

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. 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>

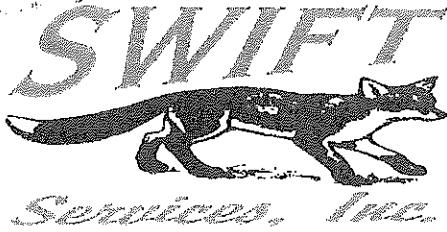
TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	DOHM 1-27
Doc ID	1669109

Tops

Name	Top	Datum
Base Anhydrite	2454	+496
Heebner	3945	-995
Muncie Creek	4117	-1167
Stark Shale	4204	-1254
Hushpuckney	4237	-1287
Pawnee	4389	-1439
Johnson	4526	-1576
Mississippian	4556	-1606





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



# Invoice

DATE	INVOICE #
9/16/2022	35587

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

**RECEIVED**  
SEP 26 2022

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-27	Dohm	Gove	Duke Drlg Rig #4	Oil	Development	Surface	Jonathan

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	7.00	490.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)	1	Job	1,100.00	1,100.00
290	D-Air	2	Gallon(s)	42.00	84.00T
325	Standard Cement	150	Sacks	15.00	2,250.00T
279	Bentonite Gel	6	Sack(s)	40.00	240.00T
278	Calcium Chloride	7	Sack(s)	40.00	280.00T
581D	Service Charge Cement	150	Sacks	2.00	300.00
583D	Drayage	516.25	Ton Miles	1.00	516.25
	Subtotal				5,260.25
	Sales Tax Gove County			8.50%	242.59

502-5 9

**We Appreciate Your Business!**

**Total**

\$5,502.84

*DW*



Services, Inc.

CHARGE TO: *Shaw Spencer Co.*  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 35587  
 PAGE 1 OF 1

1. SERVICE LOCATIONS: *Hwy 2, KS*

2. WELL/PROJECT NO.: *Down* LEASE: *1-27* COUNTY/PARISH: *Boone* STATE: *KS* CITY: *CT* DATE: *09/16/12* ORDER NO.: *122* OWNER: *same*

3. TICKET TYPE:  SERVICE  SALES CONTRACTOR: *Duke Drilling* RIG NAME/NO.: *#2* SHIPPED VIA: *CT Location*

4. WELL TYPE: *d,1* WELL CATEGORY: *Development* JOB PURPOSE: *Surface* WELL PERMIT NO.:  WELL LOCATION:

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.		
575						#113	70	mi		7.00	490.00
576.5						Pump Charge - Shallow Surface	1	EA		1100.00	1100.00
248						B-Air	2	gal		42.00	84.00
325						Standard Cement	150	SKS		15.00	2250.00
279						Bentonite Gel	6	SKS		40.00	240.00
278						Calcium Chloride	7	SKS		40.00	280.00
581						Service Charge Cement	150	SKS		2.00	300.00
							516.25	SM		1.00	516.25
											5,260.00

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.

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

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_  A.M.  P.M.

SURVEY:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  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?  CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: *500K* TOTAL: *5260.00*

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

SWIFT OPERATOR: *[Signature]* APPROVAL: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE	PAGE NO.
09/16/22	1
TICKET NO.	
35587	

CUSTOMER	WELL NO.	LEASE	JOB TYPE
Shakespeare Oil	1-27	Dohm	Surface

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	1300							On location, Rig Picking up landing It. Set up trucks  214' of 8 5/8 x 23# set at 225'
--	------	--	--	--	--	--	--	---

	1305 1320							Break Circulation Hook up to Swift
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		3	5					Pump wtr ahead Start Cement Finish Cement, Start Displacement Cmt Circulated to Surface Finish Displacement
		3 1/2						
		3 1/2	36					
		3 1/2	12 1/2					
		3 1/2	13 1/2					

	1335							Shut in. Release Truck Wash up Rack up
--	------	--	--	--	--	--	--	---

	1400							Job Complete  Thanks Jon, Joe, Brett
--	------	--	--	--	--	--	--	---



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

# Invoice

DATE	INVOICE #
9/25/2022	34726

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

**RECEIVED**  
SEP 30 2022

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-27	Dohm	Gove	Duke Drlg Rig #4	Oil	Development	PTA	Preston
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	7.00	560.00
576D-P	Pump Charge - PTA				1	Job	1,100.00	1,100.00
328-4	60/40 Pozmix (4% Gel)				240	Sacks	12.50	3,000.00T
276	Flocele				60	Lb(s)	3.00	180.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
410-8	8 5/8" Top Plug				1	Each	150.00	150.00T
581D	Service Charge Cement				240	Sacks	2.00	480.00
583D	Drayage				806	Ton Miles	1.00	806.00
	Subtotal							6,360.00
	Sales Tax Gove County						8.50%	290.19
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$6,650.19

*502-59*

*dw*





Services, Inc.

TICKET 34726

CHARGE TO: Shelle Spear OIL  
 ADDRESS  
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

1. SERVICE LOCATIONS  
Ness City  
 WELL/PROJECT NO. #1-27  
 LEASE Dohn  
 COUNTY/PARISH Goze  
 STATE MS  
 CITY location  
 DATE 9-25-22  
 OWNER  
 ORDER NO.  
 2. TICKET TYPE  
 SERVICE  
 SALES  
 CONTRACTOR Duke  
 RIG NAME/NO.  
 3. WELL TYPE  
OIL  
 WELL CATEGORY Development  
 JOB PURPOSE PTA  
 WELL PERMIT NO.  
 4. REFERRAL LOCATION  
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY. U/M		QTY. U/M		UNIT PRICE	AMOUNT		
				QTY.	U/M	QTY.	U/M				
575			MILEAGE Truck 112	80	mi			7.00	560.00		
576 P			purp charge	1	Job			1100.00	1100.00		
328-4			60/40 permix 49 gal	240	SK			12.50	3000.00		
276			Floacle	60	lbs			3.00	180.00		
290			D-Air	2	gal			42.00	84.00		
410			Top Plug	1	ea			150.00	150.00		
581			CMT Service Charge	240	SK			2.00	480.00		
583			Dray age	20148	lbs			1.00	806.00		
REMIT PAYMENT TO:				PAGE TOTAL		6360.00		6360.00			
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.				SURVEY		AGREE		DISAGREE		TOTAL	
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.				OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		UNDECIDED		DISAGREE		6650.00	
X				WE UNDERSTOOD AND MET YOUR NEEDS?						290.00	
DATE SIGNED				OUR SERVICE WAS PERFORMED WITHOUT DELAY?						6650.00	
TIME SIGNED				WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						6650.00	
<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.				ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES <input type="checkbox"/> NO				6650.00	
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES				CUSTOMER DID NOT WISH TO RESPOND						6650.00	

SWIFT OPERATOR P. D. ... APPROVAL  
 The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 Thank You!

# SWIFT Services, Inc.

DATE 9-25-22	PAGE NO. 1
TICKET NO. 34726	

## JOB LOG

CUSTOMER Shokopoot	WELL NO. #1-27	LEASE Dohm	JOB TYPE PTA
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	5:30							ON location plug thru drill pipe
	7:15	3.5	13	✓		200		1 <sup>st</sup> plug at 2475' 50SKS
		3.5	30	✓		200		displace w/mud
	8:00	4	26	✓		250		2 <sup>nd</sup> plug at 1575' 100SKS
		4	10	✓		250		displace CMT w/h2o
	9:00		13	✓				3 <sup>rd</sup> plug at 275' 50SK
			1	✓				displace CMT
	10:25		2.5	✓				4 <sup>th</sup> plug 40' 10SKS
	10:30		8					plug RH 30 SK
	10:00							<del>wash</del> Wash Truck
	11:00							Job Complete Thanks! Prostey Mark, Brett
								240 SKS 60/40 perz mix 490 gal used



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

**Dohm #1-27**

**27-11s-31w Gove,KS**

Start Date: 2022.09.20 @ 20:03:48

End Date: 2022.09.21 @ 02:26:18

Job Ticket #: 69140                      DST #: 1

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

Printed: 2022.09.26 @ 16:55:45



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69140

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.09.20 @ 20:03:48

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:49:48

Time Test Ended: 02:26:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 4115.00 ft (KB) To 4145.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4145.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 28.04 psig @ 4116.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.20 End Date: 2022.09.21

Last Calib.: 2022.09.21

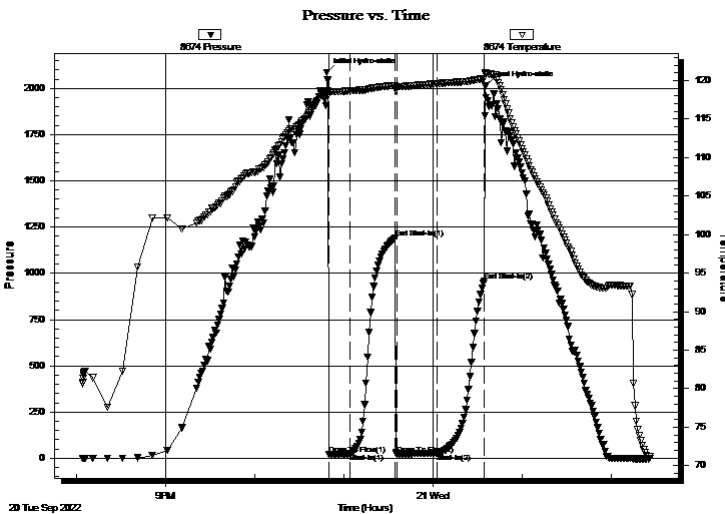
Start Time: 20:03:53 End Time: 02:26:17

Time On Btm: 2022.09.20 @ 22:48:18

Time Off Btm: 2022.09.21 @ 00:35:18

**TEST COMMENT:** IF: 1/4" blow built to 1"  
IS: No return.  
FF: 1/2" blow built to 3 1/2"  
FS: No return. 15-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.94	118.42	Initial Hydro-static
2	22.72	118.16	Open To Flow (1)
16	24.84	118.67	Shut-In(1)
46	1190.15	119.38	End Shut-In(1)
47	22.12	119.10	Open To Flow (2)
74	28.04	119.60	Shut-In(2)
106	958.21	120.27	End Shut-In(2)
107	2012.70	121.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 10%o 90%m	0.14

