



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: 63692

DST#: 1

Test Start: 2017.01.01 @ 03:55:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:00

Time Test Ended: 11:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Scott City/74

Interval: **4276.00 ft (KB) To 4308.00 ft (KB) (TVD)**

Total Depth: 4308.00 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: 76.00 psig @ 4304.00 ft (KB)

Start Date: 2017.01.01

End Date:

2017.01.01

Start Time: 03:55:05

End Time:

11:39:59

Capacity: 8000.00 psig

Last Calib.: 2017.01.01

Time On Btm: 2017.01.01 @ 05:59:30

Time Off Btm: 2017.01.01 @ 09:32:00

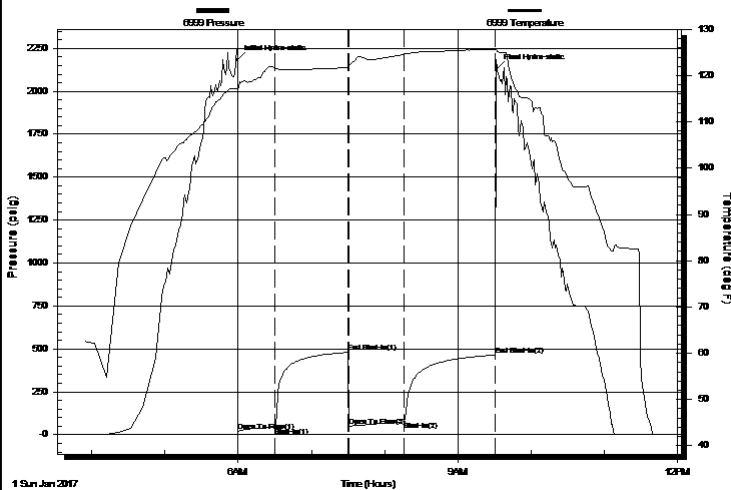
TEST COMMENT: I.F. 30 minutes/Blow built to 1 1/2 inch

I.S.I. 60 minutes/No blow back

F.F. 45 minutes/Dead no blow

F.S.I. 75 minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.94	117.32	Initial Hydro-static
1	21.64	116.84	Open To Flow (1)
31	44.71	121.65	Shut-In(1)
90	479.91	121.73	End Shut-In(1)
91	50.58	122.01	Open To Flow (2)
137	76.00	124.67	Shut-In(2)
211	464.50	125.64	End Shut-In(2)
213	2133.87	125.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Muddy Water with show of oil	0.61
0.00	Mud 50% Water 50%	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Total Depth: 4308.00 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 #: 8960 Outside

Press@RunDepth: 461.85 psig @ 4305.00 ft (KB)

Start Date: 2017.01.01

End Date:

2017.01.01

Start Time: 03:55:05

End Time:

11:39:59

Capacity: 8000.00 psig

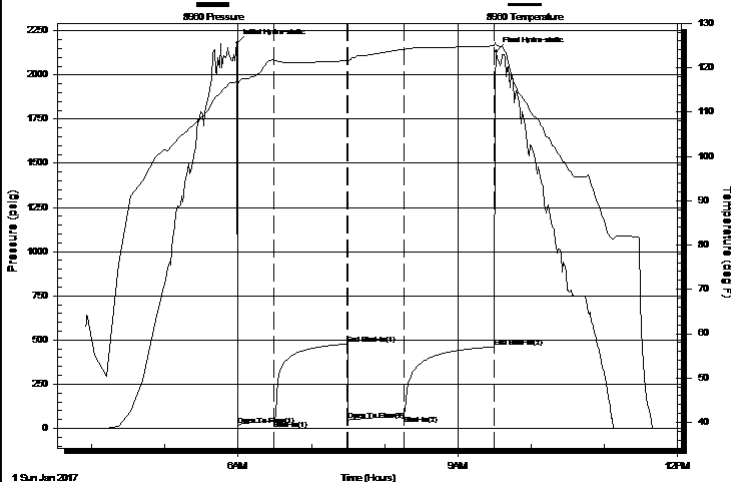
Last Calib.: 2017.01.01

Time On Btm: 2017.01.01 @ 05:59:00

Time Off Btm: 2017.01.01 @ 09:31:30

TEST COMMENT: I.F. 30 minutes/Blow built to 1 1/2 inch
I.S.I. 60 minutes/No blow back
F.F. 45 minutes/Dead no blow
F.S.I. 75 minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.66	116.90	Initial Hydro-static
1	17.61	116.09	Open To Flow (1)
31	43.24	121.65	Shut-In(1)
90	477.54	121.55	End Shut-In(1)
91	48.29	121.45	Open To Flow (2)
137	74.19	124.12	Shut-In(2)
211	461.85	124.89	End Shut-In(2)
213	2132.71	125.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Muddy Water with show of oil	0.61
0.00	Mud 50% Water 50%	0.00

