

## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc**

1601 NW Expressway STE 1300 Oklahoma  
City OK 73118

ATTN: Ed Grieves

**Fox #1-30**

**30-33s-30w Meade,KS**

Start Date: 2012.07.21 @ 18:30:15

End Date: 2012.07.22 @ 05:05:00

Job Ticket #: 48400 DST #: 1

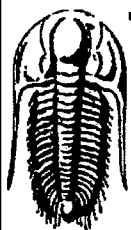
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.26 @ 11:50:56

Raydon Exploration, Inc 30-33s-30w Meade,KS Fox #1-30 DST # 1 Lansing "A" 2012.07.21



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

## DRILL STEM TEST REPORT

Raydon Exploration, Inc

**30-33s-30w Meade, KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 48400

**DST#: 1**

ATTN: Ed Grieves

Test Start: 2012.07.21 @ 18:30:15

### GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:05:45

Time Test Ended: 05:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: **4470.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2712.00 ft (KB)

2702.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6668**

**Outside**

Press@RunDepth: 139.04 psig @ 4471.00 ft (KB)

Start Date: 2012.07.20 End Date: 2012.07.21

Start Time: 18:30:15 End Time: 05:05:00

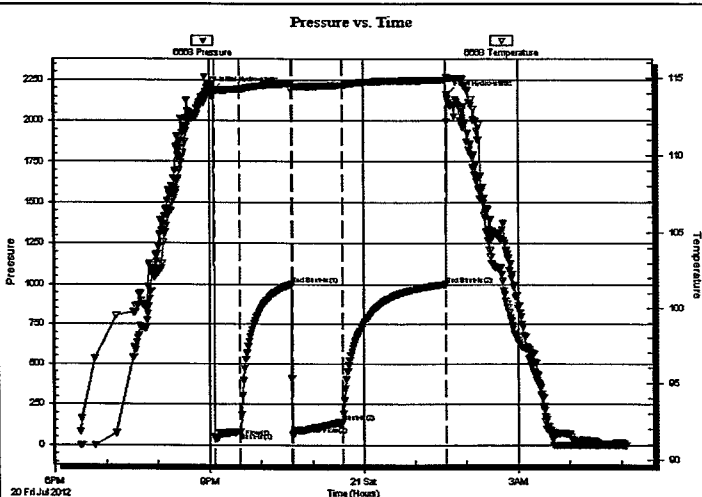
Capacity: 8000.00 psig

Last Calib.: 2012.07.21

Time On Btm: 2012.07.20 @ 21:05:00

Time Off Btm: 2012.07.21 @ 01:37:45

TEST COMMENT: IF:BOB in 1 min GTS at 23 min.  
IS:Bled off for 5 min... Return blow built to BOB in 30 min.  
FF:BOB in 1 min GTS  
FS:Bled off for 5 min. Return blow built to BOB in 5 min.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2185.69         | 114.83       | Initial Hydro-static |
| 1           | 48.97           | 114.26       | Open To Flow (1)     |
| 30          | 74.13           | 114.27       | Shut-In(1)           |
| 91          | 1003.06         | 114.62       | End Shut-In(1)       |
| 93          | 63.58           | 114.46       | Open To Flow (2)     |
| 151         | 139.04          | 114.57       | Shut-In(2)           |
| 272         | 1002.82         | 114.89       | End Shut-In(2)       |
| 273         | 2157.80         | 115.04       | Final Hydro-static   |

### Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 177.00      | gcmo 10%g 15%m 75%o  | 0.87         |
| 178.00      | mcgo 5%m 10%g 85%o   | 0.88         |
| 94.00       | gco 10%g 90%o        | 1.32         |
| 0.00        | GIP= 3948 Feet 100%g | 0.00         |
|             |                      |              |
|             |                      |              |

### Gas Rates

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



## Raydon Exploration, Inc

ATTN: Ed Grieves

**Fox #1-30**

Job Ticket: 48400

DST#: 1

Test Start: 2012.07.21 @ 18:30:15

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:05:45

Time Test Ended: 05:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4470.00 ft (KB) To 4480.00 ft (KB) (TVD)

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2712.00 ft (KB)

2702.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8736**      **Inside**

Press@RunDepth: psig @ 4471.00 ft (KB)

Start Date: 2012.07.20 End Date: 2012.07.21

Start Time: 18:30:15 End Time: 05:14:45

Capacity: 8000.00 psia

Last Calib.: 2012.07.21

Time On Btm:

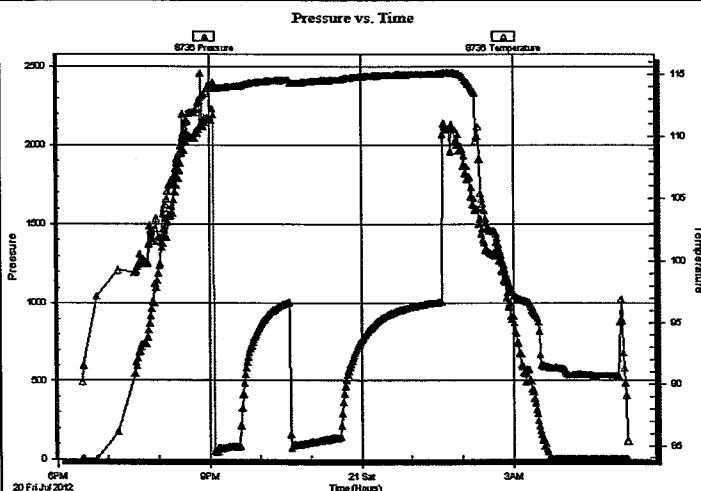
Time Off Btm:

TEST COMMENT: IF:BOB in 1 min GTS at 23 min.

IS:Bled off for 5 min... Return blow built to BOB in 30 min.

FF:BOB in 1 min GTS

FS:Bled off for 5 min. Return blow built to BOB in 5 min.



## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 177.00      | gcmo 10%g 15%m 75%o | 0.87         |
| 178.00      | mcgo 5%m 10%g 85%o  | 0.88         |
| 94.00       | gco 10%g 90%o       | 1.32         |
| 0.00        | GI= 3948 Feet 100%g | 0.00         |
|             |                     |              |
|             |                     |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc

30-33s-30w Meade, KS

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

Fox #1-30

Job Ticket: 48400

DST#: 1

ATTN: Ed Grieves

Test Start: 2012.07.21 @ 18:30:15

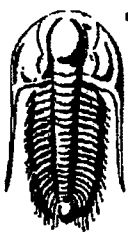
### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4112.00 ft | Diameter: 3.80 inches | Volume: 57.68 bbl | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: 355.00 ft  | Diameter: 2.25 inches | Volume: 1.75 bbl  | Weight to Pull Loose:  | 110000.0 lb |
|                           |                    | Total Volume:         | 59.43 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 25.00 ft           |                       |                   | String Weight: Initial | 90000.00 lb |
| Depth to Top Packer:      | 4470.00 ft         |                       |                   | Final                  | 91000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 10.00 ft           |                       |                   |                        |             |
| Tool Length:              | 38.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 2                  | Diameter:             | 6.76 inches       |                        |             |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 4443.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4448.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4453.00    |                               |
| Jars             | 5.00        |            |          | 4458.00    |                               |
| Safety Joint     | 3.00        |            |          | 4461.00    |                               |
| Packer           | 5.00        |            |          | 4466.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4470.00    |                               |
| Stubb            | 1.00        |            |          | 4471.00    |                               |
| Recorder         | 0.00        | 8736       | Inside   | 4471.00    |                               |
| Recorder         | 0.00        | 6668       | Outside  | 4471.00    |                               |
| Perforations     | 4.00        |            |          | 4475.00    |                               |
| Bullnose         | 5.00        |            |          | 4480.00    | 10.00 Bottom Packers & Anchor |

