



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Keith Reavis

Makings #1-18

18-4s-33w Rawlings,KS

Start Date: 2014.10.26 @ 19:08:00

End Date: 2014.10.27 @ 03:32:09

Job Ticket #: 57748 DST #: 1

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

Printed: 2014.10.31 @ 10:04:55

Murfin Drilling Co. Inc

18-4s-33w Rawlings,KS

Makings #1-18

DST # 1

Toronto / LKC " A

2014.10.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS

Makings #1-18

Job Ticket: 57748

DST#: 1

Test Start: 2014.10.26 @ 19:08:00

GENERAL INFORMATION:

Formation: **Toronto / LKC " A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:55

Time Test Ended: 03:32:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 71

Interval: 3986.00 ft (KB) To 4040.00 ft (KB) (TVD)

Reference Elevations: 3103.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

3098.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8674

Inside

Press@RunDepth: 20.83 psig @ 3987.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.26

End Date:

2014.10.27

Last Calib.: 2014.10.27

Start Time: 19:08:00

End Time:

03:32:09

Time On Btm: 2014.10.26 @ 21:44:40

Time Off Btm: 2014.10.27 @ 00:49:39

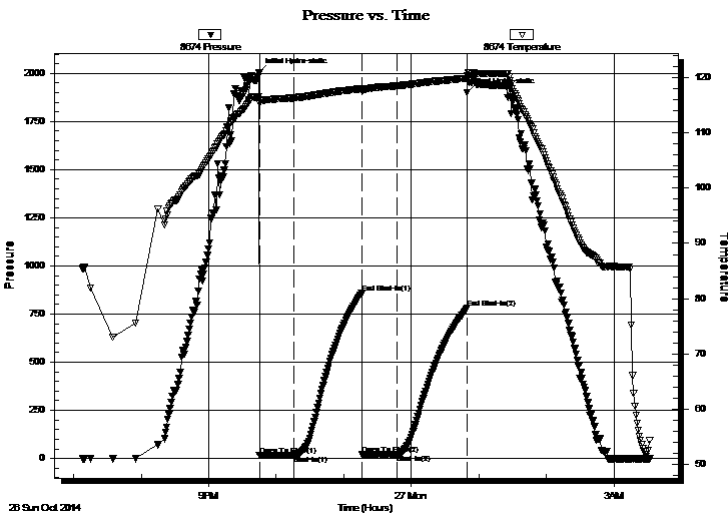
TEST COMMENT: IF- Weak Surface Blow 1/4"

IS- No Blow

FF- No Blow

FS- No Blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2004.80 | 116.59 | Initial Hydro-static |
| 1 | 16.66 | 115.42 | Open To Flow (1) |
| 31 | 18.51 | 116.35 | Shut-In(1) |
| 92 | 859.00 | 118.03 | End Shut-In(1) |
| 92 | 19.92 | 117.64 | Open To Flow (2) |
| 123 | 20.83 | 118.52 | Shut-In(2) |
| 185 | 779.61 | 119.89 | End Shut-In(2) |
| 185 | 1899.83 | 120.41 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | 100% mud | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 57748 **DST#: 1**
Test Start: 2014.10.26 @ 19:08:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3806.00 ft | Diameter: 3.80 inches | Volume: 53.39 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 30000.00 lb |
| Drill Collar: | Length: 177.00 ft | Diameter: 2.25 inches | Volume: 0.87 bbl | Weight to Pull Loose: | 16000.00 lb |
| | | | <u>Total Volume: 54.26 bbl</u> | Tool Chased | ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial | 58000.00 lb |
| Depth to Top Packer: | 3986.00 ft | | | Final | 58000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 54.00 ft | | | | |
| Tool Length: | 81.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3960.00 | |
| Shut In Tool | 5.00 | | | 3965.00 | |
| Hydraulic tool | 5.00 | | | 3970.00 | |
| Jars | 5.00 | | | 3975.00 | |
| Safety Joint | 2.00 | | | 3977.00 | |
| Packer | 5.00 | | | 3982.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3986.00 | |
| Stubb | 1.00 | | | 3987.00 | |
| Recorder | 0.00 | 8355 | Outside | 3987.00 | |
| Recorder | 0.00 | 8674 | Inside | 3987.00 | |
| Perforations | 14.00 | | | 4001.00 | |
| Change Over Sub | 1.00 | | | 4002.00 | |
| Drill Pipe | 32.00 | | | 4034.00 | |
| Change Over Sub | 1.00 | | | 4035.00 | |
| Bullnose | 5.00 | | | 4040.00 | 54.00 Bottom Packers & Anchor |

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 57748 **DST#: 1**
Test Start: 2014.10.26 @ 19:08:00

Mud and Cushion Information

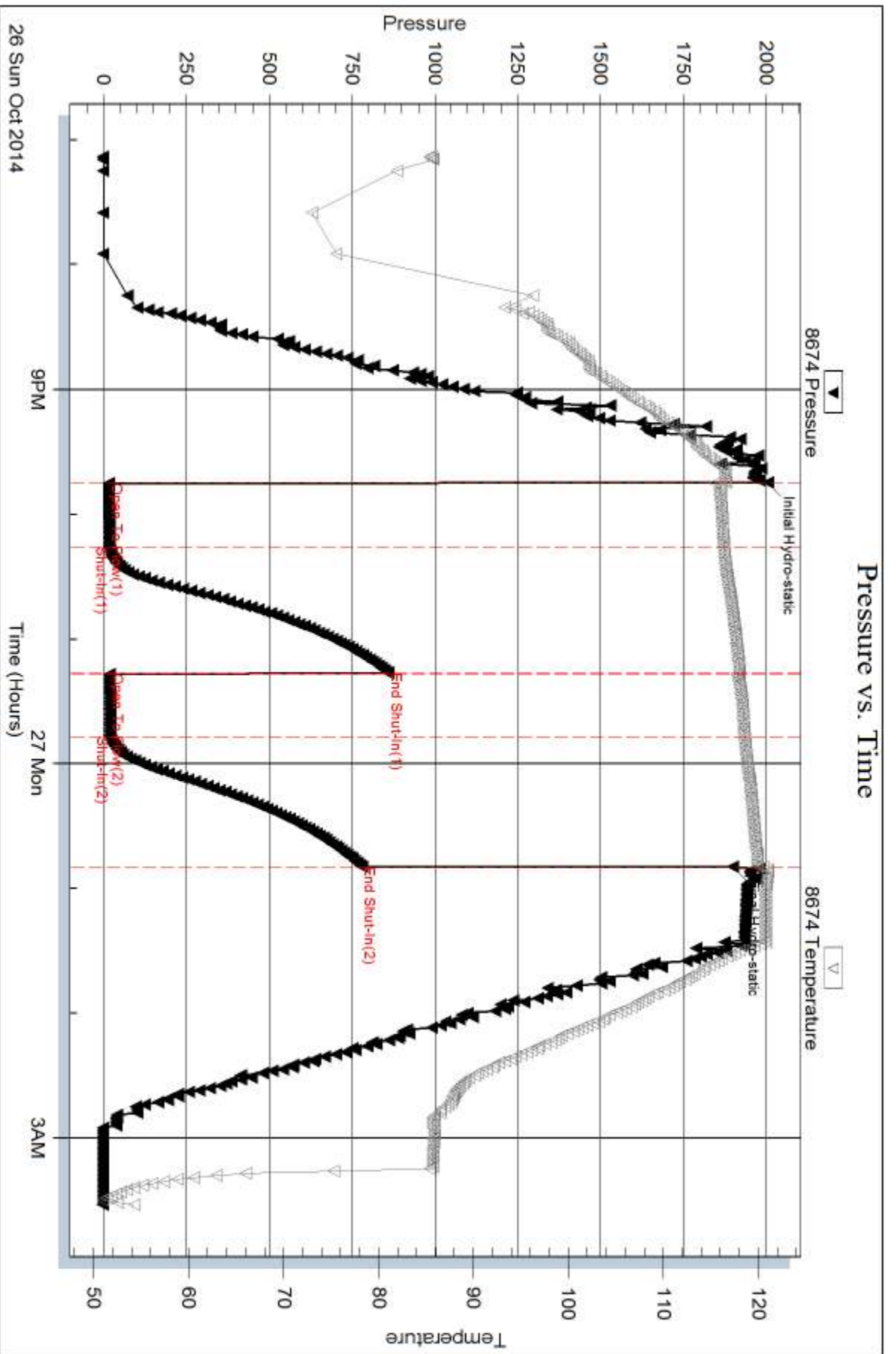
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.14 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1000.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | 100% mud | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

