

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 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. 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) (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	BRADFORD 1-25
Doc ID	1429011

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	BRADFORD 1-25
Doc ID	1429011

Tops

Name	Top	Datum
Anhydrite	1586	+845
Heebner	3970	-1539
Muncie Creek	4208	-1777
Stark Shale	4325	-1894
Upper Pawnee	4534	-2103
Fort Scott	4596	-2165
Cherokee Shale	4621	-2190
Base Inola Lst	4678	-2247
Basal Penn Sand	4698	-2267
Mississippian	4730	-2299



**ELEVATIONS**  
 KB 2431'  
 GL 2423'  
**COMPANY & WELL** Shakespeare # 1-25 Bradford  
**LOCATION** 1200' FNL, 2305' FEL, NE/4  
 SEC 25 TWSP 23s RGE 24W  
 COUNTY Hodgeman STATE Kansas

# Tim J. Lauer

## Petroleum Geologist

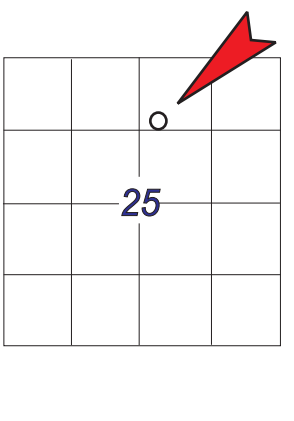
Office 316.832.0530  
Cell 316.253.1275

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

<b>COMPANY</b> Shakespeare Oil Co., Inc. <b>LEASE</b> # 1-25 Bradford <b>FIELD</b> <b>LOCATION</b> 1200' FNL, 2305' FEL, NE/4 <b>SEC</b> 25 <b>TWSP</b> 23s <b>RGE</b> 24w <b>COUNTY</b> Hodgeman <b>STATE</b> Kansas <b>CONTRACTOR</b> Duke Drilling Co - Rig #2 <b>SPUD</b> 11-13-2018 <b>COMP</b> <b>RTD</b> LTD <b>MUD UP</b> 3405' <b>TYPE MUD</b> Chemical	<b>ELEVATIONS</b> KB 2431' DF GL 2423' Measurements Are All From <u>Kelly Bushing</u> <b>CASING</b> CONDUCTOR SURFACE 8-5/8" @ 263' PRODUCTION
<b>SAMPLES SAVED FROM</b> 3800' <b>TO</b> RTD <b>DRILLING TIME KEPT FROM</b> 3850' <b>TO</b> RTD <b>SAMPLES EXAMINED FROM</b> 3800' <b>TO</b> RTD <b>GEOLOGICAL SUPERVISION FROM</b> 3907' <b>to</b> RTD <b>GEOLOGIST ON WELL</b> Tim J. Lauer	<b>ELECTRICAL SURVEYS</b>

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Anhydrite		1589 (+842)
Heebner		3972 (-1541)
Lansing		4020 (-1589)
Stark		
Marmaton		
Fort Scott		
Cherokee Shale		
Mississippian		
Total Depth		

