



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1089593  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1089593

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zerr Trust 3-23
Doc ID	1089593

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zerr Trust 3-23
Doc ID	1089593

Tops

Name	Top	Datum
Base Anhydrite	2373	+501
Heebner	3891	-1017
Lansing	3935	-1061
Muncie Creek	4088	-1215
Stark Shale	4172	-1298
Hushpuckney	4209	-1335
BKC	4245	-1371
Pawnee	4374	-1500
L. Cherokee Shale	4462	-1588
Johnson	4508	-1634
Mississippian	4552	-1678



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48363

**DST#: 1**

ATTN: Tim Priest

Test Start: 2012.07.22 @ 12:55:08

## GENERAL INFORMATION:

Formation: **Lansing B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:03:23

Time Test Ended: 19:08:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

**Interval: 3960.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 2871.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 92.05 psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.22

End Date:

2012.07.22

Last Calib.:

2012.07.22

Start Time: 12:55:13

End Time:

19:08:37

Time On Btm:

2012.07.22 @ 15:01:53

Time Off Btm:

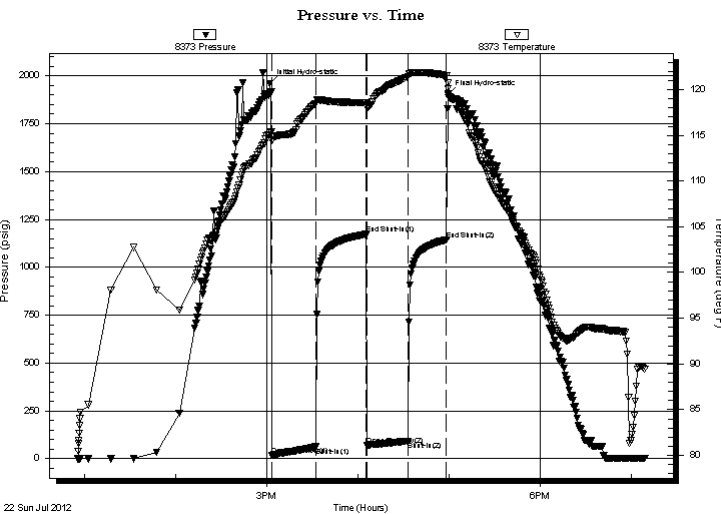
2012.07.22 @ 16:59:08

**TEST COMMENT:** IF: 1/4 blow died in 14 min.

IS: No return.

FF: No blow.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.18	115.23	Initial Hydro-static
2	17.88	114.44	Open To Flow (1)
30	62.50	118.47	Shut-In(1)
64	1172.42	118.57	End Shut-In(1)
64	72.11	118.02	Open To Flow (2)
91	92.05	121.39	Shut-In(2)
117	1143.96	121.52	End Shut-In(2)
118	1900.06	120.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
40.00	mcw 70%w 30%m	0.56

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48363

**DST#: 1**

ATTN: Tim Priest

Test Start: 2012.07.22 @ 12:55:08

### GENERAL INFORMATION:

Formation: **Lansing B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:03:23

Time Test Ended: 19:08:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

**Interval: 3960.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 2871.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8356** Outside

Press @ Run Depth: psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.22 End Date: 2012.07.22

Last Calib.: 2012.07.22

Start Time: 12:55:31 End Time: 19:08:55

Time On Btm:

Time Off Btm:

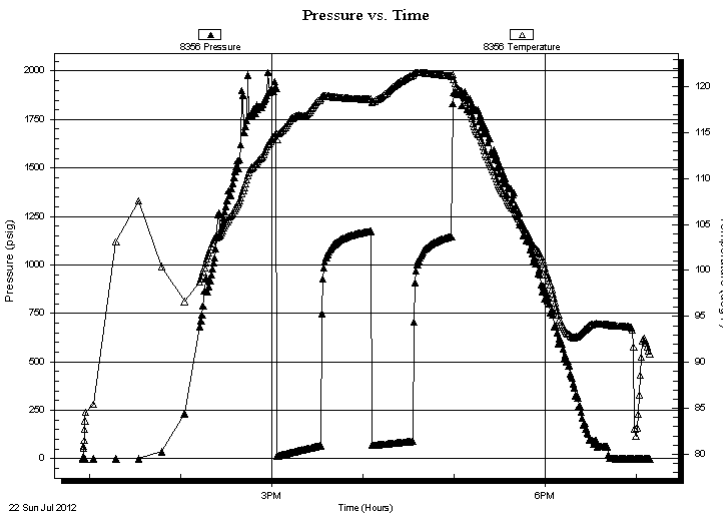
TEST COMMENT: IF: 1/4 blow died in 14 min.

IS: No return.

FF: No blow.

FS: No return.

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
40.00	mcw 70%w 30%m	0.56

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48363

**DST#: 1**

ATTN: Tim Priest

Test Start: 2012.07.22 @ 12:55:08

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	mcw 90%w 10%m	0.610
40.00	mcw 70%w 30%m	0.561

Total Length: 164.00 ft      Total Volume: 1.171 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .14@104=32000

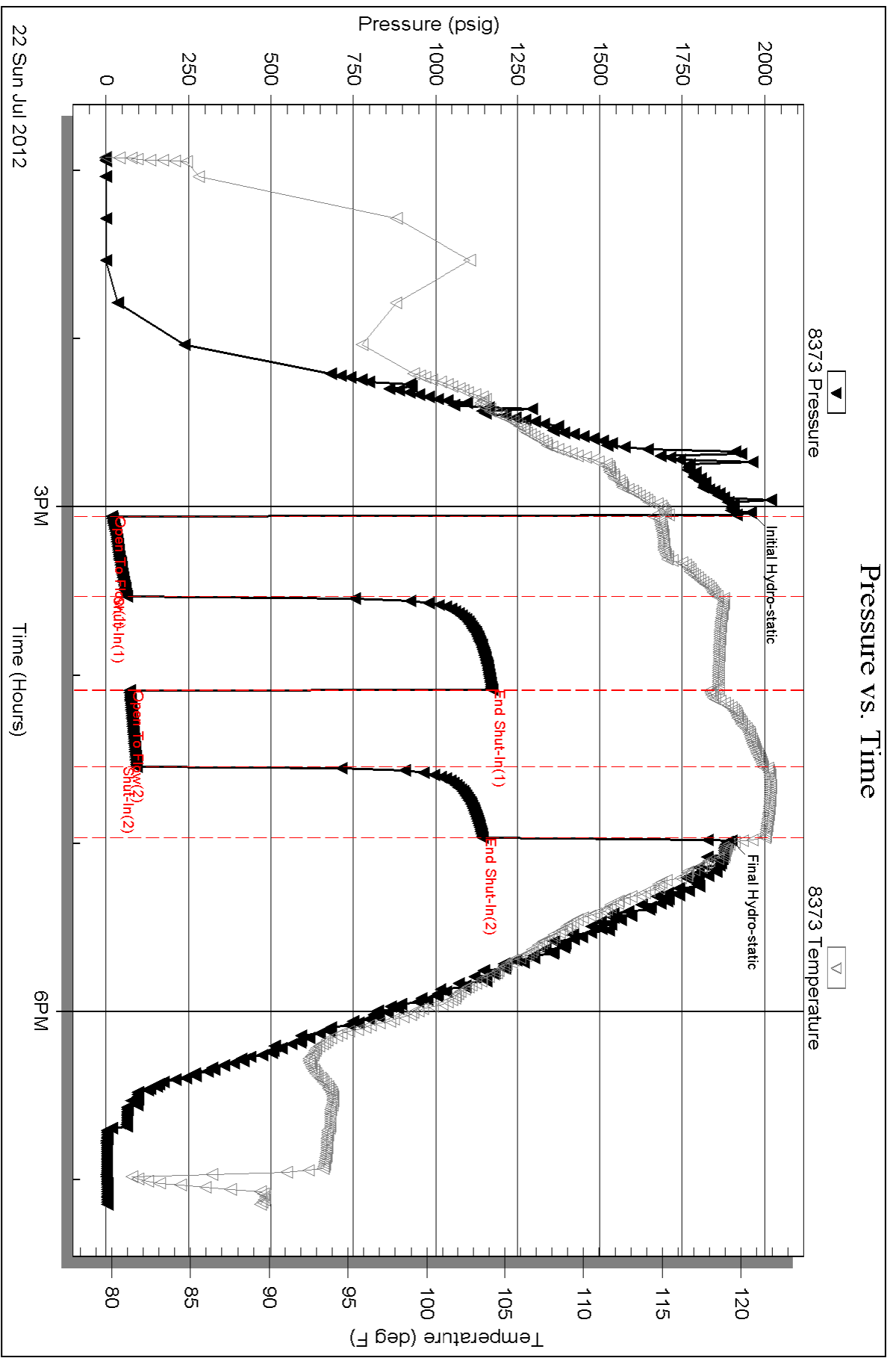
Serial #: 8373

Inside

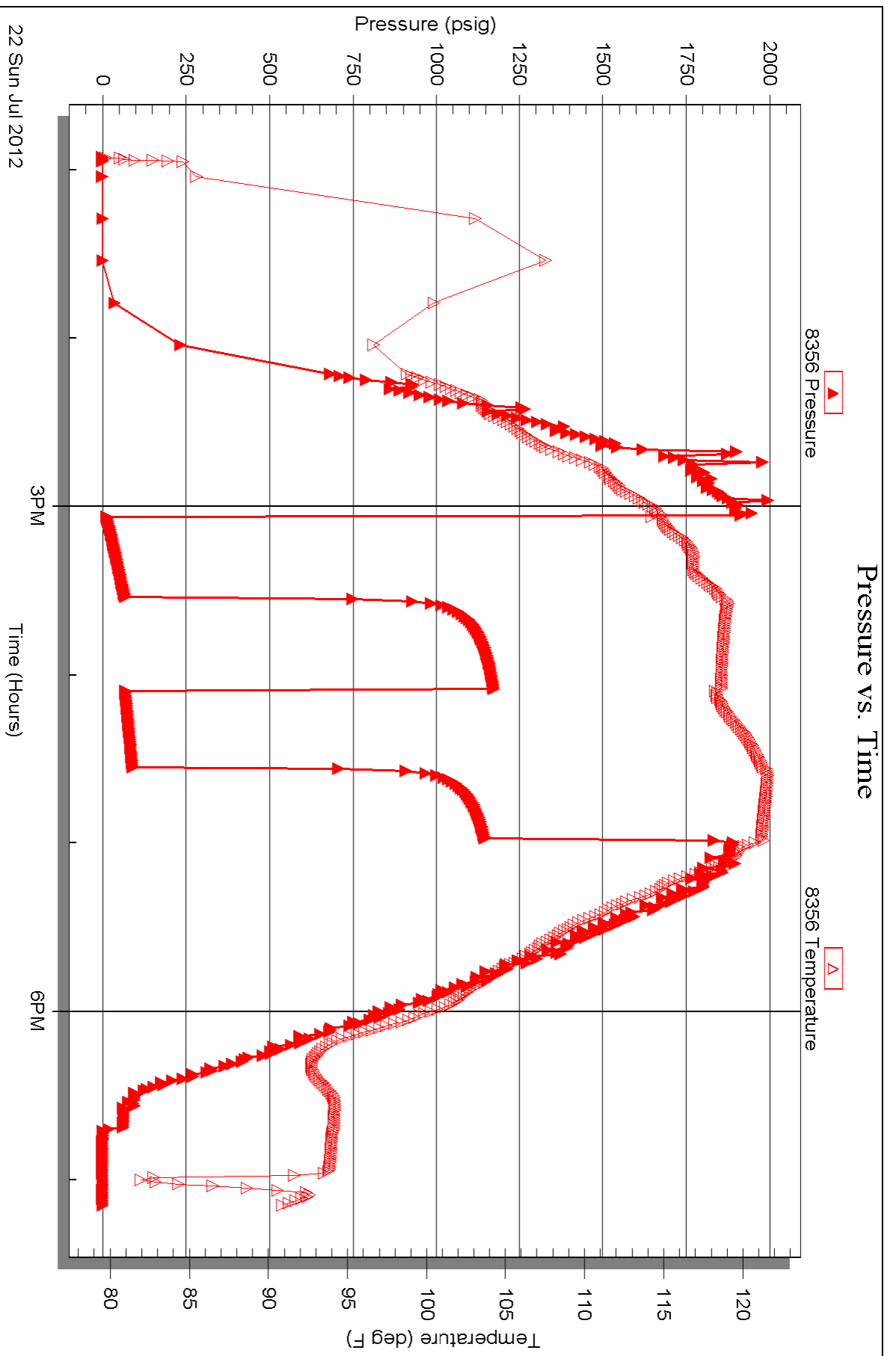
Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 1









