



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64840 **DST#: 2**

Test Start: 2019.07.22 @ 17:28:15

GENERAL INFORMATION:

Formation: **Lansing D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:56:15

Time Test Ended: 01:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4140.00 ft (KB) To 4185.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4185.00 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: 400.20 psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.22

End Date:

2019.07.23

Last Calib.: 2019.07.23

Start Time: 17:28:15

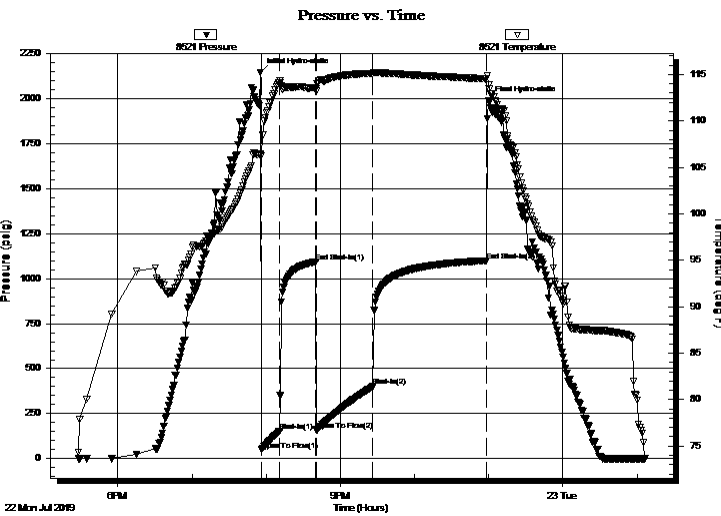
End Time:

01:07:00

Time On Btm: 2019.07.22 @ 19:55:15

Time Off Btm: 2019.07.22 @ 23:00:00

TEST COMMENT: IF:BOB in 9 min. Built to 22" blow
IS:No return blow
FF:BOB in 8 min. Built to 52" blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.09	106.40	Initial Hydro-static
1	48.39	106.28	Open To Flow (1)
16	153.73	114.13	Shut-In(1)
45	1095.27	113.49	End Shut-In(1)
46	157.09	113.23	Open To Flow (2)
91	400.20	115.09	Shut-In(2)
184	1101.12	114.54	End Shut-In(2)
185	1991.09	113.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
201.00	mud 100%m	2.82
186.00	mcw 40%m 60%w	2.61
434.00	mcw 10%m 90%w	6.09
0.00	Oil Skim on top of tool	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2019.07.22 @ 17:28:15

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: 27000 ppm
Viscosity: 72.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	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
201.00	mud 100%m	2.820
186.00	mcw 40%m 60%w	2.609
434.00	mcw 10%m 90%w	6.088
0.00	Oil Skim on top of tool	0.000

Total Length: 821.00 ft Total Volume: 11.517 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .405@ 61.3= 27,000 ppm

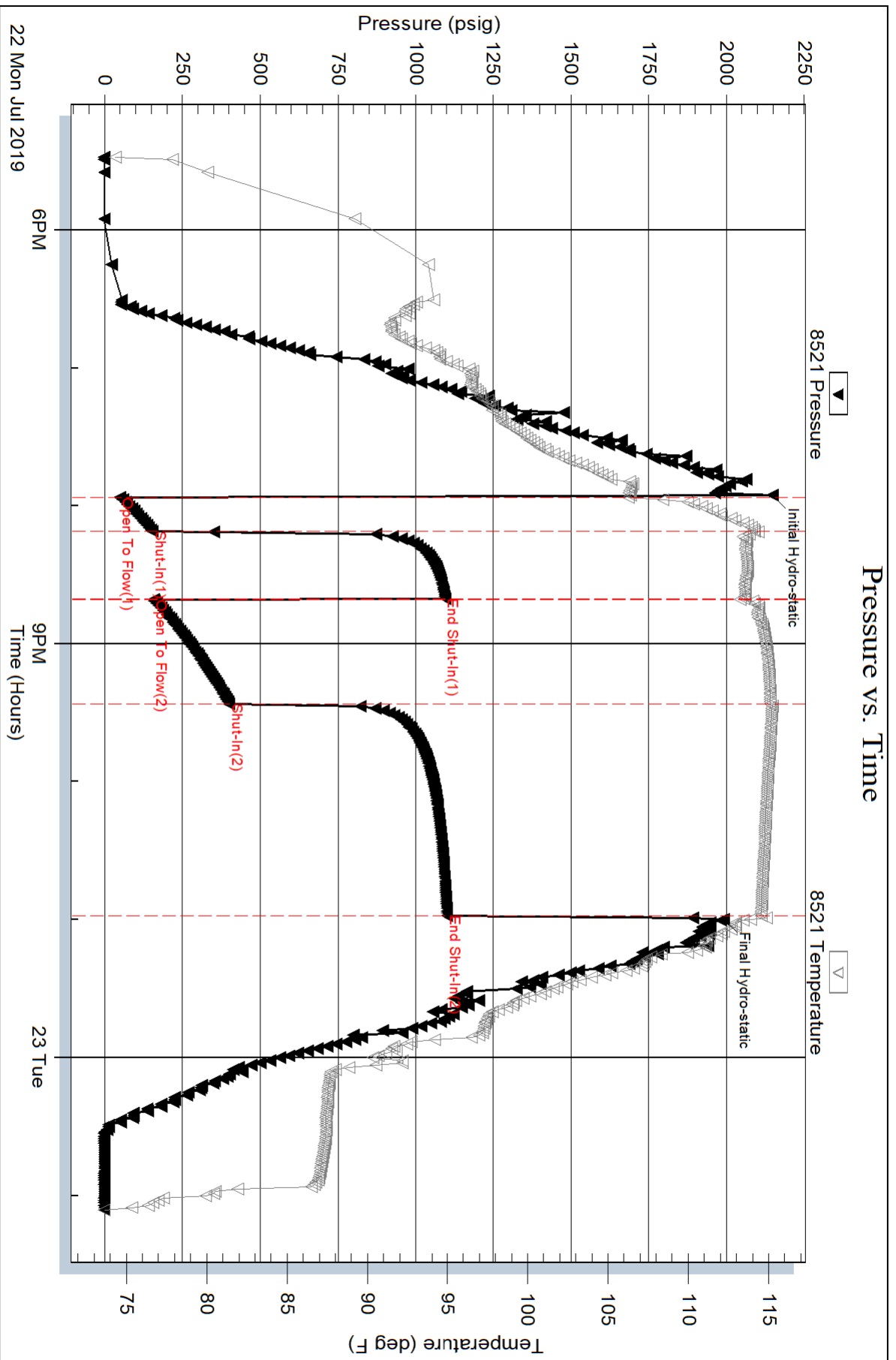
Serial #: 8521

Inside

Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 2



Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 2

