

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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Customer	Chizum Oil LLC	Lease & Well #	Quenzer 3-27	Date	10/24/2020
Service District	Oakley Ks	County & State	Sherman Ks	Legals S/T/R	27/7/37
Job Type	Long String	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	Job #
					Ticket #
Equipment #	Driver				ict 4348

Equipment #		Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
73	Josh	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging	
230	John	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input checked="" type="checkbox"/> Required Permits	<input checked="" type="checkbox"/> Fall Protection	
194/254	Kale	<input checked="" type="checkbox"/> Safety Footwear	<input checked="" type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations	
78	Dane	<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 checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below		
Comments						

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
C015	Cement Pump Service	ea	1.00	
M010	Heavy Equipment Mileage	mi	40.00	\$1,125.00
M015	Light Equipment Mileage	mi	40.00	\$120.00
M020	Ton Mileage	tm	296.00	\$60.00
				\$333.00
CP035	HSC	sack	135.00	\$2,835.00
CP055	H-Plug	sack	25.00	\$243.75
CP170	Mud Flush	gal	500.00	\$375.00
FE125	5 1/2" Centralizer	ea	5.00	\$225.00
FE130	5 1/2" Cement Basket	ea	1.00	\$225.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$281.25
FE195	5 1/2" Rubber Plug	ea	1.00	\$93.75
C050	Cement Plug Container	job	1.00	\$187.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$6,104.25
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		State tax laws deem certain products and services used on new wells to be sales tax exempt.	
		Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	
		Sale Tax:	\$ -
		Total:	\$ 6,104.25
		HSI Representative:	<i>Josh Mosier</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 _____ RICKY HILGERS _____ CUSTOMER AUTHORIZATION SIGNATURE



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chizum Oil LLC

27-7-37 Sherman, Ks

P.O. Box 75615
Wichita, Ks 67211

Quenzer 3-27

Job Ticket: 66780

DST#: 1

ATTN: Tim Priest

Test Start: 2020.10.19 @ 13:44:46

GENERAL INFORMATION:

Formation: **H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:46:46
 Time Test Ended: 20:37:46
 Interval: **4396.00 ft (KB) To 4510.00 ft (KB) (TVD)**
 Total Depth: 4510.00 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: 3468.00 ft (KB)
 3463.00 ft (CF)
 KB to GR/CF: 5.00 ft

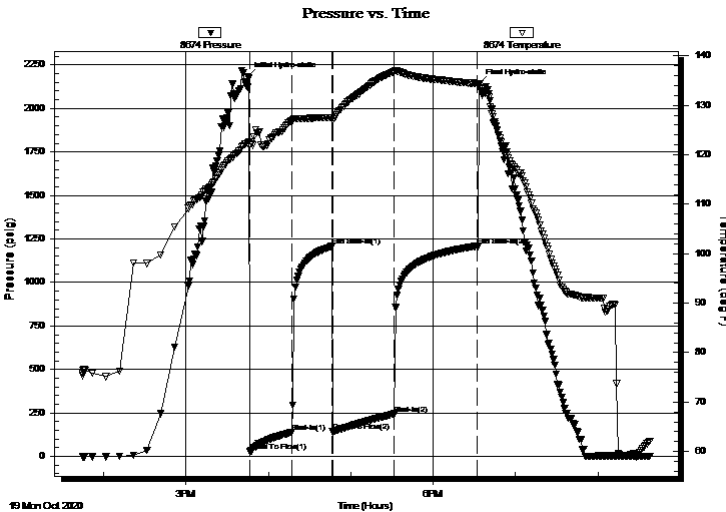
Serial #: 8674

Outside

Press@RunDepth: 244.85 psig @ 4401.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.10.19 End Date: 2020.10.19 Last Calib.: 2020.10.20
 Start Time: 13:44:51 End Time: 20:37:45 Time On Btm: 2020.10.19 @ 15:45:16
 Time Off Btm: 2020.10.19 @ 18:33:46

TEST COMMENT: IF: BOB in 26 min. 12
 IS: No return.
 FF: BOB in 36 min. 12
 FS: No return. 30-30-45-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.97	122.36	Initial Hydro-static
2	27.50	122.17	Open To Flow (1)
32	139.11	126.85	Shut-In(1)
61	1207.37	127.51	End Shut-In(1)
62	142.64	126.97	Open To Flow (2)
107	244.85	136.79	Shut-In(2)
167	1208.90	134.40	End Shut-In(2)
169	2143.06	133.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 95%w 5%m	1.69
126.00	mcw 80%w 20%m	0.62
176.00	mud 100%m	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil LLC

27-7-37 Sherman, Ks

P.O. Box 75615
Wichita, Ks 67211

Quenzer 3-27

Job Ticket: 66780

DST#: 1

ATTN: Tim Priest

Test Start: 2020.10.19 @ 13:44:46

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	mcw 95%w 5%m	1.695
126.00	mcw 80%w 20%m	0.620
176.00	mud 100%m	0.866

Total Length: 428.00 ft Total Volume: 3.181 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

