

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. Suite 900
Denver, CO. 80202

ATTN: Josh Austin / Gary Do

19 18s 31w Scott,KS

Wiechman #12-19-1831

Start Date: 2011.06.08 @ 06:45:00

End Date: 2011.06.08 @ 14:01:45

Job Ticket #: 43197 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

ORIGINAL

Printed: 2011.06.23 @ 14:30:29 Page 1

FIML Natural Resources, LLC

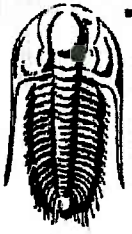
Wiechman #12-19-1831

19 18s 31w Scott,KS

DST # 1

Lansing C-D

2011.06.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43197

DST#: 1

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.08 @ 06:45:00

GENERAL INFORMATION:

Formation: **Lansing C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:03:30
 Time Test Ended: 14:01:45

Test Type: Conventional Bottom Hole
 Tester: Bradley Walter
 Unit No: 40

Interval: **3988.00 ft (KB) To 4020.00 ft (KB) (TVD)**
 Total Depth: 4020.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2975.00 ft (KB)
 2963.00 ft (CF)
 - KB to GR/CF: 12.00 ft

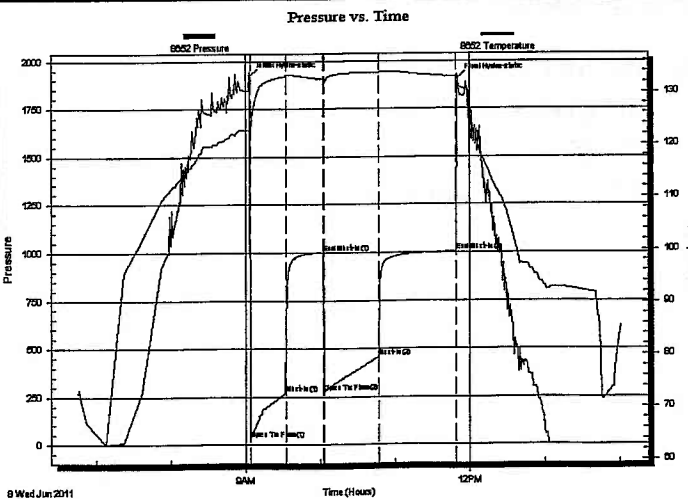
Serial #: 8652

Inside

Press@RunDepth: 456.02 psig @ 3989.00 ft (KB)
 Start Date: 2011.06.08 End Date: 2011.06.08
 Start Time: 06:45:05 End Time: 14:01:44

Capacity: 8000.00 psig
 Last Calib.: 2011.06.08
 Time On Btm: 2011.06.08 @ 09:03:15
 Time Off Btm: 2011.06.08 @ 11:50:30

TEST COMMENT: IF: BOB @ 9 minutes.
 IS: No return blow.
 FF: BOB 14 minutes.
 FS: No return blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.24	122.88	Initial Hydro-static
1	29.73	121.78	Open To Flow (1)
29	268.46	133.00	Shut-In(1)
59	1002.12	132.43	End Shut-In(1)
60	273.57	132.04	Open To Flow (2)
104	456.02	133.71	Shut-In(2)
167	1003.08	132.85	End Shut-In(2)
168	1908.36	132.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
488.00	mcw 5m 95w	2.98
369.00	omcw 5o 20m 75w	3.67
3.00	Oil 100%	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43197

DST#: 1

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.08 @ 06:45:00

Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.20 inches	Volume: 36.01 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: 22000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 104000.0 lb
		Total Volume:	37.84 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	3988.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 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			3968.00	
Shut In Tool	5.00			3973.00	
Hydraulic tool	5.00			3978.00	
Packer	5.00			3983.00	21.00 Bottom Of Top Packer
Packer	5.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8360	Outside	3989.00	
Recorder	0.00	8652	Inside	3989.00	
Perforations	28.00			4017.00	
Bullnose	3.00			4020.00	32.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT **FLUID SUMMARY**

FIML Natural Resources, LLC 410 17th St. Suite 900 Denver, CO. 80202 ATTN: Josh Austin / Gary Do0	Wiechman #12-19-1831 19 18s 31w Scott,KS Job Ticket: 43197 DST#: 1 Test Start: 2011.06.08 @ 06:45:00
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Mud and Cushion Information

Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 53.00 sec/qt Water Loss: 6.37 in ³ Resistivity: ohm.m Salinity: 1400.00 ppm Filter Cake: 1.00 inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: 0 deg API Water Salinity: 44000 ppm
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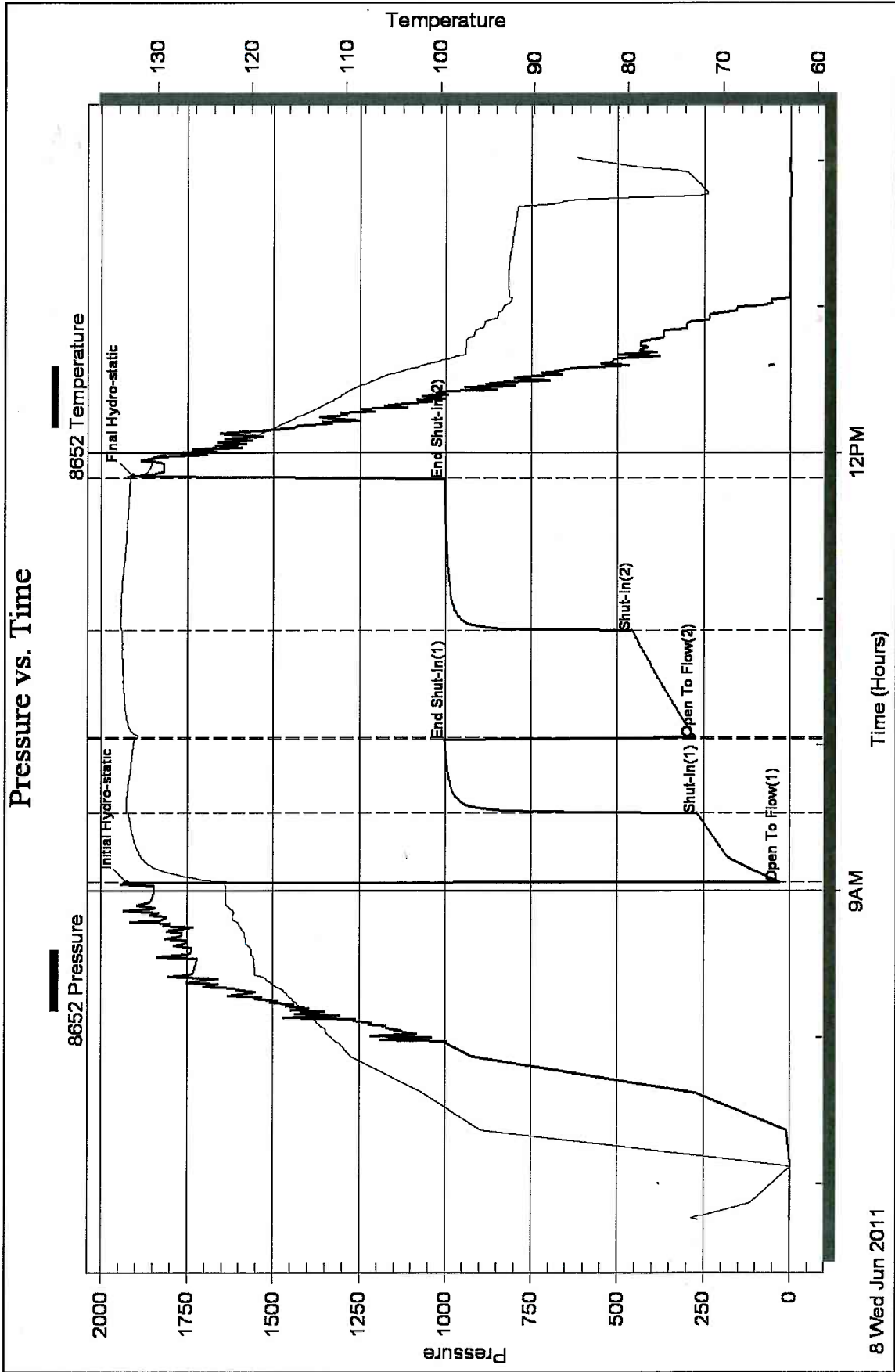
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
488.00	mcw 5m 95w	2.983
369.00	omcw 5o 20m 75w	3.671
3.00	Oil 100%o	0.030

Total Length: 860.00 ft Total Volume: 6.684 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .126 @ 88 F = 44000ppm

Pressure vs. Time

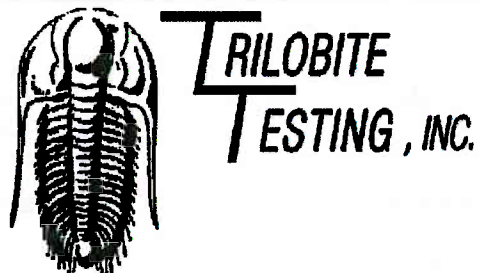


8 Wed Jun 2011

12PM

Time (Hours)

9AM



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. Suite 900
Denver, CO. 80202

ATTN: Josh Austin / Gary Do

19 18s 31w Scott,KS

Wiechman #12-19-1831

Start Date: 2011.06.09 @ 07:13:00

End Date: 2011.06.09 @ 12:36:30

Job Ticket #: 43198 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

FIML Natural Resources, LLC

410 17th St. Suite 900
Denver, CO. 80202

ATTN: Josh Austin / Gary DoD

Wiechman #12-19-1831

19 18s 31w Scott, KS

Job Ticket: 43198

DST#: 2

Test Start: 2011.06.09 @ 07:13:00

GENERAL INFORMATION:

Formation: **Lansing H-I**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 08:51:45
 Time Test Ended: 12:36:30

Test Type: **Conventional Bottom Hole**
 Tester: **Bradley Walter**
 Unit No: **40**

Interval: **4147.00 ft (KB) To 4190.00 ft (KB) (TVD)**
 Total Depth: **4190.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2975.00 ft (KB)**
2963.00 ft (CF)
 KB to GR/CF: **12.00 ft**

