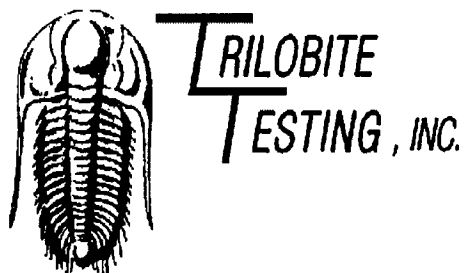


15-009-24765

5-16s-11w



DRILL STEM TEST REPORT

Prepared For: **MIA Oil Oper. Inc**

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

5-16-11 Barton,Ks

Thill #1

Start Date: 2003.08.28 @ 14:44:02

End Date: 2003.08.28 @ 18:25:46

Job Ticket #: 17663 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

MIA Oil Oper. Inc

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

Thill #1

5-16-11 Barton, Ks

Job Ticket: 17663

DST#: 1

Test Start: 2003.08.28 @ 14:44:02

GENERAL INFORMATION:

Formation: **toronto**

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

Time Tool Opened: 16:01:46

Time Test Ended: 18:25:46

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **2771.00 ft (KB) To 2801.00 ft (KB) (TVD)**

Total Depth: **2801.00 ft (KB) (TVD)**

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

Reference Elevations: **1798.00 ft (KB)**

1793.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3017 **Inside**

Press@RunDepth: **22.91 psig @ 2772.00 ft (KB)**

Start Date: **2003.08.28**

End Date:

2003.08.28

Start Time: **14:44:02**

End Time:

18:25:46

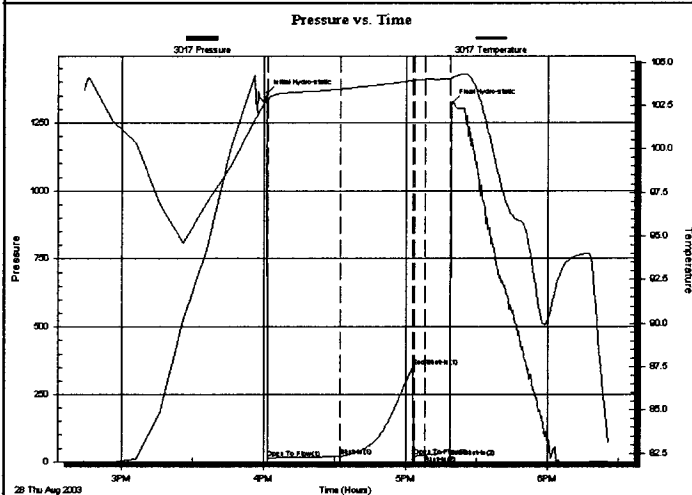
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2003.08.28 @ 16:01:31**

Time Off Btm: **2003.08.28 @ 17:19:31**

TEST COMMENT: Weak blow died in 5 min.
No return
No blow ,flush tool after 5 min. good surge , no blow
Pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1359.83	102.79	Initial Hydro-static
1	12.30	102.71	Open To Flow (1)
31	19.75	103.46	Shut-In(1)
62	353.06	103.95	End Shut-In(1)
62	22.01	103.96	Open To Flow (2)
67	22.91	103.99	Shut-In(2)
78	47.84	104.06	End Shut-In(2)
78	1323.54	104.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

MIA Oil Oper. Inc

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

Thill #1

5-16-11 Barton, Ks

Job Ticket: 17663

DST#: 1

Test Start: 2003.08.28 @ 14:44:02

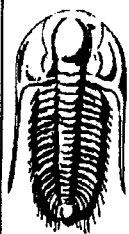
Tool Information

Drill Pipe:	Length: 2630.00 ft	Diameter: 3.80 inches	Volume: 36.89 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:	30000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	37.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	2771.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2752.00	
S.I. Tool	5.00			2757.00	
HMV	5.00			2762.00	
Packer	5.00			2767.00	20.00 Bottom Of Top Packer
Packer	4.00			2771.00	
Stubb	1.00			2772.00	
Recorder	0.00	3017	Inside	2772.00	
Perforations	24.00			2796.00	
Recorder	0.00	11058	Outside	2796.00	
Bullnose	5.00			2801.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

MIA Oil Oper. Inc

Thill #1

PO Box 33
Russell, KS 67665

5-16-11 Barton, Ks

Job Ticket: 17663

DST#: 1

ATTN: MIA Oil Oper. Inc

Test Start: 2003.08.28 @ 14:44:02

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:

7000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

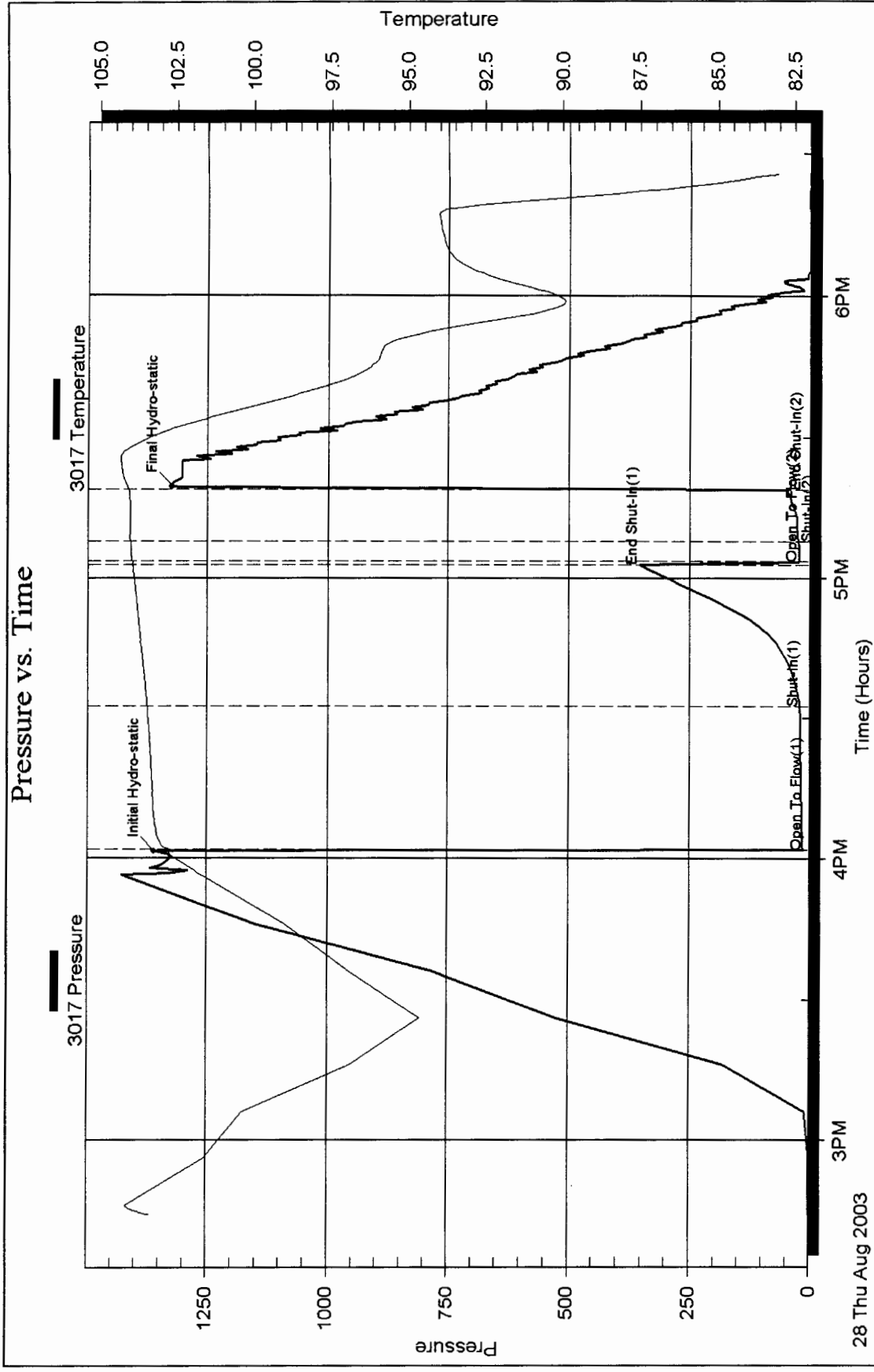
Serial #: 3017

Inside

MA Oil Oper. Inc

5-16-11 Barton, Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **MIA Oil Oper. Inc**

