

**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

**27-15s-14w Russell, KS**

8411 Preston Road  
Suite 800  
Dallas, TX. 75225  
ATTN: Jim Musgrove

**Kilian #4**

Job Ticket: 43479

**DST#: 1**

Test Start: 2011.09.14 @ 01:25:16

### GENERAL INFORMATION:

Formation: **B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:14:46

Time Test Ended: 08:21:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: **3025.00 ft (KB) To 3079.00 ft (KB) (TVD)**

Total Depth: 3079.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1833.00 ft (KB)

1825.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8673**

**Inside**

Press@RunDepth: 109.11 psig @ 3061.00 ft (KB)

Start Date: 2011.09.14

End Date:

2011.09.14

Capacity: 8000.00 psig

Last Calib.:

2011.09.14

Start Time: 01:25:18

End Time:

08:21:46

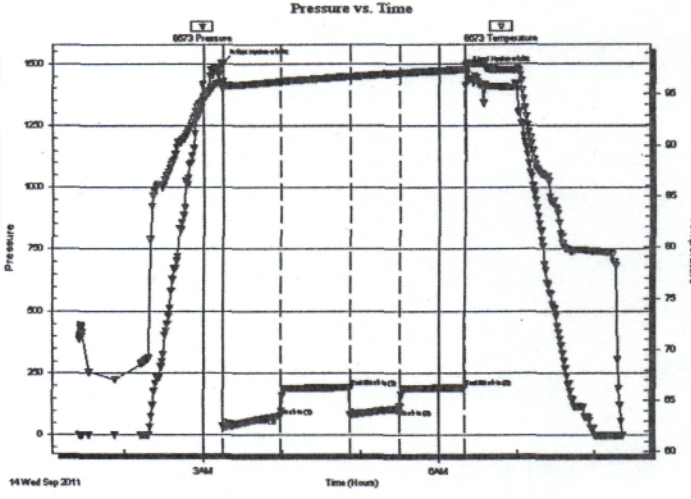
Time On Btm:

2011.09.14 @ 03:14:16

Time Off Btm:

2011.09.14 @ 06:20:31

TEST COMMENT: IFF-Good Blow ,BOB in 9 min  
ISI-Dead  
FFP-Good Blow ,BOB in 14 min  
FSI-Dead



### PRESSURE SUMMARY

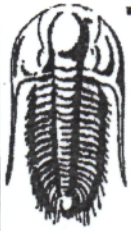
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1501.47	96.26	Initial Hydro-static
1	37.44	95.53	Open To Flow (1)
45	77.63	96.22	Shut-In(1)
97	191.43	96.76	End Shut-In(1)
98	81.70	96.70	Open To Flow (2)
136	109.11	97.05	Shut-In(2)
186	191.22	97.42	End Shut-In(2)
187	1470.26	97.88	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	Muddy Wtr W/Oil Spots	0.21
150.00	Muddy Water	2.10
0.00	255' Gas In Pipe	0.00

### Gas Rates

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



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ATTN: Jim Musgrove

**Kilian #4**

Job Ticket: 43480      DST#: 2

Test Start: 2011.09.14 @ 14:47:33

**GENERAL INFORMATION:**

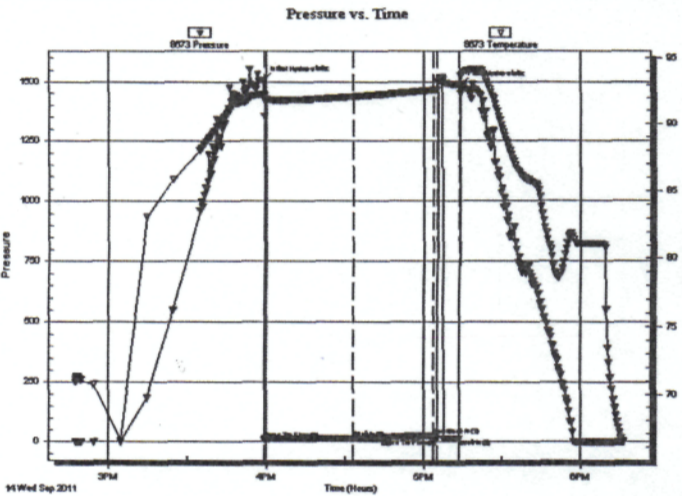
Formation: F  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 15:59:18  
Time Test Ended: 18:16:33  
Interval: **3078.00 ft (KB) To 3110.00 ft (KB) (TVD)**  
Total Depth: 3110.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 1833.00 ft (KB)  
1825.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8673**

