



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: 63694

DST#: 3

Test Start: 2017.01.04 @ 03:03:00

GENERAL INFORMATION:

Formation: **Ft. Scott-Basal Penn**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:08:00

Time Test Ended: 10:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Scott City/74

Interval: **4522.00 ft (KB) To 4636.00 ft (KB) (TVD)**

Total Depth: 4636.00 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: 20.00 psig @ 4631.83 ft (KB)

Start Date: 2017.01.04

End Date:

2017.01.04

Start Time: 03:03:05

End Time:

10:45:59

Capacity: 8000.00 psig

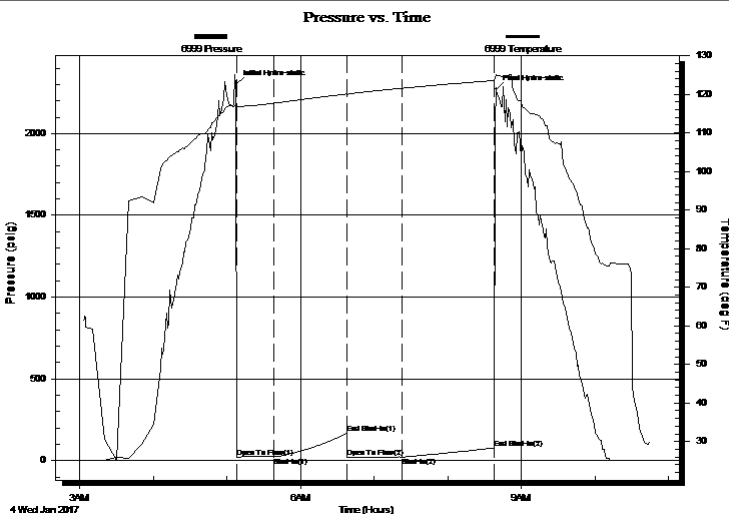
Last Calib.: 2017.01.04

Time On Btm: 2017.01.04 @ 05:07:30

Time Off Btm: 2017.01.04 @ 08:39:30

TEST COMMENT: I.F. 30 Minutes/Blow built to 1 inch then died to 1/2 inch
I.S.I. 60 Minutes/No blow back
F.F. 45 Minutes/Weak surface blow for 1 minute then dead
F.S.I. 75 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.66	116.81	Initial Hydro-static
1	22.05	116.49	Open To Flow (1)
31	22.88	117.69	Shut-In(1)
90	165.78	120.07	End Shut-In(1)
91	17.72	120.04	Open To Flow (2)
135	20.00	121.56	Shut-In(2)
210	76.96	123.55	End Shut-In(2)
212	2269.72	125.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w with show of oil/Mud 100%	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Tester: Ken Swinney

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Total Depth: 4636.00 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: 75.72 psig @ 4632.83 ft (KB)

Start Date: 2017.01.04

End Date:

2017.01.04

Start Time: 03:03:05

End Time:

10:45:29

Capacity: 8000.00 psig

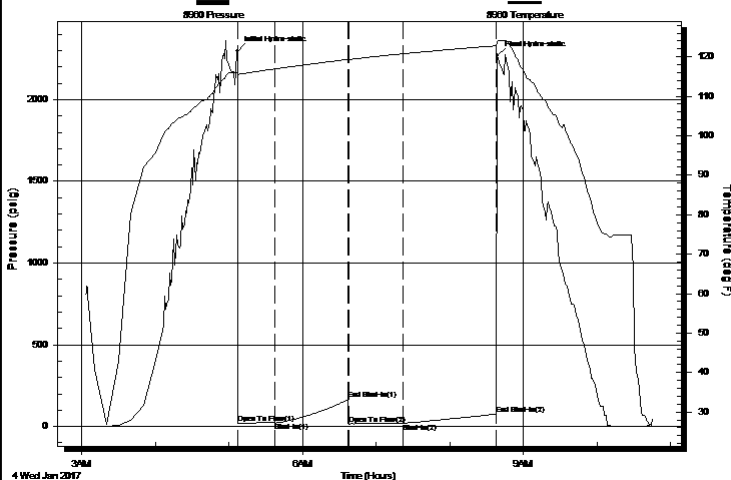
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I.S.I. 60 Minutes/No blow back
F.F. 45 Minutes/Weak surface blow for 1 minute then dead
F.S.I. 75 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.20	116.04	Initial Hydro-static
1	19.82	115.29	Open To Flow (1)
30	22.07	116.93	Shut-In(1)
90	163.50	119.33	End Shut-In(1)
91	15.45	119.24	Open To Flow (2)
135	18.11	120.78	Shut-In(2)
211	75.72	122.79	End Shut-In(2)
212	2267.19	123.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud with show of oil/Mud 100%	0.15

