



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: 2013.12.08 @ 04:32:00

End Date: 2013.12.08 @ 11:00:00

Job Ticket #: 19154 DST #: 1

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

Printed: 2013.12.08 @ 21:13:38



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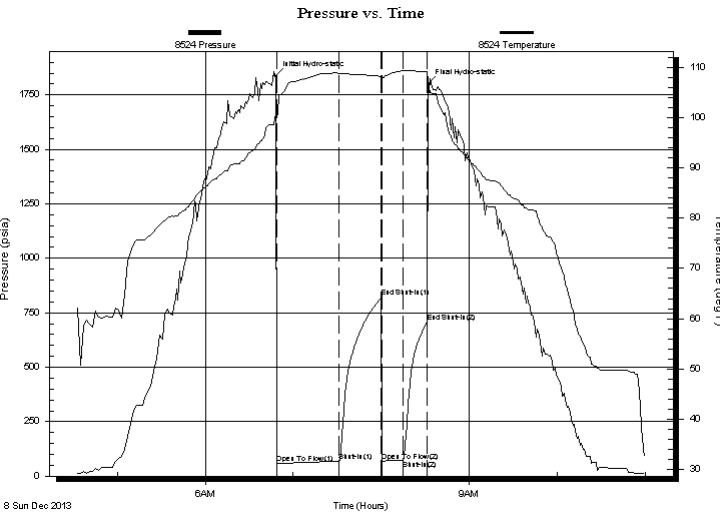
20-14s-32w-Logan
Krebs C
 Job Ticket: 19154 **DST#: 1**
 Test Start: 2013.12.08 @ 04:32:00

GENERAL INFORMATION:

Formation: **Lansing D-E**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:48:30
 Time Test Ended: 11:00:00
 Interval: **3760.00 ft (KB) To 3801.00 ft (KB) (TVD)**
 Total Depth: 3801.00 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-56
 Reference Elevations: 2711.00 ft (KB)
 2702.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8524 Outside
 Press @ RunDepth: 72.57 psia @ 3798.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.08 End Date: 2013.12.08 Last Calib.: 2013.12.08
 Start Time: 04:32:00 End Time: 11:00:00 Time On Btm: 2013.12.08 @ 06:48:00
 Time Off Btm: 2013.12.08 @ 08:32:00

TEST COMMENT: 1st Open 30 minutes Good blow built to 2.5 inches into a 5 gallon bucket of water.
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak surface blow through out.
 2nd Shut in 15 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1836.36	100.59	Initial Hydro-static
1	57.37	100.08	Open To Flow (1)
43	67.76	108.82	Shut-In(1)
72	821.93	108.27	End Shut-In(1)
73	69.92	107.96	Open To Flow (2)
87	72.57	109.43	Shut-In(2)
103	705.65	109.20	End Shut-In(2)
104	1802.38	107.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	Oil spotted mud Oil 1% Mud 99%	0.31

Gas Rates

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



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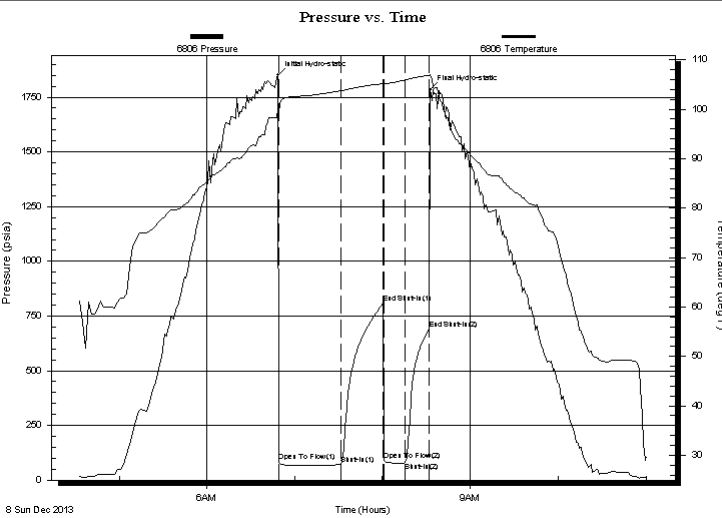
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 2702.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6806 Inside
 Press @ RunDepth: 690.39 psia @ 3797.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.08 End Date: 2013.12.08 Last Calib.: 2013.12.08
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 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak surface blow through out.
 2nd Shut in 15 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1850.03	99.94	Initial Hydro-static
1	85.20	99.42	Open To Flow (1)
43	70.50	103.72	Shut-In(1)
72	809.30	105.18	End Shut-In(1)
73	88.33	105.02	Open To Flow (2)
87	80.00	105.91	Shut-In(2)
103	690.39	106.88	End Shut-In(2)
104	1783.89	107.06	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
64.00	Oil spotted mud Oil 1% Mud 99%	0.31

