



**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: 49229

**DST#: 2**

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

## GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:09:10

Time Test Ended: 17:49:54

Test Type: Conventional Straddle (Reset)

Tester: Will MacLean

Unit No: 58

**Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)**

Total Depth: 4100.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8674**

**Inside**

Press @ Run Depth: 134.92 psig @ 4069.00 ft (KB)

Start Date: 2013.04.08

End Date:

2013.04.08

Start Time: 10:04:00

End Time:

17:49:54

Capacity: 8000.00 psig

Last Calib.: 2013.04.08

Time On Btm: 2013.04.08 @ 12:08:40

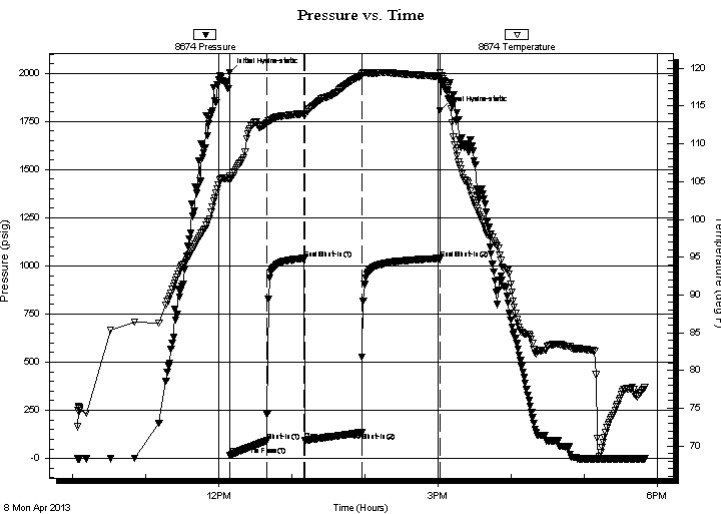
Time Off Btm: 2013.04.08 @ 15:01:39

**TEST COMMENT:** IF- Weak Surface Blow Built to 4"

IS- No Blow

FF- Weak Surface Blow Built to 1 1/4"

FS- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.68	105.71	Initial Hydro-static
1	15.55	105.25	Open To Flow (1)
31	91.79	112.68	Shut-In(1)
62	1038.96	114.00	End Shut-In(1)
62	93.76	113.76	Open To Flow (2)
109	134.92	119.05	Shut-In(2)
173	1038.50	118.94	End Shut-In(2)
173	1807.00	119.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

\* Recovery from multiple tests

## Gas Rates

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



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**22-17s-33w Scott Co. KS**  
**Rudolph # 1-22**  
Job Ticket: 49229 **DST#: 2**  
Test Start: 2013.04.08 @ 10:04:00

## GENERAL INFORMATION:

Formation: **LKC " D "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:09:10  
Time Test Ended: 17:49:54  
**Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)**  
Total Depth: 4100.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Straddle (Reset)  
Tester: Will MacLean  
Unit No: 58  
Reference Elevations: 3033.00 ft (KB)  
3025.00 ft (CF)  
KB to GR/CF: 8.00 ft

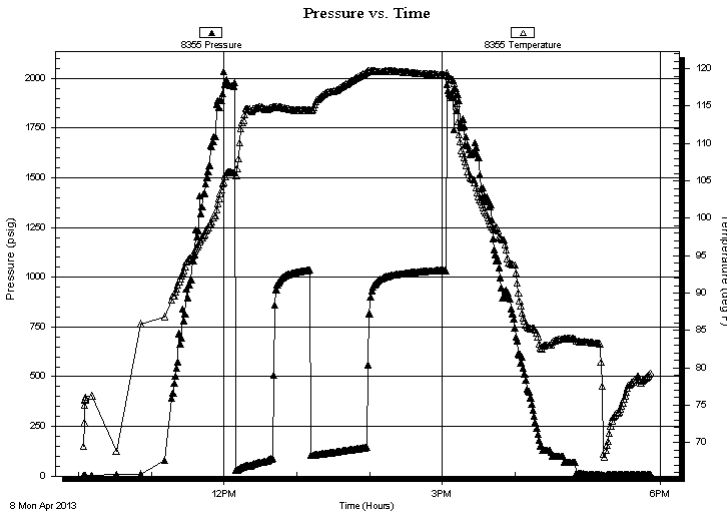
## Serial #: 8355

**Outside**

Press @ Run Depth: psig @ 4069.00 ft (KB)  
Start Date: 2013.04.08 End Date: 2013.04.08  
Start Time: 10:04:05 End Time: 17:51:44  
Capacity: 8000.00 psig  
Last Calib.: 2013.04.08  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF- Weak Surface Blow Built to 4"  
IS- No Blow  
FF- Weak Surface Blow Built to 1 1/4"  
FS- No Blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc  
 202 W Main St.  
 Salem IL 62881  
 ATTN: Tim Priest

**22-17s-33w Scott Co. KS**  
**Rudolph # 1-22**  
 Job Ticket: 49229 **DST#: 2**  
 Test Start: 2013.04.08 @ 10:04:00

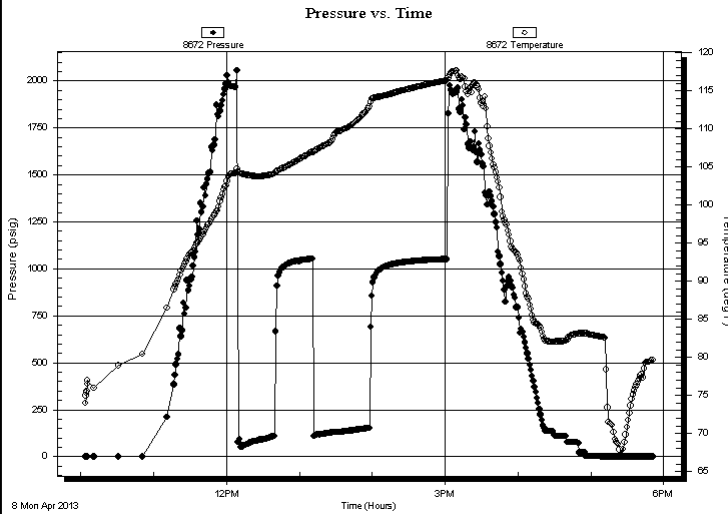
## GENERAL INFORMATION:

Formation: **LKC " D "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: 12:09:10 Tester: Will MacLean  
 Time Test Ended: 17:49:54 Unit No: 58  
**Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)** Reference Elevations: 3033.00 ft (KB)  
 Total Depth: 4100.00 ft (KB) (TVD) 3025.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

## Serial #: 8672

Press @ RunDepth: psig @ 4097.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.04.08 End Date: 2013.04.08 Last Calib.: 2013.04.08  
 Start Time: 10:04:05 End Time: 17:51:29 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF- Weak Surface Blow Built to 4"  
 IS- No Blow  
 FF- Weak Surface Blow Built to 1 1/4"  
 FS- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co. Inc

**22-17s-33w Scott Co. KS**

202 W Main St.  
Salem IL 62881

**Rudolph # 1-22**

Job Ticket: 49229

**DST#: 2**

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

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 bbf
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.590
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.313
60.00	OWCM 8%oil 34%w 58%m	0.842
82.00	OWCM 12%oil 20%w 68%m	1.150
40.00	Oil 100%	0.561

Total Length: 362.00 ft      Total Volume: 3.456 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .207 @ 73f = 34000

API is 22 @ 70f = 21

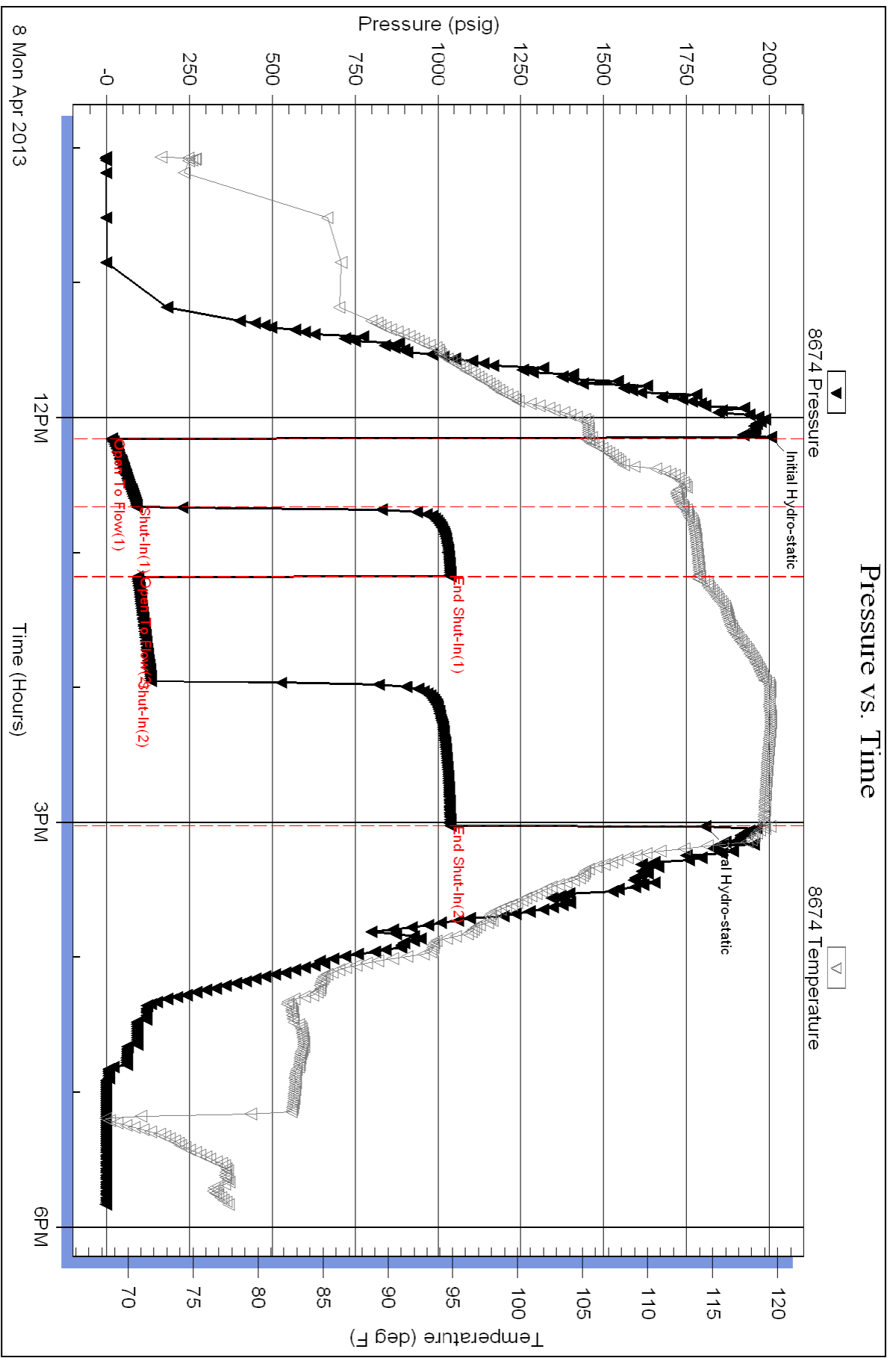
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 2



Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 2

