



DRILL STEM TEST REPORT

Prepared For: **Black Tea Oil**

1011 Centennial Blvd Ste B Hays KS 67601

ATTN: Chris Lieker

Krebs N #1

27-14-32 Logan

Start Date: 2013.12.30 @ 21:00:00

End Date: 2013.12.31 @ 05:42:30

Job Ticket #: 17039 DST #: 2

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

Printed: 2013.12.31 @ 06:01:15



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 Test Start: 2013.12.30 @ 21:00:00

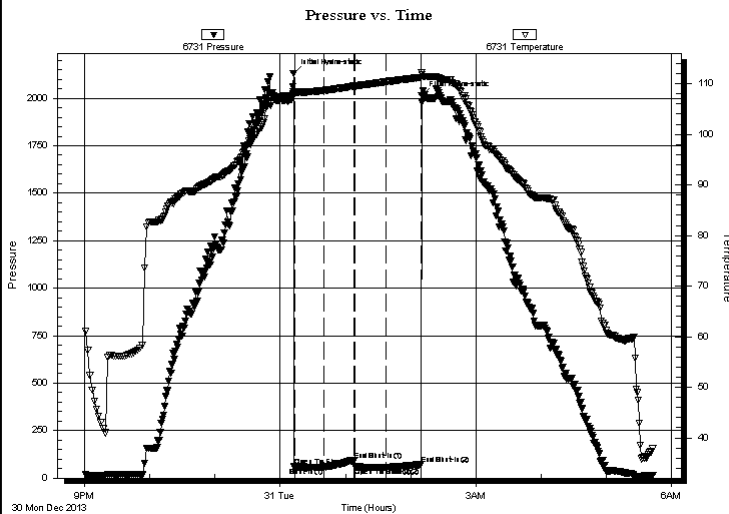
GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:13:00
 Time Test Ended: 05:42:30
 Interval: **4067.00 ft (KB) To 4109.00 ft (KB) (TVD)**
 Total Depth: 4109.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City-
 Reference Elevations: 3653.00 ft (KB)
 3644.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 58.07 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.30 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 21:00:00 End Time: 05:42:30 Time On Btm: 2013.12.31 @ 00:12:00
 Time Off Btm: 2013.12.31 @ 02:10:00

TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow built 1 inch into w ater in 30 minutes
 1st Shut-in 30 Minutes-No Blow back
 2nd Opening 30 Minutes-Weak surface blow built 1/4 inch into w ater
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2131.00	108.37	Initial Hydro-static
1	61.02	108.32	Open To Flow (1)
29	58.55	108.70	Shut-In(1)
56	91.83	109.52	End Shut-In(1)
57	59.28	109.54	Open To Flow (2)
85	58.07	110.40	Shut-In(2)
117	71.56	111.27	End Shut-In(2)
118	2013.50	112.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	muddy water with spot oil	0.14
0.00	49%mud 50%w ater 1%oil	0.00
0.00	chlorides 20,000 resistivity .3@50degree	0.00

Gas Rates

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



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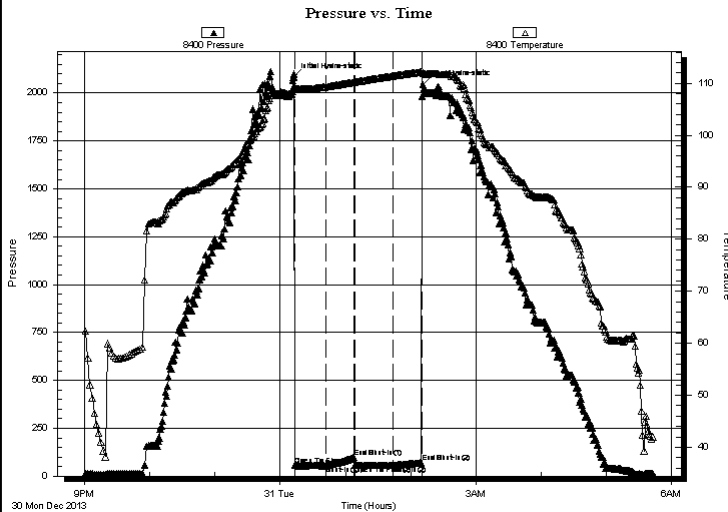
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 Test Type: Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City-
 Reference Elevations: 3653.00 ft (KB)
 3644.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 70.48 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.30 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 21:00:00 End Time: 05:42:30 Time On Btm: 2013.12.31 @ 00:12:00
 Time Off Btm: 2013.12.31 @ 02:11:00

TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow built 1 inch into w ater in 30 minutes
 1st Shut-in 30 Minutes-No Blow back
 2nd Opening 30 Minutes-Weak surface blow built 1/4 inch into w ater
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

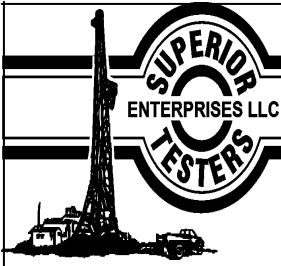
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2083.59	108.82	Initial Hydro-static
2	55.27	109.00	Open To Flow (1)
30	56.95	109.32	Shut-In(1)
56	97.63	110.22	End Shut-In(1)
57	56.15	110.24	Open To Flow (2)
92	56.53	111.43	Shut-In(2)
118	70.48	112.19	End Shut-In(2)
119	2045.79	112.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	muddy water with spot oil	0.14
0.00	49%mud 50%w ater 1%oil	0.00
0.00	chlorides 20,000 resistivity .3@50degree	0.00

Gas Rates

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



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TOOL DIAGRAM

Black Tea Oil
 1011 Centennial Blvd Ste B Hays KS 67601
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27-14-32 Logan
Krebs N #1
 Job Ticket: 17039 **DST#:2**
 Test Start: 2013.12.30 @ 21:00:00

Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4067.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			4044.00	
Hydraulic Tool	5.00			4049.00	
Jars	6.00			4055.00	
Safety Joint	2.00			4057.00	
Packer	5.00			4062.00	28.00 Bottom Of Top Packer
Packer	5.00			4067.00	
Anchor	37.00			4104.00	
Recorder	1.00		Inside	4105.00	
Recorder	1.00		Outside	4106.00	
Bullnose	3.00			4109.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



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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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	muddy w ater w ith spot oil	0.140
0.00	49%mud 50%w ater 1%oil	0.000
0.00	chlorides 20,000 resistivity .3@50degree	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

