



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Morgenstern B #1

13-16S-14W Barton,KS

Start Date: 2017.06.11 @ 02:30:10

End Date: 2017.06.11 @ 09:16:40

Job Ticket #: 63253 DST #: 1

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

Printed: 2017.06.13 @ 15:21:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.

13-16S-14W Barton,KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63253

DST#: 1

ATTN: Austin Klaus

Test Start: 2017.06.11 @ 02:30:10

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:43:00

Time Test Ended: 09:16:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 65

Interval: 3116.00 ft (KB) To 3164.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3164.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8646 Outside

Press@RunDepth: 42.36 psig @ 3117.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.11 End Date: 2017.06.11

Last Calib.: 2017.06.11

Start Time: 02:30:11 End Time: 09:16:40

Time On Btm: 2017.06.11 @ 04:42:50

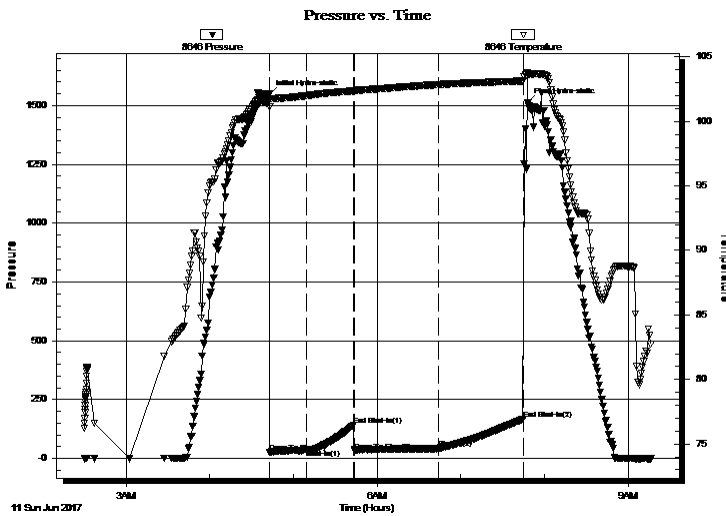
Time Off Btm: 2017.06.11 @ 07:48:00

TEST COMMENT: 30- IF- Weak blow built very slow ly to 2 1/2"

30- IS- No blow

60- FF- Weak blow built very slow ly to 1"

60- FSI- No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1546.41 | 102.15 | Initial Hydro-static |
| 1 | 25.21 | 101.14 | Open To Flow (1) |
| 27 | 37.99 | 102.00 | Shut-In(1) |
| 61 | 141.96 | 102.36 | End Shut-In(1) |
| 61 | 32.13 | 102.39 | Open To Flow (2) |
| 121 | 42.36 | 102.85 | Shut-In(2) |
| 182 | 165.74 | 103.14 | End Shut-In(2) |
| 186 | 1513.31 | 103.70 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 30.00 | Mw / few oil spots | 0.22 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63253

DST#: 1

ATTN: Austin Klaus

Test Start: 2017.06.11 @ 02:30:10

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2819.00 ft | Diameter: 3.82 inches | Volume: 39.96 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 309.00 ft | Diameter: 2.75 inches | Volume: 2.27 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 68000.00 lb |
| | | | <u>Total Volume: 42.23 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial 48000.00 lb |
| Depth to Top Packer: | 3116.00 ft | | | Final 48000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 48.00 ft | | | |
| Tool Length: | 68.00 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 | | | 3097.00 | |
| Shut In Tool | 5.00 | | | 3102.00 | |
| Hydraulic tool | 5.00 | | | 3107.00 | |
| Packer | 5.00 | | | 3112.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3116.00 | |
| Stubb | 1.00 | | | 3117.00 | |
| Recorder | 0.00 | 8653 | Inside | 3117.00 | |
| Recorder | 0.00 | 8646 | Outside | 3117.00 | |
| Perforations | 11.00 | | | 3128.00 | |
| Change Over Sub | 1.00 | | | 3129.00 | |
| Drill Pipe | 31.00 | | | 3160.00 | |
| Change Over Sub | 1.00 | | | 3161.00 | |
| Bullnose | 3.00 | | | 3164.00 | 48.00 Bottom Packers & Anchor |

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

13-16S-14W Barton,KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63253

DST#: 1

ATTN: Austin Klaus

Test Start: 2017.06.11 @ 02:30:10

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------|---------------|
| 30.00 | Mw / few oil spots | 0.220 |

Total Length: 30.00 ft Total Volume: 0.220 bbl

Num Fluid Samples: 0

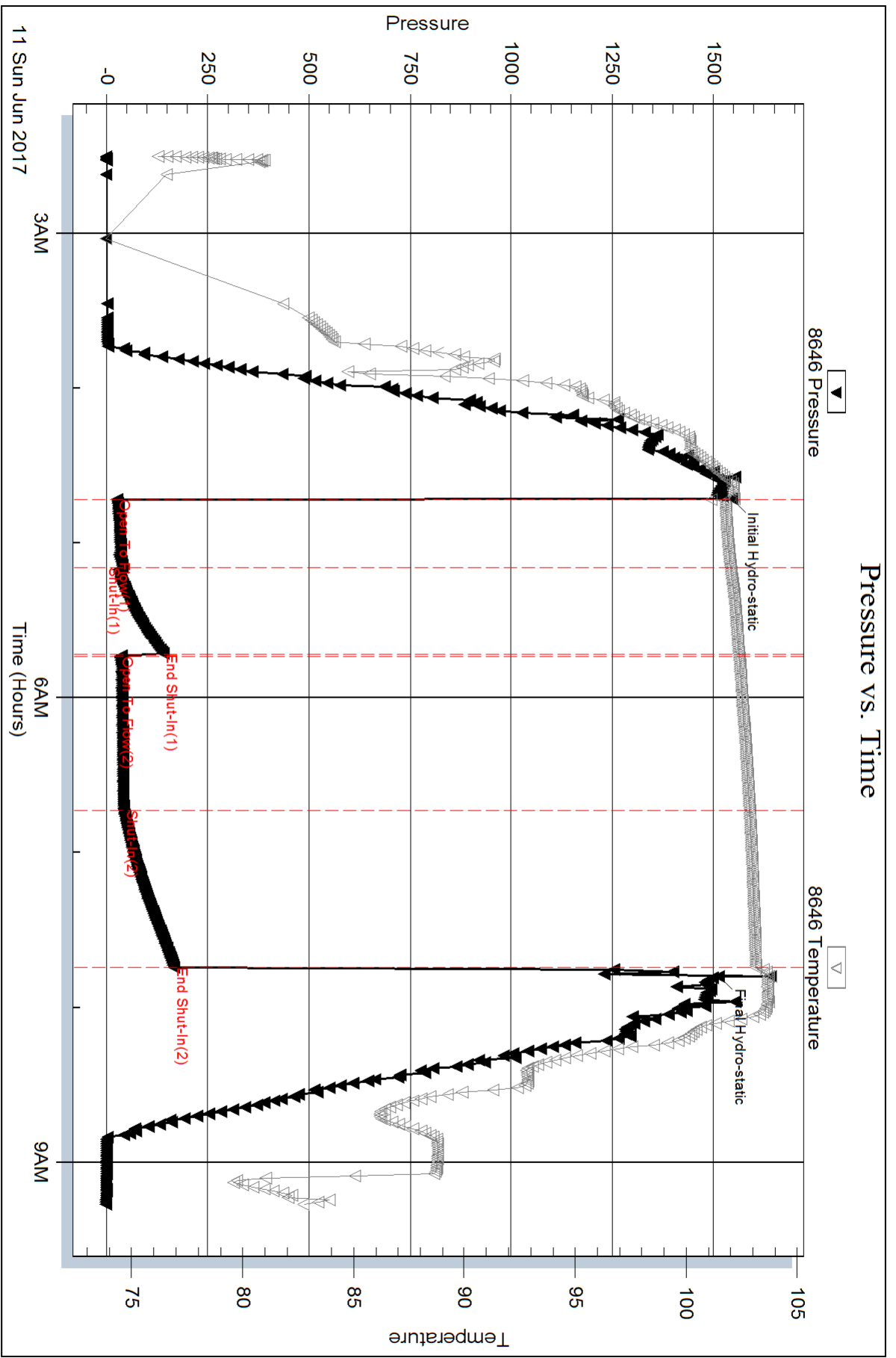
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