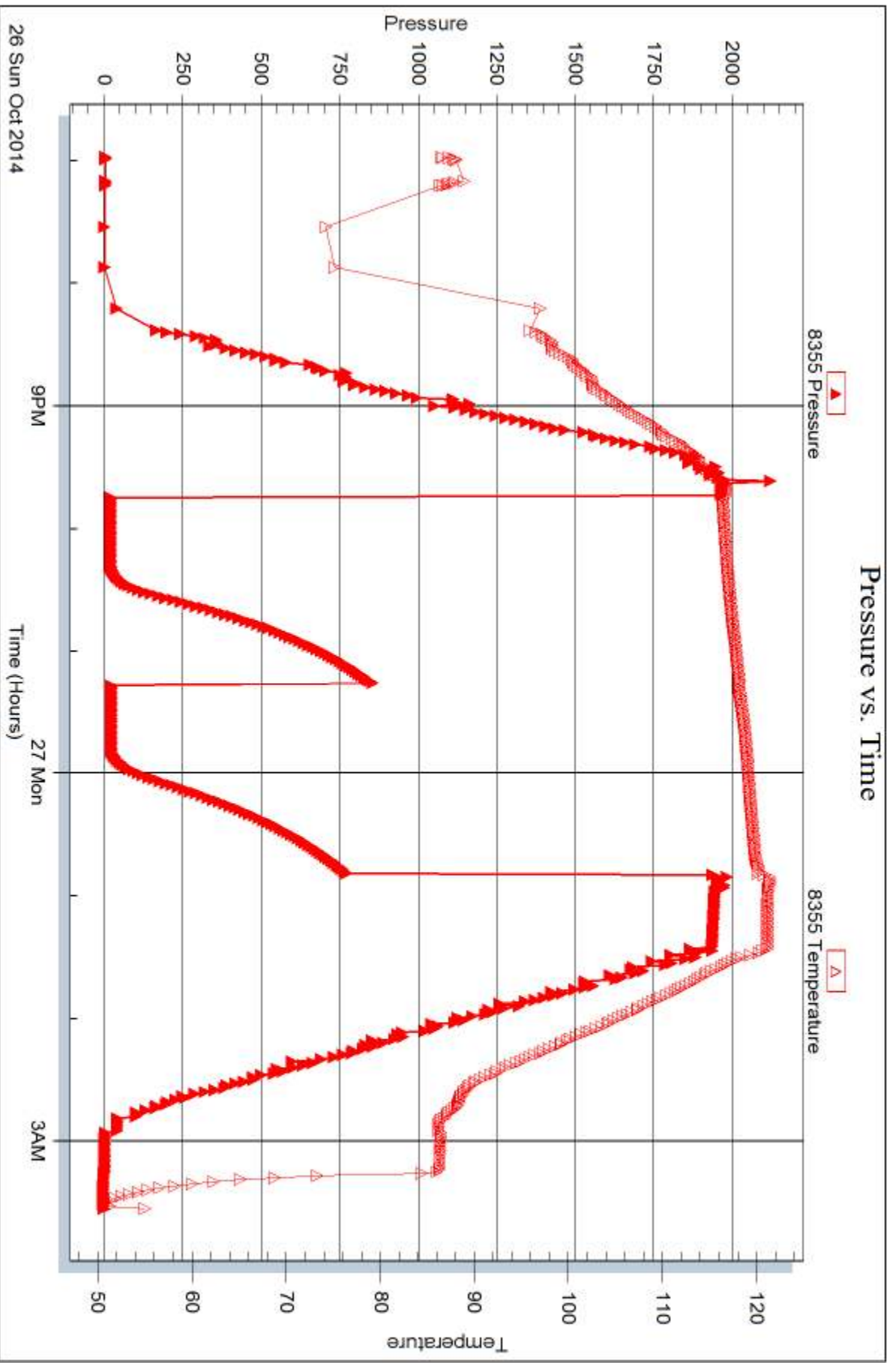


Serial #: 8355

Outside Murfin Drilling Co. Inc

Makings #1-18

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57748

Printed: 2014, 10, 31 @ 10:04:56



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Keith Reavis

Makings #1-18

18-4s-33w Rawlings,KS

Start Date: 2014.10.27 @ 13:06:00

End Date: 2014.10.27 @ 20:21:54

Job Ticket #: 57749 DST #: 2

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

Printed: 2014.10.31 @ 10:04:34

Murfin Drilling Co. Inc

18-4s-33w Rawlings,KS

Makings #1-18

DST # 2

LKC " B - D "

2014.10.27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
 250 N. Water Ste 300
 Wichita KS 67202
 ATTN: Keith Reavis

18-4s-33w Rawlings,KS

Makings #1-18

Job Ticket: 57749 **DST#: 2**
 Test Start: 2014.10.27 @ 13:06:00

GENERAL INFORMATION:

Formation: **LKC "B - D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:22:40
 Time Test Ended: 20:21:54
 Interval: **4042.00 ft (KB) To 4080.00 ft (KB) (TVD)**
 Total Depth: 4080.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 71
 Reference Elevations: 3103.00 ft (KB)
 3098.00 ft (CF)
 KB to GR/CF: 5.00 ft

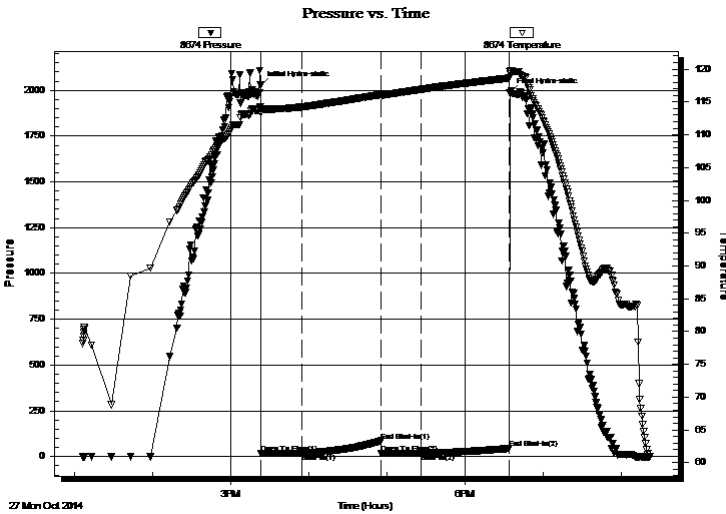
Serial #: 8674

Inside

Press@RunDepth: 19.64 psig @ 4046.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.27 End Date: 2014.10.27 Last Calib.: 2014.10.27
 Start Time: 13:06:00 End Time: 20:21:54 Time On Btm: 2014.10.27 @ 15:22:25
 Time Off Btm: 2014.10.27 @ 18:33:54

TEST COMMENT: IF- Weak Surface Blow
 IS- No Blow
 FF- No Blow
 FS- No Blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2027.78 | 114.34 | Initial Hydro-static |
| 1 | 18.39 | 113.31 | Open To Flow (1) |
| 33 | 19.44 | 114.25 | Shut-In(1) |
| 93 | 86.39 | 116.09 | End Shut-In(1) |
| 93 | 18.55 | 116.05 | Open To Flow (2) |
| 124 | 19.64 | 116.91 | Shut-In(2) |
| 191 | 44.89 | 118.64 | End Shut-In(2) |
| 192 | 1985.30 | 119.61 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00 | 100% mud | 0.01 |
| | | |
| | | |
| | | |
| | | |

* 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 Ste 300
 Wichita KS 67202
 ATTN: Keith Reavis

18-4s-33w Rawlings,KS

Makings #1-18

Job Ticket: 57749

DST#: 2

Test Start: 2014.10.27 @ 13:06:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:22:40

