



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: 64828

DST#: 1

Test Start: 2019.06.23 @ 08:52:23

GENERAL INFORMATION:

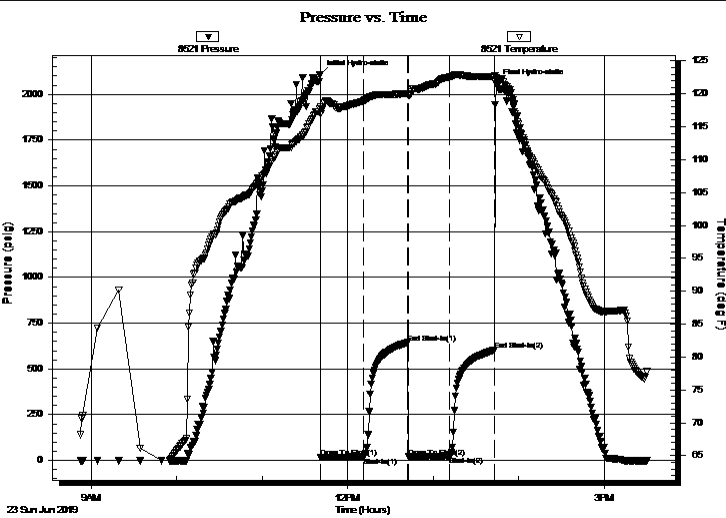
Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:41:08
 Time Test Ended: 15:30:08
 Interval: **4212.00 ft (KB) To 4227.00 ft (KB) (TVD)**
 Total Depth: 4227.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2972.00 ft (KB)
 2962.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8521

Inside

Press@RunDepth: 22.48 psig @ 4213.00 ft (KB)
 Start Date: 2019.06.23 End Date: 2019.06.23
 Start Time: 08:52:23 End Time: 15:30:08
 Capacity: 8000.00 psig
 Last Calib.: 2019.06.23
 Time On Btm: 2019.06.23 @ 11:40:53
 Time Off Btm: 2019.06.23 @ 13:44:08

TEST COMMENT: IF: Built to 1" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.61	118.07	Initial Hydro-static
1	17.20	116.95	Open To Flow (1)
31	19.60	118.92	Shut-In(1)
61	642.92	120.04	End Shut-In(1)
62	20.10	119.69	Open To Flow (2)
91	22.48	122.58	Shut-In(2)
122	601.13	122.62	End Shut-In(2)
124	2059.52	122.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 2%o 98 %m	0.42

Gas Rates

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



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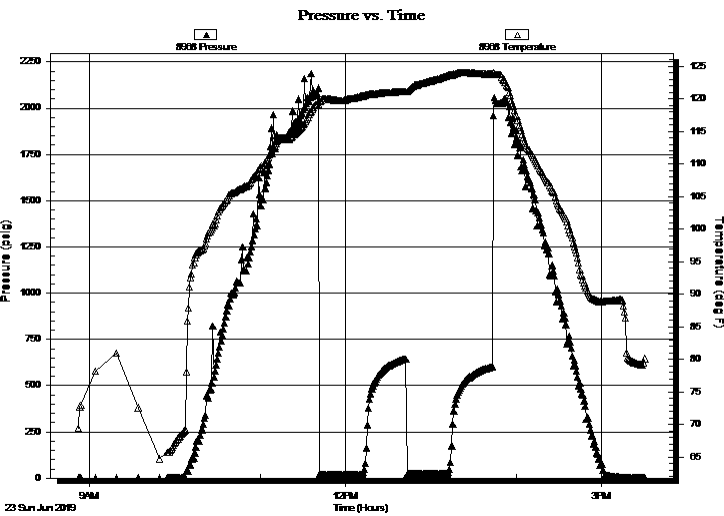
12-18s-32w Scott Co KS
Schowalter 8-12
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 2962.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8968 Outside
 Press@RunDepth: psig @ 4213.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.23 End Date: 2019.06.23 Last Calib.: 2019.06.23
 Start Time: 08:52:15 End Time: 15:30:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 1" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	ocm 2%o 98 %m	0.42

