



## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC.**

216 S Marshall St.  
Glen Elder KS 67446

ATTN: Rich Bell

### **Miller #31-1**

### **31-7s-31w Rooks,KS**

Start Date: 2013.06.22 @ 07:39:09

End Date: 2013.06.22 @ 14:34:39

Job Ticket #: 53979                      DST #: 1

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

Printed: 2013.06.25 @ 09:27:10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53979

**DST#: 1**

ATTN: Rich Bell

Test Start: 2013.06.22 @ 07:39:09

## GENERAL INFORMATION:

Formation: **Lansing C-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:39

Time Test Ended: 14:34:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 59

**Interval: 3180.00 ft (KB) To 3241.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3241.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6753 Outside**

Press @ RunDepth: 131.66 psig @ 3184.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.22

End Date:

2013.06.22

Last Calib.:

2013.06.22

Start Time: 07:39:14

End Time:

14:34:38

Time On Btm:

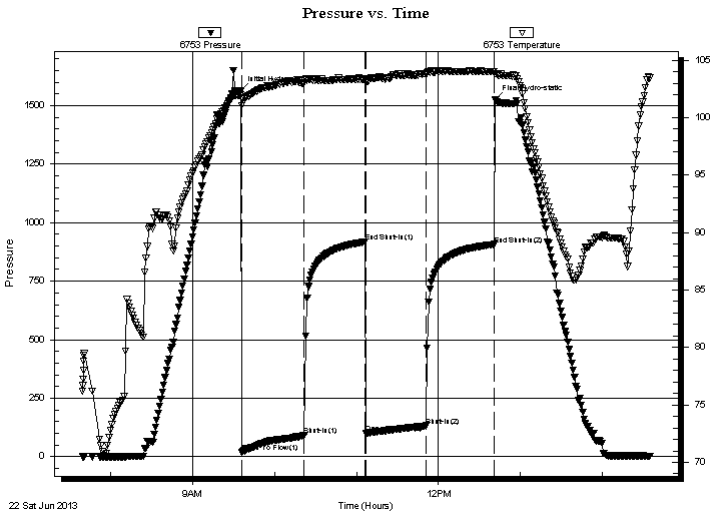
2013.06.22 @ 09:35:09

Time Off Btm:

2013.06.22 @ 12:41:39

**TEST COMMENT:** Good surface blow built to 8"  
Dead no blow back  
Fair surface blow built to 5"  
Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.60	101.98	Initial Hydro-static
1	19.43	101.04	Open To Flow (1)
47	91.08	103.06	Shut-In(1)
91	918.12	103.34	End Shut-In(1)
92	99.44	103.01	Open To Flow (2)
136	131.66	103.74	Shut-In(2)
186	906.83	104.00	End Shut-In(2)
187	1526.41	103.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	30%W 70%M	0.73
120.00	80% 20%M	1.68

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53979

**DST#: 1**

ATTN: Rich Bell

Test Start: 2013.06.22 @ 07:39:09

## Tool Information

Drill Pipe:	Length: 3071.00 ft	Diameter: 3.80 inches	Volume: 43.08 bbl	Tool Weight: 2000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3180.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 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			3161.00	
Shut In Tool	5.00			3166.00	
Hydraulic tool	5.00			3171.00	
Packer	4.00			3175.00	20.00 Bottom Of Top Packer
Packer	5.00			3180.00	
Stubb	1.00			3181.00	
Perforations	3.00			3184.00	
Recorder	0.00	8319	Inside	3184.00	
Recorder	0.00	6753	Outside	3184.00	
Perforations	20.00			3204.00	
Change Over Sub	1.00			3205.00	
Drill Pipe	32.00			3237.00	
Change Over Sub	1.00			3238.00	
Bullnose	3.00			3241.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53979

**DST#: 1**

ATTN: Rich Bell

Test Start: 2013.06.22 @ 07:39:09

## 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:

13500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	30%W 70%M	0.730
120.00	80% 20%M	1.683

Total Length: 250.00 ft      Total Volume: 2.413 bbl

Num Fluid Samples: 0

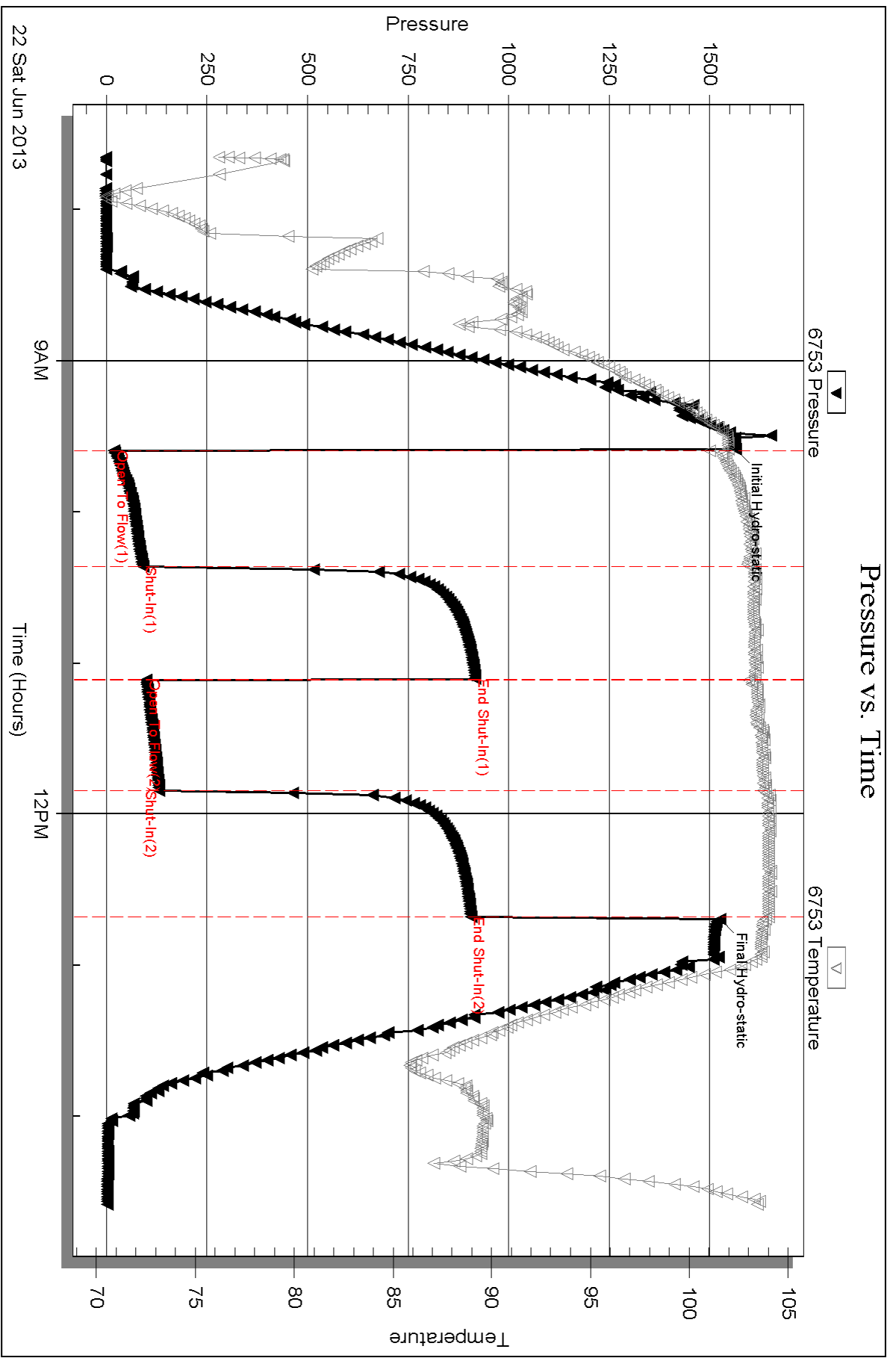
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .380 @ 90 F = 13500