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48364

**DST#: 2**

ATTN: Tim Priest

Test Start: 2012.07.23 @ 07:26:31

## GENERAL INFORMATION:

Formation: **D-E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:14:16

Time Test Ended: 13:17:16

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4007.00 ft (KB) To 4030.00 ft (KB) (TVD)**

Reference Elevations: 2871.00 ft (KB)

Total Depth: 4030.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 21.51 psig @ 4012.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.23

End Date:

2012.07.23

Last Calib.: 2012.07.23

Start Time: 07:26:36

End Time:

13:17:15

Time On Btm: 2012.07.23 @ 09:13:16

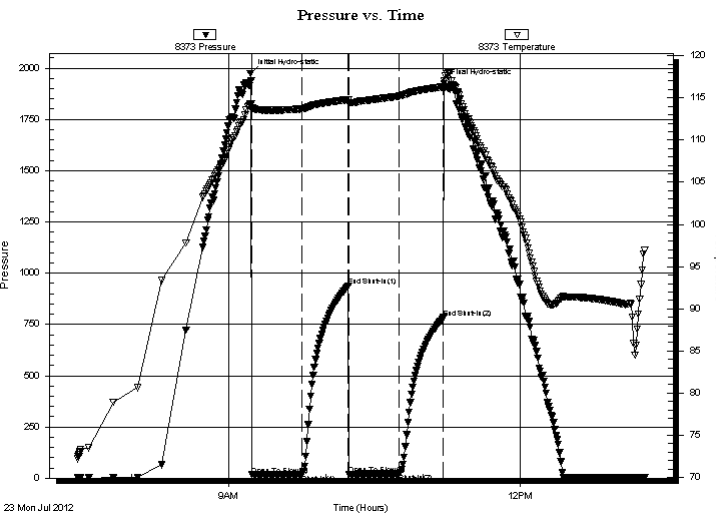
Time Off Btm: 2012.07.23 @ 11:13:01

**TEST COMMENT:** IF: Weak blow died in 6 min.

IS: No return.

FF: No blow.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.70	114.27	Initial Hydro-static
1	16.11	113.62	Open To Flow (1)
32	19.70	113.70	Shut-In(1)
61	937.65	114.81	End Shut-In(1)
61	19.37	114.36	Open To Flow (2)
92	21.51	115.20	Shut-In(2)
120	783.55	116.32	End Shut-In(2)
120	1924.23	116.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48364

**DST#: 2**

ATTN: Tim Priest

Test Start: 2012.07.23 @ 07:26:31

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

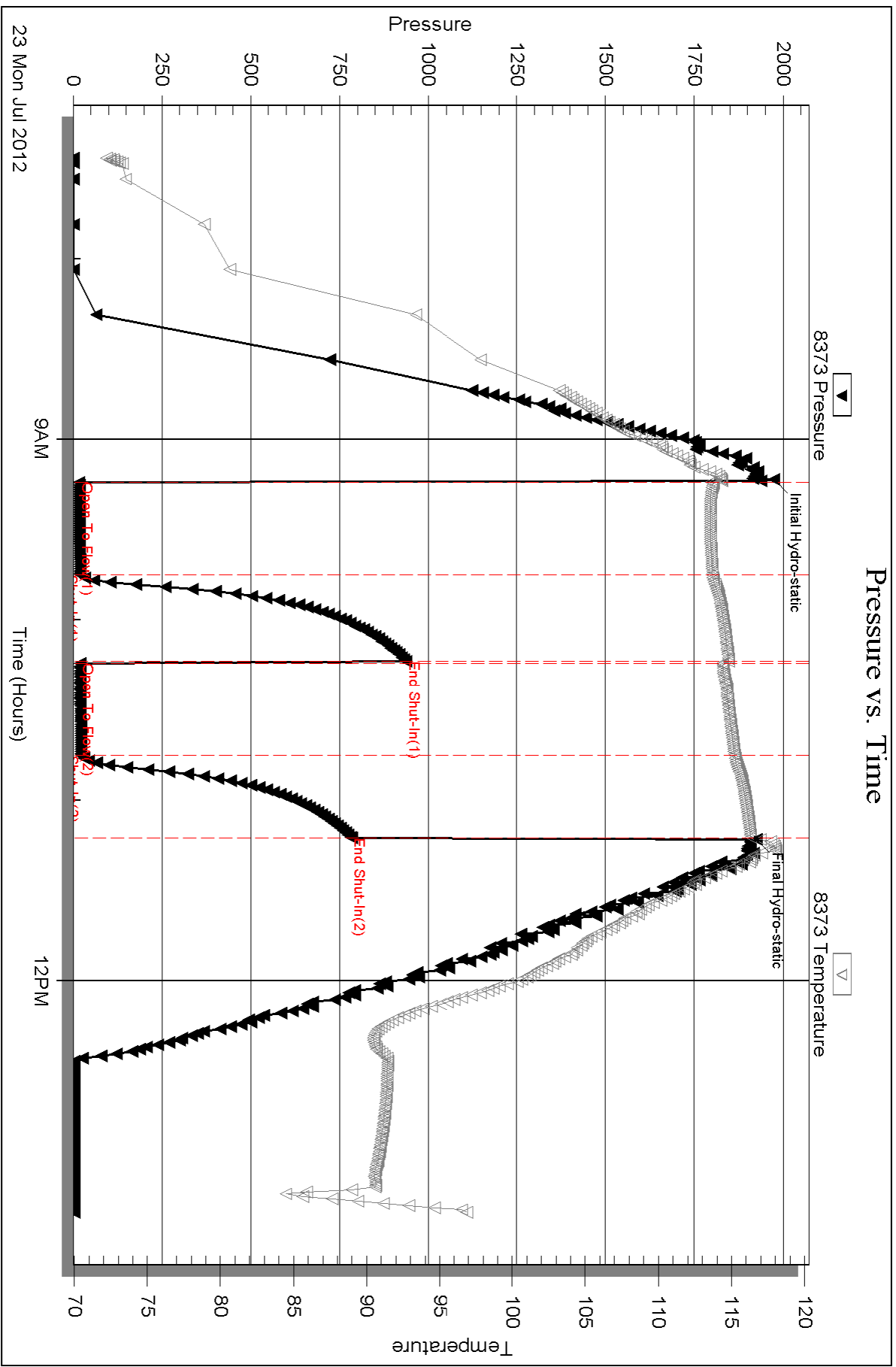
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

ATTN: Tim Priest

Job Ticket: 48365

**DST#: 3**

Test Start: 2012.07.24 @ 02:24:41

## GENERAL INFORMATION:

Formation: **H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:36:11  
 Time Test Ended: 08:29:11  
 Interval: **4090.00 ft (KB) To 4120.00 ft (KB) (TVD)**  
 Total Depth: 4120.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2871.00 ft (KB)  
 2864.00 ft (CF)  
 KB to GR/CF: 7.00 ft

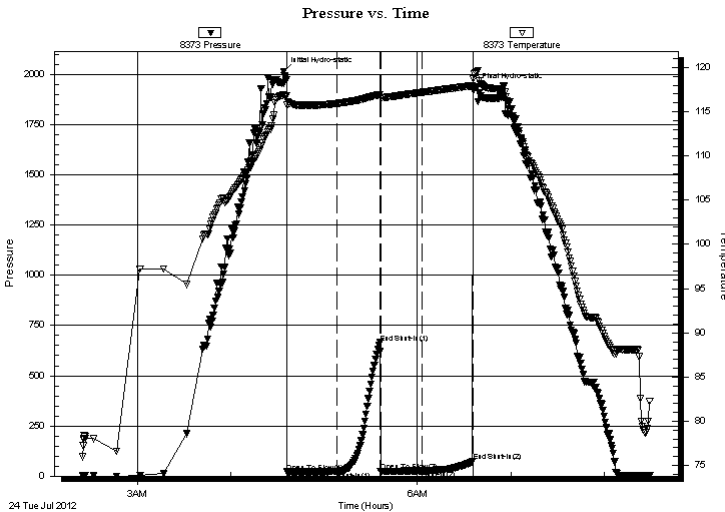
## Serial #: 8373

Inside

Press @ Run Depth: 26.73 psig @ 4096.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.07.24 End Date: 2012.07.24 Last Calib.: 2012.07.24  
 Start Time: 02:24:46 End Time: 08:29:10 Time On Btm: 2012.07.24 @ 04:34:11  
 Time Off Btm: 2012.07.24 @ 06:36:41

TEST COMMENT: IF: Weak blow died in 8 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.47	116.93	Initial Hydro-static
2	20.83	115.73	Open To Flow (1)
34	23.40	115.93	Shut-In(1)
62	665.03	116.93	End Shut-In(1)
62	23.58	116.61	Open To Flow (2)
89	26.73	117.19	Shut-In(2)
122	72.29	117.96	End Shut-In(2)
123	1934.81	119.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud oil spots 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48365

