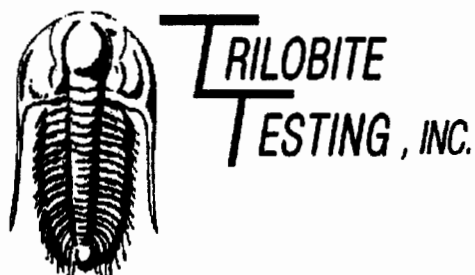


15-167-23414

36-11s-15w



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

Box 33
Russell KS 67665

ATTN: Allen Bangert

36 11 15 Russell KS

Koester # 1

Start Date: 2007.04.14 @ 04:15:35

End Date: 2007.04.14 @ 11:13:20

Job Ticket #: 27466

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc

Box 33
Russell KS 67665

ATTN: Allen Bangert

Koester # 1

36 11 15 Russell KS

Job Ticket: 27466

DST#: 1

Test Start: 2007.04.14 @ 04:15:35

GENERAL INFORMATION:

Formation: **A-C LKC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 06:42:05
Time Test Ended: 11:13:20

Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **38**

Interval: **2985.00 ft (KB) To 3070.00 ft (KB) (TVD)**
Total Depth: **3070.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1832.00 ft (KB)**
1824.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **105.69 psig @ 2988.00 ft (KB)**

Start Date: **2007.04.14**

End Date:

2007.04.14

Start Time: **04:15:37**

End Time:

11:13:20

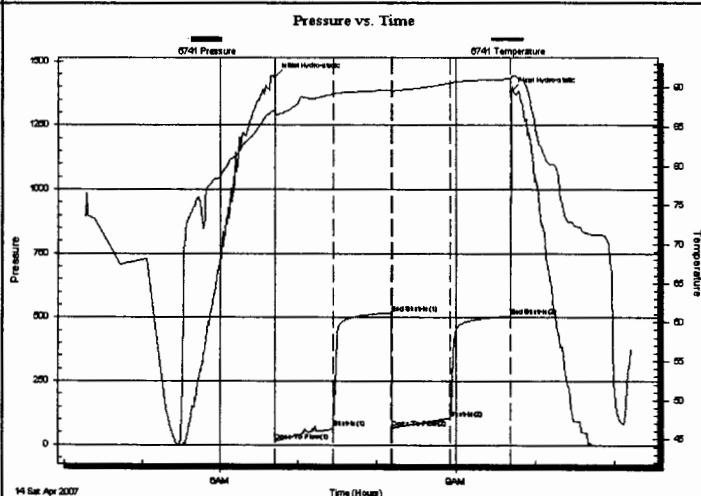
Capacity: **7000.00 psig**

Last Calib.: **2007.04.14**

Time On Btrr: **2007.04.14 @ 06:41:50**

Time Off Btrr: **2007.04.14 @ 09:41:20**

TEST COMMENT: IF Weak building to 5 "
FF Weak building to 1 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1438.73	87.05	Initial Hydro-static
1	13.16	86.76	Open To Flow (1)
45	67.30	89.14	Shut-In(1)
89	518.45	89.71	End Shut-In(1)
90	65.70	89.61	Open To Flow (2)
134	105.69	90.57	Shut-In(2)
179	506.51	91.11	End Shut-In(2)
180	1381.58	91.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Wtr	0.42
124.00	Silty OCM 5%O 95%M	1.74
85.00	MCO 70%O 30%M	1.19
0.00	95 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc

Koester # 1

Box 33
Russell KS 67665

36 11 15 Russell KS

Job Ticket: 27466

DST#: 1

ATTN: Allen Bangert

Test Start: 2007.04.14 @ 04:15:35

Tool Information

Drill Pipe:	Length:	2981.00 ft	Diameter:	3.80 inches	Volume:	41.82 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	41.82 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft					String Weight: Initial	40000.00 lb	
Depth to Top Packer:	2985.00 ft					Final	41000.00 lb	
Depth to Bottom Packer:	ft							
Interval between Packers:	85.00 ft							
Tool Length:	106.00 ft							
Number of Packers:	2	Diameter:	6.75 inches					
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2965.00	
Shut In Tool	5.00			2970.00	
Hydraulic tool	5.00			2975.00	
Packer	5.00			2980.00	21.00 Bottom Of Top Packer
Packer	5.00			2985.00	
Stubb	1.00			2986.00	
Perforations	1.00			2987.00	
Change Over Sub	1.00			2988.00	
Recorder	0.00	6741	Inside	2988.00	
Drill Pipe	62.00			3050.00	
Change Over Sub	1.00			3051.00	
Recorder	0.00	13254	Outside	3051.00	
Perforations	16.00			3067.00	
Bullnose	3.00			3070.00	85.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

