



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1082838  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1082838

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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zerr Trust 1-24
Doc ID	1082838

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 1-24
Doc ID	1082838

Tops

Name	Top	Datum
Base Anhydrite	2325	+514
Heebner	3869	-1030
Lansing	3914	-1075
Muncie Creek	4069	-1230
Stark Shale	4154	-1315
Hushpuckney	4189	-1350
Pawnee	4352	-1513
L. Cherokee Shale	4439	-1600
Johnson	4483	-1644
Mississippian	4524	-1685



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co.Inc.**

202 W Main St  
Salem IL 62881

ATTN: Steve Davis

### **Zerr Trust #1-24**

### **24-13s-31w Gove,KS**

Start Date: 2012.05.22 @ 07:25:05

End Date: 2012.05.22 @ 13:24:14

Job Ticket #: 46566                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.24 @ 14:41:32

Shakespeare Oil Co.Inc. 24-13s-31w Gove,KS Zerr Trust #1-24 DST # 1 "I & J" 2012.05.22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**24-13s-31w Gove, KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46566

**DST#: 1**

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

## GENERAL INFORMATION:

Formation: **"I & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:00

Time Test Ended: 13:24:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

**Interval: 4095.00 ft (KB) To 4193.00 ft (KB) (TVD)**

Reference Elevations: 2839.00 ft (KB)

Total Depth: 4143.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8736**

**Inside**

Press @ Run Depth: 28.37 psig @ 4104.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.22

End Date:

2012.05.22

Last Calib.:

2012.05.22

Start Time: 07:25:05

End Time:

13:24:14

Time On Btm:

2012.05.22 @ 09:34:45

Time Off Btm:

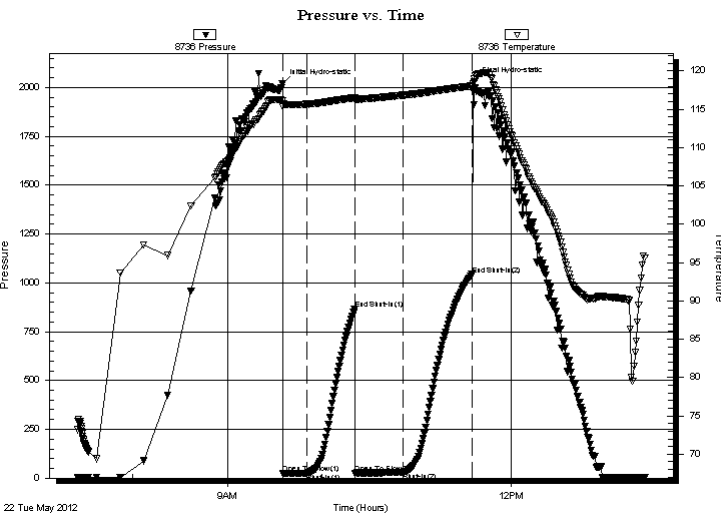
2012.05.22 @ 11:36:30

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.75	116.16	Initial Hydro-static
1	24.25	115.37	Open To Flow (1)
16	24.92	115.66	Shut-In(1)
46	864.59	116.51	End Shut-In(1)
47	25.88	116.26	Open To Flow (2)
77	28.37	116.82	Shut-In(2)
121	1042.30	118.03	End Shut-In(2)
122	2029.64	118.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil spots	0.02

## Gas Rates

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



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

Shakespeare Oil Co.Inc.

**24-13s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46566

**DST#: 1**

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

### GENERAL INFORMATION:

Formation: **"I & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:00

Time Test Ended: 13:24:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

**Interval: 4095.00 ft (KB) To 4193.00 ft (KB) (TVD)**

Reference Elevations: 2839.00 ft (KB)

Total Depth: 4143.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6668 Outside**

Press @ RunDepth: psig @ 4104.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.22 End Date: 2012.05.22

Last Calib.: 2012.05.22

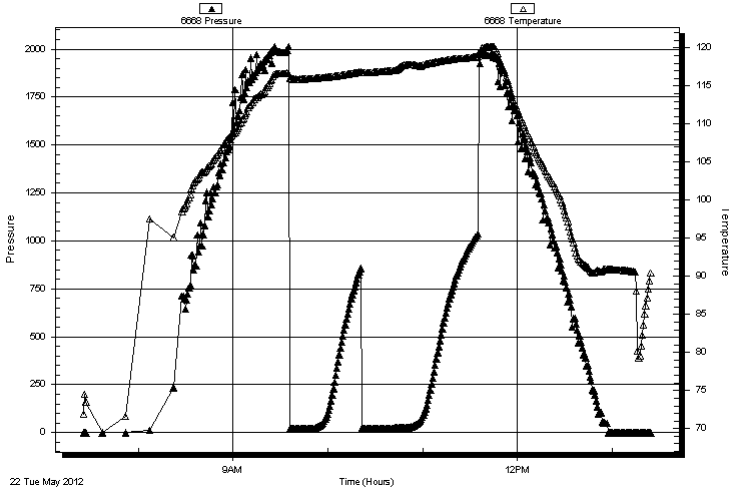
Start Time: 07:25:15 End Time: 13:24:30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Built to weak surface blow  
IS: No return blow  
FF: No blow  
FS: No return blow

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil spots	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.Inc.

**24-13s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46566

**DST#: 1**

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

## Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.80 inches	Volume: 55.59 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4095.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4068.00	
Shut In Tool	5.00			4073.00	
Hydraulic tool	5.00			4078.00	
Jars	5.00			4083.00	
Safety Joint	3.00			4086.00	
Packer	5.00			4091.00	28.00 Bottom Of Top Packer
Packer	4.00			4095.00	
Stubb	1.00			4096.00	
Perforations	8.00			4104.00	
Recorder	0.00	8736	Inside	4104.00	
Recorder	0.00	6668	Outside	4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	32.00			4137.00	
Change Over Sub	1.00			4138.00	
Bullnose	5.00			4143.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.Inc.

**24-13s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46566

**DST#: 1**

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

## 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: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil spots	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:

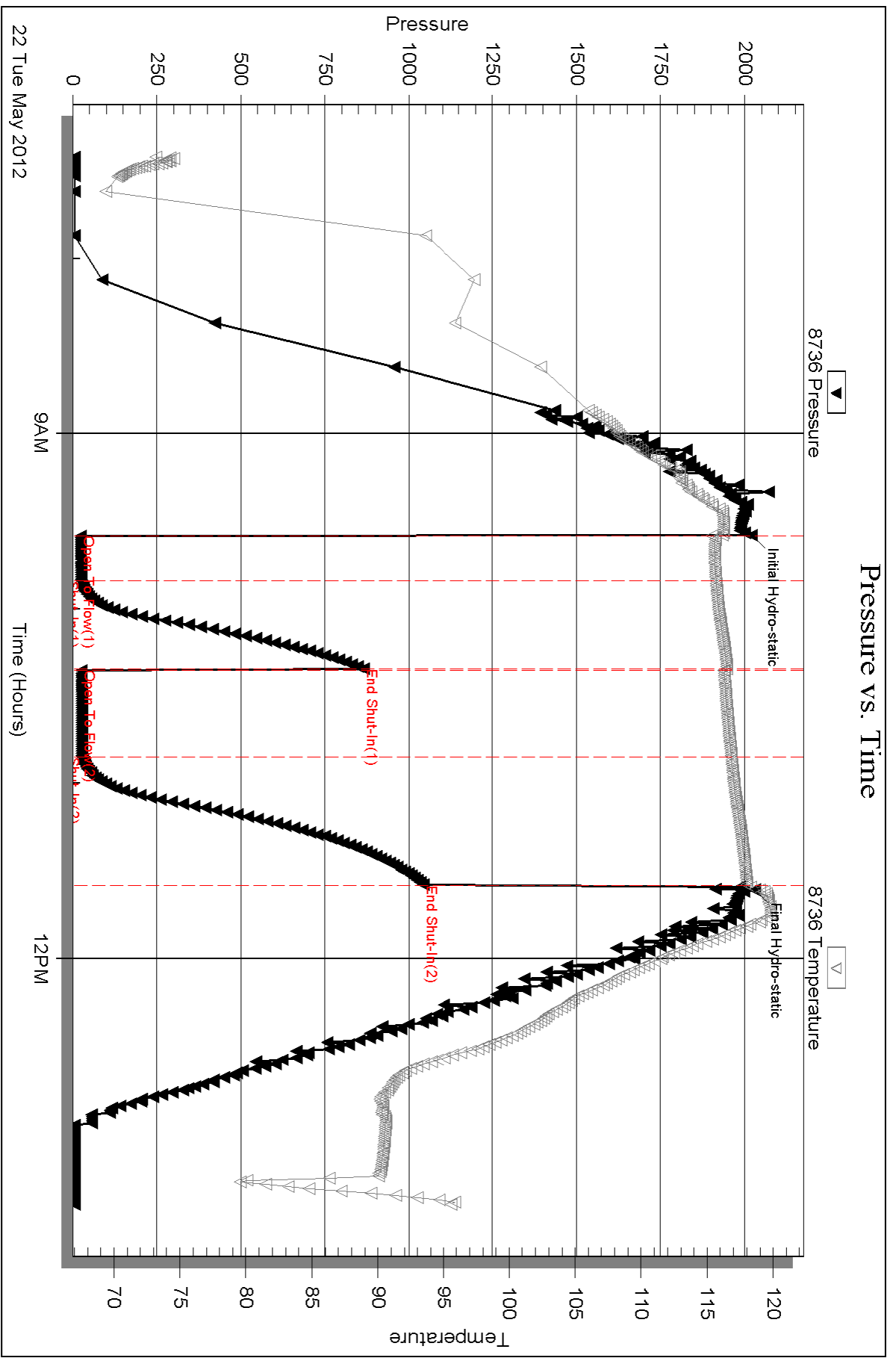
Serial #: 8736

Inside

Shakespeare Oil Co. Inc.

Zerr Trust #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46566

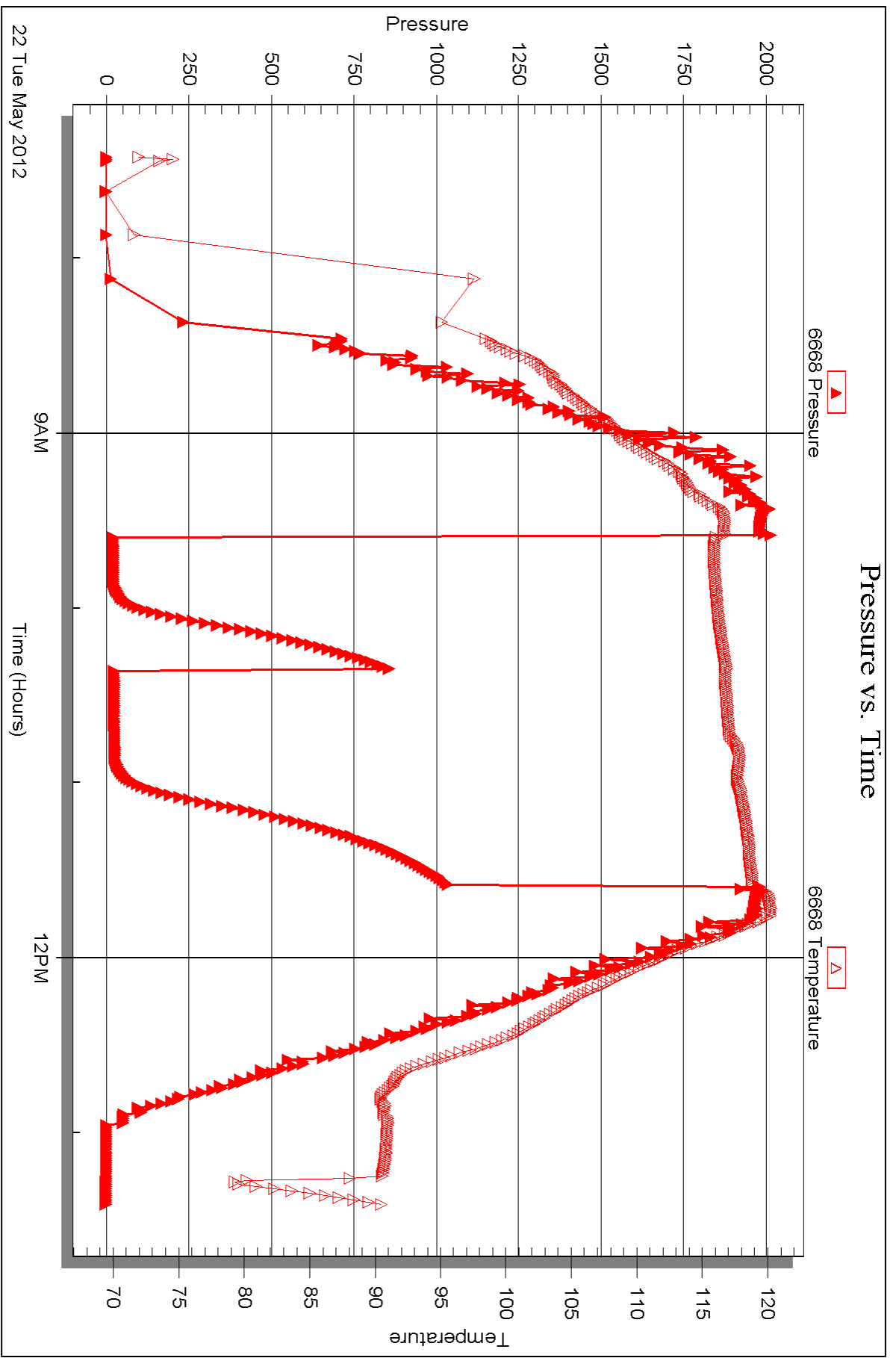
Printed: 2012.05.24 @ 14:41:35

Serial #: 6668

Outside Shakespeare Oil Co./Inc.

Zerr Trust #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46566

Printed: 2012.05.24 @ 14:41:35



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co.Inc.**

202 W Main St  
Salem IL 62881

ATTN: Steve Davis

### **Zerr Trust #1-24**

### **24-13s-31w Gove,KS**

Start Date: 2012.05.23 @ 20:47:05

End Date: 2012.05.24 @ 02:13:59

Job Ticket #: 46567                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.24 @ 14:39:37



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**24-13s-31w Gove, KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46567

**DST#: 2**

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:15

Time Test Ended: 02:13:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

**Interval: 4450.00 ft (KB) To 4494.00 ft (KB) (TVD)**

Reference Elevations: 2839.00 ft (KB)

Total Depth: 4494.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8736 Inside**

Press @ Run Depth: 33.73 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.23

End Date:

2012.05.24

Last Calib.: 2012.05.24

Start Time: 20:47:05

End Time:

02:13:59

Time On Btm: 2012.05.23 @ 22:33:00

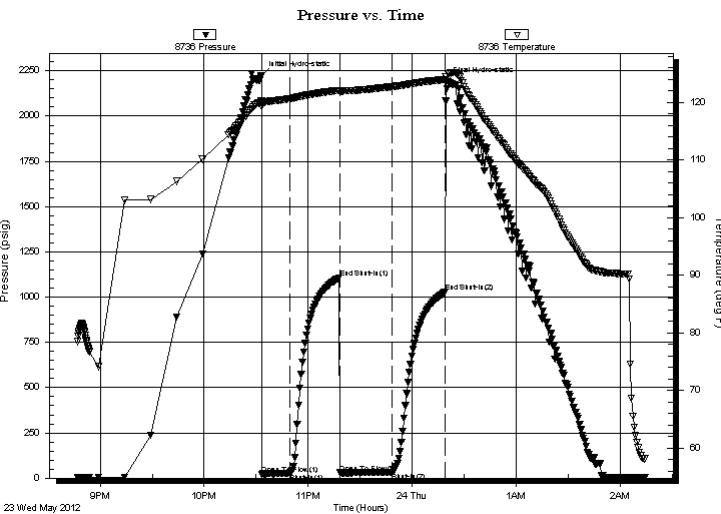
Time Off Btm: 2012.05.24 @ 00:19:45

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.85	120.24	Initial Hydro-static
1	22.13	119.32	Open To Flow (1)
17	26.83	120.64	Shut-In(1)
45	1106.07	122.11	End Shut-In(1)
46	28.68	121.79	Open To Flow (2)
76	33.73	122.74	Shut-In(2)
106	1028.01	123.93	End Shut-In(2)
107	2191.46	124.41	Final Hydro-static

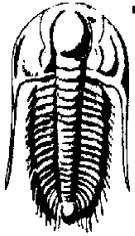
## Recovery

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.

**24-13s-31w Gove, KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46567

**DST#: 2**

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:15

Time Test Ended: 02:13:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

**Interval: 4450.00 ft (KB) To 4494.00 ft (KB) (TVD)**

Reference Elevations: 2839.00 ft (KB)

Total Depth: 4494.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6668 Outside**

Press @RunDepth: psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.23

End Date:

2012.05.24

Last Calib.:

2012.05.24

Start Time: 20:46:45

End Time:

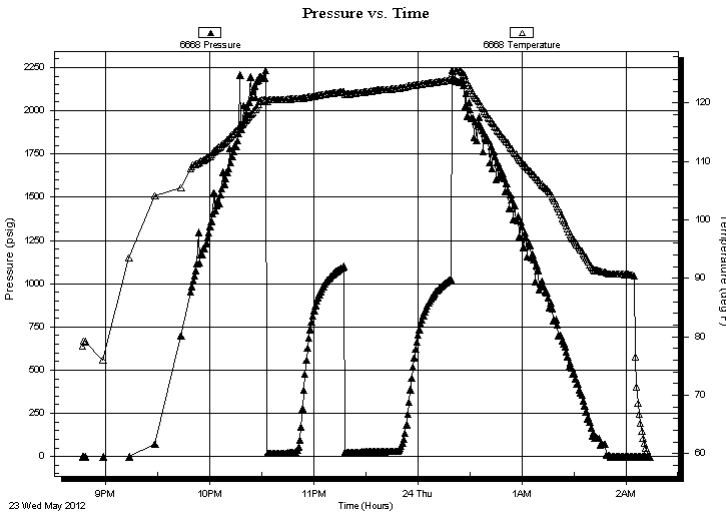
02:13:45

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Built to weak surface blow  
IS: No return blow  
FF: No blow  
FS: No return blow

### PRESSURE SUMMARY



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

### Recovery

### Gas Rates

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

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.Inc.

**24-13s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46567

**DST#: 2**

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

## Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4450.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Jars	5.00			4438.00	
Safety Joint	3.00			4441.00	
Packer	5.00			4446.00	28.00 Bottom Of Top Packer
Packer	4.00			4450.00	
Stubb	1.00			4451.00	
Perforations	4.00			4455.00	
Recorder	0.00	8736	Inside	4455.00	
Recorder	0.00	6668	Outside	4455.00	
Change Over Sub	1.00			4456.00	
Drill Pipe	32.00			4488.00	
Change Over Sub	1.00			4489.00	
Bullnose	5.00			4494.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.Inc.

**24-13s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Zerr Trust #1-24**

Job Ticket: 46567

**DST#: 2**

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

## 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 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:



Serial #: 8736

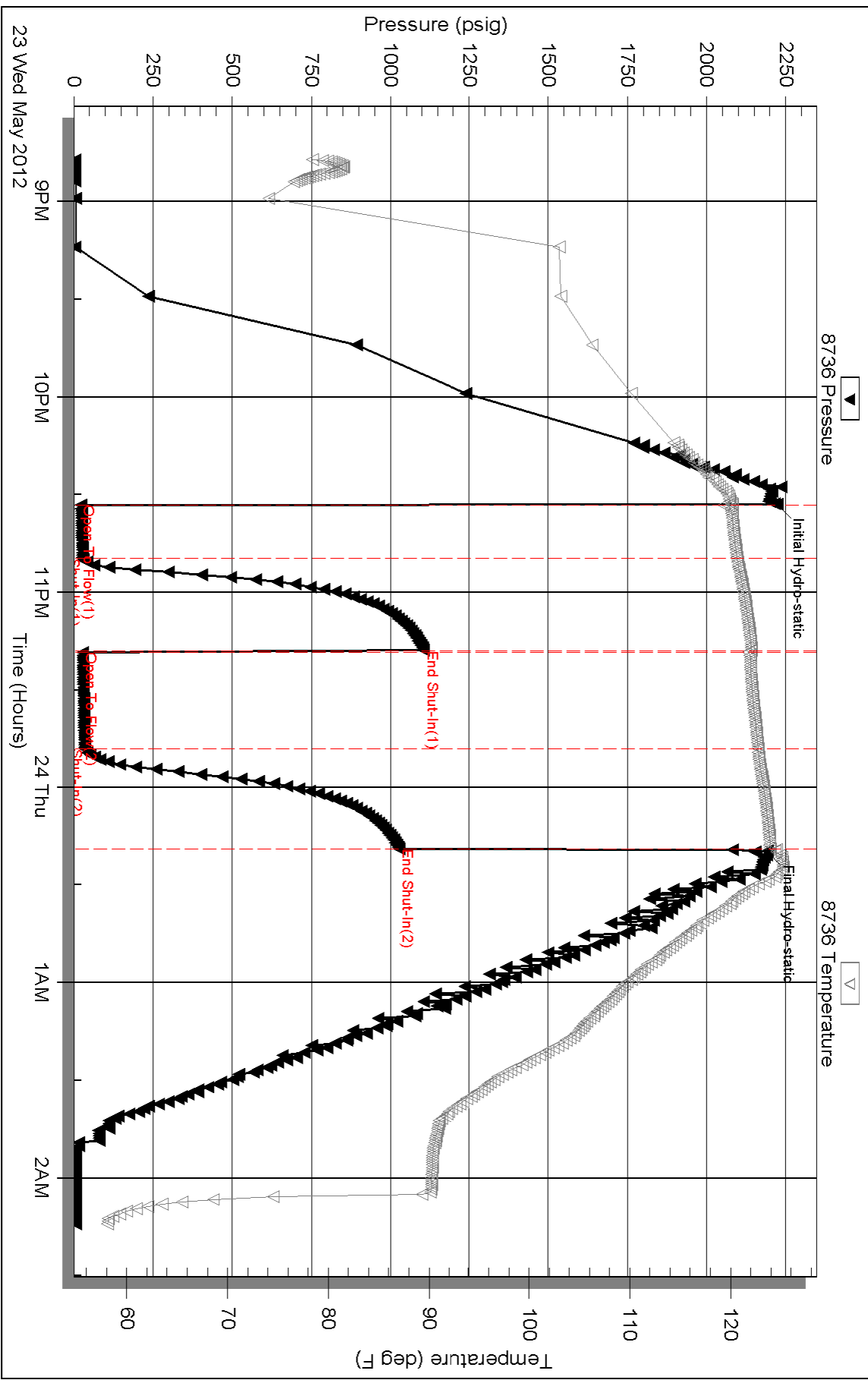
Inside

Shakespeare Oil Co. Inc.