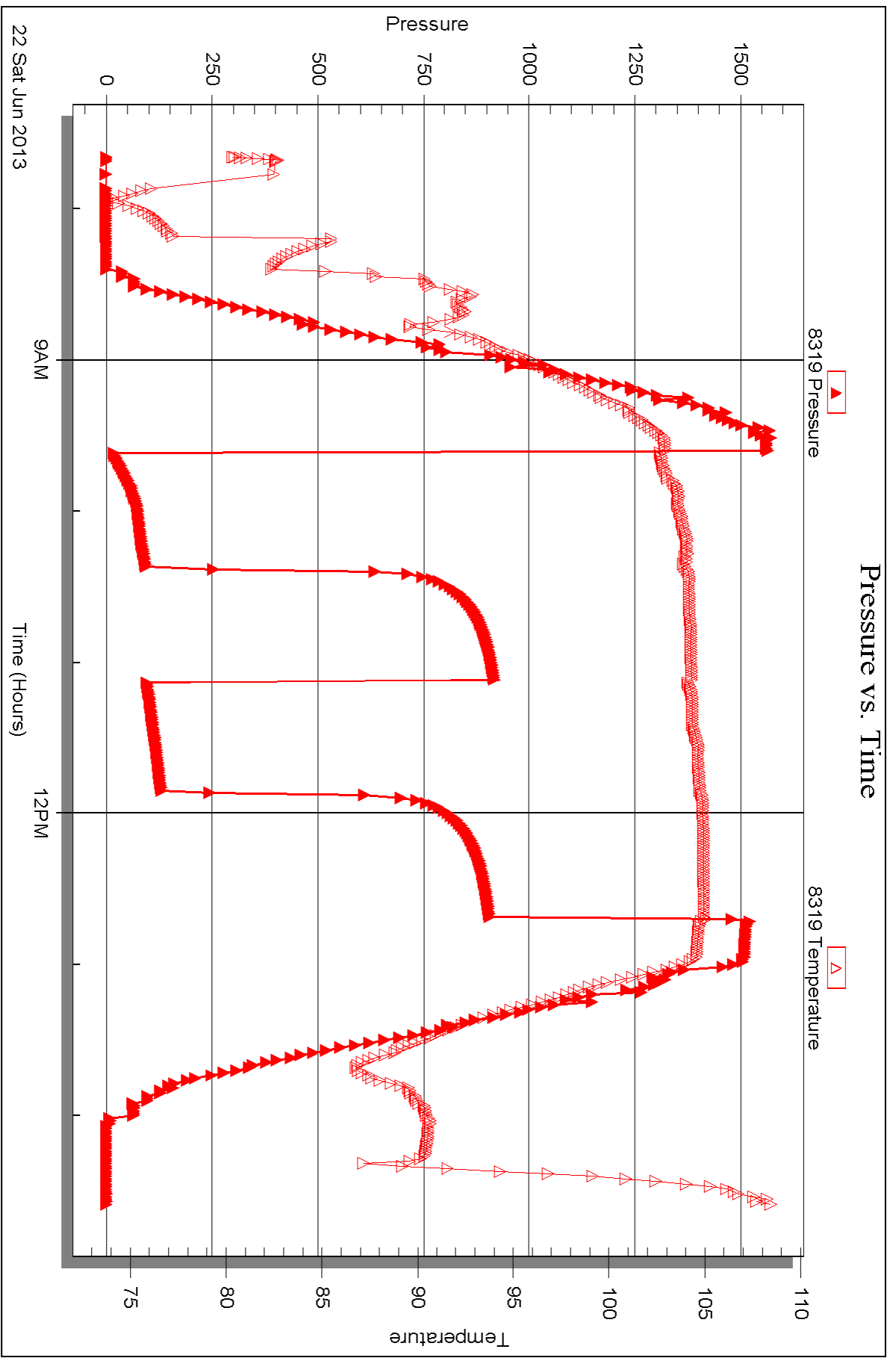
Serial #: 8319

Inside

Brinker Enterprises LLC

Miller #31-1

DST Test Number: 1



22 Sat Jun 2013

9AM

Time (Hours)

12PM

Triobite Testing, Inc

Ref. No: 53979

Printed: 2013.06.25 @ 09:27:14



## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC.**

216 S Marshall St.  
Glen Elder KS 67446

ATTN: Rich Bell

**Miller #31-1**

**31-7s-31w Rooks,KS**

Start Date: 2013.06.23 @ 04:15:57

End Date: 2013.06.23 @ 09:59:57

Job Ticket #: 53980                      DST #: 2

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

Printed: 2013.06.25 @ 09:26:02





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53980

**DST#: 2**

ATTN: Rich Bell

Test Start: 2013.06.23 @ 04:15:57

## GENERAL INFORMATION:

Formation: **LKC I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:20:57

Time Test Ended: 09:59:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 59

**Interval: 3297.00 ft (KB) To 3360.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3241.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6753 Outside**

Press @ Run Depth: 33.06 psig @ 3303.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.23

End Date:

2013.06.23

Last Calib.:

2013.06.23

Start Time: 04:16:02

End Time:

09:59:56

Time On Btm:

2013.06.23 @ 06:20:27

Time Off Btm:

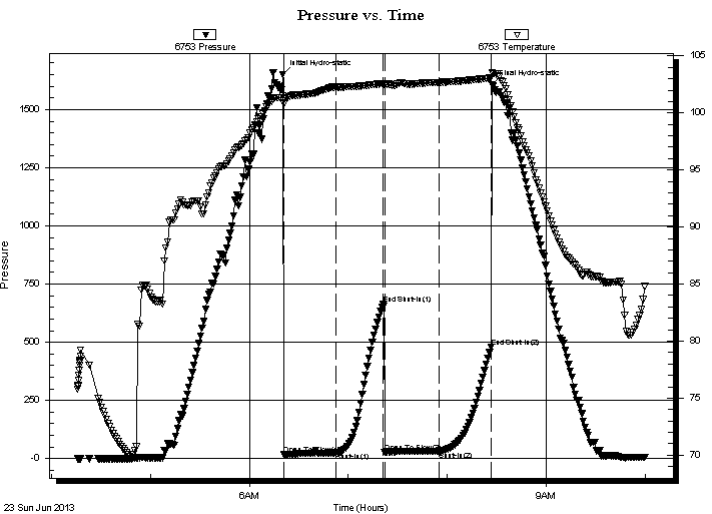
2013.06.23 @ 08:26:57

**TEST COMMENT:** Weak durface blow built to 1/2"

Dead no blow back

Dead no blow

Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.56	101.46	Initial Hydro-static
1	17.01	100.77	Open To Flow (1)
32	25.23	102.27	Shut-In(1)
61	663.12	102.57	End Shut-In(1)
62	27.95	102.44	Open To Flow (2)
95	33.06	102.69	Shut-In(2)
126	479.39	103.08	End Shut-In(2)
127	1608.24	103.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	5%0 95%M	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53980

**DST#: 2**

ATTN: Rich Bell

Test Start: 2013.06.23 @ 04:15:57

## Tool Information

Drill Pipe:	Length: 3167.00 ft	Diameter: 3.80 inches	Volume: 44.42 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 45.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3297.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.00 ft				
Tool Length:	83.00 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			3278.00	
Shut In Tool	5.00			3283.00	
Hydraulic tool	5.00			3288.00	
Packer	4.00			3292.00	20.00 Bottom Of Top Packer
Packer	5.00			3297.00	
Stubb	1.00			3298.00	
Perforations	5.00			3303.00	
Recorder	0.00	8319	Inside	3303.00	
Recorder	0.00	6753	Outside	3303.00	
Perforations	20.00			3323.00	
Change Over Sub	1.00			3324.00	
Drill Pipe	32.00			3356.00	
Change Over Sub	1.00			3357.00	
Bullnose	3.00			3360.00	63.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53980

**DST#: 2**

ATTN: Rich Bell

Test Start: 2013.06.23 @ 04:15:57

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 46.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	5%O 95%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

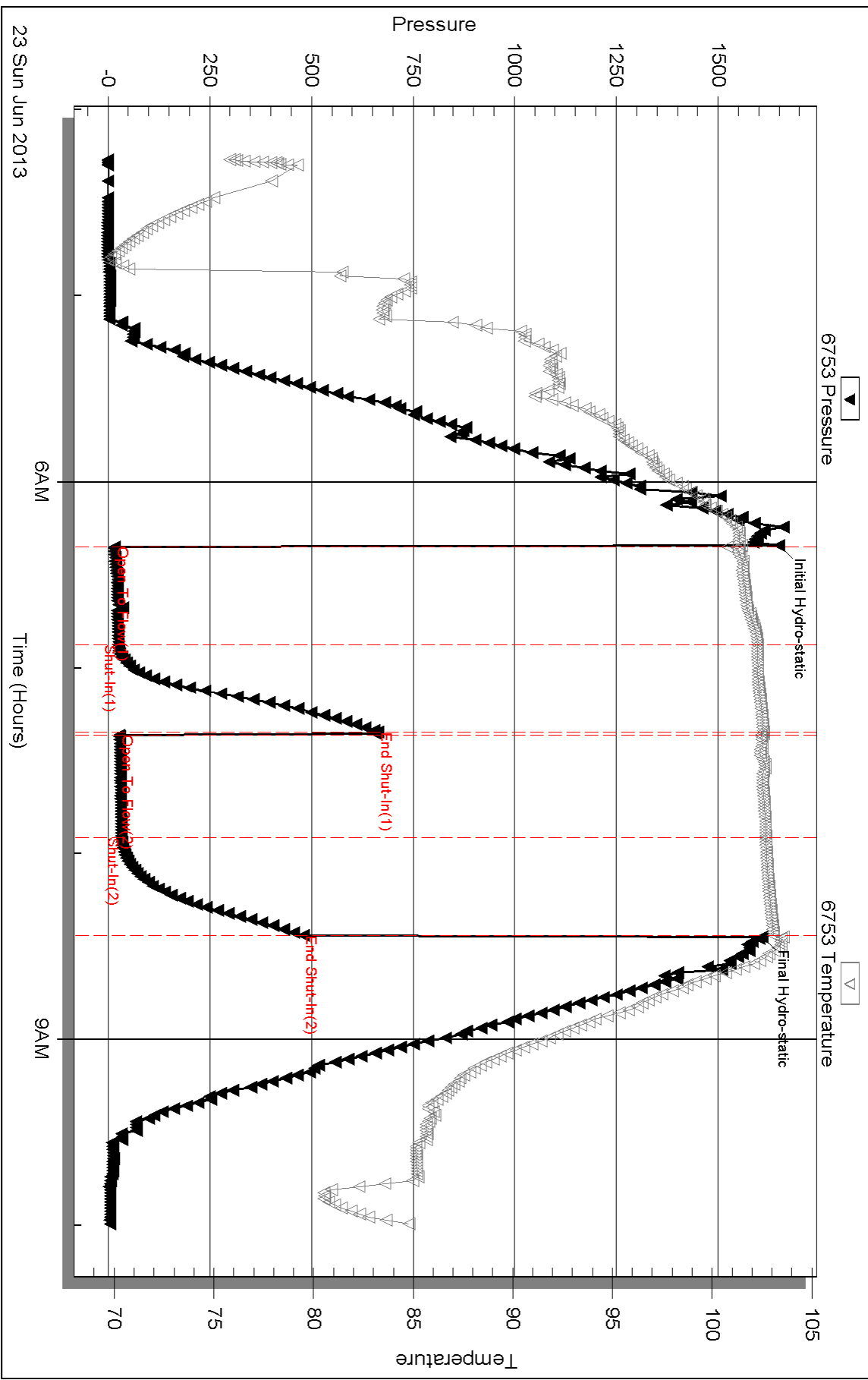
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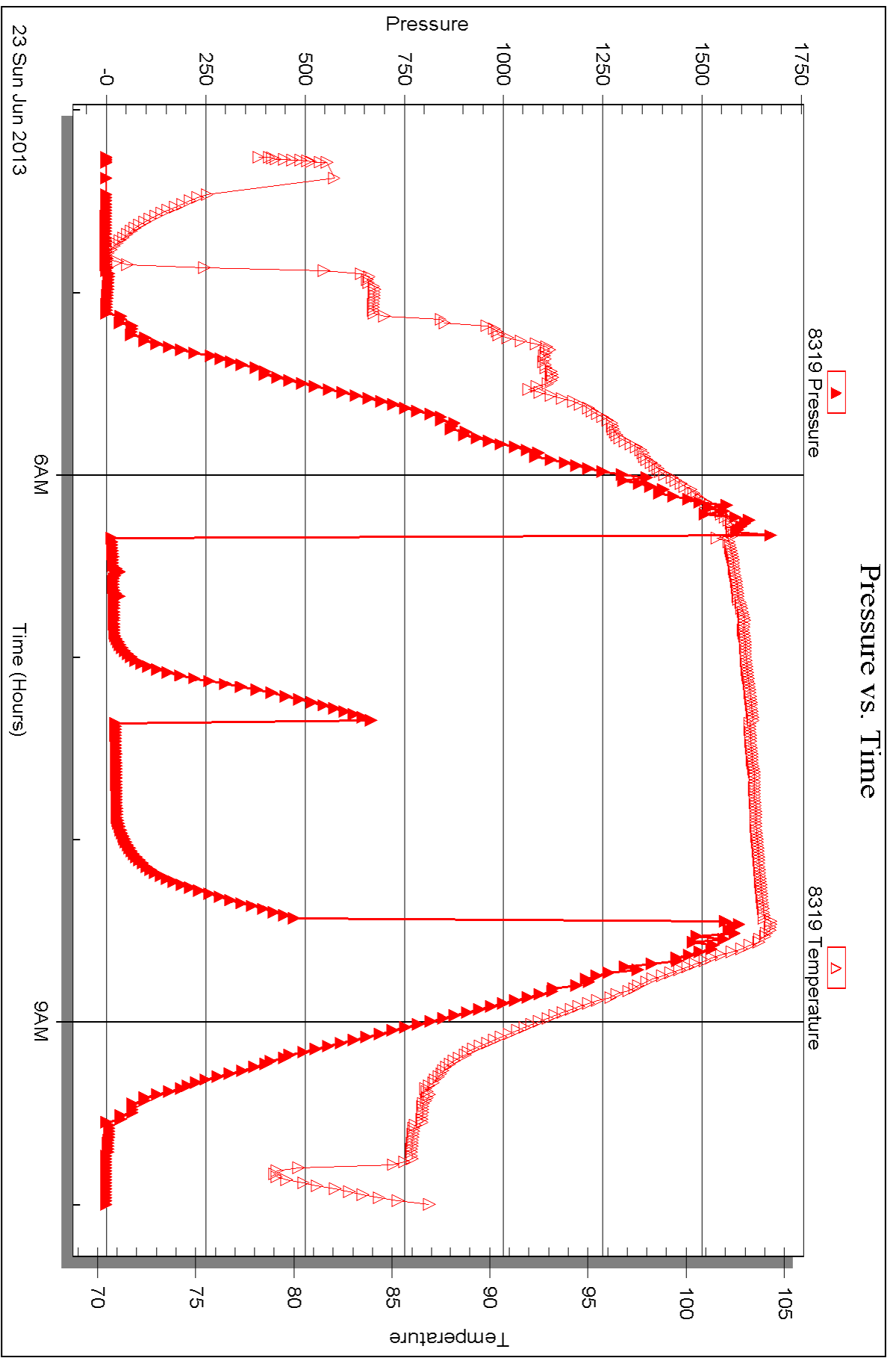
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC.**

