



## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.04.27 @ 10:51:04

End Date: 2012.04.27 @ 18:00:19

Job Ticket #: 45866                      DST #: 1

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

Printed: 2012.05.10 @ 15:01:34



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 45866

**DST#: 1**

Test Start: 2012.04.27 @ 10:51:04

## GENERAL INFORMATION:

Formation: **King Hill**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:52:04

Time Test Ended: 18:00:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

**Interval: 3891.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 3177.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8368**

**Inside**

Press @ Run Depth: 336.70 psig @ 3892.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.27

End Date:

2012.04.27

Last Calib.:

2012.04.27

Start Time: 10:51:04

End Time:

17:40:19

Time On Btm:

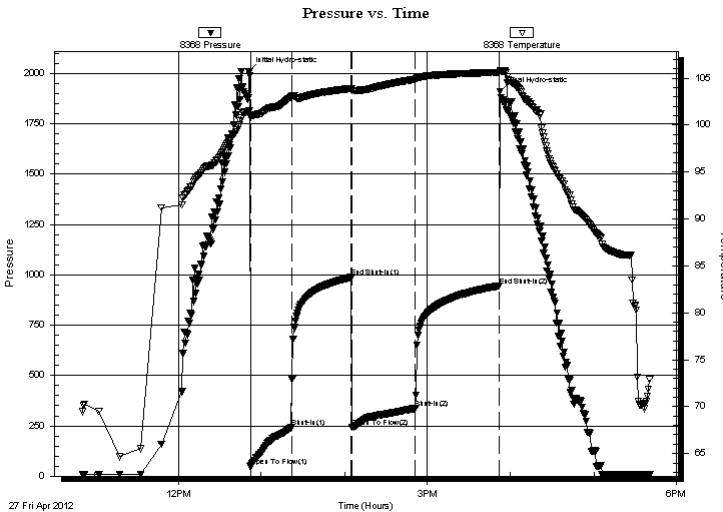
2012.04.27 @ 12:51:19

Time Off Btm:

2012.04.27 @ 15:52:19

TEST COMMENT: 10" blow  
No return  
7 1/2" blow  
No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.32	101.48	Initial Hydro-static
1	46.97	100.85	Open To Flow (1)
31	241.23	102.98	Shut-In(1)
74	987.05	103.89	End Shut-In(1)
75	241.48	103.65	Open To Flow (2)
120	336.70	104.87	Shut-In(2)
181	945.32	105.60	End Shut-In(2)
181	1910.05	105.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
350.00	s m c w 10% m 90% w	1.72
180.00	m c w 25% m 75% w	0.89
120.00	w c m 30% w 70% m	1.67

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45866

**DST#: 1**

ATTN: Max Lovely

Test Start: 2012.04.27 @ 10:51:04

## Tool Information

Drill Pipe:	Length: 3363.00 ft	Diameter: 3.80 inches	Volume: 47.17 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 49.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	3891.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	116.00 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			3865.00	
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Jars	5.00			3880.00	
Safety Joint	2.00			3882.00	
Packer	5.00			3887.00	27.00 Bottom Of Top Packer
Packer	4.00			3891.00	
Stubb	1.00			3892.00	
Recorder	0.00	6771	Outside	3892.00	
Recorder	0.00	8368	Inside	3892.00	
Perforations	18.00			3910.00	
Change Over Sub	1.00			3911.00	
Drill Pipe	63.00			3974.00	
Change Over Sub	1.00			3975.00	
Bullnose	5.00			3980.00	89.00 Bottom Packers & Anchor

**Total Tool Length: 116.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45866

**DST#: 1**

ATTN: Max Lovely

Test Start: 2012.04.27 @ 10:51:04

## 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:

20500 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	s m c w 10%m 90%w	1.721
180.00	m c w 25%m 75%w	0.885
120.00	w c m 30%w 70%m	1.674

Total Length: 650.00 ft      Total Volume: 4.280 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .301 @ 76\*f= 20,500

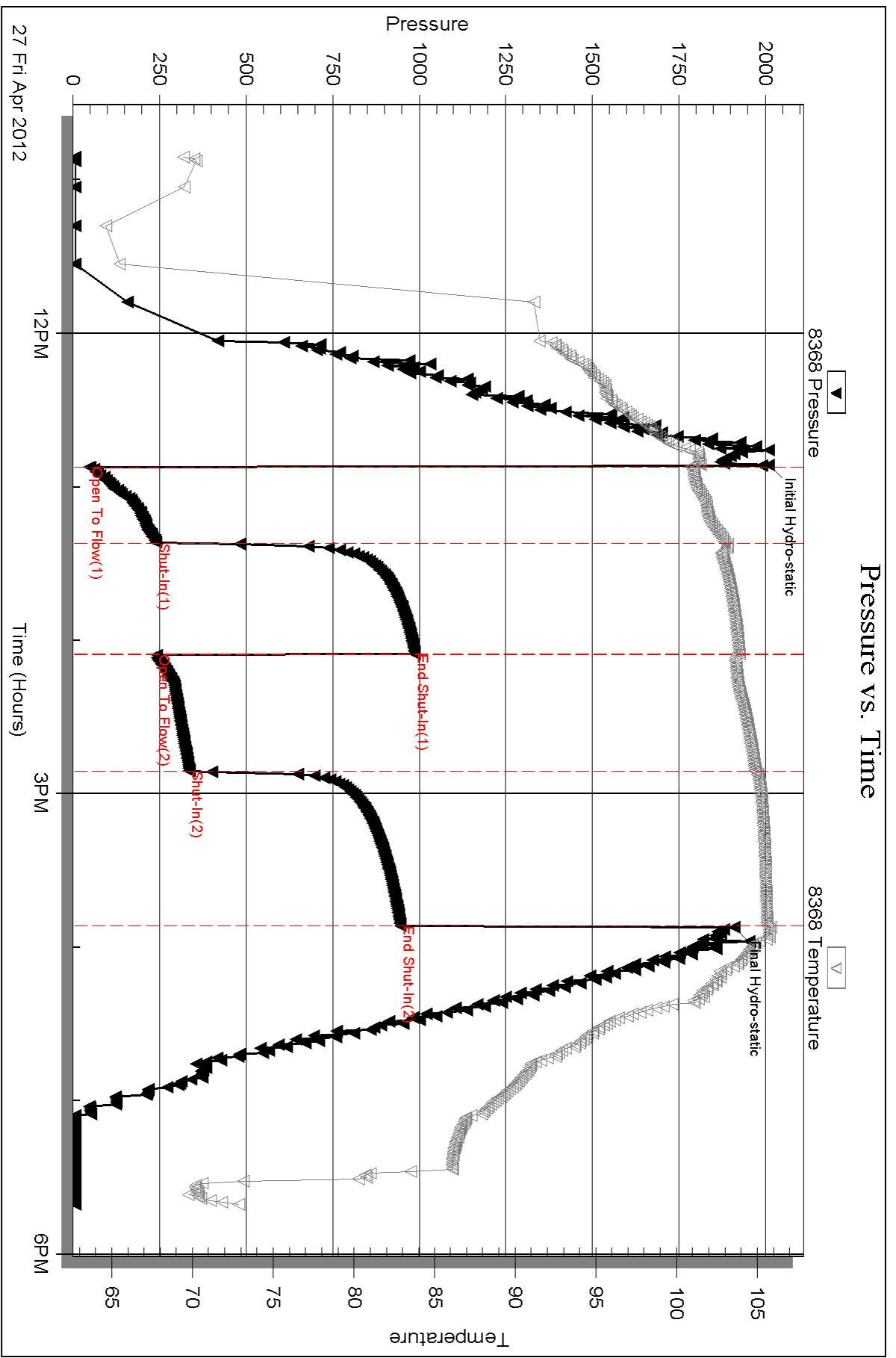
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45866

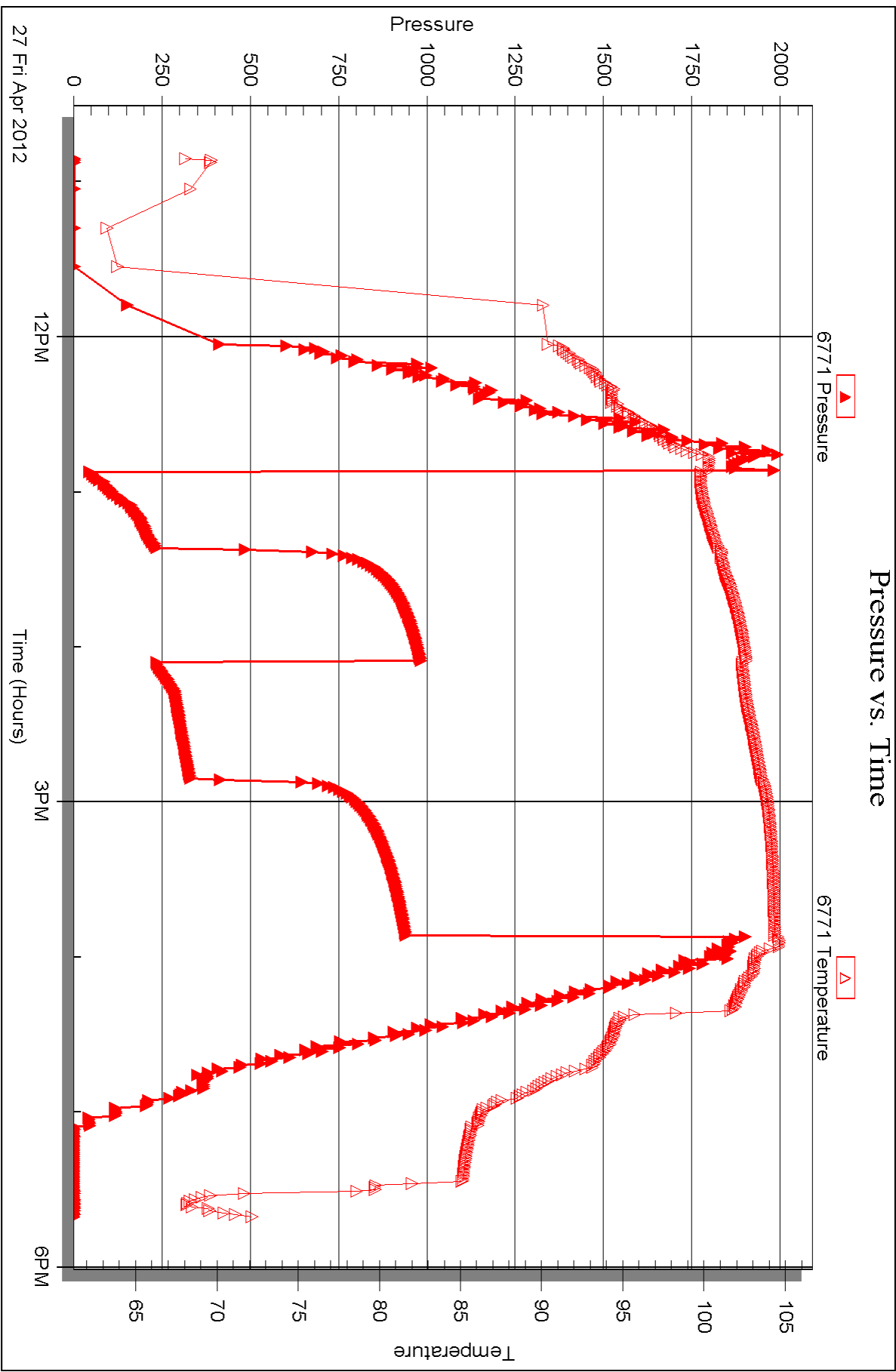
Printed: 2012.05.10 @ 15:01:36

Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.04.28 @ 03:40:22

End Date: 2012.04.28 @ 09:35:37

Job Ticket #: 45867                      DST #: 2

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

Printed: 2012.05.10 @ 15:00:43





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TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 45867

**DST#: 2**

Test Start: 2012.04.28 @ 03:40:22

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:34:37

Time Test Ended: 09:35:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

**Interval: 4021.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Total Depth: 4060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8368**

**Inside**

Press @ Run Depth: 76.82 psig @ 4022.00 ft (KB)

Start Date: 2012.04.28

End Date:

2012.04.28

Start Time: 03:40:22

End Time:

09:14:37

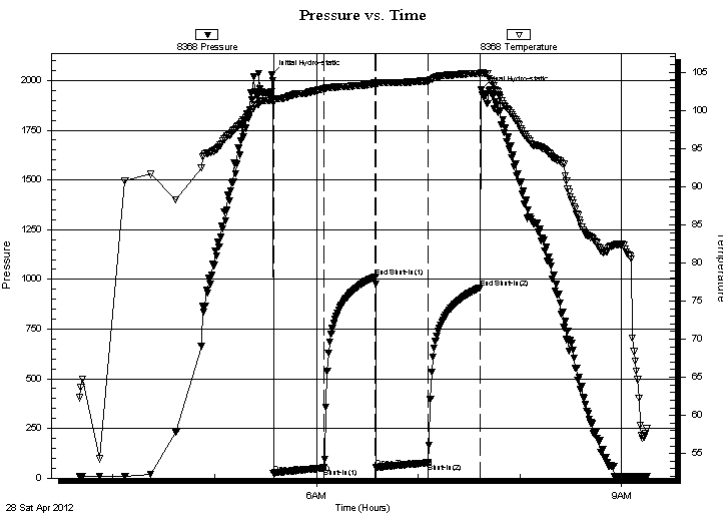
Capacity: 8000.00 psig

Last Calib.: 2012.04.28

Time On Btm: 2012.04.28 @ 05:33:37

Time Off Btm: 2012.04.28 @ 07:37:07

**TEST COMMENT:** Surface blow died in 12 min  
No return  
Very weak blow, intermittent surface blow  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.01	101.38	Initial Hydro-static
1	25.31	101.04	Open To Flow (1)
31	51.05	102.77	Shut-In(1)
61	1013.24	103.58	End Shut-In(1)
62	53.46	103.27	Open To Flow (2)
92	76.82	103.86	Shut-In(2)
123	958.13	104.85	End Shut-In(2)
124	1951.48	104.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots 100%m	0.30

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita, KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45867

**DST#: 2**

ATTN: Max Lovely

Test Start: 2012.04.28 @ 03:40:22

## Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 51.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4021.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 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			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Jars	5.00			4010.00	
Safety Joint	2.00			4012.00	
Packer	5.00			4017.00	27.00 Bottom Of Top Packer
Packer	4.00			4021.00	
Stubb	1.00			4022.00	
Recorder	0.00	6771	Outside	4022.00	
Recorder	0.00	8368	Inside	4022.00	
Perforations	33.00			4055.00	
Bullnose	5.00			4060.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration

**14-17s-35w Wichita, KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45867

**DST#: 2**

ATTN: Max Lovely

Test Start: 2012.04.28 @ 03:40:22

## 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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud w /oil spots 100%m	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

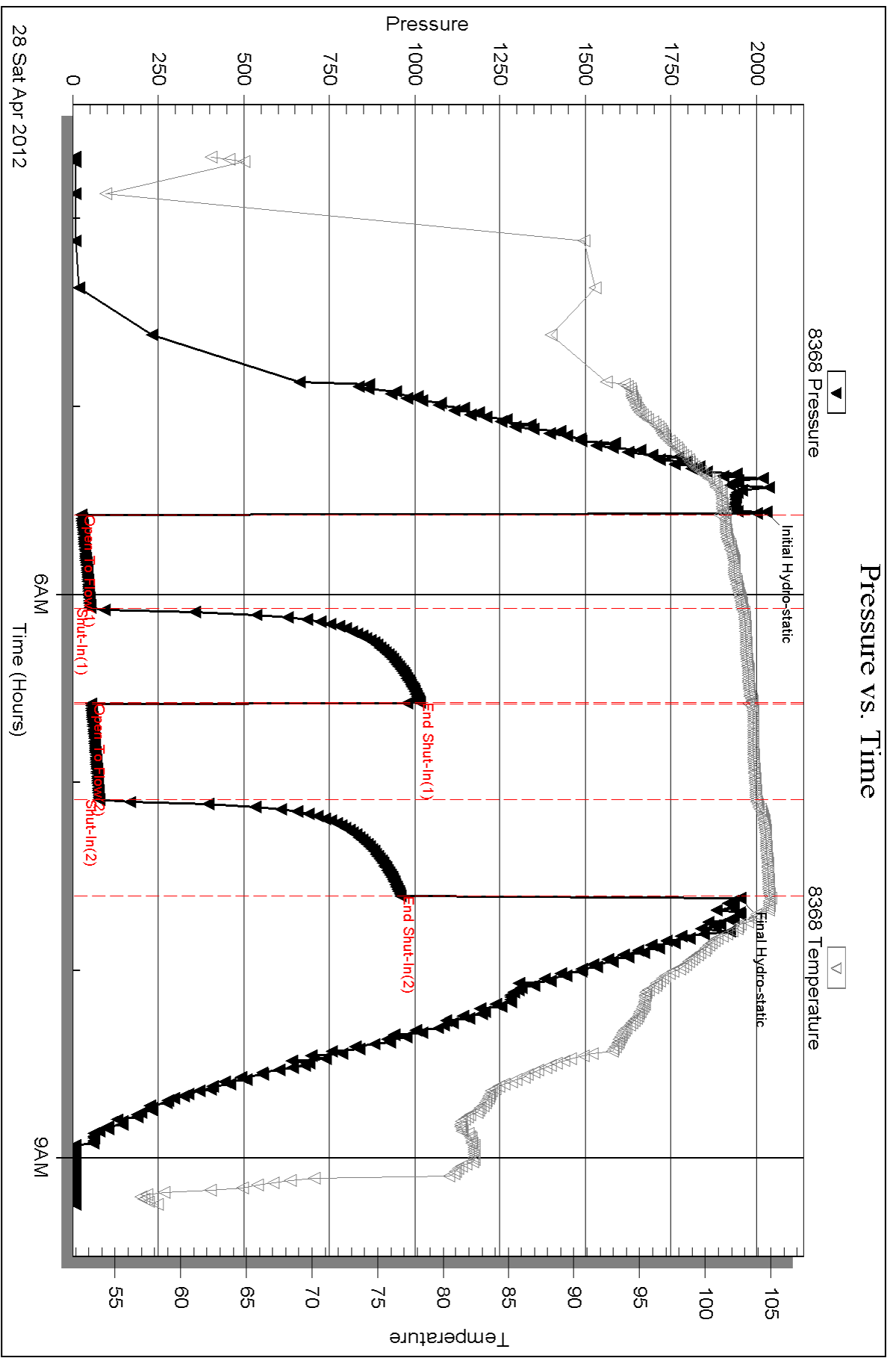
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