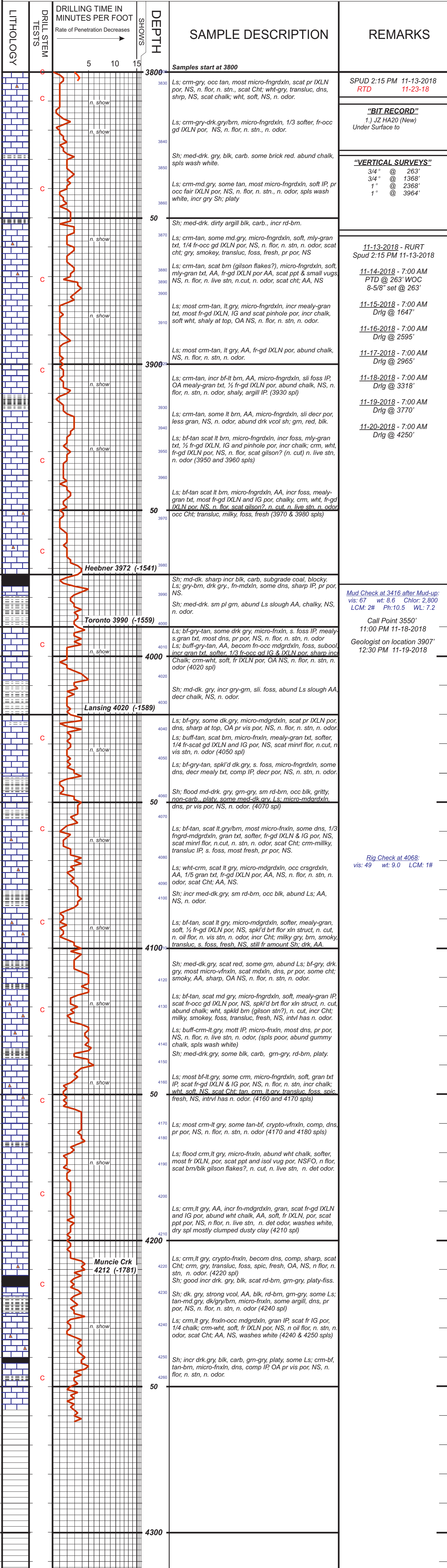


**REMARKS**

38.026739645  
-99.906751055  
"NAD 27"

### LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc  
202 W Main St  
Salem IL  
62661+1519  
ATTN: Tim Lauer

**25/23S/24W/Hodgeman**

**Bradford #1-25**

Job Ticket: 64560

**DST#: 1**

Test Start: 2018.11.22 @ 01:21:00

## GENERAL INFORMATION:

Formation: **Cong. Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:47:32

Time Test Ended: 07:43:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 142

Interval: **4678.00 ft (KB) To 4714.00 ft (KB) (TVD)**

Reference Elevations: 2431.00 ft (KB)

Total Depth: 4714.00 ft (KB) (TVD)

2423.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 20.79 psig @ 4679.00 ft (KB)

Capacity: psig

Start Date: 2018.11.22

End Date:

2018.11.22

Last Calib.:

2018.11.22

Start Time: 01:21:01

End Time:

07:43:02

Time On Btm:

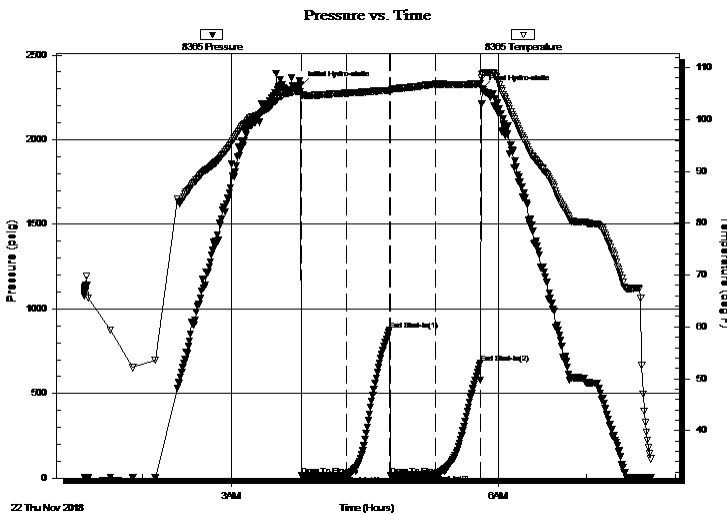
2018.11.22 @ 03:47:02

Time Off Btm:

2018.11.22 @ 05:49:17

TEST COMMENT: I.F. 30 Mintues/ Blow built to 3/4 inch  
I.S.I. 30 Minutes/ No blow back  
F.F. 30 Minutes/ Surface blow no build  
F.S.I. 30 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.01	105.33	Initial Hydro-static
1	14.07	104.67	Open To Flow (1)
31	17.01	105.07	Shut-In(1)
60	873.84	105.60	End Shut-In(1)
61	18.12	105.33	Open To Flow (2)
91	20.79	106.78	Shut-In(2)
121	678.06	106.89	End Shut-In(2)
123	2298.67	108.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