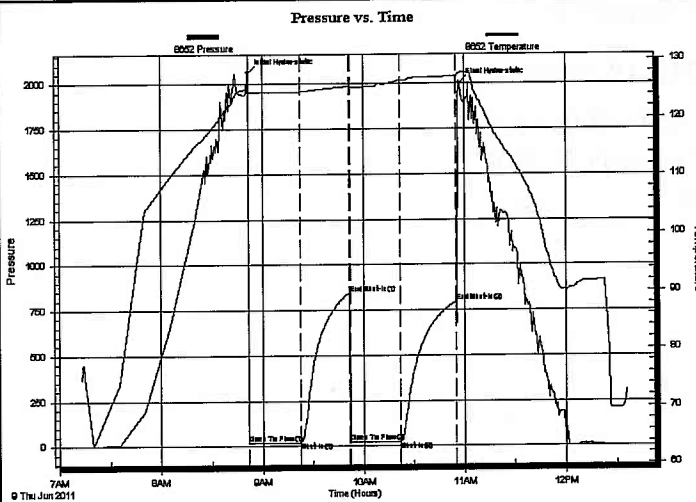
Serial #: 8652

Inside

Press@RunDepth: **23.31 psig @ 4148.00 ft (KB)**
 Start Date: **2011.06.09** End Date: **2011.06.09**
 Start Time: **07:13:05** End Time: **12:36:29**

Capacity: **8000.00 psig**
 Last Calib.: **2011.06.09**
 Time On Btm: **2011.06.09 @ 08:51:30**
 Time Off Btm: **2011.06.09 @ 10:57:00**

TEST COMMENT: IF: Surface blow, Died @ 14 minutes.
 IS: No return blow.
 FF: No blow.
 FS: No return blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.59	124.84	Initial Hydro-static
1	16.45	124.11	Open To Flow (1)
31	21.23	124.40	Shut-In(1)
60	843.28	125.34	End Shut-In(1)
61	20.92	125.04	Open To Flow (2)
91	23.31	126.28	Shut-In(2)
124	794.04	127.04	End Shut-In(2)
126	2002.03	127.55	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43198

DST#: 2

ATTN: Josh Austin / Gary Do0

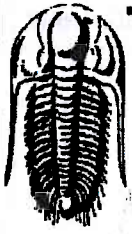
Test Start: 2011.06.09 @ 07:13:00

Tool Information

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.20 inches	Volume: 37.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 110000.0 lb
		<u>Total Volume:</u>	<u>39.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4147.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	64.00 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			4127.00	
Shut In Tool	5.00			4132.00	
Hydraulic tool	5.00			4137.00	
Packer	5.00			4142.00	21.00 Bottom Of Top Packer
Packer	5.00			4147.00	
Stubb	1.00			4148.00	
Recorder	0.00	8360	Outside	4148.00	
Recorder	0.00	8652	Inside	4148.00	
Perforations	39.00			4187.00	
Bullnose	3.00			4190.00	43.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43198

DST#: 2

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.09 @ 07:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

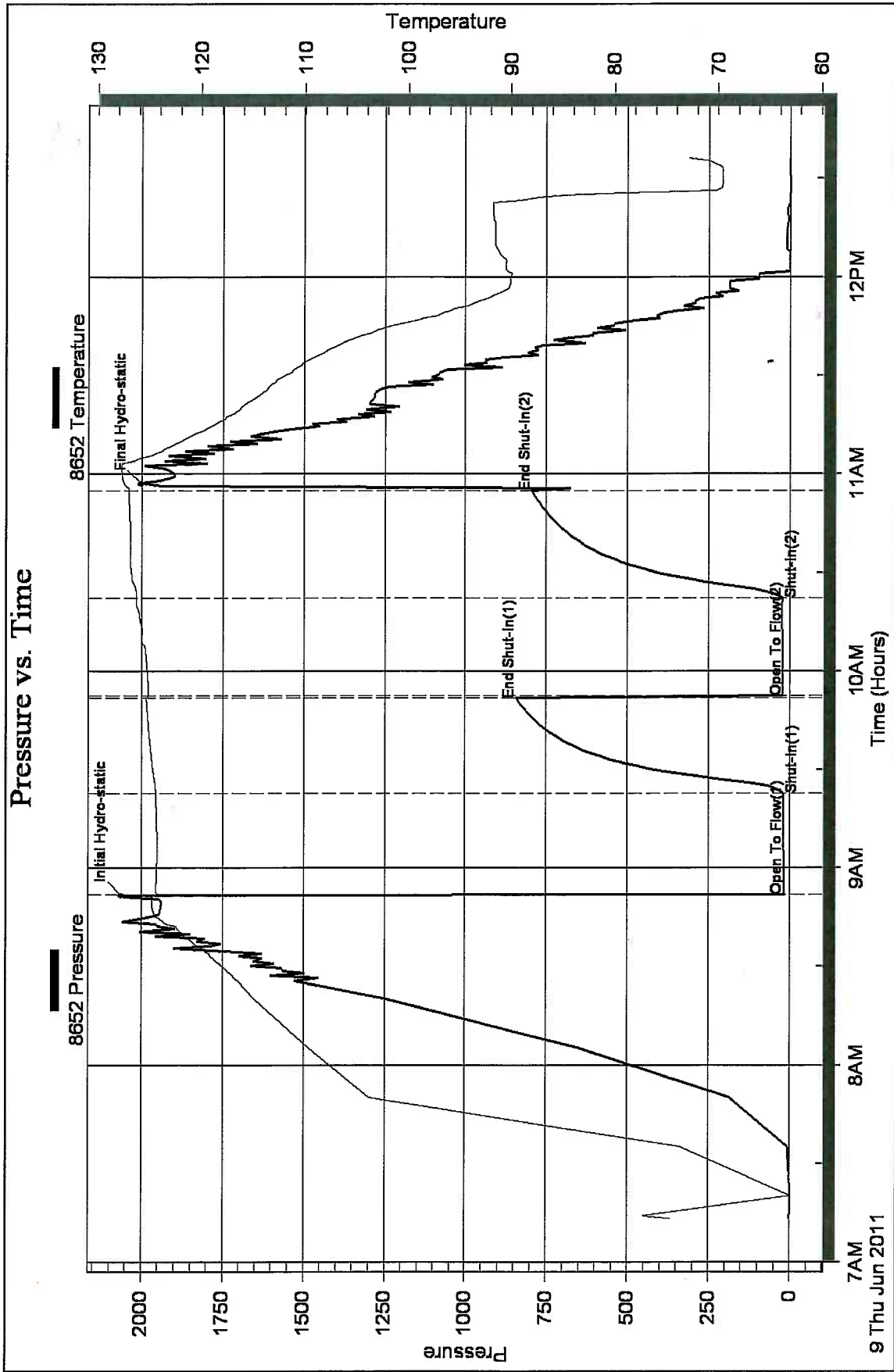
Serial #:

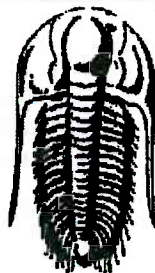
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. Suite 900
Denver, CO. 80202

ATTN: Josh Austin / Gary Do

19 18s 31w Scott,KS

Wiechman #12-19-1831

Start Date: 2011.06.10 @ 00:48:00

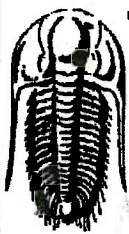
End Date: 2011.06.10 @ 08:20:15

Job Ticket #: 43199 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43199

DST#: 3

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.10 @ 00:48:00

GENERAL INFORMATION:

Formation: **Lansing K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:00

Time Test Ended: 08:20:15

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: **4234.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Total Depth: 4290.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2975.00 ft (KB)

2963.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8652

Inside

Press@RunDepth: 759.93 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.10

End Date:

2011.06.10

Last Calib.: 2011.06.10

Start Time: 00:48:05

End Time:

08:20:14

Time On Btm: 2011.06.10 @ 03:49:45

Time Off Btm: 2011.06.10 @ 05:51:15

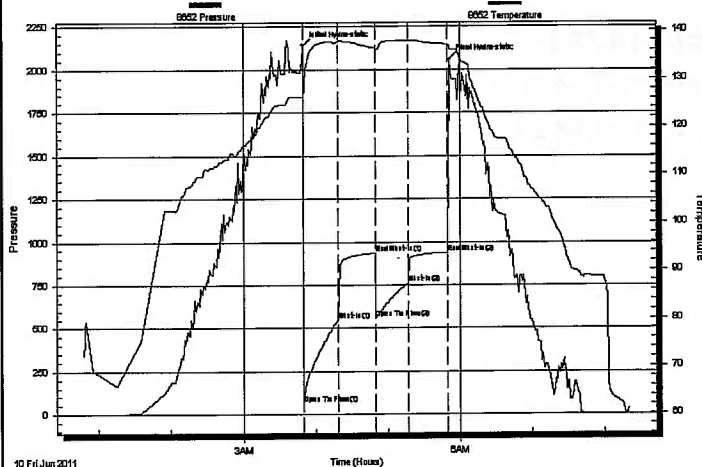
TEST COMMENT: IF: BOB @ 3 minutes.

IS: No return blow.

FF: BOB @ 4 1/2 minutes.

FS: No return blow.

Pressure vs. Time



PRESSURE SUMMARY

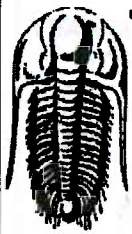
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.97	126.26	Initial Hydro-static
1	65.67	125.20	Open To Flow (1)
29	548.29	137.69	Shut-In(1)
60	934.69	136.39	End Shut-In(1)
61	557.61	136.22	Open To Flow (2)
87	759.93	137.86	Shut-In(2)
120	937.34	137.06	End Shut-In(2)
122	2060.08	136.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	mcw 3m 97w	13.75

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43199

DST#: 3

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.10 @ 00:48:00

Tool Information

Drill Pipe:	Length: 3872.00 ft	Diameter: 3.20 inches	Volume: 38.52 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	40.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4234.00 ft			Final 87000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4214.00	
Shut In Tool	5.00			4219.00	
Hydraulic tool	5.00			4224.00	
Packer	5.00			4229.00	21.00 Bottom Of Top Packer
Packer	5.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	8360	Outside	4235.00	
Recorder	0.00	8652	Inside	4235.00	
Perforations	18.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	32.00			4286.00	
Change Over Sub	1.00			4287.00	
Bullnose	3.00			4290.00	56.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43199

DST#: 3

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.10 @ 00:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1570.00	mcw 3m 97w	13.746

Total Length: 1570.00 ft Total Volume: 13.746 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