Time Test Ended: 20:21:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: **4042.00 ft (KB) To 4080.00 ft (KB) (TVD)**

Total Depth: 4080.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3103.00 ft (KB)

3098.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: psig @ 4046.00 ft (KB)

Start Date: 2014.10.27

End Date:

2014.10.27

Start Time: 13:06:05

End Time:

20:23:14

Capacity: 8000.00 psig

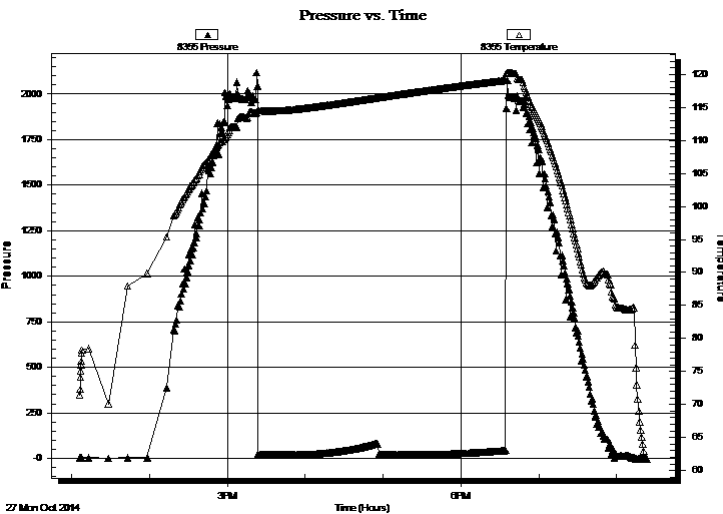
Last Calib.:

2014.10.27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow
 IS- No Blow
 FF- No Blow
 FS- No Blow



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00 | 100% mud | 0.01 |
| | | |
| | | |
| | | |
| | | |

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
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 57749 **DST#: 2**
Test Start: 2014.10.27 @ 13:06:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3870.00 ft | Diameter: 3.80 inches | Volume: 54.29 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 32000.00 lb |
| Drill Collar: | Length: 177.00 ft | Diameter: 2.25 inches | Volume: 0.87 bbl | Weight to Pull Loose: 18000.00 lb |
| | | | <u>Total Volume: 55.16 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 4042.00 ft | | | Final 60000.0 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 38.00 ft | | | |
| Tool Length: | 65.00 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 | | | 4016.00 | |
| Shut In Tool | 5.00 | | | 4021.00 | |
| Hydraulic tool | 5.00 | | | 4026.00 | |
| Jars | 5.00 | | | 4031.00 | |
| Safety Joint | 2.00 | | | 4033.00 | |
| Packer | 5.00 | | | 4038.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4042.00 | |
| Stubb | 1.00 | | | 4043.00 | |
| Perforations | 3.00 | | | 4046.00 | |
| Recorder | 0.00 | 8355 | Outside | 4046.00 | |
| Recorder | 0.00 | 8674 | Inside | 4046.00 | |
| Perforations | 29.00 | | | 4075.00 | |
| Bullnose | 5.00 | | | 4080.00 | 38.00 Bottom Packers & Anchor |

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 57749 **DST#: 2**
Test Start: 2014.10.27 @ 13:06:00

Mud and Cushion Information

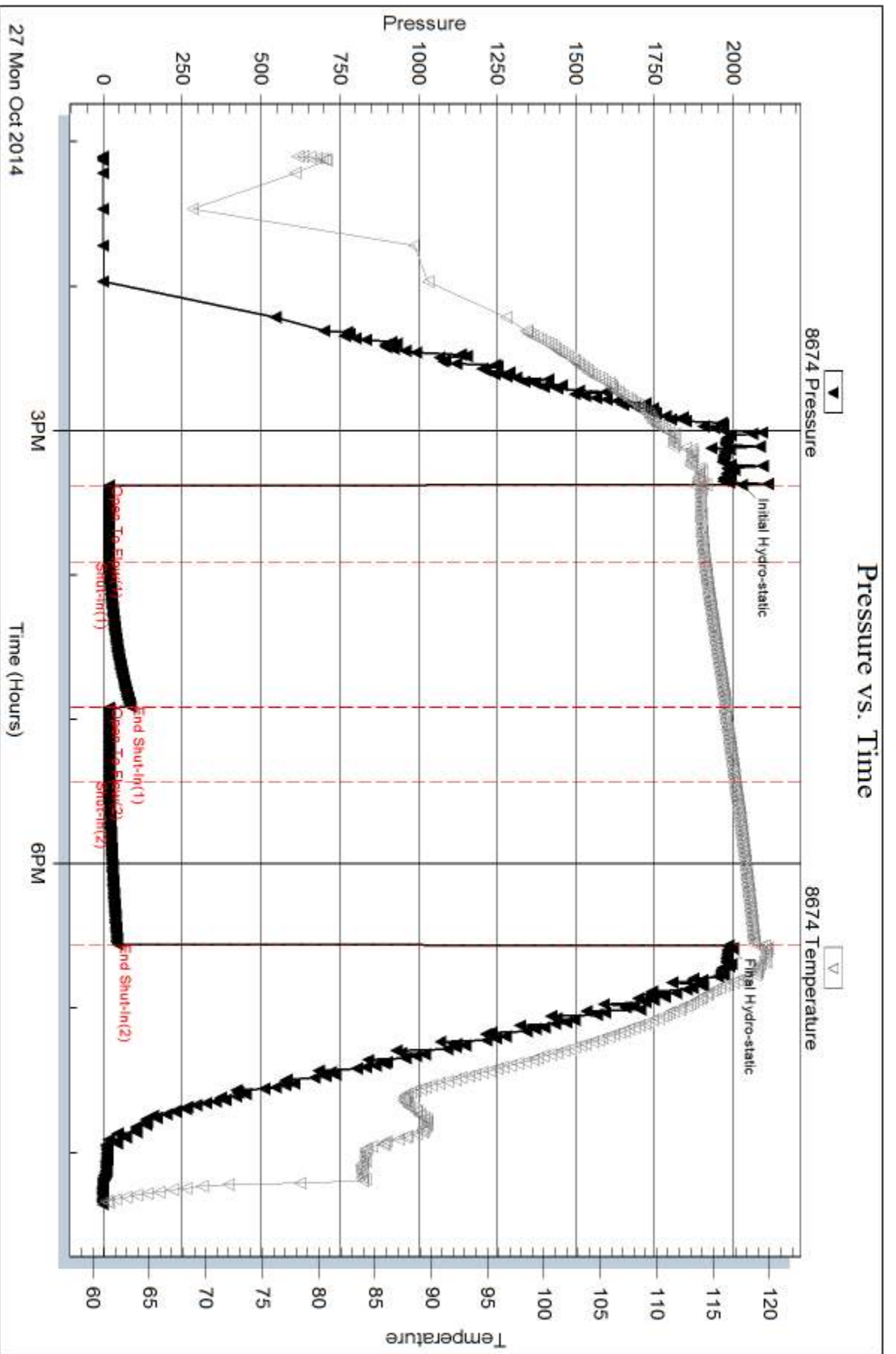
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.15 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 3.00 | 100%mud | 0.015 |

Total Length: 3.00 ft Total Volume: 0.015 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

