

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	TERRY 1-19
Doc ID	1594519

Tops

Name	Top	Datum
Base Anhydrite	2151	+597
Heebner	3903	-1155
Lansing	3941	-1193
Muncie Creek	4099	-1351
Stark Shale	4193	-1445
Hushpuckney	4228	-1480
Lenapah	4302	-1554
Pawnee	4399	-1651
Cherokee Shale	4477	-1729
Johnson	4517	-1769
Mississippian	4543	1795



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



Invoice

DATE	INVOICE #
9/14/2021	33891

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

RECEIVED
SEP 20 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-19	Terry	Lane	Southwind	Oil	Development	Surface Pipe	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	6.00	240.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	1,000.00	1,000.00
325	Standard Cement				170	Sacks	14.50	2,465.00T
279	Bentonite Gel				3	Sack(s)	30.00	90.00T
278	Calcium Chloride				8	Sack(s)	40.00	320.00T
276	Flocele				42	Lb(s)	3.00	126.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				170	Sacks	2.00	340.00
583D	Drayage				334	Ton Miles	1.00	334.00
	Subtotal							4,999.00
	Sales Tax Lane County						7.50%	231.38

INT
502-5
jm

We Appreciate Your Business!	Total	\$5,230.38
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DW



TICKET 33891

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

PAGE 1 OF 1

SERVICE LOCATIONS:
 1. Ness City, KS WELL/PROJECT NO. 1-19 LEASE Terry COUNTY/PARISH Lane CITY Dighton STATE KS DATE 9-14-2021 OWNER
 2. Oil CONTRACTOR Southwind RIG NAME/NO. _____ SHIPPED VIA OT DELIVERED TO Location ORDER NO. _____
 3. Oil WELL TYPE _____ WELL CATEGORY Development JOB PURPOSE Surface Pipe WELL PERMIT NO. _____
 4. Oil WELL LOCATION Dighton, 5-N-1-E
1/2-N, W-into

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1					40	mi	6.00	240.00
576S		1					1	job	1,000.00	1,000.00
325		1					170	sk	14.50	2465.00
279		1					3	sk	30.00	90.00
278		1					8	sk	40.00	320.00
276		1					42	lb	3.00	126.00
290		1					2	gal	42.00	84.00
581		1					170	sk	2.00	340.00
583		1					16,650	lbs	1.00	334.00

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 9-14-2021 TIME SIGNED 10:30 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 1
 4973
 4999.00

514

Hand 231 38

TOTAL 5230 38

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

SWIFT OPERATOR Shelley French APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-14-2021 PAGE NO. 1

CUSTOMER Shakespeare Oil Co. WELL NO. 1-19 LEASE Terry JOB TYPE Surface Pipe TICKET NO. 33891

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2100							ON LOCATION 8 7/8" RTD: 269
								Break Circulation
	2130	3 1/2	15		✓	200		Pump 5 bbl H2O Spacer
	2135	3 1/2	41		✓	150		Mix 170 sks of Standard CMT @ 14.7 ppq
	2145	4	0		✓	100		Begin Displacement
		4	12		✓	300		* Circulate CMT to Surface * [15 sks]
	2160	-	16		✓	200		KO Pump * Shut in * - Release PSI * Hold *
	2155							Wash up Trk
	2230							Job Complete
								170 sks of Standard 2% gel, 3% CC used * 15 sks to Pit *
								Thanks!
								Gordon Kurling, John

SWIFT



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



Invoice

DATE	INVOICE #
9/27/2021	33979

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

RECEIVED

OCT 04 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-19	Terry	Lane	Southwind	Oil	Development	Rotary PTA	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	6.00	240.00
576D-P	Pump Charge - PTA				1	Job	1,000.00	1,000.00
328-4	60/40 Pozmix (4% Gel)				290	Sacks	11.50	3,335.00T
276	Flocele				75	Lb(s)	3.00	225.00T
290	D-Air				4	Gallon(s)	42.00	168.00T
581D	Service Charge Cement				290	Sacks	2.00	580.00
583D	Drayage				512	Ton Miles	1.00	512.00
	Subtotal							6,060.00
	Sales Tax Lane County						7.50%	279.60
We Appreciate Your Business!							Total	\$6,339.60

INT

502-5
gn

DW



CHARGE TO: Shakespeare Oil + GAS
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 33979

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Ness City, KS</u>	WELL/PROJECT NO. <u>1-19</u>	LEASE <u>Terry</u>	COUNTY/PARISH <u>LANE</u>	STATE <u>KS</u>	CITY <u>Dighton</u>	DATE <u>9-27-2021</u>	OWNER
2. <u>Southwind</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Southwind</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.	
3. <u>Oil</u>	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Rotary PTA</u>		WELL PERMIT NO.	WELL LOCATION <u>Dighton, 5-N, 1-E</u>	
4. <u>REFERRAL LOCATION</u>	INVOICE INSTRUCTIONS					<u>1/2-N, W-INTD</u>	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1					40	MI	6.00	240.00
576P		1					1	job	1,000.00	1,000.00
328-4		1					290	sks	11.50	3335.00
276		1					75	lbs	3.00	225.00
290		1					4	gal	42.00	168.00
581		1					290	sks	2.00	580.00
583		1					512	TM	1.00	512.00

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: 9-27-2021 TIME SIGNED: 9:15 A.M. P.M.

SWIFT OPERATOR: Gudrun Fuchs APPROVAL

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

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

SURVEY: 25,995 lbs AGREE UNDECIDED DISAGREE

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: 1 TOTAL: 6060.00

TAX: 299.60

TOTAL: 6359.60

SWIFT OPERATOR: Gudrun Fuchs APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-27-2021 PAGE NO. 1

CUSTOMER Shakespeare Oil-Gas WELL NO. 1-19 LEASE Terry JOB TYPE Plug to Abandon TICKET NO. 33979

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700				DP		Drill Pipe	ON Location 4 1/2" DP
	0820	4 1/2	13.1		✓		350	Plug @ 2150' w/ 50 sks Displace w/ Mud
	0920	4 1/2	2.1		✓		250	Plug @ 1350' w/ 80 sks
	1000	4 1/2	13.1		✓		200	Plug @ 650' w/ 50 sks
	1020	4 1/2	10.5		✓		150	Plug @ 300' w/ 40 sks
	1045	4 1/2	5.25		✓		100	Plug @ 60' w/ 20 sks
	1060	4	8		✓		50	Plug RAT hole w/ 30 sks
	1055	4	5.25		✓		50	Plug Mouse hole w/ 20 sks
	1100							Wash up Trk #112
	1130							Job Complete
								290 sks of 60/40 Pozmix 4%gel 1/4lb Flo @ 13.1 ppg used
								Thanks!
								B. Dean Kirby Isaac



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67382

DST#: 1

ATTN: Vern Schrag

Test Start: 2021.09.21 @ 12:28:35

GENERAL INFORMATION:

Formation: **H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:05
 Time Test Ended: 18:19:35
 Interval: **4095.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2748.00 ft (KB)
 2738.00 ft (CF)
 KB to GR/CF: 10.00 ft

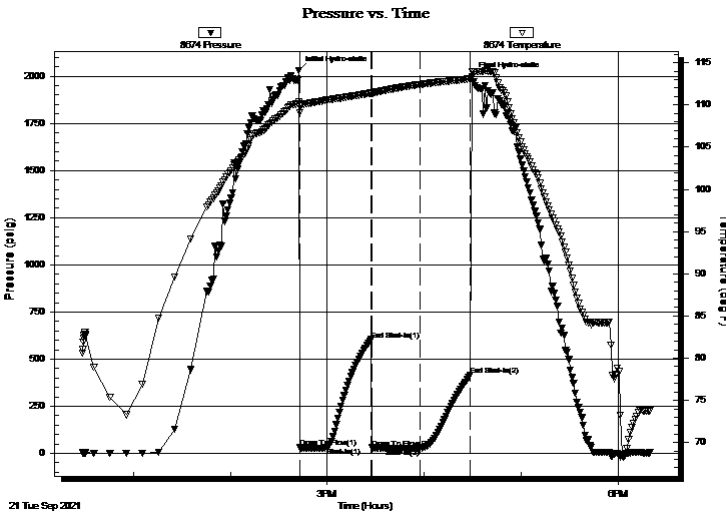
Serial #: 8674

Outside

Press@RunDepth: 29.03 psig @ 4096.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.21 End Date: 2021.09.21 Last Calib.: 2021.09.21
 Start Time: 12:28:40 End Time: 18:19:34 Time On Btm: 2021.09.21 @ 14:42:35
 Time Off Btm: 2021.09.21 @ 16:29:35

TEST COMMENT: IF: 1/4 blow died in surface.
 IS: No return.
 FF: No blow.
 FS: No return. 15-30-30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.08	110.33	Initial Hydro-static
1	31.33	109.04	Open To Flow (1)
17	32.79	110.58	Shut-In(1)
45	603.18	111.41	End Shut-In(1)
45	29.92	111.35	Open To Flow (2)
75	29.03	112.43	Shut-In(2)
106	413.99	113.13	End Shut-In(2)
107	1997.48	113.91	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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67382

DST#: 1

ATTN: Vern Schrag

Test Start: 2021.09.21 @ 12:28:35

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 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

