



## 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 @ 14:40:00

End Date: 2014.02.17 @ 20:35:30

Job Ticket #: 18246                      DST #: 2

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

Printed: 2014.02.17 @ 23:20:32



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**26/14S/32W/Logan**

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ATTN:

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Job Ticket: 18246

**DST#: 2**

Test Start: 2014.02.17 @ 14:40:00

## GENERAL INFORMATION:

Formation: **Morrow/Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:47:30

Time Test Ended: 20:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/50

**Interval: 4366.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: 2765.00 ft (KB)

Total Depth: 44420.00 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: 87.99 psig @ 4416.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.17

End Date: 2014.02.17

Last Calib.: 2014.02.17

Start Time: 14:40:00

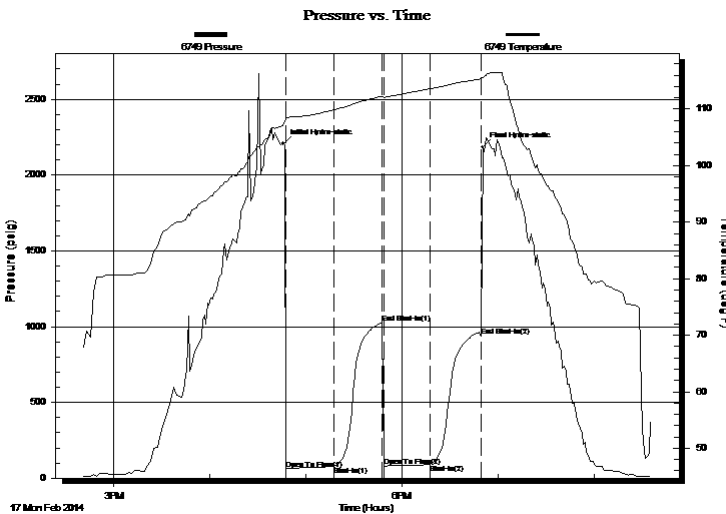
End Time: 20:35:30

Time On Btm: 2014.02.17 @ 16:46:00

Time Off Btm: 2014.02.17 @ 18:50:30

**TEST COMMENT:** 1ST Open 30 Minutes/Fair blow/Blow built to 7 inches  
1ST Shut In 30 Minutes/Blow back built to 1 1/2 inch  
2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 28 minutes  
2ND Shut In 30 Minutes/Blow back built to 1/2 inch

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.09	107.67	Initial Hydro-static
2	61.09	108.21	Open To Flow (1)
32	75.35	109.87	Shut-In(1)
62	1024.95	112.25	End Shut-In(1)
63	75.07	112.08	Open To Flow (2)
92	87.99	113.58	Shut-In(2)
124	940.50	115.33	End Shut-In(2)
125	2186.87	115.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150 feet of gas in pipe	0.00
60.00	Oily Mud/Oil 10%/Mud 90%	0.57
30.00	Clean gassy Oil/Gas 10% Oil 90%	0.42

## Gas Rates

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



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Job Ticket: 18246

**DST#: 2**

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Time Test Ended: 20:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/50

**Interval: 4366.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: 2765.00 ft (KB)

Total Depth: 44420.00 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: 943.10 psig @ 4417.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.17

End Date:

2014.02.17

Last Calib.:

2014.02.17

Start Time: 14:40:00

End Time:

20:34:30

Time On Btm:

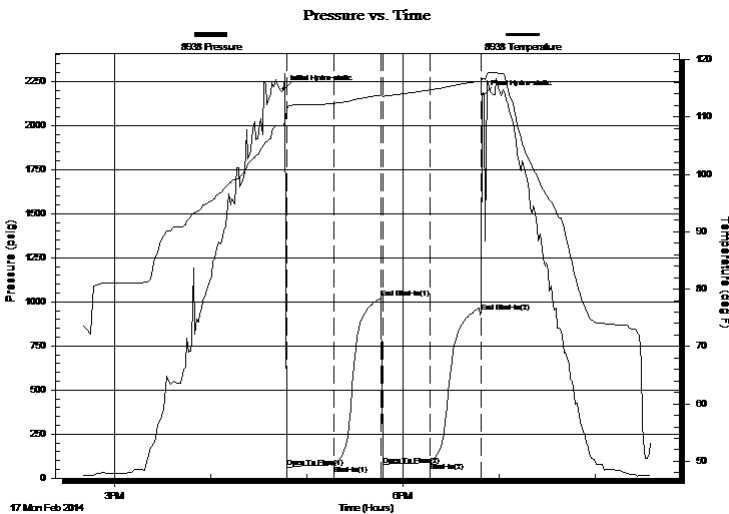
2014.02.17 @ 16:45:30

Time Off Btm:

2014.02.17 @ 18:50:30

**TEST COMMENT:** 1ST Open 30 Minutes/Fair blow/Blow built to 7 inches  
1ST Shut In 30 Minutes/Blow back built to 1 1/2 inch  
2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 28 minutes  
2ND Shut In 30 Minutes/Blow back built to 1/2 inch