## Gas Rates

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



# DRILL STEM TEST REPORT

Shakespeare Oil Co

27-11s-31w Gove,KS

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69140

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.09.20 @ 20:03:48

### GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:49:48

Time Test Ended: 02:26:18

**Interval: 4115.00 ft (KB) To 4145.00 ft (KB) (TVD)**

Total Depth: 4145.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 2949.00 ft (KB)

2939.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8790**      **Inside**

Press@RunDepth:                      psig @      4116.00 ft (KB)

Start Date:                      2022.09.20                      End Date:                      2022.09.21                      Capacity:                      8000.00 psig

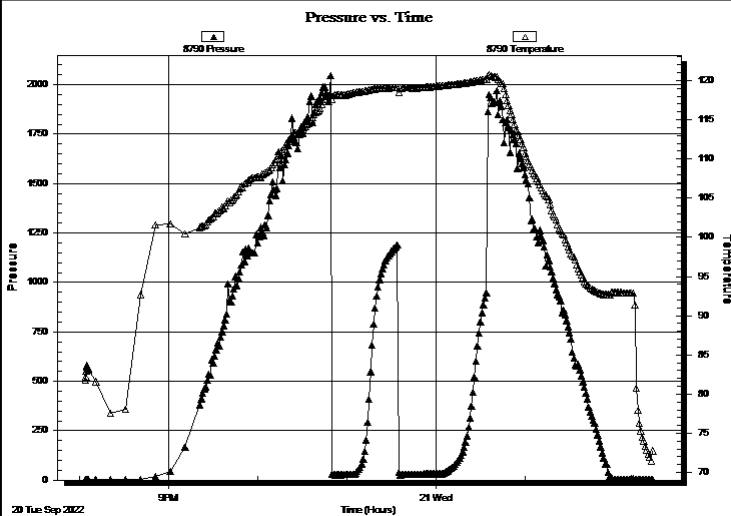
Start Time:                      20:04:01                      End Time:                      02:26:25                      Last Calib.:                      2022.09.21

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 1"  
IS: No return.  
FF: 1/2" blow built to 3 1/2"  
FS: No return. 15-30-30-30

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 10%o 90%m	0.14

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69140

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.09.20 @ 20:03:48

## Tool Information

Drill Pipe:	Length: 4099.00 ft	Diameter: 3.80 inches	Volume: 57.50 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4115.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00		Fluid	4087.00	
Shut In Tool	5.00			4092.00	
Hydraulic tool	5.00			4097.00	
Jars	5.00			4102.00	
EM Tool	2.00			4104.00	
Safety Joint	2.00			4106.00	
Packer	5.00			4111.00	29.00 Bottom Of Top Packer
Packer	4.00			4115.00	
Stubb	1.00			4116.00	
Recorder	0.00	8790	Inside	4116.00	
Recorder	0.00	8674	Outside	4116.00	
Perforations	26.00			4142.00	
Bullnose	3.00			4145.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69140

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.09.20 @ 20:03:48

## 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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	ocm 10%o 90%m	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

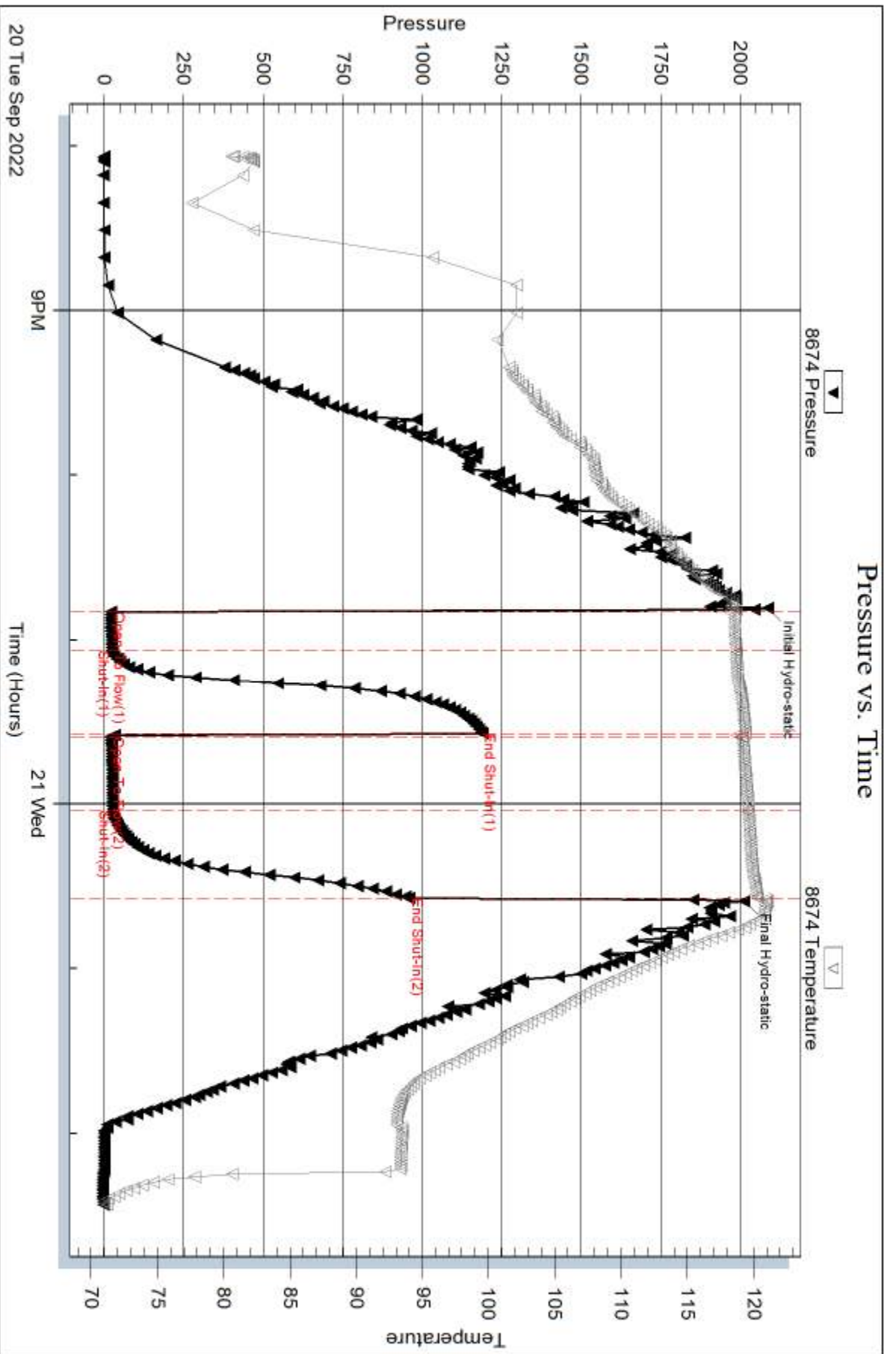
Recovery Comments:

Serial #: 8674

Outside Shakespeare Oil Co

Doim #1-27

DST Test Number: 1





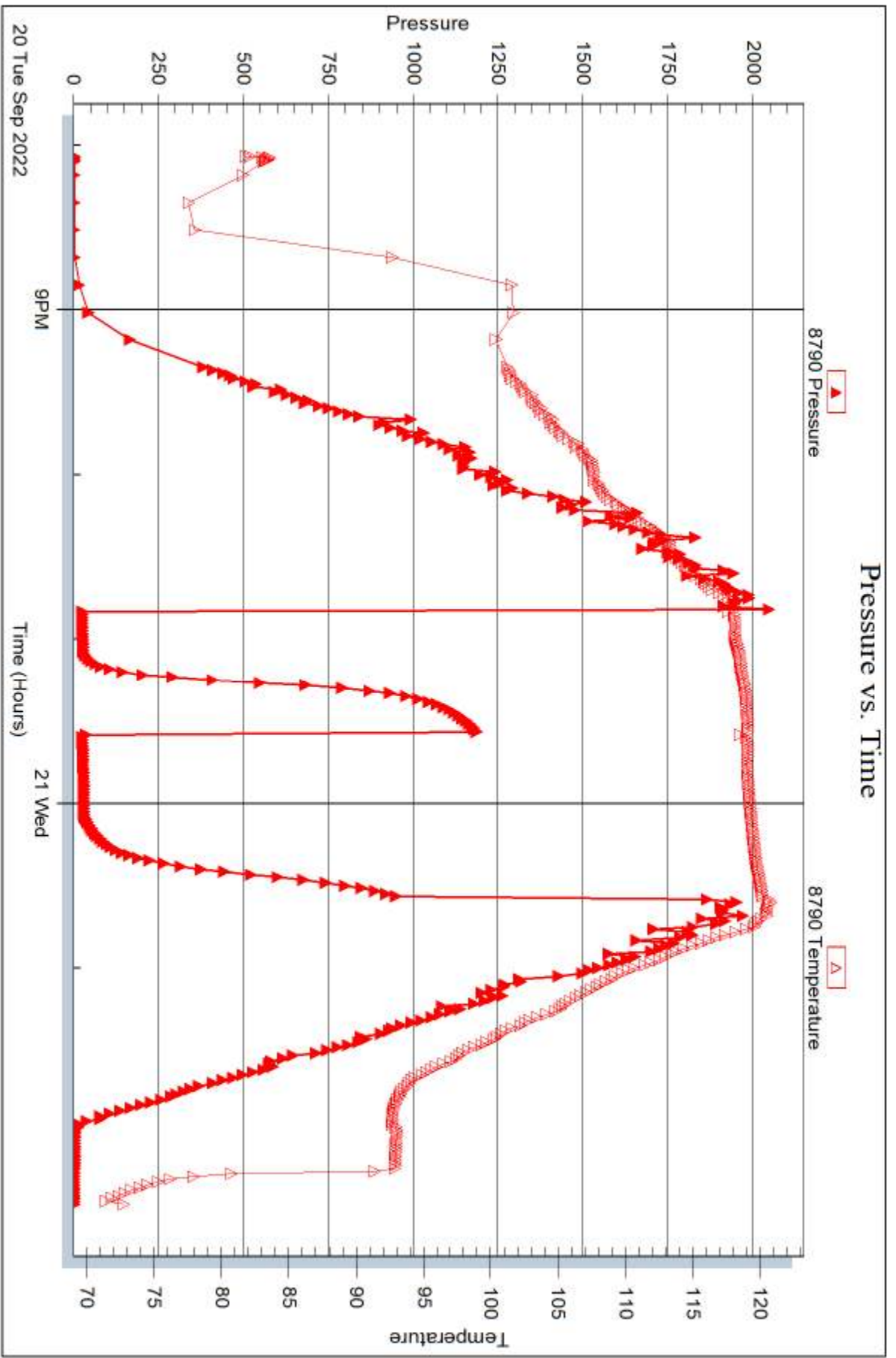
Serial #: 8790

Inside

Shakespeare Oil Co

DoIm #1-27

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

**Dohm #1-27**

**27-11s-31w Gove,KS**

Start Date: 2022.09.21 @ 13:08:54

End Date: 2022.09.21 @ 20:11:24

Job Ticket #: 69141                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.26 @ 16:55:19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69141

