



## DRILL STEM TEST REPORT

Prepared For: **Black Tea Oil L.L.C**

1011 Centennial Blvd Ste B Hays KS 67601

ATTN: Kevin Bailey

### **Krebs R #1**

### **26-14-32 Logan**

Start Date: 2014.01.20 @ 21:09:00

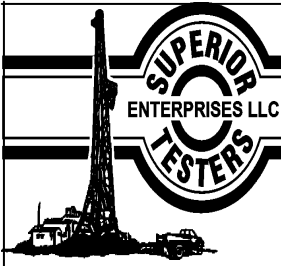
End Date: 2014.01.21 @ 04:31:00

Job Ticket #: 17050                      DST #: 1

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

Printed: 2014.01.21 @ 04:50:42

Black Tea Oil L.L.C  
26-14-32 Logan  
Krebs R #1  
DST # 1  
KC "K&L"  
2014.01.20



# DRILL STEM TEST REPORT

Black Tea Oil L.L.C

**26-14-32 Logan**

1011 Centennial Blvd Ste B Hays KS 67601

**Krebs R #1**

Job Ticket: 17050

**DST#: 1**

ATTN: Kevin Bailey

Test Start: 2014.01.20 @ 21:09:00

## GENERAL INFORMATION:

Formation: **KC "K&L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:00

Time Test Ended: 04:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3335-Scott City-

**Interval: 3934.00 ft (KB) To 4002.00 ft (KB) (TVD)**

Reference Elevations: 2680.00 ft (KB)

Total Depth: 4002.00 ft (KB) (TVD)

2671.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

## Serial #: 8400

Press@RunDepth: 234.02 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.20

End Date:

2014.01.21

Last Calib.:

2014.01.21

Start Time: 21:09:00

End Time:

04:31:00

Time On Btm:

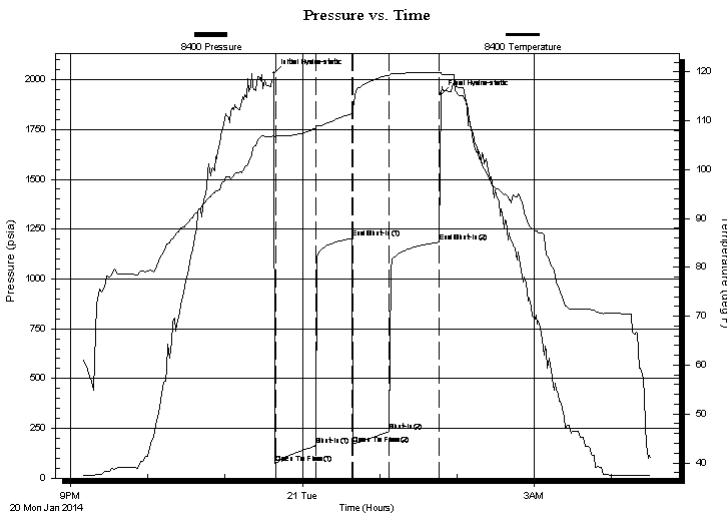
2014.01.20 @ 23:38:00

Time Off Btm:

2014.01.21 @ 01:47:30

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built bottom of bucket in 20 minutes  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 30 Minutes-Fair blow built bottom of bucket in 23 minutes  
 2nd Shut-in 30 Minutes-No blow back

## PRESSURE SUMMARY



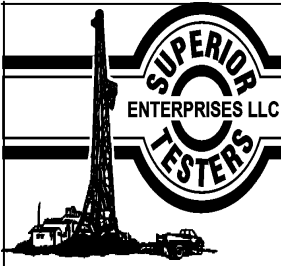
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2032.82	107.03	Initial Hydro-static
1	74.63	106.76	Open To Flow (1)
33	167.52	108.57	Shut-In(1)
61	1203.82	111.51	End Shut-In(1)
62	171.11	112.48	Open To Flow (2)
90	234.02	119.34	Shut-In(2)
128	1183.94	119.77	End Shut-In(2)
130	1927.30	119.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	w ater 10% mud 90% w ater	3.39
10.00	mud w ater 50% mud 50% w ater	0.14
0.00	Chlorides 25,000 resistivity .2@60degree	0.00

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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**26-14-32 Logan**

1011 Centennial Blvd Ste B Hays KS 67601

**Krebs R #1**

Job Ticket: 17050

**DST#: 1**

ATTN: Kevin Bailey

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Time Test Ended: 04:31:00

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Tester: Jared Scheck

Unit No: 3335-Scott City-

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Reference Elevations: 2680.00 ft (KB)

