



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53435

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.21 @ 14:53:00

GENERAL INFORMATION:

Formation: **Lansing / Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:22:30

Time Test Ended: 22:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3974.00 ft (KB) To 4040.00 ft (KB) (TVD)

Total Depth: 4040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3015.00 ft (KB)

3008.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8874 Inside

Press @ Run Depth: 156.40 psig @ 3975.00 ft (KB)

Start Date: 2015.06.21

End Date: 2015.06.21

Start Time: 14:54:00

End Time: 22:31:30

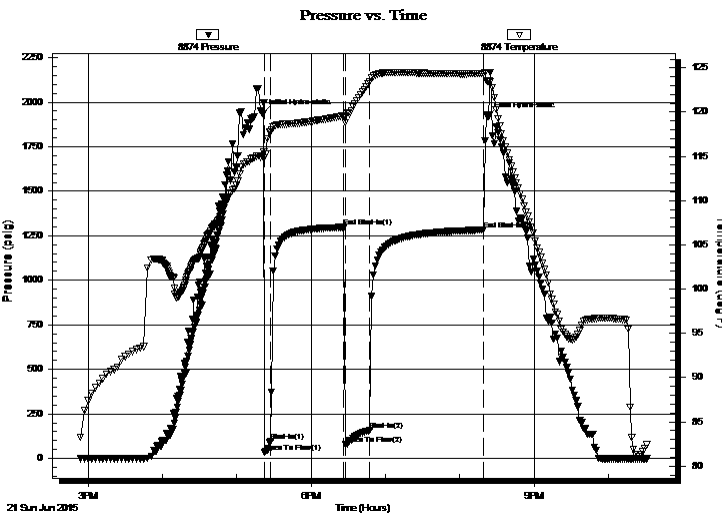
Capacity: 8000.00 psig

Last Calib.: 2015.06.21

Time On Btm: 2015.06.21 @ 17:21:00

Time Off Btm: 2015.06.21 @ 20:22:30

TEST COMMENT: 5 - IF- 3/4" Blow built to 3 1/2"
60 - IS- No Return
20 - FF- Blow started at 1 1/2 Min. Built to 9"
90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.64	115.05	Initial Hydro-static
2	32.82	114.83	Open To Flow (1)
7	97.74	117.82	Shut-In(1)
66	1297.48	119.61	End Shut-In(1)
67	79.39	118.80	Open To Flow (2)
87	156.40	123.42	Shut-In(2)
178	1283.26	124.33	End Shut-In(2)
182	1918.14	123.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10M 90W	0.30
60.00	MW 20M 80W	0.30
60.00	OSMW 10M 90W (oil spots)	0.30
50.00	OSM 100M (oil spots)	0.25

Gas Rates

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



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FLUID SUMMARY

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1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53435

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.21 @ 14:53:00

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:

67000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MW 10M 90W	0.295
60.00	MW 20M 80W	0.295
60.00	OSMW 10M 90W (oil spots)	0.295
50.00	OSM 100M (oil spots)	0.246

Total Length: 230.00 ft

Total Volume: 1.131 bbl

Num Fluid Samples: 0

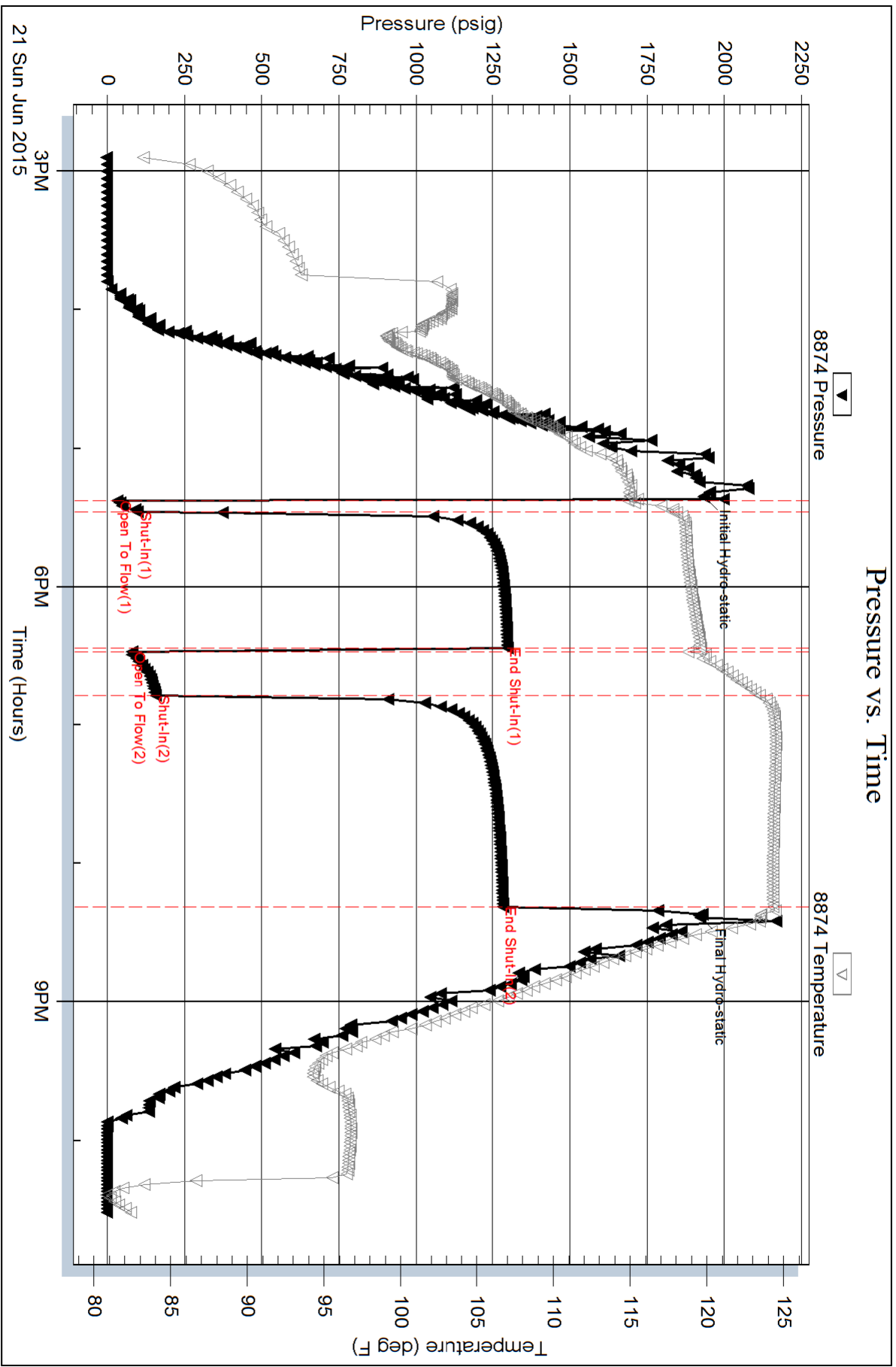
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09 @ 88 = 67000ppm