Koester # 1

Box 33
Russell KS 67665

36 11 15 Russell KS

Job Ticket: 27466

DST#: 1

ATTN: Allen Bangert

Test Start: 2007.04.14 @ 04:15:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Wtr	0.421
124.00	Sltty OCM 5%O 95%M	1.739
85.00	MCO 70%O 30%M	1.192
0.00	95 GIP	0.000

Total Length: 239.00 ft

Total Volume: 3.352 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .12 @ 80 = 65000ppm

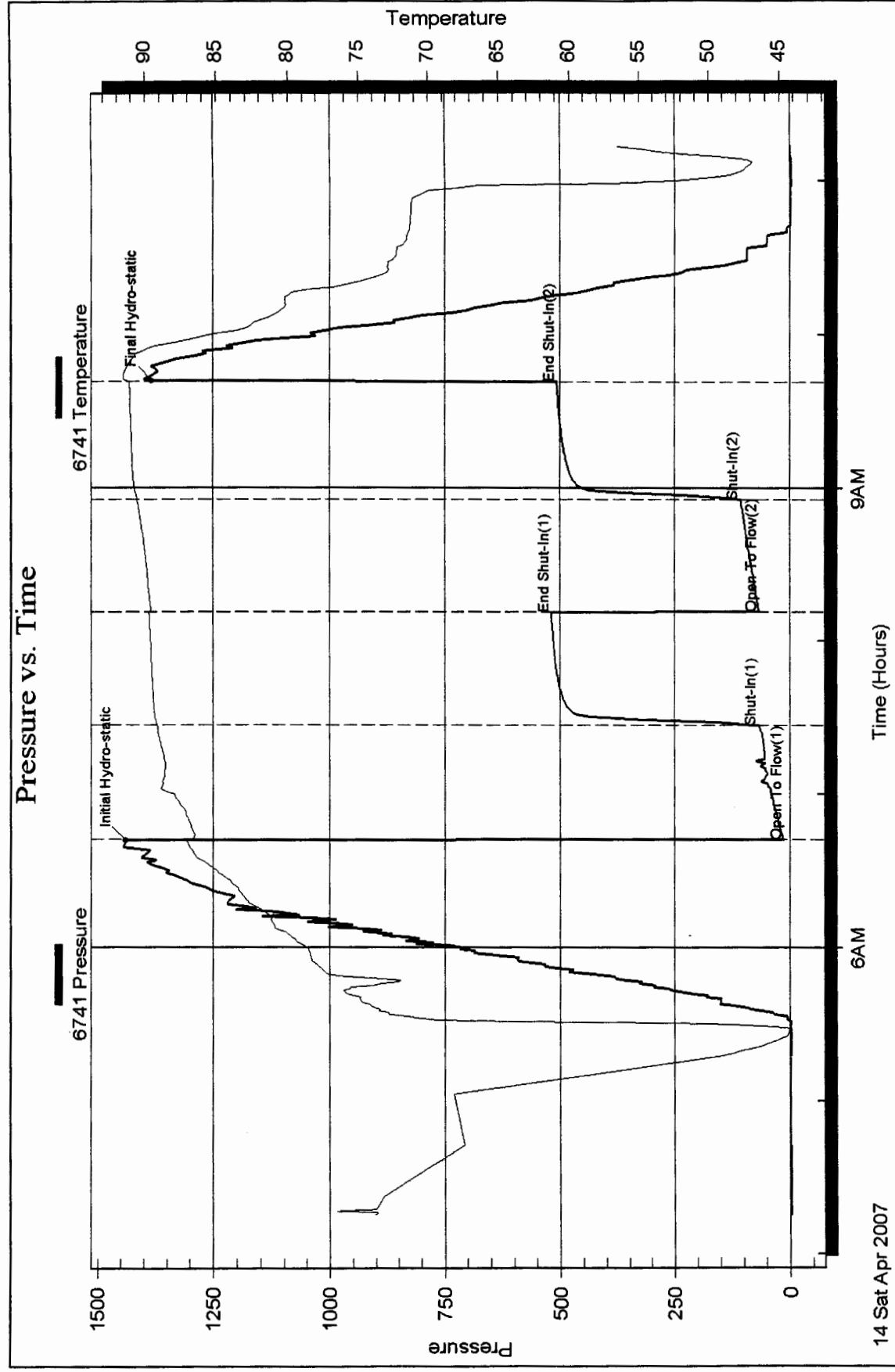
Serial #: 6741

Inside

Mai Oil Operations Inc

36 11 15 Russell KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

Box 33
Russell KS 67665

ATTN: Allen Bangert

36 11 15 Russell KS

Koester # 1

Start Date: 2007.04.14 @ 19:40:43

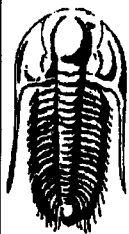
End Date: 2007.04.15 @ 00:48:58

Job Ticket #: 27467 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc

Box 33
Russell KS 67665

ATTN: Allen Bangert

Koester # 1

36 11 15 Russell KS

Job Ticket: 27467

DST#: 2

Test Start: 2007.04.14 @ 19:40:43

GENERAL INFORMATION:

Formation: **E-G LKC**

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

Time Tool Opened: 20:53:03

Time Test Ended: 00:48:58

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Interval: 3074.00 ft (KB) To 3114.00 ft (KB) (TVD)

Total Depth: **3114.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1832.00 ft (KB)**

1824.00 ft (CF)

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

Serial #: 6741 **Inside**

Press@RunDepth: **14.94 psig @ 3077.00 ft (KB)**

Start Date: **2007.04.14**

End Date:

2007.04.15

Capacity: **7000.00 psig**

