



## DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum Inc**

PO Box 560  
Eureka KS, 67045

ATTN: Brad Rine

### **D. Elliston #1-30**

#### **30-9s-20w Rooks,KS**

Start Date: 2015.08.16 @ 09:09:00

End Date: 2015.08.16 @ 18:38:45

Job Ticket #: 62430                      DST #: 1

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

Printed: 2015.08.19 @ 19:02:48



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Daystar Petroleum Inc  
 PO Box 560  
 Eureka KS, 67045  
 ATTN: Brad Rine

**30-9s-20w Rooks, KS**  
**D. Elliston #1-30**  
 Job Ticket: 62430 **DST#: 1**  
 Test Start: 2015.08.16 @ 09:09:00

## GENERAL INFORMATION:

Formation: **LKC "E-F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:17:45  
 Time Test Ended: 18:38:45  
 Interval: **3650.00 ft (KB) To 3673.00 ft (KB) (TVD)**  
 Total Depth: 3673.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2304.00 ft (KB)  
 2297.00 ft (CF)  
 KB to GR/CF: 7.00 ft

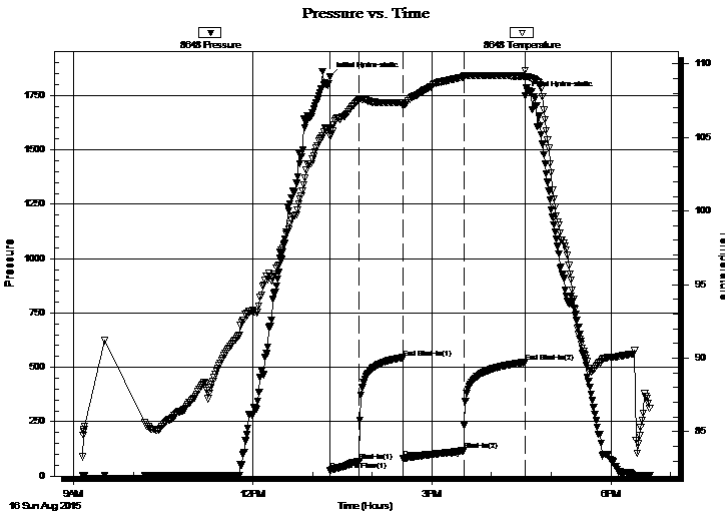
## Serial #: 8648

Inside

Press@RunDepth: 118.75 psig @ 3651.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.16 End Date: 2015.08.16 Last Calib.: 2015.08.16  
 Start Time: 09:09:05 End Time: 18:38:45 Time On Btm: 2015.08.16 @ 13:17:30  
 Time Off Btm: 2015.08.16 @ 16:33:45

TEST COMMENT: 30 - IF- 2" blow  
 45 - IS- No return  
 60 - FF- 1 1/2" blow  
 60 - FS- No return

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1835.03         | 105.64       | Initial Hydro-static |
| 1           | 25.55           | 105.09       | Open To Flow (1)     |
| 30          | 69.31           | 107.56       | Shut-In(1)           |
| 74          | 543.48          | 107.36       | End Shut-In(1)       |
| 74          | 80.02           | 107.13       | Open To Flow (2)     |
| 135         | 118.75          | 109.12       | Shut-In(2)           |
| 196         | 523.61          | 109.16       | End Shut-In(2)       |
| 197         | 1747.03         | 109.56       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 124.00      | MW, 20%M, 80%W | 0.61         |
| 82.00       | WM, 30%W, 70%M | 0.91         |
|             |                |              |
|             |                |              |
|             |                |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Daystar Petroleum Inc