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

5-16-11 Barton,Ks

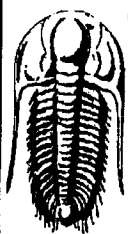
Thill #1

Start Date: 2003.08.29 @ 06:30:09

End Date: 2003.08.29 @ 12:04:08

Job Ticket #: 17664 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

MIA Oil Oper. Inc

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

Thill #1

5-16-11 Barton, Ks

Job Ticket: 17664

DST#: 2

Test Start: 2003.08.29 @ 06:30:09

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:43:53

Time Test Ended: 12:04:08

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: 2928.00 ft (KB) To 2981.00 ft (KB) (TVD)

Total Depth: 2981.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1798.00 ft (KB)

1793.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3017

Inside

Press@RunDepth: 39.11 psig @ 2929.00 ft (KB)

Start Date: 2003.08.29

End Date:

2003.08.29

Start Time: 06:30:09

End Time:

12:04:08

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.08.29 @ 07:42:23

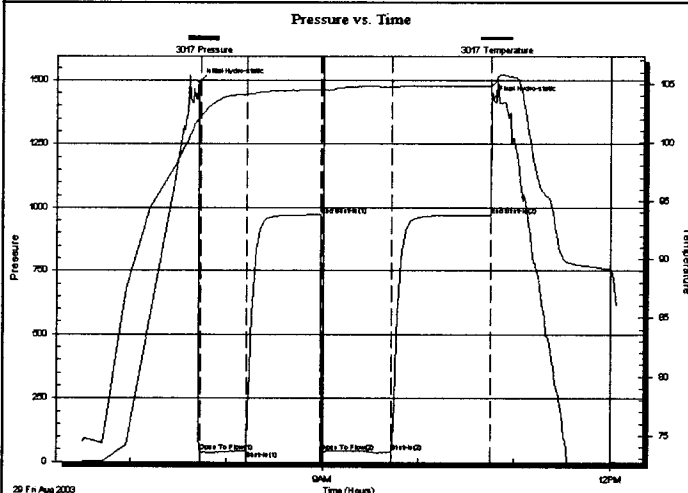
Time Off Btm: 2003.08.29 @ 10:45:53

TEST COMMENT: B.O.B. @ open , gas to surface in 8 min

No return

Gauging gas @ open

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1492.11	102.07	Initial Hydro-static
2	40.59	102.32	Open To Flow (1)
31	43.92	104.13	Shut-In (1)
76	971.32	104.53	End Shut-In (1)
77	42.24	104.53	Open To Flow (2)
121	39.11	104.75	Shut-In (2)
183	971.06	104.86	End Shut-In (2)
184	1425.52	104.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GM 15% Gas 85% Mud	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.00	6.89
Last Gas Rate	0.13	7.00	7.46
Max. Gas Rate	0.13	11.00	8.86



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

MIA Oil Oper. Inc

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

Thill #1

5-16-11 Barton, Ks

Job Ticket: 17664

DST#: 2

Test Start: 2003.08.29 @ 06:30:09

Tool Information

Drill Pipe:	Length: 2825.00 ft	Diameter: 3.80 inches	Volume: 39.63 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:	30000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	66000.00 lb
			Total Volume: 40.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	2928.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2909.00	
S.I. Tool	5.00			2914.00	
HMV	5.00			2919.00	
Packer	5.00			2924.00	20.00 Bottom Of Top Packer
Packer	4.00			2928.00	
Stubb	1.00			2929.00	
Recorder	0.00	3017	Inside	2929.00	
Perforations	14.00			2943.00	
C.O. Sub	1.00			2944.00	
drillpipe	31.00			2975.00	
C.O. Sub	1.00			2976.00	
Recorder	0.00	11058	Outside	2976.00	
Bullnose	5.00			2981.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

MIA Oil Oper. Inc

Thill #1

PO Box 33
Russell, KS 67665

5-16-11 Barton, Ks

Job Ticket: 17664

DST#: 2

ATTN: MIA Oil Oper. Inc

Test Start: 2003.08.29 @ 06:30:09

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:

7000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GM 15%Gas 85%Mud	0.443

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

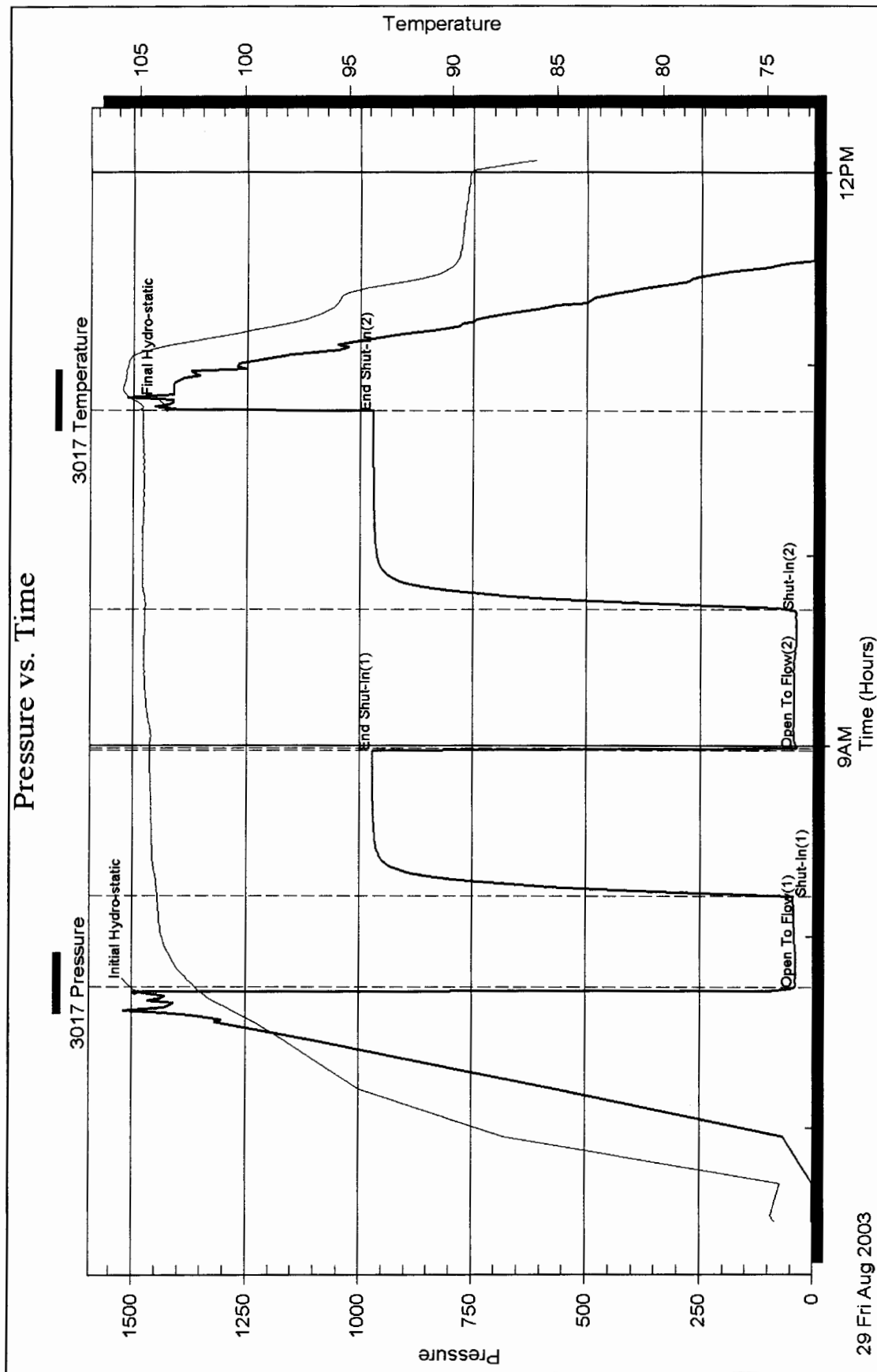
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





