



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1202470  
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: \_\_\_\_\_

1202470

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Schowalter 1-32
Doc ID	1202470

All Electric Logs Run

Dual Induction
Comp Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Schowalter 1-32
Doc ID	1202470

Tops

Name	Top	Datum
Base Anhydrite	2478	+682
Heebner	4010	-850
Lansing	4054	-894
Muncie Creek	4246	-1086
Stark Shale	4339	-1179
Hushpuckney	4386	-1226
Pawnee	4554	-1394
L. Cherokee Shale	4639	-1479
Johnson	4684	-1524
Mississippian	4852	-1692





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**32-16s-34w Scott,KS**

202 W Main ST  
Salem IL, 62881 - 1519

**Schwalter #1-32**

Job Ticket: 56469

**DST#: 1**

ATTN: Tim Priest

Test Start: 2014.04.17 @ 04:45:00

## GENERAL INFORMATION:

Formation: **Marmaton " A & B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:25:00

Time Test Ended: 11:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: **4493.00 ft (KB) To 4538.00 ft (KB) (TVD)**

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4538.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 33.50 psig @ 4494.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.17

End Date:

2014.04.17

Last Calib.:

2014.04.17

Start Time: 04:45:15

End Time:

11:45:00

Time On Btm:

2014.04.17 @ 07:24:15

Time Off Btm:

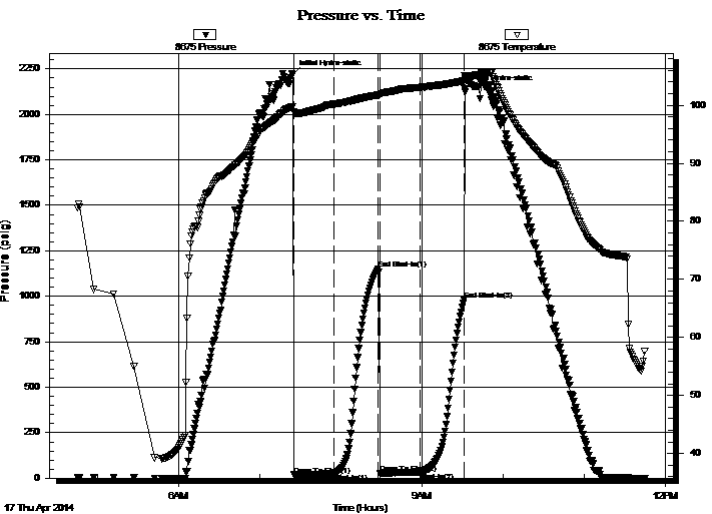
2014.04.17 @ 09:31:30

TEST COMMENT: Built to 1/4" blow

No return blow

No blow

No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.22	99.81	Initial Hydro-static
1	17.43	98.93	Open To Flow (1)
31	24.46	100.18	Shut-In(1)
63	1149.29	101.75	End Shut-In(1)
65	27.24	101.77	Open To Flow (2)
95	33.50	103.08	Shut-In(2)
127	981.08	104.19	End Shut-In(2)
128	2139.27	105.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Company, Inc.

**32-16s-34w Scott,KS**

202 W Main ST  
Salem IL, 62881 - 1519

**Schowalter #1-32**

Job Ticket: 56469

**DST#: 1**

ATTN: Tim Priest

Test Start: 2014.04.17 @ 04:45:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

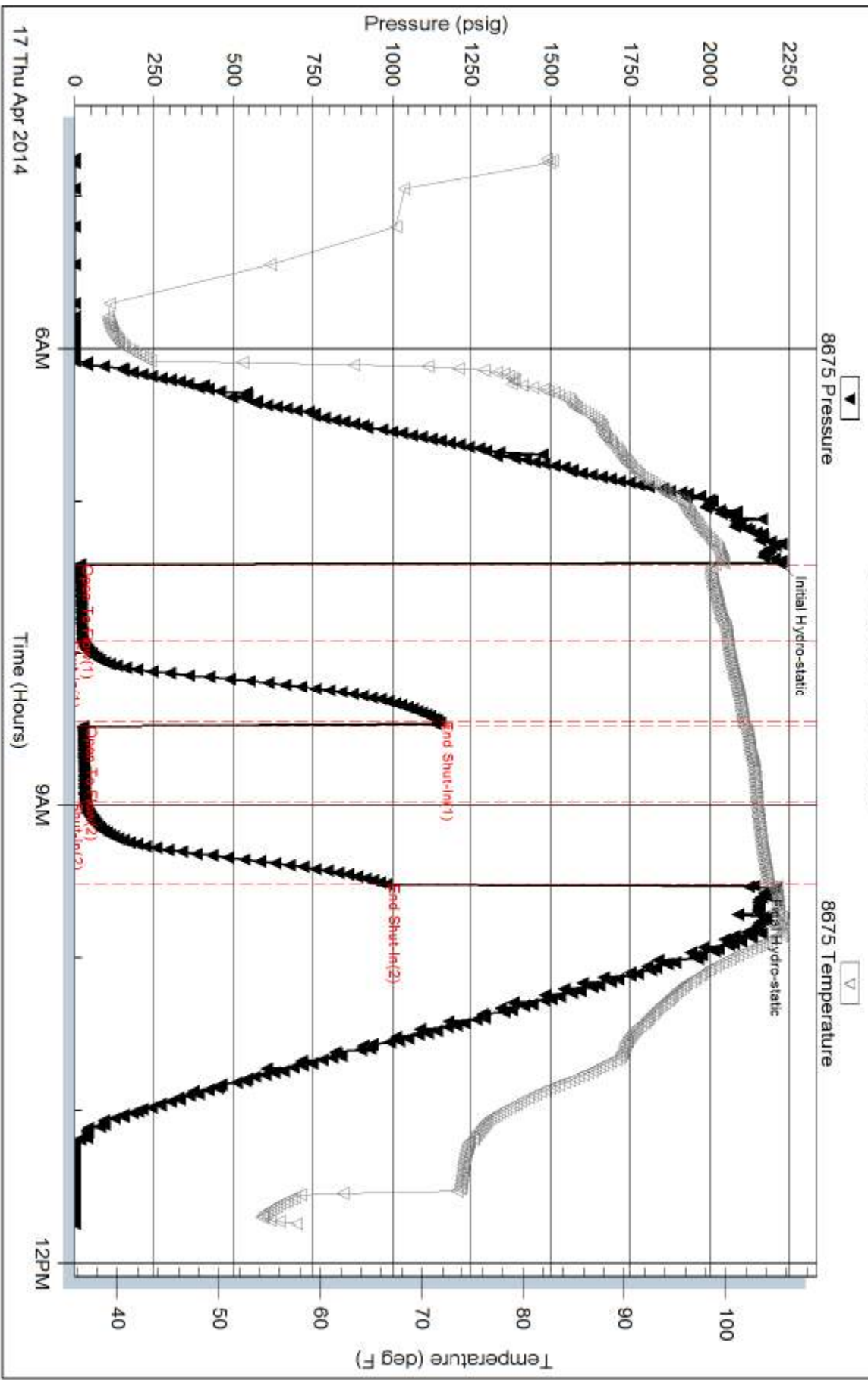
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**32-16s-34w Scott Co, KS**