**30-9s-20w Rooks,KS**

PO Box 560  
Eureka KS, 67045

**D. Elliston #1-30**

Job Ticket: 62430

**DST#: 1**

ATTN: Brad Rine

Test Start: 2015.08.16 @ 09:09:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3491.00 ft | Diameter: 3.80 inches | Volume: 48.97 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: 30000.00 lb  |
| Drill Collar:             | Length: 150.00 ft  | Diameter: 2.25 inches | Volume: 0.74 bbl               | Weight to Pull Loose: 54000.00 lb  |
|                           |                    |                       | <u>Total Volume: 49.71 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                                | String Weight: Initial 50000.00 lb |
| Depth to Top Packer:      | 3650.00 ft         |                       |                                | Final 50000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 23.00 ft           |                       |                                |                                    |
| Tool Length:              | 51.00 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        |            |          | 3623.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3628.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3633.00    |                               |
| Jars             | 5.00        |            |          | 3638.00    |                               |
| Safety Joint     | 3.00        |            |          | 3641.00    |                               |
| Packer           | 5.00        |            |          | 3646.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 3650.00    |                               |
| Stubb            | 1.00        |            |          | 3651.00    |                               |
| Recorder         | 0.00        | 8648       | Inside   | 3651.00    |                               |
| Recorder         | 0.00        | 8940       | Outside  | 3651.00    |                               |
| Perforations     | 19.00       |            |          | 3670.00    |                               |
| Bullnose         | 3.00        |            |          | 3673.00    | 23.00 Bottom Packers & Anchor |

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Daystar Petroleum Inc

**30-9s-20w Rooks,KS**

PO Box 560  
Eureka KS, 67045

**D. Elliston #1-30**

Job Ticket: 62430

**DST#: 1**

ATTN: Brad Rine

Test Start: 2015.08.16 @ 09:09:00

### 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:

28000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 124.00       | MW, 20%M, 80%W | 0.610         |
| 82.00        | WM, 30%W, 70%M | 0.913         |

Total Length: 206.00 ft      Total Volume: 1.523 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides: .3 @ 65 Degrees = 28,000