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.05	108.57	Initial Hydro-static
2	62.38	111.14	Open To Flow (1)
32	75.24	112.37	Shut-In(1)
62	1022.39	113.82	End Shut-In(1)
62	73.20	113.59	Open To Flow (2)
92	88.13	114.71	Shut-In(2)
124	943.10	116.25	End Shut-In(2)
125	2176.21	116.62	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	150 feet of gas in pipe	0.00
60.00	Oily Mud/Oil 10%/Mud 90%	0.57
30.00	Clean gassy Oil/Gas 10% Oil 90%	0.42

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Tea Oil LLC

26/14S/32W/Logan

1011 Centennial Boulevard  
Suite B  
Hays, Kansas 67601  
ATTN:

Krebs S-1

Job Ticket: 18246

DST#: 2

Test Start: 2014.02.17 @ 14:40:00

## Tool Information

Drill Pipe:	Length: 4334.00 ft	Diameter: 3.80 inches	Volume: 60.79 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: 110000.0 lb
			<u>Total Volume: 60.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4366.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: 2 Shale packers used  
Damaged 1 Shale packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4344.00	
Hydraulic tool	5.00			4349.00	
Jars	5.00			4354.00	
Safety Joint	2.00			4356.00	
Top Packer	5.00			4361.00	
Packer	5.00			4366.00	27.00 Bottom Of Top Packer
Anchor	49.00			4415.00	
Recorder	1.00	6749	Inside	4416.00	
Recorder	1.00	8938	Outside	4417.00	
Bullnose	3.00			4420.00	54.00 Anchor Tool
<b>Total Tool Length:</b>	<b>81.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Tea Oil LLC

**26/14S/32W/Logan**

1011 Centennial Boulevard  
Suite B  
Hays, Kansas 67601  
ATTN:

**Krebs S-1**

Job Ticket: 18246

**DST#: 2**

Test Start: 2014.02.17 @ 14:40:00

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	150 feet of gas in pipe	0.000
60.00	Oily Mud/Oil 10%/Mud 90%	0.568
30.00	Clean gassy Oil/Gas 10% Oil 90%	0.421

Total Length: 90.00 ft      Total Volume: 0.989 bbl

Num Fluid Samples: 0

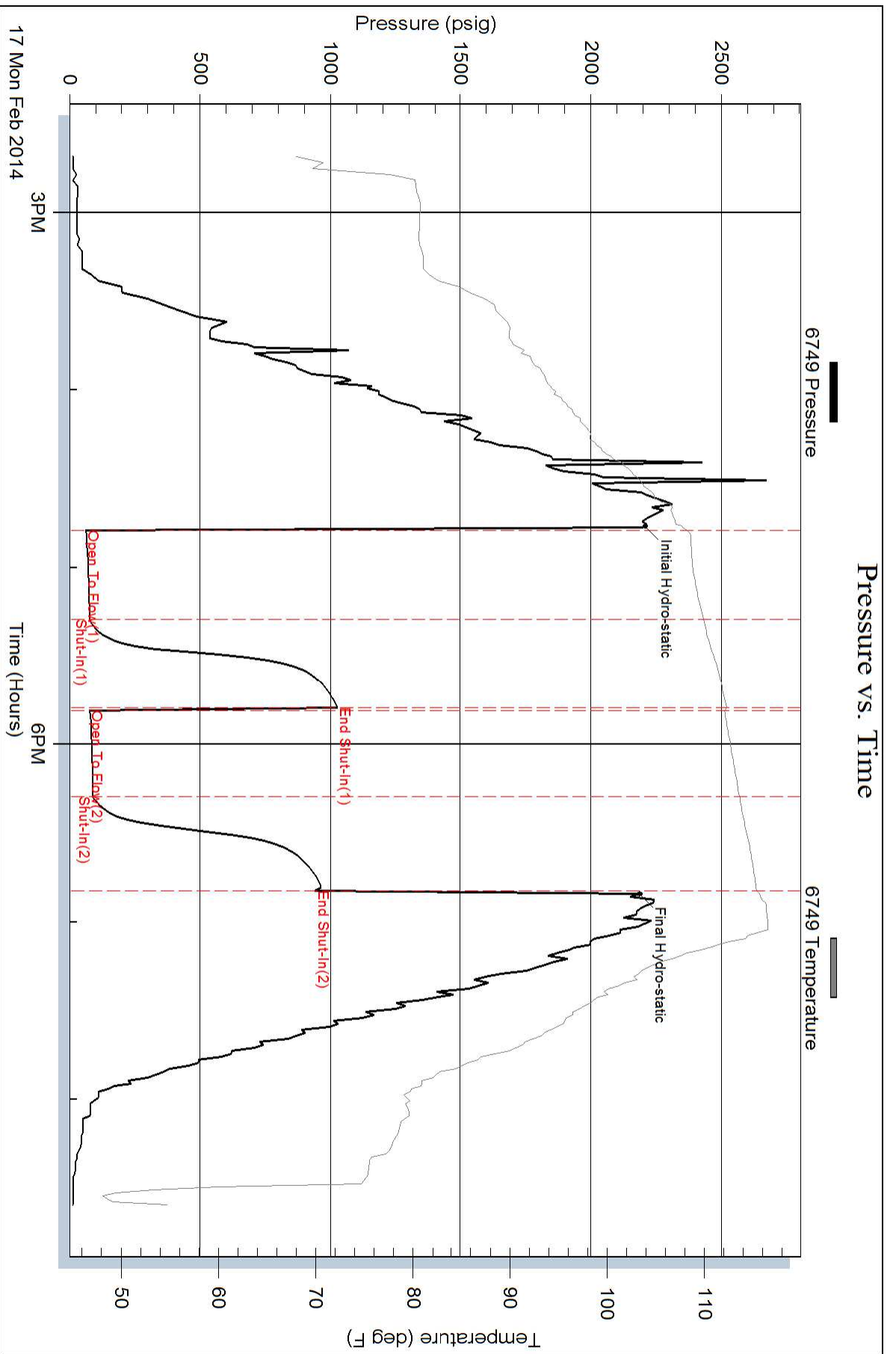
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

