



DRILL STEM TEST REPORT

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

1011 Centennial Blvd B Hays KS 67601

ATTN: Kevin Bailey

Krebs F#1

31-14-31 Gove

Start Date: 2014.03.07 @ 17:05:00

End Date: 2014.03.08 @ 00:53:30

Job Ticket #: 19142 DST #: 1

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

Printed: 2014.03.08 @ 01:39:53

Black Tea Oil L.L.C
31-14-31 Gove
Krebs F#1
DST # 1
KC " K-L"
2014.03.07



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Black Tea Oil L.L.C
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 ATTN: Kevin Bailey

31-14-31 Gove
Krebs F#1
 Job Ticket: 19142 **DST#: 1**
 Test Start: 2014.03.07 @ 17:05:00

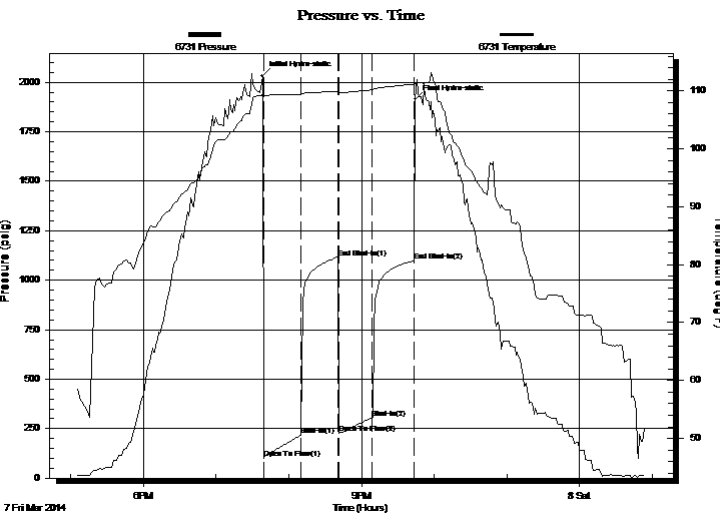
GENERAL INFORMATION:

Formation: **KC " K-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:39:30
 Time Test Ended: 00:53:30
 Interval: **3936.00 ft (KB) To 4033.00 ft (KB) (TVD)**
 Total Depth: 4033.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City-60
 Reference Elevations: 2679.00 ft (KB)
 2670.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 304.60 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.07 End Date: 2014.03.08 Last Calib.: 2014.03.08
 Start Time: 17:05:00 End Time: 00:53:30 Time On Btm: 2014.03.07 @ 19:38:30
 Time Off Btm: 2014.03.07 @ 21:44:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 5 1/2 minutes
 1st Shut-in 30 Minutes-2 1/2 inch blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 5 1/2 minutes
 2nd Shut-in 30 Minutes-3inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.53	109.53	Initial Hydro-static
1	101.21	109.06	Open To Flow (1)
32	218.20	109.37	Shut-In(1)
62	1114.29	109.98	End Shut-In(1)
63	229.11	109.74	Open To Flow (2)
91	304.60	110.20	Shut-In(2)
125	1099.42	111.17	End Shut-In(2)
126	1913.90	111.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	water 15% mud 85% water	1.71
360.00	clean gas oil 10% gas 90% oil	5.05
0.00	300 gas in pipe	0.00
0.00	chlorides 38,000 resistivity .15@50deg	0.00
0.00	gravity oil 46	0.00

Gas Rates

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



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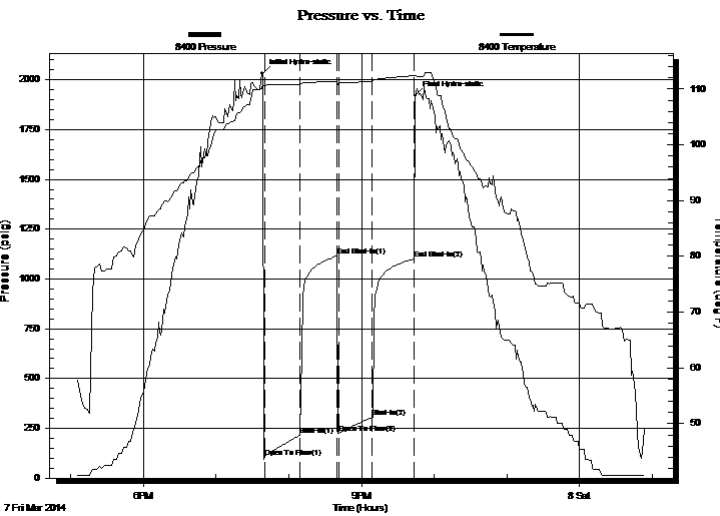
GENERAL INFORMATION:

Formation: **KC " K-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:39:30
 Time Test Ended: 00:53:30
 Interval: **3936.00 ft (KB) To 4033.00 ft (KB) (TVD)**
 Total Depth: 4033.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City-60
 Reference Elevations: 2679.00 ft (KB)
 2670.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 1099.33 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.07 End Date: 2014.03.08 Last Calib.: 2014.03.08
 Start Time: 17:05:00 End Time: 00:53:30 Time On Btm: 2014.03.07 @ 19:38:30
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 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 5 1/2 minutes
 2nd Shut-in 30 Minutes-3inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.10	111.02	Initial Hydro-static
2	104.39	110.64	Open To Flow (1)
31	217.50	110.79	Shut-In(1)
62	1118.30	111.42	End Shut-In(1)
63	224.46	111.11	Open To Flow (2)
91	306.46	111.43	Shut-In(2)
125	1099.33	112.42	End Shut-In(2)
126	1919.00	112.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	water 15% mud 85% water	1.71
360.00	clean gas oil 10% gas 90% oil	5.05
0.00	300 gas in pipe	0.00
0.00	chlorides 38,000 resistivity .15@50deg	0.00
0.00	gravity oil 46	0.00

Gas Rates

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



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TOOL DIAGRAM

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

31-14-31 Gove
Krebs F#1
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 Test Start: 2014.03.07 @ 17:05:00

Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 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: 55000.00 lb
			<u>Total Volume: 54.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3936.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	125.00 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			3913.00	
Hydraulic tool	5.00			3918.00	
Jars	6.00			3924.00	
Safety Joint	2.00			3926.00	
Packer	5.00			3931.00	28.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Change Over Sub	0.50			3936.50	
Drill Pipe	64.00			4000.50	
Change Over Sub	0.50			4001.00	
Recorder	1.00			4002.00	
Recorder	1.00			4003.00	
Anchor	27.00			4030.00	
Bullnose	3.00			4033.00	97.00 Bottom Packers & Anchor

Total Tool Length: 125.00



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FLUID SUMMARY

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DST#: 1

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Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 51.00 sec/qt
 Water Loss: 8.00 in³
 Resistivity: ohm.m
 Salinity: 4000.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psig

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	water 15% mud 85% water	1.705
360.00	clean gas oil 10% gas 90% oil	5.050
0.00	300 gas in pipe	0.000
0.00	chlorides 38,000 resistivity .15 @ 50 degree	0.000
0.00	gravity oil 46	0.000

Total Length: 540.00 ft Total Volume: 6.755 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: chlorides 38,000 resistivity .15 @ 50 degrees / gravity oil 46

Pressure vs. Time