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.09.21 @ 13:08:54

## GENERAL INFORMATION:

Formation: **LKC I - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:54

Time Test Ended: 20:11:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4155.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 30.09 psig @ 4156.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.21 End Date: 2022.09.21

Last Calib.: 2022.09.21

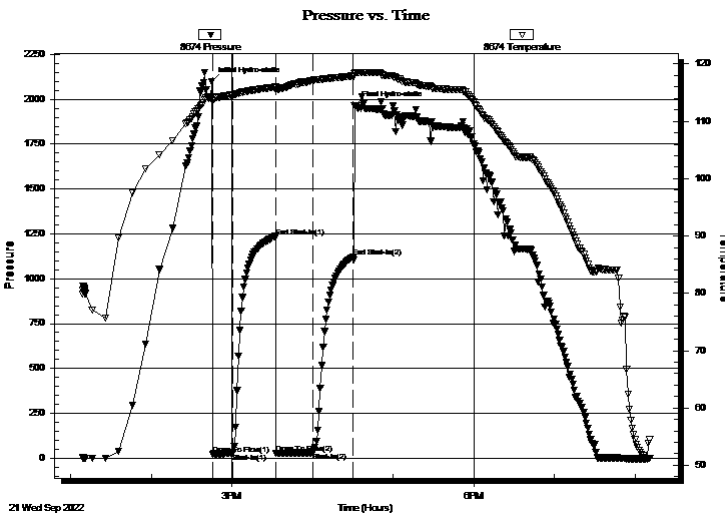
Start Time: 13:08:59 End Time: 20:11:23

Time On Btm: 2022.09.21 @ 14:44:54

Time Off Btm: 2022.09.21 @ 16:31:24

**TEST COMMENT:** IF: Surface blow built to 3/4"  
IS: No return,  
FF: Surface blow built to 1/4"  
FS: No return, 15-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.09	114.22	Initial Hydro-static
1	22.74	113.53	Open To Flow (1)
16	26.19	114.51	Shut-In(1)
48	1235.58	115.98	End Shut-In(1)
48	26.80	115.58	Open To Flow (2)
75	30.09	117.15	Shut-In(2)
106	1122.87	117.91	End Shut-In(2)
107	1965.40	118.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%m	0.21

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69141

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.09.21 @ 13:08:54

## GENERAL INFORMATION:

Formation: **LKC I - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:54

Time Test Ended: 20:11:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4155.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8790** Inside

Press@RunDepth: psig @ 4156.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.21 End Date: 2022.09.21

Last Calib.: 2022.09.21

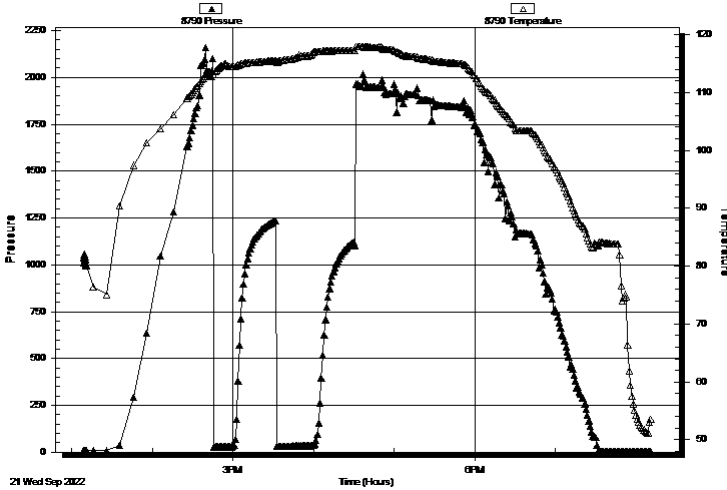
Start Time: 13:08:47 End Time: 20:11:11

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow built to 3/4"  
IS: No return,  
FF: Surface blow built to 1/4"  
FS: No return, 15-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%m	0.21

Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69141

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.09.21 @ 13:08:54

## Tool Information

Drill Pipe:	Length: 4156.00 ft	Diameter: 3.80 inches	Volume: 58.30 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 58.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4155.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4127.00	
Shut In Tool	5.00			4132.00	
Hydraulic tool	5.00			4137.00	
Jars	5.00			4142.00	
EM Tool	2.00			4144.00	
Safety Joint	2.00			4146.00	
Packer	5.00			4151.00	29.00 Bottom Of Top Packer
Packer	4.00			4155.00	
Stubb	1.00			4156.00	
Recorder	0.00	8790	Inside	4156.00	
Recorder	0.00	8674	Outside	4156.00	
Perforations	7.00			4163.00	
Change Over Sub	1.00			4164.00	
Drill Pipe	32.00			4196.00	
Change Over Sub	1.00			4197.00	
Bullnose	3.00			4200.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>74.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69141

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.09.21 @ 13:08:54

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

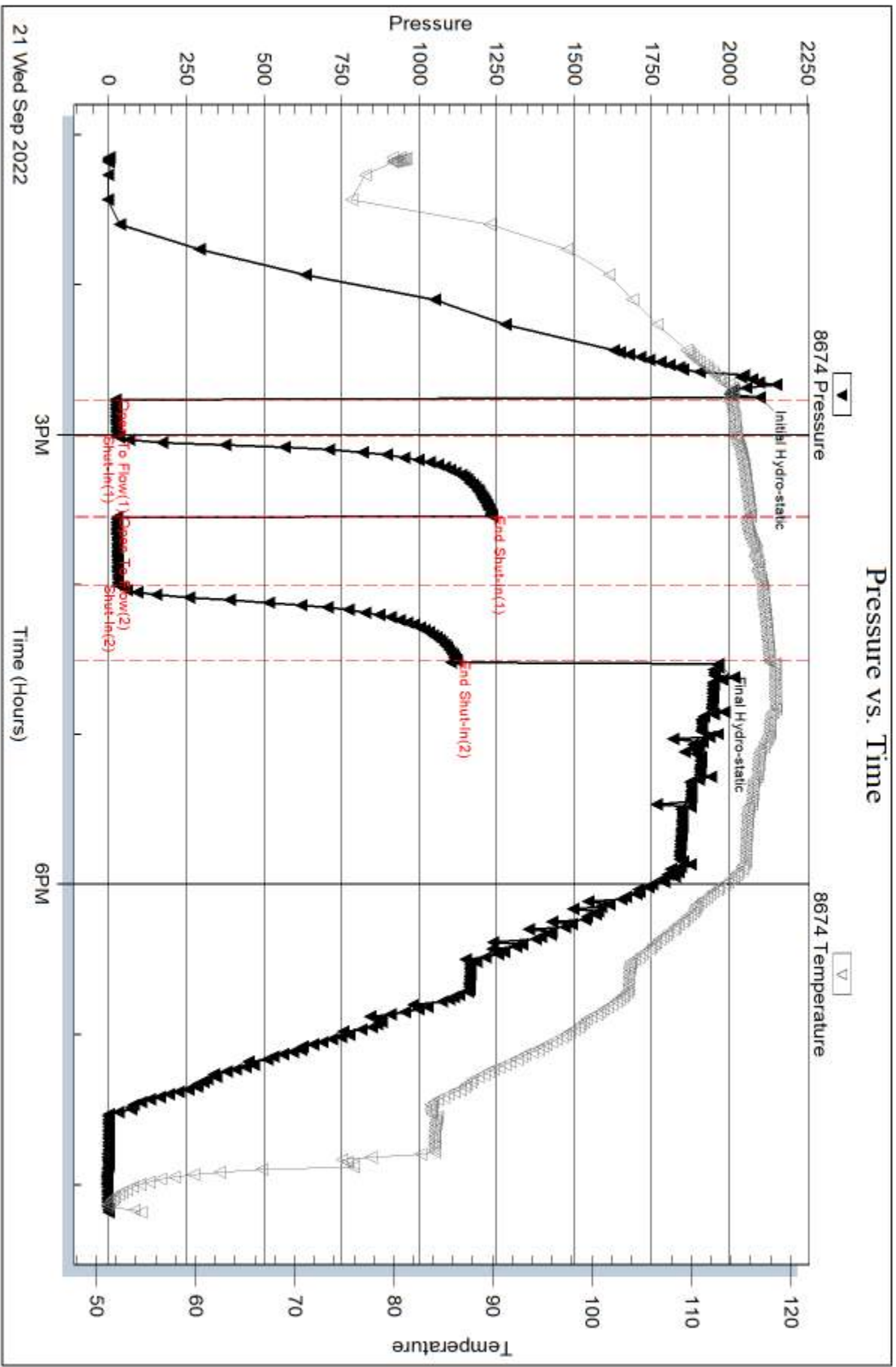
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