**DST#: 3**

ATTN: Tim Priest

Test Start: 2012.07.24 @ 02:24:41

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

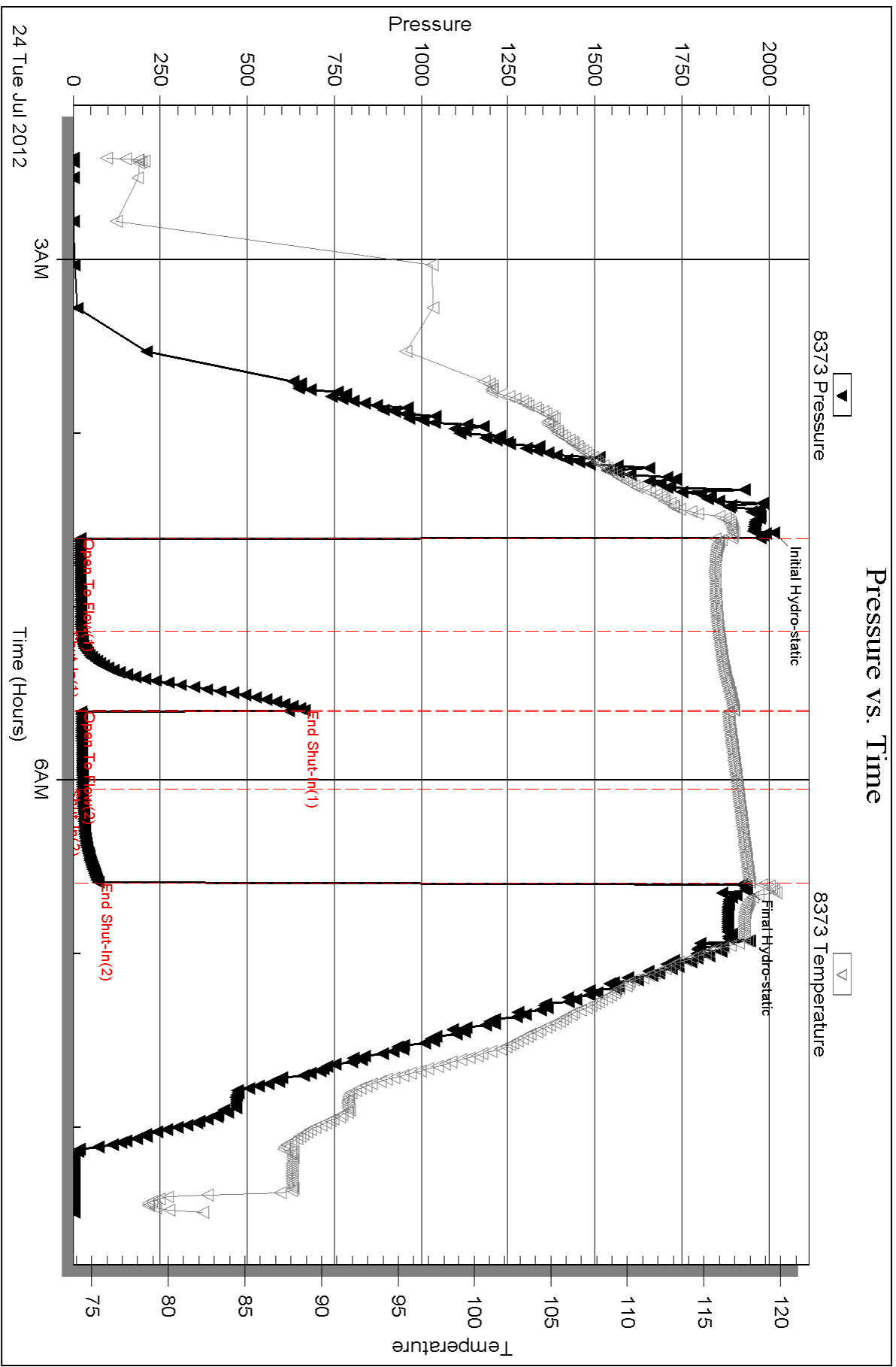
Serial #: 8373

Inside

Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 3





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

ATTN: Tim Priest

Job Ticket: 48366

**DST#: 4**

Test Start: 2012.07.24 @ 22:00:11

## GENERAL INFORMATION:

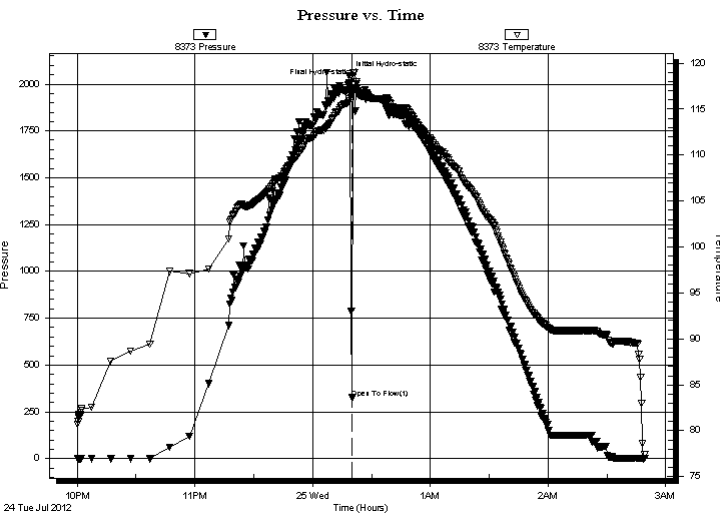
Formation: **J**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **00:20:11** Tester: **Brandon Turley**  
 Time Test Ended: **02:49:26** Unit No: **60**  
**Interval: 4151.00 ft (KB) To 4170.00 ft (KB) (TVD)** Reference Elevations: **2871.00 ft (KB)**  
 Total Depth: **4170.00 ft (KB) (TVD)** **2864.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **7.00 ft**

## Serial #: 8373

**Inside**

Press @ Run Depth: **psig @ 4156.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.07.24** End Date: **2012.07.25** Last Calib.: **2012.07.25**  
 Start Time: **22:00:16** End Time: **02:49:25** Time On Btm: **2012.07.25 @ 00:18:26**  
 Time Off Btm: **2012.07.25 @ 00:22:41**

TEST COMMENT: Packers failed at open.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.66	115.91	Initial Hydro-static
2	325.50	118.46	Open To Flow (1)
5	2003.87	117.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mud 100%m	2.35

\* 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

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48366

**DST#: 4**

ATTN: Tim Priest

Test Start: 2012.07.24 @ 22:00:11

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mud 100%m	2.349

Total Length: 248.00 ft      Total Volume: 2.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

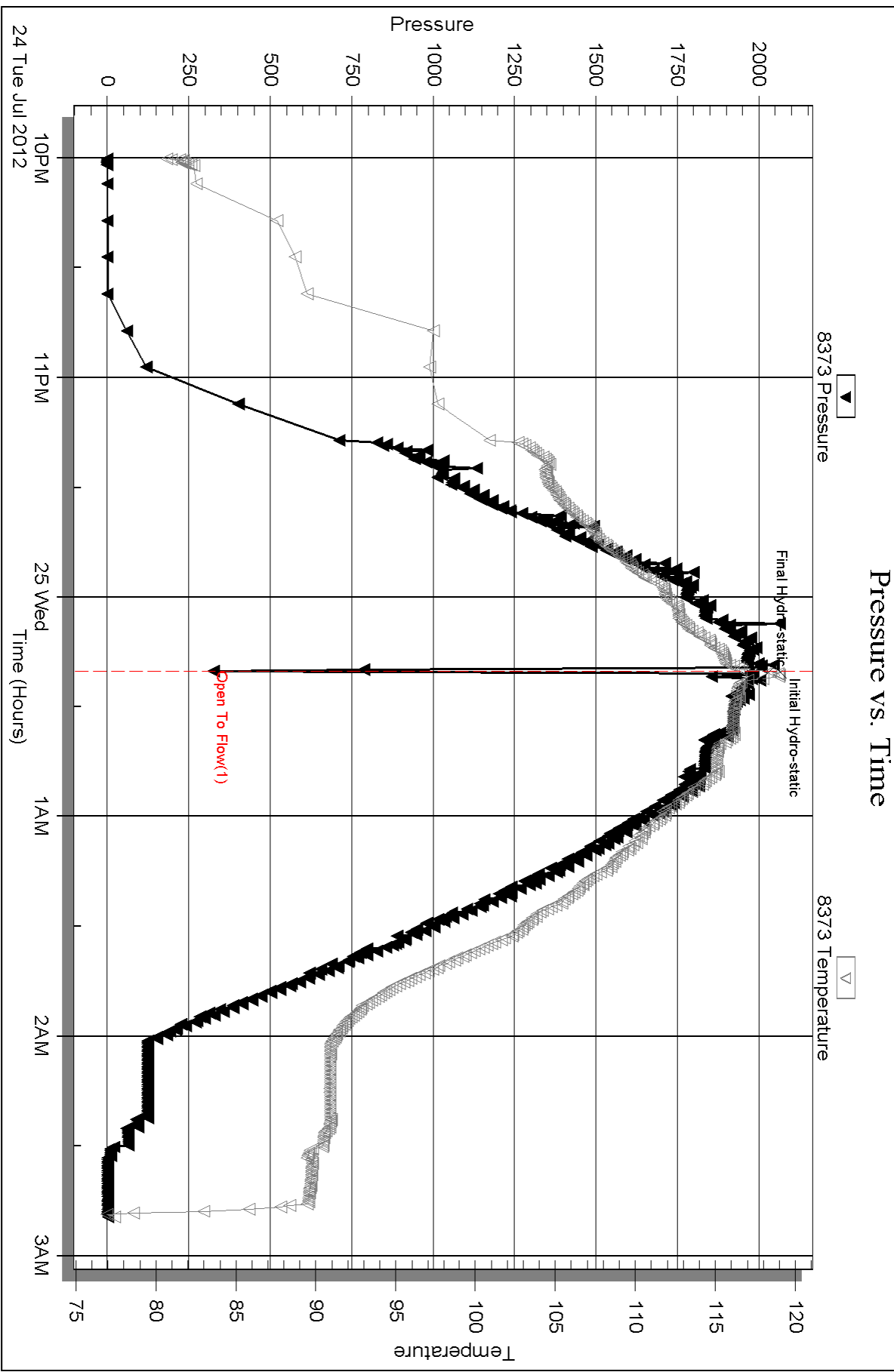
Serial #: 8373

Inside

Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 48366

Printed: 2012.07.25 @ 13:23:45



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48367

**DST#: 5**

ATTN: Tim Priest

Test Start: 2012.07.25 @ 03:10:31

## GENERAL INFORMATION:

Formation: **J**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **04:57:01** Tester: **Brandon Turley**  
 Time Test Ended: **09:50:01** Unit No: **60**  
**Interval: 4153.00 ft (KB) To 4170.00 ft (KB) (TVD)** Reference Elevations: **2871.00 ft (KB)**  
 Total Depth: **4170.00 ft (KB) (TVD)** **2864.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **7.00 ft**

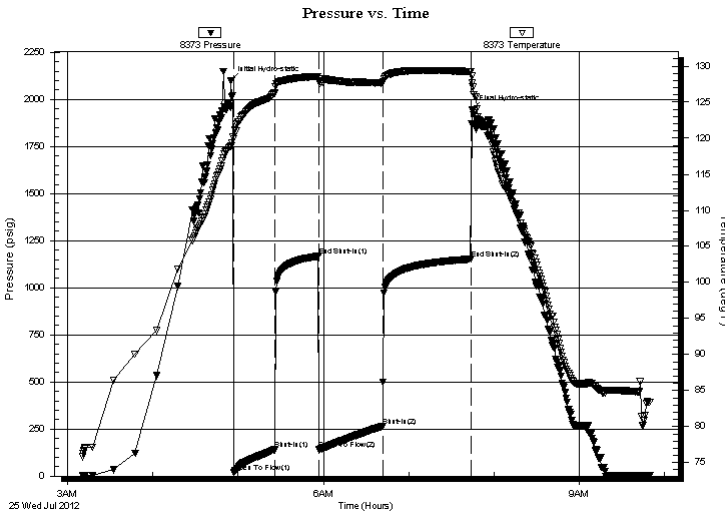
## Serial #: 8373

**Inside**

Press @ Run Depth: **266.39 psig @ 4158.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.07.25** End Date: **2012.07.25** Last Calib.: **2012.07.25**  
 Start Time: **03:10:36** End Time: **09:50:00** Time On Btm: **2012.07.25 @ 04:55:01**  
 Time Off Btm: **2012.07.25 @ 07:44:46**

