



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

9/19S/27W/Lane

PO Box 48788

Wichita, Kansas

67201+8788

ATTN: Rocky Milford

W & H Unit #1

Job Ticket: 63693

DST#: 2

Test Start: 2017.01.02 @ 10:35:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:22:30

Time Test Ended: 17:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Scott City /74

Interval: 4316.00 ft (KB) To 4353.00 ft (KB) (TVD)

Total Depth: 4353.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2724.00 ft (KB)

2714.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6999 Inside

Press@RunDepth: 40.40 psig @ 4349.00 ft (KB)

Start Date: 2017.01.02

End Date:

2017.01.02

Start Time: 10:35:05

End Time:

17:55:59

Capacity: 8000.00 psig

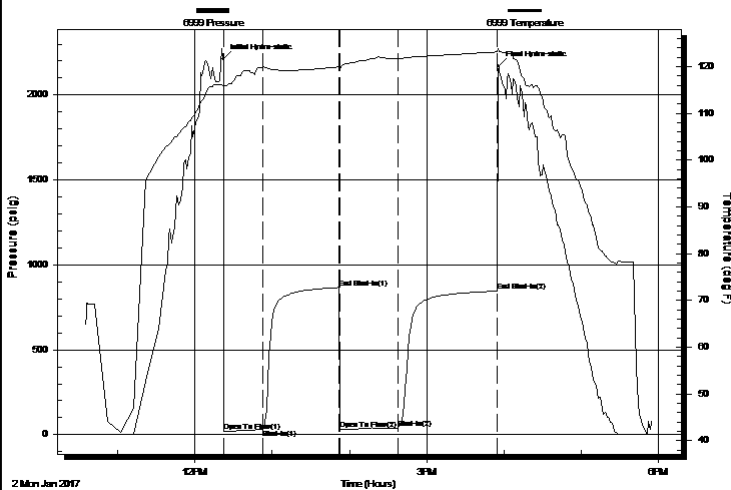
Last Calib.: 2017.01.02

Time On Btm: 2017.01.02 @ 12:22:00

Time Off Btm: 2017.01.02 @ 15:56:00

TEST COMMENT: I.F. 30 minutes/Blow built to 1 3/4 inches
I.S.I. 60 minutes/No blow back
F.F. 45 minutes/Light surge at open then dead
F.S.I. 75 minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.97	115.98	Initial Hydro-static
1	19.15	115.70	Open To Flow (1)
31	29.20	119.90	Shut-In(1)
90	866.38	119.92	End Shut-In(1)
91	34.34	119.73	Open To Flow (2)
136	40.40	121.74	Shut-In(2)
213	845.10	123.11	End Shut-In(2)
214	2172.46	123.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100%	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:22:30

Time Test Ended: 17:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Scott City /74

Interval: **4316.00 ft (KB) To 4353.00 ft (KB) (TVD)**

Reference Elevations: 2724.00 ft (KB)

Total Depth: 4353.00 ft (KB) (TVD)

2714.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8960 Outside

Press@RunDepth: 842.27 psig @ 4350.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.02

End Date:

2017.01.02

Last Calib.:

2017.01.02

Start Time: 10:35:05

End Time:

17:55:29

Time On Btm:

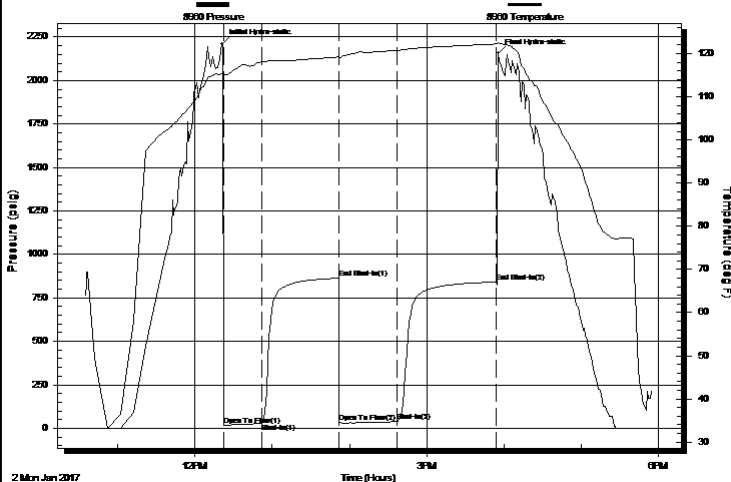
2017.01.02 @ 12:21:30

Time Off Btm:

2017.01.02 @ 15:55:30

TEST COMMENT: I.F. 30 minutes/Blow built to 1 3/4 inches
I.S.I. 60 minutes/No blow back
F.F. 45 minutes/Light surge at open then dead
F.S.I. 75 minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.89	115.40	Initial Hydro-static
1	18.23	115.03	Open To Flow (1)
31	27.15	118.17	Shut-In(1)
90	864.00	119.22	End Shut-In(1)
91	32.26	118.82	Open To Flow (2)
136	37.87	120.72	Shut-In(2)
213	842.27	122.25	End Shut-In(2)
214	2157.00	122.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100%	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC.

