

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Nightengale 1-15
Doc ID	1280766

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Nightengale 1-15
Doc ID	1280766

Tops

Name	Top	Datum
Base Anhydrite	2416	+672
Heebner	3982	-894
Lansing	4028	-940
Muncie Creek	4228	-1140
Stark Shale	4326	-1238
Hushpuckney	4375	-1287
Marmaton	4475	-1387
Pawnee	4561	-1473
L. Cherokee Shale	4640	-1552
Johnson	4689	-1601
Mississippian	4884	-1796





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co  
 202 West Main St  
 Salem, IL  
 62881-1519  
 ATTN: Tim Priest

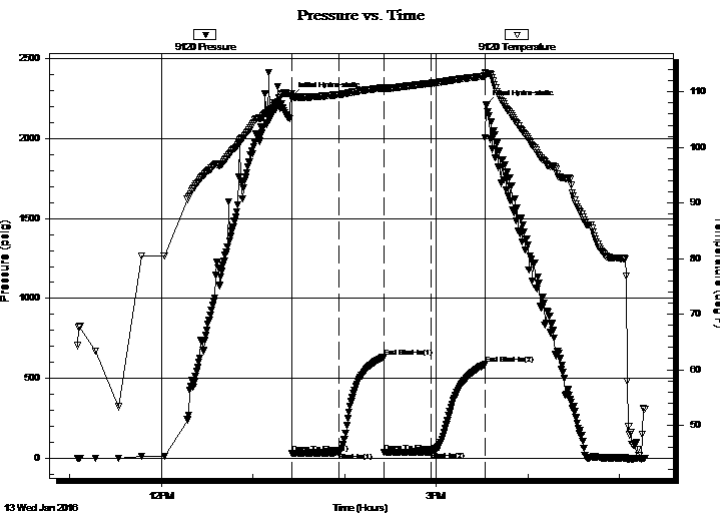
**15-17-34 Scott, Ks**  
**Nightengale #1-15**  
 Job Ticket: 48274 **DST#: 1**  
 Test Start: 2016.01.13 @ 11:05:20

## GENERAL INFORMATION:

Formation: **Marmaton A**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 13:25:35  
 Time Test Ended: 17:25:35  
 Interval: **4448.00 ft (KB) To 4500.00 ft (KB) (TVD)**  
 Total Depth: 4500.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 3092.00 ft (KB)  
 3083.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 9120 Outside**  
 Press@RunDepth: 40.68 psig @ 4449.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.01.13 End Date: 2016.01.13 Last Calib.: 2016.01.13  
 Start Time: 11:05:20 End Time: 17:16:35 Time On Btm: 2016.01.13 @ 13:25:20  
 Time Off Btm: 2016.01.13 @ 15:32:50

TEST COMMENT: 1/4 "in @ open died back to weak surface blow  
 No return  
 No blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.04	109.72	Initial Hydro-static
1	28.83	108.88	Open To Flow (1)
31	36.28	109.52	Shut-In(1)
61	635.02	110.77	End Shut-In(1)
61	36.70	110.47	Open To Flow (2)
92	40.68	111.57	Shut-In(2)
127	587.12	112.84	End Shut-In(2)
128	2211.39	113.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil spots 100%m	0.02
0.00	show of free oil on top 2" in	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co

**15-17-34 Scott, Ks**

202 West Main St  
Salem, Il  
62881-1519  
ATTN: Tim Priest

**Nightengale #1-15**

Job Ticket: 48274

**DST#: 1**

Test Start: 2016.01.13 @ 11:05:20

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

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

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w /oil spots 100%m	0.025
0.00	show of free oil on top 2" in	0.000

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:

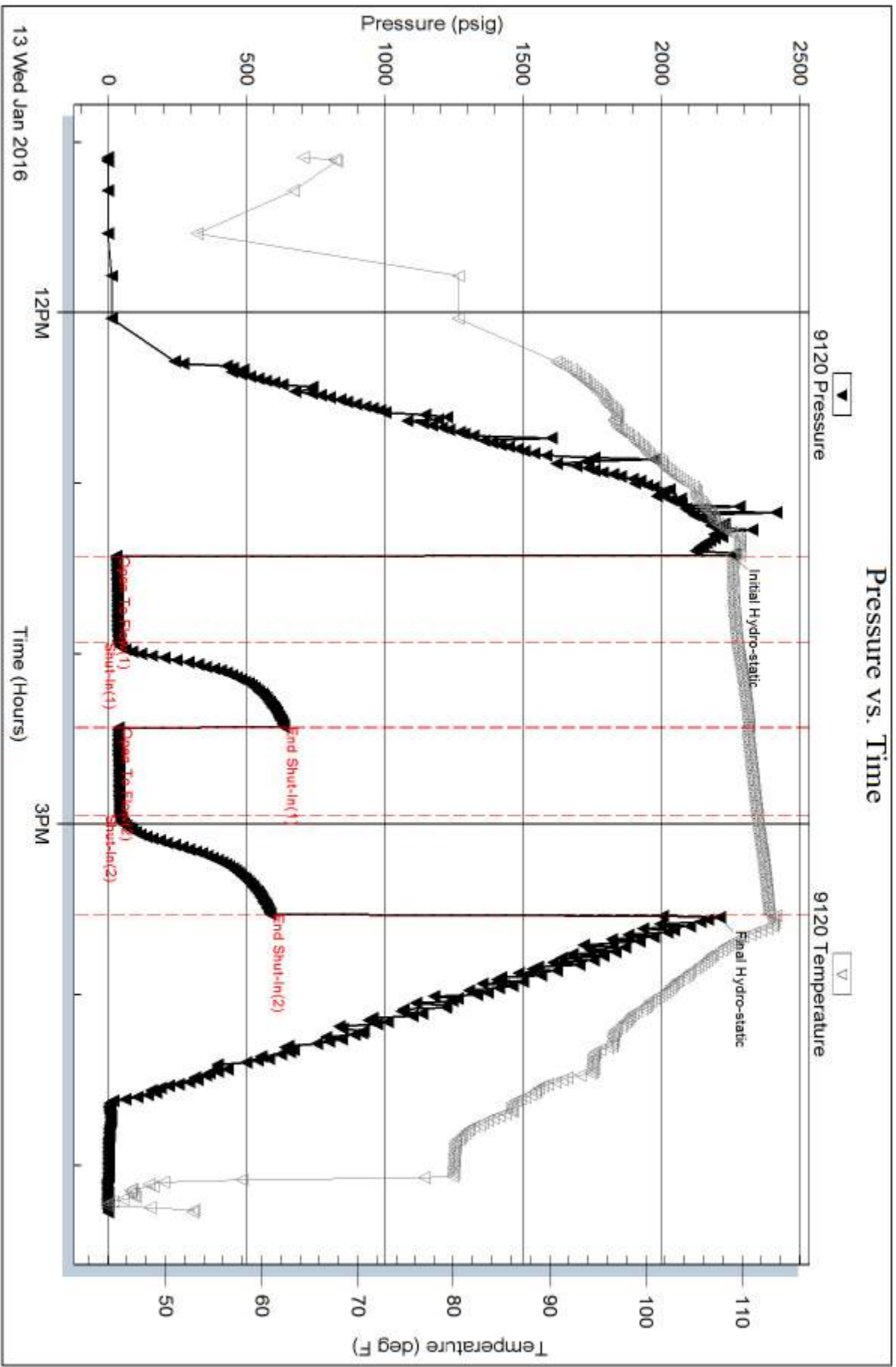


Serial #: 9120

Outside Shakespeare Oil Co

Nightengale #1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 48274

Printed: 2016.01.13 @ 19:16:19

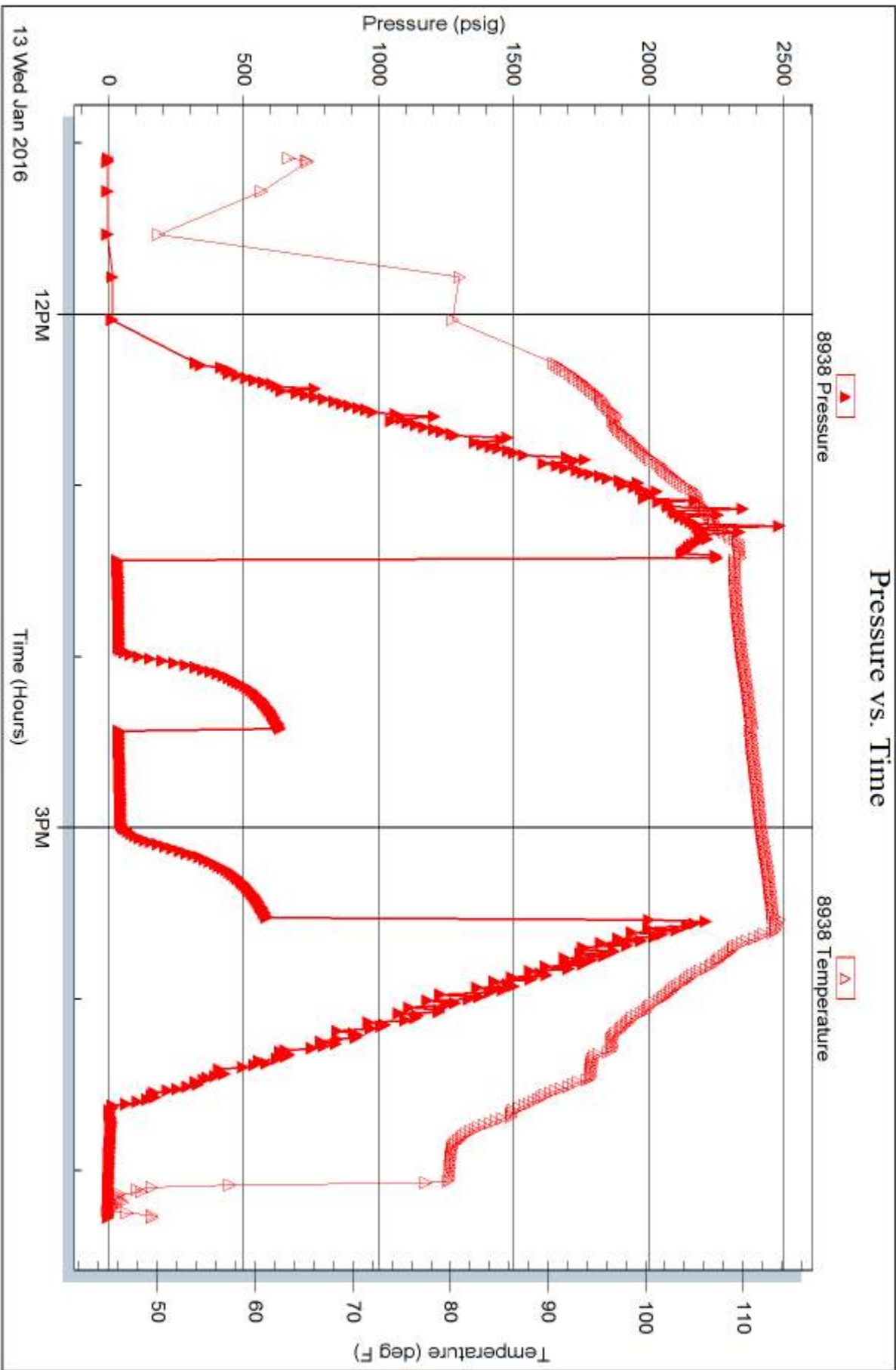
Serial #: 8938

Inside

Shakespeare Oil Co

Nightengale #1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 48274

Printed: 2016.01.13 @ 19:16:19



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co**

202 West Main St  
Salem , IL 62881-1519

ATTN: Tim Priest

### **Nightengale #1-15**

### **15-17s-34w Scott, KS**

Start Date: 2016.01.13 @ 11:05:20

End Date: 2016.01.13 @ 17:25:35

Job Ticket #: 48274                      DST #: 1

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

Printed: 2016.01.18 @ 09:32:46

Shakespeare Oil Co  
15-17s-34w Scott, KS  
Nightengale #1-15  
DST # 1  
Marmaton A  
2016.01.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co  
202 West Main St  
Salem, IL 62881-1519  
ATTN: Tim Priest

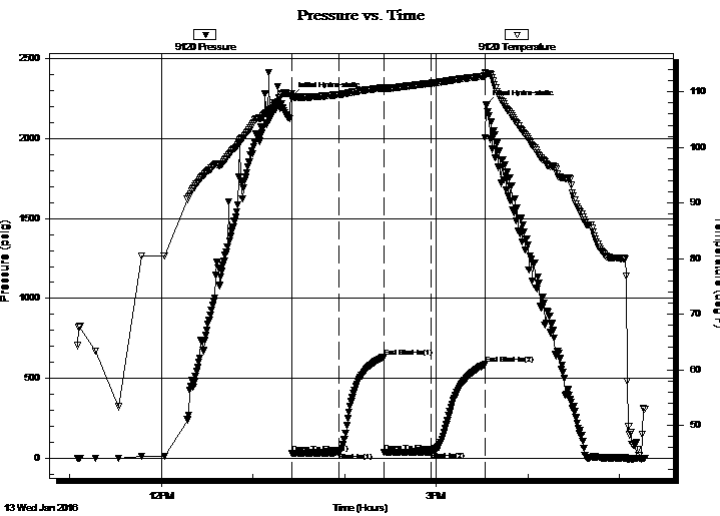
**15-17s-34w Scott, KS**  
**Nightengale #1-15**  
Job Ticket: 48274 **DST#: 1**  
Test Start: 2016.01.13 @ 11:05:20

## GENERAL INFORMATION:

Formation: **Marmaton A**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:25:35  
Time Test Ended: 17:25:35  
Interval: **4448.00 ft (KB) To 4500.00 ft (KB) (TVD)**  
Total Depth: 4500.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Shane McBride  
Unit No: 84  
Reference Elevations: 3092.00 ft (KB)  
3083.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 9120 Outside**  
Press@RunDepth: 40.68 psig @ 4449.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.01.13 End Date: 2016.01.13 Last Calib.: 2016.01.13  
