



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: 64835

DST#: 7

ATTN: Tim Lauer

Test Start: 2019.07.01 @ 06:30:15

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:22:15

Time Test Ended: 14:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4270.00 ft (KB) To 4315.00 ft (KB) (TVD)

Reference Elevations: 2673.00 ft (KB)

Total Depth: 4315.00 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: 166.52 psig @ 4310.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.01

End Date:

2019.07.01

Last Calib.:

2019.07.01

Start Time: 06:30:15

End Time:

14:51:00

Time On Btm:

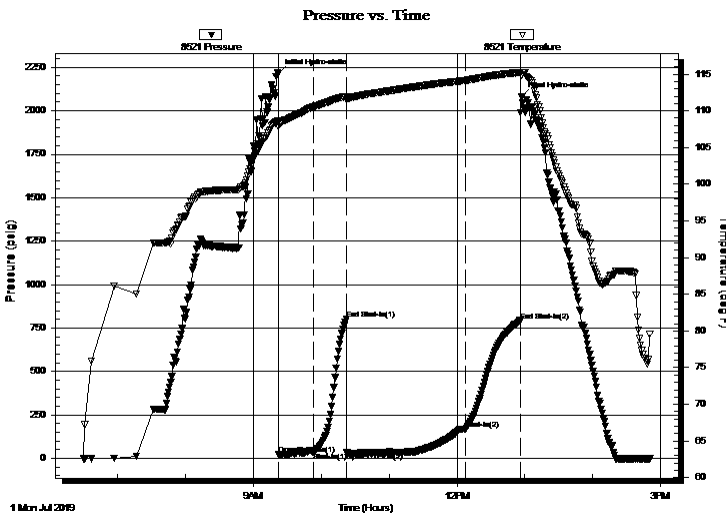
2019.07.01 @ 09:22:00

Time Off Btm:

2019.07.01 @ 12:57:15

TEST COMMENT: IF: Built to 3/4" blow
IS: No return blow
FF: Built to 4 1/4" blow
FS: Return blow built to 3/4" and died to 1/2" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.00	108.69	Initial Hydro-static
1	22.07	107.82	Open To Flow (1)
31	36.62	110.51	Shut-In(1)
61	800.21	111.98	End Shut-In(1)
61	33.24	111.56	Open To Flow (2)
166	166.52	114.14	Shut-In(2)
214	792.36	115.23	End Shut-In(2)
216	2082.81	114.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
17.00	ocm 5%o 95%m	0.24
45.00	sgcom 10%g 20%o 70 %m	0.63

* 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

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DST#: 7

ATTN: Tim Lauer

Test Start: 2019.07.01 @ 06:30:15

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 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 bbbl
17.00	ocm 5%o 95%m	0.238
45.00	sgcom 10%g 20%o 70 %m	0.631

Total Length: 62.00 ft Total Volume: 0.869 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

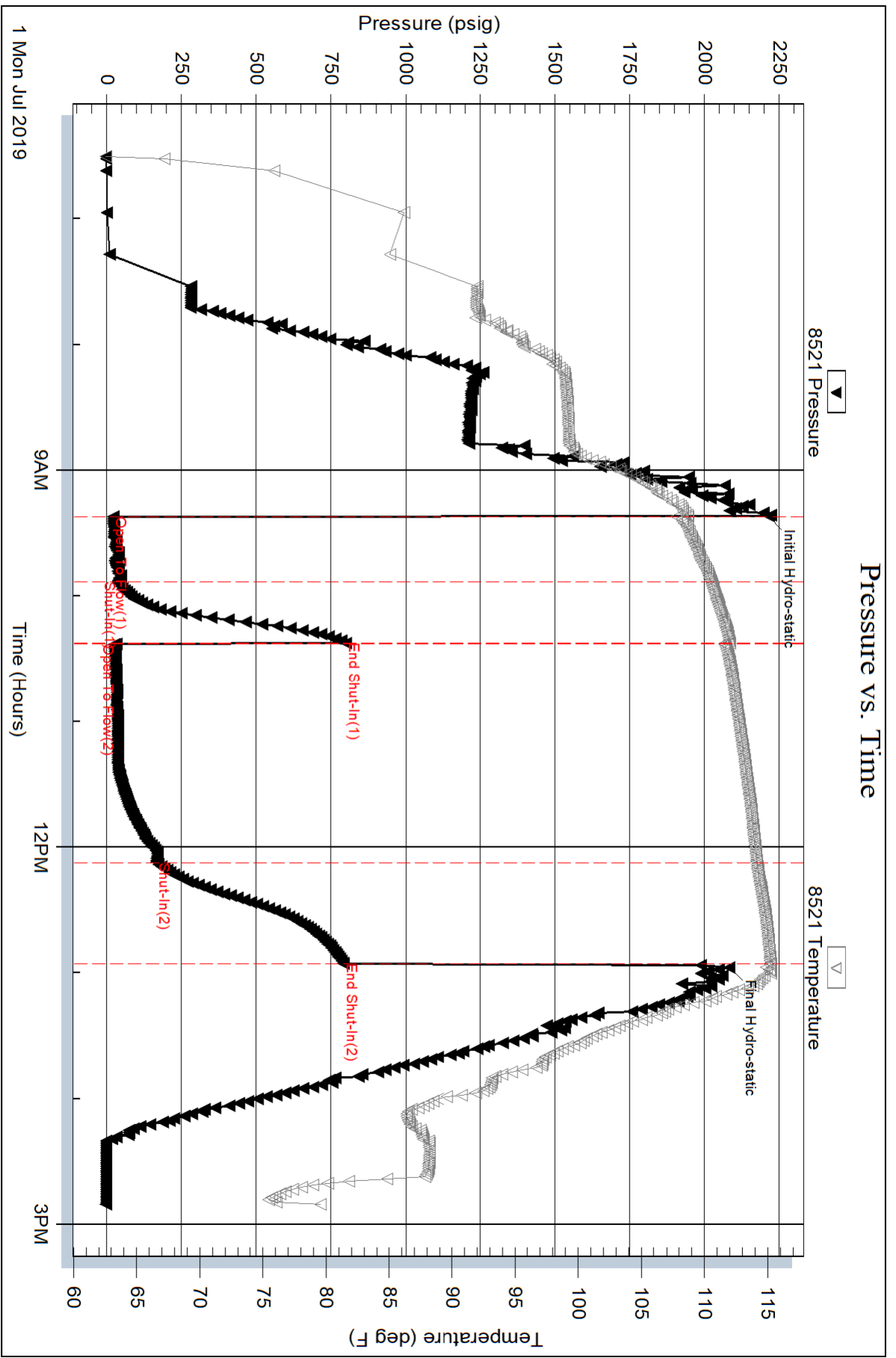
Serial #: 8521

Inside

Shakespeare Oil Co

Ottley 4-28

DST Test Number: 7



Serial #: 8968

Outside Shakespeare Oil Co

Ottley 4-28

DST Test Number: 7