TEST COMMENT: IF: BOB in 13 min.  
 IS: No return.  
 FF: BOB in 16 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.96	118.91	Initial Hydro-static
2	17.95	119.96	Open To Flow (1)
31	140.11	126.24	Shut-In(1)
62	1168.14	128.55	End Shut-In(1)
62	142.63	128.01	Open To Flow (2)
107	266.39	127.67	Shut-In(2)
169	1152.86	129.25	End Shut-In(2)
170	1947.70	127.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 95%w 5%m	2.35
206.00	mcw 70%w 30%m	2.89

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48367

**DST#: 5**

ATTN: Tim Priest

Test Start: 2012.07.25 @ 03:10:31

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	mcw 95%w 5%m	2.349
206.00	mcw 70%w 30%m	2.890

Total Length: 454.00 ft      Total Volume: 5.239 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

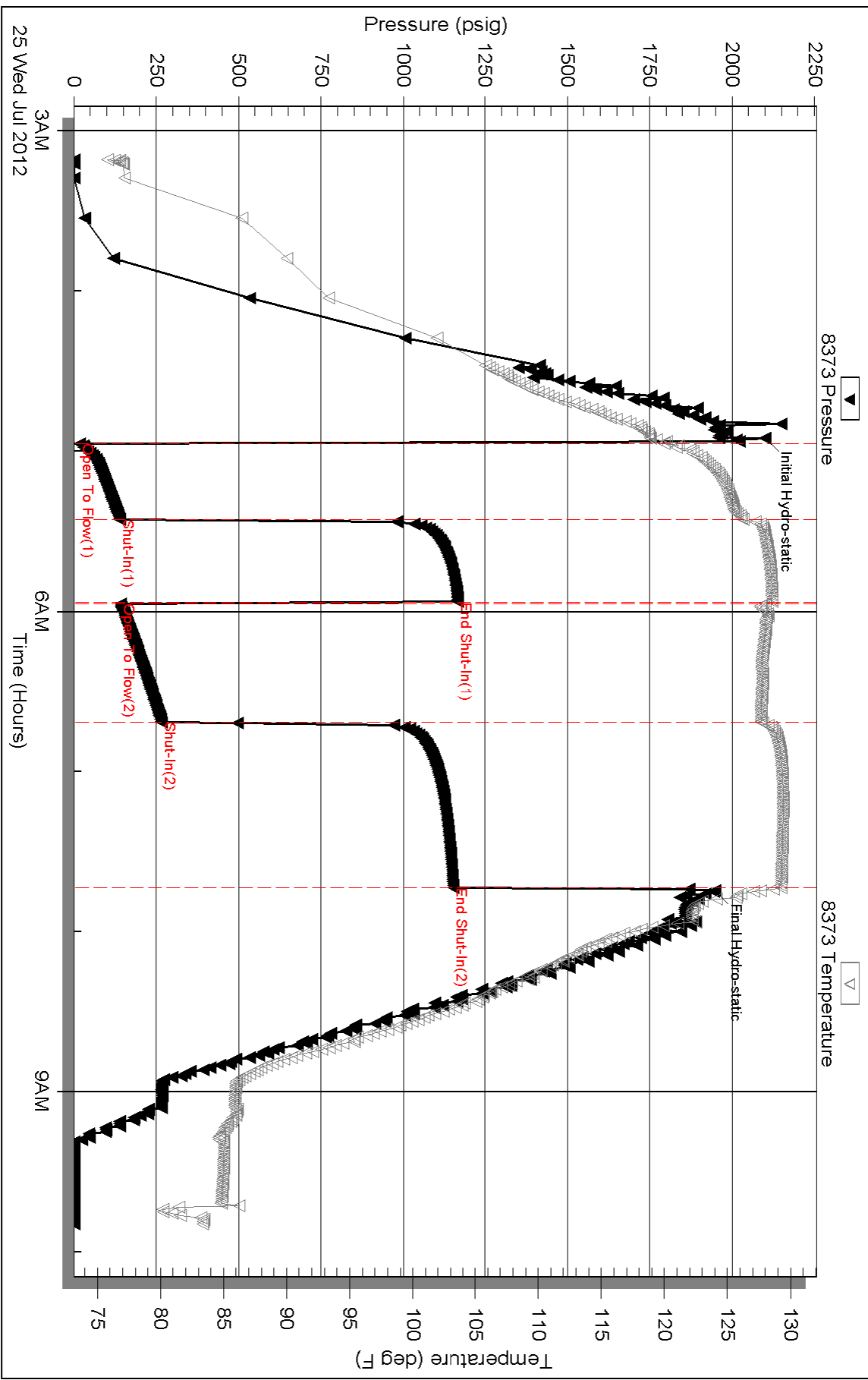
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .15@83=42000

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48368

**DST#: 6**

ATTN: Tim Priest

Test Start: 2012.07.25 @ 18:16:44

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:27:44  
 Time Test Ended: 02:16:59  
 Interval: **4172.00 ft (KB) To 4200.00 ft (KB) (TVD)**  
 Total Depth: 4200.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2871.00 ft (KB)  
 2864.00 ft (CF)  
 KB to GR/CF: 7.00 ft

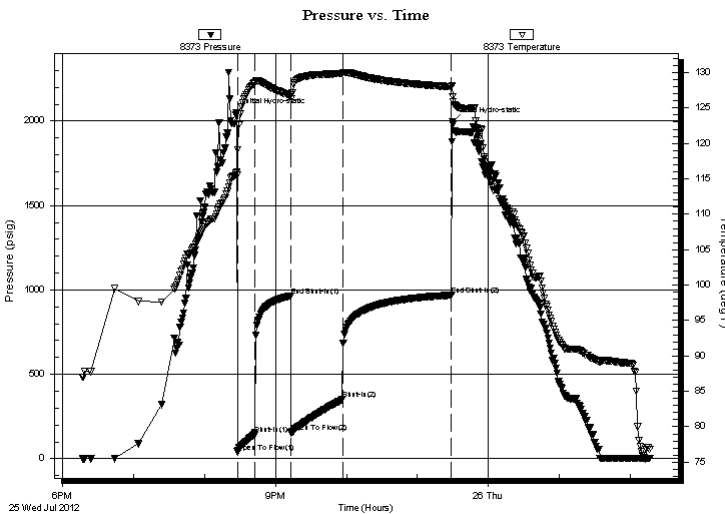
## Serial #: 8373

Inside

Press @ Run Depth: 350.20 psig @ 4177.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.07.25 End Date: 2012.07.26 Last Calib.: 2012.07.26  
 Start Time: 18:16:49 End Time: 02:16:58 Time On Btm: 2012.07.25 @ 20:26:44  
 Time Off Btm: 2012.07.25 @ 23:29:44

TEST COMMENT: IF: BOB in 5 min.  
 IS: No return.  
 FF: BOB in 8 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.53	115.81	Initial Hydro-static
1	40.28	115.61	Open To Flow (1)
16	142.51	128.51	Shut-In(1)
46	966.06	126.81	End Shut-In(1)
47	154.31	126.35	Open To Flow (2)
90	350.20	129.83	Shut-In(2)
182	969.63	127.99	End Shut-In(2)
183	1995.98	126.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	water 100%w	4.09
186.00	mcw 90%w 10%m	2.61
196.00	mcw 60%w 40%m	2.75

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48368

**DST#: 6**

ATTN: Tim Priest

Test Start: 2012.07.25 @ 18:16:44

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
372.00	water 100%w	4.089
186.00	mcw 90%w 10%m	2.609
196.00	mcw 60%w 40%m	2.749

Total Length: 754.00 ft      Total Volume: 9.447 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .13@78=50000

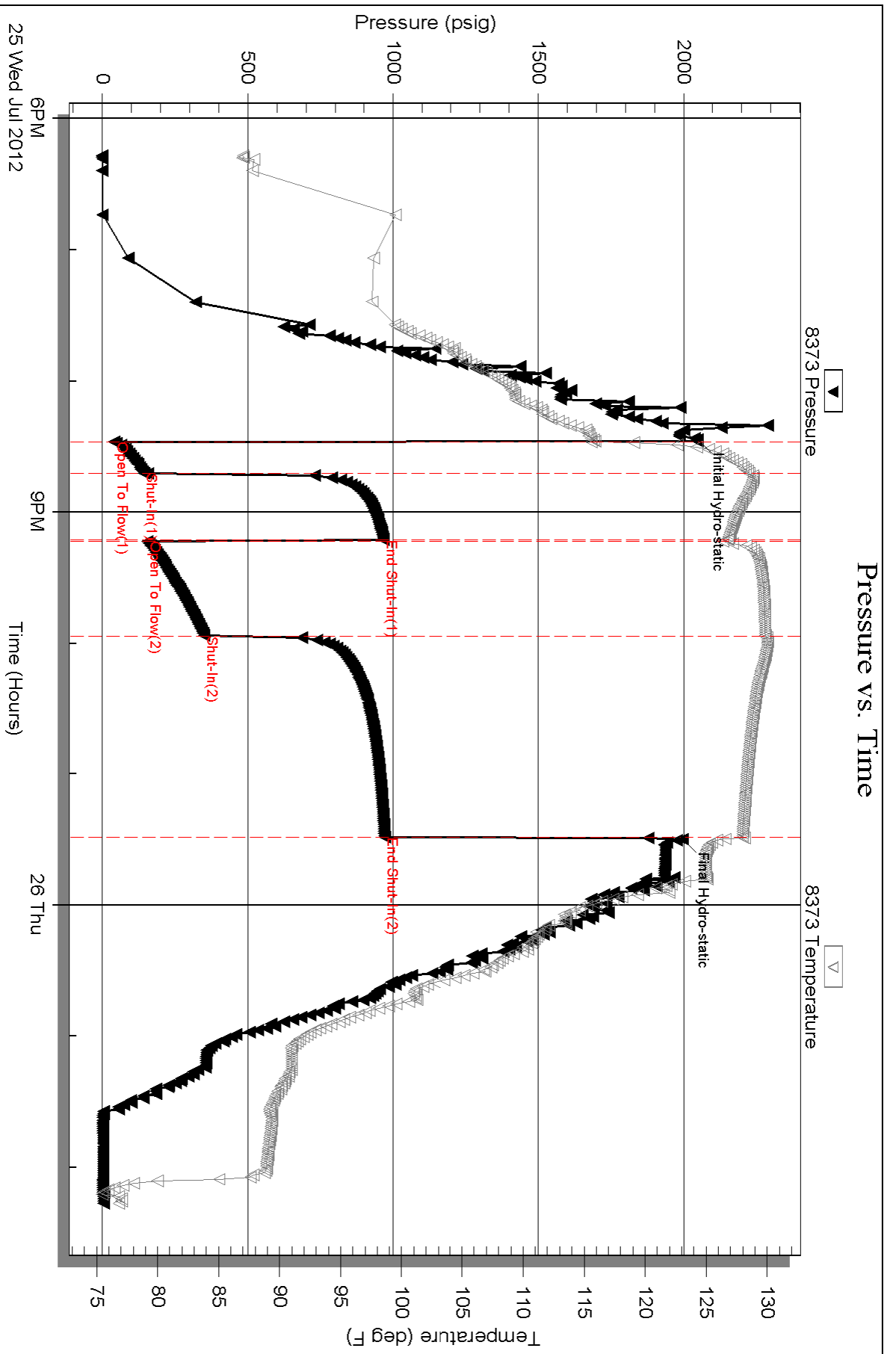
Serial #: 8373

Inside

Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 48368

Printed: 2012.07.26 @ 07:54:48





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48369

**DST#: 7**

ATTN: Tim Priest

Test Start: 2012.07.27 @ 12:19:42

## GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:52

Time Test Ended: 17:50:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4393.00 ft (KB) To 4421.00 ft (KB) (TVD)**

