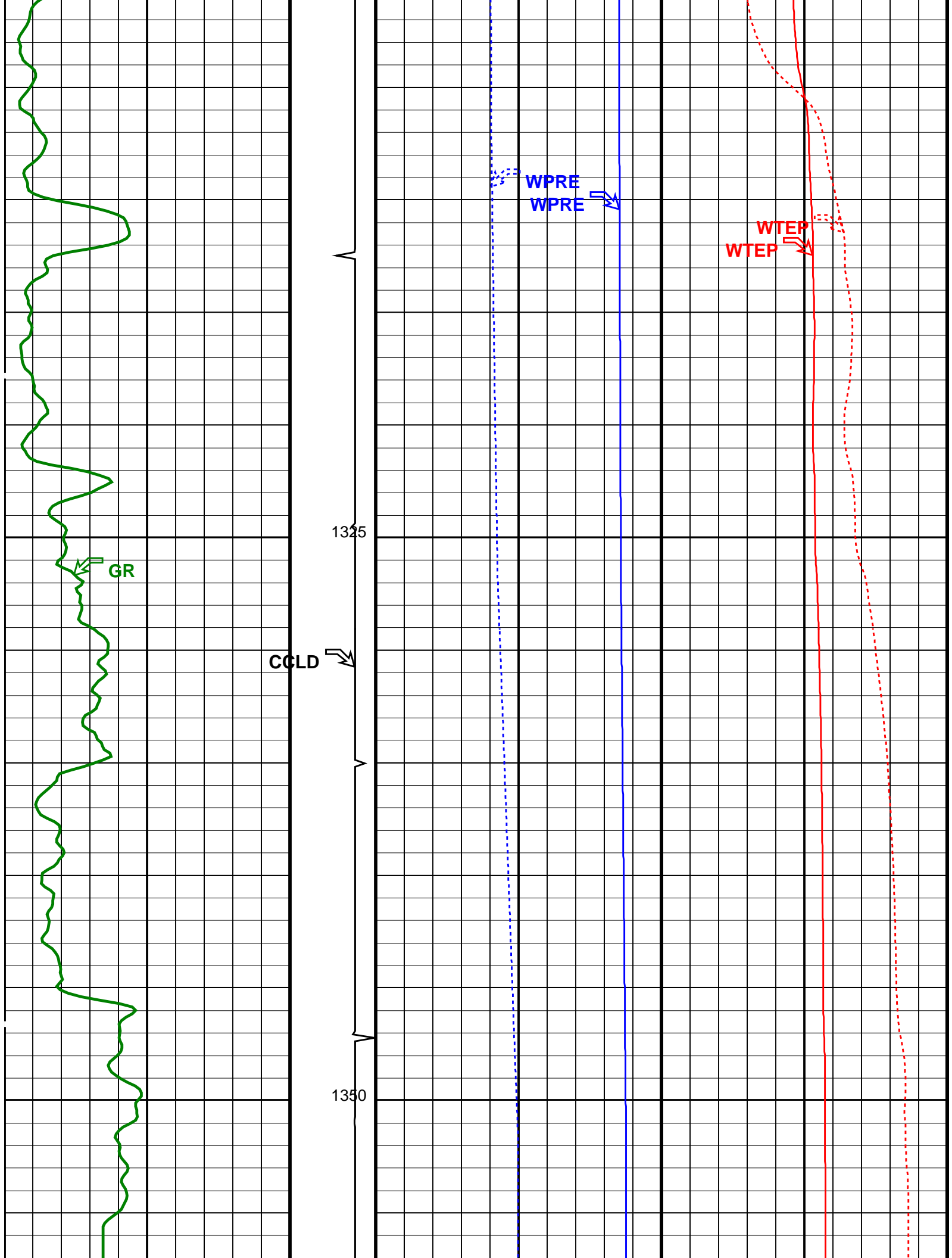
MCM

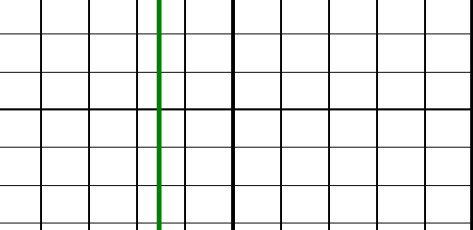
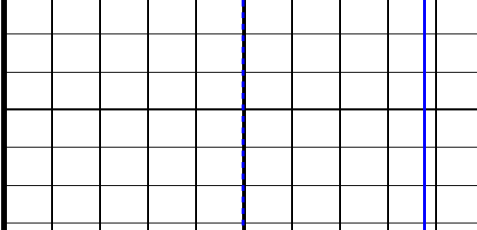
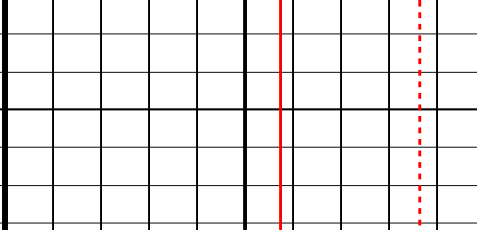
RST-C OP10-KP1 PSPT-B 10C0-306

PIP SUMMARY

Time Mark Every 60 S





| | | | |
|--|---|--|---|
|  | |  |  |
| Gamma Ray (GR) 0 ————— 150 (GAPI) | Discriminat ed CCL (CCLD) 3 (V) -1 | Well Pressure (WPRES) 0 ————— 2000 (PSIA) | Well Temperature (WTEMP) 0 ————— 100 (DEGC) |
| | | Amplified Well Pressure (WPRES) 0 ----- 500 (PSIA) | Well Temperature (WTEMP) 40 ----- 60 (DEGC) |

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200

Graphics File Created: 19-Dec-2003 14:44

OP System Version: 10C0-306

MCM

| | | | |
|-------|----------|--------|----------|
| RST-C | OP10-KP1 | PSPT-B | 10C0-306 |
|-------|----------|--------|----------|

Parameters

| DLIS Name | Description | Value |
|-----------|---------------------------|--------|
| DO | System and Miscellaneous | |
| PP | Depth Offset for Playback | 0.0 M |
| | Playback Processing | NORMAL |

Input DLIS Files

| | | | | | | |
|---------|----------------|------|----------|-------------------|----------|----------|
| DEFAULT | RST PSP 005LUP | FN:4 | PRODUCER | 19-Dec-2003 10:50 | 1363.4 M | 1297.7 M |
|---------|----------------|------|----------|-------------------|----------|----------|

Output DLIS Files

DEFAULT RST PSP 032PUP FN:53 PRODUCER 19-Dec-2003 14:44

Company: **TXU Gas Storage**

Schlumberger

Well: Iona-1

Field: lona

Rig: **Crane**

Country: **Australia**

RST-Sigma Survey
Static Gradient Survey
1/200 Scale