

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas Inc.**

PO Box 195  
Attica KS .67009

ATTN: Tim Pierce

**Culver #A3**

**4-31s-8w Harper,KS**

Start Date: 2014.12.08 @ 17:43:32

End Date: 2014.12.09 @ 00:03:32

Job Ticket #: 59730                      DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.12.12 @ 13:12:35

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

Culver #A3

DST # 1

Mississippi

2014.12.08



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R&B Oil & Gas Inc.

4-31s-8w Harper, KS

PO Box 195  
Attica KS .67009

Culver #A3

Job Ticket: 59730

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.12.08 @ 17:43:32

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:02

Time Test Ended: 00:03:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4402.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 1673.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

1663.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GRVCF: 10.00 ft

Serial #: 8352

Outside

Press@RunDepth: 437.56 psig @ 4403.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.08 End Date: 2014.12.09

Last Calib.: 2014.12.08

Start Time: 17:43:37 End Time: 00:03:31

Time On Btm: 2014.12.08 @ 19:36:32

Time Off Btm: 2014.12.08 @ 21:45:47

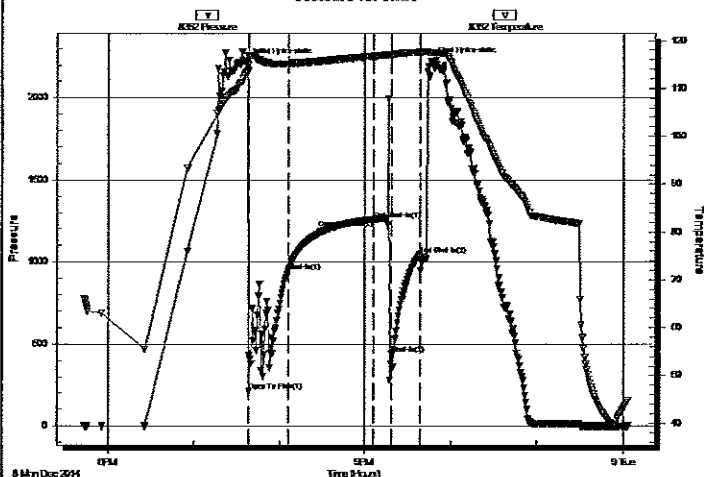
TEST COMMENT: IF: Weak surging blow. (2" decreasing)

IS: No blow.

FF: No blow. Flushed tool 4 mins. in to FFP. Fair surge. No blow.

FS: No blow. Comment: 10 ft. of hard fill on btm. Slid tool 6 - 8 ft.

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 2217.53         | 113.44       | Initial Hydro-static |
| 2          | 212.54          | 113.88       | Open To Flow (1)     |
| 30         | 942.09          | 115.29       | Shut-in(1)           |
| 90         | 1257.67         | 116.74       | End Shut-in(1)       |
| 90         | 1257.77         | 116.75       | Open To Flow (2)     |
| 103        | 437.56          | 116.97       | Shut-in(2)           |
| 122        | 1045.43         | 117.58       | End Shut-in(2)       |
| 130        | 2220.79         | 117.46       | Final Hydro-static   |

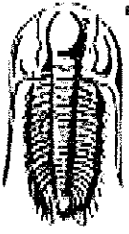
## Recovery

| Length (ft) | Description                       | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 70.00       | Gritty mud Oil show @ top of tool | 0.34         |
|             |                                   |              |
|             |                                   |              |
|             |                                   |              |
|             |                                   |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195  
Attlica KS .67009

