

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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250 N. Water St., Suite #200
Wichita, KS 67202

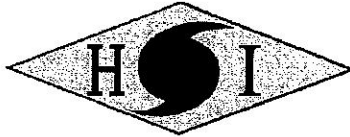


HURRICANE SERVICES INC

Customer	Chizum	Lease & Well #	Gaskill 1-36	Date	9/10/2019	
Service District	Oakley ks	County & State	Sherman Ks	Legals S/T/R	36/7/37	
Job Type	Surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	Job #	
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures <input type="checkbox"/> Hard hat <input type="checkbox"/> Gloves <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Warning Signs & Flagging <input type="checkbox"/> H2S Monitor <input type="checkbox"/> Eye Protection <input type="checkbox"/> Required Permits <input type="checkbox"/> Fall Protection <input type="checkbox"/> Safety Footwear <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Slip/Trip/Fall Hazards <input type="checkbox"/> Specific Job Sequence/Expectations <input type="checkbox"/> FRC/Protective Clothing <input type="checkbox"/> Additional Chemical/Acid PPE <input type="checkbox"/> Overhead Hazards <input type="checkbox"/> Muster Point/Medical Locations <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Fire Extinguisher <input type="checkbox"/> Additional concerns or issues noted below				
		Comments All products loaded out of Oakley KS				
Product/ Service Code	Description	Unit of Measure	Quantity		Net Amount	
C010	Cement Pump	ea	1.00		\$637.50	
M010	Heavy Equipment Mileage	mi	50.00		\$170.00	
M015	Light Equipment Mileage	mi	50.00		\$85.00	
M020	Ton Mileage	tm	703.00		\$896.33	
CP015	H-325	sack	285.00		\$4,845.00	
Customer Section: On the following scale how would you rate Hurricane Services Inc.?					Net:	\$6,633.83
Based on this job, how likely is it you would recommend HSI to a colleague? <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"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely					Total Taxable \$ - Tax Rate: 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: \$ 6,633.83	
HSI Representative: <i>Walt Dunkel</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	Well: Gaskill 1-36	Ticket: ICT2372
City, State:	County: Sherman Ks	Date: 9/10/2019
Field Rep:	S-T-R: 36/7/37	Service: Surface

Downhole Information		Calculated Slurry		Product		
Hole Size:	12 1/4 in	Weight:	14.8 # / sx	Class A	% / #	#
Hole Depth:	368 ft	Water / Sx:	gal / sx	Poz		
Casing Size:	8 5/8 in	Yield:	1.41 ft ³ / sx	Gel		
Casing Depth:	368 ft	Bbls / Ft.:		CaCl		
Tubing / Liner:	in	Depth:	ft	Gypsum		
Depth:	ft	Annular Volume:	0 bbls	Metso		
Tool / Packer:		Excess:		Koi Seal		
Depth:	ft	Total Slurry:	0.0 bbls	Flo Seal		
Displacement:	22.0 bbls	Total Sacks:	285 sx	Salt (bww)		

TIME	RATE	PSI	BBLs	REMARKS
6:00 PM				Arrive
6:00 PM				Safety meeting
6:15 PM				Rig up
9:00 PM				Run casing
9:40 PM				Start job
10:00 PM				End job
10:30 PM				Depart

CREW			UNIT	SUMMARY		
Cementer:	Kaleb	209		Average Rate	Average Pressure	Total Fluid
Pump Operator:	Cory	181		#DIV/0! bpm	#DIV/0! psi	- bbls
Bulk #1:	Walt	86				
Bulk #2:						

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202



HURRICANE SERVICES INC

STIMULATION TREATMENT REPORT

Customer: Chizum	Well: Gaskill 1-36	Ticket: ICT2372
City, State:	County: Sherman Ks	Date: 9/10/2019
Field Rep:	S-T-R: 36/7/37	Service: Surface

Downhole Information	
Formation:	
Casing:	in
Tubing:	in
Treatment Via:	
Perforations	
Top Perf:	ft
Bottom Perf:	ft
Shots Per Foot:	spf
Total Shots:	shots

Capacity	
Casing / Tubing:	bbls/ft
Displacement:	bbls
Pressure Test	
Iron Test:	psi
Max Pressure:	psi
Proppant (#)	
20/40	12/20
16/30	8/12
Diversions	
Salt	Balls

Treatment Fluid		
Product	GPT	Gal
Water		
Gel		
Xlink		
KCl		
Biocide		
Surfactant		
Breaker		
Acid		

Time	Rate	PSI	PPG	Stage Pounds	Stage BBLs	Total BBLs	Remarks

CREW	UNIT	SUMMARY		
Treater / Foreman: Kaleb	209	Average Rate (bpm)	Max Rate (bpm)	Total Proppant (#)
Pump Operator: Cory	181	0.0	0.0	0
Sand: Walt	86	Average PSI	Max Pressure (psi)	Total Load (bbls)
Water:		0	0	0
Acid:				



HURRICANE SERVICES INC

Customer	Chizum Oil LLC		Lease Name	Gaskill #1-36		Date	9/18/2019	
Service District	Oakley, KS		County & State	Sherman Ks		Legals S/T/R	36-7S-37W	
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	Job #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures						
85	Cory Davis	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging			
209	Kaleb Compton	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection			
294	K Ochs	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations			
86	Walt Dinkel	<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 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
	Cement Pump	ea						\$637.50
	Heavy Equipment Mileage	mi						\$170.00
	Light Equipment Mileage	mi						\$85.00
	Ton Mileage	tm						\$657.90
	H-Plug	sack						\$2,652.00
	Flo-Seal	lb						\$89.25
Customer Section: On the following scale how would you rate Hurricane Services Inc.?								
Based on this job, how likely is it you would recommend HSI to a colleague?						Total Taxable	\$ -	Tax Rate:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.		
Unlikely	1	2	3	4	5	6	7	8
	9	10	Extremely Likely					
						Net:	\$4,291.65	
						Sale Tax:	\$ -	
						Total:	\$ 4,291.65	
						HSI Representative:	Cory Davis	

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 LLC	Well: Gaskill #1-36	Ticket: ICT2424
City, State: Oakley Ks	County: Sherman	Date: 9/18/2019
Field Rep:	S-T-R: 36-7S-37W	Service: cement

Downhole Information

Hole Size:	in
Hole Depth:	ft
Casing Size:	
Casing Depth:	ft
Tubing / Liner:	
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	bbbls

Slurry

Weight:	13.8 # / sx
Water / Sx:	6 8/9 gal / sx
Yield:	1 3/7 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Volume:	bbbls
Excess:	%
Total Slurry:	bbbls
Total Sacks:	240 sx

Cement Blend

Product	%	#
Class A	60.0	13160
Poz	40.0	7500
Gel	4.0	
Flo-Seal		60

Total	20,720
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TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
12:50 PM				Arrival					
12:55 PM				Safety meeting					
1:10 PM				Rig up equip					
3:45 PM	5.0	100.0	18.0	at 3010 mix 50 sks					
4:20 PM	5.0	100.0	22.0	at 2100' mix 100 sks					
5:00 PM	5.0	100.0	10.0	at 420' mix 50 sks					
5:30 PM	3.0	50.0	2.0	at 40' mix 10 sks					
5:35 PM	3.0	50.0	5.0	RH mix 30 sks					
5:45 PM	5.0		13.0	Wash up and rig down					
6:10 PM				Depart					

CREW	UNIT	SUMMARY		
Cementer:	Cory Davis	85.0	Average Rate	Average Pressure
Pump Operator:	Kaleb Compton	209.0	4.33333 bpm	80.00 psi
Bulk #1:	Kale Ochs	294.0		Total Fluid
Field Rep:	Walt Dinkel	86.0		70.00 bbbls

