



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

7-5S-35W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Fisher #3-7

Job Ticket: 62249

DST#: 1

ATTN: Chris Mitchell

Test Start: 2015.06.04 @ 21:26:00

GENERAL INFORMATION:

Formation: **LKC "J,K,L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:47:30

Time Test Ended: 07:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4330.00 ft (KB) To 4402.00 ft (KB) (TVD)

Reference Elevations: 3256.00 ft (KB)

Total Depth: 4402.00 ft (KB) (TVD)

3251.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 161.32 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.04

End Date:

2015.06.05

Last Calib.:

2015.06.05

Start Time: 21:27:00

End Time:

07:19:00

Time On Btm:

2015.06.05 @ 00:45:00

Time Off Btm:

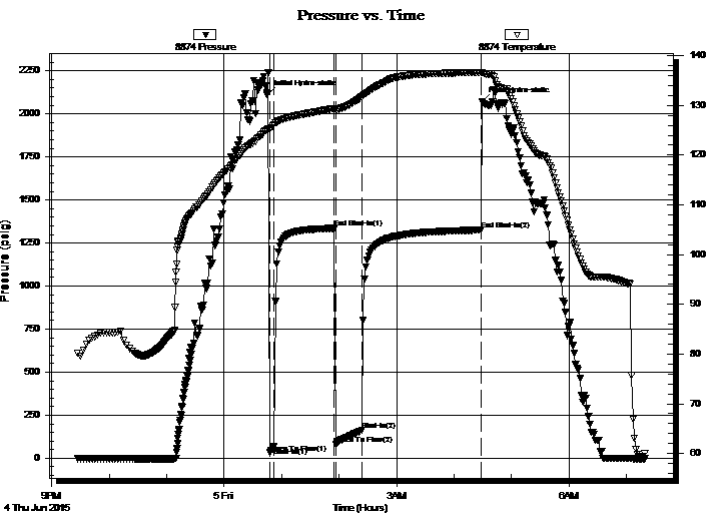
2015.06.05 @ 04:29:30

TEST COMMENT: 5 - IF- 1/2" Blow built to 4 1/2"

60 - IS- No Return

30 - FF- BoB in 22 min

120 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.30	125.20	Initial Hydro-static
3	31.67	125.15	Open To Flow (1)
7	65.75	126.10	Shut-In(1)
70	1335.61	129.42	End Shut-In(1)
72	79.14	129.14	Open To Flow (2)
99	161.32	131.63	Shut-In(2)
223	1325.77	136.64	End Shut-In(2)
225	2068.70	136.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
53.00	MW 20M 80W	0.26
116.00	MW 10M 90W	0.57
63.00	MW 20M 80W	0.87
103.00	MW 50M 50W	1.44

Gas Rates

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



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FLUID SUMMARY

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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:

40000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud (heavy) 100M	0.025
53.00	MW 20M 80W	0.261
116.00	MW 10M 90W	0.570
63.00	MW 20M 80W	0.875
103.00	MW 50M 50W	1.445

Total Length: 340.00 ft Total Volume: 3.176 bbl

Num Fluid Samples: 0

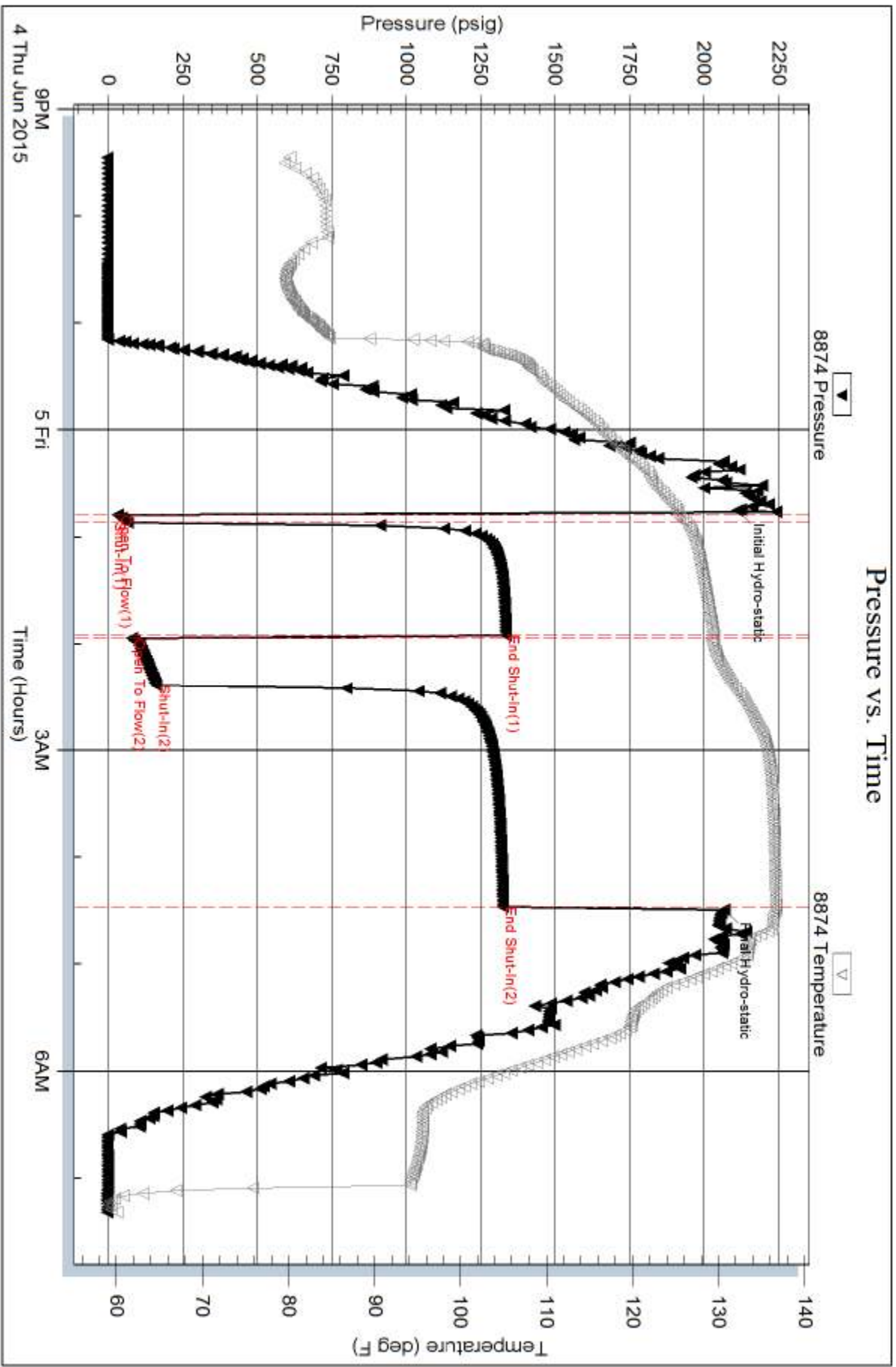
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .23 @ 65 deg = 40,000ppm



