



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-9s-16w-Rooks Co

1515 Wynkoop st STE 700
Denver CO 80202

Thomas Casey #1-32

Job Ticket: 57575

DST#: 1

ATTN: Chris Mitchell

Test Start: 2014.05.02 @ 03:10:53

GENERAL INFORMATION:

Formation: **Toronto & Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:32:03

Time Test Ended: 11:35:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 3130.00 ft (KB) To 3191.00 ft (KB) (TVD)

Reference Elevations: 2038.00 ft (KB)

Total Depth: 3191.00 ft (KB) (TVD)

2030.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 83.20 psig @ 3136.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.02

End Date: 2014.05.02

Last Calib.: 2014.05.02

Start Time: 03:10:54

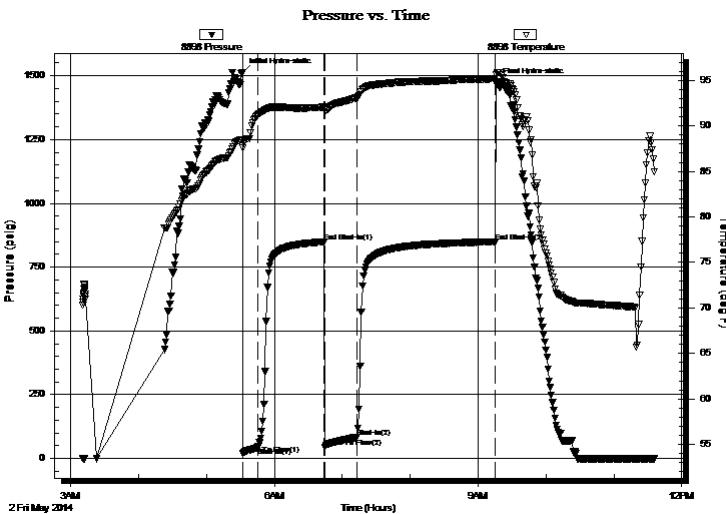
End Time: 11:35:53

Time On Btm: 2014.05.02 @ 05:31:53

Time Off Btm: 2014.05.02 @ 09:15:43

TEST COMMENT: B.O.B. In 8 mins
Weak surface blow
B.O.B. In 2 mins
B.O.B. in 90 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1511.77	88.50	Initial Hydro-static
1	18.06	87.55	Open To Flow (1)
14	43.17	91.16	Shut-In(1)
72	849.16	92.04	End Shut-In(1)
73	44.75	91.86	Open To Flow (2)
101	83.20	93.10	Shut-In(2)
223	849.39	95.17	End Shut-In(2)
224	1474.13	95.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	30%G 70%O	0.56
124.00	20% 20% 60%M	1.74
0.00	645 GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2014.05.02 @ 03:10:53

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	30%G 70%O	0.561
124.00	20% 20% 60%M	1.739
0.00	645 GIP	0.000

Total Length: 164.00 ft Total Volume: 2.300 bbl

Num Fluid Samples: 0

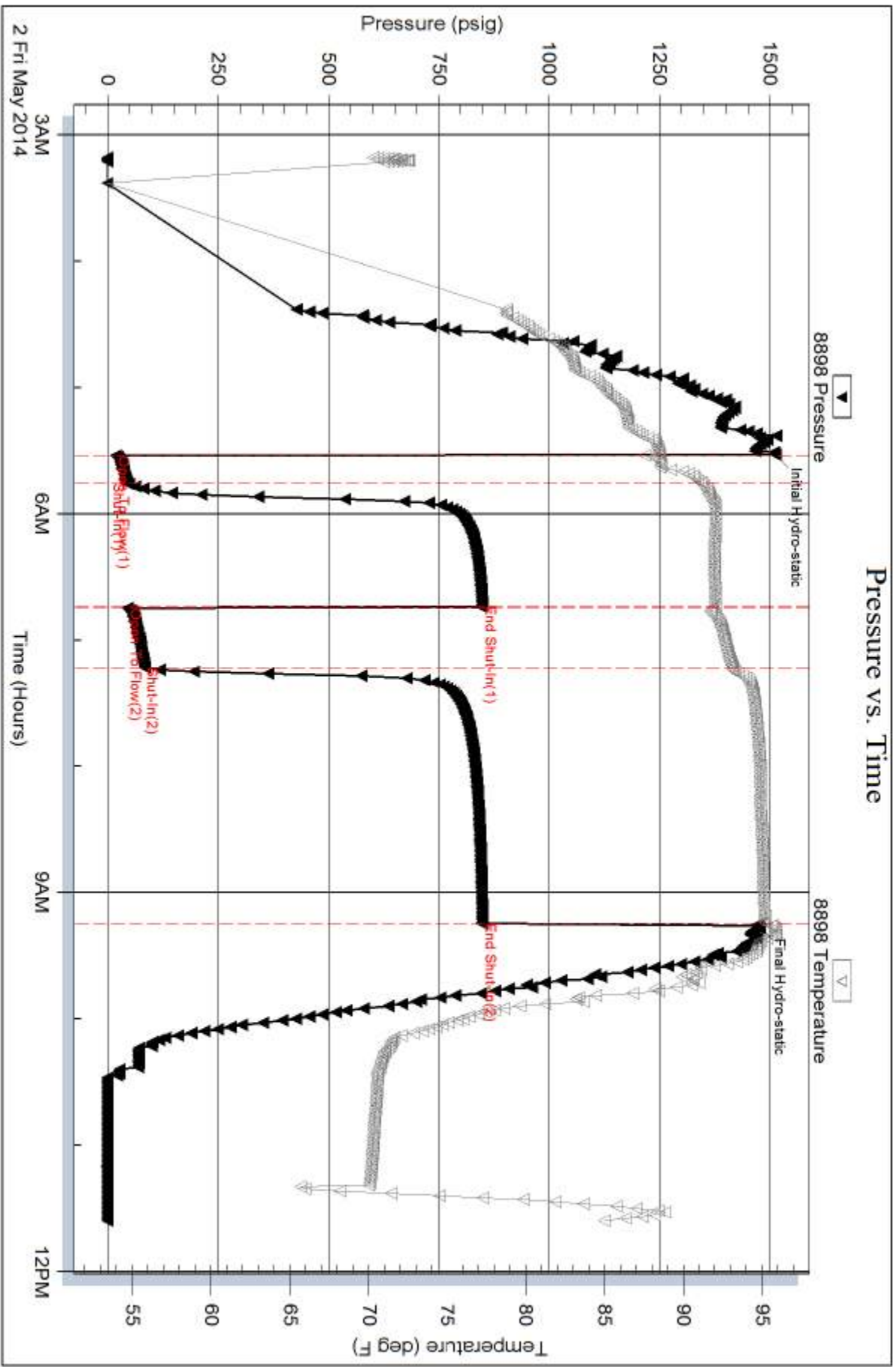
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8354

Fluid

Samuel Gary Jr. & Associates

Thomas Casey #1-32

DST Test Number: 1

