



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

ATTN: Chris Mitchell

Job Ticket: 58926

DST#: 2

Test Start: 2014.05.02 @ 21:23:18

GENERAL INFORMATION:

Formation: **Lansing C&D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:09:38

Time Test Ended: 04:39:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3194.00 ft (KB) To 3244.00 ft (KB) (TVD)

Reference Elevations: 2038.00 ft (KB)

Total Depth: 3244.00 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 @ Run Depth: 17.52 psig @ 3199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.02

End Date:

2014.05.03

Last Calib.:

2014.05.03

Start Time:

21:23:19

End Time:

04:39:08

Time On Btm:

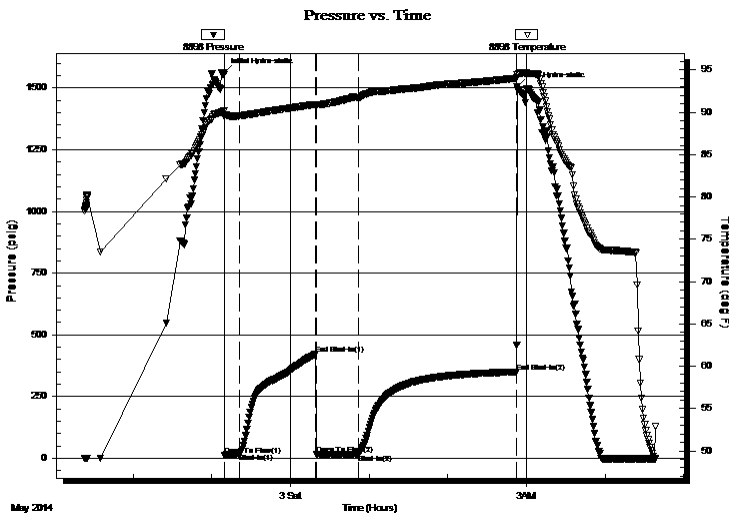
2014.05.02 @ 23:09:28

Time Off Btm:

2014.05.03 @ 02:52:48

TEST COMMENT: 10 min- IF- Weak surface blow built to 1/4 in
60 min- IS- Dead no blow back
30 min- FF- Dead no blow
120 min- FS- Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.20	90.14	Initial Hydro-static
1	13.24	89.48	Open To Flow (1)
12	19.05	89.58	Shut-In(1)
70	422.07	90.94	End Shut-In(1)
71	16.65	90.82	Open To Flow (2)
103	17.52	91.70	Shut-In(2)
223	350.10	94.01	End Shut-In(2)
224	1505.21	94.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M With oil spots	0.07

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 2

ATTN: Chris Mitchell

Test Start: 2014.05.02 @ 21:23:18

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M With oil spots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

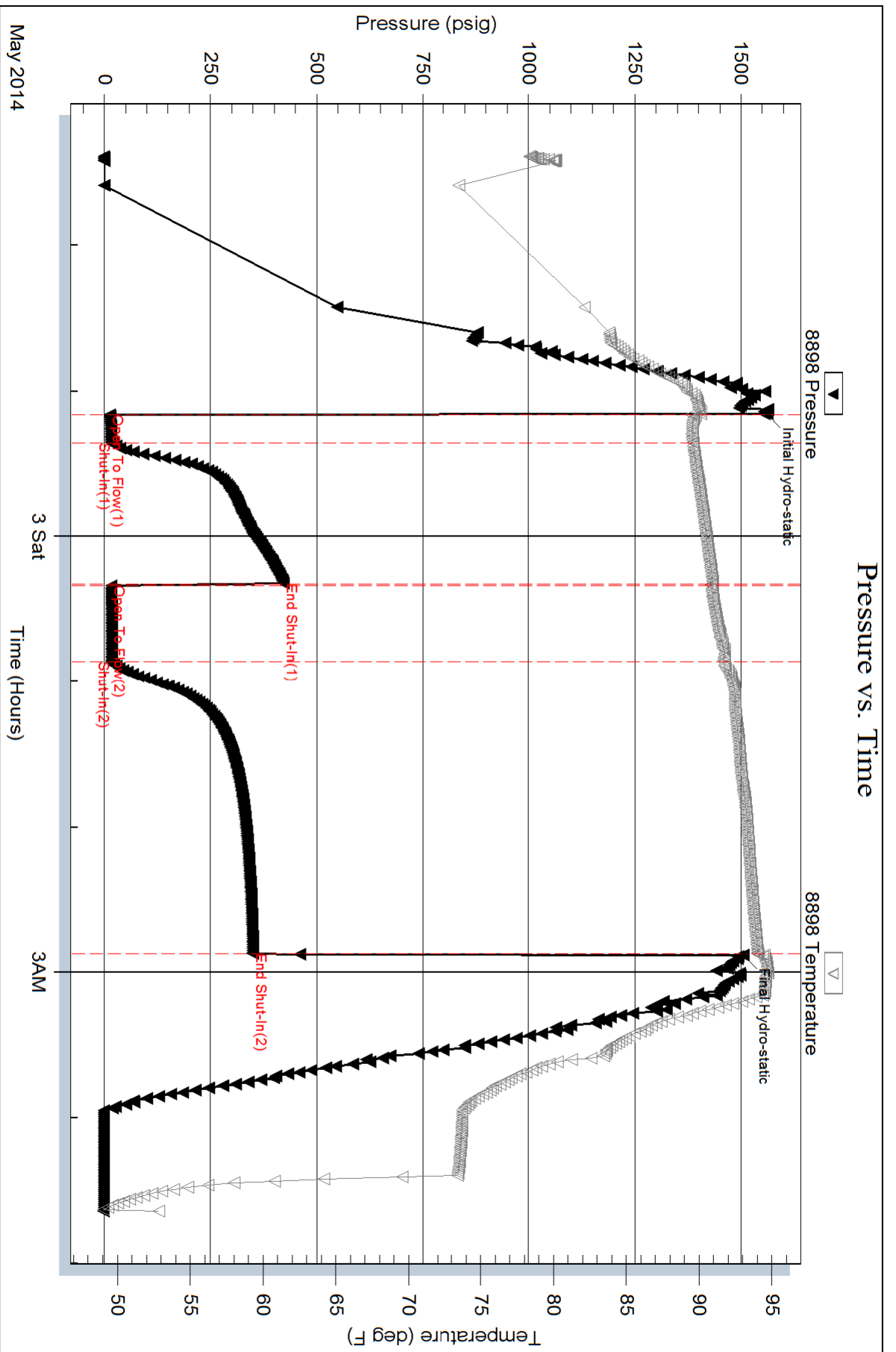
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-

100 PSI

150 ML Mud with oil spots



Serial #: 8354

Fluid

Samuel Gary Jr. & Associates

Thomas Casey #1-32

DST Test Number: 2