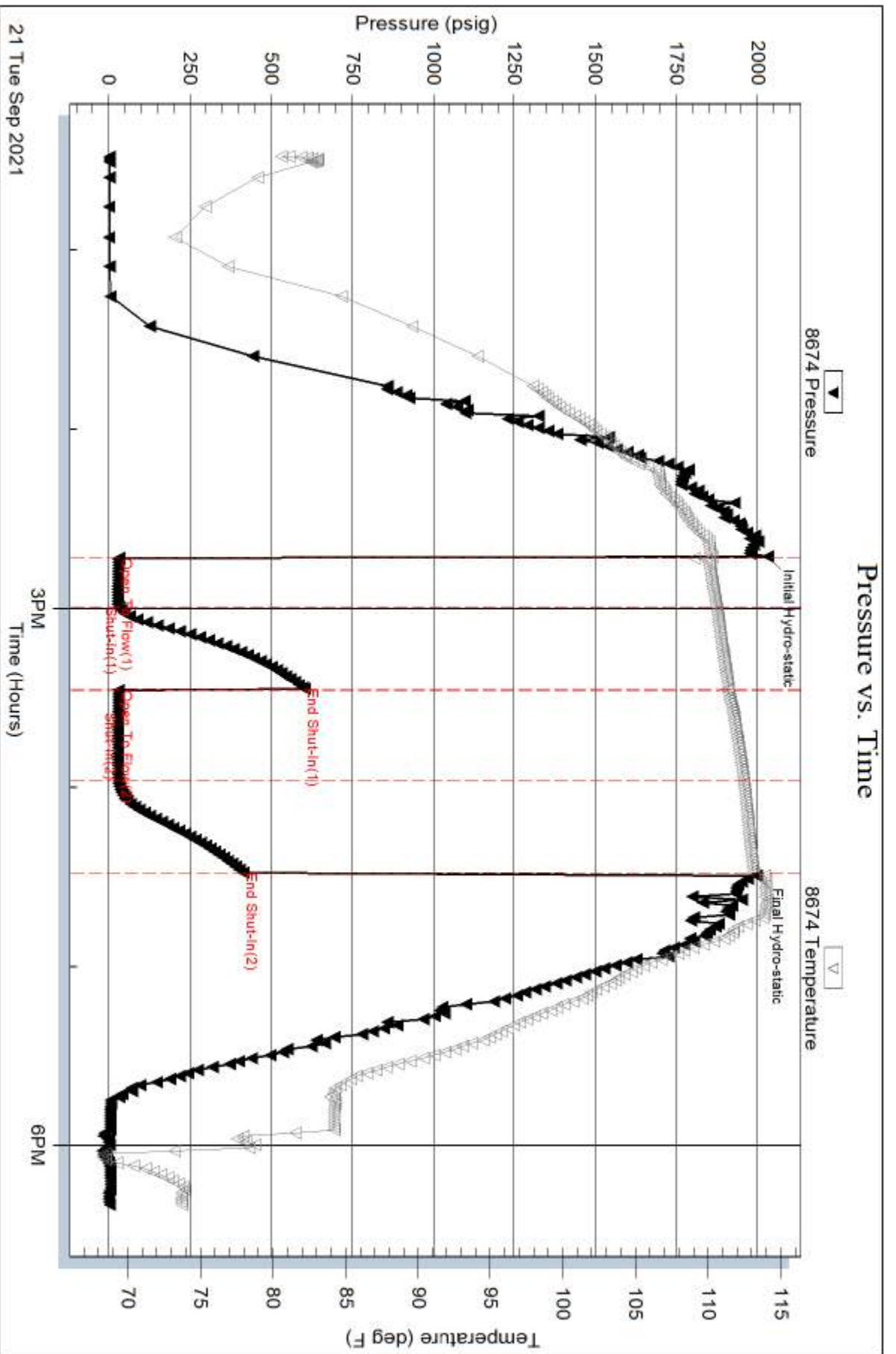
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



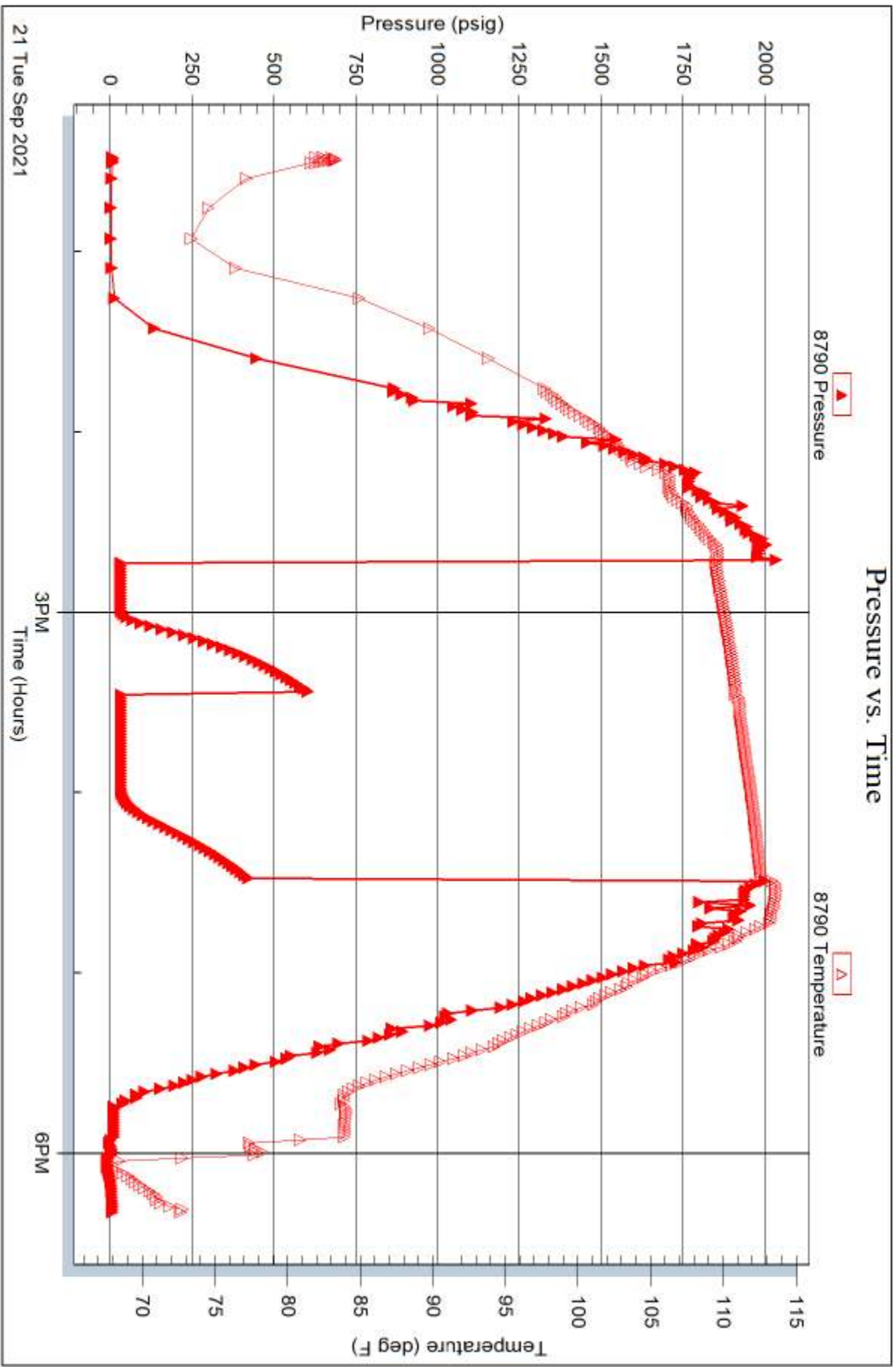
Serial #: 8790

Inside

Shakespeare Oil Co

Terry 1-19

DST Test Number: 1



21 Tue Sep 2021



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67383

DST#: 2

ATTN: Vern Schrag

Test Start: 2021.09.22 @ 01:28:43

GENERAL INFORMATION:

Formation: **J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:04:13
 Tester: Brandon Turley
 Time Test Ended: 08:51:43
 Unit No: 79
 Interval: **4156.00 ft (KB) To 4173.00 ft (KB) (TVD)**
 Reference Elevations: 2748.00 ft (KB)
 Total Depth: 4173.00 ft (KB) (TVD)
 2738.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

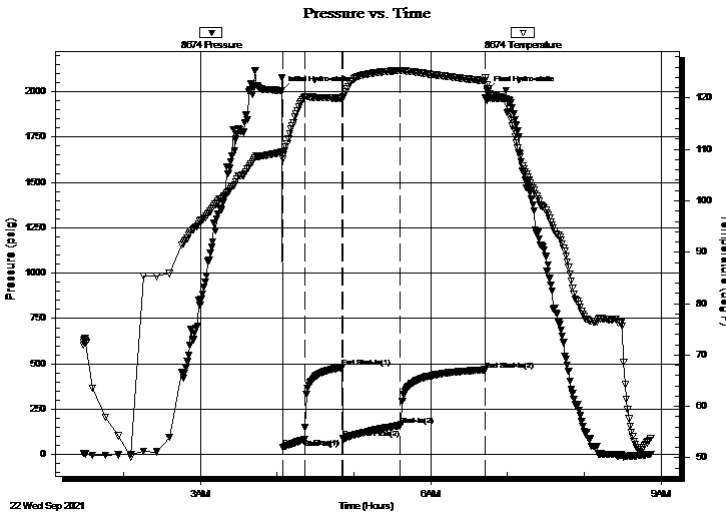
Serial #: 8674

Outside

Press@RunDepth: 160.93 psig @ 4157.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.22 End Date: 2021.09.22 Last Calib.: 2021.09.22
 Start Time: 01:28:48 End Time: 08:51:42 Time On Btm: 2021.09.22 @ 04:03:13
 Time Off Btm: 2021.09.22 @ 06:44:13

TEST COMMENT: IF: BOB in 11 min 12 1/2
 IS: No return.
 FF: BOB in 23 min. 16
 FS: No return. 15-30-45-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.08	109.43	Initial Hydro-static
1	41.90	108.08	Open To Flow (1)
18	83.48	120.11	Shut-In(1)
48	479.51	119.91	End Shut-In(1)
48	87.48	119.96	Open To Flow (2)
93	160.93	125.34	Shut-In(2)
159	467.58	123.35	End Shut-In(2)
161	2006.66	121.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 95%w 5%m	0.88
126.00	ocmw 10%o 60%w 30%m	1.77
73.00	gocw m 10%g 10%o 30%w 50%m	1.02
20.00	go 20%g 80%o	0.28
0.00	157 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67383

DST#: 2

ATTN: Vern Schrag

Test Start: 2021.09.22 @ 01:28:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mcw 95%w 5%m	0.884
126.00	ocmw 10%o 60%w 30%m	1.767
73.00	gocw m 10%g 10%o 30%w 50%m	1.024
20.00	go 20%g 80%o	0.281
0.00	157 GIP	0.000

Total Length: 282.00 ft Total Volume: 3.956 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

