



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

4-18s-33w Scott Co. KS

202 W Main St
Salem IL 62881-1519

Pammenter 1-4

Job Ticket: 57010

DST#: 2

ATTN: Tim Priest

Test Start: 2014.05.25 @ 02:38:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:08:15

Time Test Ended: 12:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4676.00 ft (KB) To 4740.00 ft (KB) (TVD)

Reference Elevations: 3034.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

3024.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 123.79 psig @ 4677.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.25 End Date: 2014.05.25

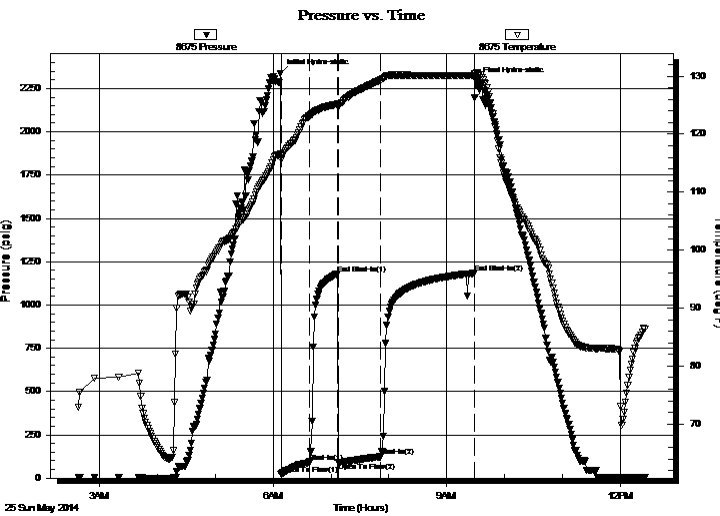
Last Calib.: 2014.05.25

Start Time: 02:38:15 End Time: 12:26:00

Time On Btm: 2014.05.25 @ 06:08:00

Time Off Btm: 2014.05.25 @ 09:31:00

TEST COMMENT: Built to 6" blow
Bled off for 3 min. No return blow
Built to 9 1/2" blow
Bled off for 5 min. Built to 1" return blow, died in 45 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2336.31	116.60	Initial Hydro-static
1	21.40	115.54	Open To Flow (1)
30	89.70	123.07	Shut-In(1)
59	1180.22	125.20	End Shut-In(1)
60	92.32	124.75	Open To Flow (2)
104	123.79	129.34	Shut-In(2)
201	1183.51	130.12	End Shut-In(2)
203	2288.83	130.64	Final Hydro-static

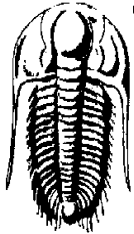
Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 Feet Weak Gas In Pipe	0.00
117.00	gcom 5%G 10%O 85%M	0.58
108.00	ocm 10%O 90%M	1.51

* Recovery from multiple tests

Gas Rates

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



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Time Test Ended: 12:26:00 Unit No: 75

Interval: 4676.00 ft (KB) To 4740.00 ft (KB) (TVD) Reference Elevations: 3034.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD) 3024.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8650

Outside

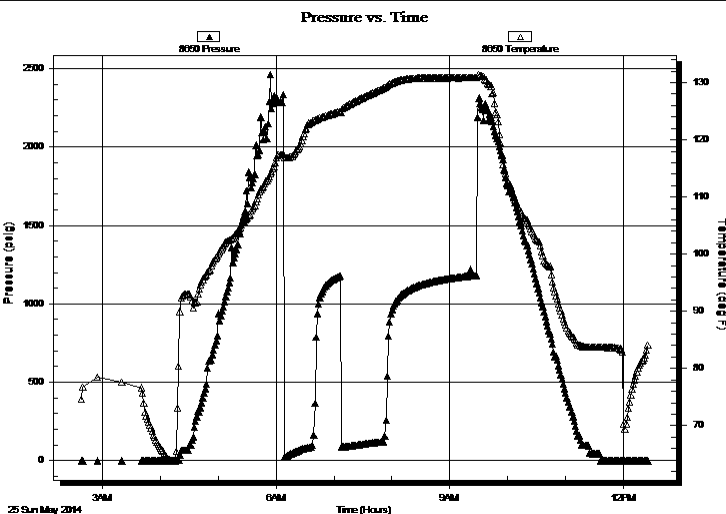
Press@RunDepth: psig @ 4677.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2014.05.25 End Date: 2014.05.25 Last Calib.: 2014.05.25

Start Time: 02:38:15 End Time: 12:25:45 Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 6" blow
Bled off for 3 min. No return blow
Built to 9 1/2" blow
Bled off for 5 min. Built to 1" return blow, died in 45 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 Feet Weak Gas In Pipe	0.00
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Gas Rates

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

* Recovery from multiple tests



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TESTING, INC.**

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FLUID SUMMARY

Shakespeare Oil Company, Inc.

