



DRILL STEM TEST REPORT

Prepared For: **Black Tea Oil LLC**

1011 Centennial Boulevard
Suite B
Hays, Kansas 67601

ATTN: Kevin Bailey

#1 Krebs H

33/14S/32W/Logan

Start Date: 2013.11.18 @ 01:54:00

End Date: 2013.11.18 @ 10:07:30

Job Ticket #: 17066 DST #: 2

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

Printed: 2013.11.18 @ 10:27:29



DRILL STEM TEST REPORT

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33/14S/32W/Logan

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ATTN: Kevin Bailey

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Job Ticket: 17066

DST#: 2

Test Start: 2013.11.18 @ 01:54:00

GENERAL INFORMATION:

Formation: **Base KC-Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:46:30

Time Test Ended: 10:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/46

Interval: 3990.00 ft (KB) To 4121.00 ft (KB) (TVD)

Reference Elevations: 2699.00 ft (KB)

Total Depth: 4121.00 ft (KB) (TVD)

2690.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 6666

Inside

Press @ RunDepth: 229.56 psia @ 4116.88 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.18

End Date: 2013.11.18

Last Calib.: 2013.11.18

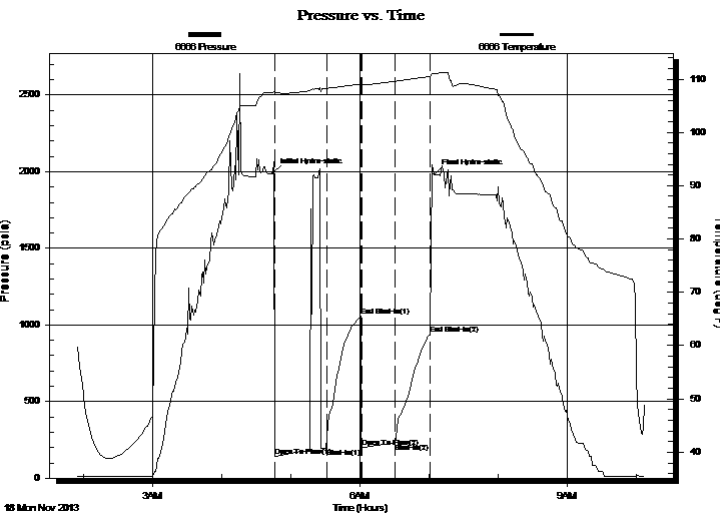
Start Time: 01:54:00

End Time: 10:07:30

Time On Btm: 2013.11.18 @ 04:45:00

Time Off Btm: 2013.11.18 @ 07:05:00

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 19 minutes
1ST Shut In 30 Minutes/Blow back built to 2 1/2 inches
2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 21 minutes
2ND Shut In 30 Minutes/Blow back built to 8 1/2 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1991.00	107.46	Initial Hydro-static
2	141.29	107.47	Open To Flow (1)
46	195.42	108.24	Shut-In(1)
76	1056.71	109.05	End Shut-In(1)
77	198.89	108.91	Open To Flow (2)
106	229.56	109.58	Shut-In(2)
136	942.72	110.47	End Shut-In(2)
140	1984.20	111.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	378 feet of gas in pipe	0.00
252.00	Gassy Oily Mud	2.72
0.00	Gas 10% Oil 10% Mud 80%	0.00
78.00	Clean gassy Oil/Gas 30% Oil 70%	1.09
0.00	Gravity of Oil 31	0.00

Gas Rates

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



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GENERAL INFORMATION:

Formation: **Base KC-Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:46:30

Time Test Ended: 10:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/46

Interval: 3990.00 ft (KB) To 4121.00 ft (KB) (TVD)

Reference Elevations: 2699.00 ft (KB)

Total Depth: 4121.00 ft (KB) (TVD)

2690.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 6749 Outside

Press @ RunDepth: 948.60 psia @ 4117.88 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.18

