

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	OTTLEY 5-28
Doc ID	1669161

Tops

Name	Top	Datum
Andydrite	2104	+558
Heebner	3602	-940
Lansing	3639	-977
Muncie Creek	3799	-1137
Stark Shale	3892	-1230
Hushpuckney	3927	-1265
Pawnee	4095	-1433
Johnson	4220	-1558
Mississippian	4285	-1623





# SWIFT



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



## Invoice

DATE	INVOICE #
7/16/2022	35479

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

RECEIVED

JUL 22 2022

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5-28	Ottley	Logan	Southind Rig #8	Oil	Development	Surface	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	7.00	560.00
576D-S	Pump Charge - <u>Shallow Surface (&lt; 500 Ft.)</u>				1	Job	1,100.00	1,100.00
290	D-Air				2	Gallon(s)	42.00	84.00T
325	Standard Cement				175	Sacks	15.00	2,625.00T
278	Calcium Chloride				8	Sack(s)	40.00	320.00T
279	Bentonite Gel				7	Sack(s)	40.00	280.00T
581D	Service Charge Cement				175	Sacks	2.00	350.00
583D	Drayage				688	Ton Miles	1.00	688.00
	Subtotal							6,007.00
	Sales Tax Logan County						8.00%	264.72
<b>Total</b>								\$6,271.72

502-59

DW



TICKET 35479

CHARGE TO: *Shakespeare Oil Co Inc*  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

PAGE 1 OF 1

WELL PROJECT NO. *5-28* LEASE *Attley* COUNTY/PARISH *Logan* CITY \_\_\_\_\_ STATE *KS* OWNER \_\_\_\_\_  
 CONTRACTOR *Southern Drilling* RIG NAME/NO. *8* DELIVERED TO *Location*  
 WELL TYPE *Oil* WELL CATEGORY *Development* JOB PURPOSE *Surface* WELL PERMIT NO. \_\_\_\_\_  
 INVOICE INSTRUCTIONS \_\_\_\_\_ REFERRAL LOCATION \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.		UNIT PRICE		AMOU
		LOC	ACCT		DF	U/M	U/M	PRICE	
575	1			MILEAGE #114	80	mi	7	00	560.00
5763	1			Pump Charge - Shallow Surface	1	EA	1100	00	2100.00
290	1			D-Air	2	gal	42	00	84.00
325	1			Standard Cement	175	sks	15	00	2625.00
278	1			Calcium Chloride	9	sks	40	00	320.00
279	1			Bentonite Gel	7	sks	40	00	280.00
581	1			Service Charge Cement	175	sks	2	00	350.00
583	1			Drayage	688	TM	1	00	688.00
REMIT PAYMENT TO: <b>SWIFT SERVICES, INC.</b> P.O. BOX 466 NESS CITY, KS 67560 785-798-2300					SURVEY <input type="checkbox"/> OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? <input type="checkbox"/> WE UNDERSTOOD AND MET YOUR NEEDS? <input type="checkbox"/> OUR SERVICE WAS PERFORMED WITHOUT DELAY? <input type="checkbox"/> WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? <input type="checkbox"/> ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY</b> provisions.					DATE SIGNED _____ TIME SIGNED <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.				
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.					TAX <i>Hagan</i> TOTAL <i>6,007.00</i>				

DATE *07/16/22* ORDER NO. \_\_\_\_\_  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR *[Signature]* APPROVAL *[Signature]*  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 07/16/22 PAGE NO. 1

CUSTOMER Shakespeare Oil WELL NO. 5-28 LEASE Otley JOB TYPE Surface TICKET NO. 3547A

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0005							On location, Rig Circulating Set up trucks
	0100							Rig Running 8 5/8"
	0130							Start Circulation
	0140							Hook up to Swift
	0145	3	5					Start water ahead
		4						Start Cement
		4	42					Fin cement, Start Displacement
			47					Cement Circulating.
	0205		58				200	Fin Displacement, Shut Down Shut In
								Release Truck
								Washup
	0220							Rack up Job Complete

Thanks  
Jon, Preston, Isaac





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



# Invoice

DATE	INVOICE #
7/25/2022	34479

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

RECEIVED  
AUG 02 2022

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5-28	Ottley	Logan	Southind Rig #8	Oil	Development	4 1/2 Longstring	Preston
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	7.00	560.00
578D-L	Pump Charge - Long String				1	Job	1,600.00	1,600.00
419-4	4 1/2" Rotating Head Rental				1	Each	250.00	250.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
281	Mud Flush				500	Gallon(s)	2.00	1,000.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
325	Standard Cement				100	Sacks	15.00	1,500.00T
284	Calseal				5	Sack(s)	50.00	250.00T
283	Salt				500	Lb(s)	0.25	125.00T
286	Halad-1 (Halad 9)				100	Lb(s)	8.00	800.00T
277	Gilsonite (Coal Seal)				500	Lb(s)	1.25	625.00T
276	Flocele				25	Lb(s)	3.00	75.00T
325	Standard Cement				75	Sacks	15.00	1,125.00T
284	Calseal				4	Sack(s)	50.00	200.00T
283	Salt				400	Lb(s)	0.25	100.00T
286	Halad-1 (Halad 9)				50	Lb(s)	8.00	400.00T
581D	Service Charge Cement				175	Sacks	2.00	350.00
583D	Drayage				757	Ton Miles	1.00	757.00
	Subtotal							9,851.00
	Sales Tax Logan County						8.00%	526.72
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$10,377.72

502-59

DW



TICKET 34479

CHARGE TO: *Shakepear oil*  
 ADDRESS  
 CITY, STATE, ZIP CODE

PAGE 1 OF 2

WELL/PROJECT NO. *5-28* LEASE *Ottley* COUNTY/PARISH *Logan* STATE *KS* CITY  
 TICKET TYPE  SERVICE  SALES CONTRACTOR *Seathwind* RIG NAME/NO.  
 WELL TYPE *Oil* WELL CATEGORY *Development* JOB PURPOSE *long string* 4 1/2" DELIVERED TO *location* OWNER  
 INVOICE INSTRUCTIONS REFERRAL LOCATION *Well Location Ottley 5-28, Jayhawk, 1-W, KS*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1			80	mi			7.00	560.00
578		1			1	Job			1600.00	1600.00
919		1			1	ea		4 1/2"	250.00	250.00
290		1			2	gal			42.00	84.00
281		1			500	gal			2.00	1000.00
221		1			2	gal			25.00	50.00

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.

DATE SIGNED TIME SIGNED  A.M.  P.M.

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

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?  
 YES  NO  CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: *35-441.00*  
*63071.00*  
*9851.00*

TOTAL *10371.12*

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

SWIFT OPERATOR *Paula Chase* APPROVAL

Thank You!







# SWIFT



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



## Invoice

DATE	INVOICE #
8/10/2022	35546

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

- Acidizing
- Cement
- Tool Rental

RECEIVED  
AUG 15 2022

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5-28	Ottley	Logan	Wild West Well	Oil	Development	Port Collar	David E
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	7.00	630.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,600.00	1,600.00
290	D-Air				2	Gallon(s)	42.00	84.00T
330	Swift Multi-Density Standard (MIDCON II)				225	Sacks	19.50	4,387.50T
276	Flocele				50	Lb(s)	3.00	150.00T
581D	Service Charge Cement				300	Sacks	2.00	600.00
583D	Drayage				1,345	Ton Miles	1.00	1,345.00
	Subtotal							8,796.50
	Sales Tax Logan County						8.00%	369.72

502-59

**We Appreciate Your Business!**

**Total**

\$9,166.22

DW





CHARGE TO: Shakespeare Oil & Gas  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 35546

PAGE 1 OF

SERVICE LOCATIONS  
 1. Hayes ks WELL/PROJECT NO. S-28 LEASE Ottley COUNTY/PARISH Logan CITY \_\_\_\_\_ DATE 8-10-22 OWNER \_\_\_\_\_  
 2. Ness City ks CONTRACTOR Wild West RIG NAME/NO. \_\_\_\_\_ SHIPPED KS ORDER NO. \_\_\_\_\_  
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Port Collar DELIVERED TO LOCATION WELL LOCATION \_\_\_\_\_  
 4. REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOL
		LOC	ACCT							
575		1					90	mi.	7.00	630.00
576A		1					1	SA	1600.00	1600.00
290		1					2	bar	42.00	84.00
330		2					225		19.50	4387.50
276		2					50	lbs	3.00	150.00
581		2					300	SK	2.00	600.00
583		2					1345	TM	1.00	1345.00

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**

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

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

SURVEY \_\_\_\_\_  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO  
 WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO  
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 8796.50

TOTAL 9166.22

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

SWIFT OPERATOR Davin Egerton APPROVAL \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8-10-22 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Shakespeare		5-28		Ottley		Port Collar		35546	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	900								On location
									4 1/2 csg
									2 3/8 TBL
									2046 - Port collar
						1000			Test tools - Good
									Open port collar
		4				850			Take injection rate
		4.5	0			800			START CMT
		4.5	110			1200			Circ. CMT - 200 sx
		4.5	5			1100			Raise wgt for 25 sx
			115						End CMT -
		4.5	6.5						Disp
						1000			Close port collar
									Test - closed
									Run 5 sts
		3.5	20						Reverse out
	1030								JOB COMPLETE
									THANKS
									David, Seth, Isaac



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil, Inc**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

### **Ottley 5-28**

### **28 14s 32w Logan Ks**

Start Date: 2022.07.20 @ 13:04:00

End Date: 2022.07.20 @ 18:41:15

Job Ticket #: 68136                      DST #: 1

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

Printed: 2022.07.26 @ 22:23:24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68136

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.07.20 @ 13:04:00

## GENERAL INFORMATION:

Formation: **LKC- H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:08:00

Time Test Ended: 18:41:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 3800.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Reference Elevations: 2662.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

2652.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 18.06 psig @ 3801.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.20

End Date:

2022.07.20

Last Calib.:

2022.07.20

Start Time:

13:04:05

End Time:

18:41:14

Time On Btm:

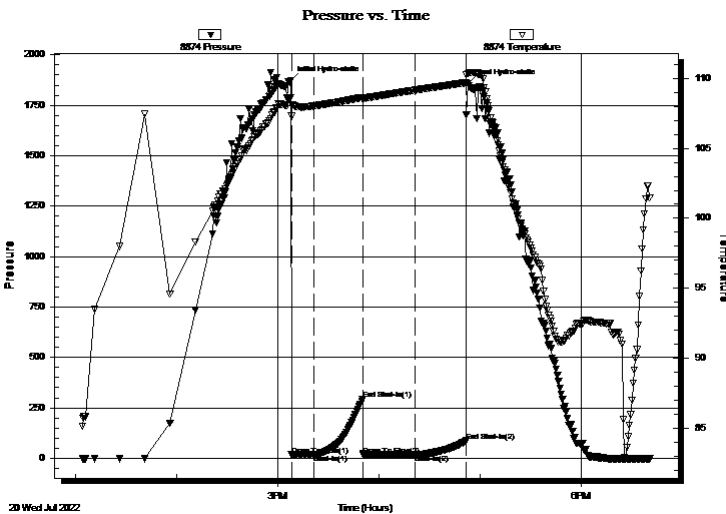
2022.07.20 @ 15:07:45

Time Off Btm:

2022.07.20 @ 16:52:45

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

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.18	108.61	Initial Hydro-static
1	17.47	107.30	Open To Flow (1)
14	19.15	108.02	Shut-In(1)
43	291.22	108.63	End Shut-In(1)
43	17.13	108.56	Open To Flow (2)
74	18.06	109.15	Shut-In(2)
104	86.05	109.68	End Shut-In(2)
105	1856.60	110.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (Oil Spots)	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68136

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.07.20 @ 13:04:00

## GENERAL INFORMATION:

Formation: **LKC- H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:08:00

Time Test Ended: 18:41:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 3800.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Reference Elevations: 2662.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

