



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: 47770 **DST#: 2**
 Test Start: 2012.07.31 @ 15:59:00

GENERAL INFORMATION:

Formation: **Lansing "C-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:39:10
 Time Test Ended: 01:07:00
 Interval: **3143.00 ft (KB) To 3182.00 ft (KB) (TVD)**
 Total Depth: 3182.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 1907.00 ft (KB)
 1897.00 ft (CF)
 KB to GR/CF: 10.00 ft

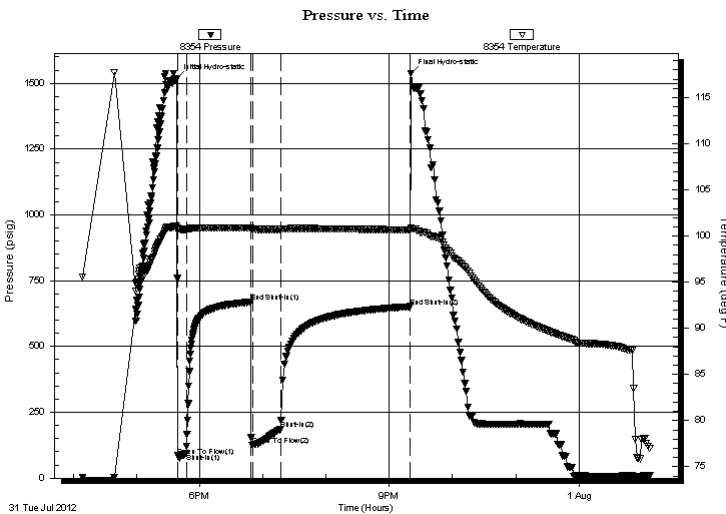
Serial #: 8354

Inside

Press @ Run Depth: 185.98 psig @ 3179.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.31 End Date: 2012.08.01 Last Calib.: 2012.08.01
 Start Time: 16:09:00 End Time: 01:07:00 Time On Btm: 2012.07.31 @ 17:38:20
 Time Off Btm: 2012.07.31 @ 21:20:30

TEST COMMENT: 10 - IF- B.O.B. in 4 Min.
 60 - IS- 8" blow back in 26 Min, died back to a 3" blow
 30 - FF- B.O.B. in 30 Seconds
 120 - FS- G.T.S @ bleed off, B.O.B. in 15 Min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1517.23	101.13	Initial Hydro-static
1	84.40	100.83	Open To Flow (1)
9	95.80	100.72	Shut-In(1)
71	668.71	100.89	End Shut-In(1)
72	125.40	100.78	Open To Flow (2)
99	185.98	100.73	Shut-In(2)
222	651.47	100.66	End Shut-In(2)
223	1537.73	100.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCWO, 5%M, 10%W, 25%G, 60%O	0.87
186.00	GMCO, 30%M, 30%O, 40%G	2.61
186.00	GO, 20%G, 80%O	2.61
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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DST#: 2

ATTN: Chris Mitchell

Test Start: 2012.07.31 @ 15:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GMCWO, 5%M, 10%W, 25%G, 60%O	0.870
186.00	GMCO, 30%M, 30%O, 40%G	2.609
186.00	GO, 20%G, 80%O	2.609
0.00	GTS	0.000

Total Length: 434.00 ft

Total Volume: 6.088 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

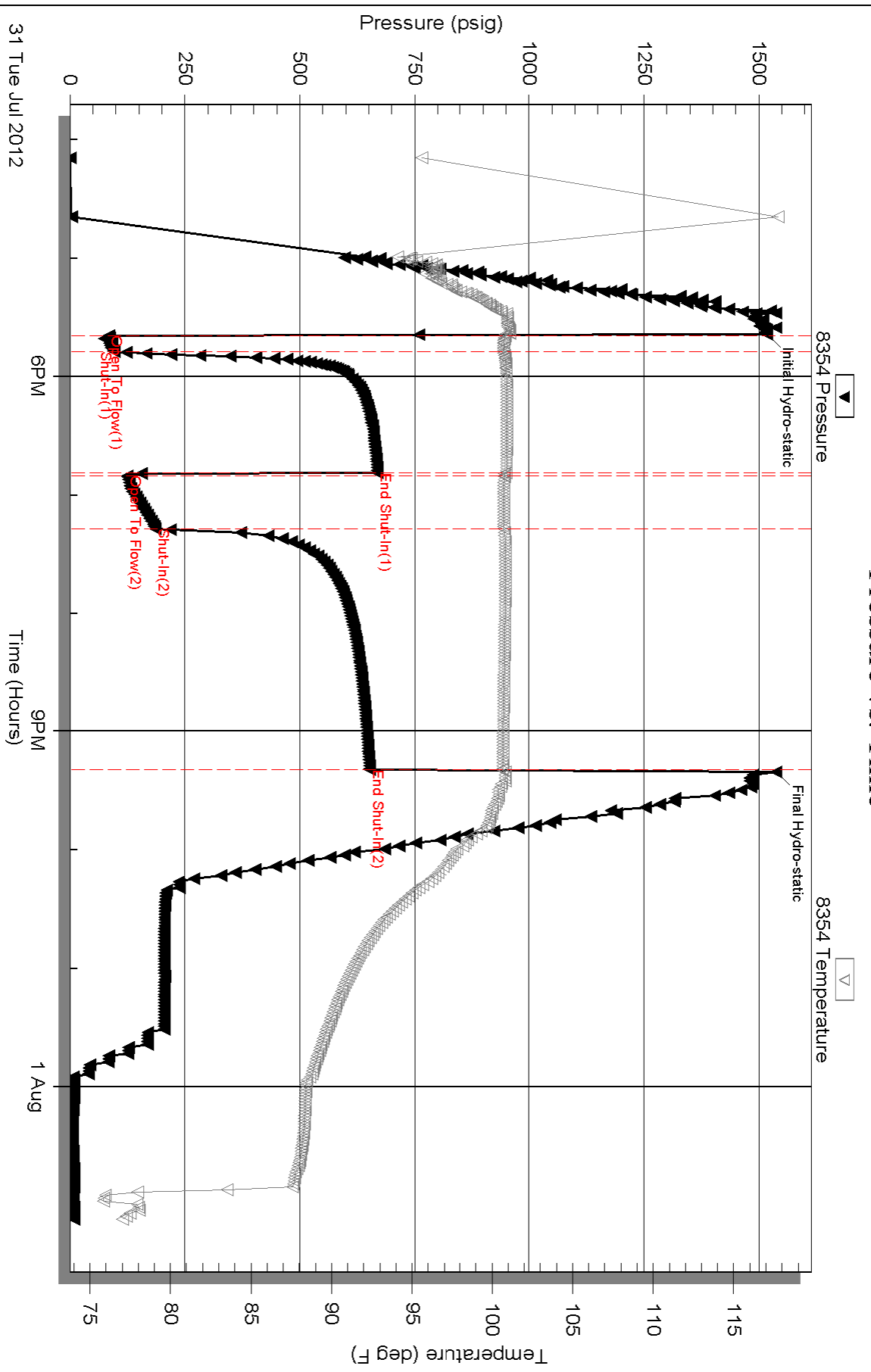
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8653

Fluid

Samuel Gary Jr. & Associates

Schnitli et al 1-32

DST Test Number: 2

