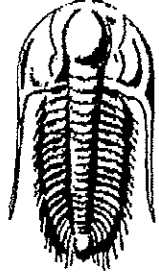


*\*Only copy\**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **R&B Oil & Gas**  
PO Box 195  
Attica KS 67009

ATTN: Tim Pierce

**Colborn B #1**

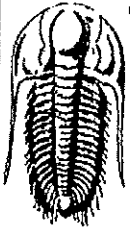
**23-33s-12w Barber,KS**

Start Date: 2013.03.10 @ 18:40:10  
End Date: 2013.03.11 @ 02:18:40  
Job Ticket #: 50850                      DST #: 1

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

Printed: 2013.03.18 @ 13:56:04

R&B Oil & Gas    23-33s-12w Barber,KS    Colborn B #1    DST # 1    Miss.    2013.03.10



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

R&B Oil & Gas

23-33s-12w Barber, KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50850

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.03.10 @ 18:40:10

### GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:55

Time Test Ended: 02:18:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4473.00 ft (KB) To 4555.00 ft (KB) (TVD)

Total Depth: 4555.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1467.00 ft (KB)

1457.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8352 Inside

Press@RunDepth: 54.48 psig @ 4474.00 ft (KB)

Start Date: 2013.03.10

End Date:

2013.03.11

Capacity: 8000.00 psig

Last Calib.: 2013.03.11

Start Time: 18:40:15

End Time:

02:18:39

Time On Btm: 2013.03.10 @ 20:39:25

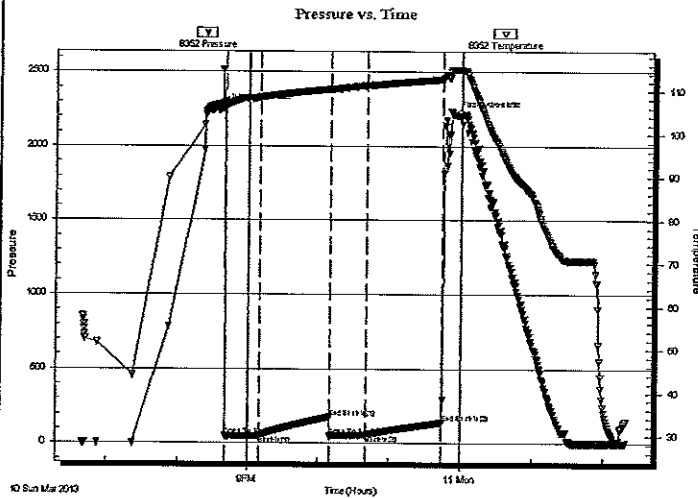
Time Off Btm: 2013.03.10 @ 23:53:40

TEST COMMENT: IF: Fair blow. Increase to 9".

IS: No blow.

FF: Weak to fair blow. Increase to 6".

FSI: No blow.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.05	107.26	Initial Hydro-static
2	46.32	106.66	Open To Flow (1)
30	47.82	108.59	Shut-In(1)
90	173.90	110.42	End Shut-In(1)
91	46.98	110.36	Open To Flow (2)
121	54.48	111.34	Shut-In(2)
186	139.70	112.79	End Shut-In(2)
195	2210.23	115.06	Final Hydro-static

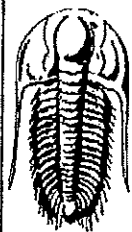
### Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gritty mud	839.31
0.00	250 ft. of GIP	0.00

### Gas Rates

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





**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

TOOL DIAGRAM

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50850

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.03.10 @ 18:40:10

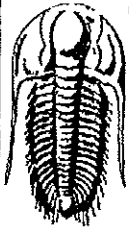
### Tool Information

Drill Pipe:	Length: 4359.00 ft	Diameter: 3.80 inches	Volume: 61.15 bbl	Tool Weight: 2400.00 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: 120.00 ft	Diameter: 120.00 inches	Volume: 1678.62 bbl	Weight to Pull Loose: 107000.0 lb
			Total Volume: 1739.77 bbl	Tool Chased 6.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4473.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4454.00	
Shut in tool	5.00			4459.00	
HMV	5.00			4464.00	
Packer	4.00			4468.00	20.00 Bottom Of Top Packer
Packer	5.00			4473.00	
Stubb	1.00			4474.00	
Recorder	0.00	8352	Inside	4474.00	
Recorder	0.00	8370	Outside	4474.00	
Perforations	8.00			4482.00	
Blank Spacing	63.00			4545.00	
Perforations	5.00			4550.00	
Bullnose	5.00			4555.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50850

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.03.10 @ 18:40:10

**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:	5000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	Gritty mud	839.311
0.00	250 ft.of GIP	0.000

Total Length: 60.00 ft      Total Volume: 839.311 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

