

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

15-20s-27w Lane,KS

Luebbers # 13D-15

Start Date: 2011.09.03 @ 17:55:30

End Date: 2011.09.04 @ 00:45:30

Job Ticket #: 43350 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL

Printed: 2011.09.15 @ 10:39:50

FIML Natural Resources

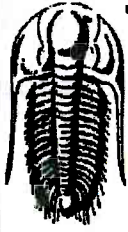
Luebbers # 13D-15

15-20s-27w Lane,KS

DST # 1

Marmaton B-C

2011.09.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

Luebbers # 13D-15

15-20s-27w Lane, KS

Job Ticket: 43350

DST#: 1

Test Start: 2011.09.03 @ 17:55:30

GENERAL INFORMATION:

Formation: **Marmaton B-C**

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

Time Tool Opened: 20:11:15

Time Test Ended: 00:45:30

Interval: **4300.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: **4340.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Shane McBride**

Unit No: **55**

Reference Elevations: **2625.00 ft (KB)**

2614.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667

Outside

Press@RunDepth: **226.03 psig @ 4301.00 ft (KB)**

Start Date: **2011.09.03**

End Date:

2011.09.04

Start Time: **17:55:30**

End Time:

00:32:30

Capacity: **8000.00 psig**

Last Calib.: **2011.09.04**

Time On Btm: **2011.09.03 @ 20:10:45**

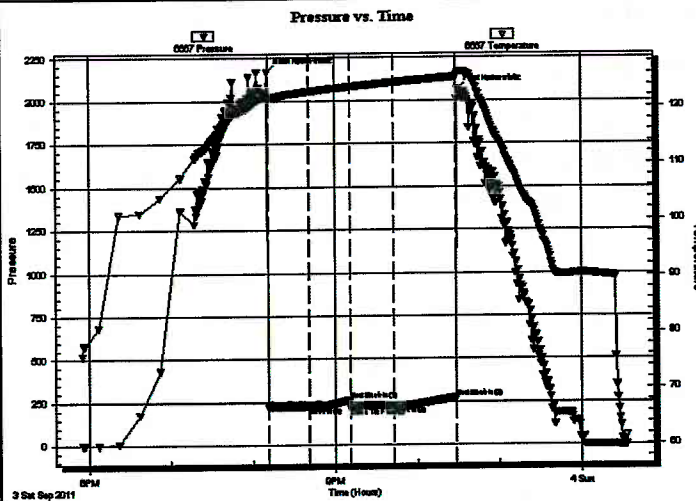
Time Off Btm: **2011.09.03 @ 22:29:30**

TEST COMMENT: Weak 1/8" in blow died in 5 min.

No return

No blow

No return



PRESSURE SUMMARY

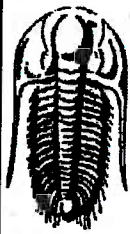
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.88	121.89	Initial Hydro-static
1	218.59	121.57	Open To Flow (1)
30	223.90	122.72	Shut-In(1)
61	261.67	123.57	End Shut-In(1)
61	215.03	123.56	Open To Flow (2)
92	226.03	124.29	Shut-In(2)
138	274.86	125.25	End Shut-In(2)
139	2064.03	125.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	mud 100%m	1.82

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 43350

DST#: 1

ATTN: Gary Doke/Jim Musgro

Test Start: 2011.09.03 @ 17:55:30

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	mud 100%m	1.820

Total Length: 370.00 ft Total Volume: 1.820 bbl

Num Fluid Samples: 0

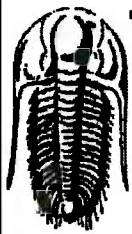
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Hole was sticky taking weight from 2200'-to-2500'