216 S Marshall St.  
Glen Elder KS 67446

ATTN: Rich Bell

**Miller #31-1**

**31-7s-31w Rooks,KS**

Start Date: 2013.06.23 @ 18:50:02

End Date: 2013.06.24 @ 00:42:02

Job Ticket #: 53981                      DST #: 3

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

Printed: 2013.06.25 @ 09:25:24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53981

**DST#: 3**

ATTN: Rich Bell

Test Start: 2013.06.23 @ 18:50:02

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:53:32

Time Test Ended: 00:42:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 59

**Interval: 3355.00 ft (KB) To 3416.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3416.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6753 Outside**

Press @ RunDepth: 23.07 psig @ 3359.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.23

End Date:

2013.06.24

Last Calib.: 2013.06.24

Start Time: 18:50:07

End Time:

00:42:01

Time On Btm: 2013.06.23 @ 20:53:02

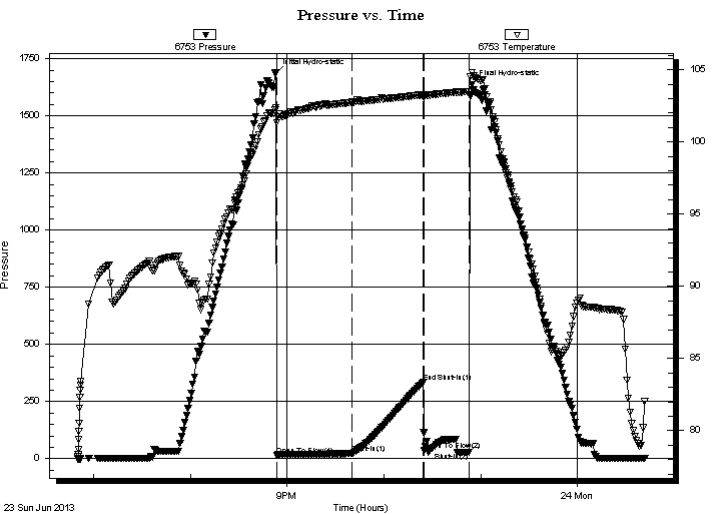
Time Off Btm: 2013.06.23 @ 22:54:32

**TEST COMMENT:** Weak surface blow built to 1 in.

Dead no blow back

Dead no blow

Pulled it



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.77	102.38	Initial Hydro-static
1	16.45	101.33	Open To Flow (1)
47	23.07	102.74	Shut-In(1)
91	332.83	103.26	End Shut-In(1)
92	37.36	103.19	Open To Flow (2)
120	27.52	103.49	Shut-In(2)
122	1637.55	104.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Free Oil 100%O	0.01
8.00	40%O 60%M	0.04

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53981

**DST#: 3**

ATTN: Rich Bell

Test Start: 2013.06.23 @ 18:50:02

## Tool Information

Drill Pipe:	Length: 3230.00 ft	Diameter: 3.80 inches	Volume: 45.31 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3355.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 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			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Packer	4.00			3350.00	20.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Perforations	3.00			3359.00	
Recorder	0.00	8319	Inside	3359.00	
Recorder	0.00	6753	Outside	3359.00	
Perforations	20.00			3379.00	
Change Over Sub	1.00			3380.00	
Drill Pipe	32.00			3412.00	
Change Over Sub	1.00			3413.00	
Bullnose	3.00			3416.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53981