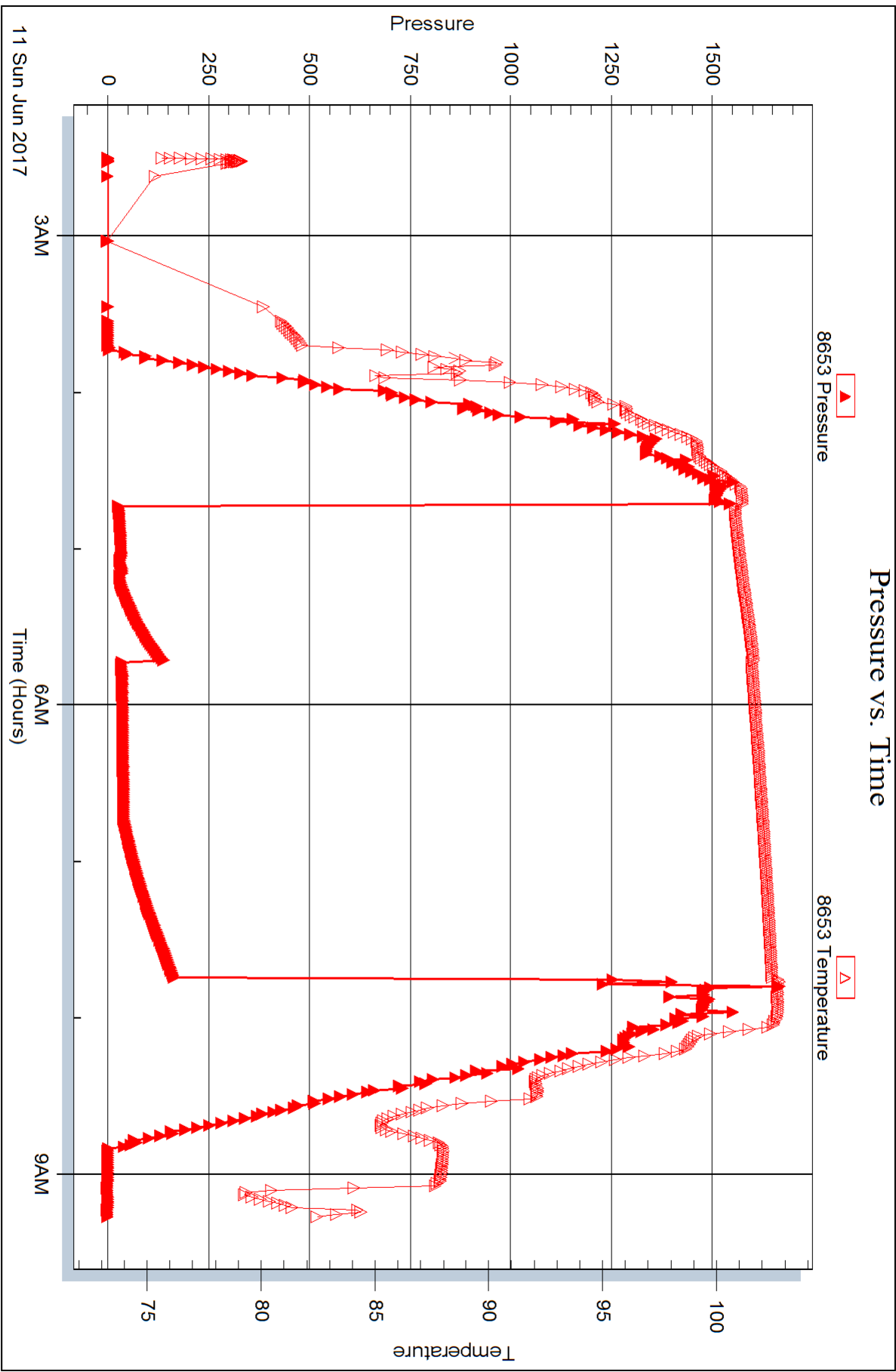
Serial #: 8653

Inside

John O. Farmer, Inc.

Morgenstern B#1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Morgenstern B #1

13-16S-14W Barton,KS

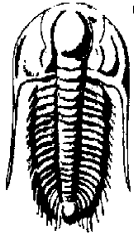
Start Date: 2017.06.11 @ 16:42:26

End Date: 2017.06.11 @ 21:02:46

Job Ticket #: 63254 DST #: 2

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

Printed: 2017.06.13 @ 15:20:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.

13-16S-14W Barton,KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63254

DST#: 2

ATTN: Austin Klaus

Test Start: 2017.06.11 @ 16:42:26

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:16:36

Time Test Ended: 21:02:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 65

Interval: 3170.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8646

Outside

Press@RunDepth: 20.68 psig @ 3171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.11

End Date:

2017.06.11

Last Calib.:

1899.12.30

Start Time: 16:42:27

End Time:

21:02:46

Time On Btm:

2017.06.11 @ 18:16:26

Time Off Btm:

2017.06.11 @ 19:40:16

TEST COMMENT: 30- IF- Weak surface blow died in 10 mins

30- IS- No blow

20- FF- No blow Pulled tool

PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1582.69 | 100.82 | Initial Hydro-static |
| 1 | 21.22 | 99.78 | Open To Flow (1) |
| 30 | 20.68 | 100.86 | Shut-In(1) |
| 60 | 86.47 | 101.20 | End Shut-In(1) |
| 61 | 21.58 | 101.21 | Open To Flow (2) |
| 82 | 22.10 | 101.44 | Shut-In(2) |
| 84 | 1542.69 | 101.88 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00 | M 100% | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.
 PO Box 352
 Russell, KS 67665
 ATTN: Austin Klaus

13-16S-14W Barton, KS
Morgenstern B #1
 Job Ticket: 63254 **DST#: 2**
 Test Start: 2017.06.11 @ 16:42:26

GENERAL INFORMATION:

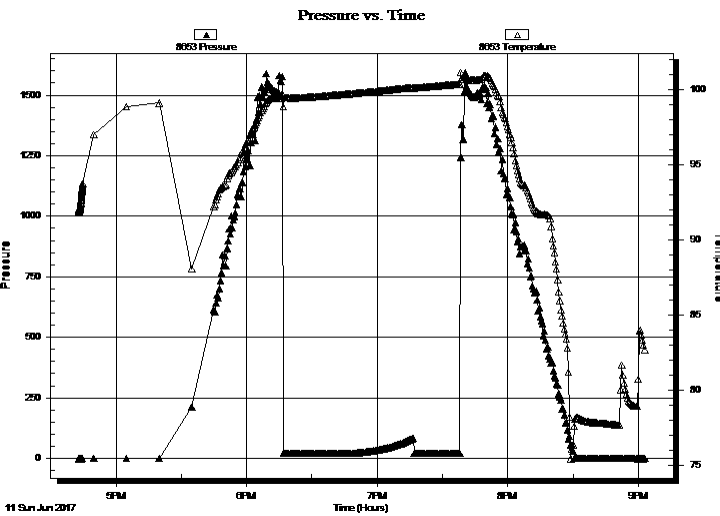
Formation: **LKC "E-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:16:36
 Time Test Ended: 21:02:46
 Interval: **3170.00 ft (KB) To 3220.00 ft (KB) (TVD)**
 Total Depth: 3220.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 65
 Reference Elevations: 1914.00 ft (KB)
 1906.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: psig @ 3171.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.11 End Date: 2017.06.11 Last Calib.: 2017.06.11
 Start Time: 16:42:48 End Time: 21:03:07 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- Weak surface blow died in 10 mins
 30- IS- No blow
 20- FF- No blow Pulled tool



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00 | M 100% | 0.02 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63254

DST#: 2

ATTN: Austin Klaus

Test Start: 2017.06.11 @ 16:42:26

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2850.00 ft | Diameter: 3.82 inches | Volume: 40.40 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 309.00 ft | Diameter: 2.75 inches | Volume: 2.27 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 42.67 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 9.00 ft | | | String Weight: Initial 48000.00 lb |
| Depth to Top Packer: | 3170.00 ft | | | Final 48000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 50.00 ft | | | |
| Tool Length: | 70.00 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 | | | 3151.00 | |
| Shut In Tool | 5.00 | | | 3156.00 | |
| Hydraulic tool | 5.00 | | | 3161.00 | |
| Packer | 5.00 | | | 3166.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3170.00 | |
| Stubb | 1.00 | | | 3171.00 | |
| Recorder | 0.00 | 8653 | Inside | 3171.00 | |
| Recorder | 0.00 | 8646 | Outside | 3171.00 | |
| Perforations | 15.00 | | | 3186.00 | |
| Change Over Sub | 1.00 | | | 3187.00 | |
| Drill Pipe | 29.00 | | | 3216.00 | |
| Change Over Sub | 1.00 | | | 3217.00 | |
| Bullnose | 3.00 | | | 3220.00 | 50.00 Bottom Packers & Anchor |

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

13-16S-14W Barton,KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63254

DST#: 2

ATTN: Austin Klaus

Test Start: 2017.06.11 @ 16:42:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 3.00 | M 100% | 0.022 |