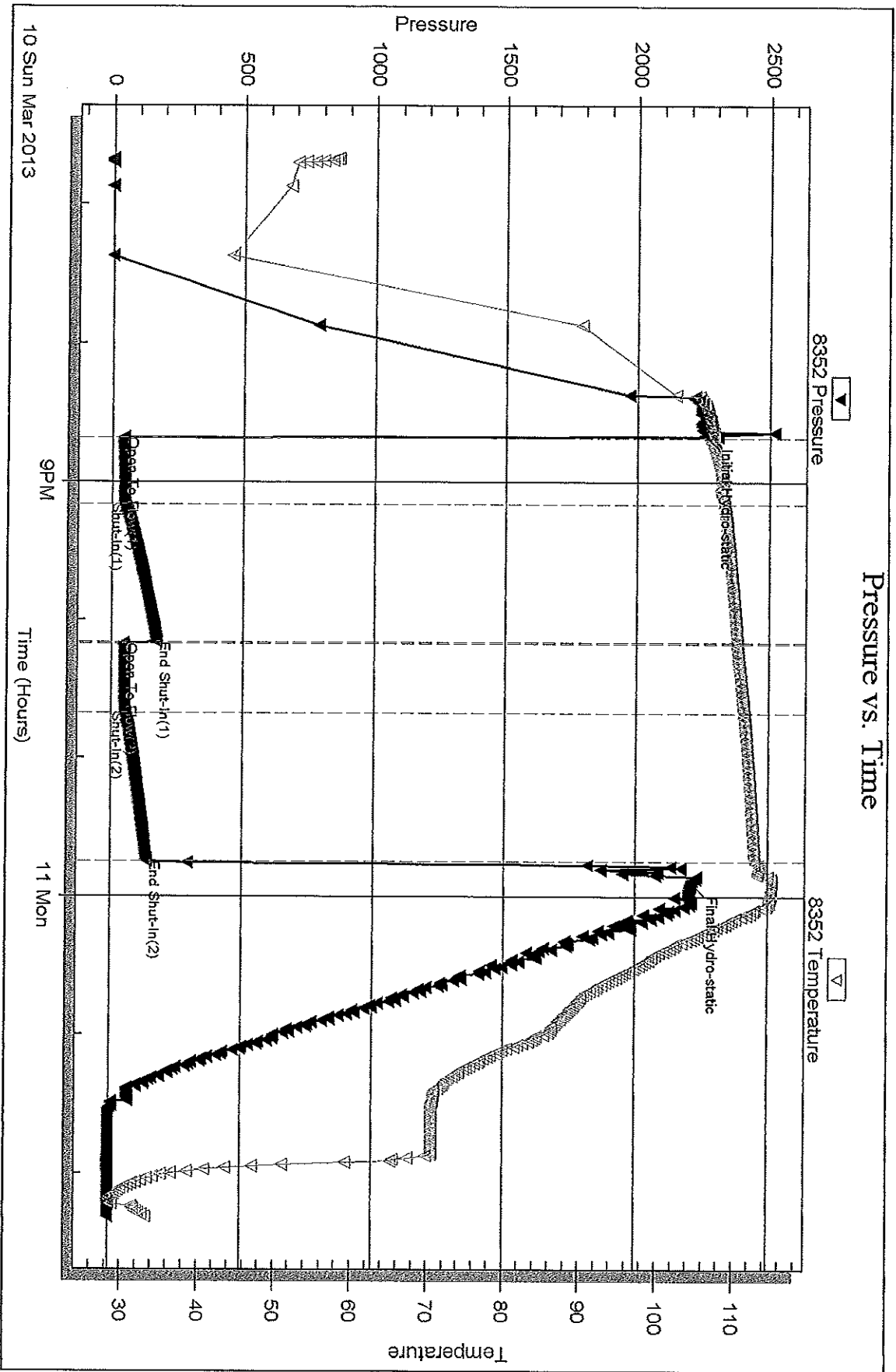
Recovery Comments:

Serial #: 8352

Inside R&B Oil & Gas

Colborn B #1

DST Test Number: 1

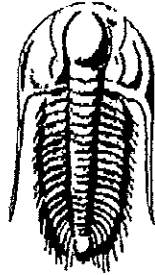


Trilobite Testing, Inc

Ref. No: 50850

Printed: 2013.03.18 @ 13:56:07





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas**

PO Box 195  
Attica KS 67009

ATTN: Tim Pierce

**Colborn B #1**

**23-33s-12w Barber,KS**

Start Date: 2013.03.11 @ 09:30:36

End Date: 2013.03.11 @ 16:13:51

Job Ticket #: 50951                      DST #: 2

Trilobite Testing, Inc

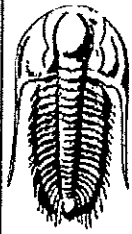
PO Box 362 Hays, KS 67601

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

Printed: 2013.03.18 @ 13:55:02

R&B Oil & Gas      23-33s-12w Barber,KS      Colborn B #1      DST # 2      Miss.      2013.03.11