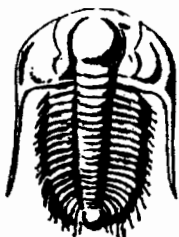
DRILL STEM TEST REPORT

Prepared for

Mai Oil Operations
PO Box 33
Russell, Ks 67665

Thill #1
5-16S-11W
Barton Co Kansas

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
PO Box 33
Russell, Ks 67665

Well name#:	Thill #1	Date:	8/30/2003
Location#:	5-16S-11W Barton Co Kansas	Ticket #:	17069
		DST#	3

General Informaion:

Formation:	LKC "G"	Test Type:	Conventional	BHT:	106
Interval:	3010-3038	Tester:	Darren Amerine	OIL API:	
Total Depth:	3038	Elevation:	1798 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		1793 ft(CF)		

Start Date:	8/30/2003	Tool Weight:	2100	Mud Type:	Chemical
Start Time:	0:55:00	Weight Set on Packers:	20000	Mud Weight:	8.9
Time tool opened:	2:10:00	Weight to Pull Loose:	65000	Viscosity:	57
Time Off Btm:	5:10:00	Initial String Weight:	55000	Water Loss:	8.8
End Date:	9/1/03	Final String Weight:	57000	Resistivity:	0.08
End Time:	6:30:00	Drill Pipe Length:	2854.37	Salinity:	7000
		Drill Collar Length:	144.63		
		Wt. Pipe Length:			

Test Comment:

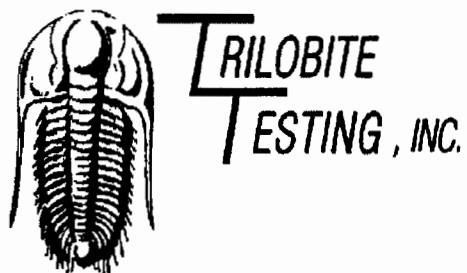
IF: Strong blow BOB in 3 minutes
ISI: Bled down for 10 minutes. Built back to 4 1/2" in H2O
FF: Strong blow BOB in 1 1/2 minutes.
FSI: Bled down for 20 minutes. Builds back

Recovery

Length(ft): 144 SG&MCW
228 HG & OCWM 50%G 16%O 19%W 15%M
20 G&OCM 20%G 30%O 50%M
2607' GIP

Gas Volume Report

Recorder #:	10991	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)		PSIG	size	
Initial Hydro-static:	1597				
Open to Flow (1):	106 30				
Shut-in (1):	128 45				
End Shut-in (1):	618				
Open to Flow (2):	138 45				
Shut-in (2):	192 60				
End Shut-in (2):	607				
Final Hydro-static:	1555				



DRILL STEM TEST REPORT

Prepared For: **MIA Oil Oper. Inc**

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

5-16-11 Barton,Ks

Thill #1

Start Date: 2003.08.28 @ 14:44:02

End Date:

Job Ticket #: 17070

DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

MIA Oil Oper. Inc
PO Box 33
Russell, KS 67665
ATTN: MIA Oil Oper. Inc

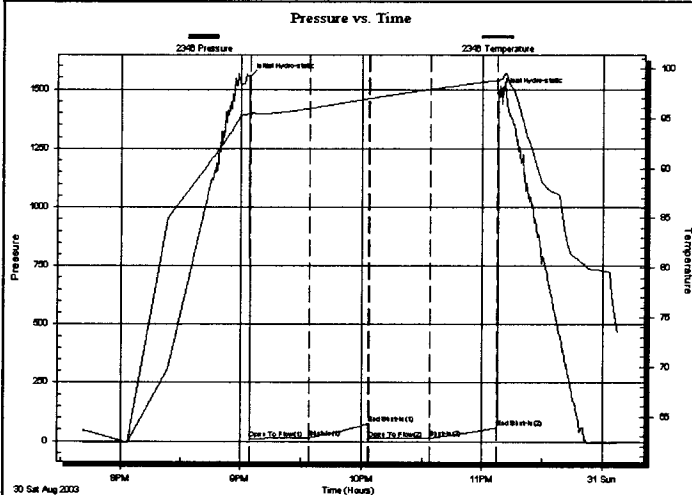
Thill #1
5-16-11 Barton, Ks
Job Ticket: 17070 **DST#: 4**
Test Start: 2003.08.28 @ 14:44:02

GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: ft (KB) To ft (KB) (TVD)
Total Depth: 2801.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 25
Reference Elevations: 1798.00 ft (KB)
1793.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 2346 Inside
Press@RunDepth: 58.52 psig @ 171.00 ft (KB)
Start Date: 2003.08.30 End Date: 2003.08.31
Start Time: 19:41:06 End Time: 00:07:19
Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2003.08.30 @ 21:04:19
Time Off Btm: 2003.08.30 @ 23:07:49

TEST COMMENT: Weak surface blow built to 1/4" in H2O bucket.
No blow back
Weak surface blow built to 1/4" in H2O bucket
No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.15	95.45	Initial Hydro-static
1	11.09	95.09	Open To Flow (1)
30	15.54	95.98	Shut-In(1)
60	75.04	96.98	End Shut-In(1)
60	11.52	97.00	Open To Flow (2)
90	16.26	97.90	Shut-In(2)
123	58.52	98.80	End Shut-In(2)
124	1492.63	98.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SG&OCM 10%Gas 6%Oil 84%Mud	0.05
0.00	Trace GIP	

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

MIA Oil Oper. Inc

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

Thill #1

5-16-11 Barton, Ks

Job Ticket: 17070

DST#: 4

Test Start: 2003.08.28 @ 14:44:02

Tool Information

Drill Pipe:	Length:	ft	Diameter:	3.80 inches	Volume:	- 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:	lb
Drill Collar:	Length:	150.00 ft	Diameter:	2.25 inches	Volume:	0.74 bbl	Weight to Pull Loose:	lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		ft					String Weight: Initial	lb
Depth to Top Packer:		170.00 ft					Final	lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		50.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

C.O. Sub	1.00			151.00	
S.I. Tool	5.00			156.00	
HMV	5.00			161.00	
Packer	5.00			166.00	20.00 Bottom Of Top Packer
Packer	4.00			170.00	
Stubb	1.00			171.00	
Recorder	0.00	2346	Inside	171.00	
Perforations	24.00			195.00	
Recorder	0.00	11058	Outside	195.00	
Bullnose	5.00			200.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

MIA Oil Oper. Inc

Thill #1

PO Box 33
Russell, KS 67665

5-16-11 Barton, Ks

Job Ticket: 17070

DST#: 4

ATTN: MIA Oil Oper. Inc

Test Start: 2003.08.28 @ 14:44:02

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SG&OCM 10%Gas 6%Oil 84%Mud	0.049
0.00	Trace GP	

