



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company

21-16s-34w Scott Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Priest

Edwards 1 21

Job Ticket: 64593

DST#: 1

Test Start: 2016.08.02 @ 07:15:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:14:30

Time Test Ended: 14:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4447.00 ft (KB) To 4485.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4485.00 ft (KB) (TVD)

3132.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: 39.71 psig @ 4480.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.02

End Date:

2016.08.02

Last Calib.:

2016.08.02

Start Time:

07:15:15

End Time:

14:12:30

Time On Btm:

2016.08.02 @ 09:14:15

Time Off Btm:

2016.08.02 @ 12:15:45

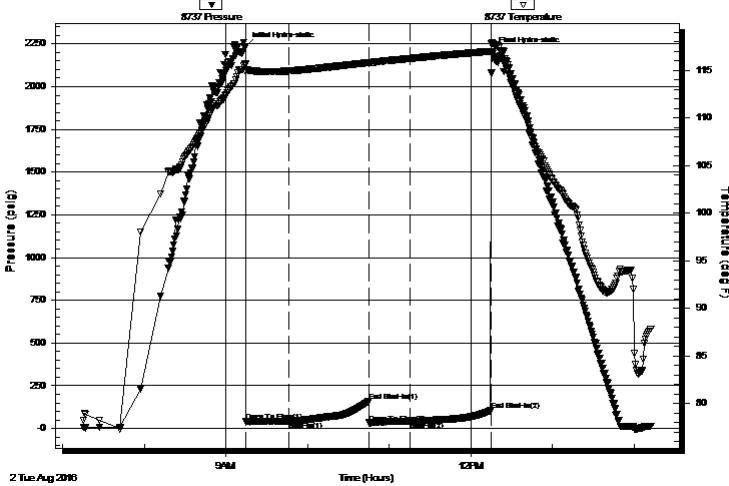
TEST COMMENT: IF:1/8" blow died in 25 min.

IS:No return blow

FF:No blow

FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.81	115.67	Initial Hydro-static
1	40.20	114.85	Open To Flow (1)
33	42.49	114.94	Shut-In(1)
91	158.76	115.81	End Shut-In(1)
91	32.41	115.76	Open To Flow (2)
121	39.71	116.24	Shut-In(2)
181	103.89	117.00	End Shut-In(2)
182	2202.74	117.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.28

Gas Rates

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



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Total Depth: 4485.00 ft (KB) (TVD)

3132.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8646 Inside

Press@RunDepth: psig @ 4480.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.02

End Date:

2016.08.02

Last Calib.:

2016.08.02

Start Time: 07:15:15

End Time:

14:12:15

Time On Btm:

Time Off Btm:

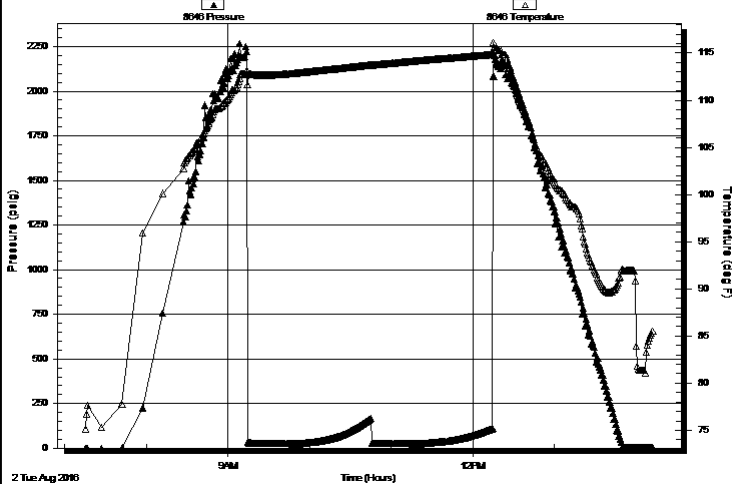
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Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

21-16s-34w Scott Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Priest

Edwards 1 21

Job Ticket: 64593

DST#: 1

Test Start: 2016.08.02 @ 07:15:15

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: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	mud 100%m	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbf

Num Fluid Samples: 0

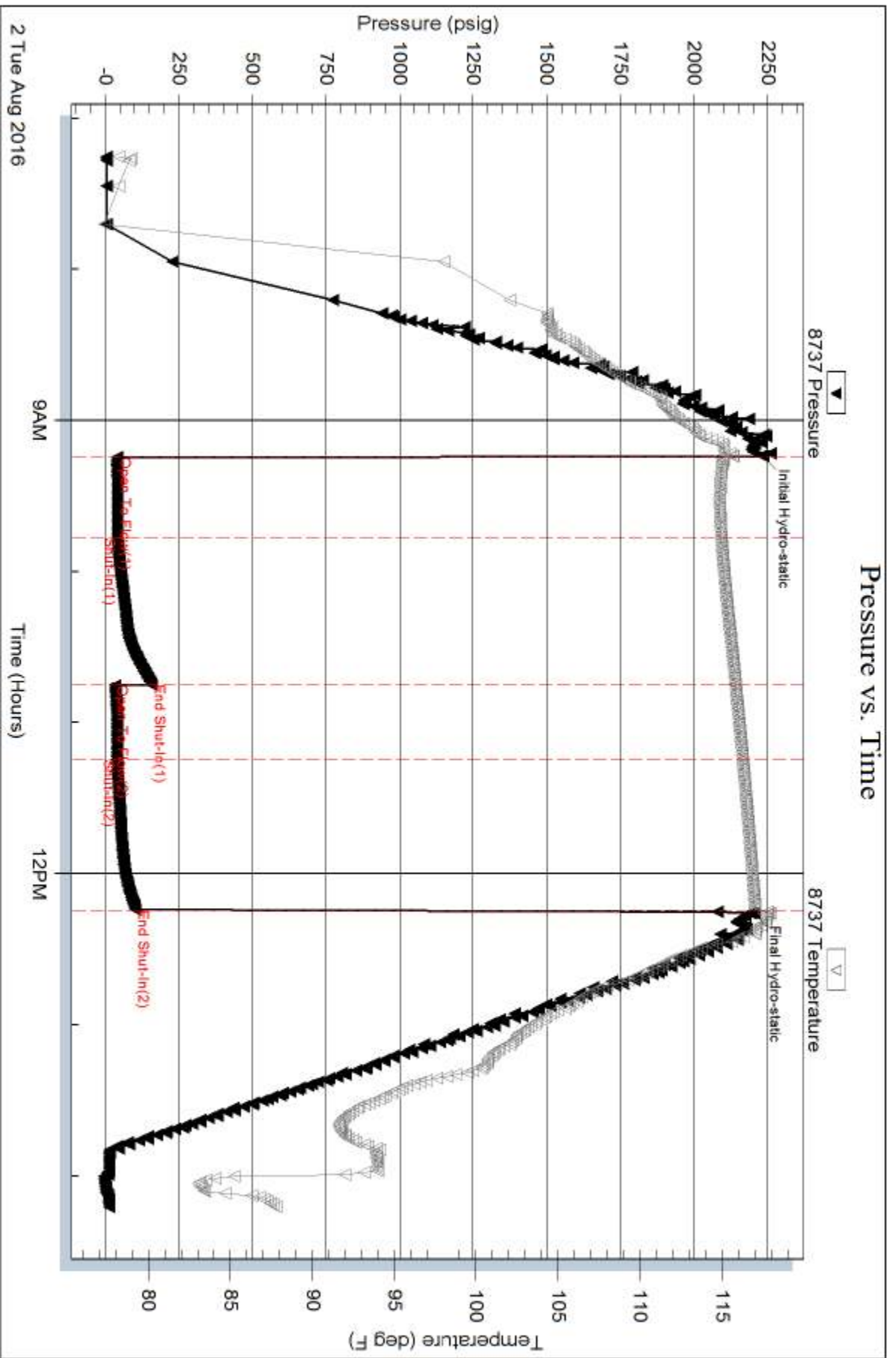
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