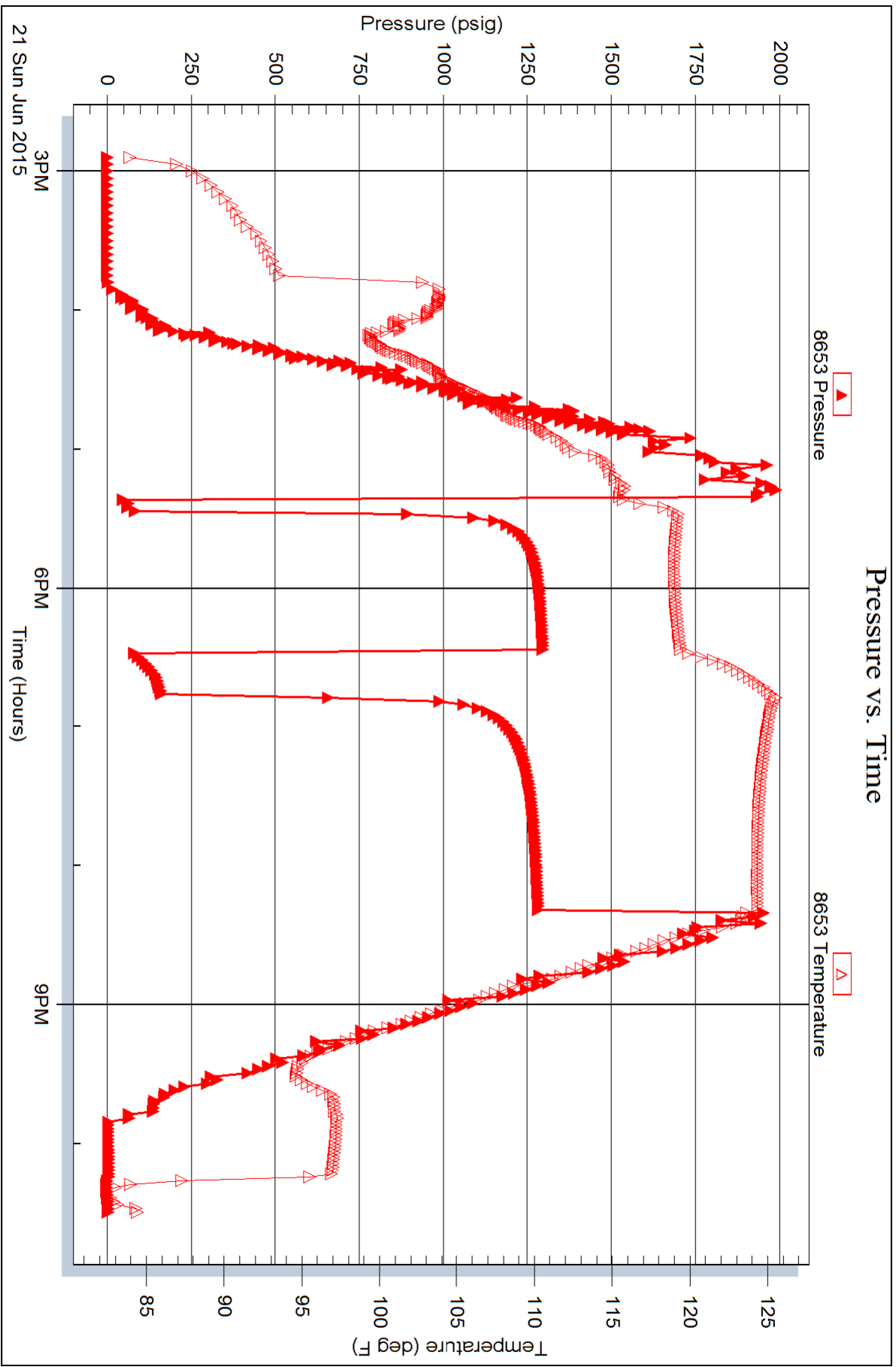


Serial #: 8653

Outside Samuel Gary Jr. & Associates, Inc.

Olson Trust #1-19

DST Test Number: 1



Serial #: 8520

Fluid

Samuel Gary Jr. & Associates, Inc.

Olson Trust #1-19

DST Test Number: 1