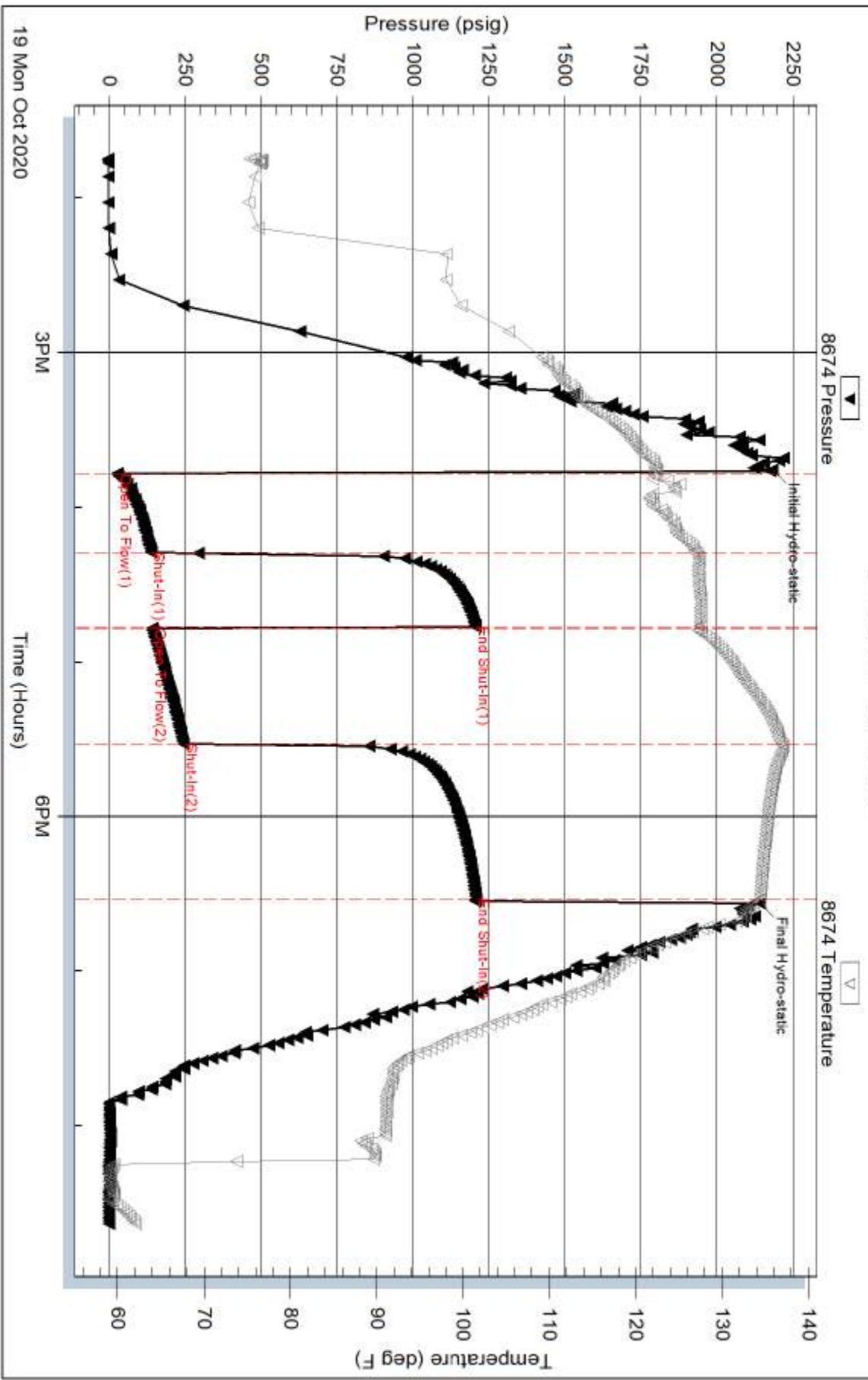
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .40@54=22000