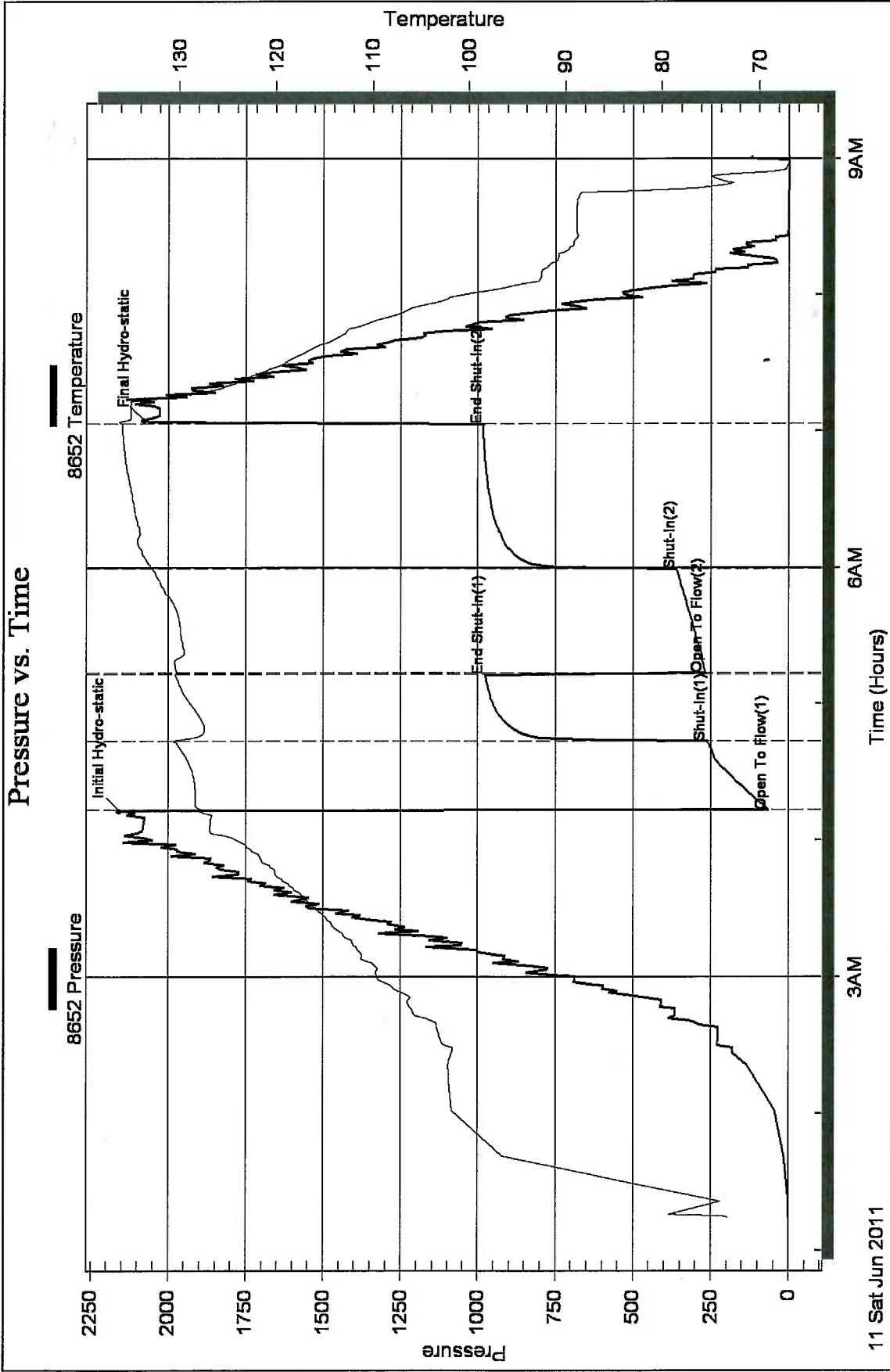
Serial #:

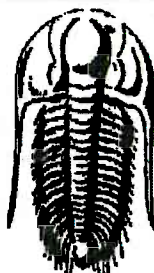
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .187 @ 63 f = 46,000ppm

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. Suite 900
Denver, CO. 80202

ATTN: Josh Austin / Gary Do

19 18s 31w Scott,KS

Wiechman #12-19-1831

Start Date: 2011.06.11 @ 01:14:00

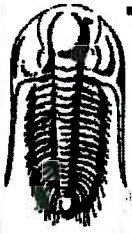
End Date: 2011.06.11 @ 09:01:30

Job Ticket #: 43200 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

FIML Natural Resources, LLC

410 17th St. Suite 900
Denver, CO. 80202

ATTN: Josh Austin / Gary Do0

Wiechman #12-19-1831

19 18s 31w Scott,KS

Job Ticket: 43200

DST#: 4

Test Start: 2011.06.11 @ 01:14:00

GENERAL INFORMATION:

Formation: **Marmaton-Altamont**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 04:13:15
 Time Test Ended: 09:01:30

Test Type: **Conventional Bottom Hole**
 Tester: **Bradley Walter**
 Unit No: **40**

Interval: **4290.00 ft (KB) To 4390.00 ft (KB) (TVD)**
 Total Depth: **4390.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2975.00 ft (KB)**
2963.00 ft (CF)
 KB to GR/CF: **12.00 ft**

