



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc

14-14s-32w Logan Co, KS

202 W Main ST
Salem IL, 62881 - 1519

Ottley #6-14

Job Ticket: 57031

DST#: 2

ATTN: Tim Priest

Test Start: 2014.07.10 @ 18:00:00

GENERAL INFORMATION:

Formation: **Kansas City "D"**

Deviated: No Whipstock: 42.00 ft (KB)

Time Tool Opened: 20:33:30

Time Test Ended: 02:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 3891.00 ft (KB) To 3916.00 ft (KB) (TVD)

Total Depth: 3916.00 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: 145.56 psig @ 3892.00 ft (KB)

Start Date: 2014.07.10

End Date:

2014.07.11

Start Time: 18:00:15

End Time:

02:21:00

Capacity: 8000.00 psig

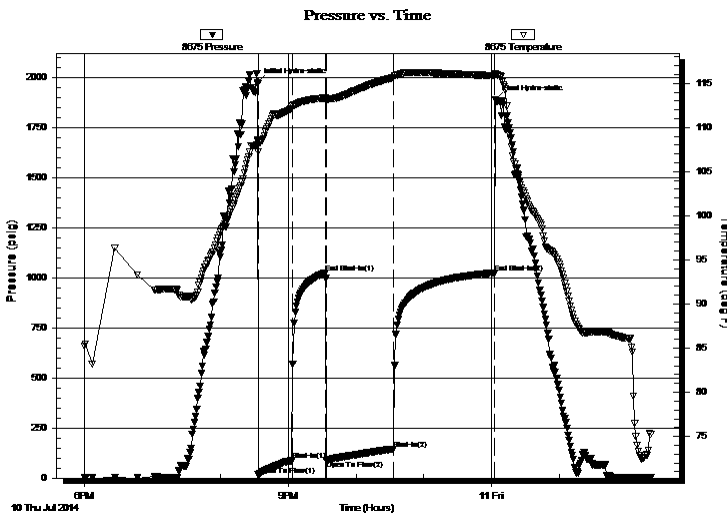
Last Calib.: 2014.07.11

Time On Btm: 2014.07.10 @ 20:32:45

Time Off Btm: 2014.07.11 @ 00:03:15

TEST COMMENT: Built to 6 1/2" blow
Bled off for 5 min. No return blow
Built to 10" blow
Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.65	108.48	Initial Hydro-static
1	16.26	107.22	Open To Flow (1)
31	87.32	112.18	Shut-In(1)
61	1024.74	113.35	End Shut-In(1)
61	89.64	112.97	Open To Flow (2)
121	145.56	115.66	Shut-In(2)
210	1024.29	115.88	End Shut-In(2)
211	1887.61	116.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	100% Water	2.05
111.00	mcw with oil scum 30%M 70%W	1.56

Gas Rates

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

* Recovery from multiple tests



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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: 57031

DST#: 2

ATTN: Tim Priest

Test Start: 2014.07.10 @ 18:00:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	100% Water	2.054
111.00	mcw with oil scum 30%M 70%W	1.557

Total Length: 288.00 ft Total Volume: 3.611 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .18 @ 70 F = 40,000

Serial #: 8675

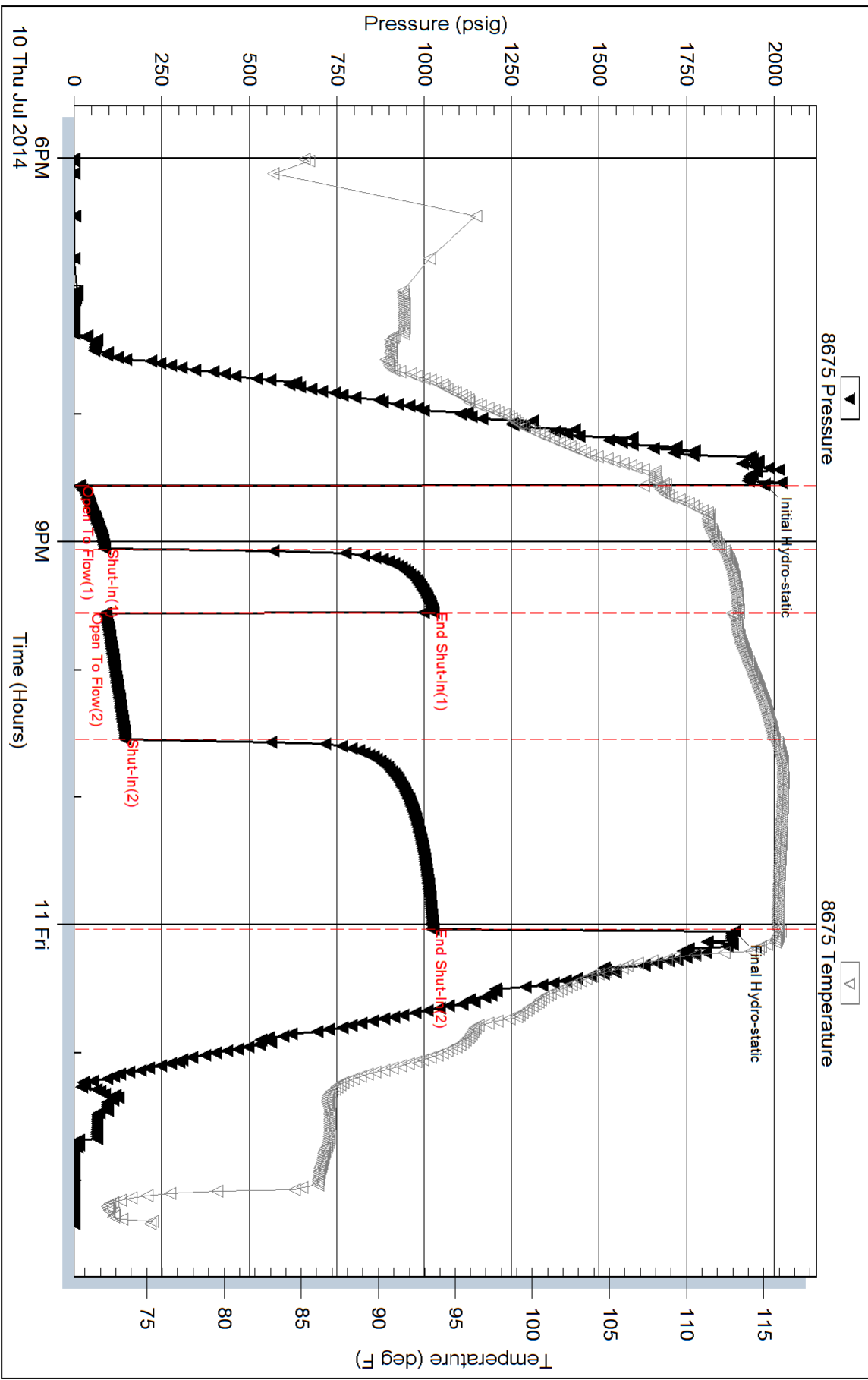
Inside

Shakespeare Oil Company, Inc

Ottley #8-14

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57031

Printed: 2014.07.11 @ 06:56:07