



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co.
202 W Main St.
Salem IL
62881
ATTN: Tim Priest

3-16-34 Scott Co KS

Scott Community 1-3

Job Ticket: 63747

DST#: 3

Test Start: 2017.06.23 @ 22:46:15

GENERAL INFORMATION:

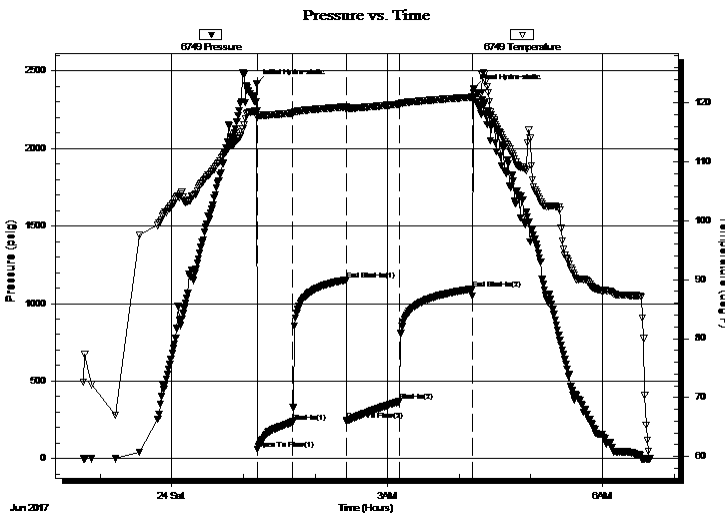
Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:11:15
 Time Test Ended: 06:40:00
 Interval: **4631.00 ft (KB) To 4710.00 ft (KB) (TVD)**
 Total Depth: 4710.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3094.00 ft (KB)
 3083.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6749 Outside

Press@RunDepth: 368.16 psig @ 4705.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.23 End Date: 2017.06.24 Last Calib.: 2017.06.24
 Start Time: 22:46:15 End Time: 06:40:00 Time On Btm: 2017.06.24 @ 01:11:00
 Time Off Btm: 2017.06.24 @ 04:12:15

TEST COMMENT: IF:BOB in 11 min.
 IS:No return blow
 FF:BOB in 17 min.
 FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.34	118.68	Initial Hydro-static
1	61.17	117.50	Open To Flow (1)
30	237.30	118.29	Shut-In(1)
75	1152.69	119.36	End Shut-In(1)
75	249.22	118.87	Open To Flow (2)
120	368.16	119.80	Shut-In(2)
180	1093.48	120.99	End Shut-In(2)
182	2386.03	121.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
233.00	ocmw 2%o 20%m 78%w (collars)	1.15
124.00	ocmw 3%o 13%m 84%w	1.74
340.00	w com 2%w 3%o 95%m	4.77

* Recovery from multiple tests

Gas Rates

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



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Test Start: 2017.06.23 @ 22:46:15

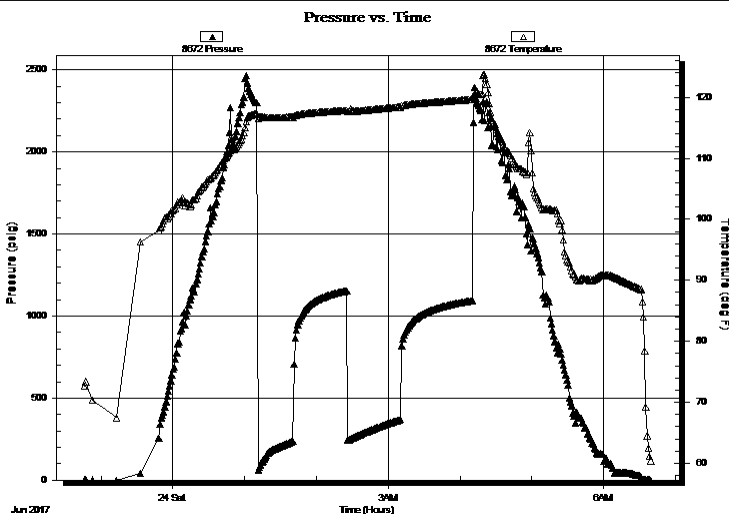
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 01:11:15 Tester: Mike Roberts
Time Test Ended: 06:40:00 Unit No: 81

Interval: 4631.00 ft (KB) To 4710.00 ft (KB) (TVD) Reference Elevations: 3094.00 ft (KB)
Total Depth: 4710.00 ft (KB) (TVD) 3083.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8672 **Inside**
Press@RunDepth: psig @ 4705.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.23 End Date: 2017.06.24 Last Calib.: 2017.06.24
Start Time: 22:46:15 End Time: 06:39:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:BOB in 11 min.
IS:No return blow
FF:BOB in 17 min.
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
233.00	ocmw 2%o 20%m 78%w (collars)	1.15
124.00	ocmw 3%o 13%m 84%w	1.74
340.00	w com 2%w 3%o 95%m	4.77

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.