Zerr Trust #1-24

DST Test Number: 2

### Pressure vs. Time

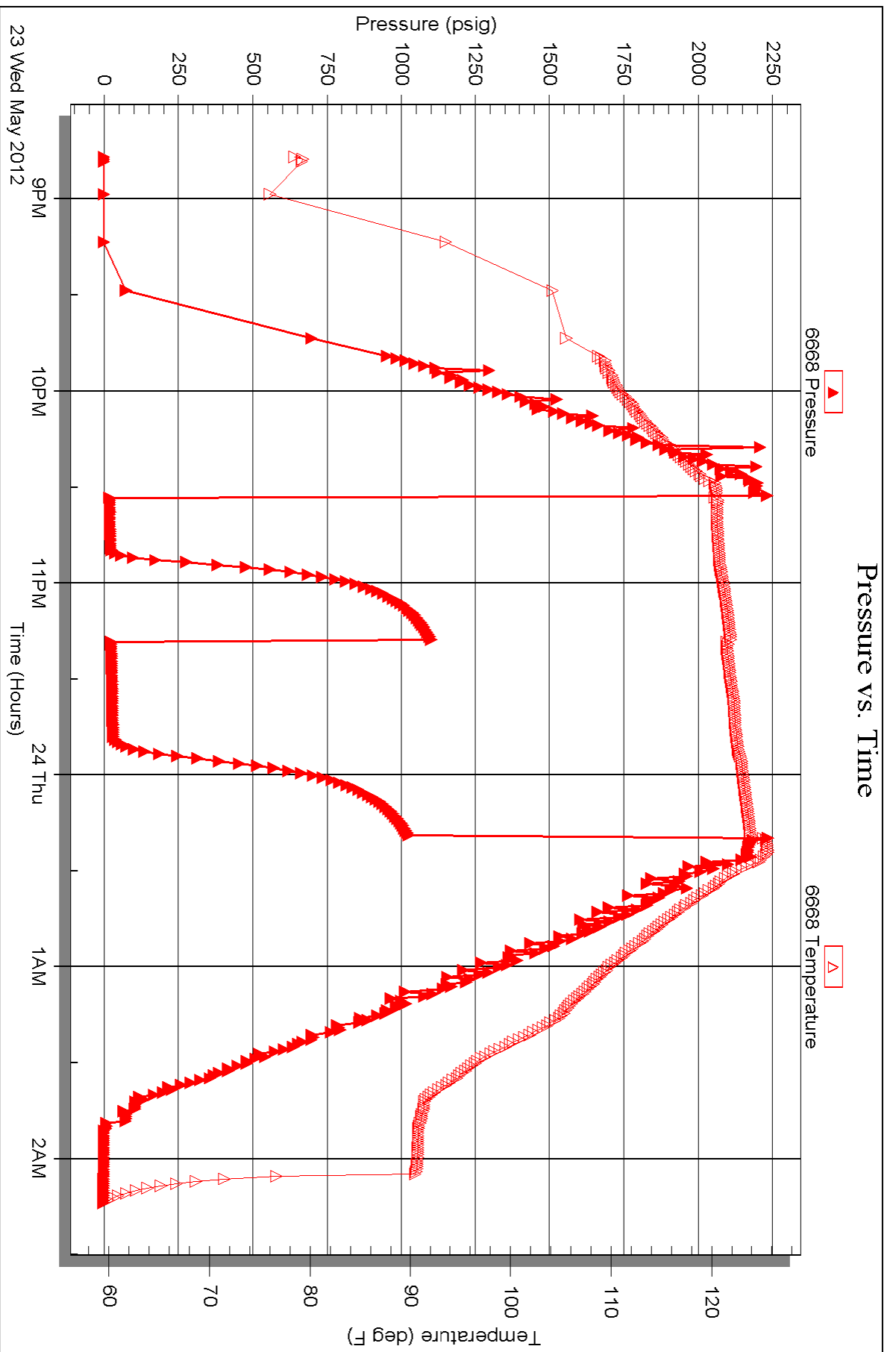


Serial #: 6668

Outside Shakespeare Oil Co. Inc.

Zerr Trust #1-24

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 46566

4/10

Well Name & No. Zerr Trust #1-24 Test No. 1 Date 5-22-12  
 Company Shakespeare Oil Co Inc. Elevation 2834 KB 2839 GL  
 Address 202 W. Main St. Salem IL 62881  
 Co. Rep / Geo. Steve Davis Rig WW#2  
 Location: Sec. 24 Twp. 13 Rge. 31 Co. Gove State KS

Interval Tested 4095-4143 Zone Tested I+J  
 Anchor Length 48 Drill Pipe Run 3963 Mud Wt. 8.7  
 Top Packer Depth 4891 Drill Collars Run 124 Vis 58  
 Bottom Packer Depth 4895 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4143 Chlorides 2200 ppm System LCM 1  
 Blow Description IF: Weak Surface Blow  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots</u>			<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 118 Gravity ✓ API RW ✓ @ ✓ °F Chlorides ✓ ppm

(A) Initial Hydrostatic <u>2020</u>	<input checked="" type="checkbox"/> Test <u>1250.00</u>	T-On Location <u>04:45</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>07:25</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>09:35</u>
(D) Initial Shut-In <u>864</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>11:35</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:24</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>100 RT = 155.00/-</u>	Comments
(G) Final Shut-In <u>1042</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2029</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u><del>30</del> 15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1730</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$1730.00/-</u>	

Approved By SA [Signature] Our Representative Mike Roberts

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 46567

4/10

Well Name & No. Zerr Trust #1-24 Test No. 2 Date 5-23-12  
 Company Shakespear Oil Co. Inc. Elevation 2834 KB 2839 GL  
 Address 202 W. Main St. Salem IL 62881  
 Co. Rep / Geo. Steve Davis Rig WW#2  
 Location: Sec. 24 Twp. 13 Rge. 31 Co. Grove State KS

Interval Tested 4450-4494 Zone Tested Johnson  
 Anchor Length 44 Drill Pipe Run 4322 Mud Wt. 9.3  
 Top Packer Depth 4446 Drill Collars Run 124 Vis 49  
 Bottom Packer Depth 4450 Wt. Pipe Run φ WL 8.0  
 Total Depth 4494 Chlorides 3800 ppm System LCM 1  
 Blow Description IF: Built to Weak Surface Blow  
IS: NO Return Blow  
FF: NO Blow  
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 124 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm  
 (A) Initial Hydrostatic 2222  Test 1250.00 T-On Location 19:45  
 (B) First Initial Flow 22  Jars 250.00 T-Started 20:47  
 (C) First Final Flow 24  Safety Joint 75.00 T-Open 22:33  
 (D) Initial Shut-In 1106  Circ Sub NL T-Pulled 00:18  
 (E) Second Initial Flow 28  Hourly Standby \_\_\_\_\_ T-Out 02:13  
 (F) Second Final Flow 33  Mileage 100 RT = \$155.00 Comments Mileage x  
 (G) Final Shut-In 1028  Sampler \_\_\_\_\_ 2 Load Tools 155  
 (H) Final Hydrostatic 2191  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 155  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1885  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total \$1730.00

Approved By \_\_\_\_\_

Our Representative Mike Roberts

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 131250  
Invoice Date: May 18, 2012  
Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Zerr Trust #1-24	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 18, 2012	6/17/12

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
207.36	SER	Ton Miles	2.35	487.30
1.00	SER	Surface	1,125.00	1,125.00
24.00	SER	Heavy Vehicle Mileage	7.00	168.00
1.00	SER	Manifold Swedge Rental	325.00	325.00
24.00	SER	Light Vehicle Mileage	4.00	96.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Adam Holcomb		

