



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: 2012.07.07 @ 05:52:00

End Date: 2012.07.07 @ 12:39:00

Job Ticket #: 17696 DST #: 2

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

Printed: 2012.07.07 @ 11:00:01



DRILL STEM TEST REPORT

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 ATTN: Justin Carter

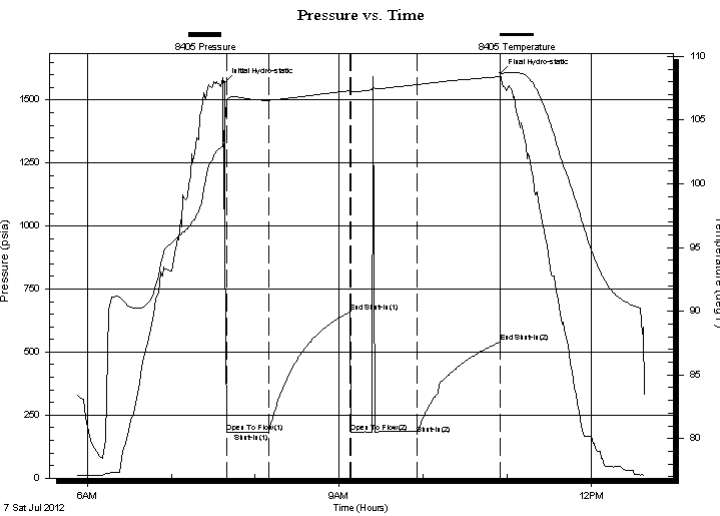
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17696 **DST#: 2**
 Test Start: 2012.07.07 @ 05:52:00

GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:39:30
 Time Test Ended: 12:39:00
 Interval: **3168.00 ft (KB) To 3228.00 ft (KB) (TVD)**
 Total Depth: 3228.00 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 @ RunDepth: 173.64 psia @ 3224.55 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.07 End Date: 2012.07.07 Last Calib.: 2012.07.07
 Start Time: 05:52:00 End Time: 12:39:00 Time On Btm: 2012.07.07 @ 07:38:00
 Time Off Btm: 2012.07.07 @ 10:55:30

TEST COMMENT: 1st Open 30 minutes No blow dead.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes No blow dead/Flushed tool no help.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1570.32	104.84	Initial Hydro-static
2	181.05	106.42	Open To Flow (1)
32	179.11	106.56	Shut-In(1)
90	659.16	107.31	End Shut-In(1)
91	180.32	107.20	Open To Flow (2)
139	173.64	107.77	Shut-In(2)
197	539.81	108.41	End Shut-In(2)
198	1606.17	108.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
274.00	Mud 100%	3.84

Gas Rates

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



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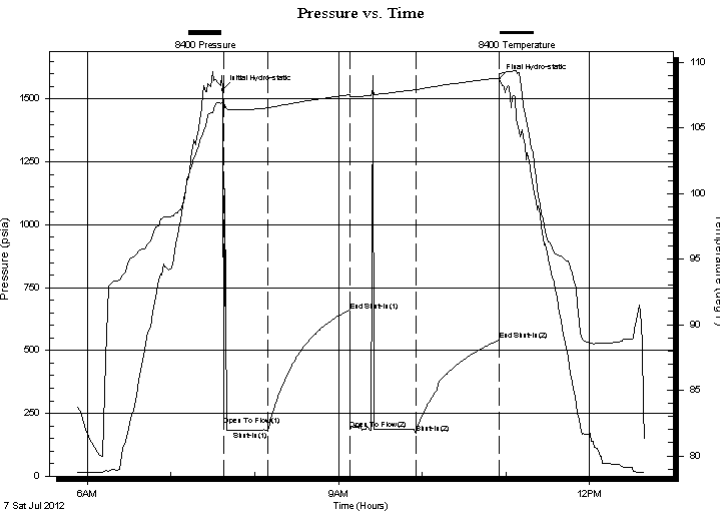
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 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press @ Run Depth: 541.22 psia @ 3225.55 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.07 End Date: 2012.07.07 Last Calib.: 2012.07.07
 Start Time: 05:52:00 End Time: 12:39:30 Time On Btm: 2012.07.07 @ 07:37:00
 Time Off Btm: 2012.07.07 @ 10:55:30

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 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes No blow dead/Flushed tool no help.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1536.50	106.86	Initial Hydro-static
1	202.14	106.19	Open To Flow (1)
32	178.26	106.52	Shut-In(1)
91	658.19	107.53	End Shut-In(1)
92	186.49	107.34	Open To Flow (2)
139	172.00	107.90	Shut-In(2)
198	541.22	108.80	End Shut-In(2)
199	1580.51	109.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
274.00	Mud 100%	3.84

Gas Rates

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



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TOOL DIAGRAM

Caerus Kansas LLC
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1-18s-14w-Barton
Benton 1-42
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 Test Start: 2012.07.07 @ 05:52:00

Tool Information

Drill Pipe:	Length: 3178.00 ft	Diameter: 3.80 inches	Volume: 44.58 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: 52000.00 lb
			<u>Total Volume: 44.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3168.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.55 ft			
Tool Length:	80.55 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			3153.00	
Hydraulic Tool	5.00			3158.00	
Packer	5.00			3163.00	20.00 Bottom Of Top Packer
Packer	5.00			3168.00	
Anchor	5.00			3173.00	
Change Over Sub	0.75			3173.75	
Drill Pipe	31.05			3204.80	
Change Over Sub	0.75			3205.55	
Anchor	18.00			3223.55	
Recorder	1.00	8405	Inside	3224.55	
Recorder	1.00	8400	Outside	3225.55	
Bull Plug	3.00			3228.55	60.55 Bottom Packers & Anchor

Total Tool Length: 80.55



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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 in³

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
274.00	Mud 100%	3.843

Total Length: 274.00 ft Total Volume: 3.843 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: packer failure picked up reset held.

Pressure vs. Time

