

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

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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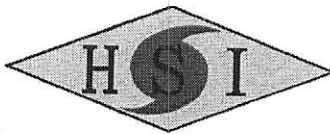












Customer	Chizum Oil	Lease & Well #	Luckert #1-13	Date	10/3/2021
Service District	Oakley KS	County & State	Thomas KS	Legals S/T/R	13-9S-36W
Job Type	PTA	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
29	Jesse J	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
208	Michael R	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
205	Jose	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP055	H-Plug	sack	240.00	\$2,808.00
FE290	8 5/8" Wooden Plug	ea	1.00	\$153.00
M015	Light Equipment Mileage	mi	40.00	\$72.00
M010	Heavy Equipment Mileage	mi	40.00	\$144.00
M020	Ton Mileage	tm	414.00	\$558.90
D012	Depth Charge: 1001'-2000'	job	1.00	\$1,350.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$5,085.90
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		Sale Tax:	\$ -
		Total:	\$ 5,085.90
		HSI Representative: <i>Jesse Jones</i>	

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**





**CEMENT TREATMENT REPORT**

Customer: Chizum Oil	Well: Luckert #1-13	Ticket: WP-1941
City, State: Oakley Ks	County: Thomas KS	Date: 10/3/2021
Field Rep: Jon Nicodemas	S-T-R: 13-9S-36W	Service: PTA

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	4820 ft
Casing Size:	8 5/8 in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	54.4 bbls

Calculated Slurry - Lead	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	2850 ft
Annular Volume:	115.7 bbls
Excess:	
Total Slurry:	60.6 bbls
Total Sacks:	240 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
8:00p.m.			-	-	Arrival
8:05p.m.				-	Safety meeting
8:10p.m.				-	Rig up
8:24p.m.	4.2	400.0	5.0	5.0	H2O ahead
8:33p.m.	4.1	450.0	12.5	17.5	Mixed 50 sks @ 2850' @ 13.8 ppg
8:36p.m.	4.3	300.0	5.0	22.5	Displaced H2O with truck
8:41p.m.		250.0		22.5	Displaced with Rig 1:30 minutes
8:44p.m.				22.5	Pull pipe to 1875'
9:36p.m.	4.3	275.0	5.0	27.5	H2O ahead
9:41p.m.	5.0	475.0	25.1	52.6	Mixed 100 sks @ 1875' @ 13.8 ppg
9:48p.m.	6.0	450.0	17.8	70.4	Displaced H2O
9:55p.m.					Pull pipe to 350'
10:53p.m.	4.8	250.0	5.0		H2O ahead
10:55p.m.	4.0	450.0	12.5		Mixed 50 sks @ 350' @ 13.8 ppg
10:57p.m.	2.0	150.0	0.5		Displaced H2O
11:01p.m.					Pull pipe to surface
12:18a.m.	2.5	150.0	7.5		Rat Hole 30 sks @ 13.8 ppg
12:21a.m.	3.0	175.0	2.5		Top 40' 10 sks @ 13.8 ppg
12:30a.m.					Plug down
12:32a.m.					Wash up
12:36a.m.					Rig down
1:05a.m.					Depart Location

CREW		UNIT	SUMMARY		
Cementer:	Jesse J	29	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael R	208	4.0 bpm	315 psi	98 bbls
Bulk #1:	Jose	205			
Bulk #2:					

ftv: 13-2021/01/19  
mplv: 87-2021/01/11

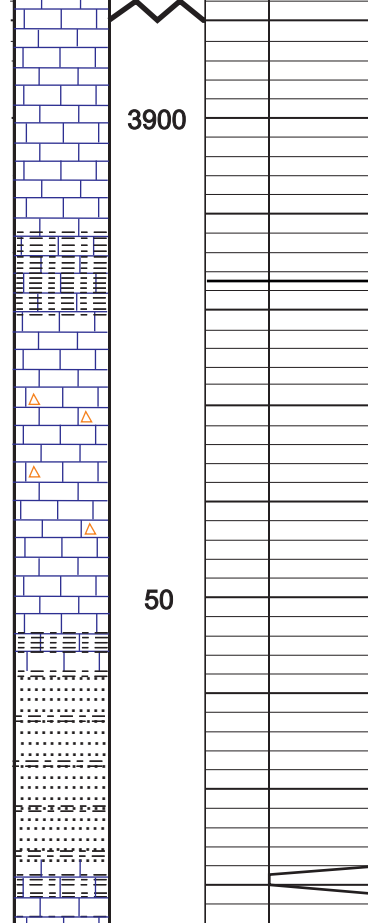


**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY **CHIZUM OIL, LLC** ELEVATIONS  
 LEASE **Lockett #1-13** KG 3371'  
 FIELD **Wildcat** DF \_\_\_\_\_  
 LOCATION **5307 FMS, 400' FEL** GL 3366'  
 SEC **13 T15S 9S** ROE **36W**  
 COUNTY **Thomas** STATE **Kansas** Measurements Are All From **KB**  
 CONTRACTOR **Murfin Drilling Co, Inc Rig 110**  
 SPUD **9-22-21** COMP **10-2-21**  
 RTD **4820'** LTD **None** CASING \_\_\_\_\_  
 MUD UP **3500'** TYPE MUD **Chemical** CONDUCTION **N/A**  
 SURFACE **8-5/8" @ 300'**  
 SAMPLES SAVED FROM **3900'** to RTD PRODUCTION **None**  
 DRILLING TIME KEPT FROM **3900'** to RTD ELECTRICAL SURVEYS \_\_\_\_\_  
 SAMPLES EXAMINED FROM **3900'** to RTD \_\_\_\_\_  
 GEOLOGICAL SUPERVISION FROM **3800'** to RTD \_\_\_\_\_  
 GEOLOGIST ON WELL **Tim Priest** \_\_\_\_\_

FORMATION TOPS

Anyhydrite	2828 (-543)
Heebner Shale	4120 (-749)
Lansing	4160 (-789)
Stark	4383 (-1012)
B/K.C.	4440 (-1069)
Fort Scott	4627 (-1256)
Cherokee Shale	4660 (-1299)
Mississippian	4809 (-1438)



REMARKS Due to the negative DSTs, it was decided to plug and abandon the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-193-21092

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## DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

### **Luckert #1-13**

#### **13-9s-36w Thomas,KS**

Start Date: 2021.09.27 @ 06:40:39

End Date: 2021.09.27 @ 12:38:39

Job Ticket #: 67387                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.10.04 @ 13:43:05









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67387

**DST#: 1**

ATTN: Tim Priest

Test Start: 2021.09.27 @ 06:40:39

## Tool Information

Drill Pipe:	Length: 4039.00 ft	Diameter: 3.80 inches	Volume: 56.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 57.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4237.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4213.00	
Shut In Tool	5.00			4218.00	
Hydraulic tool	5.00			4223.00	
EM Tool	3.00			4226.00	
Safety Joint	2.00			4228.00	
Packer	5.00			4233.00	25.00 Bottom Of Top Packer
Packer	4.00			4237.00	
Stubb	1.00			4238.00	
Recorder	0.00	8790	Inside	4238.00	
Recorder	0.00	8674	Outside	4238.00	
Perforations	19.00			4257.00	
Bullnose	3.00			4260.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67387

**DST#: 1**

ATTN: Tim Priest

Test Start: 2021.09.27 @ 06:40:39

## 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: 66.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	mud oil spots 100%m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbf

Num Fluid Samples: 0

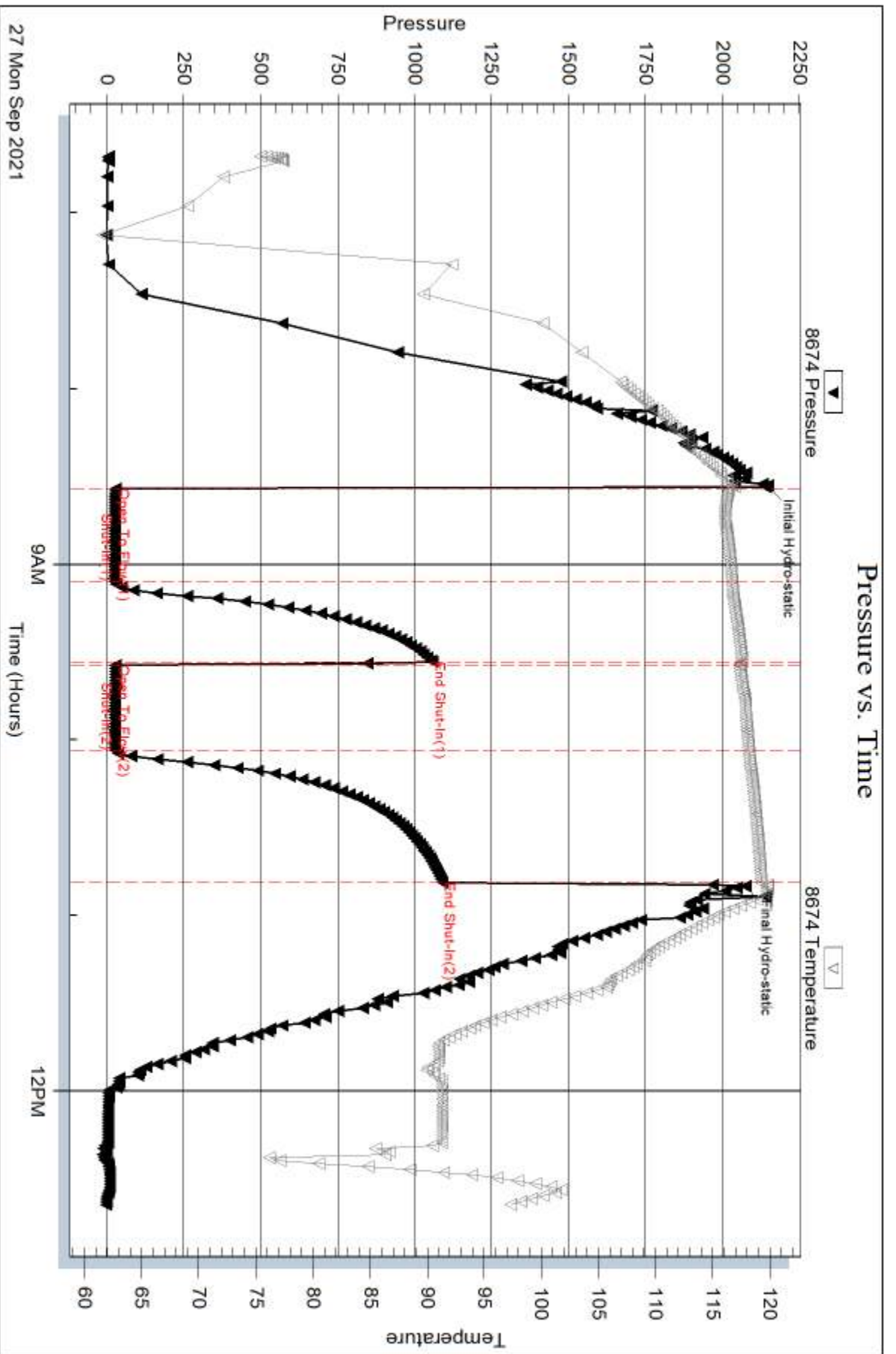
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