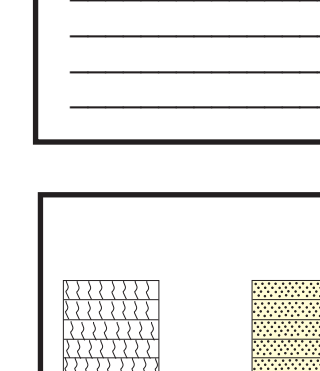
GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **CHASKILL OIL, LLC** ELEVATIONS
 LEASE **GASKILL-136** KG 3439'
 FIELD **Wildcat** DF _____
 LOCATION **2027 FSL 495' FWL** GL 3434'
 SEC **36** TWPSP **7S** ROE **37W**
 COUNTY **Sheridan** STATE **Kansas** Measurements Are All From **KB**

CONTRACTOR **WW Drilling, Rig #10**
 SPUD **9-10-19** COMP **9-18-19**
 RTD **4790'** LTD _____ CASING **N/A**
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTION _____
 SURFACE **8-5/8" @ 368'**

SAMPLES SAVED FROM **4000'** to RTD
 DRILLING TIME KEPT FROM **4000'** to RTD
 SAMPLES EXAMINED FROM **4000'** to RTD
 GEOLOGICAL SUPERVISION FROM **4000'** to RTD
 GEOLOGIST ON WELL **Tim Priest**

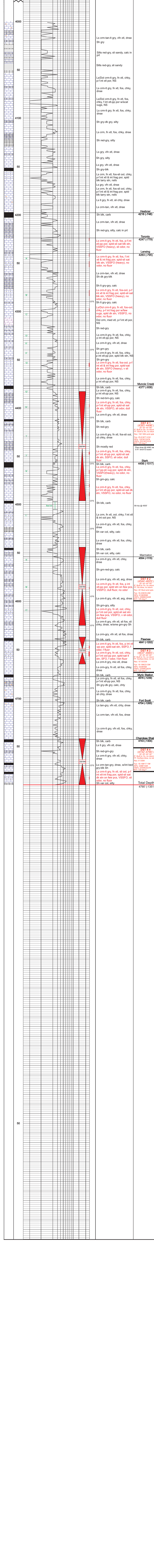
FORMATION TOPS ELECTRIC LOG SAMPLE
 Anhydrite 2989 (+450)
 Heebner Shale 4216 (-748)
 Lansing 4456 (-1017)
 Marmaton 4554 (-1115)
 Cherokee Shale 4704 (-1265)
 Fort Scott 4743 (-1304)
 Mississippian NP



REMARKS Due to the negative results of drill stem tests, it was decided to plug and abandon the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-181-20627-00-00





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64809

DST#: 1

ATTN: Tim Priest

Test Start: 2019.09.15 @ 12:46:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:40:00

Time Test Ended: 19:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4483.00 ft (KB) To 4496.00 ft (KB) (TVD)

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4496.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522

Inside

Press@RunDepth: 90.60 psig @ 4384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.15

End Date:

2019.09.15

Last Calib.:

2019.09.15

Start Time: 12:46:05

End Time:

19:34:29

Time On Btm:

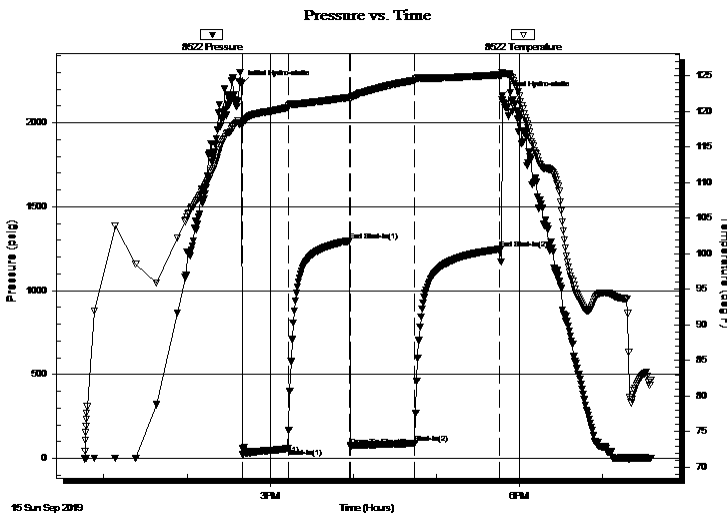
2019.09.15 @ 14:39:15

Time Off Btm:

2019.09.15 @ 17:47:30

TEST COMMENT: 30- IF: 3 1/4" blow .
45- IS: No return.
30- FF: 2 3/4" blow .
60- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.77	118.29	Initial Hydro-static
1	24.96	118.34	Open To Flow (1)
34	60.67	120.57	Shut-In(1)
78	1296.63	121.93	End Shut-In(1)
79	70.82	121.80	Open To Flow (2)
125	90.60	124.34	Shut-In(2)
186	1246.79	125.11	End Shut-In(2)
189	2161.20	125.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m (oil spots in tool)	0.99

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 67275

ATTN: Tim Priest

36 7 37 Sherman, Ks

Gaskill 1-36

Job Ticket: 64809

DST#: 1

Test Start: 2019.09.15 @ 12:46:00

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:40:00
 Time Test Ended: 19:34:30
 Interval: **4483.00 ft (KB) To 4496.00 ft (KB) (TVD)**
 Total Depth: 4496.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3439.00 ft (KB)
 3434.00 ft (CF)
 KB to GR/CF: 5.00 ft

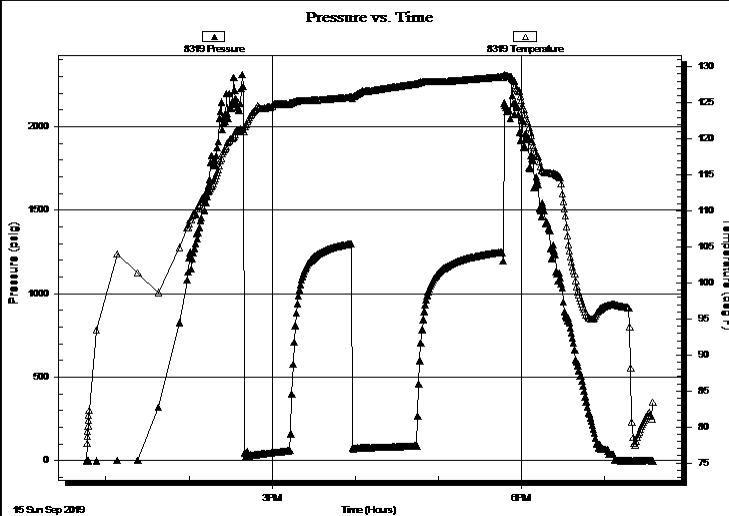
Serial #: 8319

Outside

Press@RunDepth: psig @ 4384.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.15 End Date: 2019.09.15 Last Calib.: 2019.09.15
 Start Time: 12:46:05 End Time: 19:34:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF: 3 1/4" blow .
 45- IS: No return.
 30- FF: 2 3/4" blow .
 60- FSI: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m (oil spots in tool)	0.99

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64809

DST#: 1

ATTN: Tim Priest

Test Start: 2019.09.15 @ 12:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	w cm 20w 80m (oil spots in tool)	0.993

