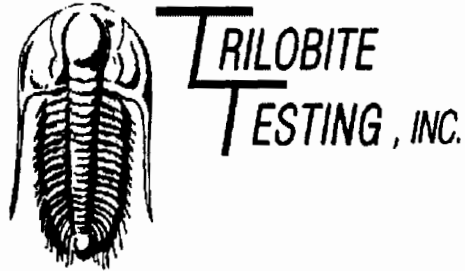


15-007-22791

2-30s-14w



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.01.24 @ 18:02:18

End Date: 2004.01.25 @ 00:49:18

Job Ticket #: 18710 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.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18710

DST#: 1

ATTN: James Musgrove

Test Start: 2004.01.24 @ 18:02:18

GENERAL INFORMATION:

Formation: **Indian Cave**

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

Time Tool Opened: 19:56:33

Time Test Ended: 00:49:18

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **2936.00 ft (KB) To 3004.00 ft (KB) (TVD)**

Reference Elevations: **1960.00 ft (KB)**

Total Depth: **3004.00 ft (KB) (TVD)**

1951.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

KB to GR/CF: **9.00 ft**

Serial #: 6755 **Inside**

Press@RunDepth: **187.55 psig @ 2937.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.01.24**

End Date:

2004.01.25

Last Calib.: **2004.01.25**

Start Time: **18:02:28**

End Time:

00:49:18

Time On Btm: **2004.01.24 @ 19:53:03**

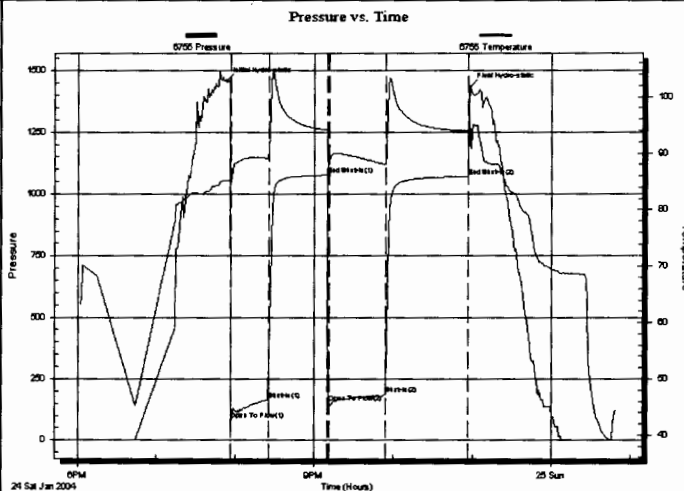
Time Off Btm: **2004.01.24 @ 22:58:03**

TEST COMMENT: **IF: Strong blow . GTS in 6.5 mins. (see gas volume report)**

IS: No blow .

FF: Strong blow . (see gas volume report)

FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.90	85.16	Initial Hydro-static
4	84.21	85.17	Open To Flow (1)
32	164.08	89.09	Shut-In(1)
77	1077.42	94.11	End Shut-In(1)
79	154.64	88.76	Open To Flow (2)
122	187.55	87.99	Shut-In(2)
184	1069.65	93.91	End Shut-In(2)
185	1434.06	91.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	WM 14%w 86% m	2.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	15.00	198.32
Last Gas Rate	0.50	51.00	441.17
Max. Gas Rate	0.50	51.00	441.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18710

DST#: 1

ATTN: James Musgrove

Test Start: 2004.01.24 @ 18:02:18

Tool Information

Drill Pipe:	Length: 2682.00 ft	Diameter: 3.80 inches	Volume: 37.62 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 38.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	2936.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 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			2917.00	
Shut In Tool	5.00			2922.00	
Hydraulic tool	5.00			2927.00	
Packer	4.00			2931.00	20.00 Bottom Of Top Packer
Packer	5.00			2936.00	
Stubb	1.00			2937.00	
Recorder	0.00	6755	Inside	2937.00	
Perforations	5.00			2942.00	
Change Over Sub	1.00			2943.00	
Blank Spacing	31.00			2974.00	
Change Over Sub	1.00			2975.00	
Perforations	24.00			2999.00	
Recorder	0.00	13222	Outside	2999.00	
Bullnose	5.00			3004.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18710

DST#: 1

ATTN: James Musgrove

Test Start: 2004.01.24 @ 18:02:18

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	60000 ppm
Viscosity: 32.00 sec/qt	Cushion Volume: bbl		
Water Loss: 27.85 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 56000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	WM 14%w 86%m	2.443

Total Length: 330.00 ft Total Volume: 2.443 bbl

Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: gp-1

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18710

DST#: 1

ATTN: James Musgrove

Test Start: 2004.01.24 @ 18:02:18

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.50	15.00	198.32
1	20	0.50	33.00	319.75
1	30	0.50	38.00	353.47
2	10	0.50	47.00	414.19
2	20	0.50	47.00	414.19
2	30	0.50	49.00	427.68
2	45	0.50	51.00	441.17

Serial #: 6755

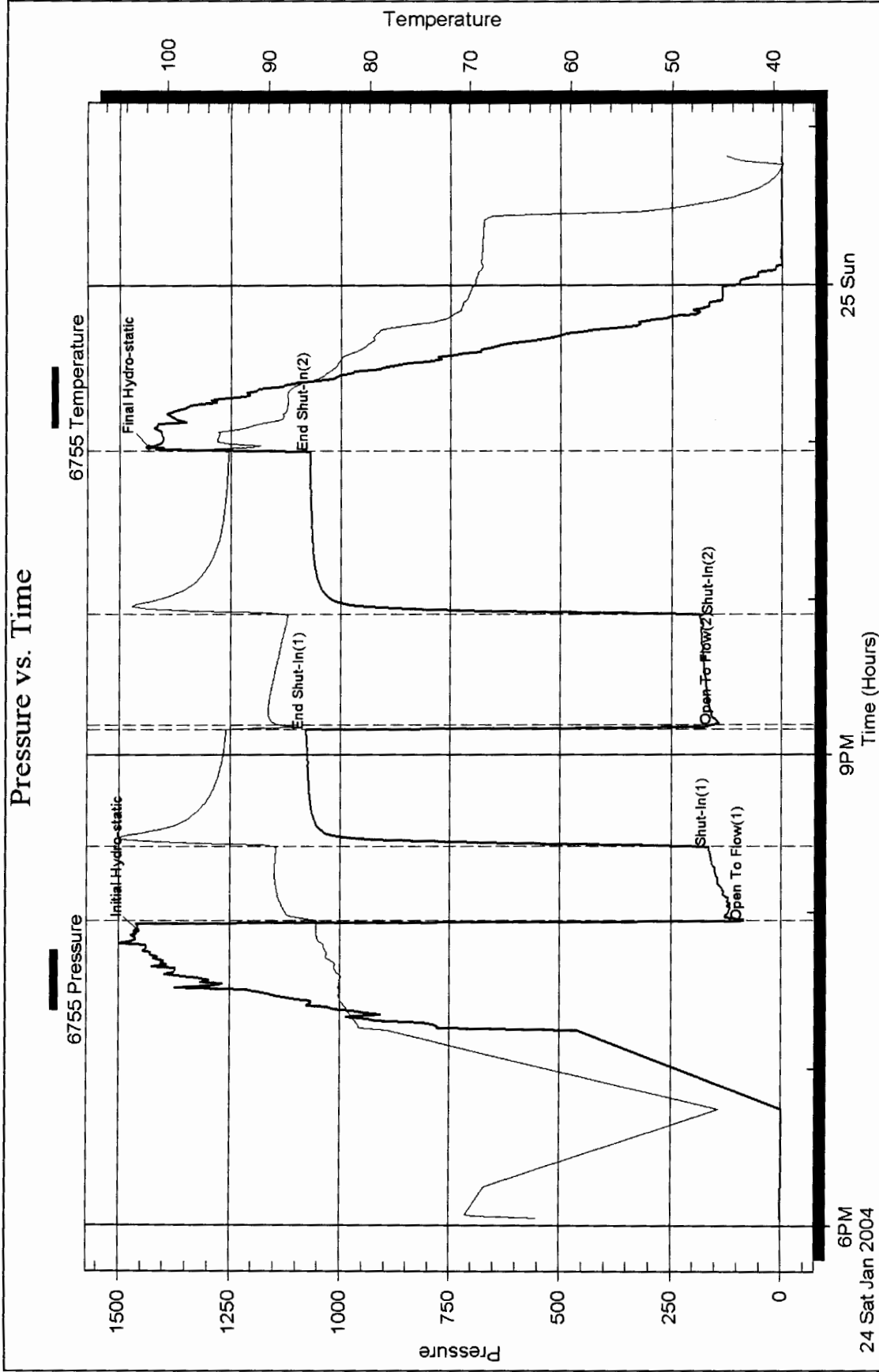
Inside

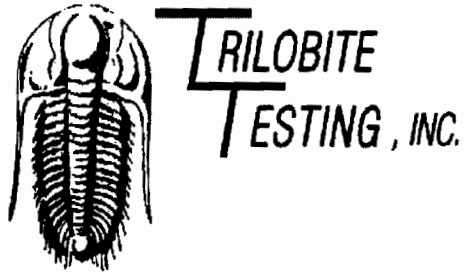
Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.01.25 @ 08:43:53

End Date: 2004.01.25 @ 15:47:23

Job Ticket #: 18711 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.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18711

DST#: 2

ATTN: James Musgrove

Test Start: 2004.01.25 @ 08:43:53

GENERAL INFORMATION:

Formation: **Langdon**

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

Time Tool Opened: 10:48:38

Time Test Ended: 15:47:23

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **3028.00 ft (KB) To 3075.00 ft (KB) (TVD)**

Reference Elevations: **1960.00 ft (KB)**

Total Depth: **3075.00 ft (KB) (TVD)**

1951.00 ft (CF)

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

KB to GR/CF: 9.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: **815.74 psig @ 3029.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.01.25**

End Date: **2004.01.25**

Last Calib.: **2004.01.25**

Start Time: **08:44:03**

End Time: **15:47:23**

Time On Btm: **2004.01.25 @ 10:47:38**

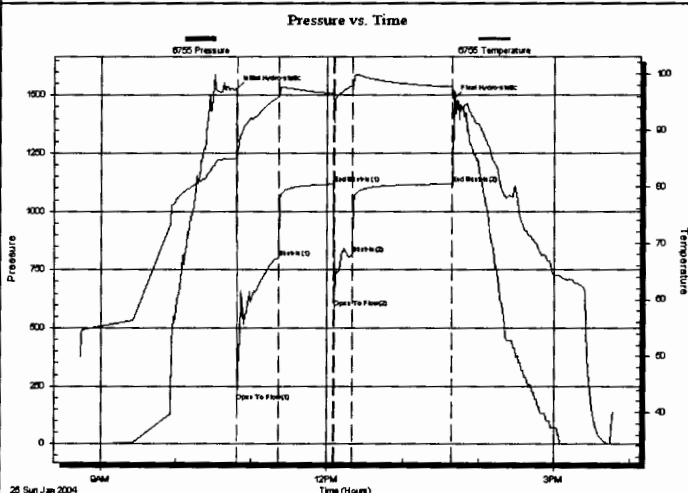
Time Off Btm: **2004.01.25 @ 13:39:23**

TEST COMMENT: IF:20 ft. of solid fill on btm. Slid tool 16 ft. Strong blow. GTS in 4.5 mins.

(see gas volume report) Fluid to surface in 15 mins.