202 W Main ST  
Salem IL, 62881 - 1519

**Schowalter #1-32**

Job Ticket: 56470

**DST#: 2**

ATTN: Tim Priest

Test Start: 2014.04.18 @ 06:35:00

## GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:19:00

Time Test Ended: 13:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: **4618.00 ft (KB) To 4645.00 ft (KB) (TVD)**

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4645.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 15.92 psig @ 4619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.18

End Date:

2014.04.18

Last Calib.:

2014.04.18

Start Time: 06:35:15

End Time:

13:39:00

Time On Btm:

2014.04.18 @ 09:18:30

Time Off Btm:

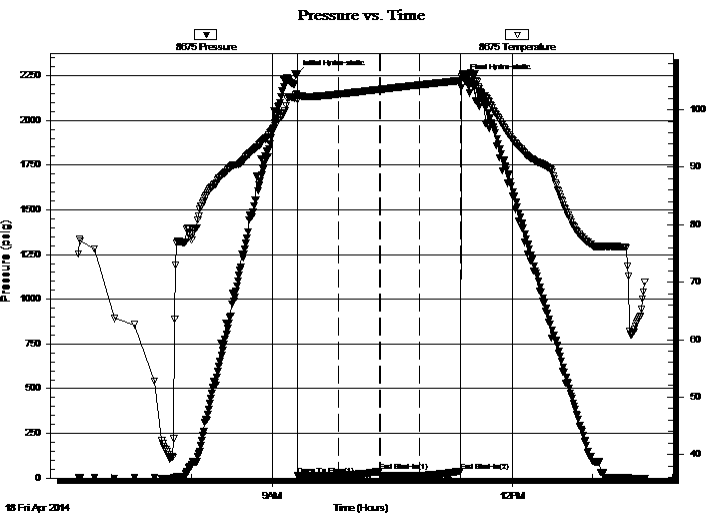
2014.04.18 @ 11:23:30

TEST COMMENT: Weak surface blow

No return blow

No blow

No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.69	102.78	Initial Hydro-static
1	14.64	101.67	Open To Flow (1)
32	16.12	102.71	Shut-In(1)
62	37.64	103.53	End Shut-In(1)
63	15.26	103.54	Open To Flow (2)
92	15.92	104.31	Shut-In(2)
123	39.65	105.09	End Shut-In(2)
125	2233.47	106.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	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 Company, Inc.

**32-16s-34w Scott Co, KS**

202 W Main ST  
Salem IL, 62881 - 1519

**Schowalter #1-32**

Job Ticket: 56470

**DST#: 2**

ATTN: Tim Priest

Test Start: 2014.04.18 @ 06:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	100% Mud	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:

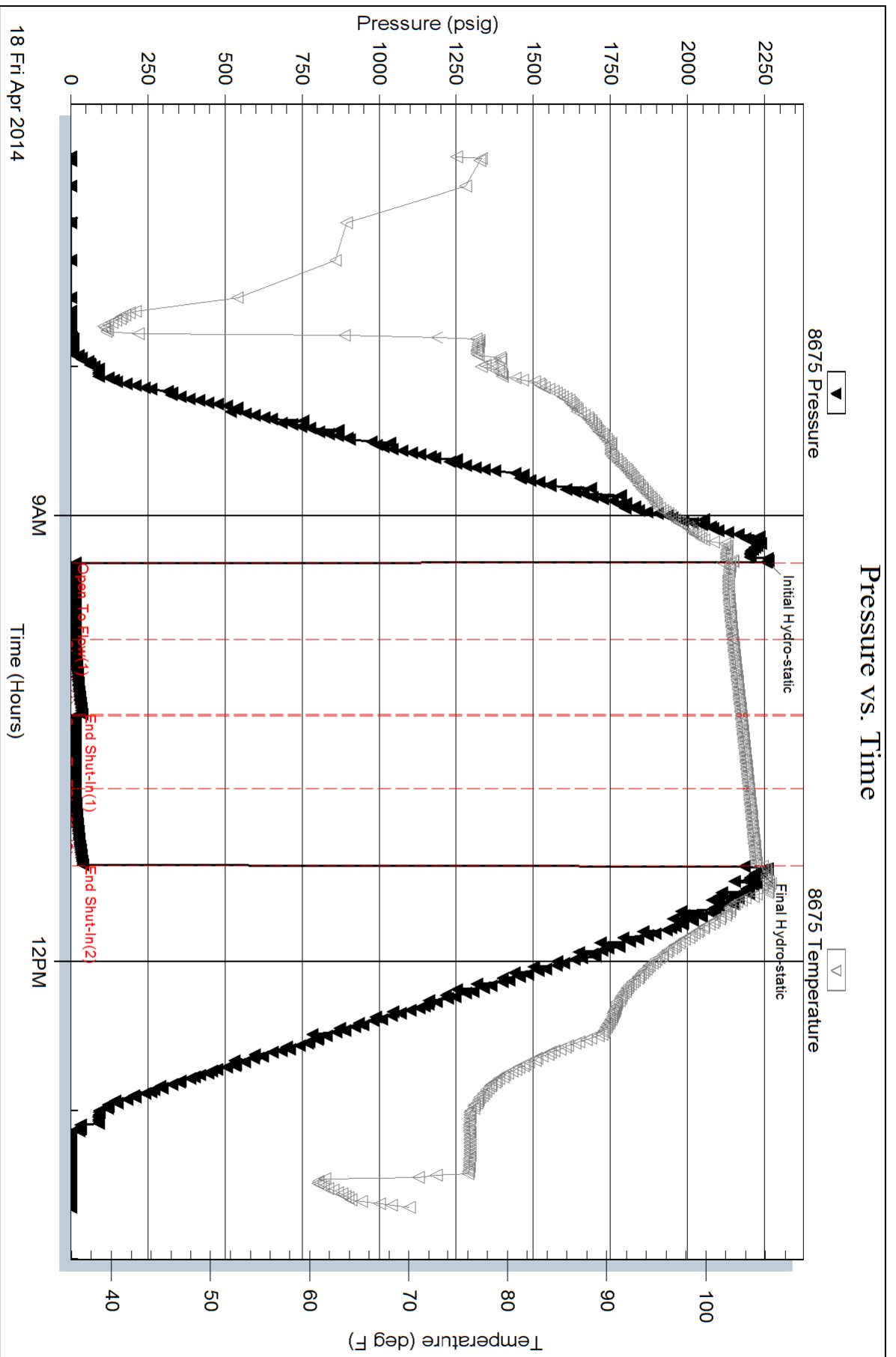
Serial #: 8675

Inside

Shakespeare Oil Company, Inc.

Schow alter #1-32

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56470

Printed: 2014.04.18 @ 20:43:49



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**32-16s-34w Scott Co, KS**

202 W Main ST  
Salem IL, 62881 - 1519

**Schowalter #1-32**

Job Ticket: 56471

**DST#: 3**

ATTN: Tim Priest

Test Start: 2014.04.19 @ 08:35:00

## GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:04:30

Time Test Ended: 17:20:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 4685.00 ft (KB) To 4770.00 ft (KB) (TVD)**

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4770.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 46.15 psig @ 4686.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.19

End Date: 2014.04.19

Last Calib.: 2014.04.19

Start Time: 08:35:15

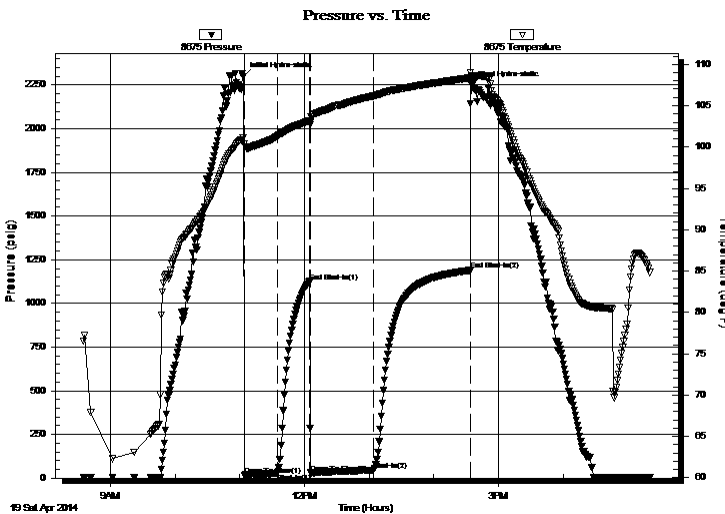
End Time: 17:20:30

Time On Btm: 2014.04.19 @ 11:03:00

Time Off Btm: 2014.04.19 @ 14:35:00

**TEST COMMENT:** Built to 1/2" blow  
No return blow  
Built to 1/4" blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.59	101.11	Initial Hydro-static
2	17.96	100.43	Open To Flow (1)
32	29.65	101.32	Shut-In(1)
62	1125.34	103.16	End Shut-In(1)
63	30.01	102.99	Open To Flow (2)
121	46.15	106.17	Shut-In(2)
211	1189.46	108.37	End Shut-In(2)
212	2248.66	108.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	100% Mud w ith oil scum	0.30

\* 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 Company, Inc.

