



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corporation**

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

Younger #3

25-13s-20w Ellis,KS

Start Date: 2019.11.20 @ 09:37:00

End Date: 2019.11.20 @ 15:56:00

Job Ticket #: 65710 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.11.22 @ 09:59:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65710

DST#: 1

ATTN: Cameron Brin

Test Start: 2019.11.20 @ 09:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:29:00

Time Test Ended: 15:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 3774.00 ft (KB) To 3815.00 ft (KB) (TVD)

Reference Elevations: 2200.00 ft (KB)

Total Depth: 3815.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 97.08 psig @ 3775.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.20 End Date: 2019.11.20

Last Calib.: 2019.11.20

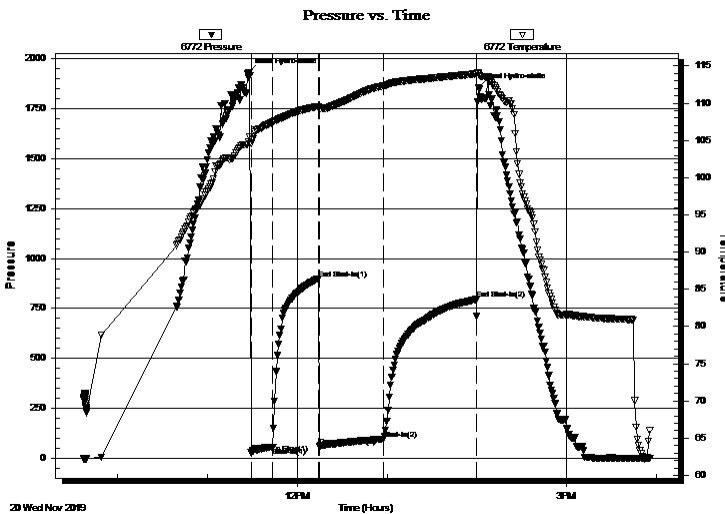
Start Time: 09:37:01 End Time: 15:56:00

Time On Btm: 2019.11.20 @ 11:27:30

Time Off Btm: 2019.11.20 @ 14:01:09

TEST COMMENT: IF-15- built to 11 1/2 "
ISI-30- no blow back
FF-45- BOB 18 mins total build of 33 1/2"
FSI-60- weak surface blow back

PRESSURE SUMMARY



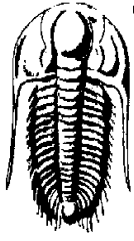
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1928.88 | 104.83 | Initial Hydro-static |
| 2 | 29.09 | 104.52 | Open To Flow (1) |
| 17 | 57.02 | 107.47 | Shut-In(1) |
| 47 | 898.53 | 109.57 | End Shut-In(1) |
| 48 | 62.83 | 109.37 | Open To Flow (2) |
| 91 | 97.08 | 112.32 | Shut-In(2) |
| 152 | 794.96 | 113.94 | End Shut-In(2) |
| 154 | 1850.63 | 113.92 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 120.00 | GMCO 5%g 55%O 40%M | 1.40 |
| 60.00 | GMCO 10%G 70%O 20%M | 0.84 |
| 20.00 | GCO 10%G 90%O | 0.28 |
| 0.00 | GIP 40' | 0.00 |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation
PO Box 1121
Hays KS 67601+1121
ATTN: Cameron Brin

25-13s-20w Ellis, KS
Younger #3
Job Ticket: 65710 **DST#: 1**
Test Start: 2019.11.20 @ 09:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:29:00
Time Test Ended: 15:56:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Benny Mulligan
Unit No: 67

Interval: 3774.00 ft (KB) To 3815.00 ft (KB) (TVD)
Total Depth: 3815.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2200.00 ft (KB)
 2192.00 ft (CF)
KB to GR/CF: 8.00 ft

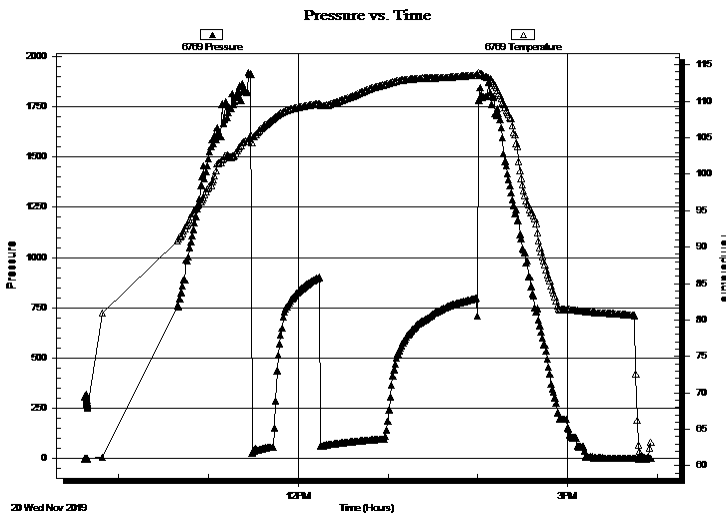
Serial #: 6769 Outside

Press@RunDepth: psig @ 3775.00 ft (KB)
Start Date: 2019.11.20 End Date: 2019.11.20
Start Time: 09:37:01 End Time: 15:56:00

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-15- built to 11 1/2 "
ISI-30- no blow back
FF-45- BOB 18 mins total build of 33 1/2"
FSI-60- weak surface blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
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Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 120.00 | GMCO 5%g 55%O 40%M | 1.40 |
| 60.00 | GMCO 10%G 70%O 20%M | 0.84 |
| 20.00 | GCO 10%G 90%O | 0.28 |
| 0.00 | GIP 40' | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65710