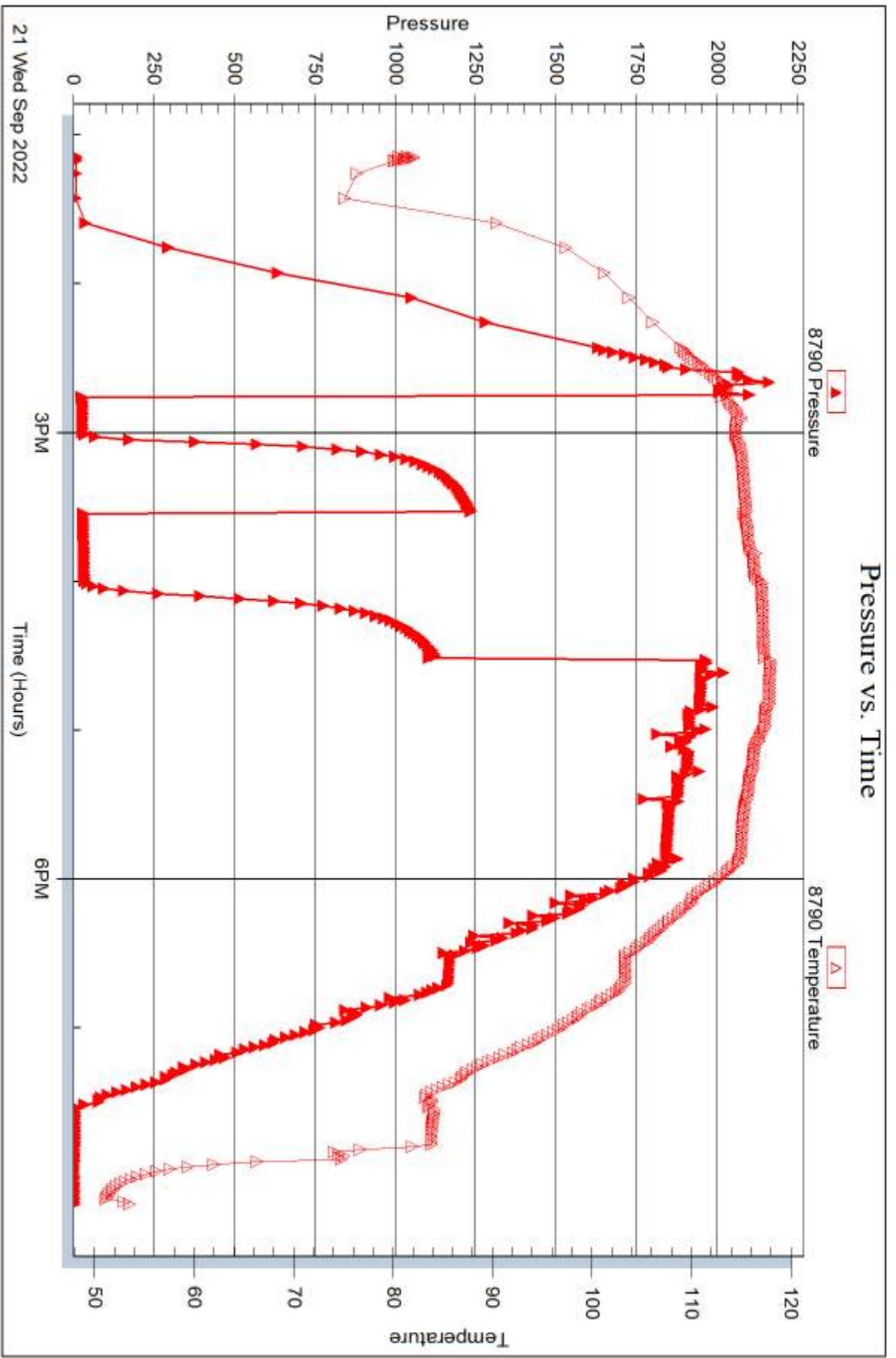
Serial #: 8790

Inside

Shakespeare Oil Co

DoIm #1-27

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69141

Printed: 2022.09.26 @ 16:55:19





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

**Dohm #1-27**

**27-11s-31w Gove,KS**

Start Date: 2022.09.22 @ 13:33:32

End Date: 2022.09.22 @ 19:52:32

Job Ticket #: 69142                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.26 @ 16:54:53



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69142

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.09.22 @ 13:33:32

## GENERAL INFORMATION:

Formation: **LKC K - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:44:02

Time Test Ended: 19:52:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4206.00 ft (KB) To 4270.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 27.96 psig @ 4207.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.22 End Date: 2022.09.22

Last Calib.: 2022.09.22

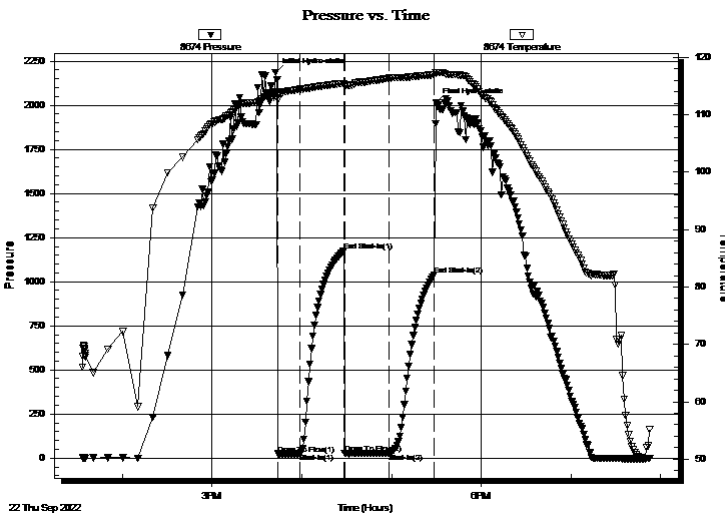
Start Time: 13:33:37 End Time: 19:52:31

Time On Btm: 2022.09.22 @ 15:42:32

Time Off Btm: 2022.09.22 @ 17:30:02

**TEST COMMENT:** IF: 1/2" blow built to 3/4"  
IS: No return.  
FF: Surface blow built to 3/4"  
FS: No return. 15-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.12	113.85	Initial Hydro-static
2	23.61	112.55	Open To Flow (1)
17	24.39	114.47	Shut-In(1)
46	1172.82	115.50	End Shut-In(1)
46	26.29	115.10	Open To Flow (2)
76	27.96	116.40	Shut-In(2)
106	1037.40	117.00	End Shut-In(2)
108	2015.89	117.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud oil spots 100%m	0.28

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

27-11s-31w Gove,KS

202 W Main St  
Salem IL 62881

Dohm #1-27

Job Ticket: 69142

DST#: 3

ATTN: Vern Schrag

Test Start: 2022.09.22 @ 13:33:32

## GENERAL INFORMATION:

Formation: **LKC K - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:44:02

Time Test Ended: 19:52:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4206.00 ft (KB) To 4270.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8790** Inside

Press@RunDepth: psig @ 4207.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.22

End Date: 2022.09.22

Last Calib.: 2022.09.22

Start Time: 13:33:50

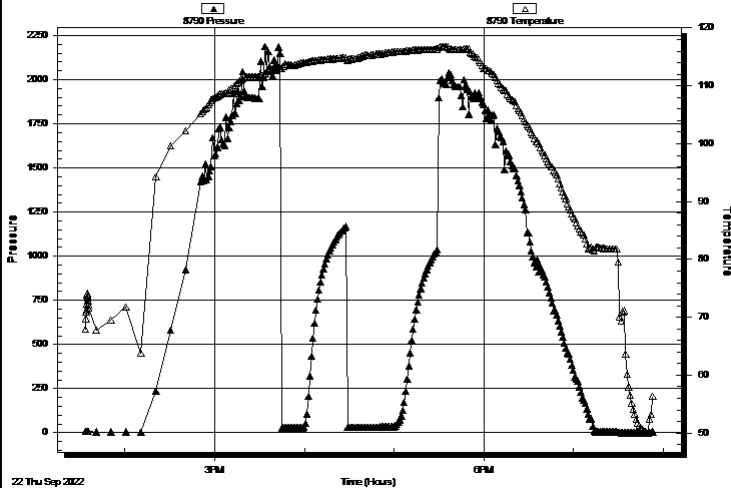
End Time: 19:52:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/2" blow built to 3/4"  
IS: No return.  
FF: Surface blow built to 3/4"  
FS: No return. 15-30-30-30

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud oil spots 100%m	0.28

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69142

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.09.22 @ 13:33:32

## Tool Information

Drill Pipe:	Length: 4192.00 ft	Diameter: 3.80 inches	Volume: 58.80 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.80 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4206.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	93.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4178.00	
Shut In Tool	5.00			4183.00	
Hydraulic tool	5.00			4188.00	
Jars	5.00			4193.00	
EM Tool	2.00			4195.00	
Safety Joint	2.00			4197.00	
Packer	5.00			4202.00	29.00 Bottom Of Top Packer
Packer	4.00			4206.00	
Stubb	1.00			4207.00	
Recorder	0.00	8790	Inside	4207.00	
Recorder	0.00	8674	Outside	4207.00	
Perforations	27.00			4234.00	
Change Over Sub	1.00			4235.00	
Drill Pipe	31.00			4266.00	
Change Over Sub	1.00			4267.00	
Bullnose	3.00			4270.00	64.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>93.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69142

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.09.22 @ 13:33:32

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud oil spots 100%m	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