Total Length: 3.00 ft Total Volume: 0.022 bbl

Num Fluid Samples: 0

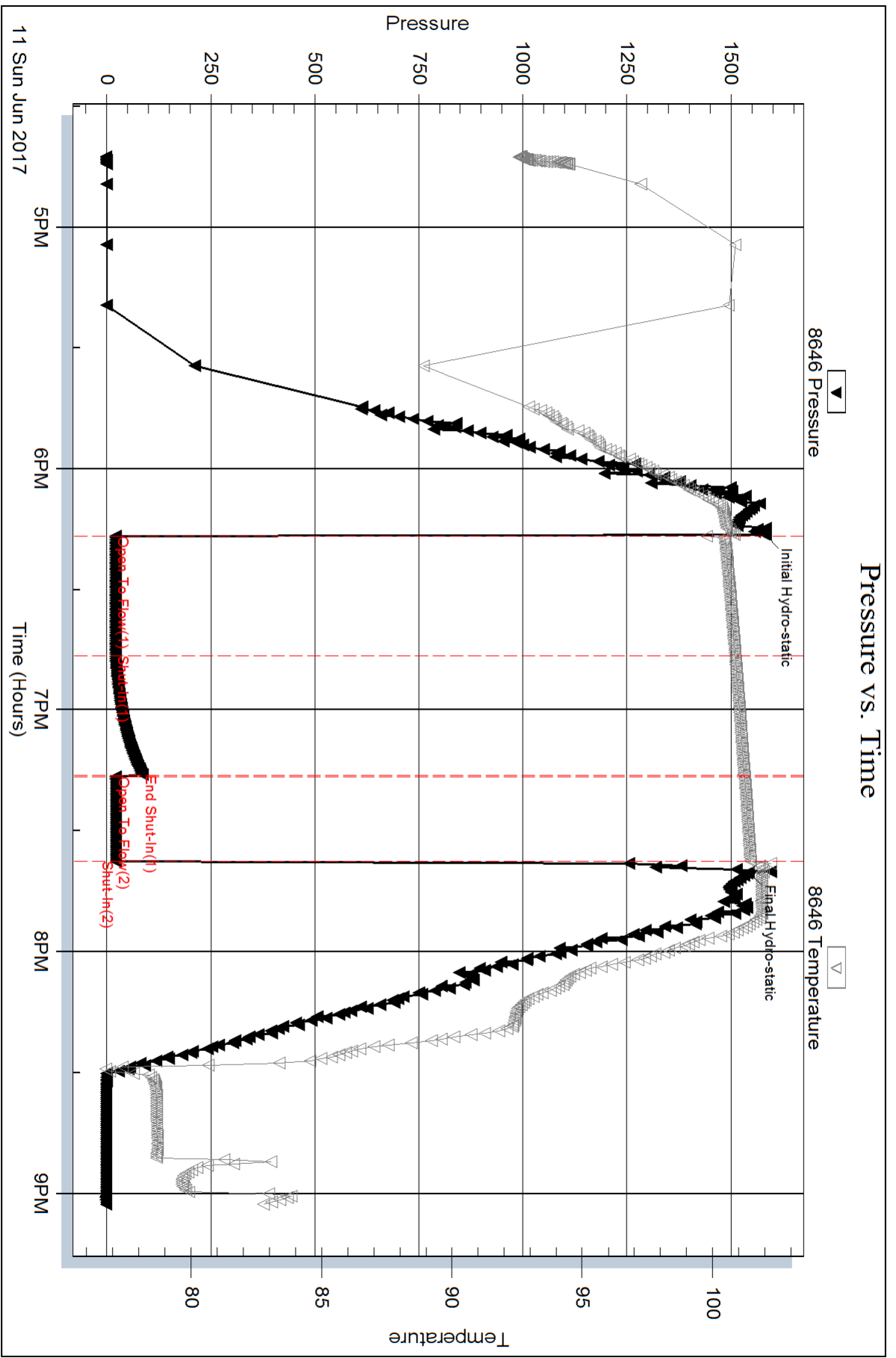
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



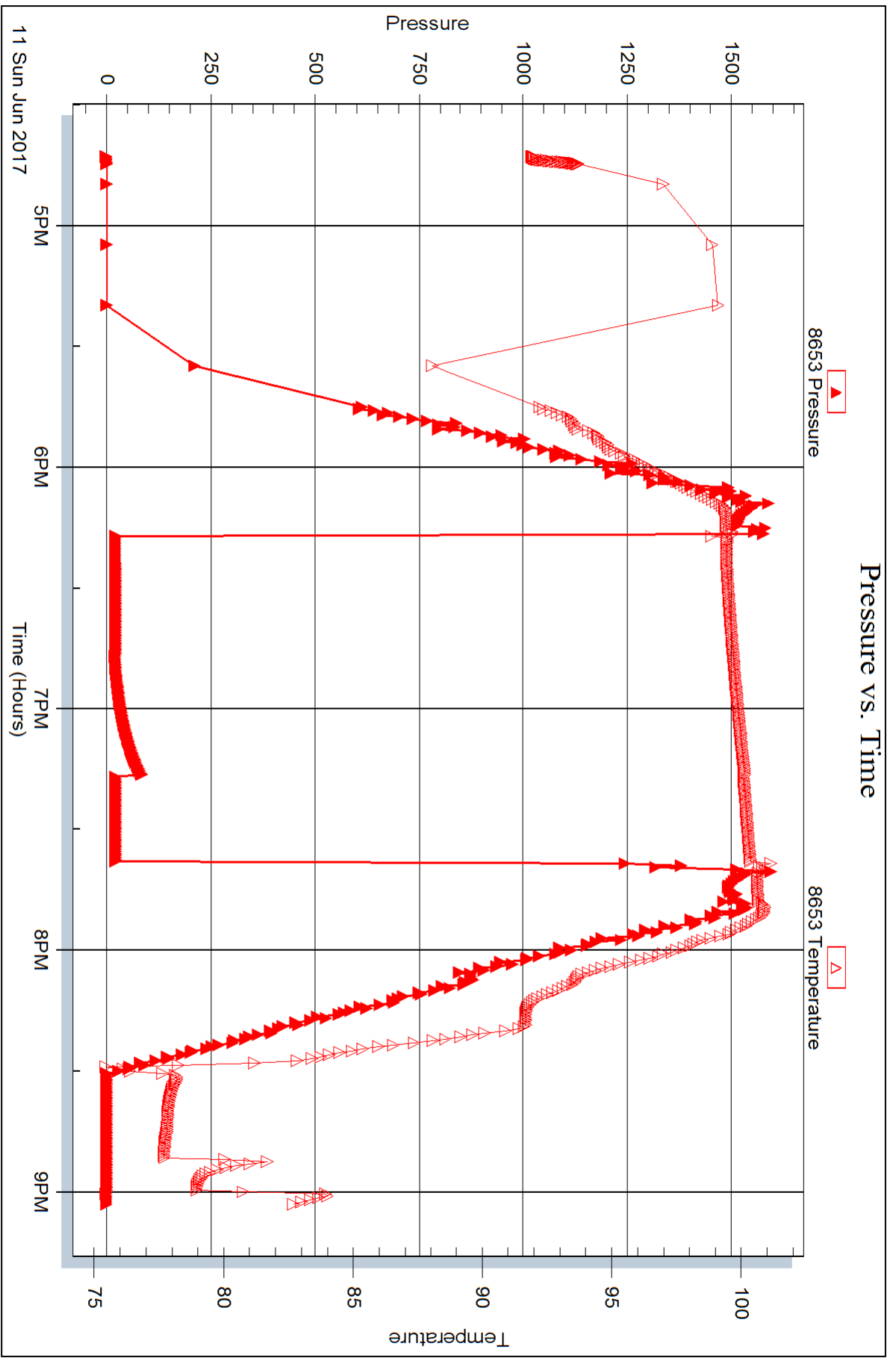
Serial #: 8653

Inside

John O. Farmer, Inc.

Morgenstern B #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Morgenstern B #1

13-16S-14W Barton,KS

Start Date: 2017.06.12 @ 06:47:02

End Date: 2017.06.12 @ 12:47:02

Job Ticket #: 63255 DST #: 3

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

Printed: 2017.06.13 @ 15:19:51

John O. Farmer, Inc.
13-16S-14W Barton,KS
Morgenstern B #1
DST # 3
LKC "H-J"
2017.06.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.
PO Box 352
Russell, KS 67665
ATTN: Austin Klaus

13-16S-14W Barton, KS
Morgenstern B #1
Job Ticket: 63255 **DST#: 3**
Test Start: 2017.06.12 @ 06:47:02

GENERAL INFORMATION:

Formation: **LKC "H-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:32
Time Test Ended: 12:47:02
Interval: **3250.00 ft (KB) To 3310.00 ft (KB) (TVD)**
Total Depth: 3310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1914.00 ft (KB)
1906.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 65

