



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc

20=15s=35w County Logan

1515 WYNKOOP, STE 700
Denver Co, 80202

Crouch 1-20

Job Ticket: 58663

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.01 @ 00:44:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 03:32:30

Time Test Ended: 07:57:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 71

Interval: 4408.00 ft (KB) To 4458.00 ft (KB) (TVD)

Reference Elevations: 3243.00 ft (KB)

Total Depth: 4458.00 ft (KB) (TVD)

3237.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 6.00 ft

Serial #: 8674 Inside

Press@RunDepth: 25.05 psig @ 4409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.01

End Date:

2015.06.01

Last Calib.:

2015.06.01

Start Time: 00:44:05

End Time:

07:57:14

Time On Btm:

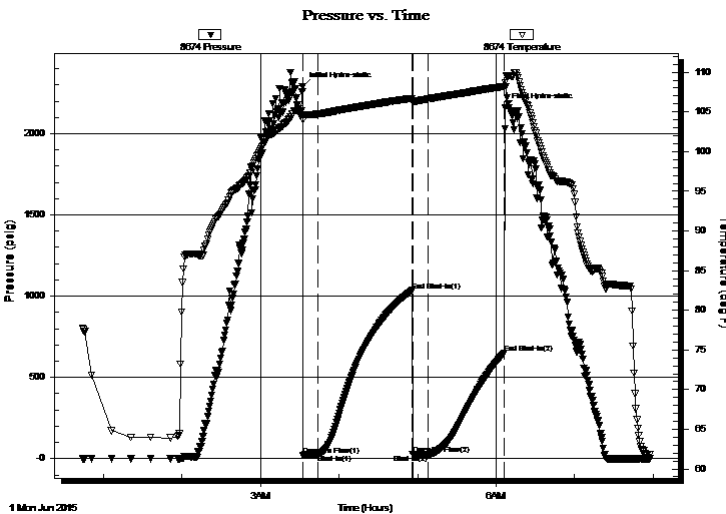
2015.06.01 @ 03:32:00

Time Off Btm:

2015.06.01 @ 06:06:45

TEST COMMENT: 10: Weak surface blow.
75: No Return.
10: No Blow.
60: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.07	105.16	Initial Hydro-static
1	22.62	104.05	Open To Flow (1)
12	24.21	104.74	Shut-In(1)
84	1034.59	106.72	End Shut-In(1)
85	25.74	106.20	Open To Flow (2)
97	25.05	106.64	Shut-In(2)
155	650.05	108.20	End Shut-In(2)
155	2161.81	108.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud oil spots	0.02

Gas Rates

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



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Total Depth: 4458.00 ft (KB) (TVD)

3237.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 6.00 ft

Serial #: 8672 Fluid

Press@RunDepth: psig @ 4376.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.01

End Date:

2015.06.01

Last Calib.:

2015.06.01

Start Time: 00:44:05

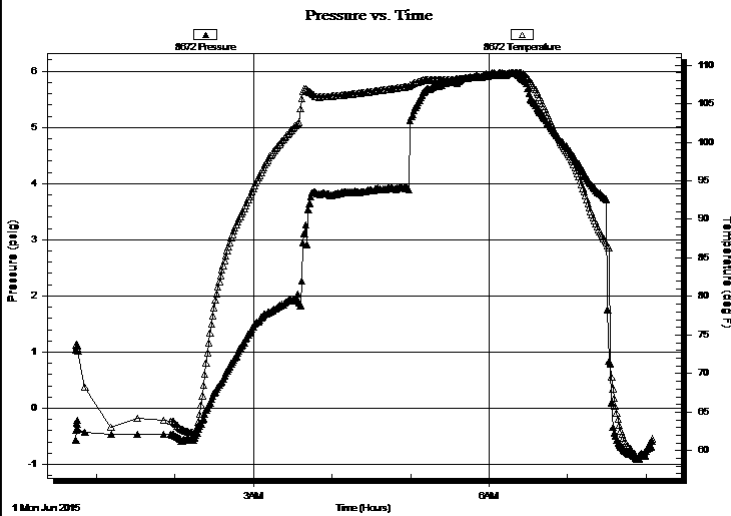
End Time:

08:04:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 10: Weak surface blow .
75: No Return.
10: No Blow .
60: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud oil spots	0.02

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates, Inc

20=15s=35w County Logan

1515 WYNKOOP, STE 700
Denver Co, 80202

Crouch 1-20

Job Ticket: 58663

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.01 @ 00:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud oil spots	0.025