**DST#: 3**

ATTN: Rich Bell

Test Start: 2013.06.23 @ 18:50:02

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Free Oil 100%O	0.010
8.00	40%O 60%M	0.039

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

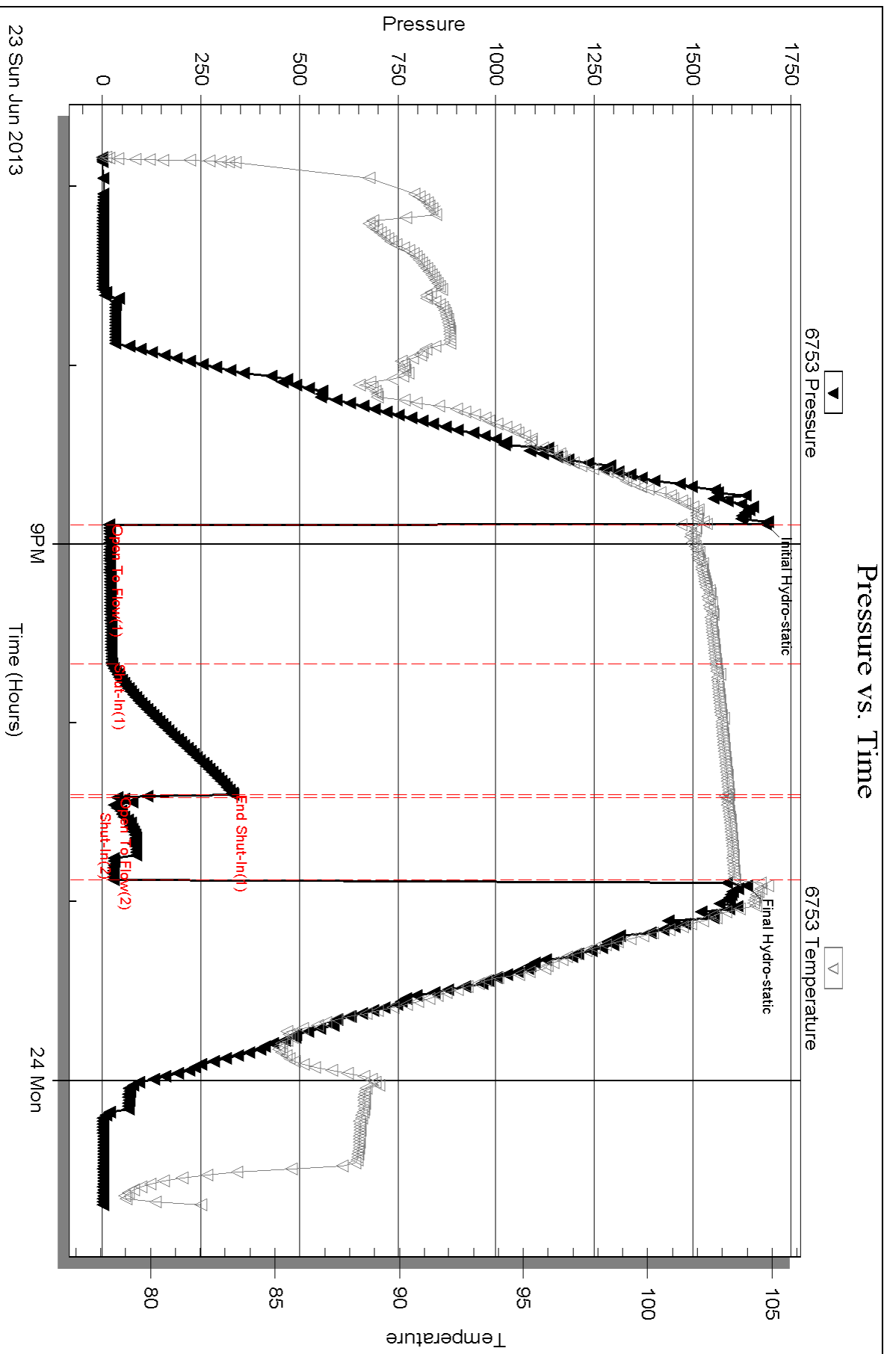
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