IS:Venting

FF:Strong blow. Fluid to surface (MW) in 6 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1525.15	85.05	Initial Hydro-static
1	182.72	85.87	Open To Flow (1)
34	801.96	95.98	Shut-In(1)
78	1116.55	96.58	End Shut-In(1)
78	585.36	94.20	Open To Flow (2)
93	815.74	97.83	Shut-In(2)
171	1117.40	97.74	End Shut-In(2)
172	1486.75	96.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
916.00	Salt water Rw .17 ohms @ 44 deg.	10.66

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	52.00	447.91



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18711

DST#: 2

ATTN: James Musgrove

Test Start: 2004.01.25 @ 08:43:53

Tool Information

Drill Pipe:	Length: 2773.00 ft	Diameter: 3.80 inches	Volume: 38.90 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 40.08 bbl</u>	Tool Chased 16.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3028.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	67.00 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			3009.00	
Shut In Tool	5.00			3014.00	
Hydraulic tool	5.00			3019.00	
Packer	4.00			3023.00	20.00 Bottom Of Top Packer
Packer	5.00			3028.00	
Stubb	1.00			3029.00	
Recorder	0.00	6755	Inside	3029.00	
Perforations	5.00			3034.00	
Change Over Sub	1.00			3035.00	
Blank Spacing	32.00			3067.00	
Change Over Sub	1.00			3068.00	
Perforations	2.00			3070.00	
Recorder	0.00	13222	Outside	3070.00	
Bullhose	5.00			3075.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18711

DST#: 2

ATTN: James Musgrove

Test Start: 2004.01.25 @ 08:43:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

78000 ppm

Viscosity: 33.00 sec/qt

Cushion Volume:

bbl

Water Loss: 29.86 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 37000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
916.00	Salt water Rw .17 ohms @ 44 deg.	10.663

Total Length: 916.00 ft

Total Volume: 10.663 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18711

DST#:2

ATTN: James Musgrove

Test Start: 2004.01.25 @ 08:43:53

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.50	52.00	447.91

Serial #: 6755

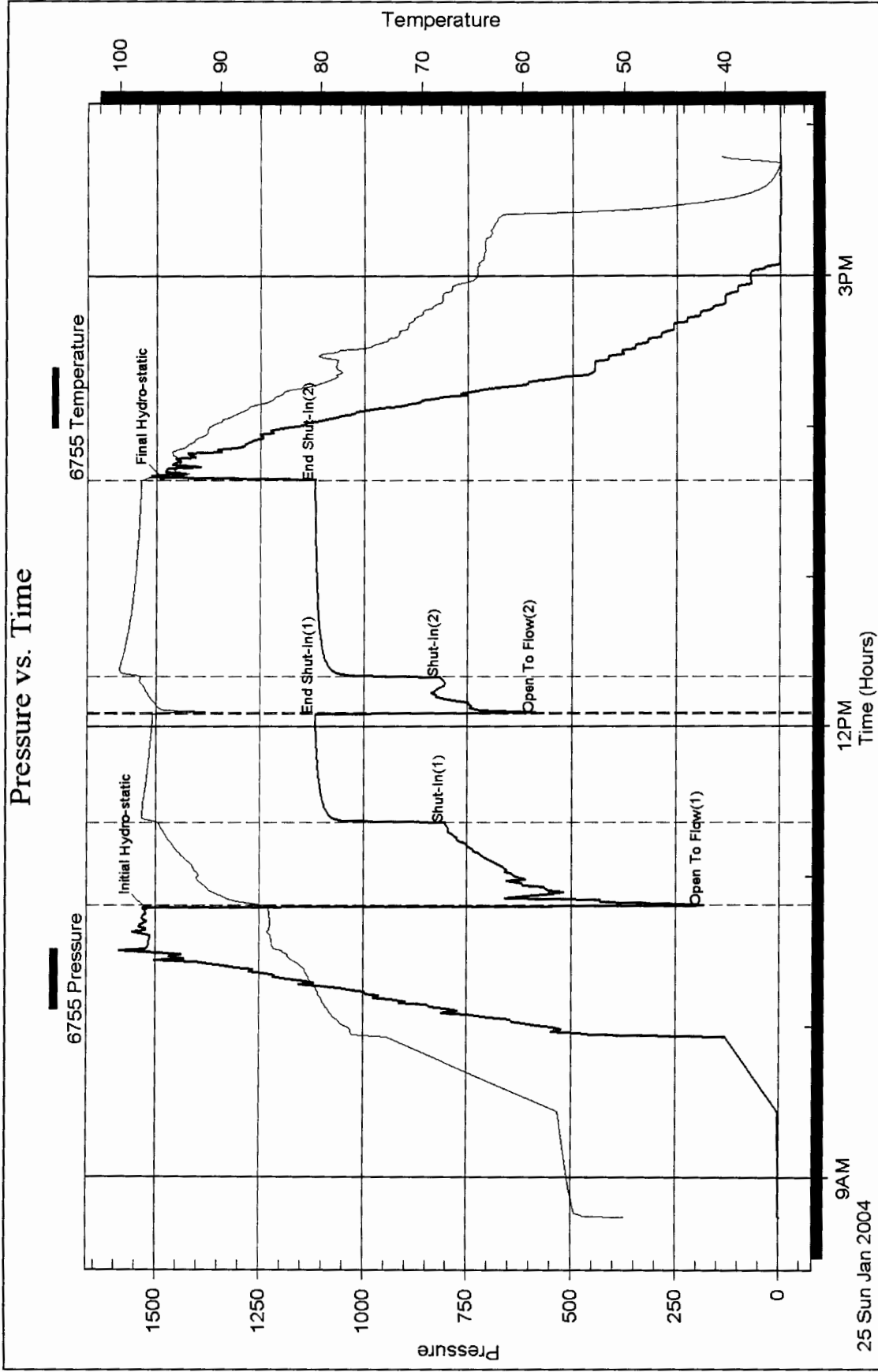
Inside

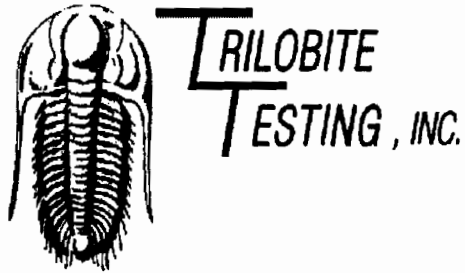
Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.01.26 @ 10:10:54

End Date: 2004.01.26 @ 17:19:39

Job Ticket #: 18712 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mai Oil Operations Inc.

Alexander #1

2-30s-14w Barber Ks.

DST # 3

Howard

2004.01.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18712

DST#: 3

ATTN: James Musgrove

Test Start: 2004.01.26 @ 10:10:54

GENERAL INFORMATION:

Formation: **Howard**

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

Time Tool Opened: 12:43:54

Time Test Ended: 17:19:39

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **3293.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Reference Elevations: **1960.00 ft (KB)**

Total Depth: **3355.00 ft (KB) (TVD)**

1951.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

KB to GR/CF: **9.00 ft**

Serial #: 6755 **Inside**

Press@RunDepth: **133.37 psig @ 3294.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.01.26**

End Date:

2004.01.26

Last Calib.:

2004.01.26

Start Time: **10:11:04**

End Time:

17:19:39

Time On Btm:

2004.01.26 @ 12:41:39

Time Off Btm:

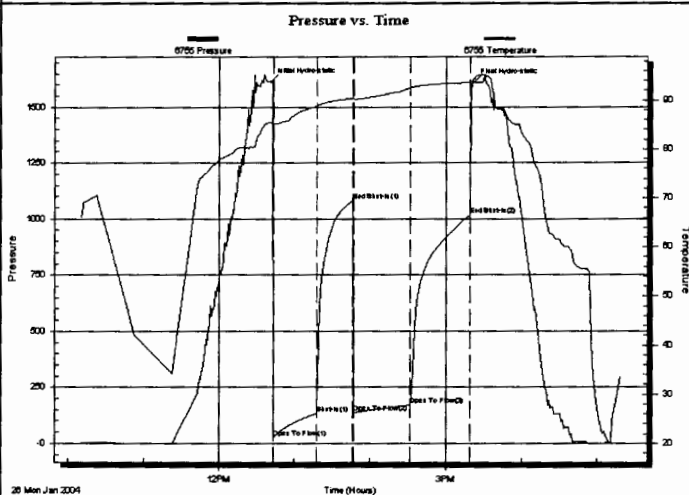
2004.01.26 @ 15:21:54

TEST COMMENT: **IF:Weak blow . 1 - 4".**

IS:No blow .

FF:Weak to fair blow . 1 - 6".

FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.13	85.46	Initial Hydro-static
3	23.08	85.14	Open To Flow (1)
37	133.37	88.79	Shut-In(1)
66	1080.14	90.44	End Shut-In(1)
66	135.49	90.24	Open To Flow (2)
111	169.65	92.56	Open To Flow (3)
158	1016.51	93.66	End Shut-In(2)
161	1611.49	94.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MW with a few oil specs Rw .19 ohms @1.18	
90.00	SOCMW 3%o 47%m 50%w	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18712

DST#: 3

ATTN: James Musgrove

Test Start: 2004.01.26 @ 10:10:54

Tool Information

Drill Pipe:	Length: 3055.00 ft	Diameter: 3.80 inches	Volume: 42.85 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 44.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3293.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3274.00	
Shut In Tool	5.00			3279.00	
Hydraulic tool	5.00			3284.00	
Packer	4.00			3288.00	20.00 Bottom Of Top Packer
Packer	5.00			3293.00	
Stubb	1.00			3294.00	
Recorder	0.00	6755	Inside	3294.00	
Perforations	5.00			3299.00	
Change Over Sub	1.00			3300.00	
Blank Spacing	32.00			3332.00	
Change Over Sub	1.00			3333.00	
Perforations	17.00			3350.00	
Recorder	0.00	13222	Outside	3350.00	
Bullnose	5.00			3355.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18712

DST#: 3

ATTN: James Musgrove

Test Start: 2004.01.26 @ 10:10:54

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:

74000 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbf

Water Loss: 28.87 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 33000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
240.00	MW with a few oil specs Rw .19 ohms @41	1.180
90.00	SOCMW 3%o 47%m 50%w	1.262

Total Length: 330.00 ft

Total Volume: 2.442 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

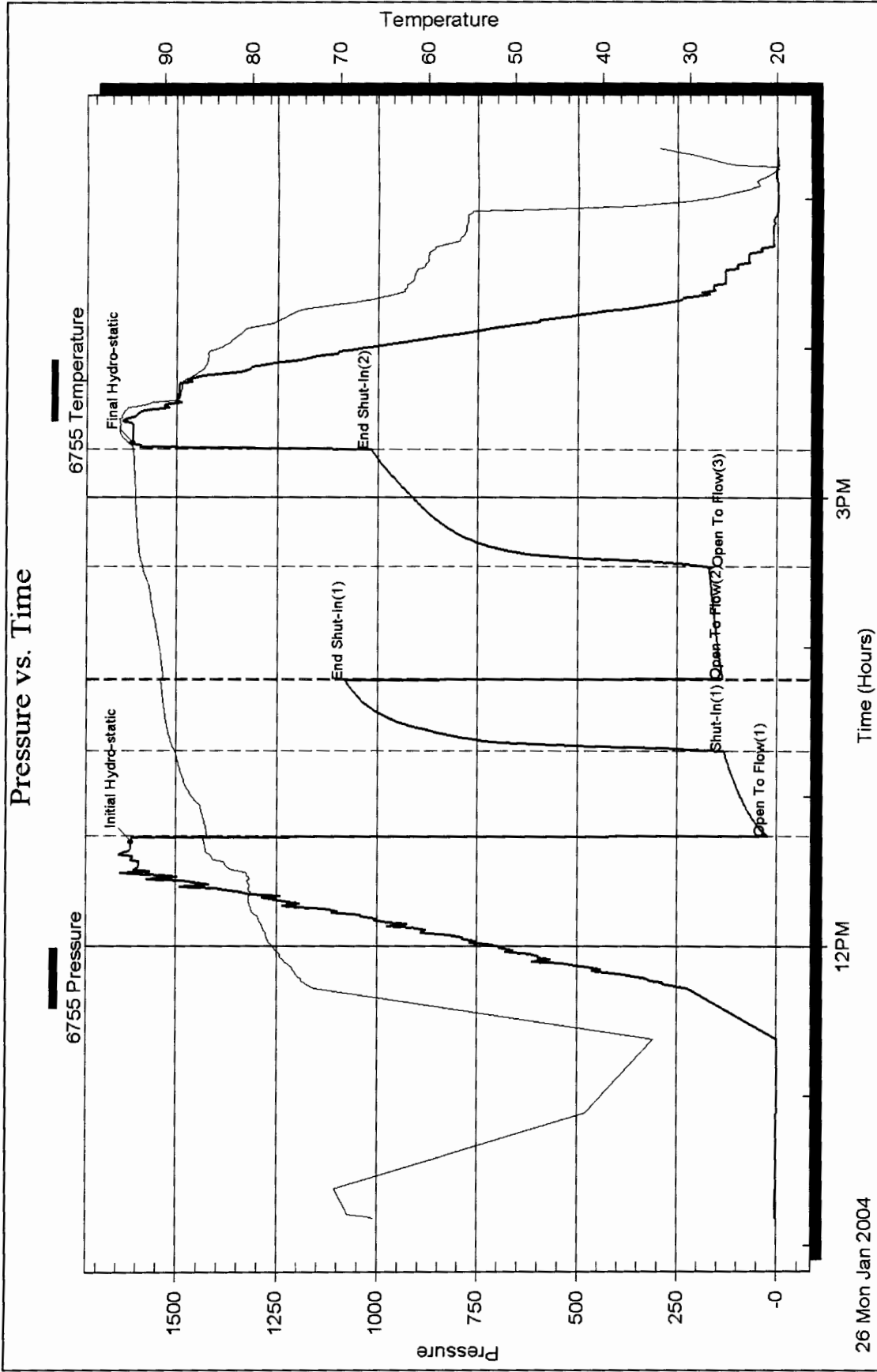
Inside

Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.01.28 @ 19:02:47

End Date: 2004.01.29 @ 02:25:02

Job Ticket #: 18713 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

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18713

DST#: 4

ATTN: James Musgrove

Test Start: 2004.01.28 @ 19:02:47

GENERAL INFORMATION:

Formation: **Lans B**

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

Time Tool Opened: 21:17:47

Time Test Ended: 02:25:02

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4030.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Reference Elevations: 1960.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

1951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: 68.52 psig @ 4031.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.01.28

End Date: 2004.01.29

Last Calib.: 2004.01.29

Start Time: 19:02:57

End Time: 02:25:02

Time On Btm: 2004.01.28 @ 21:14:47

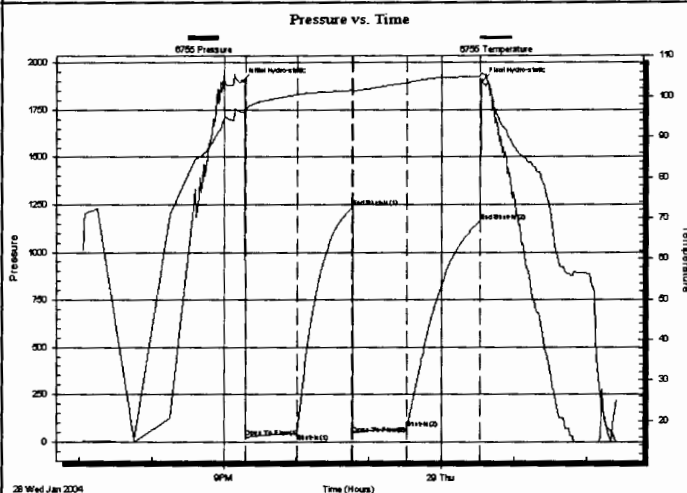
Time Off Btm: 2004.01.29 @ 00:33:47

TEST COMMENT: IF: Strong blow . B.O.B. in 1 mins.

IS: No blow .

FF: Strong blow . B.O.B. in 3 secs. GTS in 30 mins. TSTM

FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.62	96.09	Initial Hydro-static
3	24.68	96.14	Open To Flow (1)
46	44.67	100.45	Shut-In(1)
92	1234.72	101.54	End Shut-In(1)
92	41.81	101.20	Open To Flow (2)
137	68.52	103.28	Shut-In(2)
198	1161.51	105.03	End Shut-In(2)
199	1898.95	105.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%g 16%o 64%m	0.30
95.00	GOCM 20%g 4%o 76%m	0.47

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18713

DST#: 4

ATTN: James Musgrove

Test Start: 2004.01.28 @ 19:02:47

Tool Information

Drill Pipe:	Length: 3773.00 ft	Diameter: 3.80 inches	Volume: 52.93 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: 24000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4030.00 ft			Final 64000.00 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

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4011.00	
Shut In Tool	5.00			4016.00	
Hydraulic tool	5.00			4021.00	
Packer	4.00			4025.00	20.00 Bottom Of Top Packer
Packer	5.00			4030.00	
Stubb	1.00			4031.00	
Recorder	0.00	6755	Inside	4031.00	
Perforations	24.00			4055.00	
Recorder	0.00	13222	Outside	4055.00	
Bullnose	5.00			4060.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18713

DST#: 4

ATTN: James Musgrove

Test Start: 2004.01.28 @ 19:02:47

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:	4000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.16 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20%g 16%o 64%m	0.295
95.00	GOCM 20%g 4%o 76%m	0.467

Total Length: 155.00 ft Total Volume: 0.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

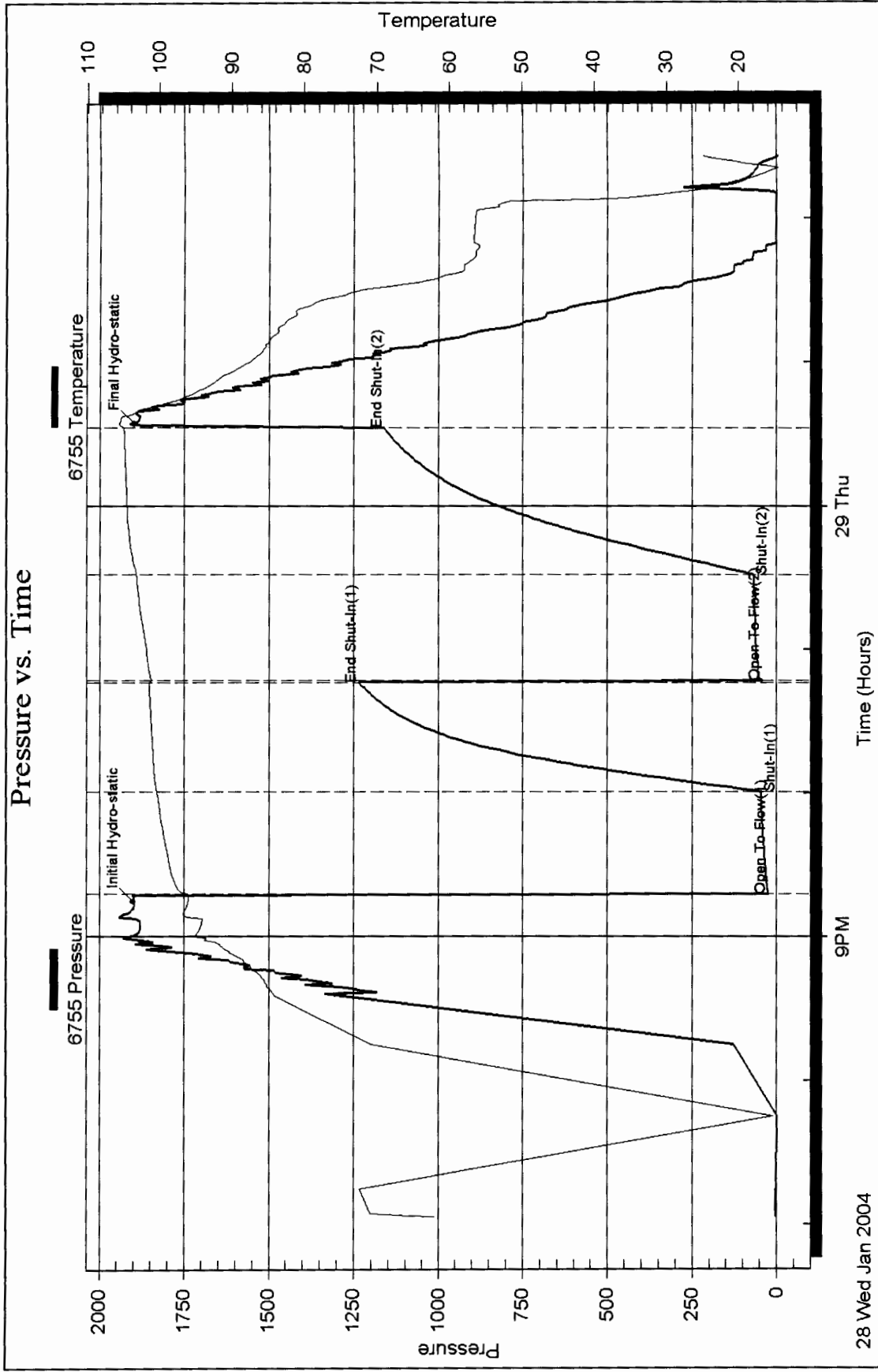
Inside

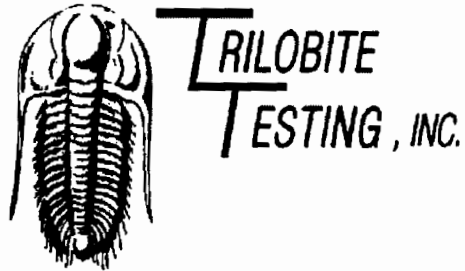
Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 4

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.01.29 @ 11:59:15

End Date: 2004.01.29 @ 18:46:45

Job Ticket #: 18714 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

TOOL DIAGRAM

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18714

DST#: 5

ATTN: James Musgrove

Test Start: 2004.01.29 @ 11:59:15

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4063.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	53.00 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			4044.00	
Shut In Tool	5.00			4049.00	
Hydraulic tool	5.00			4054.00	
Packer	4.00			4058.00	20.00 Bottom Of Top Packer
Packer	5.00			4063.00	
Stubb	1.00			4064.00	
Recorder	0.00	6755	Inside	4064.00	
Perforations	27.00			4091.00	
Recorder	0.00	13222	Outside	4091.00	
Bullnose	5.00			4096.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18714

DST#: 5

ATTN: James Musgrove

Test Start: 2004.01.29 @ 11:59:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	6000 ppm
Viscosity: 32.00 sec/qt	Cushion Volume: bbl		
Water Loss: 27.84 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 56000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GCM w it a few oil specs. 15%g 85%m	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:

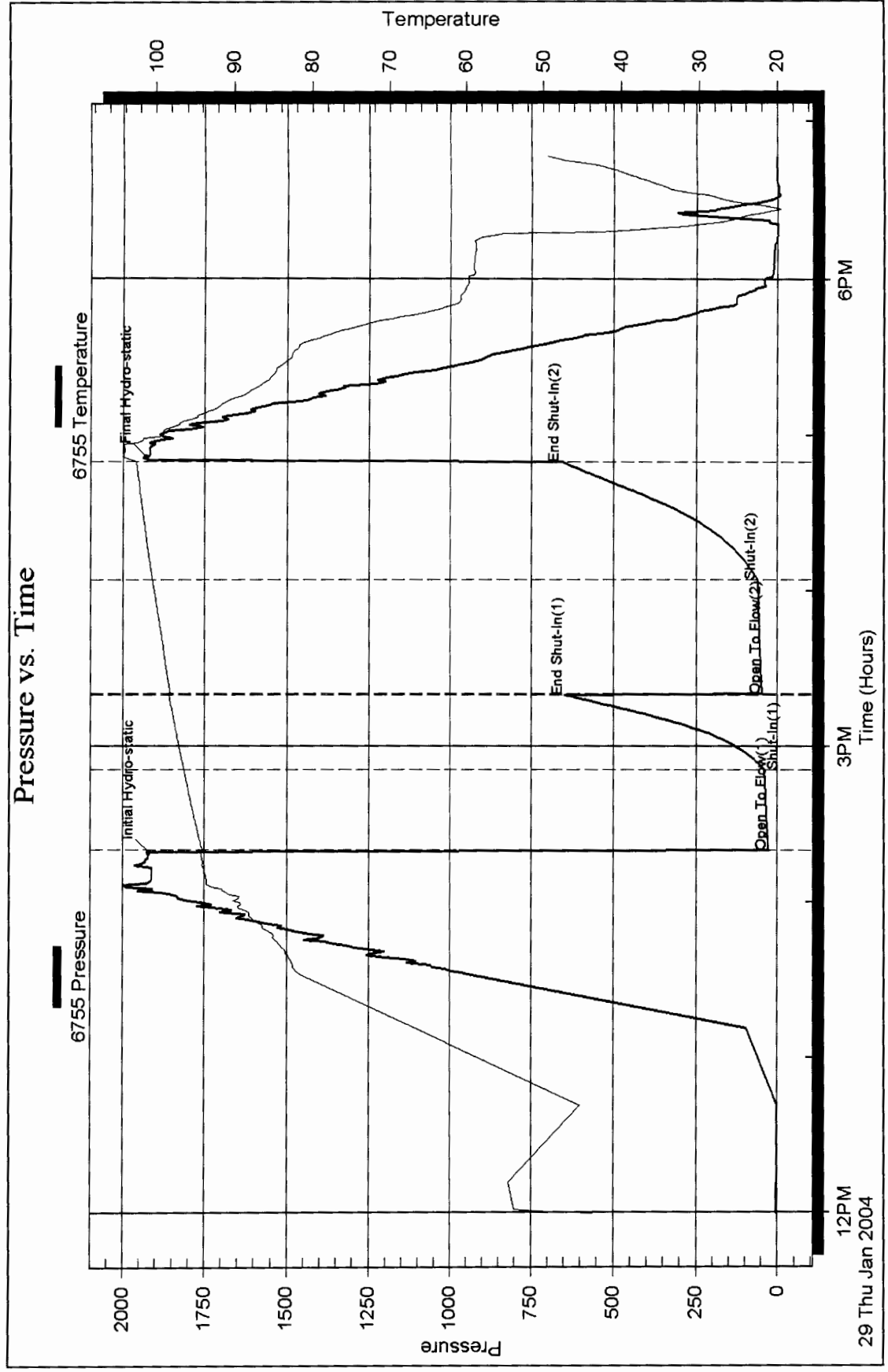
Serial #: 6755

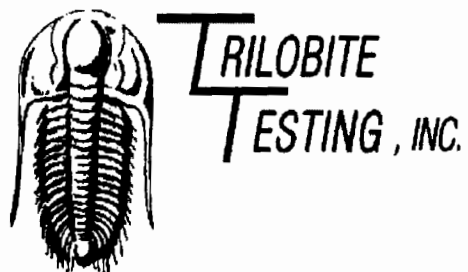
Inside

Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.01.30 @ 05:16:09

End Date: 2004.01.30 @ 13:24:24

Job Ticket #: 18715 DST #: 6

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.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18715