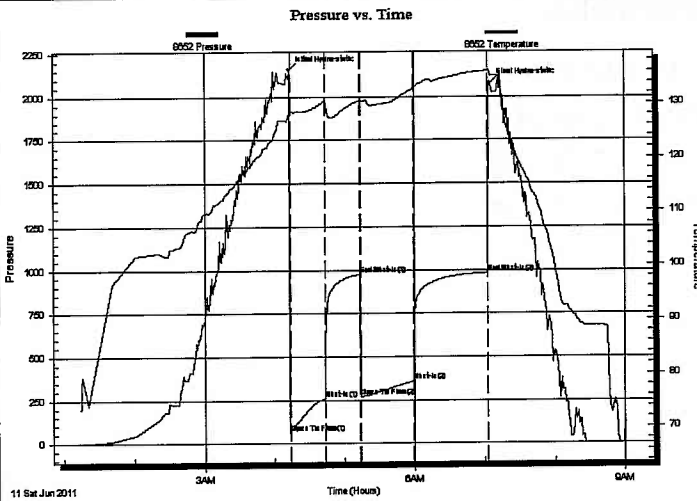
Serial #: 8652

Inside

Press@RunDepth: **358.52 psig @ 4291.00 ft (KB)**
 Start Date: **2011.06.11** End Date: **2011.06.11**
 Start Time: **01:14:05** End Time: **09:01:29**

Capacity: **8000.00 psig**
 Last Calib.: **2011.06.11**
 Time On Btm: **2011.06.11 @ 04:12:45**
 Time Off Btm: **2011.06.11 @ 07:04:45**

TEST COMMENT: IF: BOB @ 20 minutes.
 IS: No return blow.
 FF: BOB @ 24 minutes.
 FS: No return blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.02	128.13	Initial Hydro-static
1	65.09	127.59	Open To Flow (1)
31	259.78	130.63	Shut-In(1)
61	976.00	130.40	End Shut-In(1)
61	269.61	130.23	Open To Flow (2)
107	358.52	132.75	Shut-In(2)
171	981.15	135.90	End Shut-In(2)
172	2077.65	135.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 40m 60w	4.40

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43200

DST#: 4

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.11 @ 01:14:00

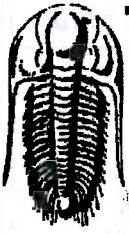
Tool Information

Drill Pipe:	Length: 3905.00 ft	Diameter: 3.20 inches	Volume: 38.84 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 40.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4290.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	121.00 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			4270.00	
Shut In Tool	5.00			4275.00	
Hydraulic tool	5.00			4280.00	
Packer	5.00			4285.00	21.00 Bottom Of Top Packer
Packer	5.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	8360	Outside	4291.00	
Recorder	0.00	8652	Inside	4291.00	
Perforations	13.00			4304.00	
Change Over Sub	1.00			4305.00	
Drill Pipe	64.00			4369.00	
Change Over Sub	1.00			4370.00	
Perforations	17.00			4387.00	
Bullnose	3.00			4390.00	100.00 Bottom Packers & Anchor

Total Tool Length: 121.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

Wiechman #12-19-1831

410 17th St. Suite 900
Denver, CO. 80202

19 18s 31w Scott,KS

Job Ticket: 43200

DST#: 4

ATTN: Josh Austin / Gary Do0

Test Start: 2011.06.11 @ 01:14:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.79 in³
Resistivity: ohm.m
Salinity: 1900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 31000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	mcw 40m 60w	4.396

