



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Wes Hansen

Juenemann #1-7

7-5s-30w Decatur,KS

Start Date: 2013.08.20 @ 22:29:00

End Date: 2013.08.21 @ 05:30:45

Job Ticket #: 52665 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.03 @ 09:31:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Wes Hansen

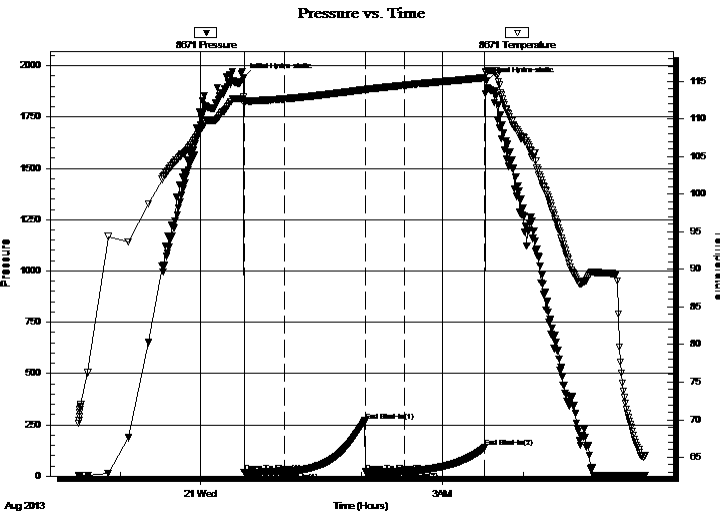
7-5s-30w Decatur, KS
Juenemann #1-7
 Job Ticket: 52665 **DST#: 1**
 Test Start: 2013.08.20 @ 22:29:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:32:15
 Time Test Ended: 05:30:45
 Interval: **3930.00 ft (KB) To 3970.00 ft (KB) (TVD)**
 Total Depth: 3970.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 2929.00 ft (KB)
 2918.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8671 Inside
 Press @ Run Depth: 21.65 psig @ 3931.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.20 End Date: 2013.08.21 Last Calib.: 2013.08.21
 Start Time: 22:29:05 End Time: 05:30:44 Time On Btm: 2013.08.21 @ 00:32:00
 Time Off Btm: 2013.08.21 @ 03:32:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, slowly died back, dead at 17 min.
 60 - IS: No blow back
 30 - FF: No blow
 60 - FS: No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1940.50 | 112.90 | Initial Hydro-static |
| 1 | 19.18 | 112.02 | Open To Flow (1) |
| 31 | 20.26 | 112.67 | Shut-In(1) |
| 91 | 269.76 | 113.89 | End Shut-In(1) |
| 91 | 20.61 | 113.73 | Open To Flow (2) |
| 120 | 21.65 | 114.48 | Shut-In(2) |
| 180 | 139.18 | 115.47 | End Shut-In(2) |
| 181 | 1925.19 | 116.15 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00 | Mud 100% | 0.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52665

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.08.20 @ 22:29:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3695.00 ft | Diameter: 3.80 inches | Volume: 51.83 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: 234.00 ft | Diameter: 2.25 inches | Volume: 1.15 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 52.98 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 27.00 ft | | | String Weight: Initial 64000.00 lb |
| Depth to Top Packer: | 3930.00 ft | | | Final 64000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 40.00 ft | | | |
| Tool Length: | 68.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 3907.00 | |
| Hydraulic tool | 5.00 | | | 3912.00 | |
| Jars | 5.00 | | | 3917.00 | |
| Safety Joint | 3.00 | | | 3920.00 | |
| Packer | 5.00 | | | 3925.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3930.00 | |
| Stubb | 1.00 | | | 3931.00 | |
| Recorder | 0.00 | 8671 | Inside | 3931.00 | |
| Recorder | 0.00 | 8320 | Outside | 3931.00 | |
| Perforations | 36.00 | | | 3967.00 | |
| Bullnose | 3.00 | | | 3970.00 | 40.00 Bottom Packers & Anchor |

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52665

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.08.20 @ 22:29:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 2.00 | Mud 100% | 0.010 |

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

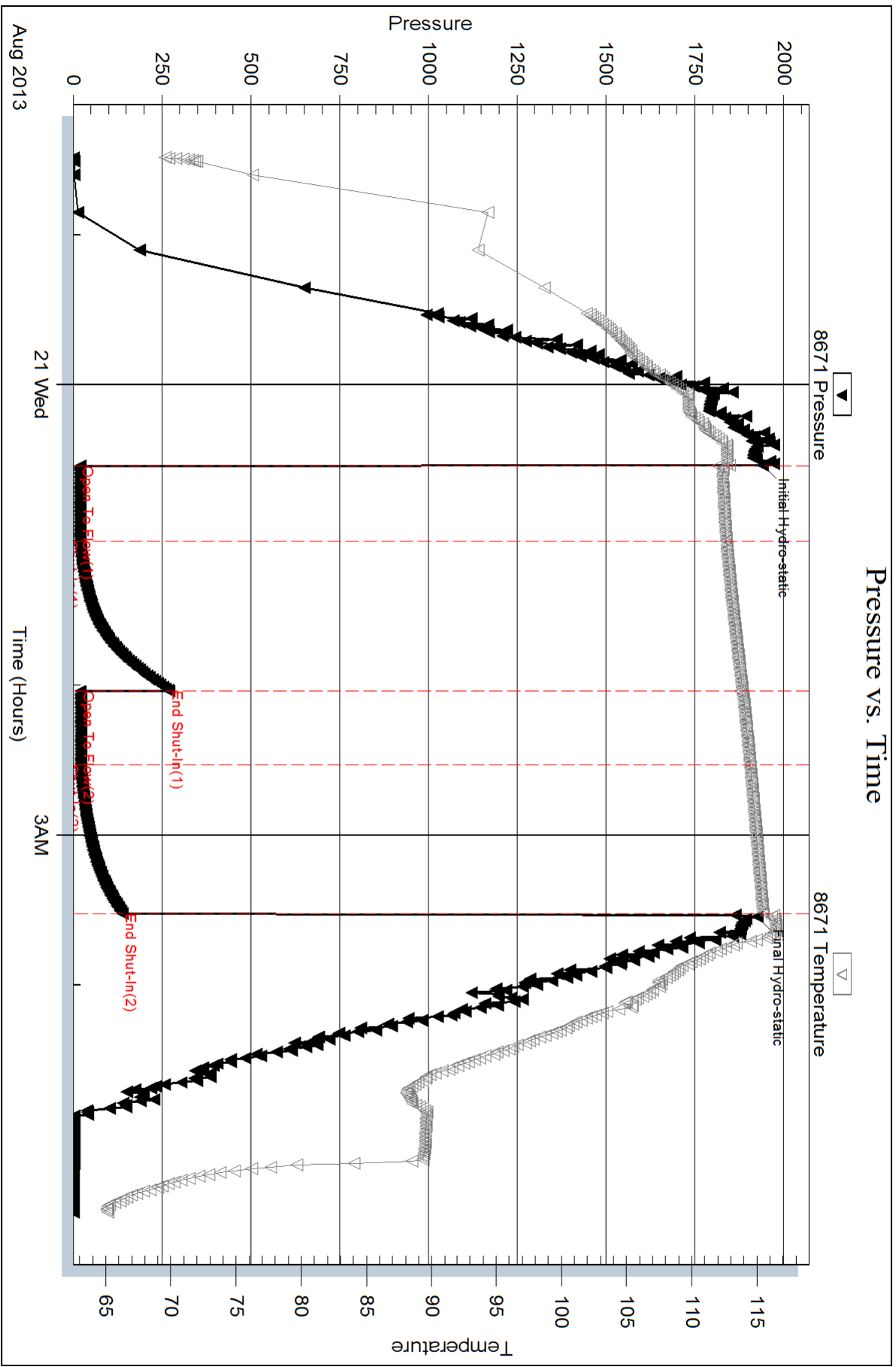
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