**25/23S/24W/Hodgeman**

202 W Main St

**Bradford #1-25**

Salem IL

Job Ticket: 64560

**DST#: 1**

62661+1519

ATTN: Tim Lauer

Test Start: 2018.11.22 @ 01:21:00

## GENERAL INFORMATION:

Formation: **Cong. Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:47:32

Time Test Ended: 07:43:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 142

**Interval: 4678.00 ft (KB) To 4714.00 ft (KB) (TVD)**

Reference Elevations: 2431.00 ft (KB)

Total Depth: 4714.00 ft (KB) (TVD)

2423.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6752 Outside**

Press@RunDepth: 670.46 psig @ 4680.00 ft (KB)

Capacity: psig

Start Date: 2018.11.22

End Date:

2018.11.22

Last Calib.:

2018.11.22

Start Time: 01:21:01

End Time:

07:44:02

Time On Btm:

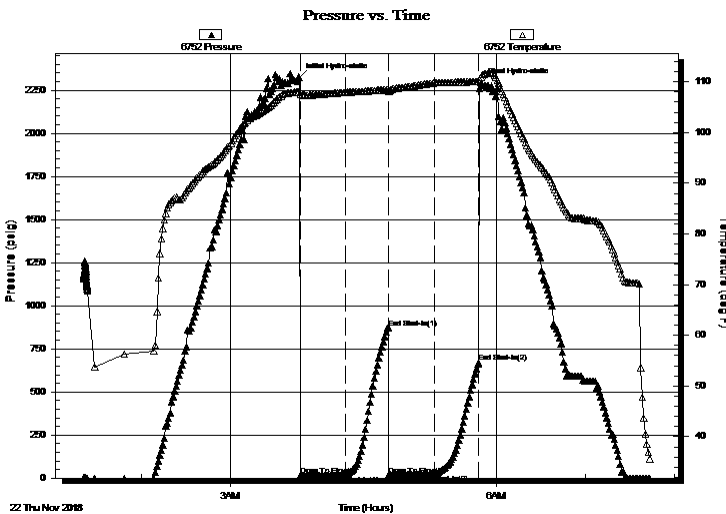
2018.11.22 @ 03:46:47

Time Off Btm:

2018.11.22 @ 05:49:32

TEST COMMENT: I.F. 30 Mintues/ Blow built to 3/4 inch  
 I.S.I. 30 Minutes/ No blow back  
 F.F. 30 Minutes/ Surface blow no build  
 F.S.I. 30 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.30	107.96	Initial Hydro-static
1	14.23	107.53	Open To Flow (1)
31	17.66	107.90	Shut-In(1)
60	873.33	108.43	End Shut-In(1)
61	18.55	108.19	Open To Flow (2)
91	21.00	109.75	Shut-In(2)
121	670.46	110.13	End Shut-In(2)
123	2293.36	110.94	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co. Inc

