



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

SGA Inc.  
1515 Wykoop  
STE 700  
Denver Co 80202  
ATTN: Dan Pritchard

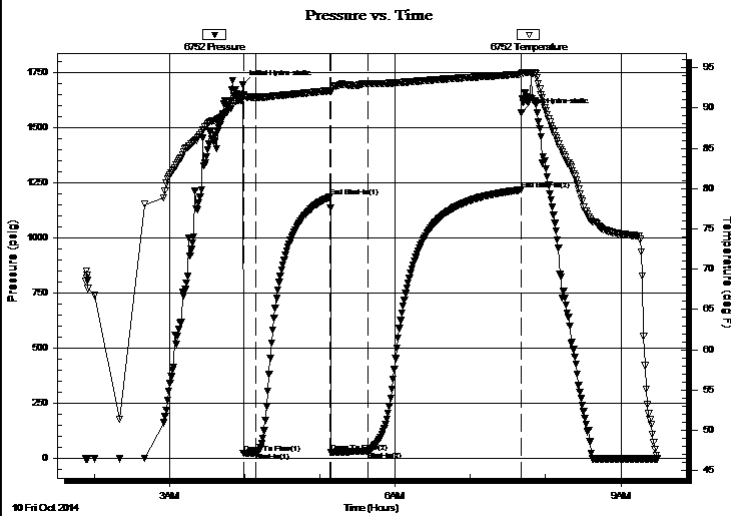
**2-5s-24w Norton KS**  
**Wagoner #2-2**  
Job Ticket: 60026 **DST#: 1**  
Test Start: 2014.10.10 @ 01:53:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC " A "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:58:45  
Time Test Ended: 09:29:15  
Interval: **4478.00 ft (KB) To 4524.00 ft (KB) (TVD)**  
Total Depth: 4524.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ryan Nichols  
Unit No: 78  
Reference Elevations: 2391.00 ft (KB)  
2386.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6752 Inside**  
Press@RunDepth: 31.88 psig @ 4479.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.10.10 End Date: 2014.10.10 Last Calib.: 2014.10.10  
Start Time: 01:53:05 End Time: 09:29:14 Time On Btm: 2014.10.10 @ 03:58:15  
Time Off Btm: 2014.10.10 @ 07:40:45

TEST COMMENT: 10 IF - 3/4" blow built to 1 1/2"  
60 ISI - No return  
30 FF - No blow  
120 FSI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.54	91.47	Initial Hydro-static
1	22.12	91.62	Open To Flow (1)
11	25.24	91.33	Shut-In(1)
70	1186.19	92.16	End Shut-In(1)
71	27.05	92.07	Open To Flow (2)
100	31.88	93.06	Shut-In(2)
222	1217.87	94.19	End Shut-In(2)
223	1568.27	94.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM - 25%o - 75%M	0.07

## Gas Rates

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



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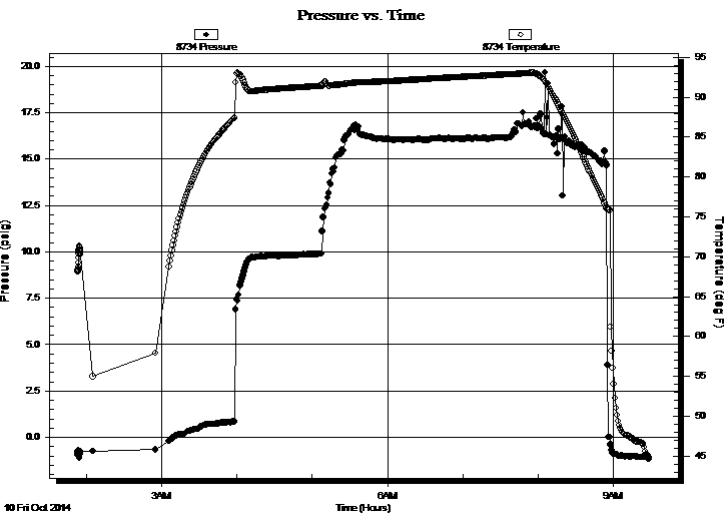
**2-5s-24w Norton KS**  
**Wagoner #2-2**  
Job Ticket: 60026 **DST#: 1**  
Test Start: 2014.10.10 @ 01:53:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC " A "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:58:45  
 Time Test Ended: 09:29:15  
 Interval: **4478.00 ft (KB) To 4524.00 ft (KB) (TVD)**  
 Total Depth: 4524.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Nichols  
 Unit No: 78  
 Reference Elevations: 2391.00 ft (KB)  
 2386.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8734 Fluid**  
 Press@RunDepth: psig @ 4445.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.10 End Date: 2014.10.10 Last Calib.: 2014.10.10  
 Start Time: 01:53:01 End Time: 09:29:10 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 10 IF - 3/4" blow built to 1 1/2"  
 60 ISI - No return  
 30 FF - No blow  
 120 FSI - No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM - 25%o - 75%M	0.07