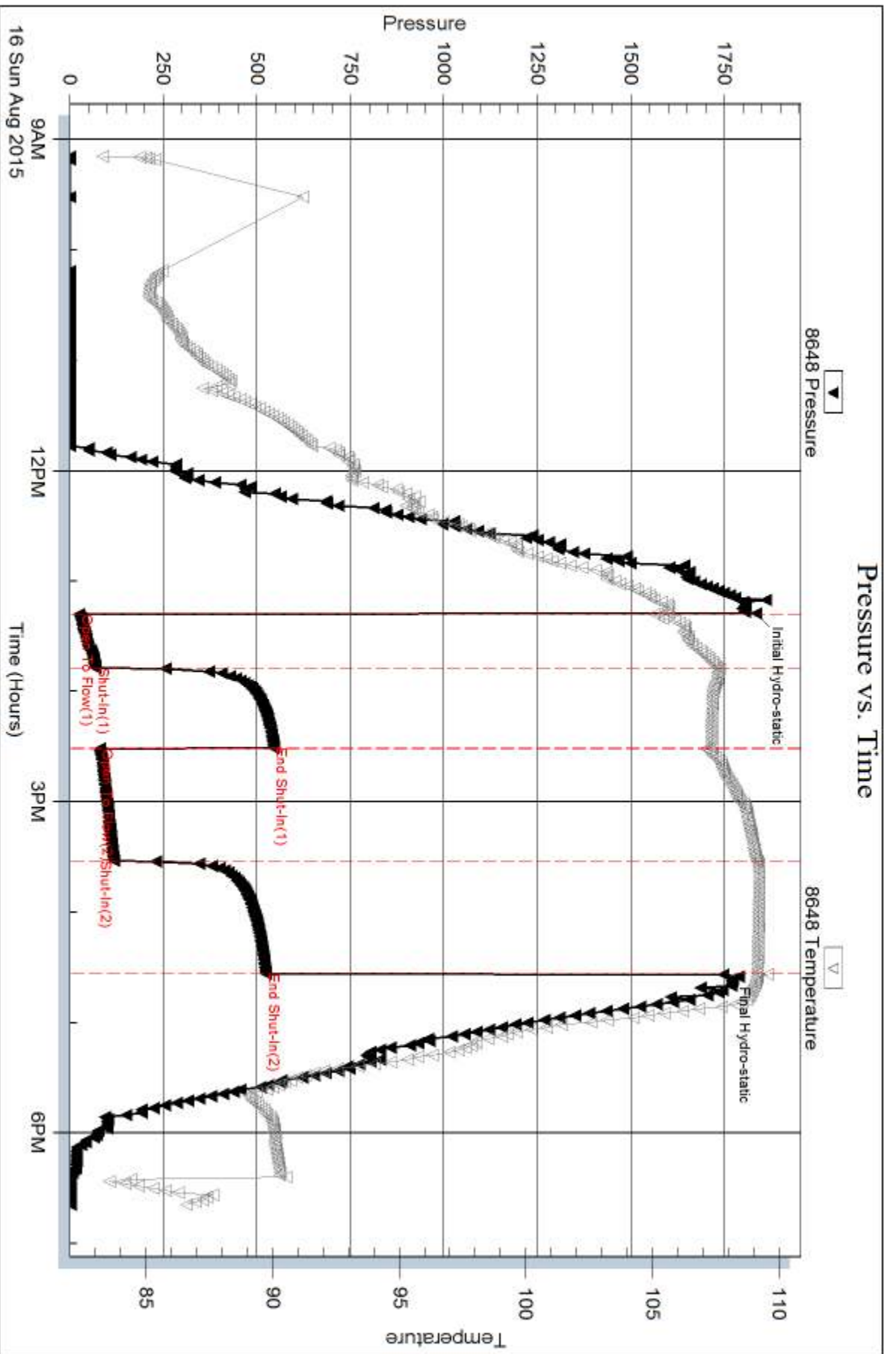
Serial #: 8648

Inside

Daystar Petroleum Inc

D. Elliston #1-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62430

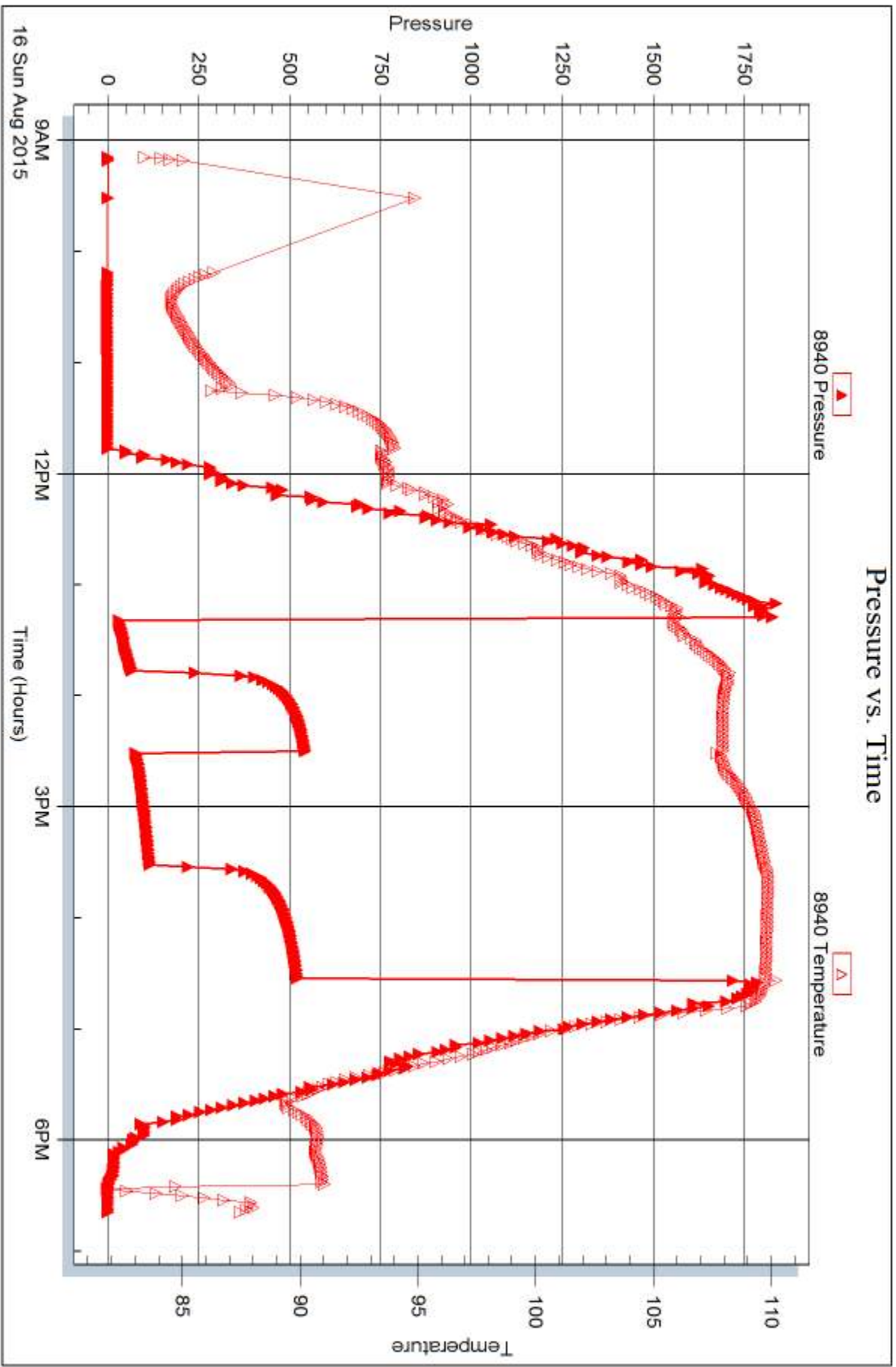
Printed: 2015.08.19 @ 19:02:49

Serial #: 8940

Outside Daystar Petroleum Inc

D. Elliston #1-30

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum Inc**

PO Box 560  
Eureka KS, 67045

ATTN: Brad Rine

### **D. Elliston #1-30**

#### **30-9s-20w Rooks,KS**

Start Date: 2015.08.17 @ 12:54:00

End Date: 2015.08.17 @ 20:48:45

Job Ticket #: 62431                      DST #: 2

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

Printed: 2015.08.19 @ 18:28:38





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Daystar Petroleum Inc  
 PO Box 560  
 Eureka KS, 67045  
 ATTN: Brad Rine

**30-9s-20w Rooks, KS**

**D. Elliston #1-30**

Job Ticket: 62431

**DST#: 2**

Test Start: 2015.08.17 @ 12:54:00

## GENERAL INFORMATION:

Formation: **LKC "H-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:37:15  
 Time Test Ended: 20:48:45  
 Interval: **3700.00 ft (KB) To 3809.00 ft (KB) (TVD)**  
 Total Depth: 3809.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2304.00 ft (KB)  
 2297.00 ft (CF)  
 KB to GR/CF: 7.00 ft

