



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

28-14s-32w Logan Ks

202 W Main St
Salem, IL 62881

Ottley 4-28

Job Ticket: 64833

DST#: 5

ATTN: Tim Lauer

Test Start: 2019.06.29 @ 17:49:15

GENERAL INFORMATION:

Formation: **Pawnee-Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:45

Time Test Ended: 00:42:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4105.00 ft (KB) To 4195.00 ft (KB) (TVD)

Reference Elevations: 2673.00 ft (KB)

Total Depth: 4195.00 ft (KB) (TVD)

2664.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8521

Inside

Press@RunDepth: 70.43 psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.29

End Date:

2019.06.30

Last Calib.:

2019.06.30

Start Time: 19:49:15

End Time:

02:42:45

Time On Btm:

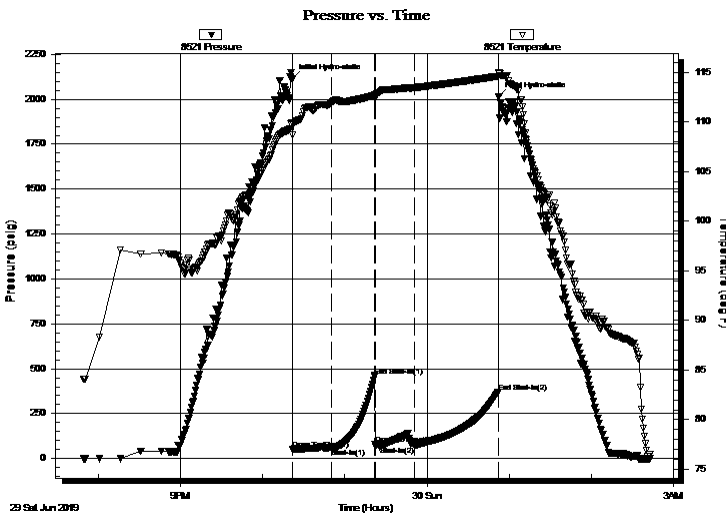
2019.06.29 @ 22:21:30

Time Off Btm:

2019.06.30 @ 00:52:15

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.67	109.98	Initial Hydro-static
1	50.23	108.67	Open To Flow (1)
29	57.18	111.92	Shut-In(1)
61	461.40	112.72	End Shut-In(1)
61	79.76	112.38	Open To Flow (2)
90	70.43	113.47	Shut-In(2)
151	369.81	114.63	End Shut-In(2)
151	2013.31	115.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	vsocm 1%o 99%m	0.42

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Ottley 4-28

Job Ticket: 64833

DST#: 5

ATTN: Tim Lauer

Test Start: 2019.06.29 @ 17:49:15

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:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	vsocm 1%o 99%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

