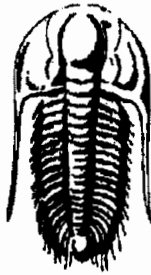


IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Orin Phelps

20 25 S9W Reno KS

Zink #2

Start Date: 2007.12.06 @ 19:59:26

End Date: 2007.12.07 @ 05:41:26

Job Ticket #: 28403 DST #: 1

**CONFIDENTIAL
MAR 07 2008
KCC**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Lotus Operating Co LLC

Zink #2

20 25 S9W Reno KS

DST # 1

Mississippi

2007.12.06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

ATTN: Orlin Phelps

Job Ticket: 28403

DST#: 1

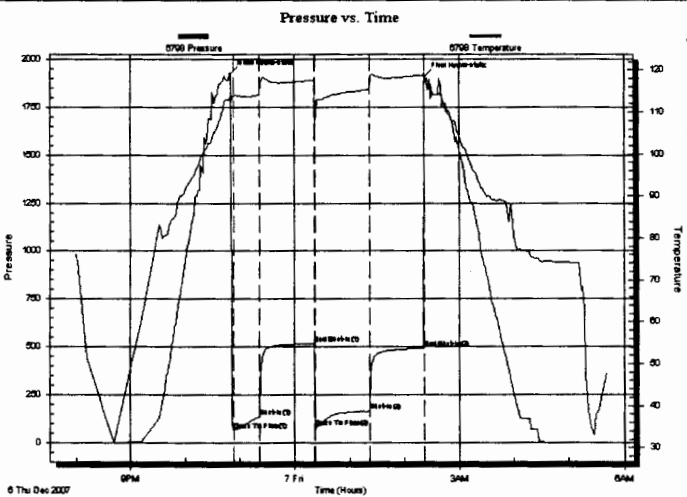
Test Start: 2007.12.06 @ 19:59:26

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 22:53:56
 Time Test Ended: 05:41:26
 Interval: **3884.00 ft (KB) To 3898.00 ft (KB) (TVD)**
 Total Depth: 3898.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Jerry Adams Kevin Ta
 Unit No: 36
 Reference Elevations: 1707.00 ft (KB)
 1702.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 163.04 psig @ 3885.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2007.12.06 End Date: 2007.12.07 Last Calib.: 2007.12.07
 Start Time: 19:59:27 End Time: 05:41:26 Time On Btm: 2007.12.06 @ 22:50:26
 Time Off Btm: 2007.12.07 @ 02:21:56

TEST COMMENT: IF Strong blow BOB in 10 secs. GTS in 6 mins. (see gas flow report)
 ISI Weak blow Built to 6 1/2".
 FF Strong blow BOB immediately
 FSI Fair blow BOB in 20 mins.



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1923.58 | 113.36 | Initial Hydro-static |
| 4 | 65.25 | 113.98 | Open To Flow (1) |
| 32 | 136.28 | 114.08 | Shut-In(1) |
| 91 | 516.63 | 117.64 | End Shut-In(1) |
| 92 | 77.84 | 107.46 | Open To Flow (2) |
| 151 | 163.04 | 115.43 | Shut-In(2) |
| 211 | 492.82 | 118.81 | End Shut-In(2) |
| 212 | 1909.88 | 117.63 | Final Hydro-static |

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 60.00 | HG&WCOM 35%G 20%O 30%W 15%M | 0.30 |
| 124.00 | SMCOGO w/trace of Water 45%G 45%O | 10.61 |
| 76.00 | SMCOGO w/ trace of Water 45%G 45%O | 1.07 |
| 0.00 | 3626' GIP | 0.00 |
| 0.00 | | 0.00 |

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 17.00 | 49.81 |
| Last Gas Rate | 0.25 | 66.00 | 135.20 |
| Max. Gas Rate | 0.25 | 66.00 | 135.20 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