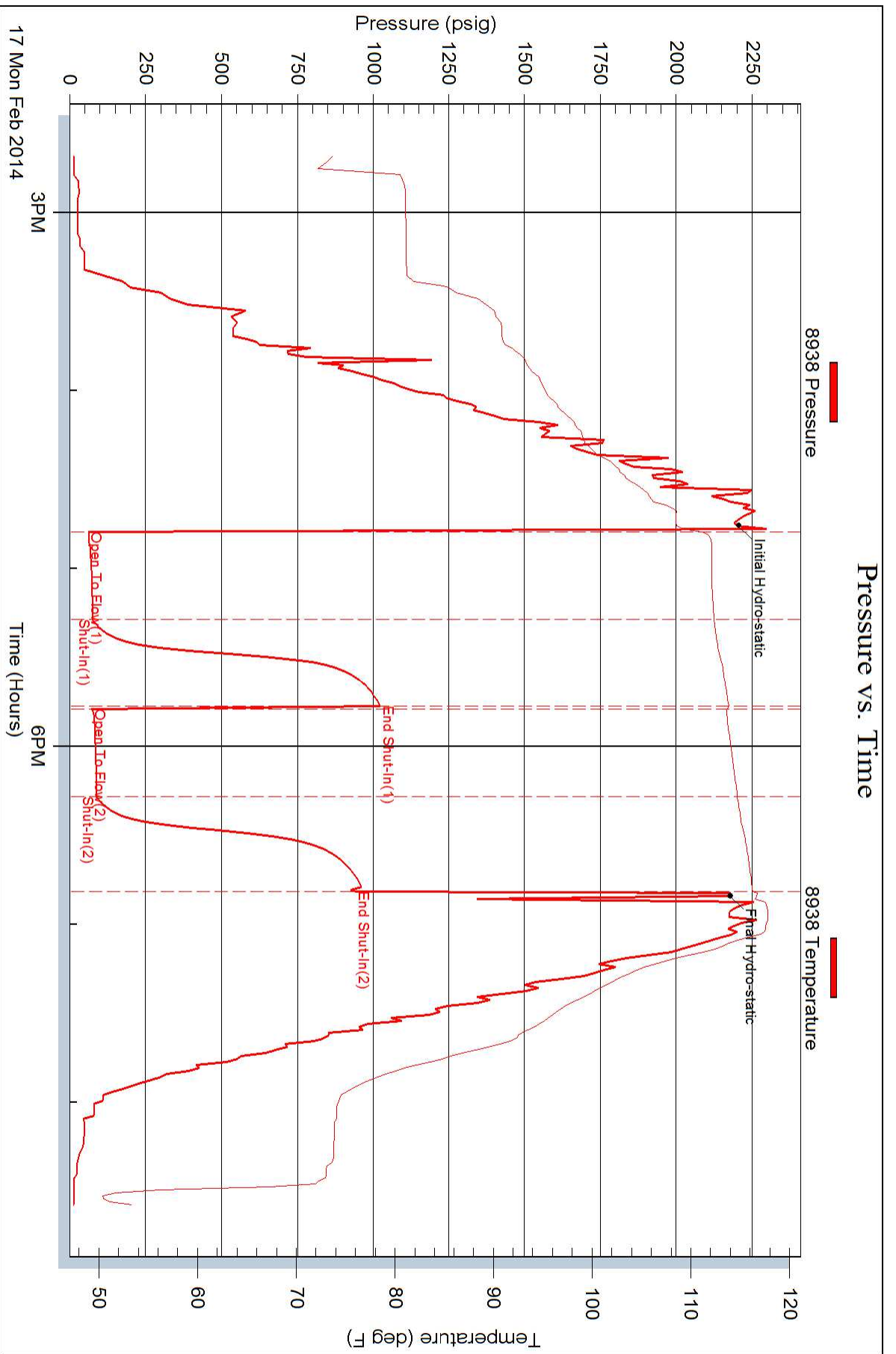


Serial #: 8938

Outside Black Tea Oil LLC

Krebs S-1

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 18246

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