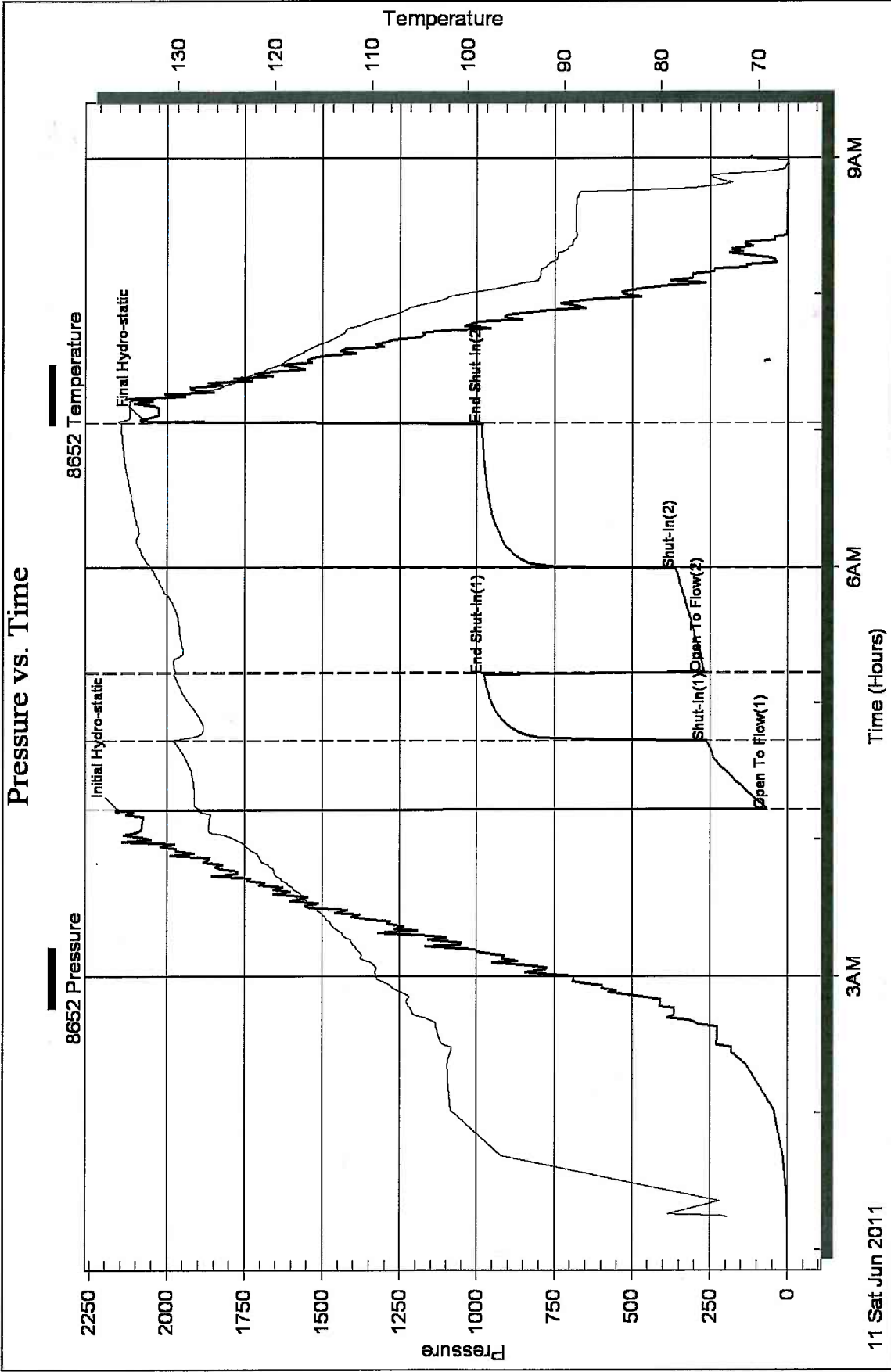
Total Length: 630.00 ft Total Volume: 4.396 bbl

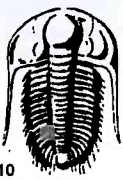
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .224@ 69 F = 31000ppm

Pressure vs. Time





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JUN 20 2011

Test Ticket

NO. 43197

Well Name & No. Wiechman #12-14-1831 BY: _____ Test No. 1 Date 6/8/11
 Company FIML Natural Resources, LLC Elevation 2975 KB 2963 GL _____
 Address 410 17th St Suite 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke / Josh Austin Rig 412 #1
 Location: Sec. 19 Twp. 18s Rge. 31w Co. Scott State Ks

Interval Tested 3988 4020 Zone Tested Lansing C-D
 Anchor Length 32 Drill Pipe Run 3620 Mud Wt. 8.8
 Top Packer Depth 3983 Drill Collars Run 372 Vis 53
 Bottom Packer Depth 3988 Wt. Pipe Run 0 WL 6.4
 Total Depth 4020 Chlorides 1400 ppm System LCM 4#
 Blow Description IF: BOB @ 9 minutes
ISI: No return blow.
FF: BOB @ 14 minutes.
FSI: No return blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>OIL</u>	<u>100</u>			
<u>369</u>	<u>omcw</u>	<u>5</u>	<u>75</u>	<u>20</u>	
<u>488</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 860 BHT 133 Gravity — API RW .126 @ 88 °F Chlorides 44000 ppm

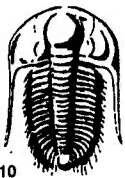
(A) Initial Hydrostatic <u>1924</u>	<input checked="" type="checkbox"/> Test <u>1225-</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>30</u>	<input type="checkbox"/> Jars _____	T-Started <u>0645</u>
(C) First Final Flow <u>268</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0901</u>
(D) Initial Shut-In <u>1002</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>1046</u>
(E) Second Initial Flow <u>274</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1401</u>
(F) Second Final Flow <u>456</u>	<input checked="" type="checkbox"/> Mileage <u>12 R/T 16.80</u>	Comments _____
(G) Final Shut-In <u>1003</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1908</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>150-</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1391.80</u>
	<input checked="" type="checkbox"/> Accessibility <u>150-</u>	MP/DST Dis't _____
	Sub Total <u>1241.80</u>	

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or 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.