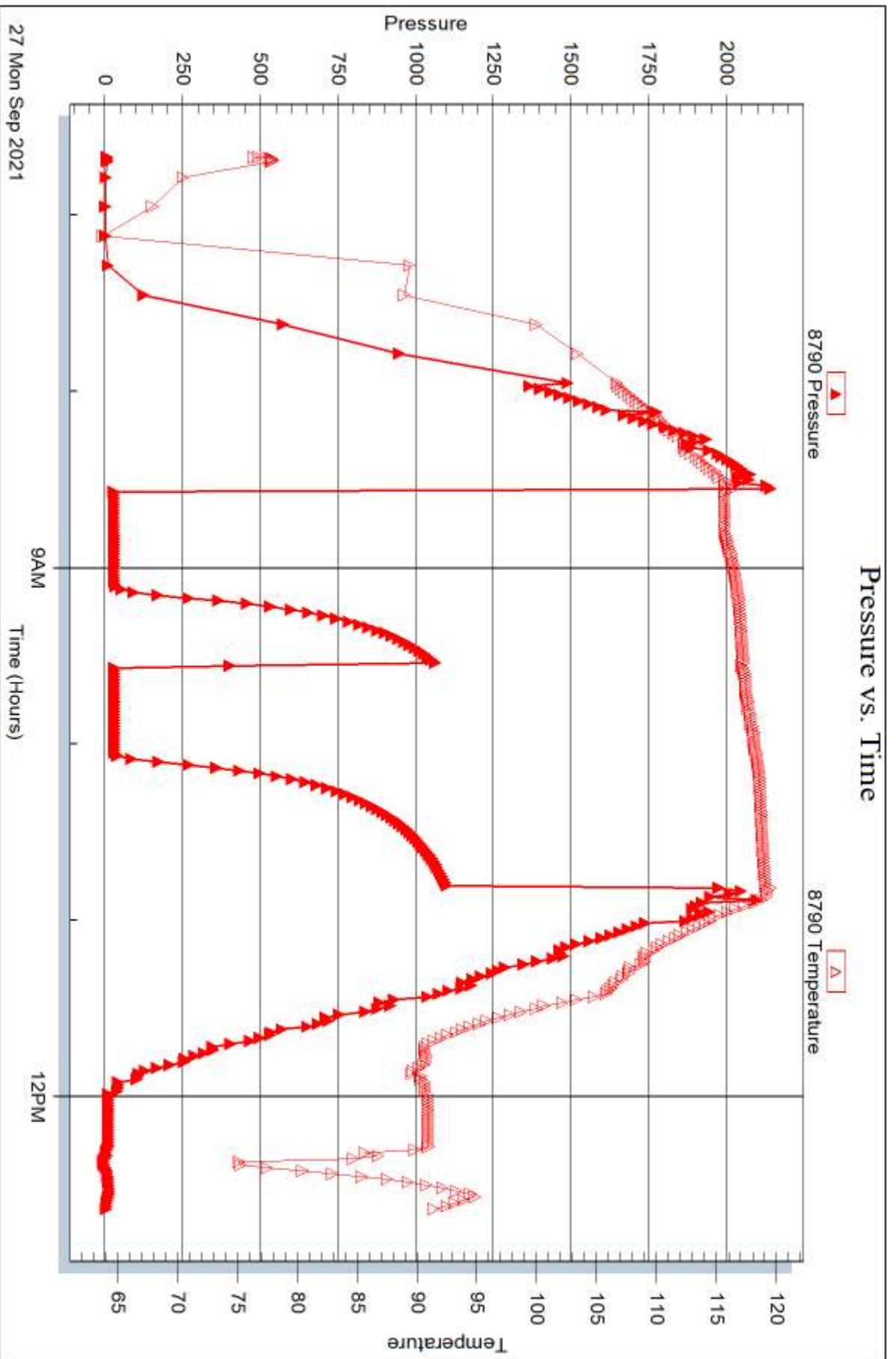
Serial #: 8790

Inside

Chizum Oil LLC

Luckert #1-13

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 67387

Printed: 2021.10.04 @ 13:43:06



## DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

### **Luckert #1-13**

#### **13-9s-36w Thomas,KS**

Start Date: 2021.09.28 @ 13:52:13

End Date: 2021.09.28 @ 21:39:13

Job Ticket #: 67388                      DST #: 2

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

Printed: 2021.10.04 @ 13:42:36





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC  
 PO Box 75615  
 Wichita, KS 67211  
 ATTN: Tim Priest

**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
 Job Ticket: 67388 **DST#: 2**  
 Test Start: 2021.09.28 @ 13:52:13

## GENERAL INFORMATION:

Formation: **LKC H - J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:38:13  
 Time Test Ended: 21:39:13  
 Interval: **4297.00 ft (KB) To 4385.00 ft (KB) (TVD)**  
 Total Depth: 4385.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3373.00 ft (KB)  
 3368.00 ft (CF)  
 KB to GR/CF: 5.00 ft

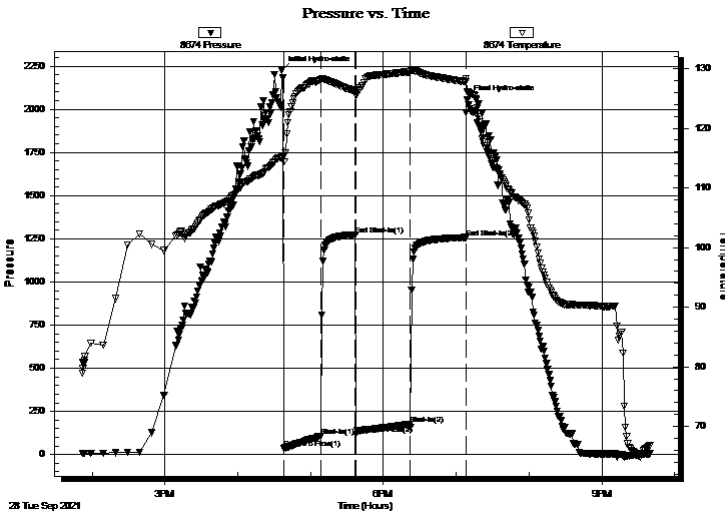
## Serial #: 8674

Outside

Press@RunDepth: 173.63 psig @ 4298.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.09.28 End Date: 2021.09.28 Last Calib.: 2021.09.28  
 Start Time: 13:52:18 End Time: 21:39:12 Time On Btm: 2021.09.28 @ 16:36:13  
 Time Off Btm: 2021.09.28 @ 19:09:13

TEST COMMENT: IF: 3/4" blow built to 7"  
 IS: No return.  
 FF: 1/4" blow built to 7"  
 FS: No return. 30-30-45-45

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.24	115.27	Initial Hydro-static
2	35.16	114.37	Open To Flow (1)
32	106.64	128.14	Shut-In(1)
61	1274.24	126.21	End Shut-In(1)
61	118.51	125.46	Open To Flow (2)
106	173.63	129.45	Shut-In(2)
152	1257.63	127.79	End Shut-In(2)
153	2056.78	126.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
291.00	mcw 95%w 5%m	2.46

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Chizum Oil LLC  
 PO Box 75615  
 Wichita, KS 67211  
 ATTN: Tim Priest

**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
 Job Ticket: 67388 **DST#: 2**  
 Test Start: 2021.09.28 @ 13:52:13

**GENERAL INFORMATION:**

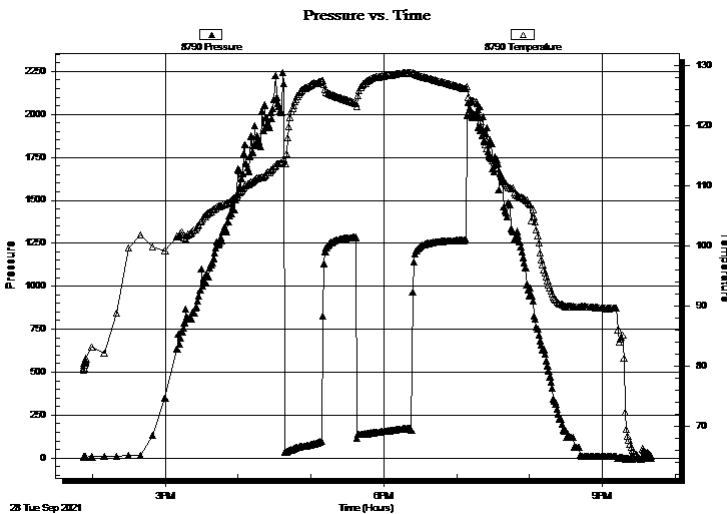
Formation: **LKC H - J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:38:13  
 Time Test Ended: 21:39:13  
**Interval: 4297.00 ft (KB) To 4385.00 ft (KB) (TVD)**  
 Total Depth: 4385.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3373.00 ft (KB)  
 3368.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8790 Inside**

Press@RunDepth: psig @ 4298.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.09.28 End Date: 2021.09.28 Last Calib.: 2021.09.28  
 Start Time: 13:52:50 End Time: 21:39:44 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: 3/4" blow built to 7"  
 IS: No return.  
 FF: 1/4" blow built to 7"  
 FS: No return. 30-30-45-45

**PRESSURE SUMMARY**



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

**Recovery**

Length (ft)	Description	Volume (bbl)
291.00	mcw 95%w 5%m	2.46

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67388

**DST#: 2**

ATTN: Tim Priest

Test Start: 2021.09.28 @ 13:52:13

## Tool Information

Drill Pipe:	Length: 4101.00 ft	Diameter: 3.80 inches	Volume: 57.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 58.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4297.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4273.00	
Shut In Tool	5.00			4278.00	
Hydraulic tool	5.00			4283.00	
EM Tool	3.00			4286.00	
Safety Joint	2.00			4288.00	
Packer	5.00			4293.00	25.00 Bottom Of Top Packer
Packer	4.00			4297.00	
Stubb	1.00			4298.00	
Recorder	0.00	8790	Inside	4298.00	
Recorder	0.00	8674	Outside	4298.00	
Perforations	19.00			4317.00	
Change Over Sub	1.00			4318.00	
Drill Pipe	63.00			4381.00	
Change Over Sub	1.00			4382.00	
Bullnose	3.00			4385.00	88.00 Bottom Packers & Anchor

**Total Tool Length: 113.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67388

**DST#: 2**

ATTN: Tim Priest

Test Start: 2021.09.28 @ 13:52:13

## 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:

59000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
291.00	mcw 95%w 5%m	2.460

Total Length: 291.00 ft      Total Volume: 2.460 bbl

Num Fluid Samples: 0

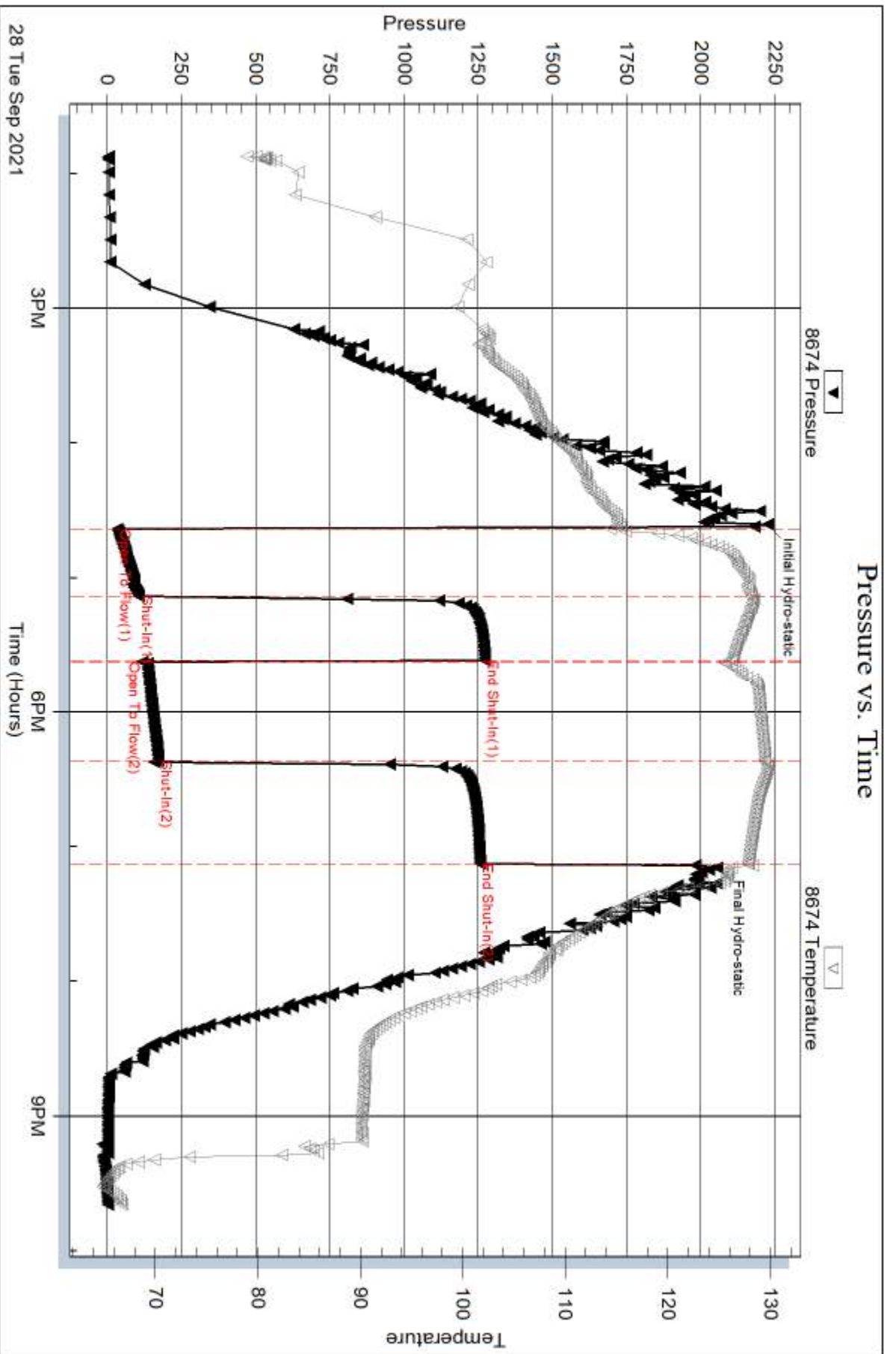
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .14@65=59000