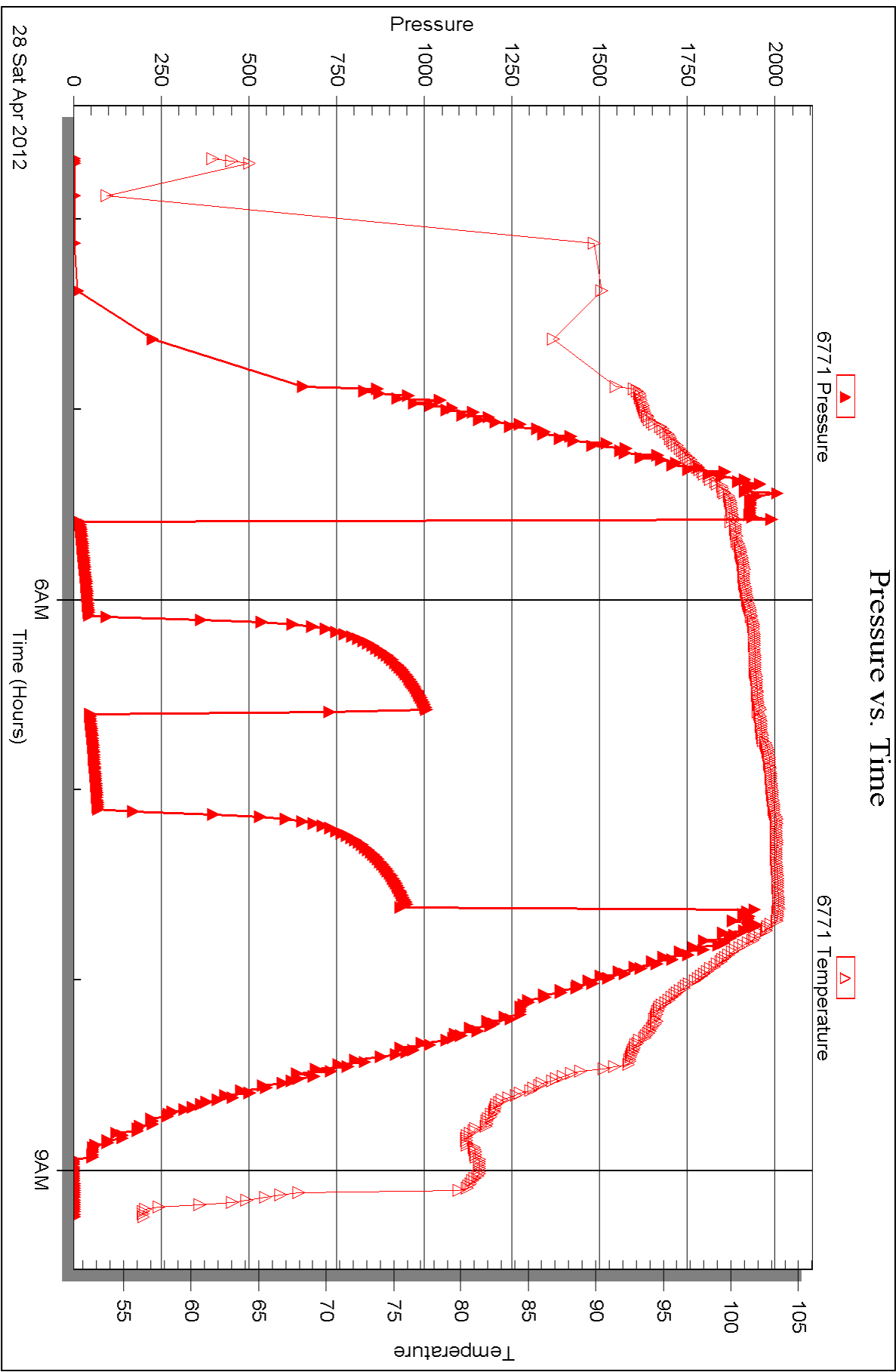


Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.04.29 @ 04:18:15

End Date: 2012.04.29 @ 11:53:15

Job Ticket #: 46471                      DST #: 3

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

Printed: 2012.05.10 @ 14:59:22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 46471

**DST#: 3**

Test Start: 2012.04.29 @ 04:18:15

## GENERAL INFORMATION:

Formation: **Lansing C-F**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:49:45

Time Test Ended: 11:53:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

**Interval: 4101.00 ft (KB) To 4194.00 ft (KB) (TVD)**

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4194.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6771**

**Outside**

Press @ Run Depth: 355.23 psig @ 4102.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.29

End Date:

2012.04.29

Last Calib.:

2012.04.29

Start Time: 04:18:15

End Time:

11:53:15

Time On Btm:

2012.04.29 @ 06:49:00

Time Off Btm:

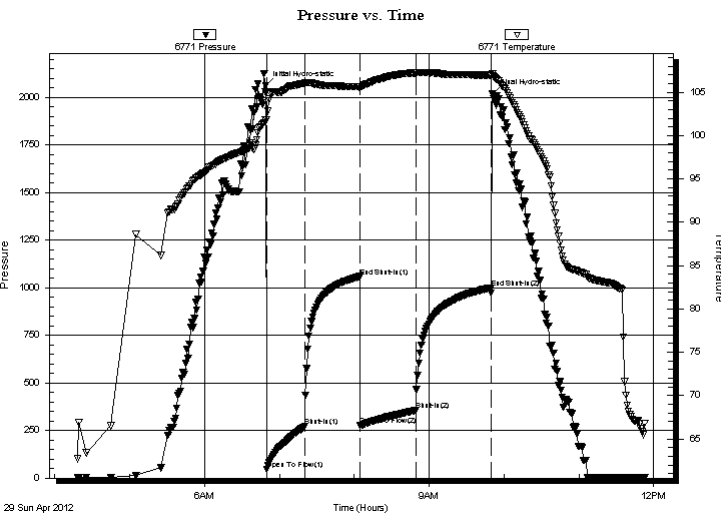
2012.04.29 @ 09:51:15

TEST COMMENT: B.O.B 15 min

No return

built to 8 inch blow

No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.38	101.80	Initial Hydro-static
1	46.86	101.87	Open To Flow (1)
32	270.52	106.00	Shut-In(1)
76	1058.45	105.65	End Shut-In(1)
76	275.69	105.44	Open To Flow (2)
121	355.23	107.22	Shut-In(2)
181	1000.32	106.95	End Shut-In(2)
183	2017.91	106.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
290.00	SOWCMO T/R W10% M90 %	1.43
360.00	MCW M20% W80%	2.85

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46471

**DST#: 3**

ATTN: Max Lovely

Test Start: 2012.04.29 @ 04:18:15

## Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 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: 30000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 52.48 bbl		Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4101.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	113.00 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			4082.00	
Shut In Tool	5.00			4087.00	
Hydraulic tool	5.00			4092.00	
Packer	5.00			4097.00	20.00 Bottom Of Top Packer
Packer	4.00			4101.00	
Stubb	1.00			4102.00	
Recorder	0.00	6771	Outside	4102.00	
Recorder	0.00	8368	Inside	4102.00	
Perforations	22.00			4124.00	
Change Over Sub	1.00			4125.00	
Drill Pipe	63.00			4188.00	
Change Over Sub	1.00			4189.00	
Bullnose	5.00			4194.00	93.00 Bottom Packers & Anchor

**Total Tool Length: 113.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita,KS**

**Simons #1**

Job Ticket: 46471

**DST#: 3**

Test Start: 2012.04.29 @ 04:18:15

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 7.85 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 4200.00 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: 30000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
290.00	SOWCMO T/R W10% M 90 %	1.426
360.00	MCW M 20% W 80%	2.854

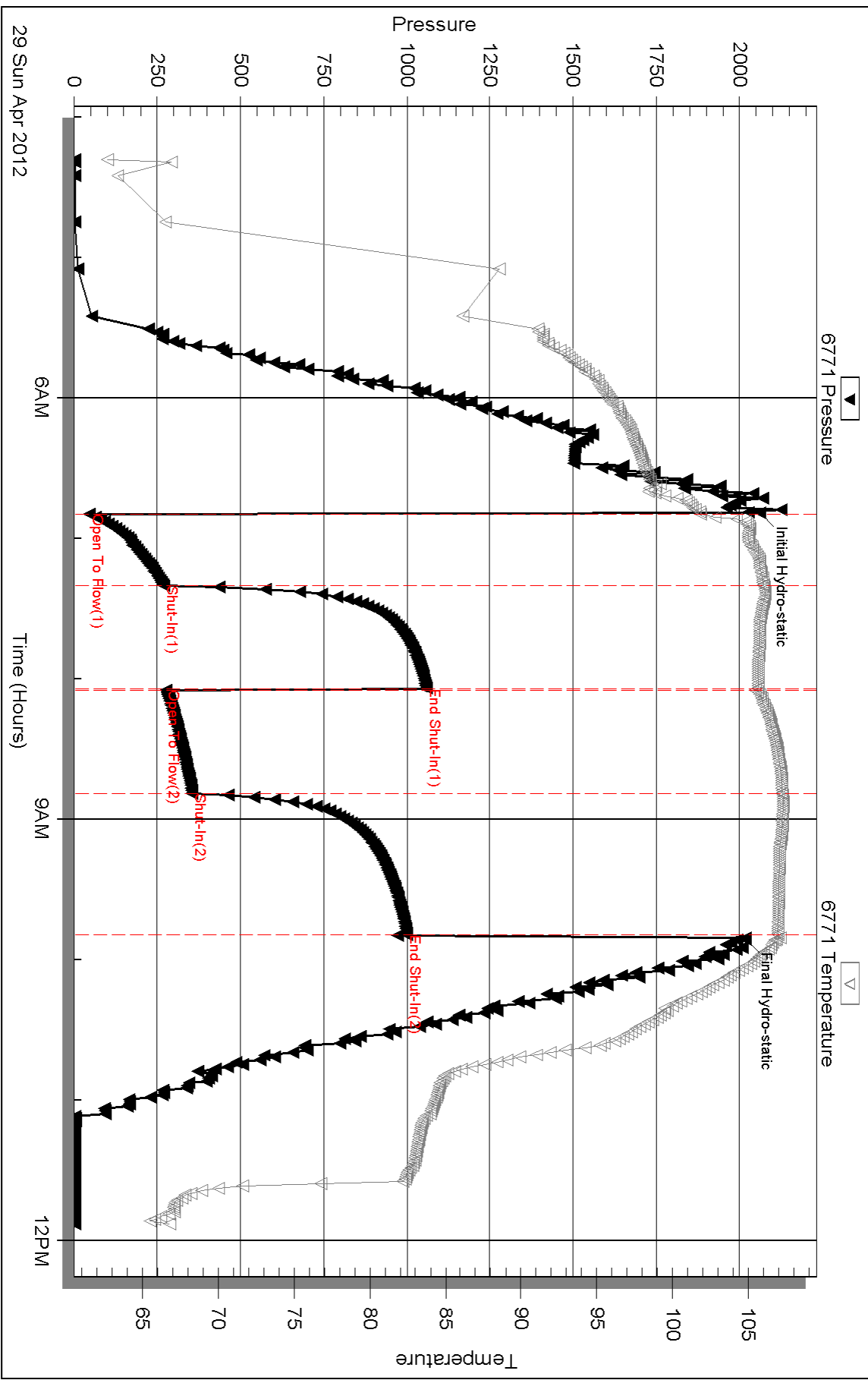
Total Length: 650.00 ft      Total Volume: 4.280 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .227 @ 69°F=30,000

### Pressure vs. Time



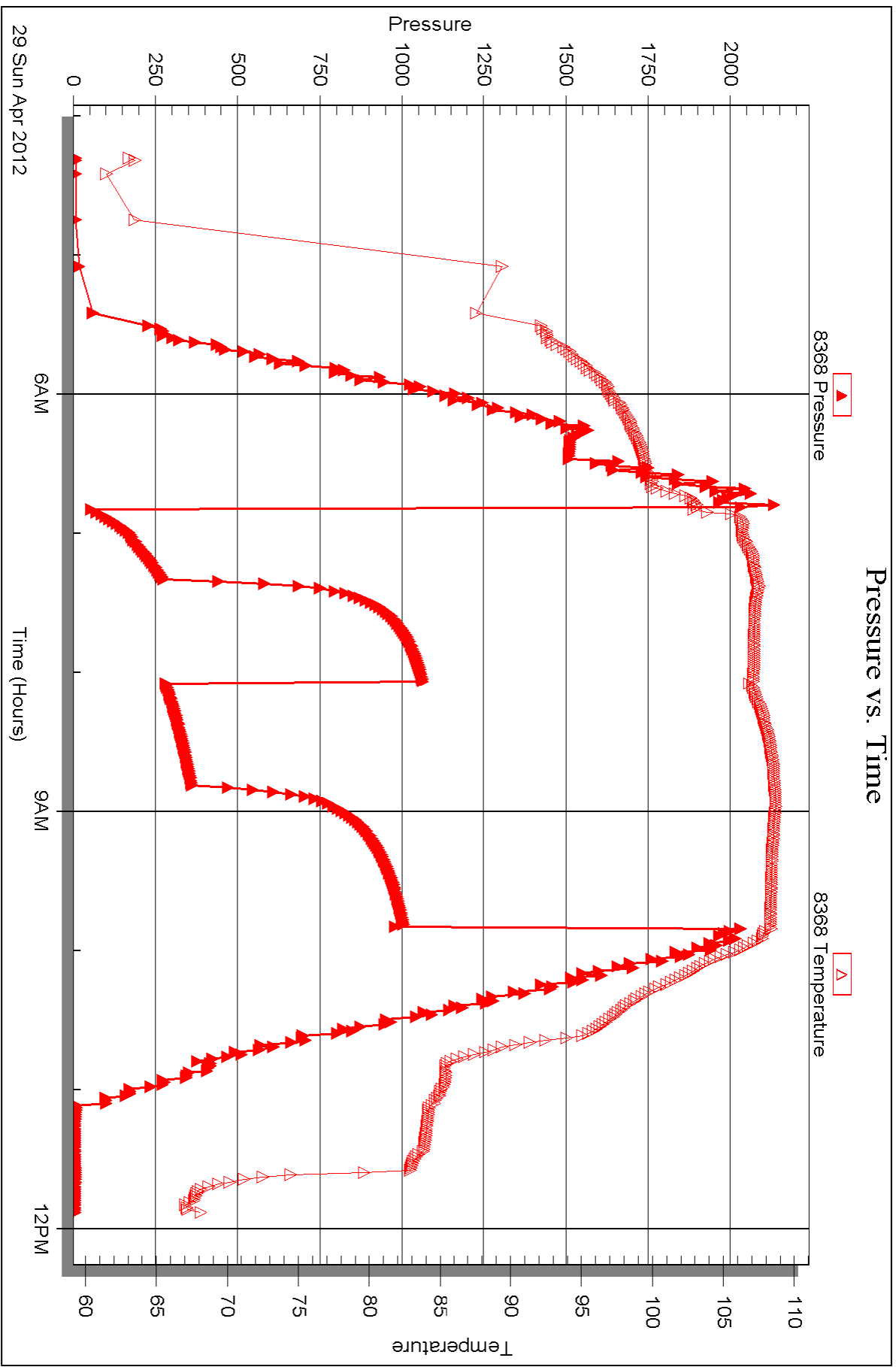
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46471

Printed: 2012.05.10 @ 14:59:24



## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.04.29 @ 20:05:15

End Date: 2012.04.30 @ 03:55:30

Job Ticket #: 46472                      DST #: 4

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

Printed: 2012.05.10 @ 14:57:55



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
 PO Box 783188  
 Wichita, KS 67278  
 ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 46472

**DST#: 4**

Test Start: 2012.04.29 @ 20:05:15

## GENERAL INFORMATION:

Formation: **Lansing G**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 22:29:45

Time Test Ended: 03:55:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

Interval: **4206.00 ft (KB) To 4234.00 ft (KB) (TVD)**

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4234.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6771 Outside**

Press @ Run Depth: 610.26 psig @ 4207.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.29

End Date: 2012.04.30

Last Calib.: 2012.04.30

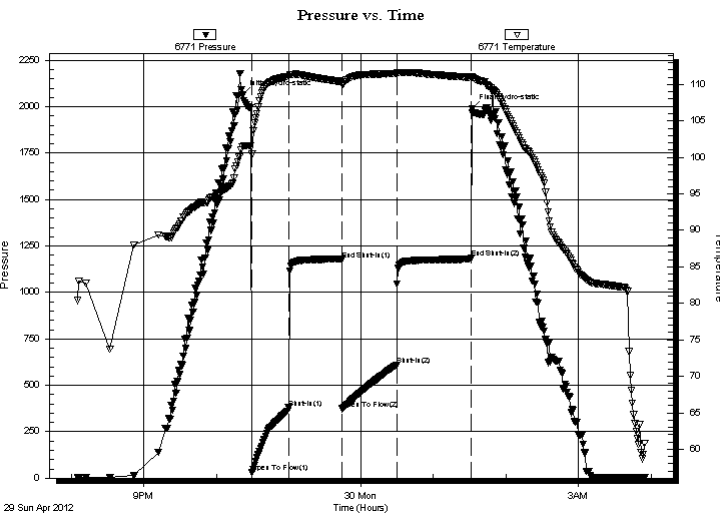
Start Time: 20:05:15

End Time: 03:55:30

Time On Btm: 2012.04.29 @ 22:21:45

Time Off Btm: 2012.04.30 @ 01:32:00

TEST COMMENT: B.O.B 7 min  
 No return  
 B.O.B 9 min  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.30	101.51	Initial Hydro-static
8	32.52	100.44	Open To Flow (1)
38	378.73	111.10	Shut-In(1)
83	1176.26	110.38	End Shut-In(1)
83	374.03	110.03	Open To Flow (2)
128	610.26	111.45	Shut-In(2)
190	1183.68	110.98	End Shut-In(2)
191	1987.79	111.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
900.00	W 100%	7.79
300.00	MCW M40% W60%	4.21

