



## DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B  
Hays Kansas 67601

ATTN: Justin Carter

**Benton 1-42**

**1-18s-14w-Barton**

Start Date: 2012.07.06 @ 02:45:00

End Date: 2012.07.06 @ 09:12:00

Job Ticket #: 17695                      DST #: 1

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

Printed: 2012.07.06 @ 19:26:47



# DRILL STEM TEST REPORT

Caerus Kansas LLC  
 1390 East 8th Street Suite B  
 Hays Kansas 67601  
 ATTN: Justin Carter

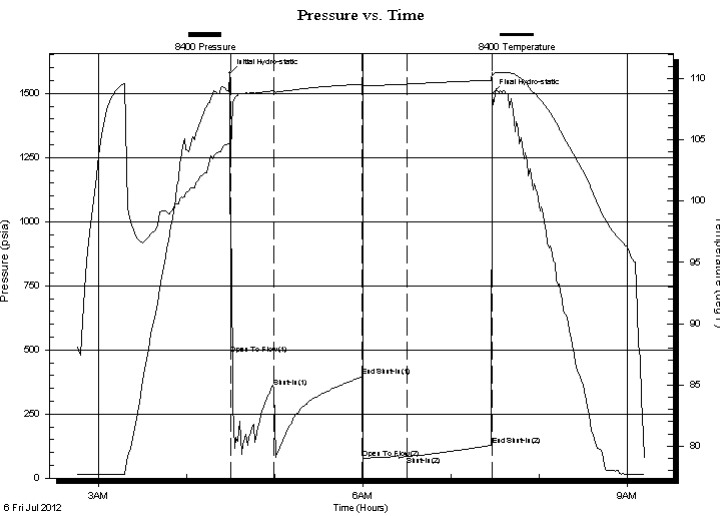
**1-18s-14w-Barton**  
**Benton 1-42**  
 Job Ticket: 17695 **DST#: 1**  
 Test Start: 2012.07.06 @ 02:45:00

## GENERAL INFORMATION:

Formation: **Lansing A-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:30:00  
 Time Test Ended: 09:12:00  
 Interval: **3096.00 ft (KB) To 3168.00 ft (KB) (TVD)**  
 Total Depth: 3168.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315 -Great Bend-22  
 Reference Elevations: 1838.00 ft (KB)  
 1828.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8400 Outside**  
 Press @ RunDepth: 84.99 psia @ 3165.75 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.06 End Date: 2012.07.06 Last Calib.: 2012.07.06  
 Start Time: 02:45:00 End Time: 09:12:00 Time On Btm: 2012.07.06 @ 04:29:30  
 Time Off Btm: 2012.07.06 @ 07:28:00

**TEST COMMENT:** 1st Open 30 minutes Weak building blow blew 1.5 inches  
 1st Shut in 60 minutes No blow back  
 2nd Open 30 minutes Very weak surface blow  
 2nd Shut in 60 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1578.86	104.78	Initial Hydro-static
1	484.35	104.26	Open To Flow (1)
30	352.80	109.02	Shut-In(1)
90	395.73	109.56	End Shut-In(1)
91	78.78	109.41	Open To Flow (2)
121	84.99	109.56	Shut-In(2)
178	127.80	109.88	End Shut-In(2)
179	1498.34	110.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud 100%	0.43

## Gas Rates

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



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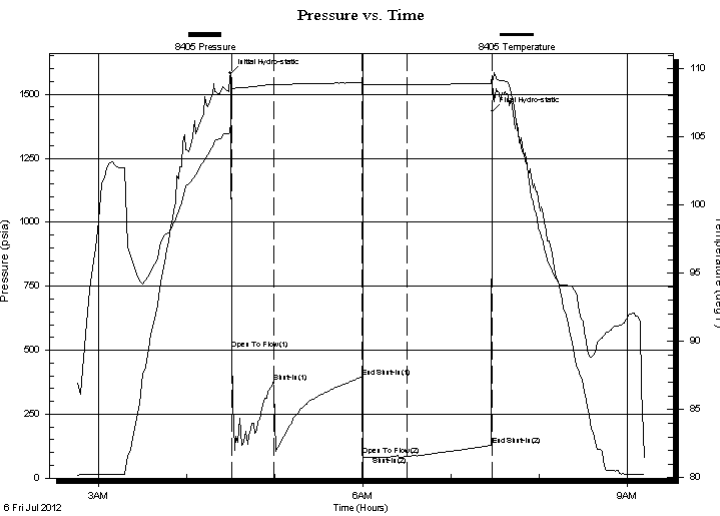
**1-18s-14w-Barton**  
**Benton 1-42**  
 Job Ticket: 17695 **DST#: 1**  
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 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315 -Great Bend-22  
 Reference Elevations: 1838.00 ft (KB)  
 1828.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8405 Inside**  
 Press @ RunDepth: 128.34 psia @ 3164.75 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.06 End Date: 2012.07.06 Last Calib.: 2012.07.06  
 Start Time: 02:45:00 End Time: 09:12:00 Time On Btm: 2012.07.06 @ 04:30:00  
 Time Off Btm: 2012.07.06 @ 07:28:00

**TEST COMMENT:** 1st Open 30 minutes Weak building blow blew 1.5 inches  
 1st Shut in 60 minutes No blow back  
 2nd Open 30 minutes Very weak surface blow  
 2nd Shut in 60 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1582.46	106.02	Initial Hydro-static
1	504.41	108.43	Open To Flow (1)
29	373.80	108.87	Shut-In(1)
90	395.45	108.95	End Shut-In(1)
90	88.11	108.81	Open To Flow (2)
120	85.08	108.84	Shut-In(2)
178	128.34	108.94	End Shut-In(2)
178	1432.43	109.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud 100%	0.43