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 43350

DST#: 1

ATTN: Gary Doke/Jim Musgro

Test Start: 2011.09.03 @ 17:55:30

Tool Information

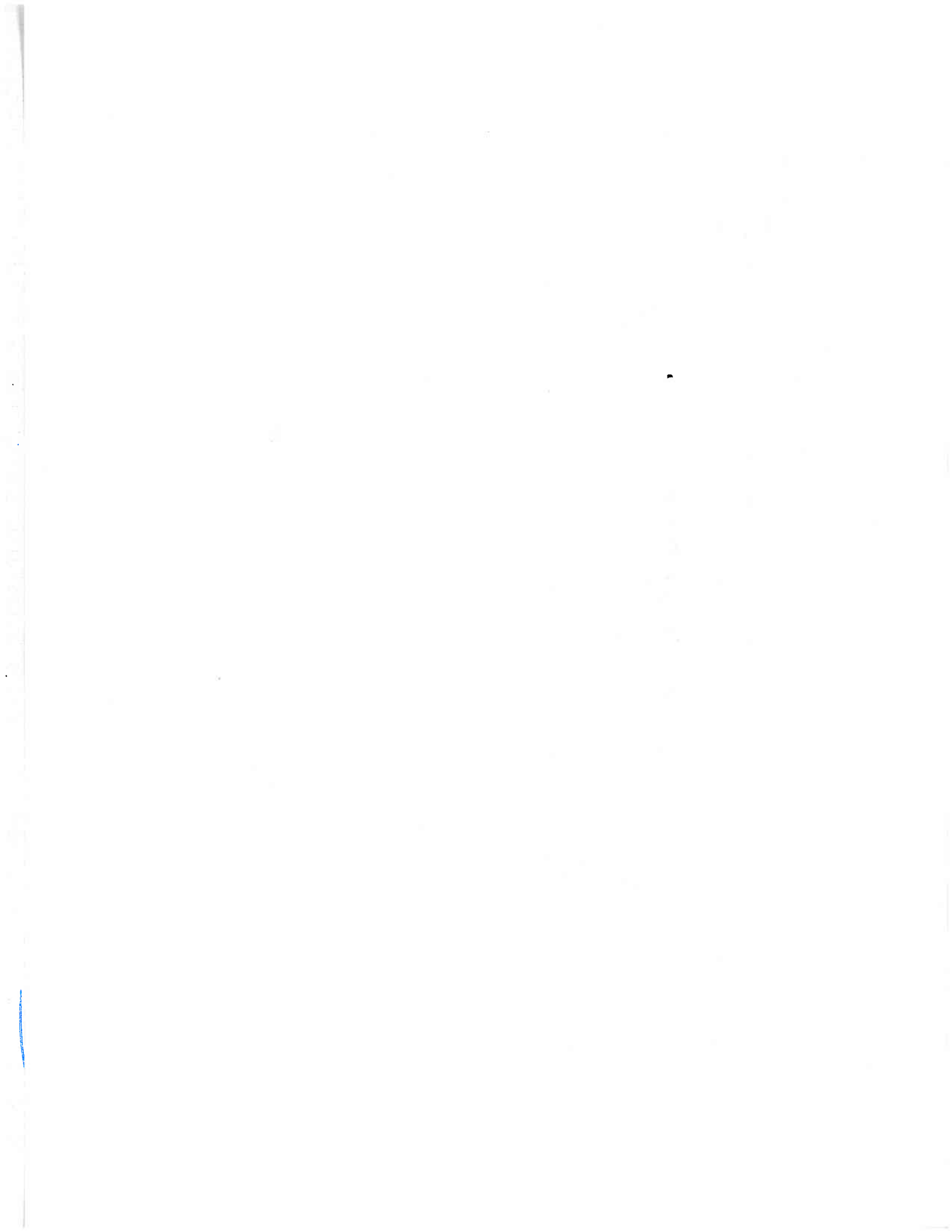
Drill Pipe:	Length: 3923.00 ft	Diameter: 3.80 inches	Volume: 55.03 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume:	56.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4300.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

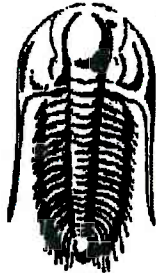
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00			4291.00	
Packer	5.00			4296.00	20.00 Bottom Of Top Packer
Packer	4.00			4300.00	
Stubb	1.00			4301.00	
Recorder	0.00	6771	Inside	4301.00	
Recorder	0.00	6667	Outside	4301.00	
Perforations	2.00			4303.00	
Change Over Sub	1.00			4304.00	
Drill Pipe	30.00			4334.00	
Change Over Sub	1.00			4335.00	
Bullnose	5.00			4340.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

15-20s-27w Lane,KS

Luebbers # 13D-15

Start Date: 2011.09.04 @ 08:35:34

End Date: 2011.09.04 @ 14:50:34

Job Ticket #: 44377 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.09.15 @ 10:40:38

FIML Natural Resources

Luebbers # 13D-15

15-20s-27w Lane,KS

DST # 2

Marmaton

2011.09.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

Luebbers # 13D-15

15-20s-27w Lane,KS

Job Ticket: 44377

DST#: 2

Test Start: 2011.09.04 @ 08:35:34

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:36:04

Time Test Ended: 14:50:34

Interval: **4300.00 ft (KB) To 4375.00 ft (KB) (TVD)**

Total Depth: **4375.00 ft (KB) (TVD)**

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

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Reference Elevations: 2625.00 ft (KB)

2614.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667

Outside

Press@RunDepth: 18.33 psig @ 4301.00 ft (KB)

Start Date: 2011.09.04

End Date:

2011.09.04

Start Time: 08:35:34

End Time:

14:38:34

Capacity: 8000.00 psig

Last Calib.: 2011.09.04

Time On Btm: 2011.09.04 @ 10:35:49

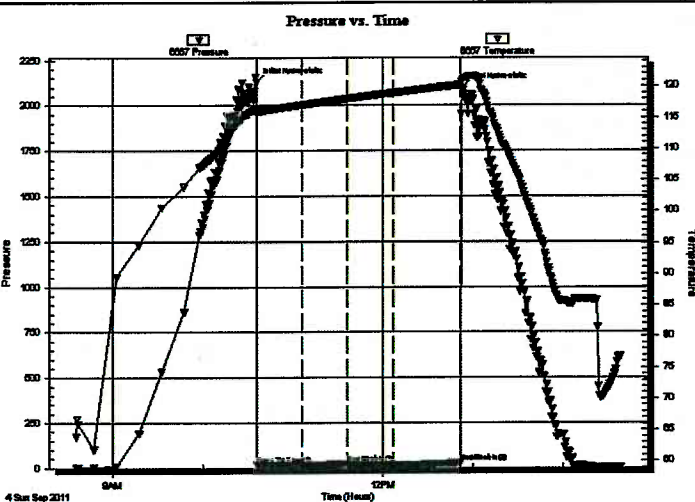
Time Off Btm: 2011.09.04 @ 12:52:49

TEST COMMENT: 1/4" in blow died in 12 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.64	116.28	Initial Hydro-static
1	21.07	115.70	Open To Flow (1)
30	19.90	116.96	Shut-In(1)
60	25.07	117.95	End Shut-In(1)
61	19.31	117.97	Open To Flow (2)
91	18.33	118.91	Shut-In(2)
136	29.85	120.16	End Shut-In(2)
137	2099.69	120.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 44377

DST#: 2

ATTN: Gary Doke/Jim Musgro

Test Start: 2011.09.04 @ 08:35:34

Tool Information

Drill Pipe:	Length: 3924.00 ft	Diameter: 3.80 inches	Volume: 55.04 bbl	Tool Weight: 2500.00 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume:	56.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4300.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 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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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00			4291.00	
Packer	5.00			4296.00	20.00 Bottom Of Top Packer
Packer	4.00			4300.00	
Stubb	1.00			4301.00	
Recorder	0.00	6771	Inside	4301.00	
Recorder	0.00	6667	Outside	4301.00	
Perforations	5.00			4306.00	
Change Over Sub	1.00			4307.00	
Drill Pipe	62.00			4369.00	
Change Over Sub	1.00			4370.00	
Bullnose	5.00			4375.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 44377

DST#: 2

ATTN: Gary Duke/Jim Musgro

Test Start: 2011.09.04 @ 08:35:34

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.93 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

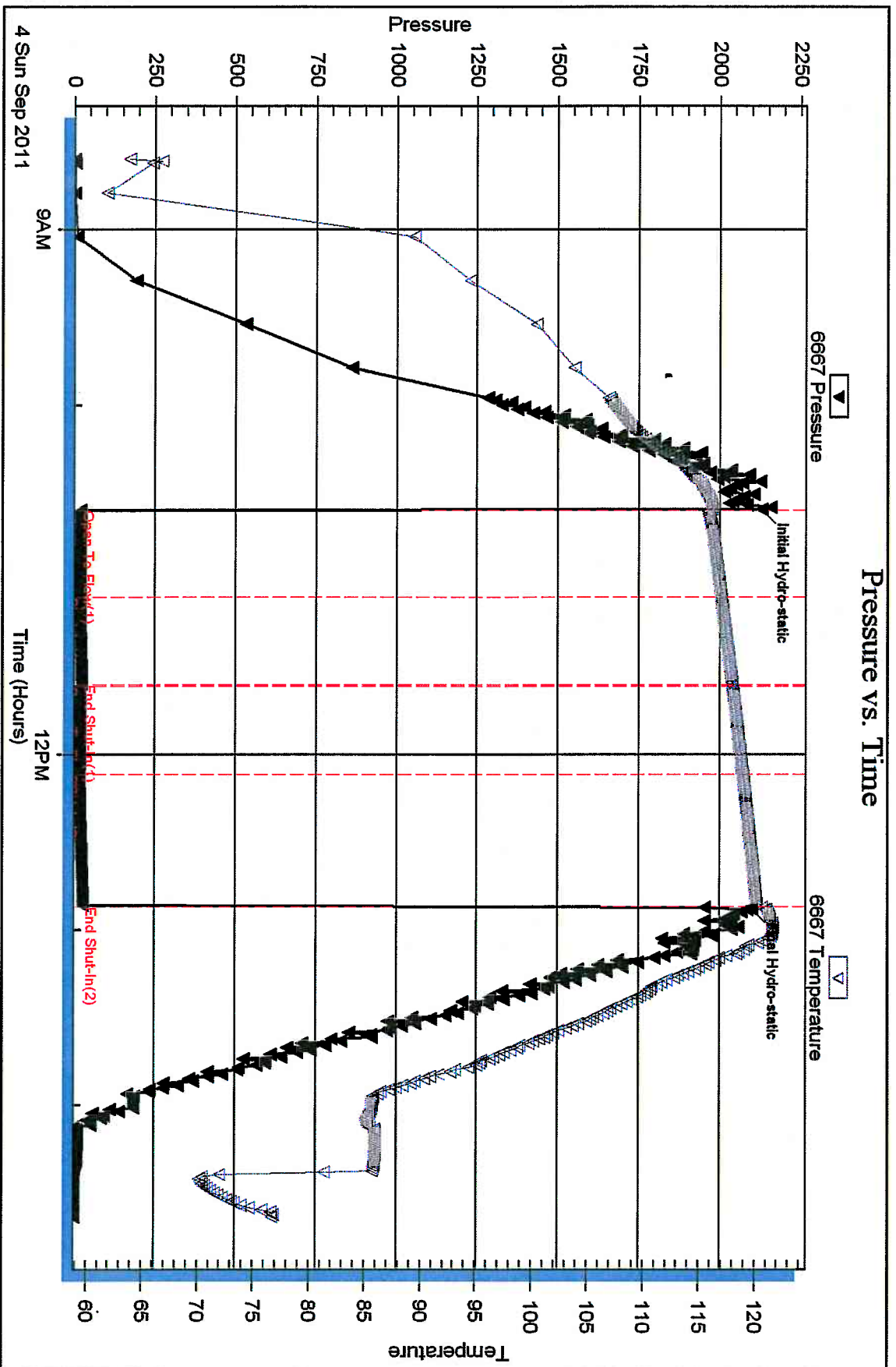
Recovery Comments:

Serial #: 6667

Outside FIML Natural Resources

15-20s-27w Lane, KS

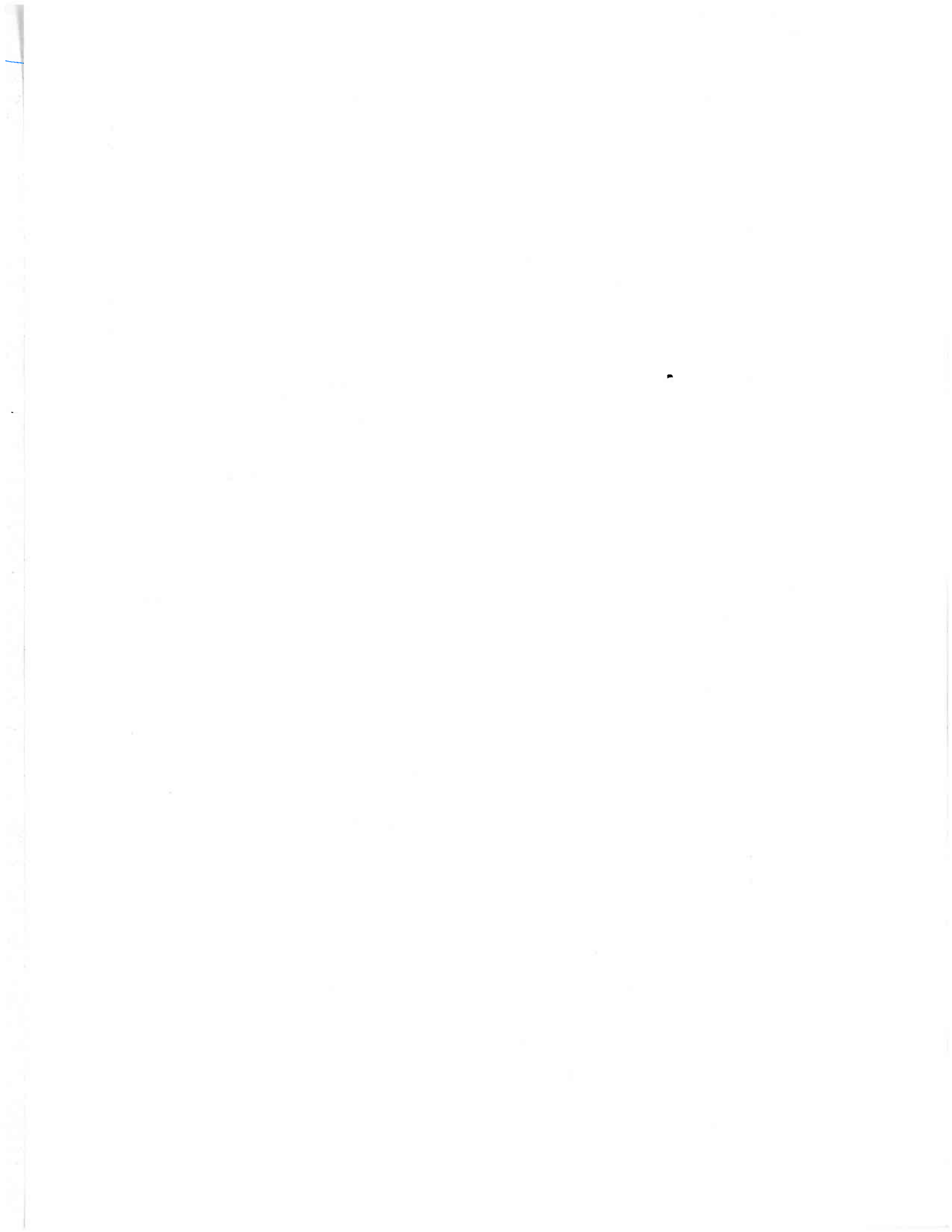
DST Test Number: 2

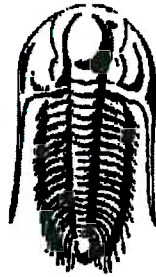


Trickle Testing, Inc

Ref. No: 44377

Printed: 2011.09.15 @ 10:40:40





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

15-20s-27w Lane,KS

Luebbers # 13D-15

Start Date: 2011.09.05 @ 07:00:54

End Date: 2011.09.05 @ 15:10:54

Job Ticket #: 44378 DST #: 3

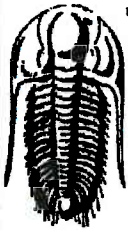
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.09.15 @ 10:40:55

FIML Natural Resources Luebbers # 13D-15 15-20s-27w Lane,KS DST # 3 Miss 2011.09.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