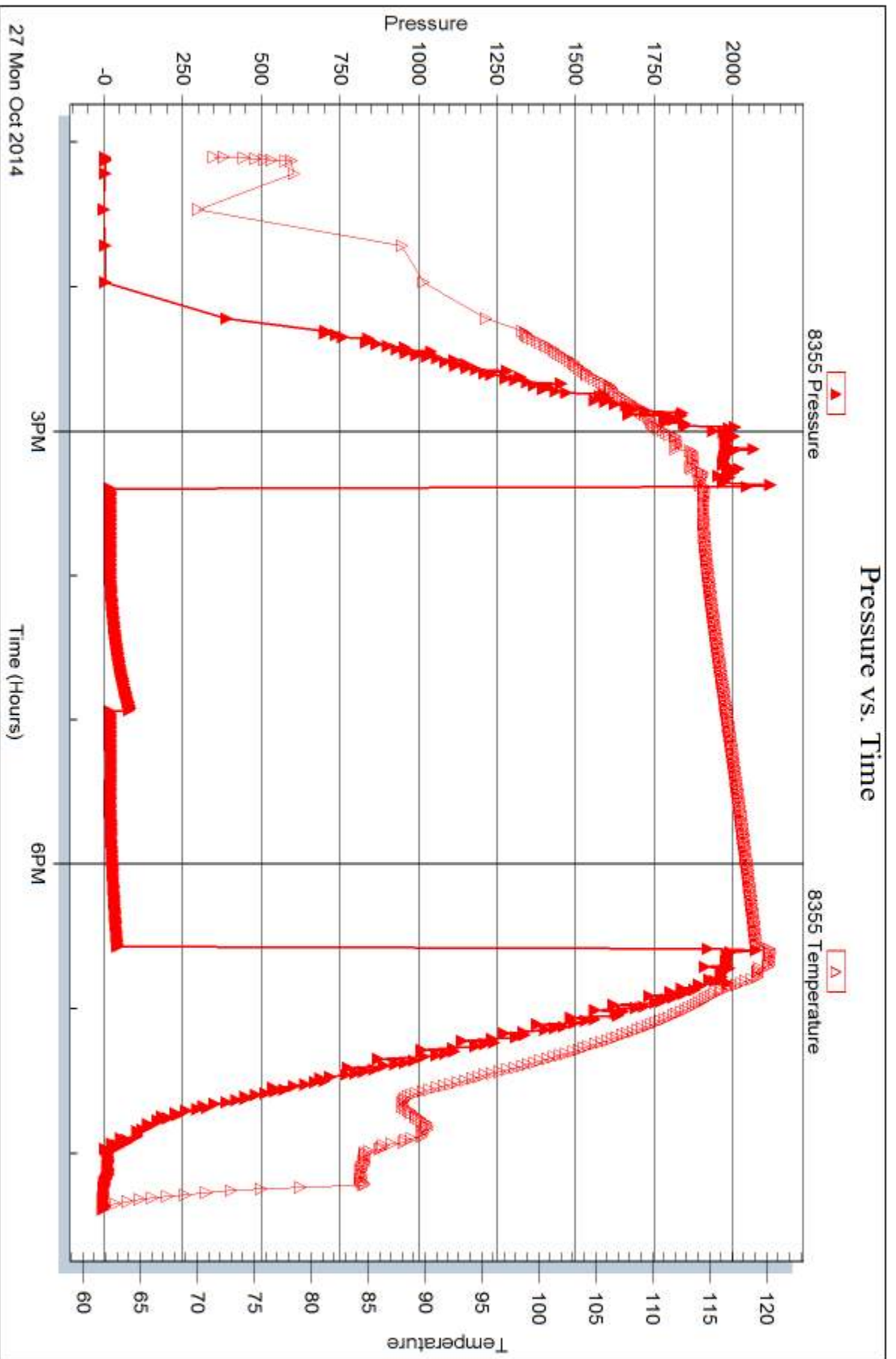


Serial #: 8355

Outside Murfin Drilling Co. Inc

Makings #1-18

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57749

Printed: 2014, 10, 31 @ 10:04:35



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Keith Reavis

Makings #1-18

18-4s-33w Rawlings,KS

Start Date: 2014.10.28 @ 07:08:00

End Date: 2014.10.28 @ 14:31:54

Job Ticket #: 57750 DST #: 3

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

Printed: 2014.10.31 @ 10:04:13

Murfin Drilling Co. Inc

18-4s-33w Rawlings,KS

Makings #1-18

DST # 3

LKC " F - G "

2014.10.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
 250 N. Water Ste 300
 Wichita KS 67202
 ATTN: Keith Reavis

18-4s-33w Rawlings,KS

Makings #1-18

Job Ticket: 57750

DST#: 3

Test Start: 2014.10.28 @ 07:08:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:11:10

Time Test Ended: 14:31:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4082.00 ft (KB) To 4126.00 ft (KB) (TVD)

Reference Elevations: 3103.00 ft (KB)

Total Depth: 4126.00 ft (KB) (TVD)

3098.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8674

Inside

Press@RunDepth: 38.50 psig @ 4083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.28

End Date:

2014.10.28

Last Calib.:

2014.10.28

Start Time:

07:08:00

End Time:

14:31:54

Time On Btm:

2014.10.28 @ 09:10:55

Time Off Btm:

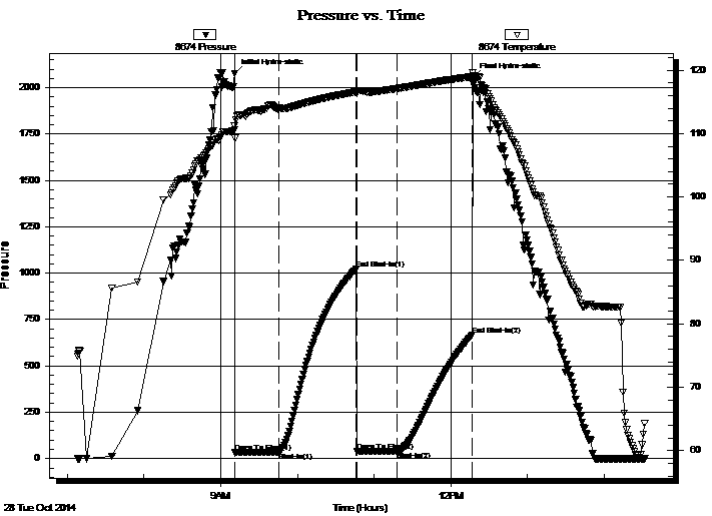
2014.10.28 @ 12:17:09

TEST COMMENT: IF- 1/2" Blow Died in 17min Slid 5' to Bottom

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2077.77 | 110.61 | Initial Hydro-static |
| 1 | 32.07 | 109.25 | Open To Flow (1) |
| 35 | 36.00 | 113.96 | Shut-In(1) |
| 95 | 1021.72 | 116.55 | End Shut-In(1) |
| 96 | 37.22 | 116.25 | Open To Flow (2) |
| 127 | 38.50 | 117.09 | Shut-In(2) |
| 186 | 667.09 | 118.97 | End Shut-In(2) |
| 187 | 2053.61 | 119.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | 100% mud | 0.05 |
| | | |
| | | |
| | | |
| | | |

* 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 Ste 300
 Wichita KS 67202
 ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
 Job Ticket: 57750 **DST#: 3**
 Test Start: 2014.10.28 @ 07:08:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:11:10

Time Test Ended: 14:31:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4082.00 ft (KB) To 4126.00 ft (KB) (TVD)

Total Depth: 4126.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3103.00 ft (KB)

3098.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8355

Outside

Press@RunDepth: psig @ 4083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.28 End Date: 2014.10.28

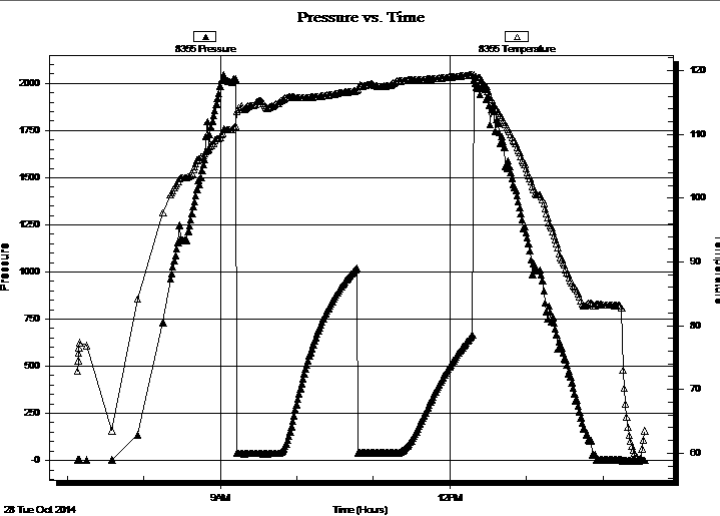
Last Calib.: 2014.10.28

Start Time: 07:08:05 End Time: 14:33:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- 1/2" Blow Died in 17min Slid 5' to Bottom
 IS- No Blow
 FF- No Blow
 FS- No Blow