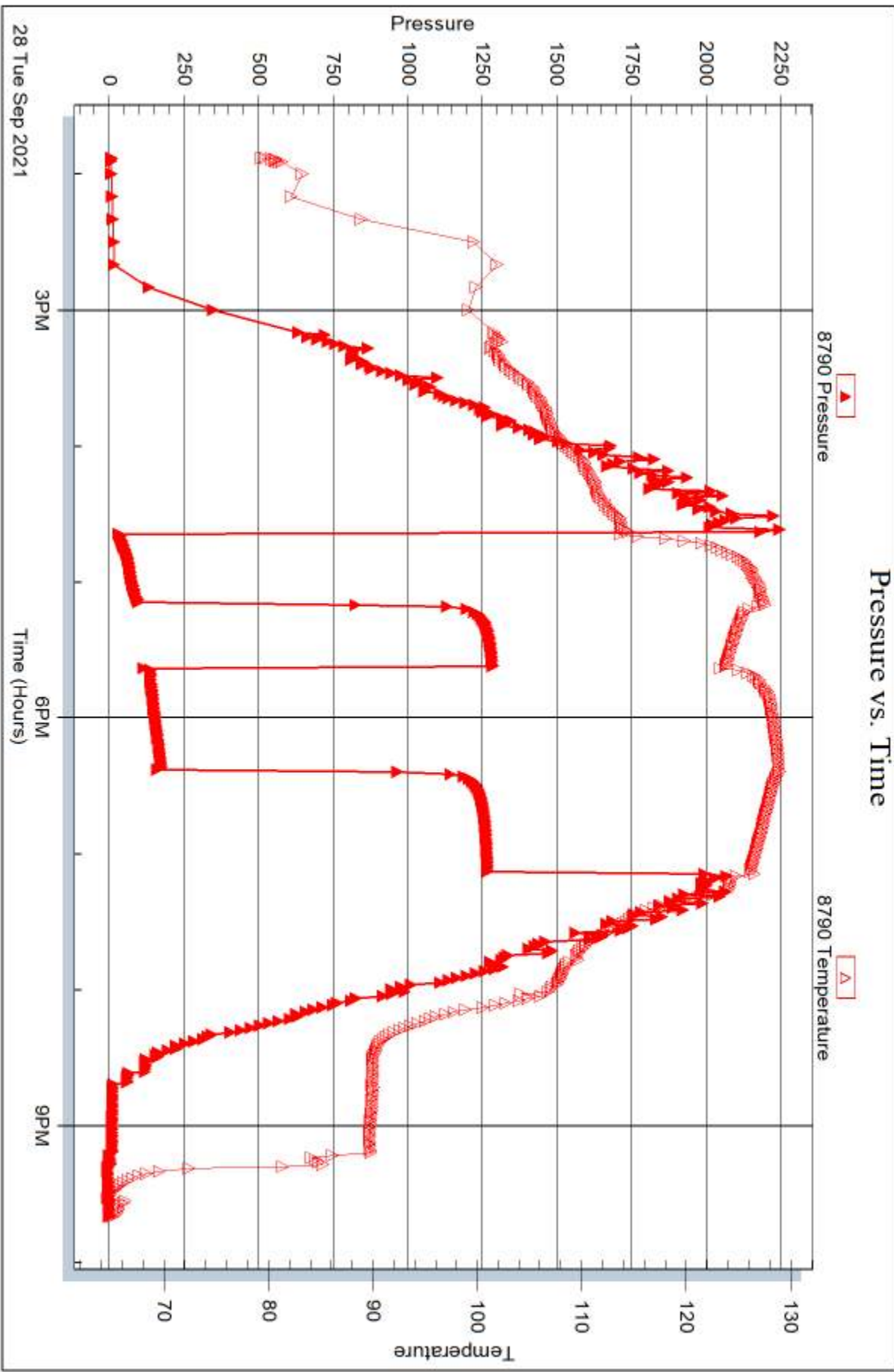
Serial #: 8790

Inside

Chizum Oil LLC

Luckert #1-13

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 67388

Printed: 2021.10.04 @ 13:42:39





## DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

### **Luckert #1-13**

#### **13-9s-36w Thomas,KS**

Start Date: 2021.09.29 @ 07:50:28

End Date: 2021.09.29 @ 14:50:28

Job Ticket #: 67389                      DST #: 3

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

Printed: 2021.10.04 @ 13:41:44



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC  
PO Box 75615  
Wichita, KS 67211  
ATTN: Tim Priest

**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
Job Ticket: 67389 **DST#: 3**  
Test Start: 2021.09.29 @ 07:50:28

## GENERAL INFORMATION:

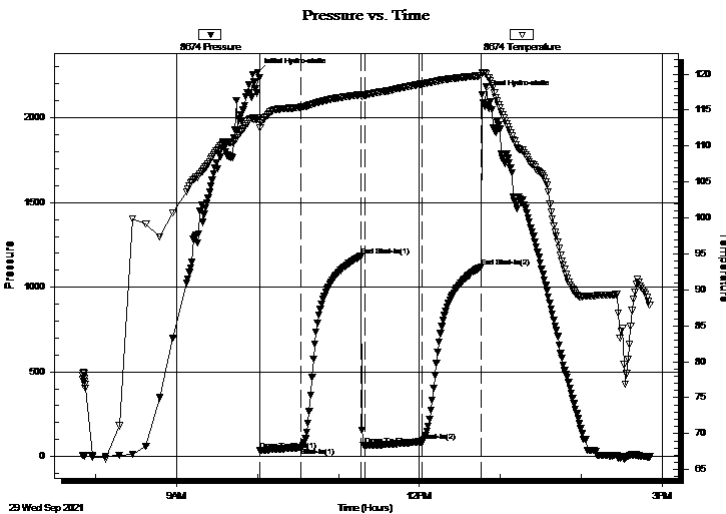
Formation: **LKC K-L**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:01:58  
Time Test Ended: 14:50:28  
Interval: **4380.00 ft (KB) To 4440.00 ft (KB) (TVD)**  
Total Depth: 4440.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3373.00 ft (KB)  
3368.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8674 Outside

Press@RunDepth: 87.70 psig @ 4381.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.09.29 End Date: 2021.09.29 Last Calib.: 2021.09.29  
Start Time: 07:50:33 End Time: 14:50:27 Time On Btm: 2021.09.29 @ 10:00:28  
Time Off Btm: 2021.09.29 @ 12:46:28

TEST COMMENT: IF: 1/4" blow built to 2 1/2"  
IS: No return.  
FF: 1/4" blow built to 3 3/4"  
FS: No return. 30-45-45-45

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.30	113.87	Initial Hydro-static
2	37.11	112.54	Open To Flow (1)
32	55.50	115.41	Shut-In(1)
76	1182.07	117.14	End Shut-In(1)
79	64.47	117.07	Open To Flow (2)
122	87.70	118.64	Shut-In(2)
165	1119.55	119.79	End Shut-In(2)
166	2137.05	120.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 20%o 80%m	0.30
60.00	go 10%g 90%o	0.30
30.00	oil 100%o	0.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC  
 PO Box 75615  
 Wichita, KS 67211  
 ATTN: Tim Priest

**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
 Job Ticket: 67389 **DST#: 3**  
 Test Start: 2021.09.29 @ 07:50:28

### GENERAL INFORMATION:

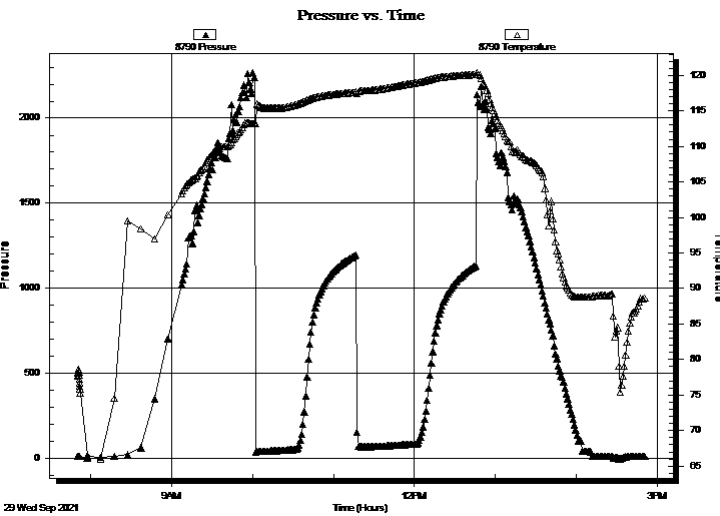
Formation: <b>LKC K-L</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Brandon Turley
Time Tool Opened: 10:01:58	Unit No: 79
Time Test Ended: 14:50:28	
<b>Interval: 4380.00 ft (KB) To 4440.00 ft (KB) (TVD)</b>	Reference Elevations: 3373.00 ft (KB)
Total Depth: 4440.00 ft (KB) (TVD)	3368.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Fair	KB to GR/CF: 5.00 ft

### Serial #: 8790

Inside

Press@RunDepth: psig @ 4381.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.09.29 End Date: 2021.09.29	Last Calib.: 2021.09.29
Start Time: 07:50:32 End Time: 14:50:26	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF: 1/4" blow built to 2 1/2"  
 IS: No return.  
 FF: 1/4" blow built to 3 3/4"  
 FS: No return. 30-45-45-45



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 20%o 80%m	0.30
60.00	go 10%g 90%o	0.30
30.00	oil 100%o	0.15

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67389

**DST#: 3**

ATTN: Tim Priest

Test Start: 2021.09.29 @ 07:50:28

## Tool Information

Drill Pipe:	Length: 4197.00 ft	Diameter: 3.80 inches	Volume: 58.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4380.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
EM Tool	3.00			4369.00	
Safety Joint	2.00			4371.00	
Packer	5.00			4376.00	25.00 Bottom Of Top Packer
Packer	4.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	8790	Inside	4381.00	
Recorder	0.00	8674	Outside	4381.00	
Perforations	22.00			4403.00	
Change Over Sub	1.00			4404.00	
Drill Pipe	32.00			4436.00	
Change Over Sub	1.00			4437.00	
Bullnose	3.00			4440.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67389

**DST#: 3**

ATTN: Tim Priest

Test Start: 2021.09.29 @ 07:50:28

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 20%o 80%m	0.295
60.00	go 10%g 90%o	0.295
30.00	oil 100%o	0.148

Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

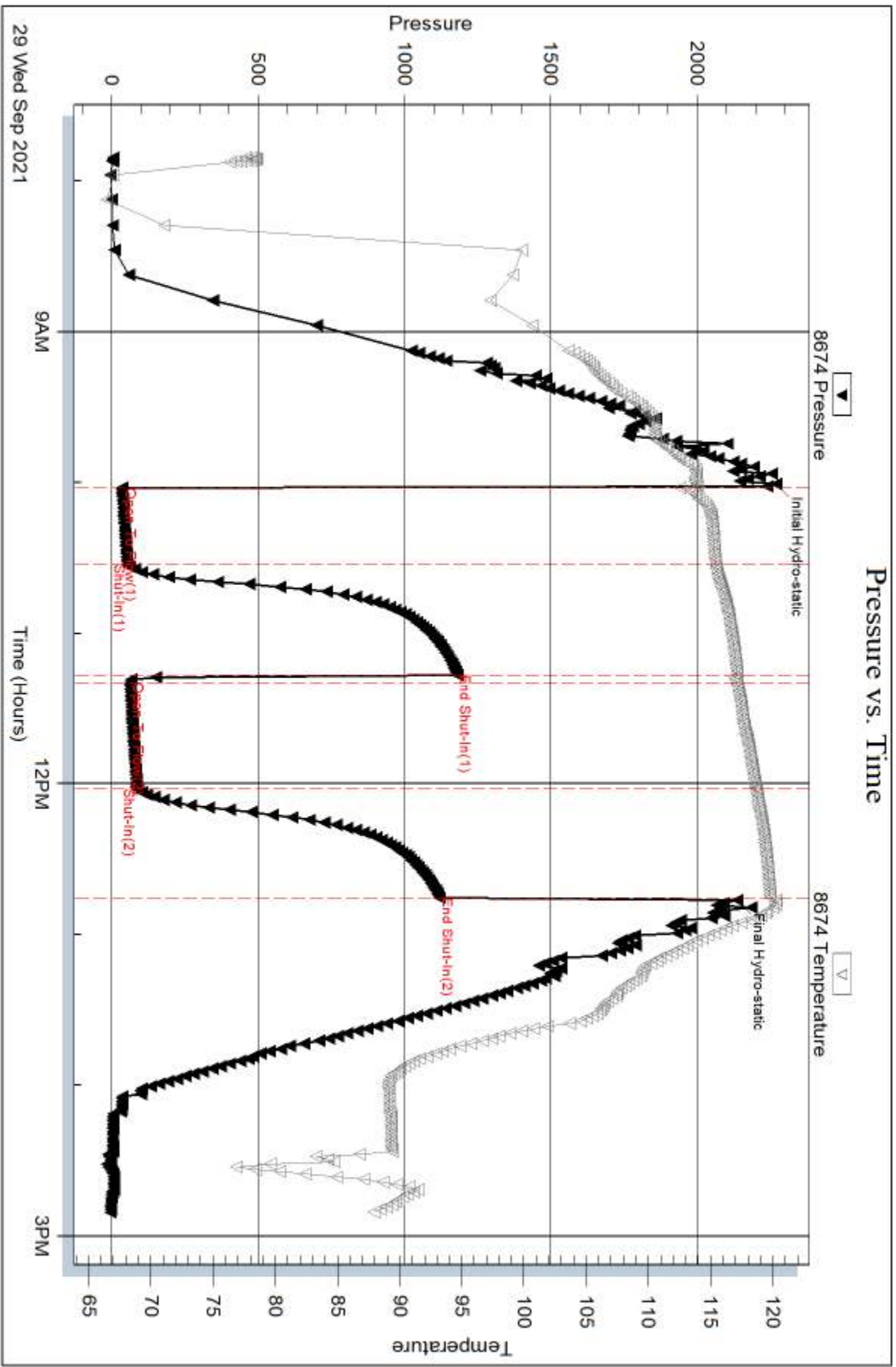
Recovery Comments: 28@90=25

Serial #: 8674

Outside Chizum Oil LLC

Luckert #1-13

DST Test Number: 3



29 Wed Sep 2021

9AM

Time (Hours)

12PM

3PM

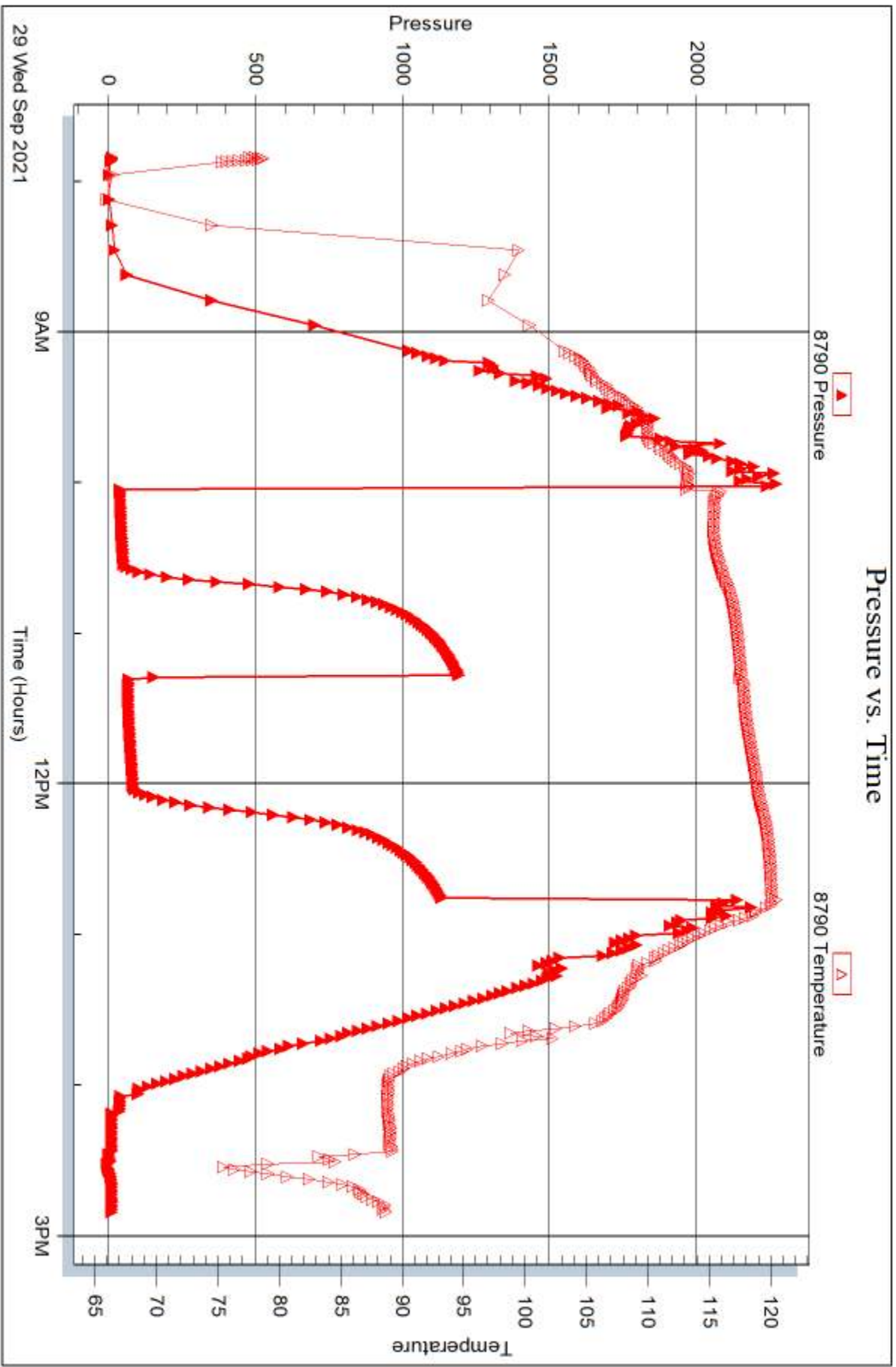
Serial #: 8790

Inside

Chizum Oil LLC

Luckert #1-13

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67389

Printed: 2021.10.04 @ 13:41:45





## DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

### **Luckert #1-13**

#### **13-9s-36w Thomas,KS**

Start Date: 2021.09.30 @ 11:30:59

End Date: 2021.09.30 @ 17:30:29

Job Ticket #: 67390                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.10.04 @ 13:41:10

Chizum Oil LLC  
13-9s-36w Thomas,KS  
Luckert #1-13  
DST # 4  
Pawnee  
2021.09.30



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC  
 PO Box 75615  
 Wichita, KS 67211  
 ATTN: Tim Priest

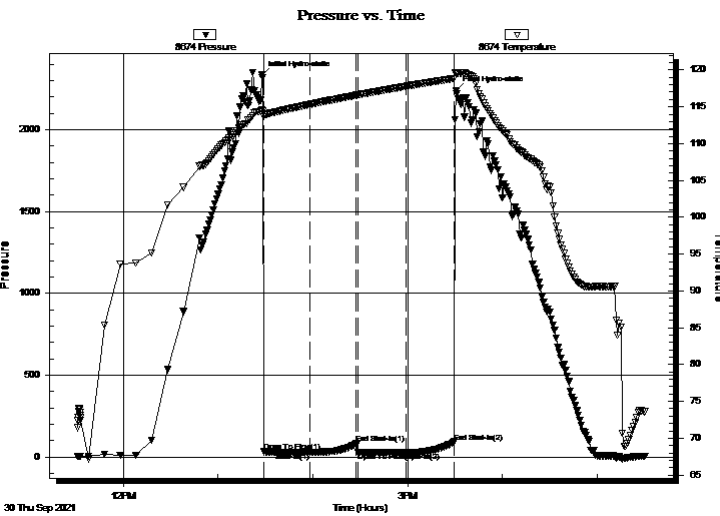
**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
 Job Ticket: 67390 **DST#: 4**  
 Test Start: 2021.09.30 @ 11:30:59

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:28:59  
 Time Test Ended: 17:30:29  
 Interval: **4545.00 ft (KB) To 4595.00 ft (KB) (TVD)**  
 Total Depth: 4595.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3373.00 ft (KB)  
 3368.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8674 Outside**  
 Press@RunDepth: 28.37 psig @ 4546.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.09.30 End Date: 2021.09.30 Last Calib.: 2021.09.30  
 Start Time: 11:31:04 End Time: 17:30:28 Time On Btm: 2021.09.30 @ 13:27:29  
 Time Off Btm: 2021.09.30 @ 15:30:29

**TEST COMMENT:** IF: Surface blow built to 1/4"  
 IS: No return.  
 FF: No blow.  
 FS: No return.30-30-03



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2333.77	114.54	Initial Hydro-static
2	32.73	113.69	Open To Flow (1)
31	28.57	115.32	Shut-In(1)
60	80.72	116.58	End Shut-In(1)
61	29.26	116.63	Open To Flow (2)
92	28.37	117.79	Shut-In(2)
122	91.61	118.85	End Shut-In(2)
123	2237.23	119.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 5%o 95%m	0.02

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Chizum Oil LLC  
 PO Box 75615  
 Wichita, KS 67211  
 ATTN: Tim Priest

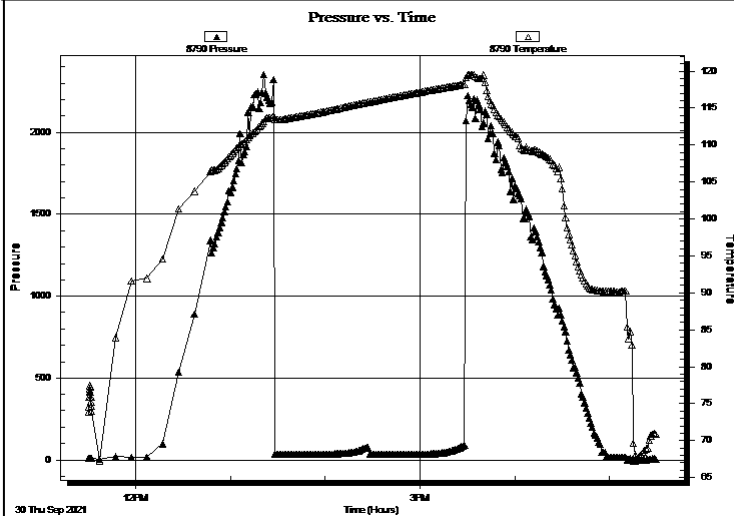
**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
 Job Ticket: 67390          **DST#: 4**  
 Test Start: 2021.09.30 @ 11:30:59

