



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Caerus Kansas LLC  
PO BOX 1378  
Hays Ks 67601+8378  
ATTN: Brian Karlin

Wilson 31-31  
31-24s-14w -Stafford  
Job Ticket: 42819 DST#: 1  
Test Start: 2011.06.14 @ 19:31:40

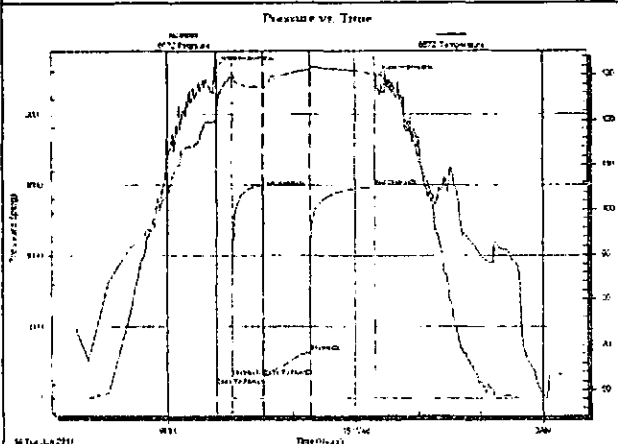
### GENERAL INFORMATION:

Formation: Arbuckle  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:47:10  
Time Test Ended: 03:19:10  
Interval: 4295.00 ft (KB) To 4378.00 ft (KB) (TVD)  
Total Depth: 4429.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Straddle  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 1997.00 ft (KB)  
1987.00 ft (CF)  
KB to GR/CF: 10.00 ft

Serial #: 6672 Inside  
Press@RunDepth: 326.95 psig @ 4364.00 ft (KB)  
Start Date: 2011.06.14 End Date: 2011.06.15  
Start Time: 19:31:40 End Time: 19:10:10  
Capacity: 8000.00 psig  
Last Calib.: 2011.06.15  
Time On Btm: 2011.06.14 @ 21:46:40  
Time Off Btm: 2011.06.15 @ 00:20:10

TEST COMMENT: IFF-Good blow BOB in 8 min  
IS-Dead no blow back  
FFP-Good blow BOB in 12 min  
FSI-Dead no blow back

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### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.47	120.49	Initial Hydro-static
1	91.12	121.26	Open To Flow (1)
15	152.05	129.65	Shut-In(1)
45	1483.19	127.24	End Shut-In(1)
48	149.00	126.73	Open To Flow (2)
90	326.95	131.04	Shut-In(2)
152	1485.77	130.19	End Shut-In(2)
154	2252.87	129.99	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
248.00	SOCGM 10%O10%G80%M	3.48
124.00	OCGWM 15%O15%G2%W68%M	1.74
31.00	OCWM 20%O2%W78%M	0.43
186.00	HOCGWM 25%O20%G15%W40%M	2.61
0.00	93 GIP	0.00