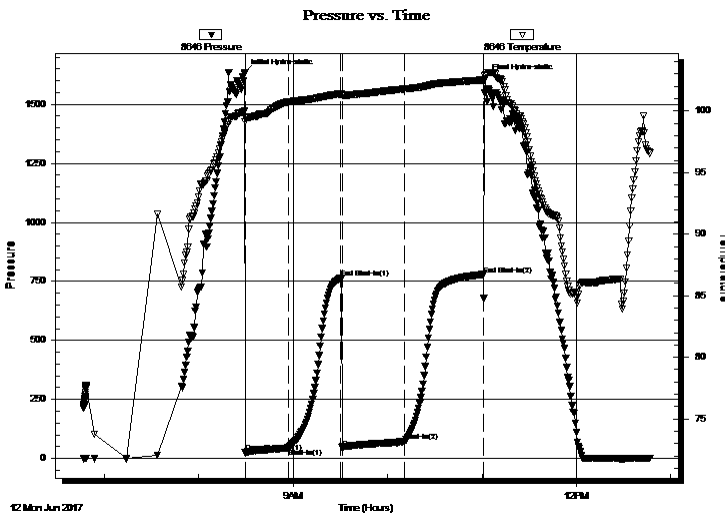
Serial #: 8646

Outside

Press@RunDepth: 71.85 psig @ 3251.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.12 End Date: 2017.06.12 Last Calib.: 2017.06.12
Start Time: 06:47:03 End Time: 12:47:02 Time On Btm: 2017.06.12 @ 08:29:22
Time Off Btm: 2017.06.12 @ 11:02:02

TEST COMMENT: 30- IF- Slowly built to 8"
30- IS- No blow
45- FF- BOB 18 mins
45- FSI- No blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1631.99 | 99.98 | Initial Hydro-static |
| 1 | 24.88 | 99.13 | Open To Flow (1) |
| 28 | 44.63 | 100.74 | Shut-In(1) |
| 61 | 763.91 | 101.38 | End Shut-In(1) |
| 62 | 45.06 | 101.27 | Open To Flow (2) |
| 102 | 71.85 | 101.79 | Shut-In(2) |
| 152 | 779.20 | 102.52 | End Shut-In(2) |
| 153 | 1609.39 | 102.95 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 129.00 | OCM, 10%O 90%M | 0.95 |
| 0.00 | 180' GIP | 0.00 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63255

DST#: 3

ATTN: Austin Klaus

Test Start: 2017.06.12 @ 06:47:02

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:32

Time Test Ended: 12:47:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 65

Interval: 3250.00 ft (KB) To 3310.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653 Inside

Press@RunDepth: psig @ 3251.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.12 End Date: 2017.06.12

Last Calib.: 2017.06.12

Start Time: 06:47:55 End Time: 12:47:54

Time On Btm:

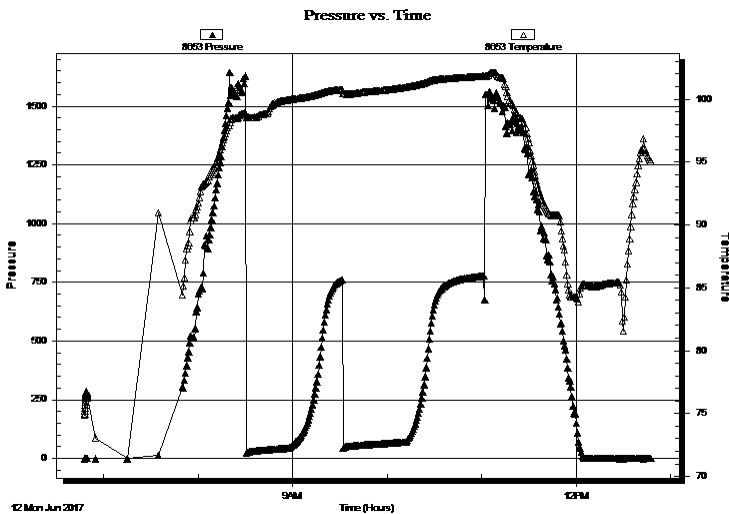
Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 8"

30- IS- No blow

45- FF- BOB 18 mins

45- FSI- No blow



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 129.00 | OCM, 10%O 90%M | 0.95 |
| 0.00 | 180' GIP | 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

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63255

DST#: 3

ATTN: Austin Klaus

Test Start: 2017.06.12 @ 06:47:02

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2943.00 ft | Diameter: 3.82 inches | Volume: 41.72 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 309.00 ft | Diameter: 2.75 inches | Volume: 2.27 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 43.99 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 22.00 ft | | | String Weight: Initial 49000.00 lb |
| Depth to Top Packer: | 3250.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 60.00 ft | | | |
| Tool Length: | 80.00 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 | | | 3231.00 | |
| Shut In Tool | 5.00 | | | 3236.00 | |
| Hydraulic tool | 5.00 | | | 3241.00 | |
| Packer | 5.00 | | | 3246.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3250.00 | |
| Stubb | 1.00 | | | 3251.00 | |
| Recorder | 0.00 | 8653 | Inside | 3251.00 | |
| Recorder | 0.00 | 8646 | Outside | 3251.00 | |
| Perforations | 23.00 | | | 3274.00 | |
| Change Over Sub | 1.00 | | | 3275.00 | |
| Drill Pipe | 31.00 | | | 3306.00 | |
| Change Over Sub | 1.00 | | | 3307.00 | |
| Bullnose | 3.00 | | | 3310.00 | 60.00 Bottom Packers & Anchor |

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

13-16S-14W Barton,KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63255

DST#: 3

ATTN: Austin Klaus

Test Start: 2017.06.12 @ 06:47:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------|---------------|
| 129.00 | OCM, 10%O 90%M | 0.948 |
| 0.00 | 180' GIP | 0.000 |

Total Length: 129.00 ft Total Volume: 0.948 bbl

Num Fluid Samples: 0

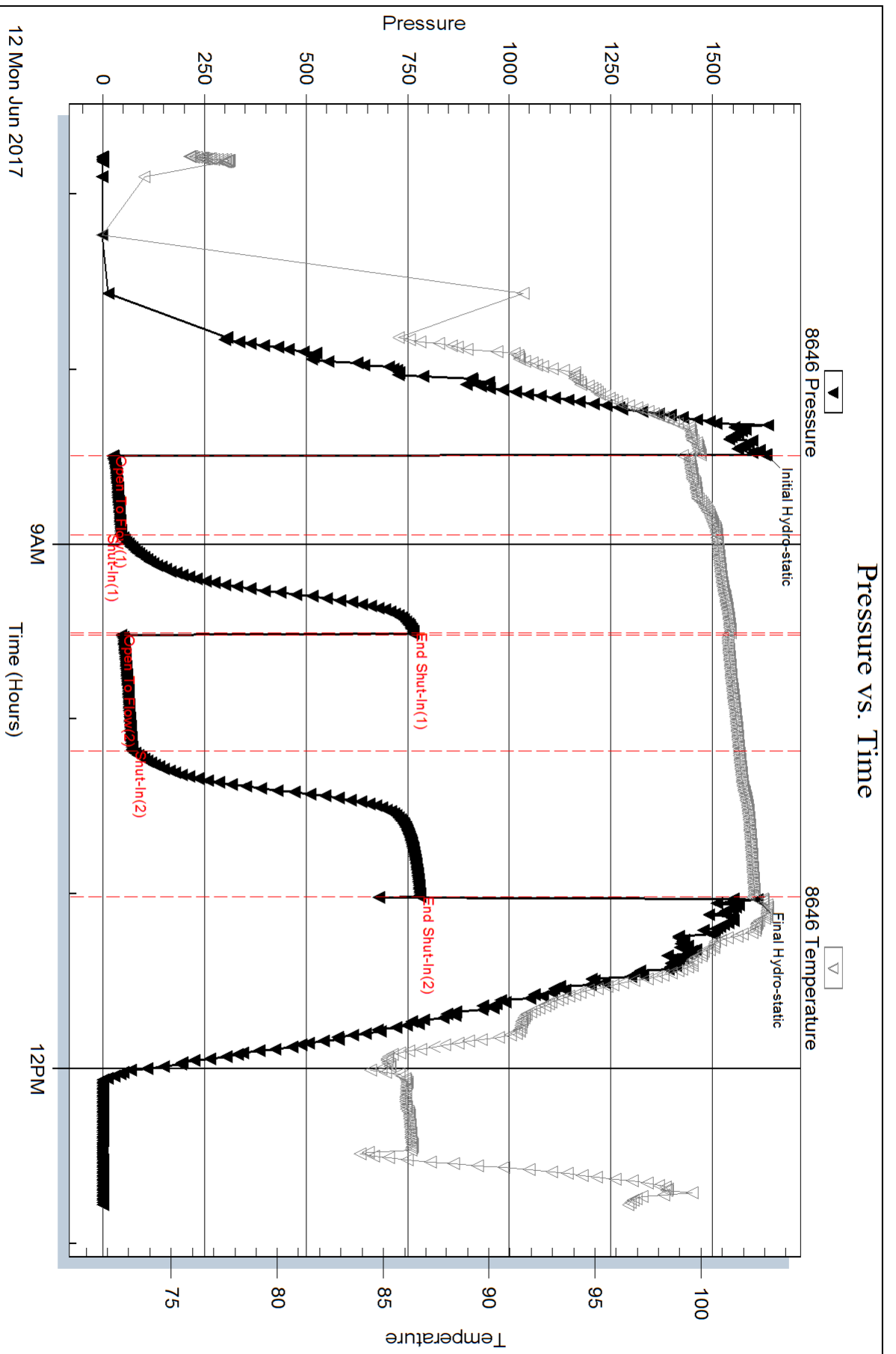
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



