



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

22-9S-16W Rooks, KS

1515 Wynkoop Ste. 700
Denver, CO 80202

Casey #1-22

Job Ticket: 58387

DST#: 3

ATTN: Dan Pritchard

Test Start: 2014.08.02 @ 05:09:27

GENERAL INFORMATION:

Formation: **LKC- "D&F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:27

Time Test Ended: 14:09:57

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3256.00 ft (KB) To 3320.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

2073.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960

Inside

Press@RunDepth: 47.52 psig @ 3257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.02

End Date:

2014.08.02

Last Calib.:

2014.08.02

Start Time: 05:09:28

End Time:

14:09:57

Time On Btm:

2014.08.02 @ 07:19:27

Time Off Btm:

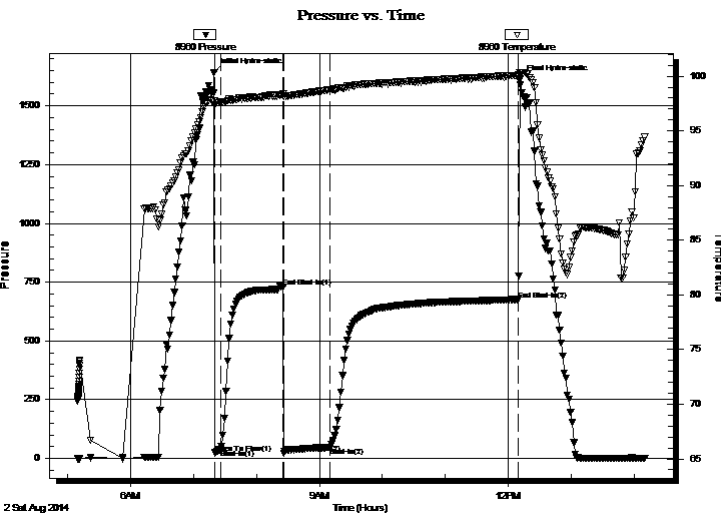
2014.08.02 @ 12:10:57

TEST COMMENT: 005- IF- Slow ly built to 1"

060- IS- No blow

045- FF- BOB 36mins

180- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.34	97.79	Initial Hydro-static
1	23.88	97.41	Open To Flow (1)
6	36.52	97.65	Shut-In(1)
66	728.70	98.37	End Shut-In(1)
67	21.99	98.16	Open To Flow (2)
111	47.52	98.78	Shut-In(2)
290	675.62	100.10	End Shut-In(2)
292	1614.03	100.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM, 10%O 90%M	0.55
0.00	130' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 62

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Reference Elevations: 2081.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

2073.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Below (Straddle)

Press@RunDepth: psig @ 3323.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.02

End Date:

2014.08.02

Last Calib.:

2014.08.02

Start Time: 05:08:46

End Time:

14:09:26

Time On Btm:

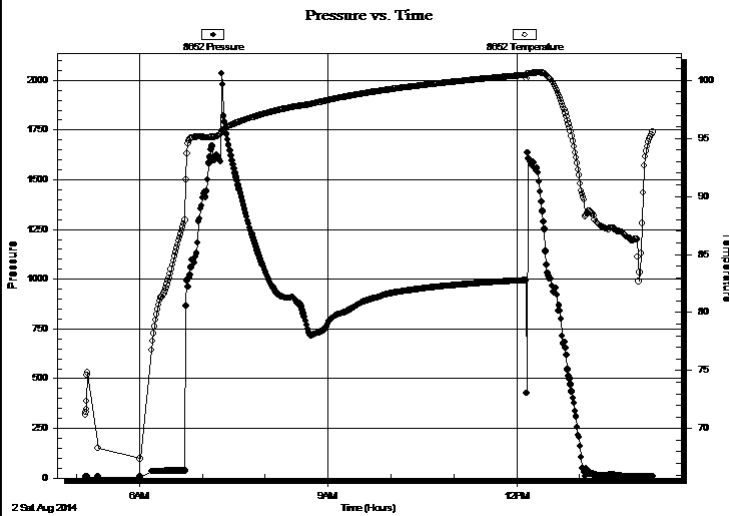
Time Off Btm:

TEST COMMENT: 005- IF- Slow ly built to 1"