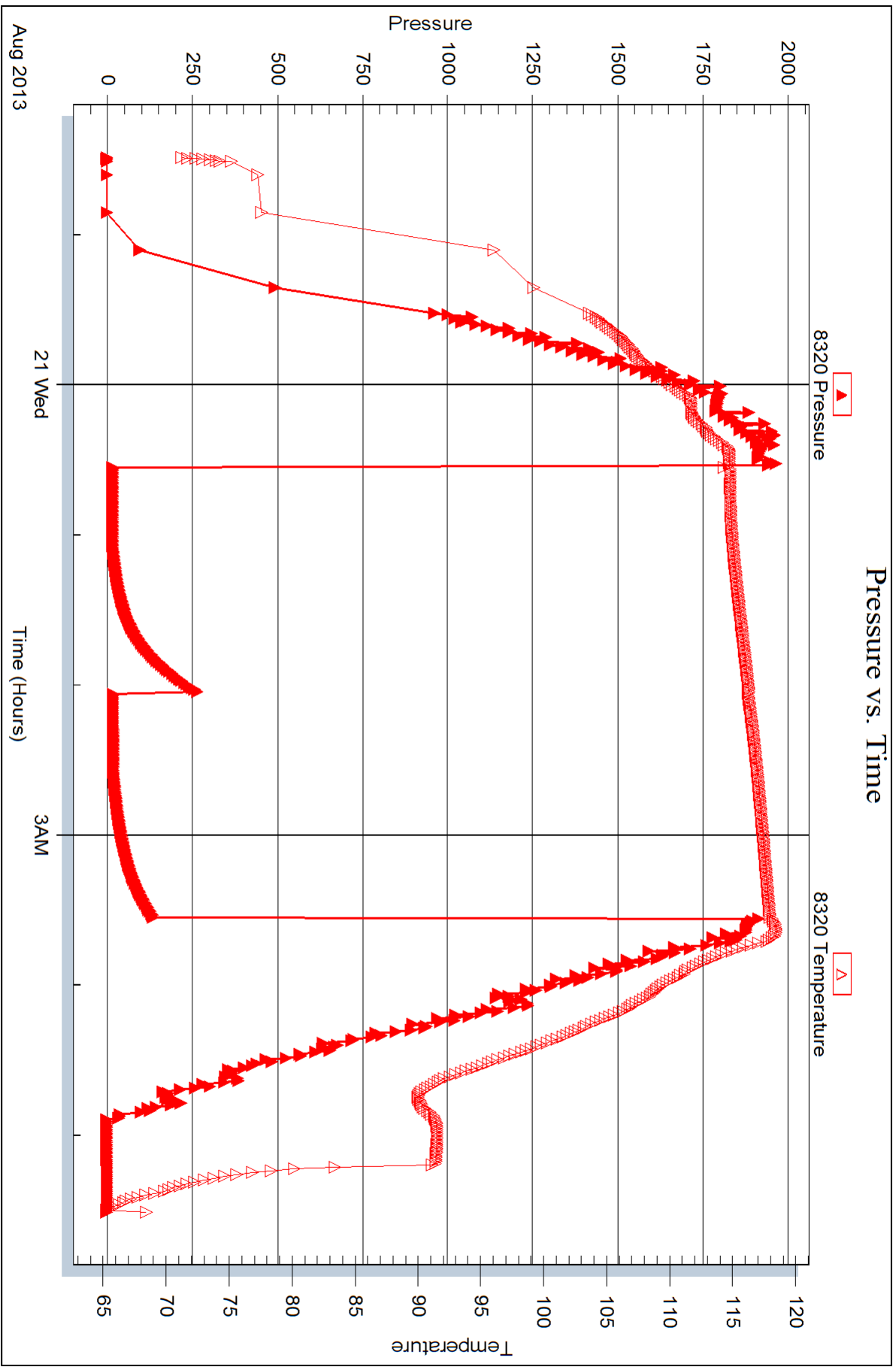


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Juenermann #1-7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 52665

Printed: 2013.09.03 @ 09:31:16



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Wes Hansen

Juenemann #1-7

7-5s-30w Decatur,KS

Start Date: 2013.08.21 @ 14:26:00

End Date: 2013.08.21 @ 22:18:45

Job Ticket #: 52666 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.03 @ 09:27:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Wes Hansen

7-5s-30w Decatur, KS
Juenemann #1-7
Job Ticket: 52666 **DST#: 2**
Test Start: 2013.08.21 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC "A - B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:16:30
Time Test Ended: 22:18:45
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 57
Interval: **3980.00 ft (KB) To 4015.00 ft (KB) (TVD)**
Reference Elevations: 2929.00 ft (KB)
Total Depth: 4015.00 ft (KB) (TVD) 2918.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

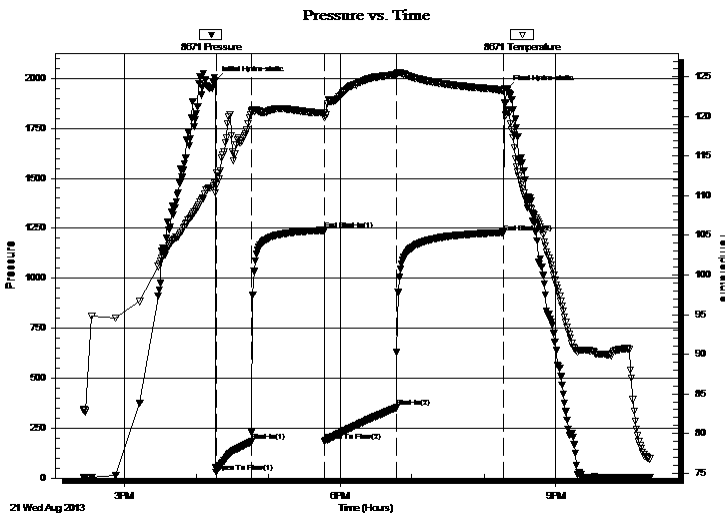
Serial #: 8671

Inside

Press @ Run Depth: 352.74 psig @ 3981.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.21 End Date: 2013.08.21 Last Calib.: 2013.08.21
Start Time: 14:26:05 End Time: 22:18:44 Time On Btm: 2013.08.21 @ 16:16:00
Time Off Btm: 2013.08.21 @ 20:19:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 13 min.
60 - IS: No blow back
60 - FF: Blow built to BOB in 16 min.
90 - FS: Weak blow back, built to 1/4"

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1990.10 | 111.73 | Initial Hydro-static |
| 1 | 29.84 | 111.31 | Open To Flow (1) |
| 30 | 182.36 | 120.61 | Shut-In(1) |
| 91 | 1239.99 | 120.44 | End Shut-In(1) |
| 92 | 184.82 | 119.83 | Open To Flow (2) |
| 151 | 352.74 | 125.24 | Shut-In(2) |
| 241 | 1228.74 | 123.32 | End Shut-In(2) |
| 243 | 1945.59 | 120.59 | Final Hydro-static |

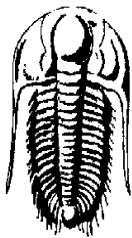
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 498.00 | Water 96%w , 4%m | 4.85 |
| 62.00 | SMCW w /trace oil 88%w , 12%m | 0.87 |
| 170.00 | MCW w /trace oil 62%w , 38%m | 2.38 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52666

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.08.21 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC "A - B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:16:30

Time Test Ended: 22:18:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3980.00 ft (KB) To 4015.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4015.00 ft (KB) (TVD)

2918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **8320**

Outside

Press @ Run Depth: psig @ 3981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.21

End Date:

2013.08.21

Last Calib.:

2013.08.21

Start Time: 14:26:05

End Time:

22:19:29

Time On Btm:

Time Off Btm:

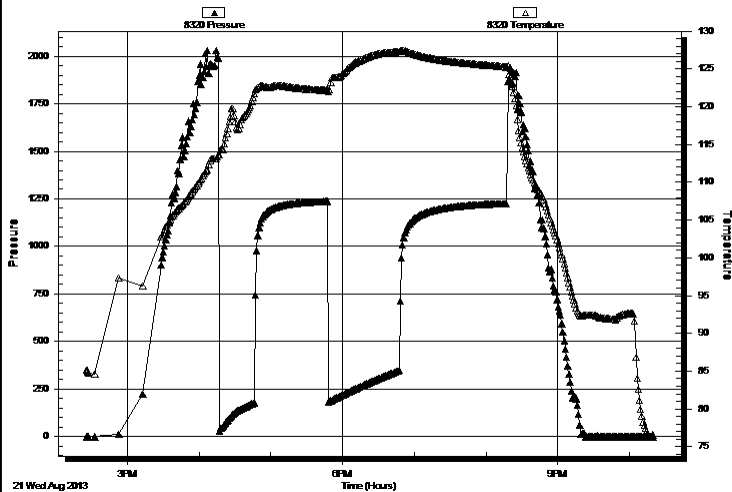
TEST COMMENT: 30 - IF: Blow built to BOB (11") in 13 min.

