



DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

PO Box 1378
Hays, KS 67601

ATTN: Justin Carter

Lacey 20-13

20-17S-13W Barton

Start Date: 2012.08.08 @ 13:17:02

End Date: 2012.08.08 @ 21:59:47

Job Ticket #: 49558 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.08 @ 22:43:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC
 PO Box 1378
 Hays, KS 67601
 ATTN: Justin Carter

20-17S-13W Barton
Lacey 20-13
 Job Ticket: 49558 **DST#: 4**
 Test Start: 2012.08.08 @ 13:17:02

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:40:32
 Time Test Ended: 21:59:47
 Interval: **3455.00 ft (KB) To 3475.00 ft (KB) (TVD)**
 Total Depth: 3538.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1955.00 ft (KB)
 1945.00 ft (CF)
 KB to GR/CF: 10.00 ft

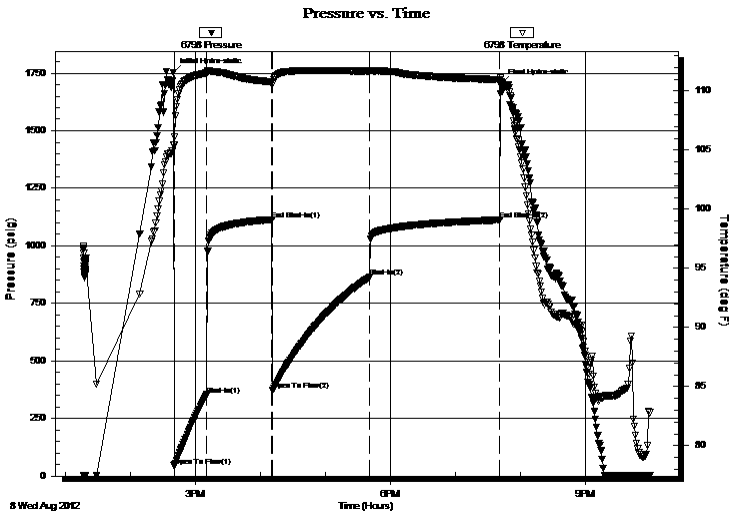
Serial #: 6798

Inside

Press @ Run Depth: 863.08 psig @ 3456.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.08 End Date: 2012.08.08 Last Calib.: 2012.08.08
 Start Time: 13:17:03 End Time: 21:59:47 Time On Btm: 2012.08.08 @ 14:39:47
 Time Off Btm: 2012.08.08 @ 19:42:32

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 5 minutes
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.82	105.42	Initial Hydro-static
1	44.03	105.42	Open To Flow (1)
31	353.50	111.51	Shut-In(1)
91	1112.30	110.75	End Shut-In(1)
92	372.67	110.65	Open To Flow (2)
182	863.08	111.66	Shut-In(2)
302	1111.78	110.95	End Shut-In(2)
303	1704.63	110.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1958.00	Water	27.47
77.00	SOMCW 2%O 30%M 68%W	1.08
5.00	Oil	0.07

* Recovery from multiple tests

Gas Rates

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



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20-17S-13W Barton

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Lacey 20-13

Job Ticket: 49558

DST#: 4

ATTN: Justin Carter

Test Start: 2012.08.08 @ 13:17:02

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:40:32

Time Test Ended: 21:59:47

Interval: **3455.00 ft (KB) To 3475.00 ft (KB) (TVD)**

Total Depth: 3538.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Reset)

Tester: Leal Cason

Unit No: 45

Reference Elevations: 1955.00 ft (KB)

1945.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8367** Outside

Press @ Run Depth: psig @ 3456.00 ft (KB)

Start Date: 2012.08.08 End Date: 2012.08.08

Start Time: 13:17:03 End Time: 21:59:47

Capacity: 8000.00 psig

Last Calib.: 2012.08.08

Time On Btm:

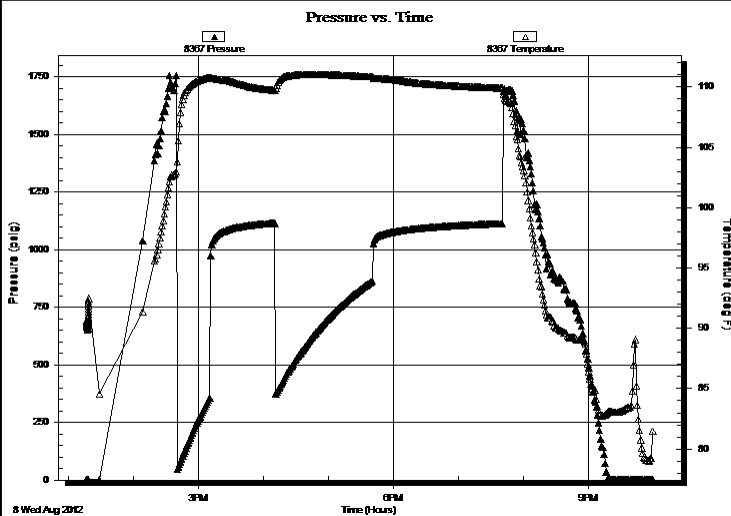
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes

IS: No Blow Back

FF: Strong Blow , BOB in 5 minutes

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1958.00	Water	27.47
77.00	SOMCW 2%O 30%M 68%W	1.08
5.00	Oil	0.07

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

Caerus Kansas LLC

20-17S-13W Barton

PO Box 1378
Hays, KS 67601

Lacey 20-13

Job Ticket: 49558

DST#: 4

ATTN: Justin Carter

Test Start: 2012.08.08 @ 13:17:02

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:40:32

Time Test Ended: 21:59:47

Test Type: Conventional Straddle (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 3455.00 ft (KB) To 3475.00 ft (KB) (TVD)

Reference Elevations: 1955.00 ft (KB)

Total Depth: 3538.00 ft (KB) (TVD)

1945.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8358 Below (Straddle)

Press @ Run Depth: psig @ 3497.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.08

End Date: 2012.08.08

Last Calib.: 2012.08.08

Start Time: 13:17:07

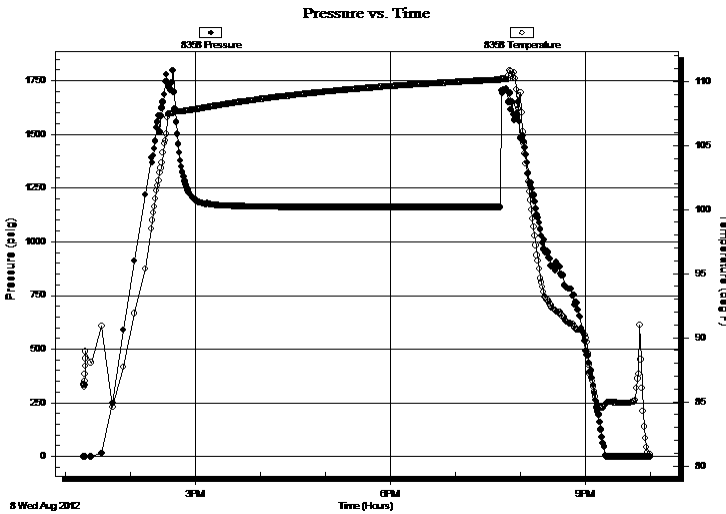
End Time: 21:59:32

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 4 minutes
IS: No Blow Back
FF: Strong Blow, BOB in 5 minutes
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1958.00	Water	27.47
77.00	SOMCW 2%O 30%M 68%W	1.08
5.00	Oil	0.07

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

20-17S-13W Barton

PO Box 1378
Hays, KS 67601

Lacey 20-13

Job Ticket: 49558

DST#: 4

ATTN: Justin Carter

Test Start: 2012.08.08 @ 13:17:02

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:

40000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1958.00	Water	27.466
77.00	SOMCW 2%O 30%M 68%W	1.080
5.00	Oil	0.070

