

DRILL STEM TEST REPORT

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

1011 Centennial Blvd Ste B Hays KS 67601

ATTN: Kevin Bailey

Krebs M #1

27-14-32 Logan

Start Date: 2013.12.18 @ 23:15:00

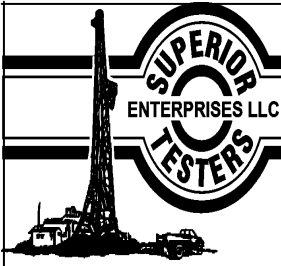
End Date: 2013.12.19 @ 07:05:30

Job Ticket #: 17033 DST #: 2

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

Printed: 2013.12.19 @ 07:48:49

Black Tea Oil L.L.C
27-14-32 Logan
Krebs M #1
DST # 2
KC K&L
2013.12.18



DRILL STEM TEST REPORT

Black Tea Oil L.L.C

27-14-32 Logan

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Krebs M #1

Job Ticket: 17033

DST#: 2

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Test Start: 2013.12.18 @ 23:15:00

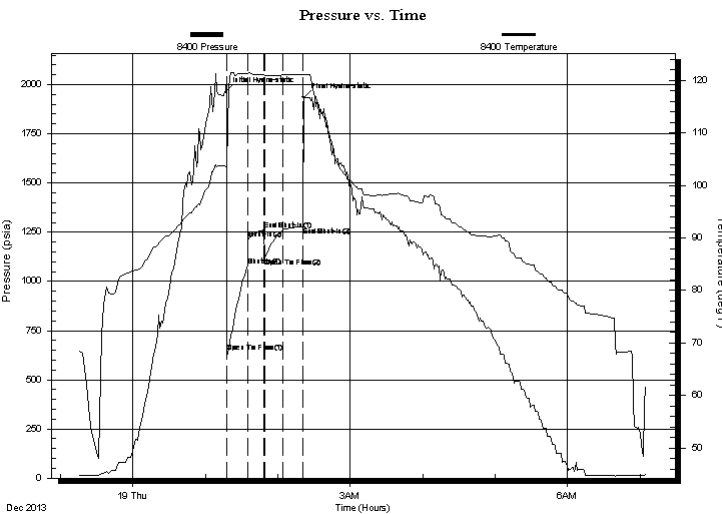
GENERAL INFORMATION:

Formation: **KC K&L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:18:00
 Time Test Ended: 07:05:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City -
 Interval: **3960.00 ft (KB) To 4027.00 ft (KB) (TVD)**
 Reference Elevations: 2708.00 ft (KB)
 Total Depth: 4027.00 ft (KB) (TVD)
 2699.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 1262.37 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.18 End Date: 2013.12.19 Last Calib.: 2013.12.19
 Start Time: 23:15:00 End Time: 07:05:30 Time On Btm: 2013.12.19 @ 01:17:00
 Time Off Btm: 2013.12.19 @ 02:21:30

TEST COMMENT: 1st Opening 15 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 15 Minutes-No blow back
 2nd Opening 15 Minutes-Strong blow built bottom of bucket in 2 minutes
 2nd Shut-in 15 Minutes-No blow back



PRESSURE SUMMARY

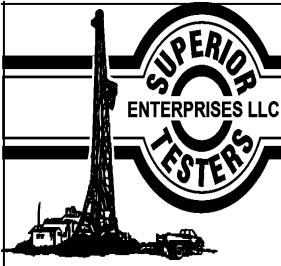
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1964.34	103.61	Initial Hydro-static
1	639.87	103.79	Open To Flow (1)
18	1078.24	121.30	Shut-In(1)
32	1262.68	121.06	End Shut-In(1)
33	1120.24	120.97	Open To Flow (2)
48	1262.37	121.00	Shut-In(2)
64	1277.29	121.08	End Shut-In(2)
65	1936.46	121.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	water	2.55
780.00	gas oil cut w ater 5%gas 50%oil 45%w at	10.94
780.00	gas oil cut w ater 5%gas 45%oil 50%w at	10.94
780.00	gas oil cut w ater 10%gas 45%oil 45%w at	10.94
0.00	chlorides 45,000 resistivity .15@68 Degr	0.00
0.00		0.00

