



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass.

35-4s-23w Norton KS

1515 Wynkoop STE 700
Denver CO, 80202

Hager-Sproul 1-35

Job Ticket: 52190

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.05.14 @ 11:52:00

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:24:30

Time Test Ended: 17:59:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3692.00 ft (KB) To 3731.00 ft (KB) (TVD)

Reference Elevations: 2335.00 ft (KB)

Total Depth: 3731.00 ft (KB) (TVD)

2327.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press @ RunDepth: 115.38 psig @ 3727.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.14

End Date:

2013.05.14

Last Calib.:

2013.05.14

Start Time: 12:02:00

End Time:

17:59:00

Time On Btm:

2013.05.14 @ 13:24:00

Time Off Btm:

2013.05.14 @ 15:48:00

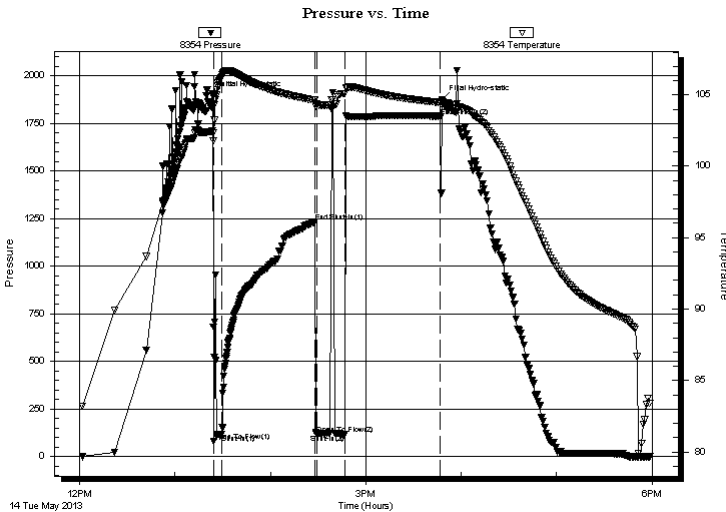
TEST COMMENT: 05 - IF- B.O.B. in 2 Minutes

60 - IS- No return

15 - FF- No blow for 5 Minutes, flushed tool, weak surface blow. Died in 3 Minutes

60 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.78	102.49	Initial Hydro-static
1	80.71	102.34	Open To Flow (1)
6	118.67	106.29	Shut-In(1)
64	1233.28	104.62	End Shut-In(1)
65	118.29	104.37	Open To Flow (2)
83	115.38	105.10	Shut-In(2)
143	1788.20	104.47	End Shut-In(2)
144	1874.23	104.47	Final Hydro-static

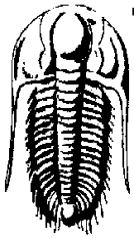
Recovery

Length (ft)	Description	Volume (bbl)
155.00	Mud, 100%M	1.89

* Recovery from multiple tests

Gas Rates

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



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1515 Wynkoop STE 700
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Hager-Sproul 1-35

Job Ticket: 52190

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.05.14 @ 11:52:00

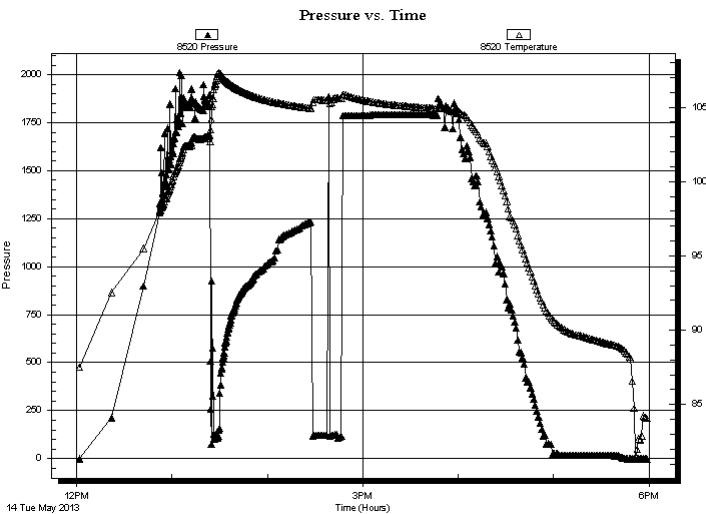
GENERAL INFORMATION:

Formation: **Gorham Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:24:30
 Time Test Ended: 17:59:00
Interval: 3692.00 ft (KB) To 3731.00 ft (KB) (TVD)
 Total Depth: 3731.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 66
 Reference Elevations: 2335.00 ft (KB)
 2327.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8520 **Outside**

Press @ Run Depth: psig @ 3727.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.14 End Date: 2013.05.14 Last Calib.: 2013.05.14
 Start Time: 12:02:00 End Time: 17:58:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 05 - IF- B.O.B. in 2 Minutes
 60 - IS- No return
 15 - FF- No blow for 5 Minutes, flushed tool, weak surface blow . Died in 3 Minutes
 60 - FS- No return



PRESSURE SUMMARY

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

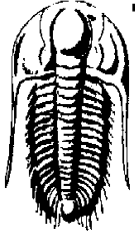
Recovery

Length (ft)	Description	Volume (bbl)
155.00	Mud, 100%M	1.89

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass.
 1515 Wynkoop STE 700
 Denver CO, 80202
 ATTN: Clayton Camozzi

35-4s-23w Norton KS
Hager-Sproul 1-35
 Job Ticket: 52190 **DST#: 2**
 Test Start: 2013.05.14 @ 11:52:00

GENERAL INFORMATION:

Formation: Gorham Sand
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:24:30 **Tester:** Cody Bloedorn
Time Test Ended: 17:59:00 **Unit No:** 66
Interval: 3692.00 ft (KB) To 3731.00 ft (KB) (TVD) **Reference Elevations:** 2335.00 ft (KB)
Total Depth: 3731.00 ft (KB) (TVD) 2327.00 ft (CF)
Hole Diameter: 7.88 inches **Hole Condition:** Fair **KB to GR/CF:** 8.00 ft

Serial #: 8653

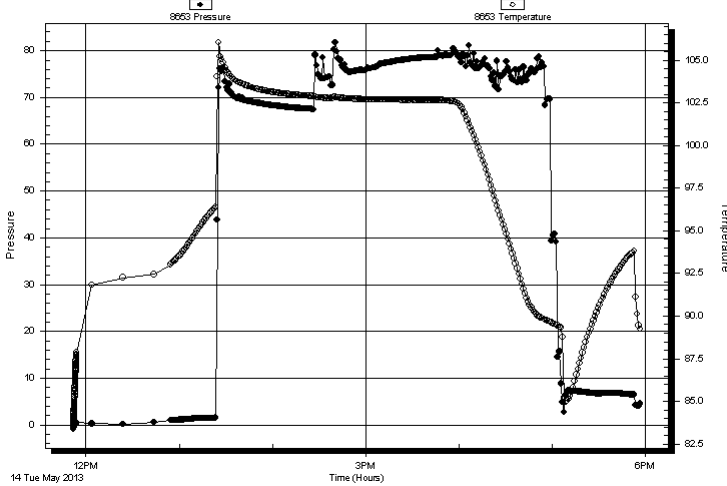
Fluid

Press @ Run Depth: psig @ 3658.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2013.05.14 **End Date:** 2013.05.14 **Last Calib.:** 2013.05.14
Start Time: 11:52:01 **End Time:** 17:57:00 **Time On Btm:**
Time Off Btm:

TEST COMMENT:

05 - IF- B.O.B. in 2 Minutes
 60 - IS- No return
 15 - FF- No blow for 5 Minutes, flushed tool, weak surface blow . Died in 3 Minutes
 60 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
155.00	Mud, 100%M	1.89

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass.