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St
Salem IL
62881

Schowalter 8-12

Job Ticket: 64828

DST#: 1

ATTN: Vern Schrag

Test Start: 2019.06.23 @ 08:52:23

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:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 2% o 98 %m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

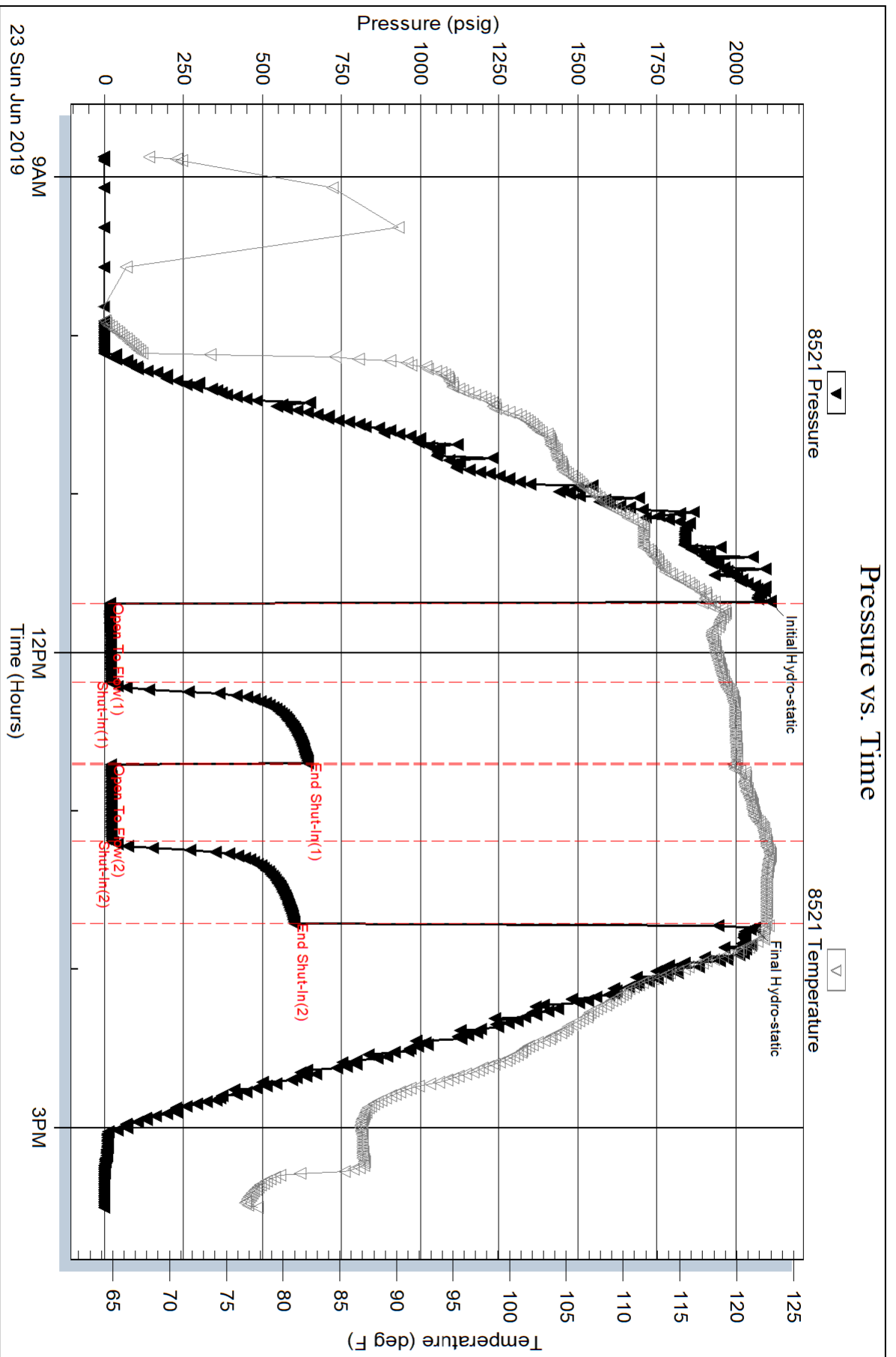
Serial #: 8521

Inside

Shakespeare Oil Co. Inc.