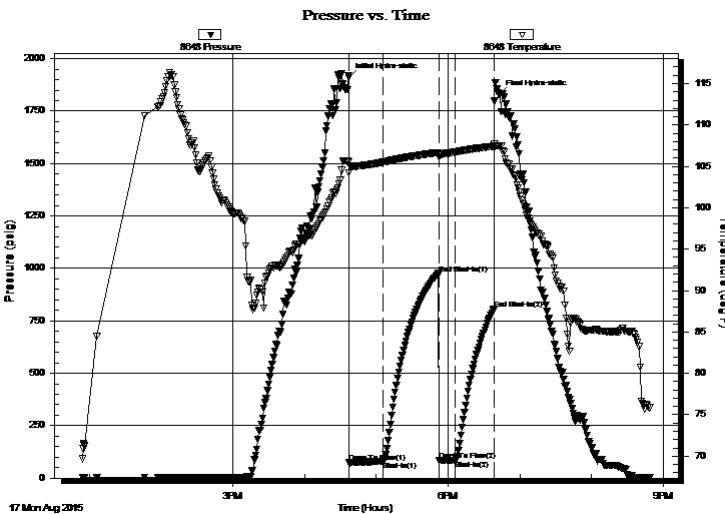
## Serial #: 8648

Inside

Press@RunDepth: 84.68 psig @ 3801.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.17 End Date: 2015.08.17 Last Calib.: 2015.08.17  
 Start Time: 12:54:05 End Time: 20:48:44 Time On Btm: 2015.08.17 @ 16:37:00  
 Time Off Btm: 2015.08.17 @ 18:42:30

TEST COMMENT: 30 - IF- 1/4" blow , died back to surface blow  
 45 - IS- No return  
 15 - FF- Surged and died  
 30 - FS- No return

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1910.19         | 105.49       | Initial Hydro-static |
| 1           | 74.45           | 104.26       | Open To Flow (1)     |
| 29          | 80.03           | 105.48       | Shut-In(1)           |
| 75          | 975.69          | 106.68       | End Shut-In(1)       |
| 76          | 82.93           | 106.09       | Open To Flow (2)     |
| 89          | 84.68           | 106.73       | Shut-In(2)           |
| 122         | 804.17          | 107.42       | End Shut-In(2)       |
| 126         | 1829.91         | 107.51       | Final Hydro-static   |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 25.00       | Mud, 100%M       | 0.12         |
| 5.00        | VSOCM, 5%O, 95%M | 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**

