



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Company
202 West Main Street
Salem IL
62881
ATTN: Tim Priest

24-16-34 Scott Co KS

Koehn 1 24

Job Ticket: 64590

DST#: 4

Test Start: 2016.07.22 @ 23:50:15

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:15

Time Test Ended: 08:09:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4581.00 ft (KB) To 4610.00 ft (KB) (TVD)

Reference Elevations: 3109.00 ft (KB)

Total Depth: 4610.00 ft (KB) (TVD)

3101.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: 44.17 psig @ 4609.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.22

End Date:

2016.07.23

Last Calib.:

2016.07.23

Start Time: 23:50:15

End Time:

08:09:15

Time On Btm:

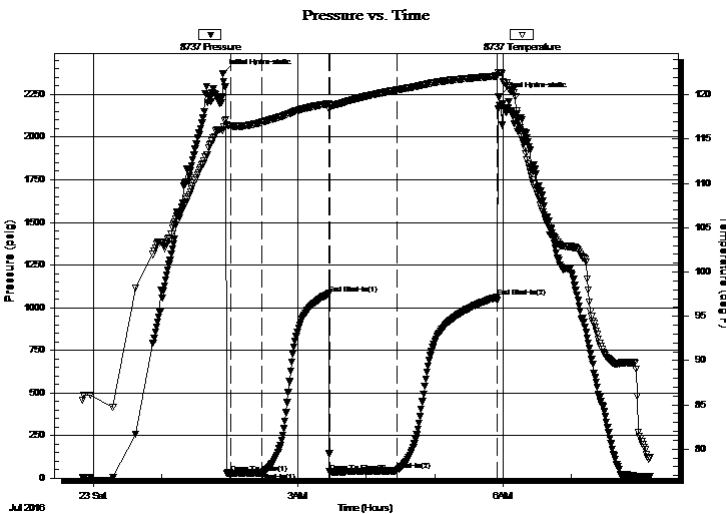
2016.07.23 @ 01:53:45

Time Off Btm:

2016.07.23 @ 05:56:30

TEST COMMENT: IF: Built to 7 1/2" blow
IS: No return blow
FF: Built to 8" blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2374.00	116.08	Initial Hydro-static
7	27.38	116.50	Open To Flow (1)
35	31.81	116.92	Shut-In(1)
94	1081.76	119.03	End Shut-In(1)
94	36.11	118.77	Open To Flow (2)
154	44.17	120.55	Shut-In(2)
242	1062.03	122.13	End Shut-In(2)
243	2234.30	122.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP = 248 ft	0.00
62.00	gcomw 5%g 20%o 30%m 45%w	0.87

Gas Rates

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

* Recovery from multiple tests



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Total Depth: 4610.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3109.00 ft (KB)

3101.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8646

Inside

Press@RunDepth: psig @ 4609.00 ft (KB)

Start Date: 2016.07.22

End Date: 2016.07.23

Start Time: 23:50:15

End Time: 08:09:00

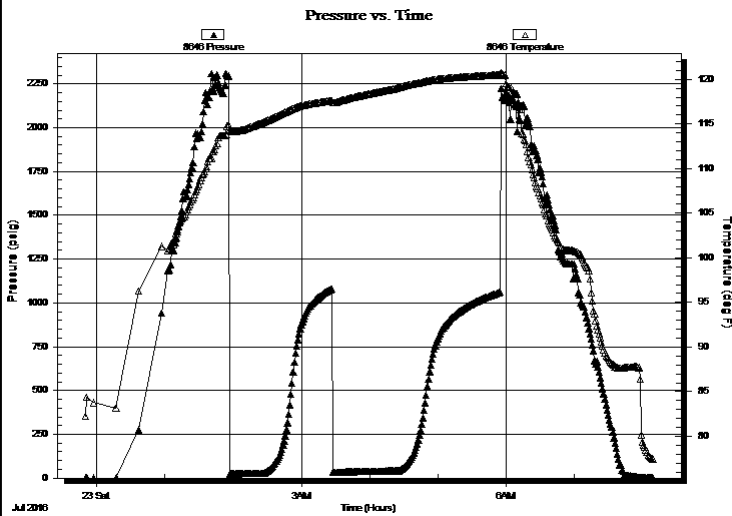
Capacity: 8000.00 psig

Last Calib.: 2016.07.23

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to 7 1/2" blow
IS:No return blow
FF:Built to 8" blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP = 248 ft	0.00
62.00	gcomw 5%g 20%o 30%m 45%w	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