Total Length: 5.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

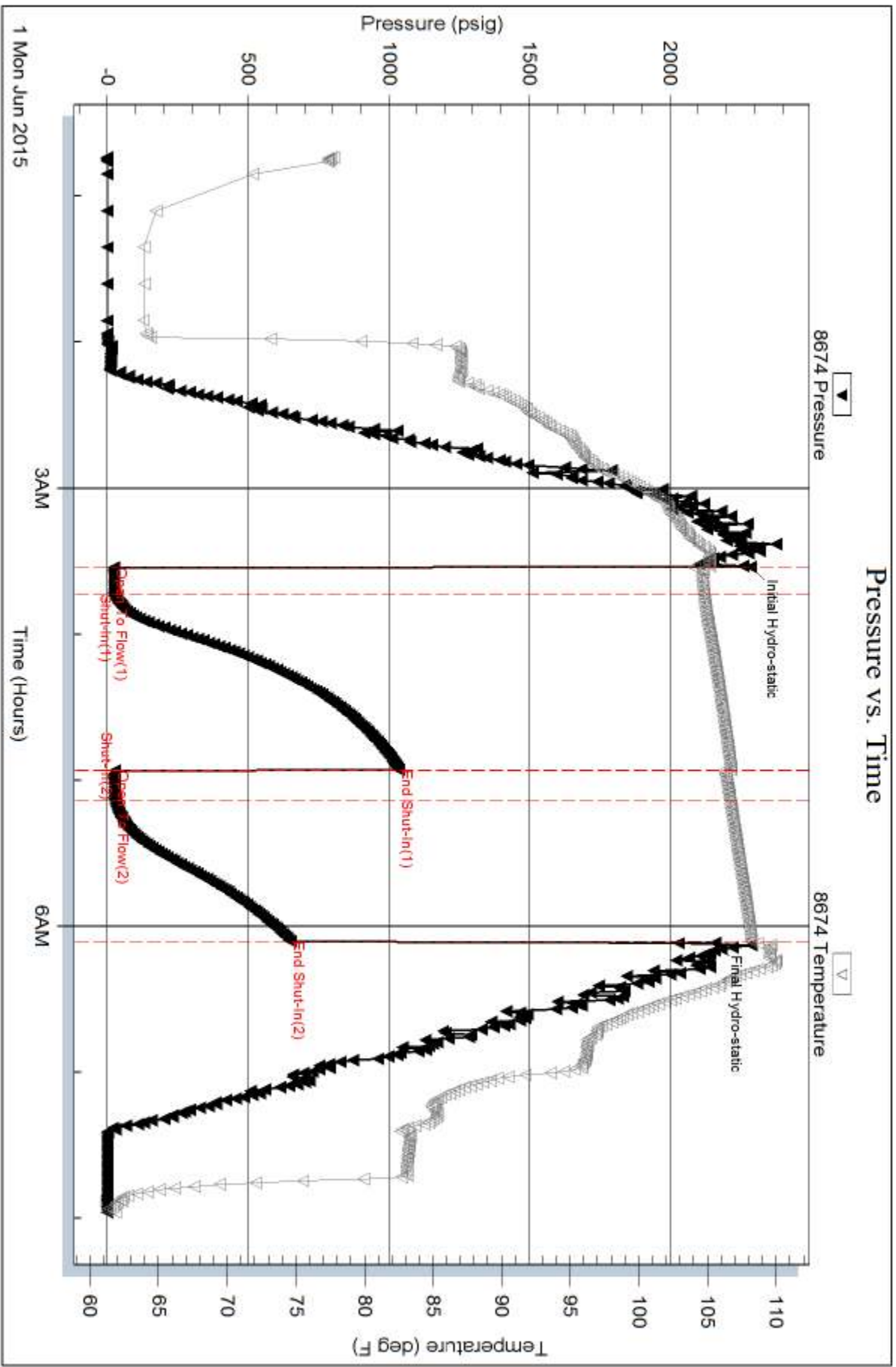
Serial #: 8674

Inside

Samuel Gary Jr & Associates, Inc

Couch 1-20

DST Test Number: 1



Triobrite Testing, Inc

Ref. No: 59663

Printed: 2015.06.01 @ 08:36:44

Serial #: 8672

Fluid

Samuel Gary Jr & Associates, Inc

Crouch 1-20

DST Test Number: 1