End Date: 2013.11.18

Last Calib.: 2013.11.18

Start Time: 01:54:00

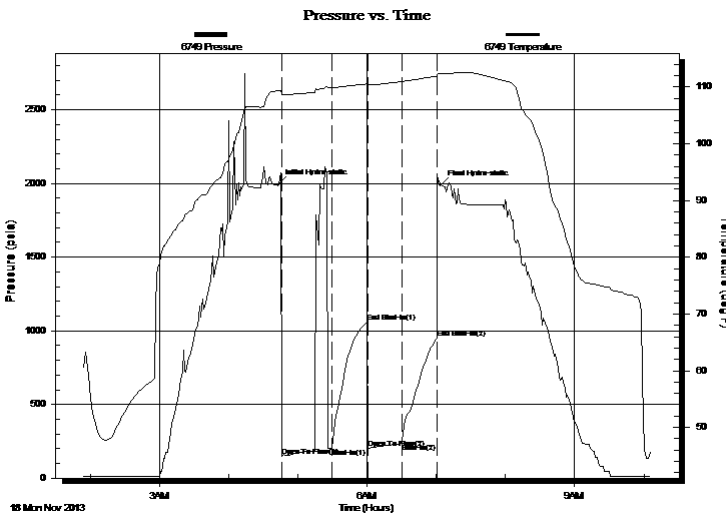
End Time: 10:06:23

Time On Btm: 2013.11.18 @ 04:43:53

Time Off Btm: 2013.11.18 @ 07:03:53

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 19 minutes
1ST Shut In 30 Minutes/Blow back built to 2 1/2 inches
2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 21 minutes
2ND Shut In 30 Minutes/Blow back built to 8 1/2 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1995.33	109.32	Initial Hydro-static
2	149.72	108.79	Open To Flow (1)
47	203.62	109.87	Shut-In(1)
76	1057.77	110.57	End Shut-In(1)
77	203.75	110.39	Open To Flow (2)
106	234.48	110.94	Shut-In(2)
137	948.60	111.87	End Shut-In(2)
140	1990.68	112.36	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	378 feet of gas in pipe	0.00
252.00	Gassy Oily Mud	2.72
0.00	Gas 10% Oil 10% Mud 80%	0.00
78.00	Clean gassy Oil/Gas 30% Oil 70%	1.09
0.00	Gravity of Oil 31	0.00

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



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TOOL DIAGRAM

Black Tea Oil LLC

33/14S/32W/Logan

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Suite B
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#1 Krebs H

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DST#: 2

Test Start: 2013.11.18 @ 01:54:00

Tool Information

Drill Pipe:	Length: 3877.00 ft	Diameter: 3.80 inches	Volume: 54.38 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 54.82 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3990.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	130.88 ft			
Tool Length:	157.88 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale packer used

Shale packer replaced due to damage

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3968.00	
Hydraulic Tool	5.00			3973.00	
Jars	5.00			3978.00	
Safety Joint	2.00			3980.00	
Packer	5.00			3985.00	27.00 Bottom Of Top Packer
Packer	5.00			3990.00	
Perforations	5.00			3995.00	
Change Over Sub	0.75			3995.75	
Drill Pipe	92.38			4088.13	
Change Over Sub	0.75			4088.88	
Anchor	27.00			4115.88	
Recorder	1.00	6666	Inside	4116.88	
Recorder	1.00	6749	Outside	4117.88	
Bullnose	3.00			4120.88	130.88 Bottom Packers & Anchor

Total Tool Length: 157.88



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 2500.00 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
0.00	378 feet of gas in pipe	0.000
252.00	Gassy Oily Mud	2.715
0.00	Gas 10% Oil 10% Mud 80%	0.000
78.00	Clean gassy Oil/Gas 30% Oil 70%	1.094
0.00	Gravity of Oil 31	0.000

Total Length: 330.00 ft Total Volume: 3.809 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