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | 100% mud | 0.05 |
| | | |
| | | |
| | | |
| | | |

* 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
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 57750 **DST#: 3**
Test Start: 2014.10.28 @ 07:08:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3902.00 ft | Diameter: 3.80 inches | Volume: 54.73 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 28000.00 lb |
| Drill Collar: | Length: 177.00 ft | Diameter: 2.25 inches | Volume: 0.87 bbl | Weight to Pull Loose: 8000.00 lb |
| | | | <u>Total Volume: 55.60 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 4082.00 ft | | | Final 60000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 44.00 ft | | | |
| Tool Length: | 71.00 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 | | | 4056.00 | |
| Shut In Tool | 5.00 | | | 4061.00 | |
| Hydraulic tool | 5.00 | | | 4066.00 | |
| Jars | 5.00 | | | 4071.00 | |
| Safety Joint | 2.00 | | | 4073.00 | |
| Packer | 5.00 | | | 4078.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4082.00 | |
| Stubb | 1.00 | | | 4083.00 | |
| Recorder | 0.00 | 8355 | Outside | 4083.00 | |
| Recorder | 0.00 | 8674 | Inside | 4083.00 | |
| Perforations | 5.00 | | | 4088.00 | |
| Change Over Sub | 1.00 | | | 4089.00 | |
| Drill Pipe | 31.00 | | | 4120.00 | |
| Change Over Sub | 1.00 | | | 4121.00 | |
| Bullnose | 5.00 | | | 4126.00 | 44.00 Bottom Packers & Anchor |

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 57750 **DST#: 3**
Test Start: 2014.10.28 @ 07:08:00

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: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.14 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | 100%mud | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

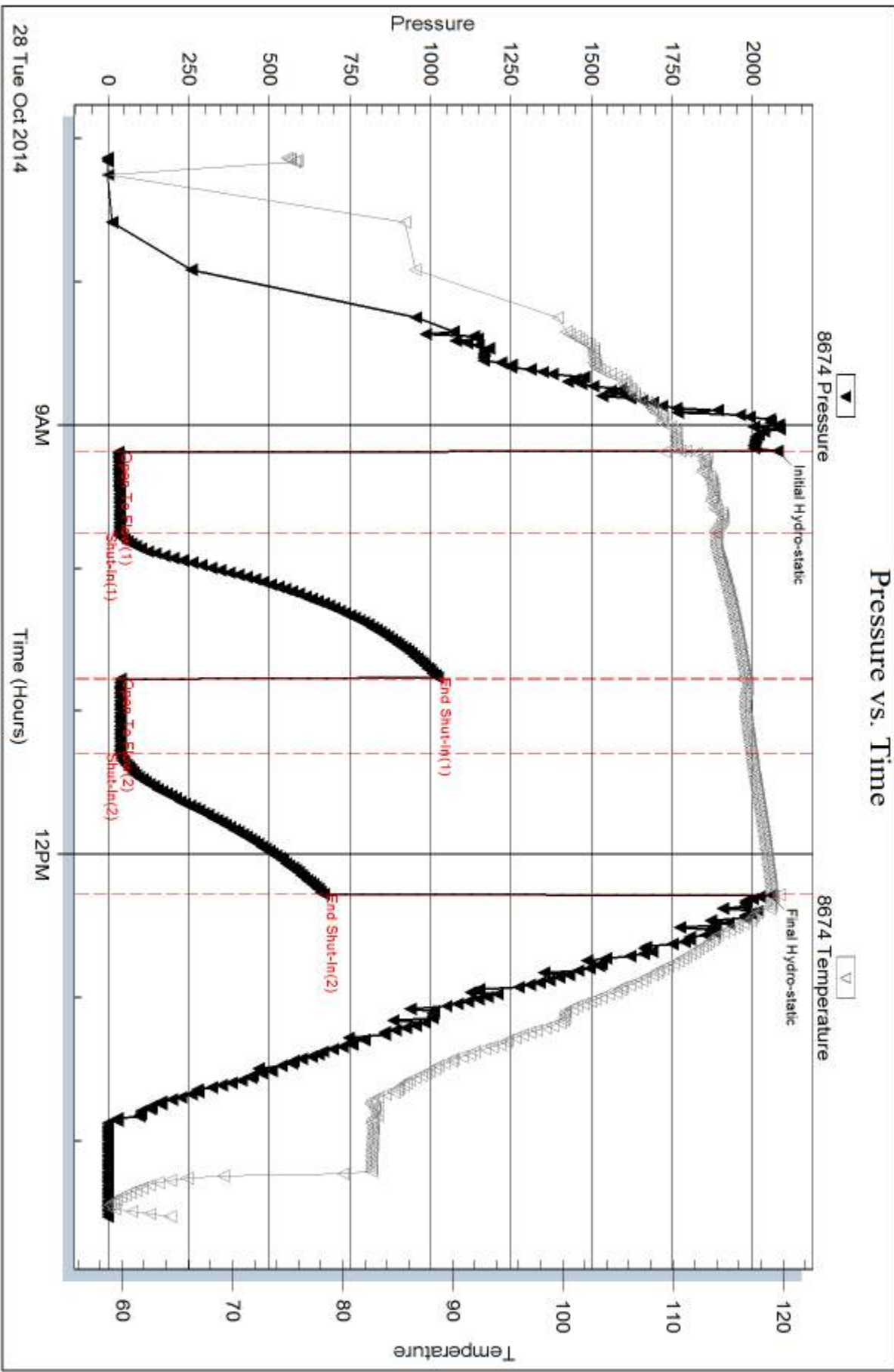
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Makings #1-18

DST Test Number: 3



28 Tue Oct 2014

9AM

Time (Hours)