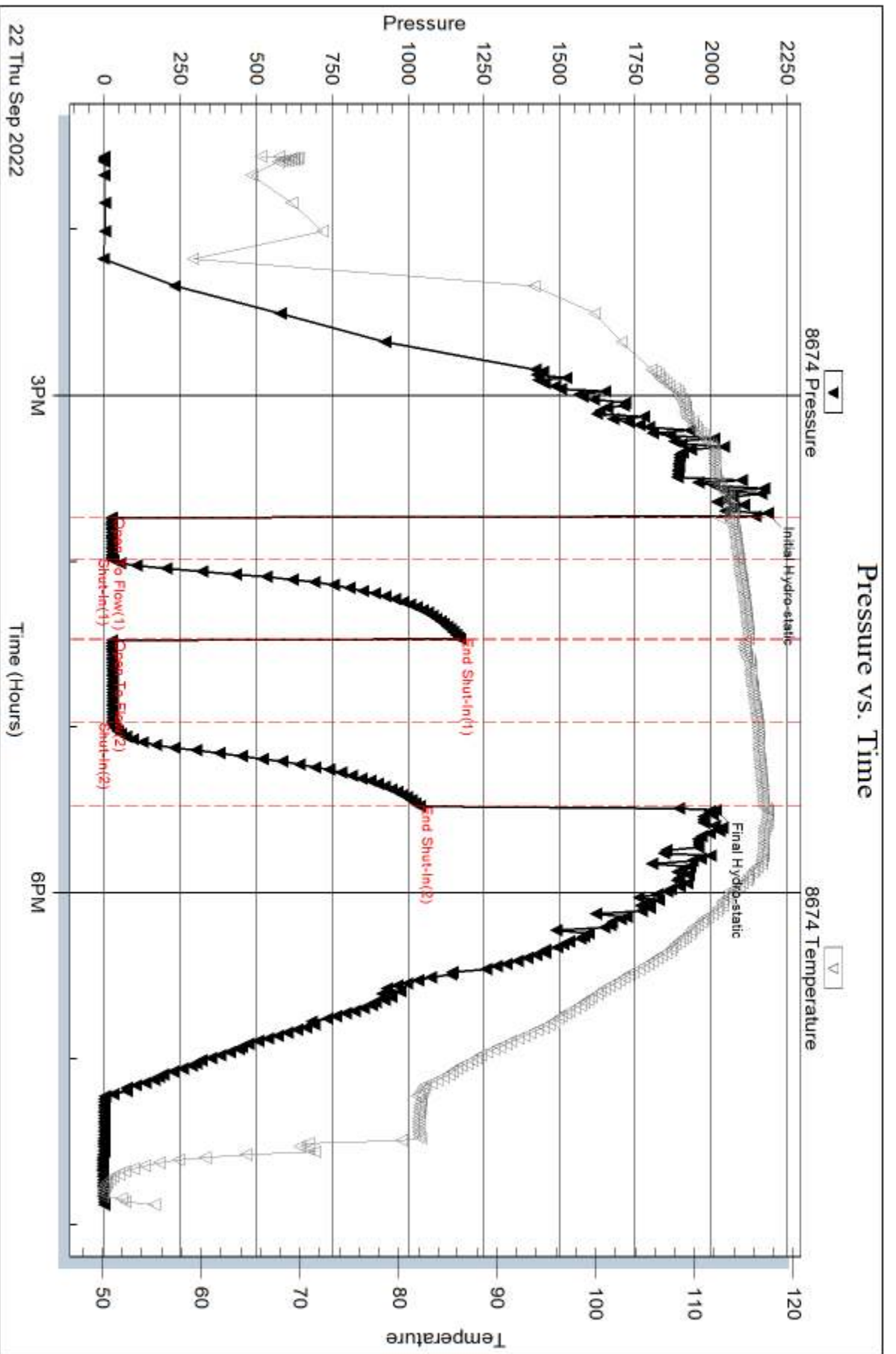
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



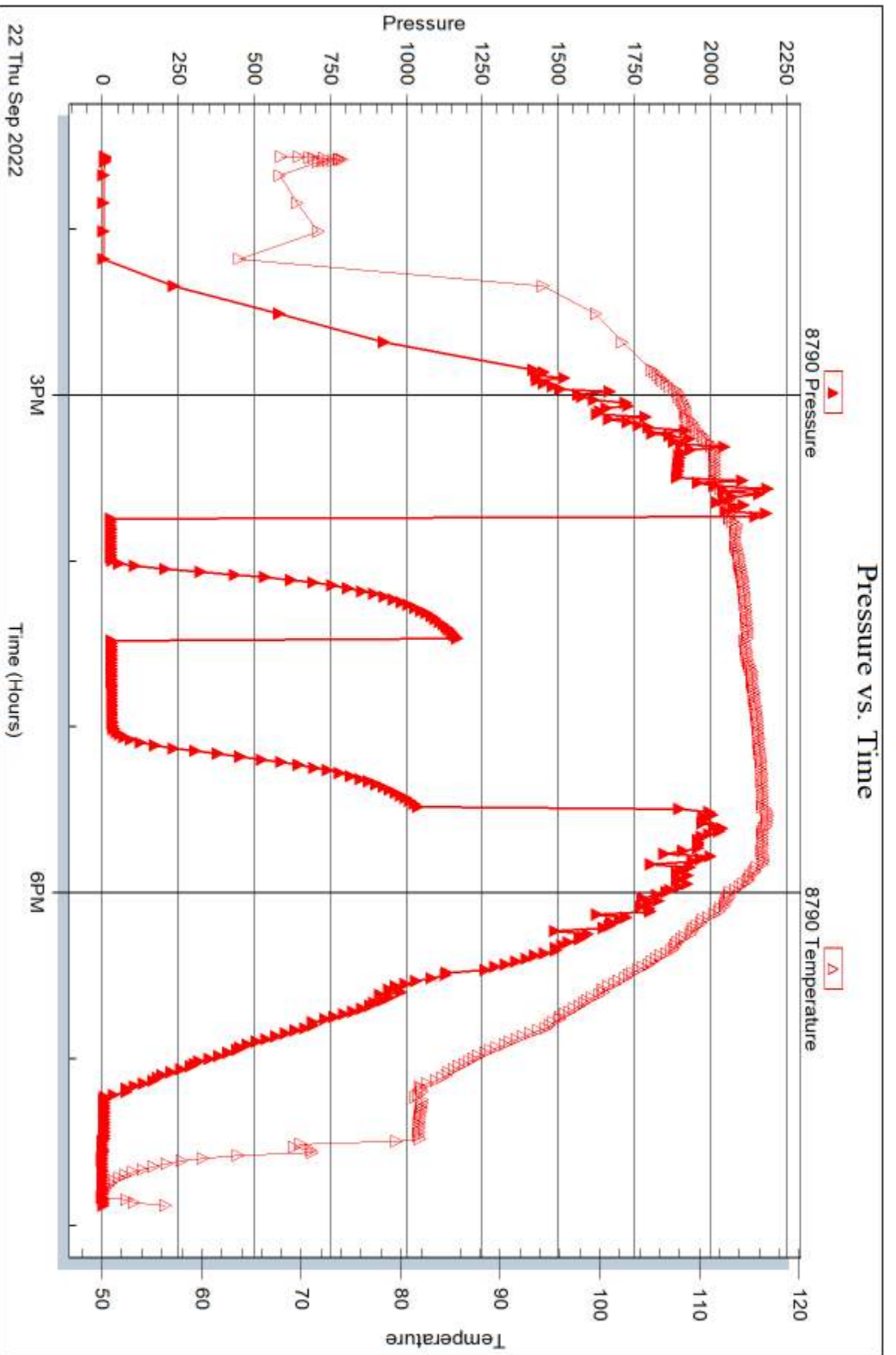
Serial #: 8790

Inside

Shakespeare Oil Co

DoIm #1-27

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69142

Printed: 2022.09.26 @ 16:54:55



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

**Dohm #1-27**

**27-11s-31w Gove,KS**

Start Date: 2022.09.23 @ 14:40:27

End Date: 2022.09.23 @ 21:10:27

Job Ticket #: 69143                      DST #: 4

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

Printed: 2022.09.26 @ 16:53:04





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69143

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.09.23 @ 14:40:27

## GENERAL INFORMATION:

Formation: **Myrick**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:57

Time Test Ended: 21:10:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4405.00 ft (KB) To 4455.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 24.50 psig @ 4406.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.23

End Date:

2022.09.23

Last Calib.:

2022.09.23

Start Time: 14:40:32

End Time:

21:10:26

Time On Btm:

2022.09.23 @ 16:41:57

Time Off Btm:

2022.09.23 @ 18:28:57

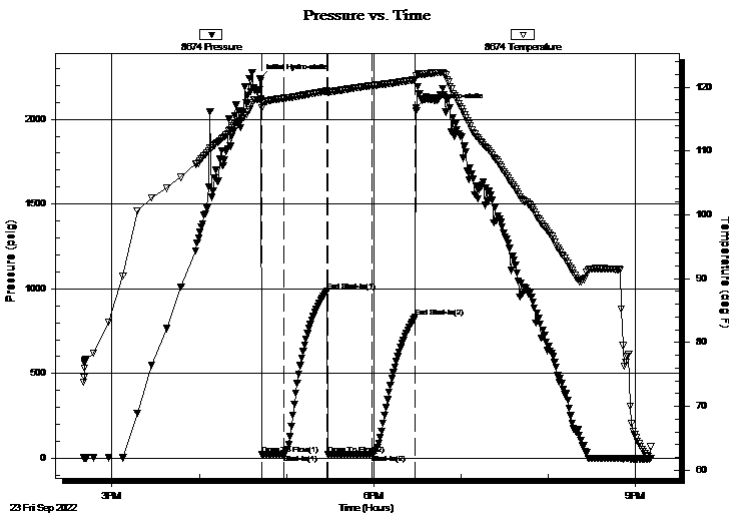
TEST COMMENT: IF: Surface blow built to 1/4"

IS: No return.

FF: No blow.

