

DRILL STEM TEST REPORT

Prepared For: **Black Tea Oil, LLC**

1011 Centennial BLVD. Ste B
Hays Ks, 67601

ATTN: Kevin Bailey

Krebs #I-1

33/14s/32w/Logan

Start Date: 2013.11.27 @ 16:30:00

End Date: 2013.11.28 @ 00:37:30

Job Ticket #: 18604 DST #: 2

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

Printed: 2013.11.28 @ 00:46:19



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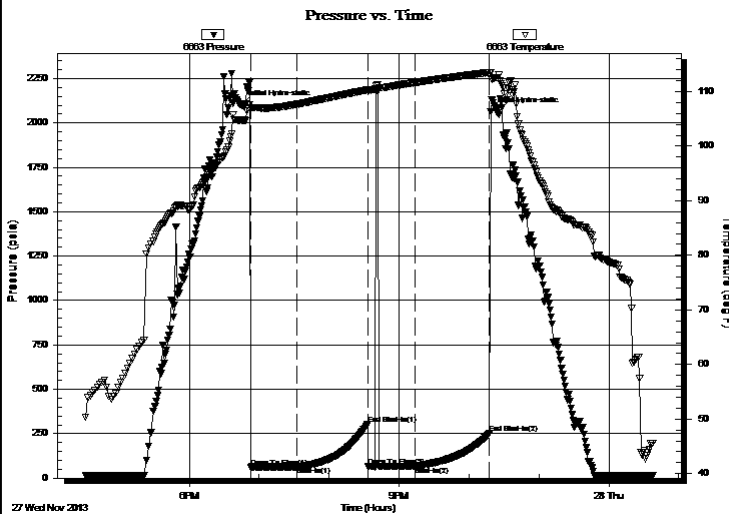
33/14s/32w/Logan
Krebs #I-1
 Job Ticket: 18604 **DST#: 2**
 Test Start: 2013.11.27 @ 16:30:00

GENERAL INFORMATION:

Formation: **L. Johnson Marrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:52:30
 Time Test Ended: 00:37:30
 Interval: **4325.00 ft (KB) To 4388.00 ft (KB) (TVD)**
 Total Depth: 4388.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/50/Scott City
 Reference Elevations: 2741.00 ft (KB)
 2732.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6663 Inside
 Press @ RunDepth: 67.20 psia @ 4382.16 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.27 End Date: 2013.11.28 Last Calib.: 2013.11.28
 Start Time: 16:31:00 End Time: 00:37:30 Time On Btm: 2013.11.27 @ 18:44:30
 Time Off Btm: 2013.11.27 @ 22:18:30

TEST COMMENT: 1st Open/ 40 Minutes. Weak surface blow.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 40 Minutes. No blow, flushed tool and had flush bubbles, gained no blow.
 2nd Shut In/ 60 Minutes. No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2101.15	104.77	Initial Hydro-static
8	62.55	107.10	Open To Flow (1)
48	64.02	107.65	Shut-In(1)
109	305.19	110.32	End Shut-In(1)
109	64.45	110.25	Open To Flow (2)
149	67.20	111.64	Shut-In(2)
214	250.91	113.51	End Shut-In(2)
214	2063.37	113.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud	0.10

Gas Rates

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



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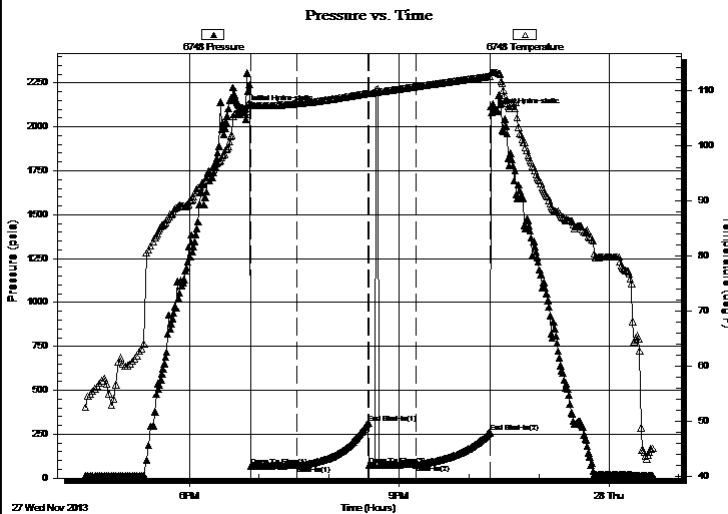
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 Unit No: 3330/50/Scott City
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 2732.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6748 Outside
 Press @ Run Depth: 262.37 psia @ 4383.16 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.27 End Date: 2013.11.28 Last Calib.: 2013.11.28
 Start Time: 16:31:00 End Time: 00:38:00 Time On Btm: 2013.11.27 @ 18:47:30
 Time Off Btm: 2013.11.27 @ 22:19:30

TEST COMMENT: 1st Open/ 40 Minutes. Weak surface blow.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 40 Minutes. No blow, flushed tool and had flush bubbles, gained no blow.
 2nd Shut In/ 60 Minutes. No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2101.22	105.63	Initial Hydro-static
5	69.84	107.24	Open To Flow (1)
45	72.09	107.52	Shut-In(1)
106	314.72	109.44	End Shut-In(1)
107	73.06	109.38	Open To Flow (2)
147	76.71	110.63	Shut-In(2)
211	262.37	112.50	End Shut-In(2)
212	2081.31	113.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud	0.10

Gas Rates

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



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TOOL DIAGRAM

Black Tea Oil, LLC
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33/14s/32w/Logan
Krebs #I-1
 Job Ticket: 18604 **DST#: 2**
 Test Start: 2013.11.27 @ 16:30:00

Tool Information

Drill Pipe:	Length: 4221.00 ft	Diameter: 3.80 inches	Volume: 59.21 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: 25000.00 lb
Drill Collar:	Length: 86.60 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 59.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.60 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4325.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.16 ft			
Tool Length:	92.16 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer Used.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4297.00	
Shut-In Tool	5.00			4302.00	
Hydroic Tool	5.00			4307.00	
Jars	6.00			4313.00	
Safety Joint	2.00			4315.00	
Packer	5.00			4320.00	29.00 Bottom Of Top Packer
Packer	5.00			4325.00	
Perforations	23.00			4348.00	
Change Over Sub	0.75			4348.75	
Drill Pipe	31.66			4380.41	
Change Over Sub	0.75			4381.16	
Perforations	0.00			4381.16	
Recorder	1.00	6663	Inside	4382.16	
Recorder	1.00	6748	Outside	4383.16	
Bullnose	5.00			4388.16	63.16 Bottom Packers & Anchor

Total Tool Length: 92.16



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FLUID SUMMARY

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Test Start: 2013.11.27 @ 16:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 38.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 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
20.00	100% mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