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46472

**DST#: 4**

ATTN: Max Lovely

Test Start: 2012.04.29 @ 20:05:15

## Tool Information

Drill Pipe:	Length: 3681.00 ft	Diameter: 3.80 inches	Volume: 51.63 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: 30000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4206.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 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			4187.00	
Shut In Tool	5.00			4192.00	
Hydraulic tool	5.00			4197.00	
Packer	5.00			4202.00	20.00 Bottom Of Top Packer
Packer	4.00			4206.00	
Stubb	1.00			4207.00	
Recorder	0.00	6771	Outside	4207.00	
Recorder	0.00	8368	Inside	4207.00	
Perforations	22.00			4229.00	
Bullnose	5.00			4234.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46472

**DST#: 4**

ATTN: Max Lovely

Test Start: 2012.04.29 @ 20:05:15

## 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:

80000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.62 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
900.00	W 100%	7.787
300.00	MCW M40% W60%	4.208

Total Length: 1200.00 ft      Total Volume: 11.995 bbl

Num Fluid Samples: 0

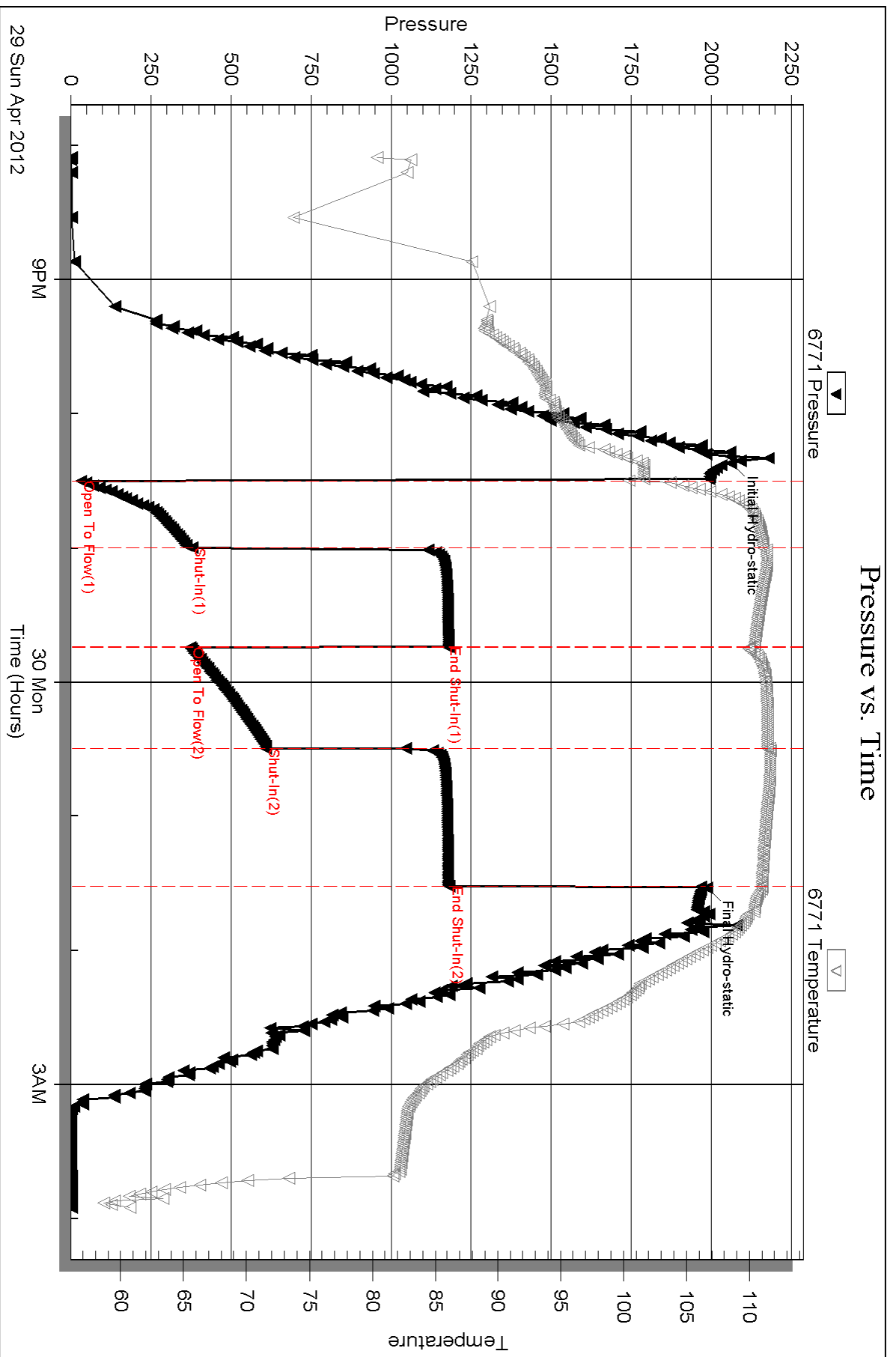
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .271@54°F=80,000



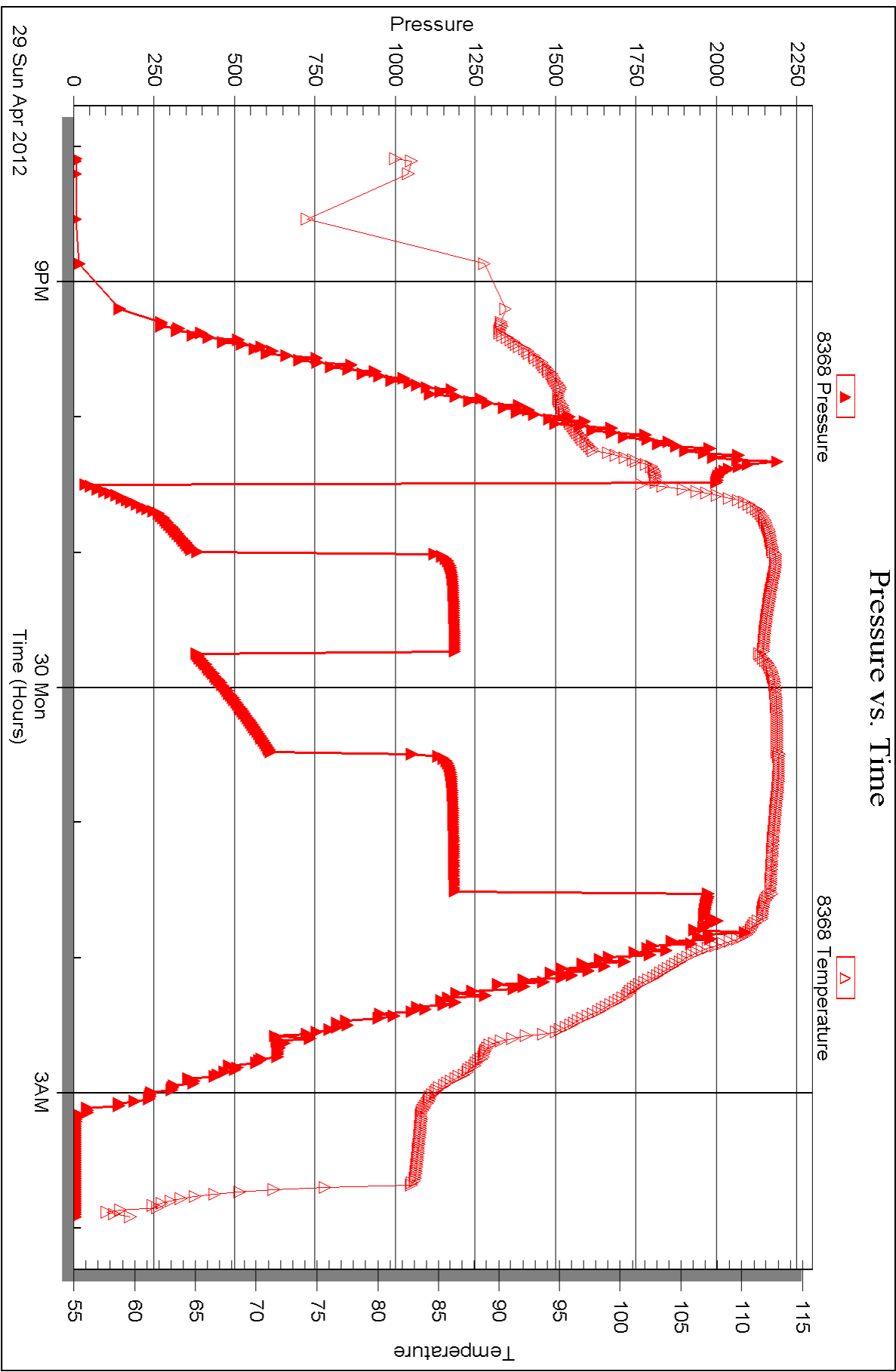
Serial #: 8368

Inside

Richie Exploration

Simons #1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.04.30 @ 17:38:15

End Date: 2012.04.30 @ 23:40:30

Job Ticket #: 46474                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:56:13



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 46474

**DST#: 5**

Test Start: 2012.04.30 @ 17:38:15

## GENERAL INFORMATION:

Formation: **Lansing H,I**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:48:30

Time Test Ended: 23:40:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

**Interval: 4254.00 ft (KB) To 4323.00 ft (KB) (TVD)**

Total Depth: 4323.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6771 Outside**

Press @ Run Depth: 49.39 psig @ 4255.00 ft (KB)

Start Date: 2012.04.30

End Date: 2012.04.30

Start Time: 17:38:15

End Time: 23:40:30

Capacity: 8000.00 psig

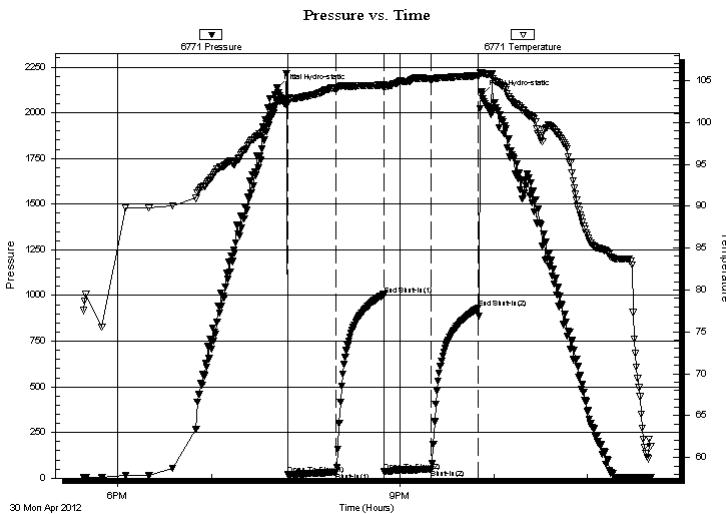
Last Calib.: 2012.04.30

Time On Btm: 2012.04.30 @ 19:41:45

Time Off Btm: 2012.04.30 @ 21:52:30

**TEST COMMENT:** Surface blow  
No return  
No blow, Flushed tool, w eak surface blow died after 10 minutes.  
No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.73	102.37	Initial Hydro-static
7	20.03	102.31	Open To Flow (1)
38	31.48	104.09	Shut-In(1)
68	1004.97	104.47	End Shut-In(1)
69	35.24	104.12	Open To Flow (2)
99	49.39	105.17	Shut-In(2)
129	930.73	105.59	End Shut-In(2)
131	2100.01	105.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	M 100%	0.10

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46474

**DST#: 5**

ATTN: Max Lovely

Test Start: 2012.04.30 @ 17:38:15

## Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 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:	30000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 54.71 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	81000.00 lb
Depth to Top Packer:	4254.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: Flushed tool on second open

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4235.00	
Shut In Tool	5.00			4240.00	
Hydraulic tool	5.00			4245.00	
Packer	5.00			4250.00	20.00 Bottom Of Top Packer
Packer	4.00			4254.00	
Stubb	1.00			4255.00	
Recorder	0.00	6771	Outside	4255.00	
Recorder	0.00	8368	Inside	4255.00	
Perforations	30.00			4285.00	
Change Over Sub	1.00			4286.00	
Drill Pipe	31.00			4317.00	
Change Over Sub	1.00			4318.00	
Bullnose	5.00			4323.00	69.00 Bottom Packers & Anchor

**Total Tool Length: 89.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration

**14-17s-35w Wichita, KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46474

**DST#: 5**

ATTN: Max Lovely

Test Start: 2012.04.30 @ 17:38:15

## 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: 5.60 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.86 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M 100%	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

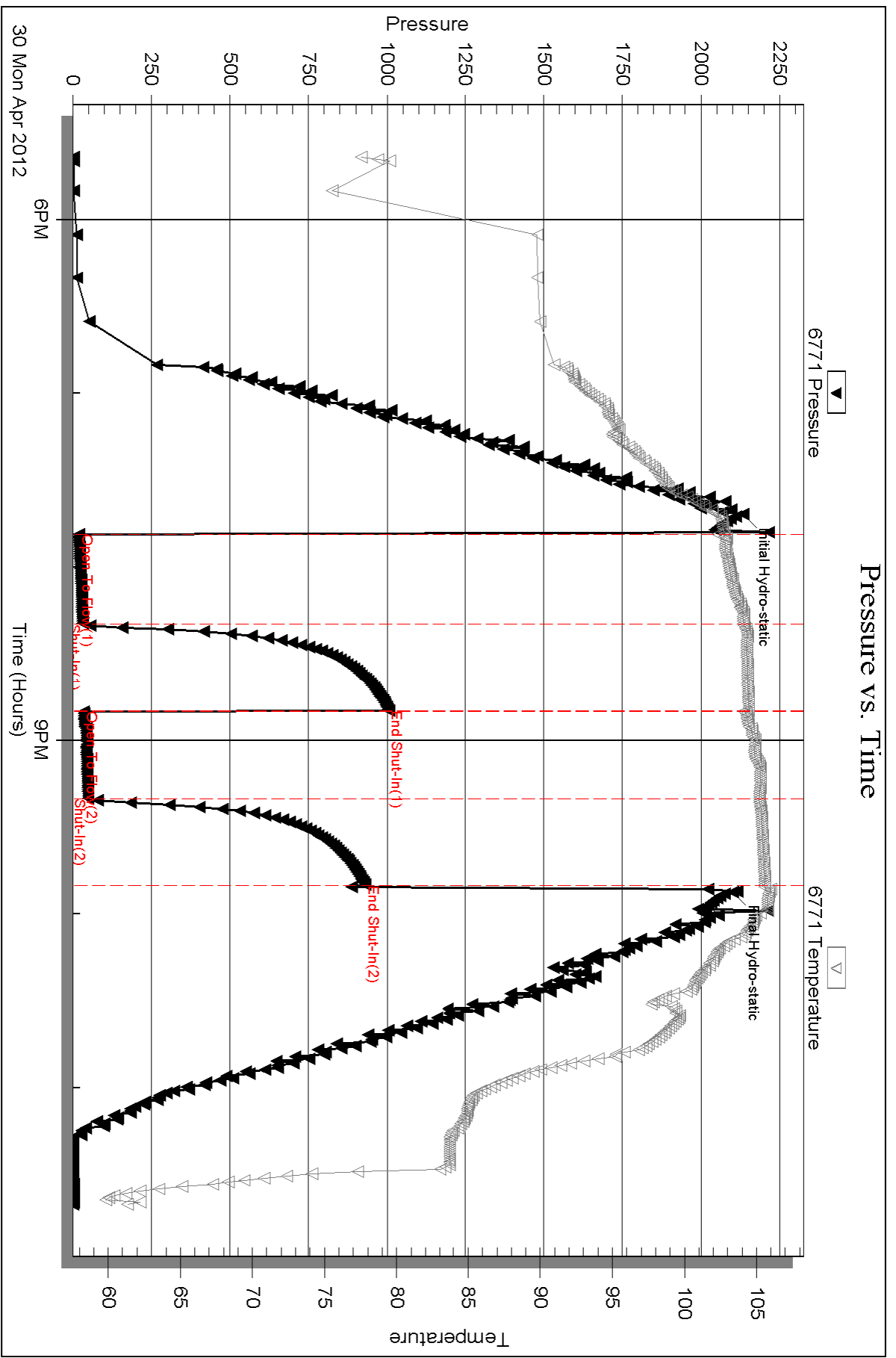
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