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50951

DST#:2

ATTN: Tim Pierce

Test Start: 2013.03.11 @ 09:30:36

## GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:11:36

Time Test Ended: 16:13:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4550.00 ft (KB) To 4585.00 ft (KB) (TVD)

Reference Elevations: 1467.00 ft (KB)

Total Depth: 4585.00 ft (KB) (TVD)

1457.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8352

Inside

Press@RunDepth: 51.43 psig @ 4551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.11

End Date:

2013.03.11

Last Calib.:

2013.03.11

Start Time: 09:30:41

End Time:

16:13:50

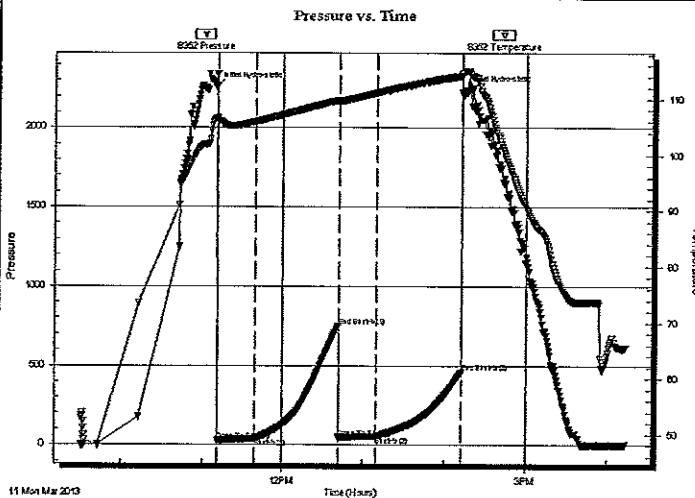
Time On Btm:

2013.03.11 @ 11:10:21

Time Off Btm:

2013.03.11 @ 14:14:06

TEST COMMENT: IF:Weak blow . Increase to 5 1/2".  
IS:No blow .  
FF:Weak blow . 1/2 - 2 1/2".  
FSI:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.02	106.62	Initial Hydro-static
2	27.98	105.96	Open To Flow (1)
30	39.14	105.99	Shut-In(1)
92	749.17	109.82	End Shut-In(1)
92	42.65	109.60	Open To Flow (2)
119	51.43	111.09	Shut-In(2)
182	457.97	114.24	End Shut-In(2)
184	2243.53	114.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCWM 1%o 23%w 76%m	979.20
0.00	170 ft.of GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50951

DST#: 2

ATTN: Tim Pierce

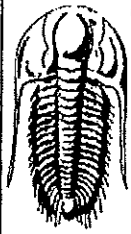
Test Start: 2013.03.11 @ 09:30:36

### Tool Information

Drill Pipe:	Length: 4421.00 ft	Diameter: 3.80 inches	Volume: 62.02 bbl	Tool Weight: 2400.00 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: 120.00 ft	Diameter: 120.00 inches	Volume: 1678.62 bbl	Weight to Pull Loose: 93000.00 lb
			Total Volume: 1740.64 bbl	Tool Chased 3.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4550.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4531.00	
Shut in tool	5.00			4536.00	
HMV	5.00			4541.00	
Packer	4.00			4545.00	20.00 Bottom Of Top Packer
Packer	5.00			4550.00	
Stubb	1.00			4551.00	
Recorder	0.00	8352	Inside	4551.00	
Recorder	0.00	8370	Outside	4551.00	
Perforations	29.00			4580.00	
Bullnose	5.00			4585.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>55.00</b>				



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Altica KS 67009

Colborn B #1

Job Ticket: 50951

DST#: 2

ATTN: Tim Pierce

Test Start: 2013.03.11 @ 09:30:36

### 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:	61000 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbf		
Water Loss:	9.59 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	0.20 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
70.00	SOCWM 1%o 23%w 76%m	979.196
0.00	170 ft.of GIP	0.000

Total Length: 70.00 ft      Total Volume: 979.196 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .17 ohms@51 deg