INT

10502-5  
Surface cement

RECEIVED  
MAY 29 2012

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

\$ 1443.85 25%<sup>10</sup>

ONLY IF PAID ON OR BEFORE  
Jun 12, 2012

Subtotal	5,855.40
Sales Tax	262.16
Total Invoice Amount	6,117.56
Payment/Credit Applied	\$4,653.71
<b>TOTAL</b>	<b>6,117.56</b>

DW

# ALLIED CEMENTING CO., LLC. 034485

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Osage KS

DATE <u>5/18/2013</u>	SEC. <u>24</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>3:30 pm</u>	JOB START <u>4:30 pm</u>	JOB FINISH <u>5:00 pm</u>
LEASE <u>Zerr Trust</u>	WELL # <u>1-24</u>	LOCATION <u>Osage, 11.5 - 2 Orion Rd, 35</u>			COUNTY <u>Govc</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>1w</u>					

CONTRACTOR W W #2 OWNER Sewe

TYPE OF JOB Surface

HOLE SIZE 1 1/4 T.D.

CASING SIZE 8 7/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 ft

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Lelene

# 431 HELPER Dane

BULK TRUCK

# 347 DRIVER Adam

BULK TRUCK

# DRIVER

REMARKS:

Mix 175 Sks cement

Displace with water

Cement did circulate

Thank You.

CHARGE TO: Shakespeare Oil, Co Inc.

STREET

CITY STATE ZIP

To Allied Cementing Co., 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.

PRINTED NAME Kenneth King

SIGNATURE [Signature]

CEMENT

AMOUNT ORDERED 175 com 3% cc

2% gel

COMMON 175 Sks @ 16.25 2843.75

POZMIX @

GEL 3 Sks @ 21.25 63.75

CHLORIDE 6 Sks @ 58.20 349.2

ASC @

@

@

@

@

@

@

@

@

@

HANDLING 189.24 @ 2.10 397.40

MILEAGE 8.64 x 24 x 235 487.30

TOTAL 4141.40

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 11 1125.00

EXTRA FOOTAGE @

MILEAGE 24 @ 7.00 148.00

MANIFOLD sledge @ 385.00

20 mileage @ 4.00 96.00

@

TOTAL 1714.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 131272

Invoice Date: May 25, 2012

Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Zerr Trust #1-24	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	May 25, 2012	6/24/12

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	Flo Seal	2.70	148.50
236.27	SER	Handling	2.10	496.17
24.00	SER	Ton Miles	23.22	557.23
1.00	SER	Plugged to Abandon	1,250.00	1,250.00
24.00	SER	Heavy Vehicle Mileage	7.00	168.00
24.00	SER	Light Vehicle Mileage	4.00	96.00
1.00	EQP	7 7/8 Top Wooden Plug	92.00	92.00
1.00	EQUIP OPER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Chris Wilkinson		

INT

Plus  
10502-5

RECEIVED

JUN 04 2012

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

\$ 1467.72

ONLY IF PAID ON OR BEFORE

Jun 19, 2012

Subtotal	5,870.90
Sales Tax	472.61
Total Invoice Amount	6,343.51
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,343.51</b>

DW

# ALLIED OIL & GAS SERVICES, LLC 056204

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>5-25-12</u>	SEC. <u>24</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>8:00 Am</u>	JOB START <u>8:30 Am</u>	JOB FINISH <u>10:30 Am</u>
LEASE <u>Zerr Trust</u>	WELL# <u>1-24</u>	LOCATION <u>Oakley 115 E To Orion Rd</u>			COUNTY <u>Grove</u>	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)		35-1w-1S into					

CONTRACTOR WW-2  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D.  
 CASING SIZE DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH  
 FOOL DEPTH  
 PRES. MAX DEPTH  
 MEAS. LINE MINIMUM  
 CEMENT LEFT IN CSG. SHOE JOINT  
 PERFS.  
 DISPLACEMENT 29.30  
 EQUIPMENT  
 PUMP TRUCK CEMENTER Darren R.  
1 422 HELPER Tyler  
 BULK TRUCK  
1 347 DRIVER Chris  
 BULK TRUCK  
1 DRIVER

OWNER Same

CEMENT  
 AMOUNT ORDERED 220 SKS 60/40 4% Gel  
1/4" Flo Seal

COMMON	<u>132</u>	SKS	@ <u>\$16.25</u>	# <u>2145.00</u>
POZMIX	<u>88</u>	SKS	@ <u>\$8.50</u>	# <u>748.00</u>
GEL	<u>8</u>	SKS	@ <u>\$21.25</u>	# <u>170.00</u>
CHLORIDE			@	
ASC			@	
<u>Flo Seal</u>	<u>55</u>	#	@ <u>\$2.70</u>	# <u>148.50</u>
			@	
			@	
			@	
			@	
			@	
			@	
HANDLING	<u>236.27</u>	#	@ <u>\$2.10</u>	# <u>496.17</u>
MILEAGE	<u>9.88</u>	x <u>24</u>	x <u>\$2.35</u>	# <u>557.23</u>
				TOTAL # <u>4264.40</u>

REMARKS:

mix 25 SKS Cement 2311 ft  
mix 100 SKS Cement 1409 ft  
mix 40 SKS Cement 302 ft  
mix 12 SKS Cement 40 ft  
Plug MH 15 SKS  
Plug RH 32 SKS

Thank You

CHARGE TO: Shakespeare Oil Co.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			# <u>1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>24</u>		@ <u>\$7.00</u>	# <u>168.00</u>
MANIFOLD		@	
<u>1.0 mileage</u>		@ <u>\$74.00</u>	# <u>74.00</u>
		@	
			TOTAL # <u>1514.00</u>

PLUG & FLOAT EQUIPMENT

<u>1 Top Wooden Plug</u>	@	# <u>792.00</u>
	@	
	@	
	@	
	@	
		TOTAL # <u>792.00</u>

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.

PRINTED NAME Lonnie Lang

SIGNATURE Lonnie Lang

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



# RICHARD S. (Steve) DAVIS JR.

## Petroleum Geologist

212 N. Market

Wichita, Kansas 67202

Phone (316) 267-9115

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY <u>SHAKESPEARE OIL CO., INC</u> LEASE <u>ZERR TRUST #1-24</u> FIELD <u>WILDCAT</u> LOCATION <u>1110' ESE 1/4 22S1' FWL</u> SEC <u>24</u> TWSP <u>13S</u> RGE <u>31W</u> COUNTY <u>GOVE</u> STATE <u>KANSAS</u>	ELEVATIONS KB <u>2839</u> DF _____ GL <u>2834</u> Measurements Are All From <u>KB 2839</u>
CONTRACTOR <u>NW DRILLING RIG #2</u> SPUD <u>5-18-2012</u> COMP <u>5-25-2012</u> RTD <u>4700</u> LTD <u>4707</u> MUD UP <u>3306</u> TYPE MUD <u>CHEMICAL</u>	CASING SURFACE <u>8 5/8 @ 253'</u> PRODUCTION <u>none</u> ELECTRICAL SURVEYS Weatherford: <u>CND, DI,</u> MICRO: <u>SONIC</u>

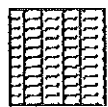
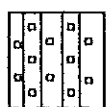


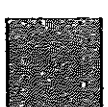
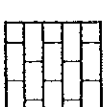
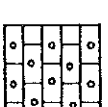
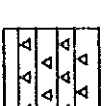

SAMPLES SAVED FROM 3700 TO RTD  
 DRILLING TIME KEPT FROM 3700 TO RTD  
 SAMPLES EXAMINED FROM 3700 TO RTD  
 GEOLOGICAL SUPERVISION FROM 3700 TO RTD  
 GEOLOGIST ON WELL STEVE DAVIS