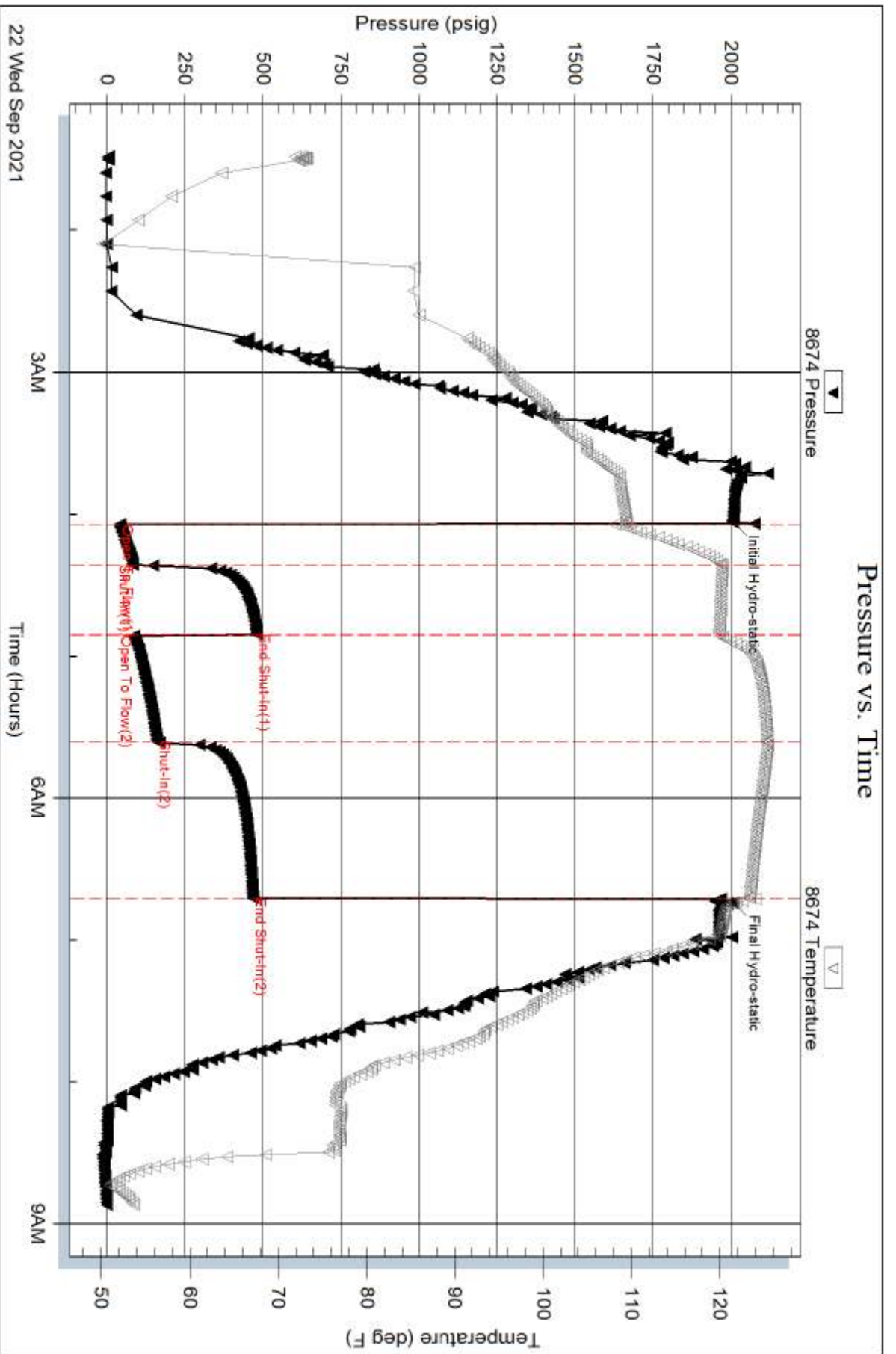
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 26@40=28

.21@39=65000



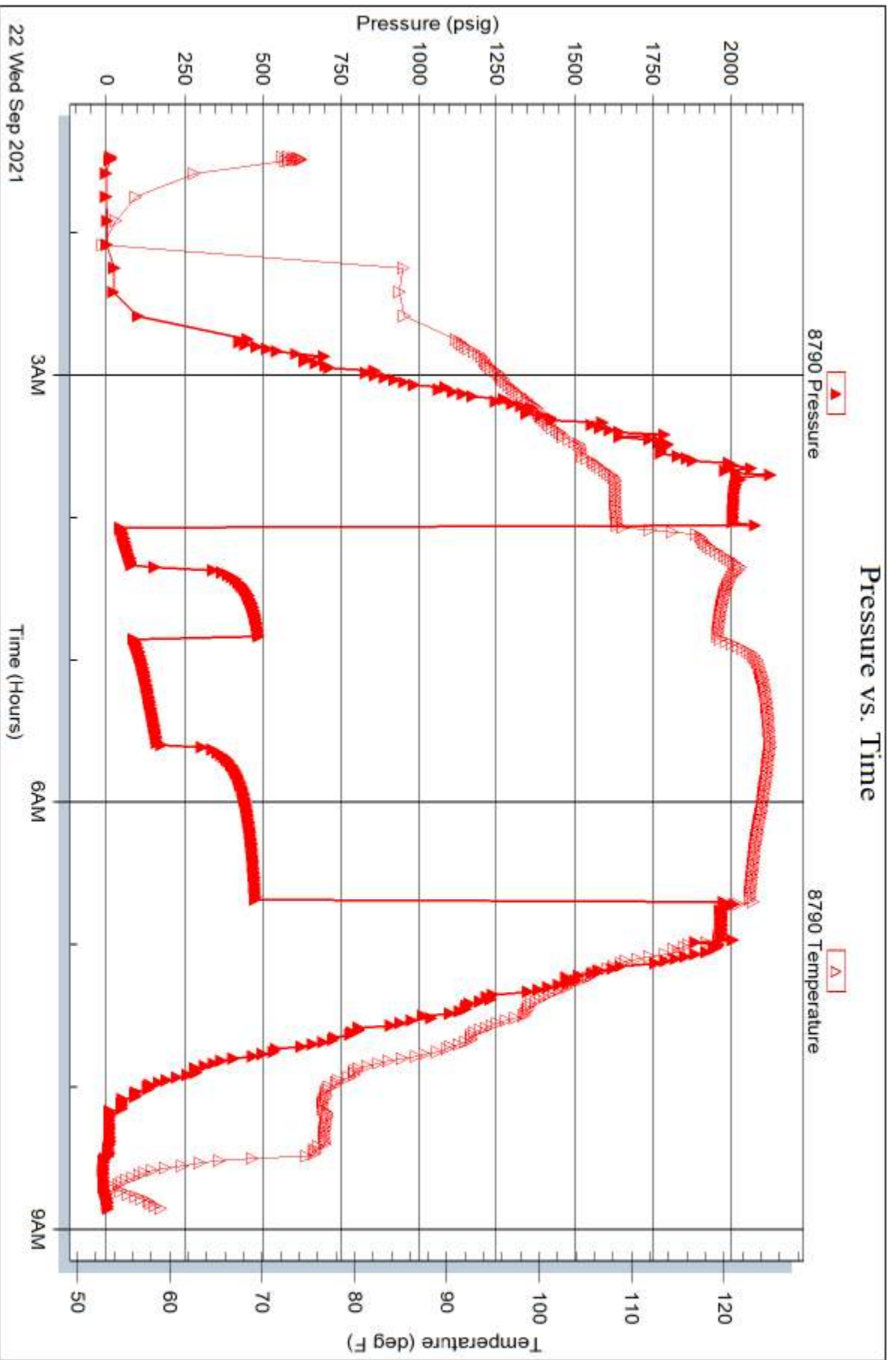
Serial #: 8790

Inside

Shakespeare Oil Co

Terry 1-19

DST Test Number: 2





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67384

DST#: 3

ATTN: Vern Schrag

Test Start: 2021.09.22 @ 16:15:19

GENERAL INFORMATION:

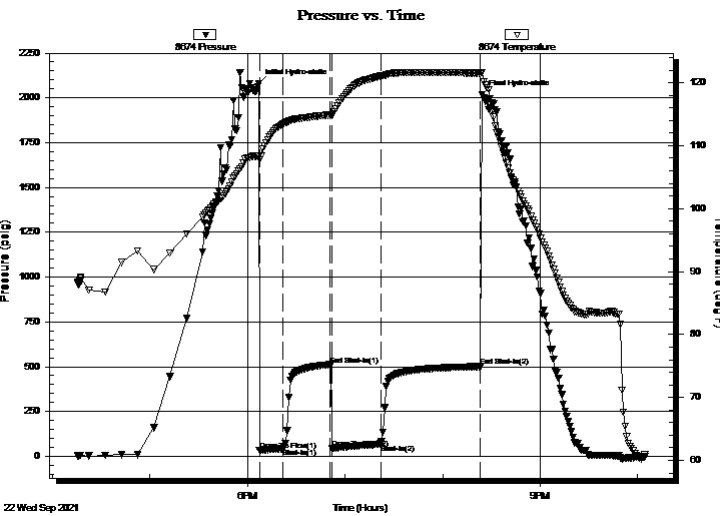
Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:07:19
 Time Test Ended: 22:04:49
 Interval: **4190.00 ft (KB) To 4204.00 ft (KB) (TVD)**
 Total Depth: 4204.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2748.00 ft (KB)
 2738.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8674

Outside

Press@RunDepth: 69.28 psig @ 4191.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.22 End Date: 2021.09.22 Last Calib.: 2021.09.22
 Start Time: 16:15:24 End Time: 22:04:48 Time On Btm: 2021.09.22 @ 18:06:49
 Time Off Btm: 2021.09.22 @ 20:24:19

TEST COMMENT: IF: 1/4 blow built to 10.
 IS: Surface blow built to 1/4.
 FF: BOB in 16 min. 22
 FS: Surface blow built to 1/4 died in 27 min. 15-30-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.20	108.36	Initial Hydro-static
1	34.05	107.80	Open To Flow (1)
15	42.40	113.42	Shut-In(1)
44	511.30	114.89	End Shut-In(1)
45	42.56	114.87	Open To Flow (2)
75	69.28	121.03	Shut-In(2)
137	501.13	121.50	End Shut-In(2)
138	2018.29	121.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	gocm 10%g 10%o 80%m	0.43
82.00	go 20%g 80%o	1.15
0.00	252 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67384

DST#: 3

ATTN: Vern Schrag

Test Start: 2021.09.22 @ 16:15:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	gocm 10%g 10%o 80%m	0.435
82.00	go 20%g 80%o	1.150
0.00	252 GIP	0.000

