



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58755

DST#: 1

Test Start: 2014.04.12 @ 01:31:39

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:09

Time Test Ended: 08:55:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 48

Interval: 3497.00 ft (KB) To 3526.00 ft (KB) (TVD)

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3526.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8321 Outside

Press@RunDepth: 24.86 psig @ 3498.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.12

End Date:

2014.04.12

Last Calib.: 2014.04.12

Start Time: 01:31:40

End Time:

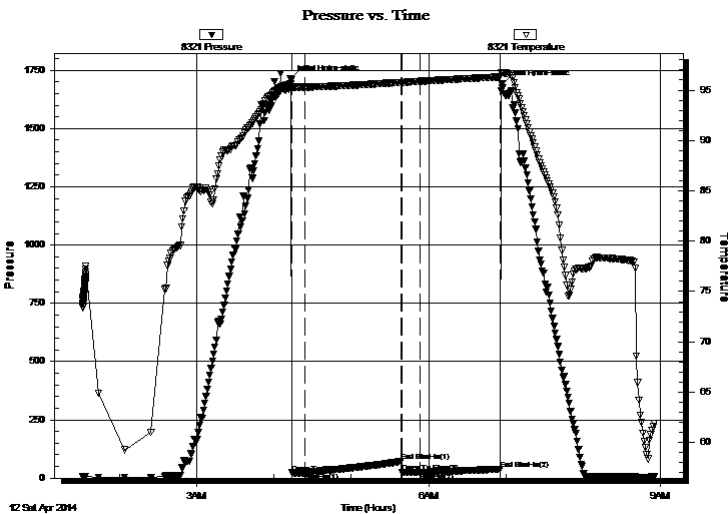
08:55:39

Time On Btm: 2014.04.12 @ 04:12:39

Time Off Btm: 2014.04.12 @ 06:56:39

TEST COMMENT: 10- IF- Weak surface blow
75- IS- No blow
15- FF- No blow
60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.27	95.57	Initial Hydro-static
2	22.33	95.19	Open To Flow (1)
12	23.54	95.30	Shut-In(1)
86	70.86	95.77	End Shut-In(1)
87	24.83	95.76	Open To Flow (2)
101	24.86	95.87	Shut-In(2)
163	38.61	96.31	End Shut-In(2)
164	1690.34	96.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M w / oil spots	0.00

Gas Rates

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



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Total Depth: 3526.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647 Fluid

Press@RunDepth: psig @ 3469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.12

End Date:

2014.04.12

Last Calib.:

2014.04.12

Start Time: 01:32:19

End Time:

08:54:48

Time On Btm:

Time Off Btm:

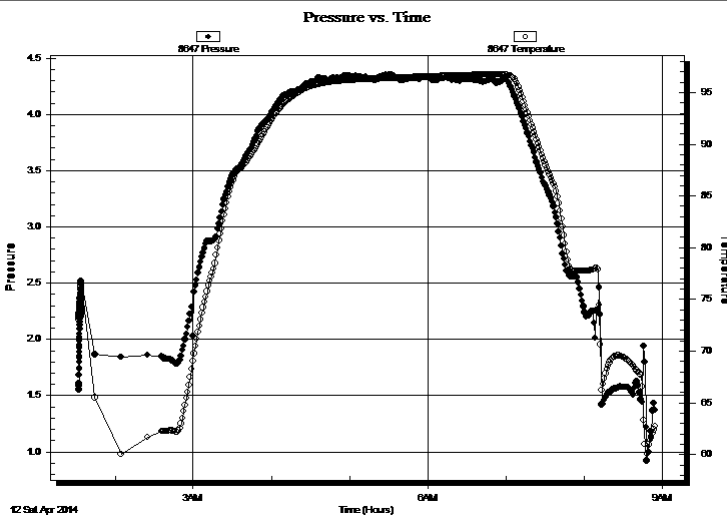
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PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M w / oil spots	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58755

DST#: 1

Test Start: 2014.04.12 @ 01:31:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M w / oil spots	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