Start Time: 11:05:20 End Time: 17:16:35 Time On Btm: 2016.01.13 @ 13:25:20  
Time Off Btm: 2016.01.13 @ 15:32:50

TEST COMMENT: 1/4 " @ open died back to weak surface blow  
No return  
No blow  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.04	109.72	Initial Hydro-static
1	28.83	108.88	Open To Flow (1)
31	36.28	109.52	Shut-In(1)
61	635.02	110.77	End Shut-In(1)
61	36.70	110.47	Open To Flow (2)
92	40.68	111.57	Shut-In(2)
127	587.12	112.84	End Shut-In(2)
128	2211.39	113.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil spots 100%m	0.02
0.00	show of free oil on top 2"	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co  
202 West Main St  
Salem, IL 62881-1519  
ATTN: Tim Priest

**15-17s-34w Scott, KS**  
**Nightengale #1-15**  
Job Ticket: 48274      **DST#: 1**  
Test Start: 2016.01.13 @ 11:05:20

**Tool Information**

Drill Pipe:	Length: 4328.00 ft	Diameter: 3.80 inches	Volume: 60.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 61.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4448.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4421.00	
Shut In Tool	5.00			4426.00	
Hydraulic tool	5.00			4431.00	
Jars	5.00			4436.00	
Safety Joint	3.00			4439.00	
Packer	5.00			4444.00	28.00      Bottom Of Top Packer
Packer	4.00			4448.00	
Stubb	1.00			4449.00	
Recorder	0.00	9120	Outside	4449.00	
Recorder	0.00	8938	Inside	4449.00	
Perforations	13.00			4462.00	
Change Over Sub	1.00			4463.00	
Drill Pipe	31.00			4494.00	
Change Over Sub	1.00			4495.00	
Bullnose	5.00			4500.00	52.00      Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co