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

SGA Inc.  
1515 Wykoop  
STE 700  
Denver Co 80202  
ATTN: Dan Pritchard

**2-5s-24w Norton KS**  
**Wagoner #2-2**  
Job Ticket: 60026      **DST#: 1**  
Test Start: 2014.10.10 @ 01:53:00

## Mud and Cushion Information

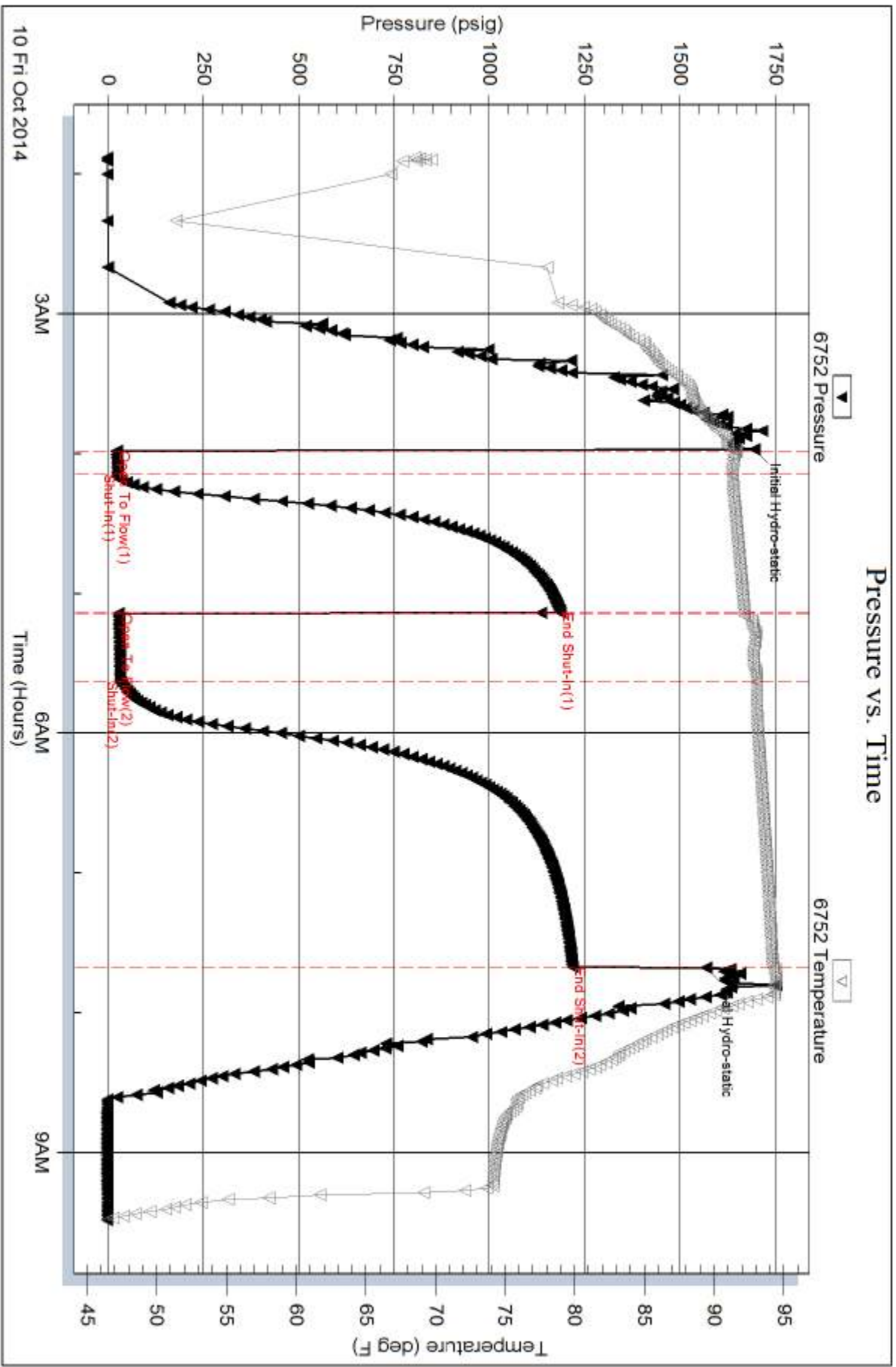
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM - 25%o - 75%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Sampler = 400ml o - 16000ml M - 2000ml total - PSI



Serial #: 8734

Fluid

SGA Inc.

Wagoner #2-2

DST Test Number: 1

