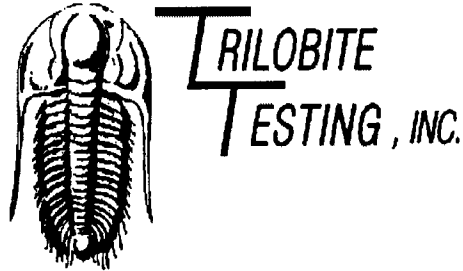


15-051-25340

2-11s-19w



## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operation, INC.**

P.O. Box 33  
Russell, Ks 67665

ATTN: David Shumake

**2-11s-19w Ellis**

**Brin # 1**

Start Date: 2004.09.04 @ 11:20:38

End Date: 2004.09.04 @ 15:44:23

Job Ticket #: 20051                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mai Oil Operation, INC.

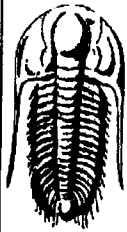
Brin # 1

2-11s-19w Ellis

DST # 1

LKE

2004.09.04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operation, INC.

**Brin # 1**

P.O. Box 33  
Russell, Ks 67665

**2-11s-19w Ellis**

Job Ticket: 20051

**DST#: 1**

ATTN: David Shumake

Test Start: 2004.09.04 @ 11:20:38

## GENERAL INFORMATION:

Formation: **LKE**

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

Time Tool Opened: 12:58:38

Time Test Ended: 15:44:23

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **15**

Interval: **3399.00 ft (KB) To 3439.00 ft (KB) (TVD)**

Reference Elevations: **2127.00 ft (KB)**

Total Depth: **3439.00 ft (KB) (TVD)**

**2122.00 ft (CF)**

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

KB to GR/CF: **5.00 ft**

**Serial #: 6724** Inside

Press@RunDepth: **12.61 psig @ 3440.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.09.04**

End Date:

**2004.09.04**

Last Calib.: **1899.12.30**

Start Time: **11:20:38**

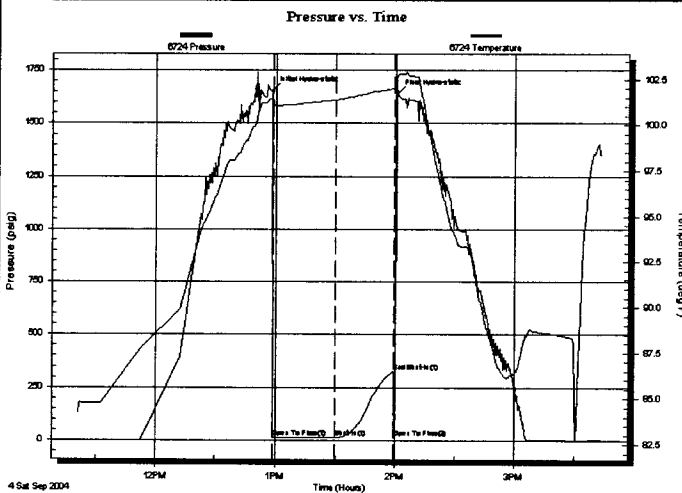
End Time:

**15:44:23**

Time On Btrm: **2004.09.04 @ 12:58:23**

Time Off Btrm: **2004.09.04 @ 14:00:38**

**TEST COMMENT:** F: V/Weak surface blow died after open.  
IS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.23	101.45	Initial Hydro-static
1	11.03	101.05	Open To Flow (1)
32	12.61	101.39	Shut-In(1)
61	325.22	102.01	End Shut-In(1)
61	14.56	101.86	Open To Flow (2)
63	1642.53	102.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	m 100% m	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operation, INC.

Brin # 1

P.O. Box 33  
Russell, Ks 67665

2-11s-19w Ellis

Job Ticket: 20051

DST#: 1

ATTN: David Shumake

Test Start: 2004.09.04 @ 11:20:38

### Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.80 inches	Volume: 46.64 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 79000.00 lb
			<u>Total Volume: 47.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3439.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3419.00	
Shut In Tool	5.00			3424.00	
Hydraulic tool	5.00			3429.00	
Packer	5.00			3434.00	21.00 Bottom Of Top Packer
Packer	5.00		Fluid	3439.00	
Stubb	1.00			3440.00	
Recorder	0.00	6724	Inside	3440.00	
Perforations	35.00			3475.00	
Recorder	0.00	13849	Outside	3475.00	
Bullnose	4.00			3479.00	40.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>61.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operation, INC.

**Brin # 1**

P.O. Box 33  
Russell, Ks 67665

**2-11s-19w Ellis**

Job Ticket: 20051

**DST#: 1**

ATTN: David Shumake

Test Start: 2004.09.04 @ 11:20:38

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	m 100% m	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6724