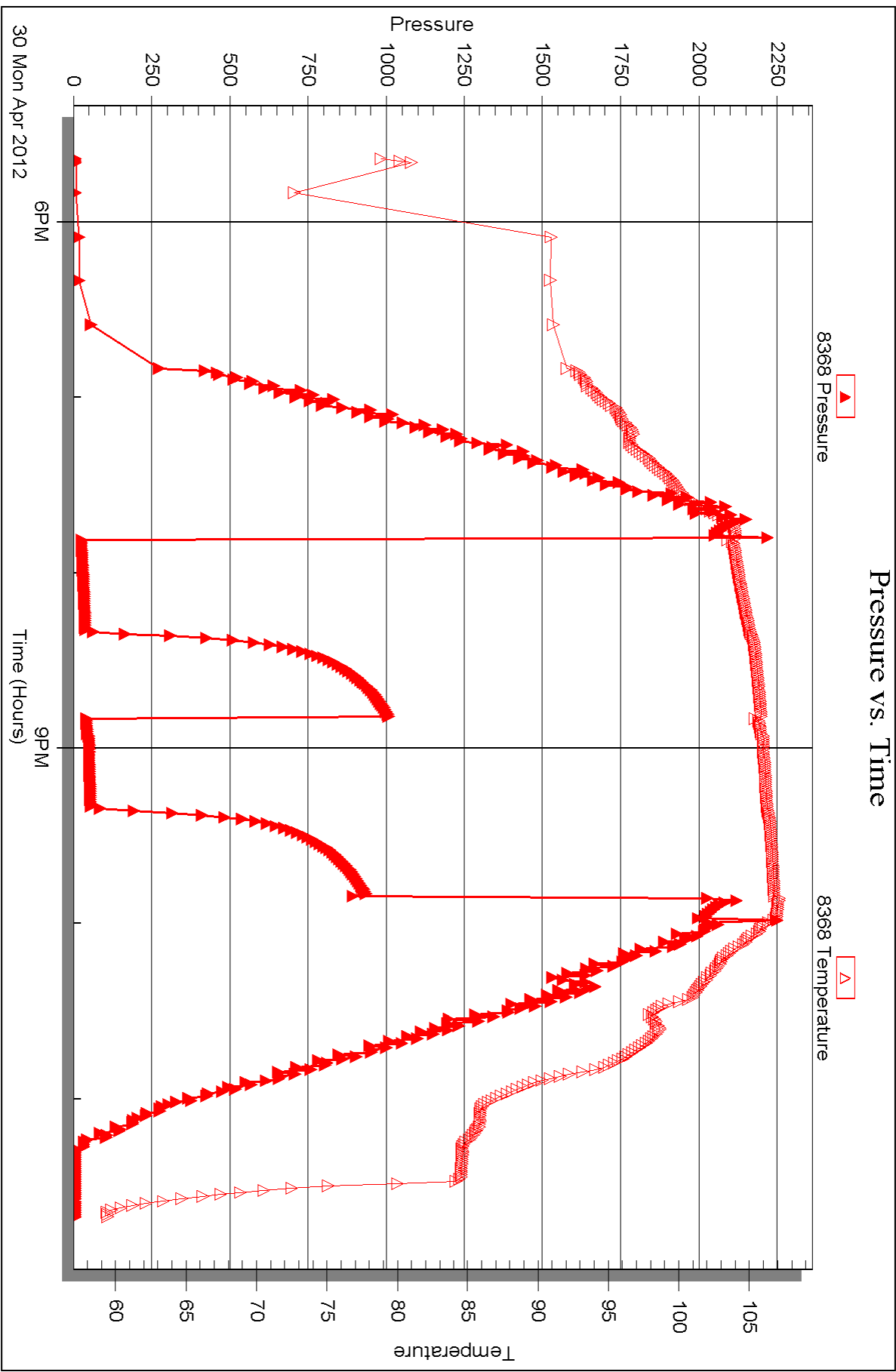
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.05.01 @ 07:54:15

End Date: 2012.05.01 @ 16:11:00

Job Ticket #: 46576                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:55:31



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
 PO Box 783188  
 Wichita, KS 67278  
 ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 46576

**DST#: 6**

Test Start: 2012.05.01 @ 07:54:15

## GENERAL INFORMATION:

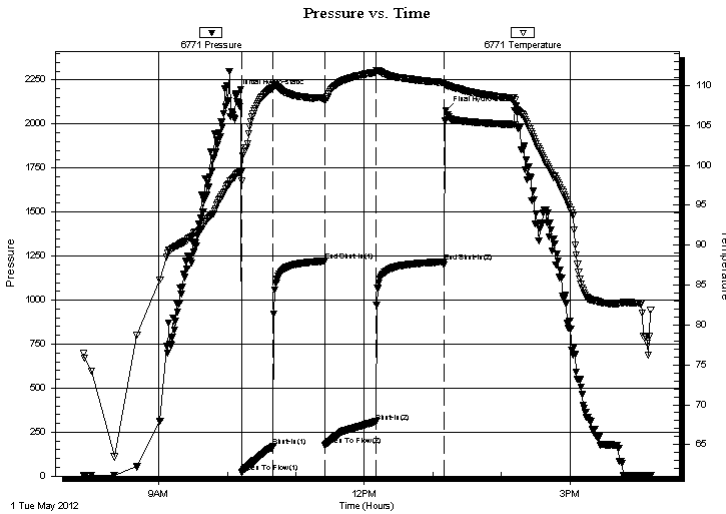
Formation: **Lansing J**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 10:12:30  
 Time Test Ended: 16:11:00  
 Interval: **4327.00 ft (KB) To 4351.00 ft (KB) (TVD)**  
 Total Depth: 4351.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cole Archibald  
 Unit No: 55  
 Reference Elevations: 3177.00 ft (KB)  
 3167.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6771 Outside**

Press @ Run Depth: 308.73 psig @ 4328.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.01 End Date: 2012.05.01 Last Calib.: 2012.05.01  
 Start Time: 07:54:15 End Time: 16:11:00 Time On Btm: 2012.05.01 @ 10:07:30  
 Time Off Btm: 2012.05.01 @ 13:11:45

**TEST COMMENT:** Built to 8 inch  
 No return  
 Built to 5 inch  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.24	98.76	Initial Hydro-static
5	22.15	97.99	Open To Flow (1)
33	168.40	109.76	Shut-In(1)
78	1221.40	108.28	End Shut-In(1)
79	173.71	108.12	Open To Flow (2)
123	308.73	111.63	Shut-In(2)
182	1217.21	110.36	End Shut-In(2)
185	2075.13	110.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
450.00	W 100%	2.21
210.00	MCW 10% M 90% W	2.21

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46576

**DST#: 6**

ATTN: Max Lovely

Test Start: 2012.05.01 @ 07:54:15

## Tool Information

Drill Pipe:	Length: 3777.00 ft	Diameter: 3.80 inches	Volume: 52.98 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: 30000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.59 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4327.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			4308.00	
Shut In Tool	5.00			4313.00	
Hydraulic tool	5.00			4318.00	
Packer	5.00			4323.00	20.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Recorder	0.00	6667	Outside	4328.00	
Recorder	0.00	8368	Inside	4328.00	
Perforations	18.00			4346.00	
Bullnose	5.00			4351.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita,KS**  
**Simons #1**  
Job Ticket: 46576      **DST#: 6**  
Test Start: 2012.05.01 @ 07:54:15

**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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.89 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
450.00	W 100%	2.213
210.00	MCW 10% M 90% W	2.208

Total Length: 660.00 ft      Total Volume: 4.421 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .271 @ 54°F=80,000chl

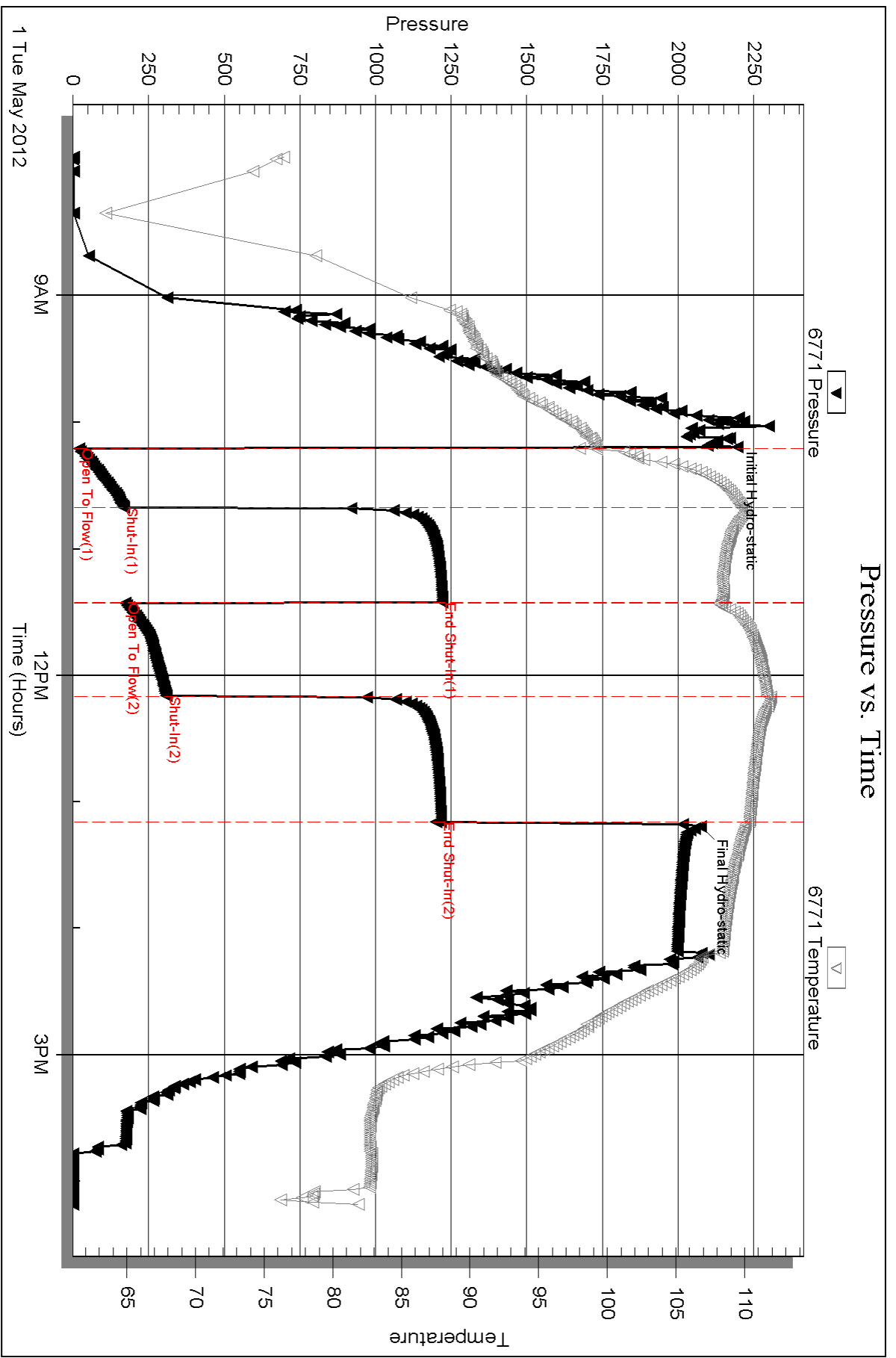


Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 6

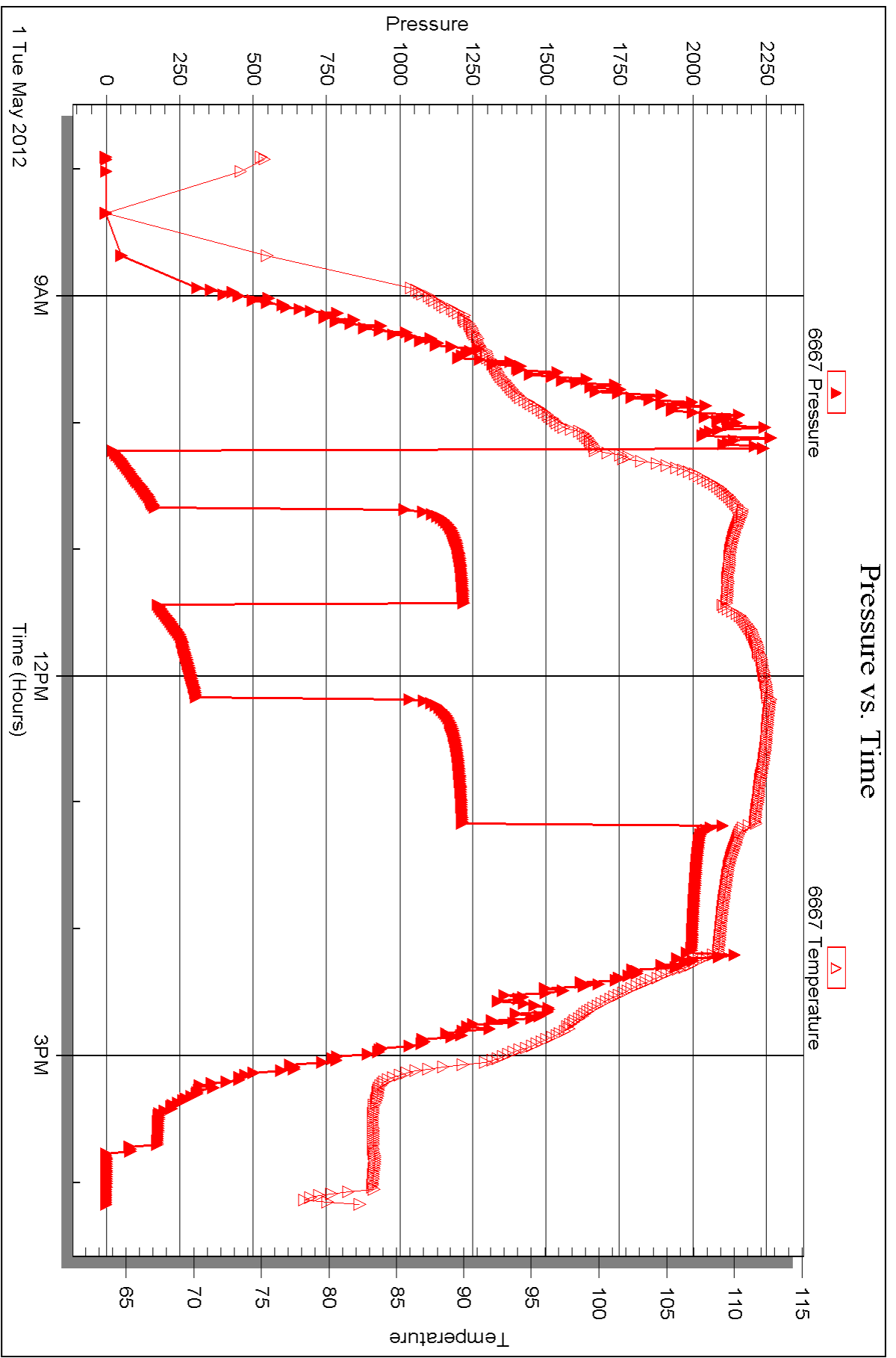


Serial #: 6667

Outside Ritchie Exploration

Simons #1

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 46576

Printed: 2012.05.10 @ 14:55:34



## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.05.01 @ 23:35:15

End Date: 2012.05.02 @ 09:42:00

Job Ticket #: 46578                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:54:31

Ritchie Exploration  
14-17s-35w Wichita,KS  
Simons #1  
DST # 7  
Lansing K  
2012.05.01



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 46578

**DST#: 7**

Test Start: 2012.05.01 @ 23:35:15

## GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:43:00

Time Test Ended: 09:42:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

**Interval: 4350.00 ft (KB) To 4377.00 ft (KB) (TVD)**

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4377.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6667 Outside**

Press @ Run Depth: 133.80 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.01

End Date:

2012.05.02

Last Calib.: 2012.05.02

Start Time: 23:35:15

End Time:

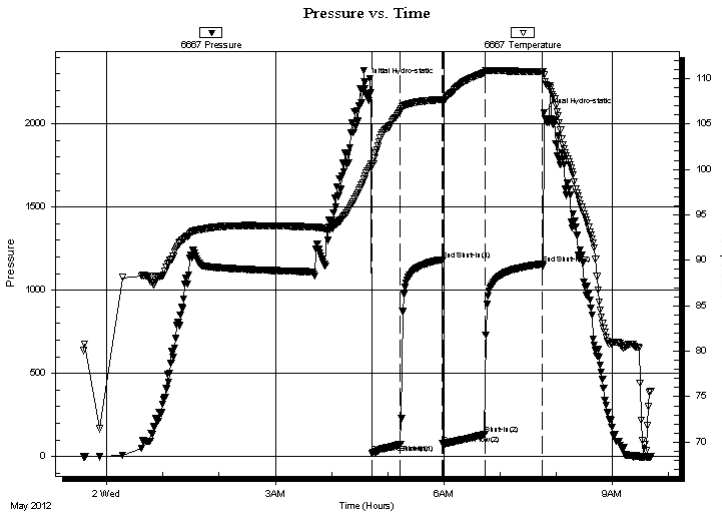
09:42:00

Time On Btm: 2012.05.02 @ 04:35:15

Time Off Btm: 2012.05.02 @ 07:47:15

**TEST COMMENT:** Built to 1 1/4 inch  
No return  
Built to 1 1/4 inch  
No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.80	98.97	Initial Hydro-static
8	20.60	100.33	Open To Flow (1)
39	72.34	106.39	Shut-In(1)
84	1184.07	107.69	End Shut-In(1)
84	77.68	107.35	Open To Flow (2)
129	133.80	110.64	Shut-In(2)
191	1158.65	110.72	End Shut-In(2)
192	2068.91	110.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MWCO 30%O 30%W 40%M	0.44
90.00	OCM 10%O 90%M	0.44
90.00	MCO 80%O 20%M	0.44
95.00	MCO 90%O 10%M	0.47

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46578

**DST#: 7**

ATTN: Max Lovely

Test Start: 2012.05.01 @ 23:35:15

## Tool Information

Drill Pipe:	Length: 3807.00 ft	Diameter: 3.80 inches	Volume: 53.40 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: 30000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.01 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4350.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 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			4331.00	
Shut In Tool	5.00			4336.00	
Hydraulic tool	5.00			4341.00	
Packer	5.00			4346.00	20.00 Bottom Of Top Packer
Packer	4.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	6667	Outside	4351.00	
Recorder	0.00	8368	Inside	4351.00	
Perforations	21.00			4372.00	
Bullnose	5.00			4377.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita,KS**  
**Simons #1**  
Job Ticket: 46578      **DST#: 7**  
Test Start: 2012.05.01 @ 23:35:15