**15-17s-34w Scott, KS**

202 West Main St  
Salem, IL 62881-1519

**Nightengale #1-15**

Job Ticket: 48274

**DST#: 1**

ATTN: Tim Priest

Test Start: 2016.01.13 @ 11:05:20

## 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: 56.00 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: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w /oil spots 100%m	0.025
0.00	show of free oil on top 2"	0.000

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

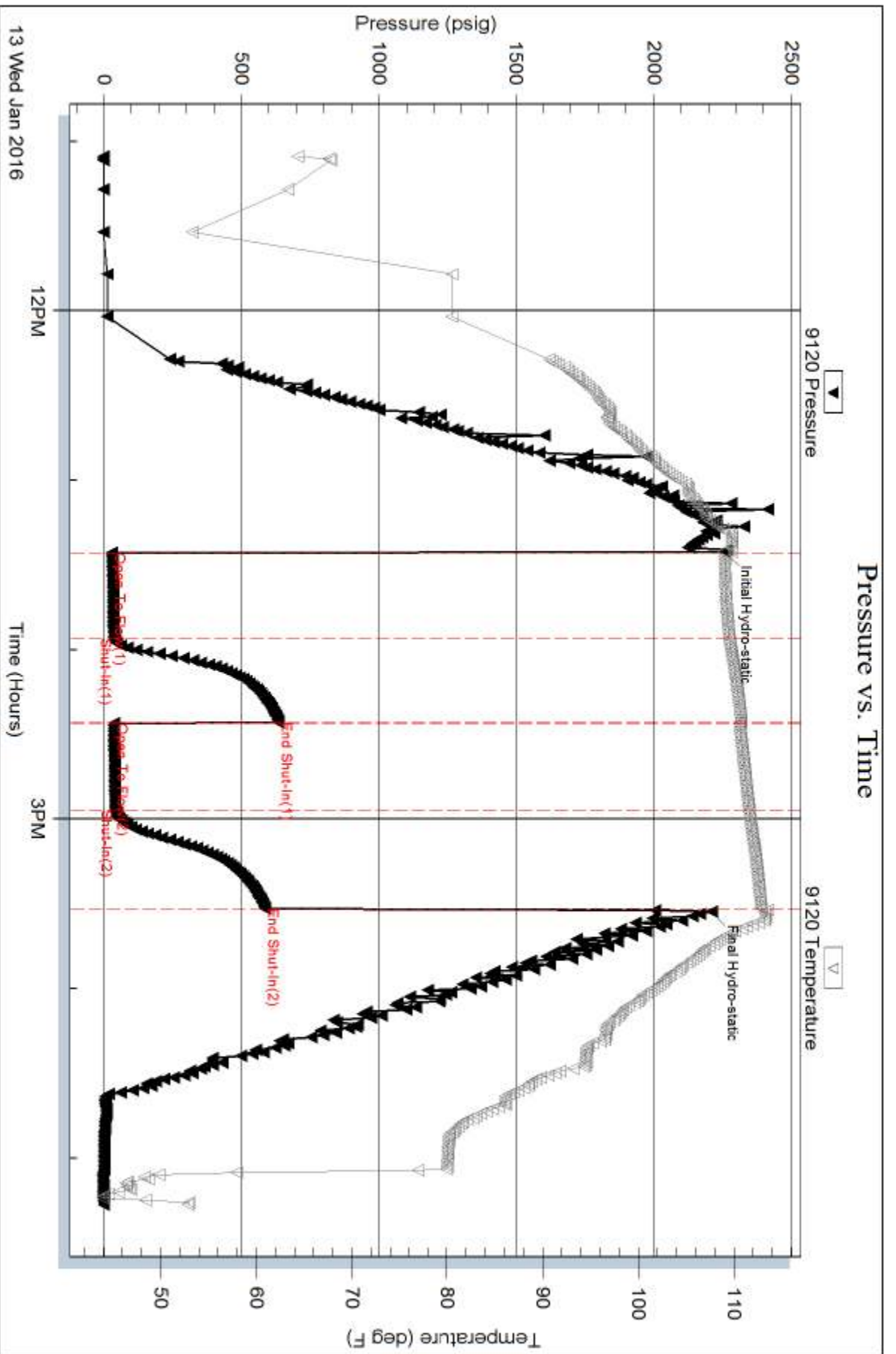
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





