

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				

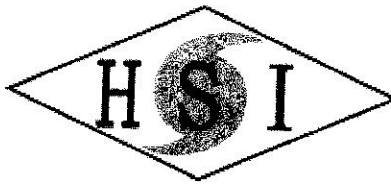
1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted 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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HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

CHIZUM OIL LLC
PO BOX 123
ANDOVER, KS 67002-0123

Invoice Date: 12/17/2019
Invoice #: 0345740
Lease Name: Quenzer
Well #: 2-27 (New)
County: Sherman
Job Number: ICT2977
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface Casing	0.000	0.000	0.00
Cement pump 266	1.000	637.500	637.50
Light Eq Mileage	50.000	1.700	85.00
Heavy Eq Mileage	50.000	3.400	170.00
Ton Mileage	680.000	1.275	867.00
H-325	275.000	17.000	4,675.00

Total 6,434.50

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

CHIZUM OIL LLC
PO BOX 123
ANDOVER, KS 67002-0123

Invoice Date: 1/3/2020
Invoice #: 0346040
Lease Name: Quenzer
Well #: 2-27 (New)
County: Sherman
Job Number: ICT3056
District: Oakley

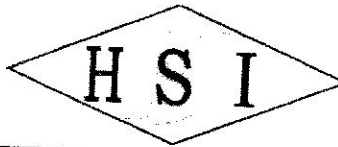
Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Cement pump #231	1.000	637.500	637.50
Heavy Eq Mileage	45.000	3.400	153.00
Light Eq Mileage	45.000	1.700	76.50
Ton Mileage	334.080	1.275	425.95
HSC Blend	140.000	20.400	2,856.00
Mud flush	500.000	1.573	786.25
5 1/2" Turbolizers	5.000	68.000	340.00
5 1/2" Floatshoe-Flapper AFU	1.000	318.750	318.75
5 1/2" LD Plug & Baffle	1.000	297.500	297.50
Cement baskets 5 1/2"	1.000	255.000	255.00

Total 6,146.45

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



CEMENT TREATMENT REPORT

Customer: Chizum Oil LLC	Well: Quenzer 2-27	Ticket: ICT 3056
City, State:	County: Sherman KS	Date: 1/3/2020
Field Rep:	S-T-R: 27-7-37	Service: Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5009 ft
Casing Size:	5 1/2 in
Casing Depth:	4884 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	118.2 bbls

Calculated Slurry	
Weight:	14.6 # / sx
Water / Sx:	gal / sx
Yield:	1.55 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	38.6 bbls
Total Sacks:	140 sx

Product	% / #	#
Class A		
Poz		
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		-

TIME	RATE	PSI	BBLs	REMARKS
500P				ON LOCATION
515P				SAFETY MEETING
530P				GET THE FOLLOWING FROM CO MAN 7 7/8 OPEN HOLE 5009 FT TD 4884 FT TOTAL PIPE 5 1/2 14# CASING VERIFIED ON TR
				RACK 39 FT SHOE JOINT 8 5/8 SURFACE SET @ 342 FT BASKET TOP OF JOINT 1 TURBOLIZERS ON 2, 4, 6, 8, 10
815P				RIG UP
930P				CASING ON BOTTOM
1030P				CIRCULATE 1 HR
1050P	2.5	210.0	5.0	H2O AHEAD
1052P	2.5	220.0	12.0	MUDFLUSH
1058P	2.5	210.0	5.0	H2O SPACER
1100P	4.0	200.0	38.6	CEMENT 90 SKS HSC DOWN CASING 50 SKS HSC TO PLUG RATHOLE
1120P				WASH PUMP & LINES
1122P				DROP LATCH DOWN PLUG
1125P	4.0	120.0	25.0	DISPLACE H2O
1137P	3.3	70.0	25.0	DISPLACE H2O
1148P	3.4	80.0	25.0	DISPLACE H2O
1156P	3.2	450.0	25.0	DISPLACE H2O
1159P	2.8	650.0	10.0	DISPLACE H2O
1202A	0.5	760.0	9.0	DISPLACE H2O
1203A		1,150.0		PLUG LANDED
1205A				CHECK FLOATS THEY HELD
1210A				WASH UP
1215A				RIG DOWN
1245A				LEFT LOCATION

CREW		UNIT
Cementer:	Jimmie Cottrell	73
Pump Operator:	Cory Davis	231
Bulk #1:	Jeff Jackson	294
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
2.87 bpm	375 psi	180 bbls



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil
 346 S Lulu St
 Wichita, Ks 67211
 ATTN: Tim Priest

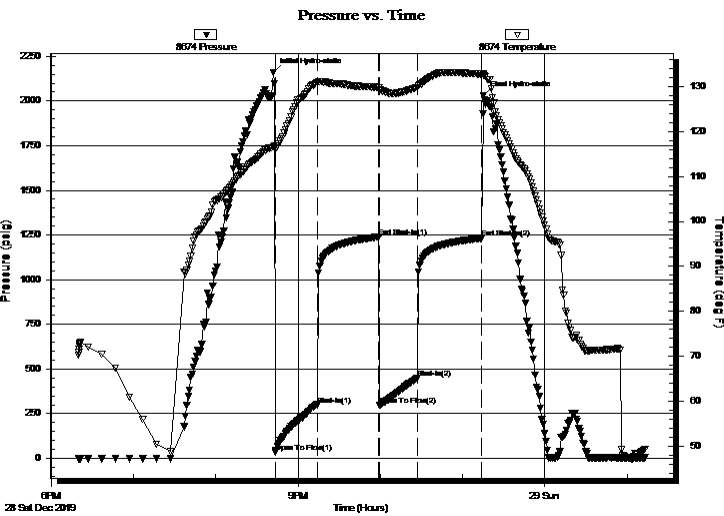
24-7-37 Sherman, Ks
Quenzer 2-27
 Job Ticket: 66131 **DST#: 1**
 Test Start: 2019.12.28 @ 18:19:52

GENERAL INFORMATION:

Formation: **Toronto- B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:43:22
 Time Test Ended: 01:13:22
 Interval: **4198.00 ft (KB) To 4300.00 ft (KB) (TVD)**
 Total Depth: 4300.00 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: 3458.00 ft (KB)
 3453.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 450.23 psig @ 4203.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.12.28 End Date: 2019.12.29 Last Calib.: 2019.12.29
 Start Time: 18:19:57 End Time: 01:13:21 Time On Btm: 2019.12.28 @ 20:41:52
 Time Off Btm: 2019.12.28 @ 23:15:22

TEST COMMENT: IF: BOB in 7 min. 42"
 IS: No return.
 FF: BOB in 9 mins. 34"
 FS: No return. 30-45-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2159.91	116.59	Initial Hydro-static
2	33.19	116.04	Open To Flow (1)
32	300.20	130.87	Shut-In(1)
77	1239.07	129.85	End Shut-In(1)
78	296.40	129.23	Open To Flow (2)
105	450.23	129.82	Shut-In(2)
152	1231.78	132.78	End Shut-In(2)
154	2029.02	132.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
441.00	mcw 95%w 5%m	5.07
252.00	w cm 60%w 40%m	3.53
272.00	mud 100%m	3.82

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66131 **DST#: 1**
Test Start: 2019.12.28 @ 18:19:52

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: 40000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
441.00	mcw 95%w 5%m	5.066
252.00	w cm 60%w 40%m	3.535
272.00	mud 100%m	3.815

Total Length: 965.00 ft Total Volume: 12.416 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