12PM

Trilobite Testing, Inc

Ref. No: 57750

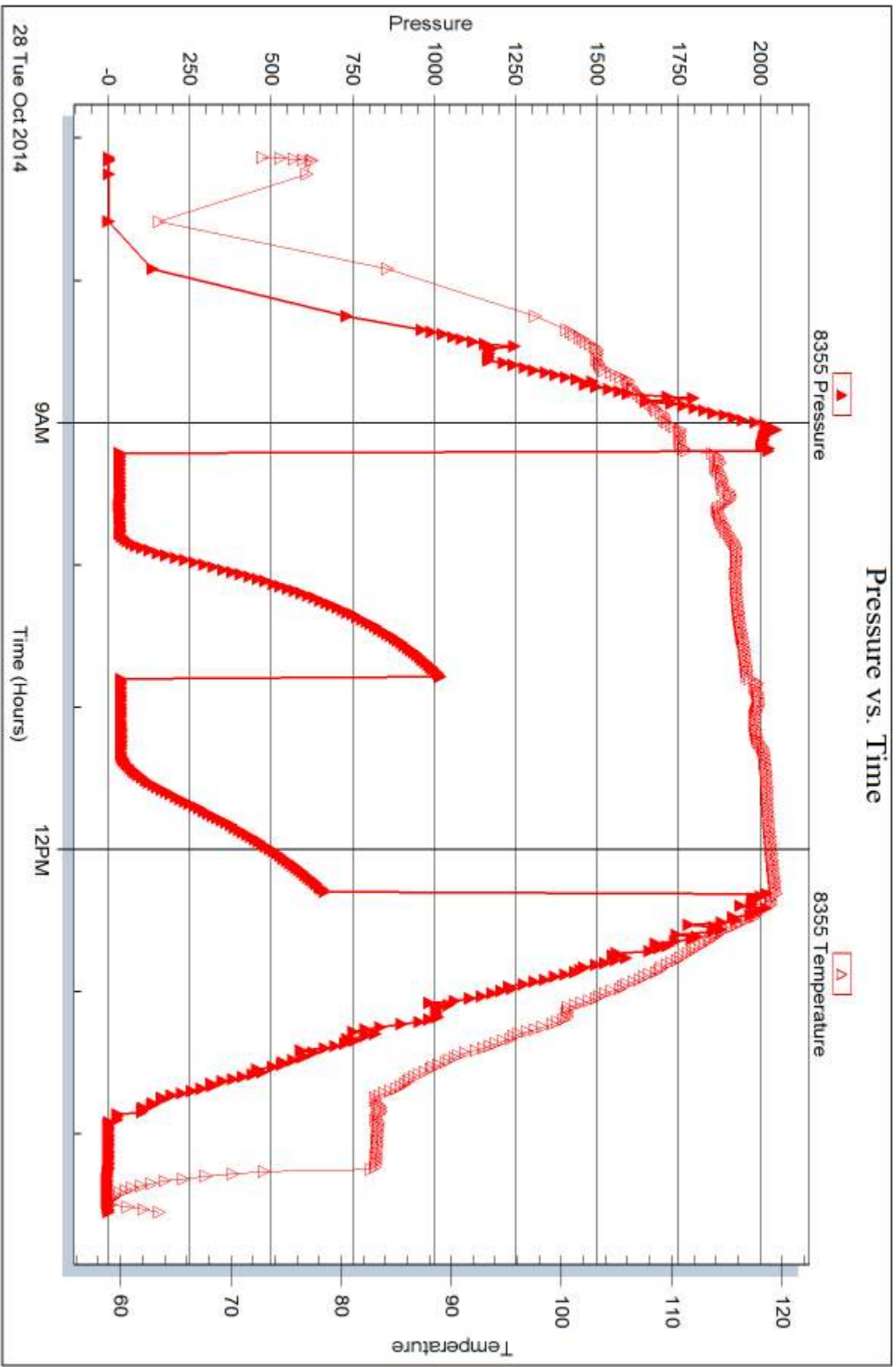
Printed: 2014, 10, 31 @ 10:04:14

Serial #: 8355

Outside Murfin Drilling Co. Inc

Makings #1-18

DST Test Number: 3



28 Tue Oct 2014

9AM

Time (Hours)

12PM



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Keith Reavis

Makings #1-18

18-4s-33w Rawlings,KS

Start Date: 2014.10.29 @ 02:08:00

End Date: 2014.10.29 @ 12:10:55

Job Ticket #: 58702 DST #: 4

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

Printed: 2014.10.31 @ 10:03:47

Murfin Drilling Co. Inc

18-4s-33w Rawlings,KS

Makings #1-18

DST # 4

LKC "H-J"

2014.10.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS

Makings #1-18

Job Ticket: 58702 **DST#: 4**
Test Start: 2014.10.29 @ 02:08:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:36:10
Time Test Ended: 12:10:55
Interval: **4139.00 ft (KB) To 4220.00 ft (KB) (TVD)**
Total Depth: 4220.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 71
Reference Elevations: 3103.00 ft (KB)
3098.00 ft (CF)
KB to GR/CF: 5.00 ft

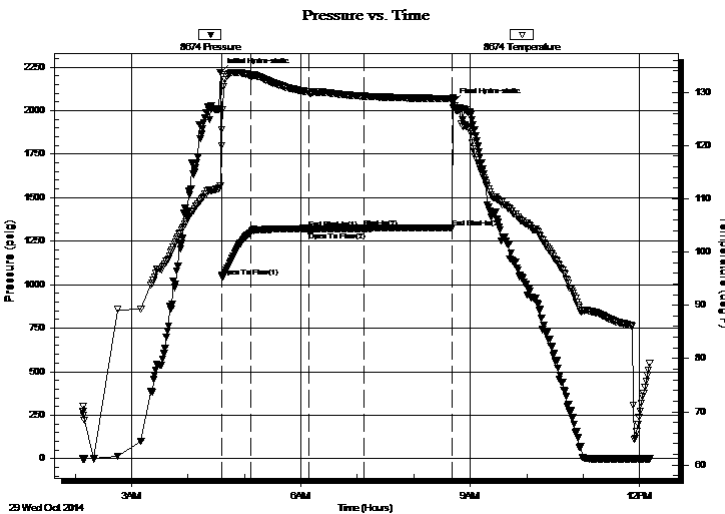
Serial #: 8674

Inside

Press@RunDepth: 1324.52 psig @ 4140.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.29 End Date: 2014.10.29 Last Calib.: 2014.10.29
Start Time: 02:08:00 End Time: 12:10:55 Time On Btm: 2014.10.29 @ 04:34:25
Time Off Btm: 2014.10.29 @ 08:41:39

TEST COMMENT: IF- Surface Blow 5" Built to BOB in 45sec Slid 8' to Bottom
IS- No Blow
FF- Weak Surface Blow Built to BOB in 5min Died Back to 3 1/4"
FS- No Blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2219.99 | 112.45 | Initial Hydro-static |
| 2 | 1046.51 | 123.01 | Open To Flow (1) |
| 33 | 1299.13 | 133.03 | Shut-In(1) |
| 94 | 1322.50 | 130.02 | End Shut-In(1) |
| 94 | 1304.45 | 129.97 | Open To Flow (2) |
| 153 | 1324.52 | 129.23 | Shut-In(2) |
| 247 | 1326.12 | 128.77 | End Shut-In(2) |
| 248 | 2044.62 | 129.01 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 1500.00 | GMCW 3%g 4%m 93%w | 19.43 |
| 630.00 | GMCW 3%g 20%m 77%w | 8.84 |
| 441.00 | GWCM 3%g 45%w 52%m | 6.19 |
| 257.00 | WCM 33%w 67%m | 3.61 |
| | | |
| | | |

* 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 Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS

Makings #1-18

Job Ticket: 58702

DST#: 4

Test Start: 2014.10.29 @ 02:08:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:36:10

Time Test Ended: 12:10:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4139.00 ft (KB) To 4220.00 ft (KB) (TVD)

Reference Elevations: 3103.00 ft (KB)

Total Depth: 4220.00 ft (KB) (TVD)

3098.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: psig @ 4140.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.29

End Date: 2014.10.29

Last Calib.: 2014.10.29

Start Time: 02:08:05

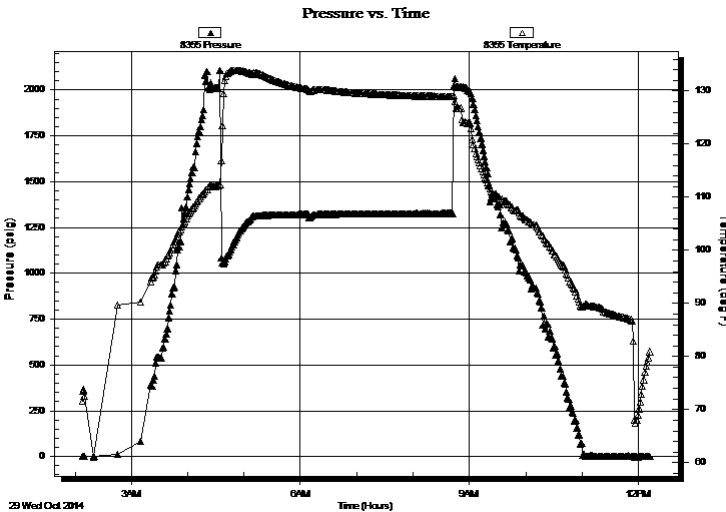
End Time: 12:12:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Surface Blow 5" Built to BOB in 45sec Slid 8' to Bottom
IS- No Blow
FF- Weak Surface Blow Built to BOB in 5min Died Back to 3 1/4"
FS- No Blow

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 1500.00 | GMCW 3%g 4%m 93%w | 19.43 |
| 630.00 | GMCW 3%g 20%m 77%w | 8.84 |
| 441.00 | GWCM 3%g 45%w 52%m | 6.19 |
| 257.00 | WCM 33%w 67%m | 3.61 |
| | | |
| | | |