Last Calib.: **2007.04.15**

Start Time: **19:40:45**

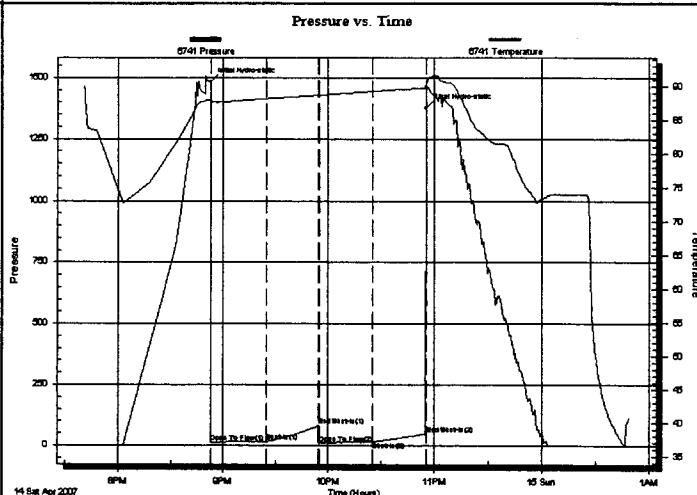
End Time:

00:48:58

Time On Btmr: **2007.04.14 @ 20:52:43**

Time Off Btmr: **2007.04.14 @ 22:55:28**

TEST COMMENT: IF Weak steady surface blow
FF Weak steady 1/4 " blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.53	88.05	Initial Hydro-static
1	11.65	87.75	Open To Flow (1)
33	14.98	88.18	Shut-In(1)
62	80.09	88.68	End Shut-In(1)
62	9.62	88.67	Open To Flow (2)
93	14.94	89.25	Shut-In(2)
123	47.82	89.75	End Shut-In(2)
123	1376.93	90.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 20%O 80%M	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc

Koester # 1

Box 33
Russell KS 67665

36 11 15 Russell KS

Job Ticket: 27467

DST#: 2

ATTN: Allen Bangert

Test Start: 2007.04.14 @ 19:40:43

Tool Information

Drill Pipe:	Length: 3074.00 ft	Diameter: 3.80 inches	Volume: 43.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 43.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3074.00 ft			Final 40000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3054.00	
Shut In Tool	5.00			3059.00	
Hydraulic tool	5.00			3064.00	
Packer	5.00			3069.00	21.00 Bottom Of Top Packer
Packer	5.00			3074.00	
Stubb	1.00			3075.00	
Perforations	1.00			3076.00	
Change Over Sub	1.00			3077.00	
Recorder	0.00	6741	Inside	3077.00	
Drill Pipe	31.00			3108.00	
Change Over Sub	1.00			3109.00	
Recorder	0.00	13254	Outside	3109.00	
Perforations	2.00			3111.00	
Bullnose	3.00			3114.00	40.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