35-4s-23w Norton KS

1515 Wynkoop STE 700
Denver CO, 80202

Hager-Sproul 1-35

Job Ticket: 52190

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.05.14 @ 11:52:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	Mud, 100%M	1.892

Total Length: 155.00 ft Total Volume: 1.892 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

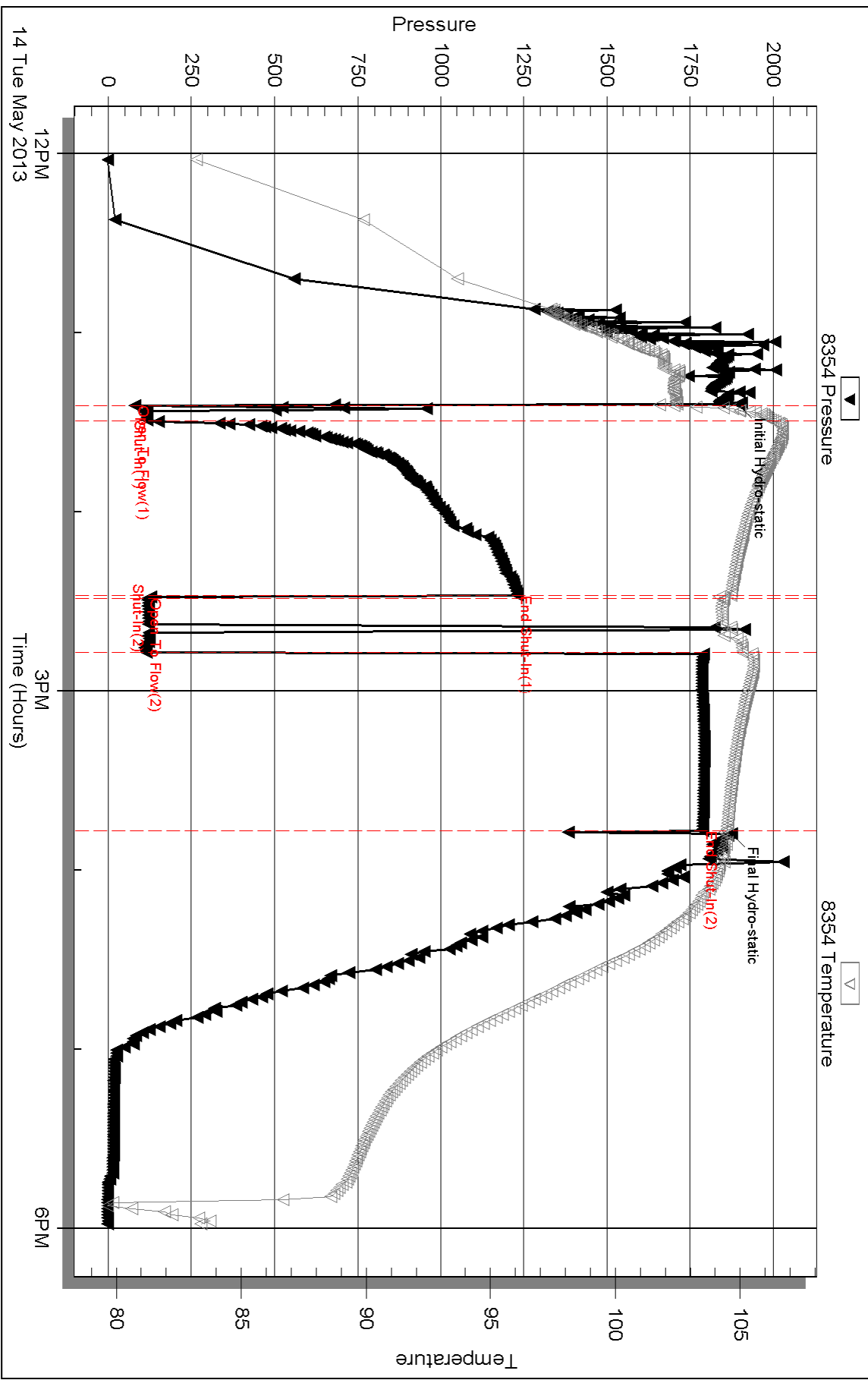
Inside

Samuel Gary Jr. & Ass.