Pressure vs. Time



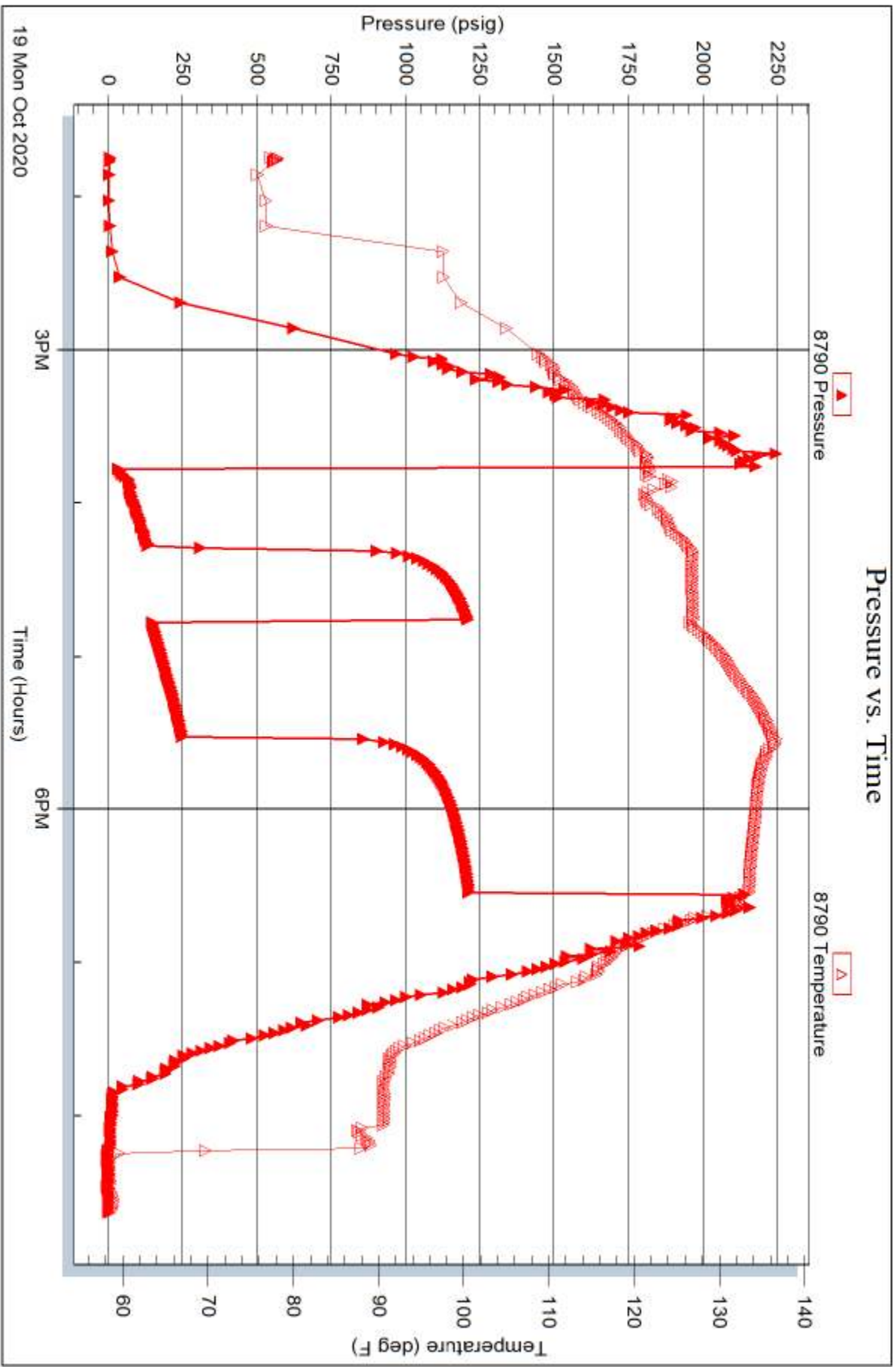
Serial #: 8790

Inside

Chizum Oil LLC

Quenzer 3-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66780

Printed: 2020.10.20 @ 21:42:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chizum Oil LLC
P.O. Box 75615
Wichita, Ks 67211
ATTN: Tim Priest

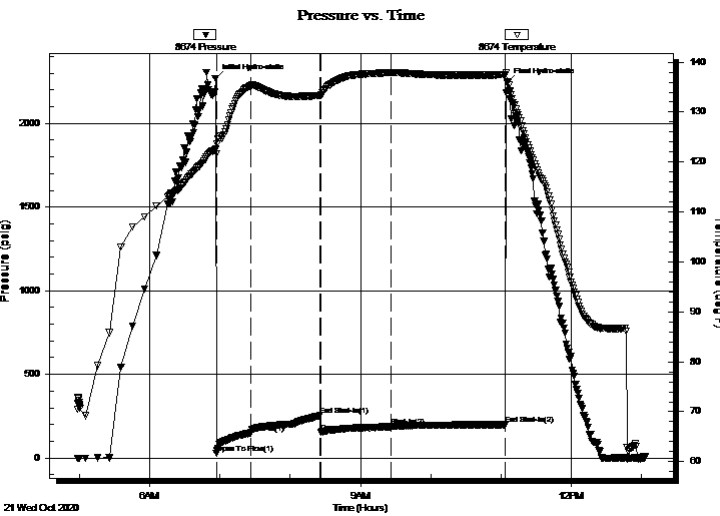
27-7-37 Sherman, Ks
Quenzer 3-27
Job Ticket: 66781 **DST#: 2**
Test Start: 2020.10.21 @ 04:58:29

GENERAL INFORMATION:

Formation: **L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:56:59
Time Test Ended: 13:02:59
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Interval: **4516.00 ft (KB) To 4560.00 ft (KB) (TVD)**
Reference Elevations: 3468.00 ft (KB)
Total Depth: 4560.00 ft (KB) (TVD) 3463.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
Press@RunDepth: 187.27 psig @ 4521.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.10.21 End Date: 2020.10.21 Last Calib.: 2020.10.21
Start Time: 04:58:34 End Time: 13:02:58 Time On Btm: 2020.10.21 @ 06:55:59
Time Off Btm: 2020.10.21 @ 11:05:29

TEST COMMENT: IF: BOB in 13 min. 17
IS: No return.
FF: Surface blow built to 5.
FS: No return. 30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2267.11	122.46	Initial Hydro-static
1	26.64	121.62	Open To Flow (1)
31	150.41	135.33	Shut-In(1)
90	254.12	133.32	End Shut-In(1)
90	153.65	133.31	Open To Flow (2)
150	187.27	137.93	Shut-In(2)
248	199.69	137.49	End Shut-In(2)
250	2244.27	136.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw 90%w 10%m	2.31
117.00	mcw oil spots 60%w 40%m	0.58
1.00	free oil 100%o	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

Chizum Oil LLC

27-7-37 Sherman, Ks

P.O. Box 75615
Wichita, Ks 67211

Quenzer 3-27

Job Ticket: 66781

DST#: 2

ATTN: Tim Priest

Test Start: 2020.10.21 @ 04:58:29

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:

24000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
252.00	mcw 90%w 10%m	2.314
117.00	mcw oil spots 60%w 40%m	0.575
1.00	free oil 100%o	0.005