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Raydon Exploration, Inc

**30-33s-30w Meade, KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 48400

**DST#: 1**

ATTN: Ed Grieves

Test Start: 2012.07.21 @ 18:30:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.34 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 177.00       | gcmo 10%g 15%m 75%o  | 0.870         |
| 178.00       | mcgo 5%m 10%g 85%o   | 0.875         |
| 94.00        | gco 10%g 90%o        | 1.319         |
| 0.00         | GIP= 3948 Feet 100%g | 0.000         |

Total Length: 449.00 ft

Total Volume: 3.064 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

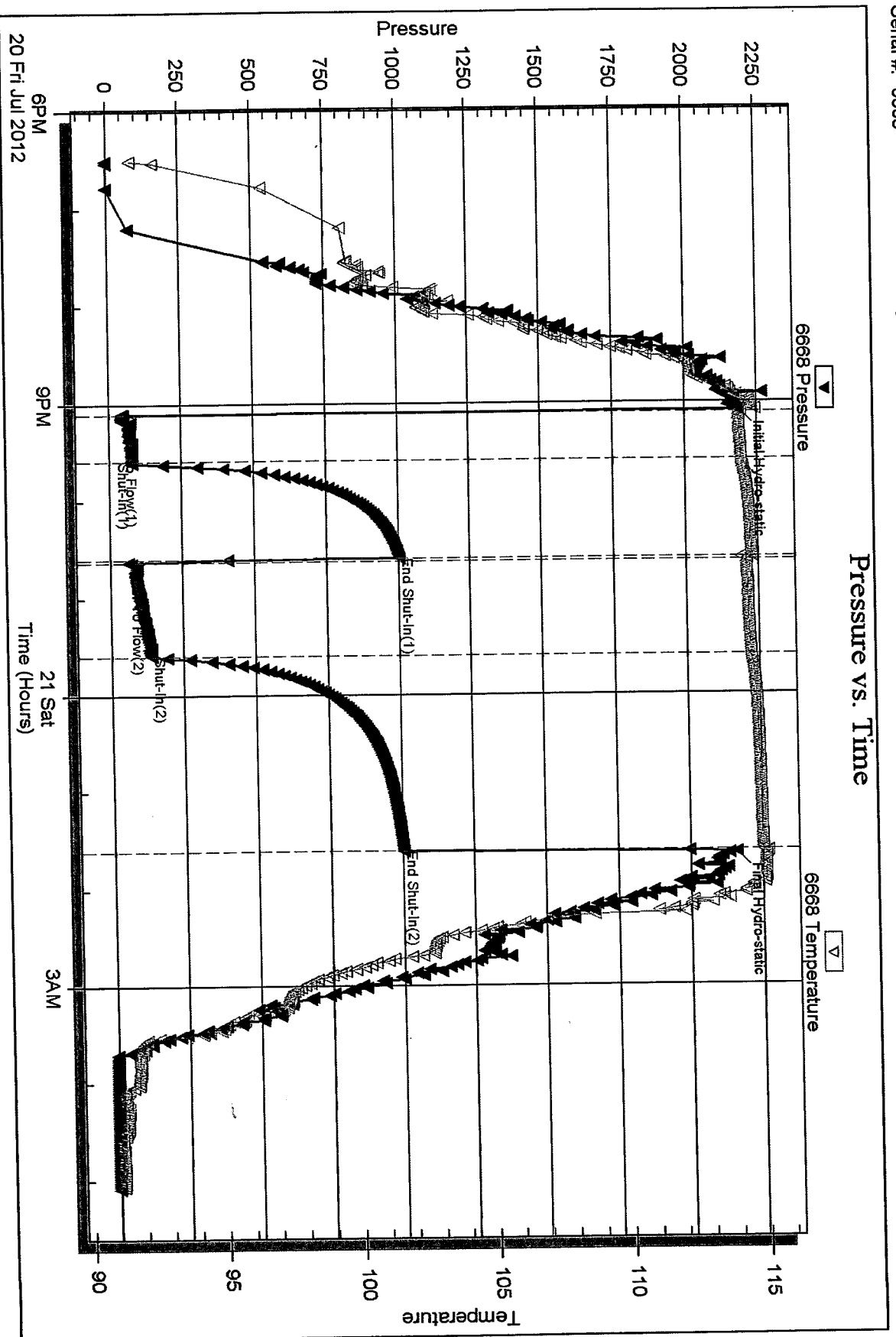
Recovery Comments: API= 37@70 corrected to 36@ 60