2652.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8319 Inside**

Press@RunDepth: psig @ 3801.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.20 End Date: 2022.07.20

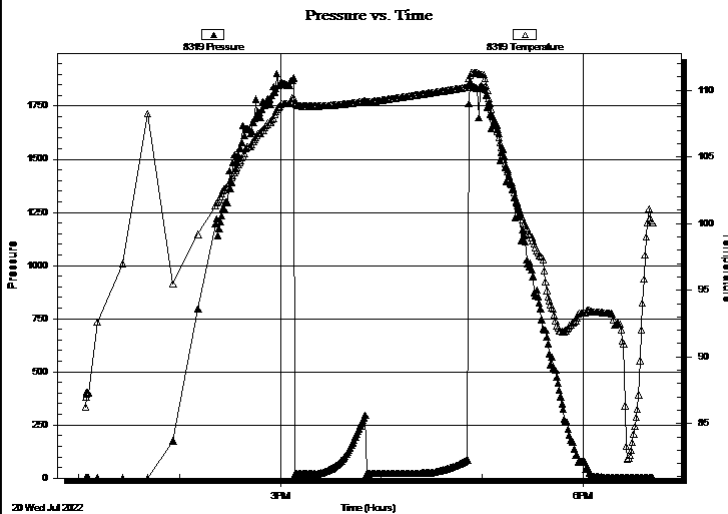
Last Calib.: 2022.07.20

Start Time: 13:04:05 End Time: 18:41:29

Time On Btm:

Time Off Btm:

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



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (Oil Spots)	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68136

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.07.20 @ 13:04:00

## Tool Information

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.80 inches	Volume: 53.02 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 53.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3800.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			3771.00	
Shut In Tool	5.00			3776.00	
Hydraulic tool	5.00			3781.00	
Jars	5.00			3786.00	
EM Tool	3.00			3789.00	
Safety Joint	2.00			3791.00	
Packer	5.00			3796.00	30.00 Bottom Of Top Packer
Packer	4.00			3800.00	
Stubb	1.00			3801.00	
Recorder	0.00	8319	Inside	3801.00	
Recorder	0.00	8874	Outside	3801.00	
Perforations	26.00			3827.00	
Bullnose	3.00			3830.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68136

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2022.07.20 @ 13:04:00

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (Oil Spots)	0.070

Total Length: 5.00 ft      Total Volume:                      bbl

Num Fluid Samples: 0

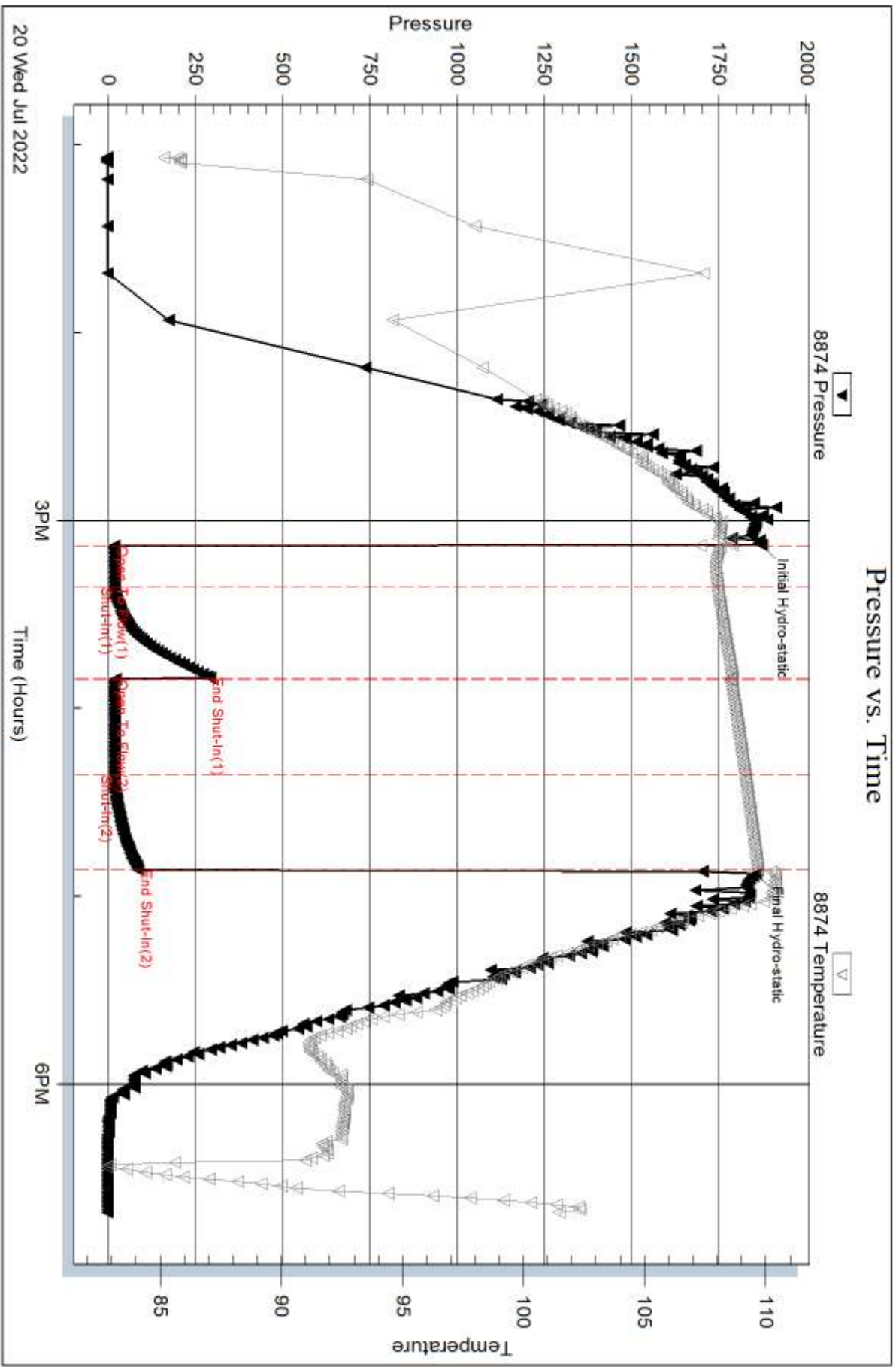
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





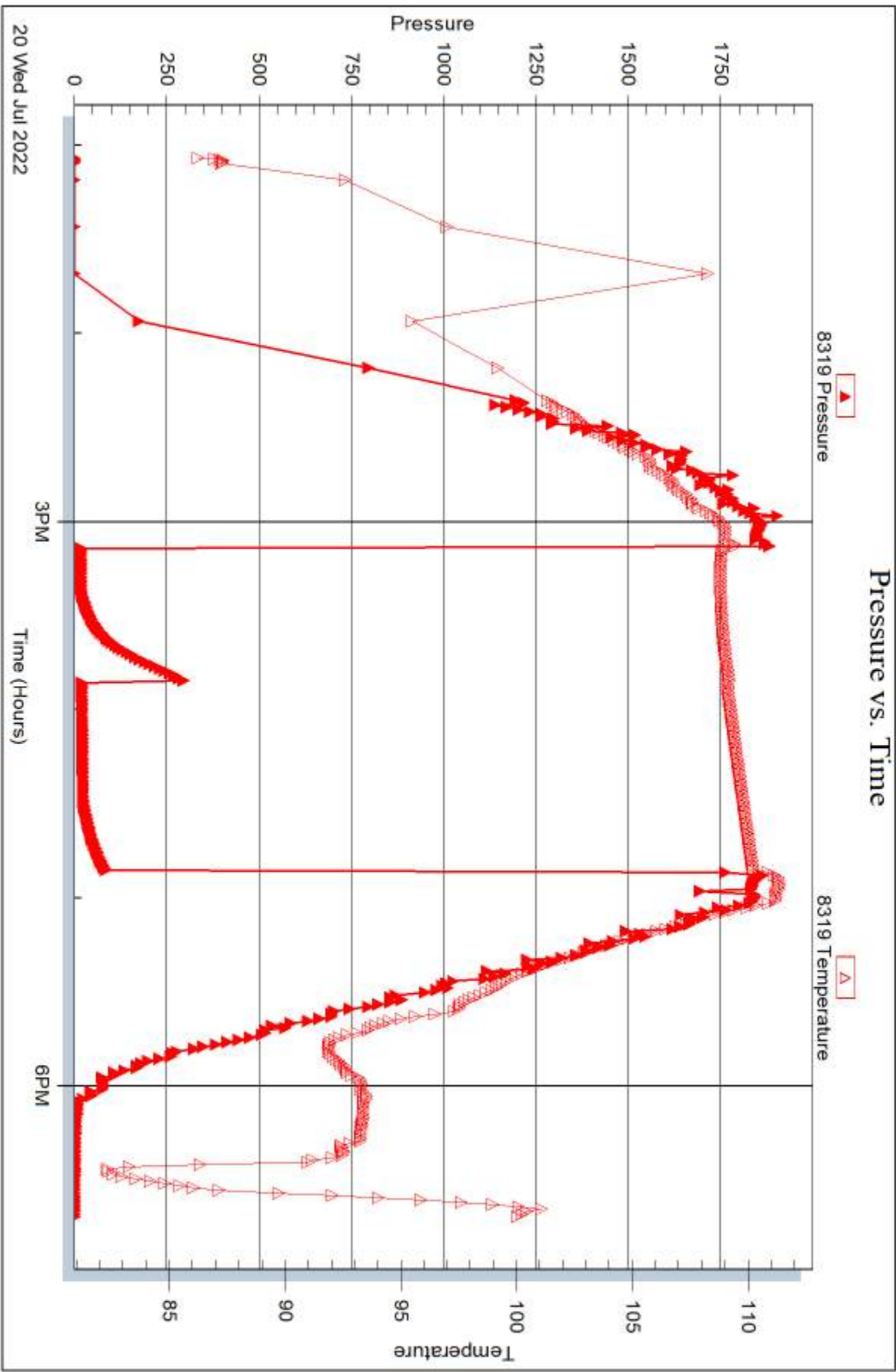
Serial #: 8319

Inside

Shakespeare Oil, Inc

Otley 5-28

DST Test Number: 1



20 Wed Jul 2022

Trilobite Testing, Inc

Ref. No: 68136

Printed: 2022.07.26 @ 22:23:25



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil, Inc**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

### **Ottley 5-28**

### **28 14s 32w Logan Ks**

Start Date: 2022.07.21 @ 08:10:00

End Date: 2022.07.21 @ 14:07:30

Job Ticket #: 61837                      DST #: 2

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

Printed: 2022.07.26 @ 22:22:40



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 61837

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.07.21 @ 08:10:00

## GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:57:15

Time Test Ended: 14:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3890.00 ft (KB) To 3902.00 ft (KB) (TVD)**

Reference Elevations: 2662.00 ft (KB)

Total Depth: 3902.00 ft (KB) (TVD)

2652.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 18.50 psig @ 3891.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.21

End Date:

2022.07.21

Last Calib.:

2022.07.21

Start Time: 08:14:05

End Time:

14:11:29

Time On Btm:

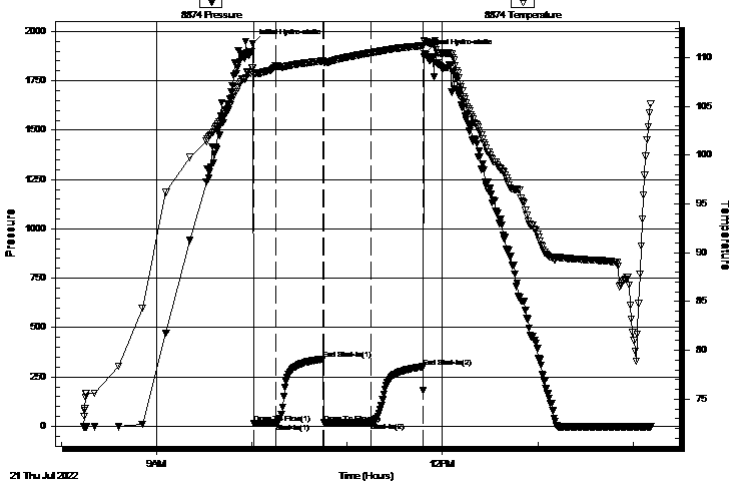
2022.07.21 @ 10:00:30

Time Off Btm:

2022.07.21 @ 11:48:45

**TEST COMMENT:** IF: 1/4" blow .  
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
0	1938.34	108.92	Initial Hydro-static
1	15.17	108.19	Open To Flow (1)
15	17.28	109.12	Shut-In(1)
45	340.61	109.65	End Shut-In(1)
45	17.70	109.54	Open To Flow (2)
75	18.50	110.49	Shut-In(2)
107	301.83	111.21	End Shut-In(2)
109	1887.89	111.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (Oil Spots)	0.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 61837

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.07.21 @ 08:10:00

## GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:57:15

Time Test Ended: 14:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3890.00 ft (KB) To 3902.00 ft (KB) (TVD)**

Total Depth: 3902.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2662.00 ft (KB)

2652.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8319** Inside

Press@RunDepth: psig @ 3891.00 ft (KB)

Start Date: 2022.07.21

End Date:

2022.07.21

Start Time: 08:14:05

End Time:

14:11:44

Capacity: 8000.00 psig

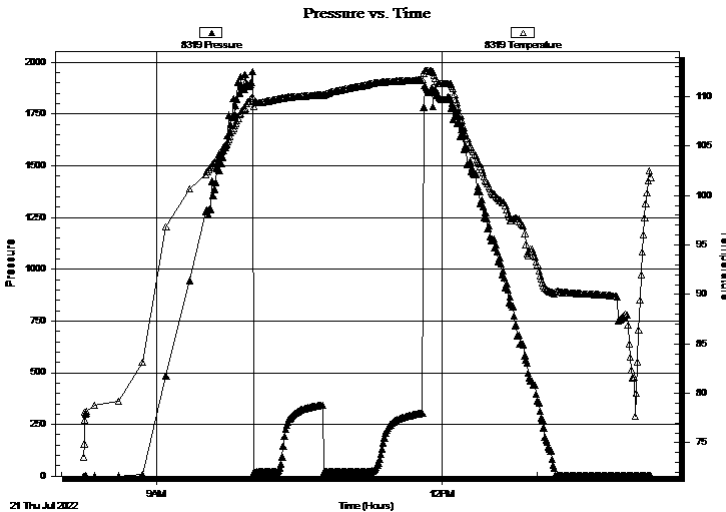
Last Calib.: 2022.07.21

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 1/4" blow .  
IS: No return.  
FF: No blow .  
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	Mud 100m (Oil Spots)	0.14

## 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, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 61837

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.07.21 @ 08:10:00

## Tool Information

Drill Pipe:	Length: 3876.00 ft	Diameter: 3.80 inches	Volume: 54.37 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3890.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3861.00	
Shut In Tool	5.00			3866.00	
Hydraulic tool	5.00			3871.00	
Jars	5.00			3876.00	
EM Tool	3.00			3879.00	
Safety Joint	2.00			3881.00	
Packer	5.00			3886.00	30.00 Bottom Of Top Packer
Packer	4.00			3890.00	
Stubb	1.00			3891.00	
Recorder	0.00	8319	Inside	3891.00	
Recorder	0.00	8874	Outside	3891.00	
Perforations	8.00			3899.00	
Bullnose	3.00			3902.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 61837

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2022.07.21 @ 08:10:00

### 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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m (Oil Spots)	0.140

Total Length: 10.00 ft      Total Volume:                      bbl

Num Fluid Samples: 0

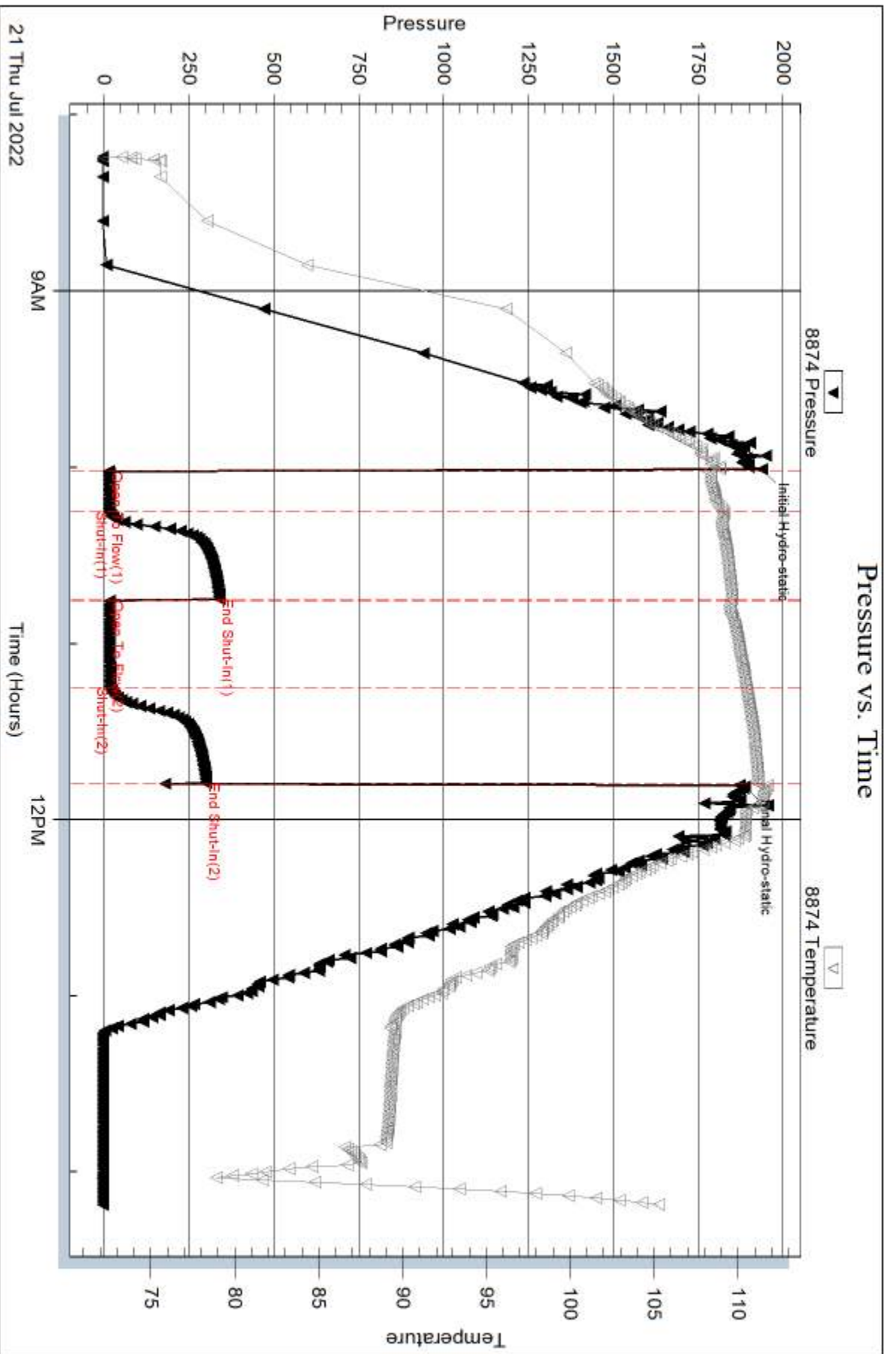
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



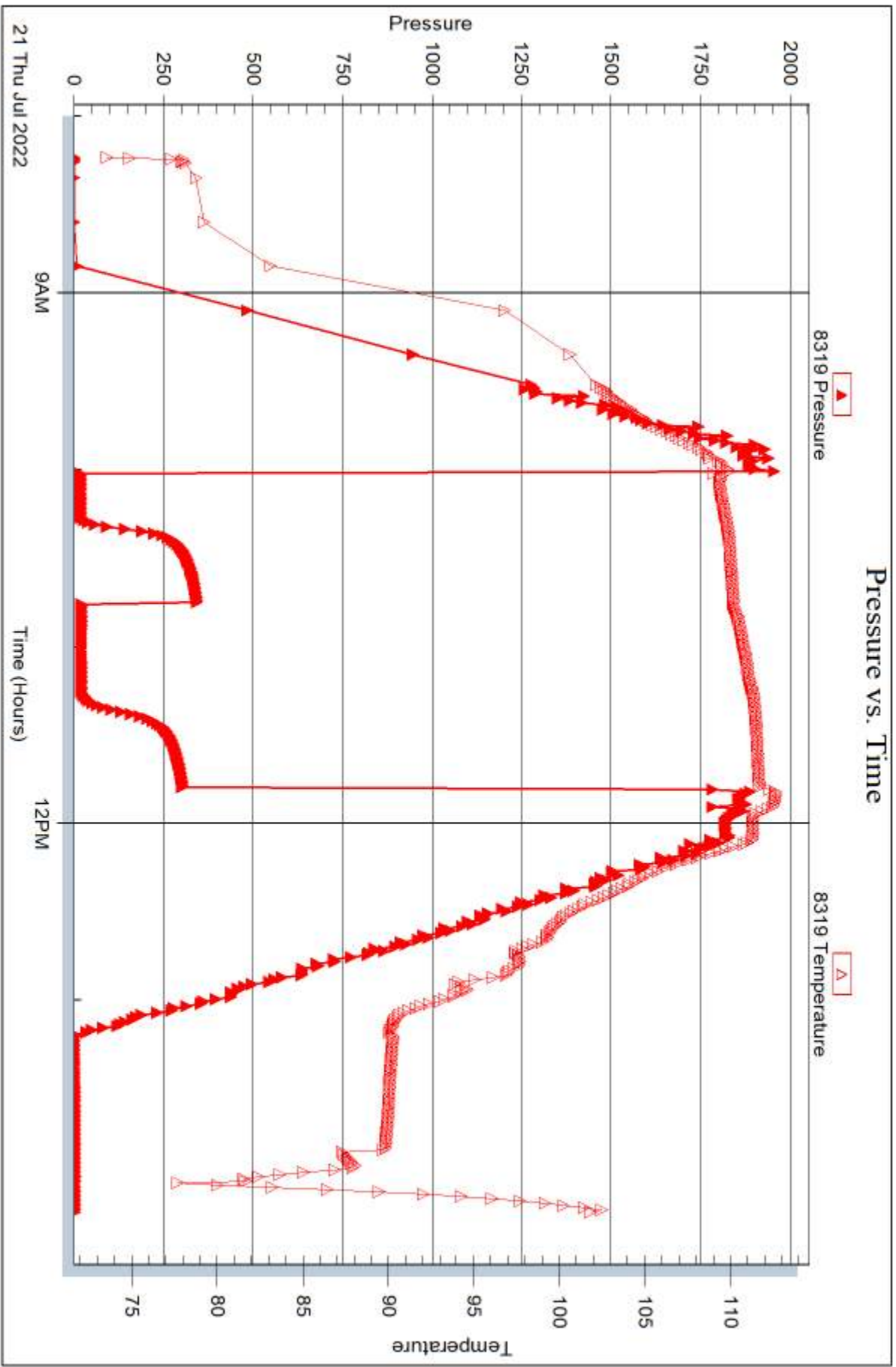
Serial #: 8319

Inside

Shakespeare Oil, Inc

Otley 5-28

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil, Inc**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

### **Ottley 5-28**

### **28 14s 32w Logan Ks**

Start Date: 2022.07.22 @ 10:02:00

End Date: 2022.07.22 @ 16:26:45

Job Ticket #: 68138                      DST #: 3

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

Printed: 2022.07.26 @ 18:28:01



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68138

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.07.22 @ 10:02:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:06:15