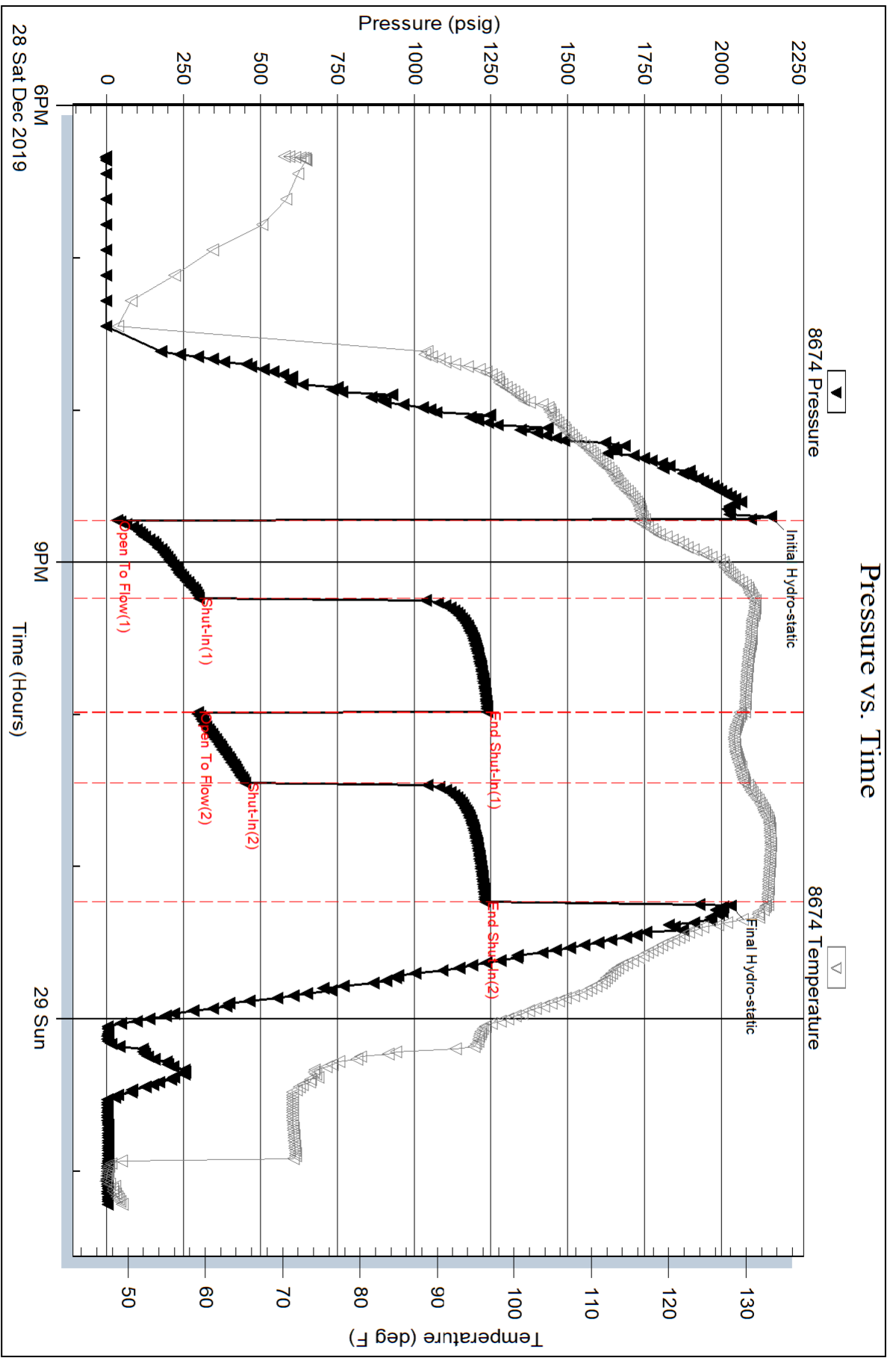
Recovery Comments: .23@50=40000

Serial #: 8674

Outside Chizum Oil

Quenzer 2-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66131

Printed: 2019.12.29 @ 07:22:06

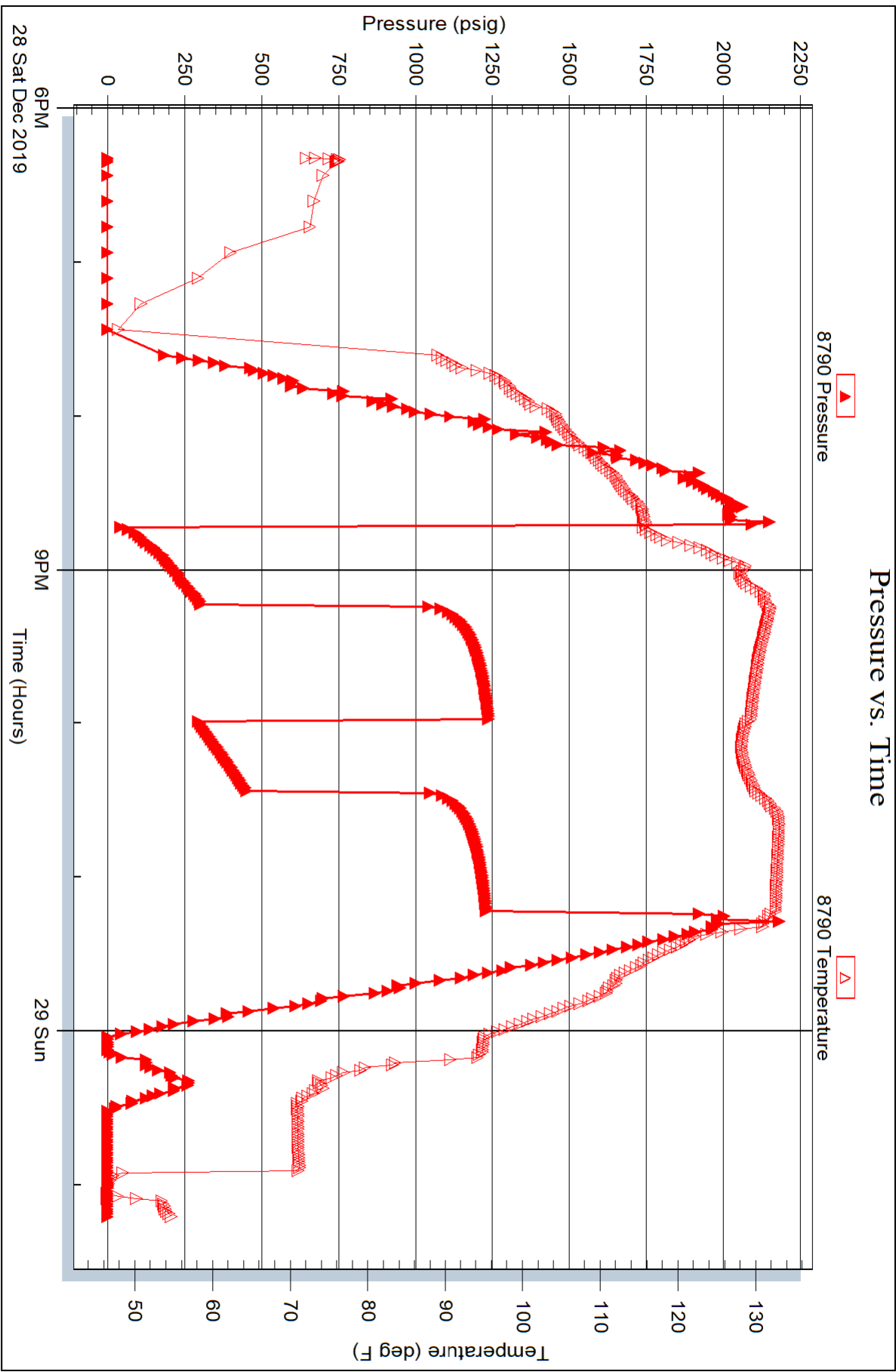
Serial #: 8790

Inside

Chizum Oil

Quenzer 2-27

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chizum Oil
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

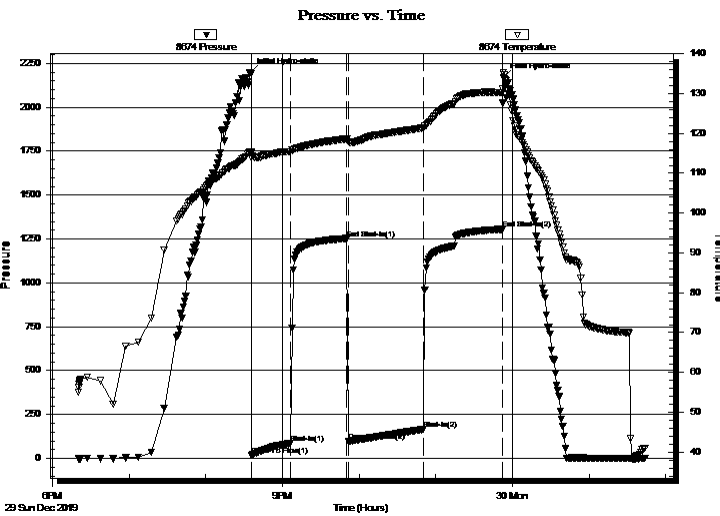
24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66132 **DST#: 2**
Test Start: 2019.12.29 @ 18:20:28

GENERAL INFORMATION:

Formation: **H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:35:58
Time Test Ended: 01:43:58
Interval: **4378.00 ft (KB) To 4460.00 ft (KB) (TVD)**
Total Depth: 4460.00 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: 3458.00 ft (KB)
3453.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
Press@RunDepth: 165.59 psig @ 4383.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.12.29 End Date: 2019.12.30 Last Calib.: 2019.12.30
Start Time: 18:20:33 End Time: 01:43:57 Time On Btm: 2019.12.29 @ 20:34:58
Time Off Btm: 2019.12.29 @ 23:52:58

TEST COMMENT: IF: 1/4 blow built to 7 3/4.
IS: Surface blow built to 1/2.
FF: BOB in 53 min. 11
FS: Surface blow built to 1/4. 30-45-60-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2197.91	115.30	Initial Hydro-static
1	18.50	113.81	Open To Flow (1)
32	85.63	115.45	Shut-In(1)
76	1252.47	118.65	End Shut-In(1)
77	96.90	117.98	Open To Flow (2)
136	165.59	121.40	Shut-In(2)
197	1304.80	130.20	End Shut-In(2)
198	2166.01	135.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	water 100%w	1.49
129.00	mcw 90%w 10%m	1.81