Serial #: 6668

Outside Raydon Exploration, Inc

Fox #1-30

DST Test Number: 1



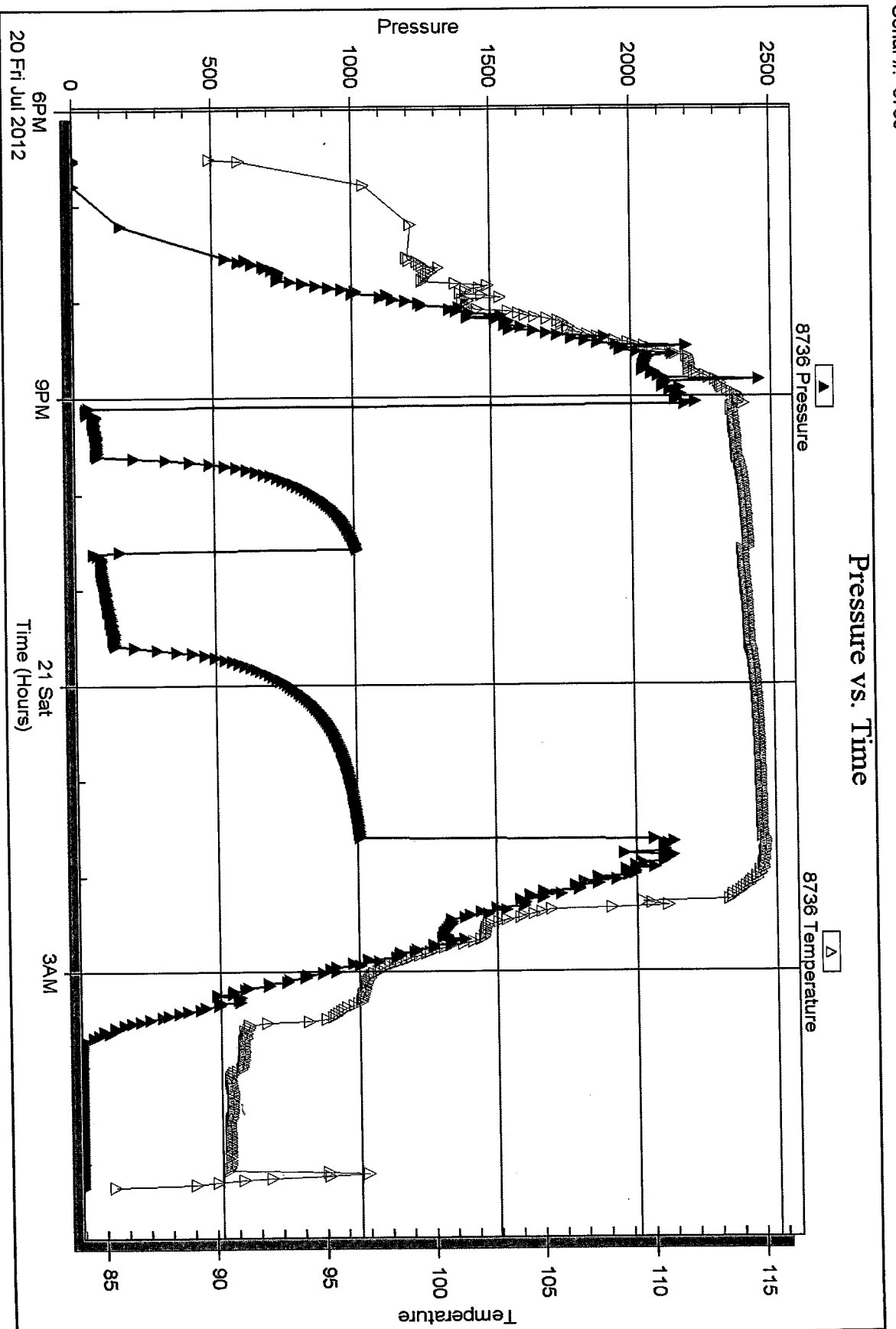
Serial #: 8736

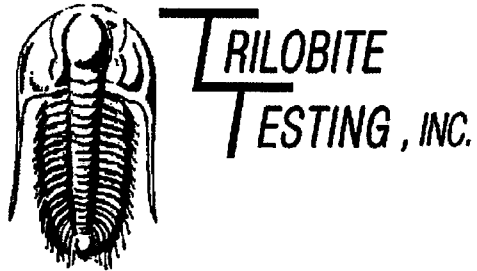
Inside

Raydon Exploration, Inc

Fox #1-30

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc**

1601 NW Expressway STE 1300 Oklahoma  
City OK 73118

ATTN: Ed Grieves

**Fox #1-30**

**30-33s-30w Meade,KS**

Start Date: 2012.07.22 @ 13:53:15

End Date: 2012.07.22 @ 22:23:45

Job Ticket #: 48976                      DST #: 2

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

Printed: 2012.07.26 @ 11:50:20

Raydon Exploration, Inc    30-33s-30w Meade,KS    Fox #1-30    DST # 2    G    2012.07.22



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Raydon Exploration, Inc

**30-33s-30w Meade,KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 48976

**DST#: 2**

ATTN: Ed Grieves

Test Start: 2012.07.22 @ 13:53:15

### GENERAL INFORMATION:

Formation: **G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:24:15

Time Test Ended: 22:23:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: **4690.00 ft (KB) To 4717.00 ft (KB) (TVD)**

Reference Elevations: 2712.00 ft (KB)

Total Depth: 4717.00 ft (KB) (TVD)

2702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GRV/CF: 10.00 ft

**Serial #: 8736**

Inside

Press@RunDepth: 76.36 psig @ 4691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.22

End Date:

2012.07.22

Last Calib.: 2012.07.22

Start Time: 13:53:15

End Time:

22:23:45

Time On Btm: 2012.07.22 @ 16:23:45

Time Off Btm: 2012.07.22 @ 19:26:00

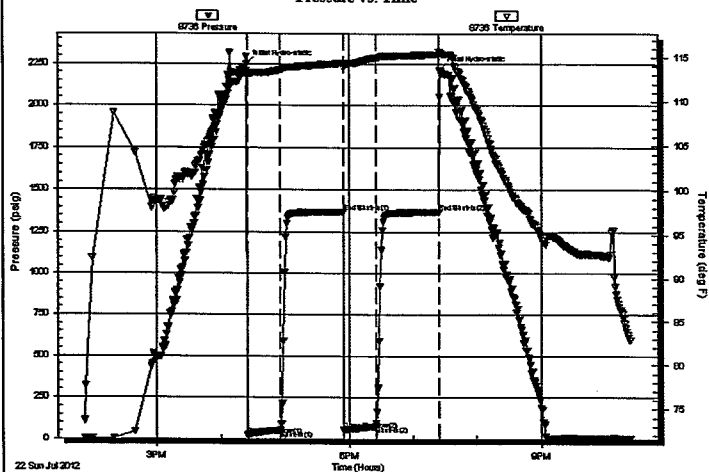
TEST COMMENT: IF: Built to 1 1/4" blow

IS: No return blow

FF: No blow

FS: No return blow

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2245.33         | 113.48       | Initial Hydro-static |
| 1           | 23.23           | 112.98       | Open To Flow (1)     |
| 32          | 52.84           | 113.58       | Shut-In(1)           |
| 91          | 1369.91         | 114.34       | End Shut-In(1)       |
| 92          | 57.83           | 113.95       | Open To Flow (2)     |
| 121         | 76.36           | 115.00       | Shut-In(2)           |
| 182         | 1369.15         | 115.35       | End Shut-In(2)       |
| 183         | 2211.21         | 115.48       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 90.00       | mud 100% m  | 0.44         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

\* Recovery from multiple tests

### Gas Rates

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



## Raydon Exploration, Inc

**30-33s-30w Meade,KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 48976

DST#: 2

ATTN: Ed Grieves

Test Start: 2012.07.22 @ 13:53:15

**Formation:**

**G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:24:15

Time Test Ended: 22:23:45

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

Tester: Mike Roberts

Unit No: 48

Interval: 4690.00 ft (KB) To 4717.00 ft (KB) (TVD)

Total Depth: 4717.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2712.00 ft (KB)

2702.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6668**

## Outside

Press@RunDepth: psig @ 4691.00 ft (KB)

Start Date: 2012.07.22 End Date: 2012.07.22

Capacity: 8000.00 psig

Start Time: 13:53:15 End Time: 22:23:15

Last Calib.: 2012.07.22

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to 1 1/4" blow

IS:No return blow

FF:No blow

FS:No return blow



## Recovery

## Gas Rates

\* Recovery from multiple tests

Ref. No: 48976

Printed: 2012.07.26 @ 11:50:21



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc

**30-33s-30w Meade, KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 48976

**DST#: 2**

ATTN: Ed Grieves

Test Start: 2012.07.22 @ 13:53:15

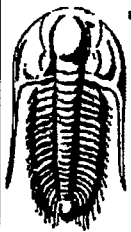
### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4332.00 ft | Diameter: 3.80 inches | Volume: 60.77 bbl | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: 355.00 ft  | Diameter: 2.25 inches | Volume: 1.75 bbl  | Weight to Pull Loose:  | 120000.0 lb |
|                           |                    | Total Volume:         | 62.52 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 25.00 ft           |                       |                   | String Weight: Initial | 90000.00 lb |
| Depth to Top Packer:      | 4690.00 ft         |                       |                   | Final                  | 90000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 25.00 ft           |                       |                   |                        |             |
| Tool Length:              | 53.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 2                  | Diameter:             | 6.76 inches       |                        |             |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 4663.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4668.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4673.00    |                               |
| Jars             | 5.00        |            |          | 4678.00    |                               |
| Safety Joint     | 3.00        |            |          | 4681.00    |                               |
| Packer           | 5.00        |            |          | 4686.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4690.00    |                               |
| Stubb            | 1.00        |            |          | 4691.00    |                               |
| Recorder         | 0.00        | 8736       | Inside   | 4691.00    |                               |
| Recorder         | 0.00        | 6668       | Outside  | 4691.00    |                               |
| Perforations     | 19.00       |            |          | 4710.00    |                               |
| Bullnose         | 5.00        |            |          | 4715.00    | 25.00 Bottom Packers & Anchor |

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Raydon Exploration, Inc

**30-33s-30w Meade, KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 48976

**DST#: 2**

ATTN: Ed Grieves

Test Start: 2012.07.22 @ 13:53:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 90.00        | mud 100% m  | 0.443         |