Total Length: 370.00 ft Total Volume: 2.894 bbf

Num Fluid Samples: 0

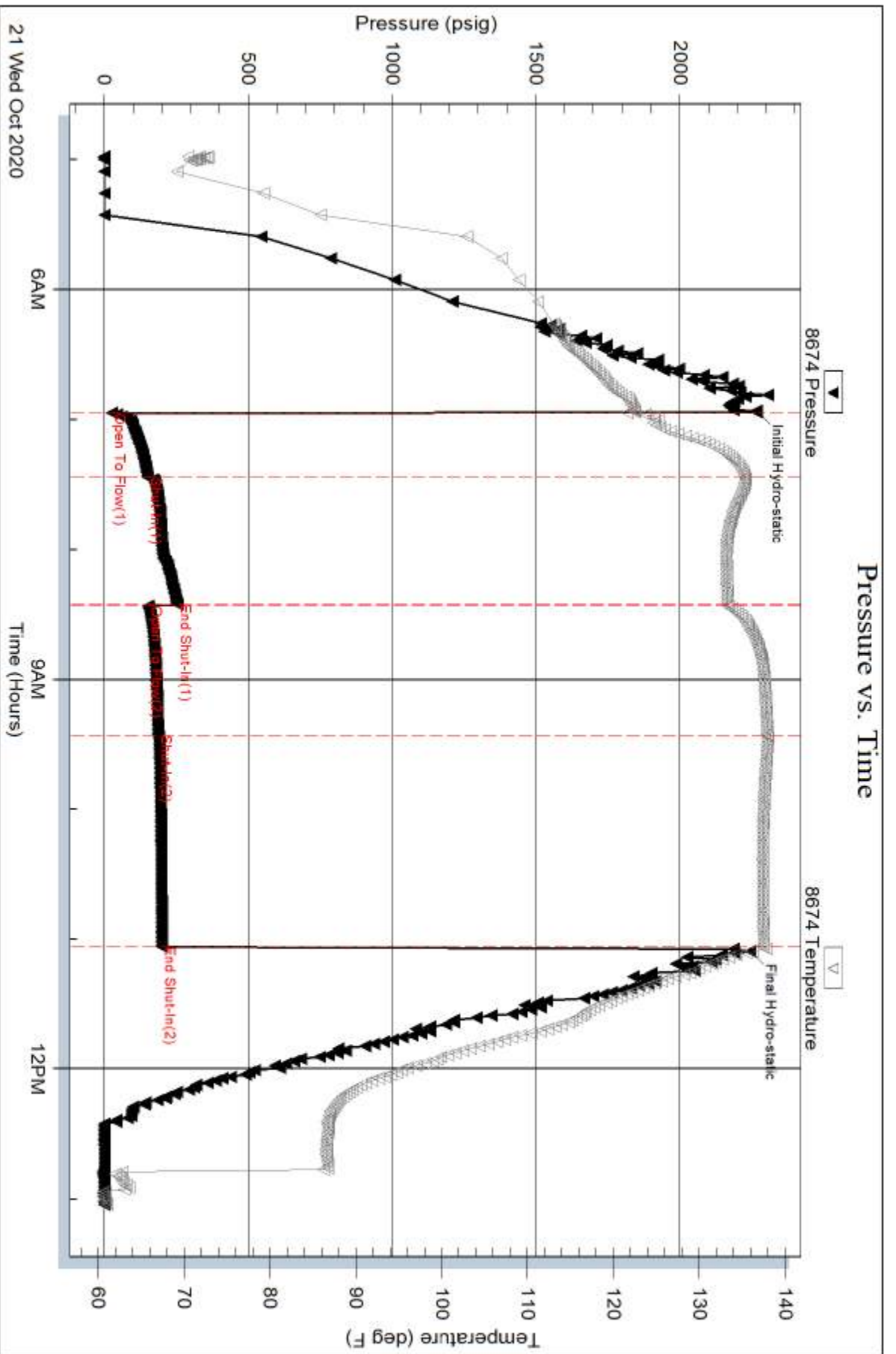
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .41@49=24000



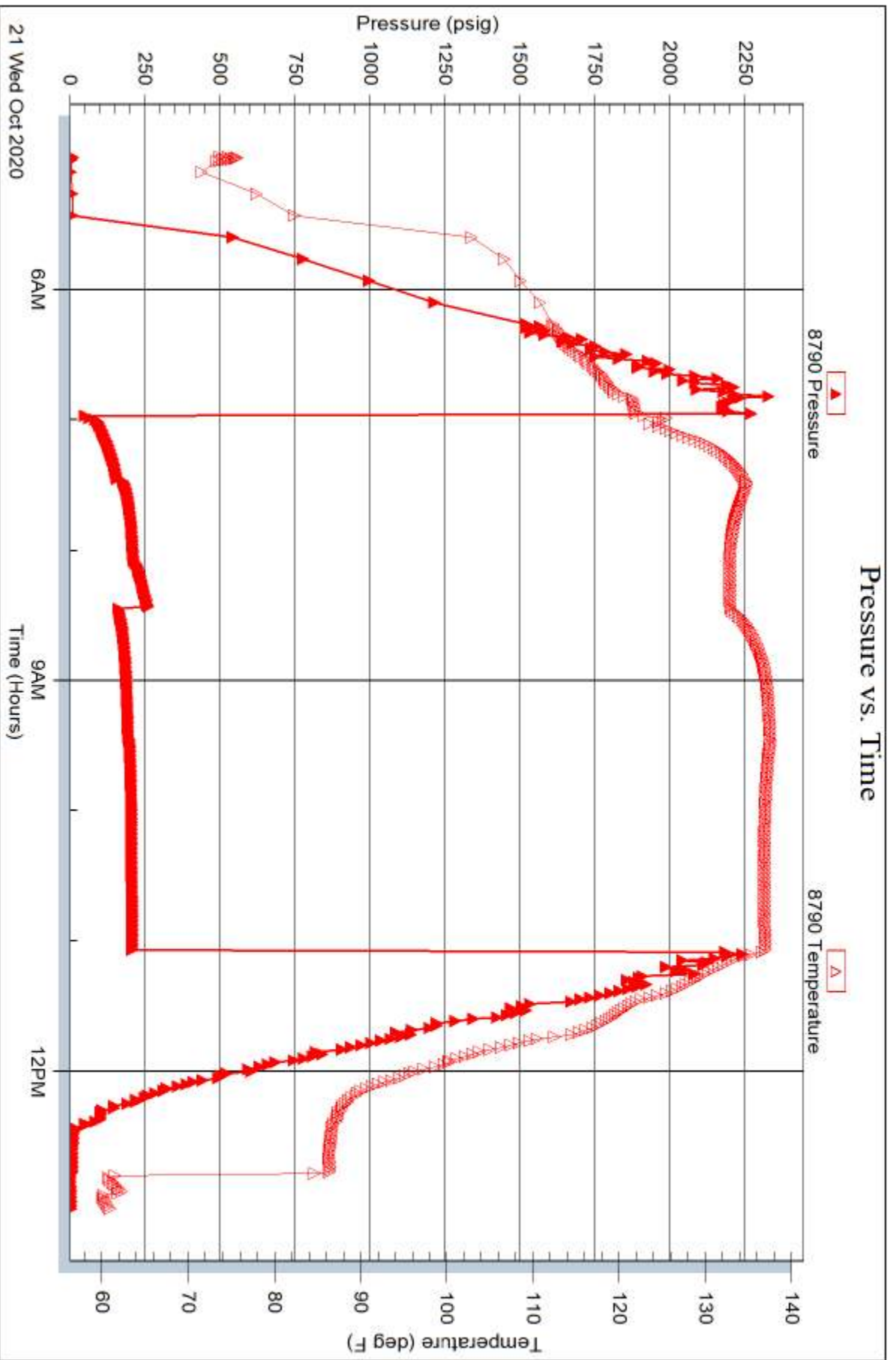
Serial #: 8790

Inside

Chizum Oil LLC

Quenzer 3-27

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66781

Printed: 2020.10.21 @ 13:54:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chizum Oil LLC

