



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop Suite 700
Denver Co.
80202
ATTN: Dan Pritchard

Sec. 2 - 5 s. - 24 w./ Norton

Wagoner #1-2

Job Ticket: 60499 **DST#: 1**
Test Start: 2014.08.26 @ 16:30:00

GENERAL INFORMATION:

Formation: **Toronto - " A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:16:00
 Time Test Ended: 23:54:00
 Interval: **3506.00 ft (KB) To 3552.00 ft (KB) (TVD)**
 Total Depth: 3552.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bob Hamel
 Unit No: 58
 Reference Elevations: 2426.00 ft (KB)
 2418.00 ft (CF)
 KB to GR/CF: 8.00 ft

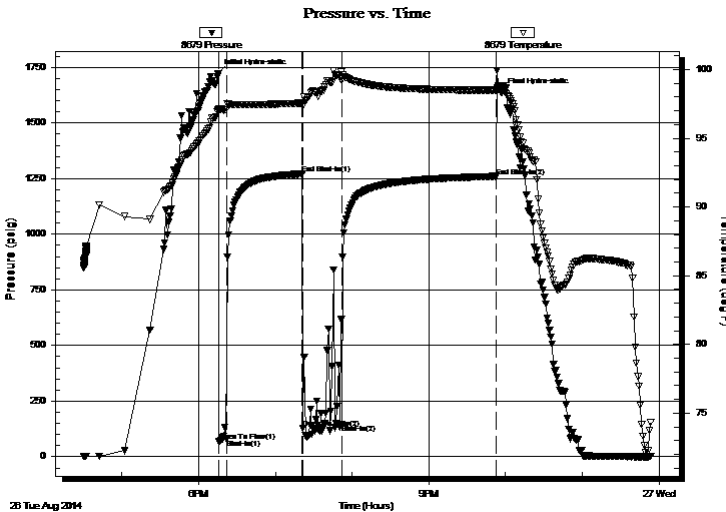
Serial #: 8679

Inside

Press@RunDepth: 147.01 psig @ 3543.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.26 End Date: 2014.08.26 Last Calib.: 2014.08.26
 Start Time: 16:30:01 End Time: 23:54:00 Time On Btm: 2014.08.26 @ 18:15:00
 Time Off Btm: 2014.08.26 @ 21:56:30

TEST COMMENT: I.F. - 5 - 1/2" INT. BLOW BUILT TO (3 1/2" IN 5 MIN.)
 I.S.I. - 60 - NO B.B.
 F.F. - 30 - 1/4" INT. BLOW BUILT TO (8 1/2" IN 30 MIN.)
 F.S.I. - 120 - NO B.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.21	97.07	Initial Hydro-static
1	69.54	97.04	Open To Flow (1)
7	79.28	97.10	Shut-In(1)
66	1271.06	97.57	End Shut-In(1)
67	129.13	97.28	Open To Flow (2)
97	147.01	99.22	Shut-In(2)
218	1260.32	98.50	End Shut-In(2)
222	1636.05	98.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	S,O,S,M 5%O 95%M	1.41
30.00	EMULSIFIED MUDDY OIL	0.42

Gas Rates

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



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FLUID SUMMARY

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Wagoner #1-2

Job Ticket: 60499

DST#: 1

Test Start: 2014.08.26 @ 16:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.00 ohm.m

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	S,O,S,M 5%O 95%M	1.410
30.00	EMULSIFIED MUDDY OIL	0.421

Total Length: 150.00 ft Total Volume: 1.831 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