Koester # 1

Box 33
Russell KS 67665

36 11 15 Russell KS

Job Ticket: 27467

DST#: 2

ATTN: Allen Bangert

Test Start: 2007.04.14 @ 19:40:43

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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 20%O 80%M	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

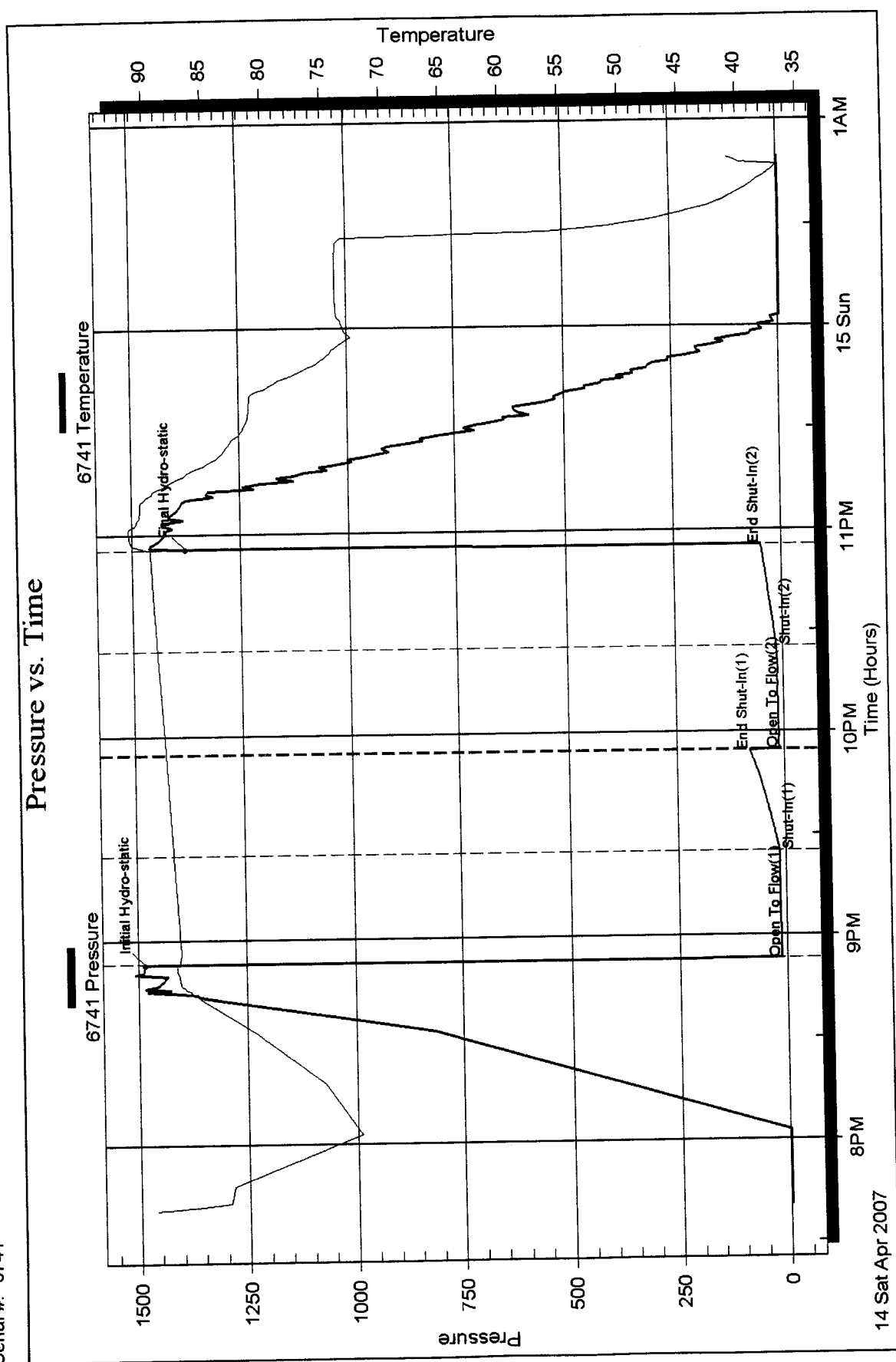
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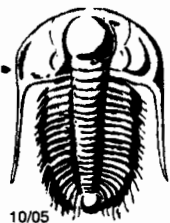
36 11 15 Russell KS