27-7-37 Sherman, Ks

P.O. Box 75615
Wichita, Ks 67211

Quenzer 3-27

Job Ticket: 66782

DST#: 3

ATTN: Tim Priest

Test Start: 2020.10.22 @ 00:36:44

GENERAL INFORMATION:

Formation: **Marmaton A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:49:44

Time Test Ended: 08:59:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4558.00 ft (KB) To 4650.00 ft (KB) (TVD)

Reference Elevations: 3468.00 ft (KB)

Total Depth: 4650.00 ft (KB) (TVD)

3463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8790

Inside

Press@RunDepth: psig @ 4563.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.10.22

End Date:

2020.10.22

Last Calib.:

2020.10.22

Start Time: 00:36:49

End Time:

08:59:43

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 3 1/2"

IS: No return.

FF: Surface blow built to 3 1/2"

FS: No return. 30-60-60-90

PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
126.00	mw oil spots 50%w 50%m	1.69
94.00	ocm 10%o 90%m	0.46

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

Chizum Oil LLC

27-7-37 Sherman, Ks

P.O. Box 75615
Wichita, Ks 67211

Quenzer 3-27

Job Ticket: 66782

DST#: 3

ATTN: Tim Priest

Test Start: 2020.10.22 @ 00:36:44

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:

19000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
126.00	mw oil spots 50%w 50%m	1.695
94.00	ocm 10%o 90%m	0.462

Total Length: 220.00 ft Total Volume: 2.157 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

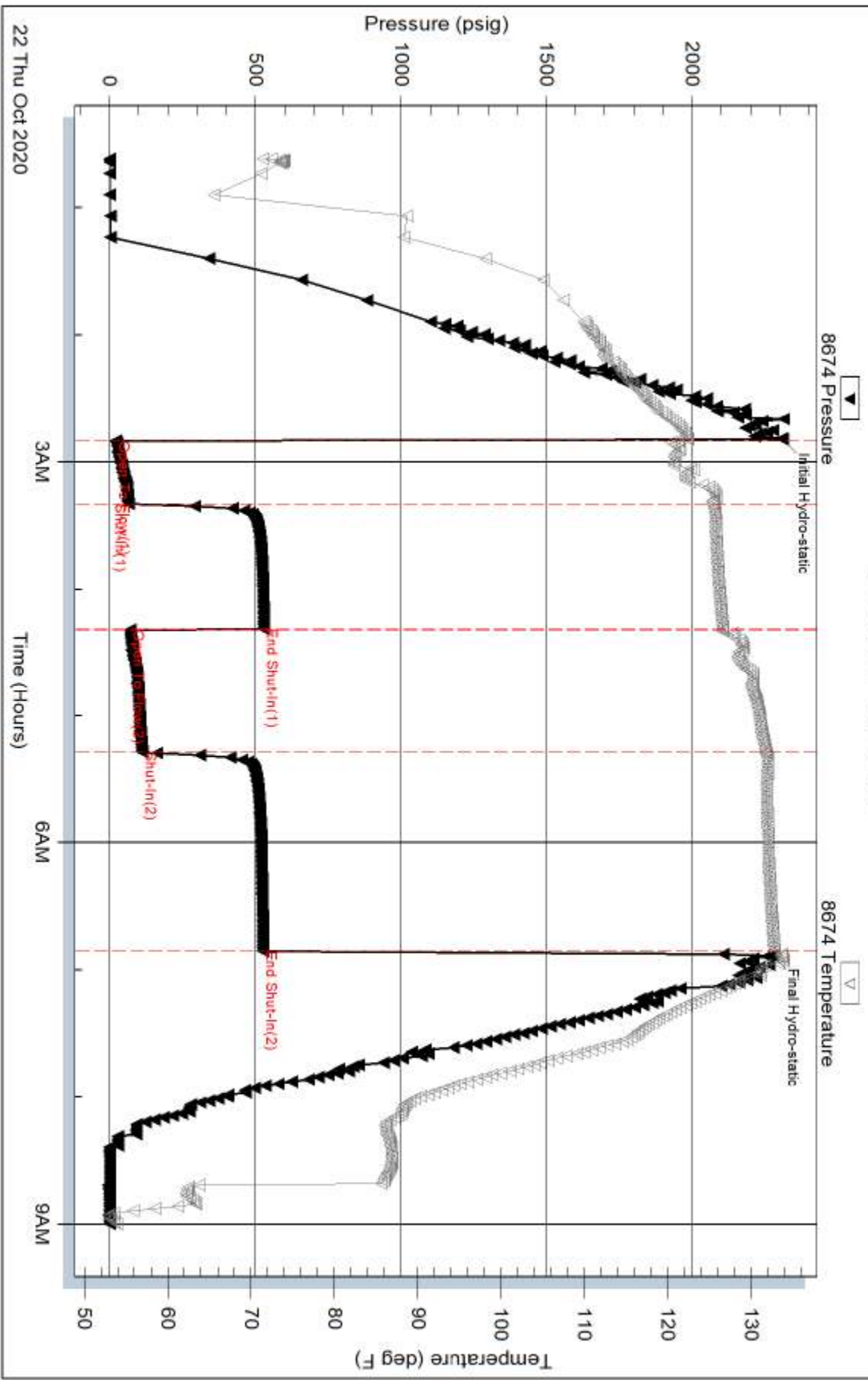
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .63@39=19000