DST#: 1

ATTN: Cameron Brin

Test Start: 2019.11.20 @ 09:37:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3739.00 ft | Diameter: 3.80 inches | Volume: 52.45 bbl | Tool Weight: 2500.00 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: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 52.60 bbl</u> | Tool Chased 5.00 ft |
| Drill Pipe Above KB: | 16.00 ft | | | String Weight: Initial 51000.00 lb |
| Depth to Top Packer: | 3774.00 ft | | | Final 53000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 41.00 ft | | | |
| Tool Length: | 61.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3755.00 | |
| Shut In Tool | 5.00 | | | 3760.00 | |
| Hydraulic tool | 5.00 | | | 3765.00 | |
| Packer | 5.00 | | | 3770.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3774.00 | |
| Stubb | 1.00 | | | 3775.00 | |
| Recorder | 0.00 | 6772 | Inside | 3775.00 | |
| Recorder | 0.00 | 6769 | Outside | 3775.00 | |
| Perforations | 4.00 | | | 3779.00 | |
| Change Over Sub | 1.00 | | | 3780.00 | |
| Drill Pipe | 31.00 | | | 3811.00 | |
| Change Over Sub | 1.00 | | | 3812.00 | |
| Bullnose | 3.00 | | | 3815.00 | 41.00 Bottom Packers & Anchor |

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65710

DST#: 1

ATTN: Cameron Brin

Test Start: 2019.11.20 @ 09:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 120.00 | GMCO 5%g 55%O 40%M | 1.401 |
| 60.00 | GMCO 10%G 70%O 20%M | 0.842 |
| 20.00 | GCO 10%G 90%O | 0.281 |
| 0.00 | GIP 40' | 0.000 |