60 - IS: No blow back

60 - FF: Blow built to BOB in 16 min.

90 - FS: Weak blow back, built to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 498.00 | Water 96%w, 4%m | 4.85 |
| 62.00 | SMCW w/trace oil 88%w, 12%m | 0.87 |
| 170.00 | MCW w/trace oil 62%w, 38%m | 2.38 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52666

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.08.21 @ 14:26:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3726.00 ft | Diameter: 3.80 inches | Volume: 52.27 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: 234.00 ft | Diameter: 2.25 inches | Volume: 1.15 bbl | Weight to Pull Loose: 70000.00 lb |
| | | | <u>Total Volume: 53.42 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 66000.00 lb |
| Depth to Top Packer: | 3980.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 35.00 ft | | | |
| Tool Length: | 63.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 3957.00 | |
| Hydraulic tool | 5.00 | | | 3962.00 | |
| Jars | 5.00 | | | 3967.00 | |
| Safety Joint | 3.00 | | | 3970.00 | |
| Packer | 5.00 | | | 3975.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3980.00 | |
| Stubb | 1.00 | | | 3981.00 | |
| Recorder | 0.00 | 8671 | Inside | 3981.00 | |
| Recorder | 0.00 | 8320 | Outside | 3981.00 | |
| Perforations | 31.00 | | | 4012.00 | |
| Bullnose | 3.00 | | | 4015.00 | 35.00 Bottom Packers & Anchor |

Total Tool Length: 63.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52666

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.08.21 @ 14:26:00

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:

25000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|------------------------------|----------------|
| 498.00 | Water 96%w , 4%m | 4.854 |
| 62.00 | SMCW w/trace oil 88%w , 12%m | 0.870 |
| 170.00 | MCW w/trace oil 62%w , 38%m | 2.385 |

Total Length: 730.00 ft Total Volume: 8.109 bbl

Num Fluid Samples: 0

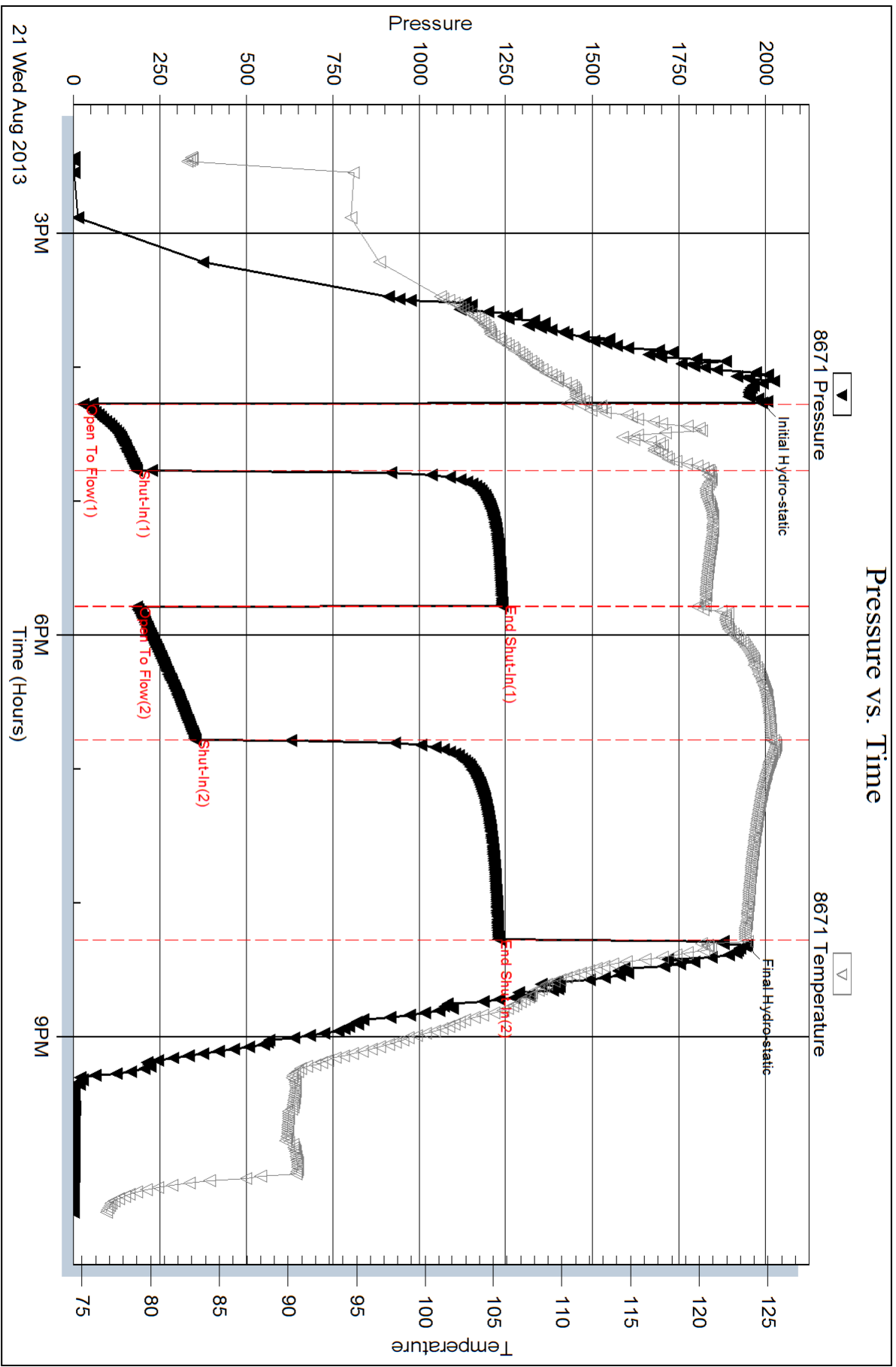
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .248 ohms @ 79 deg F