Inside Mai Oil Operations Inc

Serial #: 6741

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27466 ✓

10039

Test Ticket

Well Name & No. <u>Koester #1</u>	Test No. <u>1</u>	Date <u>4-14-07</u>
Company <u>Mai Oil Operations Inc</u>	Zone Tested <u>A-C</u>	<u>LKC</u>
Address <u>Box 33 Russell Ks 67665</u>	Elevation <u>1832</u> KB <u>1824</u>	GL
Co. Rep / Geo. <u>Kitt Noah</u>	Rig <u>Southwind #3</u>	
Location: Sec. <u>36</u> Twp. <u>11</u> Rge. <u>15</u>	Co. <u>Russell</u>	State <u>Ks</u>
Comment: _____		Release date / time: _____

Interval Tested 2985 ——— 3070 Initial Str Wt./Lbs. 49,000 Unseated Str Wt/Lbs. 44,000
 Anchor Length 85 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 79,800
 Top Packer Depth 2980 Tool Weight 2000
 Bottom Packer Depth 2985 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3070 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 8.5 LCM _____ Vis. 50 WL 6.4 Drill Pipe Size 4.5 XH Ft. Run 2981
 Blow Description I.F. Weak - building to 5"

I.F. Weak - building to 1"

Recovery - Total Feet <u>239</u>	GIP <u>95</u>	Ft. in DC _____	Ft. in DP <u>239</u>
Rec. <u>85</u> Feet of <u>MCO</u>	%gas <u>70</u> %oil _____	%water <u>30</u> %mud _____	
Rec. <u>124</u> Feet of <u>SIT/1 OCM</u>	%gas <u>5</u> %oil _____	%water <u>95</u> %mud _____	
Rec. <u>30</u> Feet of <u>WTR</u>	%gas _____ %oil _____	%water _____ %mud _____	
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____ %mud _____	
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____ %mud _____	
BHT <u>91</u> °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API			
RW <u>.12</u> @ <u>80</u> °F Chlorides <u>65,000</u> ppm Recovery _____ Chlorides <u>4100</u> ppm System			

AK-1	Alpine		
(A) Initial Hydrostatic Mud <u>1459</u> PSI	Recorder No. <u>6741</u>	Test <u>1100</u>	
(B) First Initial Flow Pressure <u>13</u> PSI	(depth) <u>2988</u>	Jars _____	
(C) First Final Flow Pressure <u>67</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure <u>518</u> PSI	(depth) <u>3051</u>	Circ Sub _____	
(E) Second Initial Flow Pressure <u>65</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure <u>105</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure <u>506</u> PSI	Initial Opening <u>45</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud <u>1375</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____	
	Final Flow <u>4</u>	Ruined Packer _____	
	Final Shut-In _____	Mileage <u>106 RT 132</u>	