**32-16s-34w Scott Co, KS**

202 W Main ST  
Salem IL, 62881 - 1519

**Schowalter #1-32**

Job Ticket: 56471

**DST#: 3**

ATTN: Tim Priest

Test Start: 2014.04.19 @ 08:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100% Mud with oil scum	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

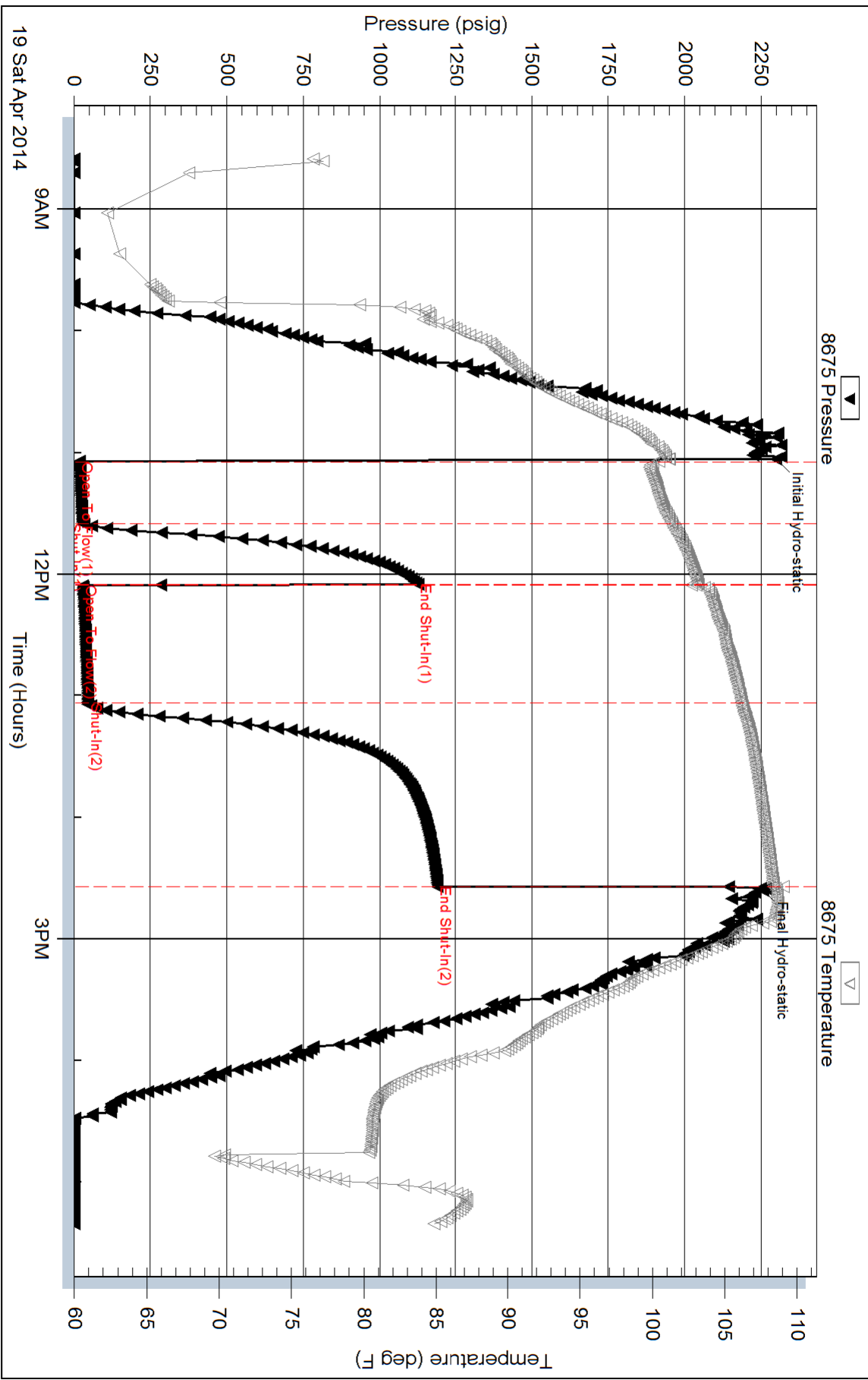
Inside

Shakespeare Oil Company, Inc.