Serial #: 8352

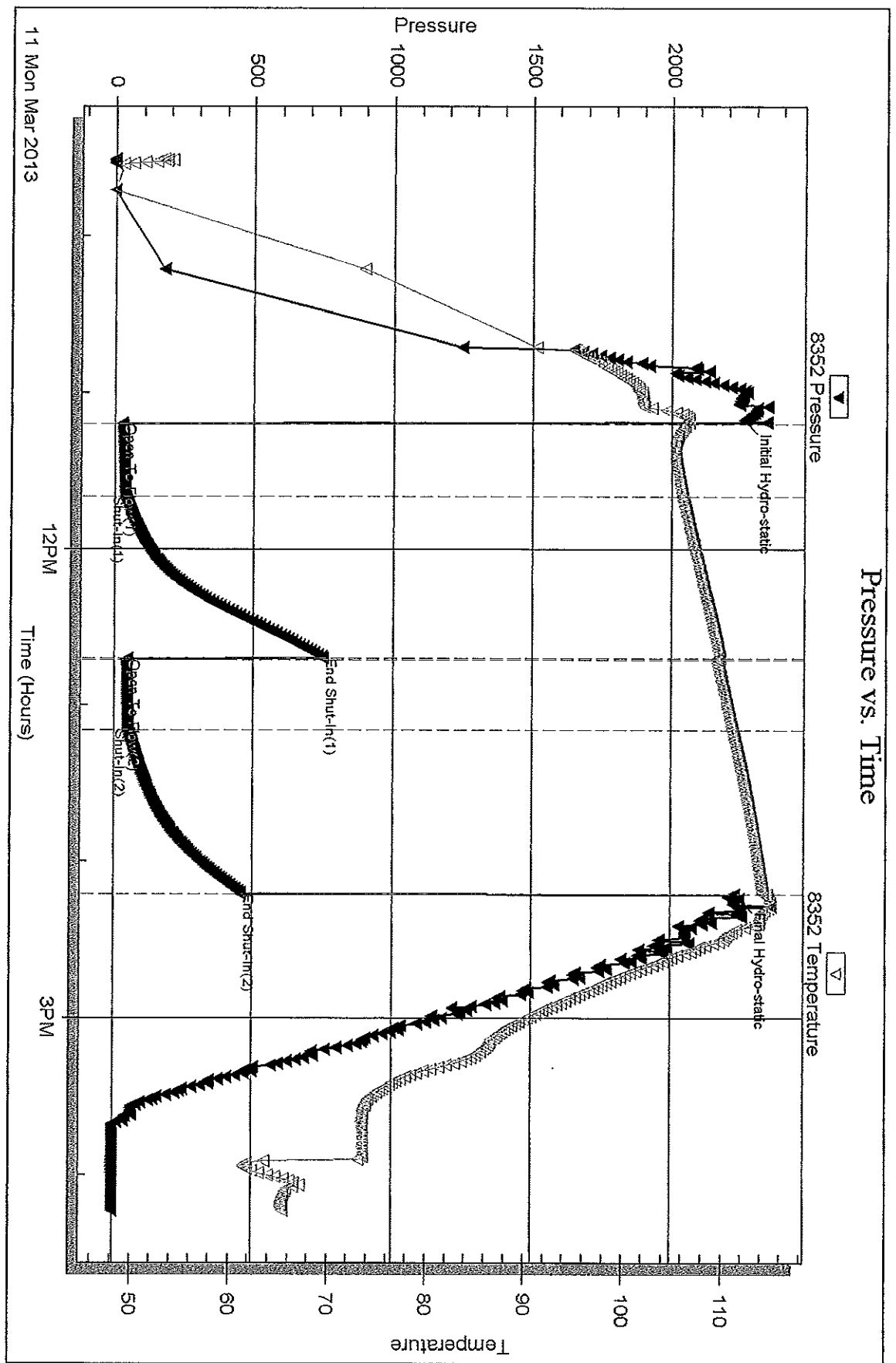
Inside

R&B Oil & Gas

Colborn B #1

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 50951

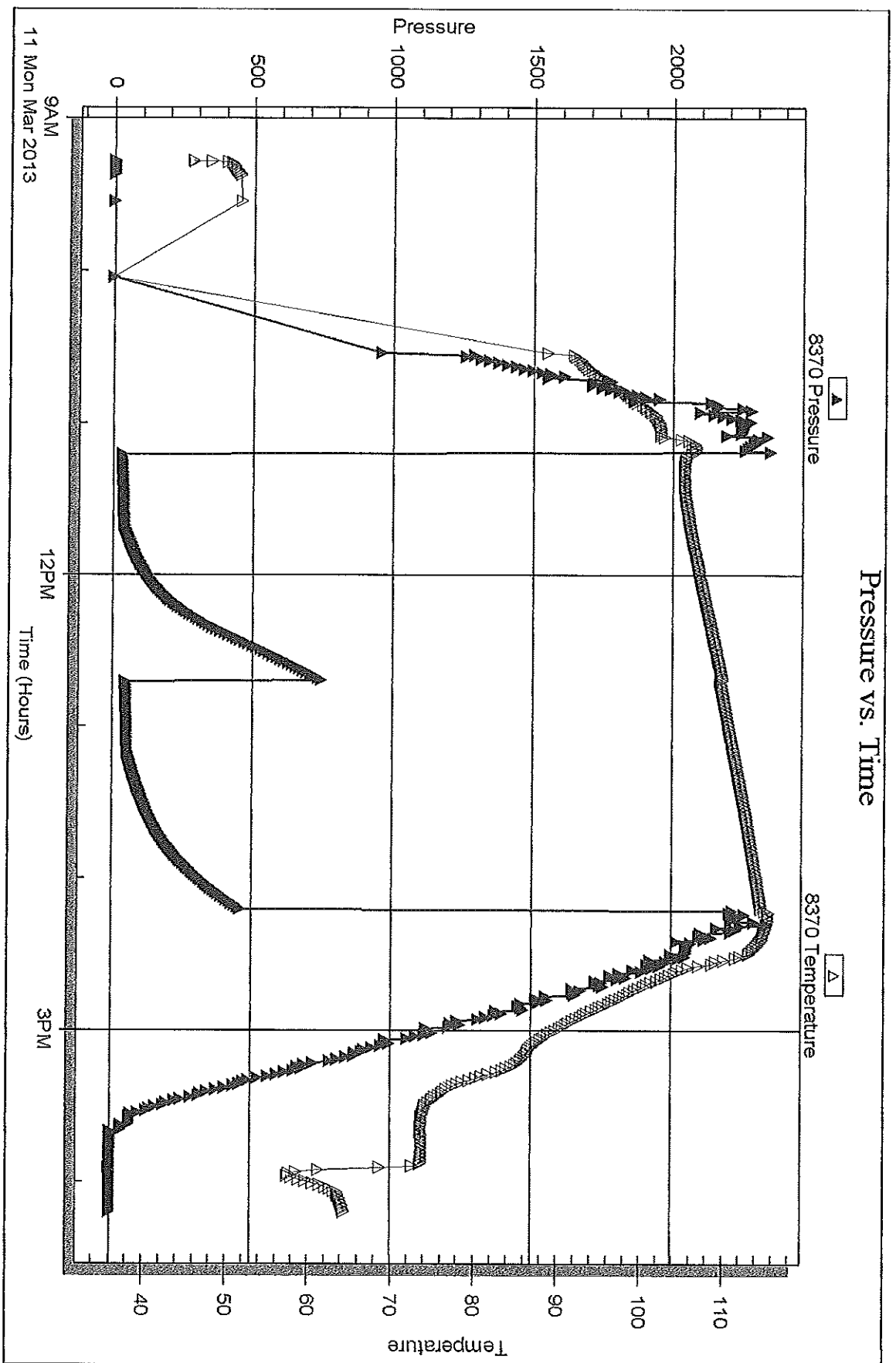
Printed: 2013.03.18 @ 13:55:04

Serial #: 8370

Outside R&B Oil & Gas

Colborn B #1

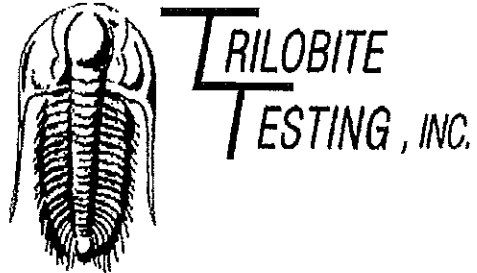
DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 50951

Printed: 2013.03.18 @ 13:55:05



## DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas**

PO Box 195  
Attica KS 67009

ATTN: Tim Pierce

**Colborn B #1**

**23-33s-12w Barber,KS**

Start Date: 2013.03.12 @ 08:32:25