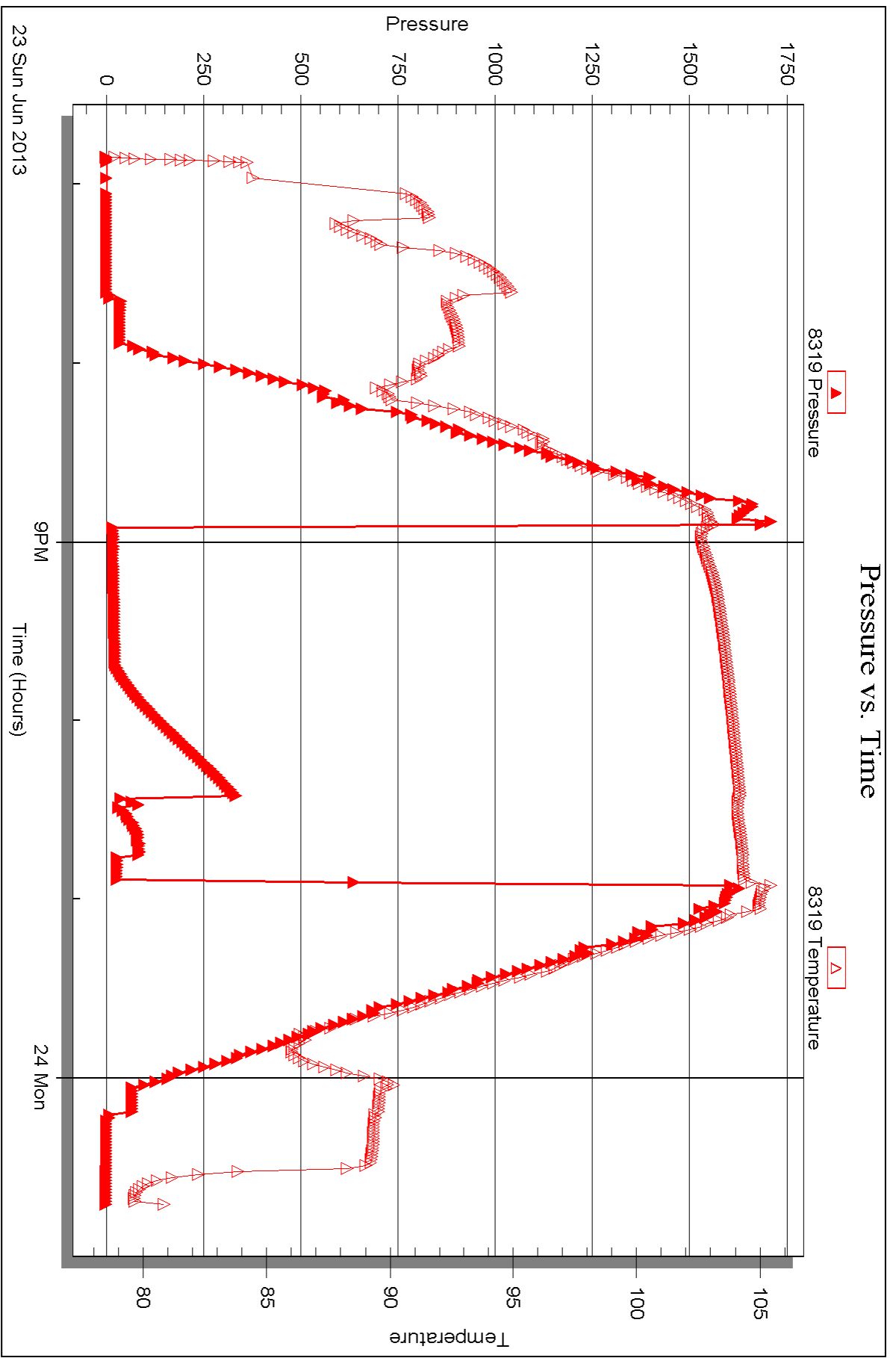
Serial #: 8319

Inside

Brinker Enterprises LLC

Miller #31-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 53981

Printed: 2013.06.25 @ 09:25:27



## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC.**

216 S Marshall St.  
Glen Elder KS 67446

ATTN: Rich Bell

**Miller #31-1**

**31-7s-31w Rooks,KS**

Start Date: 2013.06.24 @ 07:09:56

End Date: 2013.06.24 @ 13:18:26

Job Ticket #: 53982                      DST #: 4

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

Printed: 2013.06.25 @ 09:24:39



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53982

**DST#: 4**

ATTN: Rich Bell

Test Start: 2013.06.24 @ 07:09:56

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:01:26

Time Test Ended: 13:18:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 59

**Interval: 3416.00 ft (KB) To 3431.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3431.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6753 Outside**

Press @ Run Depth: 107.09 psig @ 3418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.24

End Date:

2013.06.24

Last Calib.: 2013.06.24

Start Time: 07:10:01

End Time:

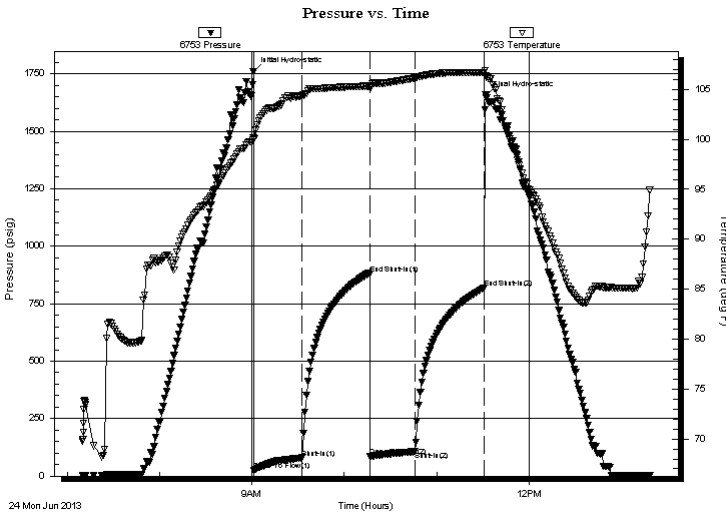
13:18:25

Time On Btm: 2013.06.24 @ 09:00:56

Time Off Btm: 2013.06.24 @ 11:31:56

**TEST COMMENT:** Strong surface blow built to 8"  
Dead no blow back  
Fair surface blow built to 5 1/2"  
Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.51	100.10	Initial Hydro-static
1	23.63	100.04	Open To Flow (1)
32	79.13	104.38	Shut-In(1)
76	877.82	105.34	End Shut-In(1)
76	85.12	105.14	Open To Flow (2)
105	107.09	106.13	Shut-In(2)
150	818.92	106.68	End Shut-In(2)
151	1656.56	106.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	30%W 70%M	0.34
120.00	80%W 20%M	1.23

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53982

**DST#: 4**

ATTN: Rich Bell

Test Start: 2013.06.24 @ 07:09:56

## Tool Information

Drill Pipe:	Length: 3292.00 ft	Diameter: 3.80 inches	Volume: 46.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	53000.00 lb
			<u>Total Volume: 46.77 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3416.00 ft			Final	44000.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3397.00	
Shut In Tool	5.00			3402.00	
Hydraulic tool	5.00			3407.00	
Packer	4.00			3411.00	20.00 Bottom Of Top Packer
Packer	5.00			3416.00	
Stubb	1.00			3417.00	
Perforations	1.00			3418.00	
Recorder	0.00	8319	Inside	3418.00	
Recorder	0.00	6753	Outside	3418.00	
Perforations	10.00			3428.00	
Bullnose	3.00			3431.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 35.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC.

**31-7s-31w Rooks,KS**

216 S Marshall St.  
Glen Elder KS 67446

**Miller #31-1**

Job Ticket: 53982

**DST#: 4**

ATTN: Rich Bell

Test Start: 2013.06.24 @ 07:09:56

## 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:

26000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	30%W 70%M	0.344
120.00	80%W 20%M	1.228