Job Ticket: 28403

DST#: 1

ATTN: Orlin Phelps

Test Start: 2007.12.06 @ 19:59:26

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3702.00 ft | Diameter: 3.80 inches | Volume: 51.93 bbl | Tool Weight: | 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 184.00 ft | Diameter: 2.25 inches | Volume: 0.90 bbl | Weight to Pull Loose: | 65000.00 lb |
| | | | <u>Total Volume: 52.83 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 25.00 ft | | | String Weight: Initial | 59000.00 lb |
| Depth to Top Packer: | 3884.00 ft | | | Final | 63000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 14.00 ft | | | | |
| Tool Length: | 37.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |
| Tool Comments: | | | | | |

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3866.00 | |
| Hydraulic tool | 5.00 | | | 3871.00 | |
| Safety Joint | 3.00 | | | 3874.00 | |
| Packer | 5.00 | | | 3879.00 | 23.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3884.00 | |
| Stubb | 1.00 | | | 3885.00 | |
| Recorder | 0.00 | 6798 | Inside | 3885.00 | |
| Recorder | 0.00 | 8358 | Inside | 3885.00 | |
| Perforations | 10.00 | | | 3895.00 | |
| Bullnose | 3.00 | | | 3898.00 | 14.00 Bottom Packers & Anchor |
| Total Tool Length: | 37.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

Job Ticket: 28403

DST#: 1

ATTN: Orlin Phelps

Test Start: 2007.12.06 @ 19:59:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------------------|---------------|
| 60.00 | HG&WCOM 35%G 20%O 30%W 15%M | 0.295 |
| 124.00 | SMCGO w/trace of Water 45%G 45%O 10%t | 0.610 |
| 76.00 | SMCGO w/ trace of Water 45%G 45%O 10% | 1.066 |
| 0.00 | 3626' GIP | 0.000 |
| 0.00 | | 0.000 |

Total Length: 260.00 ft

Total Volume: 1.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GA-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

Job Ticket: 28403

DST#: 1

ATTN: Orlin Phelps

Test Start: 2007.12.06 @ 19:59:26

Gas Rates Information

Temperature: 2 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1 | 10 | 0.25 | 17.00 | 49.81 |
| 1 | 10 | 0.25 | 17.00 | 52.80 |
| 1 | 20 | 0.25 | 40.00 | 91.48 |
| 1 | 30 | 0.25 | 61.00 | 126.79 |
| 2 | 10 | 0.25 | 35.00 | 83.07 |
| 2 | 20 | 0.25 | 58.00 | 121.74 |
| 2 | 30 | 0.25 | 64.00 | 131.83 |
| 2 | 40 | 0.25 | 66.00 | 135.20 |
| 2 | 60 | 0.25 | 66.00 | 135.20 |

