



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Ste. # 300
Wichita, KS
ATTN: Paul Gunzelman

Peterson A 1-6
6/8S/14W-Osborne
Job Ticket: 45245 **DST#: 1**
Test Start: 2011.09.15 @ 05:26:30

Mud and Cushion Information

| | | | |
|-----------------------------|----------------------------|-----------------|----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 10.00 lb/gal | Cushion Length: ft | Water Salinity: | 7500 ppm |
| Viscosity: 30.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: in ³ | Gas Cushion Type: | | |
| Resistivity: 1.08 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 48000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 5.00 | 100%Mud | 0.025 |
| 9.00 | 50%Water/50%Mud | 0.044 |
| 1.00 | 2%Oil/48%Water/50%Mud | 0.005 |

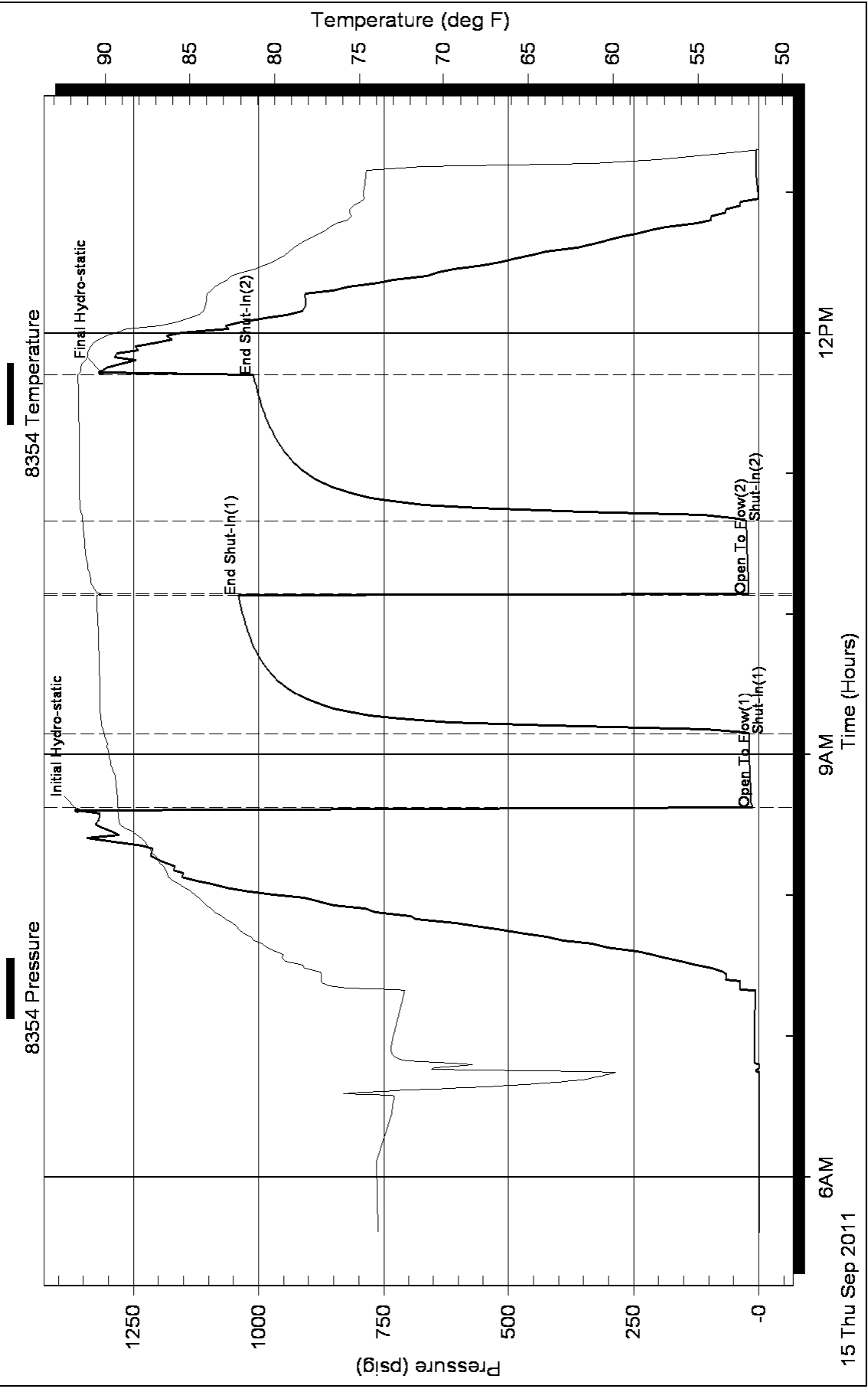
Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Ste. # 300
Wichita, KS
ATTN: Paul Gunzelman

