



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates, Inc.

11-5S-23W - Norton, KS

1515 Wynkoop STE #700
Denver, CO 80202

Hager Trust #2-11

Job Ticket: 56962

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2014.03.19 @ 05:15:00

GENERAL INFORMATION:

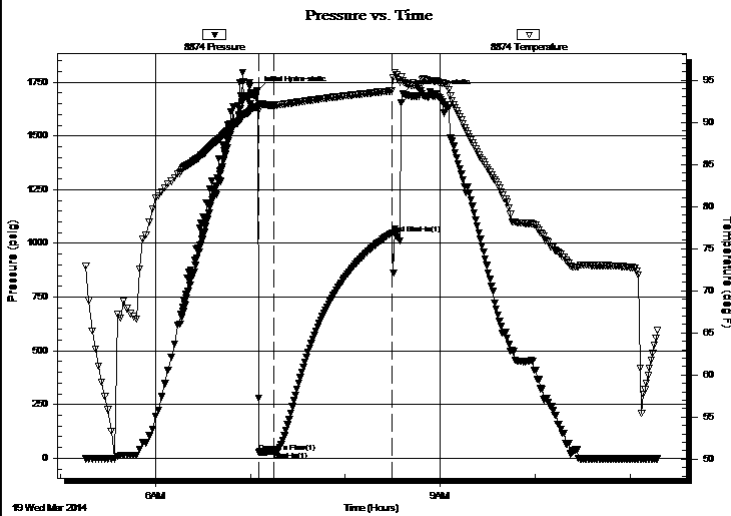
Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:05:30
 Time Test Ended: 11:18:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Interval: **3520.00 ft (KB) To 3568.00 ft (KB) (TVD)**
 Total Depth: 3568.00 ft (KB) (TVD)
 Reference Elevations: 2201.00 ft (KB)
 2191.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8874

Inside

Press@RunDepth: 30.73 psig @ 3521.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.19 End Date: 2014.03.19 Last Calib.: 2014.03.19
 Start Time: 05:16:00 End Time: 11:18:00 Time On Btm: 2014.03.19 @ 07:04:50
 Time Off Btm: 2014.03.19 @ 08:36:30

TEST COMMENT: 10 - IF- 3/4" Blow died back to surface Blow .
 75 - ISI- No Return
 FF- Opened tool and lost packer seat. Tried to re-set packers. Would not hold.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.27	91.89	Initial Hydro-static
1	28.73	91.92	Open To Flow (1)
11	30.73	92.03	Shut-In(1)
85	1045.77	93.72	End Shut-In(1)
92	1696.70	94.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1100.00	Mud 100M	14.32

Gas Rates

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



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Time Test Ended: 11:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3520.00 ft (KB) To 3568.00 ft (KB) (TVD)

Total Depth: 3568.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2201.00 ft (KB)

2191.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8520

Fluid

Press@RunDepth: psig @ 3490.00 ft (KB)

Start Date: 2014.03.19

End Date:

2014.03.19

Start Time: 05:16:00

End Time:

11:18:00

Capacity: 8000.00 psig

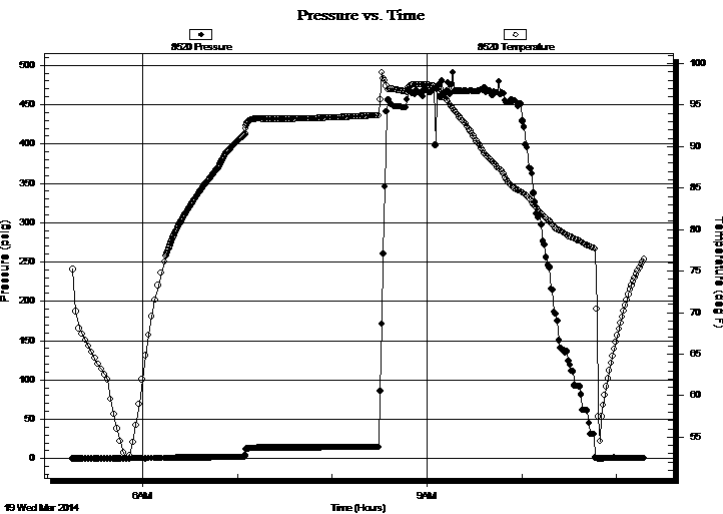
Last Calib.:

2014.03.19

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IF- 3/4" Blow died back to surface Blow .
75 - ISI- No Return
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PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1100.00	Mud 100M	14.32

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Associates, Inc.