## Mud and Cushion Information

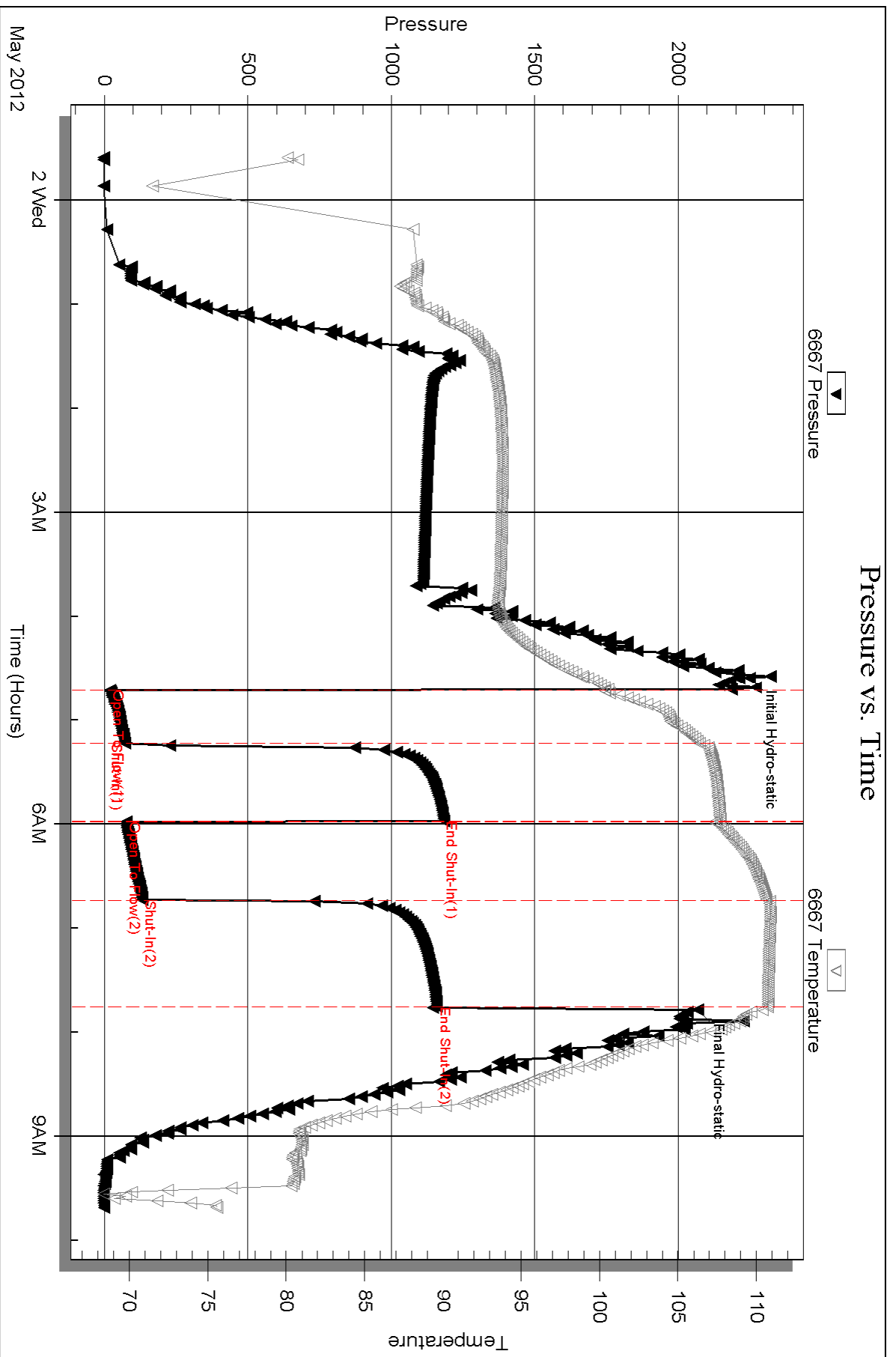
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.90 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MWCO 30%O 30%W 40%M	0.443
90.00	OCM 10%O 90%M	0.443
90.00	MCO 80%O 20%M	0.443
95.00	MCO 90%O 10%M	0.467

Total Length: 365.00 ft      Total Volume: 1.796 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .286 @ 70\*f=60,000



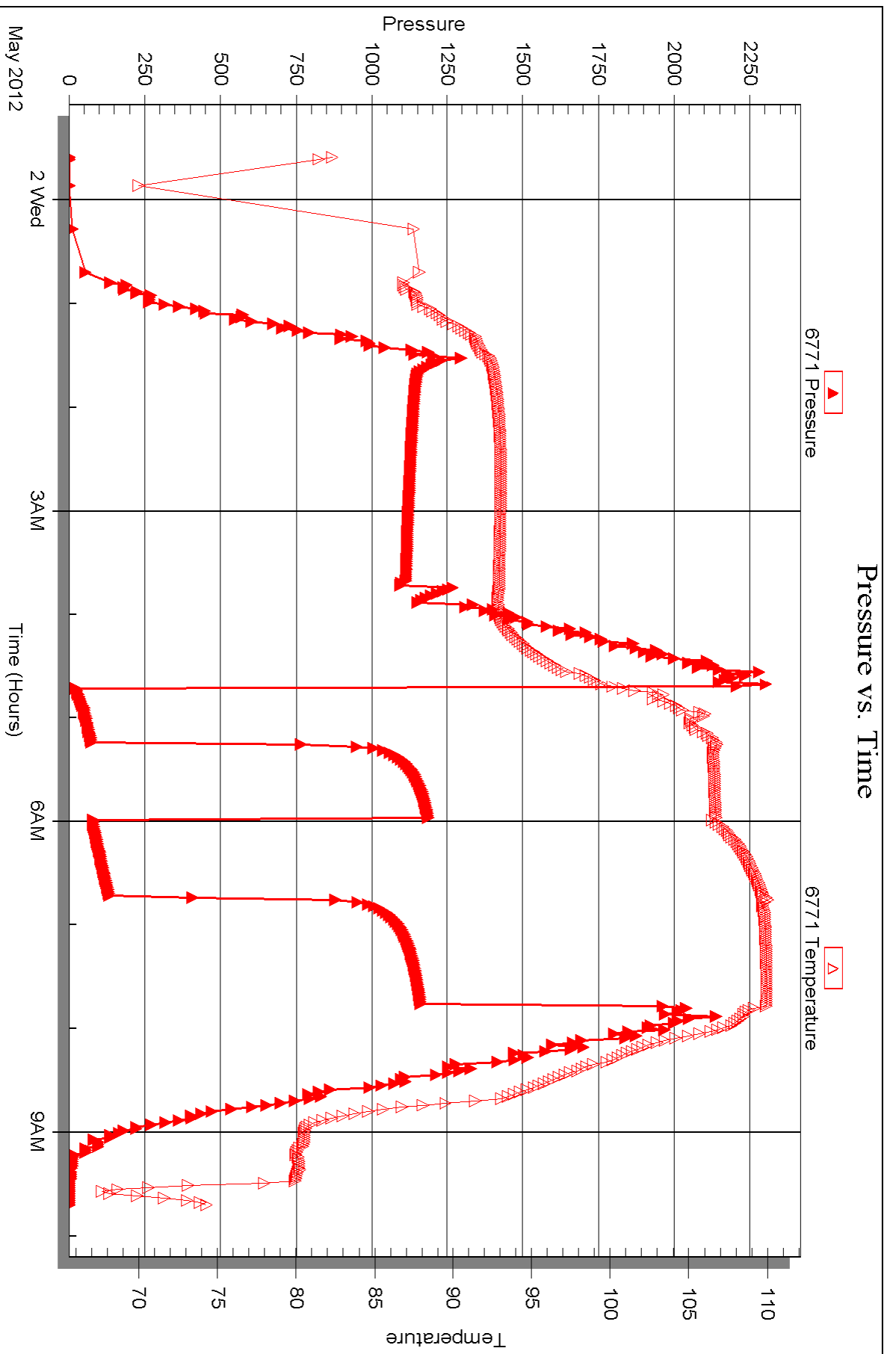


Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 7





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.05.02 @ 17:07:15

End Date: 2012.05.02 @ 01:00:00

Job Ticket #: 46579                      DST #: 8

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

Printed: 2012.05.10 @ 14:48:48



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 46579

**DST#: 8**

Test Start: 2012.05.02 @ 17:07:15

## GENERAL INFORMATION:

Formation: **Base Lansing K**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:50:00

Time Test Ended: 01:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

**Interval: 4375.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Total Depth: 4400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6771 Outside**

Press @ Run Depth: 295.75 psig @ 4376.00 ft (KB)

Start Date: 2012.05.02

End Date: 2012.05.03

Start Time: 18:07:15

End Time: 01:00:00

Capacity: 8000.00 psig

Last Calib.: 2012.05.03

Time On Btm: 2012.05.02 @ 20:18:45

Time Off Btm: 2012.05.02 @ 23:06:15

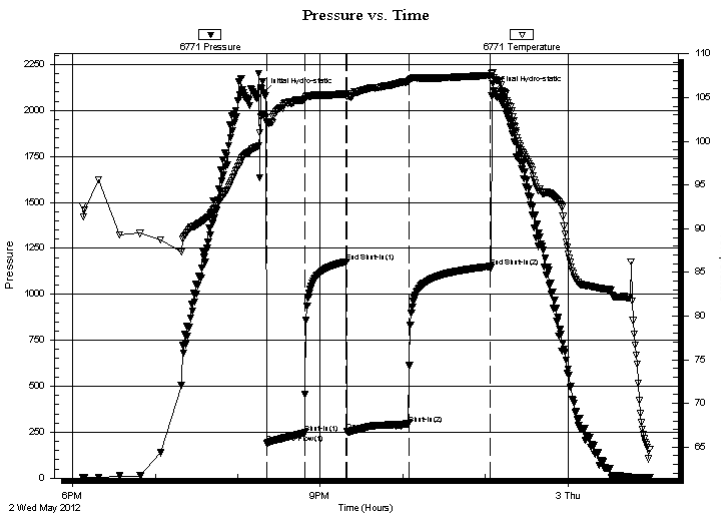
**TEST COMMENT:** lost packer seat took on approx 100 feet of mud, reset packers, built to 1/4 inch.

No return.

Built to 1/2 inch.

No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.91	102.97	Initial Hydro-static
3	187.87	102.10	Open To Flow (1)
30	246.37	104.78	Shut-In(1)
61	1176.49	105.41	End Shut-In(1)
61	253.58	105.13	Open To Flow (2)
106	295.75	106.83	Shut-In(2)
165	1149.63	107.54	End Shut-In(2)
168	2106.09	107.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMCO 5%M 25%G 75%O	0.44
90.00	GOCM 15%G 30%O 55%M	0.44
90.00	GOCM 5%G 15%O 80%M	0.44
300.00	M 100% M	1.83

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita, KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 46579

**DST#: 8**

ATTN: Max Lovely

Test Start: 2012.05.02 @ 17:07:15

## Tool Information

Drill Pipe:	Length: 3827.00 ft	Diameter: 3.80 inches	Volume: 53.68 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: 30000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 56.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4375.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Packer	5.00			4371.00	20.00 Bottom Of Top Packer
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Recorder	0.00	6771	Outside	4376.00	
Recorder	0.00	8368	Inside	4376.00	
Perforations	19.00			4395.00	
Bullnose	5.00			4400.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita,KS**  
**Simons #1**  
Job Ticket: 46579  
Test Start: 2012.05.02 @ 17:07:15

**DST#: 8**

## 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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.48 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GMCO 5%M 25%G 75%O	0.443
90.00	GOCM 15%G 30%O 55%M	0.443
90.00	GOCM 5%G 15%O 80%M	0.443
300.00	M 100% M	1.831

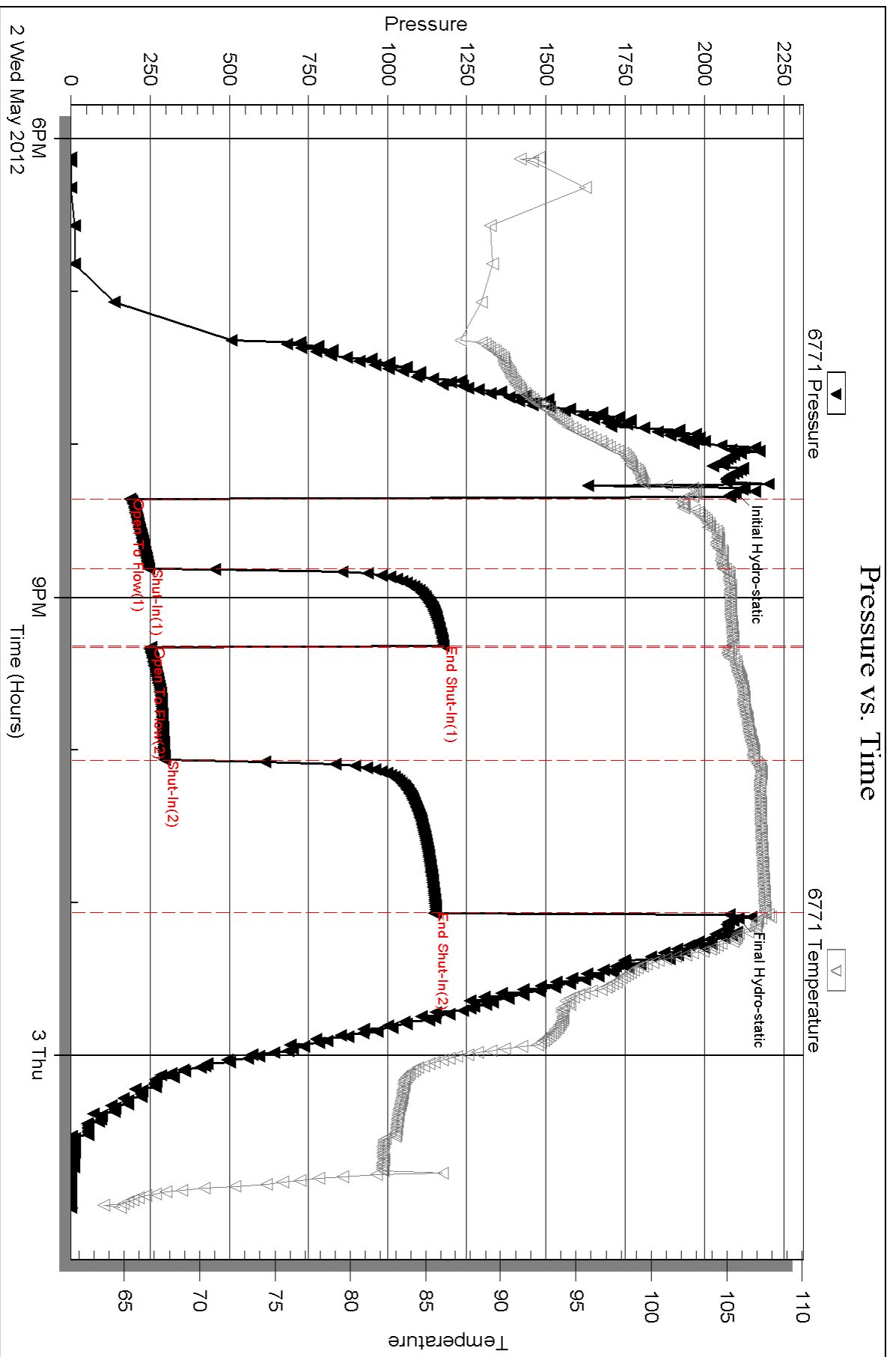
Total Length: 570.00 ft      Total Volume: 3.160 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 8



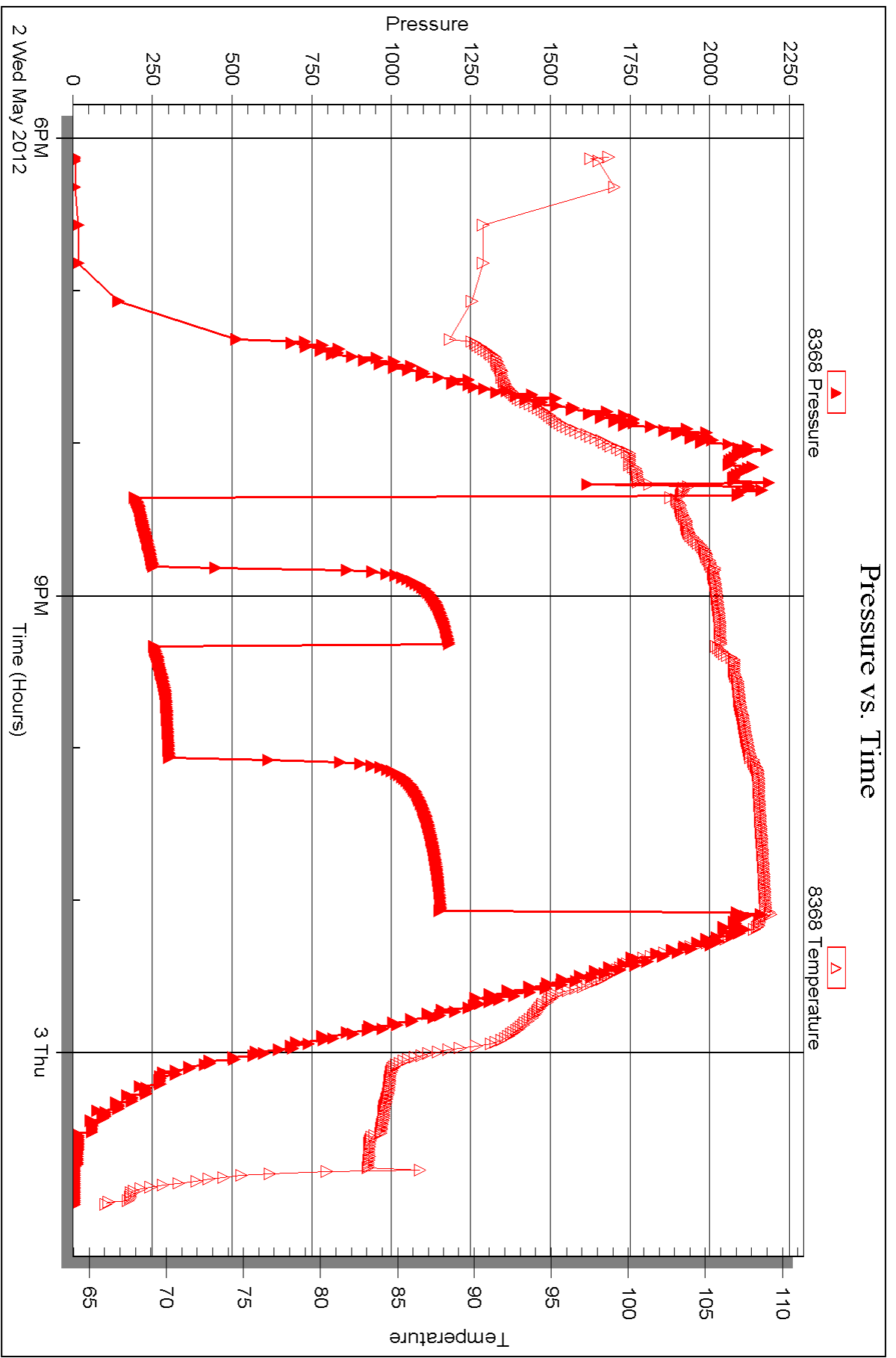
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 8