Peterson A 1-6
6/8S/14W-Osborne
Job Ticket: 45246 **DST#: 2**
Test Start: 2011.09.16 @ 08:39:30

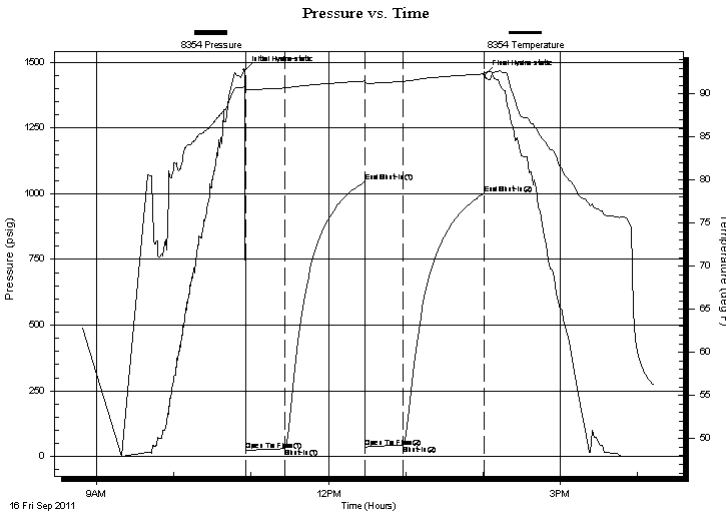
GENERAL INFORMATION:

Formation: **Toronto & LKC "A-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:56:00
Time Test Ended: 16:13:30
Interval: **2980.00 ft (KB) To 3097.00 ft (KB) (TVD)**
Total Depth: 3097.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Reference Elevations: 1836.00 ft (KB)
1831.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 38

Serial #: 8354 Inside
Press @ Run Depth: 42.12 psig @ 3081.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.09.16 End Date: 2011.09.16 Last Calib.: 2011.09.16
Start Time: 08:49:30 End Time: 16:13:30 Time On Btm: 2011.09.16 @ 10:55:00
Time Off Btm: 2011.09.16 @ 14:01:30

TEST COMMENT: IF-Very weak surging surface blow .
ISI-No Return.
FF-Very weak surging surface blow .
FSI-No Return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1468.71 | 90.79 | Initial Hydro-static |
| 1 | 22.60 | 90.54 | Open To Flow (1) |
| 32 | 30.11 | 90.69 | Shut-In(1) |
| 93 | 1044.19 | 91.50 | End Shut-In(1) |
| 94 | 35.24 | 91.27 | Open To Flow (2) |
| 123 | 42.12 | 91.44 | Shut-In(2) |
| 186 | 1000.03 | 92.31 | End Shut-In(2) |
| 187 | 1451.14 | 92.48 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 12.00 | 100%Oil/w ith very slight oil skim | 0.06 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Ste. # 300
Wichita, KS
ATTN: Paul Gunzelman

Peterson A 1-6
6/8S/14W-Osborne
Job Ticket: 45246 **DST#: 2**
Test Start: 2011.09.16 @ 08:39:30

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: 51.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.40 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1400.00 ppm | | | |
| Filter Cake: inches | | | |