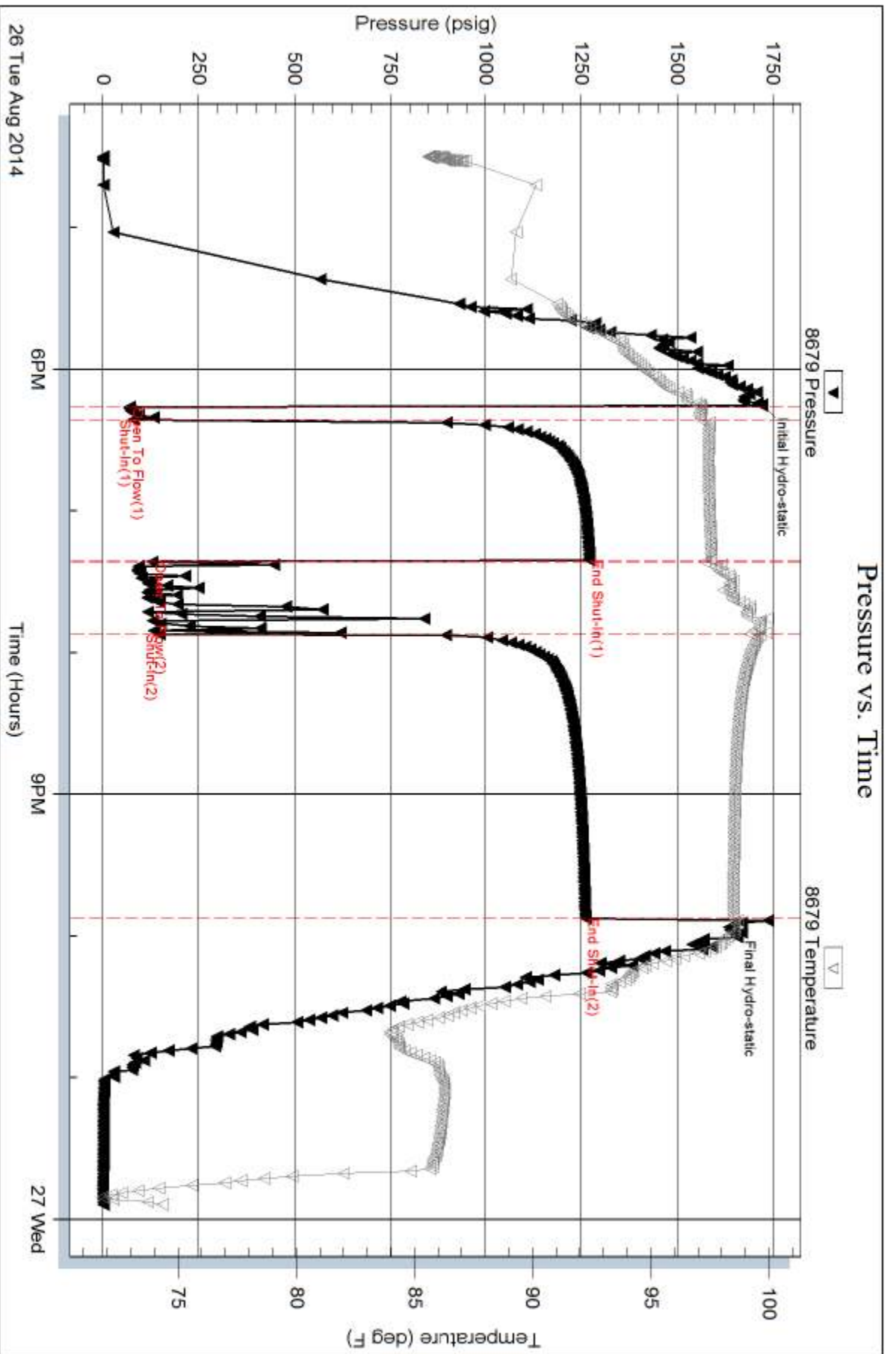
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Recovery

OIL 500 M.L. / MUD 1,500 M.L. / 200 P.S.I.

TOTAL 2,000 M.L.



