



## DRILL STEM TEST REPORT

Prepared For: **BlackTea Oil**

1011 Centennial Blvd. Ste. Hays Kansas  
67601

ATTN: Anthony Steinke

**Krebs O**

**29-14s-32w Logan**

Start Date: 2014.01.07 @ 11:25:00

End Date: 2014.01.07 @ 18:01:30

Job Ticket #: 19166                      DST #: 2

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

Printed: 2014.01.07 @ 16:12:45



# DRILL STEM TEST REPORT

BlackTea Oil

**29-14s-32w Logan**

1011 Centennial Blvd. Ste. Hays Kansas 67601

**Krebs O**

ATTN: Anothony Steinke

Job Ticket: 19166

**DST#: 2**

Test Start: 2014.01.07 @ 11:25:00

## GENERAL INFORMATION:

Formation: **Lansing L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:30

Time Test Ended: 18:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Scott City-45

**Interval: 3935.00 ft (KB) To 3960.00 ft (KB) (TVD)**

Reference Elevations: 2669.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2662.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

## Serial #: 6806

Press @ RunDepth: 61.68 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.07

End Date: 2014.01.07

Last Calib.: 2014.01.07

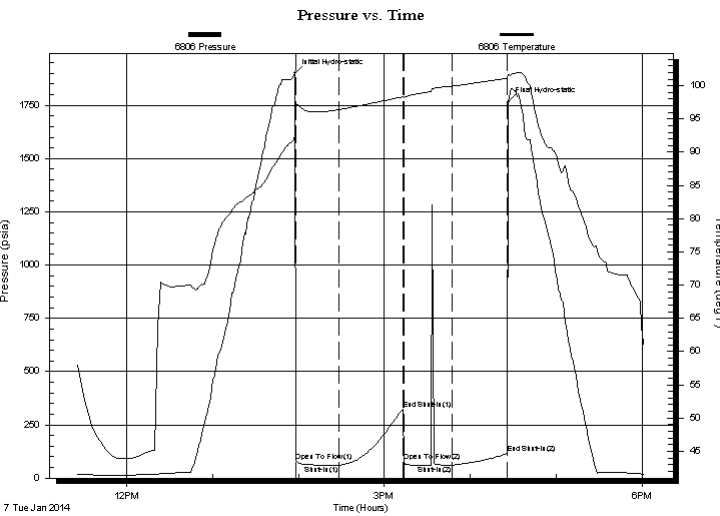
Start Time: 11:25:00

End Time: 18:01:30

Time On Btm: 2014.01.07 @ 13:57:30

Time Off Btm: 2014.01.07 @ 16:26:30

**TEST COMMENT:** 1st Open 30 minutes Fair building blow reached 2.5 inches into a 5 gallon bucket of water.  
 1st Shut in 45 minutes No blow back.  
 2nd Open 30 minutes Weak surface blow died off. Flushed tool w eak surface blow died off.  
 2nd Shut in 45 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1900.46	92.59	Initial Hydro-static
1	81.45	97.05	Open To Flow (1)
31	60.78	96.42	Shut-In(1)
76	324.71	98.33	End Shut-In(1)
76	76.77	98.28	Open To Flow (2)
110	61.68	99.94	Shut-In(2)
148	115.52	101.14	End Shut-In(2)
149	1766.68	101.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
42.00	Oil spotted mud mud 100%	0.31

## Gas Rates

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



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Reference Elevations: 2669.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2662.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

## Serial #: 6839

Press @ RunDepth: psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.07

End Date: 2014.01.07

Last Calib.: 2014.01.07

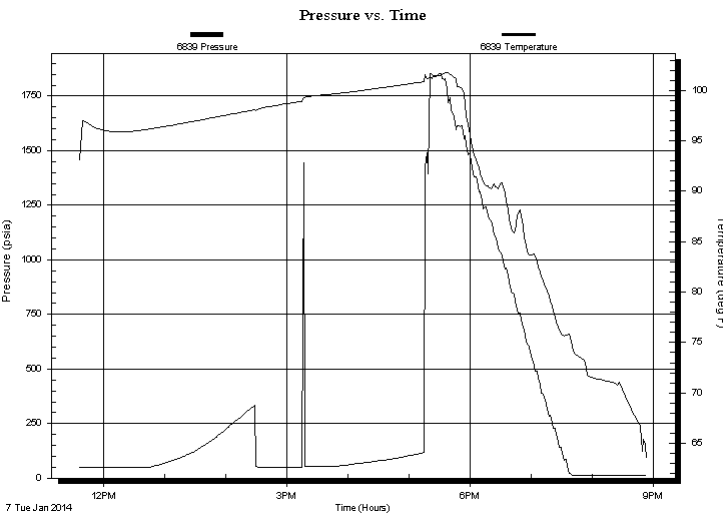
Start Time: 11:35:00

End Time: 20:53:30

Time On Btm:

Time Off Btm:

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## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
42.00	Oil spotted mud mud 100%	0.31

## Gas Rates

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



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BlackTea Oil

**29-14s-32w Logan**

1011 Centennial Blvd. Ste. Hays Kansas 67601

**Krebs O**

Job Ticket: 19166

**DST#: 2**

ATTN: Anothony Steinke

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Tester: Dustin Ellis

Unit No: 3315-Scott City-45

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Reference Elevations: 2669.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2662.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

## Serial #: 8159

Press @ RunDepth: 146.60 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.07

End Date: 2014.01.07

Last Calib.: 2014.01.07

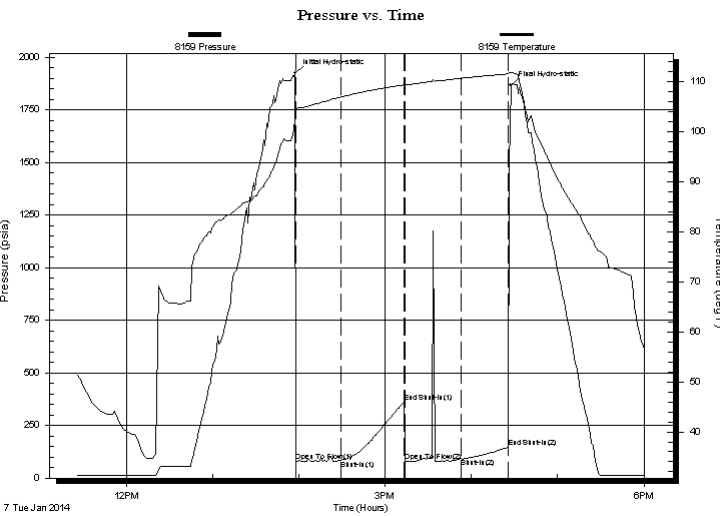
Start Time: 11:25:00

End Time: 18:01:00

Time On Btm: 2014.01.07 @ 13:57:30

Time Off Btm: 2014.01.07 @ 16:27:30

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 1st Shut in 45 minutes No blow back.  
 2nd Open 30 minutes Weak surface blow died off. Flushed tool w eak surface blow died off.  
 2nd Shut in 45 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1923.40	102.48	Initial Hydro-static
1	79.00	104.24	Open To Flow (1)
32	84.68	107.03	Shut-In(1)
76	361.37	109.44	End Shut-In(1)
76	80.20	109.32	Open To Flow (2)
115	92.22	110.74	Shut-In(2)
148	146.60	111.64	End Shut-In(2)
150	1865.02	111.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
42.00	Oil spotted mud mud 100%	0.31

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

BlackTea Oil

**29-14s-32w Logan**

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**Krebs O**

Job Ticket: 19166

**DST#: 2**

ATTN: Anothony Steinke

Test Start: 2014.01.07 @ 11:25:00

## Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 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: 30.70 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.74 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	10.31 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3935.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.67 ft			
Tool Length:	48.28 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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P.O. Sub	0.31			3912.70	
C.O. Sub	0.31			3913.01	
P.O. Sub	0.31			3913.32	
Recorder	1.80		Fluid	3915.12	
Conv. S.I. Tool	1.52			3916.64	
Sampler	1.10			3917.74	
HMV	2.10			3919.84	
Recorder	1.80		Inside	3921.64	
Telemetry Tool	7.01			3928.65	
Jars	2.05			3930.70	
Bypass Hanger	0.32			3931.02	
Safety Joint	0.78			3931.80	
Packer	1.78			3933.58	22.61 Bottom Of Top Packer
Packer	1.42			3935.00	
Stubb	0.36			3935.36	
Recorder Carrier	1.80			3937.16	
Recorder	0.00	6806	Outside	3937.16	
Recorder	0.00	6839	Outside	3937.16	
Perforations	18.00			3955.16	
Bypass Receiver	0.85			3956.01	
Blank Spacing	0.00			3956.01	
Stubb	0.36			3956.37	25.67 Tool Interval
Packer	1.42			3957.79	
Bypass Hanger	0.30			3958.09	
Recorder	1.80	8159	Below	3959.89	
Collar	0.00			3959.89	



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 7.20 ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
42.00	Oil spotted mud mud 100%	0.309

Total Length: 42.00 ft      Total Volume: 0.309 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