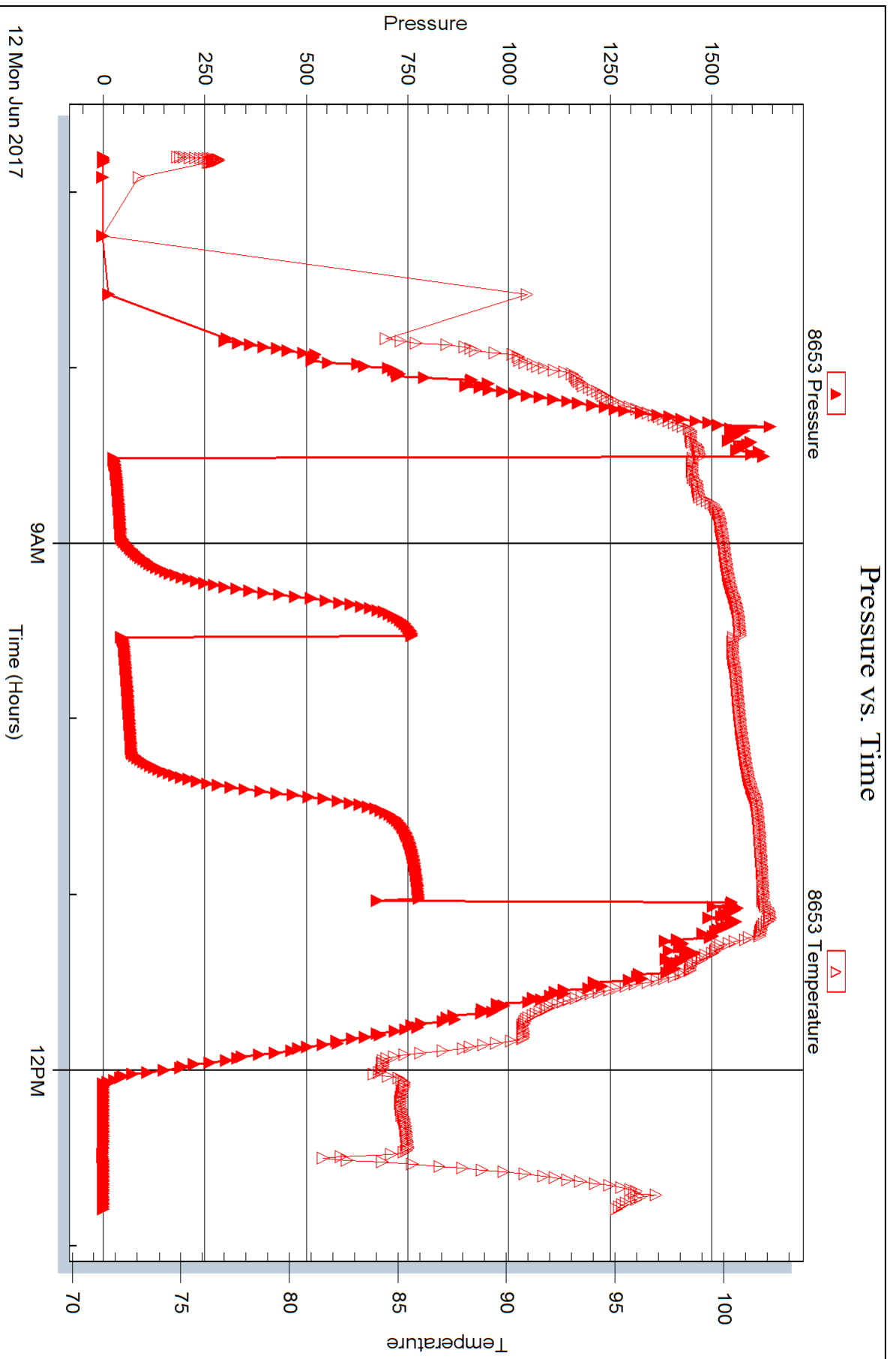
Serial #: 8653

Inside

John O. Farmer, Inc.

Morgenstern B#1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63255

Printed: 2017.06.13 @ 15:19:52



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Morgenstern B #1

13-16S-14W Barton,KS

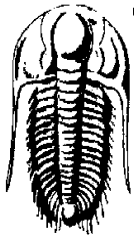
Start Date: 2017.06.13 @ 02:30:54

End Date: 2017.06.13 @ 09:31:14

Job Ticket #: 63256 DST #: 4

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

Printed: 2017.06.13 @ 15:19:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63256

DST#: 4

ATTN: Austin Klaus

Test Start: 2017.06.13 @ 02:30:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:34

Time Test Ended: 09:31:14

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 65

Interval: 3316.00 ft (KB) To 3370.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8646

Outside

Press@RunDepth: 453.28 psig @ 3317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.13

End Date:

2017.06.13

Last Calib.:

2017.06.13

Start Time: 02:30:55

End Time:

09:31:14

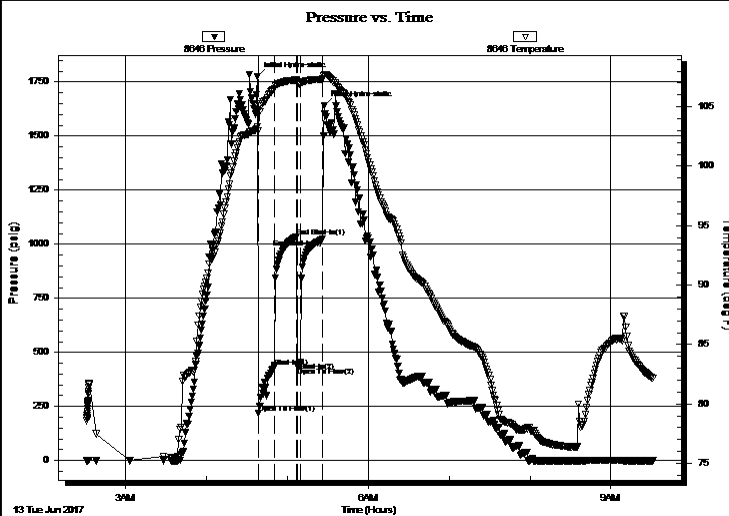
Time On Btm:

2017.06.13 @ 04:37:44

Time Off Btm:

2017.06.13 @ 05:27:34

TEST COMMENT: 13- IF- BOB 10 secs
15- IS- No blow
05- FF- BOB 30 secs
15- FSI- No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1775.25 | 103.29 | Initial Hydro-static |
| 1 | 219.40 | 102.99 | Open To Flow (1) |
| 13 | 430.30 | 106.52 | Shut-In(1) |
| 29 | 1035.02 | 107.25 | End Shut-In(1) |
| 30 | 434.37 | 106.95 | Open To Flow (2) |
| 32 | 453.28 | 106.85 | Shut-In(2) |
| 49 | 1023.25 | 107.32 | End Shut-In(2) |
| 50 | 1640.63 | 107.72 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 815.00 | GMCO, 25%G 65%O 10%M | 9.44 |
| 220.00 | OCM, 20%O 80%M | 3.12 |
| 0.00 | 95' GIP | 0.00 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.
 PO Box 352
 Russell, KS 67665
 ATTN: Austin Klaus

13-16S-14W Barton,KS

Morgenstern B #1

Job Ticket: 63256 **DST#: 4**
 Test Start: 2017.06.13 @ 02:30:54

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 04:38:34
 Tester: Brannan Lonsdale
 Time Test Ended: 09:31:14
 Unit No: 65
Interval: 3316.00 ft (KB) To 3370.00 ft (KB) (TVD)
 Reference Elevations: 1914.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD) 1906.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

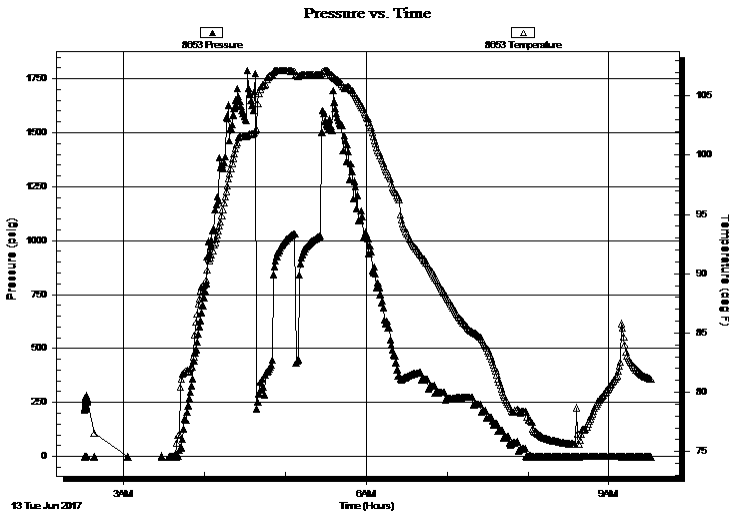
Serial #: 8653

Inside

Press@RunDepth: psig @ 3317.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.13 End Date: 2017.06.13 Last Calib.: 2017.06.13
 Start Time: 02:30:50 End Time: 09:31:09 Time On Btm:
 Time Off Btm:

TEST COMMENT: 13- IF- BOB 10 secs
 15- ISL- No blow
 05- FF- BOB 30 secs
 15- FSL- No blow

PRESSURE SUMMARY



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

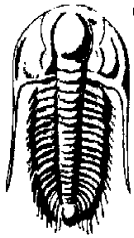
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 815.00 | GMCO, 25%G 65%O 10%M | 9.44 |
| 220.00 | OCM, 20%O 80%M | 3.12 |
| 0.00 | 95' GIP | 0.00 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

ATTN: Austin Klaus

Job Ticket: 63256

DST#: 4

Test Start: 2017.06.13 @ 02:30:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:34

Time Test Ended: 09:31:14

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 65

Interval: 3316.00 ft (KB) To 3370.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8737 Below (Straddle)

Press@RunDepth: psig @ 3372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.13

End Date:

2017.06.13

Last Calib.:

2017.06.13

Start Time: 02:30:24

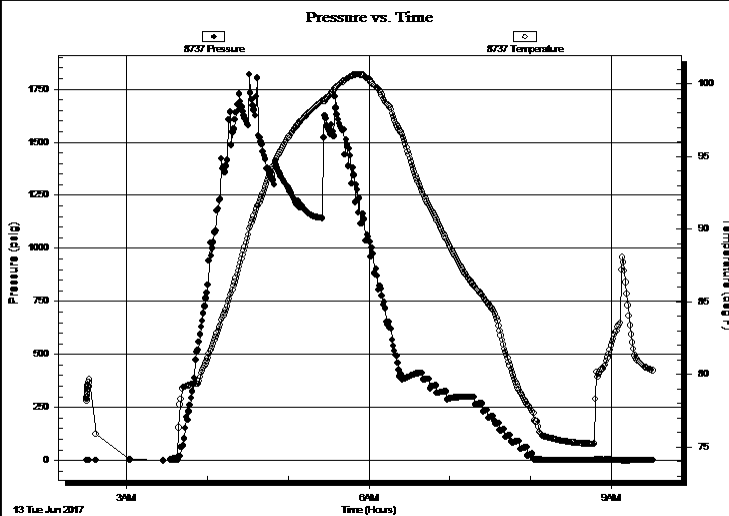
End Time:

09:30:43

Time On Btm:

Time Off Btm:

TEST COMMENT: 13- IF- BOB 10 secs
15- IS- No blow
05- FF- BOB 30 secs
15- FS- No blow



PRESSURE SUMMARY

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

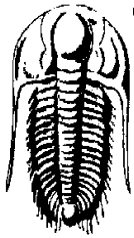
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 815.00 | GMCO, 25%G 65%O 10%M | 9.44 |
| 220.00 | OCM, 20%O 80%M | 3.12 |
| 0.00 | 95' GIP | 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

John O. Farmer, Inc.

13-16S-14W Barton, KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63256

DST#: 4

ATTN: Austin Klaus

Test Start: 2017.06.13 @ 02:30:54

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3004.00 ft | Diameter: 3.82 inches | Volume: 42.58 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 309.00 ft | Diameter: 2.75 inches | Volume: 2.27 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 70000.00 lb |
| | | | <u>Total Volume: 44.85 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 17.00 ft | | | String Weight: Initial 51000.00 lb |
| Depth to Top Packer: | 3316.00 ft | | | Final 55000.00 lb |
| Depth to Bottom Packer: | 3370.00 ft | | | |
| Interval between Packers: | 54.00 ft | | | |
| Tool Length: | 112.00 ft | | | |
| Number of Packers: | 3 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|---------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3297.00 | |
| Shut In Tool | 5.00 | | | 3302.00 | |
| Hydraulic tool | 5.00 | | | 3307.00 | |
| Packer | 5.00 | | | 3312.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3316.00 | |
| Stubb | 1.00 | | | 3317.00 | |
| Recorder | 0.00 | 8653 | Inside | 3317.00 | |
| Recorder | 0.00 | 8646 | Outside | 3317.00 | |
| Perforations | 6.00 | | | 3323.00 | |
| Change Over Sub | 1.00 | | | 3324.00 | |
| Drill Pipe | 31.00 | | | 3355.00 | |
| Change Over Sub | 1.00 | | | 3356.00 | |
| Perforations | 10.00 | | | 3366.00 | |
| Blank Off Sub | 1.00 | | | 3367.00 | |
| Blank Spacing | 3.00 | | | 3370.00 | 54.00 Tool Interval |
| Packer | 1.00 | | | 3371.00 | |
| Stubb | 1.00 | | | 3372.00 | |
| Recorder | 0.00 | 8737 | Below | 3372.00 | |
| Change Over Sub | 1.00 | | | 3373.00 | |
| Drill Pipe | 31.00 | | | 3404.00 | |
| Change Over Sub | 1.00 | | | 3405.00 | |
| Bullnose | 3.00 | | | 3408.00 | 38.00 Bottom Packers & Anchor |
| Total Tool Length: | 112.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

13-16S-14W Barton,KS

PO Box 352
Russell, KS 67665

Morgenstern B #1

Job Ticket: 63256

DST#: 4

ATTN: Austin Klaus

Test Start: 2017.06.13 @ 02:30:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 815.00 | GMCO, 25%G 65%O 10%M | 9.443 |
| 220.00 | OCM, 20%O 80%M | 3.119 |
| 0.00 | 95' GIP | 0.000 |

Total Length: 1035.00 ft Total Volume: 12.562 bbl

Num Fluid Samples: 0

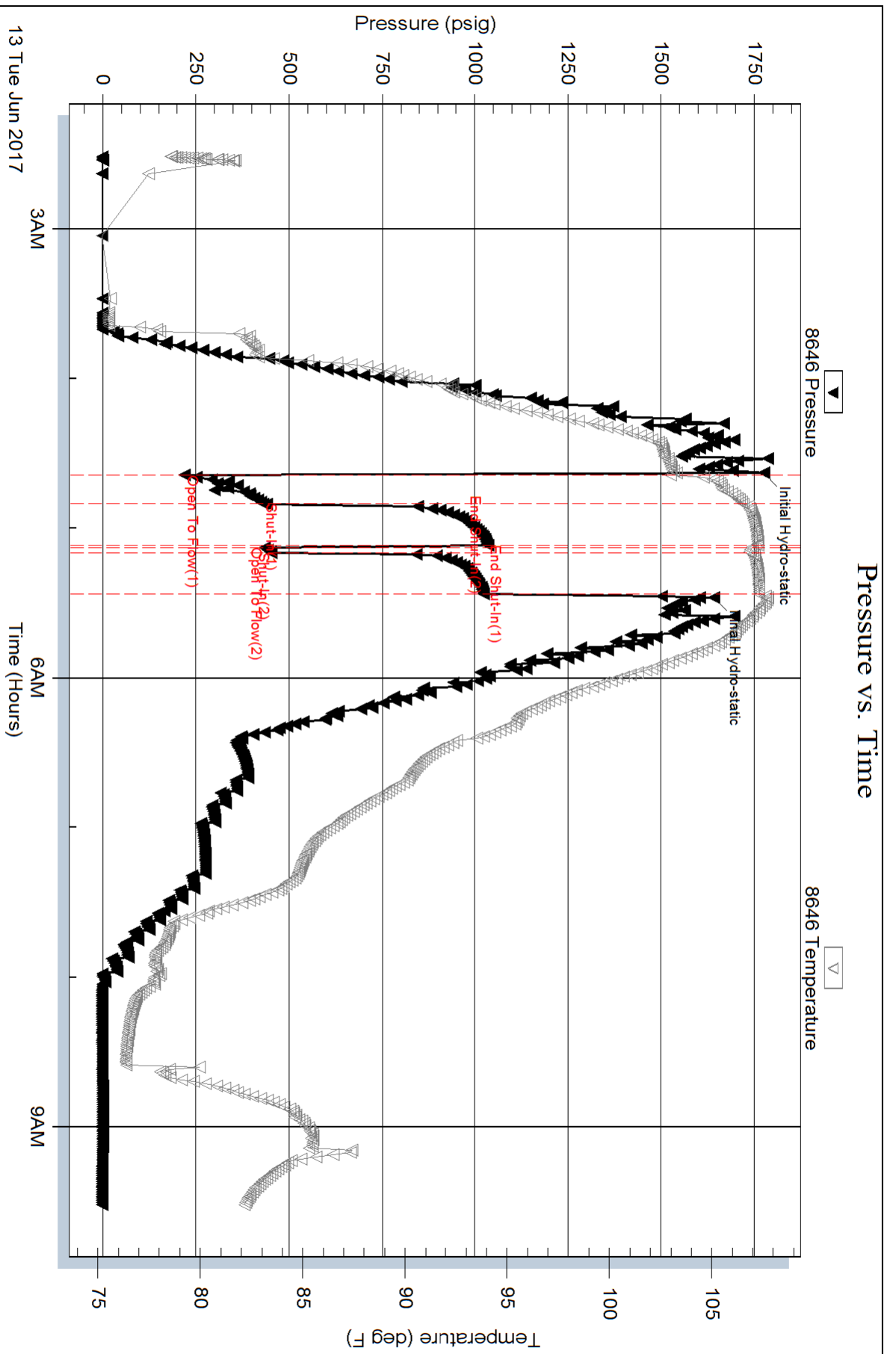
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