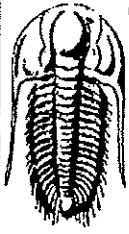
End Date: 2013.03.12 @ 16:06:10

Job Ticket #: 50952                      DST #: 3

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

Printed: 2013.03.18 @ 13:54:01

R&B Oil & Gas  
23-33s-12w Barber,KS  
Colborn B #1  
DST # 3  
Viola  
2013.03.12



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

R&B Oil & Gas  
 PO Box 195  
 Attica KS 67009  
 ATTN: Tim Pierce

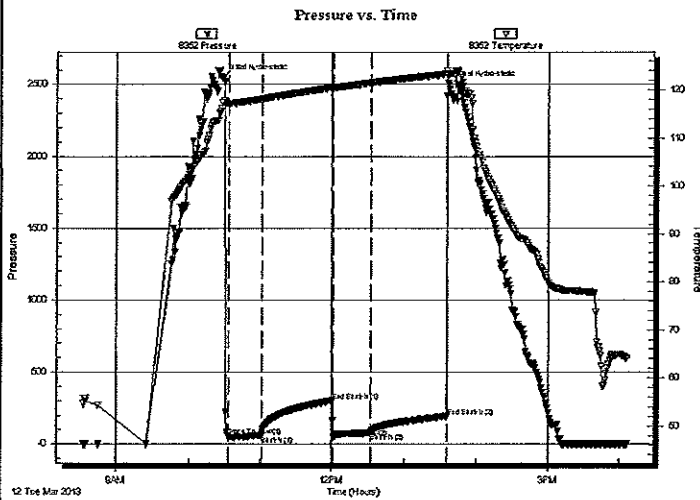
23-33s-12w Barber,KS  
 Colborn B #1  
 Job Ticket: 50952      DST#: 3  
 Test Start: 2013.03.12 @ 08:32:25