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Caerus Kansas LLC  
 1390 East 8th Street Suite B  
 Hays Kansas 67601  
 ATTN: Justin Carter

**1-18s-14w-Barton**  
**Benton 1-42**  
 Job Ticket: 17695 **DST#: 1**  
 Test Start: 2012.07.06 @ 02:45:00

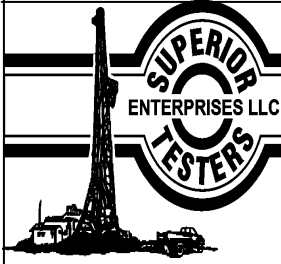
**Tool Information**

Drill Pipe:	Length: 3086.00 ft	Diameter: 3.80 inches	Volume: 43.29 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 43.29 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3096.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.75 ft			
Tool Length:	92.75 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			3081.00	
Hydraulic Tool	5.00			3086.00	
Packer	5.00			3091.00	20.00 Bottom Of Top Packer
Packer	5.00			3096.00	
Anchor	5.00			3101.00	
Change Over Sub	0.75			3101.75	
Drill Pipe	31.25			3133.00	
Change Over Sub	0.75			3133.75	
Anchor	30.00			3163.75	
Recorder	1.00	8405	Inside	3164.75	
Recorder	1.00	8400	Outside	3165.75	
Bull Plug	3.00			3168.75	72.75 Bottom Packers & Anchor

**Total Tool Length: 92.75**



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## FLUID SUMMARY

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Job Ticket: 17695      **DST#: 1**  
Test Start: 2012.07.06 @ 02:45:00

### 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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

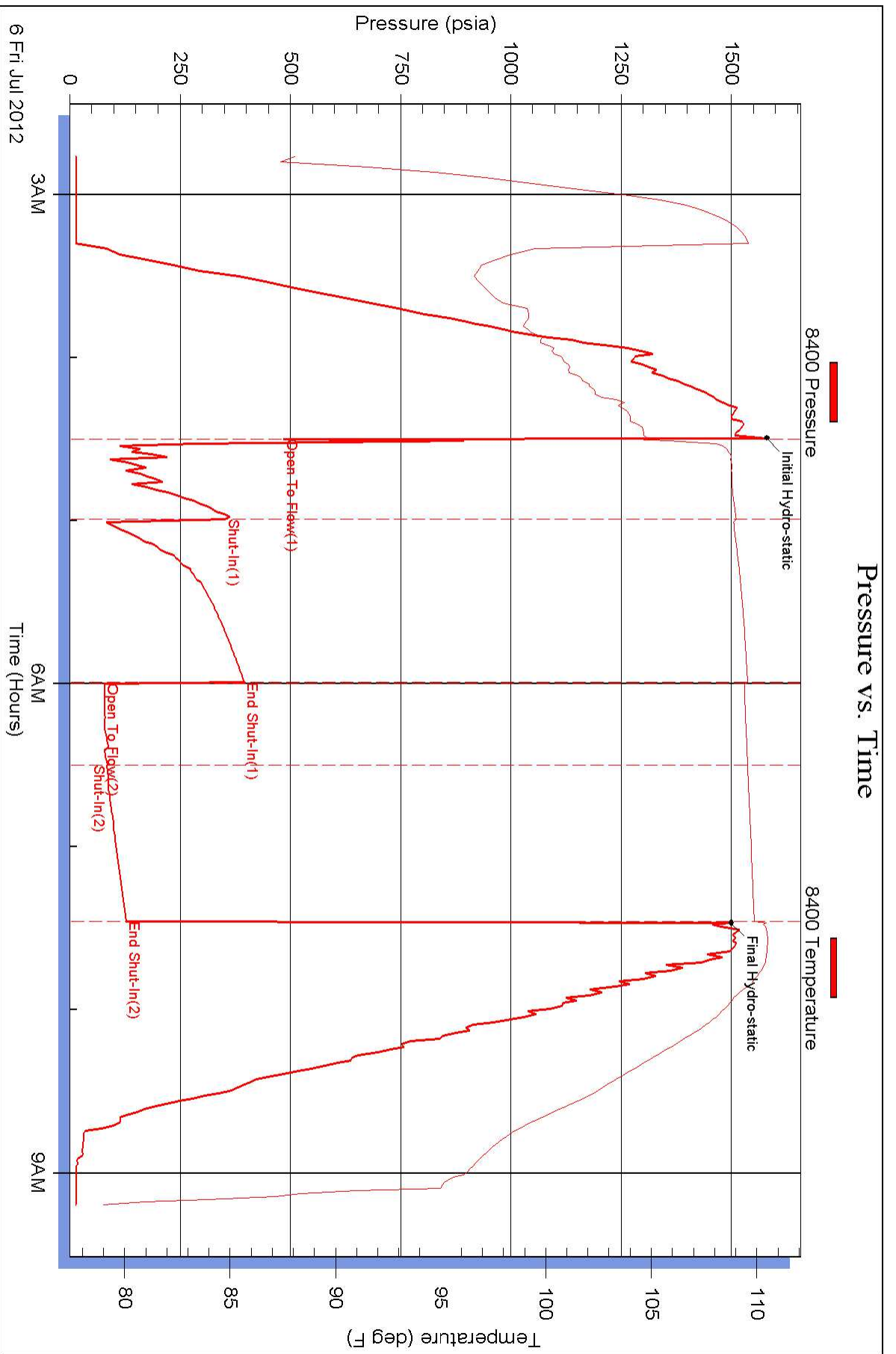
Length ft	Description	Volume bbl
31.00	Mud 100%	0.435

Total Length: 31.00 ft      Total Volume: 0.435 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



### Pressure vs. Time

