



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St
Salem IL
62881
ATTN: Vern Schrag

Schowalter 8-12

Job Ticket: 64829

DST#: 2

Test Start: 2019.06.24 @ 10:48:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:57:45

Time Test Ended: 18:15:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4278.00 ft (KB) To 4345.00 ft (KB) (TVD)

Reference Elevations: 2972.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD)

2962.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8521

Inside

Press@RunDepth: 345.39 psig @ 4315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.24

End Date:

2019.06.24

Last Calib.:

2019.06.24

Start Time:

10:48:15

End Time:

18:15:30

Time On Btm:

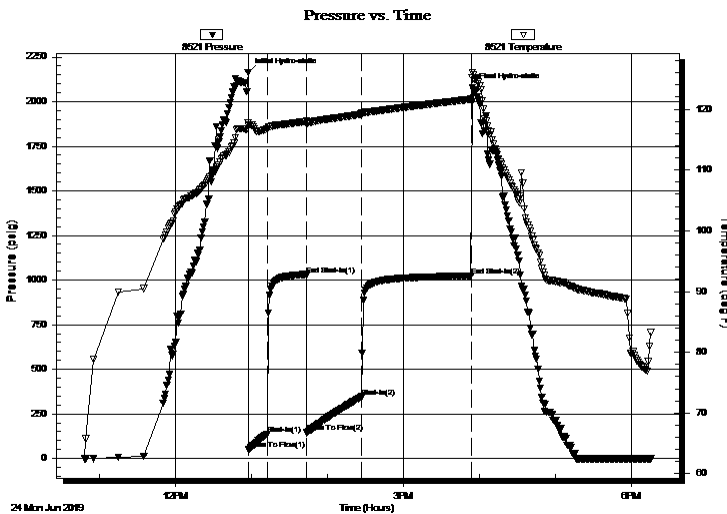
2019.06.24 @ 12:57:15

Time Off Btm:

2019.06.24 @ 15:54:30

TEST COMMENT: IF:BOB in 6 min. Built to 25 3/4" blow
IS:Return blow built to 3 1/4"
FF:BOB in 8 min. Built to 71" blow
FS:Return bow built to 4 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.64	117.78	Initial Hydro-static
1	53.24	117.32	Open To Flow (1)
15	136.25	116.72	Shut-In(1)
47	1025.57	118.02	End Shut-In(1)
47	145.19	117.59	Open To Flow (2)
90	345.39	119.21	Shut-In(2)
177	1023.21	121.66	End Shut-In(2)
178	2077.60	126.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP- 496 ft	0.00
439.00	gco 20%g 80%o	6.16
248.00	ocm 5%o 5%g 80%m	3.48
124.00	5%g 5%o 10%m 80%m	1.74

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Schowalter 8-12

Job Ticket: 64829

DST#: 2

ATTN: Vern Schrag

Test Start: 2019.06.24 @ 10:48:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

22000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP- 496 ft	0.000
439.00	gco 20%g 80%o	6.158
248.00	ocm 5%o 5%g 80%m	3.479
124.00	5%g 5%o 10%m 80%m	1.739

Total Length: 811.00 ft Total Volume: 11.376 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 32 @ 90 corrected to 35@ 60

RW= .371@ 89.5= 22,000 ppm

Serial #: 8521

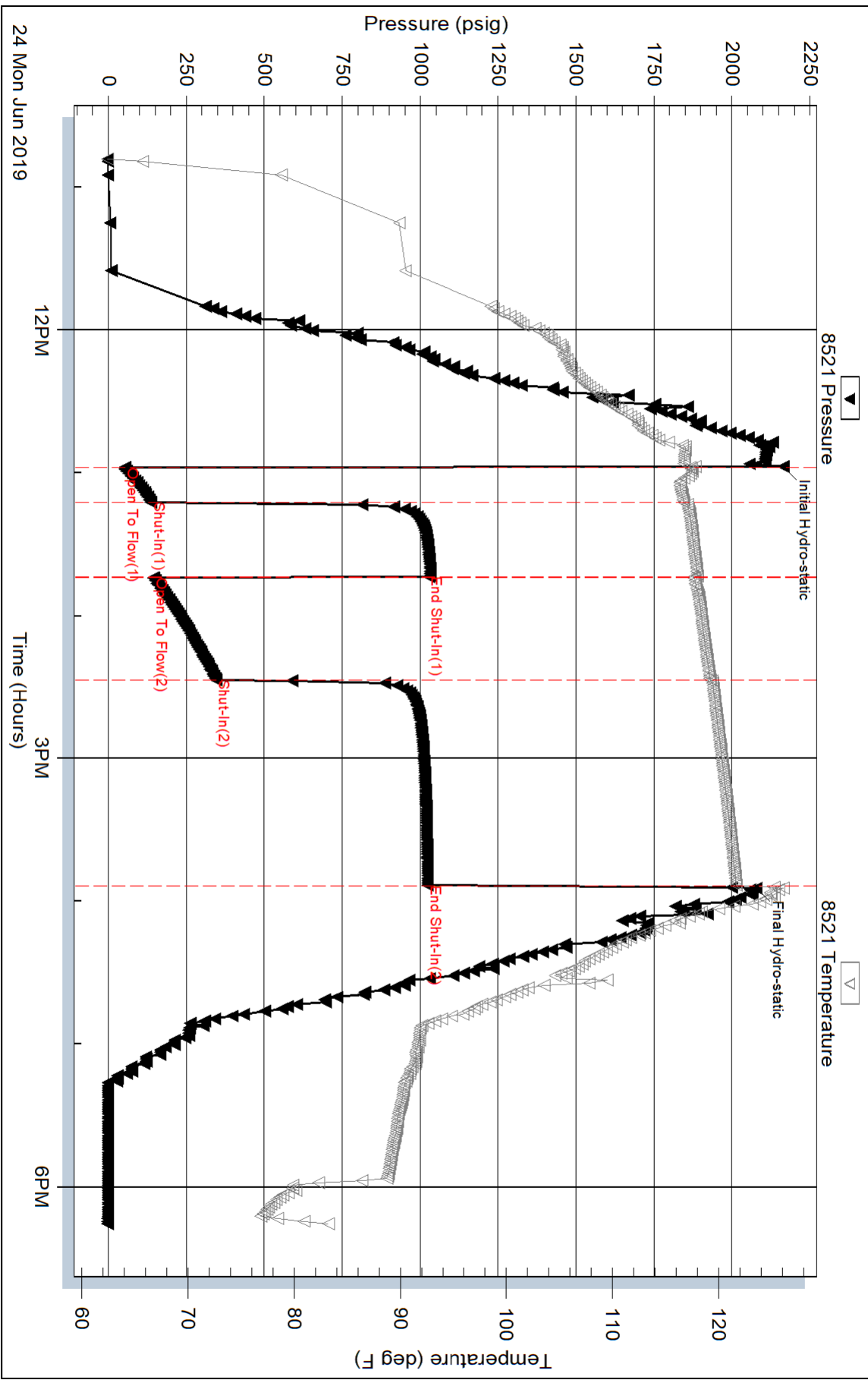
Inside

Shakespeare Oil Co. Inc.

Schowalter 8-12

DST Test Number: 2

Pressure vs. Time



Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Schowalter 8-12

DST Test Number: 2