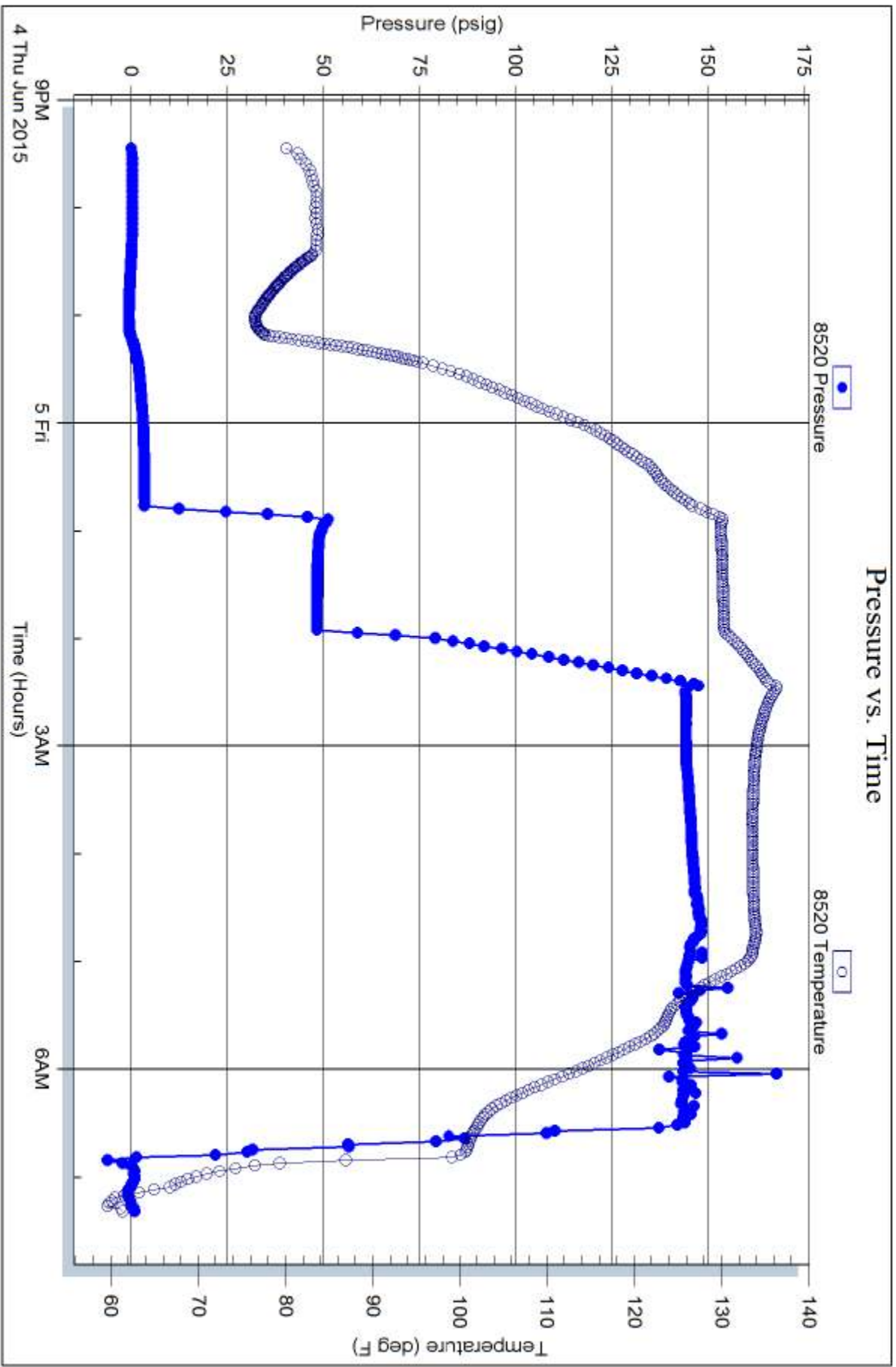
Serial #: 8520

Fluid

Samuel Gary Jr. & Associates, Inc.

Fisher #3-7

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 62249

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