## GENERAL INFORMATION:

**Formation:** Pawnee  
**Deviated:** No Whipstock:                    ft (KB)  
**Time Tool Opened:** 13:28:59  
**Time Test Ended:** 17:30:29  
**Test Type:** Conventional Bottom Hole (Reset)  
**Tester:** Brandon Turley  
**Unit No:** 79  
**Interval:** 4545.00 ft (KB) To 4595.00 ft (KB) (TVD)  
**Total Depth:** 4595.00 ft (KB) (TVD)  
**Hole Diameter:** 7.88 inches **Hole Condition:** Fair  
**Reference Elevations:** 3373.00 ft (KB)  
 3368.00 ft (CF)  
**KB to GR/CF:** 5.00 ft

**Serial #: 8790**          **Inside**  
**Press@RunDepth:**                    psig @ 4546.00 ft (KB)          Capacity: 8000.00 psig  
**Start Date:** 2021.09.30          End Date: 2021.09.30          Last Calib.: 2021.09.30  
**Start Time:** 11:30:15          End Time: 17:29:39          Time On Btm:  
    Time Off Btm:

**TEST COMMENT:** IF: Surface blow built to 1/4"  
 IS: No return.  
 FF: No blow.  
 FS: No return.30-30-30-03



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 5% o 95% m	0.02

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67390

**DST#: 4**

ATTN: Tim Priest

Test Start: 2021.09.30 @ 11:30:59

## Tool Information

Drill Pipe:	Length: 4356.00 ft	Diameter: 3.80 inches	Volume: 61.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4545.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4521.00	
Shut In Tool	5.00			4526.00	
Hydraulic tool	5.00			4531.00	
EM Tool	3.00			4534.00	
Safety Joint	2.00			4536.00	
Packer	5.00			4541.00	25.00 Bottom Of Top Packer
Packer	4.00			4545.00	
Stubb	1.00			4546.00	
Recorder	0.00	8790	Inside	4546.00	
Recorder	0.00	8674	Outside	4546.00	
Perforations	12.00			4558.00	
Change Over Sub	1.00			4559.00	
Drill Pipe	32.00			4591.00	
Change Over Sub	1.00			4592.00	
Bullnose	3.00			4595.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67390

**DST#: 4**

ATTN: Tim Priest

Test Start: 2021.09.30 @ 11:30:59

### 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:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 5%o 95%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

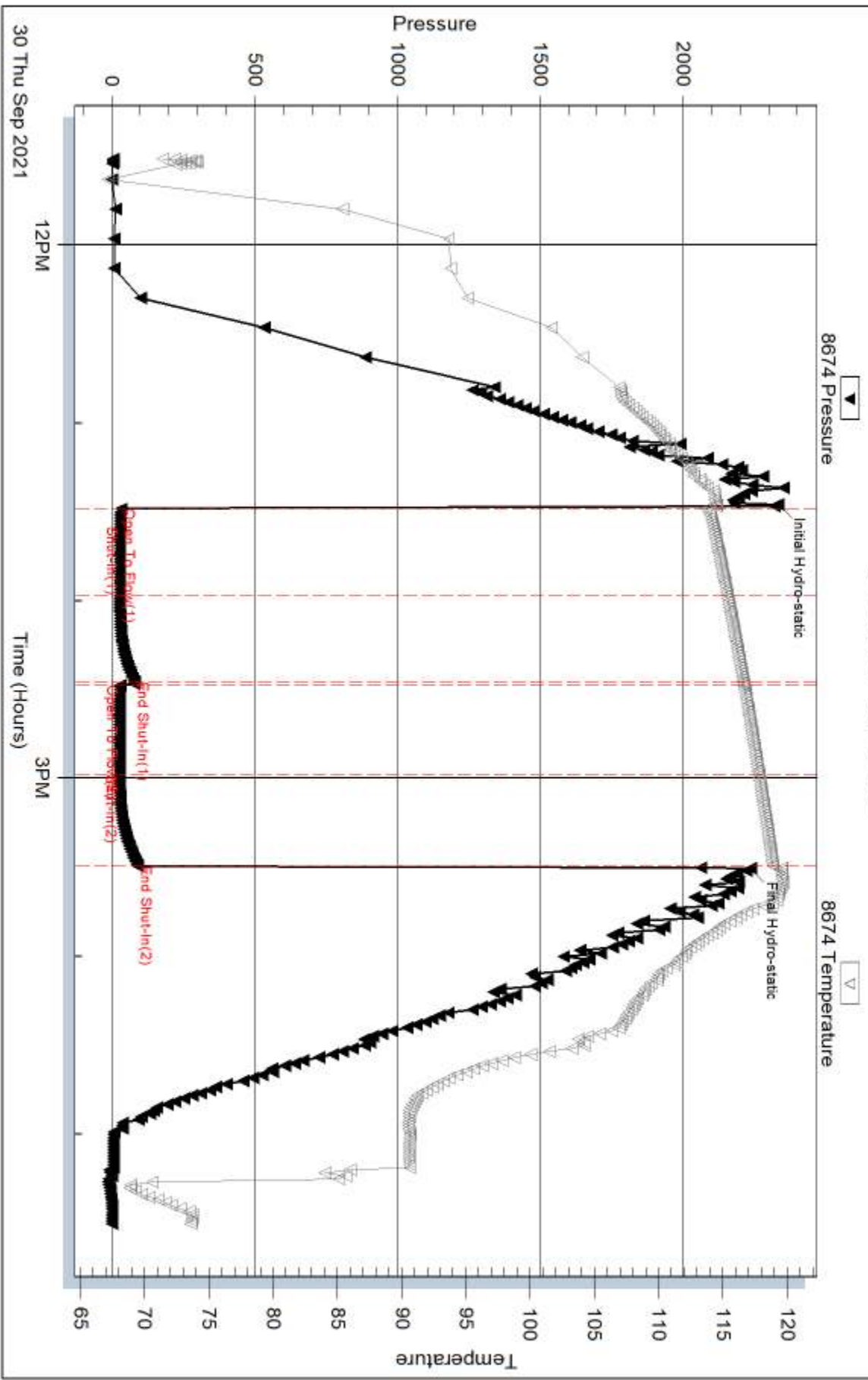
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



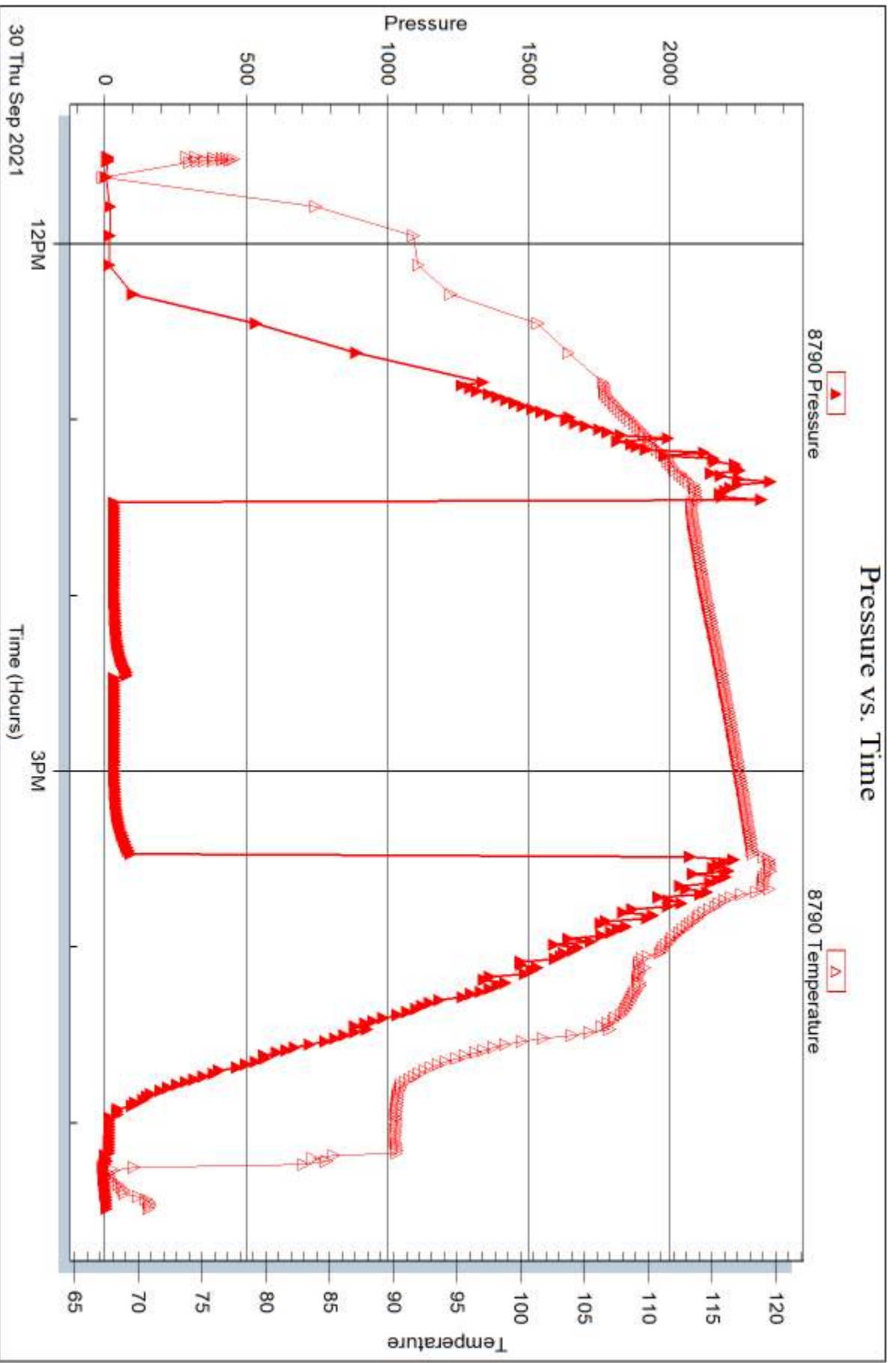
Serial #: 8790

Inside

Chizum Oil LLC

Luckert #1-13

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 67390

Printed: 2021.10.04 @ 13:41:11



## DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

### **Luckert #1-13**

#### **13-9s-36w Thomas,KS**

Start Date: 2021.10.01 @ 06:30:03

End Date: 2021.10.01 @ 12:33:33

Job Ticket #: 67391                      DST #: 5

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

Printed: 2021.10.04 @ 13:40:19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC  
PO Box 75615  
Wichita, KS 67211  
ATTN: Tim Priest

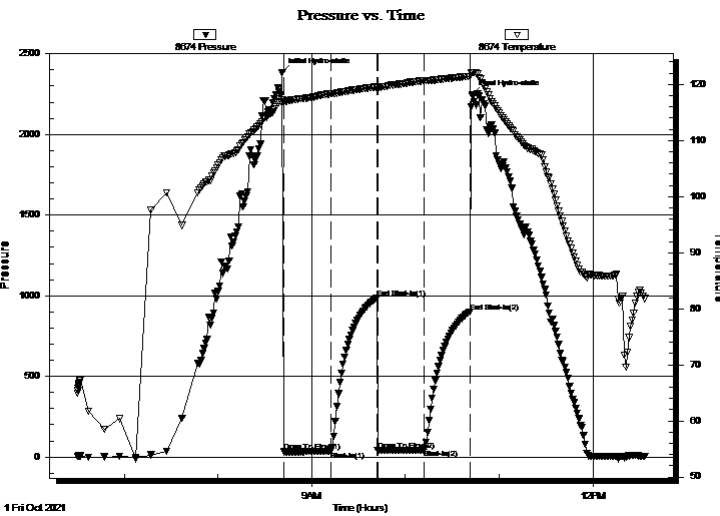
**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
Job Ticket: 67391 **DST#: 5**  
Test Start: 2021.10.01 @ 06:30:03