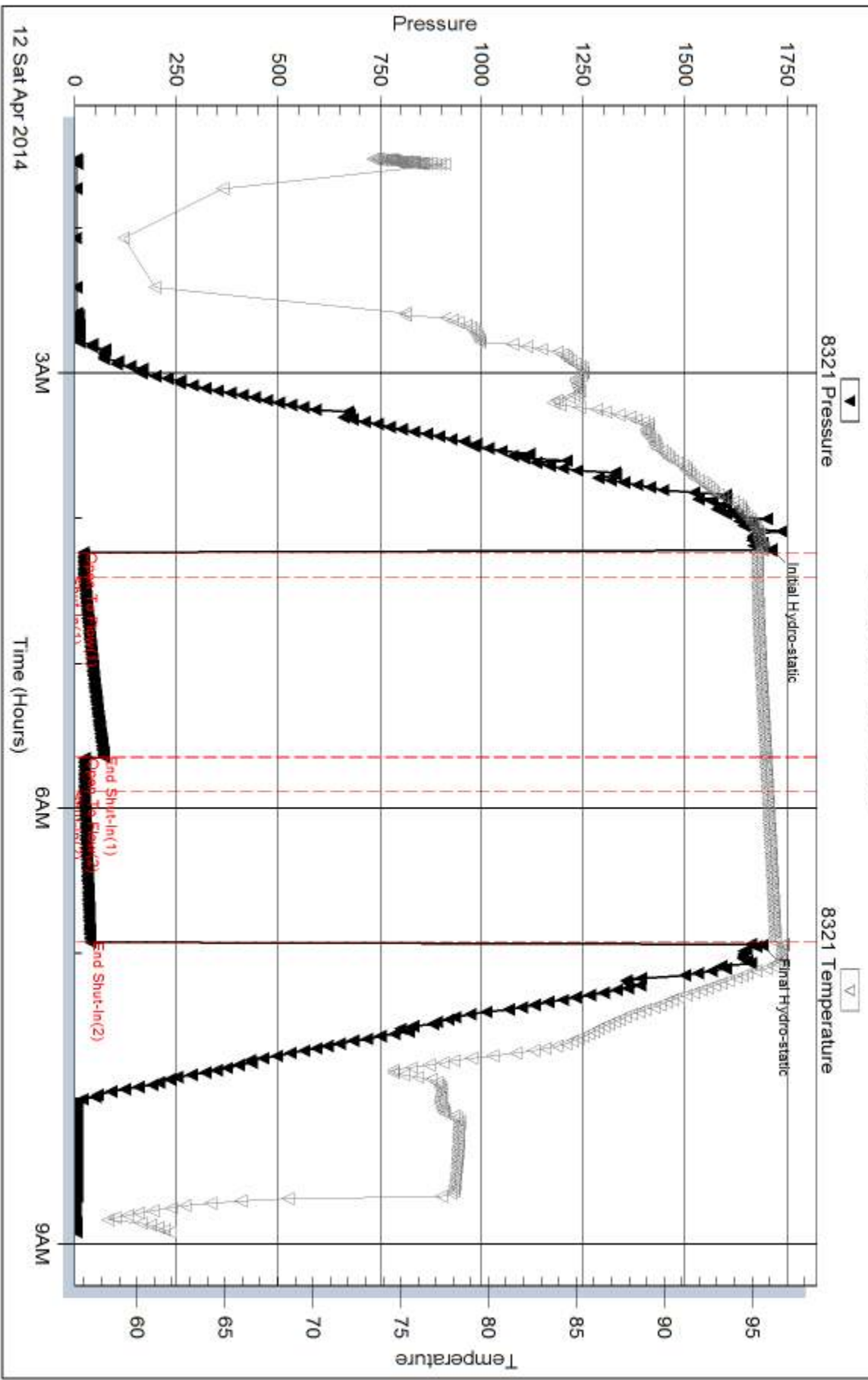
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL M w / oil spots @ 20PSI