Total Depth: 4002.00 ft (KB) (TVD)

2671.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

## Serial #: 6731

Press@RunDepth: 1188.38 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.20

End Date:

2014.01.21

Last Calib.:

2014.01.21

Start Time: 21:09:00

End Time:

04:31:00

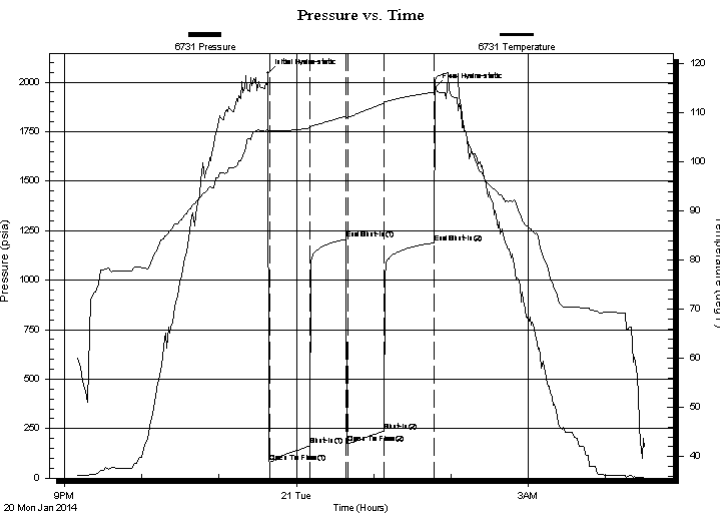
Time On Btm:

2014.01.20 @ 23:38:00

Time Off Btm:

2014.01.21 @ 01:48:00

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built bottom of bucket in 20 minutes  
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## PRESSURE SUMMARY

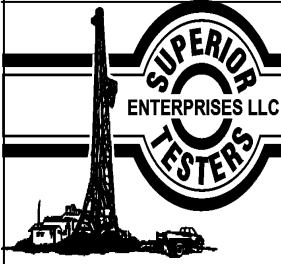
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2044.60	106.57	Initial Hydro-static
1	79.62	106.41	Open To Flow (1)
33	163.85	106.96	Shut-In(1)
61	1206.64	109.34	End Shut-In(1)
62	174.21	109.11	Open To Flow (2)
90	238.06	111.93	Shut-In(2)
129	1188.38	114.21	End Shut-In(2)
130	1970.84	116.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	w ater 10% mud 90% w ater	3.39
10.00	mud w ater 50% mud 50% w ater	0.14
0.00	Chlorides 25,000 resistivity .2@60degree	0.00

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Tea Oil L.L.C  
 1011 Centennial Blvd Ste B Hays KS 67601  
 ATTN: Kevin Bailey

**26-14-32 Logan**  
**Krebs R #1**  
 Job Ticket: 17050      **DST#: 1**  
 Test Start: 2014.01.20 @ 21:09:00

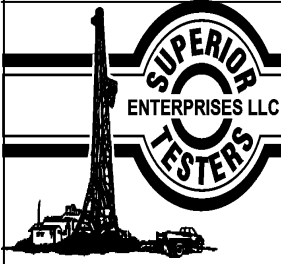
**Tool Information**

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 bbl	Tool Weight:	1000.00 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 54.26 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3934.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3911.00	
Hydraulic Tool	5.00			3916.00	
Jars	6.00			3922.00	
Safety Joint	2.00			3924.00	
Packer	5.00			3929.00	28.00      Bottom Of Top Packer
Packer	5.00			3934.00	
Anchor	0.00			3934.00	
Change Over Sub	0.75			3934.75	
Drill Pipe	31.50			3966.25	
Change Over Sub	0.75			3967.00	
Anchor	30.00			3997.00	
Recorder	1.00	8400	Inside	3998.00	
Recorder	1.00	6731	Outside	3999.00	
Bullnose	3.00			4002.00	68.00      Bottom Packers & Anchor

**Total Tool Length: 96.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**Krebs R #1**

Job Ticket: 17050

**DST#: 1**

ATTN: Kevin Bailey

Test Start: 2014.01.20 @ 21:09:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 7.20 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	w ater 10% mud 90% w ater	3.388
10.00	mud w ater 50% mud 50% w ater	0.140
0.00	Chlorides 25,000 resistivity .2@60degree	0.000

Total Length: 310.00 ft      Total Volume: 3.528 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: chlorides 25,000 resistivity .2@60degrees