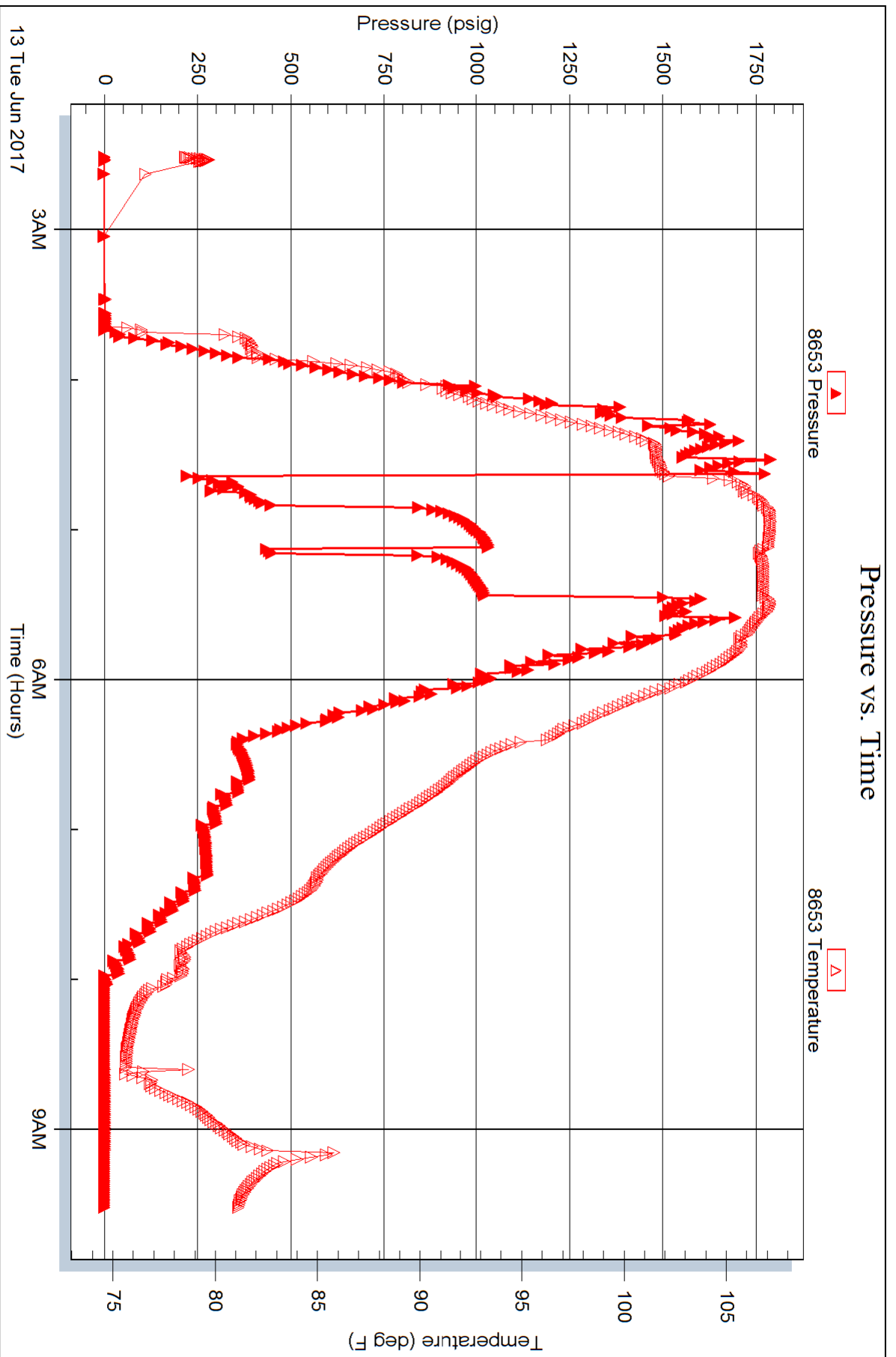
Serial #: 8653

Inside

John O. Farmer, Inc.

Morgenstern B#1

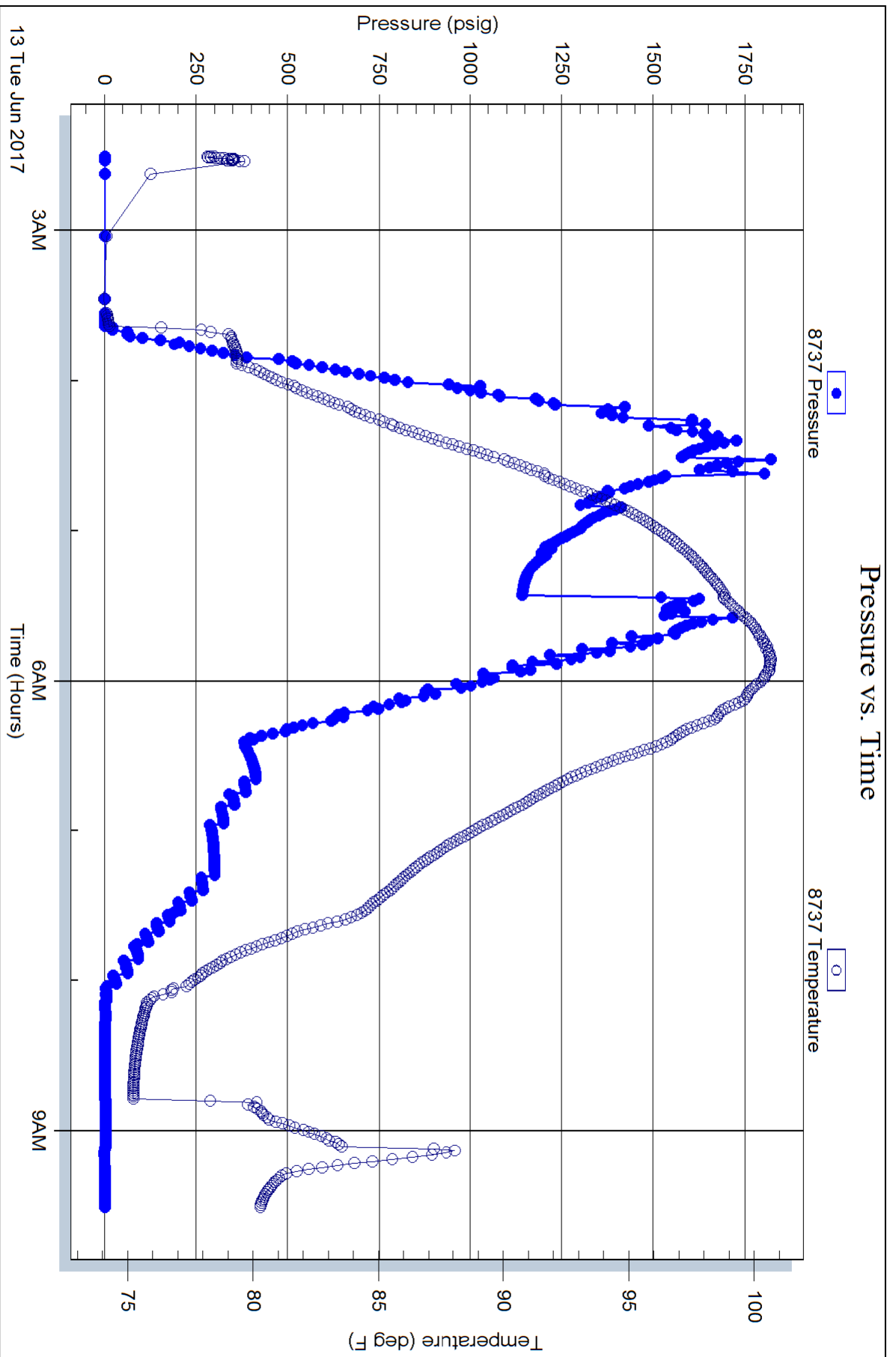
DST Test Number: 4

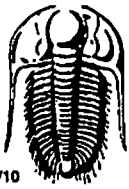


Triobite Testing, Inc

Ref. No: 63256

Printed: 2017.06.13 @ 15:19:25





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63253

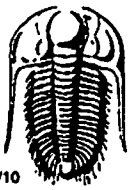
Well Name & No. Morgenstern B #1 Test No. 1 Date 6/11/17
 Company John O. Farmer, Inc. Elevation 1914 KB 1906GL
 Address 370 W. Wichita Ave. PO Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klans Rig Discovery #2
 Location: Sec. 13 Twp. 16 S Rge. 14 W Co. Burton State KS