3-16-34 Scott Co KS

202 W Main St.
Salem IL
62881

Scott Community 1-3

Job Ticket: 63747

DST#: 3

ATTN: Tim Priest

Test Start: 2017.06.23 @ 22:46:15

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:

25000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
233.00	ocmw 2%o 20%m 78%w (collars)	1.146
124.00	ocmw 3%o 13%m 84%w	1.739
340.00	wcom 2%w 3%o 95%m	4.769

Total Length: 697.00 ft Total Volume: 7.654 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

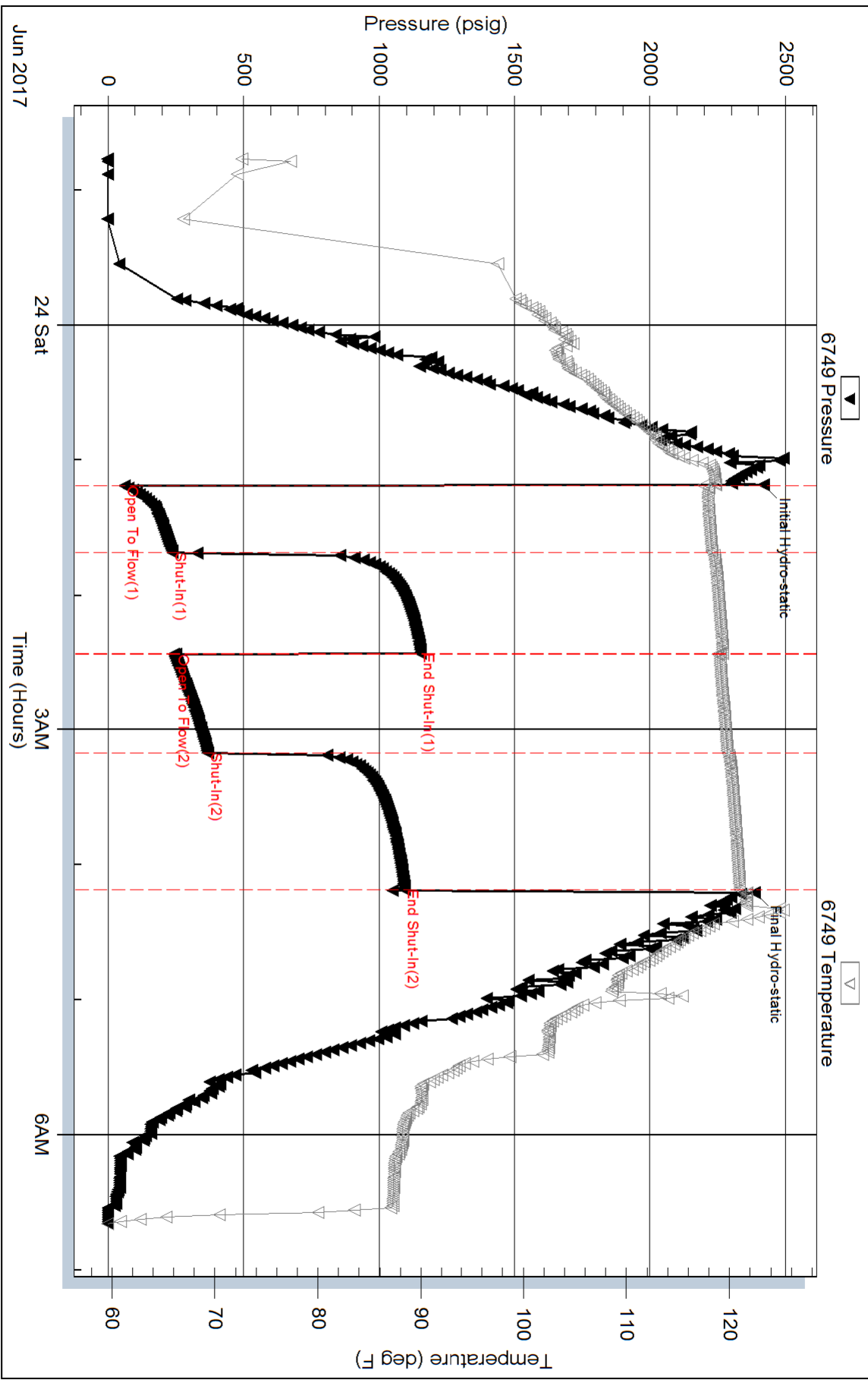
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .409 @ 53.2*= 25,000 ppm

Pressure vs. Time



Serial #: 8672

Inside

Shakespeare Oil Co.

Scott Community 1-3

DST Test Number: 3