Daystar Petroleum Inc

**30-9s-20w Rooks,KS**

PO Box 560  
Eureka KS, 67045

**D. Elliston #1-30**

Job Ticket: 62431

**DST#: 2**

ATTN: Brad Rine

Test Start: 2015.08.17 @ 12:54:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3554.00 ft | Diameter: 3.80 inches | Volume: 49.85 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: 2500.00 lb   |
| Drill Collar:             | Length: 150.00 ft  | Diameter: 2.25 inches | Volume: 0.74 bbl               | Weight to Pull Loose: 54000.00 lb  |
|                           |                    |                       | <u>Total Volume: 50.59 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 32.00 ft           |                       |                                | String Weight: Initial 50000.00 lb |
| Depth to Top Packer:      | 3700.00 ft         |                       |                                | Final 50000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 109.00 ft          |                       |                                |                                    |
| Tool Length:              | 137.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

## Tool Description

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

| Tool Description          | Length (ft)   | Serial No. | Position | Depth (ft) | Accum. Lengths                 |
|---------------------------|---------------|------------|----------|------------|--------------------------------|
| Change Over Sub           | 1.00          |            |          | 3673.00    |                                |
| Shut In Tool              | 5.00          |            |          | 3678.00    |                                |
| Hydraulic tool            | 5.00          |            |          | 3683.00    |                                |
| Jars                      | 5.00          |            |          | 3688.00    |                                |
| Safety Joint              | 3.00          |            |          | 3691.00    |                                |
| Packer                    | 5.00          |            |          | 3696.00    | 28.00 Bottom Of Top Packer     |
| Packer                    | 4.00          |            |          | 3700.00    |                                |
| Stubb                     | 1.00          |            |          | 3701.00    |                                |
| Perforations              | 5.00          |            |          | 3706.00    |                                |
| Change Over Sub           | 1.00          |            |          | 3707.00    |                                |
| Drill Pipe                | 93.00         |            |          | 3800.00    |                                |
| Change Over Sub           | 1.00          |            |          | 3801.00    |                                |
| Recorder                  | 0.00          | 8648       | Inside   | 3801.00    |                                |
| Recorder                  | 0.00          | 8940       | Outside  | 3801.00    |                                |
| Perforations              | 5.00          |            |          | 3806.00    |                                |
| Bullnose                  | 3.00          |            |          | 3809.00    | 109.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>137.00</b> |            |          |            |                                |



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Daystar Petroleum Inc

**30-9s-20w Rooks,KS**

PO Box 560  
Eureka KS, 67045

**D. Elliston #1-30**

Job Ticket: 62431

**DST#: 2**

ATTN: Brad Rine

Test Start: 2015.08.17 @ 12:54:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 25.00        | Mud, 100%M       | 0.123         |
| 5.00         | VSOCM, 5%O, 95%M | 0.025         |