Total Length: 200.00 ft

Total Volume: 2.524 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

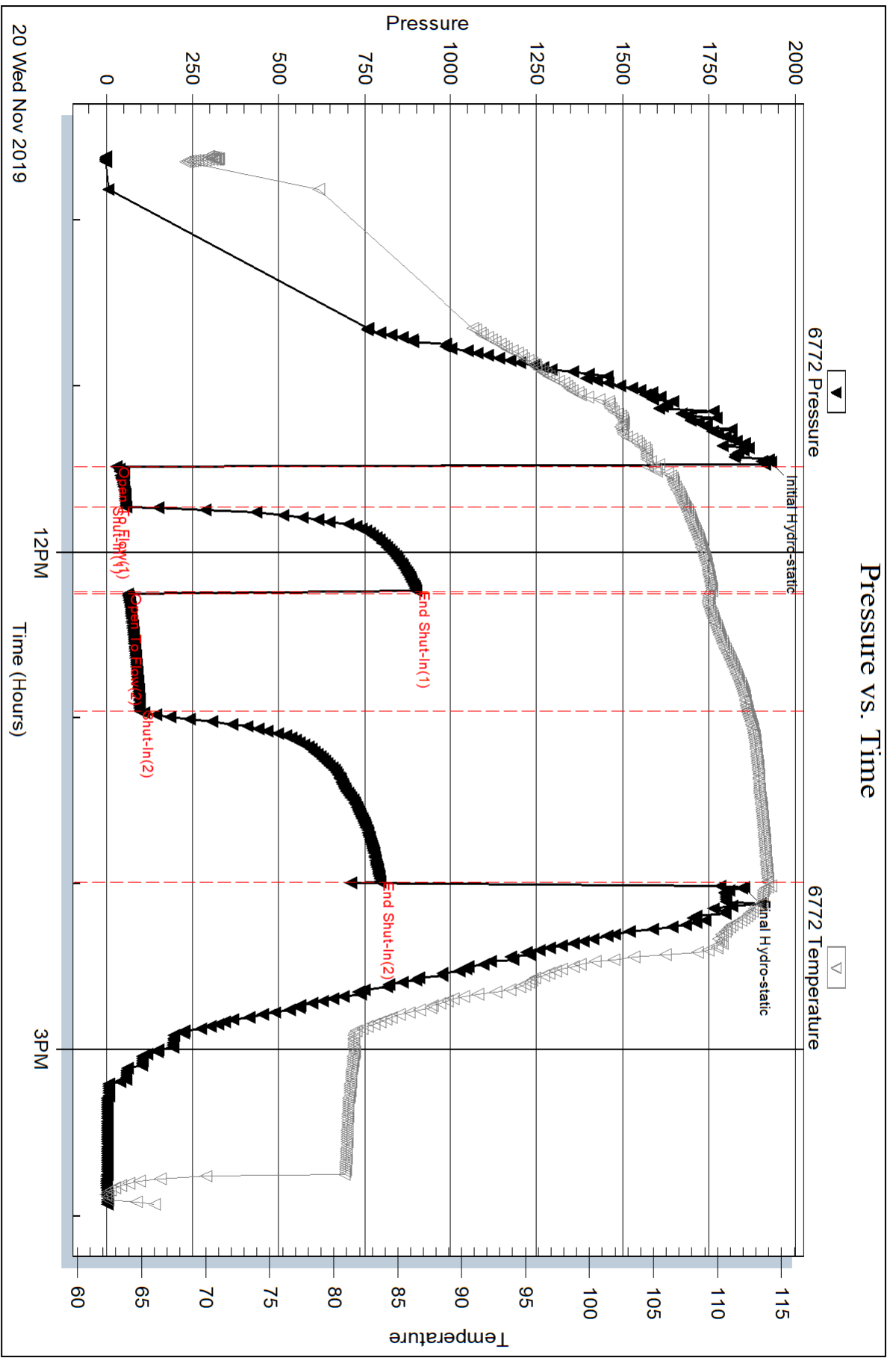
Serial #: 6772

Inside

Mustang Energy Corporation

Younger #3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65710

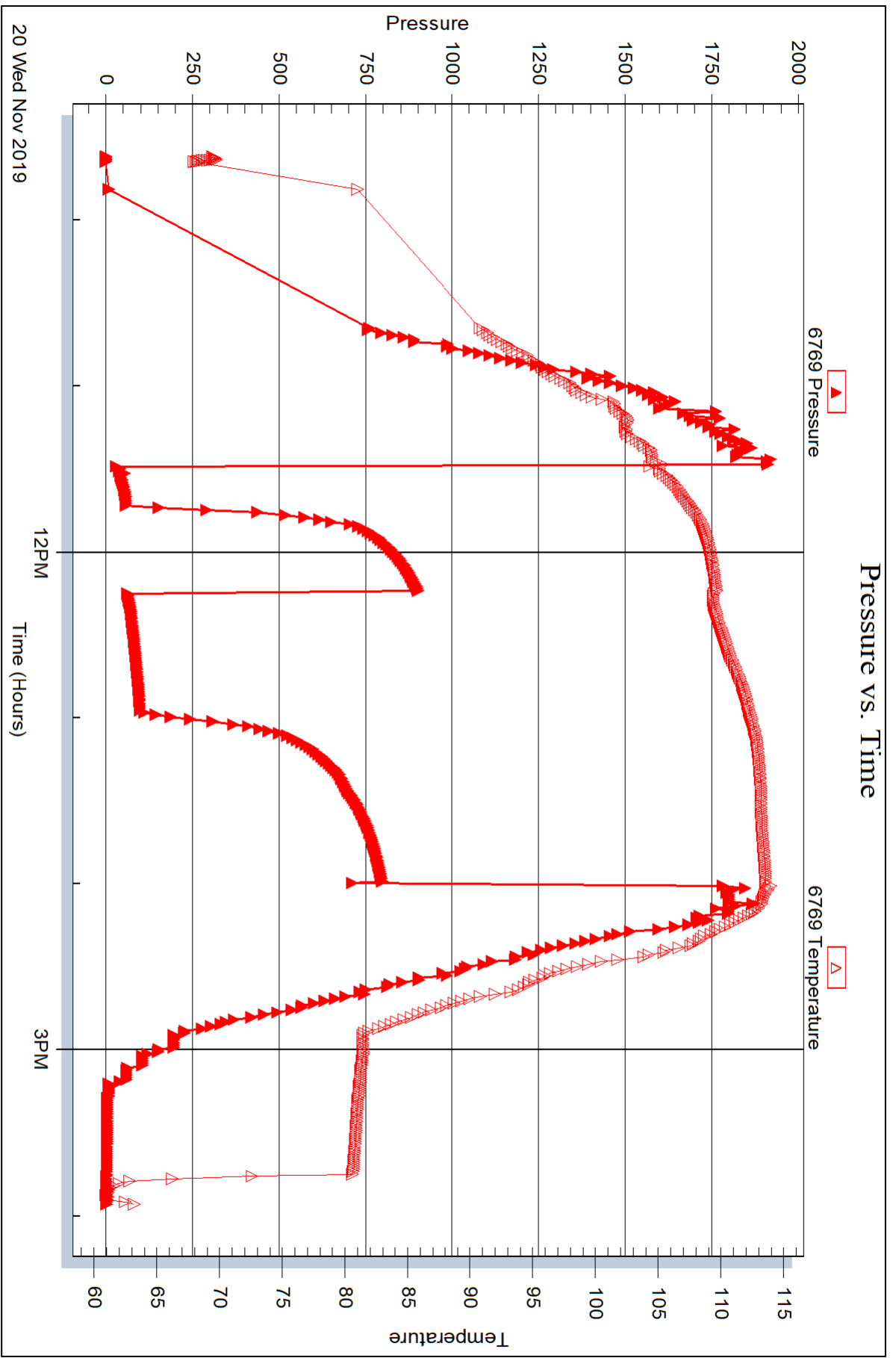
Printed: 2019-11-22 @ 09:59:35

Serial #: 6769

Outside Mustang Energy Corporation

Younger #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65710

Printed: 2019-11-22 @ 09:59:35



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corporation**

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

Younger #3

25-13s-20w Ellis,KS

Start Date: 2019.11.20 @ 21:27:00

End Date: 2019.11.21 @ 05:49:50

Job Ticket #: 65711 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.11.22 @ 09:53:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation
 PO Box 1121
 Hays KS 67601+1121
 ATTN: Cameron Brin

25-13s-20w Ellis,KS

Younger #3

Job Ticket: 65711

DST#: 2

Test Start: 2019.11.20 @ 21:27:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:48:50

Time Test Ended: 05:49:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: **3815.00 ft (KB) To 3823.00 ft (KB) (TVD)**

Reference Elevations: 2200.00 ft (KB)

Total Depth: 3823.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772

Inside

Press@RunDepth: 154.68 psig @ 3816.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.20

End Date:

2019.11.21

Last Calib.: 2019.11.21

Start Time: 21:27:01

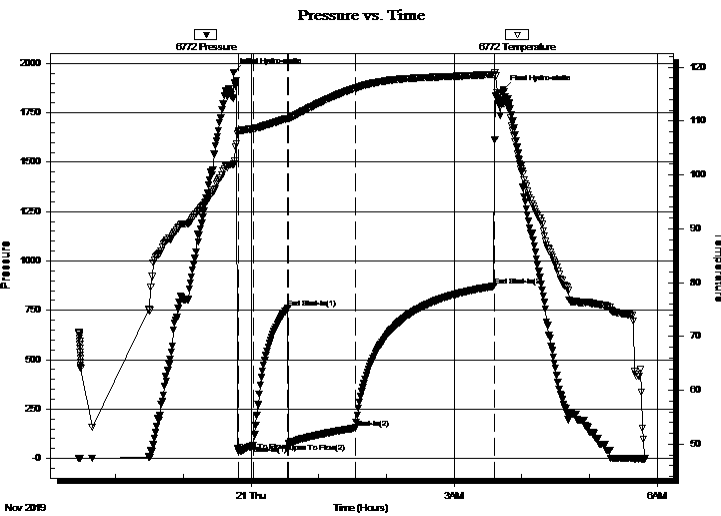
End Time:

05:49:50

Time On Btm: 2019.11.20 @ 23:44:40

Time Off Btm: 2019.11.21 @ 03:43:50

TEST COMMENT: IF-15- BOB 4 mins 30 secs total build of 24 1/2"
 ISI-30- 2 1/2" blow back
 FF-60- BOB 10 mins total build of 40"
 FSI-120- 1" blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1953.95 | 101.98 | Initial Hydro-static |
| 5 | 34.39 | 108.03 | Open To Flow (1) |
| 18 | 66.63 | 108.59 | Shut-In(1) |
| 48 | 761.73 | 110.53 | End Shut-In(1) |
| 49 | 75.84 | 110.45 | Open To Flow (2) |
| 108 | 154.68 | 116.11 | Shut-In(2) |
| 231 | 872.26 | 118.67 | End Shut-In(2) |
| 240 | 1866.43 | 113.19 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 60.00 | GOCM 10%G 30%O 60%M | 0.56 |
| 330.00 | GCO 20%G 80%O | 4.63 |
| 0.00 | GIP 180' | 0.00 |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation

25-13s-20w Ellis, KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65711

DST#: 2

ATTN: Cameron Brin

Test Start: 2019.11.20 @ 21:27:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:48:50

Time Test Ended: 05:49:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 3815.00 ft (KB) To 3823.00 ft (KB) (TVD)

Reference Elevations: 2200.00 ft (KB)

Total Depth: 3823.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6769 Outside

Press@RunDepth: psig @ 3816.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.20

End Date:

2019.11.21

Last Calib.:

2019.11.21

Start Time: 21:27:01

End Time:

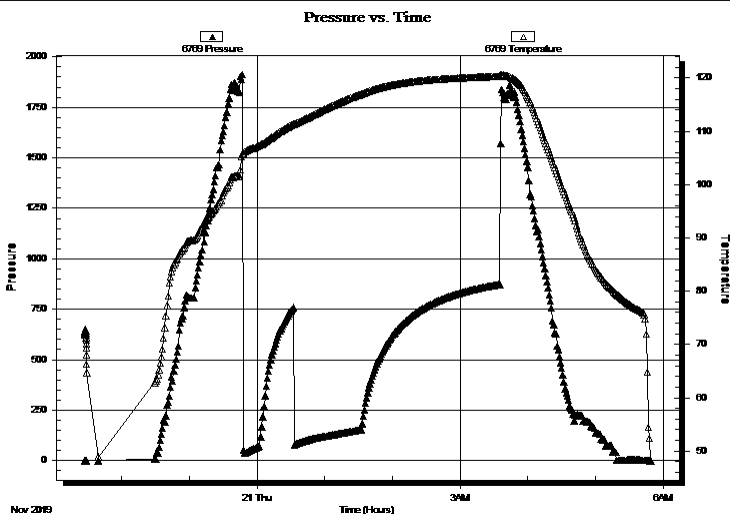
05:49:50

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-15- BOB 4 mins 30 secs total build of 24 1/2"
ISI-30- 2 1/2" blow back
FF-60- BOB 10 mins total build of 40"
FSI-120- 1" blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 60.00 | GOCM 10%G 30%O 60%M | 0.56 |
| 330.00 | GCO 20%G 80%O | 4.63 |
| 0.00 | GIP 180' | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65711

DST#: 2

ATTN: Cameron Brin

Test Start: 2019.11.20 @ 21:27:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3771.00 ft | Diameter: 3.80 inches | Volume: 52.90 bbl | Tool Weight: 2500.00 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: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 53.05 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 7.00 ft | | | String Weight: Initial 51000.00 lb |
| Depth to Top Packer: | 3815.00 ft | | | Final 53000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 8.00 ft | | | |
| Tool Length: | 28.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|------------------------------|
| Change Over Sub | 1.00 | | | 3796.00 | |
| Shut In Tool | 5.00 | | | 3801.00 | |
| Hydraulic tool | 5.00 | | | 3806.00 | |
| Packer | 5.00 | | | 3811.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3815.00 | |
| Stubb | 1.00 | | | 3816.00 | |
| Recorder | 0.00 | 6772 | Inside | 3816.00 | |
| Recorder | 0.00 | 6769 | Outside | 3816.00 | |
| Perforations | 4.00 | | | 3820.00 | |
| Bullnose | 3.00 | | | 3823.00 | 8.00 Bottom Packers & Anchor |
| Total Tool Length: | 28.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65711

DST#: 2

ATTN: Cameron Brin

Test Start: 2019.11.20 @ 21:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 60.00 | GOCM 10%G 30%O 60%M | 0.559 |
| 330.00 | GCO 20%G 80%O | 4.629 |
| 0.00 | GIP 180' | 0.000 |

Total Length: 390.00 ft Total Volume: 5.188 bbl

Num Fluid Samples: 0

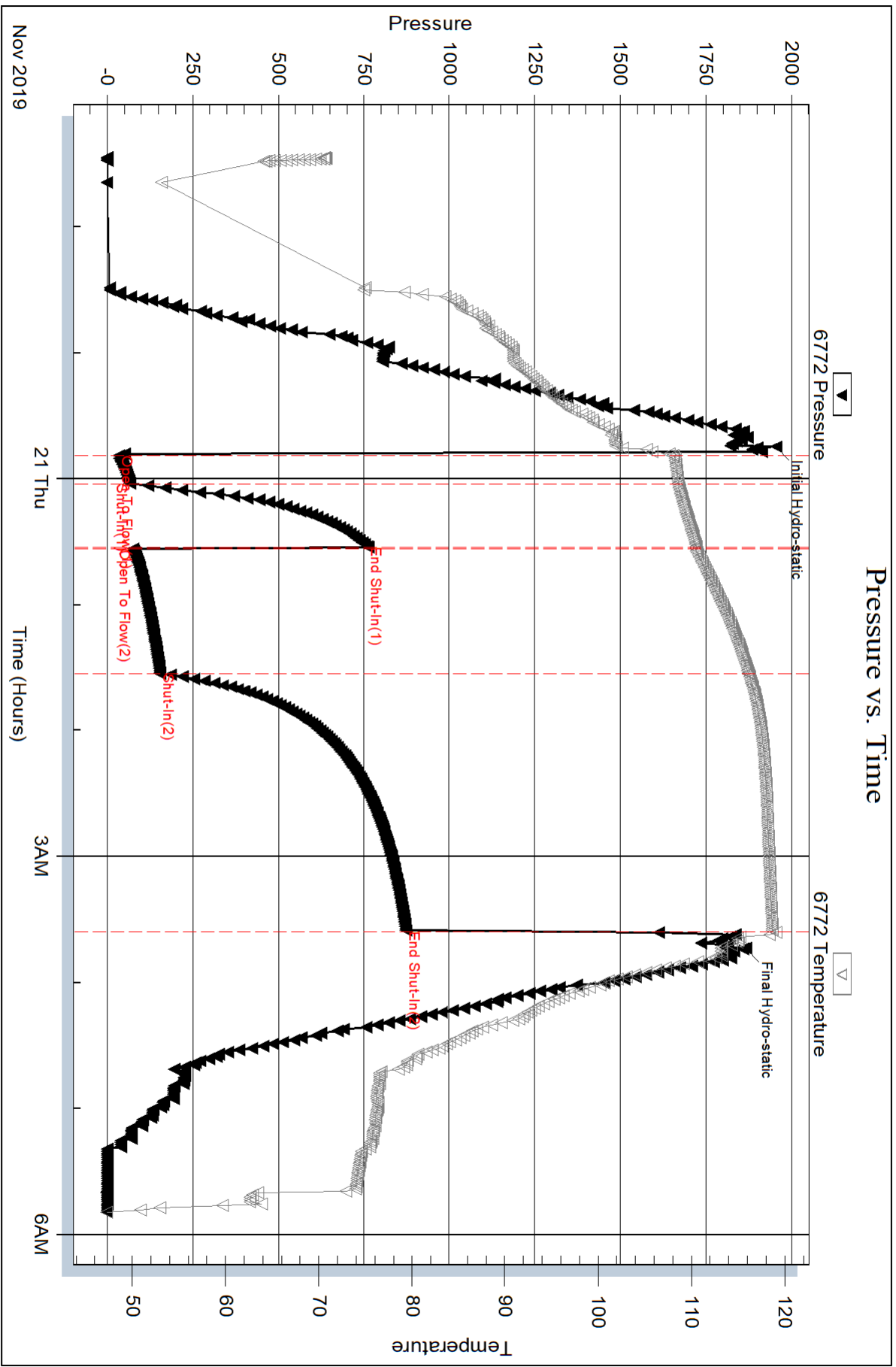
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

