



DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

PO Box 1378
Hays, KS 67601

ATTN: JUSTIN CARTER

Hoffman 18-31

18-17S-13W Barton

Start Date: 2012.07.16 @ 03:02:17

End Date: 2012.07.16 @ 13:11:02

Job Ticket #: 46615 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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Printed: 2012.07.16 @ 13:24:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

18-17S-13W Barton

PO Box 1378
Hays, KS 67601

Hoffman 18-31

Job Ticket: 46615

DST#: 1

ATTN: JUSTIN CARTER

Test Start: 2012.07.16 @ 03:02:17

GENERAL INFORMATION:

Formation: **Lansing A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:26:32

Time Test Ended: 13:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: **3201.00 ft (KB) To 3266.00 ft (KB) (TVD)**

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3266.00 ft (KB) (TVD)

1953.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 534.35 psig @ 3202.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.16

End Date: 2012.07.16

Last Calib.: 2012.07.16

Start Time: 03:02:18

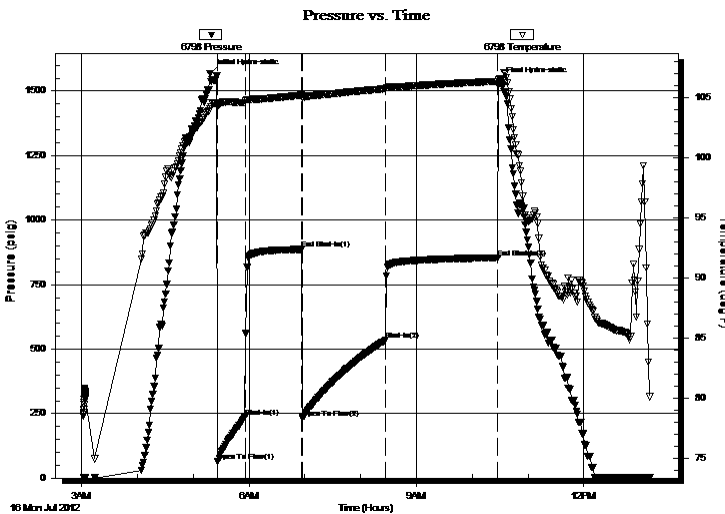
End Time: 13:11:02

Time On Btm: 2012.07.16 @ 05:18:02

Time Off Btm: 2012.07.16 @ 10:29:32

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes
IS: Weak Surface Blow Back
FF: Strong Blow , BOB in 4 minutes, GTS in 87 minutes, TSTM
FS: Surface Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.52	104.06	Initial Hydro-static
9	63.83	104.30	Open To Flow (1)
38	236.01	104.60	Shut-In(1)
99	886.57	105.18	End Shut-In(1)
100	232.73	104.99	Open To Flow (2)
189	534.35	105.72	Shut-In(2)
310	854.29	106.34	End Shut-In(2)
312	1536.60	106.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1963 GIP	0.00
372.00	Water	5.22
438.00	GWMCO 20%G 10%W 20%M 50%O	6.14
120.00	MCO 20%M 80%O	1.68
310.00	GOCM 20%G 30%O 50%M	4.35

Gas Rates

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



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FLUID SUMMARY

Caerus Kansas LLC

18-17S-13W Barton

PO Box 1378
Hays, KS 67601

Hoffman 18-31

Job Ticket: 46615

DST#: 1

ATTN: jUSTINcARTER

Test Start: 2012.07.16 @ 03:02:17

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:

95000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1963 GIP	0.000
372.00	Water	5.218
438.00	GWMCO 20%G 10%W 20%M 50%O	6.144
120.00	MCO 20%M 80%O	1.683
310.00	GOCM 20%G 30%O 50%M	4.348

Total Length: 1240.00 ft Total Volume: 17.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .07 @ 83 degrees

Pressure vs. Time