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

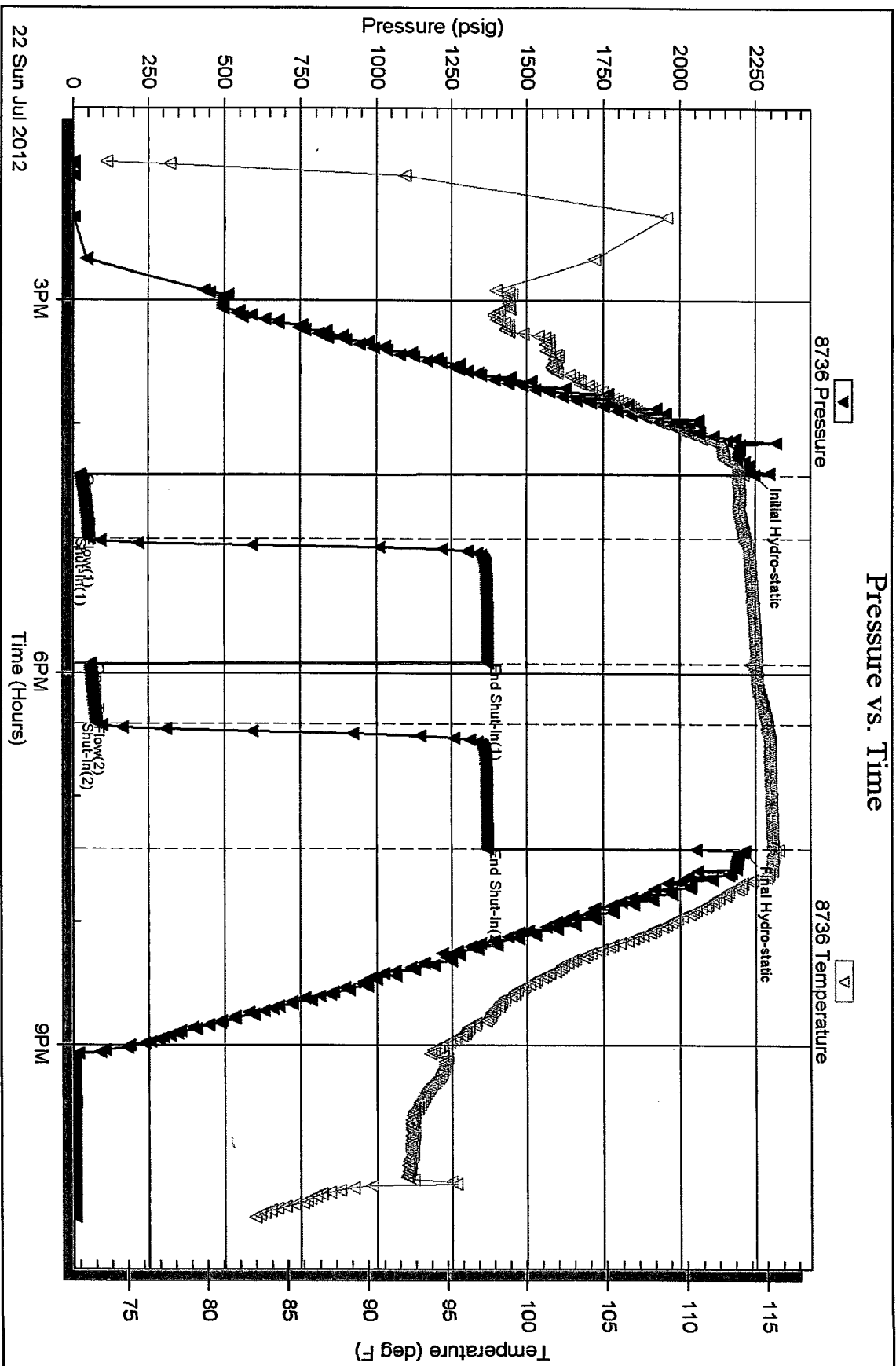
Serial #: 8736

Inside

Raydon Exploration, Inc

Fox #1-30

DST Test Number: 2

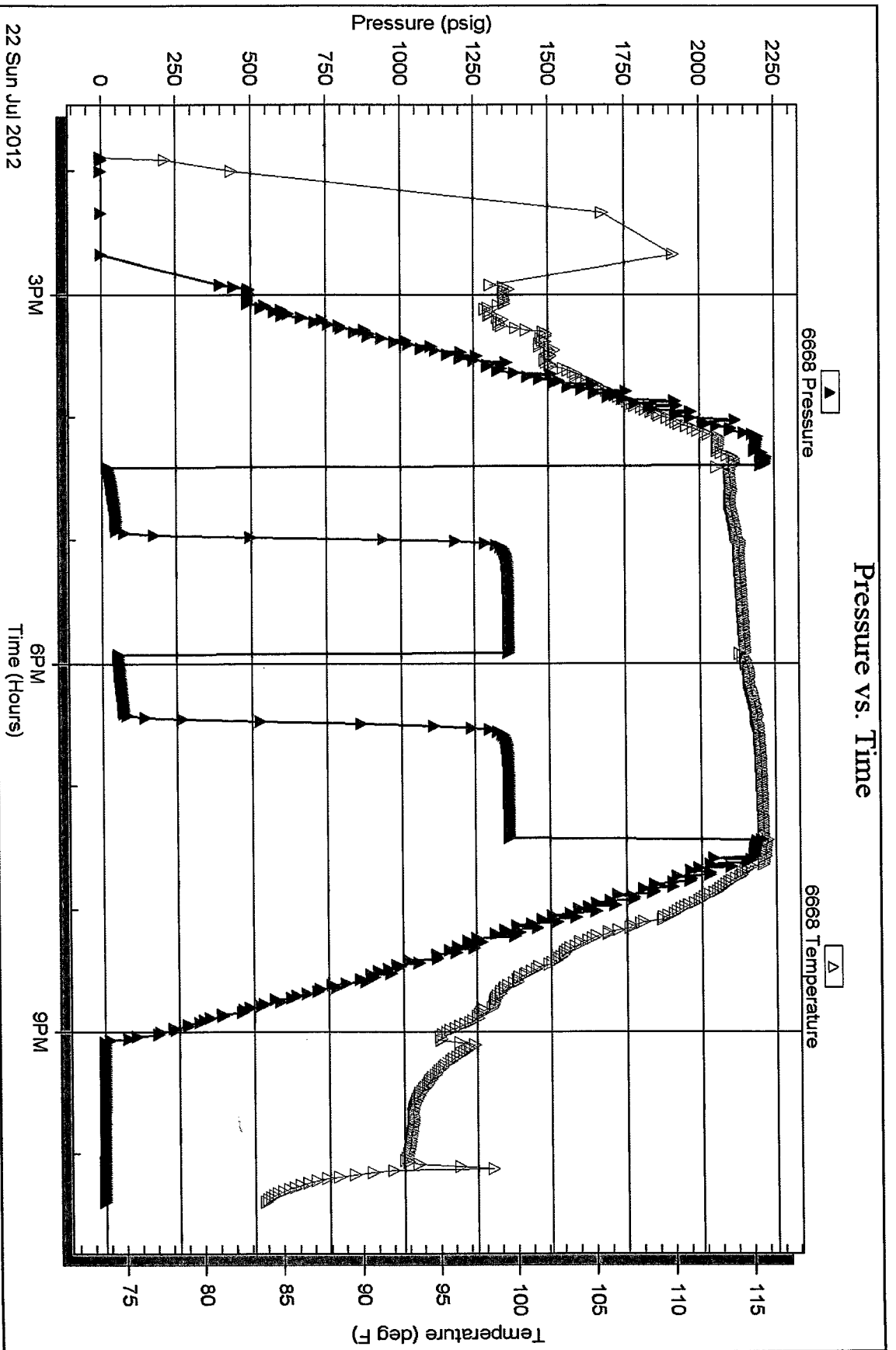


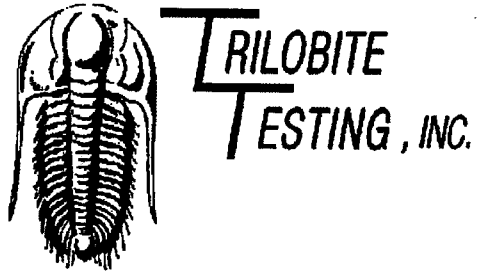
Serial #: 6668

Outside Raydon Exploration, Inc

Fox #1-30

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc**

1601 NW Expressway STE 1300 Oklahoma  
City OK 73118

ATTN: Ed Grieves

**Fox #1-30**

**30-33s-30w Meade,KS**

Start Date: 2012.07.26 @ 20:23:00

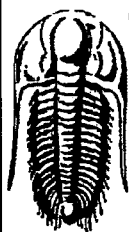
End Date: 2012.07.27 @ 07:51:45

Job Ticket #: 47069 DST #: 3

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

Printed: 2012.08.01 @ 11:37:21

Raydon Exploration, Inc  
30-33s-30w Meade,KS  
Fox #1-30  
DST # 3  
Morrow  
2012.07.26



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Raydon Exploration, Inc

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

ATTN: Ed Grieves

**30-33s-30w Meade, KS**

**Fox #1-30**

Job Ticket: 47069

DST#: 3

Test Start: 2012.07.26 @ 20:23:00

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:36:00

Time Test Ended: 07:51:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 58

Interval: **5698.00 ft (KB) To 5720.00 ft (KB) (TVD)**

Total Depth: 5720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2712.00 ft (KB)

2702.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8672**

**Inside**

Press@RunDepth: 28.18 psig @ 5699.00 ft (KB)

Start Date: 2012.07.26

End Date:

2012.07.27

Start Time: 20:23:05

End Time:

07:51:45

Capacity: 8000.00 psig

Last Calib.: 2012.07.27

Time On Btm: 2012.07.26 @ 23:35:15

Time Off Btm: 2012.07.27 @ 04:15:45

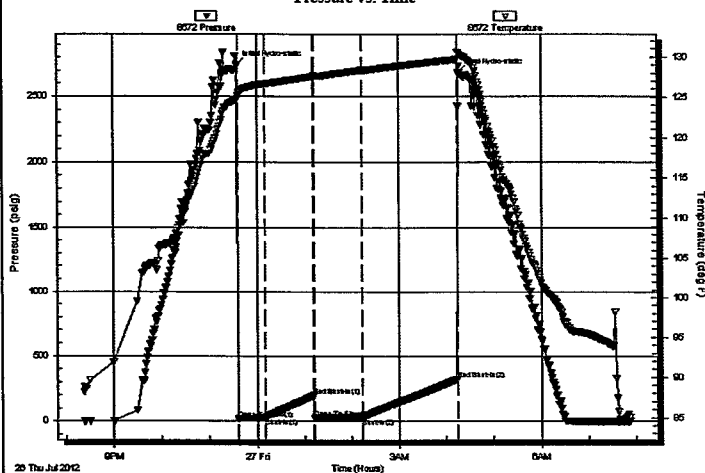
TEST COMMENT: IF: 8" Blow.

IS: No Return.

FF: 6 1/4" Blow.

FS: No Return.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2741.71         | 124.80       | Initial Hydro-static |
| 1           | 18.93           | 124.86       | Open To Flow (1)     |
| 35          | 28.25           | 126.63       | Shut-In(1)           |
| 97          | 197.49          | 127.58       | End Shut-In(1)       |
| 97          | 23.10           | 127.54       | Open To Flow (2)     |
| 158         | 28.18           | 128.34       | Shut-In(2)           |
| 279         | 320.47          | 129.69       | End Shut-In(2)       |
| 281         | 2684.73         | 130.51       | Final Hydro-static   |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00       | OCM 10o 90m | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

\* Recovery from multiple tests

Gas Rates

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



## Raydon Exploration, Inc

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 47069

DST#: 3

ATTN: Ed Grieves

Test Start: 2012.07.26 @ 20:23:00

Formation: **Morrow**

|           |    |            |         |
|-----------|----|------------|---------|
