



DRILL STEM TEST REPORT

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

1011 Centennial Blvd. Ste.B
Hays Kansas 67601

ATTN: Kevin Bailey

Krebs G #1

28-14s-32w-Logan

Start Date: 2013.11.04 @ 07:27:00

End Date: 2013.11.04 @ 14:28:00

Job Ticket #: 18533 DST #: 1

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

Printed: 2013.11.04 @ 12:59:05



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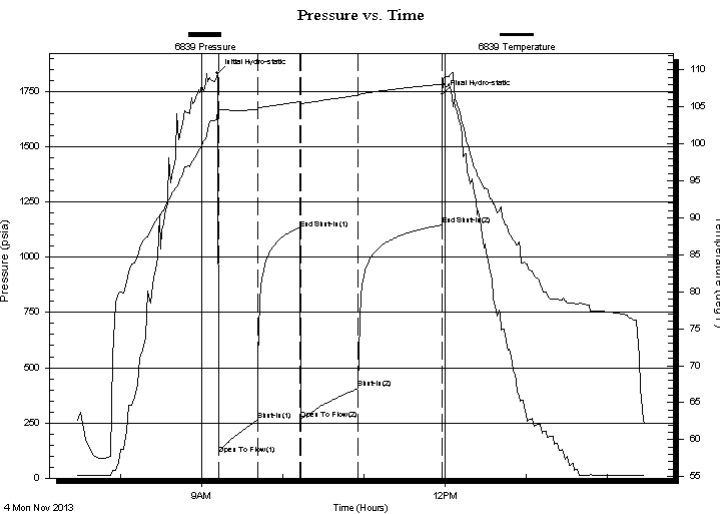
28-14s-32w-Logan
Krebs G #1
 Job Ticket: 18533 **DST#: 1**
 Test Start: 2013.11.04 @ 07:27:00

GENERAL INFORMATION:

Formation: **Lansing D-E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:12:30
 Time Test Ended: 14:28:00
 Interval: **3650.00 ft (KB) To 3752.00 ft (KB) (TVD)**
 Total Depth: 3752.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Scott City-44
 Reference Elevations: 2664.00 ft (KB)
 2655.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6839 Outside
 Press @ RunDepth: 405.73 psia @ 3749.77 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.04 End Date: 2013.11.04 Last Calib.: 2013.11.04
 Start Time: 07:27:00 End Time: 14:28:00 Time On Btm: 2013.11.04 @ 09:11:30
 Time Off Btm: 2013.11.04 @ 11:58:00

TEST COMMENT: 1st Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 7 minutes.
 1st Shut in 30 minutes Yes 1 inch blow back.
 2nd Open 45 minutes Strong building blow blew bottom bucket 7 minutes.
 2nd Shut in 60 minutes Yes 1/2 inch.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1831.51	104.70	Initial Hydro-static
1	106.89	104.61	Open To Flow (1)
30	261.64	104.68	Shut-In(1)
61	1129.41	105.71	End Shut-In(1)
62	267.97	105.50	Open To Flow (2)
104	405.73	106.57	Shut-In(2)
166	1145.49	108.09	End Shut-In(2)
167	1737.69	108.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
244.00	Clean gassy oil	2.63
0.00	Oil 90% Gas 10%	0.00
549.00	Gassy oil cut mud	7.70
0.00	Oil 50% Mud 40% Gas 10%	0.00
61.00	Watery mud cut gassy oil	0.86
0.00	Oil 5% Mud 5% Water 90%	0.00