Serial #: 6798

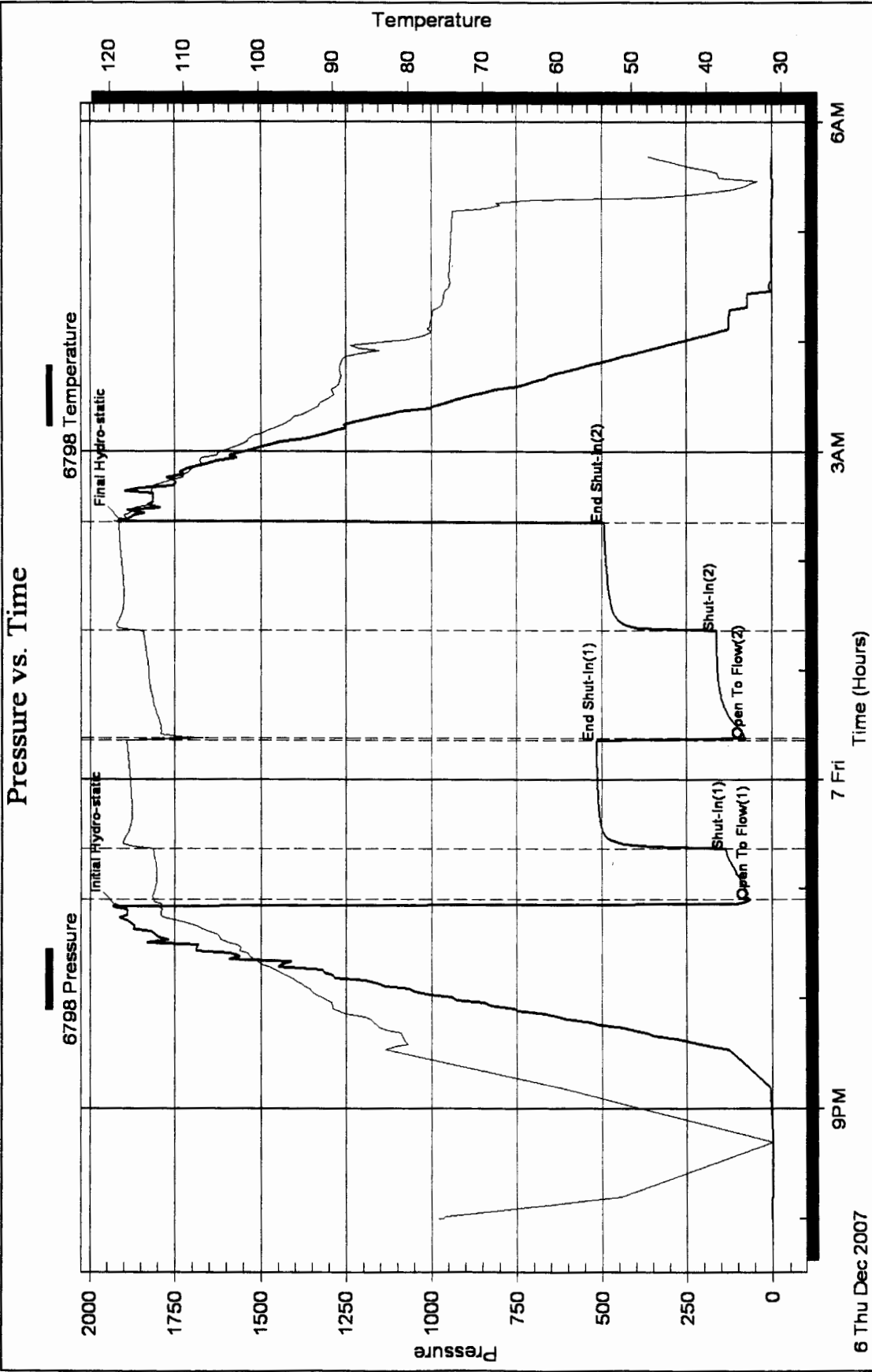
Inside

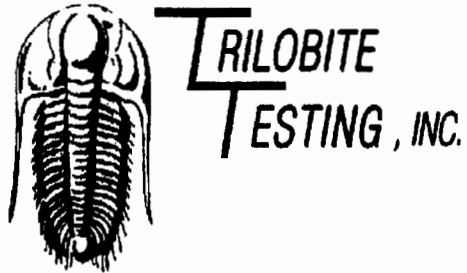
Lotus Operating Co LLC

20 25 S9W Reno KS

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Orin Phelps

20 25 S9W Reno KS

Zink #2

Start Date: 2007.12.07 @ 13:19:14

End Date: 2007.12.07 @ 22:57:14

Job Ticket #: 28404 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Lotus Operating Co LLC

Zink #2

20 25 S9W Reno KS

DST # 2

mississippi

2007.12.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

ATTN: Orlin Phelps

Job Ticket: 28404

DST#: 2

Test Start: 2007.12.07 @ 13:19:14

GENERAL INFORMATION:

Formation: **mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:44

Time Test Ended: 22:57:14

Test Type: Conventional Bottom Hole

Tester: Jerry Adams Kevin Ta

Unit No: 36

Interval: **3898.00 ft (KB) To 3913.00 ft (KB) (TVD)**

Reference Elevations: 1707.00 ft (KB)

Total Depth: 3913.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 34.05 psig @ 3899.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.12.07

