



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: 64595

DST#: 3

Test Start: 2016.08.03 @ 03:09:15

GENERAL INFORMATION:

Formation: **Marmaton B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:47:45

Time Test Ended: 09:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4447.00 ft (KB) To 4505.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4505.00 ft (KB) (TVD)

3132.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: 50.77 psig @ 4450.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.03

End Date:

2016.08.03

Last Calib.:

2016.08.03

Start Time: 03:09:15

End Time:

09:41:15

Time On Btm:

2016.08.03 @ 04:47:15

Time Off Btm:

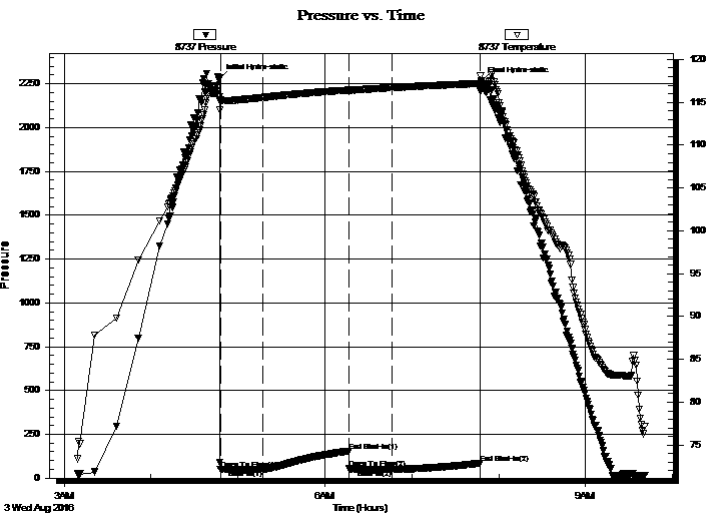
2016.08.03 @ 07:48:00

TEST COMMENT: IF:Weak surface blow that died in 14 min.

IS:No return blow

FF:No blow

FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.93	115.65	Initial Hydro-static
1	52.15	115.03	Open To Flow (1)
30	51.17	115.55	Shut-In(1)
90	152.01	116.40	End Shut-In(1)
90	54.57	116.39	Open To Flow (2)
120	50.77	116.71	Shut-In(2)
180	85.61	117.20	End Shut-In(2)
181	2265.32	117.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud w ith oil in tool	0.35

* Recovery from multiple tests

Gas Rates

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



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Total Depth: 4505.00 ft (KB) (TVD)

3132.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8646 Inside

Press@RunDepth: psig @ 4450.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.03

End Date:

2016.08.03

Last Calib.:

2016.08.03

Start Time: 03:09:15

End Time:

09:41:15

Time On Btm:

Time Off Btm:

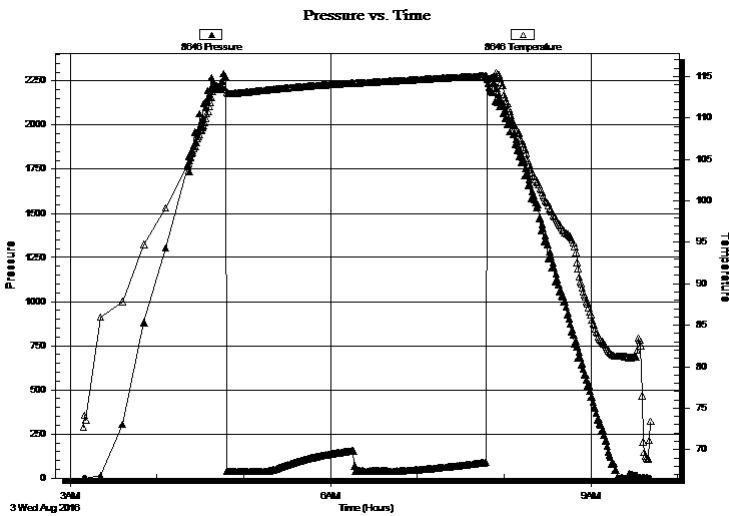
TEST COMMENT: IF:Weak surface blow that died in 14 min.

