

**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Fourwinds Oil Corporation

**28-5S-21W Norton, KS**

P.O. Box 1063  
Hays, KS 67601

**Glennemeier B #1**

Job Ticket: 65344

**DST#: 1**

ATTN: Jeff Lawler

Test Start: 2019.03.05 @ 02:00:00

## GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:36:30

Time Test Ended: 09:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

**Interval: 3710.00 ft (KB) To 3716.00 ft (KB) (TVD)**

Reference Elevations: 2282.00 ft (KB)

Total Depth: 3716.00 ft (KB) (TVD)

2274.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8959**

**Inside**

Press @ Run Depth: 85.22 psig @ 3711.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.05

End Date:

2019.03.05

Last Calib.: 2019.03.05

Start Time: 02:00:01

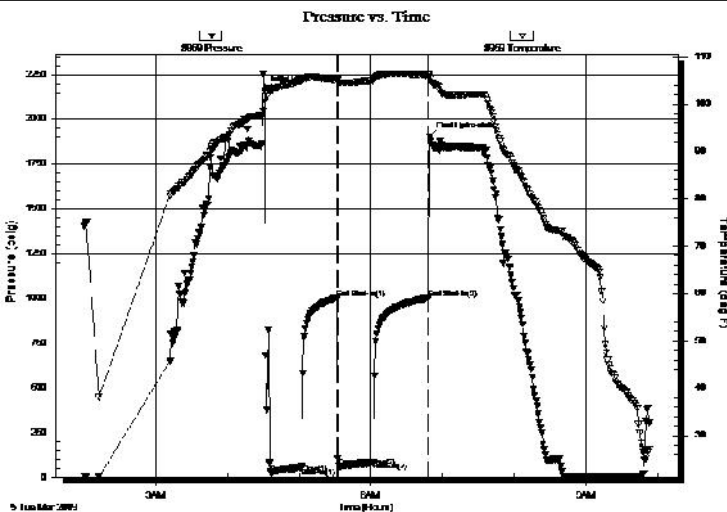
End Time:

09:53:00

Time On Btm: 2019.03.05 @ 04:31:00

Time Off Btm: 2019.03.05 @ 06:49:00

**TEST COMMENT:** 30-IF-1/8" blow decreased to surface blow  
30-ISI-No blow  
30-FF-Weak surface blow dead @ 25 mins  
45-FSI-No blow



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2156.77         | 100.73       | Initial Hydro-static |
| 6           | 26.99           | 103.16       | Open To Flow (1)     |
| 31          | 57.29           | 105.07       | Shut-In(1)           |
| 61          | 1002.39         | 105.17       | End Shut-In(1)       |
| 63          | 62.45           | 104.52       | Open To Flow (2)     |
| 91          | 85.22           | 105.03       | Shut-In(2)           |
| 138         | 1002.43         | 106.10       | End Shut-In(2)       |
| 138         | 1900.31         | 106.22       | Final Hydro-static   |

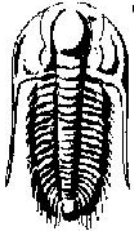
## Recovery

| Length (ft) | Description           | Volume (bbl) |
|-------------|-----------------------|--------------|
| 30.00       | GOCM 20%G, 25%O, 55%M | 0.22         |
| 161.00      | CGO 60%G, 40%O        | 1.18         |
|             |                       |              |
|             |                       |              |
|             |                       |              |

## Gas Rates

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





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**FLUID SUMMARY**

Fourwinds Oil Corporation

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P.O. Box 1063  
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**Glennemeier B #1**

Job Ticket: 65344

**DST#: 1**

ATTN: Jeff Lawler

Test Start: 2019.03.05 @ 02:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description           | Volume<br>bbbl |
|--------------|-----------------------|----------------|
| 30.00        | GOCM 20%G, 25%O, 55%M | 0.220          |
| 161.00       | CGO 60%G, 40%O        | 1.183          |

Total Length: 191.00 ft      Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 22 @ 28 degs