End Date: 2007.12.07

Last Calib.: 2007.12.07

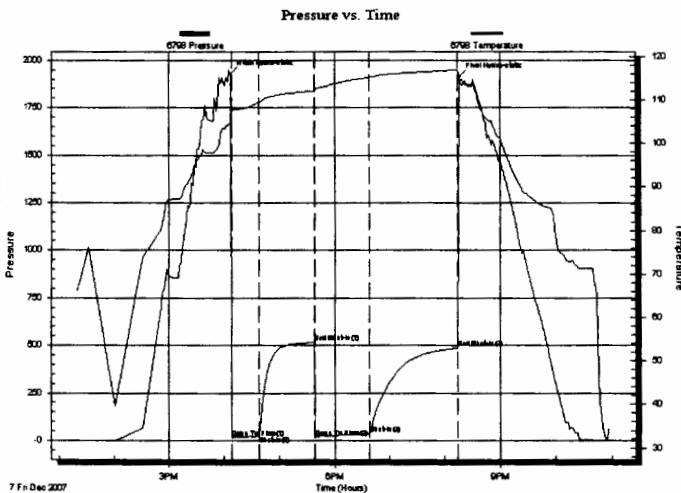
Start Time: 13:19:15

End Time: 22:57:14

Time On Btm: 2007.12.07 @ 16:06:44

Time Off Btm: 2007.12.07 @ 20:16:14

TEST COMMENT: IF Strong blow BOB in 5 mins.
ISI No blow
FF Strong blow BOB immediately
FSI No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1928.98 | 104.53 | Initial Hydro-static |
| 2 | 15.87 | 107.21 | Open To Flow (1) |
| 31 | 23.90 | 109.36 | Shut-In(1) |
| 92 | 515.72 | 112.11 | End Shut-In(1) |
| 92 | 15.24 | 112.24 | Open To Flow (2) |
| 151 | 34.05 | 115.12 | Shut-In(2) |
| 248 | 486.40 | 116.89 | End Shut-In(2) |
| 250 | 1910.84 | 114.95 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 15.00 | SG&OCM 4%G 6%O 90%M | 0.07 |
| 0.00 | 345' GIP | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

Job Ticket: 28404

DST#: 2

ATTN: Orlin Phelps

Test Start: 2007.12.07 @ 13:19:14

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3702.00 ft | Diameter: 3.80 inches | Volume: 51.93 bbl | Tool Weight: | 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 184.00 ft | Diameter: 2.25 inches | Volume: 0.90 bbl | Weight to Pull Loose: | 80000.00 lb |
| | | | Total Volume: 52.83 bbl | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 11.00 ft | | | String Weight: Initial | 63000.00 lb |
| Depth to Top Packer: | 3898.00 ft | | | Final | 63000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 15.00 ft | | | | |
| Tool Length: | 38.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3880.00 | |
| Hydraulic tool | 5.00 | | | 3885.00 | |
| Safety Joint | 3.00 | | | 3888.00 | |
| Packer | 5.00 | | | 3893.00 | 23.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3898.00 | |
| Stubb | 1.00 | | | 3899.00 | |
| Recorder | 0.00 | 6798 | Inside | 3899.00 | |
| Recorder | 0.00 | 8358 | Inside | 3899.00 | |
| Perforations | 11.00 | | | 3910.00 | |
| Bullnose | 3.00 | | | 3913.00 | 15.00 Bottom Packers & Anchor |
| Total Tool Length: | 38.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co LLC

Zink #2

100 S Main Ste 420
Wichita KS 67202

20 25 S9W Reno KS

Job Ticket: 28404

DST#: 2

ATTN: Orlin Phelps

Test Start: 2007.12.07 @ 13:19:14

Mud and Cushion Information

| | | | |
|-----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 62.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 11.18 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 8600.00 ppm | | | |
| Filter Cake: 0.20 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 15.00 | SG&OCM 4%G 6%O 90%M | 0.074 |
| 0.00 | 345' GIP | 0.000 |