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: 63694

DST#: 3

Test Start: 2017.01.04 @ 03:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 6.40 in³

Resistivity: ohm.m

Salinity: 2500.00 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
30.00	Mud with show of oil/Mud 100%	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6999

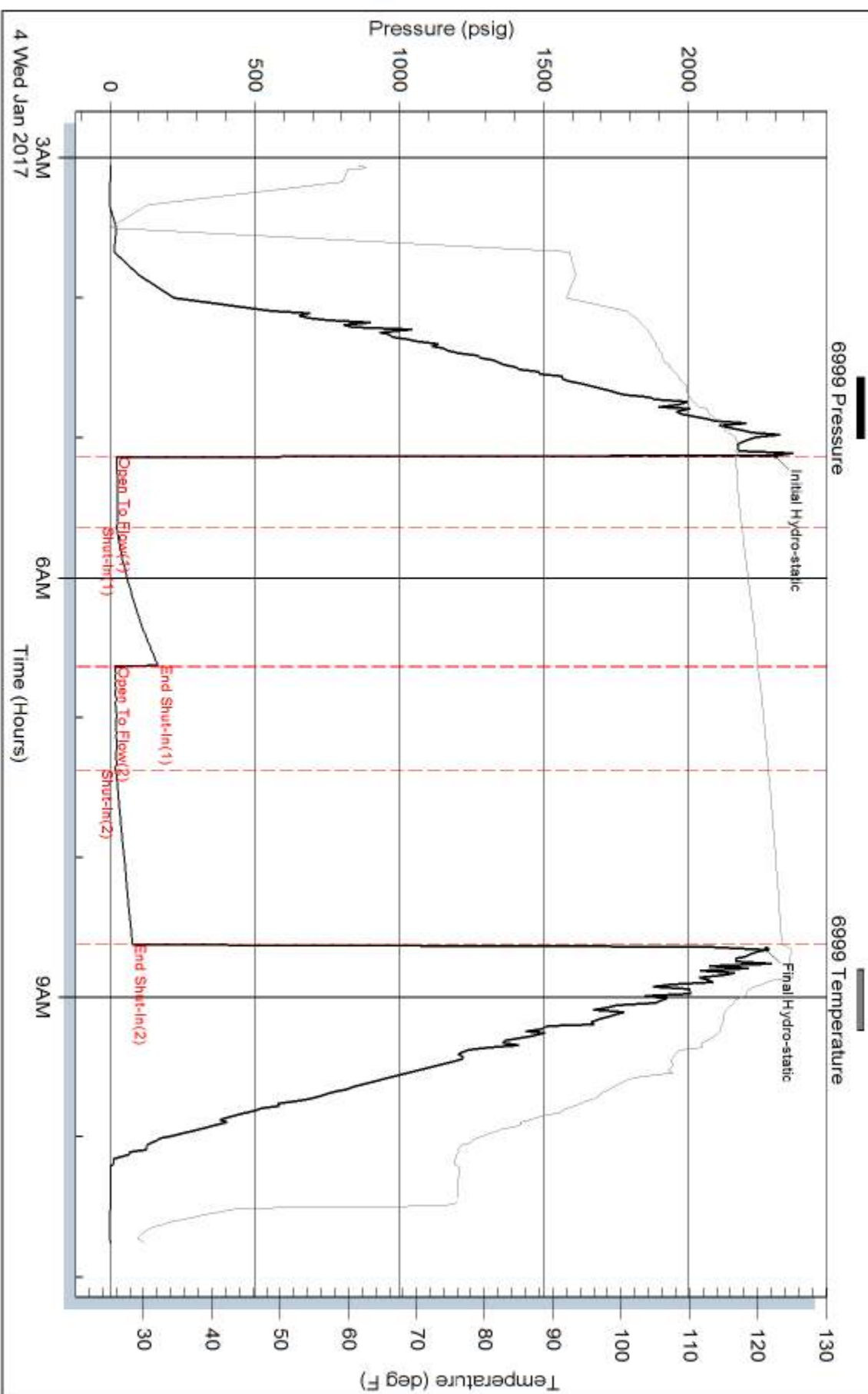
Inside

Raymond Oil Company Inc.

W & H Unit #1

DST Test Number: 3

Pressure vs. Time



Serial #: 8960

Outside Raymond Oil Company Inc.

W & H Unit #1

DST Test Number: 3

Pressure vs. Time

