



DRILL STEM TEST REPORT

Prepared For: **Black Tea Oil LLC**

1011 Centennial Boulevard
Suite B
Hays, Kansas 67601

ATTN:

Krebs S-1

26/14S/32W/Logan

Start Date: 2014.02.17 @ 00:34:00

End Date: 2014.02.17 @ 05:18:30

Job Ticket #: 18245 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2014.02.17 @ 05:27:11



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DST#: 1

Test Start: 2014.02.17 @ 00:34:00

GENERAL INFORMATION:

Formation: **Pawnee/Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:40:30

Time Test Ended: 05:18:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/50

Interval: 4243.00 ft (KB) To 4276.00 ft (KB) (TVD)

Reference Elevations: 2765.00 ft (KB)

Total Depth: 4276.00 ft (KB) (TVD)

2758.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 6749

Inside

Press@RunDepth: 49.54 psig @ 4272.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.17

End Date: 2014.02.17

Last Calib.: 2014.02.17

Start Time: 00:34:00

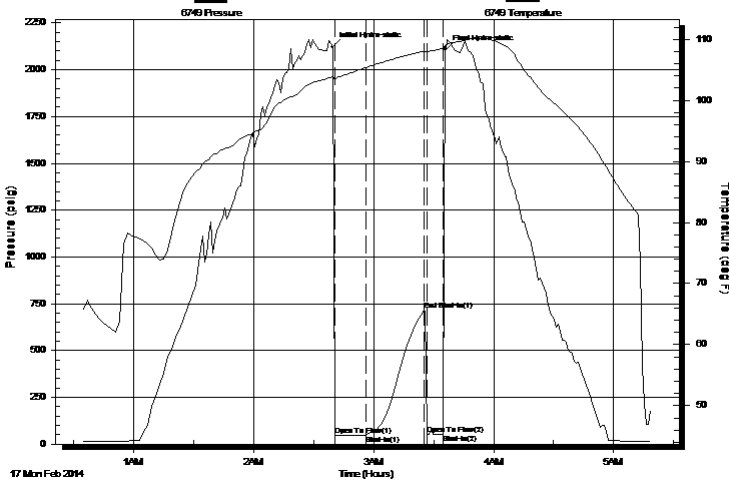
End Time: 05:18:30

Time On Btm: 2014.02.17 @ 02:39:30

Time Off Btm: 2014.02.17 @ 03:36:00

TEST COMMENT: 1ST Open 15 Minutes/Weak blow /Blow built to 1/8 inch in bucket of diesel
1ST Shut In 30 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow /Flush tool no help/Pull test

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2121.57 | 103.85 | Initial Hydro-static |
| 1 | 46.81 | 103.31 | Open To Flow (1) |
| 17 | 49.54 | 105.35 | Shut-In(1) |
| 46 | 715.75 | 108.01 | End Shut-In(1) |
| 47 | 50.74 | 107.98 | Open To Flow (2) |
| 55 | 53.75 | 108.49 | Shut-In(2) |
| 57 | 2107.64 | 109.09 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00 | Mud 100% | 0.07 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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Total Depth: 4276.00 ft (KB) (TVD)

2758.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8938 Outside

Press@RunDepth: 720.78 psig @ 4273.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.17

End Date: 2014.02.17

Last Calib.: 2014.02.17

Start Time: 00:34:00

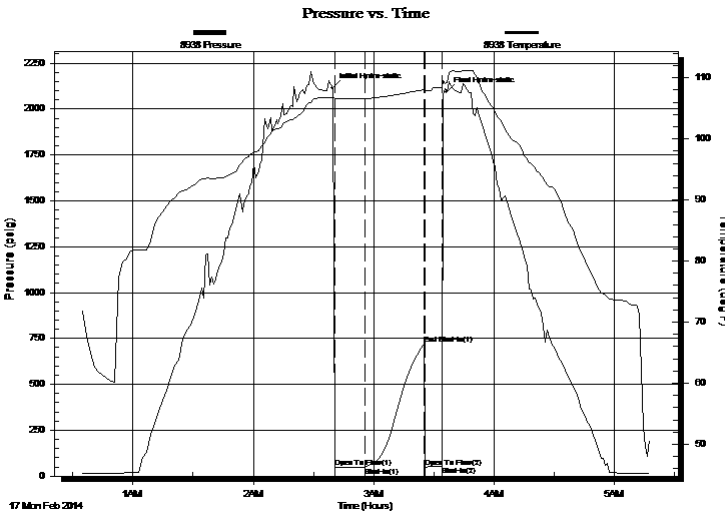
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PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2115.56 | 106.76 | Initial Hydro-static |
| 1 | 47.12 | 106.60 | Open To Flow (1) |
| 16 | 49.41 | 106.61 | Shut-In(1) |
| 46 | 720.78 | 108.03 | End Shut-In(1) |
| 46 | 50.38 | 107.85 | Open To Flow (2) |
| 55 | 53.55 | 108.46 | Shut-In(2) |
| 57 | 2094.76 | 109.30 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00 | Mud 100% | 0.07 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Tea Oil LLC

26/14S/32W/Logan

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Job Ticket: 18245

DST#: 1

Test Start: 2014.02.17 @ 00:34:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4215.00 ft | Diameter: 3.80 inches | Volume: 59.13 bbl | Tool Weight: 2000.00 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: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 98000.00 lb |
| | | | <u>Total Volume: 59.28 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 22.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 4243.00 ft | | | Final 60000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 33.00 ft | | | |
| Tool Length: | 53.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments: Shale packer used

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------------------|
| Shut-In Tool | 5.00 | | | 4228.00 | |
| Hydraulic tool | 5.00 | | | 4233.00 | |
| Top Packer | 5.00 | | | 4238.00 | |
| Packer | 5.00 | | | 4243.00 | 20.00 Bottom Of Top Packer |
| Anchor | 28.00 | | | 4271.00 | |
| Recorder | 1.00 | 6749 | Inside | 4272.00 | |
| Recorder | 1.00 | 8938 | Outside | 4273.00 | |
| Bullnose | 3.00 | | | 4276.00 | 33.00 Anchor Tool |

Total Tool Length: 53.00



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FLUID SUMMARY

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Mud and Cushion Information

| | | | | | |
|--------------|----------------------|-----------------------|------|-----------------|---------|
| Mud Type: | Polymer | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbbl | | |
| Water Loss: | 8.00 in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 5000.00 ppm | | | | |
| Filter Cake: | 1.00 inches | | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------|----------------|
| 15.00 | Mud 100% | 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 #: 6749

Inside

Black Tea Oil LLC

Krebs S-1

DST Test Number: 1