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

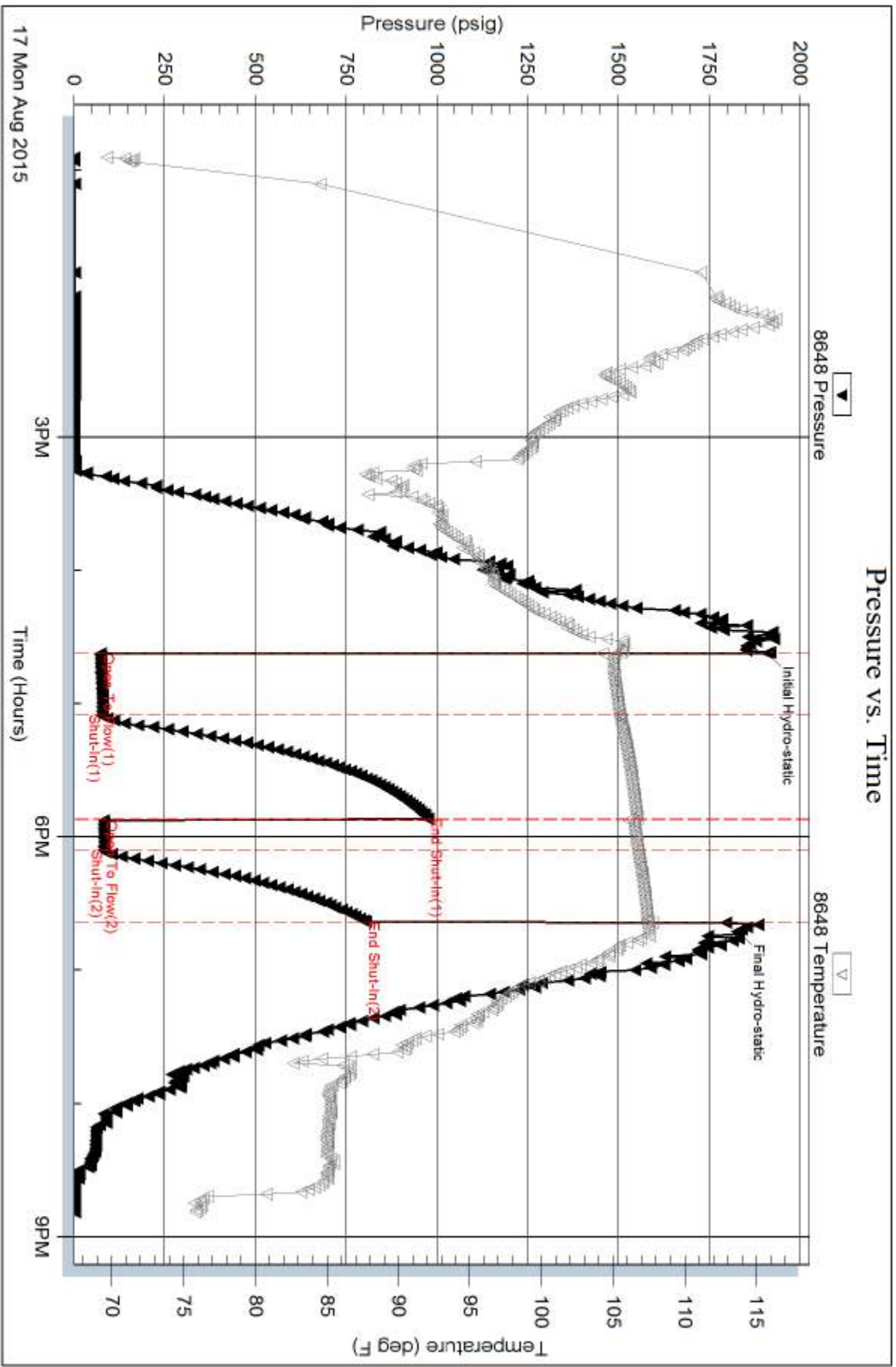
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