Total Length: 150.00 ft Total Volume: 0.993 bbl

Num Fluid Samples: 0

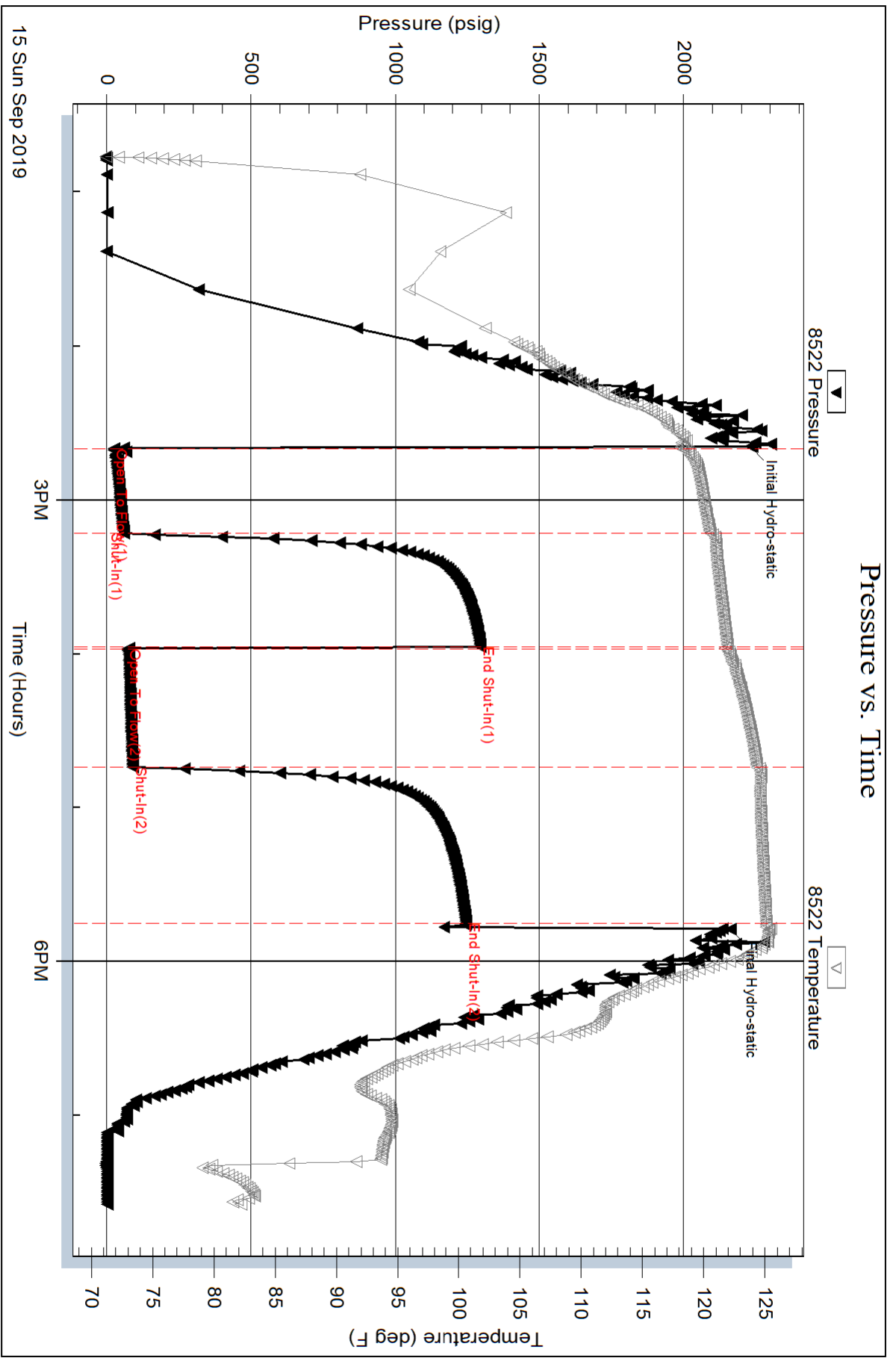
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .331 @ 86f = 19000ppm

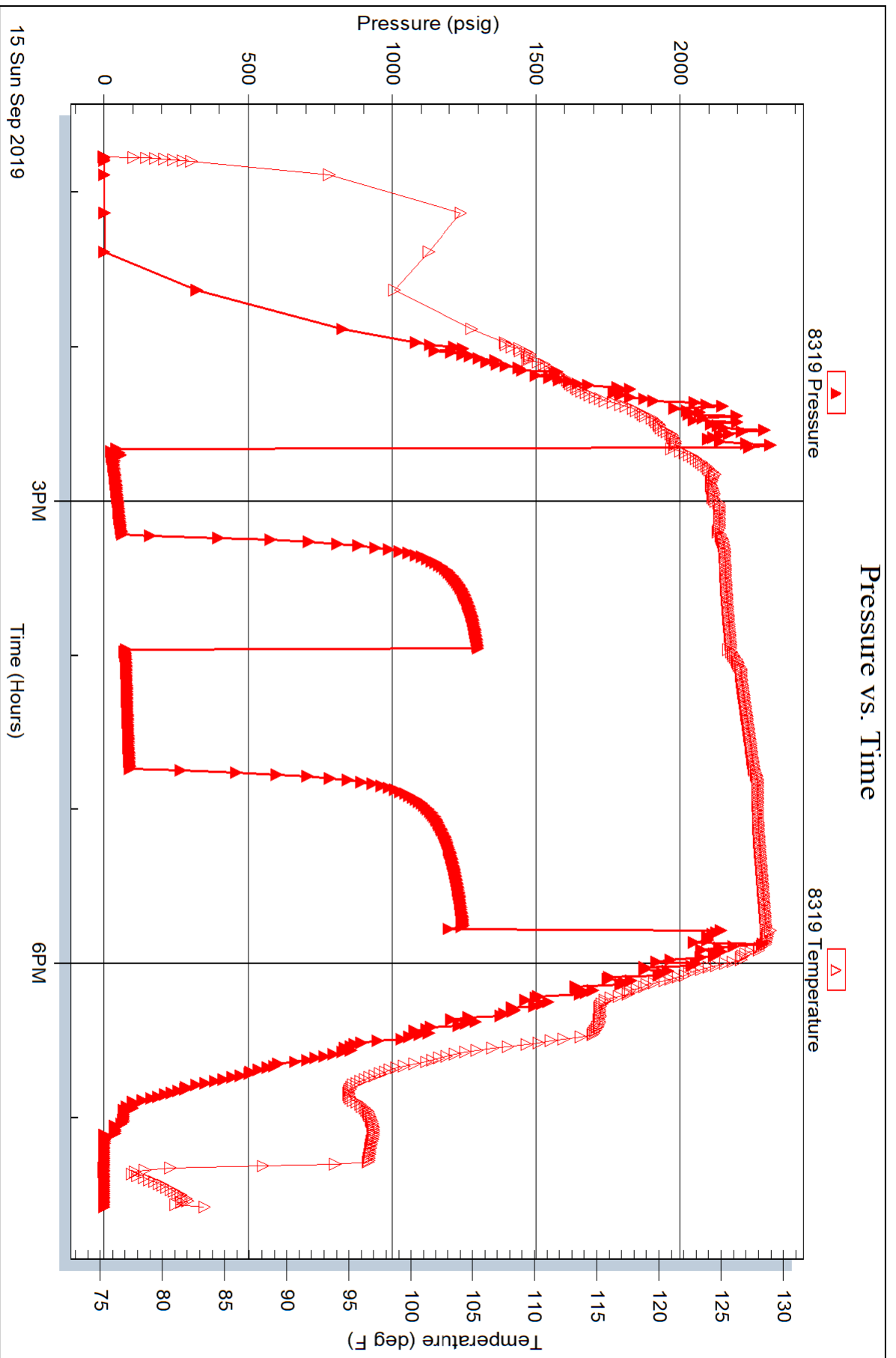


Serial #: 8319

Outside Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64809

Printed: 2019.09.15 @ 21:32:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64810