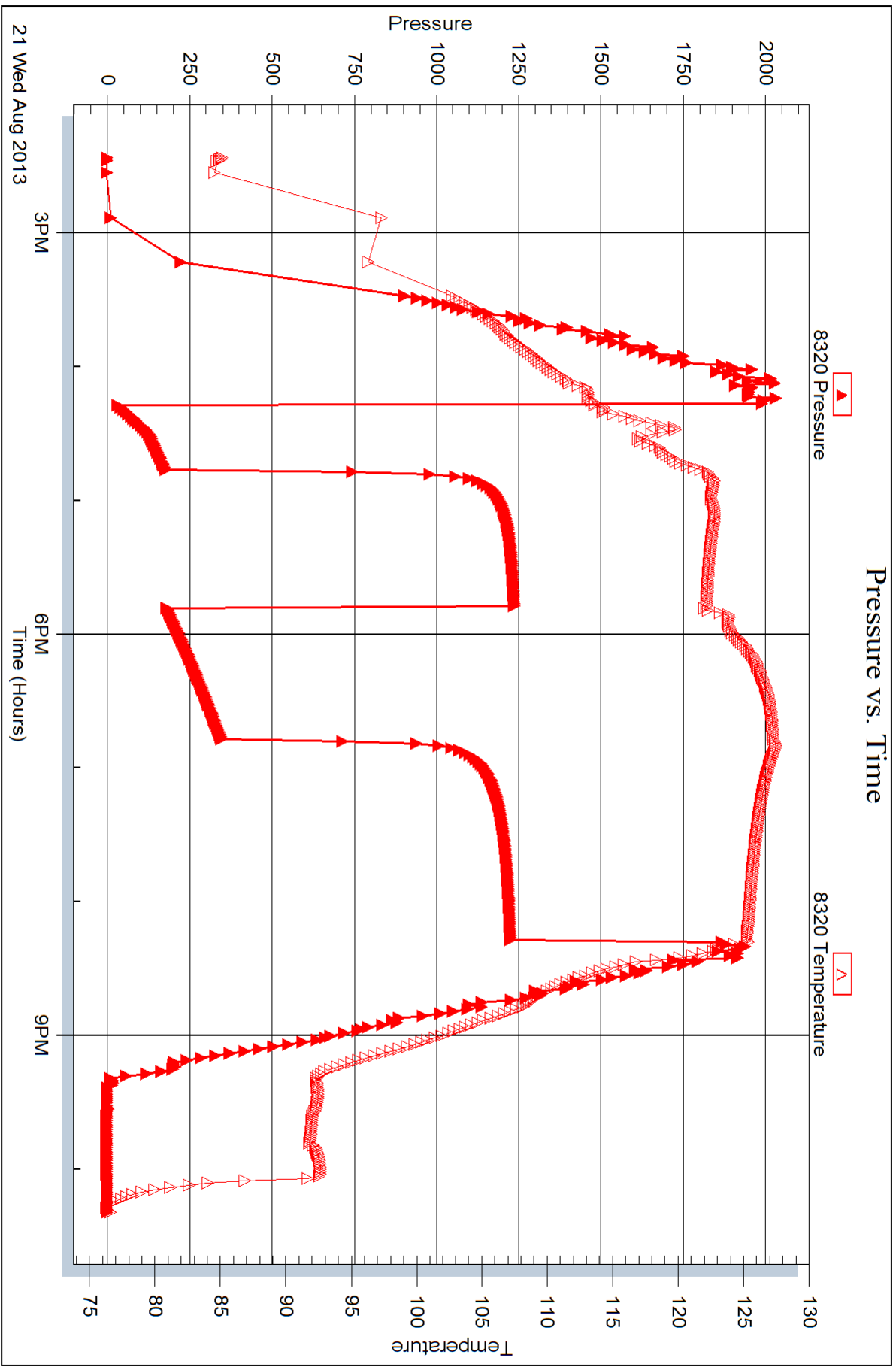


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Juenermann #1-7

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 52666

Printed: 2013.09.03 @ 09:27:13



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Wes Hansen

Juenemann #1-7

7-5s-30w Decatur,KS

Start Date: 2013.08.22 @ 10:00:00

End Date: 2013.08.22 @ 16:49:00

Job Ticket #: 52667 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.03 @ 09:26:18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Wes Hansen

7-5s-30w Decatur, KS
Juenemann #1-7
Job Ticket: 52667 **DST#: 3**
Test Start: 2013.08.22 @ 10:00:00

GENERAL INFORMATION:

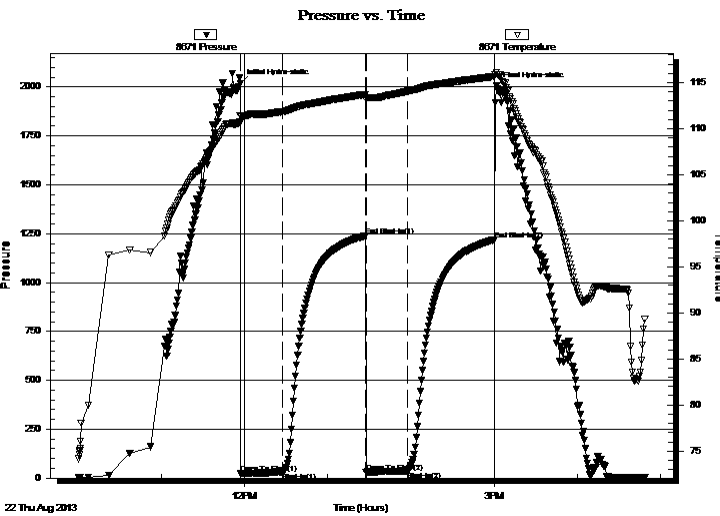
Formation: **LKC "F - G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:57:00
 Tester: James Winder
 Time Test Ended: 16:49:00
 Unit No: 57
Interval: 4028.00 ft (KB) To 4066.00 ft (KB) (TVD)
 Reference Elevations: 2929.00 ft (KB)
 Total Depth: 4066.00 ft (KB) (TVD)
 2918.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press @ Run Depth: 34.76 psig @ 4029.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.22 End Date: 2013.08.22 Last Calib.: 2013.08.22
 Start Time: 10:00:05 End Time: 16:48:59 Time On Btm: 2013.08.22 @ 11:56:45
 Time Off Btm: 2013.08.22 @ 15:01:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2", slowly died back, dead at 25 min.
 60 - IS: No blow back
 30 - FF: No blow
 60 - FS: No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2019.22 | 111.42 | Initial Hydro-static |
| 1 | 24.06 | 110.65 | Open To Flow (1) |
| 31 | 29.53 | 111.84 | Shut-In(1) |
| 91 | 1239.40 | 113.73 | End Shut-In(1) |
| 91 | 30.87 | 113.16 | Open To Flow (2) |
| 121 | 34.76 | 114.07 | Shut-In(2) |
| 184 | 1217.83 | 115.65 | End Shut-In(2) |
| 185 | 2004.51 | 116.11 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 45.00 | Mud 100% | 0.22 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Wes Hansen

7-5s-30w Decatur, KS

Juenemann #1-7

Job Ticket: 52667

DST#: 3

Test Start: 2013.08.22 @ 10:00:00

GENERAL INFORMATION:

Formation: **LKC "F - G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:57:00

Time Test Ended: 16:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: **4028.00 ft (KB) To 4066.00 ft (KB) (TVD)**

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4066.00 ft (KB) (TVD)

2918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8320

Outside

Press @RunDepth: psig @ 4029.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.22

End Date:

2013.08.22

Last Calib.:

2013.08.22

Start Time: 10:00:05

End Time:

16:49:44

Time On Btm:

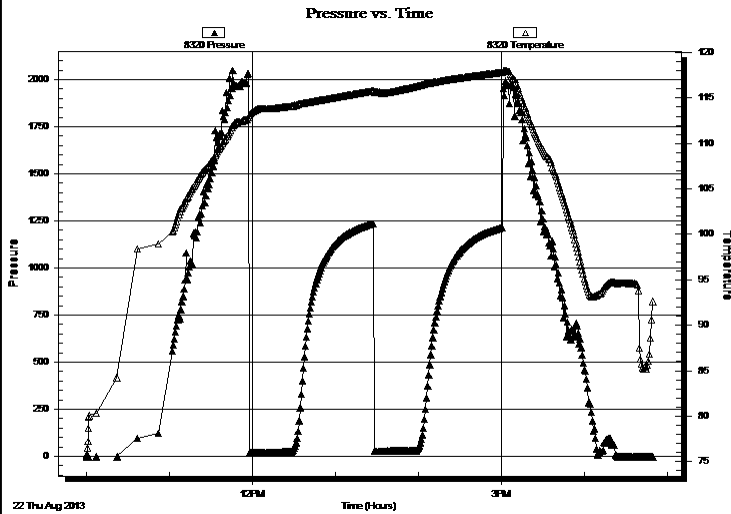
Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2", slowly died back, dead at 25 min.