## GENERAL INFORMATION:

Formation: **Cherokee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:42:03  
Time Test Ended: 12:33:33  
Interval: **4598.00 ft (KB) To 4690.00 ft (KB) (TVD)**  
Total Depth: 4690.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3373.00 ft (KB)  
3368.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8674 Outside**  
Press@RunDepth: 44.08 psig @ 4599.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.10.01 End Date: 2021.10.01 Last Calib.: 2021.10.01  
Start Time: 06:30:08 End Time: 12:33:32 Time On Btm: 2021.10.01 @ 08:41:03  
Time Off Btm: 2021.10.01 @ 10:42:33

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2384.67	117.19	Initial Hydro-static
1	33.28	116.75	Open To Flow (1)
31	34.97	118.32	Shut-In(1)
61	987.49	119.56	End Shut-In(1)
61	40.83	119.34	Open To Flow (2)
91	44.08	120.68	Shut-In(2)
120	900.66	121.46	End Shut-In(2)
122	2246.37	122.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.10

\* Recovery from multiple tests

## Gas Rates

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





# DRILL STEM TEST REPORT

Chizum Oil LLC  
PO Box 75615  
Wichita, KS 67211  
ATTN: Tim Priest

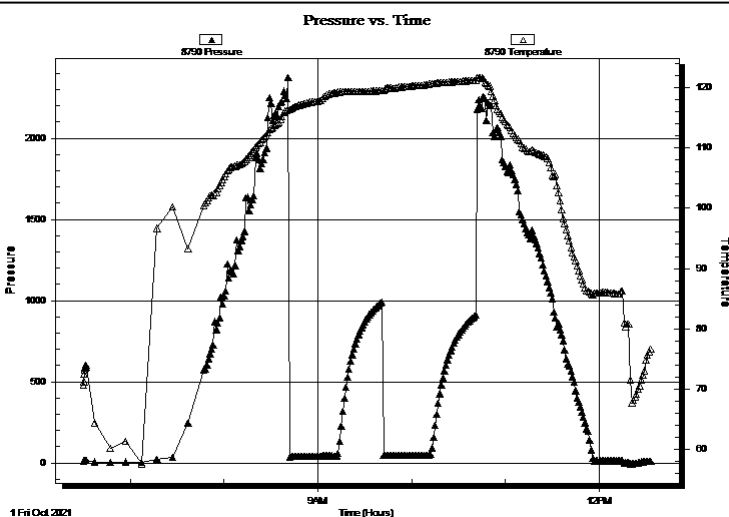
**13-9s-36w Thomas, KS**  
**Luckert #1-13**  
Job Ticket: 67391 **DST#: 5**  
Test Start: 2021.10.01 @ 06:30:03

### GENERAL INFORMATION:

Formation: **Cherokee**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 08:42:03 Tester: Brandon Turley  
Time Test Ended: 12:33:33 Unit No: 79  
**Interval: 4598.00 ft (KB) To 4690.00 ft (KB) (TVD)** Reference Elevations: 3373.00 ft (KB)  
Total Depth: 4690.00 ft (KB) (TVD) 3368.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8790 Inside**  
Press@RunDepth: psig @ 4599.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.10.01 End Date: 2021.10.01 Last Calib.: 2021.10.01  
Start Time: 06:30:07 End Time: 12:33:31 Time On Btm:  
Time Off Btm:

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



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.10

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67391

**DST#: 5**

ATTN: Tim Priest

Test Start: 2021.10.01 @ 06:30:03

## Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 62.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	85000.00 lb
Depth to Top Packer:	4598.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	117.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Stubb	1.00			4574.00	
Shut In Tool	5.00			4579.00	
Hydraulic tool	5.00			4584.00	
EM Tool	3.00			4587.00	
Safety Joint	2.00			4589.00	
Packer	5.00			4594.00	25.00 Bottom Of Top Packer
Packer	4.00			4598.00	
Stubb	1.00			4599.00	
Recorder	0.00	8790	Inside	4599.00	
Recorder	0.00	8674	Outside	4599.00	
Perforations	23.00			4622.00	
Change Over Sub	1.00			4623.00	
Drill Pipe	63.00			4686.00	
Change Over Sub	1.00			4687.00	
Bullnose	3.00			4690.00	92.00 Bottom Packers & Anchor

**Total Tool Length: 117.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67391

**DST#: 5**

ATTN: Tim Priest

Test Start: 2021.10.01 @ 06:30:03

## 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: 59.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	mud 100%m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbf

Num Fluid Samples: 0

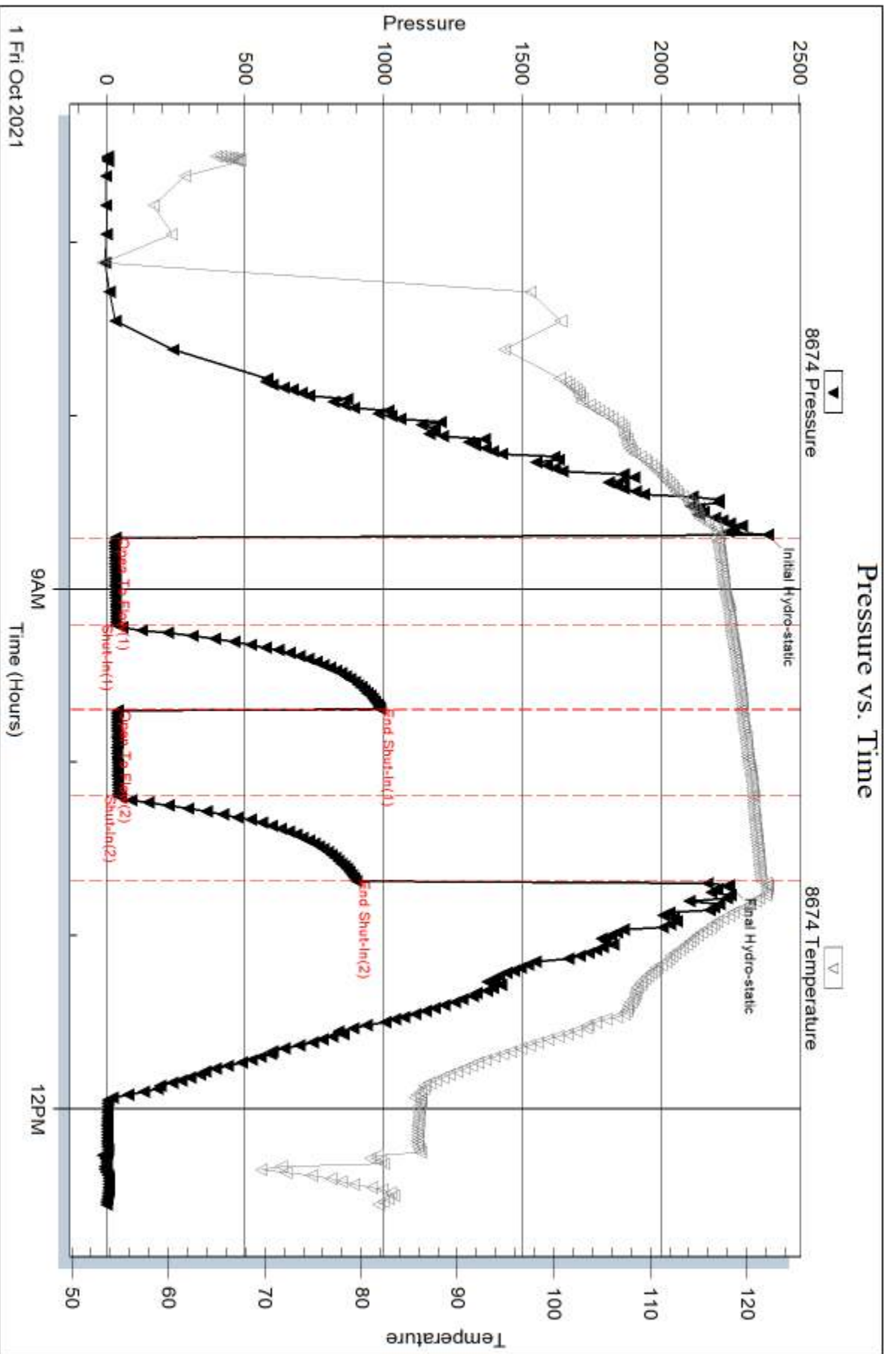
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



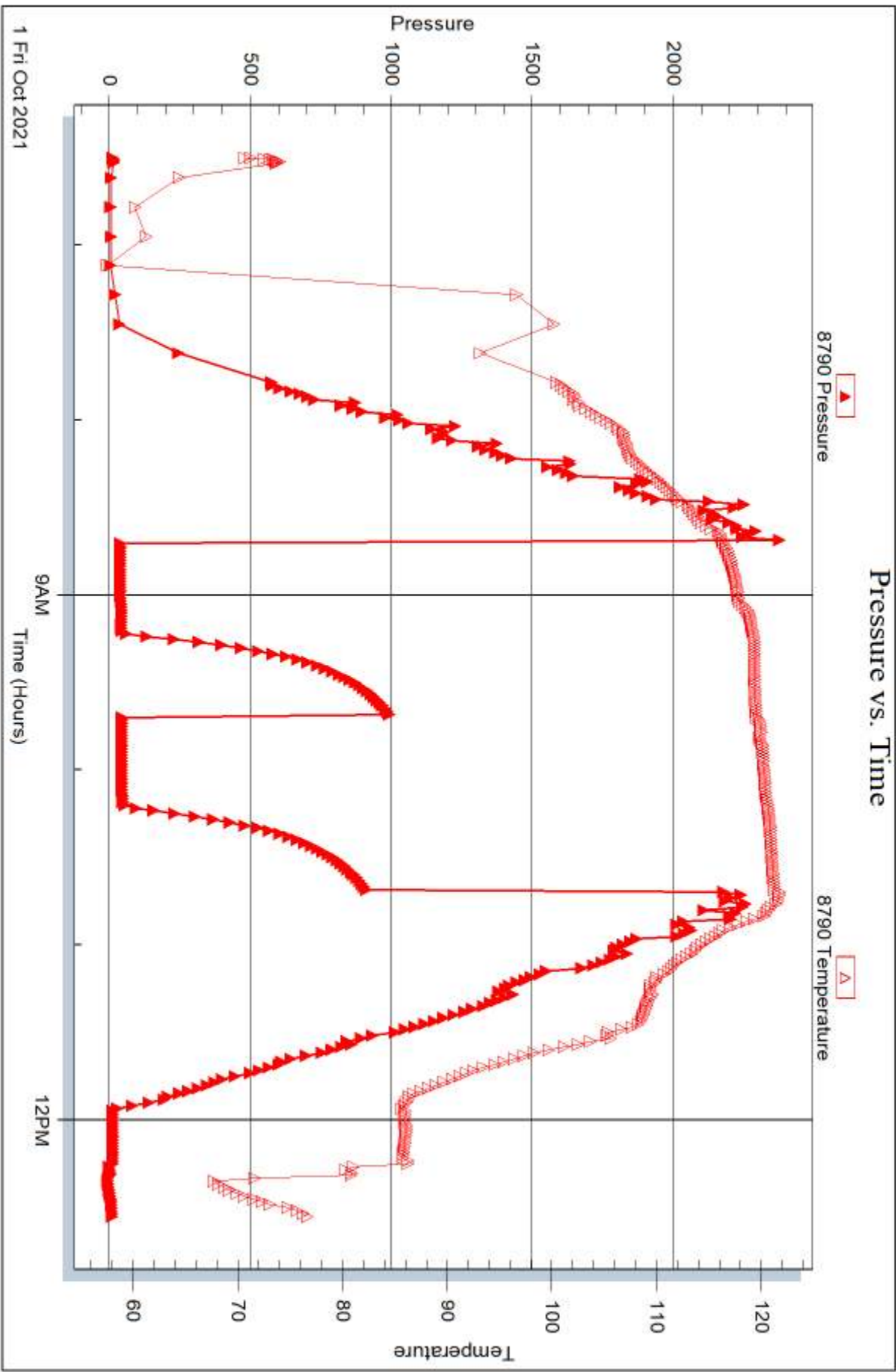
Serial #: 8790

Inside

Chizum Oil LLC

Luckert #1-13

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 67391

Printed: 2021.10.04 @ 13:40:32





## DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

### **Luckert #1-13**

#### **13-9s-36w Thomas,KS**

Start Date: 2021.10.01 @ 20:14:04

End Date: 2021.10.02 @ 05:11:34

Job Ticket #: 67392                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.10.04 @ 13:33:33