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3658.00 ft	Diameter: 3.80 inches	Volume: 51.31 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:	42000.00 lb
			<u>Total Volume: 51.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.57 ft			String Weight: Initial	29000.00 lb
Depth to Top Packer:	3760.00 ft			Final	29000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	64.00 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			3742.00	
Hydraulic Tool	5.00			3747.00	
Jars	6.00			3753.00	
Safety Joint	2.00			3755.00	
Packer	5.00			3760.00	23.00 Bottom Of Top Packer
Shell Packer	5.00			3765.00	
Anchor	31.00			3796.00	
Recorder	1.00	6806	Inside	3797.00	
Recorder	1.00	8524	Outside	3798.00	
Bull Plug	3.00			3801.00	41.00 Anchor Tool
Total Tool Length:	64.00				



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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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

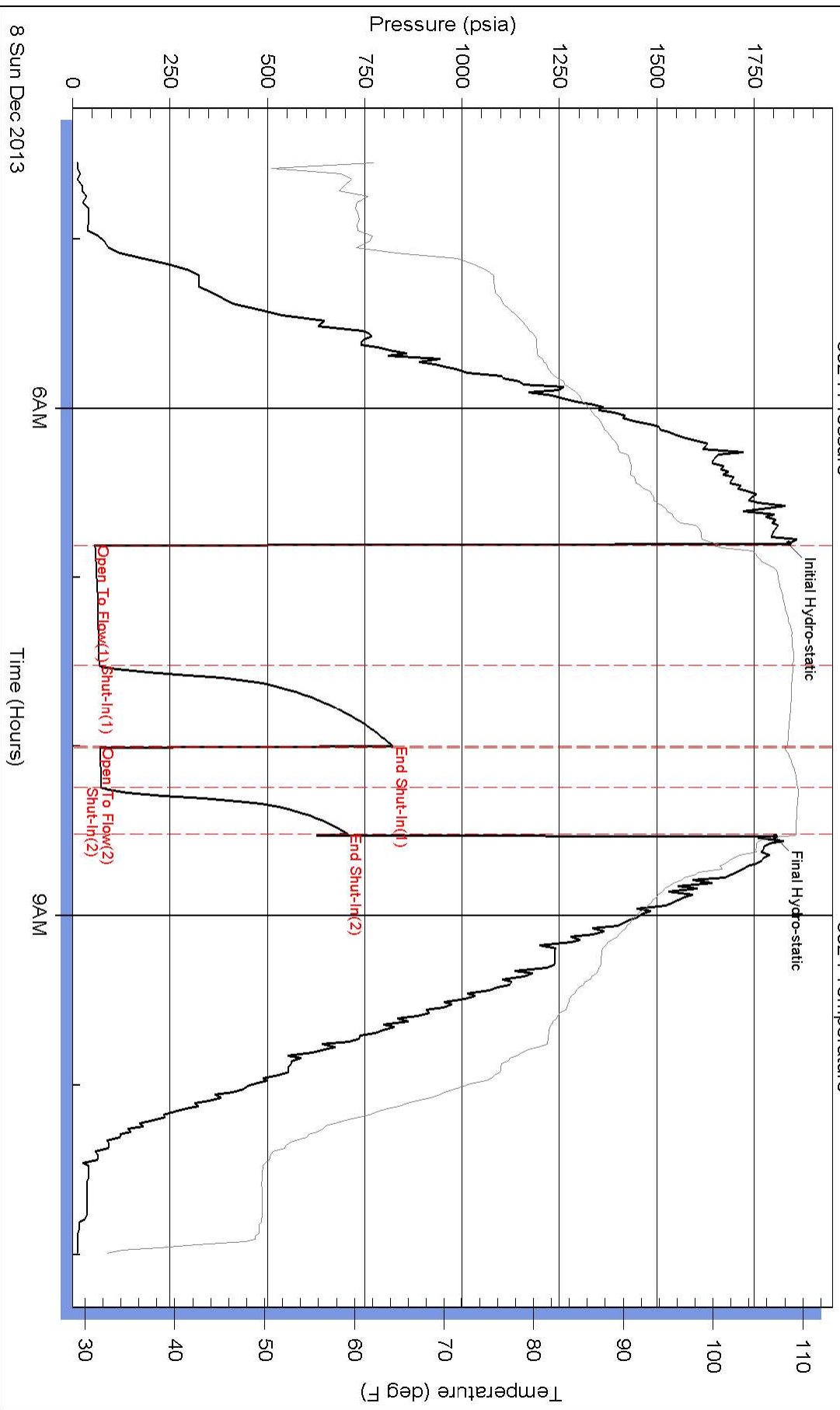
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	Oil spotted mud Oil 1% Mud 99%	0.315

Total Length: 64.00 ft Total Volume: 0.315 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



Pressure vs. Time