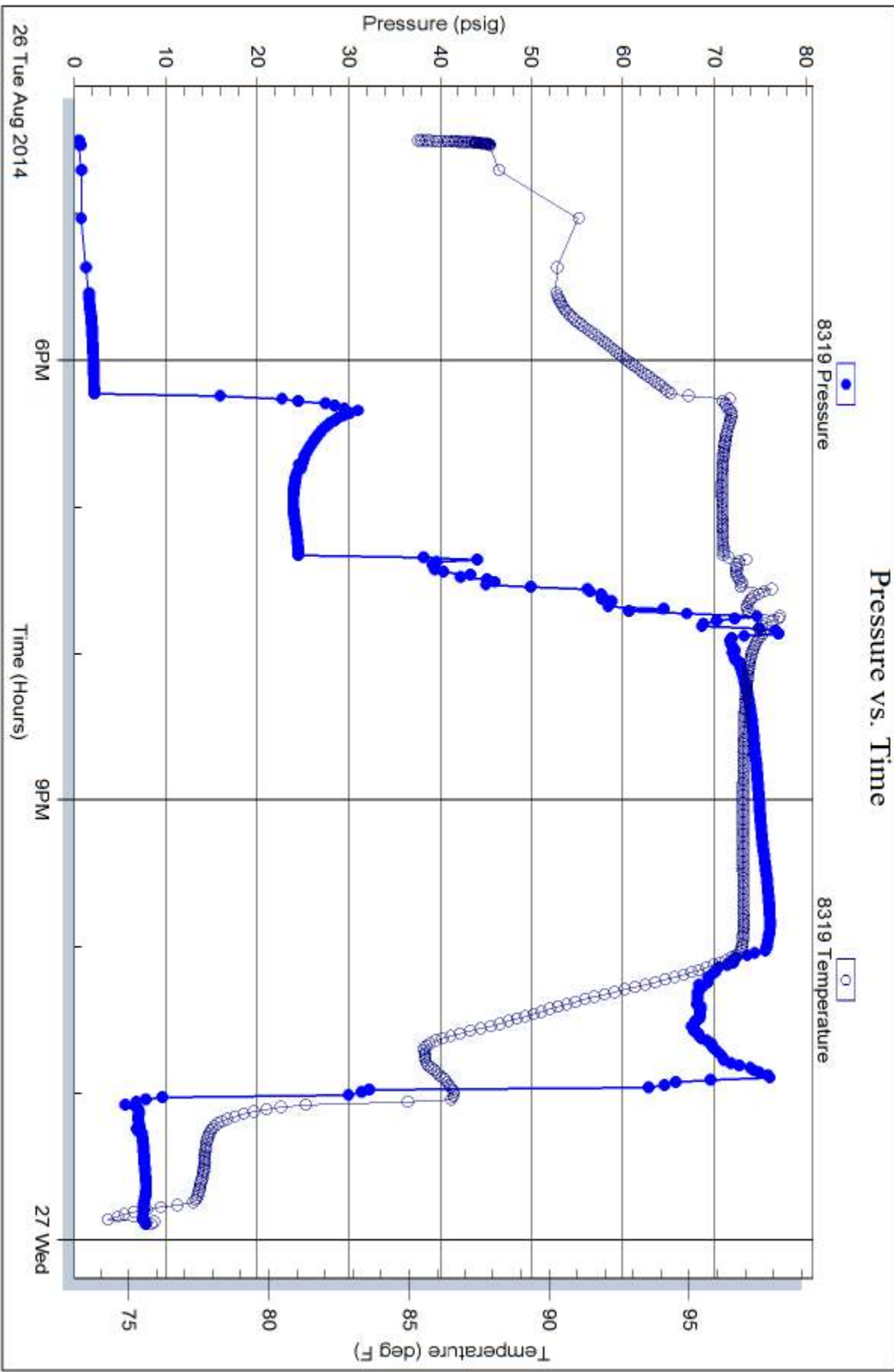
Serial #: 8319

Fluid

Samuel Gary Jr. & Assoc.

Wagoner #1-2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60499

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