DST#: 6

ATTN: James Musgrove

Test Start: 2004.01.30 @ 05:16:09

GENERAL INFORMATION:

Formation: **Lans.**

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

Time Tool Opened: 08:11:09

Time Test Ended: 13:24:24

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4133.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Total Depth: **4150.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Floor**

Reference Elevations: **1960.00 ft (KB)**

1951.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **168.29 psig @ 4134.00 ft (KB)**

Start Date: **2004.01.30**

End Date:

2004.01.30

Start Time: **05:16:19**

End Time:

13:24:24

Capacity: **7000.00 psig**

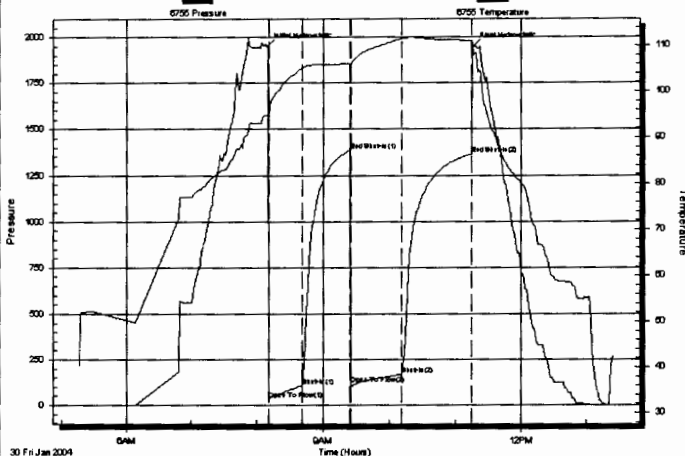
Last Calib.: **2004.01.30**

Time On Btm: **2004.01.30 @ 08:09:09**

Time Off Btm: **2004.01.30 @ 11:16:24**

TEST COMMENT: IF:Weak to fair blow . Slow increase to 13".
IS:Weak blow . 1/2 - 1 1/2".
FF:Fair to strong blow . B.O.B. in 15 mins.
FS:Weak blow . 1/2 - 1".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.94	94.77	Initial Hydro-static
2	31.86	94.28	Open To Flow (1)
32	106.99	105.17	Shut-In (1)
76	1384.68	106.04	End Shut-In (1)
77	113.13	105.93	Open To Flow (2)
122	168.29	111.53	Shut-In (2)
186	1364.76	111.09	End Shut-In (2)
188	1948.17	107.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Salt water Rw .12 ohms @ 51 deg.	1.18
70.00	MW with oil specs. 46% m 54% w	0.98
0.00	250 ft. of gas in pipe	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.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18715

DST#: 6

ATTN: James Musgrove

Test Start: 2004.01.30 @ 05:16:09

Tool Information

Drill Pipe:	Length: 3896.00 ft	Diameter: 3.80 inches	Volume: 54.65 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 55.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4133.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			4114.00	
Shut In Tool	5.00			4119.00	
Hydraulic tool	5.00			4124.00	
Packer	4.00			4128.00	20.00 Bottom Of Top Packer
Packer	5.00			4133.00	
Stubb	1.00			4134.00	
Recorder	0.00	6755	Inside	4134.00	
Perforations	11.00			4145.00	
Recorder	0.00	13222	Outside	4145.00	
Bullnose	5.00			4150.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18715

DST#: 6

ATTN: James Musgrove

Test Start: 2004.01.30 @ 05:16:09

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:

90000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Salt water Rw .12 ohms @ 51 deg.	1.180
70.00	MW with oil specs. 46% m 54% w	0.982
0.00	250 ft. of gas in pipe	0.000

Total Length: 310.00 ft

Total Volume: 2.162 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

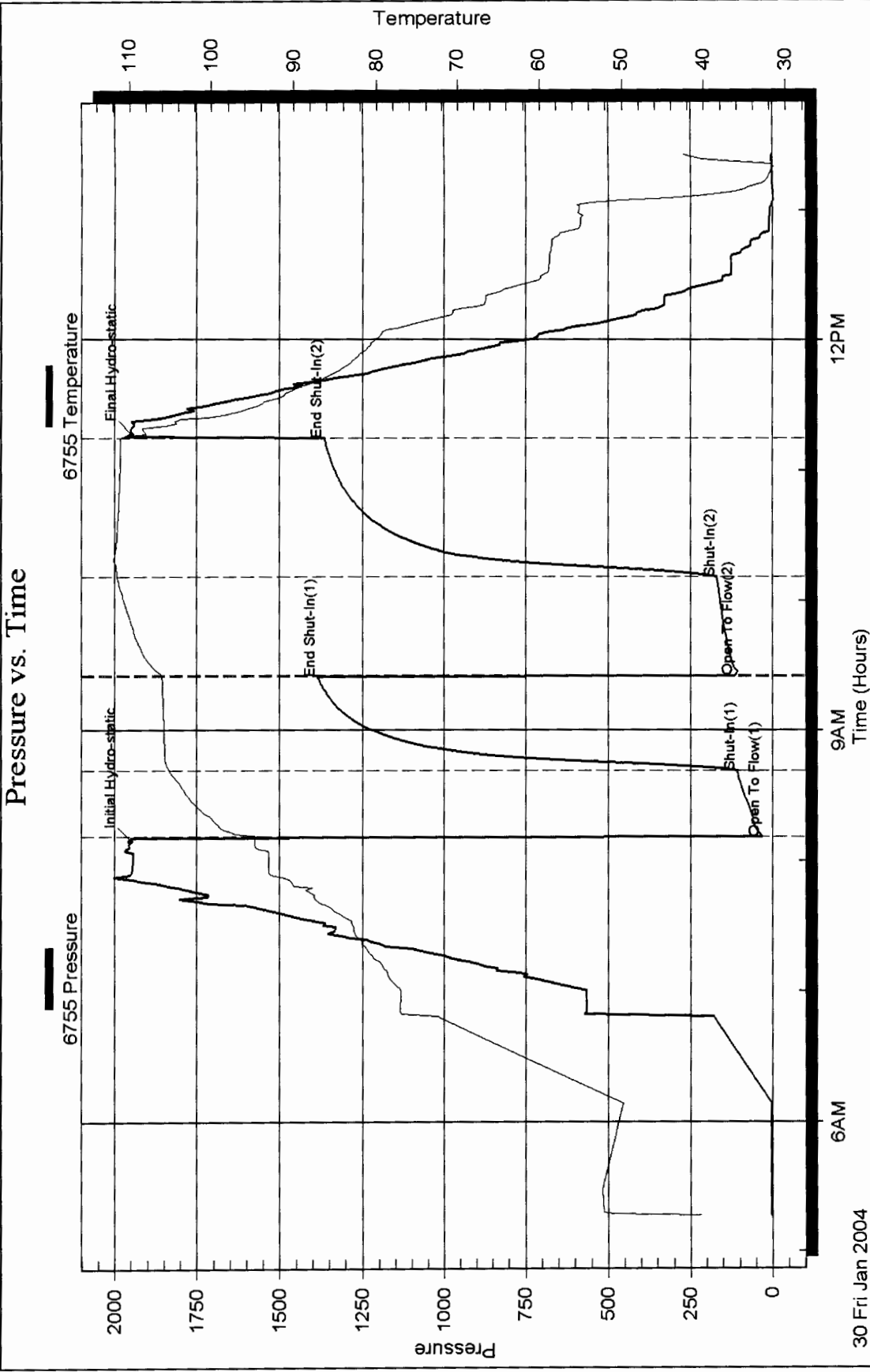
Inside

Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 6

Pressure vs. Time

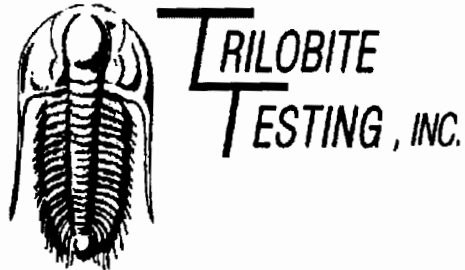


30 Fri Jan 2004

6AM

9AM

12PM



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

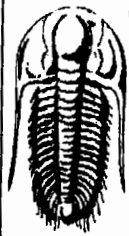
Alexander #1

Start Date: 2004.01.31 @ 20:26:10

End Date: 2004.02.01 @ 05:08:40

Job Ticket #: 18716 DST #: 7

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.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18716

DST#: 7

ATTN: James Musgrove

Test Start: 2004.01.31 @ 20:26:10

GENERAL INFORMATION:

Formation: **Lwr.Marmaton/Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:11:25

Time Test Ended: 05:08:40

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4411.00 ft (KB) To 4492.00 ft (KB) (TVD)**

Total Depth: 4492.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1960.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6755 Inside

Press@RunDepth: 63.26 psig @ 4412.00 ft (KB)

Start Date: 2004.01.31

End Date:

2004.02.01

Capacity: 7000.00 psig

Last Calib.: 2004.02.01

Start Time: 20:26:20

End Time:

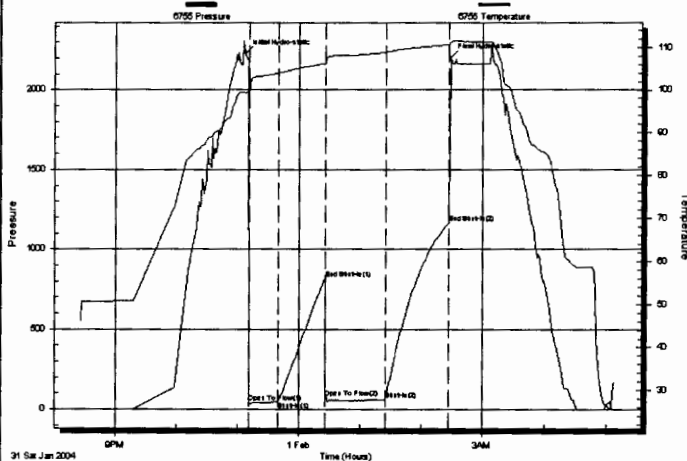
05:08:39

Time On Btm: 2004.01.31 @ 23:06:55

Time Off Btm: 2004.02.01 @ 02:27:55

TEST COMMENT: IF:Strong blow . B.O.B. in 8 - 10 mins.
IS:No blow .
FF:Strong blow . B.O.B. in 2 - 3 secs.
FS:Weak blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.16	99.31	Initial Hydro-static
5	40.59	99.25	Open To Flow (1)
34	49.57	103.99	Shut-In(1)
79	814.73	106.25	End Shut-In(1)
79	69.59	106.13	Open To Flow (2)
138	63.26	108.87	Shut-In(2)
200	1163.15	110.58	End Shut-In(2)
201	2204.92	111.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drig.mud	0.37
0.00	1200 ft. of gas in pipe	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.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18716

DST#:7

ATTN: James Musgrove

Test Start: 2004.01.31 @ 20:26:10

Tool Information

Drill Pipe:	Length: 4175.00 ft	Diameter: 3.80 inches	Volume: 58.56 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 59.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4411.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4392.00	
Shut In Tool	5.00			4397.00	
Hydraulic tool	5.00			4402.00	
Packer	4.00			4406.00	20.00 Bottom Of Top Packer
Packer	5.00			4411.00	
Stubb	1.00			4412.00	
Recorder	0.00	6755	Inside	4412.00	
Perforations	10.00			4422.00	
Change Over Sub	1.00			4423.00	
Blank Spacing	63.00			4486.00	
Change Over Sub	1.00			4487.00	
Recorder	0.00	13222	Outside	4487.00	
Bullnose	5.00			4492.00	81.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18716