* 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
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66132 **DST#: 2**
Test Start: 2019.12.29 @ 18:20:28

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: 36000 ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	water 100%w	1.489
129.00	mcw 90%w 10%m	1.810

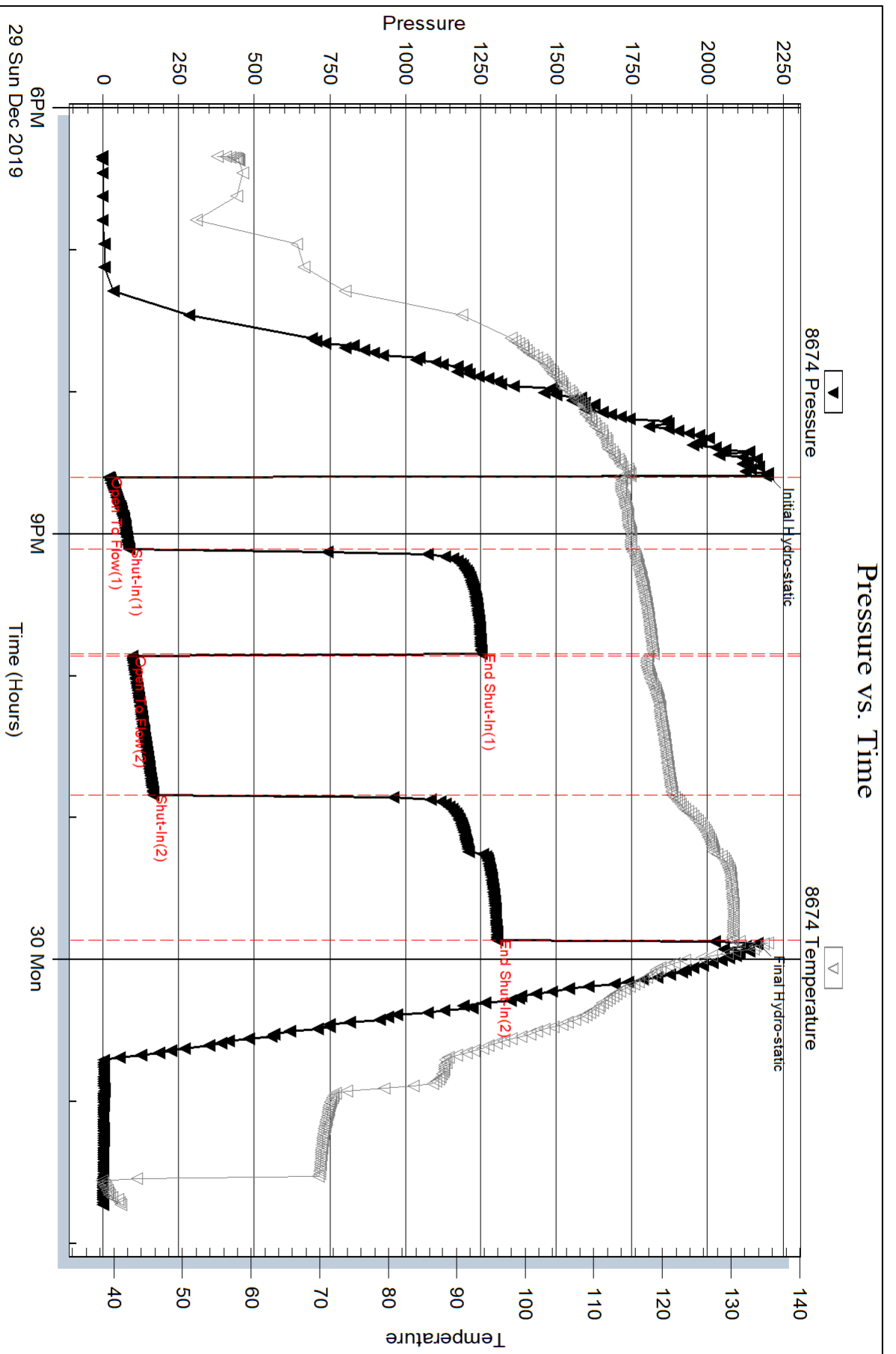
Total Length: 315.00 ft Total Volume: 3.299 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .40@35=36000

Serial #: 8674

Outside Chizum Oil

Quenzer 2-27

DST Test Number: 2



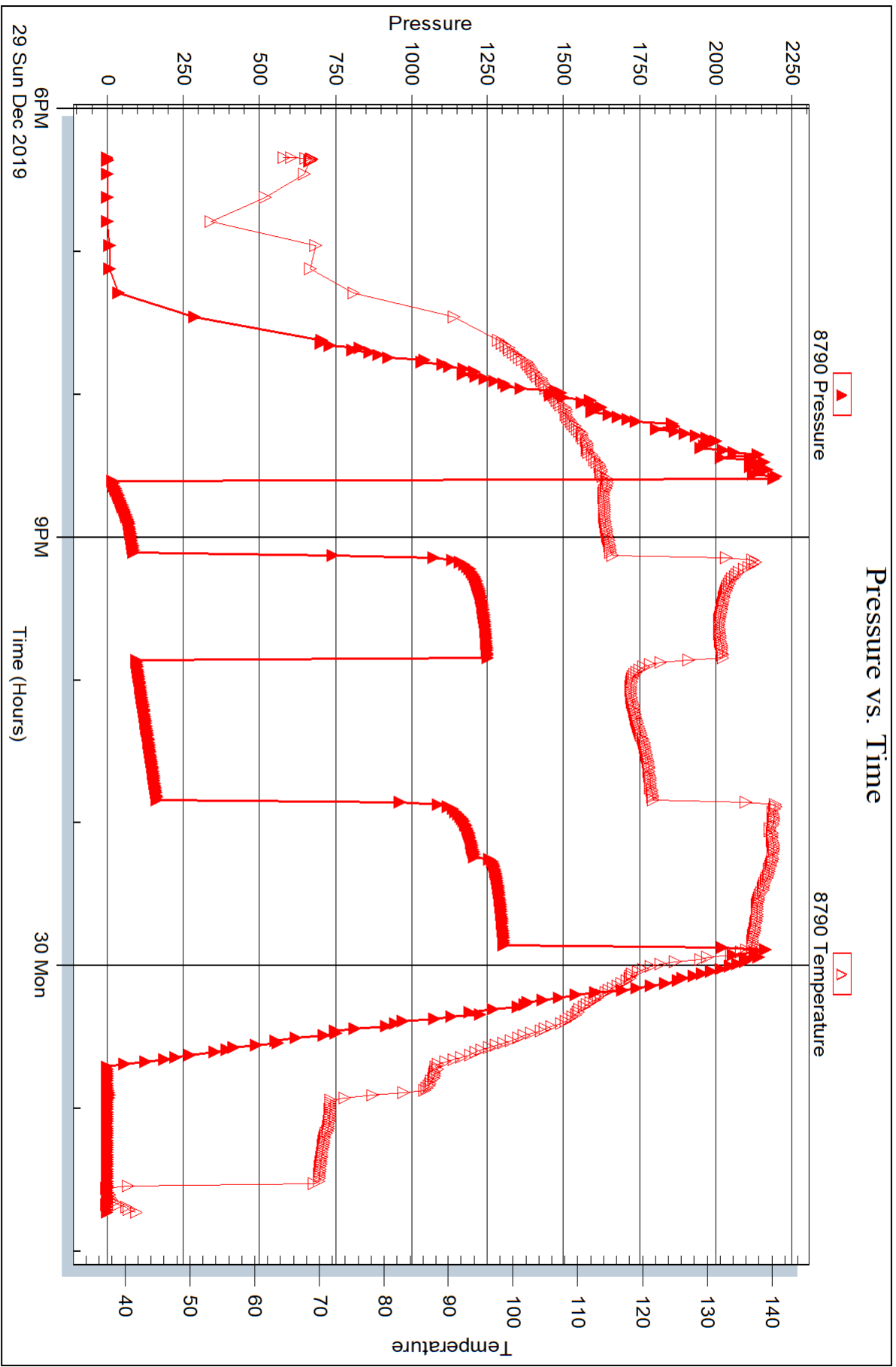
Serial #: 8790

Inside

Chizum Oil

Quenzer 2-27

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 66132

Printed: 2019.12.30 @ 07:18:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66133 **DST#: 3**
Test Start: 2019.12.30 @ 12:10:13

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: 25000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mw 50%w 50%m	0.305
61.00	ocw m 5%o 10%w 85%m	0.300