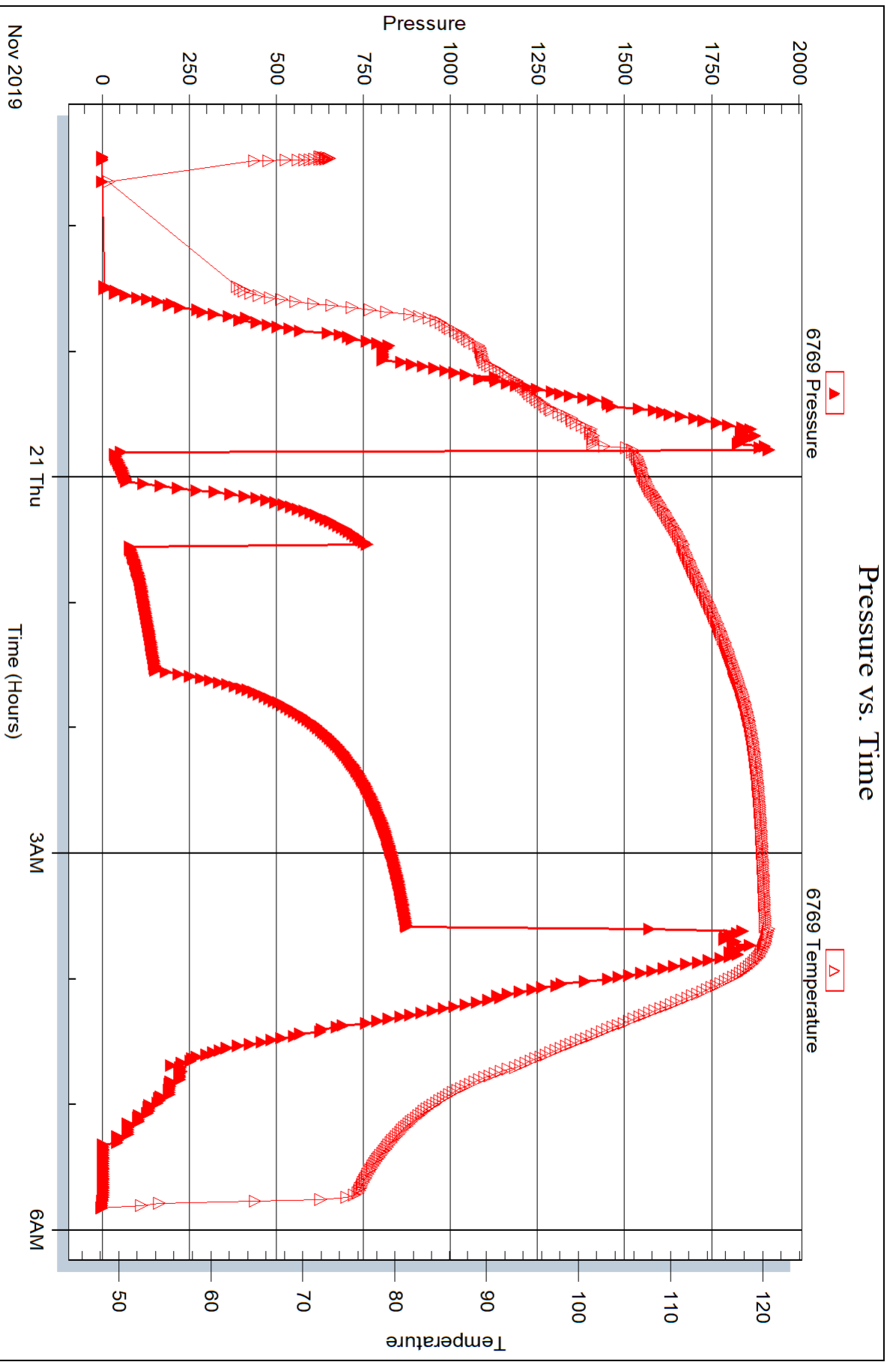


Serial #: 6769

Outside Mustang Energy Corporation

Younger #3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corporation**

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

Younger #3

25-13s-20w Ellis,KS

Start Date: 2019.11.21 @ 11:40:00

End Date: 2019.11.21 @ 18:38:00

Job Ticket #: 65712 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.11.22 @ 09:52:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65712

DST#: 3

ATTN: Cameron Brin

Test Start: 2019.11.21 @ 11:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:45:10

Time Test Ended: 18:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 3825.00 ft (KB) To 3838.00 ft (KB) (TVD)

Reference Elevations: 2200.00 ft (KB)

Total Depth: 3838.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 370.61 psig @ 3826.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.21

End Date:

2019.11.21

Last Calib.: 2019.11.21

Start Time: 11:40:01

End Time:

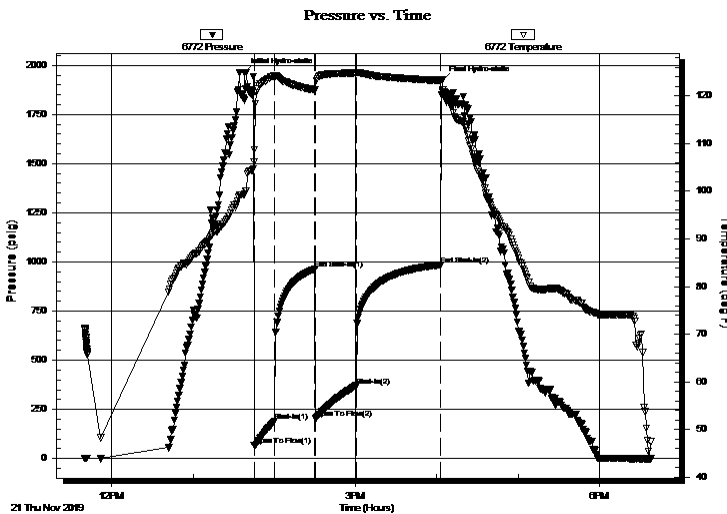
18:38:00

Time On Btm: 2019.11.21 @ 13:38:00

Time Off Btm: 2019.11.21 @ 16:03:50

TEST COMMENT: IF-15- BOB 2 mins 40 secs total build of 42 1/2"
ISI-30- 1/4" blow back
FF-30- BOB 4 mins 40 secs total build of 47 1/2"
FSI-60- 7 1/2" blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1963.65 | 99.42 | Initial Hydro-static |
| 8 | 66.05 | 106.16 | Open To Flow (1) |
| 23 | 190.41 | 124.18 | Shut-In(1) |
| 52 | 963.77 | 121.24 | End Shut-In(1) |
| 53 | 203.63 | 121.20 | Open To Flow (2) |
| 83 | 370.61 | 124.83 | Shut-In(2) |
| 145 | 985.50 | 123.23 | End Shut-In(2) |
| 146 | 1922.97 | 123.30 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 360.00 | W 100%W | 4.77 |
| 180.00 | OSW 2%O 98%W | 2.52 |
| 120.00 | GOCW 20%G 20%O 60%W | 1.68 |
| 200.00 | GCO 20%G 80%O | 2.81 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65712

DST#: 3

ATTN: Cameron Brin

Test Start: 2019.11.21 @ 11:40:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3804.00 ft | Diameter: 3.80 inches | Volume: 53.36 bbl | Tool Weight: 2500.00 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: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 53.51 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 30.00 ft | | | String Weight: Initial 52000.00 lb |
| Depth to Top Packer: | 3825.00 ft | | | Final 57000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 13.00 ft | | | |
| Tool Length: | 33.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |
| Tool Comments: | | | | |

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|---------------------------|--------------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00 | | | 3806.00 | |
| Shut In Tool | 5.00 | | | 3811.00 | |
| Hydraulic tool | 5.00 | | | 3816.00 | |
| Packer | 5.00 | | | 3821.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3825.00 | |
| Stubb | 1.00 | | | 3826.00 | |
| Recorder | 0.00 | 6772 | Inside | 3826.00 | |
| Recorder | 0.00 | 6769 | Outside | 3826.00 | |
| Perforations | 9.00 | | | 3835.00 | |
| Bullnose | 3.00 | | | 3838.00 | 13.00 Bottom Packers & Anchor |
| Total Tool Length: | 33.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corporation

25-13s-20w Ellis,KS

PO Box 1121
Hays KS 67601+1121

Younger #3

Job Ticket: 65712

DST#: 3

ATTN: Cameron Brin

Test Start: 2019.11.21 @ 11:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

21000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------|----------------|
| 360.00 | W 100%W | 4.767 |
| 180.00 | OSW 2%O 98%W | 2.525 |
| 120.00 | GOCW 20%G 20%O 60%W | 1.683 |
| 200.00 | GCO 20%G 80%O | 2.805 |