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
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 58702 **DST#: 4**
Test Start: 2014.10.29 @ 02:08:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3967.00 ft | Diameter: 3.80 inches | Volume: 55.65 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 36000.00 lb |
| Drill Collar: | Length: 177.00 ft | Diameter: 2.25 inches | Volume: 0.87 bbl | Weight to Pull Loose: | 10000.00 lb |
| | | | <u>Total Volume: 56.52 bbl</u> | Tool Chased | ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial | 62000.00 lb |
| Depth to Top Packer: | 4139.00 ft | | | Final | 70000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 81.00 ft | | | | |
| Tool Length: | 108.00 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 | | | 4113.00 | |
| Shut In Tool | 5.00 | | | 4118.00 | |
| Hydraulic tool | 5.00 | | | 4123.00 | |
| Jars | 5.00 | | | 4128.00 | |
| Safety Joint | 2.00 | | | 4130.00 | |
| Packer | 5.00 | | | 4135.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4139.00 | |
| Stubb | 1.00 | | | 4140.00 | |
| Recorder | 0.00 | 8355 | Outside | 4140.00 | |
| Recorder | 0.00 | 8674 | Inside | 4140.00 | |
| Perforations | 10.00 | | | 4150.00 | |
| Change Over Sub | 1.00 | | | 4151.00 | |
| Drill Pipe | 63.00 | | | 4214.00 | |
| Change Over Sub | 1.00 | | | 4215.00 | |
| Bullnose | 5.00 | | | 4220.00 | 81.00 Bottom Packers & Anchor |

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc
250 N. Water Ste 300
Wichita KS 67202
ATTN: Keith Reavis

18-4s-33w Rawlings,KS
Makings #1-18
Job Ticket: 58702 **DST#: 4**
Test Start: 2014.10.29 @ 02:08:00

Mud and Cushion Information

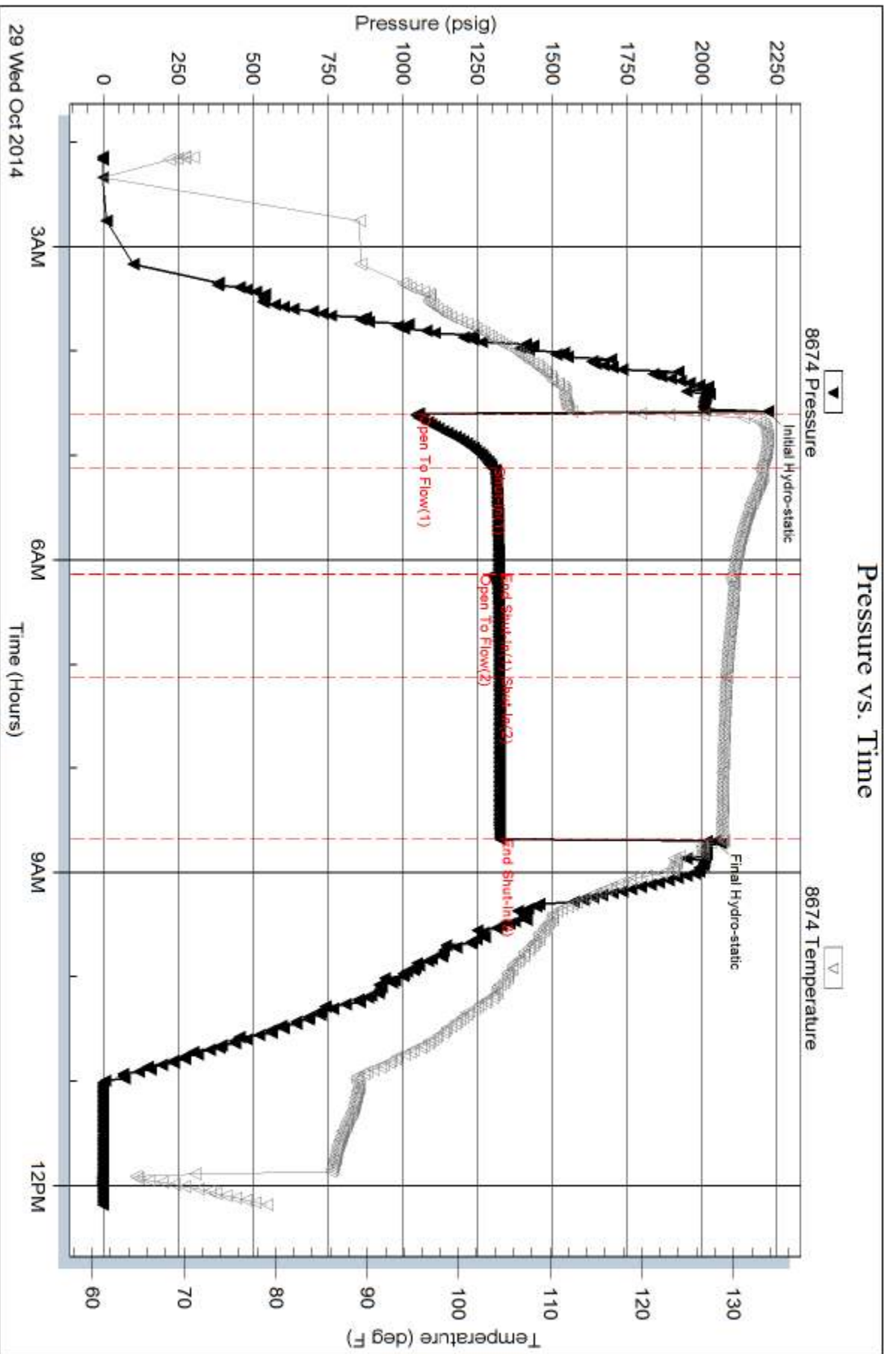
| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 32000 ppm |
| Viscosity: 46.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.16 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2600.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------|---------------|
| 1500.00 | GMCW 3%g 4%m 93%w | 19.429 |
| 630.00 | GMCW 3%g 20%m 77%w | 8.837 |
| 441.00 | GWCM 3%g 45%w 52%m | 6.186 |
| 257.00 | WCM 33%w 67%m | 3.605 |

Total Length: 2828.00 ft Total Volume: 38.057 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: API is .123 @ 66f = 32000