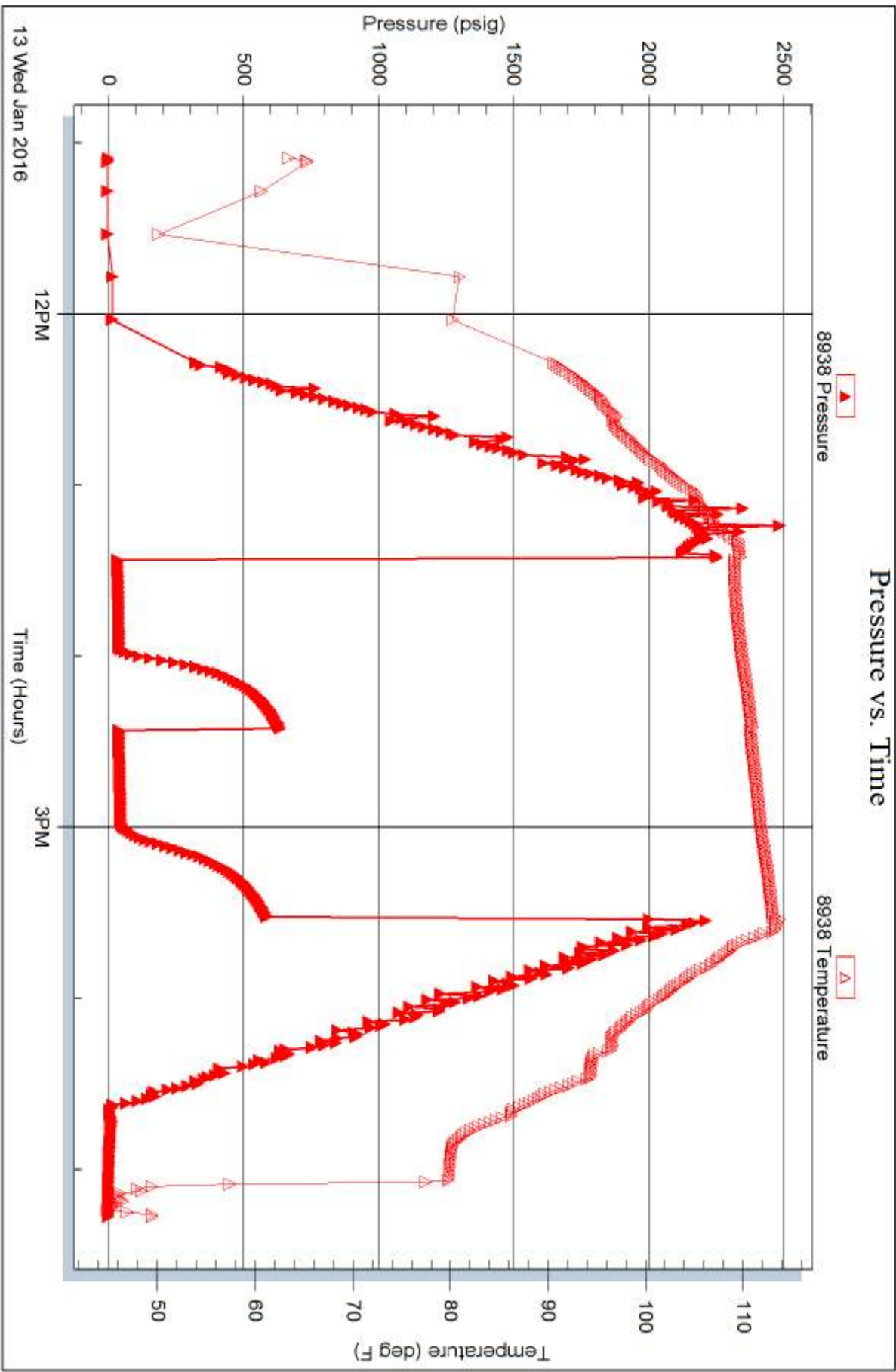
Serial #: 8938

Inside

Shakespeare Oil Co

Nightengale #1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 48274

Printed: 2016.01.18 @ 09:32:49



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48274

Well Name & No. Nightengale # 1-15 Test No. #1 Date 1/13/16  
 Company Shakespeare O.I. Elevation 3092 KB 3083 GL  
 Address 202 West Main St. Salem, IL 62881-1519  
 Co. Rep / Geo. Tom Priest Rig H.D. #3  
 Location: Sec. 15 Twp. 17 Rge. 34 Co. Scott State Ks

Interval Tested 4448 4500 Zone Tested main water A  
 Anchor Length 32 Drill Pipe Run 4328 Mud Wt. 7.3  
 Top Packer Depth 4443 Drill Collars Run 124 Vis 56  
 Bottom Packer Depth 4448 Wt. Pipe Run          WL 8.0  
 Total Depth 4500 Chlorides 6000 ppm System LCM #2

Blow Description 1/4" @ open D/d back to a weak surface blow  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil spots</u>	<u>Spots</u>		<u>100</u>	
	<u>show of free oil on top</u>				
	<u>2" in.</u>				

Rec Total 5' BHT 113° Gravity          API RW          @          ° F Chlorides          ppm

(A) Initial Hydrostatic <u>2261</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>09:58</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:05</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:26</u>
(D) Initial Shut-In <u>635</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>15:26</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby <u>        </u>	T-Out <u>17:25</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>32rt</u>	Comments <u>Released &amp; bonded</u>
(G) Final Shut-In <u>587</u>	<input type="checkbox"/> Sampler <u>        </u>	<u>on 1/15/2016 @ 19:00</u>
(H) Final Hydrostatic <u>2211</u>	<input type="checkbox"/> Straddle <u>        </u>	<input type="checkbox"/> Ruined Shale Packer <u>        </u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>        </u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u>        </u>	<input type="checkbox"/> Extra Copies <u>        </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>        </u>	Sub Total <u>800</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby <u>2d 1.5h</u>	Total <u>2557</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility <u>        </u>	MP/DST Disc't <u>        </u>
	Sub Total <u>1757</u>	

Approved By          Our Representative [Signature]

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.