Pressure vs. Time



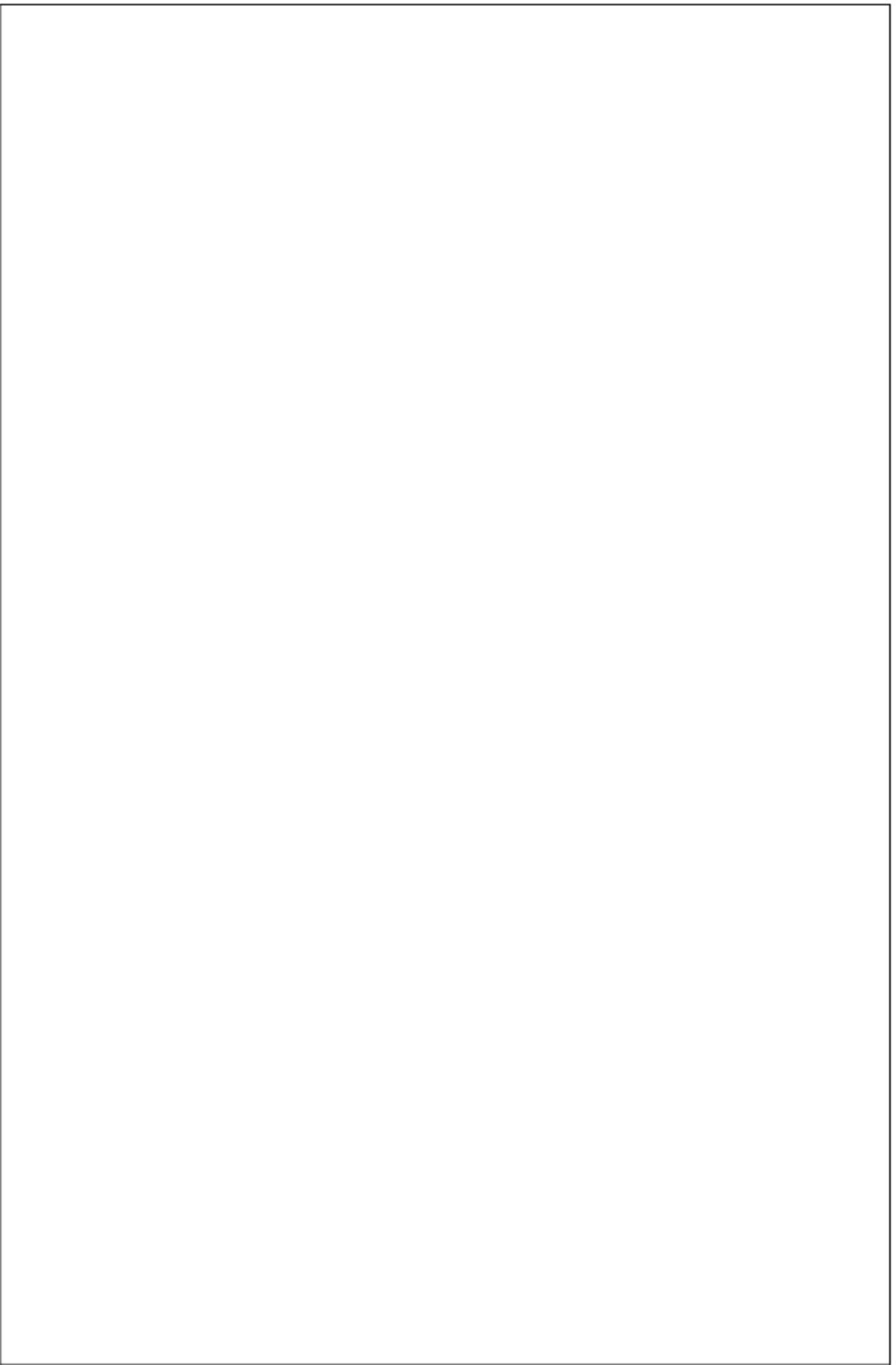
Serial #: 8790

Inside

Chizum Oil LLC

Quenzer 3-27

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 66782

Printed: 2020.10.22 @ 09:36:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil LLC
 P.O. Box 75615
 Wichita, Ks 67211
 ATTN: Tim Priest

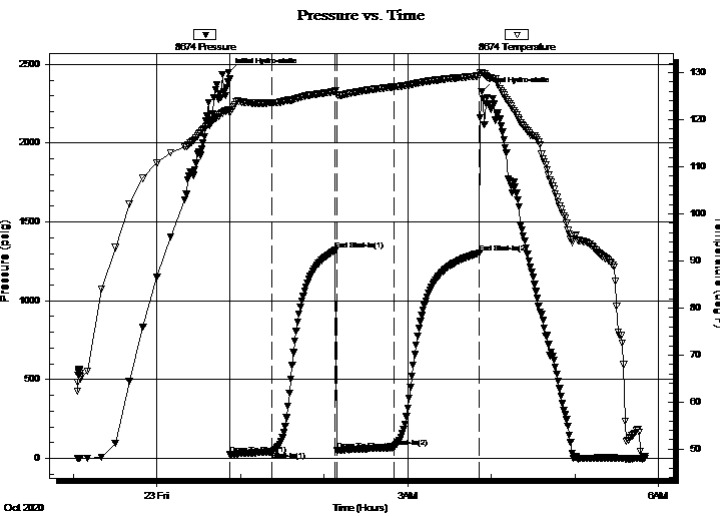
27-7-37 Sherman, Ks
Quenzer 3-27
 Job Ticket: 66783 **DST#: 4**
 Test Start: 2020.10.22 @ 23:03:06

GENERAL INFORMATION:

Formation: **Pawnee- Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:52:36
 Time Test Ended: 05:50:36
 Interval: **4637.00 ft (KB) To 4780.00 ft (KB) (TVD)**
 Total Depth: 4780.00 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: 3468.00 ft (KB)
 3463.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 72.03 psig @ 4642.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.10.22 End Date: 2020.10.23 Last Calib.: 2020.10.23
 Start Time: 23:03:11 End Time: 05:50:35 Time On Btm: 2020.10.23 @ 00:51:36
 Time Off Btm: 2020.10.23 @ 03:53:06

