



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Black Tea Oil, LLC  
 1011 Centennial Blvd Ste. B  
 Hays, Ks 67601  
 ATTN: Chris Leiker/ Kevin

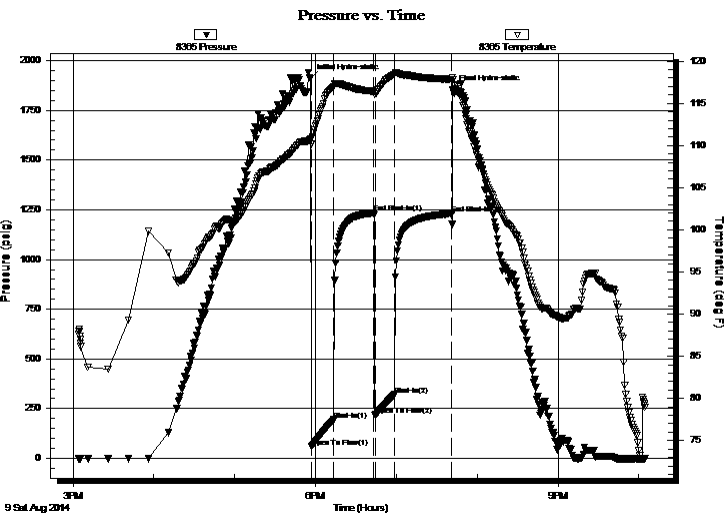
**20 13s 34w Logan, Ks**  
**Pahls A-1**  
 Job Ticket: 59142      **DST#: 1**  
 Test Start: 2014.08.09 @ 15:04:00

**GENERAL INFORMATION:**

Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:56:45  
 Time Test Ended: 22:04:28  
**Interval: 3920.00 ft (KB) To 3970.00 ft (KB) (TVD)**  
 Total Depth: 3970.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2958.00 ft (KB)  
 2949.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8365 Inside**  
 Press @ Run Depth: 319.57 psig @ 3921.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.08.09 End Date: 2014.08.09 Last Calib.: 2014.08.09  
 Start Time: 15:04:05 End Time: 22:04:28 Time On Btm: 2014.08.09 @ 17:56:15  
 Time Off Btm: 2014.08.09 @ 19:41:30

**TEST COMMENT:** IF: BOB @ 2 min.  
 IS: No return.  
 FF: BOB @ 5 min.  
 FS: No return.



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1910.59         | 110.77       | Initial Hydro-static |
| 1           | 57.89           | 110.15       | Open To Flow (1)     |
| 17          | 192.39          | 116.92       | Shut-In(1)           |
| 47          | 1235.23         | 116.41       | End Shut-In(1)       |
| 48          | 218.56          | 116.08       | Open To Flow (2)     |
| 63          | 319.57          | 118.42       | Shut-In(2)           |
| 105         | 1231.36         | 117.79       | End Shut-In(2)       |
| 106         | 1853.47         | 118.09       | Final Hydro-static   |

**Recovery**

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 645.00      | mcw 10m 90w | 8.52         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

**Gas Rates**

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



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**FLUID SUMMARY**

Black Tea Oil, LLC

**20 13s 34w Logan, Ks**

1011 Centennial Blvd Ste. B  
Hays, Ks 67601

**Pahls A-1**

Job Ticket: 59142

**DST#: 1**

ATTN: Chris Leiker/ Kevin

Test Start: 2014.08.09 @ 15:04:00

## 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:

25000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 645.00       | mcw 10m 90w | 8.519         |

Total Length: 645.00 ft      Total Volume: 8.519 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .280 @ 66F = 25,000ppm

# Pressure vs. Time