Total Length: 860.00 ft

Total Volume: 11.780 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

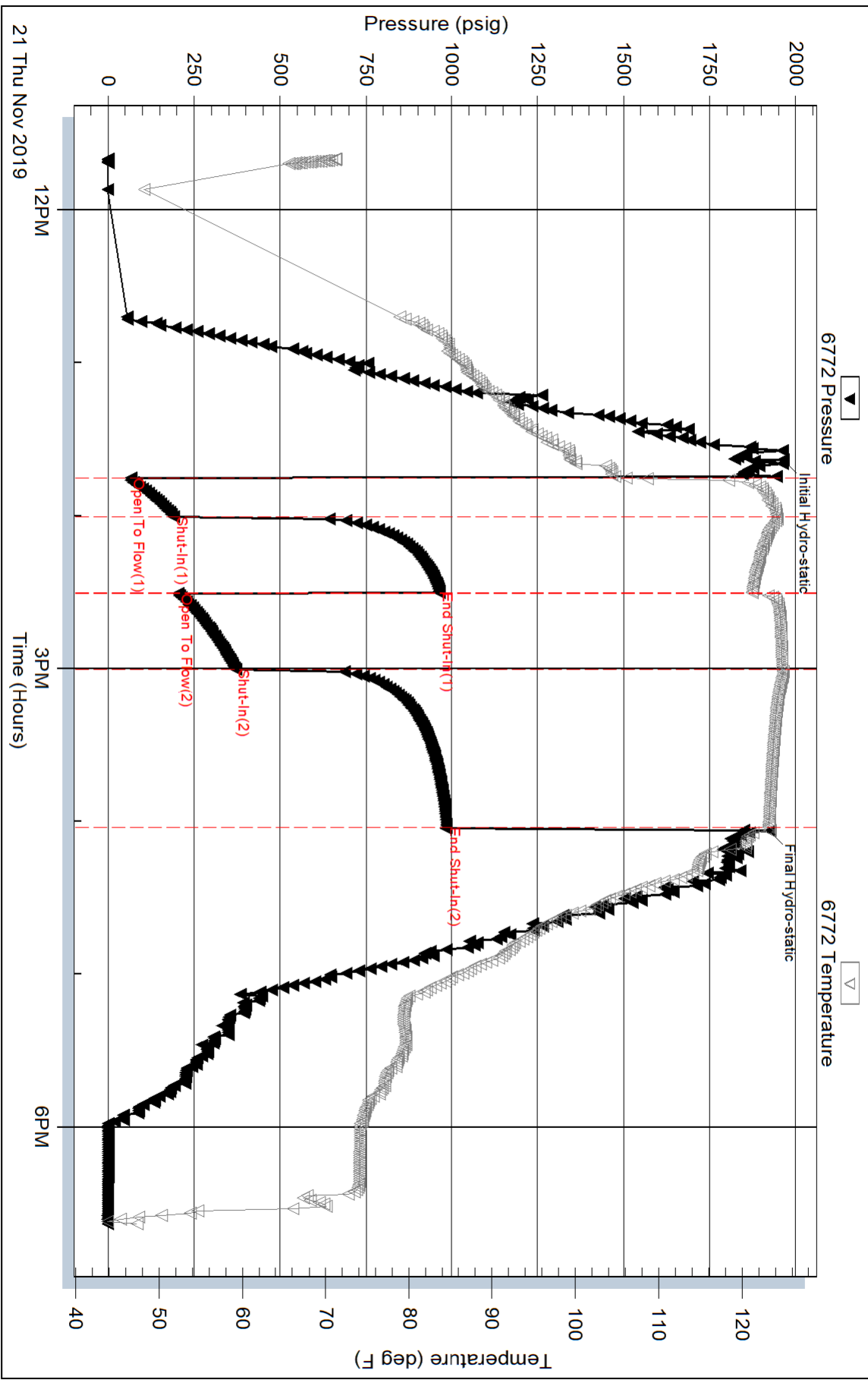
Inside

Mustang Energy Corporation

Younger #3

DST Test Number: 3

Pressure vs. Time

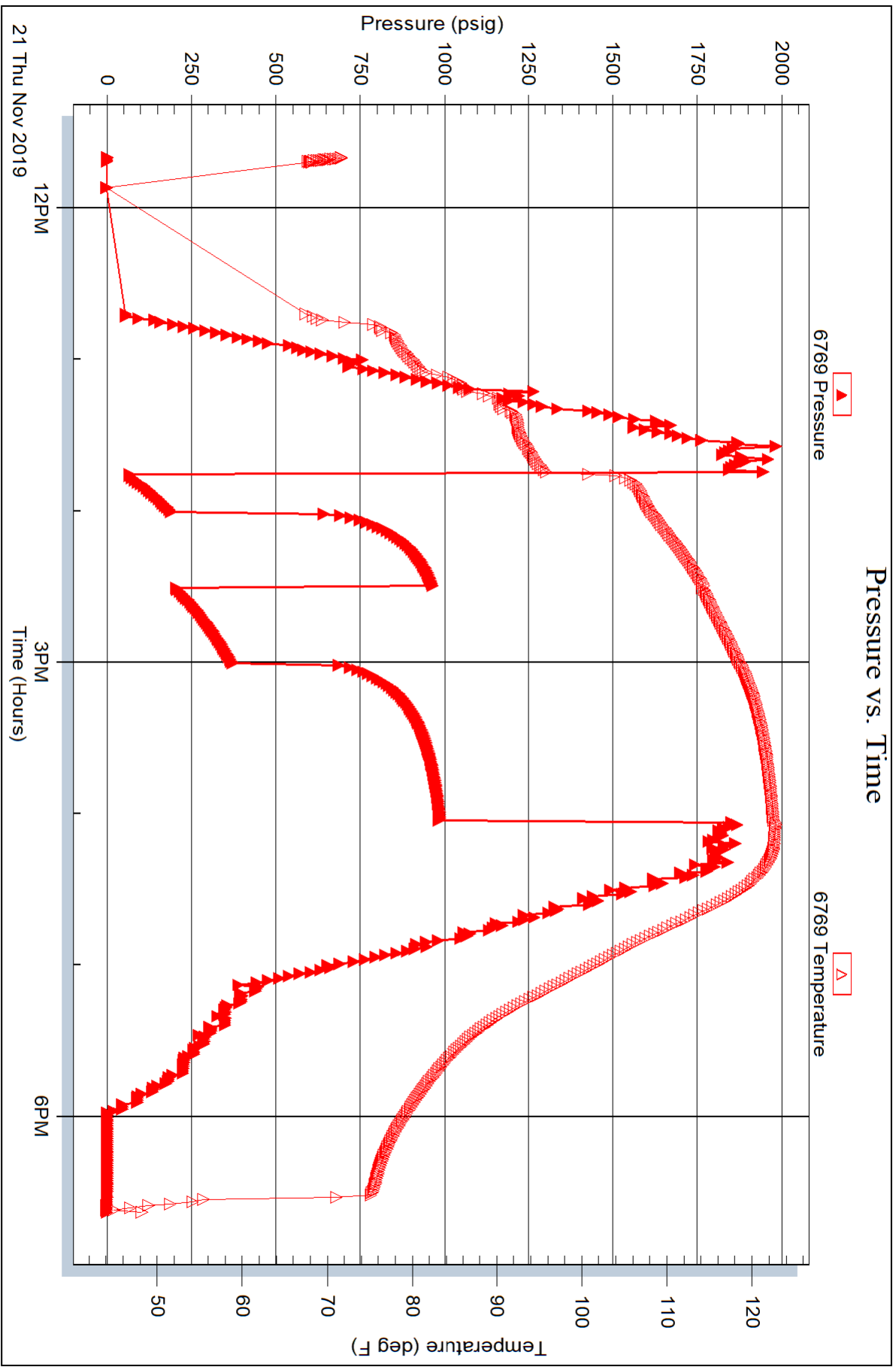


Serial #: 6769

Outside Mustang Energy Corporation

Younger #3

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65710**

Well Name & No. Younger #3 Test No. 1 Date 11/20/2019
 Company Mustang Energy Corporation Elevation 2200 KB 2192 GL
 Address P.O. Box 1121 Hays KS 67601 + 1121
 Co. Rep / Geo. Cameron Brin Rig Disco Rig 4
 Location: Sec. 25 Twp 13S Rge. 20W Co. Ellis State KS