60 - IS: No blow back

30 - FF: No blow

60 - FS: No blow back



PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 45.00 | Mud 100% | 0.22 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52667

DST#: 3

ATTN: Wes Hansen

Test Start: 2013.08.22 @ 10:00:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3789.00 ft | Diameter: 3.80 inches | Volume: 53.15 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: 234.00 ft | Diameter: 2.25 inches | Volume: 1.15 bbl | Weight to Pull Loose: 72000.00 lb |
| | | | <u>Total Volume: 54.30 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 66000.00 lb |
| Depth to Top Packer: | 4028.00 ft | | | Final 66000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 38.00 ft | | | |
| Tool Length: | 66.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4005.00 | |
| Hydraulic tool | 5.00 | | | 4010.00 | |
| Jars | 5.00 | | | 4015.00 | |
| Safety Joint | 3.00 | | | 4018.00 | |
| Packer | 5.00 | | | 4023.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4028.00 | |
| Stubb | 1.00 | | | 4029.00 | |
| Recorder | 0.00 | 8671 | Inside | 4029.00 | |
| Recorder | 0.00 | 8320 | Outside | 4029.00 | |
| Perforations | 34.00 | | | 4063.00 | |
| Bullnose | 3.00 | | | 4066.00 | 38.00 Bottom Packers & Anchor |

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52667

DST#: 3

ATTN: Wes Hansen

Test Start: 2013.08.22 @ 10:00:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 45.00 | Mud 100% | 0.221 |

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

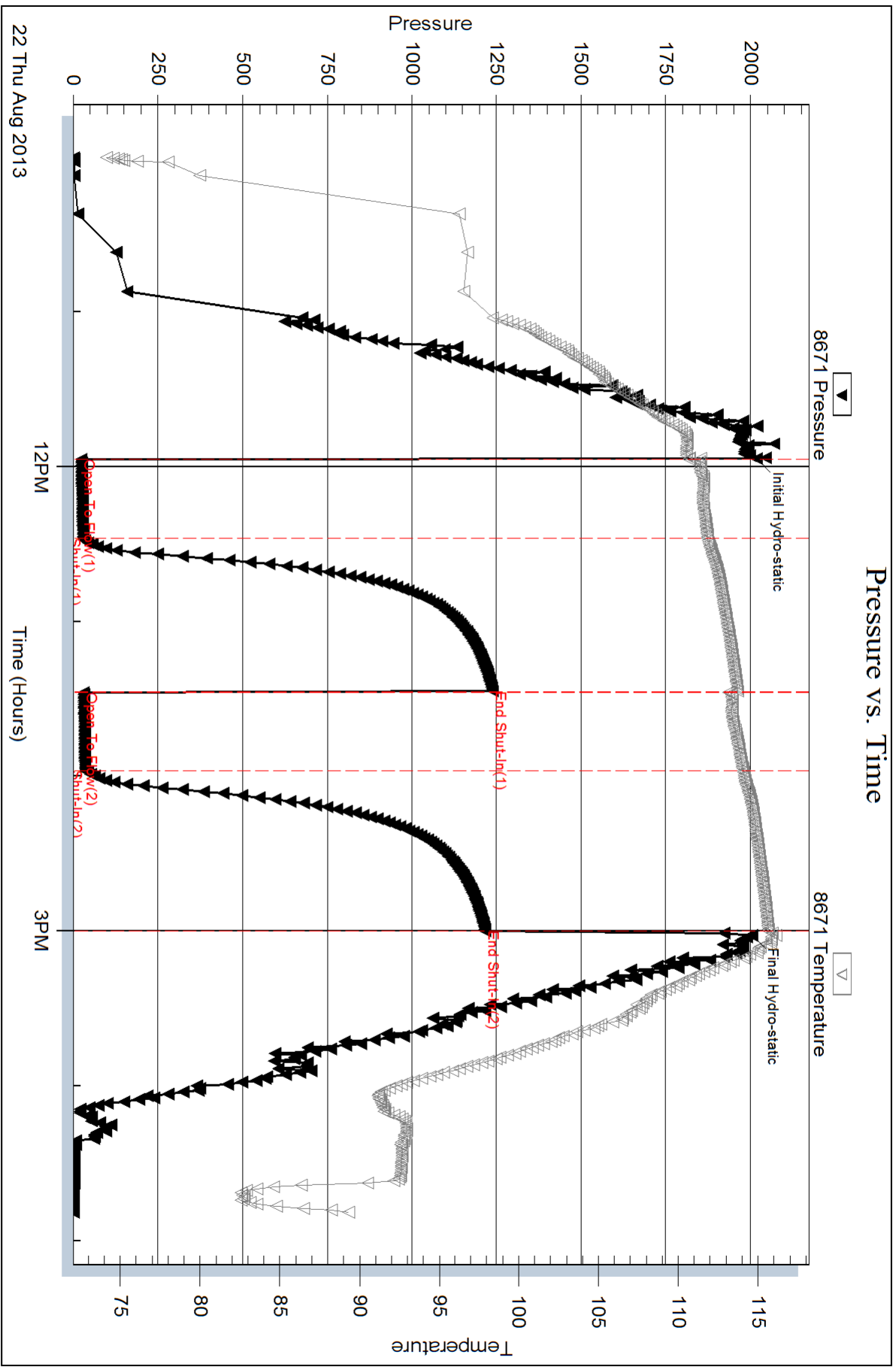
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

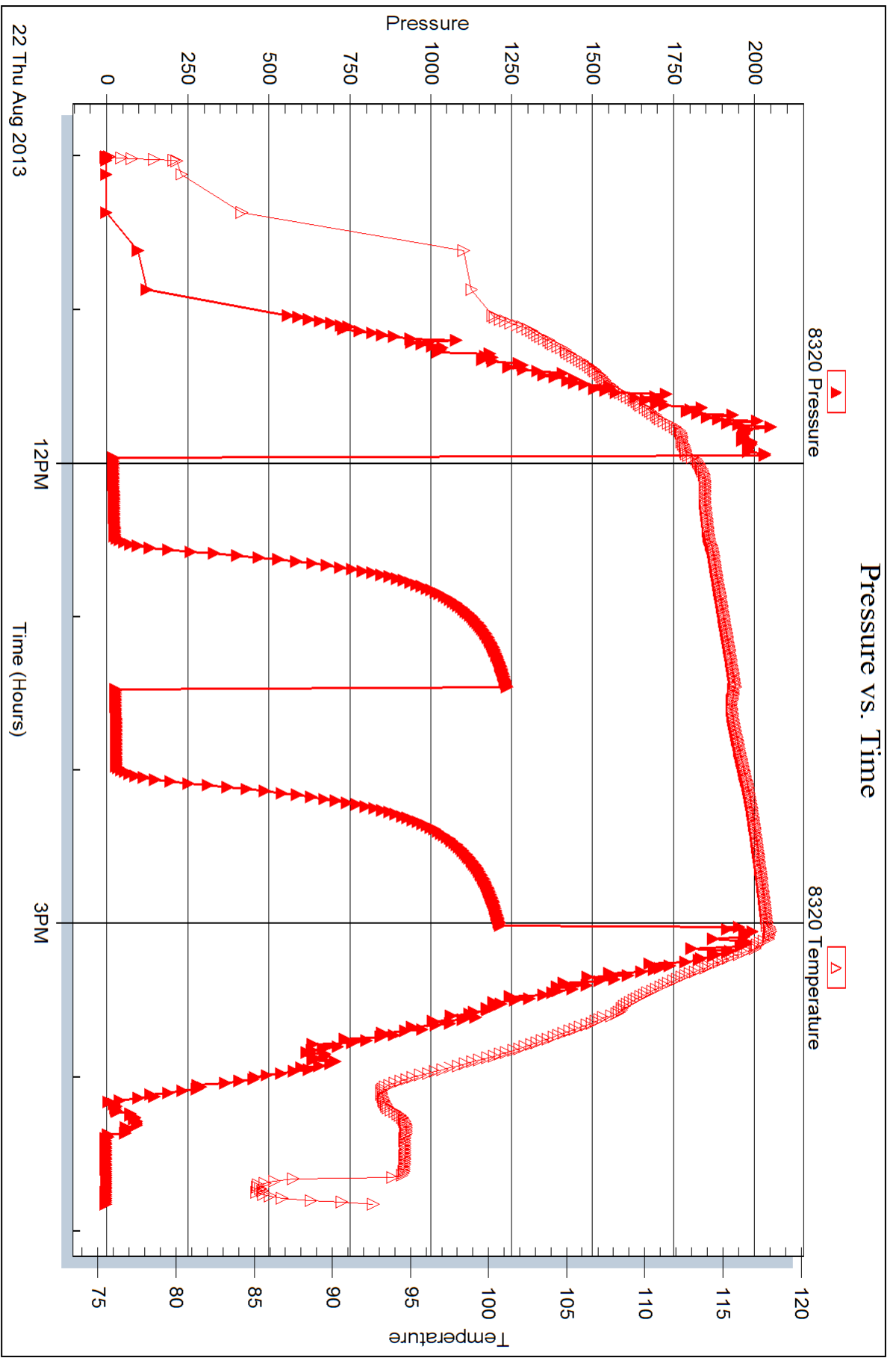


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Juenermann #1-7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52667