Schwallier #1-32

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

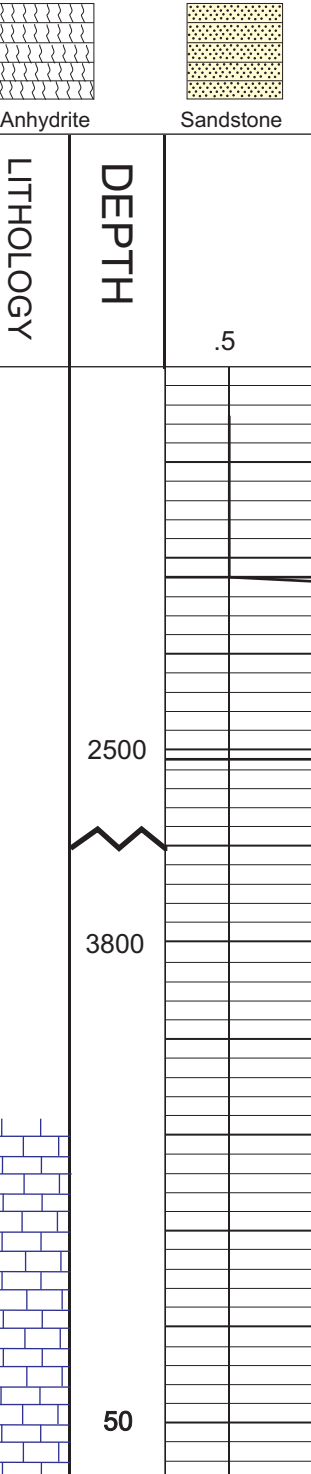
Ref. No: 56471

Printed: 2014.04.19 @ 23:23:36

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

COMPANY **SHAKEAPEARE OIL CO.** ELEVATIONS  
 LEASE **Shawnee-1-23** KG 3160'  
 FIELD **Wildcat** DF \_\_\_\_\_  
 LOCATION **550 FMS, 1900' TEL** GL 3150'  
 SEC **32 T15SP 16S R0E 34W**  
 COUNTY **Scott** STATE **Kansas** Measurements Are All From **KB**  
 CONTRACTOR **HD Rig #2** From **KB**  
 SPUD **4-8-14** COMP **4-20-14**  
 RTD **4:871** LTD **4:859** CASING  
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTION **N/A**  
 SAMPLES SAVED FROM **3800'** to RTD SURFACE **8-5/8" @ 260'**  
 DRILLING TIME KEPT FROM **3800'** to RTD PRODUCTION **Name**  
 SAMPLES EXAMINED FROM **3800'** to RTD **ELECTRICAL**  
**SURVEYS**  
 GEOLOGICAL SUPERVISION FROM **3900'** to RTD **CND/D/SP/PE**  
 GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anyvrite	2460 (-700)	2482 (+678)
Heebner Shale	4010 (-830)	4023 (-863)
Austinlg	4054 (-894)	4069 (-909)
SARC	4339 (-1179)	4351 (-1191)
BRC	4433 (-1273)	4445 (-1285)
Fort Scott	4612 (-1452)	4623 (-1463)
Cherokee Shale	4639 (-1479)	4652 (-1492)
Mississippian	est 4854 (-1694)	4864 (-1704)