DST#: 2

ATTN: Tim Priest

Test Start: 2019.09.16 @ 19:33:00

GENERAL INFORMATION:

Formation: **Marmaton A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:45

Time Test Ended: 01:14:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4544.00 ft (KB) To 4625.00 ft (KB) (TVD)**

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4625.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522

Inside

Press@RunDepth: 26.43 psig @ 4545.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.16

End Date:

2019.09.17

Last Calib.: 2019.09.17

Start Time: 19:33:05

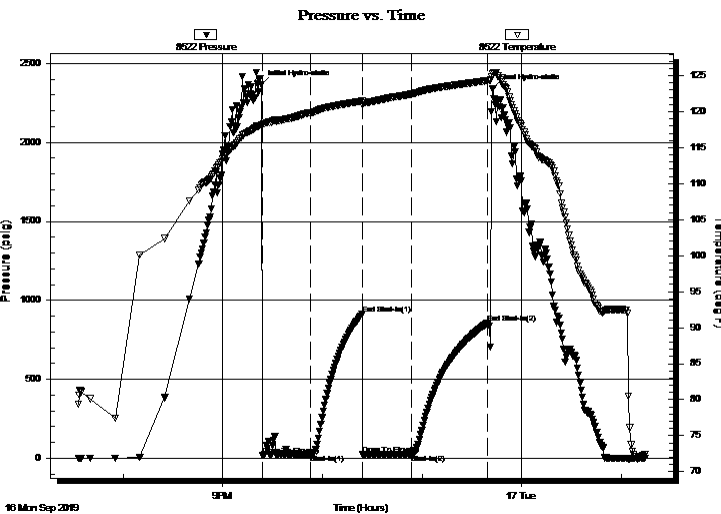
End Time:

01:14:14

Time On Btm: 2019.09.16 @ 21:23:00

Time Off Btm: 2019.09.16 @ 23:42:30

TEST COMMENT: 30- IF: 3/4" blow .
30- IS: No return.
30- FF: No blow .
45- FF: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.20	118.16	Initial Hydro-static
1	16.48	118.09	Open To Flow (1)
30	22.60	119.87	Shut-In(1)
61	911.55	121.48	End Shut-In(1)
61	24.73	120.88	Open To Flow (2)
91	26.43	122.43	Shut-In(2)
137	857.72	124.32	End Shut-In(2)
140	2342.02	125.29	Final Hydro-static

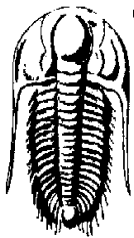
Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100m (oil spots in tool)	0.10

* 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 67275
ATTN: Tim Priest

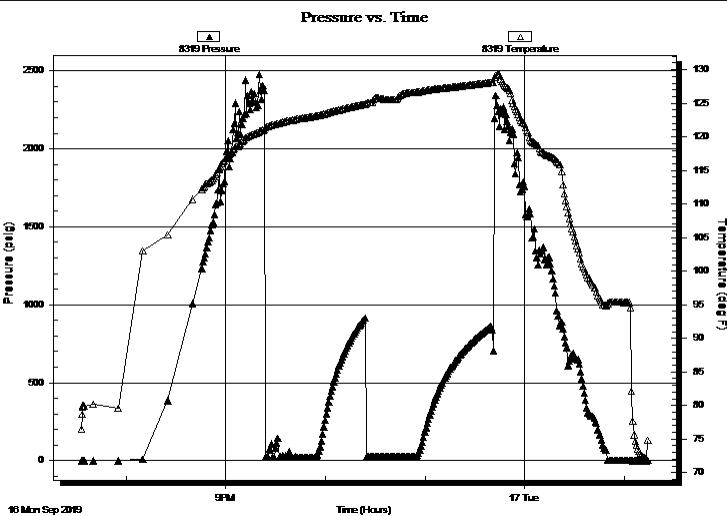
36 7 37 Sherman, Ks
Gaskill 1-36
Job Ticket: 64810 **DST#: 2**
Test Start: 2019.09.16 @ 19:33:00

GENERAL INFORMATION:

Formation: **Marmaton A-C**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 21:23:45 Tester: Bradley Walter
Time Test Ended: 01:14:15 Unit No: 78
Interval: 4544.00 ft (KB) To 4625.00 ft (KB) (TVD) Reference Elevations: 3439.00 ft (KB)
Total Depth: 4625.00 ft (KB) (TVD) 3434.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 Outside
Press@RunDepth: psig @ 4545.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.09.16 End Date: 2019.09.17 Last Calib.: 2019.09.17
Start Time: 19:33:05 End Time: 01:14:14 Time On Btm:
Time Off Btm:

TEST COMMENT: 30- IF: 3/4" blow .
30- IS: No return.
30- FF: No blow .
45- FF: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	mud 100m (oil spots in tool)	0.10

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64810

DST#: 2

ATTN: Tim Priest

Test Start: 2019.09.16 @ 19:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100m (oil spots in tool)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