Gas Rates

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



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Krebs M #1

Job Ticket: 17033

DST#: 2

ATTN: Kevin Bailey

Test Start: 2013.12.18 @ 23:15:00

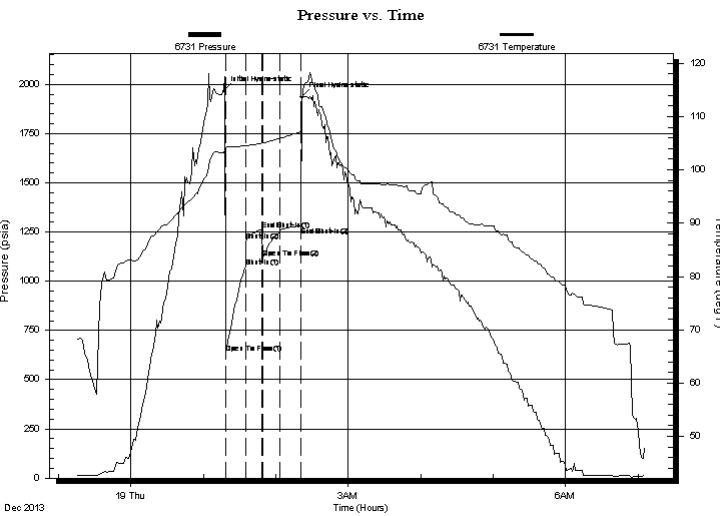
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 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City -
 Interval: **3960.00 ft (KB) To 4027.00 ft (KB) (TVD)**
 Total Depth: 4027.00 ft (KB) (TVD)
 Reference Elevations: 2708.00 ft (KB)
 2699.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 1278.50 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.18 End Date: 2013.12.19 Last Calib.: 2013.12.19
 Start Time: 23:15:00 End Time: 07:05:30 Time On Btm: 2013.12.19 @ 01:17:00
 Time Off Btm: 2013.12.19 @ 02:21:30

TEST COMMENT: 1st Opening 15 Minutes-Strong blow built bottom of bucket in 1 minute
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 2nd Shut-in 15 Minutes-No blow back



PRESSURE SUMMARY

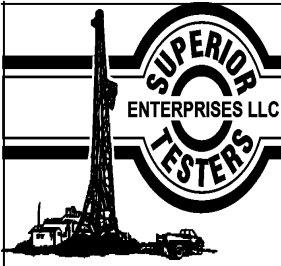
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1965.91	103.25	Initial Hydro-static
2	634.51	104.11	Open To Flow (1)
18	1074.30	104.52	Shut-In(1)
32	1263.09	105.04	End Shut-In(1)
33	1120.44	105.05	Open To Flow (2)
47	1249.94	105.93	Shut-In(2)
64	1278.50	107.14	End Shut-In(2)
65	1935.86	111.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	w ater	2.55
780.00	gas oil cut w ater 5%gas 50%oil 45%w at	10.94
780.00	gas oil cut w ater 5%gas 45%oil 50%w at	10.94
780.00	gas oil cut w ater 10%gas 45%oil 45%w at	10.94
0.00	chlorides 45,000 resistivity .15@68 Degr	0.00
0.00		0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Tea Oil L.L.C

27-14-32 Logan

1011 Centennial Blvd Ste B Hays KS 67601

Krebs M #1

Job Ticket: 17033

DST#: 2

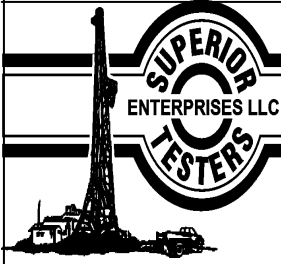
ATTN: Kevin Bailey

Test Start: 2013.12.18 @ 23:15:00

Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 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: 65000.00 lb
			<u>Total Volume: 54.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3960.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	95.00 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			3937.00	
Hydraulic Tool	5.00			3942.00	
Jars	6.00			3948.00	
Safety Joint	2.00			3950.00	
Packer	5.00			3955.00	28.00 Bottom Of Top Packer
Packer	5.00			3960.00	
Anchor	3.00			3963.00	
Change Over Sub	0.75			3963.75	
Drill Pipe	31.50			3995.25	
Change Over Sub	0.75			3996.00	
Anchor	26.00			4022.00	
Recorder	1.00		Inside	4023.00	
Recorder	1.00		Outside	4024.00	
Bullnose	3.00			4027.00	67.00 Bottom Packers & Anchor
Total Tool Length:	95.00				



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FLUID SUMMARY

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Job Ticket: 17033

DST#: 2

ATTN: Kevin Bailey

Test Start: 2013.12.18 @ 23:15:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 56.00 sec/qt
 Water Loss: 10.40 in³
 Resistivity: ohm.m
 Salinity: 6000.00 ppm
 Filter Cake: 1.00 inches

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

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	w ater	2.547
780.00	gas oil cut w ater 5%gas 50%oil 45%w ater	10.941
780.00	gas oil cut w ater 5%gas 45%oil 50%w ater	10.941
780.00	gas oil cut w ater 10%gas 45%oil 45%w ater	10.941
0.00	chlorides 45,000 resistivity .15@68 Degr	0.000
0.00		0.000

Total Length: 2580.00 ft Total Volume: 35.370 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: chlorides 45,000 resistivity .15 @ 68 degrees/Gravity oil 44