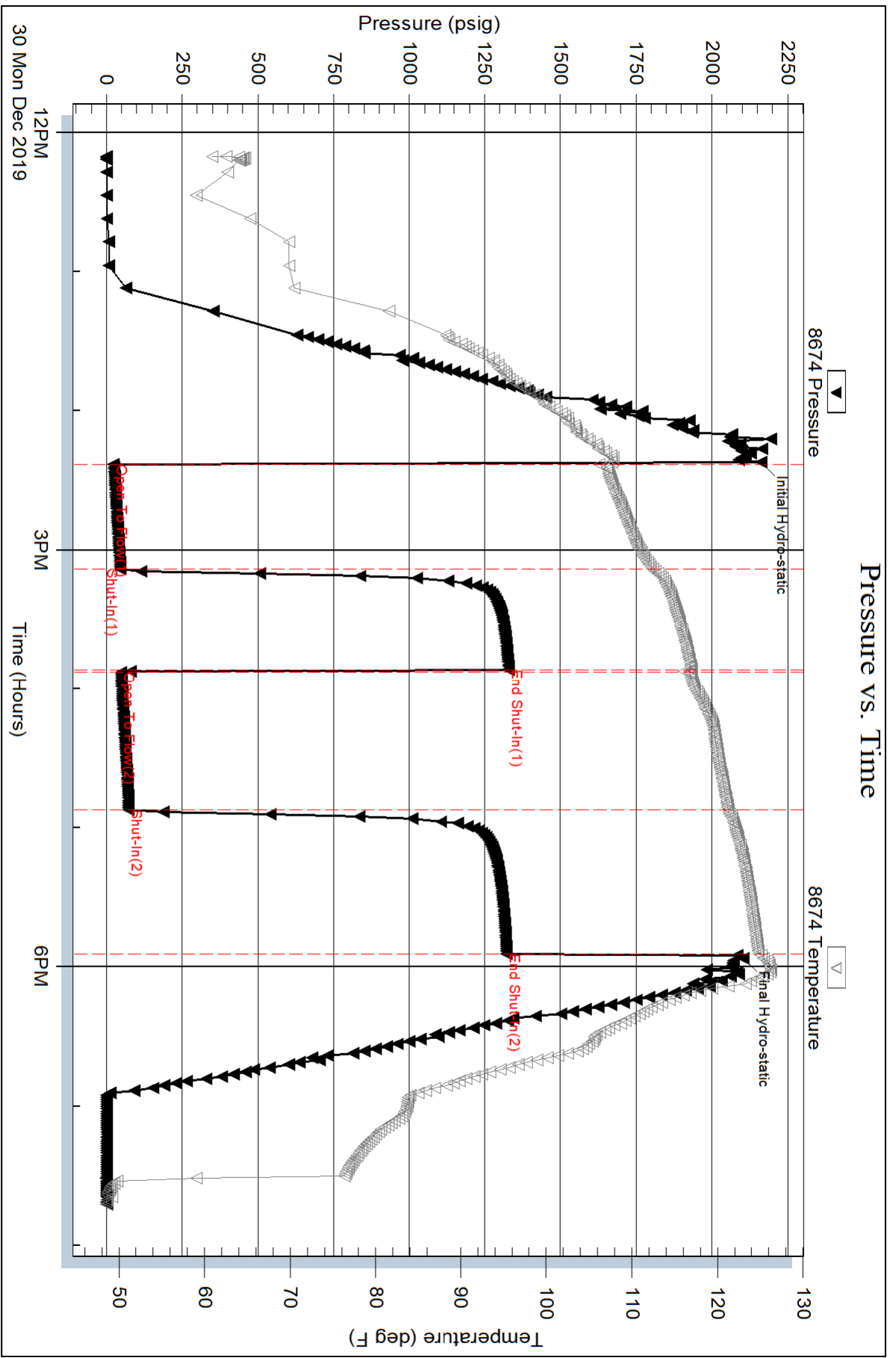
Total Length: 123.00 ft Total Volume: 0.605 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .55@35=25000

Serial #: 8674

Outside Chizum Oil

Quenzer 2-27

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66133

Printed: 2019.12.30 @ 22:04:48

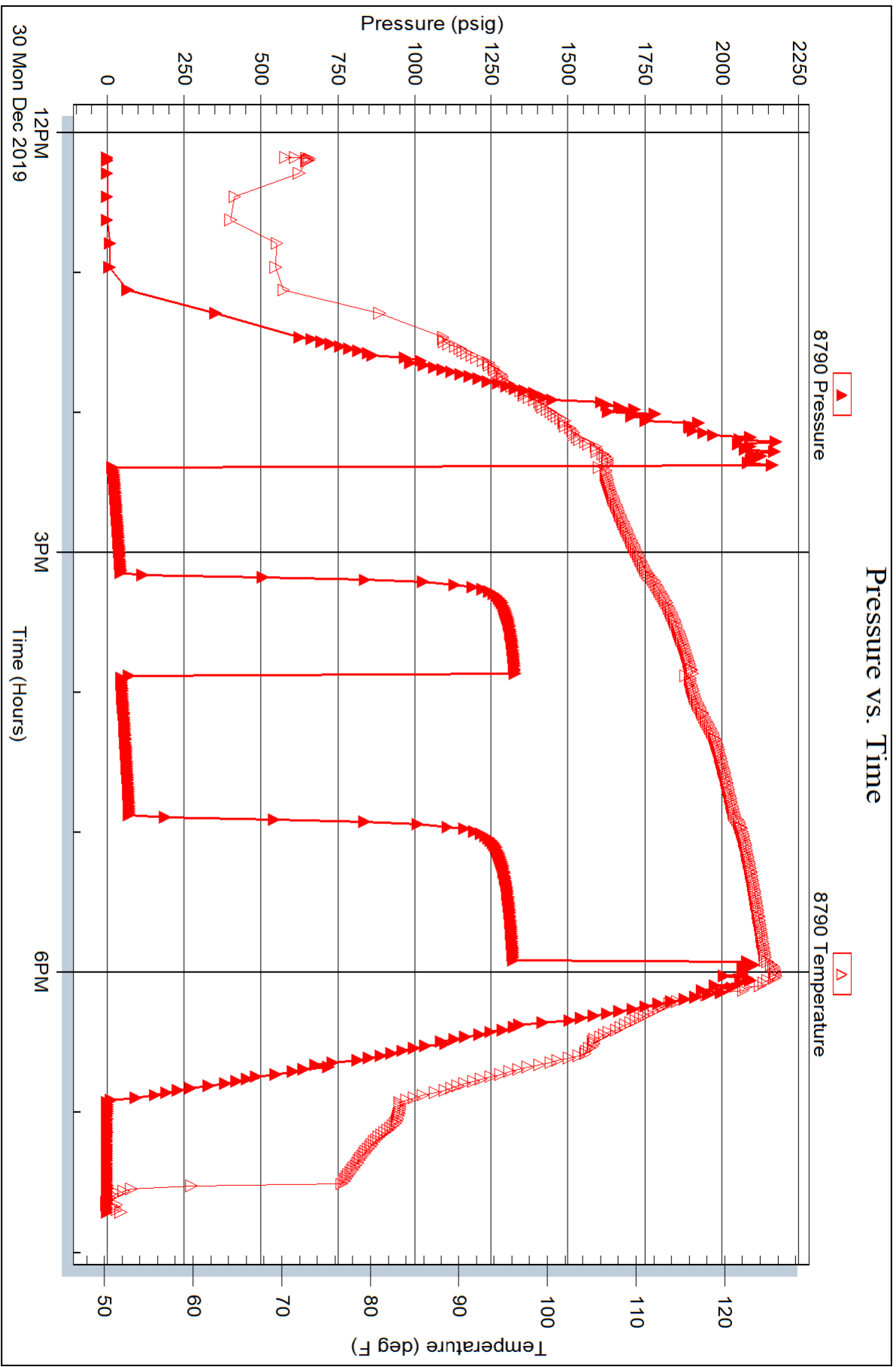
Serial #: 8790

Inside

Chizum Oil

Quenzer 2-27

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil
 346 S Lulu St
 Wichita, Ks 67211
 ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
 Job Ticket: 66134 **DST#: 4**
 Test Start: 2019.12.31 @ 03:30:48

GENERAL INFORMATION:

Formation: **L**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **05:15:18** Tester: **Brandon Turley**
 Time Test Ended: **11:01:18** Unit No: **79**
Interval: 4501.00 ft (KB) To 4550.00 ft (KB) (TVD) Reference Elevations: **3458.00 ft (KB)**
 Total Depth: **4550.00 ft (KB) (TVD)** **3453.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