TEST COMMENT: IF: 1 blow built to 5.
 IS: Surface blow died in 30 min.
 FF: 1/2 blow built to 4.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2448.82	122.08	Initial Hydro-static
1	25.22	121.56	Open To Flow (1)
31	42.46	123.60	Shut-In(1)
77	1320.13	126.05	End Shut-In(1)
78	50.96	125.37	Open To Flow (2)
119	72.03	126.98	Shut-In(2)
180	1302.60	129.32	End Shut-In(2)
182	2326.66	130.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	gocm 10%g 20%o 70%m	1.66

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil LLC

27-7-37 Sherman, Ks

P.O. Box 75615
Wichita, Ks 67211

Quenzer 3-27

Job Ticket: 66783

DST#: 4

ATTN: Tim Priest

Test Start: 2020.10.22 @ 23:03:06

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
118.00	gocm 10%g 20%o 70%m	1.655

Total Length: 118.00 ft Total Volume: 1.655 bbl

Num Fluid Samples: 0

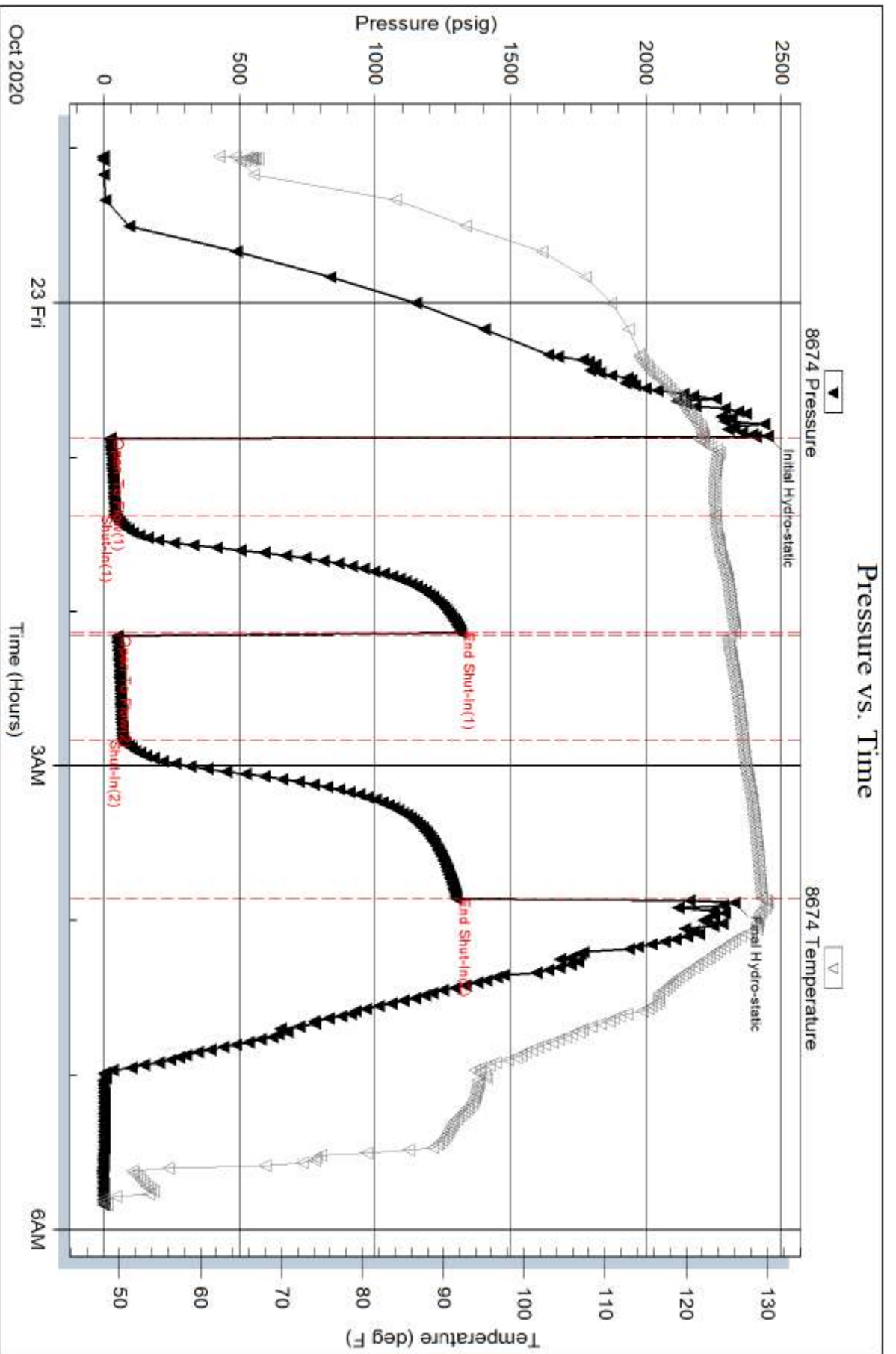
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



