

DRILL STEM TEST REPORT

Prepared For: **Black Tea Oil**

1011 Centennial Blvd.Ste. B
Hays Kansas 67601

ATTN: Kevin Bailey

Krebs C

20-14s-32w-Logan

Start Date: 2013.12.09 @ 10:21:00

End Date: 2013.12.09 @ 18:14:00

Job Ticket #: 19155 DST #: 2

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

Printed: 2013.12.10 @ 04:43:13



DRILL STEM TEST REPORT

Black Tea Oil
 1011 Centennial Blvd.Ste. B
 Hays Kansas 67601
 ATTN: Kevin Bailey

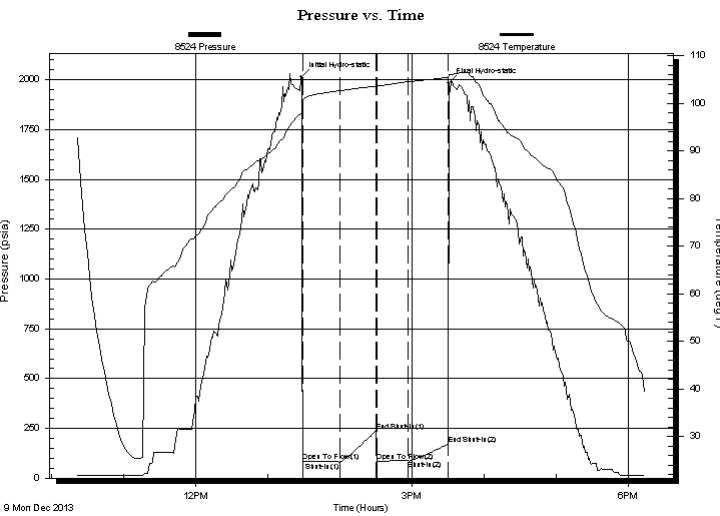
20-14s-32w-Logan
Krebs C
 Job Ticket: 19155 **DST#: 2**
 Test Start: 2013.12.09 @ 10:21:00

GENERAL INFORMATION:

Formation: **KC-Marmeton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:29:30
 Time Test Ended: 18:14:00
 Interval: **4034.00 ft (KB) To 4089.00 ft (KB) (TVD)**
 Total Depth: 4116.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Scott-City-56
 Reference Elevations: 2711.00 ft (KB)
 2702.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8524 Outside
 Press @ RunDepth: 88.79 psia @ 4036.16 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.09 End Date: 2013.12.09 Last Calib.: 2013.12.10
 Start Time: 10:21:00 End Time: 18:14:00 Time On Btm: 2013.12.09 @ 13:28:00
 Time Off Btm: 2013.12.09 @ 15:30:30

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3.5 inches.
 1st Shut in 30 minutes No blow back.
 2nd Open 30 minutes Weak surface blow died off after 4 minutes.
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2014.47	97.71	Initial Hydro-static
2	82.84	100.55	Open To Flow (1)
32	79.95	102.64	Shut-In(1)
62	237.74	103.63	End Shut-In(1)
63	86.35	103.64	Open To Flow (2)
89	88.79	104.52	Shut-In(2)
122	171.71	105.42	End Shut-In(2)
123	1984.81	106.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Very lightly oil spotted mud.Mud 100%	0.34

Gas Rates

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



DRILL STEM TEST REPORT

Black Tea Oil
 1011 Centennial Blvd.Ste. B
 Hays Kansas 67601
 ATTN: Kevin Bailey

20-14s-32w-Logan
Krebs C
 Job Ticket: 19155 **DST#: 2**
 Test Start: 2013.12.09 @ 10:21:00

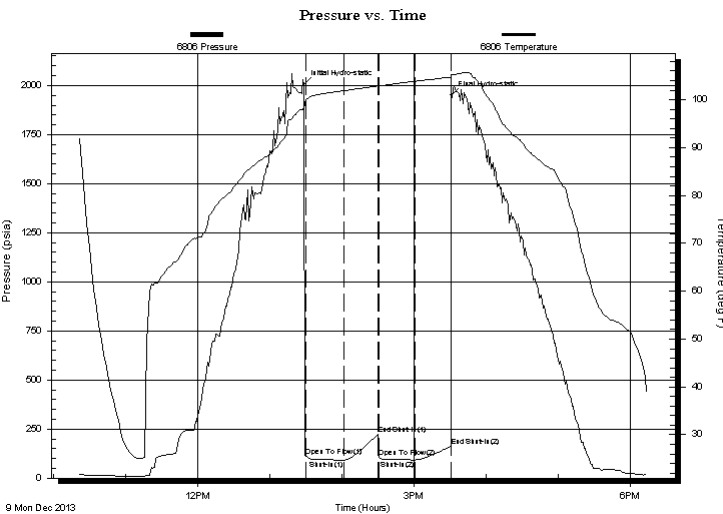
GENERAL INFORMATION:

Formation: **KC-Marmeton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:29:30
 Time Test Ended: 18:14:00
Interval: 4034.00 ft (KB) To 4089.00 ft (KB) (TVD)
 Total Depth: 4116.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Scott-City-56
 Reference Elevations: 2711.00 ft (KB)
 2702.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6806 Outside
 Press @ RunDepth: 161.99 psia @ 4036.16 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.09 End Date: 2013.12.09 Last Calib.: 2013.12.10
 Start Time: 10:21:00 End Time: 18:14:00 Time On Btm: 2013.12.09 @ 13:28:30
 Time Off Btm: 2013.12.09 @ 15:31:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3.5 inches.
 1st Shut in 30 minutes No blow back.
 2nd Open 30 minutes Weak surface blow died off after 4 minutes.
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2006.38	97.79	Initial Hydro-static
2	111.96	99.77	Open To Flow (1)
34	91.52	101.90	Shut-In(1)
62	222.67	102.90	End Shut-In(1)
63	105.78	102.90	Open To Flow (2)
93	93.09	103.87	Shut-In(2)
122	161.99	104.74	End Shut-In(2)
123	1950.40	105.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Very lightly oil spotted mud.Mud 100%	0.34