11-5S-23W - Norton, KS

1515 Wynkoop STE #700
Denver, CO 80202

Hager Trust #2-11

Job Ticket: 56962

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2014.03.19 @ 05:15:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1100.00	Mud 100M	14.319

Total Length: 1100.00 ft Total Volume: 14.319 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

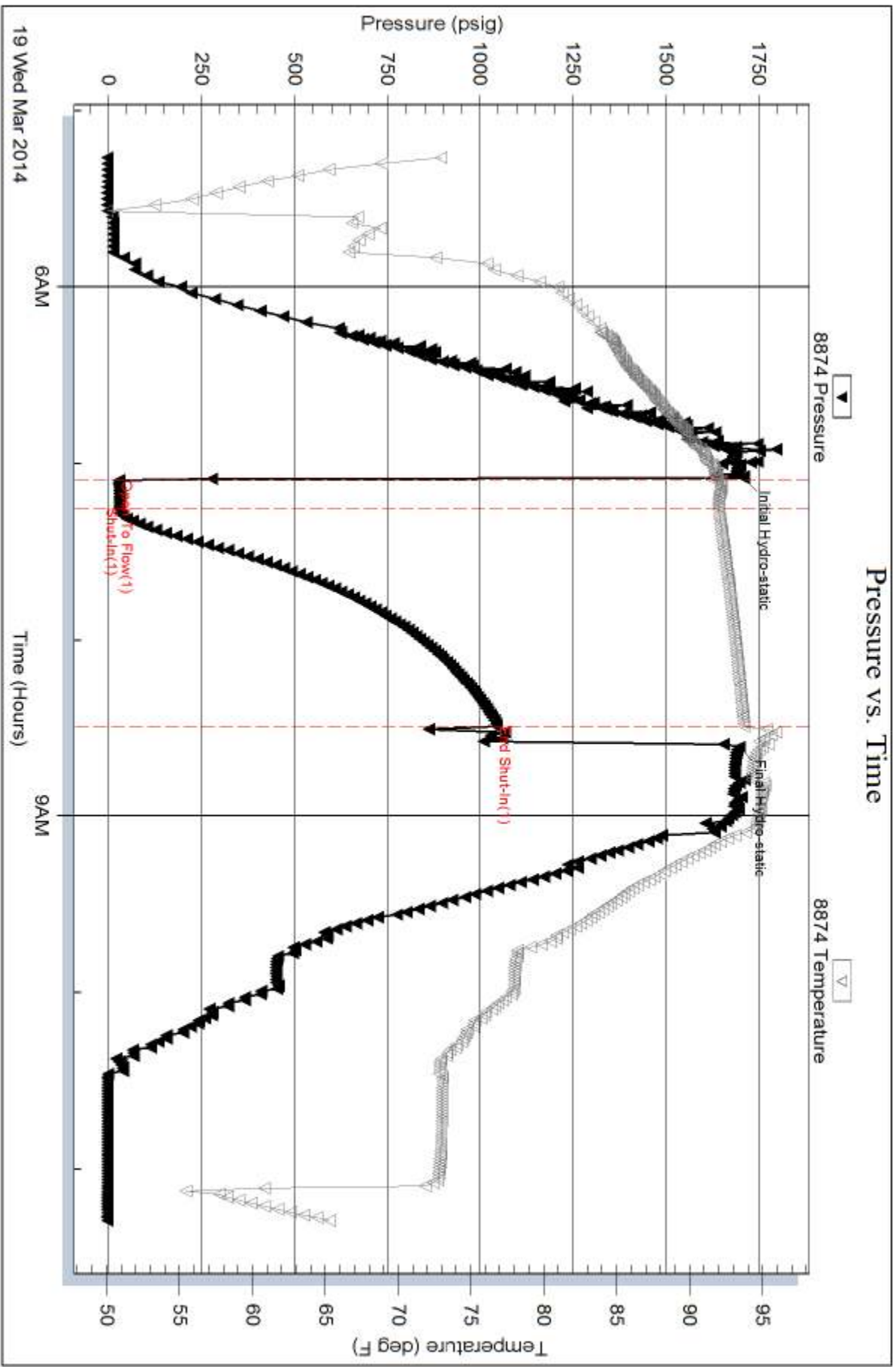
Serial #: 8874

Inside

Sam Gary, Jr. & Associates, Inc.