Reference Elevations: 2871.00 ft (KB)

Total Depth: 4421.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8373 Inside**

Press @ Run Depth: 33.48 psig @ 4398.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.27 End Date: 2012.07.27

Last Calib.: 2012.07.27

Start Time: 12:19:42 End Time: 17:50:36

Time On Btm: 2012.07.27 @ 13:41:52

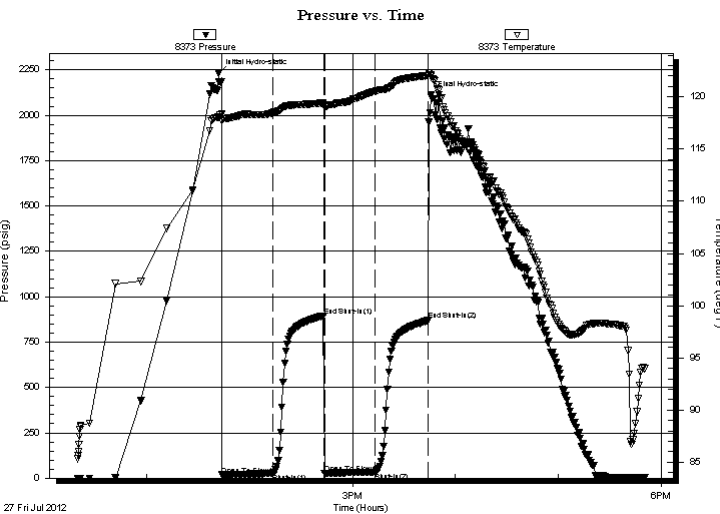
Time Off Btm: 2012.07.27 @ 15:45:37

**TEST COMMENT:** IF: Weak blow died 12 min.

IS: No return.

FF: No blow.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.30	118.02	Initial Hydro-static
2	17.93	117.71	Open To Flow (1)
32	26.80	118.50	Shut-In(1)
62	895.39	119.41	End Shut-In(1)
62	27.57	119.00	Open To Flow (2)
92	33.48	120.52	Shut-In(2)
123	869.40	122.03	End Shut-In(2)
124	2111.29	122.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud oil spots 100%m	0.05

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

23-13-31 Gove Ks

202 W Main St  
Salem IL 62881

Zerr Trust 3-23

Job Ticket: 48369

DST#: 7

ATTN: Tim Priest

Test Start: 2012.07.27 @ 12:19:42

### GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:52

Time Test Ended: 17:50:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4393.00 ft (KB) To 4421.00 ft (KB) (TVD)**

Reference Elevations: 2871.00 ft (KB)

Total Depth: 4421.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8356**

**Outside**

Press @ Run Depth: psig @ 4398.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.27

End Date:

2012.07.27

Last Calib.:

2012.07.27

Start Time: 12:19:17

End Time:

17:50:11

Time On Btm:

Time Off Btm:

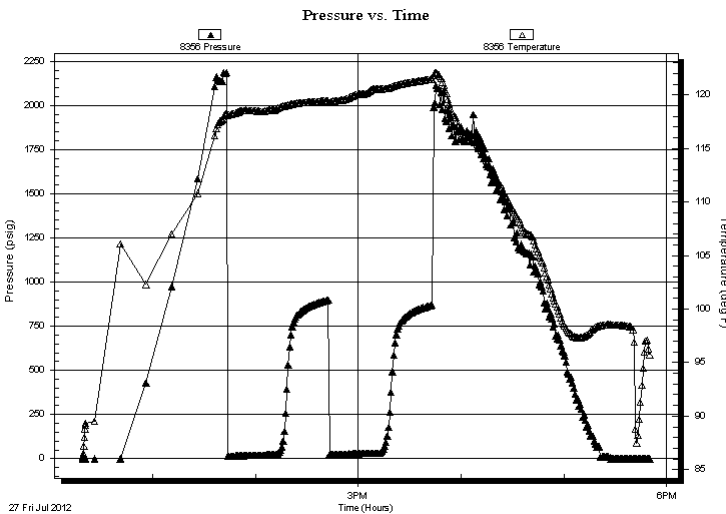
TEST COMMENT: IF: Weak blow died 12 min.

IS: No return.

FF: No blow .

FS: No return.

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud oil spots 100%m	0.05

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48369

**DST#: 7**

ATTN: Tim Priest

Test Start: 2012.07.27 @ 12:19:42

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud oil spots 100%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

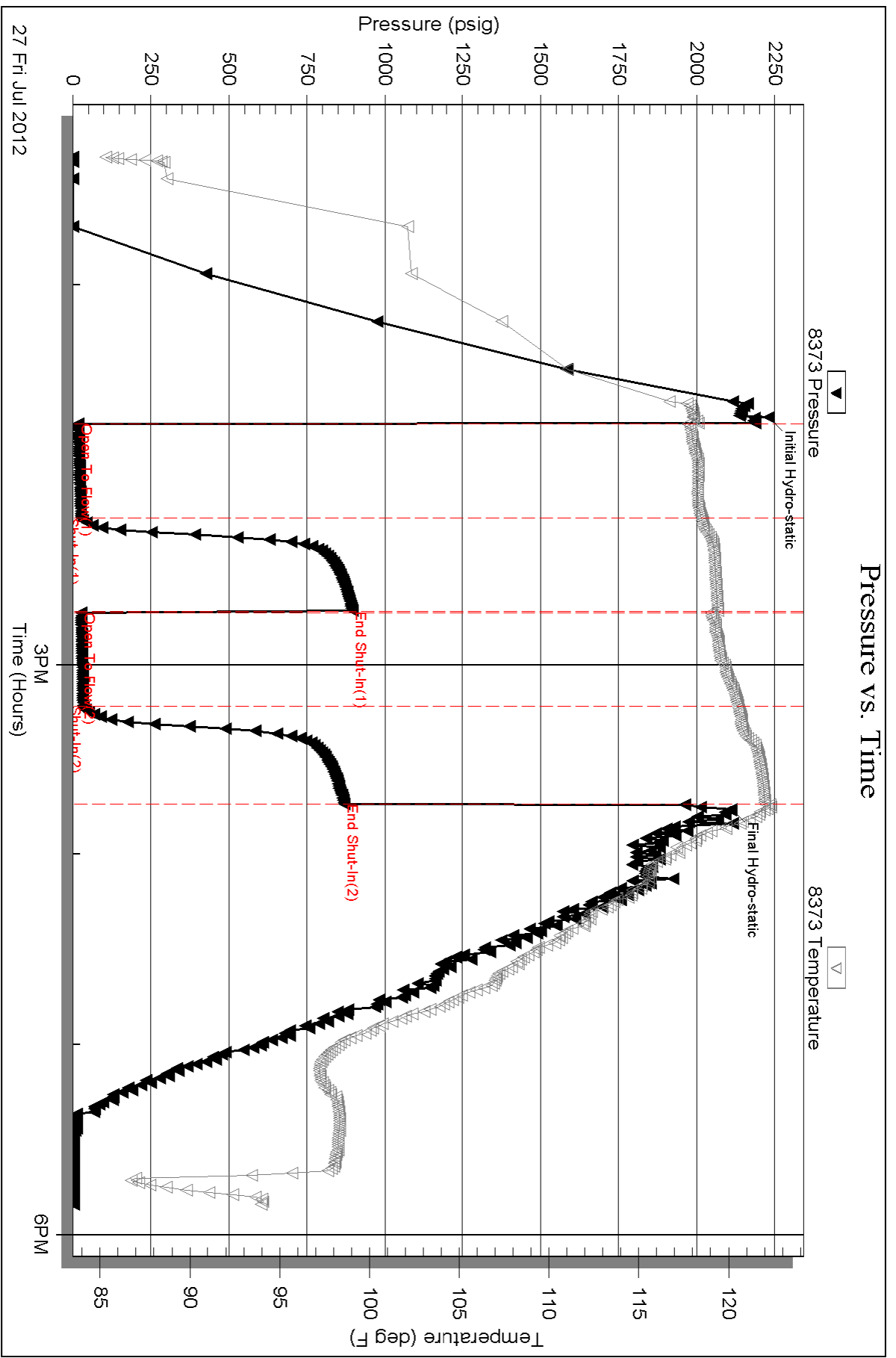
Serial #: 8373

Inside

Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 48369

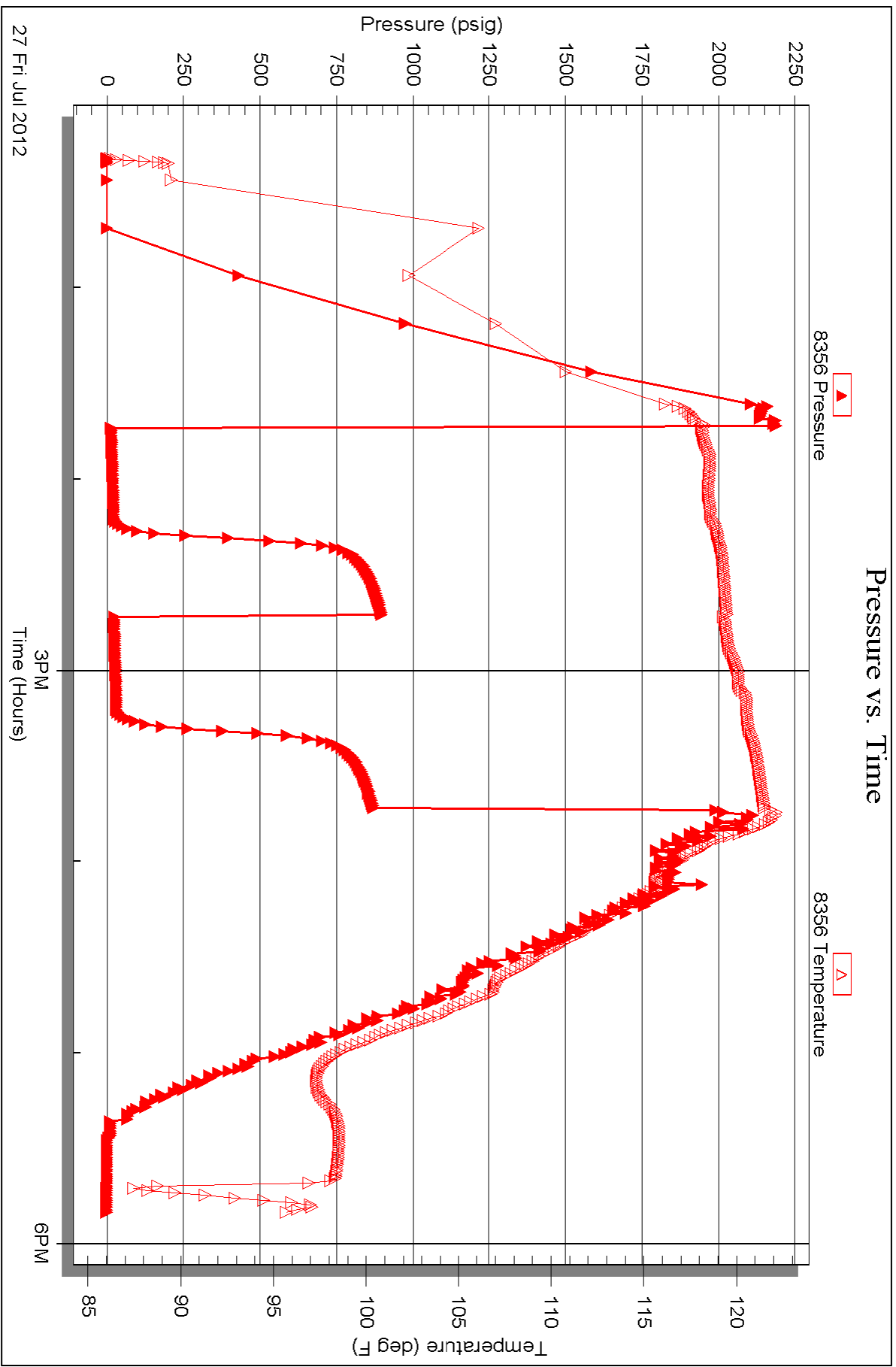
Printed: 2012.07.27 @ 23:37:22

Serial #: 8356

Outside Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 7





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

**23-13-31 Gove Ks**

202 W Main St  
Salem IL 62881

**Zerr Trust 3-23**

Job Ticket: 48370

**DST#: 8**

ATTN: Tim Priest

Test Start: 2012.07.28 @ 10:21:01

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:53:41

Time Test Ended: 15:55:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4480.00 ft (KB) To 4526.00 ft (KB) (TVD)**

