



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Blackhawk Prod. Co  
 1607 Oakmont  
 Hays, KS 67601  
 ATTN: Steve Reed

**10-16s-19w Rush Co.**  
**Carol #1**  
 Job Ticket: 52334      **DST#: 1**  
 Test Start: 2013.07.02 @ 22:11:43

## GENERAL INFORMATION:

Formation: **I & J**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 00:12:58  
 Time Test Ended: 03:19:13  
 Interval: **3496.00 ft (KB) To 3544.00 ft (KB) (TVD)**  
 Total Depth: 3544.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Reynolds  
 Unit No: 48  
 Reference Elevations: 2063.00 ft (KB)  
 2055.00 ft (CF)  
 KB to GR/CF: 8.00 ft

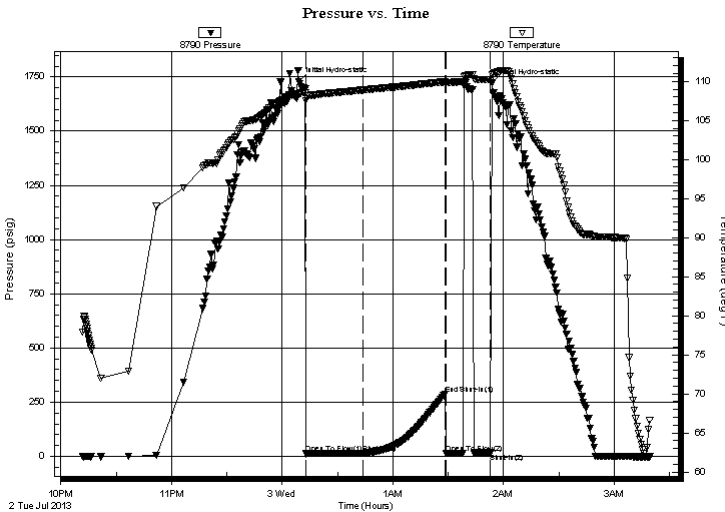
## Serial #: 8790

Inside

Press@RunDepth: 13.82 psig @ 3497.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.07.02      End Date: 2013.07.03      Last Calib.: 2013.07.03  
 Start Time: 22:11:48      End Time: 03:19:12      Time On Btm: 2013.07.03 @ 00:08:58  
 Time Off Btm: 2013.07.03 @ 01:53:43

TEST COMMENT: IF: Weak blow . surf. - dead @ 16min.  
 IS: No blow  
 FF: No blow . (fishd tool 10min. into) No blow  
 No FSI.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.83	108.44	Initial Hydro-static
4	12.03	107.50	Open To Flow (1)
35	13.82	108.89	Shut-In(1)
80	287.97	109.94	End Shut-In(1)
80	14.39	109.79	Open To Flow (2)
104	16.14	110.25	Shut-In(2)
105	1721.53	110.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig mud 100%mud	0.03

## Gas Rates

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



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**FLUID SUMMARY**

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**Carol #1**

Job Ticket: 52334

**DST#: 1**

ATTN: Steve Reed

Test Start: 2013.07.02 @ 22:11:43

## 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:

3100 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drig mud 100%mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

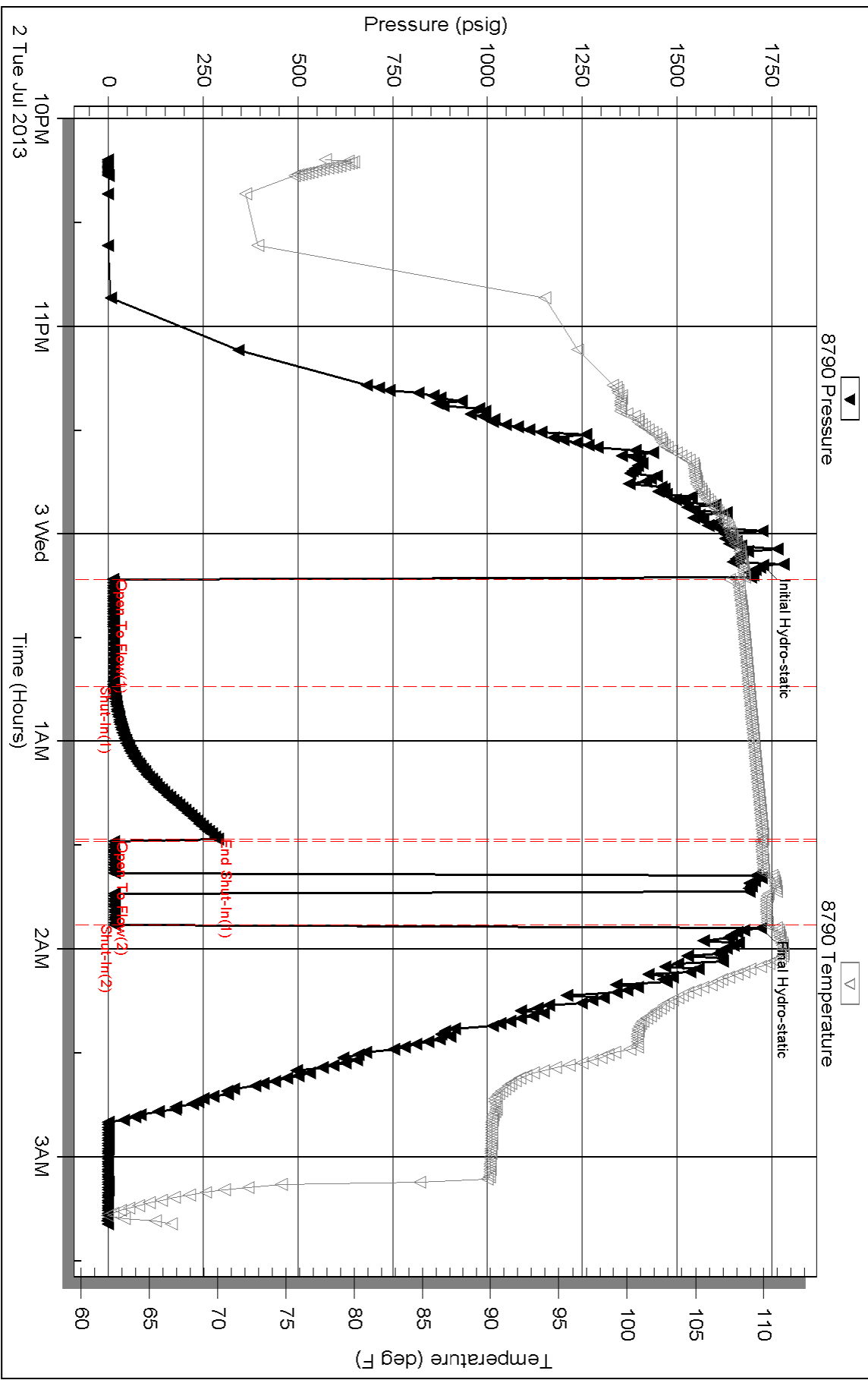
Inside

Blackhawk Prod. Co

Carol #1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52334

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