FORMATION TOPS	LOG	SAMPLES	
<u>GLAUCONITE</u>	<u>2324-315</u>	<u>2321</u>	
<u>NEEBNER</u>	<u>3869-1030</u>	<u>3865</u>	
<u>LANSING</u>	<u>3915-1076</u>	<u>3907</u>	
<u>MUNCIE CREEK</u>	<u>4068-1229</u>	<u>4064</u>	
<u>STARK</u>	<u>4154-1315</u>	<u>4149</u>	
<u>BKC</u>	<u>4229-1390</u>	<u>4225</u>	
<u>FORT SCOTT</u>	<u>4412-1573</u>	<u>4407</u>	
<u>CHEROKEE SH</u>	<u>4438-1599</u>	<u>4433</u>	
<u>JOHNSON ZONE</u>	<u>4483-1644</u>	<u>4478</u>	
<u>MISSISSIPPI</u>	<u>4525-1686</u>	<u>4520</u>	

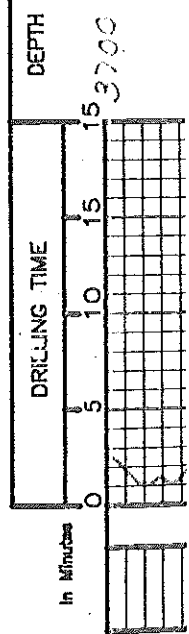
API# 15-063-21991

DAILY PENETRATION		BIT RECORD						
DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
S-18-12	Spud	1	12 1/4	SA	PT	253	253	2 1/4
S-19	1030	2	7 7/8	SA	PDC	3305	3052	3 1/4
S-20	2960	3	7 7/8	SA	E27	4143	337	2 3/4
S-21	2740	4	7 7/8	SA	E27 RR	4700	557	2 8/10
S-22	4142							
S-23	4390							
S-24	4530							
S-25	4700							

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Ool.Lime
-  Chert
-  Dolomite

SCALE " = 100'



DEPTH	SAMPLE DESCRIPTION	REMARKS
0		
5		
10		
15		
3700		

Vis. S8 WE87 Fil. 7.2  
CH. 2.200 PH 110 CCM 114  
S-21.12@ 3746

Shale black-gray-green fine  
fine

SS brown-gray fine  
dense

SS siliceous shale gray-green  
black

SS fine brown-gray dense  
fine

Shale

SS off-white-tan fine  
massive

SS SS with some s. P. 1000

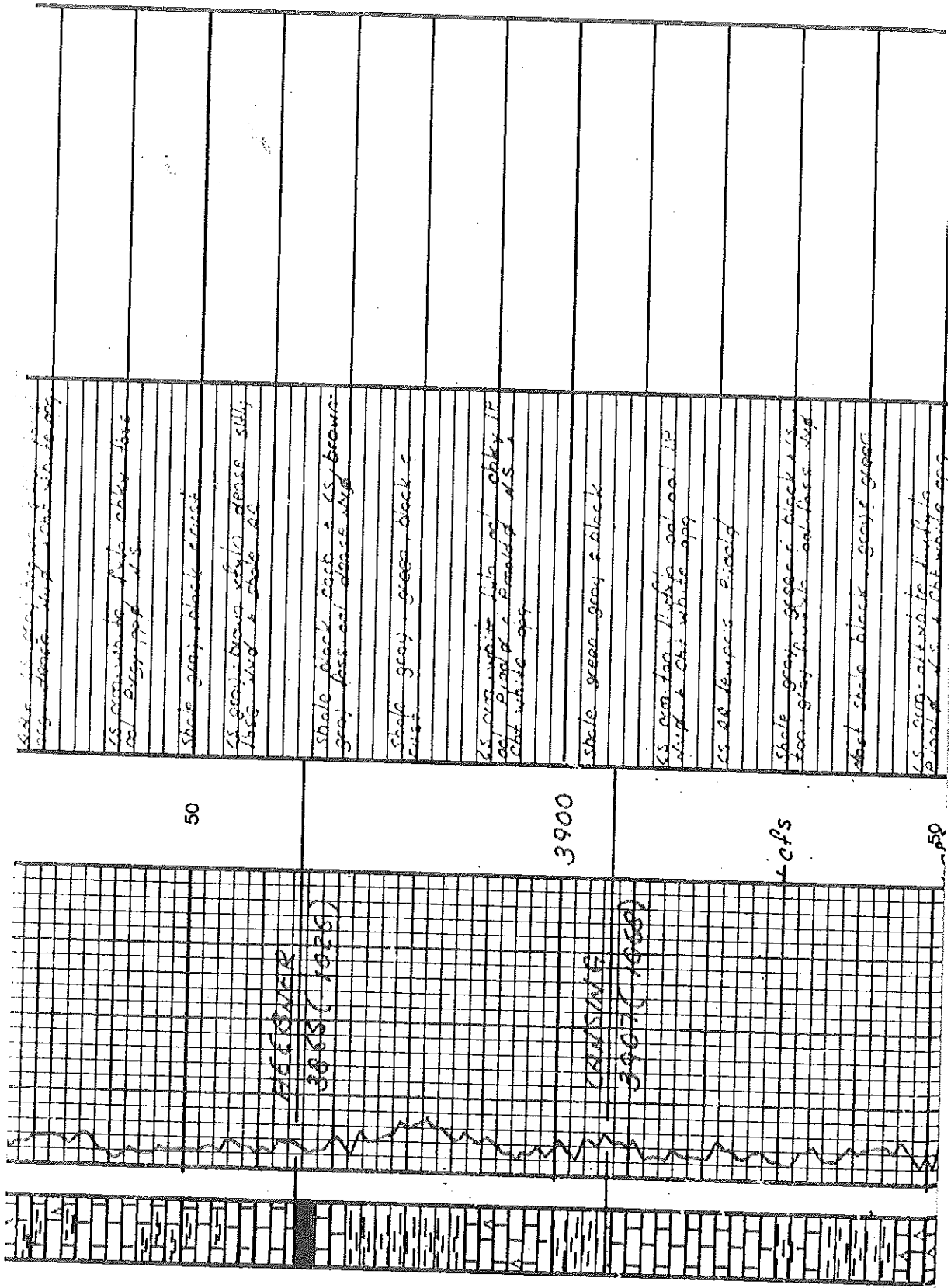
50

50

3800



0



ls. gray - dense - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in.

ls. cream white - fine chky. line - 1/2 in. to 1/4 in.

stone gray - black crust

ls. gray - brown - sily. dense sily. - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in.

shale black - carb. - ls. brown - gray - fine - 1/2 in. to 1/4 in.

shale gray - green - black - 1/2 in. to 1/4 in.

ls. cream white - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in.

shale green - gray - black

ls. cream - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in.

ls. or lamp - 1/2 in. to 1/4 in.

shale gray - green - black - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in.

shale black - gray - green

ls. cream - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in. - 1/2 in. to 1/4 in.