Total Length: 113.00 ft

Total Volume: 1.585 bbl

Num Fluid Samples: 0

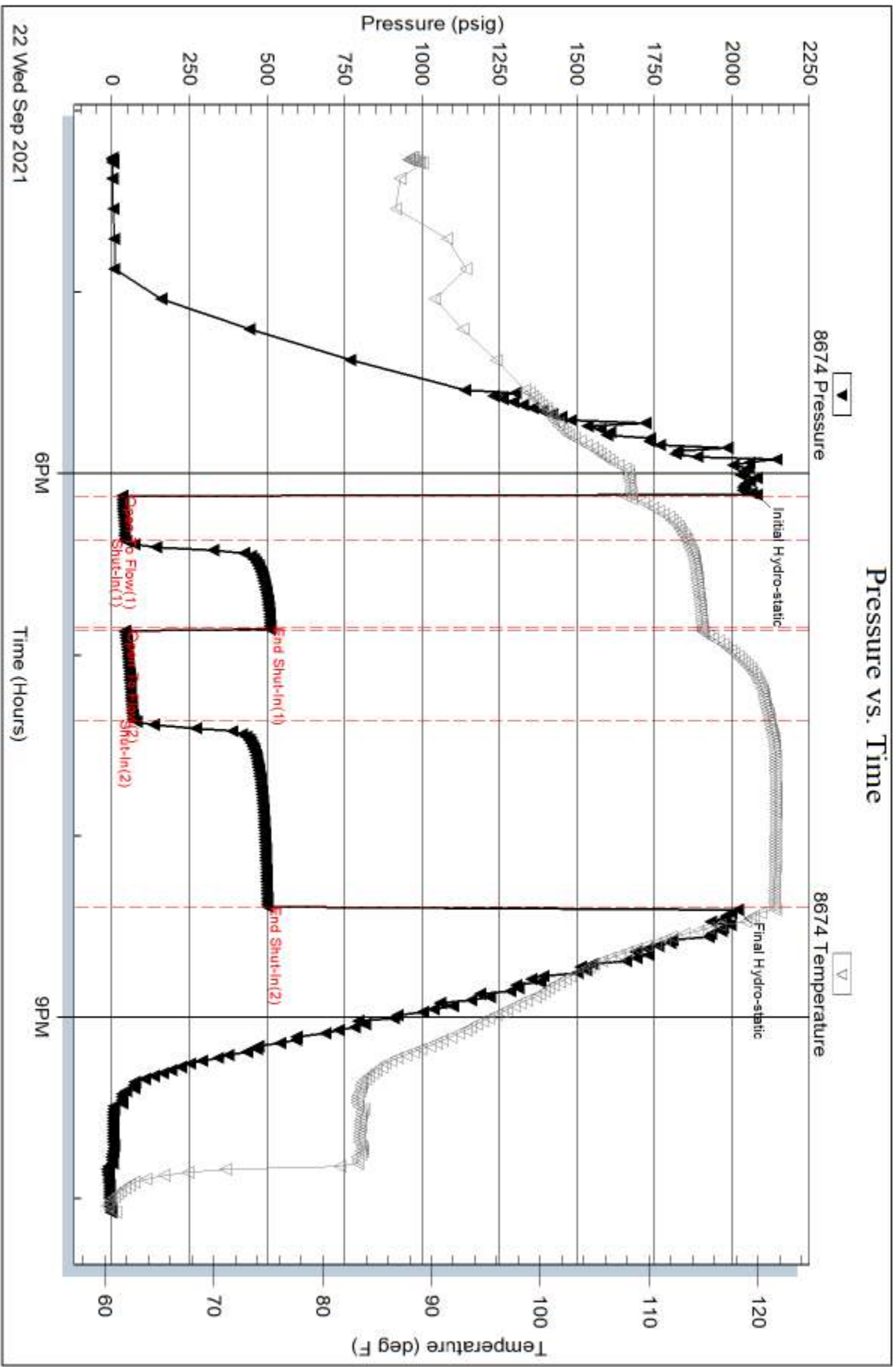
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32@70=31



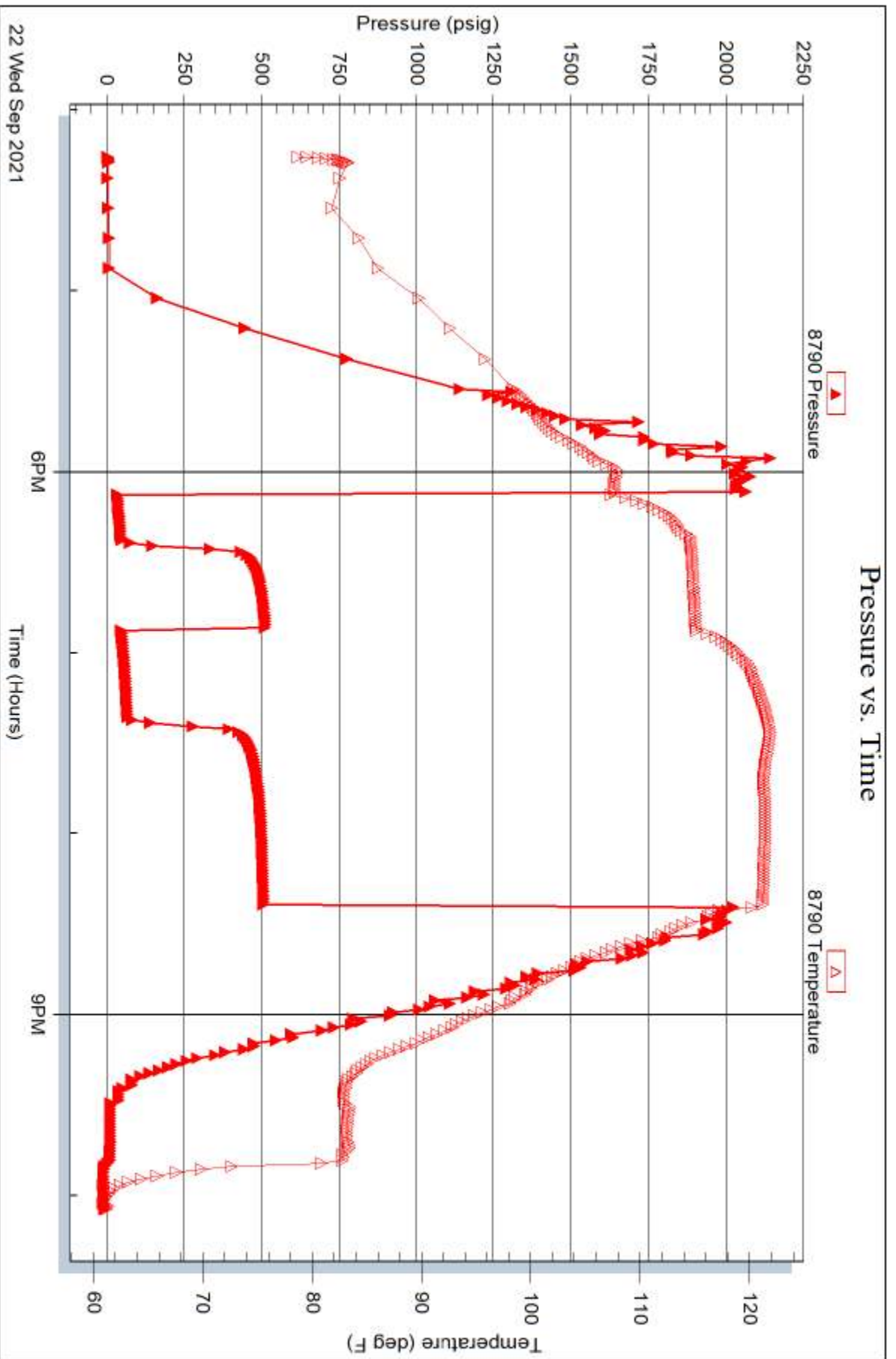
Serial #: 8790

Inside

Shakespeare Oil Co

Terry 1-19

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67384

Printed: 2021.09.23 @ 07:27:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67385

DST#: 4

ATTN: Vern Schrag

Test Start: 2021.09.23 @ 14:42:07

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:28:37

Time Test Ended: 20:44:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4276.00 ft (KB) To 4307.00 ft (KB) (TVD)

Reference Elevations: 2748.00 ft (KB)

Total Depth: 4307.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 738.25 psig @ 4277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.23

End Date:

2021.09.23

Last Calib.:

2021.09.23

Start Time: 14:42:12

End Time:

20:44:36

Time On Btm:

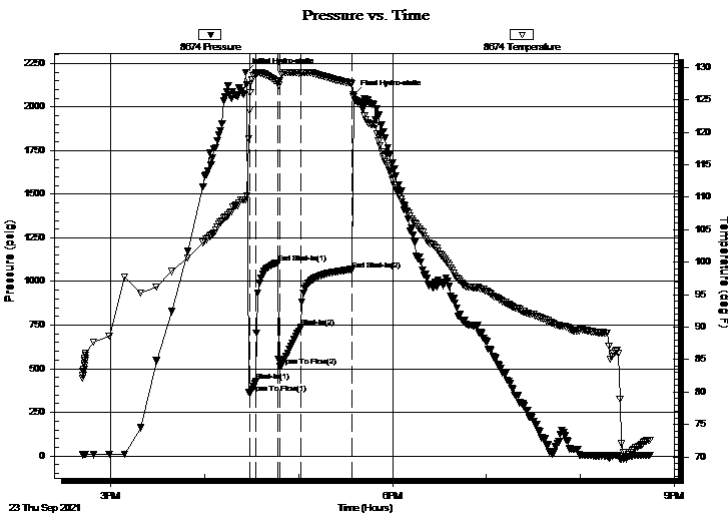
2021.09.23 @ 16:26:07

Time Off Btm:

2021.09.23 @ 17:35:07

TEST COMMENT: IF: BOB in 1 min. 63
IS: Surface blow built to 1.
FF: BOB 105
FS: No return. 5-15-15-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.22	109.64	Initial Hydro-static
3	362.35	123.39	Open To Flow (1)
7	426.11	128.94	Shut-In(1)
21	1107.99	127.74	End Shut-In(1)
22	512.59	127.95	Open To Flow (2)
36	738.25	129.09	Shut-In(2)
68	1068.08	127.52	End Shut-In(2)
69	2071.97	125.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
946.00	mcw 95%w 5%m	13.27
252.00	mcw 80%w 20%m	3.53
346.00	w cm 30%w 70%m	4.85

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67385

DST#: 4

ATTN: Vern Schrag

Test Start: 2021.09.23 @ 14:42:07

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:28:37

Time Test Ended: 20:44:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4276.00 ft (KB) To 4307.00 ft (KB) (TVD)

Reference Elevations: 2748.00 ft (KB)

Total Depth: 4307.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 4277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.23

End Date:

2021.09.23

Last Calib.:

2021.09.23

Start Time: 14:42:08

End Time:

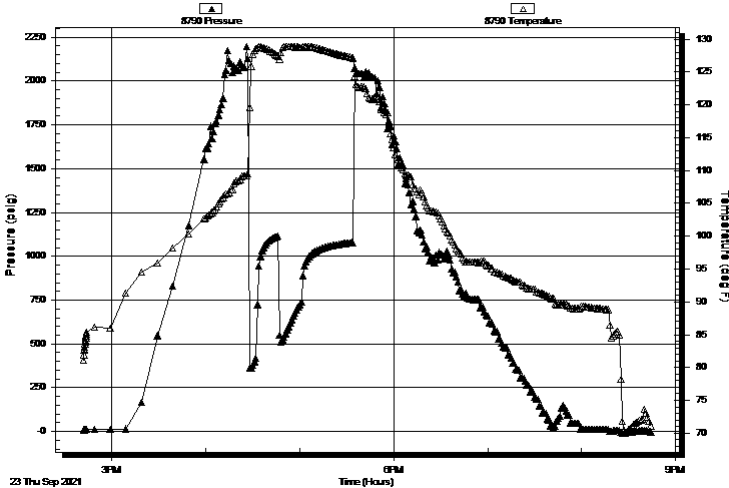
20:44:32

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 1 min. 63
IS: Surface blow built to 1.
FF: BOB 105
FS: No return. 5-15-15-30

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
946.00	mcw 95%w 5%m	13.27
252.00	mcw 80%w 20%m	3.53
346.00	w cm 30%w 70%m	4.85

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67385

DST#: 4

ATTN: Vern Schrag

Test Start: 2021.09.23 @ 14:42:07

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:

42000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

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
946.00	mcw 95%w 5%m	13.270
252.00	mcw 80%w 20%m	3.535
346.00	w cm 30%w 70%m	4.853