DST#: 7

ATTN: James Musgrove

Test Start: 2004.01.31 @ 20:26:10

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:	10000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.38 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Drig.mud	0.369
0.00	1200 ft. of gas in pipe	0.000

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

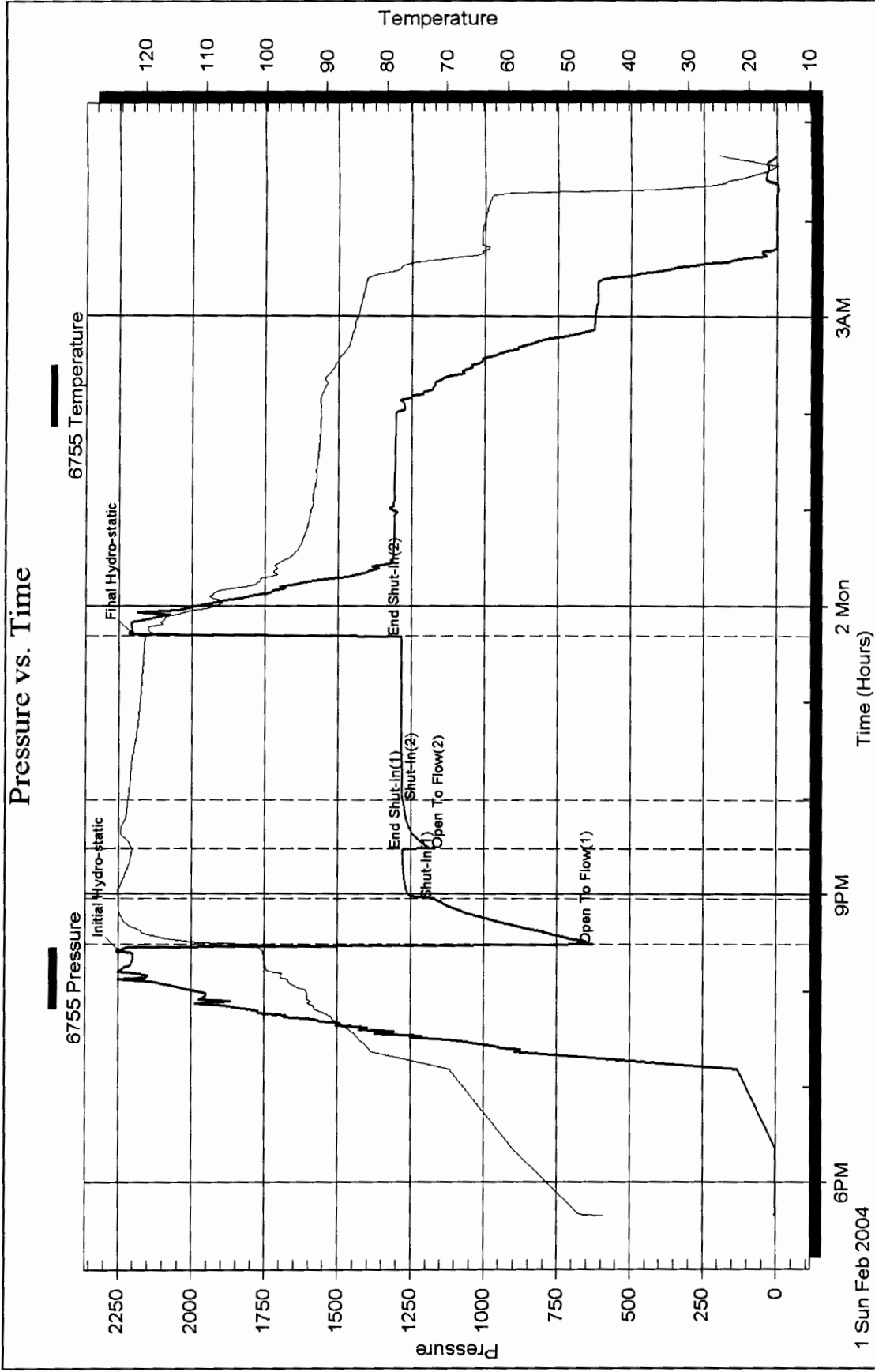
Inside

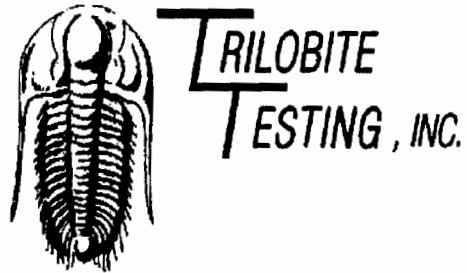
Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 7

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell Ks. 67665

ATTN: James Musgrove

2-30s-14w Barber Ks.

Alexander #1

Start Date: 2004.02.01 @ 17:38:47

End Date: 2004.02.02 @ 04:39:47

Job Ticket #: 18717 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mai Oil Operations Inc.

Alexander #1

2-30s-14w Barber Ks.

DST # 8

Simpson

2004.02.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18717

DST#: 8

ATTN: James Musgrove

Test Start: 2004.02.01 @ 17:38:47

GENERAL INFORMATION:

Formation: **Simpson**

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

Time Tool Opened: 20:28:32

Time Test Ended: 04:39:47

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4501.00 ft (KB) To 4546.00 ft (KB) (TVD)**

Reference Elevations: **1960.00 ft (KB)**

Total Depth: **4546.00 ft (KB) (TVD)**

1951.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

KB to GR/CF: **9.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **1278.41 psig @ 4502.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.02.01**

End Date:

2004.02.02

Last Calib.: **2004.02.02**

Start Time: **17:38:57**

End Time:

04:39:46

Time On Btm: **2004.02.01 @ 20:24:17**

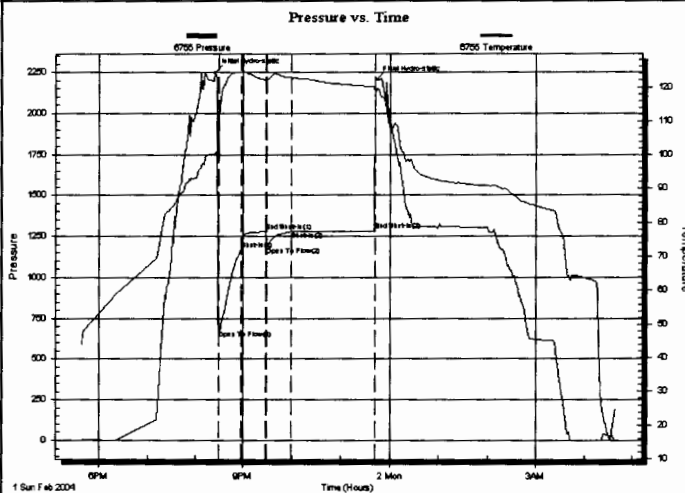
Time Off Btm: **2004.02.01 @ 23:42:47**

TEST COMMENT: **IF: Strong blow . B.O.B. in 50 secs.**

IS: Weak blow . 1/2 - 1 1/2".

FF: Strong blow . B.O.B. in 2 mins.

FSI: Weak blow . 1".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.77	100.46	Initial Hydro-static
5	625.94	102.91	Open To Flow (1)
33	1169.44	124.33	Shut-In(1)
64	1277.70	122.11	End Shut-In(1)
64	1186.56	122.09	Open To Flow (2)
94	1278.41	122.85	Shut-In(2)
197	1282.84	120.10	End Shut-In(2)
199	2205.91	118.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2550.00	Salt water Rw .3 ohms @ 37 deg.	33.58
180.00	WM 20%w 80%m	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18717

DST#: 8

ATTN: James Musgrove

Test Start: 2004.02.01 @ 17:38:47

Tool Information

Drill Pipe:	Length: 4269.00 ft	Diameter: 3.80 inches	Volume: 59.88 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 89000.00 lb
			<u>Total Volume: 61.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4501.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4482.00	
Shut In Tool	5.00			4487.00	
Hydraulic tool	5.00			4492.00	
Packer	4.00			4496.00	20.00 Bottom Of Top Packer
Packer	5.00			4501.00	
Stubb	1.00			4502.00	
Recorder	0.00	6755	Inside	4502.00	
Perforations	5.00			4507.00	
Change Over Sub	1.00			4508.00	
Blank Spacing	32.00			4540.00	
Change Over Sub	1.00			4541.00	
Recorder	0.00	13222	Outside	4541.00	
Bullnose	5.00			4546.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

Alexander #1

P.O.Box 33
Russell Ks. 67665

2-30s-14w Barber Ks.

Job Ticket: 18717

DST#: 8

ATTN: James Musgrove

Test Start: 2004.02.01 @ 17:38:47

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: 47000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2550.00	Salt water Rw .3 ohms @ 37 deg.	33.584
180.00	WM 20%w 80%m	2.525

Total Length: 2730.00 ft Total Volume: 36.109 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

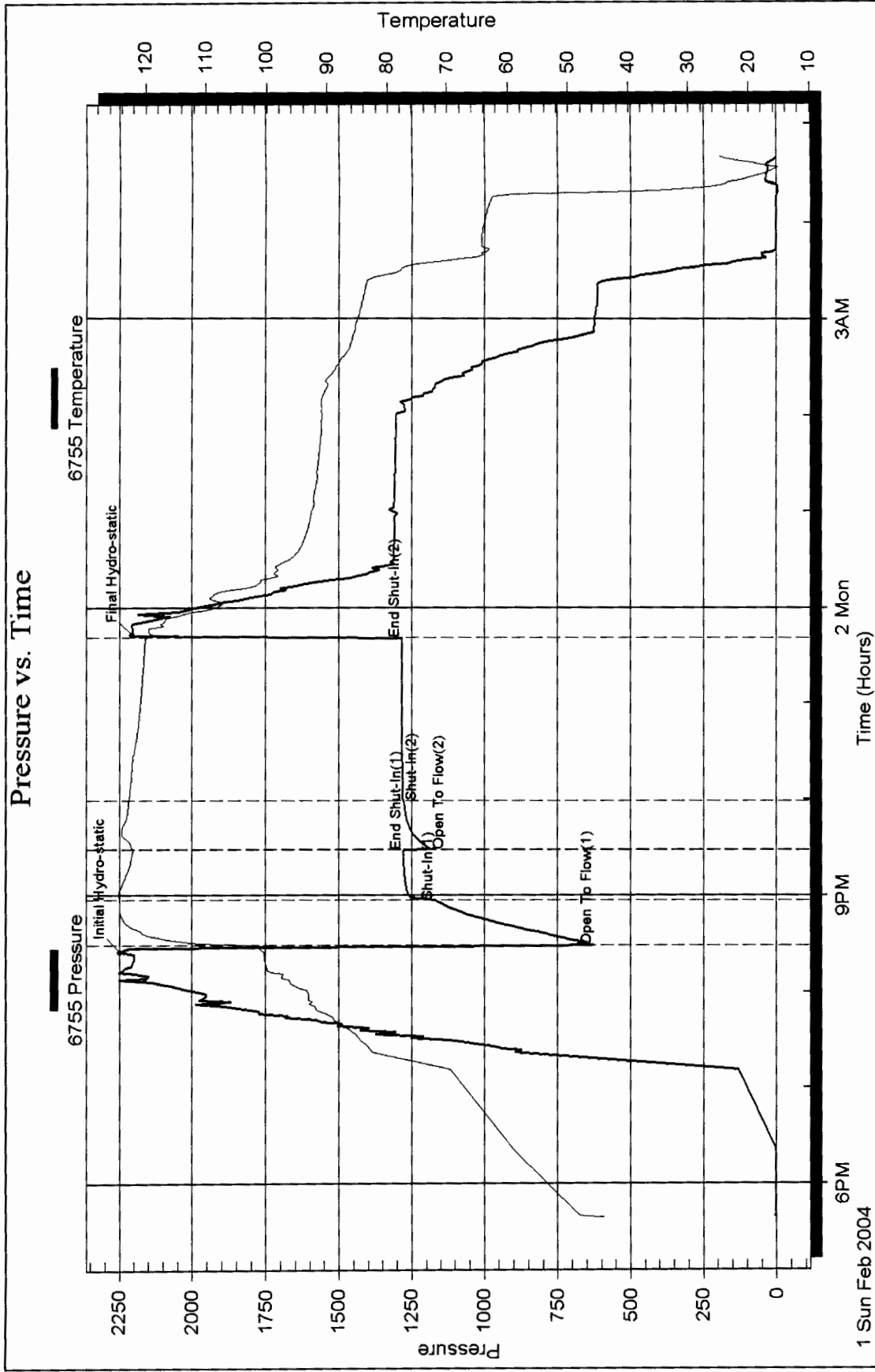
Serial #: 6755

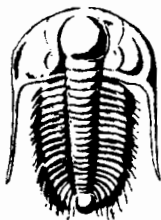
Inside

Mai Oil Operations Inc.

