



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-9S-29W Sheridan, KS

1515 Wynkoop, Ste 700
Denver, CO 80202

Wigginton et al 1-19

Job Ticket: 61156

DST#: 1

ATTN: Chris Mitchell

Test Start: 2015.02.08 @ 09:35:13

GENERAL INFORMATION:

Formation: **KC "I&J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:13

Time Test Ended: 18:04:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 4086.00 ft (KB) To 4132.00 ft (KB) (TVD)

Reference Elevations: 2847.00 ft (KB)

Total Depth: 4132.00 ft (KB) (TVD)

2839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8651

Inside

Press@RunDepth: 29.17 psig @ 4087.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.08

End Date:

2015.02.08

Last Calib.:

2015.02.08

Start Time: 09:35:14

End Time:

18:04:13

Time On Btm:

2015.02.08 @ 13:16:13

Time Off Btm:

2015.02.08 @ 16:19:43

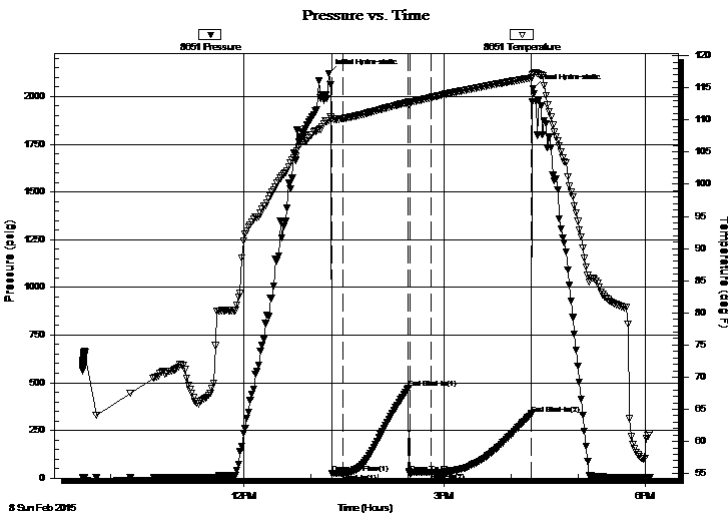
TEST COMMENT: 10- IF- Built very slow ly to .25"

60- IS- No blow

20- FF- No blow

90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.77	109.85	Initial Hydro-static
3	26.23	110.16	Open To Flow (1)
13	26.24	110.22	Shut-In(1)
72	471.62	112.76	End Shut-In(1)
73	25.65	112.72	Open To Flow (2)
92	29.17	113.49	Shut-In(2)
182	337.42	116.54	End Shut-In(2)
184	2040.47	117.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.02

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

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Test Start: 2015.02.08 @ 09:35:13

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:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

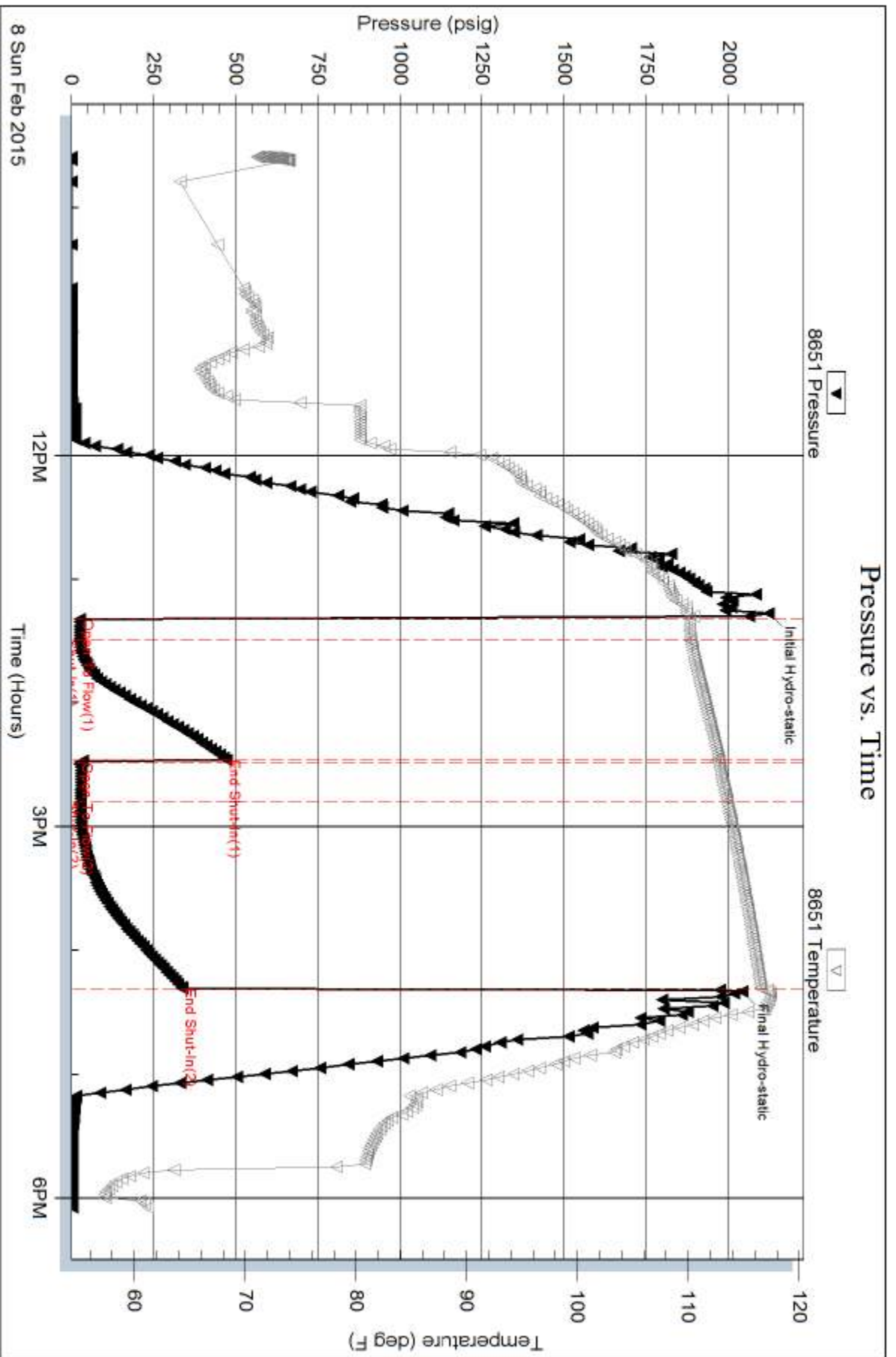
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL M @ 55PSI