IS:No return blow

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PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud with oil in tool	0.35

Gas Rates

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

* Recovery from multiple tests



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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: 64595

DST#: 3

Test Start: 2016.08.03 @ 03:09:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
25.00	mud w ith oil in tool	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbf

Num Fluid Samples: 0

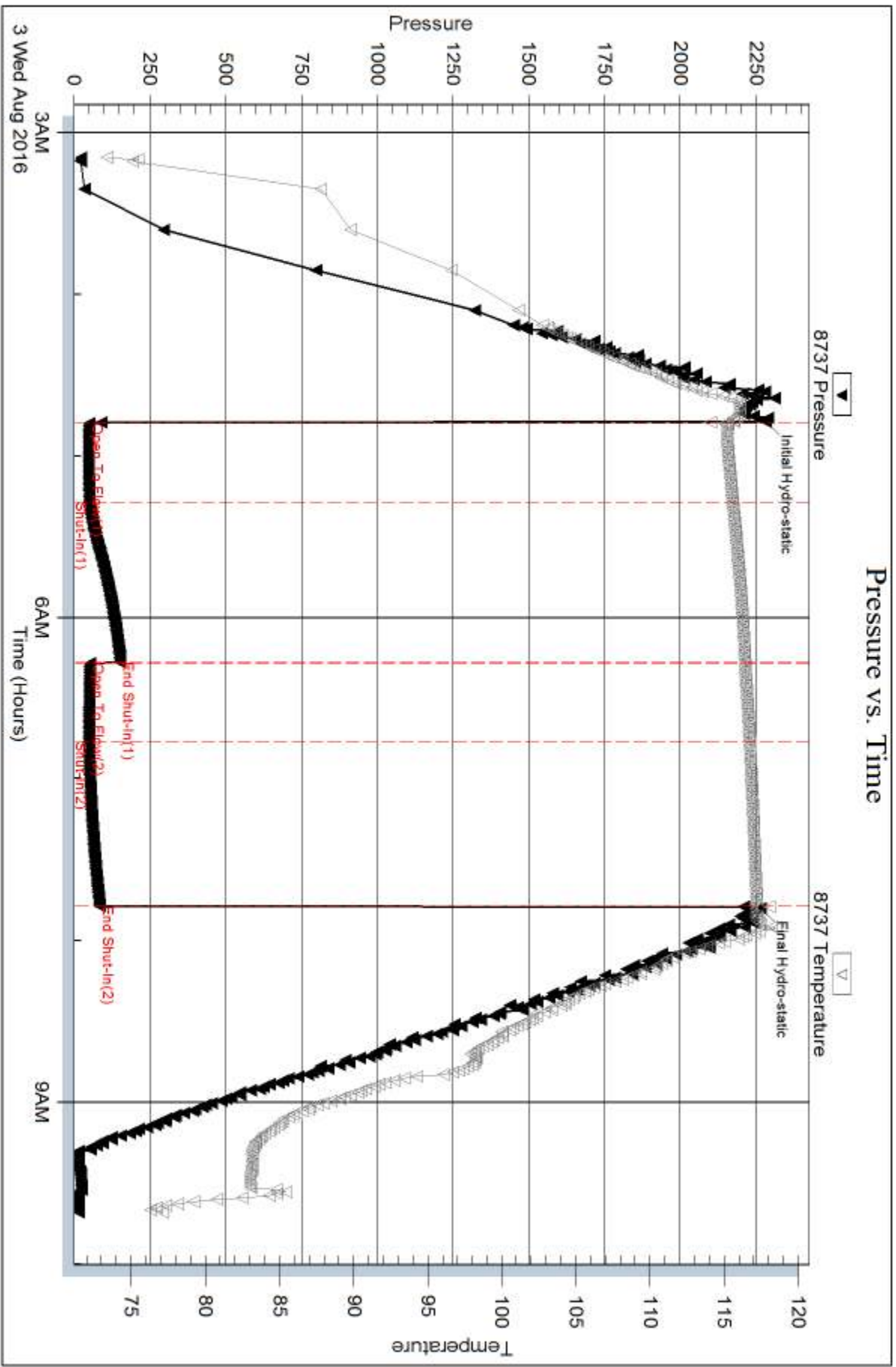
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