Luebbers # 13D-15

15-20s-27w Lane, KS

Job Ticket: 44378

DST#: 3

Test Start: 2011.09.05 @ 07:00:54

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: 09:10:39 Tester: **Shane McBride**
 Time Test Ended: 15:10:54 Unit No: **55**

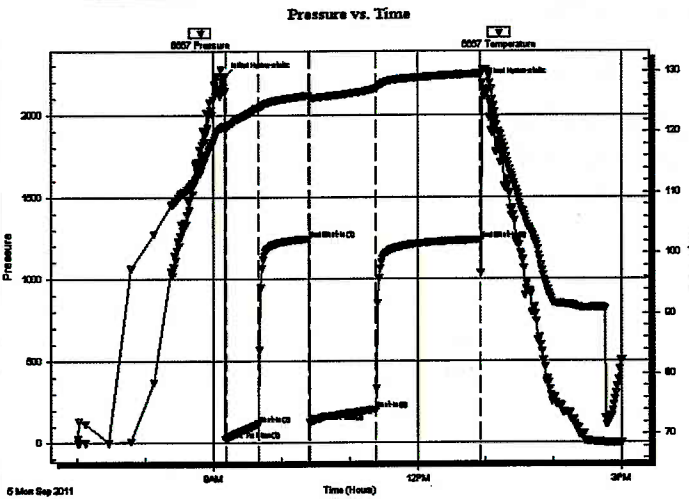
Interval: **4469.00 ft (KB) To 4508.00 ft (KB) (TVD)** Reference Elevations: **2625.00 ft (KB)**
 Total Depth: **4508.00 ft (KB) (TVD)** **2614.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** **KB to GR/CF: 11.00 ft**

Serial #: 6667

Outside

Press@RunDepth: **205.80 psig @ 4470.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.09.05** End Date: **2011.09.05** Last Calib.: **2011.09.05**
 Start Time: **07:00:54** End Time: **14:59:54** Time On Btm: **2011.09.05 @ 09:10:24**
 Time Off Btm: **2011.09.05 @ 12:56:54**

TEST COMMENT: 7 1/2" in blow
 No return
 B.O.B. in 57 min.
 3/4" in return blow died in 40 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.64	121.02	Initial Hydro-static
1	20.18	120.31	Open To Flow (1)
30	115.18	123.92	Shut-In(1)
74	1245.74	126.00	End Shut-In(1)
75	124.35	125.67	Open To Flow (2)
133	205.80	127.13	Shut-In(2)
226	1239.39	129.64	End Shut-In(2)
227	2198.09	130.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	o c g m 5g 35o 60m	0.44
90.00	o c g m 5g 45o 50m	0.44
300.00	c g o 7g 93o	2.48

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane, KS

Job Ticket: 44378

DST#: 3

ATTN: Gary Doke/Jim Musgro

Test Start: 2011.09.05 @ 07:00:54

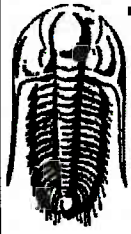
Tool Information

Drill Pipe:	Length: 4083.00 ft	Diameter: 3.80 inches	Volume: 57.27 bbl	Tool Weight: 2500.00 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 98000.00 lb
		<u>Total Volume:</u>	<u>59.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4469.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 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			4450.00	
Shut In Tool	5.00			4455.00	
Hydraulic tool	5.00			4460.00	
Packer	5.00			4465.00	20.00 Bottom Of Top Packer
Packer	4.00			4469.00	
Stubb	1.00			4470.00	
Recorder	0.00	6771	Inside	4470.00	
Recorder	0.00	6667	Outside	4470.00	
Perforations	33.00			4503.00	
Bullnose	5.00			4508.00	39.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 44378

DST#: 3

ATTN: Gary Doke/Jim Musgro

Test Start: 2011.09.05 @ 07:00:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	o c g m 5g 35o 60m	0.443
90.00	o c g m 5g 45o 50m	0.443
300.00	c g o 7g 93o	2.477