FS: No return. 15-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.78	118.08	Initial Hydro-static
1	22.13	116.72	Open To Flow (1)
16	23.39	118.25	Shut-In(1)
46	988.83	119.39	End Shut-In(1)
47	23.34	119.09	Open To Flow (2)
77	24.50	120.22	Shut-In(2)
107	832.55	121.15	End Shut-In(2)
107	2066.02	121.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69143

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.09.23 @ 14:40:27

### GENERAL INFORMATION:

Formation: **Myrick**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:57

Time Test Ended: 21:10:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4405.00 ft (KB) To 4455.00 ft (KB) (TVD)**

Reference Elevations: 2949.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8790**

**Inside**

Press@RunDepth: psig @ 4406.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.23 End Date: 2022.09.23

Last Calib.: 2022.09.23

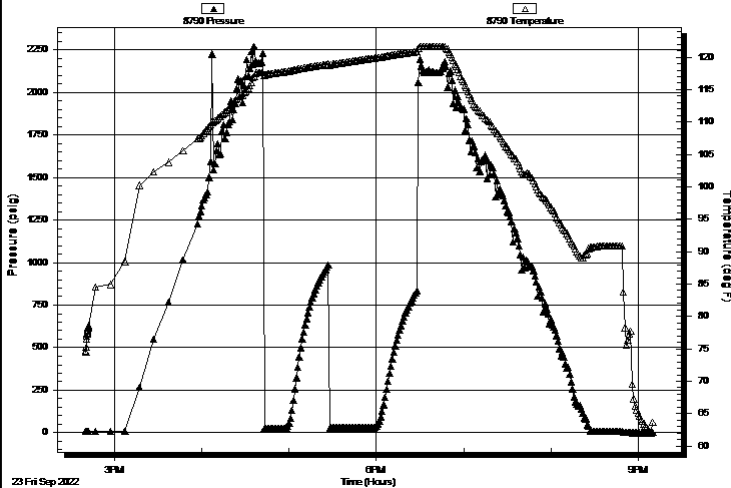
Start Time: 14:40:06 End Time: 21:10:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow built to 1/4"  
IS: No return.  
FF: No blow.  
FS: No return. 15-30-30-30

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.07

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69143

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.09.23 @ 14:40:27

## Tool Information

Drill Pipe:	Length: 4406.00 ft	Diameter: 3.80 inches	Volume: 61.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4405.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Stubb	1.00		Fluid	4377.00		
Shut In Tool	5.00			4382.00		
Hydraulic tool	5.00			4387.00		
Jars	5.00			4392.00		
EM Tool	2.00			4394.00		
Safety Joint	2.00			4396.00		
Packer	5.00			4401.00	29.00	Bottom Of Top Packer
Packer	4.00			4405.00		
Stubb	1.00			4406.00		
Recorder	0.00	8790	Inside	4406.00		
Recorder	0.00	8674	Outside	4406.00		
Perforations	12.00			4418.00		
Change Over Sub	1.00			4419.00		
Drill Collar	32.00			4451.00		
Change Over Sub	1.00			4452.00		
Bullnose	3.00			4455.00	50.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>79.00</b>					



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co

**27-11s-31w Gove,KS**

202 W Main St  
Salem IL 62881

**Dohm #1-27**

Job Ticket: 69143

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.09.23 @ 14:40:27

### 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:

bbl

Water Loss: 8.78 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 100%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

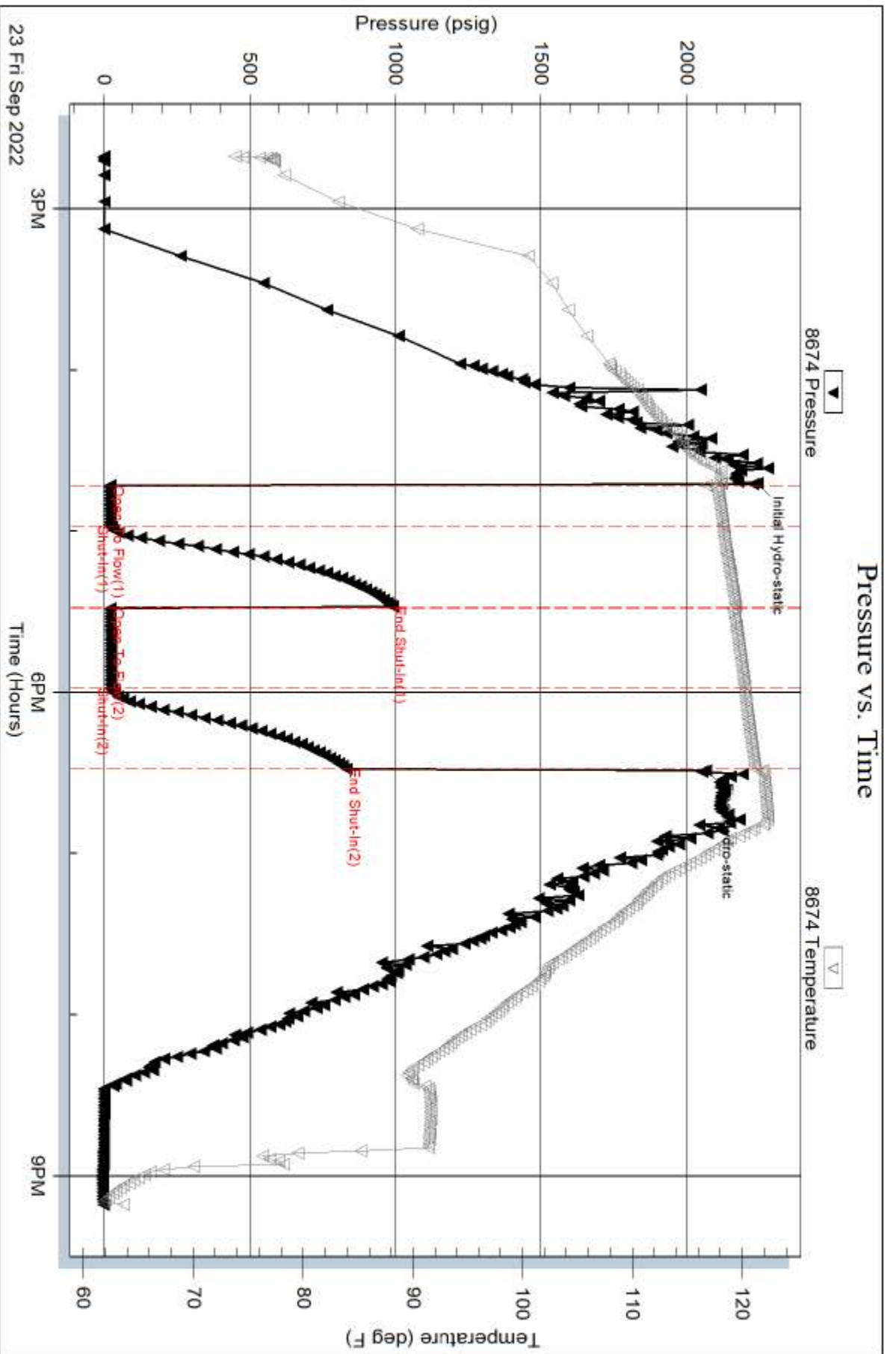
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



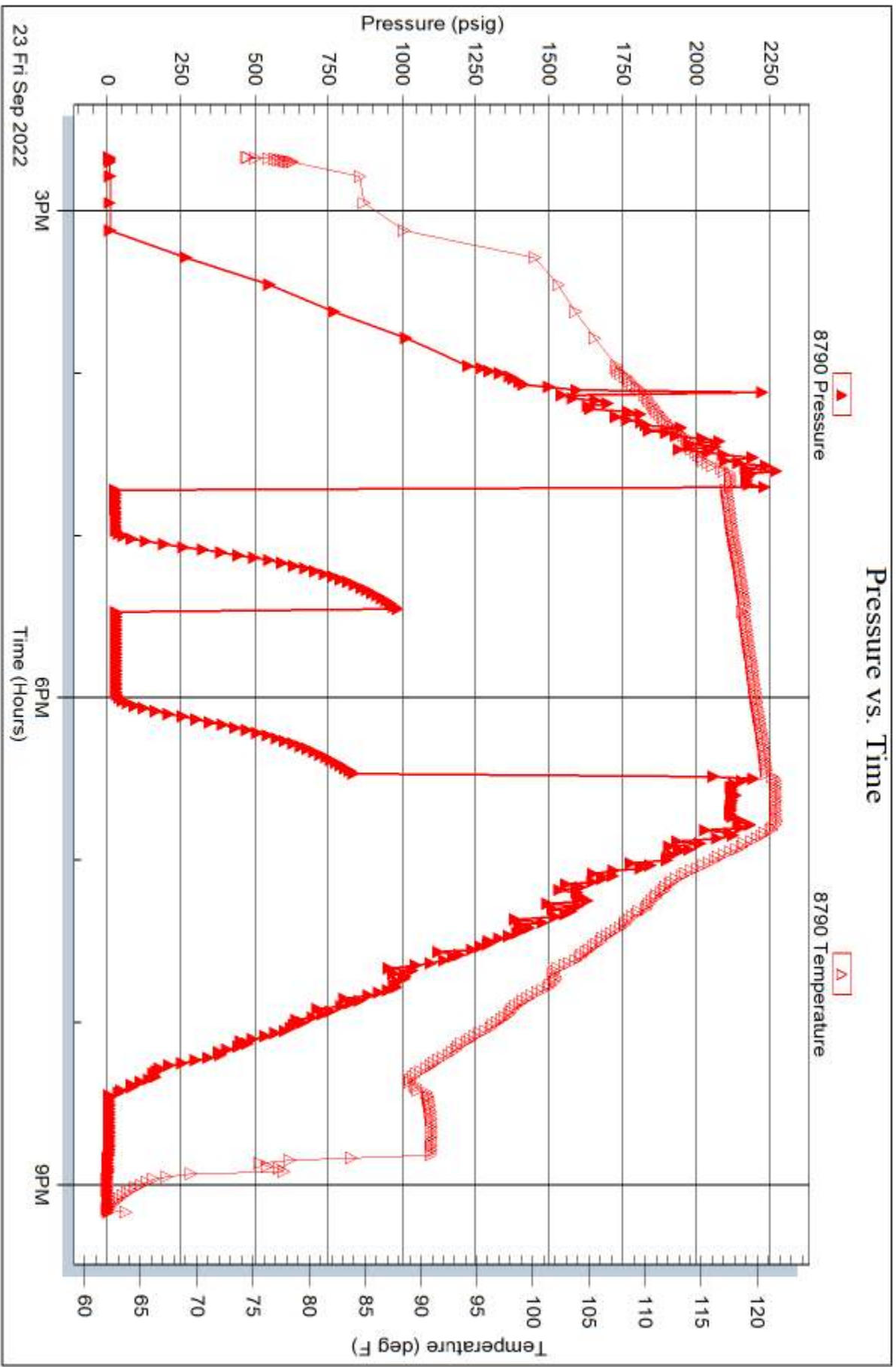
Serial #: 8790

Inside

Shakespeare Oil Co

DoIm #1-27

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69140

Well Name & No. Dohm 1-27 Test No. 1 Date 9-20-22  
 Company Shakespeare Oil Co Inc Elevation 2949 KB 2939 GL  
 Address 202 W Main St 591em #L 62881  
 Co. Rep / Geo. Vern Schrag Rig Duke 4  
 Location: Sec. 27 Twp 113 Rge. 31W Co. Gove State KS