2-30s-14w Barber Ks.

DST Test Number: 8





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

6171

No 18710

05/03

Test Ticket

Well Name & No. Alexander #1 Test No. 1 Date 1-24-04
 Company Mai Oil Oper. Inc. Zone Tested Indian Cove
 Address P.O. Box 33, Russell Ks. 67665 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Musgrave Cont. Stirling Dlg. #4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30S Rge. 14W Co. Pratt State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2936 - 3004' Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length 68' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 2931' Tool Weight 2100#
 Bottom Packer Depth 2936' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3004' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 9.6 LCM ~ Vis. 32 WL 280cc Drill Pipe Size 4 1/2" Ft. Run 2682'
 Blow Description IF: Strong blow. GTS in 6.5 mins. (see gas volume report) IS: No blow.
FF: Strong blow. (see gas volume report)

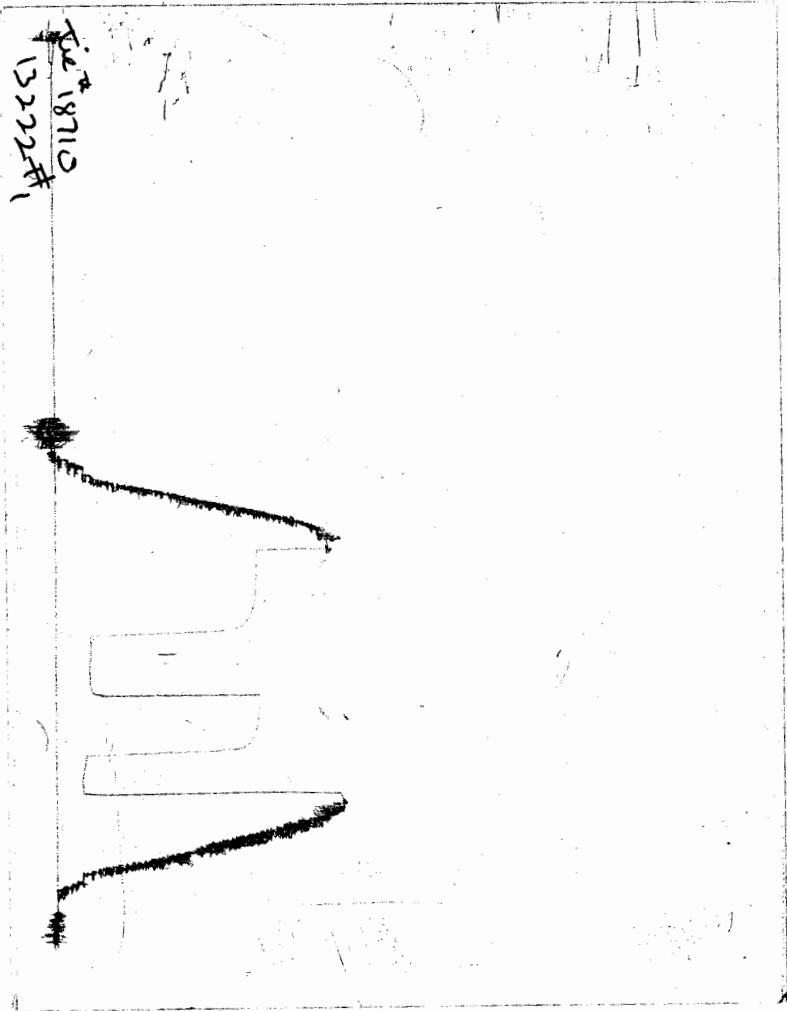
Recovery - Total Feet 330 GIP yes Ft. in DC 240 Ft. in DP 90
 Rec. 330 Feet of WM %gas _____ %oil _____ %water 14 %mud 86
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 94 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API _____
 RW .18 @ 49 °F Chlorides 60,000 ppm Recovery _____ Chlorides 56,000 ppm System _____

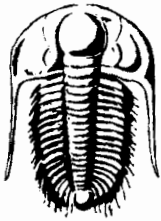
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1458	PSI	6755	✓ 700
(B) First Initial Flow Pressure	84	PSI	(depth) 2937'	Elec. Rec. ✓ 150
(C) First Final Flow Pressure	164	PSI	Recorder No. 13222	Jars _____
(D) Initial Shut-In Pressure	1077	PSI	(depth) 2999'	Safety Jt. _____
(E) Second Initial Flow Pressure	155	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	188	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	1070	PSI	Initial Opening 30	Straddle _____
(Q) Final Hydrostatic Mud	1434	PSI	Initial Shut-In 45	Ext. Packer _____
			Final Flow 45	Shale Packer _____
			Final Shut-In 60	Mileage ✓ 2542.5'
			T-On Location 1655	Sub Total: 875
			T-Started 1802	Std. By 892.50
			T-Open 1956	Other _____
			T-Pulled 2057	Total: ✓ 875.00
			T-Out 0049	

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.

Approved By _____
 Our Representative Cony Pevotians

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18711

05/03

Test Ticket

Well Name & No. Alexander #1 Test No. 2 Date 1-25-04
 Company Main Oil Oper. Inc. Zone Tested Langdon
 Address P.O. Box 33, Russell Co. 67665 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Musgrove Cont. Stirling Drly. #4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30S Rge. 14W Co. Pratt State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3028 - 3075' Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 61,000
 Anchor Length 47' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 16,000
 Top Packer Depth 3023' Tool Weight 2100#
 Bottom Packer Depth 3028' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3075' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 9.6 LCM ~ Vis. 33 WL 30.0cc Drill Pipe Size 4 1/2" Ft. Run 2773

Blow Description IF: 20ft. of solid fill on bit. Did tool 16'. Strong blow. GTS in 4.5 mins. (see gas volume report) Fluid to surface in 15 mins. IS: Venting FF: strong blow. Fluid to surface (M.W.) in 6 mins. FSI, No blow.

Recovery - Total Feet 916 GIP yes Ft. in DC 240 Ft. in DP 676
 Rec. 916 Feet of bottom water %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____

BHT 98 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW .17 @ 44 °F Chlorides 78,000 ppm Recovery _____ Chlorides 37,000 ppm System

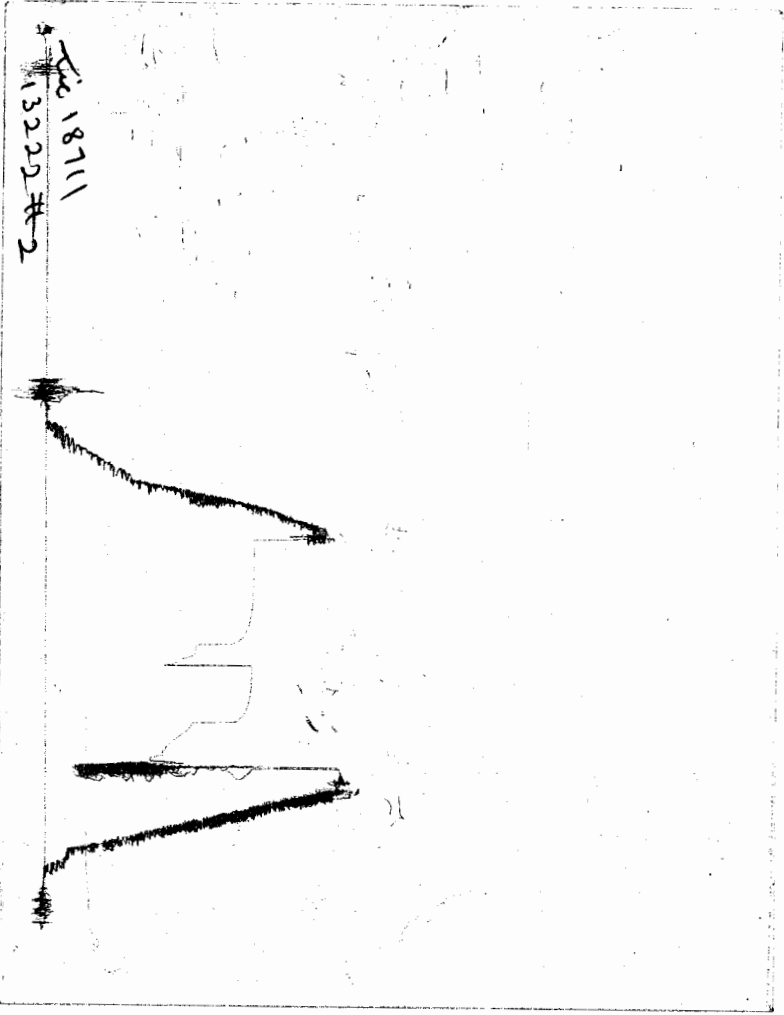
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1525	PSI	6755	✓ 700
(B) First Initial Flow Pressure	183	PSI	3029'	✓ 150
(C) First Final Flow Pressure	802	PSI	13222	Jars
(D) Initial Shut-In Pressure	1117	PSI	3070'	Safety Jt.
(E) Second Initial Flow Pressure	585	PSI	—	Circ Sub
(F) Second Final Flow Pressure	816	PSI	—	Sampler
(G) Final Shut-In Pressure	1117	PSI	Initial Opening 30	Straddle
(Q) Final Hydrostatic Mud	1487	PSI	Initial Shut-In 45	Ext. Packer
			Final Flow 15	Shale Packer
			Final Shut-In 75	Mileage ✓ 25
			T-On Location 0830	Sub Total: 875
			T-Started 0843	Std. By 892.50
			T-Open 1048	Other
			T-Pulled 1338	Total: ✓ 875.00
			T-Out 1547	

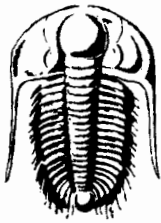
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
 Our Representative Gary Purotano

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18712

05/03

Test Ticket

Well Name & No. Alexander # 1 Test No. 3 Date 1-26-04
 Company Mai Oil Oper. Inc. Zone Tested Howard
 Address P.O. Box 33, Russell Ks. 67665 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Musgrove Cont. Sterling Dily, Ry Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30^S Rge. 14^W Co. Pratt State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3293 - 3355' Initial Str Wt./Lbs. 56,000 Unseated Str Wt/Lbs. 58,000
 Anchor Length 62' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 3288' Tool Weight 2100^{FF}
 Bottom Packer Depth 3293' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3355' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 9.4 LCM — Vis. 38 WL 29.00 Drill Pipe Size 4 1/2" Ft. Run 3055'
 Blow Description IF: Weak blow, 1-4". FSI: No blow.

FF: Weak to fair blow, 1-6". FSI: No blow.