Total Length: 190.00 ft      Total Volume: 1.572 bbl

Num Fluid Samples: 0

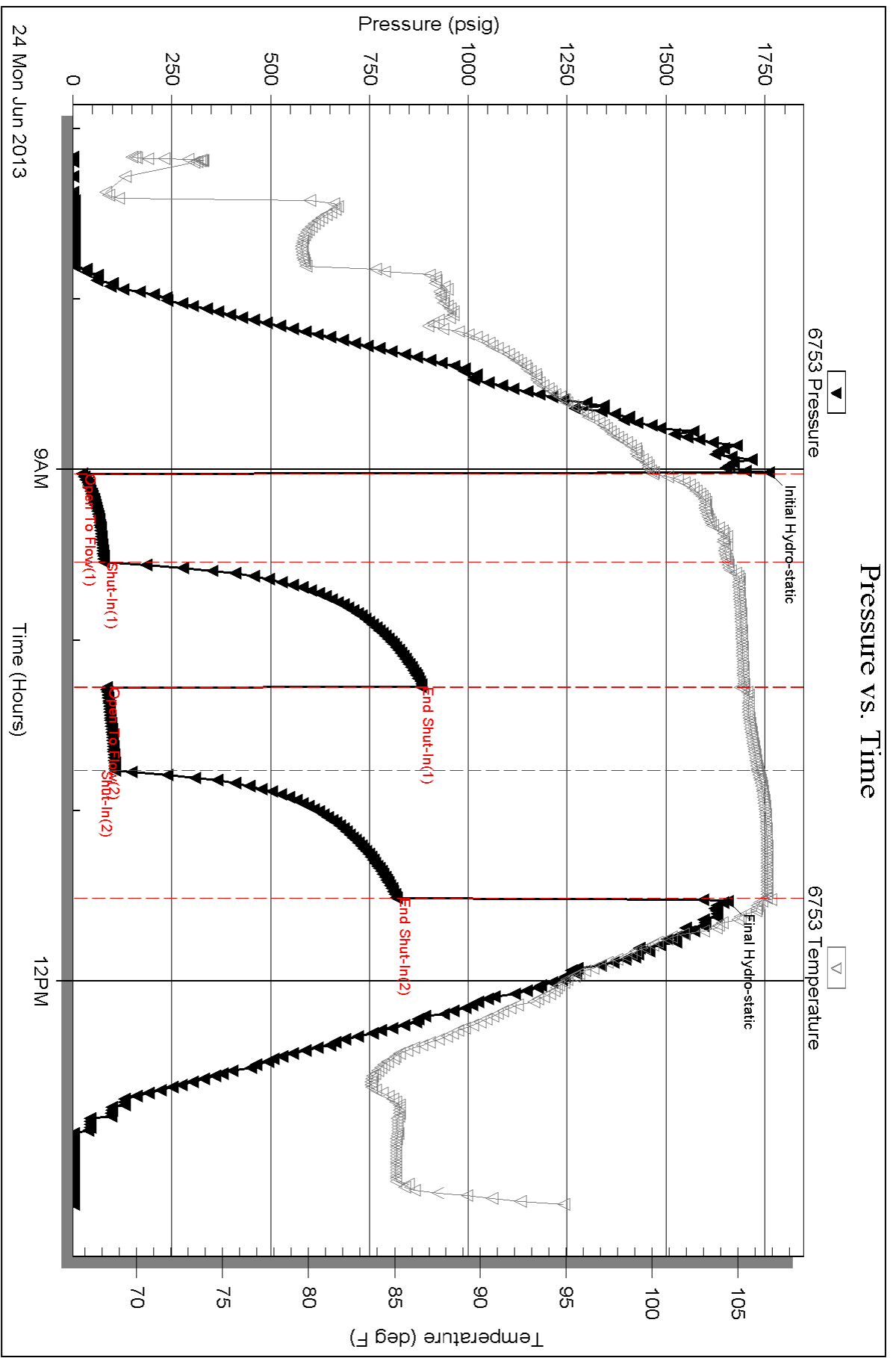
Num Gas Bombs: 0

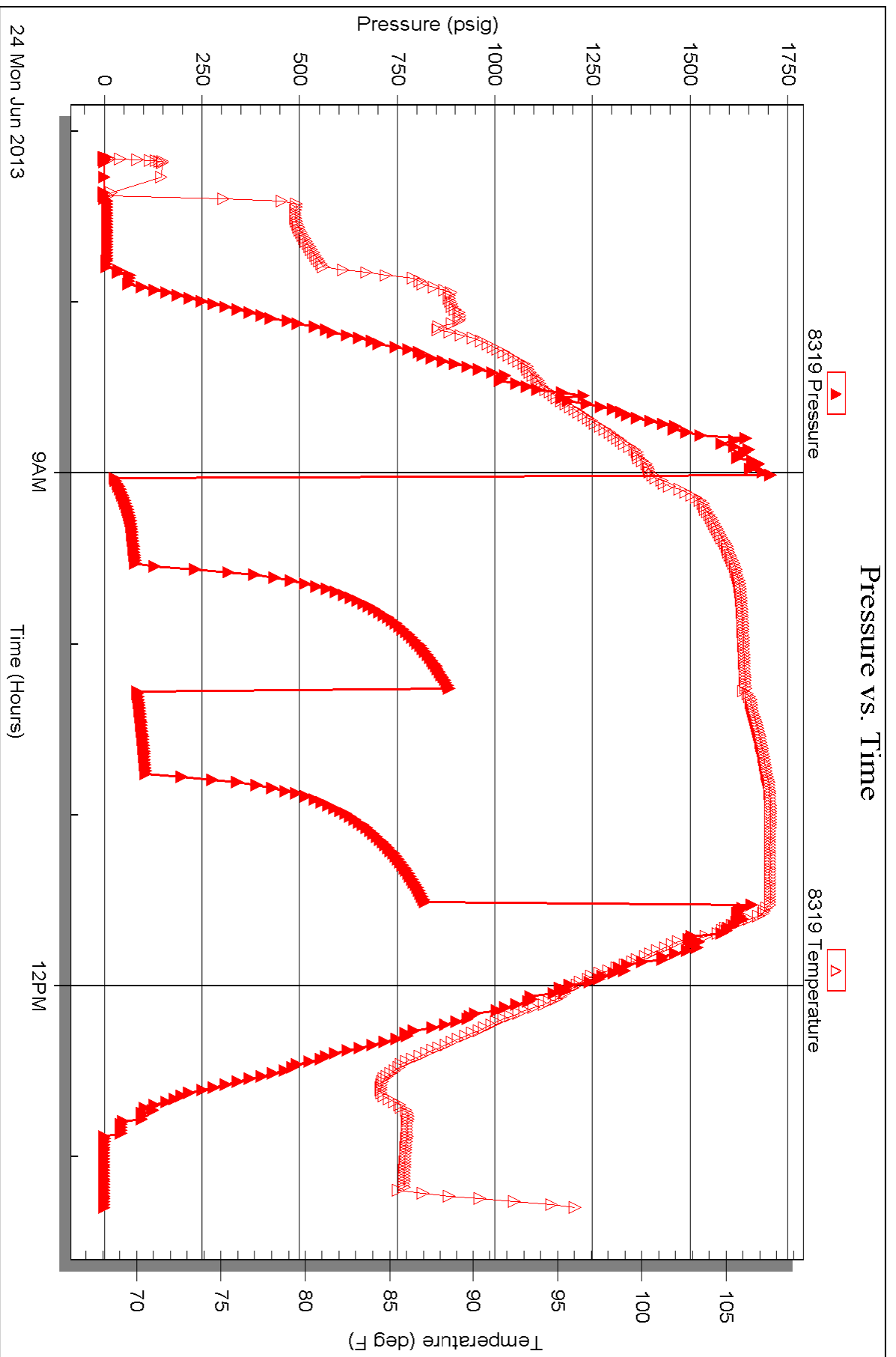
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .213 @ 90 F = 26000