Gravity corrected to 25.2 @ 60 degs

Serial #: 8959

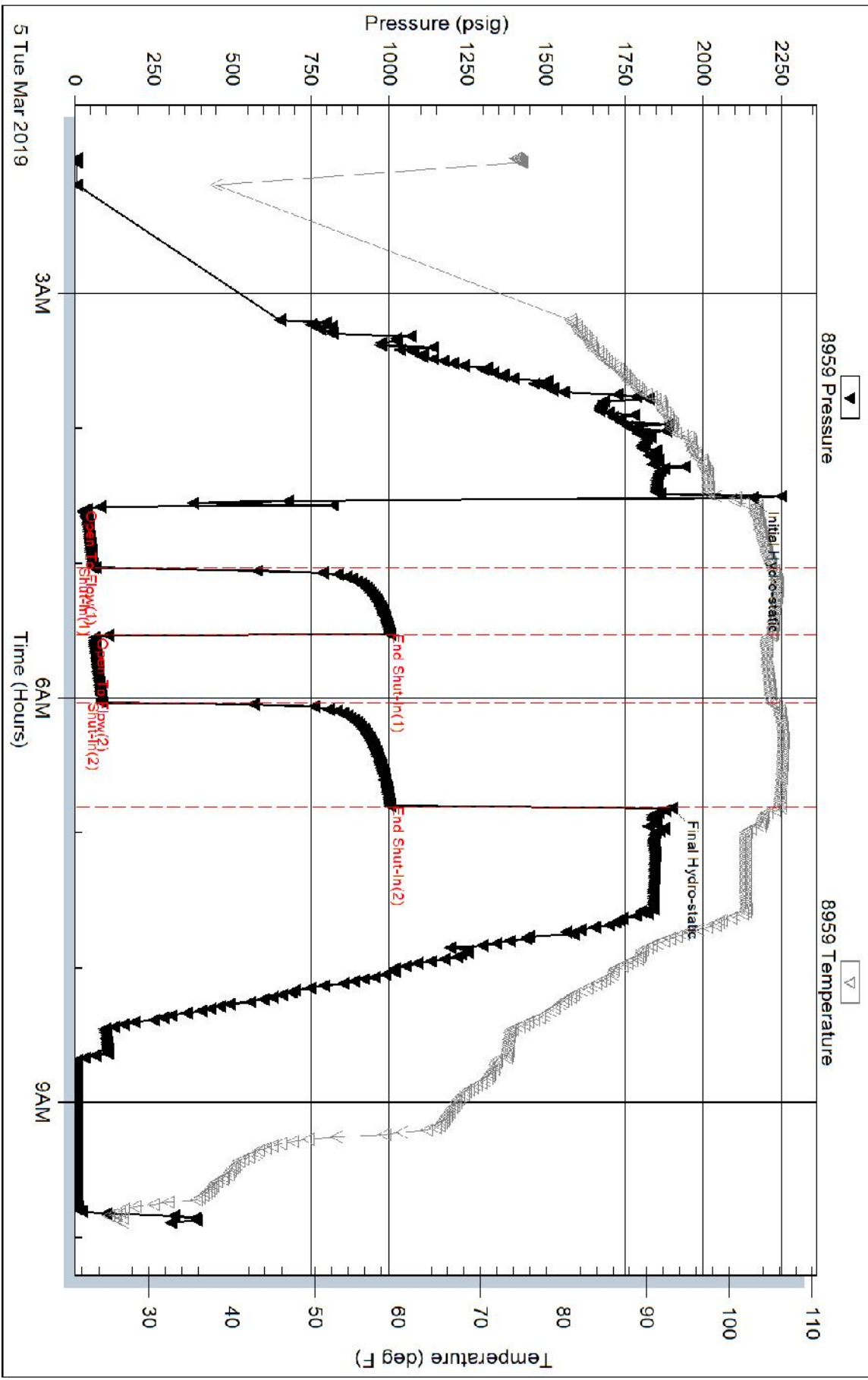
Inside

Fourwinds Oil Corporation

Glennmeier B#1

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65344

Printed: 2019.03.05 @ 10:47:04

Serial #: 8734

Outside

Fourw/inds Oil Corporation

Glennmeier B #1

DST Test Number: 1