Reference Elevations: 2871.00 ft (KB)

Total Depth: 4526.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8373 Inside**

Press @ Run Depth: 18.29 psig @ 4485.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.28

End Date: 2012.07.28

Last Calib.: 2012.07.28

Start Time: 10:21:01

End Time: 15:55:55

Time On Btm: 2012.07.28 @ 11:51:56

Time Off Btm: 2012.07.28 @ 13:54:41

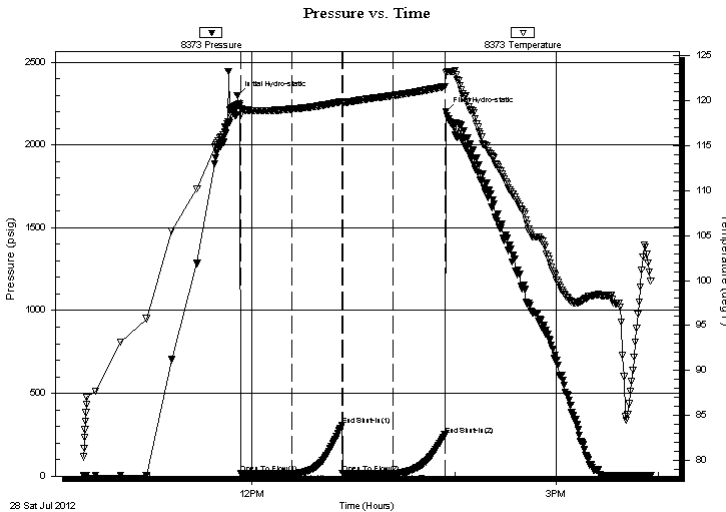
**TEST COMMENT:** IF: Weak blow died in 5 min.

IS: No return.

FF: No blow.

FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.63	119.51	Initial Hydro-static
2	15.54	118.43	Open To Flow (1)
32	16.81	119.08	Shut-In(1)
62	306.04	119.92	End Shut-In(1)
62	16.33	119.76	Open To Flow (2)
92	18.29	120.59	Shut-In(2)
122	249.79	121.60	End Shut-In(2)
123	2202.63	123.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Shakespeare Oil Co Inc

202 W Main St  
Salem IL 62881

ATTN: Tim Priest

**23-13-31 Gove Ks**

**Zerr Trust 3-23**

Job Ticket: 48370

**DST#: 8**

Test Start: 2012.07.28 @ 10:21:01

### GENERAL INFORMATION:

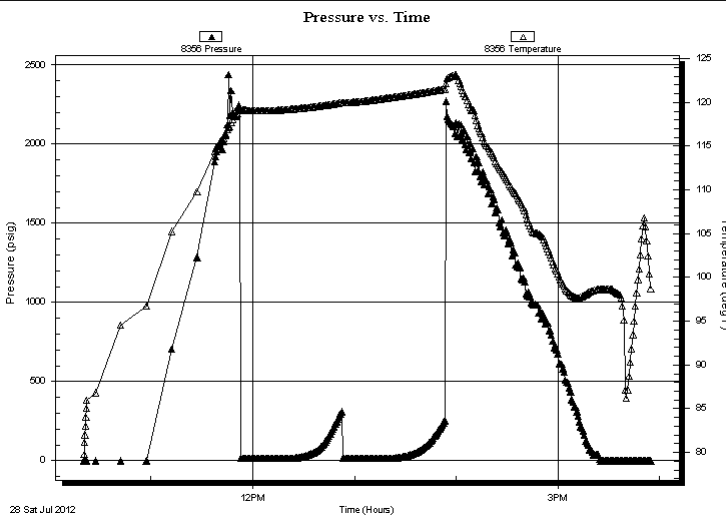
Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:53:41  
 Time Test Ended: 15:55:55  
 Interval: **4480.00 ft (KB) To 4526.00 ft (KB) (TVD)**  
 Total Depth: 4526.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2871.00 ft (KB)  
 2864.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8356**

**Outside**

Press@RunDepth: psig @ 4485.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2012.07.28 End Date: 2012.07.28 Last Calib.: 2012.07.28  
 Start Time: 10:20:12 End Time: 15:55:06 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak blow died in 5 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