Interval Tested 3116-3164 Zone Tested LKC "A-C"
 Anchor Length 48' Drill Pipe Run 2819 Mud Wt. 8.8
 Top Packer Depth 3111 Drill Collars Run --- Vis 49
 Bottom Packer Depth 3116 Wt. Pipe Run 309 WL 7.4
 Total Depth 3164 Chlorides 4,600 ppm System LCM 2#
 Blow Description IF - Weak blow built very slowly to 2 1/2"
ISF - No blow
PF - Weak blow built very slowly to 1"
FSF - No blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|---------------------------|------|------|--------|------|
| <u>30</u> | <u>M w/ few oil spots</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 30' BHT 103° Gravity --- API RW --- @ --- ° F Chlorides --- ppm
 (A) Initial Hydrostatic 1546 Test 1050 T-On Location 0210
 (B) First Initial Flow 25 Jars --- T-Started 0230
 (C) First Final Flow 38 Safety Joint --- T-Open 0443
 (D) Initial Shut-In 142 Circ Sub --- T-Pulled 0743
 (E) Second Initial Flow 32 Hourly Standby --- T-Out 0917
 (F) Second Final Flow 42 Mileage 80 RT 60 Comments ---
 (G) Final Shut-In 166 Sampler ---
 (H) Final Hydrostatic 1513 Straddle ---
 Shale Packer ---
 Ruined Shale Packer ---
 Ruined Packer ---
 Extra Packer ---
 Extra Copies ---
 Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Extra Recorder ---
 Day Standby ---
 Accessibility ---
 Sub Total 1110 Sub Total 0
 Total 1110 MP/DST Disc't ---

Approved By _____ Our Representative Brennan Lonsdale
 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. 63254

Well Name & No. Morgenstern B #1 Test No. 2 Date 6/14/17
 Company John O. Farmer, Inc. Elevation 1914 KB 1906 GL
 Address 370 W. Wichita Ave PO Box 352 Russell, KS 67665
 Co. Rep / Geo. Austen Klaus Rig Discovery #2
 Location: Sec. 13 Twp. 16 S Rge. 14 W Co. Barber State KS

Interval Tested 3170-3220 Zone Tested LKC "E-G"
 Anchor Length 50' Drill Pipe Run 2850 Mud Wt. 9.0
 Top Packer Depth 3165 Drill Collars Run 3095 Vis 52
 Bottom Packer Depth 3170 Wt. Pipe Run _____ WL 7.4
 Total Depth 3220 Chlorides 5,700 ppm System LCM 2#
 Blow Description IF - Weak surface blow died in 10 mins
ISI - No blow
FF - No blow Pulled tool

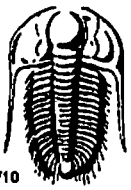
| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|----------|------|------|--------|------|
| <u>3</u> | <u>M</u> | | | | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas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

Rec Total 3' BHT 101° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>1583</u> | <input checked="" type="checkbox"/> Test <u>1050</u> | T-On Location <u>1635</u> |
| (B) First Initial Flow <u>21</u> | <input type="checkbox"/> Jars _____ | T-Started <u>1642</u> |
| (C) First Final Flow <u>21</u> | <input type="checkbox"/> Safety Joint _____ | T-Open <u>1816</u> |
| (D) Initial Shut-In <u>86</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>1736</u> |
| (E) Second Initial Flow <u>22</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>2102</u> |
| (F) Second Final Flow <u>22</u> | <input checked="" type="checkbox"/> Mileage <u>80 RT</u> 60 | Comments _____ |
| (G) Final Shut-In _____ | <input type="checkbox"/> Sampler _____ | _____ |
| (H) Final Hydrostatic <u>1543</u> | <input type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Ruined Packer _____ |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Final Flow <u>20</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u> |
| Final Shut-In _____ | <input type="checkbox"/> Day Standby _____ | Total <u>1110</u> |
| | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>1110</u> | |

Approved By _____ Our Representative Brannan LeasDale

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. 63255

Well Name & No. Morgenstern B #1 Test No. 3 Date 6/12/17
 Company John O. Farmer, Inc. Elevation 1914 KB 1906 GL
 Address 370 W. Wochita Ave. PO Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 13 Twp. 16 S Rge. 14 W Co. Barber State KS

Interval Tested 3250-3310 Zone Tested LKC "H-J"
 Anchor Length 60' Drill Pipe Run 2943 Mud Wt. 9.0
 Top Packer Depth 3245 Drill Collars Run — Vis 52
 Bottom Packer Depth 3250 Wt. Pipe Run 309 WL 7.4
 Total Depth 3310 Chlorides 5700 ppm System LCM 2nd

Blow Description IF - slowly built to 8"
FST - No blow
PF - BOB 18 mins
FST - No blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|-------------------------|------|------------|--------|------------|
| <u>129'</u> | <u>OCM</u> | | <u>10%</u> | | <u>90%</u> |
| Rec | Feet of <u>100' CIP</u> | %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 |

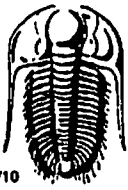
Rec Total 129' BHT 103° Gravity 2.8 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1632 Test 1050 T-On Location 0635
 (B) First Initial Flow 25 Jars — T-Started 0647
 (C) First Final Flow 45 Safety Joint — T-Open 0830
 (D) Initial Shut-In 764 Circ Sub — T-Pulled 1100
 (E) Second Initial Flow 45 Hourly Standby — T-Out 1247
 (F) Second Final Flow 72 Mileage 80 RT 60 Comments —
 (G) Final Shut-In 779 Sampler —
 (H) Final Hydrostatic 1609 Straddle —
 Ruined Shale Packer
 Shale Packer —
 Ruined Packer —
 Extra Packer —
 Extra Copies —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1110 MP/DST Disc't —

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 45

Approved By — Our Representative Brannan Lonsdale

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. 63256

Well Name & No. Morgenstern B #1 Test No. 4 Date 6/13/17
 Company John O. Farmer, Inc. Elevation 1914 KB 1906 GL
 Address 370 W. Wichita Ave. PO Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 13 Twp. 16 W Rge. 14 S Co. Barton State KS

Interval Tested 3316-3370 Zone Tested Arbuckle
 Anchor Length 54' Tail: 40' Drill Pipe Run 3004 Mud Wt. 9.0
 Top Packer Depth 3311-3316 Drill Collars Run — Vis 49
 Bottom Packer Depth 3370 Wt. Pipe Run 309 WL 8.0
 Total Depth 3410 Chlorides 9,800 ppm System LCM 1 #
 Blow Description IF-BOB 10secs
ISI-No Blow
PF-BOB 30secs
FSI-No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|----------------|-----------|-----------|-----------|-----------|
| <u>815</u> | <u>GMCO</u> | <u>25</u> | <u>65</u> | <u>10</u> | <u>10</u> |
| <u>220</u> | <u>OCM</u> | <u>—</u> | <u>20</u> | <u>—</u> | <u>80</u> |
| <u>—</u> | <u>95' GIP</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |
| <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |
| <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |

Rec Total 1035' BHT 107° Gravity 33 API RW — @ — °F Chlorides — ppm

| | | |
|-------------------------------------|---|---|
| (A) Initial Hydrostatic <u>1775</u> | <input checked="" type="checkbox"/> Test <u>1050</u> | T-On Location <u>0215</u> |
| (B) First Initial Flow <u>219</u> | <input type="checkbox"/> Jars <u>—</u> | T-Started <u>0230</u> |
| (C) First Final Flow <u>430</u> | <input type="checkbox"/> Safety Joint <u>—</u> | T-Open <u>0437</u> |
| (D) Initial Shut-In <u>1035</u> | <input type="checkbox"/> Circ Sub <u>—</u> | T-Pulled <u>0525</u> |
| (E) Second Initial Flow <u>434</u> | <input type="checkbox"/> Hourly Standby <u>—</u> | T-Out <u>0930</u> |
| (F) Second Final Flow <u>453</u> | <input checked="" type="checkbox"/> Mileage <u>80 RT</u> 60 | Comments <u>—</u> |
| (G) Final Shut-In <u>1023</u> | <input type="checkbox"/> Sampler <u>—</u> | <u>—</u> |
| (H) Final Hydrostatic <u>1641</u> | <input checked="" type="checkbox"/> Straddle <u>600</u> | <input type="checkbox"/> Ruined Shale Packer <u>—</u> |
| Initial Open <u>13</u> | <input type="checkbox"/> Shale Packer <u>—</u> | <input type="checkbox"/> Ruined Packer <u>—</u> |
| Initial Shut-In <u>15</u> | <input type="checkbox"/> Extra Packer <u>—</u> | <input type="checkbox"/> Extra Copies <u>—</u> |
| Final Flow <u>05</u> | <input type="checkbox"/> Extra Recorder <u>—</u> | Sub Total <u>0</u> |
| Final Shut-In <u>15</u> | <input type="checkbox"/> Day Standby <u>—</u> | Total <u>1710</u> |
| | <input type="checkbox"/> Accessibility <u>—</u> | MP/DST Disc't <u>—</u> |
| | Sub Total <u>1710</u> | |

Approved By _____ Our Representative Brannan Lonsdale

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