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53979

Well Name & No. Miller #31-1 Test No. 1 Date 6-22-13  
 Company Brinker Enterprises LLC Elevation 1946 KB 1938 GL  
 Address 216 S Marshall St. Glen Elder KS 67446  
 Co. Rep / Geo. Rich Bell Rig WW Rig # 12  
 Location: Sec. 31 Twp. 7S Rge. 31W Co. Rooks State KS

Interval Tested 3180 - 3241 Zone Tested Lansing C-F  
 Anchor Length 61 Drill Pipe Run 307H Mud Wt. 8.8  
 Top Packer Depth 3176 Drill Collars Run 120 Vis 4c  
 Bottom Packer Depth 3180 Wt. Pipe Run 0 WL ~~1210~~ 7.6  
 Total Depth 3241 Chlorides 1700 ppm System LCM 2H

Blow Description Good Blow built to 8in  
Dead ~~no~~ blow back  
Fair blow ~~slow~~ built to 5in  
Dead no blow back

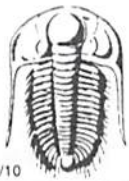
Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>WCM</u>			<u>30</u>	<u>70</u>
<u>120</u>	<u>MCW</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 104 Gravity — API RW 380@ 90 °F Chlorides 13500 ppm  
 (A) Initial Hydrostatic 156.5  Test 1150 T-On Location 06:05  
 (B) First Initial Flow 19  Jars T-Started 07:39  
 (C) First Final Flow 91  Safety Joint T-Open 09:35  
 (D) Initial Shut-In 918  Circ Sub 106 R/T N/C T-Pulled 12:35  
 (E) Second Initial Flow 99  Hourly Standby T-Out 14:35  
 (F) Second Final Flow 132  Mileage 164.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 907  Sampler  Ruined Shale Packer \_\_\_\_\_  
 (H) Final Hydrostatic 1526  Straddle  Ruined Packer \_\_\_\_\_

Initial Open 345  Shale Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Total 1314.30  
 Final Shut-In 45  Day Standby \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1314.30

Approved By Richard Bell Our Representative [Signature] Thanks  
 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53980

Well Name & No. Miller #31-1 Test No. 2 Date 6-23-13  
 Company Brinker Enterprises LLC Elevation 1946 KB 1938 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Rich Bell Rig WW Rig #12  
 Location: Sec. 31 Twp. 7S Rge. 31W Co. Rooks State KS

Interval Tested 3297 3360 Zone Tested LHC I-K  
 Anchor Length 63' Drill Pipe Run 3167 Mud Wt. 9.1  
 Top Packer Depth 3293 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 3297 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3360 Chlorides 1800 ppm System LCM 2#

Blow Description Weak surface blow built to 1/2 in  
Dead no blow back  
Dead no blow  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>50cm</u>	%gas	<u>5</u> %oil	%water	<u>95</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 104 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1650</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>03:25</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars _____	T-Started <u>04:15</u>
(C) First Final Flow <u>25</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>06:20</u>
(D) Initial Shut-In <u>66</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>08:20</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>09:58</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>106 R/H</u> 164.30	Comments _____
(G) Final Shut-In <u>479</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1608</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale 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 1314.30

Sub Total 1314.30

Approved By Richard Bell Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53981

Well Name & No. Miller # 31-1 Test No. 3 Date 6-23-13  
 Company Brinker Enterprises LLC Elevation 1946 KB 1938 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Rich Bell Rig WW Rig #12  
 Location: Sec. 31 Twp. 7S Rge. 3W Co. Rooty State Ks

Interval Tested 3355 3466 Zone Tested Arbuckle  
 Anchor Length \_\_\_\_\_ Drill Pipe Run 3230 Mud Wt. 9.2  
 Top Packer Depth 3351 Drill Collars Run 120 Vis 55  
 Bottom Packer Depth 3355 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3466 Chlorides 2000 ppm System LCM 2<sup>nd</sup>

Blow Description Wealth surface blow built to line  
Dead no blow back  
Dead up blow  
pulled it

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Free Oil</u>				
<u>8</u>	<u>OCM</u>		<u>40</u>		<u>60</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 10 BHT 105 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 175 ppm  
 (A) Initial Hydrostatic 1685  Test 1150 T-On Location 17:50  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 18:50  
 (C) First Final Flow 23  Safety Joint \_\_\_\_\_ T-Open 20:53  
 (D) Initial Shut-In 333  Circ Sub N/C T-Pulled 22:53  
 (E) Second Initial Flow 37  Hourly Standby \_\_\_\_\_ T-Out 00:42  
 (F) Second Final Flow 28  Mileage 106 R/T 164.30  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1638  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 45  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In pulled it  Sub Total 0  
 Sub Total 1314.30 Total 1314.30  
 MP/DST Disc't \_\_\_\_\_

Approved By Richard Bell Our Representative [Signature] Thanks

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53982

Well Name & No. Miller #31-1 Test No. 4 Date 6-24-13  
 Company Brinker Enterprises LLC Elevation 1946 KB 1938 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Rich Bell Rig WWRig #12  
 Location: Sec. 31 Twp. 7S Rge. 31W Co. Rooks State KS

Interval Tested 3416 3431 Zone Tested Arbuckle  
 Anchor Length \_\_\_\_\_ 15 Drill Pipe Run 3292 Mud Wt. 9.2  
 Top Packer Depth \_\_\_\_\_ 3412 Drill Collars Run 120 Vis 55  
 Bottom Packer Depth \_\_\_\_\_ 3416 Wt. Pipe Run 0 WL 7.6  
 Total Depth \_\_\_\_\_ 3431 Chlorides 2000 ppm System LCM 2#

Blow Description Strong surface blow built to 8 in  
Dead no slow back  
Fair surface blow built to 5 1/2 in.  
Dead no slow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>120</u>	<u>MCM</u>		<u>80</u>	<u>20</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 190 ~~190~~ BHT 106 Gravity \_\_\_\_\_ API RW 213 @ 90 °F Chlorides 26000 ppm  
 (A) Initial Hydrostatic 176 ~~176~~  Test 1150 T-On Location 06:00  
 (B) First Initial Flow 24  Jars \_\_\_\_\_ T-Started 07:09  
 (C) First Final Flow 79  Safety Joint \_\_\_\_\_ T-Open 09:00  
 (D) Initial Shut-In 878  Circ Sub N/C T-Pulled 11:30  
 (E) Second Initial Flow 85  Hourly Standby \_\_\_\_\_ T-Out 13:18  
 (F) Second Final Flow 107  Mileage 106 R/H 164.30 Comments Load Tools  
 (G) Final Shut-In 819  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1657  Straddle \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  
 Final Shut-In 45  Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Total 1314.30  
 MP/DST Disc't \_\_\_\_\_

Approved By Richard Bell Our Representative [Signature] Thanks  
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