Printed: 2013.09.03 @ 09:26:20



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Wes Hansen

Juenemann #1-7

7-5s-30w Decatur,KS

Start Date: 2013.08.23 @ 08:47:00

End Date: 2013.08.23 @ 16:35:30

Job Ticket #: 52668 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.03 @ 09:17:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Wes Hansen

7-5s-30w Decatur, KS
Juenemann #1-7
 Job Ticket: 52668 **DST#: 4**
 Test Start: 2013.08.23 @ 08:47:00

GENERAL INFORMATION:

Formation: **LKC "J - K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:31:30 Tester: James Winder
 Time Test Ended: 16:35:30 Unit No: 57
 Interval: **4098.00 ft (KB) To 4170.00 ft (KB) (TVD)** Reference Elevations: 2929.00 ft (KB)
 Total Depth: 4170.00 ft (KB) (TVD) 2918.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

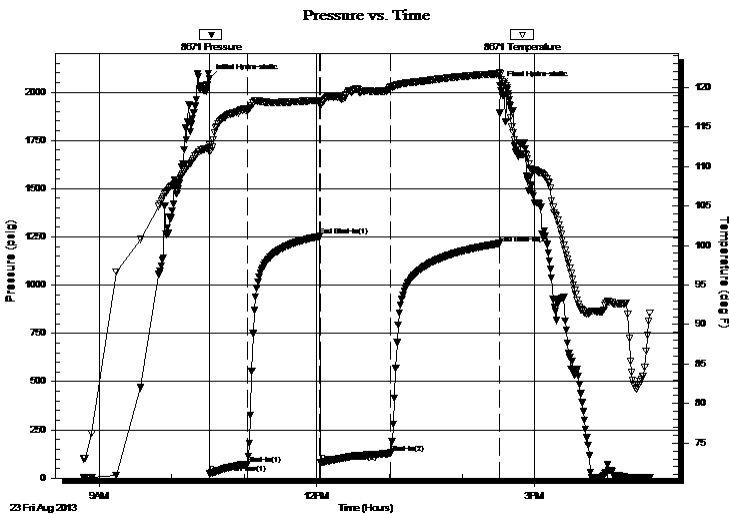
Serial #: 8671

Inside

Press @ Run Depth: 129.91 psig @ 4099.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.23 End Date: 2013.08.23 Last Calib.: 2013.08.23
 Start Time: 08:47:05 End Time: 16:35:29 Time On Btm: 2013.08.23 @ 10:31:15
 Time Off Btm: 2013.08.23 @ 14:31:30

TEST COMMENT: 30 - IF: Blow built to 7"
 60 - IS: No blow back
 60 - FF: Blow built to BOB (11") in 42 min.
 90 - FS: Blow back built to 1"

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2068.87 | 112.70 | Initial Hydro-static |
| 1 | 22.66 | 111.86 | Open To Flow (1) |
| 31 | 73.23 | 116.96 | Shut-In(1) |
| 92 | 1253.02 | 118.34 | End Shut-In(1) |
| 92 | 79.63 | 117.72 | Open To Flow (2) |
| 150 | 129.91 | 120.02 | Shut-In(2) |
| 240 | 1215.71 | 121.71 | End Shut-In(2) |
| 241 | 2033.51 | 121.68 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------|--------------|
| 58.00 | SO/MCW 76%w , 22%m, 2%o | 0.29 |
| 59.00 | SO/WCM 55%w, 31%w , 7%o, 7%g | 0.29 |
| 117.00 | OCM 59%w, 37%o, 4%g | 0.58 |
| 31.00 | CO 90%o, 6%g, 4%m | 0.43 |
| 0.00 | GIP = 95' | 0.00 |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Wes Hansen

7-5s-30w Decatur, KS
Juenemann #1-7
Job Ticket: 52668 **DST#: 4**
Test Start: 2013.08.23 @ 08:47:00

GENERAL INFORMATION:

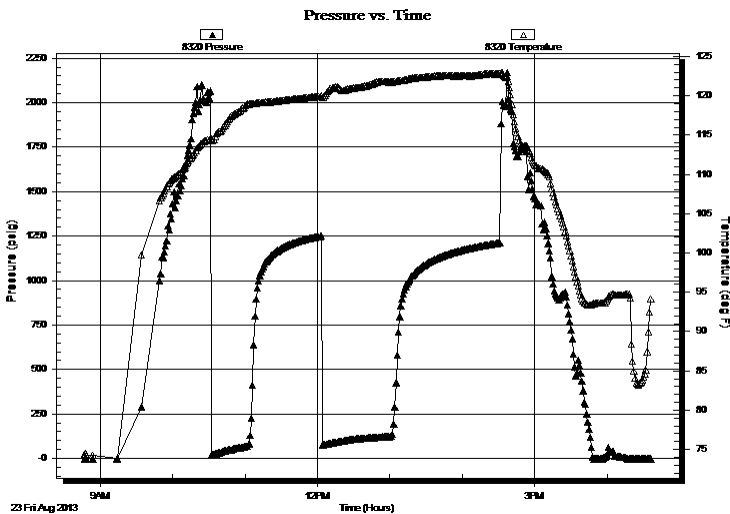
Formation: **LKC "J - K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:31:30
Time Test Ended: 16:35:30
Interval: **4098.00 ft (KB) To 4170.00 ft (KB) (TVD)**
Total Depth: 4170.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 57
Reference Elevations: 2929.00 ft (KB)
2918.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8320

Outside

Press @ Run Depth: psig @ 4099.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.23 End Date: 2013.08.23 Last Calib.: 2013.08.23
Start Time: 08:47:05 End Time: 16:36:29 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 7"
60 - IS: No blow back
60 - FF: Blow built to BOB (11") in 42 min.
90 - FS: Blow back built to 1"



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 58.00 | SO/MCW 76%w, 22%m, 2%o | 0.29 |
| 59.00 | SO/WCM 55%w, 31%w, 7%o, 7%g | 0.29 |
| 117.00 | OCM 59%w, 37%o, 4%g | 0.58 |
| 31.00 | CO 90%o, 6%g, 4%m | 0.43 |
| 0.00 | GIP = 95' | 0.00 |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52668

DST#: 4

ATTN: Wes Hansen

Test Start: 2013.08.23 @ 08:47:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3853.00 ft | Diameter: 3.80 inches | Volume: 54.05 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: 234.00 ft | Diameter: 2.25 inches | Volume: 1.15 bbl | Weight to Pull Loose: 90000.00 lb |
| | | | <u>Total Volume: 55.20 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 17.00 ft | | | String Weight: Initial 67000.00 lb |
| Depth to Top Packer: | 4098.00 ft | | | Final 70000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 72.00 ft | | | |
| Tool Length: | 100.00 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 | | | 4075.00 | |
| Hydraulic tool | 5.00 | | | 4080.00 | |
| Jars | 5.00 | | | 4085.00 | |
| Safety Joint | 3.00 | | | 4088.00 | |
| Packer | 5.00 | | | 4093.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4098.00 | |
| Stubb | 1.00 | | | 4099.00 | |
| Recorder | 0.00 | 8671 | Inside | 4099.00 | |
| Recorder | 0.00 | 8320 | Outside | 4099.00 | |
| Perforations | 34.00 | | | 4133.00 | |
| Blank Spacing | 33.00 | | | 4166.00 | |
| Perforations | 1.00 | | | 4167.00 | |
| Bullnose | 3.00 | | | 4170.00 | 72.00 Bottom Packers & Anchor |

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

7-5s-30w Decatur, KS

250 N. Water Suite 300
Wichita, KS 67202

Juenemann #1-7

Job Ticket: 52668

DST#: 4

ATTN: Wes Hansen

Test Start: 2013.08.23 @ 08:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19500 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------|---------------|
| 58.00 | SO/MCW 76%w, 22%m, 2%o | 0.285 |
| 59.00 | SO/WCM 55%m, 31%w, 7%o, 7%g | 0.290 |
| 117.00 | OCM 59%m, 37%o, 4%g | 0.575 |
| 31.00 | CO 90%o, 6%g, 4%m | 0.435 |
| 0.00 | GIP = 95' | 0.000 |