### Gas Rates

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

\* Recovery from multiple tests

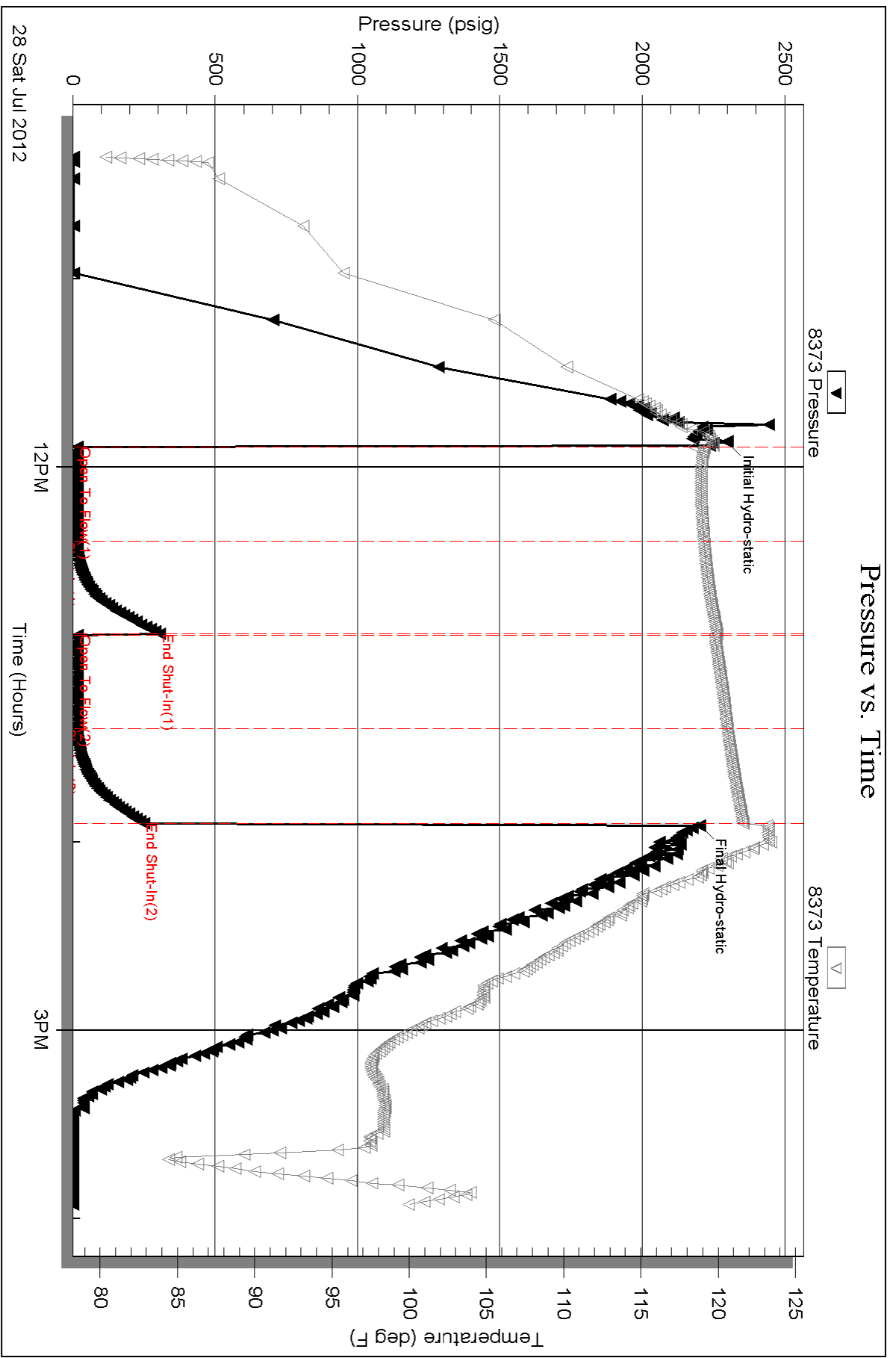
Serial #: 8373

Inside

Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 8



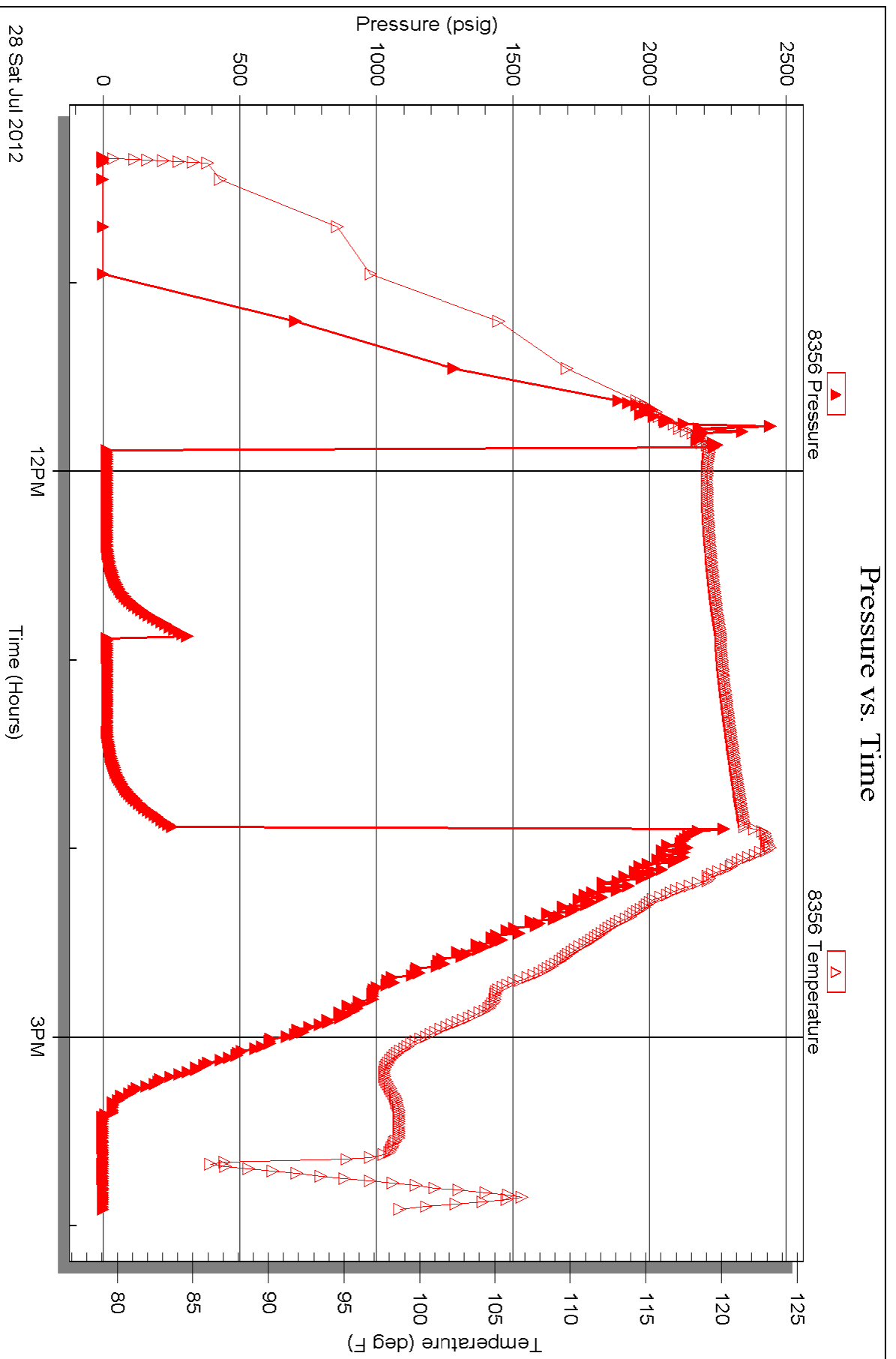


Serial #: 8356

Outside Shakespeare Oil Co Inc

Zerr Trust 3-23

DST Test Number: 8



Triobite Testing, Inc

Ref. No: 48370

Printed: 2012.07.28 @ 19:13:49

**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY **SHAKESPEARE OIL CO.** ELEVATIONS  
 LEASE **Zart Thus #3-23** DF **2874'**  
 FIELD **Wildcat** LOCATION **3351 FMS, 1500' FWL** SEC **23** T13S R0E **31W** GL **2864'**  
 COUNTY **Grave** STATE **Kansas** Measurements Are All From **KB**  
 CONTRACTOR **HD Drilling Rig #2**  
 SPUD **7-17-12** COMP **LTD** CASING **N/A**  
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTOR **N/A**  
 SAMPLES SAVED FROM **3600'** to RTD SURFACE **8-5/8" @**  
 DRILLING TIME KEPT FROM **3600'** to RTD PRODUCTION  
 SAMPLES EXAMINED FROM **3700'** to RTD ELECTRICAL SURVEYS  
 GEOLOGICAL SUPERVISION FROM **3800'** to RTD CND/D/SP/P/E  
 GEOLOGIST ON WELL **Tim Priest** Micro  
 By: **Weatherford**

FORMATION TOPS ELECTRIC LOG SAMPLE

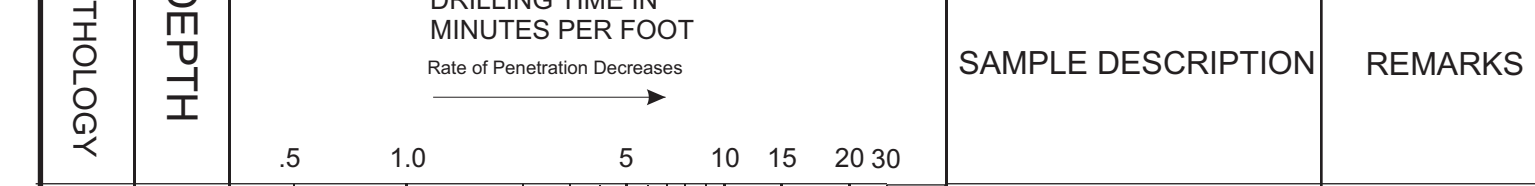
Anyvrite  
 Heebner Shale  
 Austing  
 SBRC

Fort Scott  
 Cherokee Shale  
 Mississippian

REMARKS

Respectfully Submitted,

**API #15-063-22016-00-00** Tim Priest  
 Petroleum Geologist



DEPTH	LITHOLOGY	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
2350	Shale	~1.0	Ls crm, fn xtl, fos, chky, f int xtl-pp por, NS	
3700	Shale	~1.0	Sh grn-gry	
3750	Shale	~1.0	Ls gry, vfn xtl, dnse	
3800	Shale	~1.0	Ls crm-tan, fn xtl, fos-fn ool, p-f int xtl-pp por, NS	
3850	Shale	~1.0	Sh grn-gry, silty	
3900	Shale	~1.0	Ls crm-tan, fn xtl, fos, chky, p int xtl por, NS	
3950	Shale	~1.0	Sh blk	
4000	Shale	~1.0	SS lt gry, vfn grm, w/gry silts & Sh	
4050	Shale	~1.0	Ls crm-tan, fn xtl, sil fos, dnse	
4100	Shale	~1.0	Ls crm, fn xtl, ool, sli chky, f int ool por, NS	
4150	Shale	~1.0	Sh blk	
4200	Shale	~1.0	Ls crm-lt gry, fn xtl, fos, chky, f int xtl & int frag por, NS	
4250	Shale	~1.0	Sh gry, w/lt gry chty Ls	
4300	Shale	~1.0	Ls crm-gry, fn xtl, fos, chky, f int xtl & int frag por, NS	
4350	Shale	~1.0	Sh gry	
4400	Shale	~1.0	Ls crm, fn xtl, fos, p-f int xtl por, NS	
4450	Shale	~1.0	Sh blk, carb	<b>Heebner 3891 (-1017)</b>
4500	Shale	~1.0	Sh gm-gry-maroon, calc	
4550	Shale	~1.0	Ls crm, fn xtl, fos, sli chky, p int xtl-pp por, NS	<b>Toronto 3916 (-1042)</b>
4600	Shale	~1.0	Ls crm, fn xtl, fos, chky, f int xtl por, NS	<b>Lansing 3937 (-1063)</b>
4650	Shale	~1.0	Ls crm-lt gry, fn xtl, ool, chky, f int ool & ooc por, NS	<b>DST # 1 (3960'-3980')</b> 30'-30'-30'-30' FF: Died in 14', no return FF: No blow, no return Rec: 40' MCW(70%W,30%M), 124' MW(90%W,10%M) Fps: 17-82W/2-92# SIPs: 1172W/1143# HSPs: 1956W/1936# BHT: 121 deg F Pipe strap @ 3980' was .60' short to board
4700	Shale	~1.0	Ls crm, fn xtl, sub ool-ool, chky, f int xtl & int ool por, NS	
4750	Shale	~1.0	Sh gm-gry	
4800	Shale	~1.0	Ls crm, fn xtl, ool, sli chky, p-f int xtl por, sptd-sli sat stn, SFO, v sli odor, dull fluor	<b>DST # 2 (4007'-4030')</b> 30'-30'-30'-30' FF: Died in 14', no return FF: No blow, no return Rec: 5' OSM Fps: 20-28W/23-26# SIPs: 925W/72# HSPs: 2015W/1934# BHT: 119 deg F
4850	Shale	~1.0	Sh gm-gry	
4900	Shale	~1.0	Ls crm-lt gry, fn xtl, fos-sli ool, chky, p-f int xtl-pp por w/few vugs, sptd-sli sat stn, SSFO, sli odor, dull fluor	<b>DST # 3 (4091'-4120')</b> 30'-30'-30'-30' FF: Died in 14', no return FF: No blow, no return Rec: 5' OSM Fps: 17-82W/2-92# SIPs: 1168W/1152# HSPs: 1974W/1924# BHT: 118 deg F
4950	Shale	~1.0	Sh gm-gry	
5000	Shale	~1.0	Ls crm-lt gry, fn xtl, ool, p-f ooc por, NS	
5050	Shale	~1.0	Ls lt gry, vfn xtl, dnse	<b>Muncie Creek 4086 (-1212)</b>
5100	Shale	~1.0	Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
5150	Shale	~1.0	Ls crm-lt gry, vfn xtl, sli chky, dnse	
5200	Shale	~1.0	Sh blk, carb	<b>DST # 4 (4151'-4170')</b> Missurun
5250	Shale	~1.0	Sh gry-dk gry, calc	
5300	Shale	~1.0	Ls crm, fn-med xtl, sli dolo, sli chky, f int xtl-pp por, sptd-sli sat stn, SSFO, f odor, f fluor	<b>DST # 5 (4153'-4170')</b> 30'-30'-45'-60' FF: BOB in 13', no return FF: BOB in 16', no return Rec: 5' Mud Fps: 17-140W/142-255# SIPs: 1168W/1152# HSPs: 937W/733# BHT: 127 deg F
5350	Shale	~1.0	Ls crm-lt gry, vfn xtl, sli chky, dnse	
5400	Shale	~1.0	Sh blk, carb	<b>Stark 4173 (-1299)</b>
5450	Shale	~1.0	Ls crm-lt gry, fn xtl, fos, sli chky, p-f int xtl-pp por, NS	
5500	Shale	~1.0	Ls crm-lt gry, fn xtl, ool, chky, p-f int ool por, NS	
5550	Shale	~1.0	Sh gm-gry	
5600	Shale	~1.0	Ls crm, fn xtl, ool, sli chky, p-f int xtl & int ool por, sptd-sli sat stn, SFO, sli odor, dull fluor	<b>DST # 6 (4172'-4200')</b> 30'-30'-30'-30' FF: BOB in 5', no return FF: BOB in 8', no return Rec: 196' MCW(80%W,40%M), 248' MCW(95%W,5%M) Total Fluid: 454' Fps: 40-142W/154-350# SIPs: 964W/80# HSPs: 2231W/211# BHT: 129 deg F Clear: 50,000 gpm
5650	Shale	~1.0	Ls tan-brn, vfn xtl, dnse	
5700	Shale	~1.0	Sh blk, carb	
5750	Shale	~1.0	Sh tan-brn, vfn xtl, dnse	
5800	Shale	~1.0	Sh gry-brn, calc	
5850	Shale	~1.0	Ls lt gry-gry, vfn xtl, sli fos-ool, chky, dnse	
5900	Shale	~1.0	Sh blk carb	
5950	Shale	~1.0	Ls lt gry, vfn xtl, dnse	
6000	Shale	~1.0	Sh var col, silty	<b>Marmaton 4266 (-1392)</b>
6050	Shale	~1.0	Ls crm-lt gry, fn-vfn xtl, sli fos, sli chky, dnse	
6100	Shale	~1.0	Sh var ool, calc, sli pyritic	
6150	Shale	~1.0	Ls crm-lt gry, fn vfn xtl, sli fos, sli chky, dnse	
6200	Shale	~1.0	Ls lt gry, fn xtl, chky, arg in prt	
6250	Shale	~1.0	Ls crm-tan, fn xtl, fos, p int xtl-pp por, few pcs sptd-sli sat stn, VSSFO, f odor, f fluor	
6300	Shale	~1.0	Ls crm-gry, vfn xtl, dnse	
6350	Shale	~1.0	Sh gm-gry	
6400	Shale	~1.0	Ls crm-lt gry, fn xtl, sli fos, sli chky, dnse	
6450	Shale	~1.0	Sh gm-gry	
6500	Shale	~1.0	Sh var col	
6550	Shale	~1.0	Ls crm-lt gry, mio xtl, v chty, dnse	
6600	Shale	~1.0	Ls crm-lt gry, vfn xtl, sli chky, dnse	
6650	Shale	~1.0	Sh blk, carb	
6700	Shale	~1.0	Ls crm-tan, fn xtl, arg in prt	
6750	Shale	~1.0	Ls crm-gry, vfn xtl, arg in prt	
6800	Shale	~1.0	Ls crm-gry, vfn xtl, arg in prt	
6850	Shale	~1.0	Sh blk, carb	<b>DST # 7 (4333'-4421')</b> 30'-30'-30'-30' FF: Died in 12', no return FF: No blow, no return Rec: 10' OSM Fps: 17-26W/27-33# SIPs: 856W/80# HSPs: 2231W/211# BHT: 122 deg F
6900	Shale	~1.0	Sh gry-dk gry, calc	<b>Myric Station 4410 (-1536)</b>
6950	Shale	~1.0	Ls crm-lt gry, fn xtl, sli fos, chky, p-f int xtl-pp por, sptd-sli sat stn, SSFO, sli odor, f fluor	
7000	Shale	~1.0	Ls crm-lt gry, vfn xtl, chty, dnse	
7050	Shale	~1.0	Sh blk, carb	<b>Fort Scott 4432 (-1558)</b>
7100	Shale	~1.0	Ls crm-gry, vfn xtl, sli fos, sli chty, dnse	
7150	Shale	~1.0	Ls tan-gry, fn xtl, fos-ool, p int ool por, NS	
7200	Shale	~1.0	Sh blk, carb	<b>Cherokee Shale 4460 (-1586)</b>
7250	Shale	~1.0	Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
7300	Shale	~1.0	Ls crm-tan, vfn xtl, dnse	
7350	Shale	~1.0	Sh blk, carb	<b>DST # 8 (4400'-4526')</b> 30'-30'-30'-30' FF: Died in 5', no return FF: No blow, no return Rec: 5' Mud Fps: 15-16W/26-18# SIPs: 306W/249# HSPs: 2207W/2202# BHT: 121 deg F
7400	Shale	~1.0	Sh blk, carb	
7450	Shale	~1.0	Ls crm-tan, vfn xtl, dnse	
7500	Shale	~1.0	Sh gry-grn-red	
7550	Shale	~1.0	Ls crm-tan-gry, fn xtl, p int xtl & scat pp-wug por, sptd-sli sat dk stn, SSFO (mostly floating), f odor, dull fluor	<b>Johnson Zone 4506 (-1632)</b>
7600	Shale	~1.0	Ls tan-gry, vfn xtl, sli chky, sptd stn on few pcs, VSSFO, sli odor, vdull fluor	
7650	Shale	~1.0	Sh var col	
7700	Shale	~1.0	SS gry, fn-med grm, silty, sli fria, NS	
7750	Shale	~1.0	Sh gry-blk, w/SS lt grm, fn grm, fria, NS	
7800	Shale	~1.0	Sh var col	<b>Mississippian 4552 (-1678)</b>
7850	Shale	~1.0	Ls crm-tan, vfn xtl, dnse	
7900	Shale	~1.0	Ls tan, vfn xtl, ool, dnse	
7950	Shale	~1.0	Ls crm-lt gry, vfn xtl, sli sandy, dnse	
8000	Shale	~1.0	Ls crm-tan, vfn xtl, sub ool in prt, dnse	
8050	Shale	~1.0	Ls tan-gry, vfn xtl, w/grn-gry sh & silts	
8100	Shale	~1.0		<b>Total Depth 4630' (-1756)</b>