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

COMPANY **SHAKESPEARE OIL CO.**  
 LEASE **Nightengata 1-15**  
 FIELD **Wildcat**  
 LOCATION **13507 FSL, 6400 FEL**  
 SEC **15 T1WSP 17S R0E 34W**  
 COUNTY **Scott** STATE **Kansas**

CONTRACTOR **HD Rig #3**  
 SPUD **1-5-16** COMP **1-16-16**  
 RTD **4965'** LTD **4963'**  
 MUD UP **3600'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3800'** to RTD  
 DRILLING TIME KEPT FROM **3800'** to RTD  
 SAMPLES EXAMINED FROM **3800'** to RTD  
 GEOLOGICAL SUPERVISION FROM **3900'** to RTD

GEOLOGIST ON WELL **Tim Priest**  
 By: **Weatherford**

FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2398 (+690)	2400 (+688)
Heebner Shale	3982 (+894)	3984 (+896)
Amisburg	4028 (+940)	4027 (+939)
SARC	4326 (+1238)	4330 (+1242)
B/K.C.	4425 (+1337)	4427 (+1339)
Fort Scott	4614 (+1526)	4616 (+1528)
Cherokee Shale	4640 (+1552)	4642 (+1554)
Mississippian	4884 (+1796)	4886 (+1798)

ELEVATIONS  
 KG 3088'  
 DF \_\_\_\_\_  
 GL 3079'

Measurements Are All From **KB**

CONTRACTOR **HD Rig #3**  
 From **KB**

CASING  
 CONDUCTION **N/A**  
 SURFACE **8-5/8" @ 264'**  
 PRODUCTION **None**

DRILLING TIME AND SAMPLE LOG

DRILLING TIME KEPT FROM **3800'** to RTD  
 SAMPLES EXAMINED FROM **3800'** to RTD  
 GEOLOGICAL SUPERVISION FROM **3900'** to RTD

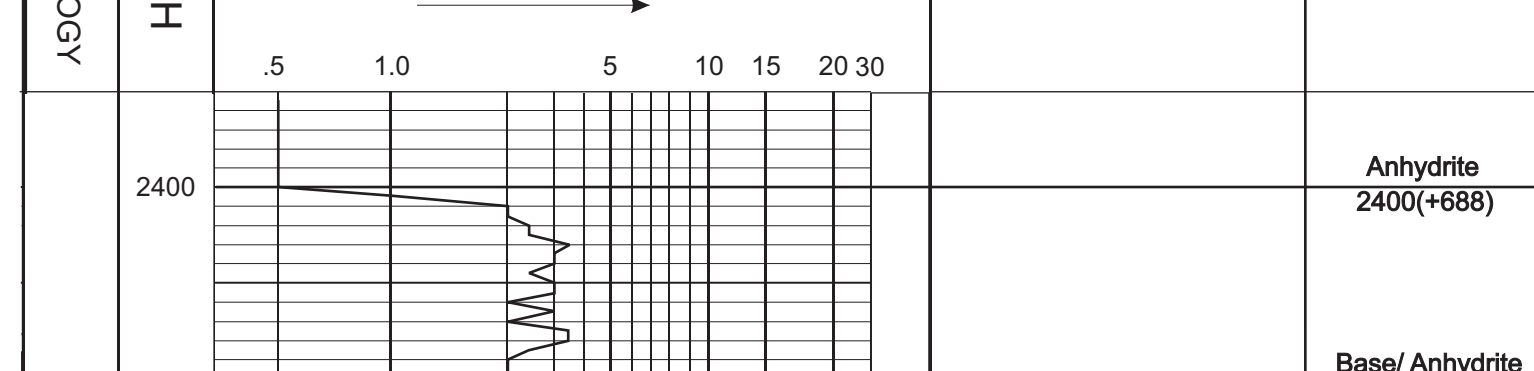
GEOLOGIST ON WELL **Tim Priest**  
 By: **Weatherford**

REMARKS Due to the lack of shows and negative drillstem test, it was decided to plug and abandon the well.