Recovery - Total Feet 330 GIP trace Ft. in DC 240 Ft. in DP 90
 Rec. 90 Feet of 50CMW %gas 3 %oil 50 %water 47 %mud
 Rec. 240 Feet of MW with a few oil %gas _____ %oil 70 %water 30 %mud
 Rec. _____ Feet of Specs. %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 94 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW .19 @ 41 °F Chlorides 74,000 ppm Recovery _____ Chlorides 33,000 ppm System

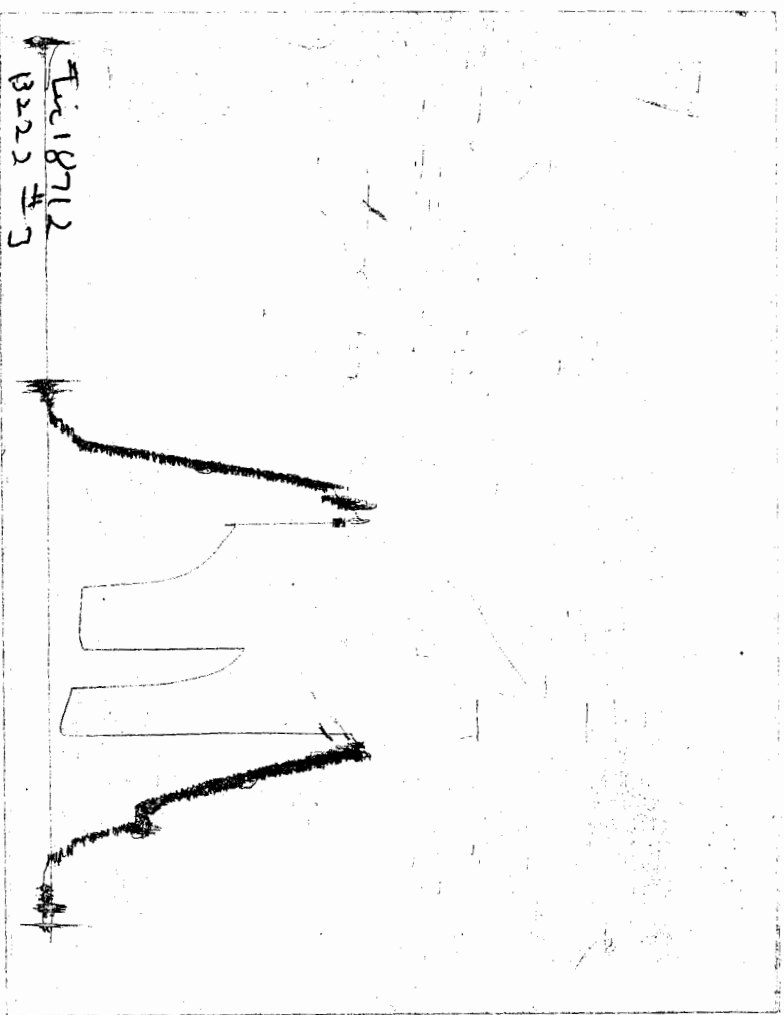
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1613</u> PSI	<u>1613</u> PSI	<u>6955</u>	<input checked="" type="checkbox"/> <u>700</u>
(B) First Initial Flow Pressure	<u>23</u> PSI	<u>23</u> PSI	<u>3294'</u>	Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
(C) First Final Flow Pressure	<u>133</u> PSI	<u>133</u> PSI	<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1080</u> PSI	<u>1080</u> PSI	<u>3350'</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>135</u> PSI	<u>135</u> PSI	_____	Circ Sub _____
(F) Second Final Flow Pressure	<u>170</u> PSI	<u>170</u> PSI	_____	Sampler _____
(G) Final Shut-In Pressure	<u>1017</u> PSI	<u>1017</u> PSI	<u>Initial Opening</u> <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1611</u> PSI	<u>1611</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>45</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>25</u>
			T-On Location <u>0853</u>	Sub Total: _____
			T-Started <u>1010</u>	Std. By _____
			T-Open <u>1243</u>	Other _____
			T-Pulled <u>1520</u>	Total: <input checked="" type="checkbox"/> <u>872.50</u>
			T-Out <u>1719</u>	<u>872.50</u>

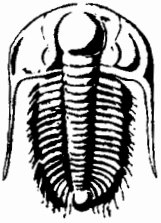
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
 Our Representative Gary P. [Signature]

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18713

Test Ticket

Well Name & No. Alexander #1 Test No. 4 Date 1-28-04
 Company Mai Oil Oper. Inc. Zone Tested Lans B
 Address Russell 16-27663 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Masgrove Cont. Stirling Dwyer Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30^S Rge. 14^W Co. Barber State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4030 - 4060' Initial Str Wt./Lbs. 4,000 Unseated Str Wt./Lbs. 4,000
 Anchor Length 30' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 89,000
 Top Packer Depth 4025' Tool Weight 2106 #
 Bottom Packer Depth 4030' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4060' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 9.2 LCM ~ Vis. 45 WL 11.2cc Drill Pipe Size 4 1/2" Ft. Run 3773'
 Blow Description IF: Strong blow B.O.B. in 1 min. ISL: No blow.

FF: Strong blow. B.O.B. in 3 sec. GTS in 30 mins. TSTM.
FSI: No blow.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>155</u>	<u>yes</u>	<u>155</u>	<u>0</u>
Rec. <u>95</u> Feet of <u>60CM</u>		<u>20</u> %gas <u>4</u> %oil	%water <u>76</u> %mud
Rec. <u>60</u> Feet of <u>60CM</u>		<u>20</u> %gas <u>16</u> %oil	%water <u>64</u> %mud
Rec. _____ Feet of _____		%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet of _____		%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet of _____		%gas _____ %oil _____	%water _____ %mud _____
BHT <u>105</u> °F Gravity <u>N/A</u> °API D @ _____ °F Corrected Gravity <u>N/A</u> °API			
RW <u>N.C.</u> @ _____ °F Chlorides <u>4,000</u> ppm Recovery _____ Chlorides <u>4,000</u> ppm System			

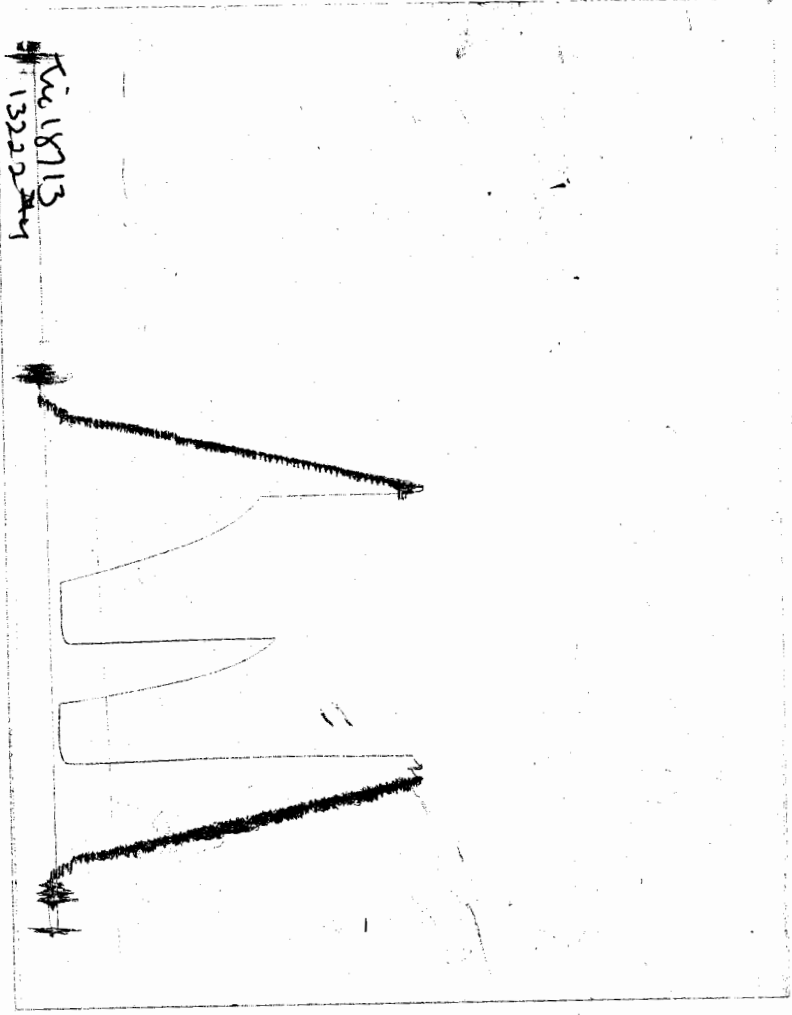
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1902</u> PSI		<u>6755</u>	<input checked="" type="checkbox"/> <u>800⁰⁰</u>
(B) First Initial Flow Pressure	<u>25</u> PSI		(depth) <u>4031'</u>	Elec. Rec. <input checked="" type="checkbox"/> <u>150⁰⁰</u>
(C) First Final Flow Pressure	<u>45</u> PSI		Recorder No. <u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1235</u> PSI		(depth) <u>4055'</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>42</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>69</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>462</u> PSI	Initial Opening	<u>45</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1899</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer _____
		Final Flow	<u>45</u>	Shale Packer _____
		Final Shut-In	<u>60</u>	Mileage <input checked="" type="checkbox"/> <u>25</u>
		T-On Location	<u>1830</u>	Sub Total: _____
		T-Started	<u>1902</u>	Std. By <u>992120</u>
		T-Open	<u>2117</u>	Other _____
		T-Pulled	<u>0032</u>	Total: <input checked="" type="checkbox"/> <u>800⁰⁰</u>
		T-Out	<u>0225</u>	

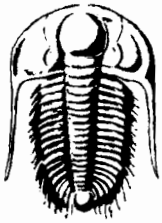
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
 Our Representative Gary P. [Signature]

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18714

05/03

Test Ticket

Well Name & No. Alexander #1 Test No. 5 Date 1-29-04
 Company Main Oil Oper. Inc. Zone Tested Lans
 Address Russell Ks. 67605 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. Jim Masgrove Cont. Stirling Drilling #4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30S Rge. 14W Co. ~~Barber~~ Barber State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4063 - 4096' Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 65,000
 Anchor Length 33' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4058' Tool Weight 2100#
 Bottom Packer Depth 4063' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4096' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 8.8 LCM ~ Vis. 38 WL 10.4cc Drill Pipe Size 4 1/2" Ft. Run 3835'
 Blow Description IF: Weak blow. 1/2 - 3". IS1: No blow.

FF: 1/2 - 4" weak below. FS1: No below.

Recovery - Total Feet 90 GIP Trace Ft. in DC 90 Ft. in DP 0
 Rec. 90 Feet of LCM wa fine 15 %gas %oil %water 85 %mud
 Rec. _____ Feet of oil spec. %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 103 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW NIC @ 2 °F Chlorides 6000 ppm Recovery _____ Chlorides 6,000 ppm System

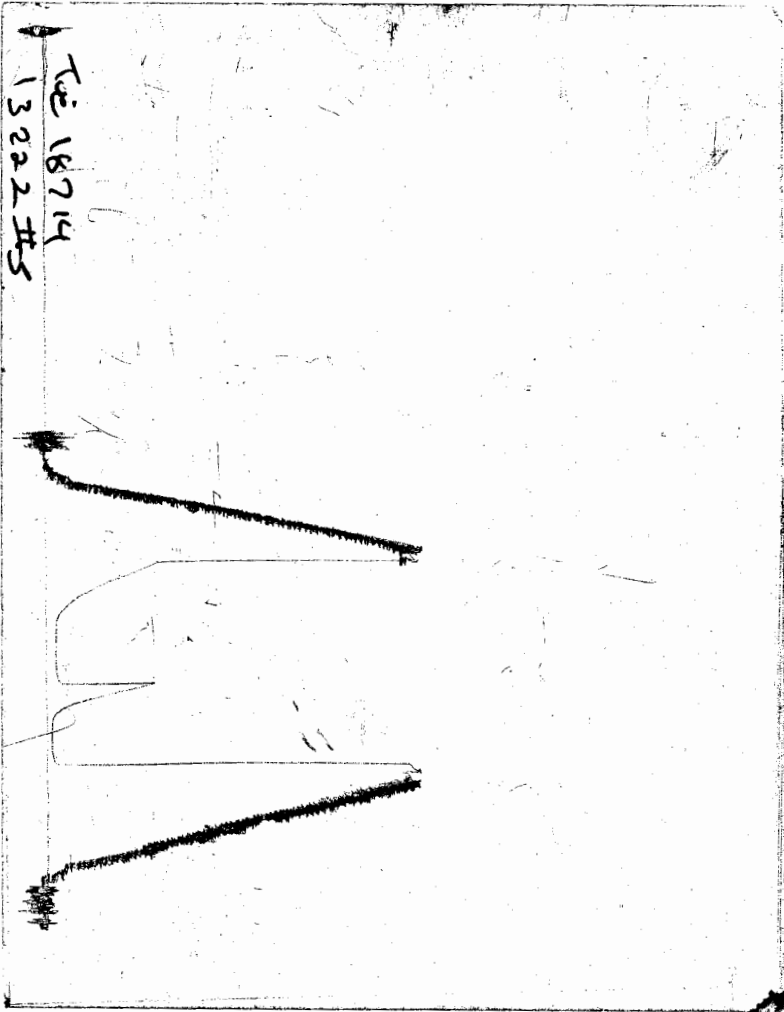
	AK-1	Alpine	Recorder No.		
(A) Initial Hydrostatic Mud		1920 PSI		6755	Test ✓ 800
(B) First Initial Flow Pressure		26 PSI	(depth)	4064'	Elec. Rec. ✓ 150
(C) First Final Flow Pressure		39 PSI	Recorder No.	13222	Jars _____
(D) Initial Shut-In Pressure		47 PSI	(depth)	4091'	Safety Jt. _____
(E) Second Initial Flow Pressure		43 PSI	Recorder No.	-	Circ Sub _____
(F) Second Final Flow Pressure		60 PSI	(depth)	-	Sampler _____
(G) Final Shut-In Pressure		658 PSI	Initial Opening	30	Straddle _____
(Q) Final Hydrostatic Mud		1929 PSI	Initial Shut-In	30	Ext. Packer _____
			Final Flow	45	Shale Packer _____
			Final Shut-In	45	Mileage ✓ 25
			T-On Location	420	Sub Total: <u>992.00</u>
			T-Started	1159	Std. By _____
			T-Open	1419	Other _____
			T-Pulled	1652	Total: ✓ <u>992.00</u>
			T-Out	1846	

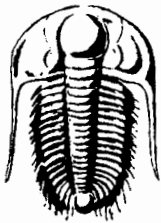
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
 Our Representative Coay P... [Signature]

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18715

05/03

Test Ticket

Well Name & No. Alexander #1 Test No. 6 Date 1-30-04
 Company Mai Oil Operations Inc. Zone Tested Gans
 Address Russell Ks. 67665 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Masgrove Cont. Starting Dily #4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30^S Rge. 14^W Co. Barber State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4133 - 4150' Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 46,000
 Anchor Length 17' Wt. Set Lbs. 70,000 Wt. Pulled Loose/Lbs. 78,000
 Top Packer Depth 4128' Tool Weight _____
 Bottom Packer Depth 4133' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4150' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 9.0 LCM --- Vis. 45 WL10.4cc Drill Pipe Size 4 1/2" Ft. Run 3896
 Blow Description IF: Weak to fair blow. Slow increase to 13".
ISI: Weak blow. 1/2 - 1 1/2".
FF: Fair to strong blow. B.O.B. in 15 mins. FSI: Weak blow. 1/2 - 1".