**25/23S/24W/Hodgeman**

202 W Main St  
Salem IL  
62661+1519  
ATTN: Tim Lauer

**Bradford #1-25**

Job Ticket: 64560

**DST#: 1**

Test Start: 2018.11.22 @ 01:21:00

## 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: 5600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

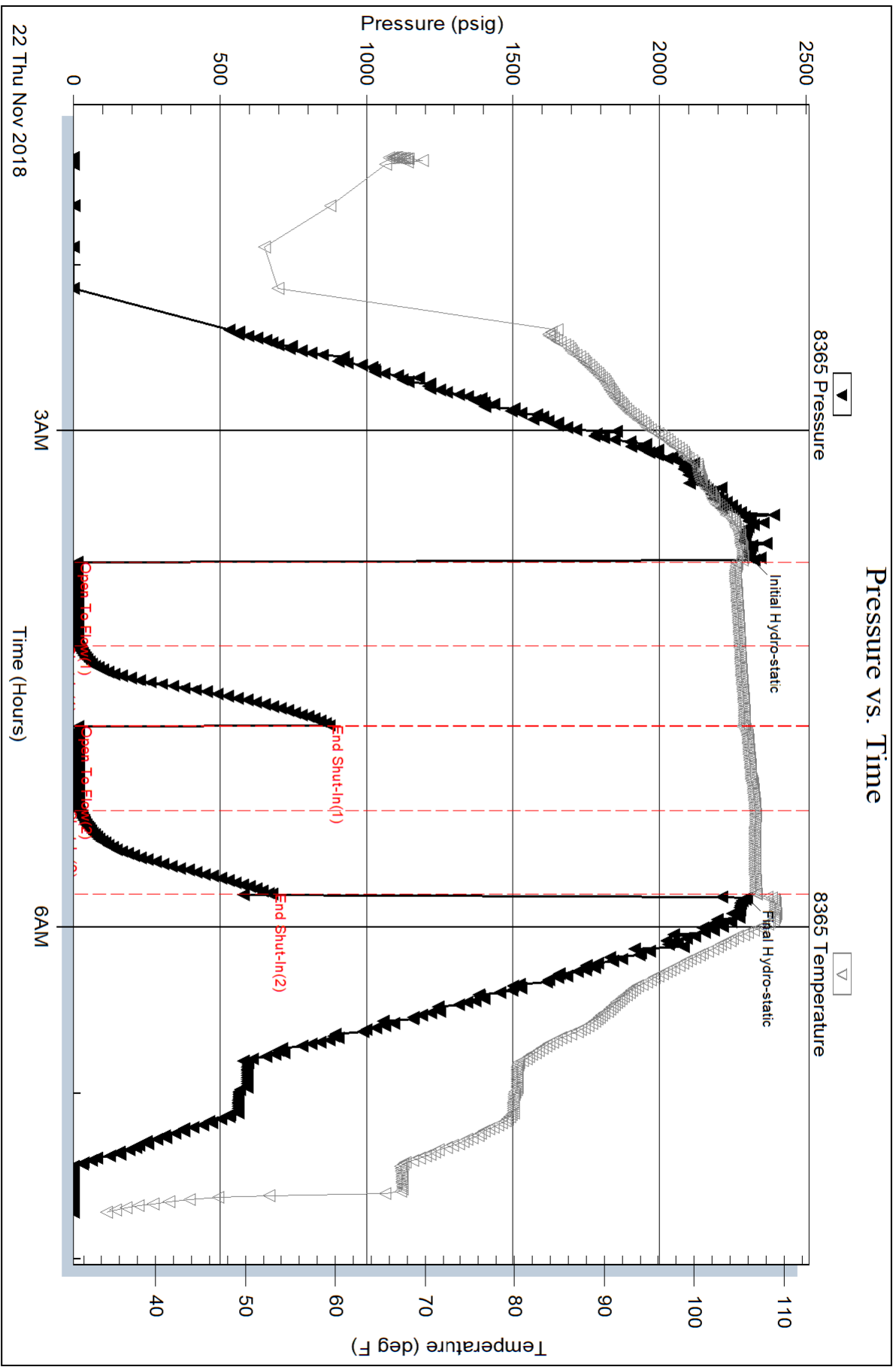
Num Gas Bombs: 0

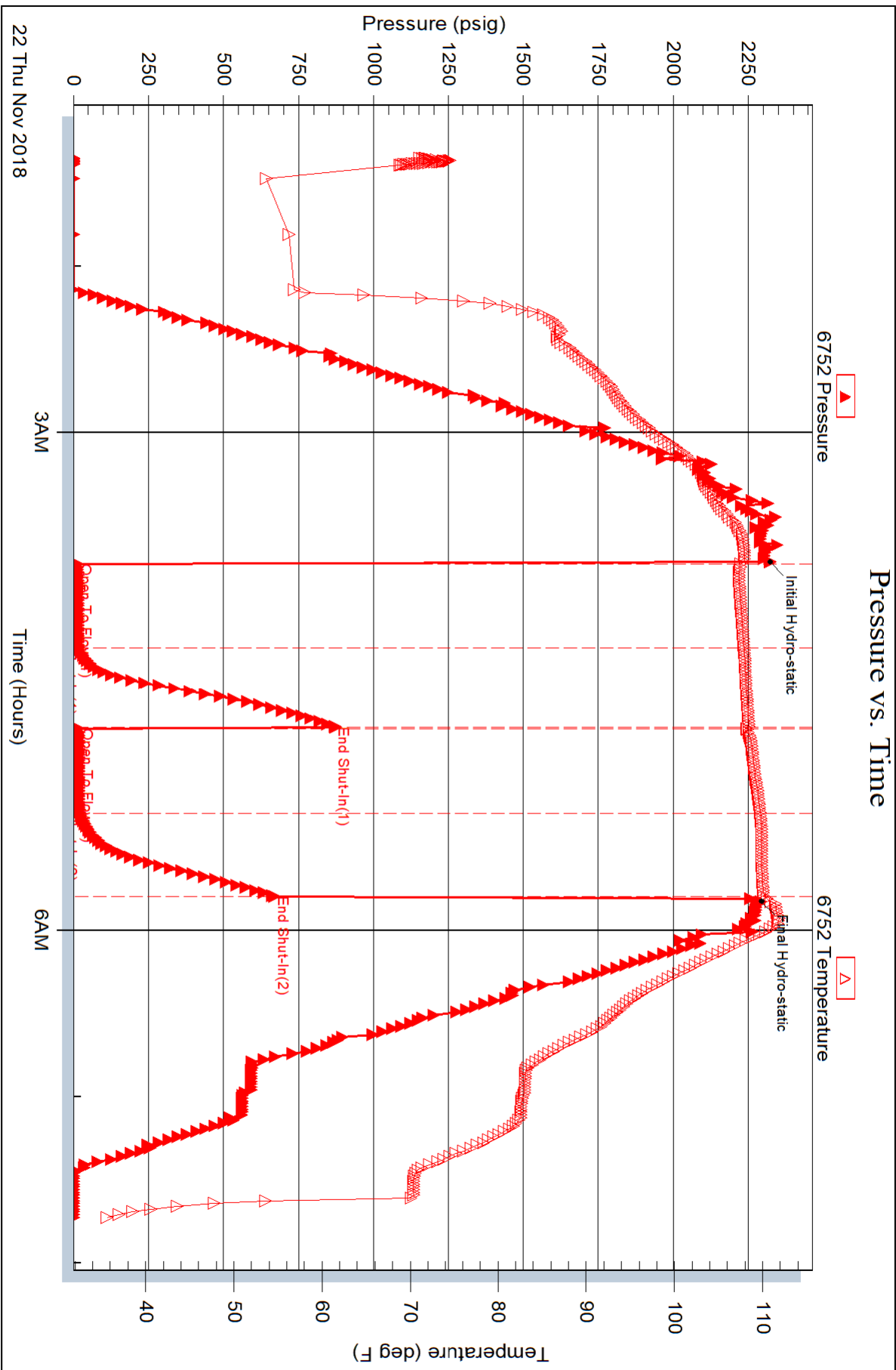
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







P. O. Box 466  
 Ness City, KS 67560  
 Off: 785-798-2300



# Invoice

DATE	INVOICE #
11/13/2018	31911

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-25	Bradford	Hodgeman	Duke Drlg Rig #2	Oil	Development	Cement Surface ...	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	35	Miles	5.00	175.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)	1	Job	875.00	875.00
325	Standard Cement	165	Sacks	13.00	2,145.00T
279	Bentonite Gel	3	Sack(s)	30.00	90.00T
278	Calcium Chloride	7	Sack(s)	40.00	280.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement	165	Sacks	1.75	288.75
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				4,187.75
	Sales Tax Hodgeman County			7.65%	198.82

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502-5  
 DH

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$4,386.57
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DW