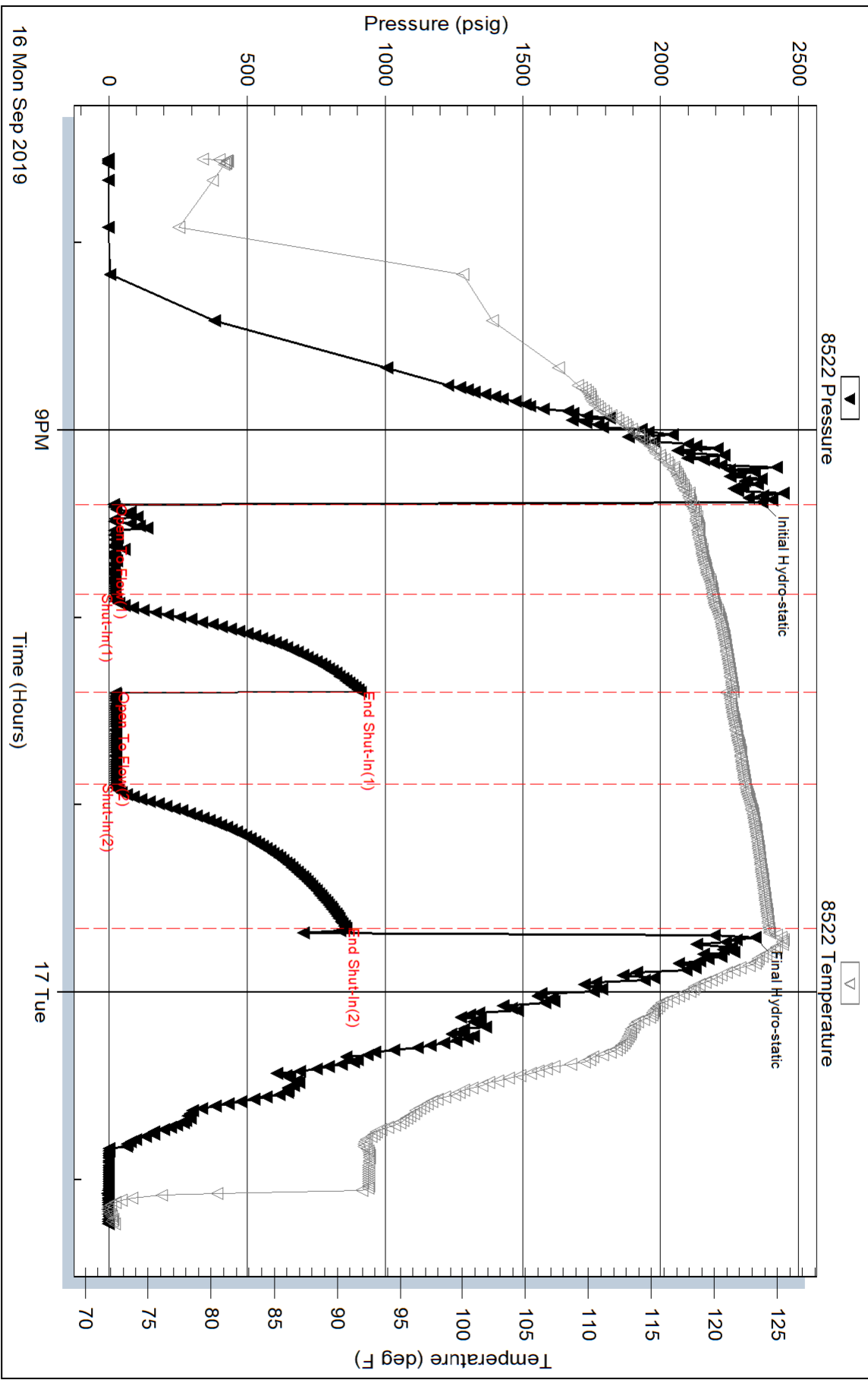
Inside

Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64810

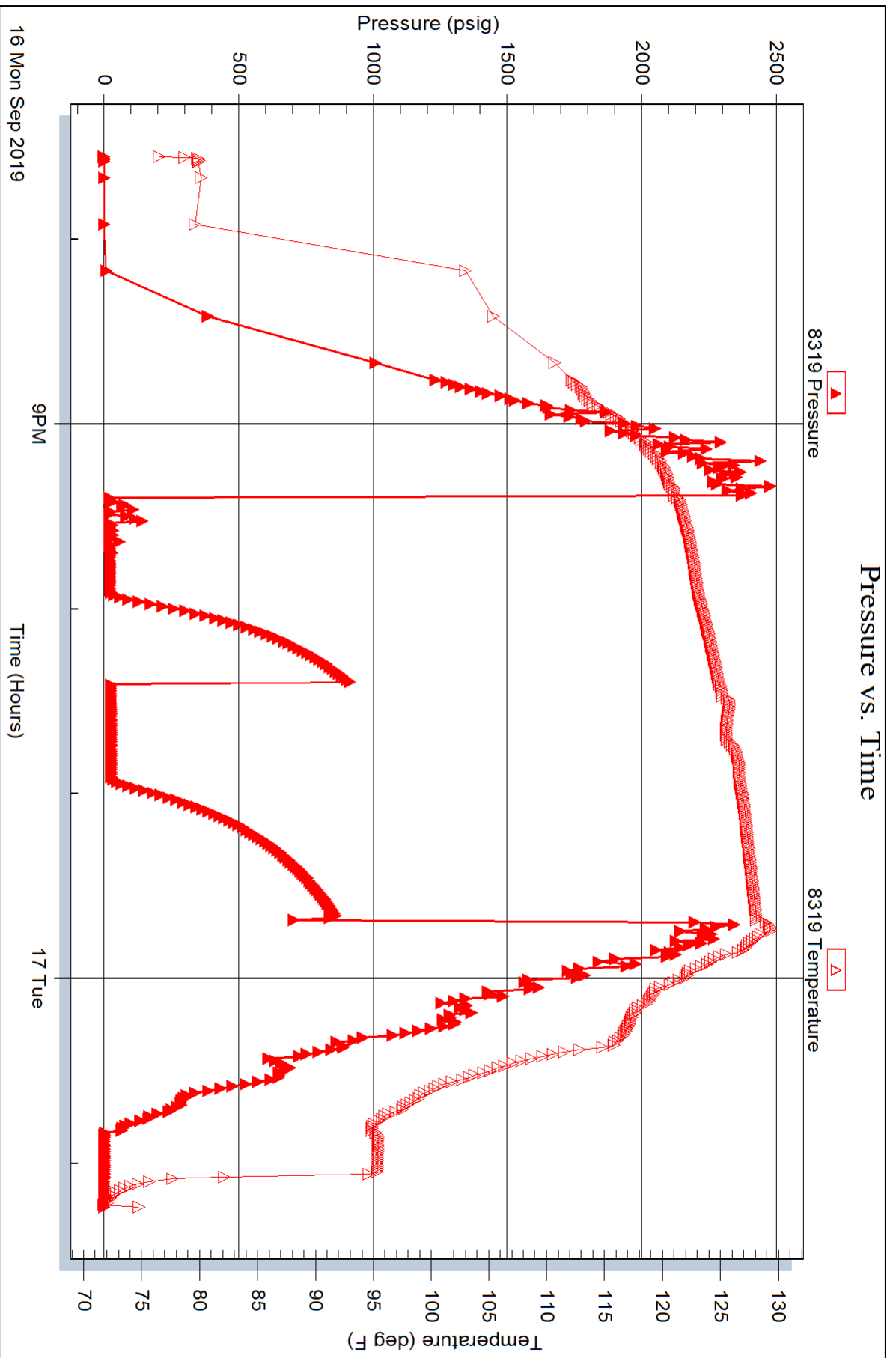
Printed: 2019.09.17 @ 07:35:20

Serial #: 8319

Outside Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64811

DST#: 3

ATTN: Tim Priest

Test Start: 2019.09.17 @ 09:46:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:00

Time Test Ended: 16:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4637.00 ft (KB) To 4665.00 ft (KB) (TVD)**

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4665.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 29.51 psig @ 4638.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.17 End Date: 2019.09.17

Last Calib.: 2019.09.17

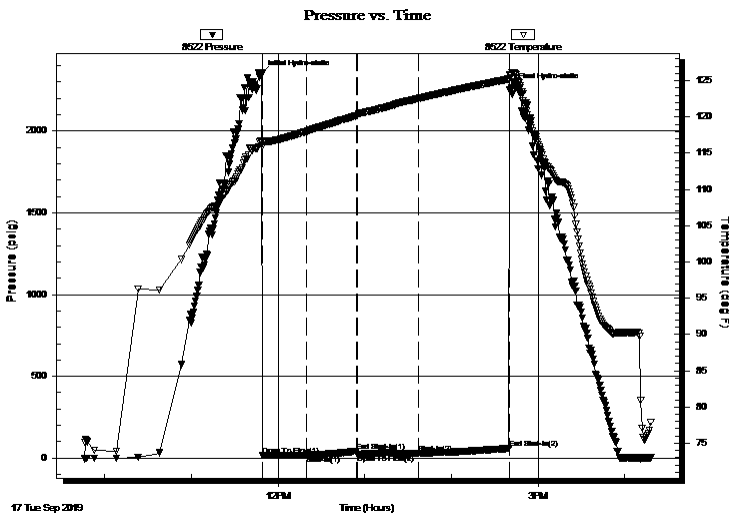
Start Time: 09:46:05 End Time: 16:18:29

Time On Btm: 2019.09.17 @ 11:48:45

Time Off Btm: 2019.09.17 @ 14:41:30

TEST COMMENT: 30- IF: 1" blow.
30- IS: No return.
45- FF: Surface blow, died and came back.
60- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.69	116.65	Initial Hydro-static
1	16.06	115.92	Open To Flow (1)
31	18.14	118.02	Shut-In(1)
66	42.54	120.17	End Shut-In(1)
66	22.75	120.20	Open To Flow (2)
109	29.51	122.56	Shut-In(2)
172	59.33	125.23	End Shut-In(2)
173	2266.94	125.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	socm 2o 98m	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64811