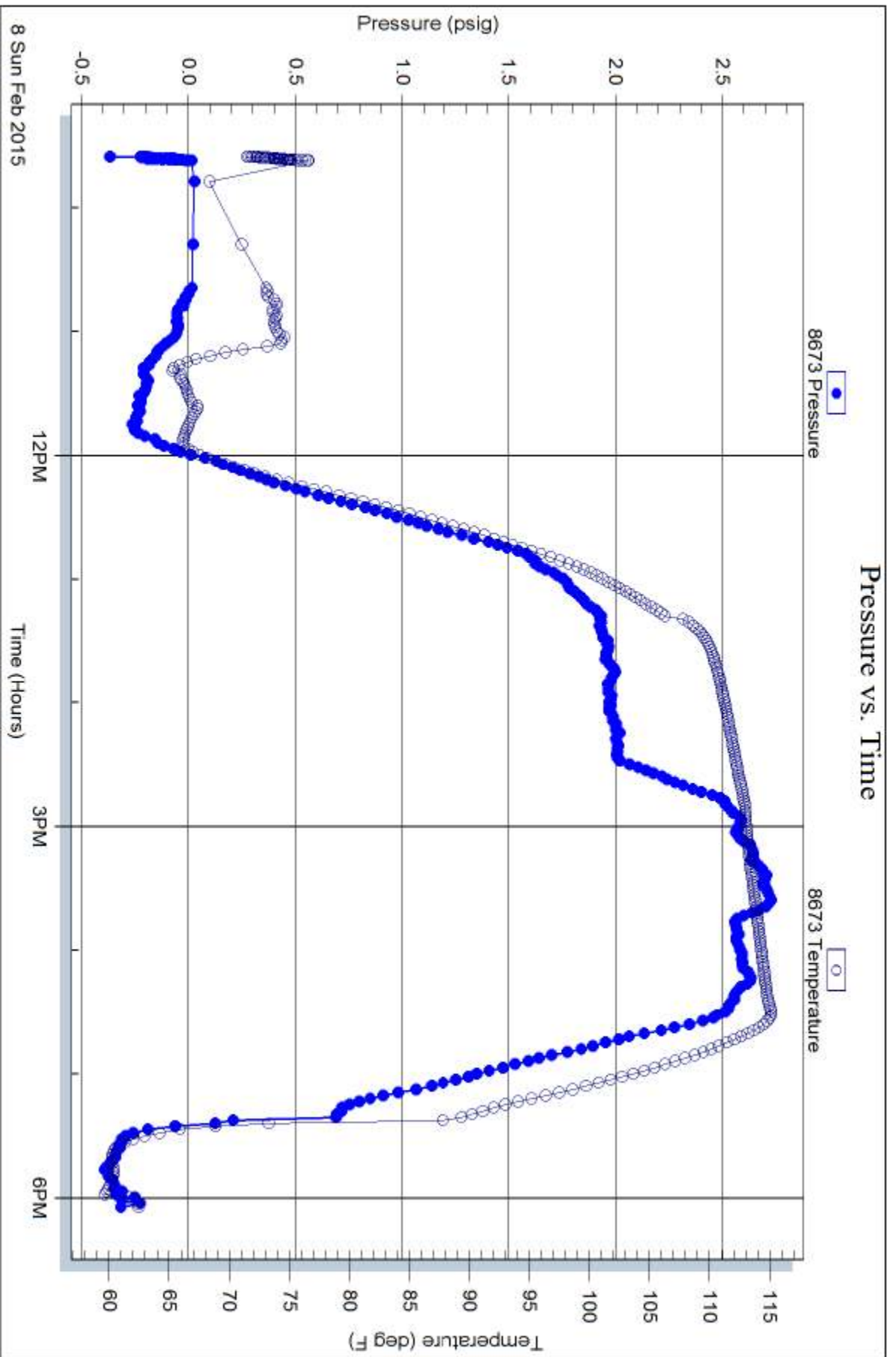
Serial #: 8673

Fluid

Samuel Gary Jr. & Associates, Inc.

Wiginton et al 1-19

DST Test Number: 1



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Ref. No: 61156

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