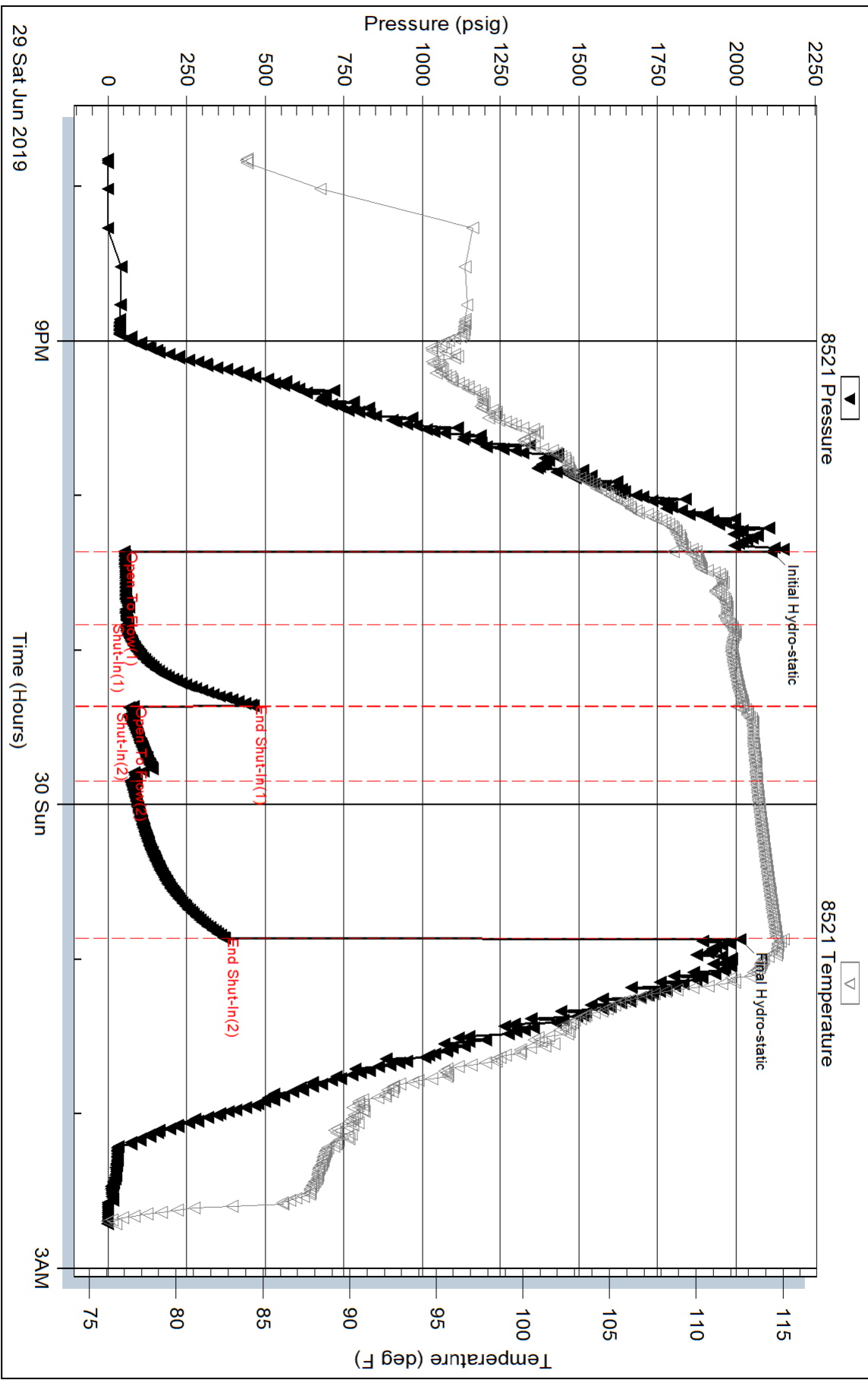
Inside

Shakespeare Oil Co

Ottley 4-28

DST Test Number: 5

Pressure vs. Time

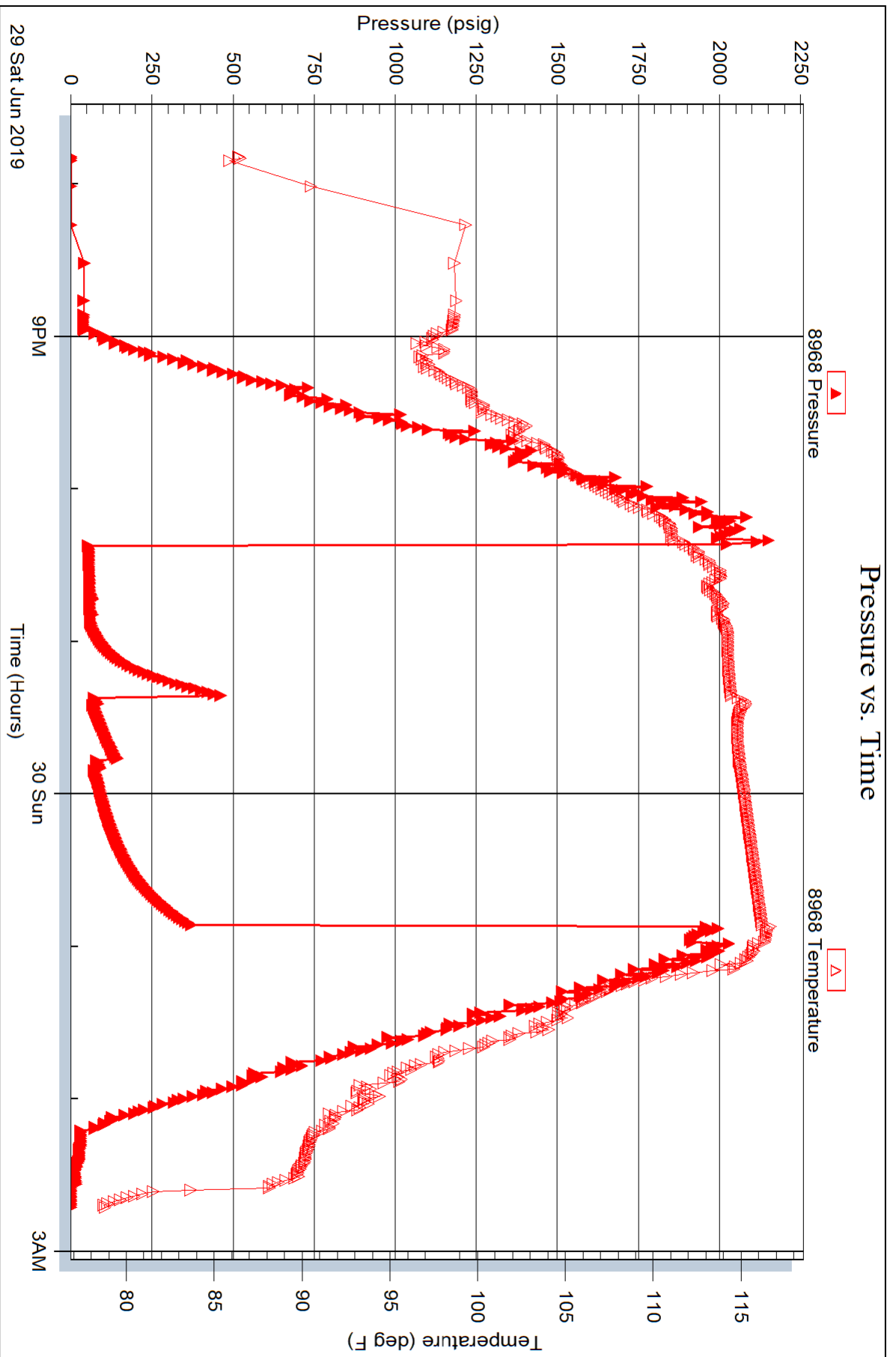


Serial #: 8968

Outside Shakespeare Oil Co

Ottley 4-28

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 64833

Printed: 2019.06.30 @ 12:17:46