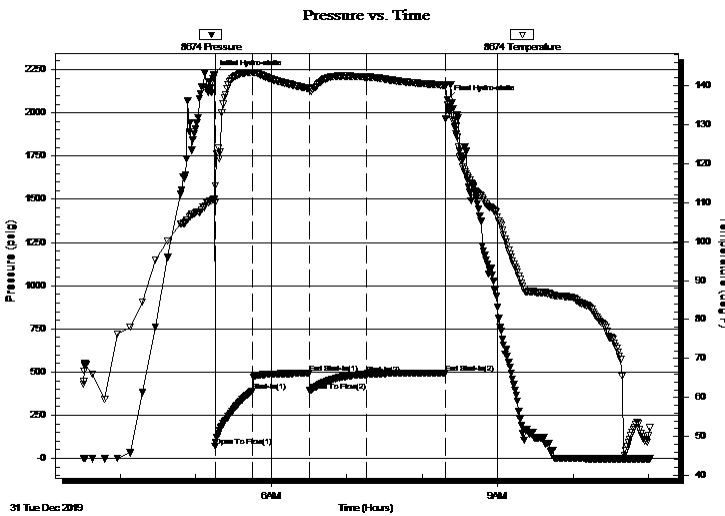
Serial #: 8674

Outside

Press@RunDepth: **488.63 psig @ 4506.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2019.12.31** End Date: **2019.12.31** Last Calib.: **2019.12.31**
 Start Time: **03:30:53** End Time: **11:01:17** Time On Btm: **2019.12.31 @ 05:14:18**
 Time Off Btm: **2019.12.31 @ 08:19:48**

TEST COMMENT: IF: BOB in 3 min. 87
 IS: Surface blow built to 3.
 FF: BOB in 11 min. 18
 FS: Surface blow built to 6 1/2. 30-45-45-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.06	110.80	Initial Hydro-static
1	72.35	109.94	Open To Flow (1)
31	390.05	143.35	Shut-In(1)
76	493.33	139.24	End Shut-In(1)
77	391.53	139.15	Open To Flow (2)
121	488.63	142.18	Shut-In(2)
184	493.42	140.11	End Shut-In(2)
186	2077.58	135.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	mcw 95%w 5%m	4.18
126.00	gocmw 10%g 10%o 50%w 30%m	1.77
315.00	gocmw 10%g 10%o 70%w 10%m	4.42
220.00	go 20%g 80%o	3.09
0.00	347 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

Chizum Oil
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66134 **DST#: 4**
Test Start: 2019.12.31 @ 03:30:48

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 38000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

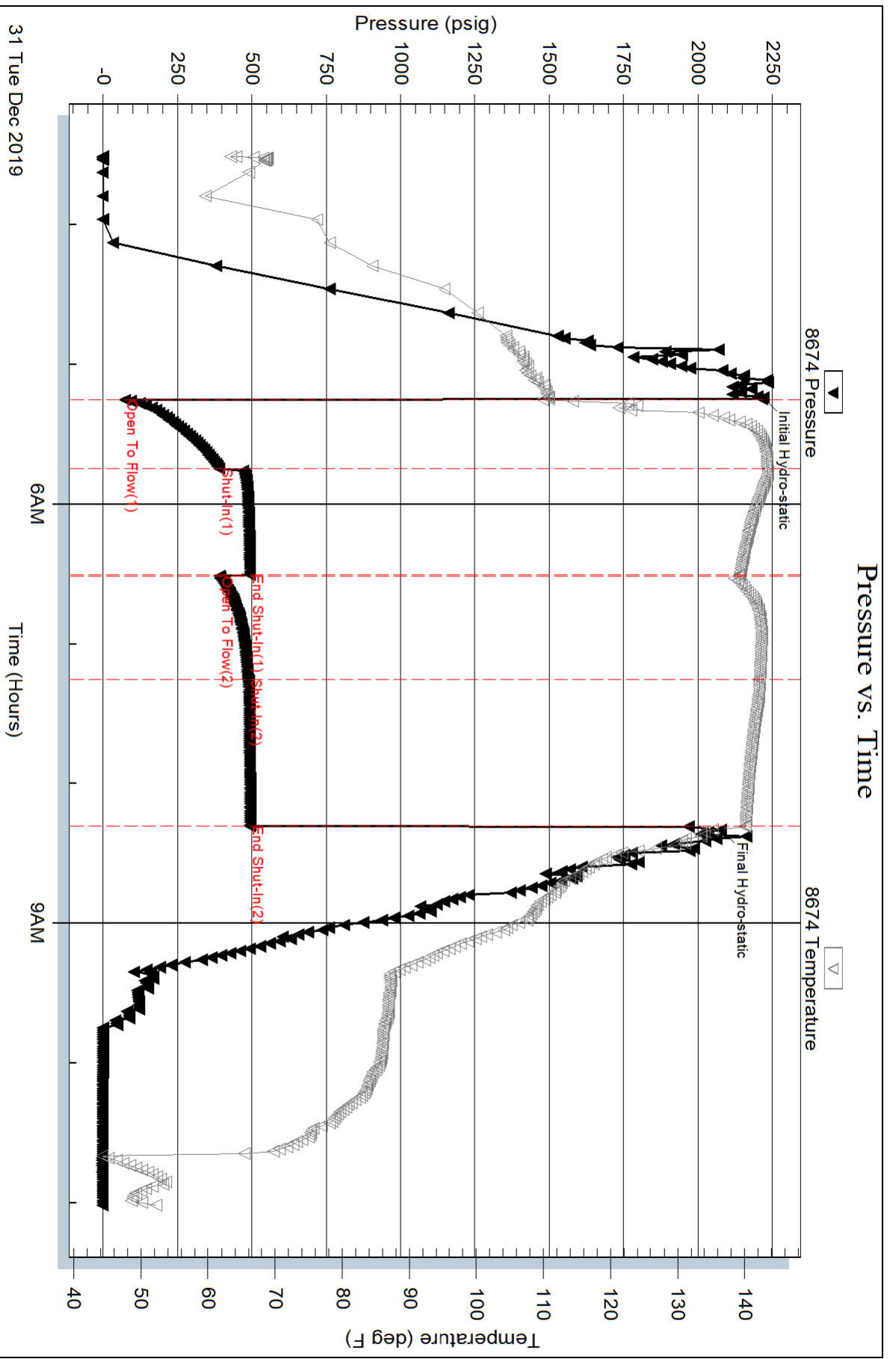
Length ft	Description	Volume bbl
378.00	mcw 95%w 5%m	4.182
126.00	gocmw 10%g 10%o 50%w 30%m	1.767
315.00	gocmw 10%g 10%o 70%w 10%m	4.419
220.00	go 20%g 80%o	3.086
0.00	347 GIP	0.000

Total Length: 1039.00 ft Total Volume: 13.454 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 35@30=38
.38@35=38000



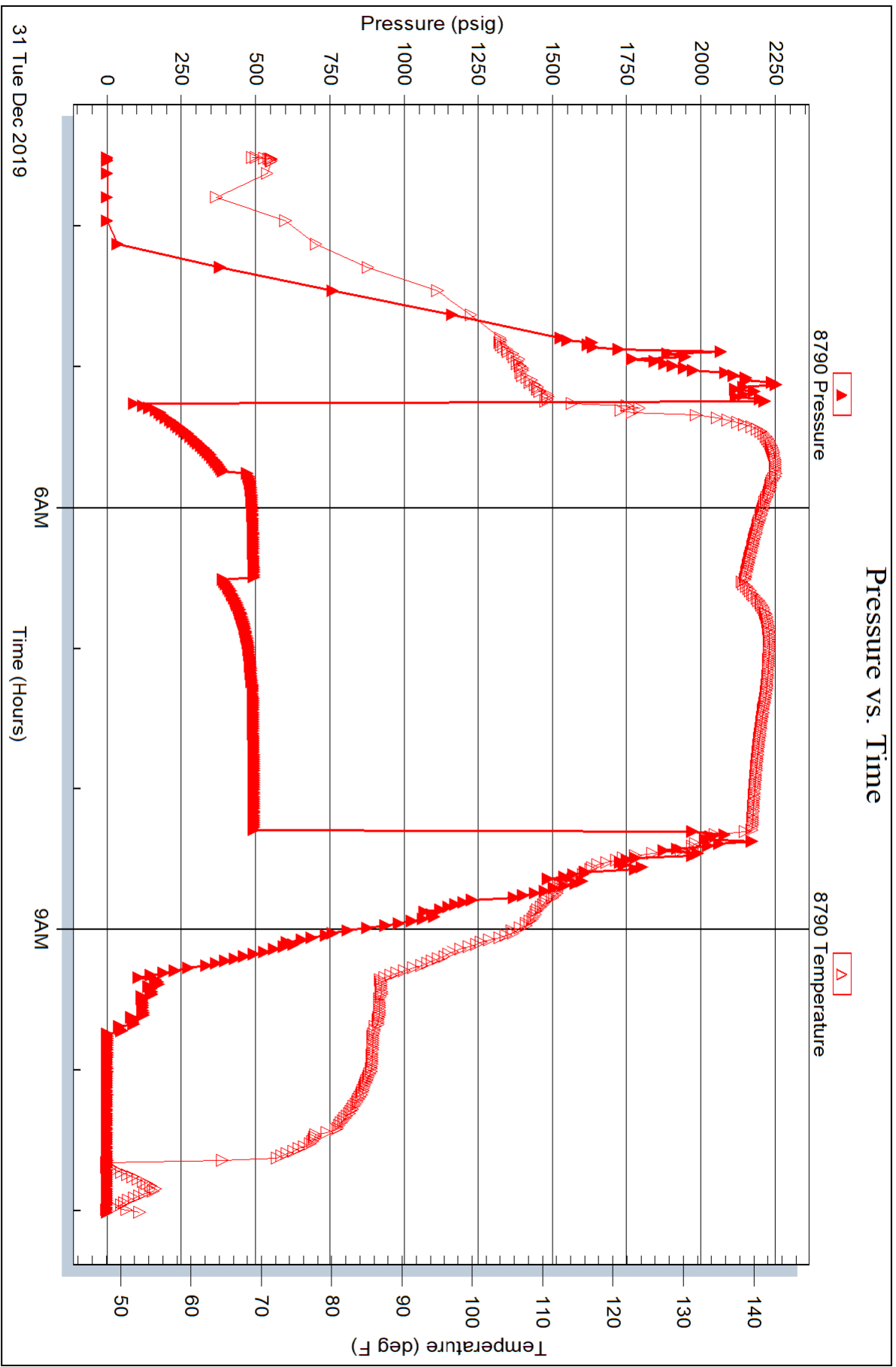
Serial #: 8790

Inside

Chizum Oil

Quenzer 2-27

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66135 **DST#: 5**
Test Start: 2019.12.31 @ 21:29:07

