



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1-5S-24W - Norton, KS

Nuernberger #3-1

Job Ticket: 55924

DST#: 2

ATTN: Dan Pritchard

Test Start: 2014.10.21 @ 07:47:00

GENERAL INFORMATION:

Formation: **LKC "H & I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:58:00

Time Test Ended: 13:58:00

Test Type: Conventional Straddle (Initial)

Tester: Donovan Baumann

Unit No: 66

Interval: 3589.00 ft (KB) To 3622.00 ft (KB) (TVD)

Reference Elevations: 2316.00 ft (KB)

Total Depth: 3622.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8874

Inside

Press@RunDepth: 29.61 psig @ 3590.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.21

End Date:

2014.10.21

Last Calib.: 2014.10.21

Start Time: 07:48:00

End Time:

13:58:00

Time On Btm: 2014.10.21 @ 09:57:00

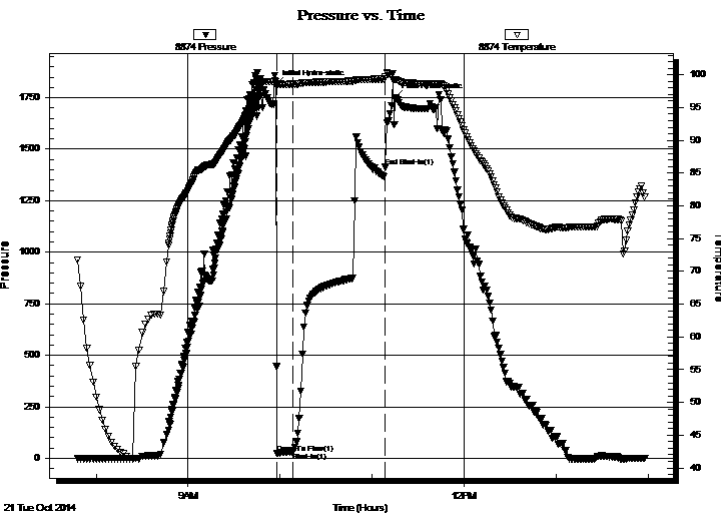
Time Off Btm: 2014.10.21 @ 11:15:00

TEST COMMENT: 10 - IF - Weak surface blow built to 2 1/2 in. in 10 min.

60 - ISI - No return

FF - PACKER FAILULER

FSI -



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.22	99.00	Initial Hydro-static
1	25.07	98.58	Open To Flow (1)
11	29.61	98.55	Shut-In(1)
72	1413.04	99.64	End Shut-In(1)
78	1752.00	99.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
716.00	OSM - 100M - Oil spots	9.76

Gas Rates

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



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KB to GR/CF: 8.00 ft

Serial #: 8017 Below (Straddle)

Press@RunDepth: psig @ 3622.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.21

End Date:

2014.10.21

Last Calib.:

2014.10.21

Start Time: 07:48:00

End Time:

13:58:00

Time On Btm:

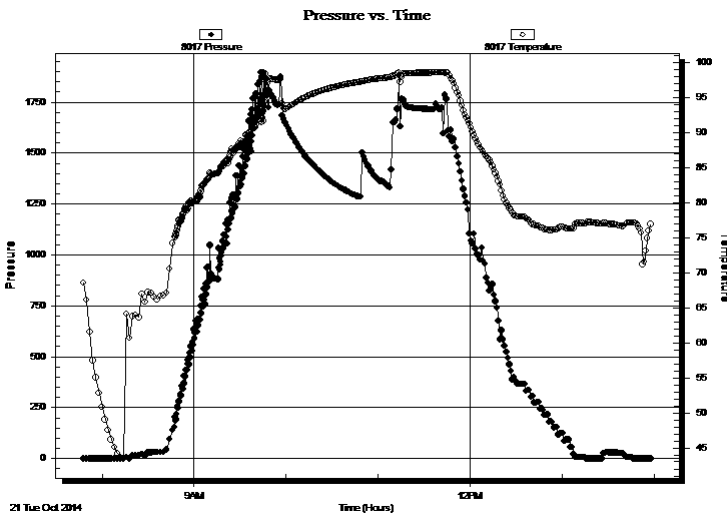
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Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
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Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

1-5S-24W - Norton, KS

Nuernberger #3-1

Job Ticket: 55924

DST#: 2

ATTN: Dan Pritchard

Test Start: 2014.10.21 @ 07:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 9.59 in³