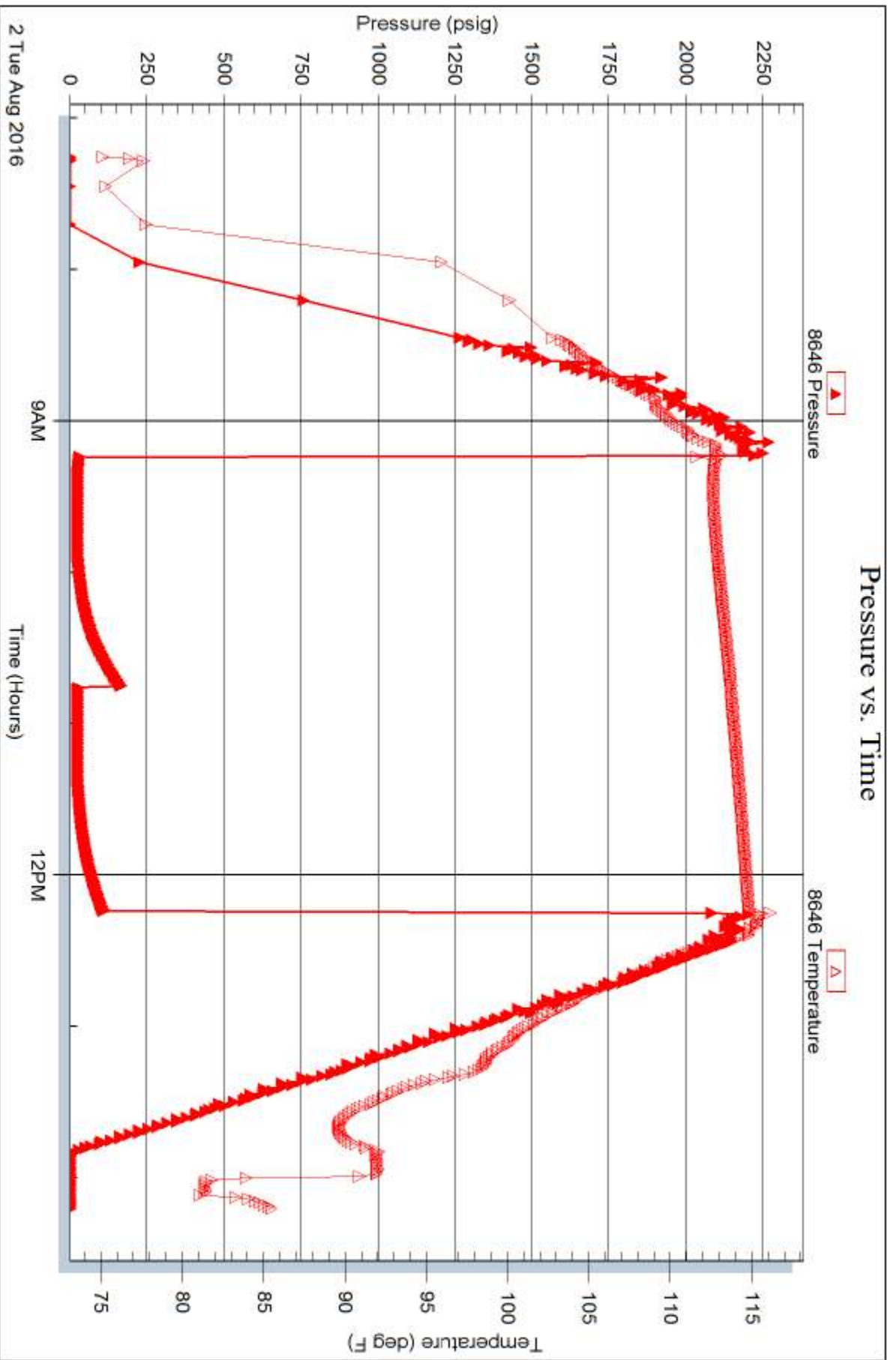
Serial #: 8646

Inside

Shakespeare Oil Company

Edwards 1 21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64593

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