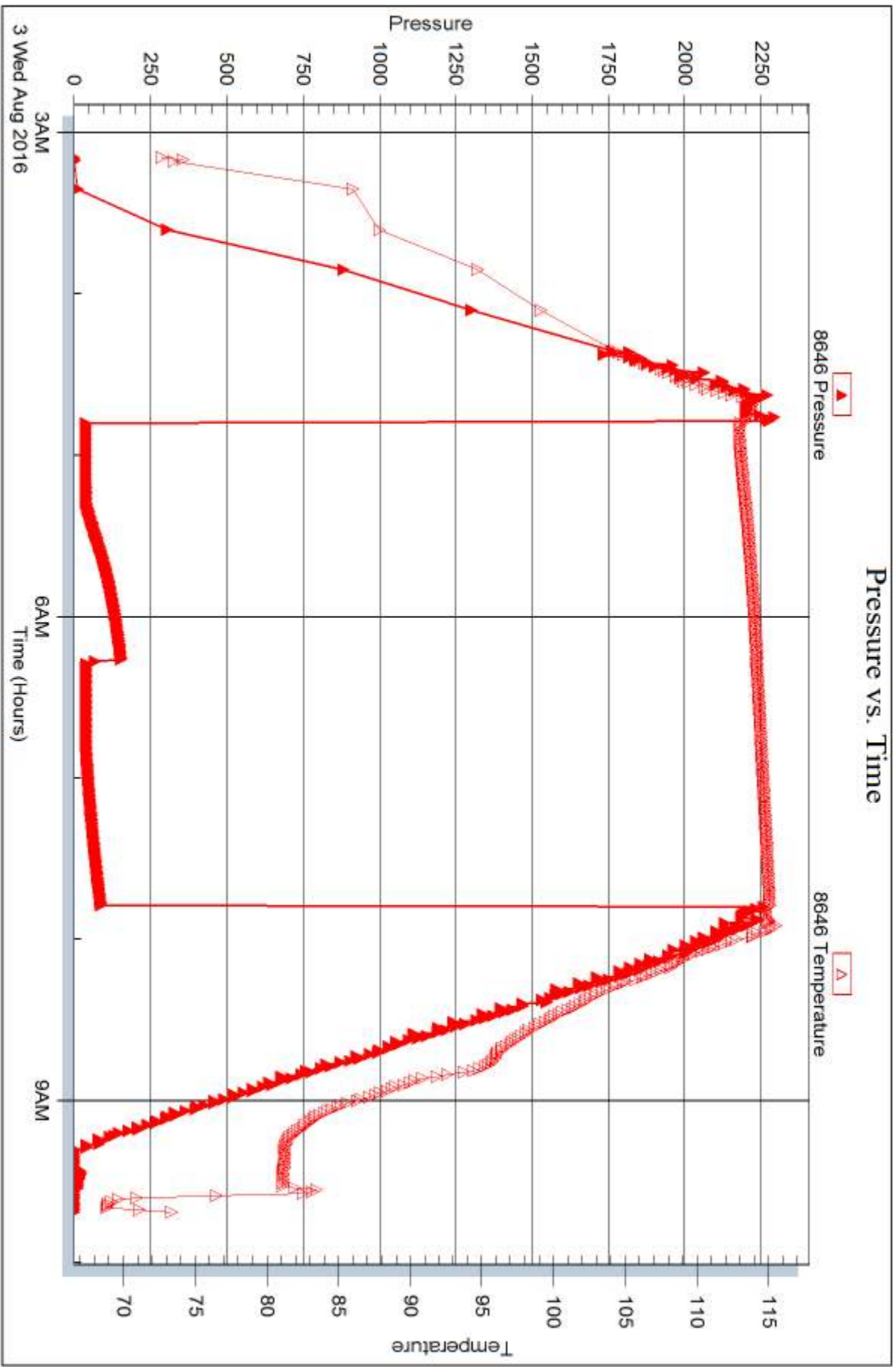
Serial #: 8646

Inside

Shakespeare Oil Company

Edwards 1 21

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64595

Printed: 2016.08.03 @ 10:04:39