Time Test Ended: 16:26:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3980.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Total Depth: 4090.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2662.00 ft (KB)

2652.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 38.91 psig @ 3981.00 ft (KB)

Start Date: 2022.07.22

End Date: 2022.07.22

Start Time: 10:02:05

End Time: 16:26:44

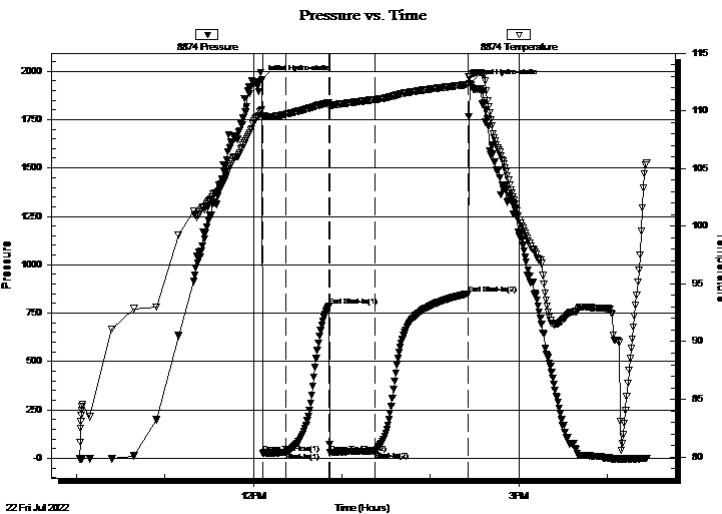
Capacity: 8000.00 psig

Last Calib.: 2022.07.22

Time On Btm: 2022.07.22 @ 12:05:45

Time Off Btm: 2022.07.22 @ 14:26:45

**TEST COMMENT:** IF: 5.4" blow.  
IS: No return.  
FF: BOB @ 12 min. 16.3".  
FS: 1.3" return. 15-30-30-60



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.11	110.07	Initial Hydro-static
1	26.19	109.51	Open To Flow (1)
17	31.44	109.69	Shut-In(1)
46	788.28	110.70	End Shut-In(1)
47	27.57	110.51	Open To Flow (2)
77	38.91	110.97	Shut-In(2)
140	850.46	112.27	End Shut-In(2)
141	1935.98	112.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	gmco 20g 40m 40o	0.70
0.00	130' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68138

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.07.22 @ 10:02:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:06:15

Time Test Ended: 16:26:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3980.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Reference Elevations: 2662.00 ft (KB)

Total Depth: 4090.00 ft (KB) (TVD)

2652.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8319**

**Inside**

Press@RunDepth: psig @ 3981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.22

End Date:

2022.07.22

Last Calib.:

2022.07.22

Start Time: 10:02:05

End Time:

16:26:59

Time On Btm:

Time Off Btm:

## TEST COMMENT:

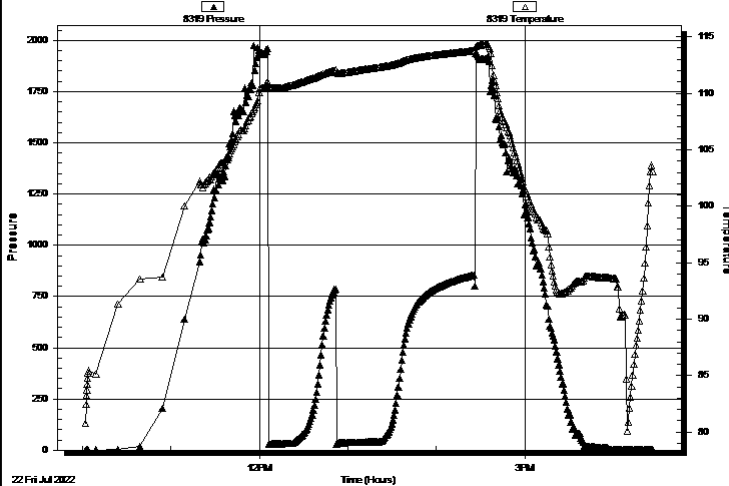
IF: 5.4" blow.

IS: No return.

FF: BOB @ 12 min. 16.3".

FS: 1.3" return. 15-30-30-60

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	gmco 20g 40m 40o	0.70
0.00	130' GIP	0.00

## 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, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68138

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.07.22 @ 10:02:00

## Tool Information

Drill Pipe:	Length: 3971.00 ft	Diameter: 3.80 inches	Volume: 55.70 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3980.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	140.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3951.00	
Shut In Tool	5.00			3956.00	
Hydraulic tool	5.00			3961.00	
Jars	5.00			3966.00	
EM Tool	3.00			3969.00	
Safety Joint	2.00			3971.00	
Packer	5.00			3976.00	30.00 Bottom Of Top Packer
Packer	4.00			3980.00	
Stubb	1.00			3981.00	
Recorder	0.00	8319	Inside	3981.00	
Recorder	0.00	8874	Outside	3981.00	
Perforations	9.00			3990.00	
Change Over Sub	1.00			3991.00	
Drill Pipe	95.00			4086.00	
Change Over Sub	1.00			4087.00	
Bullnose	3.00			4090.00	110.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>140.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68138

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2022.07.22 @ 10:02:00

### 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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
50.00	gmco 20g 40m 40o	0.701
0.00	130' GIP	0.000

Total Length: 50.00 ft      Total Volume: 0.701 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

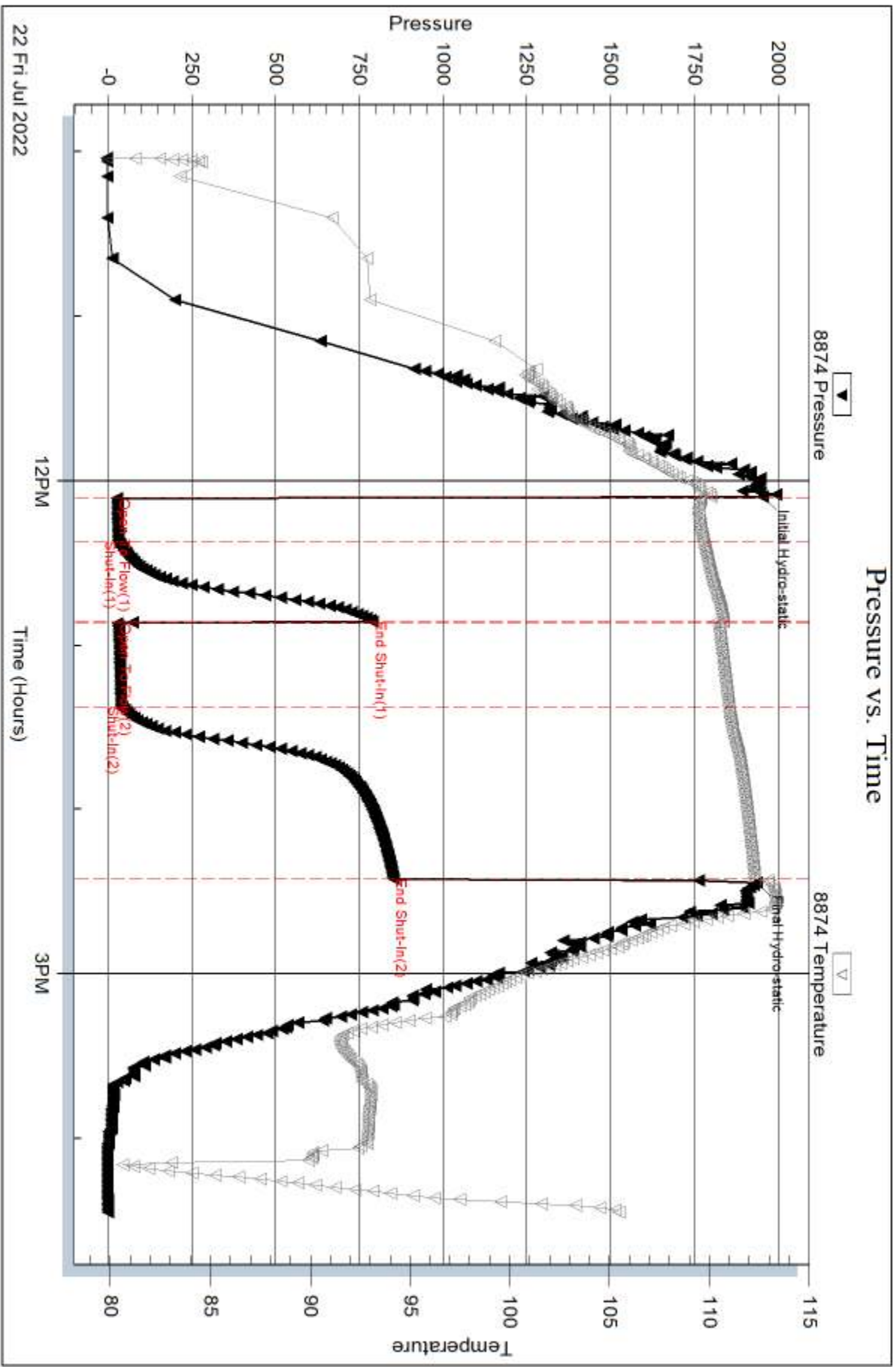
Recovery Comments:

Serial #: 8874

Outside Shakespeare Oil, Inc

Otley 5-28

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68138

Printed: 2022.07.26 @ 18:28:02

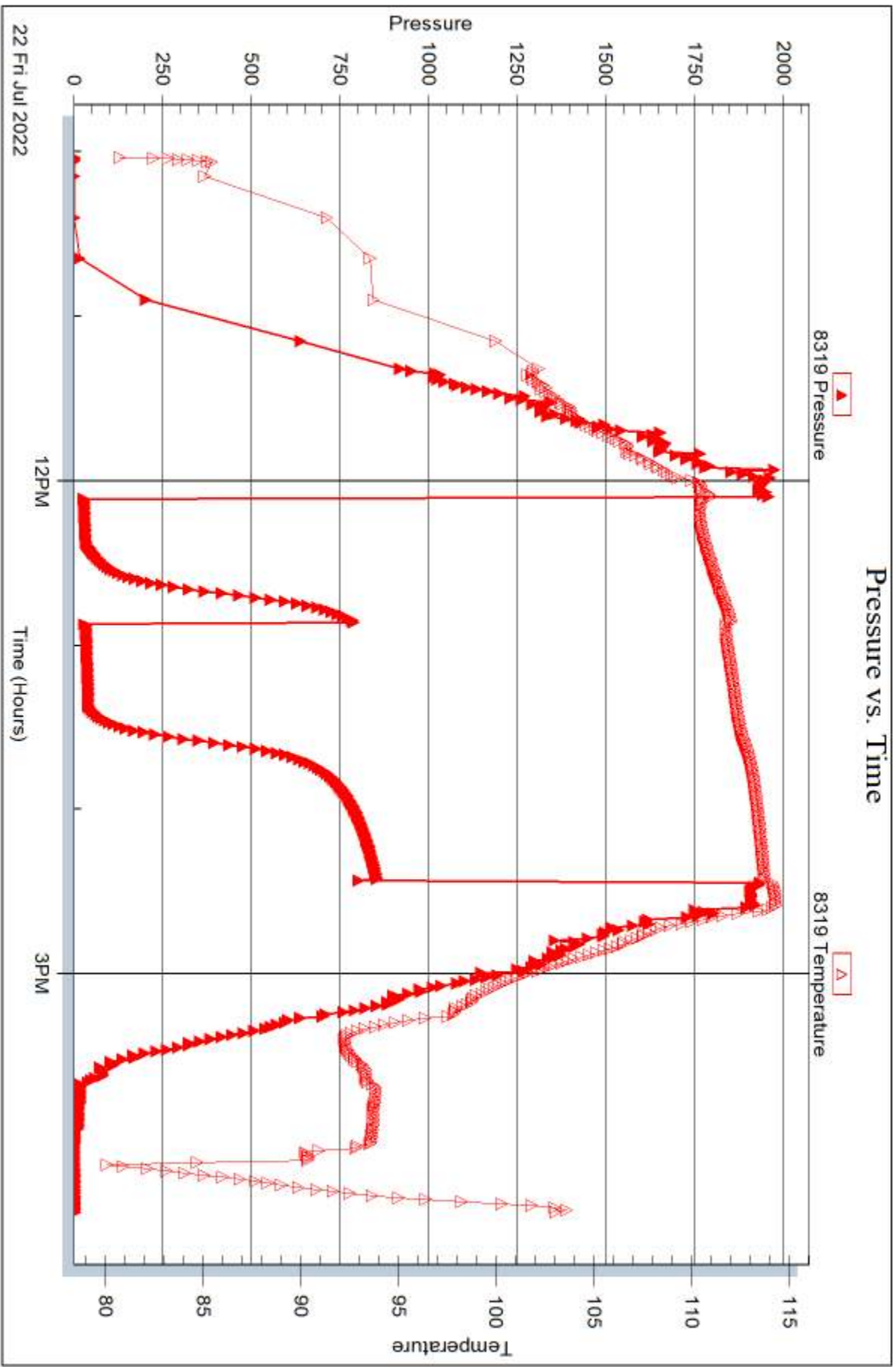
Serial #: 8319

Inside

Shakespeare Oil, Inc

Otley 5-28

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68138

Printed: 2022.07.26 @ 18:28:02



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil, Inc**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