Hager Trust #2-11

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56962

Printed: 2014.03.19 @ 11:59:16

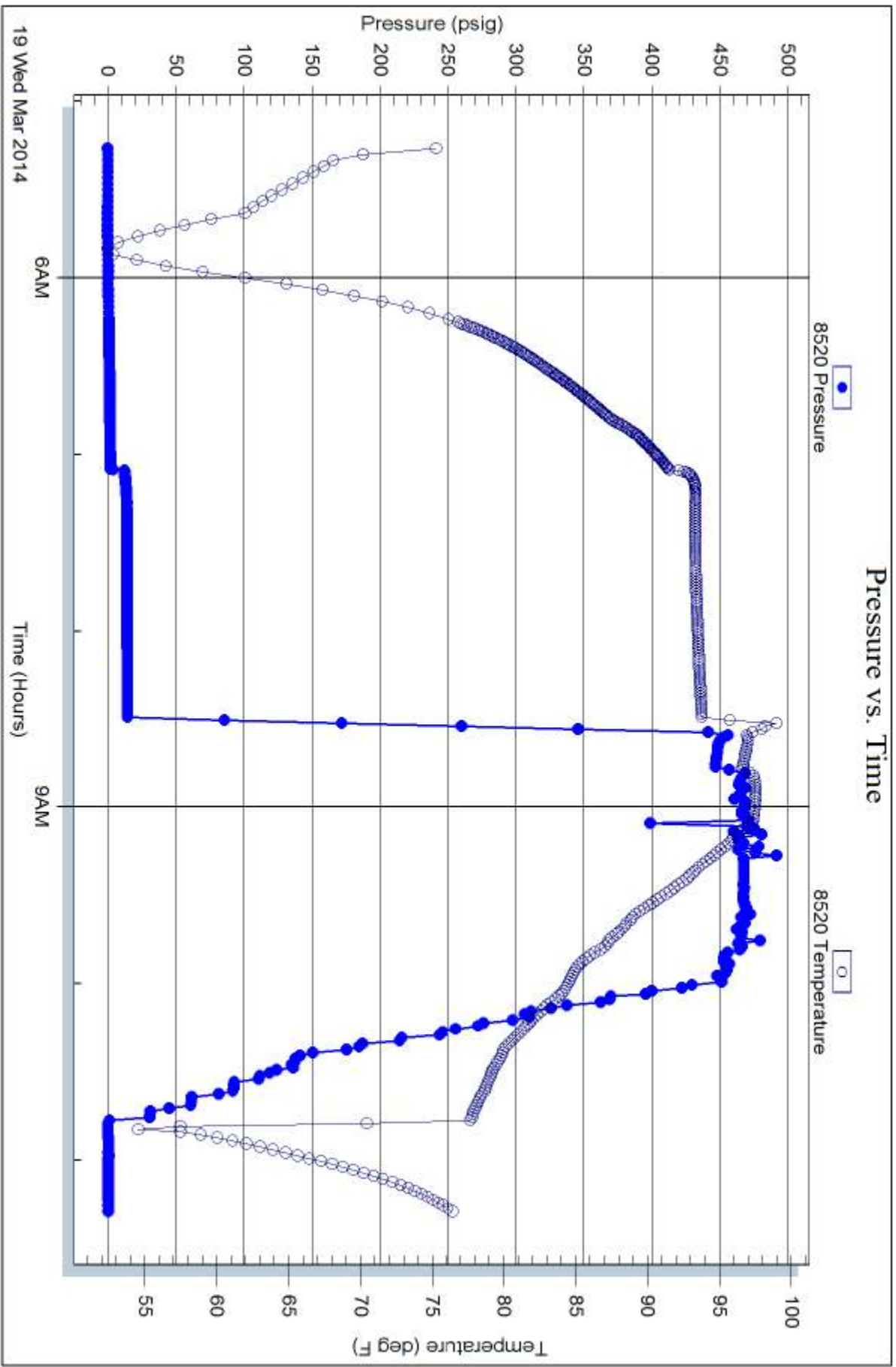
Serial #: 8520

Fluid

Sam Gary Jr. & Associates, Inc.

Hager Trust #2-11

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 56962

Printed: 2014.03.19 @ 11:59:16