Culver #A3

Job Ticket: 59730

DST#: 1

ATTN: Tim Ferce

Test Start: 2014.12.08 @ 17:43:32

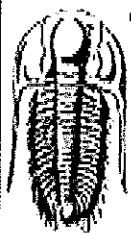
### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4274.00 ft | Diameter: 3.80 inches | Volume: 59.95 bbl              | Tool Weight: 2400.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 24000.00 lb  |
| Drill Collar:             | Length: 120.00 ft  | Diameter: 2.25 inches | Volume: 0.59 bbl               | Weight to Pull Loose: 84000.00 lb  |
|                           |                    |                       | <b>Total Volume: 60.54 bbl</b> | Tool Chased 7.00 ft                |
| Drill Pipe Above KB:      | 20.00 ft           |                       |                                | String Weight: Initial 65000.00 lb |
| Depth to Top Packer:      | 4402.00 ft         |                       |                                | Final 65000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 18.00 ft           |                       |                                |                                    |
| Tool Length:              | 46.00 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        |            |          | 4375.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4380.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4385.00    |                               |
| Jars             | 5.00        |            |          | 4390.00    |                               |
| Safety Joint     | 3.00        |            |          | 4393.00    |                               |
| Packer           | 4.00        |            |          | 4397.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4402.00    |                               |
| Stubb            | 1.00        |            |          | 4403.00    |                               |
| Recorder         | 0.00        | 8352       | Outside  | 4403.00    |                               |
| Recorder         | 0.00        | 8370       | Inside   | 4403.00    |                               |
| Perforations     | 12.00       |            |          | 4415.00    |                               |
| Bullnose         | 5.00        |            |          | 4420.00    | 18.00 Bottom Packers & Anchor |

**Total Tool Length: 46.00**



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195  
Attica KS .67009

**Culver #A3**

Job Ticket: 59730

**DST#: 1**

ATTN: Tim Pierce

Test Start: 2014.12.08 @ 17:43:32

## 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:

5500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                       | Volume<br>bbl |
|--------------|-----------------------------------|---------------|
| 70.00        | Gritty mud Oil show @ top of tool | 0.344         |

