



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

**16-9s-16w Rooks**

1515 Wynkoop  
STE 700  
Denver, CO 80202  
ATTN: Clayton Camozzi

**JC #1-16**

Job Ticket: 55331

**DST#: 3**

Test Start: 2014.04.22 @ 17:45:16

## GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:33:41  
 Time Test Ended: 01:58:55  
 Interval: **3387.00 ft (KB) To 3440.00 ft (KB) (TVD)**  
 Total Depth: 3440.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2061.00 ft (KB)  
 2053.00 ft (CF)  
 KB to GR/CF: 8.00 ft

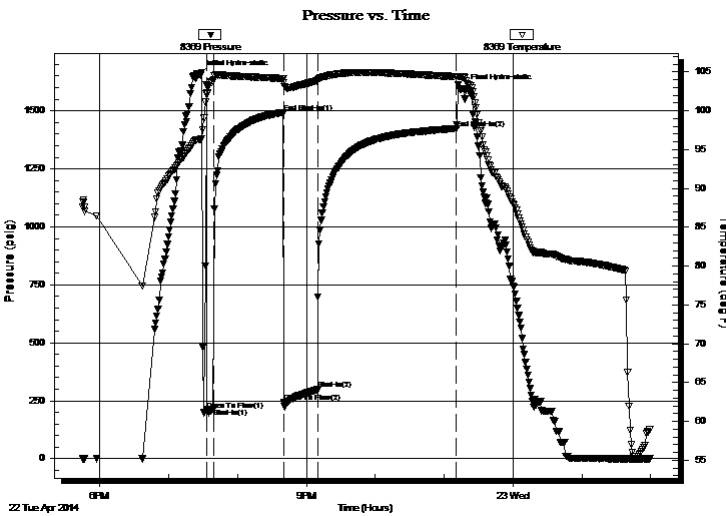
## Serial #: 8369

Inside

Press@RunDepth: 298.37 psig @ 3390.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.22 End Date: 2014.04.23 Last Calib.: 2014.04.23  
 Start Time: 17:45:16 End Time: 01:58:55 Time On Btm: 2014.04.22 @ 19:27:11  
 Time Off Btm: 2014.04.22 @ 23:16:55

TEST COMMENT: 5-IFP-strong bl thru-out lost fluid w / 1st set ,pulled reset , held  
 60-ISIP-no bl  
 30-FFP-w k to strg in 20min  
 120-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.52	96.30	Initial Hydro-static
7	210.55	102.34	Open To Flow (1)
12	215.83	104.00	Shut-In(1)
73	1491.88	104.11	End Shut-In(1)
74	243.11	103.62	Open To Flow (2)
103	298.37	103.84	Shut-In(2)
224	1424.53	104.38	End Shut-In(2)
230	1595.11	104.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
560.00	MW 25%M75%W w / slight show of oil	6.76

\* Recovery from multiple tests

## Gas Rates

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



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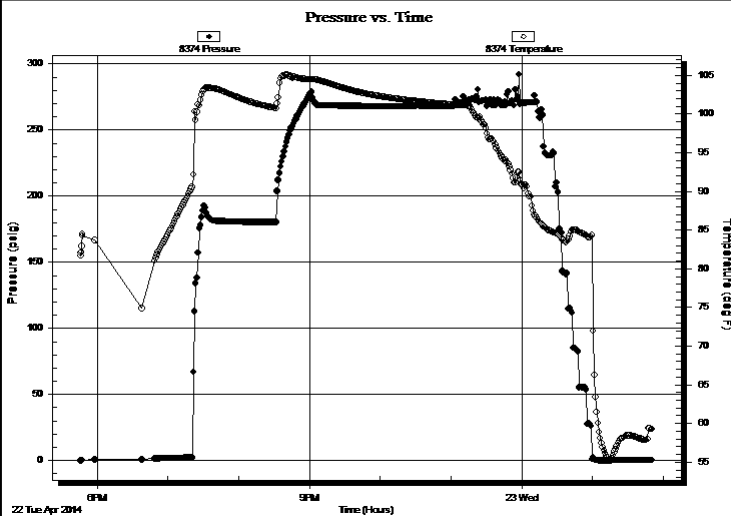
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 Unit No: 70  
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 2053.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8374 Fluid**  
 Press@RunDepth:                      psig @ 3351.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.22 End Date: 2014.04.23 Last Calib.: 2014.04.23  
 Start Time: 17:45:56 End Time: 01:50:50 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 5-IFP-strong bl thru-out lost fluid w / 1st set ,pulled reset , held  
 60-ISIP-no bl  
 30-FFP-w k to strg in 20min  
 120-FSIP-no bl