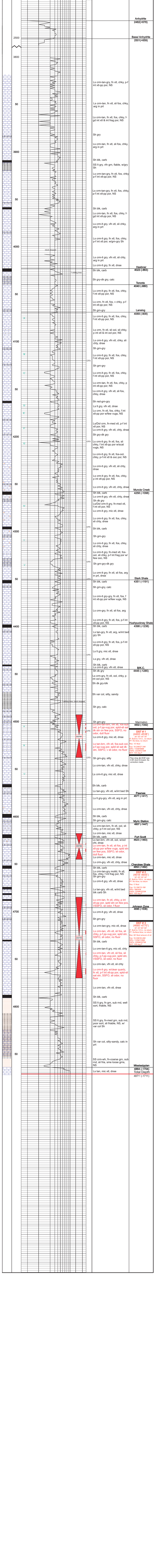


REMARKS

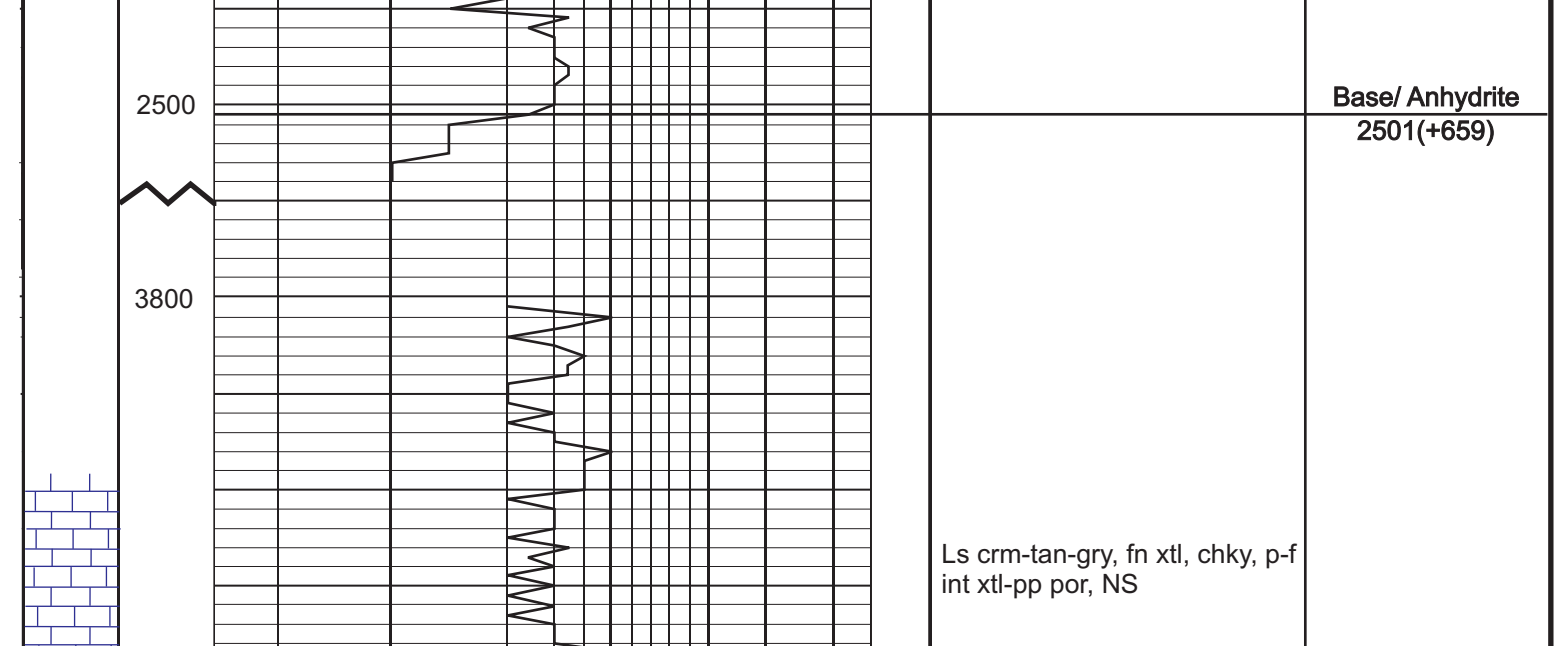
Respectfully Submitted,

API #15-171-21045-00-00

Tim Priest  
 Petroleum Geologist



**LEGEND**



DEPTH	LITHOLOGY	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
2500	Anhydrite			Anhydrite 2482(+678)
2501	Base/ Anhydrite			2501(+659)
3800	Shale		LS crm-tan-gry, fn xtl, chky, p-f int xtl-pp por, NS	
50	Shale		LS crm-tan, fn xtl, sli fos, chky, arg in prt	
3900	Shale		LS crm-tan, fn xtl, fos, chky, f-gd int xtl & int frag por, NS	
50	Shale		Sh gry	
3900	Shale		LS crm-tan, fn xtl, sli fos, chky, arg in prt	
50	Shale		Sh blk, carb	
3900	Shale		SS It gry, vfn grn, fiable, w/gry Sh	
50	Shale		LS crm-tan-gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
3900	Shale		LS crm-tan-gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
50	Shale		Sh blk, carb	
3900	Shale		LS crm-tan, fn xtl, fos, chky, f-gd int xtl-pp por, NS	
50	Shale		LS crm-lt gry, vfn xtl, sli chky, arg in prt	
3900	Shale		LS crm-lt gry, fn xtl, fos, chky, p-f int xtl por, w/grn-gry Sh	
50	Shale		LS crm-lt gry, vfn xtl, sli chty, arg in prt	
3900	Shale		LS crm-lt gry, fn xtl, dnse	
50	Shale		Sh blk, carb	Heebner 4023 (-863)
3900	Shale		Sh gry-dk gry, calc	
50	Shale		LS crm-lt gry, fn xtl, fos, chky, f int xtl-pp por, NS	
3900	Shale		LS crm, fn xtl, fos, v chky, p-f int xtl-pp por, NS	
50	Shale		Sh grn-gry	Lansing 4069 (-909)
3900	Shale		LS crm-tan-gry, fn xtl, fos, chky, f int xtl-pp por, NS	
50	Shale		LS crm, fn xtl, sli ool, sli chky, p int xtl & int ool por, NS	
3900	Shale		LS crm-lt gry, vfn xtl, chky, sli chty, dnse	
50	Shale		Sh grn-gry	
3900	Shale		LS crm-lt gry, fn xtl, fos, chky, f int xtl-pp por, NS	
50	Shale		LS crm-tan, fn xtl, fos, chky, p int xtl-pp por, NS	
3900	Shale		LS crm-lt gry, vfn xtl, sli fos, chky, dnse	
50	Shale		Sh red-grn-gry	
3900	Shale		LS lt gry, vfn xtl, dnse	
50	Shale		LS crm, fn xtl, fos, chky, f int xtl-pp por w/few vugs, NS	
3900	Shale		LS/Dol crm, fn-med xtl, p-f int xtl por, NS	
50	Shale		LS crm-lt gry, vfn xtl, chty, dnse	
3900	Shale		Sh gry-dk gry	
50	Shale		LS crm-lt gry, fn xtl, fos, sli chky, f int xtl-pp por w/scat vugs, NS	
3900	Shale		LS crm-lt gry, fn xtl, fos-ool, chky, p-f int xtl & ooc por, NS	
50	Shale		LS crm-lt gry, vfn xtl, sli chty, dnse	
3900	Shale		LS crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS	
50	Shale		LS crm-lt gry, vfn xtl, chty, dnse	Muncie Creek 4258 (-1098)
3900	Shale		Sh blk, carb	
50	Shale		LS crm-lt gry, vfn xtl, chty, dnse	
3900	Shale		Sh dk gry	
50	Shale		LS/Dol crm-lt gry, fn-med xtl, f int xtl por, NS	
3900	Shale		LS crm-lt gry, mic xtl, dnse	
50	Shale		LS crm-lt gry, fn xtl, fos, chky, sli chty, dnse	
3900	Shale		Sh blk, carb	
50	Shale		Sh grn-gry	
3900	Shale		LS crm-lt gry, fn xtl, fos, chky, sli chty, dnse	
50	Shale		LS crm-lt gry, fn-med xtl, fos-ool, sli chky, p-f int frag por w/ few ooc, NS	
3900	Shale		Sh grn-gry-dk gry	
50	Shale		LS crm-lt gry, fn xtl, sli fos, arg in prt, dnse	
3900	Shale		Sh blk, carb	Stark Shale 4351 (-1191)
50	Shale		Sh grn-gry, calc	
3900	Shale		LS crm-lt gry-gry, fn xtl, fos, f int xtl-pp por w/few vugs, NS	
50	Shale		LS crm-gry, fn xtl, sli fos, arg	
3900	Shale		LS crm-lt gry, fn xtl, fos, p-f int xtl-pp por, NS	
50	Shale		Sh blk, carb	Huehpuckney Shale 4398 (-1238)
3900	Shale		LS tan-gry, fn xtl, arg, w/int bed gry Sh	
50	Shale		LS crm-lt gry, fn xtl, fos, p-f int xtl-pp por, NS	
3900	Shale		LS lt gry, mic xtl, dnse	
50	Shale		LS gry, vfn xtl, dnse	
3900	Shale		Sh blk, carb	B/K.C. 4445 (-1285)
50	Shale		LS crm-lt gry, vfn xtl, dnse	
3900	Shale		Sh dk gry	
50	Shale		LS crm-gry, fn xtl, ool, chky, p int ool por, NS	
3900	Shale		Sh dk gry-blk	
50	Shale		Sh var col, silty, sandy	
3900	Shale		Sh gry, calc	
50	Shale		Sh grn-gry	
3900	Shale		Sh grn-brn, vfn xtl, fos-sub ool, p-f pp-vug por, sptd-sli sat dk stn on few pcs, SSFO, no odor, dull fluor	Marmaton 4502 (-1342)
50	Shale		LS crm-lt gry, mic xtl, dnse	
3900	Shale		LS tan-brn, vfn xtl, fos-sub ool, p-f pp-vug por, sptd-sli sat dk stn on few pcs, SSFO, v sli odor, no fluor	DST # 1 (4493'-4538') IF: Built to 14 in., no return FF: No blow, no return Rec: 9 Mud Fps: 16-24#/27-34# SIPs: 1155#/1898# HSPs: 2220#/2139# BHT: 104 deg F
50	Shale		Sh grn-gry, silty	
3900	Shale		LS crm-tan, vfn xtl, chky, dnse	Pipe strap @ 4538 was 4.08' short to board. No correction made.
50	Shale		LS crm-lt gry, mic xtl, dnse	
3900	Shale		Sh blk, carb	
50	Shale		LS tan-gry, vfn xtl, w/int bed Sh	Pawnee 4577 (-1417)
3900	Shale		LS lt gry, vfn xtl, arg in prt	
50	Shale		LS crm-tan, vfn xtl, chty, dnse	
3900	Shale		Sh blk, carb	Myric Station 4607 (-1447)
50	Shale		LS crm-tan-brn, fn xtl, ool, sli chky, p-f int ool por, NS	
3900	Shale		LS crm-tan, mic xtl, dnse	
50	Shale		Sh blk, carb	Fort Scott 4623 (-1463)
3900	Shale		LS tan-brn, vfn xtl, ool, w/ool chl, dnse	
50	Shale		LS crm-tan, fn xtl, fos, p int xtl-pp por w/few vugs, sptd stn on few pcs, SSFO, sli odor, dull fluor	
3900	Shale		LS crm-tan, mic xtl, dnse	
50	Shale		LS crm-gry, vfn xtl, chty, dnse	Cherokee Shale 4652 (-1492)
3900	Shale		Sh blk, carb	
50	Shale		LS crm-tan-gry motld, fn xtl, fos, chky, f int frag por, NS	DST # 2 (4618'-4645') IF: Built to 16 in., no return FF: No blow, no return Rec: 9 Mud Fps: 15-16#/15-16# SIPs: 384#/40# HSPs: 2258#/2238# BHT: 105 deg F
3900	Shale		LS crm-lt gry, vfn xtl, dnse	
50	Shale		LS tan-gry, vfn xtl, w/int bed blk carb Sh	
3900	Shale		LS crm-tan, fn xtl, chky, p int xtl-pp por, sptd stn on few pcs, VSSFO, sli odor, f fluor	Johnson Zone 4686 (-1536)
50	Shale		LS crm-lt gry, vfn xtl, dnse	
3900	Shale		Sh grn-gry	
50	Shale		LS crm-tan-gry, mic xtl, dnse	
3900	Shale		LS crm-tan, vfn xtl, sli fos, sli chky, p-f pp-vug por, sptd stn, SSFO, sli odor, no fluor	DST # 3 (4685'-4770') IF: Built to 12 in., no return FF: Surface blow, no return Rec: 60' Mud w/sum of oil Fps: 18-30#/30-46# SIPs: 1125#/1898# HSPs: 2299#/2279# BHT: 108 deg F
50	Shale		Sh blk, carb	
3900	Shale		LS crm-tan-lt gry, mic xtl, chty	
50	Shale		LS crm-tan, vfn xtl, sli chty	
3900	Shale		LS crm-lt gry, w/clear quartz, fn xtl, p-f int xtl-pp por, sptd-sli sat stn, SSFO, sli odor, no fluor	
50	Shale		LS crm-tan, vfn xtl, dnse	
3900	Shale		Sh blk, carb	
50	Shale		SS It gry, fn grn, sub md, well sort, friable, NS	
3900	Shale		SS lt gry, fn-med grn, sub md, poor sort, sli friable, NS, w/ var col Sh	
50	Shale		Sh var col, silty-sandy, calc in prt	
3900	Shale		SS crm-wh, fn-coarse grn, sub md, sli fia, sme loose grns, NS	Mississippian 4864 (-1704) Total Depth 4871' (-1711)
50	Shale		LS tan, mic xtl, dnse	