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: **No Whipstock:**                      **ft (KB)**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **10:33:25**  
 Tester: **Gary Pevoteaux**  
 Time Test Ended: **16:06:10**  
 Unit No: **56**  
 Interval: **4903.00 ft (KB) To 4918.00 ft (KB) (TVD)**  
 Reference Elevations: **1467.00 ft (KB)**  
 Total Depth: **4918.00 ft (KB) (TVD)**  
**1457.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
 KB to GR/CF: **10.00 ft**

**Serial #: 8352**      **Inside**  
 Press@RunDepth: **78.61 psig @ 4904.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2013.03.12**      End Date: **2013.03.12**      Last Calib.: **2013.03.12**  
 Start Time: **08:32:30**      End Time: **16:06:09**      Time On Btm: **2013.03.12 @ 10:27:55**  
 Time Off Btm: **2013.03.12 @ 13:37:25**

**TEST COMMENT:** IF: Strong blow . B.O.B. in 1 sec. GTS in 7 mins. (see gas flow report)  
 IS: Weak surface blow mid way through shut in.  
 FF: Strong blow . B.O.B. in 6 - 7 secs. Gas was TSTM.  
 FS: No blow.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2545.67	116.07	Initial Hydro-static
6	53.50	117.18	Open To Flow (1)
33	58.80	118.05	Shut-In(1)
93	301.77	120.51	End Shut-In(1)
94	45.98	120.42	Open To Flow (2)
125	78.61	121.49	Shut-In(2)
188	194.41	123.34	End Shut-In(2)
190	2498.83	123.29	Final Hydro-static

## Recovery

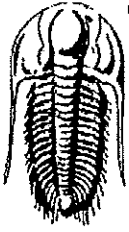
Length (ft)	Description	Volume (bbl)
75.00	GMCO 18%g 30% m 52% o	1049.14
75.00	CGO 20%g 80% o	629.90

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	3.00	63.74
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.38	3.00	63.74

\* Recovery from multiple tests





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

R&B Oil & Gas

23-33s-12w Barber, KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50952

DST#: 3

ATTN: Tim Pierce

Test Start: 2013.03.12 @ 08:32:25

## GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 10:33:25

Time Test Ended: 16:06:10

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

Tester: **Gary Pevoteaux**

Unit No: **56**

Interval: **4903.00 ft (KB) To 4918.00 ft (KB) (TVD)**

Total Depth: **4918.00 ft (KB) (TVD)**

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

Reference Elevations: **1467.00 ft (KB)**

**1457.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8370** Outside

Press@RunDepth: psig @ **4904.00 ft (KB)**

Start Date: **2013.03.12**

End Date:

**2013.03.12**

Capacity: **8000.00 psig**

Last Calib.: **2013.03.12**

Start Time: **08:29:00**

End Time:

**16:04:09**

Time On Btm:

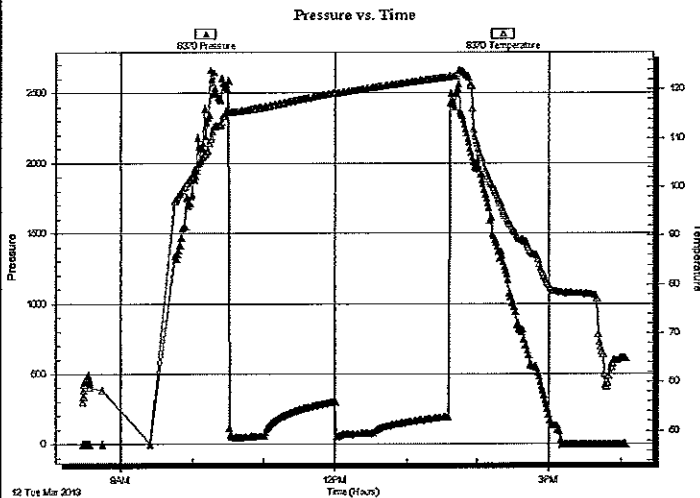
Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 1 sec. GTS in 7 mins. (see gas flow report)

ISI: Weak surface blow mid way through shut in.

FF: Strong blow . B.O.B. in 6 - 7 secs. Gas was TSTM.

FSI: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

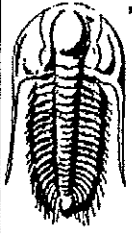
## Recovery

Length (ft)	Description	Volume (bbl)
75.00	GMCO 18%g 30%m 52%o	1049.14
75.00	CGO 20%g 80%o	629.90

\* Recovery from multiple tests

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	3.00	63.74
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.38	3.00	63.74