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
560.00	MW 25%M75%W w / slight show of oil	6.76

## Gas Rates

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

\* Recovery from multiple tests



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## FLUID SUMMARY

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Job Ticket: 55331

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### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 7.19 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 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: 68000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
560.00	MW 25%M75%W w/ slight show of oil	6.762

Total Length: 560.00 ft      Total Volume: 6.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

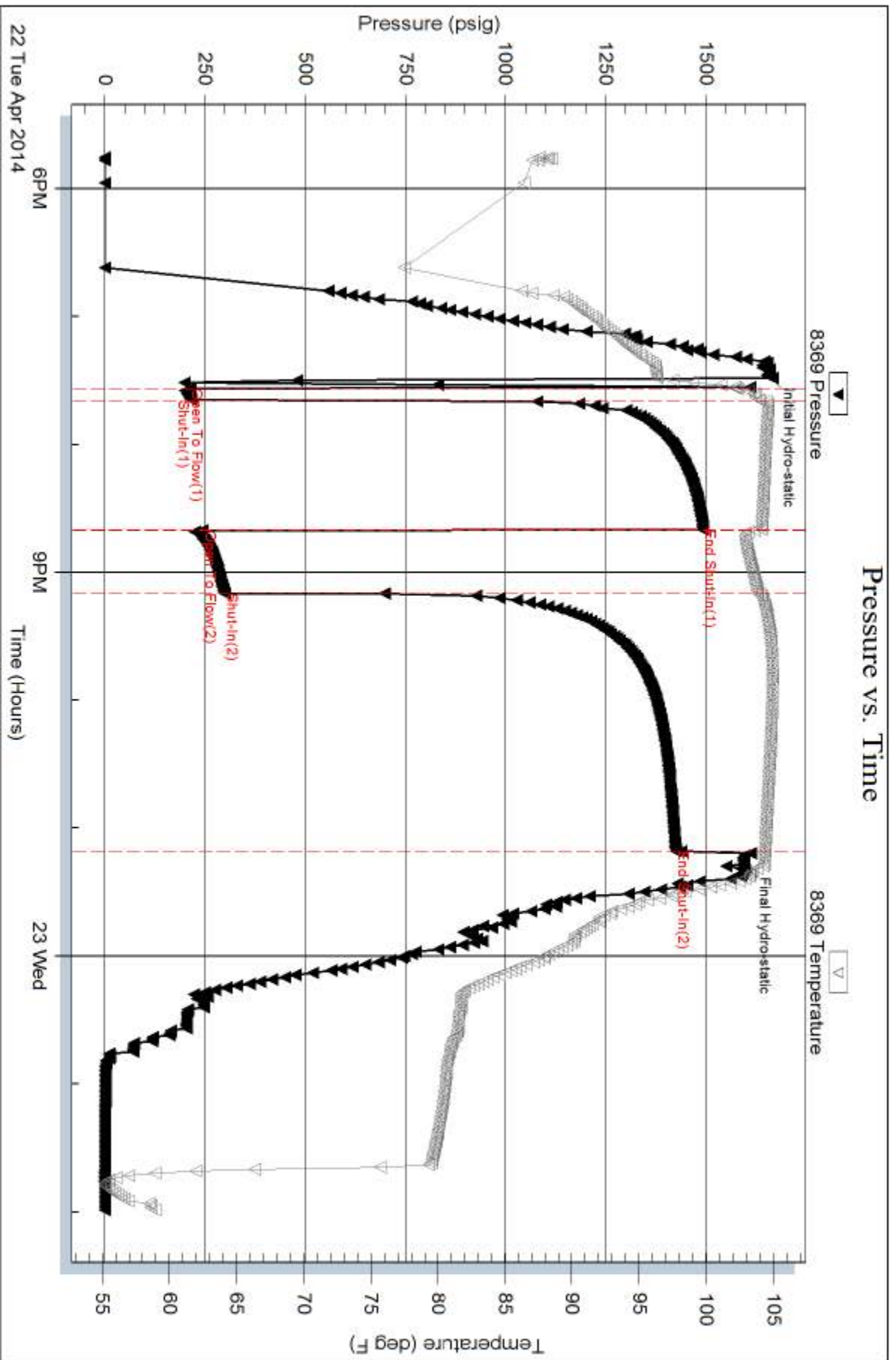
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 250# 500MLmud 1500MLwater  
RW .13@60F