Recovery - Total Feet 310 GIP 250 Ft. in DC 240 Ft. in DP 70
 Rec. 70 Feet of MW @ oil spec %gas _____ %oil 54 %water 46 %mud _____
 Rec. 240 Feet of Salt Water %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 111 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .12 @ 51 °F Chlorides 90,000 ppm Recovery _____ Chlorides 6,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1951</u>	PSI	<u>6755</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>32</u>	PSI	<u>4134'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>107</u>	PSI	<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1385</u>	PSI	<u>4145'</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>113</u>	PSI	<u>---</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>148</u>	PSI	<u>---</u>	Sampler _____
(G) Final Shut-In Pressure	<u>1365</u>	PSI	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1948</u>	PSI	<u>45</u>	Ext. Packer _____

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.

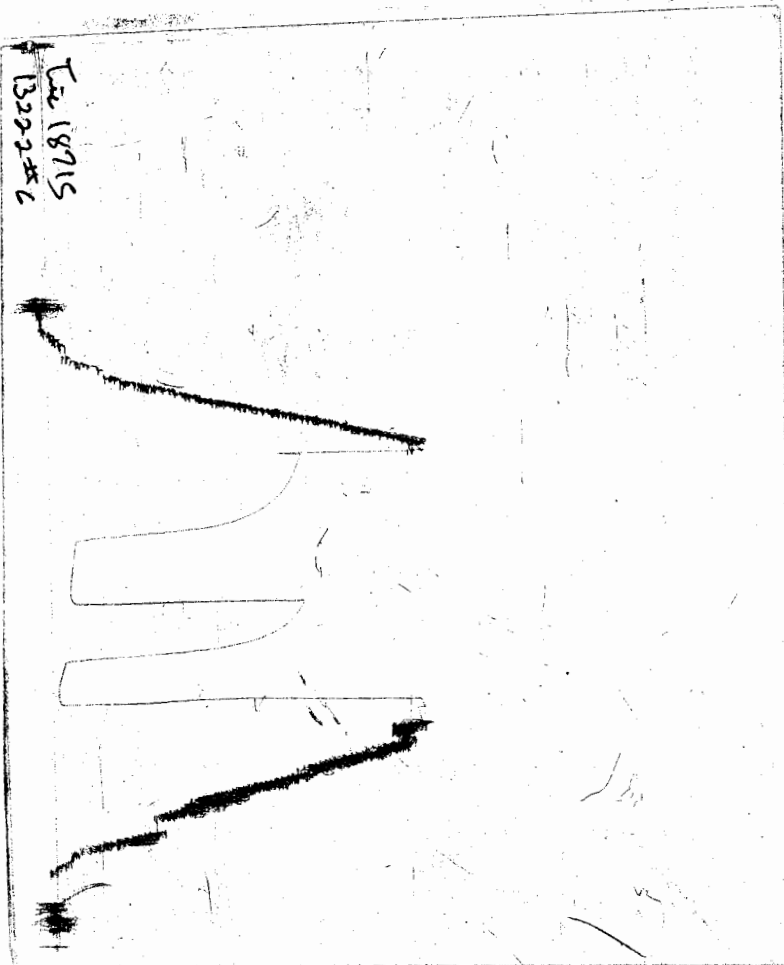
Approved By [Signature]
 Our Representative [Signature]

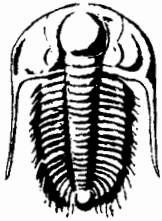
Initial Opening 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 T-On Location 0450
 T-Started 0516
 T-Open 0811
 T-Pulled 1114
 T-Out 1324

Mileage 2850
 Sub Total: 99250
 Std. By [Signature]
 Other _____
 Total: 925

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18716

Test Ticket

Well Name & No. Alphander #1 Test No. 7 Date 1-31-04
 Company Mai Oil Operations Inc. Zone Tested Lower MARMATON/VIOLA
 Address Russell Co. 67645 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Masgrove Cont. Stirling Doby #4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30S Rge. 14W Co. Barber State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4411 - 4492' Initial Str Wt./Lbs. 64,000 Unseated Str Wt./Lbs. 67,000
 Anchor Length 81 Wt. Set Lbs. 80,000 Wt. Pulled Loose/Lbs. 74,000
 Top Packer Depth 4406' Tool Weight 2100#
 Bottom Packer Depth 4411' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4492' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 9.3 LCM 1# Vis. 46 WL 9.4cc Drill Pipe Size 4 1/2" Ft. Run 4175'
 Blow Description IF: Strong below B.O.B. in 8-10 mins. ISI: No blow.

FF: Strong below B.O.B. in 2-3 secs. FSI: Weak below 1/2 - 1".

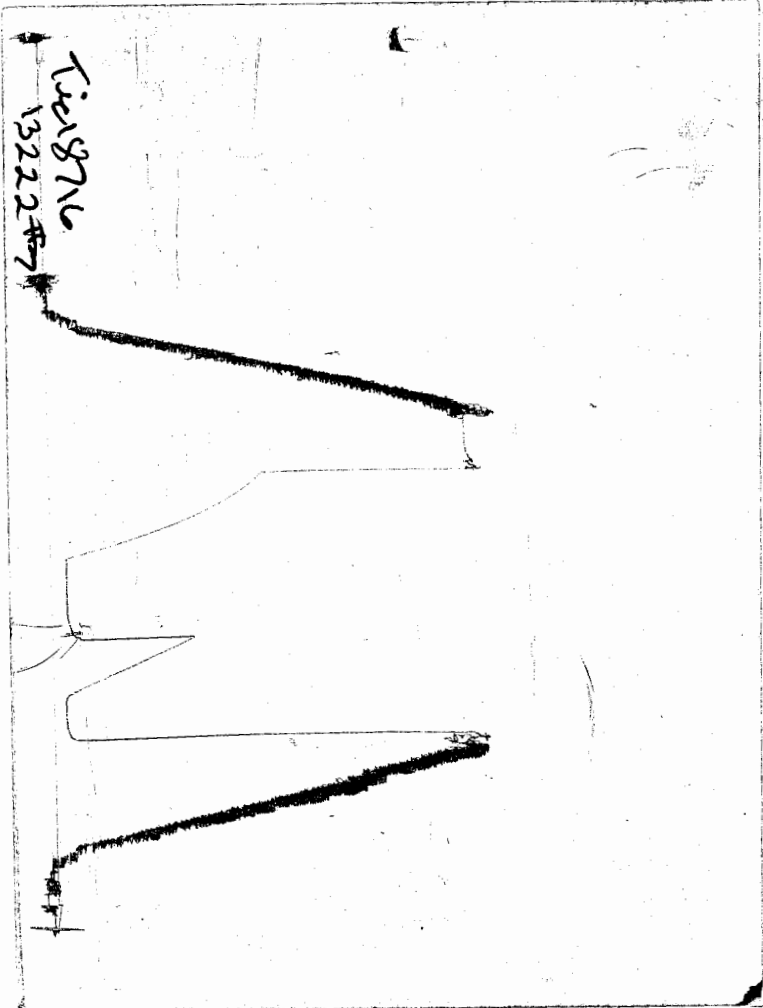
Recovery - Total Feet 75 GIP 1200 Ft. in DC 75 Ft. in DP 0
 Rec. 75 Feet of Only Mud %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT _____ °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A API _____
 RW NC. @ _____ °F Chlorides 10,000 ppm Recovery _____ Chlorides 10,000 ppm System _____

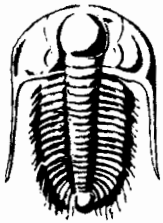
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	2231	PSI	6755	✓ 800
(B) First Initial Flow Pressure	41	PSI	4412'	Elec. Rec. ✓ 150
(C) First Final Flow Pressure	50	PSI	13222	Jars _____
(D) Initial Shut-In Pressure	815	PSI	4487'	Safety Jt. _____
(E) Second Initial Flow Pressure	70	PSI	_____	Circ Sub _____
(F) Second Final Flow Pressure	63	PSI	_____	Sampler _____
(G) Final Shut-In Pressure	1163	PSI	Initial Opening	Straddle _____
(Q) Final Hydrostatic Mud	2205	PSI	Initial Shut-In	Ext. Packer _____
			Final Flow	Shale Packer _____
			Final Shut-In	Mileage <u>25</u>
			T-On Location	Sub Total: _____
			T-Started	Std. By <u>992.50</u>
			T-Open	Other _____
			T-Pulled	Total: ✓ 975.00
			T-Out	

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.

Approved By _____
 Our Representative Cory Purdum

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18717

05/03

Test Ticket

Well Name & No. Alexander #1 Test No. 8 Date 2-1-04
 Company Mai Oil Oper. Inc. Zone Tested Simpson
 Address Russell Co. 62665 Elevation 1960 KB 1951 GL
 Co. Rep / Geo. James Musgrove Cont. Sterling Dlg. Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 30^S Rge. 14^W Co. Barber State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4501-4546 Initial Str Wt./Lbs. 67,000 Unseated Str Wt./Lbs. 80,000
 Anchor Length 45' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 89,000
 Top Packer Depth 4496' Tool Weight 2100#
 Bottom Packer Depth 4501' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4546' Wt. Pipe Run None Drill Collar Run 240'
 Mud Wt. 8.9 LCM 1# Vis. 50 WL 12.0cc Drill Pipe Size 4 1/2" Ft. Run 4269'
 Blow Description IF; Strong below. B.O.B. in 50 secs. FSI: Weak below. 42 - 1 1/2".
FF; Strong below. B.O.B. in 2 mins. FSI: Weak below. 1".

Recovery - Total Feet 2730 GIP 0 Ft. in DC 240 Ft. in DP 2490
 Rec. 180 Feet of WM %gas _____ %oil _____ %water 80 %mud _____
 Rec. 2550 Feet of Dalt Water %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 120 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 23 @ 37 °F Chlorides 47,000 ppm Recovery _____ Chlorides 14,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2248</u> PSI		<u>6755</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>626</u> PSI		<u>4502'</u>	<u>150</u>
(C) First Final Flow Pressure	<u>1169</u> PSI		<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1278</u> PSI		<u>4541'</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>1187</u> PSI		<u>---</u>	Circ Sub <u>35</u>
(F) Second Final Flow Pressure	<u>1278</u> PSI		<u>---</u>	Sampler _____
(G) Final Shut-In Pressure	<u>1283</u> PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2206</u> PSI	Initial Shut-In	<u>30</u>	Ext. Packer _____
		Final Flow	<u>30</u>	Shale Packer _____
		Final Shut-In	<u>* 45</u>	Mileage <u>42.50</u>
		T-On Location	<u>1715</u>	Sub Total: <u>1027.50</u>
		T-Started	<u>1738</u>	Std. By <u>90.00</u>
		T-Open	<u>2028</u>	Other <u>1112.50</u>
		T-Pulled	<u>* 2346</u>	Total: <u>1027.50</u>
		T-Out	<u>0439</u>	

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.

Approved By _____
 Our Representative Gary Swoboda

CHART PAGE

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