**Ottley 5-28**

**28 14s 32w Logan Ks**

Start Date: 2022.07.23 @ 10:11:00

End Date: 2022.07.23 @ 16:27:45

Job Ticket #: 68139                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.26 @ 18:27:16





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68139

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.07.23 @ 10:11:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:30

Time Test Ended: 16:27:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4176.00 ft (KB) To 4250.00 ft (KB) (TVD)**

Reference Elevations: 2662.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

2652.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 19.12 psig @ 4177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.23

End Date: 2022.07.23

Last Calib.: 2022.07.23

Start Time: 10:11:05

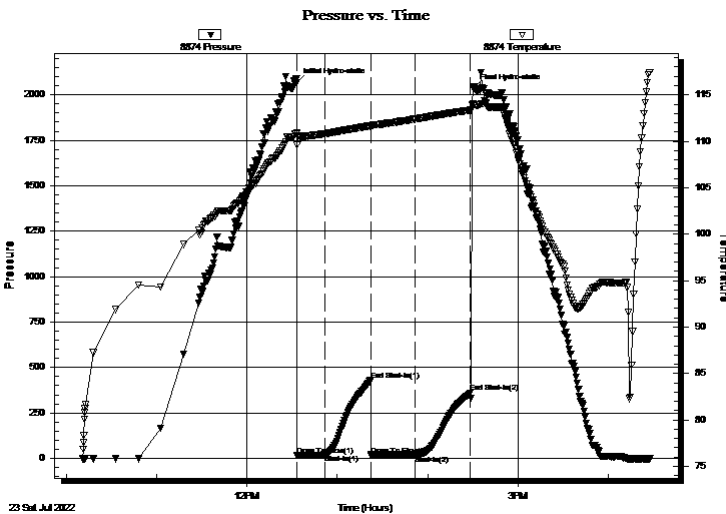
End Time: 16:27:44

Time On Btm: 2022.07.23 @ 12:33:15

Time Off Btm: 2022.07.23 @ 14:30:15

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

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.39	110.92	Initial Hydro-static
1	17.18	109.63	Open To Flow (1)
19	20.50	110.82	Shut-In(1)
49	429.12	111.69	End Shut-In(1)
50	18.59	111.45	Open To Flow (2)
79	19.12	112.42	Shut-In(2)
116	361.56	113.36	End Shut-In(2)
117	2037.02	114.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (Oil Spots)	0.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68139

**DST#: 4**

ATTN: Vern Schrag

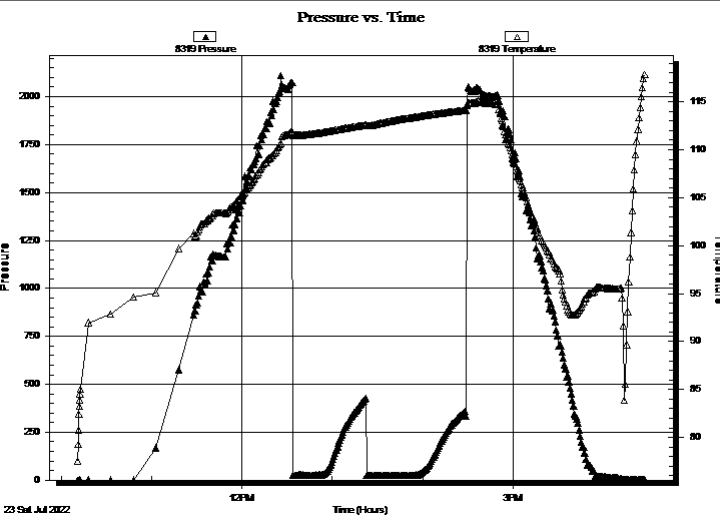
Test Start: 2022.07.23 @ 10:11:00

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:33:30  
 Time Test Ended: 16:27:45  
**Interval: 4176.00 ft (KB) To 4250.00 ft (KB) (TVD)**  
 Total Depth: 4250.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2662.00 ft (KB)  
 2652.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8319** Inside  
 Press@RunDepth: psig @ 4177.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.23 End Date: 2022.07.23 Last Calib.: 2022.07.23  
 Start Time: 10:11:05 End Time: 16:27:44 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow .  
 IS: No return.  
 FF: No blow .  
 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	Mud 100m (Oil Spots)	0.14

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, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68139

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.07.23 @ 10:11:00

## Tool Information

Drill Pipe:	Length: 4161.00 ft	Diameter: 3.80 inches	Volume: 58.37 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4176.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	104.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

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

Change Over Sub	1.00			4147.00	
Shut In Tool	5.00			4152.00	
Hydraulic tool	5.00			4157.00	
Jars	5.00			4162.00	
EM Tool	3.00			4165.00	
Safety Joint	2.00			4167.00	
Packer	5.00			4172.00	30.00 Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Recorder	0.00	8319	Inside	4177.00	
Recorder	0.00	8874	Outside	4177.00	
Perforations	5.00			4182.00	
Change Over Sub	1.00			4183.00	
Drill Pipe	63.00			4246.00	
Change Over Sub	1.00			4247.00	
Bullnose	3.00			4250.00	74.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>104.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68139

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2022.07.23 @ 10:11:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m (Oil Spots)	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

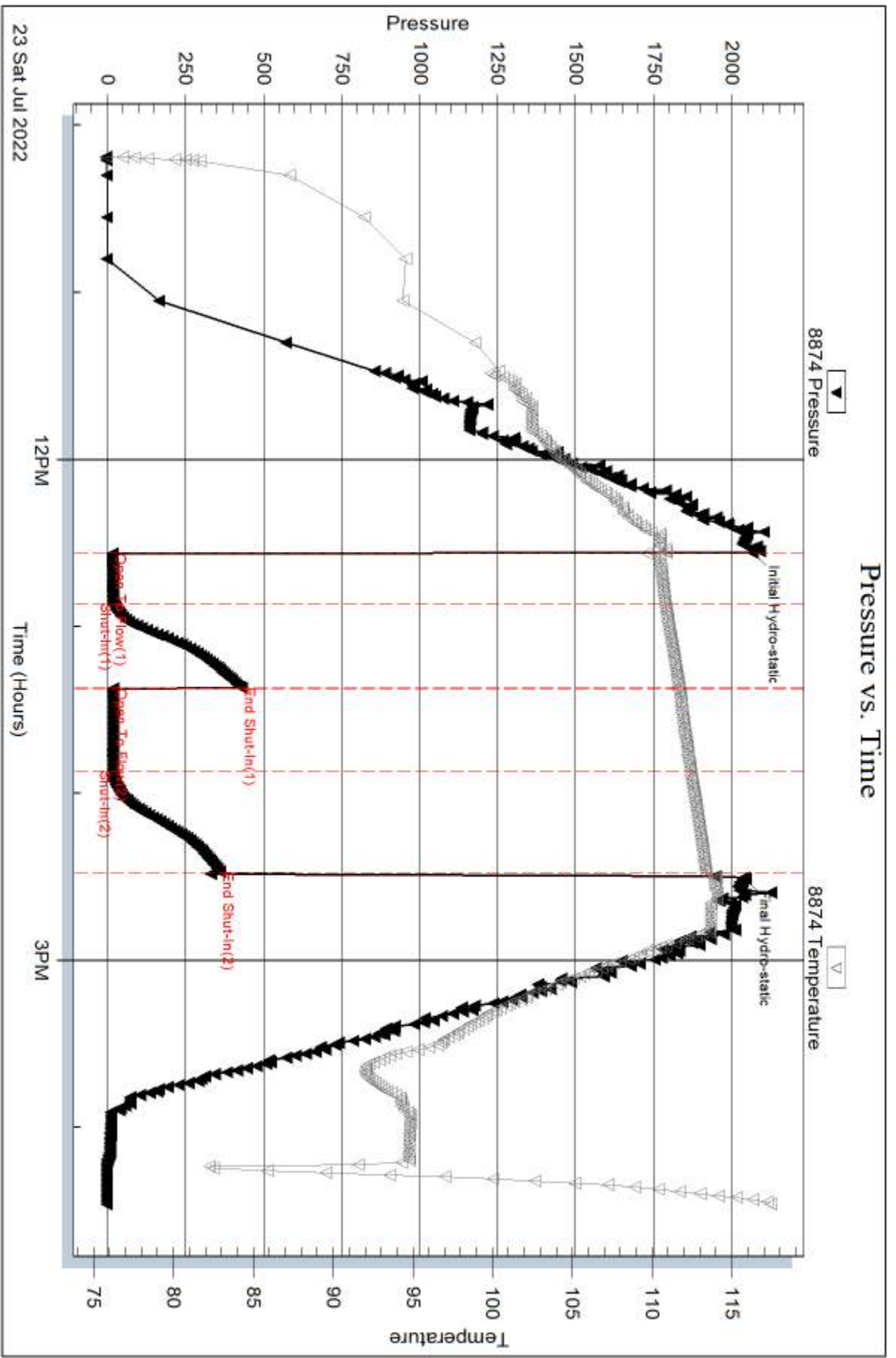
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