Respectfully Submitted,

**API #15-171-21165-00-00**

**Tim Priest**  
 Petroleum Geologist



DEPTH	SAMPLE DESCRIPTION	REMARKS
2400	Anhydrite	2400(+688)
2420	Base/ Anhydrite	2420(+688)
3800	Ls crm-tan, fn xtl, fos, chky, f-gd int xtl & int frag por, NS	
50	Sh gry	
50	Ls crm-tan, fn xtl, sil fos, chky, arg in prt	
50	Sh blk, carb	
50	SS lt gry, vfn gm, friable, w/gry Sh	
50	Ls crm-tan, fn xtl, sil fos, chky, arg in prt	
50	Ls crm-tan-gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
50	Ls crm-t gry, vfn xtl, dnse	
50	Sh gry-blk	
50	Ls crm-tan, fn xtl, fos, chky, f-gd int xtl-pp por, NS	
50	Ls crm-t gry, vfn xtl, sli chty, dnse	
50	Ls crm-t gry, fn xtl, fos, chky, f int xtl por, NS	
50	Ls crm-t gry, fn xtl, dnse	
50	Ls crm-t gry, fn xtl, fos, p-f int xtl-pp por, NS	
4000	Sh blk, carb	Heebner 3984 (-896)
4000	Sh gry-dk gry, calc	Toronto 4000 (-912)
50	Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
50	Ls crm, fn xtl, fos, v chky, p-f int xtl-pp por, NS	
50	Sh grn-gry	Lansing 4027 (-939)
50	Ls crm-t gry, fos, chky, p-f int xtl por, NS	
50	Ls crm, fn xtl, ool, v chky, p-f int xtl & int ool por, NS	
50	Sh red-gry	
50	Ls crm-t gry, fn xtl, fos, p-f int xtl-pp por, NS	
50	Sh gry	
50	Ls crm-t gry, vfn xtl, sli chty, dnse	
50	Ls crm-t gry, fn xtl, chky, p int xtl por, NS	
50	Ls crm-t gry, fn xtl, chky, p int xtl por, NS	
50	Sh grn-gry	
50	Ls crm-t gry, vfn xtl, fos, chky, dnse	
50	Sh gry-dk gry	
50	Ls crm-t gry, fn xtl, fos, sli chky, p-f int xtl-pp por w/scat vugs, NS	
50	Ls crm-tan, fn xtl, ool, chky, f int xtl & ooc por, NS	
50	Ls crm-t gry, fn xtl, sli chty, chky, dnse	
50	Ls crm-t gry, fn xtl, fos, chky, p int xtl-pp por, NS	
50	Ls crm-t gry, vfn xtl, chty, dnse	
50	Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
50	Ls it gry-gry, vfn xtl, chty, dnse	Muncie Creek 4230 (-1142)
50	Sh blk, carb	
50	Ls it gry, vfn xtl, dnse	
50	Ls crm-tan, fn xtl, ool, p-f int ool-ooc por, NS	
50	Ls crm-t gry, vfn xtl, sli chty, dnse	
50	Ls crm-t gry, fn xtl, fos, chky, p int xtl-pp por, NS	
50	Ls tan-gry, vfn xtl, sli chty, dnse	
50	Ls crm-t gry, fn xtl, fos, chky, arg in prt, p int xtl-pp por, NS	
50	Ls crm-t gry, vfn xtl, sli chty, dnse	
50	Ls crm, fn xtl, fos, chky, p-int xtl-pp por, NS	
50	Ls crm-t gry, vfn xtl, sli chty, dnse	
50	Ls crm-t gry, fn xtl, ool, chky, f-gd int xtl & ooc por, NS	
50	Ls gry, vfn xtl, sli chty, dnse	Stark Shale 4330 (-1242)
50	Sh blk, carb	
50	Ls crm-t gry, fn xtl, arg in prt, most dnse	
50	Ls tan-gry, fn xtl, ool, chky, f int xtl & int ool por, scat ooc por, NS	
50	Ls crm-gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
50	Sh blk, carb	Hushpuckney Shale 4377 (-1289)
50	Ls tan-gry, vfn xtl, dnse	
50	Sh gry	
50	Ls crm-t gry, fn xtl, chky, arg in prt	
50	Ls it gry-gry, vfn xtl, dnse	
50	Ls crm-gry, fn xtl, fos, chky, p int xtl-pp por w/scat vugs, NS	
50	Sh blk, carb	B/K.C. 4427 (-1339)
50	Sh dk gry	
50	Ls crm-t gry, fn xtl, ool, chky, p-f int xtl-int ool por, NS	
50	Sh dk gry-blk	
50	Sh var col, silty, sandy	
50	Ls crm-t gry, vfn xtl, sli chky, dnse	Marmaton 4477 (-1389)
50	Ls crm-tan, fn xtl, sil fos, p int xtl-pp por, sptd-sli sat stn, SSFO, sli odor, dull fluor	DST # 1 (4448-4500) 30' 300-305' 30'
50	Ls crm-t gry, fn-vfn xtl, fos-ool, p int ool por, p-f pp-vug por, sptd-sli sat stn, SSFO, v sli odor, dull fluor	FF: No blow, no return FF: Surface blow, no return FF: 5' GSM w/fo on top Fps: 28-36W/56-40H SIPS: 635a/507# NISPs: 22616/521# BHT: 113 deg F
50	Ls crm-t gry, mic xtl, dnse	
50	Sh dk gry-maroon	
50	Ls crm-t gry, mic xtl, dnse	
50	Ls crm-t gry, fn-vfn xtl, fos-ool, p int ool & pp por, sptd-sli sat stn on few pcs, VSSFO, v sli odor, dull fluor	Pawnee 4564 (-1476)
50	Sh gry-dk gry	
50	Ls crm-t gry, vfn xtl, dnse	
50	Ls crm-t gry, vfn xtl, arg in prt, no vis por	
50	Ls crm-tan, vfn xtl, sli chty, dnse	
50	Sh blk, carb	Myric Station 4601 (-1513)
50	Ls it gry-gry, vfn xtl, sli ool, dnse	
50	Sh blk, carb	Fort Scott 4616 (-1528)
50	Ls tan-gry mtd, fn xtl, ool, dnse	
50	Sh grn-gry-dk gry	
50	Ls crm-gry, fn xtl, fos, sli chty, mostly dnse	
50	Sh blk, carb	Cherokee Shale 4642 (-1554)
50	Ls crm-tan-gry mtd, fn xtl, fos, chky, p-f int frag por, NS	
50	Sh grn-gry	
50	Ls crm-t gry, vfn xtl, dnse	
50	Ls tan-gry, vfn xtl, w/int bed blk carb Sh	
50	Sh gry-dk gry	
50	Ls crm-t gry, vfn xtl, dnse	Johnson Zone 4690 (-1602)
50	Ls crm-t gry, vfn xtl, dnse	
50	Ls crm-gry, fn xtl, sli fos, sli chty, dnse	
50	Ls crm-tan, fn xtl, qtz, p-f int xtl por, NS	
50	Sh blk	
50	Ls crm-gry, vfn xtl, sil fos, sli chty, dnse	
50	Ls crm-tan-gry, fn xtl, sli fos, sli chky, no vis por	
50	Ls crm-tan-gry, fn xtl, sli fos, sli chky, no vis por ? Sh var col	
50	Ls tan-gry, mic xtl, dnse	
50	SS clear-grn, fn-coarse gm, friable, NS, w/gm Sh	
50	Sh var col	
50	Sh gry-dk gry	
50	Sh var col, w/lt gry fn gm SS	
50	SS clear-lt gry, fn gm, fria, NS	
50	Sh var col, silty	
50	Sh gry-dk gry, silty	
50	Ls crm-tan, fn xtl, sli chky, sandy, dnse	
50	SS clear, med-coarse-loose large grns, sub ang, NS	
50	Ls crm-t gry, sandy, sli chky, dnse	Mississippian 4886 (-1798)
50	Ls crm-tan, vfn xtl, sli sandy, dnse	
50	Ls crm-t gry, vfn xtl, sli sandy, sli chky, dnse	
50	Ls tan, mic xtl, dnse	
50	Ls crm-t gry, vfn xtl, dnse	
50	Ls crm-t gry, vfn xtl, chky, dnse	
4965'	Total Depth	4965' (-1877)



