



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

GENERAL INFORMATION:

Formation: **LKC " B - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:40

Time Test Ended: 16:04:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4014.00 ft (KB) To 4055.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4055.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ RunDepth: 807.98 psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.07

End Date:

2013.04.07

Last Calib.:

2013.04.07

Start Time: 08:50:00

End Time:

16:04:54

Time On Btm:

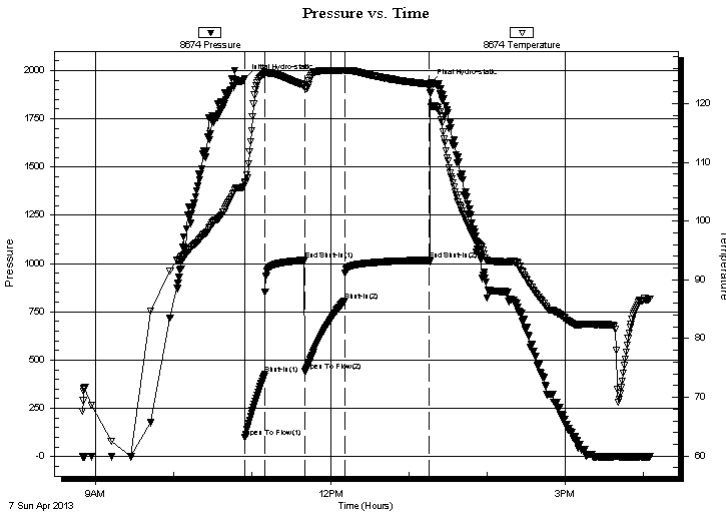
2013.04.07 @ 10:54:10

Time Off Btm:

2013.04.07 @ 13:16:24

TEST COMMENT: IF- Surface Blow Built to BOB in 2 1/4min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.38	106.73	Initial Hydro-static
1	101.54	106.43	Open To Flow (1)
16	426.99	125.06	Shut-In(1)
46	1016.61	123.07	End Shut-In(1)
47	440.51	122.70	Open To Flow (2)
77	807.98	125.60	Shut-In(2)
142	1018.01	123.28	End Shut-In(2)
143	1929.50	123.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1049.00	MCW 3%m 97%w	13.63
186.00	MCW 5%m 95%w	2.61
248.00	MCW 21%m 79%w	3.48
315.00	MCW 49%m 51%w	4.42

Gas Rates

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



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FLUID SUMMARY

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Rudolph # 1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

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:

44000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 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 bbbl
1049.00	MCW 3% <i>m</i> 97% <i>w</i>	13.631
186.00	MCW 5% <i>m</i> 95% <i>w</i>	2.609
248.00	MCW 21% <i>m</i> 79% <i>w</i>	3.479
315.00	MCW 49% <i>m</i> 51% <i>w</i>	4.419

Total Length: 1798.00 ft Total Volume: 24.138 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .165 @ 68f = 44000

Serial #: 8674

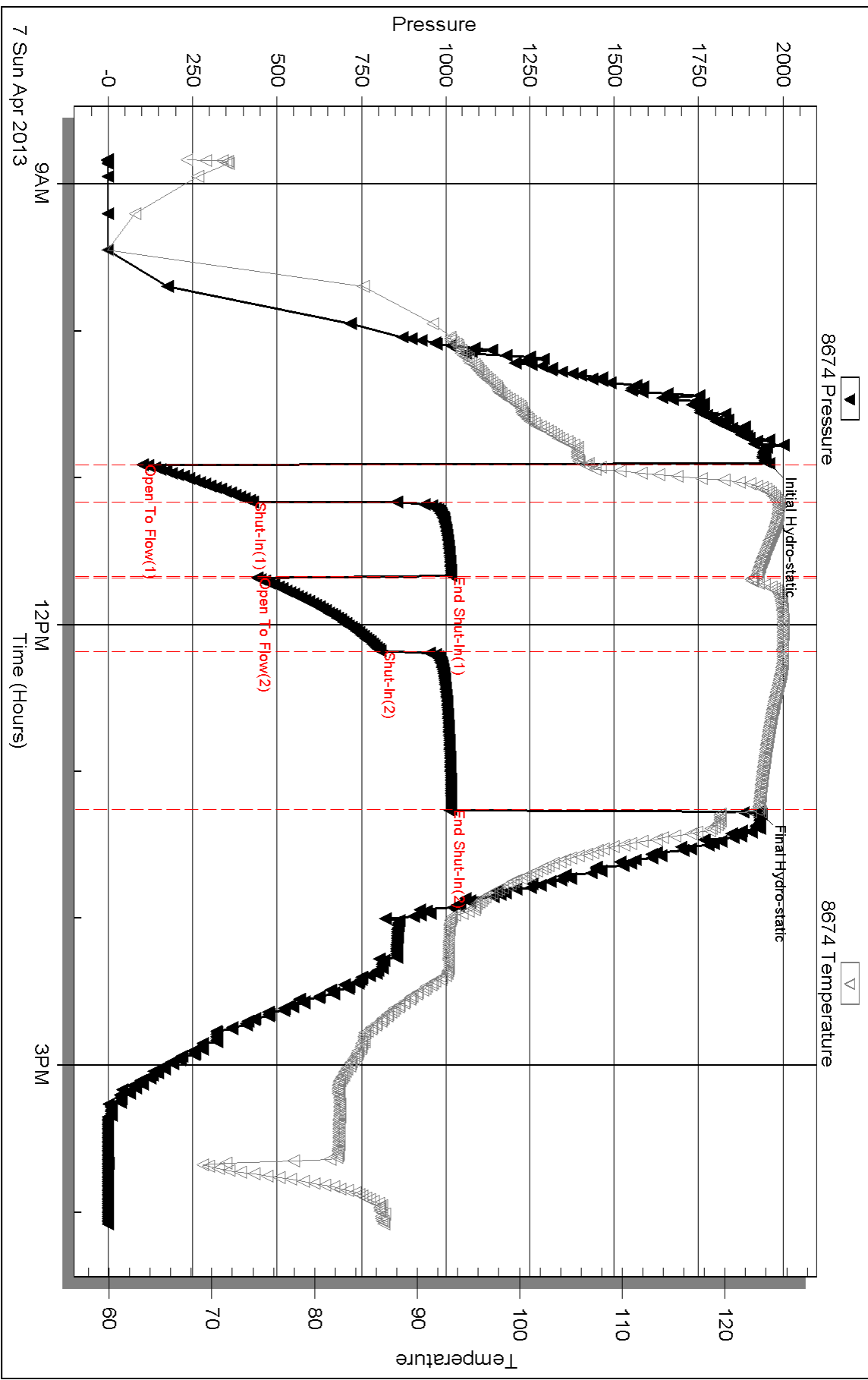
Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49228

Printed: 2013.04.09 @ 09:01:46