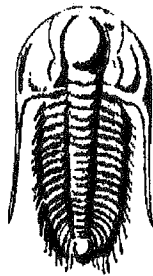


15-163-23722

14-8s-17w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **MAK- J Energy**

1600 Broadway Ave Ste 1740
Denver CO 80202

ATTN: Keith Reavis

14 8 17 Rooks KS

BD Muir # 6-14

Start Date: 2008.05.16 @ 02:05:57

End Date: 2008.05.16 @ 09:41:27

Job Ticket #: 31133

DST #: 1

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KCC
JUN 17 2008
CONFIDENTIAL

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

MAK- J Energy

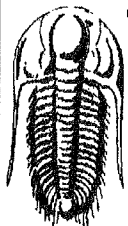
BD Muir # 6-14

14 8 17 Rooks KS

DST # 1

LKC

2008.05.16



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

MAK- J Energy

1600 Broadway Ave Ste 1740
Denver CO 80202

ATTN: Keith Reavis

BD Muir # 6-14

14 8 17 Rooks KS

Job Ticket: 31133

DST#: 1

Test Start: 2008.05.16 @ 02:05:57

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 05:16:27

Time Test Ended: 09:41:27

Test Type: **Conventional Bottom Hole**

Tester: **Tyson Flax**

Unit No: **44**

Interval: **3128.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Total Depth: **3230.00 ft (KB) (TVD)**

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

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

1954.00 ft (CF)

KB to GRVCF: **6.00 ft**

Serial #: 8374

Inside

Press@RunDepth: **41.57 psig @ 3131.00 ft (KB)**

Start Date: **2008.05.16**

End Date:

2008.05.16

Start Time: **02:05:58**

End Time:

09:41:27

Capacity: **7000.00 psig**

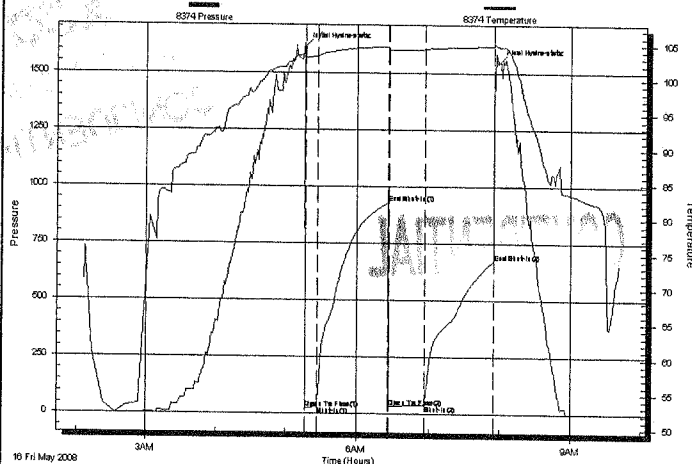
Last Calib.: **2008.05.17**

Time On Btm: **2008.05.16 @ 05:15:57**

Time Off Btm: **2008.05.16 @ 07:58:57**

TEST COMMENT: IFP Weak surface blow built to 1 "
ISI No blow back
FFP Weak surface blow throughout
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

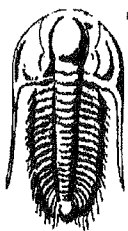
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.47	103.68	Initial Hydro-static
1	24.40	102.90	Open To Flow (1)
10	31.56	103.40	Shut-In (1)
70	926.83	104.74	End Shut-In (1)
71	33.29	104.33	Open To Flow (2)
100	41.57	104.37	Shut-In (2)
159	672.46	104.83	End Shut-In (2)
163	1544.86	104.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mw/scum of Oil	0.07