Gas Rates

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

DRILL STEM TEST REPORT

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: 63692

DST#: 1

Test Start: 2017.01.01 @ 03:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 3500.00 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: 21000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Muddy Water with show of oil	0.615
0.00	Mud 50% Water 50%	0.000

Total Length: 125.00 ft Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .438 ohms @ 49 deg

Serial #: 6999

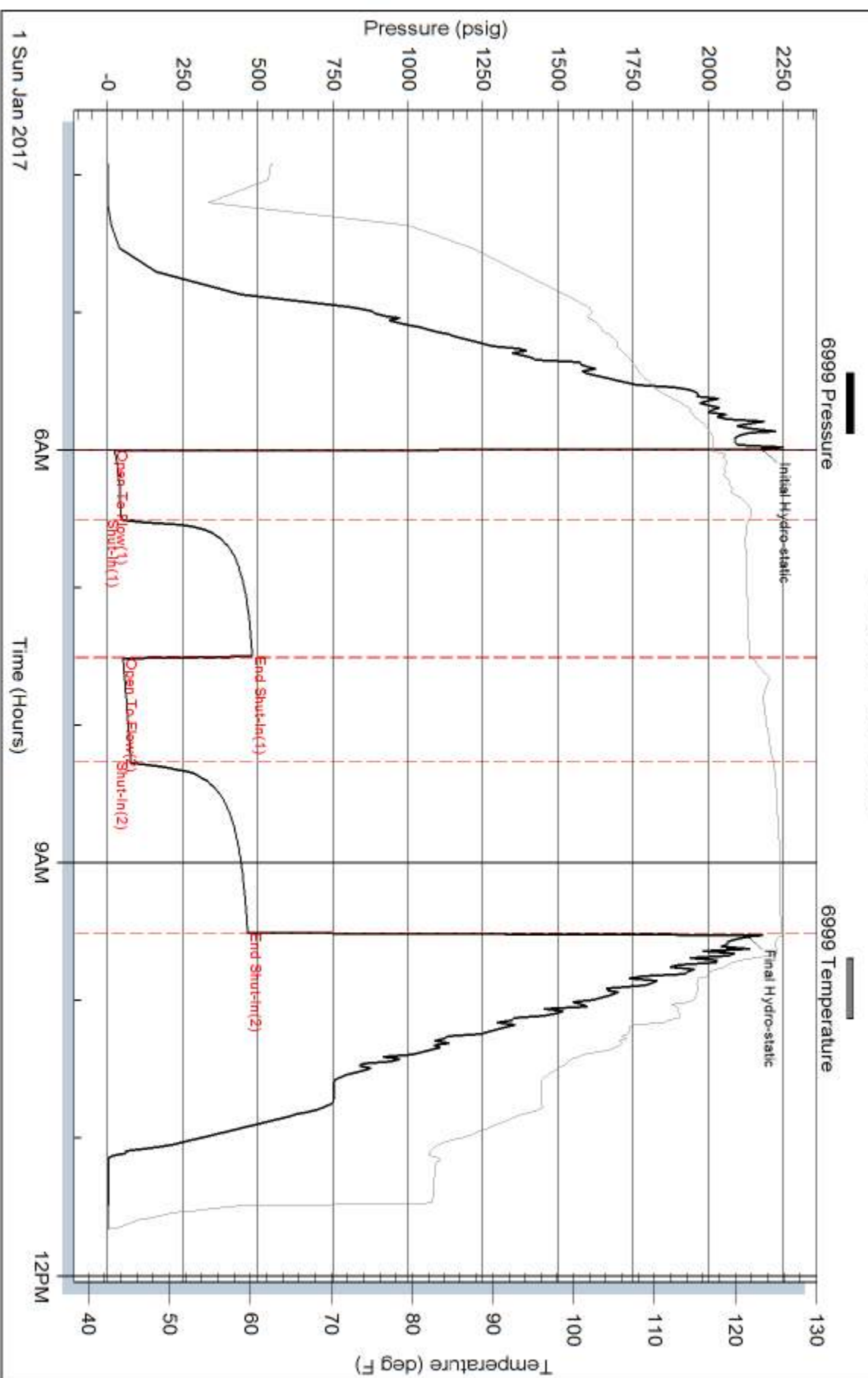
Inside

Raymond Oil Company Inc.

W & H Unit #1

DST Test Number: 1

Pressure vs. Time



Serial #: 8960

Outside Raymond Oil Company Inc.

W & H Unit #1

DST Test Number: 1