Gas Rates

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



DRILL STEM TEST REPORT

Black Tea Oil
 1011 Centennial Blvd. Ste. B
 Hays Kansas 67601
 ATTN: Kevin Bailey

20-14s-32w-Logan
Krebs C
 Job Ticket: 19155 **DST#: 2**
 Test Start: 2013.12.09 @ 10:21:00

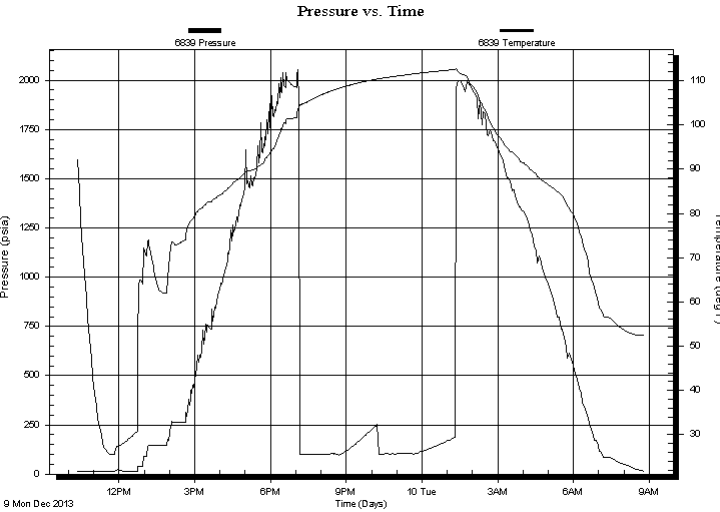
GENERAL INFORMATION:

Formation: KC-Marmeton		Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock:	ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 13:29:30		Unit No: 3315-Scott-City-56
Time Test Ended: 18:14:00		
Interval: 4034.00 ft (KB) To 4089.00 ft (KB) (TVD)		Reference Elevations: 2711.00 ft (KB)
Total Depth: 4116.00 ft (KB) (TVD)		2702.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 9.00 ft

Serial #: 6839 Below

Press @ Run Depth:	psia @	4092.89 ft (KB)	Capacity:	5000.00 psia	
Start Date:	2013.12.09	End Date:	2013.12.10	Last Calib.:	2013.12.10
Start Time:	10:21:00	End Time:	08:48:50	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3.5 inches.
 1st Shut in 30 minutes No blow back.
 2nd Open 30 minutes Weak surface blow died off after 4 minutes.
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Very lightly oil spotted mud. Mud 100%	0.34

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Tea Oil
 1011 Centennial Blvd.Ste. B
 Hays Kansas 67601
 ATTN: Kevin Bailey

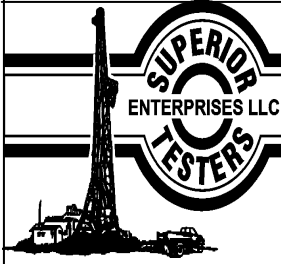
20-14s-32w-Logan
Krebs C
 Job Ticket: 19155 **DST#: 2**
 Test Start: 2013.12.09 @ 10:21:00

Tool Information

Drill Pipe:	Length: 3939.00 ft	Diameter: 3.80 inches	Volume: 55.25 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: 86.57 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose:	38000.00 lb
			<u>Total Volume: 55.68 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.18 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	4034.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	4089.37 ft				
Interval between Packers:	55.37 ft				
Tool Length:	82.28 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
P.O. Sub	0.31			4011.70	
C.O. Sub	0.31			4012.01	
P.O. Sub	0.31			4012.32	
Recorder	1.80		Fluid	4014.12	
Conv. S.I. Tool	1.52			4015.64	
Sampler	1.10			4016.74	
HMV	2.10			4018.84	
Recorder	1.80		Inside	4020.64	
Telemetry Tool	7.01			4027.65	
Jars	2.05			4029.70	
Bypass Hanger	0.32			4030.02	
Safety Joint	0.78			4030.80	
Packer	1.78			4032.58	22.61 Bottom Of Top Packer
Packer	1.42			4034.00	
Stubb	0.36			4034.36	
Recorder Carrier	1.80			4036.16	
Recorder	0.00	6806	Outside	4036.16	
Recorder	0.00	8524	Outside	4036.16	
Perforations	52.00			4088.16	
Bypass Receiver	0.85			4089.01	
Blank Spacing	0.00			4089.01	
Stubb	0.36			4089.37	55.37 Tool Interval
Packer	1.42			4090.79	
Bypass Hanger	0.30			4091.09	
Recorder	1.80	6839	Below	4092.89	
Collar	0.00			4092.89	



DRILL STEM TEST REPORT

FLUID SUMMARY

Black Tea Oil
1011 Centennial Blvd.Ste. B
Hays Kansas 67601
ATTN: Kevin Bailey

20-14s-32w-Logan
Krebs C
Job Ticket: 19155 **DST#: 2**
Test Start: 2013.12.09 @ 10:21:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 10000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Very lightly oil spotted mud.Mud 100%	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

