

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc

7-16s-11w Barton,KS

8411 Preston Rd
Ste 800
Dallas, TX 75225-5520
ATTN: Allen Bangert

Woydziak-KimmerUnit1

Job Ticket: 44772

DST#: 1

Test Start: 2011.11.15 @ 14:20:24

GENERAL INFORMATION:

Formation: LKC "J"

Deviated: No Whipstock ft (KB)

Time Tool Opened: 16:02:49

Time Test Ended: 20:18:48

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3163.00 ft (KB) To 3200.00 ft (KB) (TVD)

Total Depth: 3200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 1871.00 ft (KB)

1863.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6625

Inside

Press@RunDepth: 32.73 psig @ 3169.00 ft (KB)

Start Date: 2011.11.15

End Date:

2011.11.15

Start Time: 14:20:24

End Time:

20:18:48

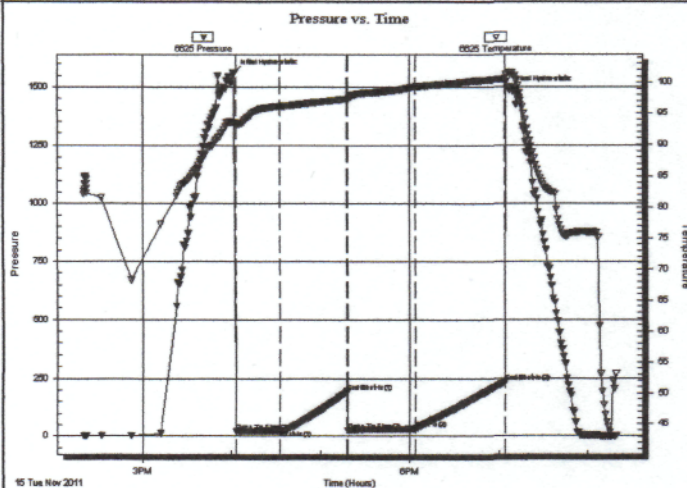
Capacity: 8000.00 psig

Last Calib.: 2011.11.15

Time On Btmr: 2011.11.15 @ 16:01:19

Time Off Btmr: 2011.11.15 @ 19:06:48

TEST COMMENT: 30-IFP-wk to a fr bl 1/2"to 4"bl
45-ISIP-no bl
45-FFP-fr to strg in 25 min
60-FSIP-no bl



PRESSURE SUMMARY

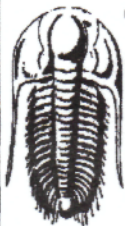
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.02	93.53	Initial Hydro-static
2	19.77	93.20	Open To Flow (1)
32	24.45	96.12	Shut-In(1)
77	193.16	97.33	End Shut-In(1)
77	26.20	97.31	Open To Flow (2)
123	32.73	99.30	Shut-In(2)
183	231.80	100.53	End Shut-In(2)
186	1488.58	101.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	390'GIP	0.00
45.00	O&GCM 10%G10%O80%M	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Mai Oil Operations Inc
8411 Preston Rd
Ste 800
Dallas, TX 75225-5520
ATTN: Allen Bangert

7-16s-11w Barton, KS

Woydziak-Kirmer Unit 1

Job Ticket: 44773

DST#: 2

Test Start: 2011.11.16 @ 11:05:13

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:38:38

Time Test Ended: 16:52:07

Interval: **3274.00 ft (KB) To 3344.00 ft (KB) (TVD)**

Total Depth: **3344.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Ray Schwager**

Unit No: **42**

Reference Elevations: **1871.00 ft (KB)**

1863.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **6625**

Inside

Press@RunDepth: **936.59 psig @ 3279.00 ft (KB)**

Start Date: **2011.11.16**

End Date:

2011.11.16

Capacity: **8000.00 psig**

Last Calib.: **2011.11.16**

Start Time: **11:05:13**

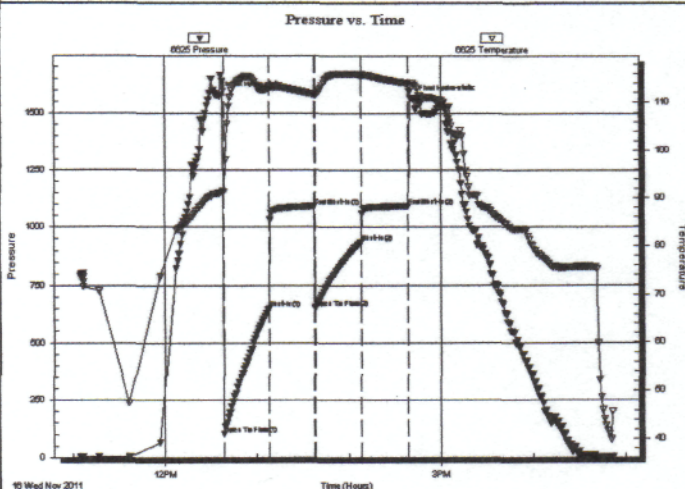
End Time:

16:52:07

Time On Btm: **2011.11.16 @ 12:35:38**

Time Off Btm: **2011.11.16 @ 14:41:38**

TEST COMMENT: 30-IFP-strg bl in 1 min
30-ISIP-no bl
30-FFP-strg bl in 1 min
30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.14	90.89	Initial Hydro-static
3	102.82	91.14	Open To Flow (1)
33	651.65	112.95	Shut-In (1)
62	1091.05	111.65	End Shut-In (1)
63	653.54	111.52	Open To Flow (2)
93	936.59	115.69	Shut-In (2)
123	1092.74	113.83	End Shut-In (2)
126	1563.34	113.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	MV 20% MB 0% W w/show of oil	1.40
2000.00	Water	28.05

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc

Ref. No: 44773

Printed: 2011.11.18 @ 10:12:03



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 17 2011

Test Ticket

NO. 44772

Well Name & No. Woydziak-Kirmer Unit #1 BY: _____ Test No. 1 Date 11-15-11
 Company MAI OIL OPERATIONS INC Elevation 1871 KB 1863 GL _____
 Address 8411 PRESTON RD, STE 800 DALLAS, TEXAS 75225-5520
 Co. Rep / Geo. Josh Austin Rig Southwind rig 3
 Location: Sec. 7 Twp. 16^s Rge. 11^w Co. BARTON State K

Interval Tested 3163-3200 Zone Tested LKC "J"
 Anchor Length 37 Drill Pipe Run 3146 Mud Wt. 9.1
 Top Packer Depth 3158 Drill Collars Run - Vis 51
 Bottom Packer Depth 3163 Wt. Pipe Run - WL 7.6
 Total Depth 3200 Chlorides 3500 ppm System LCM 1#

Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4" BLOW
ISIP - NO BLOW
FFP - FAIR TO STRONG IN 25 MIN
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>390</u>	<u>6 IP</u>				
<u>45</u>	<u>0 + 6 CM</u>	<u>10</u>	<u>10</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1561</u>	☒ Test	<u>1125</u>	T-On Location	<u>1230</u>
(B) First Initial Flow	<u>19</u>	☐ Jars		T-Started	<u>1420</u>
(C) First Final Flow	<u>24</u>	☐ Safety Joint		T-Open	<u>1555</u>
(D) Initial Shut-In	<u>193</u>	☐ Circ Sub		T-Pulled	<u>1855</u>
(E) Second Initial Flow	<u>26</u>	☐ Hourly Standby		T-Out	<u>2018</u>
(F) Second Final Flow	<u>32</u>	☒ Mileage	<u>120 RT 168</u>	Comments	
(G) Final Shut-In	<u>231</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1488</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open	<u>30</u>	☐ Shale Packer		☐ Ruined Packer	
Initial Shut-In	<u>45</u>	☐ Extra Packer		☐ Extra Copies	
Final Flow	<u>45</u>	☐ Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	☐ Day Standby		Total	<u>1293</u>
		☐ Accessibility		MP/DST Disc't	
		Sub Total	<u>1293</u>		

Approved By _____

Our Representative

Ray Schwager Thank you

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 17 2011
BY: _____

Test Ticket

NO. 44773

Well Name & No. WOYDZIAK-KIRMER UNIT #1 Test No. 2 Date 11-16-11
Company MAIDOL OPERATIONS INC Elevation 1871 KB 1863 GL
Address 8411 PRESTON RD, STE 800 DALLAS, TEXAS 75225-5520
Co. Rep / Geo. JOSH AUSTIN Rig SOUTHWIND RIG 3
Location: Sec. 7 Twp. 16^s Rge. 11^w Co. BARTON State Ks

Interval Tested 3274-3344 Zone Tested ARBuckle
Anchor Length 20 Drill Pipe Run 3273 Mud Wt. 9.1
Top Packer Depth 3269 Drill Collars Run - Vis 51
Bottom Packer Depth 3274 Wt. Pipe Run - WL 7.6
Total Depth 3344 Chlorides 3500 ppm System LCM 1#

Blow Description IFP - STRONG BLOW IN 1min
ISIP - NO BLOW
FFP - STRONG BLOW IN 1min
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>Feet of MW w/show of oil</u>			<u>80</u>	<u>20</u>
<u>2000</u>	<u>Feet of WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2100 BHT 1 Gravity - API RW .39 @ 64 °F Chlorides 19000 ppm

(A) Initial Hydrostatic 1577
(B) First Initial Flow 102
(C) First Final Flow 651
(D) Initial Shut-In 1091
(E) Second Initial Flow 653
(F) Second Final Flow 936
(G) Final Shut-In 1092
(H) Final Hydrostatic 1563

☒ Test 1125
☐ Jars
☐ Safety Joint
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 120 RT 168
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1293

T-On Location 1045
T-Started 1105
T-Open 1235
T-Pulled 1435
T-Out 1652
Comments _____

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1293
MP/DST Disc't _____

Approved By _____

Our Representative RAY SCHWAGER

Thank you

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