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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED JUN 20 2011

Test Ticket

NO. 43198

Well Name & No. Wiechman # 12-19-1831 Test No. 2 Date 6/9/11
 Company FIML Natural Resources, LLC Elevation 2975 KB 2963 GL
 Address 410 17th St Suite 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke / Josh Austin Rig H2 #1
 Location: Sec. 19 Twp. 18 S Rge. 31 W Co. Scott State KS

Interval Tested 4147 4190 Zone Tested Lansing H-I
 Anchor Length 43 Drill Pipe Run 3780 Mud Wt. 9.2
 Top Packer Depth 4142 Drill Collars Run 372 Vis 56
 Bottom Packer Depth 4147 Wt. Pipe Run 0 WL 7.2
 Total Depth 4190 Chlorides 1700 ppm System LCM 4#
 Blow Description IF: Surface blow died @ 14 minutes,
ISI: No return blow
FF: No blow
FSI: No return blow

Rec	Feet of	%gas	%oil	%water	%mud
10	Mud			100	

Rec Total 10 BHT 127 Gravity - API RW - @ - °F Chlorides - ppm

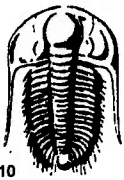
(A) Initial Hydrostatic 2062 Test 1225 T-On Location 0620
 (B) First Initial Flow 16 Jars _____ T-Started 0713
 (C) First Final Flow 21 Safety Joint _____ T-Open 0852
 (D) Initial Shut-In 8 43 Circ Sub NC T-Pulled 10 52
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 12 08
 (F) Second Final Flow 23 Mileage 12 R/T 16,88 Comments _____
 (G) Final Shut-In 7 94 Sampler _____
 (H) Final Hydrostatic 20 62 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 150
 Day Standby _____ Total 1391.80
 Accessibility 150 MR/DST Disc't _____
 Sub Total 1241.80

Approved By [Signature] Our Representative [Signature]

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Test Ticket

NO. 43199

BY: _____

Well Name & No. Wiechman # 12-19-1831 Test No. 3 Date 6/10/11

Company FIML Natural Resources, LLC Elevation 2975 KB 2963 GL _____

Address 410 17th St. Suite 900 Denver, Co 80202

Co. Rep / Geo. Gary Doke / Josh Austin Rig H2 #1

Location: Sec. 19 Twp. 18s Rge. 31w Co. Scott State Ks

Interval Tested ~~4284~~ 4234-4290 Zone Tested Lansing K-L

Anchor Length 56 Drill Pipe Run 3872 Mud Wt. 9.2

Top Packer Depth 422' Drill Collars Run 372 Vis 53

Bottom Packer Depth 4234 Wt. Pipe Run 0 WL 72

Total Depth 4290 Chlorides 1700 ppm System LCM 4#

Blow Description IF! BOB @ 3 min.

ISI! No return blow.

PF! BOB @ 4 1/2 minutes.

FSI! No return blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1570</u>	<u>MCW</u>			<u>97%</u>	<u>3</u>
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

Rec Total 1570 BHT 137 Gravity — API RW .187 @ 63 °F Chlorides 46,000 ppm

(A) Initial Hydrostatic 2141 Test 1225' T-On Location 0030

(B) First Initial Flow 66 Jars _____ T-Started 0048

(C) First Final Flow 548 Safety Joint _____ T-Open 0348

(D) Initial Shut-In 935 Circ Sub NC T-Pulled 0548

(E) Second Initial Flow 358 Hourly Standby _____ T-Out 0820

(F) Second Final Flow 760 Mileage 12 1/4 16⁸⁰ Comments _____

(G) Final Shut-In 937 Sampler _____

(H) Final Hydrostatic 2060 Straddle _____ Ruined Shale Packer _____

Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____

Initial Shut-In 30 Extra Recorder _____

Final Flow 30 Day Standby _____

Final Shut-In 30 Accessibility 150 Sub Total 1391.80 Total 1391.80

Sub Total 1241.80 MP/DST Disc _____

Approved By [Signature]

Our Representative [Signature]

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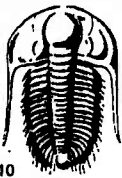
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JUN 20 2011

Test Ticket

NO. 43200

Well Name & No. Wiechman # 12-19-1831 Test No. 4 Date 6/11/11
 Company FIML Natural Resources, LLC Elevation 2975 KB 2963 GL
 Address 410 17th St. Suite 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke / Josh Austin Rig H2 #1
 Location: Sec. 19 Twp. 18s Rge. 31w Co. Scott State Ks

Interval Tested 4290 - 4390 Zone Tested Altamont - Marmaton
 Anchor Length 100 Drill Pipe Run 3905 Mud Wt. 9.2
 Top Packer Depth 4285 Drill Collars Run 372 Vis 56
 Bottom Packer Depth 4290 Wt. Pipe Run 0 WL 7.8
 Total Depth 4390 Chlorides 1900 ppm System LCM 4#

Blow Description IF: BOB @ 20 minutes,
ISF: No return blow,
FF: BOB @ 24 minutes,
FSF: No return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>mcw (Trace OIL Scum)</u>			<u>60</u>	<u>40</u>
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

Rec Total 630 BHT 136 Gravity API RW, 22.4 @ 69 °F Chlorides 31000 ppm

(A) Initial Hydrostatic 2156 Test 1225' T-On Location 9030
 (B) First Initial Flow 65 Jars _____ T-Started 0114
 (C) First Final Flow 260 Safety Joint _____ T-Open 0413
 (D) Initial Shut-In 976 Circ Sub MC T-Pulled 0658
 (E) Second Initial Flow 270 Hourly Standby _____ T-Out 0901
 (F) Second Final Flow 359 Mileage 12 RT 16.80 Comments _____
 (G) Final Shut-In 981 Sampler _____
 (H) Final Hydrostatic 2078 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 150
 Final Flow 45 Day Standby _____ Total 1391.80
 Final Shut-In 60 Accessibility 150' MP/DST Disc't _____
 Sub Total 1241.80

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