Hager-Sprout 1-35

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52190

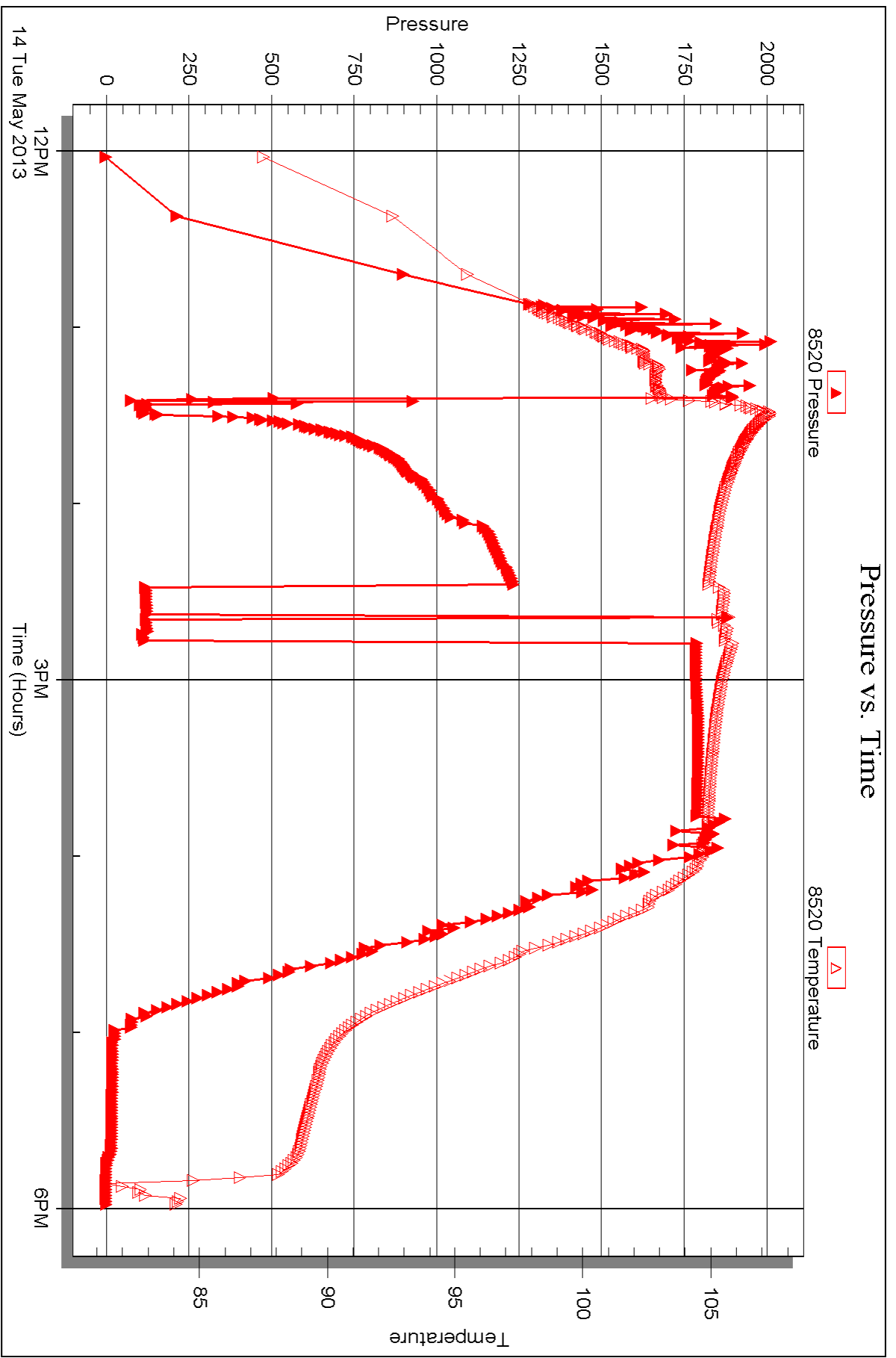
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Serial #: 8520

Outside Samuel Gary Jr. & Ass.

Hager-Sprout 1-35

DST Test Number: 2



Serial #: 8653

Fluid

Samuel Gary Jr. & Ass.

Hager-Sprout 1-35

DST Test Number: 2