Total Length: 1544.00 ft Total Volume: 21.658 bbl

Num Fluid Samples: 0

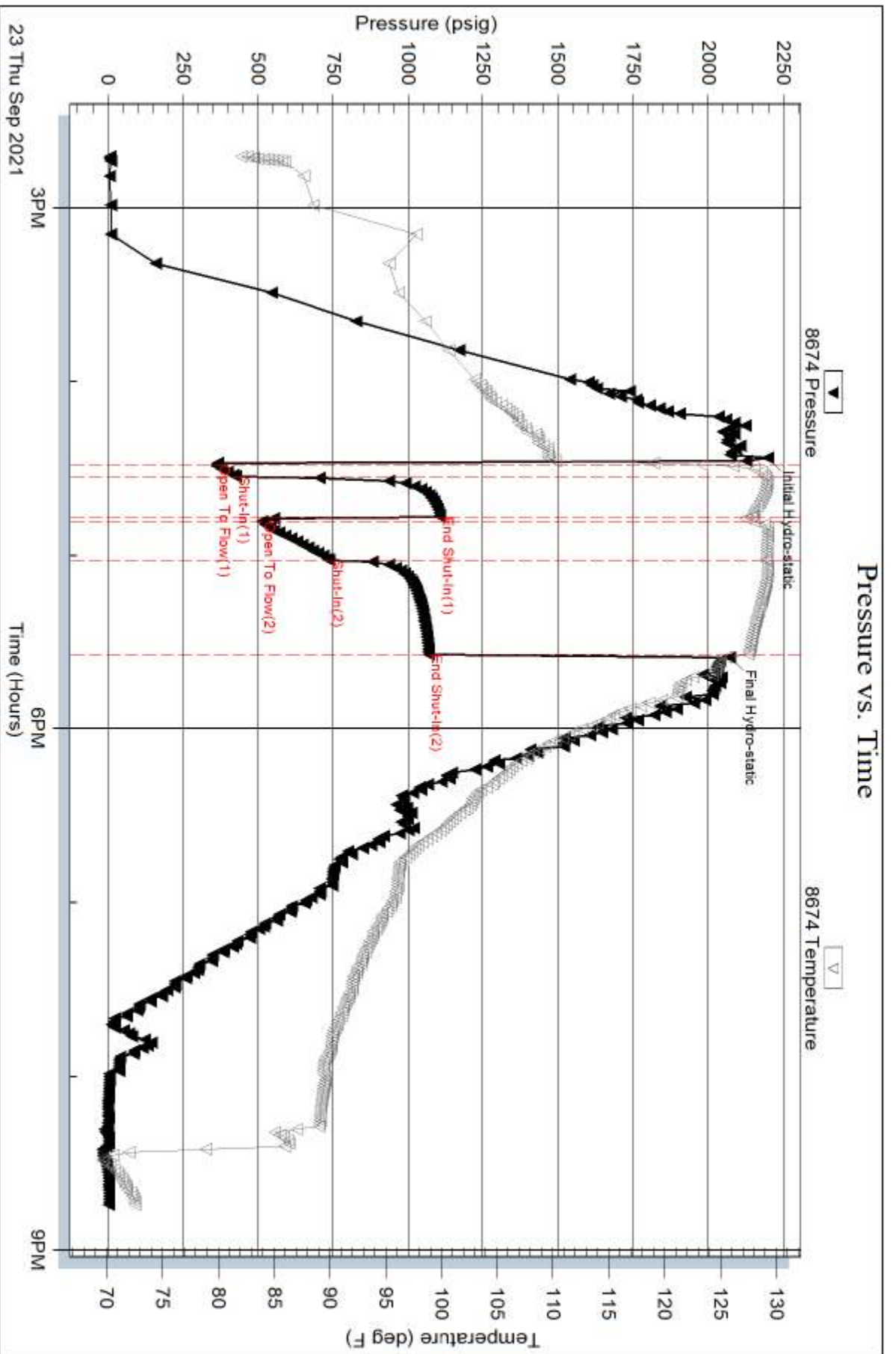
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .15@81=42000



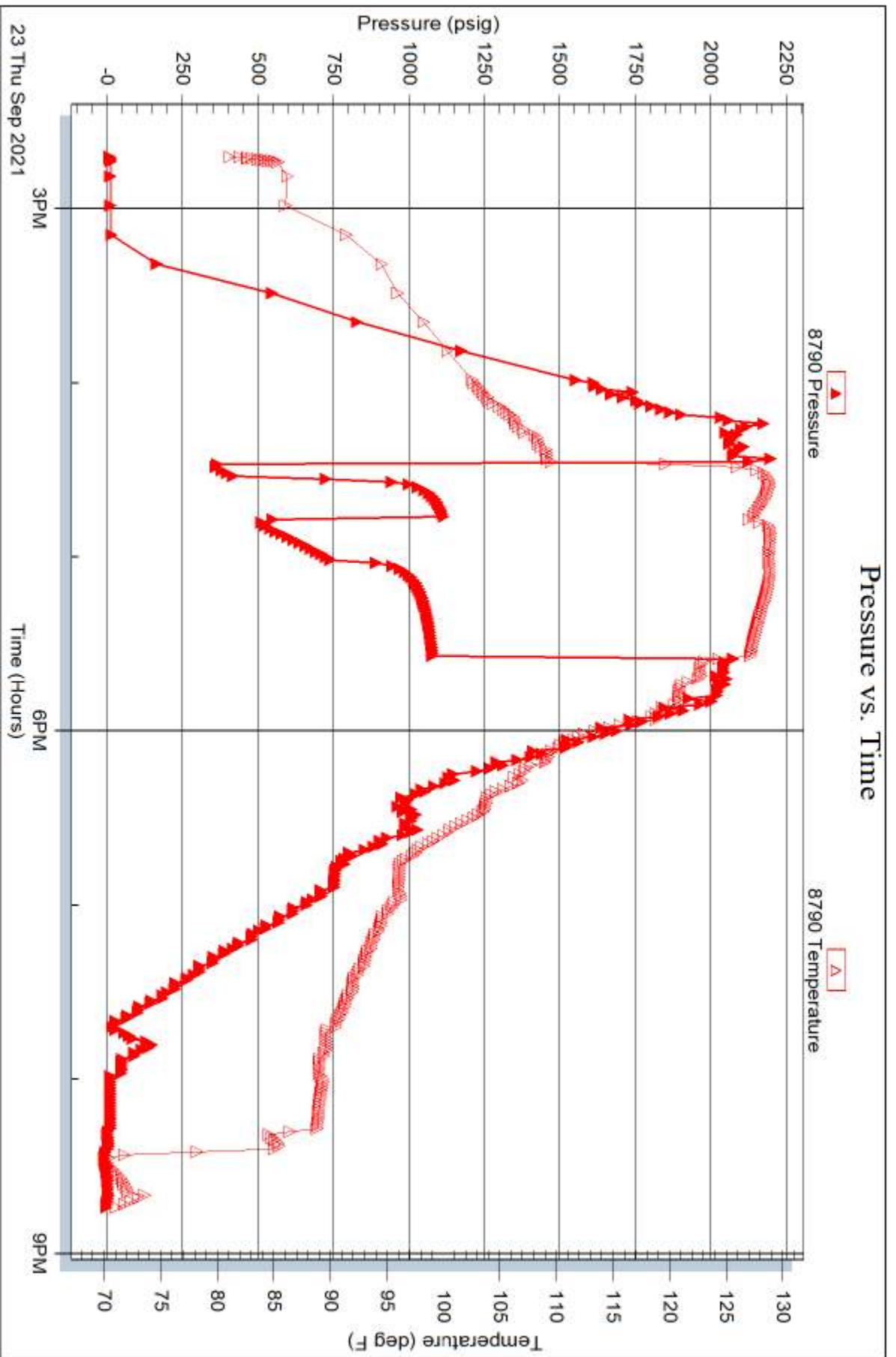
Serial #: 8790

Inside

Shakespeare Oil Co

Terry 1-19

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 67385

Printed: 2021.09.23 @ 21:10:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67386

DST#: 5

ATTN: Vern Schrag

Test Start: 2021.09.24 @ 10:27:39

GENERAL INFORMATION:

Formation: **ALT**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:37:09

Time Test Ended: 16:46:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4306.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2748.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 37.56 psig @ 4307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.24

End Date:

2021.09.24

Last Calib.:

2021.09.24

Start Time: 10:27:44

End Time:

16:46:38

Time On Btm:

2021.09.24 @ 13:36:39

Time Off Btm:

2021.09.24 @ 15:09:39

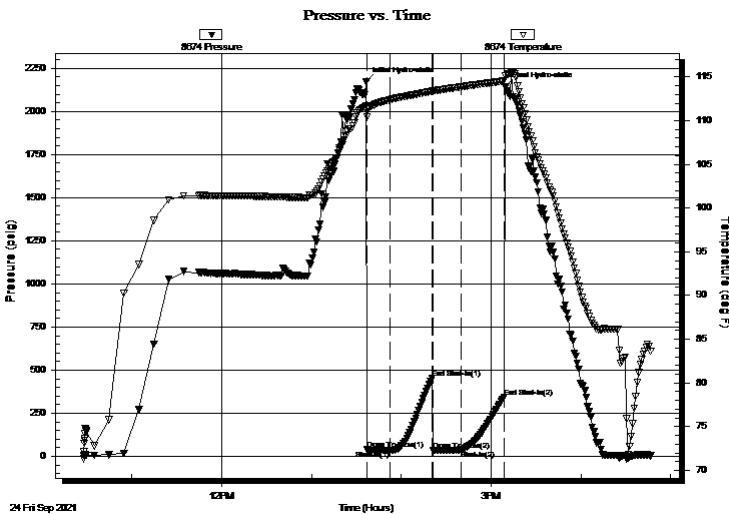
TEST COMMENT: IF: 1/4 blow never built.

IS: No return.

FF: No blow.