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

R&B Oil & Gas

**23-33s-12w Barber,KS**

PO Box 195  
Attica KS 67009

**Colborn B #1**

Job Ticket: 50952

**DST#: 3**

ATTN: TimPierce

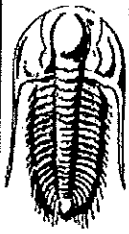
Test Start: 2013.03.12 @ 08:32:25

**Tool Information**

Drill Pipe:	Length: 4794.00 ft	Diameter: 3.80 inches	Volume: 67.25 bbl	Tool Weight: 2400.00 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: 120.00 ft	Diameter: 120.00 inches	Volume: 1678.62 bbl	Weight to Pull Loose: 89000.00 lb
			<u>Total Volume: 1745.87 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4903.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4884.00	
Shut in tool	5.00			4889.00	
HMV	5.00			4894.00	
Packer	4.00			4898.00	20.00 Bottom Of Top Packer
Packer	5.00			4903.00	
Stubb	1.00			4904.00	
Recorder	0.00	8352	Inside	4904.00	
Recorder	0.00	8370	Outside	4904.00	
Perforations	9.00			4913.00	
Bullnose	5.00			4918.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50952

DST#: 3

ATTN: Tim Pierce

Test Start: 2013.03.12 @ 08:32:25

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 12.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
75.00	GMCO 18%g 30%m 52%o	1049.139
75.00	CGO 20%g 80%o	629.904

Total Length: 150.00 ft      Total Volume: 1679.043 bbf

Num Fluid Samples: 0

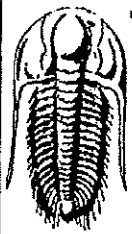
Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

R&B Oil & Gas

23-33s-12w Barber,KS

PO Box 195  
Attica KS 67009

Colborn B #1

Job Ticket: 50952

DST#: 3

ATTN: Tim Pierce

Test Start: 2013.03.12 @ 08:32:25

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	3.00	63.74
1	20	0.25	3.00	27.60
1	30	0.25	1.00	24.43