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

MAK- J Energy

BD Muir # 6-14

1600 Broadway Ave Ste 1740
Denver CO 80202

14 8 17 Rooks KS

Job Ticket: 31133

DST#: 1

ATTN: Keith Reavis

Test Start: 2008.05.16 @ 02:05:57

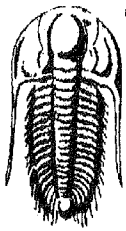
Tool Information

Drill Pipe:	Length: 2910.00 ft	Diameter: 3.34 inches	Volume: 31.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	32.58 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3128.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	130.00 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			3101.00	
Shut In Tool	5.00			3106.00	
Hydraulic tool	5.00			3111.00	
Jars	5.00			3116.00	
Safety Joint	2.00			3118.00	
Packer	5.00			3123.00	28.00 Bottom Of Top Packer
Packer	5.00			3128.00	
Stubb	1.00			3129.00	
Perforations	1.00			3130.00	
Change Over Sub	1.00			3131.00	
Recorder	0.00	8367	Inside	3131.00	
Recorder	0.00	8374	Inside	3131.00	
Blank Spacing	90.00			3221.00	
Change Over Sub	1.00			3222.00	
Perforations	5.00			3227.00	
Bullnose	3.00			3230.00	102.00 Bottom Packers & Anchor
Total Tool Length:	130.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

MAK- J Energy

BD Muir # 6-14

1600 Broadway Ave Ste 1740
Denver CO 80202

14 8 17 Rooks KS

Job Ticket: 31133

DST#: 1

ATTN: Keith Reavis

Test Start: 2008.05.16 @ 02:05:57

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mw/scum of Oil	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

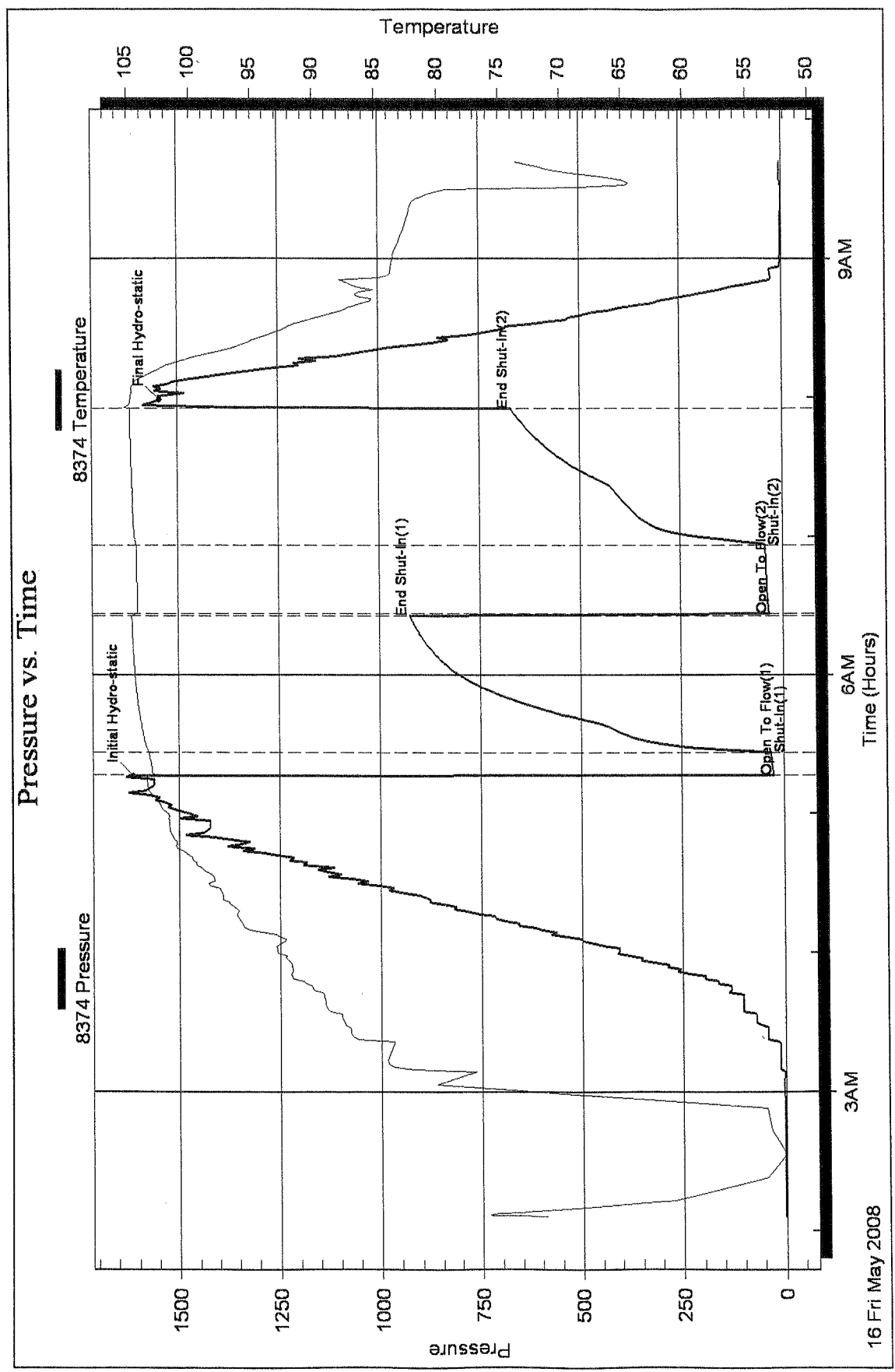
Serial #:

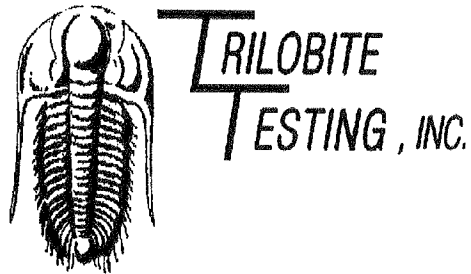
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MAK- J Energy**

1600 Broadway Ave Ste 1740
Denver CO 80202

ATTN: Keith Reavis

14 8 17 Rooks KS

BD Muir # 6-14

Start Date: 2008.05.17 @ 21:22:13

End Date: 2008.05.18 @ 05:53:13

Job Ticket #: 31134

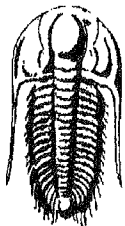
DST #: 2

CONFIDENTIAL

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

MAK- J Energy

1600 Broadway Ave Ste 1740
Denver CO 80202

ATTN: Keith Reavis

BD Muir # 6-14

14 8 17 Rooks KS

Job Ticket: 31134

DST#: 2

Test Start: 2008.05.17 @ 21:22:13

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:09:43

Time Test Ended: 05:53:13

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: 3254.00 ft (KB) To 3320.00 ft (KB) (TVD)

Total Depth: 3230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1960.00 ft (KB)

1954.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8374

Inside

Press@RunDepth: 36.60 psig @ 3257.00 ft (KB)

Start Date: 2008.05.17

End Date: 2008.05.18

Start Time: 21:22:14

End Time: 05:53:13

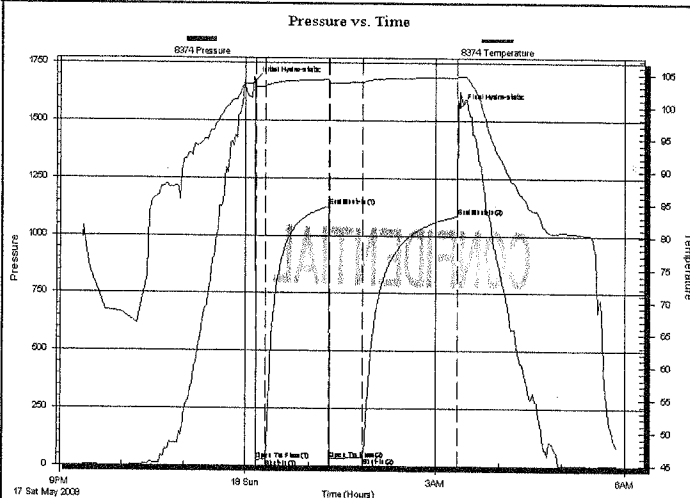
Capacity: 7000.00 psig

Last Calib.: 2008.05.18

Time On Btm: 2008.05.18 @ 00:09:13

Time Off Btm: 2008.05.18 @ 03:22:43

TEST COMMENT: IFP Weak surface blow built to 1/2 "
ISI No blow back
FFP Weak surface blow died in 18 min
FSI No blow back