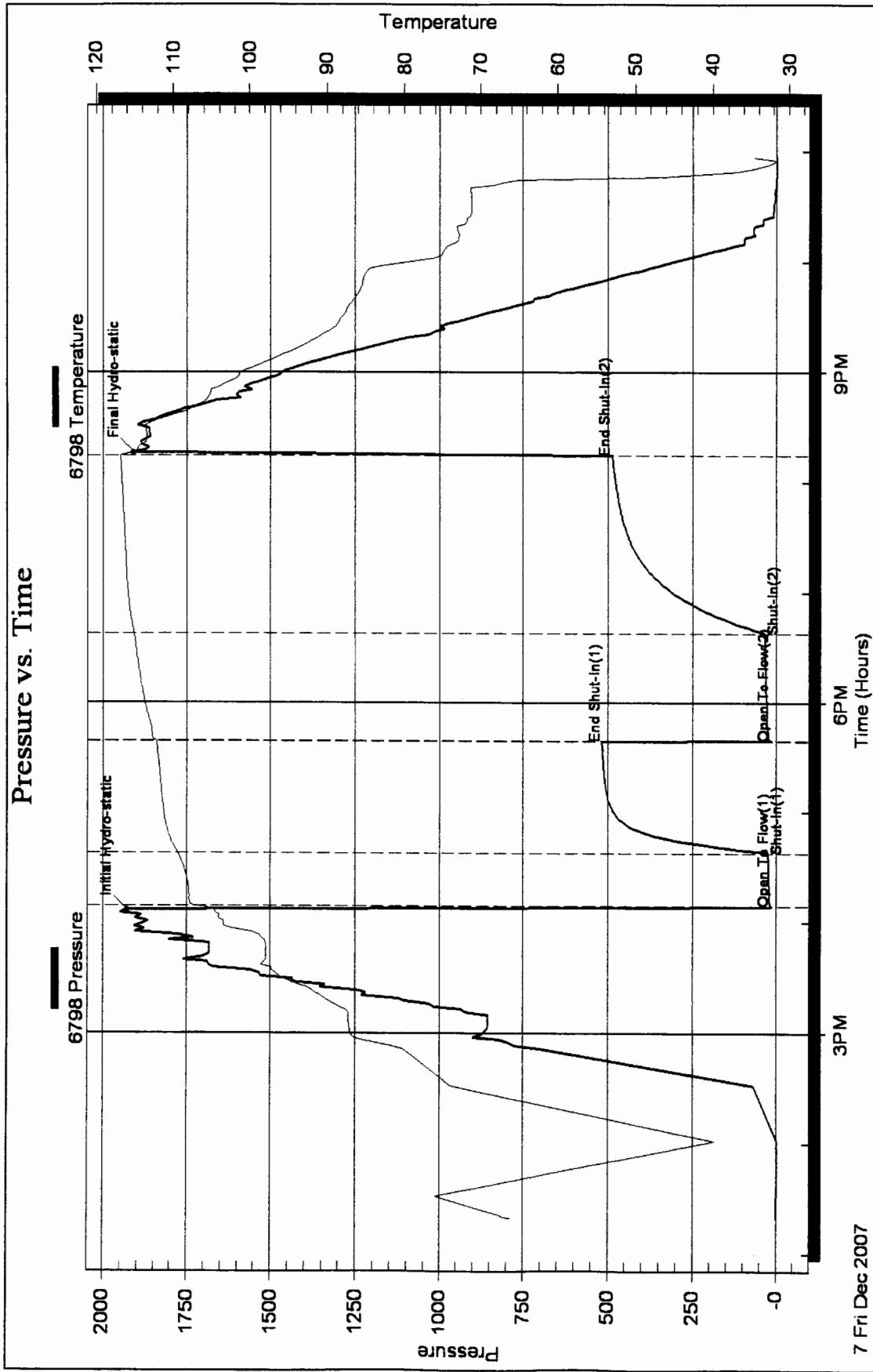
Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



7 Fri Dec 2007