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC  
 PO Box 75615  
 Wichita, KS 67211  
 ATTN: Tim Priest

**13-9s-36w Thomas,KS**  
**Luckert #1-13**  
 Job Ticket: 67392 **DST#: 6**  
 Test Start: 2021.10.01 @ 20:14:04

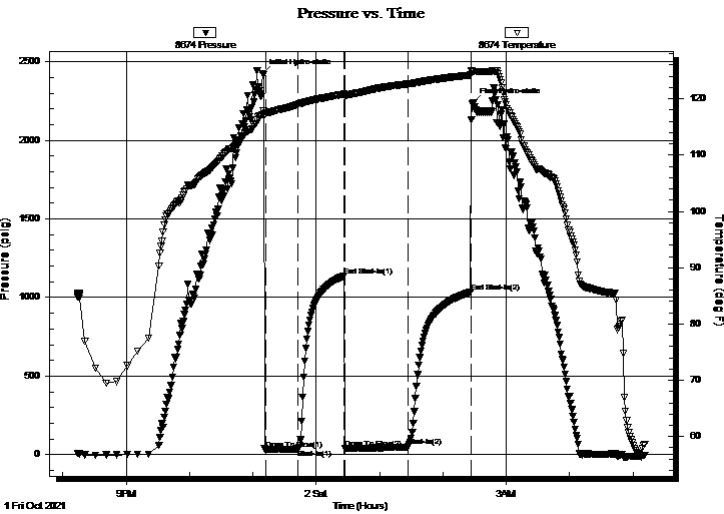
## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:12:04  
 Time Test Ended: 05:11:34  
 Interval: **4670.00 ft (KB) To 4714.00 ft (KB) (TVD)**  
 Total Depth: 4714.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3373.00 ft (KB)  
 3368.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8674 Outside

Press@RunDepth: 50.16 psig @ 4671.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.10.01 End Date: 2021.10.02 Last Calib.: 2021.10.02  
 Start Time: 20:14:09 End Time: 05:11:34 Time On Btm: 2021.10.01 @ 23:09:04  
 Time Off Btm: 2021.10.02 @ 02:29:04

TEST COMMENT: IF: 1/2" blow built to 1 1/4"  
 IS: No return.  
 FF: Surface blow built to 1/2"  
 FS: No return. 30-45-60-60



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.20	117.13	Initial Hydro-static
3	34.46	117.46	Open To Flow (1)
34	37.31	119.03	Shut-In(1)
77	1136.01	120.82	End Shut-In(1)
78	41.47	120.57	Open To Flow (2)
138	50.16	122.63	Shut-In(2)
198	1035.01	124.21	End Shut-In(2)
200	2239.66	124.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	mw 50%w 50%m	0.20

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Chizum Oil LLC

PO Box 75615  
Wichita, KS 67211

ATTN: Tim Priest

**13-9s-36w Thomas,KS**

**Luckert #1-13**

Job Ticket: 67392

**DST#: 6**

Test Start: 2021.10.01 @ 20:14:04

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:12:04

Time Test Ended: 05:11:34

**Interval: 4670.00 ft (KB) To 4714.00 ft (KB) (TVD)**

Total Depth: 4714.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3373.00 ft (KB)

3368.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8790 Inside**

Press@RunDepth: psig @ 4671.00 ft (KB)

Start Date: 2021.10.01 End Date: 2021.10.02

Start Time: 20:14:53 End Time: 05:12:18

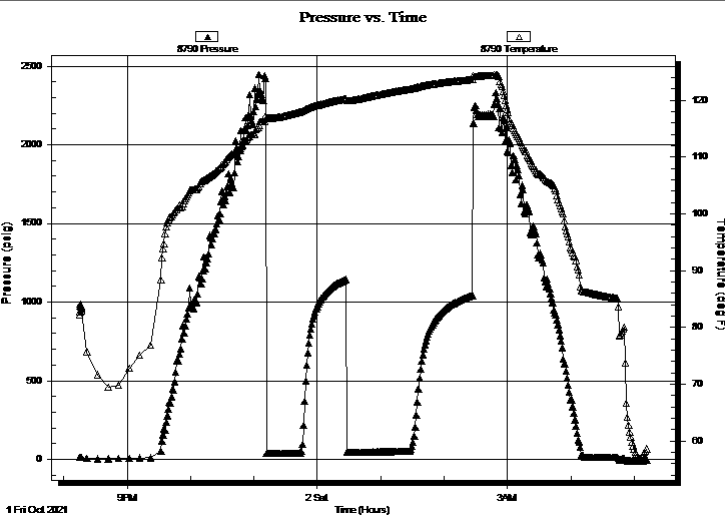
Capacity: 8000.00 psig

Last Calib.: 2021.10.02

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 1/2" blow built to 1 1/4"  
IS: No return.  
FF: Surface blow built to 1/2"  
FS: No return. 30-45-60-60



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
40.00	mw 50%w 50%m	0.20

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67392

**DST#: 6**

ATTN: Tim Priest

Test Start: 2021.10.01 @ 20:14:04

## Tool Information

Drill Pipe:	Length: 4482.00 ft	Diameter: 3.80 inches	Volume: 62.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4670.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4646.00	
Shut In Tool	5.00			4651.00	
Hydraulic tool	5.00			4656.00	
EM Tool	3.00			4659.00	
Safety Joint	2.00			4661.00	
Packer	5.00			4666.00	25.00 Bottom Of Top Packer
Packer	4.00			4670.00	
Stubb	1.00			4671.00	
Recorder	0.00	8790	Inside	4671.00	
Recorder	0.00	8674	Outside	4671.00	
Perforations	6.00			4677.00	
Change Over Sub	1.00			4678.00	
Drill Pipe	32.00			4710.00	
Change Over Sub	1.00			4711.00	
Bullnose	3.00			4714.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Chizum Oil LLC

**13-9s-36w Thomas,KS**

PO Box 75615  
Wichita, KS 67211

**Luckert #1-13**

Job Ticket: 67392

**DST#: 6**

ATTN: Tim Priest

Test Start: 2021.10.01 @ 20:14:04

### 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:

22000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mw 50%w 50%m	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

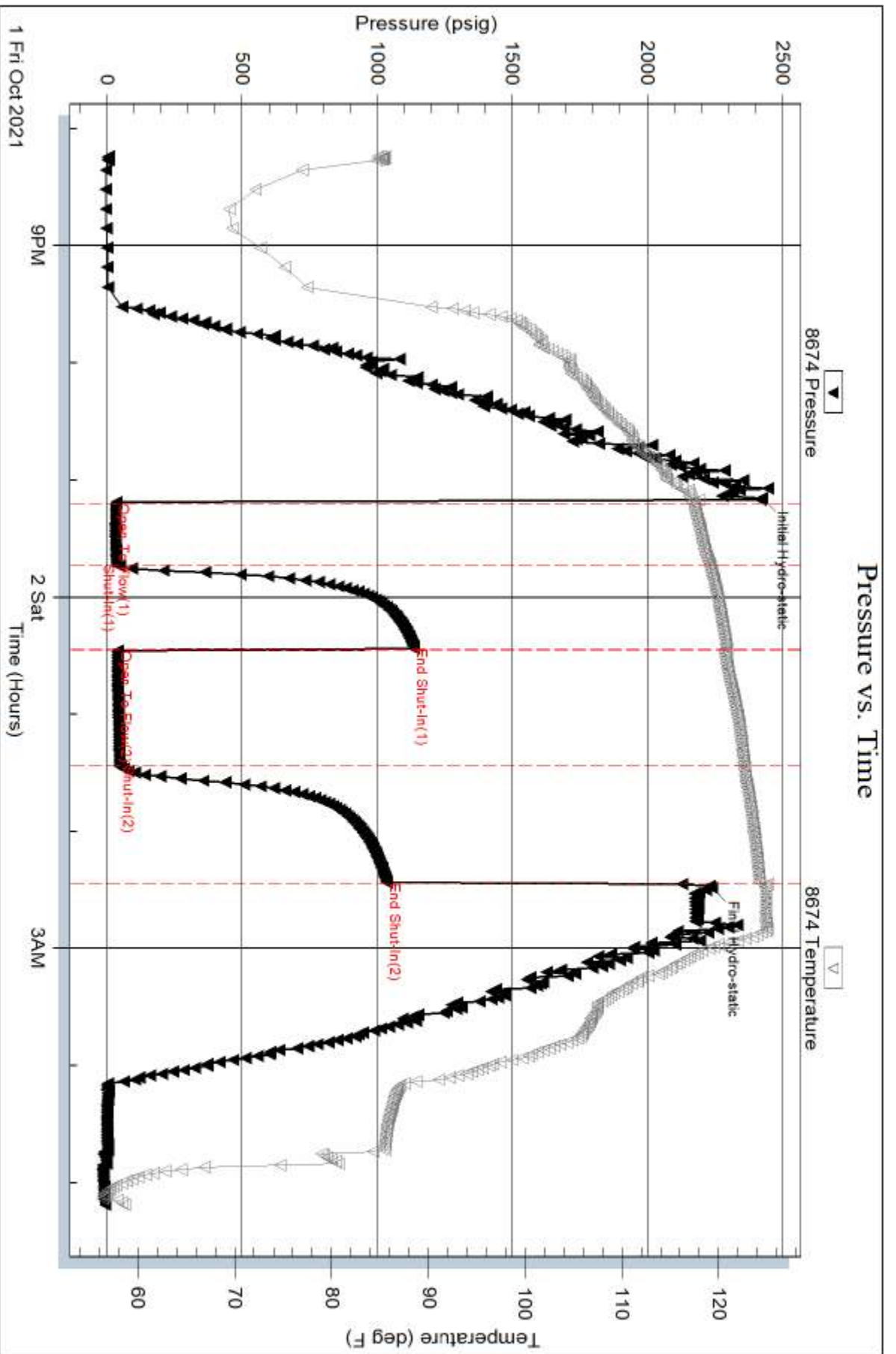
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .43@49=22000