Triobite Testing, Inc

Ref. No: 46579

Printed: 2012.05.10 @ 14:48:51





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.05.03 @ 20:12:53

End Date: 2012.05.04 @ 03:35:38

Job Ticket #: 45868                      DST #: 9

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:48:02



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
 PO Box 783188  
 Wichita, KS 67278  
 ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 45868

**DST#: 9**

Test Start: 2012.05.03 @ 20:12:53

## GENERAL INFORMATION:

Formation: **Altamont**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 22:24:53  
 Time Test Ended: 03:35:38  
 Interval: **4476.00 ft (KB) To 4520.00 ft (KB) (TVD)**  
 Total Depth: 4520.00 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: 3177.00 ft (KB)  
 3167.00 ft (CF)  
 KB to GR/CF: 10.00 ft

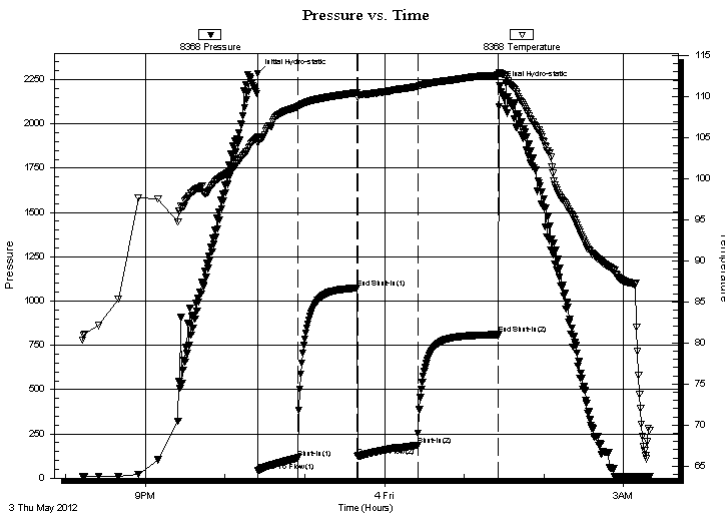
## Serial #: 8368

Inside

Press @ Run Depth: 186.62 psig @ 4477.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.03 End Date: 2012.05.04 Last Calib.: 2012.05.04  
 Start Time: 20:12:53 End Time: 03:19:38 Time On Btm: 2012.05.03 @ 22:24:38  
 Time Off Btm: 2012.05.04 @ 01:26:38

TEST COMMENT: 2" blow  
 No return  
 1" blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.83	105.09	Initial Hydro-static
1	41.50	104.41	Open To Flow (1)
30	114.12	108.74	Shut-In(1)
75	1073.05	110.50	End Shut-In(1)
75	123.46	109.88	Open To Flow (2)
121	186.62	111.24	Shut-In(2)
181	810.77	112.61	End Shut-In(2)
182	2216.28	112.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	s w c m 15%w 85%m	0.47
180.00	w c m 40%w 60%m	0.89

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45868

**DST#: 9**

ATTN: Max Lovely

Test Start: 2012.05.03 @ 20:12:53

## Tool Information

Drill Pipe:	Length: 3939.00 ft	Diameter: 3.80 inches	Volume: 55.25 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 57.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4476.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4457.00	
Shut In Tool	5.00			4462.00	
Hydraulic tool	5.00			4467.00	
Packer	5.00			4472.00	20.00 Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Recorder	0.00	6771	Outside	4477.00	
Recorder	0.00	8368	Inside	4477.00	
Perforations	4.00			4481.00	
Change Over Sub	1.00			4482.00	
Drill Pipe	32.00			4514.00	
Change Over Sub	1.00			4515.00	
Bullnose	5.00			4520.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita,KS**  
**Simons #1**  
Job Ticket: 45868  
Test Start: 2012.05.03 @ 20:12:53

**DST#: 9**

## 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: 42000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.71 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 8000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

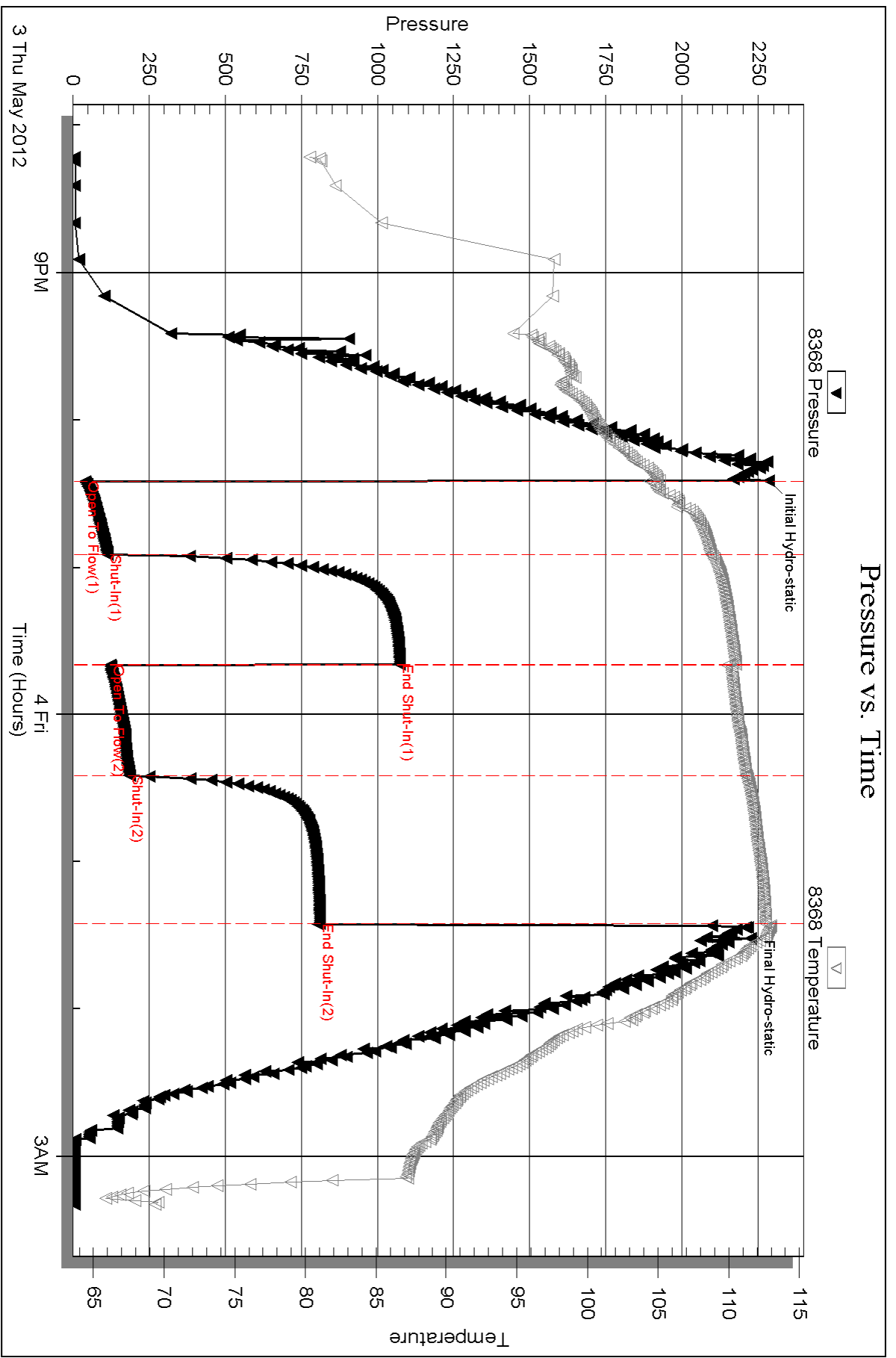
Length ft	Description	Volume bbl
95.00	s w c m 15%w 85%m	0.467
180.00	w c m 40%w 60%m	0.885

Total Length: 275.00 ft      Total Volume: 1.352 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw .198 @ 59\*f = 42,000 chlor

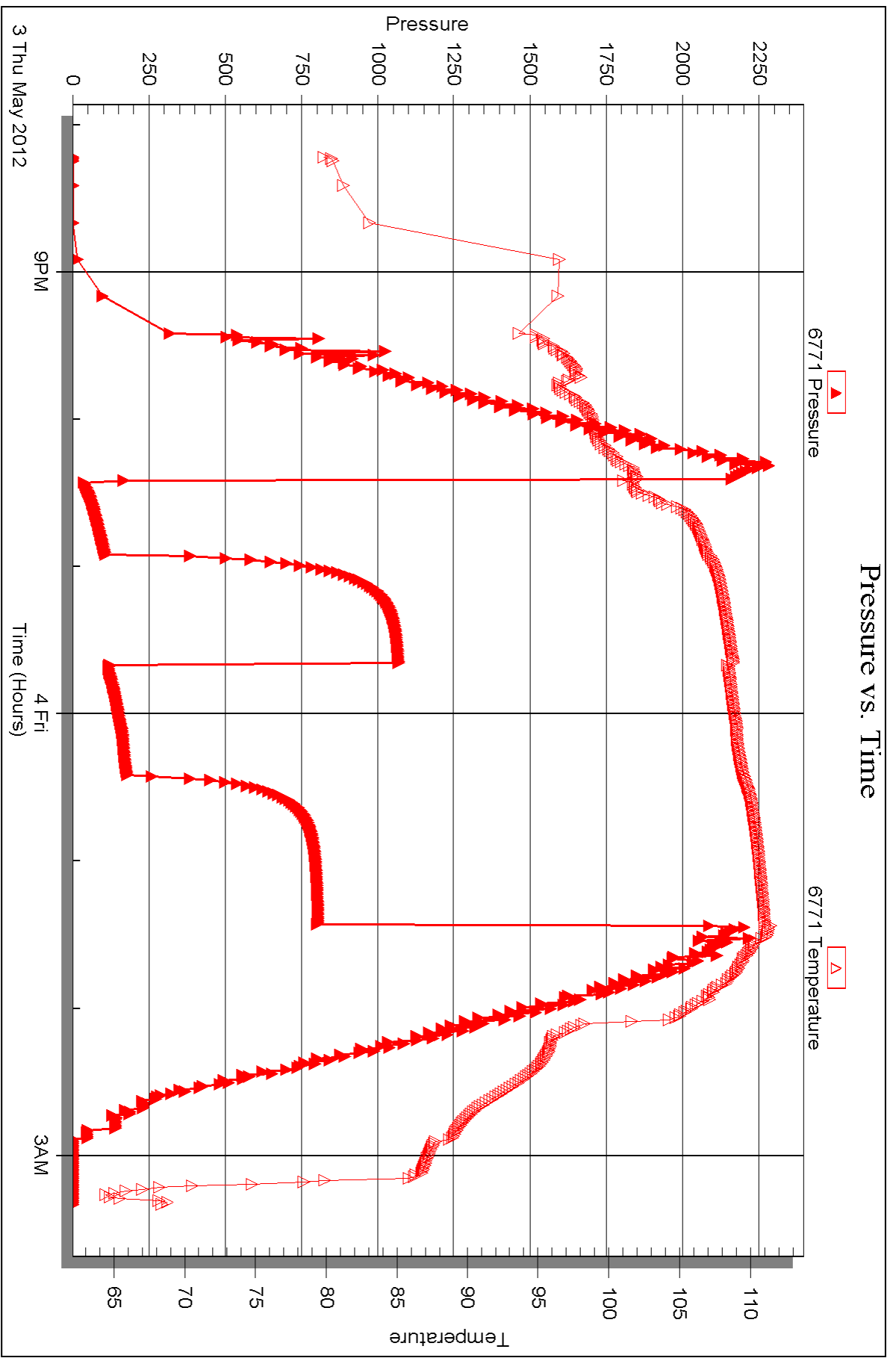


Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 9





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.05.04 @ 11:55:26

End Date: 2012.05.04 @ 19:10:56

Job Ticket #: 45869                      DST #: 10

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

Printed: 2012.05.10 @ 14:46:22





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
 PO Box 783188  
 Wichita, KS 67278  
 ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 45869

**DST#: 10**

Test Start: 2012.05.04 @ 11:55:26

## GENERAL INFORMATION:

Formation: **Altamont B**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 14:08:56  
 Time Test Ended: 19:10:56  
 Interval: **4522.00 ft (KB) To 4543.00 ft (KB) (TVD)**  
 Total Depth: 4543.00 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: 3177.00 ft (KB)  
 3167.00 ft (CF)  
 KB to GR/CF: 10.00 ft

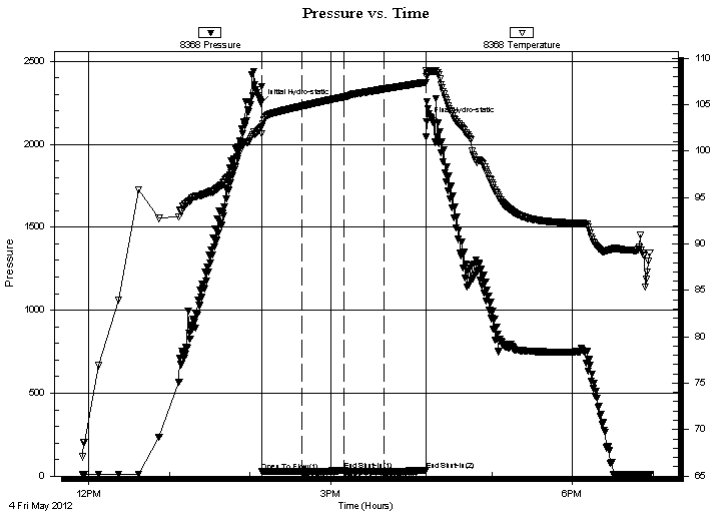
## Serial #: 8368

Inside

Press @ Run Depth: 29.82 psig @ 4523.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.04 End Date: 2012.05.04 Last Calib.: 2012.05.04  
 Start Time: 11:55:26 End Time: 18:57:56 Time On Btm: 2012.05.04 @ 14:08:11  
 Time Off Btm: 2012.05.04 @ 16:11:26

**TEST COMMENT:** Weak blow died in 4 min.  
 No return  
 No blow ,flush tool after 5 min, good surge, no blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.69	102.57	Initial Hydro-static
1	26.44	101.87	Open To Flow (1)
31	28.38	104.87	Shut-In(1)
62	33.81	105.83	End Shut-In(1)
62	25.84	105.84	Open To Flow (2)
92	29.82	106.69	Shut-In(2)
123	34.25	107.43	End Shut-In(2)
124	2136.27	108.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	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**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45869

**DST#: 10**

ATTN: Max Lovely

Test Start: 2012.05.04 @ 11:55:26

## Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 115000.0 lb
		Total Volume: 58.76 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4522.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 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			4503.00	
Shut In Tool	5.00			4508.00	
Hydraulic tool	5.00			4513.00	
Packer	5.00			4518.00	20.00 Bottom Of Top Packer
Packer	4.00			4522.00	
Stubb	1.00			4523.00	
Recorder	0.00	6771	Outside	4523.00	
Recorder	0.00	8368	Inside	4523.00	
Perforations	15.00			4538.00	
Bullnose	5.00			4543.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration  
PO Box 783188  
Wichita, KS 67278  
ATTN: Max Lovely

**14-17s-35w Wichita,KS**  
**Simons #1**  
Job Ticket: 45869  
Test Start: 2012.05.04 @ 11:55:26

**DST#: 10**

## 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.54 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	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:

Serial #: 8368

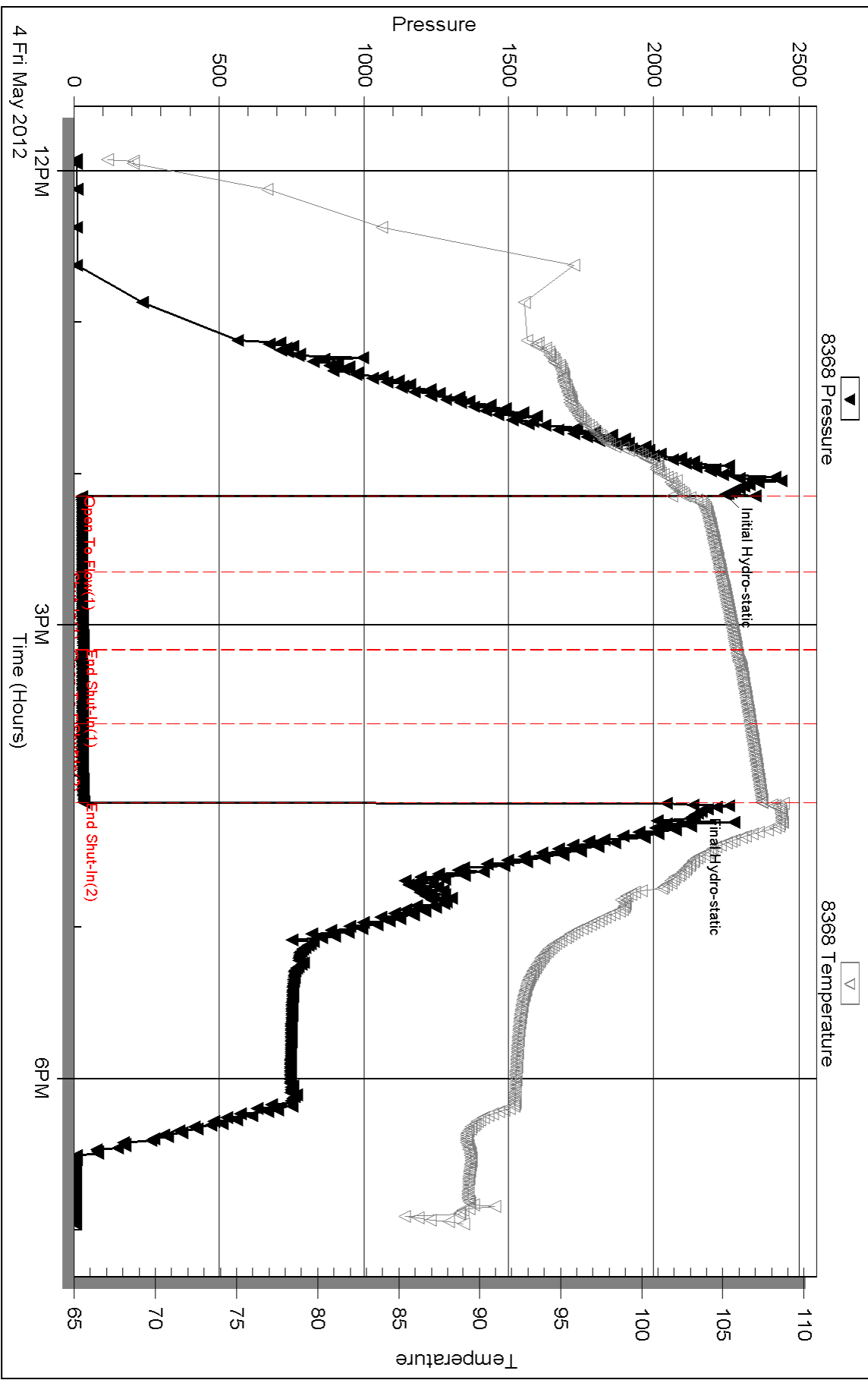
Inside

Ritchie Exploration

Simons #1

DST Test Number: 10

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45869

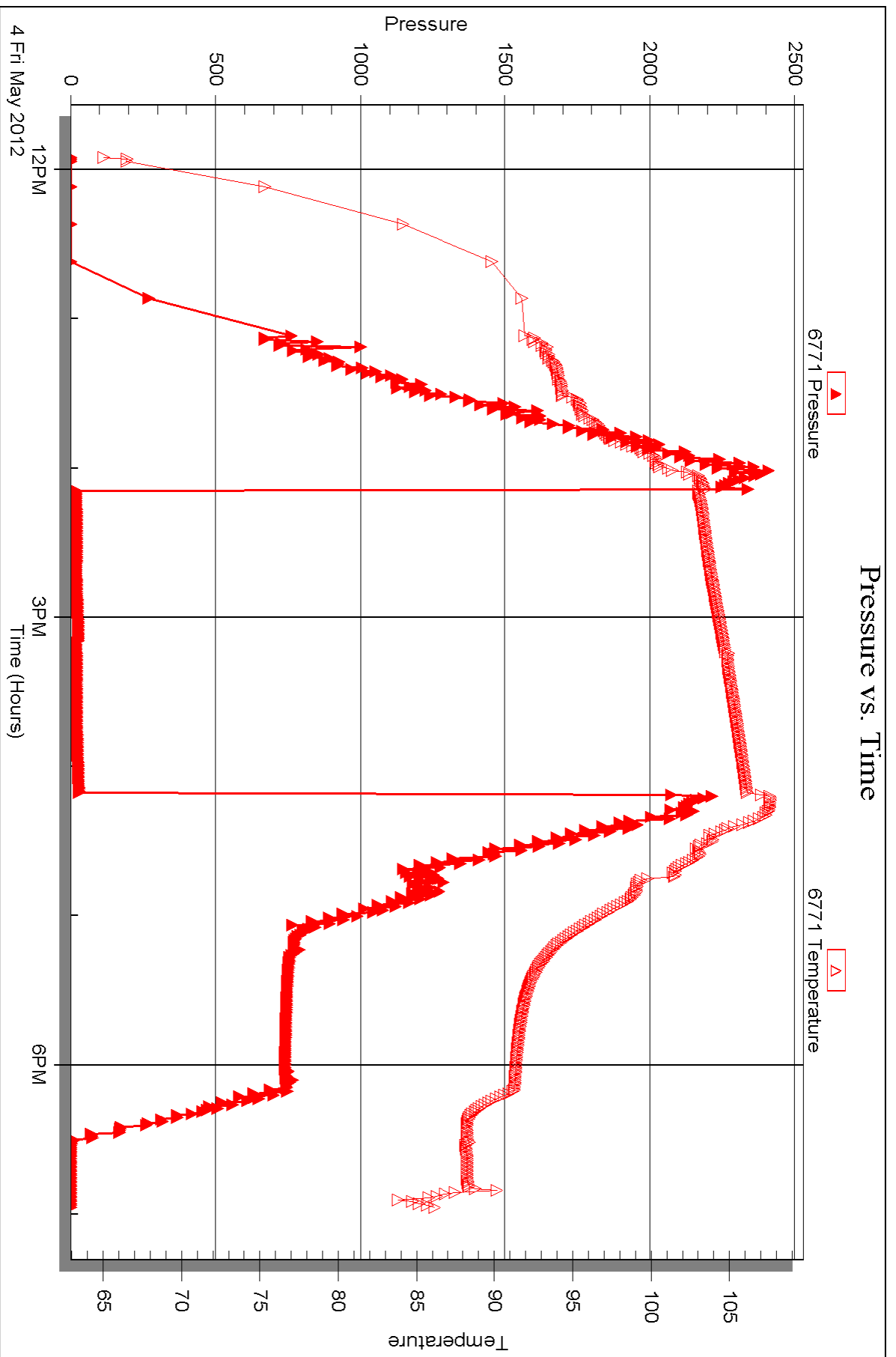
Printed: 2012.05.10 @ 14:46:24

Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 10





## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188  
Wichita, KS 67278

ATTN: Max Lovely

### **Simons #1**

#### **14-17s-35w Wichita,KS**

Start Date: 2012.05.05 @ 18:35:28

End Date: 2012.05.06 @ 00:55:13

Job Ticket #: 45870                      DST #: 11

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

Printed: 2012.05.10 @ 14:45:38



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration  
 PO Box 783188  
 Wichita, KS 67278  
 ATTN: Max Lovely

**14-17s-35w Wichita, KS**

**Simons #1**

Job Ticket: 45870

**DST#: 11**

Test Start: 2012.05.05 @ 18:35:28

## GENERAL INFORMATION:

Formation: **Altamont C**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 21:05:28

Time Test Ended: 00:55:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

**Interval: 4547.00 ft (KB) To 4572.00 ft (KB) (TVD)**

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4572.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6771 Outside**

Press @ Run Depth: 69.19 psig @ 4548.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.05

End Date: 2012.05.06

Last Calib.: 2012.05.06

Start Time: 18:35:28

End Time: 00:34:13

Time On Btm: 2012.05.05 @ 21:03:43

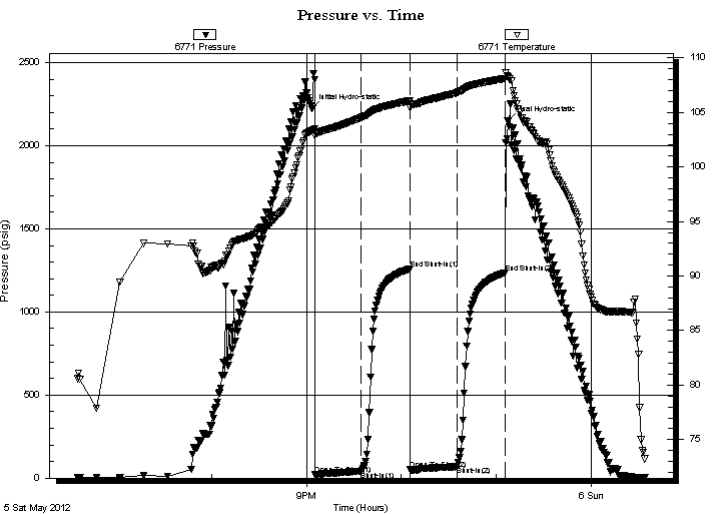
Time Off Btm: 2012.05.05 @ 23:07:13

**TEST COMMENT:** Weak surface blow died in 5 min, intermittent bubble rest of open

No return

Bubble to open tool, no blow, flush tool after 5 min, good surge 1/4" in blow died back to a weak surface blow

No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.69	103.32	Initial Hydro-static
2	22.86	102.90	Open To Flow (1)
31	42.41	104.52	Shut-In(1)
62	1258.17	106.08	End Shut-In(1)
62	50.90	105.39	Open To Flow (2)
92	69.19	106.82	Shut-In(2)
122	1236.40	108.11	End Shut-In(2)
124	2152.75	108.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	free oil 100%o	0.01
88.00	o c m 15%o 85%m	0.43

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**14-17s-35w Wichita,KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45870

**DST#: 11**

ATTN: Max Lovely

Test Start: 2012.05.05 @ 18:35:28

## Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	115000.0 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	89000.00 lb
Depth to Top Packer:	4547.00 ft			Final	89000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	45.00 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			4528.00	
Shut In Tool	5.00			4533.00	
Hydraulic tool	5.00			4538.00	
Packer	5.00			4543.00	20.00 Bottom Of Top Packer
Packer	4.00			4547.00	
Stubb	1.00			4548.00	
Recorder	0.00	6771	Outside	4548.00	
Recorder	0.00	8368	Inside	4548.00	
Perforations	19.00			4567.00	
Bullnose	5.00			4572.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration

**14-17s-35w Wichita, KS**

PO Box 783188  
Wichita, KS 67278

**Simons #1**

Job Ticket: 45870

**DST#: 11**

ATTN: Max Lovely

Test Start: 2012.05.05 @ 18:35:28

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	free oil 100%o	0.010
88.00	o c m 15%o 85%m	0.433

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

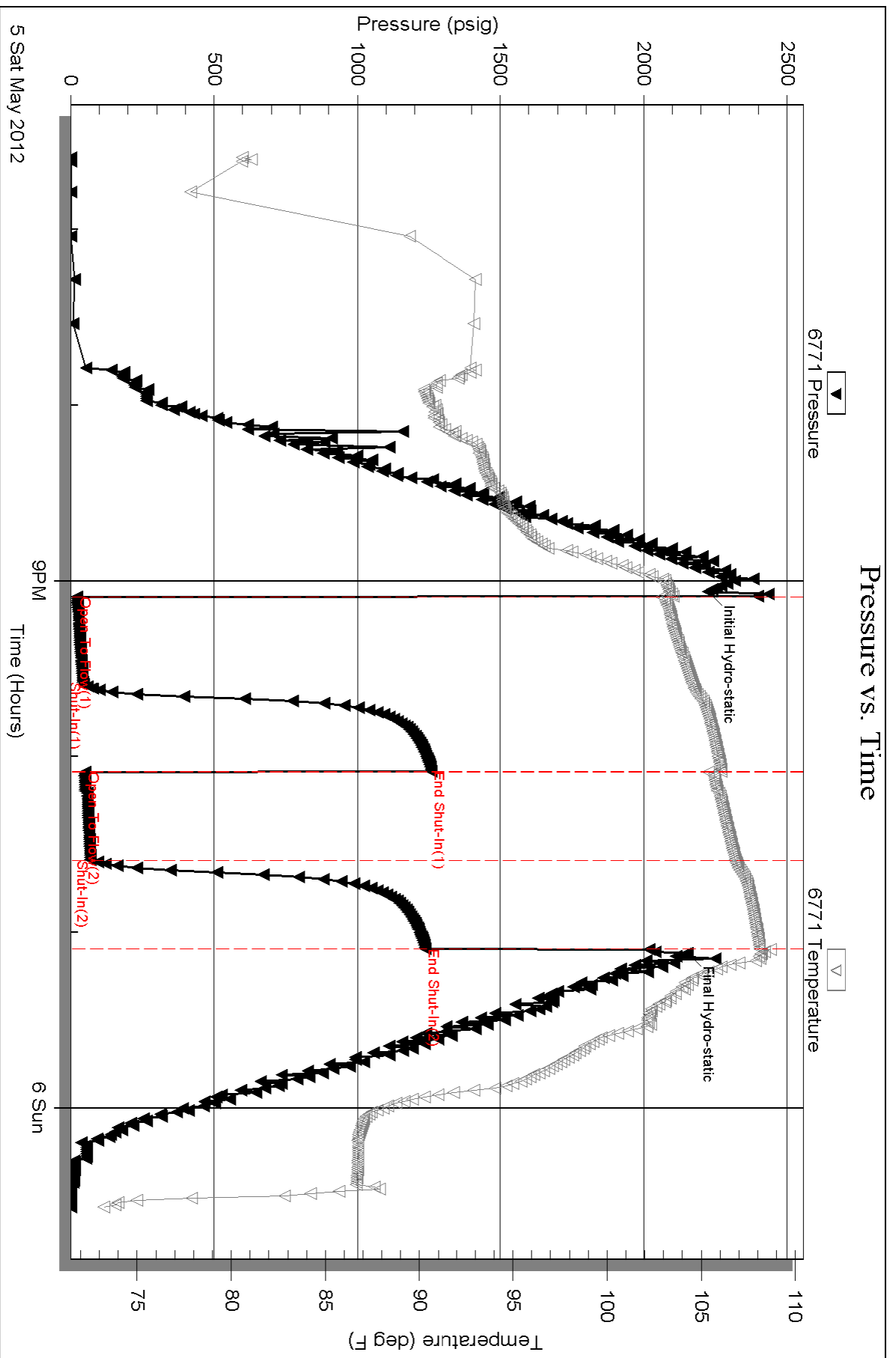
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



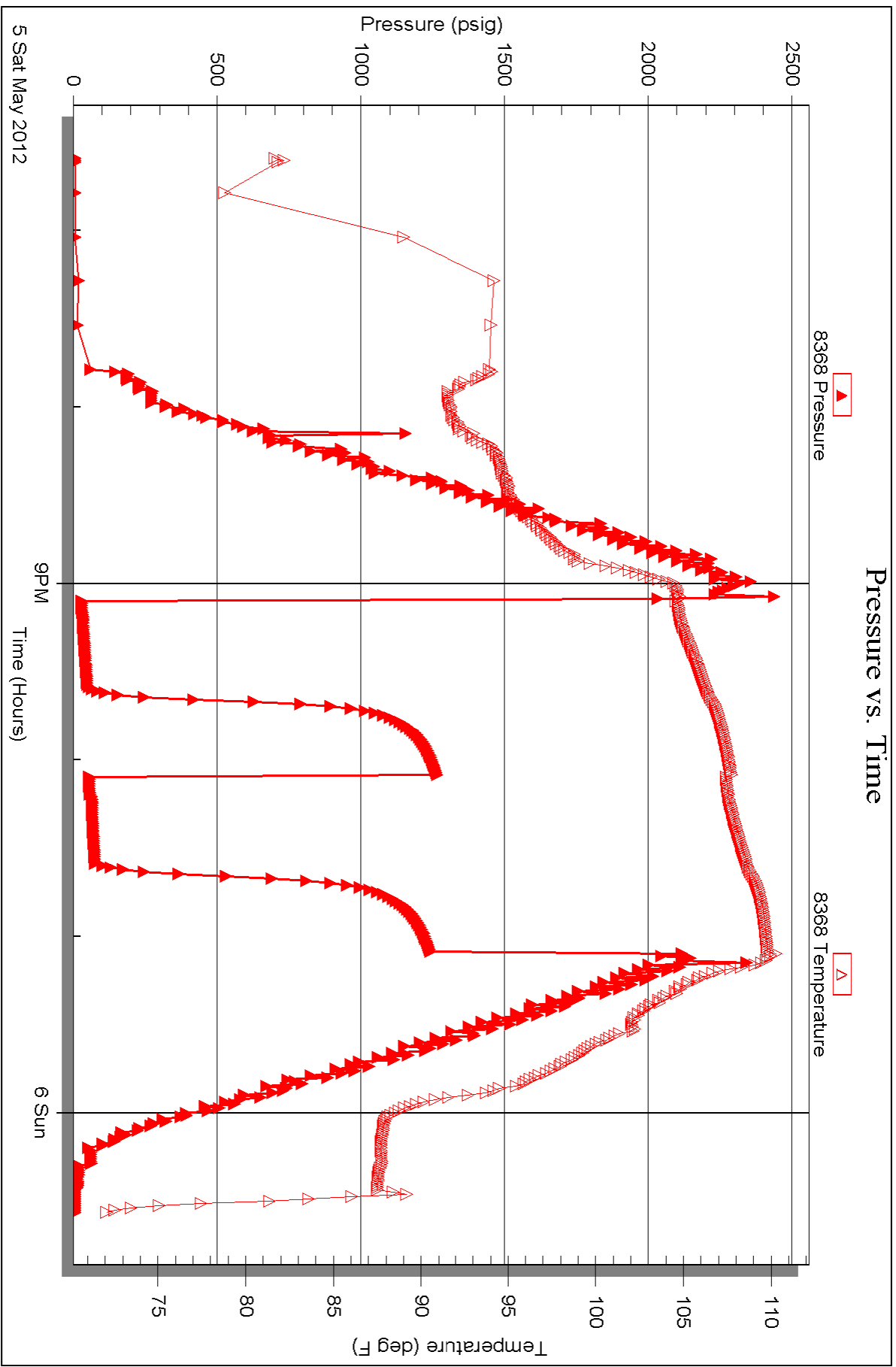
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 11





# TRILOBITE TESTING INC.

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APR 30 2012

BY: \_\_\_\_\_

## Test Ticket

NO. 45866

Well Name & No. Simons #1 Test No. #1 Date 4/27/12  
 Company Ritchie Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22<sup>nd</sup> St N. #700 Box 763188, Wichita, KS 67278  
 Co. Rep / Geo. Max Levely Rig Murphy #14  
 Location: Sec. 14 Twp. 17 Rge. 35w Co. Wichita State Ks

Interval Tested 3891 3980 Zone Tested King Hill  
 Anchor Length 89 Drill Pipe Run 3363' Mud Wt. 9.4  
 Top Packer Depth 3886 Drill Collars Run 531' XH Vis 6.9  
 Bottom Packer Depth 3891 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 3980 Chlorides 2000 ppm System LCM #2

Blow Description 10" in. blow  
No return  
7 1/2" in. blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>180</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
<u>350</u>	<u>SMCW</u>		<u>90</u>	<u>10</u>	
_____	_____				
_____	_____				

Rec Total 650' BHT 1060° Gravity \_\_\_\_\_ API RW 301 @ 76 °F Chlorides 20500 ppm

(A) Initial Hydrostatic 2010  Test 1150' T-On Location 09:55  
 (B) First Initial Flow 46  Jars 250' T-Started 10:50  
 (C) First Final Flow 241  Safety Joint 75' T-Open 12:50  
 (D) Initial Shut-In 987  Circ Sub N/C T-Pulled 15:50  
 (E) Second Initial Flow 241  Hourly Standby \_\_\_\_\_ T-Out 18:00  
 (F) Second Final Flow 336  Mileage 43 RT 666.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 945  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1910  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1541.65  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1641.65