Mud and Cushion Information

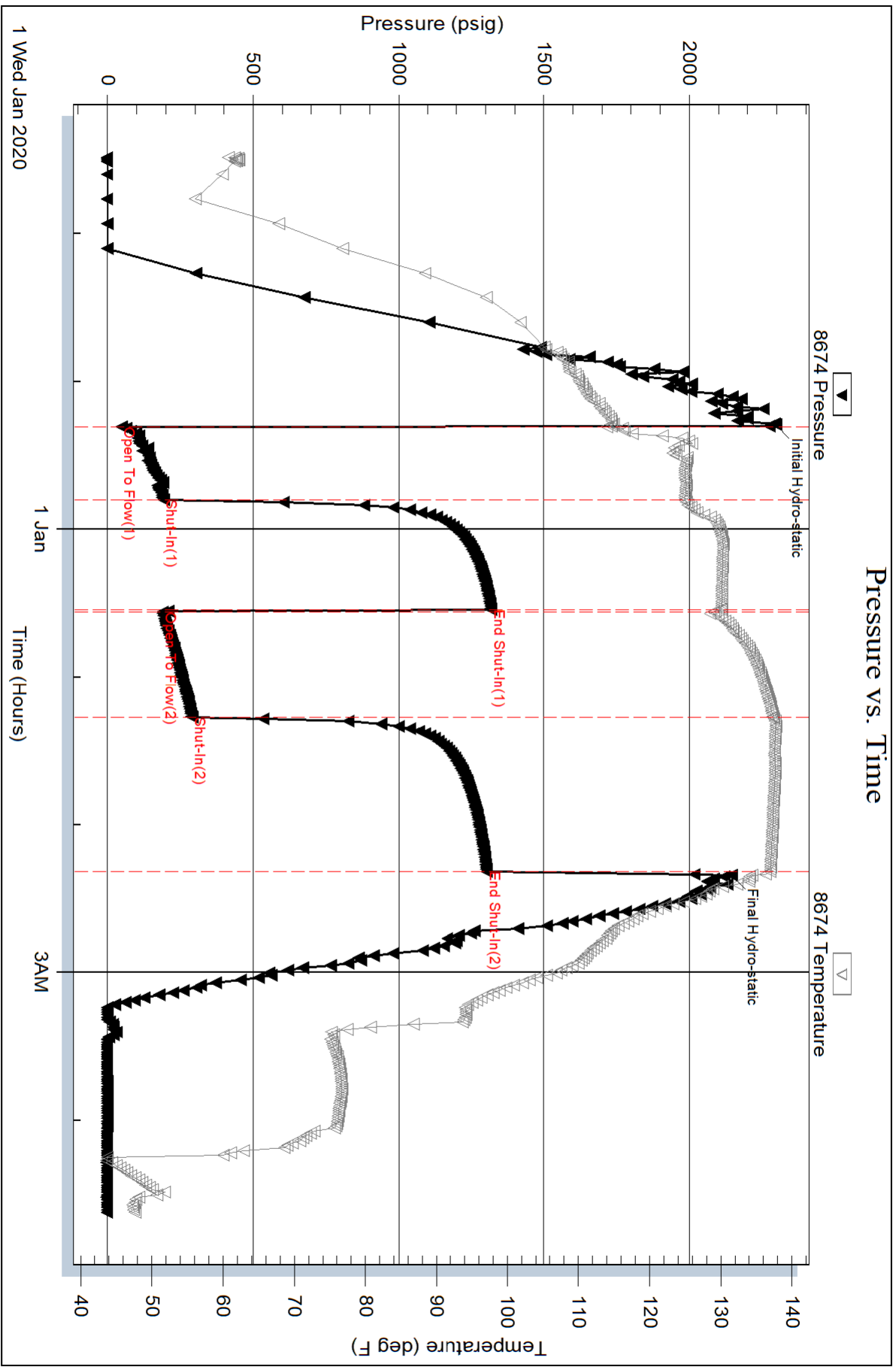
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 24000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	ocmw 5%o 85%w 10%m	1.531
252.00	gocw m 20%g 10%o 10%w 60%m	3.535
199.00	gocm 30%g 15%o 55%m	2.791

Total Length: 640.00 ft Total Volume: 7.857 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .60@34=24000



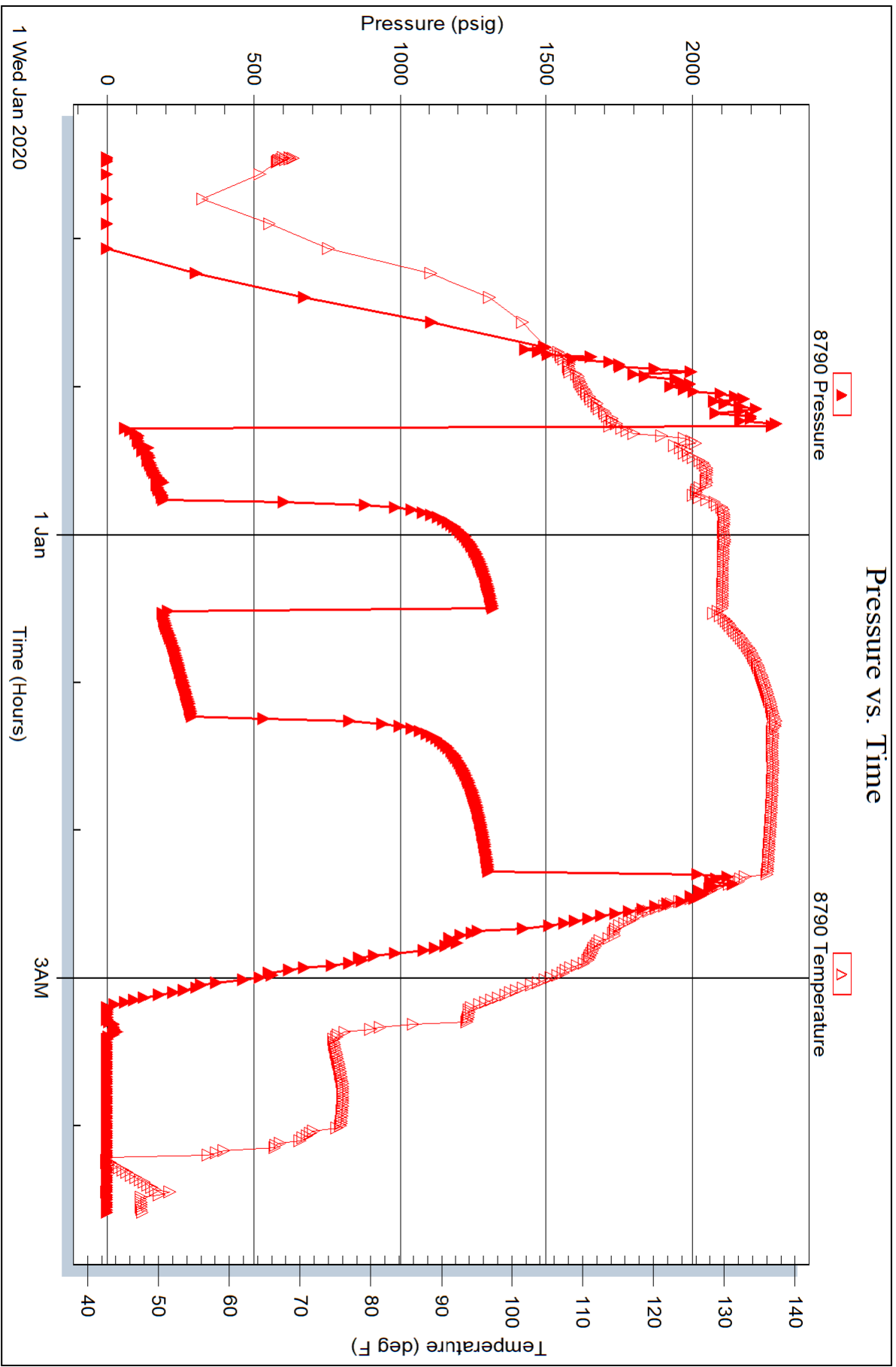
Serial #: 8790

Inside

Chizum Oil

Quenzer 2-27

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil
 346 S Lulu St
 Wichita, Ks 67211
 ATTN: Tim Priest

