



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC.

Stafford Co., KS

1390 E. 8th st., Ste. B
Hays, KS 67601-3974

Astle 2-31

Job Ticket: 46967

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.06.29 @ 22:38:00

GENERAL INFORMATION:

Formation: **Lansing J & K**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 00:59:15

Time Test Ended: 08:46:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 63

Interval: 3770.00 ft (KB) To 3830.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

1914.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 15.00 ft

Serial #: 8790 Inside

Press @ Run Depth: 129.71 psig @ 3771.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.29

End Date:

2012.06.30

Last Calib.: 2012.06.30

Start Time: 22:38:05

End Time:

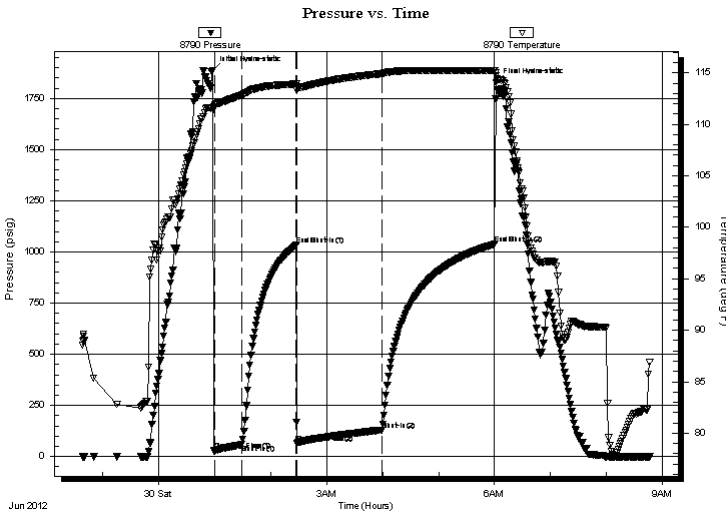
08:46:15

Time On Btm: 2012.06.30 @ 00:57:30

Time Off Btm: 2012.06.30 @ 06:01:30

TEST COMMENT: IF: Strong blow . BOB 3 min. No GTS
IS: No blow
FF: Strong blow . BOB 5 min. No GTS
FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.83	111.64	Initial Hydro-static
2	28.18	111.68	Open To Flow (1)
32	58.71	112.84	Shut-In(1)
90	1032.90	113.90	End Shut-In(1)
91	66.01	113.60	Open To Flow (2)
182	129.71	114.90	Shut-In(2)
303	1037.51	115.20	End Shut-In(2)
304	1826.29	114.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	SOCMW 1% oil, 9% mud, 90%w ater	1.29
60.00	SOCMW 5% oil, 35% mud, 60%w ater	0.44
60.00	WOCM 15%w ater, 35%oil, 50%mud	0.44
5.00	Clean oil	0.04
1400.00	GIP	10.28

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

120000 ppm

Viscosity: 58.00 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 bbbl
175.00	SOCMW 1% oil, 9% mud, 90%w ater	1.286
60.00	SOCMW 5% oil, 35% mud, 60%w ater	0.441
60.00	WOCM 15%w ater, 35%oil, 50%mud	0.441
5.00	Clean oil	0.037
1400.00	GIP	10.285

Total Length: 1700.00 ft

Total Volume: 12.490 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