24-16-34 Scott Co KS

202 West Main Street
Salem IL
62881
ATTN: Tim Priest

Koehn 1 24

Job Ticket: 64590

DST#: 4

Test Start: 2016.07.22 @ 23:50:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

21000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP = 248 ft	0.000
62.00	gcomw 5%g 20%o 30%m 45%w	0.870

Total Length: 62.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

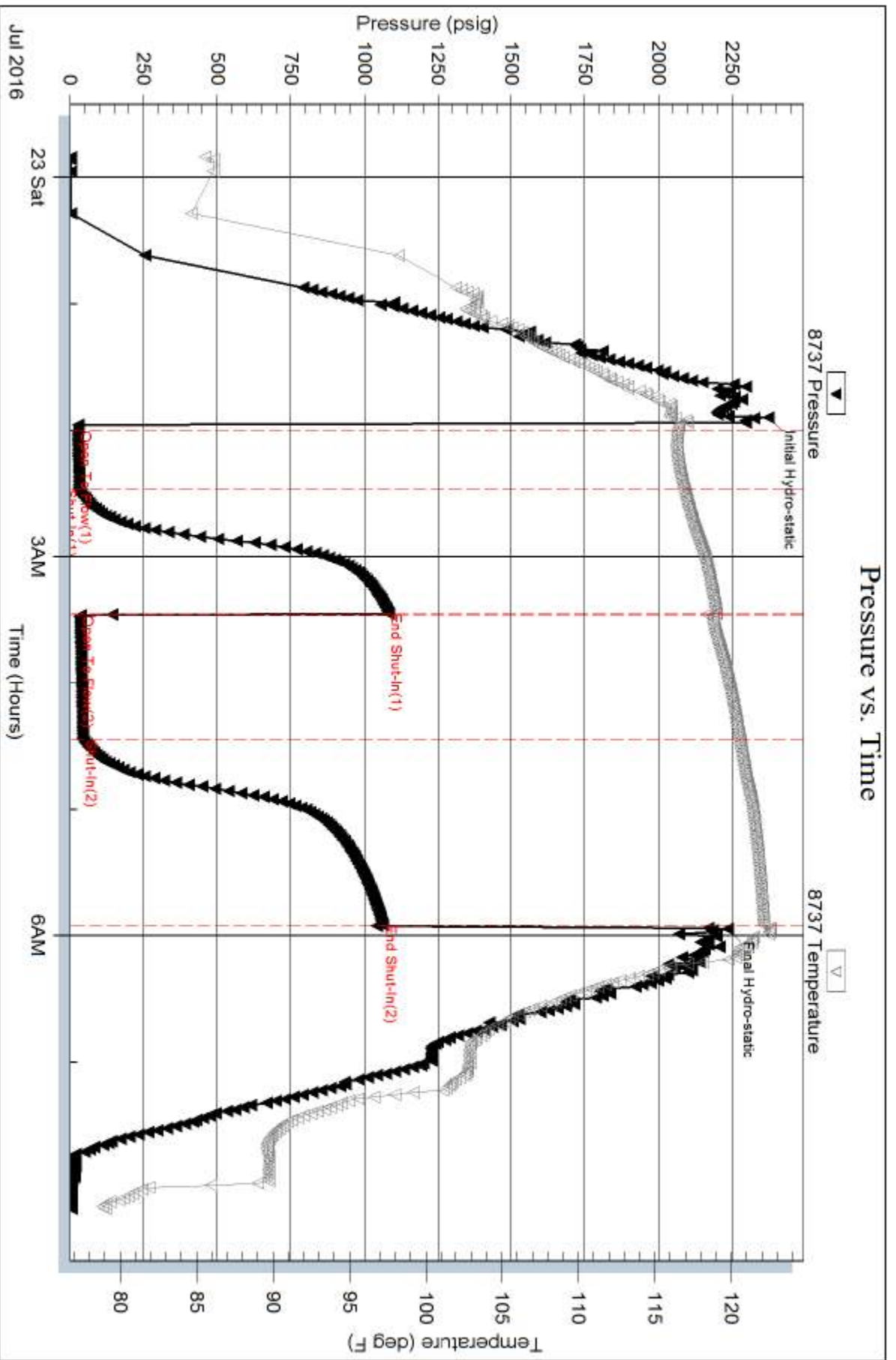
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .621 @ 39.7= 21,000 ppm



Serial #: 8646

Inside

Shakespeare Oil Company

Koehn 1 24

DST Test Number: 4