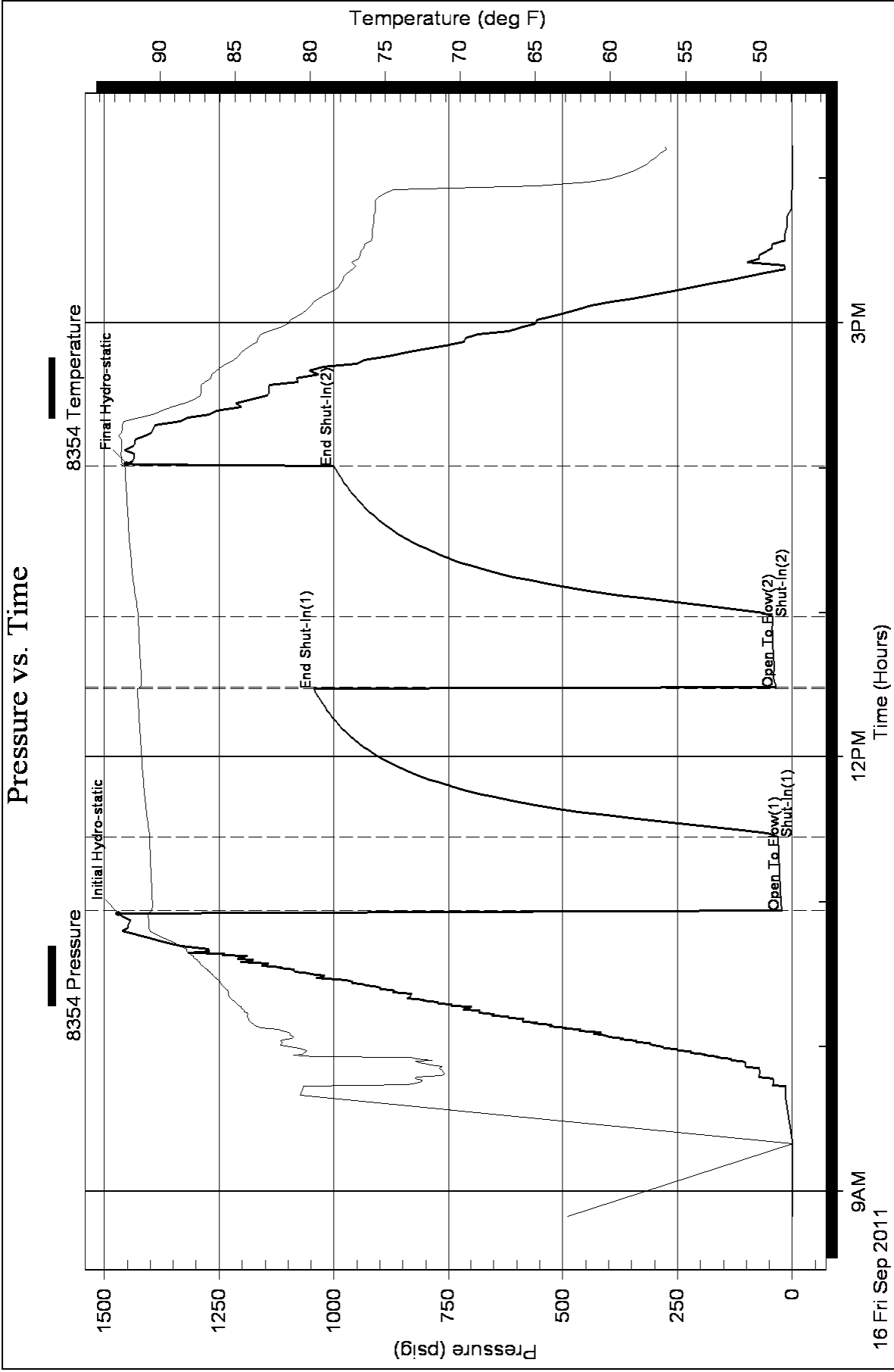
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------------------|---------------|
| 12.00 | 100%Oil/w ith very slight oil skim | 0.059 |

Total Length: 12.00 ft Total Volume: 0.059 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Ste. # 300
Wichita, KS
ATTN: Paul Gunzelman

Peterson A 1-6
6/8S/14W-Osborne
Job Ticket: 45247 **DST#: 3**
Test Start: 2011.09.17 @ 01:37:30

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: 48.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.40 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2500.00 ppm | | | |
| Filter Cake: inches | | | |