PRESSURE SUMMARY

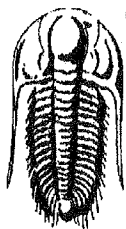
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.20	103.71	Initial Hydro-static
1	23.96	103.12	Open To Flow (1)
10	26.88	103.10	Shut-In(1)
70	1126.09	104.18	End Shut-In(1)
71	30.52	103.71	Open To Flow (2)
101	36.60	103.77	Shut-In(2)
192	1086.12	104.56	End Shut-In(2)
194	1559.60	104.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mw /scum of Oil	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

MAK- J Energy

BD Muir # 6-14

1600 Broadway Ave Ste 1740
Denver CO 80202

14 8 17 Rooks KS

Job Ticket: 31134

DST#: 2

ATTN: Keith Reavis

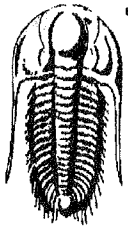
Test Start: 2008.05.17 @ 21:22:13

Tool Information

Drill Pipe:	Length: 3030.00 ft	Diameter: 3.34 inches	Volume: 32.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 33.88 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3254.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			3227.00	
Shut In Tool	5.00			3232.00	
Hydraulic tool	5.00			3237.00	
Jars	5.00			3242.00	
Safety Joint	2.00			3244.00	
Packer	5.00			3249.00	28.00 Bottom Of Top Packer
Packer	5.00			3254.00	
Stubb	1.00			3255.00	
Perforations	1.00			3256.00	
Change Over Sub	1.00			3257.00	
Recorder	0.00	8367	Inside	3257.00	
Recorder	0.00	8374	Inside	3257.00	
Blank Spacing	32.00			3289.00	
Change Over Sub	1.00			3290.00	
Perforations	27.00			3317.00	
Bullnose	3.00			3320.00	66.00 Bottom Packers & Anchor
Total Tool Length:		94.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

MAK- J Energy

BD Muir # 6-14

1600 Broadway Ave Ste 1740
Denver CO 80202

14 8 17 Rooks KS

Job Ticket: 31134

DST#: 2

ATTN: Keith Reavis

Test Start: 2008.05.17 @ 21:22:13

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mw/scum of Oil	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

