



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC.
 1390 E. 8th st., Ste. B
 Hays, KS 67601-3974
 ATTN: Roger Fisher

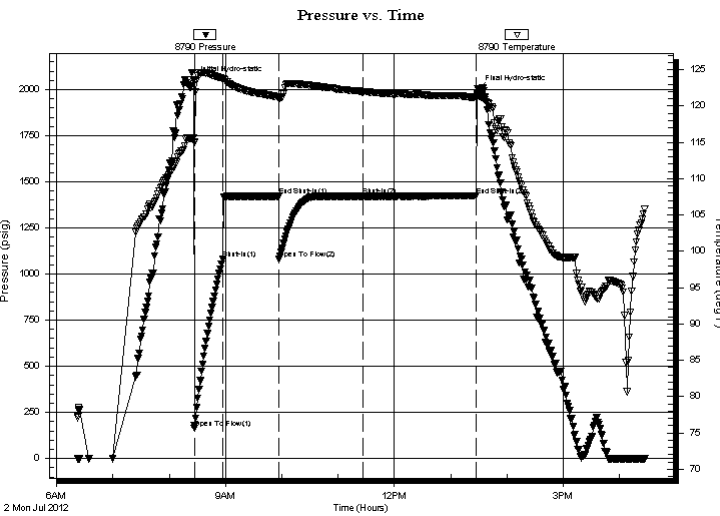
Stafford Co., KS
Astle 2-31
 Job Ticket: 46969 **DST#: 4**
 Test Start: 2012.07.02 @ 06:22:11

GENERAL INFORMATION:

Formation: **Simpson + Arbuckle**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 08:26:26
 Time Test Ended: 16:27:26
 Interval: **4068.00 ft (KB) To 4127.00 ft (KB) (TVD)**
 Total Depth: 4127.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 63
 Reference Elevations: 1929.00 ft (KB)
 1914.00 ft (CF)
 KB to GR/CF: 15.00 ft

Serial #: 8790 Inside
 Press @ Run Depth: 1421.98 psig @ 4069.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.02 End Date: 2012.07.02 Last Calib.: 2012.07.02
 Start Time: 06:22:16 End Time: 16:27:26 Time On Btm: 2012.07.02 @ 08:26:11
 Time Off Btm: 2012.07.02 @ 13:28:41

TEST COMMENT: IF: Strong blow . B.O.B. 1 1/2min. No GTS.
 IS: No blow
 FF: Strong - Fair blow . B.O.B. 3min.- 8"
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.07	115.68	Initial Hydro-static
1	163.43	114.98	Open To Flow (1)
31	1079.37	123.76	Shut-In(1)
91	1421.66	121.25	End Shut-In(1)
91	1080.21	121.05	Open To Flow (2)
180	1421.98	121.95	Shut-In(2)
301	1422.14	121.22	End Shut-In(2)
303	2001.81	121.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3180.00	SLI GCMW <1%gas, 1%mud, 98%water	23.36

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Astle 2-31

Job Ticket: 46969

DST#: 4

ATTN: Roger Fisher

Test Start: 2012.07.02 @ 06:22:11

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:

27000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.03 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3180.00	SLI GCMW <1%gas, 1%mud, 98%w ater	23.362

Total Length: 3180.00 ft Total Volume: 23.362 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