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.48	111.70	Initial Hydro-static
1	40.06	110.40	Open To Flow (1)
16	34.02	112.43	Shut-In(1)
44	455.33	113.38	End Shut-In(1)
45	36.74	113.39	Open To Flow (2)
63	37.56	113.87	Shut-In(2)
92	344.25	114.56	End Shut-In(2)
93	2143.76	115.19	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

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 67386

DST#: 5

ATTN: Vern Schrag

Test Start: 2021.09.24 @ 10:27:39

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: 73.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 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

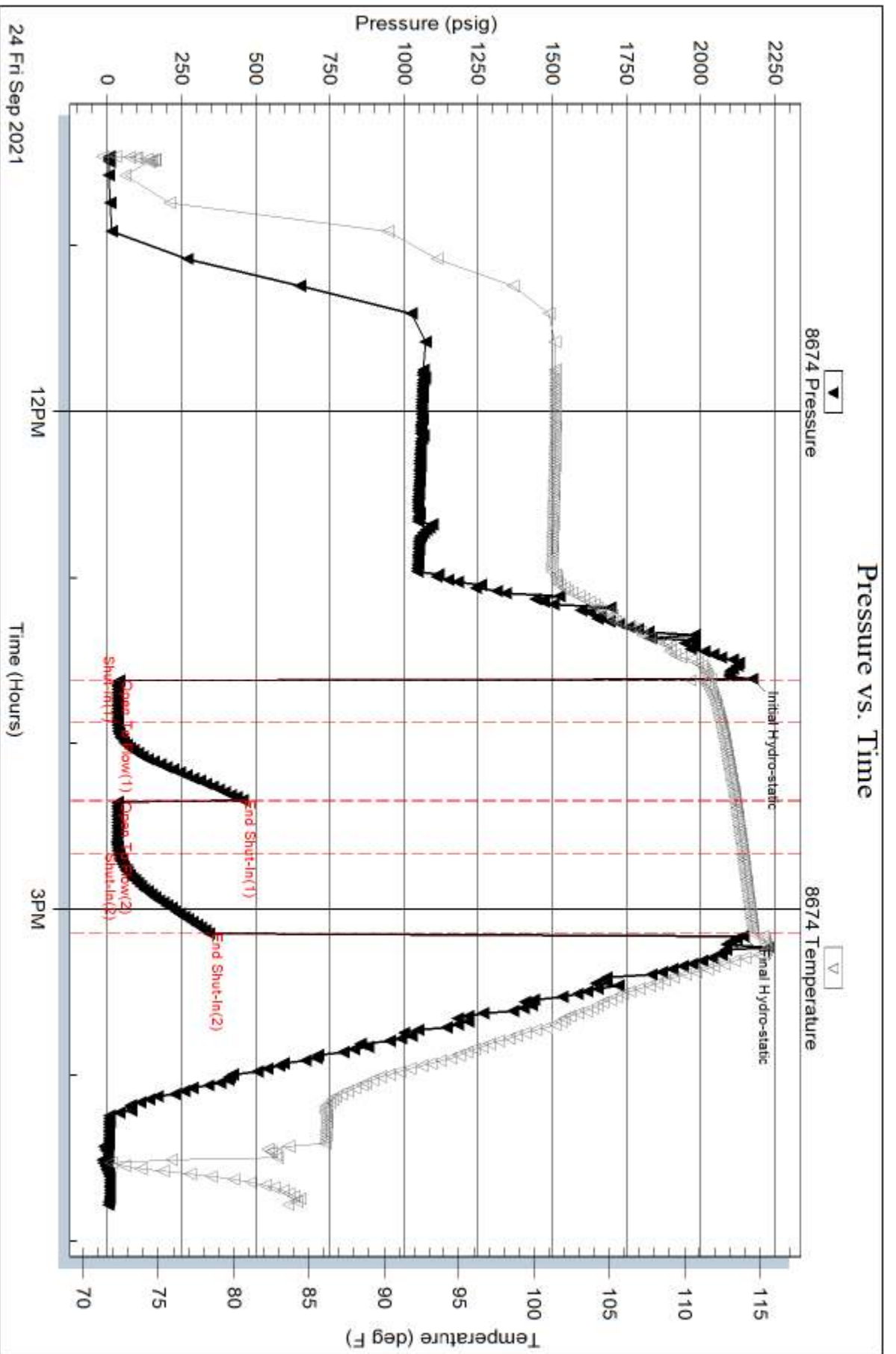
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



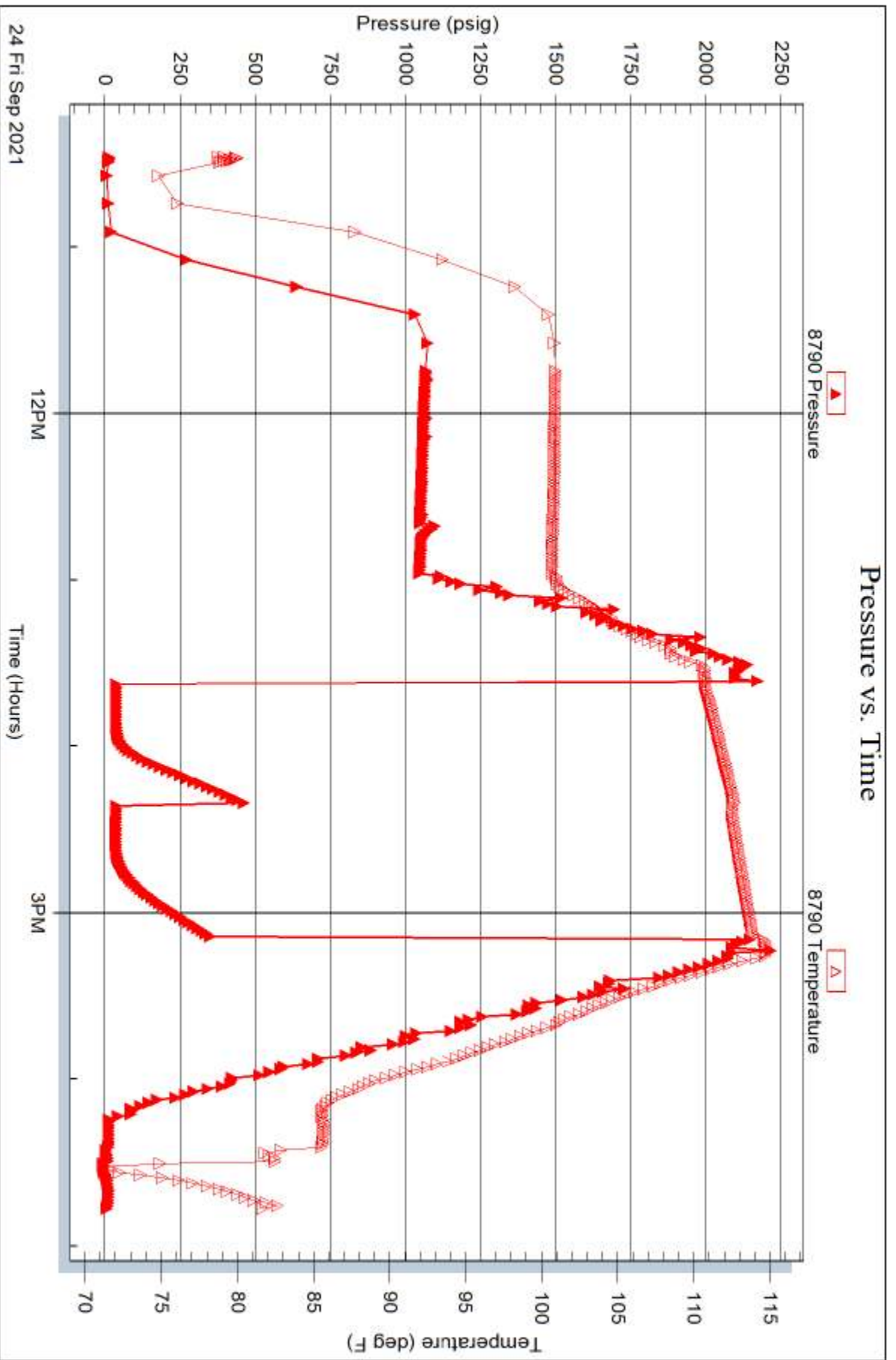
Serial #: 8790

Inside

Shakespeare Oil Co

Terry 1-19

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 67386

Printed: 2021.09.24 @ 17:10:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 66968

DST#: 6

ATTN: Vern Schrag

Test Start: 2021.09.25 @ 17:00:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:16:15

Time Test Ended: 00:00:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4520.00 ft (KB) To 4535.00 ft (KB) (TVD)

Reference Elevations: 2748.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8874 Inside

Press@RunDepth: 18.77 psig @ 4521.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.25 End Date: 2021.09.25

Last Calib.: 2021.09.26

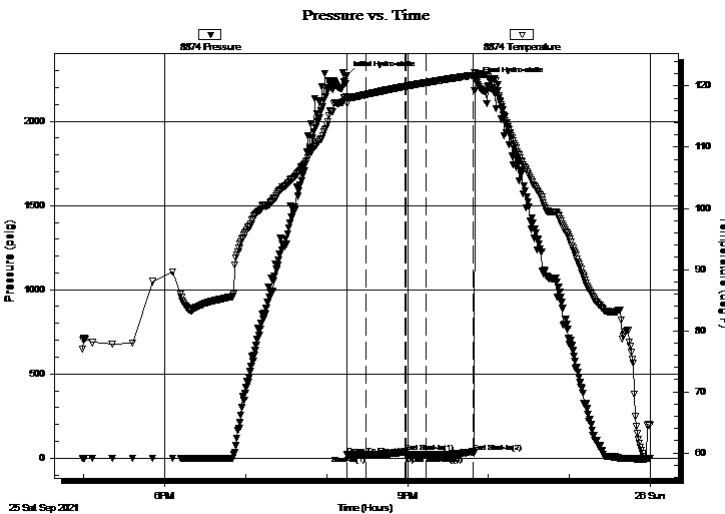
Start Time: 16:59:05 End Time: 23:59:44

Time On Btm: 2021.09.25 @ 20:15:00

Time Off Btm: 2021.09.25 @ 21:51:00

TEST COMMENT: IF: 1/4" blow.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.48	118.20	Initial Hydro-static
1	18.63	117.21	Open To Flow (1)
15	19.01	118.61	Shut-In(1)
44	36.84	119.95	End Shut-In(1)
44	17.95	119.96	Open To Flow (2)
59	18.77	120.56	Shut-In(2)
94	36.56	121.75	End Shut-In(2)
96	2236.03	121.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 66968

DST#: 6

ATTN: Vern Schrag

Test Start: 2021.09.25 @ 17:00:00

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: 67.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

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 bbf
3.00	mud 100%m	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbf

Num Fluid Samples: 0

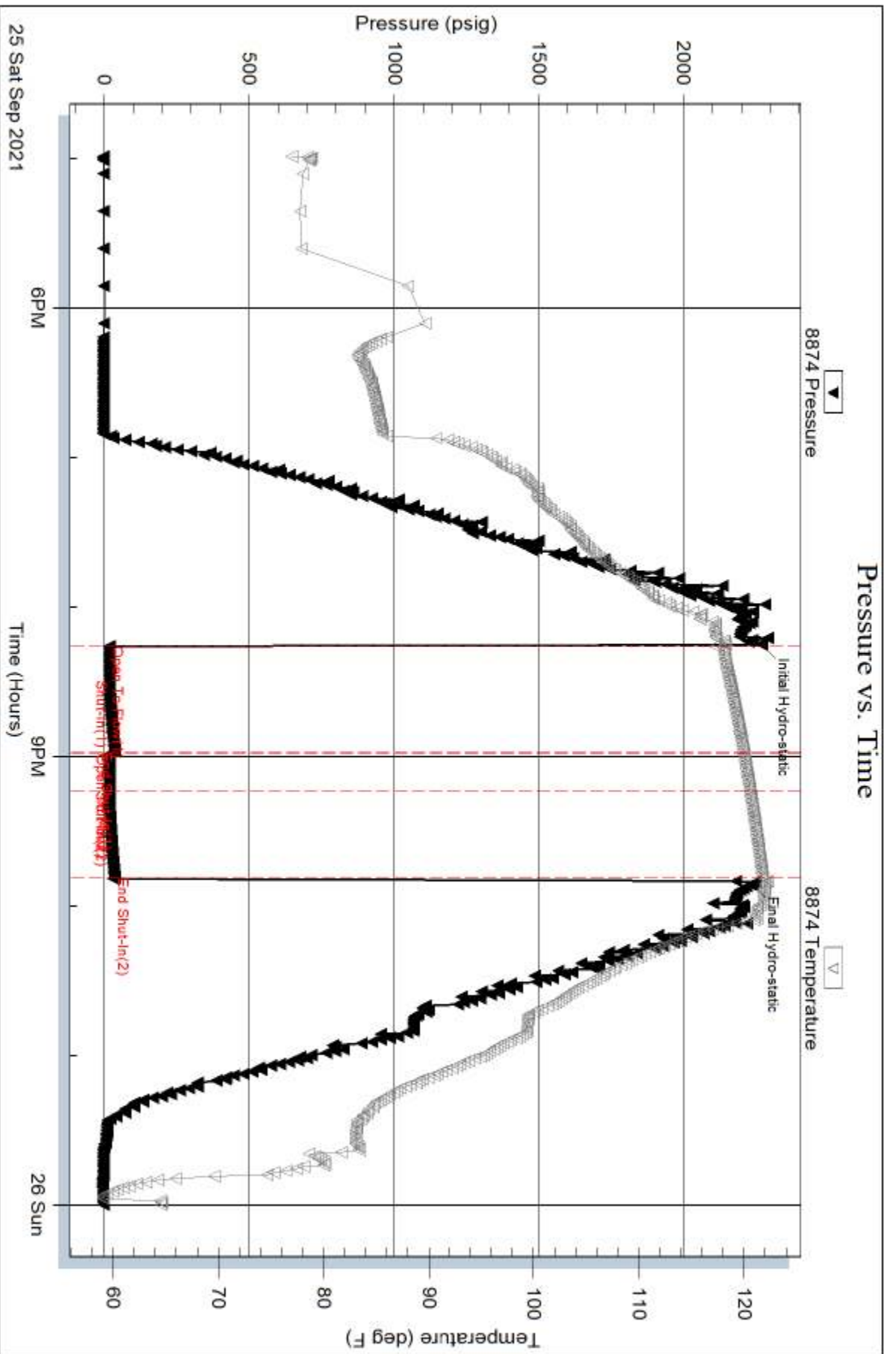
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

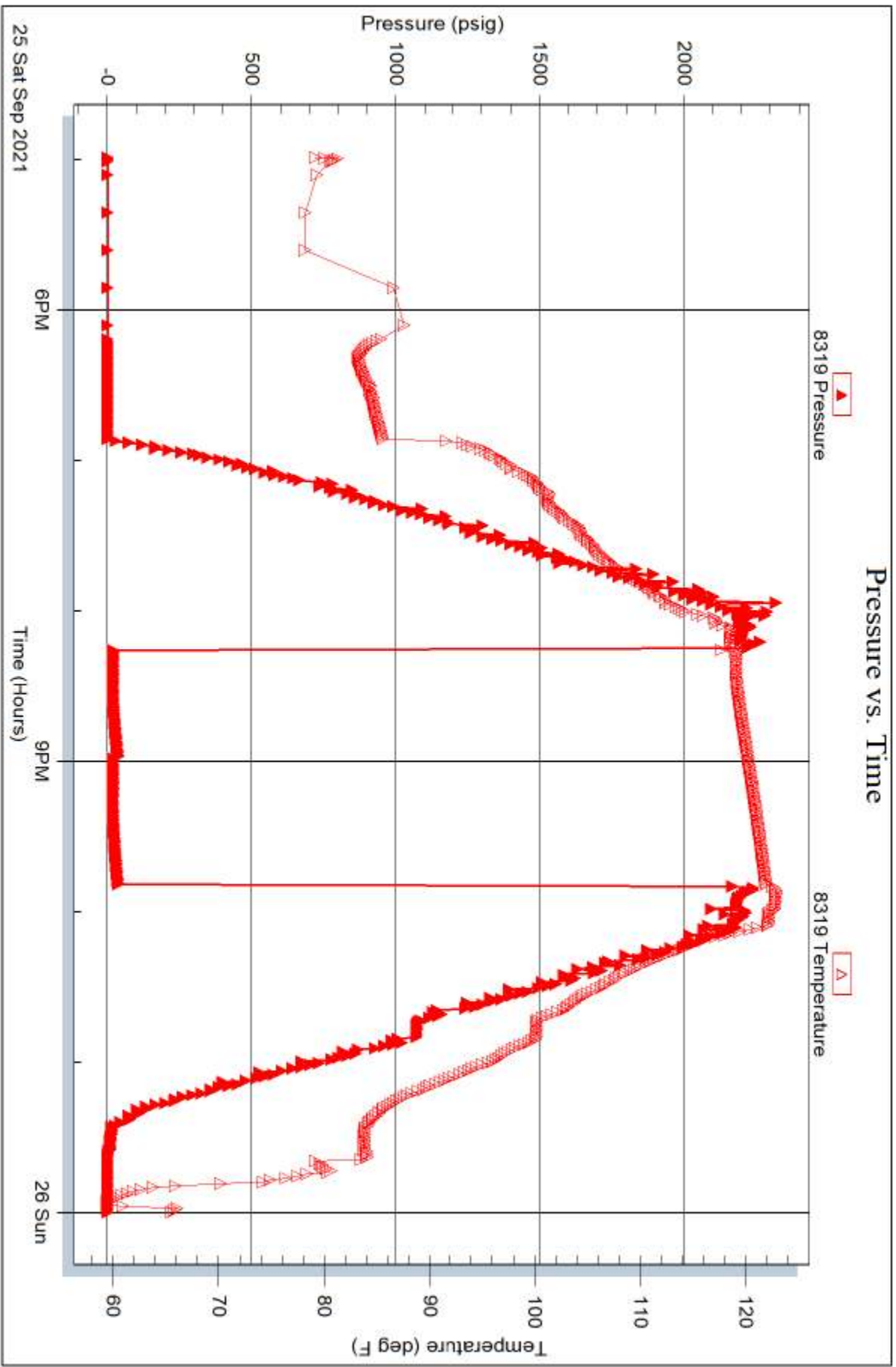


Serial #: 8319

Outside Shakespeare Oil Co

Terry 1-19

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 66968

Printed: 2021.09.26 @ 08:24:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 66969

DST#: 7

ATTN: Vern Schrag

Test Start: 2021.09.26 @ 15:18:00

GENERAL INFORMATION:

Formation: **LKC-K - Middle Cre**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:04:15

Time Test Ended: 21:23:15

Test Type: Conventional Straddle (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4188.00 ft (KB) To 4254.00 ft (KB) (TVD)

Reference Elevations: 2748.00 ft (KB)

Total Depth: 4584.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8319 Outside

Press@RunDepth: 80.77 psig @ 4189.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.26 End Date: 2021.09.26

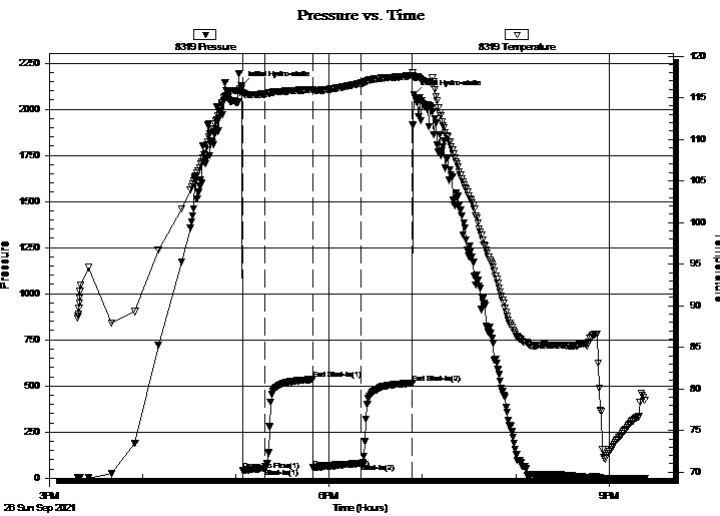
Last Calib.: 2021.09.26

Start Time: 15:18:05 End Time: 21:23:14

Time On Btm: 2021.09.26 @ 17:03:30

Time Off Btm: 2021.09.26 @ 18:54:30

TEST COMMENT: IF: 6.6" blow .
IS: No return
FF: 13.2" blow .
FS: Surface return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2126.17	116.08	Initial Hydro-static
1	43.11	115.58	Open To Flow (1)
15	53.80	115.44	Shut-In(1)
46	535.25	115.99	End Shut-In(1)
47	55.24	115.87	Open To Flow (2)
77	80.77	116.72	Shut-In(2)
110	515.36	117.63	End Shut-In(2)
111	2080.53	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gocm 20g 20o 60m	0.70
60.00	go 20g 80o	0.84
0.00	150' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

19-17s-28w Lane Ks

202 W Main St
Salem, IL 62881

Terry 1-19

Job Ticket: 66969

DST#: 7

ATTN: Vern Schrag

Test Start: 2021.09.26 @ 15:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
50.00	gocm 20g 20o 60m	0.701
60.00	go 20g 80o	0.842
0.00	150' GIP	0.000