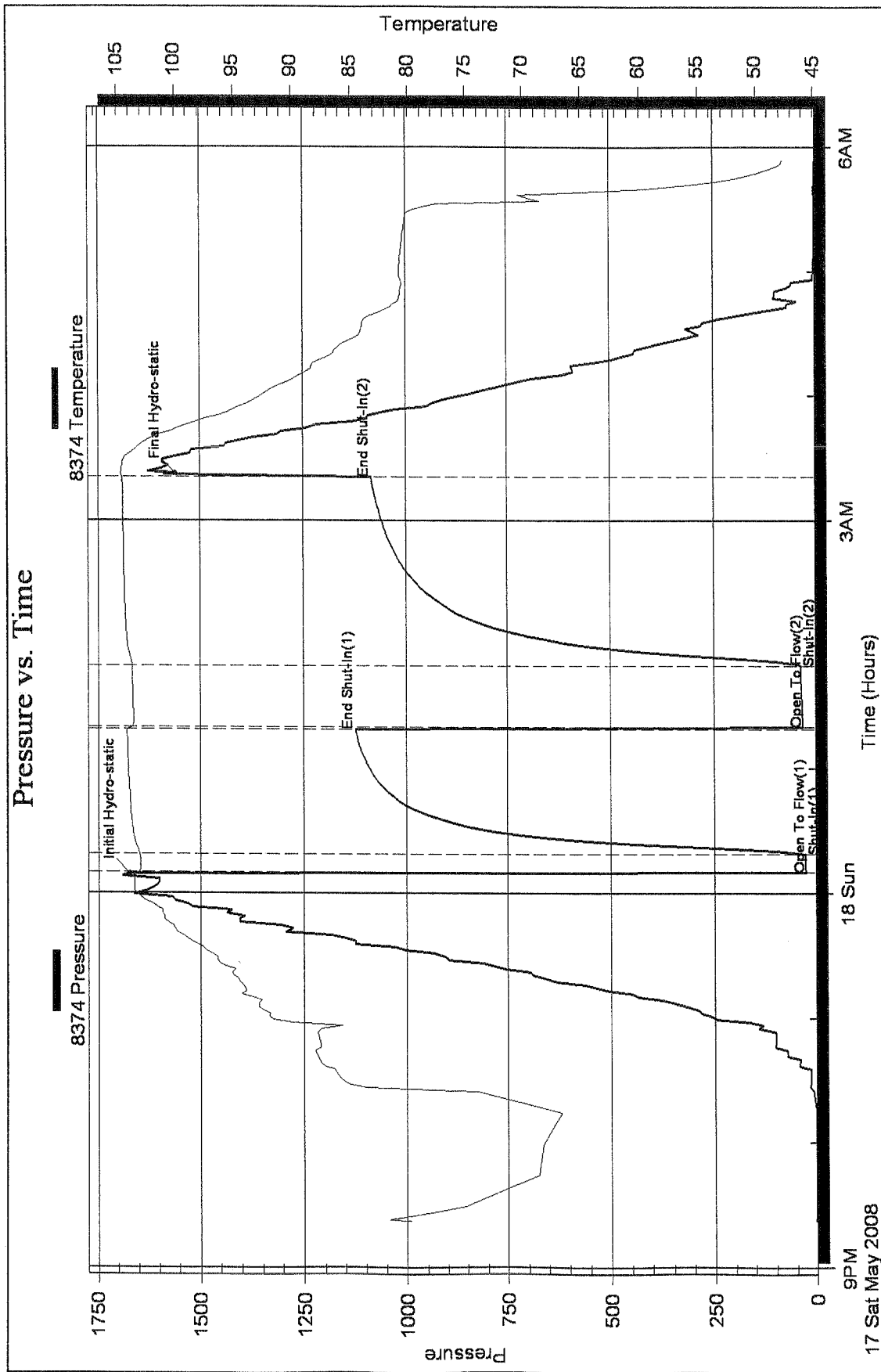
Serial #:

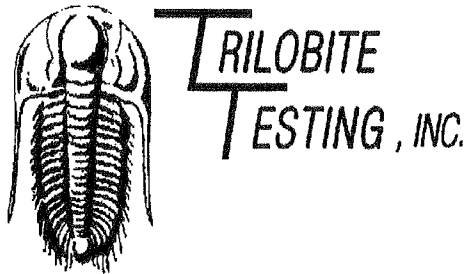
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MAK- J Energy**

1600 Broadway Ave Ste 1740
Denver CO 80202

ATTN: Keith Reavis

14 8 17 Rooks KS

BD Muir # 6-14

Start Date: 2008.05.18 @ 19:15:46

End Date: 2008.05.19 @ 01:49:46

Job Ticket #: 31135

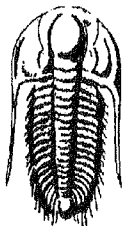
DST #: 3

CONFIDENTIAL

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

MAK- J Energy

1600 Broadway Ave Ste 1740
Denver CO 80202

ATTN: Keith Reavis

BD Muir # 6-14

14 8 17 Rooks KS

Job Ticket: 31135

DST#: 3

Test Start: 2008.05.18 @ 19:15:46

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:16

Time Test Ended: 01:49:46

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3394.00 ft (KB) To 3420.00 ft (KB) (TVD)**