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

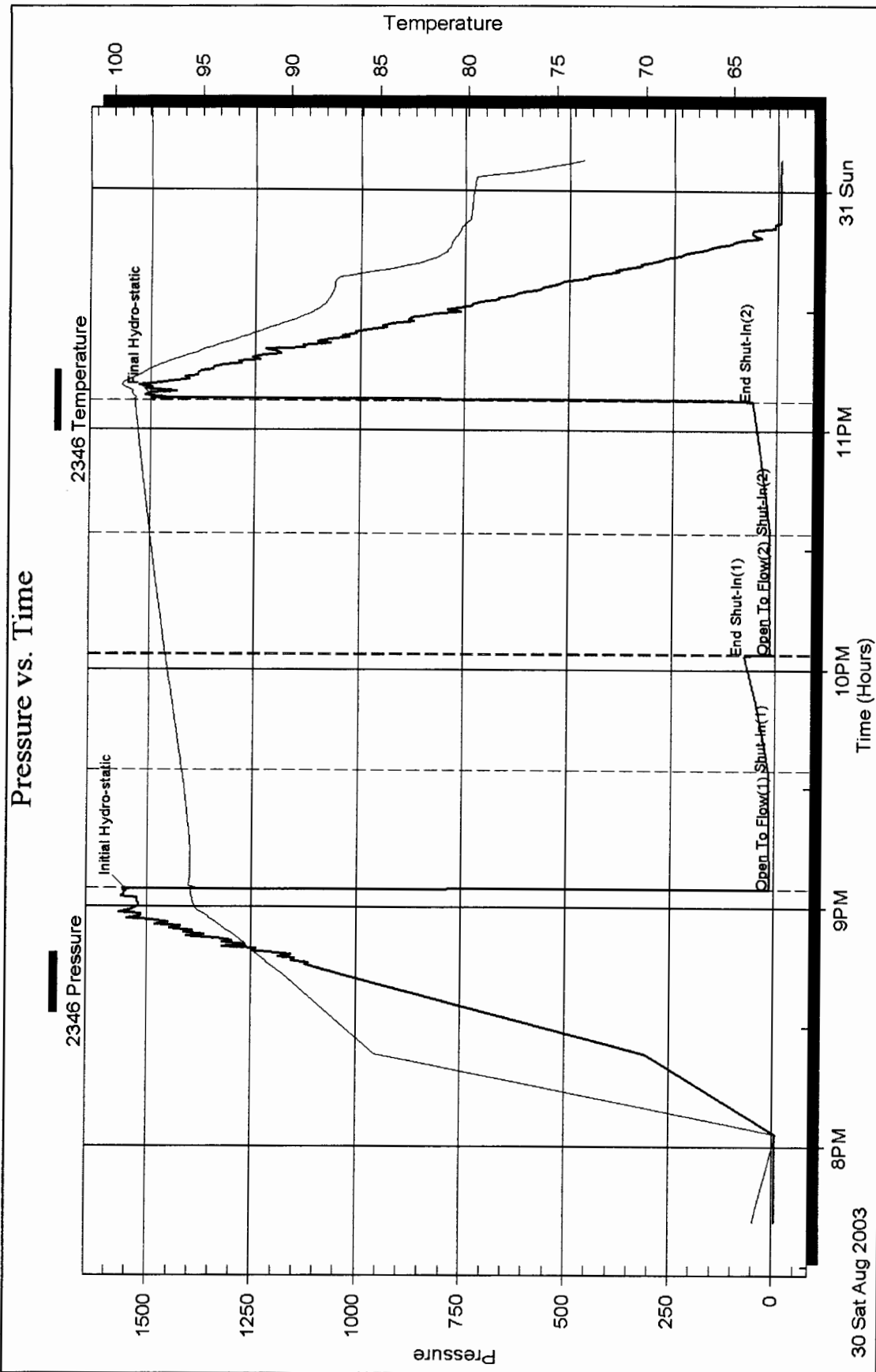
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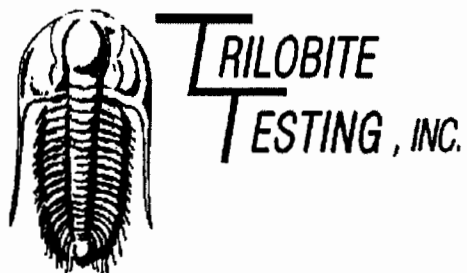
MA Oil Oper. Inc

Inside

5-16-11 Barton, Ks

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **MIA Oil Oper. Inc**

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

5-16-11 Barton,Ks

Thill #1

Start Date: 2003.08.31 @ 15:51:28

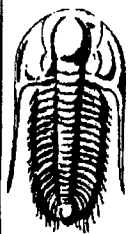
End Date: 2003.08.31 @ 22:18:11

Job Ticket #: 17071 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

MIA Oil Oper. Inc

PO Box 33
Russell, KS 67665

ATTN: MIA Oil Oper. Inc

Thill #1

5-16-11 Barton, Ks

Job Ticket: 17071

DST #: 5

Test Start: 2003.08.31 @ 15:51:28

GENERAL INFORMATION:

Formation: **Arbuckel**

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

Time Tool Opened: 17:08:26

Time Test Ended: 22:18:11

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **3271.00 ft (KB) To 3277.00 ft (KB) (TVD)**

Total Depth: **3277.00 ft (KB) (TVD)**

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

Reference Elevations: **1798.00 ft (KB)**

1793.00 ft (CF)

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

Serial #: 2346

Inside

Press@RunDepth: **364.90 psig @ 3272.00 ft (KB)**

Start Date: **2003.08.31**

End Date:

2003.08.31

Start Time: **15:51:28**

End Time:

22:18:11

Capacity: **7000.00 psig**

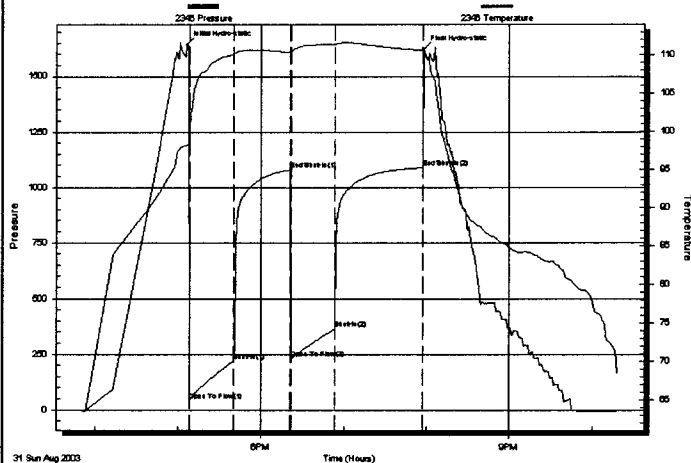
Last Calib.: **2003.08.31**

Time On Btm: **2003.08.31 @ 17:06:41**

Time Off Btm: **2003.08.31 @ 19:57:26**

TEST COMMENT: IF: Fair blow built to b.o.b in 4 mins.
IS: Bled down n for 10 mins. no blow back.
FF: Strong blow b.o.b in 90 sec.
FS: Bled down n for 5 mins. no blow back

Pressure vs. Time



PRESSURE SUMMARY

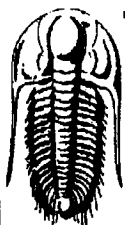
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.99	98.30	Initial Hydro-static
2	41.54	99.19	Open To Flow (1)
34	220.42	110.11	Shut-In (1)
75	1079.35	110.37	End Shut-In (1)
76	229.49	110.44	Open To Flow (2)
107	364.90	111.47	Shut-In (2)
171	1087.90	110.62	End Shut-In (2)
171	1624.29	110.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1038.00	50 - Oil	13.24

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

MIA Oil Oper. Inc

Thill #1

PO Box 33
Russell, KS 67665

5-16-11 Barton, Ks

Job Ticket: 17071

DST#: 5

ATTN: MIA Oil Oper. Inc

Test Start: 2003.08.31 @ 15:51:28

Tool Information

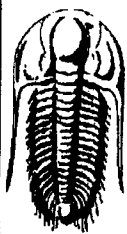
Drill Pipe:	Length: 3137.37 ft	Diameter: 3.80 inches	Volume: 44.01 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 144.63 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	44.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3271.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	27.00 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			3251.00	
Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Packer	5.00			3266.00	21.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Recorder	0.00	2346	Inside	3272.00	
Bullnose	5.00			3277.00	6.00 Bottom Packers & Anchor

Total Tool Length: 27.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MIA Oil Oper. Inc