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

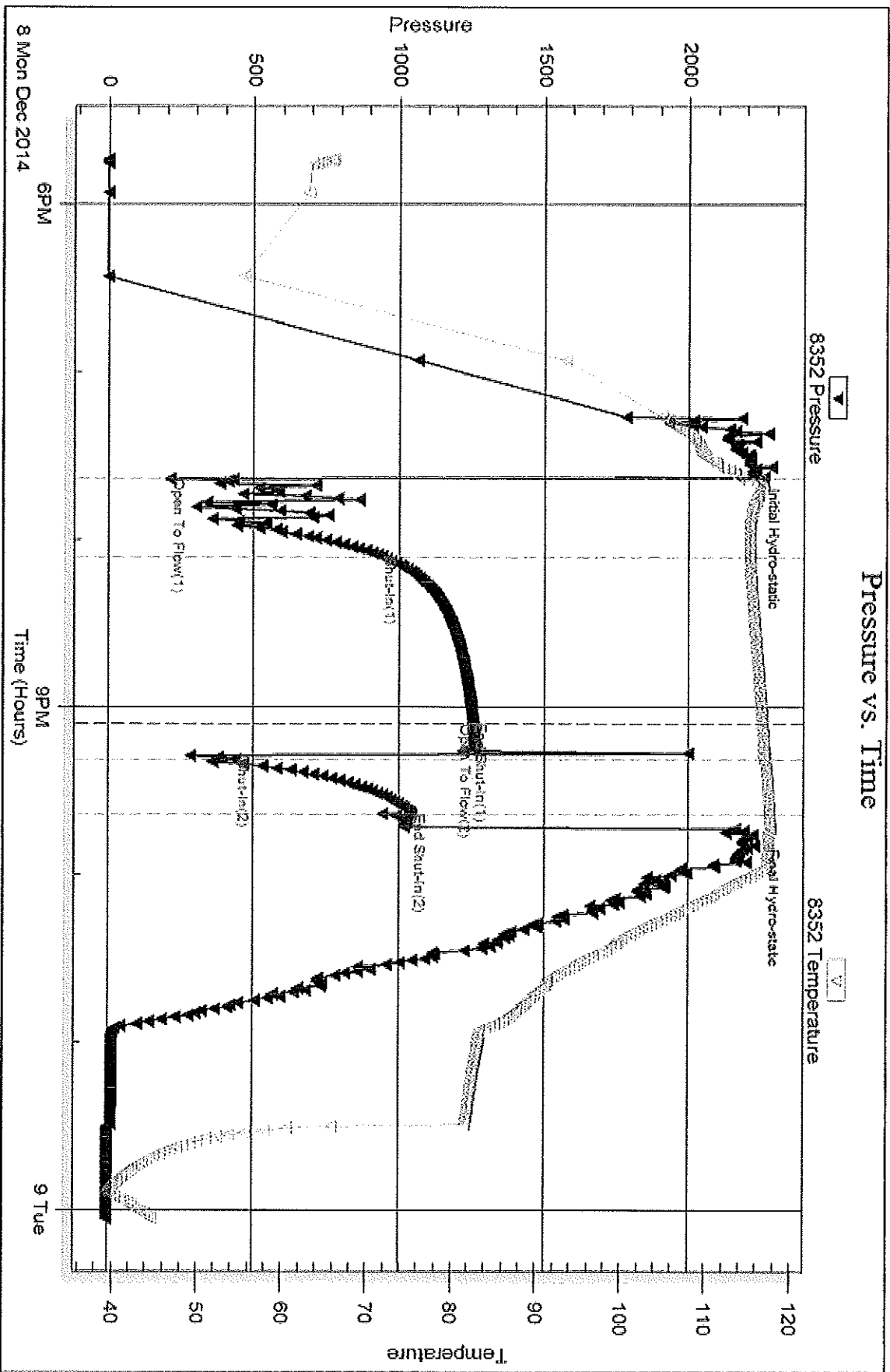
Outside

R&B Oil & Gas Inc.