DST#: 3

ATTN: Tim Priest

Test Start: 2019.09.17 @ 09:46:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:00

Time Test Ended: 16:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4637.00 ft (KB) To 4665.00 ft (KB) (TVD)

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4665.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4638.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.17

End Date:

2019.09.17

Last Calib.:

2019.09.17

Start Time:

09:46:05

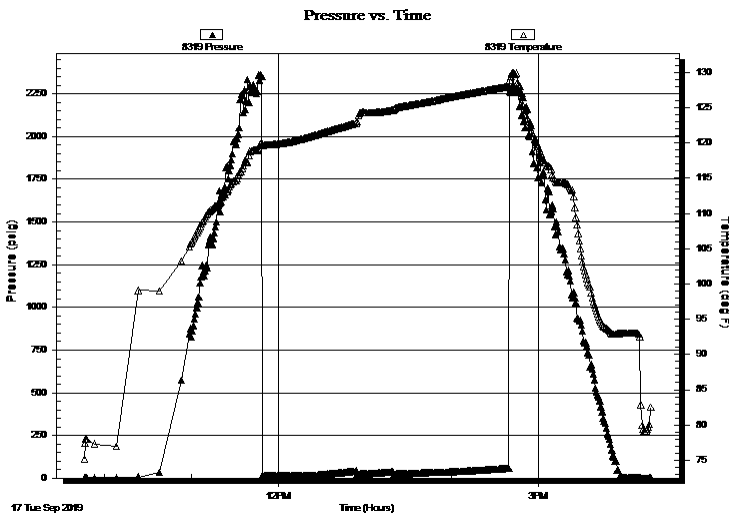
End Time:

16:18:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 1" blow.
30- IS: No return.
45- FF: Surface blow, died and came back.
60- FSI: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	socm 2o 98m	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64811

DST#: 3

ATTN: Tim Priest

Test Start: 2019.09.17 @ 09:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 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	socm 2o 98m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

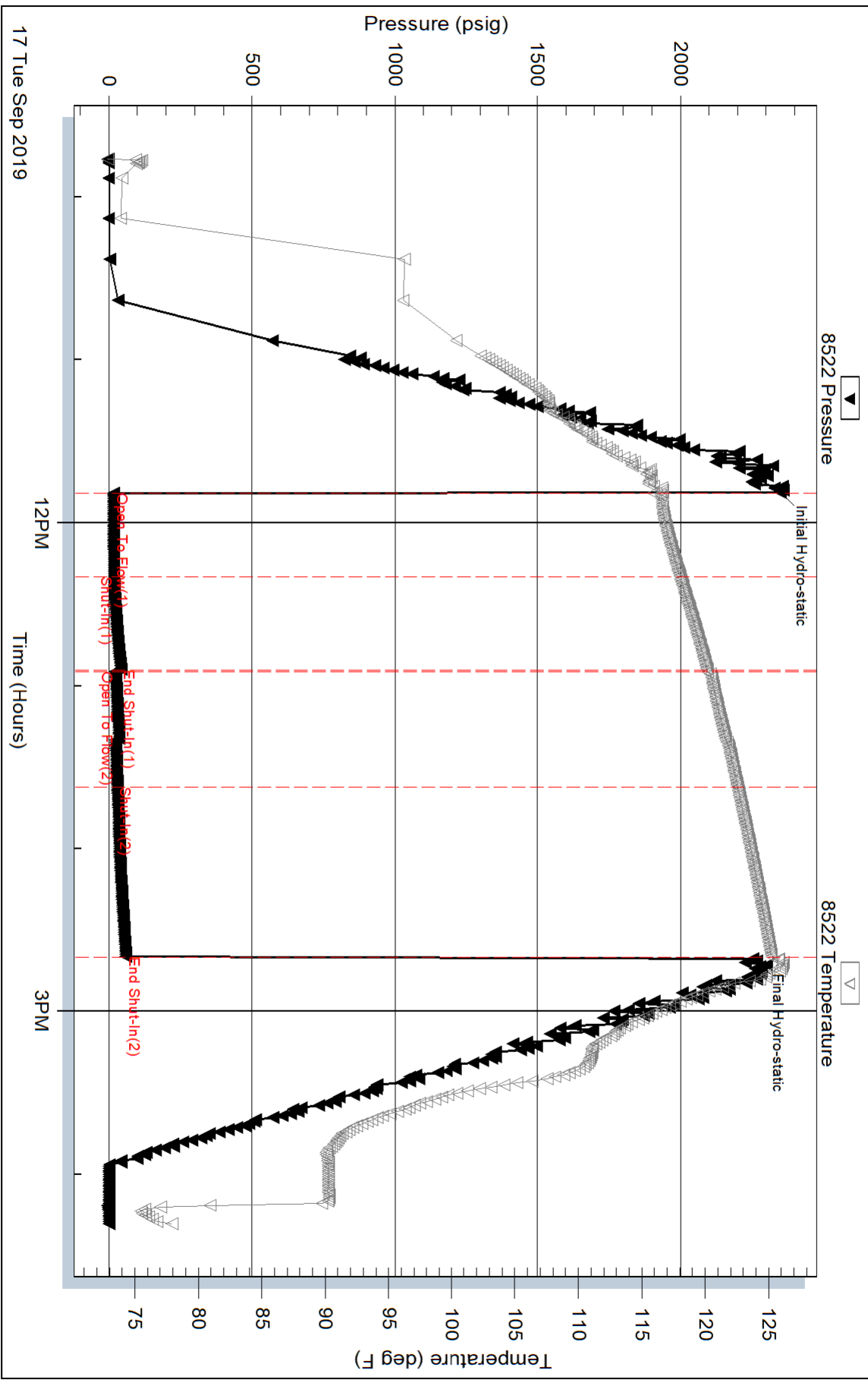
Serial #:

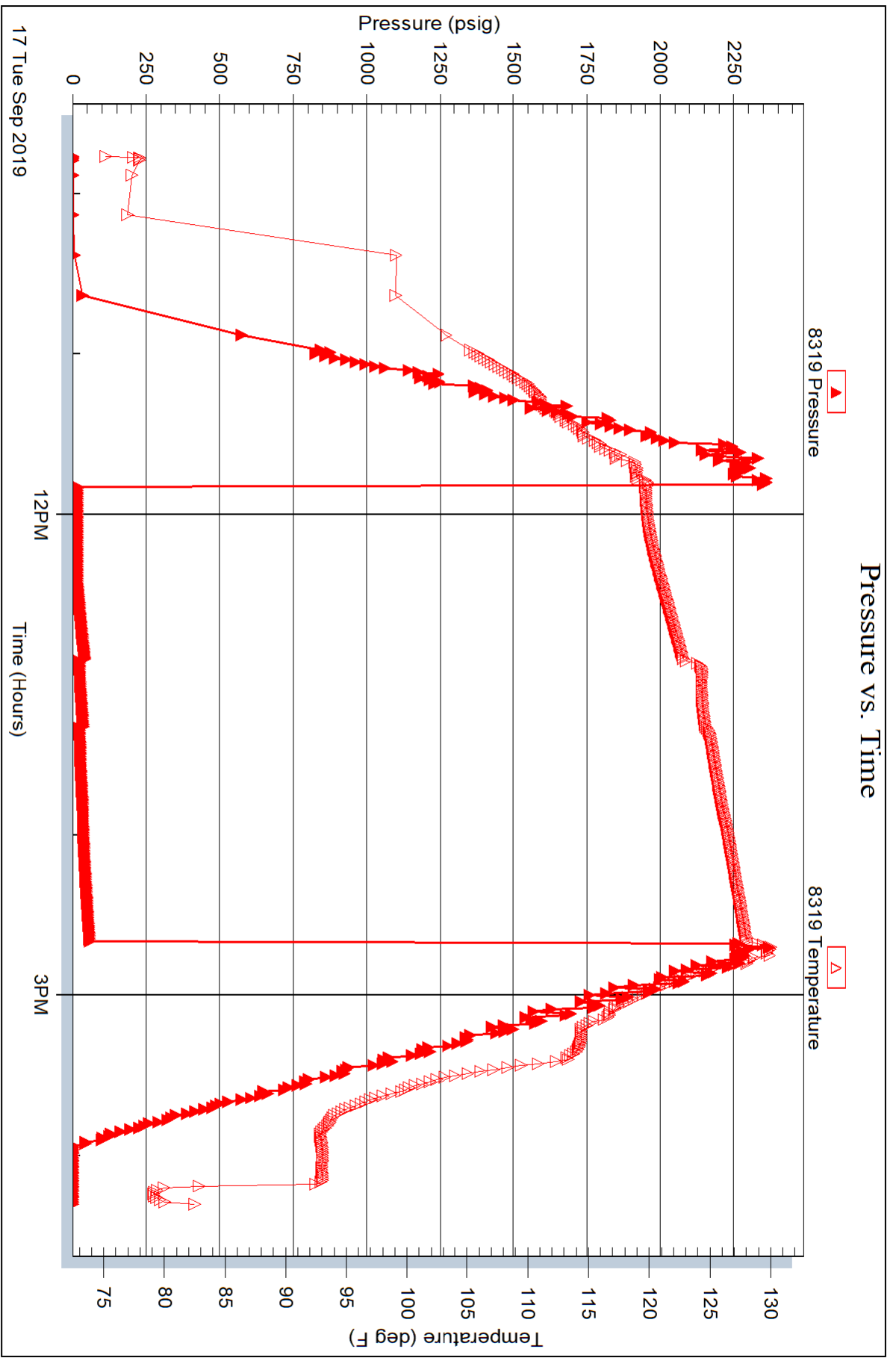
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64812

DST#: 4

ATTN: Tim Priest

Test Start: 2019.09.18 @ 06:14:00

GENERAL INFORMATION:

Formation: **Cherokee- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:45

Time Test Ended: 12:00:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4742.00 ft (KB) To 4790.00 ft (KB) (TVD)**

Reference Elevations: 3439.00 ft (KB)

Total Depth: 4790.00 ft (KB) (TVD)

3434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press@RunDepth: 18.68 psig @ 4743.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.18 End Date: 2019.09.18

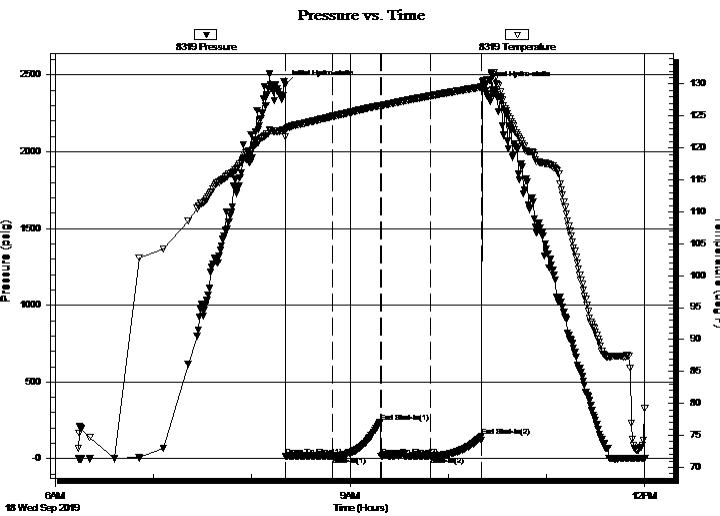
Last Calib.: 2019.09.18

Start Time: 06:14:05 End Time: 12:00:44

Time On Btm: 2019.09.18 @ 08:20:30

Time Off Btm: 2019.09.18 @ 10:21:45

TEST COMMENT: 30- IF: 3/4" blow .
30- IS: No return.
30- FF: Surface blow , died in 10 min.
30- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2435.77	122.82	Initial Hydro-static
1	17.83	121.71	Open To Flow (1)
29	19.23	124.90	Shut-In(1)
58	238.06	126.66	End Shut-In(1)
59	16.93	126.62	Open To Flow (2)
89	18.68	128.14	Shut-In(2)
120	144.48	129.52	End Shut-In(2)
122	2427.12	130.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud 100m (oil spots)	0.04

* 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 67275

ATTN: Tim Priest

36 7 37 Sherman, Ks

Gaskill 1-36

Job Ticket: 64812

DST#: 4

Test Start: 2019.09.18 @ 06:14:00

GENERAL INFORMATION:

Formation: **Cherokee- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:45

Time Test Ended: 12:00:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4742.00 ft (KB) To 4790.00 ft (KB) (TVD)

Total Depth: 4790.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3439.00 ft (KB)

3434.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: psig @ 4743.00 ft (KB)

Start Date: 2019.09.18

End Date: 2019.09.18

Start Time: 06:14:05

End Time: 12:00:44

Capacity: 8000.00 psig

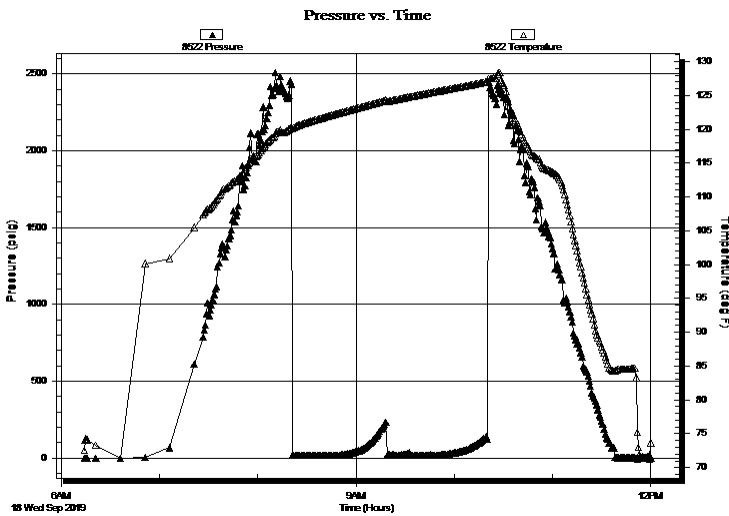
Last Calib.: 2019.09.18

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 3/4" blow .
30- IS: No return.
30- FF: Surface blow , died in 10 min.
30- FSI: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud 100m (oil spots)	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

36 7 37 Sherman, Ks

PO Box 75615
Wichita, Ks 67275

Gaskill 1-36

Job Ticket: 64812

DST#: 4

ATTN: Tim Priest

Test Start: 2019.09.18 @ 06:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud 100m (oil spots)	0.039