TICKET 031911

CHARGE TO: Shakesphere Oil  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Ness City, KS</u>	<u>1-25</u>	<u>Bradford</u>	<u>Hodgeman</u>	<u>KS</u>	<u>Jetmore</u>	<u>11/13/2018</u>	
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE	<u>Duke</u>	<u>2</u>	<u>CT</u>	<u>Location</u>		
4.	WELL CATEGORY	<u>Development</u>	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS		<u>Cement Surface Pipe</u>		<u>Jetmore, 4-S. 14-W</u>		

PRICE FERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY. U/M		UNIT PRICE	AMOUNT
		LOC	ACCT		DF			
575		1		MILEAGE Trk #112		35 mi	5.00	175.00
576.5		1		Pump Change - Shallow Surface		1 job	875.00	875.00
325		1		Standard Cement		165 sks	13.00	2145.00
279		1		Bentonite Gel		3 sks	30.00	90.00
278		1		Calcium Chloride		7 sks	40.00	280.00
290		1		D-Air		2 gal	42.00	84.00
581		1		Service Charge - Cement		165 sks	1.25	206.25
582		1		Minimum Drayage		1 job	250.00	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 X

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	4386.57
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

DATE SIGNED: 11/14/2018 TIME SIGNED: 1:15  A.M.  P.M.

SWIFT OPERATOR: William Trudy APPROVAL: Don Vasey

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE: 11/13/2018  
PAGE NO.: 1

CUSTOMER: Shakespeare Oil & Gas  
WELL NO.: 1-25  
LEASE: Bradford  
JOB TYPE: Surface Pipe  
TICKET NO.: 031911

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							On Location 8 5/8" 23# Pipe RTD: 263
	2230							Start 8 5/8" 23# Casing in Well
	2345							Break Circulation
	0015	4 1/2	5		✓		100	Pump 5bbl water Spacer
	0020	4 1/2	40		✓		100	Mix 165 sks Standard 2% gel 3/CC Cement
	0035	4 1/2	0		✓		0	Start Displacement
	0040	4 1/2	9		✓		100	Circulate Cement to Surface
	0045	4 1/2	16		✓		200	KO Pump + Shut in
	0050							Wash-up Truck
	0115							Job Complete Thank You, Cideon, Preston, Kirby

**Quality Well Service, Inc.**

**PO Box 468  
Pratt, KS 67124**

**Invoice**

Date	Invoice #
11/26/2018	C-1899

Bill To
Shakespeare Oil Co. 202 W. Main Salem, IL 62881

*INT*

P.O. No.	Terms	Lease Name
		<u>Bradford #1-25</u>

Description	Qty	Rate	Amount
Common	138	15.50	2,139.00T
Poz	92	9.50	874.00T
Gel	8	22.00	176.00T
Flo-Seal	57.5	3.70	212.75T
Dry Hole Plug <i>PHA</i>	1	66.00	66.00T
Plug	1	950.00	950.00T
Handling	238	2.10	499.80T
.08 * sacks * miles	14,000	0.08	1,120.00T
Service Supervisor	1	150.00	150.00T
LMV	60	3.75	225.00T
Heavy Equipment Mileage	120	8.00	960.00T
Customer Discount		-2,211.76	-2,211.76
Discount Expires after 30 days from the date of the invoice		0.00	0.00
<p>Bradford #1-25 Hodgeman Co.</p>			

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NOV 30 2018

*502-5  
DH*

Thank You for your business!	<b>Subtotal</b>	\$5,160.79
	<b>Sales Tax (7.65%)</b>	\$394.80
	<b>Total</b>	\$5,555.59

