



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc
 202 W Main ST
 Salem IL, 62881 - 1519
 ATTN: Tim Priest

14-14s-32w Logan Co, KS

Ottley #6-14

Job Ticket: 57032

DST#: 3

Test Start: 2014.07.11 @ 18:40:00

GENERAL INFORMATION:

Formation: **Kansas City "H" Zone**

Deviated: No Whipstock: 42.00 ft (KB)

Time Tool Opened: 20:46:30

Time Test Ended: 02:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: **3974.00 ft (KB) To 4010.00 ft (KB) (TVD)**

Total Depth: 4010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2818.00 ft (KB)

2808.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 176.89 psig @ 3975.00 ft (KB)

Start Date: 2014.07.11

End Date:

2014.07.12

Start Time: 18:40:15

End Time:

02:08:30

Capacity: 8000.00 psig

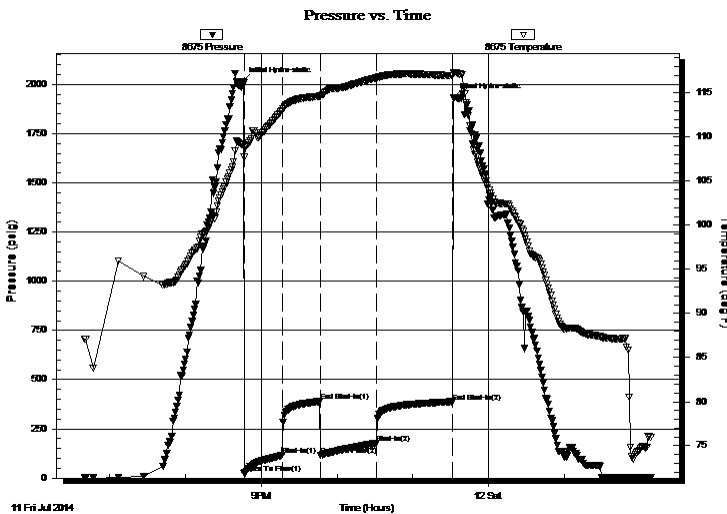
Last Calib.: 2014.07.12

Time On Btm: 2014.07.11 @ 20:45:30

Time Off Btm: 2014.07.11 @ 23:32:00

TEST COMMENT: B.O.B. in 26 min.
 Bled off for 5 min. No return blow
 B.O.B. in 43 min.
 Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.64	109.16	Initial Hydro-static
1	23.21	107.69	Open To Flow (1)
31	114.79	113.04	Shut-In(1)
61	389.03	114.63	End Shut-In(1)
62	116.78	114.57	Open To Flow (2)
106	176.89	116.70	Shut-In(2)
166	387.96	116.93	End Shut-In(2)
167	1932.23	117.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
238.00	100% Water	2.91
92.00	mcw 50%M 50%W	1.29

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

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14-14s-32w Logan Co, KS

202 W Main ST
Salem IL, 62881 - 1519

Ottley #6-14

Job Ticket: 57032

DST#: 3

ATTN: Tim Priest

Test Start: 2014.07.11 @ 18:40:00

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:

42000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
238.00	100% Water	2.909
92.00	mcw 50%M 50%W	1.291

Total Length: 330.00 ft Total Volume: 4.200 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .18 @ 75 F = 42,000

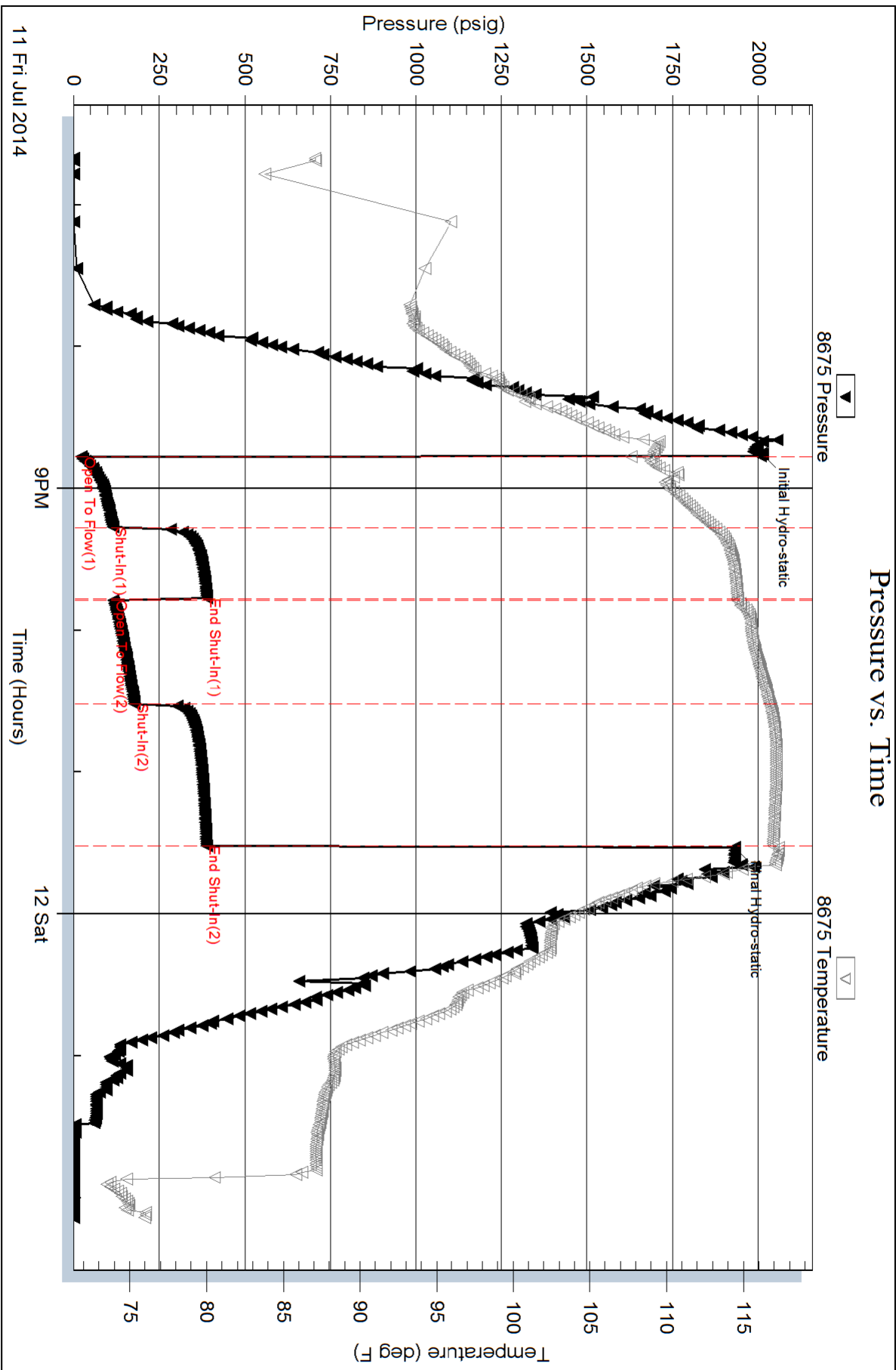
Serial #: 8675

Inside

Shakespeare Oil Company, Inc

Ottley #6-14

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 57032

Printed: 2014.07.12 @ 06:47:39