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Approved By _____

Our Representative Don Bangs

T-On Location 02:00

T-Started 04:15

T-Open 06:40

T-Pulled 09:40

T-Out 11:13

Sub Total: 1232.52

Std. By 1.25 125

Acc. Chg: 1357.50

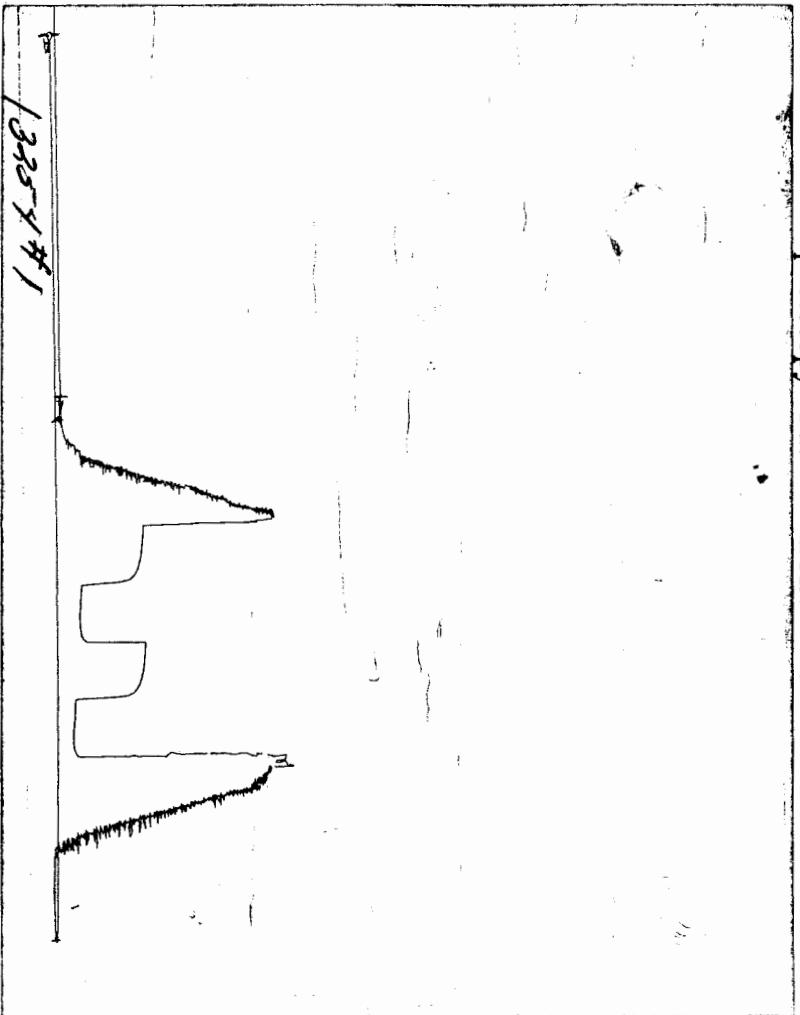
Other: _____

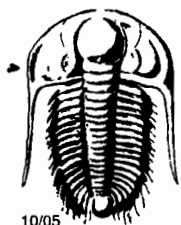
Total: _____

9.25

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27467

Test Ticket

Well Name & No. <u>Koester #1</u>	Test No. <u>2</u>	Date <u>4-14-07</u>
Company <u>Mai Oil Operations Inc</u>	Zone Tested <u>E-G</u>	<u>LKC</u>
Address _____	Elevation <u>1832</u>	KB <u>1824</u> GL
Co. Rep / Geo. <u>K.T. Noah</u>	Rig <u>Southwind #3</u>	
Location: Sec. <u>36</u> Twp. <u>11</u> Rge. <u>15</u>	Co. <u>Russell</u>	State <u>Ks</u>
Comment: _____	Release date / time: _____	

Interval Tested <u>3074</u> ————— <u>3114</u>	Initial Str Wt./Lbs. <u>49,000</u>	Unseated Str Wt./Lbs. <u>49,000</u>
Anchor Length <u>40'</u>	Wt. Set Lbs. <u>29,000</u>	Wt. Pulled Loose/Lbs. <u>59,000</u>
Top Packer Depth <u>3069</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3074</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3114</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.1</u> LCM _____ Vis. <u>58</u> WL <u>2.6</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3074</u>
Blow Description <u>I.F. Weak steady surface blow</u>		

F.F. Weak steady 1/8" blow

Recovery - Total Feet <u>15</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>1.5</u>
Rec. <u>15</u>	Feet of <u>OCM</u>	%gas <u>20</u>	%oil _____ %water <u>80</u> %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 <u>89</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____ *API _____
RW _____ @ _____	*F _____	Chlorides _____ ppm Recovery _____	Chlorides <u>4200</u> ppm System _____

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1511</u>	PSI	Recorder No. <u>6741</u>	Test <u>1100</u>	
(B) First Initial Flow Pressure	<u>11</u>	PSI	(depth) <u>3077</u>	Jars _____	
(C) First Final Flow Pressure	<u>14</u>	PSI	Recorder No. <u>13254</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>80</u>	PSI	(depth) <u>3109</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>9</u>	PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>14</u>	PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>47</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1459</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____	
			Final Flow <u>30</u>	Ruined Packer _____	
			Final Shut-In <u>30</u>	Mileage <u>106 RT 132.5</u>	
			T-On Location <u>19'15"</u>	Sub Total: <u>1232.5</u>	
			T-Started <u>19:40</u>	Std. By _____	
			T-Open <u>20:50</u>	Acc. Chg: _____	
			T-Pulled <u>22:50</u>	Other: _____	
			T-Out <u>00:48</u>	Total: _____	

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Approved By _____

Our Representative Don Bangle

5.5