



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

12-17s-35w Wichita, KS

202 W Main St
Salem, IL 62881

MazanecCommunity1-12

ATTN: Vern Schrag

Job Ticket: 65237

DST#: 2

Test Start: 2019.07.05 @ 07:36:02

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:14:32
 Time Test Ended: 13:52:02
 Interval: **4335.00 ft (KB) To 4355.00 ft (KB) (TVD)**
 Total Depth: 4355.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3174.00 ft (KB)
 3164.00 ft (CF)
 KB to GR/CF: 10.00 ft

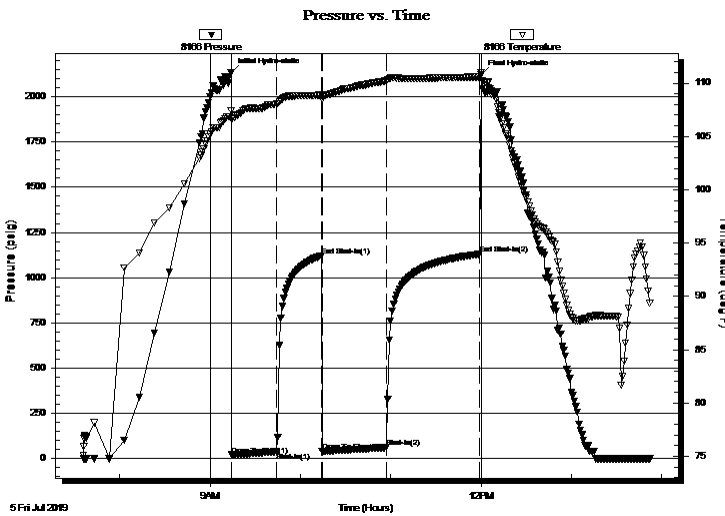
Serial #: 8166

Outside

Press@RunDepth: 60.88 psig @ 4336.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.05 End Date: 2019.07.05 Last Calib.: 2019.07.05
 Start Time: 07:36:07 End Time: 13:52:01 Time On Btm: 2019.07.05 @ 09:14:02
 Time Off Btm: 2019.07.05 @ 12:00:02

TEST COMMENT: IF: 1/2 blow built to 4 3/4.
 IS: No return.
 FF: Surface blow built to 4.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.78	107.40	Initial Hydro-static
1	19.45	106.70	Open To Flow (1)
30	36.71	108.02	Shut-In(1)
60	1121.44	108.88	End Shut-In(1)
61	39.20	108.49	Open To Flow (2)
103	60.88	110.21	Shut-In(2)
165	1129.72	110.57	End Shut-In(2)
166	2122.56	111.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocw m 10%g 10%o 10%w 70%m	0.88
60.00	go 5%g 95%o	0.84

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

17 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
63.00	gocw m 10%g 10%o 10%w 70%m	0.884
60.00	go 5%g 95%o	0.842

Total Length: 123.00 ft

Total Volume: 1.726 bbf

Num Fluid Samples: 0

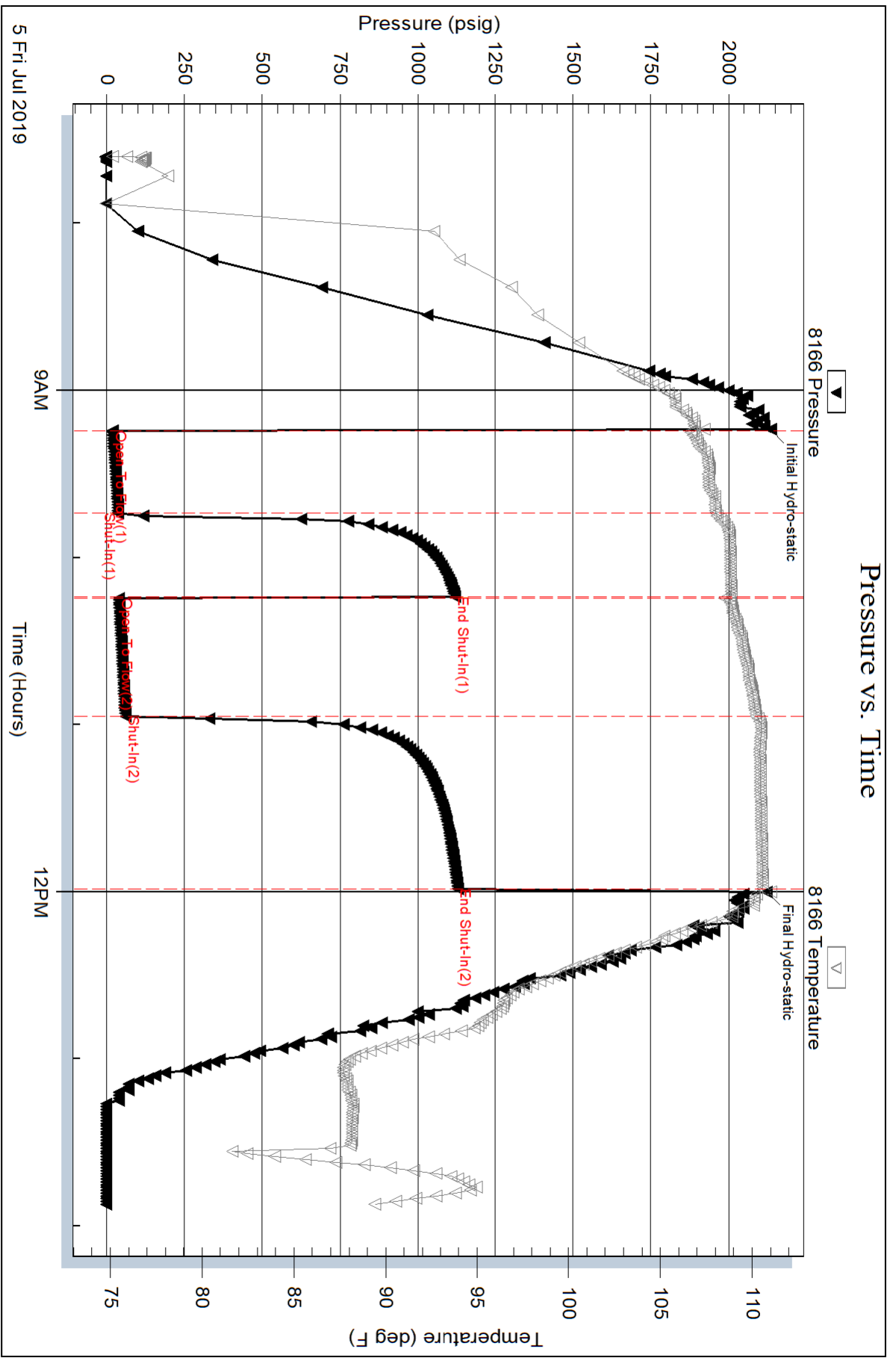
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 19@80=17



Serial #: 6651

Inside

Shakespeare Oil Co

Mazanec Community 1-12

DST Test Number: 2