Total Length: 480.00 ft

Total Volume: 3.363 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

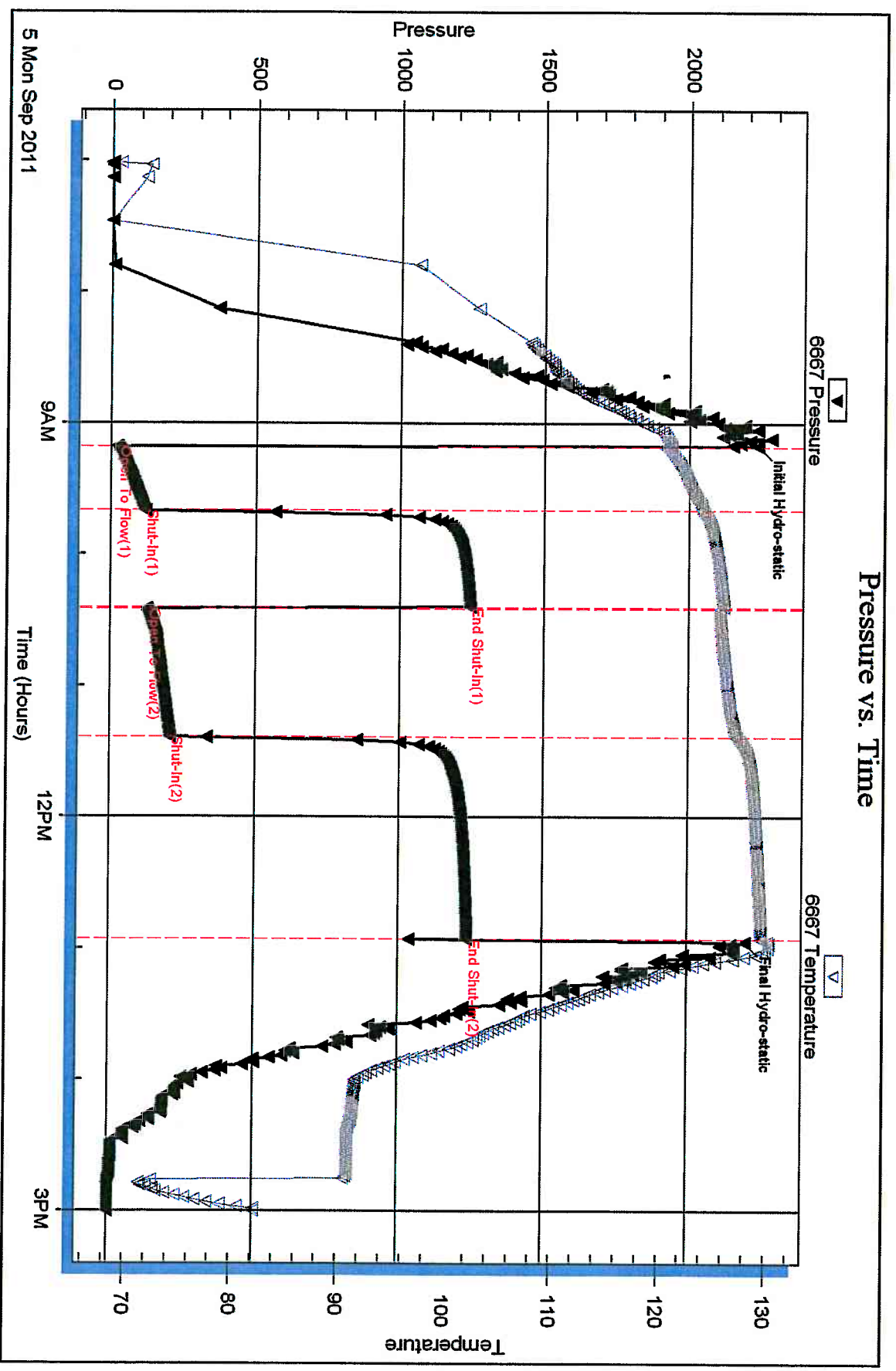
Recovery Comments:

Serial #: 6667

Outside FNL Natural Resources

15-20s-27w Lane, KS

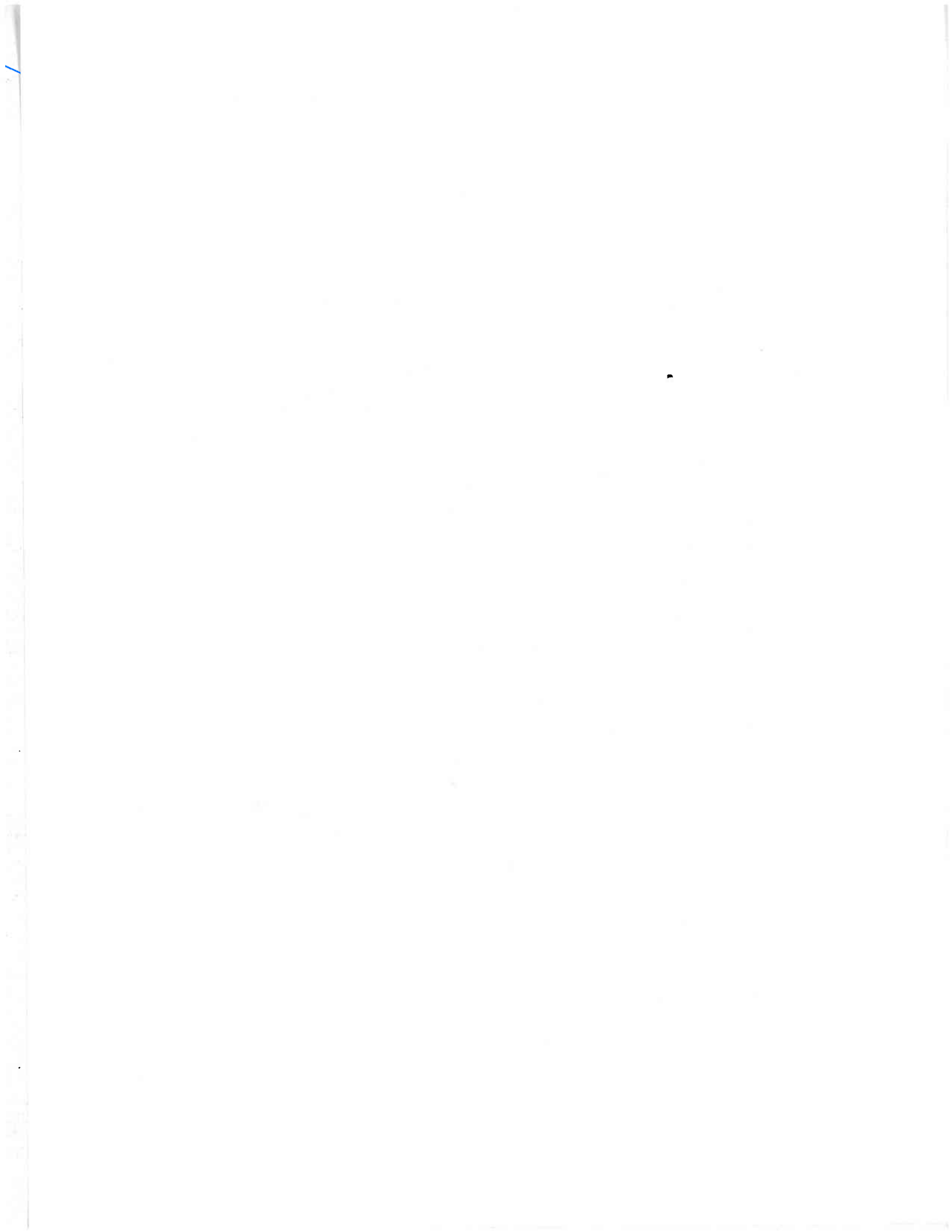
DST Test Number: 3

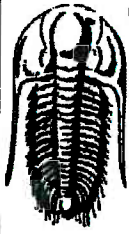


Trickle Testing, Inc

Ref. No: 44378

Printed: 2011.09.15 @ 10:40:57





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

Luebbers # 13D-15

15-20s-27w Lane,KS

Job Ticket: 44379

DST#: 4

Test Start: 2011.09.05 @ 23:00:38

GENERAL INFORMATION:

Formation: **Miss**

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

Time Tool Opened: 01:12:38

Time Test Ended: 07:15:53

Interval: **4507.00 ft (KB) To 4527.00 ft (KB) (TVD)**

Total Depth: **4527.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Shane McBride**

Unit No: **55**

Reference Elevations: **2625.00 ft (KB)**

2614.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **6667**

Outside

Press@RunDepth: **147.51 psig @ 4508.00 ft (KB)**

Start Date: **2011.09.05**

End Date:

2011.09.06

Capacity: **8000.00 psig**

Last Calib.: **2011.09.06**

Start Time: **23:00:38**

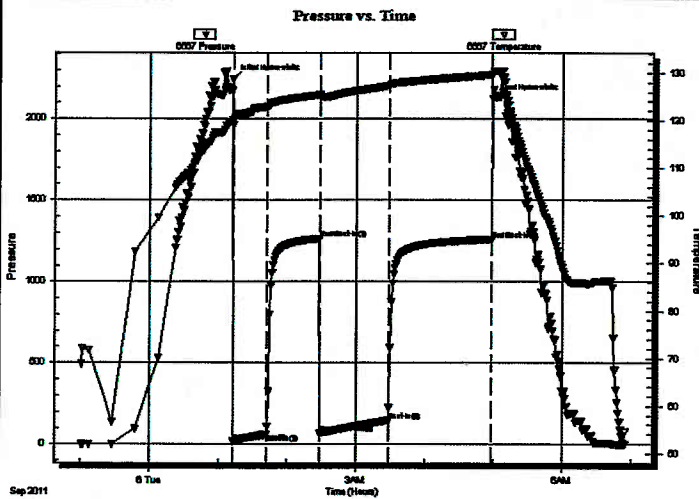
End Time:

06:54:53

Time On Btm: **2011.09.06 @ 01:12:23**

Time Off Btm: **2011.09.06 @ 04:58:38**

TEST COMMENT: 4 1/4" in blow
No return
4 1/4" in blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.36	120.15	Initial Hydro-static
1	17.25	119.13	Open To Flow (1)
30	64.43	122.87	Shut-In(1)
76	1263.18	125.44	End Shut-In(1)
76	69.45	125.09	Open To Flow (2)
136	147.51	127.35	Shut-In(2)
226	1259.25	129.65	End Shut-In(2)
227	2127.71	129.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	s g o c m 2g 48o 50m	0.44
190.00	s g o 2g 98o	0.93

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St Ste900
Denver, CO 80202

ATTN: Gary Doke/Jim Musgro

15-20s-27w Lane,KS

Luebbers # 13D-15

Start Date: 2011.09.05 @ 23:00:38

End Date: 2011.09.06 @ 07:15:53

Job Ticket #: 44379 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.09.15 @ 10:41:16