Oliver #A3

Ost Test Number: 1

### Pressure vs. Time



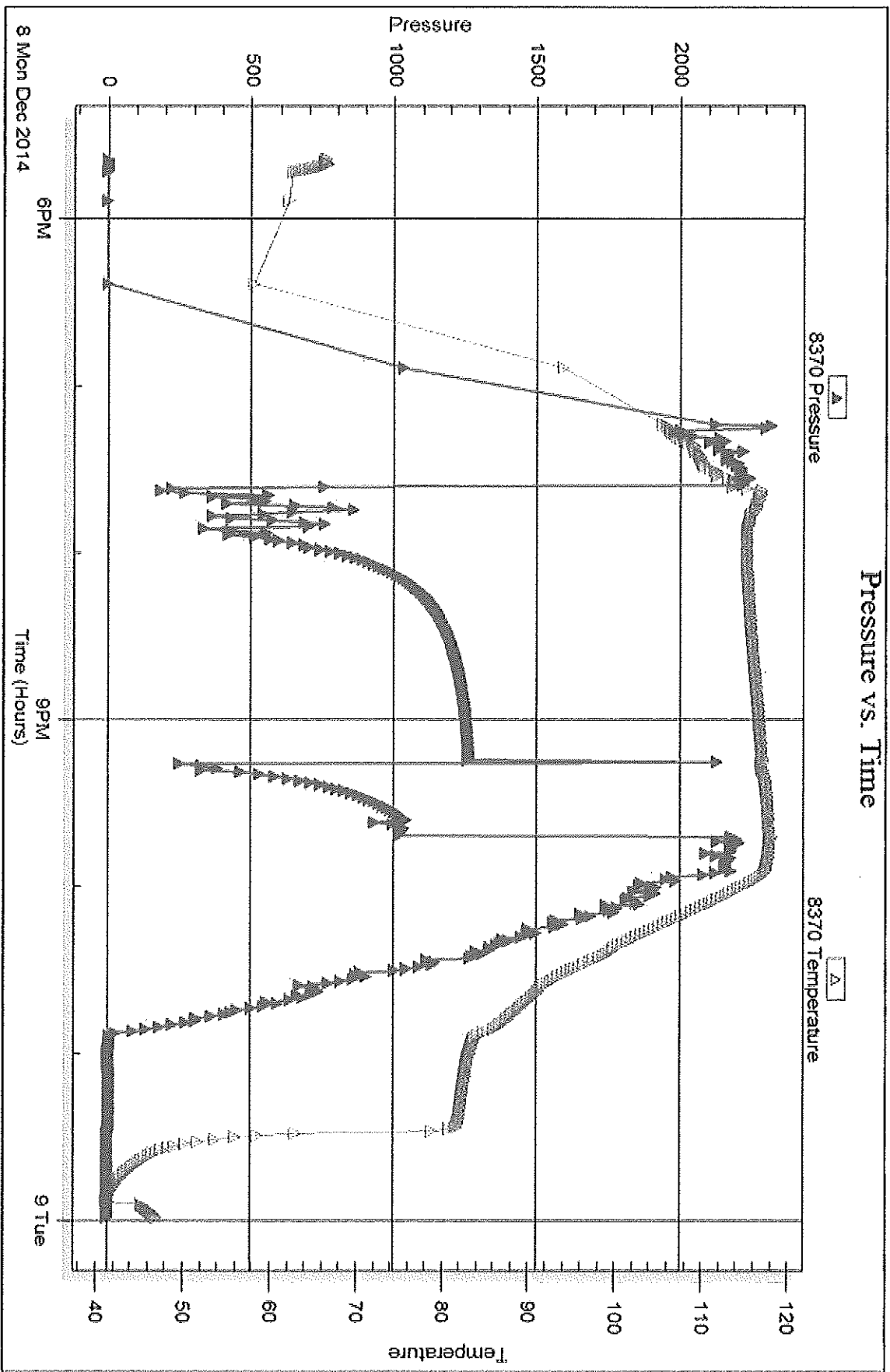
Serial #: 8370

Inside

R&B Oil & Gas Inc.

Client #A3

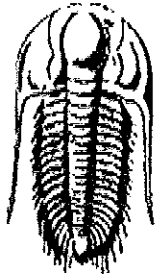
DST Test Number: 1



Tiobate Testing, Inc

Ref. No: 59730

Printed: 2014:12:12 @ 13:12:36



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas Inc.**

PO Box 195  
Attica KS .67009

ATTN: Tim Pierce

**Culver #A3**

**4-31s-8w Harper,KS**

Start Date: 2014.12.09 @ 06:50:41

End Date: 2014.12.09 @ 14:41:26

Job Ticket #: 59731                      DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.12.12 @ 13:11:24

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

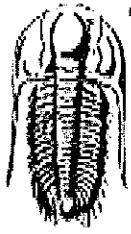
Culver #A3

DST # 2

Mississippi

2014.12.09





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195  
Attica KS .67009

Culver #A3

Job Ticket: 59731

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.12.09 @ 06:50:41

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 09:36:11

Time Test Ended: 14:41:26

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Gary Pevoteaux**

Unit No: **80**

Interval: **4403.00 ft (KB) To 4425.00 ft (KB) (TVD)**

Total Depth: **4425.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1673.00 ft (KB)**

**1663.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8352**

Outside

Press@RunDepth: **61.81 psig @ 4404.00 ft (KB)**

Start Date: **2014.12.09**

End Date:

2014.12.09

Start Time: **06:50:46**

End Time:

14:41:25

Capacity: **8000.00 psig**

Last Calib.: **2014.12.09**

Time On Btm: **2014.12.09 @ 09:34:26**

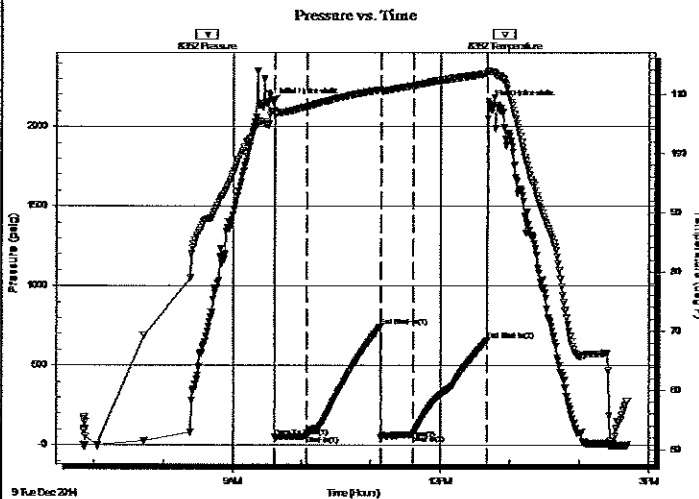
Time Off Btm: **2014.12.09 @ 12:41:56**

TEST COMMENT: **IF:Fair to strong blow . B.O.B. in 18 mins.**

**IS:Weak blow . 1/2 - 1 1/4".**

**FF:Strong blow . B.O.B. in 8 mins.**

**FSI:Weak blow . 12".**



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2155.42         | 107.18       | Initial Hydro-static |
| 2           | 47.98           | 106.72       | Open To Flow (1)     |
| 30          | 54.86           | 107.90       | Shut-in(1)           |
| 94          | 742.78          | 110.80       | End Shut-in(1)       |
| 94          | 40.96           | 110.58       | Open To Flow (2)     |
| 122         | 61.81           | 111.46       | Shut-in(2)           |
| 186         | 657.34          | 113.45       | End Shut-in(2)       |
| 188         | 2142.13         | 113.86       | Final Hydro-static   |

## Recovery

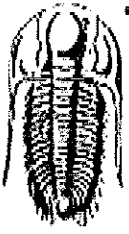
| Length (ft) | Description                           | Volume (bbl) |
|-------------|---------------------------------------|--------------|
| 80.00       | GOCM 7%g 7%o 86%w                     | 0.39         |
| 0.00        | 355 ft.of GIP/Clean oil @ top of tool | 0.00         |
|             |                                       |              |
|             |                                       |              |
|             |                                       |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195  
Attica KS .67009

Culver #A3

Job Ticket: 59731

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.12.09 @ 06:50:41

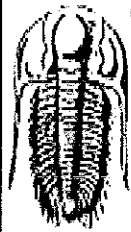
### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4275.00 ft | Diameter: 3.80 inches | Volume: 59.97 bbl              | Tool Weight: 2400.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 24000.00 lb  |
| Drill Collar:             | Length: 120.00 ft  | Diameter: 2.25 inches | Volume: 0.59 bbl               | Weight to Pull Loose: 79000.00 lb  |
|                           |                    |                       | <u>Total Volume: 60.56 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 20.00 ft           |                       |                                | String Weight: Initial 66000.00 lb |
| Depth to Top Packer:      | 4403.00 ft         |                       |                                | Final 67000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 22.00 ft           |                       |                                |                                    |
| Tool Length:              | 50.00 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        |            |          | 4376.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4381.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4386.00    |                               |
| Jars             | 5.00        |            |          | 4391.00    |                               |
| Safety Joint     | 3.00        |            |          | 4394.00    |                               |
| Packer           | 4.00        |            |          | 4398.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4403.00    |                               |
| Stubb            | 1.00        |            |          | 4404.00    |                               |
| Recorder         | 0.00        | 8352       | Outside  | 4404.00    |                               |
| Recorder         | 0.00        | 8370       | Inside   | 4404.00    |                               |
| Perforations     | 16.00       |            |          | 4420.00    |                               |
| Bullnose         | 5.00        |            |          | 4425.00    | 22.00 Bottom Packers & Anchor |

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R&B Oil & Gas Inc.

**4-31s-8w Harper,KS**

PO Box 195  
Attica KS .67009

**Culver #A3**

Job Ticket: 59731

**DST#: 2**

ATTN: Tim Pierce

Test Start: 2014.12.09 @ 06:50:41

## 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:

5500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                           | Volume<br>bbl |
|--------------|---------------------------------------|---------------|
| 80.00        | GOCM 7%g 7%o 86%m                     | 0.393         |
| 0.00         | 355 ft.of GIP/Clean oil @ top of tool | 0.000         |