| Deviated: | No | Whipstock: | ft (KB) |
|-----------|----|------------|---------|

Time Tool Opened: 23:36:00

Time Test Ended: 07:51:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 58

Interval: 5698.00 ft (KB) To 5720.00 ft (KB) (TVD)

Total Depth: 5720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2712.00 ft (KB)

2702.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8355      Outside**

Press@RunDepth: psig @ 5699.00 ft (KB)

Start Date: 2012.07.26

End Date:

2012.07.27

Start Time: 20:23:05

End Time:

07:51:45

Capacity: 8000.00 psig

Last Calib.: 2012.07.27

Time On Btm:

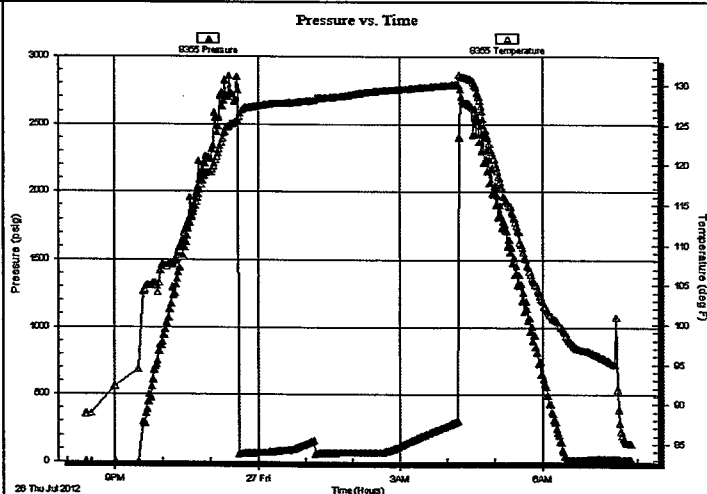
Time Off Btm:

TEST COMMENT: IF: 8" Blow.

ISI: No Return.

FF: 6 1/4" Blow .

FSI: No Return.



## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00       | OCM 10o 90m | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc

30-33s-30w Meade, KS

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

Fox #1-30

Job Ticket: 47069

DST#: 3

ATTN: Ed Grieves

Test Start: 2012.07.26 @ 20:23:00

### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 5332.00 ft | Diameter: 3.80 inches | Volume: 74.79 bbl | Tool Weight:           | 2500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: 355.00 ft  | Diameter: 2.25 inches | Volume: 1.75 bbl  | Weight to Pull Loose:  | 120000.0 lb |
|                           |                    | Total Volume:         | 76.54 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 17.00 ft           |                       |                   | String Weight: Initial | 104000.0 lb |
| Depth to Top Packer:      | 5698.00 ft         |                       |                   | Final                  | 105000.0 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        |            |          | 5671.00    |                               |
| Shut In Tool     | 5.00        |            |          | 5676.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 5681.00    |                               |
| Jars             | 5.00        |            |          | 5686.00    |                               |
| Safety Joint     | 3.00        |            |          | 5689.00    |                               |
| Packer           | 5.00        |            |          | 5694.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 5698.00    |                               |
| Stubb            | 1.00        |            |          | 5699.00    |                               |
| Recorder         | 0.00        | 8672       | Inside   | 5699.00    |                               |
| Recorder         | 0.00        | 8355       | Outside  | 5699.00    |                               |
| Perforations     | 18.00       |            |          | 5717.00    |                               |
| Bullnose         | 3.00        |            |          | 5720.00    | 22.00 Bottom Packers & Anchor |