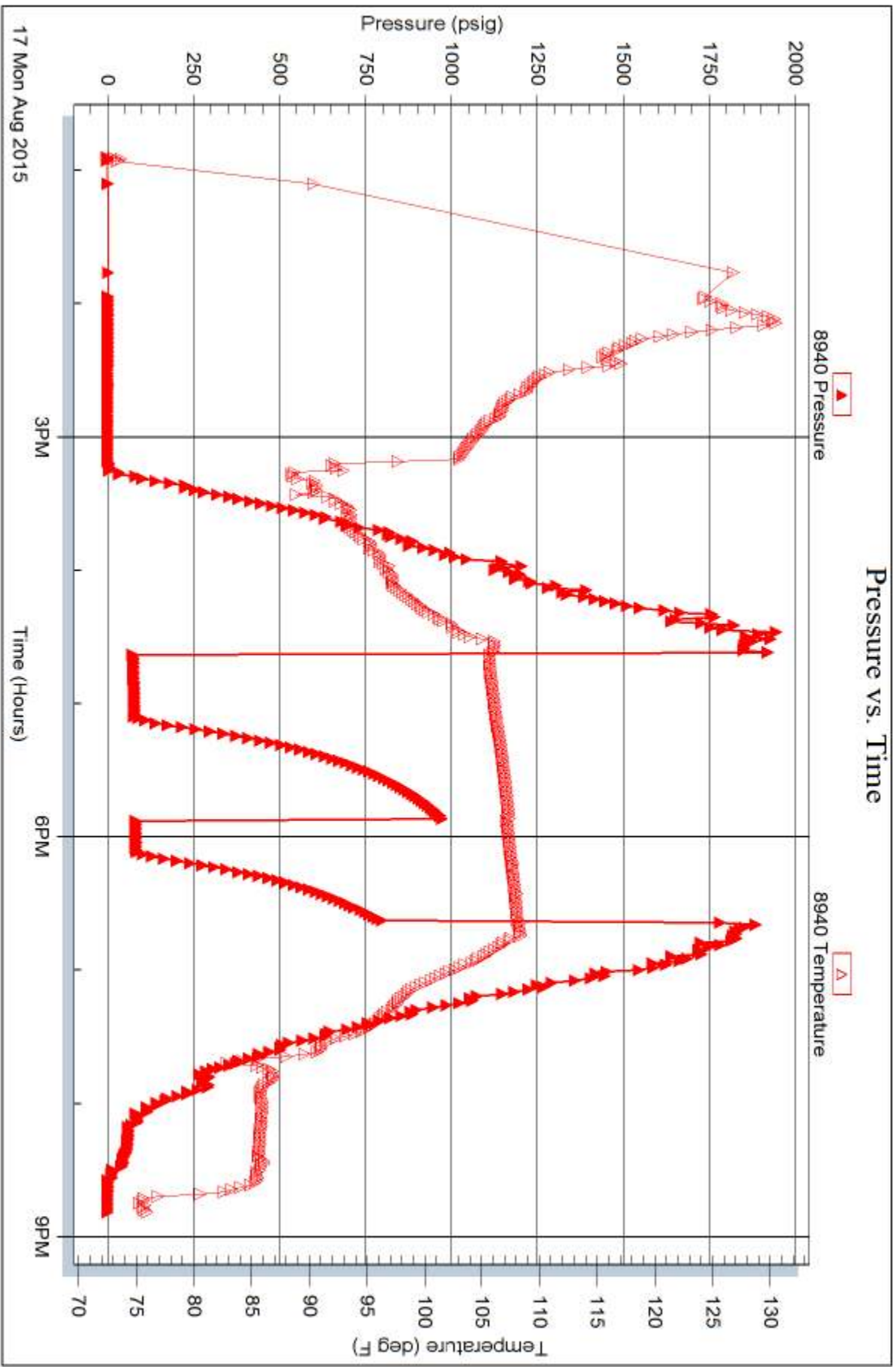


Serial #: 8940

Outside Daystar Petroleum Inc

D. Elliston #1-30

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62430

Well Name & No. D. Elliston 1-30 Test No. 1 Date 8-16-15  
 Company Daystar Petroleum Inc Elevation 2304 KB 2298 GL  
 Address Po Box 560, Eureka KS, 67045  
 Co. Rep / Geo. Brad Rine Rig Skytop Drilling LLC  
 Location: Sec. 30 Twp. 9S Rge. 20W Co. Rooks State KS

Interval Tested 3650 - 3673 Zone Tested LKC "E-F"  
 Anchor Length 23' Drill Pipe Run 3491' Mud Wt. 9.1 9.3  
 Top Packer Depth 3645 Drill Collars Run 150' Vis 64 56  
 Bottom Packer Depth 3650 Wt. Pipe Run — WL 7.2 7.2  
 Total Depth 3673 Chlorides 1900 2000 ppm System LCM 2 2  
 Blow Description IF- 2" blow  
ISI- No return  
FF- 1 1/2" blow  
FSI- No return

| Rec        | Feet of   | %gas | %oil | %water     | %mud       |
|------------|-----------|------|------|------------|------------|
| <u>124</u> | <u>MW</u> |      |      | <u>50%</u> | <u>20%</u> |
| <u>82</u>  | <u>WM</u> |      |      | <u>30%</u> | <u>70%</u> |
|            |           |      |      |            |            |
|            |           |      |      |            |            |
|            |           |      |      |            |            |

Rec Total 206' BHT 109° Gravity — API RW .3 @ 65° F Chlorides 28,000 ppm

|                                     |   |   |
|-------------------------------------|---|---|
| (A) Initial Hydrostatic <u>1835</u> | <input checked="" type="checkbox"/> Test <u>1050</u>              | T-On Location <u>0832</u>                             |
| (B) First Initial Flow <u>25</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>               | T-Started <u>0909</u>                                 |
| (C) First Final Flow <u>69</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u>        | T-Open <u>1317</u>                                    |
| (D) Initial Shut-In <u>543</u>      | <input type="checkbox"/> Circ Sub <u>—</u>                        | T-Pulled <u>1632</u>                                  |
| (E) Second Initial Flow <u>80</u>   | <input checked="" type="checkbox"/> Hourly Standby <u>.25h 20</u> | T-Out <u>1838</u>                                     |
| (F) Second Final Flow <u>118</u>    | <input checked="" type="checkbox"/> Mileage <u>96RT</u>           | Comments <u>Suppose to be on</u>                      |
| (G) Final Shut-In <u>523</u>        | <input type="checkbox"/> Sampler <u>—</u>                         | <u>bank @ 09:30</u>                                   |
| (H) Final Hydrostatic <u>1747</u>   | <input type="checkbox"/> Straddle <u>—</u>                        | <input type="checkbox"/> Ruined Shale Packer <u>—</u> |
|                                     | <input type="checkbox"/> Shale Packer <u>—</u>                    | <input type="checkbox"/> Ruined Packer <u>—</u>       |
| Initial Open <u>30</u>              | <input type="checkbox"/> Extra Packer <u>—</u>                    | <input type="checkbox"/> Extra Copies <u>—</u>        |
| Initial Shut-In <u>45</u>           | <input type="checkbox"/> Extra Recorder <u>—</u>                  | Sub Total <u>0</u>                                    |
| Final Flow <u>60</u>                | <input type="checkbox"/> Day Standby <u>—</u>                     | Total <u>1491</u>                                     |
| Final Shut-In <u>60</u>             | <input type="checkbox"/> Accessibility <u>—</u>                   | MP/DST Disc't <u>—</u>                                |
|                                     | Sub Total <u>1491</u>   |   |