23 Sat Jul 2022

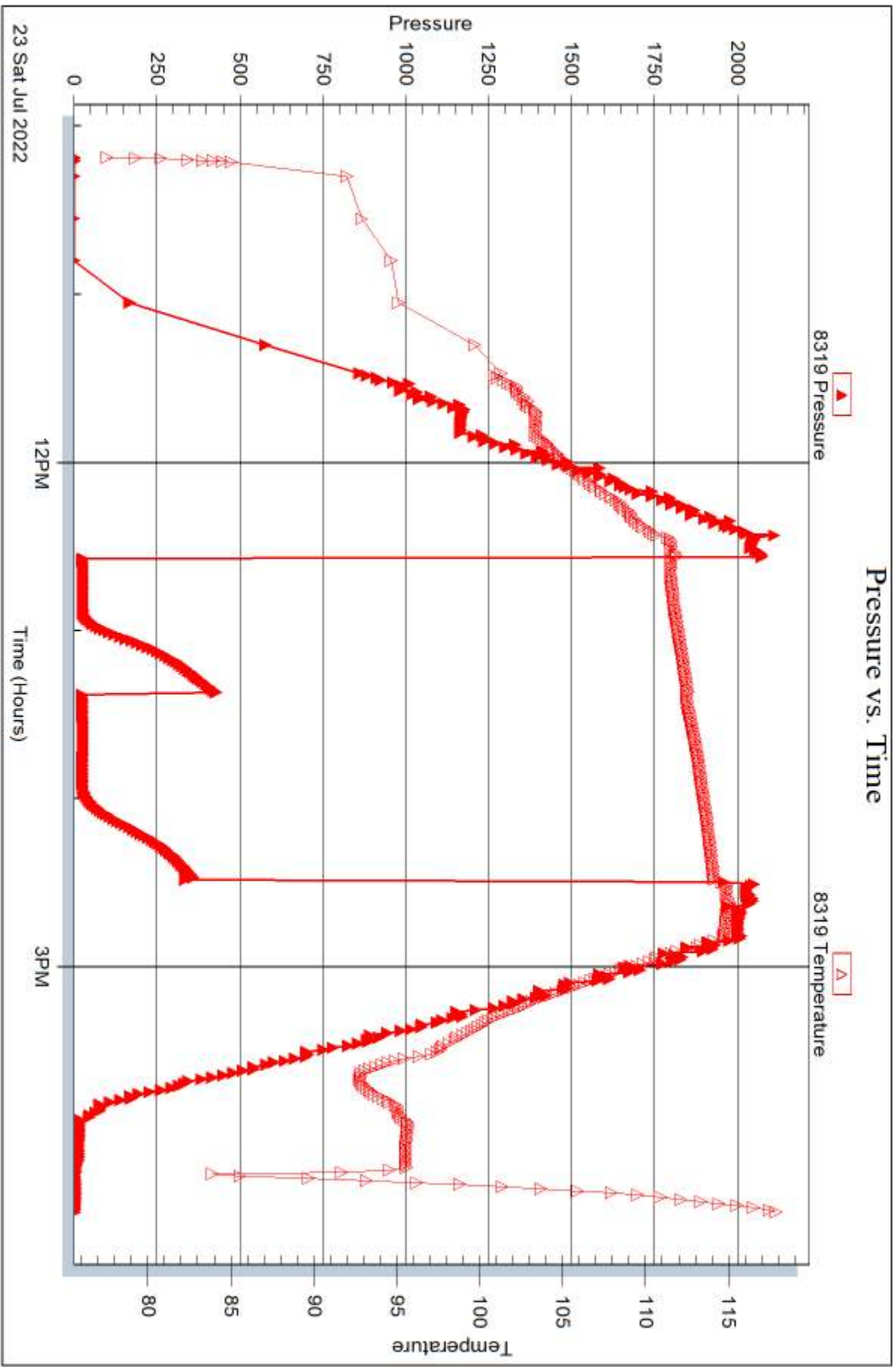
Serial #: 8319

Inside

Shakespeare Oil, Inc

Otley 5-28

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68139

Printed: 2022.07.26 @ 18:27:17



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil, Inc**

202 W Main St  
Salem IL 62881

ATTN: Vern Schrag

### **Ottley 5-28**

### **28 14s 32w Logan Ks**

Start Date: 2022.07.24 @ 06:37:00

End Date: 2022.07.24 @ 14:10:45

Job Ticket #: 68140                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.26 @ 18:25:51



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc  
 202 W Main St  
 Salem IL 62881  
 ATTN: Vern Schrag

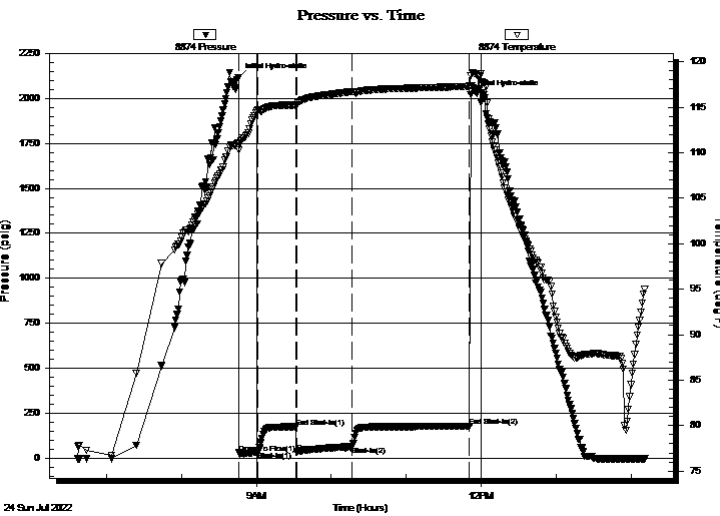
**28 14s 32w Logan Ks**  
**Ottley 5-28**  
 Job Ticket: 68140 **DST#: 5**  
 Test Start: 2022.07.24 @ 06:37:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:46:00  
 Time Test Ended: 14:10:45  
 Interval: **4248.00 ft (KB) To 4290.00 ft (KB) (TVD)**  
 Total Depth: 4290.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2662.00 ft (KB)  
 2652.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**  
 Press@RunDepth: 64.35 psig @ 4249.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.24 End Date: 2022.07.24 Last Calib.: 2022.07.24  
 Start Time: 06:37:05 End Time: 14:10:44 Time On Btm: 2022.07.24 @ 08:45:45  
 Time Off Btm: 2022.07.24 @ 11:51:30

**TEST COMMENT:** IF: BOB @ 8 min, 35"  
 IS: Surface return.  
 FF: BOB @ opening- 280"+  
 FS: Gas to surface durring bleed off, 1/4" return. 15-30-45-90



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.25	111.09	Initial Hydro-static
1	30.49	110.28	Open To Flow (1)
16	36.52	114.66	Shut-In(1)
46	174.97	115.25	End Shut-In(1)
47	33.08	115.18	Open To Flow (2)
91	64.35	116.73	Shut-In(2)
185	176.65	117.31	End Shut-In(2)
186	2020.27	118.48	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	gmco 20g 35m 45o	0.84
50.00	gocm 15g 15o 70m	0.70
0.00	Gas to surface	0.00

\* Recovery from multiple tests

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68140

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.07.24 @ 06:37:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:46:00

Time Test Ended: 14:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4248.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Reference Elevations: 2662.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2652.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8319 Inside**

Press@RunDepth: psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.24 End Date: 2022.07.24

Last Calib.: 2022.07.24

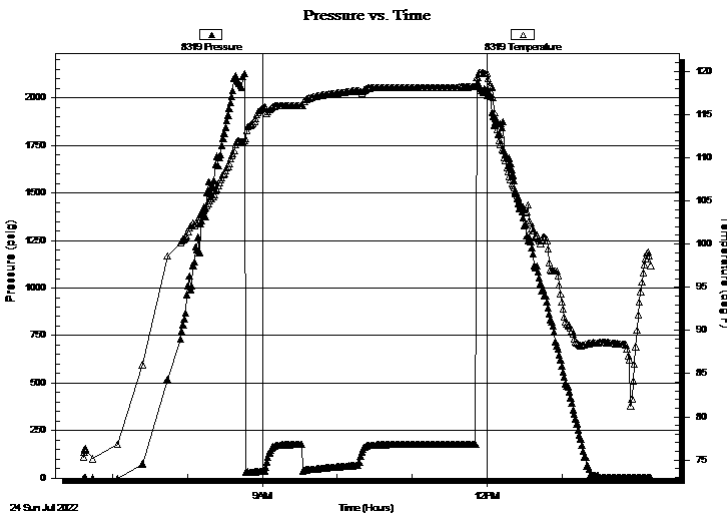
Start Time: 06:37:05 End Time: 14:10:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 8 min, 35"  
IS: Surface return.  
FF: BOB @ opening- 280"+  
FS: Gas to surface durring bleed off, 1/4" return. 15-30-45-90

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gmco 20g 35m 45o	0.84
50.00	gocm 15g 15o 70m	0.70
0.00	Gas to surface	0.00

## 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, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68140

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.07.24 @ 06:37:00

## Tool Information

Drill Pipe:	Length: 4226.00 ft	Diameter: 3.80 inches	Volume: 59.28 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4248.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Change Over Sub	1.00			4219.00	
Shut In Tool	5.00			4224.00	
Hydraulic tool	5.00			4229.00	
Jars	5.00			4234.00	
EM Tool	3.00			4237.00	
Safety Joint	2.00			4239.00	
Packer	5.00			4244.00	30.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8319	Inside	4249.00	
Recorder	0.00	8874	Outside	4249.00	
Perforations	5.00			4254.00	
Change Over Sub	1.00			4255.00	
Drill Pipe	31.00			4286.00	
Change Over Sub	1.00			4287.00	
Bullnose	3.00			4290.00	42.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>72.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil, Inc

**28 14s 32w Logan Ks**

202 W Main St  
Salem IL 62881

**Ottley 5-28**

Job Ticket: 68140

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2022.07.24 @ 06:37:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	gmco 20g 35m 45o	0.842
50.00	gocm 15g 15o 70m	0.701
0.00	Gas to surface	0.000

Total Length: 110.00 ft

Total Volume: 1.543 bbl

Num Fluid Samples: 0

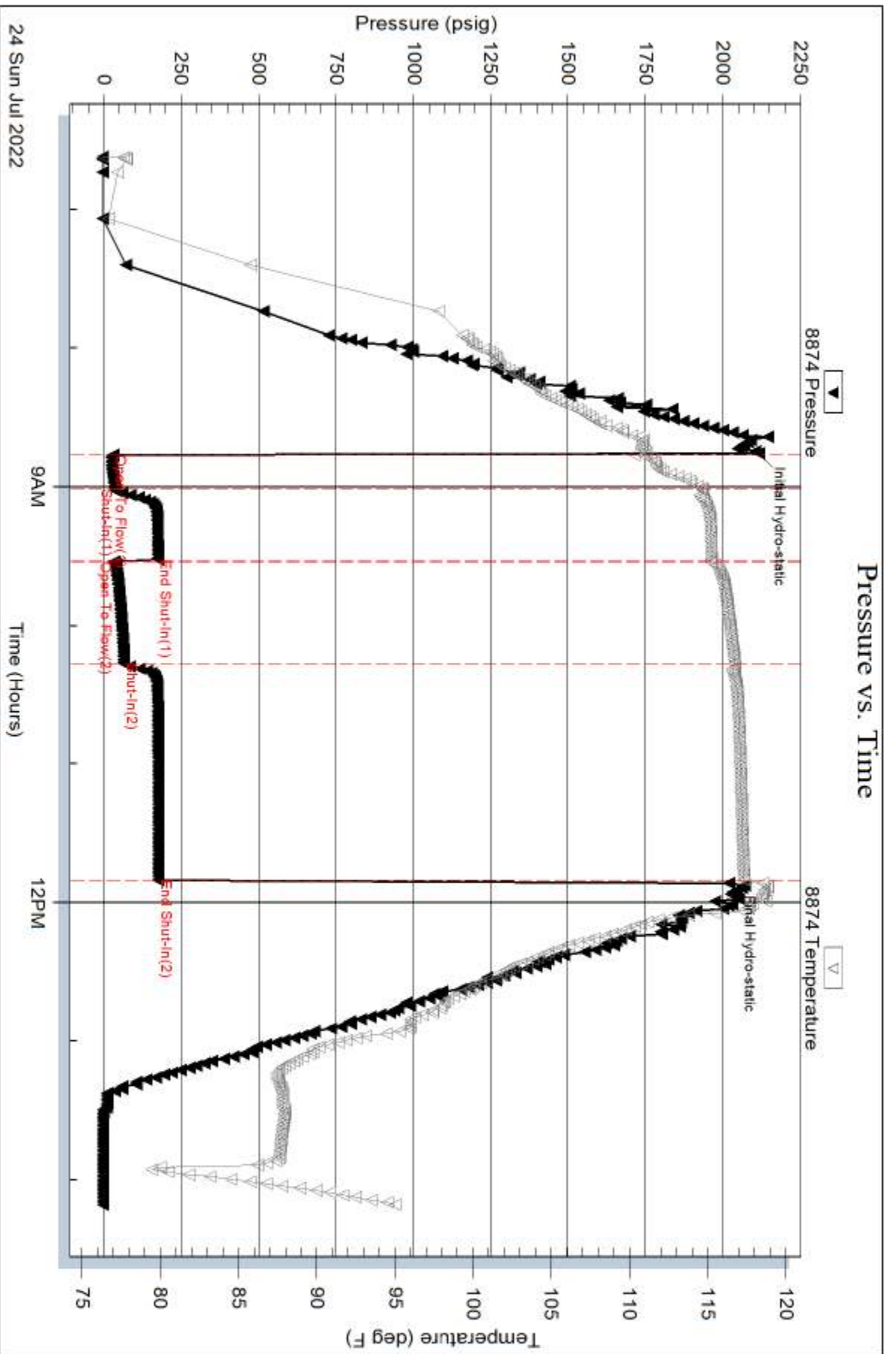
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