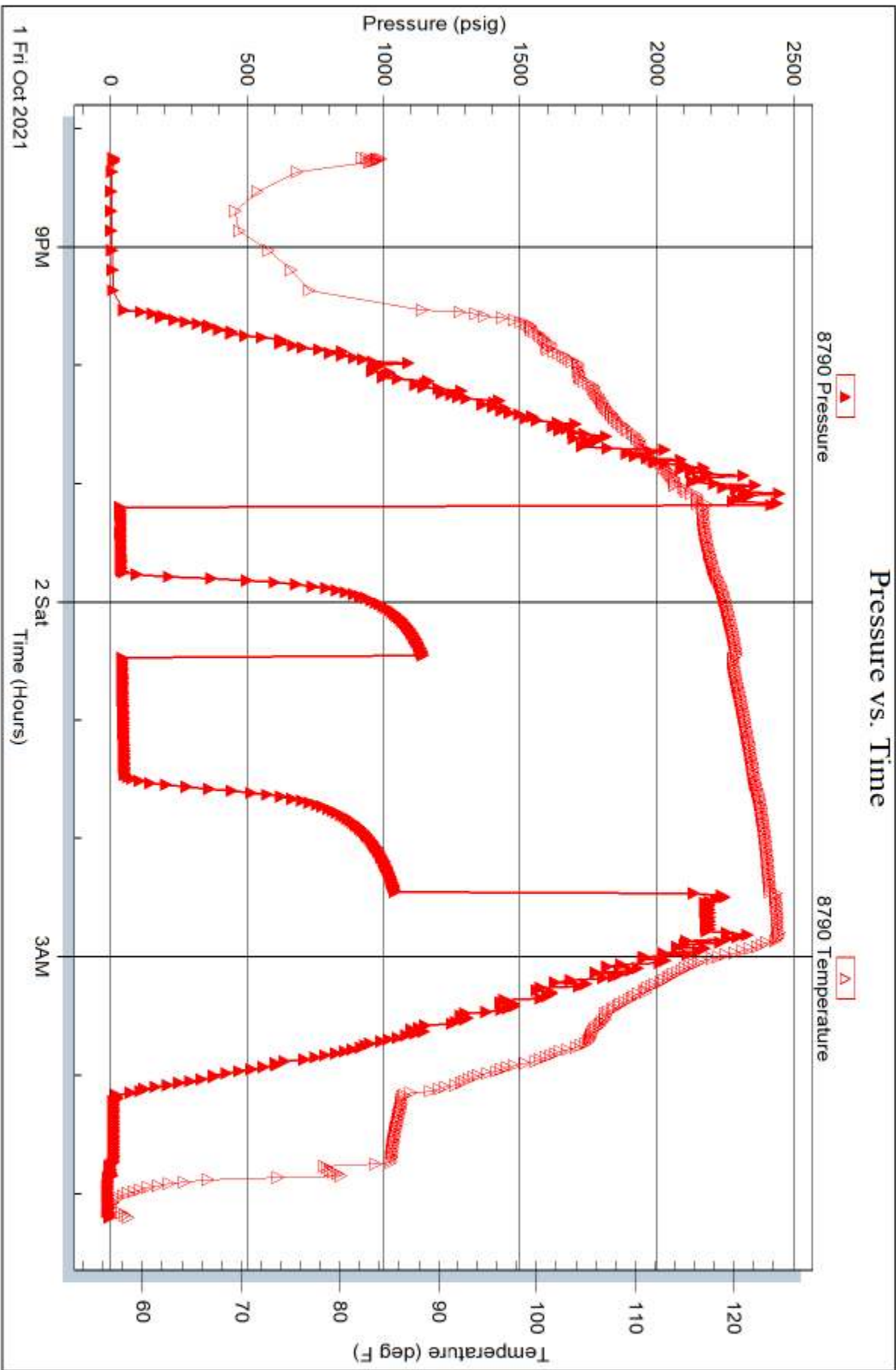
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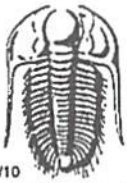
Inside

Chizum Oil LLC

Luckert #1-13

DST Test Number: 6





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67387**

Well Name & No. Luckert 1-73 Test No. 1 Date 9-27-21  
 Company Chizum Oil LLC Elevation 3373 KB 3368 GL  
 Address P.O. Box 75615 Wichita, KS 67211  
 Co. Rep / Geo. Tim Priest Rig Murfin 110  
 Location: Sec. 13 Twp 9 Rge. 36 Co. Thomas State KS

Interval Tested 4237 4260 Zone Tested Lansing E-F  
 Anchor Length 23 Drill Pipe Run 4039 Mud Wt. 8.9  
 Top Packer Depth 4232 Drill Collars Run 178 Vis 66  
 Bottom Packer Depth 4237 Wt. Pipe Run — WL 8.0  
 Total Depth 4260 Chlorides 4000 ppm System LCM 1

Blow Description IF: surface blow built to 1/2.  
IS: No return.  
FF: surface blow died in 15 min.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 119 Gravity — API RW — @ — F Chlorides — ppm

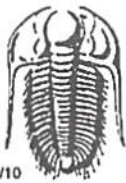
(A) Initial Hydrostatic 2146  Test 1450 T-On Location 3:25  
 (B) First Initial Flow 29  Jars \_\_\_\_\_ T-Started 6:40  
 (C) First Final Flow 25  Safety Joint 75 T-Open 8:33  
 (D) Initial Shut-In 1057  Circ Sub NIL T-Pulled 10:48  
 (E) Second Initial Flow 30  Hourly Standby \_\_\_\_\_ T-Out 12:40  
 (F) Second Final Flow 27  Mileage 180 - 225 Comments out of town  
 (G) Final Shut-In 1089  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2073  Straddle \_\_\_\_\_  EM Tool 350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_  
 Sub Total 2000 Sub Total 350  
 Total 2350 MP/DST Disc't \_\_\_\_\_

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67388

Well Name & No. Luckert 1-13 Test No. 2 Date 9-28-21  
 Company Chizqm oil LLC Elevation 3373 KB 3368 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Rig Martin 110  
 Location: Sec. 13 Twp 9 Rge. 36 Co. THOMAS State KS

Interval Tested 4297 4385 Zone Tested HI-J  
 Anchor Length 88 Drill Pipe Run 4101 Mud Wt. 9.2  
 Top Packer Depth 4292 Drill Collars Run 178 Vis 61  
 Bottom Packer Depth 4297 Wt. Pipe Run \_\_\_\_\_ WL 11.2  
 Total Depth 4385 Chlorides 7700 ppm System LCM 1  
 Blow Description IF: 3/4 blow built to 7.  
IS: No return.  
FF: 1/4 blow built to 7.  
FSI No return.

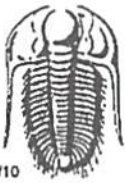
Rec	Feet of	%gas	%oil	%water	%mud
<u>291</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 291 BHT 127 Gravity \_\_\_\_\_ API RW .14 @ 65° F Chlorides 59,000 ppm

(A) Initial Hydrostatic <u>2225</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>13:00</u>
(B) First Initial Flow <u>35</u>	<input type="checkbox"/> Jars _____	T-Started <u>13:52</u>
(C) First Final Flow <u>106</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:38</u>
(D) Initial Shut-In <u>1274</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>19:08</u>
(E) Second Initial Flow <u>118</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>21:41</u>
(F) Second Final Flow <u>173</u>	<input checked="" type="checkbox"/> Mileage <u>180</u> - 225	Comments <u>out of town</u>
(G) Final Shut-In <u>1257</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2056</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2350</u>
	Sub Total <u>2000</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. **67389**

Well Name & No. Luckert 1-13 Test No. 3 Date 9-29-21  
 Company Chizum oil LLC Elevation 3373 KB 3368 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Rig Murfin 110  
 Location: Sec. 13 Twp 9 Rge. 36 Co. Thomas State KS

Interval Tested 4380 4440 Zone Tested K-L  
 Anchor Length \_\_\_\_\_ Drill Pipe Run 4197 Mud Wt. 9.2  
 Top Packer Depth \_\_\_\_\_ Drill Collars Run 178 Vis 61  
 Bottom Packer Depth \_\_\_\_\_ Wt. Pipe Run \_\_\_\_\_ WL 11.2  
 Total Depth 4440 Chlorides 7700 ppm System LCM 1  
 Blow Description IF: 1/4 blow built to 2 1/2.  
IS: No return.  
FF: 1/4 blow built to 3 3/4.  
FS: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>oil</u>	<u>100</u>			
<u>60</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>80 cm</u>	<u>20</u>			<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

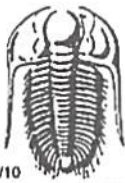
Rec Total 150 BHT 119 Gravity 25 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2268  Test 1450 T-On Location 7:10  
 (B) First Initial Flow 37  Jars \_\_\_\_\_ T-Started 7:50  
 (C) First Final Flow 55  Safety Joint 75 T-Open 10:08  
 (D) Initial Shut-In 1182  Circ Sub NIL T-Pulled 12:46  
 (E) Second Initial Flow 64  Hourly Standby \_\_\_\_\_ T-Out 14:52  
 (F) Second Final Flow 87  Mileage 180- 225 Comments out of town  
 (G) Final Shut-In 1119  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2137  Straddle \_\_\_\_\_  EM Tool 350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 350  
 Total 2350  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 2000

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

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67390

Well Name & No. Luckert 1-13 Test No. 4 Date 9-30-21  
 Company Chizum oil LLC Elevation 3373 KB 3368 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Rig Murfin 110  
 Location: Sec. 13 Twp 9 Rge. 36 Co. Thomas State Ks

Interval Tested 4545 4595 Zone Tested Pawnee  
 Anchor Length 50 Drill Pipe Run 4356 Mud Wt. 9.3  
 Top Packer Depth 4540 Drill Collars Run 178 Vis 63  
 Bottom Packer Depth 4545 Wt. Pipe Run \_\_\_\_\_ WL 10.4  
 Total Depth 4595 Chlorides 9500 ppm System LCM 1  
 Blow Description IF: Surface blow built to 1/4.  
ID: No return.  
FF: No blow.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>ocm</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 118 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2333</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>9:00</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:30</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:29</u>
(D) Initial Shut-In <u>80</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>15:29</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:32</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>180 - 225</u>	Comments <u>out of town</u>
(G) Final Shut-In <u>91</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2237</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2350</u>
	Sub Total <u>2000</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67391

Well Name & No. Luckert 1-13 Test No. 5 Date 10-1-21  
 Company Chizum oil LLC Elevation 3379 KB 3368 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Rig Marfin 110  
 Location: Sec. 13 Twp 9 Rge. 36 Co. Thomas State KS

Interval Tested 4598 4690 Zone Tested Cherokee  
 Anchor Length \_\_\_\_\_ 92 Drill Pipe Run 4420 Mud Wt. 9.3  
 Top Packer Depth \_\_\_\_\_ 4593 Drill Collars Run 178 Vls 59  
 Bottom Packer Depth \_\_\_\_\_ 4598 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth \_\_\_\_\_ 4690 Chlorides 7000 ppm System LCM 1  
 Blow Description IF: 1/4 blow built to 3/4.  
TS: No return,  
FP: surface blow built to 1/4.  
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 121 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2384</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>5:40</u>
(B) First Initial Flow <u>33</u>	<input type="checkbox"/> Jars _____	T-Started <u>6:30</u>
(C) First Final Flow <u>34</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:42</u>
(D) Initial Shut-In <u>987</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>10:42</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:34</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>180</u> - 225	Comments <u>out of town</u>
(G) Final Shut-In <u>900</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2246</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2350</u>
	Sub Total <u>2000</u>	MP/DST Disc't _____

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67392

Well Name & No. Luckert 1-13 Test No. 6 Date 10-1-21  
 Company Chizum oil LLC Elevation 3373 KB 3368 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Rig Murfin 110  
 Location: Sec. 13 Twp 9 Rge. 36 Co. Thomas State KS

Interval Tested 4670 4714 Zone Tested Johnson  
 Anchor Length 44 Drill Pipe Run 4482 Mud Wt. 9.3  
 Top Packer Depth 4665 Drill Collars Run 178 Vis 49  
 Bottom Packer Depth 4670 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4714 Chlorides 7500 ppm System LCM 1

Blow Description IF: 1/2 blow built to 1/4.  
IS: No return.  
FF: Surface blow built to 1/2.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 40 BHT 124 Gravity \_\_\_\_\_ API RW .43@ 49° F Chlorides 22,000 ppm  
 (A) Initial Hydrostatic 2423  Test 1450 T-On Location 19:30  
 (B) First Initial Flow 34  Jars \_\_\_\_\_ T-Started 20:14  
 (C) First Final Flow 37  Safety Joint 75 T-Open 23:11  
 (D) Initial Shut-In 1136  Circ Sub NIL T-Pulled 2:26  
 (E) Second Initial Flow 41  Hourly Standby \_\_\_\_\_ T-Out 5:15  
 (F) Second Final Flow 50  Mileage 180- 450 Comments out of town  
 (G) Final Shut-In 1035  Sampler \_\_\_\_\_ loaded tools 12:45 10/2  
 (H) Final Hydrostatic 2239  Straddle \_\_\_\_\_  EM Tool 350

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Sub Total 350  
 Sub Total 2225 Total 2575 MP/DST Disc't \_\_\_\_\_

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