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FLUID SUMMARY

Raymond Oil Company Inc.

9/19S/27W/Lane

PO Box 48788

Wichita, Kansas

67201+8788

ATTN: Rocky Milford

W & H Unit #1

Job Ticket: 63693

DST#: 2

Test Start: 2017.01.02 @ 10:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud 100%	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

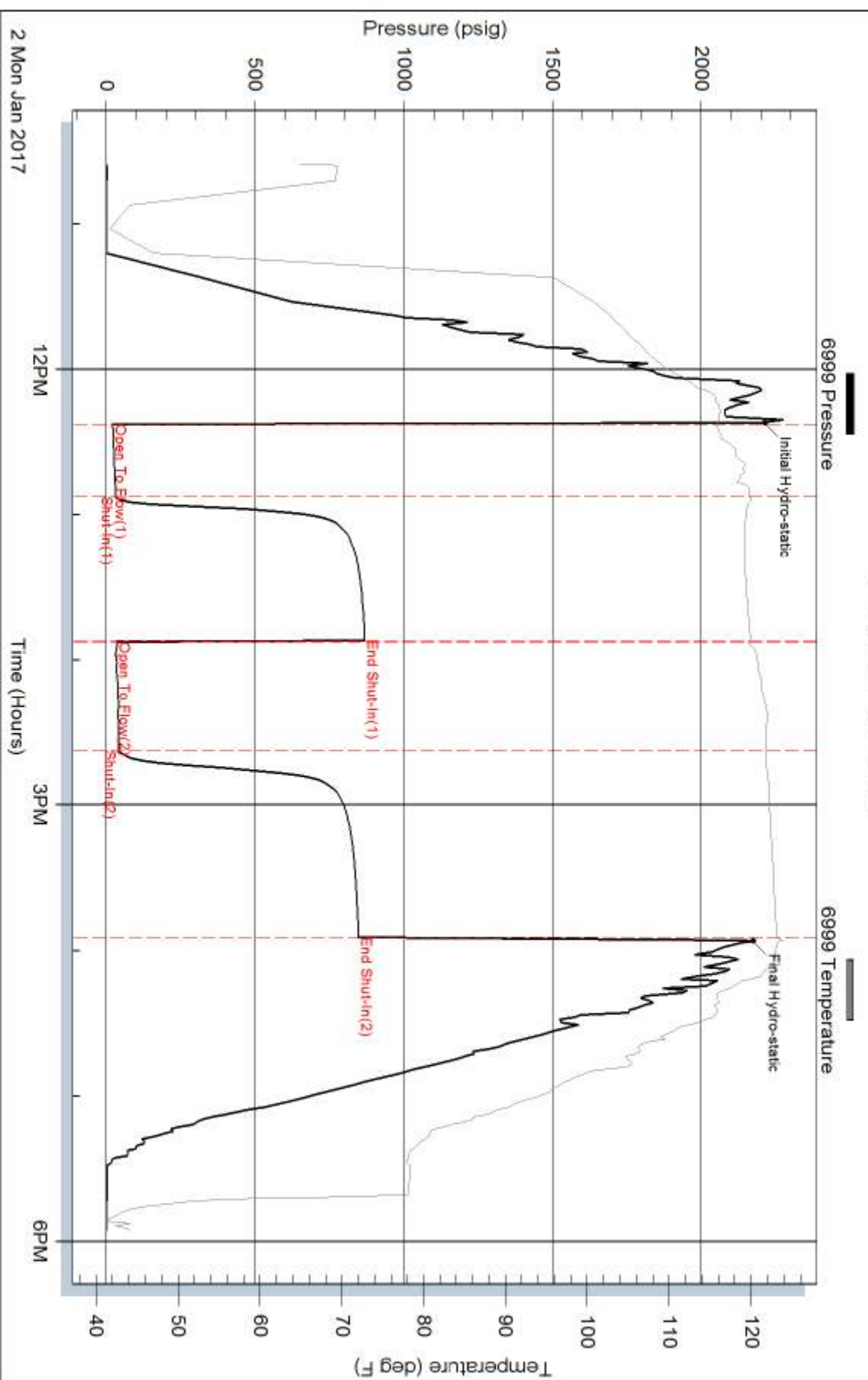
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