50

3900

405

50

FIFESUMER

3865 (1826)

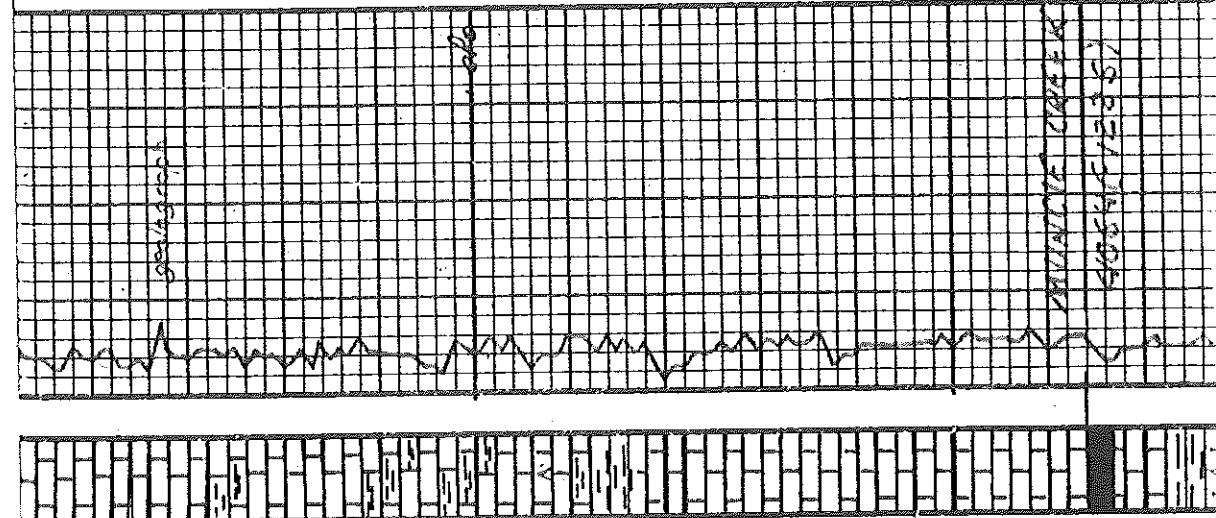
CRASUM

3907 (1866)

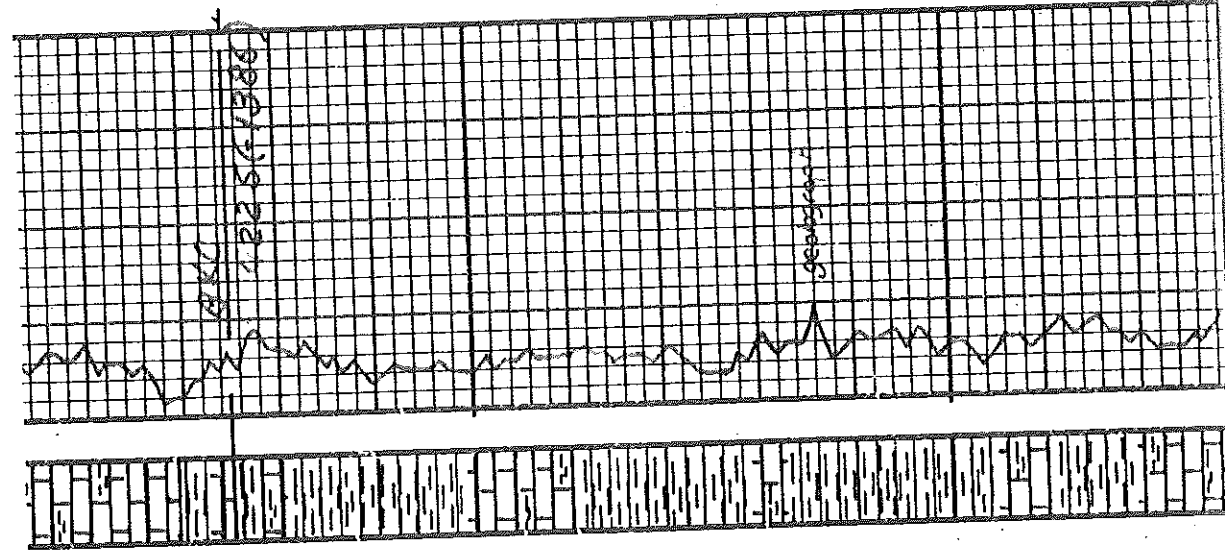
LS con-white fish LS + chert gray + white app
LS con-white fish cherty IP mud + shale black gray
LS tan-con-white fish shaly IP + LS tan white and IP dense shaly
LS con-white fish pisolite LS + chert white app
LS con-white fish trace P coal mass of LS
LS shale rust + green + black + chert brown trace
LS con-white fish P coal mass of LS
LS tan-gray white shaly dense + chert shale rust green + black plough
LS tan-gray fish + chert shale shaly
LS con-white fish cherty IP + LS tan-gray white shaly dense + chert shale black gray + green + rust
shale black part LS gray-tan fish shaly + coal app
shale gray-black + LS brown green shale + coal + shaly

4000

50







cp/s

50

4300

15. 88. sandst. ls. tan. gray. white  
 oil w/d  
 ls. cream white. sh. silty. oil. no. h.  
 dark. w/d. + shale. black. gray.  
 rust. brown. + green  
 Shale. var. calc. + ls. tan. brown.  
 white. silty. base. oil. dense. w/d  
 Mast. shale. rust. gray. green. +  
 black. + ls. brown. white. dense.  
 oil.  
 Mast. shale. var. calc. + ls. brown.  
 white. dense. oil. w/d  
 ls. tan. gray. lentic. silty. fine.  
 pr. oil. ls.  
 ls. 88. + sh. shale. gray. black.  
 shale. rust. green. black. +  
 gray.  
 Mast. shale. 88. + ls. brown. mica. sh.  
 dense.  
 shale. sand. black. rust. green. +  
 ls. brown. gray. lentic. silty.  
 fine. oil. sh.  
 loc. ls. tan. gray. silty. clay. ls.  
 w/d. + ls. gray. white. oil.  
 black. shale. black. gray. green. +  
 rust.  
 ls. tan. gray. silty. mica. sh. w/d.

Vis 53 4192

Vis. 49 WA. 93 F.I. 80  
 Chl. 3,800 PH10 CCM.S#  
 S-23-12 @ 4400

DST #2 4450-4494  
 15-30-30-30

LS. GR. & LS. GRAY. TOP. FINE. SILTY  
 FINE. OOL. CHLY. - 200-250. 1/2" dia.

Shale black carb., gray, green  
 dust

LS. tan-brown silty dense  
 ool. gray. tan, brown. app.

LS. GRAY. TOP. FINE. SILTY. FINE. OOL.  
 FINE. FINE. LS. - 1/2" dia.

Shale black carb.

Shale gray black, green & rust

LS. GRAY. WHITE. FINE. SILTY. OOL.  
 PH. LY. DUST. LS. - 1/2" dia.

Shale black carb.

LS. dk. brn. & gray mica xln  
 dense. app.

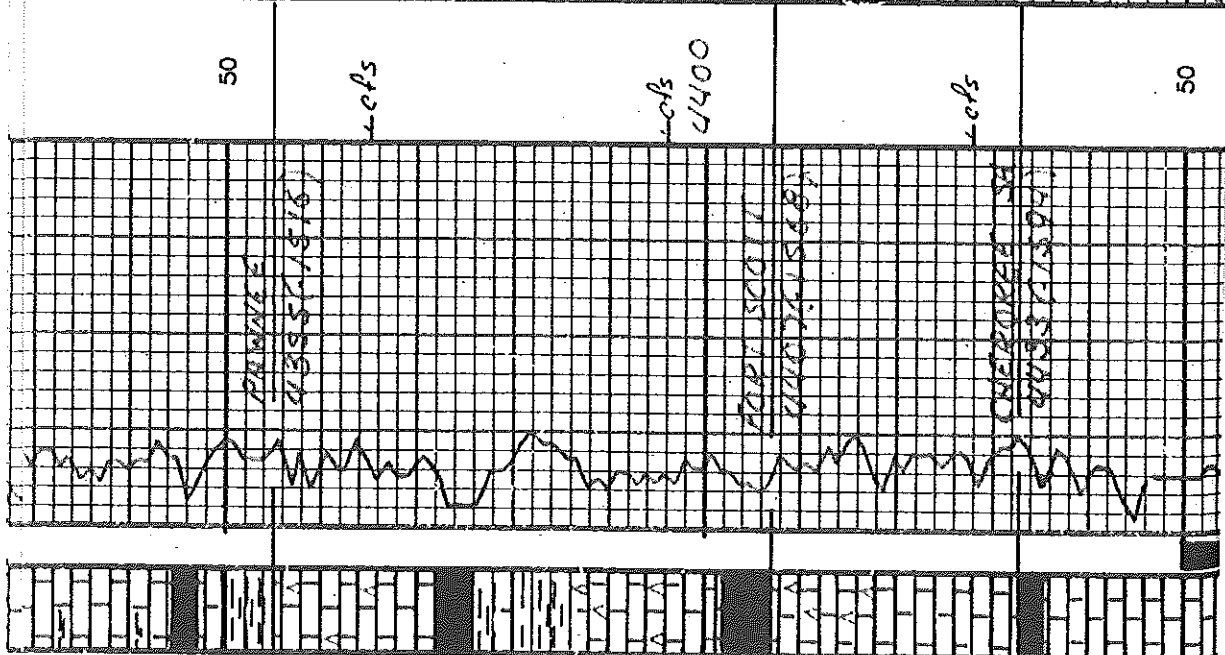
LS. gray-brown silty mica xln  
 silty fine. dense. ool. & ool.