4-18s-33w Scott Co. KS

202 W Main St
Salem IL 62881-1519

Pammenter 1-4

Job Ticket: 57010

DST#: 2

ATTN: Tim Priest

Test Start: 2014.05.25 @ 02:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	200 Feet Weak Gas In Pipe	0.000
117.00	gcom 5%G 10%O 85%M	0.575
108.00	ocm 10%O 90%M	1.508

Total Length: 225.00 ft Total Volume: 2.083 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

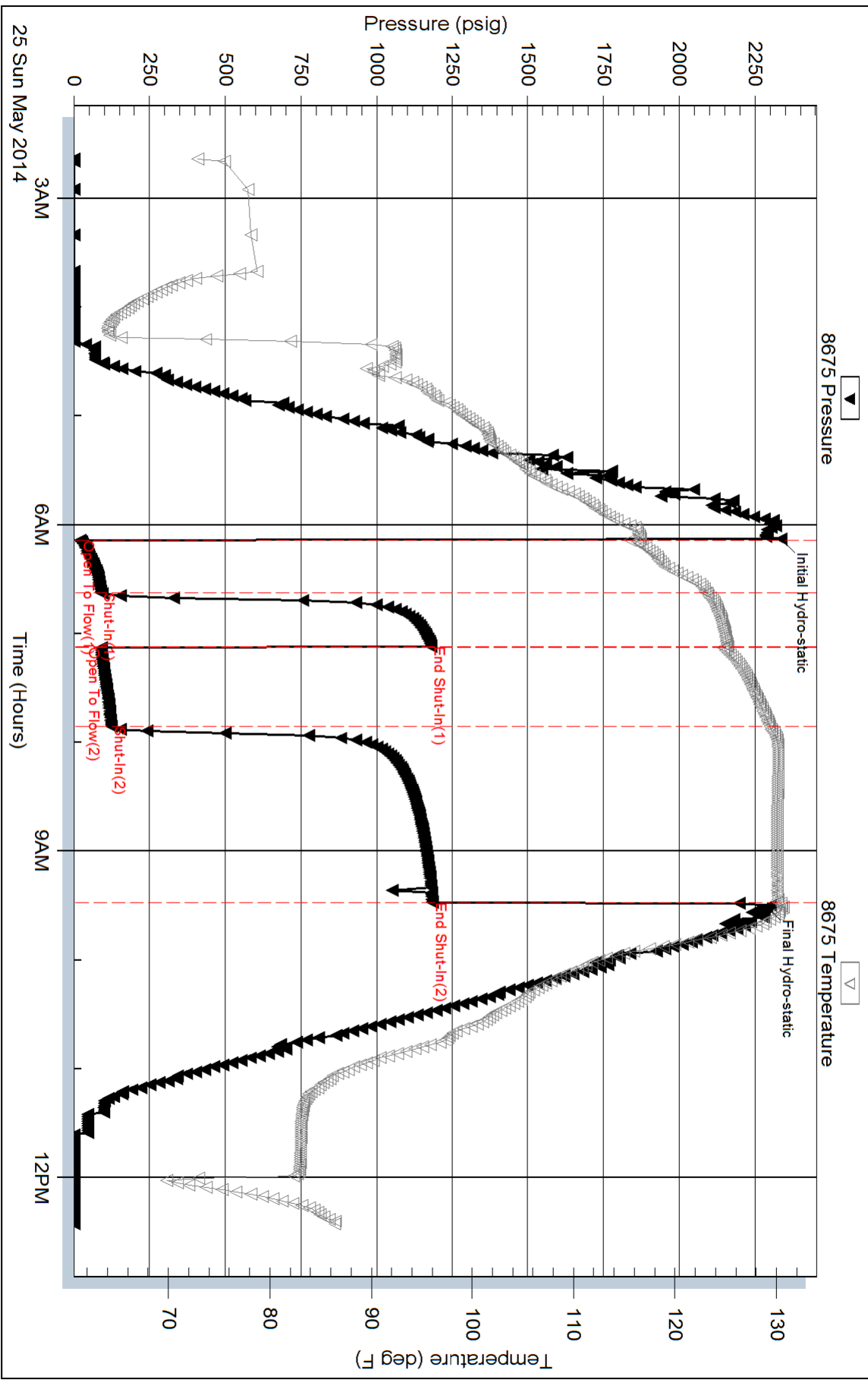
Inside

Shakespeare Oil Company, Inc.

Panmenter 1-4

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57010

Printed: 2014.05.25 @ 16:18:49

Serial #: 8650

Outside Shakespeare Oil Company, Inc.

Panmenter 1-4

DST Test Number: 2

