



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr, & Associates
 1515 Wynkoop St. Suite 700
 Denver CO, 80202
 ATTN: Chris Mitchell

32-14s-15w Russell KS
Schmitt et al 1-32
 Job Ticket: 47769 **DST#: 1**
 Test Start: 2012.07.30 @ 22:54:00

GENERAL INFORMATION:

Formation: **Toronto - Lansing "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:07:00
 Time Test Ended: 07:15:30
 Interval: **3100.00 ft (KB) To 3138.00 ft (KB) (TVD)**
 Total Depth: 3138.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 1907.00 ft (KB)
 1897.00 ft (CF)
 KB to GR/CF: 10.00 ft

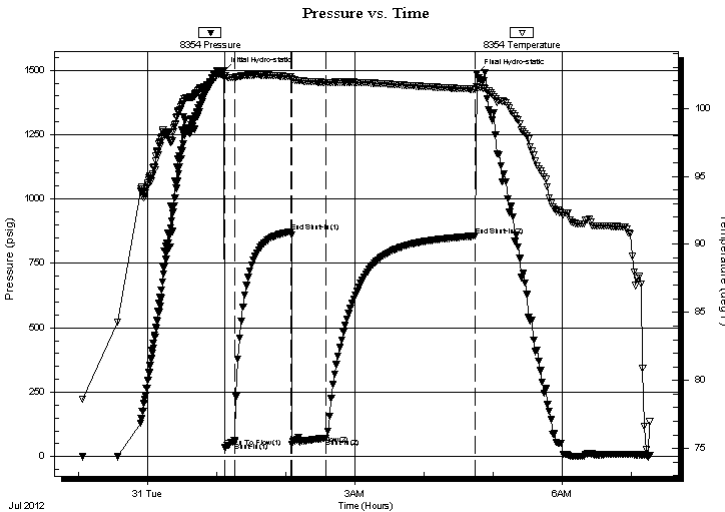
Serial #: 8354

Inside

Press @ Run Depth: 71.95 psig @ 3135.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.30 End Date: 2012.07.31 Last Calib.: 2012.07.31
 Start Time: 23:04:00 End Time: 07:15:30 Time On Btm: 2012.07.31 @ 01:06:30
 Time Off Btm: 2012.07.31 @ 04:45:30

TEST COMMENT: 10 - IF- 4" blow
 60 - IS- No blow back
 30 - FF- 6" blow
 120 - FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1493.54	102.78	Initial Hydro-static
1	37.23	102.39	Open To Flow (1)
10	56.29	102.24	Shut-In(1)
58	873.04	102.31	End Shut-In(1)
59	48.99	102.15	Open To Flow (2)
89	71.95	101.89	Shut-In(2)
218	856.25	101.39	End Shut-In(2)
219	1488.09	101.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	WM, 40%W, 60%M	1.12

Gas Rates

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



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FLUID SUMMARY

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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:

50000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	WM, 40%W, 60%M	1.122

Total Length: 80.00 ft Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

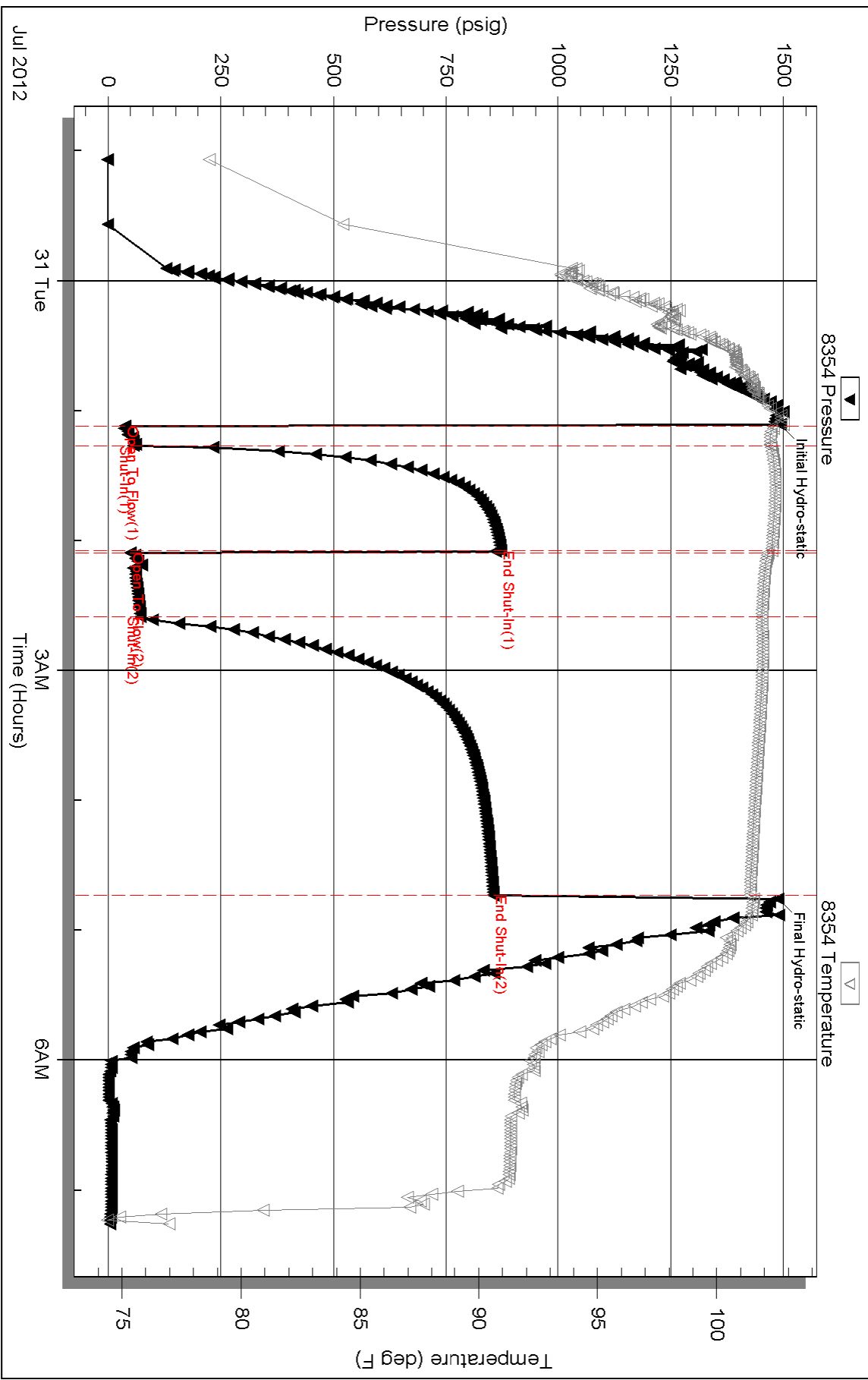
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .15 @ 70 Degrees = 50000

Pressure vs. Time



Serial #: 8653

Fluid

Samuel Gary Jr. & Associates

Schnittl et al 1-32

DST Test Number: 1