Total Length: 265.00 ft Total Volume: 1.585 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

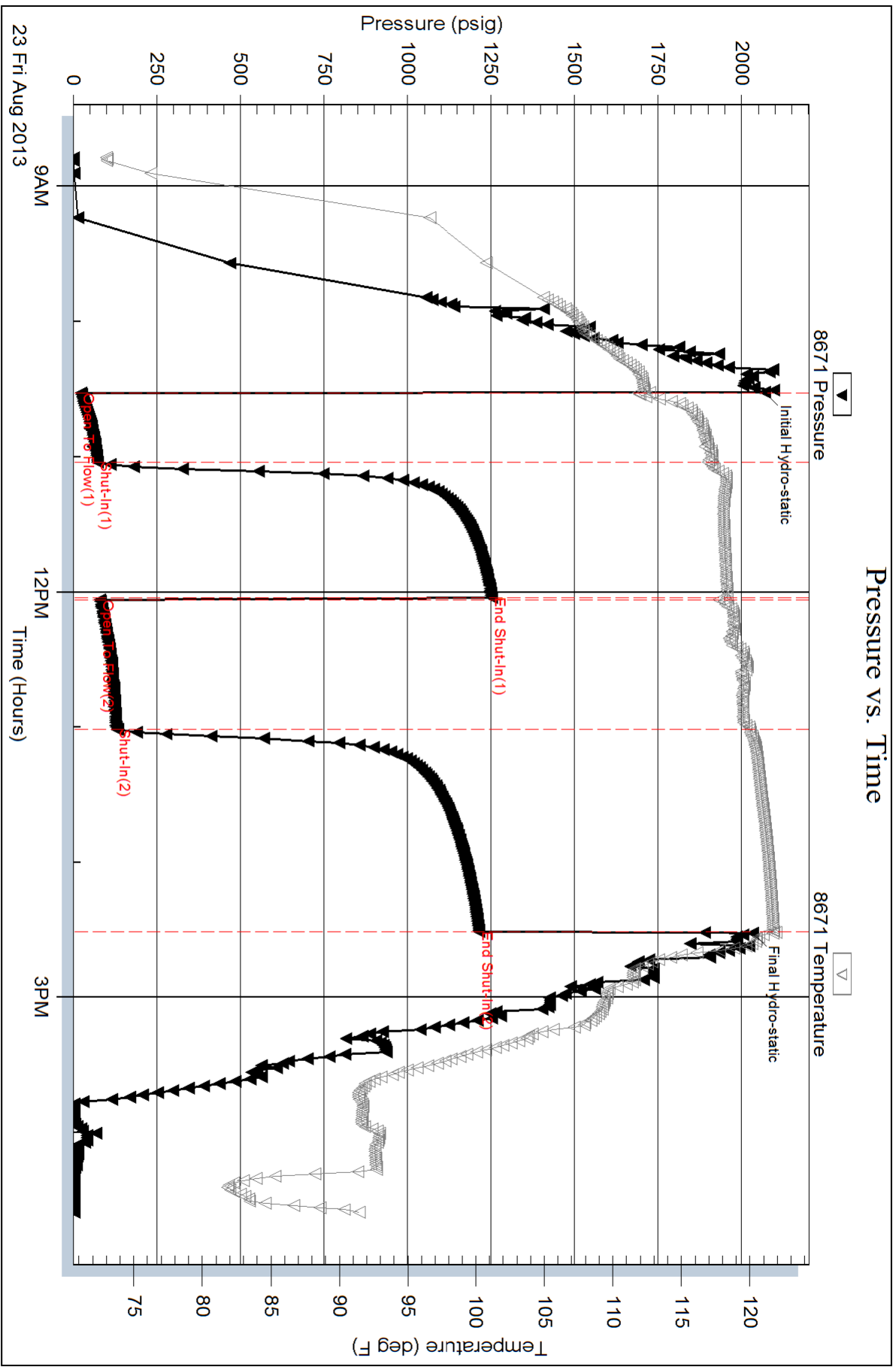
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 40 api @ 102 deg F

RW = .254 ohms @ 95.2 deg F

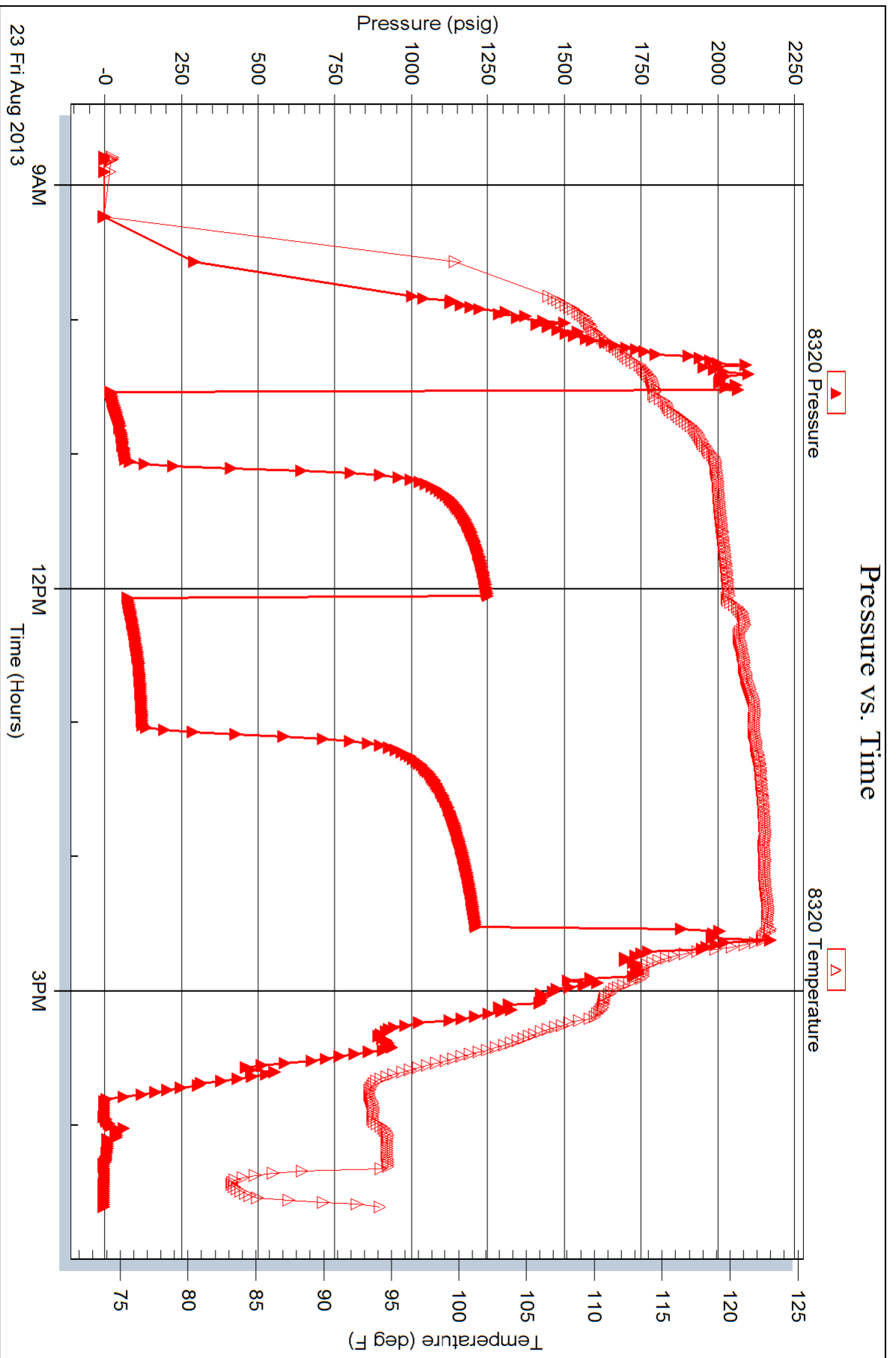


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Juenermann #1-7

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52665

Well Name & No. Juenemann #1-7 Test No. 1 Date 8-20-13
 Company Murfin Drilling Co. Inc. Elevation 2929 KB 2918 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin #2
 Location: Sec. 7 Twp. 5s Rge. 30w Co. Decatur State KS