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Raydon Exploration, Inc

**30-33s-30w Meade, KS**

1601 NW Expressway STE 1300 Oklahoma City  
OK 73118

**Fox #1-30**

Job Ticket: 47069

**DST#: 3**

ATTN: Ed Grieves

Test Start: 2012.07.26 @ 20:23:00

### 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: 74.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 15.00        | OCM 10o 90m | 0.074         |

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

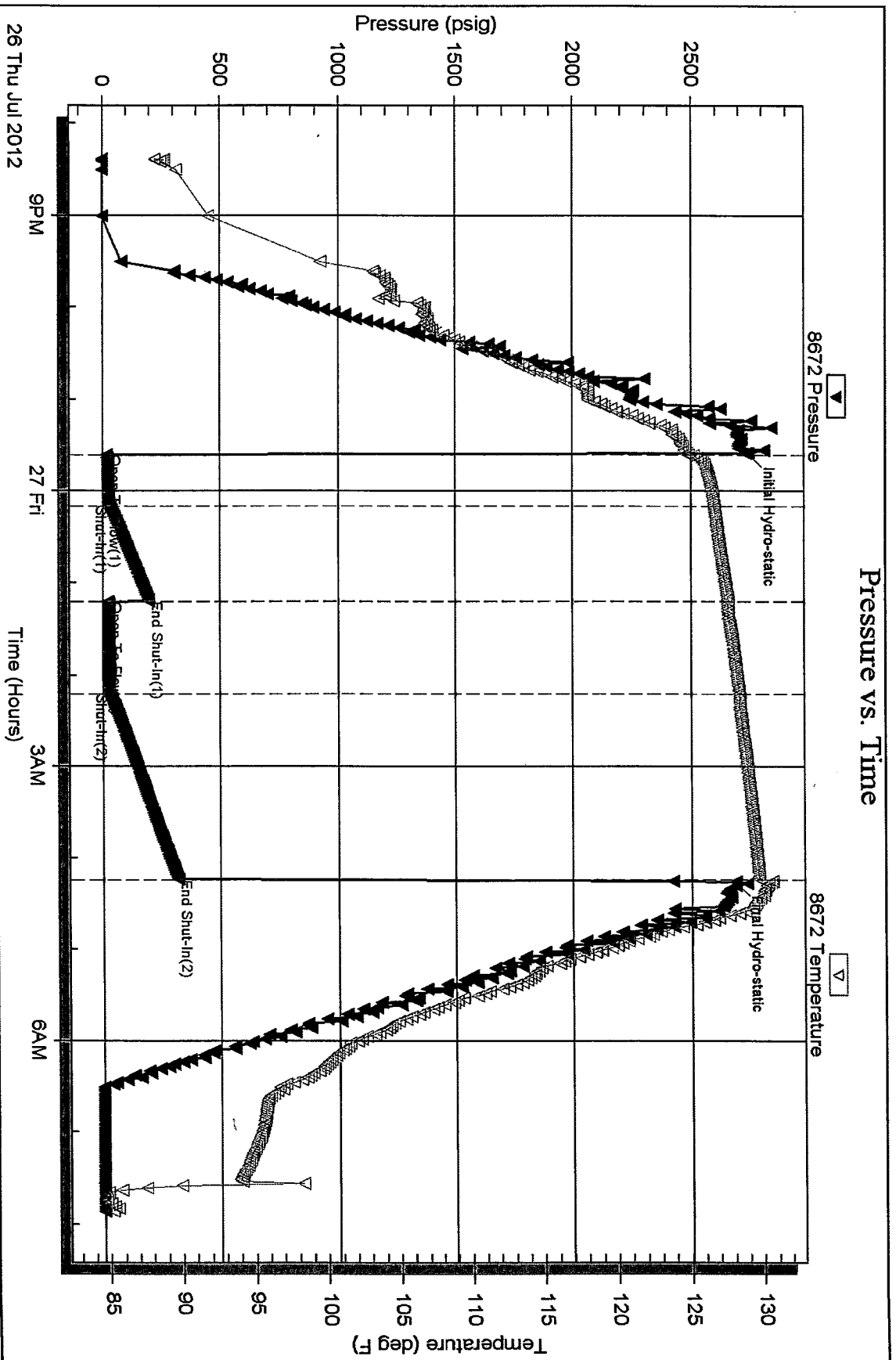
Serial #: 8672

Inside

Raydon Exploration, Inc

Fox #1-30

DST Test Number: 3

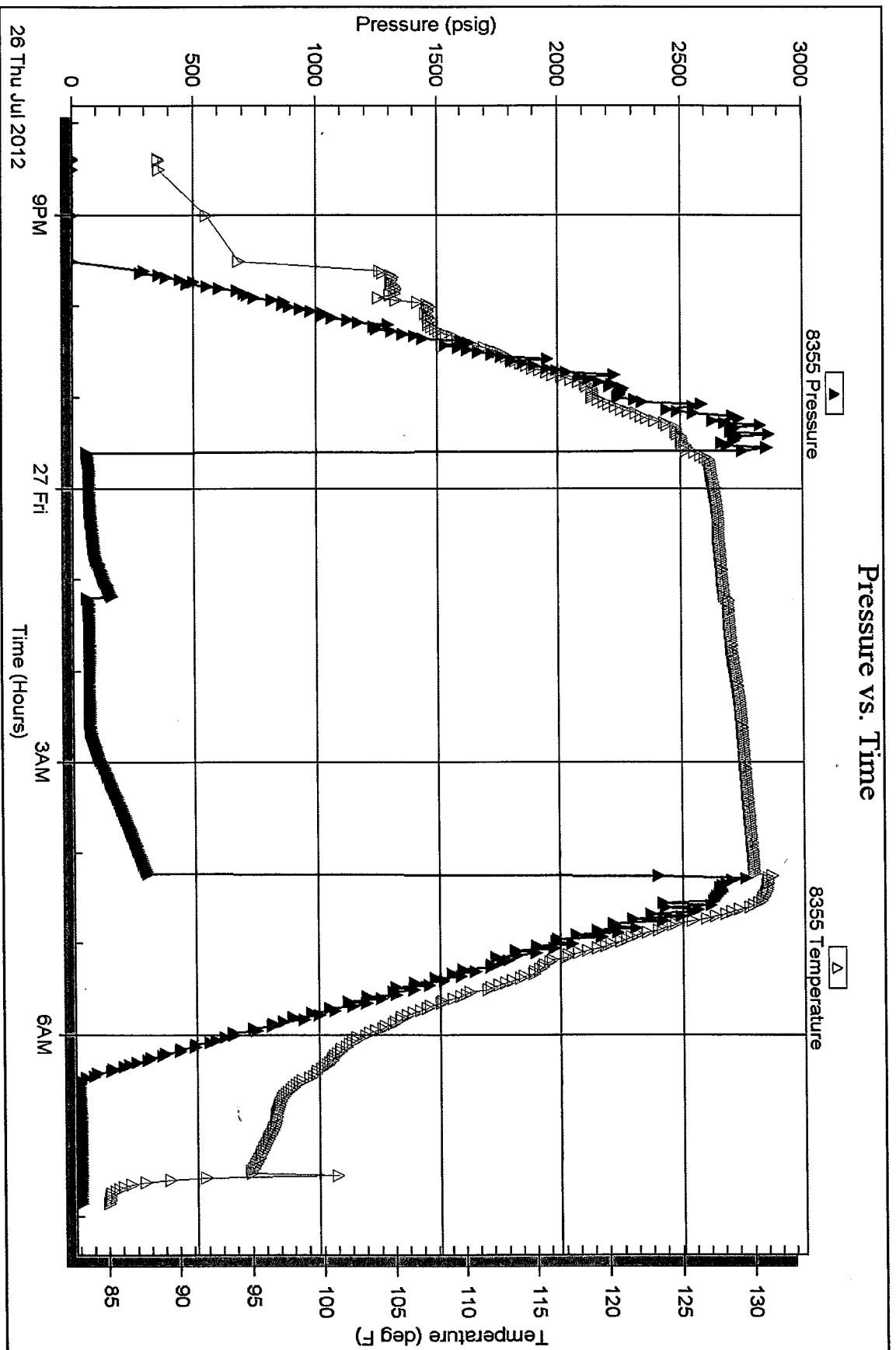


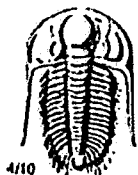
Serial #: 8355

Outside Raydon Exploration, Inc

Fox #1-30

DST Test Number: 3





**TRILOBITE  
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

# Test Ticket

NO. 48400

Well Name & No. Fox #1-30 Test No. 1 Date 7-20-12  
 Company Raydon Exploration Elevation 2702 KB 2712 GL  
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118  
 Co. Rep / Geo. Ed Grieses Rig Tomcat #1  
 Location: Sec. 30 Twp. 33S Rge. 30W Co. Meade State KS

Interval Tested 4470-4480 Zone Tested Lansing A  
 Anchor Length 10' Drill Pipe Run 4472 Mud Wt. 9.2  
 Top Packer Depth 4466 Drill Collars Run 355 Vis 46  
 Bottom Packer Depth 4470 Wt. Pipe Run 0 WL 11.4  
 Total Depth 4480 Chlorides 4000 ppm System LCM 4

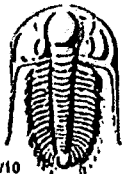
Blow Description IF: BOB in 1 Min GTS @ 23 Min -  
IS: Bled off for 5 Min Return Blow BOB in 30 Min  
FF: BOB in 1 Min GTS -  
FS: Bled off for 5 Min - Return Blow BOB in 5 Min

| Rec                  | Feet of             | 100               | %gas            | %oil       | %water                | %mud      |
|----------------------|---------------------|-------------------|-----------------|------------|-----------------------|-----------|
| Rec <u>94</u>        | Feet of <u>gco</u>  | <u>10</u>         | <u>90</u>       | <u>90</u>  | <u>90</u>             | <u>90</u> |
| Rec <u>177</u>       | Feet of <u>gcnd</u> | <u>10</u>         | <u>75</u>       | <u>75</u>  | <u>15</u>             | <u>15</u> |
| Rec <u>178</u>       | Feet of <u>mcgo</u> | <u>10</u>         | <u>85</u>       | <u>85</u>  | <u>5</u>              | <u>5</u>  |
| Rec                  | Feet of             |                   | %gas            | %oil       | %water                | %mud      |
| Rec Total <u>449</u> | BHT <u>115</u>      | Gravity <u>36</u> | API RW <u>1</u> | @ <u>1</u> | °F Chlorides <u>1</u> | ppm       |

|                                     |                                                                                  |                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| (A) Initial Hydrostatic <u>2185</u> | <input checked="" type="checkbox"/> Test <u>1250.00</u>                          | T-On Location <u>18:00</u>                                                     |
| (B) First Initial Flow <u>48</u>    | <input checked="" type="checkbox"/> Jars <u>250.00</u>                           | T-Started <u>18:30</u>                                                         |
| (C) First Final Flow <u>74</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75.00</u>                    | T-Open <u>21:05</u>                                                            |