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 131983

Invoice Date: Jul 17, 2012

Page: 1

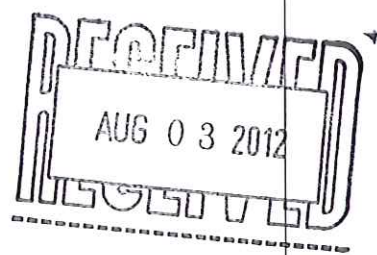


<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

INT

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Zerr Trust #3-23	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 17, 2012	8/16/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
189.24	SER	Cubic Feet	2.10	397.40
181.43	SER	Ton Mileage	2.35	426.38
1.00	SER	Surface	1,125.00	1,125.00
21.00	SER	Pump Truck Mileage	7.00	147.00
1.00	SER	Manifold Swedge Rental	200.00	200.00
21.00	SER	Light Vehicle Mileage	4.00	84.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Adam Holcomb		



Surface  
10502-S

Subtotal	5,636.48
Sales Tax	262.16
Total Invoice Amount	5,898.64
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,898.64</b>

DW

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1409.12

ONLY IF PAID ON OR BEFORE  
Aug 11, 2012

# ALLIED OIL & GAS SERVICES, LLC 056241

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Orkley

DATE <u>7-17-12</u>	SEC. <u>23</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30</u>	JOB FINISH <u>12:00</u>
LEASE <u>Zerr Trust</u>	WELL.# <u>3-23</u>	LOCATION <u>Orkley N5-S E-35-1E-15</u>			COUNTY <u>Cove</u>	STATE <u>Ks.</u>	
OLD OR <u>NEW</u> (Circle one)		Einto			1.01 8.05		

CONTRACTOR HD #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 266

CASINO SIZE 8 7/8 DEPTH 266

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSO. 15'

PERFS.

DISPLACEMENT 16.06

OWNER Same.

CEMENT AMOUNT ORDERED 175 SKS Com 3% CC.  
2% Gel

COMMON	<u>175 SKS</u>	@ <u>16.25</u>	<u>\$2843.75</u>
POZMIX		@	
GEL	<u>3 SKS</u>	@ <u>21.25</u>	<u>\$63.75</u>
CHLORIDE	<u>6 SKS</u>	@ <u>58.00</u>	<u>\$348.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>187.24</u>	@ <u>2.10</u>	<u>\$393.20</u>
MILEAGE	<u>864 x 21.3</u>	@ <u>2.35</u>	<u>\$2009.80</u>
	<u>181.43</u>		
			TOTAL <u>\$4080.48</u>

EQUIPMENT

PUMP TRUCK CEMENTER Dwan Racette 1

# 423-281 HELPER Tyler Flipse 2

BULK TRUCK

# 347 DRIVER Adam Holcomb 3

BULK TRUCK

# DRIVER

REMARKS:

Mix 175 SKS Cement  
Displace with water  
Cement Did Circulate

SERVICE

DEPTH OF JOB	<u>266</u>		
PUMP TRUCK CHARGE			<u>\$1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>21</u>	@ <u>7.25</u>	<u>\$152.25</u>
MANIFOLD	<u>Swedge</u>	@	<u>\$200.00</u>
	<u>21 LVM</u>	@ <u>4.00</u>	<u>\$84.00</u>
		@	

CHARGE TO: Strike speare

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \$1556.00

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 262.16

TOTAL CHARGES 5636.48

PRINTED NAME Carlos Martinez

DISCOUNT 20 427.29 IF PAID IN 30 DAYS

SIGNATURE [Signature]

1409.12

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 132145  
Invoice Date: Jul 29, 2012  
Page: 1



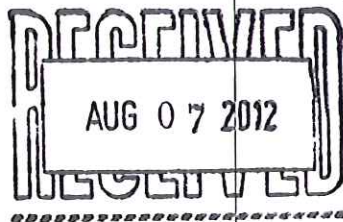
**Bill To:**  
Shakespeare Oil Co., Inc.  
202 West Main St.  
Salem, IL 62881

INT

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Zerr Trust #3-23	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 29, 2012	8/28/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	16.25	1,998.75
82.00	MAT	Pozmix	8.50	697.00
7.00	MAT	Gel	21.25	148.75
51.00	MAT	Flo Seal	2.70	137.70
220.17	SER	Cubic Feet	2.10	462.36
193.05	SER	Ton Mileage	2.35	453.67
1.00	SER	Plug to Abandon	1,250.00	1,250.00
21.00	SER	Pump Truck Mileage	7.00	147.00
21.00	SER	Light Vehicle Mileage	4.00	84.00
1.00	EQP	4.5 Top Wooden Plug	92.00	92.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Jeremy Sterger		

plugging  
10502-5



ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

**\$ 1367.80**

ONLY IF PAID ON OR BEFORE  
**Aug 23, 2012**

Subtotal	5,471.23
Sales Tax	440.43
Total Invoice Amount	5,911.66
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,911.66</b>

DW

# ALLIED OIL & GAS SERVICES, LLC 056654

Federal Tax I.D.# 20-5976804

MAIL TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley

DATE <u>7-27-12</u>	SEC. <u>23</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>4:00 PM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>7:00 PM</u>
LESSOR <u>Zerr Trust</u>		WELL # <u>3-23</u>		LOCATION <u>Oakley 115-5E-3S-1E-15</u>		COUNTY <u>Gove</u>	STATE <u>Ks.</u>
D OR NEW (Circle one) <u>NEW</u>				EINTO <u>Einto</u>		1.03 <span style="float: right;">8.05 oil</span>	

TRACTOR HD #2 OWNER Same

PE OF JOB PJA

BLE SIZE 7 7/8 T.D. 4630'

SING SIZE DEPTH

BING SIZE DEPTH

ILL PIPE 4 1/2 DEPTH 2380'

OL DEPTH

ES. MAX MINIMUM

AS. LINE SHOE JOINT

MENT LEFT IN CSG.

RFS.

PLACEMENT 30.28

EQUIPMENT

CEMENT

AMOUNT ORDERED 225 SKS 60/40 4% Gel

1/4" Flo seal

COMMON	<u>123 SKS</u>	@ <u>16.95</u>	<u>\$1998.75</u>
POZMIX	<u>82 SKS</u>	@ <u>8.50</u>	<u>\$697.00</u>
OBL	<u>7 SKS</u>	@ <u>21.25</u>	<u>\$148.75</u>
CHLORIDE		@	
ASC		@	
<u>Flo seal</u>	<u>51 #</u>	@ <u>2.72</u>	<u>\$137.72</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	

MP TRUCK CEMENTER Darren Kacette 1

23-281 HELPER Tyler Flipse 2

ILK TRUCK

317 DRIVER Jeremy Stenger 3

ILK TRUCK

DRIVER

HANDLING 220.17 x @ 2.10 462.36

MILEAGE 9.193 x 21 x @ 2.25 206.76

193.05 TOTAL \$3898.19

23

REMARKS:

11x255SKs Cement 2380 FT

11x100SKs Cement 1440 FT

11x40 SKs Cement 315 FT

11x10 SKs Cement 40 FT

Plug R.H. 30SKs Cement

Thank You

SERVICE

DEPTH OF JOB 2380'

PUMP TRUCK CHARGE \$1250.00

EXTRA FOOTAGE @

MILEAGE 21 @ 7.00 \$147.00

MANIFOLD @

LU mileage @ 4.00 \$84.00

TOTAL \$1481.00

ARGE TO: Shakespeare

REET

TY STATE ZIP

PLUG & FLOAT EQUIPMENT

1 Top wooden Plug @ 92.00

TOTAL \$92.00

Allied Oil & Gas Services, LLC.  
I am hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 140.43

TOTAL CHARGES 5471.19 23

DISCOUNT 25-1097.23 IF PAID IN 30 DAYS

1367.80

INTENDED NAME Doug Roberts

INATURE Doug Robert

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 10, 2012

Don Williams  
Shakespeare Oil Co., Inc.  
202 W MAIN ST  
SALEM, IL 62881-1519

Re: ACO1  
API 15-063-22016-00-00  
Zerr Trust 3-23  
SW/4 Sec.23-13S-31W  
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Don Williams