



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil

**3-24S-23W Hodgeman KS**

202 W Main  
Salem, IL 62881

**Schaffer 1-3**

ATTN: Steve Davis

Job Ticket: 65921

**DST#: 2**

Test Start: 2019.11.03 @ 03:15:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:34:17

Time Test Ended: 11:57:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 4710.00 ft (KB) To 4742.00 ft (KB) (TVD)**

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4742.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8672**

**Inside**

Press@RunDepth: 120.68 psig @ 4711.00 ft (KB)

Capacity: psig

Start Date: 2019.11.03

End Date:

2019.11.03

Last Calib.:

2019.11.03

Start Time: 03:15:01

End Time:

11:57:02

Time On Btm:

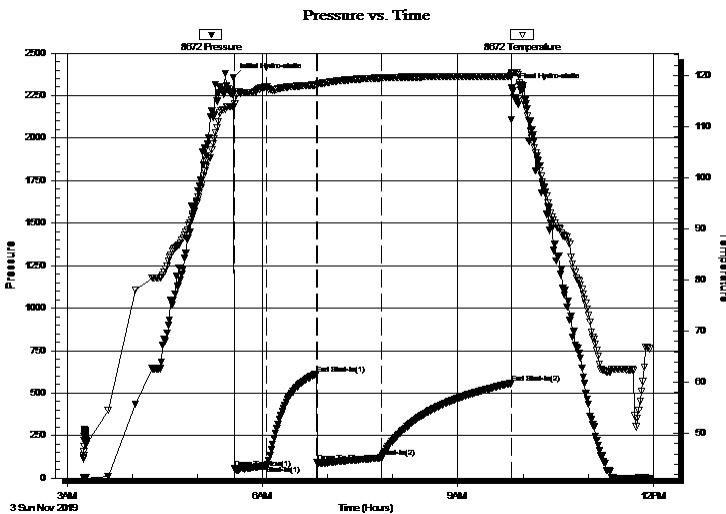
2019.11.03 @ 05:33:02

Time Off Btm:

2019.11.03 @ 09:49:47

**TEST COMMENT:** IF: Fair Blow , BOB in 18 minutes, Built to 20 inches  
IS: No Blow Back  
FF: Fair Blow , BOB in 13 minutes, Built to 35 inches  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.76	113.92	Initial Hydro-static
2	56.92	114.38	Open To Flow (1)
31	73.82	117.83	Shut-In(1)
77	613.90	118.13	End Shut-In(1)
78	90.51	118.23	Open To Flow (2)
137	120.68	119.52	Shut-In(2)
256	558.06	119.89	End Shut-In(2)
257	2297.79	120.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	373 GIP	0.00
126.00	GWOCM 12%G 12%W 24%O 52%M	1.77
131.00	GSY Oil 20%G 80%O	1.84

## Gas Rates

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

\* Recovery from multiple tests



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Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Reference Elevations: 2440.00 ft (KB)

2431.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 6751**

**Outside**

Press@RunDepth: psig @ 4711.00 ft (KB)

Start Date: 2019.11.03 End Date: 2019.11.03

Start Time: 03:15:01 End Time: 11:57:02

Capacity: psig

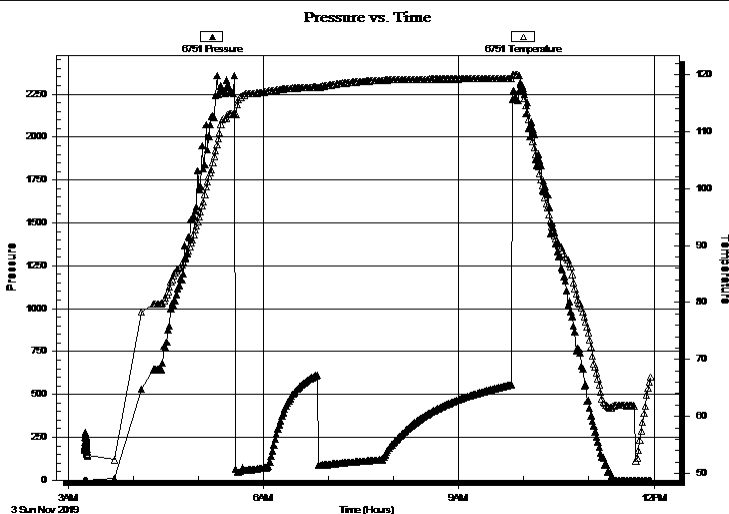
Last Calib.: 2019.11.03

Time On Btm:

Time Off Btm:

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IS: No Blow Back  
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FS: No Blow Back

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	373 GIP	0.00
126.00	GWOCM 12%G 12%W 24%O 52%M	1.77
131.00	GSY Oil 20%G 80%O	1.84