Interval Tested 3930 - 3970 Zone Tested Toronto
 Anchor Length 40 Drill Pipe Run 3695 Mud Wt. 8.8
 Top Packer Depth 3925 Drill Collars Run 234 Vis 57
 Bottom Packer Depth 3930 Wt. Pipe Run - WL 6.8
 Total Depth 3970 Chlorides 1400 ppm System LCM 4
 Blow Description IF: 1/4" Blow at open, slowly died back, dead at 17 min.
ISI: No blowback
FF: No blow
FSI: No blowback

| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------|------|------|------------|------|
| <u>2</u> | <u>Mud</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 2 BHT 115 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1941 Test * 1150 T-On Location 21:45 8/20
 (B) First Initial Flow 19 Jars * 250 T-Started 22:29
 (C) First Final Flow 20 Safety Joint * 75 T-Open 00:32
 (D) Initial Shut-In 270 Circ Sub * NA T-Pulled 3:31
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 5:30 8/21
 (F) Second Final Flow 22 Mileage 48RT 74.40 Comments _____
 (G) Final Shut-In 139 Sampler _____
 (H) Final Hydrostatic 1925 Straddle _____
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Sub Total 1549.40 Accessibility _____ Total 1549.40
 MP/DST Disc't _____

Approved By Wesley Hansen Our Representative James Winder

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. 52666

Well Name & No. Juenemann #1-7 Test No. 2 Date 8-21-13
 Company Murfin Drilling Co. Inc. Elevation 2929 KB 2918 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin #2
 Location: Sec. 7 Twp. 5S Rge. 30W Co. Decatur State KS

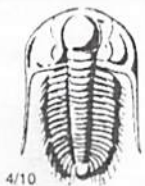
Interval Tested 3980 - 4015 Zone Tested LKE "A-B"
 Anchor Length 35 Drill Pipe Run 3726 Mud Wt. 9.0
 Top Packer Depth 3975 Drill Collars Run 234 Vis 57
 Bottom Packer Depth 3980 Wt. Pipe Run - WL 6.8
 Total Depth 4015 Chlorides 1400 ppm System LCM 5

Blow Description IF: Blow built to BOB (11") in 13 min.
ISI: No blowback
FF: Blow built to BOB in 16 min.
FST: weak blowback built to 1/4"

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|--------------|--------------|-----------|-----------|---------|
| <u>170</u> | <u>MCW</u> | <u>trace</u> | <u>62</u> | <u>38</u> | <u></u> |
| <u>62</u> | <u>SMCW</u> | <u>trace</u> | <u>88</u> | <u>12</u> | <u></u> |
| <u>498</u> | <u>Water</u> | <u></u> | <u>96</u> | <u>4</u> | <u></u> |
| | | | | | |
| | | | | | |

Rec Total 730 BHT 123 Gravity - API RW .248 @ 79 °F Chlorides 25000 ppm
 (A) Initial Hydrostatic 1990 Test * 1250 T-On Location 14:05
 (B) First Initial Flow 30 Jars * 250 T-Started 14:26
 (C) First Final Flow 182 Safety Joint * 75 T-Open 16:16
 (D) Initial Shut-In 1240 Circ Sub *NA T-Pulled 20:16
 (E) Second Initial Flow 185 Hourly Standby T-Out 22:15
 (F) Second Final Flow 353 Mileage 48RT 74.40 Comments
 (G) Final Shut-In 1229 Sampler
 (H) Final Hydrostatic 1946 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 60 Day Standby Total 1649.40
 Final Flow 60 Accessibility MP/DST Disc't
 Final Shut-In 90 Sub Total 1649.40

Approved By Wesley Hansen Our Representative James Winder
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52667

Well Name & No. Juenemann Test No. 3 Date 8-22-13
 Company Murfin Drilling Co. Inc Elevation 2929 KB 2918 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin #2
 Location: Sec. 7 Twp. 55 Rge. 30W Co. Decatur State KS

Interval Tested 4028 - 4066 Zone Tested LKC "F-G"
 Anchor Length 38 Drill Pipe Run 3789 Mud Wt. 9.0
 Top Packer Depth 4023 Drill Collars Run 234 Vis 57
 Bottom Packer Depth 4028 Wt. Pipe Run - WL 6.8
 Total Depth 4066 Chlorides 1400 ppm System LCM 5

Blow Description IF: 1/4" Blow at open, built to 1/2", slowly died back, dead at 25 min.
ISI: No blowback
FF: No blow
FSI: No blowback

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|------|------|------------|------|
| <u>45</u> | <u>Mud</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 45 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2019 Test * 1250 T-On Location 9:45
 (B) First Initial Flow 24 Jars * 250 T-Started 10:00
 (C) First Final Flow 30 Safety Joint * 75 T-Open 11:57
 (D) Initial Shut-In 1239 Circ Sub *NA T-Pulled 15:00
 (E) Second Initial Flow 31 Hourly Standby T-Out 16:45
 (F) Second Final Flow 35 Mileage 48RT 74.40 Comments _____
 (G) Final Shut-In 1218 Sampler _____
 (H) Final Hydrostatic 2005 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1649.40
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1649.40

Approved By Wesley Hansen Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52668

Well Name & No. Juenemann #1-7 Test No. 4 Date 8-23-13
 Company Murfin Drilling Co. Inc Elevation 2929 KB 2918 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin #2
 Location: Sec. 7 Twp. 5s Rge. 30w Co. Decatur State KS

Interval Tested 4098 - 4170 Zone Tested LKC "J-K"
 Anchor Length 72 Drill Pipe Run 3853 Mud Wt. 9.2
 Top Packer Depth 4093 Drill Collars Run 234 Vis 60
 Bottom Packer Depth 4098 Wt. Pipe Run - WL 6.4
 Total Depth 4170 Chlorides 1700 ppm System LCM 4

Blow Description IF: Blow built to 7 1/2"
ISI: No blowback
FF: Blow built to BOB (11") in 42 min.
FSI: Blowback built to 1"

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|------------------|-------------|-------------|-------------|-------------|
| <u>31</u> | <u>CO</u> | <u>6</u> | <u>90</u> | <u>-</u> | <u>4</u> |
| <u>117</u> | <u>OCM</u> | <u>4</u> | <u>37</u> | <u>-</u> | <u>59</u> |
| <u>59</u> | <u>SO/WCM</u> | <u>7</u> | <u>7</u> | <u>31</u> | <u>55</u> |
| <u>58</u> | <u>SO/mcw</u> | <u>-</u> | <u>2</u> | <u>76</u> | <u>22</u> |
| <u> </u> | <u>GIP = 95'</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

Rec Total 265 BHT 122 Gravity 35.8 API RW 254 @ 95.2 °F Chlorides 19,500 ppm

| | | |
|-------------------------------------|---|---|
| (A) Initial Hydrostatic <u>2069</u> | <input type="checkbox"/> Test <u>*</u> 1250 | T-On Location <u>8:00</u> |
| (B) First Initial Flow <u>23</u> | <input type="checkbox"/> Jars <u>*</u> 250 | T-Started <u>8:47</u> |
| (C) First Final Flow <u>73</u> | <input type="checkbox"/> Safety Joint <u>*</u> 75 | T-Open <u>10:31</u> |
| (D) Initial Shut-In <u>1253</u> | <input checked="" type="checkbox"/> Circ Sub <u>*NA</u> | T-Pulled <u>14:30</u> |
| (E) Second Initial Flow <u>79</u> | <input checked="" type="checkbox"/> Hourly Standby | T-Out <u>16:30</u> |
| (F) Second Final Flow <u>130</u> | <input type="checkbox"/> Mileage <u>48RT x 2</u> 148.80 | Comments |
| (G) Final Shut-In <u>1216</u> | <input checked="" type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>2034</u> | <input checked="" type="checkbox"/> Straddle | <input checked="" type="checkbox"/> Ruined Shale Packer |

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Extra Packer
 Extra Recorder
 Day Standby Tools loaded 17:15 ? Total 1723.80
 Accessibility 8/24 MP/DST Disc't

Sub Total 1723.80

Approved By Wesley Hansen Our Representative James Winder

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