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

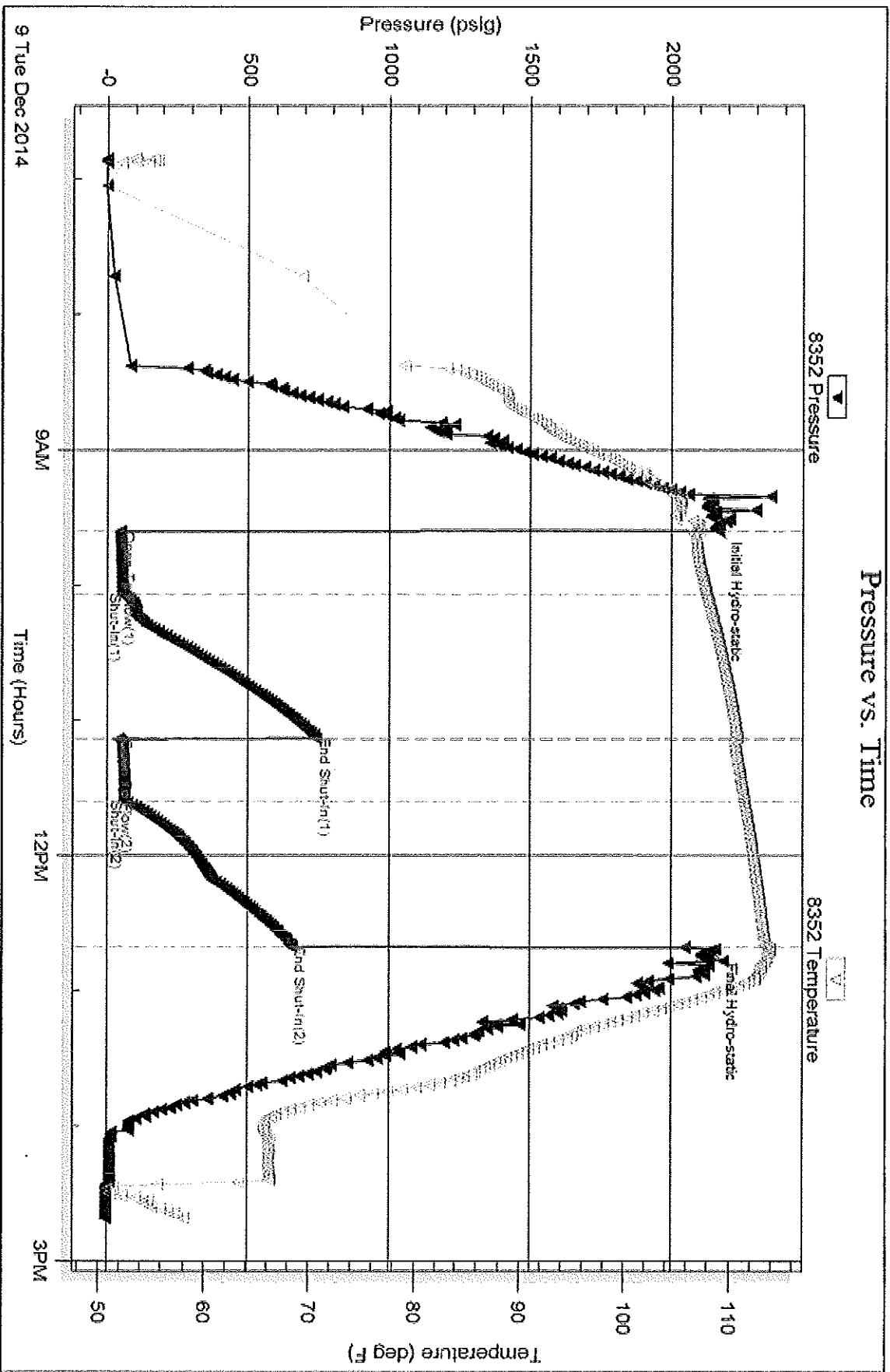
Recovery Comments:

Serial #: 8352

Outside R&B Oil & Gas Inc.