Thill #1

PO Box 33
Russell, KS 67665

5-16-11 Barton, Ks

Job Ticket: 17071

DST#: 5

ATTN: MIA Oil Oper. Inc

Test Start: 2003.08.31 @ 15:51:28

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1038.00	50 - Oil	13.243

Total Length: 1038.00 ft

Total Volume: 13.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

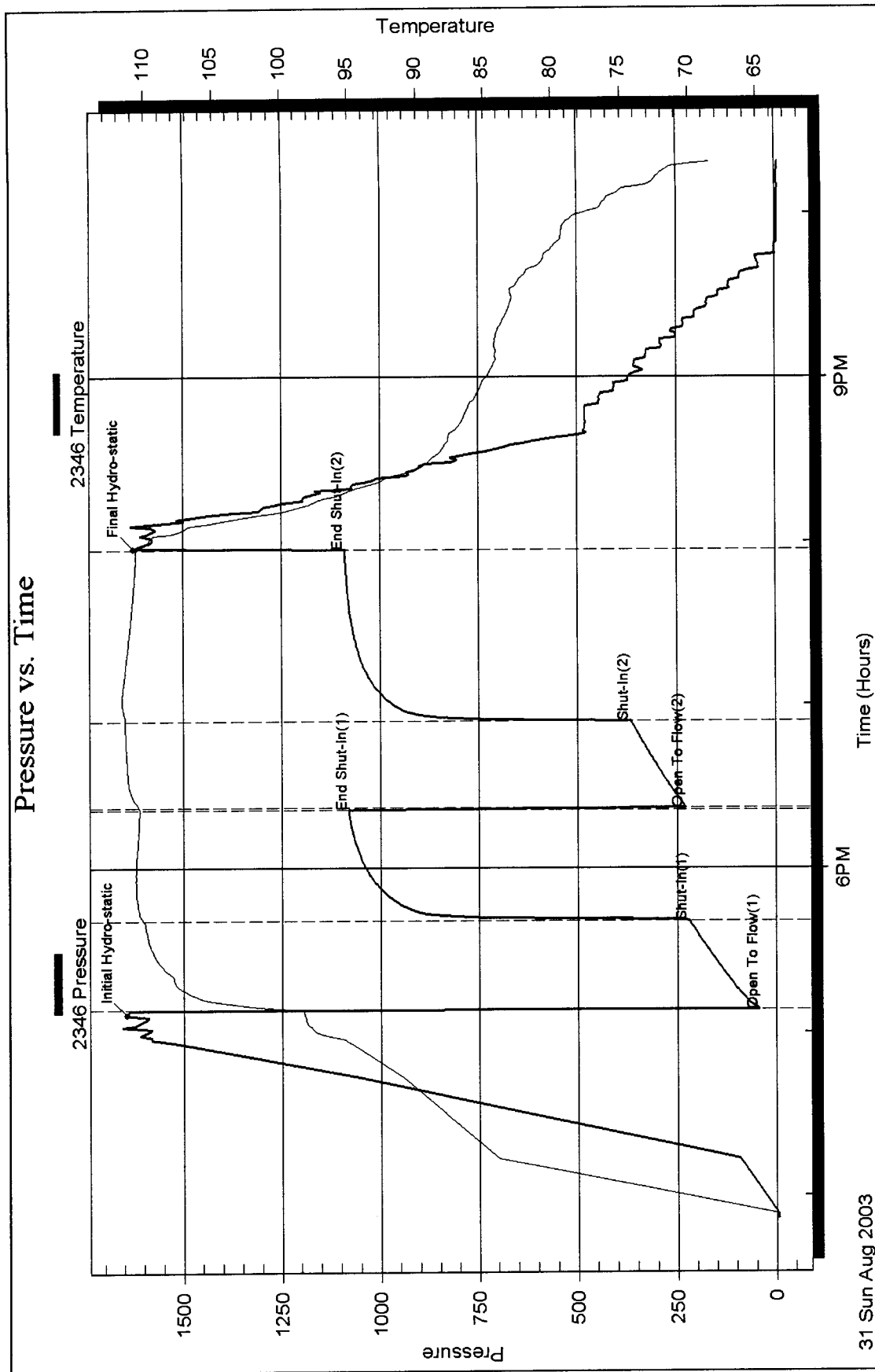
Serial #:

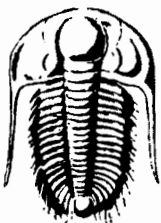
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17663

12/02

Test Ticket

Well Name & No. Thill #1 Test No. #1 Date 8-28-03
Company Mia Oil ops Inc. Zone Tested Tomato Topoka
Address P.O. Box 33 Russell, KS 67665 Elevation 1798' KB 1793' GL
Co. Rep / Geo. Jim Masgrave Cont. Murkin #16 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 5 Twp. 16 Rge. 11 Co. Barton State Ks
No. of Copies Num Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2771 2801 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 52,000
Anchor Length _____ 30 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 65,000
Top Packer Depth _____ 2766 Tool Weight 1500
Bottom Packer Depth _____ 2771 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Total Depth _____ 2801 Wt. Pipe Run _____ Drill Collar Run 150'
Mud Wt. 8.8 LCM Ti Vis. 45 WL 8.0 Drill Pipe Size 4 1/2 x H Ft. Run 2630'
Blow Description Weak blow died in 5min
No return

No blow Flush tool After 5min (good surge) No blow
pull tool
Recovery - Total Feet 10' GIP _____ Ft. in DC 10' Ft. in DP _____

Rec. 10' Feet of Mud 100% m
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
BHT 104° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 7,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1359</u> PSI	<u>3017</u>	<u>3017</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>12</u> PSI	<u>2772</u>	<u>2772</u>	<u>150</u>
(C) First Final Flow Pressure	<u>19</u> PSI	<u>11058</u>	<u>11058</u>	
(D) Initial Shut-In Pressure	<u>353</u> PSI	<u>2796'</u>	<u>2796'</u>	
(E) Second Initial Flow Pressure	<u>22</u> PSI			
(F) Second Final Flow Pressure	<u>22</u> PSI			
(G) Final Shut-In Pressure	<u>47</u> PSI			
(Q) Final Hydrostatic Mud	<u>1323</u> PSI			

Initial Opening 30
Initial Shut-In 30
Final Flow 5 Flush S
Final Shut-In _____
T-On Location 14:15 p.m.
T-Started 14:45 p.m.
T-Open 16:00 p.m.
T-Pulled 17:10 p.m.
T-Out 18:50 p.m.

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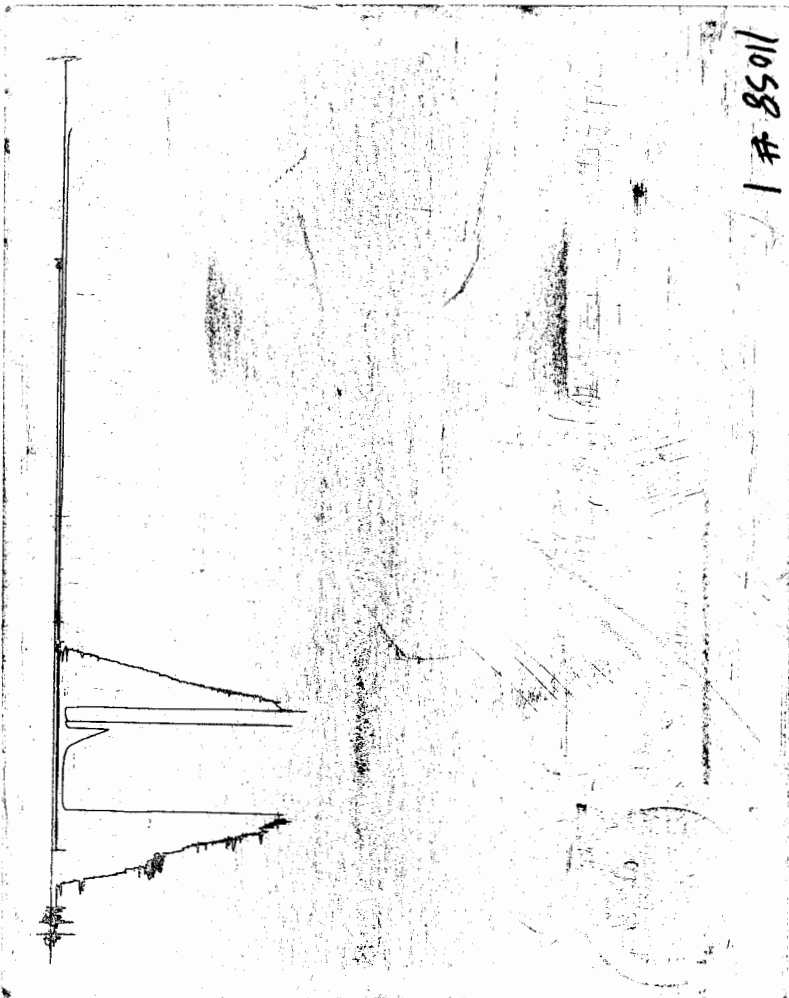
Approved By Jim Masgrave