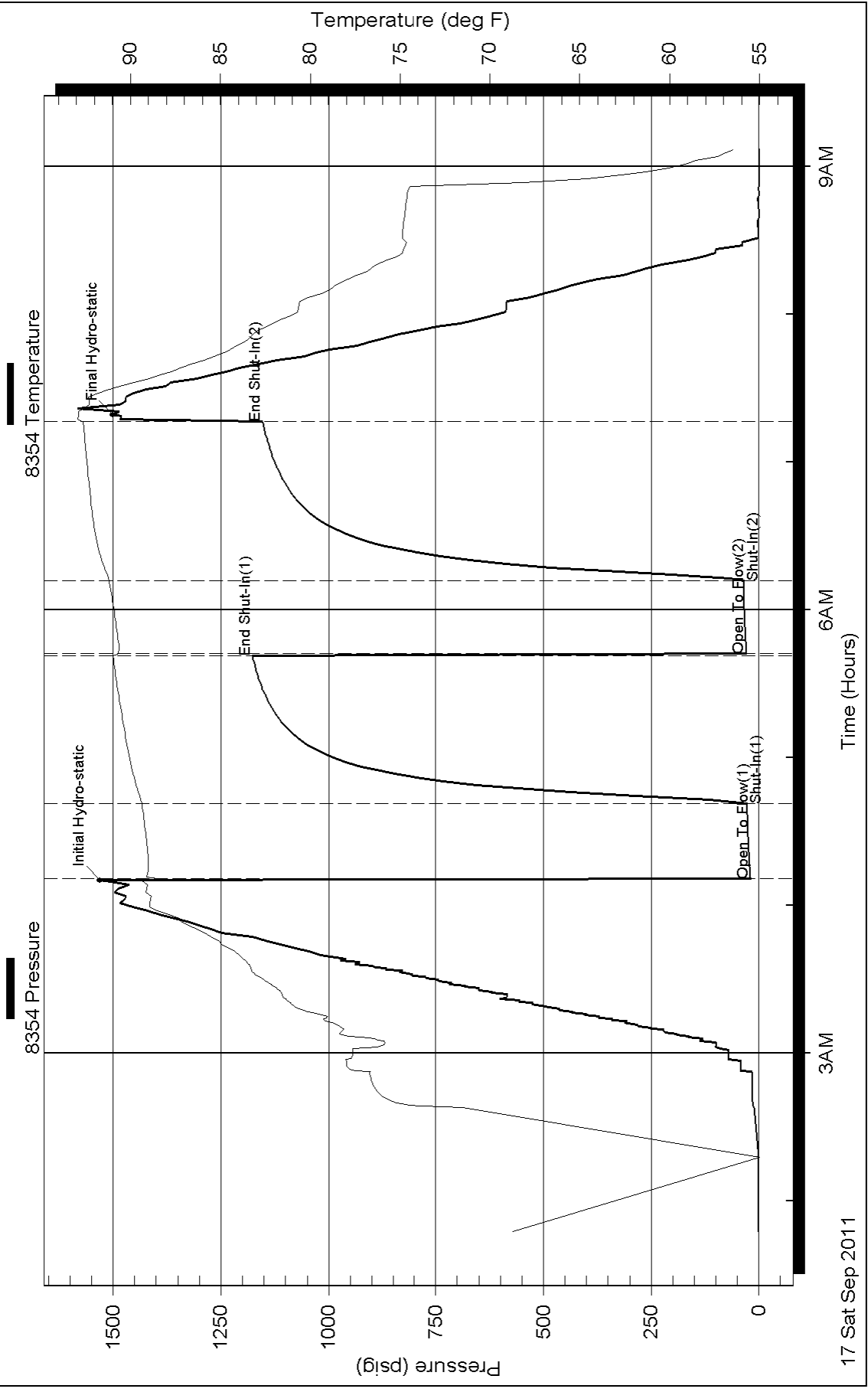
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 20.00 | 100%Mud | 0.098 |

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



17 Sat Sep 2011

3AM

6AM

9AM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Ste. # 300
Wichita, KS
ATTN: Paul Gunzelman

Peterson A 1-6
6/8S/14W-Osborne
Job Ticket: 45248 **DST#: 4**
Test Start: 2011.09.17 @ 23:15:30

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: 46.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 3000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 30.00 | 100%Mud | 0.148 |

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