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142501  
Invoice Date: Apr 8, 2014  
Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Shak	62032	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 8, 2014	5/8/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Schowalter #1-32	17.90	3,222.00
180.00	CEMENT MATERIALS	Class A Common	23.40	70.20
3.00	CEMENT MATERIALS	Gel	64.00	384.00
6.00	CEMENT MATERIALS	Chloride	2.48	482.71
194.64	CEMENT SERVICE	Cubic Feet Charge	2.60	1,099.80
423.00	CEMENT SERVICE	Ton Mileage Charge	1,512.25	1,512.25
1.00	CEMENT SERVICE	Surface ✓	7.70	385.00
50.00	CEMENT SERVICE	Pump Truck Mileage	275.00	275.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	4.40	220.00
50.00	CEMENT SERVICE	Light Vehicle Mileage		
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

INT

RECEIVED

APR 21 2014

10502-S

or

Subtotal	7,650.96
Sales Tax	299.61
Total Invoice Amount	7,950.57
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,950.57</b>

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

\$ 1,912.74

ONLY IF PAID ON OR BEFORE  
May 3, 2014

DW



# ALLIED OIL & GAS SERVICES, LLC 062032

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

DATE <u>4-8-14</u>	SEC. <u>82</u>	TWR. <u>165</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION	JOB START <u>4-9-14</u>	JOB FINISH <u>4-9-14</u>
LEASE <u>Schowalter</u>	WELL# <u>1-32</u>	LOCATION <u>Peace 3.5 1W 1N 5W 5110</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR HD #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 TD. 270