*DW*

# QUALITY WELL SERVICE, INC.

6984

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-23-18	25	23S	24W	Hodgeman	Ks		
Lease Bradford	Well No. 1-25	Location JERMORE, Ks. 4 S 1/4 W S1W into					
Contractor Duke Dalg. Rig #2				Owner			
Type Job PTA				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 7 7/8	T.D. 4910'						
Csg. 4 1/2 D.P.	Depth 1650'	Charge To SHAKESPEARE OIL COMPANY INC					
Tbg. Size	Depth	Street 202 W. MAIN					
Tool	Depth	City SALEM State IL. 62881					
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace	Cement Amount Ordered 23256 60/40 4% GEL					
<b>EQUIPMENT</b>				1/4" CF.			
Pumptrk 8 No.	IS	Common 133					
Bulktrk 4 No.	JAVE	Poz. Mix 92					
Bulktrk No.		Gel. B					
Pickup No.		Calcium					
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Rat Hole 305x	Salt						
Mouse Hole	Flowseal 57.5						
Centralizers	Kol-Seal						
Baskets	Mud CLR 48						
D/V or Port Collar	CFL-117 or CD110 CAF 38						
on Loc Rig Laying down Collars	Sand						
1st Plug 1650' 50s 60/40 4% GEL 1/4" CF.	Handling 233						
Pump H2O	Mileage 60						
Mix Pump 50s 60/40 4% GEL 1/4" CF	<b>FLOAT EQUIPMENT</b>						
Disp H2O	Guide Shoe 8 7/8 D.V. HOLE PLUG						
Disp W/M 0	Centralizer						
2nd Plug 770' 80s 60/40 4% GEL 1/4" CF	Baskets						
Pump H2O	AFU Inserts						
Mix Pump 80s 60/40 4% GEL 1/4" CF.	Float Shoe						
Disp H2O	Latch Down						
3rd Plug 300' 50s 60/40 4% GEL 1/4" CF	SERVICE SPECIMEN						
Pump H2O	LMV 60						
Mix Pump 50s 60/40 4% GEL 1/4" CF.	Pumptrk Charge PTA						
Disp H2O	Mileage 120						
4th Plug 60' 20s 60/40 4% GEL 1/4" CF.							
Thank you PLEASE Call AEAH TOOK SAKE							
X Signature Jim Varguez							
						Tax	
						Discount	
						Total Charge	





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc  
202 W Main St  
Salem IL  
62661+1519  
ATTN: Tim Lauer

**25/23S/24W/Hodgeman**

**Bradford #1-25**

Job Ticket: 64561

**DST#: 2**

Test Start: 2018.11.22 @ 14:51:00

## GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:57:32

Time Test Ended: 21:49:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 142

**Interval: 4679.00 ft (KB) To 4724.00 ft (KB) (TVD)**

Reference Elevations: 2431.00 ft (KB)

Total Depth: 4724.00 ft (KB) (TVD)

2423.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 21.41 psig @ 4680.00 ft (KB)

Capacity: psig

Start Date: 2018.11.22

End Date:

2018.11.22

Last Calib.:

2018.11.22

Start Time: 14:51:01

End Time:

21:49:02

Time On Btm:

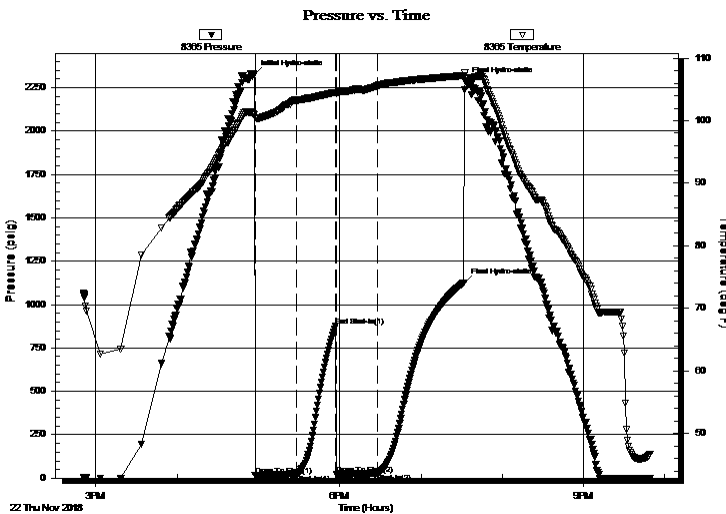
2018.11.22 @ 16:57:02

Time Off Btm:

2018.11.22 @ 19:31:47

**TEST COMMENT:** I.F. 30 Minutes/ Blow built to 1 1/4 inch  
I.S.I. 30 Minutes/ No blow back  
F.F. 30 Minutes/ Surface blow did not build  
F.S.I. 60 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2323.83	100.99	Initial Hydro-static
1	16.44	100.42	Open To Flow (1)
31	21.41	103.26	Shut-In(1)
60	874.41	104.49	End Shut-In(1)
61	22.65	104.28	Open To Flow (2)
91	26.51	105.64	Shut-In(2)
155	1126.54	107.23	Final Hydro-static
156	2285.13	106.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w /light oil spot in tool	0.35

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc  
 202 W Main St  
 Salem IL  
 62661+1519  
 ATTN: Tim Lauer

**25/23S/24W/Hodgeman**

**Bradford #1-25**

Job Ticket: 64561

**DST#: 2**

Test Start: 2018.11.22 @ 14:51:00

## GENERAL INFORMATION:

Formation: **Cong. Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:57:32  
 Time Test Ended: 21:49:02  
 Interval: **4679.00 ft (KB) To 4724.00 ft (KB) (TVD)**  
 Total Depth: 4724.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 142  
 Reference Elevations: 2431.00 ft (KB)  
 2423.00 ft (CF)  
 KB to GR/CF: 8.00 ft

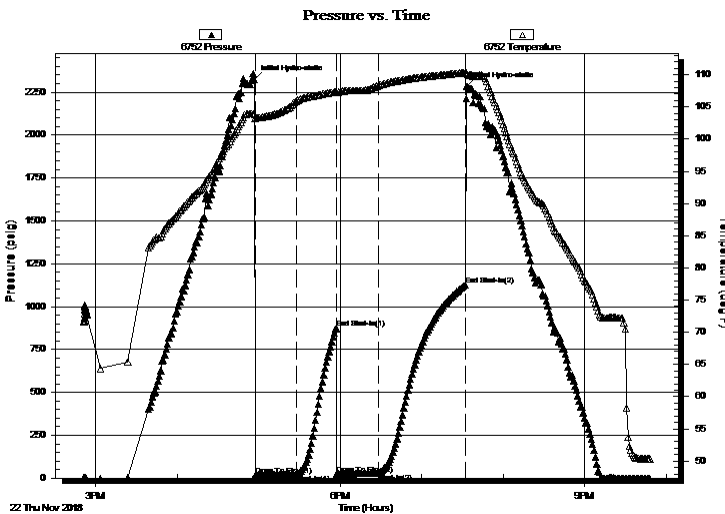
## Serial #: 6752

**Outside**

Press@RunDepth: 1126.03 psig @ 4681.00 ft (KB) Capacity: psig  
 Start Date: 2018.11.22 End Date: 2018.11.22 Last Calib.: 2018.11.22  
 Start Time: 14:51:01 End Time: 21:48:02 Time On Btm: 2018.11.22 @ 16:57:02  
 Time Off Btm: 2018.11.22 @ 19:33:02

TEST COMMENT: I.F. 30 Minutes/ Blow built to 1 1/4 inch  
 I.S.I. 30 Minutes/ No blow back  
 F.F. 30 Minutes/ Surface blow did not build  
 F.S.I. 60 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2323.41	103.79	Initial Hydro-static
1	17.48	103.19	Open To Flow (1)
31	22.54	105.92	Shut-In(1)
60	873.94	107.31	End Shut-In(1)
61	24.03	107.27	Open To Flow (2)
91	27.80	108.34	Shut-In(2)
155	1126.03	110.36	End Shut-In(2)
156	2284.82	110.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w /light oil spot in tool	0.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co. Inc

**25/23S/24W/Hodgeman**

202 W Main St  
Salem IL  
62661+1519

**Bradford #1-25**

Job Ticket: 64561

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2018.11.22 @ 14:51:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud w /light oil spot in tool	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

Inside

Shakespeare Oil Co. Inc

Bradford #1-25

DST Test Number: 2