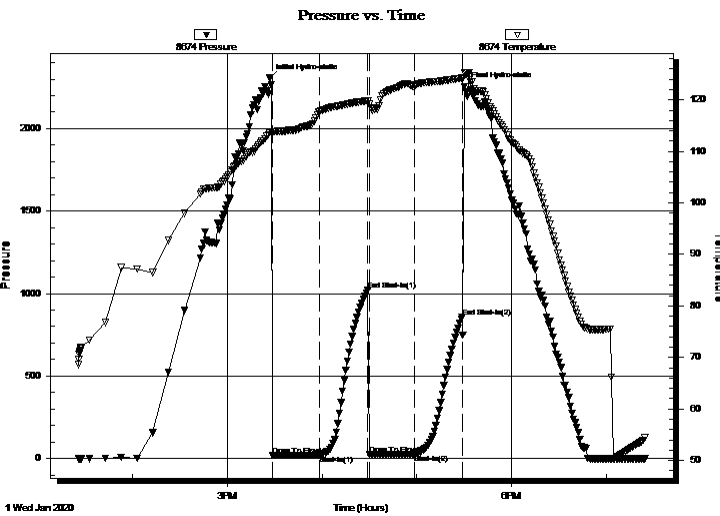
24-7-37 Sherman, Ks
Quenzer 2-27
 Job Ticket: 66136 **DST#: 6**
 Test Start: 2020.01.01 @ 13:26:06

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:28:36
 Time Test Ended: 19:24:36
 Interval: **4626.00 ft (KB) To 4675.00 ft (KB) (TVD)**
 Total Depth: 4675.00 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: 3458.00 ft (KB)
 3453.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 27.46 psig @ 4631.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.01 End Date: 2020.01.01 Last Calib.: 2020.01.01
 Start Time: 13:26:11 End Time: 19:24:35 Time On Btm: 2020.01.01 @ 15:27:06
 Time Off Btm: 2020.01.01 @ 17:30:06

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.97	113.68	Initial Hydro-static
2	17.36	113.36	Open To Flow (1)
32	22.04	117.75	Shut-In(1)
62	1022.89	119.86	End Shut-In(1)
63	24.22	119.16	Open To Flow (2)
92	27.46	122.65	Shut-In(2)
122	856.11	124.20	End Shut-In(2)
123	2254.17	125.32	Final Hydro-static

Recovery

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

* 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
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66136 **DST#: 6**
Test Start: 2020.01.01 @ 13:26:06

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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

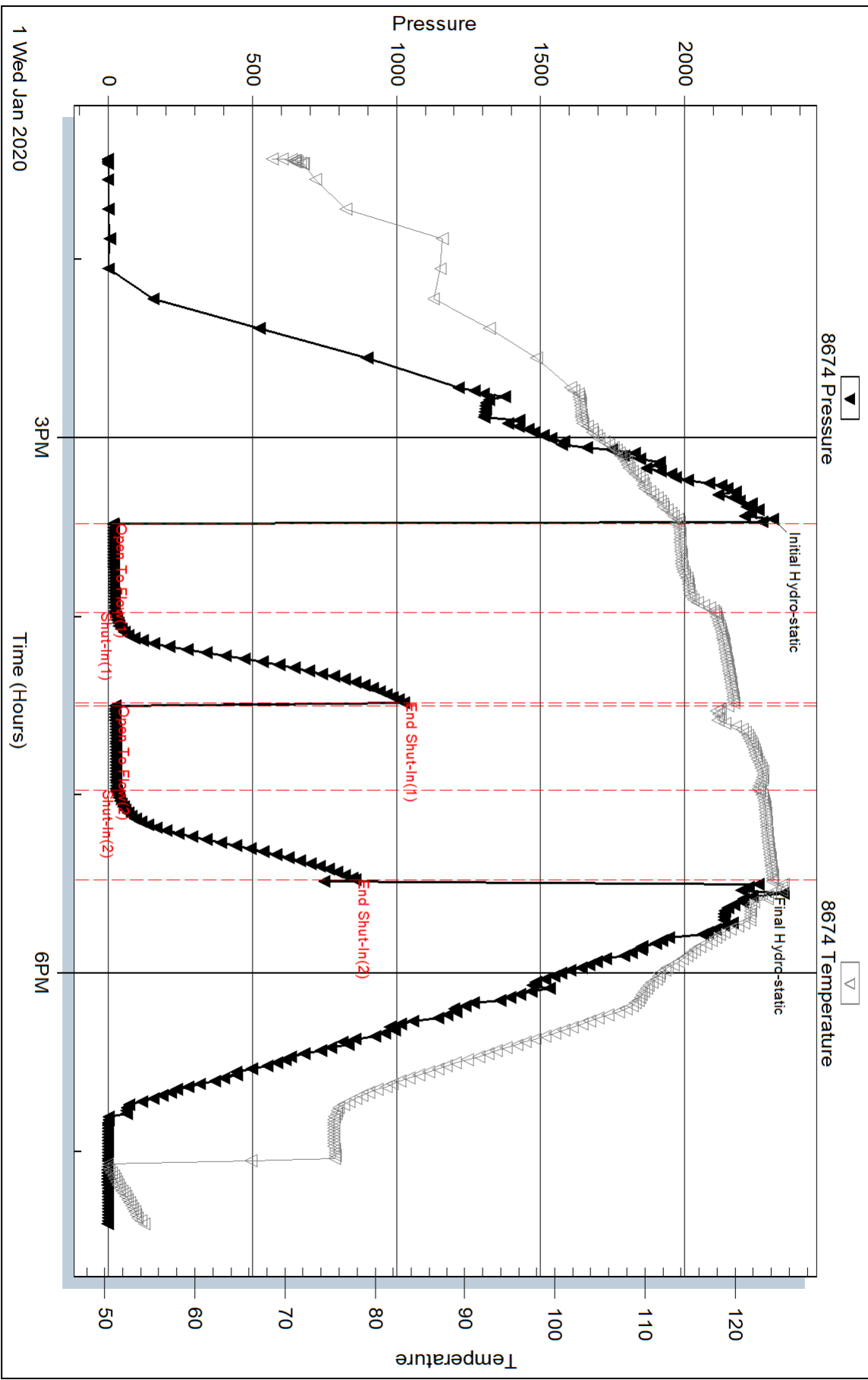
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

