



## 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: 2012.07.08 @ 05:37:00

End Date: 2012.07.08 @ 11:46:00

Job Ticket #: 17698                      DST #: 4

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

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 Test Start: 2012.07.08 @ 05:37:00

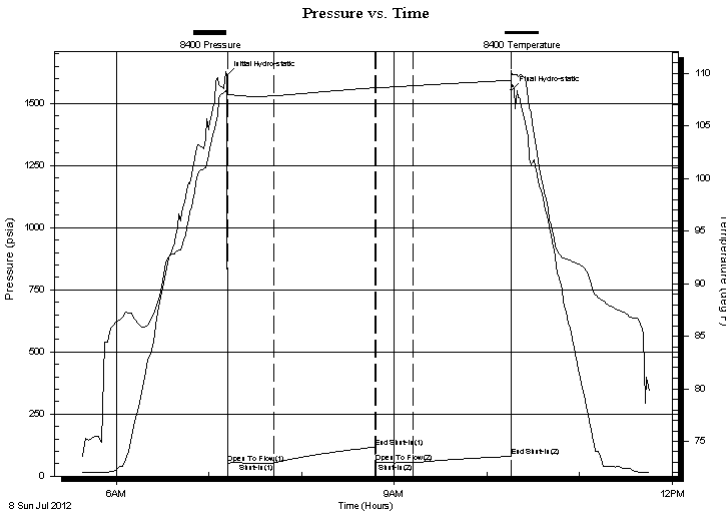
## GENERAL INFORMATION:

Formation: **Lansing H-I**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 07:12:00 Tester: Dustin Ellis  
 Time Test Ended: 11:46:00 Unit No: 3315-Great Bend-22  
 Interval: **3224.00 ft (KB) To 3263.00 ft (KB) (TVD)** Reference Elevations: 1838.00 ft (KB)  
 Total Depth: 3263.00 ft (KB) (TVD) 1828.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 8400 Outside**  
 Press @ Run Depth: 52.88 psia @ 3260.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08  
 Start Time: 05:37:00 End Time: 11:46:00 Time On Btm: 2012.07.08 @ 07:11:30  
 Time Off Btm: 2012.07.08 @ 10:16:00

**TEST COMMENT:** 1st Open 30 minutes Weakblow 1 inch blow .  
 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	1613.34	108.48	Initial Hydro-static
1	53.04	107.98	Open To Flow (1)
31	53.05	107.86	Shut-In(1)
96	117.15	108.63	End Shut-In(1)
97	56.84	108.59	Open To Flow (2)
121	52.88	108.82	Shut-In(2)
184	79.66	109.33	End Shut-In(2)
185	1553.80	110.28	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
25.00	Oil cut mud 10%OIL 90%MUD	0.35

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



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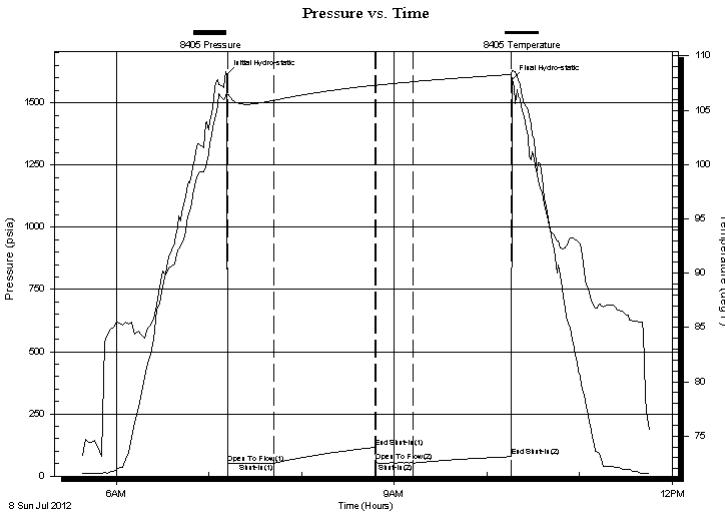
## GENERAL INFORMATION:

Formation: **Lansing H-I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:12:00  
 Time Test Ended: 11:46:00  
 Interval: **3224.00 ft (KB) To 3263.00 ft (KB) (TVD)**  
 Total Depth: 3263.00 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 #: 8405 Inside**  
 Press @ Run Depth: 78.47 psia @ 3259.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08  
 Start Time: 05:37:00 End Time: 11:46:00 Time On Btm: 2012.07.08 @ 07:11:30  
 Time Off Btm: 2012.07.08 @ 10:16:30

**TEST COMMENT:** 1st Open 30 minutes Weakblow 1 inch blow .  
 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	1612.78	106.65	Initial Hydro-static
1	51.70	106.39	Open To Flow (1)
31	51.45	105.91	Shut-In(1)
96	115.85	107.31	End Shut-In(1)
97	57.65	107.30	Open To Flow (2)
121	51.21	107.63	Shut-In(2)
185	78.47	108.28	End Shut-In(2)
185	1594.82	108.67	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
25.00	Oil cut mud 10%OIL 90%MUD	0.35

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Caerus Kansas LLC  
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**1-18s-14w-Barton**  
**Benton 1-42**  
 Job Ticket: 17698      **DST#: 4**  
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**Tool Information**

Drill Pipe:	Length: 3202.00 ft	Diameter: 3.80 inches	Volume: 44.92 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: 62000.00 lb
			<u>Total Volume: 44.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3224.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			3201.00	
Hydraulic Tool	5.00			3206.00	
Jars	6.00			3212.00	
Safety Joint	2.00			3214.00	
Packer	5.00			3219.00	28.00      Bottom Of Top Packer
Packer	5.00			3224.00	
Anchor	34.00			3258.00	
Recorder	1.00	8405	Inside	3259.00	
Recorder	1.00	8400	Outside	3260.00	
Bull Plug	3.00			3263.00	39.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>67.00</b>				



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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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Oil cut mud 10%OIL 90%MUD	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