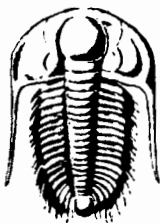
Our Representative [Signature]

Test X 700
Elec. Rec. X 150
Jars _____
Safety Jt. _____
Circ Sub X n/c
Sampler _____
Straddle _____
Ext. Packer _____
Shale Packer 35
Mileage 150
Sub Total: 935
Std. By _____
Other _____
Total: _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17664

12/02

Test Ticket

Well Name & No. <u>Trail #1</u>	Test No. <u>#2</u>	Date <u>8-29-03</u>
Company <u>Min Oil Oper Inc.</u>	Zone Tested _____	
Address <u>P.O. Box 33 Russell, KS 67665</u>	Elevation <u>1798'</u>	KB <u>1793'</u> GL _____
Co. Rep / Geo. <u>Jim Masgrove</u>	Cont. <u>Mackin #16</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>5</u>	Twp. <u>16</u>	Rge. <u>11</u> Co. <u>Barton</u> State <u>KS</u>
No. of Copies <u>Num</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>2928</u>	<u>2981</u>	Initial Str Wt./Lbs. <u>54,000</u>	Unseated Str Wt./Lbs. <u>54,000</u>
Anchor Length _____	<u>53</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth _____	<u>2923</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth _____	<u>2928</u>	Hole Size 7 7/8" ☒	Rubber Size 6 3/4" ☒
Total Depth _____	<u>2981</u>	Wt. Pipe Run _____	Drill Collar Run <u>90'</u>
Mud Wt. <u>8.8</u>	LCM <u>Ti</u>	Vis. <u>45</u>	WL <u>8.0</u>
Drill Pipe Size <u>4 1/2 X H</u> Ft. Run <u>2825</u>			

Blow Description B.O.B @ open, GAS to Surface in 8 min

No return

Gauging GAS @ open

No return

Recovery - Total Feet 90' GIP G.T.S. Ft. in DC 90' Ft. in DP _____

Rec. 90' Feet of g m 1590 g 8590 m

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 105° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 7,000 ppm System

AK-1	Alpine	
(A) Initial Hydrostatic Mud	<u>1492</u> PSI	Recorder No. <u>3017</u> Test <u>x</u> <u>700</u>
(B) First Initial Flow Pressure	<u>40</u> PSI	(depth) <u>2929</u> Elec. Rec. <u>x</u> <u>150</u>
(C) First Final Flow Pressure	<u>43</u> PSI	Recorder No. <u>11058</u> Jars _____
(D) Initial Shut-In Pressure	<u>971</u> PSI	(depth) <u>2976</u> Safety Jt. _____
(E) Second Initial Flow Pressure	<u>42</u> PSI	Recorder No. _____ Circ Sub <u>x</u> <u>n/c</u>
(F) Second Final Flow Pressure	<u>39</u> PSI	(depth) _____ Sampler _____
(G) Final Shut-In Pressure	<u>971</u> PSI	Initial Opening <u>30</u> Straddle _____
(Q) Final Hydrostatic Mud	<u>1425</u> PSI	Initial Shut-In <u>45</u> Ext. Packer _____

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Approved By Allen R. Masgrove

Our Representative Jim Masgrove

Final Flow	<u>45</u>	Shale Packer _____
Final Shut-In	<u>60</u>	Mileage <u>x</u> <u>32</u> <u>1 way</u> <u>32</u>
T-On Location	<u>06:00 A.M.</u>	Sub Total: <u>882</u>
T-Started	<u>06:30 A.M.</u>	Std. By _____
T-Open	<u>07:40 A.M.</u>	Other _____
T-Pulled	<u>10:40 A.M.</u>	Total: _____
T-Out	<u>12:15 P.M.</u>	



GAS VOLUME REPORT

WFA Oil Oper Inc.
OPERATOR

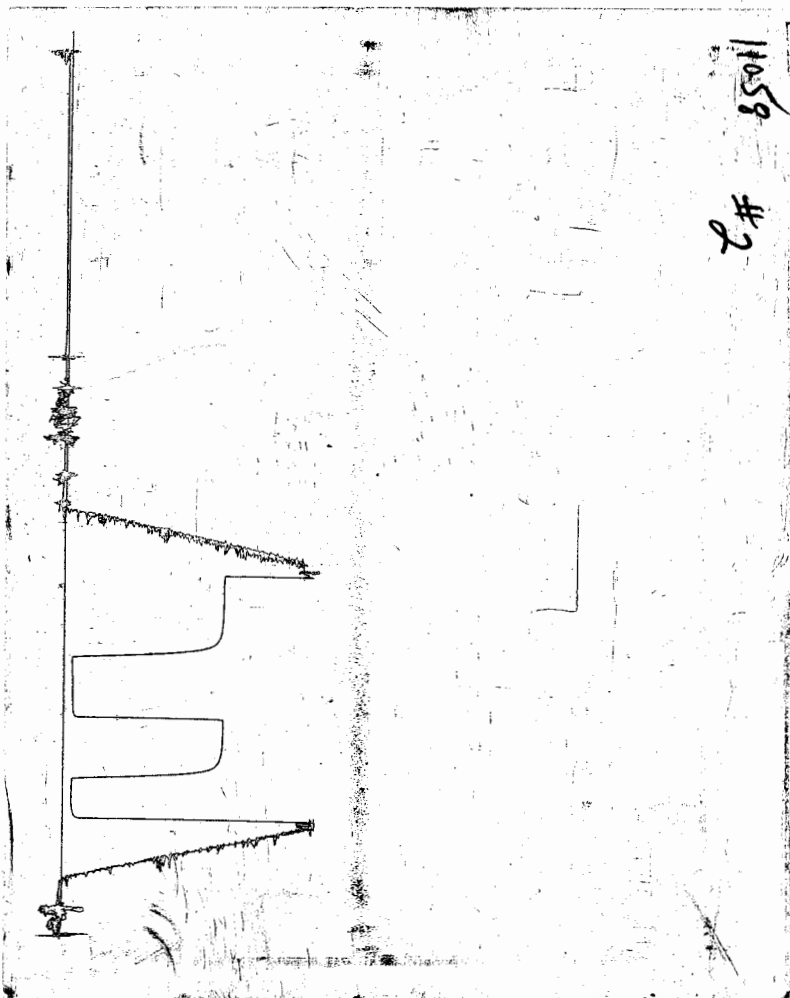
Thill #1

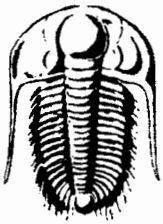
#2
DST NO.