Oiliver #A3

DST Test Number: 2



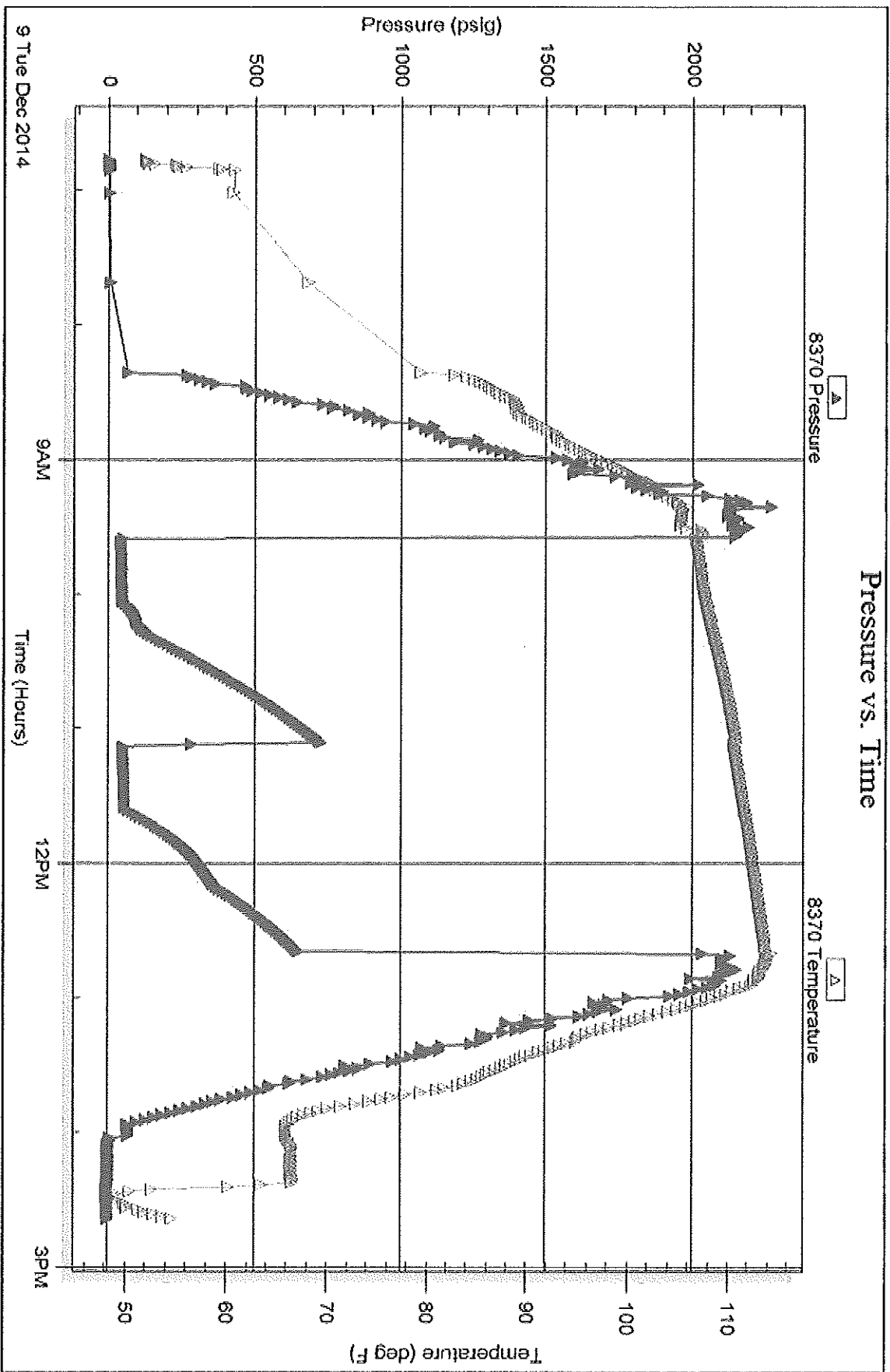
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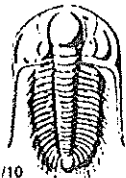
Inside

R&B Oil & Gas Inc.

Oliver #A3

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59730

Well Name & No. CULVER A-3 Test No. 1 Date 12-8-14  
 Company REB OIL & GAS INC. Elevation 1613 KB 1663 GL  
 Address 124 W. MAIN, P.O. Box 195, ATTECA KS. 67009  
 Co. Rep / Geo. TIM PEIRCE Rig HARDY DILLON #1  
 Location: Sec. 4 Twp. 31 S Rge. 8 W Co. KEOCHE State KS.