### Gas Rates

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

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**FLUID SUMMARY**

Shakespeare Oil

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202 W Main  
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**Schaffer 1-3**

Job Ticket: 65921

**DST#: 2**

ATTN: Steve Davis

Test Start: 2019.11.03 @ 03:15:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

54000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	373 GIP	0.000
126.00	GWOCM 12%G 12%W 24%O 52%M	1.767
131.00	GSY Oil 20%G 80%O	1.838

Total Length: 257.00 ft      Total Volume: 3.605 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 38.8 @ 62 degrees

RW w as .13 @ 77 degrees

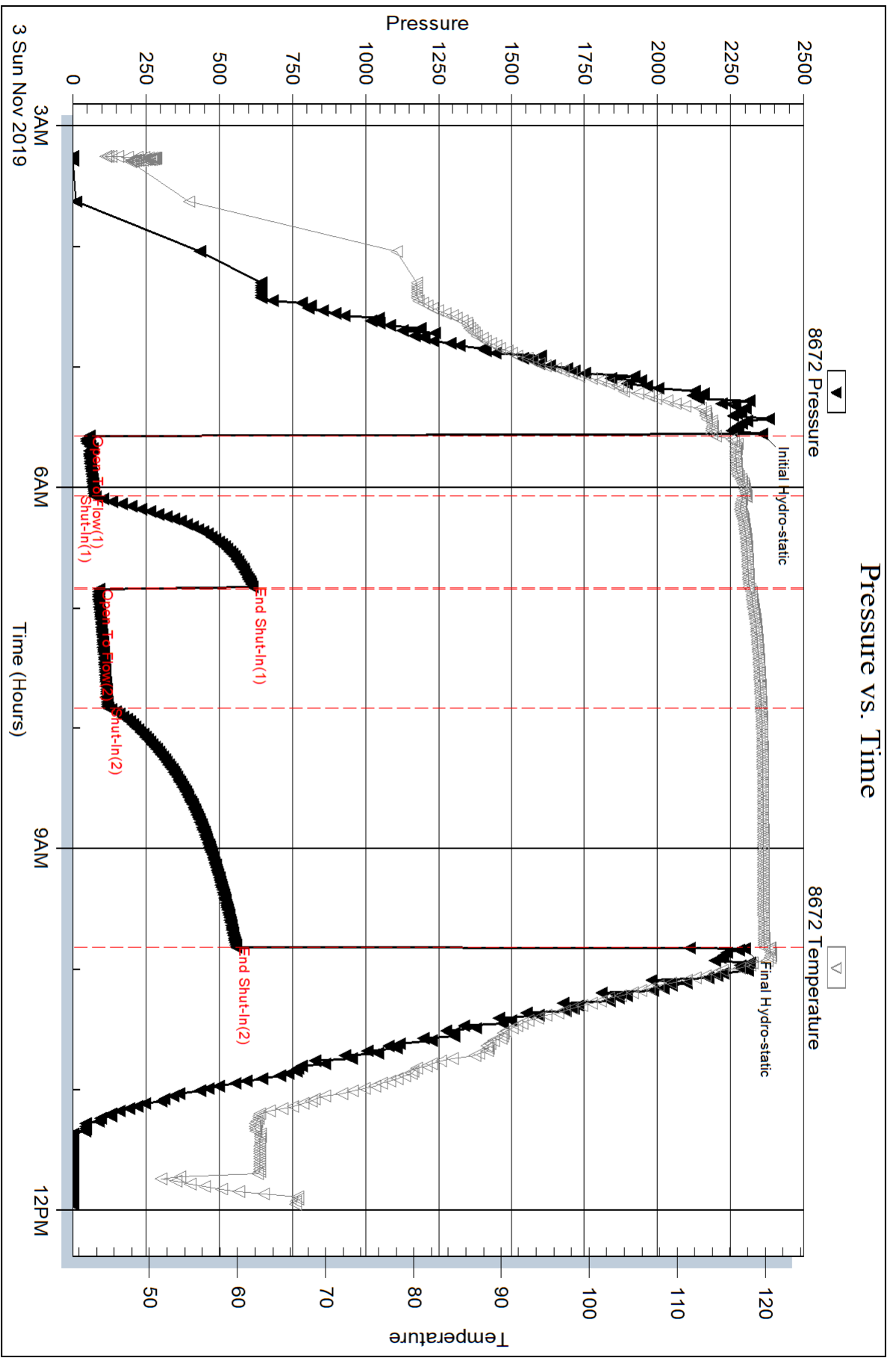
Serial #: 8672

Inside

Shakespeare Oil

Schaffer 1-3

DST Test Number: 2



Serial #: 6751

Outside Shakespeare Oil

Schaffer 1-3

DST Test Number: 2