Remarks: Gas to Surface in 8 min, Burnt Bright Orange
 Pres. gas sample sent to Caracas, Lih. 1 v.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17069

12/02

Test Ticket

Well Name & No. <u>Thill #1</u>	Test No. <u># 3</u>	Date <u>8-30-03</u>
Company <u>MAT OIL Operations, Inc.</u>	Zone Tested <u>LKC "G"</u>	
Address <u>P.O. box 33 Russell, Ks. 67665</u>	Elevation <u>1798</u>	KB <u>1793</u> GL
Co. Rep / Geo. <u>Jodd Morganstern</u>	Cont. <u>Mortin #16</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>5</u> Twp. <u>16^s</u> Rge. <u>11^w</u>	Co. <u>Barton Co.</u>	State <u>KS</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3010' - 3028'</u>	Initial Str Wt./Lbs. <u>55,000</u>	Unseated Str Wt./Lbs. <u>57,000</u>
Anchor Length <u>28'</u>	Wt. Set Lbs. <u>29,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth <u>3005</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3010</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3038</u>	Wt. Pipe Run <u>n/a</u>	Drill Collar Run <u>144.63</u>
Mud Wt. <u>8.9</u> LCM <u>0</u> Vis. <u>57</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>2854.37</u>
Blow Description <u>IF: Strong blow b.o.b in 3 mins.</u>		
<u>ISI: Bleed down for 10 mins. built back to 4 1/2" in H2O.</u>		
<u>FF: Strong blow b.o.b in 1 1/2 mins.</u>		
<u>FSI: Bleed down for 20 mins. Built back to</u>		
Recovery - Total Feet <u>392'</u>	GIP <u>2607'</u>	Ft. in DC <u>144.63</u> Ft. in DP _____
Rec. <u>20'</u>	Feet of <u>Gas 80.1 Cut Mud 2086as 3028oil 508 Mud</u>	
Rec. <u>228'</u>	Feet of <u>H600CWM 5086as 168oil 196water 158 Mud</u>	
Rec. <u>144'</u>	Feet of <u>SG8 MCW</u>	
Rec. <u>2607'</u>	Feet of <u>GIP</u>	
BHT <u>106'</u>	F Gravity _____	*API D @ _____ *F Corrected Gravity _____ *API
RW <u>.08</u> @ <u>80°</u>	F Chlorides <u>86,000</u> ppm Recovery _____	Chlorides <u>2,000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1597</u>	PSI	Recorder No.	<u>13769</u>	Test <u>✓</u> <u>150</u>
(B) First Initial Flow Pressure	<u>106</u>	PSI	(depth)	<u>3016'</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>128</u>	PSI	Recorder No.	<u>10991 *</u>	Jars _____
(D) Initial Shut-In Pressure	<u>618</u>	PSI	(depth)	<u>3035'</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>138</u>	PSI	Recorder No.		Circ Sub _____
(F) Second Final Flow Pressure	<u>192</u>	PSI	(depth)		Sampler _____
(G) Final Shut-In Pressure	<u>607</u>	PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1555</u>	PSI	Initial Shut-In	<u>75</u>	Ext. Packer _____
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			Final Shut-In	<u>60</u>	Mileage <u>85</u> <u>85</u>
			T-On Location	<u>0015</u>	Sub Total: _____
			T-Started	<u>0055</u>	Std. By <u>785</u>
			T-Open	<u>0210</u>	Other _____
			T-Pulled	<u>0520</u>	Total: _____
			T-Out	<u>0630</u>	

Approved By Allen Bango

Our Representative Darrell Ammerine

CHART PAGE

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

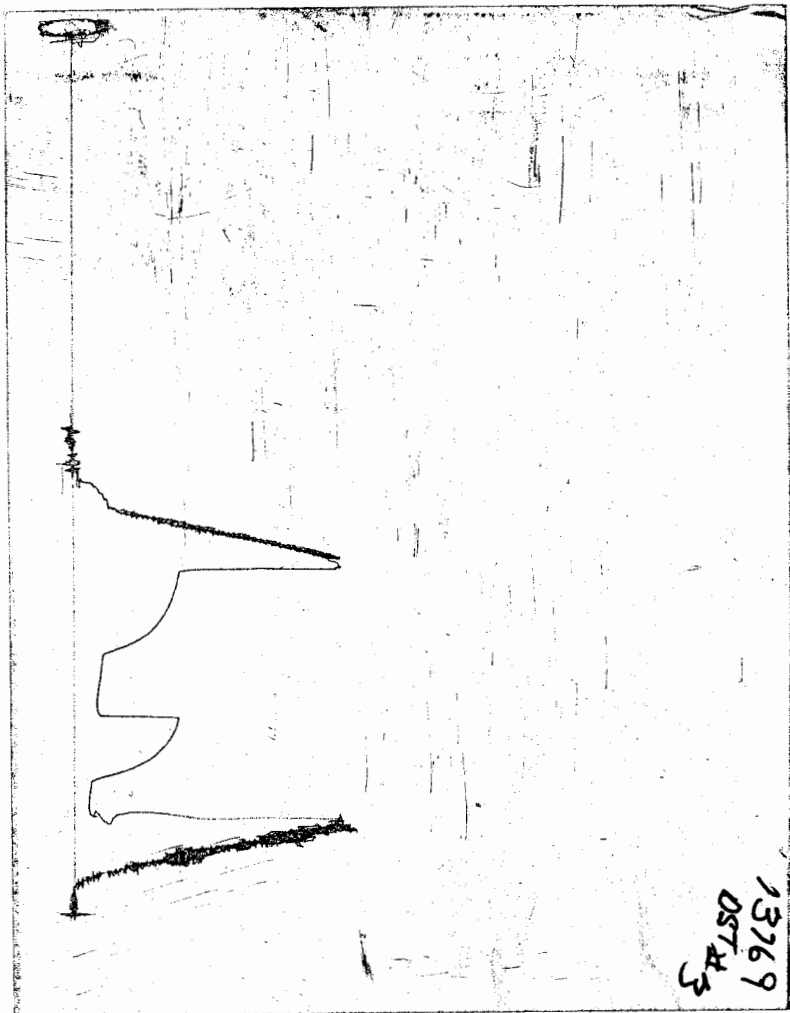
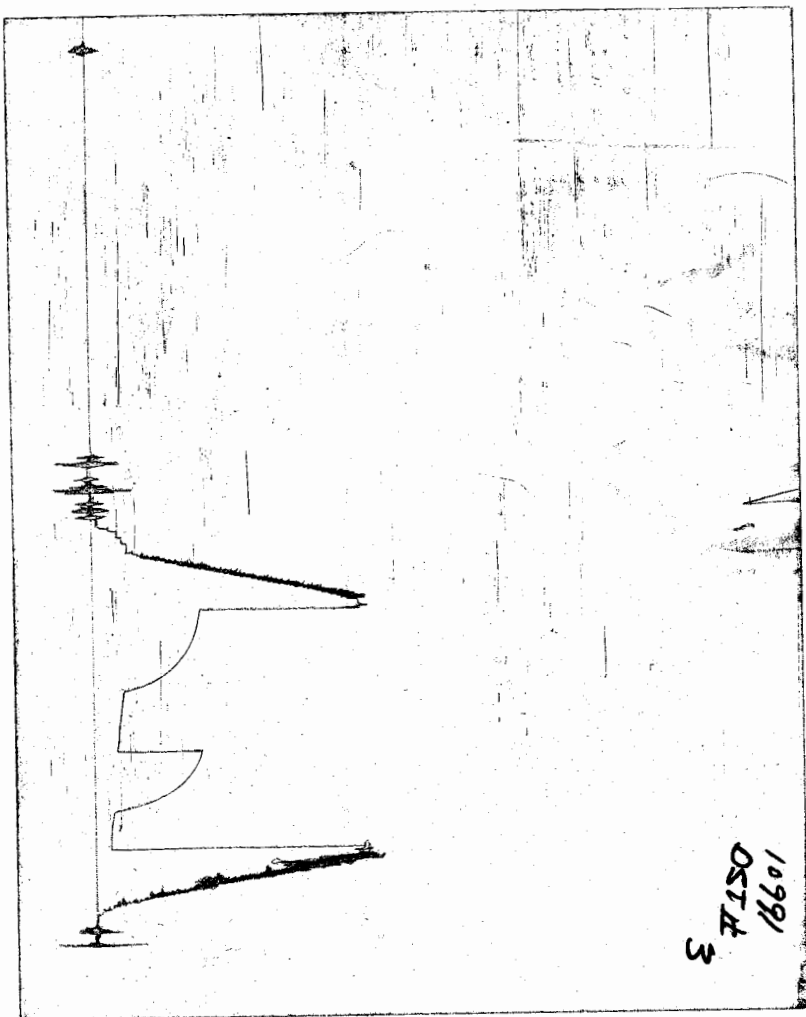
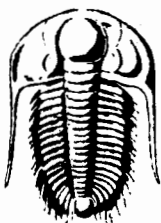