Interval Tested 4402-4420' Zone Tested MISS.  
 Anchor Length 12' Drill Pipe Run 4274' Mud Wt. 9.2  
 Top Packer Depth 4397' Drill Collars Run 120' Vis 46  
 Bottom Packer Depth 4402' Wt. Pipe Run 0 WL 8.8cc  
 Total Depth 4420' Chlorides 5500ppm System LCM 2H

Blow Description IF: Weak surging blow. (2" diameter) ISI: No blow.  
FF: No blow. Flushed tool 4 mins. into FFR. Fair surge.  
No blow. FSI: No blow

Comments: 10 ft of hard fish on bit. Did tool 6-8 ft.

| Rec       | Feet of                       | %gas | %oil | %water | %mud |
|-----------|-------------------------------|------|------|--------|------|
| <u>70</u> | <u>Crusty Mud.</u>            |      |      |        |      |
|           | <u>Oil show @ top of tool</u> |      |      |        |      |
|           | <u>COMMENT: Charts</u>        |      |      |        |      |
|           | <u>show tool plugged!</u>     |      |      |        |      |

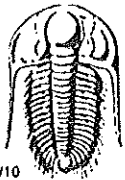
Rec Total 70 BHT \_\_\_\_\_ Gravity N/A API RW N/A @ \_\_\_\_\_ ° F Chlorides 5500 ppm  
 (A) Initial Hydrostatic 2218  Test MISS RUN 1050 T-On Location 1616  
 (B) First Initial Flow 213  Jars 250 T-Started 1743  
 (C) First Final Flow 942  Safety Joint 75 T-Open 1938  
 (D) Initial Shut-In 1258  Circ Sub \_\_\_\_\_ T-Pulled 2143  
 (E) Second Initial Flow 1258  Hourly Standby \_\_\_\_\_ T-Out 0003  
 (F) Second Final Flow 438  Mileage 1067 154.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 1045  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2221  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 12  
 Final Shut-In 20

Sub Total 0  
 Total 1539.30  
 MP/DST Disc't \_\_\_\_\_

Approved By Tim Peirce Our Representative Cooney

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. 59731

Well Name & No. CULVER A-3 Test No. 2 Date 12-9-14  
 Company REB OIL & GAS INC. Elevation 1673 KB 1663 GL  
 Address 124 N. MAIN, P.O. Box 195, ATTICA Ks. 67009  
 Co. Rep / Geo. TIM PIERCE Rig HARDT DRILLING #1  
 Location: Sec. 4 Twp. 31S Rge. 8W Co. KINGMAN State KS

Interval Tested 4403 - 4425' Zone Tested MESS.  
 Anchor Length 22' Drill Pipe Run 4275' Mud Wt. 9.2  
 Top Packer Depth 4498' Drill Collars Run 120' Vis 51  
 Bottom Packer Depth 4403' Wt. Pipe Run 0 WL 8.8 cc  
 Total Depth 4425' Chlorides 5500 ppm System LCM 2#

Blow Description IF: Fair to strong below, B.O.B. in 18 mins.  
FSI: Weak below, 1/2" - 1 1/4"  
FF: Strong below, B.O.B. in 8 mins. FSI: Weak below, 1/2"

| Rec        | Feet of                                 | %gas     | %oil     | %water    | %mud |
|------------|---|----------|----------|-----------|------|
| <u>355</u> | <u>Feet of Cross in pipe</u>            |          |          |           |      |
| <u>80</u>  | <u>Feet of GOM</u>                      | <u>7</u> | <u>7</u> | <u>86</u> |      |
|            | <u>Feet of Clear oil @ Top of tool.</u> |          |          |           |      |
|            |   |          |          |           |      |
|            |   |          |          |           |      |

Rec Total 80 FluoroBHT 114° Gravity N/A API RW N.C. @ - °F Chlorides 5500 ppm

(A) Initial Hydrostatic 2155  Test 1250 T-On Location 0628  
 (B) First Initial Flow 48  Jars 250 T-Started 04210  
 (C) First Final Flow 53  Safety Joint 75 T-Open 0936  
 (D) Initial Shut-In 743  Circ Sub \_\_\_\_\_ T-Pulled 1237  
 (E) Second Initial Flow 41  Hourly Standby \_\_\_\_\_ T-Out 1441  
 (F) Second Final Flow 62  Mileage 106.5 X 2 328.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 657  Sampler \_\_\_\_\_ loaded tools 12/10  
 (H) Final Hydrostatic 2142  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 60  Accessibility \_\_\_\_\_  
 Sub Total 1903.60 Total \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Approved By Tim Pierce Our Representative Gary Burdette

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 note shall be paid for at cost by the party for whom the test is made.