060- IS- No blow

045- FF- BOB 36mins

180- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM, 10%O 90%M	0.55
0.00	130' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

22-9S-16W Rooks, KS

1515 Wynkoop Ste. 700
Denver, CO 80202

Casey #1-22

Job Ticket: 58387

DST#: 3

ATTN: Dan Pritchard

Test Start: 2014.08.02 @ 05:09:27

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCM, 10%O 90%M	0.549
0.00	130' GIP	0.000

Total Length: 60.00 ft Total Volume: 0.549 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

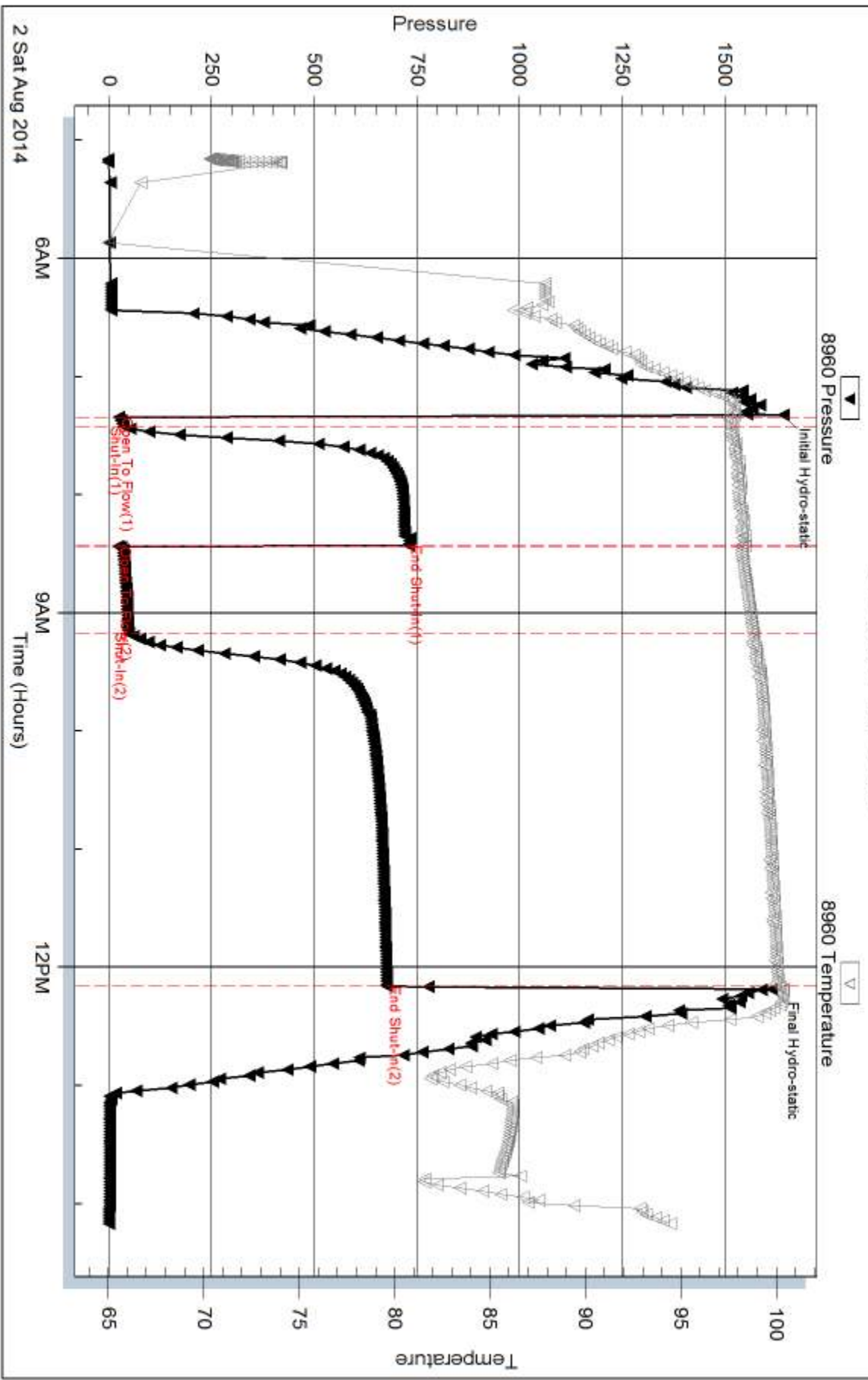
Serial #:

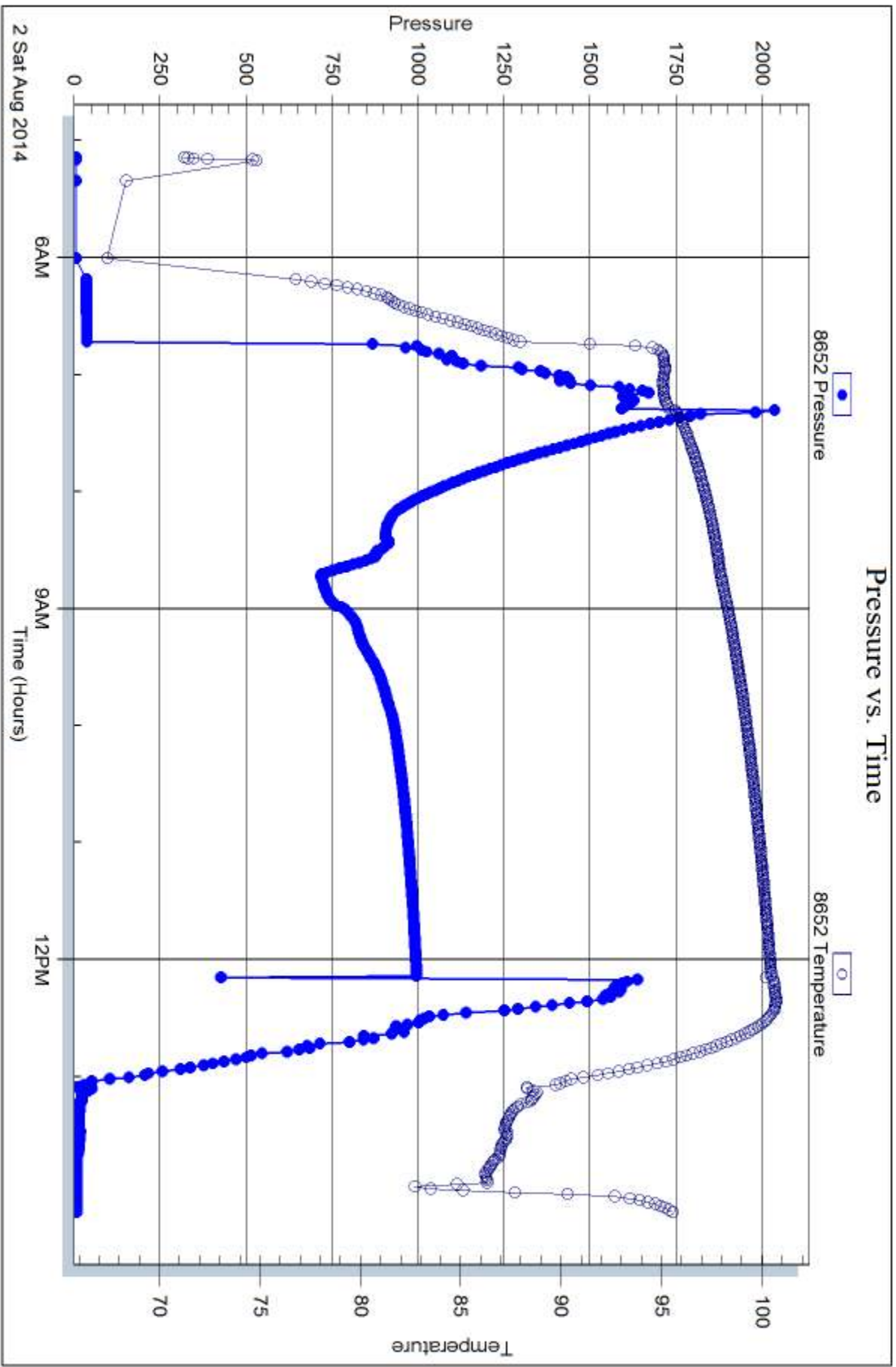
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 700mL M & 1300mL O @ 285PSI

Pressure vs. Time





Serial #: 8651

Fluid

Samuel Gary Jr. & Associates, Inc.

Casey #1-22

DST Test Number: 3