**Inside**

Press@RunDepth: 13.66 psig @ 3080.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.09.14      End Date: 2011.09.14      Last Calib.: 2011.09.14  
Start Time: 14:47:35      End Time: 18:16:33      Time On Btm: 2011.09.14 @ 15:58:48  
Time Off Btm: 2011.09.14 @ 17:14:18

TEST COMMENT: IFF-Surge On Open, Dead  
ISL-Dead  
FFP-Flush Tool, Still Dead, Pull Tool



**PRESSURE SUMMARY**

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1508.46	92.22	Initial Hydro-static
1	11.15	91.74	Open To Flow (1)
35	13.66	92.06	Shut-In(1)
65	25.55	92.57	End Shut-In(1)
67	13.30	92.59	Open To Flow (2)
75	14.36	93.01	Shut-In(2)
76	1490.10	93.70	Final Hydro-static

**Recovery**

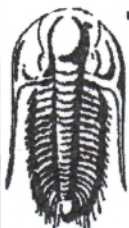
Length (ft)	Description	Volume (bbl)
3.00	Drilling Mud	0.04

\* Recovery from multiple tests

**Gas Rates**

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





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ATTN: Jim Musgrove

**Killian #4**

Job Ticket: 43481

**DST#: 3**

Test Start: 2011.09.15 @ 10:57:11

**GENERAL INFORMATION:**

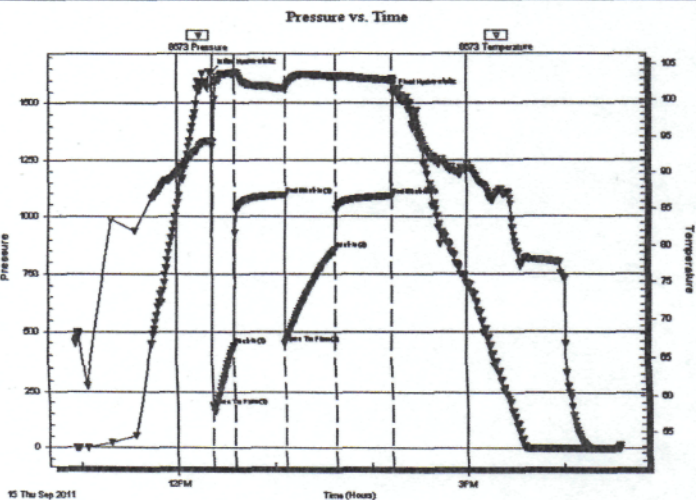
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:21:41  
 Time Test Ended: 16:35:11  
 Interval: **3220.00 ft (KB) To 3268.00 ft (KB) (TVD)**  
 Total Depth: 3268.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 1833.00 ft (KB)  
 1825.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8673**

Inside

Press@RunDepth: 855.31 psig @ 3256.00 ft (KB)  
 Start Date: 2011.09.15 End Date: 2011.09.15  
 Start Time: 10:57:13 End Time: 16:35:11  
 Capacity: 8000.00 psig  
 Last Calib.: 2011.09.15  
 Time On Btm: 2011.09.15 @ 12:21:11  
 Time Off Btm: 2011.09.15 @ 14:13:41

TEST COMMENT: IFF-Strong,BOB in 1 Min.  
 ISI-Dead  
 FFP-Strong,BOB in 1 Min. 15 Seconds.  
 FSI-Dead



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.63	94.44	Initial Hydro-static
1	184.26	93.65	Open To Flow (1)
15	437.86	103.48	Shut-In(1)
46	1093.88	101.61	End Shut-In(1)
46	448.31	101.37	Open To Flow (2)
77	855.31	103.24	Shut-In(2)
112	1090.09	102.74	End Shut-In(2)
113	1544.23	102.97	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	Free Oil	0.01
1800.00	MW W/Oil Scum	25.25

Recovery from multiple tests

**Gas Rates**

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