Total Depth: 3420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1960.00 ft (KB)

1954.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8374

Inside

Press@RunDepth: 21.32 psig @ 3395.00 ft (KB)

Start Date: 2008.05.18

End Date:

2008.05.19

Start Time: 19:15:47

End Time:

01:49:46

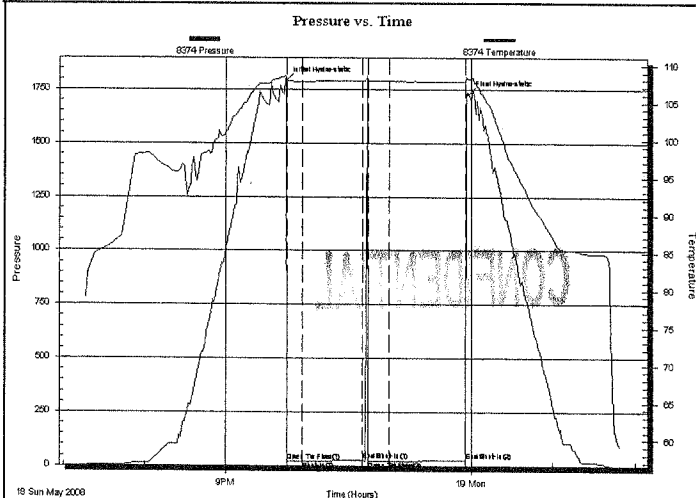
Capacity: 7000.00 psig

Last Calib.: 2008.05.19

Time On Btm: 2008.05.18 @ 21:43:46

Time Off Btm: 2008.05.18 @ 23:57:46

TEST COMMENT: IFP Weak surface blow died 8 min
ISI No blow back
FFP No blow flushed tool no blow
FSI No blow back



PRESSURE SUMMARY

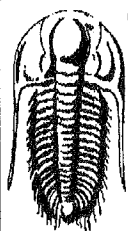
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.41	108.57	Initial Hydro-static
1	20.71	107.96	Open To Flow (1)
12	21.40	107.82	Shut-In(1)
57	26.17	107.86	End Shut-In(1)
61	21.73	107.96	Open To Flow (2)
76	21.32	107.84	Shut-In(2)
132	26.57	107.83	End Shut-In(2)
134	1727.57	108.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

MAK- J Energy

BD Muir # 6-14

1600 Broadway Ave Ste 1740
Denver CO 80202

14 8 17 Rooks KS

Job Ticket: 31135

DST#: 3

ATTN: Keith Reavis

Test Start: 2008.05.18 @ 19:15:46

Tool Information

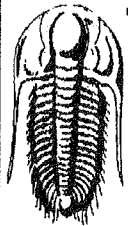
Drill Pipe:	Length: 3180.00 ft	Diameter: 3.34 inches	Volume: 34.46 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	35.50 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3394.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 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			3367.00	
Shut In Tool	5.00			3372.00	
Hydraulic tool	5.00			3377.00	
Jars	5.00			3382.00	
Safety Joint	2.00			3384.00	
Packer	5.00			3389.00	28.00 Bottom Of Top Packer
Packer	5.00			3394.00	
Stubb	1.00			3395.00	
Recorder	0.00	8367	Inside	3395.00	
Recorder	0.00	8374	Inside	3395.00	
Perforations	22.00			3417.00	
Bullnose	3.00			3420.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

MAK- J Energy

BD Muir # 6-14

1600 Broadway Ave Ste 1740
Denver CO 80202

14 8 17 Rooks KS

Job Ticket: 31135

DST#: 3

ATTN: Keith Reavis

Test Start: 2008.05.18 @ 19:15:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 8.99 in³

Resistivity: ohm.m

Salinity: 2900.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