Interval Tested 3774-3815 Zone Tested Arbuckle
 Anchor Length 41' Drill Pipe Run 3739 Mud Wt. 9.2
 Top Packer Depth 3769 Drill Collars Run 31 Vis 47
 Bottom Packer Depth 3774 Wt. Pipe Run --- WL 7.6
 Total Depth 3815 Chlorides 4500 ppm System LCM 2#

Blow Description IF - built to 11 1/2"
IST - no blow back
FF - BOB 18 mins total build of 33 1/2"
FST - weak surface blow back

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-----------------|-----------|-----------|--------|-----------|
| <u>20</u> | <u>G.C.O.</u> | <u>10</u> | <u>90</u> | | |
| <u>60</u> | <u>G.M.C.O.</u> | <u>10</u> | <u>70</u> | | <u>20</u> |
| <u>120</u> | <u>G.M.C.O.</u> | <u>5</u> | <u>55</u> | | <u>40</u> |
| | <u>GIP 40'</u> | | | | |

Rec Total _____ BHT 113 Gravity 39 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1928 Test 1200 T-On Location 9:05 AM
 (B) First Initial Flow 1928 ~~1928~~ 29 Jars _____ T-Started 9:37 AM
 (C) First Final Flow 57 Safety Joint _____ T-Open 11:30
 (D) Initial Shut-In 898 Circ Sub _____ T-Pulled 2:00 P.M.
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 3:57
 (F) Second Final Flow 97 Mileage 24m. RT Comments _____
 (G) Final Shut-In 794 Sampler _____
 (H) Final Hydrostatic 1850 Straddle _____

Initial Open 15 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Sub Total 1224 Accessibility _____
 Total 1224 EM Tool _____
 MP/DST Disc't _____ Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1224

Approved By _____ Our Representative Benny Mulligan

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65711

Well Name & No. Younger #3 Test No. 2 Date 11/20/2019
 Company Mustang Energy Corporation Elevation 2200 KB 2192 GL
 Address PO Box 1121 Hays KS 67601+1121
 Co. Rep / Geo. Cameron Brin Rig Disco Rig 4
 Location: Sec. 25 Twp 13s Rge. 20W Co. Ellis State ks

Interval Tested 3815-3823 Zone Tested Arbuckle
 Anchor Length 8' Drill Pipe Run 3771' Mud Wt. 9.2
 Top Packer Depth 3810 Drill Collars Run 31' Vls 47
 Bottom Packer Depth 3815 Wt. Pipe Run WL 7.6
 Total Depth 3823 Chlorides 4500 ppm System LCM 2#
 Blow Description IF - BOB 4mins 30secs total build of 24 1/2"
ISI - 2 1/2" blow back
FF - BOB 10mins total build of 40"
FST - 1" blow back

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-----------------|-----------|-----------|--------|-----------|
| <u>330</u> | <u>G.C.O.</u> | <u>20</u> | <u>80</u> | | |
| <u>60</u> | <u>G.O.C.M.</u> | <u>10</u> | <u>30</u> | | <u>60</u> |
| | <u>GIP 180'</u> | | | | |
| | | | | | |
| | | | | | |

Rec Total 390' BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1953 Test 1200 T-On Location 9:10 PM
 (B) First Initial Flow 34 Jars _____ T-Started 9:27
 (C) First Final Flow 66 Safety Joint _____ T-Open 11:48
 (D) Initial Shut-In 761 Circ Sub _____ T-Pulled 3:34 AM.
 (E) Second Initial Flow 75 Hourly Standby _____ T-Out ~~5:50~~ 5:50
 (F) Second Final Flow 154 Mileage 2.4 mi RT 24 Comments _____
 (G) Final Shut-In 872 Sampler _____
 (H) Final Hydrostatic 1866 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1224
 Sub Total 1224 MP/DST Disc't _____

Approved By _____

Our Representative Benny Mulligan

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65712**

Well Name & No. Younger #3 Test No. 3 Date 11/21/2019
 Company Mustang Energy Corporation Elevation 2200 KB 2192 GL
 Address PO Box 1121 Hays KS 67601+1121
 Co. Rep / Geo. Cameron Brin Rig Disco Rig 4
 Location: Sec. 25 Twp 13s Rge. 20w Co. Ellis State KS

Interval Tested 3825'-3838' Zone Tested Arbuckle
 Anchor Length 13' Drill Pipe Run 3804' Mud Wt. 9.3
 Top Packer Depth 3820 Drill Collars Run 31' Vis 50
 Bottom Packer Depth 3825 Wt. Pipe Run _____ WL 8
 Total Depth 3838 Chlorides 5500 ppm System LCM 2#

Blow Description IF - BOB 2mm 40secs total build of 42 1/2"
ISI - 1/4" blow back
FE - BOB 4mins 40secs total build of 47 1/2"
FSTI - 7 1/2" blow back

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-----------------|------------|------------|--------------|------------|
| <u>200</u> | <u>G.C.O.</u> | <u>20</u> | <u>80</u> | | |
| <u>120</u> | <u>G.O.C.W.</u> | <u>20</u> | <u>20</u> | <u>60</u> | |
| <u>180</u> | <u>O.S.W.</u> | | <u>2</u> | <u>98</u> | |
| <u>360</u> | <u>W</u> | | | <u>100</u> | |
| Rec _____ | Feet of _____ | %gas _____ | %oil _____ | %water _____ | %mud _____ |

Rec Total 860' BHT 123 Gravity 39 API RW 574 @ 38 °F Chlorides 24000 ppm

(A) Initial Hydrostatic 1963 Test 1200 T-On Location 10:45 AM
 (B) First Initial Flow 66 Jars _____ T-Started 11:40
 (C) First Final Flow 190 Safety Joint _____ T-Open 1:45 PM
 (D) Initial Shut-In 963 Circ Sub _____ T-Pulled 4:00
 (E) Second Initial Flow 203 Hourly Standby _____ T-Out 6:38
 (F) Second Final Flow 370 Mileage 24mi RT 24 Comments _____
 (G) Final Shut-In 985 Sampler _____
 (H) Final Hydrostatic 1922 Straddle _____

Initial Open 15 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 60 Day Standby _____ Extra Copies _____
 Sub Total 0
 Total 1224
 Sub Total 1224 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

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