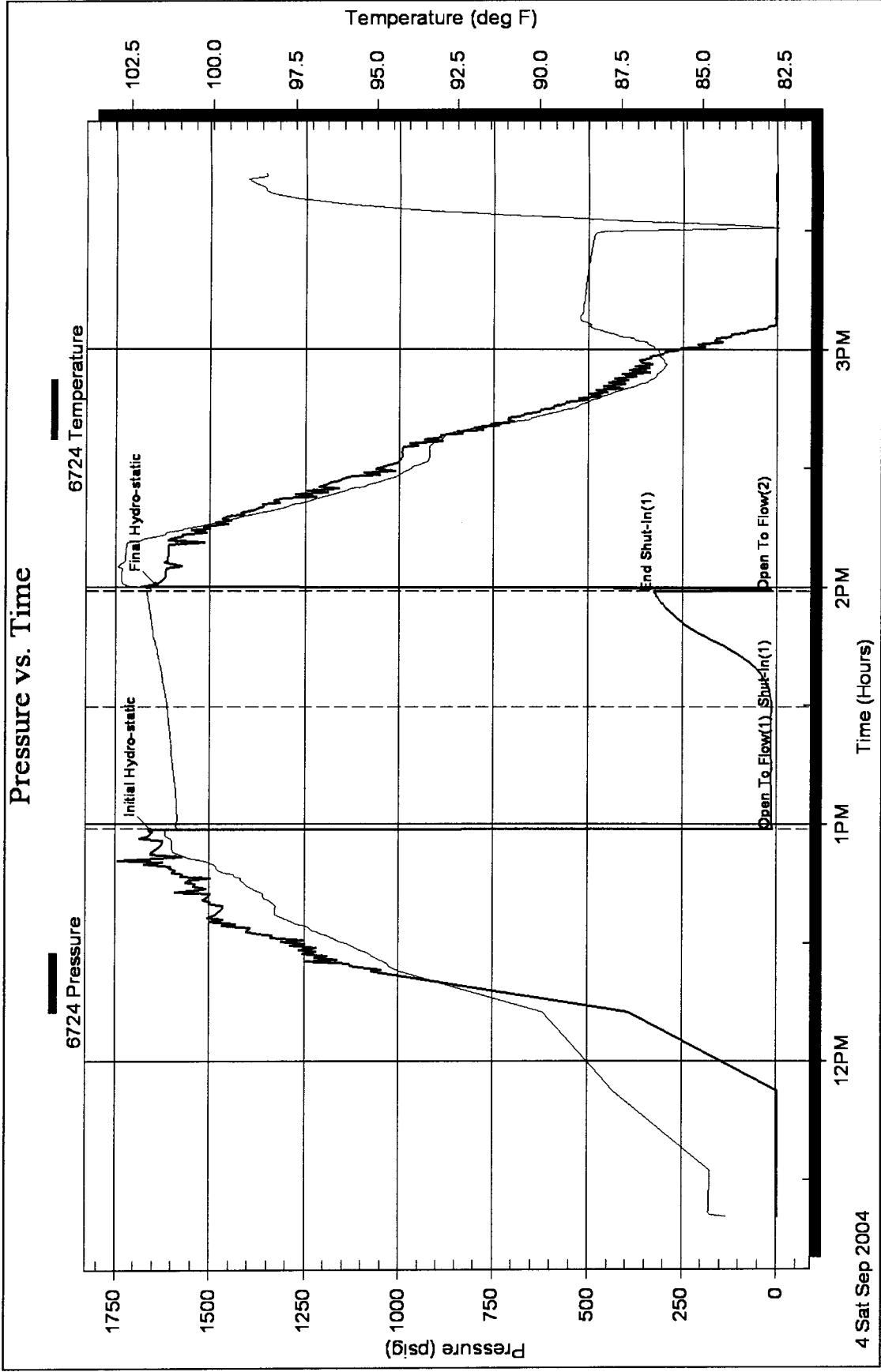
Inside

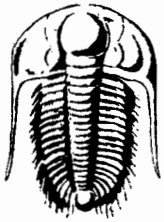
Maj Oil Operation, INC.

2-11s-19w Ellis

DST Test Number: 1

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 6749

No 20051

05/03

## Test Ticket

Well Name & No. Brin #1 Test No. 1 Date 9-4-04  
 Company Maj Oil Operation, INC. Zone Tested LKC  
 Address P.O. Box 33 Russell, KS 67665 Elevation 2127 KB 2122 GL  
 Co. Rep / Geo. David Shumaker Cont. Martin 16 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 2 Twp. 10S Rge. 19W Co. Ell, 3 State KS  
 No. of Copies norm Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3399 3439 Initial Str Wt./Lbs. 59,000 Unseated Str Wt./Lbs. \_\_\_\_\_  
 Anchor Length \_\_\_\_\_ 40 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. \_\_\_\_\_  
 Top Packer Depth \_\_\_\_\_ 3394 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 3399 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 3439 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 120  
 Mud Wt. 9.0 LCM  Vis. 51 WL 9.6 Drill Pipe Size 4 1/2 X H Ft. Run 3325  
 Blow Description IF: U/weak surface blow died after open.  
IS: NO return,

Recovery - Total Feet 2 GIP \_\_\_\_\_ Ft. in DC 2 Ft. in DP \_\_\_\_\_  
 Rec. 2 Feet of Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 100 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 102 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery 4000 Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1054</u> PSI	<u>6724</u>	<u>X</u>
(B) First Initial Flow Pressure		<u>11</u> PSI	(depth) <u>3400</u>	Elec. Rec. <u>X</u>
(C) First Final Flow Pressure		<u>12</u> PSI	Recorder No. <u>13848</u>	Jars _____
(D) Initial Shut-In Pressure		<u>325</u> PSI	(depth) <u>3435</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>14</u> PSI	Recorder No. _____	Circ Sub <u>X NIL</u>
(F) Second Final Flow Pressure		_____ PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		_____ PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1692</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

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Approved By [Signature]  
 Our Representative [Signature]

Final Flow ~~1030~~ Shale Packer 34.00  
 Final Shut-In \_\_\_\_\_ Mileage 288 ~~2448~~  
 T-On Location 1030 Sub Total: 934.00  
 T-Started 1120 Std. By \_\_\_\_\_  
 T-Open 1258 Other \_\_\_\_\_  
 T-Pulled 1458 Total: \_\_\_\_\_  
 T-Out 1543

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart

13849 DST<sup>m</sup> Mg<sup>1</sup> O/I operation