### Pressure vs. Time



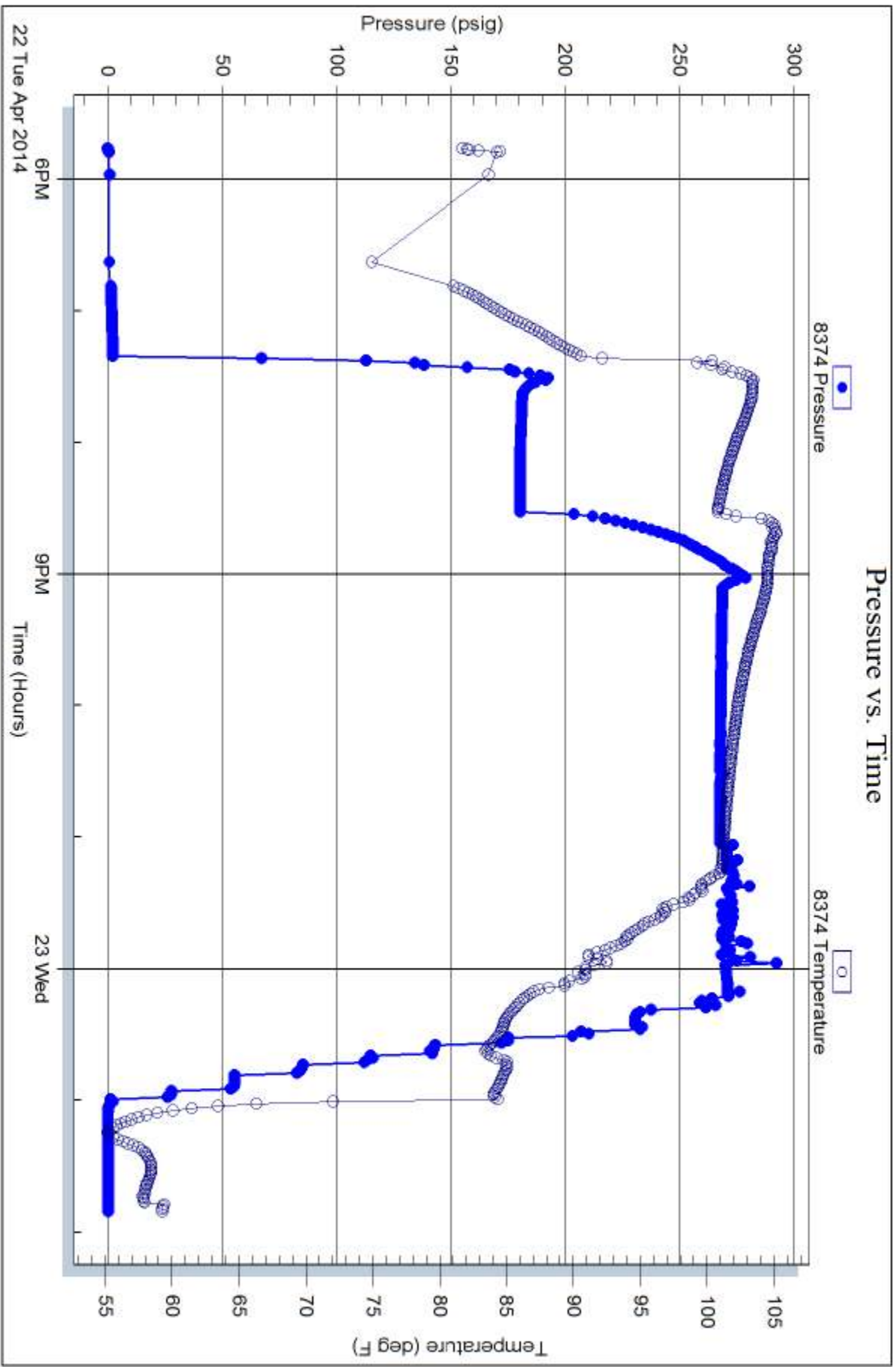
Serial #: 8374

Fluid

Samuel Gary Jr & Assoc Inc

JC #1-16

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55331

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