LS. tan-brown mica xln. ool. dense  
 dust. 1/2" dia.

Shale black carb.

LS. gray-brown. FINE. OOL. FINE. OOL.  
 FINE. OOL. LS. & Ool. Gray. number  
 1/2" dia.

LS. GRAY. TOP. FINE. SILTY. DENSE. OOL. DENSE.



PR. 10/16/82  
 4192-4194

PR. 10/16/82  
 4192-4194

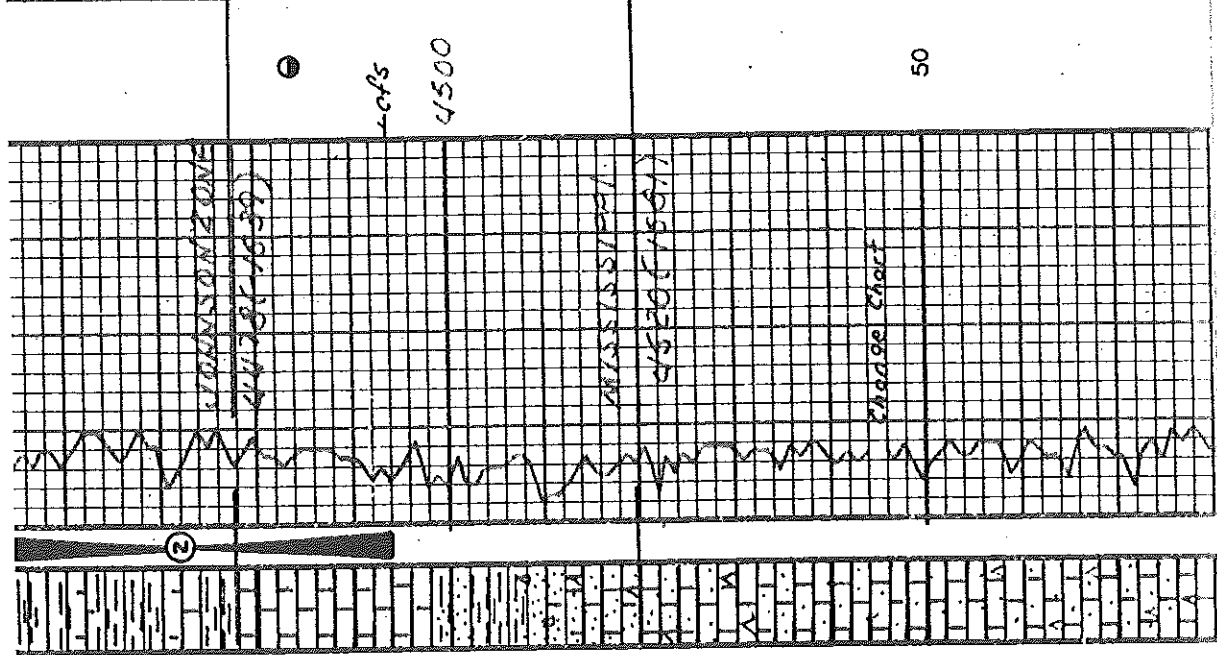
CH. 10/16/82  
 4192-4194



1.F Weak surface  
 FE No blow  
 RECOVERY: 5'M  
 1.H.P. 22.22#  
 1.F.P. 22.26#  
 1.S.I.P. 1106#  
 F.F.P. 28.33#  
 F.S.I.P. 1028#  
 F.H.P. 2191# B.H.T. 124°

Vis. 61 Wt 9.3 Fl. 8.8  
 CCM 4,000 PH10.5  
 S-24-120 4570

1.S. brown-gray x-l. calc. sh. - brown  
 mud + shale black carb - subcarb  
 1.S. tan shale gray green &  
 rust + LS brown gray sh. - dense  
 mud  
 1.S. tan gray ls. in silt. part  
 every 4" of parting 5 S.S. calc.  
 no. 1.25 silt. solid sh. - blue  
 granular  
 Shale green red rust black &  
 gray + SS part. calc. sh. -  
 red. silt. sh. - medium coarse. fine  
 calc. sh. black shale rust. S.S. &  
 LS w/ shale iron above  
 About shale rust red gray & black  
 + SS. tan. calc. sh. - brown subcarb. -  
 mud. well sort. few silt. w/ gray & dk  
 shale. rust. calc. sh. - F.S. & LS  
 shaly + calc. sh. -  
 1.S. tan. off white ls. sh. calc. sh. -  
 mud + SS & shale SS & calc. white  
 mud + LS brown. tan. silt. sh. -  
 mud dense  
 1.S. green-white ls. sh. calc. sh. -  
 mud + SS gray. fine. coarse mud  
 1.S. SS + LS tan. brown. ls. sh. -  
 dense mud  
 1.S. gray-white ls. sh. calc. sh. -  
 mud  
 1.S. tan. calc. sh. - dense mud + LS  
 tan. green-white sh. - calc. sh. -  
 tan. white



1.S. brown-gray x-l. calc. sh. - brown  
 mud + shale black carb - subcarb  
 1.S. tan shale gray green &  
 rust + LS brown gray sh. - dense  
 mud  
 1.S. tan gray ls. in silt. part  
 every 4" of parting 5 S.S. calc.  
 no. 1.25 silt. solid sh. - blue  
 granular  
 Shale green red rust black &  
 gray + SS part. calc. sh. -  
 red. silt. sh. - medium coarse. fine  
 calc. sh. black shale rust. S.S. &  
 LS w/ shale iron above  
 About shale rust red gray & black  
 + SS. tan. calc. sh. - brown subcarb. -  
 mud. well sort. few silt. w/ gray & dk  
 shale. rust. calc. sh. - F.S. & LS  
 shaly + calc. sh. -  
 1.S. tan. off white ls. sh. calc. sh. -  
 mud + SS & shale SS & calc. white  
 mud + LS brown. tan. silt. sh. -  
 mud dense  
 1.S. green-white ls. sh. calc. sh. -  
 mud + SS gray. fine. coarse mud  
 1.S. SS + LS tan. brown. ls. sh. -  
 dense mud  
 1.S. gray-white ls. sh. calc. sh. -  
 mud  
 1.S. tan. calc. sh. - dense mud + LS  
 tan. green-white sh. - calc. sh. -  
 tan. white



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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 05, 2012

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

Re: ACO1  
API 15-063-21991-00-00  
Zerr Trust 1-24  
SW/4 Sec.24-13S-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