Total Length: 8.00 ft Total Volume: 0.039 bbl

Num Fluid Samples: 0

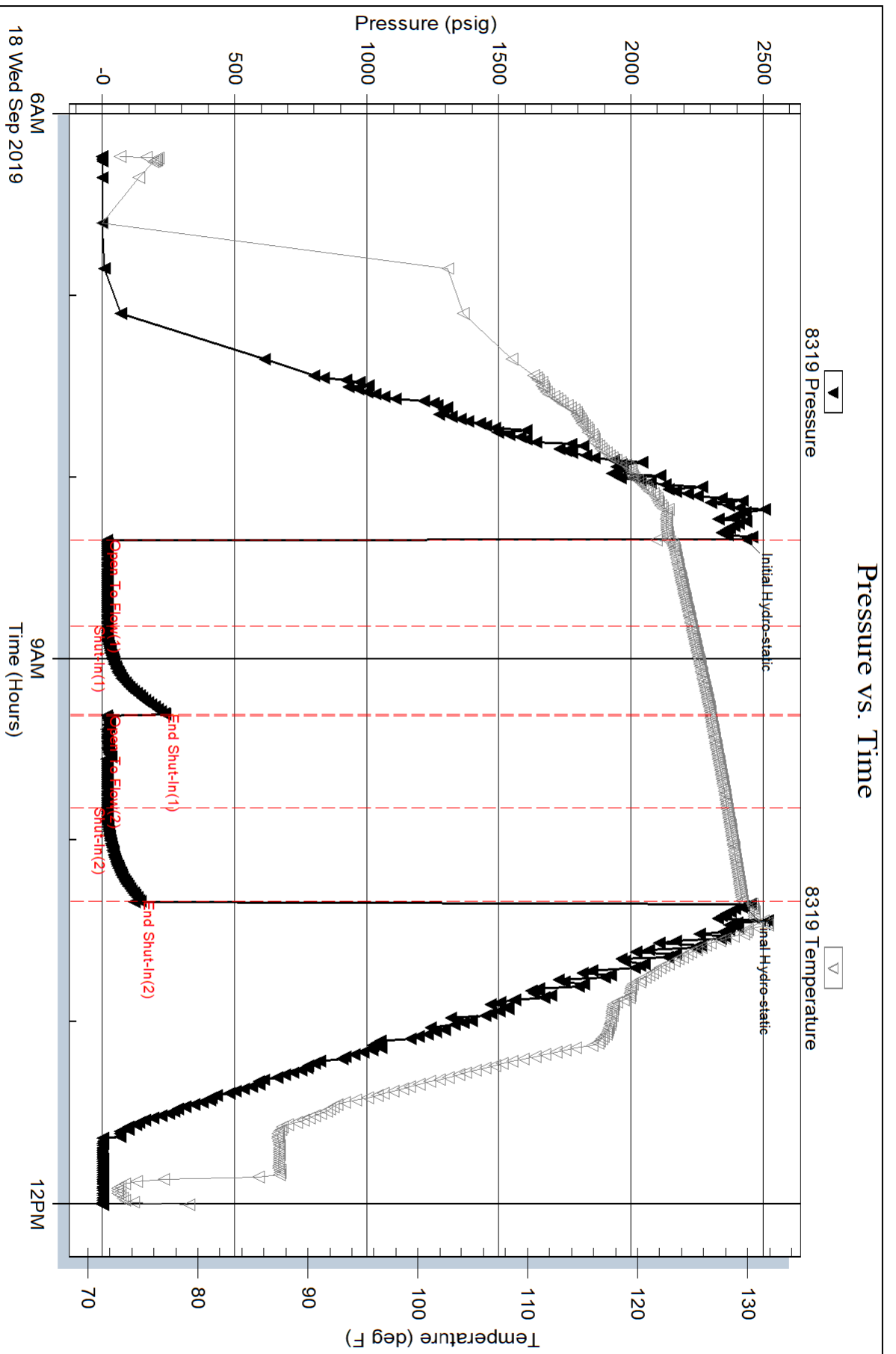
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



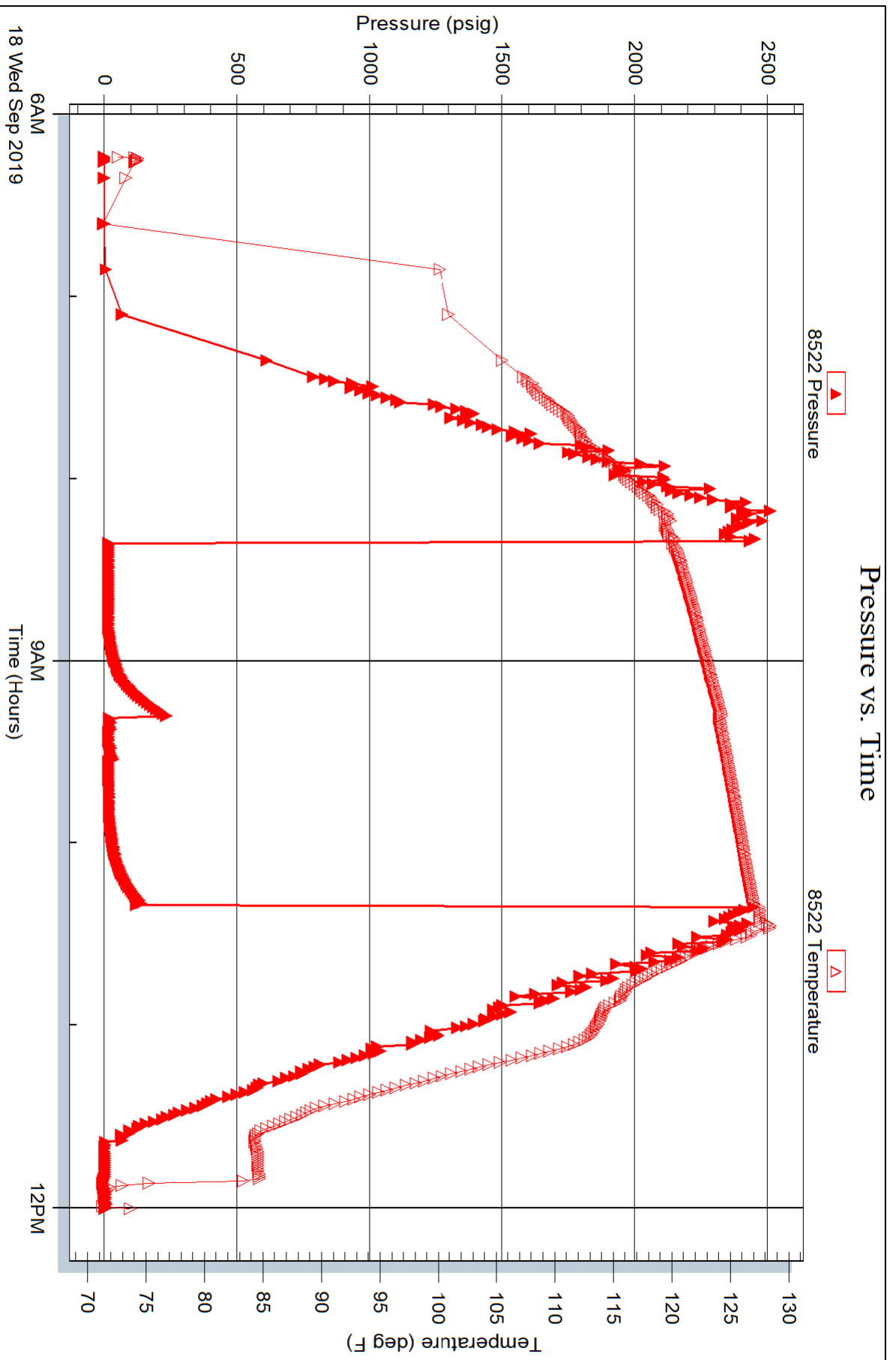
Serial #: 8522

Inside

Chizum Oil, LLC

Gaskill 1-36

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64812

Printed: 2019.09.18 @ 13:22:17