Schowalter 8-12

DST Test Number: 1

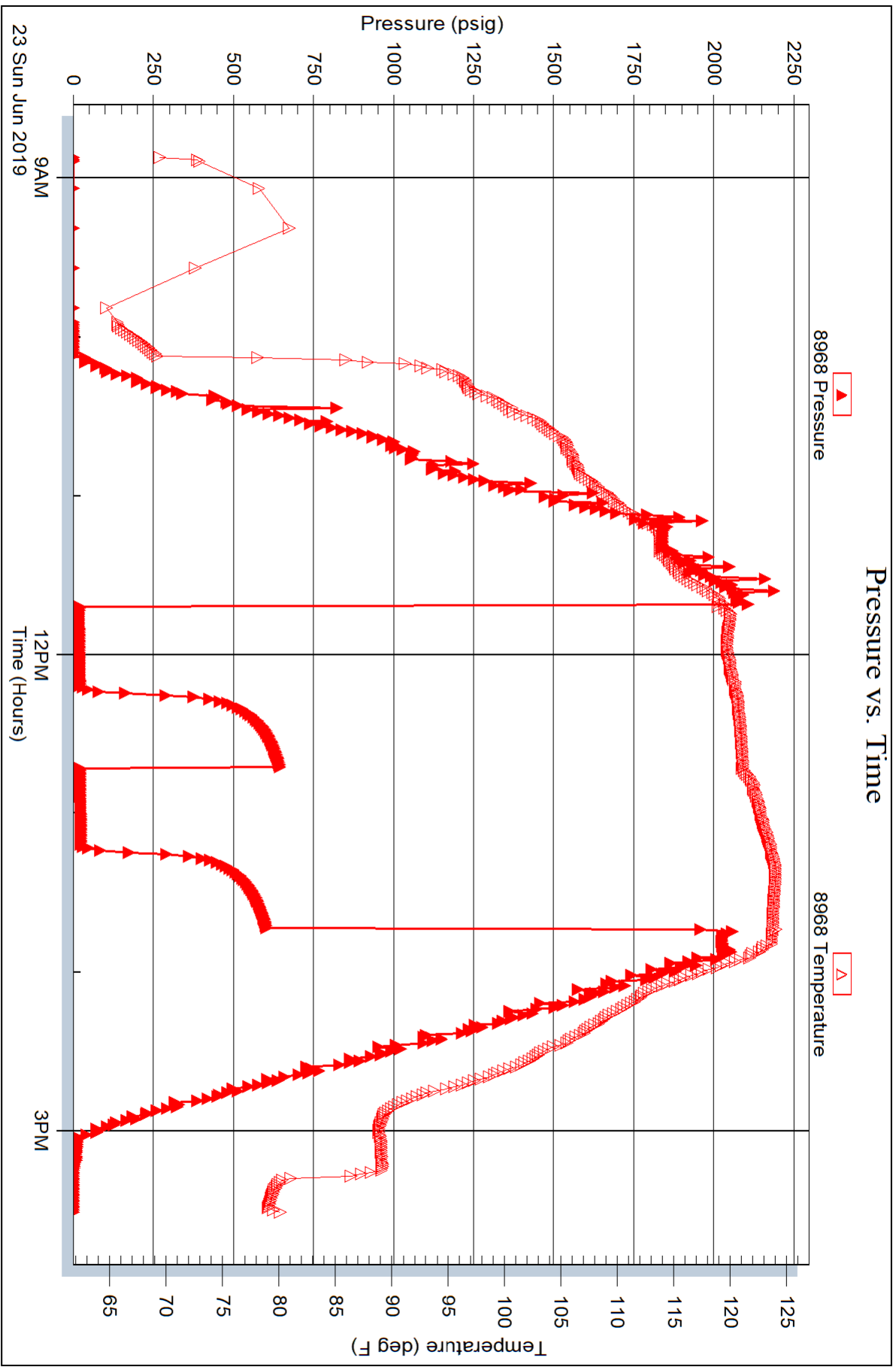


Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Schowalter 8-12

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64828

Printed: 2019.06.23 @ 19:03:13