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17070

12/02

Test Ticket

Well Name & No. <u>Thill #1</u>	Test No. <u>#4</u>	Date <u>8-30-03</u>
Company <u>MAI OIL Operations, Inc</u>	Zone Tested <u>LKC (1PJ)</u>	
Address <u>P.O. box 33 Russell, KS</u>	Elevation <u>1798</u> KB <u>1793</u> GL	
Co. Rep / Geo. <u>Todd Morganstern</u> Cont. <u>Murfin #16</u>	Est. Ft. of Pay	Por. %
Location: Sec. <u>5</u> Twp. <u>16 S</u> Rge. <u>11 W</u>	Co. <u>Barton, Co.</u>	State <u>KS</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested <u>3112 - 3153'</u>	Initial Str Wt./Lbs. <u>58,000</u>	Unseated Str Wt./Lbs. <u>58,000</u>
Anchor Length <u>71'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth <u>3107'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3112'</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3153'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>144.63</u>
Mud Wt. <u>8.9</u> LCM <u>Trace</u> Vis. <u>50</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>2928.37</u>
Blow Description <u>IF: Weak surface blow built to 1/4" in #120 bucket.</u>		
<u>ISI: No blow back.</u>		
<u>FF: Weak surface blow built to 1/4" in #120 bucket.</u>		
<u>FST: No blow back.</u>		
Recovery - Total Feet <u>10'</u>	GIP <u>Trace</u>	Ft. in DC <u>10'</u> Ft. in DP <u>N/A</u>
Rec. <u>10'</u>	Feet of <u>SGFCM 1st 695 6801/ 842 mud</u>	
Rec. <u>Trace</u>	Feet of <u>GIP</u>	
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	
BHT <u>98°</u>	*F Gravity _____	*API D @ _____
RW _____ @ _____	*F Chlorides _____ ppm Recovery _____	*F Corrected Gravity _____
	Chlorides <u>5,000</u> ppm System	

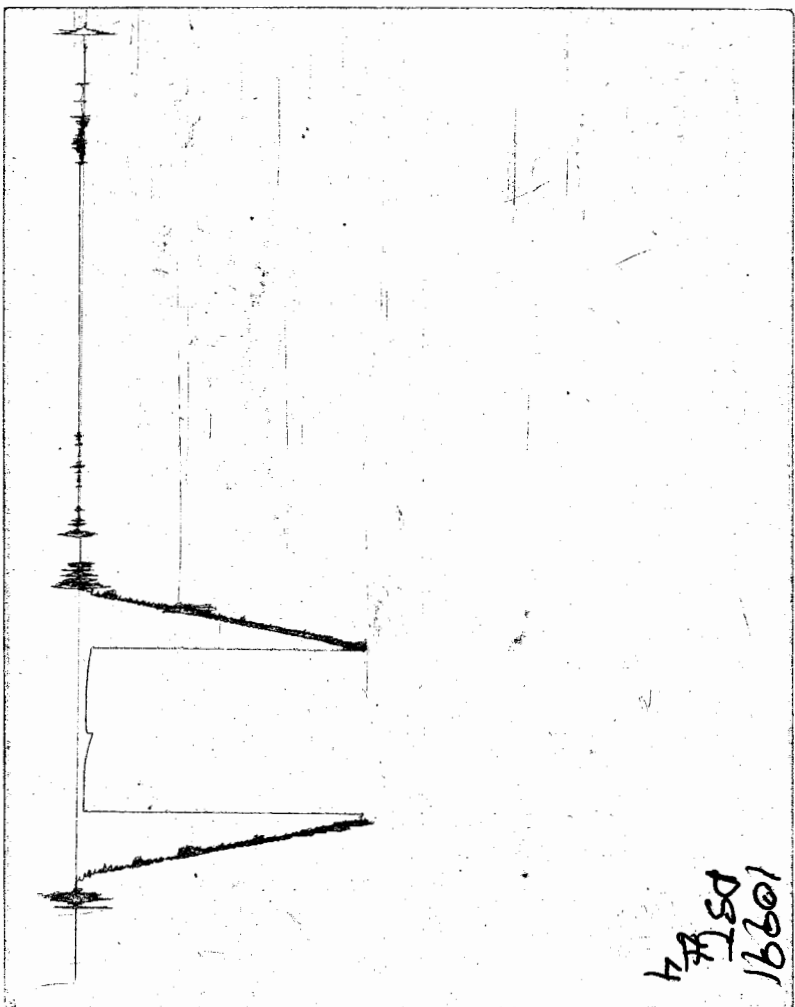
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1553</u>	PSI	<u>2346</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>12</u>	PSI	(depth) <u>3119'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>15</u>	PSI	Recorder No. <u>10991</u>	Jars _____
(D) Initial Shut-In Pressure	<u>75</u>	PSI	(depth) <u>3149'</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>12</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>17</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>58</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1529</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
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			Final Shut-In <u>30</u>	Mileage <u>32</u> <u>32</u>
			T-On Location <u>1930</u>	Sub Total: <u>882</u>
			T-Started <u>1941</u>	Std. By _____
			T-Open <u>2310</u>	Other _____
			T-Pulled <u>2310</u>	Total: _____
			T-Out <u>0007</u>	

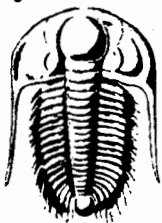
Approved By Todd Morganstern

Our Representative Darren J. Amerino

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17071

12/02

Test Ticket

Well Name & No. <u>Thill #1</u>	Test No. <u>#5</u>	Date <u>8-31-03</u>
Company <u>Mat Oil Operations, Inc.</u>	Zone Tested <u>Arb.</u>	
Address <u>P.O. box 33 Russell, KS 67665</u>	Elevation <u>1798</u> KB <u>1793</u>	GL
Co. Rep / Geo. <u>Todd Morganstern</u>	Cont. <u>Murfin #16</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>5</u> Twp. <u>16^s</u> Rge. <u>11 W</u>	Co. <u>Barton, Co.</u>	State <u>KS</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3271' - 3277</u>	Initial Str Wt./Lbs. <u>5000</u>	Unseated Str Wt./Lbs. <u>6100</u>
Anchor Length <u>6'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>7000</u>
Top Packer Depth <u>3266</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3271</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3277</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>144.63</u>
Mud Wt. <u>9.2</u> LCM <u>Trace</u> Vis. <u>57</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>3137.37</u>
Blow Description <u>IF: Fair blow built to b.o.b in 4 mins.</u>		

ISI: Bled down for 10 mins. No blow back.

FF: Strong blow, b.o.b in 1 1/2 mins.

FSI: Bled down for 5 mins. No blow back

Recovery - Total Feet 1030 GIP _____ Ft. in DC 144 Ft. in DP 886'

Rec. 1030 Feet of Shale Oil

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 111 °F Gravity _____ °API D @ _____ °F Corrected Gravity 38 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud	Alpine <u>1643</u> PSI	Recorder No. <u>2346</u>	Test <u>✓</u> <u>700</u>
(B) First Initial Flow Pressure	<u>42</u> PSI	(depth) <u>3277'</u>	Elec. Rec. <u>✓</u> <u>150</u>
(C) First Final Flow Pressure	<u>220</u> PSI	Recorder No. _____	Jars _____
(D) Initial Shut-In Pressure	<u>1079</u> PSI	(depth) _____	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>229</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>365</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1088</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1624</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer _____
		Final Shut-In <u>60</u>	Mileage <u>32</u>

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Approved By Todd Morganstern

Our Representative Daren J. Lamerio

T-Started 1551

T-Open 1714

T-Pulled 1959

T-Out 2218

Sub Total: 882

Std. By _____

Other _____

Total: _____