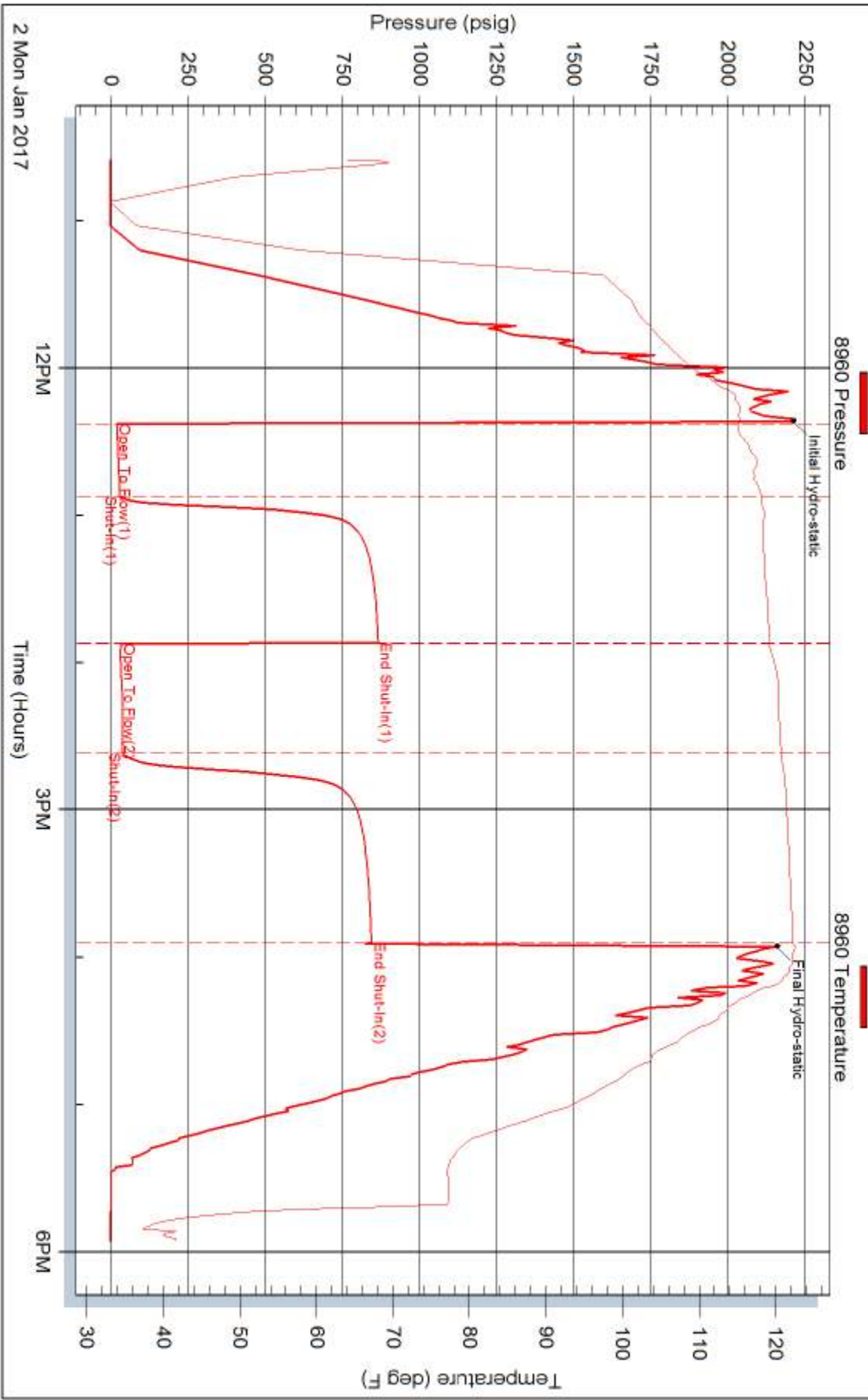
Serial #: 8960

Outside Raymond Oil Company Inc.

W & H Unit #1

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63693

Printed: 2017.01.02 @ 19:35:40