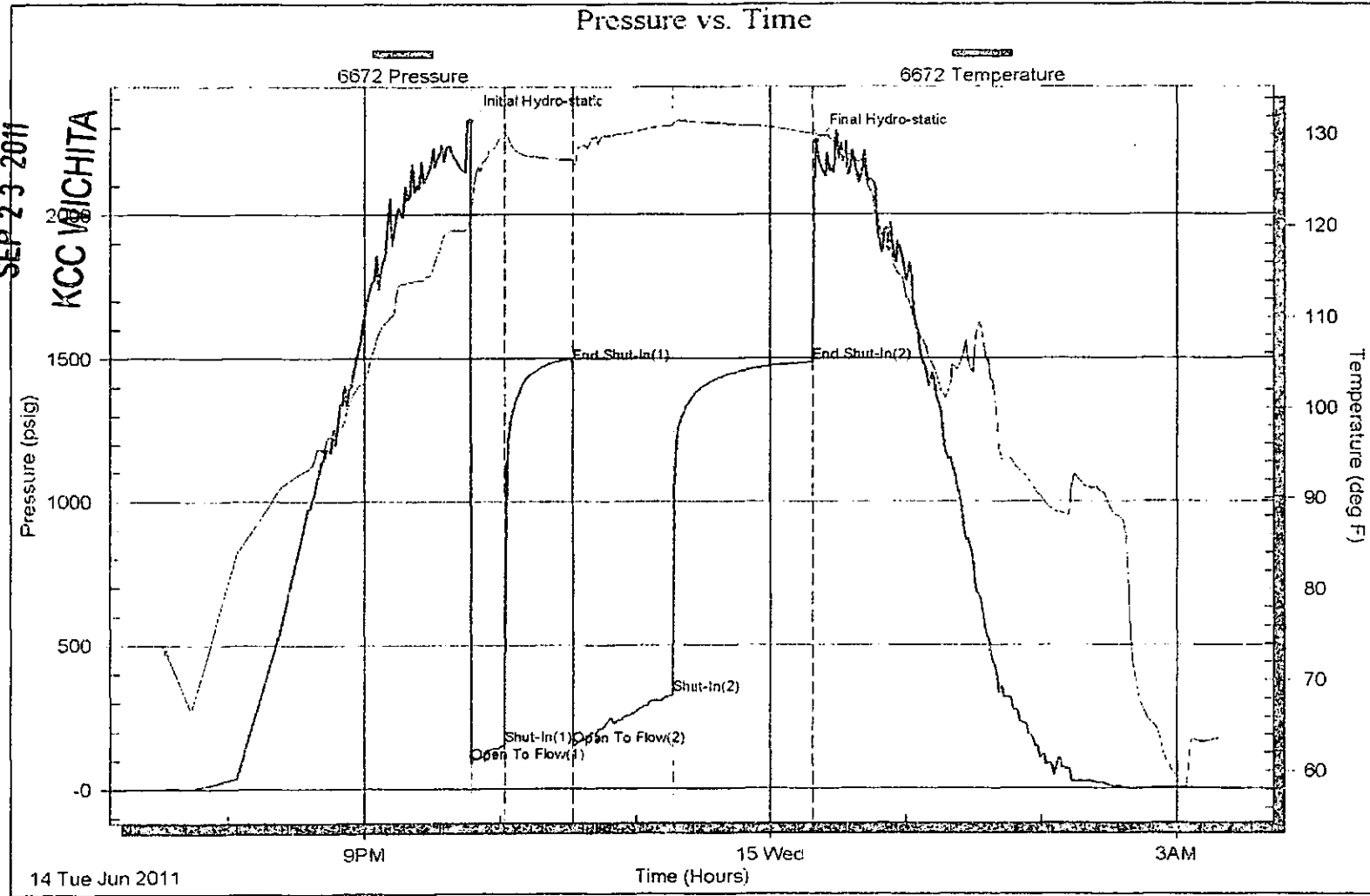
### Gas Rates

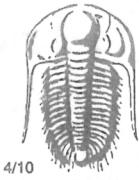
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/D)

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

JUN 15 2011

## Test Ticket

NO. 43819 15883

Well Name & No. Wilson 31-31 Test No. 1 Date 6-14-11  
 Company Caerys Kansas LLC Elevation 1997 KB 1987 GL  
 Address PO Box 1378 Hays KS 67601 + 8378  
 Co. Rep / Geo. Herb Deines Rig Maverick #108  
 Location: Sec. 31 Twp. 24 S Rge. 14 W Co. Stafford State KS

Interval Tested 4295-4378 Zone Tested ArBuckle  
 Anchor Length 4290 83-A 51-Tq.1 Drill Pipe Run 4301 Mud Wt. 9.0  
 Top Packer Depth 4378 4290 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 4378 Wt. Pipe Run 0 WL 10.8  
 Total Depth 4429 Chlorides 5000 ppm System LCM 2  
 Blow Description FF-Good Blow Bob IN 8 min  
1st-Dead No Blow Back  
FF-Good Blow Bob IN 12 min  
1st-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>Soc com</u>	<u>10</u>	<u>10</u>	<u>80</u>	<u>80</u>
<u>124</u>	<u>OC Gwm</u>	<u>15</u>	<u>15</u>	<u>2</u>	<u>48</u>
<u>31</u>	<u>OC Wm</u>	<u>20</u>	<u>20</u>	<u>2</u>	<u>78</u>
<u>186</u>	<u>HOC Gwm</u>	<u>20</u>	<u>25</u>	<u>15</u>	<u>40</u>
<u>93</u>	<u>GIP</u>				

Rec Total 589 BHT 130 Gravity \_\_\_\_\_ API RW 126.3 @ 58.1 °F Chlorides 32000 ppm

(A) Initial Hydrostatic 2322  Test 1225 T-On Location 18:58  
 (B) First Initial Flow 91  Jars 255 T-Started 19:31  
 (C) First Final Flow 152  Safety Joint 75 T-Open 21:47  
 (D) Initial Shut-In 1483  Circ Sub \_\_\_\_\_ T-Pulled 12:17  
 (E) Second Initial Flow 149  Hourly Standby \_\_\_\_\_ T-Out 3:19  
 (F) Second Final Flow 327  Mileage 56 RT 17840 Comments \_\_\_\_\_  
 (G) Final Shut-In 1486  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2253  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 8  
 Day Standby \_\_\_\_\_ Total 2228.40  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2228.40

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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