| (D) Initial Shut-In <u>1003</u>     | <input checked="" type="checkbox"/> Circ Sub <u>NC</u>                           | T-Pulled <u>01:35</u>                                                          |
| (E) Second Initial Flow <u>63</u>   | <input checked="" type="checkbox"/> Hourly Standby <u>2 HRS</u> 1hr 100          | T-Out <u>05:05</u>                                                             |
| (F) Second Final Flow <u>139</u>    | <input checked="" type="checkbox"/> Milago <u>260LT = 403.00</u><br>110rt 170.50 | Comments <u>To low to</u><br><u>guage gas - Burnable</u><br><u>Blue Flame.</u> |
| (G) Final Shut-In <u>1002</u>       | <input type="checkbox"/> Sampler                                                 | <input type="checkbox"/> Ruined Shale Packer                                   |
| (H) Final Hydrostatic <u>2157</u>   | <input type="checkbox"/> Straddle                                                | <input type="checkbox"/> Ruined Packer                                         |

|                           |                                                                 |                              |
|---------------------------|-----------------------------------------------------------------|------------------------------|
| Initial Open <u>30</u>    | <input checked="" type="checkbox"/> Shale Packer <u>250.00</u>  | Sub Total <u>0</u>           |
| Initial Shut-In <u>60</u> | <input checked="" type="checkbox"/> Extra Packer <u>250.00</u>  | Total <u>2345.50</u>         |
| Final Flow <u>60</u>      | <input type="checkbox"/> Extra Recorder                         | MP/DST Disc't <u>without</u> |
| Final Shut-In <u>120</u>  | <input type="checkbox"/> Day Standby                            | Rolling to truck             |
|                           | <input checked="" type="checkbox"/> Accessibility <u>150.00</u> |                              |
|                           | Sub Total <u>2345.50</u>                                        |                              |

Approved By Ed Grieses Our Representative Mike Roberts  
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**TRILOBITE  
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

# Test Ticket

NO. 48976

Well Name & No. Fox #1-30 Test No. 2 Date 7-22-12  
 Company Raydon Exploration Elevation 2702 KB 2712 GL  
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118  
 Co. Rep / Geo. Ed Grieves Rig Tomcat #1  
 Location: Sec. 30 Twp. 33S Rge. 30W Co. Meade State KS

Interval Tested 4690-4717 Zone Tested "6"  
 Anchor Length 27 Drill Pipe Run 4332 Mud Wt. 9.0  
 Top Packer Depth 4686 Drill Collars Run 355 Vis 54  
 Bottom Packer Depth 4690 Wt. Pipe Run 8 WL 8.4  
 Total Depth 4717 Chlorides 3200 ppm System LCM 8

Blow Description IF: Built to 1 1/4" Blow  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

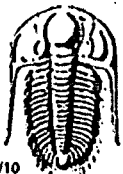
| Rec       | Feet of    | %gas | %oil | %water     | %mud |
|-----------|------------|------|------|------------|------|
| <u>90</u> | <u>MUP</u> |      |      | <u>100</u> |      |
| Rec       | Feet of    | %gas | %oil | %water     | %mud |
| Rec       | Feet of    | %gas | %oil | %water     | %mud |
| Rec       | Feet of    | %gas | %oil | %water     | %mud |
| Rec       | Feet of    | %gas | %oil | %water     | %mud |