Interval Tested 4115 4145 Zone Tested H  
 Anchor Length 30 Drill Pipe Run 4099 Mud Wt. 9.0  
 Top Packer Depth 4110 Drill Collars Run — Vls 55  
 Bottom Packer Depth 4115 Wt. Pipe Run — WL 7.2  
 Total Depth 4145 Chlorides 1200 ppm System LCM 3  
 Blow Description ±F: 1/4 blow built to 1"  
±S: No return  
FF: 1/2 blow built to 3 1/2"  
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>ocm</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2085</u>	<input checked="" type="checkbox"/> Test 1950	T-On Location <u>17:00</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>20:03</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>22:49</u>
(D) Initial Shut-In <u>1190</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:34</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:30</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>120 -</u> 180	Comments
(G) Final Shut-In <u>958</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2012</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>-350</u>
	<input type="checkbox"/> Accessibility	Total <u>2080</u>
	Sub Total <u>2430</u>	MP/DST Disc't

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69141

Well Name & No. Dohm 1-27 Test No. 2 Date 9-21-22  
 Company Shakespeare oil Elevation 2949 KB 2939 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Vern Schroy Rig Duke 4  
 Location: Sec. 27 Twp 11S Rge. 31W Co. Gove State KS

Interval Tested 4155 4200 Zone Tested I-J  
 Anchor Length \_\_\_\_\_ 45 Drill Pipe Run 4156 Mud Wt. 9.0  
 Top Packer Depth \_\_\_\_\_ 4150 Drill Collars Run \_\_\_\_\_ Vls 55  
 Bottom Packer Depth \_\_\_\_\_ 4155 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth \_\_\_\_\_ 4200 Chlorides 1200 ppm System LCM 3

Blow Description IF: Surface blow built to 3/4,  
IS: No return.  
FF: Surface blow built to 1/4,  
FS: No return.

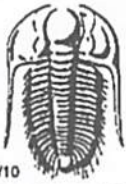
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 117 Gravity 1950 API RW 180 @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2097  Test \_\_\_\_\_ T-On Location 12:45  
 (B) First Initial Flow 22  Jars 300 T-Started 13:08  
 (C) First Final Flow 26  Safety Joint \_\_\_\_\_ T-Open 14:45  
 (D) Initial Shut-In 1235  Circ Sub NIL T-Pulled 16:30  
 (E) Second Initial Flow 26  Hourly Standby \_\_\_\_\_ T-Out 20:12  
 (F) Second Final Flow 30  Mileage 120 - 180 Comments \_\_\_\_\_  
 (G) Final Shut-In 1122  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1965  Straddle \_\_\_\_\_  EM Tool -350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total -350  
 Accessibility \_\_\_\_\_ Total 2080  
 Sub Total 2430 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69142

Well Name & No. Dohm 1-27 Test No. 3 Date 9-22-22  
 Company Shakespeare oil Elevation 2949 KB 2939 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Vern Schrag Rig Duke 4  
 Location: Sec. 27 Twp 11S Rge. 31W Co. Gove State KS

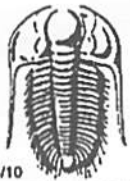
Interval Tested 4206 4270 Zone Tested K-L  
 Anchor Length \_\_\_\_\_ 64 Drill Pipe Run 4192 Mud Wt. 9.4  
 Top Packer Depth \_\_\_\_\_ 4201 Drill Collars Run \_\_\_\_\_ Vis 55  
 Bottom Packer Depth \_\_\_\_\_ 4206 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth \_\_\_\_\_ 4270 Chlorides 3000 ppm System LCM 2  
 Blow Description IF: 1/2 blow built to 3/4.  
IS: No return.  
FF: Surface blow built to 3/4.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud oil spots</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 20 BHT 117 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2186</u>	<input checked="" type="checkbox"/> Test 1950	T-On Location <u>13:00</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>13:33</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>15:43</u>
(D) Initial Shut-In <u>1172</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>17:28</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out _____
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>120</u> 180	Comments _____
(G) Final Shut-In <u>1037</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2015</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2430</u>
	Sub Total <u>2430</u>	MP/DST Disc't _____

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69143

Well Name & No. Dohm 1-27 Test No. 4 Date 9-23-22  
 Company Shakespeare Oil Elevation 2949 KB 2939 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Vern Schrag Rig Duke 4  
 Location: Sec. 27 Twp 11S Rge. 31W Co. Gove State KS

Interval Tested 4405 4455 Zone Tested Myrick  
 Anchor Length 50 Drill Pipe Run 4406 Mud Wt. 9.2  
 Top Packer Depth 4400 Drill Collars Run — Vis 56  
 Bottom Packer Depth 4405 Wt. Pipe Run — WL 8.8  
 Total Depth 4455 Chlorides 2200 ppm System LCM 2

Blow Description IF: Surface blow built to 1/4.  
IS: No return.  
FF: No blow.  
FS: No return.

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 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2240</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>14:15</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>14:40</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>16:42</u>
(D) Initial Shut-In <u>988</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>18:27</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:05</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>120x2</u> 180+180	Comments <u>logged</u>
(G) Final Shut-In <u>832</u>	<input type="checkbox"/> Sampler	<u>9-25-22 1:00pm</u>
(H) Final Hydrostatic <u>2066</u>	<input type="checkbox"/> Straddle	

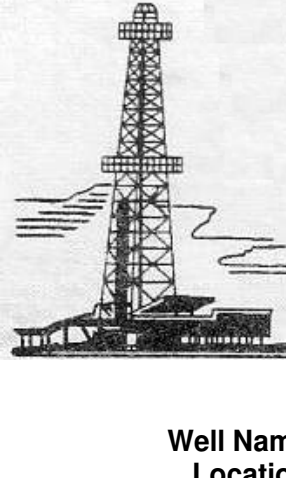
Initial Open 15  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

EM Tool -175  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 800 - 175  
 Total 3235  
 MP/DST Disc't \_\_\_\_\_

Sub Total 2610

Approved By \_\_\_\_\_ Our Representative [Signature]

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# WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG  
CONSULTANT GEOLOGIST



Scale 1:240 (5"=100') Imperial

Well Name: DOHM #1-27  
 Location: SE SE NW SW Sec. 27-11S-31W  
 Licence Number: API: 15-063-22415  
 Spud Date: September 16, 2022  
 Surface Coordinates: 1375' FSL & 1050' FWL

Region: Gove Co., KS  
 Drilling Completed: September 24, 2022

Bottom Hole Coordinates:  
 Ground Elevation (ft): 2939' K.B. Elevation (ft): 2950'  
 Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4620'  
 Formation: D&A, Mississippi  
 Type of Drilling Fluid: Chemical Premix (Displaced)  
 Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR:

Company: Shakespeare Oil Co., Inc.  
 Address: 202 West Main Street  
 Salem, IL 62881

### DRILLING CONTRACTOR:

Duke Drilling Co., Inc. Rig #4

DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8", 525.23'; Kelly 40.00', Tool Joint 5.5" ; Bit: 7-7/8", JZ-HA527, 3/14s; rpm 80, WOB 35k; Kelly Bushing 11' above ground level; Hector Torres (tool pusher).

### CASING:

8-5/8" at 225'

### CIRCULATION SYSTEM:

IDECO MM550, 6 X 15, duplex, 60 spm. Chemical premix, steel pits, MudCo/Service Mud, Inc., Tony Maestas, Reid Atkins.

### DRILL STEM TESTS:

Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

### OPEN HOLE LOGS:

DN(PE), DI (SP), ML, 5" detail LTD-3700; 2" DI to surface casing; ELI Wireline Services, Hays, KS, Jeff Leubbers.

LTD (4616') was four (4) feet short to RTD (4620').