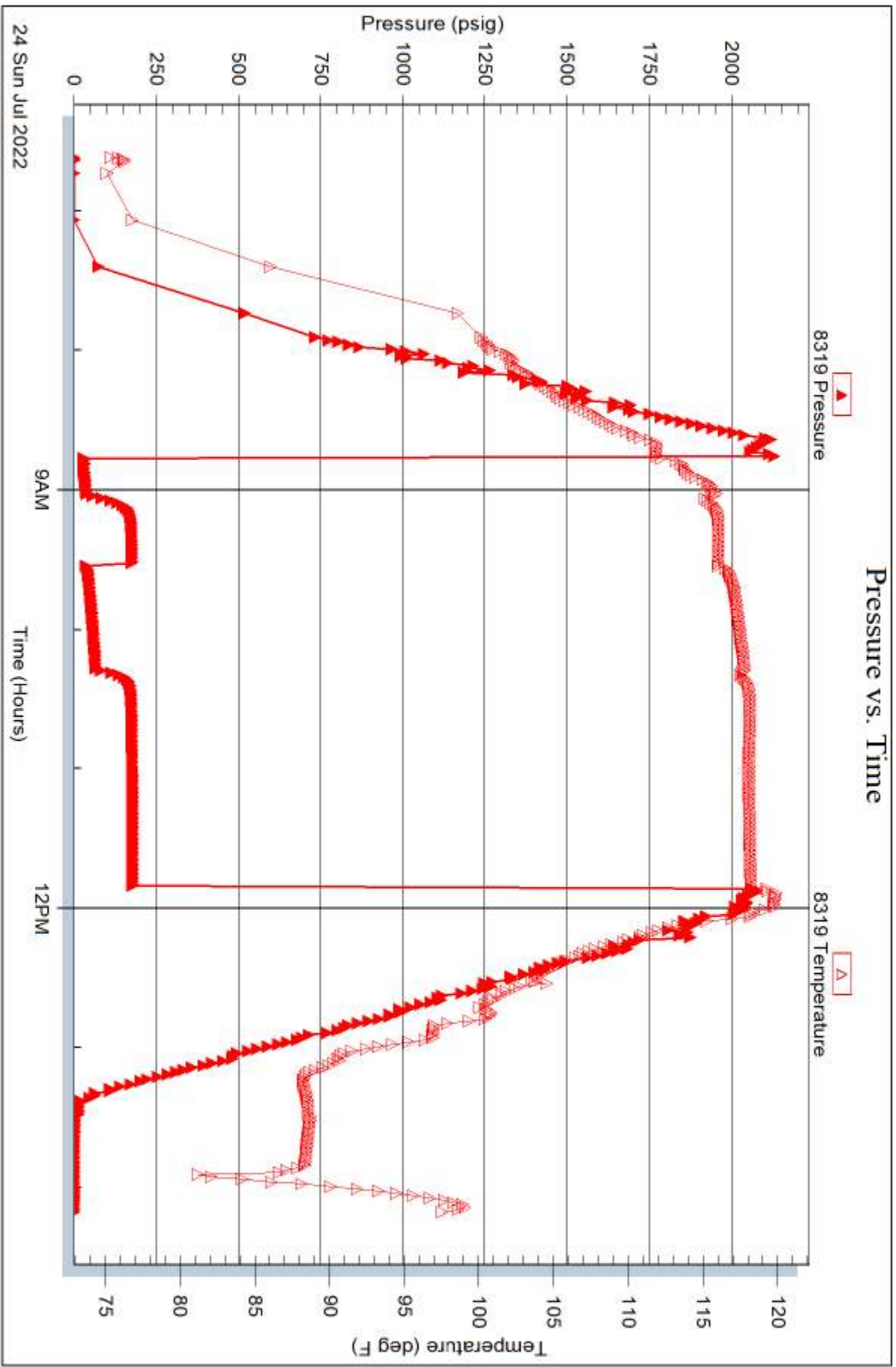
Serial #: 8319

Inside

Shakespeare Oil, Inc

Otley 5-28

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 68140

Printed: 2022.07.26 @ 18:25:52



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68136

Well Name & No. Ottley #5-28 Test No. 1 Date 7/20/2022  
 Company Shakespeare Oil Co, Inc Elevation 2662 KB 2652 GL  
 Address 202 W Marsh St Salem, IL 62881  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 3800 28 Twp 14s Rge. 32W Co. Logan State Ks

Interval Tested 3800 - 3830 Zone Tested LKL H  
 Anchor Length 30' Drill Pipe Run 3780 Mud Wt. 9.1  
 Top Packer Depth 3795 Drill Collars Run — Vis 50  
 Bottom Packer Depth 3800 Wt. Pipe Run — WL 7.2  
 Total Depth 3830 Chlorides 2300 ppm System LCM 2#

Blow Description IF 1/4" blow  
ISI No return.  
FF 2lb blow  
FSI No return.

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

Rec Total 5 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1873  Test 1800 T-On Location 1100  
 (B) First Initial Flow 17  Jars 300 T-Started 1507-1404  
 (C) First Final Flow 19  Safety Joint — T-Open 1507  
 (D) Initial Shut-In 291  Circ Sub — T-Pulled 1652  
 (E) Second Initial Flow 17  Hourly Standby — T-Out 1841  
 (F) Second Final Flow 18  Mileage 44 mi 96 Comments —  
 (G) Final Shut-In 86  Sampler —  
 (H) Final Hydrostatic 1856  Straddle —  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Day Standby — Sub Total -350  
 Accessibility — Total 1846  
 Sub Total 2196 MP/DST Disc't —

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

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

Tribolite 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. 68137

Well Name & No. Ottley #5-28 Test No. 2 Date 7/21/2022  
 Company Shakespeare Oil Co, Inc Elevation 2662 KB 2652 GL  
 Address Salem, IL  
 Co. Rep / Geo. Vern Schrag Rig SW 8  
 Location: Sec. 28 Twp 14S Rge. 32W Co. Logan State IL

Interval Tested 2890 - 2902 Zone Tested LKC K  
 Anchor Length 12' Drill Pipe Run 3876 Mud Wt. 9.1  
 Top Packer Depth 3885 Drill Collars Run — Vis 46  
 Bottom Packer Depth 3890 Wt. Pipe Run — WL 8.8  
 Total Depth 3902 Chlorides 2600 ppm System LCM 2

Blow Description IF 1/4" blow  
ISI No return.  
PF No blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>med</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 10 BHT 111 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>1938</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>0730</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0810</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>1002</u>
(D) Initial Shut-In <u>340</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1147</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1410</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>64RT 96</u>	Comments <u>—</u>
(G) Final Shut-In <u>301</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1887</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> EM Tool <u>-350</u>
	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>-350</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1846</u>
	Sub Total <u>2196</u>	MP/DST Disc't <u>—</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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68138

Well Name & No. Ottley #5-28 Test No. 3 Date 7/22/2022  
 Company Shakespeare Oil Co, Inc Elevation 2662 KB 2652 GL  
 Address Salem, IL  
 Co. Rep / Geo. Vern Shrag Rig SW 8  
 Location: Sec. 28 Twp 14s Rge. 32w Co. Logan State Ks

Interval Tested 3980-4090 Zone Tested Marmalon  
 Anchor Length 110 Drill Pipe Run 3971 Mud Wt. 9.2  
 Top Packer Depth 3975 Drill Collars Run — Vis 57  
 Bottom Packer Depth 3980 Wt. Pipe Run — WL 8.8  
 Total Depth 4090 Chlorides 3300 ppm System LCM 2#

Blow Description IF: 5.4" blow.  
ISI: No return.  
FF: BOB @ 12 min - 16.3" blow  
FSI: 1.3" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>6 MCO</u>	<u>20</u>	<u>40</u>	<u>40</u>	
	<u>130' GIP</u>				

Rec Total 50 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1954</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>0915</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1002</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1207</u>
(D) Initial Shut-In <u>288</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1424</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1627</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>642</u> 96	Comments
(G) Final Shut-In <u>850</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1935</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>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>-350</u>
	<input type="checkbox"/> Accessibility	Total <u>1996</u>
	Sub Total <u>2346</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. 68139

Well Name & No. Ottley #5-28 Test No. 4 Date 7/23/2022  
 Company Shakespeare Oil Co Elevation 2662 KB 2652 GL  
 Address Salem, IL  
 Co. Rep / Geo. Vern Schrag Rig SW8  
 Location: Sec. 28 Twp 14s Rge. 32w Co. Logan State Ks

Interval Tested 4176-4250 Zone Tested Johnson  
 Anchor Length 74 Drill Pipe Run 4161 Mud Wt. 9.3  
 Top Packer Depth 4171 Drill Collars Run — Vls 55  
 Bottom Packer Depth 4176 Wt. Pipe Run — WL 8.0  
 Total Depth 4250 Chlorides 3700 ppm System LCM 2#

Blow Description IF 1/2" blow  
ISI No return.  
FF No blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2066  Test 1950 T-On Location 0900  
 (B) First Initial Flow 17  Jars 300 T-Started 1011  
 (C) First Final Flow 20  Safety Joint \_\_\_\_\_ T-Open 1235  
 (D) Initial Shut-In 429  Circ Sub \_\_\_\_\_ T-Pulled 1427  
 (E) Second Initial Flow 18  Hourly Standby \_\_\_\_\_ T-Out 1627  
 (F) Second Final Flow 19  Mileage 64rt 96 Comments \_\_\_\_\_  
 (G) Final Shut-In 361  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2037  Straddle \_\_\_\_\_

Initial Open 15  EM Tool -350  
 Initial Shut-In 30  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Ruined Packer \_\_\_\_\_  
 Final Shut-In 30  Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2346 Sub Total -350  
 Total 1996 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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## Test Ticket

NO. 68140

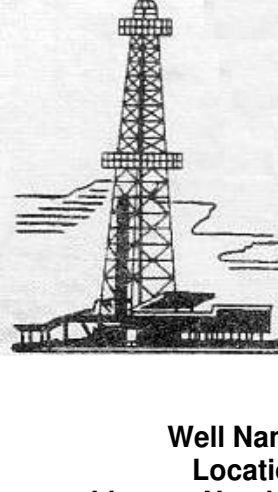
Well Name & No. Ottley #5-28 Test No. 5 Date 7/24/2022  
 Company Shakespeare Oil Co, Inc Elevation 2662 KB 2652 GL  
 Address Salem IL  
 Co. Rep / Geo. Vern Schrag Rig SW 8  
 Location: Sec. 28 Twp 14s Rge. 32w Co. Logan State KS

Interval Tested 4248-4290 Zone Tested Cherokee Sand  
 Anchor Length 42' Drill Pipe Run 4226 Mud Wt. 9.2  
 Top Packer Depth 4243 Drill Collars Run — Vis 52  
 Bottom Packer Depth 4248 Wt. Pipe Run — WL 8.8  
 Total Depth 4290 Chlorides 3700 ppm System LCM 2#  
 Blow Description IF BOB @ 8 35"  
ISI Surface return.  
FF BOB @ open - 280+ "blow.  
ISI 1/4" return Gas to surface on bleed off