P.O. Box 205803  
 Dallas, TX 75320-5803

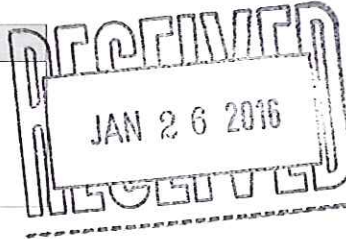
Voice: (832) 482-3742  
 Fax: (832) 482-3738

# INVOICE

Invoice Number: 151591  
 Invoice Date: Jan 16, 2016  
 Page: 1

Federal Tax I.D.#: 20-8651475

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



Customer ID	Field Ticket #	Payment Terms	
Shak	67719	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jan 16, 2016	2/15/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nightengale #1-15		
270.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	5,108.40
68.00	CEMENT MATERIALS	Flo Seal	2.97	201.96
289.98	CEMENT SERVICE	Cubic Feet Charge	2.48	719.15
1,055.00	CEMENT SERVICE	Ton Mileage Charge	2.75	2,901.25
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
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,655.18	-2,655.18
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	3,354.50	-3,354.50
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Cory Brown		

INT

ALL PRICES ARE NET, PAYABLE  
 30 DAYS FOLLOWING DATE OF  
 INVOICE. ONLY IF PAID ON OR  
 BEFORE

**Feb 15, 2016**

1 1/2% CHARGED  
 THEREAFTER.

Subtotal	6,009.67
Sales Tax	510.82
Total Invoice Amount	6,520.49
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,520.49</b>

DW





P.O. Box 205803  
Dallas, TX 75320-5803

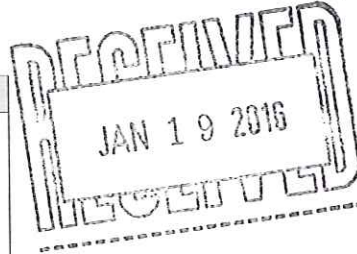
Voice: (832) 482-3742  
Fax: (832) 482-3738

# INVOICE

Invoice Number: 151537  
Invoice Date: Jan 5, 2016  
Page: 1

Federal Tax I.D.#: 20-8651475

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



Customer ID	Field Ticket #	Payment Terms	
Shak	67509	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 5, 2016	2/4/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nightengale #1-15		
185.00	CEMENT MATERIALS	Class A Common	17.90	3,311.50
348.00	CEMENT MATERIALS	Gel	0.50	174.00
522.00	CEMENT MATERIALS	Chloride	1.10	574.20
200.06	CEMENT SERVICE	Cubic Feet Charge	2.48	496.15
456.51	CEMENT SERVICE	Ton Mileage Charge	2.75	1,255.40
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SERVICE	Swedge Rental	275.00	275.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,029.85	-2,029.85
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	2,071.91	-2,071.91
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	EQUIPMENT OPERATOR	Monty Phillips		

INT

10502-5  
KW

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. ONLY IF PAID ON OR  
BEFORE

**Feb 4, 2016**

1 1/2% CHARGED  
THEREAFTER.

Subtotal	4,101.74
Sales Tax	172.54
Total Invoice Amount	4,274.28
Payment/Credit Applied	
<b>TOTAL</b>	<b>4,274.28</b>

DW