Total Length: 110.00 ft

Total Volume: 1.543 bbl

Num Fluid Samples: 0

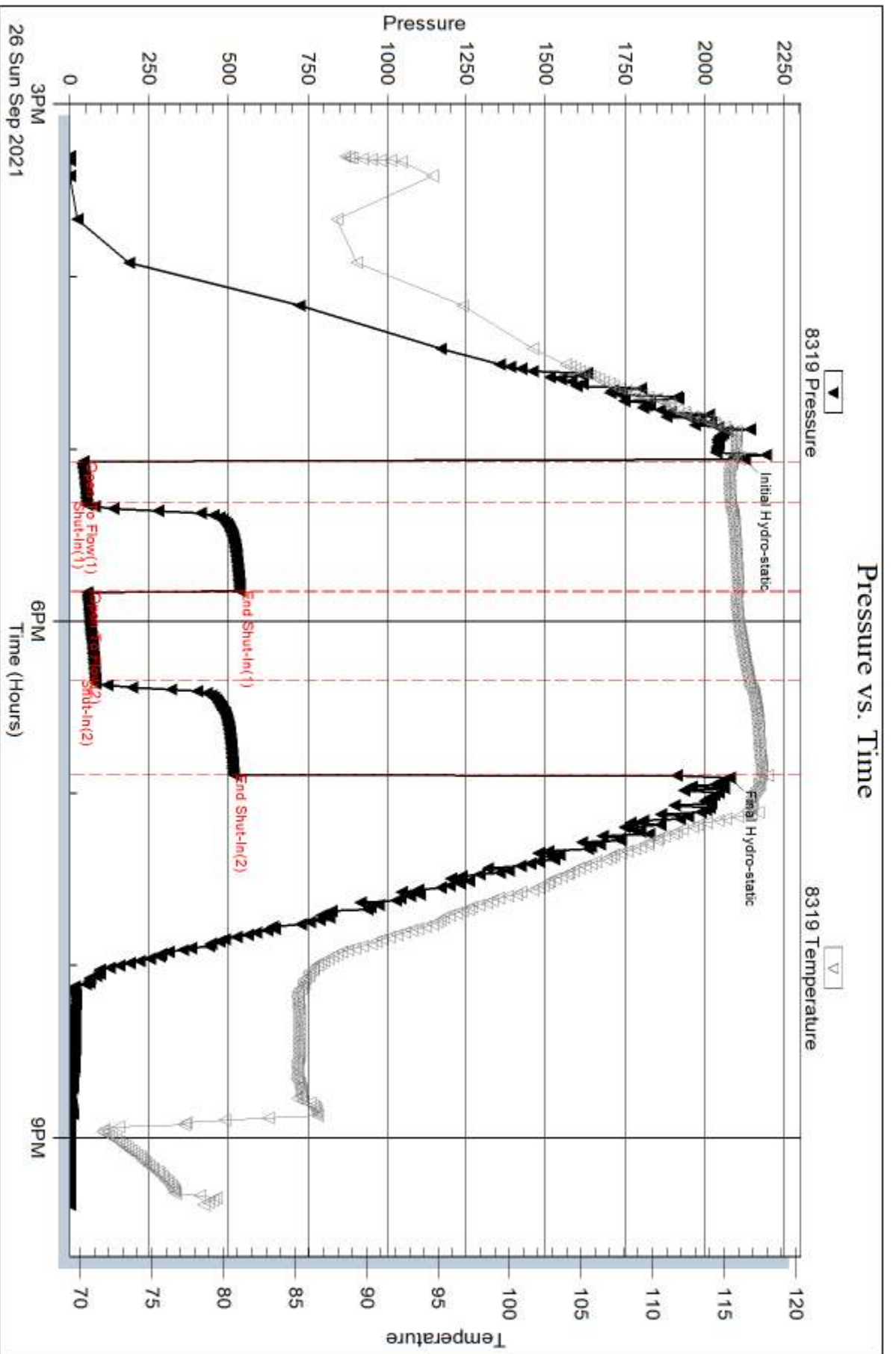
Num Gas Bombs: 0

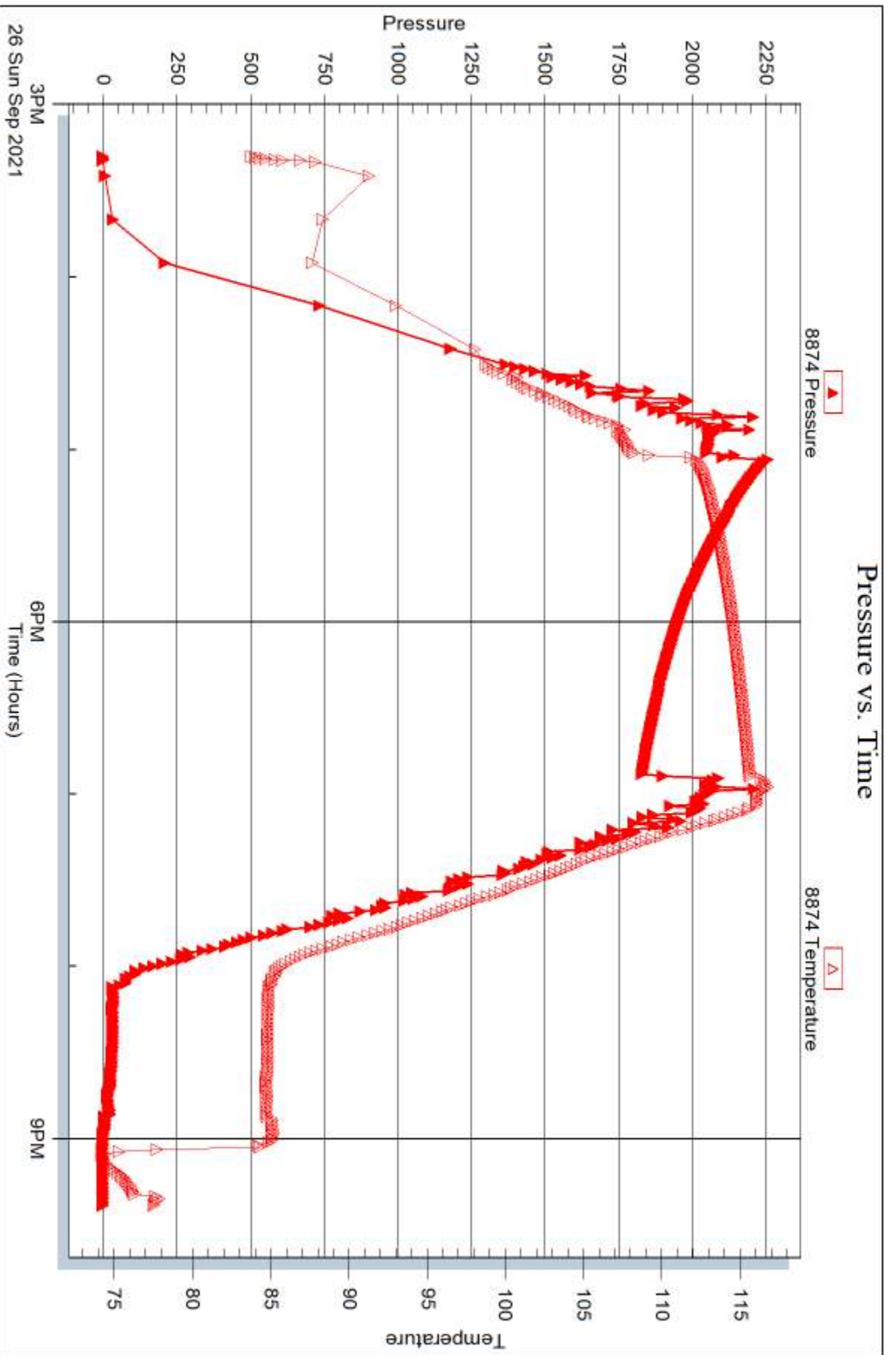
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



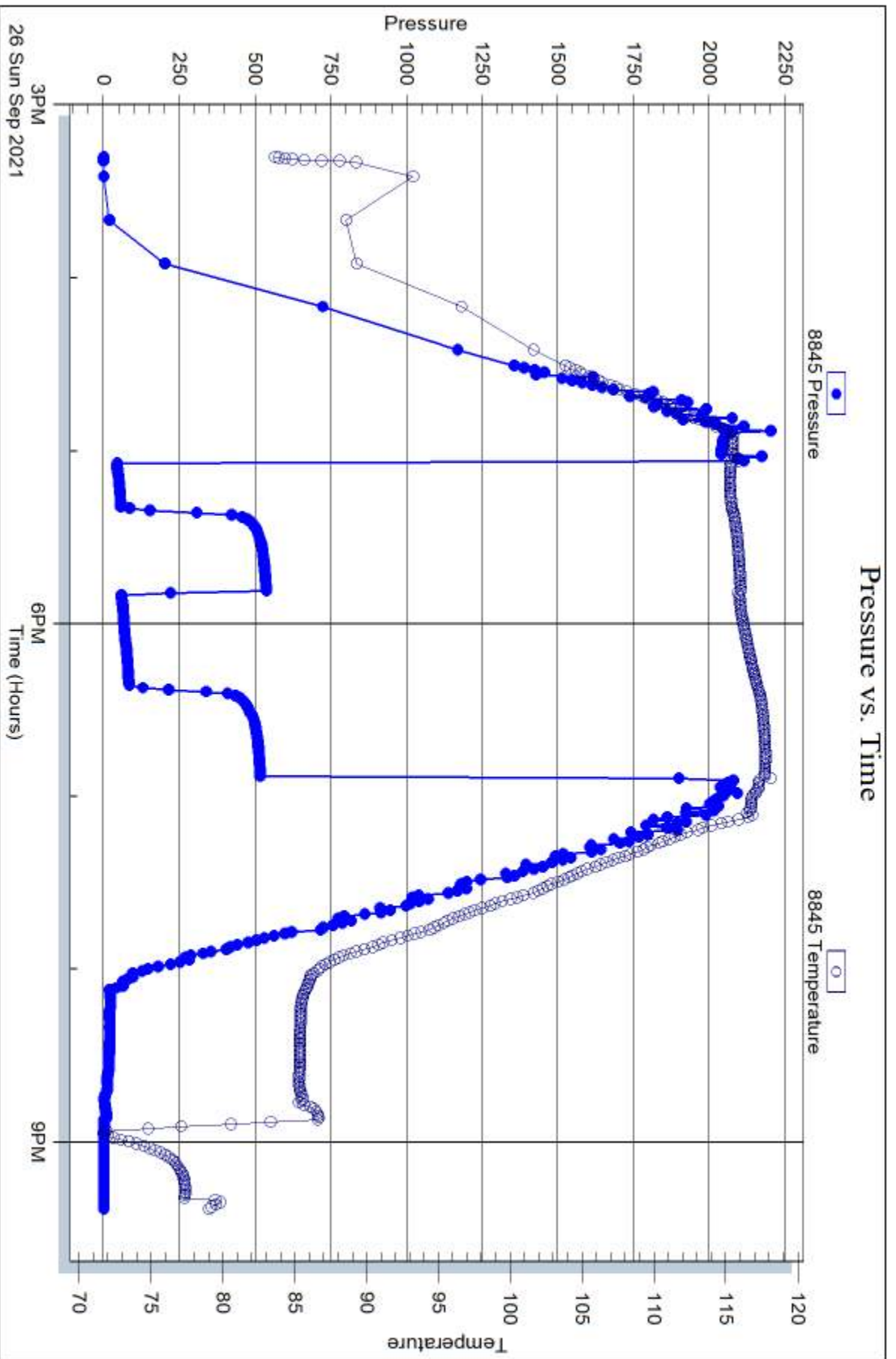


Serial #: 8845

Shakespeare Oil Co

Terry 1-19

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 66969

Printed: 2021.09.26 @ 22:01:45



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: **TERRY #1-19**
 Location: **NE SE NW SE SEC. 19-17S-28W**
 Licence Number: **API: 15-101-22658**
 Spud Date: **September 14, 2021**
 Surface Coordinates: **1910 FSL & 1450 FEL**

Region: **Lane Co., KS**
 Drilling Completed: **September 26, 2021**

Bottom Hole Coordinates: **2738'**
 Ground Elevation (ft): **2738'** K.B. Elevation (ft): **2748'**
 Logged Interval (ft): **3700'** To: **RTD** Total Depth (ft): **4580'**
 Formation: **D&A, Mississippi**
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

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", 411.58'; Kelly 40.00', Tool Joint 5.5" ; Bit: 7-7/8", JZ HA20-C, 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 @ 254', set @ 266'.

CIRCULATION SYSTEM:

Continental EMSCO D-350, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Reid Atkins.

DRILL STEM TESTS:

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

OPEN HOLE LOGS:

DN (PE), DI (SP), ML, No Sonic; 5" detail LTD-3600; 2" DIL to surface casing; ELI Wireline Services, Hays, KS, Jason Cappellucci.