Gas Rates

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



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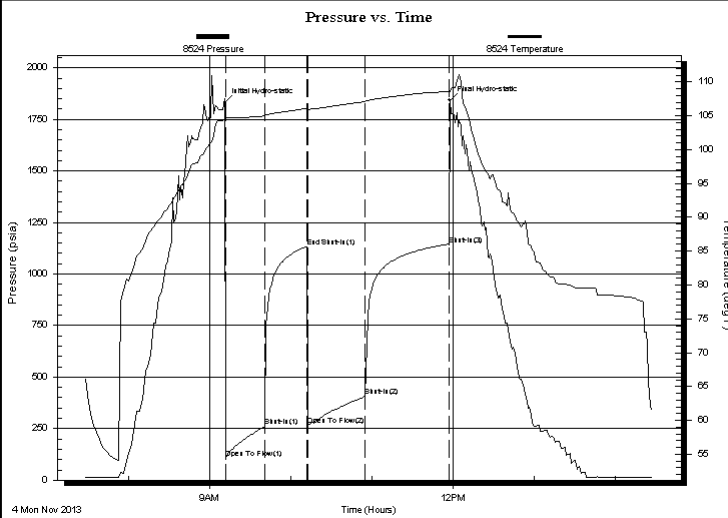
28-14s-32w-Logan
Krebs G #1
 Job Ticket: 18533 **DST#: 1**
 Test Start: 2013.11.04 @ 07:27:00

GENERAL INFORMATION:

Formation: **Lansing D-E-F**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:12:30 Tester: Dustin Ellis
 Time Test Ended: 14:28:00 Unit No: 3315-Scott City-44
Interval: 3650.00 ft (KB) To 3752.00 ft (KB) (TVD) Reference Elevations: 2664.00 ft (KB)
 Total Depth: 3752.00 ft (KB) (TVD) 2655.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8524 Inside
 Press @ Run Depth: 1132.54 psia @ 3748.77 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.04 End Date: 2013.11.04 Last Calib.: 2013.11.04
 Start Time: 07:27:00 End Time: 14:28:00 Time On Btm: 2013.11.04 @ 09:11:00
 Time Off Btm: 2013.11.04 @ 11:57:30

TEST COMMENT: 1st Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 7 minutes.
 1st Shut in 30 minutes Yes 1 inch blow back.
 2nd Open 45 minutes Strong building blow blew bottom bucket 7 minutes.
 2nd Shut in 60 minutes Yes 1/2 inch.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1830.99	104.94	Initial Hydro-static
1	106.82	104.72	Open To Flow (1)
30	261.39	104.97	Shut-In(1)
61	1132.54	106.10	End Shut-In(1)
62	267.28	105.95	Open To Flow (2)
104	405.86	107.12	Shut-In(2)
166	1140.78	108.61	Shut-In(3)
167	1841.93	108.51	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
244.00	Clean gassy oil	2.63
0.00	Oil 90% Gas 10%	0.00
549.00	Gassy oil cut mud	7.70
0.00	Oil 50% Mud 40% Gas 10%	0.00
61.00	Watery mud cut gassy oil	0.86
0.00	Oil 5% Mud 5% Water 90%	0.00

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



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TOOL DIAGRAM

Black Tea Oil LLC.
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28-14s-32w-Logan
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Tool Information

Drill Pipe:	Length: 3574.00 ft	Diameter: 3.80 inches	Volume: 50.13 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: 86.82 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 50.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.82 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3650.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	102.77 ft				
Tool Length:	117.77 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			3640.00	
Hydraulic Tool	5.00			3645.00	
Packer	5.00			3650.00	15.00 Bottom Of Top Packer
Shell Packer	5.00			3655.00	
Anchor	5.00			3660.00	
Change Over Sub	0.75			3660.75	
Drill Pipe	63.27			3724.02	
Change Over Sub	0.75			3724.77	
Anchor	23.00			3747.77	
Recorder	1.00	8524	Inside	3748.77	
Recorder	1.00	6839	Outside	3749.77	
Bull Plug	3.00			3752.77	102.77 Anchor Tool

Total Tool Length: 117.77



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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: 39.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