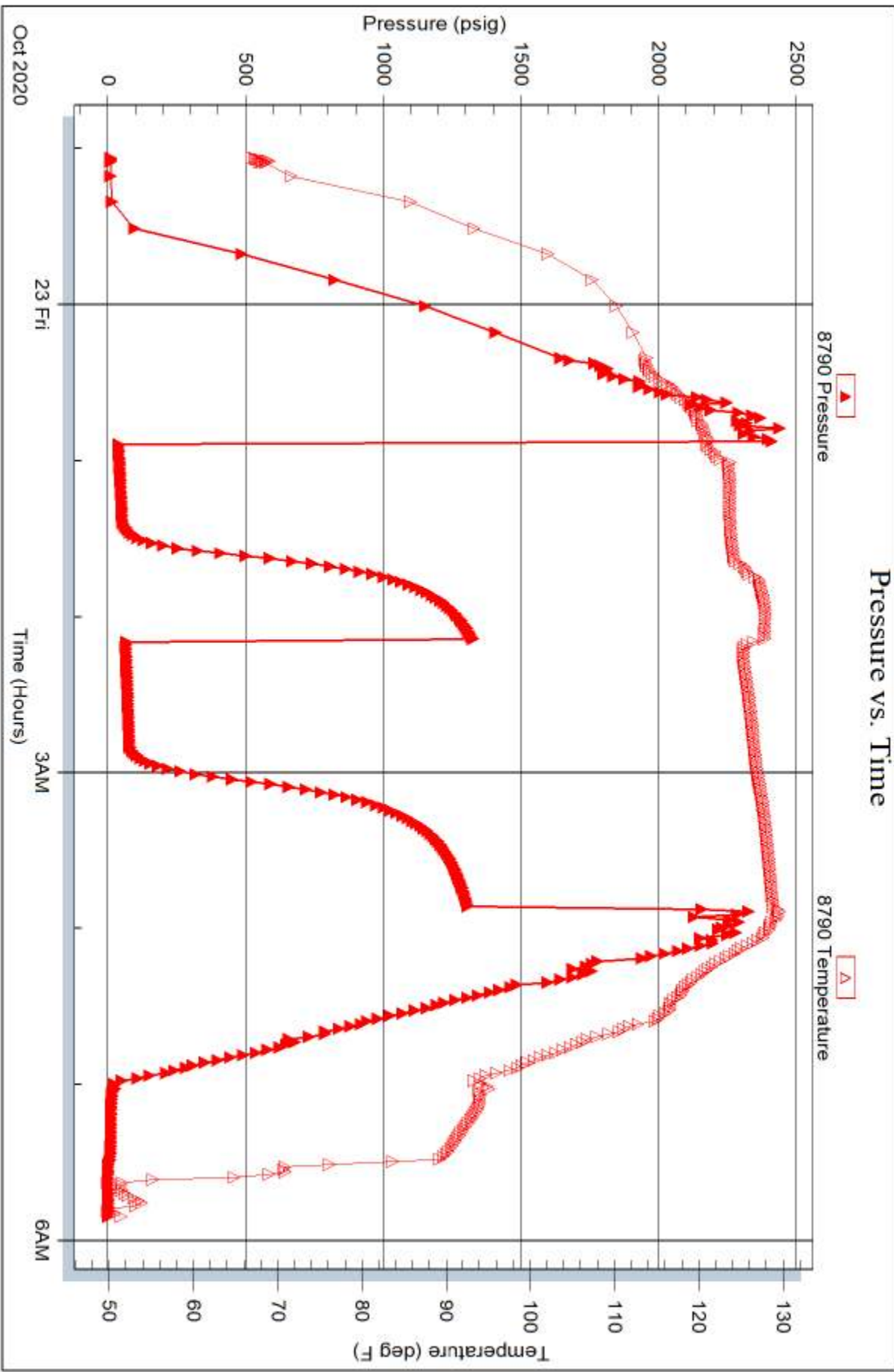
Serial #: 8790

Inside

Chizum Oil LLC

Quenzer 3-27

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 66783

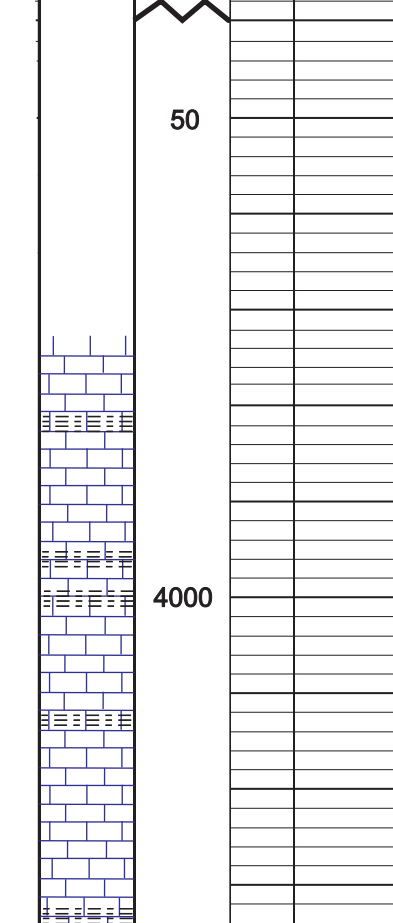
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GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **CHIZUM OIL, LLC** ELEVATIONS
 LEASE **Quinn #3-27** K9 3468'
 FIELD **Wildcat** 1450' FEL DF _____
 LOCATION **2453' FEL, 1450' FEL** GL 3463'
 SEC **27** T1WSP **7S** R9E **37W**
 COUNTY **Sherman** STATE **Kansas** Measurements Are All From **KB**
 CONTRACTOR **W.W. Drilling, Rig #10**
 SPUD **10-15-20** COMP **10-24-20**
 RTD **4920'** LTD **4921'** CASING
 MUD UP **2600'** TYPE MUD **Chemical** CONDUCTION **N/A**
 SAMPLES SAVED FROM **3950'** to **RTD** SURFACE **8-5/8" @ 346'**
 DRILLING TIME KEPT FROM **3950'** to **RTD** PRODUCTION **3-1/2 @ 920'**
 SAMPLES EXAMINED FROM **3950'** to **RTD** ELECTRICAL SURVEYS
 GEOLOGICAL SUPERVISION FROM **41000'** to **RTD** CND/D/SP/P.E.
 GEOLOGIST ON WELL **Tim Priest** Micro

FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	3018 (+450)	3018 (+450)
Heebner Shale	4210 (-742)	4212 (-744)
Austin	4258 (-790)	4260 (-792)
Stark	4476 (-1008)	4474 (-1006)
Marmaton	4588 (-1120)	4588 (-1120)
Fort Scott	4723 (-1255)	4723 (-1255)
Mississippi	4760 (-1292)	4760 (-1292)



REMARKS Production casing was set to further test the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-181-20640

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