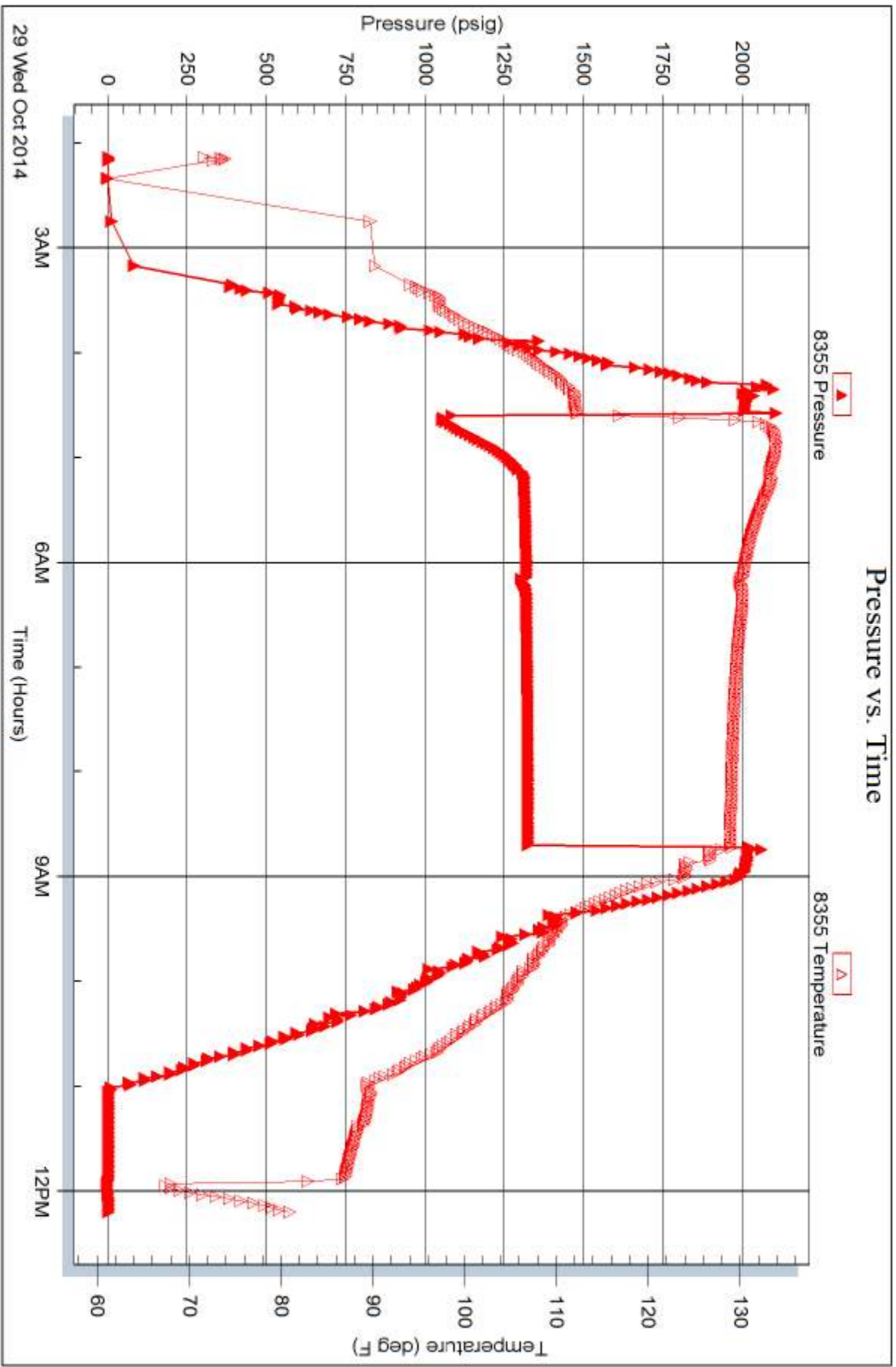


Serial #: 8355

Outside Murfin Drilling Co. Inc

Makings #1-18

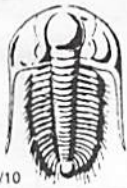
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 58702

Printed: 2014, 10, 31 @ 10:03:49



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57748

Well Name & No. Makings #1-18 Test No. DST #1 Date 10-25-14
 Company Martin Drilling Co Inc Elevation 3103 KB 3098 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Keith Reavis Rig Martin #7
 Location: Sec. 18 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 3986-4040 Zone Tested Toronto / LRC "A"
 Anchor Length 54 Drill Pipe Run 3806 Mud Wt. 9.1
 Top Packer Depth 3982 Drill Collars Run 177 Vis 56
 Bottom Packer Depth 3986 Wt. Pipe Run 0 WL 8.2
 Total Depth 4040 Chlorides 1000 ppm System LCM 416
 Blow Description TF - Weak Surface Blow 1/4"
ISI - No Blow
FF - No Blow
FST - No Blow

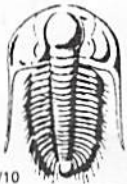
| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------|------|------|------------|------|
| <u>5</u> | <u>Mud</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 5 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2004 Test 1250 T-On Location 17:20
 (B) First Initial Flow 16 Jars 250 T-Started 19:08
 (C) First Final Flow 18 Safety Joint 75 T-Open 21:44
 (D) Initial Shut-In 859 Circ Sub N/C T-Pulled 00:49
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 3:32
 (F) Second Final Flow 20 Mileage 188 R/T 76rt 117.80 Comments _____
 (G) Final Shut-In 779 Sampler _____ Motel
 (H) Final Hydrostatic 1899 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 1692.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1692.80

Approved By Keith Reavis Our Representative [Signature]

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. 57749

Well Name & No. McKings #1-18 Test No. DST #2 Date 10-27-14
 Company Murfin Drilling Co. Inc Elevation 3103 KB 3098 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin 7
 Location: Sec. 18 Twp. 4s Rge. 33W Co. Rawlins State KS

Interval Tested 4042-4080 Zone Tested LRC "B-D"
 Anchor Length 38 Drill Pipe Run 3870 Mud Wt. 9.2
 Top Packer Depth 4038 Drill Collars Run 177 Vis 50
 Bottom Packer Depth 4042 Wt. Pipe Run 0 WL 9.2
 Total Depth 4080 Chlorides 1500 ppm System LCM 216

Blow Description IF- Weak Surface Blow
ISI- No Blow
FF- No Blow
FST- No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------|------|------|------------|------|
| <u>3</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 |

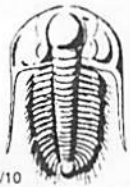
Rec Total 3 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2027 Test 1250 T-On Location 12:04
 (B) First Initial Flow 18 Jars 250 T-Started 13:06
 (C) First Final Flow 19 Safety Joint 75 T-Open 15:22
 (D) Initial Shut-In 86 Circ Sub NIC T-Pulled 18:23
 (E) Second Initial Flow 18 Hourly Standby T-Out 20:21.54
 (F) Second Final Flow 19 Mileage 188 RIT 117.80 Comments _____
 (G) Final Shut-In 44 Sampler _____ Motel
 (H) Final Hydrostatic 1985 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 1692.80
 Final Flow 30 Day Standby _____ Total _____
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1692.80

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57750

Well Name & No. Markings #1-18 Test No. DST #3 Date 10-28-14
 Company Martin Drilling Co. Inc Elevation 3103 KB 3098 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Keith Reavis Rig Martin 7
 Location: Sec. 18 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4082-4126 Zone Tested LRC "F-G"
 Anchor Length 44 Drill Pipe Run 3902 Mud Wt. 9.2
 Top Packer Depth 4078 Drill Collars Run 177 Vis 50
 Bottom Packer Depth 4082 Wt. Pipe Run 0 WL 9.2
 Total Depth 4126 Chlorides 1500 ppm System LCM 216
 Blow Description IF - 1/2" Blow Prod in 17 min slid 5' to bottom
ISI - No Blow
FF - No Blow
FBI - No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|------|------|------------|------|
| <u>10</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 10 BHT 119 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2077 Test 1250 T-On Location 6:44
 (B) First Initial Flow 32 Jars 250 T-Started 7:05
 (C) First Final Flow 36 Safety Joint 75 T-Open 9:11
 (D) Initial Shut-In 1021 Circ Sub NIC T-Pulled 12:17
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 14:31
 (F) Second Final Flow 38 Mileage 180 R/T 117.80 Comments _____
 (G) Final Shut-In 667 Sampler _____ Motel
 (H) Final Hydrostatic 2053 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 1692.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1692.80

Approved By _____ Our Representative W. M.
 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. 58702

Well Name & No. Makings #1-18 Test No. D57 #4 Date 10-29-14
 Company Martin Drilling Co. Inc Elevation 3103 KB 3098 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Keith Reavis Rig Martin 7
 Location: Sec. 18 Twp. 4s Rge. 33w Co. Rawlins State KS

Interval Tested 4139-4220 Zone Tested LRC "H-J"
 Anchor Length 81 Drill Pipe Run 3967 Mud Wt. 9.1
 Top Packer Depth 4135 Drill Collars Run 177 Vis 46
 Bottom Packer Depth 4139 Wt. Pipe Run 0 WL 9.2
 Total Depth 4220 Chlorides 2600 ppm System LCM 216

Blow Description IF - Surface Blow 5" Built to BOB in 45 sec slid 8' to Bottom
ISI - No Blow
EF - Well Surface Blow Built to BOB in 5 min Died Back to 3 1/4"
FST - No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|-------------|----------|-----------|-----------|------|
| <u>257</u> | <u>WCM</u> | | <u>33</u> | <u>67</u> | |
| <u>441</u> | <u>GWCM</u> | <u>3</u> | <u>45</u> | <u>52</u> | |
| <u>630</u> | <u>GMCW</u> | <u>3</u> | <u>77</u> | <u>20</u> | |
| <u>1500</u> | <u>GMCW</u> | <u>3</u> | <u>93</u> | <u>4</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 2828 BHT 128 Gravity API RW 123 @ 66 °F Chlorides 32000 ppm

(A) Initial Hydrostatic 2219 Test 1250 T-On Location 1:40
 (B) First Initial Flow 1046 Jars 250 T-Started 2:08
 (C) First Final Flow 1299 Safety Joint 75 T-Open 4:36
 (D) Initial Shut-In 1322 Circ Sub MC T-Pulled 8:41
 (E) Second Initial Flow 1304 Hourly Standby T-Out 12:10
 (F) Second Final Flow 1324 Mileage 188 RIT 117.80 Comments Notes
 (G) Final Shut-In 1326 Sampler 117.80 Loaded tools 10/30
 (H) Final Hydrostatic 2044 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1810.60
 Accessibility MP/DST Disc't _____
 Sub Total 1810.60

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

Approved By _____ Our Representative [Signature]

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.