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>6 MCO</u>	<u>15</u>	<u>15</u>	<u>70</u>	
<u>60</u>	<u>60 CM</u>	<u>20</u>	<u>45</u>	<u>35</u>	
	<u>Gas to surface</u>				

Rec Total 110 BHT 118 Gravity — API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2116  Test 1950 T-On Location 0530  
 (B) First Initial Flow 30  Jars 300 T-Started 0637  
 (C) First Final Flow 36  Safety Joint — T-Open 0845  
 (D) Initial Shut-In 174  Circ Sub — T-Pulled 1153  
 (E) Second Initial Flow 33  Hourly Standby — T-Out 1411  
 (F) Second Final Flow 64  Mileage 642+ 96 Comments —  
 (G) Final Shut-In 176  Sampler —  
 (H) Final Hydrostatic 2020  Straddle —  EM Tool -350  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Day Standby — Sub Total -350  
 Accessibility — Total 1996  
 Sub Total 2346 MP/DST Disc'l —

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: OTTLEY #5-28  
Location: NE SW SE NE Sec. 28-14S-32W  
Licence Number: API: 15-109-21647  
Spud Date: July 15, 2022  
Surface Coordinates: 2241' FNL & 772' FEL

Region: Logan Co., KS  
Drilling Completed: July 25, 2022

Bottom Hole Coordinates:  
Ground Elevation (ft): 2652' K.B. Elevation (ft): 2662'  
Logged Interval (ft): 3400' To: RTD Total Depth (ft): 4365'  
Formation: 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:

Southwind Drilling Co., Rig #8  
DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8", 481.90'; Kelly 40.00', Tool Joint 5.5" ; Bit: 7-7/8", JZ-HA23C, 3/15s; rpm 80, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

### CASING:

Ran 6 joints of new 23#, 8 5/8" casing, tally @ 256', set @ 268'  
Ran 104 joints of new 4 1/2" casing, tally @ 4365', set @ 4364', port collar set @ 2045'

### CIRCULATION SYSTEM:

Continental EMSCO D-375, duplex, 6 x 14 x 2, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Reid Atkins.

### GAS DETECTION SYSTEM:

None.

### DRILL STEM TESTS:

Trilobite Testing, Inc., Scott City, KS, Bradley "Walt" Walter.

### OPEN HOLE LOGS:

DN (PE), DI (SP), ML, 5" detail LTD-3400; 2" DI to surface casing; ELI Wireline Services, Hays, KS, Jeff Leubbers.

ROP (min/ft) Five Ten	DST	Lithology	Depth	Geological Descriptions	Total Gas TG (units) Fifty One
			3400	LS: It brown to grayish; mic-vf xtal; few if any grains; no visible porosity; N.S. Shale: grays; LS: It brown to gray; mic-vf xtal; few if any grains; peletal in part; platy; sli. chalky; no visible porosity; N.S. LS: It brown to gray; vf-xtal; fos-frag in part; tight int frag porosity; N.S. LS: as above. LS: It gray to brown; vf-xtal; trc vf-glauca; fos-frag; tight int frag porosity; N.S. Shale: dk gray; poorly represented 3510. Shale: mostly grays; some greenish; lacks siltstones? LS: It gray to brown; vf-xtal; fos-frag similar to above; tight int frag porosity; weak mineral fluor; N.S.; 3530. LS: It brown to grayish; mic-vf-xtal; sli. chalky; some tight int frag porosity; N.S. LS: mostly lt brown, some grayish; vf-xtal; fusulnids; tight int fos-frag porosity; N.S. LS: It brown; mic-vf xtal; finely fos-frag in part; tight int frag porosity; N.S. LS: as above; traces opa; chert; N.S. LS: It brown to grayish; vf-xtal; finely fos-frag; tight int frag porosity; N.S. LS: It brown to grayish; vf-xtal; finely fos-frag; trc fine spar; trc dk gray sh streaks & spots; tight int frag porosity; N.S. HEEBNER SH 3604 (-942) Shale: black; carbon; fissile; >10% 3630. LS: dense; indistinct; N.S. Shale: green; calc & silty in part; LS: It brown; vf-xtal; mostly dense; sli chalky in part; trc very fine oolite; very poor int ool porosity; N.S. LANSING 3641 (-979) LS: It brown, off white; mic-vf xtal; sli chalky; granular in part, white, opa, chert; very poor int gran porosity; N.S. LS: It brown, grayish in part; vf-xtal; dense to sli chalky; sli granular; no visible porosity; N.S. Shale: dk gray; Shale: greenish gray; sli silty; calc. LS: It brown to sli gray; vf-xtal; very finely oolitic in part; sli drusy but very tight int ool & vug porosity; spotted lt brn dry stain; no visible oil; <1% 3690-30m, N.S. 60m. LS: It brown; vf-xtal; sli oolitic to fos-frag; very tight int grain porosity; weak fluor; no visible oil; trace 3710. Only trc poor spotted dry stains at 3715. LS: It brown; mic-vf-xtal; dense to chalky in part; no visible porosity; N.S. LS: It brown; vf-xtal; mostly dense; no visible porosity; N.S. LS: It brown; vf-xtal; dense oolite; very tight int ool porosity at best; trc drab dry stain; crush few micro-drops oil; <<1% 3745, 3745-60m. LS: It brown to grayish; mic vf-xtal; dense, blocky; sli granular in part; no visible porosity; N.S., 3760. LS: as above; sli chalky; includes minor white, opa, chert; N.S. LS: cherty as above. LS: It brown; vf-xtal; oolitic to fos-frag in part; mostly dense; no visible porosity; N.S. LS: as above. 15 STAND SHORT TRIP, CIRC 90 MIN BEFORE DST #1. MUNCIE CREEK SH 3801 (-1139) LS: black; carbonaceous; few chips 3820. LS: md-dk grayish-brown; vf-xtal; mottled chert; dense; trc pin-point por. w/sli wet stain; no live oil; almost no dry stains; 3820. LS: mostly dull, green, some grays; LS: lt-md brown; vf-xtal; fos-frag; poor-fair int frag por & sli vug porosity; show free gassy oil; lt brown spotted dry stains; strong odor; bright even fluor; 1-2% 3830-30m, decr at 60m. LS: lt brn to v-lt gray; mic-vf xtal; dense; N.S. Shale: green, gray LS: md-grayish-brn; dense; w/trc bright fluor white chalk, sli pin-pt stains; poor dry stain; 3860. Shale: gray to green; 3868-stop LS: lt gray; vf-xtal; tight int frag porosity w/speckled dk brn to black wet stain; crush few micro-drops dark oil; only weak fluor; 1% spotted dry stain at 30m. LS: lt-md grayish brown; vf-xtal; trc m-coarse sulfides; mostly dense; N.S.; w/green to gray shales and smokey chert. LS: It grayish-brn; mic-vf xtal; almost no grains; soft chalk in part; trc pin point wet stain; only poor porosity at best; no oil; STARK SH 3892 (-1230) LS: black; carbon; few chips at 3902-30m. LS: dk brown; vf-xtal; vitreous; dense; N.S. LS: mottled gray - brn; vf-xtal; trc fos-frag; poor - fair int frag & scattered vug por.; sptd dk brn wet stain; bright fluor; only trc 3902-30m; crush VSSO, sptd to sat md-dk brn dry stain; 2-5% at 60m. SSO & stains along with barren vug por at 3911-30m, decr at 3911-60m. LS: lt brn to gray; mic-vf xtal; sli. chalky; trc opa; chert; dense; N.S. HUSHPUCKNEY SH 3928 (-1266) LS: blk; carb.; trc 3940 in 26 min, 151 fpm, incr 3950; LS: It gray; vf-xtal; tight int ool & poor-fair vug porosity; spotted stains; crush few micro-drops; bright fluor; 1% at 3950, decr 3960. LS: gray & brown mixed; vf-xtal; cherty; few if any grains; dense; no visible porosity; N.S.; 3960, 3970. LS: It brown; mic-vf xtal; dense to chalky in part; no visible porosity; N.S. LS: mostly lt brown, some gray; mic-vf xtal; trc opa; chert; dense to chalky in part; N.S. Shale: green & maroon. Siltst: green; calcareous; trace 4000 Shale: maroon, silty; 4010. MARMATON 4004 (-1342) LS: It brown; vf-xtal; fine to coarse fos-frag; tight int frag & poor fair vug porosity; SFO; no fluor; sptd to sat dry stain; 1-2% 4020, decr 4030. Shale: maroon, green, yellowish; very calcareous; LS: vari-colored grains; some fine & coarse oolites; looks detrital; dense; no visible porosity; N.S., 4040, 4050. Shale: green, gray; LS: It brown; mic-vf xtal; granular in part; scattered tight vug porosity; trc dry stain; no visible oil; 4070. LS: It brown; mic-vf xtal; mostly dense; very poor vugular porosity w/speckled wet stain; few micro-drops free oil; dull fluor at best; 4080. LS: It brown; vf-xtal; oolitic; very tight int ool porosity; speckled wet stain; only dull fluor; no visible oil; few chips spotted dry stain; 4090-30m. Shale: black; LS: It brown, off-white; mic-vf xtal; platy; sli chalky; gray semi-opaq chert; no visible porosity; N.S., 4120. LS: It brown; mic-vf xtal; sli granular & chalky; includes gray, semi-opaq chert; no visible porosity; weak mineral fluor; N.S., 4130. Shale: black; with smokey chert; 4140. LS: dk brn; dense; N.S. Shale: gray, green; LS: It brown; mic-vf xtal; chalky; very tight int grain or xtaline porosity; extra weak fluor; crush few micro-drops oil; trace 4150. Shale: black; 4160. FT SCOTT LS 4149 (-1487) LS: lt-md browns; vf-xtal; mostly dense; sli granular; gray opa; chert; no visible porosity; N.S. Shale: mottled green & maroon; 4170. LS: It brown; vf-xtal; granular in part; tight int gran por; break sli show dk oil; weak fluor; trace 4180. L. CHEROKEE SH 4178 (-1516) Shale: black; 4190. LS: It brown; mic-vf xtal; chalky; no visible porosity; N.S. LS: lt-md brown; mic-vf xtal; platy; mostly dense but sli chalky; no visible por.; N.S. LS: lt-dk brown; vf-xtal; mostly dense; poor apparent porosity at best; N.S. LS: md-dk brown; vf-xtal; fos-frag in part; fair vug porosity w/ dk brn stain & SSO on break; almost no fluor; trace at 4230, incr to 1% at 4240, 4250. LS: It brown; mic-vf xtal; platy; no grains; no porosity; N.S.; along with much green, gray shale in CFS 30/60; Shale: greens & grays SAND 4262 (-1600) Sand: very fine; rounded cuttings, friable; no acid reaction; spotted to sat dry stains; no fluor; crush fair show dk brn oil; 10-20% 4270 thru 4275-CFS. Sand: as above except there seem less siliceous and samples more shaley & shows some siliceous white sand; thru to 4280 -stop. MISSISSIPPI 4265 (-1623) LS: white; mic-vf xtal; very sandy; pure, there is clean qtz residue after acid digestion; non-porous; dull fluor; N.S.; > 50% 4290-30 min. LS: white; mic-vf xtal; looks sandy; chalky; no visible porosity; N.S. along with much green to gray shale, possible slough. LS: as above with much soft chalk; N.S. LS: white; mic-xtal; mostly soft chalk; washing samples white; N.S. LS: white; mic-xtal; very chalky; includes few chips of orange semi-trans. chert; trc milky opa; chert; N.S., 4350. LS: It brown; mic-vf xtal; chalky; no visible porosity; N.S. ROTARY TOTAL DEPTH 4365 (-1703)	

RTD 11:03 pm  
07/24/2022