ROP (min/ft) Five Ten	DST	Lithology	Geological Descriptions	Total Gas TG (units) Fifty One
0	15			0
START 10' SAMPLES 3750-3760				
START DIGITAL ROP				
CON			LS: lt brown; vf-xtal; finely oolitic in part; sli. fos-frag; chalky; poor apparent porosity; N.S. Shale: mostly grays; trc greenish siltst; poor rep at 3780.	Hot-Wire 100
CON			LS: mostly lt brown; vf-xtal; sli. granular; chalky; trc speckled gillsonitic stain?, very dull fluor; at best; tight intragrain porosity; N.S. Shale: gray, greenish in part; with some siltstone; 3800.	
CON			LS: lt brown; vf-xtal; finely oolitic in part; some soft white chalk; trc fine moldic porosity; N.S., 3810.	
CON			LS: white to lt brn; mic-vf xtal; much soft marly chalk; few if any grains; no apparent porosity; N.S., 3820, 3830. LS / Marl as above.	Hot-Wire 100
CON			LS: lt brown; vf-xtal; chalky; trc fine vug porosity; N.S.; 3840. Shale: black; carbonaceous; trace 3850, 3860. Shale: greenish-gray; silty; trace 3860. Siltst: greenish gray; much at 3870. Shale: greenish-gray & maroon, marly, 3880.	
CON			LS: lt brown; vf-xtal; rough textured in part; trc coarse sulfides; some scattered grains; poor apparent porosity; N.S. Shale: mostly green, some gray & maroon; sli. marly in part;	
CON			LS: lt brown; vf-xtal; finely oomoldic in part; sli fos-frag; rough textured; very dull fluor; trc spotted dry stain, weak streaming cut; 3910-20, 40 min.	
CON			LS: mostly lt brown; vf-xtal; finely oolitic & peletal in part; tight int ool porosity; N.S. LS: as above, trc sulfides;	
CON			LS: lt brown, grayish; vf-xtal; granular in part; poor apparent porosity at best; N.S. HEEBNER SH 3947 (-997) Shale: black; carbon.; fiss.; trc 3960, inc 3970. LS: gray-brn; peletal; N.S. Shale: greenish; trc marly; calc. LS: lt brown to grayish; vf-xtal; sli chalky; trc fos (fusulinids); trc chert; mostly dense; sli. chalky; N.S. Shale: maroon; marly; 3985-stop;	
CON			TORONTO 3974 (-1024) (corrected top) LS: lt brown; vf-xtal; trc spar; many chips drusy vug porosity; dull fluor; trc spotted light dry stain; cloudy cut; 3985-20 min	
CON			LANSING 3993 (-1043) (corrected top) LS: lt brown; vf-xtal; sub-vit; dense to sli chalky in part; no grains; no visible porosity; N.S. Shale: grays;	Hot-Wire 100
CON			LS: lt brown; vf-xtal; fine oolitic in part; scattered tight yuggy & int-cool por. & speckled wet stain, trc bright fluor; no visible oil; trc at 4030-20m, incr 1% at 40m;	
CON			LS: lt brown; mic-vf xtal; sub-vitrous; much white, opa. chert; no grains; no visible porosity; trc very tight shallow vug por w/spotted dry stains; may be float?, 4045-20, 40 min. LS: lt brown; vf-xtal; mostly dense; cherty in part; no visible porosity; N.S.	
CON			LS: lt brown; vf-xtal; trc lt brown spotted pin-pt stain; no visible oil; 4072 CFS. LS: lt brown; vf-xtal; mostly dense; chalky in part; opa. chert; poor apparent porosity; N.S., 4090. LS: md grayish-brn; vf-xtal; finely oolitic; chalky in part; trc tight int ool porosity; dull fluor; sli stain; 4100, trc stn 20 min, no stains at 40 min.	
CON			LS: lt brown; mic-vf xtal; dense to chalky in part; poor apparent porosity; N.S. LS: gray; vf-xtal; dense, blocky; no visible porosity; N.S., 4130. MUNCIE CREEK SH 4121 (-1171) Shale: black; carbonaceous; 4130-20 min. LS: md-dk brown; dense, platy; no grains; trc trans-chert; very tight fine vug porosity; sat dry stains; no live oil; trace 4130-40 min. LS: lt brown; vf-xtal; finely oolitic in part; poor to fair drusy vug & very tight int ool porosity; light dry stains; some barren porosity; 4145-20, 40 min.	MUD-CO: 4145: VIS 55, WT 9.0, FIL 7.2, CHL 1200, LCM 2K SH SHORT TRIP 15 STANDS BEFORE DST#1 DST#1: H-ZONE: 4115-4145: WEAK INCR BLOW 1" IFP, WEAK INCR BLOW 3.5" FFP; 15-30-30-30; 30' OCM (10%O, 90%AM); SIP: 1190-958; FP: 22-24, 22-28; HP: 2085-2012; BHT: 120 f.
CON			LS: off-white to lt brown; mic-vf xtal; smooth; no grains; no visible porosity; N.S. LS: dk brown; vf xtal; dense; N.S. Shale: grays; LS: lt brn to grayish-brn; vf-xtal; angular grains; v-tight stained int grain porosity; trc fine ool; crush few micro-drops one chip; trc 4180, incr 20 min, decr 40 micro; Shale: grays; LS: dolomitic, almost no acid residue, pure; f-xtal; fair int-xtal & drusy vug por.; spotted wet & dry stains; dull fluor; no visible oil; 1-2% 4200-20 min; decr 40 min.	MORNING DRILLER DID NOT DISENGAGE GEOGRAPH AT CONNECTION 4070 MORNING MUD-CO: 4223: VIS 55, WT 9.4, FIL 8.6, CHL 3K, LCM 2K DST#2: L, J-ZONE: 4155-4200: WEAK 3/4" BLOW IFP, WEAK 1/4" BLOW FFP; 15-30-30-30; 15-30-30-30; 5' IFP, WEAK INCR BLOW 3.5" FFP; 15-30-30-30; 20' OCM (10%O, 90%AM); SIP: 2097-1965; BHT: 117 f.
CON			LS: lt brown; mic-vf xtal; includes much gray, opa. chert; no grains; N.S., 4200-40 min. STARK SH 4208 (-1258) Shale: black; only few chips 4220. LS: dk brown; vf-xtal; granular; tight int grain por; bright even fluor; spdt to even dry stain; no visible oil; trace 4223-stop, 20 min. LS: lt brown; vf-xtal; tight int xtal & fine vuggy por; 10% bright even fluor in chalky parts; light brn spotted stains, trc 4223-40m, 4226-20m, incr to 1% at 4236-40min, no live oil. LS: white to lt brn; mic-vf xtal; dense to chalky in part; no grains; no visible porosity; N.S. HUSHPUCKNEY SH 4241 (-1291) Shale: black; fissile; few chips 4260; grains; dense; no apparent porosity; N.S. Shale: gray, maroon. LS: v-lt brown; vf-xtal; trc oolite; scattered fos-frag; dense to sli chalky; no apparent porosity; N.S. LS: v-lt brown; mic-vf xtal; dense; sli chalky; no apparent porosity; N.S.	REPAIR BRAKES BEFORE T.I.H. AFTER DST#2, DOWN ABOUT 4 HOURS. MORNING MUD-CO: 4223: VIS 55, WT 9.4, FIL 8.6, CHL 3K, LCM 2K DST#3: K, L-ZONE: 4206-4270: WEAK INCR BLOW 3/4" IFP, WEAK INCR BLOW 3/4" FFP; 15-30-30-30; 20' OCM (10%O, 90%AM); SIP: 23-24, 26-27; HP: 2186-2015; BHT: 117 f.
CON			Shale: green, maroon, mottled; silty and/or calc. in part; MARMATON 4297 (-1347) LS: lt brn; mic-vf xtal; dense; trc pin-pt, drusy vug with dk brn wet stain at 4320; Shale: dk gray; Shale: gray, brown; LS: lt brown; mic-vf xtal; dense to chalky in part; no apparent porosity; N.S. Shale: maroon, mottled; calcareous. LS: lt brown; vf-xtal; shaley; no apparent porosity; N.S. LS: lt brown; vf-xtal; trc oolite; poor apparent porosity; N.S. LS: lt brown; vf-xtal; cherty; poor apparent porosity; N.S. LS: as above, more shaley; N.S.	MUD-CO: 4349: VIS 56, WT 9.2, FIL 8.0, CHL 2700, LCM 2K 4480 SAMPLE WAS MISSED. MORNING
CON			PAWNEE LS 4390 (-1440) LS: lt brown to grayish brown; mic-vf xtal; mostly dense; few if any grains; no apparent porosity; N.S. LS: lt brown to dk grayish brown; vf-xtal; dense; no apparent porosity; N.S. LS: as above; Shale: black; fissile; many chips 4440. LS: grayish brown; vf-xtal; dense, platy; no apparent porosity; N.S. Shale: greenish gray; sli. silty; LS: very lt brown; mic-vf xtal; mostly dense; smooth; traces fine it colored vug por w/ lt stain; no live oil; even mineral fluor; 4455-40 min.	DRYLIGHT DST#4: L, PAWNEE, MYRICK: 4405-4455: WEAK BLOW 1/4" IFP, WEAK INCR BLOW 3.5" FFP; 15-30-30-30; 5' MUD; SIP: 988-832; FP: 22-23, 23-24; HP: 2240-2066; BHT: 121 f.
CON			Shale: black; fissile; carbonaceous; FT. SCOTT LS 4456 (-1506) LS: lt brown; mic-vf xtal; dense, angular to platy; micritic; includes minor cherts; no apparent porosity; N.S.; 4470. LS: as above. LS: lt-dk grayish brown; vf-xtal; dense; no apparent porosity; N.S. L. CHEROKEE SH 4487 (-1537) LS: lt brown to grayish-brn; mic-vf xtal; dense, platy; no apparent porosity; N.S. LS: as above but sli. oolitic in part; N.S. LS: lt - dk browns; vf-xtal; dense; sli. granular; no apparent porosity; N.S., with minor green to dk gray shales; LS: grayish brown; vf-xtal; dense, platy; no apparent porosity; N.S. LS: lt brown to gray; vf-xtal; mostly dense; trc fine sulfide; chalky in part; trc opa. chert; no apparent porosity; N.S. Shale: green; trace 4545-60 min; trace siltstone 4550. Cong: cherty, vari-color, oxidized; sli. pyritic; limey; green, gray sh; sli; N.S.; 4560-20 min MISSISSIPPI LIME 4563 (-1603) LS: lt brown; vf-xtal; finely oolitic in part; sli. chalky; glauconitic; no apparent porosity; N.S.; 4560-40 min.	MUD-CO: 4498: VIS 55, WT 9.3, FIL 8.0, CHL 2500, LCM 2K DRYLIGHT
CON			LS: lt brown; mic-vf xtal; oolitic in part; chalky; no apparent porosity; N.S. LS: as above but more chalky; traces pink to orange translucent chert; N.S., 4600. LS: lt brown; vf-xtal; chalky in part; includes lt gray to white semi-translucent chert; no apparent porosity; N.S.; 4620. Dol: grayish-brown; f-xtal; tight int xtal porosity; N.S.; 4620-30 min, 60 min.	DRYLIGHT MORNING Hot-Wire 100
CON			ROTARY TOTAL DEPTH 4620 (-1670)	Hot-Wire 100
RTD 4:47 pm 09/24/2022				ELI WIRELINE LTD 4616'