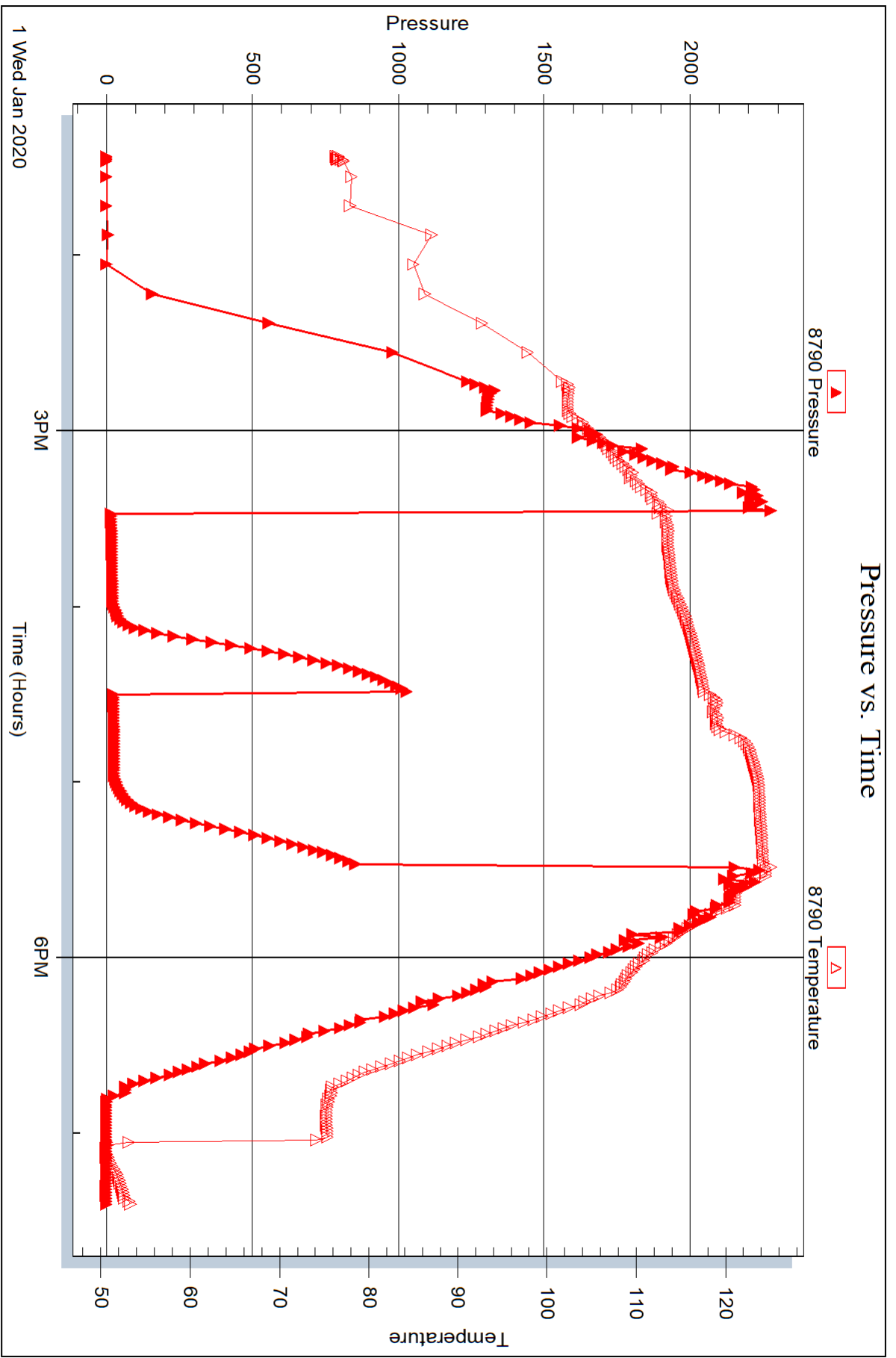


Serial #: 8790

Inside Chizum Oil

Quenzer 2-27

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 66136

Printed: 2020.01.02 @ 07:06:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil
 346 S Lulu St
 Wichita, Ks 67211
 ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
 Job Ticket: 66137 **DST#: 7**
 Test Start: 2020.01.02 @ 05:39:12

GENERAL INFORMATION:

Formation: **Myric- Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:18:42
 Time Test Ended: 12:05:12
 Interval: **4682.00 ft (KB) To 4770.00 ft (KB) (TVD)**
 Total Depth: 4770.00 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: 3458.00 ft (KB)
 3453.00 ft (CF)
 KB to GR/CF: 5.00 ft

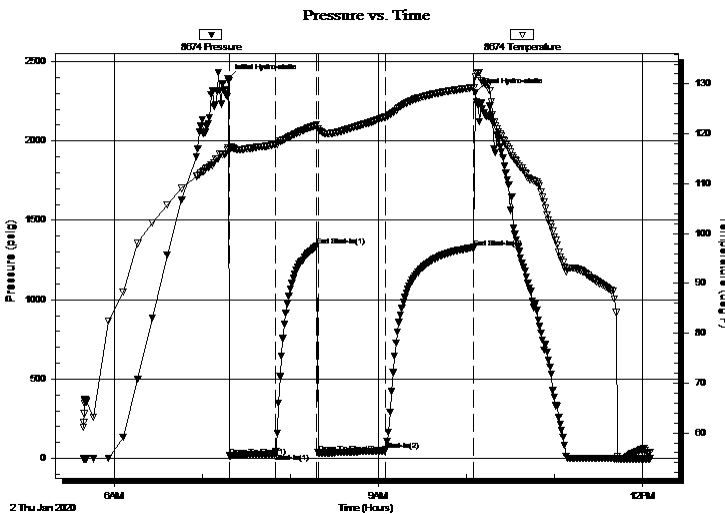
Serial #: 8674

Outside

Press@RunDepth: 49.06 psig @ 4687.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.02 End Date: 2020.01.02 Last Calib.: 2020.01.02
 Start Time: 05:39:17 End Time: 12:05:11 Time On Btm: 2020.01.02 @ 07:17:42
 Time Off Btm: 2020.01.02 @ 10:06:12

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.92	117.24	Initial Hydro-static
1	16.47	116.69	Open To Flow (1)
32	32.31	117.75	Shut-In(1)
61	1337.23	121.77	End Shut-In(1)
62	34.78	121.01	Open To Flow (2)
107	49.06	123.34	Shut-In(2)
168	1329.07	129.30	End Shut-In(2)
169	2302.51	131.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	mcw 60%w 40%m	0.32

* 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
346 S Lulu St
Wichita, Ks 67211
ATTN: Tim Priest

24-7-37 Sherman, Ks
Quenzer 2-27
Job Ticket: 66137 **DST#: 7**
Test Start: 2020.01.02 @ 05:39:12

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: bbl	
Water Loss: 9.59 in ³	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 bbl
65.00	mcw 60%w 40%m	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .55@45=19000

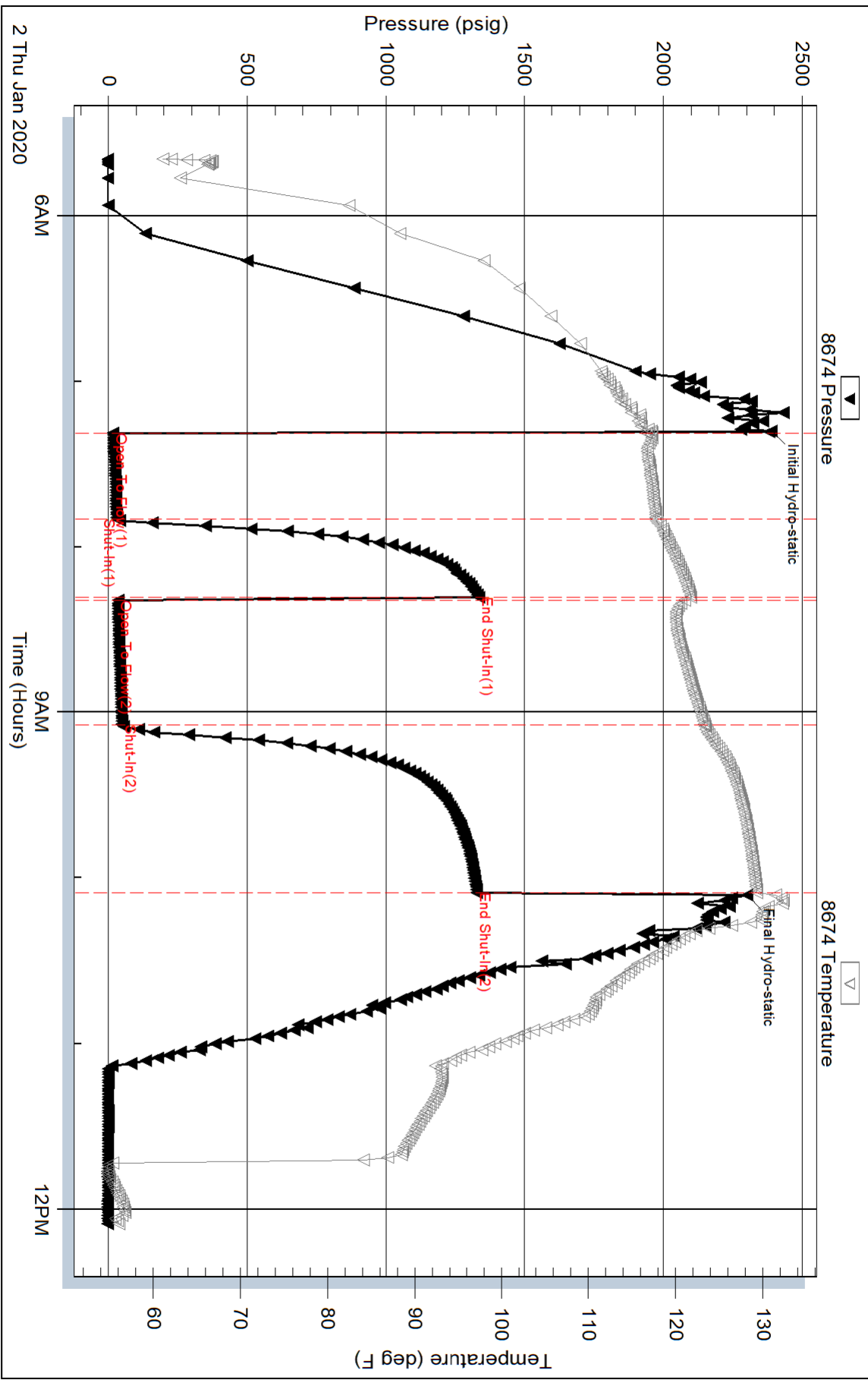
Serial #: 8674

Outside Chizum Oil

Quenzer 2-27

DST Test Number: 7

Pressure vs. Time



Serial #: 8790

Inside

Chizum Oil

Quenzer 2-27

DST Test Number: 7

