



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL 62881

Sanders Comm. 1-12

ATTN: Tim Lauer

Job Ticket: 64841

DST#: 3

Test Start: 2019.07.24 @ 03:00:15

GENERAL INFORMATION:

Formation: **Marm A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:00:30

Time Test Ended: 09:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4390.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8521

Inside

Press@RunDepth: 150.34 psig @ 4460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.24

End Date:

2019.07.24

Last Calib.:

2019.07.24

Start Time: 03:00:15

End Time:

09:51:00

Time On Btm:

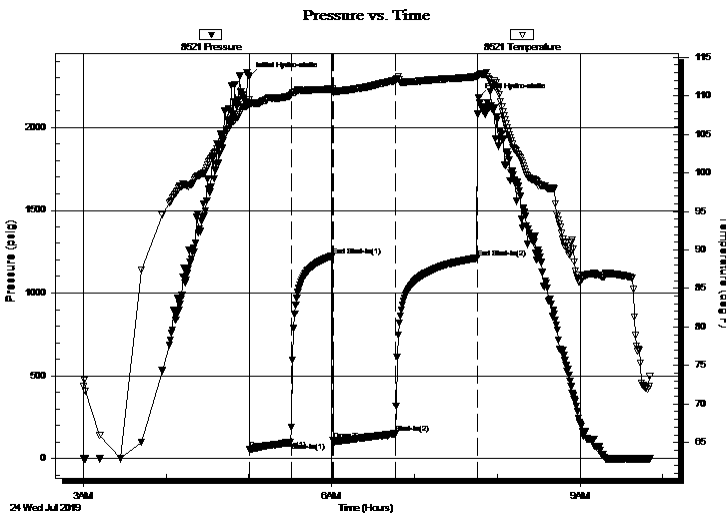
2019.07.24 @ 05:00:15

Time Off Btm:

2019.07.24 @ 07:46:45

TEST COMMENT: IF: Built to 6 3/4" blow
IS: No return blow
FF: Built to 8 1/2" blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.70	109.54	Initial Hydro-static
1	54.04	108.75	Open To Flow (1)
31	98.75	110.02	Shut-In(1)
61	1223.38	110.87	End Shut-In(1)
61	112.08	110.46	Open To Flow (2)
106	150.34	111.98	Shut-In(2)
166	1211.67	112.48	End Shut-In(2)
167	2181.96	112.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	free oil 100%o	0.14
35.00	gcom 10%g 40%o 50%m	0.49
124.00	ocw m 10%o 10%w 80%m	1.74
62.00	ocm 2%o 98%m	0.87

Gas Rates

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

* Recovery from multiple tests



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TESTING, INC.**

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FLUID SUMMARY

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12-16-35 Wichita Co KS

202 West Main St
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Sanders Comm. 1-12

Job Ticket: 64841

DST#: 3

ATTN: Tim Lauer

Test Start: 2019.07.24 @ 03:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	free oil 100%o	0.140
35.00	gcom 10%g 40%o 50%m	0.491
124.00	ocw m 10%o 10%w 80%m	1.739
62.00	ocm 2%o 98%m	0.870

Total Length: 231.00 ft Total Volume: 3.240 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 19@60

RW= .378@ 72.3= 20,000 ppm

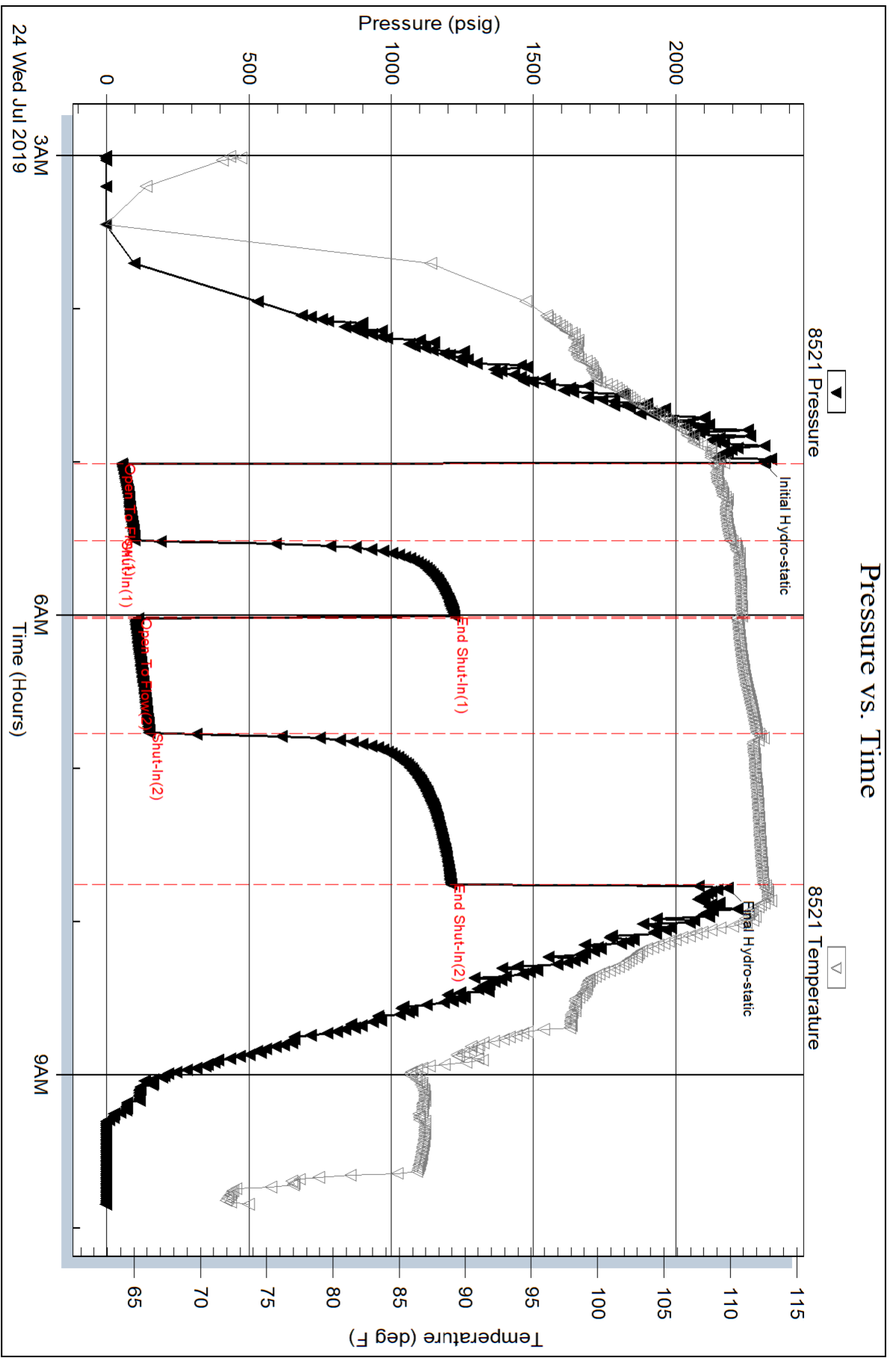
Serial #: 8521

Inside

Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64841

Printed: 2019.07.24 @ 10:57:59

Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 3