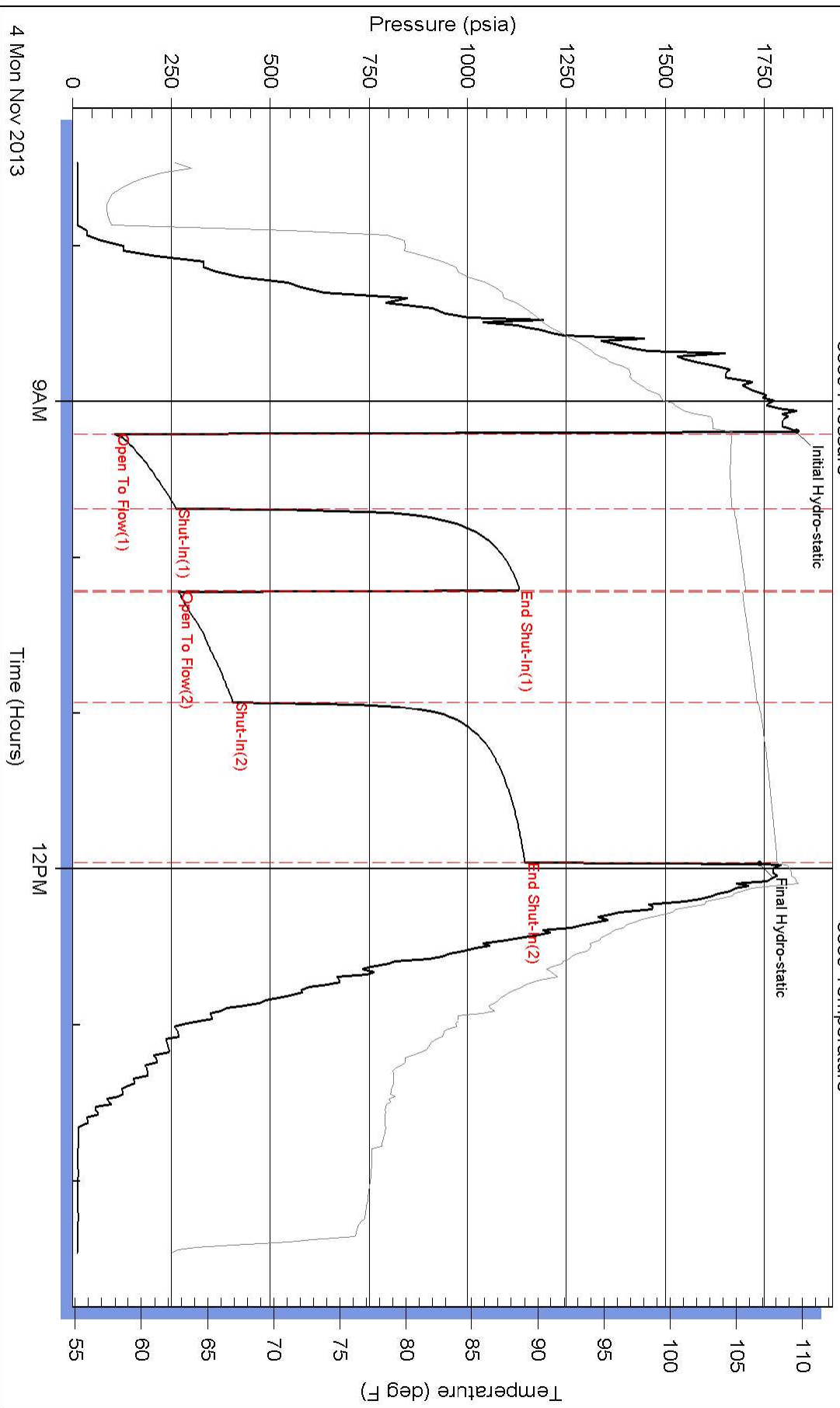
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
244.00	Clean gassy oil	2.632
0.00	Oil 90% Gas 10%	0.000
549.00	Gassy oil cut mud	7.701
0.00	Oil 50% Mud 40% Gas 10%	0.000
61.00	Watery mud cut gassy oil	0.856
0.00	Oil 5% Mud 5% Water 90%	0.000
0.00	244 Gas in pipe	0.000
0.00	Chlorides 41,000 .3 ohms	0.000

Total Length: 854.00 ft Total Volume: 11.189 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time