Serial #: 8352

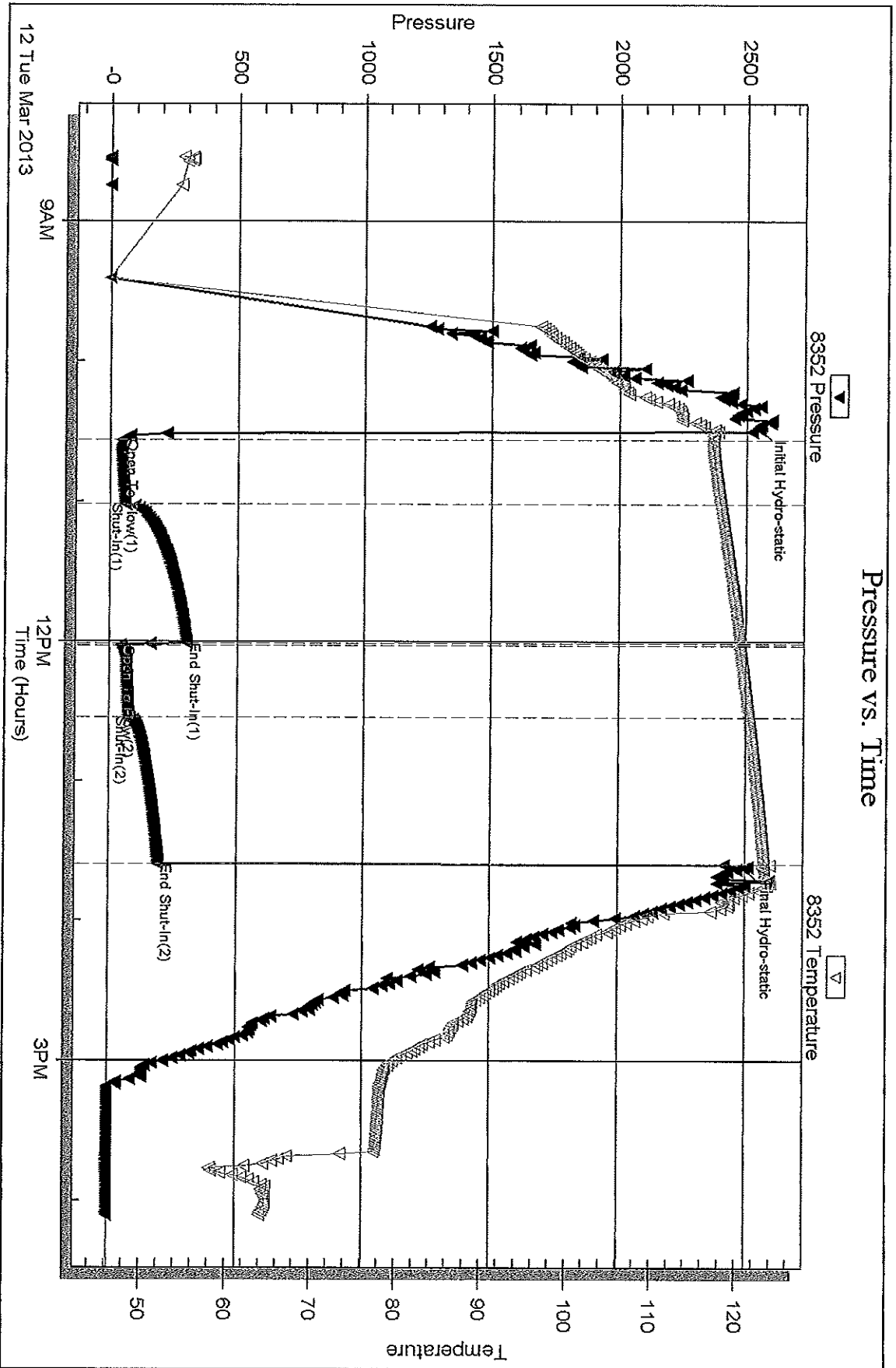
Inside

R&B Oil & Gas

Colborn B #1

DST Test Number: 3

### Pressure vs. Time

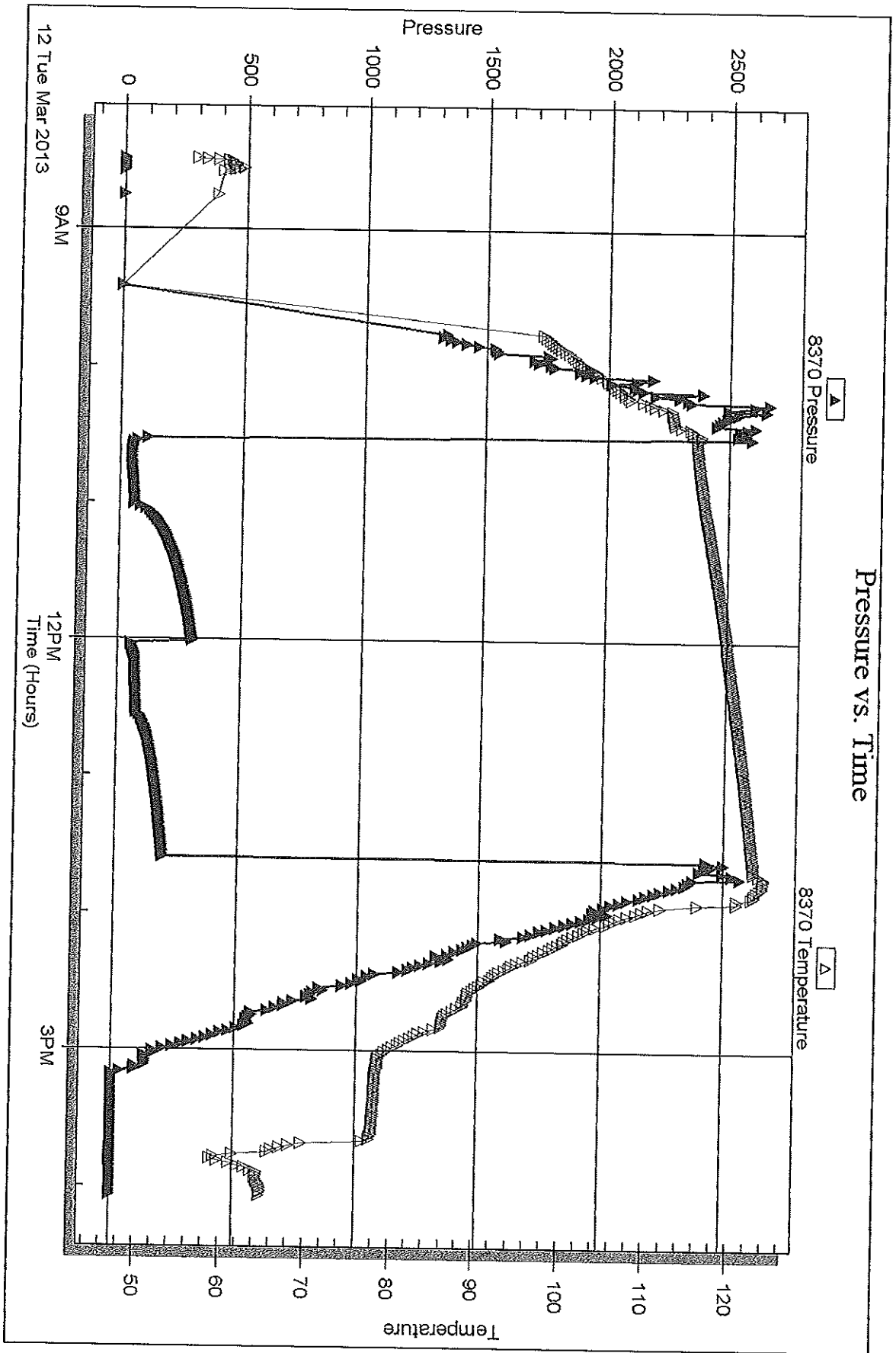


Serial #: 8370

Outside R&B Oil & Gas

Colborn B #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50952

Printed: 2013.03.18 @ 13:54:05