FIML Natural Resources

Luebbers # 13D-15

15-20s-27w Lane,KS

DST # 4

MISS

2011.09.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 44379

DST#: 4

ATTN: Gary Doke/Jim Musgro

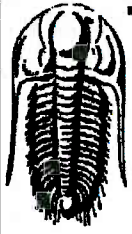
Test Start: 2011.09.05 @ 23:00:38

Tool Information

Drill Pipe:	Length: 4144.00 ft	Diameter: 3.80 inches	Volume: 58.13 bbl	Tool Weight: 2500.00 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 59.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4507.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			4488.00	
Shut In Tool	5.00			4493.00	
Hydraulic tool	5.00			4498.00	
Packer	5.00			4503.00	20.00 Bottom Of Top Packer
Packer	4.00			4507.00	
Stubb	1.00			4508.00	
Recorder	0.00	6771	Inside	4508.00	
Recorder	0.00	6667	Outside	4508.00	
Perforations	14.00			4522.00	
Bullnose	5.00			4527.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Luebbers # 13D-15

410 17th St Ste900
Denver, CO 80202

15-20s-27w Lane,KS

Job Ticket: 44379

DST#: 4

ATTN: Gary Doke/Jim Musgro

Test Start: 2011.09.05 @ 23:00:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	s g o c m 2g 48o 50m	0.443
190.00	s g o 2g 98o	0.934

Total Length: 280.00 ft Total Volume: 1.377 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

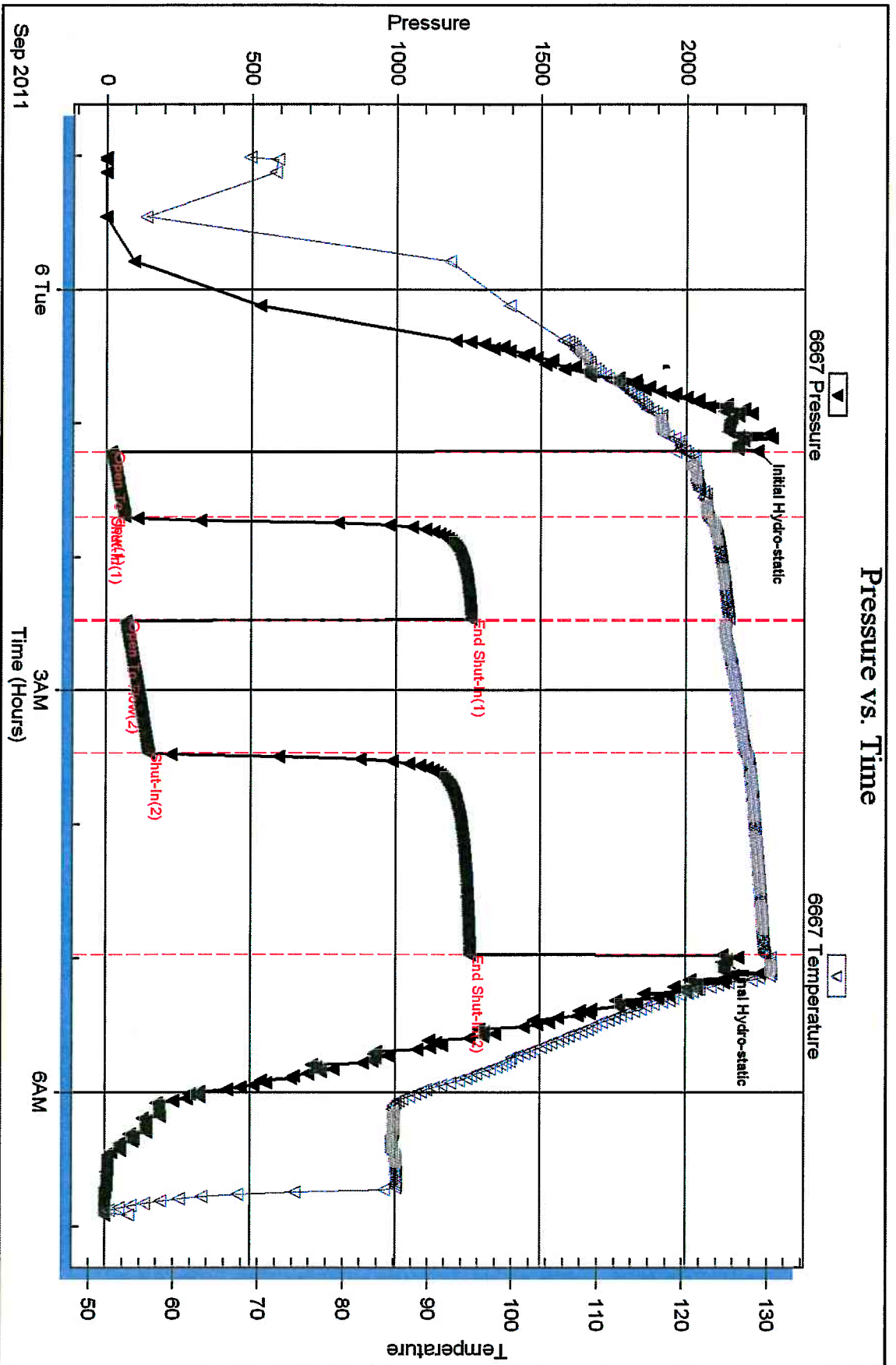
Recovery Comments:

Serial #: 6667

Outside F/M Natural Resources

15-20s-27w Lane, KS

DST Test Number: 4



Thiacke Testing, Inc

Ref. No: 44379

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