Total Length: 2040.00 ft Total Volume: 28.616 bbl

Num Fluid Samples: 0

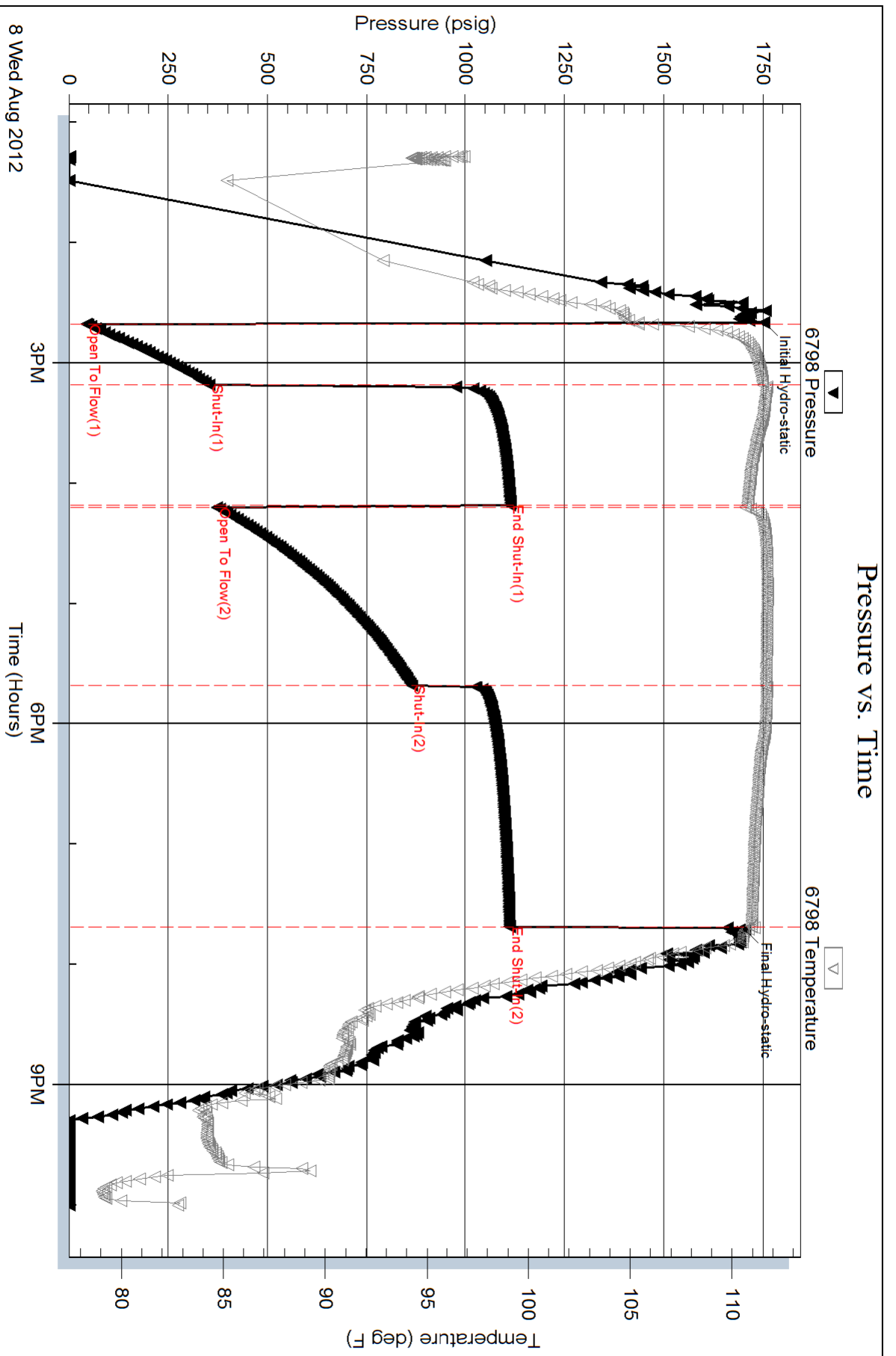
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .15 @ 85 degrees



Serial #: 8367

Outside Caerus Kansas LLC

Lacey 20-13

DST Test Number: 4