Pressure vs. Time



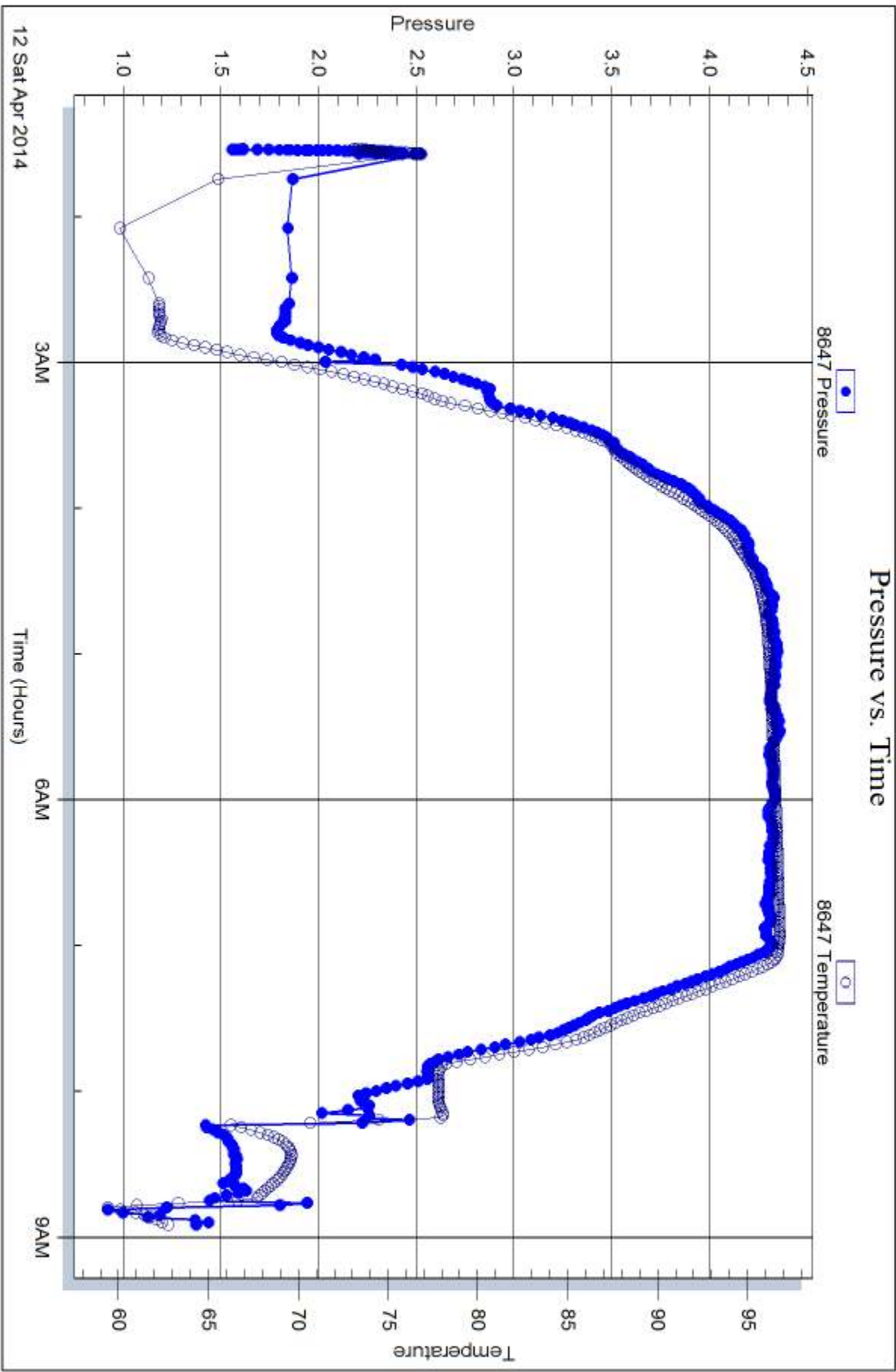
Serial #: 8647

Fluid

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Bales #1-26

DST Test Number: 1



Trilobe Testing, Inc

Ref. No: 58755

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