Rec Total 90 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

|                                     |                                                                                  |                            |
|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|
| (A) Initial Hydrostatic <u>2245</u> | <input checked="" type="checkbox"/> Test <u>1250.00/-</u>                        | T-On Location <u>12:30</u> |
| (B) First Initial Flow <u>23</u>    | <input checked="" type="checkbox"/> Jars <u>250.00/-</u>                         | T-Started <u>13:53</u>     |
| (C) First Final Flow <u>52</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75.00/-</u>                  | T-Open <u>16:25</u>        |
| (D) Initial Shut-In <u>1369</u>     | <input checked="" type="checkbox"/> Circ Sub <u>NC</u>                           | T-Pulled <u>19:25</u>      |
| (E) Second Initial Flow <u>57</u>   | <input type="checkbox"/> Hourly Standby <u>1</u>                                 | T-Out <u>22:23</u>         |
| (F) Second Final Flow <u>76</u>     | <input checked="" type="checkbox"/> Mileage <u>260 RT = 11403.00/-</u><br>170.50 | Comments <u>—</u>          |
| (G) Final Shut-In <u>1369</u>       | <input type="checkbox"/> Sampler <u>—</u>                                        |                            |
| (H) Final Hydrostatic <u>2211</u>   | <input type="checkbox"/> Straddle <u>—</u>                                       |                            |

|                           |                                                                   |                                                       |
|---------------------------|-------------------------------------------------------------------|-------------------------------------------------------|
| Initial Open <u>30</u>    | <input checked="" type="checkbox"/> Shale Packer <u>250.00/-</u>  | <input type="checkbox"/> Ruined Shale Packer <u>—</u> |
| Initial Shut-In <u>60</u> | <input checked="" type="checkbox"/> Extra Packer <u>250.00/-</u>  | <input type="checkbox"/> Ruined Packer <u>—</u>       |
| Final Flow <u>30</u>      | <input type="checkbox"/> Extra Recorder <u>—</u>                  | <input type="checkbox"/> Extra Copies <u>—</u>        |
| Final Shut-In <u>60</u>   | <input type="checkbox"/> Day Standby <u>1d 7.5h</u>               | Sub Total <u>250</u>                                  |
|                           | <input checked="" type="checkbox"/> Accessibility <u>150.00/-</u> | Total <u>2495.50</u>                                  |
|                           | Sub Total <u>2245.50</u> <u>2628.00/-</u>                         | MP/DST Disc't <u>—</u>                                |

Approved By Ed Grieves Our Representative Mike Roberts  
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**TRILOBITE  
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48977

|                 |                                                      |           |                  |      |                                             |
|-----------------|------------------------------------------------------|-----------|------------------|------|---------------------------------------------|
| Well Name & No. | <u>Fox #1-30</u>                                     | Test No.  | <u>      </u>    | Date | <u>7-24-12</u>                              |
| Company         | <u>Raydon Exploration</u>                            | Elevation | <u>2702</u>      | KB   | <u>2712</u> GL                              |
| Address         | <u>1601 NW Expressway STE 1300 Oklahoma OK 73118</u> |           |                  |      |                                             |
| Co. Rep / Geo.  | <u>Ed Griceves</u>                                   | Rig       | <u>Tomcat #1</u> |      |                                             |
| Location: Soc.  | <u>30</u>                                            | Twp.      | <u>33S</u>       | Rge. | <u>30W</u> Co. <u>Meade</u> State <u>KS</u> |

|                     |                   |                |
|---------------------|-------------------|----------------|
| Interval Tested     | Zone Tested       |                |
| Anchor Length       | Drill Pipe Run    | Mud Wt.        |
| Top Packer Depth    | Drill Collars Run | Vis            |
| Bottom Packer Depth | Wt. Pipe Run      | WL             |
| Total Depth         | Chlorides         | ppm System LCM |
| Blow Description    |                   |                |

|     |         |      |      |        |      |
|-----|---------|------|------|--------|------|
| 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 | Feet of | %gas | %oil | %water | %mud |

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

|                         |                                                                                   |                                              |
|-------------------------|-----------------------------------------------------------------------------------|----------------------------------------------|
| (A) Initial Hydrostatic | <input type="checkbox"/> Test                                                     | T-On Location                                |
| (B) First Initial Flow  | <input type="checkbox"/> Jars                                                     | T-Started                                    |
| (C) First Final Flow    | <input type="checkbox"/> Safety Joint                                             | T-Open                                       |
| (D) Initial Shut-In     | <input type="checkbox"/> Circ Sub                                                 | T-Pulled                                     |
| (E) Second Initial Flow | <input type="checkbox"/> Hourly Standby                                           | T-Out                                        |
| (F) Second Final Flow   | <input checked="" type="checkbox"/> Mileage <u>Pack up tools</u><br><u>170.50</u> | Comments                                     |
| (G) Final Shut-In       | <input type="checkbox"/> Sampler                                                  |                                              |
| (H) Final Hydrostatic   | <input type="checkbox"/> Straddle                                                 | <input type="checkbox"/> Ruined Shale Packer |
| Initial Open            | <input type="checkbox"/> Shale Packer                                             | <input type="checkbox"/> Ruined Packer       |
| Initial Shut-In         | <input type="checkbox"/> Extra Packer                                             | <input type="checkbox"/> Extra Copies        |
| Final Flow              | <input type="checkbox"/> Extra Recorder                                           | Sub Total <u>800</u>                         |
| Final Shut-In           | <input checked="" type="checkbox"/> Day Standby <u>1d 11h</u>                     | Total <u>970.50</u>                          |
|                         | <input type="checkbox"/> Accessibility                                            | MP/DST Disc't                                |
|                         | Sub Total <u>170.50</u>                                                           |                                              |

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47069

Well Name & No. Fox #1-30 Test No. 3 Date 7/26/12  
 Company Raydon Exploration, Inc. Elevation 2712 KB 2702 GL  
 Address 1601 NW Expressway STE 1300 Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Grievens Rig Tamcat #1  
 Location: Sec. 30 Twp. 33S Rge. 30W Co. Meade State Ks

Interval Tested 5698-5720 Zone Tested Morrow  
 Anchor Length 22' Drill Pipe Run 5332 Mud Wt. 9.0  
 Top Packer Depth 5694 Drill Collars Run 355 Vis 74  
 Bottom Packer Depth 5698 Wt. Pipe Run Ø WL 7.4  
 Total Depth 5720 Chlorides 2800 ppm System LCM 10  
 Blow Description 8" Blow.  
No Return,  
64" Blow.  
No Return.

|               |                    |                |      |                  |      |
|---------------|--------------------|----------------|------|------------------|------|
| Rec <u>15</u> | Feet of <u>OCM</u> | %gas <u>10</u> | %oil | %water <u>90</u> | %mud |
| 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 15 BHT 130 Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 2742 ☒ Test 1350 T-On Location 17:50  
 (B) First Initial Flow 19 ☒ Jars 250 T-Started 20:23  
 (C) First Final Flow 28 ☒ Safety Joint 75 T-Open 23:36  
 (D) Initial Shut-In 197 ☒ Circ Sub - T-Pulled 4:14  
 (E) Second Initial Flow 23 ☒ Hourly Standby 15 hours 150 T-Out 7:38  
 (F) Second Final Flow 28 ☒ Mileage 240 R/T X2 341  
 (G) Final Shut-In 320 ☐ Sampler -  
 (H) Final Hydrostatic 2685 ☐ Straddle -

☒ Shale Packer X2 500  
☐ Extra Packer -  
☐ Extra Recorder -  
☐ Day Standby 1d 12h  
☒ Accessibility Lotwalk Shaps downw/ JMP/DST Disc't  
 Initial Open 30 ☐ Ruined Shale Packer -  
 Initial Shut-In 60 ☐ Ruined Packer -  
 Final Flow 60 ☐ Extra Copies -  
 Final Shut-In 120 Sub Total 800  
 Total 3466

Approved By [Signature] Our Representative [Signature]  
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