Approved By \_\_\_\_\_ Our Representative Cody Blackburn Thank You!!

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. 62431

Well Name & No. D. Elliston 1-30 Test No. 2 Date 8-17-15  
 Company Daystar Petroleum Inc Elevation 2304 KB 2298 GL  
 Address Po Box 560, Eureka KS, 67045  
 Co. Rep / Geo. Brad Rine Rig skytop  
 Location: Sec. 30 Twp. 9s Rge. 20W Co. Rooks State KS

Interval Tested 3700-3809 Zone Tested LKC "H-L"  
 Anchor Length 109' Drill Pipe Run 3554 Mud Wt. 9.3  
 Top Packer Depth 3695 Drill Collars Run 150' Vis 53  
 Bottom Packer Depth 3700 Wt. Pipe Run — WL 7.8  
 Total Depth 3809 Chlorides 2,000 ppm System LCM 2  
 Blow Description IF- 1/4" blow, died back to surface blow  
ISI- No return  
FF- surged & died  
FSI- No return

| Rec       | Feet of      | %gas | %oil     | %water     | %mud |
|-----------|--------------|------|----------|------------|------|
| <u>25</u> | <u>Mud</u>   |      |          | <u>100</u> |      |
| <u>5</u>  | <u>VSOCM</u> |      | <u>5</u> | <u>95</u>  |      |
|           |              |      |          |            |      |
|           |              |      |          |            |      |
|           |              |      |          |            |      |

Rec Total 30' BHT 107° Gravity — API RW — @ — °F Chlorides — ppm

|                                     |  |  |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1910</u> | <input checked="" type="checkbox"/> Test <u>1050</u>             | T-On Location <u>1235</u>                    |
| (B) First Initial Flow <u>74</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>              | T-Started <u>1254</u>                        |
| (C) First Final Flow <u>80</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u>       | T-Open <u>1636</u>                           |
| (D) Initial Shut-In <u>975</u>      | <input type="checkbox"/> Circ Sub                                | T-Pulled <u>1836</u>                         |
| (E) Second Initial Flow <u>82</u>   | <input type="checkbox"/> Hourly Standby                          | T-Out <u>2048</u>                            |
| (F) Second Final Flow <u>84</u>     | <input checked="" type="checkbox"/> Mileage <u>96RTx2 +96</u>    | Comments <u>Loaded tools 8-19-15</u>         |
| (G) Final Shut-In <u>804</u>        | <input type="checkbox"/> Sampler                                 | <u>@1023</u>                                 |
| (H) Final Hydrostatic <u>1829</u>   | <input type="checkbox"/> Straddle                                | <input type="checkbox"/> Ruined Shale Packer |
|                                     | <input type="checkbox"/> Shale Packer                            | <input type="checkbox"/> Ruined Packer       |
|                                     | <input type="checkbox"/> Extra Packer                            | <input type="checkbox"/> Extra Copies        |
|                                     | <input type="checkbox"/> Extra Recorder                          | Sub Total <u>800</u>                         |
|                                     | <input checked="" type="checkbox"/> Day Standby <u>1.5d 1.5h</u> | Total <u>2387</u>                            |
|                                     | <input type="checkbox"/> Accessibility                           | MP/DST Disc't                                |
|                                     | Sub Total <u>1587</u>  |  |

Approved By \_\_\_\_\_ Our Representative Cody Blum

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.