CASING SIZE 8 5/8 DEPTH 270

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 16 bb 1

OWNER Same

CEMENT AMOUNT ORDERED 180 SKS Com 3% CC

290 gal

COMMON	<u>180 SKS @ 17.90</u>	<u>3222.00</u>
POZMIX		
GEL	<u>53 SKS @ 23.40</u>	<u>1239.00</u>
CHLORIDE	<u>6 SKS @ 64.00</u>	<u>384.00</u>
ASC		
HANDLING	<u>104.64 cost @ 2.98</u>	<u>482.71</u>
MILEAGE	<u>8.46 ton x 50 @ 2.50</u>	<u>1099.80</u>
<u>(134.68/25%)</u>		<u>TOTAL 5258.71</u>

EQUIPMENT

PUMP TRUCK CEMENTER Kelly Gabe

# 422 HELPER Wayne McElhugh

BULK TRUCK DRIVER Juan M (TWS)

# 3866421

BULK TRUCK DRIVER

REMARKS:

riggered up

mixed cement

displaced with water

shot in.

Cement did circulate

Thank You  
Kelly crew

SERVICE

DEPTH OF JOB	<u>270'</u>
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	
MILEAGE <u>MILV 50 @ 7.20</u>	<u>385.80</u>
MANIFOLD <u>Storage MILV 50 @ 4.40</u>	<u>275.00</u>
	<u>220.00</u>
<u>(598.06/25%)</u>	
<u>TOTAL 2392.25</u>	

CHARGE TO: Shakespeare

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

<u>(0%)</u>	
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.

PRINTED NAME Jeff Brock

SIGNATURE J/B Brock

SALES TAX (If Any)

TOTAL CHARGES 7,650.96

DISCOUNT 1,912.74 (25%) IF PAID IN 30 DAYS

5,738.22 Net.



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142810  
Invoice Date: Apr 20, 2014  
Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Shak	63394	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Apr 20, 2014	5/20/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Schowalter #1-32		
168.00	CEMENT MATERIALS	Class A Common	17.90	3,007.20
112.00	CEMENT MATERIALS	Pozmix	9.35	1,047.20
10.00	CEMENT MATERIALS	Gel	23.40	234.00
300.74	CEMENT SERVICE	Cubic Feet Charge	2.48	745.84
629.09	CEMENT SERVICE	Ton Mileage Charge	2.60	1,635.63
1.00	CEMENT SERVICE	Plug to Abandon ✓	2,483.59	2,483.59
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
2.00	CEMENT SERVICE	Waiting on Location	440.00	880.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

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RECEIVED  
MAY 05 2014

Subtotal	10,638.46
Sales Tax	867.03
Total Invoice Amount	11,505.49
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,505.49</b>

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

\$ 2,659.61

ONLY IF PAID ON OR BEFORE  
May 15, 2014

DW  
10502-17  
KW

# ALLIED OIL & GAS SERVICES, LLC 063394

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dealey Ky

DATE <u>4/20/17</u>	SEC <u>32</u>	TWP <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 AM</u>	JOB FINISH <u>8:00 PM</u>
LEASE <u>Scho midco</u>		WELL# <u>1-32</u>	LOCATION <u>Penue STO 240 1W</u>		COUNTY <u>Scott</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one)			<u>NOVA 5 780</u>				

CONTRACTOR HD

TYPE OF JOB PTO

HOLE SIZE 2 7/8 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.

PERFS.

DISPLACEMENT

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 280 62/40  
4070 gal 16/160

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan

# 483 281 HELPER Blaine Ryan

BULK TRUCK # 323 DRIVER Thant (TMS)

BULK TRUCK # DRIVER

COMMON	<u>168</u>	@ <u>17.80</u>	<u>3007.20</u>
POZMIX	<u>112</u>	@ <u>9.55</u>	<u>1047.20</u>
GEL	<u>10</u>	@ <u>23.40</u>	<u>234.00</u>
CHLORIDE		@	
ASC		@	
Materials Total			<u>4128.40</u>
<u>(1.012.10/25%)</u>			
Services			
HANDLING	<u>24</u>	@ <u>2.10</u>	<u>245.84</u>
MILEAGE	<u>200</u>	@ <u>12.57</u>	<u>2514.00</u>

REMARKS:

50 5/2 @ 2490'

80 5/2 @ 1550'

50 5/2 @ 280'

20 5/2 @ 300'

20 5/2 @ 60'

30 5/2 @ RT

*Proof by playability TMS*

DEPTH OF JOB	<u>2490'</u>
PUMP TRUCK CHARGE	<u>2483.22</u>
EXTRA FOOTAGE	@
MILEAGE	<u>50</u> @ <u>7.70</u> <u>385.00</u>
MANIFOLD	@
<u>6 1/2 vehicle 50</u>	@ <u>4.40</u> <u>220.00</u>
<u>2 hrs 45 min on loc. ov</u>	@ <u>4.40</u> <u>880.00</u>
<u>(1,587.37/25%)</u>	TOTAL <u>6,379.20</u>

CHARGE TO: Edlespeare

STREET \_\_\_\_\_

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

PLUG & FLOAT EQUIPMENT

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	
<u>0.00</u>	TOTAL	<u>0.00</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 Jeff Brock

SIGNATURE Jeff Brock

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 10,637.90

DISCOUNT 2,659.47 (25%) IF PAID IN 30 DAYS

7,978.43 Net.