Approved By Max Levely Our Representative [Signature]

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ECLIPSE  
APR 30 2012

## Test Ticket

NO. 45867

Well Name & No. Simons #1 Test No. #2 Date 4/28/12  
 Company Ritchie Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E. 22nd St. N #700 Box 783188, Wichita, Ks  
 Co. Rep / Geo. Max Lovely Rig Mudwin #14  
 Location: Sec. 14 Twp. 17S Rge. 35W Co. Wichita State Ks

Interval Tested 4021 4060 Zone Tested Toronto  
 Anchor Length 39 Drill Pipe Run 3488 Mud Wt. 9.4  
 Top Packer Depth 4014 Drill Collars Run 5.31' XH Vis 64  
 Bottom Packer Depth 4021 Wt. Pipe Run --- WL 9.4  
 Total Depth 4060 Chlorides 4000 ppm System LCM #2

Blow Description Surface blow dced in 12 min,  
if no return  
Very weak blow, intermittent surface blow  
no return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Mud w/ oil spots</u>	<u>spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60' BHT 105' Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2028  Test 1250' T-On Location 03:25  
 (B) First Initial Flow 25  Bars 250' T-Started 03:40  
 (C) First Final Flow 51  Safety Joint 75' T-Open 05:35  
 (D) Initial Shut-In 1013  Circ Sub n/c T-Pulled 07:35  
 (E) Second Initial Flow 53  Hourly Standby T-Out 09:35  
 (F) Second Final Flow 76  Mileage 43 RT lele. 65 Comments  
 (G) Final Shut-In 958  Sampler  
 (H) Final Hydrostatic 1951  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1641.65  
 Accessibility MP/DST Disc't

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1641.65

Approved By [Signature] Our Representative [Signature]

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MAY 04 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 46471

Well Name & No. Simons # 1 14CD Test No. 3 Date 4-29-12  
 Company Ritche Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22nd St N # 700 box 783188 Wichita, KS  
 Co. Rep / Geo. Max Louley Rig Murfin 14  
 Location: Sec. 14 Twp. 17s Rge. 35w Co. Wichita State KS

Interval Tested 4104 - 4194 Zone Tested Lansing C-D-E-F  
 Anchor Length 93 Drill Pipe Run 3555 Mud Wt. 9.3  
 Top Packer Depth 4099 Drill Collars Run 531 Vis 50  
 Bottom Packer Depth 4104 Wt. Pipe Run --- WL 8.0  
 Total Depth 4194 Chlorides 4200 ppm System LCM 2 #  
 Blow Description B.O.B 15 min  
NO Return  
built to 8 inch blow  
NO Return

Rec	Feet of	%gas	TR	%oil	%water	%mud
290	SOWCM				10%	90%
360	WCM				80%	20%

Rec Total 650 BHT 109° Gravity --- API RW 0.227@ 69° F Chlorides 30,000 ppm  
 Test 1250'  
 Jars ---  
 Safety Joint ---  
 Circ Sub N/C  
 Hourly Standby  
 Mileage 43 R/T Lab. 65  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1316.65  
 T-On Location 0343  
 T-Started 0418  
 T-Open 0650  
 T-Pulled 0950  
 T-Out 1153  
 Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1316.65  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60  
 Approved By Max Louley

Our Representative Col. Buchholz

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MAY 04 2012

## Test Ticket

NO. 46472

BY: \_\_\_\_\_

Well Name & No. Simons #1 14CD Test No. 4 Date 4-29-12  
 Company Ritche Exploration Elevation 3177 KB 3167 GL  
 Address 9100 E 22nd st + N #700 box 283188 Wichita KS  
 Co. Rep/Geo. Max Lowley Rig Murfin 14  
 Location: Sec. 14 Twp. 17 S Rge. 35 W Co. Wichita State KS

Interval Tested 4206 - 4234 Zone Tested Lansing -G-  
 Anchor Length 28 Drill Pipe Run 3681 Mud Wt. 9.4  
 Top Packer Depth 4201 Drill Collars Run 531 Vis 65  
 Bottom Packer Depth 4206 Wt. Pipe Run — WL 8.8  
 Total Depth 4234 Chlorides 4,800 ppm System LCM 2 #  
 Blow Description BoB 7 min  
No Return.  
BoB 9 min  
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>Feet of MCW</u>		<u>60</u>	<u>40</u>	
<u>900</u>	<u>Feet of W</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1200 BHT 111°  
 (A) Initial Hydrostatic 2,063  
 (B) First Initial Flow 33  
 (C) First Final Flow 379  
 (D) Initial Shut-In 1,176  
 (E) Second Initial Flow 374  
 (F) Second Final Flow 610  
 (G) Final Shut-In 1,184  
 (H) Final Hydrostatic 4988  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Gravily — API RW 271 @ 54° F Chlorides 80,000 ppm  
 Test 1250  
 Jars —  
 Safety Joint —  
 Circ Sub NC  
 Hourly Standby —  
 Mileage 43 R/T 66.65  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1316.65  
 T-On Location 19:33  
 T-Started 20:05  
 T-Open 22:30  
 T-Pulled 01:30  
 T-Out 03:55  
 Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1316.65  
 MP/DST Disc'l \_\_\_\_\_

Approved By Max Lowley  
 Our Representative Cal Prochaska  
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**Test Ticket**

NO. **46474**

Well Name & No. Simons #1 14CD Test No. 95 Date 4-30-12  
 Company Ritche Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22nd St N #700 box 783188 Wichita KS  
 Co. Rep / Geo. Max Lovley Rig Murphy 14  
 Location: Sec. 14 Twp. 17 S Rge. 35 W Co. Wichita State KS

Interval Tested 4254-4323 Zone Tested Lansing H, I  
 Anchor Length 69 Drill Pipe Run 3714 Mud Wt. 9.2  
 Top Packer Depth 4249 Drill Collars Run 531 Vis 56  
 Bottom Packer Depth 4254 Wt. Pipe Run — WL 8.0  
 Total Depth 4323 Chlorides 4,900 ppm System LCM 2 #  
 Blow Description Surface blow

No Return.  
No blow, flushed tool, weak surface blow did 10 min  
No Return.

Rec	Feet of	%gas	%oil	%water	%muc
<u>20</u>	<u>M</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%muc
Rec	Feet of	%gas	%oil	%water	%muc
Rec	Feet of	%gas	%oil	%water	%muc
Rec	Feet of	%gas	%oil	%water	%muc

Rec Total 20 BHT 105° Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2,135  Test 1255 T-On Location 16:45  
 (B) First Initial Flow 20  Jars — T-Started 17:38  
 (C) First Final Flow 31  Safety Joint — T-Open 20:00  
 (D) Initial Shut-In 1,005  Circ Sub N/C T-Pulled 22:00  
 (E) Second Initial Flow 35  Hourly Standby — T-Out 23:40  
 (F) Second Final Flow 49  Mileage 43/R + 46.65 Comments —  
 (G) Final Shut-In 931  Sampler —  
 (H) Final Hydrostatic 2,100  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 8  
 Day Standby — Total 1316.65  
 Accessibility — MP/DST Disc't —

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1316.65

Approved By Max Lovley Our Representative Cole Schuchman

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MAY 04 2012

Test Ticket

BY: \_\_\_\_\_ NO. 46576

Well Name & No. Simons # 1 14CD Test No. 6 Date 5-1-12  
 Company Ritche Exploration Elevation 3177 KB 3167 GI  
 Address 8100 E 22nd St N # 700 box 783188 Wichita KS  
 Co. Rep / Geo. Max Louley Rig marfin 14  
 Location: Sec. 14 Twp. 17 S Rge. 35 W Co. Wichita State KS

Interval Tested 4327 - 4351 Zone Tested Lansing J  
 Anchor Length 24 Drill Pipe Run 3777 Mud Wt. 9.2  
 Top Packer Depth 4322 Drill Collars Run 531 Vis 65  
 Bottom Packer Depth 4327 Wt. Pipe Run — WL 8.0  
 Total Depth 4351 Chlorides 7,100 ppm System LCM 3 #

Blow Description Built to 8 inch  
NO Return.  
Built to 5 inch  
NO Return

Rec	Feet of	%gas	%oil	%water	%mu
<u>210</u>	<u>Feet of MCW</u>			<u>90</u>	<u>10</u>
<u>450</u>	<u>Feet of W</u>			<u>100</u>	
<u>    </u>	<u>Feet of</u>				
<u>    </u>	<u>Feet of</u>				
<u>    </u>	<u>Feet of</u>				

Rec Total 660 BHT 110° Gravity — API RW 271 @ 54° F Chlorides 80,000 (p)  
 (A) Initial Hydrostatic 2171  Test 1250 T-On Location 07:25  
 (B) First Initial Flow 22  Jars — T-Started 07:54  
 (C) First Final Flow 168  Safety Joint — T-Open 10:10  
 (D) Initial Shut-In 1221  Circ Sub N/C T-Pulled 13:10  
 (E) Second Initial Flow 174  Hourly Standby T-Out 16:11  
 (F) Second Final Flow 309  Mileage 43 / RT 100.45 Comments \_\_\_\_\_  
 (G) Final Shut-In 1217  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2075  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1316.45  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1316.45

Approved By Max Louley Our Representative Cole Archibald

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# TRILOBITE TESTING INC.

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RECEIVED  
MAY 04 2012

## Test Ticket

NO. 46578

Well Name & No. Simons #1 14CD Test No. 7 Date 5-1-12  
 Company Ritch Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22nd St N #700 Box 783188 Wichita, KS  
 Co. Rep / Geo. Max Lovley Rig Murkin 14  
 Location: Sec. 14 Twp. 17 W Rge. 35 S Co. Wichita State KS

Interval Tested 4350 - 4377 Zone Tested Lancing -K-  
 Anchor Length 27 Drill Pipe Run 3807 Mud Wt. 9.2  
 Top Packer Depth 4345 Drill Collars Run 531 Vis 65  
 Bottom Packer Depth 4350 Wt. Pipe Run - WL 8.0  
 Total Depth 4377 Chlorides 7,100 ppm System LCM 3 #

Blow Description Built to 1 1/4 inch  
No Return  
Built to 1 1/4 inch  
No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>MCO</u>	<u>90</u>	<u>10</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>MCO</u>	<u>80</u>	<u>20</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>OCM</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>MWCO</u>	<u>30</u>	<u>30</u>	<u>40</u>	<u>0</u>
<u>37</u>					

Rec Total 345 BHT 110° Gravity 1.9 API RW .286@ 70°F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2,249  Test 1250 T-On Location 23:00  
 (B) First Initial Flow 21  Jars T-Started 23:35  
 (C) First Final Flow 72  Safety Joint T-Open 04:45  
 (D) Initial Shut-In 1,184  Circ Sub N/C T-Pulled 07:45  
 (E) Second Initial Flow 78  Hourly Standby 3/4 hr 75' T-Out 09:42  
 (F) Second Final Flow 134  Mileage 43 R/H 60.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,159  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2069  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1391.65  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1391.65  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Col Archibald

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# TRILOBITE TESTING INC.

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## RECEIVED Test Ticket

MAY 04 2012

NO. 46579

BY: \_\_\_\_\_

Well Name & No. Simons #1 14CD Test No. 8 Date 5-2-12  
 Company Ratch Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22nd St N # 700 Box 703188 Wichita KS  
 Co. Rep / Geo. Max Louiey Rig Murfin 14  
 Location: Sec. 14 Twp. 17w Rge. 35 S Co. Wichita State KS

Interval Tested 4375-4400 Zone Tested Base Lansing K  
 Anchor Length 25 Drill Pipe Run 3827 Mud Wt. 9.3  
 Top Packer Depth 4300 Drill Collars Run 531 Vis 65  
 Bottom Packer Depth 4375 Wt. Pipe Run — WL 9.6  
 Total Depth 4400 Chlorides 8,200 ppm System LCM 3 #  
 Blow Description lost packer seat, reset packer - built to 1/4 inch  
No Return.  
Built to 1/2 inch  
No Return

Rec	Feet of	%gas	%oil	%water	%mud
90	GOCM	5	15	80	
90	GOCM	15	30	55	
90	Gmco	20	75	5	
300	Drill mud			100	
<del>570</del>					

Rec Total 570 BHT 107° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2098  Test 1250 T-On Location 18:00  
 (B) First Initial Flow 188  Jars T-Started 18:07  
 (C) First Final Flow 246  Safety Joint T-Open 20:50  
 (D) Initial Shut-In 1,176  Circ Sub N/C T-Pulled 23:05  
 (E) Second Initial Flow 254  Hourly Standby T-Out 01:00  
 (F) Second Final Flow 296  Mileage 43 Rt 46.05 Comments Could not  
 (G) Final Shut-In 1,150  Sampler Get Gravity on oil  
 (H) Final Hydrostatic 2,106  Straddle oil was like Jello.  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 30  Extra Packer  
 Initial Shut-In 30  Extra Recorder Sub Total 0  
 Final Flow 45  Day Standby Total 1316.05  
 Final Shut-In 60  Accessibility MP/DST Disc't  
 Sub Total 1316.05

Approved By [Signature] Our Representative [Signature]  
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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45868

Well Name & No. Simons #1 Test No. #9 Date 5/4/12  
 Company Kitchie Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22nd St. N #700 Box 783188, Wichita, Ks 67278  
 Co. Rep / Geo. Max Lovely Rig Murphy #14  
 Location: Sec. 14 Twp. 17s Rge. 35w Co. Wichita State Ks

Interval Tested 4476 4520 Zone Tested Altamont  
 Anchor Length 44 Drill Pipe Run 3239' Mud Wt. 9.1  
 Top Packer Depth 4471 Drill Collars Run 531' XH Vis 52  
 Bottom Packer Depth 4476 Wt. Pipe Run — WL 8.8  
 Total Depth 4520 Chlorides 8,000 ppm System LCM #3

Blow Description 2" in blow  
No return  
1" in blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>95'</u>	<u>Swcm</u>		<u>15</u>	<u>85</u>	
<u>180'</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 275' BHT 113° Gravity — API RW .198 @ 59° F Chlorides 42,000 ppm  
 (A) Initial Hydrostatic 2285  Test 1250 T-On Location 19:23  
 (B) First Initial Flow 41  Jars T-Started 20:12  
 (C) First Final Flow 114  Safety Joint T-Open 22:23  
 (D) Initial Shut-In 1073  Circ Sub N/C T-Pulled 01:23  
 (E) Second Initial Flow 123  Hourly Standby T-Out \_\_\_\_\_  
 (F) Second Final Flow 186  Mileage 66.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 810  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2216  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Sub Total 1316.65 Total 1316.65 MP/DST Disc't \_\_\_\_\_

Approved By Max Lovely Our Representative [Signature]

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## Test Ticket

NO. 45869

4/10

Well Name & No. Simons #1 Test No. #10 Date 5/4/12  
 Company Kitchie Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22<sup>nd</sup> St. N #700 Box 783188, Wichita, KS 67278  
 Co. Rep / Geo. Max Lovely Rig Mudwin #14  
 Location: Sec. 14 Twp. 17S Rge. 35W Co. Wichita State KS

Interval Tested 4522 4543 Zone Tested Ahtamont 'B'  
 Anchor Length 21 Drill Pipe Run 4003' Mud Wt. 9.3  
 Top Packer Depth 4517 Drill Collars Run 531' XH Vis 55  
 Bottom Packer Depth 4522 Wt. Pipe Run --- WL 9.6  
 Total Depth 4543 Chlorides 8400 ppm System LCM #3  
 Blow Description Weak blow died in 2 min.

No return  
No blow Flush tool after 5 min, Good Surge, No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Mud</u>			<u>100</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 1' BHT 108° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2246  Test 1250 T-On Location 11:30  
 (B) First Initial Flow 26  Jars T-Started 11:55  
 (C) First Final Flow 28  Safety Joint T-Open 14:08  
 (D) Initial Shut-In 33  Circ Sub N/C T-Pulled 16:08  
 (E) Second Initial Flow 25  Hourly Standby T-Out 19:10  
 (F) Second Final Flow 29  Mileage 66.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 34  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2136  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1316.65  
 Sub Total 1316.65 MP/DST Disc't \_\_\_\_\_

Approved By Max Lovely Our Representative [Signature]

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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45870

Well Name & No. Simons #1 Test No. #11 Date 5/5/12  
 Company Ritchie Exploration Elevation 3177 KB 3167 GL  
 Address 8100 E 22nd St. N #700 Box 783188, Wichita, KS 67278  
 Co. Rep / Geo. Max Lowery Rig Mudwin #14  
 Location: Sec. 14 Twp. 17S Rge. 35W Co. Wichita State Ks

Interval Tested 4547 4572 Zone Tested Altamont "C"  
 Anchor Length 25 Drill Pipe Run 4003 Mud Wt. 9.3  
 Top Packer Depth 4542 Drill Collars Run 531' XH Vis 51  
 Bottom Packer Depth 4547 Wt. Pipe Run --- WL 9.4  
 Total Depth 4572 Chlorides 7200 ppm System LCM #2

Blow Description Weak surface blow died in 5min, intermittent bubble rest of open  
no return  
Bubble to open tool, no blow, flush tool after 5min, good surge 1/4" in died to  
no return surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Feet of free oil</u>	<u>100</u>			
<u>88'</u>	<u>Feet of ocm</u>	<u>15</u>		<u>85</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90' BHT 108° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	<u>2225</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>18:20</u>
(B) First Initial Flow	<u>22</u>	<input type="checkbox"/> Jars		T-Started	<u>18:35</u>
(C) First Final Flow	<u>42</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>21:04</u>
(D) Initial Shut-In	<u>1258</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>23:04</u>
(E) Second Initial Flow	<u>50</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>00:55</u>
(F) Second Final Flow	<u>69</u>	<input checked="" type="checkbox"/> Mileage	<u>66.65</u>	Comments	
(G) Final Shut-In	<u>1234</u>	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic	<u>2152</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Packer	

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1316.65

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1316.65  
 MP/DST Disc't

Approved By Max Lowery Our Representative [Signature]

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