Resistivity: 0.00 ohm.m

Salinity: 500.00 ppm

Filter Cake: 1.00 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
716.00	OSM - 100M - Oil spots	9.761

Total Length: 716.00 ft Total Volume: 9.761 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8874

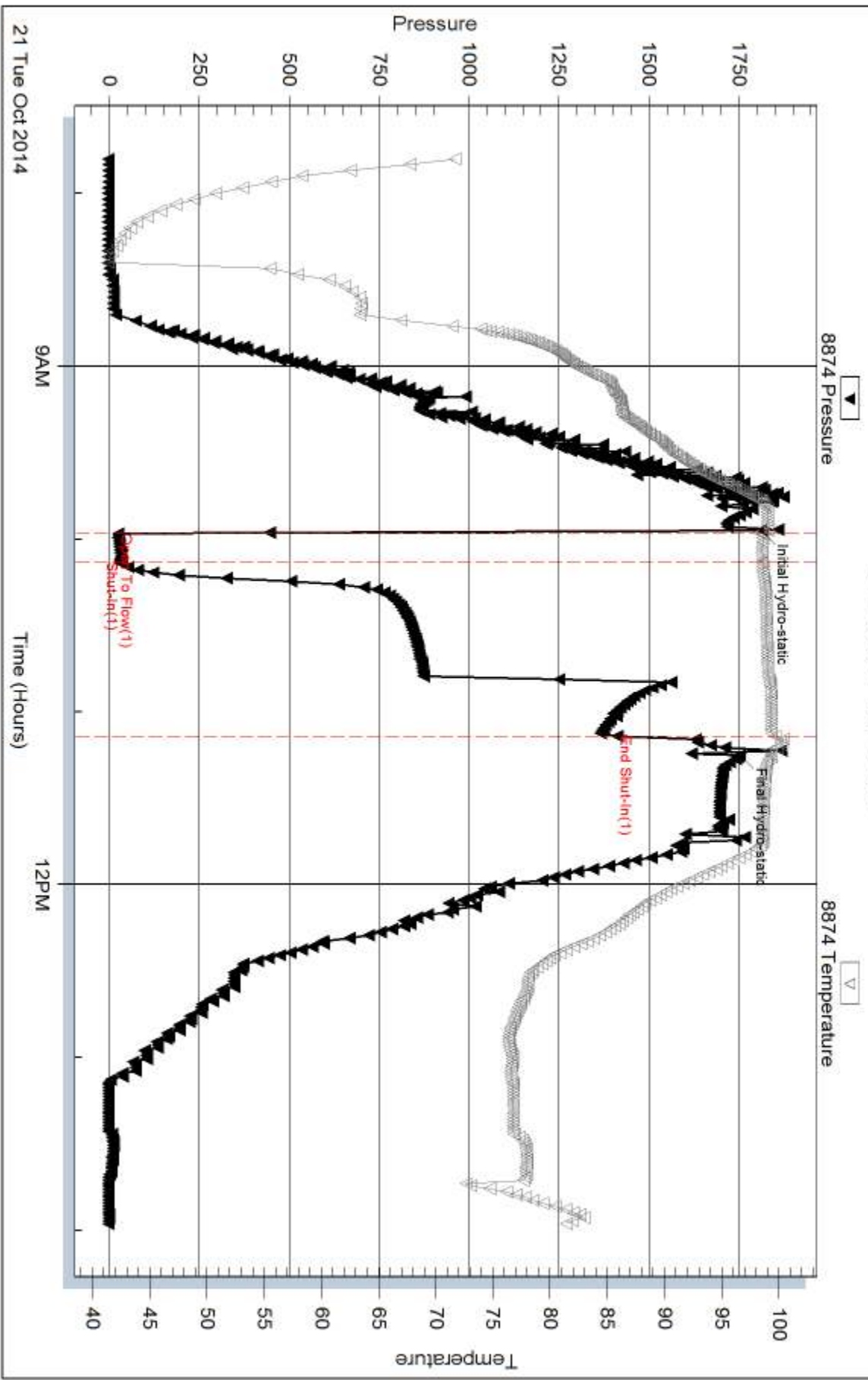
Inside

Samuel Gary Jr. & Associates

Nuumberger #3-1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 55924

Printed: 2014, 10, 21 @ 15:39:06



Serial #: 8520

Fluid

Samuel Gary Jr. & Associates

Nuumberger #3-1

DST Test Number: 2

